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 : Q3626

ATTENTION : David Gabel

Laboratory Certification ID # 20012

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Fax : 908 789 8922

Cover Page

Order ID : Q3626

Project ID : CHADWICK SQUARE

Client : RTP Environmental

Lab Sample Number	Client Sample Number
Q3626-01	9A-SG-1
Q3626-02	9A-SG-2
Q3626-03	9B-SG-1
Q3626-04	9B-SG-2
Q3626-05	10-SG-1
Q3626-06	11-SG-1
Q3626-07	12-SG-1
Q3626-08	12-SG-2
Q3626-09	13-SG-1
Q3626-10	14-SG-1
Q3626-11	15-SG-1
Q3626-12	16-SG-1

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

Signature : _____

Date: 11/25/2025

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. : Q3626

Client Contact Information	Bottle Order ID : **B2510051**	Courier :	1 of 12 COCs
Client ID : **RTPE01** Project ID : Air Chad Wick		Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :		
	Site Details:	Batch Certified	
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : NJ regulated	
Country :	Rush (Specify): _____ **Days**	EDD Type : Haz/Excel w/ conversion	

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 (table in excel)	TO-15			Indoor/Ambinet Air	Soil Gas		
9A-S6-1	11/11/25	1004	1104	-25	-4	70	70	-30	-8.0	10205	10682	1.4 L	25	~~VL042225.D~~ VL042492.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 : Yes

Canisters Shiped by:	Date/Time: 11/10/25	Canisters Received by:	Date/Time: 11/10/25		
Samples Relinquished by: CW	Date/Time: 11/12/25 1855	Received by:	Date/Time: 16:53		B2510051 - 10
Relinquished by:	Date/Time:	Received by:	Date/Time: 11/12/25		

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3626

Client Contact Information	Bottle Order ID : **B2510051**	Courier :	2 of 12 COCs
Client ID : **RTPE01**	Project ID : **Air** Chad Wick	Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :	Batch Certified	
	Site Details:		
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : Same as page 1	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15			Indoor/Ambinet Air	Soil Gas		
9A-SG-2	11/11/25	1022	1122	-30	-9	70	70	-30	-10.4	10512	10413	1.4 L	25	VL042492.D ~~VL042225.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 : Yes

Canisters Shiped by: Sean	Date/Time: 11/7/25	Canisters Received by:	Date/Time:	
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 11/12/25	B2510051 - 3
Relinquished by:	Date/Time:	Received by:	Date/Time: 1625	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q 3626

Client Contact Information	Bottle Order ID : **B2510051**	Courier :	3 of 12 COCs
Client ID : **RTPE01**	Project ID : **Air** (Chad Wick)	Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :	Batch Certified	
	Site Details:		
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : Same as page 1	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15				Indoor/Ambinet Air	Soil Gas		
98-SG-1	11/11/25	1048	1148	-30	-5	65	65	-30	-9.6	10694	10450	1.4 L	25	VL042492.D ~~VL042225.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 : Yes

Canisters Shiped by: Selina	Date/Time: 11/10/25	Canisters Received by:	Date/Time:		
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 11/12/25		
Relinquished by:	Date/Time:	Received by:	Date/Time: 1653		B2510051 - 5

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3626

Client Contact Information	Bottle Order ID : **B2510051**	Courier :	4 of 12 COCs
Client ID : **RTPE01**	Project ID : **Air** Chadwick	Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :	Batch Certified	
	Site Details:		
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : Same as page 1	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15			Indoor/Ambinet Air	Soil Gas		
9B-SG-2	11/12/25	834	934	-27	-3	60	60	-30	-9.6	10689	10677	1.4 L	25	VL042492.D ~~VL042225.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 : Yes

Canisters Shiped by: Sam	Date/Time: 11/18/25	Canisters Received by:	Date/Time:		
Samples Relinquished by:	Date/Time:	Received by: YB	Date/Time:	11/12/25	**B2510051 - 9**
Relinquished by:	Date/Time:	Received by:	Date/Time:	11:53	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3626

Client Contact Information	Bottle Order ID : **B2510052**	Courier :	5 of 12 COCs
Client ID : **RTPE01** Project ID : Air Chadwick.		Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :		
	Site Details:	Batch Certified	
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : Same as	
Country :	Rush (Specify): _____ **Days**	EDD Type : Page 1	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior 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-SG1	11/4/25	839	939	-30	-5	70	70	-30	-10.0	10698	10464	1.4 L	25	VL042989.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 : Swagelok

Canisters Shiped by: Sam	Date/Time: 11/10/25	Canisters Received by:	Date/Time:	
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 11/12/25	B2510052 - 3
Relinquished by:	Date/Time:	Received by:	Date/Time: 16:53	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3626

Client Contact Information	Bottle Order ID : **B2510052**	Courier :	6 of 12 COCs
Client ID : **RTPE01** Project ID : Air Chain of Cus		Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :		
	Site Details:	Batch Certified	
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : Same as page 1	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15			Indoor/Ambinet Air	Soil Gas		
11-56-1	11/11/25	912	1012	-30	-5	65	65	-30	-8.0	10557	10435	1.4 L	25	VL042989.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 : Yes

Canisters Shiped by: Sellus	Date/Time: 11/10/25	Canisters Received by:	Date/Time:		
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 11/12/25	**B2510052 - 2**	
Relinquished by:	Date/Time:	Received by:	Date/Time: 16:53		

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3626

Client Contact Information	Bottle Order ID : **B2510051**	Courier :	7 of 12 COCs
Client ID : **RTPE01**	Project ID : Air Chadwick	Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :	Batch Certified	
	Site Details:		
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : Same as Page 1	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15			Indoor/Ambinet Air	Soil Gas		
12-56	11/11/25	1215	~~1315~~	-28	-4	65	65	-30	-10.8	10569	10471	1.4 L	25	VL042492.D ~~VL042225.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 : Yes

Canisters Shiped by: Sam	Date/Time: 11/10/25	Canisters Received by:	Date/Time:	B2510051 - 6
Samples Relinquished by:	Date/Time:	Received by: YB	Date/Time: 11/12/25	
Relinquished by:	Date/Time:	Received by:	Date/Time: 16:53	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3626

Client Contact Information	Bottle Order ID : **B2510051**	Courier :	8 of 12 COCs
Client ID : **RTPE01** Project ID : **Air** Chad Wick		Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :		
	Site Details:	Batch Certified	
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : Same as Page 1	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15			Indoor/Ambinet Air	Soil Gas		
12-56-2	11/6/25	1213	1313	-30	-8	65	65	**-30**	-10.8	**10165**	**10046**	**1.4 L**	**25**	VL042492.D ~~VL042225.D~~	X			X	X		

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : Yes

Canisters Shiped by:	Date/Time: 11/10/25	Canisters Received by:	Date/Time:		
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 11/12/25		**B2510051 - 1**
Relinquished by:	Date/Time:	Received by:	Date/Time: 1625		

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q 3626

Client Contact Information	Bottle Order ID : **B2510051**	Courier :	9 of 12 COCs
Client ID : **RTPE01** Project ID : **Air** Chadwick		Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :		
	Site Details:	Batch Certified	
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time	5 canisters	
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : Page 1	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15				Indoor/Ambinet Air	Soil Gas		
13-56-1	11/6/25	1241	1541	-30	-9	70	70	**-30**	-10.8	**10623**	**10673**	**1.4 L**	**25**	VL042492.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 : Yes

Canisters Shiped by: Sean	Date/Time: 11/10/25	Canisters Received by:	Date/Time:	**B2510051 - 8**
Samples Relinquished by:	Date/Time:	Received by: YS	Date/Time: 11/12/25	
Relinquished by:	Date/Time:	Received by:	Date/Time: 1625	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3626

Client Contact Information	Bottle Order ID : **B2510051**	Courier :	10 of 13 COCs
Client ID : **RTPE01**	Project ID : ~~Air~~ Chadwick	Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :	Batch Certified	
	Site Details:		
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : Same as page 1.	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
14-56-1	11/12/25	924	1024	-27	-5	65	65	-30	-7.5	10475	~~10418~~ 10416	1.4 L	25	VL042492.D ~~VL042225.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 : Yes

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

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3626

Client Contact Information	Bottle Order ID : **B2510051**	Courier :	11 of 12 COCs
Client ID : **RTPE01** Project ID : **Air** Chadwick		Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :		
	Site Details:	Batch Certified	
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : Same as page 1.	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15			Indoor/Ambinet Air	Soil Gas		
15-36-1	11/12/25	1006	1106	-30	-6	65	65	-30	-10.4	10242	10123	1.4 L	25	VL042989.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 : Yes

Canisters Shiped by: Sam	Date/Time: 11/10/25	Canisters Received by:	Date/Time:		
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 11/12/25		B2510051 - 2
Relinquished by:	Date/Time:	Received by:	Date/Time: 16:53		

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3626

Client Contact Information	Bottle Order ID : **B2510051**	Courier :	12 of 12 COCs
Client ID : **RTPE01**	Project ID : Air Chadwick.	Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :	Batch Certified	
	Site Details:		
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : Same as past.	
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-SG-1	11/12/25	903	1003	-30	-4	70	70	-30	-9.2	10518	10794 ~~20416~~		1.4 L	25	VL042492.D ~~VL042225.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 : Yes

Canisters Shiped by: Sean	Date/Time: 11/10/25	Canisters Received by:	Date/Time:		
Samples Relinquished by:	Date/Time:	Received by: YS	Date/Time:	11/12/25	B2510051 - 4
Relinquished by:	Date/Time:	Received by:	Date/Time:	16:53	

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
Location: 284 Sheffield Street, Mountainside, NJ 7092
~~NAME~~:
Title: Sample Custodian
Field Sample Seal No.: Q3626
Date Broken: 11/12/2025
Military Time Seal Broken: 16:53:00
Case No.: CHADWICK SQUARE
Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3626-01	9A-SG-1	Q3626-11	15-SG-1
Q3626-02	9A-SG-2	Q3626-12	16-SG-1
Q3626-03	9B-SG-1		
Q3626-04	9B-SG-2		
Q3626-05	10-SG-1		
Q3626-06	11-SG-1		
Q3626-07	12-SG-1		
Q3626-08	12-SG-2		
Q3626-09	13-SG-1		
Q3626-10	14-SG-1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
11/13/25	11:06	Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

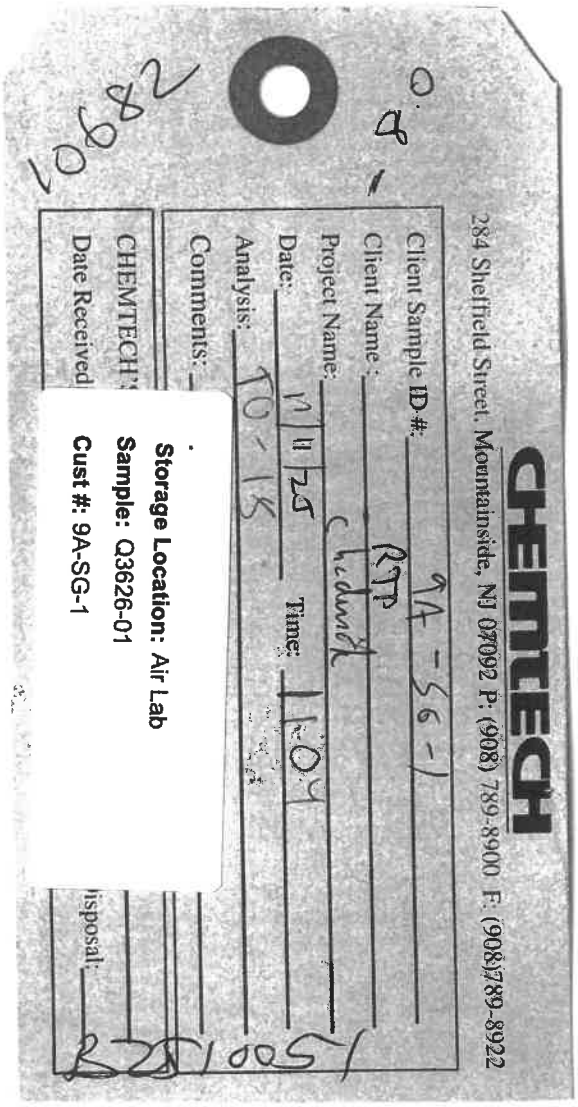
CHEMTECH 284 Sheffield Street Mountainside, NJ 07092

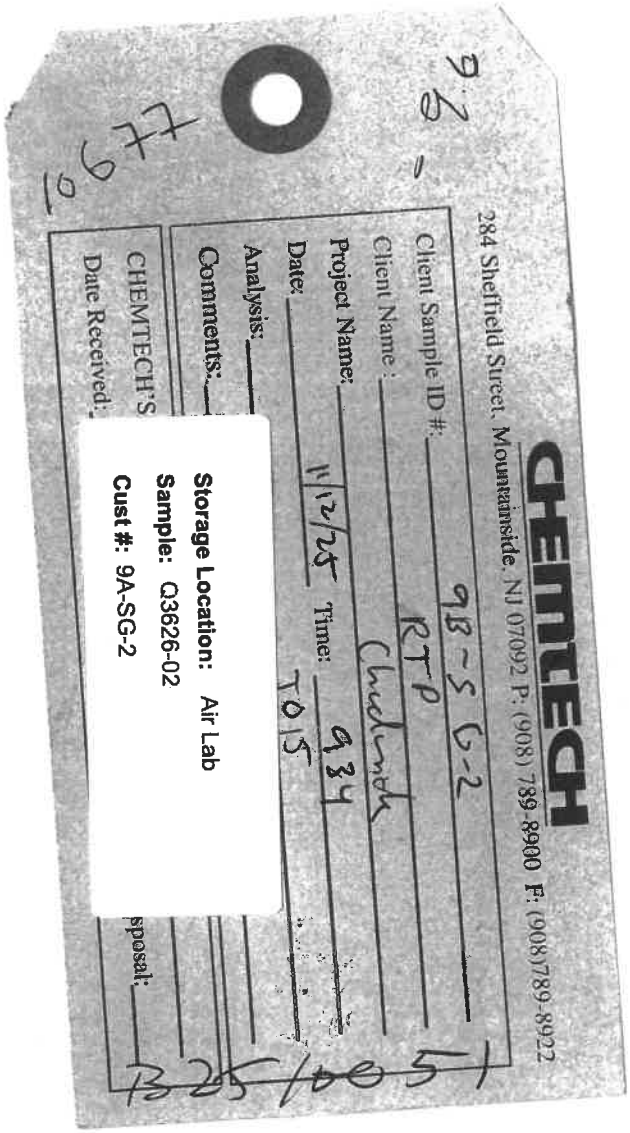
AIR SAMPLE PRESSURE & DILUTION LOGBOOK

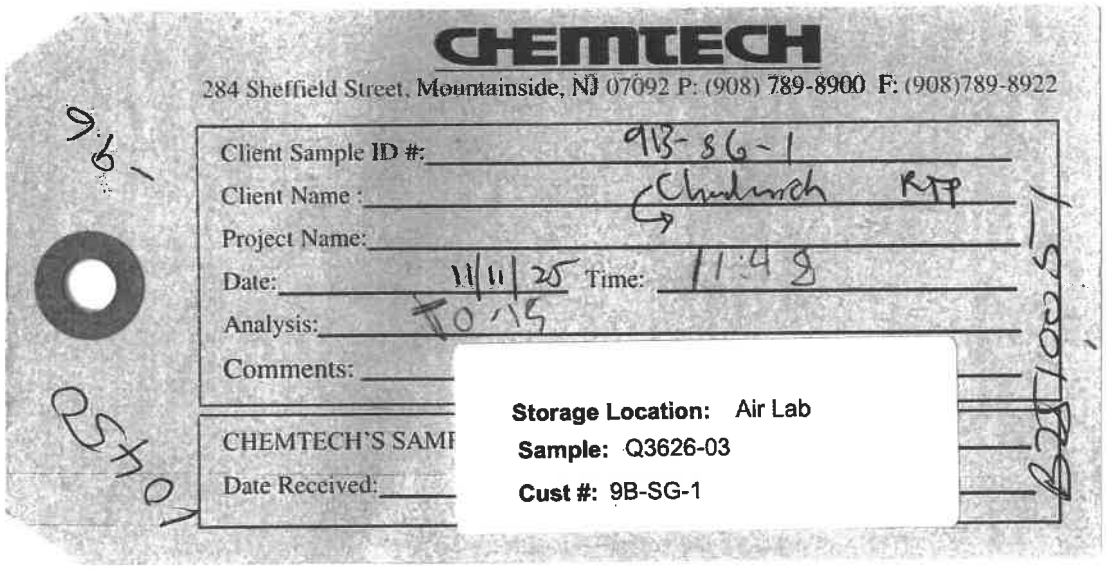
Analyst Signature: _____ Supervisor Signature: _____

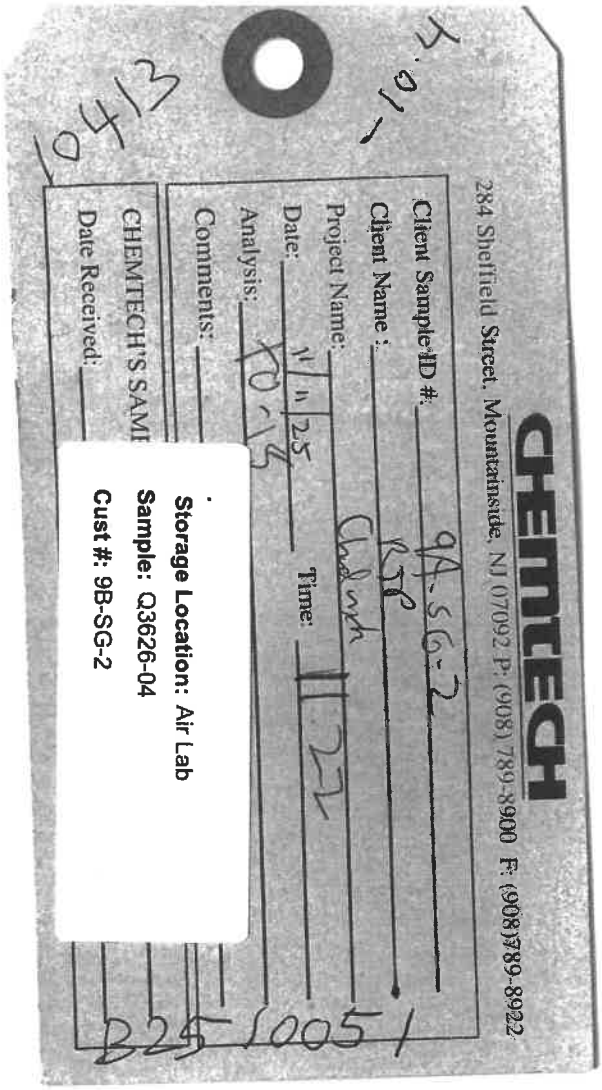
METHOD: TO-15 Pressure Gauge ID: AZ 55971

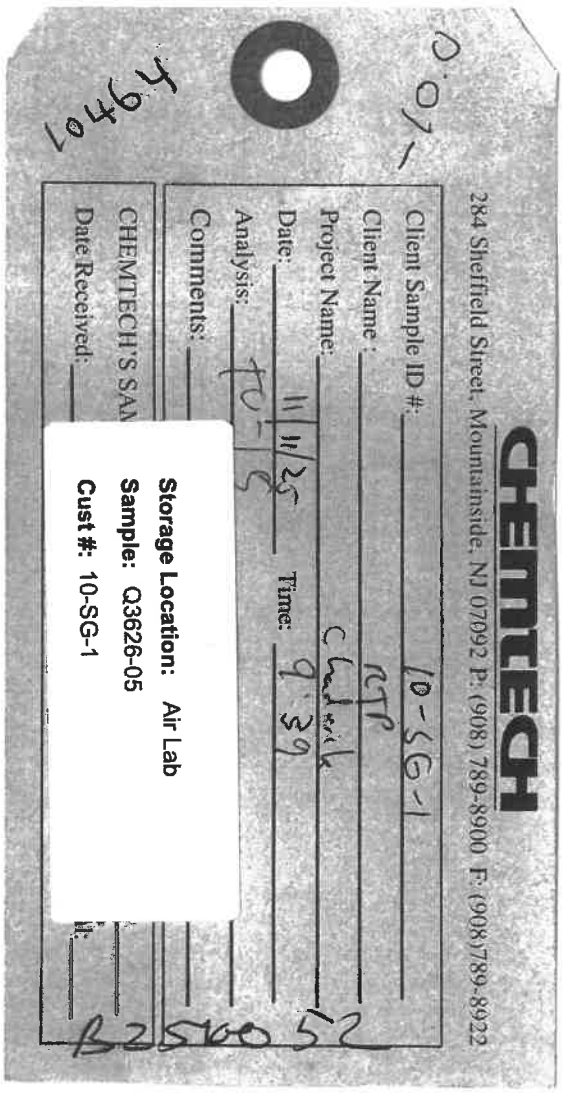
Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
11/10/25	Q3594-01	10595	13.6	-2.2				SV
11/11/25	Q3626-01	10682	10.8	-8.0				SV
11/12/25	Q3626-02	10413	9.6	-10.4				
	Q3626-03	10450	10.0	-9.6				
	Q3626-04	10677	10.0	-9.6				
	Q3626-05	10464	9.8	-10.0				
	Q3626-06	10435	10.8	-8.0				
	Q3626-07	10471	9.4	-10.8				
	Q3626-08	10446	9.4	-10.8				
	Q3626-09	10673	9.4	-10.8				
	Q3626-10	10416	11.0	-7.5				
	Q3626-11	10123	9.6	-10.4				
	Q3626-12	10794	10.2	-9.2				
11/12/25	Q3627-01	10608	10.8	-8.0				
	Q3627-02	10321	11.4	-6.7				
	Q3627-03	10590	13.4	-2.7				
	Q3627-04	10650	9.2	-11.2				
	Q3627-05	10793	9.6	-10.4				

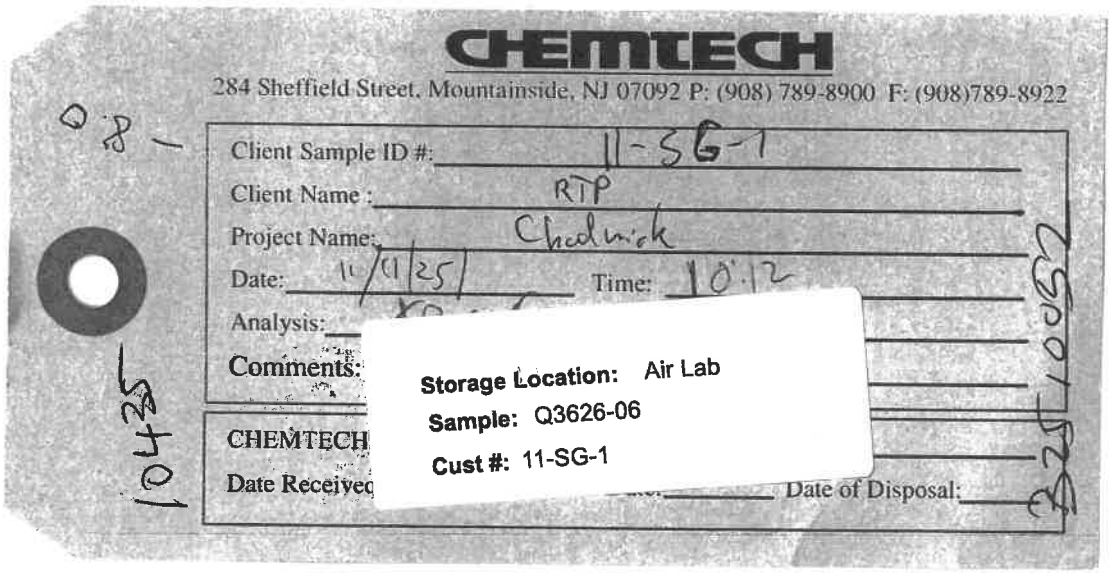

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 9A-SG-1
Client Name: Chadwick RTP
Project Name:
Date: 11/11/25 Time: 1109
Analysis: TO-15
Comments:
CHEMTECH'S SAMPLE #:
Date Received:
Disposal:
B251005-1
Storage Location: Air Lab
Sample: Q3626-01
Cust #: 9A-SG-1

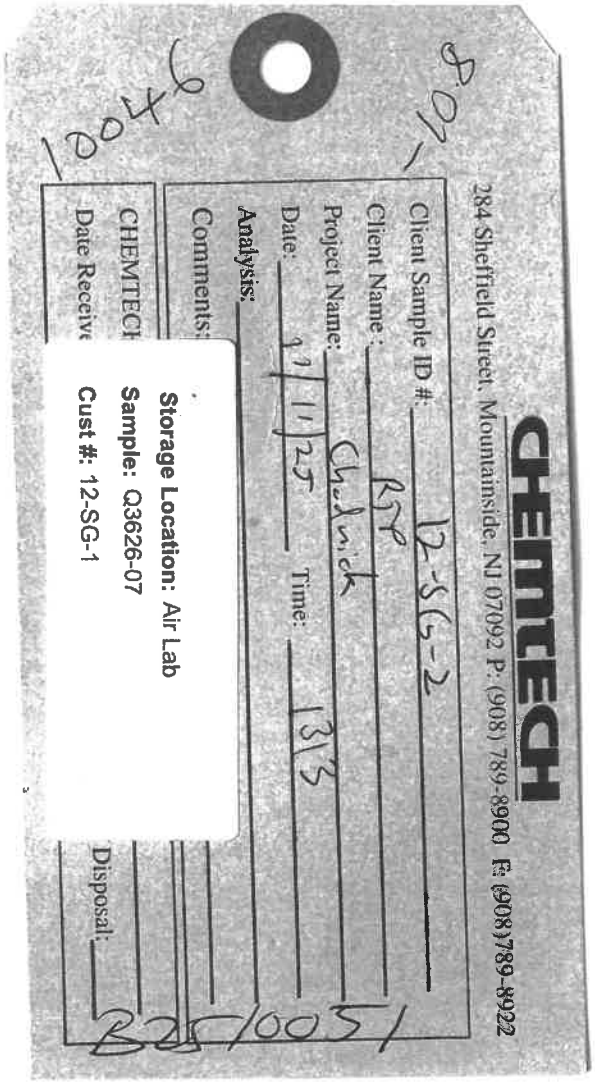

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 9B-SG-2
Client Name: RTP Chadwick
Project Name:
Date: 11/12/25 Time: 934
Analysis: TO15
Comments:
CHEMTECH'S
Date Received:
Disposal:
B251005-1
Storage Location: Air Lab
Sample: Q3626-02
Cust #: 9A-SG-2

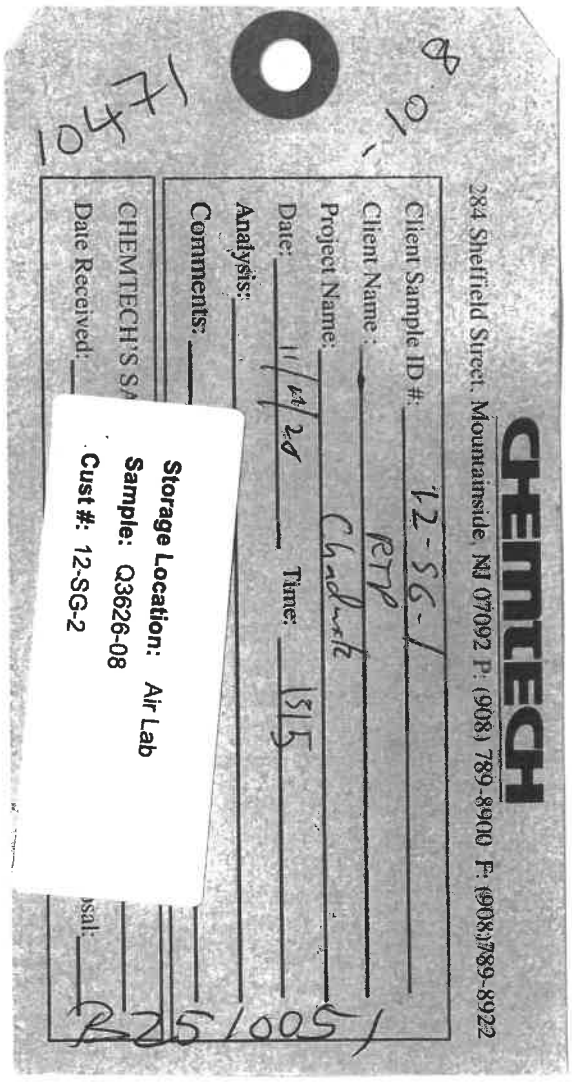

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 9B-SG-1
Client Name: Chadwick RTP
Project Name:
Date: 11/11/25 Time: 1148
Analysis: TO-15
Comments:
CHEMTECH'S SAMPLE #:
Date Received:
B251005-1
Storage Location: Air Lab
Sample: Q3626-03
Cust #: 9B-SG-1

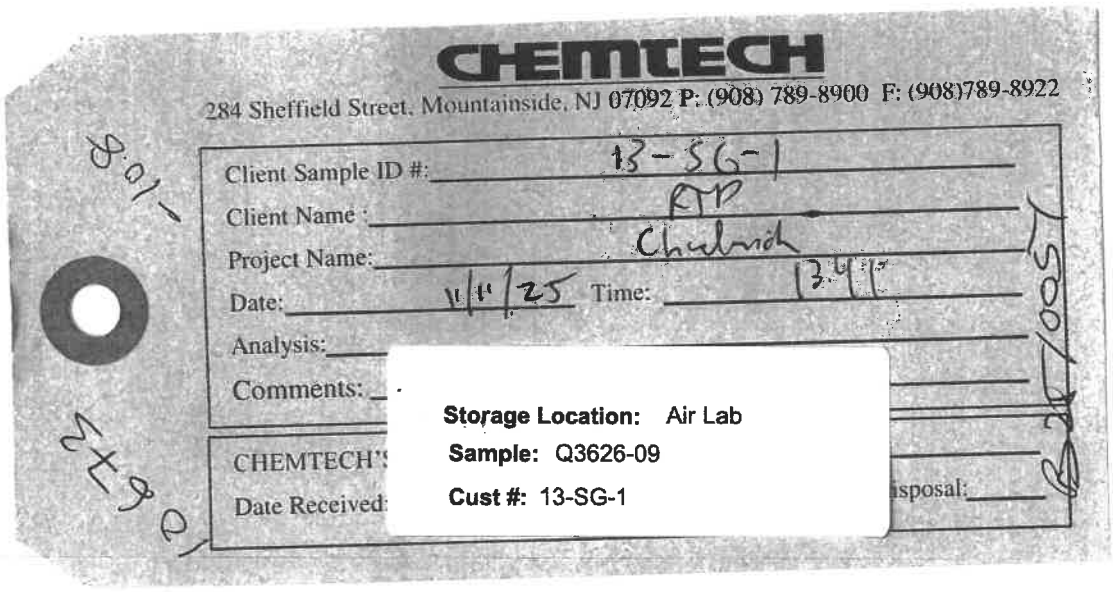

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 9A-SG-2
Client Name : RTP
Project Name: Chadwick
Date: 11/11/25 Time: 11:22
Analysis: TO-15
Comments:
CHEMTECH'S SAMPLE #:
Date Received:
Storage Location: Air Lab
Sample: Q3626-04
Cust #: 9B-SG-2

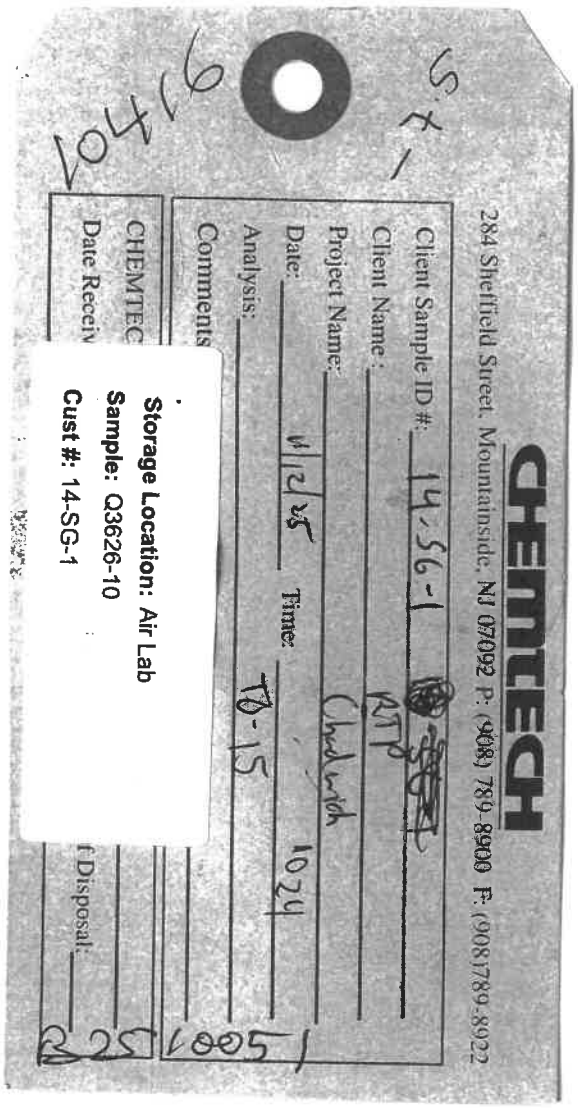

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 10-SG-1
Client Name : RTP
Project Name: Chadwick
Date: 11/11/25 Time: 9:39
Analysis: TO-15
Comments:
CHEMTECH'S SAMPLE #:
Date Received:
Storage Location: Air Lab
Sample: Q3626-05
Cust #: 10-SG-1

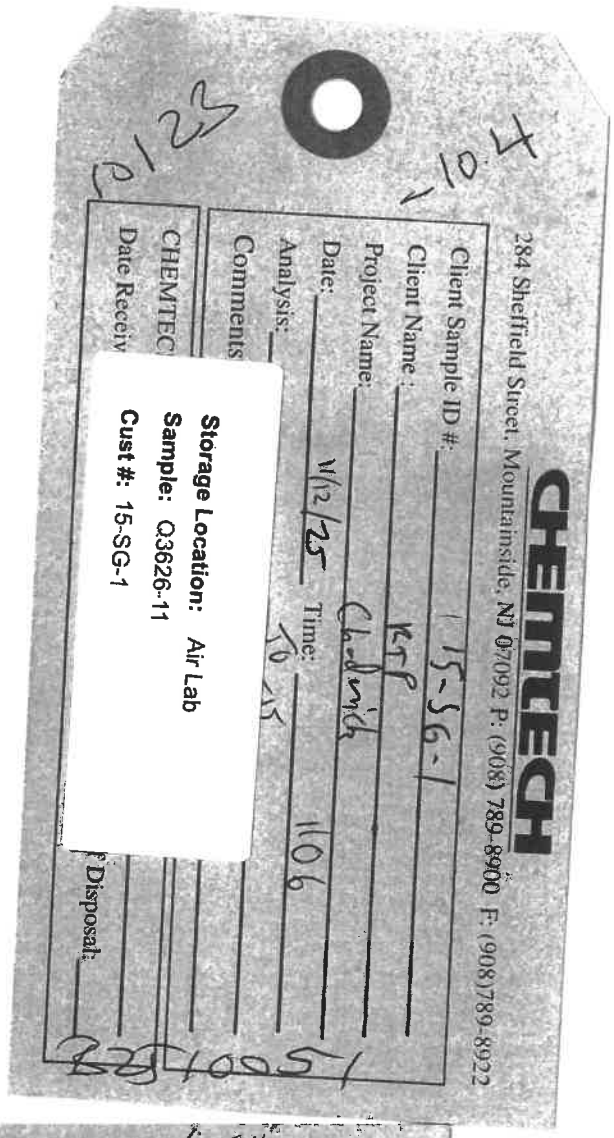

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 11-SG-1
Client Name : RTP
Project Name: Chadwick
Date: 11/11/25 Time: 10:12
Analysis:
Comments:
CHEMTECH
Date Received:
Date of Disposal:
Storage Location: Air Lab
Sample: Q3626-06
Cust #: 11-SG-1

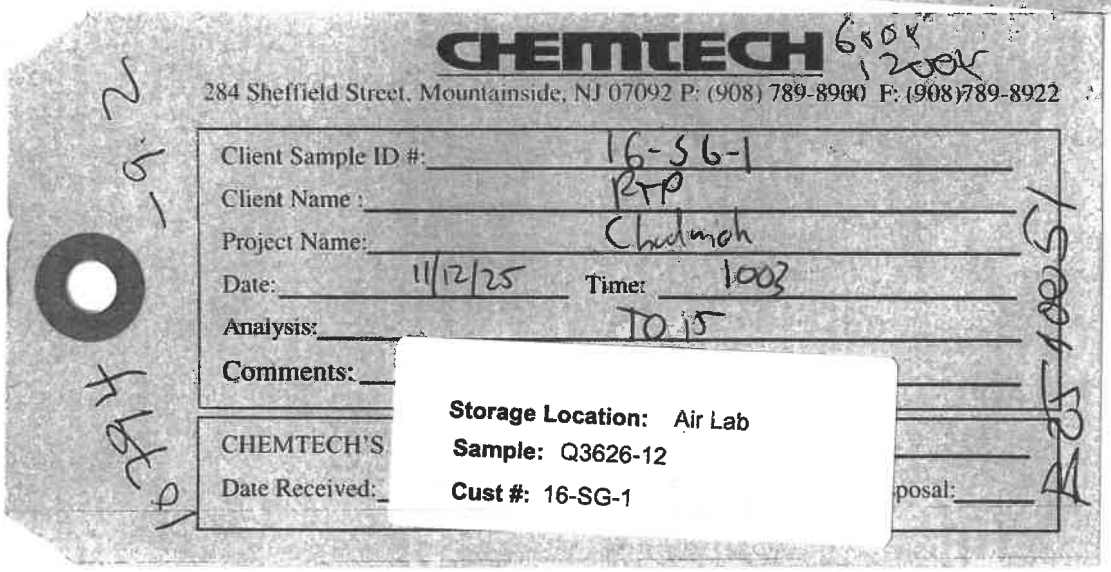

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 12-SG-2
Client Name: RTP
Project Name: Chadwick
Date: 11/12/25 Time: 1315
Analysis:
Comments:
CHEMTECH'S
Date Received:
Disposal:
B251005-1
Storage Location: Air Lab
Sample: Q3626-07
Cust #: 12-SG-1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 12-SG-1
Client Name: RTP
Project Name: Chadwick
Date: 11/12/25 Time: 1315
Analysis:
Comments:
CHEMTECH'S SA
Date Received:
sal:
B251005-1
Storage Location: Air Lab
Sample: Q3626-08
Cust #: 12-SG-2


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 13-SG-1
Client Name: RTP
Project Name: Chadwick
Date: 11/12/25 Time: 1300
Analysis:
Comments:
CHEMTECH'S
Date Received:
isposal:
Storage Location: Air Lab
Sample: Q3626-09
Cust #: 13-SG-1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 14-56-1
Client Name: RTP
Project Name: Chadwick
Date: 11/12/25 Time: 1024
Analysis: TO-15
Comments:
CHEMTEC
Date Receiv
Disposal:
Storage Location: Air Lab
Sample: Q3626-10
Cust #: 14-SG-1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 15-56-1
Client Name: RTP
Project Name: Chadwick
Date: 11/12/25 Time: 1106
Analysis: TO-15
Comments:
CHEMTEC
Date Receiv
Disposal:
Storage Location: Air Lab
Sample: Q3626-11
Cust #: 15-SG-1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 16-56-1
Client Name: RTP
Project Name: Chadwick
Date: 11/12/25 Time: 1003
Analysis: TO-15
Comments:
CHEMTECH'S
Date Received:
posal:
Storage Location: Air Lab
Sample: Q3626-12
Cust #: 16-SG-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 # Q3626
Test Name: TO-15

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

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

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

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

The RPD for {Q3626-02DUP} with File ID: VL043249.D met criteria except for Hexane[100%], Methylene Chloride[100%] and Toluene[200%] 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.

Due to potential high concentration of target analytes, Samples 9A-SG-1, 9A-SG-2, 9B-SG-1, 9B-SG-2, 10-SG-1, 11-SG-1, 12-SG-1, 12-SG-2, 13-SG-1, 14-SG-1, 15-SG-1 and 16-SG-1 were initially diluted.

Samples 9A-SG-1, 9B-SG-2, 10-SG-1, 12-SG-2, 13-SG-1, 15-SG-1, 16-SG-1 and 16-SG-1DL were diluted due to high concentrations.

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E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.
The Sample # 9A-SG-1, 9A-SG-1DL, 9A-SG-2, 9B-SG-1, 9B-SG-2, 9B-SG-2DL, 10-SG-1, 11-SG-1, 12-SG-1, 12-SG-2, 12-SG-2DL, 13-SG-1, 14-SG-1, 15-SG-1, 16-SG-1 and 16-SG-1DL have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

F. Manual Integration Comments:

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

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

Signature_____

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3626

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

QA Review Signature: MOHAMMAD AHMED **Date:** 11/25/2025

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

LAB CHRONICLE

OrderID:	Q3626	**OrderDate:**	11/13/2025 9:55:00 AM
Client:	RTP Environmental	**Project:**	CHADWICK SQUARE
Contact:	David Gabel	**Location:**	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3626-01	**9A-SG-1**	**Air**			**11/11/25**			**11/12/25**
			TO-15	TO-15			11/19/25	
Q3626-01DL	**9A-SG-1DL**	**Air**			**11/11/25**			**11/12/25**
			TO-15	TO-15			11/19/25	
Q3626-02	**9A-SG-2**	**Air**			**11/11/25**			**11/12/25**
			TO-15	TO-15			11/19/25	
Q3626-03	**9B-SG-1**	**Air**			**11/11/25**			**11/12/25**
			TO-15	TO-15			11/19/25	
Q3626-04	**9B-SG-2**	**Air**			**11/12/25**			**11/12/25**
			TO-15	TO-15			11/19/25	
Q3626-04DL	**9B-SG-2DL**	**Air**			**11/12/25**			**11/12/25**
			TO-15	TO-15			11/19/25	
Q3626-05	**10-SG-1**	**Air**			**11/11/25**			**11/12/25**
			TO-15	TO-15			11/19/25	
Q3626-05DL	**10-SG-1DL**	**Air**			**11/11/25**			**11/12/25**
			TO-15	TO-15			11/19/25	
Q3626-06	**11-SG-1**	**Air**			**11/11/25**			**11/12/25**
			TO-15	TO-15			11/19/25	
Q3626-07	**12-SG-1**	**Air**			**11/11/25**			**11/12/25**
			TO-15	TO-15			11/19/25	
Q3626-08	**12-SG-2**	**Air**			**11/11/25**			**11/12/25**
			TO-15	TO-15			11/19/25	
Q3626-08DL	**12-SG-2DL**	**Air**			**11/11/25**			**11/12/25**

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			TO-15	TO-15		11/19/25	
Q3626-09	**13-SG-1**	**Air**			**11/11/25**		**11/12/25**
			TO-15	TO-15		11/19/25	
Q3626-09DL	**13-SG-1DL**	**Air**			**11/11/25**		**11/12/25**
			TO-15	TO-15		11/21/25	
Q3626-10	**14-SG-1**	**Air**			**11/12/25**		**11/12/25**
			TO-15	TO-15		11/19/25	
Q3626-11	**15-SG-1**	**Air**			**11/12/25**		**11/12/25**
			TO-15	TO-15		11/19/25	
Q3626-11DL	**15-SG-1DL**	**Air**			**11/12/25**		**11/12/25**
			TO-15	TO-15		11/19/25	
Q3626-12	**16-SG-1**	**Air**			**11/12/25**		**11/12/25**
			TO-15	TO-15		11/19/25	
Q3626-12DL	**16-SG-1DL**	**Air**			**11/12/25**		**11/12/25**
			TO-15	TO-15		11/19/25	
Q3626-12DL2	**16-SG-1DL2**	**Air**			**11/12/25**		**11/12/25**
			TO-15	TO-15		11/20/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3626

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**9A-SG-1**							
Q3626-01	9A-SG-1	Air	Dichlorodifluoromethane	2.57	J	1.09	4.94	ug/m3
Q3626-01	9A-SG-1	Air	Chloromethane	1.20	J	0.41	2.07	ug/m3
Q3626-01	9A-SG-1	Air	tert-Butyl alcohol	1.06	J	0.97	3.03	ug/m3
Q3626-01	9A-SG-1	Air	Heptane	10.7		1.39	4.10	ug/m3
Q3626-01	9A-SG-1	Air	Acetone	74.1	E	0.86	2.38	ug/m3
Q3626-01	9A-SG-1	Air	Carbon Disulfide	1.46	J	0.50	3.11	ug/m3
Q3626-01	9A-SG-1	Air	2-Butanone	5.90		0.32	2.95	ug/m3
Q3626-01	9A-SG-1	Air	Carbon Tetrachloride	0.44		0.31	0.38	ug/m3
Q3626-01	9A-SG-1	Air	Benzene	1.28	J	0.51	3.19	ug/m3
Q3626-01	9A-SG-1	Air	Trichloroethene	0.59		0.27	0.32	ug/m3
Q3626-01	9A-SG-1	Air	Toluene	1.92	J	1.21	3.77	ug/m3
Q3626-01	9A-SG-1	Air	Tetrachloroethene	156		0.20	0.41	ug/m3
Q3626-01	9A-SG-1	Air	Styrene	5.11		1.36	4.26	ug/m3
Q3626-01	9A-SG-1	Air	Naphthalene	1.10		0.16	1.05	ug/m3
Q3626-01	9A-SG-1	Air	Hexane	15.2		1.13	3.52	ug/m3
			Total Voc :	279				
			Total Concentration:	279				
Client ID:	**9A-SG-1DL**							
Q3626-01DL	9A-SG-1DL	Air	Chloromethane	1.55	JD	1.01	5.16	ug/m3
Q3626-01DL	9A-SG-1DL	Air	Heptane	8.61	JD	3.48	10.3	ug/m3
Q3626-01DL	9A-SG-1DL	Air	Acetone	78.9	D	2.14	5.94	ug/m3
Q3626-01DL	9A-SG-1DL	Air	2-Butanone	6.19	JD	0.83	7.37	ug/m3
Q3626-01DL	9A-SG-1DL	Air	Tetrachloroethene	151	D	0.54	1.02	ug/m3
Q3626-01DL	9A-SG-1DL	Air	Styrene	4.09	JD	3.41	10.6	ug/m3
Q3626-01DL	9A-SG-1DL	Air	Hexane	14.8	D	2.82	8.81	ug/m3
			Total Voc :	265				
			Total Concentration:	265				
Client ID:	**9A-SG-2**							
Q3626-02	9A-SG-2	Air	Dichlorodifluoromethane	2.57	J	1.09	4.94	ug/m3
Q3626-02	9A-SG-2	Air	Trichlorofluoromethane	3.99	J	1.91	5.62	ug/m3
Q3626-02	9A-SG-2	Air	tert-Butyl alcohol	2.91	J	0.97	3.03	ug/m3
Q3626-02	9A-SG-2	Air	Acetone	38.0		0.86	2.38	ug/m3
Q3626-02	9A-SG-2	Air	Carbon Disulfide	2.37	J	0.50	3.11	ug/m3
Q3626-02	9A-SG-2	Air	Methylene Chloride	9.38		1.60	3.47	ug/m3
Q3626-02	9A-SG-2	Air	2-Butanone	1.62	J	0.32	2.95	ug/m3
Q3626-02	9A-SG-2	Air	Carbon Tetrachloride	0.44		0.31	0.38	ug/m3

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Hit Summary Sheet
SW-846

SDG No.: Q3626

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3626-02	9A-SG-2	Air	Chloroform	19.5		0.93	4.88	ug/m3
Q3626-02	9A-SG-2	Air	1,1,1-Trichloroethane	0.49		0.16	0.33	ug/m3
Q3626-02	9A-SG-2	Air	Benzene	0.93	J	0.51	3.19	ug/m3
Q3626-02	9A-SG-2	Air	Trichloroethene	1.40		0.27	0.32	ug/m3
Q3626-02	9A-SG-2	Air	Tetrachloroethene	10.2		0.20	0.41	ug/m3
Q3626-02	9A-SG-2	Air	Hexane	5.29		1.13	3.52	ug/m3
			Total Voc :	99.1				
			Total Concentration:	99.1				
Client ID:	**9B-SG-1**							
Q3626-03	9B-SG-1	Air	Dichlorodifluoromethane	2.87	J	1.09	4.94	ug/m3
Q3626-03	9B-SG-1	Air	Chloromethane	0.47	J	0.41	2.07	ug/m3
Q3626-03	9B-SG-1	Air	tert-Butyl alcohol	1.12	J	0.97	3.03	ug/m3
Q3626-03	9B-SG-1	Air	Acetone	39.4		0.86	2.38	ug/m3
Q3626-03	9B-SG-1	Air	Methylene Chloride	9.03		1.60	3.47	ug/m3
Q3626-03	9B-SG-1	Air	2-Butanone	5.90		0.32	2.95	ug/m3
Q3626-03	9B-SG-1	Air	Benzene	9.90		0.51	3.19	ug/m3
Q3626-03	9B-SG-1	Air	Trichloroethene	0.86		0.27	0.32	ug/m3
Q3626-03	9B-SG-1	Air	Toluene	1.81	J	1.21	3.77	ug/m3
Q3626-03	9B-SG-1	Air	Tetrachloroethene	130		0.20	0.41	ug/m3
Q3626-03	9B-SG-1	Air	Hexane	5.64		1.13	3.52	ug/m3
			Total Voc :	207				
			Total Concentration:	207				
Client ID:	**9B-SG-2**							
Q3626-04	9B-SG-2	Air	Dichlorodifluoromethane	2.62	J	1.09	4.94	ug/m3
Q3626-04	9B-SG-2	Air	Chloromethane	30.6		0.41	2.07	ug/m3
Q3626-04	9B-SG-2	Air	Vinyl Chloride	1.33		0.13	0.15	ug/m3
Q3626-04	9B-SG-2	Air	Chloroethane	5.28		0.79	2.64	ug/m3
Q3626-04	9B-SG-2	Air	tert-Butyl alcohol	1.24	J	0.97	3.03	ug/m3
Q3626-04	9B-SG-2	Air	Heptane	1.76	J	1.39	4.10	ug/m3
Q3626-04	9B-SG-2	Air	Acetone	99.8	E	0.86	2.38	ug/m3
Q3626-04	9B-SG-2	Air	Carbon Disulfide	4.05		0.50	3.11	ug/m3
Q3626-04	9B-SG-2	Air	Methylene Chloride	2.78	J	1.60	3.47	ug/m3
Q3626-04	9B-SG-2	Air	2-Butanone	6.19		0.32	2.95	ug/m3
Q3626-04	9B-SG-2	Air	Carbon Tetrachloride	0.44		0.31	0.38	ug/m3
Q3626-04	9B-SG-2	Air	Benzene	33.5		0.51	3.19	ug/m3
Q3626-04	9B-SG-2	Air	Toluene	4.15		1.21	3.77	ug/m3
Q3626-04	9B-SG-2	Air	Tetrachloroethene	0.81		0.20	0.41	ug/m3

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Hit Summary Sheet
SW-846

SDG No.: Q3626

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3626-04	9B-SG-2	Air	1,3-Butadiene	12.4		0.22	2.21	ug/m3
Q3626-04	9B-SG-2	Air	Hexane	4.58		1.13	3.52	ug/m3
			Total Voc :	211				
			Total Concentration:	211				
Client ID:	**9B-SG-2DL**							
Q3626-04DL	9B-SG-2DL	Air	Chloromethane	29.5	D	1.01	5.16	ug/m3
Q3626-04DL	9B-SG-2DL	Air	Vinyl Chloride	1.61	D	0.33	0.38	ug/m3
Q3626-04DL	9B-SG-2DL	Air	Chloroethane	6.07	JD	1.98	6.60	ug/m3
Q3626-04DL	9B-SG-2DL	Air	Acetone	103	D	2.14	5.94	ug/m3
Q3626-04DL	9B-SG-2DL	Air	Carbon Disulfide	4.67	JD	1.25	7.79	ug/m3
Q3626-04DL	9B-SG-2DL	Air	Methylene Chloride	4.52	JD	4.17	8.69	ug/m3
Q3626-04DL	9B-SG-2DL	Air	2-Butanone	5.90	JD	0.83	7.37	ug/m3
Q3626-04DL	9B-SG-2DL	Air	Benzene	32.3	D	1.28	7.99	ug/m3
Q3626-04DL	9B-SG-2DL	Air	Toluene	3.50	JD	3.01	9.42	ug/m3
Q3626-04DL	9B-SG-2DL	Air	1,3-Butadiene	12.6	D	0.58	5.53	ug/m3
Q3626-04DL	9B-SG-2DL	Air	Hexane	5.99	JD	2.82	8.81	ug/m3
			Total Voc :	210				
			Total Concentration:	210				
Client ID:	**10-SG-1**							
Q3626-05	10-SG-1	Air	Dichlorodifluoromethane	2.67	J	1.09	4.94	ug/m3
Q3626-05	10-SG-1	Air	Tetrahydrofuran	0.94	J	0.47	2.95	ug/m3
Q3626-05	10-SG-1	Air	Acetone	428	E	0.86	2.38	ug/m3
Q3626-05	10-SG-1	Air	Carbon Disulfide	2.24	J	0.50	3.11	ug/m3
Q3626-05	10-SG-1	Air	Methylene Chloride	4.86		1.60	3.47	ug/m3
Q3626-05	10-SG-1	Air	2-Butanone	4.42		0.32	2.95	ug/m3
Q3626-05	10-SG-1	Air	Carbon Tetrachloride	0.38		0.31	0.38	ug/m3
Q3626-05	10-SG-1	Air	Chloroform	5.86		0.93	4.88	ug/m3
Q3626-05	10-SG-1	Air	Trichloroethene	9.67		0.27	0.32	ug/m3
Q3626-05	10-SG-1	Air	Tetrachloroethene	882	E	0.20	0.41	ug/m3
Q3626-05	10-SG-1	Air	Hexane	3.07	J	1.13	3.52	ug/m3
			Total Voc :	1340				
			Total Concentration:	1340				
Client ID:	**10-SG-1DL**							
Q3626-05DL	10-SG-1DL	Air	Acetone	499	D	8.55	23.8	ug/m3
Q3626-05DL	10-SG-1DL	Air	2-Butanone	6.19	JD	3.24	29.5	ug/m3
Q3626-05DL	10-SG-1DL	Air	Trichloroethene	11.3	D	2.58	3.22	ug/m3
Q3626-05DL	10-SG-1DL	Air	Tetrachloroethene	882	D	2.03	4.07	ug/m3
			Total Voc :	1400				

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Hit Summary Sheet
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SDG No.: Q3626

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Concentration:	1400				
Client ID:	**11-SG-1**							
Q3626-06	11-SG-1	Air	Dichlorodifluoromethane	2.37	J	1.09	4.94	ug/m3
Q3626-06	11-SG-1	Air	Chloromethane	0.52	J	0.41	2.07	ug/m3
Q3626-06	11-SG-1	Air	tert-Butyl alcohol	1.24	J	0.97	3.03	ug/m3
Q3626-06	11-SG-1	Air	Heptane	2.62	J	1.39	4.10	ug/m3
Q3626-06	11-SG-1	Air	Acetone	69.4		0.86	2.38	ug/m3
Q3626-06	11-SG-1	Air	Carbon Disulfide	0.75	J	0.50	3.11	ug/m3
Q3626-06	11-SG-1	Air	2-Butanone	7.96		0.32	2.95	ug/m3
Q3626-06	11-SG-1	Air	Carbon Tetrachloride	0.44		0.31	0.38	ug/m3
Q3626-06	11-SG-1	Air	Benzene	81.8		0.51	3.19	ug/m3
Q3626-06	11-SG-1	Air	Trichloroethene	2.53		0.27	0.32	ug/m3
Q3626-06	11-SG-1	Air	Toluene	2.71	J	1.21	3.77	ug/m3
Q3626-06	11-SG-1	Air	Tetrachloroethene	45.4		0.20	0.41	ug/m3
Q3626-06	11-SG-1	Air	Hexane	6.34		1.13	3.52	ug/m3
Q3626-06	11-SG-1	Air	Methyl Methacrylate	1.88	J	1.15	4.09	ug/m3
			Total Voc :	226				
			Total Concentration:	226				
Client ID:	**12-SG-1**							
Q3626-07	12-SG-1	Air	Dichlorodifluoromethane	2.82	J	1.09	4.94	ug/m3
Q3626-07	12-SG-1	Air	Acetone	34.4		0.86	2.38	ug/m3
Q3626-07	12-SG-1	Air	Carbon Disulfide	1.62	J	0.50	3.11	ug/m3
Q3626-07	12-SG-1	Air	Methylene Chloride	14.9		1.60	3.47	ug/m3
Q3626-07	12-SG-1	Air	2-Butanone	2.60	J	0.32	2.95	ug/m3
Q3626-07	12-SG-1	Air	Carbon Tetrachloride	0.50		0.31	0.38	ug/m3
Q3626-07	12-SG-1	Air	Benzene	1.47	J	0.51	3.19	ug/m3
Q3626-07	12-SG-1	Air	Trichloroethene	2.53		0.27	0.32	ug/m3
Q3626-07	12-SG-1	Air	Toluene	1.58	J	1.21	3.77	ug/m3
Q3626-07	12-SG-1	Air	Tetrachloroethene	55.6		0.20	0.41	ug/m3
Q3626-07	12-SG-1	Air	Hexane	8.81		1.13	3.52	ug/m3
			Total Voc :	127				
			Total Concentration:	127				
Client ID:	**12-SG-2**							
Q3626-08	12-SG-2	Air	Dichlorodifluoromethane	2.72	J	1.09	4.94	ug/m3
Q3626-08	12-SG-2	Air	Chloromethane	0.78	J	0.41	2.07	ug/m3
Q3626-08	12-SG-2	Air	Acetone	65.8		0.86	2.38	ug/m3
Q3626-08	12-SG-2	Air	Methylene Chloride	121	E	1.60	3.47	ug/m3
Q3626-08	12-SG-2	Air	2-Butanone	1.53	J	0.32	2.95	ug/m3

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Hit Summary Sheet
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SDG No.: Q3626

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3626-08	12-SG-2	Air	Carbon Tetrachloride	0.44		0.31	0.38	ug/m3
Q3626-08	12-SG-2	Air	Benzene	0.73	J	0.51	3.19	ug/m3
Q3626-08	12-SG-2	Air	Trichloroethene	0.43		0.27	0.32	ug/m3
Q3626-08	12-SG-2	Air	Toluene	1.24	J	1.21	3.77	ug/m3
Q3626-08	12-SG-2	Air	Tetrachloroethene	125		0.20	0.41	ug/m3
Q3626-08	12-SG-2	Air	Hexane	83.2		1.13	3.52	ug/m3
			Total Voc :	403				
			Total Concentration:	403				
Client ID:	**12-SG-2DL**							
Q3626-08DL	12-SG-2DL	Air	Acetone	76.7	D	2.14	5.94	ug/m3
Q3626-08DL	12-SG-2DL	Air	Methylene Chloride	88.2	D	4.17	8.69	ug/m3
Q3626-08DL	12-SG-2DL	Air	2-Butanone	1.74	JD	0.83	7.37	ug/m3
Q3626-08DL	12-SG-2DL	Air	Tetrachloroethene	166	D	0.54	1.02	ug/m3
Q3626-08DL	12-SG-2DL	Air	Hexane	34.5	D	2.82	8.81	ug/m3
			Total Voc :	367				
			Total Concentration:	367				
Client ID:	**13-SG-1**							
Q3626-09	13-SG-1	Air	Dichlorodifluoromethane	2.87	J	1.09	4.94	ug/m3
Q3626-09	13-SG-1	Air	Chloromethane	0.72	J	0.41	2.07	ug/m3
Q3626-09	13-SG-1	Air	Tetrahydrofuran	1.83	J	0.47	2.95	ug/m3
Q3626-09	13-SG-1	Air	tert-Butyl alcohol	10.0		0.97	3.03	ug/m3
Q3626-09	13-SG-1	Air	Acetone	196	E	0.86	2.38	ug/m3
Q3626-09	13-SG-1	Air	Carbon Disulfide	1.99	J	0.50	3.11	ug/m3
Q3626-09	13-SG-1	Air	Methylene Chloride	13.2		1.60	3.47	ug/m3
Q3626-09	13-SG-1	Air	2-Butanone	6.78		0.32	2.95	ug/m3
Q3626-09	13-SG-1	Air	Carbon Tetrachloride	0.50		0.31	0.38	ug/m3
Q3626-09	13-SG-1	Air	Benzene	5.43		0.51	3.19	ug/m3
Q3626-09	13-SG-1	Air	Trichloroethene	1.83		0.27	0.32	ug/m3
Q3626-09	13-SG-1	Air	4-Methyl-2-Pentanone	1.31	J	0.78	4.10	ug/m3
Q3626-09	13-SG-1	Air	Toluene	2.56	J	1.21	3.77	ug/m3
Q3626-09	13-SG-1	Air	Tetrachloroethene	66.5		0.20	0.41	ug/m3
Q3626-09	13-SG-1	Air	Hexane	7.75		1.13	3.52	ug/m3
			Total Voc :	320				
			Total Concentration:	320				
Client ID:	**13-SG-1DL**							
Q3626-09DL	13-SG-1DL	Air	tert-Butyl alcohol	8.79	JD	4.85	15.2	ug/m3
Q3626-09DL	13-SG-1DL	Air	Acetone	180	D	4.28	11.9	ug/m3
Q3626-09DL	13-SG-1DL	Air	Methylene Chloride	13.6	JD	7.99	17.4	ug/m3

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Hit Summary Sheet
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SDG No.: Q3626

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3626-09DL	13-SG-1DL	Air	2-Butanone	7.96	JD	1.65	14.8	ug/m3
Q3626-09DL	13-SG-1DL	Air	Benzene	5.11	JD	2.52	16.0	ug/m3
Q3626-09DL	13-SG-1DL	Air	Tetrachloroethene	57.6	D	1.02	2.03	ug/m3
Q3626-09DL	13-SG-1DL	Air	Hexane	8.81	JD	5.64	17.6	ug/m3
			Total Voc :	282				
			Total Concentration:	282				
Client ID:	**14-SG-1**							
Q3626-10	14-SG-1	Air	Dichlorodifluoromethane	2.52	J	1.09	4.94	ug/m3
Q3626-10	14-SG-1	Air	Chloromethane	0.58	J	0.41	2.07	ug/m3
Q3626-10	14-SG-1	Air	Acetone	63.7		0.86	2.38	ug/m3
Q3626-10	14-SG-1	Air	Carbon Disulfide	2.93	J	0.50	3.11	ug/m3
Q3626-10	14-SG-1	Air	Methylene Chloride	1.70	J	1.60	3.47	ug/m3
Q3626-10	14-SG-1	Air	2-Butanone	4.13		0.32	2.95	ug/m3
Q3626-10	14-SG-1	Air	Carbon Tetrachloride	0.44		0.31	0.38	ug/m3
Q3626-10	14-SG-1	Air	Benzene	3.19		0.51	3.19	ug/m3
Q3626-10	14-SG-1	Air	Toluene	1.51	J	1.21	3.77	ug/m3
Q3626-10	14-SG-1	Air	Tetrachloroethene	18.3		0.20	0.41	ug/m3
Q3626-10	14-SG-1	Air	Hexane	3.31	J	1.13	3.52	ug/m3
			Total Voc :	102				
			Total Concentration:	102				
Client ID:	**15-SG-1**							
Q3626-11	15-SG-1	Air	Dichlorodifluoromethane	2.47	J	1.09	4.94	ug/m3
Q3626-11	15-SG-1	Air	tert-Butyl alcohol	5.76		0.97	3.03	ug/m3
Q3626-11	15-SG-1	Air	Heptane	5.74		1.39	4.10	ug/m3
Q3626-11	15-SG-1	Air	Acetone	204	E	0.86	2.38	ug/m3
Q3626-11	15-SG-1	Air	Carbon Disulfide	2.15	J	0.50	3.11	ug/m3
Q3626-11	15-SG-1	Air	Methylene Chloride	8.34		1.60	3.47	ug/m3
Q3626-11	15-SG-1	Air	2-Butanone	15.3		0.32	2.95	ug/m3
Q3626-11	15-SG-1	Air	Chloroform	1.61	J	0.93	4.88	ug/m3
Q3626-11	15-SG-1	Air	Benzene	1.25	J	0.51	3.19	ug/m3
Q3626-11	15-SG-1	Air	4-Methyl-2-Pentanone	11.9		0.78	4.10	ug/m3
Q3626-11	15-SG-1	Air	Toluene	1.92	J	1.21	3.77	ug/m3
Q3626-11	15-SG-1	Air	Tetrachloroethene	38.6		0.20	0.41	ug/m3
Q3626-11	15-SG-1	Air	Hexane	13.0		1.13	3.52	ug/m3
			Total Voc :	312				
			Total Concentration:	312				
Client ID:	**15-SG-1DL**							
Q3626-11DL	15-SG-1DL	Air	tert-Butyl alcohol	6.06	JD	4.85	15.2	ug/m3

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Hit Summary Sheet
SW-846

SDG No.: Q3626

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3626-11DL	15-SG-1DL	Air	Acetone	207	D	4.28	11.9	ug/m3
Q3626-11DL	15-SG-1DL	Air	Methylene Chloride	9.03	JD	7.99	17.4	ug/m3
Q3626-11DL	15-SG-1DL	Air	2-Butanone	13.9	JD	1.65	14.8	ug/m3
Q3626-11DL	15-SG-1DL	Air	4-Methyl-2-Pentanone	9.84	JD	3.98	20.5	ug/m3
Q3626-11DL	15-SG-1DL	Air	Tetrachloroethene	34.6	D	1.02	2.03	ug/m3
Q3626-11DL	15-SG-1DL	Air	Hexane	11.3	JD	5.64	17.6	ug/m3
			Total Voc :	292				
			Total Concentration:	292				
Client ID:	**16-SG-1**							
Q3626-12	16-SG-1	Air	Dichlorodifluoromethane	2.57	J	1.09	4.94	ug/m3
Q3626-12	16-SG-1	Air	Tetrahydrofuran	8.85		0.47	2.95	ug/m3
Q3626-12	16-SG-1	Air	tert-Butyl alcohol	62.1		0.97	3.03	ug/m3
Q3626-12	16-SG-1	Air	Heptane	9.02		1.39	4.10	ug/m3
Q3626-12	16-SG-1	Air	Acetone	1500	E	0.86	2.38	ug/m3
Q3626-12	16-SG-1	Air	Carbon Disulfide	3.43		0.50	3.11	ug/m3
Q3626-12	16-SG-1	Air	Methylene Chloride	5.91		1.60	3.47	ug/m3
Q3626-12	16-SG-1	Air	2-Butanone	55.7		0.32	2.95	ug/m3
Q3626-12	16-SG-1	Air	1,1,1-Trichloroethane	0.98		0.16	0.33	ug/m3
Q3626-12	16-SG-1	Air	Benzene	1.09	J	0.51	3.19	ug/m3
Q3626-12	16-SG-1	Air	4-Methyl-2-Pentanone	29.1		0.78	4.10	ug/m3
Q3626-12	16-SG-1	Air	Toluene	6.41		1.21	3.77	ug/m3
Q3626-12	16-SG-1	Air	Tetrachloroethene	70.5		0.20	0.41	ug/m3
Q3626-12	16-SG-1	Air	m/p-Xylene	3.74	J	3.56	8.69	ug/m3
Q3626-12	16-SG-1	Air	Styrene	1.36	J	1.36	4.26	ug/m3
Q3626-12	16-SG-1	Air	Hexane	12.7		1.13	3.52	ug/m3
Q3626-12	16-SG-1	Air	1,4-Dioxane	41.8		1.59	3.60	ug/m3
			Total Voc :	1810				
			Total Concentration:	1810				
Client ID:	**16-SG-1DL**							
Q3626-12DL	16-SG-1DL	Air	tert-Butyl alcohol	52.1	JD	19.4	60.6	ug/m3
Q3626-12DL	16-SG-1DL	Air	Acetone	7600	ED	17.1	47.5	ug/m3
Q3626-12DL	16-SG-1DL	Air	2-Butanone	55.1	JD	6.49	59.0	ug/m3
Q3626-12DL	16-SG-1DL	Air	4-Methyl-2-Pentanone	24.6	JD	16.0	82.0	ug/m3
Q3626-12DL	16-SG-1DL	Air	Tetrachloroethene	62.4	D	4.07	8.14	ug/m3
Q3626-12DL	16-SG-1DL	Air	1,4-Dioxane	37.1	JD	31.7	72.1	ug/m3
			Total Voc :	7830				
			Total Concentration:	7830				
Client ID:	**16-SG-1DL2**							

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Hit Summary Sheet
SW-846

SDG No.: Q3626

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3626-12DL2	16-SG-1DL2	Air	Acetone	9500	D	261	713	ug/m3
			Total Voc :	9500				
			Total Concentration:	9500				

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Project : CHADWICK SQUARE
Field Id Number : 9A-SG-1
Laboratory Id Number : Q3626-01

Sampling Date : 11/11/25
Analysis Date : 11/19/25
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.52	J	2.57		
Chloromethane	74-87-3	50.49	0.58	J	1.2		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.16	U	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.34	U	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	0.35	J	1.06		
Heptane	142-82-5	100.2	2.6		10.7		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	31.2	E	74.1		
Carbon Disulfide	75-15-0	76.14	0.47	J	1.46		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	0.46	U	1.6		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	2		5.9		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.19	U	0.93		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	0.4	J	1.28		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.11		0.59		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	U	0.78		
Toluene	108-88-3	92.14	0.51	J	1.92		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : CHADWICK SQUARE

Sampling Date : 11/11/25

Field Id Number : 9A-SG-1

Analysis Date : 11/19/25

Laboratory Id Number : Q3626-01

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	23		155		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	1.2		5.11		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.21		1.1		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	4.3		15.2		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

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Project : CHADWICK SQUARE
Field Id Number : 9A-SG-1DL
Laboratory Id Number : Q3626-01DL

Sampling Date : 11/11/25
Analysis Date : 11/19/25
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.55	UD	2.72		
Chloromethane	74-87-3	50.49	0.75	JD	1.55		
Vinyl Chloride	75-01-4	62.5	0.13	UD	0.33		
Bromomethane	74-83-9	94.94	0.39	UD	1.51		
Chloroethane	75-00-3	64.52	0.75	UD	1.98		
Tetrahydrofuran	109-99-9	72.11	0.4	UD	1.18		
Trichlorofluoromethane	75-69-4	137.4	0.85	UD	4.78		
Dichlorotetrafluoroethane	76-14-2	170.9	0.75	UD	5.24		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.7	UD	5.37		
tert-Butyl alcohol	75-65-0	74.12	0.8	UD	2.43		
Heptane	142-82-5	100.2	2.1	JD	8.61		
1,1-Dichloroethene	75-35-4	96.94	0.75	UD	2.97		
Acetone	67-64-1	58.08	33.2	D	78.9		
Carbon Disulfide	75-15-0	76.14	0.4	UD	1.25		
Methyl tert-Butyl Ether	1634-04-4	88.15	1.2	UD	4.33		
Methylene Chloride	75-09-2	84.94	1.2	UD	4.17		
trans-1,2-Dichloroethene	156-60-5	96.94	0.6	UD	2.38		
1,1-Dichloroethane	75-34-3	98.96	0.65	UD	2.63		
Cyclohexane	110-82-7	84.16	1.1	UD	3.79		
2-Butanone	78-93-3	72.11	2.1	JD	6.19		
Carbon Tetrachloride	56-23-5	153.8	0.13	UD	0.82		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	UD	1.98		
Chloroform	67-66-3	119.4	0.48	UD	2.34		
1,1,1-Trichloroethane	71-55-6	133.4	0.08	UD	0.44		
2,2,4-Trimethylpentane	540-84-1	114.2	0.7	UD	3.27		
Benzene	71-43-2	78.11	0.4	UD	1.28		
1,2-Dichloroethane	107-06-2	98.96	0.47	UD	1.9		
Trichloroethene	79-01-6	131.4	0.12	UD	0.64		
1,2-Dichloropropane	78-87-5	113	0.65	UD	3		
Bromodichloromethane	75-27-4	163.8	0.32	UD	2.14		
4-Methyl-2-Pentanone	108-10-1	100.2	0.49	UD	2.01		
Toluene	108-88-3	92.14	0.8	UD	3.01		
t-1,3-Dichloropropene	10061-02-6	111	0.75	UD	3.4		
cis-1,3-Dichloropropene	10061-01-5	111	0.55	UD	2.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.41	UD	2.24		

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Project : CHADWICK SQUARE
Sampling Date : 11/11/25
Field Id Number : 9A-SG-1DL
Analysis Date : 11/19/25
Laboratory Id Number : Q3626-01DL
Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.43	UD	3.66		
1,2-Dibromoethane	106-93-4	187.9	0.43	UD	3.3		
Tetrachloroethene	127-18-4	165.8	22.3	D	151		
Chlorobenzene	108-90-7	112.6	0.39	UD	1.8		
Ethyl Benzene	100-41-4	106.2	0.95	UD	4.13		
m/p-Xylene	179601-23-1	106.2	2.1	UD	9.12		
o-Xylene	95-47-6	106.2	1.1	UD	4.78		
Styrene	100-42-5	104.1	0.96	JD	4.09		
Bromoform	75-25-2	252.8	0.24	UD	2.48		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.09	UD	0.62		
2-Chlorotoluene	95-49-8	126.6	0.85	UD	4.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.9	UD	4.42		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.9	UD	4.42		
1,3-Dichlorobenzene	541-73-1	147	0.27	UD	1.62		
1,4-Dichlorobenzene	106-46-7	147	0.65	UD	3.91		
1,2-Dichlorobenzene	95-50-1	147	0.65	UD	3.91		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.1	UD	8.17		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.65	UD	6.93		
Naphthalene	91-20-3	128.17	0.07	UD	0.37		
1,3-Butadiene	106-99-0	54.09	0.26	UD	0.58		
4-Ethyltoluene	622-96-8	120.2	1.1	UD	5.41		
Hexane	110-54-3	86.17	4.2	D	14.8		
Allyl Chloride	107-05-1	76.53	0.55	UD	1.72		
1,4-Dioxane	123-91-1	88.12	1.1	UD	3.96		
Methyl Methacrylate	80-62-6	100.117	0.7	UD	2.87		

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Project : CHADWICK SQUARE
Sampling Date : 11/11/25
Field Id Number : 9A-SG-2
Analysis Date : 11/19/25
Laboratory Id Number : Q3626-02
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	0.52	J	2.57		
Chloromethane	74-87-3	50.49	0.2	U	0.41		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.16	U	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.71	J	3.99		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	0.96	J	2.91		
Heptane	142-82-5	100.2	0.34	U	1.39		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	16		38.0		
Carbon Disulfide	75-15-0	76.14	0.76	J	2.37		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	2.7		9.38		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	0.55	J	1.62		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	4		19.5		
1,1,1-Trichloroethane	71-55-6	133.4	0.09		0.49		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	0.29	J	0.93		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.26		1.4		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	U	0.78		
Toluene	108-88-3	92.14	0.32	U	1.21		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : CHADWICK SQUARE **Sampling Date :** 11/11/25

Field Id Number : 9A-SG-2 **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-02 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	1.5		10.2		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	1.5		5.29		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

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Project : CHADWICK SQUARE
Field Id Number : 9B-SG-1
Laboratory Id Number : Q3626-03

Sampling Date : 11/11/25
Analysis Date : 11/19/25
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.58	J	2.87		
Chloromethane	74-87-3	50.49	0.23	J	0.47		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.16	U	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.34	U	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	0.37	J	1.12		
Heptane	142-82-5	100.2	0.34	U	1.39		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	16.6		39.4		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	2.6		9.03		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	2		5.9		
Carbon Tetrachloride	56-23-5	153.8	0.05	U	0.31		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.19	U	0.93		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	3.1		9.9		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.16		0.86		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	U	0.78		
Toluene	108-88-3	92.14	0.48	J	1.81		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : CHADWICK SQUARE **Sampling Date :** 11/11/25

Field Id Number : 9B-SG-1 **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-03 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	19.2		130		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	1.6		5.64		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

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Project : CHADWICK SQUARE
Sampling Date : 11/12/25
Field Id Number : 9B-SG-2
Analysis Date : 11/19/25
Laboratory Id Number : Q3626-04
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	0.53	J	2.62		
Chloromethane	74-87-3	50.49	14.8		30.6		
Vinyl Chloride	75-01-4	62.5	0.52		1.33		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	2		5.28		
Tetrahydrofuran	109-99-9	72.11	0.16	U	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.34	U	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	0.41	J	1.24		
Heptane	142-82-5	100.2	0.43	J	1.76		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	42	E	99.8		
Carbon Disulfide	75-15-0	76.14	1.3		4.05		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	0.8	J	2.78		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	2.1		6.19		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.19	U	0.93		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	10.5		33.5		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.05	U	0.27		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	U	0.78		
Toluene	108-88-3	92.14	1.1		4.15		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : CHADWICK SQUARE **Sampling Date :** 11/12/25

Field Id Number : 9B-SG-2 **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-04 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	0.12		0.81		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
1,3-Butadiene	106-99-0	54.09	5.6		12.4		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	1.3		4.58		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

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Project : CHADWICK SQUARE
Field Id Number : 9B-SG-2DL
Laboratory Id Number : Q3626-04DL

Sampling Date : 11/12/25
Analysis Date : 11/19/25
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.55	UD	2.72		
Chloromethane	74-87-3	50.49	14.3	D	29.5		
Vinyl Chloride	75-01-4	62.5	0.63	D	1.61		
Bromomethane	74-83-9	94.94	0.39	UD	1.51		
Chloroethane	75-00-3	64.52	2.3	JD	6.07		
Tetrahydrofuran	109-99-9	72.11	0.4	UD	1.18		
Trichlorofluoromethane	75-69-4	137.4	0.85	UD	4.78		
Dichlorotetrafluoroethane	76-14-2	170.9	0.75	UD	5.24		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.7	UD	5.37		
tert-Butyl alcohol	75-65-0	74.12	0.8	UD	2.43		
Heptane	142-82-5	100.2	0.85	UD	3.48		
1,1-Dichloroethene	75-35-4	96.94	0.75	UD	2.97		
Acetone	67-64-1	58.08	43.3	D	102		
Carbon Disulfide	75-15-0	76.14	1.5	JD	4.67		
Methyl tert-Butyl Ether	1634-04-4	88.15	1.2	UD	4.33		
Methylene Chloride	75-09-2	84.94	1.3	JD	4.52		
trans-1,2-Dichloroethene	156-60-5	96.94	0.6	UD	2.38		
1,1-Dichloroethane	75-34-3	98.96	0.65	UD	2.63		
Cyclohexane	110-82-7	84.16	1.1	UD	3.79		
2-Butanone	78-93-3	72.11	2	JD	5.9		
Carbon Tetrachloride	56-23-5	153.8	0.13	UD	0.82		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	UD	1.98		
Chloroform	67-66-3	119.4	0.48	UD	2.34		
1,1,1-Trichloroethane	71-55-6	133.4	0.08	UD	0.44		
2,2,4-Trimethylpentane	540-84-1	114.2	0.7	UD	3.27		
Benzene	71-43-2	78.11	10.1	D	32.3		
1,2-Dichloroethane	107-06-2	98.96	0.47	UD	1.9		
Trichloroethene	79-01-6	131.4	0.12	UD	0.64		
1,2-Dichloropropane	78-87-5	113	0.65	UD	3		
Bromodichloromethane	75-27-4	163.8	0.32	UD	2.14		
4-Methyl-2-Pentanone	108-10-1	100.2	0.49	UD	2.01		
Toluene	108-88-3	92.14	0.93	JD	3.5		
t-1,3-Dichloropropene	10061-02-6	111	0.75	UD	3.4		
cis-1,3-Dichloropropene	10061-01-5	111	0.55	UD	2.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.41	UD	2.24		

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Project : CHADWICK SQUARE **Sampling Date :** 11/12/25

Field Id Number : 9B-SG-2DL **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-04DL **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.43	UD	3.66		
1,2-Dibromoethane	106-93-4	187.9	0.43	UD	3.3		
Tetrachloroethene	127-18-4	165.8	0.08	UD	0.54		
Chlorobenzene	108-90-7	112.6	0.39	UD	1.8		
Ethyl Benzene	100-41-4	106.2	0.95	UD	4.13		
m/p-Xylene	179601-23-1	106.2	2.1	UD	9.12		
o-Xylene	95-47-6	106.2	1.1	UD	4.78		
Styrene	100-42-5	104.1	0.8	UD	3.41		
Bromoform	75-25-2	252.8	0.24	UD	2.48		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.09	UD	0.62		
2-Chlorotoluene	95-49-8	126.6	0.85	UD	4.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.9	UD	4.42		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.9	UD	4.42		
1,3-Dichlorobenzene	541-73-1	147	0.27	UD	1.62		
1,4-Dichlorobenzene	106-46-7	147	0.65	UD	3.91		
1,2-Dichlorobenzene	95-50-1	147	0.65	UD	3.91		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.1	UD	8.17		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.65	UD	6.93		
Naphthalene	91-20-3	128.17	0.07	UD	0.37		
1,3-Butadiene	106-99-0	54.09	5.7	D	12.6		
4-Ethyltoluene	622-96-8	120.2	1.1	UD	5.41		
Hexane	110-54-3	86.17	1.7	JD	5.99		
Allyl Chloride	107-05-1	76.53	0.55	UD	1.72		
1,4-Dioxane	123-91-1	88.12	1.1	UD	3.96		
Methyl Methacrylate	80-62-6	100.117	0.7	UD	2.87		

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Project : CHADWICK SQUARE
Sampling Date : 11/11/25
Field Id Number : 10-SG-1
Analysis Date : 11/19/25
Laboratory Id Number : Q3626-05
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	0.54	J	2.67		
Chloromethane	74-87-3	50.49	0.2	U	0.41		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.32	J	0.94		
Trichlorofluoromethane	75-69-4	137.4	0.34	U	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	0.32	U	0.97		
Heptane	142-82-5	100.2	0.34	U	1.39		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	180	E	427		
Carbon Disulfide	75-15-0	76.14	0.72	J	2.24		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	1.4		4.86		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	1.5		4.42		
Carbon Tetrachloride	56-23-5	153.8	0.06		0.38		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	1.2		5.86		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	0.16	U	0.51		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	1.8		9.67		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	U	0.78		
Toluene	108-88-3	92.14	0.32	U	1.21		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : CHADWICK SQUARE

Sampling Date : 11/11/25

Field Id Number : 10-SG-1

Analysis Date : 11/19/25

Laboratory Id Number : Q3626-05

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	130	E	881		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	0.87	J	3.07		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

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Project : CHADWICK SQUARE
Field Id Number : 10-SG-1DL
Laboratory Id Number : Q3626-05DL

Sampling Date : 11/11/25
Analysis Date : 11/19/25
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	2.2	UD	10.9		
Chloromethane	74-87-3	50.49	2	UD	4.13		
Vinyl Chloride	75-01-4	62.5	0.5	UD	1.28		
Bromomethane	74-83-9	94.94	1.5	UD	5.82		
Chloroethane	75-00-3	64.52	3	UD	7.92		
Tetrahydrofuran	109-99-9	72.11	1.6	UD	4.72		
Trichlorofluoromethane	75-69-4	137.4	3.4	UD	19.1		
Dichlorotetrafluoroethane	76-14-2	170.9	3	UD	21.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	2.8	UD	21.5		
tert-Butyl alcohol	75-65-0	74.12	3.2	UD	9.7		
Heptane	142-82-5	100.2	3.4	UD	13.9		
1,1-Dichloroethene	75-35-4	96.94	3	UD	11.9		
Acetone	67-64-1	58.08	210	D	498		
Carbon Disulfide	75-15-0	76.14	1.6	UD	4.98		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.6	UD	16.6		
Methylene Chloride	75-09-2	84.94	4.6	UD	16.0		
trans-1,2-Dichloroethene	156-60-5	96.94	2.4	UD	9.52		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	2.1	JD	6.19		
Carbon Tetrachloride	56-23-5	153.8	0.5	UD	3.15		
cis-1,2-Dichloroethene	156-59-2	96.94	2	UD	7.93		
Chloroform	67-66-3	119.4	1.9	UD	9.28		
1,1,1-Trichloroethane	71-55-6	133.4	0.32	UD	1.75		
2,2,4-Trimethylpentane	540-84-1	114.2	2.8	UD	13.1		
Benzene	71-43-2	78.11	1.6	UD	5.11		
1,2-Dichloroethane	107-06-2	98.96	1.9	UD	7.69		
Trichloroethene	79-01-6	131.4	2.1	D	11.3		
1,2-Dichloropropane	78-87-5	113	2.6	UD	12.0		
Bromodichloromethane	75-27-4	163.8	1.3	UD	8.71		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	3.2	UD	12.1		
t-1,3-Dichloropropene	10061-02-6	111	3	UD	13.6		
cis-1,3-Dichloropropene	10061-01-5	111	2.2	UD	9.99		
1,1,2-Trichloroethane	79-00-5	133.4	1.6	UD	8.73		

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Project : CHADWICK SQUARE
Sampling Date : 11/11/25
Field Id Number : 10-SG-1DL
Analysis Date : 11/19/25
Laboratory Id Number : Q3626-05DL
Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	1.7	UD	14.5		
1,2-Dibromoethane	106-93-4	187.9	1.7	UD	13.1		
Tetrachloroethene	127-18-4	165.8	130	D	881		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	3.8	UD	16.5		
m/p-Xylene	179601-23-1	106.2	8.2	UD	35.6		
o-Xylene	95-47-6	106.2	4.2	UD	18.2		
Styrene	100-42-5	104.1	3.2	UD	13.6		
Bromoform	75-25-2	252.8	0.96	UD	9.93		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.36	UD	2.47		
2-Chlorotoluene	95-49-8	126.6	3.4	UD	17.6		
1,3,5-Trimethylbenzene	108-67-8	120.2	3.6	UD	17.7		
1,2,4-Trimethylbenzene	95-63-6	120.2	3.6	UD	17.7		
1,3-Dichlorobenzene	541-73-1	147	1.1	UD	6.61		
1,4-Dichlorobenzene	106-46-7	147	2.6	UD	15.6		
1,2-Dichlorobenzene	95-50-1	147	2.6	UD	15.6		
1,2,4-Trichlorobenzene	120-82-1	181.5	4.2	UD	31.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	2.6	UD	27.7		
Naphthalene	91-20-3	128.17	0.26	UD	1.36		
1,3-Butadiene	106-99-0	54.09	1	UD	2.21		
4-Ethyltoluene	622-96-8	120.2	4.2	UD	20.6		
Hexane	110-54-3	86.17	3.2	UD	11.3		
Allyl Chloride	107-05-1	76.53	2.2	UD	6.89		
1,4-Dioxane	123-91-1	88.12	4.4	UD	15.9		
Methyl Methacrylate	80-62-6	100.117	2.8	UD	11.5		

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Project : CHADWICK SQUARE
Field Id Number : 11-SG-1
Laboratory Id Number : Q3626-06

Sampling Date : 11/11/25
Analysis Date : 11/19/25
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.48	J	2.37		
Chloromethane	74-87-3	50.49	0.25	J	0.52		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.16	U	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.34	U	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	0.41	J	1.24		
Heptane	142-82-5	100.2	0.64	J	2.62		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	29.2		69.4		
Carbon Disulfide	75-15-0	76.14	0.24	J	0.75		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	0.46	U	1.6		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	2.7		7.96		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.19	U	0.93		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	25.6		81.8		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.47		2.53		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	U	0.78		
Toluene	108-88-3	92.14	0.72	J	2.71		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : CHADWICK SQUARE **Sampling Date :** 11/11/25

Field Id Number : 11-SG-1 **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-06 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	6.7		45.4		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	1.8		6.34		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.46	J	1.88		

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Project : CHADWICK SQUARE
Sampling Date : 11/11/25
Field Id Number : 12-SG-1
Analysis Date : 11/19/25
Laboratory Id Number : Q3626-07
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.57	J	2.82		
Chloromethane	74-87-3	50.49	0.2	U	0.41		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.16	U	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.34	U	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	0.32	U	0.97		
Heptane	142-82-5	100.2	0.34	U	1.39		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	14.5		34.4		
Carbon Disulfide	75-15-0	76.14	0.52	J	1.62		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	4.3		14.9		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	0.88	J	2.6		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.19	U	0.93		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	0.46	J	1.47		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.47		2.53		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	U	0.78		
Toluene	108-88-3	92.14	0.42	J	1.58		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : CHADWICK SQUARE **Sampling Date :** 11/11/25

Field Id Number : 12-SG-1 **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-07 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	8.2		55.6		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	2.5		8.81		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

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Project : CHADWICK SQUARE
Sampling Date : 11/11/25
Field Id Number : 12-SG-2
Analysis Date : 11/19/25
Laboratory Id Number : Q3626-08
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	0.55	J	2.72		
Chloromethane	74-87-3	50.49	0.38	J	0.78		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.16	U	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.34	U	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	0.32	U	0.97		
Heptane	142-82-5	100.2	0.34	U	1.39		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	27.7		65.8		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	34.7	E	120		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	0.52	J	1.53		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.19	U	0.93		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	0.23	J	0.73		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.08		0.43		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	U	0.78		
Toluene	108-88-3	92.14	0.33	J	1.24		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : CHADWICK SQUARE **Sampling Date :** 11/11/25

Field Id Number : 12-SG-2 **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-08 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	18.5		125		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	23.6		83.2		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

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Project : CHADWICK SQUARE
Sampling Date : 11/11/25
Field Id Number : 12-SG-2DL
Analysis Date : 11/19/25
Laboratory Id Number : Q3626-08DL
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	0.55	UD	2.72		
Chloromethane	74-87-3	50.49	0.49	UD	1.01		
Vinyl Chloride	75-01-4	62.5	0.13	UD	0.33		
Bromomethane	74-83-9	94.94	0.39	UD	1.51		
Chloroethane	75-00-3	64.52	0.75	UD	1.98		
Tetrahydrofuran	109-99-9	72.11	0.4	UD	1.18		
Trichlorofluoromethane	75-69-4	137.4	0.85	UD	4.78		
Dichlorotetrafluoroethane	76-14-2	170.9	0.75	UD	5.24		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.7	UD	5.37		
tert-Butyl alcohol	75-65-0	74.12	0.8	UD	2.43		
Heptane	142-82-5	100.2	0.85	UD	3.48		
1,1-Dichloroethene	75-35-4	96.94	0.75	UD	2.97		
Acetone	67-64-1	58.08	32.3	D	76.7		
Carbon Disulfide	75-15-0	76.14	0.4	UD	1.25		
Methyl tert-Butyl Ether	1634-04-4	88.15	1.2	UD	4.33		
Methylene Chloride	75-09-2	84.94	25.4	D	88.2		
trans-1,2-Dichloroethene	156-60-5	96.94	0.6	UD	2.38		
1,1-Dichloroethane	75-34-3	98.96	0.65	UD	2.63		
Cyclohexane	110-82-7	84.16	1.1	UD	3.79		
2-Butanone	78-93-3	72.11	0.59	JD	1.74		
Carbon Tetrachloride	56-23-5	153.8	0.13	UD	0.82		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	UD	1.98		
Chloroform	67-66-3	119.4	0.48	UD	2.34		
1,1,1-Trichloroethane	71-55-6	133.4	0.08	UD	0.44		
2,2,4-Trimethylpentane	540-84-1	114.2	0.7	UD	3.27		
Benzene	71-43-2	78.11	0.4	UD	1.28		
1,2-Dichloroethane	107-06-2	98.96	0.47	UD	1.9		
Trichloroethene	79-01-6	131.4	0.12	UD	0.64		
1,2-Dichloropropane	78-87-5	113	0.65	UD	3		
Bromodichloromethane	75-27-4	163.8	0.32	UD	2.14		
4-Methyl-2-Pentanone	108-10-1	100.2	0.49	UD	2.01		
Toluene	108-88-3	92.14	0.8	UD	3.01		
t-1,3-Dichloropropene	10061-02-6	111	0.75	UD	3.4		
cis-1,3-Dichloropropene	10061-01-5	111	0.55	UD	2.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.41	UD	2.24		

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Project : CHADWICK SQUARE **Sampling Date :** 11/11/25

Field Id Number : 12-SG-2DL **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-08DL **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.43	UD	3.66		
1,2-Dibromoethane	106-93-4	187.9	0.43	UD	3.3		
Tetrachloroethene	127-18-4	165.8	24.5	D	166		
Chlorobenzene	108-90-7	112.6	0.39	UD	1.8		
Ethyl Benzene	100-41-4	106.2	0.95	UD	4.13		
m/p-Xylene	179601-23-1	106.2	2.1	UD	9.12		
o-Xylene	95-47-6	106.2	1.1	UD	4.78		
Styrene	100-42-5	104.1	0.8	UD	3.41		
Bromoform	75-25-2	252.8	0.24	UD	2.48		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.09	UD	0.62		
2-Chlorotoluene	95-49-8	126.6	0.85	UD	4.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.9	UD	4.42		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.9	UD	4.42		
1,3-Dichlorobenzene	541-73-1	147	0.27	UD	1.62		
1,4-Dichlorobenzene	106-46-7	147	0.65	UD	3.91		
1,2-Dichlorobenzene	95-50-1	147	0.65	UD	3.91		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.1	UD	8.17		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.65	UD	6.93		
Naphthalene	91-20-3	128.17	0.07	UD	0.37		
1,3-Butadiene	106-99-0	54.09	0.26	UD	0.58		
4-Ethyltoluene	622-96-8	120.2	1.1	UD	5.41		
Hexane	110-54-3	86.17	9.8	D	34.5		
Allyl Chloride	107-05-1	76.53	0.55	UD	1.72		
1,4-Dioxane	123-91-1	88.12	1.1	UD	3.96		
Methyl Methacrylate	80-62-6	100.117	0.7	UD	2.87		

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Project : CHADWICK SQUARE
Sampling Date : 11/11/25
Field Id Number : 13-SG-1
Analysis Date : 11/19/25
Laboratory Id Number : Q3626-09
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	0.58	J	2.87		
Chloromethane	74-87-3	50.49	0.35	J	0.72		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.62	J	1.83		
Trichlorofluoromethane	75-69-4	137.4	0.34	U	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	3.3		10		
Heptane	142-82-5	100.2	0.34	U	1.39		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	82.7	E	196		
Carbon Disulfide	75-15-0	76.14	0.64	J	1.99		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	3.8		13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	2.3		6.78		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.19	U	0.93		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	1.7		5.43		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.34		1.83		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	0.32	J	1.31		
Toluene	108-88-3	92.14	0.68	J	2.56		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : CHADWICK SQUARE **Sampling Date :** 11/11/25

Field Id Number : 13-SG-1 **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-09 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	9.8		66.5		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	2.2		7.75		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

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Project : CHADWICK SQUARE
Field Id Number : 13-SG-1DL
Laboratory Id Number : Q3626-09DL

Sampling Date : 11/11/25
Analysis Date : 11/21/25
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1.1	UD	5.44		
Chloromethane	74-87-3	50.49	0.98	UD	2.02		
Vinyl Chloride	75-01-4	62.5	0.25	UD	0.64		
Bromomethane	74-83-9	94.94	0.77	UD	2.99		
Chloroethane	75-00-3	64.52	1.5	UD	3.96		
Tetrahydrofuran	109-99-9	72.11	0.8	UD	2.36		
Trichlorofluoromethane	75-69-4	137.4	1.7	UD	9.55		
Dichlorotetrafluoroethane	76-14-2	170.9	1.5	UD	10.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.4	UD	10.7		
tert-Butyl alcohol	75-65-0	74.12	2.9	JD	8.79		
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	75.7	D	179		
Carbon Disulfide	75-15-0	76.14	0.8	UD	2.49		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.3	UD	8.29		
Methylene Chloride	75-09-2	84.94	3.9	JD	13.6		
trans-1,2-Dichloroethene	156-60-5	96.94	1.2	UD	4.76		
1,1-Dichloroethane	75-34-3	98.96	1.3	UD	5.26		
Cyclohexane	110-82-7	84.16	2.2	UD	7.57		
2-Butanone	78-93-3	72.11	2.7	JD	7.96		
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	1.6	JD	5.11		
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 :** 11/11/25

Field Id Number : 13-SG-1DL **Analysis Date :** 11/21/25

Laboratory Id Number : Q3626-09DL **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	8.5	D	57.6		
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	2.5	JD	8.81		
Allyl Chloride	107-05-1	76.53	1.1	UD	3.44		
1,4-Dioxane	123-91-1	88.12	2.2	UD	7.93		
Methyl Methacrylate	80-62-6	100.117	1.4	UD	5.73		

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Project : CHADWICK SQUARE
Sampling Date : 11/12/25
Field Id Number : 14-SG-1
Analysis Date : 11/19/25
Laboratory Id Number : Q3626-10
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.51	J	2.52		
Chloromethane	74-87-3	50.49	0.28	J	0.58		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.16	U	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.34	U	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	0.32	U	0.97		
Heptane	142-82-5	100.2	0.34	U	1.39		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	26.8		63.7		
Carbon Disulfide	75-15-0	76.14	0.94	J	2.93		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	0.49	J	1.7		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	1.4		4.13		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.19	U	0.93		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	1		3.19		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.05	U	0.27		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	U	0.78		
Toluene	108-88-3	92.14	0.4	J	1.51		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : CHADWICK SQUARE **Sampling Date :** 11/12/25

Field Id Number : 14-SG-1 **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-10 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	2.7		18.3		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	0.94	J	3.31		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

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Project : CHADWICK SQUARE
Sampling Date : 11/12/25
Field Id Number : 15-SG-1
Analysis Date : 11/19/25
Laboratory Id Number : Q3626-11
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.5	J	2.47		
Chloromethane	74-87-3	50.49	0.2	U	0.41		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.16	U	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.34	U	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	1.9		5.76		
Heptane	142-82-5	100.2	1.4		5.74		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	85.9	E	204		
Carbon Disulfide	75-15-0	76.14	0.69	J	2.15		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	2.4		8.34		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	5.2		15.3		
Carbon Tetrachloride	56-23-5	153.8	0.05	U	0.31		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.33	J	1.61		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	0.39	J	1.25		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.05	U	0.27		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	2.9		11.9		
Toluene	108-88-3	92.14	0.51	J	1.92		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : CHADWICK SQUARE **Sampling Date :** 11/12/25

Field Id Number : 15-SG-1 **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-11 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	5.7		38.6		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	3.7		13.0		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

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Project : CHADWICK SQUARE
Field Id Number : 15-SG-1DL
Laboratory Id Number : Q3626-11DL

Sampling Date : 11/12/25
Analysis Date : 11/19/25
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1.1	UD	5.44		
Chloromethane	74-87-3	50.49	0.98	UD	2.02		
Vinyl Chloride	75-01-4	62.5	0.25	UD	0.64		
Bromomethane	74-83-9	94.94	0.77	UD	2.99		
Chloroethane	75-00-3	64.52	1.5	UD	3.96		
Tetrahydrofuran	109-99-9	72.11	0.8	UD	2.36		
Trichlorofluoromethane	75-69-4	137.4	1.7	UD	9.55		
Dichlorotetrafluoroethane	76-14-2	170.9	1.5	UD	10.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.4	UD	10.7		
tert-Butyl alcohol	75-65-0	74.12	2	JD	6.06		
Heptane	142-82-5	100.2	1.7	UD	6.97		
1,1-Dichloroethene	75-35-4	96.94	1.5	UD	5.95		
Acetone	67-64-1	58.08	87.3	D	207		
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	2.6	JD	9.03		
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	4.7	JD	13.9		
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	2.4	JD	9.84		
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 :** 11/12/25

Field Id Number : 15-SG-1DL **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-11DL **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	5.1	D	34.6		
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	3.2	JD	11.3		
Allyl Chloride	107-05-1	76.53	1.1	UD	3.44		
1,4-Dioxane	123-91-1	88.12	2.2	UD	7.93		
Methyl Methacrylate	80-62-6	100.117	1.4	UD	5.73		

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Project : CHADWICK SQUARE
Sampling Date : 11/12/25
Field Id Number : 16-SG-1
Analysis Date : 11/19/25
Laboratory Id Number : Q3626-12
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	0.52	J	2.57		
Chloromethane	74-87-3	50.49	0.2	U	0.41		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	3		8.85		
Trichlorofluoromethane	75-69-4	137.4	0.34	U	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	20.5		62.2		
Heptane	142-82-5	100.2	2.2		9.02		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	630	E	1496		
Carbon Disulfide	75-15-0	76.14	1.1		3.43		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	1.7		5.91		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	18.9		55.7		
Carbon Tetrachloride	56-23-5	153.8	0.05	U	0.31		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.19	U	0.93		
1,1,1-Trichloroethane	71-55-6	133.4	0.18		0.98		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	0.34	J	1.09		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.05	U	0.27		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	7.1		29.1		
Toluene	108-88-3	92.14	1.7		6.41		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : CHADWICK SQUARE **Sampling Date :** 11/12/25

Field Id Number : 16-SG-1 **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-12 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	10.4		70.5		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.86	J	3.74		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	J	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	3.6		12.7		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	11.6		41.8		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

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Project : CHADWICK SQUARE
Field Id Number : 16-SG-1DL
Laboratory Id Number : Q3626-12DL

Sampling Date : 11/12/25
Analysis Date : 11/19/25
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	4.4	UD	21.8		
Chloromethane	74-87-3	50.49	3.9	UD	8.05		
Vinyl Chloride	75-01-4	62.5	1	UD	2.56		
Bromomethane	74-83-9	94.94	3.1	UD	12.0		
Chloroethane	75-00-3	64.52	6	UD	15.8		
Tetrahydrofuran	109-99-9	72.11	3.2	UD	9.44		
Trichlorofluoromethane	75-69-4	137.4	6.8	UD	38.2		
Dichlorotetrafluoroethane	76-14-2	170.9	6	UD	41.9		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5.6	UD	42.9		
tert-Butyl alcohol	75-65-0	74.12	17.2	JD	52.1		
Heptane	142-82-5	100.2	6.8	UD	27.9		
1,1-Dichloroethene	75-35-4	96.94	6	UD	23.8		
Acetone	67-64-1	58.08	3200	ED	7601		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	9.2	UD	33.2		
Methylene Chloride	75-09-2	84.94	9.2	UD	32.0		
trans-1,2-Dichloroethene	156-60-5	96.94	4.8	UD	19.0		
1,1-Dichloroethane	75-34-3	98.96	5.2	UD	21.0		
Cyclohexane	110-82-7	84.16	8.8	UD	30.3		
2-Butanone	78-93-3	72.11	18.7	JD	55.2		
Carbon Tetrachloride	56-23-5	153.8	1	UD	6.29		
cis-1,2-Dichloroethene	156-59-2	96.94	4	UD	15.9		
Chloroform	67-66-3	119.4	3.8	UD	18.6		
1,1,1-Trichloroethane	71-55-6	133.4	0.64	UD	3.49		
2,2,4-Trimethylpentane	540-84-1	114.2	5.6	UD	26.2		
Benzene	71-43-2	78.11	3.2	UD	10.2		
1,2-Dichloroethane	107-06-2	98.96	3.7	UD	15.0		
Trichloroethene	79-01-6	131.4	0.96	UD	5.16		
1,2-Dichloropropane	78-87-5	113	5.2	UD	24.0		
Bromodichloromethane	75-27-4	163.8	2.5	UD	16.8		
4-Methyl-2-Pentanone	108-10-1	100.2	6	JD	24.6		
Toluene	108-88-3	92.14	6.4	UD	24.1		
t-1,3-Dichloropropene	10061-02-6	111	6	UD	27.2		
cis-1,3-Dichloropropene	10061-01-5	111	4.4	UD	20.0		
1,1,2-Trichloroethane	79-00-5	133.4	3.2	UD	17.5		

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Project : CHADWICK SQUARE **Sampling Date :** 11/12/25

Field Id Number : 16-SG-1DL **Analysis Date :** 11/19/25

Laboratory Id Number : Q3626-12DL **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	3.4	UD	29.0		
1,2-Dibromoethane	106-93-4	187.9	3.4	UD	26.1		
Tetrachloroethene	127-18-4	165.8	9.2	D	62.4		
Chlorobenzene	108-90-7	112.6	3.1	UD	14.3		
Ethyl Benzene	100-41-4	106.2	7.6	UD	33.0		
m/p-Xylene	179601-23-1	106.2	16.4	UD	71.2		
o-Xylene	95-47-6	106.2	8.4	UD	36.5		
Styrene	100-42-5	104.1	6.4	UD	27.2		
Bromoform	75-25-2	252.8	1.9	UD	19.6		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.72	UD	4.94		
2-Chlorotoluene	95-49-8	126.6	6.8	UD	35.2		
1,3,5-Trimethylbenzene	108-67-8	120.2	7.2	UD	35.4		
1,2,4-Trimethylbenzene	95-63-6	120.2	7.2	UD	35.4		
1,3-Dichlorobenzene	541-73-1	147	2.2	UD	13.2		
1,4-Dichlorobenzene	106-46-7	147	5.2	UD	31.3		
1,2-Dichlorobenzene	95-50-1	147	5.2	UD	31.3		
1,2,4-Trichlorobenzene	120-82-1	181.5	8.4	UD	62.4		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5.2	UD	55.5		
Naphthalene	91-20-3	128.17	0.52	UD	2.73		
1,3-Butadiene	106-99-0	54.09	2	UD	4.42		
4-Ethyltoluene	622-96-8	120.2	8.4	UD	41.3		
Hexane	110-54-3	86.17	6.4	UD	22.6		
Allyl Chloride	107-05-1	76.53	4.4	UD	13.8		
1,4-Dioxane	123-91-1	88.12	10.3	JD	37.1		
Methyl Methacrylate	80-62-6	100.117	5.6	UD	22.9		

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Project : CHADWICK SQUARE
Field Id Number : 16-SG-1DL2
Laboratory Id Number : Q3626-12DL2

Sampling Date : 11/12/25
Analysis Date : 11/20/25
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	66	UD	326		
Chloromethane	74-87-3	50.49	58.8	UD	121		
Vinyl Chloride	75-01-4	62.5	15	UD	38.3		
Bromomethane	74-83-9	94.94	46.2	UD	179		
Chloroethane	75-00-3	64.52	90	UD	237		
Tetrahydrofuran	109-99-9	72.11	48	UD	141		
Trichlorofluoromethane	75-69-4	137.4	100	UD	561		
Dichlorotetrafluoroethane	76-14-2	170.9	90	UD	629		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	84	UD	643		
tert-Butyl alcohol	75-65-0	74.12	96	UD	291		
Heptane	142-82-5	100.2	100	UD	409		
1,1-Dichloroethene	75-35-4	96.94	90	UD	356		
Acetone	67-64-1	58.08	4000	D	9501		
Carbon Disulfide	75-15-0	76.14	48	UD	149		
Methyl tert-Butyl Ether	1634-04-4	88.15	140	UD	504		
Methylene Chloride	75-09-2	84.94	140	UD	486		
trans-1,2-Dichloroethene	156-60-5	96.94	72	UD	285		
1,1-Dichloroethane	75-34-3	98.96	78	UD	315		
Cyclohexane	110-82-7	84.16	130	UD	447		
2-Butanone	78-93-3	72.11	33.6	UD	99.1		
Carbon Tetrachloride	56-23-5	153.8	15	UD	94.4		
cis-1,2-Dichloroethene	156-59-2	96.94	59.4	UD	235		
Chloroform	67-66-3	119.4	57.6	UD	281		
1,1,1-Trichloroethane	71-55-6	133.4	9.6	UD	52.4		
2,2,4-Trimethylpentane	540-84-1	114.2	84	UD	392		
Benzene	71-43-2	78.11	47.4	UD	151		
1,2-Dichloroethane	107-06-2	98.96	55.8	UD	225		
Trichloroethene	79-01-6	131.4	14.4	UD	77.4		
1,2-Dichloropropane	78-87-5	113	78	UD	360		
Bromodichloromethane	75-27-4	163.8	37.8	UD	253		
4-Methyl-2-Pentanone	108-10-1	100.2	58.2	UD	238		
Toluene	108-88-3	92.14	96	UD	361		
t-1,3-Dichloropropene	10061-02-6	111	90	UD	408		
cis-1,3-Dichloropropene	10061-01-5	111	66	UD	299		
1,1,2-Trichloroethane	79-00-5	133.4	48.6	UD	265		

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Project : CHADWICK SQUARE **Sampling Date :** 11/12/25

Field Id Number : 16-SG-1DL2 **Analysis Date :** 11/20/25

Laboratory Id Number : Q3626-12DL2 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	51	UD	434		
1,2-Dibromoethane	106-93-4	187.9	51	UD	391		
Tetrachloroethene	127-18-4	165.8	9	UD	61.0		
Chlorobenzene	108-90-7	112.6	46.2	UD	212		
Ethyl Benzene	100-41-4	106.2	110	UD	477		
m/p-Xylene	179601-23-1	106.2	250	UD	1085		
o-Xylene	95-47-6	106.2	130	UD	564		
Styrene	100-42-5	104.1	96	UD	408		
Bromoform	75-25-2	252.8	28.8	UD	297		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	10.8	UD	74.2		
2-Chlorotoluene	95-49-8	126.6	100	UD	517		
1,3,5-Trimethylbenzene	108-67-8	120.2	110	UD	540		
1,2,4-Trimethylbenzene	95-63-6	120.2	110	UD	540		
1,3-Dichlorobenzene	541-73-1	147	32.4	UD	194		
1,4-Dichlorobenzene	106-46-7	147	78	UD	468		
1,2-Dichlorobenzene	95-50-1	147	78	UD	468		
1,2,4-Trichlorobenzene	120-82-1	181.5	130	UD	965		
Hexachloro-1,3-Butadiene	87-68-3	260.8	78	UD	832		
Naphthalene	91-20-3	128.17	7.8	UD	40.9		
1,3-Butadiene	106-99-0	54.09	30.6	UD	67.7		
4-Ethyltoluene	622-96-8	120.2	130	UD	639		
Hexane	110-54-3	86.17	96	UD	338		
Allyl Chloride	107-05-1	76.53	66	UD	206		
1,4-Dioxane	123-91-1	88.12	130	UD	468		
Methyl Methacrylate	80-62-6	100.117	84	UD	343		

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.: Q3626

Client: RTP Environmental

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3626-01	9A-SG-1	1-Bromo-4-Fluorobenzene	10	10.3	103		70 (65)	130 (135)
Q3626-01DL	9A-SG-1DL	1-Bromo-4-Fluorobenzene	10	10.1	101		70 (65)	130 (135)
Q3626-02	9A-SG-2	1-Bromo-4-Fluorobenzene	10	9.86	99		70 (65)	130 (135)
Q3626-02DUP	9A-SG-2DUP	1-Bromo-4-Fluorobenzene	10	10.0	100		70 (65)	130 (135)
Q3626-03	9B-SG-1	1-Bromo-4-Fluorobenzene	10	9.87	99		70 (65)	130 (135)
Q3626-04	9B-SG-2	1-Bromo-4-Fluorobenzene	10	9.98	100		70 (65)	130 (135)
Q3626-04DL	9B-SG-2DL	1-Bromo-4-Fluorobenzene	10	9.90	99		70 (65)	130 (135)
Q3626-05	10-SG-1	1-Bromo-4-Fluorobenzene	10	9.98	100		70 (65)	130 (135)
Q3626-05DL	10-SG-1DL	1-Bromo-4-Fluorobenzene	10	9.44	94		70 (65)	130 (135)
Q3626-06	11-SG-1	1-Bromo-4-Fluorobenzene	10	9.79	98		70 (65)	130 (135)
Q3626-07	12-SG-1	1-Bromo-4-Fluorobenzene	10	9.99	100		70 (65)	130 (135)
Q3626-08	12-SG-2	1-Bromo-4-Fluorobenzene	10	9.88	99		70 (65)	130 (135)
Q3626-08DL	12-SG-2DL	1-Bromo-4-Fluorobenzene	10	10.1	101		70 (65)	130 (135)
Q3626-09	13-SG-1	1-Bromo-4-Fluorobenzene	10	10.0	100		70 (65)	130 (135)
Q3626-09DL	13-SG-1DL	1-Bromo-4-Fluorobenzene	10	9.51	95		70 (65)	130 (135)
Q3626-10	14-SG-1	1-Bromo-4-Fluorobenzene	10	9.96	100		70 (65)	130 (135)
Q3626-11	15-SG-1	1-Bromo-4-Fluorobenzene	10	10.1	101		70 (65)	130 (135)
Q3626-11DL	15-SG-1DL	1-Bromo-4-Fluorobenzene	10	9.79	98		70 (65)	130 (135)
Q3626-12	16-SG-1	1-Bromo-4-Fluorobenzene	10	9.89	99		70 (65)	130 (135)
Q3626-12DL	16-SG-1DL	1-Bromo-4-Fluorobenzene	10	9.69	97		70 (65)	130 (135)
Q3626-12DL2	16-SG-1DL2	1-Bromo-4-Fluorobenzene	10	9.80	98		70 (65)	130 (135)
VL1119ABL01	VL1119ABL01	1-Bromo-4-Fluorobenzene	10	9.98	100		70 (65)	130 (135)
VL1119ABS01	VL1119ABS01	1-Bromo-4-Fluorobenzene	10	10.3	103		70 (65)	130 (135)
VL1120ABL01	VL1120ABL01	1-Bromo-4-Fluorobenzene	10	9.96	100		70 (65)	130 (135)
VL1120ABS01	VL1120ABS01	1-Bromo-4-Fluorobenzene	10	10.5	105		70 (65)	130 (135)

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.:	**Q3626**	**Analytical Method:**	**SWTO-15**
Client:	**RTP Environmental**	**Datafile :**	VL043234.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL1119ABS01	Dichlorodifluoromethane	10	10.9	ppbv	109			40 (70)	160 (130)	
	Chloromethane	10	9.80	ppbv	98			40 (70)	160 (130)	
	Vinyl Chloride	10	9.30	ppbv	93			70 (70)	130 (130)	
	Bromomethane	10	10.6	ppbv	106			40 (70)	160 (130)	
	Chloroethane	10	9.30	ppbv	93			40 (70)	160 (130)	
	Tetrahydrofuran	10	8.30	ppbv	83			70 (70)	130 (130)	
	Trichlorofluoromethane	10	12.1	ppbv	121			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	11.4	ppbv	114			70 (70)	130 (130)	
	Dichlorotetrafluoethane	10	10.9	ppbv	109			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	10.2	ppbv	102			70 (70)	130 (130)	
	Heptane	10	8.20	ppbv	82			70 (70)	130 (130)	
	1,1-Dichloroethene	10	10.5	ppbv	105			70 (70)	130 (130)	
	Acetone	10	8.40	ppbv	84			40 (70)	160 (130)	
	Carbon disulfide	10	10.5	ppbv	105			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	10.4	ppbv	104			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	10.3	ppbv	103			70 (70)	130 (130)	
	Cyclohexane	10	9.30	ppbv	93			70 (70)	130 (130)	
	2-Butanone	10	8.80	ppbv	88			40 (70)	160 (130)	
	Carbon Tetrachloride	10	11.1	ppbv	111			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	9.80	ppbv	98			70 (70)	130 (130)	
	Chloroform	10	11.1	ppbv	111			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	10.9	ppbv	109			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	8.80	ppbv	88			70 (70)	130 (130)	
	Benzene	10	9.40	ppbv	94			70 (70)	130 (130)	
	1,2-Dichloroethane	10	10.6	ppbv	106			70 (70)	130 (130)	
	Trichloroethene	10	10.0	ppbv	100			70 (70)	130 (130)	
	1,2-Dichloropropane	10	9.20	ppbv	92			70 (70)	130 (130)	
	Bromodichloromethane	10	10.5	ppbv	105			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	8.50	ppbv	85			40 (70)	160 (130)	
	Toluene	10	9.30	ppbv	93			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	9.00	ppbv	90			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	9.00	ppbv	90			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	9.70	ppbv	97			70 (70)	130 (130)	
	Dibromochloromethane	10	10.8	ppbv	108			70 (70)	130 (130)	
	1,2-Dibromoethane	10	10.2	ppbv	102			70 (70)	130 (130)	
	Tetrachloroethene	10	9.90	ppbv	99			70 (70)	130 (130)	
	Chlorobenzene	10	10.0	ppbv	100			70 (70)	130 (130)	
	Ethyl Benzene	10	9.70	ppbv	97			70 (70)	130 (130)	
	m/p-Xylene	20	19.9	ppbv	100			70 (70)	130 (130)	
	o-Xylene	10	10.0	ppbv	100			70 (70)	130 (130)	
	Styrene	10	9.40	ppbv	94			70 (70)	130 (130)	
	Bromoform	10	11.1	ppbv	111			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	9.80	ppbv	98			70 (70)	130 (130)	
	2-Chlorotoluene	10	10.0	ppbv	100			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	10.0	ppbv	100			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	10.2	ppbv	102			70 (70)	130 (130)	

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.: Q3626 **Analytical Method:** SWTO-15

Client: RTP Environmental **Datafile :** VL043234.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL1119ABS01	1,3-Dichlorobenzene	10	10.7	ppbv	107			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	10.7	ppbv	107			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	10.5	ppbv	105			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	11.6	ppbv	116			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	10.6	ppbv	106			70 (70)	130 (130)	
	Naphthalene	10	10.7	ppbv	107			40 (70)	160 (130)	
	1,3-Butadiene	10	9.40	ppbv	94			70 (70)	130 (130)	
	4-Ethyltoluene	10	10.2	ppbv	102			70 (70)	130 (130)	
	Hexane	10	9.10	ppbv	91			70 (70)	130 (130)	
	Allyl Chloride	10	9.20	ppbv	92			70 (70)	130 (130)	
	1,4-Dioxane	10	9.40	ppbv	94			40 (70)	160 (130)	
	Methyl methacrylate	10	8.60	ppbv	86			70 (70)	130 (130)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3626**	**Analytical Method:**	**SWTO-15**
Client:	**RTP Environmental**	**Datafile :**	VL043260.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL1120ABS01	Dichlorodifluoromethane	10	11.5	ppbv	115			40 (70)	160 (130)	
	Chloromethane	10	10.3	ppbv	103			40 (70)	160 (130)	
	Vinyl Chloride	10	9.50	ppbv	95			70 (70)	130 (130)	
	Bromomethane	10	9.10	ppbv	91			40 (70)	160 (130)	
	Chloroethane	10	9.70	ppbv	97			40 (70)	160 (130)	
	Tetrahydrofuran	10	8.70	ppbv	87			70 (70)	130 (130)	
	Trichlorofluoromethane	10	12.4	ppbv	124			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	11.7	ppbv	117			70 (70)	130 (130)	
	Dichlorotetrafluoethane	10	11.0	ppbv	110			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	9.30	ppbv	93			70 (70)	130 (130)	
	Heptane	10	8.90	ppbv	89			70 (70)	130 (130)	
	1,1-Dichloroethene	10	10.6	ppbv	106			70 (70)	130 (130)	
	Acetone	10	8.50	ppbv	85			40 (70)	160 (130)	
	Carbon disulfide	10	10.9	ppbv	109			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	9.90	ppbv	99			70 (70)	130 (130)	
	Methylene Chloride	10	11.8	ppbv	118			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	10.6	ppbv	106			70 (70)	130 (130)	
	1,1-Dichloroethane	10	11.0	ppbv	110			70 (70)	130 (130)	
	Cyclohexane	10	9.60	ppbv	96			70 (70)	130 (130)	
	2-Butanone	10	9.30	ppbv	93			40 (70)	160 (130)	
	Carbon Tetrachloride	10	11.5	ppbv	115			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	10.0	ppbv	100			70 (70)	130 (130)	
	Chloroform	10	11.7	ppbv	117			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	11.2	ppbv	112			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	9.60	ppbv	96			70 (70)	130 (130)	
	Benzene	10	10.0	ppbv	100			70 (70)	130 (130)	
	1,2-Dichloroethane	10	11.3	ppbv	113			70 (70)	130 (130)	
	Trichloroethene	10	10.6	ppbv	106			70 (70)	130 (130)	
	1,2-Dichloropropane	10	9.70	ppbv	97			70 (70)	130 (130)	
	Bromodichloromethane	10	11.2	ppbv	112			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	8.90	ppbv	89			40 (70)	160 (130)	
	Toluene	10	9.60	ppbv	96			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	7.50	ppbv	75			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	7.80	ppbv	78			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	10.4	ppbv	104			70 (70)	130 (130)	
	Dibromochloromethane	10	10.9	ppbv	109			70 (70)	130 (130)	
	1,2-Dibromoethane	10	9.70	ppbv	97			70 (70)	130 (130)	
	Tetrachloroethene	10	10.4	ppbv	104			70 (70)	130 (130)	
	Chlorobenzene	10	10.7	ppbv	107			70 (70)	130 (130)	
	Ethyl Benzene	10	10.4	ppbv	104			70 (70)	130 (130)	
	m/p-Xylene	20	21.4	ppbv	107			70 (70)	130 (130)	
	o-Xylene	10	10.7	ppbv	107			70 (70)	130 (130)	
	Styrene	10	9.40	ppbv	94			70 (70)	130 (130)	
	Bromoform	10	11.0	ppbv	110			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	10.4	ppbv	104			70 (70)	130 (130)	
	2-Chlorotoluene	10	10.3	ppbv	103			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	10.6	ppbv	106			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	10.6	ppbv	106			70 (70)	130 (130)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3626**	**Analytical Method:**	**SWTO-15**
Client:	**RTP Environmental**	**Datafile :**	VL043260.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL1120ABS01	1,3-Dichlorobenzene	10	10.8	ppbv	108			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	10.6	ppbv	106			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	10.6	ppbv	106			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	10.8	ppbv	108			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	10.0	ppbv	100			70 (70)	130 (130)	
	Naphthalene	10	9.80	ppbv	98			40 (70)	160 (130)	
	1,3-Butadiene	10	9.80	ppbv	98			70 (70)	130 (130)	
	4-Ethyltoluene	10	10.5	ppbv	105			70 (70)	130 (130)	
	Hexane	10	9.50	ppbv	95			70 (70)	130 (130)	
	Allyl Chloride	10	8.80	ppbv	88			70 (70)	130 (130)	
	1,4-Dioxane	10	8.20	ppbv	82			40 (70)	160 (130)	
	Methyl methacrylate	10	8.90	ppbv	89			70 (70)	130 (130)	

( ) = LABORATORY INHOUSE LIMIT

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Duplicate Sample Summary

Lab Sample Id :	Q3626-02DUP		Q3626-02	
Client Id :	9A-SG-2DUP		9A-SG-2	
DF :	2		2	
Datafile :	VL043249.D		VL043236.D	
Anal Date & Time :	11/19/2025	21:01	11/19/2025	13:17

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0.08	0.09	11.8
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	0.48	0.55	13.6
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	15.9	16	0.63
Allyl Chloride	0	0	0
Benzene	0.27	0.29	7.1
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0.7	0.76	8.2
Carbon Tetrachloride	0.07	0.07	0

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Duplicate Sample Summary

Lab Sample Id :	Q3626-02DUP		Q3626-02	
Client Id :	9A-SG-2DUP		9A-SG-2	
DF :	2		2	
Datafile :	VL043249.D		VL043236.D	
Anal Date & Time :	11/19/2025	21:01	11/19/2025	13:17

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	3.7	4	7.8
Chloromethane	0	0	0
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.58	0.52	10.9
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	4.5	1.5	100 *
m/p-Xylene	0	0	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	8.4	2.7	100 *
Naphthalene	0	0	0
o-Xylene	0	0	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0.93	0.96	3.2
Tetrachloroethene	1.3	1.5	14.3
Tetrahydrofuran	0	0	0
Toluene	0.33	0	200 *
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0.22	0.26	16.7
Trichlorofluoromethane	0.61	0.71	15.2
Vinyl Chloride	0	0	0

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VOLATILE METHOD BLANK SUMMARY

Client ID: VL1119ABL01

Lab Name: Alliance | Contract: RTPE01

Lab Code: ACE | SDG NO.: Q3626

Lab File ID: VL043233.D | Lab Sample ID: VL1119ABL01

Date Analyzed: 11/19/2025 | Time Analyzed: 11:11

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
VL1119ABS01	VL1119ABS01	VL043234.D	11/19/2025
9A-SG-1	Q3626-01	VL043235.D	11/19/2025
9A-SG-2	Q3626-02	VL043236.D	11/19/2025
9B-SG-1	Q3626-03	VL043237.D	11/19/2025
9B-SG-2	Q3626-04	VL043238.D	11/19/2025
10-SG-1	Q3626-05	VL043239.D	11/19/2025
11-SG-1	Q3626-06	VL043240.D	11/19/2025
12-SG-1	Q3626-07	VL043241.D	11/19/2025
12-SG-2	Q3626-08	VL043242.D	11/19/2025
13-SG-1	Q3626-09	VL043243.D	11/19/2025
14-SG-1	Q3626-10	VL043244.D	11/19/2025
15-SG-1	Q3626-11	VL043245.D	11/19/2025
16-SG-1	Q3626-12	VL043246.D	11/19/2025
16-SG-1DL	Q3626-12DL	VL043247.D	11/19/2025
9A-SG-1DL	Q3626-01DL	VL043248.D	11/19/2025
9A-SG-2DUP	Q3626-02DUP	VL043249.D	11/19/2025
9B-SG-2DL	Q3626-04DL	VL043250.D	11/19/2025
10-SG-1DL	Q3626-05DL	VL043251.D	11/19/2025
12-SG-2DL	Q3626-08DL	VL043252.D	11/19/2025
15-SG-1DL	Q3626-11DL	VL043253.D	11/19/2025
16-SG-1DL2	Q3626-12DL2	VL043254.D	11/20/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VL1120ABL01

Lab Name: Alliance | Contract: RTPE01

Lab Code: ACE | SDG NO.: Q3626

Lab File ID: VL043258.D | Lab Sample ID: VL1120ABL01

Date Analyzed: 11/20/2025 | Time Analyzed: 11:01

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
VL1120ABS01	VL1120ABS01	VL043260.D	11/20/2025
13-SG-1DL	Q3626-09DL	VL043275.D	11/21/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: RTPE01

Lab Code: ACE | SDG NO.: Q3626

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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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: RTPE01
Lab Code: ACE
SDG NO.: Q3626
Lab File ID: VL043231.D
BFB Injection Date: 11/19/2025
Instrument ID: MSVOA_L
BFB Injection Time: 08:43
GC Column: RTX-1 ID: 0.32 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.6
75	30.0 - 66.0% of mass 95	59.7
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	0.4 (0.6) 1
174	50.0 - 120.0% of mass 95	66.5
175	4.0 - 9.0% of mass 174	5 (7.6) 1
176	93.0 - 101.0% of mass 174	64.9 (97.6) 1
177	5.0 - 9.0% of mass 176	4.2 (6.4) 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	VL043232.D	11/19/2025	09:31
VL1119ABL01	VL1119ABL01	VL043233.D	11/19/2025	11:11
VL1119ABS01	VL1119ABS01	VL043234.D	11/19/2025	11:56
9A-SG-1	Q3626-01	VL043235.D	11/19/2025	12:43
9A-SG-2	Q3626-02	VL043236.D	11/19/2025	13:17
9B-SG-1	Q3626-03	VL043237.D	11/19/2025	13:50
9B-SG-2	Q3626-04	VL043238.D	11/19/2025	14:25
10-SG-1	Q3626-05	VL043239.D	11/19/2025	14:59
11-SG-1	Q3626-06	VL043240.D	11/19/2025	15:32
12-SG-1	Q3626-07	VL043241.D	11/19/2025	16:06
12-SG-2	Q3626-08	VL043242.D	11/19/2025	16:39
13-SG-1	Q3626-09	VL043243.D	11/19/2025	17:13
14-SG-1	Q3626-10	VL043244.D	11/19/2025	17:47
15-SG-1	Q3626-11	VL043245.D	11/19/2025	18:21
16-SG-1	Q3626-12	VL043246.D	11/19/2025	18:55
16-SG-1DL	Q3626-12DL	VL043247.D	11/19/2025	19:52
9A-SG-1DL	Q3626-01DL	VL043248.D	11/19/2025	20:25
9A-SG-2DUP	Q3626-02DUP	VL043249.D	11/19/2025	21:01

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: RTPE01

Lab Code: ACE | SDG NO.: Q3626

Lab File ID: VL043231.D | BFB Injection Date: 11/19/2025

Instrument ID: MSVOA_L | BFB Injection Time: 08:43

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.6
75	30.0 - 66.0% of mass 95	59.7
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	0.4 (0.6) 1
174	50.0 - 120.0% of mass 95	66.5
175	4.0 - 9.0% of mass 174	5 (7.6) 1
176	93.0 - 101.0% of mass 174	64.9 (97.6) 1
177	5.0 - 9.0% of mass 176	4.2 (6.4) 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
9B-SG-2DL	Q3626-04DL	VL043250.D	11/19/2025	21:33
10-SG-1DL	Q3626-05DL	VL043251.D	11/19/2025	22:07
12-SG-2DL	Q3626-08DL	VL043252.D	11/19/2025	22:39
15-SG-1DL	Q3626-11DL	VL043253.D	11/19/2025	23:12
16-SG-1DL2	Q3626-12DL2	VL043254.D	11/20/2025	07:35

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: RTPE01

Lab Code: ACE | SDG NO.: Q3626

Lab File ID: VL043256.D | BFB Injection Date: 11/20/2025

Instrument ID: MSVOA_L | BFB Injection Time: 08:41

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.5
75	30.0 - 66.0% of mass 95	62.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (1) 1
174	50.0 - 120.0% of mass 95	63.3
175	4.0 - 9.0% of mass 174	4.6 (7.3) 1
176	93.0 - 101.0% of mass 174	61.1 (96.5) 1
177	5.0 - 9.0% of mass 176	3.7 (6.1) 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	VL043257.D	11/20/2025	10:14
VL1120ABL01	VL1120ABL01	VL043258.D	11/20/2025	11:01
VL1120ABS01	VL1120ABS01	VL043260.D	11/20/2025	12:07
13-SG-1DL	Q3626-09DL	VL043275.D	11/21/2025	07:53

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: RTPE01

Lab Code: ACE SDG NO.: Q3626

Lab File ID: VL043232.D Date Analyzed: 11/19/2025

Instrument ID: MSVOA_L Time Analyzed: 09:31

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	92858	2.78	261062	3.95	210840	8.88
UPPER LIMIT	130001	3.11	365487	4.28	295176	9.21
LOWER LIMIT	55714.8	2.45	156637	3.62	126504	8.55
EPA SAMPLE NO.						
9A-SG-1	106377	2.79	292792	3.96	229139	8.88
9A-SG-1DL	101838	2.78	273802	3.95	211877	8.87
9A-SG-2	105026	2.78	292365	3.95	227868	8.88
9A-SG-2DUP	99705	2.78	276826	3.95	209824	8.87
9B-SG-1	102616	2.78	290774	3.95	231142	8.87
9B-SG-2	103574	2.78	291331	3.96	223974	8.88
9B-SG-2DL	98441	2.78	273742	3.95	208879	8.87
10-SG-1	103410	2.79	285776	3.96	221762	8.88
10-SG-1DL	98540	2.78	260350	3.95	200769	8.87
11-SG-1	105671	2.78	288442	3.95	236337	8.87
12-SG-1	103097	2.78	289304	3.96	221774	8.87
12-SG-2	105972	2.78	291718	3.95	225662	8.87
12-SG-2DL	100214	2.78	269502	3.95	209321	8.87
13-SG-1	101617	2.79	283781	3.96	218981	8.88
14-SG-1	106615	2.78	284605	3.95	227663	8.87
15-SG-1	105038	2.78	285629	3.95	229034	8.87
15-SG-1DL	97568	2.78	261435	3.95	198573	8.87
16-SG-1	107506	2.78	305536	3.96	246745	8.87
16-SG-1DL	102231	2.78	281627	3.95	224034	8.87
16-SG-1DL2	101416	2.78	271635	3.95	204048	8.87
VL1119ABL01	100515	2.79	277905	3.96	219972	8.88
VL1119ABS01	103562	2.78	284672	3.95	231008	8.87

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: RTPE01

Lab Code: ACE SDG NO.: Q3626

Lab File ID: VL043232.D Date Analyzed: 11/19/2025

Instrument ID: MSVOA_L Time Analyzed: 09:31

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	92858	2.78	261062	3.95	210840	8.88
UPPER LIMIT	130001	3.11	365487	4.28	295176	9.21
LOWER LIMIT	55714.8	2.45	156637	3.62	126504	8.55
EPA SAMPLE NO.						

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: RTPE01

Lab Code: ACE SDG NO.: Q3626

Lab File ID: VL043257.D Date Analyzed: 11/20/2025

Instrument ID: MSVOA_L Time Analyzed: 10:14

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	102759	2.78	275595	3.94	222776	8.87
UPPER LIMIT	143863	3.11	385833	4.27	311886	9.20
LOWER LIMIT	61655.4	2.45	165357	3.61	133666	8.54
EPA SAMPLE NO.						
13-SG-1DL	99850	2.79	261008	3.96	202177	8.88
VL1120ABL01	105521	2.78	275399	3.95	211341	8.87
VL1120ABS01	101372	2.78	270113	3.95	214473	8.88

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

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

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

SAMPLE DATA

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	9A-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-01	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	0.52	2.57	J	2	1.09	4.94	11/19/25 12:43	VL111925
74-87-3	Chloromethane	0.58	1.20	J	2	0.41	2.07	11/19/25 12:43	VL111925
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/19/25 12:43	VL111925
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/19/25 12:43	VL111925
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/19/25 12:43	VL111925
109-99-9	Tetrahydrofuran	0.16	0.47	U	2	0.47	2.95	11/19/25 12:43	VL111925
75-69-4	Trichlorofluoromethane	0.34	1.91	U	2	1.91	5.62	11/19/25 12:43	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/19/25 12:43	VL111925
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/19/25 12:43	VL111925
75-65-0	tert-Butyl alcohol	0.35	1.06	J	2	0.97	3.03	11/19/25 12:43	VL111925
142-82-5	Heptane	2.60	10.7		2	1.39	4.10	11/19/25 12:43	VL111925
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/19/25 12:43	VL111925
67-64-1	Acetone	31.2	74.1	E	2	0.86	2.38	11/19/25 12:43	VL111925
75-15-0	Carbon Disulfide	0.47	1.46	J	2	0.50	3.11	11/19/25 12:43	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/19/25 12:43	VL111925
75-09-2	Methylene Chloride	0.46	1.60	U	2	1.60	3.47	11/19/25 12:43	VL111925
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/19/25 12:43	VL111925
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/19/25 12:43	VL111925
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/19/25 12:43	VL111925
78-93-3	2-Butanone	2.00	5.90		2	0.32	2.95	11/19/25 12:43	VL111925
56-23-5	Carbon Tetrachloride	0.070	0.44		2	0.31	0.38	11/19/25 12:43	VL111925
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/19/25 12:43	VL111925
67-66-3	Chloroform	0.19	0.93	U	2	0.93	4.88	11/19/25 12:43	VL111925
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	2	0.16	0.33	11/19/25 12:43	VL111925
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/19/25 12:43	VL111925
71-43-2	Benzene	0.40	1.28	J	2	0.51	3.19	11/19/25 12:43	VL111925
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/19/25 12:43	VL111925
79-01-6	Trichloroethene	0.11	0.59		2	0.27	0.32	11/19/25 12:43	VL111925
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/19/25 12:43	VL111925
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/19/25 12:43	VL111925
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	U	2	0.78	4.10	11/19/25 12:43	VL111925
108-88-3	Toluene	0.51	1.92	J	2	1.21	3.77	11/19/25 12:43	VL111925
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/19/25 12:43	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/19/25 12:43	VL111925
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/19/25 12:43	VL111925
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/19/25 12:43	VL111925
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/19/25 12:43	VL111925
127-18-4	Tetrachloroethene	23.0	156		2	0.20	0.41	11/19/25 12:43	VL111925
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/19/25 12:43	VL111925
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/19/25 12:43	VL111925
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/19/25 12:43	VL111925
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/19/25 12:43	VL111925
100-42-5	Styrene	1.20	5.11		2	1.36	4.26	11/19/25 12:43	VL111925
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/19/25 12:43	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/19/25 12:43	VL111925
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/19/25 12:43	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	9A-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-01	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	0.36	1.77	U	2	1.77	4.92	11/19/25 12:43	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 12:43	VL111925
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/19/25 12:43	VL111925
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 12:43	VL111925
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 12:43	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/19/25 12:43	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/19/25 12:43	VL111925
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/19/25 12:43	VL111925
91-20-3	Naphthalene	0.21	1.10		2	0.16	1.05	11/19/25 12:43	VL111925
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/19/25 12:43	VL111925
110-54-3	Hexane	4.30	15.2		2	1.13	3.52	11/19/25 12:43	VL111925
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/19/25 12:43	VL111925
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/19/25 12:43	VL111925
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/19/25 12:43	VL111925
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	106000							
540-36-3	1,4-Difluorobenzene	293000							
3114-55-4	Chlorobenzene-d5	229000							

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\VL111925\
Data File : VL043235.D
Acq On : 19 Nov 2025 12:43
Operator : SY/MD
Sample : Q3626-01 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:03:50 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 :
9A-SG-1

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	2.787	49	106377	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	292792	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.879	117	229139	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	172437	10.267	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3925	0.262	ppbv		99
3) Chlorodifluoromethane	1.476	51	1639m	0.111	ppbv		
4) Chloromethane	1.532	50	1622	0.289	ppbv	#	88
9) Propene	1.486	41	11523	1.839	ppbv	#	1
10) Heptane	4.982	43	24157	1.295	ppbv		94
11) Trichlorofluoromethane	1.881	101	1771	0.122	ppbv		94
13) Ethanol	1.722	45	47879	21.731	ppbv		99
15) Acetone	1.836	43	230501	15.596	ppbv		98
17) tert-Butyl alcohol	2.043	59	3443	0.177	ppbv	#	91
19) Isopropyl Alcohol	1.888	45	29482	3.530	ppbv	#	1
20) Methylene Chloride	2.062	84	4140	0.180	ppbv		93
26) Hexane	2.826	57	30379	2.174	ppbv	#	43
27) Carbon Disulfide	2.153	76	3349	0.235	ppbv	#	51
34) 2-Butanone	2.558	43	20420	0.988	ppbv		99
35) Carbon Tetrachloride	3.758	117	734m	0.033	ppbv		
36) Benzene	3.661	78	5671	0.202	ppbv	#	93
38) Trichloroethene	4.545	130	625m	0.057	ppbv		
52) Tetrachloroethene	8.225	164	119688	11.475	ppbv		95
53) Toluene	6.933	91	8500m	0.256	ppbv		
58) Ethyl Benzene	9.351	91	4481m	0.102	ppbv		
59) m/p-Xylene	9.532	91	7823	0.221	ppbv		94
60) o-Xylene	9.960	91	3639	0.103	ppbv		96
61) Styrene	9.869	104	8898	0.576	ppbv		94
74) 1,2,4-Trimethylbenzene	11.536	105	5098	0.129	ppbv	#	53
79) Naphthalene	13.517	128	3660m	0.105	ppbv		

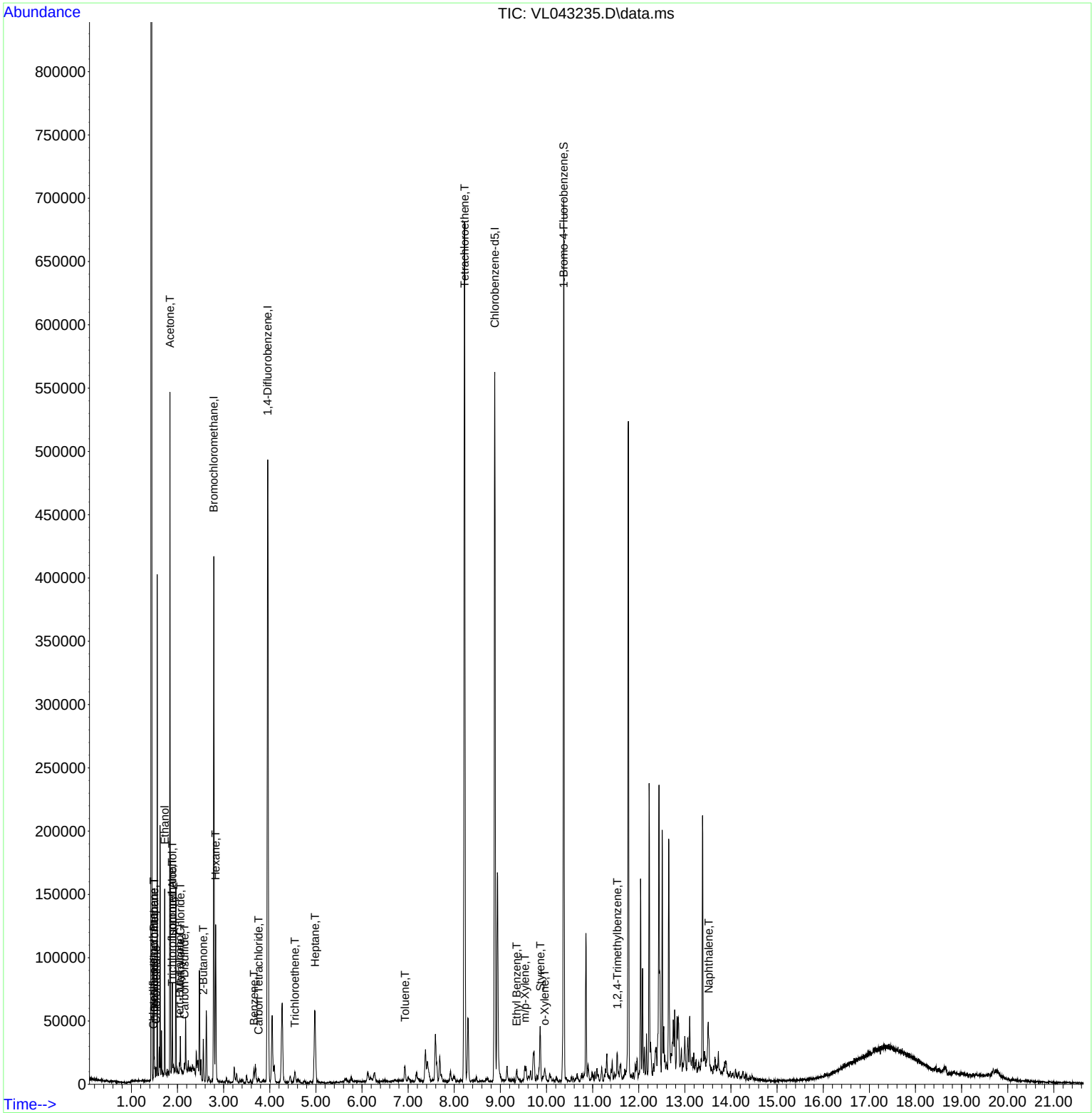
(#) = qualifier out of range (m) = manual integration (+) = signals summed

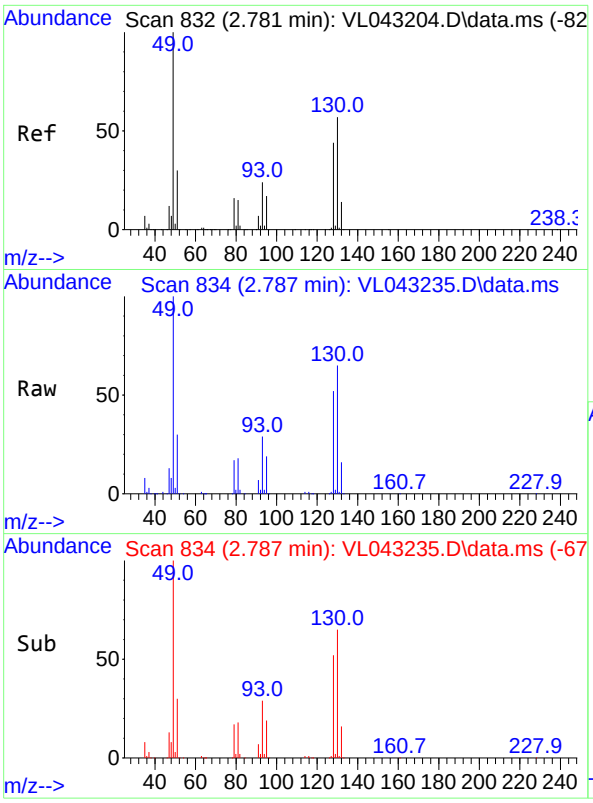
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043235.D
Acq On : 19 Nov 2025 12:43
Operator : SY/MD
Sample : Q3626-01 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:03:50 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 :
9A-SG-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

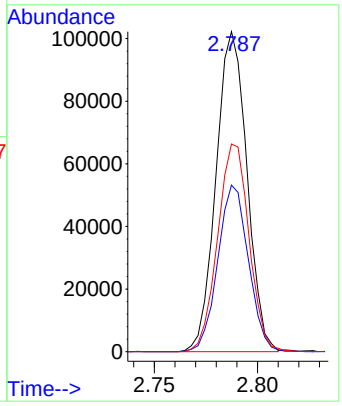




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 49 Resp: 10637

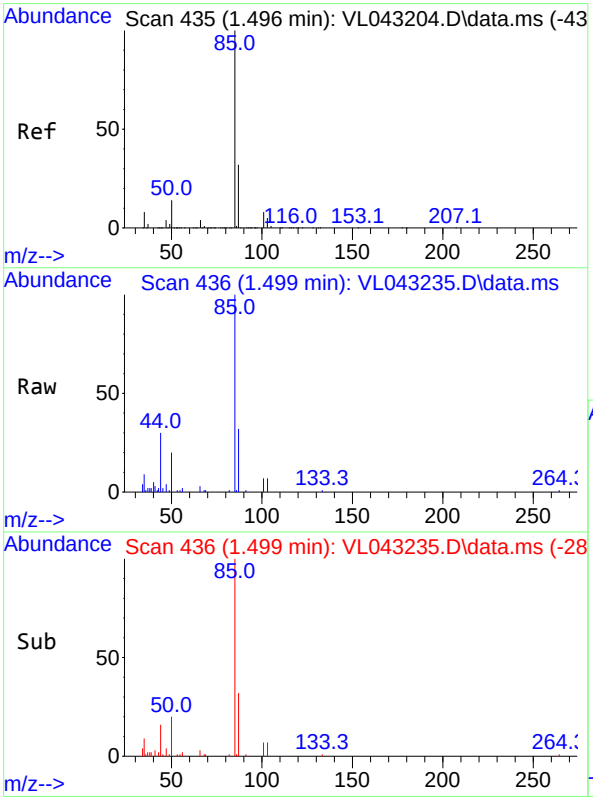
Ion	Ratio	Lower	Upper
49	100		
128	51.6	23.0	69.0
130	66.0	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Manual Integrations
APPROVED

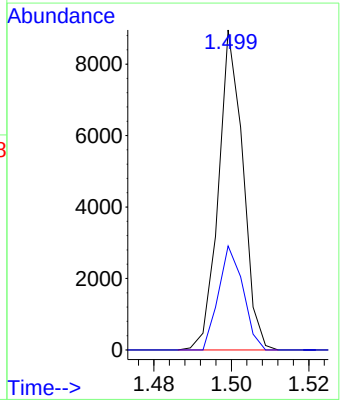
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

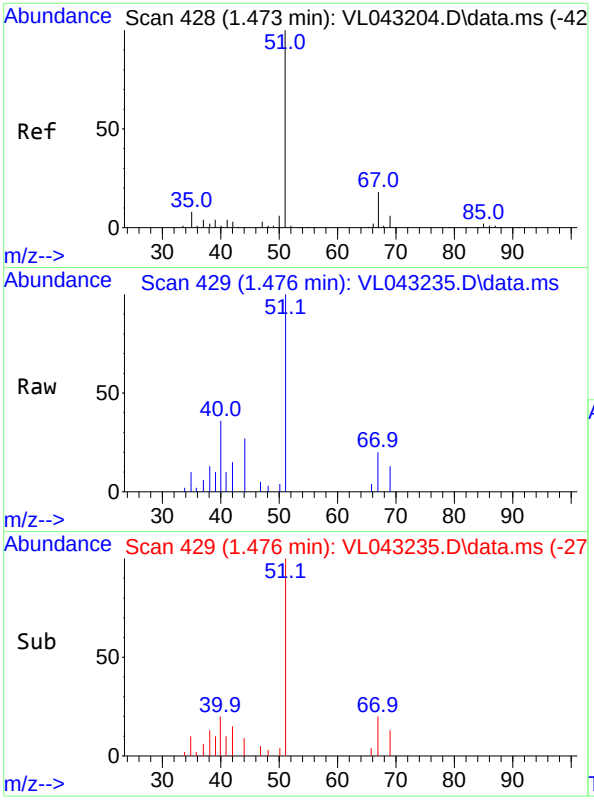


#2
Dichlorodifluoromethane
Concen: 0.262 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 85 Resp: 3925

Ion	Ratio	Lower	Upper
85	100		
87	32.5	25.4	38.2

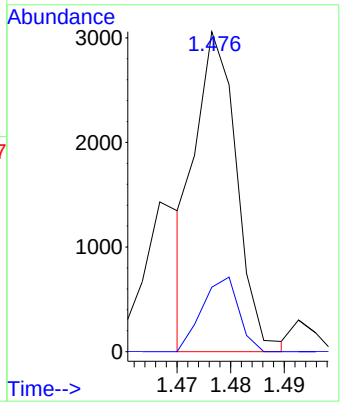




#3
Chlorodifluoromethane
Concen: 0.111 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 51 Resp: 163

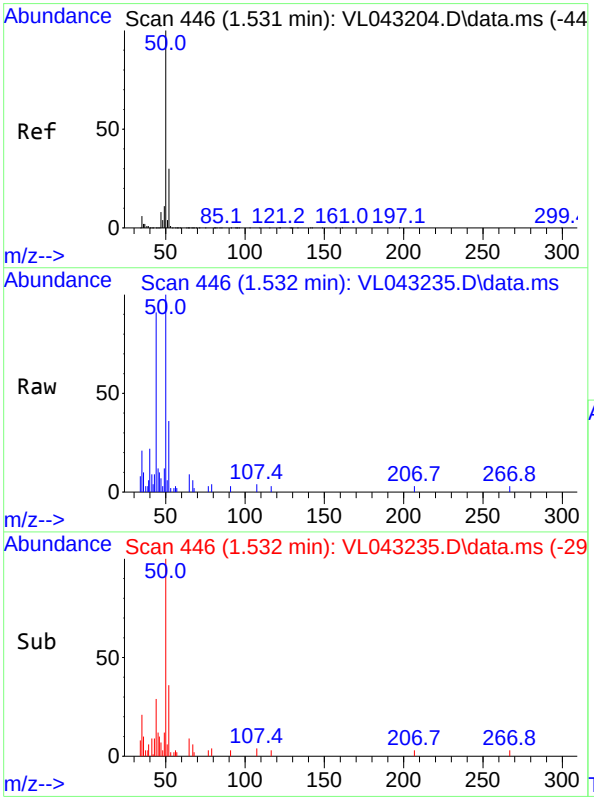
Ion	Ratio	Lower	Upper
51	100		
67	20.7	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Manual Integrations
APPROVED

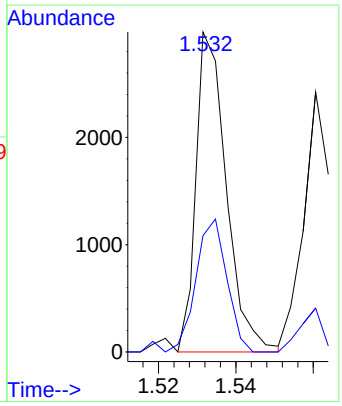
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

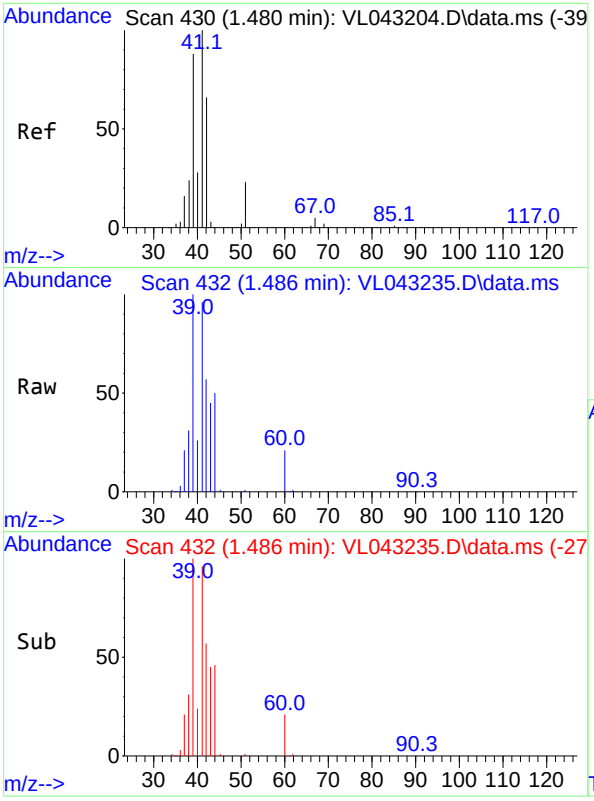


#4
Chloromethane
Concen: 0.289 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 50 Resp: 1622

Ion	Ratio	Lower	Upper
50	100		
52	36.4	24.1	36.1#

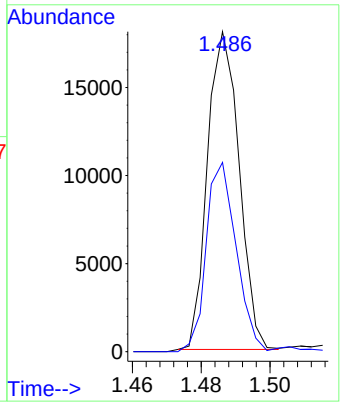




#9
Propene
Concen: 1.839 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 41 Resp: 1152

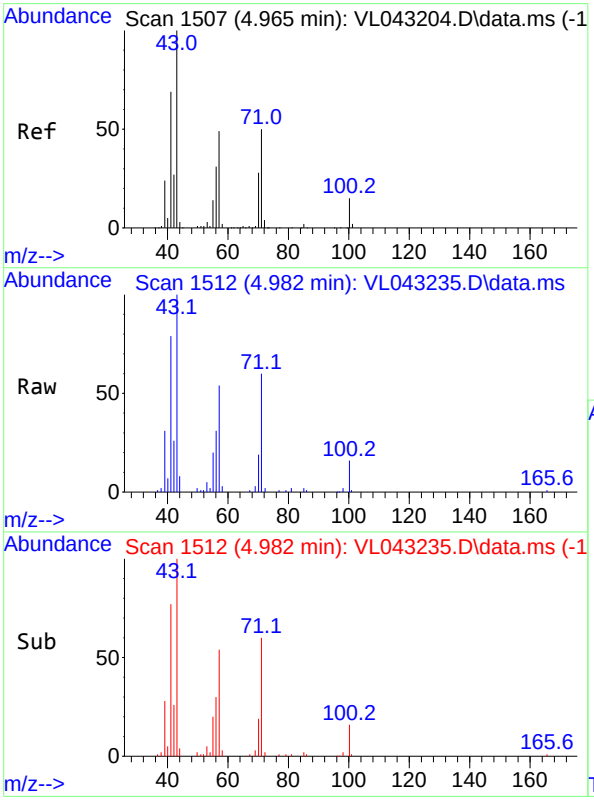
Ion	Ratio	Lower	Upper
41	100		
42	59.0	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Manual Integrations
APPROVED

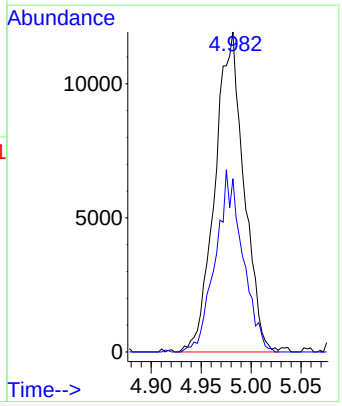
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

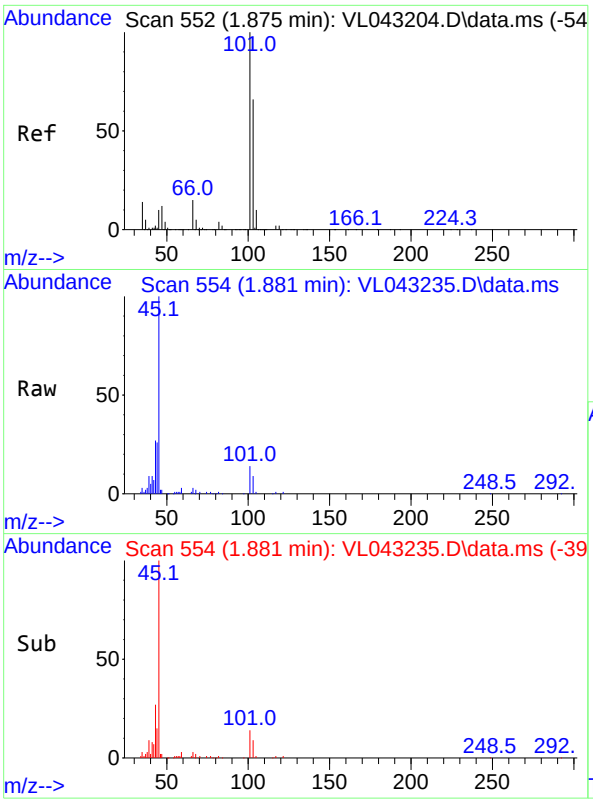


#10
Heptane
Concen: 1.295 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.016 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 43 Resp: 24157

Ion	Ratio	Lower	Upper
43	100		
57	53.5	39.7	59.5

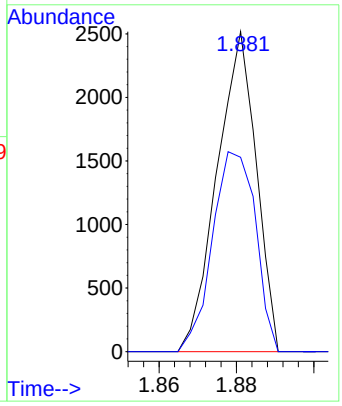




#11
Trichlorofluoromethane
Concen: 0.122 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:101 Resp: 177

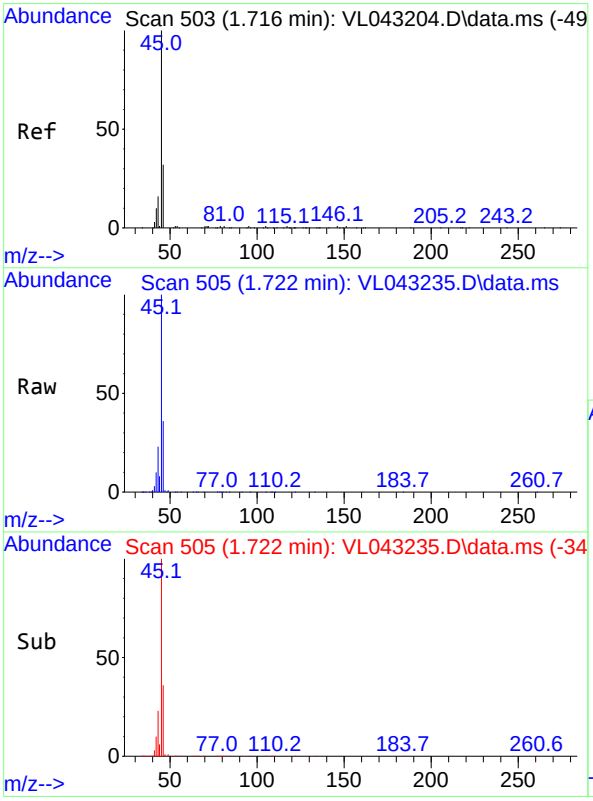
Ion	Ratio	Lower	Upper
101	100		
103	60.7	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Manual Integrations
APPROVED

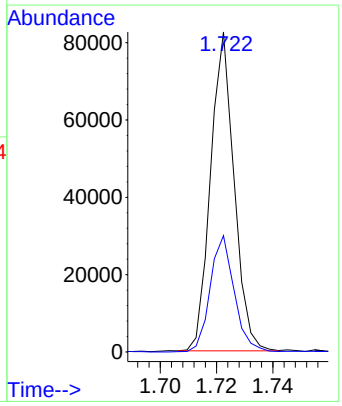
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

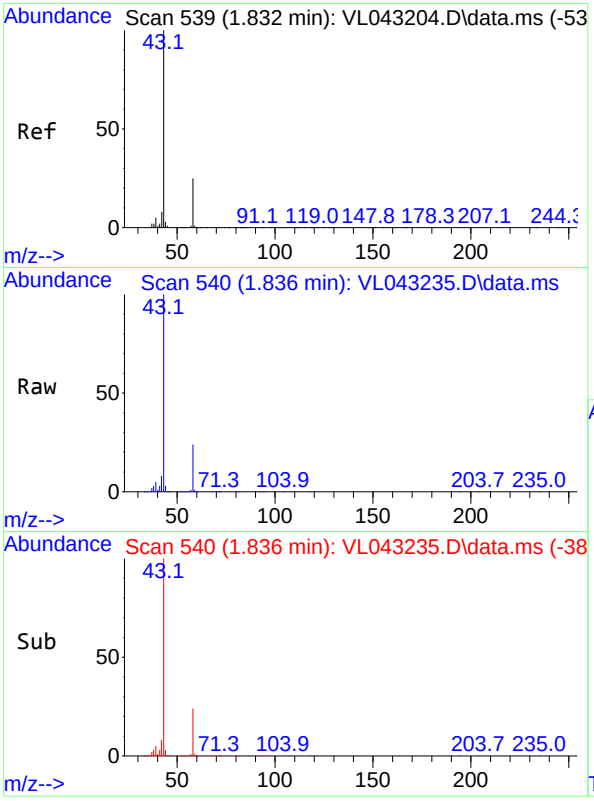


#13
Ethanol
Concen: 21.731 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 45 Resp: 47879

Ion	Ratio	Lower	Upper
45	100		
46	37.8	15.0	59.8

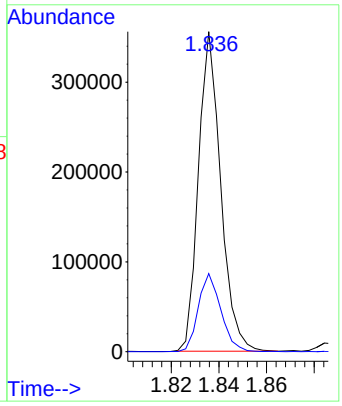




#15
Acetone
Concen: 15.596 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 43 Resp: 23050

Ion	Ratio	Lower	Upper
43	100		
58	24.8	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
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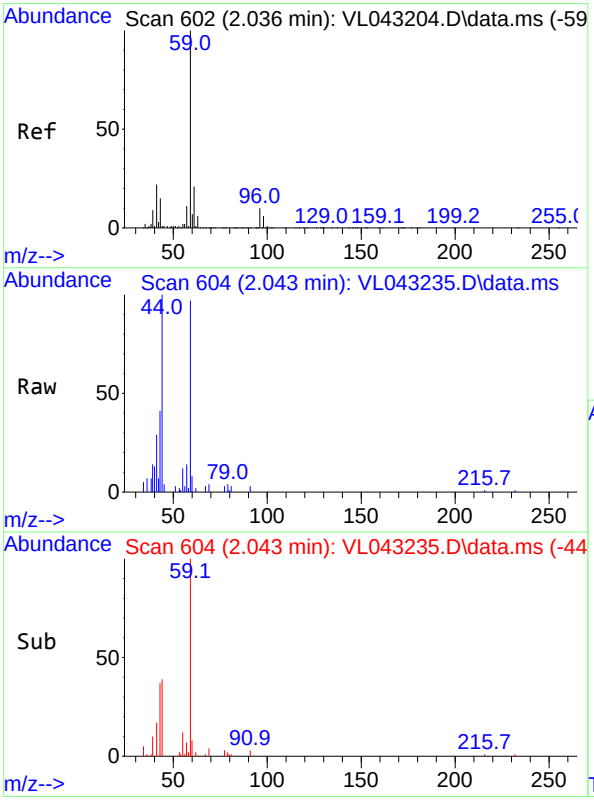
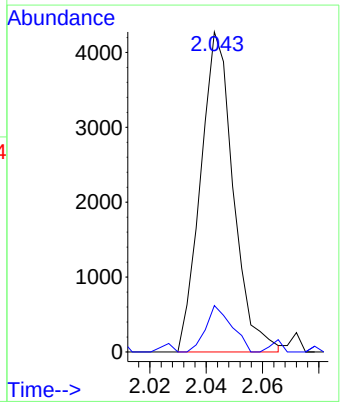
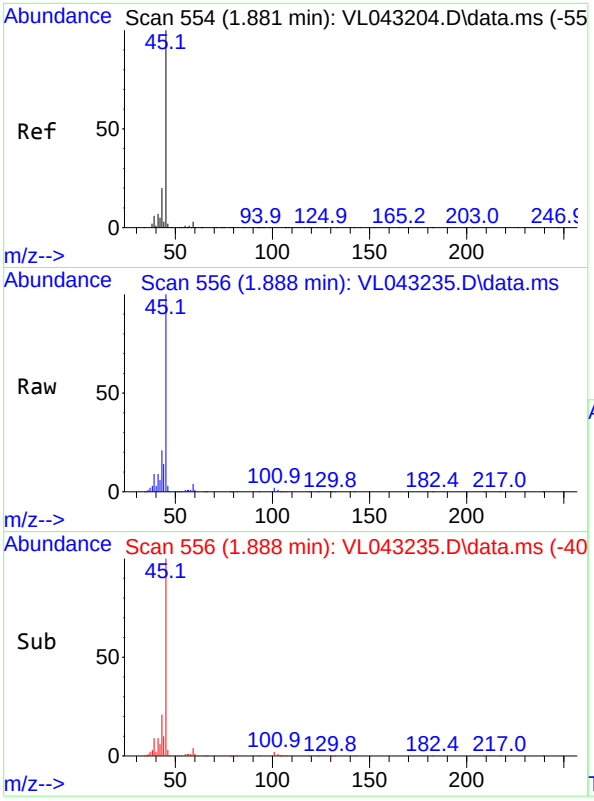


#17
tert-Butyl alcohol
Concen: 0.177 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 59 Resp: 3443

Ion	Ratio	Lower	Upper
59	100		
57	14.8	9.0	13.4#

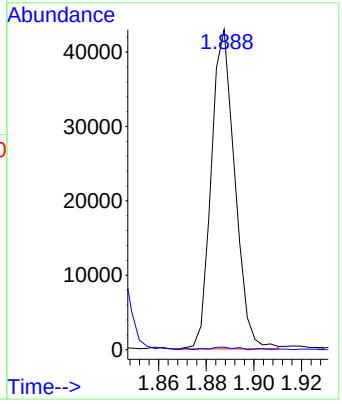




#19
Isopropyl Alcohol
Concen: 3.530 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 45 Resp: 2948

Ion	Ratio	Lower	Upper
45	100		
58	194.3	31.3	46.9



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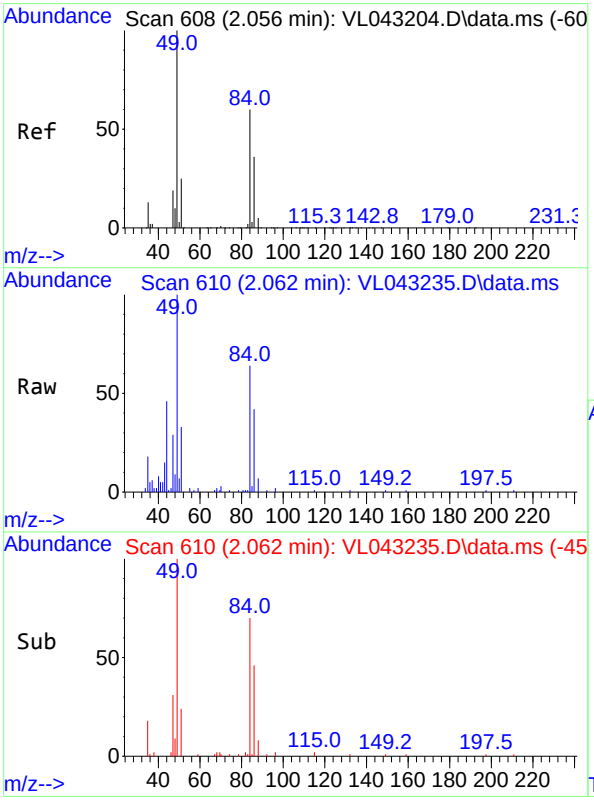
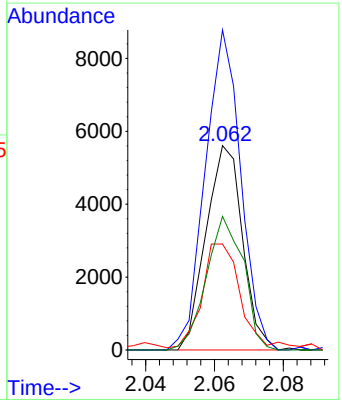
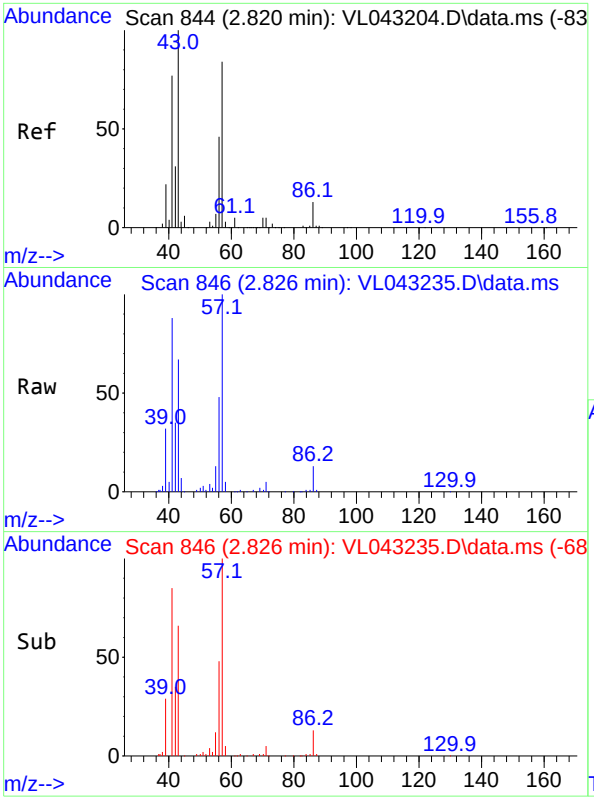


#20
Methylene Chloride
Concen: 0.180 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 84 Resp: 4140

Ion	Ratio	Lower	Upper
84	100		
49	156.6	132.9	199.3
51	50.0	34.8	52.2
86	65.4	48.2	72.2

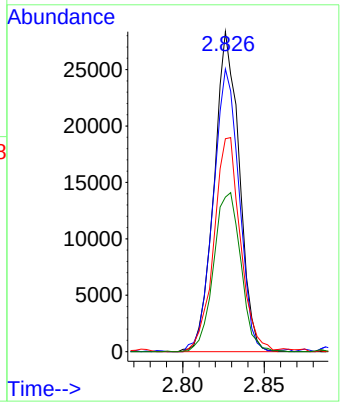




#26
Hexane
Concen: 2.174 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 57 Resp: 3037

Ion	Ratio	Lower	Upper
57	100		
41	91.0	74.6	111.8
43	71.4	179.0	268.4#
56	54.1	42.3	63.5



Instrument :
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ClientSampleId :
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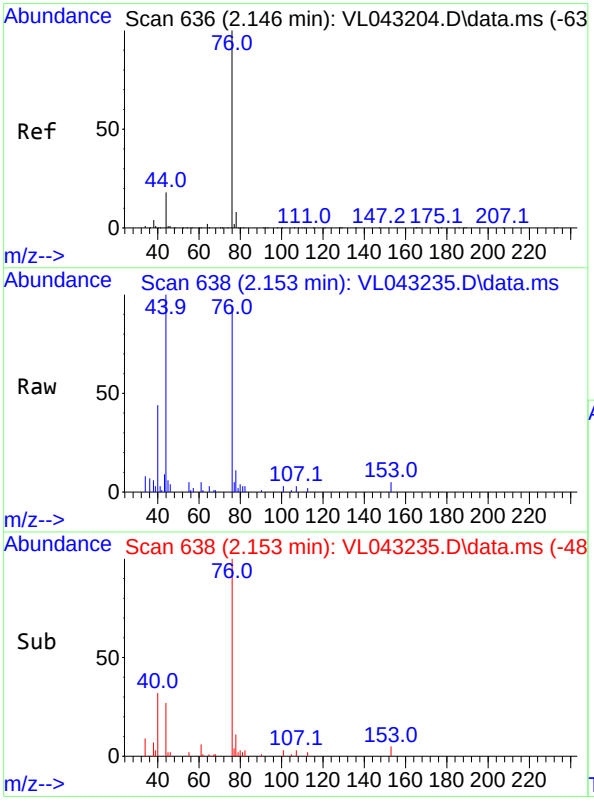
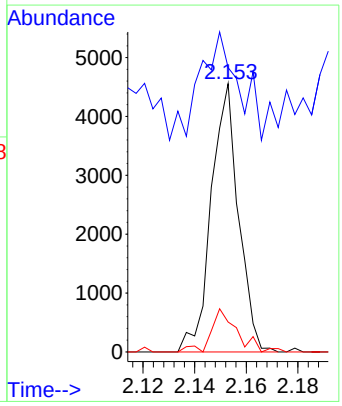
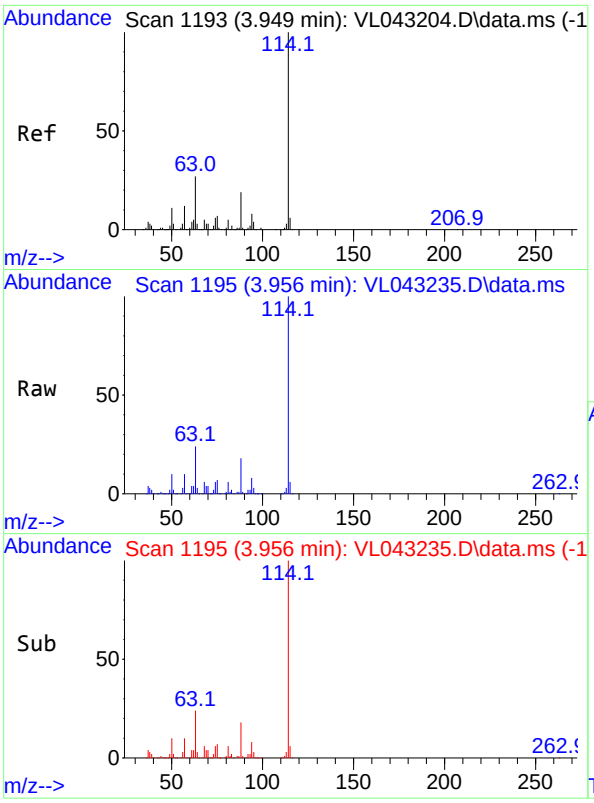


#27
Carbon Disulfide
Concen: 0.235 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 76 Resp: 3349

Ion	Ratio	Lower	Upper
76	100		
44	53.5	16.1	24.1#
78	15.4	9.6	14.4#

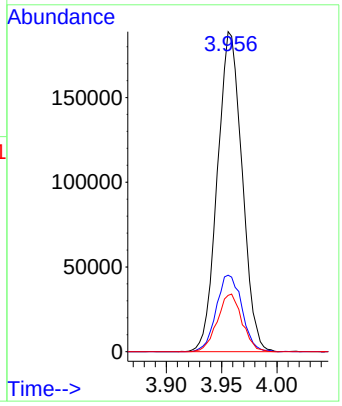




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:114 Resp: 29279

Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.0	31.6
88	18.0	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
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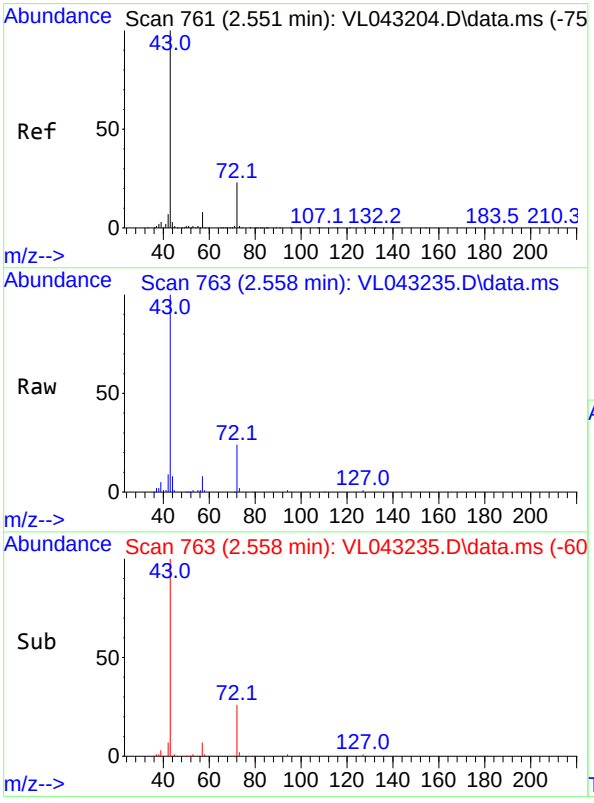
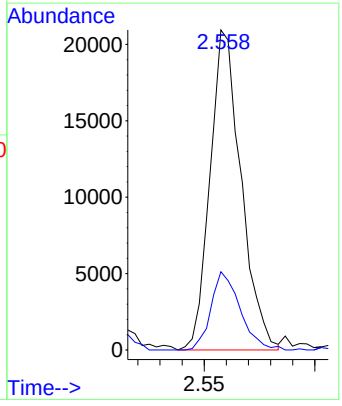
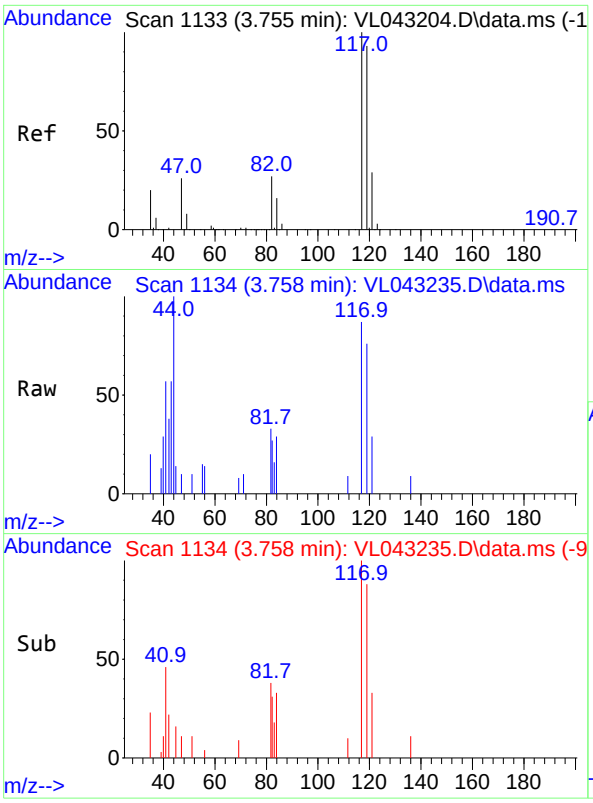


#34
2-Butanone
Concen: 0.988 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 43 Resp: 20420

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.1	27.1

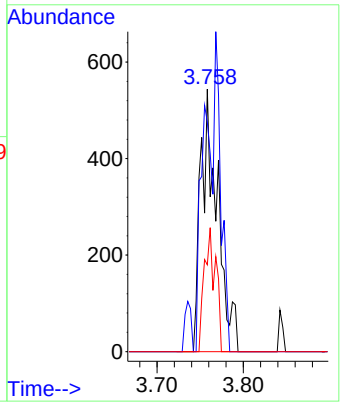




#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.758 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:117 Resp: 73

Ion	Ratio	Lower	Upper
117	100		
119	87.5	74.6	112.0
121	33.1	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

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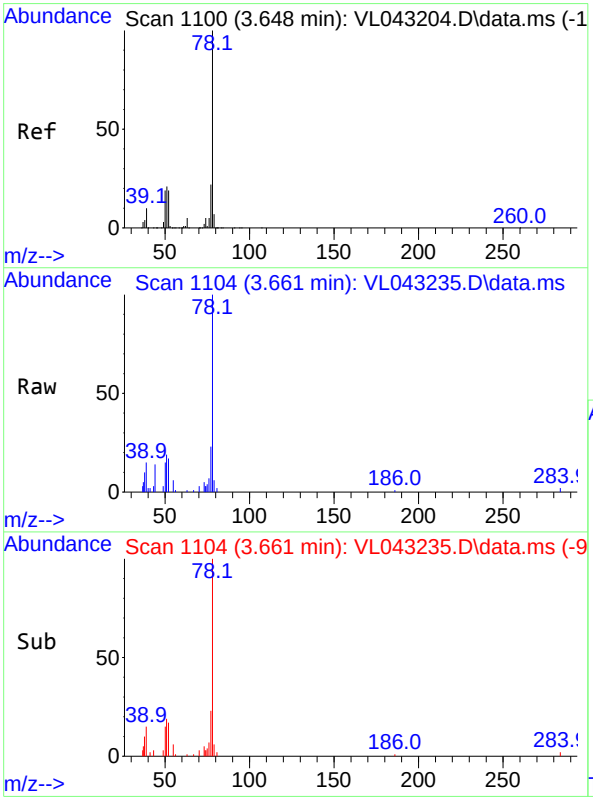
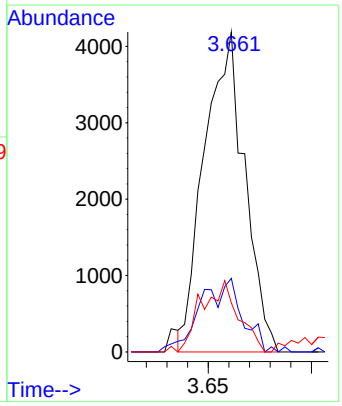
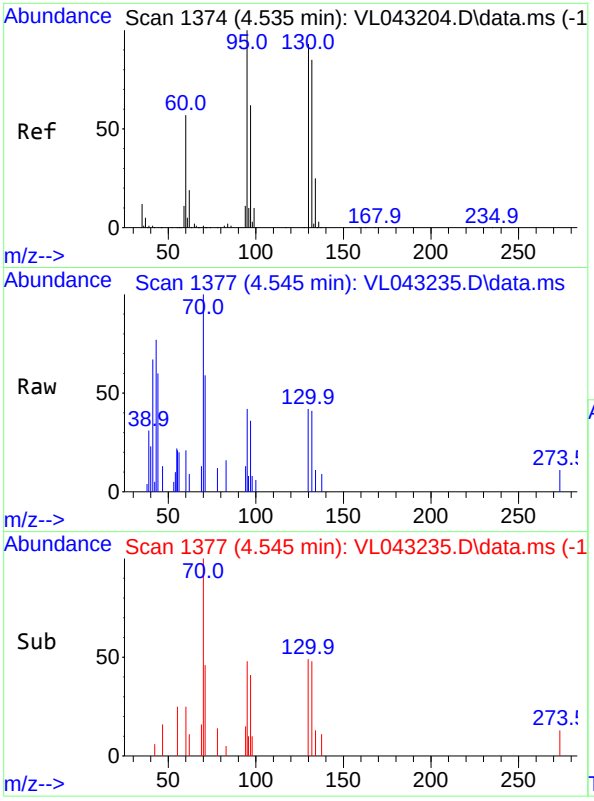


#36
Benzene
Concen: 0.202 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.013 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 78 Resp: 5671

Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.5	26.3
50	13.8	15.5	23.3#

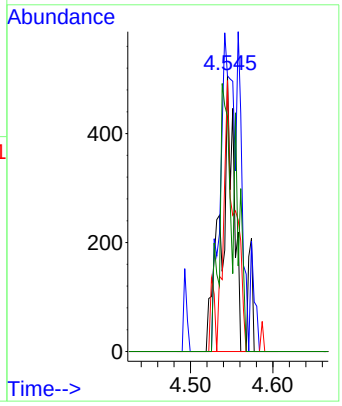




#38
Trichloroethene
Concen: 0.057 ppbv m
RT: 4.545 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:130 Resp: 62

Ion	Ratio	Lower	Upper
130	100		
95	99.8	85.7	128.5
132	98.0	73.4	110.0
97	85.2	52.7	79.1#



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

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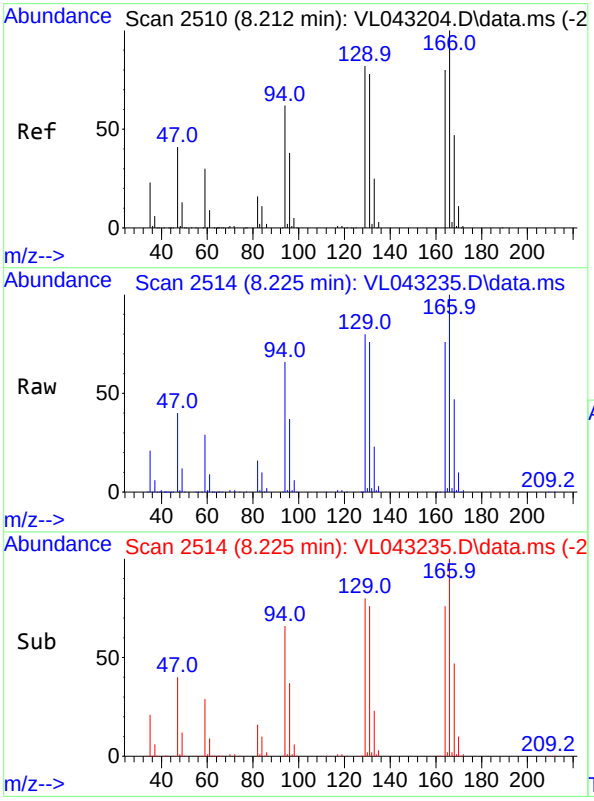
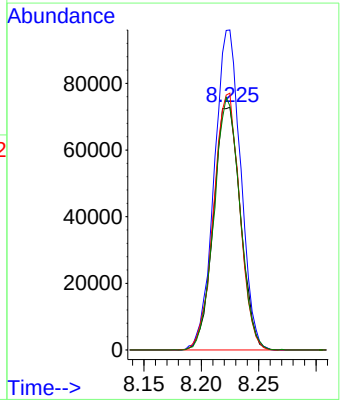
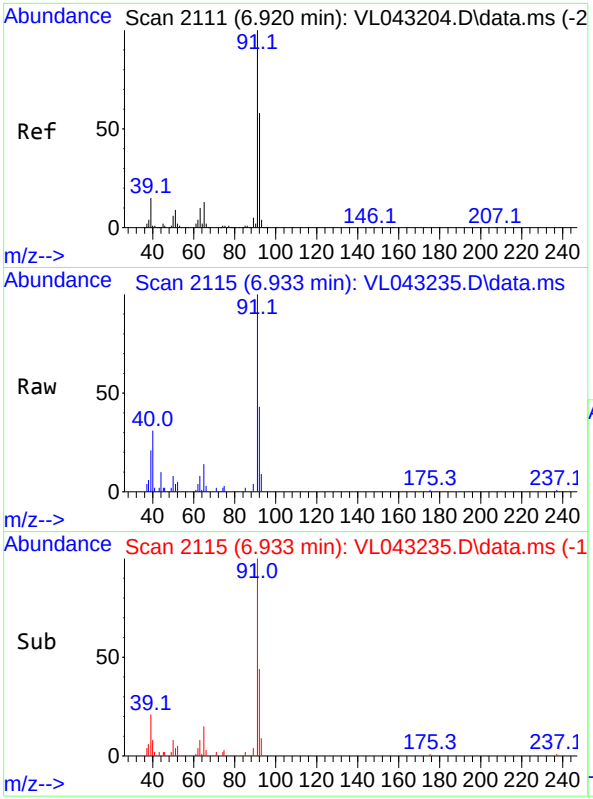


#52
Tetrachloroethene
Concen: 11.475 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.013 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:164 Resp: 119688

Ion	Ratio	Lower	Upper
164	100		
166	131.8	99.4	149.2
129	105.8	81.8	122.8
131	100.5	77.4	116.2

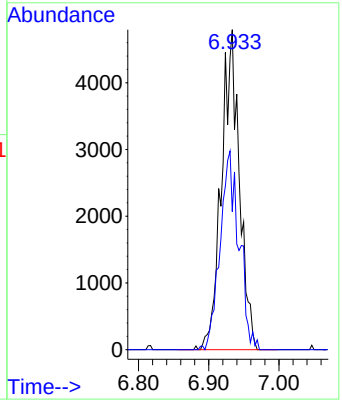




#53
Toluene
Concen: 0.256 ppbv m
RT: 6.933 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 91 Resp: 850

Ion	Ratio	Lower	Upper
91	100		
92	65.3	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
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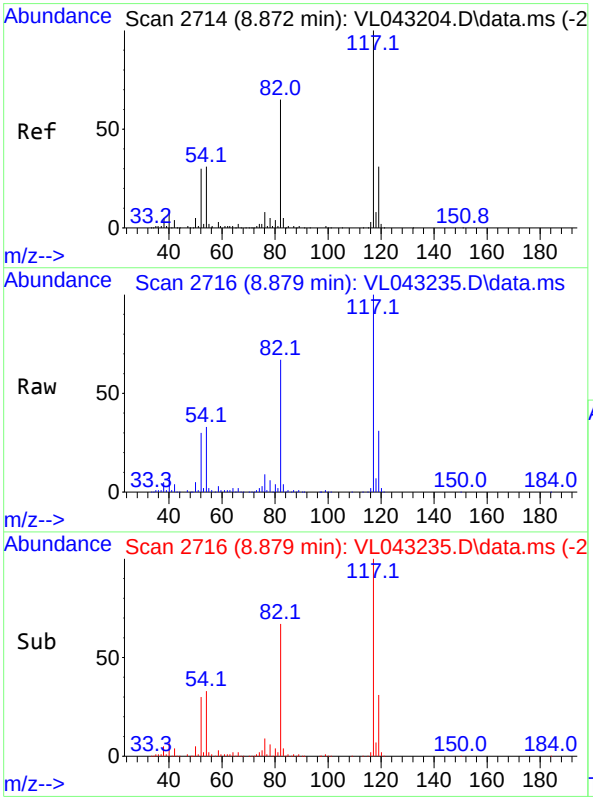
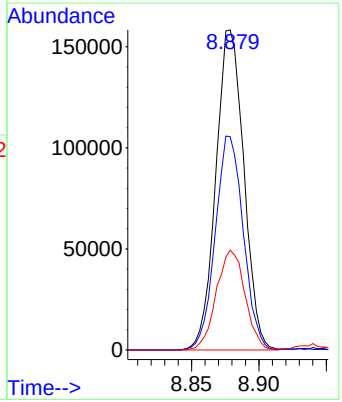
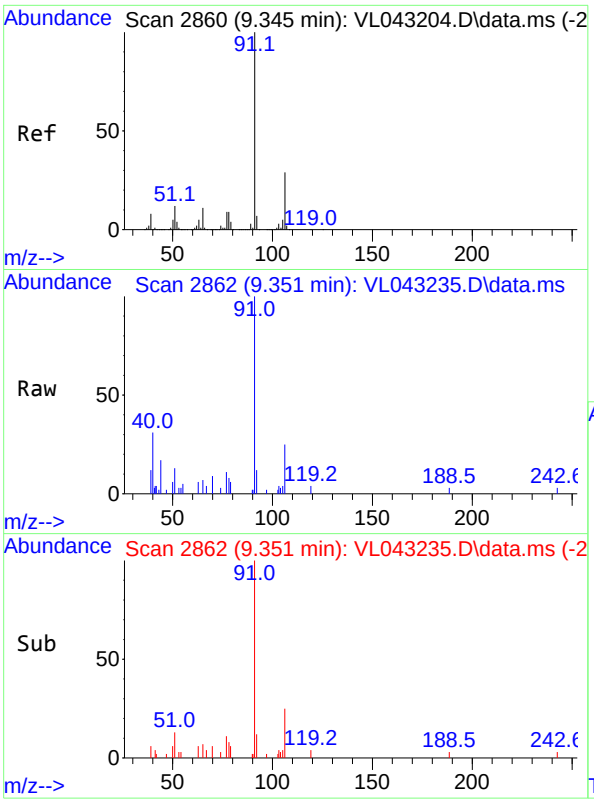


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:117 Resp: 229139

Ion	Ratio	Lower	Upper
117	100		
82	66.8	56.1	84.1
119	32.0	25.0	37.6

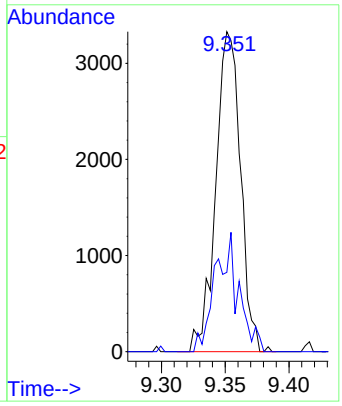




#58
Ethyl Benzene
Concen: 0.102 ppbv m
RT: 9.351 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 91 Resp: 448

Ion	Ratio	Lower	Upper
91	100		
106	24.8	22.8	34.2



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

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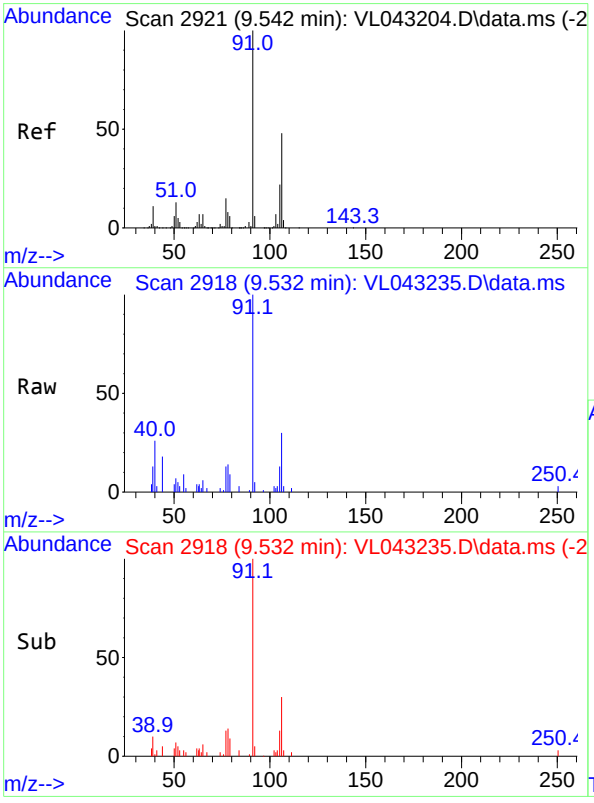
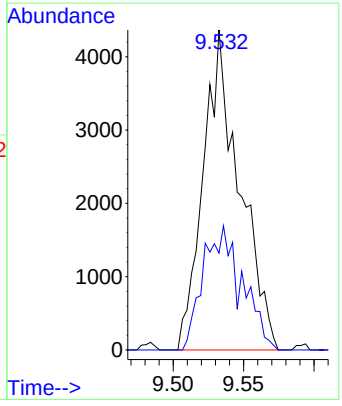
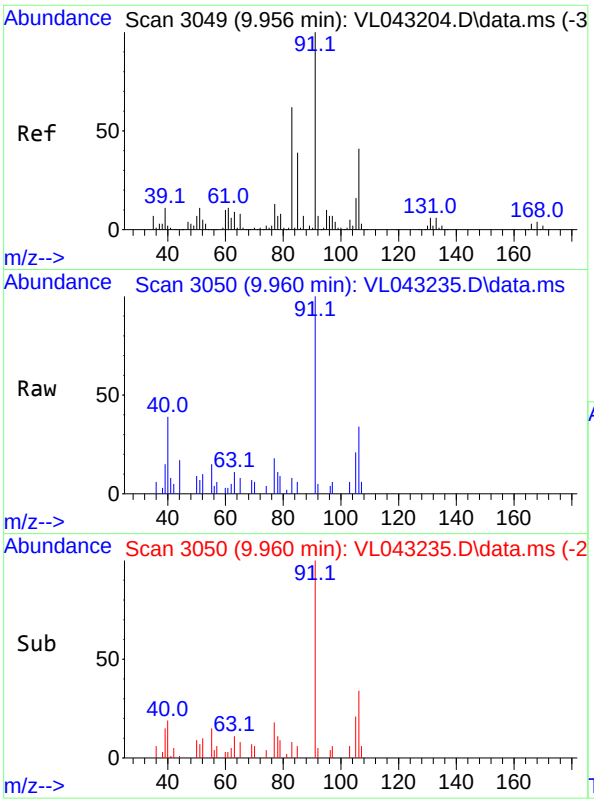


#59
m/p-Xylene
Concen: 0.221 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.010 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 91 Resp: 7823

Ion	Ratio	Lower	Upper
91	100		
106	41.4	36.1	54.1

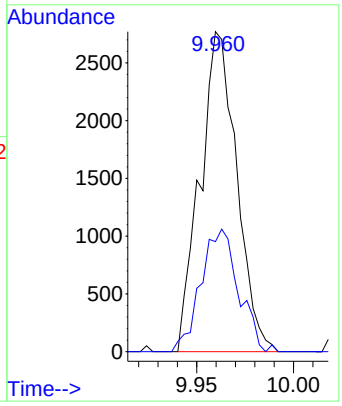




#60
o-Xylene
Concen: 0.103 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 91 Resp: 363

Ion	Ratio	Lower	Upper
91	100		
106	39.5	20.9	62.8



Instrument :
MSVOA_L
ClientSampleId :
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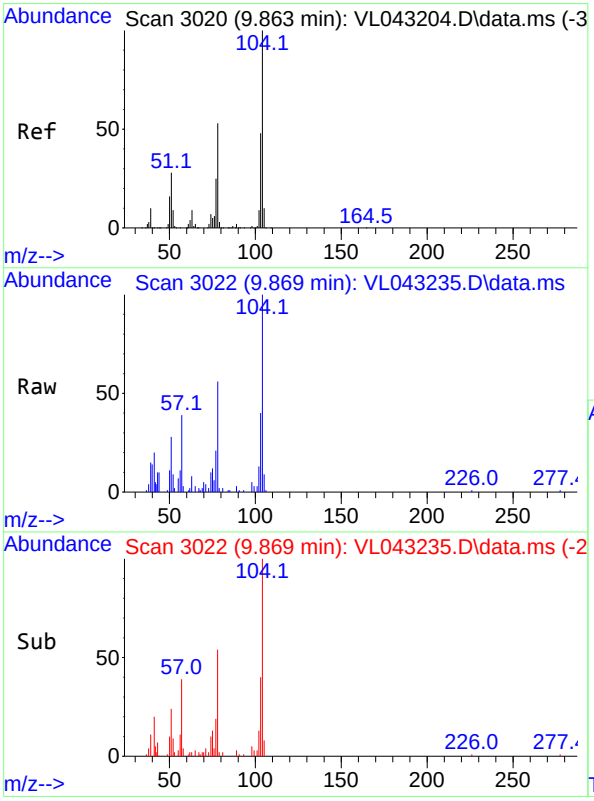
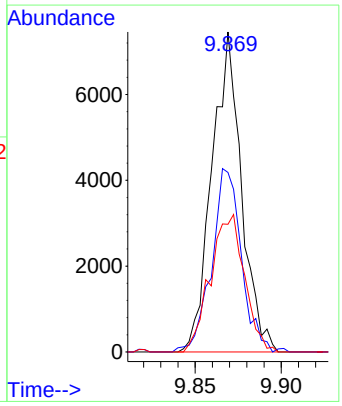
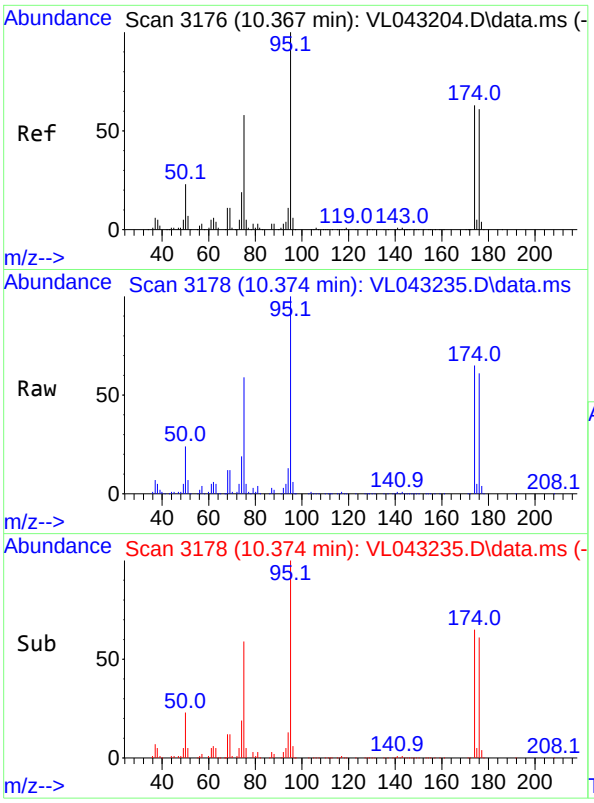


#61
Styrene
Concen: 0.576 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:104 Resp: 8898

Ion	Ratio	Lower	Upper
104	100		
78	57.8	42.1	63.1
103	49.8	37.2	55.8

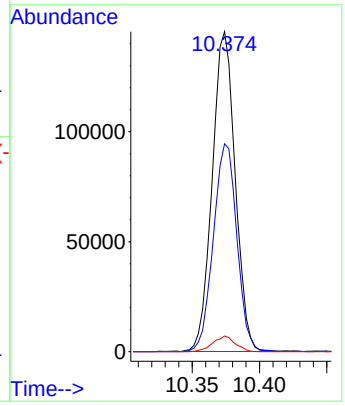




#68
1-Bromo-4-Fluorobenzene
Concen: 10.267 ppbv
RT: 10.374 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 95 Resp: 17243

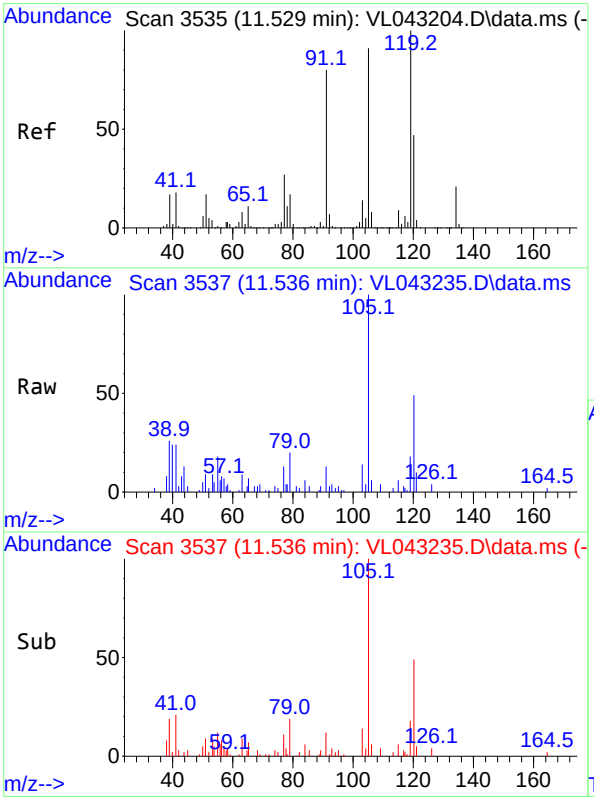
Ion	Ratio	Lower	Upper
95	100		
174	66.7	50.2	75.2
175	4.7	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Manual Integrations
APPROVED

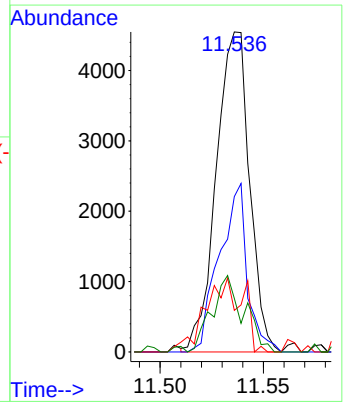
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

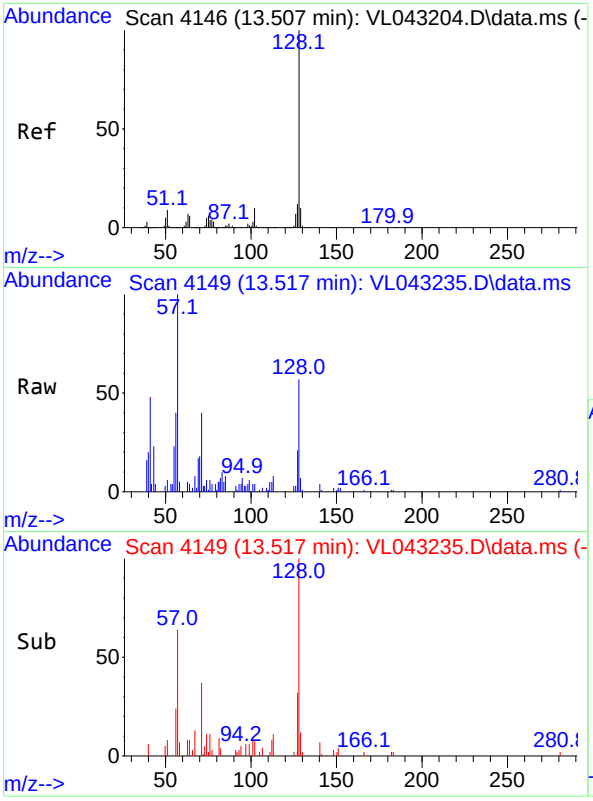


#74
1,2,4-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:105 Resp: 5098

Ion	Ratio	Lower	Upper
105	100		
120	48.6	41.7	62.5
91	13.0	70.0	105.0#
77	16.8	23.8	35.8#

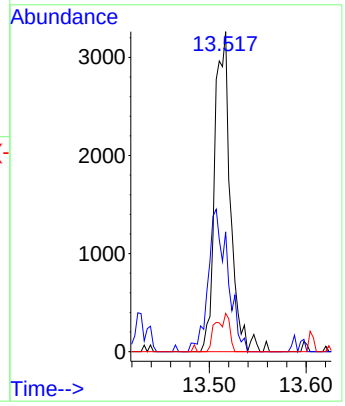




#79
Naphthalene
Concen: 0.105 ppbv m
RT: 13.517 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:128 Resp: 366

Ion	Ratio	Lower	Upper
128	100		
127	37.5	9.9	14.9#
129	12.0	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	9A-SG-1DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-01DL	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	0.55	2.72	UD	5	2.72	12.4	11/19/25 20:25	VL111925
74-87-3	Chloromethane	0.75	1.55	JD	5	1.01	5.16	11/19/25 20:25	VL111925
75-01-4	Vinyl Chloride	0.13	0.33	UD	5	0.33	0.38	11/19/25 20:25	VL111925
74-83-9	Bromomethane	0.39	1.51	UD	5	1.51	9.71	11/19/25 20:25	VL111925
75-00-3	Chloroethane	0.75	1.98	UD	5	1.98	6.60	11/19/25 20:25	VL111925
109-99-9	Tetrahydrofuran	0.40	1.18	UD	5	1.18	7.37	11/19/25 20:25	VL111925
75-69-4	Trichlorofluoromethane	0.85	4.78	UD	5	4.78	14.1	11/19/25 20:25	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.70	5.37	UD	5	5.37	19.2	11/19/25 20:25	VL111925
76-14-2	Dichlorotetrafluoroethane	0.75	5.24	UD	5	5.24	17.5	11/19/25 20:25	VL111925
75-65-0	tert-Butyl alcohol	0.80	2.43	UD	5	2.43	7.58	11/19/25 20:25	VL111925
142-82-5	Heptane	2.10	8.61	JD	5	3.48	10.3	11/19/25 20:25	VL111925
75-35-4	1,1-Dichloroethene	0.75	2.97	UD	5	2.97	9.91	11/19/25 20:25	VL111925
67-64-1	Acetone	33.2	78.9	D	5	2.14	5.94	11/19/25 20:25	VL111925
75-15-0	Carbon Disulfide	0.40	1.25	UD	5	1.25	7.79	11/19/25 20:25	VL111925
1634-04-4	Methyl tert-Butyl Ether	1.20	4.33	UD	5	4.33	9.01	11/19/25 20:25	VL111925
75-09-2	Methylene Chloride	1.20	4.17	UD	5	4.17	8.69	11/19/25 20:25	VL111925
156-60-5	trans-1,2-Dichloroethene	0.60	2.38	UD	5	2.38	9.91	11/19/25 20:25	VL111925
75-34-3	1,1-Dichloroethane	0.65	2.63	UD	5	2.63	10.1	11/19/25 20:25	VL111925
110-82-7	Cyclohexane	1.10	3.79	UD	5	3.79	8.61	11/19/25 20:25	VL111925
78-93-3	2-Butanone	2.10	6.19	JD	5	0.83	7.37	11/19/25 20:25	VL111925
56-23-5	Carbon Tetrachloride	0.13	0.82	UD	5	0.82	0.94	11/19/25 20:25	VL111925
156-59-2	cis-1,2-Dichloroethene	0.50	1.98	UD	5	1.98	9.91	11/19/25 20:25	VL111925
67-66-3	Chloroform	0.48	2.34	UD	5	2.34	12.2	11/19/25 20:25	VL111925
71-55-6	1,1,1-Trichloroethane	0.080	0.44	UD	5	0.44	0.82	11/19/25 20:25	VL111925
540-84-1	2,2,4-Trimethylpentane	0.70	3.27	UD	5	3.27	11.7	11/19/25 20:25	VL111925
71-43-2	Benzene	0.40	1.28	UD	5	1.28	7.99	11/19/25 20:25	VL111925
107-06-2	1,2-Dichloroethane	0.47	1.90	UD	5	1.90	10.1	11/19/25 20:25	VL111925
79-01-6	Trichloroethene	0.12	0.64	UD	5	0.64	0.81	11/19/25 20:25	VL111925
78-87-5	1,2-Dichloropropane	0.65	3.00	UD	5	3.00	11.6	11/19/25 20:25	VL111925
75-27-4	Bromodichloromethane	0.32	2.14	UD	5	2.14	16.8	11/19/25 20:25	VL111925
108-10-1	4-Methyl-2-Pentanone	0.49	2.01	UD	5	2.01	10.3	11/19/25 20:25	VL111925
108-88-3	Toluene	0.80	3.01	UD	5	3.01	9.42	11/19/25 20:25	VL111925
10061-02-6	t-1,3-Dichloropropene	0.75	3.40	UD	5	3.40	11.3	11/19/25 20:25	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.55	2.50	UD	5	2.50	11.3	11/19/25 20:25	VL111925
79-00-5	1,1,2-Trichloroethane	0.41	2.24	UD	5	2.24	13.6	11/19/25 20:25	VL111925
124-48-1	Dibromochloromethane	0.43	3.66	UD	5	3.66	21.3	11/19/25 20:25	VL111925
106-93-4	1,2-Dibromoethane	0.43	3.30	UD	5	3.30	3.84	11/19/25 20:25	VL111925
127-18-4	Tetrachloroethene	22.3	151	D	5	0.54	1.02	11/19/25 20:25	VL111925
108-90-7	Chlorobenzene	0.39	1.80	UD	5	1.80	11.5	11/19/25 20:25	VL111925
100-41-4	Ethyl Benzene	0.95	4.13	UD	5	4.13	10.9	11/19/25 20:25	VL111925
179601-23-1	m/p-Xylene	2.10	9.12	UD	5	9.12	21.7	11/19/25 20:25	VL111925
95-47-6	o-Xylene	1.10	4.78	UD	5	4.78	10.9	11/19/25 20:25	VL111925
100-42-5	Styrene	0.96	4.09	JD	5	3.41	10.6	11/19/25 20:25	VL111925
75-25-2	Bromoform	0.24	2.48	UD	5	2.48	25.9	11/19/25 20:25	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.090	0.62	UD	5	0.62	1.03	11/19/25 20:25	VL111925
95-49-8	2-Chlorotoluene	0.85	4.40	UD	5	4.40	12.9	11/19/25 20:25	VL111925

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

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	9A-SG-1DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-01DL	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	0.90	4.42	UD	5	4.42	12.3	11/19/25 20:25	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.90	4.42	UD	5	4.42	12.3	11/19/25 20:25	VL111925
541-73-1	1,3-Dichlorobenzene	0.27	1.62	UD	5	1.62	15.0	11/19/25 20:25	VL111925
106-46-7	1,4-Dichlorobenzene	0.65	3.91	UD	5	3.91	15.0	11/19/25 20:25	VL111925
95-50-1	1,2-Dichlorobenzene	0.65	3.91	UD	5	3.91	15.0	11/19/25 20:25	VL111925
120-82-1	1,2,4-Trichlorobenzene	1.10	8.17	UD	5	8.17	18.6	11/19/25 20:25	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.65	6.93	UD	5	6.93	26.7	11/19/25 20:25	VL111925
106-99-0	1,3-Butadiene	0.26	0.58	UD	5	0.58	5.53	11/19/25 20:25	VL111925
91-20-3	Naphthalene	0.070	0.37	UD	5	0.37	2.62	11/19/25 20:25	VL111925
622-96-8	4-Ethyltoluene	1.10	5.41	UD	5	5.41	12.3	11/19/25 20:25	VL111925
110-54-3	Hexane	4.20	14.8	D	5	2.82	8.81	11/19/25 20:25	VL111925
107-05-1	Allyl Chloride	0.55	1.72	UD	5	1.72	7.83	11/19/25 20:25	VL111925
123-91-1	1,4-Dioxane	1.10	3.96	UD	5	3.96	9.01	11/19/25 20:25	VL111925
80-62-6	Methyl Methacrylate	0.70	2.87	UD	5	2.87	10.2	11/19/25 20:25	VL111925
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	102000							
540-36-3	1,4-Difluorobenzene	274000							
3114-55-4	Chlorobenzene-d5	212000							

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\VL111925\
Data File : VL043248.D
Acq On : 19 Nov 2025 20:25
Operator : SY/MD
Sample : Q3626-01DL 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:10:16 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 :
9A-SG-1DL

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	101838	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	273802	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	211877	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	156816	10.097	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	1470	0.102	ppbv		99
4) Chloromethane	1.531	50	801	0.149	ppbv	#	64
9) Propene	1.486	41	4449	0.742	ppbv	#	1
10) Heptane	4.978	43	7567m	0.424	ppbv		
13) Ethanol	1.719	45	18211	8.634	ppbv		98
15) Acetone	1.832	43	93799	6.630	ppbv		98
19) Isopropyl Alcohol	1.884	45	10986	1.374	ppbv	#	1
20) Methylene Chloride	2.059	84	3988	0.186	ppbv	#	79
26) Hexane	2.823	57	11251	0.841	ppbv	#	41
34) 2-Butanone	2.554	43	8284	0.429	ppbv		99
52) Tetrachloroethene	8.218	164	43592	4.469	ppbv		97
53) Toluene	6.917	91	3140	0.101	ppbv		94
61) Styrene	9.859	104	2733m	0.191	ppbv		

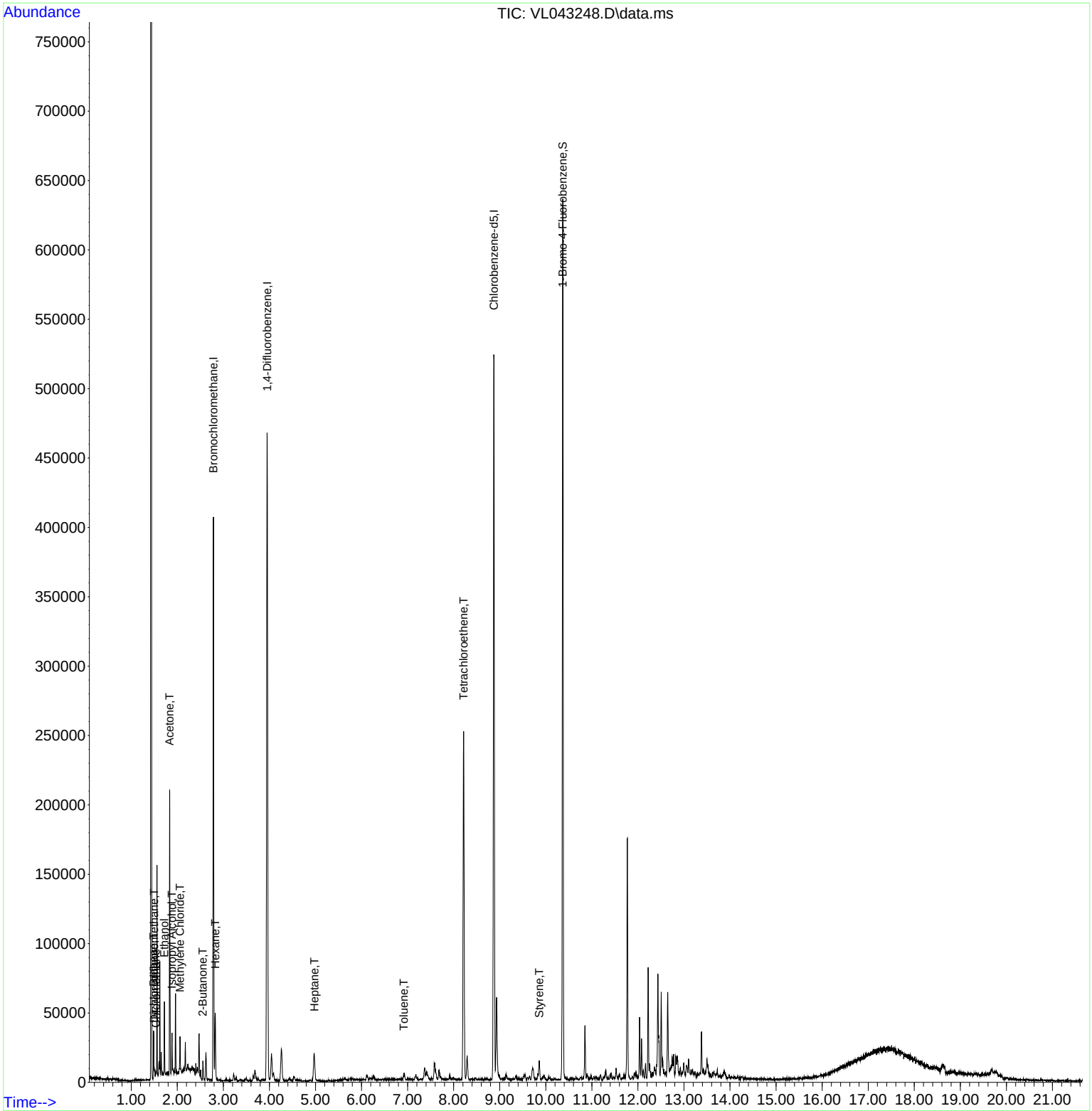
(#) = qualifier out of range (m) = manual integration (+) = signals summed

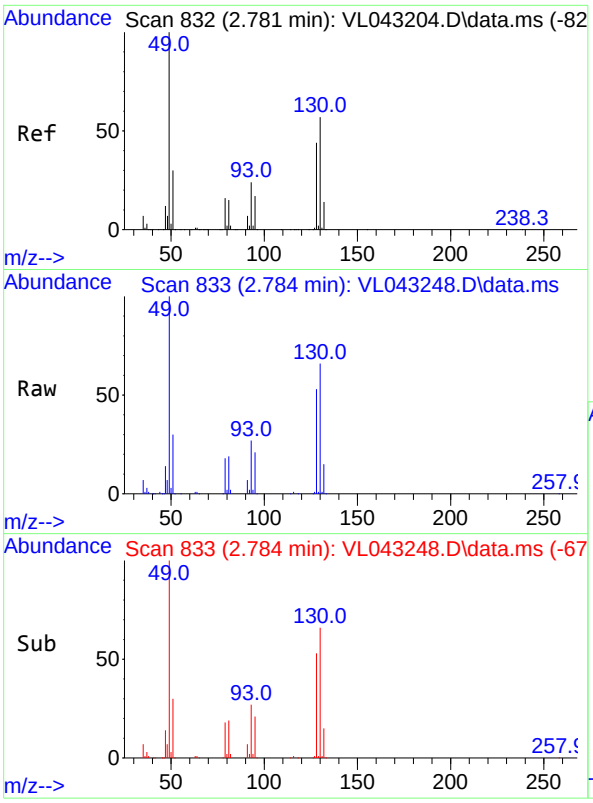
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043248.D
Acq On : 19 Nov 2025 20:25
Operator : SY/MD
Sample : Q3626-01DL 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:10:16 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 :
9A-SG-1DL

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

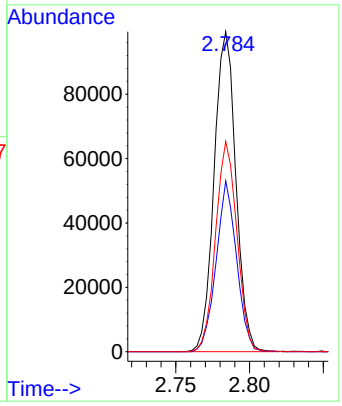




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 49 Resp: 10183

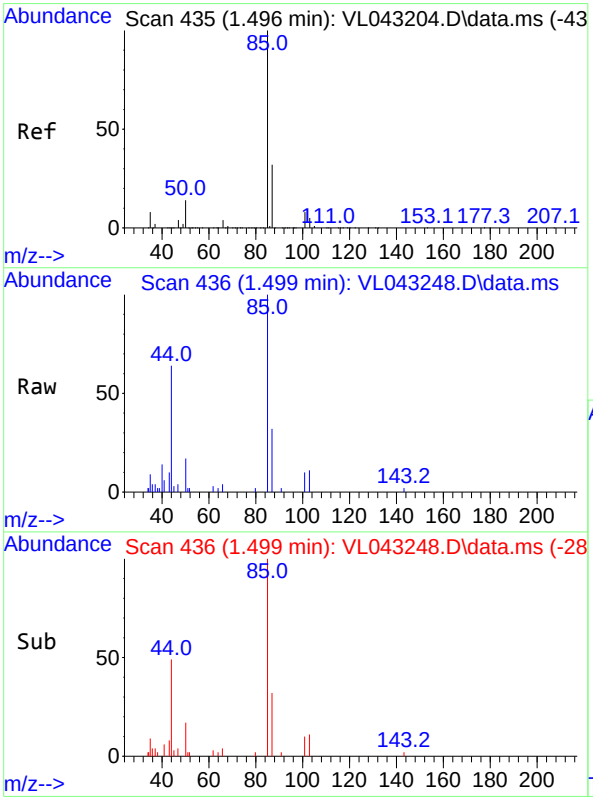
Ion	Ratio	Lower	Upper
49	100		
128	50.2	23.0	69.0
130	64.6	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Manual Integrations
APPROVED

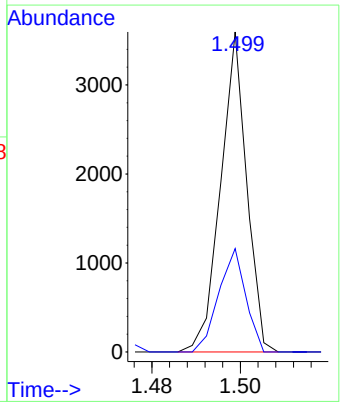
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

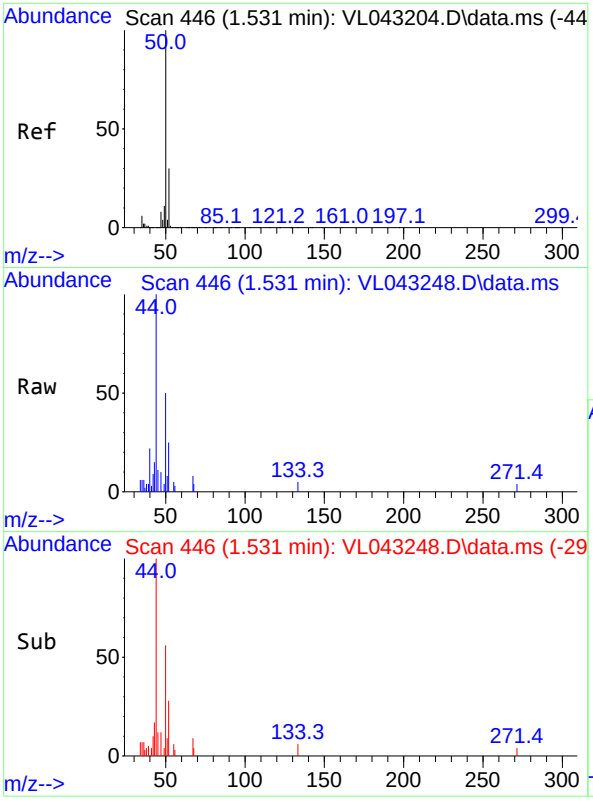


#2
Dichlorodifluoromethane
Concen: 0.102 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 85 Resp: 1470

Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.4	38.2





#4
Chloromethane
Concen: 0.149 ppbv
RT: 1.531 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

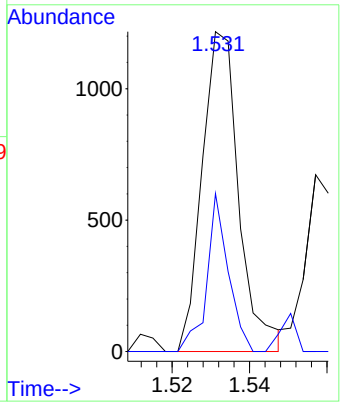
Tgt Ion: 50 Resp: 80

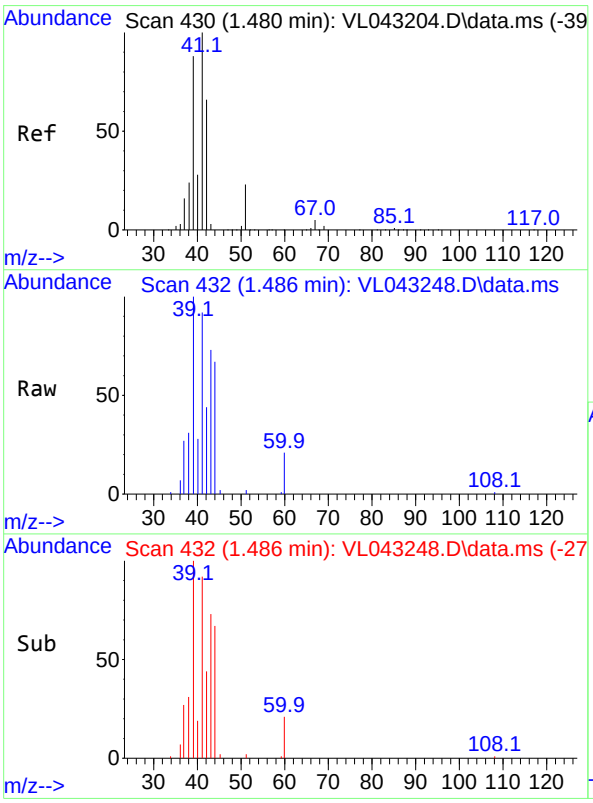
Ion	Ratio	Lower	Upper
50	100		
52	49.4	24.1	36.1#

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

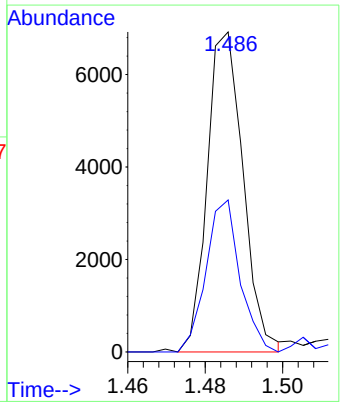


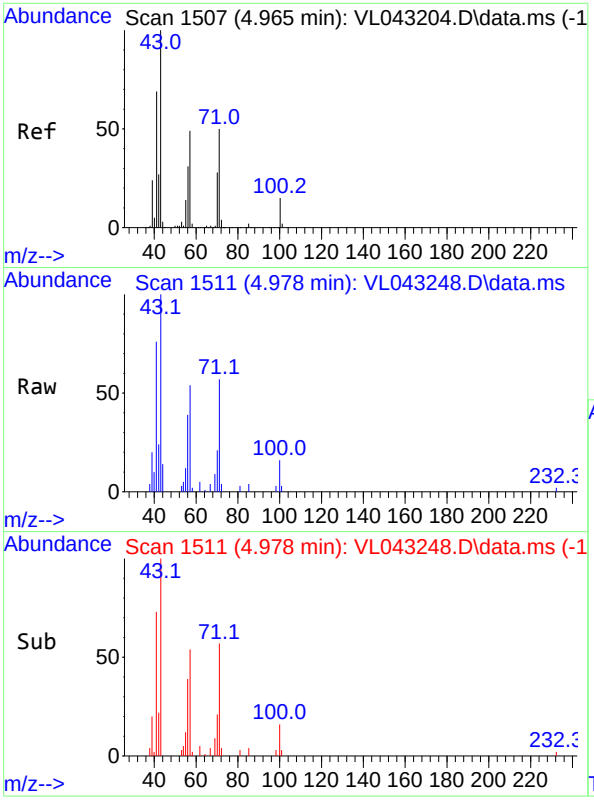


#9
Propene
Concen: 0.742 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 41 Resp: 4449

Ion	Ratio	Lower	Upper
41	100		
42	48.2	3.7	5.5#

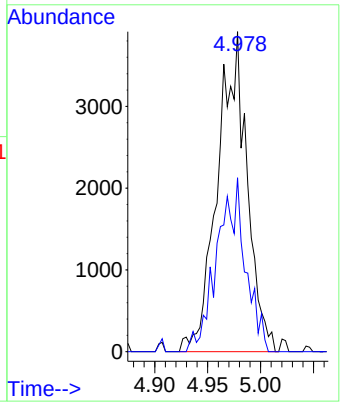




#10
Heptane
Concen: 0.424 ppbv m
RT: 4.978 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 43 Resp: 756

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Manual Integrations
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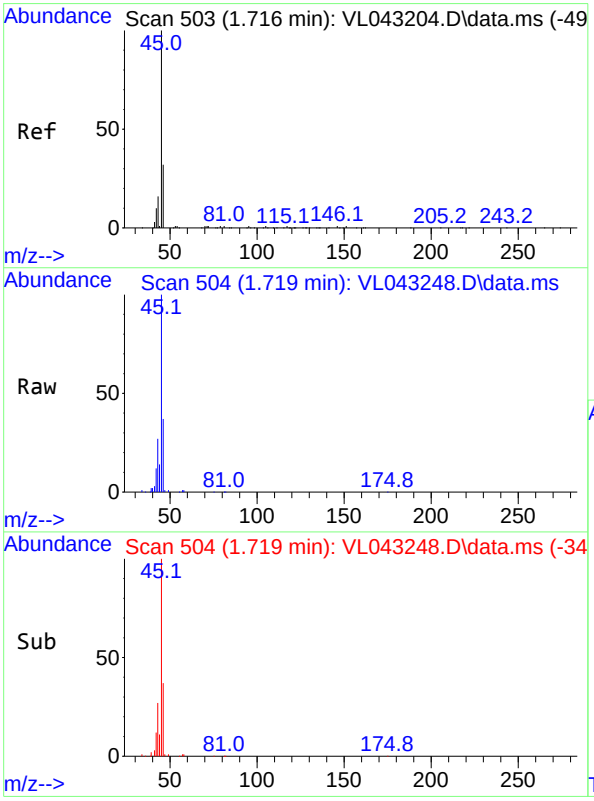
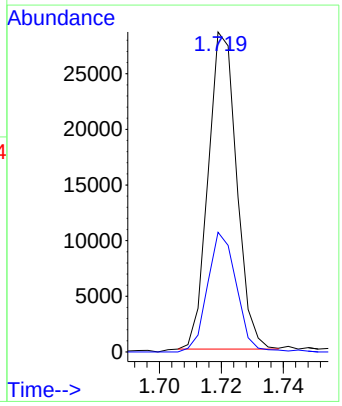
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

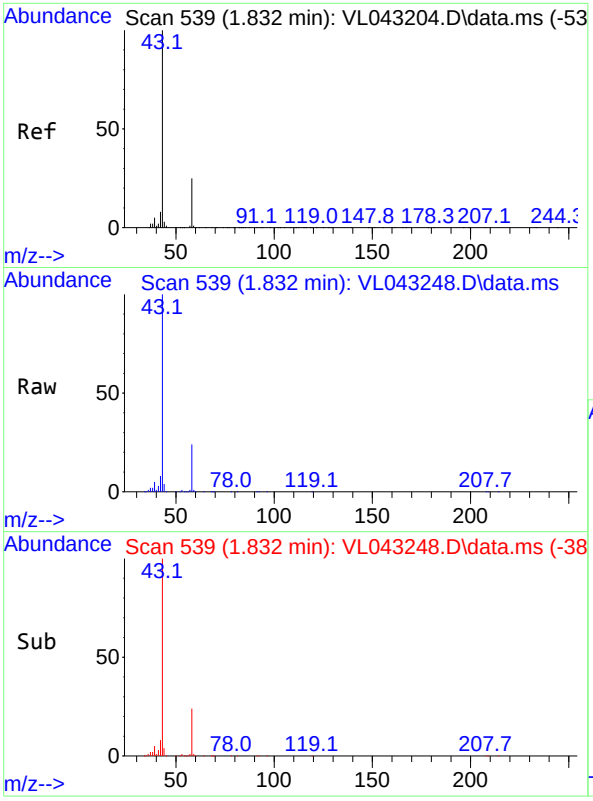


#13
Ethanol
Concen: 8.634 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 45 Resp: 18211

Ion	Ratio	Lower	Upper
45	100		
46	38.5	15.0	59.8

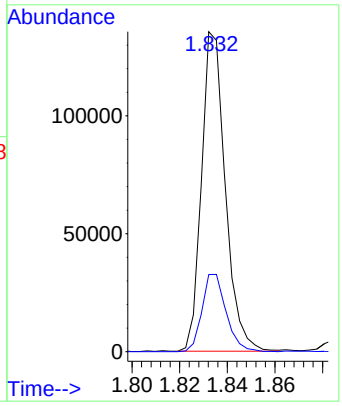




#15
Acetone
Concen: 6.630 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 43 Resp: 9379

Ion	Ratio	Lower	Upper
43	100		
58	25.0	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Manual Integrations
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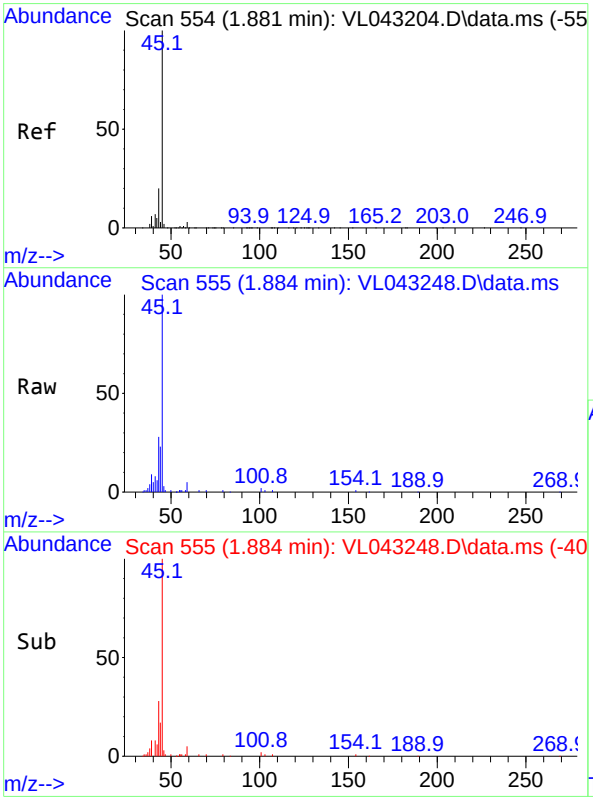
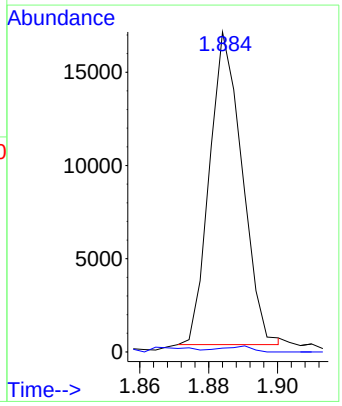
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

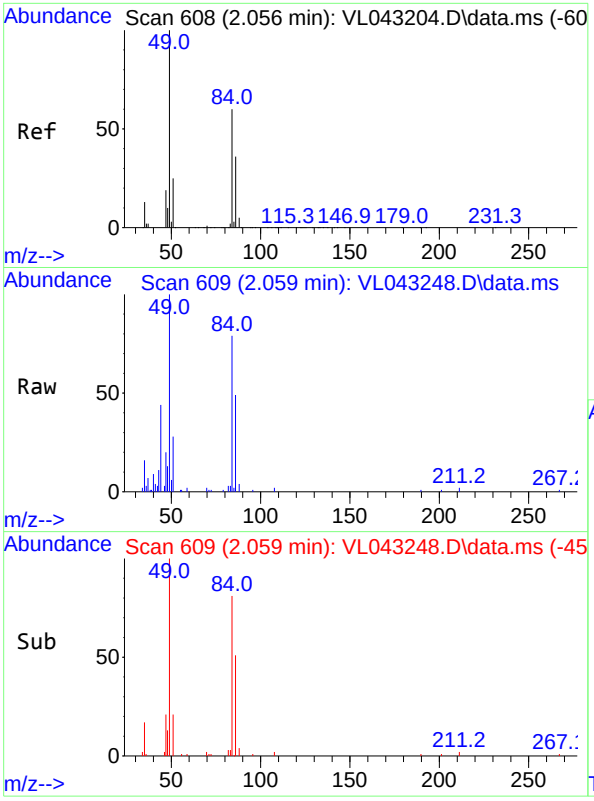


#19
Isopropyl Alcohol
Concen: 1.374 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 45 Resp: 10986

Ion	Ratio	Lower	Upper
45	100		
58	213.6	31.3	46.9#

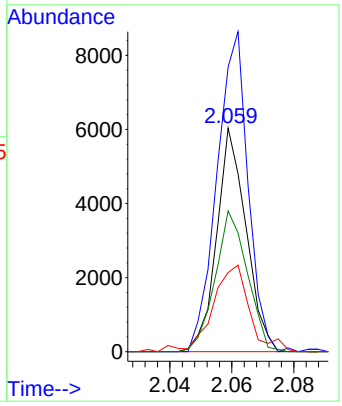




#20
Methylene Chloride
Concen: 0.186 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 84 Resp: 398

Ion	Ratio	Lower	Upper
84	100		
49	127.2	132.9	199.3#
51	33.9	34.8	52.2#
86	62.9	48.2	72.2



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Manual Integrations
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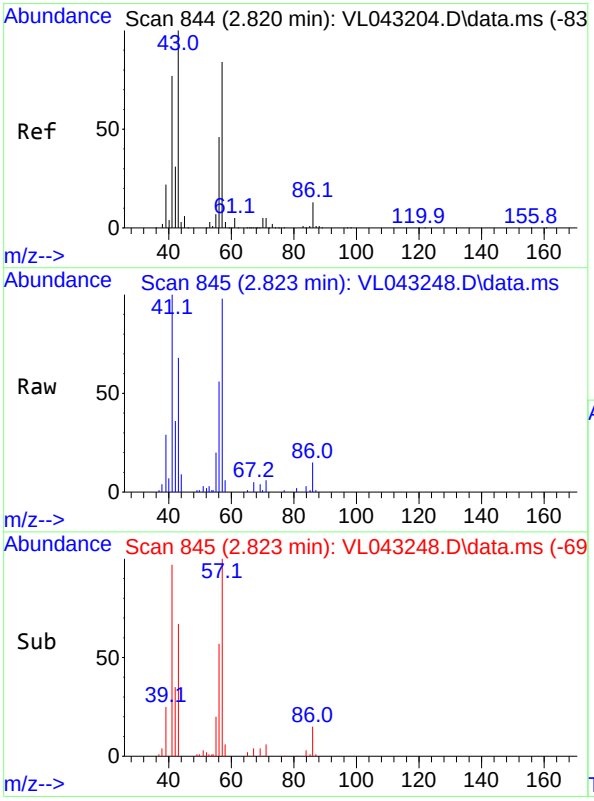
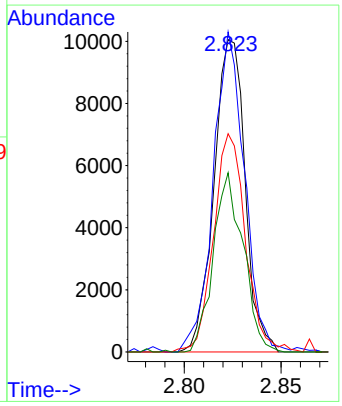
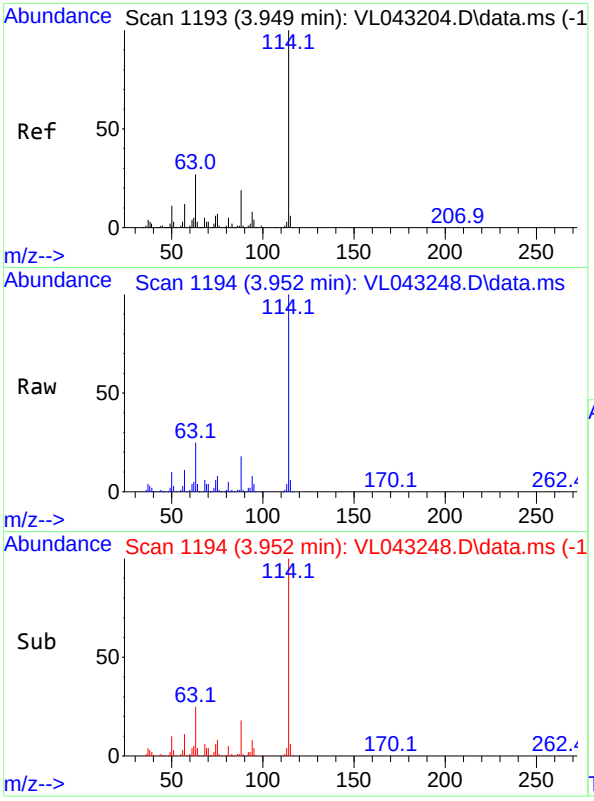


#26
Hexane
Concen: 0.841 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 57 Resp: 11251

Ion	Ratio	Lower	Upper
57	100		
41	103.8	74.6	111.8
43	72.7	179.0	268.4#
56	55.2	42.3	63.5

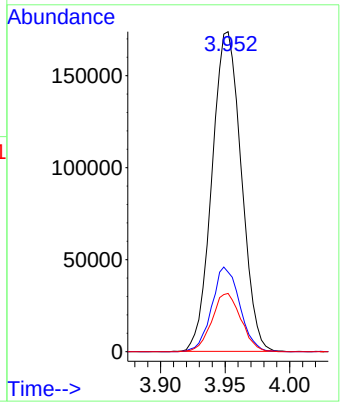




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion:114 Resp: 27380

Ion	Ratio	Lower	Upper
114	100		
63	25.3	21.0	31.6
88	18.1	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Manual Integrations
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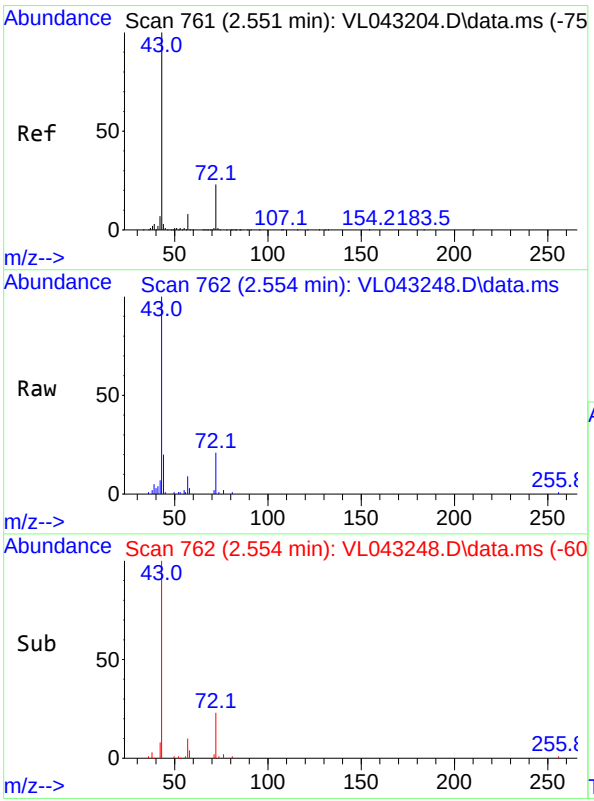
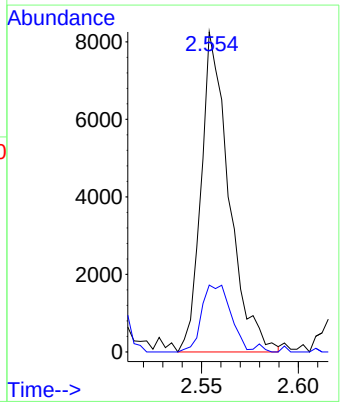
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

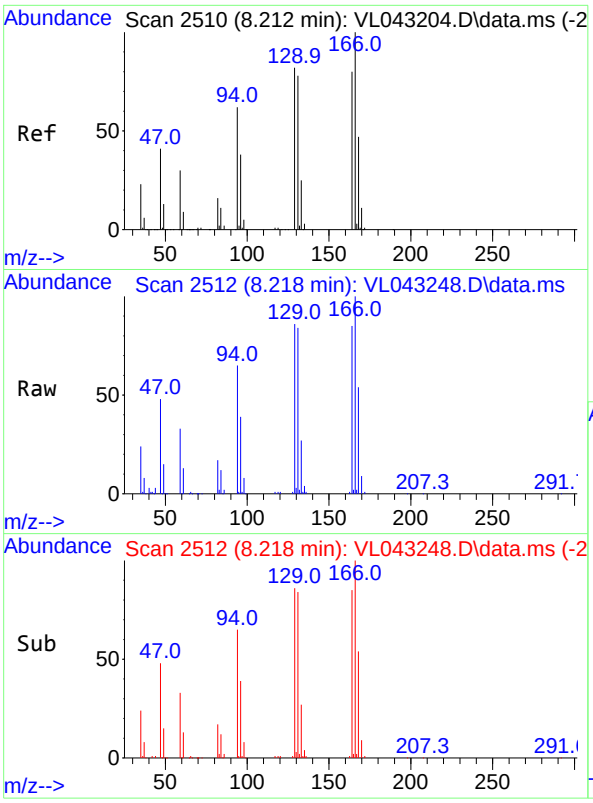


#34
2-Butanone
Concen: 0.429 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 43 Resp: 8284

Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.1	27.1

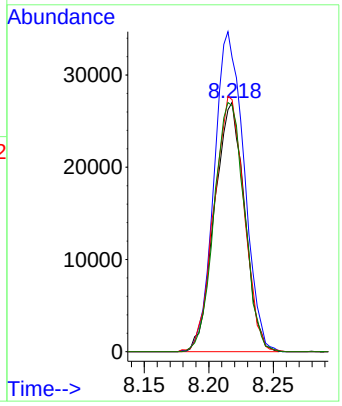




#52
Tetrachloroethene
Concen: 4.469 ppbv
RT: 8.218 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion:164 Resp: 4359

Ion	Ratio	Lower	Upper
164	100		
166	117.9	99.4	149.2
129	101.1	81.8	122.8
131	98.7	77.4	116.2



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Manual Integrations
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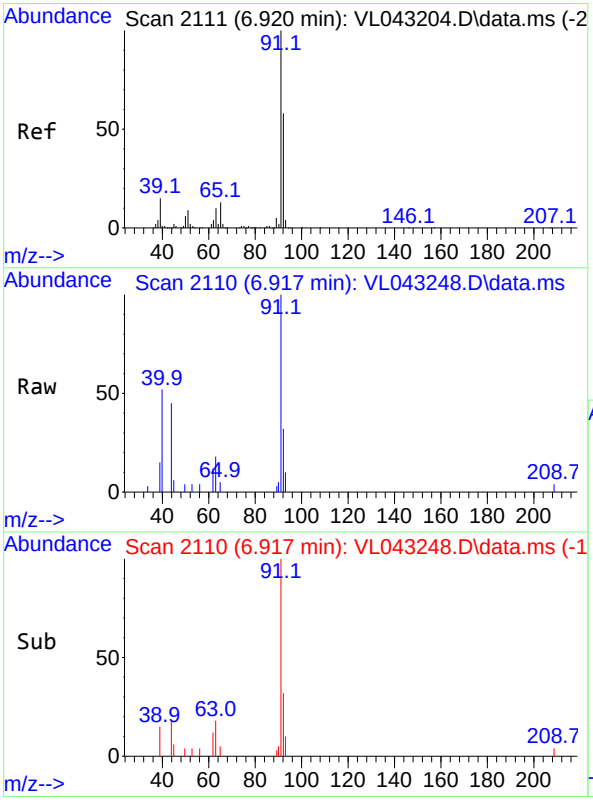
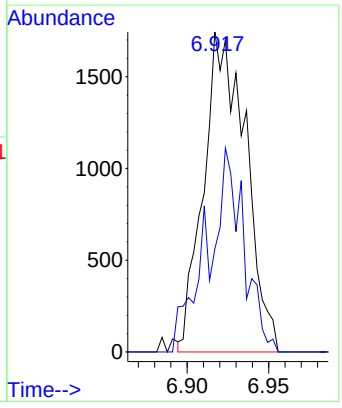
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

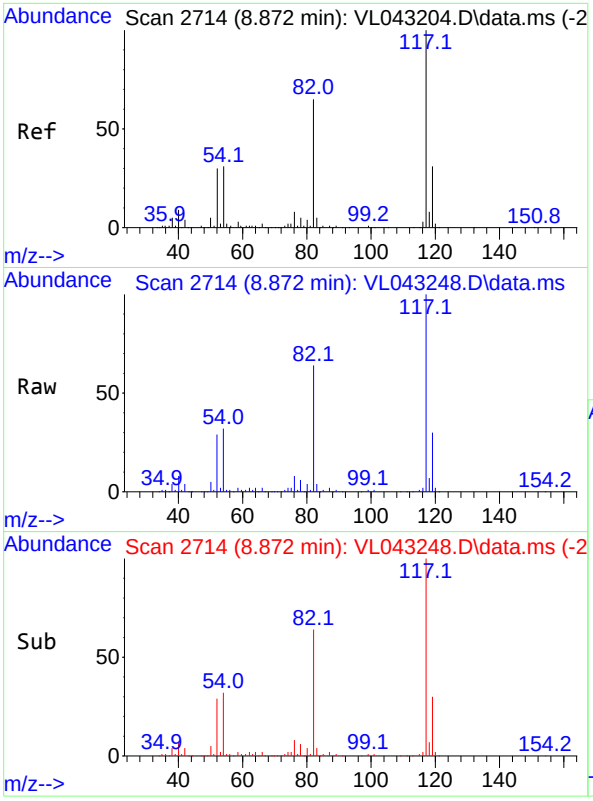


#53
Toluene
Concen: 0.101 ppbv
RT: 6.917 min Scan# 2110
Delta R.T. -0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 91 Resp: 3140

Ion	Ratio	Lower	Upper
91	100		
92	54.8	47.4	71.0

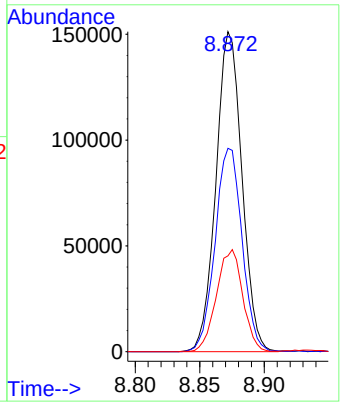




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion:117 Resp: 21187

Ion	Ratio	Lower	Upper
117	100		
82	66.1	56.1	84.1
119	32.3	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Manual Integrations
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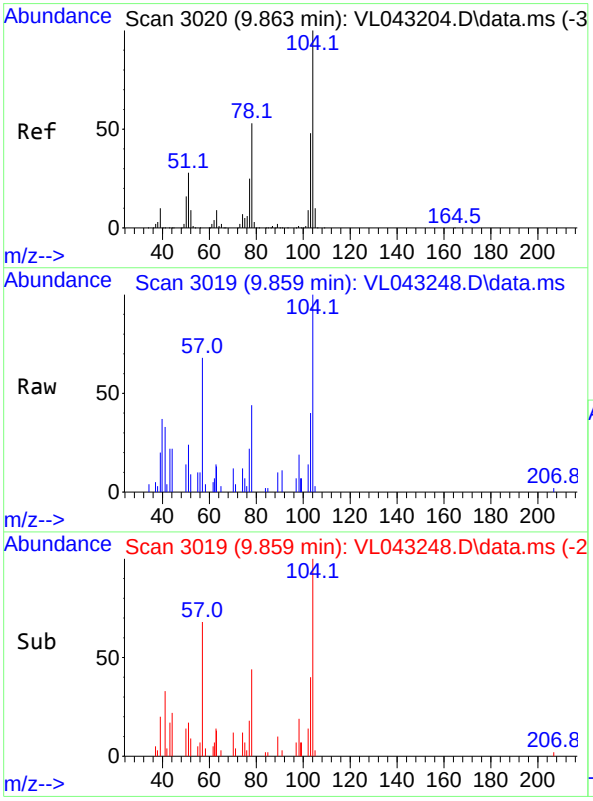
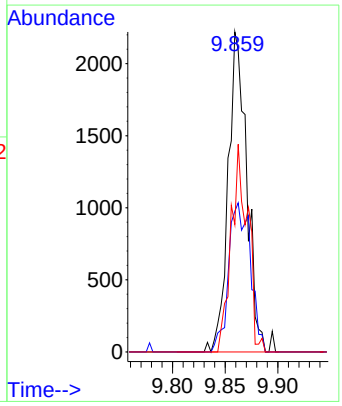
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

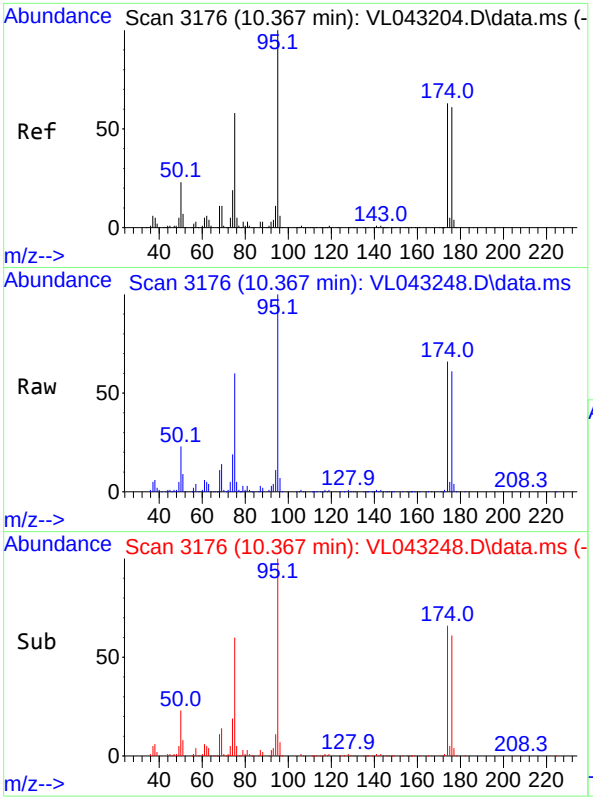


#61
Styrene
Concen: 0.191 ppbv m
RT: 9.859 min Scan# 3019
Delta R.T. -0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion:104 Resp: 2733

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

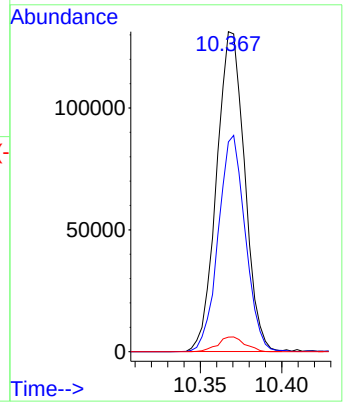




#68
1-Bromo-4-Fluorobenzene
Concen: 10.097 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 95 Resp: 15681

Ion	Ratio	Lower	Upper
95	100		
174	65.4	50.2	75.2
175	4.4	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	9A-SG-2	SDG No.:	Q3626
Lab Sample ID:	Q3626-02	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	0.52	2.57	J	2	1.09	4.94	11/19/25 13:17	VL111925
74-87-3	Chloromethane	0.20	0.41	U	2	0.41	2.07	11/19/25 13:17	VL111925
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/19/25 13:17	VL111925
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/19/25 13:17	VL111925
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/19/25 13:17	VL111925
109-99-9	Tetrahydrofuran	0.16	0.47	U	2	0.47	2.95	11/19/25 13:17	VL111925
75-69-4	Trichlorofluoromethane	0.71	3.99	J	2	1.91	5.62	11/19/25 13:17	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/19/25 13:17	VL111925
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/19/25 13:17	VL111925
75-65-0	tert-Butyl alcohol	0.96	2.91	J	2	0.97	3.03	11/19/25 13:17	VL111925
142-82-5	Heptane	0.34	1.39	U	2	1.39	4.10	11/19/25 13:17	VL111925
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/19/25 13:17	VL111925
67-64-1	Acetone	16.0	38.0		2	0.86	2.38	11/19/25 13:17	VL111925
75-15-0	Carbon Disulfide	0.76	2.37	J	2	0.50	3.11	11/19/25 13:17	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/19/25 13:17	VL111925
75-09-2	Methylene Chloride	2.70	9.38		2	1.60	3.47	11/19/25 13:17	VL111925
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/19/25 13:17	VL111925
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/19/25 13:17	VL111925
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/19/25 13:17	VL111925
78-93-3	2-Butanone	0.55	1.62	J	2	0.32	2.95	11/19/25 13:17	VL111925
56-23-5	Carbon Tetrachloride	0.070	0.44		2	0.31	0.38	11/19/25 13:17	VL111925
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/19/25 13:17	VL111925
67-66-3	Chloroform	4.00	19.5		2	0.93	4.88	11/19/25 13:17	VL111925
71-55-6	1,1,1-Trichloroethane	0.090	0.49		2	0.16	0.33	11/19/25 13:17	VL111925
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/19/25 13:17	VL111925
71-43-2	Benzene	0.29	0.93	J	2	0.51	3.19	11/19/25 13:17	VL111925
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/19/25 13:17	VL111925
79-01-6	Trichloroethene	0.26	1.40		2	0.27	0.32	11/19/25 13:17	VL111925
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/19/25 13:17	VL111925
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/19/25 13:17	VL111925
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	U	2	0.78	4.10	11/19/25 13:17	VL111925
108-88-3	Toluene	0.32	1.21	U	2	1.21	3.77	11/19/25 13:17	VL111925
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/19/25 13:17	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/19/25 13:17	VL111925
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/19/25 13:17	VL111925
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/19/25 13:17	VL111925
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/19/25 13:17	VL111925
127-18-4	Tetrachloroethene	1.50	10.2		2	0.20	0.41	11/19/25 13:17	VL111925
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/19/25 13:17	VL111925
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/19/25 13:17	VL111925
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/19/25 13:17	VL111925
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/19/25 13:17	VL111925
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/19/25 13:17	VL111925
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/19/25 13:17	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/19/25 13:17	VL111925
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/19/25 13:17	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	9A-SG-2	SDG No.:	Q3626
Lab Sample ID:	Q3626-02	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	0.36	1.77	U	2	1.77	4.92	11/19/25 13:17	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 13:17	VL111925
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/19/25 13:17	VL111925
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 13:17	VL111925
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 13:17	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/19/25 13:17	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/19/25 13:17	VL111925
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/19/25 13:17	VL111925
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/19/25 13:17	VL111925
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/19/25 13:17	VL111925
110-54-3	Hexane	1.50	5.29		2	1.13	3.52	11/19/25 13:17	VL111925
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/19/25 13:17	VL111925
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/19/25 13:17	VL111925
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/19/25 13:17	VL111925
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	105000							
540-36-3	1,4-Difluorobenzene	292000							
3114-55-4	Chlorobenzene-d5	228000							

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\VL111925\
Data File : VL043236.D
Acq On : 19 Nov 2025 13:17
Operator : SY/MD
Sample : Q3626-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:04:26 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 :
9A-SG-2

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	105026	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	292365	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	227868	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.371	95	164621	9.856	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3866	0.261	ppbv		98
3) Chlorodifluoromethane	1.476	51	1653m	0.113	ppbv		
9) Propene	1.486	41	5369	0.868	ppbv	#	1
10) Heptane	4.978	43	2280m	0.124	ppbv		
11) Trichlorofluoromethane	1.878	101	5081	0.354	ppbv		91
13) Ethanol	1.719	45	12902	5.931	ppbv		96
15) Acetone	1.836	43	116398	7.977	ppbv		98
17) tert-Butyl alcohol	2.039	59	9149m	0.478	ppbv		
19) Isopropyl Alcohol	1.884	45	51704	6.271	ppbv	#	73
20) Methylene Chloride	2.062	84	8662	1.334	ppbv		92
26) Hexane	2.826	57	10226	0.741	ppbv	#	44
27) Carbon Disulfide	2.150	76	5334	0.379	ppbv	#	1
29) Chloroform	2.845	83	39446	2.011	ppbv		98
32) 1,1,1-Trichloroethane	3.373	97	892m	0.043	ppbv		
34) 2-Butanone	2.557	43	5651	0.274	ppbv		95
35) Carbon Tetrachloride	3.752	117	738m	0.033	ppbv		
36) Benzene	3.655	78	4112	0.147	ppbv		97
38) Trichloroethene	4.548	130	1447m	0.132	ppbv		
52) Tetrachloroethene	8.218	164	7582	0.728	ppbv		89
53) Toluene	6.927	91	5176m	0.156	ppbv		

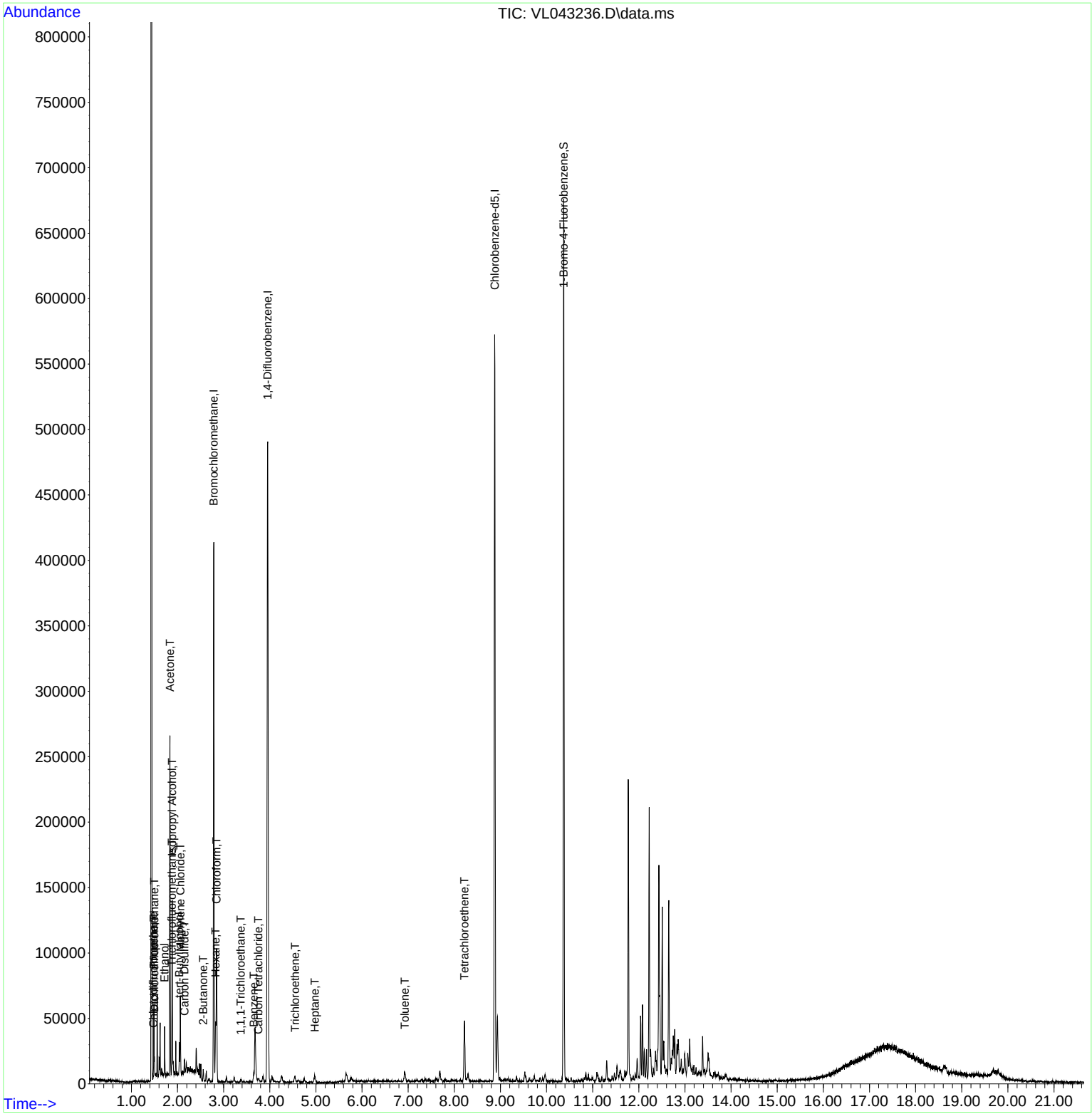
(#) = qualifier out of range (m) = manual integration (+) = signals summed

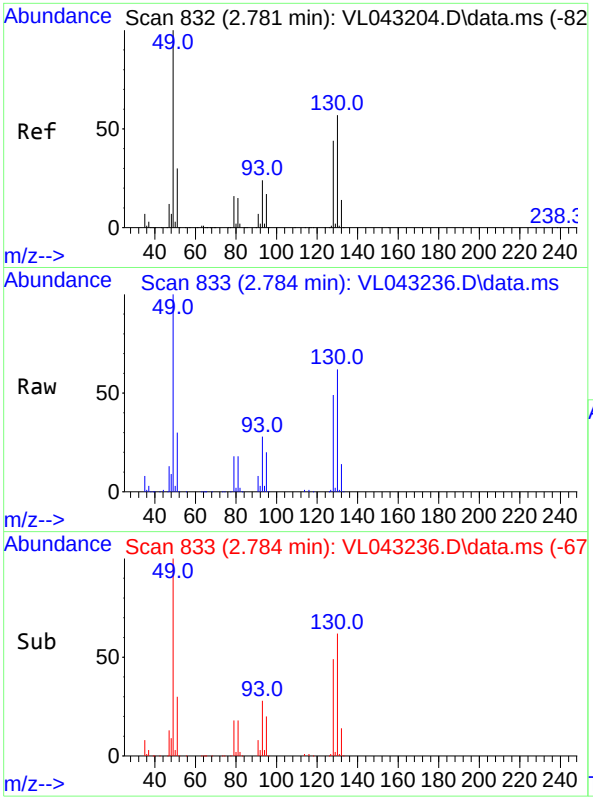
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043236.D
Acq On : 19 Nov 2025 13:17
Operator : SY/MD
Sample : Q3626-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:04:26 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 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

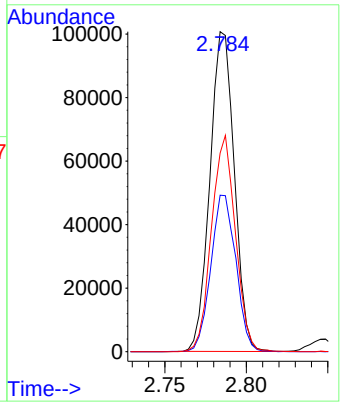




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 49 Resp: 10502

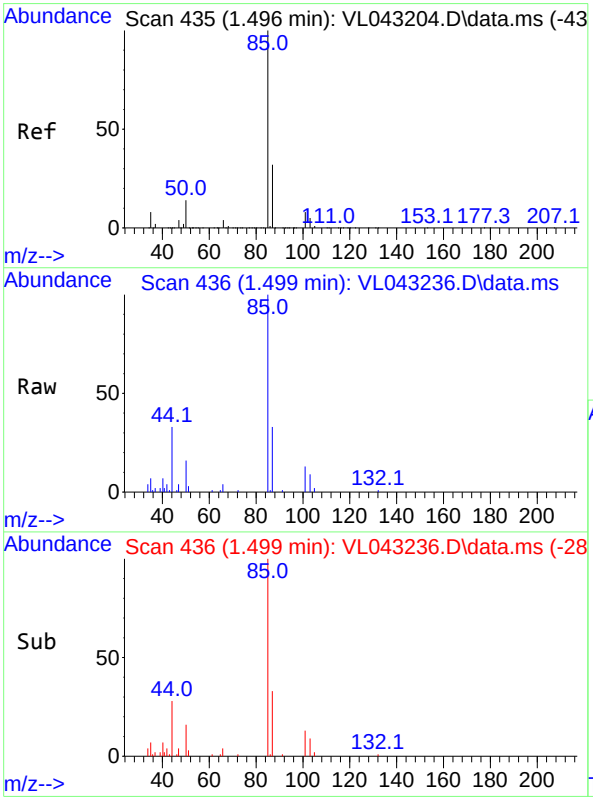
Ion	Ratio	Lower	Upper
49	100		
128	50.2	23.0	69.0
130	66.3	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Manual Integrations
APPROVED

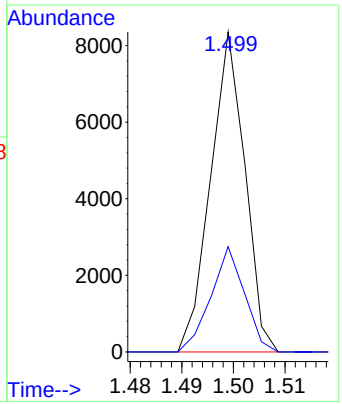
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

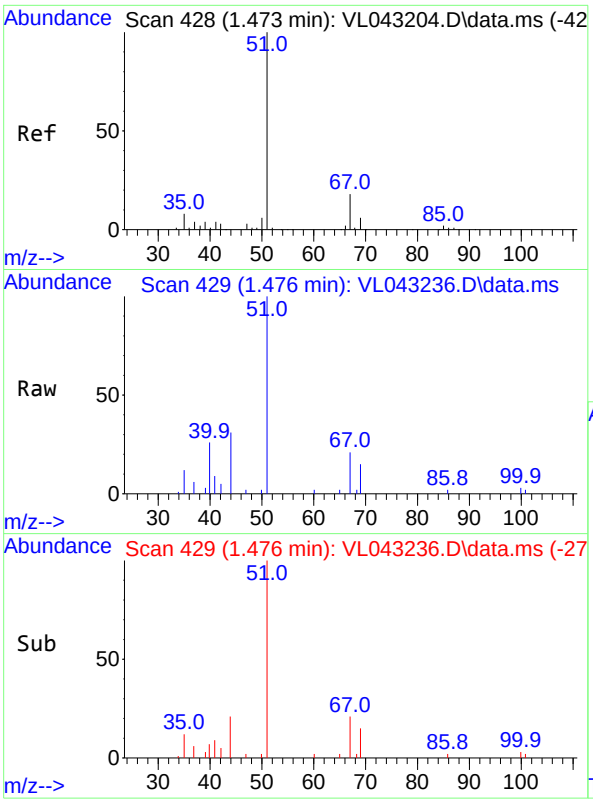


#2
Dichlorodifluoromethane
Concen: 0.261 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 85 Resp: 3866

Ion	Ratio	Lower	Upper
85	100		
87	32.9	25.4	38.2

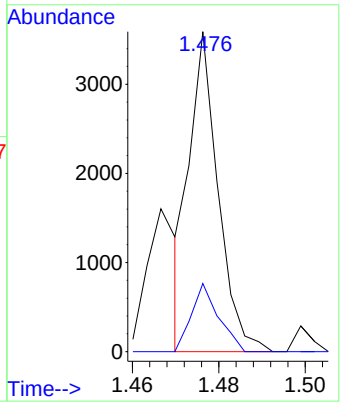




#3
Chlorodifluoromethane
Concen: 0.113 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 51 Resp: 165

Ion	Ratio	Lower	Upper
51	100		
67	20.2	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Manual Integrations
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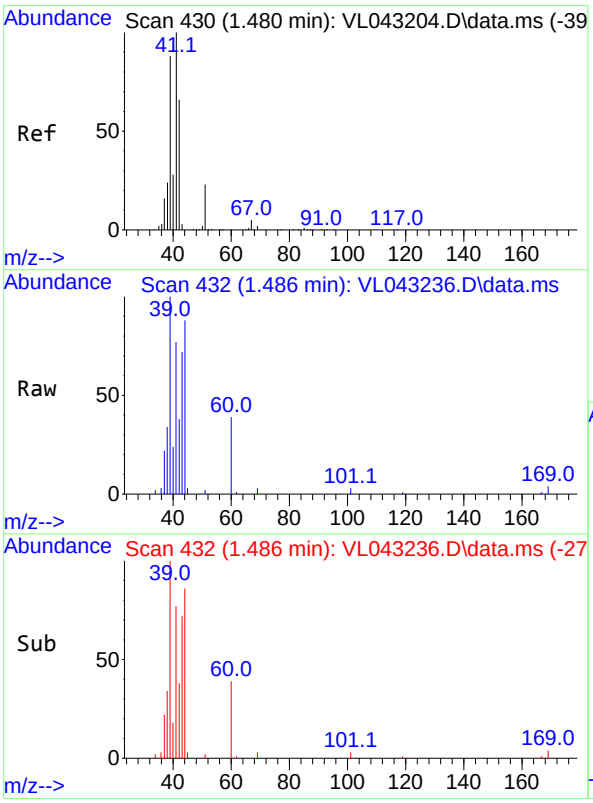
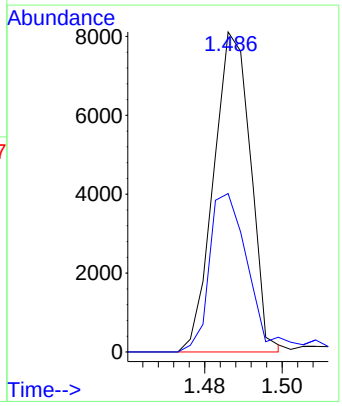
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

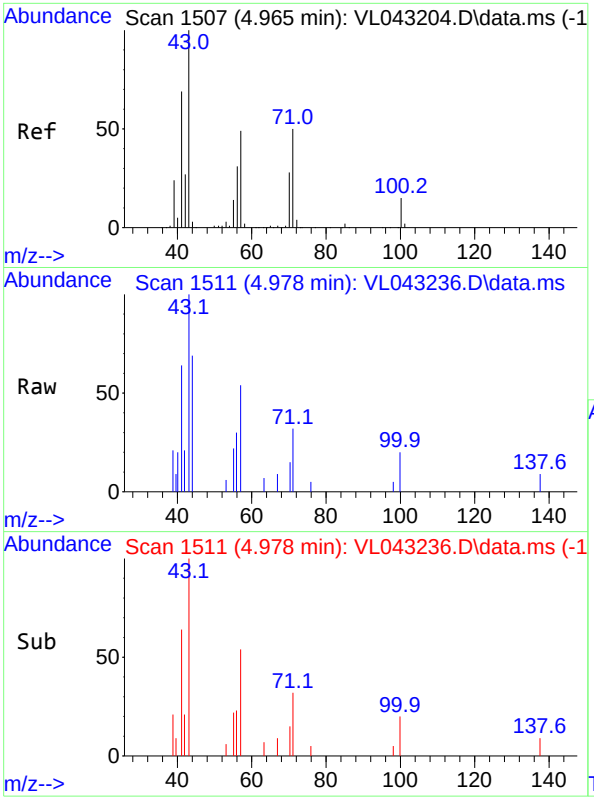


#9
Propene
Concen: 0.868 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 41 Resp: 5369

Ion	Ratio	Lower	Upper
41	100		
42	55.0	3.7	5.5#

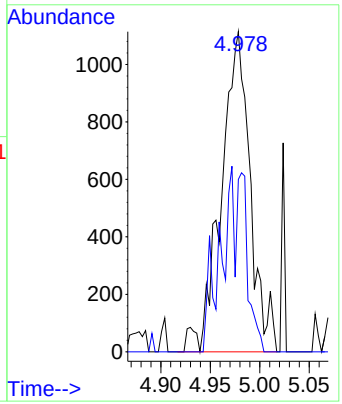




#10
Heptane
Concen: 0.124 ppbv m
RT: 4.978 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 43 Resp: 228

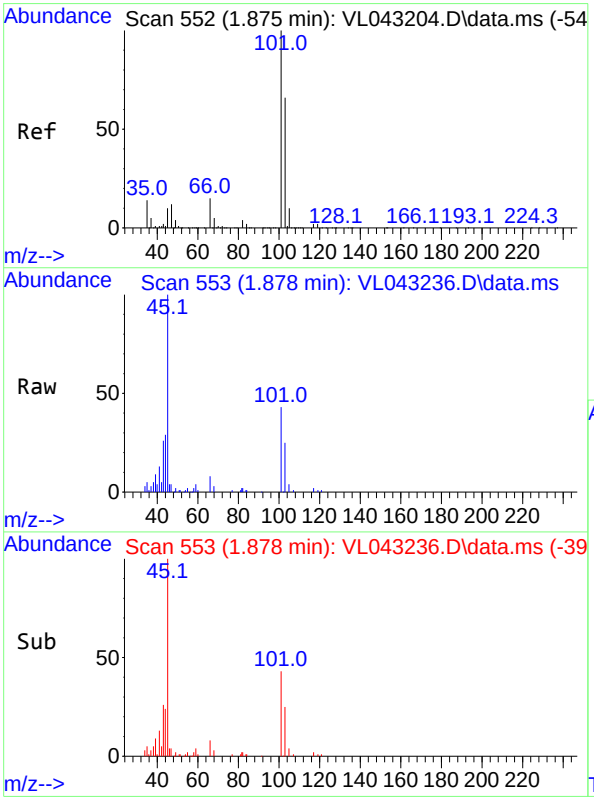
Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Manual Integrations
APPROVED

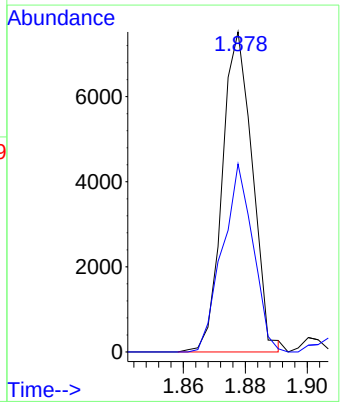
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

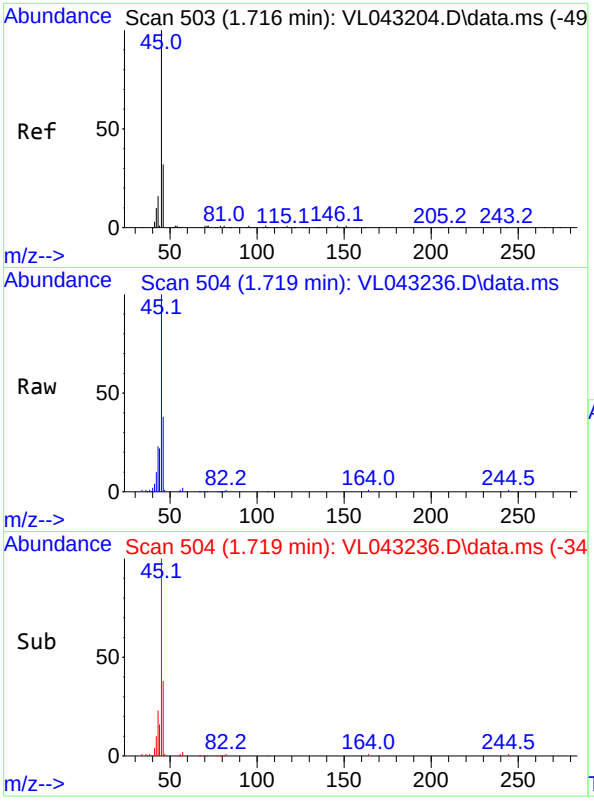


#11
Trichlorofluoromethane
Concen: 0.354 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion:101 Resp: 5081

Ion	Ratio	Lower	Upper
101	100		
103	58.7	52.6	79.0

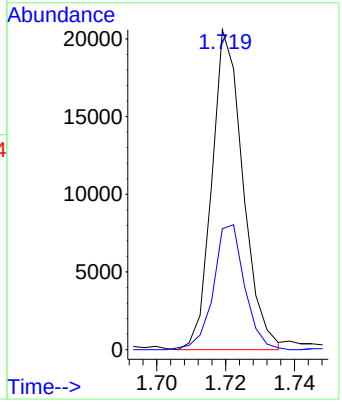




#13
Ethanol
Concen: 5.931 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 45 Resp: 1290

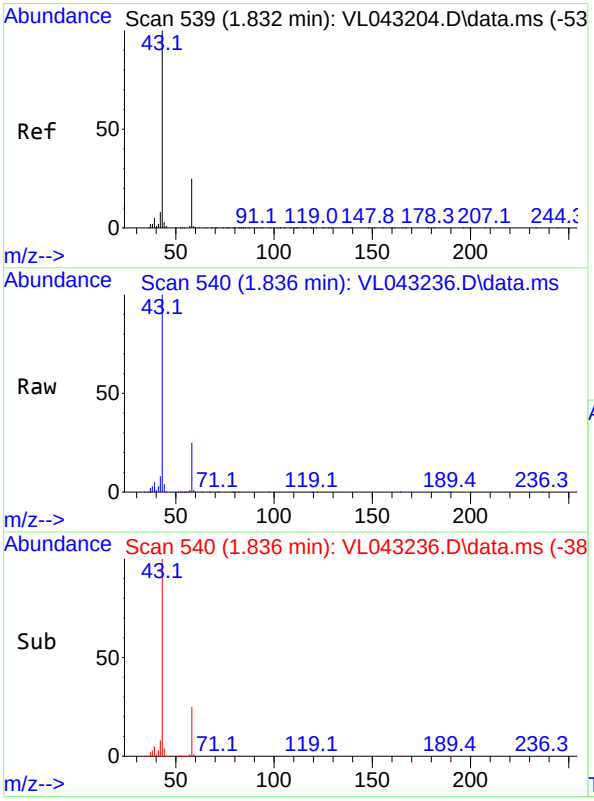
Ion	Ratio	Lower	Upper
45	100		
46	40.0	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Manual Integrations
APPROVED

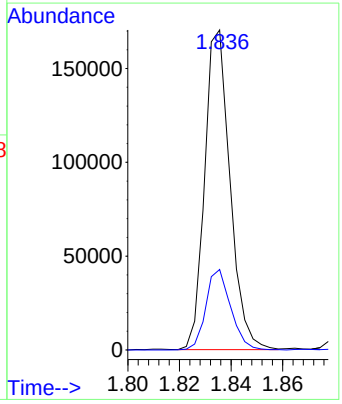
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

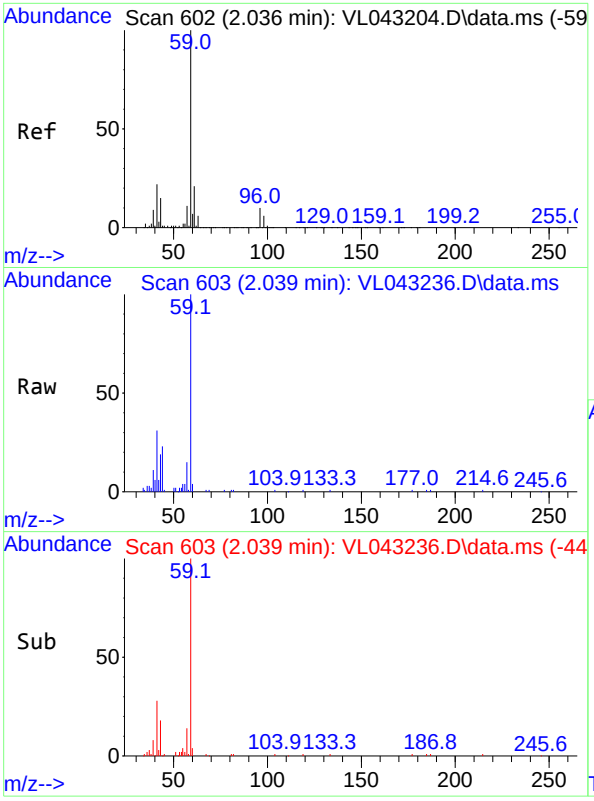


#15
Acetone
Concen: 7.977 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 43 Resp: 116398

Ion	Ratio	Lower	Upper
43	100		
58	24.8	20.7	31.1

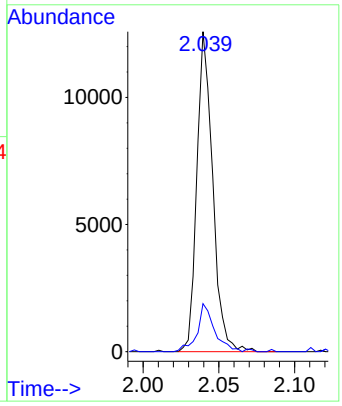




#17
tert-Butyl alcohol
Concen: 0.478 ppbv m
RT: 2.039 min Scan# 6(
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 59 Resp: 914(

Ion	Ratio	Lower	Upper
59	100		
57	2.0	9.0	13.4#



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
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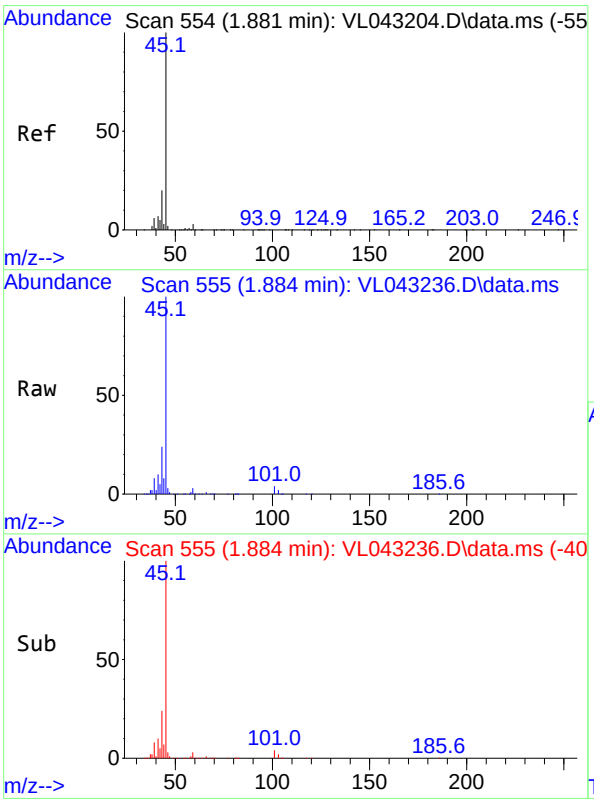
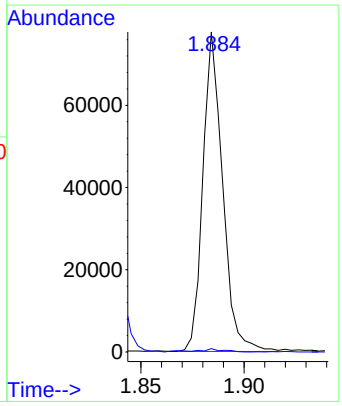
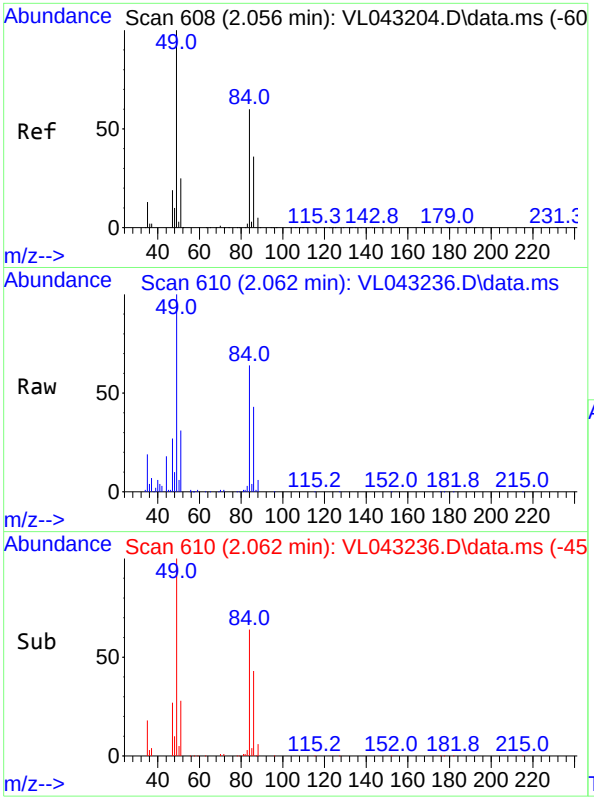


#19
Isopropyl Alcohol
Concen: 6.271 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 45 Resp: 51704

Ion	Ratio	Lower	Upper
45	100		
58	55.7	31.3	46.9#

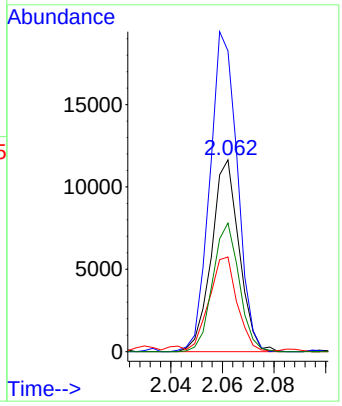




#20
Methylene Chloride
Concen: 1.334 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 84 Resp: 866

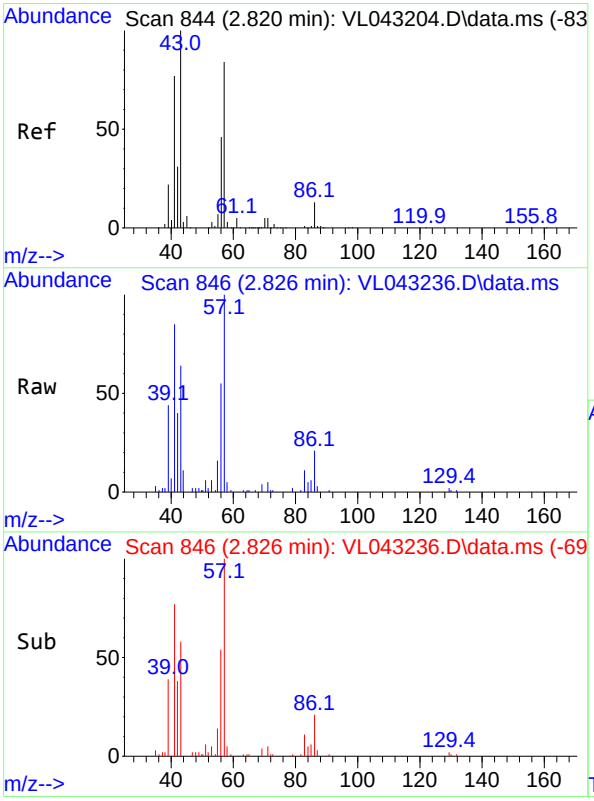
Ion	Ratio	Lower	Upper
84	100		
49	156.2	132.9	199.3
51	48.8	34.8	52.2
86	67.0	48.2	72.2



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Manual Integrations
APPROVED

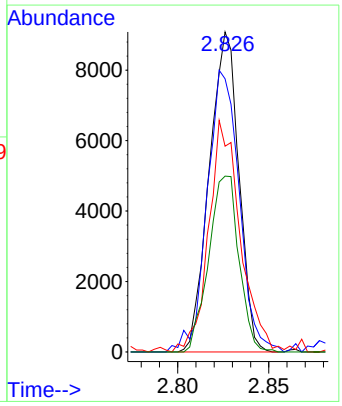
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

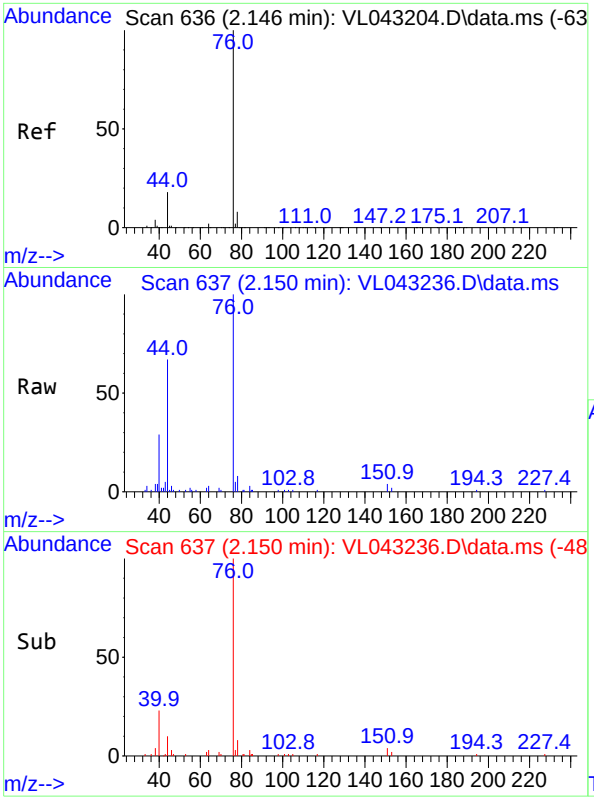


#26
Hexane
Concen: 0.741 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 57 Resp: 10226

Ion	Ratio	Lower	Upper
57	100		
41	98.2	74.6	111.8
43	79.0	179.0	268.4#
56	56.2	42.3	63.5

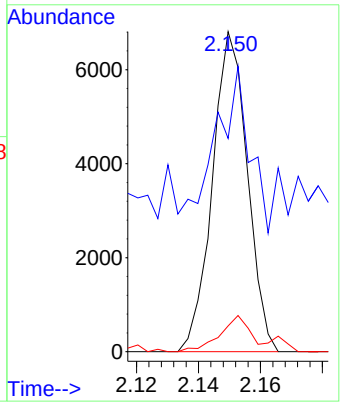




#27
Carbon Disulfide
Concen: 0.379 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 76 Resp: 533

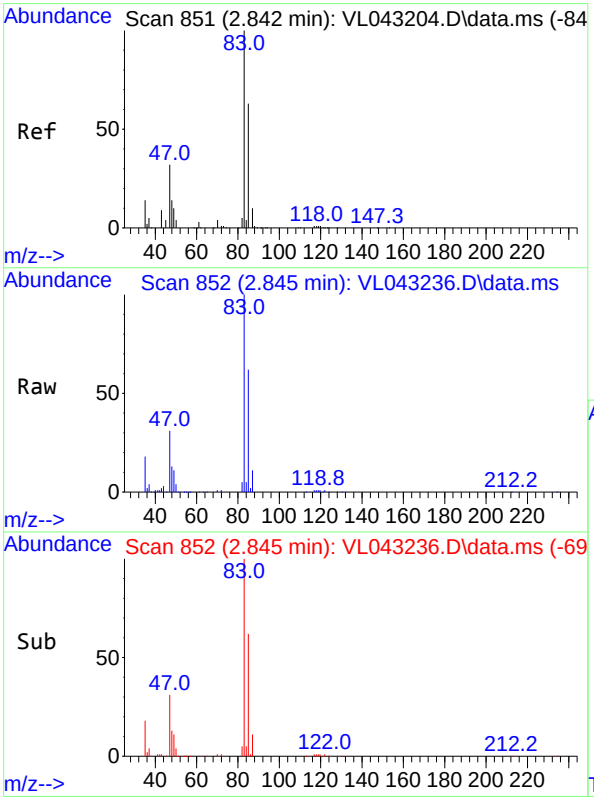
Ion	Ratio	Lower	Upper
76	100		
44	111.0	16.1	24.1
78	12.2	9.6	14.4



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Manual Integrations
APPROVED

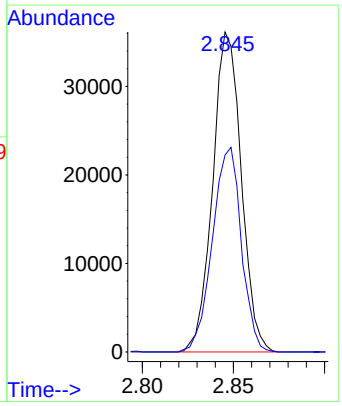
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

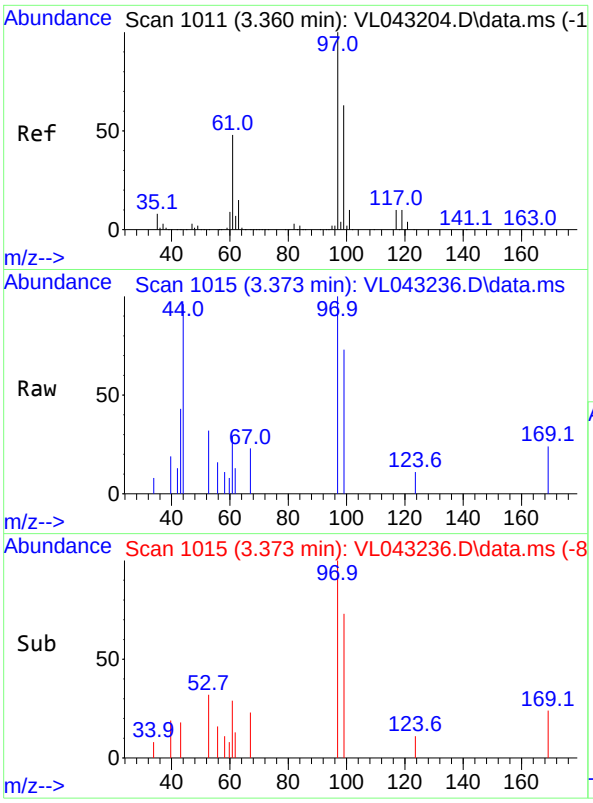


#29
Chloroform
Concen: 2.011 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 83 Resp: 39446

Ion	Ratio	Lower	Upper
83	100		
85	61.5	50.5	75.7

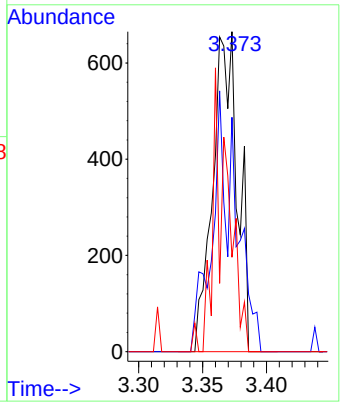




#32
1,1,1-Trichloroethane
Concen: 0.043 ppbv m
RT: 3.373 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 97 Resp: 89

Ion	Ratio	Lower	Upper
97	100		
99	76.9	50.3	75.5
61	54.3	38.9	58.3



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Manual Integrations
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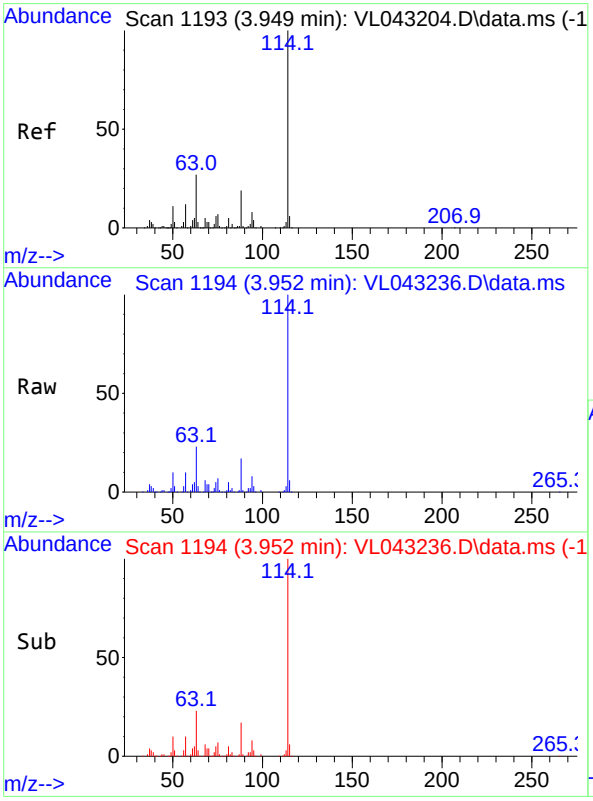
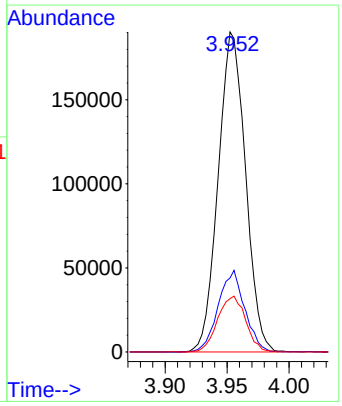
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

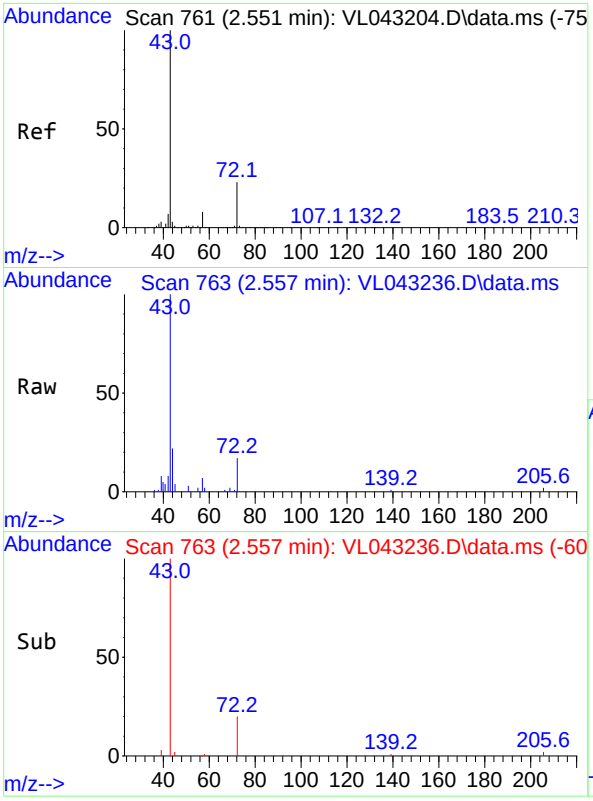


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion:114 Resp: 292365

Ion	Ratio	Lower	Upper
114	100		
63	24.8	21.0	31.6
88	17.9	14.9	22.3

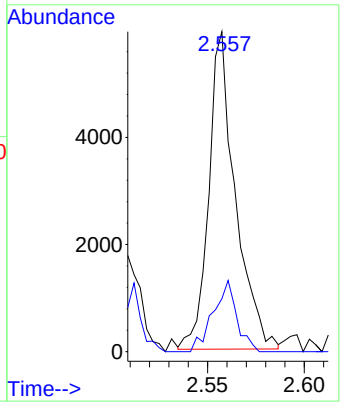




#34
2-Butanone
Concen: 0.274 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 43 Resp: 565

Ion	Ratio	Lower	Upper
43	100		
72	20.0	18.1	27.1



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Manual Integrations
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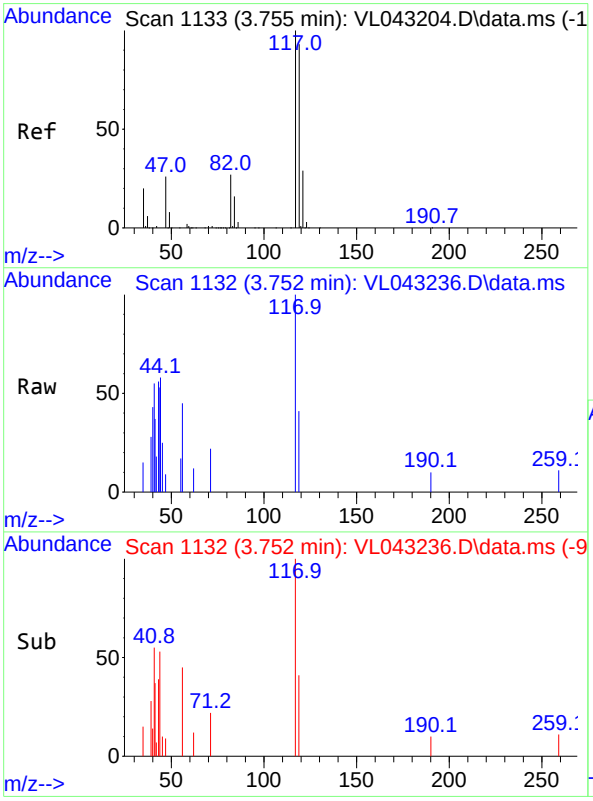
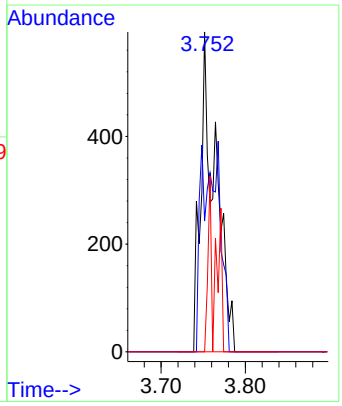
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

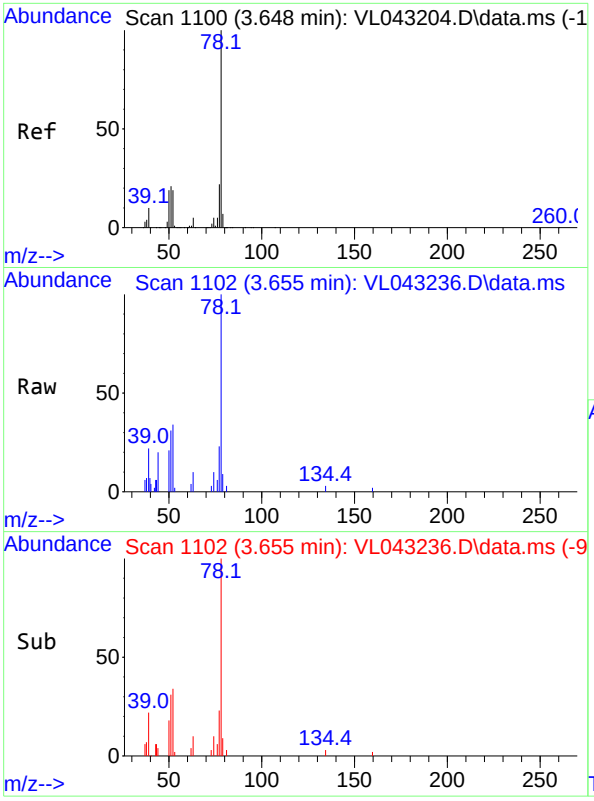


#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.752 min Scan# 1132
Delta R.T. -0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion:117 Resp: 738

Ion	Ratio	Lower	Upper
117	100		
119	40.9	74.6	112.0#
121	0.0	23.2	34.8#

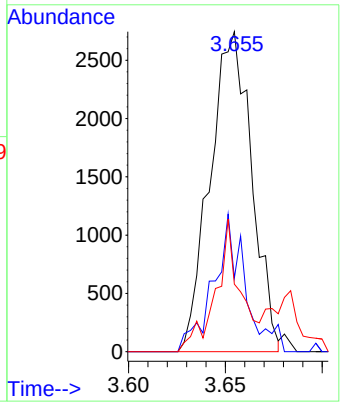




#36
Benzene
Concen: 0.147 ppbv
RT: 3.655 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 78 Resp: 411

Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.5	26.3
50	21.1	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Manual Integrations
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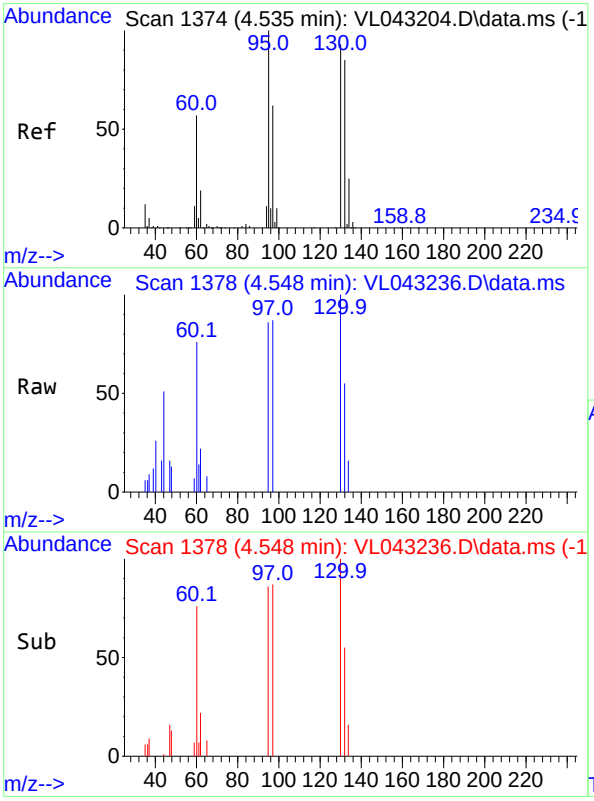
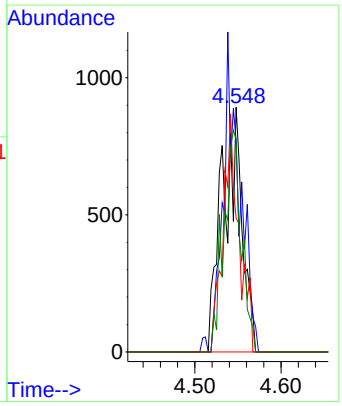
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

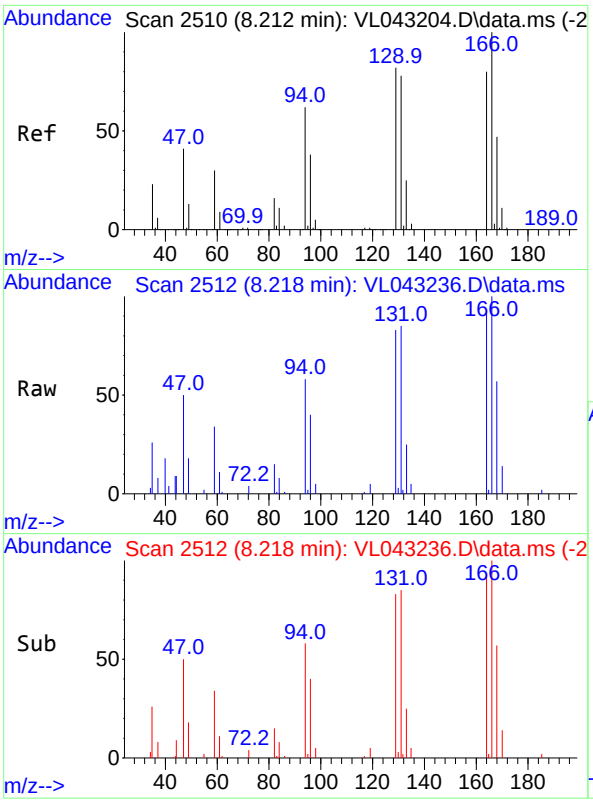


#38
Trichloroethene
Concen: 0.132 ppbv m
RT: 4.548 min Scan# 1378
Delta R.T. 0.013 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion:130 Resp: 1447

Ion	Ratio	Lower	Upper
130	100		
95	86.3	85.7	128.5
132	54.7	73.4	110.0#
97	86.9	52.7	79.1#

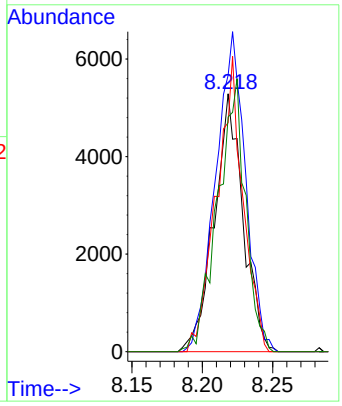




#52
Tetrachloroethene
Concen: 0.728 ppbv
RT: 8.218 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion:164 Resp: 758

Ion	Ratio	Lower	Upper
164	100		
166	107.1	99.4	149.2
129	88.8	81.8	122.8
131	92.9	77.4	116.2



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Manual Integrations
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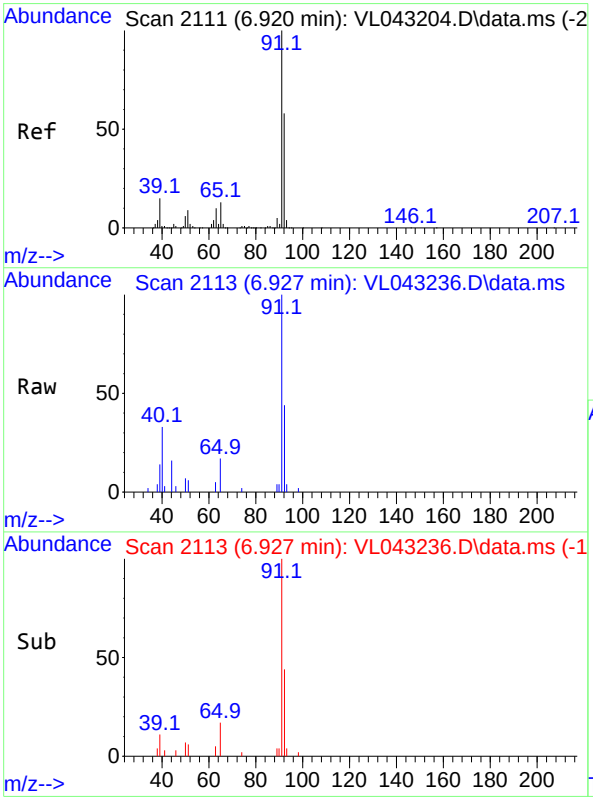
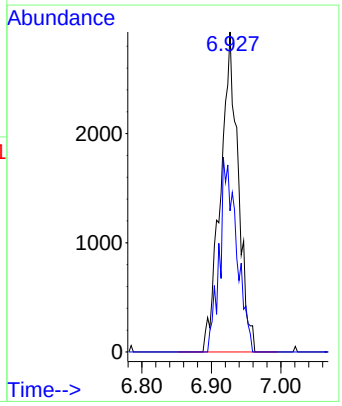
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

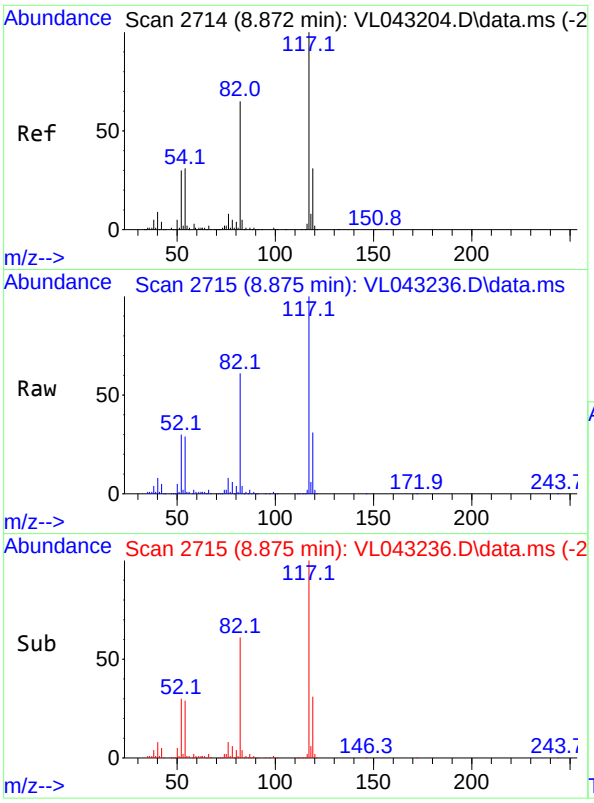


#53
Toluene
Concen: 0.156 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 91 Resp: 5176

Ion	Ratio	Lower	Upper
91	100		
92	59.1	47.4	71.0

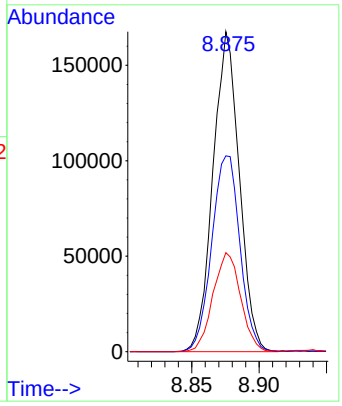




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion:117 Resp: 22786

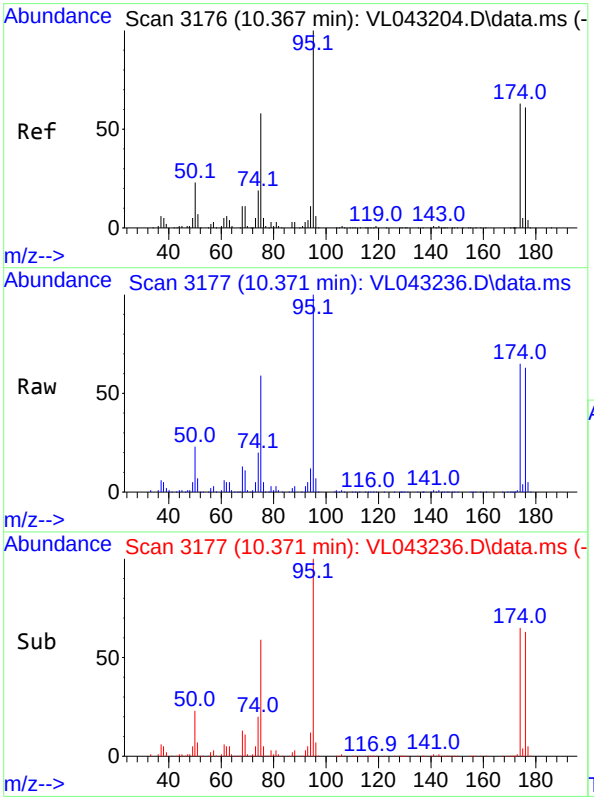
Ion	Ratio	Lower	Upper
117	100		
82	65.8	56.1	84.1
119	32.5	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Manual Integrations
APPROVED

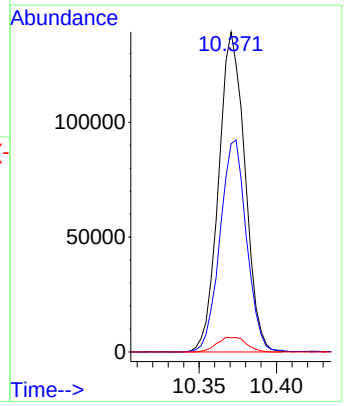
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.856 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 95 Resp: 164621

Ion	Ratio	Lower	Upper
95	100		
174	66.9	50.2	75.2
175	5.1	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:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	9B-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-03	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	0.58	2.87	J	2	1.09	4.94	11/19/25 13:50	VL111925
74-87-3	Chloromethane	0.23	0.47	J	2	0.41	2.07	11/19/25 13:50	VL111925
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/19/25 13:50	VL111925
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/19/25 13:50	VL111925
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/19/25 13:50	VL111925
109-99-9	Tetrahydrofuran	0.16	0.47	U	2	0.47	2.95	11/19/25 13:50	VL111925
75-69-4	Trichlorofluoromethane	0.34	1.91	U	2	1.91	5.62	11/19/25 13:50	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/19/25 13:50	VL111925
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/19/25 13:50	VL111925
75-65-0	tert-Butyl alcohol	0.37	1.12	J	2	0.97	3.03	11/19/25 13:50	VL111925
142-82-5	Heptane	0.34	1.39	U	2	1.39	4.10	11/19/25 13:50	VL111925
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/19/25 13:50	VL111925
67-64-1	Acetone	16.6	39.4		2	0.86	2.38	11/19/25 13:50	VL111925
75-15-0	Carbon Disulfide	0.16	0.50	U	2	0.50	3.11	11/19/25 13:50	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/19/25 13:50	VL111925
75-09-2	Methylene Chloride	2.60	9.03		2	1.60	3.47	11/19/25 13:50	VL111925
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/19/25 13:50	VL111925
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/19/25 13:50	VL111925
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/19/25 13:50	VL111925
78-93-3	2-Butanone	2.00	5.90		2	0.32	2.95	11/19/25 13:50	VL111925
56-23-5	Carbon Tetrachloride	0.050	0.31	U	2	0.31	0.38	11/19/25 13:50	VL111925
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/19/25 13:50	VL111925
67-66-3	Chloroform	0.19	0.93	U	2	0.93	4.88	11/19/25 13:50	VL111925
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	2	0.16	0.33	11/19/25 13:50	VL111925
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/19/25 13:50	VL111925
71-43-2	Benzene	3.10	9.90		2	0.51	3.19	11/19/25 13:50	VL111925
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/19/25 13:50	VL111925
79-01-6	Trichloroethene	0.16	0.86		2	0.27	0.32	11/19/25 13:50	VL111925
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/19/25 13:50	VL111925
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/19/25 13:50	VL111925
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	U	2	0.78	4.10	11/19/25 13:50	VL111925
108-88-3	Toluene	0.48	1.81	J	2	1.21	3.77	11/19/25 13:50	VL111925
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/19/25 13:50	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/19/25 13:50	VL111925
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/19/25 13:50	VL111925
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/19/25 13:50	VL111925
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/19/25 13:50	VL111925
127-18-4	Tetrachloroethene	19.2	130		2	0.20	0.41	11/19/25 13:50	VL111925
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/19/25 13:50	VL111925
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/19/25 13:50	VL111925
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/19/25 13:50	VL111925
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/19/25 13:50	VL111925
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/19/25 13:50	VL111925
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/19/25 13:50	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/19/25 13:50	VL111925
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/19/25 13:50	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	9B-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-03	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	0.36	1.77	U	2	1.77	4.92	11/19/25 13:50	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 13:50	VL111925
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/19/25 13:50	VL111925
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 13:50	VL111925
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 13:50	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/19/25 13:50	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/19/25 13:50	VL111925
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/19/25 13:50	VL111925
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/19/25 13:50	VL111925
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/19/25 13:50	VL111925
110-54-3	Hexane	1.60	5.64		2	1.13	3.52	11/19/25 13:50	VL111925
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/19/25 13:50	VL111925
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/19/25 13:50	VL111925
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/19/25 13:50	VL111925
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	103000							
540-36-3	1,4-Difluorobenzene	291000							
3114-55-4	Chlorobenzene-d5	231000							

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\VL111925\
Data File : VL043237.D
Acq On : 19 Nov 2025 13:50
Operator : SY/MD
Sample : Q3626-03 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:04:50 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 :
9B-SG-1

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	102616	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	290774	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	231142	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	167299	9.874	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	4164	0.288	ppbv #	84
3) Chlorodifluoromethane	1.476	51	1684m	0.118	ppbv	
4) Chloromethane	1.531	50	635	0.117	ppbv #	88
9) Propene	1.486	41	2474	0.409	ppbv #	1
11) Trichlorofluoromethane	1.881	101	1987	0.142	ppbv	84
13) Ethanol	1.722	45	7021	3.303	ppbv #	38
15) Acetone	1.832	43	117974	8.275	ppbv	97
17) tert-Butyl alcohol	2.039	59	3430	0.183	ppbv #	82
19) Isopropyl Alcohol	1.887	45	4299	0.534	ppbv #	1
20) Methylene Chloride	2.059	84	8293	1.290	ppbv #	85
26) Hexane	2.819	57	10878	0.807	ppbv #	42
34) 2-Butanone	2.557	43	20773	1.012	ppbv	99
36) Benzene	3.651	78	43150	1.550	ppbv	97
38) Trichloroethene	4.528	130	850m	0.078	ppbv	
52) Tetrachloroethene	8.218	164	99519	9.608	ppbv	98
53) Toluene	6.920	91	7855m	0.238	ppbv	
59) m/p-Xylene	9.529	91	5081m	0.142	ppbv	
62) Isopropylbenzene	10.535	105	66231	1.039	ppbv	100

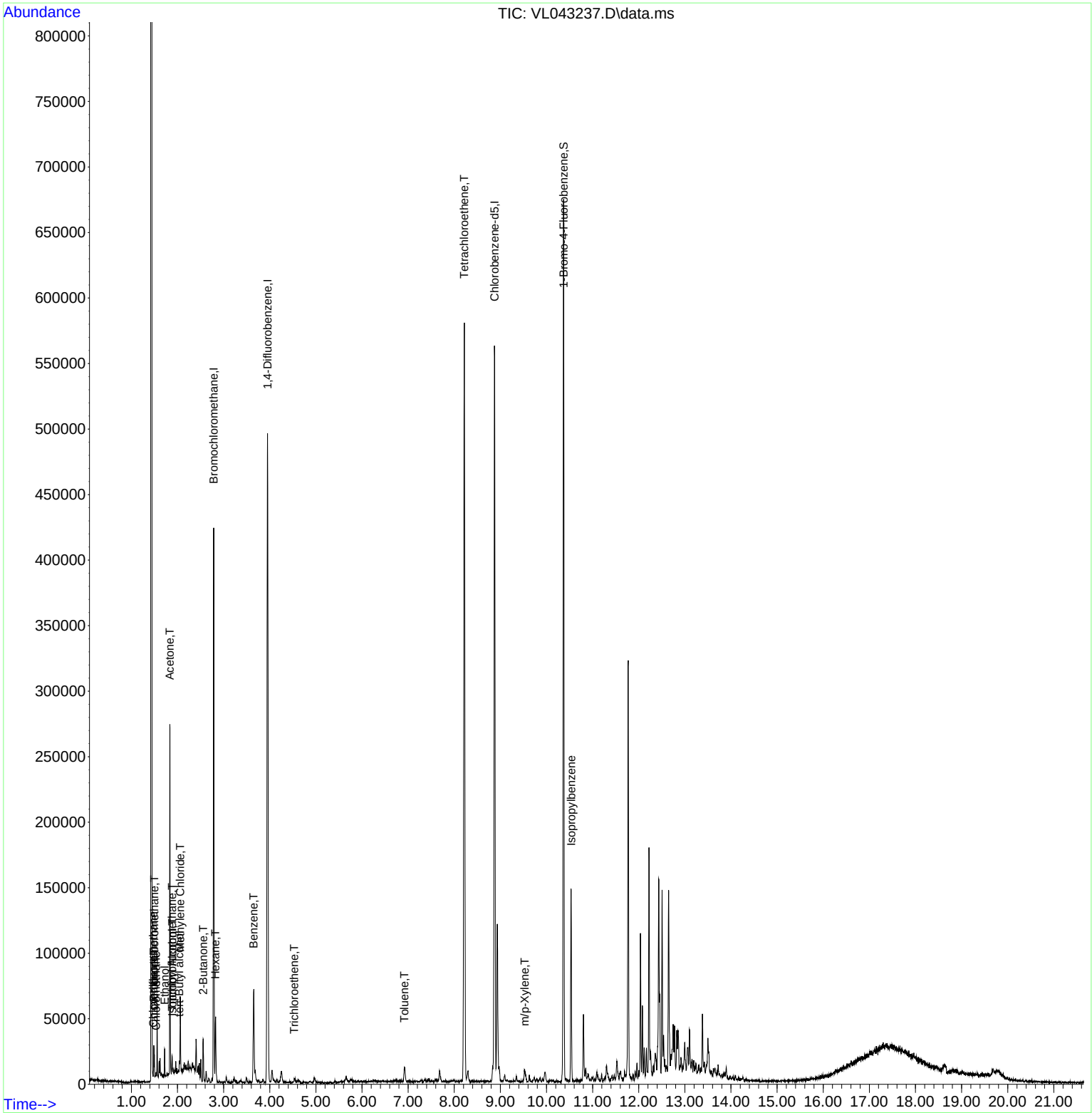
(#) = qualifier out of range (m) = manual integration (+) = signals summed

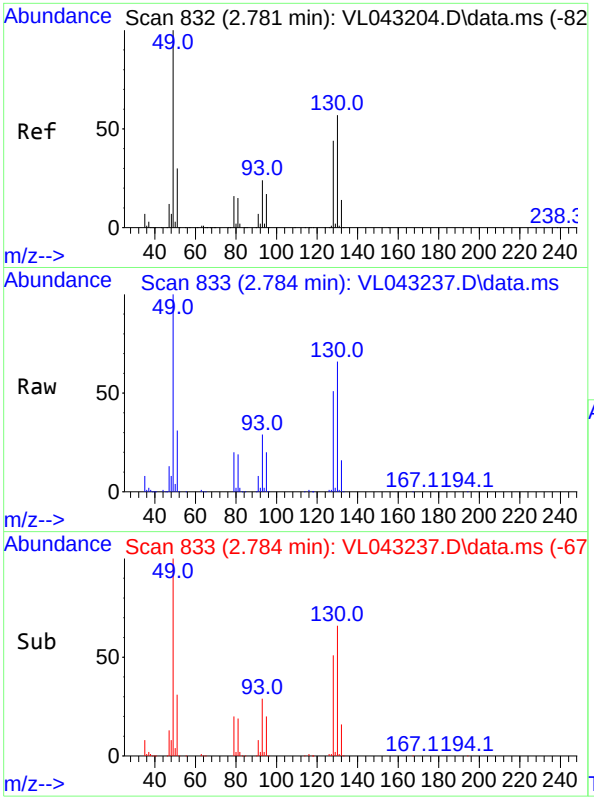
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043237.D
Acq On : 19 Nov 2025 13:50
Operator : SY/MD
Sample : Q3626-03 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:04:50 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 :
9B-SG-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

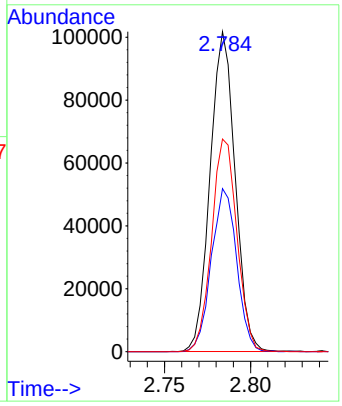




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 49 Resp: 10261

Ion	Ratio	Lower	Upper
49	100		
128	51.8	23.0	69.0
130	67.5	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Manual Integrations
APPROVED

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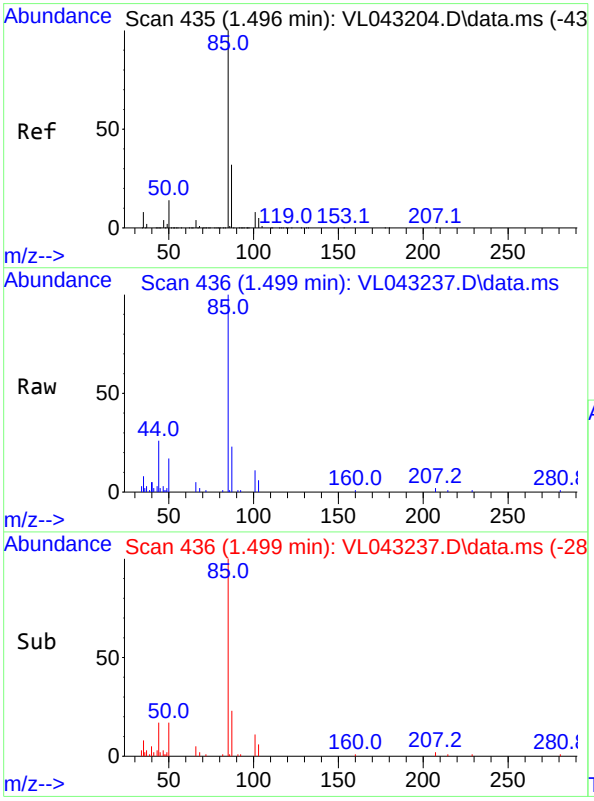
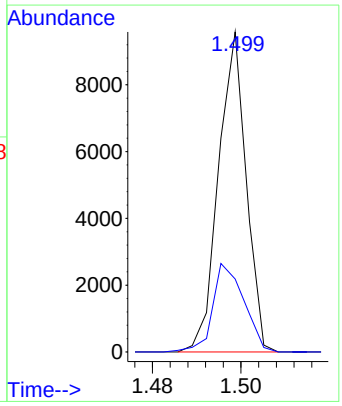
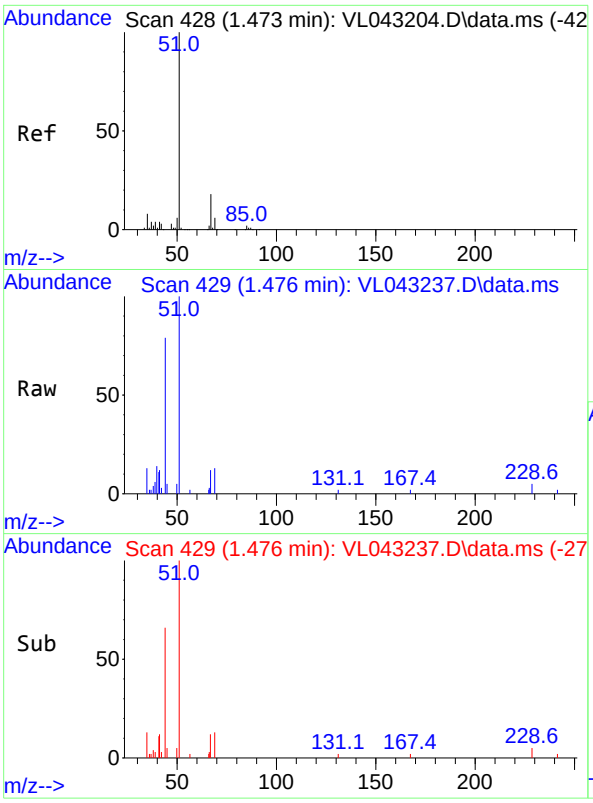


#2
Dichlorodifluoromethane
Concen: 0.288 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 85 Resp: 4164

Ion	Ratio	Lower	Upper
85	100		
87	22.8	25.4	38.2#

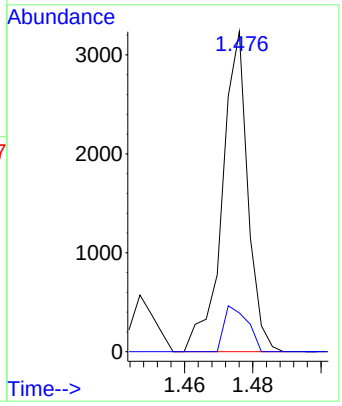




#3
Chlorodifluoromethane
Concen: 0.118 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 51 Resp: 168

Ion	Ratio	Lower	Upper
51	100		
67	2.2	14.9	22.3#



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

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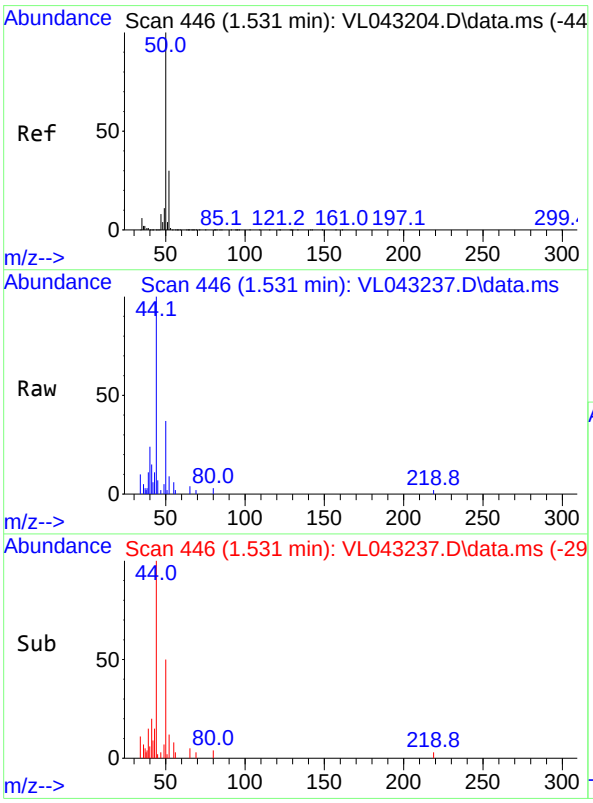
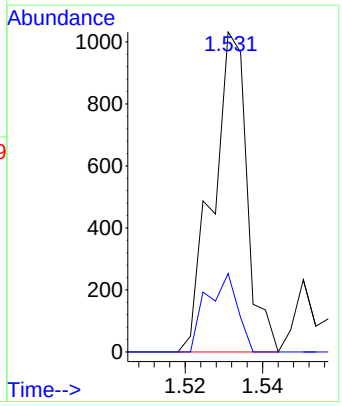
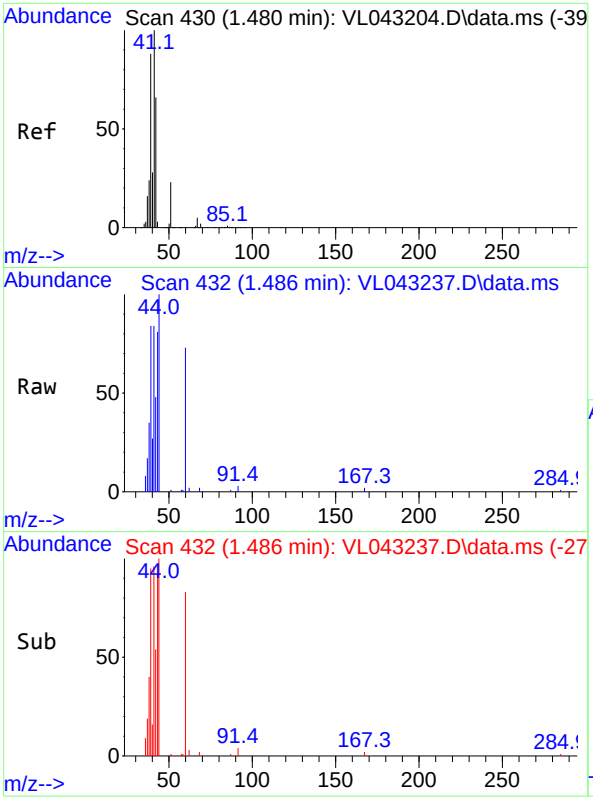


#4
Chloromethane
Concen: 0.117 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 50 Resp: 635

Ion	Ratio	Lower	Upper
50	100		
52	23.4	24.1	36.1#





#9
Propene
Concen: 0.409 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 41 Resp: 247

Ion	Ratio	Lower	Upper
41	100		
42	54.9	3.7	5.5

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Manual Integrations
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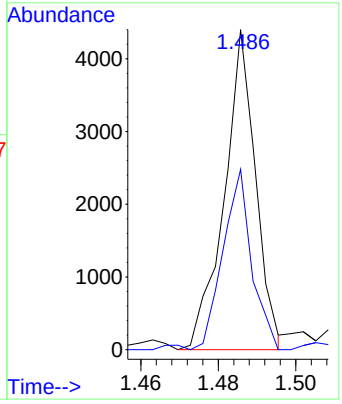
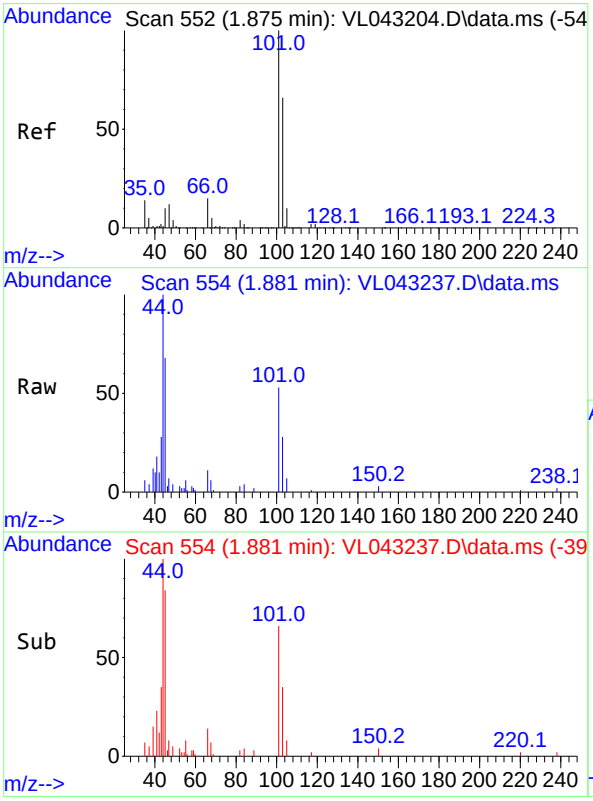
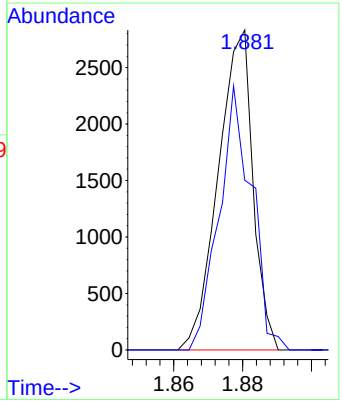


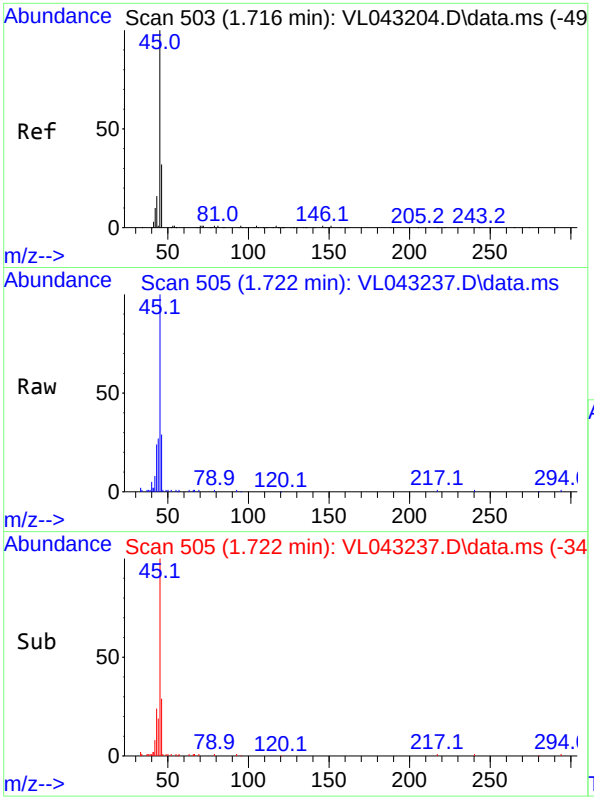


#11
Trichlorofluoromethane
Concen: 0.142 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:101 Resp: 1987

Ion	Ratio	Lower	Upper
101	100		
103	53.1	52.6	79.0

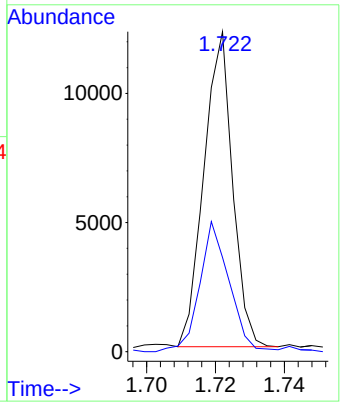




#13
Ethanol
Concen: 3.303 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 45 Resp: 702

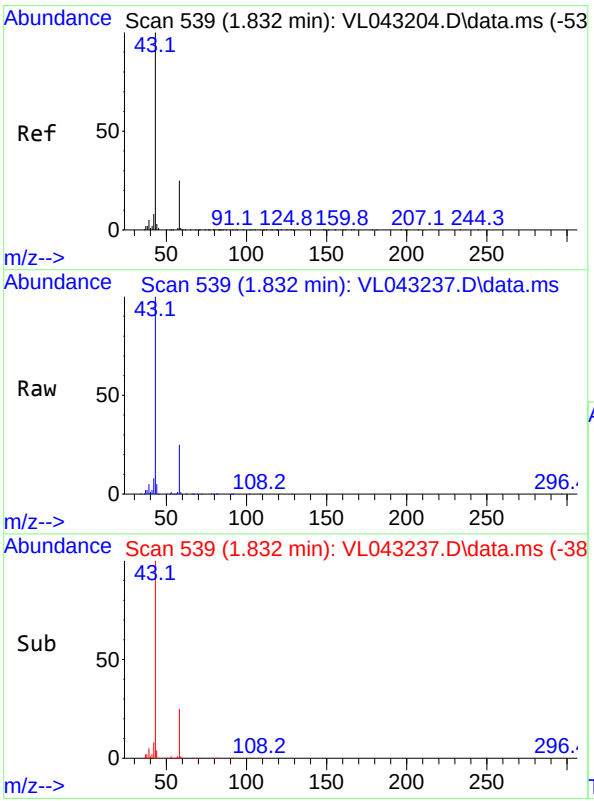
Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Manual Integrations
APPROVED

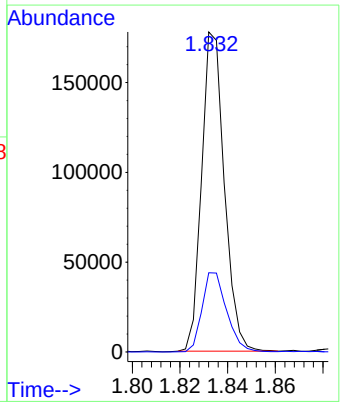
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

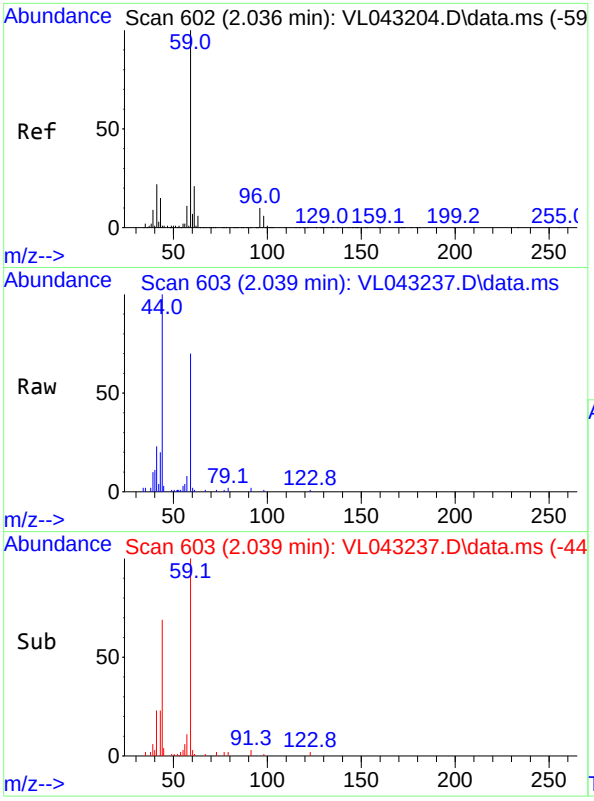


#15
Acetone
Concen: 8.275 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 43 Resp: 117974

Ion	Ratio	Lower	Upper
43	100		
58	27.3	20.7	31.1

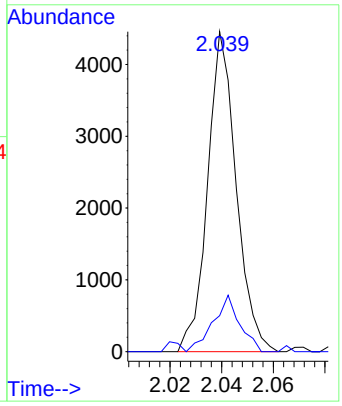




#17
tert-Butyl alcohol
Concen: 0.183 ppbv
RT: 2.039 min Scan# 6(
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 59 Resp: 343(

Ion	Ratio	Lower	Upper
59	100		
57	18.2	9.0	13.4#



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Manual Integrations
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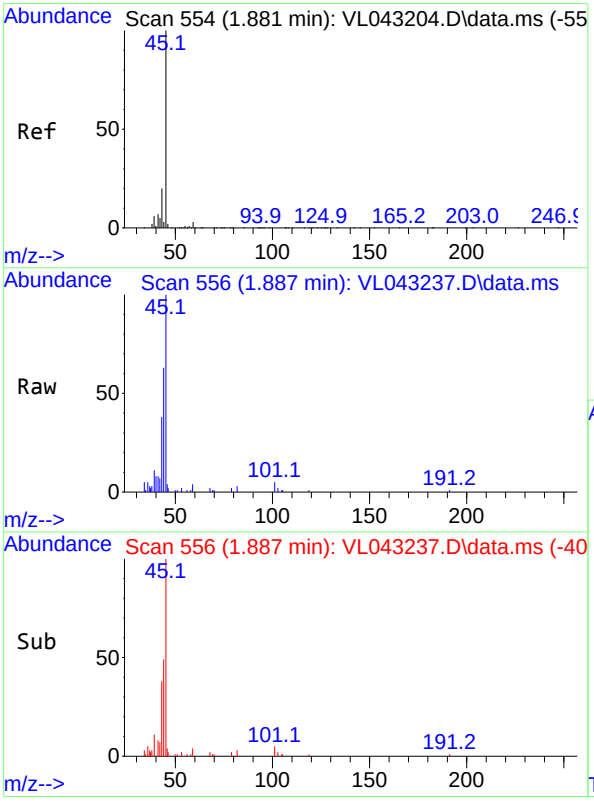
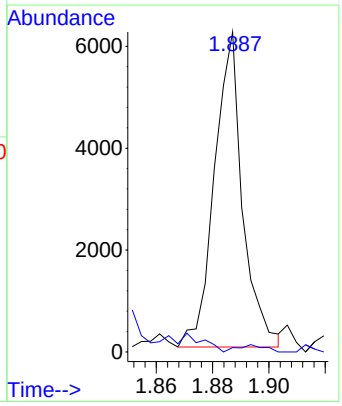
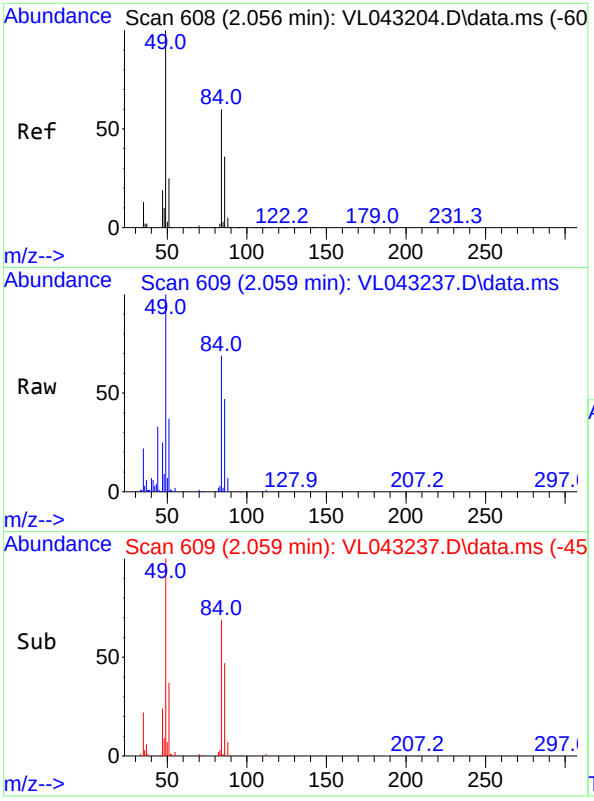


#19
Isopropyl Alcohol
Concen: 0.534 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 45 Resp: 4299

Ion	Ratio	Lower	Upper
45	100		
58	750.3	31.3	46.9#

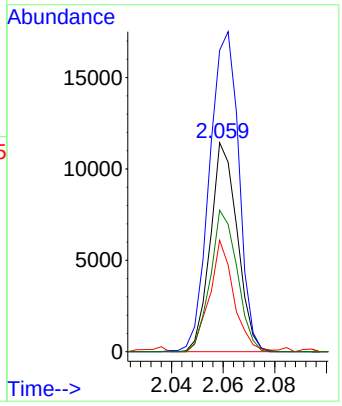




#20
Methylene Chloride
Concen: 1.290 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 84 Resp: 829

Ion	Ratio	Lower	Upper
84	100		
49	144.2	132.9	199.3
51	53.3	34.8	52.2#
86	67.6	48.2	72.2



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Manual Integrations
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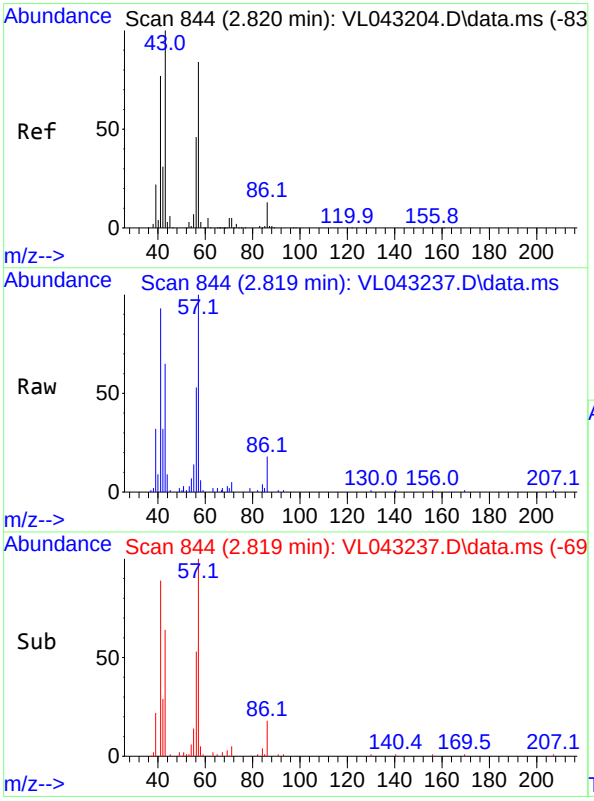
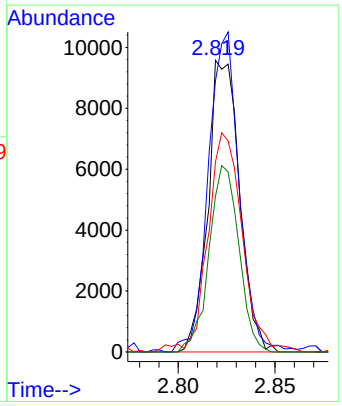
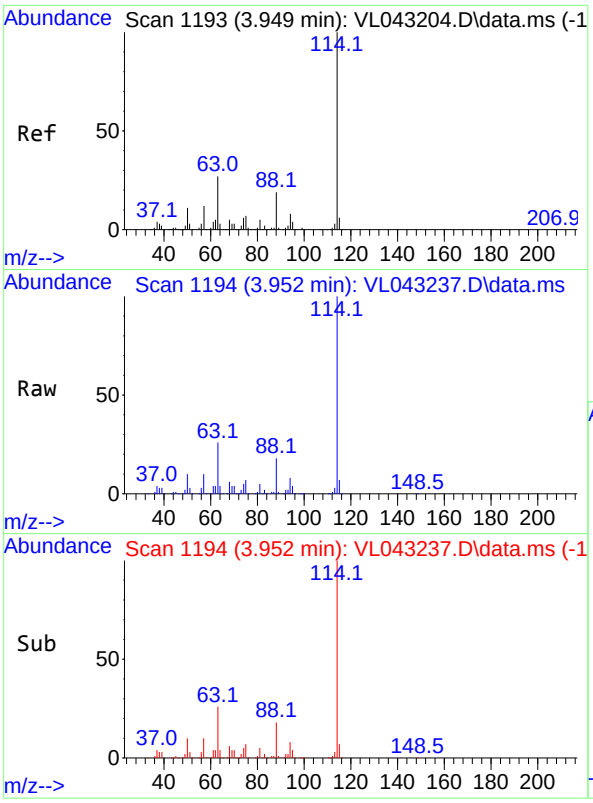


#26
Hexane
Concen: 0.807 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 57 Resp: 10878

Ion	Ratio	Lower	Upper
57	100		
41	108.0	74.6	111.8
43	81.7	179.0	268.4#
56	60.2	42.3	63.5

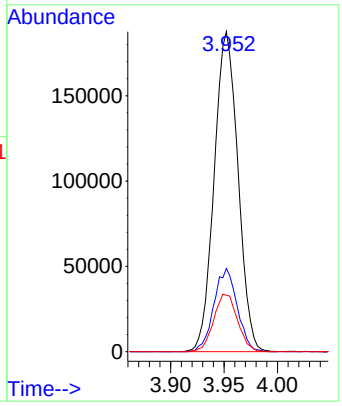




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:114 Resp: 29077

Ion	Ratio	Lower	Upper
114	100		
63	25.5	21.0	31.6
88	18.0	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Manual Integrations
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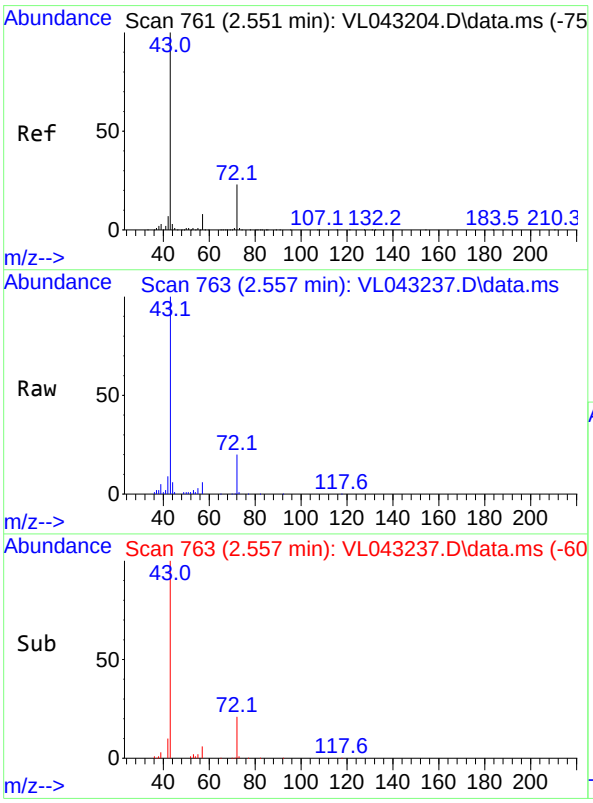
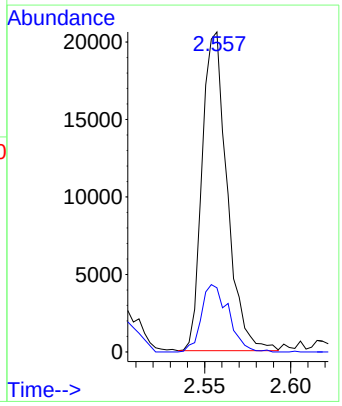
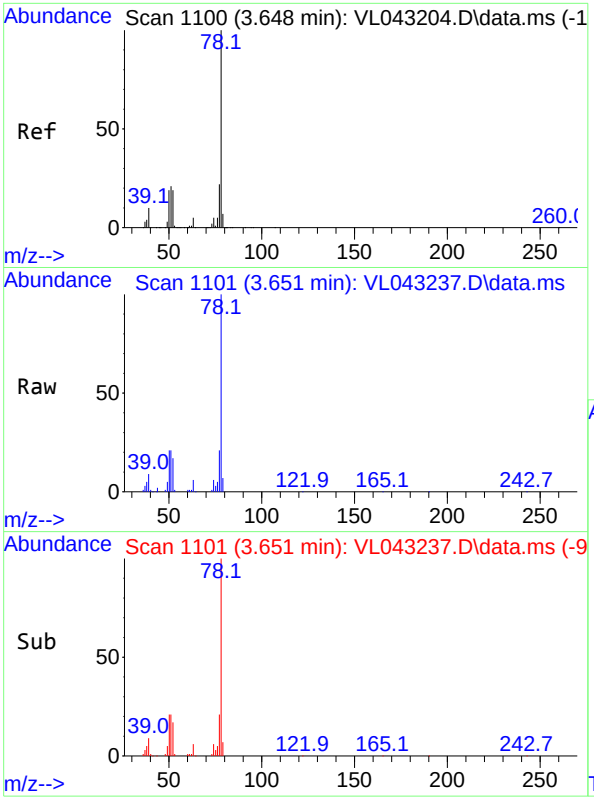


#34
2-Butanone
Concen: 1.012 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 43 Resp: 20773

Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.1	27.1

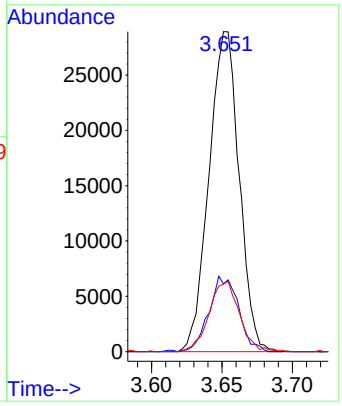




#36
Benzene
Concen: 1.550 ppbv
RT: 3.651 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 78 Resp: 4315

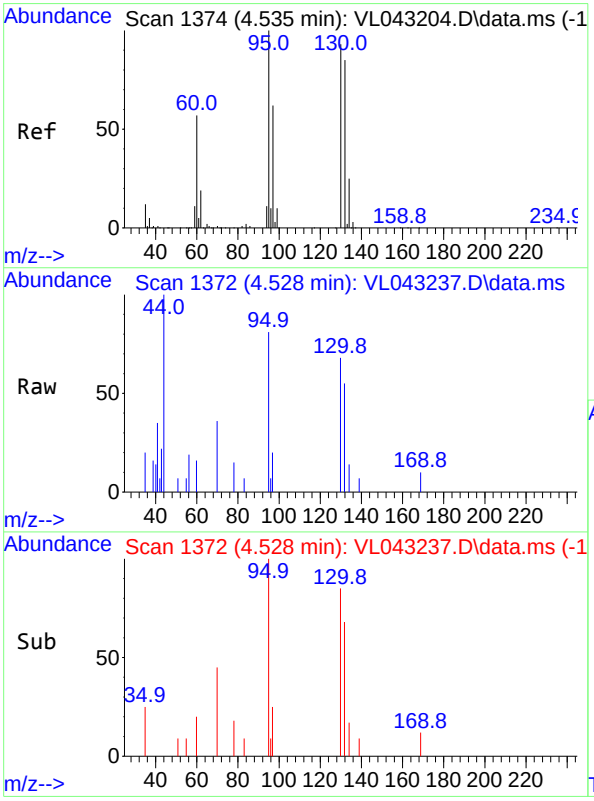
Ion	Ratio	Lower	Upper
78	100		
77	21.2	17.5	26.3
50	21.1	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Manual Integrations
APPROVED

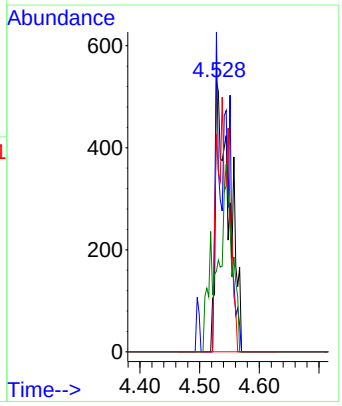
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

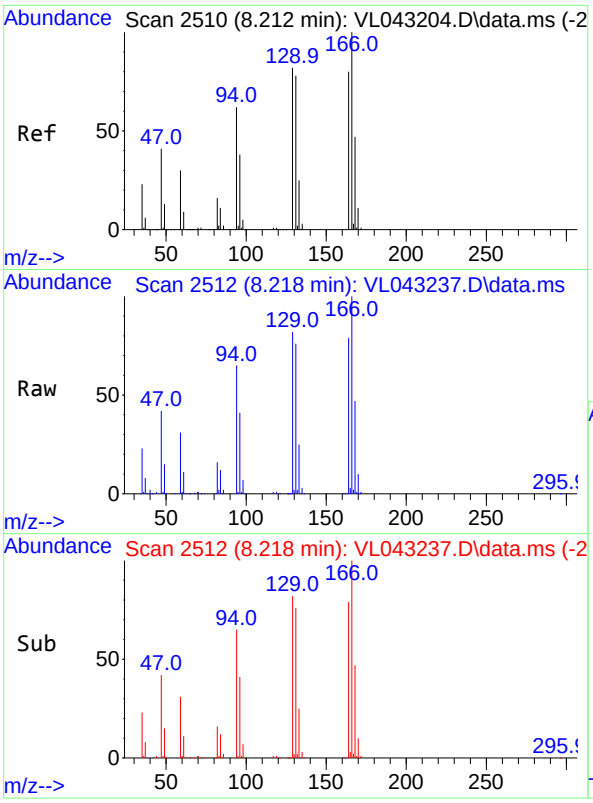


#38
Trichloroethene
Concen: 0.078 ppbv m
RT: 4.528 min Scan# 1372
Delta R.T. -0.007 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:130 Resp: 850

Ion	Ratio	Lower	Upper
130	100		
95	118.3	85.7	128.5
132	80.4	73.4	110.0
97	29.8	52.7	79.1#

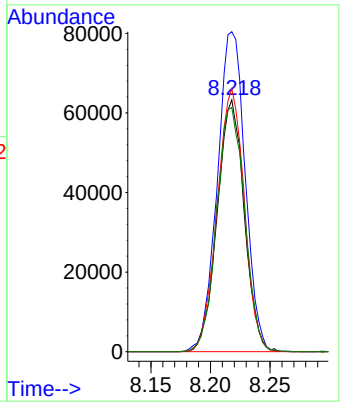




#52
Tetrachloroethene
Concen: 9.608 ppbv
RT: 8.218 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:164 Resp: 9951

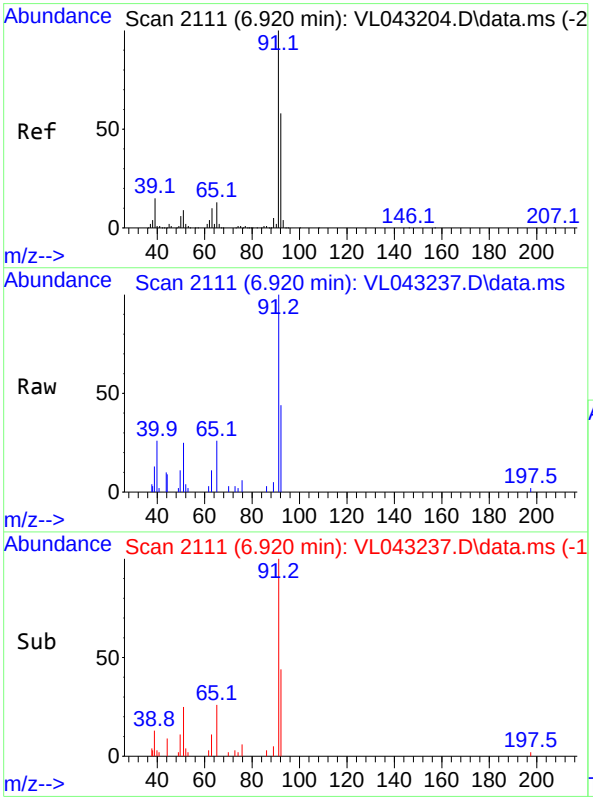
Ion	Ratio	Lower	Upper
164	100		
166	127.1	99.4	149.2
129	104.5	81.8	122.8
131	97.0	77.4	116.2



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Manual Integrations
APPROVED

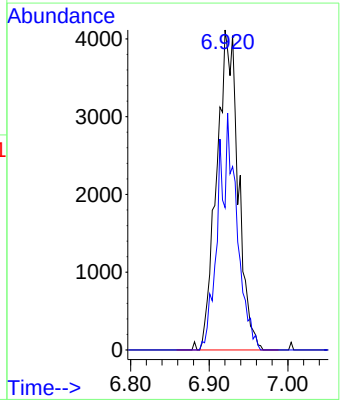
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

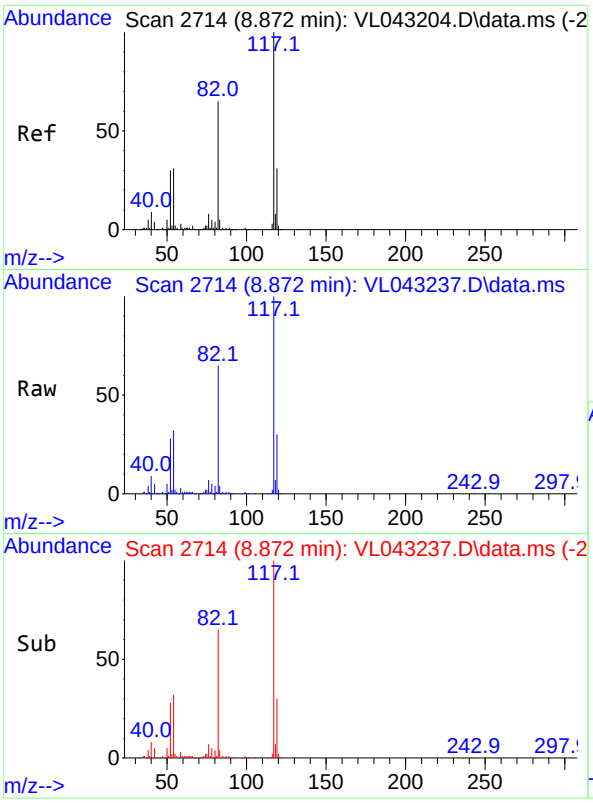


#53
Toluene
Concen: 0.238 ppbv m
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 91 Resp: 7855

Ion	Ratio	Lower	Upper
91	100		
92	63.6	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: VL043237.D
Acq: 19 Nov 2025 13:50

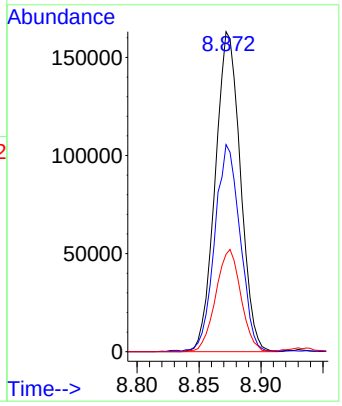
Tgt Ion:117 Resp: 23114

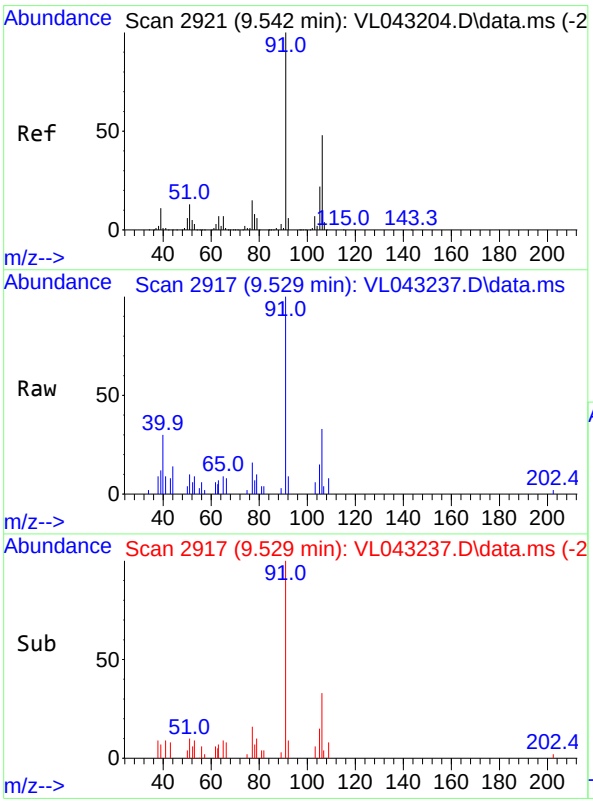
Ion	Ratio	Lower	Upper
117	100		
82	65.5	56.1	84.1
119	32.0	25.0	37.6

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

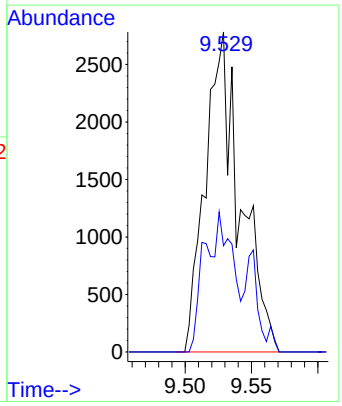


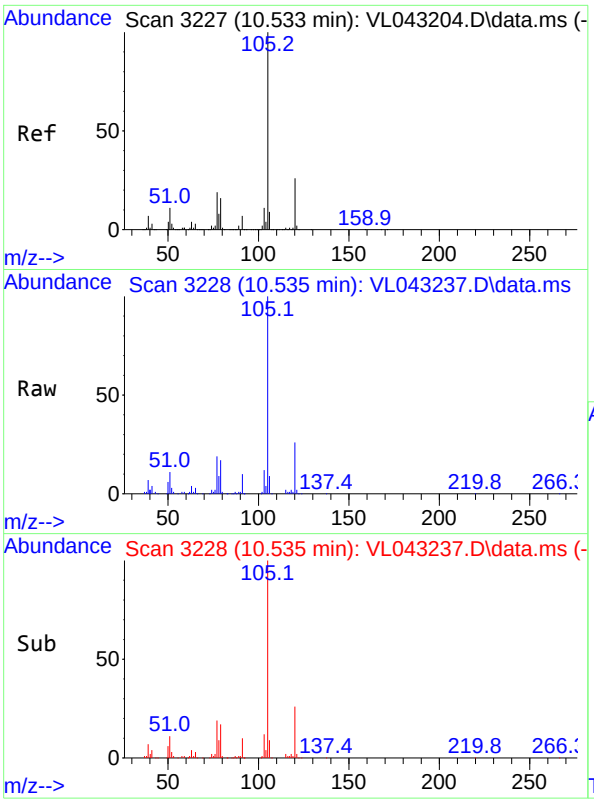


#59
m/p-Xylene
Concen: 0.142 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.013 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 91 Resp: 5081

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

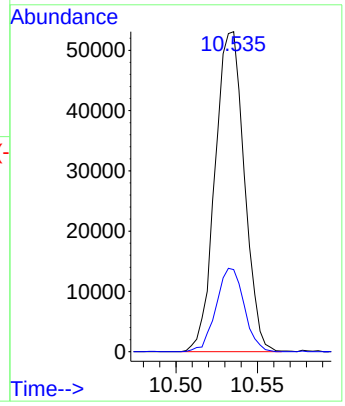




#62
Isopropylbenzene
Concen: 1.039 ppbv
RT: 10.535 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:105 Resp: 6623

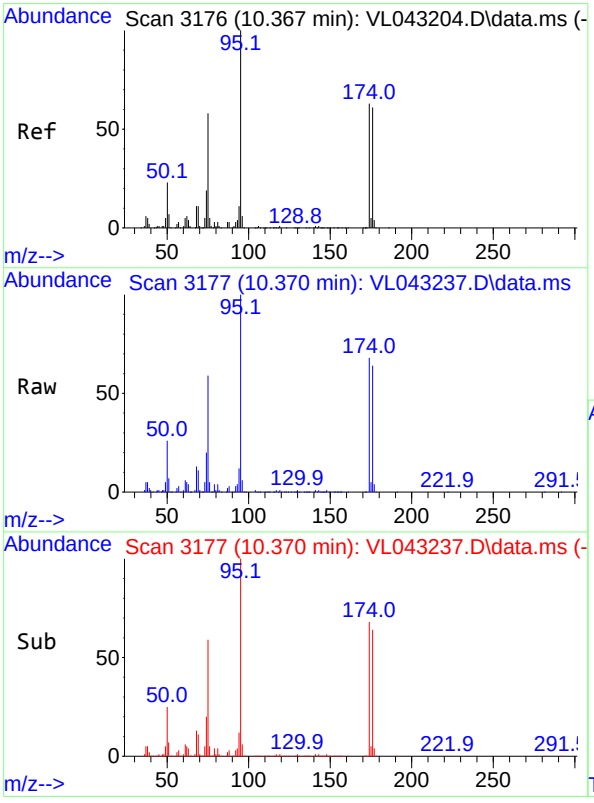
Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Manual Integrations
APPROVED

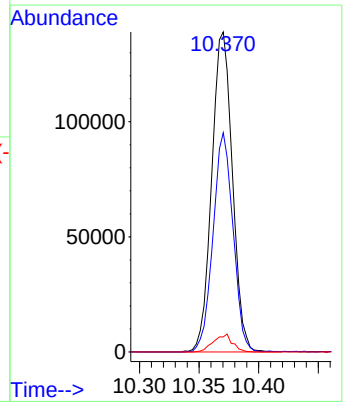
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.874 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 95 Resp: 167299

Ion	Ratio	Lower	Upper
95	100		
174	66.4	50.2	75.2
175	5.1	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:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	9B-SG-2	SDG No.:	Q3626
Lab Sample ID:	Q3626-04	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	0.53	2.62	J	2	1.09	4.94	11/19/25 14:25	VL111925
74-87-3	Chloromethane	14.8	30.6		2	0.41	2.07	11/19/25 14:25	VL111925
75-01-4	Vinyl Chloride	0.52	1.33		2	0.13	0.15	11/19/25 14:25	VL111925
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/19/25 14:25	VL111925
75-00-3	Chloroethane	2.00	5.28		2	0.79	2.64	11/19/25 14:25	VL111925
109-99-9	Tetrahydrofuran	0.16	0.47	U	2	0.47	2.95	11/19/25 14:25	VL111925
75-69-4	Trichlorofluoromethane	0.34	1.91	U	2	1.91	5.62	11/19/25 14:25	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/19/25 14:25	VL111925
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/19/25 14:25	VL111925
75-65-0	tert-Butyl alcohol	0.41	1.24	J	2	0.97	3.03	11/19/25 14:25	VL111925
142-82-5	Heptane	0.43	1.76	J	2	1.39	4.10	11/19/25 14:25	VL111925
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/19/25 14:25	VL111925
67-64-1	Acetone	42.0	99.8	E	2	0.86	2.38	11/19/25 14:25	VL111925
75-15-0	Carbon Disulfide	1.30	4.05		2	0.50	3.11	11/19/25 14:25	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/19/25 14:25	VL111925
75-09-2	Methylene Chloride	0.80	2.78	J	2	1.60	3.47	11/19/25 14:25	VL111925
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/19/25 14:25	VL111925
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/19/25 14:25	VL111925
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/19/25 14:25	VL111925
78-93-3	2-Butanone	2.10	6.19		2	0.32	2.95	11/19/25 14:25	VL111925
56-23-5	Carbon Tetrachloride	0.070	0.44		2	0.31	0.38	11/19/25 14:25	VL111925
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/19/25 14:25	VL111925
67-66-3	Chloroform	0.19	0.93	U	2	0.93	4.88	11/19/25 14:25	VL111925
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	2	0.16	0.33	11/19/25 14:25	VL111925
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/19/25 14:25	VL111925
71-43-2	Benzene	10.5	33.5		2	0.51	3.19	11/19/25 14:25	VL111925
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/19/25 14:25	VL111925
79-01-6	Trichloroethene	0.050	0.27	U	2	0.27	0.32	11/19/25 14:25	VL111925
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/19/25 14:25	VL111925
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/19/25 14:25	VL111925
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	U	2	0.78	4.10	11/19/25 14:25	VL111925
108-88-3	Toluene	1.10	4.15		2	1.21	3.77	11/19/25 14:25	VL111925
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/19/25 14:25	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/19/25 14:25	VL111925
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/19/25 14:25	VL111925
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/19/25 14:25	VL111925
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/19/25 14:25	VL111925
127-18-4	Tetrachloroethene	0.12	0.81		2	0.20	0.41	11/19/25 14:25	VL111925
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/19/25 14:25	VL111925
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/19/25 14:25	VL111925
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/19/25 14:25	VL111925
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/19/25 14:25	VL111925
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/19/25 14:25	VL111925
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/19/25 14:25	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/19/25 14:25	VL111925
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/19/25 14:25	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	9B-SG-2	SDG No.:	Q3626
Lab Sample ID:	Q3626-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 14:25	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 14:25	VL111925
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/19/25 14:25	VL111925
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 14:25	VL111925
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 14:25	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/19/25 14:25	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/19/25 14:25	VL111925
106-99-0	1,3-Butadiene	5.60	12.4		2	0.22	2.21	11/19/25 14:25	VL111925
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/19/25 14:25	VL111925
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/19/25 14:25	VL111925
110-54-3	Hexane	1.30	4.58		2	1.13	3.52	11/19/25 14:25	VL111925
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/19/25 14:25	VL111925
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/19/25 14:25	VL111925
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/19/25 14:25	VL111925
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.0				70 (65) - 130 (135)	100% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	104000							
540-36-3	1,4-Difluorobenzene	291000							
3114-55-4	Chlorobenzene-d5	224000							

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\VL111925\
Data File : VL043238.D
Acq On : 19 Nov 2025 14:25
Operator : SY/MD
Sample : Q3626-04 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:05:15 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-SG-2

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	103574	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	291331	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	223974	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	163862	9.981	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3872	0.265	ppbv		93
3) Chlorodifluoromethane	1.476	51	1559m	0.109	ppbv		
4) Chloromethane	1.534	50	40516	7.418	ppbv		99
5) Vinyl Chloride	1.580	62	1563	0.262	ppbv	#	88
7) Chloroethane	1.706	64	2300	0.989	ppbv	#	79
9) Propene	1.482	41	12538	2.055	ppbv	#	1
10) Heptane	4.962	43	3864m	0.213	ppbv		
11) Trichlorofluoromethane	1.877	101	2019	0.143	ppbv		94
13) Ethanol	1.719	45	68935	32.134	ppbv		98
15) Acetone	1.832	43	301895	20.980	ppbv		100
16) 1,3-Butadiene	1.602	39	17830	2.779	ppbv	#	57
17) tert-Butyl alcohol	2.039	59	3849m	0.204	ppbv		
19) Isopropyl Alcohol	1.884	45	51890	6.381	ppbv	#	1
20) Methylene Chloride	2.062	84	4882	0.398	ppbv	#	80
26) Hexane	2.822	57	9063	0.666	ppbv	#	40
27) Carbon Disulfide	2.149	76	9305	0.670	ppbv	#	48
34) 2-Butanone	2.554	43	22054	1.072	ppbv		99
35) Carbon Tetrachloride	3.761	117	781m	0.035	ppbv		
36) Benzene	3.654	78	146126	5.237	ppbv		97
52) Tetrachloroethene	8.218	164	624m	0.060	ppbv		
53) Toluene	6.927	91	17894m	0.542	ppbv		
59) m/p-Xylene	9.526	91	9438m	0.273	ppbv		
60) o-Xylene	9.956	91	3821	0.111	ppbv		93
74) 1,2,4-Trimethylbenzene	11.532	105	4967	0.129	ppbv	#	53

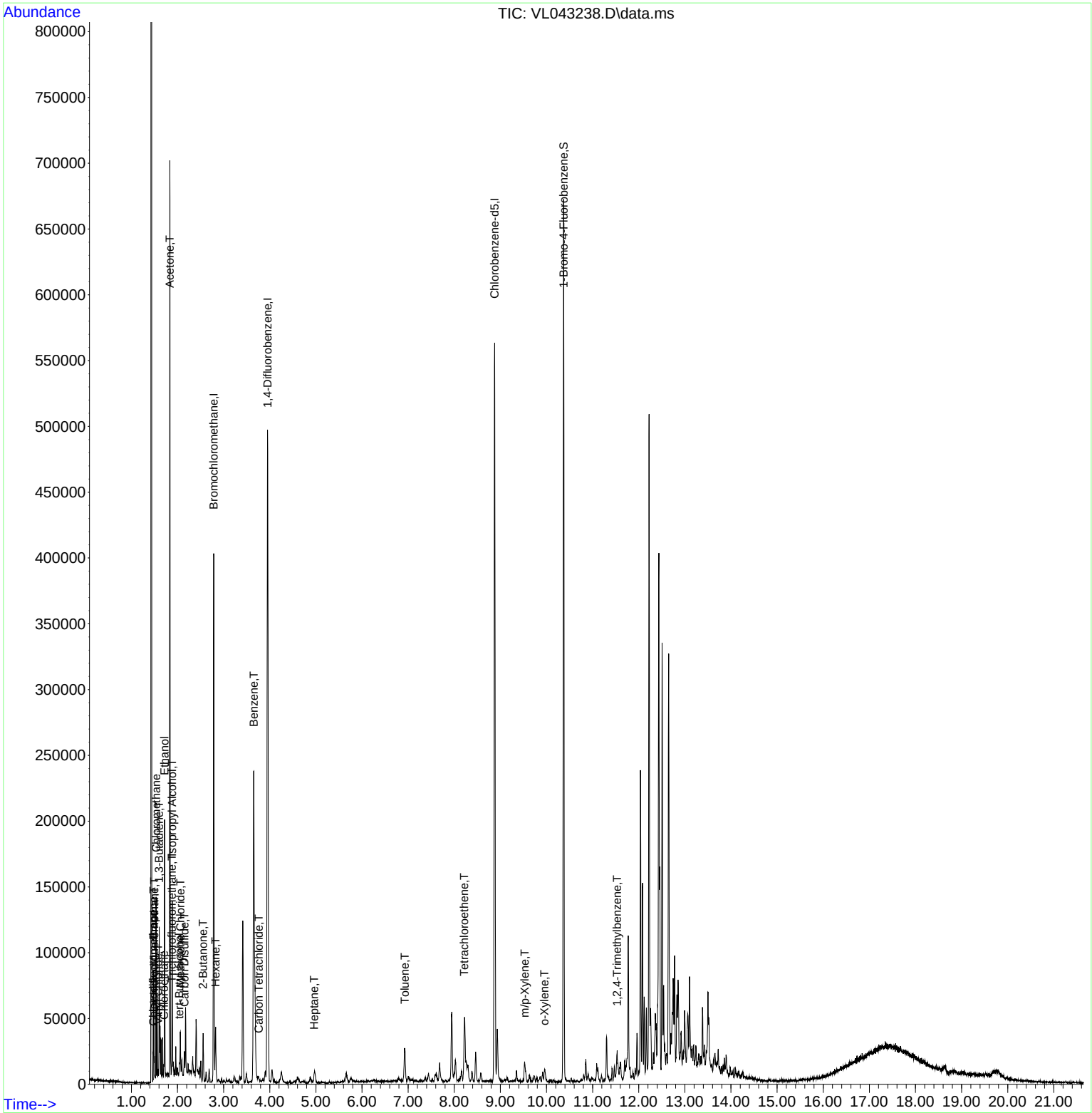
(#) = qualifier out of range (m) = manual integration (+) = signals summed

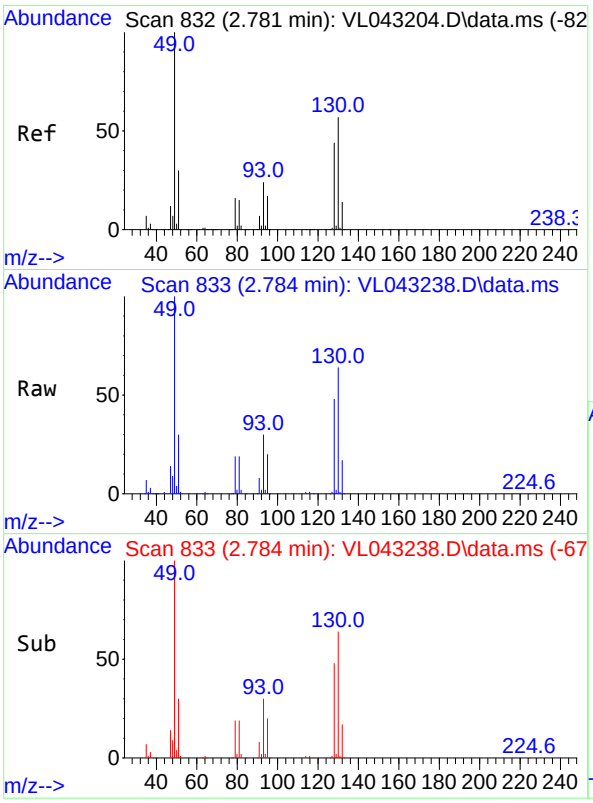
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043238.D
Acq On : 19 Nov 2025 14:25
Operator : SY/MD
Sample : Q3626-04 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:05:15 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-SG-2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

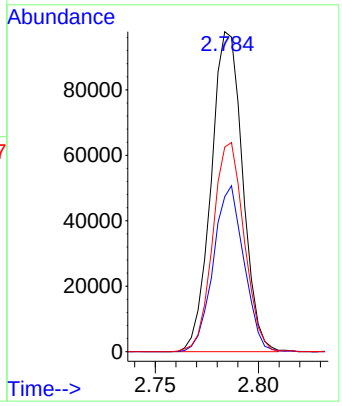




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 49 Resp: 10357

Ion	Ratio	Lower	Upper
49	100		
128	50.4	23.0	69.0
130	65.0	29.9	89.7



Instrument :
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ClientSampleId :
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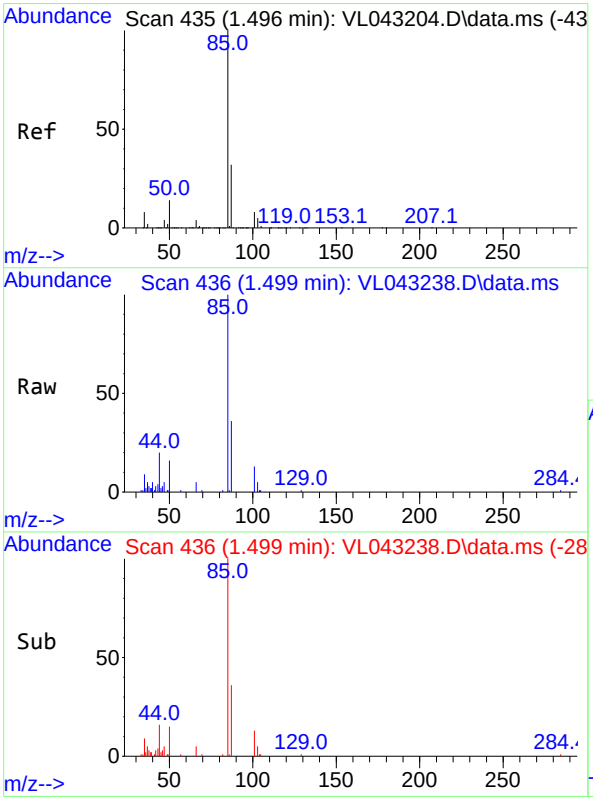
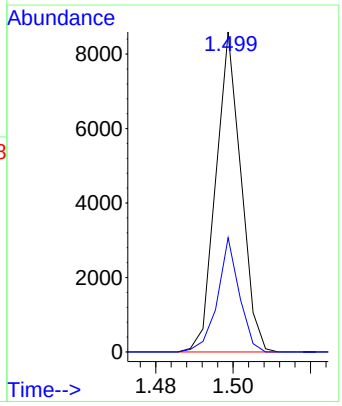
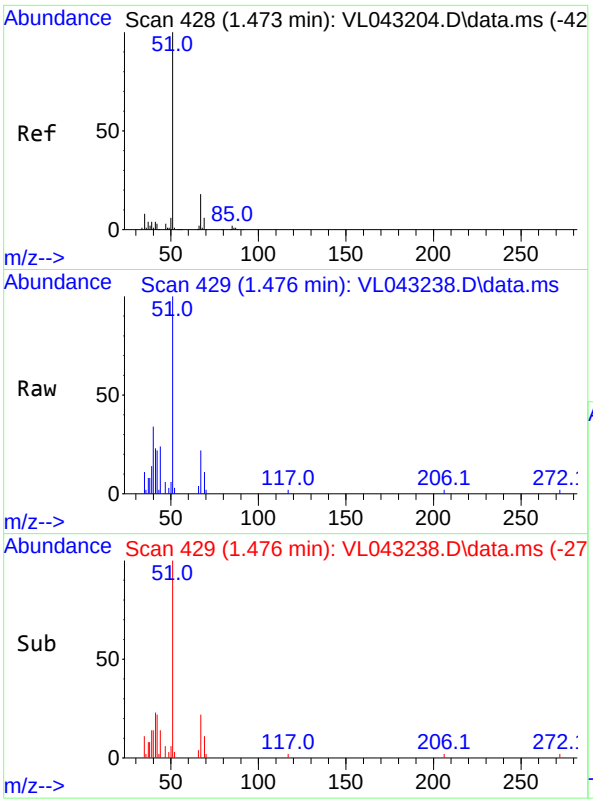


#2
Dichlorodifluoromethane
Concen: 0.265 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 85 Resp: 3872

Ion	Ratio	Lower	Upper
85	100		
87	35.7	25.4	38.2

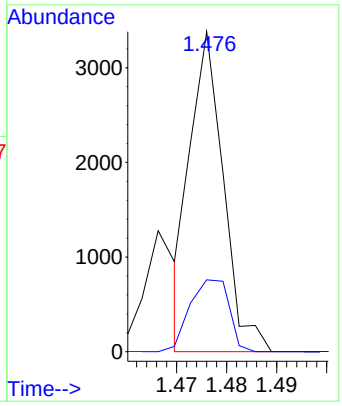




#3
Chlorodifluoromethane
Concen: 0.109 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 51 Resp: 155

Ion	Ratio	Lower	Upper
51	100		
67	26.6	14.9	22.3#



Instrument :
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ClientSampleId :
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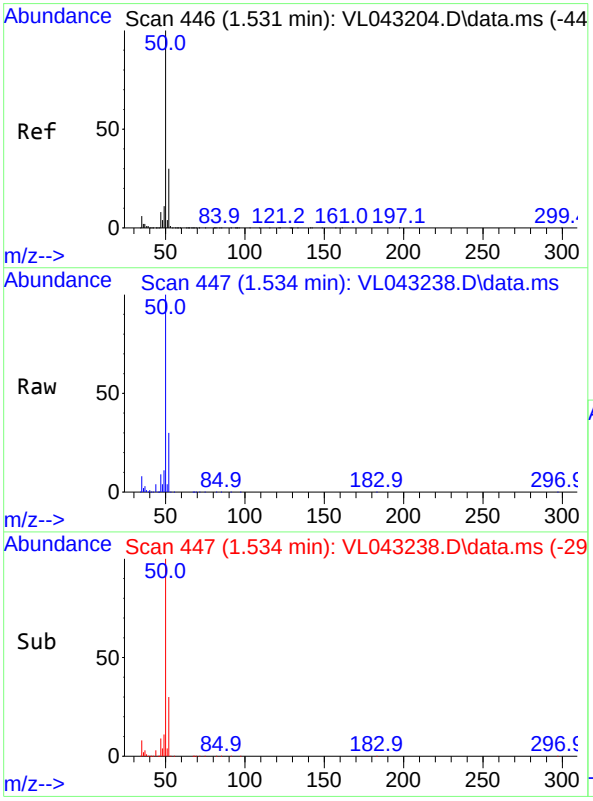
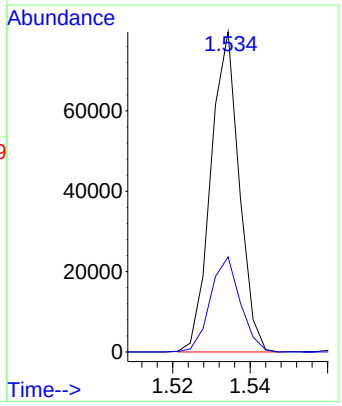
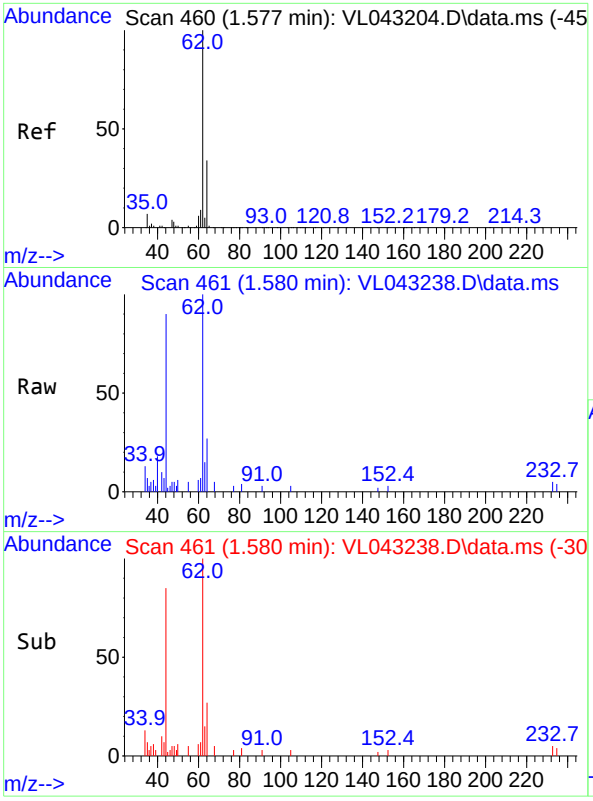


#4
Chloromethane
Concen: 7.418 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 50 Resp: 40516

Ion	Ratio	Lower	Upper
50	100		
52	29.7	24.1	36.1

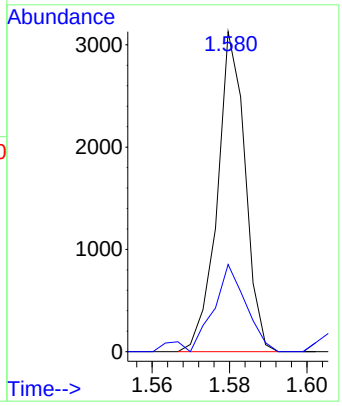




#5
Vinyl Chloride
Concen: 0.262 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 62 Resp: 156

Ion	Ratio	Lower	Upper
62	100		
64	27.3	27.3	40.9#



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

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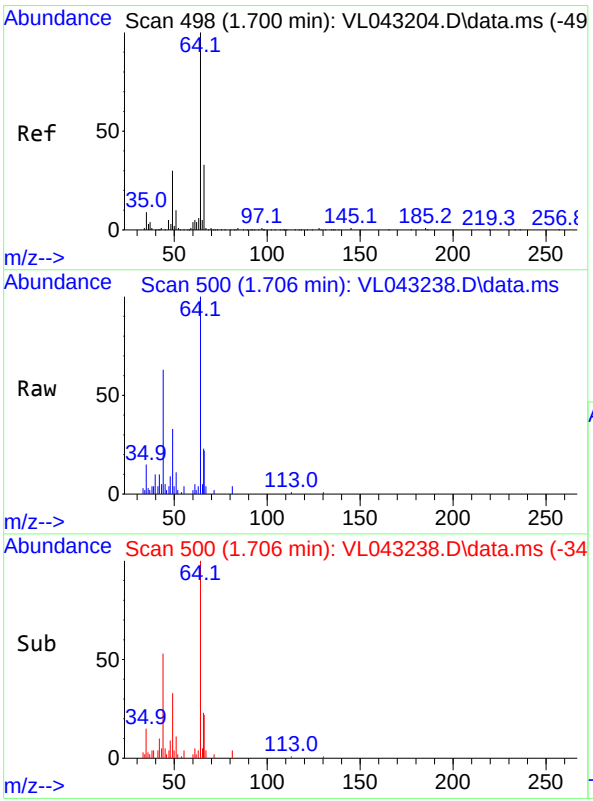
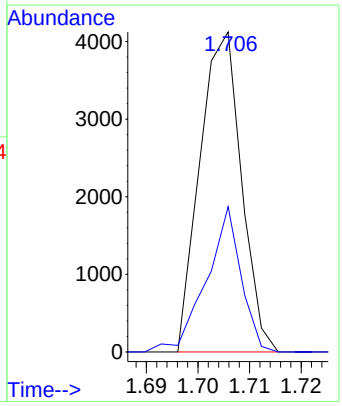
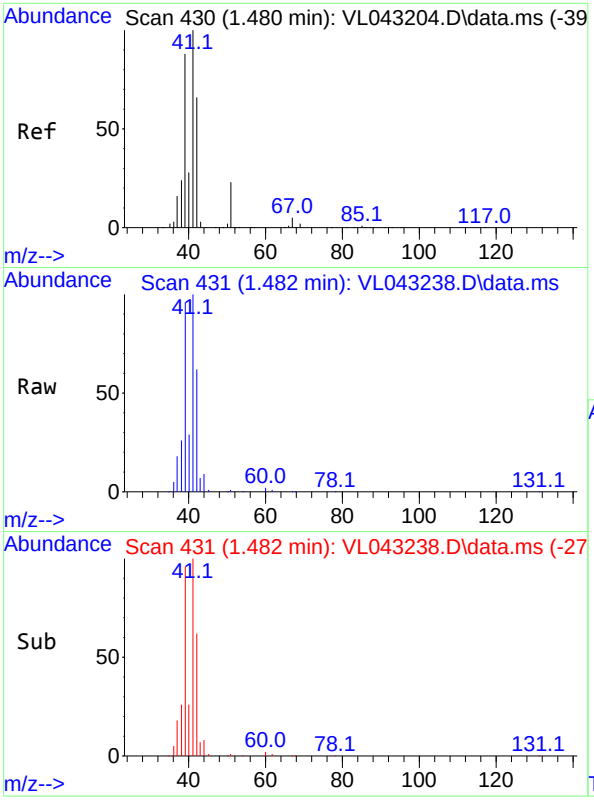


#7
Chloroethane
Concen: 0.989 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 64 Resp: 2300

Ion	Ratio	Lower	Upper
64	100		
66	45.4	26.8	40.2#

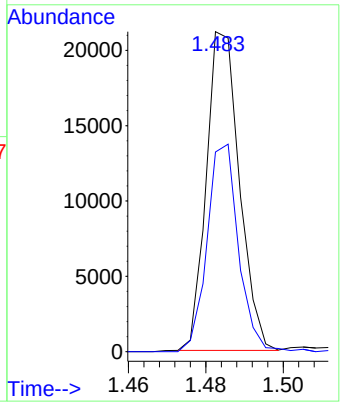




#9
Propene
Concen: 2.055 ppbv
RT: 1.482 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 41 Resp: 1253

Ion	Ratio	Lower	Upper
41	100		
42	62.4	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

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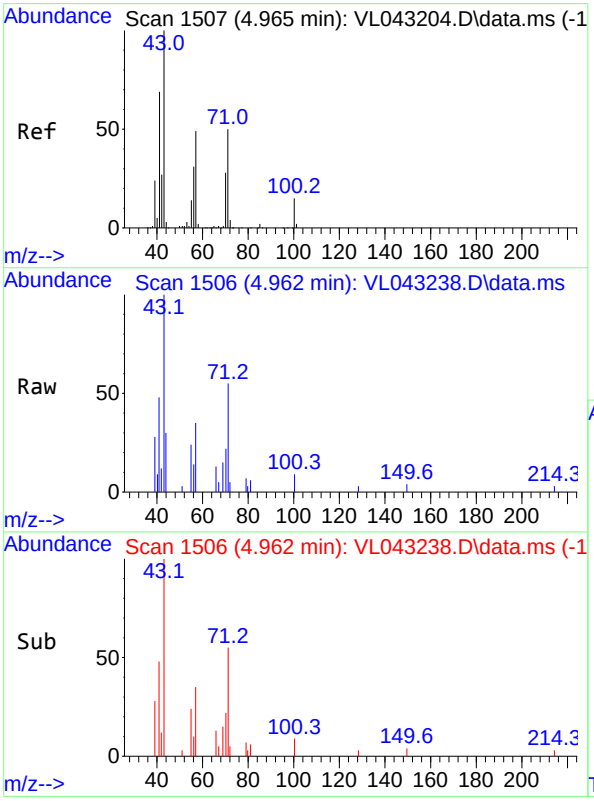
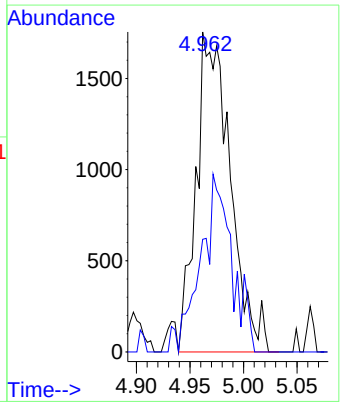
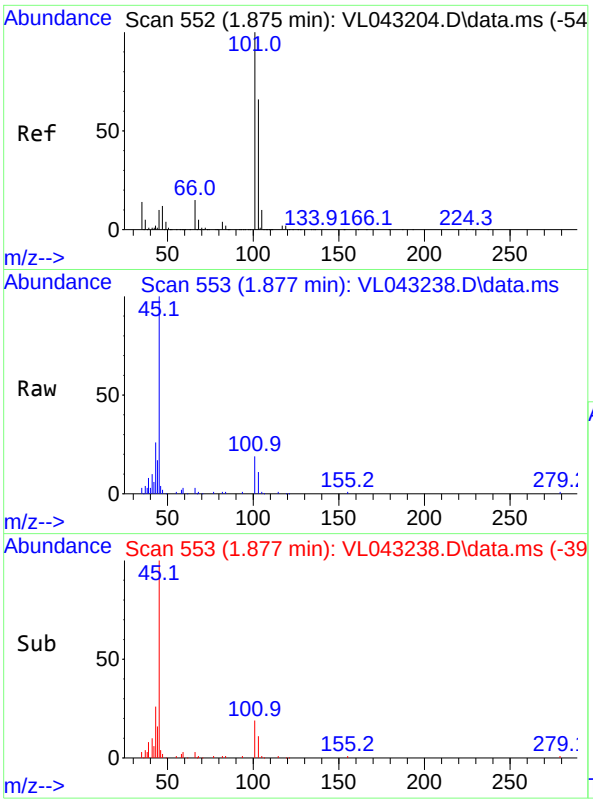


#10
Heptane
Concen: 0.213 ppbv m
RT: 4.962 min Scan# 1506
Delta R.T. -0.004 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 43 Resp: 3864

Ion	Ratio	Lower	Upper
43	100		
57	51.4	39.7	59.5

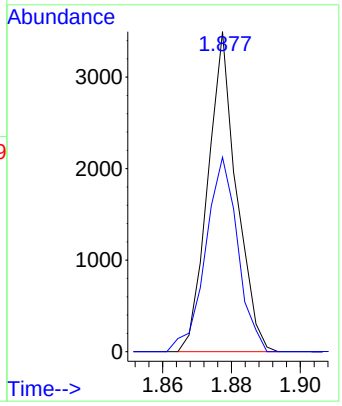




#11
Trichlorofluoromethane
Concen: 0.143 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion:101 Resp: 201

Ion	Ratio	Lower	Upper
101	100		
103	60.7	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

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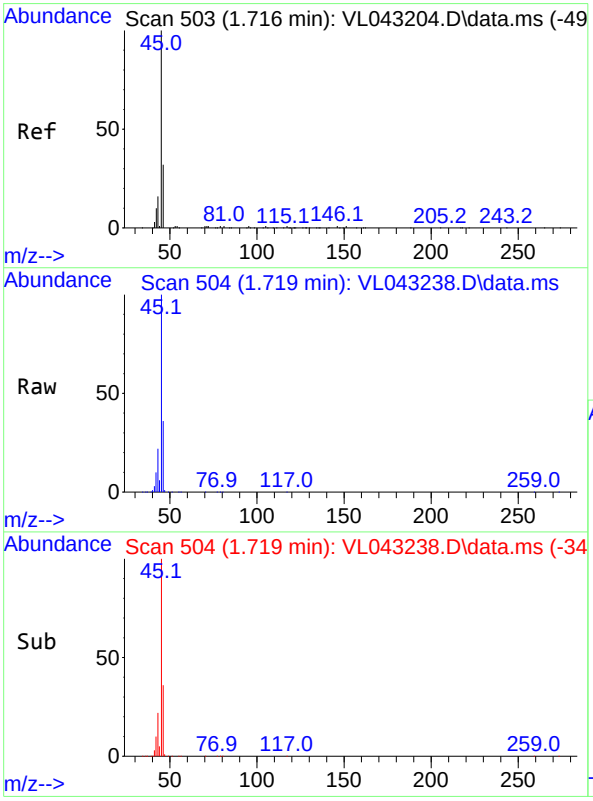
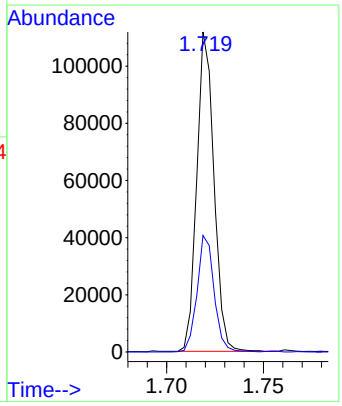
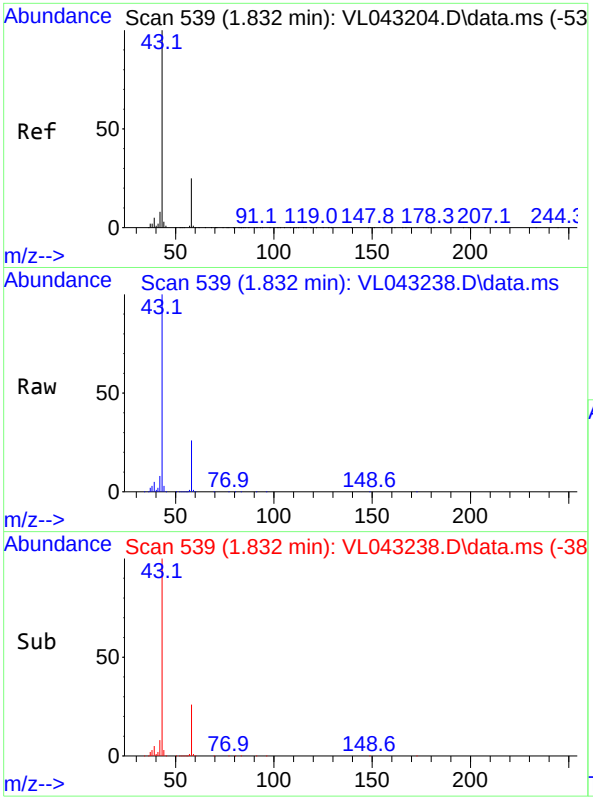


#13
Ethanol
Concen: 32.134 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 45 Resp: 68935

Ion	Ratio	Lower	Upper
45	100		
46	36.5	15.0	59.8

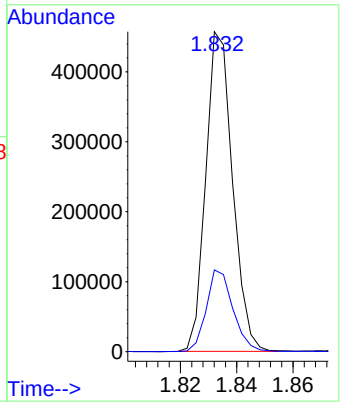




#15
Acetone
Concen: 20.980 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 43 Resp: 30189

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1



Instrument :
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ClientSampleId :
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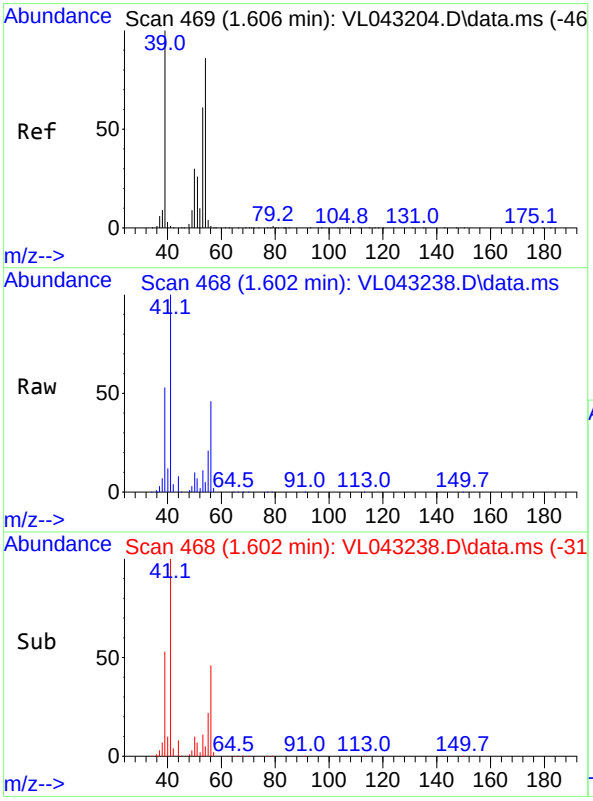
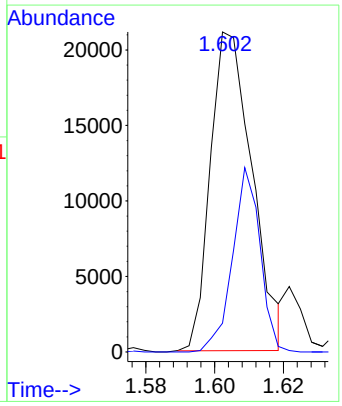
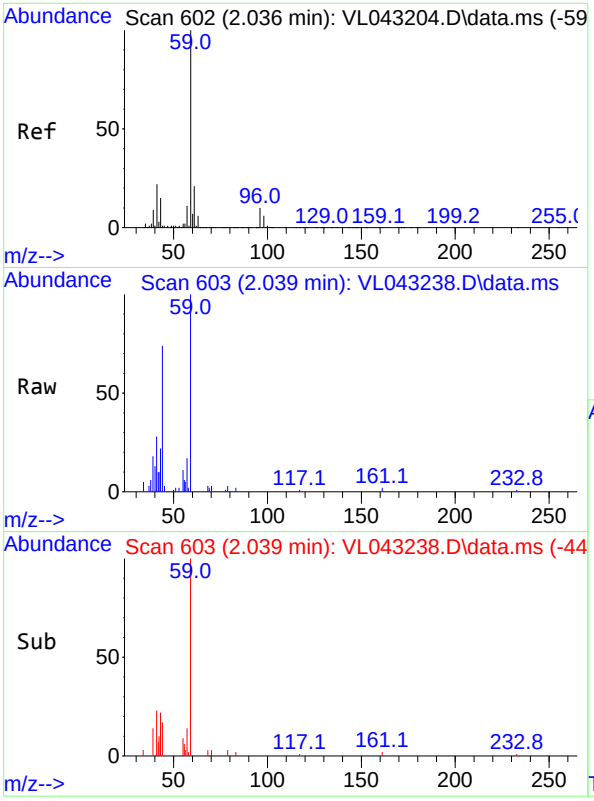


#16
1,3-Butadiene
Concen: 2.779 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.004 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 39 Resp: 17830

Ion	Ratio	Lower	Upper
39	100		
54	38.0	59.4	89.2#





#17
tert-Butyl alcohol
Concen: 0.204 ppbv m
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 59 Resp: 384

Ion	Ratio	Lower	Upper
59	100		
57	6.6	9.0	13.4#

Instrument :
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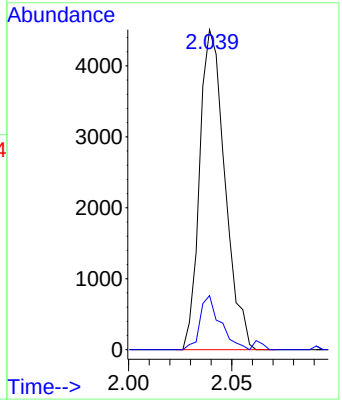
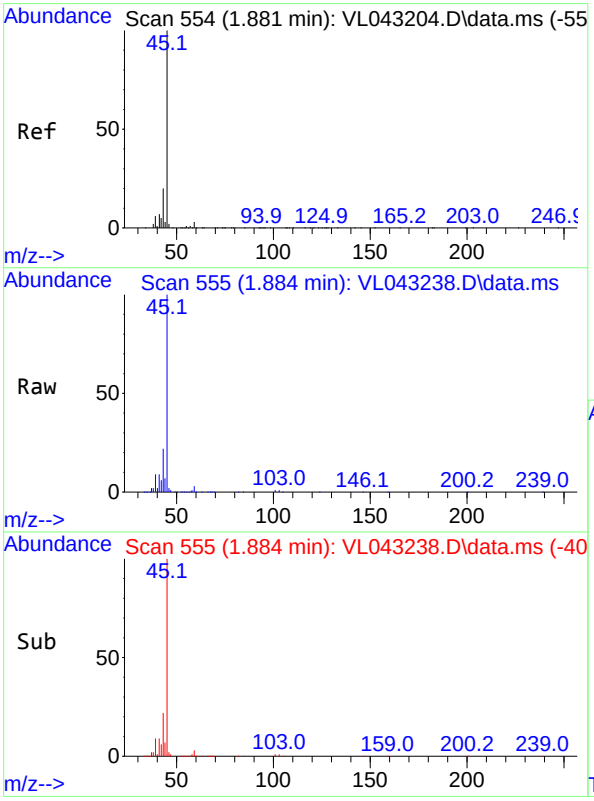
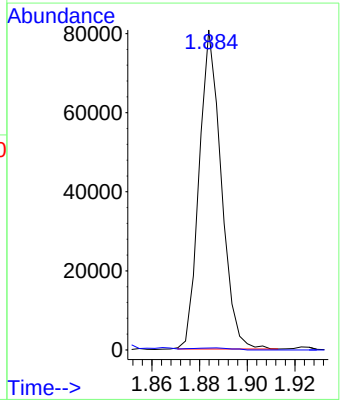


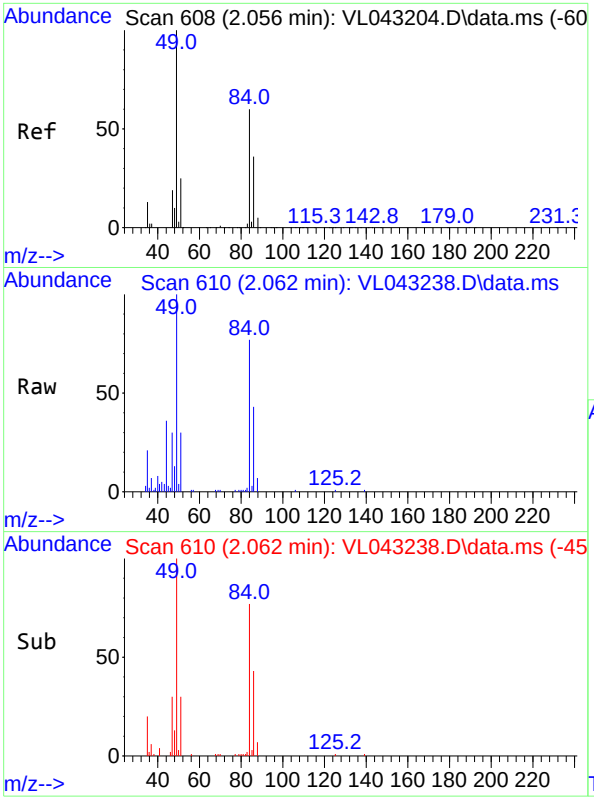


#19
Isopropyl Alcohol
Concen: 6.381 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 45 Resp: 51890

Ion	Ratio	Lower	Upper
45	100		
58	150.5	31.3	46.9#

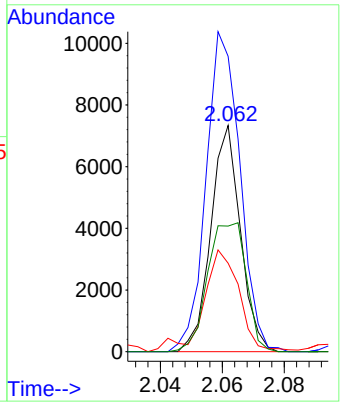




#20
Methylene Chloride
Concen: 0.398 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 84 Resp: 488

Ion	Ratio	Lower	Upper
84	100		
49	128.7	132.9	199.3#
51	37.8	34.8	52.2
86	55.5	48.2	72.2



Instrument :
MSVOA_L
ClientSampleId :
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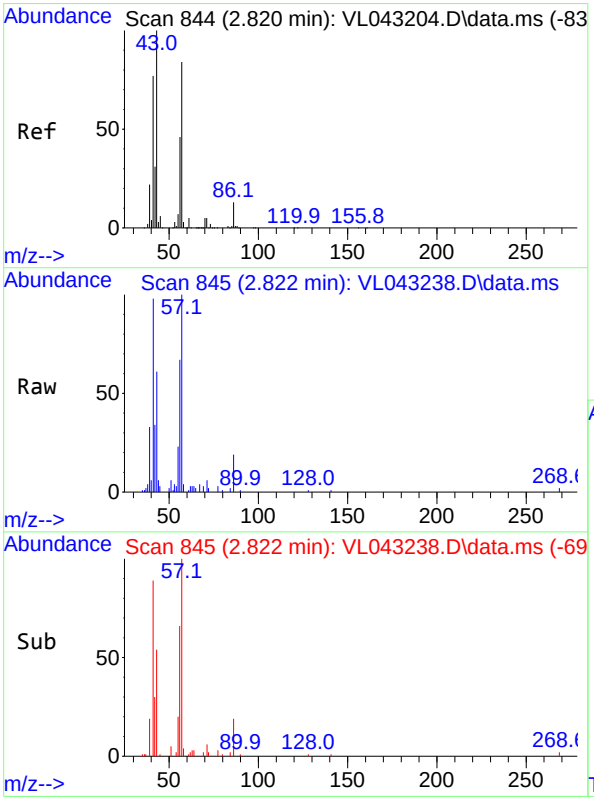
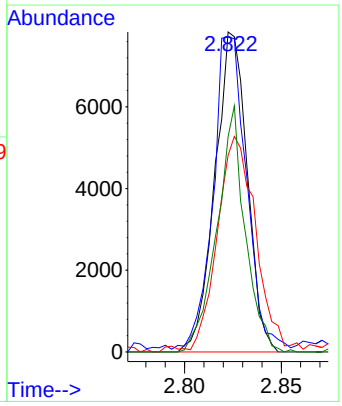
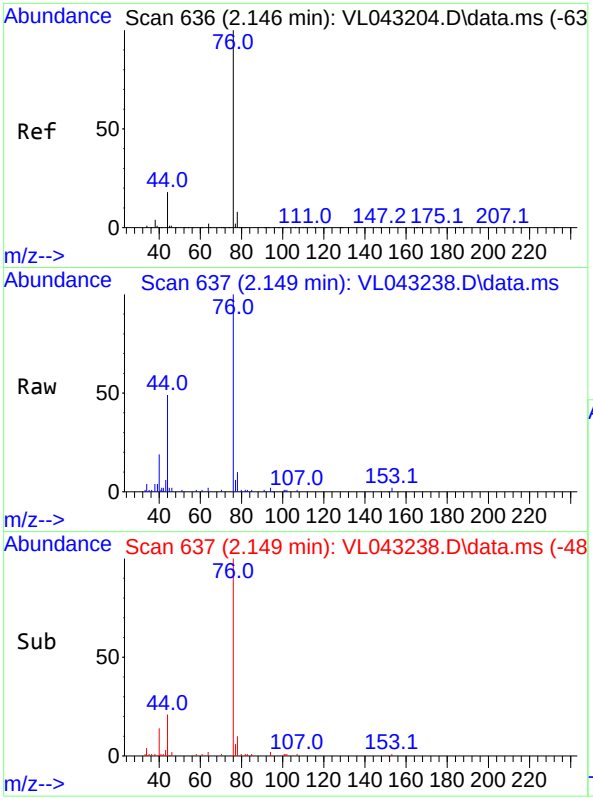


#26
Hexane
Concen: 0.666 ppbv
RT: 2.822 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 57 Resp: 9063

Ion	Ratio	Lower	Upper
57	100		
41	111.0	74.6	111.8
43	81.6	179.0	268.4#
56	67.5	42.3	63.5#

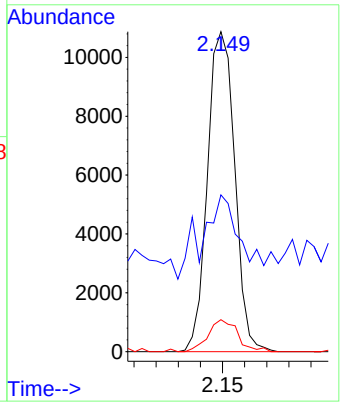




#27
Carbon Disulfide
Concen: 0.670 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 76 Resp: 930

Ion	Ratio	Lower	Upper
76	100		
44	57.4	16.1	24.1#
78	10.8	9.6	14.4



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

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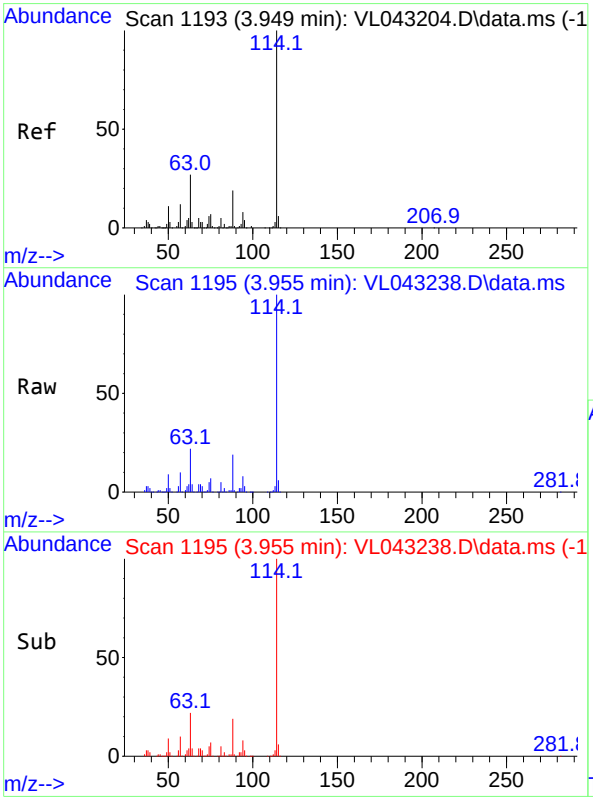
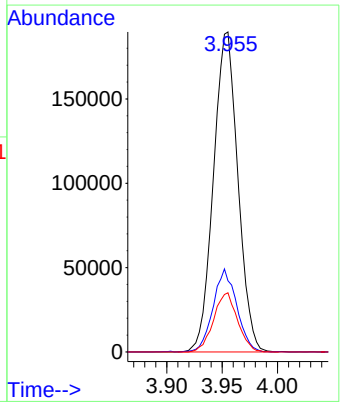
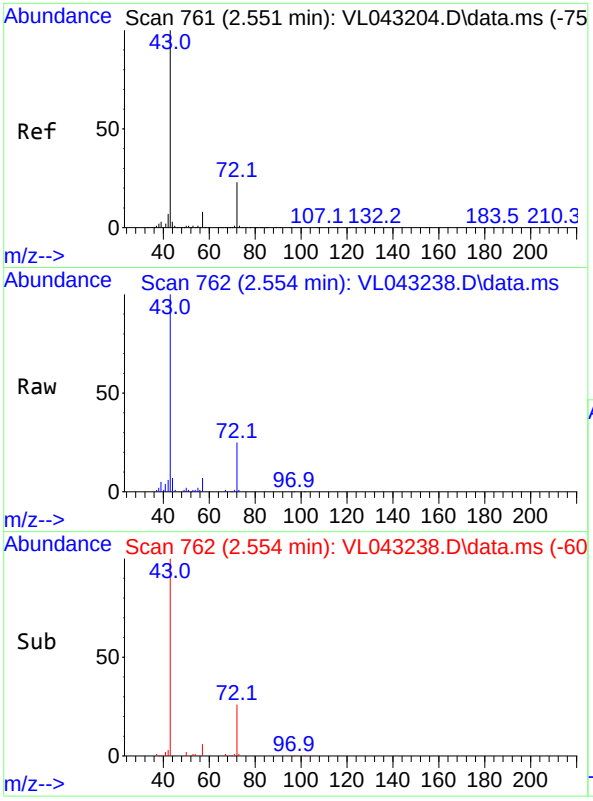


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion:114 Resp: 291331

Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.0	31.6
88	18.2	14.9	22.3

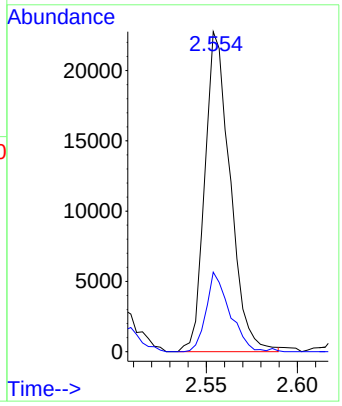




#34
2-Butanone
Concen: 1.072 ppbv
RT: 2.554 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 43 Resp: 2205

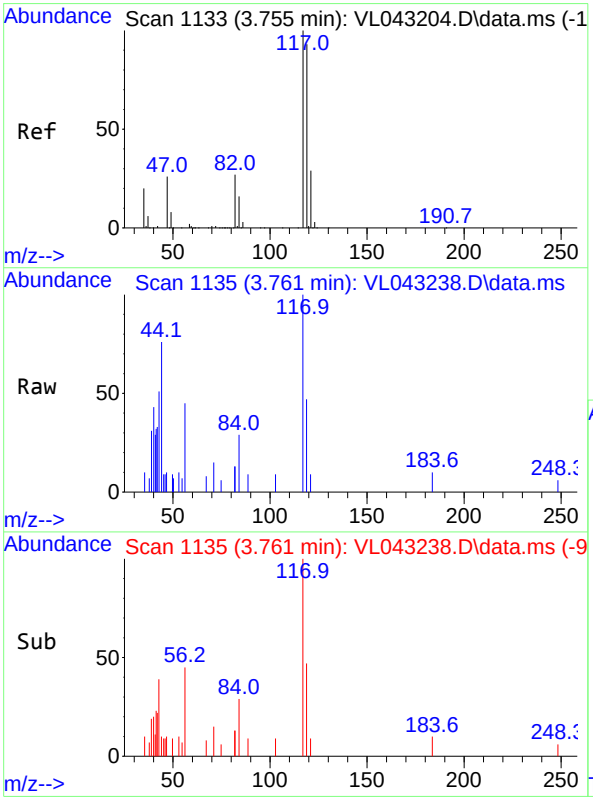
Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.1	27.1



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Manual Integrations
APPROVED

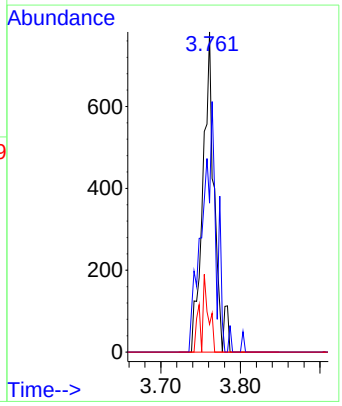
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

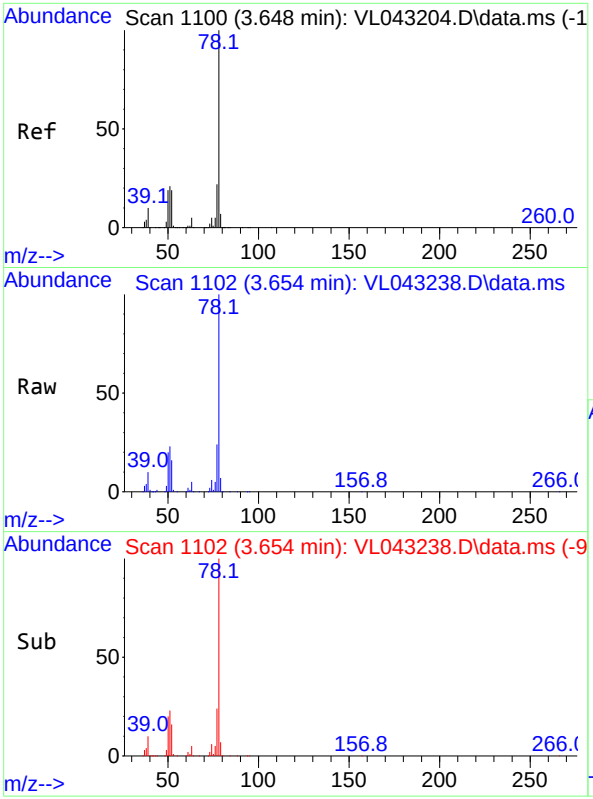


#35
Carbon Tetrachloride
Concen: 0.035 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion:117 Resp: 781

Ion	Ratio	Lower	Upper
117	100		
119	46.5	74.6	112.0#
121	8.7	23.2	34.8#

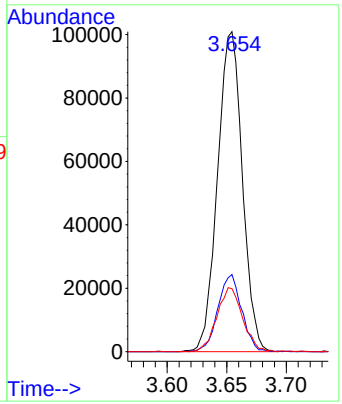




#36
Benzene
Concen: 5.237 ppbv
RT: 3.654 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 78 Resp: 14612

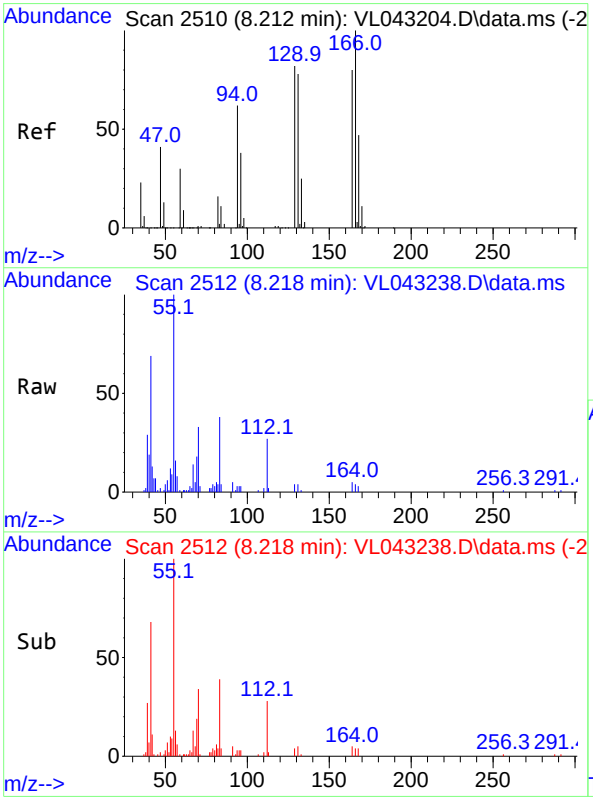
Ion	Ratio	Lower	Upper
78	100		
77	24.1	17.5	26.3
50	19.7	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Manual Integrations
APPROVED

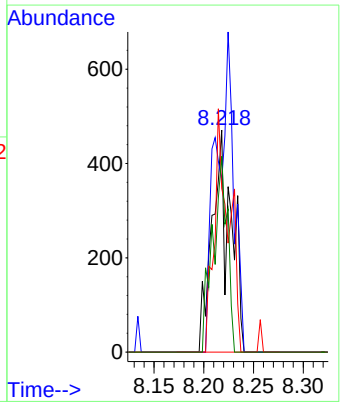
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

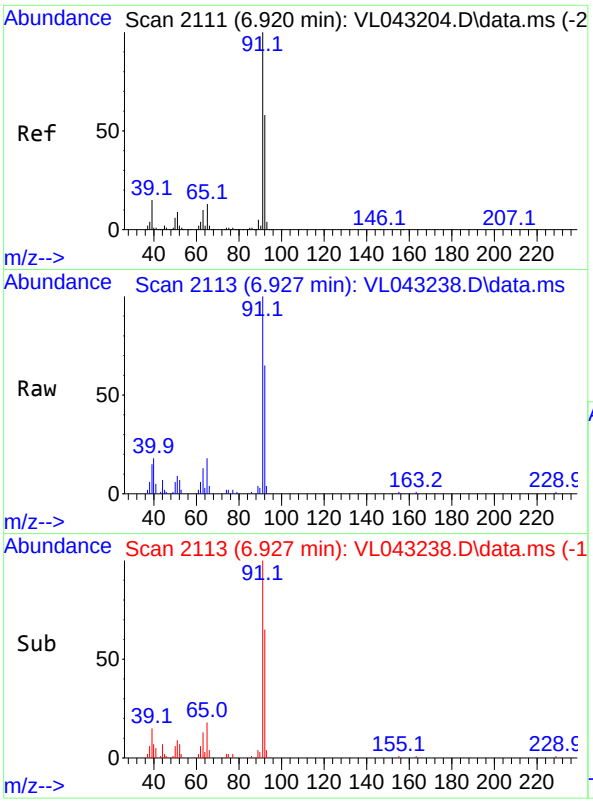


#52
Tetrachloroethene
Concen: 0.060 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion:164 Resp: 624

Ion	Ratio	Lower	Upper
164	100		
166	77.5	99.4	149.2#
129	73.7	81.8	122.8#
131	88.1	77.4	116.2

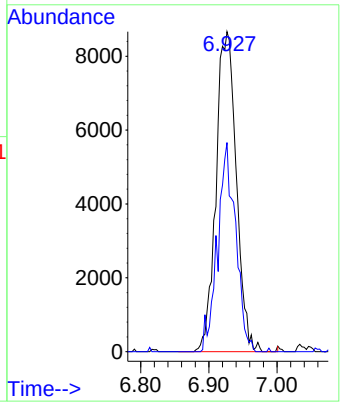




#53
Toluene
Concen: 0.542 ppbv m
RT: 6.927 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 91 Resp: 1789

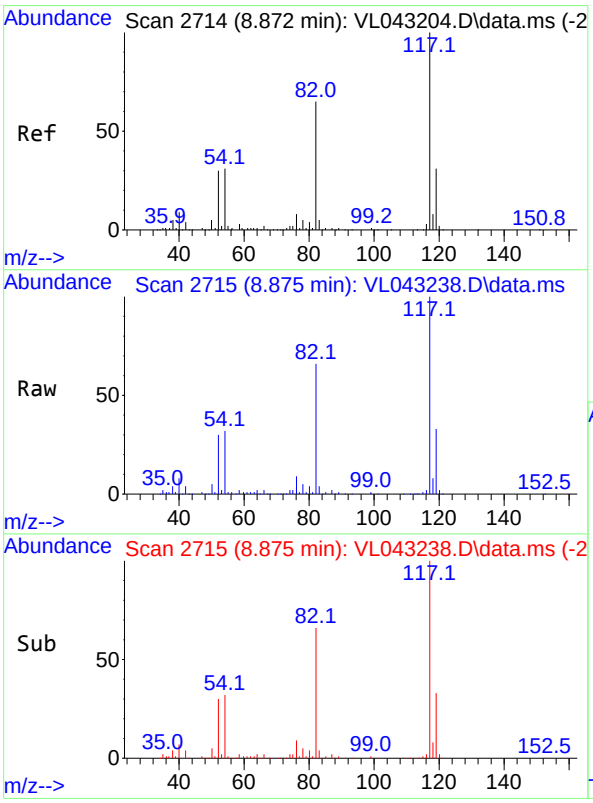
Ion	Ratio	Lower	Upper
91	100		
92	57.9	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Manual Integrations
APPROVED

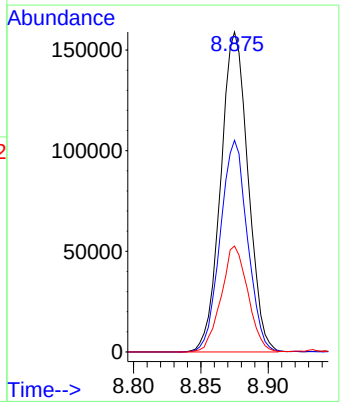
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

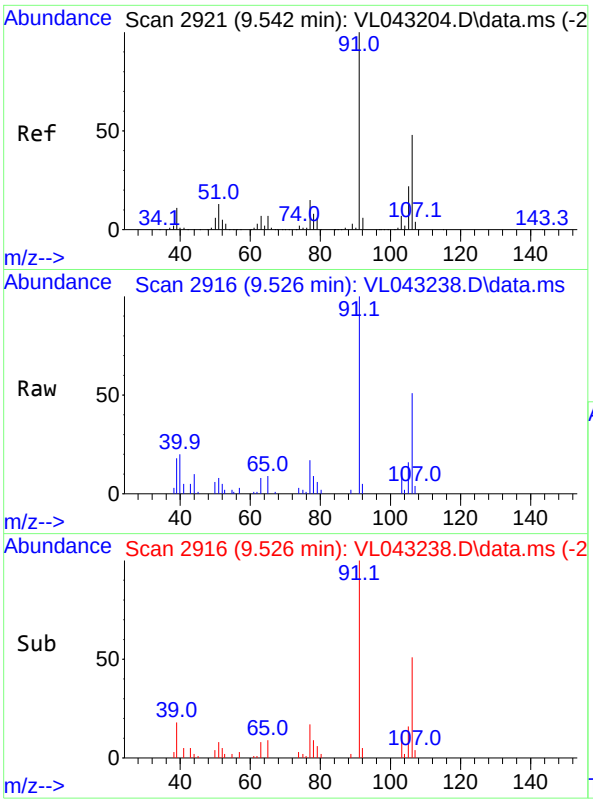


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion:117 Resp: 223974

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





#59
m/p-Xylene
Concen: 0.273 ppbv m
RT: 9.526 min Scan# 2
Delta R.T. -0.017 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

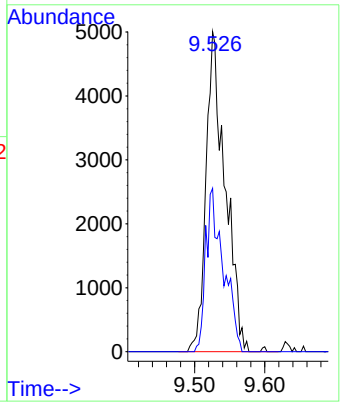
Tgt Ion: 91 Resp: 943

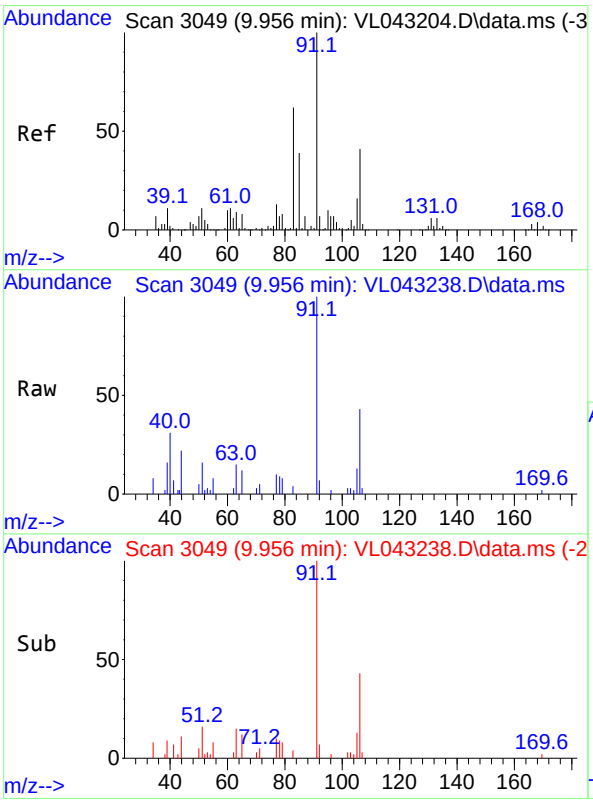
Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

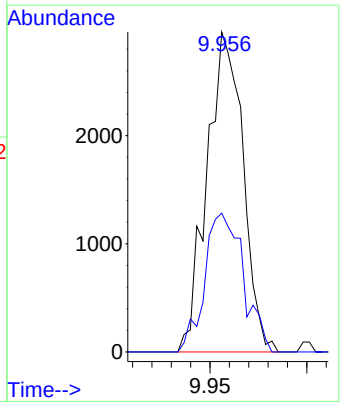


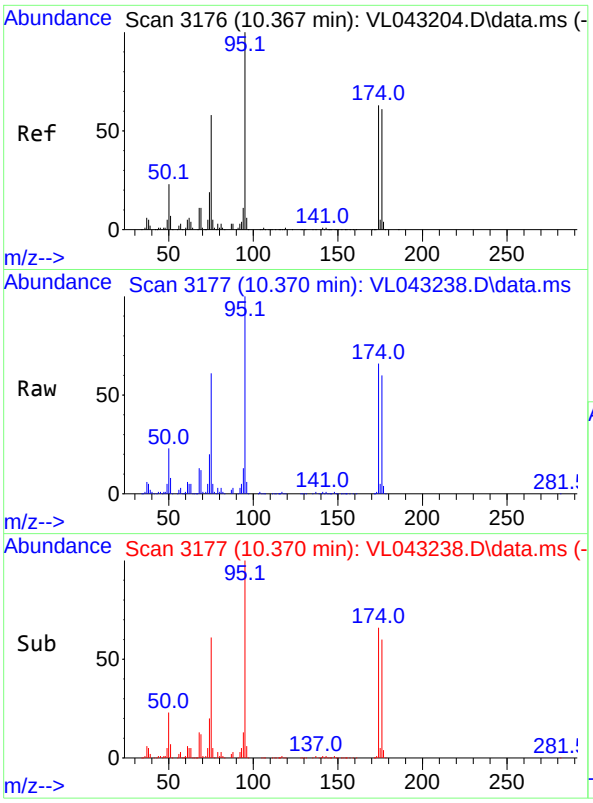


#60
o-Xylene
Concen: 0.111 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 91 Resp: 3821

Ion	Ratio	Lower	Upper
91	100		
106	46.6	20.9	62.8

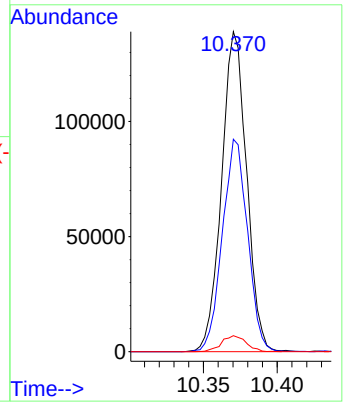




#68
1-Bromo-4-Fluorobenzene
Concen: 9.981 ppbv
RT: 10.370 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 95 Resp: 16386

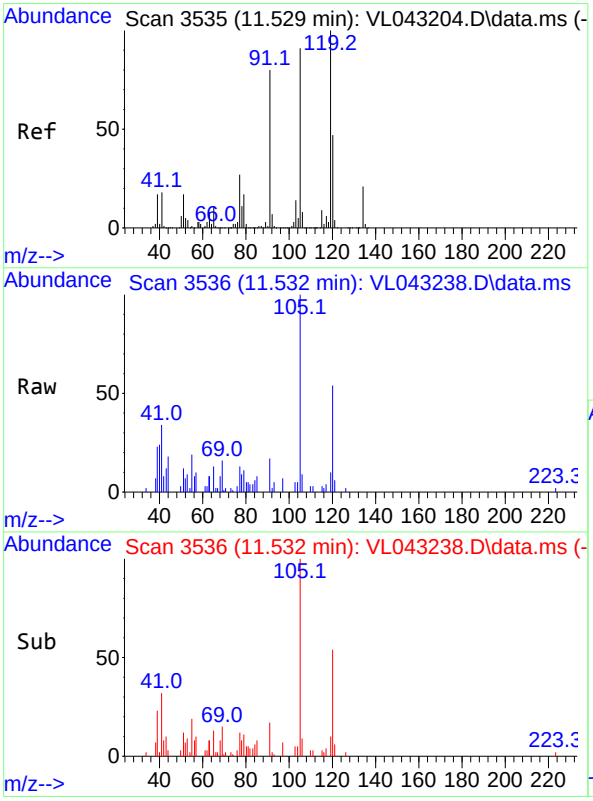
Ion	Ratio	Lower	Upper
95	100		
174	66.9	50.2	75.2
175	4.9	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Manual Integrations
APPROVED

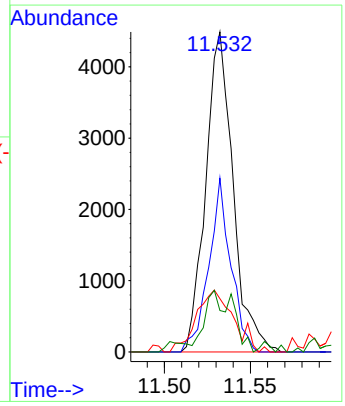
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion:105 Resp: 4967

Ion	Ratio	Lower	Upper
105	100		
120	54.3	41.7	62.5
91	16.6	70.0	105.0#
77	10.8	23.8	35.8#



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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	9B-SG-2DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-04DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.55	2.72	UD	5	2.72	12.4	11/19/25 21:33	VL111925
74-87-3	Chloromethane	14.3	29.5	D	5	1.01	5.16	11/19/25 21:33	VL111925
75-01-4	Vinyl Chloride	0.63	1.61	D	5	0.33	0.38	11/19/25 21:33	VL111925
74-83-9	Bromomethane	0.39	1.51	UD	5	1.51	9.71	11/19/25 21:33	VL111925
75-00-3	Chloroethane	2.30	6.07	JD	5	1.98	6.60	11/19/25 21:33	VL111925
109-99-9	Tetrahydrofuran	0.40	1.18	UD	5	1.18	7.37	11/19/25 21:33	VL111925
75-69-4	Trichlorofluoromethane	0.85	4.78	UD	5	4.78	14.1	11/19/25 21:33	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.70	5.37	UD	5	5.37	19.2	11/19/25 21:33	VL111925
76-14-2	Dichlorotetrafluoroethane	0.75	5.24	UD	5	5.24	17.5	11/19/25 21:33	VL111925
75-65-0	tert-Butyl alcohol	0.80	2.43	UD	5	2.43	7.58	11/19/25 21:33	VL111925
142-82-5	Heptane	0.85	3.48	UD	5	3.48	10.3	11/19/25 21:33	VL111925
75-35-4	1,1-Dichloroethene	0.75	2.97	UD	5	2.97	9.91	11/19/25 21:33	VL111925
67-64-1	Acetone	43.3	103	D	5	2.14	5.94	11/19/25 21:33	VL111925
75-15-0	Carbon Disulfide	1.50	4.67	JD	5	1.25	7.79	11/19/25 21:33	VL111925
1634-04-4	Methyl tert-Butyl Ether	1.20	4.33	UD	5	4.33	9.01	11/19/25 21:33	VL111925
75-09-2	Methylene Chloride	1.30	4.52	JD	5	4.17	8.69	11/19/25 21:33	VL111925
156-60-5	trans-1,2-Dichloroethene	0.60	2.38	UD	5	2.38	9.91	11/19/25 21:33	VL111925
75-34-3	1,1-Dichloroethane	0.65	2.63	UD	5	2.63	10.1	11/19/25 21:33	VL111925
110-82-7	Cyclohexane	1.10	3.79	UD	5	3.79	8.61	11/19/25 21:33	VL111925
78-93-3	2-Butanone	2.00	5.90	JD	5	0.83	7.37	11/19/25 21:33	VL111925
56-23-5	Carbon Tetrachloride	0.13	0.82	UD	5	0.82	0.94	11/19/25 21:33	VL111925
156-59-2	cis-1,2-Dichloroethene	0.50	1.98	UD	5	1.98	9.91	11/19/25 21:33	VL111925
67-66-3	Chloroform	0.48	2.34	UD	5	2.34	12.2	11/19/25 21:33	VL111925
71-55-6	1,1,1-Trichloroethane	0.080	0.44	UD	5	0.44	0.82	11/19/25 21:33	VL111925
540-84-1	2,2,4-Trimethylpentane	0.70	3.27	UD	5	3.27	11.7	11/19/25 21:33	VL111925
71-43-2	Benzene	10.1	32.3	D	5	1.28	7.99	11/19/25 21:33	VL111925
107-06-2	1,2-Dichloroethane	0.47	1.90	UD	5	1.90	10.1	11/19/25 21:33	VL111925
79-01-6	Trichloroethene	0.12	0.64	UD	5	0.64	0.81	11/19/25 21:33	VL111925
78-87-5	1,2-Dichloropropane	0.65	3.00	UD	5	3.00	11.6	11/19/25 21:33	VL111925
75-27-4	Bromodichloromethane	0.32	2.14	UD	5	2.14	16.8	11/19/25 21:33	VL111925
108-10-1	4-Methyl-2-Pentanone	0.49	2.01	UD	5	2.01	10.3	11/19/25 21:33	VL111925
108-88-3	Toluene	0.93	3.50	JD	5	3.01	9.42	11/19/25 21:33	VL111925
10061-02-6	t-1,3-Dichloropropene	0.75	3.40	UD	5	3.40	11.3	11/19/25 21:33	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.55	2.50	UD	5	2.50	11.3	11/19/25 21:33	VL111925
79-00-5	1,1,2-Trichloroethane	0.41	2.24	UD	5	2.24	13.6	11/19/25 21:33	VL111925
124-48-1	Dibromochloromethane	0.43	3.66	UD	5	3.66	21.3	11/19/25 21:33	VL111925
106-93-4	1,2-Dibromoethane	0.43	3.30	UD	5	3.30	3.84	11/19/25 21:33	VL111925
127-18-4	Tetrachloroethene	0.080	0.54	UD	5	0.54	1.02	11/19/25 21:33	VL111925
108-90-7	Chlorobenzene	0.39	1.80	UD	5	1.80	11.5	11/19/25 21:33	VL111925
100-41-4	Ethyl Benzene	0.95	4.13	UD	5	4.13	10.9	11/19/25 21:33	VL111925
179601-23-1	m/p-Xylene	2.10	9.12	UD	5	9.12	21.7	11/19/25 21:33	VL111925
95-47-6	o-Xylene	1.10	4.78	UD	5	4.78	10.9	11/19/25 21:33	VL111925
100-42-5	Styrene	0.80	3.41	UD	5	3.41	10.6	11/19/25 21:33	VL111925
75-25-2	Bromoform	0.24	2.48	UD	5	2.48	25.9	11/19/25 21:33	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.090	0.62	UD	5	0.62	1.03	11/19/25 21:33	VL111925
95-49-8	2-Chlorotoluene	0.85	4.40	UD	5	4.40	12.9	11/19/25 21:33	VL111925

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

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	9B-SG-2DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-04DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.90	4.42	UD	5	4.42	12.3	11/19/25 21:33	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.90	4.42	UD	5	4.42	12.3	11/19/25 21:33	VL111925
541-73-1	1,3-Dichlorobenzene	0.27	1.62	UD	5	1.62	15.0	11/19/25 21:33	VL111925
106-46-7	1,4-Dichlorobenzene	0.65	3.91	UD	5	3.91	15.0	11/19/25 21:33	VL111925
95-50-1	1,2-Dichlorobenzene	0.65	3.91	UD	5	3.91	15.0	11/19/25 21:33	VL111925
120-82-1	1,2,4-Trichlorobenzene	1.10	8.17	UD	5	8.17	18.6	11/19/25 21:33	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.65	6.93	UD	5	6.93	26.7	11/19/25 21:33	VL111925
106-99-0	1,3-Butadiene	5.70	12.6	D	5	0.58	5.53	11/19/25 21:33	VL111925
91-20-3	Naphthalene	0.070	0.37	UD	5	0.37	2.62	11/19/25 21:33	VL111925
622-96-8	4-Ethyltoluene	1.10	5.41	UD	5	5.41	12.3	11/19/25 21:33	VL111925
110-54-3	Hexane	1.70	5.99	JD	5	2.82	8.81	11/19/25 21:33	VL111925
107-05-1	Allyl Chloride	0.55	1.72	UD	5	1.72	7.83	11/19/25 21:33	VL111925
123-91-1	1,4-Dioxane	1.10	3.96	UD	5	3.96	9.01	11/19/25 21:33	VL111925
80-62-6	Methyl Methacrylate	0.70	2.87	UD	5	2.87	10.2	11/19/25 21:33	VL111925
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	98400							
540-36-3	1,4-Difluorobenzene	274000							
3114-55-4	Chlorobenzene-d5	209000							

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\VL111925\
Data File : VL043250.D
Acq On : 19 Nov 2025 21:33
Operator : SY/MD
Sample : Q3626-04DL 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:11:45 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-SG-2DL

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	2.781	49	98441	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	273742	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	208879	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.368	95	151610	9.902	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	1486	0.107	ppbv	94
4) Chloromethane	1.532	50	14812	2.853	ppbv	90
5) Vinyl Chloride	1.577	62	716	0.126	ppbv	91
7) Chloroethane	1.700	64	1033	0.467	ppbv	89
9) Propene	1.483	41	4846	0.836	ppbv #	1
13) Ethanol	1.719	45	27356	13.417	ppbv	100
15) Acetone	1.833	43	118326	8.652	ppbv	100
16) 1,3-Butadiene	1.603	39	6947	1.139	ppbv #	53
19) Isopropyl Alcohol	1.884	45	19406	2.511	ppbv #	1
20) Methylene Chloride	2.059	84	4144	0.264	ppbv #	86
26) Hexane	2.820	57	4464	0.345	ppbv #	39
27) Carbon Disulfide	2.147	76	3921	0.297	ppbv #	1
34) 2-Butanone	2.554	43	7858	0.407	ppbv	98
36) Benzene	3.648	78	53179	2.029	ppbv	98
53) Toluene	6.914	91	5730m	0.185	ppbv	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043250.D
Acq On : 19 Nov 2025 21:33
Operator : SY/MD
Sample : Q3626-04DL 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:11:45 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-SG-2DL

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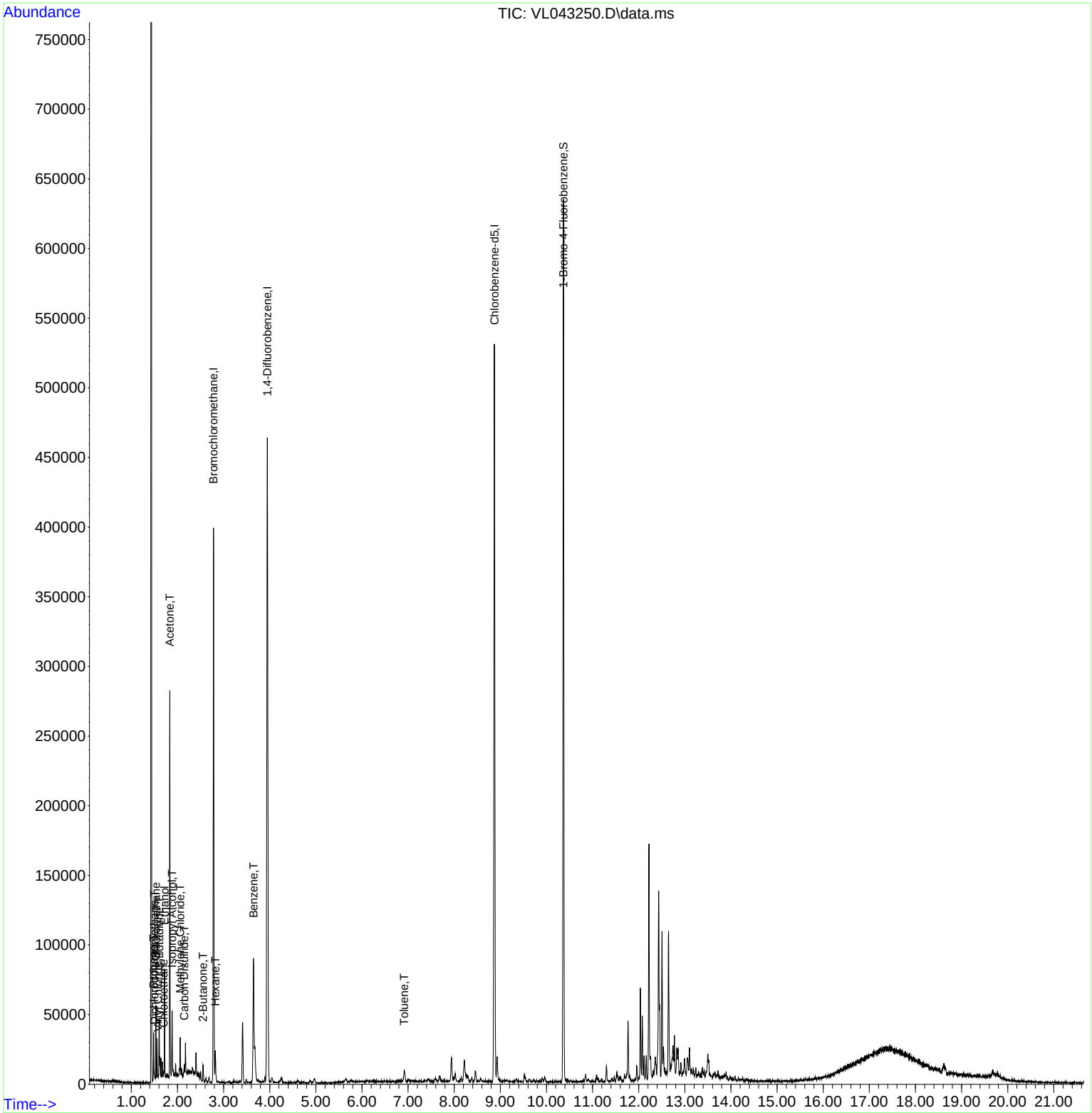
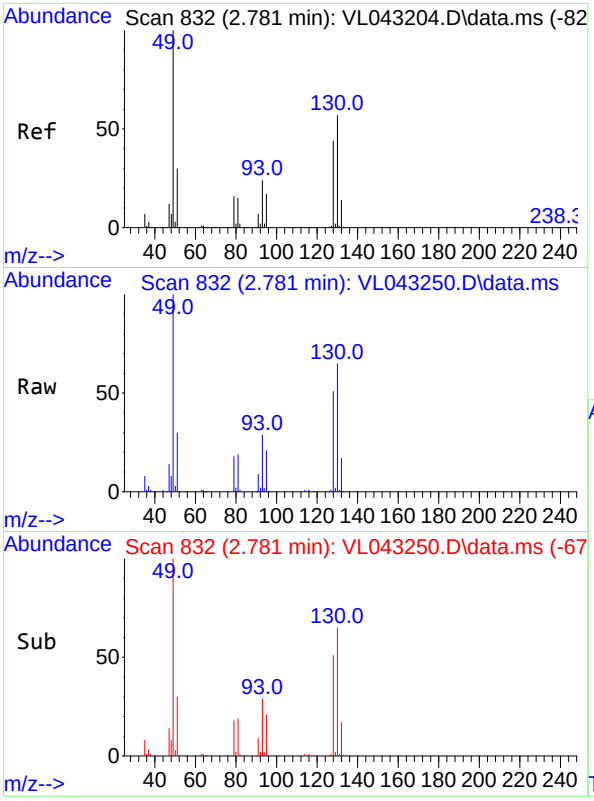
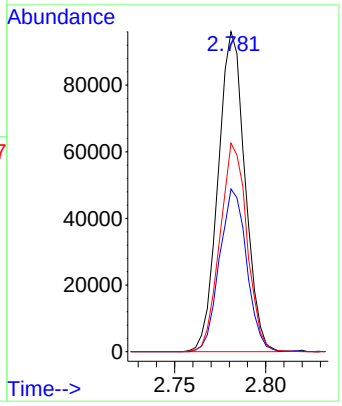




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 49 Resp: 9844

Ion	Ratio	Lower	Upper
49	100		
128	51.5	23.0	69.0
130	65.5	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Manual Integrations
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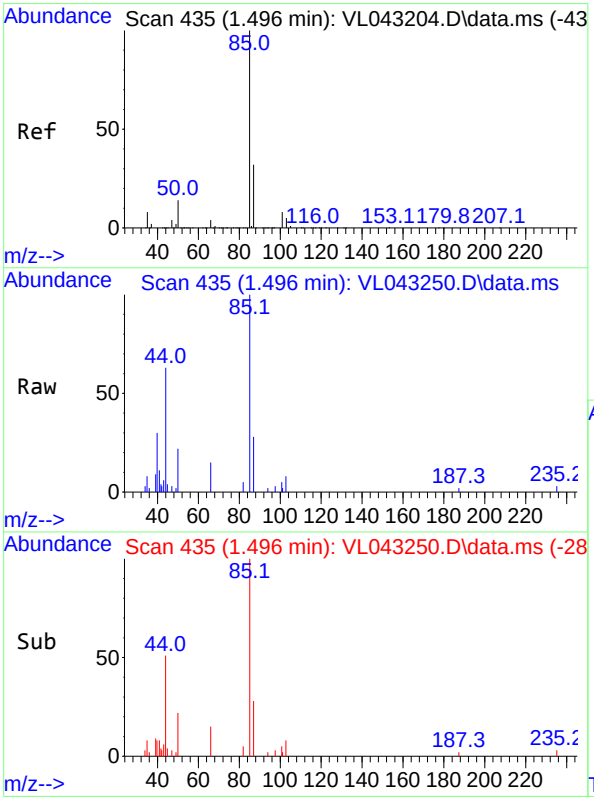
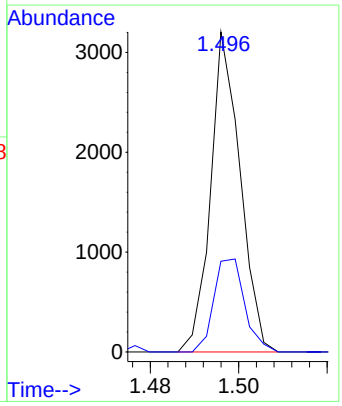
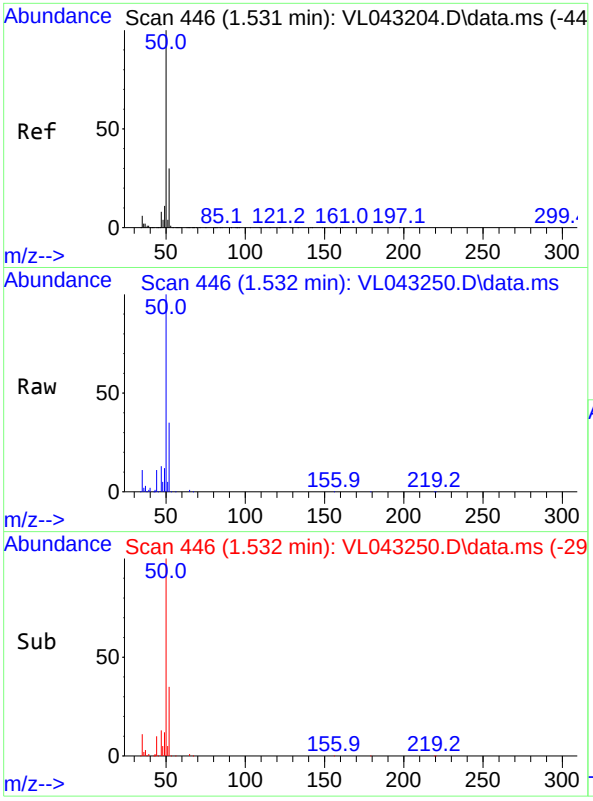


#2
Dichlorodifluoromethane
Concen: 0.107 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 85 Resp: 1486

Ion	Ratio	Lower	Upper
85	100		
87	28.3	25.4	38.2

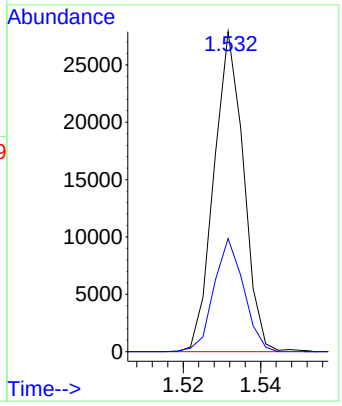




#4
Chloromethane
Concen: 2.853 ppbv
RT: 1.532 min Scan# 44
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 50 Resp: 1481

Ion	Ratio	Lower	Upper
50	100		
52	35.3	24.1	36.1



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

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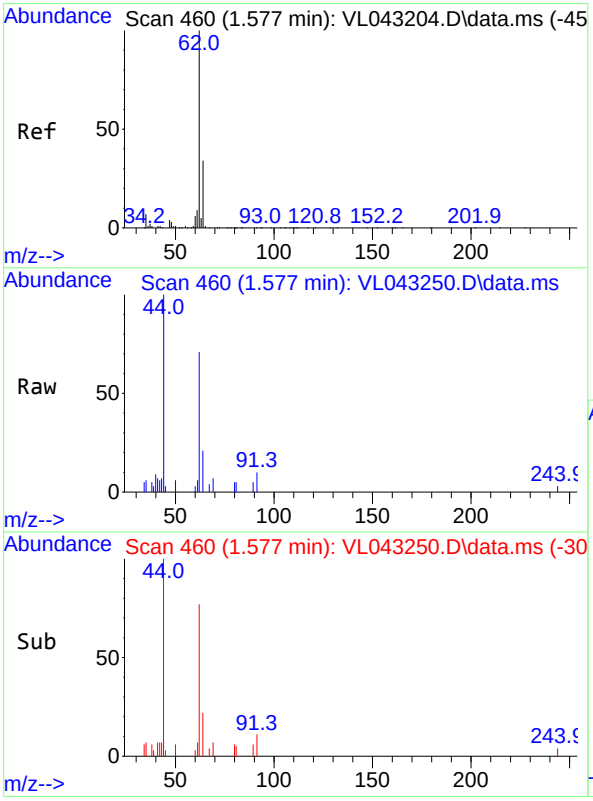
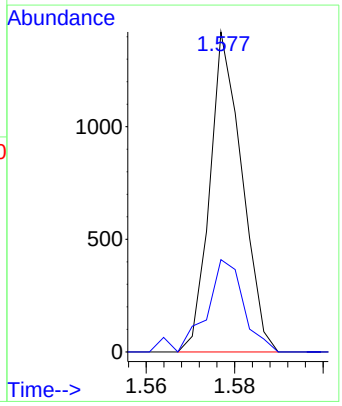
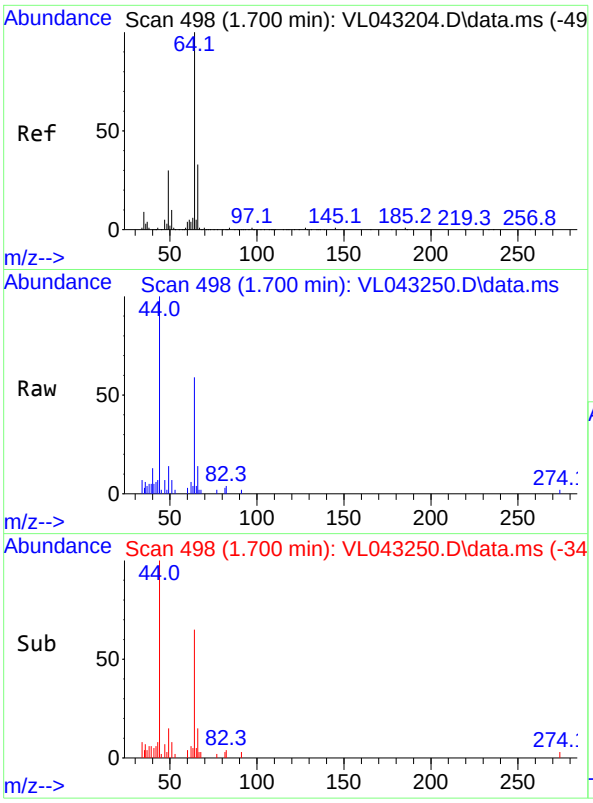


#5
Vinyl Chloride
Concen: 0.126 ppbv
RT: 1.577 min Scan# 460
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 62 Resp: 716

Ion	Ratio	Lower	Upper
62	100		
64	28.9	27.3	40.9

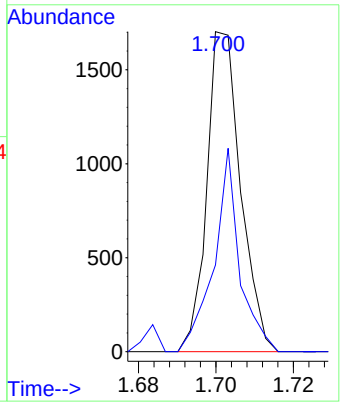




#7
Chloroethane
Concen: 0.467 ppbv
RT: 1.700 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 64 Resp: 103

Ion	Ratio	Lower	Upper
64	100		
66	27.1	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

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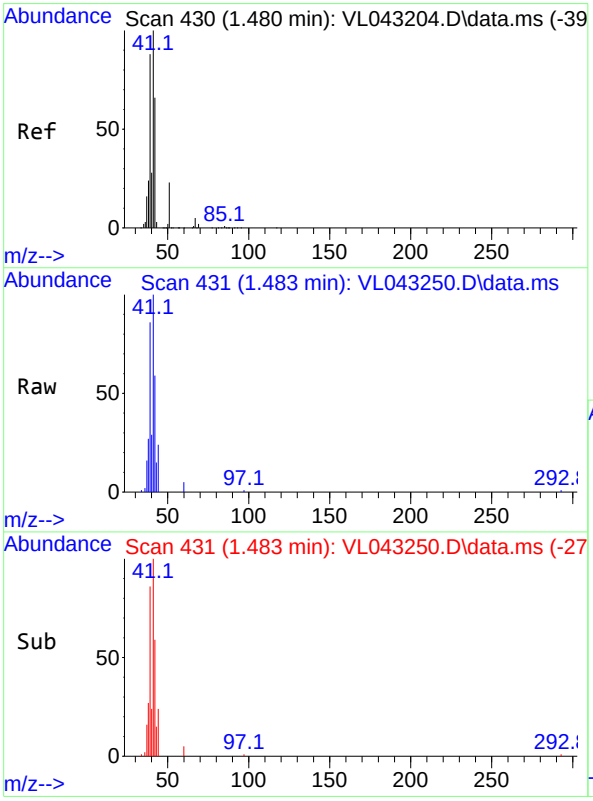
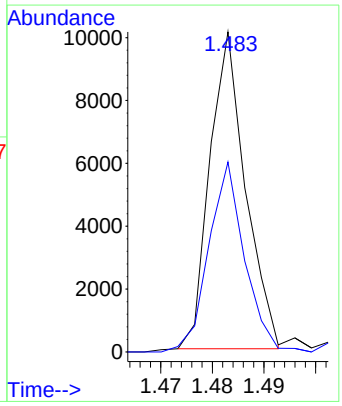
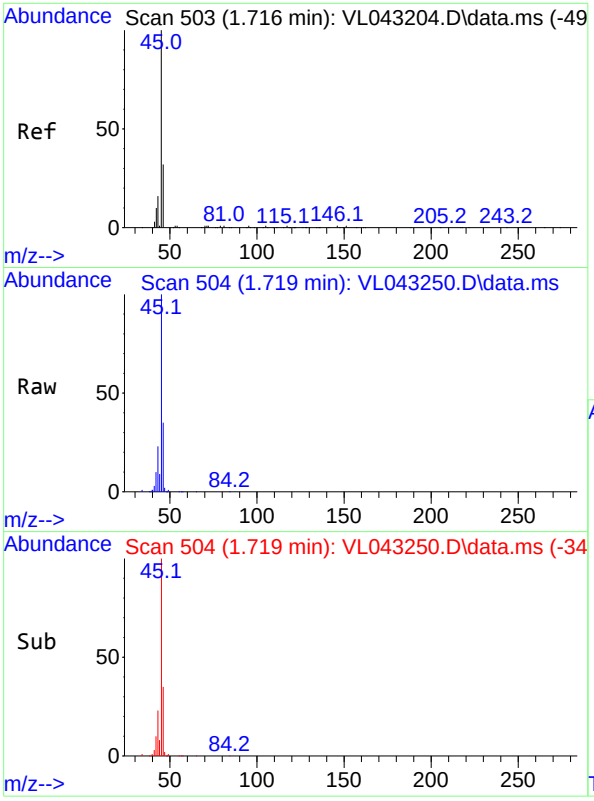


#9
Propene
Concen: 0.836 ppbv
RT: 1.483 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 41 Resp: 4846

Ion	Ratio	Lower	Upper
41	100		
42	63.9	3.7	5.5#

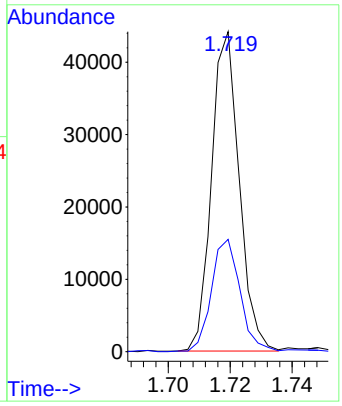




#13
Ethanol
Concen: 13.417 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 45 Resp: 2735(

Ion	Ratio	Lower	Upper
45	100		
46	37.6	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

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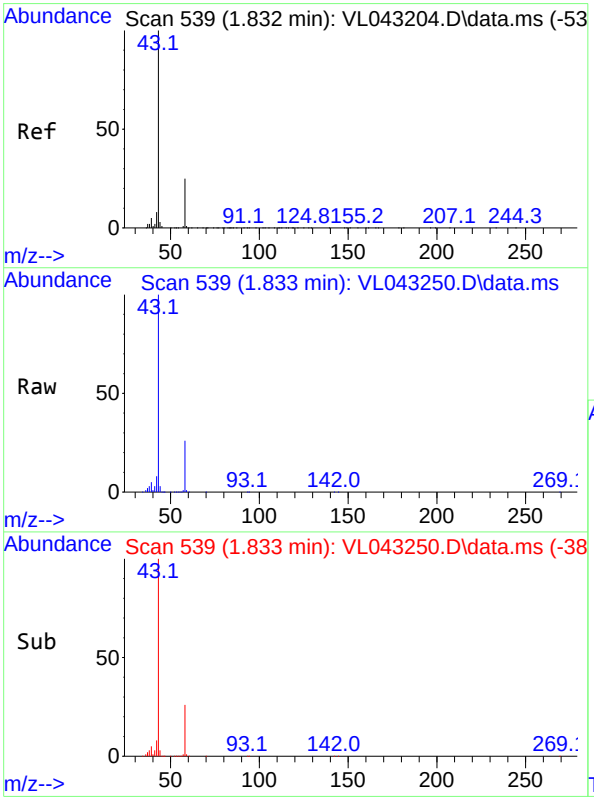
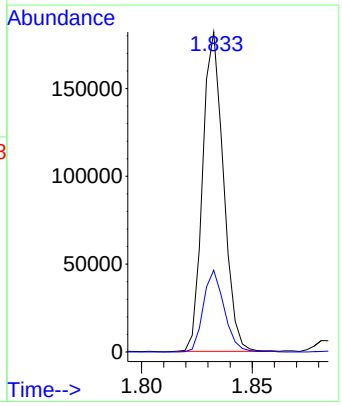
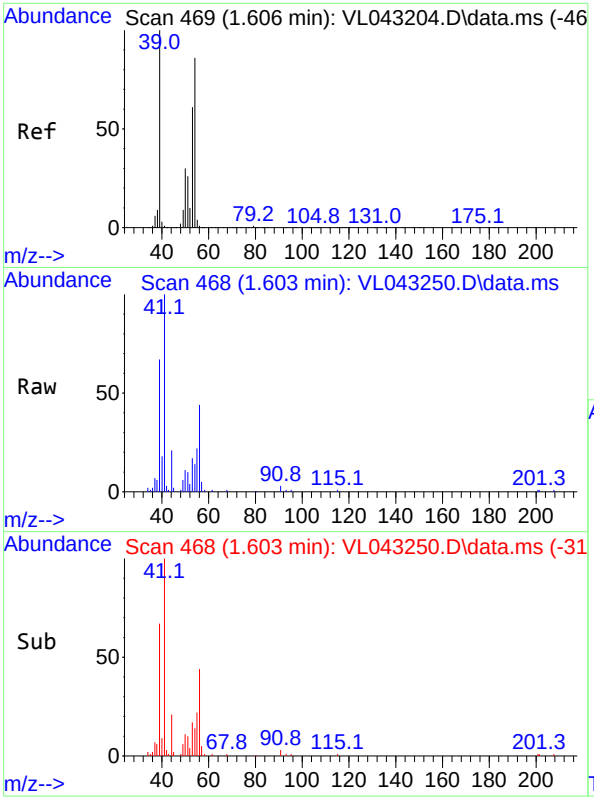


#15
Acetone
Concen: 8.652 ppbv
RT: 1.833 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 43 Resp: 118326

Ion	Ratio	Lower	Upper
43	100		
58	25.8	20.7	31.1





#16
1,3-Butadiene
Concen: 1.139 ppbv
RT: 1.603 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 39 Resp: 694

Ion	Ratio	Lower	Upper
39	100		
54	34.8	59.4	89.2#

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Manual Integrations
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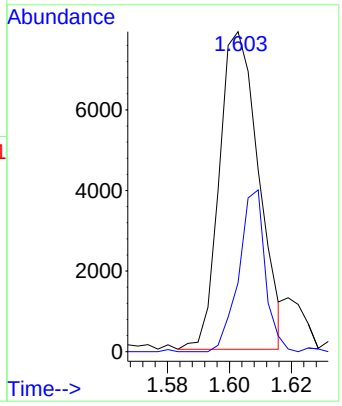
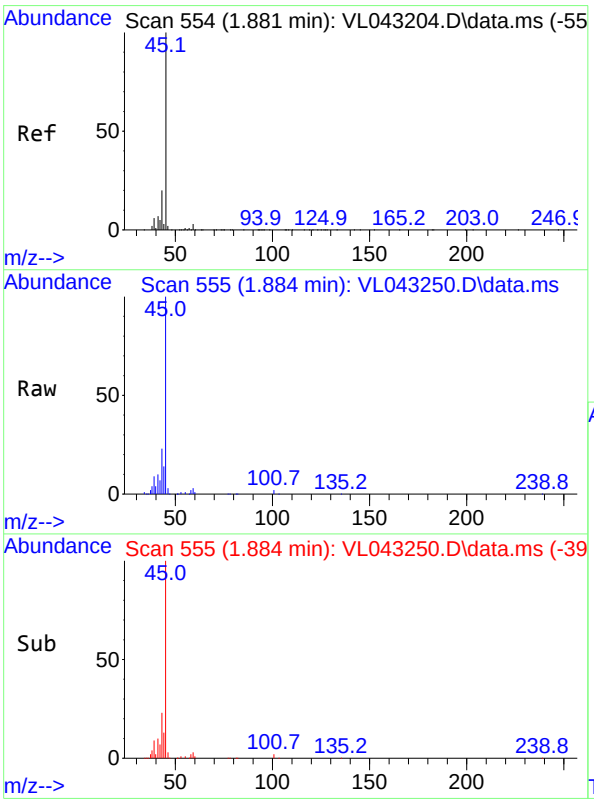
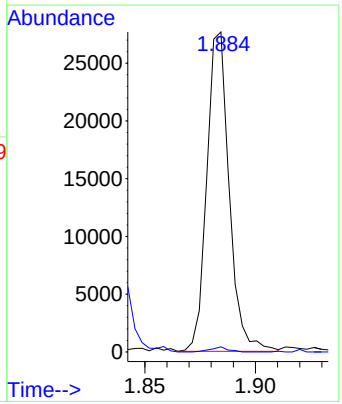


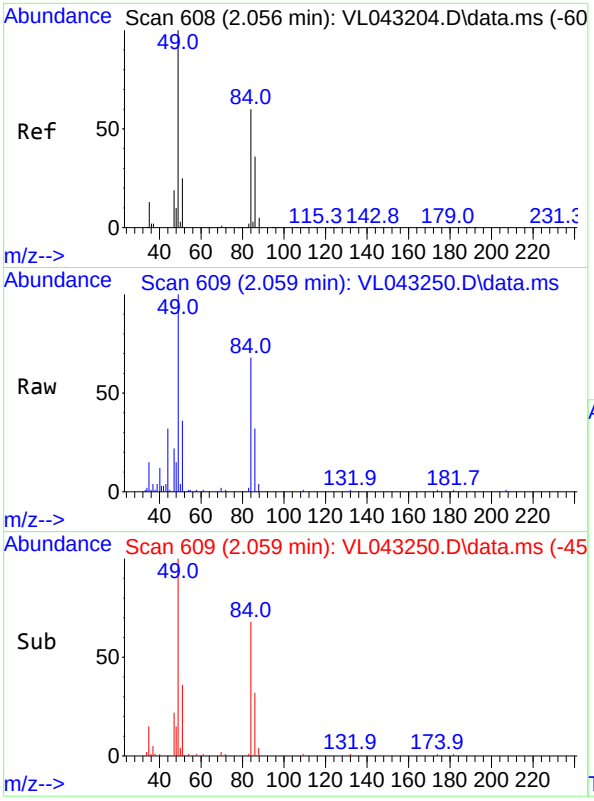


#19
Isopropyl Alcohol
Concen: 2.511 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 45 Resp: 19406

Ion	Ratio	Lower	Upper
45	100		
58	157.1	31.3	46.9#

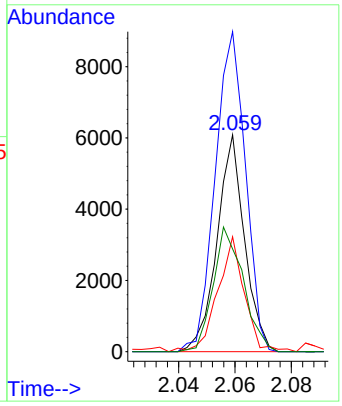




#20
Methylene Chloride
Concen: 0.264 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 84 Resp: 414

Ion	Ratio	Lower	Upper
84	100		
49	147.6	132.9	199.3
51	51.9	34.8	52.2
86	47.4	48.2	72.2#



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

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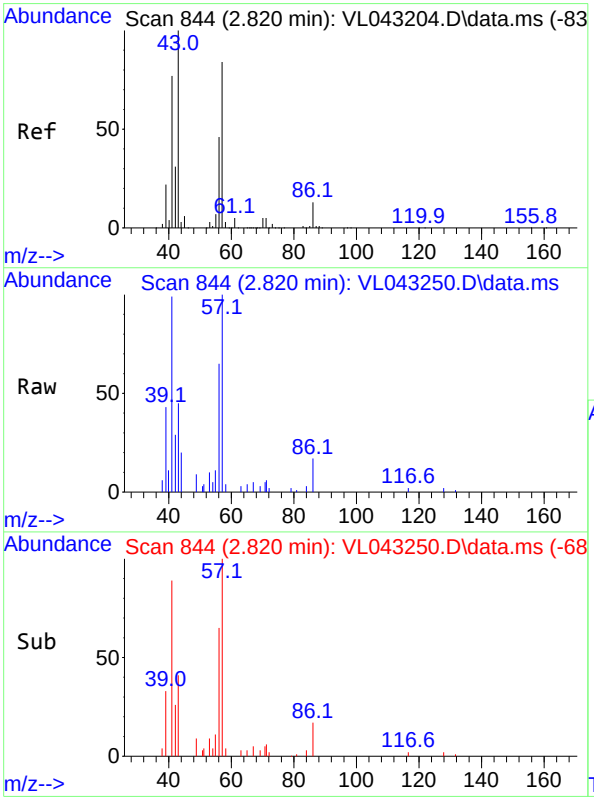
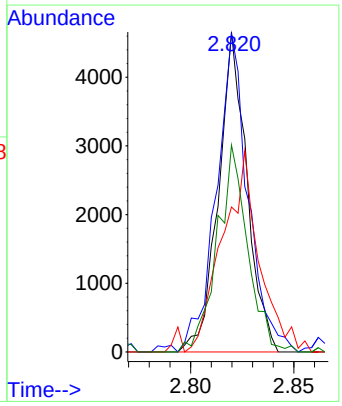
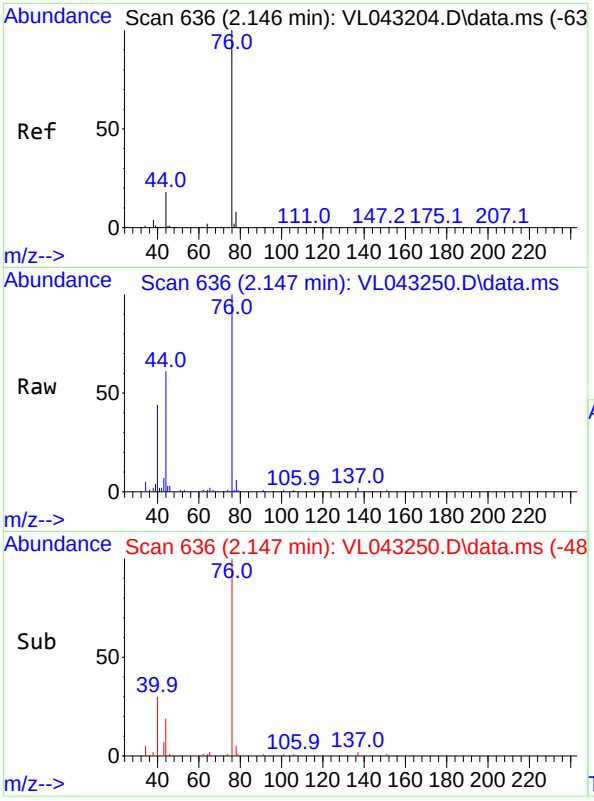


#26
Hexane
Concen: 0.345 ppbv
RT: 2.820 min Scan# 844
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 57 Resp: 4464

Ion	Ratio	Lower	Upper
57	100		
41	112.3	74.6	111.8#
43	82.8	179.0	268.4#
56	69.4	42.3	63.5#





#27
Carbon Disulfide
Concen: 0.297 ppbv
RT: 2.147 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 76 Resp: 392

Ion	Ratio	Lower	Upper
76	100		
44	251.3	16.1	24.1#
78	10.7	9.6	14.4

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

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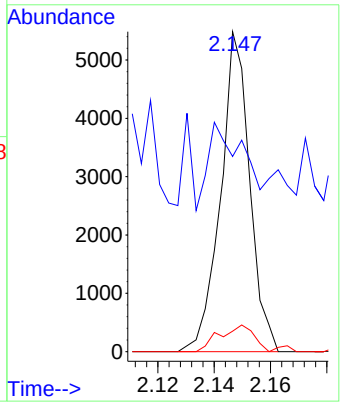
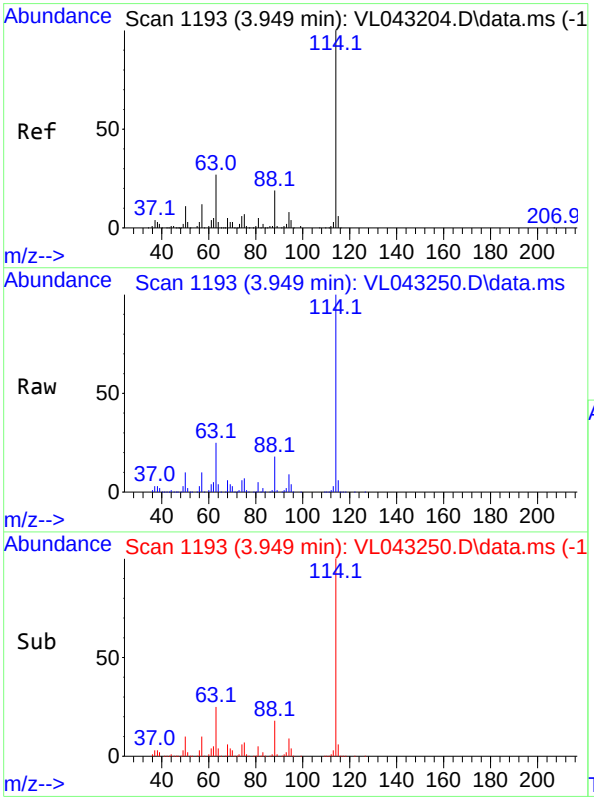
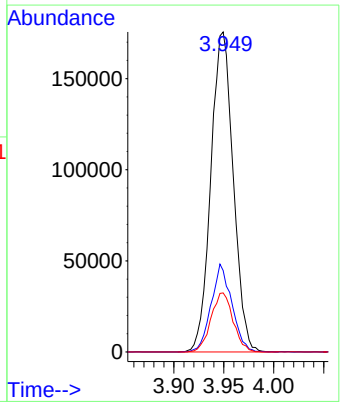


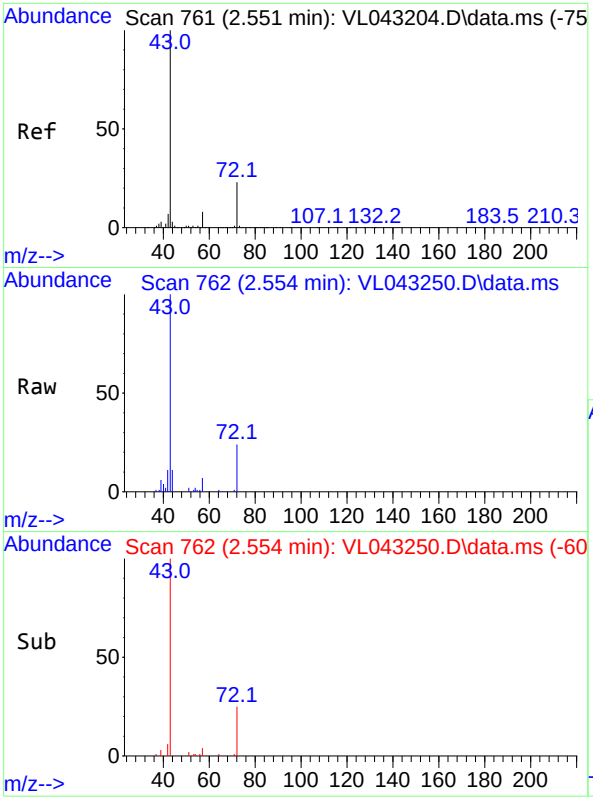


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion:114 Resp: 273742

Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.0	31.6
88	18.2	14.9	22.3

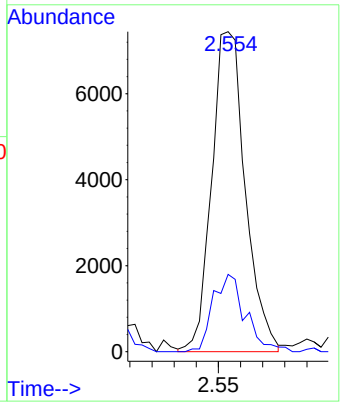




#34
2-Butanone
Concen: 0.407 ppbv
RT: 2.554 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 43 Resp: 785

Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.1	27.1



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Manual Integrations
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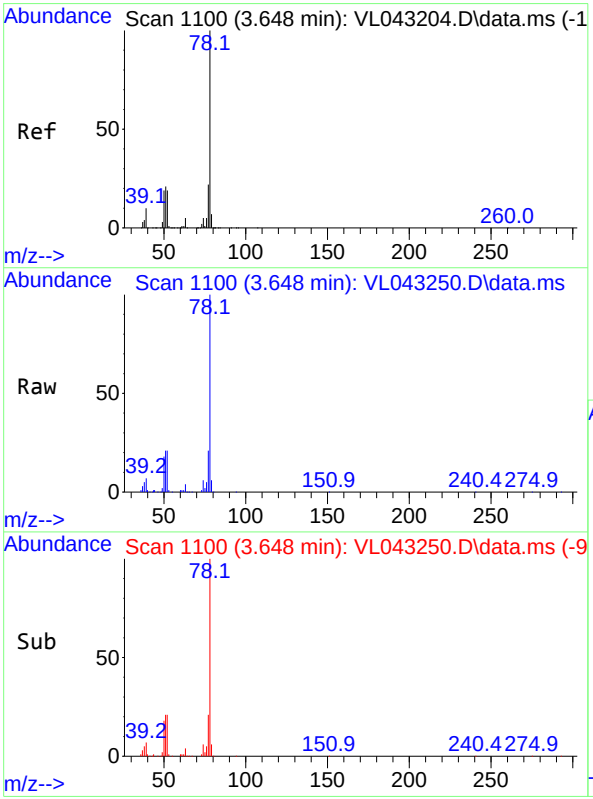
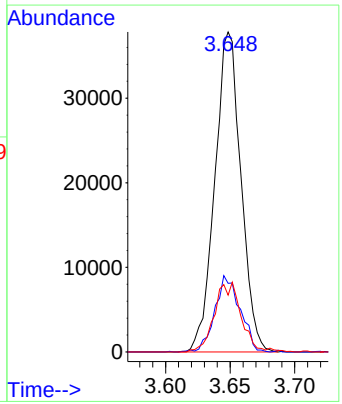
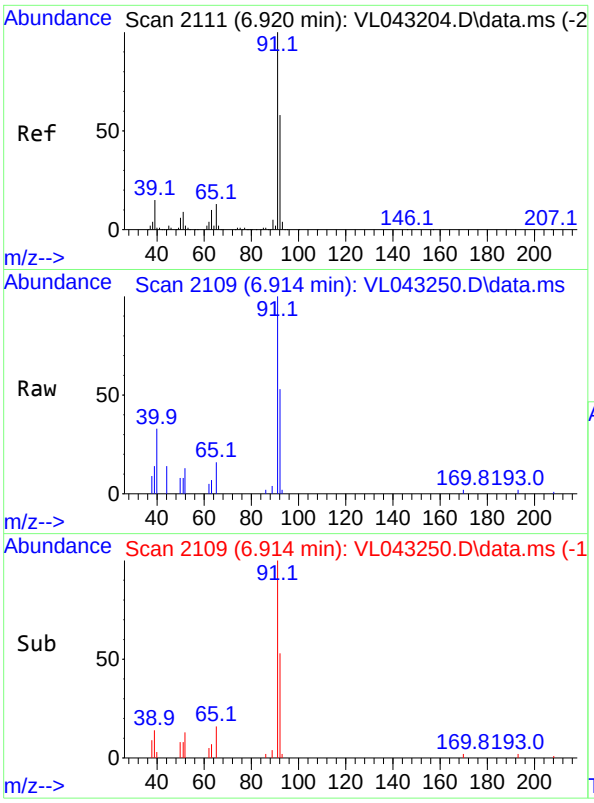


#36
Benzene
Concen: 2.029 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 78 Resp: 53179

Ion	Ratio	Lower	Upper
78	100		
77	21.5	17.5	26.3
50	17.8	15.5	23.3

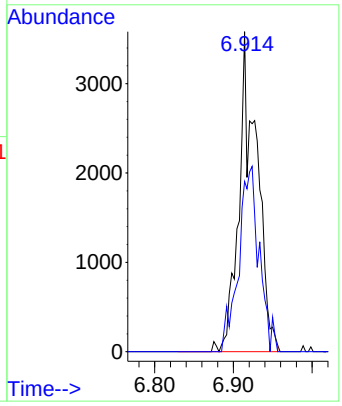




#53
Toluene
Concen: 0.185 ppbv m
RT: 6.914 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 91 Resp: 573

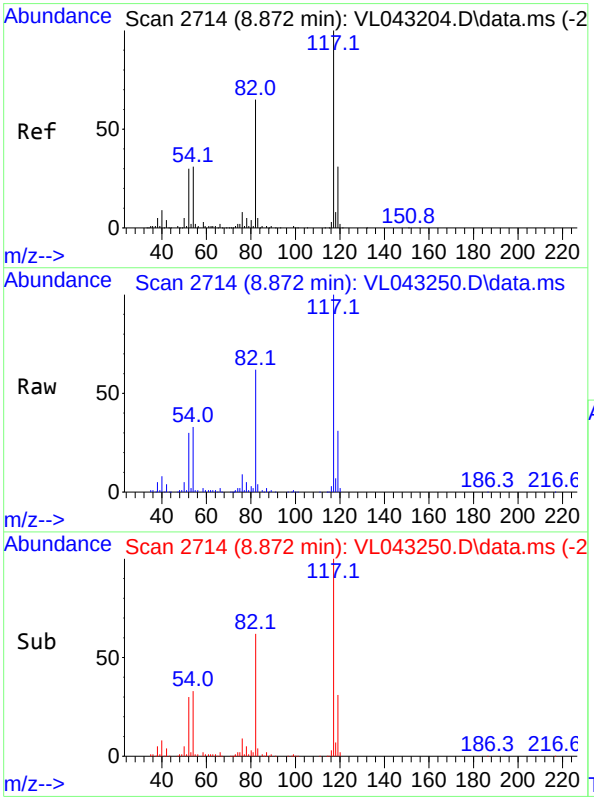
Ion	Ratio	Lower	Upper
91	100		
92	65.6	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Manual Integrations
APPROVED

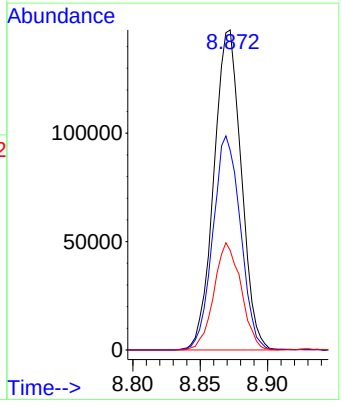
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

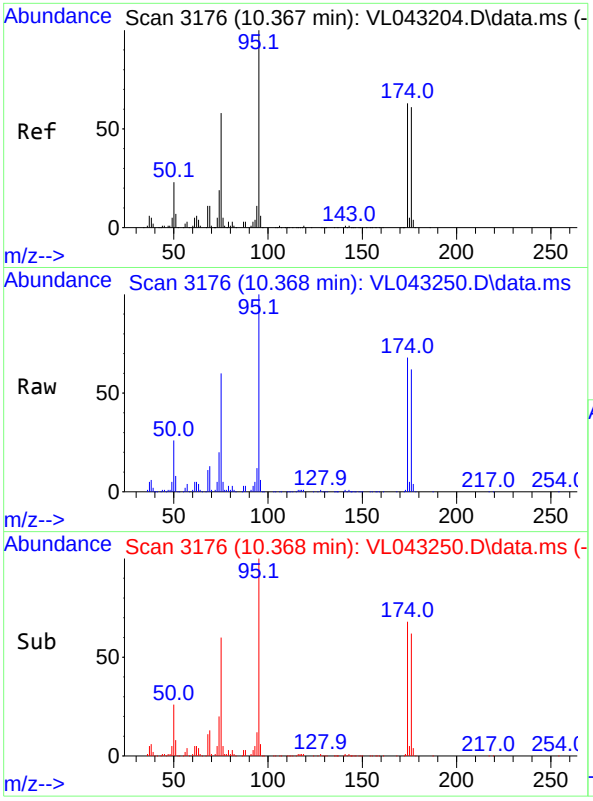


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion:117 Resp: 208879

Ion	Ratio	Lower	Upper
117	100		
82	67.6	56.1	84.1
119	33.2	25.0	37.6

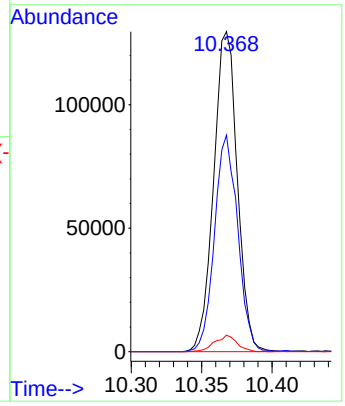




#68
1-Bromo-4-Fluorobenzene
Concen: 9.902 ppbv
RT: 10.368 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 95 Resp: 15161

Ion	Ratio	Lower	Upper
95	100		
174	66.6	50.2	75.2
175	4.9	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	10-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-05	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	0.54	2.67	J	2	1.09	4.94	11/19/25 14:59	VL111925
74-87-3	Chloromethane	0.20	0.41	U	2	0.41	2.07	11/19/25 14:59	VL111925
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/19/25 14:59	VL111925
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/19/25 14:59	VL111925
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/19/25 14:59	VL111925
109-99-9	Tetrahydrofuran	0.32	0.94	J	2	0.47	2.95	11/19/25 14:59	VL111925
75-69-4	Trichlorofluoromethane	0.34	1.91	U	2	1.91	5.62	11/19/25 14:59	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/19/25 14:59	VL111925
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/19/25 14:59	VL111925
75-65-0	tert-Butyl alcohol	0.32	0.97	U	2	0.97	3.03	11/19/25 14:59	VL111925
142-82-5	Heptane	0.34	1.39	U	2	1.39	4.10	11/19/25 14:59	VL111925
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/19/25 14:59	VL111925
67-64-1	Acetone	180	428	E	2	0.86	2.38	11/19/25 14:59	VL111925
75-15-0	Carbon Disulfide	0.72	2.24	J	2	0.50	3.11	11/19/25 14:59	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/19/25 14:59	VL111925
75-09-2	Methylene Chloride	1.40	4.86		2	1.60	3.47	11/19/25 14:59	VL111925
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/19/25 14:59	VL111925
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/19/25 14:59	VL111925
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/19/25 14:59	VL111925
78-93-3	2-Butanone	1.50	4.42		2	0.32	2.95	11/19/25 14:59	VL111925
56-23-5	Carbon Tetrachloride	0.060	0.38		2	0.31	0.38	11/19/25 14:59	VL111925
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/19/25 14:59	VL111925
67-66-3	Chloroform	1.20	5.86		2	0.93	4.88	11/19/25 14:59	VL111925
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	2	0.16	0.33	11/19/25 14:59	VL111925
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/19/25 14:59	VL111925
71-43-2	Benzene	0.16	0.51	U	2	0.51	3.19	11/19/25 14:59	VL111925
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/19/25 14:59	VL111925
79-01-6	Trichloroethene	1.80	9.67		2	0.27	0.32	11/19/25 14:59	VL111925
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/19/25 14:59	VL111925
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/19/25 14:59	VL111925
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	U	2	0.78	4.10	11/19/25 14:59	VL111925
108-88-3	Toluene	0.32	1.21	U	2	1.21	3.77	11/19/25 14:59	VL111925
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/19/25 14:59	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/19/25 14:59	VL111925
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/19/25 14:59	VL111925
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/19/25 14:59	VL111925
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/19/25 14:59	VL111925
127-18-4	Tetrachloroethene	130	882	E	2	0.20	0.41	11/19/25 14:59	VL111925
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/19/25 14:59	VL111925
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/19/25 14:59	VL111925
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/19/25 14:59	VL111925
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/19/25 14:59	VL111925
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/19/25 14:59	VL111925
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/19/25 14:59	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/19/25 14:59	VL111925
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/19/25 14:59	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	10-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 14:59	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 14:59	VL111925
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/19/25 14:59	VL111925
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 14:59	VL111925
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 14:59	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/19/25 14:59	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/19/25 14:59	VL111925
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/19/25 14:59	VL111925
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/19/25 14:59	VL111925
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/19/25 14:59	VL111925
110-54-3	Hexane	0.87	3.07	J	2	1.13	3.52	11/19/25 14:59	VL111925
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/19/25 14:59	VL111925
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/19/25 14:59	VL111925
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/19/25 14:59	VL111925
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.0				70 (65) - 130 (135)	100% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	103000							
540-36-3	1,4-Difluorobenzene	286000							
3114-55-4	Chlorobenzene-d5	222000							

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\VL111925\
Data File : VL043239.D
Acq On : 19 Nov 2025 14:59
Operator : SY/MD
Sample : Q3626-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:05:40 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-SG-1

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	2.787	49	103410	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	285776	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	221762	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	162206	9.979	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3957	0.271	ppbv		96
3) Chlorodifluoromethane	1.476	51	3425	0.239	ppbv		96
9) Propene	1.486	41	1552	0.255	ppbv	#	86
11) Trichlorofluoromethane	1.877	101	1726	0.122	ppbv		92
13) Ethanol	1.722	45	19662	9.180	ppbv		99
15) Acetone	1.832	43	1257557	87.530	ppbv		96
19) Isopropyl Alcohol	1.884	45	295068	36.345	ppbv	#	1
20) Methylene Chloride	2.062	84	6137	0.721	ppbv	#	91
26) Hexane	2.826	57	5891	0.434	ppbv	#	45
27) Carbon Disulfide	2.149	76	5026	0.362	ppbv	#	6
29) Chloroform	2.845	83	11863	0.614	ppbv		88
34) 2-Butanone	2.557	43	14813	0.734	ppbv		93
35) Carbon Tetrachloride	3.761	117	685m	0.032	ppbv		
38) Trichloroethene	4.541	130	9779m	0.913	ppbv		
41) Tetrahydrofuran	3.059	42	1765	0.158	ppbv	#	86
52) Tetrachloroethene	8.224	164	656288	64.467	ppbv		98
53) Toluene	6.933	91	4349m	0.134	ppbv		
59) m/p-Xylene	9.526	91	6116m	0.179	ppbv		
74) 1,2,4-Trimethylbenzene	11.529	105	3957m	0.104	ppbv		

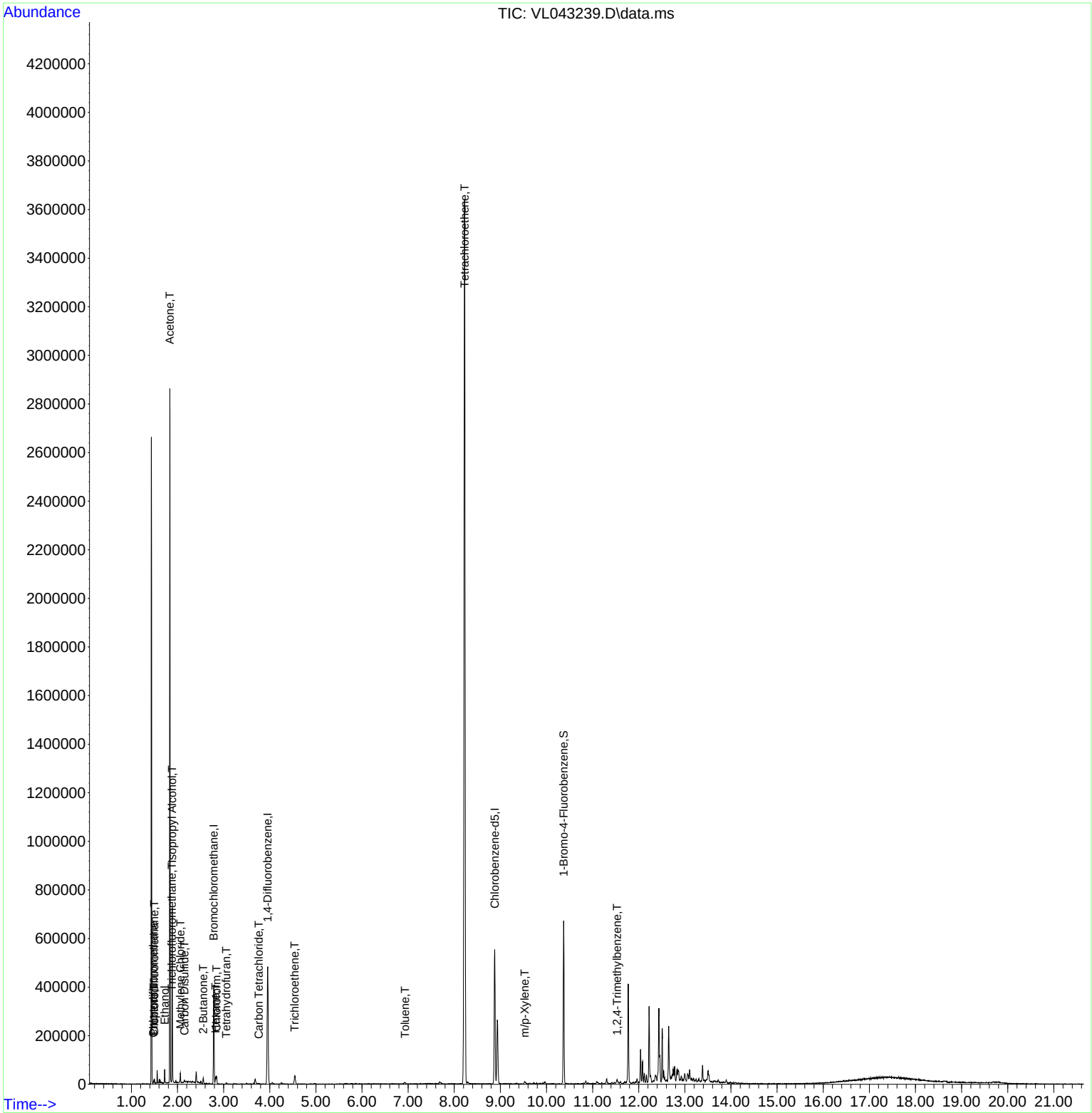
(#) = qualifier out of range (m) = manual integration (+) = signals summed

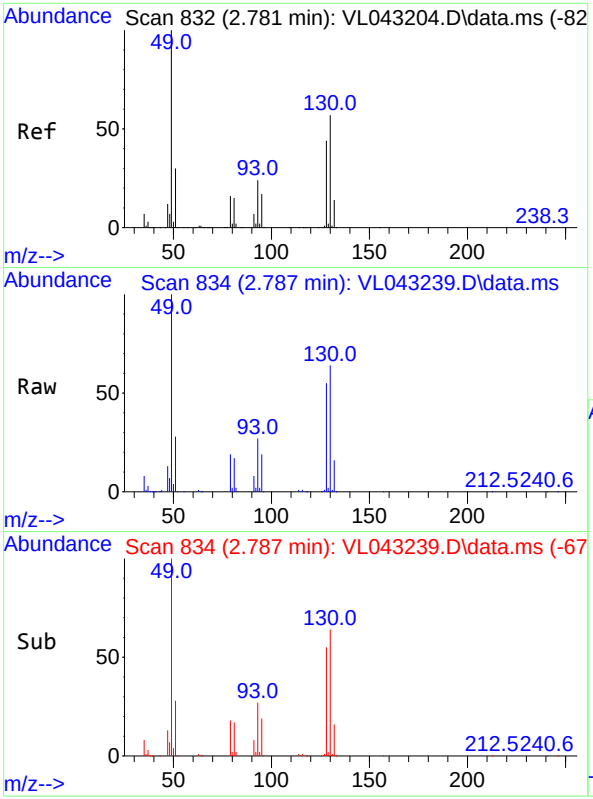
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043239.D
Acq On : 19 Nov 2025 14:59
Operator : SY/MD
Sample : Q3626-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:05:40 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-SG-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

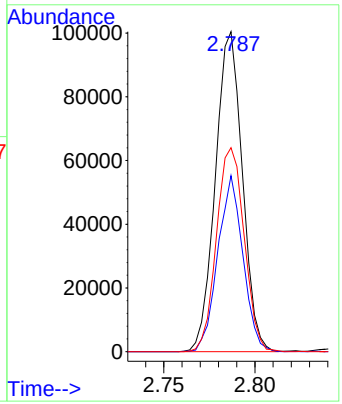




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 49 Resp: 10341

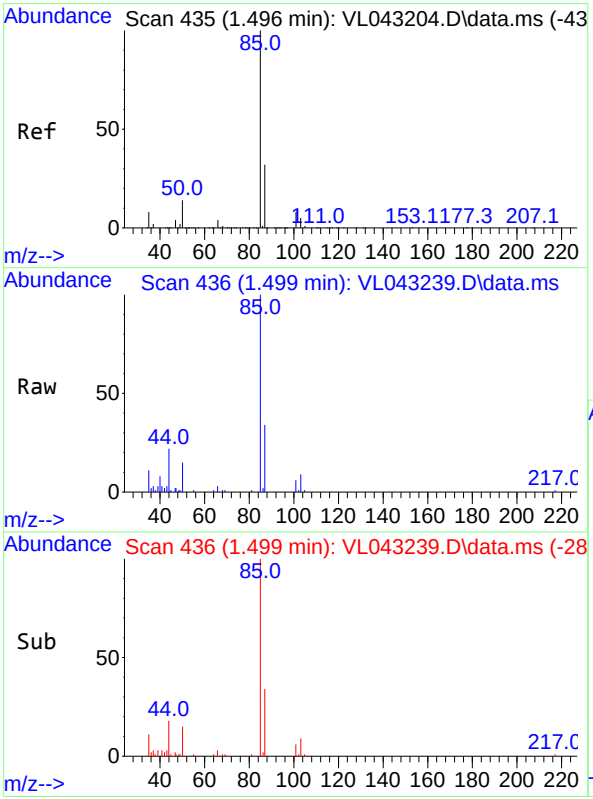
Ion	Ratio	Lower	Upper
49	100		
128	51.1	23.0	69.0
130	65.4	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Manual Integrations
APPROVED

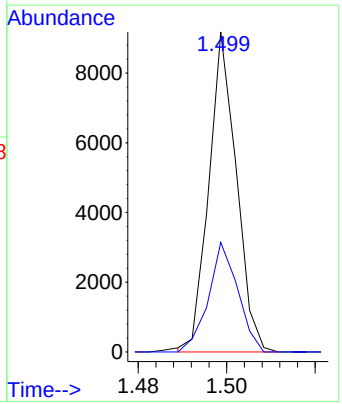
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

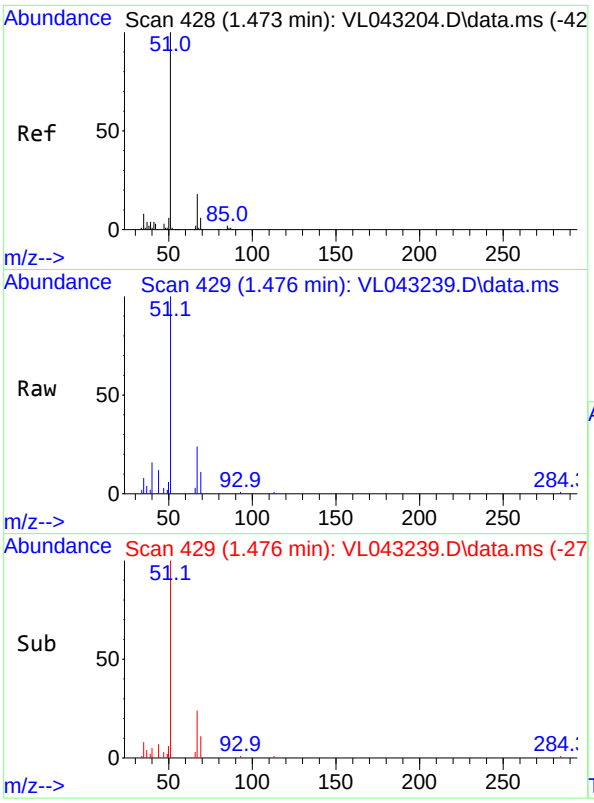


#2
Dichlorodifluoromethane
Concen: 0.271 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 85 Resp: 3957

Ion	Ratio	Lower	Upper
85	100		
87	34.2	25.4	38.2

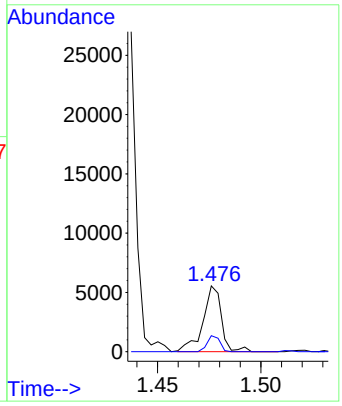




#3
Chlorodifluoromethane
Concen: 0.239 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 51 Resp: 342

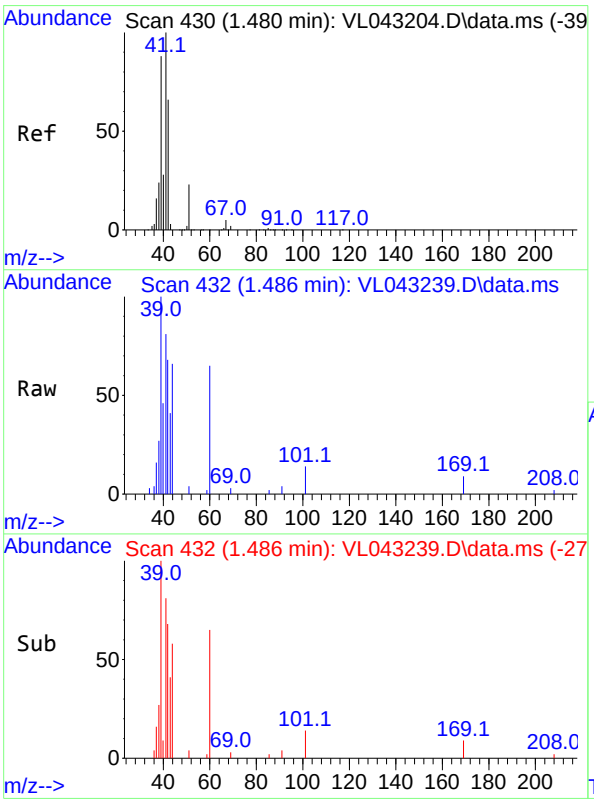
Ion	Ratio	Lower	Upper
51	100		
67	16.6	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Manual Integrations
APPROVED

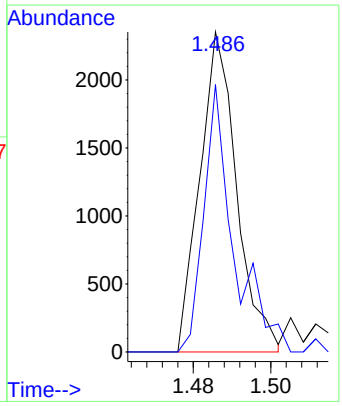
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

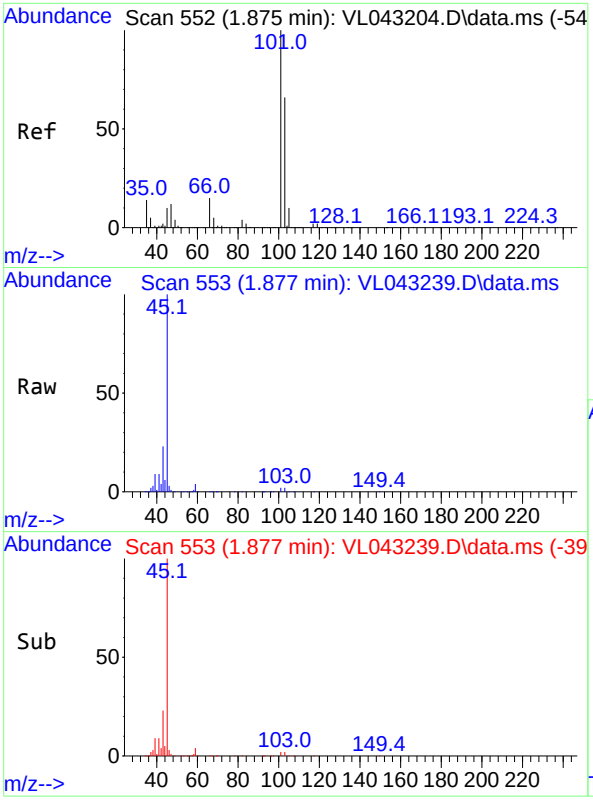


#9
Propene
Concen: 0.255 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 41 Resp: 1552

Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5#

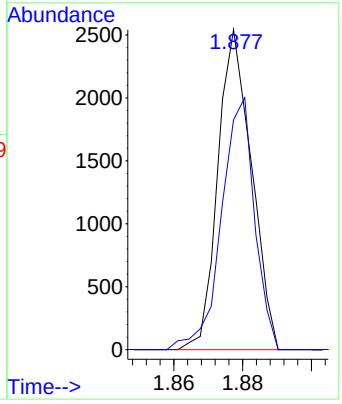




#11
Trichlorofluoromethane
Concen: 0.122 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion:101 Resp: 172

Ion	Ratio	Lower	Upper
101	100		
103	71.9	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

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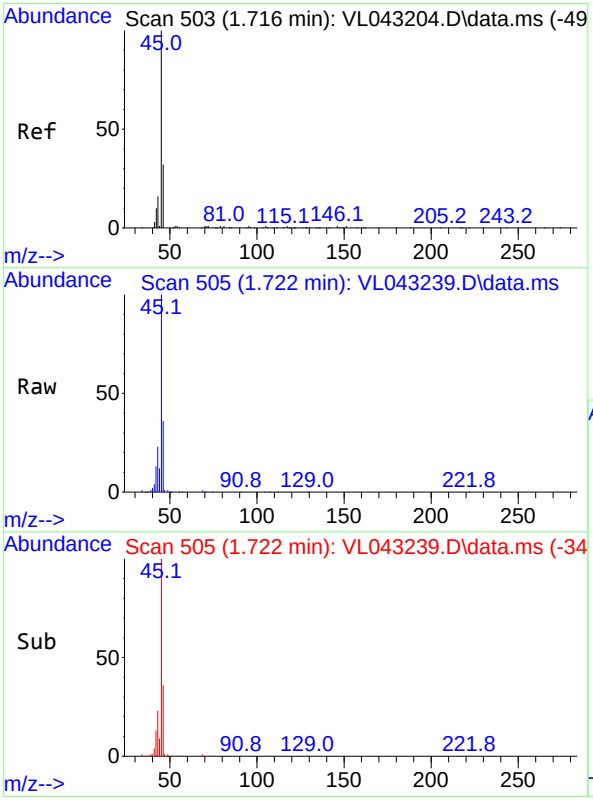
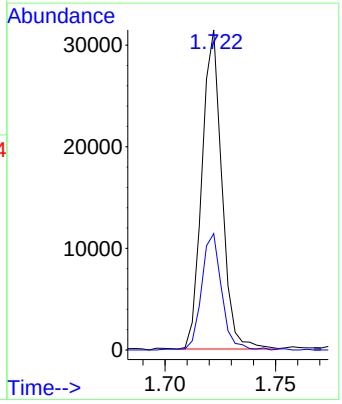
Supervised By :Mahesh Dadoda 11/21/2025

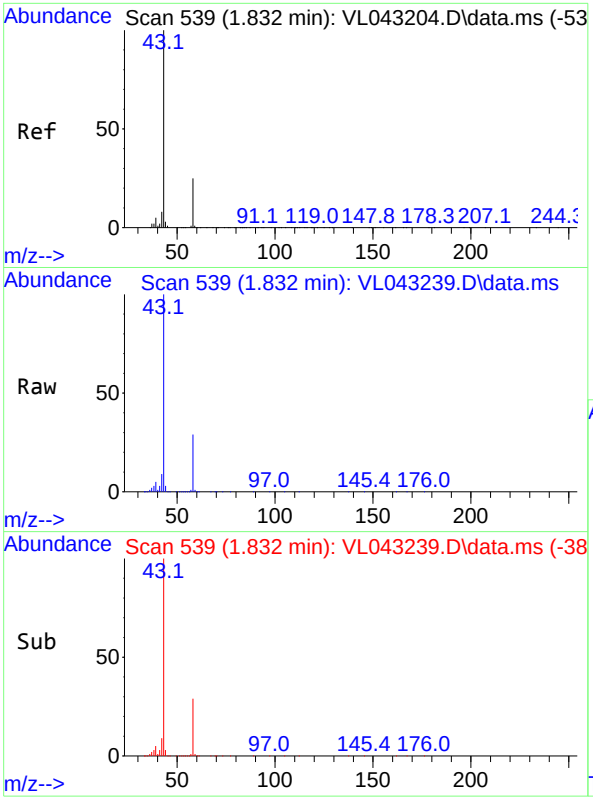


#13
Ethanol
Concen: 9.180 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 45 Resp: 19662

Ion	Ratio	Lower	Upper
45	100		
46	37.0	15.0	59.8

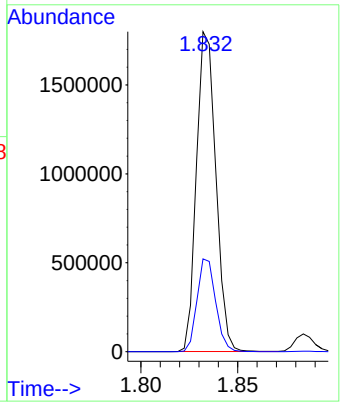




#15
Acetone
Concen: 87.530 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 43 Resp: 125755

Ion	Ratio	Lower	Upper
43	100		
58	27.8	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
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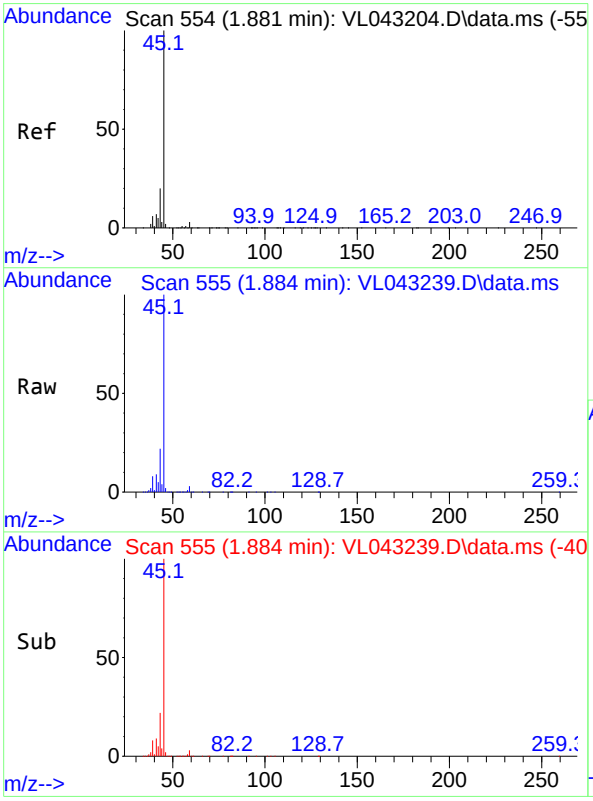
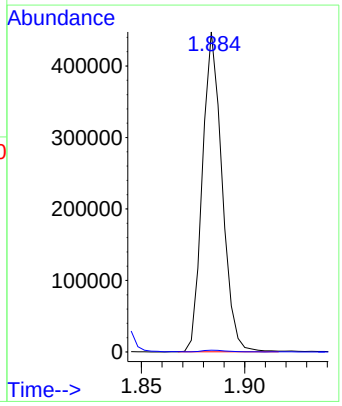
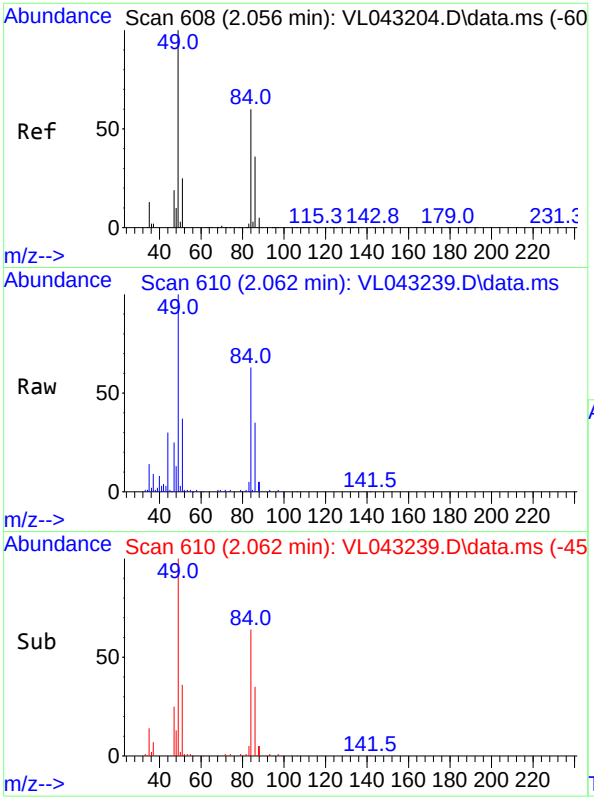


#19
Isopropyl Alcohol
Concen: 36.345 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 45 Resp: 295068

Ion	Ratio	Lower	Upper
45	100		
58	118.7	31.3	46.9#

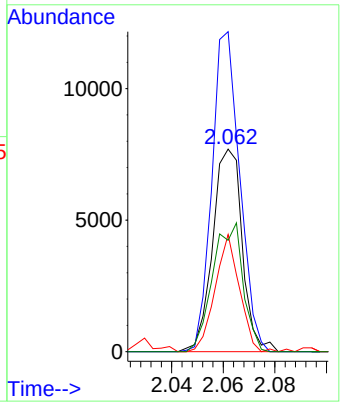




#20
Methylene Chloride
Concen: 0.721 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 84 Resp: 613

Ion	Ratio	Lower	Upper
84	100		
49	157.9	132.9	199.3
51	57.8	34.8	52.2#
86	55.0	48.2	72.2



Instrument :
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ClientSampleId :
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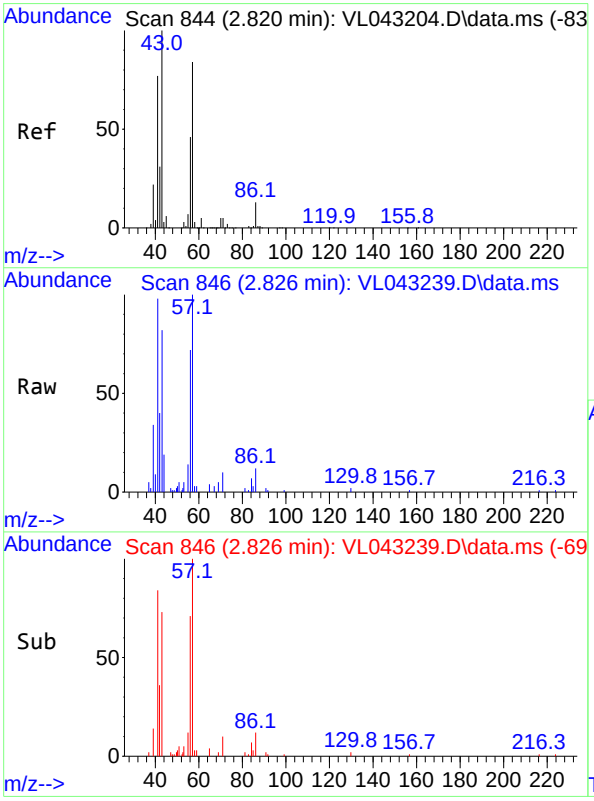
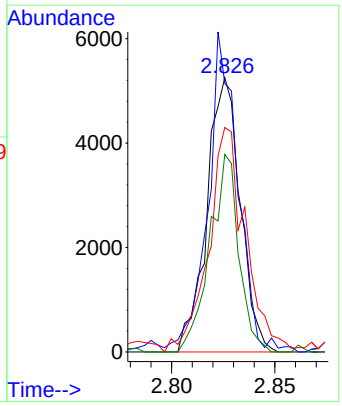
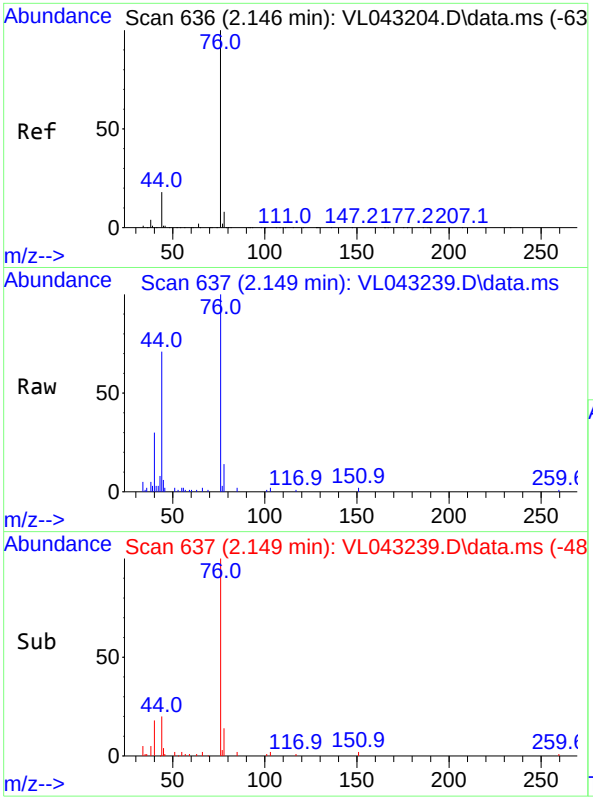


#26
Hexane
Concen: 0.434 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 57 Resp: 5891

Ion	Ratio	Lower	Upper
57	100		
41	108.8	74.6	111.8
43	94.0	179.0	268.4#
56	63.5	42.3	63.5

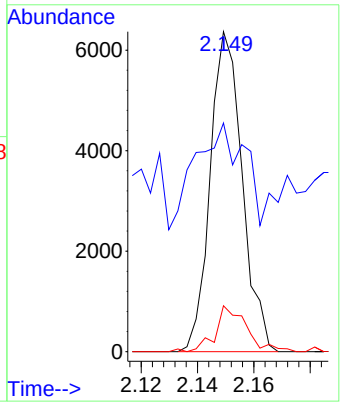




#27
Carbon Disulfide
Concen: 0.362 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 76 Resp: 502

Ion	Ratio	Lower	Upper
76	100		
44	87.8	16.1	24.1
78	14.3	9.6	14.4



Instrument :
MSVOA_L
ClientSampleId :
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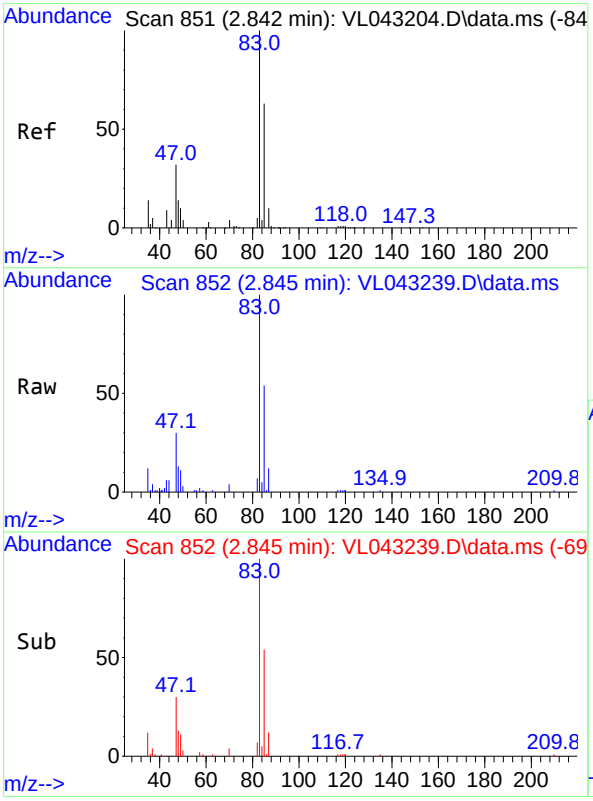
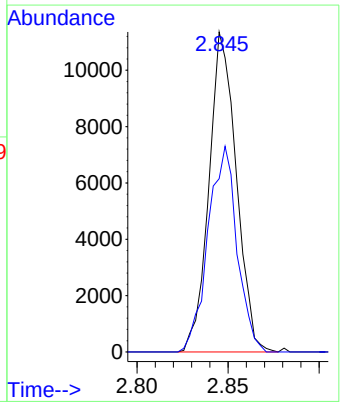
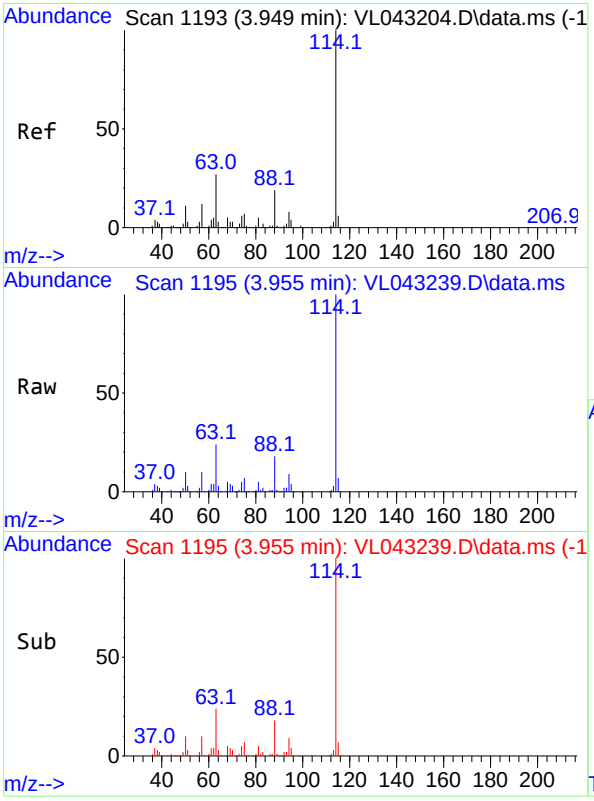


#29
Chloroform
Concen: 0.614 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 83 Resp: 11863

Ion	Ratio	Lower	Upper
83	100		
85	54.1	50.5	75.7

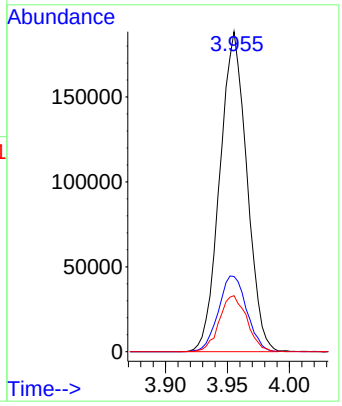




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion:114 Resp: 28577

Ion	Ratio	Lower	Upper
114	100		
63	24.8	21.0	31.6
88	17.9	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

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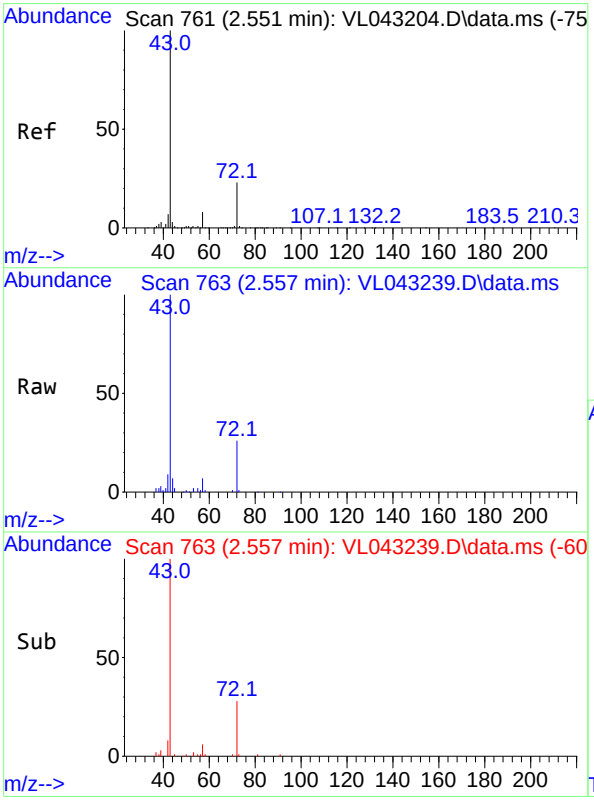
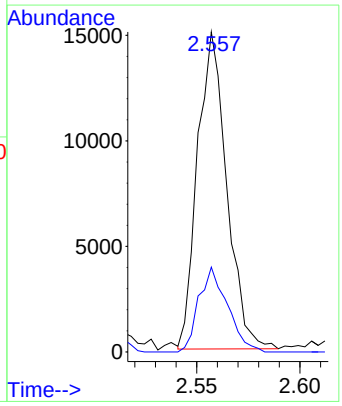
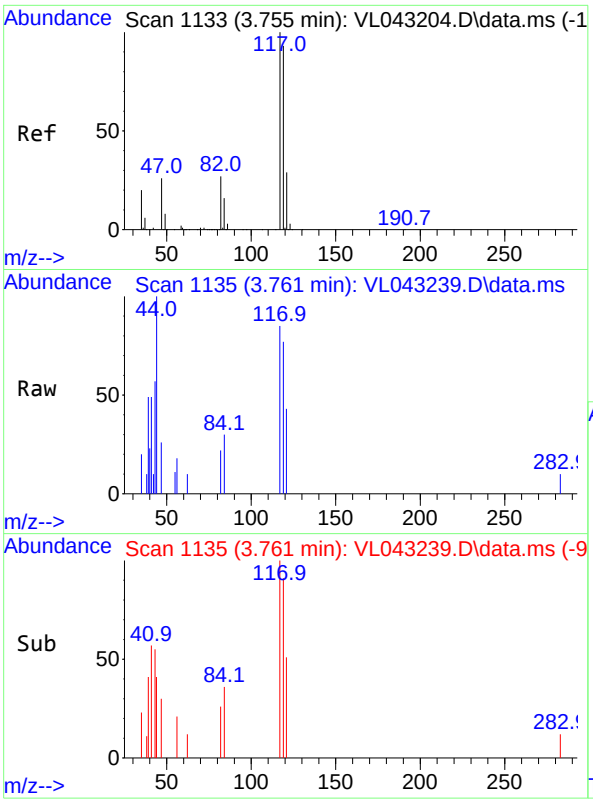


#34
2-Butanone
Concen: 0.734 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 43 Resp: 14813

Ion	Ratio	Lower	Upper
43	100		
72	26.2	18.1	27.1

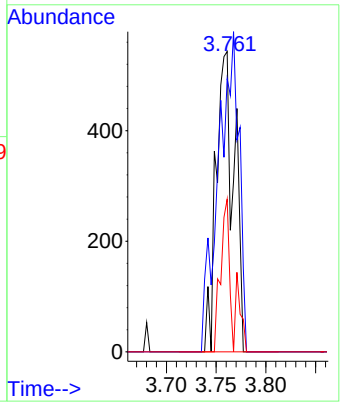




#35
Carbon Tetrachloride
Concen: 0.032 ppbv m
RT: 3.761 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion:117 Resp: 68

Ion	Ratio	Lower	Upper
117	100		
119	91.0	74.6	112.0
121	50.8	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

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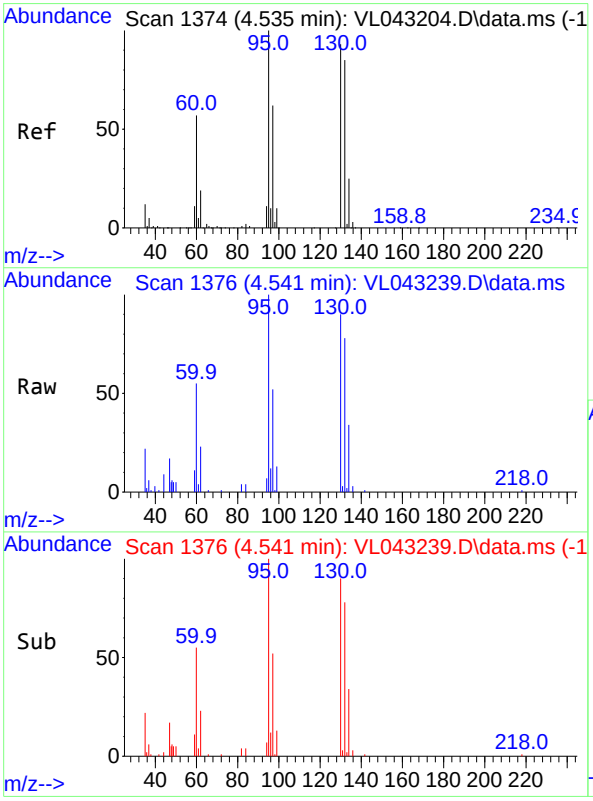
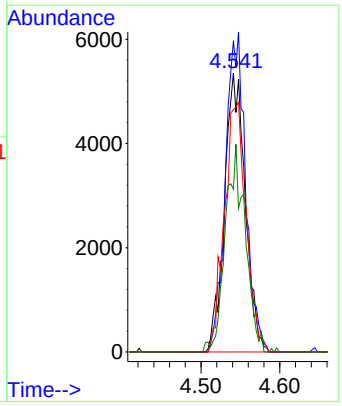
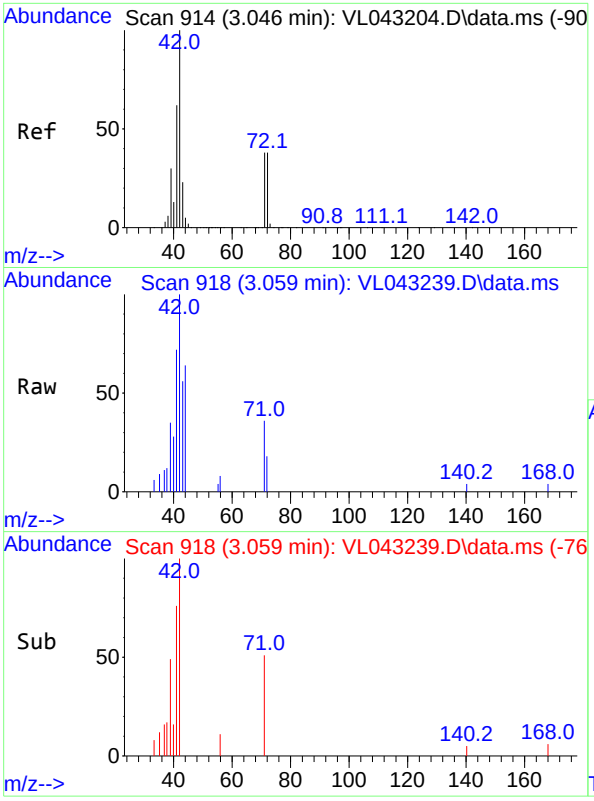


#38
Trichloroethene
Concen: 0.913 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion:130 Resp: 9779

Ion	Ratio	Lower	Upper
130	100		
95	111.6	85.7	128.5
132	86.9	73.4	110.0
97	58.4	52.7	79.1

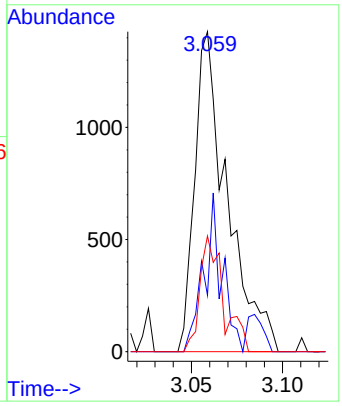




#41
Tetrahydrofuran
Concen: 0.158 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 42 Resp: 176

Ion	Ratio	Lower	Upper
42	100		
72	33.1	30.6	46.0
71	26.1	30.5	45.7



Instrument :
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ClientSampleId :
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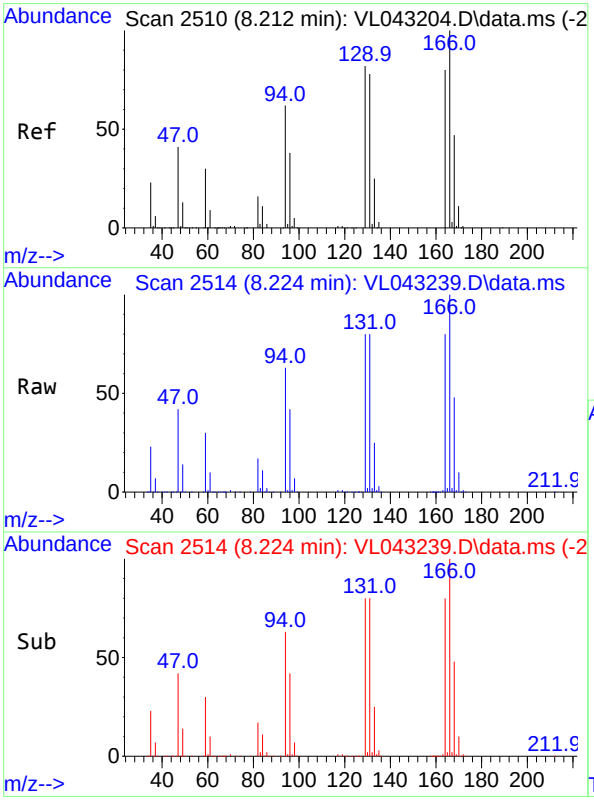
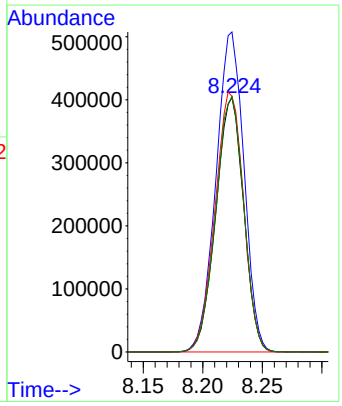
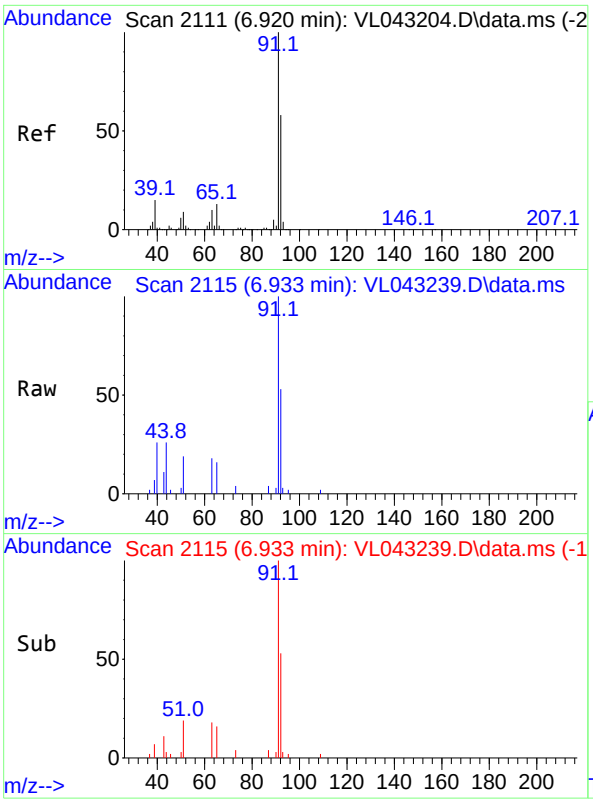


#52
Tetrachloroethene
Concen: 64.467 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. 0.013 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion:164 Resp: 656288

Ion	Ratio	Lower	Upper
164	100		
166	125.7	99.4	149.2
129	100.4	81.8	122.8
131	100.3	77.4	116.2

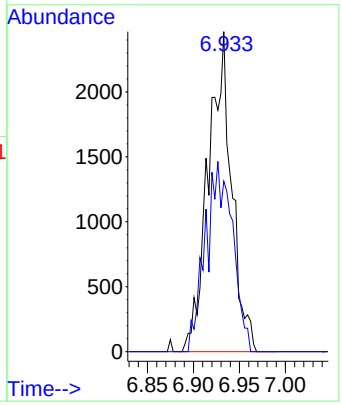




#53
Toluene
Concen: 0.134 ppbv m
RT: 6.933 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 91 Resp: 434

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.0#



Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

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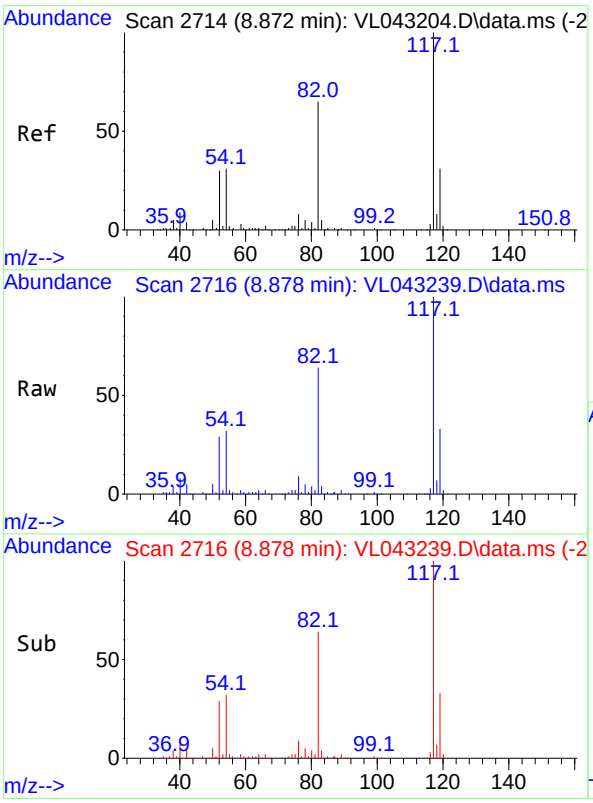
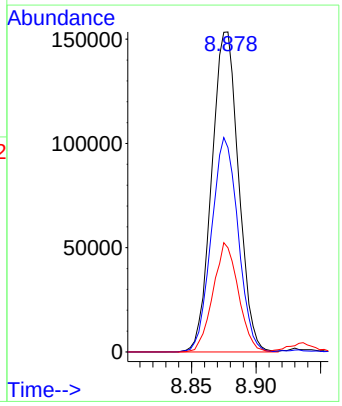
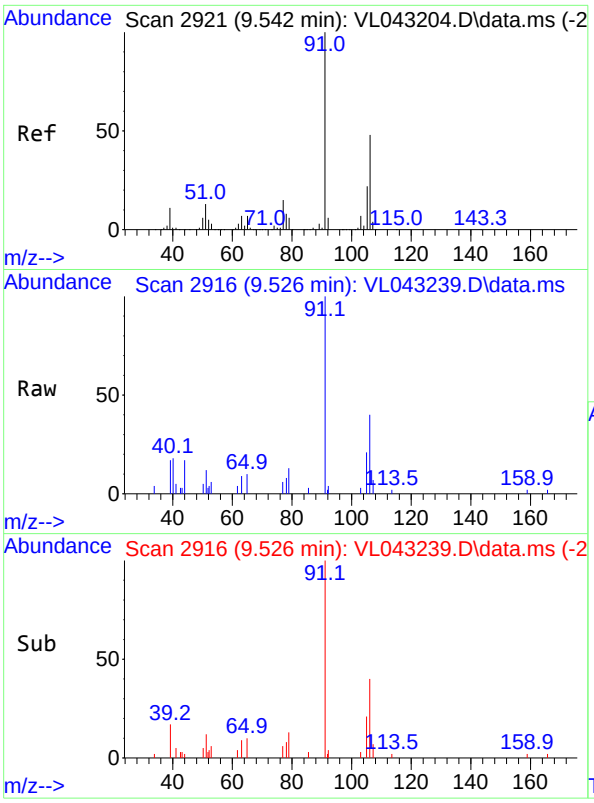


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion:117 Resp: 221762

Ion	Ratio	Lower	Upper
117	100		
82	66.8	56.1	84.1
119	32.3	25.0	37.6

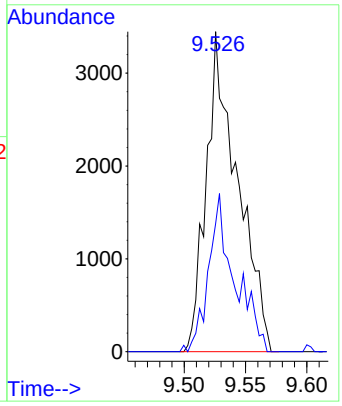




#59
m/p-Xylene
Concen: 0.179 ppbv m
RT: 9.526 min Scan# 2
Delta R.T. -0.017 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 91 Resp: 611

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#



Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

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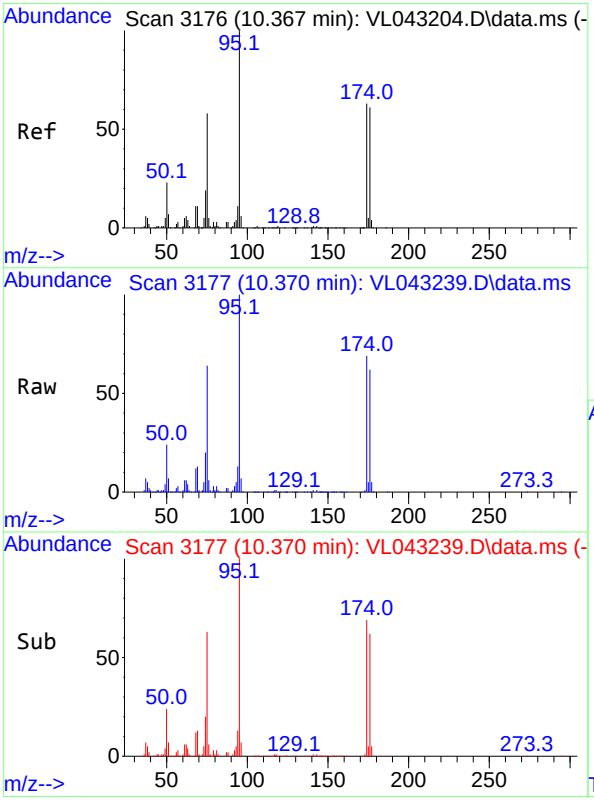
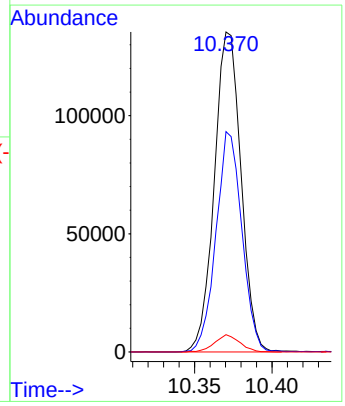
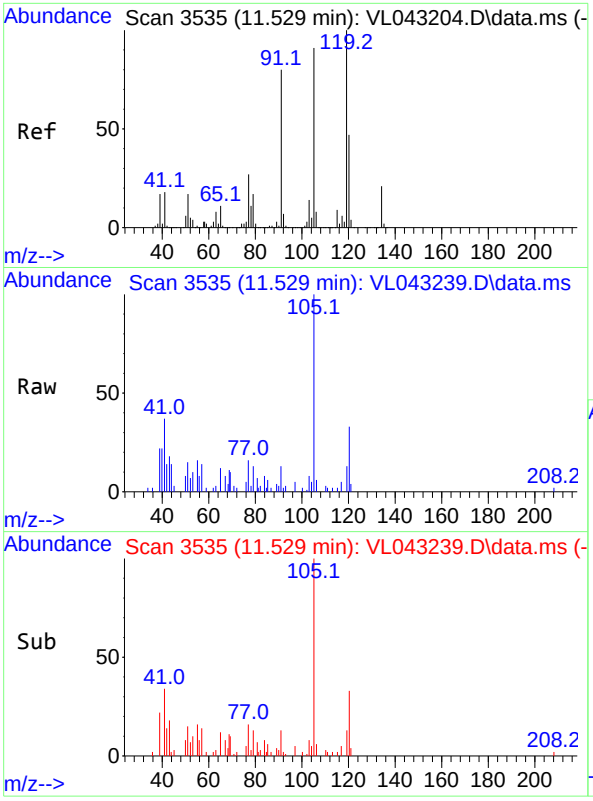


#68
1-Bromo-4-Fluorobenzene
Concen: 9.979 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 95 Resp: 162206

Ion	Ratio	Lower	Upper
95	100		
174	67.0	50.2	75.2
175	5.1	4.1	6.1

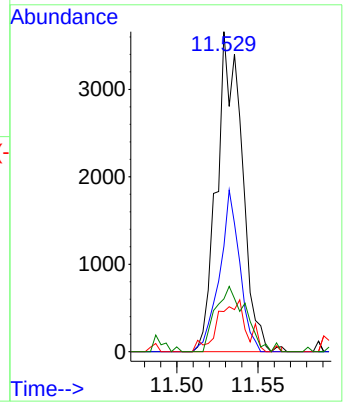




#74
1,2,4-Trimethylbenzene
Concen: 0.104 ppbv m
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion:105 Resp: 395

Ion	Ratio	Lower	Upper
105	100		
120	33.0	41.7	62.5#
91	12.6	70.0	105.0#
77	16.5	23.8	35.8#



Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	10-SG-1DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	2.20	10.9	UD	20	10.9	49.5	11/19/25 22:07	VL111925
74-87-3	Chloromethane	2.00	4.13	UD	20	4.13	20.6	11/19/25 22:07	VL111925
75-01-4	Vinyl Chloride	0.50	1.28	UD	20	1.28	1.53	11/19/25 22:07	VL111925
74-83-9	Bromomethane	1.50	5.82	UD	20	5.82	38.8	11/19/25 22:07	VL111925
75-00-3	Chloroethane	3.00	7.92	UD	20	7.92	26.4	11/19/25 22:07	VL111925
109-99-9	Tetrahydrofuran	1.60	4.72	UD	20	4.72	29.5	11/19/25 22:07	VL111925
75-69-4	Trichlorofluoromethane	3.40	19.1	UD	20	19.1	56.2	11/19/25 22:07	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	2.80	21.5	UD	20	21.5	76.7	11/19/25 22:07	VL111925
76-14-2	Dichlorotetrafluoroethane	3.00	21.0	UD	20	21.0	69.9	11/19/25 22:07	VL111925
75-65-0	tert-Butyl alcohol	3.20	9.70	UD	20	9.70	30.3	11/19/25 22:07	VL111925
142-82-5	Heptane	3.40	13.9	UD	20	13.9	41.0	11/19/25 22:07	VL111925
75-35-4	1,1-Dichloroethene	3.00	11.9	UD	20	11.9	39.6	11/19/25 22:07	VL111925
67-64-1	Acetone	210	499	D	20	8.55	23.8	11/19/25 22:07	VL111925
75-15-0	Carbon Disulfide	1.60	4.98	UD	20	4.98	31.1	11/19/25 22:07	VL111925
1634-04-4	Methyl tert-Butyl Ether	4.60	16.6	UD	20	16.6	36.0	11/19/25 22:07	VL111925
75-09-2	Methylene Chloride	4.60	16.0	UD	20	16.0	34.7	11/19/25 22:07	VL111925
156-60-5	trans-1,2-Dichloroethene	2.40	9.52	UD	20	9.52	39.6	11/19/25 22:07	VL111925
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	20	10.5	40.5	11/19/25 22:07	VL111925
110-82-7	Cyclohexane	4.40	15.2	UD	20	15.2	34.4	11/19/25 22:07	VL111925
78-93-3	2-Butanone	2.10	6.19	JD	20	3.24	29.5	11/19/25 22:07	VL111925
56-23-5	Carbon Tetrachloride	0.50	3.15	UD	20	3.15	3.77	11/19/25 22:07	VL111925
156-59-2	cis-1,2-Dichloroethene	2.00	7.93	UD	20	7.93	39.6	11/19/25 22:07	VL111925
67-66-3	Chloroform	1.90	9.28	UD	20	9.28	48.8	11/19/25 22:07	VL111925
71-55-6	1,1,1-Trichloroethane	0.32	1.75	UD	20	1.75	3.27	11/19/25 22:07	VL111925
540-84-1	2,2,4-Trimethylpentane	2.80	13.1	UD	20	13.1	46.7	11/19/25 22:07	VL111925
71-43-2	Benzene	1.60	5.11	UD	20	5.11	31.9	11/19/25 22:07	VL111925
107-06-2	1,2-Dichloroethane	1.90	7.69	UD	20	7.69	40.5	11/19/25 22:07	VL111925
79-01-6	Trichloroethene	2.10	11.3	D	20	2.58	3.22	11/19/25 22:07	VL111925
78-87-5	1,2-Dichloropropane	2.60	12.0	UD	20	12.0	46.2	11/19/25 22:07	VL111925
75-27-4	Bromodichloromethane	1.30	8.71	UD	20	8.71	67.0	11/19/25 22:07	VL111925
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	20	7.79	41.0	11/19/25 22:07	VL111925
108-88-3	Toluene	3.20	12.1	UD	20	12.1	37.7	11/19/25 22:07	VL111925
10061-02-6	t-1,3-Dichloropropene	3.00	13.6	UD	20	13.6	45.4	11/19/25 22:07	VL111925
10061-01-5	cis-1,3-Dichloropropene	2.20	9.99	UD	20	9.99	45.4	11/19/25 22:07	VL111925
79-00-5	1,1,2-Trichloroethane	1.60	8.73	UD	20	8.73	54.6	11/19/25 22:07	VL111925
124-48-1	Dibromochloromethane	1.70	14.5	UD	20	14.5	85.2	11/19/25 22:07	VL111925
106-93-4	1,2-Dibromoethane	1.70	13.1	UD	20	13.1	15.4	11/19/25 22:07	VL111925
127-18-4	Tetrachloroethene	130	882	D	20	2.03	4.07	11/19/25 22:07	VL111925
108-90-7	Chlorobenzene	1.50	6.91	UD	20	6.91	46.0	11/19/25 22:07	VL111925
100-41-4	Ethyl Benzene	3.80	16.5	UD	20	16.5	43.4	11/19/25 22:07	VL111925
179601-23-1	m/p-Xylene	8.20	35.6	UD	20	35.6	86.9	11/19/25 22:07	VL111925
95-47-6	o-Xylene	4.20	18.2	UD	20	18.2	43.4	11/19/25 22:07	VL111925
100-42-5	Styrene	3.20	13.6	UD	20	13.6	42.6	11/19/25 22:07	VL111925
75-25-2	Bromoform	0.96	9.93	UD	20	9.93	103	11/19/25 22:07	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.36	2.47	UD	20	2.47	4.12	11/19/25 22:07	VL111925
95-49-8	2-Chlorotoluene	3.40	17.6	UD	20	17.6	51.8	11/19/25 22:07	VL111925

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Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	10-SG-1DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	3.60	17.7	UD	20	17.7	49.2	11/19/25 22:07	VL111925
95-63-6	1,2,4-Trimethylbenzene	3.60	17.7	UD	20	17.7	49.2	11/19/25 22:07	VL111925
541-73-1	1,3-Dichlorobenzene	1.10	6.61	UD	20	6.61	60.1	11/19/25 22:07	VL111925
106-46-7	1,4-Dichlorobenzene	2.60	15.6	UD	20	15.6	60.1	11/19/25 22:07	VL111925
95-50-1	1,2-Dichlorobenzene	2.60	15.6	UD	20	15.6	60.1	11/19/25 22:07	VL111925
120-82-1	1,2,4-Trichlorobenzene	4.20	31.2	UD	20	31.2	74.2	11/19/25 22:07	VL111925
87-68-3	Hexachloro-1,3-Butadiene	2.60	27.7	UD	20	27.7	107	11/19/25 22:07	VL111925
106-99-0	1,3-Butadiene	1.00	2.21	UD	20	2.21	22.1	11/19/25 22:07	VL111925
91-20-3	Naphthalene	0.26	1.36	UD	20	1.36	10.5	11/19/25 22:07	VL111925
622-96-8	4-Ethyltoluene	4.20	20.6	UD	20	20.6	49.2	11/19/25 22:07	VL111925
110-54-3	Hexane	3.20	11.3	UD	20	11.3	35.2	11/19/25 22:07	VL111925
107-05-1	Allyl Chloride	2.20	6.89	UD	20	6.89	31.3	11/19/25 22:07	VL111925
123-91-1	1,4-Dioxane	4.40	15.9	UD	20	15.9	36.0	11/19/25 22:07	VL111925
80-62-6	Methyl Methacrylate	2.80	11.5	UD	20	11.5	41.0	11/19/25 22:07	VL111925
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.40				70 (65) - 130 (135)	94% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	98500							
540-36-3	1,4-Difluorobenzene	260000							
3114-55-4	Chlorobenzene-d5	201000							

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\VL111925\
Data File : VL043251.D
Acq On : 19 Nov 2025 22:07
Operator : SY/MD
Sample : Q3626-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:12:17 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-SG-1DL

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	2.781	49	98540	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	260350	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	200769	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	138896	9.438	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 94.400%			
Target Compounds						Qvalue
13) Ethanol	1.719	45	2156	1.056	ppbv	92
15) Acetone	1.832	43	143219	10.461	ppbv	98
19) Isopropyl Alcohol	1.884	45	29365	3.796	ppbv #	1
34) 2-Butanone	2.557	43	1927m	0.105	ppbv	
38) Trichloroethene	4.532	130	1031m	0.106	ppbv	
52) Tetrachloroethene	8.212	164	61105	6.588	ppbv	97

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

Quantitation Report (QT Reviewed)

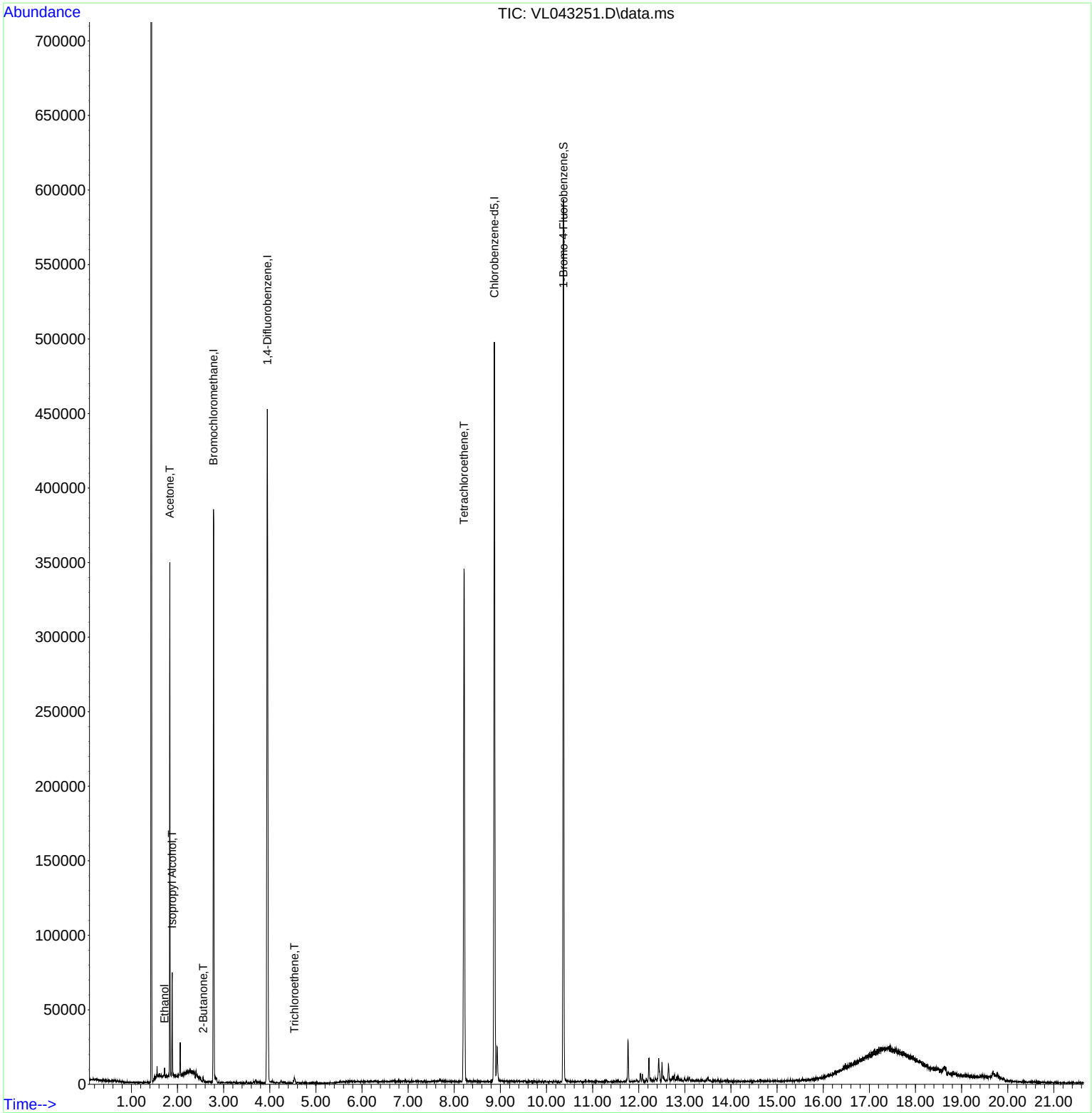
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043251.D
Acq On : 19 Nov 2025 22:07
Operator : SY/MD
Sample : Q3626-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

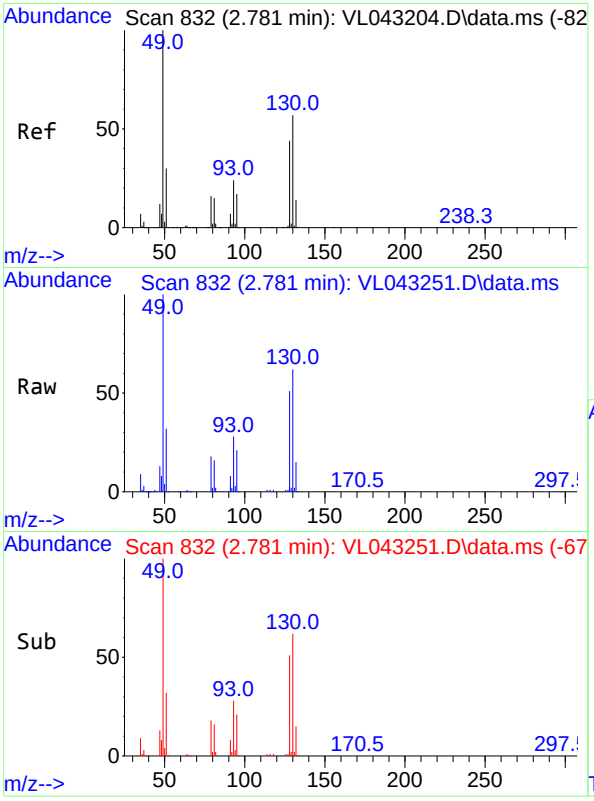
Quant Time: Nov 20 00:12:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

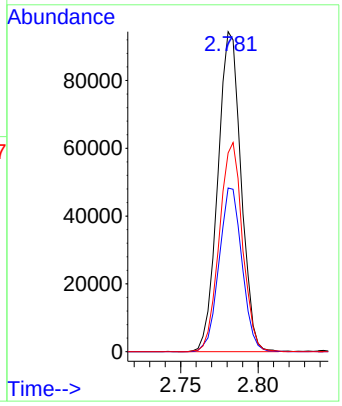




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 49 Resp: 9854

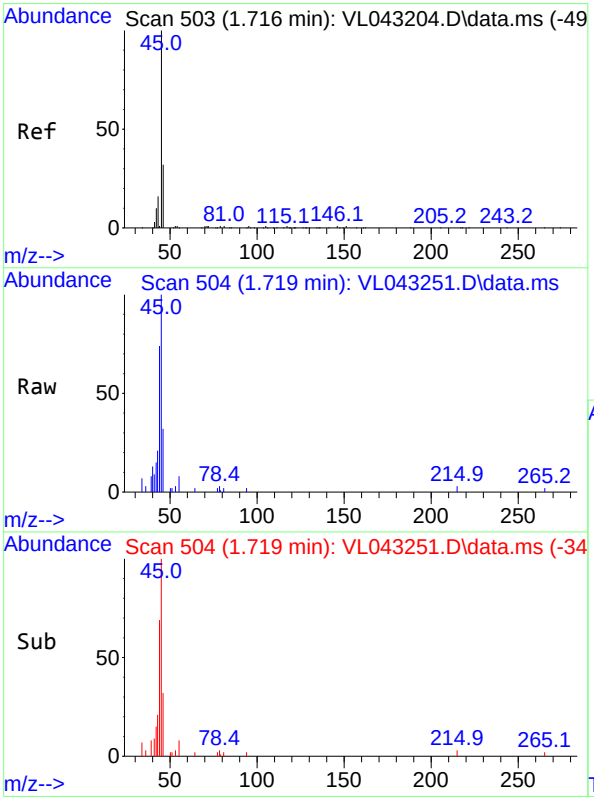
Ion	Ratio	Lower	Upper
49	100		
128	50.6	23.0	69.0
130	65.1	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Manual Integrations
APPROVED

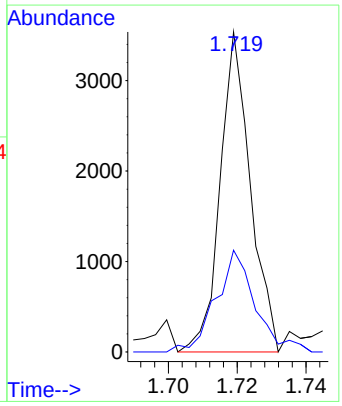
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

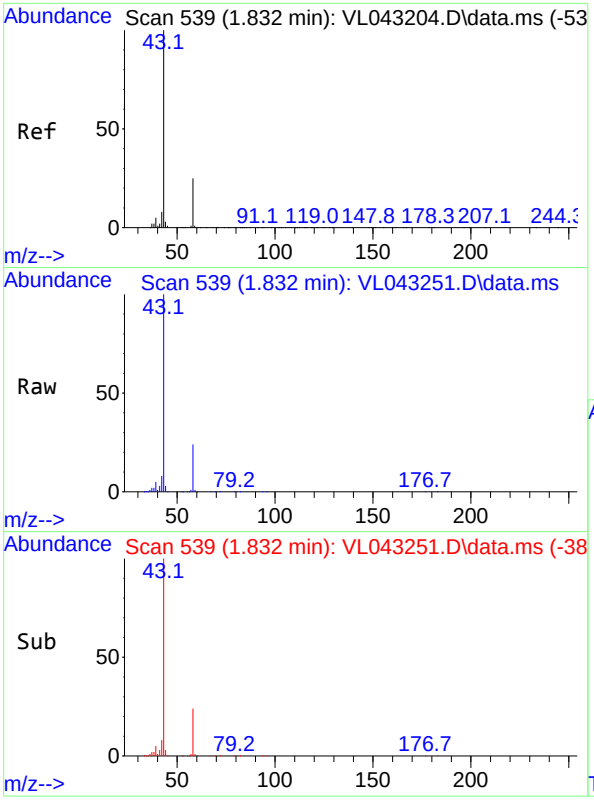


#13
Ethanol
Concen: 1.056 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 45 Resp: 2156

Ion	Ratio	Lower	Upper
45	100		
46	42.1	15.0	59.8

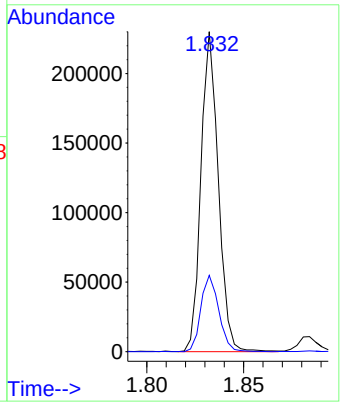




#15
Acetone
Concen: 10.461 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 43 Resp: 14321

Ion	Ratio	Lower	Upper
43	100		
58	24.8	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Manual Integrations
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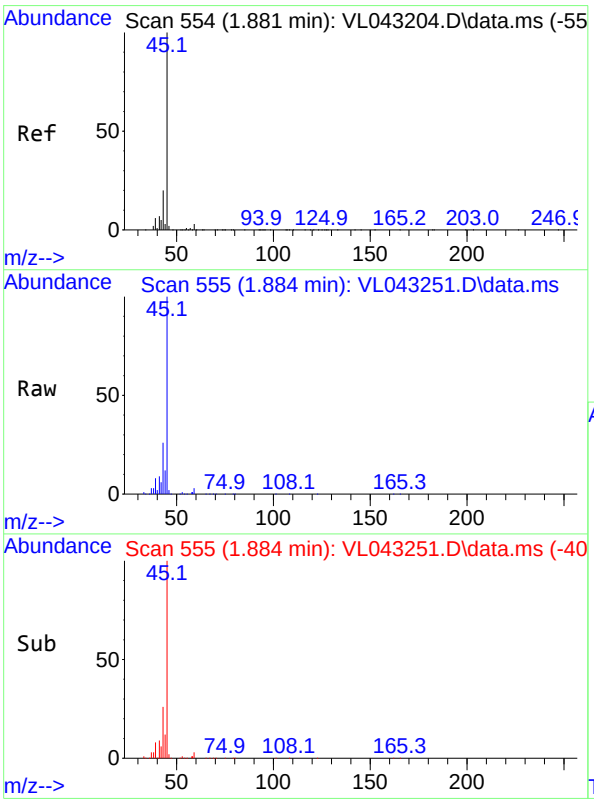
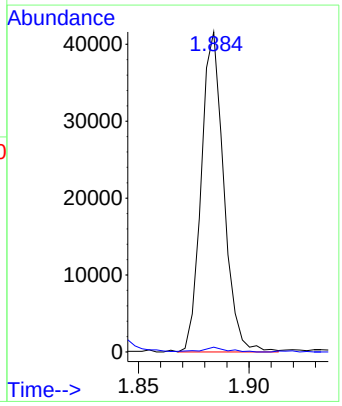
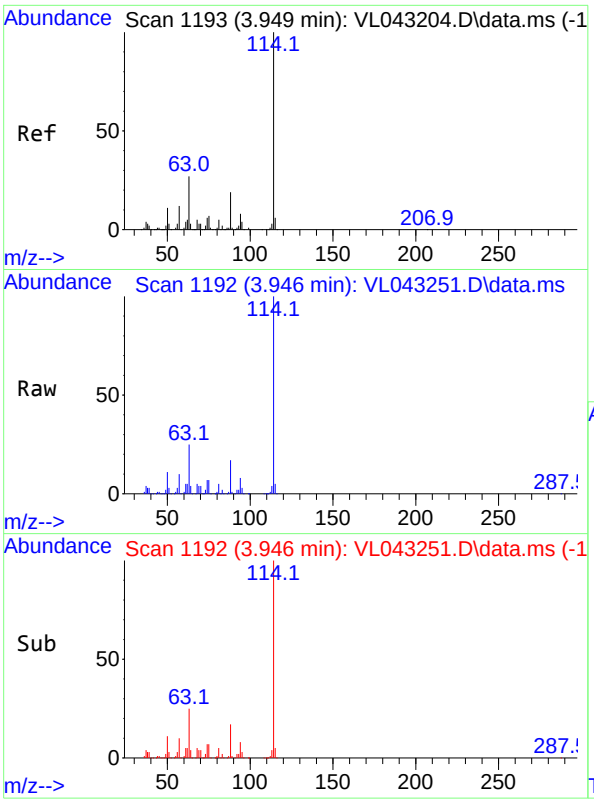


#19
Isopropyl Alcohol
Concen: 3.796 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 45 Resp: 29365

Ion	Ratio	Lower	Upper
45	100		
58	120.7	31.3	46.9#

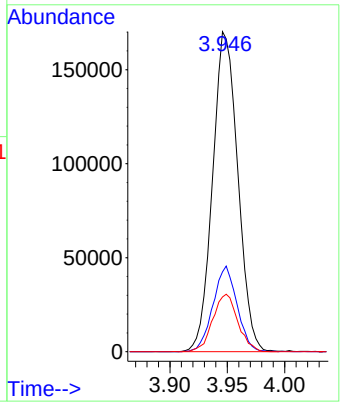




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion:114 Resp: 26035

Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.0	31.6
88	17.9	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
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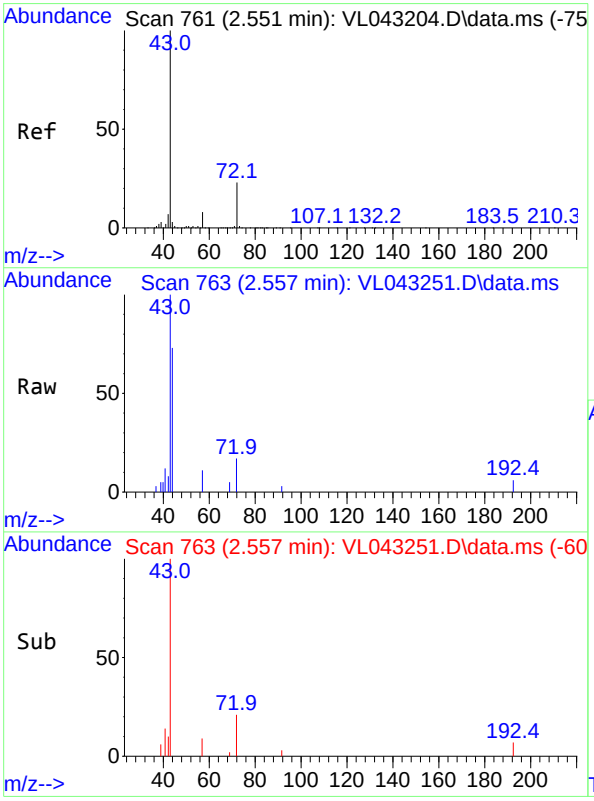
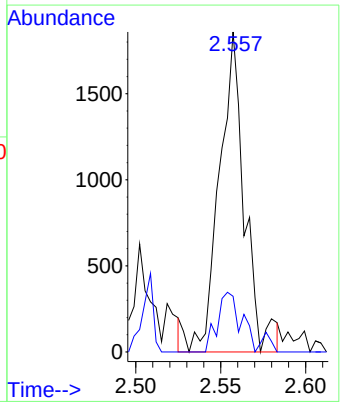
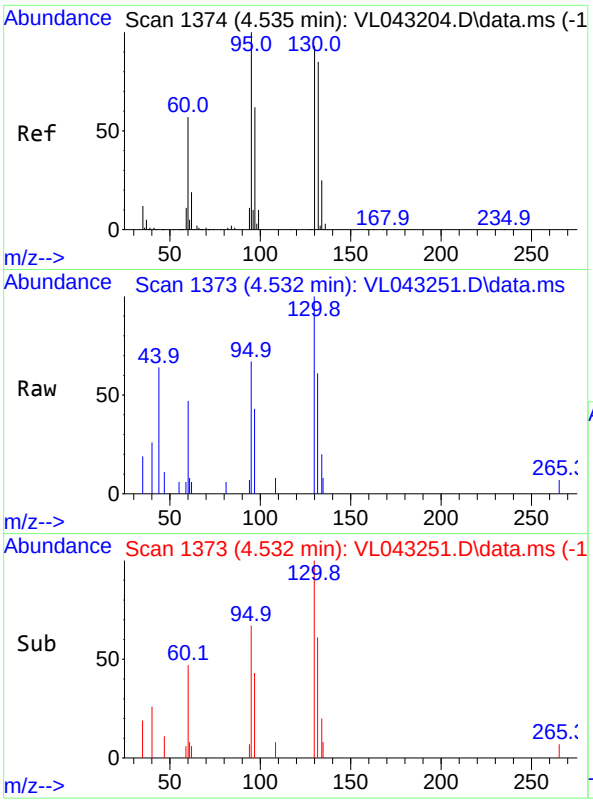


#34
2-Butanone
Concen: 0.105 ppbv m
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 43 Resp: 1927

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.1	27.1#

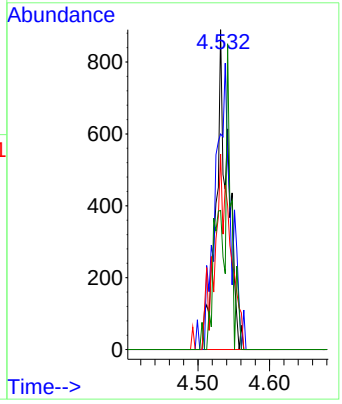




#38
Trichloroethene
Concen: 0.106 ppbv m
RT: 4.532 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion:130 Resp: 103

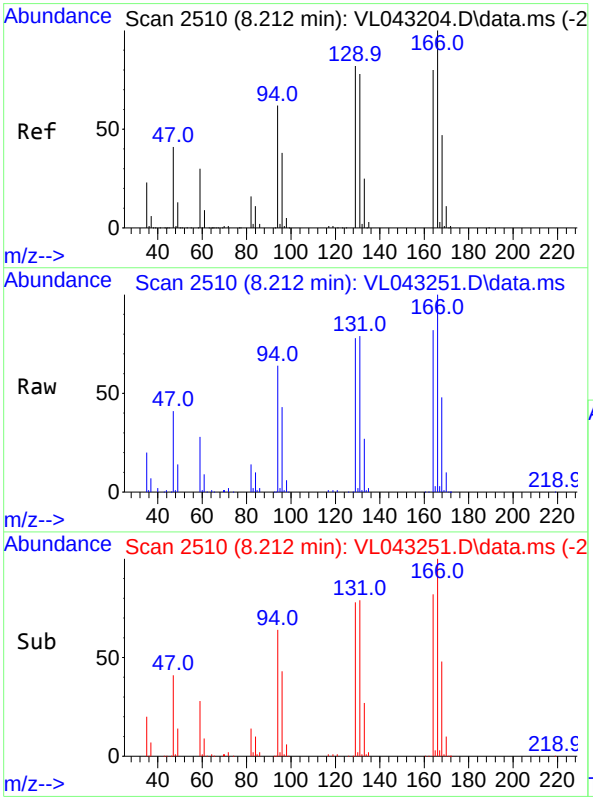
Ion	Ratio	Lower	Upper
130	100		
95	67.4	85.7	128.5#
132	61.1	73.4	110.0#
97	43.5	52.7	79.1#



Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Manual Integrations
APPROVED

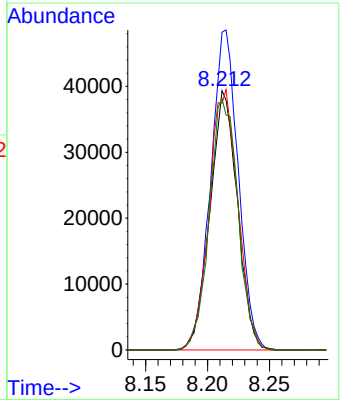
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

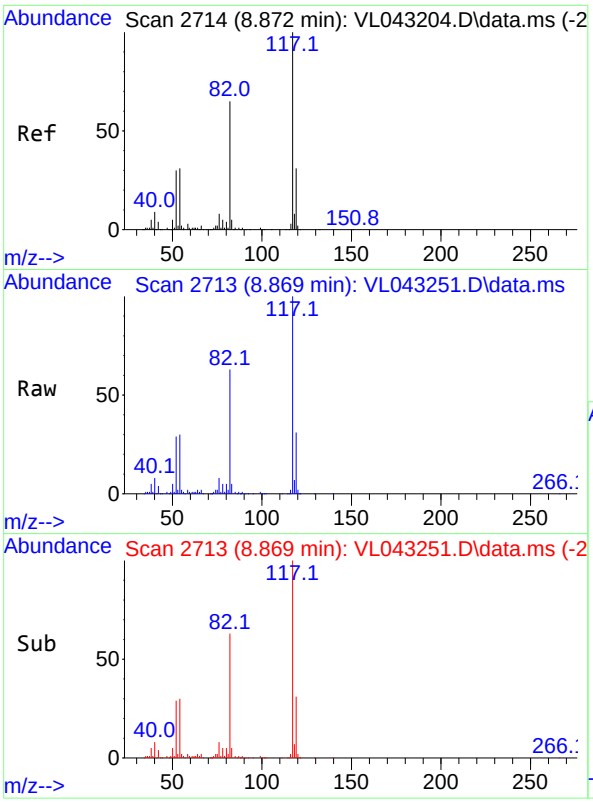


#52
Tetrachloroethene
Concen: 6.588 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion:164 Resp: 61105

Ion	Ratio	Lower	Upper
164	100		
166	122.5	99.4	149.2
129	95.2	81.8	122.8
131	97.0	77.4	116.2

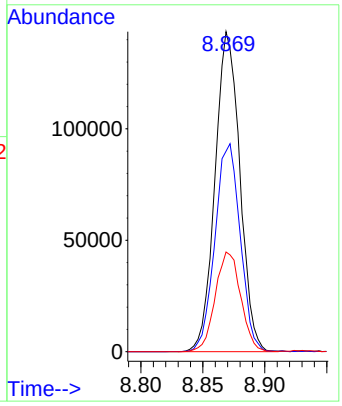




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion:117 Resp: 20076

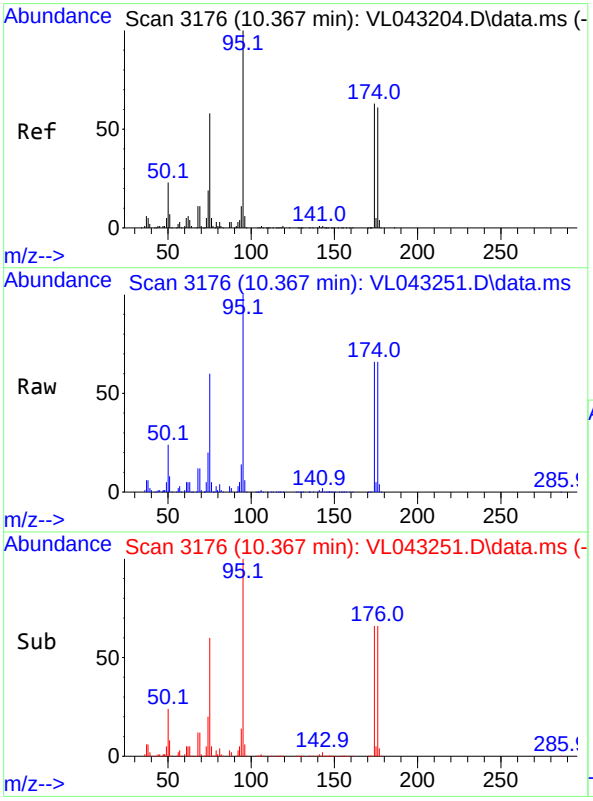
Ion	Ratio	Lower	Upper
117	100		
82	66.3	56.1	84.1
119	32.0	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Manual Integrations
APPROVED

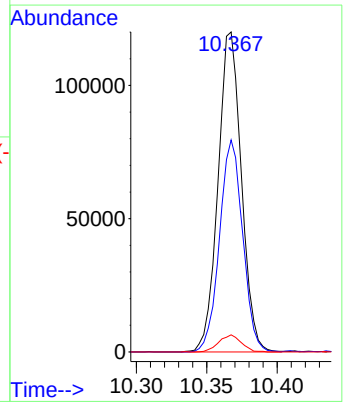
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.438 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 95 Resp: 138896

Ion	Ratio	Lower	Upper
95	100		
174	65.9	50.2	75.2
175	5.2	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:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	11-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-06	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	0.48	2.37	J	2	1.09	4.94	11/19/25 15:32	VL111925
74-87-3	Chloromethane	0.25	0.52	J	2	0.41	2.07	11/19/25 15:32	VL111925
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/19/25 15:32	VL111925
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/19/25 15:32	VL111925
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/19/25 15:32	VL111925
109-99-9	Tetrahydrofuran	0.16	0.47	U	2	0.47	2.95	11/19/25 15:32	VL111925
75-69-4	Trichlorofluoromethane	0.34	1.91	U	2	1.91	5.62	11/19/25 15:32	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/19/25 15:32	VL111925
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/19/25 15:32	VL111925
75-65-0	tert-Butyl alcohol	0.41	1.24	J	2	0.97	3.03	11/19/25 15:32	VL111925
142-82-5	Heptane	0.64	2.62	J	2	1.39	4.10	11/19/25 15:32	VL111925
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/19/25 15:32	VL111925
67-64-1	Acetone	29.2	69.4		2	0.86	2.38	11/19/25 15:32	VL111925
75-15-0	Carbon Disulfide	0.24	0.75	J	2	0.50	3.11	11/19/25 15:32	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/19/25 15:32	VL111925
75-09-2	Methylene Chloride	0.46	1.60	U	2	1.60	3.47	11/19/25 15:32	VL111925
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/19/25 15:32	VL111925
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/19/25 15:32	VL111925
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/19/25 15:32	VL111925
78-93-3	2-Butanone	2.70	7.96		2	0.32	2.95	11/19/25 15:32	VL111925
56-23-5	Carbon Tetrachloride	0.070	0.44		2	0.31	0.38	11/19/25 15:32	VL111925
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/19/25 15:32	VL111925
67-66-3	Chloroform	0.19	0.93	U	2	0.93	4.88	11/19/25 15:32	VL111925
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	2	0.16	0.33	11/19/25 15:32	VL111925
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/19/25 15:32	VL111925
71-43-2	Benzene	25.6	81.8		2	0.51	3.19	11/19/25 15:32	VL111925
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/19/25 15:32	VL111925
79-01-6	Trichloroethene	0.47	2.53		2	0.27	0.32	11/19/25 15:32	VL111925
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/19/25 15:32	VL111925
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/19/25 15:32	VL111925
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	U	2	0.78	4.10	11/19/25 15:32	VL111925
108-88-3	Toluene	0.72	2.71	J	2	1.21	3.77	11/19/25 15:32	VL111925
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/19/25 15:32	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/19/25 15:32	VL111925
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/19/25 15:32	VL111925
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/19/25 15:32	VL111925
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/19/25 15:32	VL111925
127-18-4	Tetrachloroethene	6.70	45.4		2	0.20	0.41	11/19/25 15:32	VL111925
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/19/25 15:32	VL111925
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/19/25 15:32	VL111925
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/19/25 15:32	VL111925
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/19/25 15:32	VL111925
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/19/25 15:32	VL111925
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/19/25 15:32	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/19/25 15:32	VL111925
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/19/25 15:32	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	11-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-06	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	0.36	1.77	U	2	1.77	4.92	11/19/25 15:32	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 15:32	VL111925
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/19/25 15:32	VL111925
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 15:32	VL111925
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 15:32	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/19/25 15:32	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/19/25 15:32	VL111925
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/19/25 15:32	VL111925
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/19/25 15:32	VL111925
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/19/25 15:32	VL111925
110-54-3	Hexane	1.80	6.34		2	1.13	3.52	11/19/25 15:32	VL111925
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/19/25 15:32	VL111925
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/19/25 15:32	VL111925
80-62-6	Methyl Methacrylate	0.46	1.88	J	2	1.15	4.09	11/19/25 15:32	VL111925
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	106000							
540-36-3	1,4-Difluorobenzene	288000							
3114-55-4	Chlorobenzene-d5	236000							

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\VL111925\
Data File : VL043240.D
Acq On : 19 Nov 2025 15:32
Operator : SY/MD
Sample : Q3626-06 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:06:04 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-SG-1

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	2.781	49	105671	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	288442	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	236337	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	169578	9.789	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3553	0.238	ppbv		98
3) Chlorodifluoromethane	1.476	51	1794m	0.122	ppbv		
4) Chloromethane	1.531	50	697	0.125	ppbv	#	78
9) Propene	1.486	41	1617	0.260	ppbv	#	1
10) Heptane	4.965	43	5910	0.319	ppbv		95
11) Trichlorofluoromethane	1.874	101	2045m	0.142	ppbv		
13) Ethanol	1.719	45	25998	11.879	ppbv		97
15) Acetone	1.832	43	214462	14.608	ppbv		99
17) tert-Butyl alcohol	2.040	59	3964	0.206	ppbv	#	93
19) Isopropyl Alcohol	1.884	45	51636	6.224	ppbv	#	1
20) Methylene Chloride	2.059	84	4300	0.227	ppbv	#	85
26) Hexane	2.820	57	12616	0.909	ppbv	#	43
27) Carbon Disulfide	2.146	76	1693	0.119	ppbv	#	1
30) Cyclohexane	3.842	84	1429	0.123	ppbv	#	64
34) 2-Butanone	2.551	43	27468	1.349	ppbv		97
35) Carbon Tetrachloride	3.758	117	766m	0.035	ppbv		
36) Benzene	3.648	78	354025	12.816	ppbv		98
38) Trichloroethene	4.538	130	2561m	0.237	ppbv		
43) Methyl Methacrylate	4.872	69	3363	0.229	ppbv		96
52) Tetrachloroethene	8.212	164	34435	3.351	ppbv		94
53) Toluene	6.924	91	11796m	0.361	ppbv		
59) m/p-Xylene	9.523	91	6964m	0.191	ppbv		
62) Isopropylbenzene	10.532	105	120610	1.850	ppbv		99

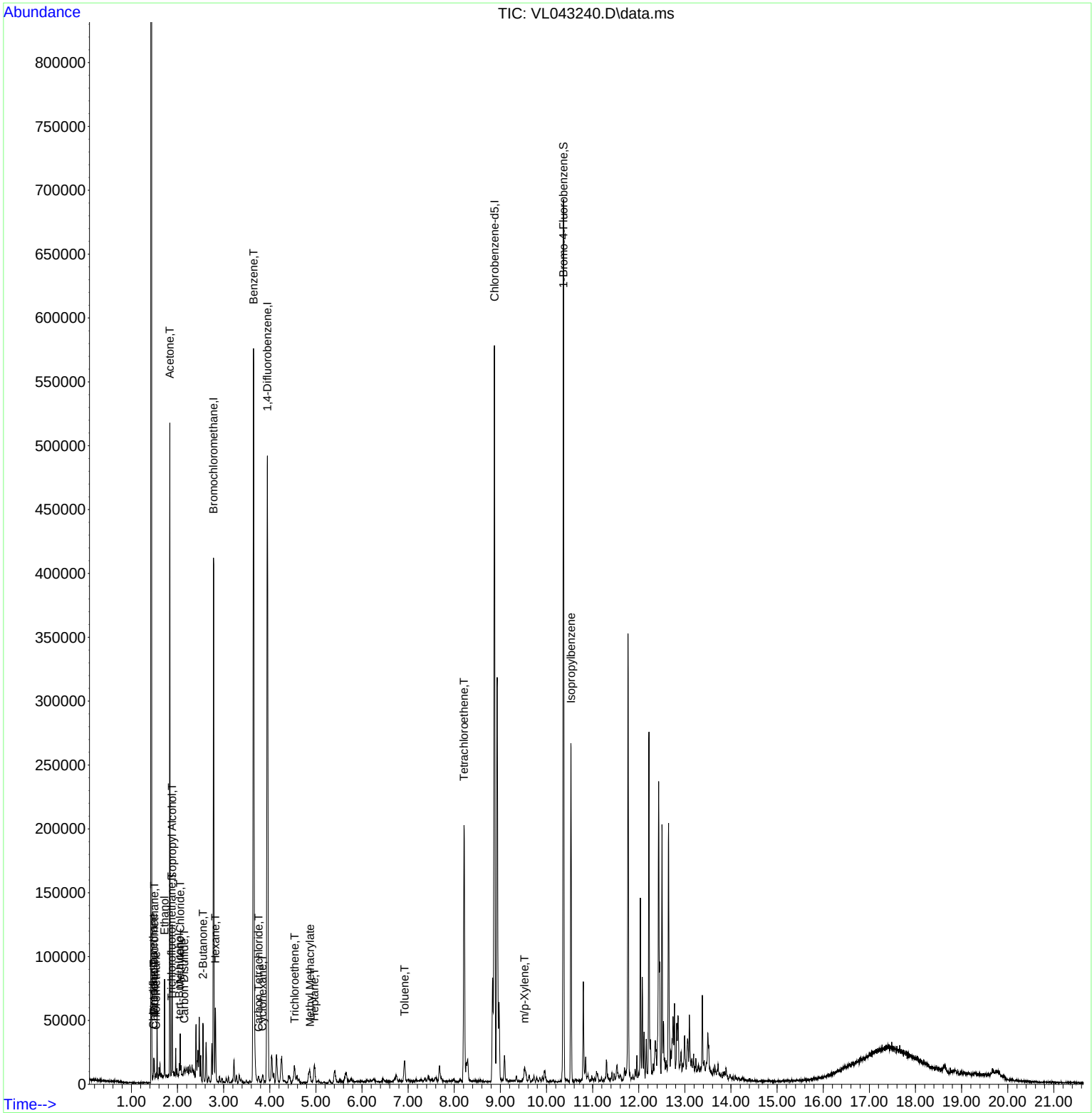
(#) = qualifier out of range (m) = manual integration (+) = signals summed

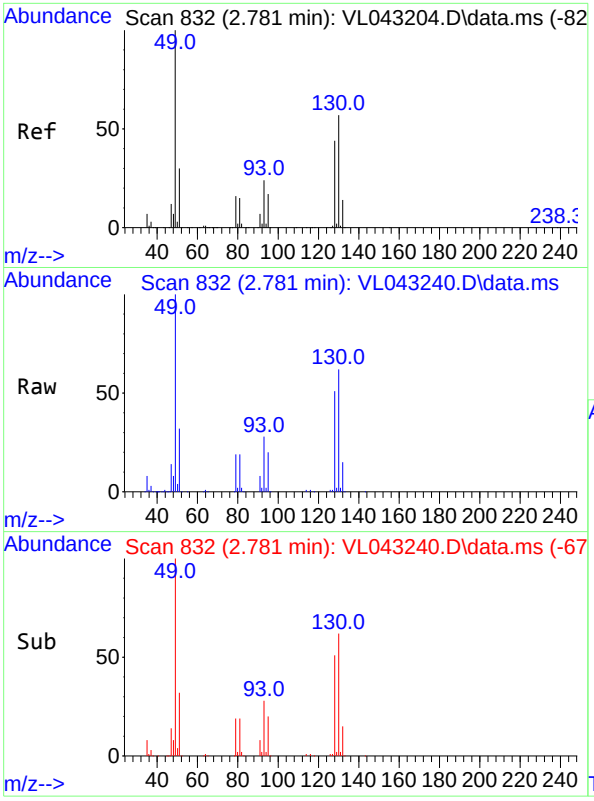
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043240.D
Acq On : 19 Nov 2025 15:32
Operator : SY/MD
Sample : Q3626-06 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:06:04 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-SG-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

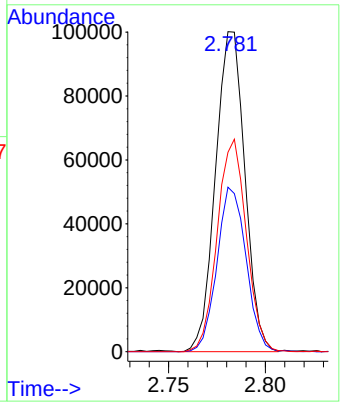




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 49 Resp: 10567

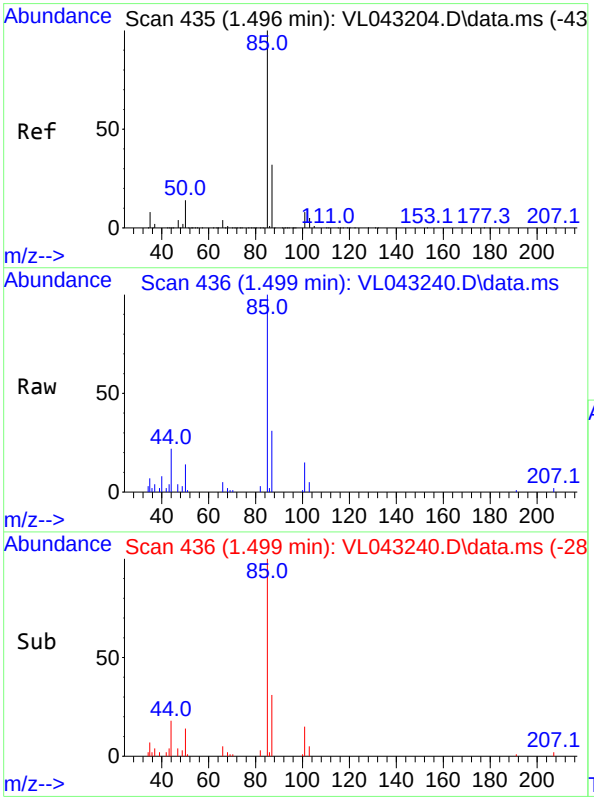
Ion	Ratio	Lower	Upper
49	100		
128	50.9	23.0	69.0
130	65.8	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Manual Integrations
APPROVED

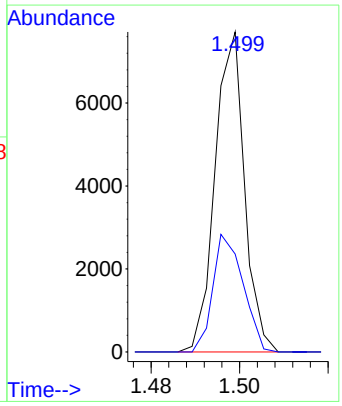
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

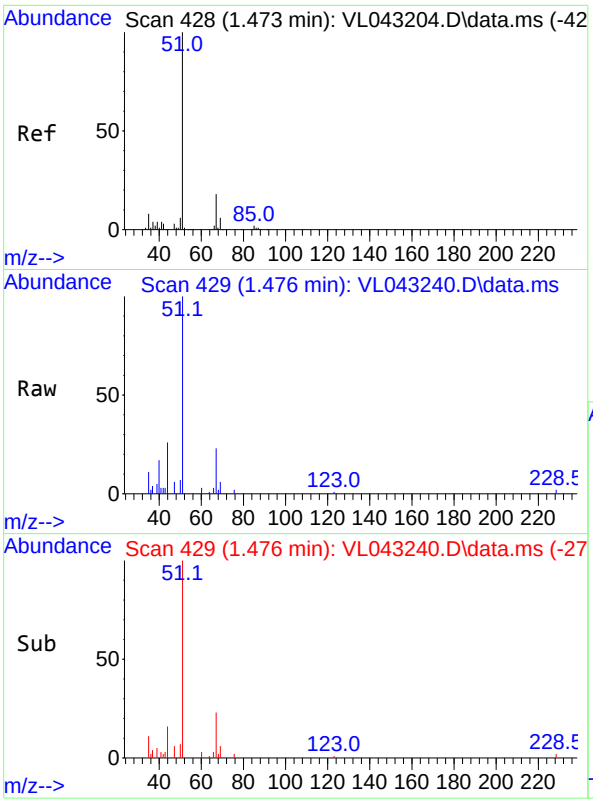


#2
Dichlorodifluoromethane
Concen: 0.238 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 85 Resp: 3553

Ion	Ratio	Lower	Upper
85	100		
87	30.6	25.4	38.2





#3
Chlorodifluoromethane
Concen: 0.122 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

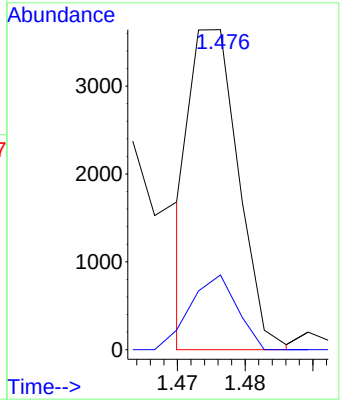
Tgt Ion: 51 Resp: 179

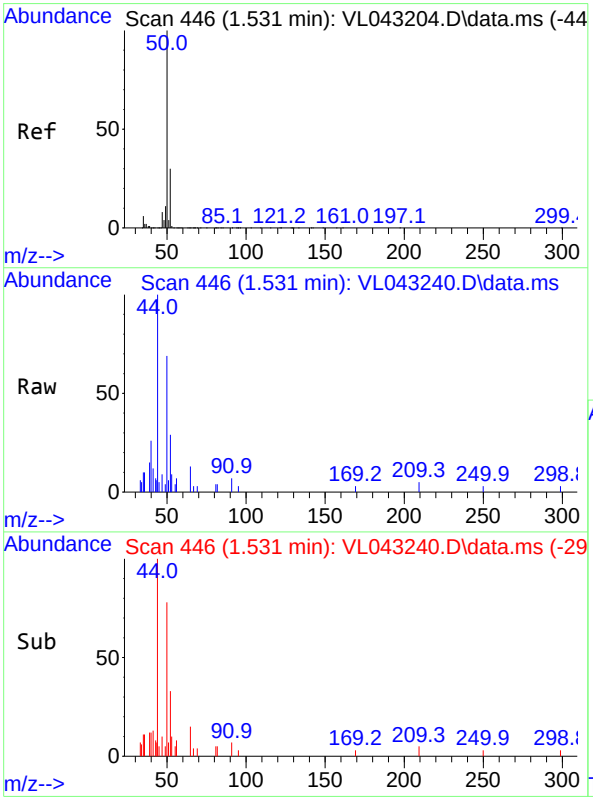
Ion	Ratio	Lower	Upper
51	100		
67	22.9	14.9	22.3#

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

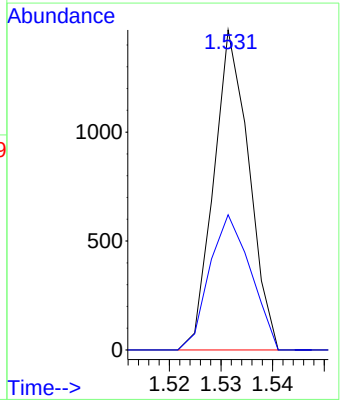


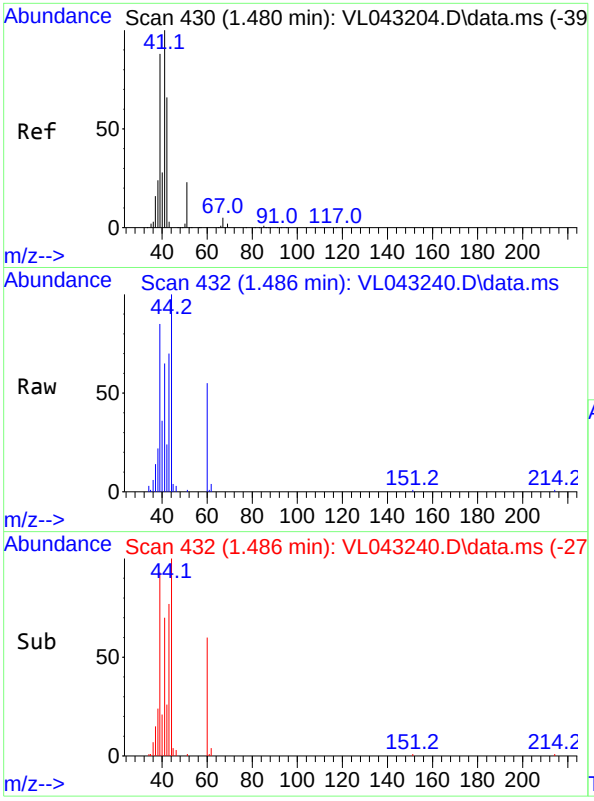


#4
Chloromethane
Concen: 0.125 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 50 Resp: 697

Ion	Ratio	Lower	Upper
50	100		
52	42.3	24.1	36.1#

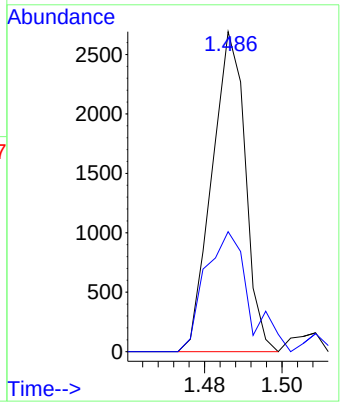




#9
Propene
Concen: 0.260 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 41 Resp: 161

Ion	Ratio	Lower	Upper
41	100		
42	53.8	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
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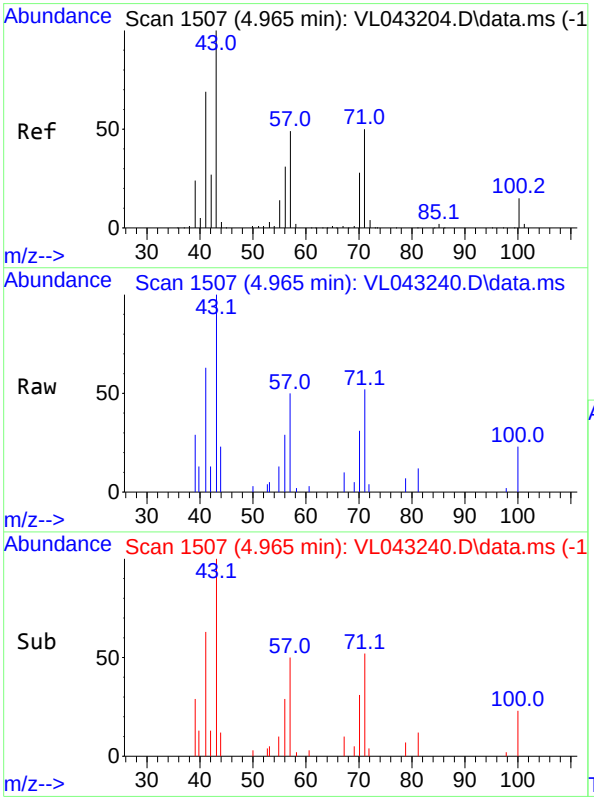
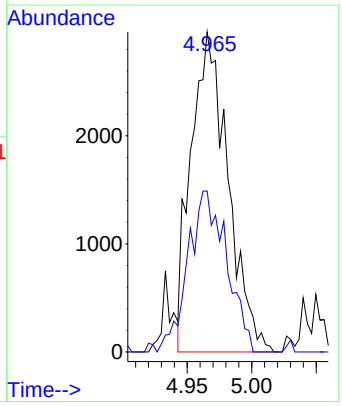
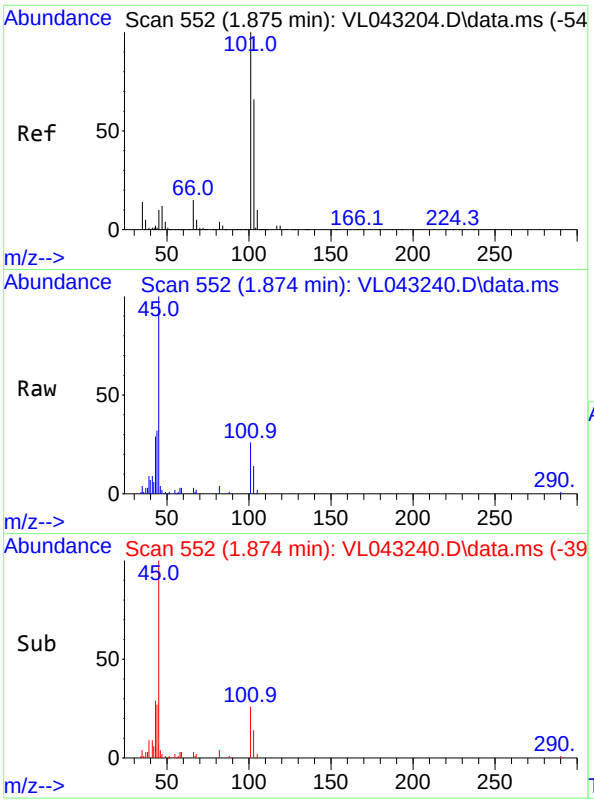


#10
Heptane
Concen: 0.319 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 43 Resp: 5910

Ion	Ratio	Lower	Upper
43	100		
57	52.8	39.7	59.5





#11
Trichlorofluoromethane
Concen: 0.142 ppbv m
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion:101 Resp: 204

Ion	Ratio	Lower	Upper
101	100		
103	52.1	52.6	79.0#

Instrument :
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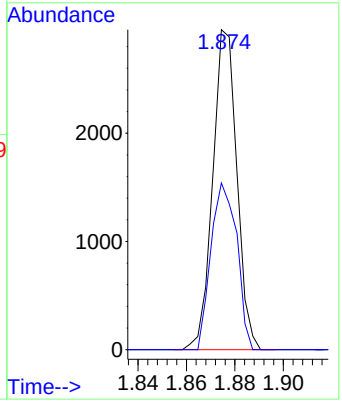
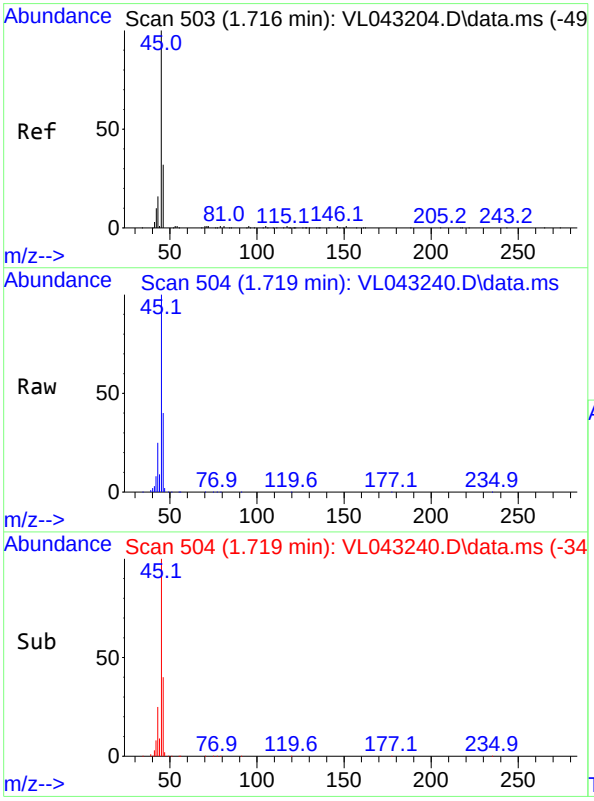
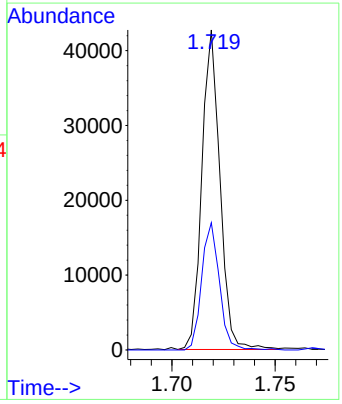


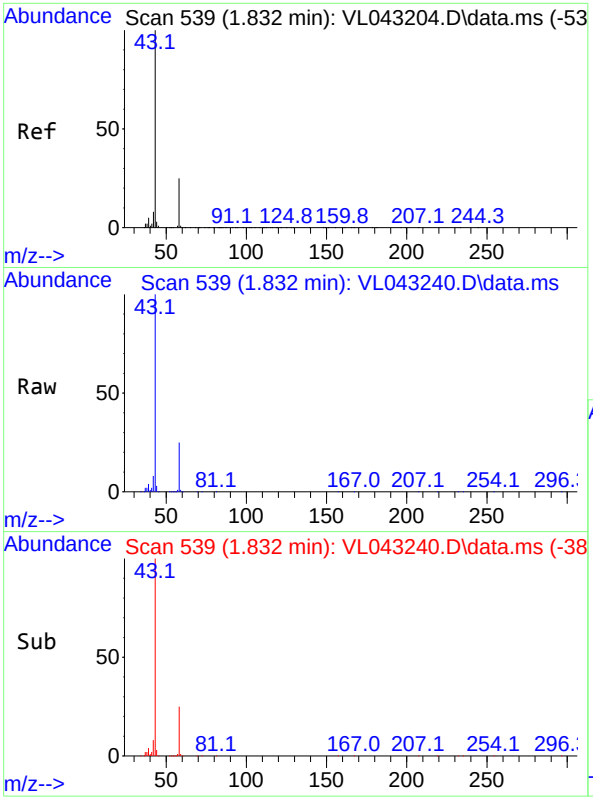


#13
Ethanol
Concen: 11.879 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 45 Resp: 25998

Ion	Ratio	Lower	Upper
45	100		
46	39.1	15.0	59.8

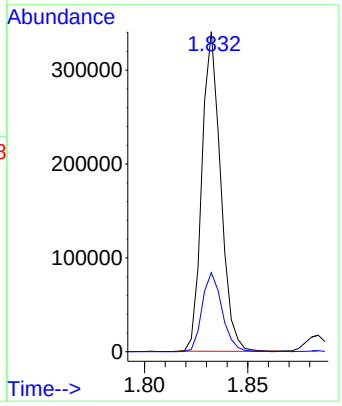




#15
Acetone
Concen: 14.608 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 43 Resp: 21446

Ion	Ratio	Lower	Upper
43	100		
58	26.4	20.7	31.1



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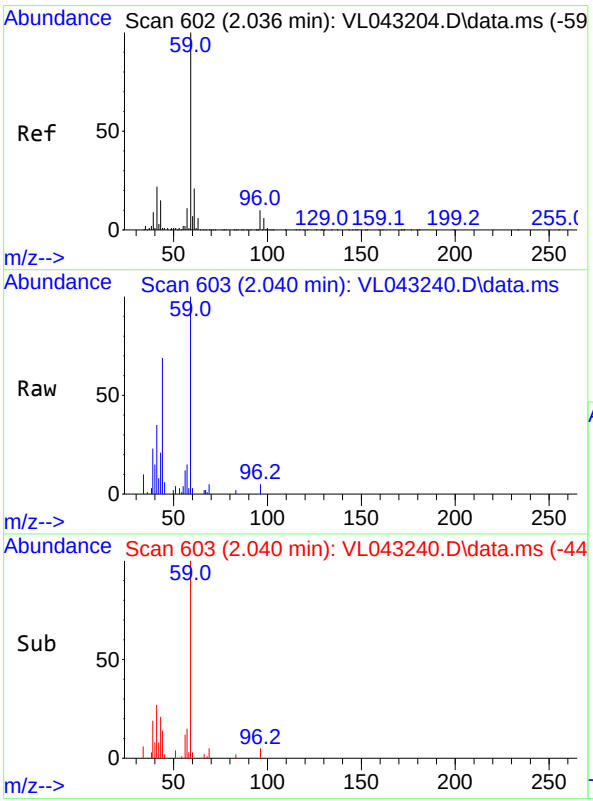
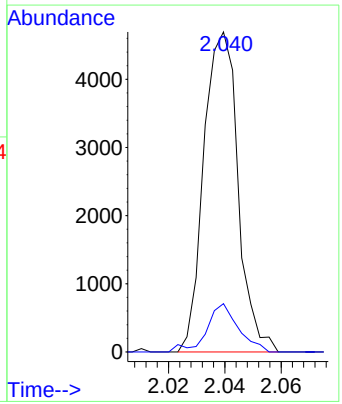
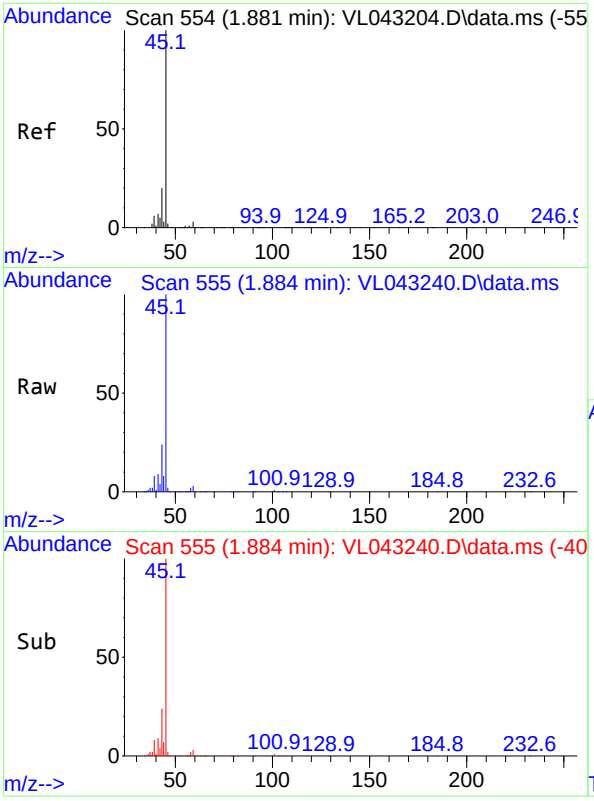


#17
tert-Butyl alcohol
Concen: 0.206 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 59 Resp: 3964

Ion	Ratio	Lower	Upper
59	100		
57	13.9	9.0	13.4#

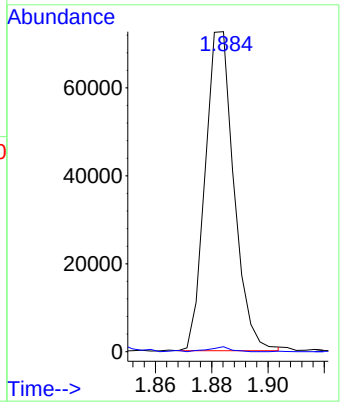




#19
Isopropyl Alcohol
Concen: 6.224 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 45 Resp: 5163

Ion	Ratio	Lower	Upper
45	100		
58	109.5	31.3	46.9#



Instrument :
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ClientSampleId :
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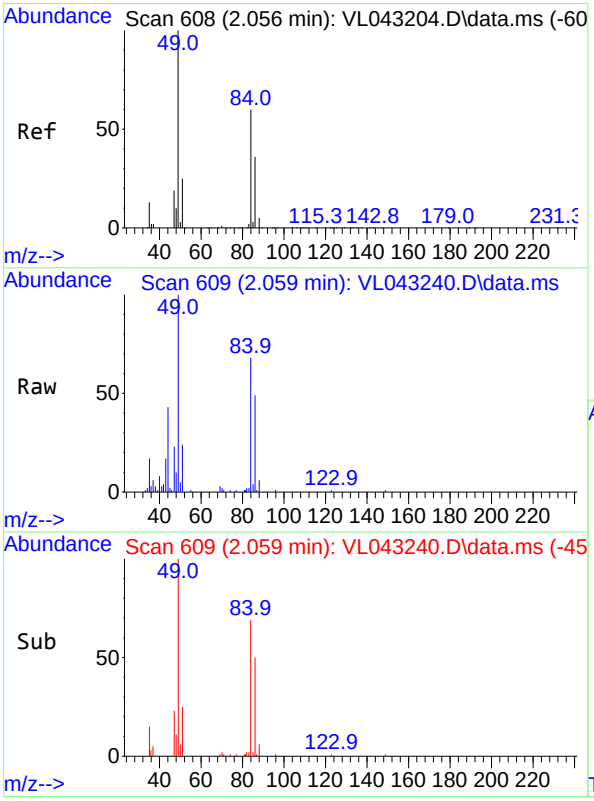
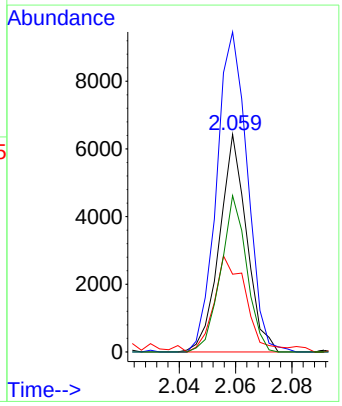
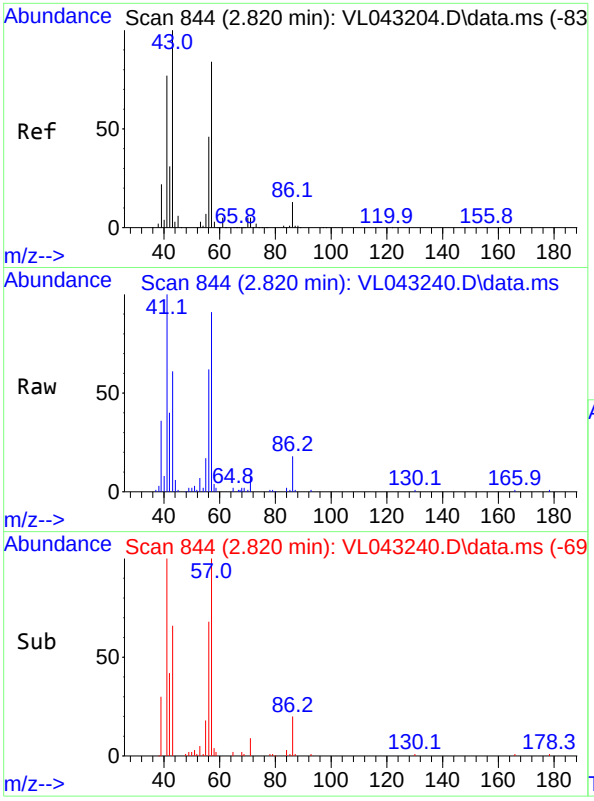


#20
Methylene Chloride
Concen: 0.227 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 84 Resp: 4300

Ion	Ratio	Lower	Upper
84	100		
49	145.4	132.9	199.3
51	33.5	34.8	52.2#
86	71.8	48.2	72.2

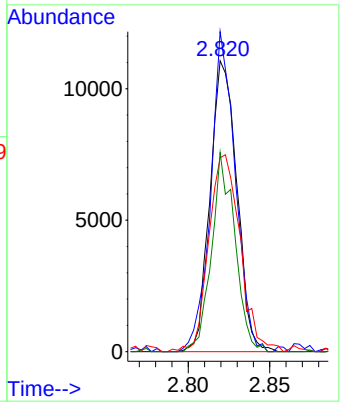




#26
Hexane
Concen: 0.909 ppbv
RT: 2.820 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 57 Resp: 1261

Ion	Ratio	Lower	Upper
57	100		
41	102.0	74.6	111.8
43	80.0	179.0	268.4#
56	60.2	42.3	63.5



Instrument :
MSVOA_L
ClientSampleId :
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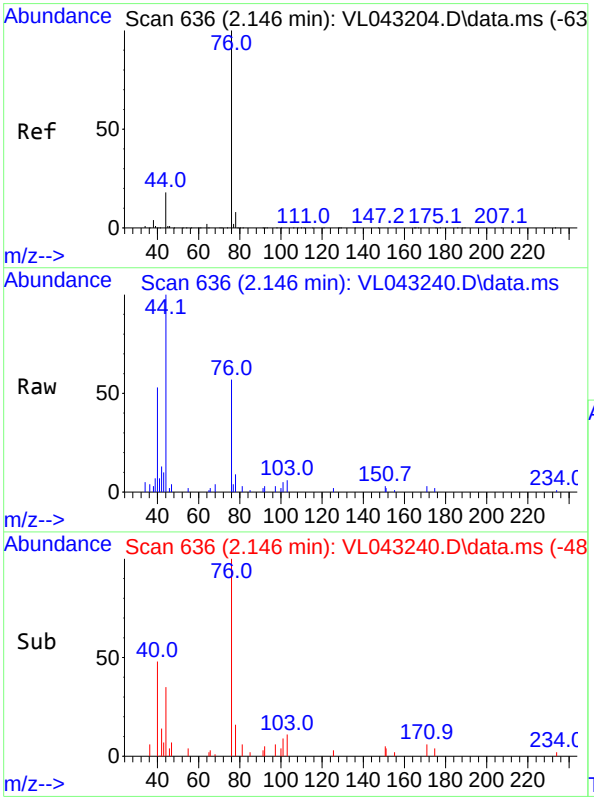
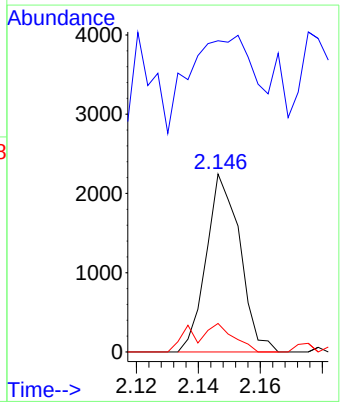
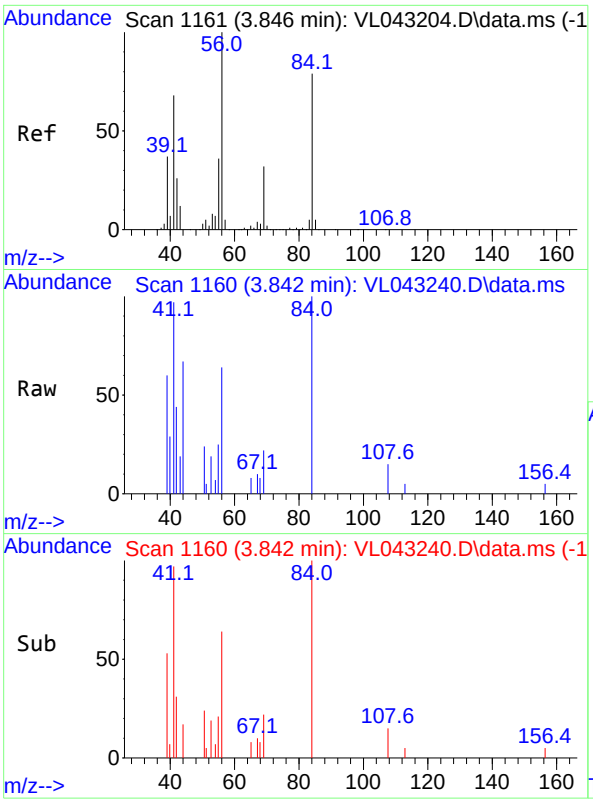


#27
Carbon Disulfide
Concen: 0.119 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 76 Resp: 1693

Ion	Ratio	Lower	Upper
76	100		
44	153.9	16.1	24.1#
78	19.4	9.6	14.4#

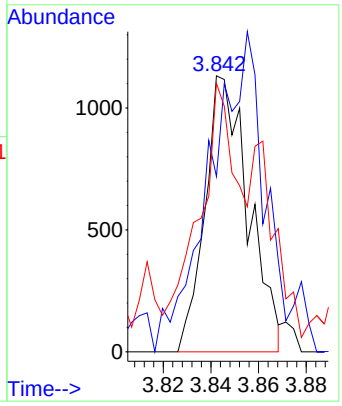




#30
Cyclohexane
Concen: 0.123 ppbv
RT: 3.842 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 84 Resp: 142

Ion	Ratio	Lower	Upper
84	100		
56	159.6	104.7	157.1#
41	135.7	69.0	103.6#



Instrument :
MSVOA_L
ClientSampleId :
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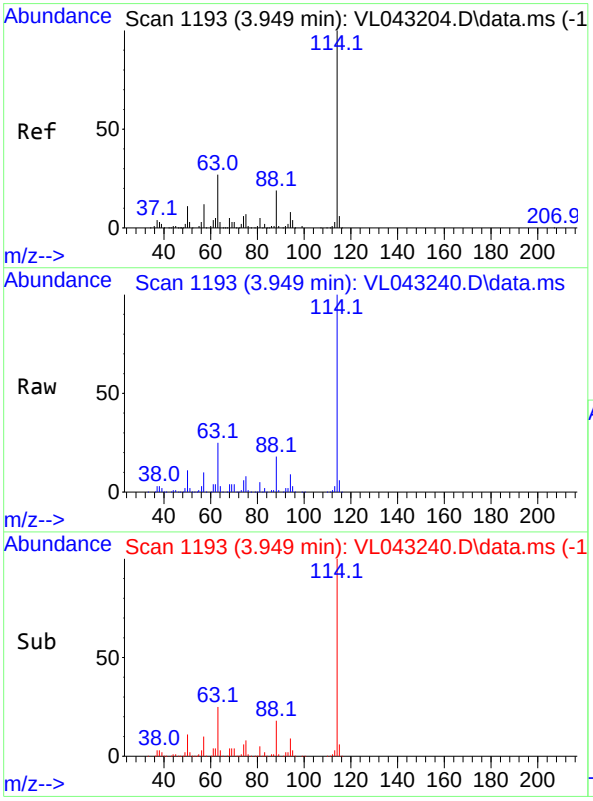
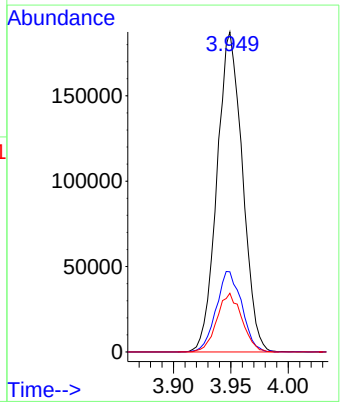
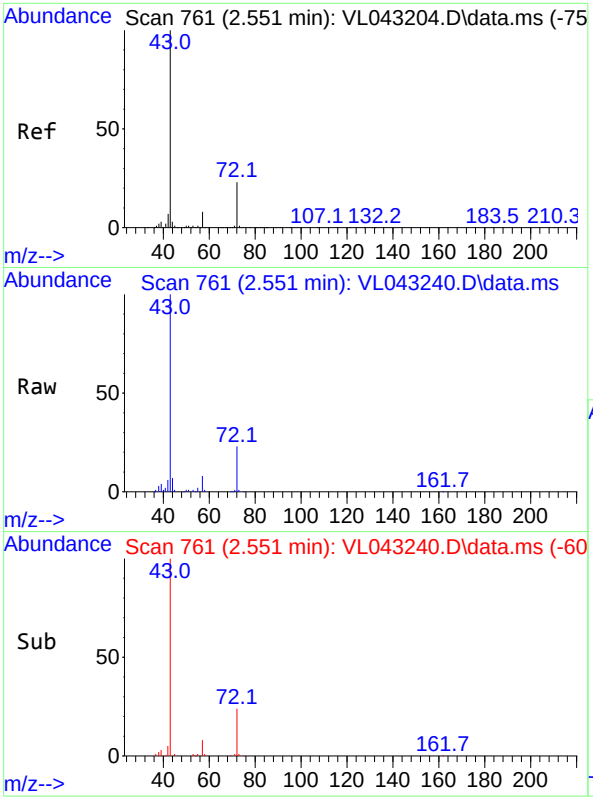


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion:114 Resp: 288442

Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.0	31.6
88	18.1	14.9	22.3

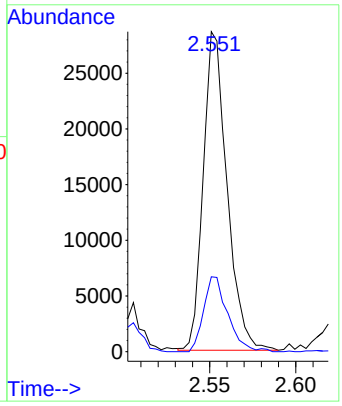




#34
2-Butanone
Concen: 1.349 ppbv
RT: 2.551 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 43 Resp: 2746

Ion	Ratio	Lower	Upper
43	100		
72	23.9	18.1	27.1



Instrument :
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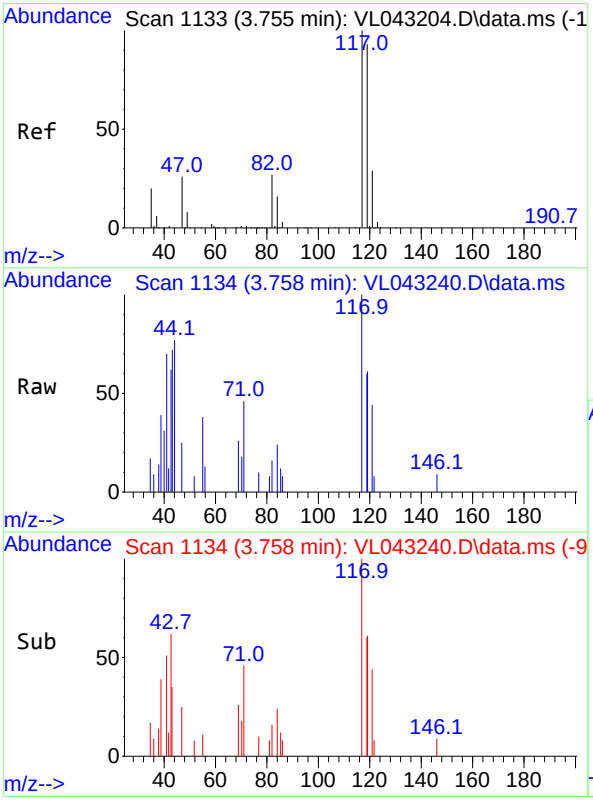
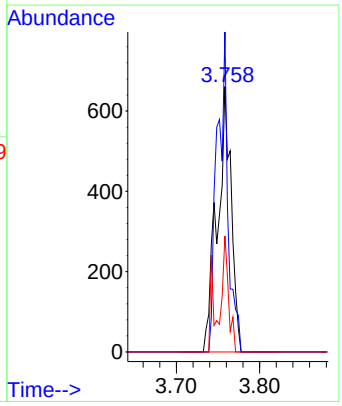
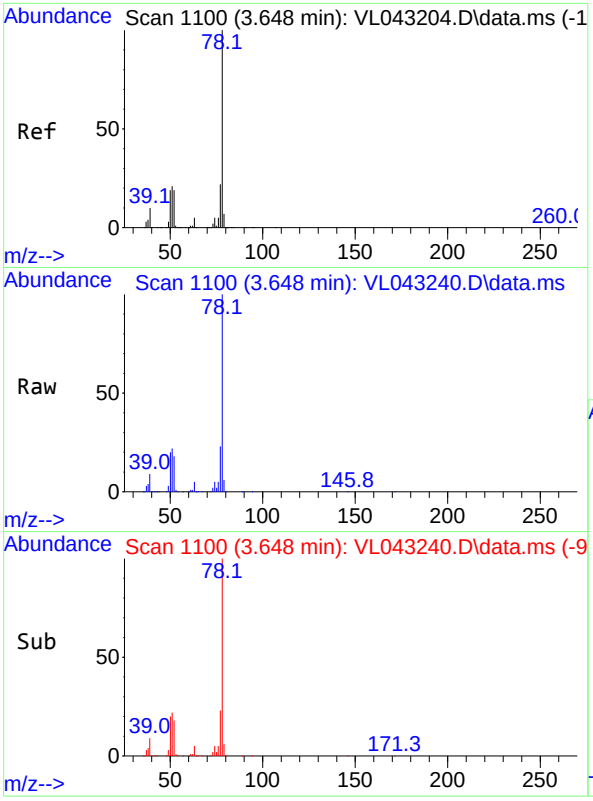


#35
Carbon Tetrachloride
Concen: 0.035 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion:117 Resp: 766

Ion	Ratio	Lower	Upper
117	100		
119	60.5	74.6	112.0#
121	43.7	23.2	34.8#

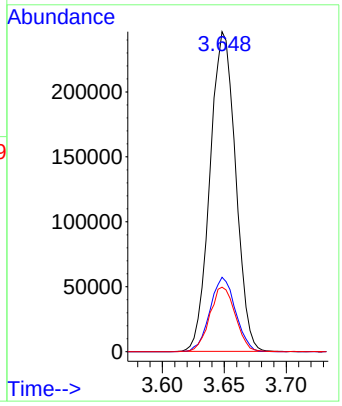




#36
Benzene
Concen: 12.816 ppbv
RT: 3.648 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 78 Resp: 35402

Ion	Ratio	Lower	Upper
78	100		
77	23.2	17.5	26.3
50	20.2	15.5	23.3



Instrument :
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ClientSampleId :
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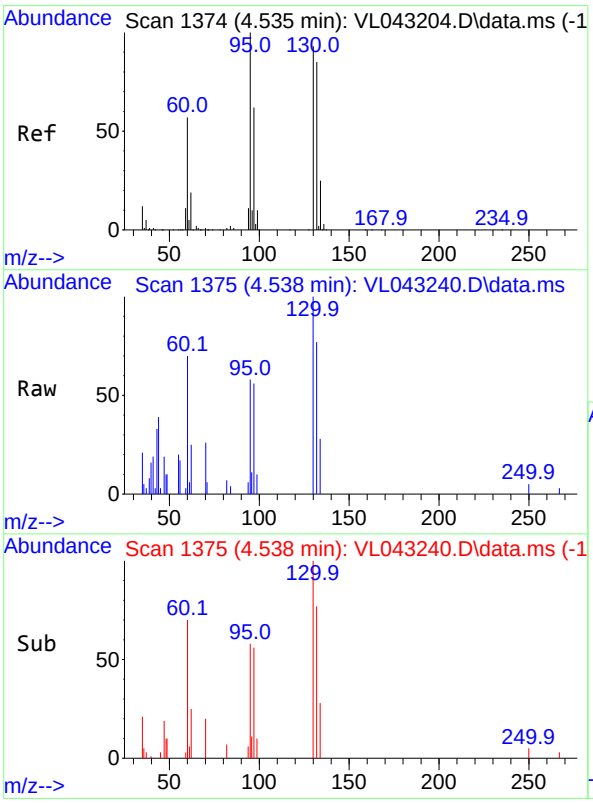
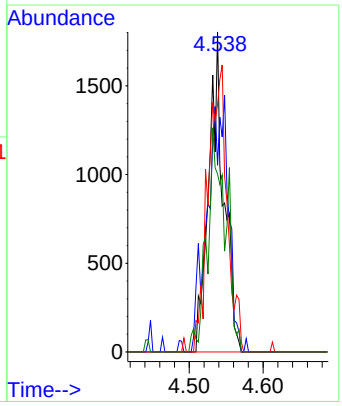
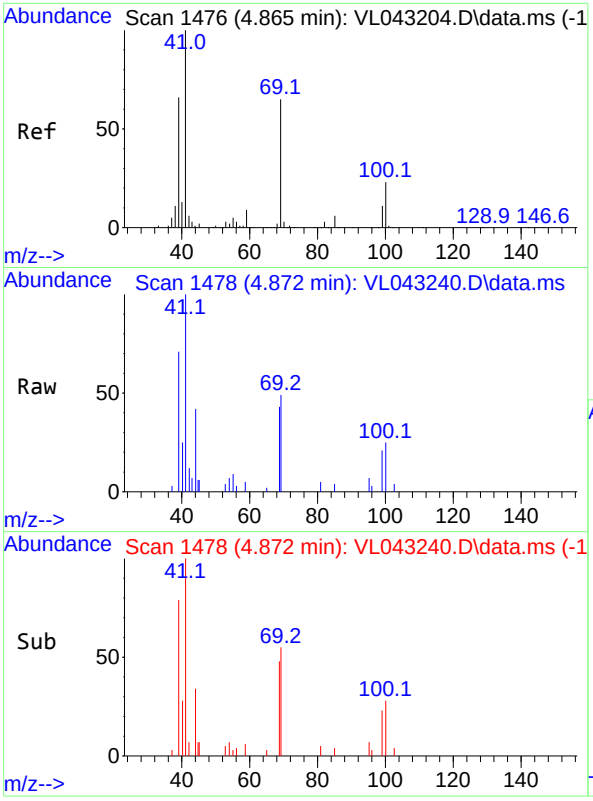


#38
Trichloroethene
Concen: 0.237 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion:130 Resp: 2561

Ion	Ratio	Lower	Upper
130	100		
95	58.4	85.7	128.5#
132	77.2	73.4	110.0
97	55.6	52.7	79.1

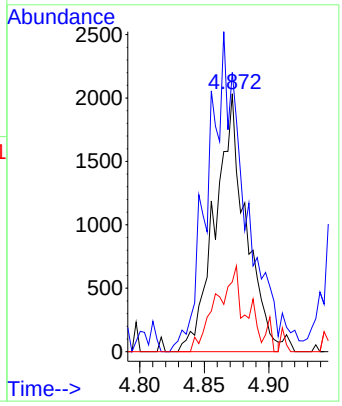




#43
Methyl Methacrylate
Concen: 0.229 ppbv
RT: 4.872 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 69 Resp: 336

Ion	Ratio	Lower	Upper
69	100		
41	152.4	126.7	190.1
100	35.0	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
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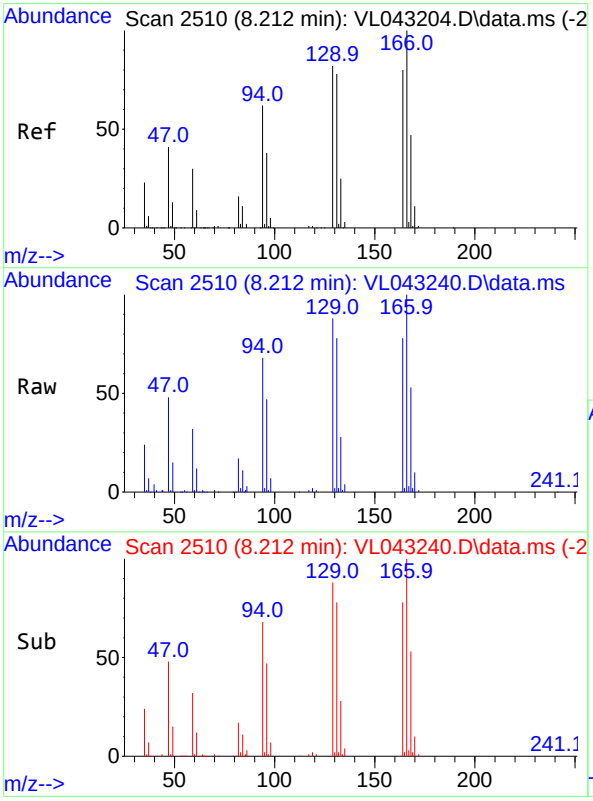
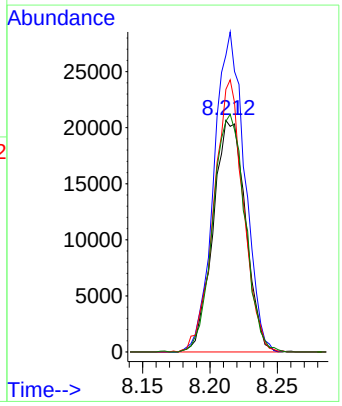
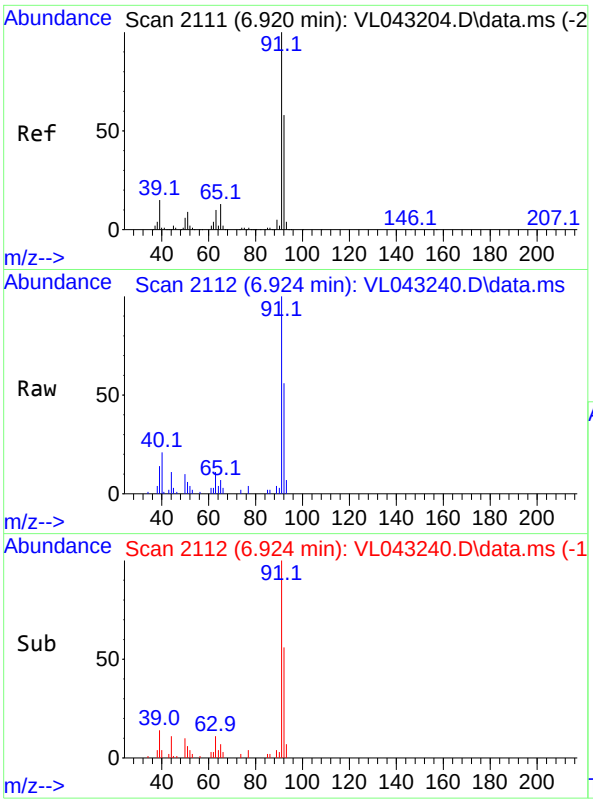


#52
Tetrachloroethene
Concen: 3.351 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion:164 Resp: 34435

Ion	Ratio	Lower	Upper
164	100		
166	128.1	99.4	149.2
129	113.4	81.8	122.8
131	99.7	77.4	116.2

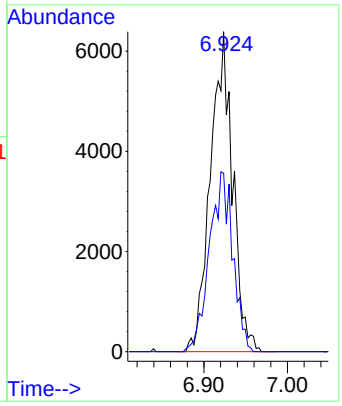




#53
Toluene
Concen: 0.361 ppbv m
RT: 6.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 91 Resp: 1179

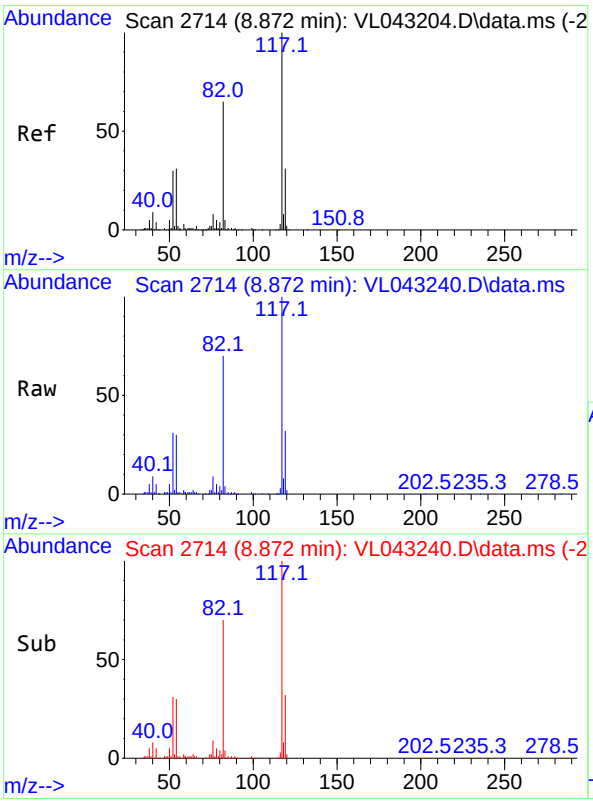
Ion	Ratio	Lower	Upper
91	100		
92	59.0	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Manual Integrations
APPROVED

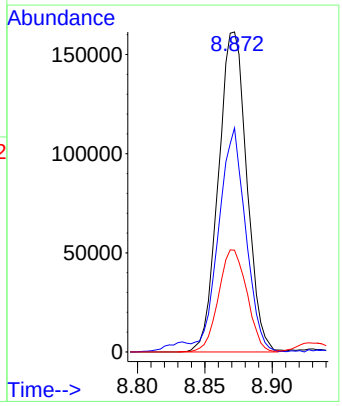
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

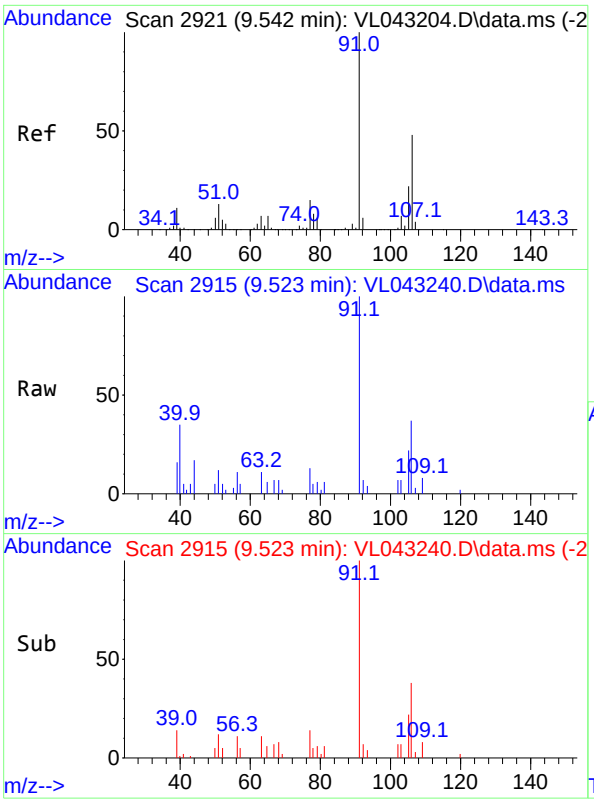


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion:117 Resp: 236337

Ion	Ratio	Lower	Upper
117	100		
82	69.6	56.1	84.1
119	32.1	25.0	37.6





#59
m/p-Xylene
Concen: 0.191 ppbv m
RT: 9.523 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

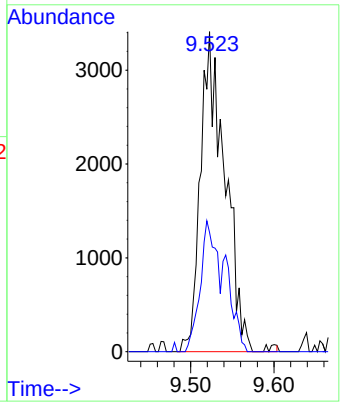
Tgt Ion: 91 Resp: 696

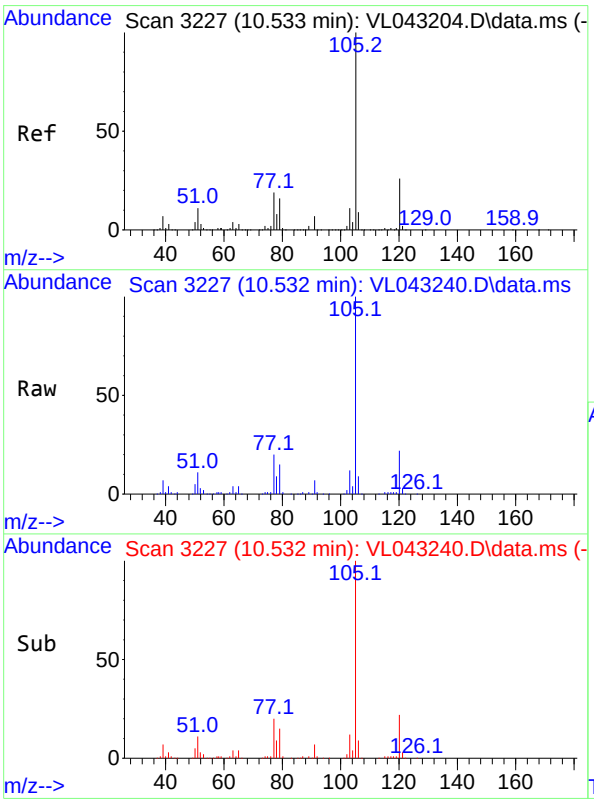
Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

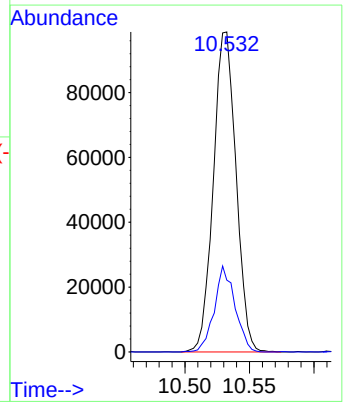


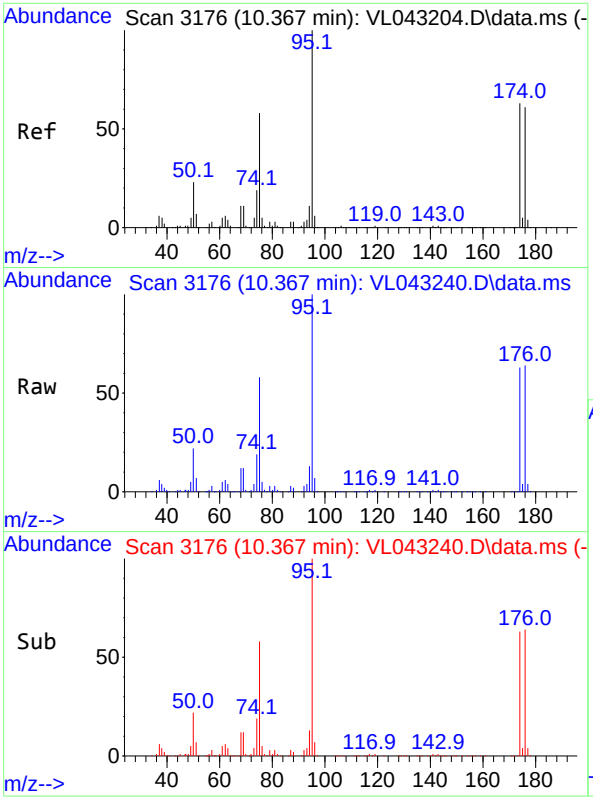


#62
Isopropylbenzene
Concen: 1.850 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion:105 Resp: 120610

Ion	Ratio	Lower	Upper
105	100		
120	24.4	19.8	29.8

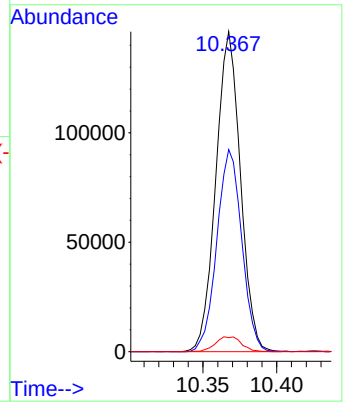




#68
1-Bromo-4-Fluorobenzene
Concen: 9.789 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 95 Resp: 16957

Ion	Ratio	Lower	Upper
95	100		
174	64.1	50.2	75.2
175	5.0	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	12-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-07	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	0.57	2.82	J	2	1.09	4.94	11/19/25 16:06	VL111925
74-87-3	Chloromethane	0.20	0.41	U	2	0.41	2.07	11/19/25 16:06	VL111925
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/19/25 16:06	VL111925
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/19/25 16:06	VL111925
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/19/25 16:06	VL111925
109-99-9	Tetrahydrofuran	0.16	0.47	U	2	0.47	2.95	11/19/25 16:06	VL111925
75-69-4	Trichlorofluoromethane	0.34	1.91	U	2	1.91	5.62	11/19/25 16:06	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/19/25 16:06	VL111925
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/19/25 16:06	VL111925
75-65-0	tert-Butyl alcohol	0.32	0.97	U	2	0.97	3.03	11/19/25 16:06	VL111925
142-82-5	Heptane	0.34	1.39	U	2	1.39	4.10	11/19/25 16:06	VL111925
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/19/25 16:06	VL111925
67-64-1	Acetone	14.5	34.4		2	0.86	2.38	11/19/25 16:06	VL111925
75-15-0	Carbon Disulfide	0.52	1.62	J	2	0.50	3.11	11/19/25 16:06	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/19/25 16:06	VL111925
75-09-2	Methylene Chloride	4.30	14.9		2	1.60	3.47	11/19/25 16:06	VL111925
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/19/25 16:06	VL111925
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/19/25 16:06	VL111925
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/19/25 16:06	VL111925
78-93-3	2-Butanone	0.88	2.60	J	2	0.32	2.95	11/19/25 16:06	VL111925
56-23-5	Carbon Tetrachloride	0.080	0.50		2	0.31	0.38	11/19/25 16:06	VL111925
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/19/25 16:06	VL111925
67-66-3	Chloroform	0.19	0.93	U	2	0.93	4.88	11/19/25 16:06	VL111925
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	2	0.16	0.33	11/19/25 16:06	VL111925
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/19/25 16:06	VL111925
71-43-2	Benzene	0.46	1.47	J	2	0.51	3.19	11/19/25 16:06	VL111925
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/19/25 16:06	VL111925
79-01-6	Trichloroethene	0.47	2.53		2	0.27	0.32	11/19/25 16:06	VL111925
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/19/25 16:06	VL111925
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/19/25 16:06	VL111925
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	U	2	0.78	4.10	11/19/25 16:06	VL111925
108-88-3	Toluene	0.42	1.58	J	2	1.21	3.77	11/19/25 16:06	VL111925
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/19/25 16:06	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/19/25 16:06	VL111925
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/19/25 16:06	VL111925
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/19/25 16:06	VL111925
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/19/25 16:06	VL111925
127-18-4	Tetrachloroethene	8.20	55.6		2	0.20	0.41	11/19/25 16:06	VL111925
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/19/25 16:06	VL111925
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/19/25 16:06	VL111925
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/19/25 16:06	VL111925
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/19/25 16:06	VL111925
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/19/25 16:06	VL111925
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/19/25 16:06	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/19/25 16:06	VL111925
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/19/25 16:06	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	12-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-07	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 16:06	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 16:06	VL111925
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/19/25 16:06	VL111925
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 16:06	VL111925
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 16:06	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/19/25 16:06	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/19/25 16:06	VL111925
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/19/25 16:06	VL111925
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/19/25 16:06	VL111925
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/19/25 16:06	VL111925
110-54-3	Hexane	2.50	8.81		2	1.13	3.52	11/19/25 16:06	VL111925
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/19/25 16:06	VL111925
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/19/25 16:06	VL111925
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/19/25 16:06	VL111925
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.0				70 (65) - 130 (135)	100% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	103000							
540-36-3	1,4-Difluorobenzene	289000							
3114-55-4	Chlorobenzene-d5	222000							

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\VL111925\
Data File : VL043241.D
Acq On : 19 Nov 2025 16:06
Operator : SY/MD
Sample : Q3626-07 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:06:41 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 :
12-SG-1

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	103097	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	289304	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	221774	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.371	95	162452	9.993	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	4138	0.285	ppbv		99
3) Chlorodifluoromethane	1.476	51	2988	0.209	ppbv		98
9) Propene	1.489	41	1371	0.226	ppbv	#	1
11) Trichlorofluoromethane	1.878	101	1898	0.135	ppbv		88
13) Ethanol	1.719	45	19199	8.991	ppbv		94
15) Acetone	1.836	43	103554	7.230	ppbv		100
17) tert-Butyl alcohol	2.043	59	2769	0.147	ppbv	#	91
19) Isopropyl Alcohol	1.884	45	34326	4.241	ppbv	#	37
20) Methylene Chloride	2.062	84	11672	2.149	ppbv	#	82
26) Hexane	2.826	57	17106	1.263	ppbv	#	42
27) Carbon Disulfide	2.150	76	3585	0.259	ppbv	#	1
34) 2-Butanone	2.557	43	9027	0.442	ppbv		98
35) Carbon Tetrachloride	3.765	117	930m	0.042	ppbv		
36) Benzene	3.658	78	6389m	0.231	ppbv		
38) Trichloroethene	4.542	130	2541m	0.234	ppbv		
52) Tetrachloroethene	8.218	164	42186	4.093	ppbv		92
53) Toluene	6.927	91	6959m	0.212	ppbv		
59) m/p-Xylene	9.526	91	6540m	0.191	ppbv		

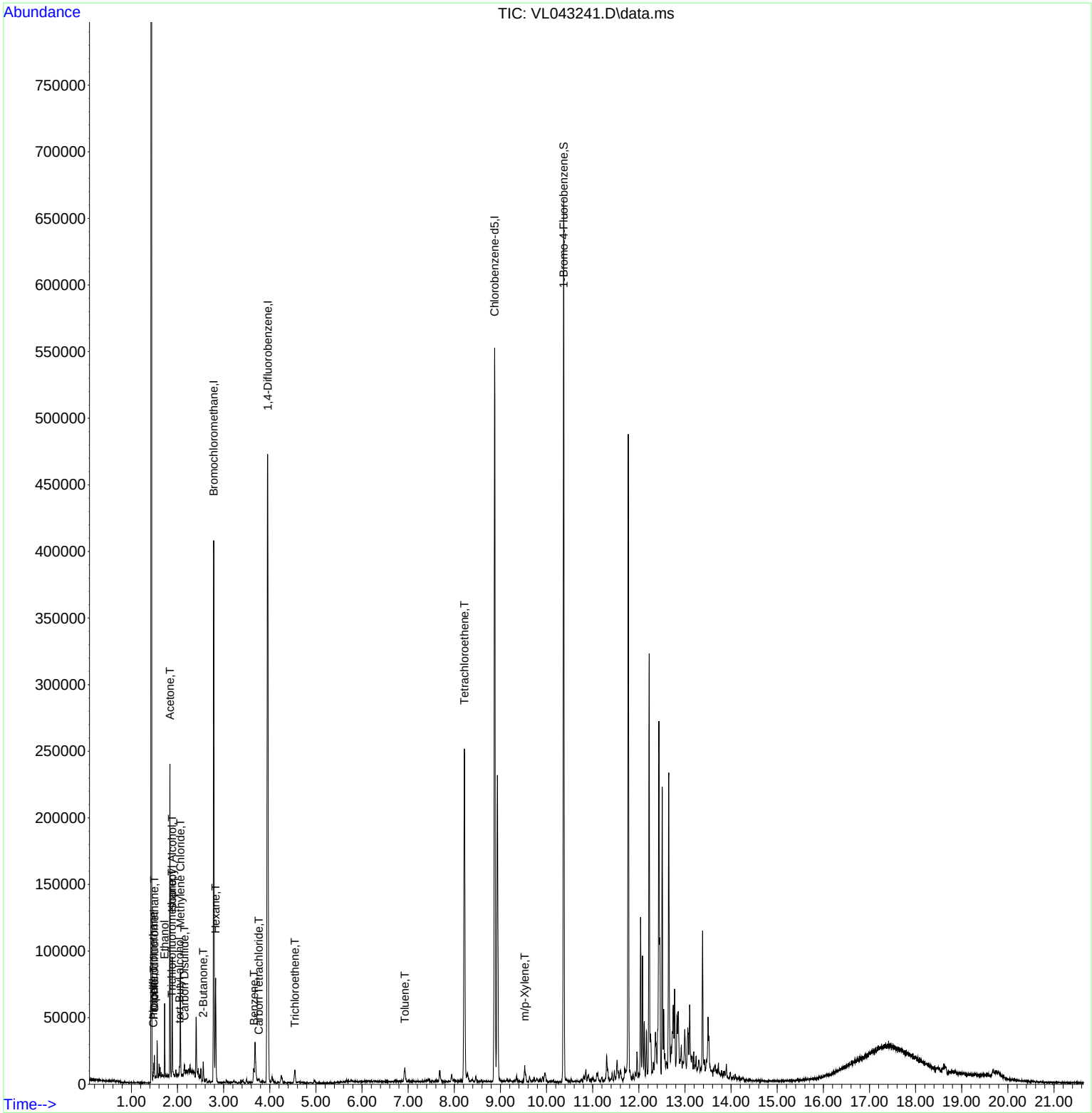
(#) = qualifier out of range (m) = manual integration (+) = signals summed

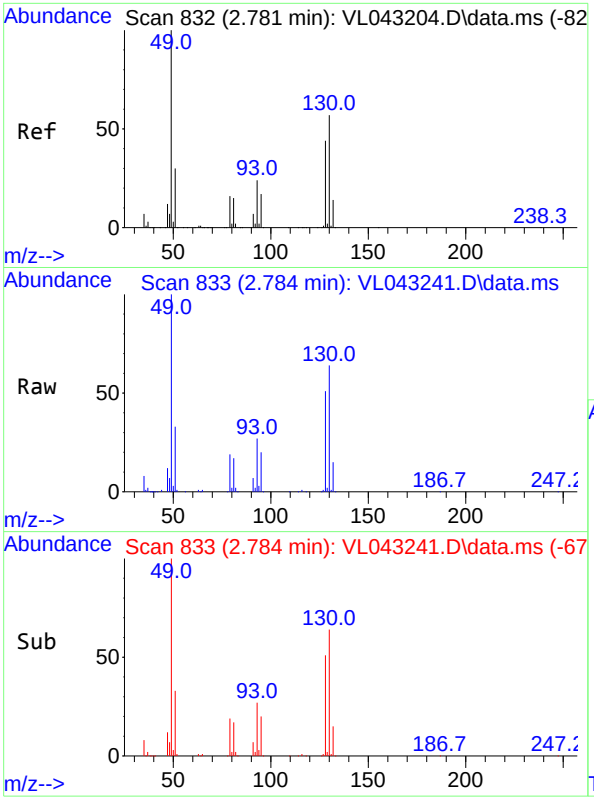
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043241.D
Acq On : 19 Nov 2025 16:06
Operator : SY/MD
Sample : Q3626-07 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:06:41 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 :
12-SG-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

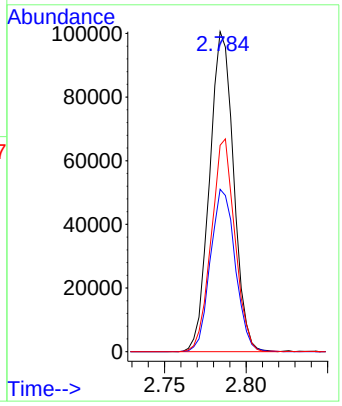




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 49 Resp: 10309

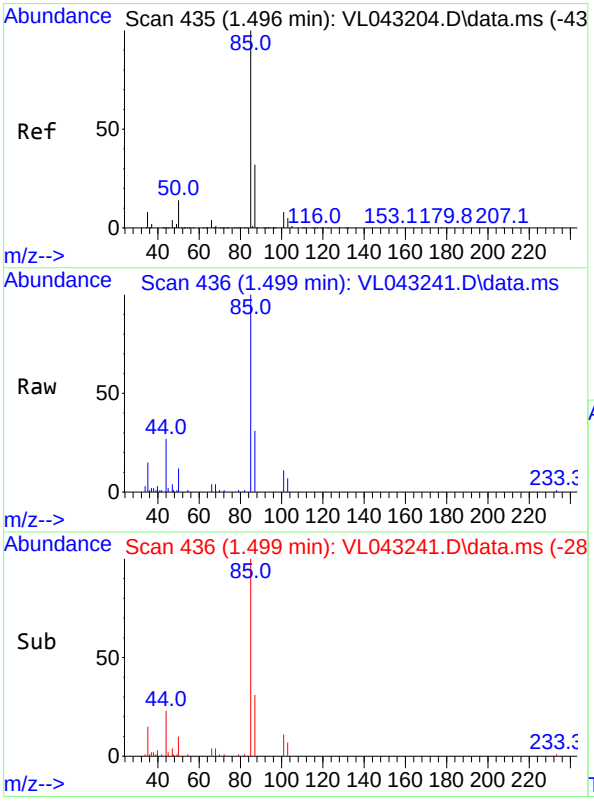
Ion	Ratio	Lower	Upper
49	100		
128	52.4	23.0	69.0
130	65.4	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Manual Integrations
APPROVED

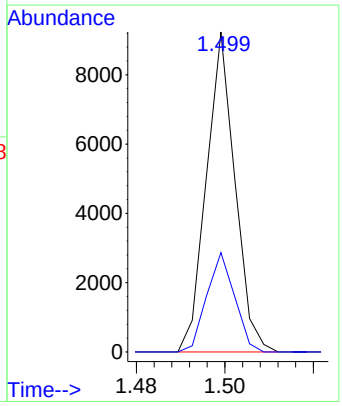
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

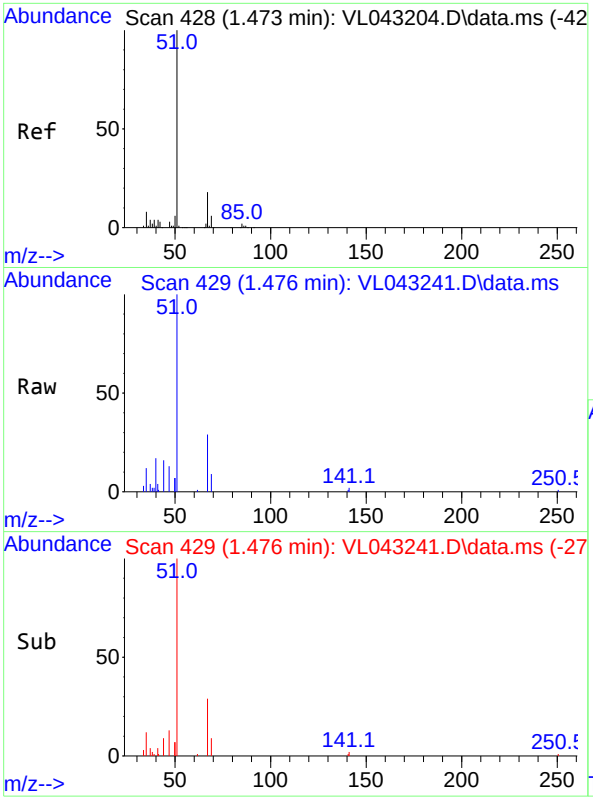


#2
Dichlorodifluoromethane
Concen: 0.285 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 85 Resp: 4138

Ion	Ratio	Lower	Upper
85	100		
87	31.0	25.4	38.2

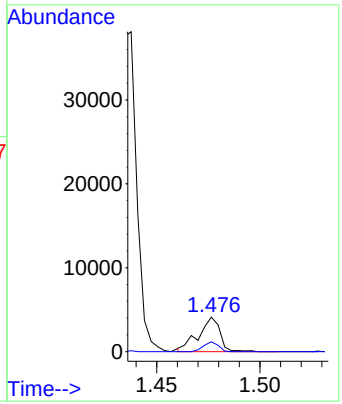




#3
Chlorodifluoromethane
Concen: 0.209 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 51 Resp: 298

Ion	Ratio	Lower	Upper
51	100		
67	19.5	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

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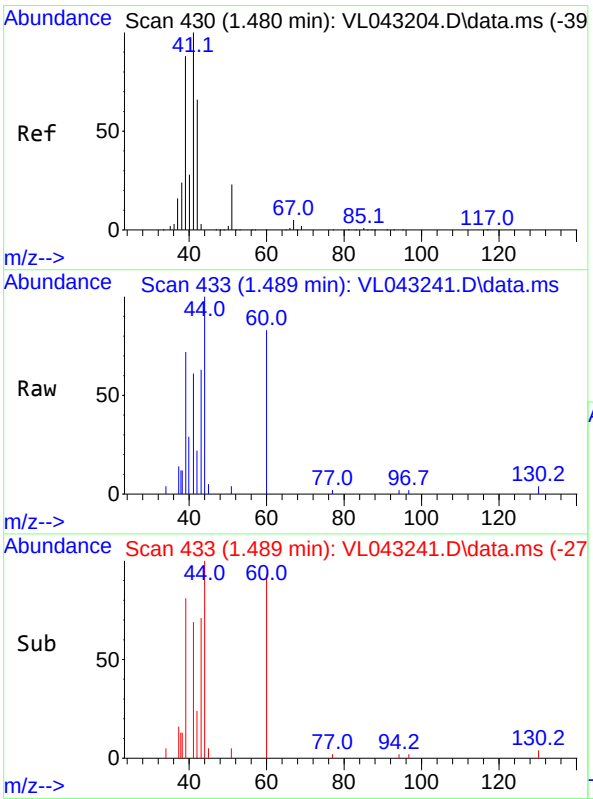
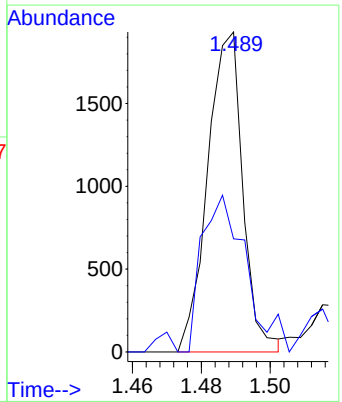
Supervised By :Mahesh Dadoda 11/21/2025

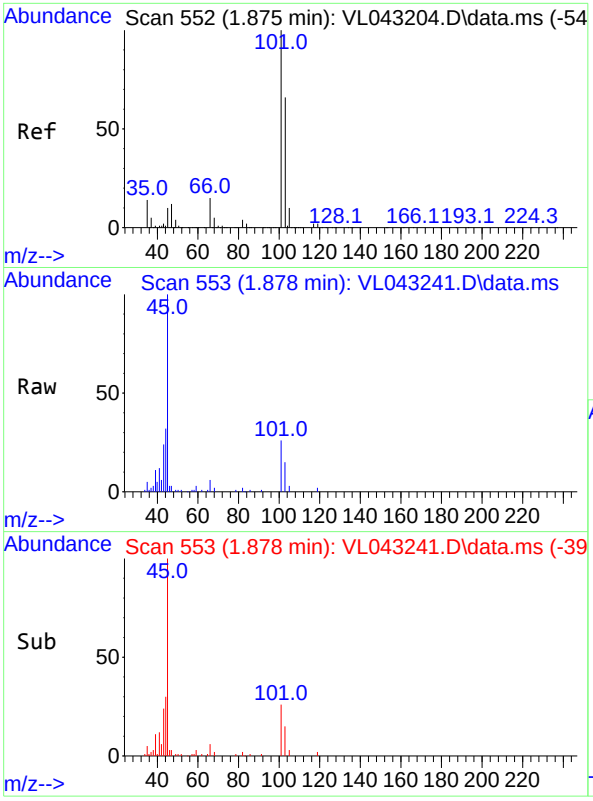


#9
Propene
Concen: 0.226 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.010 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 41 Resp: 1371

Ion	Ratio	Lower	Upper
41	100		
42	64.2	3.7	5.5#

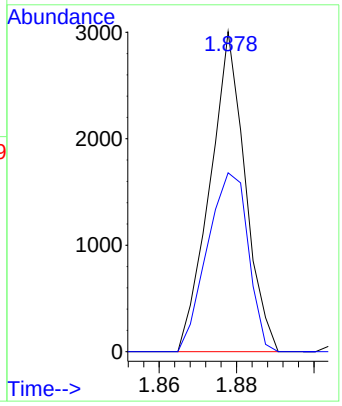




#11
Trichlorofluoromethane
Concen: 0.135 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion:101 Resp: 189

Ion	Ratio	Lower	Upper
101	100		
103	55.9	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

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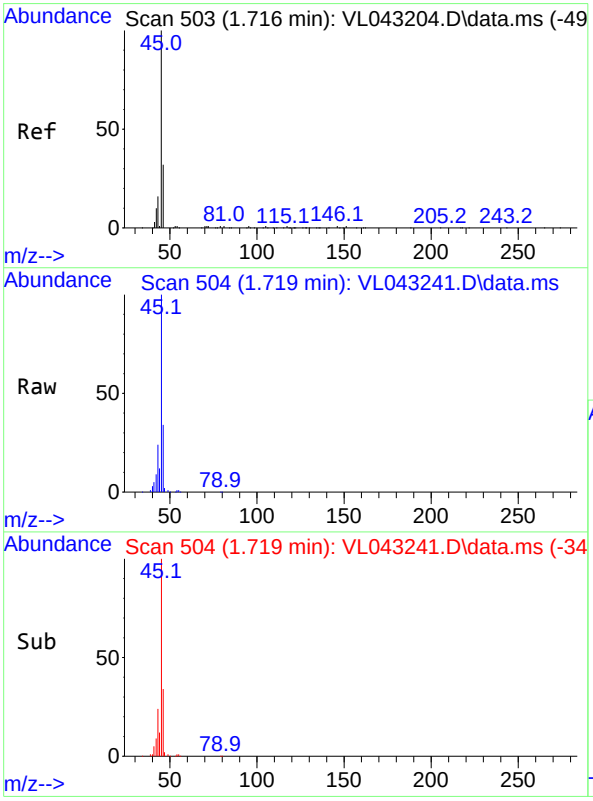
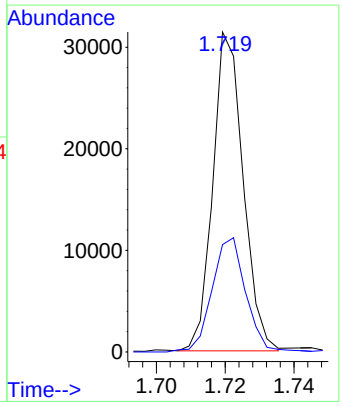
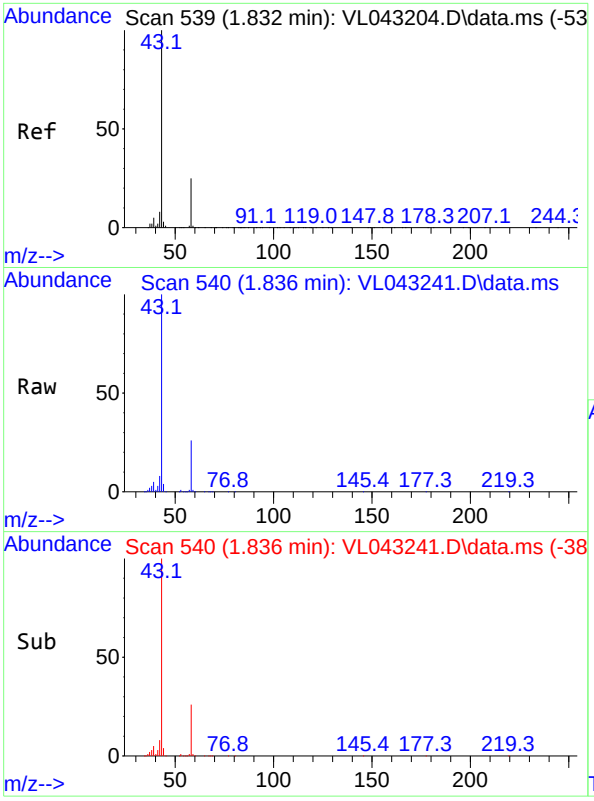


#13
Ethanol
Concen: 8.991 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 45 Resp: 19199

Ion	Ratio	Lower	Upper
45	100		
46	41.0	15.0	59.8





#15
Acetone
Concen: 7.230 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 43 Resp: 10355

Ion	Ratio	Lower	Upper
43	100		
58	25.7	20.7	31.1

Instrument :
MSVOA_L
ClientSampleId :
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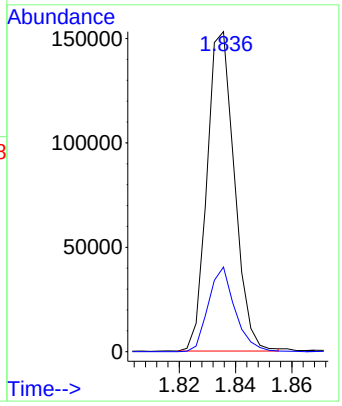
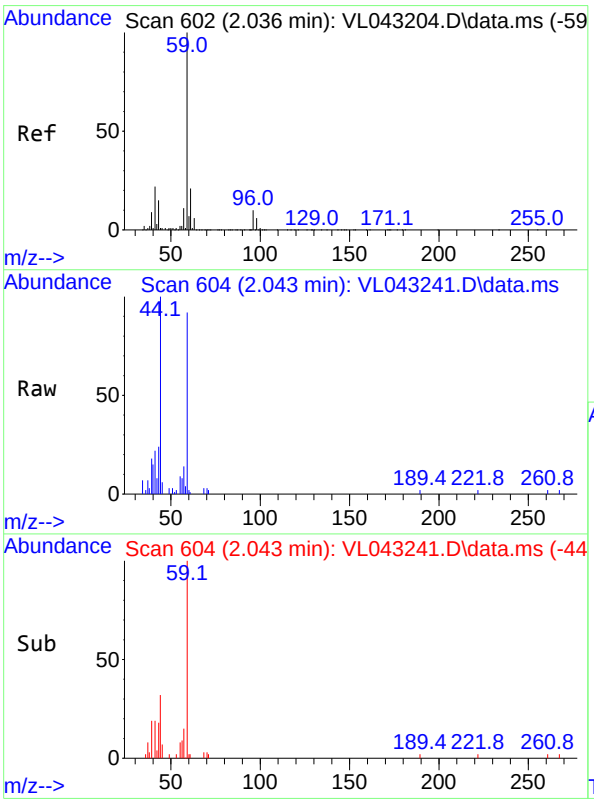
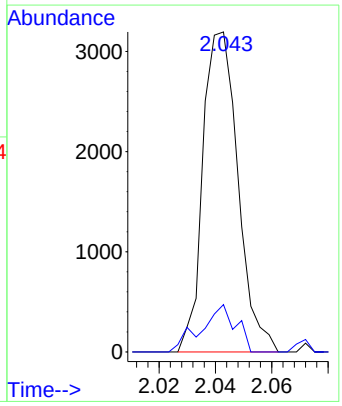


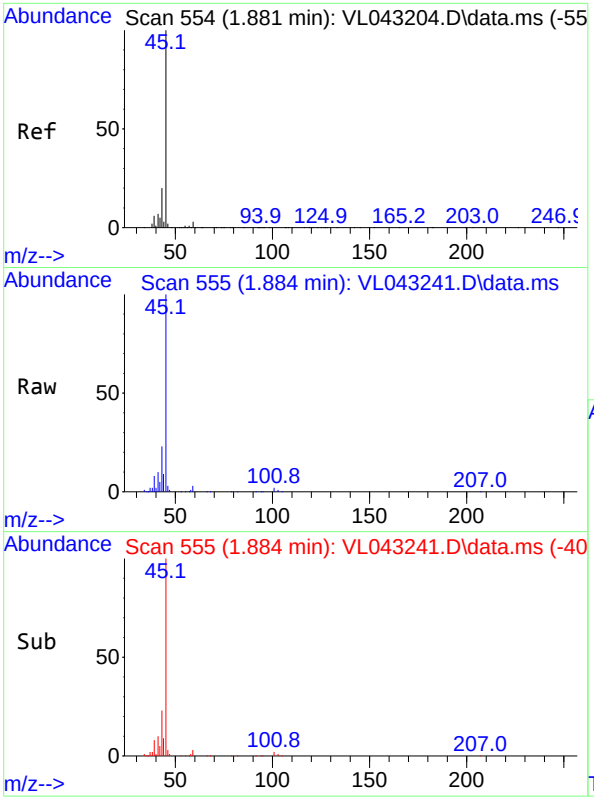


#17
tert-Butyl alcohol
Concen: 0.147 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.007 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 59 Resp: 2769

Ion	Ratio	Lower	Upper
59	100		
57	14.7	9.0	13.4#

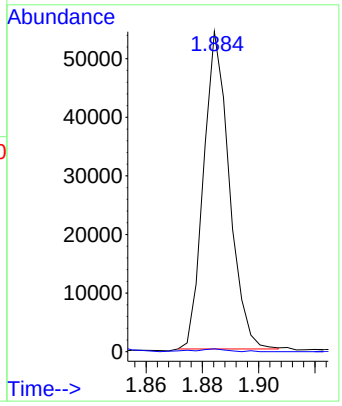




#19
Isopropyl Alcohol
Concen: 4.241 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 45 Resp: 3432

Ion	Ratio	Lower	Upper
45	100		
58	77.7	31.3	46.9#



Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

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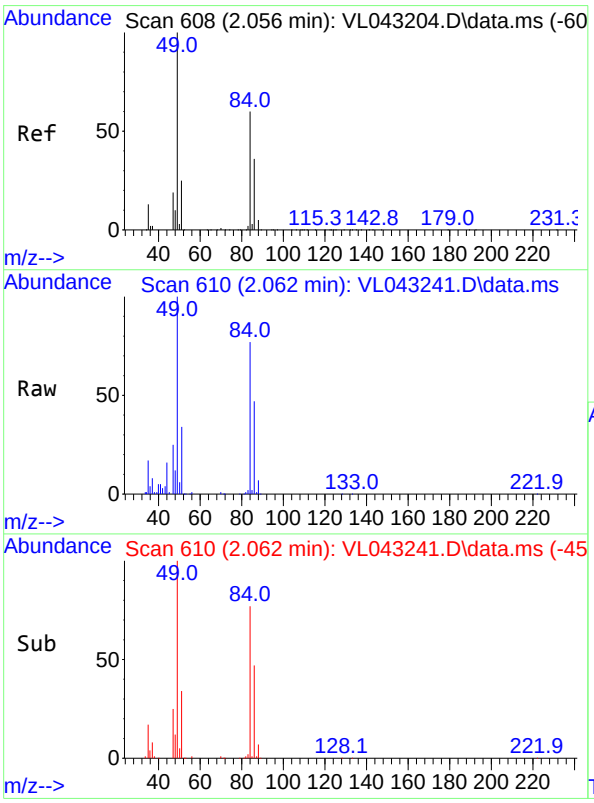
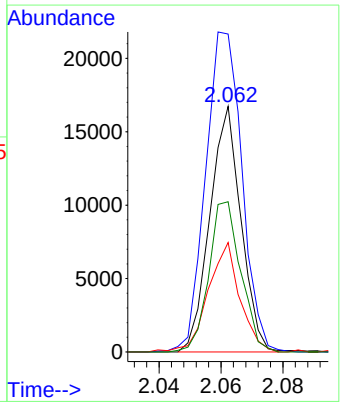
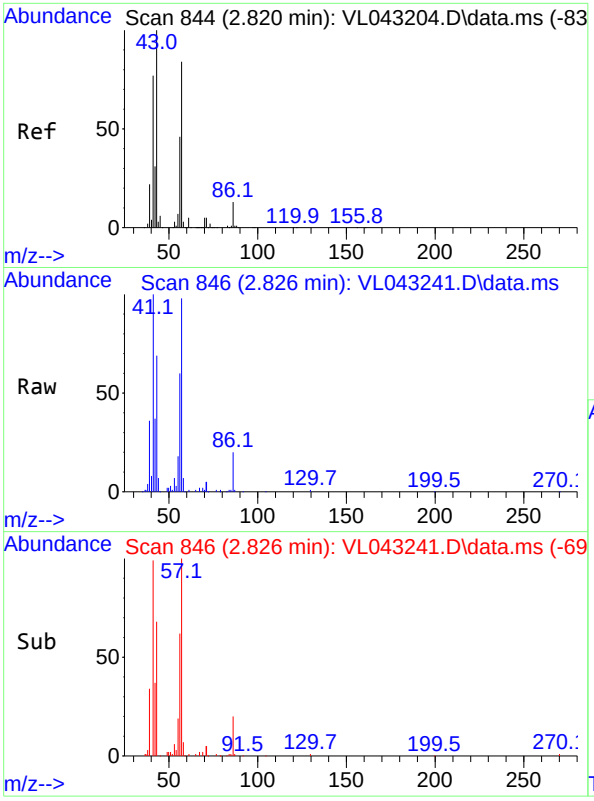


#20
Methylene Chloride
Concen: 2.149 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 84 Resp: 11672

Ion	Ratio	Lower	Upper
84	100		
49	128.5	132.9	199.3#
51	44.6	34.8	52.2
86	61.2	48.2	72.2

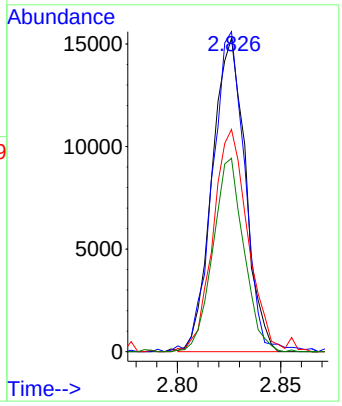




#26
Hexane
Concen: 1.263 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.007 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 57 Resp: 1710

Ion	Ratio	Lower	Upper
57	100		
41	100.1	74.6	111.8
43	75.2	179.0	268.4#
56	57.7	42.3	63.5



Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

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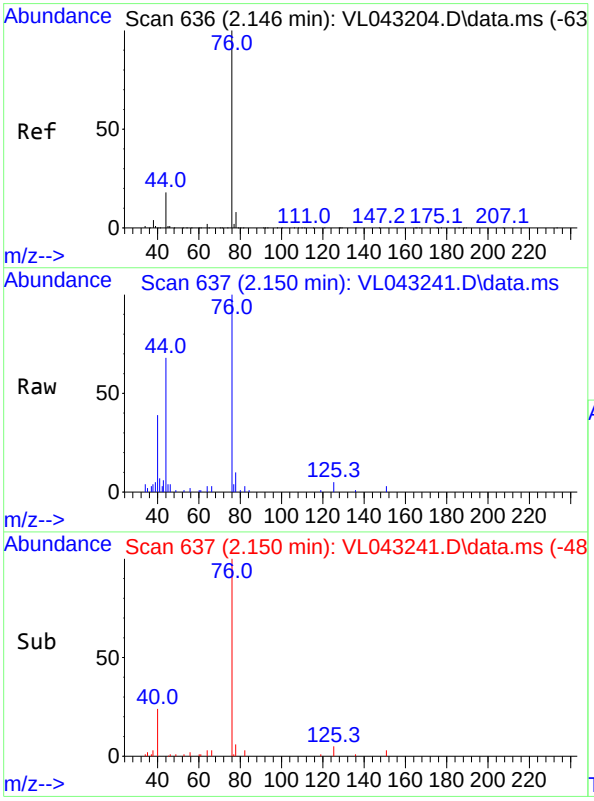
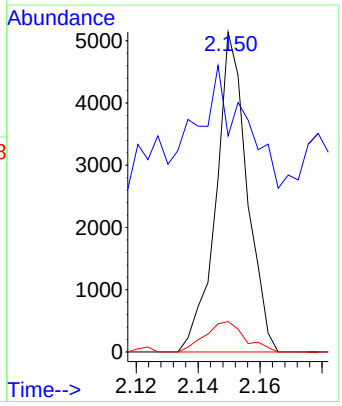
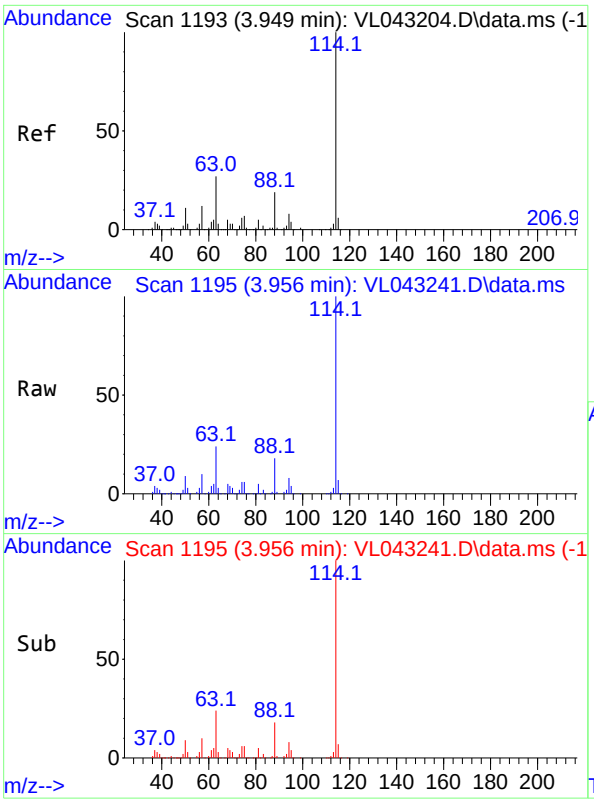


#27
Carbon Disulfide
Concen: 0.259 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 76 Resp: 3585

Ion	Ratio	Lower	Upper
76	100		
44	132.4	16.1	24.1#
78	12.9	9.6	14.4

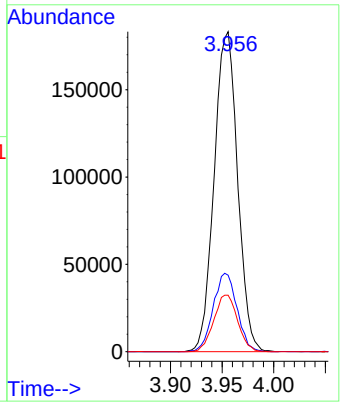




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion:114 Resp: 28930

Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.0	31.6
88	18.0	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

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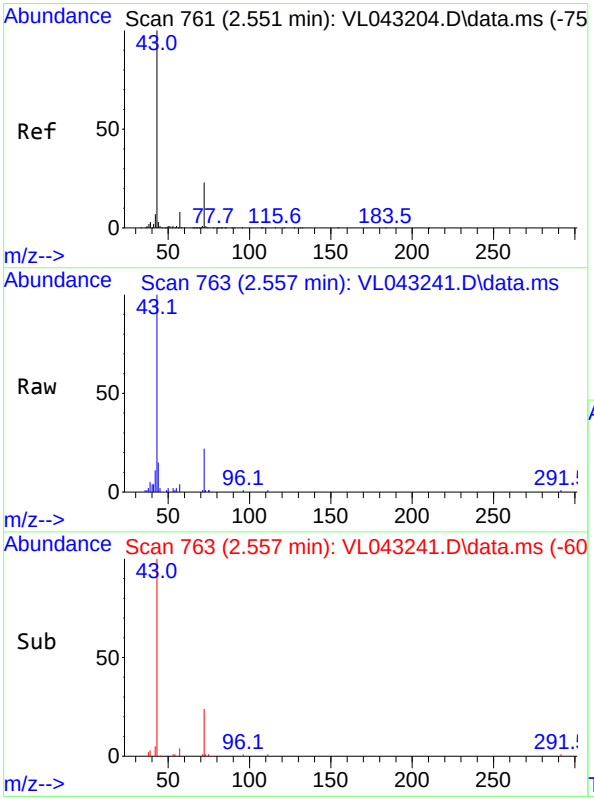
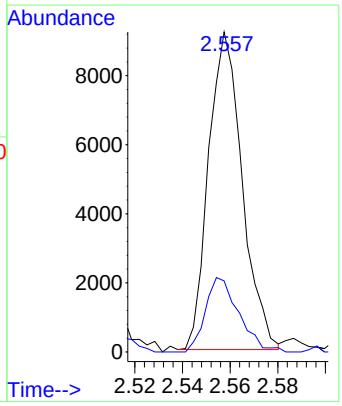
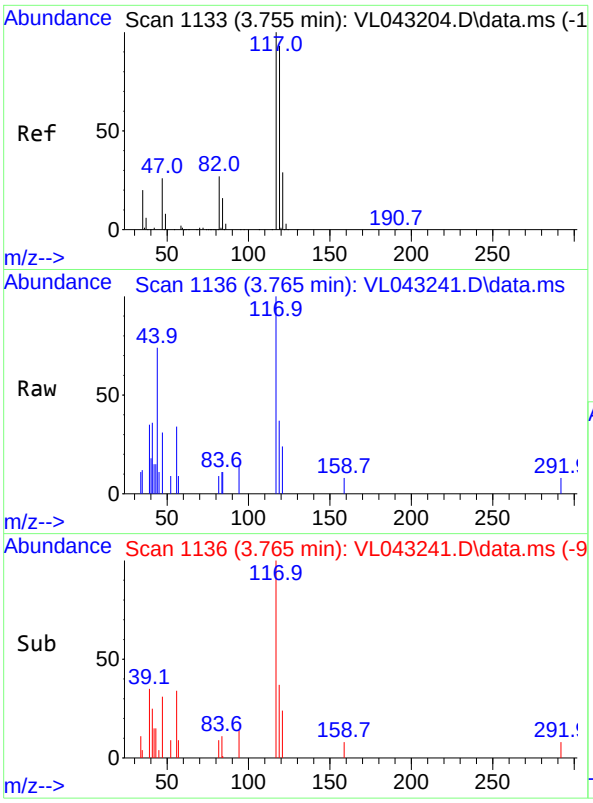


#34
2-Butanone
Concen: 0.442 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 43 Resp: 9027

Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.1	27.1

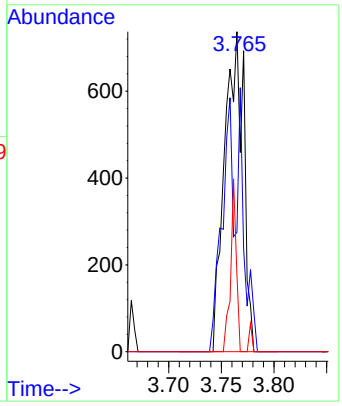




#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 3.765 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion:117 Resp: 93

Ion	Ratio	Lower	Upper
117	100		
119	37.3	74.6	112.0
121	24.2	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

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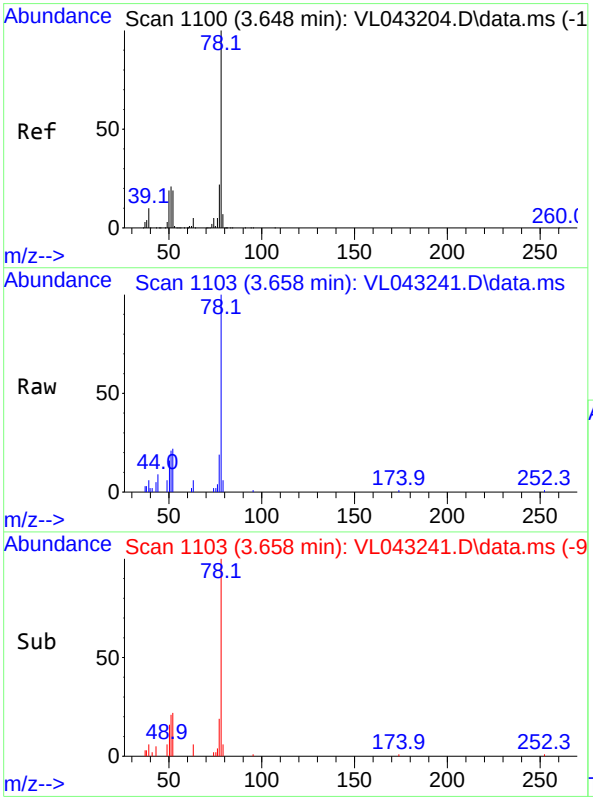
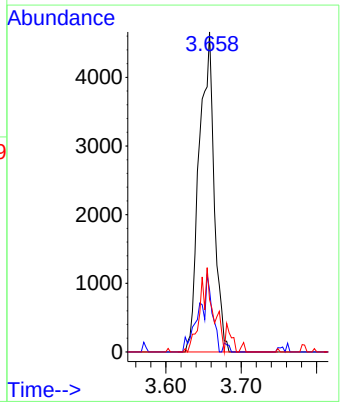
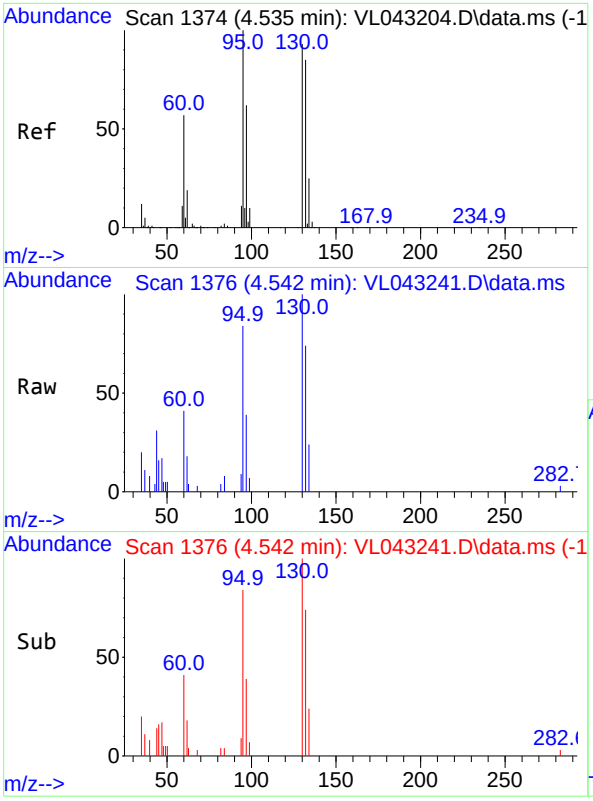


#36
Benzene
Concen: 0.231 ppbv m
RT: 3.658 min Scan# 1103
Delta R.T. 0.010 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 78 Resp: 6389

Ion	Ratio	Lower	Upper
78	100		
77	19.4	17.5	26.3
50	16.3	15.5	23.3

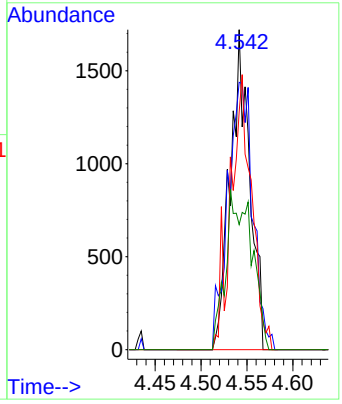




#38
Trichloroethene
Concen: 0.234 ppbv m
RT: 4.542 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion:130 Resp: 254

Ion	Ratio	Lower	Upper
130	100		
95	83.6	85.7	128.5#
132	74.3	73.4	110.0
97	39.1	52.7	79.1#



Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

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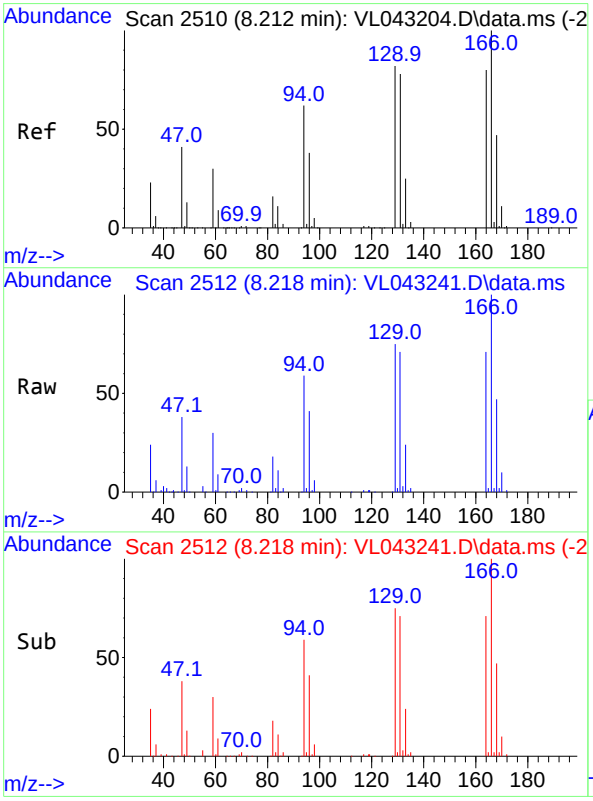
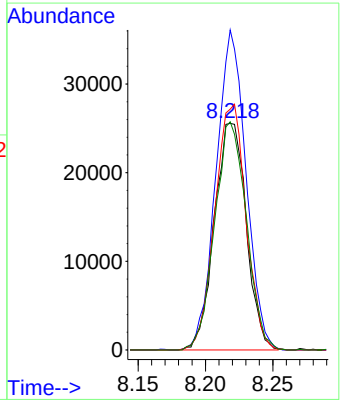
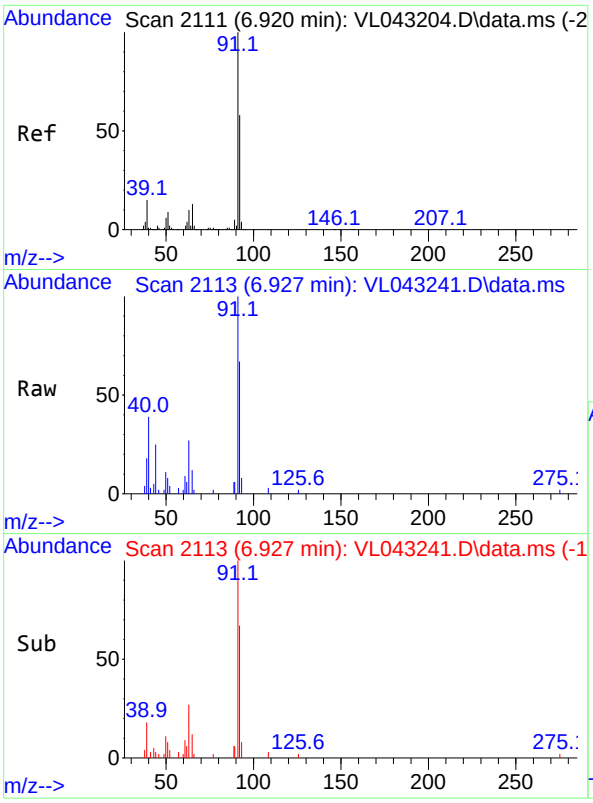


#52
Tetrachloroethene
Concen: 4.093 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion:164 Resp: 42186

Ion	Ratio	Lower	Upper
164	100		
166	141.2	99.4	149.2
129	106.3	81.8	122.8
131	100.7	77.4	116.2

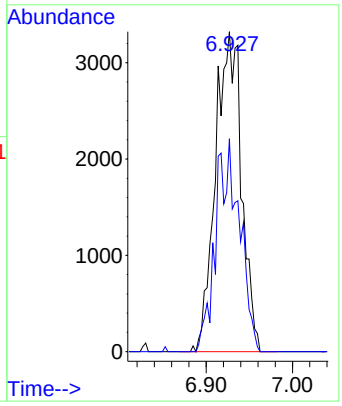




#53
Toluene
Concen: 0.212 ppbv m
RT: 6.927 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 91 Resp: 695

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

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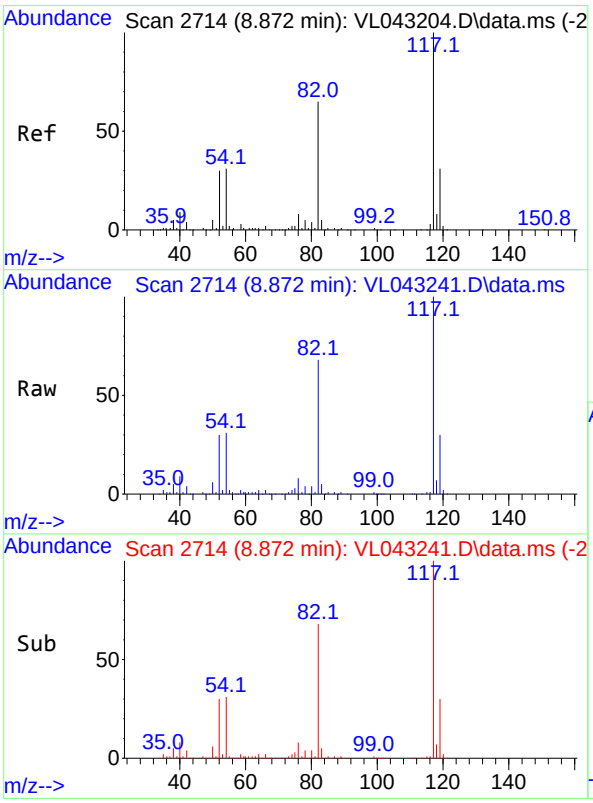
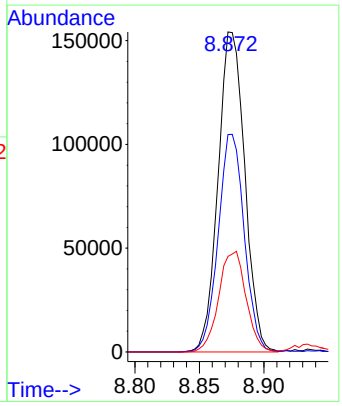
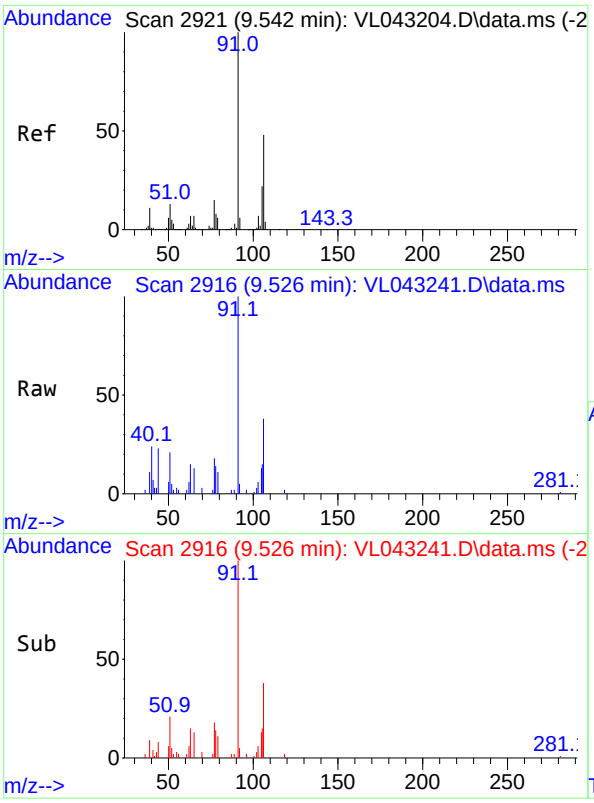


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.000 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion:117 Resp: 221774

Ion	Ratio	Lower	Upper
117	100		
82	66.9	56.1	84.1
119	32.2	25.0	37.6





#59
m/p-Xylene
Concen: 0.191 ppbv m
RT: 9.526 min Scan# 2
Delta R.T. -0.016 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 91 Resp: 654

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

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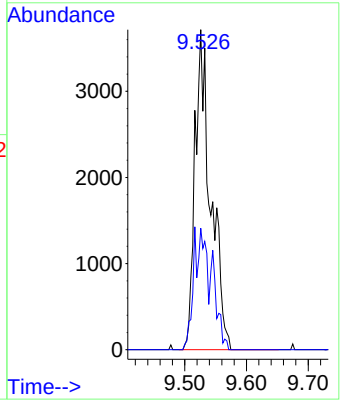
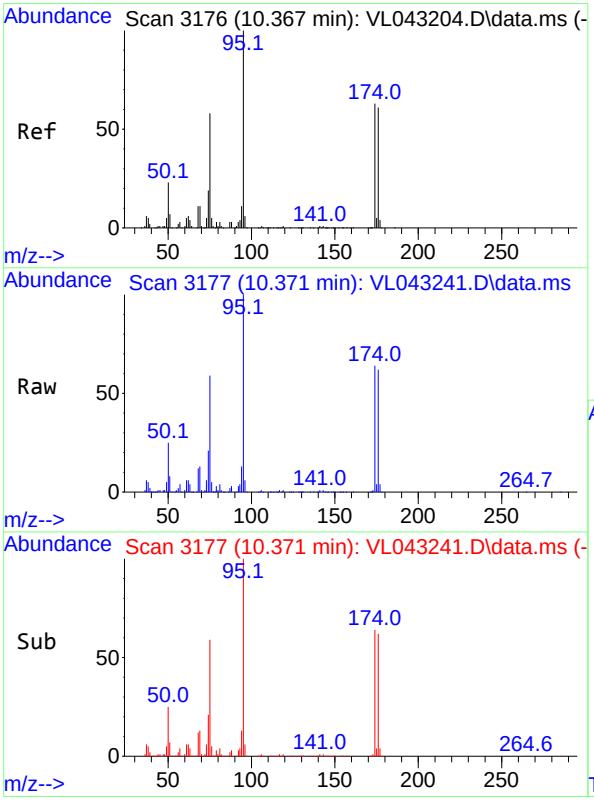
Supervised By :Mahesh Dadoda 11/21/2025

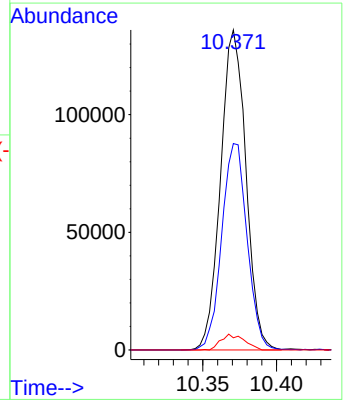




#68
1-Bromo-4-Fluorobenzene
Concen: 9.993 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 95 Resp: 162452

Ion	Ratio	Lower	Upper
95	100		
174	64.8	50.2	75.2
175	4.6	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:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	12-SG-2	SDG No.:	Q3626
Lab Sample ID:	Q3626-08	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	0.55	2.72	J	2	1.09	4.94	11/19/25 16:39	VL111925
74-87-3	Chloromethane	0.38	0.78	J	2	0.41	2.07	11/19/25 16:39	VL111925
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/19/25 16:39	VL111925
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/19/25 16:39	VL111925
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/19/25 16:39	VL111925
109-99-9	Tetrahydrofuran	0.16	0.47	U	2	0.47	2.95	11/19/25 16:39	VL111925
75-69-4	Trichlorofluoromethane	0.34	1.91	U	2	1.91	5.62	11/19/25 16:39	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/19/25 16:39	VL111925
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/19/25 16:39	VL111925
75-65-0	tert-Butyl alcohol	0.32	0.97	U	2	0.97	3.03	11/19/25 16:39	VL111925
142-82-5	Heptane	0.34	1.39	U	2	1.39	4.10	11/19/25 16:39	VL111925
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/19/25 16:39	VL111925
67-64-1	Acetone	27.7	65.8		2	0.86	2.38	11/19/25 16:39	VL111925
75-15-0	Carbon Disulfide	0.16	0.50	U	2	0.50	3.11	11/19/25 16:39	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/19/25 16:39	VL111925
75-09-2	Methylene Chloride	34.7	121	E	2	1.60	3.47	11/19/25 16:39	VL111925
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/19/25 16:39	VL111925
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/19/25 16:39	VL111925
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/19/25 16:39	VL111925
78-93-3	2-Butanone	0.52	1.53	J	2	0.32	2.95	11/19/25 16:39	VL111925
56-23-5	Carbon Tetrachloride	0.070	0.44		2	0.31	0.38	11/19/25 16:39	VL111925
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/19/25 16:39	VL111925
67-66-3	Chloroform	0.19	0.93	U	2	0.93	4.88	11/19/25 16:39	VL111925
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	2	0.16	0.33	11/19/25 16:39	VL111925
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/19/25 16:39	VL111925
71-43-2	Benzene	0.23	0.73	J	2	0.51	3.19	11/19/25 16:39	VL111925
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/19/25 16:39	VL111925
79-01-6	Trichloroethene	0.080	0.43		2	0.27	0.32	11/19/25 16:39	VL111925
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/19/25 16:39	VL111925
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/19/25 16:39	VL111925
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	U	2	0.78	4.10	11/19/25 16:39	VL111925
108-88-3	Toluene	0.33	1.24	J	2	1.21	3.77	11/19/25 16:39	VL111925
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/19/25 16:39	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/19/25 16:39	VL111925
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/19/25 16:39	VL111925
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/19/25 16:39	VL111925
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/19/25 16:39	VL111925
127-18-4	Tetrachloroethene	18.5	125		2	0.20	0.41	11/19/25 16:39	VL111925
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/19/25 16:39	VL111925
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/19/25 16:39	VL111925
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/19/25 16:39	VL111925
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/19/25 16:39	VL111925
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/19/25 16:39	VL111925
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/19/25 16:39	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/19/25 16:39	VL111925
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/19/25 16:39	VL111925

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Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	12-SG-2	SDG No.:	Q3626
Lab Sample ID:	Q3626-08	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 16:39	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 16:39	VL111925
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/19/25 16:39	VL111925
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 16:39	VL111925
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 16:39	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/19/25 16:39	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/19/25 16:39	VL111925
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/19/25 16:39	VL111925
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/19/25 16:39	VL111925
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/19/25 16:39	VL111925
110-54-3	Hexane	23.6	83.2		2	1.13	3.52	11/19/25 16:39	VL111925
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/19/25 16:39	VL111925
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/19/25 16:39	VL111925
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/19/25 16:39	VL111925
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	106000							
540-36-3	1,4-Difluorobenzene	292000							
3114-55-4	Chlorobenzene-d5	226000							

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\VL111925\
Data File : VL043242.D
Acq On : 19 Nov 2025 16:39
Operator : SY/MD
Sample : Q3626-08 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:07:09 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 :
12-SG-2

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	2.780	49	105972	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	291718	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	225662	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	163410	9.879	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	4114	0.275	ppbv		90
4) Chloromethane	1.531	50	1064	0.190	ppbv	#	30
9) Propene	1.486	41	2573	0.412	ppbv	#	1
11) Trichlorofluoromethane	1.874	101	1791	0.124	ppbv		98
13) Ethanol	1.719	45	21091	9.609	ppbv		98
15) Acetone	1.832	43	203704	13.836	ppbv		98
19) Isopropyl Alcohol	1.884	45	9293	1.117	ppbv	#	1
20) Methylene Chloride	2.059	84	72858	17.373	ppbv		94
26) Hexane	2.823	57	164266	11.799	ppbv	#	41
34) 2-Butanone	2.554	43	5323	0.258	ppbv		93
35) Carbon Tetrachloride	3.755	117	811m	0.037	ppbv		
36) Benzene	3.648	78	3190	0.114	ppbv	#	94
38) Trichloroethene	4.538	130	413m	0.038	ppbv		
52) Tetrachloroethene	8.215	164	96249	9.262	ppbv		98
53) Toluene	6.923	91	5521m	0.167	ppbv		

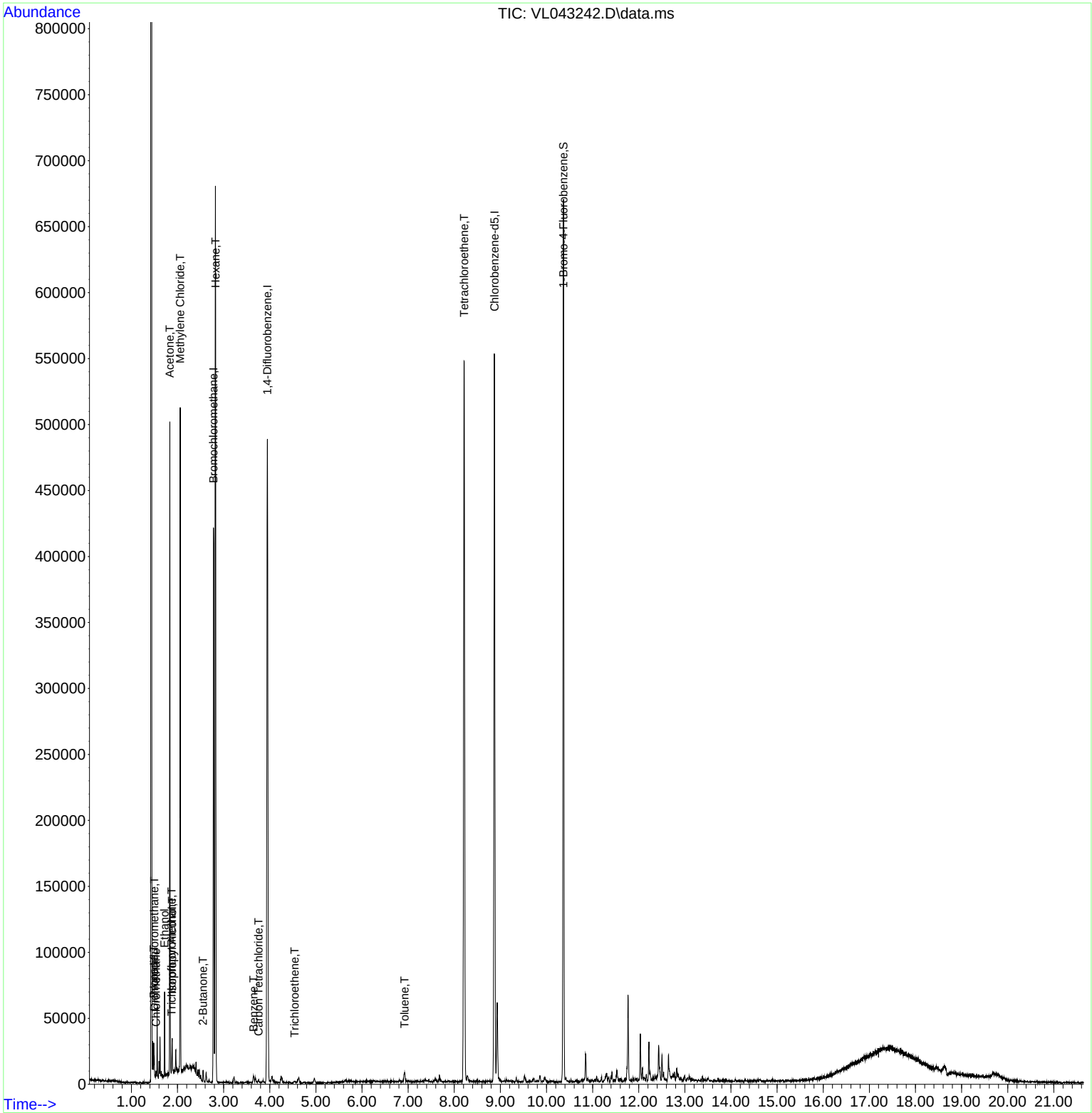
(#) = qualifier out of range (m) = manual integration (+) = signals summed

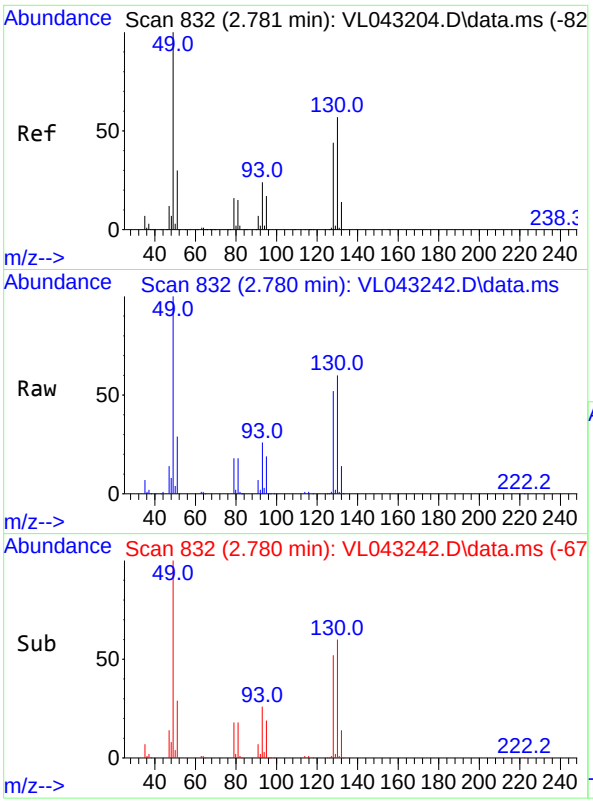
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043242.D
Acq On : 19 Nov 2025 16:39
Operator : SY/MD
Sample : Q3626-08 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:07:09 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 :
12-SG-2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

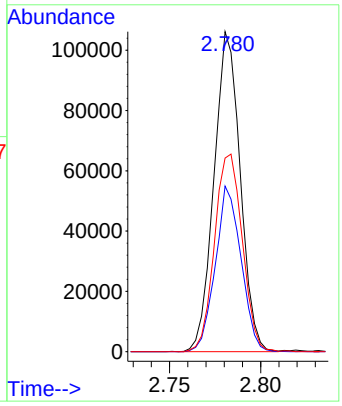




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.001 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 49 Resp: 10597

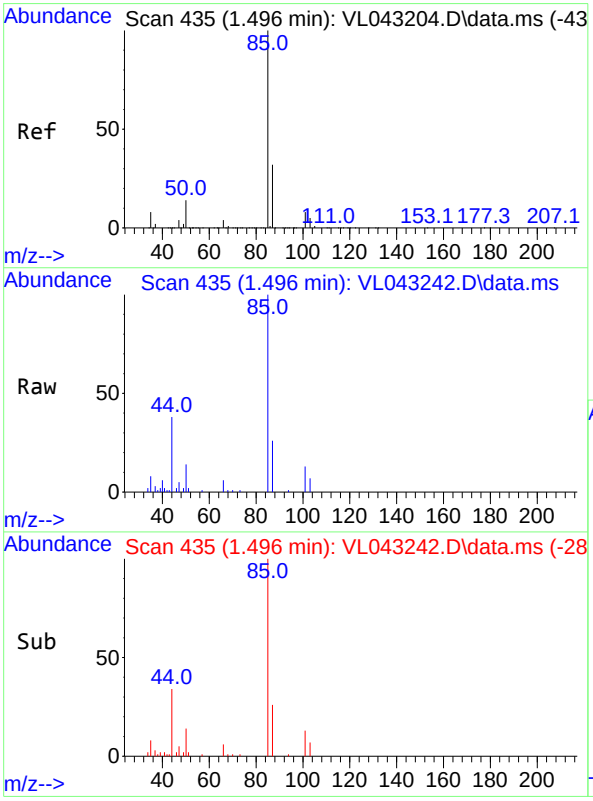
Ion	Ratio	Lower	Upper
49	100		
128	50.7	23.0	69.0
130	65.5	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Manual Integrations
APPROVED

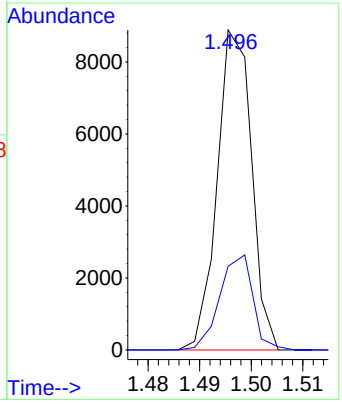
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

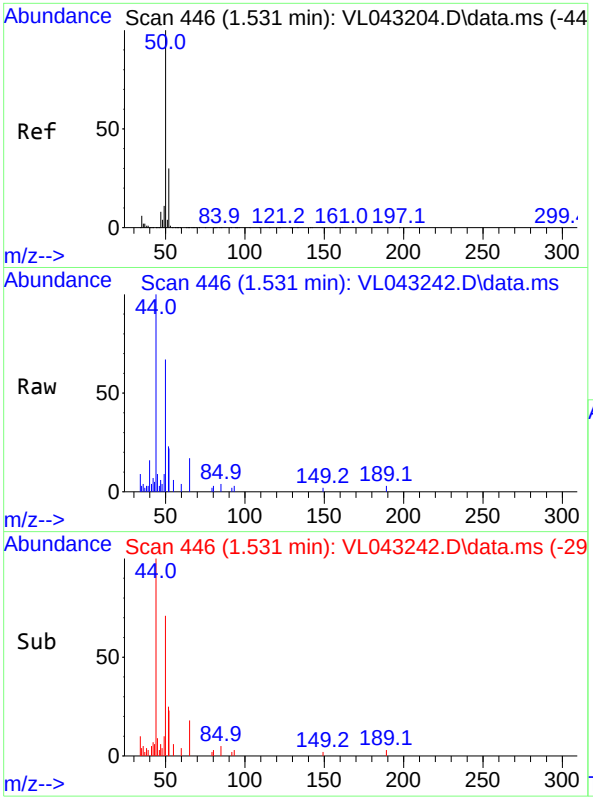


#2
Dichlorodifluoromethane
Concen: 0.275 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 85 Resp: 4114

Ion	Ratio	Lower	Upper
85	100		
87	26.2	25.4	38.2





#4
Chloromethane
Concen: 0.190 ppbv
RT: 1.531 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

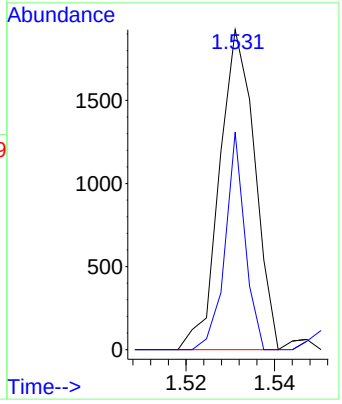
Tgt Ion: 50 Resp: 106

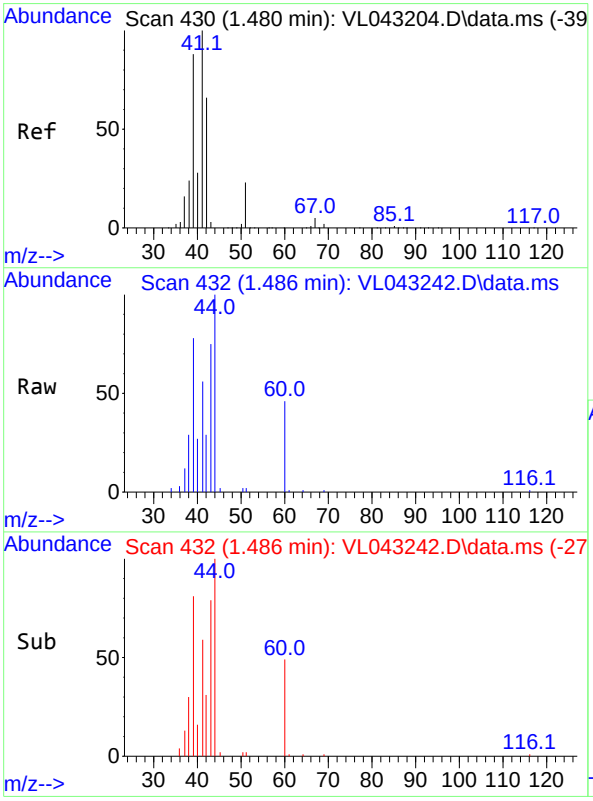
Ion	Ratio	Lower	Upper
50	100		
52	68.0	24.1	36.1#

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

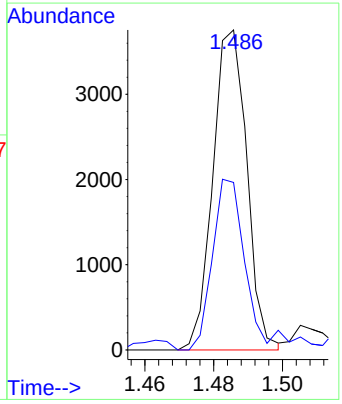


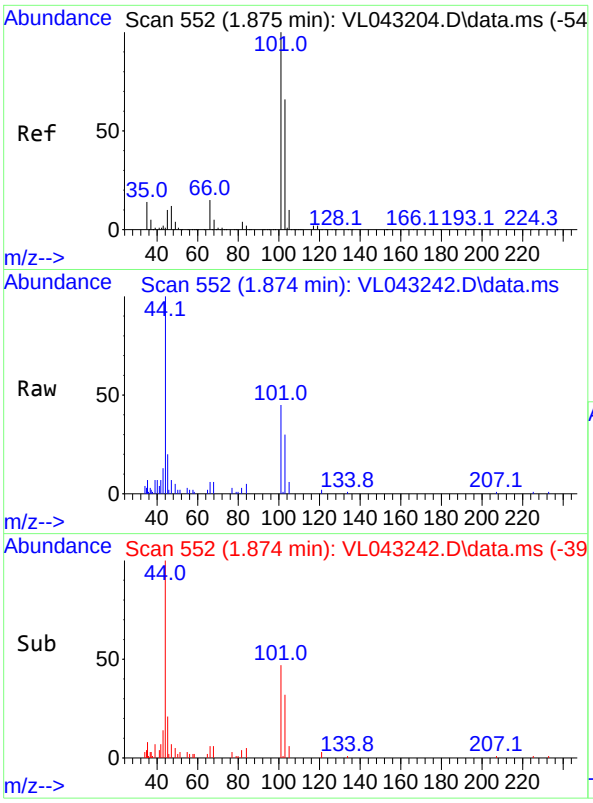


#9
Propene
Concen: 0.412 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 41 Resp: 2573

Ion	Ratio	Lower	Upper
41	100		
42	57.6	3.7	5.5#

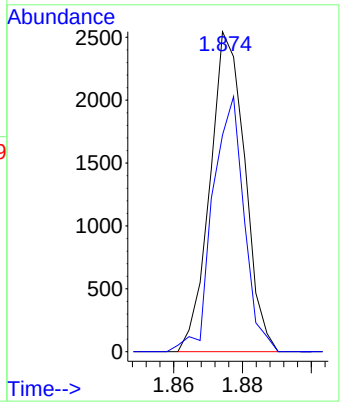




#11
Trichlorofluoromethane
Concen: 0.124 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion:101 Resp: 179

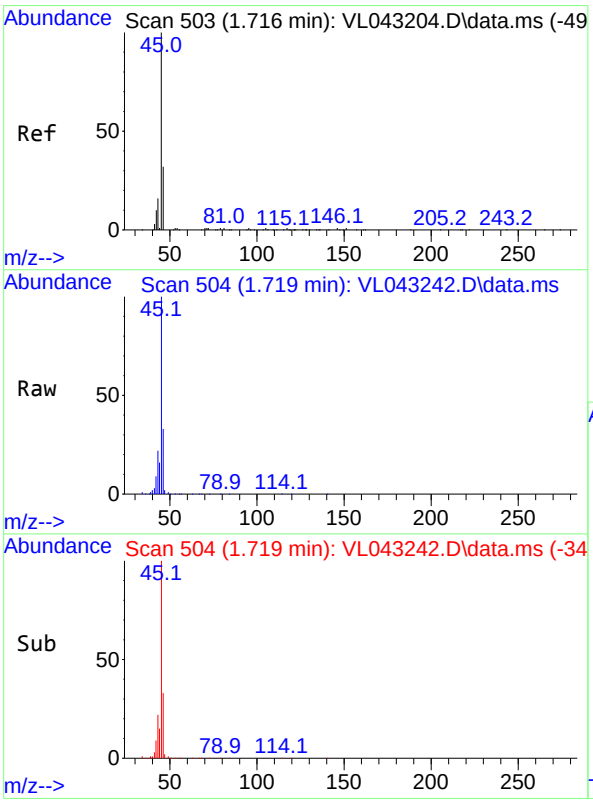
Ion	Ratio	Lower	Upper
101	100		
103	67.7	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Manual Integrations
APPROVED

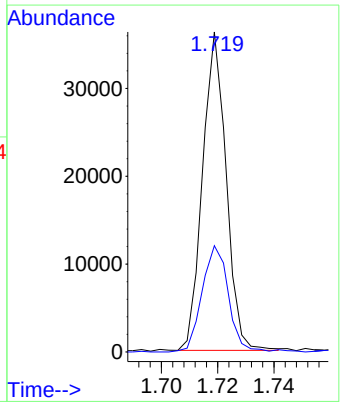
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

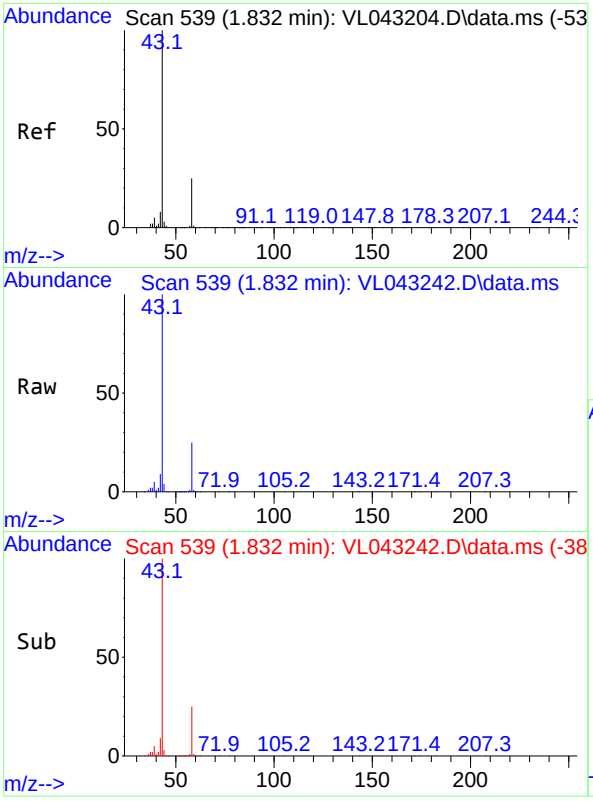


#13
Ethanol
Concen: 9.609 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 45 Resp: 21091

Ion	Ratio	Lower	Upper
45	100		
46	38.4	15.0	59.8

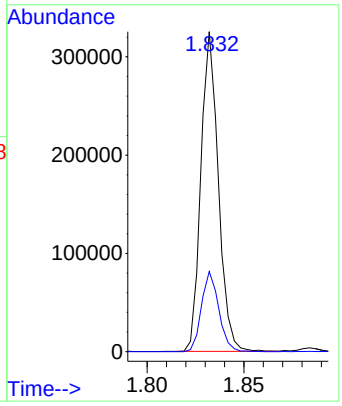




#15
Acetone
Concen: 13.836 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 43 Resp: 20370

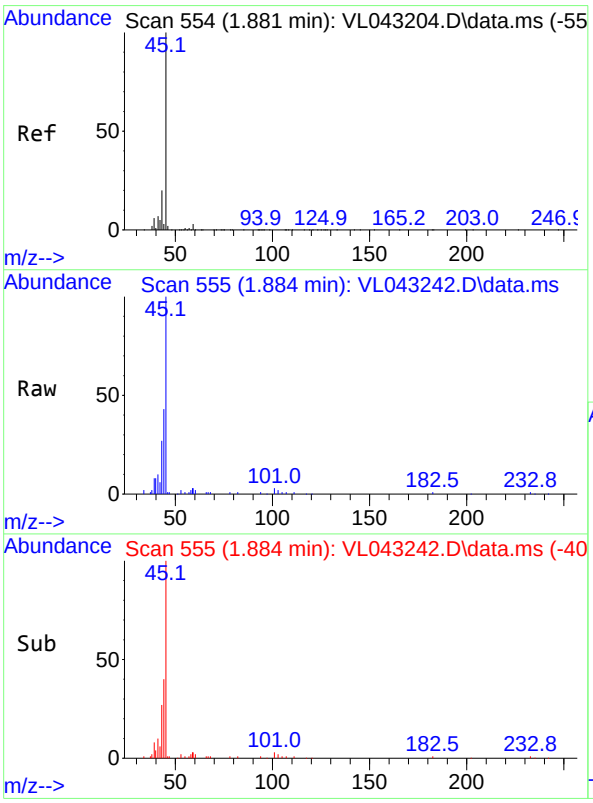
Ion	Ratio	Lower	Upper
43	100		
58	24.8	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Manual Integrations
APPROVED

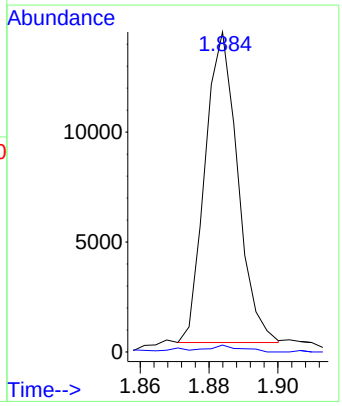
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

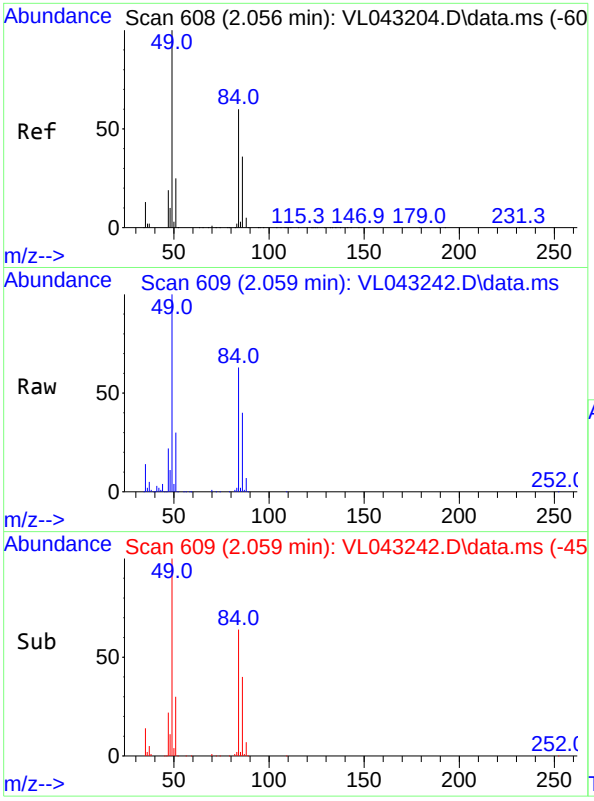


#19
Isopropyl Alcohol
Concen: 1.117 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 45 Resp: 9293

Ion	Ratio	Lower	Upper
45	100		
58	544.2	31.3	46.9#

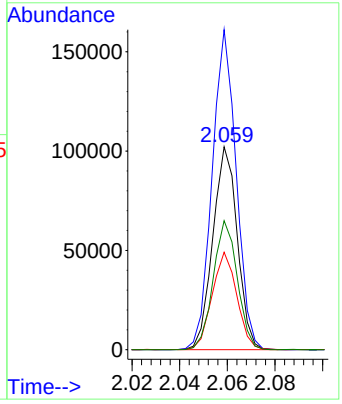




#20
Methylene Chloride
Concen: 17.373 ppbv
RT: 2.059 min Scan# 6(
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 84 Resp: 7285

Ion	Ratio	Lower	Upper
84	100		
49	157.6	132.9	199.3
51	47.9	34.8	52.2
86	63.6	48.2	72.2



Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Manual Integrations
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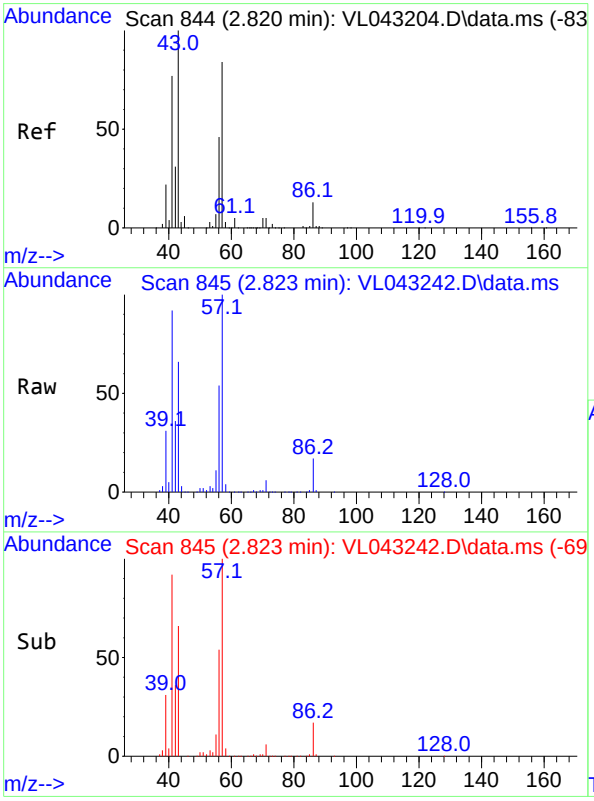
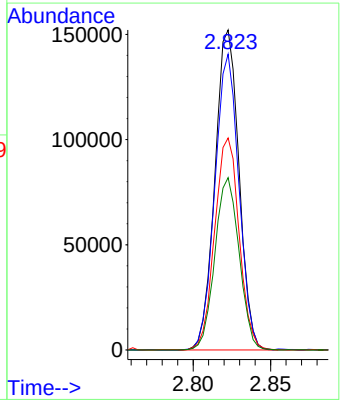
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

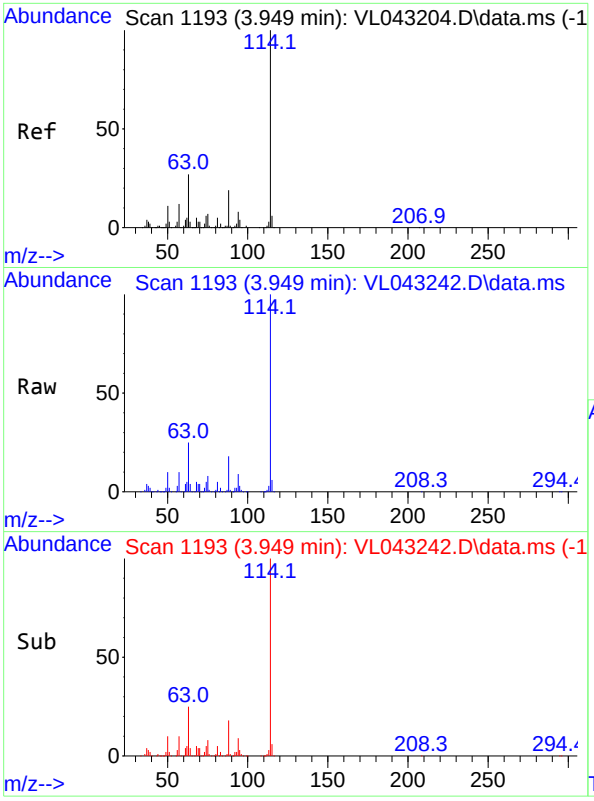


#26
Hexane
Concen: 11.799 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 57 Resp: 164266

Ion	Ratio	Lower	Upper
57	100		
41	92.6	74.6	111.8
43	67.4	179.0	268.4#
56	54.4	42.3	63.5

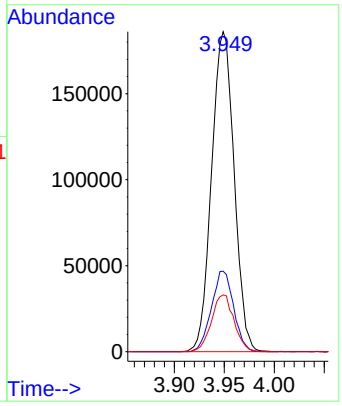




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion:114 Resp: 29171

Ion	Ratio	Lower	Upper
114	100		
63	24.8	21.0	31.6
88	17.7	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Manual Integrations
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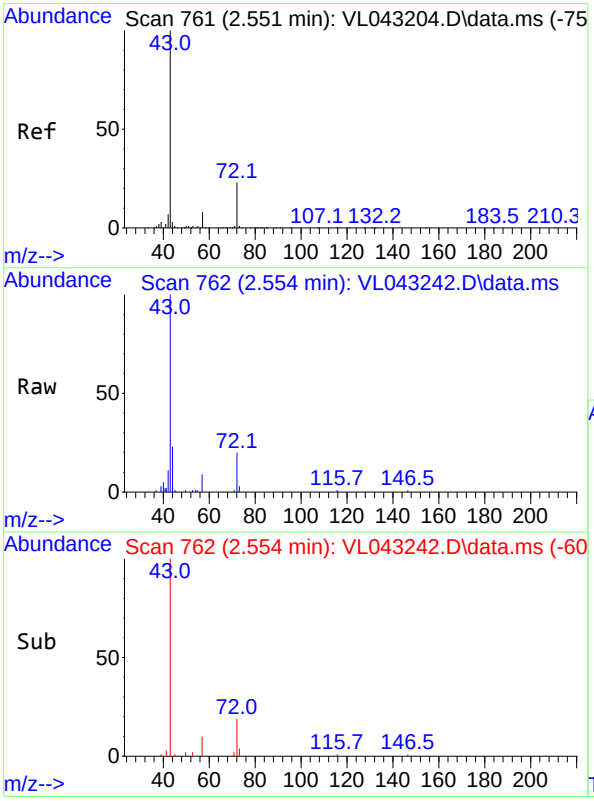
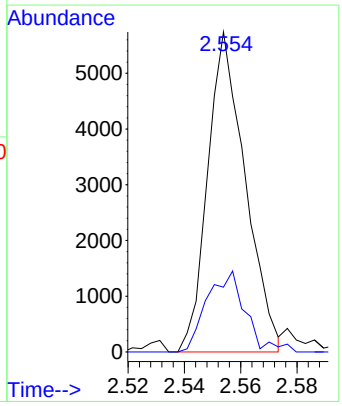
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

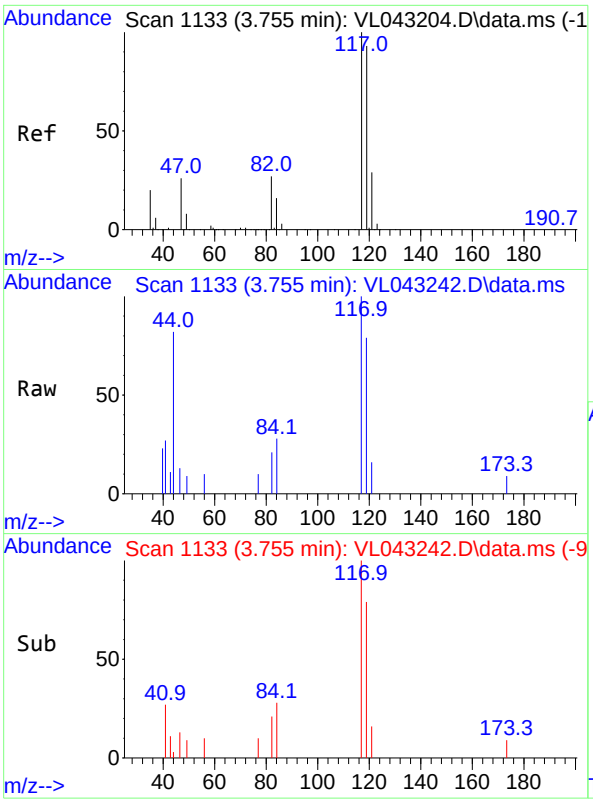


#34
2-Butanone
Concen: 0.258 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 43 Resp: 5323

Ion	Ratio	Lower	Upper
43	100		
72	25.9	18.1	27.1

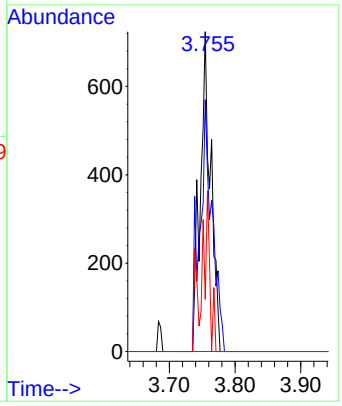




#35
Carbon Tetrachloride
Concen: 0.037 ppbv m
RT: 3.755 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion:117 Resp: 81

Ion	Ratio	Lower	Upper
117	100		
119	78.7	74.6	112.0
121	16.3	23.2	34.8#



Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Manual Integrations
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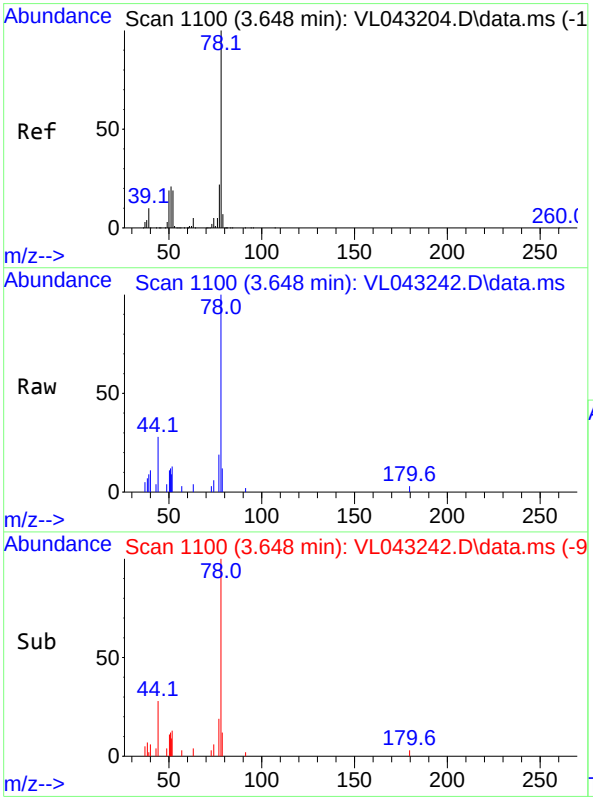
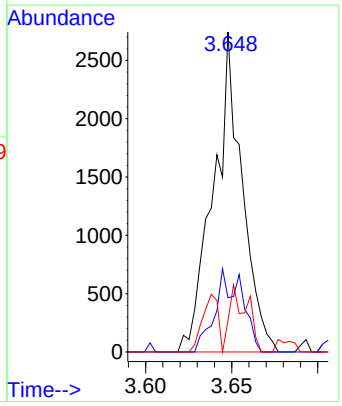
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

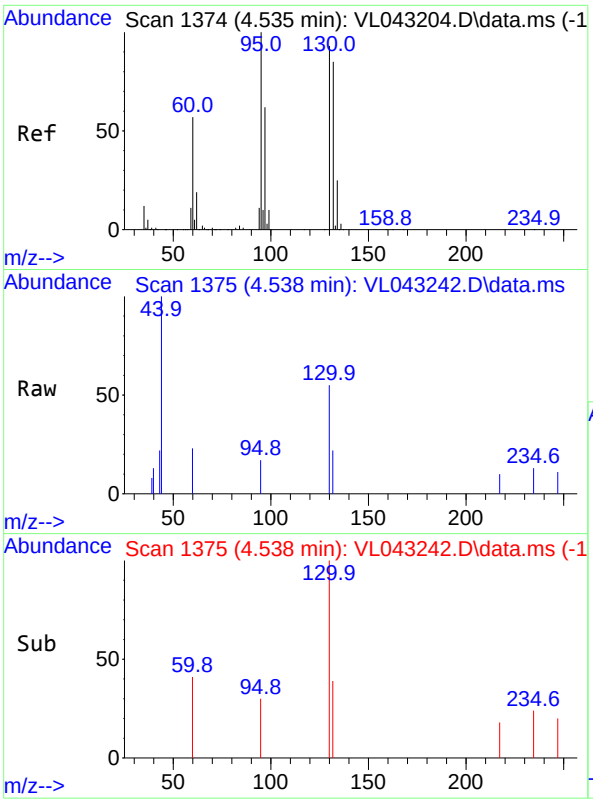


#36
Benzene
Concen: 0.114 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 78 Resp: 3190

Ion	Ratio	Lower	Upper
78	100		
77	16.9	17.5	26.3#
50	20.3	15.5	23.3

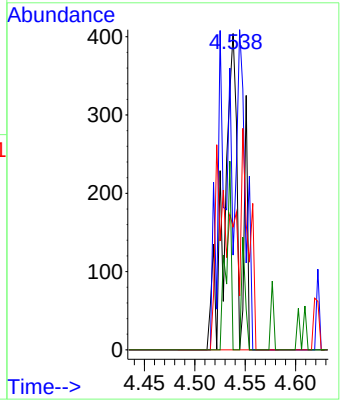




#38
Trichloroethene
Concen: 0.038 ppbv m
RT: 4.538 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion:130 Resp: 41

Ion	Ratio	Lower	Upper
130	100		
95	30.0	85.7	128.5#
132	38.9	73.4	110.0#
97	0.0	52.7	79.1#



Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Manual Integrations
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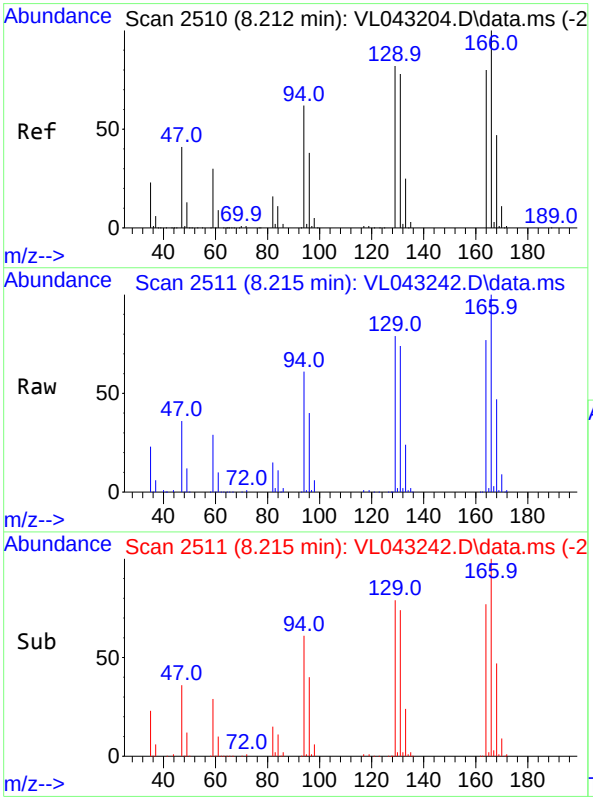
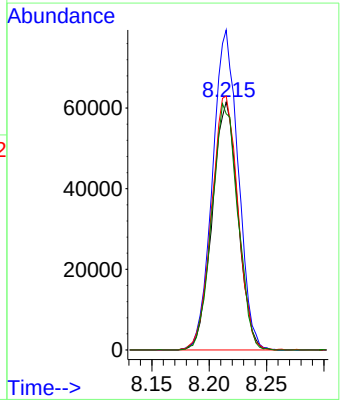
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

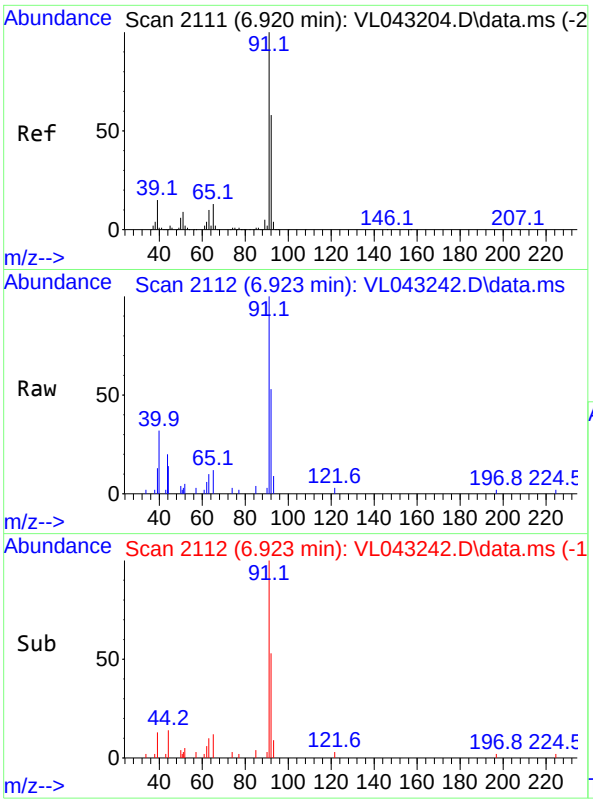


#52
Tetrachloroethene
Concen: 9.262 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion:164 Resp: 96249

Ion	Ratio	Lower	Upper
164	100		
166	129.0	99.4	149.2
129	102.4	81.8	122.8
131	95.2	77.4	116.2

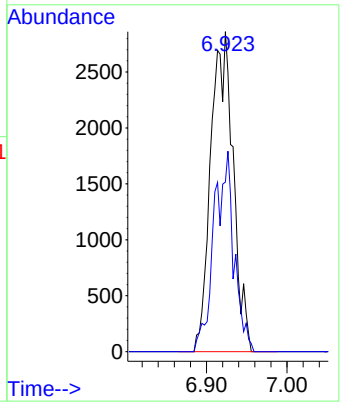




#53
Toluene
Concen: 0.167 ppbv m
RT: 6.923 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 91 Resp: 552

Ion	Ratio	Lower	Upper
91	100		
92	55.9	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Manual Integrations
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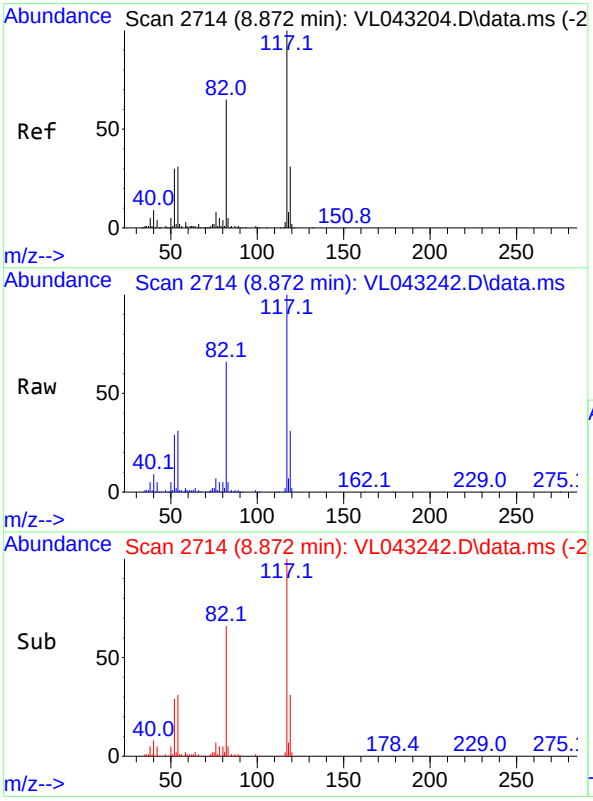
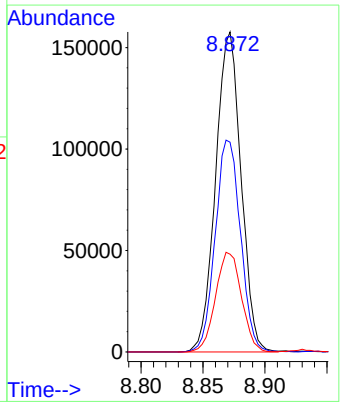
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

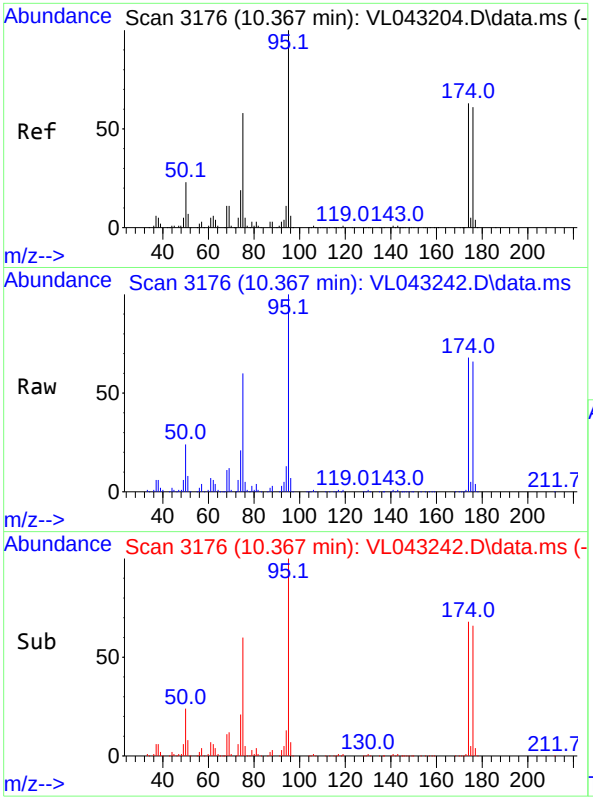


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion:117 Resp: 225662

Ion	Ratio	Lower	Upper
117	100		
82	66.0	56.1	84.1
119	31.8	25.0	37.6

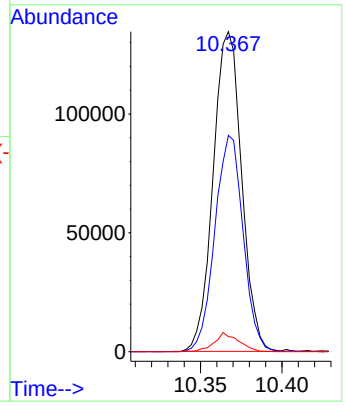




#68
1-Bromo-4-Fluorobenzene
Concen: 9.879 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 95 Resp: 16341

Ion	Ratio	Lower	Upper
95	100		
174	67.3	50.2	75.2
175	5.1	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	12-SG-2DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-08DL	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	0.55	2.72	UD	5	2.72	12.4	11/19/25 22:39	VL111925
74-87-3	Chloromethane	0.49	1.01	UD	5	1.01	5.16	11/19/25 22:39	VL111925
75-01-4	Vinyl Chloride	0.13	0.33	UD	5	0.33	0.38	11/19/25 22:39	VL111925
74-83-9	Bromomethane	0.39	1.51	UD	5	1.51	9.71	11/19/25 22:39	VL111925
75-00-3	Chloroethane	0.75	1.98	UD	5	1.98	6.60	11/19/25 22:39	VL111925
109-99-9	Tetrahydrofuran	0.40	1.18	UD	5	1.18	7.37	11/19/25 22:39	VL111925
75-69-4	Trichlorofluoromethane	0.85	4.78	UD	5	4.78	14.1	11/19/25 22:39	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.70	5.37	UD	5	5.37	19.2	11/19/25 22:39	VL111925
76-14-2	Dichlorotetrafluoroethane	0.75	5.24	UD	5	5.24	17.5	11/19/25 22:39	VL111925
75-65-0	tert-Butyl alcohol	0.80	2.43	UD	5	2.43	7.58	11/19/25 22:39	VL111925
142-82-5	Heptane	0.85	3.48	UD	5	3.48	10.3	11/19/25 22:39	VL111925
75-35-4	1,1-Dichloroethene	0.75	2.97	UD	5	2.97	9.91	11/19/25 22:39	VL111925
67-64-1	Acetone	32.3	76.7	D	5	2.14	5.94	11/19/25 22:39	VL111925
75-15-0	Carbon Disulfide	0.40	1.25	UD	5	1.25	7.79	11/19/25 22:39	VL111925
1634-04-4	Methyl tert-Butyl Ether	1.20	4.33	UD	5	4.33	9.01	11/19/25 22:39	VL111925
75-09-2	Methylene Chloride	25.4	88.2	D	5	4.17	8.69	11/19/25 22:39	VL111925
156-60-5	trans-1,2-Dichloroethene	0.60	2.38	UD	5	2.38	9.91	11/19/25 22:39	VL111925
75-34-3	1,1-Dichloroethane	0.65	2.63	UD	5	2.63	10.1	11/19/25 22:39	VL111925
110-82-7	Cyclohexane	1.10	3.79	UD	5	3.79	8.61	11/19/25 22:39	VL111925
78-93-3	2-Butanone	0.59	1.74	JD	5	0.83	7.37	11/19/25 22:39	VL111925
56-23-5	Carbon Tetrachloride	0.13	0.82	UD	5	0.82	0.94	11/19/25 22:39	VL111925
156-59-2	cis-1,2-Dichloroethene	0.50	1.98	UD	5	1.98	9.91	11/19/25 22:39	VL111925
67-66-3	Chloroform	0.48	2.34	UD	5	2.34	12.2	11/19/25 22:39	VL111925
71-55-6	1,1,1-Trichloroethane	0.080	0.44	UD	5	0.44	0.82	11/19/25 22:39	VL111925
540-84-1	2,2,4-Trimethylpentane	0.70	3.27	UD	5	3.27	11.7	11/19/25 22:39	VL111925
71-43-2	Benzene	0.40	1.28	UD	5	1.28	7.99	11/19/25 22:39	VL111925
107-06-2	1,2-Dichloroethane	0.47	1.90	UD	5	1.90	10.1	11/19/25 22:39	VL111925
79-01-6	Trichloroethene	0.12	0.64	UD	5	0.64	0.81	11/19/25 22:39	VL111925
78-87-5	1,2-Dichloropropane	0.65	3.00	UD	5	3.00	11.6	11/19/25 22:39	VL111925
75-27-4	Bromodichloromethane	0.32	2.14	UD	5	2.14	16.8	11/19/25 22:39	VL111925
108-10-1	4-Methyl-2-Pentanone	0.49	2.01	UD	5	2.01	10.3	11/19/25 22:39	VL111925
108-88-3	Toluene	0.80	3.01	UD	5	3.01	9.42	11/19/25 22:39	VL111925
10061-02-6	t-1,3-Dichloropropene	0.75	3.40	UD	5	3.40	11.3	11/19/25 22:39	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.55	2.50	UD	5	2.50	11.3	11/19/25 22:39	VL111925
79-00-5	1,1,2-Trichloroethane	0.41	2.24	UD	5	2.24	13.6	11/19/25 22:39	VL111925
124-48-1	Dibromochloromethane	0.43	3.66	UD	5	3.66	21.3	11/19/25 22:39	VL111925
106-93-4	1,2-Dibromoethane	0.43	3.30	UD	5	3.30	3.84	11/19/25 22:39	VL111925
127-18-4	Tetrachloroethene	24.5	166	D	5	0.54	1.02	11/19/25 22:39	VL111925
108-90-7	Chlorobenzene	0.39	1.80	UD	5	1.80	11.5	11/19/25 22:39	VL111925
100-41-4	Ethyl Benzene	0.95	4.13	UD	5	4.13	10.9	11/19/25 22:39	VL111925
179601-23-1	m/p-Xylene	2.10	9.12	UD	5	9.12	21.7	11/19/25 22:39	VL111925
95-47-6	o-Xylene	1.10	4.78	UD	5	4.78	10.9	11/19/25 22:39	VL111925
100-42-5	Styrene	0.80	3.41	UD	5	3.41	10.6	11/19/25 22:39	VL111925
75-25-2	Bromoform	0.24	2.48	UD	5	2.48	25.9	11/19/25 22:39	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.090	0.62	UD	5	0.62	1.03	11/19/25 22:39	VL111925
95-49-8	2-Chlorotoluene	0.85	4.40	UD	5	4.40	12.9	11/19/25 22:39	VL111925

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Fax : 908 789 8922

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	12-SG-2DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-08DL	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	0.90	4.42	UD	5	4.42	12.3	11/19/25 22:39	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.90	4.42	UD	5	4.42	12.3	11/19/25 22:39	VL111925
541-73-1	1,3-Dichlorobenzene	0.27	1.62	UD	5	1.62	15.0	11/19/25 22:39	VL111925
106-46-7	1,4-Dichlorobenzene	0.65	3.91	UD	5	3.91	15.0	11/19/25 22:39	VL111925
95-50-1	1,2-Dichlorobenzene	0.65	3.91	UD	5	3.91	15.0	11/19/25 22:39	VL111925
120-82-1	1,2,4-Trichlorobenzene	1.10	8.17	UD	5	8.17	18.6	11/19/25 22:39	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.65	6.93	UD	5	6.93	26.7	11/19/25 22:39	VL111925
106-99-0	1,3-Butadiene	0.26	0.58	UD	5	0.58	5.53	11/19/25 22:39	VL111925
91-20-3	Naphthalene	0.070	0.37	UD	5	0.37	2.62	11/19/25 22:39	VL111925
622-96-8	4-Ethyltoluene	1.10	5.41	UD	5	5.41	12.3	11/19/25 22:39	VL111925
110-54-3	Hexane	9.80	34.5	D	5	2.82	8.81	11/19/25 22:39	VL111925
107-05-1	Allyl Chloride	0.55	1.72	UD	5	1.72	7.83	11/19/25 22:39	VL111925
123-91-1	1,4-Dioxane	1.10	3.96	UD	5	3.96	9.01	11/19/25 22:39	VL111925
80-62-6	Methyl Methacrylate	0.70	2.87	UD	5	2.87	10.2	11/19/25 22:39	VL111925
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	100000							
540-36-3	1,4-Difluorobenzene	270000							
3114-55-4	Chlorobenzene-d5	209000							

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\VL111925\
Data File : VL043252.D
Acq On : 19 Nov 2025 22:39
Operator : SY/MD
Sample : Q3626-08DL 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

Quant Time: Nov 20 00:12:39 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 01:11:25 2025
Response via : Initial Calibration

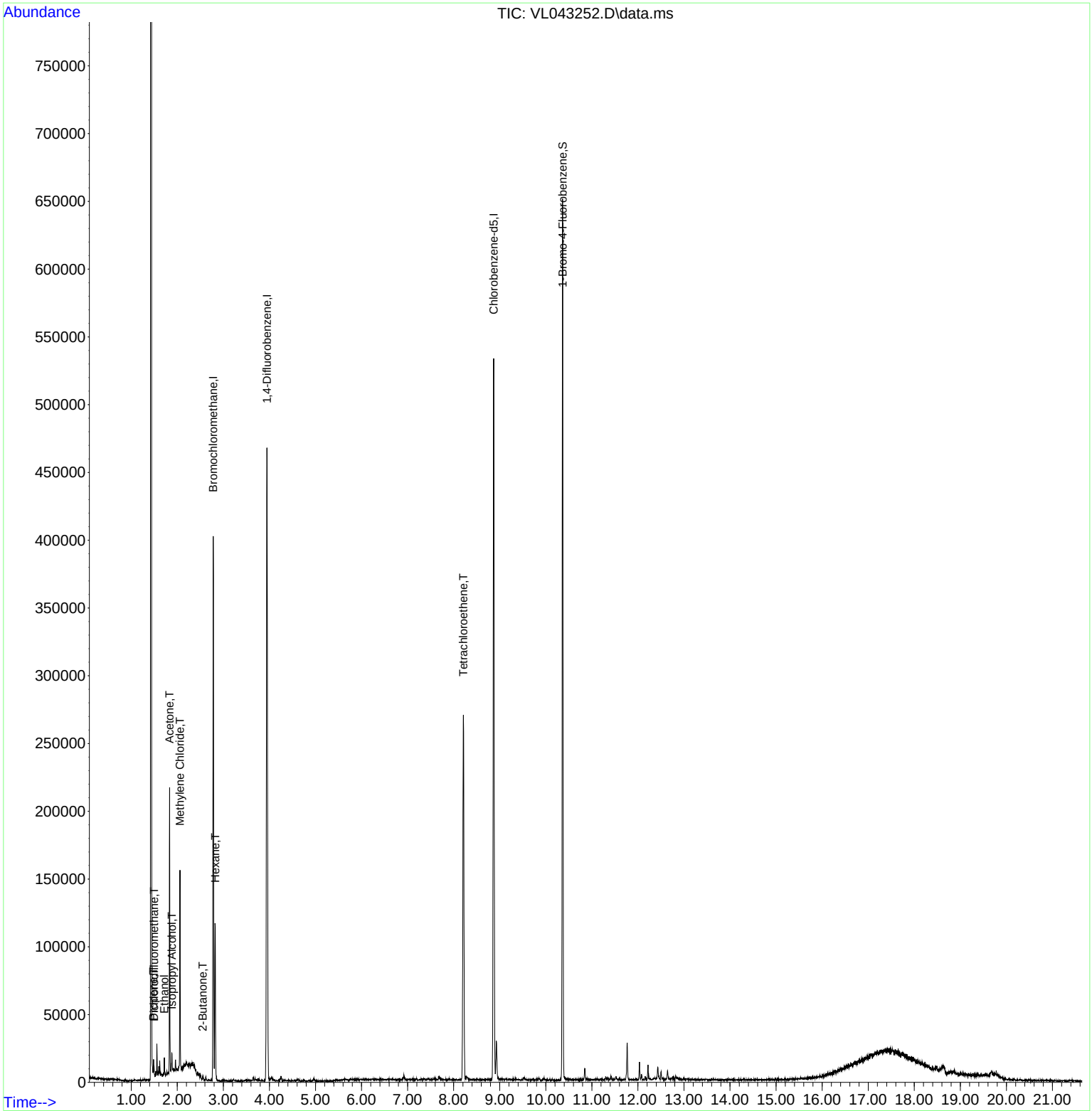
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	100214	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.946	114	269502	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.869	117	209321	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.364	95	155026	10.104	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	1486	0.105	ppbv		97
9) Propene	1.483	41	1075	0.182	ppbv	#	1
13) Ethanol	1.719	45	4797	2.311	ppbv	#	38
15) Acetone	1.832	43	89834	6.452	ppbv		98
19) Isopropyl Alcohol	1.884	45	4878	0.620	ppbv	#	1
20) Methylene Chloride	2.059	84	22446	5.085	ppbv		92
26) Hexane	2.823	57	25725	1.954	ppbv	#	42
34) 2-Butanone	2.554	43	2247	0.118	ppbv	#	84
52) Tetrachloroethene	8.208	164	47059	4.902	ppbv		94

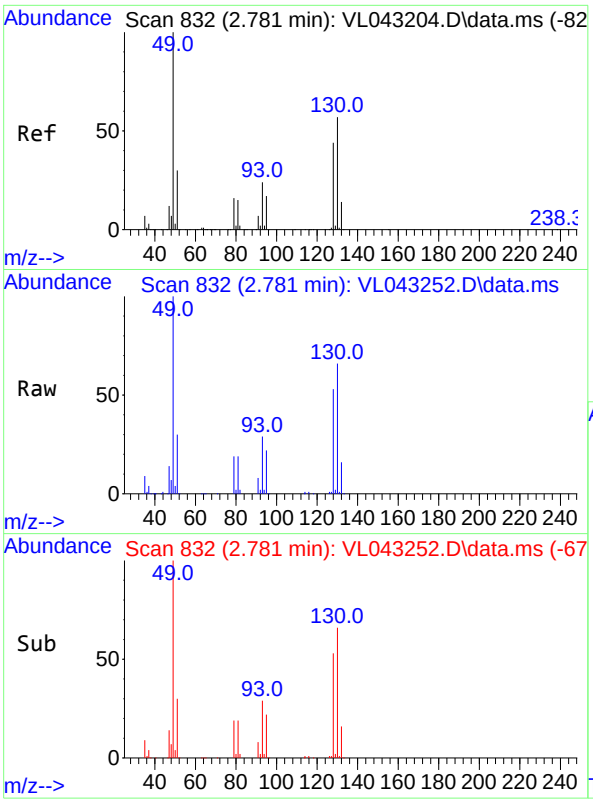
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043252.D
Acq On : 19 Nov 2025 22:39
Operator : SY/MD
Sample : Q3626-08DL 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

Quant Time: Nov 20 00:12:39 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 01:11:25 2025
Response via : Initial Calibration



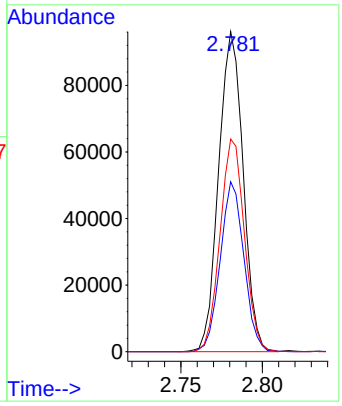


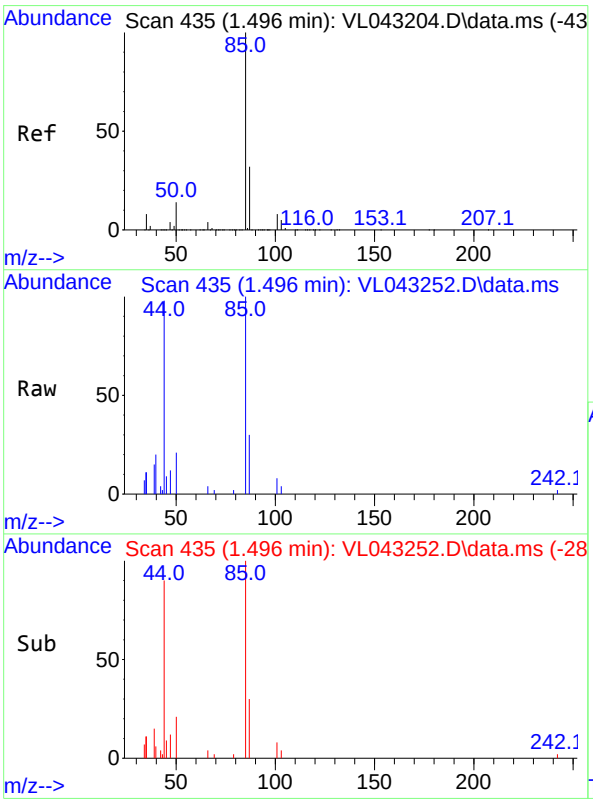
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

Tgt Ion: 49 Resp: 100214

Ion	Ratio	Lower	Upper
49	100		
128	51.4	23.0	69.0
130	66.3	29.9	89.7

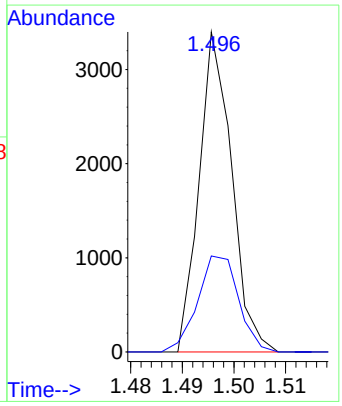


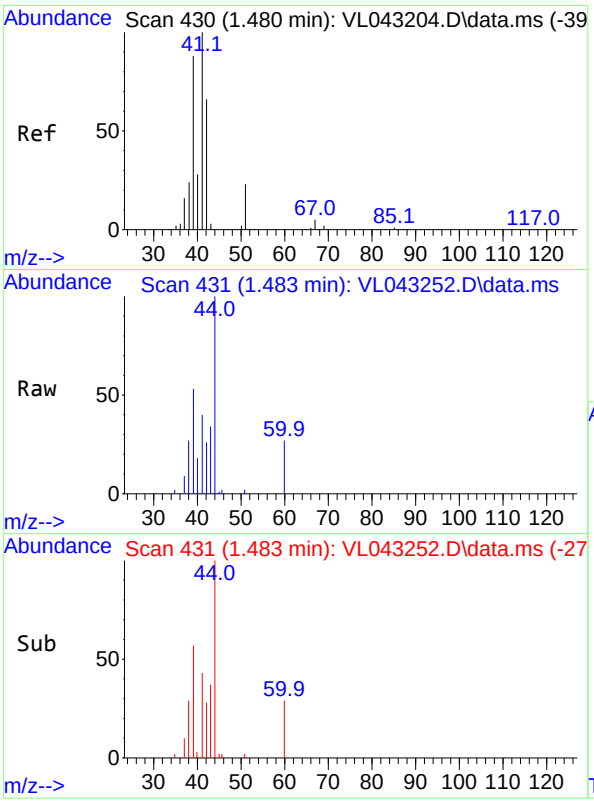


#2
Dichlorodifluoromethane
Concen: 0.105 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion: 85 Resp: 1486

Ion	Ratio	Lower	Upper
85	100		
87	30.0	25.4	38.2



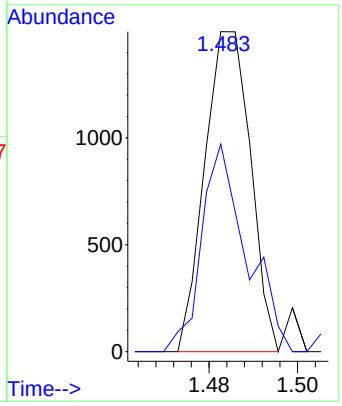


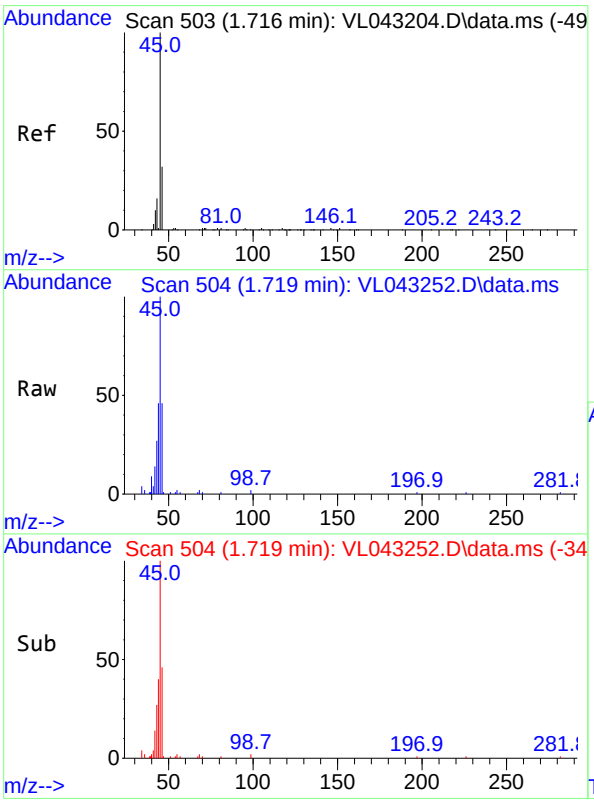
#9
Propene
Concen: 0.182 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

Tgt Ion: 41 Resp: 1075

Ion	Ratio	Lower	Upper
41	100		
42	65.1	3.7	5.5#

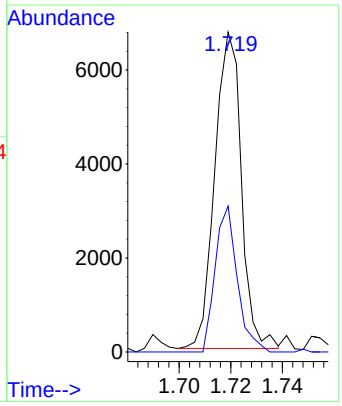


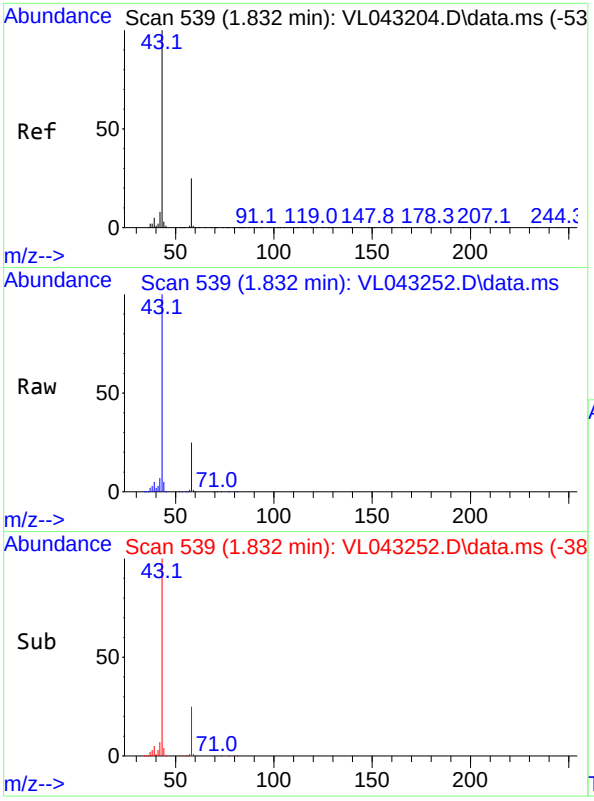


#13
Ethanol
Concen: 2.311 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion: 45 Resp: 4797

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.0	59.8#



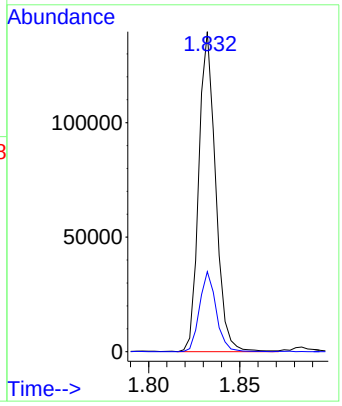


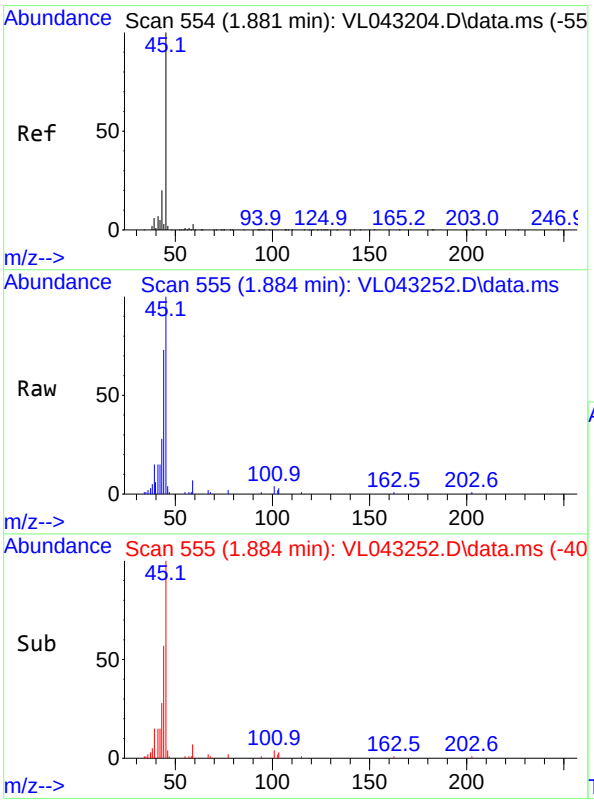
#15
Acetone
Concen: 6.452 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

Tgt Ion: 43 Resp: 89834

Ion	Ratio	Lower	Upper
43	100		
58	24.7	20.7	31.1

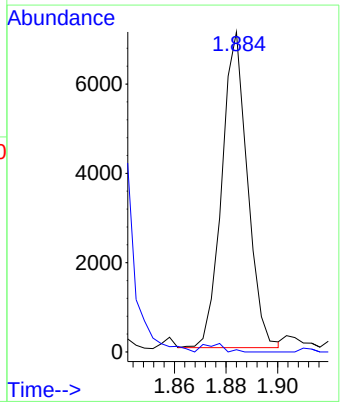


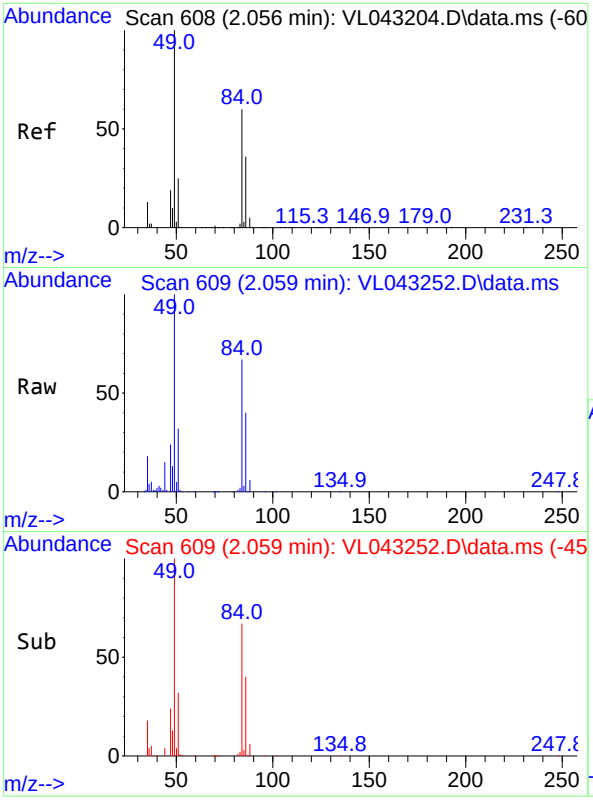


#19
Isopropyl Alcohol
Concen: 0.620 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion: 45 Resp: 4878

Ion	Ratio	Lower	Upper
45	100		
58	455.0	31.3	46.9#



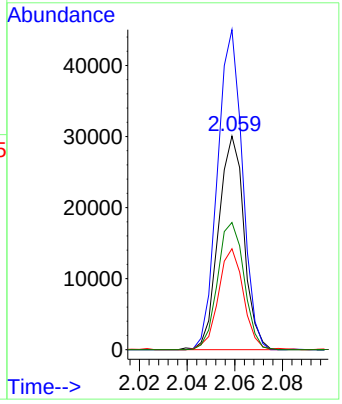


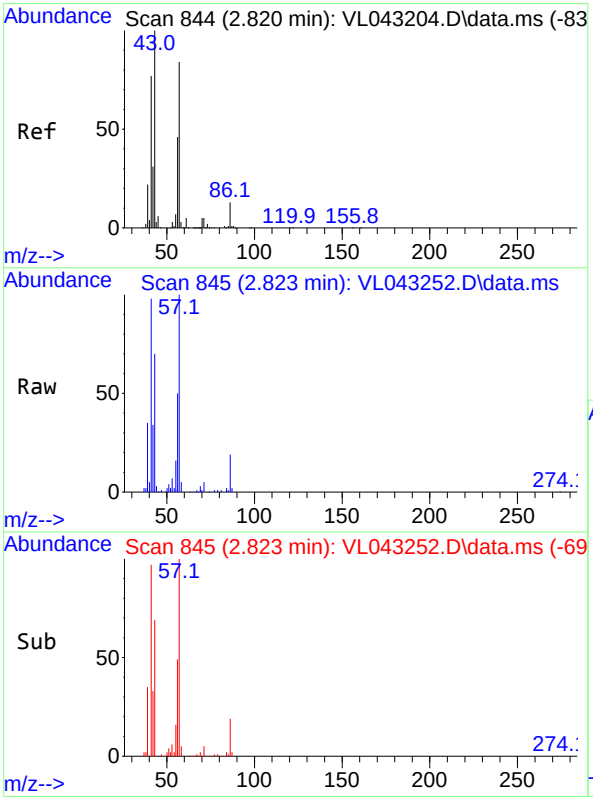
#20
Methylene Chloride
Concen: 5.085 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

Tgt Ion: 84 Resp: 22446

Ion	Ratio	Lower	Upper
84	100		
49	149.8	132.9	199.3
51	47.0	34.8	52.2
86	59.6	48.2	72.2

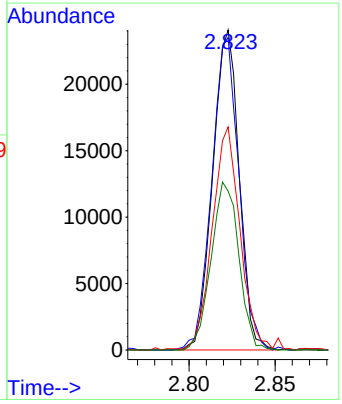


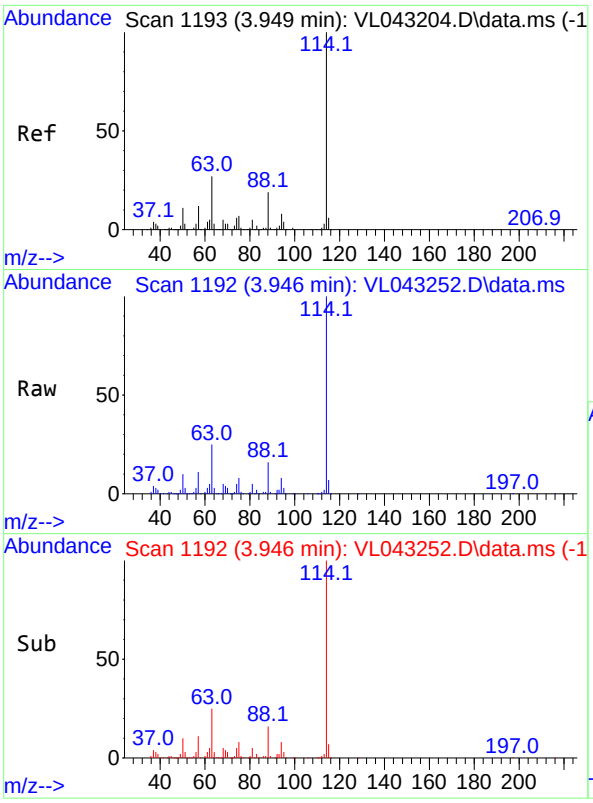


#26
Hexane
Concen: 1.954 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion: 57 Resp: 25725

Ion	Ratio	Lower	Upper
57	100		
41	100.9	74.6	111.8
43	74.3	179.0	268.4#
56	55.0	42.3	63.5



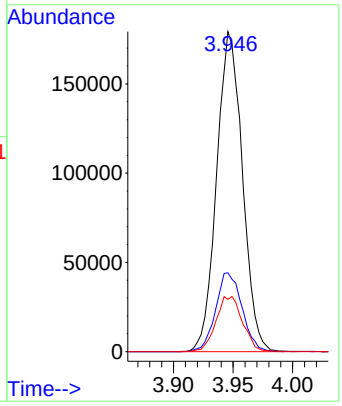


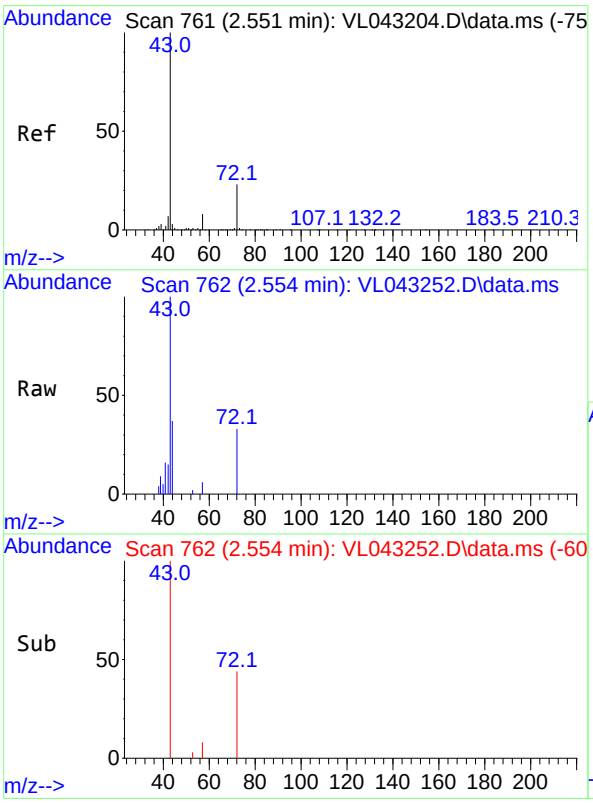
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

Tgt Ion:114 Resp: 269502

Ion	Ratio	Lower	Upper
114	100		
63	25.3	21.0	31.6
88	17.8	14.9	22.3

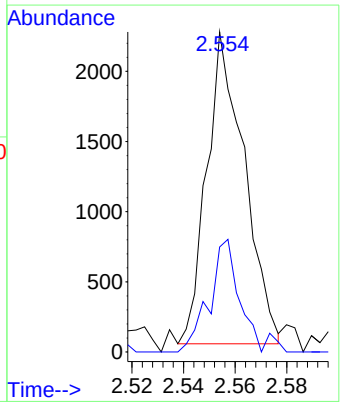


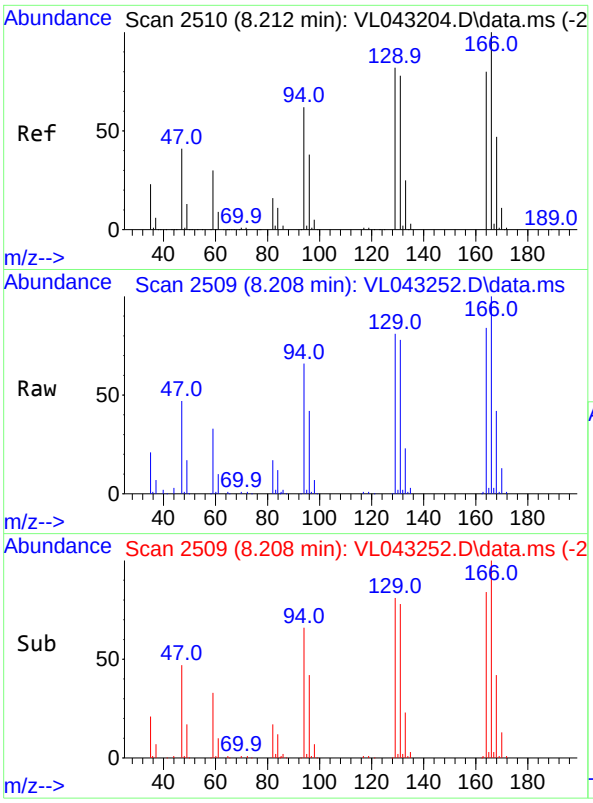


#34
2-Butanone
Concen: 0.118 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion: 43 Resp: 2247

Ion	Ratio	Lower	Upper
43	100		
72	30.1	18.1	27.1#



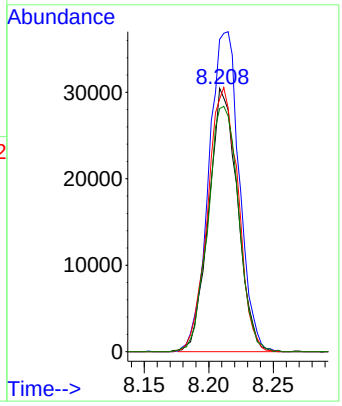


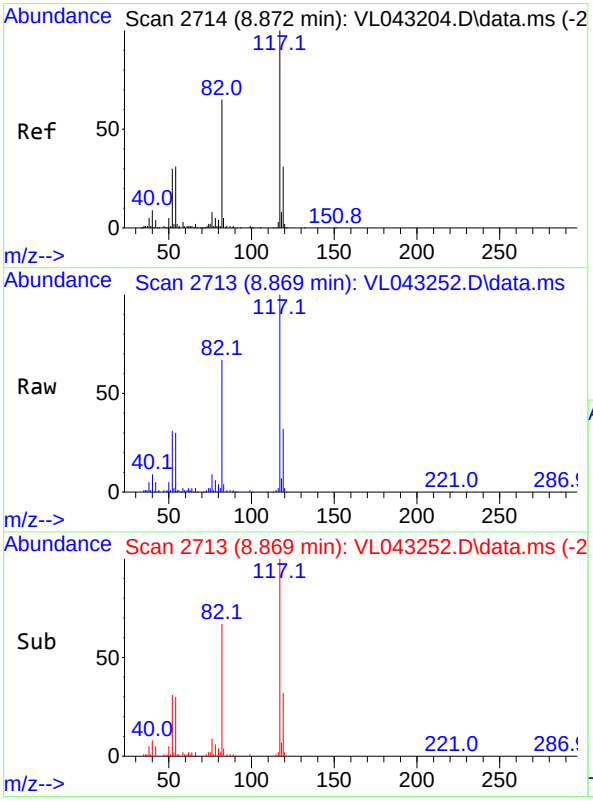
#52
Tetrachloroethene
Concen: 4.902 ppbv
RT: 8.208 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

Tgt Ion:164 Resp: 47059

Ion	Ratio	Lower	Upper
164	100		
166	118.3	99.4	149.2
129	95.9	81.8	122.8
131	91.8	77.4	116.2

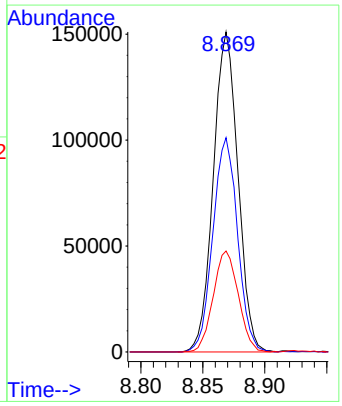


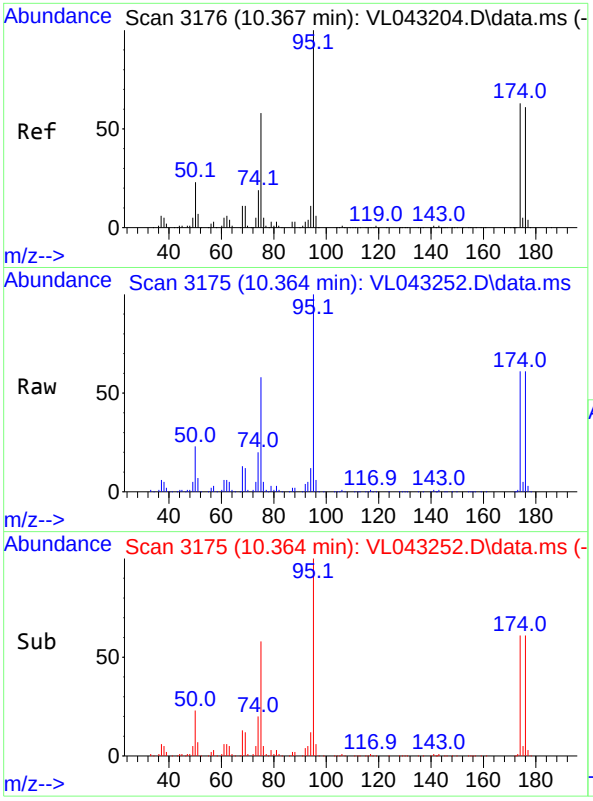


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion:117 Resp: 209321

Ion	Ratio	Lower	Upper
117	100		
82	67.3	56.1	84.1
119	32.6	25.0	37.6



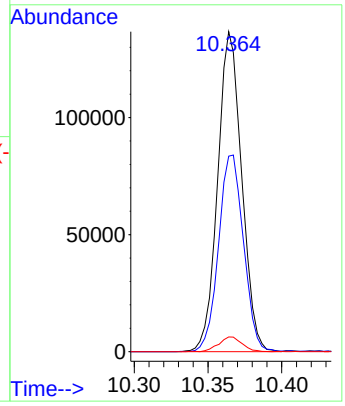


#68
1-Bromo-4-Fluorobenzene
Concen: 10.104 ppbv
RT: 10.364 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

Tgt Ion: 95 Resp: 155026

Ion	Ratio	Lower	Upper
95	100		
174	64.1	50.2	75.2
175	4.5	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:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	13-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-09	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	0.58	2.87	J	2	1.09	4.94	11/19/25 17:13	VL111925
74-87-3	Chloromethane	0.35	0.72	J	2	0.41	2.07	11/19/25 17:13	VL111925
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/19/25 17:13	VL111925
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/19/25 17:13	VL111925
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/19/25 17:13	VL111925
109-99-9	Tetrahydrofuran	0.62	1.83	J	2	0.47	2.95	11/19/25 17:13	VL111925
75-69-4	Trichlorofluoromethane	0.34	1.91	U	2	1.91	5.62	11/19/25 17:13	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/19/25 17:13	VL111925
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/19/25 17:13	VL111925
75-65-0	tert-Butyl alcohol	3.30	10.0		2	0.97	3.03	11/19/25 17:13	VL111925
142-82-5	Heptane	0.34	1.39	U	2	1.39	4.10	11/19/25 17:13	VL111925
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/19/25 17:13	VL111925
67-64-1	Acetone	82.7	196	E	2	0.86	2.38	11/19/25 17:13	VL111925
75-15-0	Carbon Disulfide	0.64	1.99	J	2	0.50	3.11	11/19/25 17:13	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/19/25 17:13	VL111925
75-09-2	Methylene Chloride	3.80	13.2		2	1.60	3.47	11/19/25 17:13	VL111925
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/19/25 17:13	VL111925
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/19/25 17:13	VL111925
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/19/25 17:13	VL111925
78-93-3	2-Butanone	2.30	6.78		2	0.32	2.95	11/19/25 17:13	VL111925
56-23-5	Carbon Tetrachloride	0.080	0.50		2	0.31	0.38	11/19/25 17:13	VL111925
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/19/25 17:13	VL111925
67-66-3	Chloroform	0.19	0.93	U	2	0.93	4.88	11/19/25 17:13	VL111925
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	2	0.16	0.33	11/19/25 17:13	VL111925
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/19/25 17:13	VL111925
71-43-2	Benzene	1.70	5.43		2	0.51	3.19	11/19/25 17:13	VL111925
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/19/25 17:13	VL111925
79-01-6	Trichloroethene	0.34	1.83		2	0.27	0.32	11/19/25 17:13	VL111925
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/19/25 17:13	VL111925
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/19/25 17:13	VL111925
108-10-1	4-Methyl-2-Pentanone	0.32	1.31	J	2	0.78	4.10	11/19/25 17:13	VL111925
108-88-3	Toluene	0.68	2.56	J	2	1.21	3.77	11/19/25 17:13	VL111925
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/19/25 17:13	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/19/25 17:13	VL111925
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/19/25 17:13	VL111925
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/19/25 17:13	VL111925
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/19/25 17:13	VL111925
127-18-4	Tetrachloroethene	9.80	66.5		2	0.20	0.41	11/19/25 17:13	VL111925
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/19/25 17:13	VL111925
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/19/25 17:13	VL111925
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/19/25 17:13	VL111925
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/19/25 17:13	VL111925
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/19/25 17:13	VL111925
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/19/25 17:13	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/19/25 17:13	VL111925
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/19/25 17:13	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	13-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-09	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 17:13	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 17:13	VL111925
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/19/25 17:13	VL111925
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 17:13	VL111925
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 17:13	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/19/25 17:13	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/19/25 17:13	VL111925
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/19/25 17:13	VL111925
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/19/25 17:13	VL111925
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/19/25 17:13	VL111925
110-54-3	Hexane	2.20	7.75		2	1.13	3.52	11/19/25 17:13	VL111925
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/19/25 17:13	VL111925
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/19/25 17:13	VL111925
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/19/25 17:13	VL111925
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.0				70 (65) - 130 (135)	100% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	102000							
540-36-3	1,4-Difluorobenzene	284000							
3114-55-4	Chlorobenzene-d5	219000							

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\VL111925\
Data File : VL043243.D
Acq On : 19 Nov 2025 17:13
Operator : SY/MD
Sample : Q3626-09 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:07:36 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-SG-1

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	2.787	49	101617	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	283781	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	218981	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	161224	10.044	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	4141	0.289	ppbv		96
3) Chlorodifluoromethane	1.476	51	2857m	0.203	ppbv		
4) Chloromethane	1.531	50	950	0.177	ppbv	#	70
9) Propene	1.489	41	1958	0.327	ppbv	#	86
11) Trichlorofluoromethane	1.878	101	1869m	0.135	ppbv		
13) Ethanol	1.722	45	15848	7.530	ppbv		93
15) Acetone	1.832	43	583978	41.364	ppbv		100
17) tert-Butyl alcohol	2.039	59	30856	1.665	ppbv		97
19) Isopropyl Alcohol	1.884	45	42102m	5.277	ppbv		
20) Methylene Chloride	2.062	84	10486	1.884	ppbv		92
26) Hexane	2.826	57	14958	1.120	ppbv	#	47
27) Carbon Disulfide	2.153	76	4341	0.319	ppbv	#	1
34) 2-Butanone	2.557	43	23268	1.162	ppbv		97
35) Carbon Tetrachloride	3.761	117	903m	0.042	ppbv		
36) Benzene	3.654	78	23107	0.850	ppbv		97
38) Trichloroethene	4.538	130	1830m	0.172	ppbv		
41) Tetrahydrofuran	3.056	42	3440m	0.311	ppbv		
50) 4-Methyl-2-Pentanone	5.762	43	4528m	0.160	ppbv		
52) Tetrachloroethene	8.225	164	49381	4.885	ppbv		98
53) Toluene	6.927	91	10983	0.341	ppbv		99
59) m/p-Xylene	9.526	91	9760m	0.289	ppbv		
60) o-Xylene	9.956	91	4090	0.121	ppbv		95
61) Styrene	9.866	104	1993m	0.135	ppbv		
62) Isopropylbenzene	10.536	105	28762	0.476	ppbv		99
74) 1,2,4-Trimethylbenzene	11.532	105	5600	0.149	ppbv	#	53

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

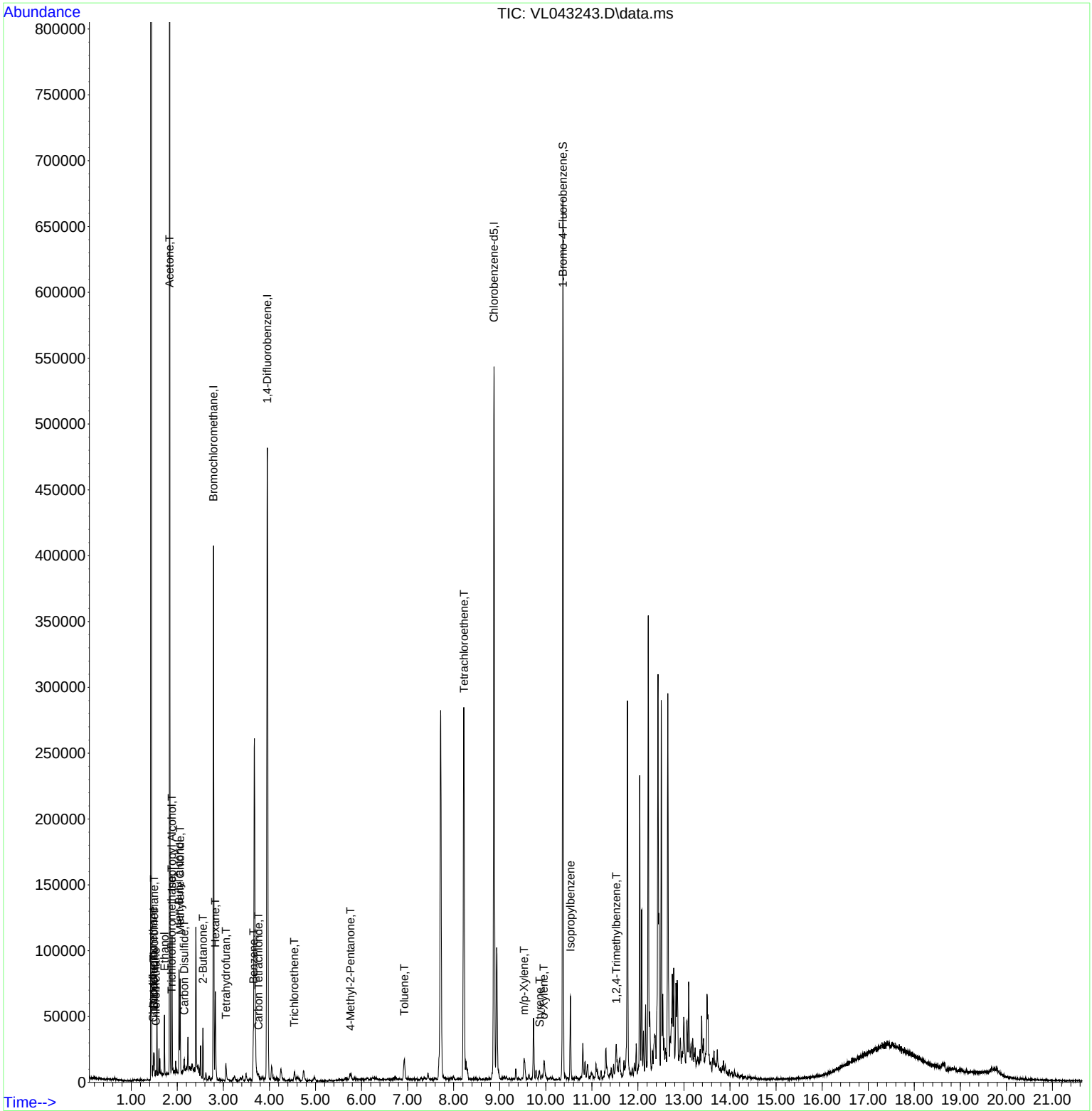
Quantitation Report (QT Reviewed)

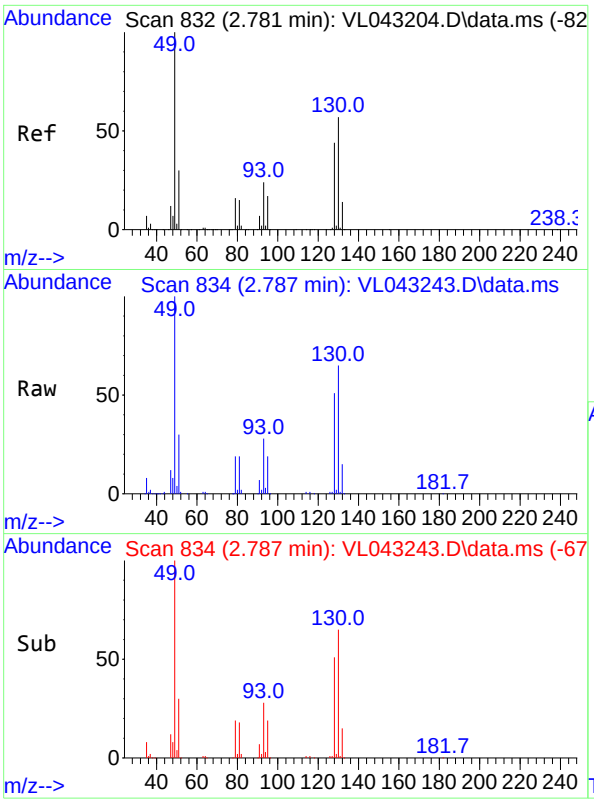
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043243.D
Acq On : 19 Nov 2025 17:13
Operator : SY/MD
Sample : Q3626-09 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:07:36 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-SG-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

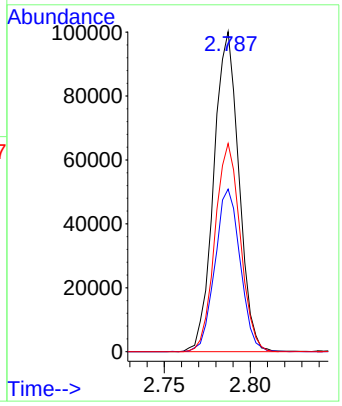




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 49 Resp: 10161

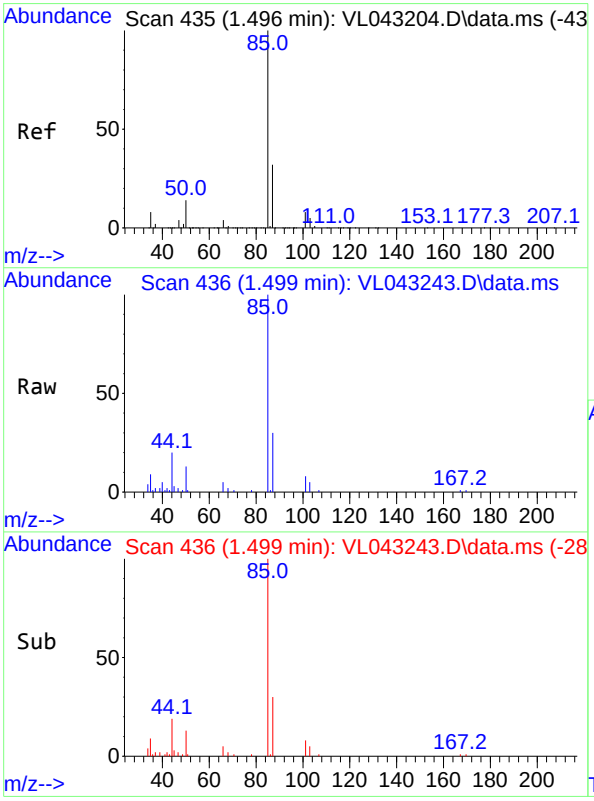
Ion	Ratio	Lower	Upper
49	100		
128	51.2	23.0	69.0
130	65.6	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Manual Integrations
APPROVED

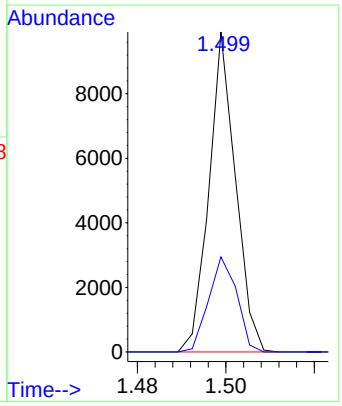
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

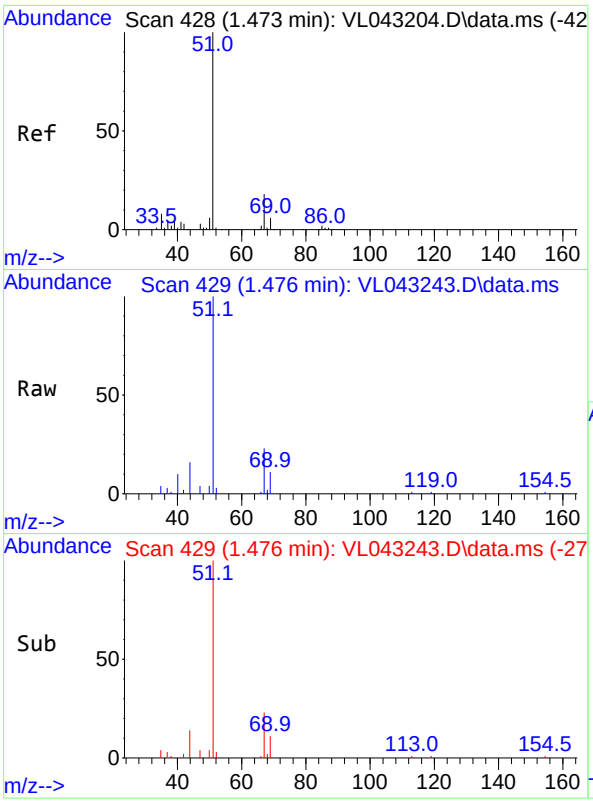


#2
Dichlorodifluoromethane
Concen: 0.289 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 85 Resp: 4141

Ion	Ratio	Lower	Upper
85	100		
87	29.7	25.4	38.2

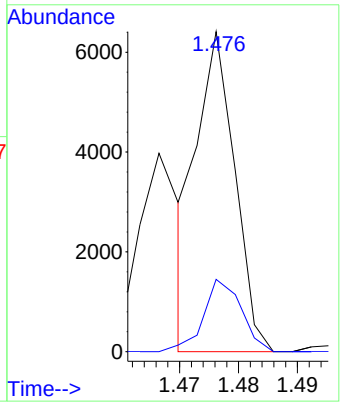




#3
Chlorodifluoromethane
Concen: 0.203 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 51 Resp: 285

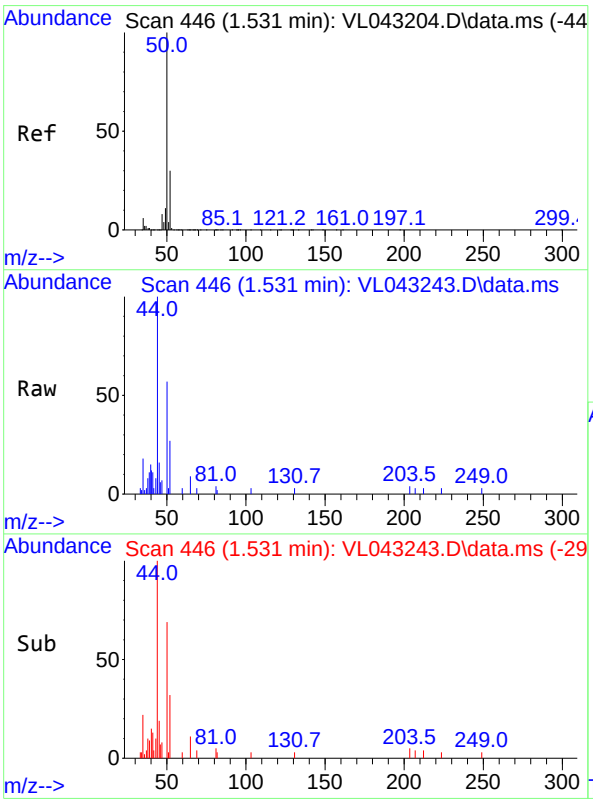
Ion	Ratio	Lower	Upper
51	100		
67	22.7	14.9	22.3#



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Manual Integrations
APPROVED

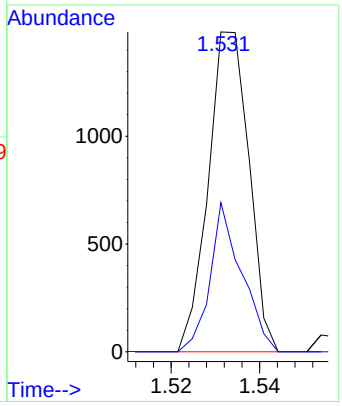
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

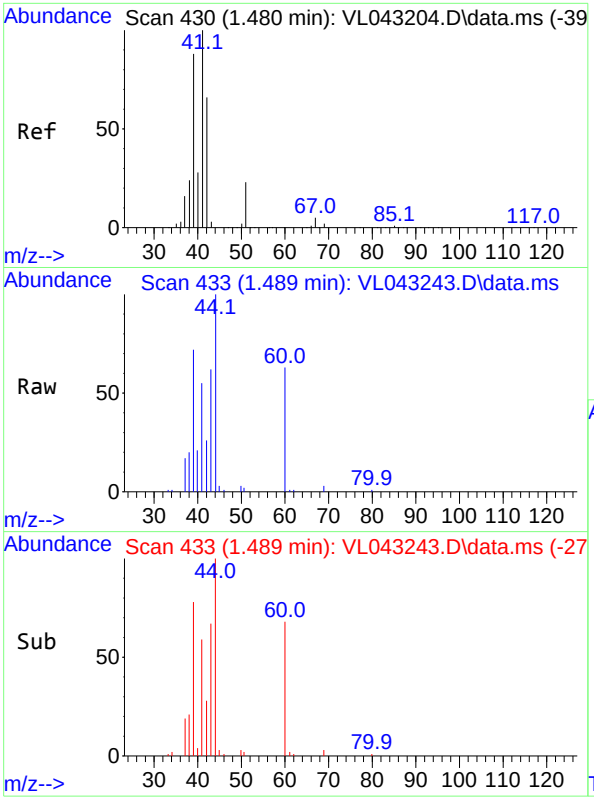


#4
Chloromethane
Concen: 0.177 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 50 Resp: 950

Ion	Ratio	Lower	Upper
50	100		
52	46.6	24.1	36.1#

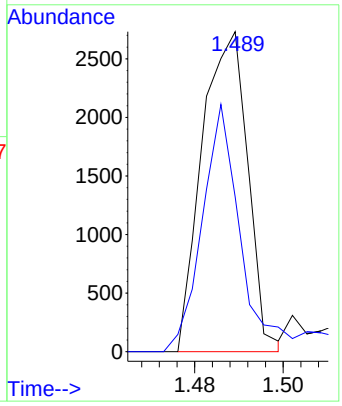




#9
Propene
Concen: 0.327 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 41 Resp: 195

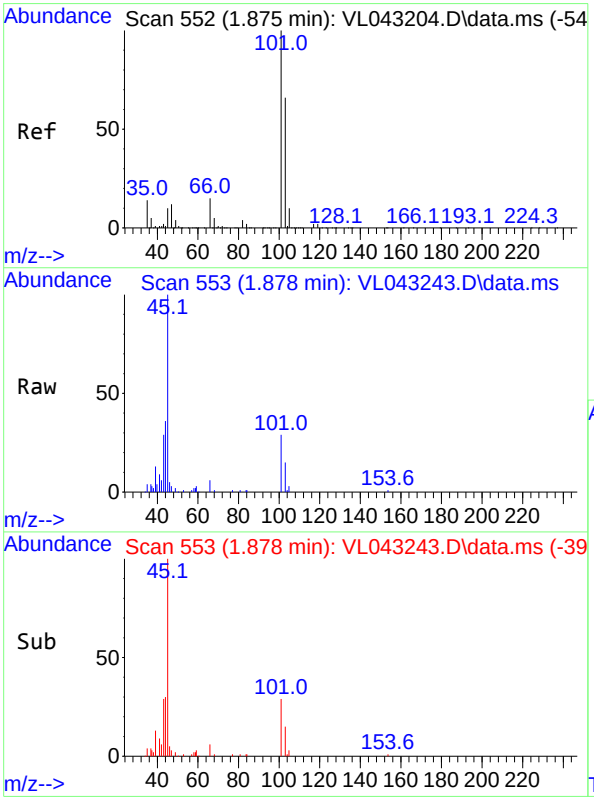
Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5#



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Manual Integrations
APPROVED

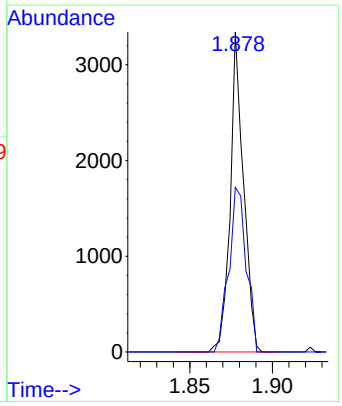
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

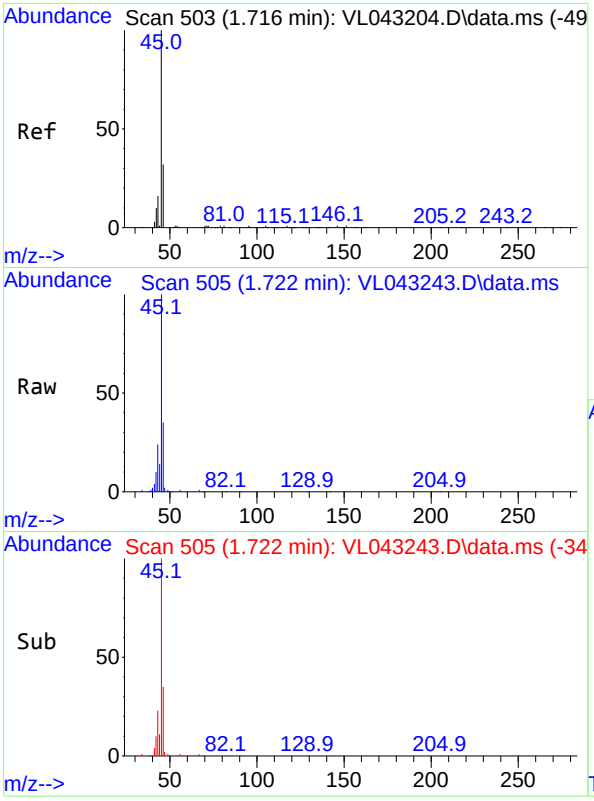


#11
Trichlorofluoromethane
Concen: 0.135 ppbv m
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion:101 Resp: 1869

Ion	Ratio	Lower	Upper
101	100		
103	51.5	52.6	79.0#

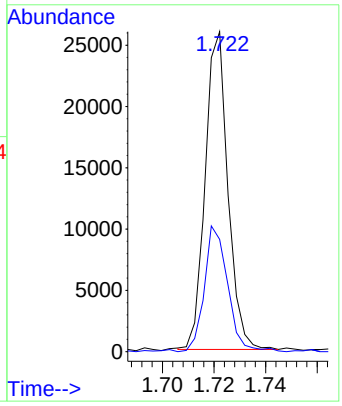




#13
Ethanol
Concen: 7.530 ppbv
RT: 1.722 min Scan# 5(
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 45 Resp: 1584

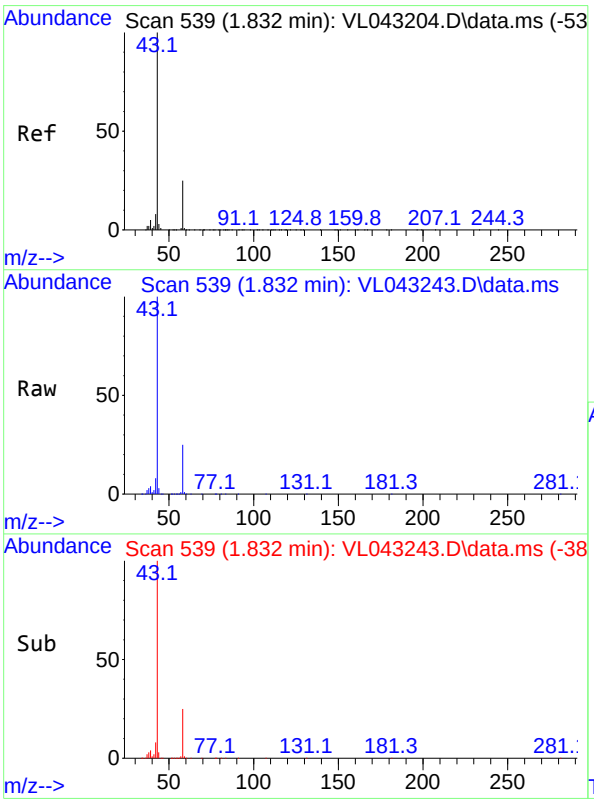
Ion	Ratio	Lower	Upper
45	100		
46	41.7	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Manual Integrations
APPROVED

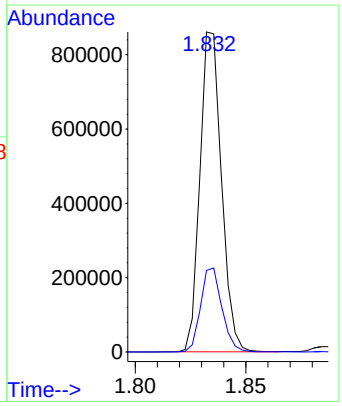
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

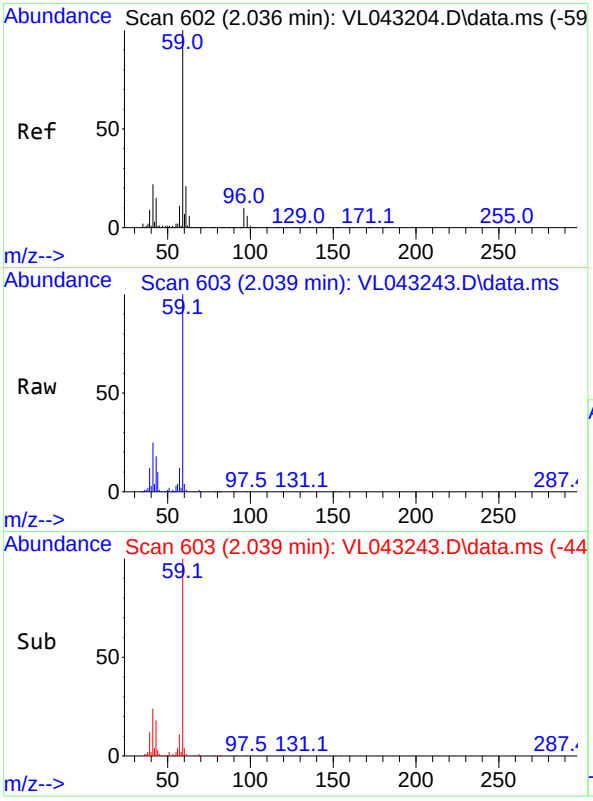


#15
Acetone
Concen: 41.364 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 43 Resp: 583978

Ion	Ratio	Lower	Upper
43	100		
58	26.1	20.7	31.1

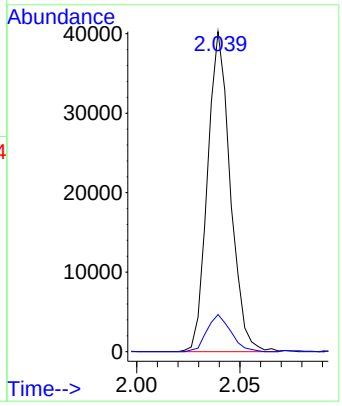




#17
tert-Butyl alcohol
Concen: 1.665 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 59 Resp: 3085

Ion	Ratio	Lower	Upper
59	100		
57	12.4	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

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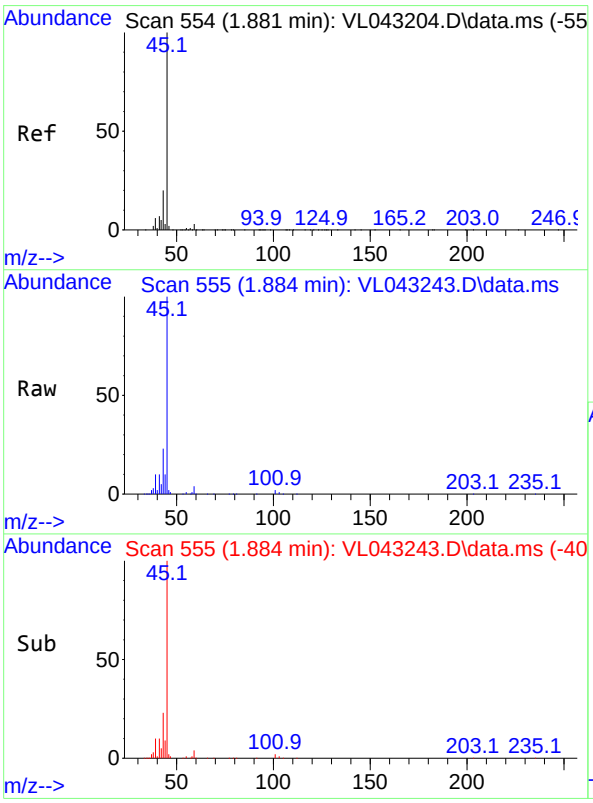
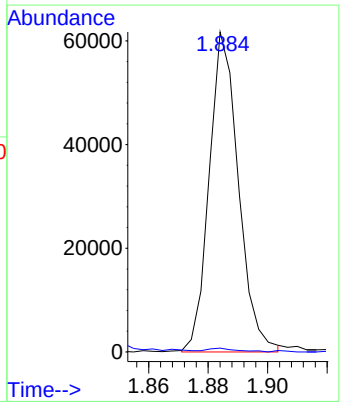
Supervised By :Mahesh Dadoda 11/21/2025

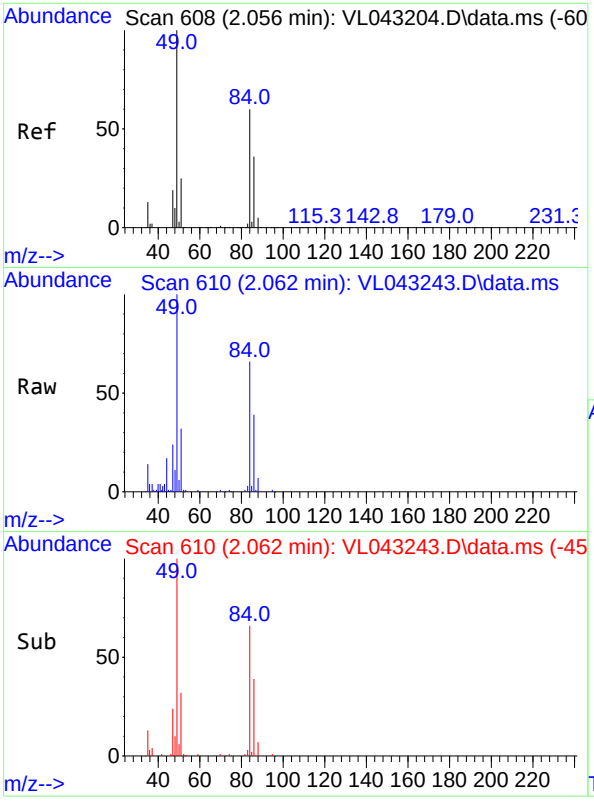


#19
Isopropyl Alcohol
Concen: 5.277 ppbv m
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 45 Resp: 42102

Ion	Ratio	Lower	Upper
45	100		
58	0.0	31.3	46.9#

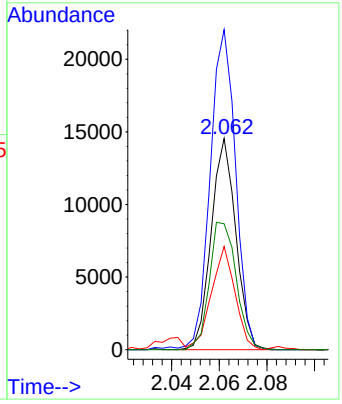




#20
Methylene Chloride
Concen: 1.884 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 84 Resp: 1048

Ion	Ratio	Lower	Upper
84	100		
49	151.6	132.9	199.3
51	47.4	34.8	52.2
86	59.7	48.2	72.2



Instrument :
MSVOA_L
ClientSampleId :
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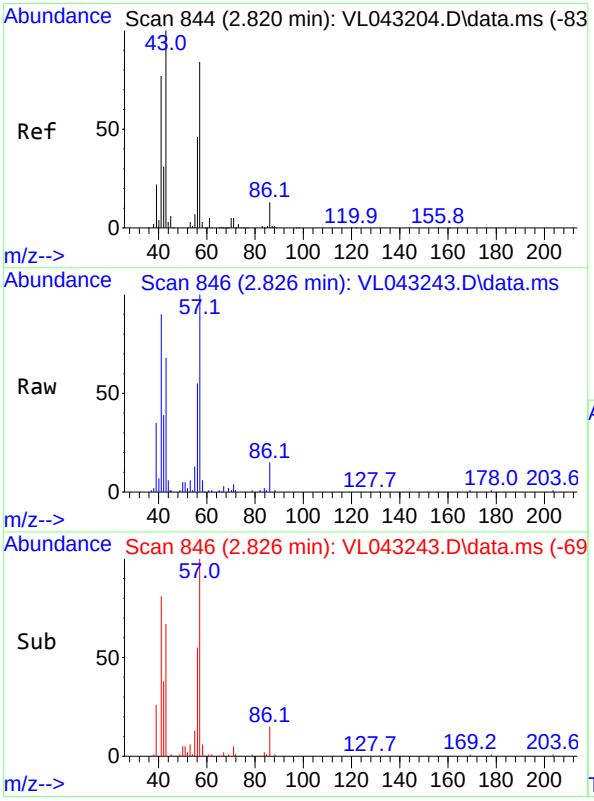
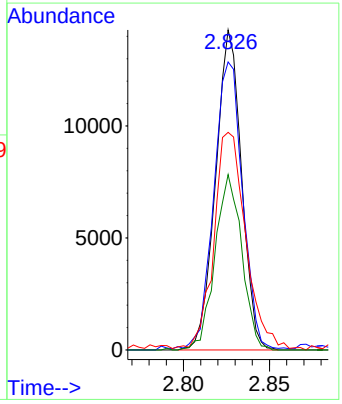
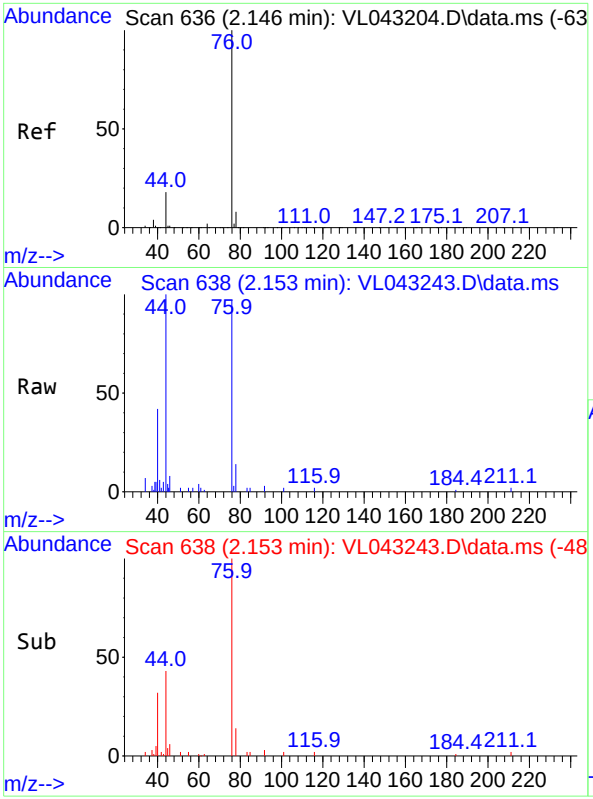


#26
Hexane
Concen: 1.120 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 57 Resp: 14958

Ion	Ratio	Lower	Upper
57	100		
41	100.6	74.6	111.8
43	87.6	179.0	268.4#
56	56.8	42.3	63.5

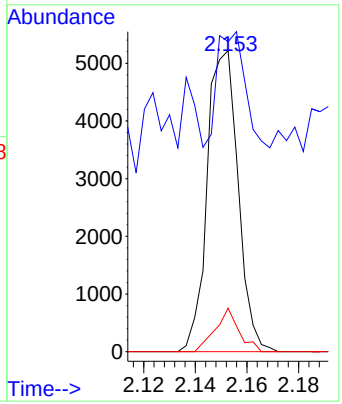




#27
Carbon Disulfide
Concen: 0.319 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 76 Resp: 434

Ion	Ratio	Lower	Upper
76	100		
44	225.4	16.1	24.1#
78	11.0	9.6	14.4



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

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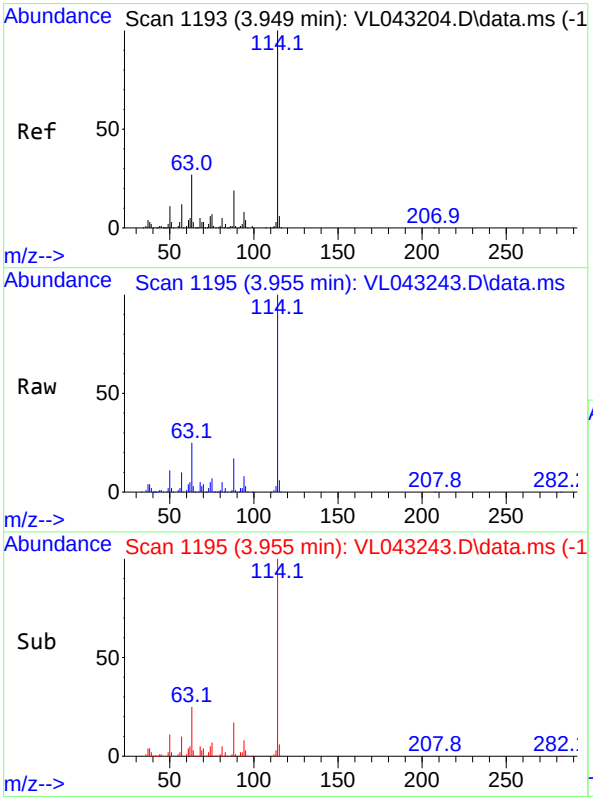
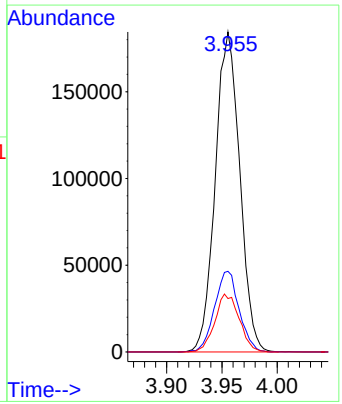
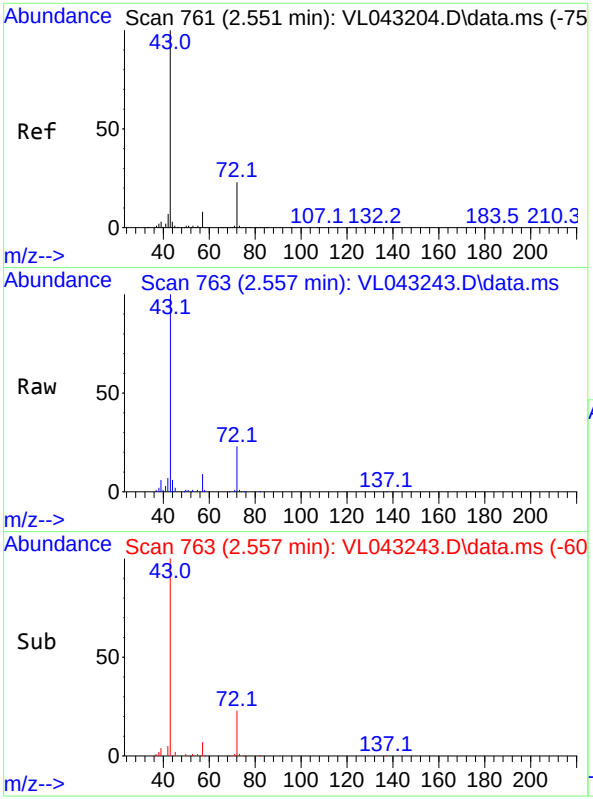


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion:114 Resp: 283781

Ion	Ratio	Lower	Upper
114	100		
63	25.3	21.0	31.6
88	18.1	14.9	22.3

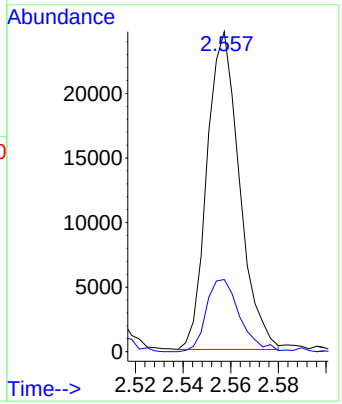




#34
2-Butanone
Concen: 1.162 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 43 Resp: 2326

Ion	Ratio	Lower	Upper
43	100		
72	24.0	18.1	27.1



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

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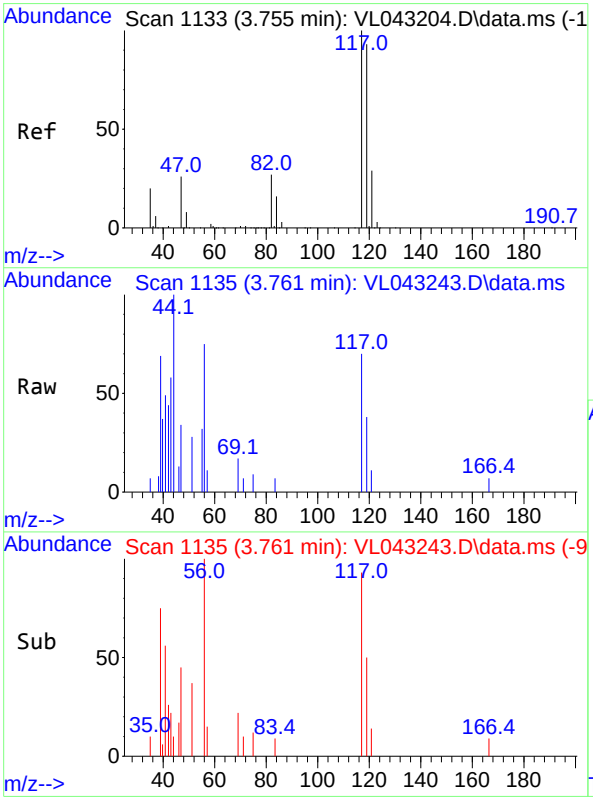
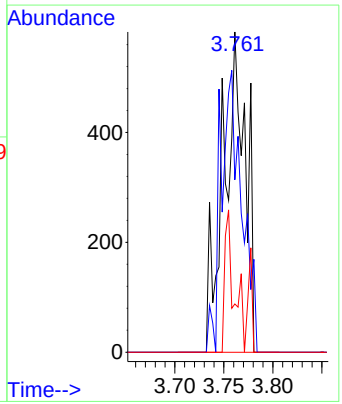
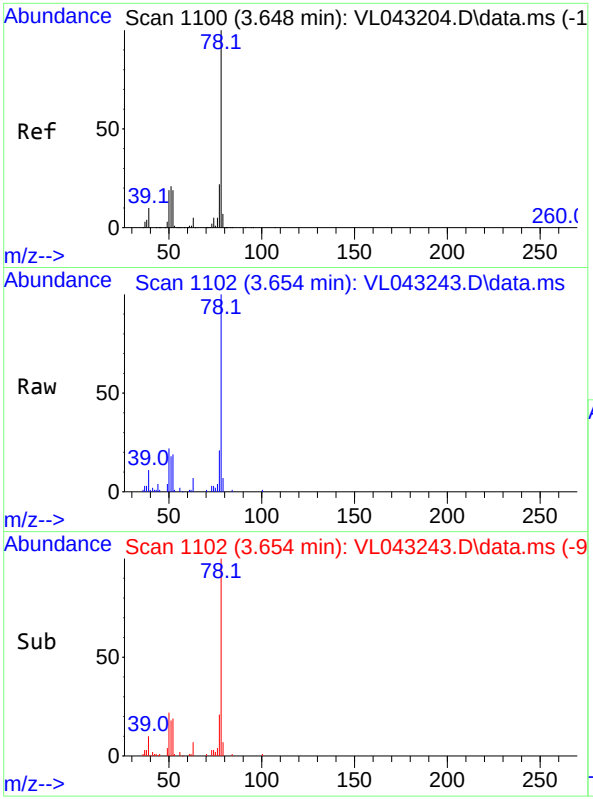


#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion:117 Resp: 903

Ion	Ratio	Lower	Upper
117	100		
119	53.9	74.6	112.0#
121	15.1	23.2	34.8#

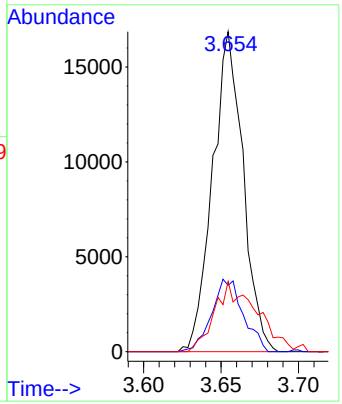




#36
Benzene
Concen: 0.850 ppbv
RT: 3.654 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 78 Resp: 2310

Ion	Ratio	Lower	Upper
78	100		
77	20.8	17.5	26.3
50	21.5	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

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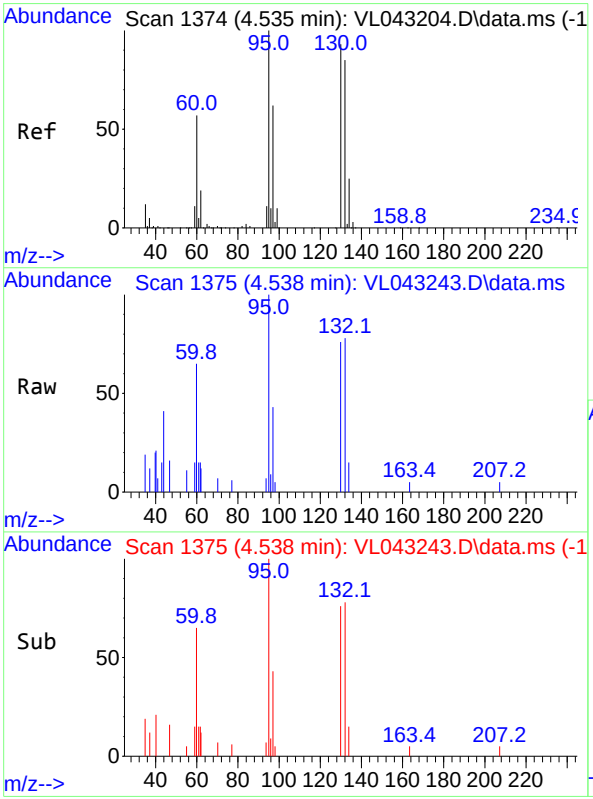
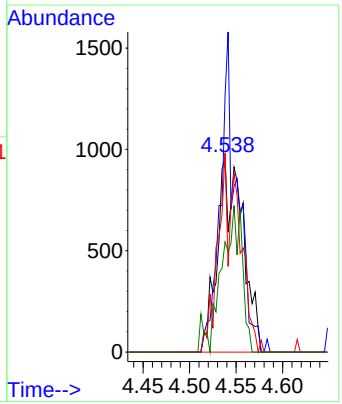
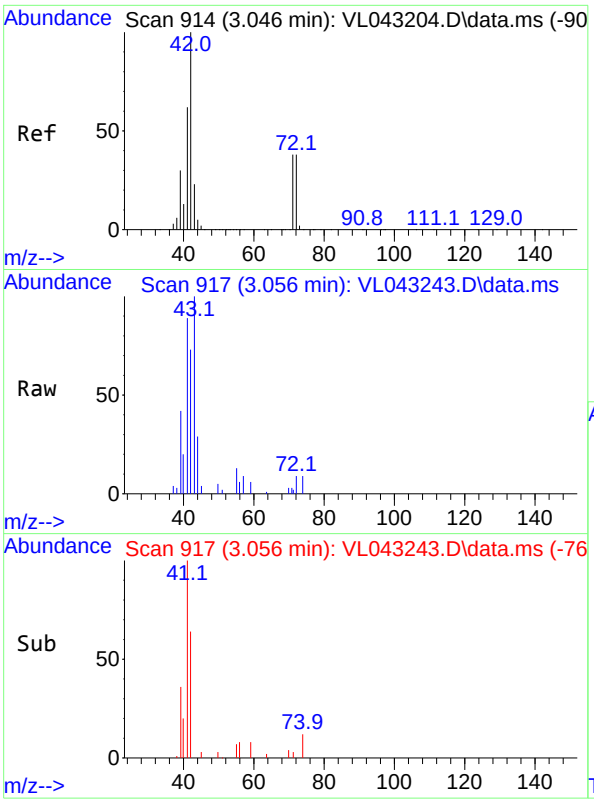


#38
Trichloroethene
Concen: 0.172 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion:130 Resp: 1830

Ion	Ratio	Lower	Upper
130	100		
95	131.7	85.7	128.5#
132	102.3	73.4	110.0
97	56.6	52.7	79.1

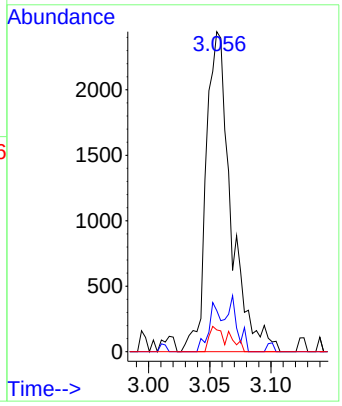




#41
Tetrahydrofuran
Concen: 0.311 ppbv m
RT: 3.056 min Scan# 9
Delta R.T. 0.010 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 42 Resp: 344

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.6	46.0#
71	6.0	30.5	45.7#



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

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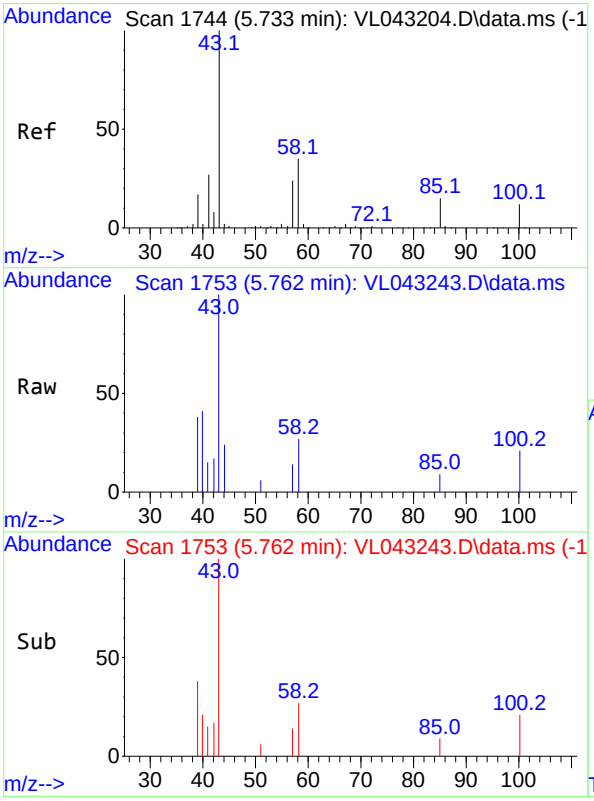
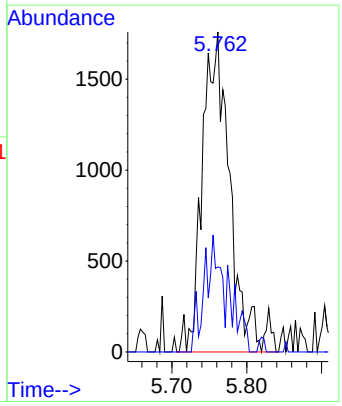
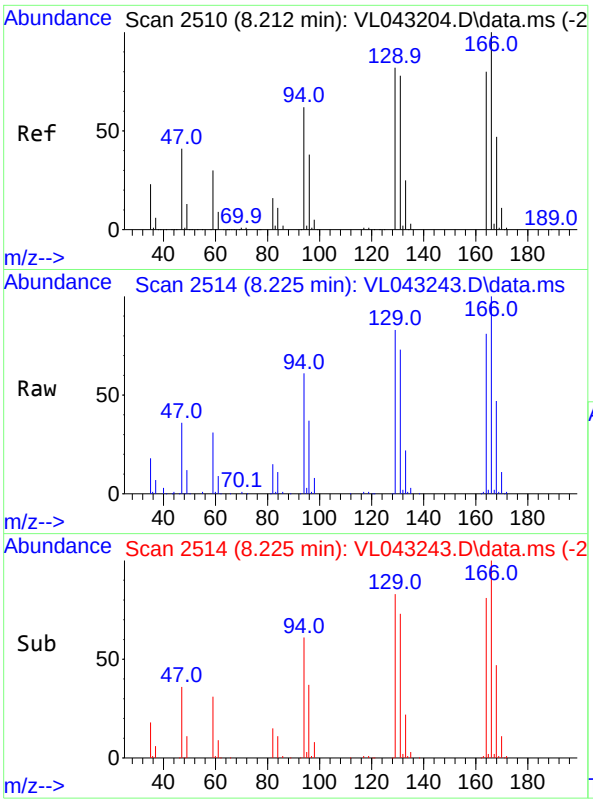


#50
4-Methyl-2-Pentanone
Concen: 0.160 ppbv m
RT: 5.762 min Scan# 1753
Delta R.T. 0.029 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 43 Resp: 4528

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#

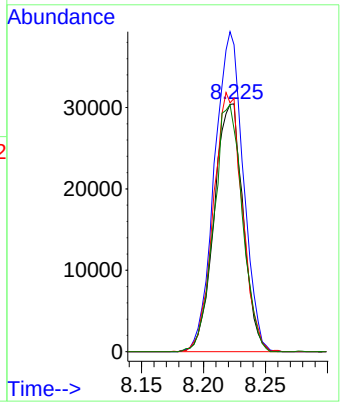




#52
Tetrachloroethene
Concen: 4.885 ppbv
RT: 8.225 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion:164 Resp: 4938

Ion	Ratio	Lower	Upper
164	100		
166	123.8	99.4	149.2
129	102.2	81.8	122.8
131	89.8	77.4	116.2



Instrument :
MSVOA_L
ClientSampleId :
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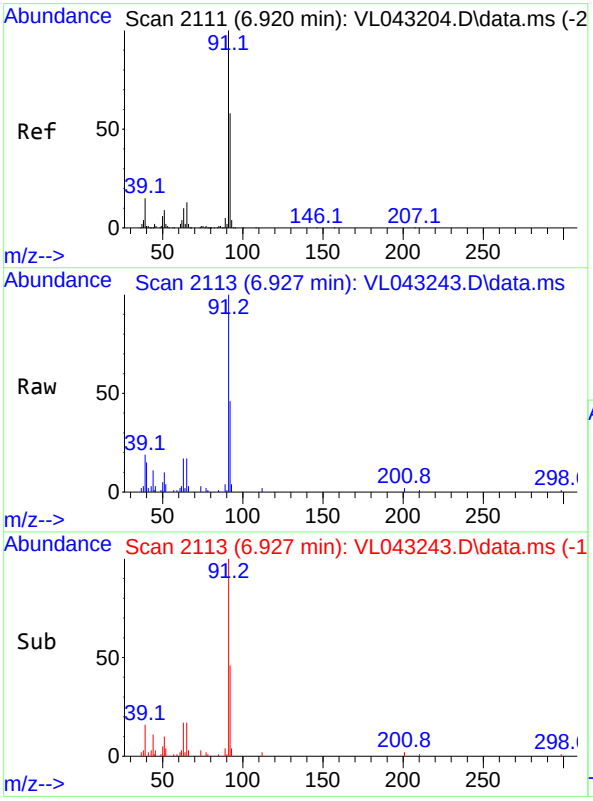
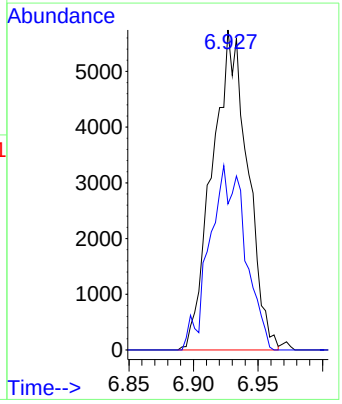
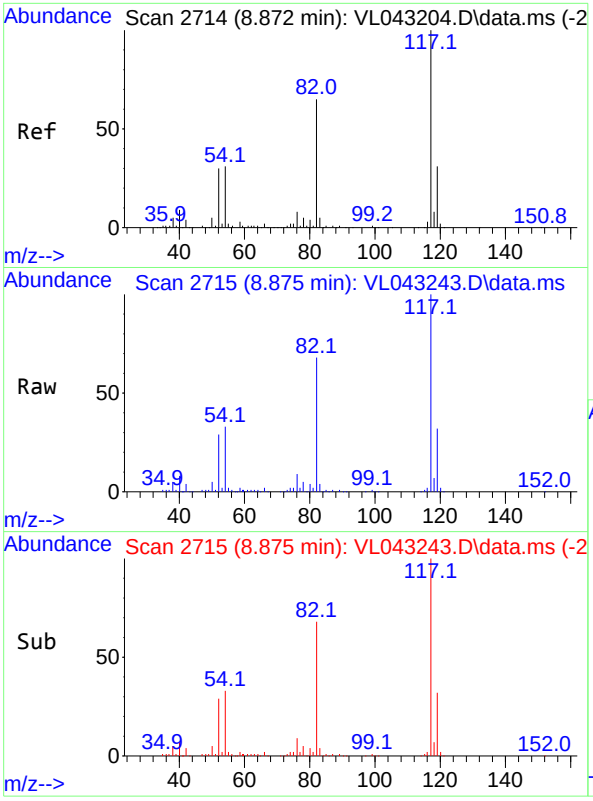


#53
Toluene
Concen: 0.341 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 91 Resp: 10983

Ion	Ratio	Lower	Upper
91	100		
92	58.2	47.4	71.0

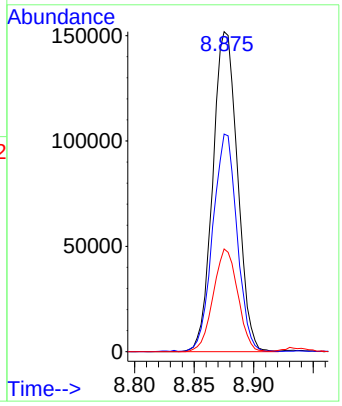




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion:117 Resp: 21898

Ion	Ratio	Lower	Upper
117	100		
82	66.9	56.1	84.1
119	31.8	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
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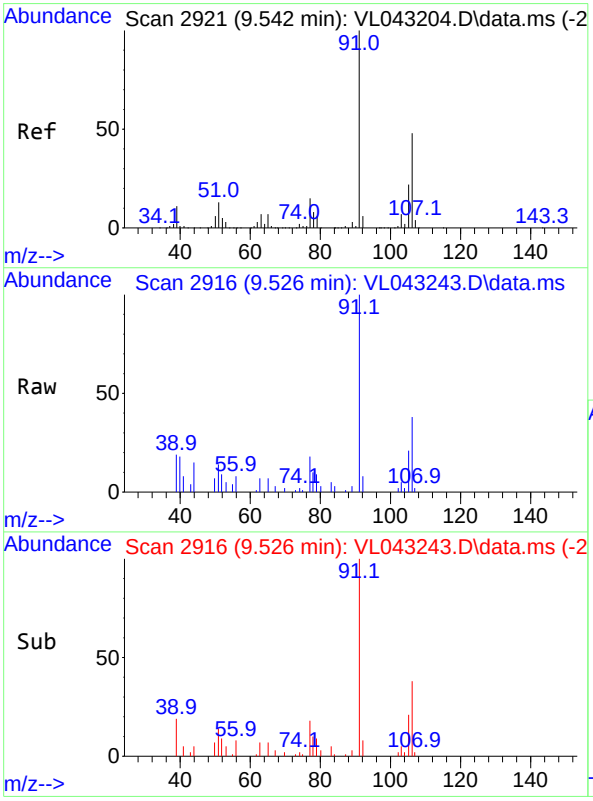
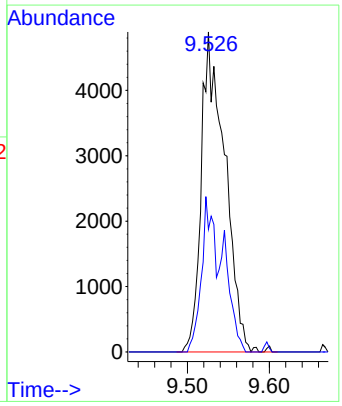
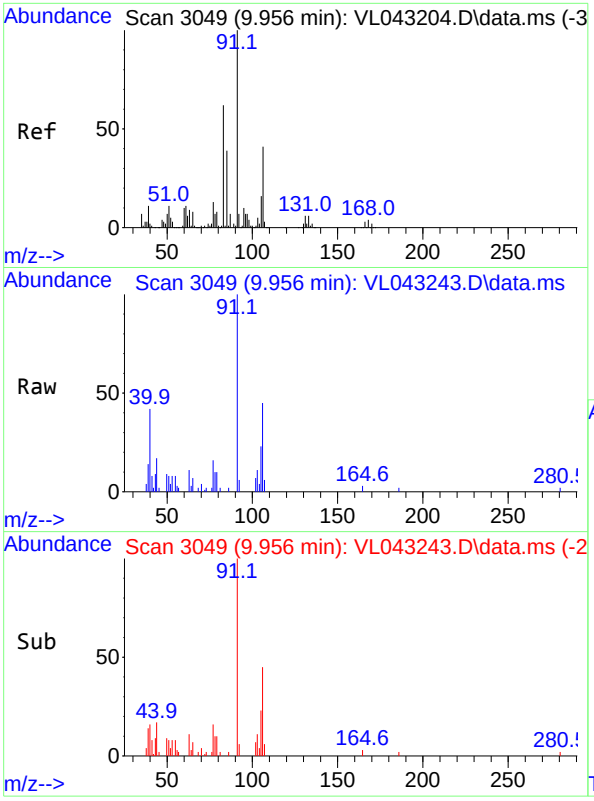


#59
m/p-Xylene
Concen: 0.289 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.016 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 91 Resp: 9760

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

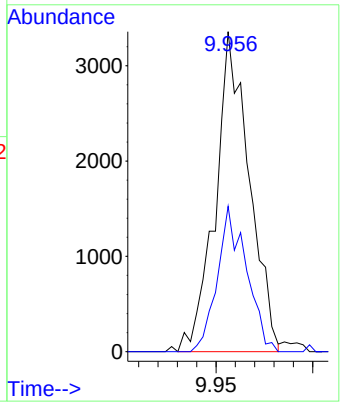




#60
o-Xylene
Concen: 0.121 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 91 Resp: 409

Ion	Ratio	Lower	Upper
91	100		
106	39.0	20.9	62.8



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

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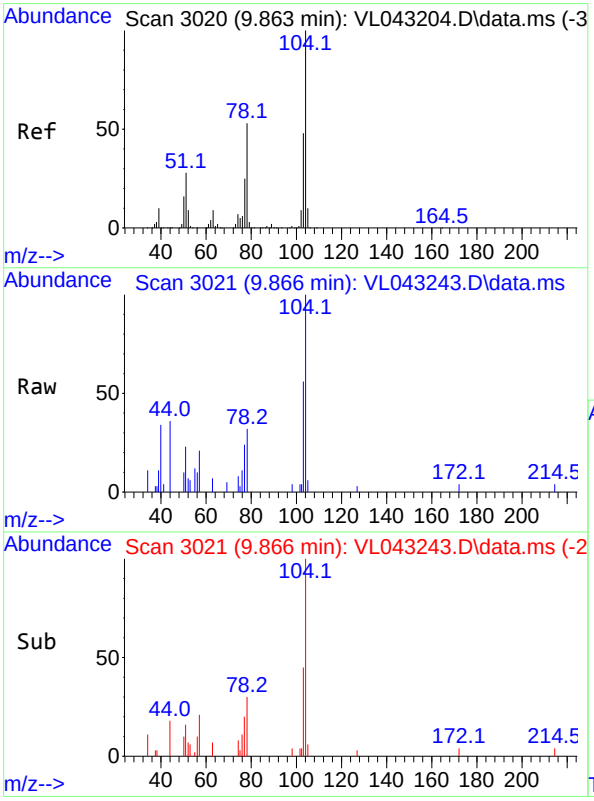
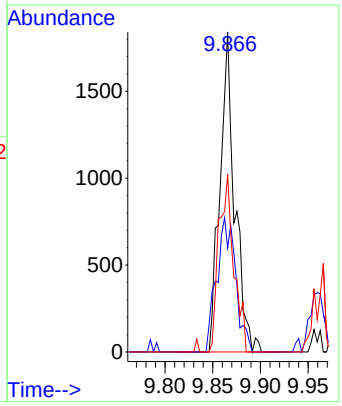
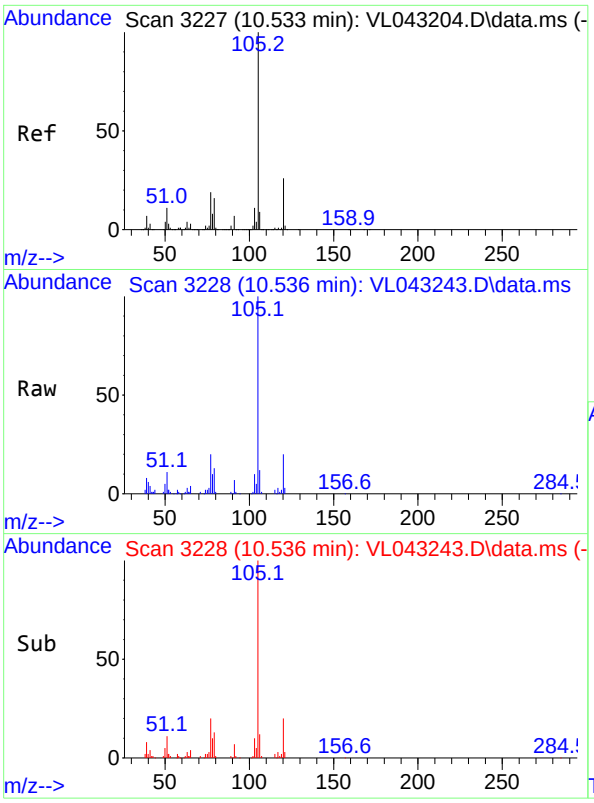


#61
Styrene
Concen: 0.135 ppbv m
RT: 9.866 min Scan# 3021
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion:104 Resp: 1993

Ion	Ratio	Lower	Upper
104	100		
78	53.8	42.1	63.1
103	57.0	37.2	55.8#

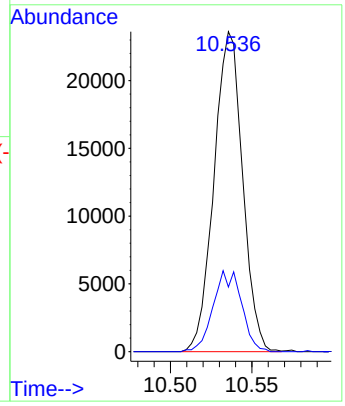




#62
Isopropylbenzene
Concen: 0.476 ppbv
RT: 10.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion:105 Resp: 2876

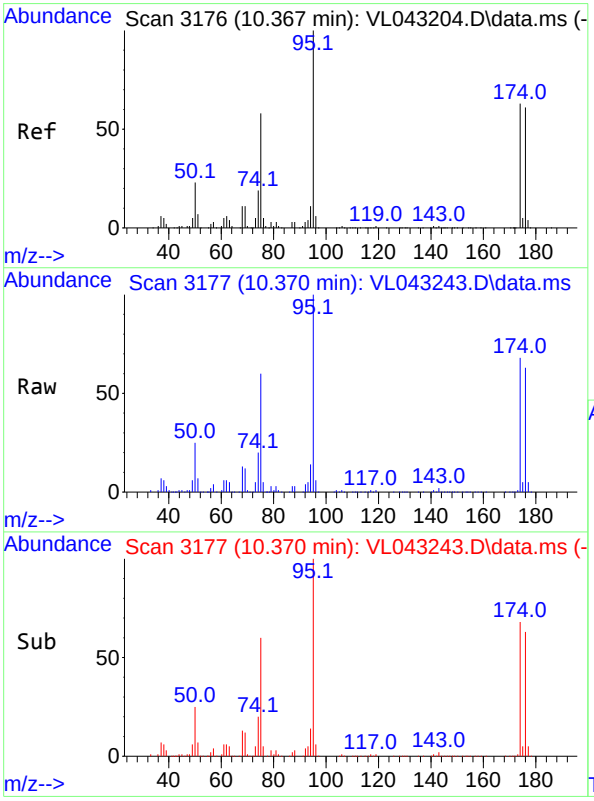
Ion	Ratio	Lower	Upper
105	100		
120	25.2	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Manual Integrations
APPROVED

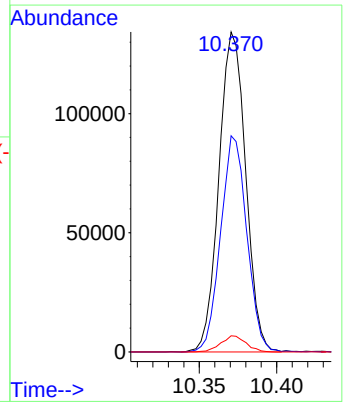
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

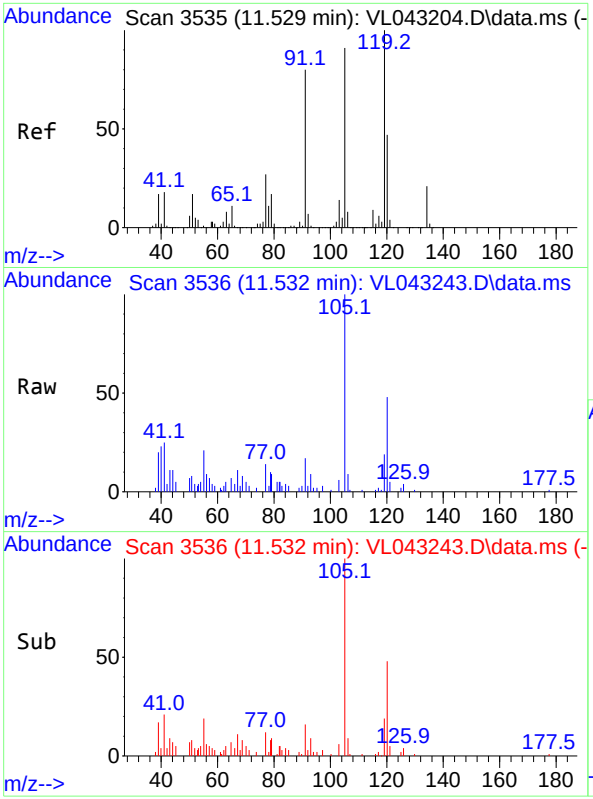


#68
1-Bromo-4-Fluorobenzene
Concen: 10.044 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 95 Resp: 161224

Ion	Ratio	Lower	Upper
95	100		
174	66.4	50.2	75.2
175	4.8	4.1	6.1

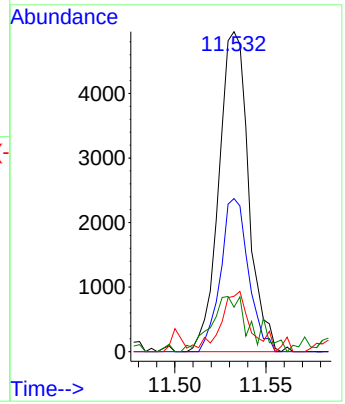




#74
1,2,4-Trimethylbenzene
Concen: 0.149 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion:105 Resp: 560

Ion	Ratio	Lower	Upper
105	100		
120	47.8	41.7	62.5
91	15.7	70.0	105.0#
77	13.9	23.8	35.8#



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	13-SG-1DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-09DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	5.44	UD	10	5.44	24.7	11/21/25 07:53	VL112025
74-87-3	Chloromethane	0.98	2.02	UD	10	2.02	10.3	11/21/25 07:53	VL112025
75-01-4	Vinyl Chloride	0.25	0.64	UD	10	0.64	0.77	11/21/25 07:53	VL112025
74-83-9	Bromomethane	0.77	2.99	UD	10	2.99	19.4	11/21/25 07:53	VL112025
75-00-3	Chloroethane	1.50	3.96	UD	10	3.96	13.2	11/21/25 07:53	VL112025
109-99-9	Tetrahydrofuran	0.80	2.36	UD	10	2.36	14.8	11/21/25 07:53	VL112025
75-69-4	Trichlorofluoromethane	1.70	9.55	UD	10	9.55	28.1	11/21/25 07:53	VL112025
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	10.7	UD	10	10.7	38.3	11/21/25 07:53	VL112025
76-14-2	Dichlorotetrafluoroethane	1.50	10.5	UD	10	10.5	35.0	11/21/25 07:53	VL112025
75-65-0	tert-Butyl alcohol	2.90	8.79	JD	10	4.85	15.2	11/21/25 07:53	VL112025
142-82-5	Heptane	1.70	6.97	UD	10	6.97	20.5	11/21/25 07:53	VL112025
75-35-4	1,1-Dichloroethene	1.50	5.95	UD	10	5.95	19.8	11/21/25 07:53	VL112025
67-64-1	Acetone	75.7	180	D	10	4.28	11.9	11/21/25 07:53	VL112025
75-15-0	Carbon Disulfide	0.80	2.49	UD	10	2.49	15.6	11/21/25 07:53	VL112025
1634-04-4	Methyl tert-Butyl Ether	2.30	8.29	UD	10	8.29	18.0	11/21/25 07:53	VL112025
75-09-2	Methylene Chloride	3.90	13.6	JD	10	7.99	17.4	11/21/25 07:53	VL112025
156-60-5	trans-1,2-Dichloroethene	1.20	4.76	UD	10	4.76	19.8	11/21/25 07:53	VL112025
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	10	5.26	20.2	11/21/25 07:53	VL112025
110-82-7	Cyclohexane	2.20	7.57	UD	10	7.57	17.2	11/21/25 07:53	VL112025
78-93-3	2-Butanone	2.70	7.96	JD	10	1.65	14.8	11/21/25 07:53	VL112025
56-23-5	Carbon Tetrachloride	0.25	1.57	UD	10	1.57	1.89	11/21/25 07:53	VL112025
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	UD	10	3.93	19.8	11/21/25 07:53	VL112025
67-66-3	Chloroform	0.96	4.69	UD	10	4.69	24.4	11/21/25 07:53	VL112025
71-55-6	1,1,1-Trichloroethane	0.16	0.87	UD	10	0.87	1.64	11/21/25 07:53	VL112025
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	UD	10	6.54	23.4	11/21/25 07:53	VL112025
71-43-2	Benzene	1.60	5.11	JD	10	2.52	16.0	11/21/25 07:53	VL112025
107-06-2	1,2-Dichloroethane	0.93	3.76	UD	10	3.76	20.2	11/21/25 07:53	VL112025
79-01-6	Trichloroethene	0.24	1.29	UD	10	1.29	1.61	11/21/25 07:53	VL112025
78-87-5	1,2-Dichloropropane	1.30	6.01	UD	10	6.01	23.1	11/21/25 07:53	VL112025
75-27-4	Bromodichloromethane	0.63	4.22	UD	10	4.22	33.5	11/21/25 07:53	VL112025
108-10-1	4-Methyl-2-Pentanone	0.97	3.98	UD	10	3.98	20.5	11/21/25 07:53	VL112025
108-88-3	Toluene	1.60	6.03	UD	10	6.03	18.8	11/21/25 07:53	VL112025
10061-02-6	t-1,3-Dichloropropene	1.50	6.81	UD	10	6.81	22.7	11/21/25 07:53	VL112025
10061-01-5	cis-1,3-Dichloropropene	1.10	4.99	UD	10	4.99	22.7	11/21/25 07:53	VL112025
79-00-5	1,1,2-Trichloroethane	0.81	4.42	UD	10	4.42	27.3	11/21/25 07:53	VL112025
124-48-1	Dibromochloromethane	0.85	7.24	UD	10	7.24	42.6	11/21/25 07:53	VL112025
106-93-4	1,2-Dibromoethane	0.85	6.53	UD	10	6.53	7.69	11/21/25 07:53	VL112025
127-18-4	Tetrachloroethene	8.50	57.6	D	10	1.02	2.03	11/21/25 07:53	VL112025
108-90-7	Chlorobenzene	0.77	3.55	UD	10	3.55	23.0	11/21/25 07:53	VL112025
100-41-4	Ethyl Benzene	1.90	8.25	UD	10	8.25	21.7	11/21/25 07:53	VL112025
179601-23-1	m/p-Xylene	4.10	17.8	UD	10	17.8	43.4	11/21/25 07:53	VL112025
95-47-6	o-Xylene	2.10	9.12	UD	10	9.12	21.7	11/21/25 07:53	VL112025
100-42-5	Styrene	1.60	6.81	UD	10	6.81	21.3	11/21/25 07:53	VL112025
75-25-2	Bromoform	0.48	4.96	UD	10	4.96	51.7	11/21/25 07:53	VL112025
79-34-5	1,1,2,2-Tetrachloroethane	0.18	1.24	UD	10	1.24	2.06	11/21/25 07:53	VL112025
95-49-8	2-Chlorotoluene	1.70	8.80	UD	10	8.80	25.9	11/21/25 07:53	VL112025

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	13-SG-1DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-09DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	11/21/25 07:53	VL112025
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	11/21/25 07:53	VL112025
541-73-1	1,3-Dichlorobenzene	0.54	3.25	UD	10	3.25	30.1	11/21/25 07:53	VL112025
106-46-7	1,4-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1	11/21/25 07:53	VL112025
95-50-1	1,2-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1	11/21/25 07:53	VL112025
120-82-1	1,2,4-Trichlorobenzene	2.10	15.6	UD	10	15.6	37.1	11/21/25 07:53	VL112025
87-68-3	Hexachloro-1,3-Butadiene	1.30	13.9	UD	10	13.9	53.3	11/21/25 07:53	VL112025
106-99-0	1,3-Butadiene	0.51	1.13	UD	10	1.13	11.1	11/21/25 07:53	VL112025
91-20-3	Naphthalene	0.13	0.68	UD	10	0.68	5.24	11/21/25 07:53	VL112025
622-96-8	4-Ethyltoluene	2.10	10.3	UD	10	10.3	24.6	11/21/25 07:53	VL112025
110-54-3	Hexane	2.50	8.81	JD	10	5.64	17.6	11/21/25 07:53	VL112025
107-05-1	Allyl Chloride	1.10	3.44	UD	10	3.44	15.7	11/21/25 07:53	VL112025
123-91-1	1,4-Dioxane	2.20	7.93	UD	10	7.93	18.0	11/21/25 07:53	VL112025
80-62-6	Methyl Methacrylate	1.40	5.73	UD	10	5.73	20.5	11/21/25 07:53	VL112025
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	99900							
540-36-3	1,4-Difluorobenzene	261000							
3114-55-4	Chlorobenzene-d5	202000							

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\VL112025\
Data File : VL043275.D
Acq On : 21 Nov 2025 07:53
Operator : SY/MD
Sample : Q3626-09DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 21 22:15:18 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-SG-1DL

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/24/2025
Supervised By :Mahesh Dadoda 11/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	99850	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	261008	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	202177	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	140998	9.514	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.100%			
Target Compounds						Qvalue
13) Ethanol	1.722	45	3624	1.752	ppbv	# 38
15) Acetone	1.835	43	104948	7.565	ppbv	100
17) tert-Butyl alcohol	2.043	59	5189	0.285	ppbv	# 88
19) Isopropyl Alcohol	1.887	45	8343	1.064	ppbv	# 1
20) Methylene Chloride	2.062	84	4686	0.392	ppbv	# 93
26) Hexane	2.826	57	3223	0.246	ppbv	# 41
34) 2-Butanone	2.557	43	4874	0.265	ppbv	99
36) Benzene	3.658	78	3988	0.160	ppbv	# 89
52) Tetrachloroethene	8.215	164	7871m	0.847	ppbv	

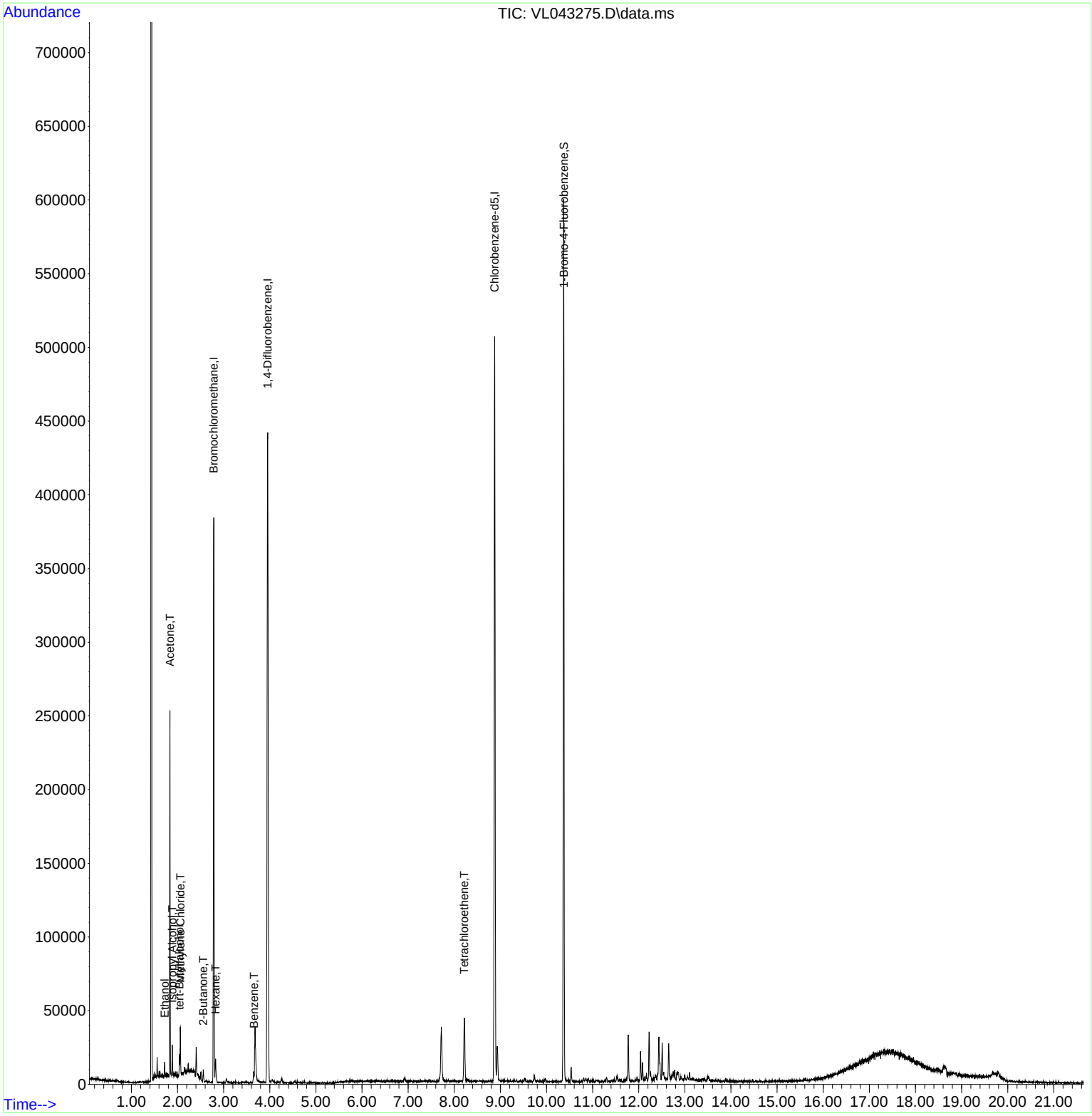
(#) = qualifier out of range (m) = manual integration (+) = signals summed

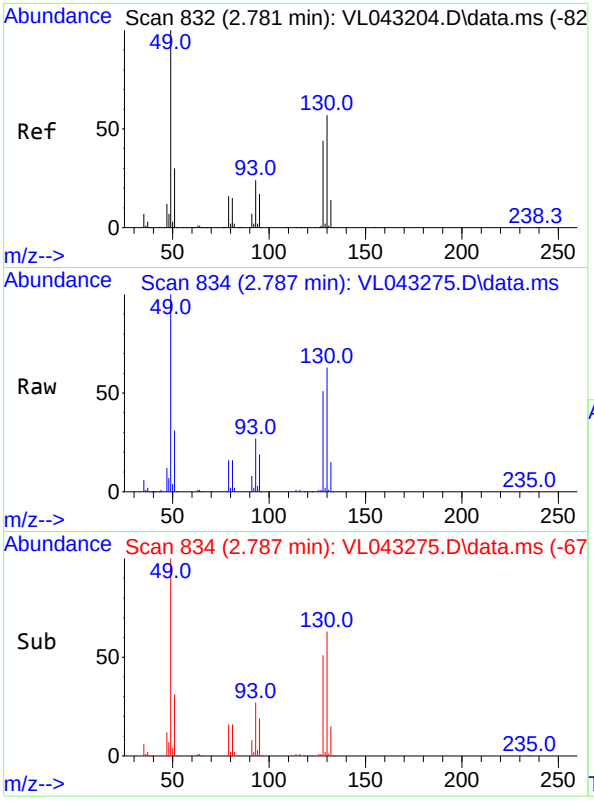
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043275.D
Acq On : 21 Nov 2025 07:53
Operator : SY/MD
Sample : Q3626-09DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 21 22:15:18 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-SG-1DL

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/24/2025
Supervised By :Mahesh Dadoda 11/24/2025

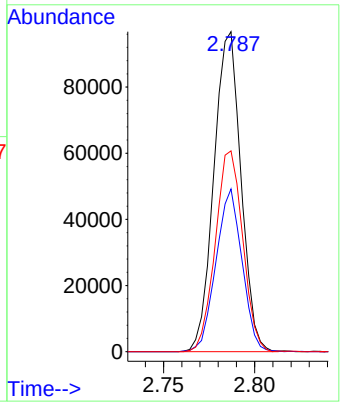




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 49 Resp: 9985

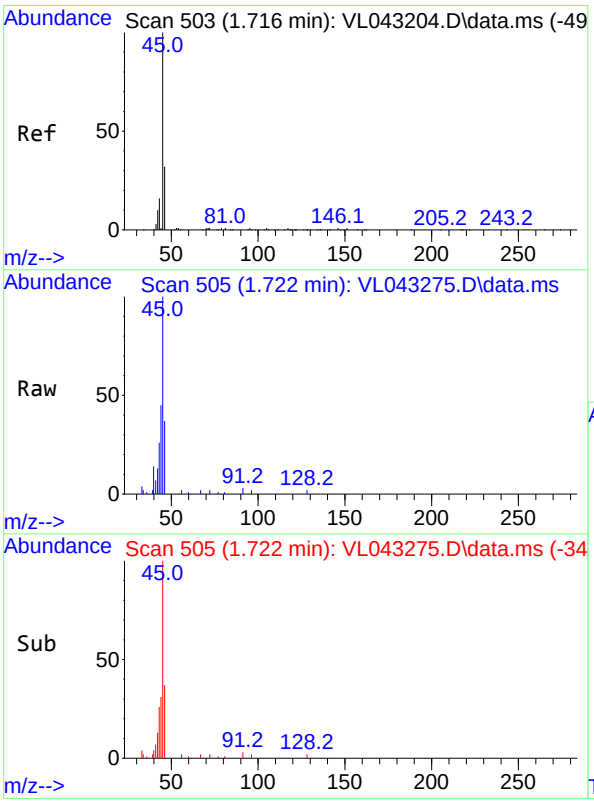
Ion	Ratio	Lower	Upper
49	100		
128	49.0	23.0	69.0
130	63.7	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Manual Integrations
APPROVED

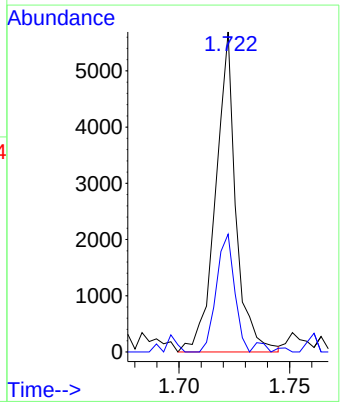
Reviewed By :Semsettin Yesilyurt 11/24/2025
Supervised By :Mahesh Dadoda 11/24/2025

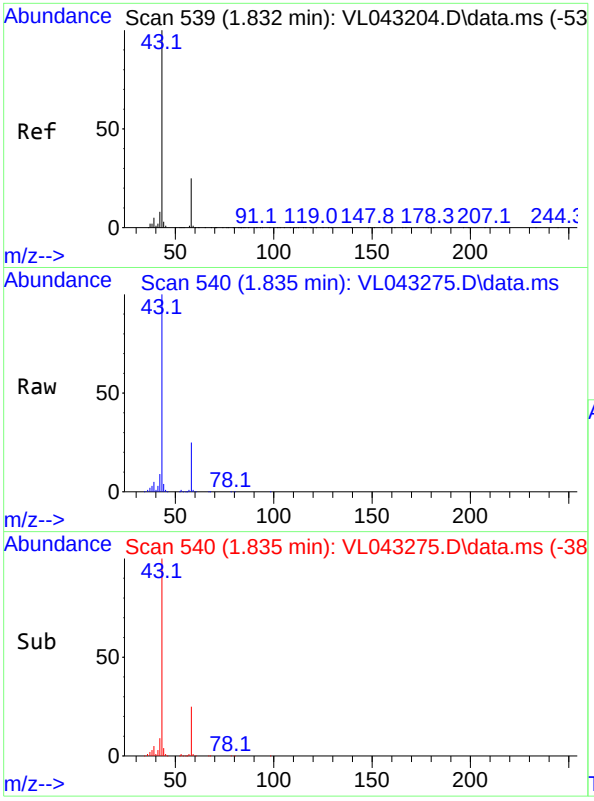


#13
Ethanol
Concen: 1.752 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 45 Resp: 3624

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.0	59.8#

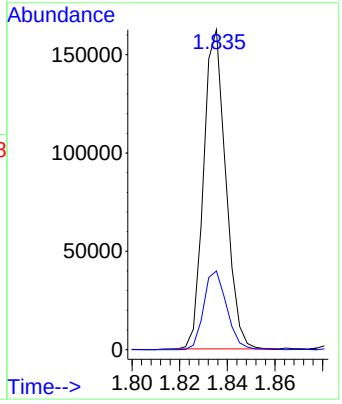




#15
Acetone
Concen: 7.565 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 43 Resp: 10494

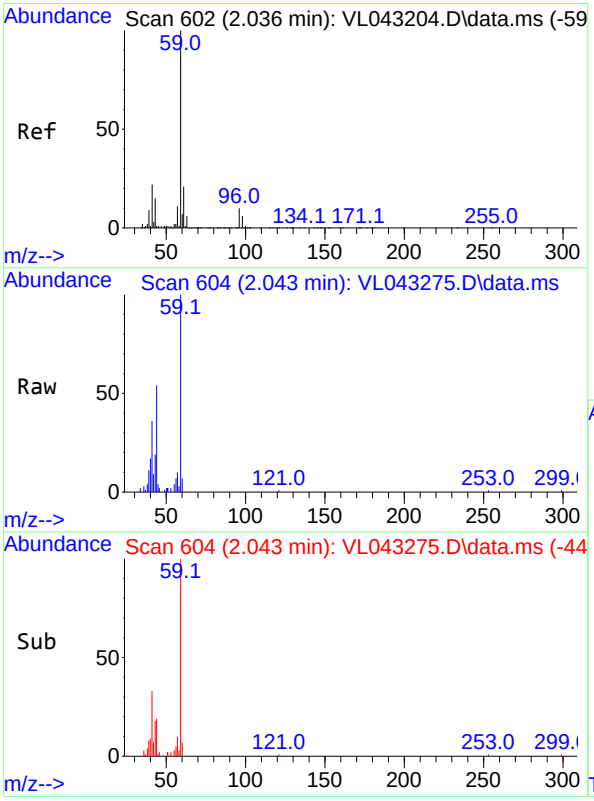
Ion	Ratio	Lower	Upper
43	100		
58	25.7	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Manual Integrations
APPROVED

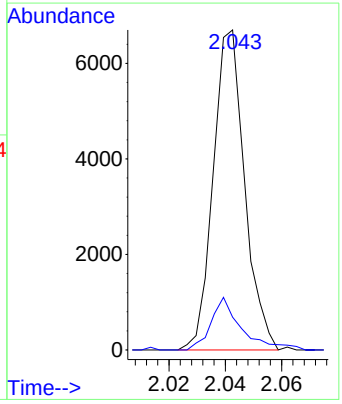
Reviewed By :Semsettin Yesilyurt 11/24/2025
Supervised By :Mahesh Dadoda 11/24/2025

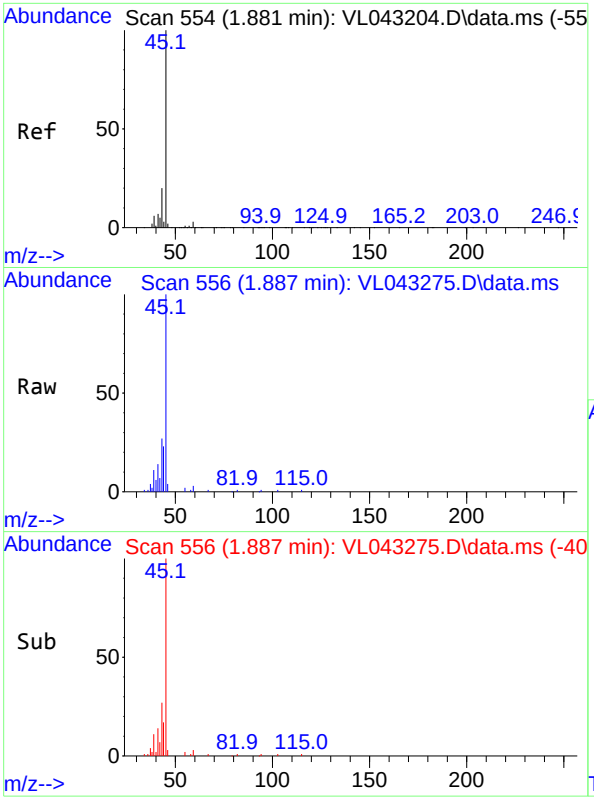


#17
tert-Butyl alcohol
Concen: 0.285 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 59 Resp: 5189

Ion	Ratio	Lower	Upper
59	100		
57	15.9	9.0	13.4#

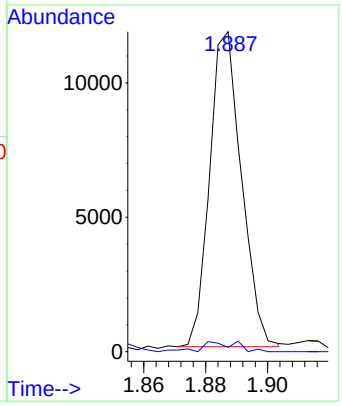




#19
Isopropyl Alcohol
Concen: 1.064 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 45 Resp: 834

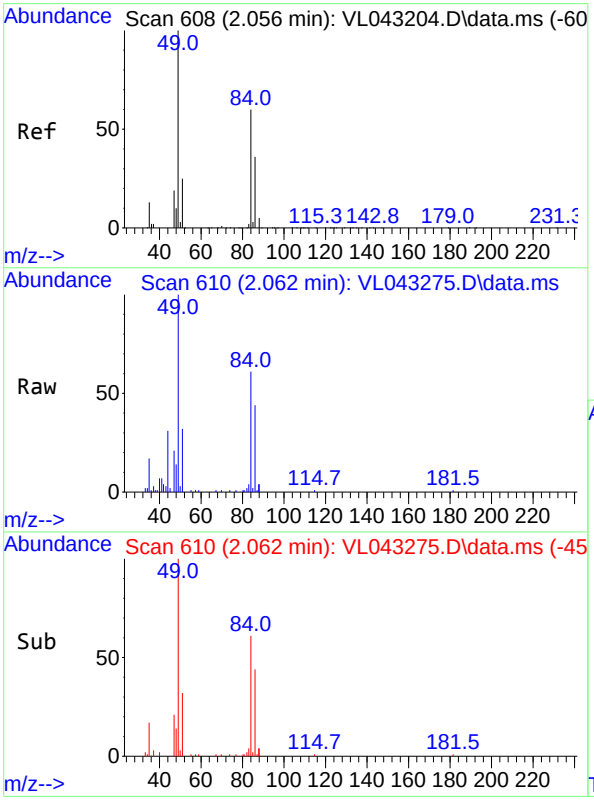
Ion	Ratio	Lower	Upper
45	100		
58	322.5	31.3	46.9#



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Manual Integrations
APPROVED

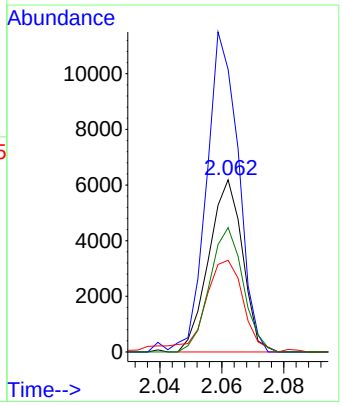
Reviewed By :Semsettin Yesilyurt 11/24/2025
Supervised By :Mahesh Dadoda 11/24/2025

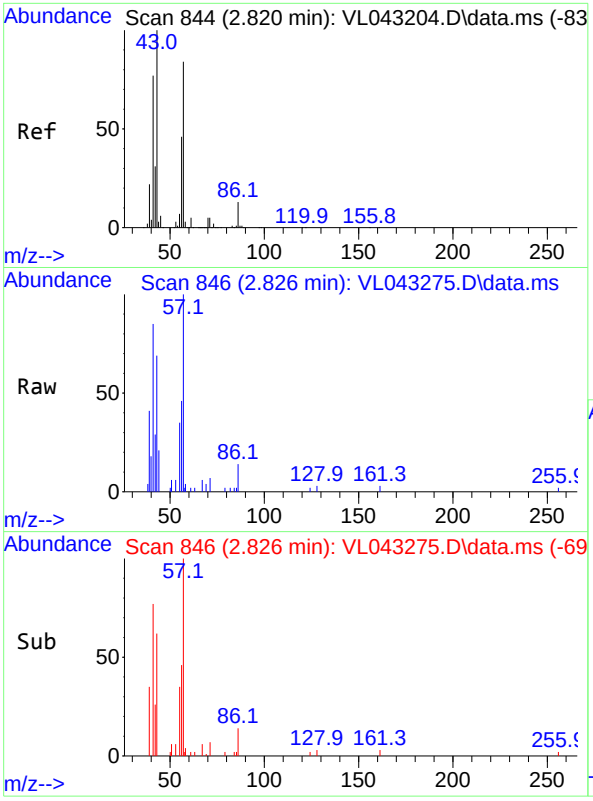


#20
Methylene Chloride
Concen: 0.392 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 84 Resp: 4686

Ion	Ratio	Lower	Upper
84	100		
49	164.2	132.9	199.3
51	53.3	34.8	52.2#
86	72.2	48.2	72.2

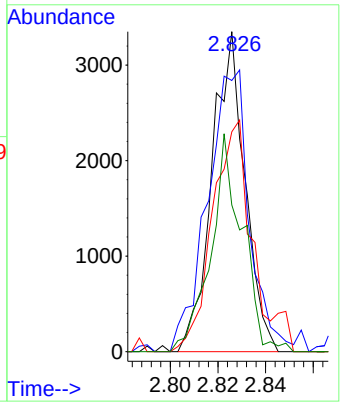




#26
Hexane
Concen: 0.246 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 57 Resp: 322

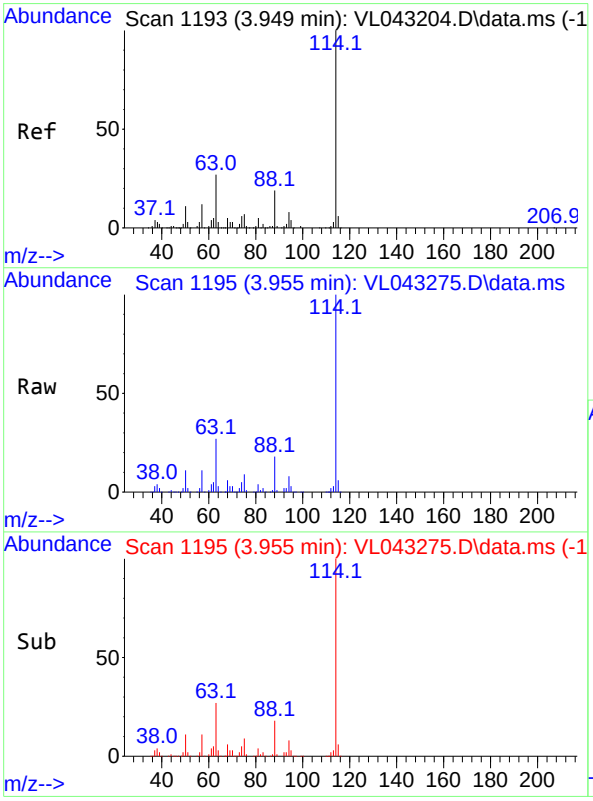
Ion	Ratio	Lower	Upper
57	100		
41	113.9	74.6	111.8#
43	87.6	179.0	268.4#
56	65.0	42.3	63.5#



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Manual Integrations
APPROVED

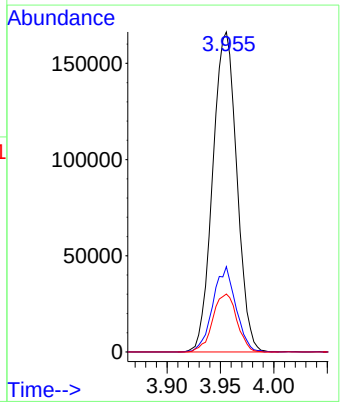
Reviewed By :Semsettin Yesilyurt 11/24/2025
Supervised By :Mahesh Dadoda 11/24/2025

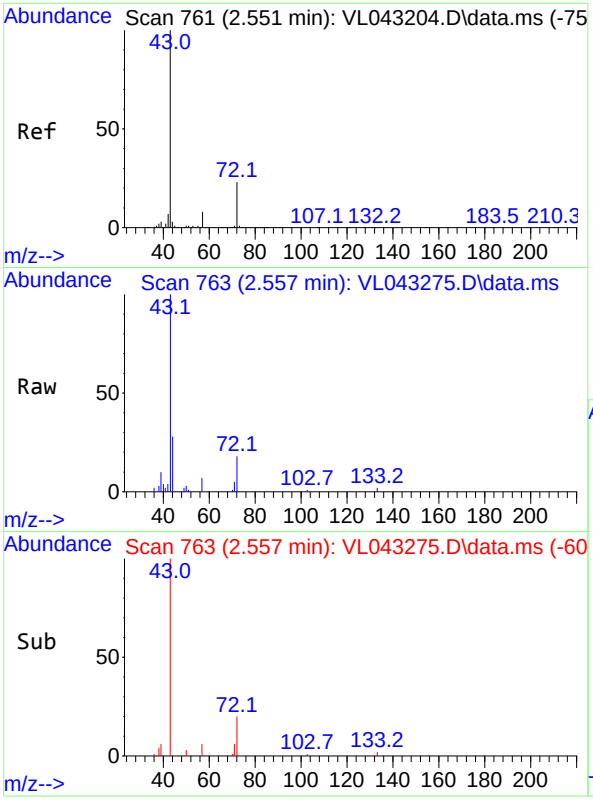


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:114 Resp: 261008

Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.0	31.6
88	18.2	14.9	22.3

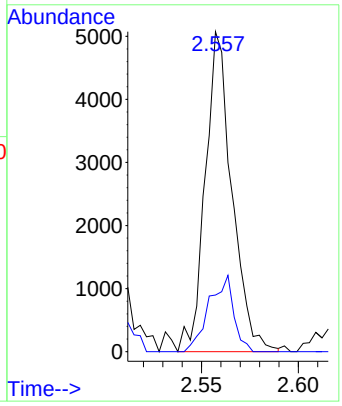




#34
2-Butanone
Concen: 0.265 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 43 Resp: 487

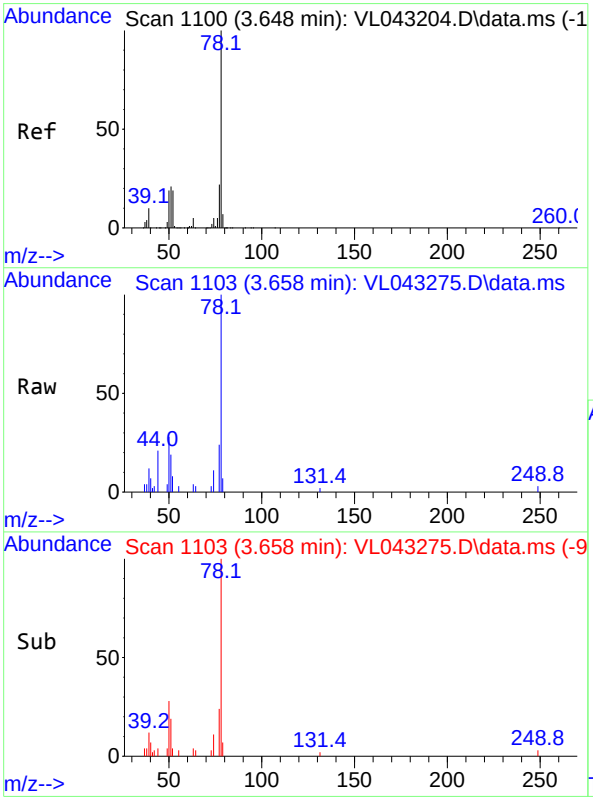
Ion	Ratio	Lower	Upper
43	100		
72	22.0	18.1	27.1



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Manual Integrations
APPROVED

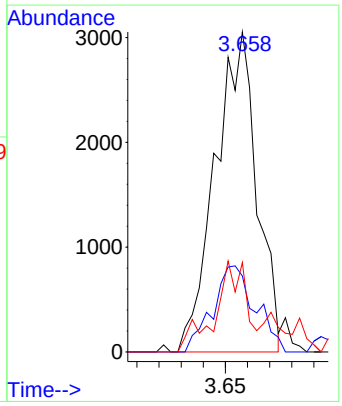
Reviewed By :Semsettin Yesilyurt 11/24/2025
Supervised By :Mahesh Dadoda 11/24/2025

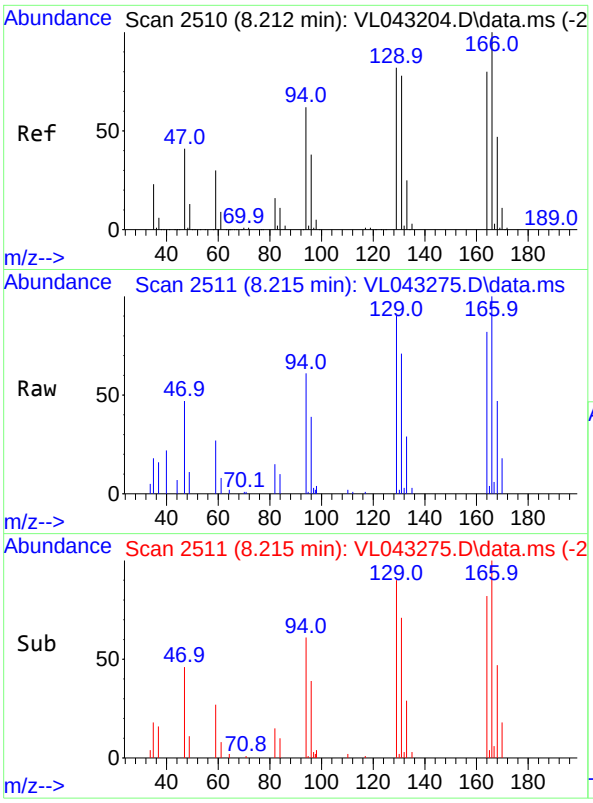


#36
Benzene
Concen: 0.160 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.009 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 78 Resp: 3988

Ion	Ratio	Lower	Upper
78	100		
77	23.7	17.5	26.3
50	27.9	15.5	23.3#

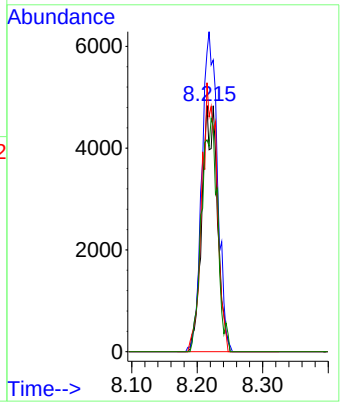




#52
Tetrachloroethene
Concen: 0.847 ppbv m
RT: 8.215 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:164 Resp: 787

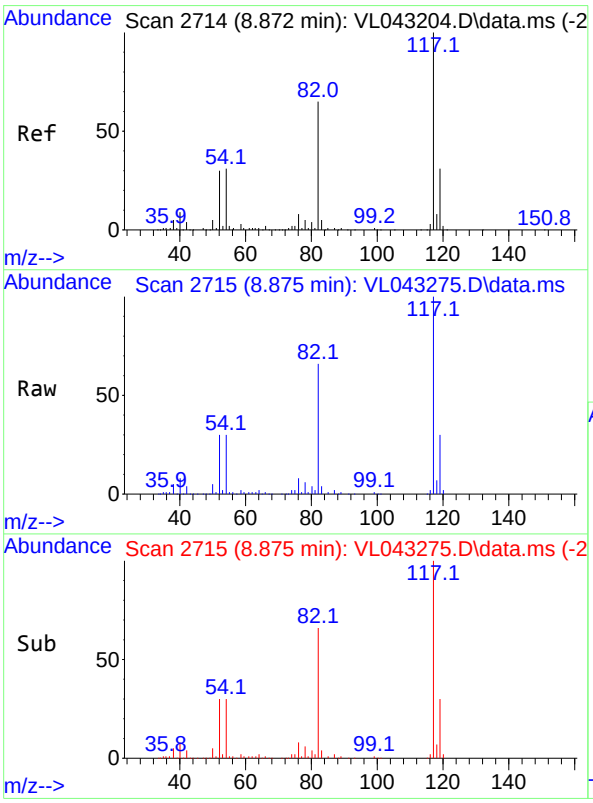
Ion	Ratio	Lower	Upper
164	100		
166	121.6	99.4	149.2
129	109.3	81.8	122.8
131	86.1	77.4	116.2



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Manual Integrations
APPROVED

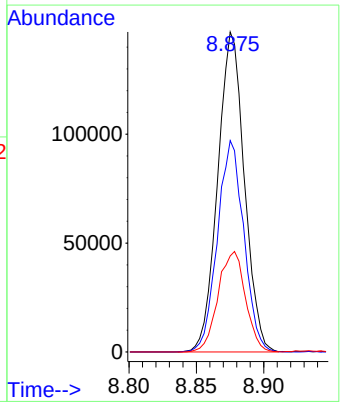
Reviewed By :Semsettin Yesilyurt 11/24/2025
Supervised By :Mahesh Dadoda 11/24/2025

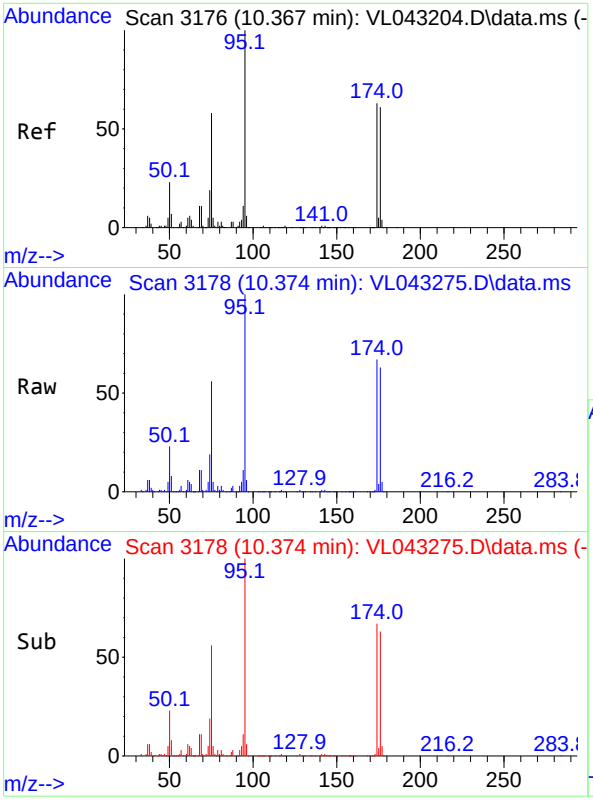


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:117 Resp: 202177

Ion	Ratio	Lower	Upper
117	100		
82	65.5	56.1	84.1
119	32.3	25.0	37.6

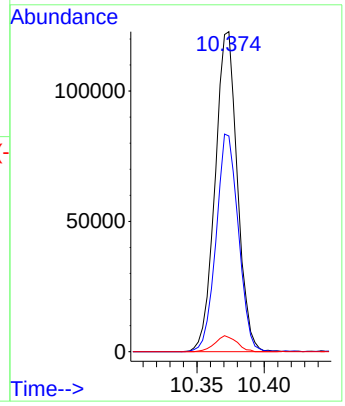




#68
1-Bromo-4-Fluorobenzene
Concen: 9.514 ppbv
RT: 10.374 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 95 Resp: 14099

Ion	Ratio	Lower	Upper
95	100		
174	68.3	50.2	75.2
175	4.9	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/24/2025
Supervised By :Mahesh Dadoda 11/24/2025

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	14-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-10	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.51	2.52	J	2	1.09	4.94	11/19/25 17:47	VL111925
74-87-3	Chloromethane	0.28	0.58	J	2	0.41	2.07	11/19/25 17:47	VL111925
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/19/25 17:47	VL111925
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/19/25 17:47	VL111925
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/19/25 17:47	VL111925
109-99-9	Tetrahydrofuran	0.16	0.47	U	2	0.47	2.95	11/19/25 17:47	VL111925
75-69-4	Trichlorofluoromethane	0.34	1.91	U	2	1.91	5.62	11/19/25 17:47	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/19/25 17:47	VL111925
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/19/25 17:47	VL111925
75-65-0	tert-Butyl alcohol	0.32	0.97	U	2	0.97	3.03	11/19/25 17:47	VL111925
142-82-5	Heptane	0.34	1.39	U	2	1.39	4.10	11/19/25 17:47	VL111925
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/19/25 17:47	VL111925
67-64-1	Acetone	26.8	63.7		2	0.86	2.38	11/19/25 17:47	VL111925
75-15-0	Carbon Disulfide	0.94	2.93	J	2	0.50	3.11	11/19/25 17:47	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/19/25 17:47	VL111925
75-09-2	Methylene Chloride	0.49	1.70	J	2	1.60	3.47	11/19/25 17:47	VL111925
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/19/25 17:47	VL111925
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/19/25 17:47	VL111925
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/19/25 17:47	VL111925
78-93-3	2-Butanone	1.40	4.13		2	0.32	2.95	11/19/25 17:47	VL111925
56-23-5	Carbon Tetrachloride	0.070	0.44		2	0.31	0.38	11/19/25 17:47	VL111925
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/19/25 17:47	VL111925
67-66-3	Chloroform	0.19	0.93	U	2	0.93	4.88	11/19/25 17:47	VL111925
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	2	0.16	0.33	11/19/25 17:47	VL111925
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/19/25 17:47	VL111925
71-43-2	Benzene	1.00	3.19		2	0.51	3.19	11/19/25 17:47	VL111925
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/19/25 17:47	VL111925
79-01-6	Trichloroethene	0.050	0.27	U	2	0.27	0.32	11/19/25 17:47	VL111925
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/19/25 17:47	VL111925
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/19/25 17:47	VL111925
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	U	2	0.78	4.10	11/19/25 17:47	VL111925
108-88-3	Toluene	0.40	1.51	J	2	1.21	3.77	11/19/25 17:47	VL111925
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/19/25 17:47	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/19/25 17:47	VL111925
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/19/25 17:47	VL111925
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/19/25 17:47	VL111925
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/19/25 17:47	VL111925
127-18-4	Tetrachloroethene	2.70	18.3		2	0.20	0.41	11/19/25 17:47	VL111925
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/19/25 17:47	VL111925
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/19/25 17:47	VL111925
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/19/25 17:47	VL111925
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/19/25 17:47	VL111925
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/19/25 17:47	VL111925
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/19/25 17:47	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/19/25 17:47	VL111925
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/19/25 17:47	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	14-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-10	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 17:47	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 17:47	VL111925
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/19/25 17:47	VL111925
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 17:47	VL111925
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 17:47	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/19/25 17:47	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/19/25 17:47	VL111925
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/19/25 17:47	VL111925
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/19/25 17:47	VL111925
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/19/25 17:47	VL111925
110-54-3	Hexane	0.94	3.31	J	2	1.13	3.52	11/19/25 17:47	VL111925
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/19/25 17:47	VL111925
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/19/25 17:47	VL111925
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/19/25 17:47	VL111925
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.0				70 (65) - 130 (135)	100% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	107000							
540-36-3	1,4-Difluorobenzene	285000							
3114-55-4	Chlorobenzene-d5	228000							

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\VL111925\
Data File : VL043244.D
Acq On : 19 Nov 2025 17:47
Operator : SY/MD
Sample : Q3626-10 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:08:08 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 :
14-SG-1

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	2.781	49	106615	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	284605	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	227663	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	166196	9.959	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3851	0.256	ppbv		99
4) Chloromethane	1.531	50	789	0.140	ppbv	#	45
9) Propene	1.486	41	4977	0.793	ppbv	#	1
10) Heptane	4.972	43	1959m	0.105	ppbv		
11) Trichlorofluoromethane	1.874	101	2218	0.152	ppbv	#	62
13) Ethanol	1.719	45	28478	12.896	ppbv		97
15) Acetone	1.832	43	198363	13.392	ppbv		100
17) tert-Butyl alcohol	2.043	59	2623	0.135	ppbv	#	87
19) Isopropyl Alcohol	1.884	45	62615	7.481	ppbv	#	30
20) Methylene Chloride	2.062	84	4407	0.244	ppbv	#	82
26) Hexane	2.819	57	6594	0.471	ppbv	#	51
27) Carbon Disulfide	2.149	76	6722	0.470	ppbv	#	1
34) 2-Butanone	2.551	43	13918	0.693	ppbv		96
35) Carbon Tetrachloride	3.752	117	723m	0.033	ppbv		
36) Benzene	3.648	78	14120	0.518	ppbv	#	88
52) Tetrachloroethene	8.215	164	13878	1.369	ppbv		92
53) Toluene	6.927	91	6512m	0.202	ppbv		
59) m/p-Xylene	9.526	91	8081m	0.230	ppbv		
62) Isopropylbenzene	10.529	105	18013	0.287	ppbv		93
74) 1,2,4-Trimethylbenzene	11.526	105	5794	0.148	ppbv	#	48

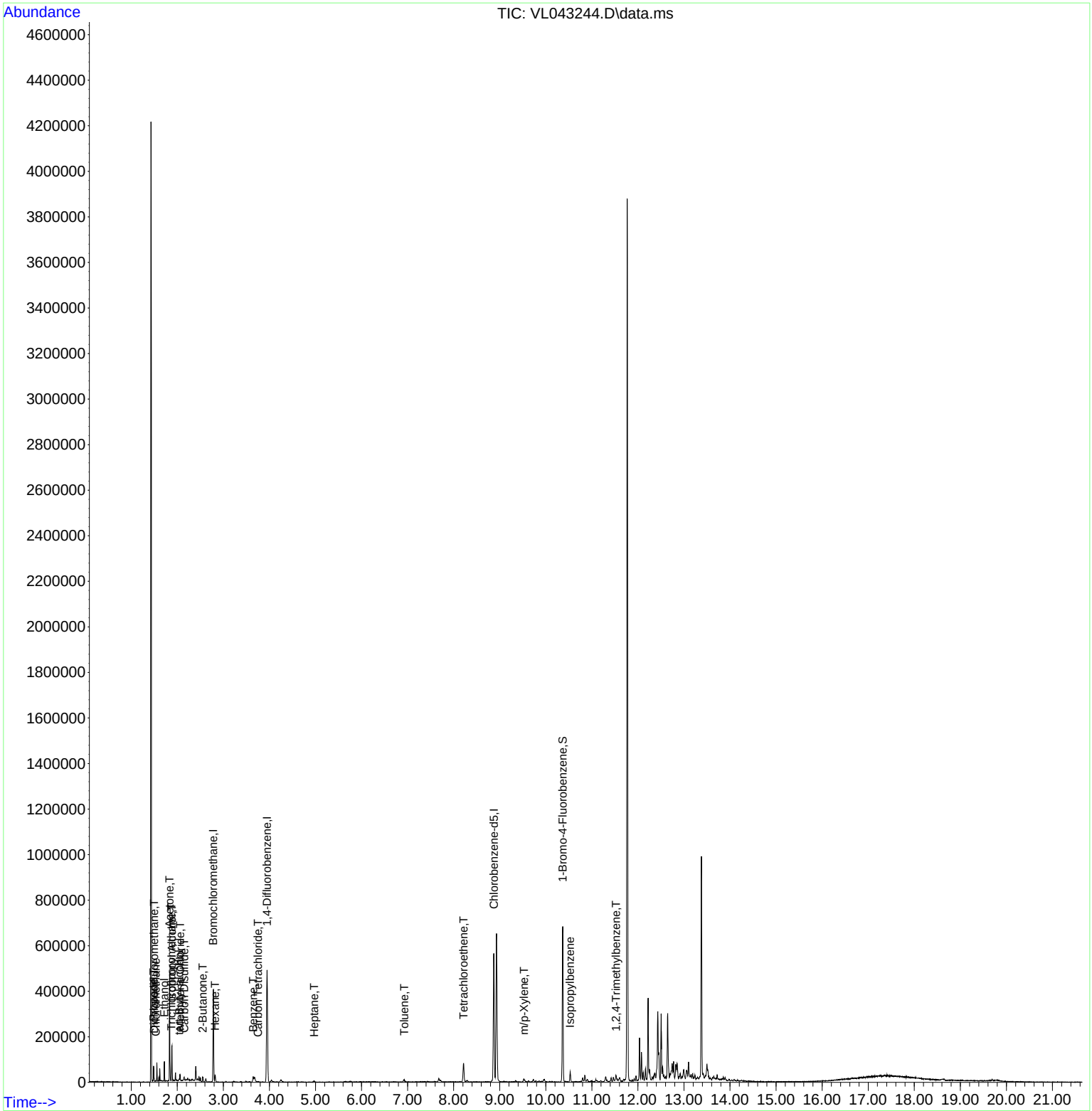
(#) = qualifier out of range (m) = manual integration (+) = signals summed

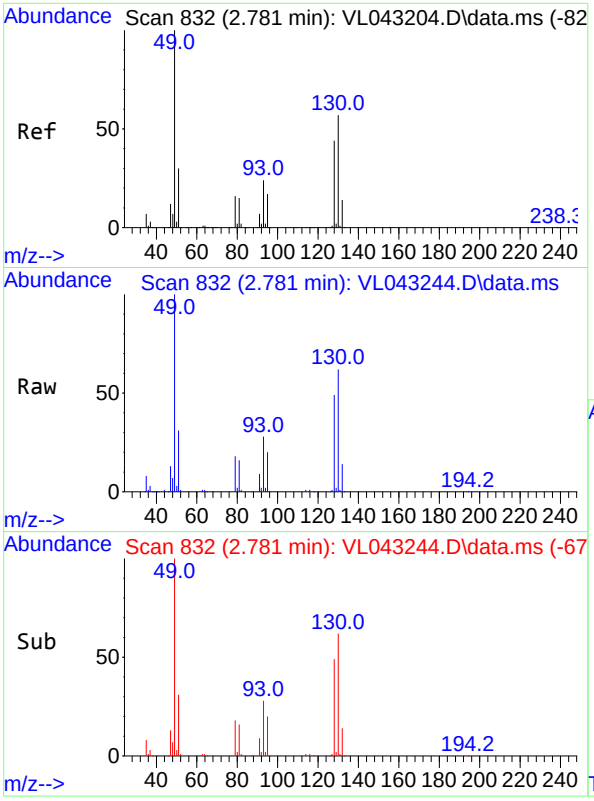
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043244.D
Acq On : 19 Nov 2025 17:47
Operator : SY/MD
Sample : Q3626-10 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:08:08 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 :
14-SG-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

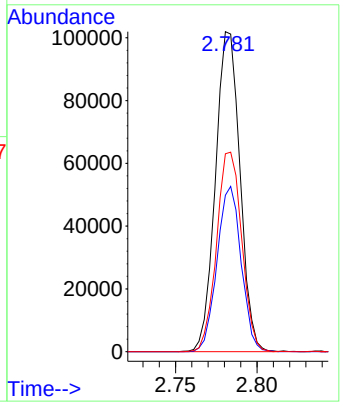




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 49 Resp: 10661

Ion	Ratio	Lower	Upper
49	100		
128	50.7	23.0	69.0
130	64.0	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

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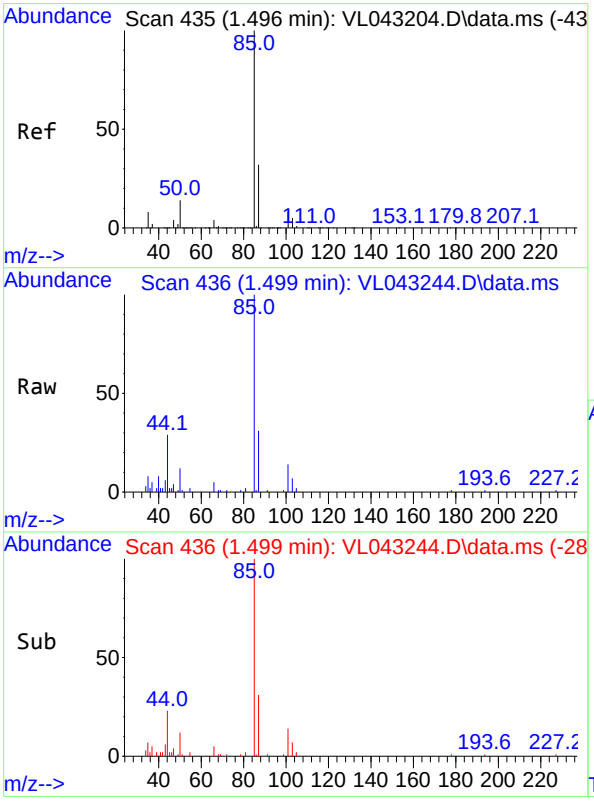
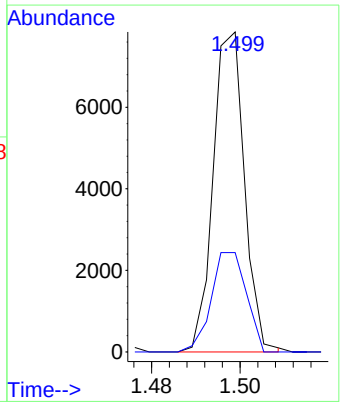
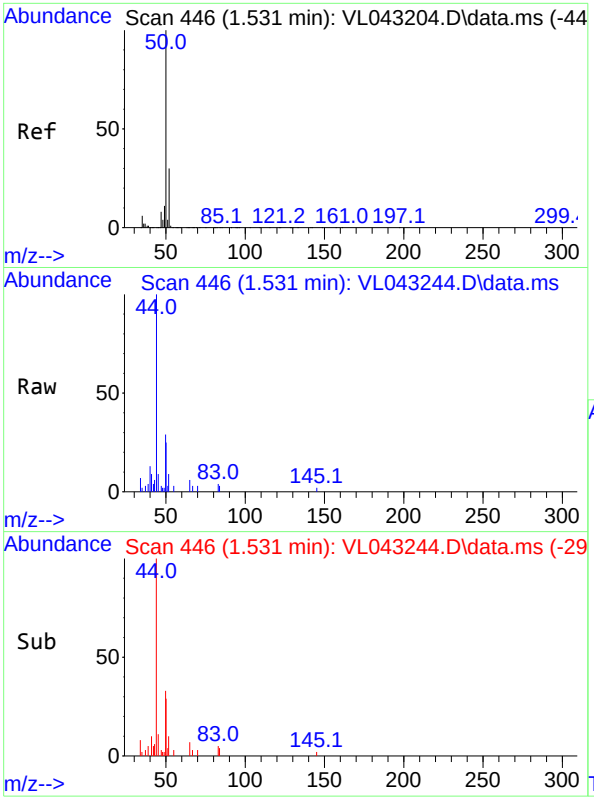


#2
Dichlorodifluoromethane
Concen: 0.256 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 85 Resp: 3851

Ion	Ratio	Lower	Upper
85	100		
87	31.0	25.4	38.2

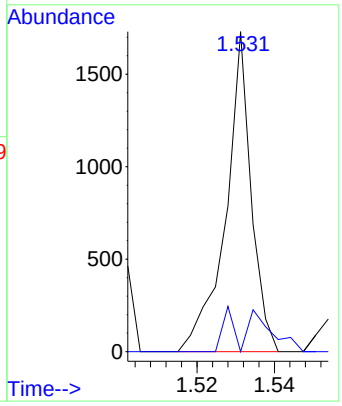




#4
Chloromethane
Concen: 0.140 ppbv
RT: 1.531 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 50 Resp: 78

Ion	Ratio	Lower	Upper
50	100		
52	0.0	24.1	36.1#



Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

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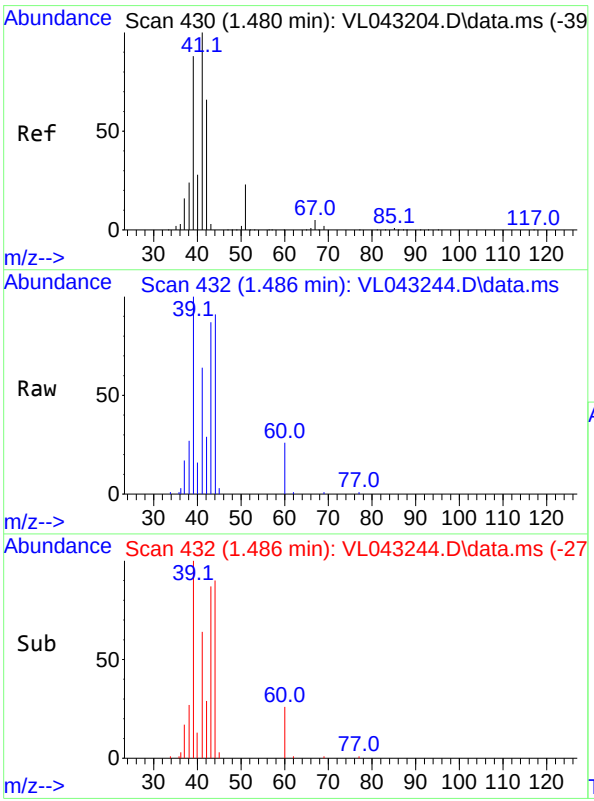
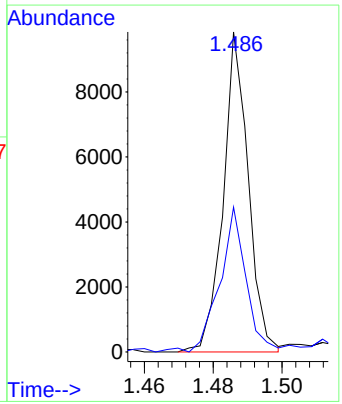
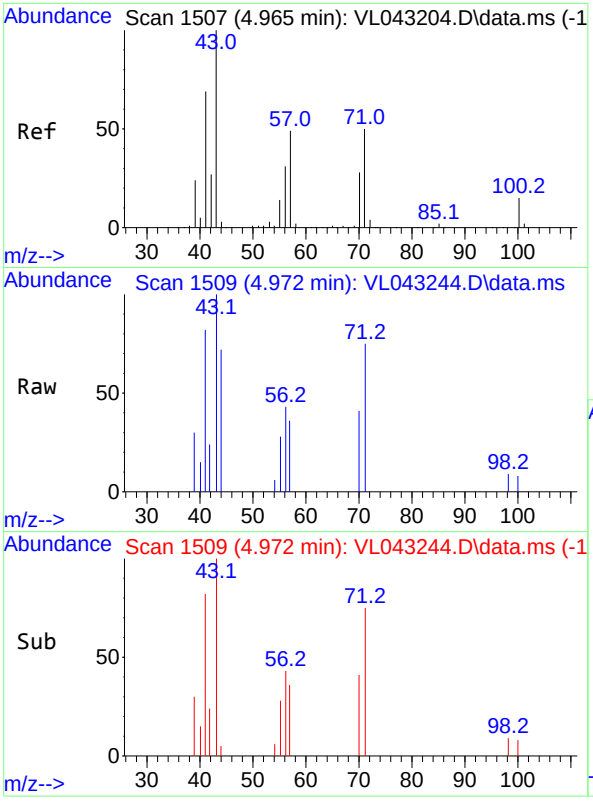


#9
Propene
Concen: 0.793 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 41 Resp: 4977

Ion	Ratio	Lower	Upper
41	100		
42	49.5	3.7	5.5#

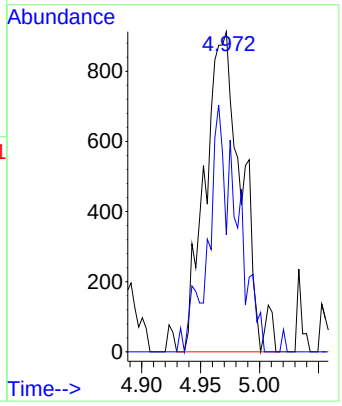




#10
Heptane
Concen: 0.105 ppbv m
RT: 4.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 43 Resp: 195

Ion	Ratio	Lower	Upper
43	100		
57	61.4	39.7	59.5#



Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

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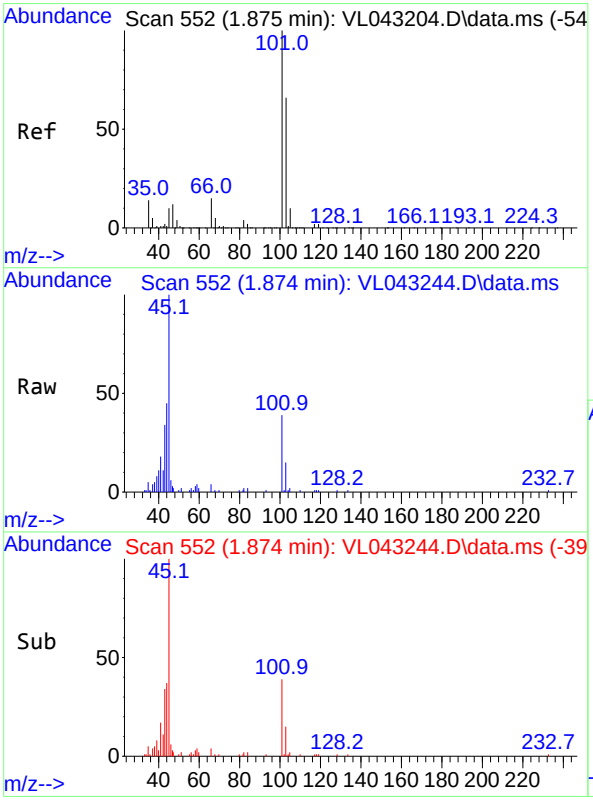
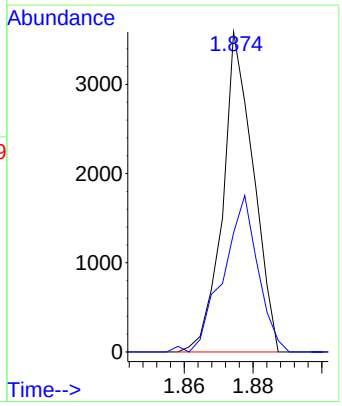
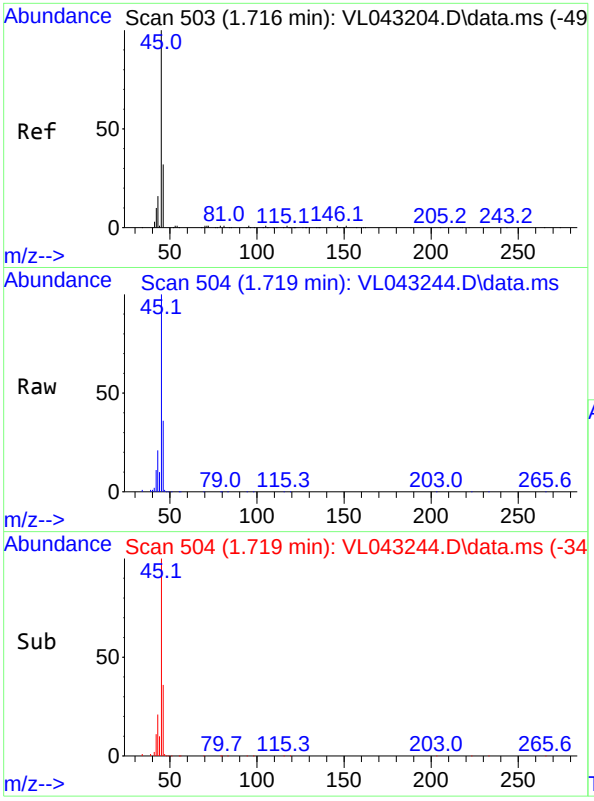


#11
Trichlorofluoromethane
Concen: 0.152 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion:101 Resp: 2218

Ion	Ratio	Lower	Upper
101	100		
103	35.5	52.6	79.0#

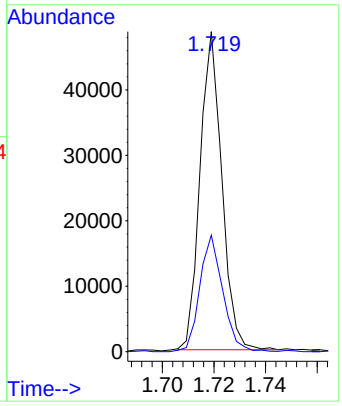




#13
Ethanol
Concen: 12.896 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 45 Resp: 2847

Ion	Ratio	Lower	Upper
45	100		
46	39.3	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

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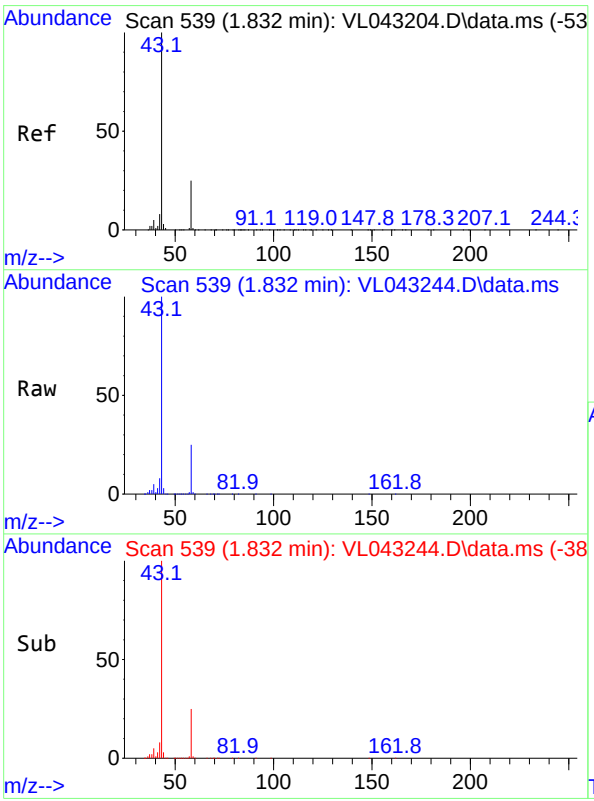
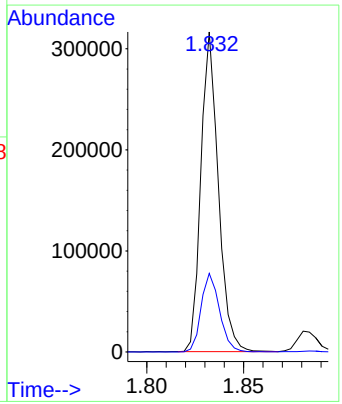
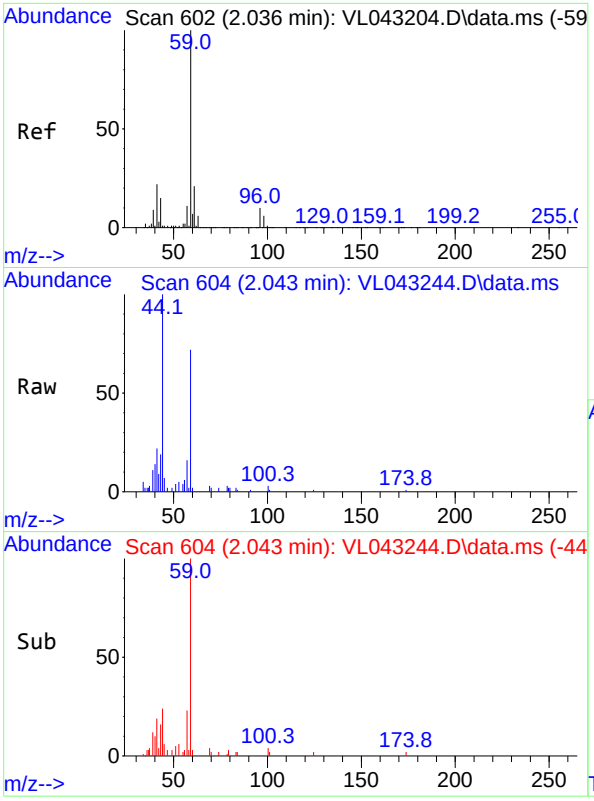


#15
Acetone
Concen: 13.392 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 43 Resp: 198363

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1





#17
tert-Butyl alcohol
Concen: 0.135 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 59 Resp: 262

Ion	Ratio	Lower	Upper
59	100		
57	16.2	9.0	13.4#

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

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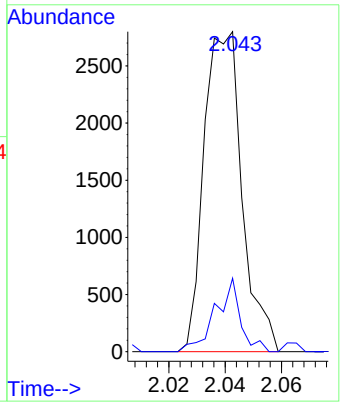
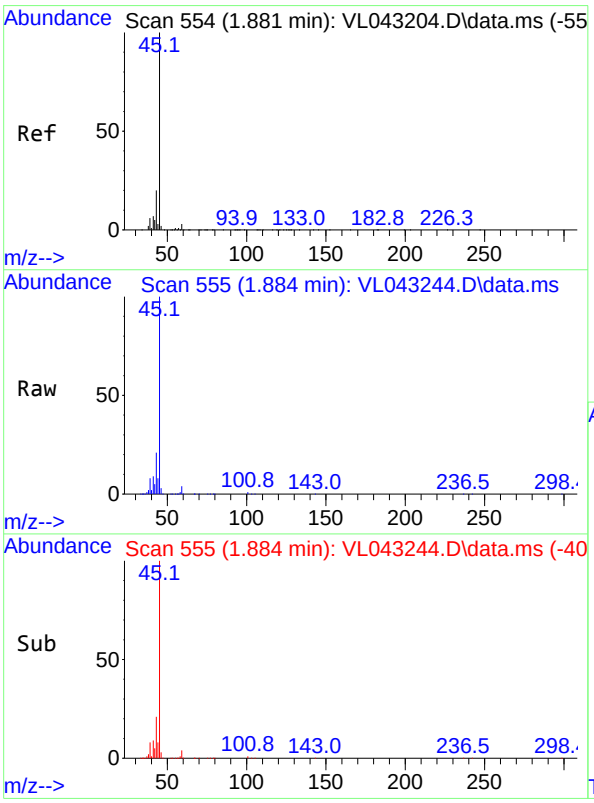
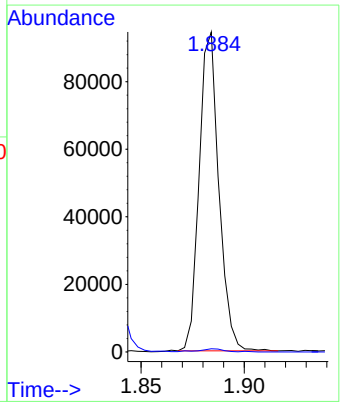


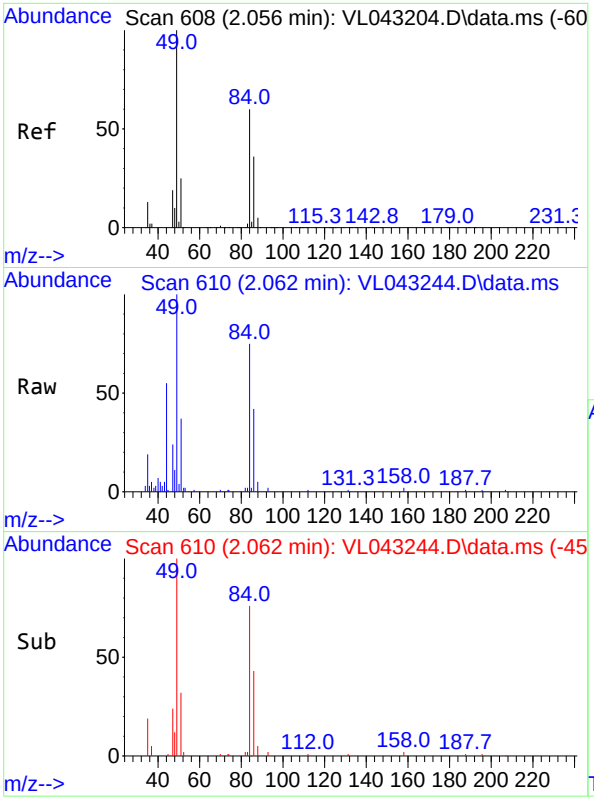


#19
Isopropyl Alcohol
Concen: 7.481 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 45 Resp: 62615

Ion	Ratio	Lower	Upper
45	100		
58	82.2	31.3	46.9#

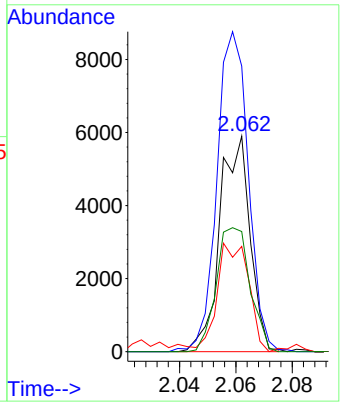




#20
Methylene Chloride
Concen: 0.244 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 84 Resp: 440

Ion	Ratio	Lower	Upper
84	100		
49	131.6	132.9	199.3#
51	47.3	34.8	52.2
86	55.8	48.2	72.2



Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Manual Integrations
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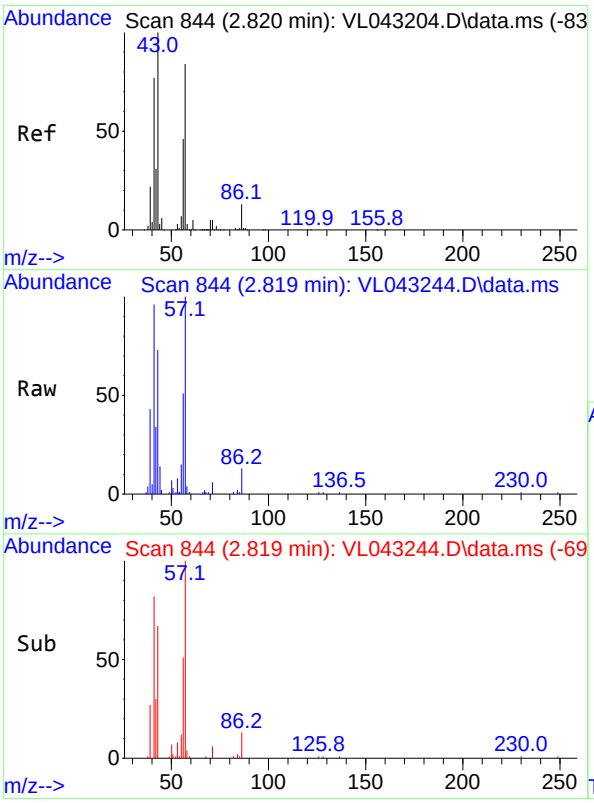
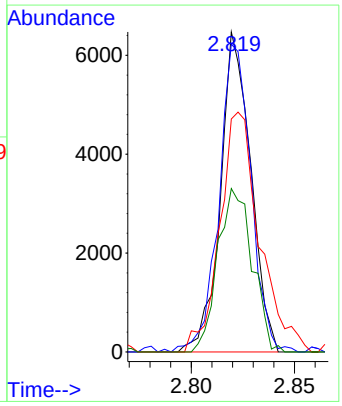
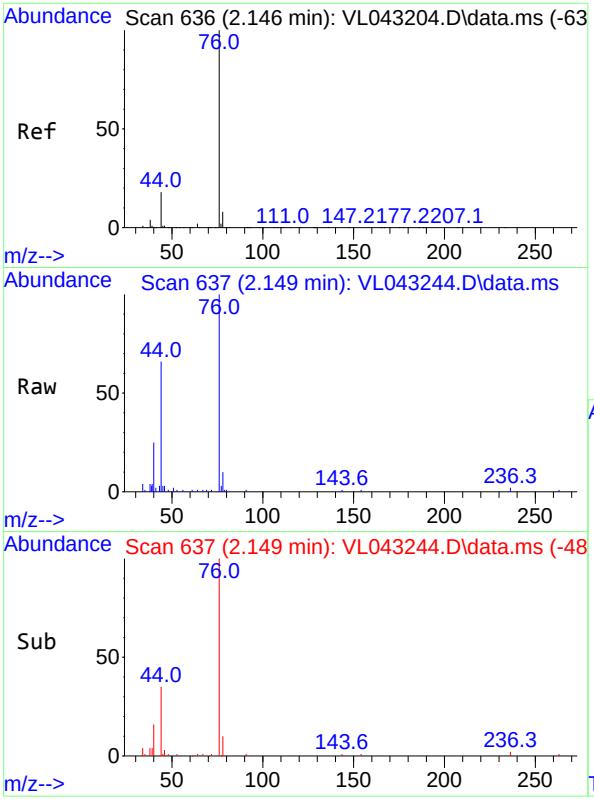


#26
Hexane
Concen: 0.471 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 57 Resp: 6594

Ion	Ratio	Lower	Upper
57	100		
41	101.9	74.6	111.8
43	100.7	179.0	268.4#
56	58.3	42.3	63.5

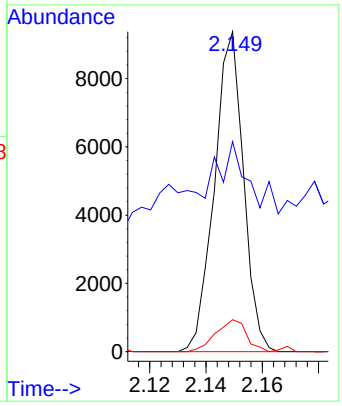




#27
Carbon Disulfide
Concen: 0.470 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 76 Resp: 672

Ion	Ratio	Lower	Upper
76	100		
44	239.2	16.1	24.1#
78	11.2	9.6	14.4



Instrument :
MSVOA_L
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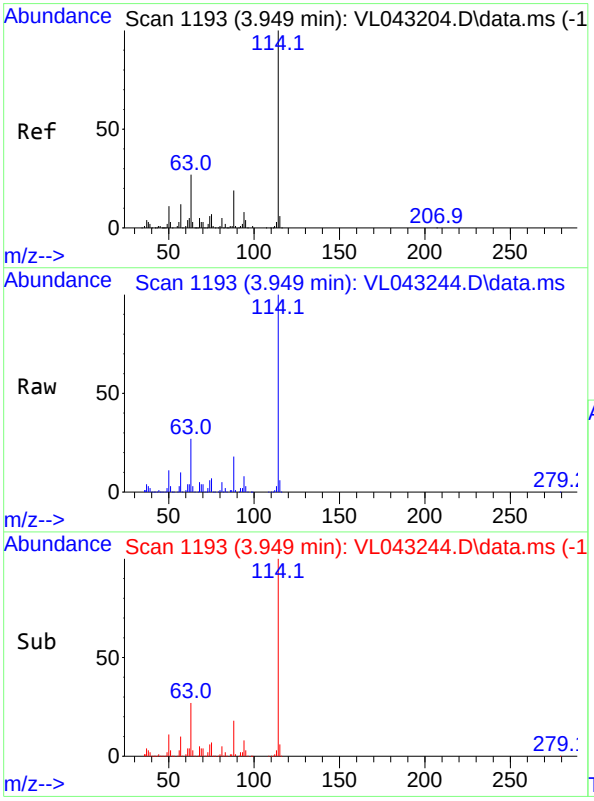
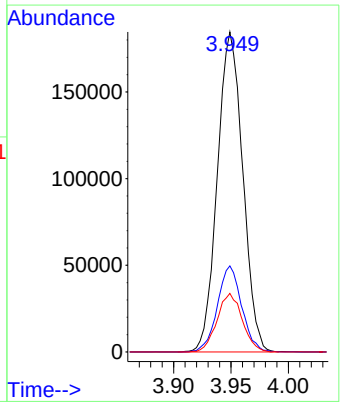
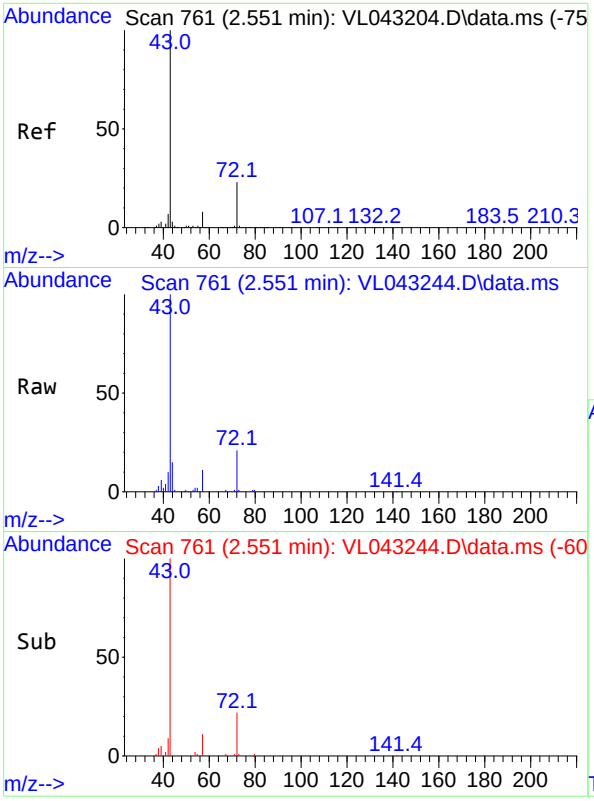


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion:114 Resp: 284605

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	18.2	14.9	22.3

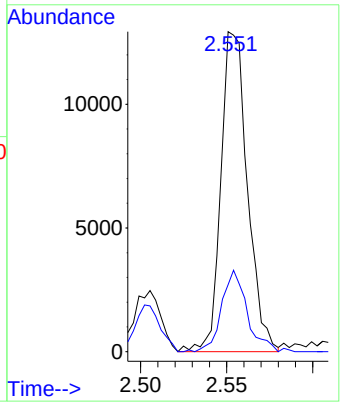




#34
2-Butanone
Concen: 0.693 ppbv
RT: 2.551 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 43 Resp: 1391

Ion	Ratio	Lower	Upper
43	100		
72	24.5	18.1	27.1



Instrument :
MSVOA_L
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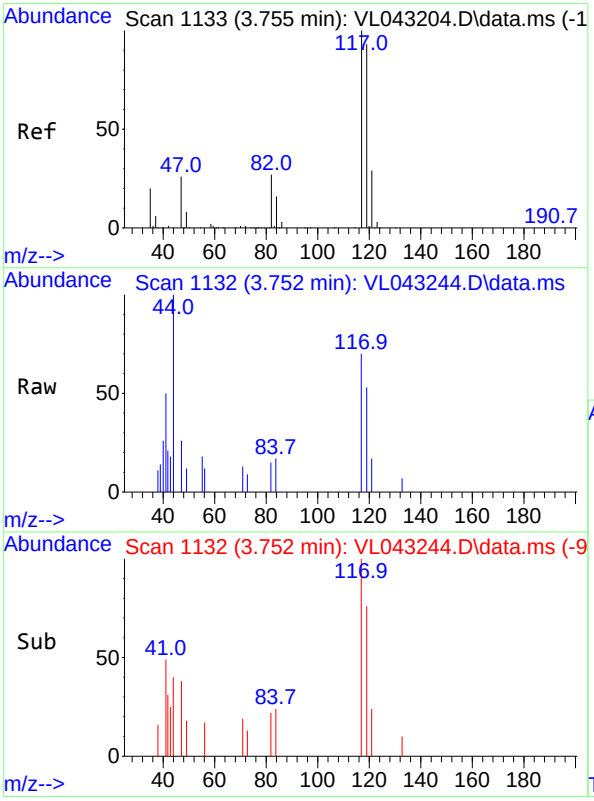
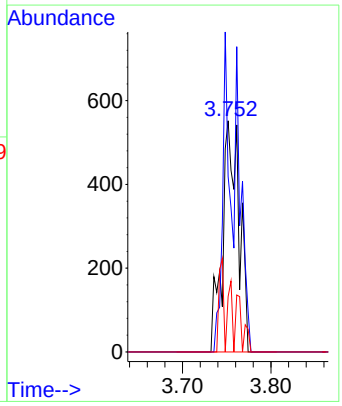
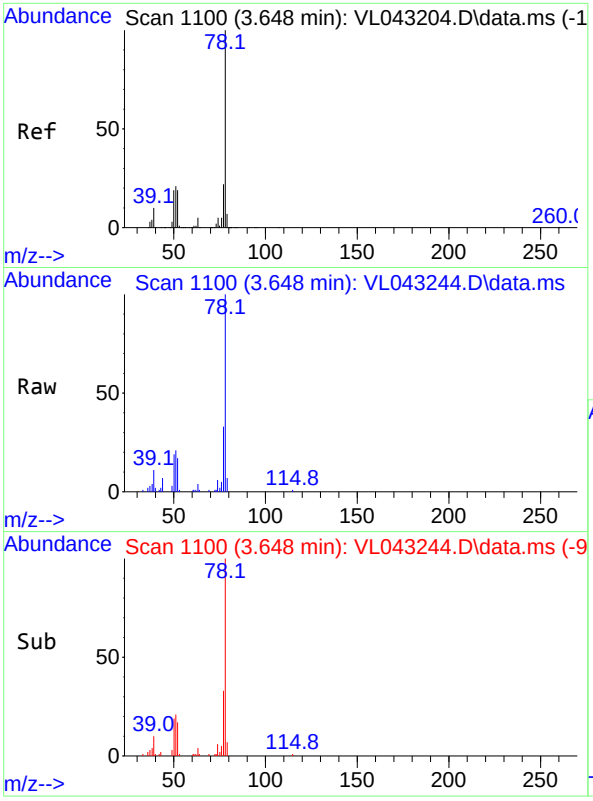


#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.752 min Scan# 1132
Delta R.T. -0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion:117 Resp: 723

Ion	Ratio	Lower	Upper
117	100		
119	75.9	74.6	112.0
121	23.9	23.2	34.8

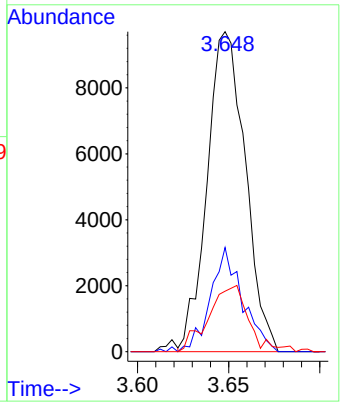




#36
Benzene
Concen: 0.518 ppbv
RT: 3.648 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 78 Resp: 1412

Ion	Ratio	Lower	Upper
78	100		
77	32.6	17.5	26.3#
50	18.9	15.5	23.3



Instrument :
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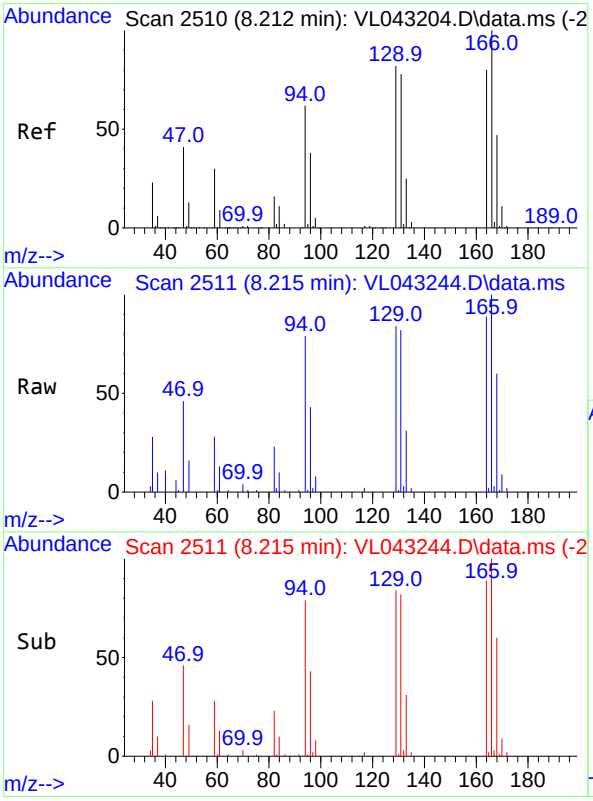
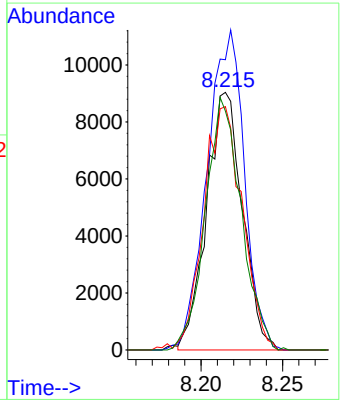
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

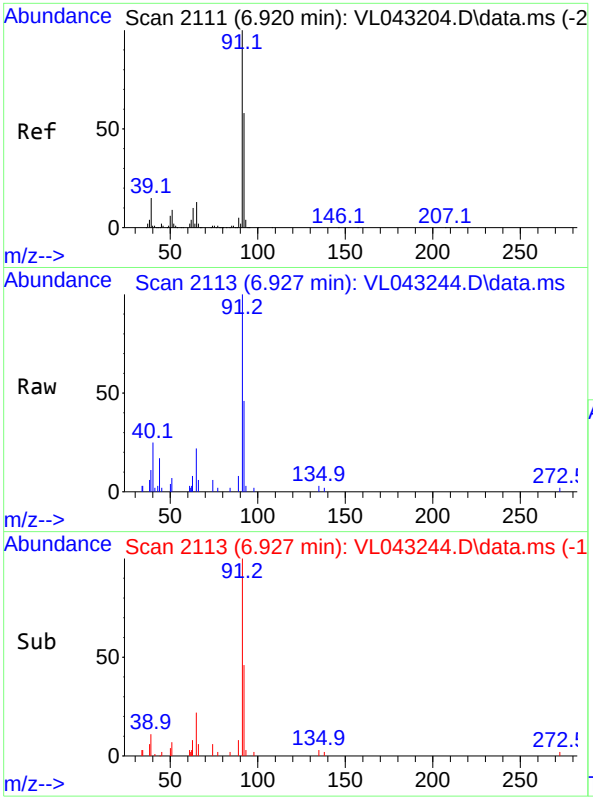


#52
Tetrachloroethene
Concen: 1.369 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion:164 Resp: 13878

Ion	Ratio	Lower	Upper
164	100		
166	111.6	99.4	149.2
129	94.5	81.8	122.8
131	92.7	77.4	116.2

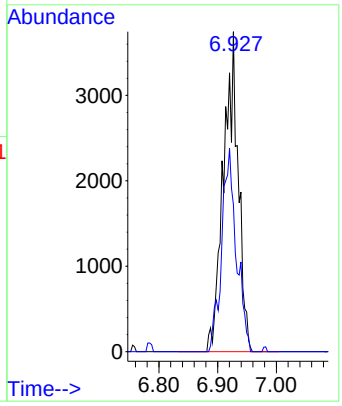




#53
Toluene
Concen: 0.202 ppbv m
RT: 6.927 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 91 Resp: 651

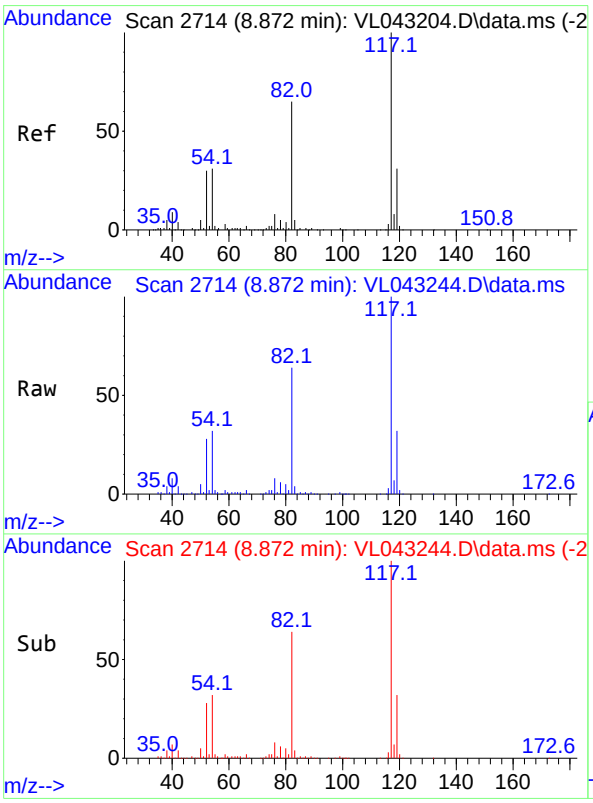
Ion	Ratio	Lower	Upper
91	100		
92	63.8	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Manual Integrations
APPROVED

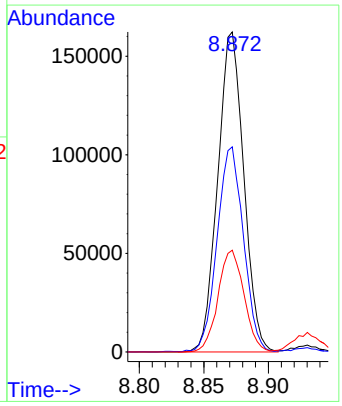
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

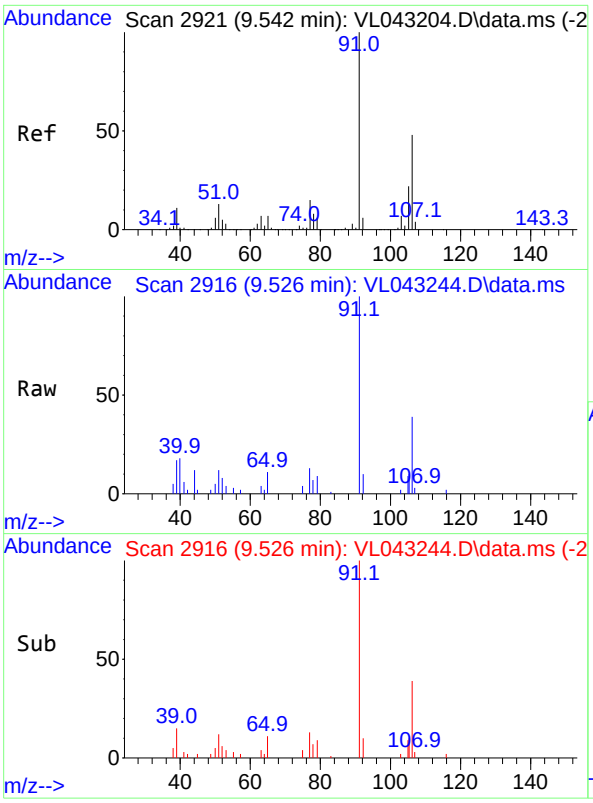


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion:117 Resp: 227663

Ion	Ratio	Lower	Upper
117	100		
82	65.1	56.1	84.1
119	31.8	25.0	37.6





#59
m/p-Xylene
Concen: 0.230 ppbv m
RT: 9.526 min Scan# 2
Delta R.T. -0.016 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

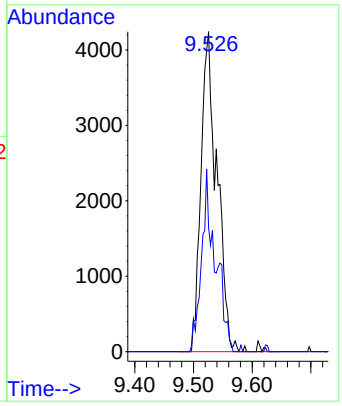
Tgt Ion: 91 Resp: 808

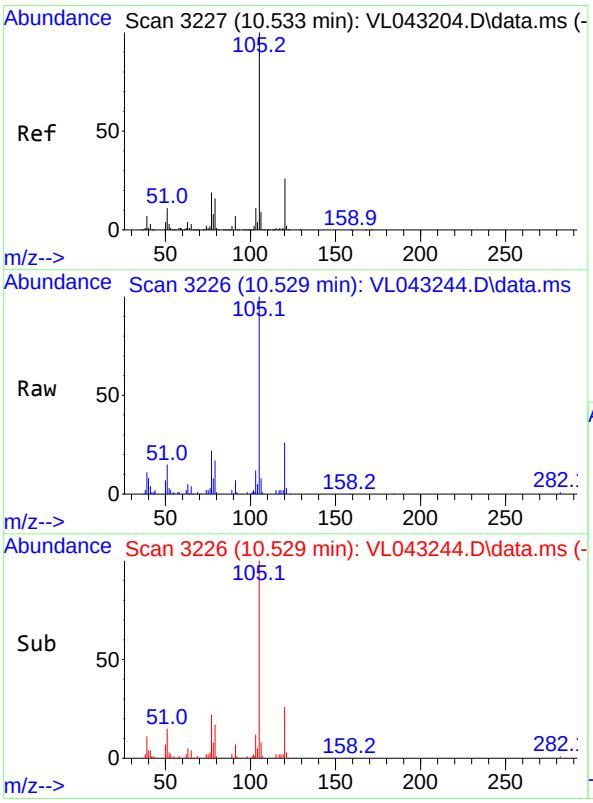
Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

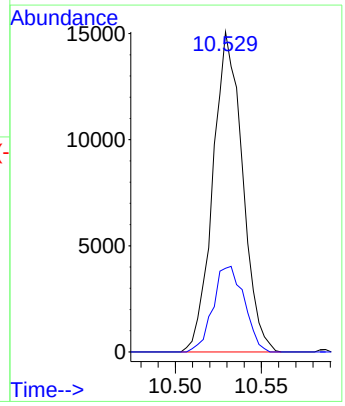


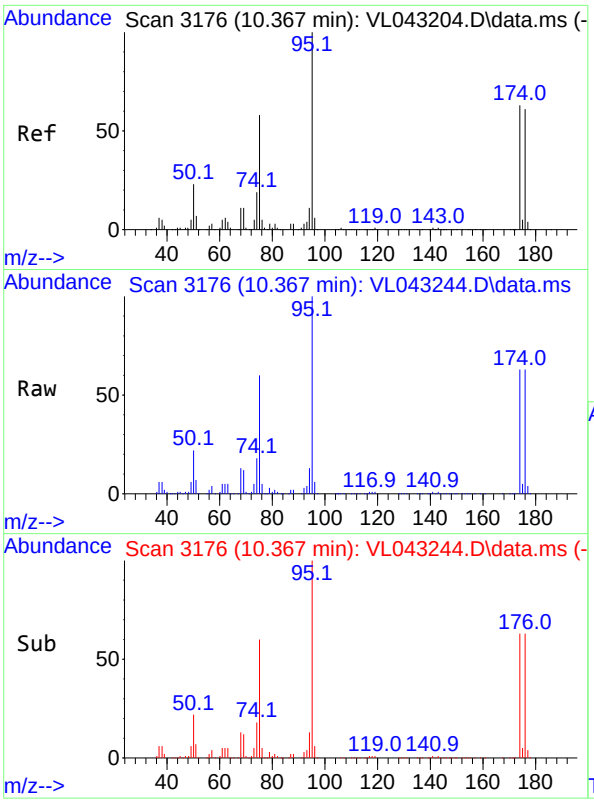


#62
Isopropylbenzene
Concen: 0.287 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion:105 Resp: 18013

Ion	Ratio	Lower	Upper
105	100		
120	28.2	19.8	29.8

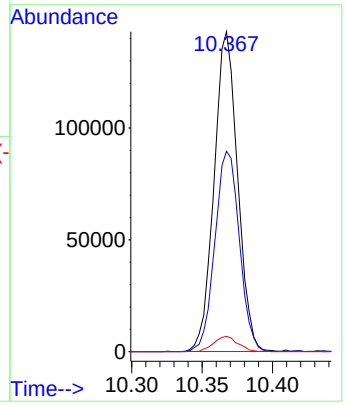




#68
1-Bromo-4-Fluorobenzene
Concen: 9.959 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 95 Resp: 16619

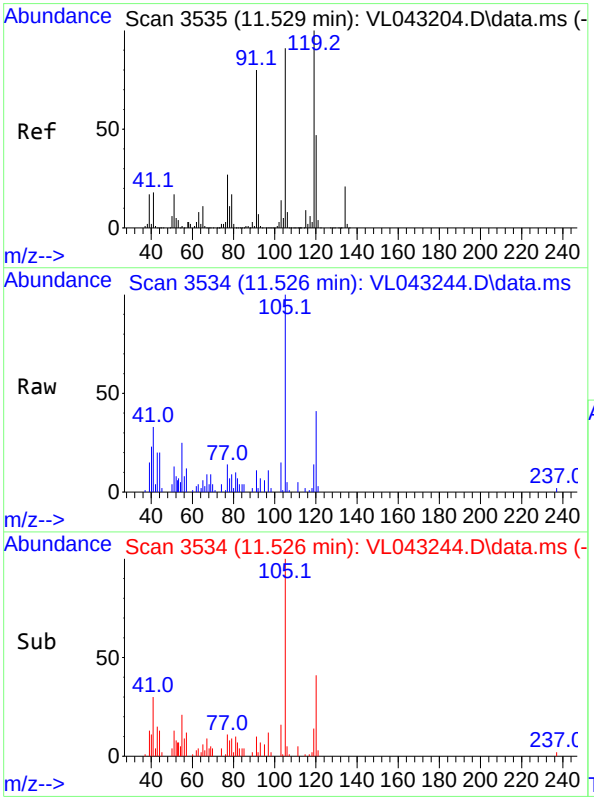
Ion	Ratio	Lower	Upper
95	100		
174	65.5	50.2	75.2
175	5.0	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Manual Integrations
APPROVED

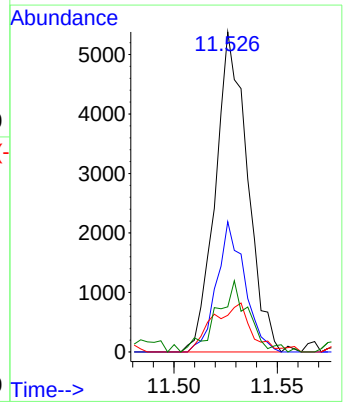
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.148 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion:105 Resp: 5794

Ion	Ratio	Lower	Upper
105	100		
120	40.7	41.7	62.5#
91	11.4	70.0	105.0#
77	14.1	23.8	35.8#



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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	15-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-11	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	0.50	2.47	J	2	1.09	4.94	11/19/25 18:21	VL111925
74-87-3	Chloromethane	0.20	0.41	U	2	0.41	2.07	11/19/25 18:21	VL111925
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/19/25 18:21	VL111925
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/19/25 18:21	VL111925
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/19/25 18:21	VL111925
109-99-9	Tetrahydrofuran	0.16	0.47	U	2	0.47	2.95	11/19/25 18:21	VL111925
75-69-4	Trichlorofluoromethane	0.34	1.91	U	2	1.91	5.62	11/19/25 18:21	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/19/25 18:21	VL111925
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/19/25 18:21	VL111925
75-65-0	tert-Butyl alcohol	1.90	5.76		2	0.97	3.03	11/19/25 18:21	VL111925
142-82-5	Heptane	1.40	5.74		2	1.39	4.10	11/19/25 18:21	VL111925
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/19/25 18:21	VL111925
67-64-1	Acetone	85.9	204	E	2	0.86	2.38	11/19/25 18:21	VL111925
75-15-0	Carbon Disulfide	0.69	2.15	J	2	0.50	3.11	11/19/25 18:21	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/19/25 18:21	VL111925
75-09-2	Methylene Chloride	2.40	8.34		2	1.60	3.47	11/19/25 18:21	VL111925
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/19/25 18:21	VL111925
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/19/25 18:21	VL111925
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/19/25 18:21	VL111925
78-93-3	2-Butanone	5.20	15.3		2	0.32	2.95	11/19/25 18:21	VL111925
56-23-5	Carbon Tetrachloride	0.050	0.31	U	2	0.31	0.38	11/19/25 18:21	VL111925
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/19/25 18:21	VL111925
67-66-3	Chloroform	0.33	1.61	J	2	0.93	4.88	11/19/25 18:21	VL111925
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	2	0.16	0.33	11/19/25 18:21	VL111925
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/19/25 18:21	VL111925
71-43-2	Benzene	0.39	1.25	J	2	0.51	3.19	11/19/25 18:21	VL111925
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/19/25 18:21	VL111925
79-01-6	Trichloroethene	0.050	0.27	U	2	0.27	0.32	11/19/25 18:21	VL111925
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/19/25 18:21	VL111925
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/19/25 18:21	VL111925
108-10-1	4-Methyl-2-Pentanone	2.90	11.9		2	0.78	4.10	11/19/25 18:21	VL111925
108-88-3	Toluene	0.51	1.92	J	2	1.21	3.77	11/19/25 18:21	VL111925
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/19/25 18:21	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/19/25 18:21	VL111925
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/19/25 18:21	VL111925
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/19/25 18:21	VL111925
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/19/25 18:21	VL111925
127-18-4	Tetrachloroethene	5.70	38.6		2	0.20	0.41	11/19/25 18:21	VL111925
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/19/25 18:21	VL111925
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/19/25 18:21	VL111925
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/19/25 18:21	VL111925
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/19/25 18:21	VL111925
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/19/25 18:21	VL111925
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/19/25 18:21	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/19/25 18:21	VL111925
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/19/25 18:21	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	15-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-11	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 18:21	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 18:21	VL111925
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/19/25 18:21	VL111925
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 18:21	VL111925
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 18:21	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/19/25 18:21	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/19/25 18:21	VL111925
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/19/25 18:21	VL111925
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/19/25 18:21	VL111925
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/19/25 18:21	VL111925
110-54-3	Hexane	3.70	13.0		2	1.13	3.52	11/19/25 18:21	VL111925
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/19/25 18:21	VL111925
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/19/25 18:21	VL111925
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/19/25 18:21	VL111925
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	105000							
540-36-3	1,4-Difluorobenzene	286000							
3114-55-4	Chlorobenzene-d5	229000							

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\VL111925\
Data File : VL043245.D
Acq On : 19 Nov 2025 18:21
Operator : SY/MD
Sample : Q3626-11 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:08:38 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 :
15-SG-1

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	105038	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	285629	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	229034	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	169788	10.114	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3683	0.249	ppbv		92
9) Propene	1.486	41	6938	1.121	ppbv	#	1
10) Heptane	4.965	43	12970m	0.704	ppbv		
11) Trichlorofluoromethane	1.877	101	1794	0.125	ppbv	#	81
13) Ethanol	1.719	45	76497	35.162	ppbv		99
15) Acetone	1.832	43	626747	42.948	ppbv		99
17) tert-Butyl alcohol	2.039	59	17850	0.932	ppbv		95
19) Isopropyl Alcohol	1.884	45	29002	3.517	ppbv	#	36
20) Methylene Chloride	2.062	84	8219	1.222	ppbv	#	89
26) Hexane	2.823	57	25231	1.828	ppbv	#	42
27) Carbon Disulfide	2.149	76	4895	0.347	ppbv	#	1
29) Chloroform	2.845	83	3234	0.165	ppbv	#	82
34) 2-Butanone	2.554	43	52225	2.590	ppbv		99
36) Benzene	3.651	78	5287	0.193	ppbv	#	81
50) 4-Methyl-2-Pentanone	5.742	43	41766m	1.471	ppbv		
51) 2-Hexanone	7.428	43	13282m	0.602	ppbv		
52) Tetrachloroethene	8.218	164	29129	2.863	ppbv		96
53) Toluene	6.927	91	8300m	0.256	ppbv		
59) m/p-Xylene	9.526	91	9279m	0.263	ppbv		
60) o-Xylene	9.956	91	3886m	0.110	ppbv		
61) Styrene	9.865	104	1911m	0.124	ppbv		
74) 1,2,4-Trimethylbenzene	11.532	105	4969	0.126	ppbv	#	47

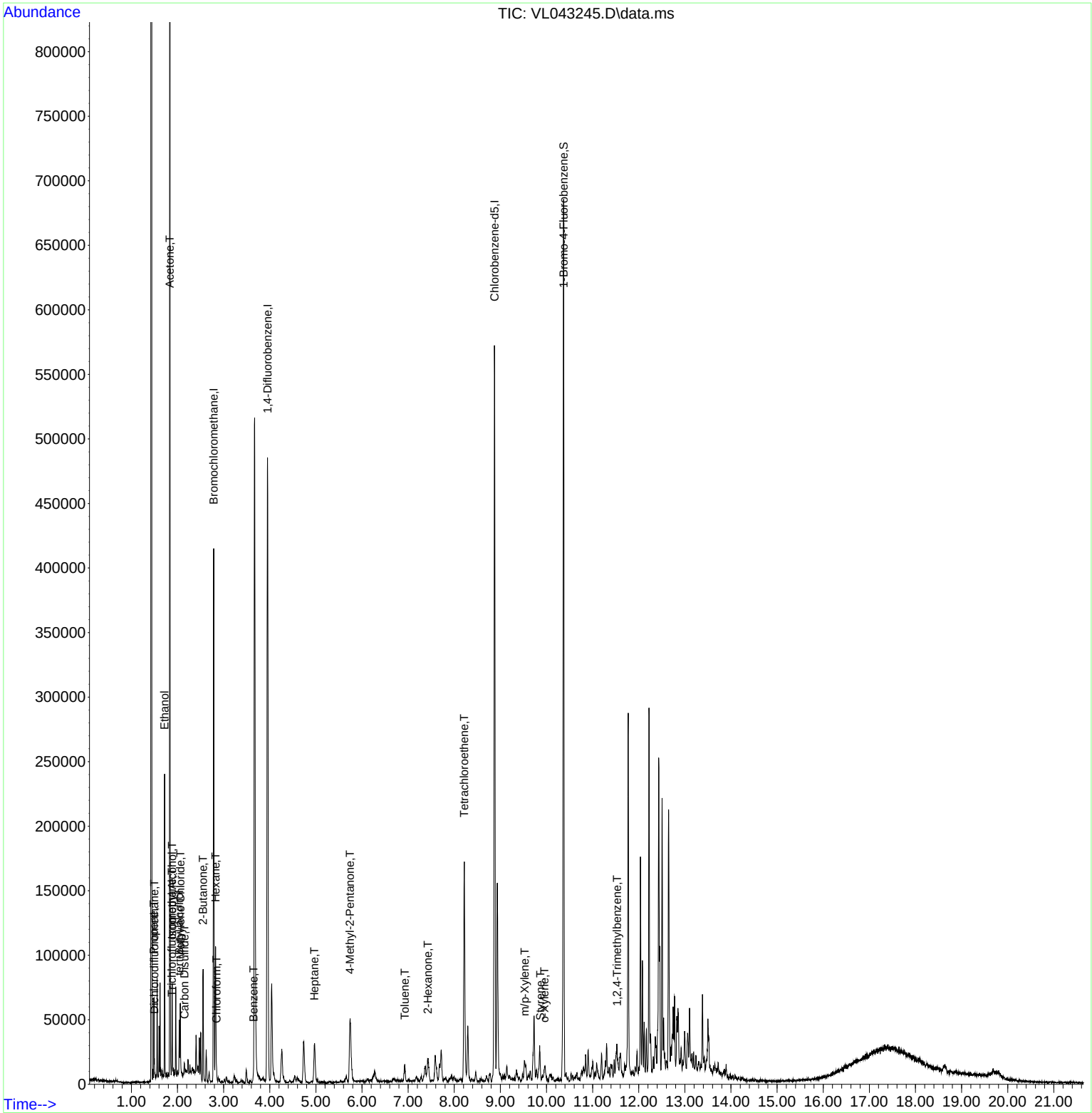
(#) = qualifier out of range (m) = manual integration (+) = signals summed

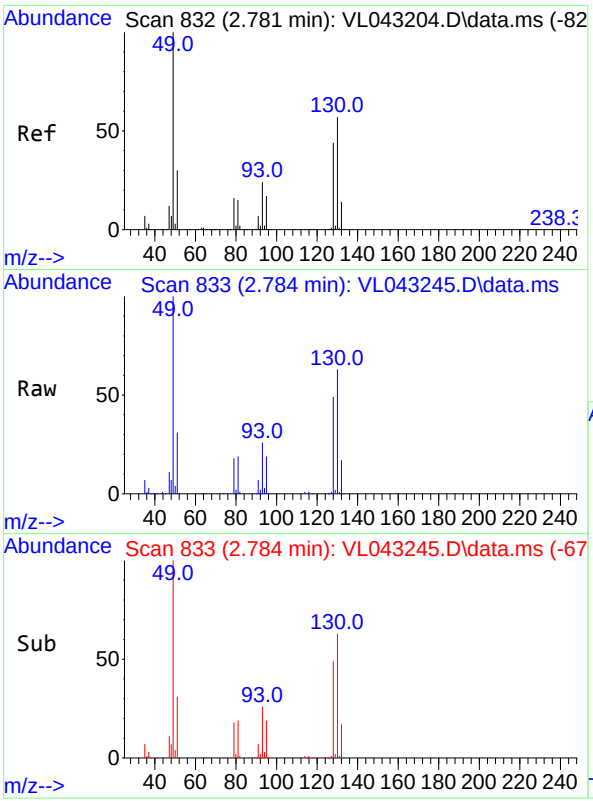
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043245.D
Acq On : 19 Nov 2025 18:21
Operator : SY/MD
Sample : Q3626-11 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:08:38 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 :
15-SG-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

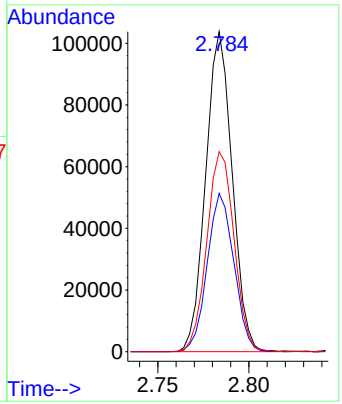




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 49 Resp: 10503

Ion	Ratio	Lower	Upper
49	100		
128	49.9	23.0	69.0
130	64.6	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

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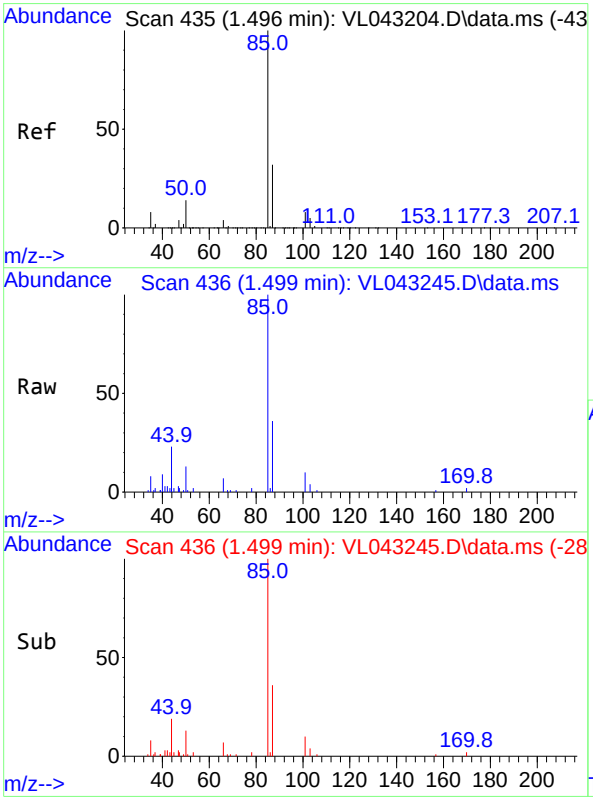
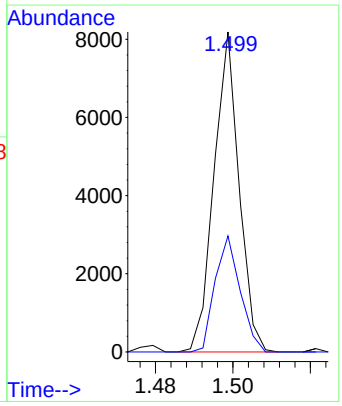
Supervised By :Mahesh Dadoda 11/21/2025

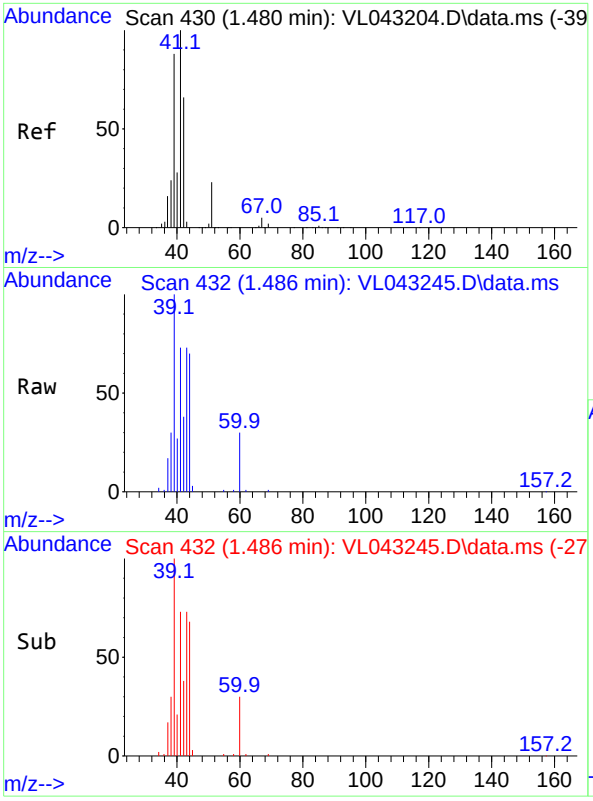


#2
Dichlorodifluoromethane
Concen: 0.249 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 85 Resp: 3683

Ion	Ratio	Lower	Upper
85	100		
87	36.2	25.4	38.2

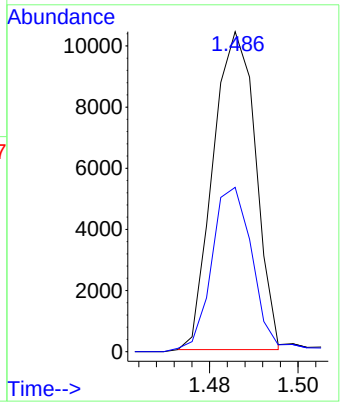




#9
Propene
Concen: 1.121 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 41 Resp: 693

Ion	Ratio	Lower	Upper
41	100		
42	54.5	3.7	5.5#



Instrument :
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15-SG-1

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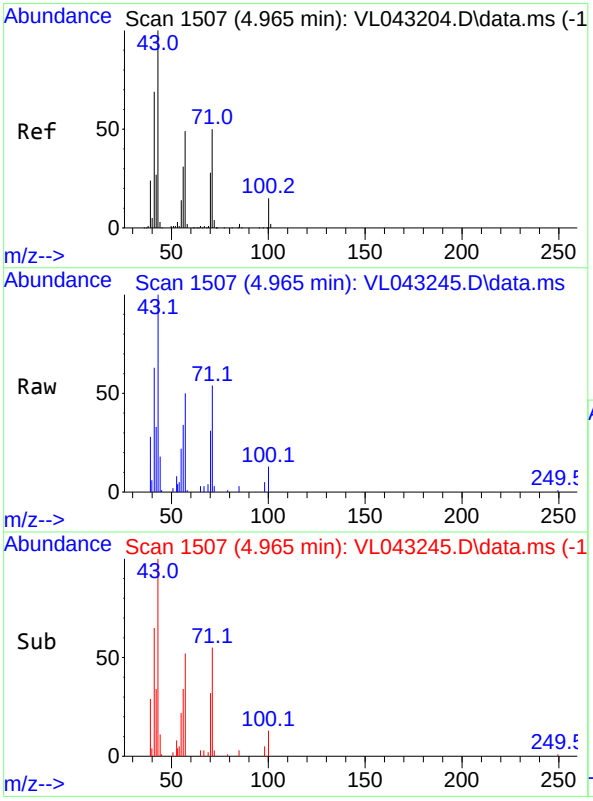
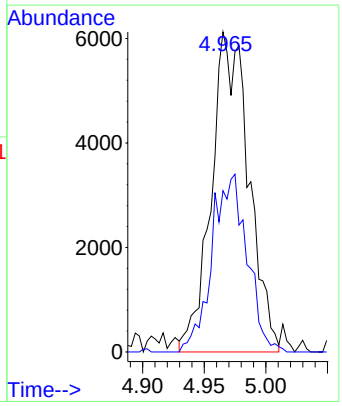
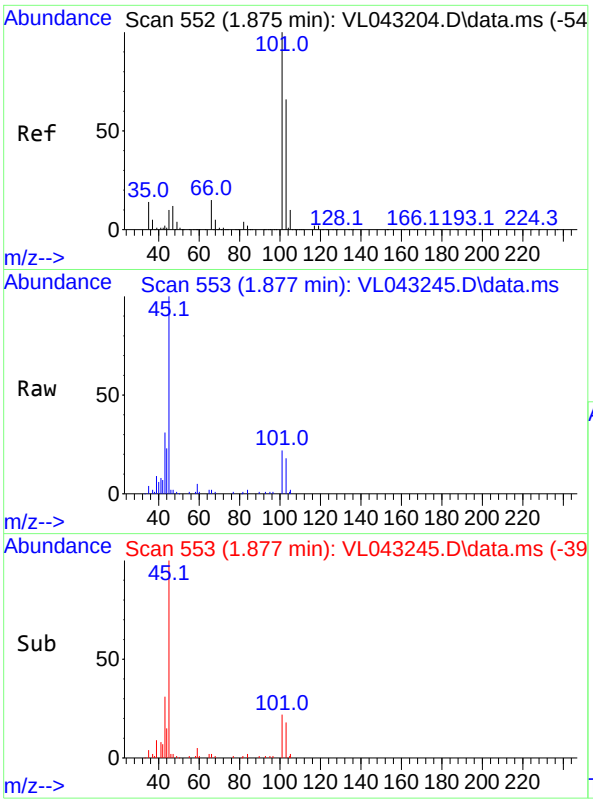


#10
Heptane
Concen: 0.704 ppbv m
RT: 4.965 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 43 Resp: 12970

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#

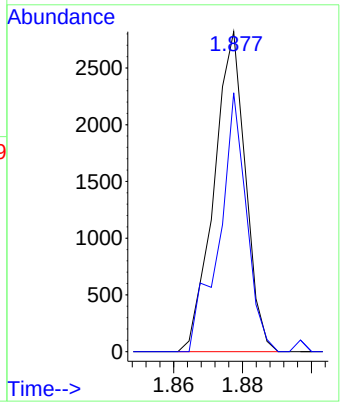




#11
Trichlorofluoromethane
Concen: 0.125 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion:101 Resp: 179

Ion	Ratio	Lower	Upper
101	100		
103	80.9	52.6	79.0#



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

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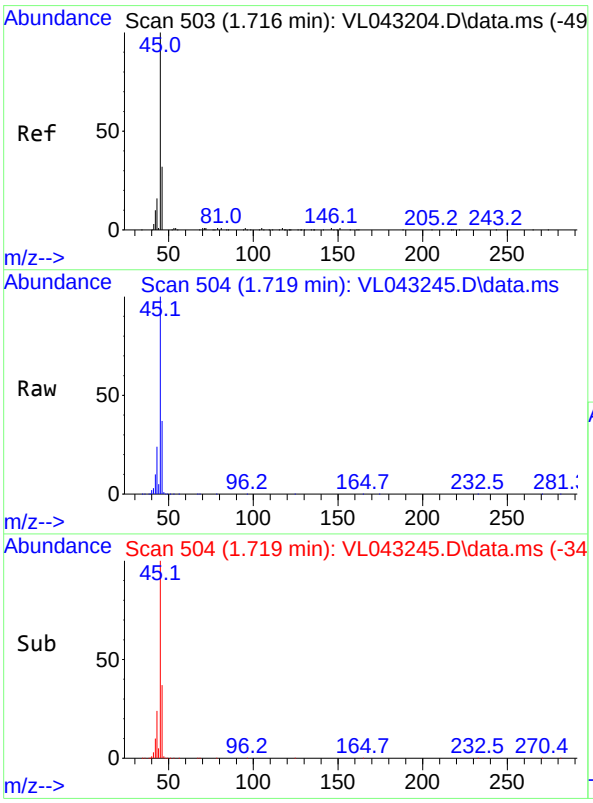
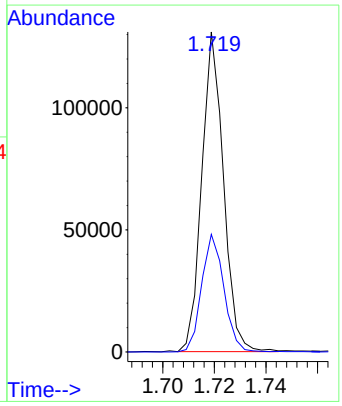
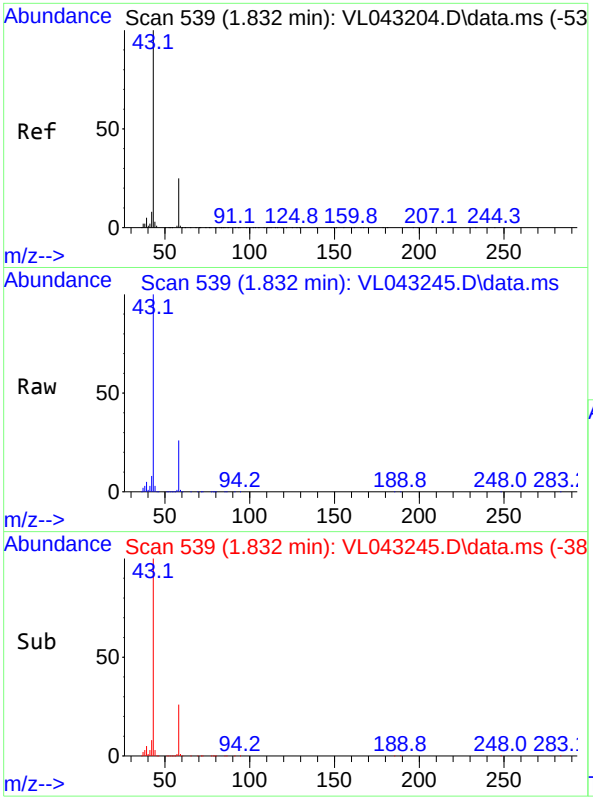


#13
Ethanol
Concen: 35.162 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 45 Resp: 76497

Ion	Ratio	Lower	Upper
45	100		
46	38.0	15.0	59.8

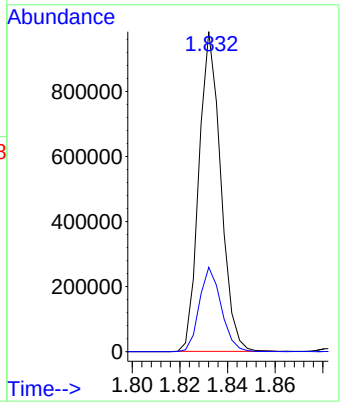




#15
Acetone
Concen: 42.948 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 43 Resp: 62674

Ion	Ratio	Lower	Upper
43	100		
58	26.6	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

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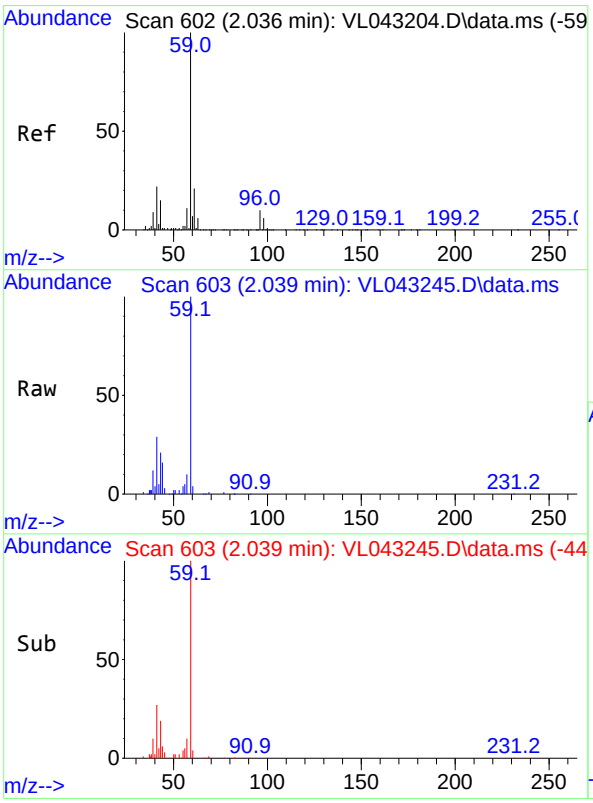
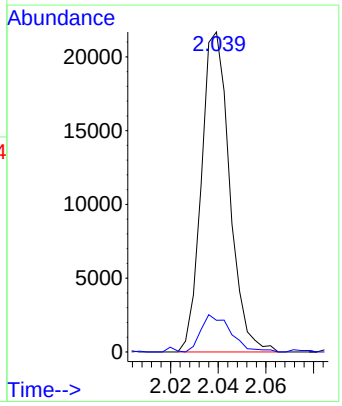
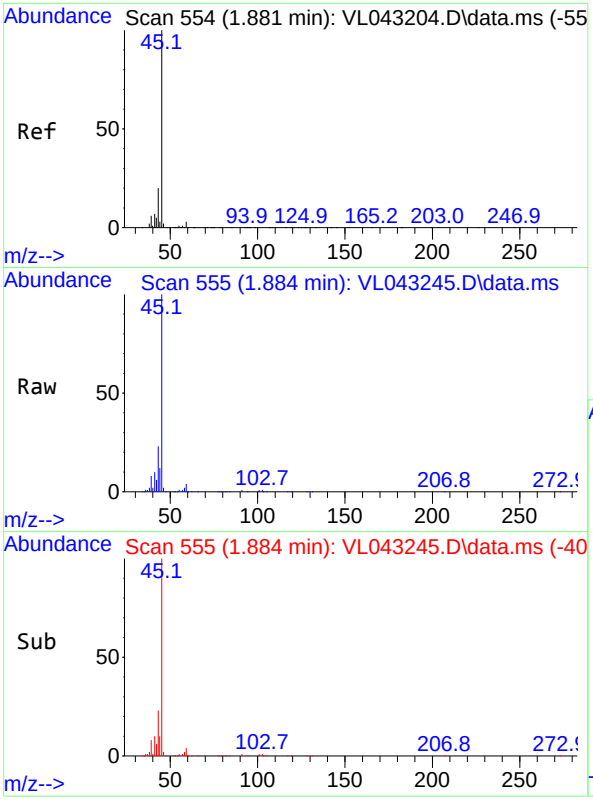


#17
tert-Butyl alcohol
Concen: 0.932 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 59 Resp: 17850

Ion	Ratio	Lower	Upper
59	100		
57	13.1	9.0	13.4

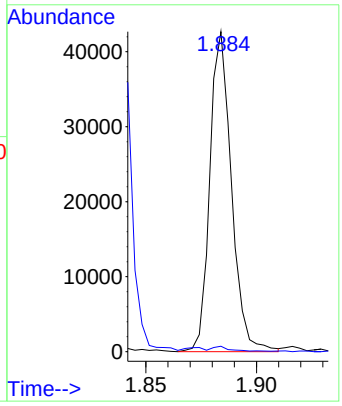




#19
Isopropyl Alcohol
Concen: 3.517 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 45 Resp: 2900

Ion	Ratio	Lower	Upper
45	100		
58	0.0	31.3	46.9#



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

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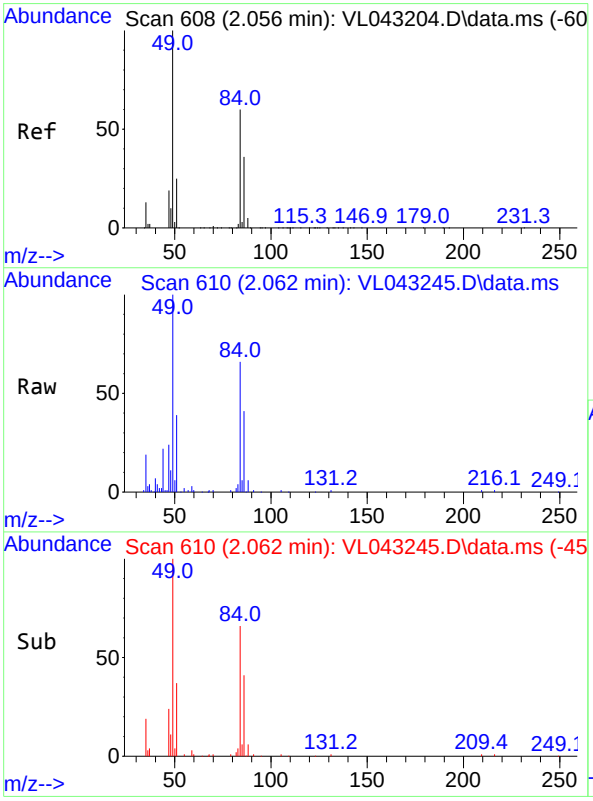
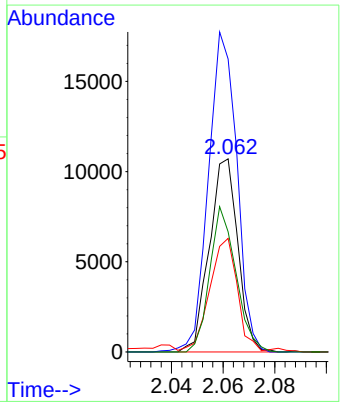
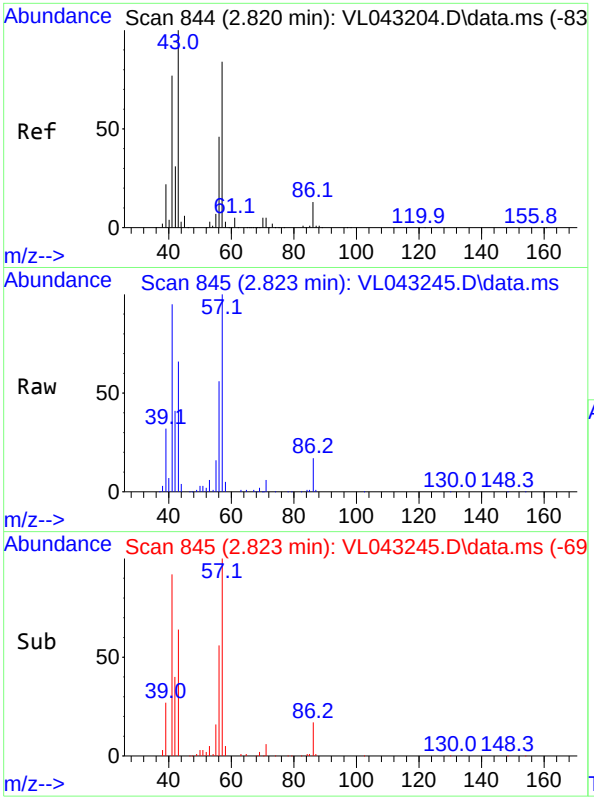


#20
Methylene Chloride
Concen: 1.222 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 84 Resp: 8219

Ion	Ratio	Lower	Upper
84	100		
49	151.7	132.9	199.3
51	58.0	34.8	52.2#
86	62.2	48.2	72.2

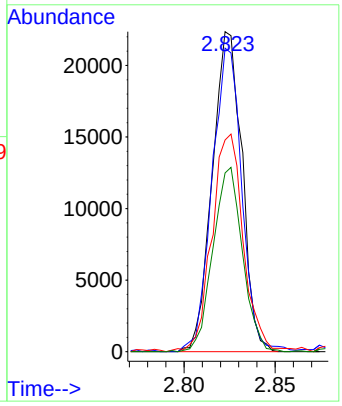




#26
Hexane
Concen: 1.828 ppbv
RT: 2.823 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 57 Resp: 2523

Ion	Ratio	Lower	Upper
57	100		
41	95.7	74.6	111.8
43	70.9	179.0	268.4#
56	57.6	42.3	63.5



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

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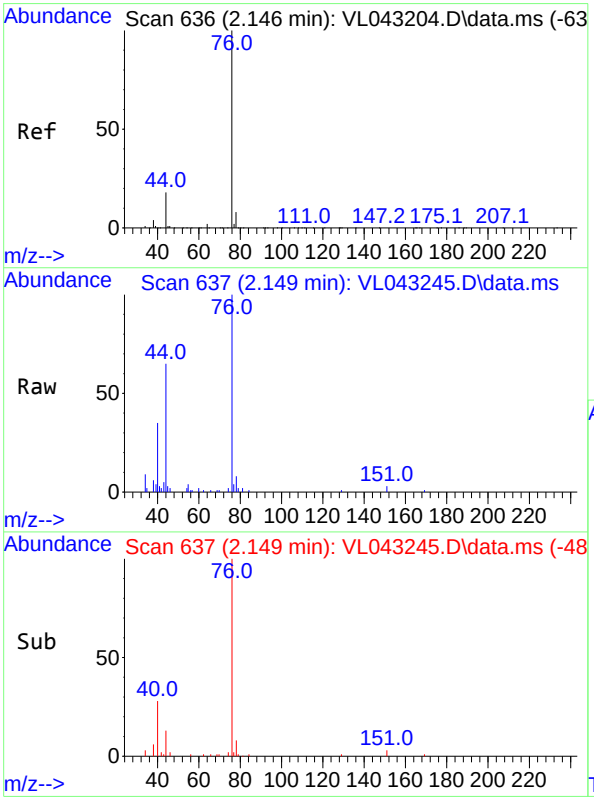
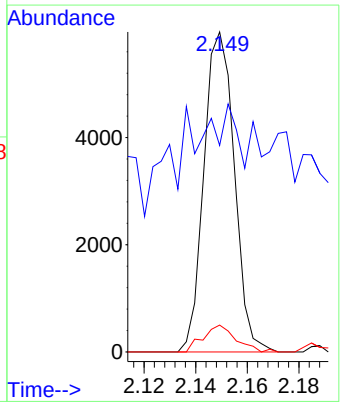
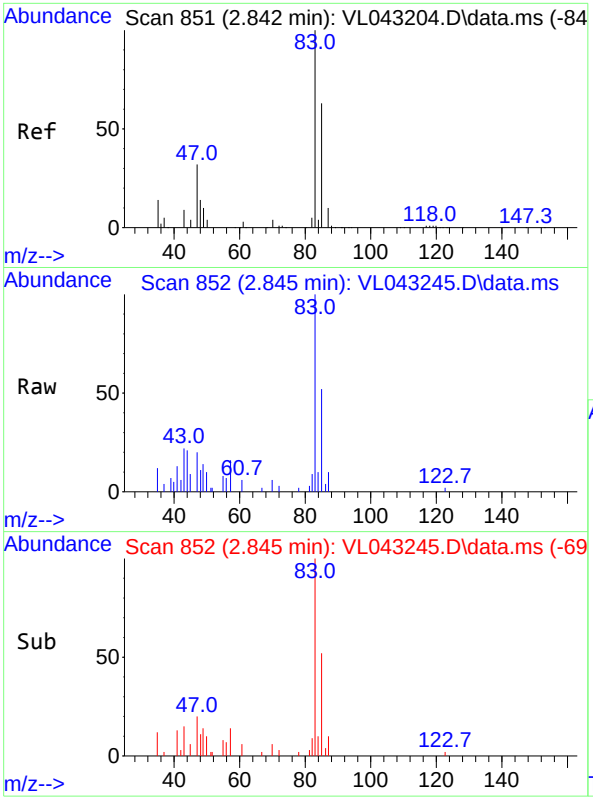


#27
Carbon Disulfide
Concen: 0.347 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 76 Resp: 4895

Ion	Ratio	Lower	Upper
76	100		
44	123.2	16.1	24.1#
78	9.1	9.6	14.4#





#29
Chloroform
Concen: 0.165 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 83 Resp: 323

Ion	Ratio	Lower	Upper
83	100		
85	48.9	50.5	75.7

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

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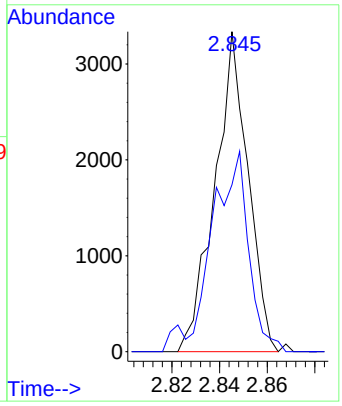
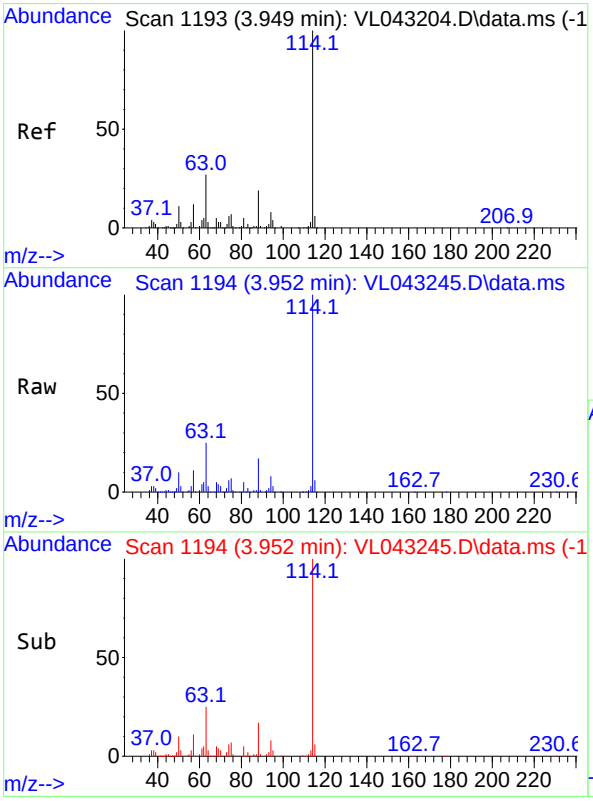
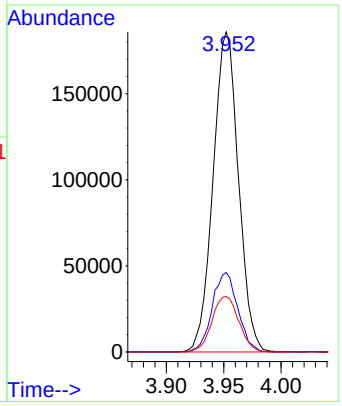


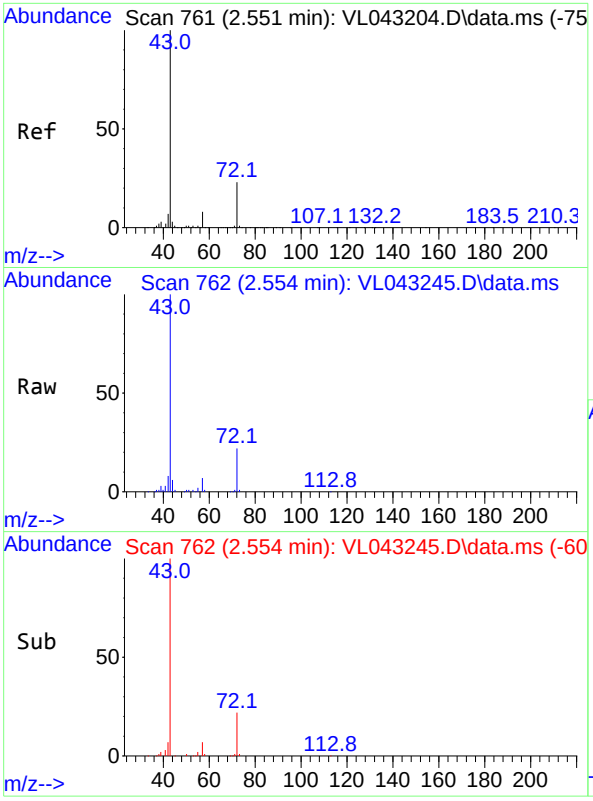


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion:114 Resp: 285629

Ion	Ratio	Lower	Upper
114	100		
63	25.1	21.0	31.6
88	18.3	14.9	22.3

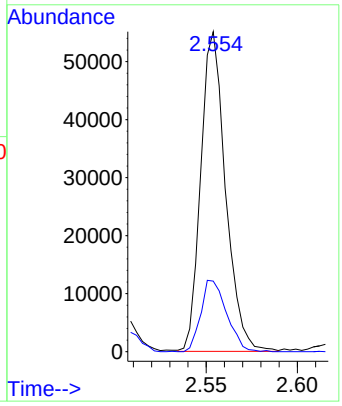




#34
2-Butanone
Concen: 2.590 ppbv
RT: 2.554 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 43 Resp: 5222

Ion	Ratio	Lower	Upper
43	100		
72	23.2	18.1	27.1



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

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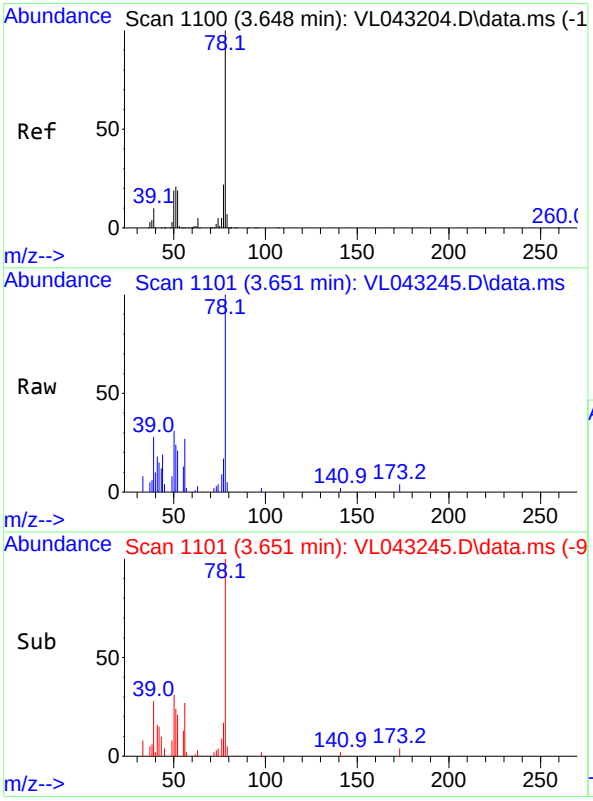
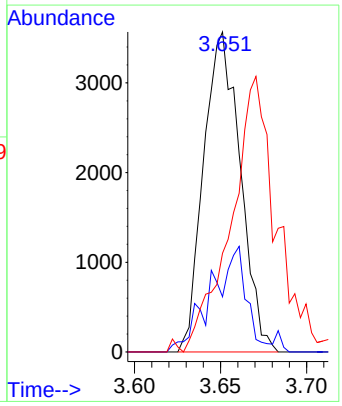
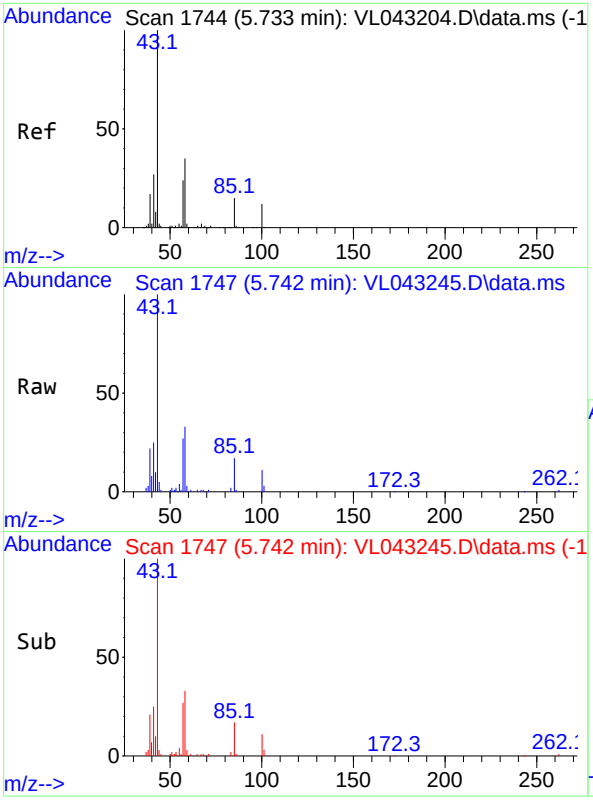


#36
Benzene
Concen: 0.193 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 78 Resp: 5287

Ion	Ratio	Lower	Upper
78	100		
77	14.1	17.5	26.3#
50	29.3	15.5	23.3#

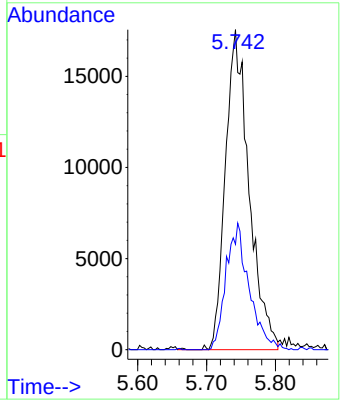




#50
4-Methyl-2-Pentanone
Concen: 1.471 ppbv m
RT: 5.742 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 43 Resp: 4176

Ion	Ratio	Lower	Upper
43	100		
58	38.5	28.4	42.6



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

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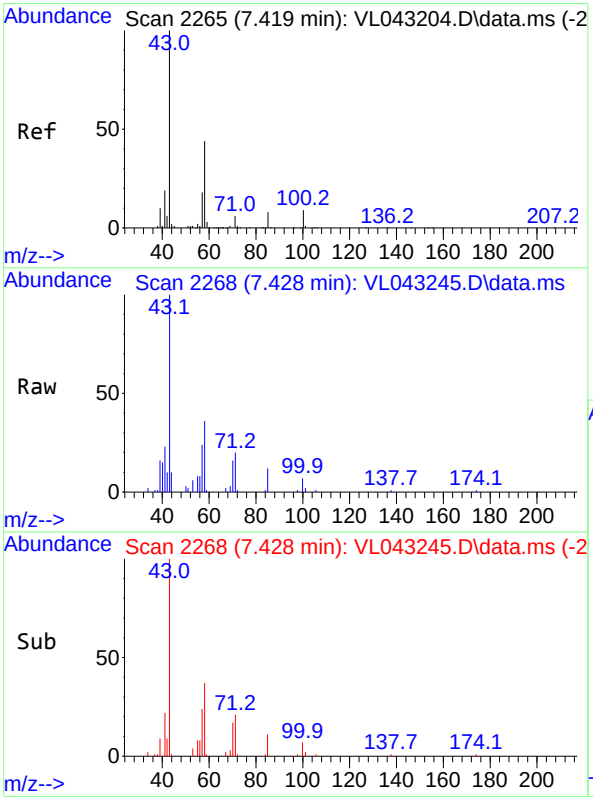
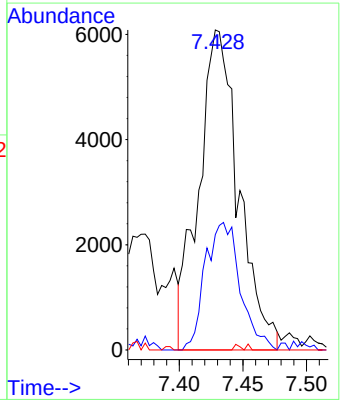
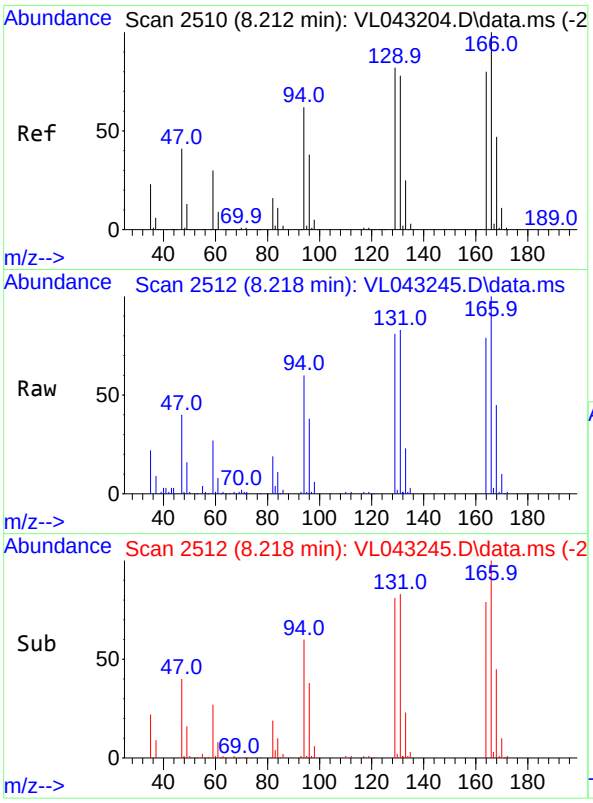


#51
2-Hexanone
Concen: 0.602 ppbv m
RT: 7.428 min Scan# 2268
Delta R.T. 0.009 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 43 Resp: 13282

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

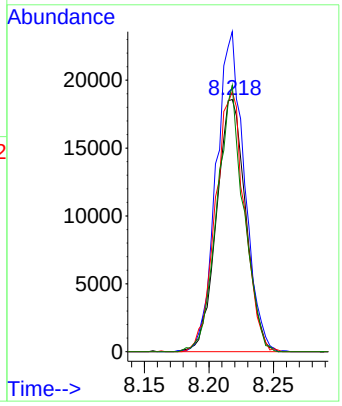




#52
Tetrachloroethene
Concen: 2.863 ppbv
RT: 8.218 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion:164 Resp: 2912

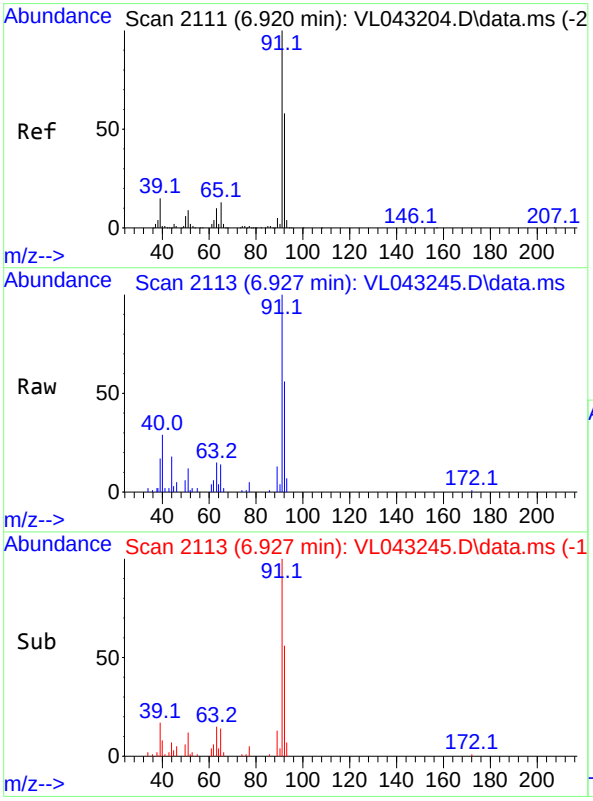
Ion	Ratio	Lower	Upper
164	100		
166	126.9	99.4	149.2
129	103.1	81.8	122.8
131	105.7	77.4	116.2



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Manual Integrations
APPROVED

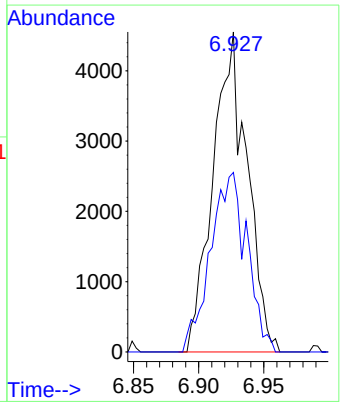
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

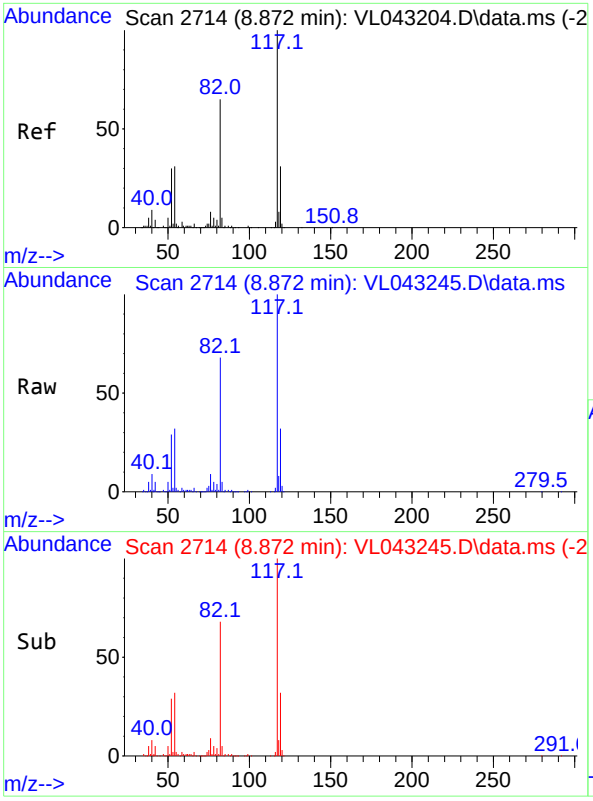


#53
Toluene
Concen: 0.256 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 91 Resp: 8300

Ion	Ratio	Lower	Upper
91	100		
92	59.9	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: VL043245.D
Acq: 19 Nov 2025 18:21

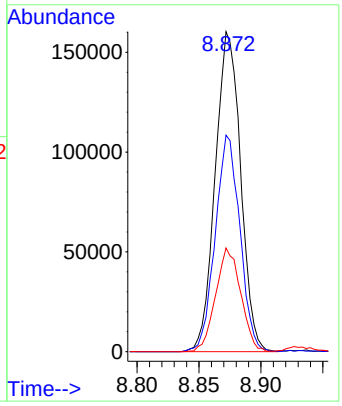
Tgt Ion:117 Resp: 22903

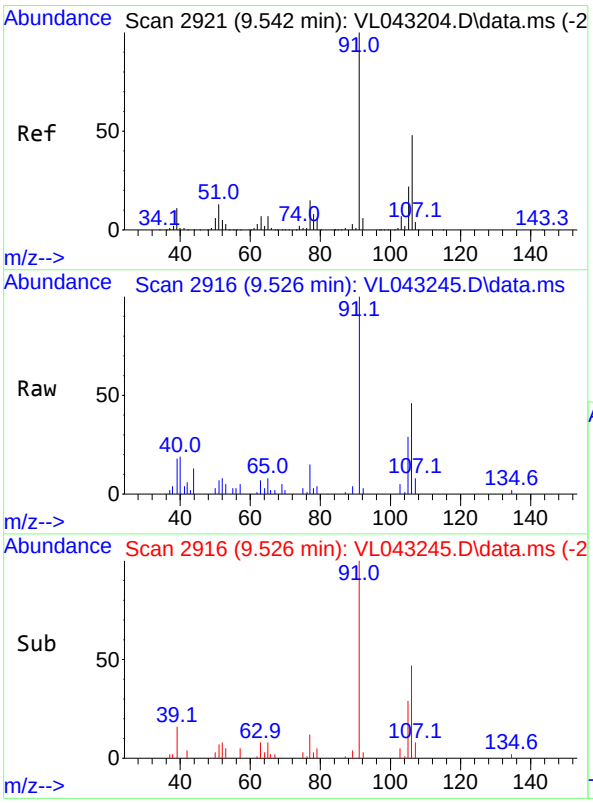
Ion	Ratio	Lower	Upper
117	100		
82	66.1	56.1	84.1
119	32.1	25.0	37.6

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

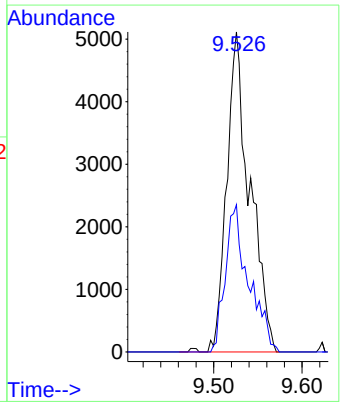


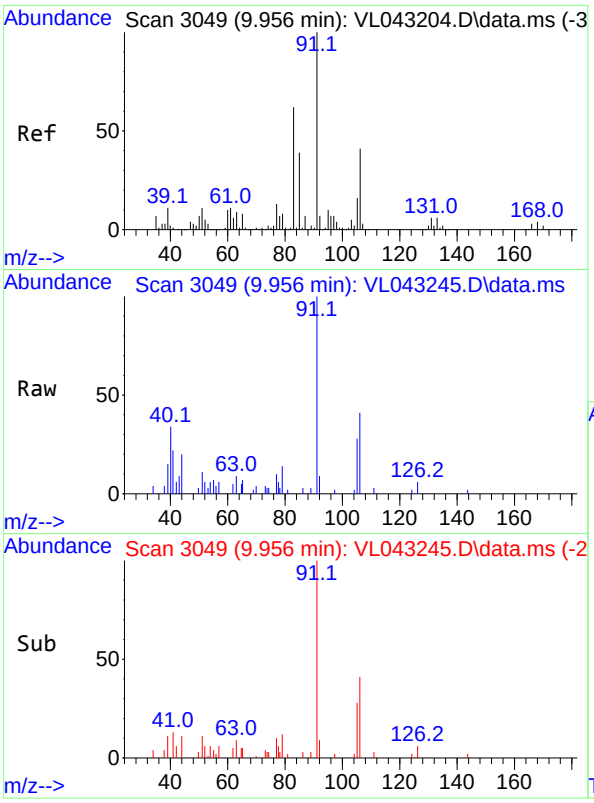


#59
m/p-Xylene
Concen: 0.263 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.017 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 91 Resp: 9279

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

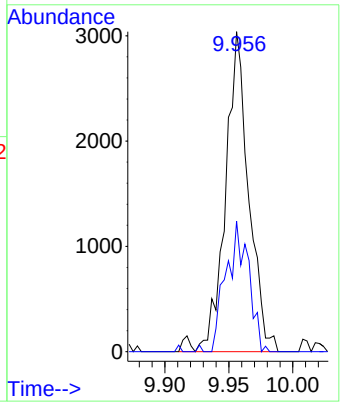




#60
o-Xylene
Concen: 0.110 ppbv m
RT: 9.956 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 91 Resp: 388

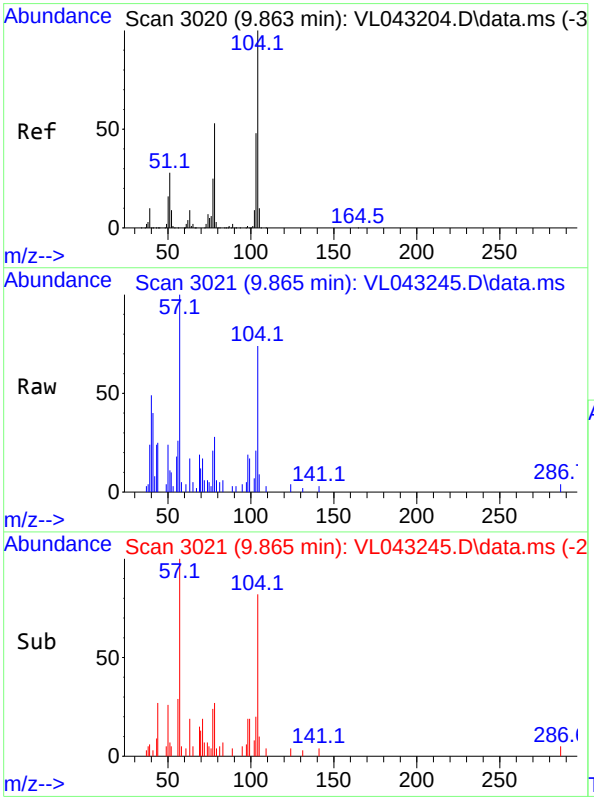
Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.9	62.8#



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Manual Integrations
APPROVED

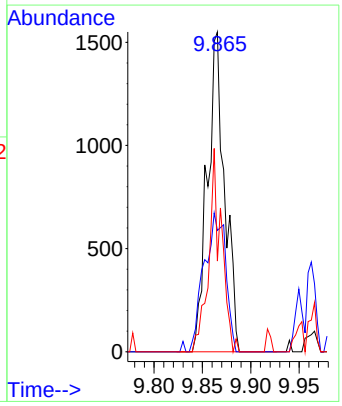
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

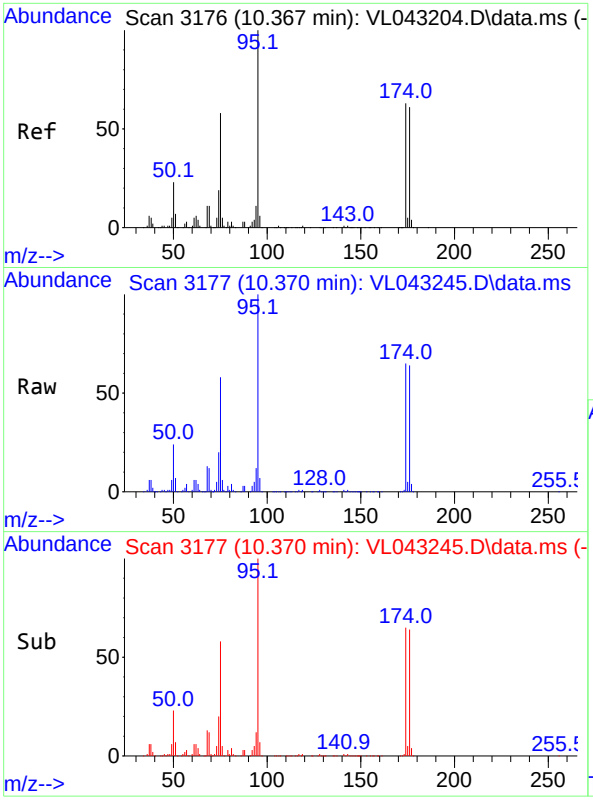


#61
Styrene
Concen: 0.124 ppbv m
RT: 9.865 min Scan# 3021
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion:104 Resp: 1911

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

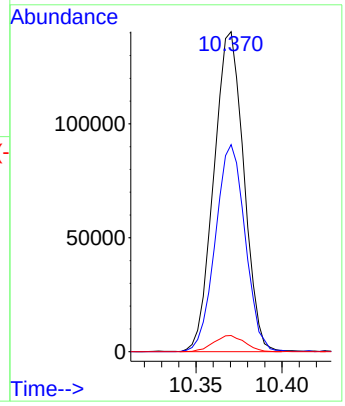




#68
1-Bromo-4-Fluorobenzene
Concen: 10.114 ppbv
RT: 10.370 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 95 Resp: 16978

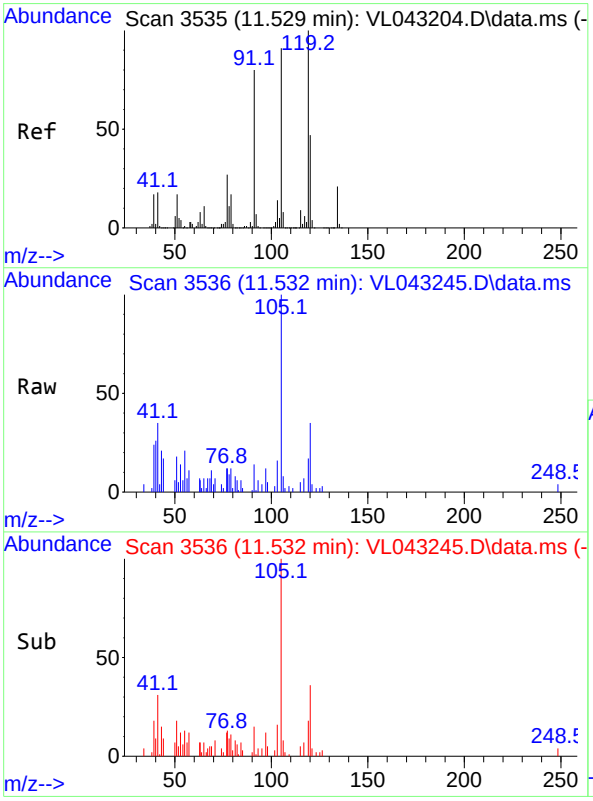
Ion	Ratio	Lower	Upper
95	100		
174	64.7	50.2	75.2
175	5.3	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Manual Integrations
APPROVED

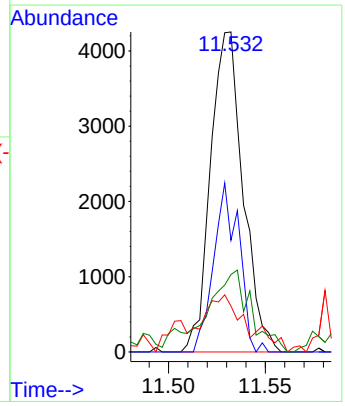
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.126 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion:105 Resp: 4969

Ion	Ratio	Lower	Upper
105	100		
120	34.9	41.7	62.5#
91	9.9	70.0	105.0#
77	21.8	23.8	35.8#



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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	15-SG-1DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-11DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	5.44	UD	10	5.44	24.7	11/19/25 23:12	VL111925
74-87-3	Chloromethane	0.98	2.02	UD	10	2.02	10.3	11/19/25 23:12	VL111925
75-01-4	Vinyl Chloride	0.25	0.64	UD	10	0.64	0.77	11/19/25 23:12	VL111925
74-83-9	Bromomethane	0.77	2.99	UD	10	2.99	19.4	11/19/25 23:12	VL111925
75-00-3	Chloroethane	1.50	3.96	UD	10	3.96	13.2	11/19/25 23:12	VL111925
109-99-9	Tetrahydrofuran	0.80	2.36	UD	10	2.36	14.8	11/19/25 23:12	VL111925
75-69-4	Trichlorofluoromethane	1.70	9.55	UD	10	9.55	28.1	11/19/25 23:12	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	10.7	UD	10	10.7	38.3	11/19/25 23:12	VL111925
76-14-2	Dichlorotetrafluoroethane	1.50	10.5	UD	10	10.5	35.0	11/19/25 23:12	VL111925
75-65-0	tert-Butyl alcohol	2.00	6.06	JD	10	4.85	15.2	11/19/25 23:12	VL111925
142-82-5	Heptane	1.70	6.97	UD	10	6.97	20.5	11/19/25 23:12	VL111925
75-35-4	1,1-Dichloroethene	1.50	5.95	UD	10	5.95	19.8	11/19/25 23:12	VL111925
67-64-1	Acetone	87.3	207	D	10	4.28	11.9	11/19/25 23:12	VL111925
75-15-0	Carbon Disulfide	0.80	2.49	UD	10	2.49	15.6	11/19/25 23:12	VL111925
1634-04-4	Methyl tert-Butyl Ether	2.30	8.29	UD	10	8.29	18.0	11/19/25 23:12	VL111925
75-09-2	Methylene Chloride	2.60	9.03	JD	10	7.99	17.4	11/19/25 23:12	VL111925
156-60-5	trans-1,2-Dichloroethene	1.20	4.76	UD	10	4.76	19.8	11/19/25 23:12	VL111925
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	10	5.26	20.2	11/19/25 23:12	VL111925
110-82-7	Cyclohexane	2.20	7.57	UD	10	7.57	17.2	11/19/25 23:12	VL111925
78-93-3	2-Butanone	4.70	13.9	JD	10	1.65	14.8	11/19/25 23:12	VL111925
56-23-5	Carbon Tetrachloride	0.25	1.57	UD	10	1.57	1.89	11/19/25 23:12	VL111925
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	UD	10	3.93	19.8	11/19/25 23:12	VL111925
67-66-3	Chloroform	0.96	4.69	UD	10	4.69	24.4	11/19/25 23:12	VL111925
71-55-6	1,1,1-Trichloroethane	0.16	0.87	UD	10	0.87	1.64	11/19/25 23:12	VL111925
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	UD	10	6.54	23.4	11/19/25 23:12	VL111925
71-43-2	Benzene	0.79	2.52	UD	10	2.52	16.0	11/19/25 23:12	VL111925
107-06-2	1,2-Dichloroethane	0.93	3.76	UD	10	3.76	20.2	11/19/25 23:12	VL111925
79-01-6	Trichloroethene	0.24	1.29	UD	10	1.29	1.61	11/19/25 23:12	VL111925
78-87-5	1,2-Dichloropropane	1.30	6.01	UD	10	6.01	23.1	11/19/25 23:12	VL111925
75-27-4	Bromodichloromethane	0.63	4.22	UD	10	4.22	33.5	11/19/25 23:12	VL111925
108-10-1	4-Methyl-2-Pentanone	2.40	9.84	JD	10	3.98	20.5	11/19/25 23:12	VL111925
108-88-3	Toluene	1.60	6.03	UD	10	6.03	18.8	11/19/25 23:12	VL111925
10061-02-6	t-1,3-Dichloropropene	1.50	6.81	UD	10	6.81	22.7	11/19/25 23:12	VL111925
10061-01-5	cis-1,3-Dichloropropene	1.10	4.99	UD	10	4.99	22.7	11/19/25 23:12	VL111925
79-00-5	1,1,2-Trichloroethane	0.81	4.42	UD	10	4.42	27.3	11/19/25 23:12	VL111925
124-48-1	Dibromochloromethane	0.85	7.24	UD	10	7.24	42.6	11/19/25 23:12	VL111925
106-93-4	1,2-Dibromoethane	0.85	6.53	UD	10	6.53	7.69	11/19/25 23:12	VL111925
127-18-4	Tetrachloroethene	5.10	34.6	D	10	1.02	2.03	11/19/25 23:12	VL111925
108-90-7	Chlorobenzene	0.77	3.55	UD	10	3.55	23.0	11/19/25 23:12	VL111925
100-41-4	Ethyl Benzene	1.90	8.25	UD	10	8.25	21.7	11/19/25 23:12	VL111925
179601-23-1	m/p-Xylene	4.10	17.8	UD	10	17.8	43.4	11/19/25 23:12	VL111925
95-47-6	o-Xylene	2.10	9.12	UD	10	9.12	21.7	11/19/25 23:12	VL111925
100-42-5	Styrene	1.60	6.81	UD	10	6.81	21.3	11/19/25 23:12	VL111925
75-25-2	Bromoform	0.48	4.96	UD	10	4.96	51.7	11/19/25 23:12	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.18	1.24	UD	10	1.24	2.06	11/19/25 23:12	VL111925
95-49-8	2-Chlorotoluene	1.70	8.80	UD	10	8.80	25.9	11/19/25 23:12	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	15-SG-1DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-11DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	11/19/25 23:12	VL111925
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	11/19/25 23:12	VL111925
541-73-1	1,3-Dichlorobenzene	0.54	3.25	UD	10	3.25	30.1	11/19/25 23:12	VL111925
106-46-7	1,4-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1	11/19/25 23:12	VL111925
95-50-1	1,2-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1	11/19/25 23:12	VL111925
120-82-1	1,2,4-Trichlorobenzene	2.10	15.6	UD	10	15.6	37.1	11/19/25 23:12	VL111925
87-68-3	Hexachloro-1,3-Butadiene	1.30	13.9	UD	10	13.9	53.3	11/19/25 23:12	VL111925
106-99-0	1,3-Butadiene	0.51	1.13	UD	10	1.13	11.1	11/19/25 23:12	VL111925
91-20-3	Naphthalene	0.13	0.68	UD	10	0.68	5.24	11/19/25 23:12	VL111925
622-96-8	4-Ethyltoluene	2.10	10.3	UD	10	10.3	24.6	11/19/25 23:12	VL111925
110-54-3	Hexane	3.20	11.3	JD	10	5.64	17.6	11/19/25 23:12	VL111925
107-05-1	Allyl Chloride	1.10	3.44	UD	10	3.44	15.7	11/19/25 23:12	VL111925
123-91-1	1,4-Dioxane	2.20	7.93	UD	10	7.93	18.0	11/19/25 23:12	VL111925
80-62-6	Methyl Methacrylate	1.40	5.73	UD	10	5.73	20.5	11/19/25 23:12	VL111925
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	97600							
540-36-3	1,4-Difluorobenzene	261000							
3114-55-4	Chlorobenzene-d5	199000							

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\VL111925\
Data File : VL043253.D
Acq On : 19 Nov 2025 23:12
Operator : SY/MD
Sample : Q3626-11DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:13:05 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 :
15-SG-1DL

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	97568	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	261435	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	198573	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	142507	9.791	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.900%			
Target Compounds						Qvalue
9) Propene	1.486	41	1412	0.246	ppbv #	1
13) Ethanol	1.719	45	14283	7.068	ppbv	99
15) Acetone	1.829	43	118278	8.725	ppbv	99
17) tert-Butyl alcohol	2.039	59	3488	0.196	ppbv	95
19) Isopropyl Alcohol	1.881	45	5404	0.706	ppbv #	1
20) Methylene Chloride	2.059	84	4098	0.262	ppbv #	77
26) Hexane	2.819	57	4125	0.322	ppbv #	43
34) 2-Butanone	2.551	43	8708	0.472	ppbv #	90
50) 4-Methyl-2-Pentanone	5.736	43	6238m	0.240	ppbv	
52) Tetrachloroethene	8.212	164	4721m	0.507	ppbv	

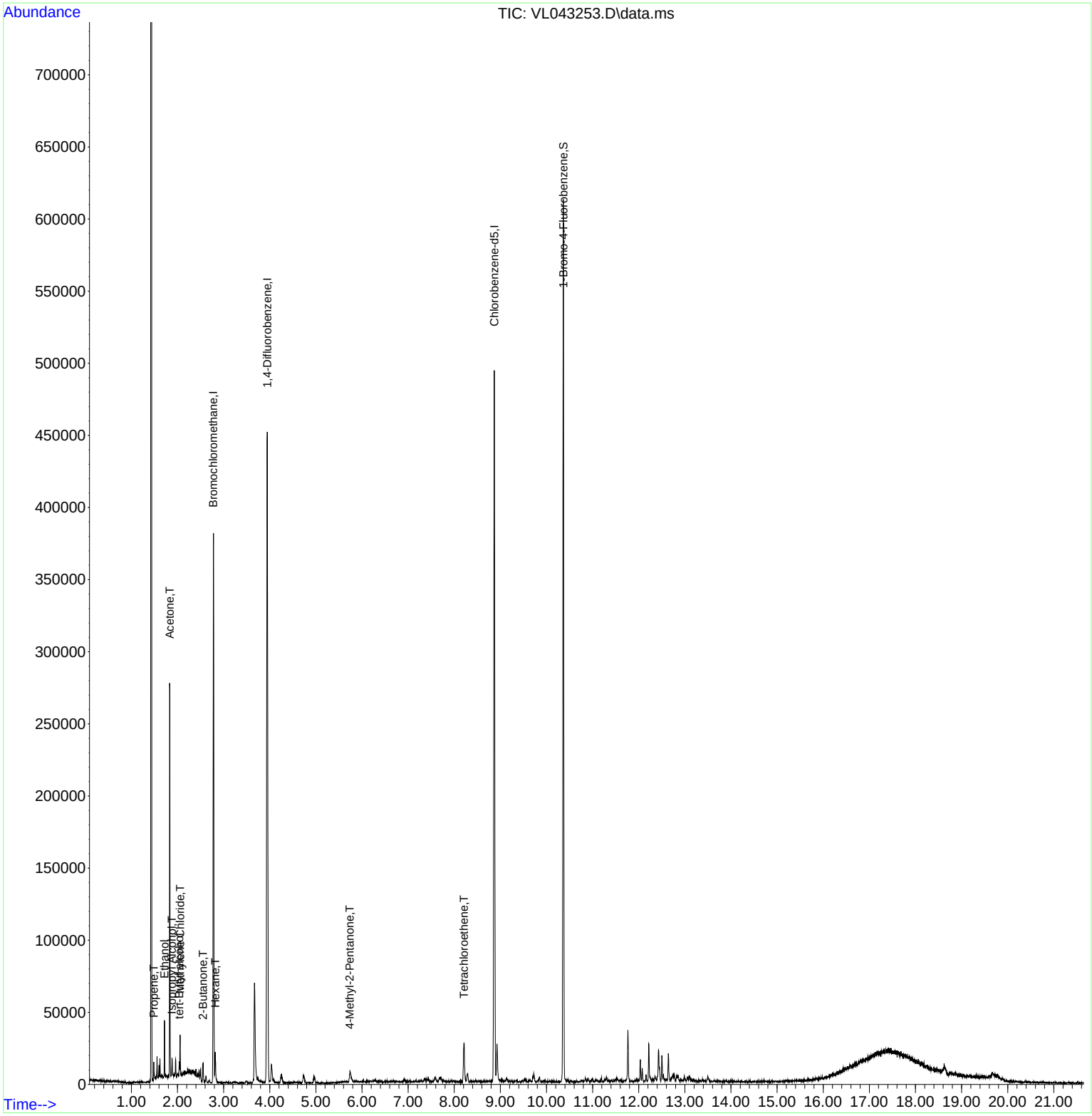
(#) = qualifier out of range (m) = manual integration (+) = signals summed

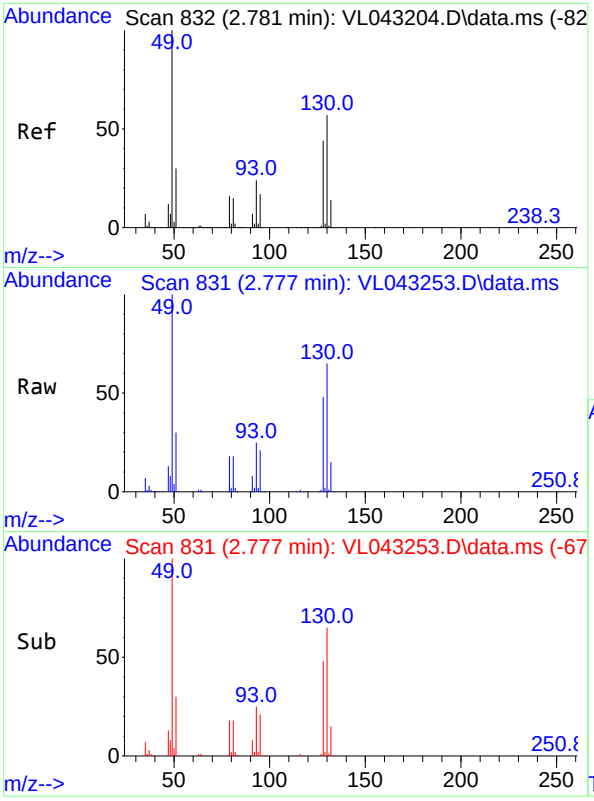
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043253.D
Acq On : 19 Nov 2025 23:12
Operator : SY/MD
Sample : Q3626-11DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:13:05 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 :
15-SG-1DL

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

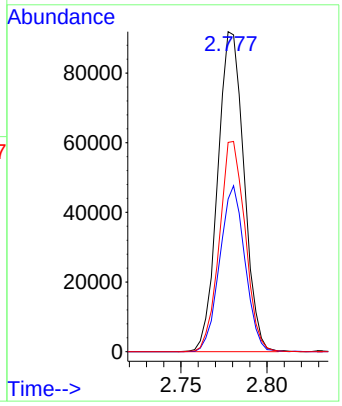




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 49 Resp: 9756

Ion	Ratio	Lower	Upper
49	100		
128	49.8	23.0	69.0
130	64.6	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Manual Integrations
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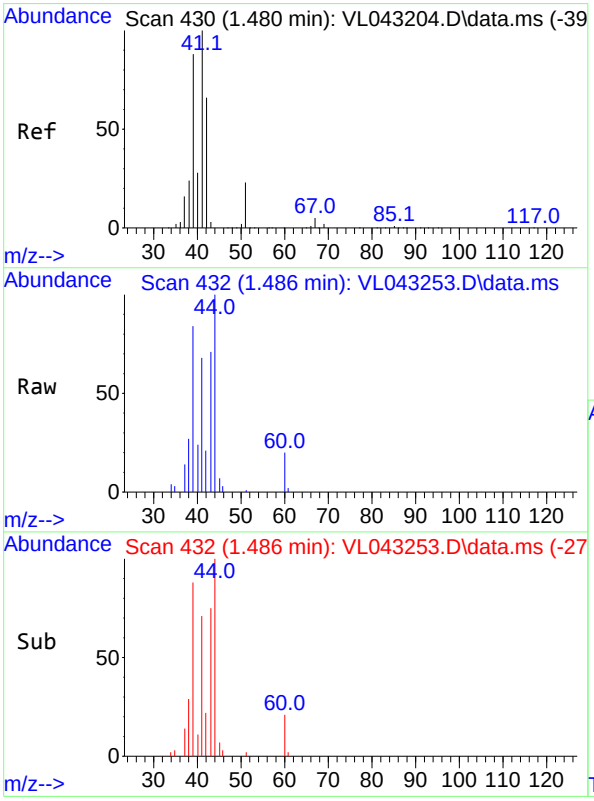
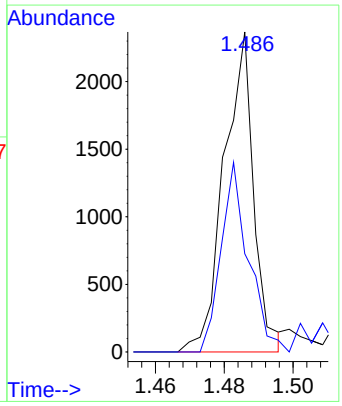
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

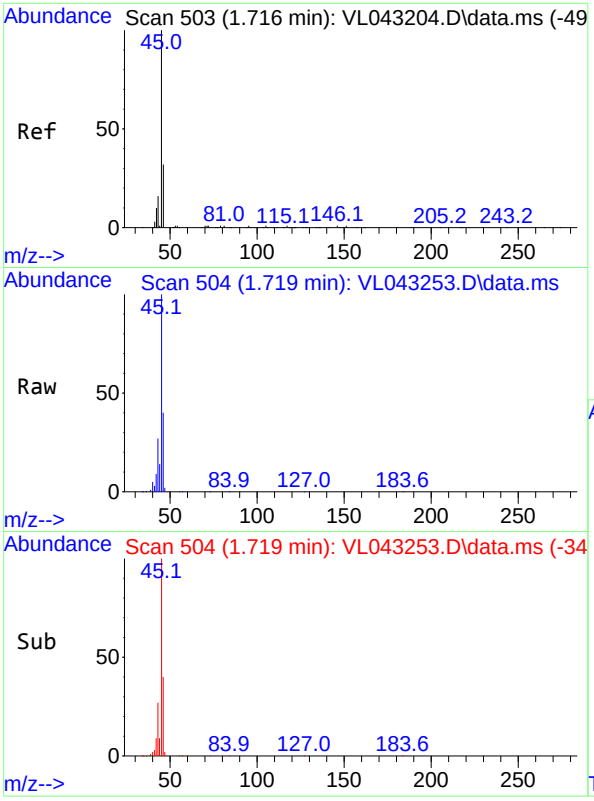


#9
Propene
Concen: 0.246 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 41 Resp: 1412

Ion	Ratio	Lower	Upper
41	100		
42	70.8	3.7	5.5#

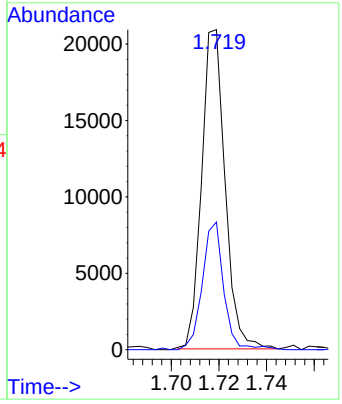




#13
Ethanol
Concen: 7.068 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 45 Resp: 1428

Ion	Ratio	Lower	Upper
45	100		
46	36.6	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/21/2025
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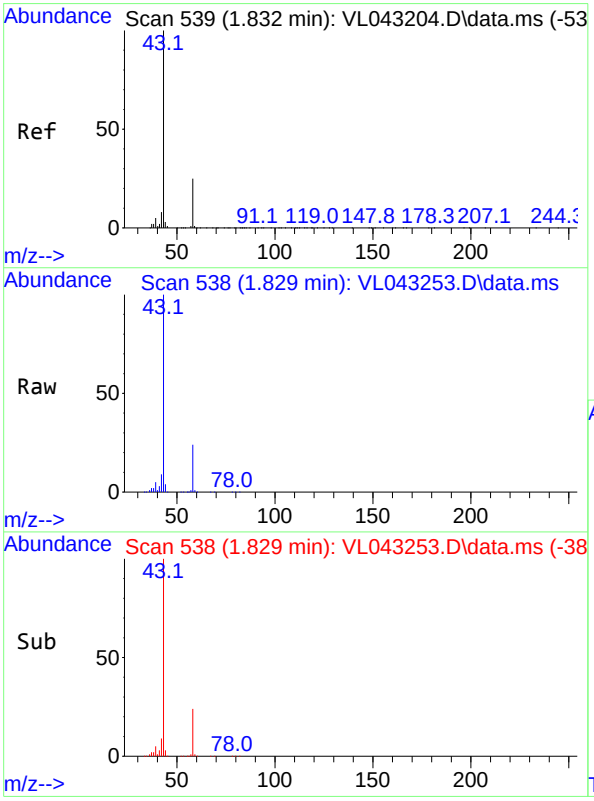
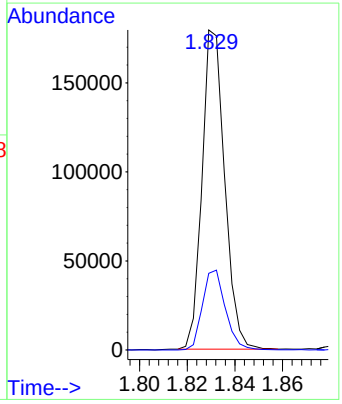
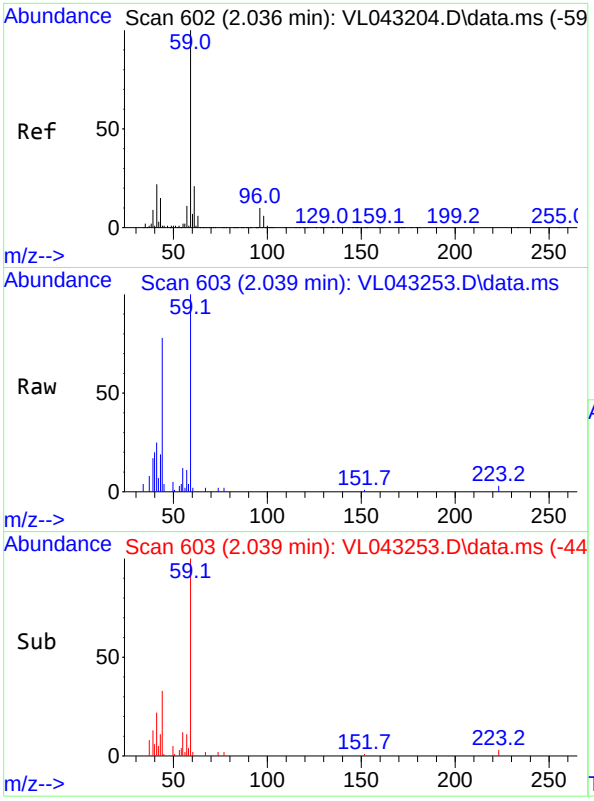


#15
Acetone
Concen: 8.725 ppbv
RT: 1.829 min Scan# 538
Delta R.T. -0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 43 Resp: 118278

Ion	Ratio	Lower	Upper
43	100		
58	25.5	20.7	31.1

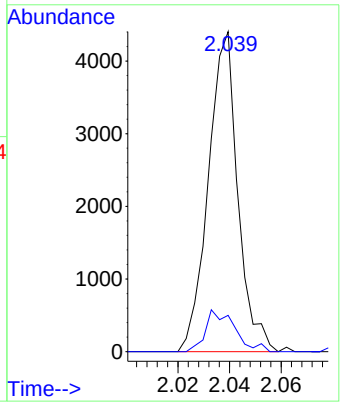




#17
tert-Butyl alcohol
Concen: 0.196 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 59 Resp: 348

Ion	Ratio	Lower	Upper
59	100		
57	13.0	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Manual Integrations
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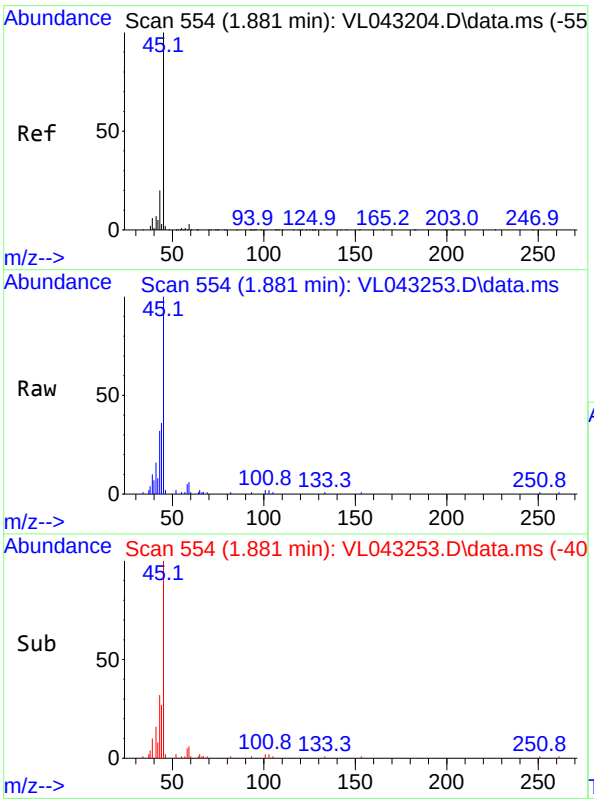
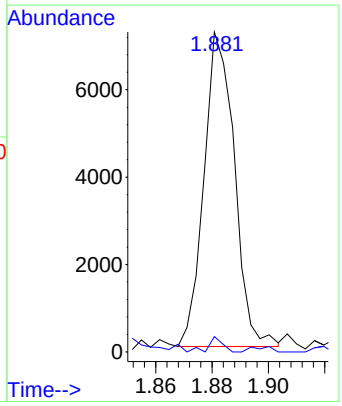
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

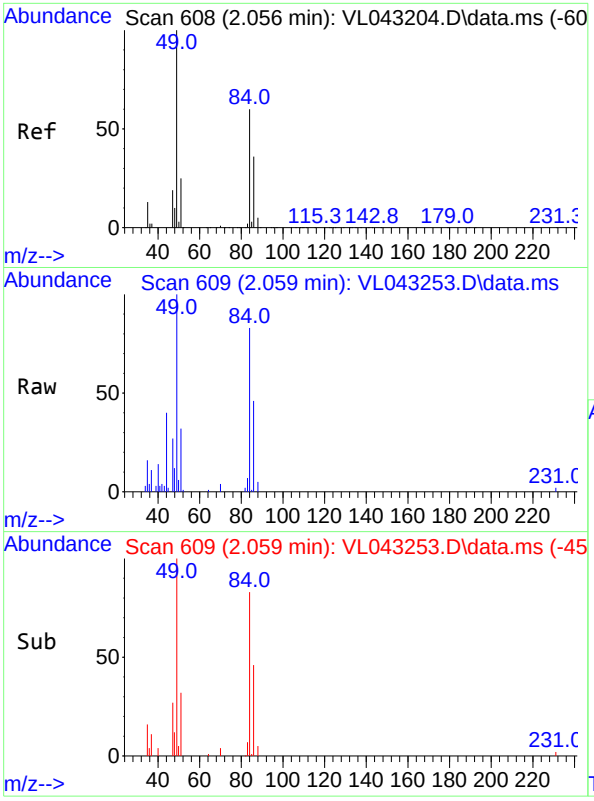


#19
Isopropyl Alcohol
Concen: 0.706 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 45 Resp: 5404

Ion	Ratio	Lower	Upper
45	100		
58	557.6	31.3	46.9#

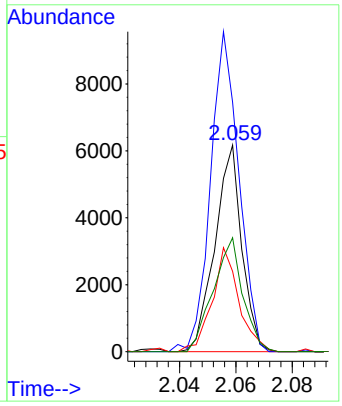




#20
Methylene Chloride
Concen: 0.262 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 84 Resp: 409

Ion	Ratio	Lower	Upper
84	100		
49	120.8	132.9	199.3#
51	38.9	34.8	52.2
86	55.2	48.2	72.2



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Manual Integrations
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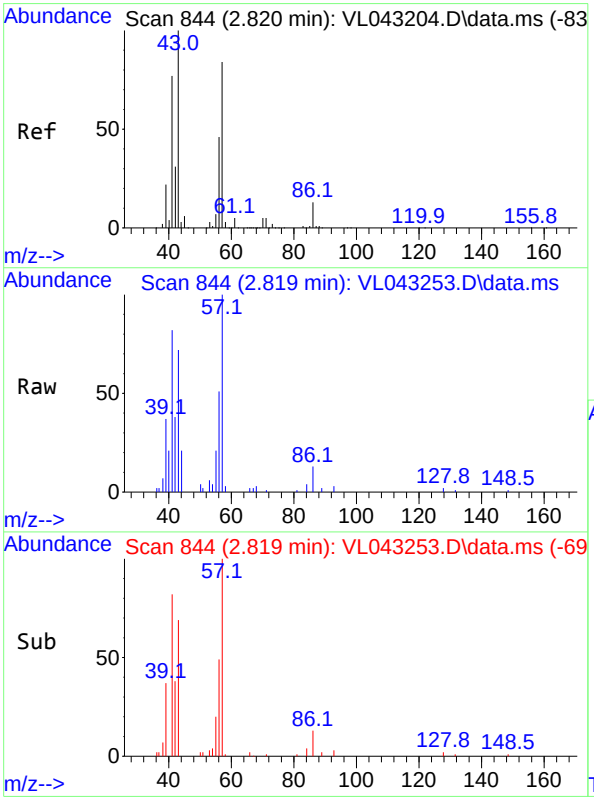
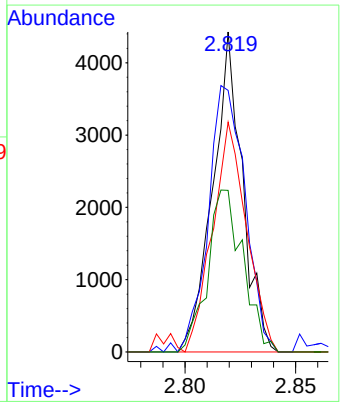
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

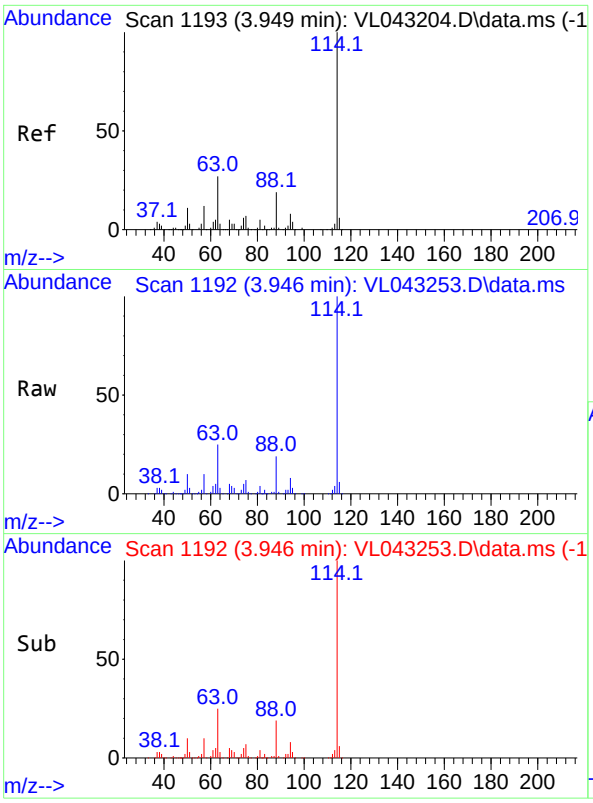


#26
Hexane
Concen: 0.322 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 57 Resp: 4125

Ion	Ratio	Lower	Upper
57	100		
41	107.6	74.6	111.8
43	85.7	179.0	268.4#
56	60.3	42.3	63.5

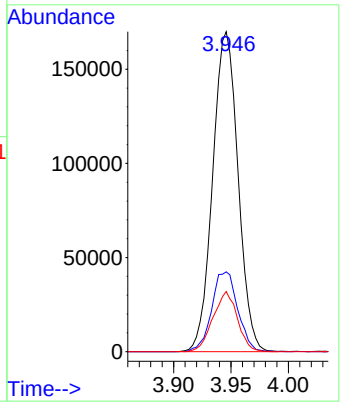




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion:114 Resp: 26143

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	18.1	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Manual Integrations
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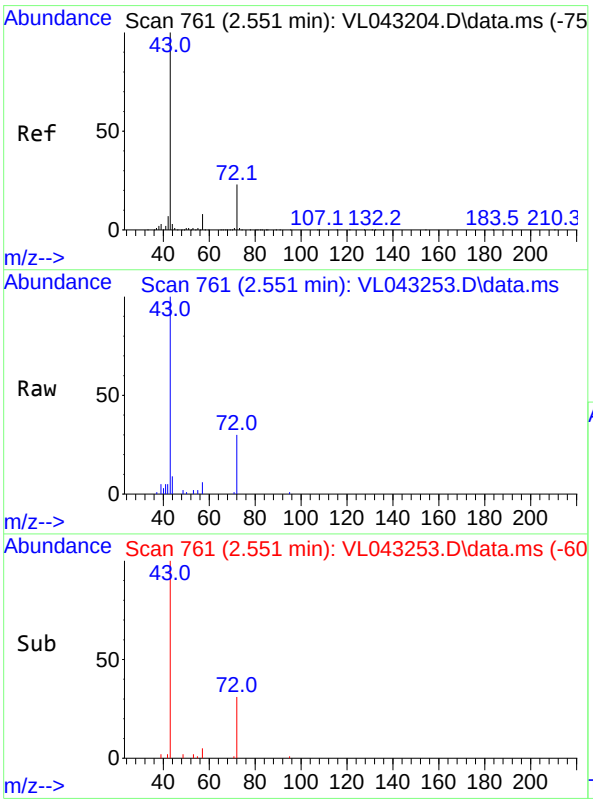
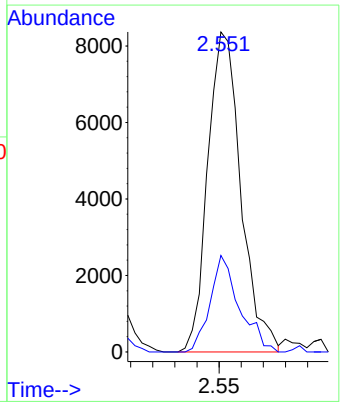
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

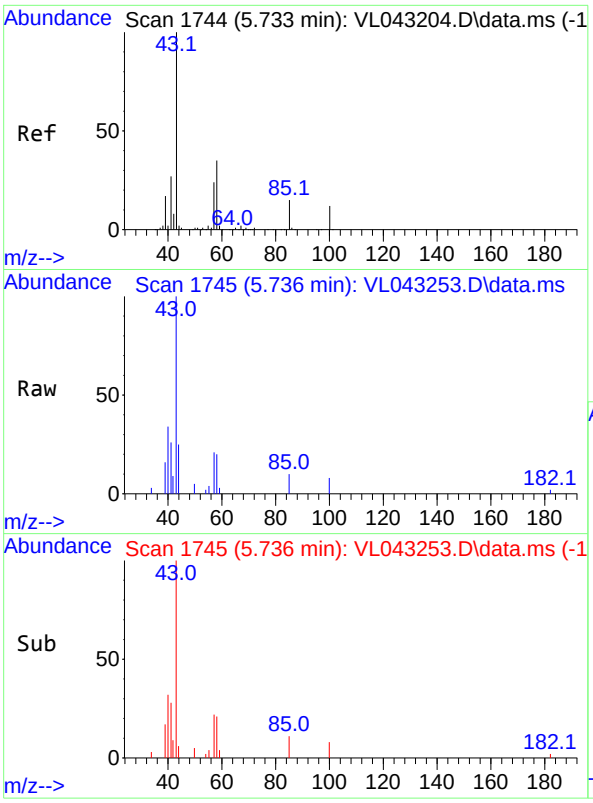


#34
2-Butanone
Concen: 0.472 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 43 Resp: 8708

Ion	Ratio	Lower	Upper
43	100		
72	27.2	18.1	27.1#

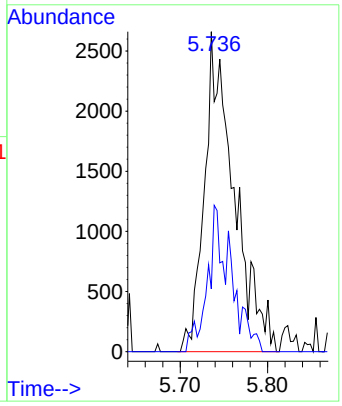




#50
4-Methyl-2-Pentanone
Concen: 0.240 ppbv m
RT: 5.736 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 43 Resp: 623

Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.4	42.6



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Manual Integrations
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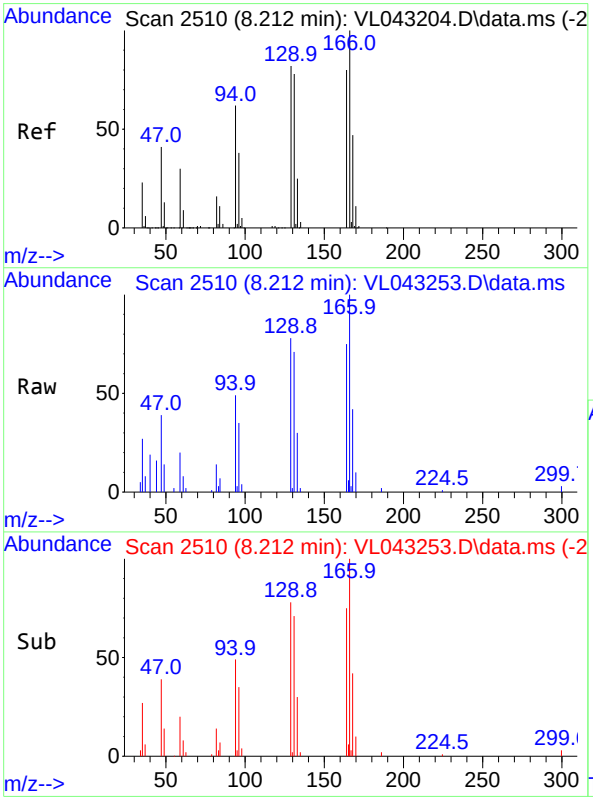
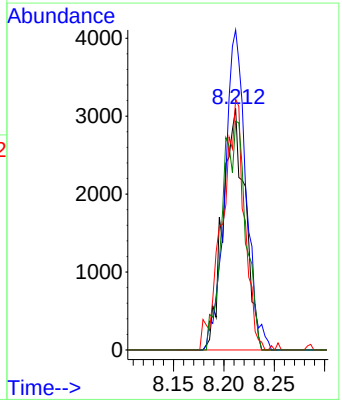
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

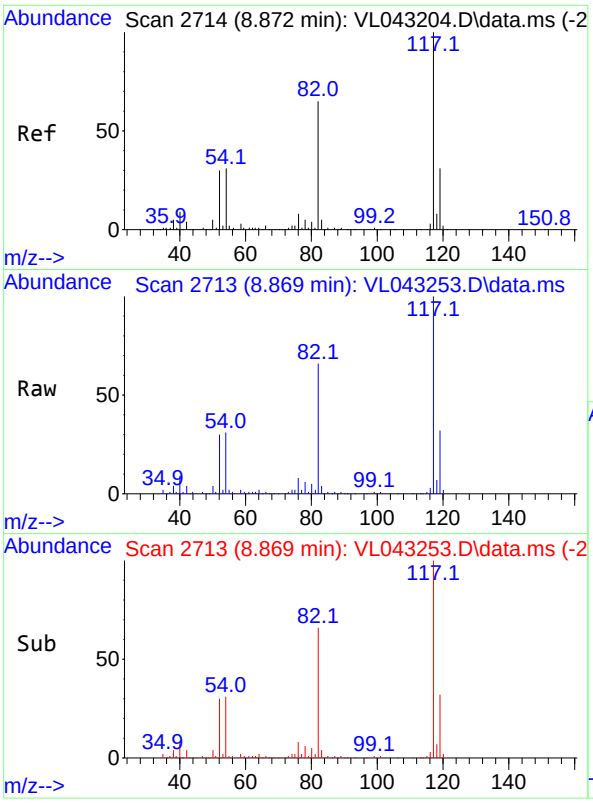


#52
Tetrachloroethene
Concen: 0.507 ppbv m
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion:164 Resp: 4721

Ion	Ratio	Lower	Upper
164	100		
166	132.5	99.4	149.2
129	103.9	81.8	122.8
131	94.7	77.4	116.2

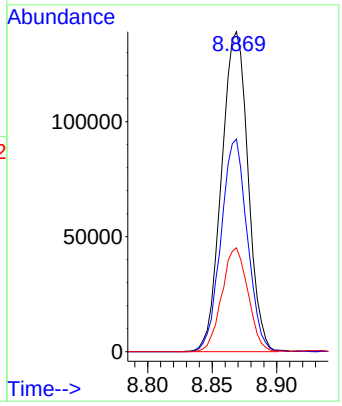




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion:117 Resp: 19857

Ion	Ratio	Lower	Upper
117	100		
82	65.9	56.1	84.1
119	32.1	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Manual Integrations
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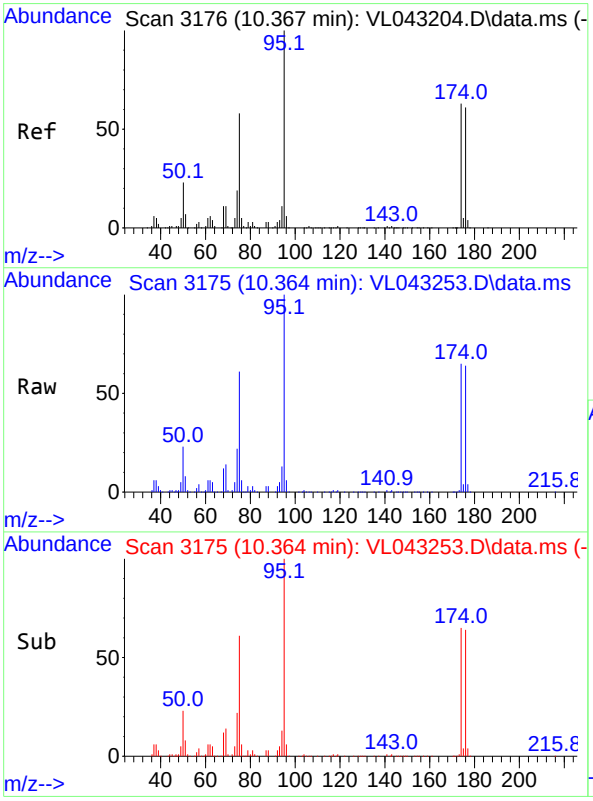
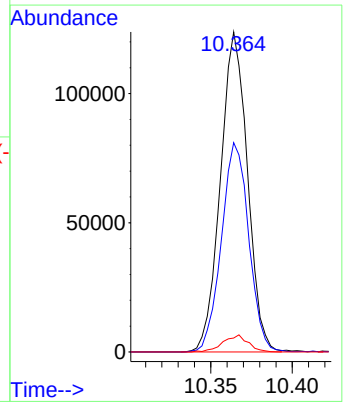
Supervised By :Mahesh Dadoda 11/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.791 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 95 Resp: 142507

Ion	Ratio	Lower	Upper
95	100		
174	66.4	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:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	16-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-12	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	0.52	2.57	J	2	1.09	4.94	11/19/25 18:55	VL111925
74-87-3	Chloromethane	0.20	0.41	U	2	0.41	2.07	11/19/25 18:55	VL111925
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/19/25 18:55	VL111925
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/19/25 18:55	VL111925
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/19/25 18:55	VL111925
109-99-9	Tetrahydrofuran	3.00	8.85		2	0.47	2.95	11/19/25 18:55	VL111925
75-69-4	Trichlorofluoromethane	0.34	1.91	U	2	1.91	5.62	11/19/25 18:55	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/19/25 18:55	VL111925
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/19/25 18:55	VL111925
75-65-0	tert-Butyl alcohol	20.5	62.1		2	0.97	3.03	11/19/25 18:55	VL111925
142-82-5	Heptane	2.20	9.02		2	1.39	4.10	11/19/25 18:55	VL111925
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/19/25 18:55	VL111925
67-64-1	Acetone	630	1500	E	2	0.86	2.38	11/19/25 18:55	VL111925
75-15-0	Carbon Disulfide	1.10	3.43		2	0.50	3.11	11/19/25 18:55	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/19/25 18:55	VL111925
75-09-2	Methylene Chloride	1.70	5.91		2	1.60	3.47	11/19/25 18:55	VL111925
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/19/25 18:55	VL111925
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/19/25 18:55	VL111925
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/19/25 18:55	VL111925
78-93-3	2-Butanone	18.9	55.7		2	0.32	2.95	11/19/25 18:55	VL111925
56-23-5	Carbon Tetrachloride	0.050	0.31	U	2	0.31	0.38	11/19/25 18:55	VL111925
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/19/25 18:55	VL111925
67-66-3	Chloroform	0.19	0.93	U	2	0.93	4.88	11/19/25 18:55	VL111925
71-55-6	1,1,1-Trichloroethane	0.18	0.98		2	0.16	0.33	11/19/25 18:55	VL111925
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/19/25 18:55	VL111925
71-43-2	Benzene	0.34	1.09	J	2	0.51	3.19	11/19/25 18:55	VL111925
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/19/25 18:55	VL111925
79-01-6	Trichloroethene	0.050	0.27	U	2	0.27	0.32	11/19/25 18:55	VL111925
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/19/25 18:55	VL111925
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/19/25 18:55	VL111925
108-10-1	4-Methyl-2-Pentanone	7.10	29.1		2	0.78	4.10	11/19/25 18:55	VL111925
108-88-3	Toluene	1.70	6.41		2	1.21	3.77	11/19/25 18:55	VL111925
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/19/25 18:55	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/19/25 18:55	VL111925
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/19/25 18:55	VL111925
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/19/25 18:55	VL111925
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/19/25 18:55	VL111925
127-18-4	Tetrachloroethene	10.4	70.5		2	0.20	0.41	11/19/25 18:55	VL111925
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/19/25 18:55	VL111925
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/19/25 18:55	VL111925
179601-23-1	m/p-Xylene	0.86	3.74	J	2	3.56	8.69	11/19/25 18:55	VL111925
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/19/25 18:55	VL111925
100-42-5	Styrene	0.32	1.36	J	2	1.36	4.26	11/19/25 18:55	VL111925
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/19/25 18:55	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/19/25 18:55	VL111925
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/19/25 18:55	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	16-SG-1	SDG No.:	Q3626
Lab Sample ID:	Q3626-12	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 18:55	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 18:55	VL111925
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/19/25 18:55	VL111925
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 18:55	VL111925
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 18:55	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/19/25 18:55	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/19/25 18:55	VL111925
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/19/25 18:55	VL111925
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/19/25 18:55	VL111925
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/19/25 18:55	VL111925
110-54-3	Hexane	3.60	12.7		2	1.13	3.52	11/19/25 18:55	VL111925
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/19/25 18:55	VL111925
123-91-1	1,4-Dioxane	11.6	41.8		2	1.59	3.60	11/19/25 18:55	VL111925
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/19/25 18:55	VL111925
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	108000							
540-36-3	1,4-Difluorobenzene	306000							
3114-55-4	Chlorobenzene-d5	247000							

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\VL111925\
Data File : VL043246.D
Acq On : 19 Nov 2025 18:55
Operator : SY/MD
Sample : Q3626-12 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:09:15 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-SG-1

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	2.780	49	107506	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	305536	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.868	117	246745	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	178880	9.890	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	4013	0.265	ppbv		99
9) Propene	1.482	41	9652	1.524	ppbv	#	86
10) Heptane	4.965	43	21077	1.118	ppbv		91
11) Trichlorofluoromethane	1.874	101	1784m	0.121	ppbv		
13) Ethanol	1.722	45	782847	351.579	ppbv		98
15) Acetone	1.835	43	4713258	315.559	ppbv	#	26
17) tert-Butyl alcohol	2.036	59	201360	10.271	ppbv		99
19) Isopropyl Alcohol	1.884	45	369187	43.742	ppbv	#	36
20) Methylene Chloride	2.059	84	6888	0.847	ppbv		88
26) Hexane	2.819	57	25163	1.782	ppbv	#	42
27) Carbon Disulfide	2.146	76	7909	0.549	ppbv	#	72
32) 1,1,1-Trichloroethane	3.363	97	1879m	0.088	ppbv		
34) 2-Butanone	2.551	43	204250	9.470	ppbv		99
36) Benzene	3.651	78	4837	0.165	ppbv	#	84
40) 1,4-Dioxane	4.577	88	27891	5.793	ppbv	#	90
41) Tetrahydrofuran	3.052	42	17731	1.489	ppbv	#	51
50) 4-Methyl-2-Pentanone	5.739	43	108494m	3.571	ppbv		
51) 2-Hexanone	7.425	43	28430m	1.205	ppbv		
52) Tetrachloroethene	8.215	164	56759	5.215	ppbv		98
53) Toluene	6.920	91	30132	0.870	ppbv		98
59) m/p-Xylene	9.522	91	16446	0.432	ppbv		99
60) o-Xylene	9.956	91	5915	0.156	ppbv		95
61) Styrene	9.859	104	2621m	0.157	ppbv		
74) 1,2,4-Trimethylbenzene	11.529	105	4674	0.110	ppbv	#	55

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043246.D
Acq On : 19 Nov 2025 18:55
Operator : SY/MD
Sample : Q3626-12 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:09:15 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-SG-1

Manual Integrations APPROVED
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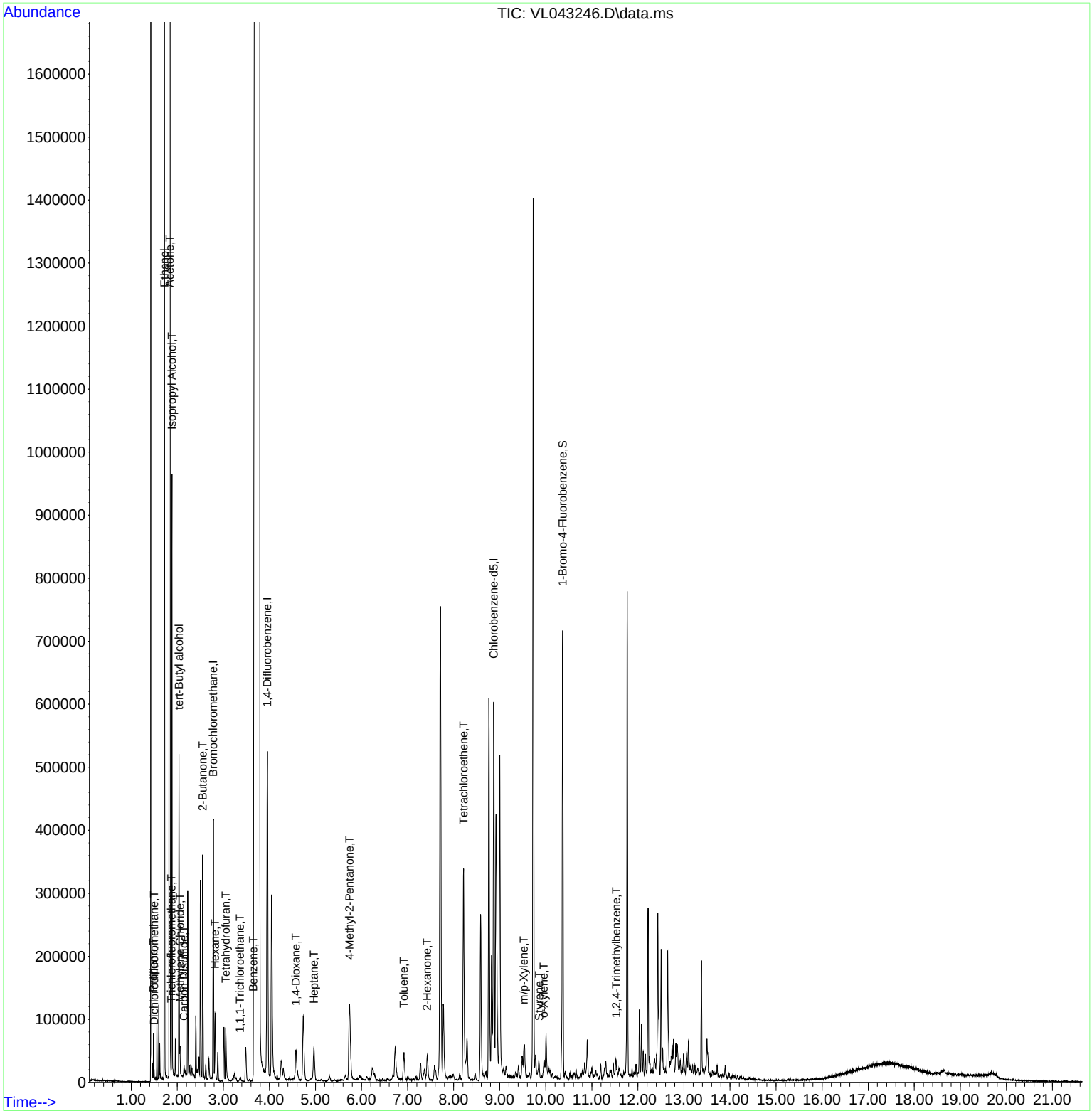
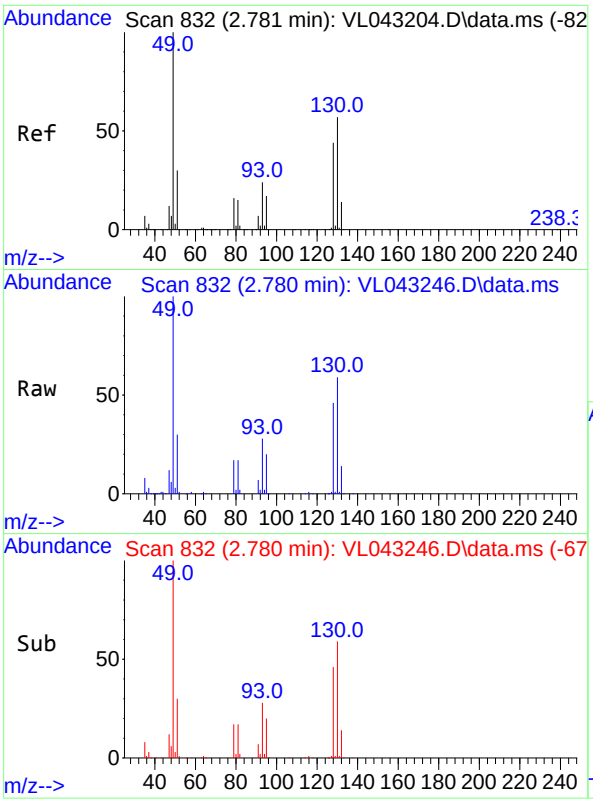
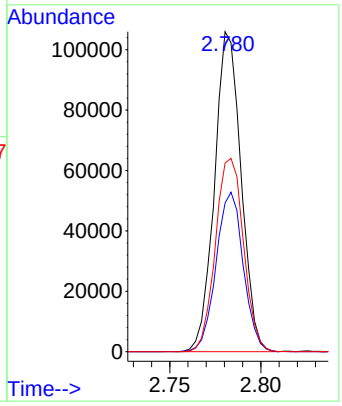




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.001 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 49 Resp: 10750

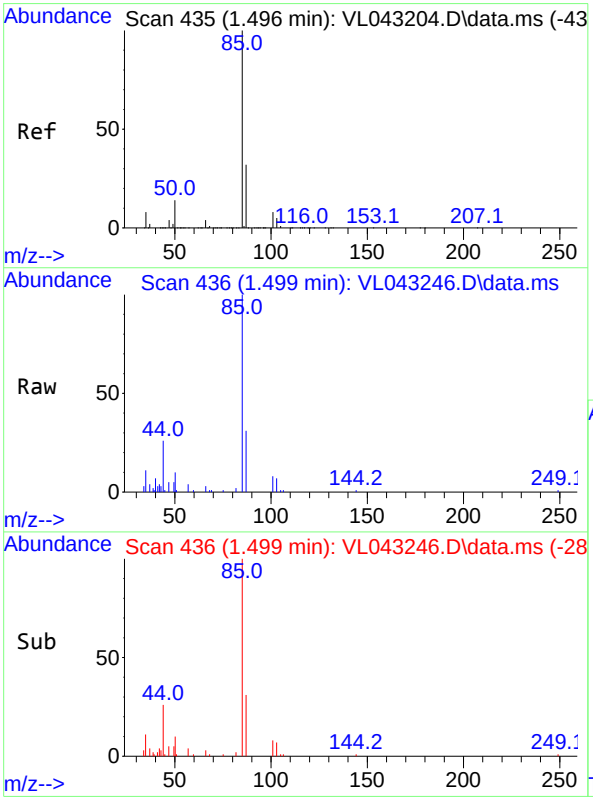
Ion	Ratio	Lower	Upper
49	100		
128	51.0	23.0	69.0
130	63.9	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Manual Integrations
APPROVED

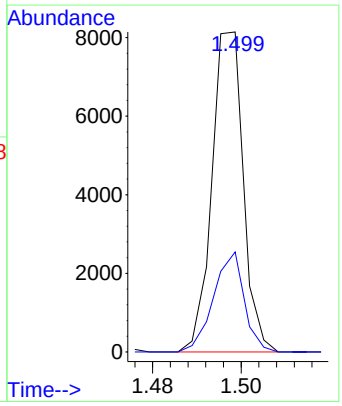
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

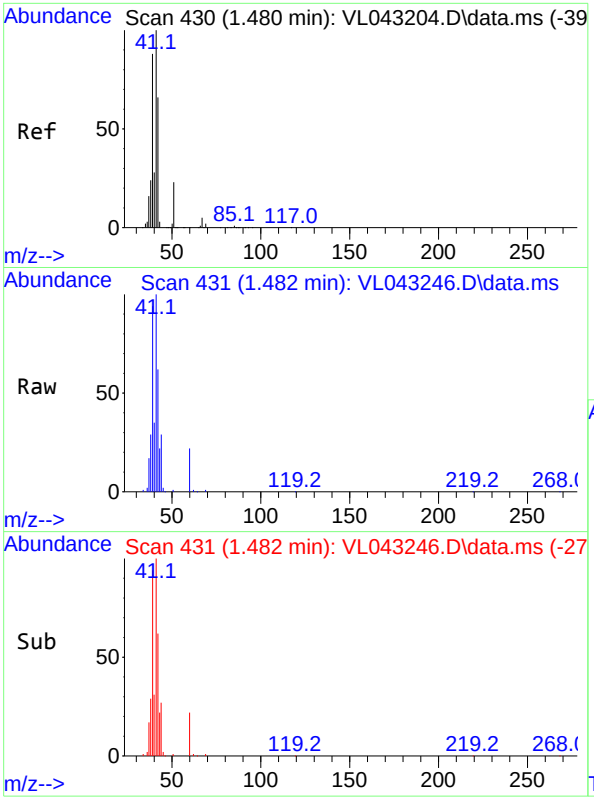


#2
Dichlorodifluoromethane
Concen: 0.265 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 85 Resp: 4013

Ion	Ratio	Lower	Upper
85	100		
87	31.3	25.4	38.2

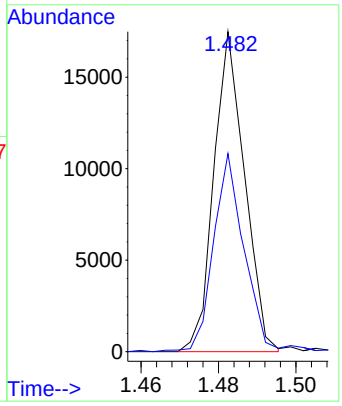




#9
Propene
Concen: 1.524 ppbv
RT: 1.482 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 41 Resp: 965

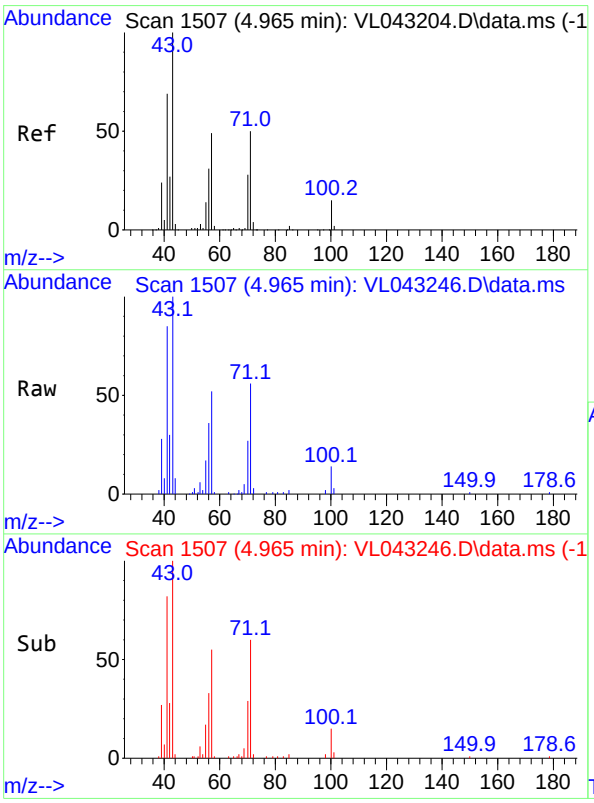
Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Manual Integrations
APPROVED

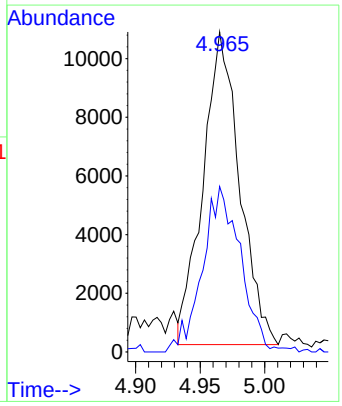
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

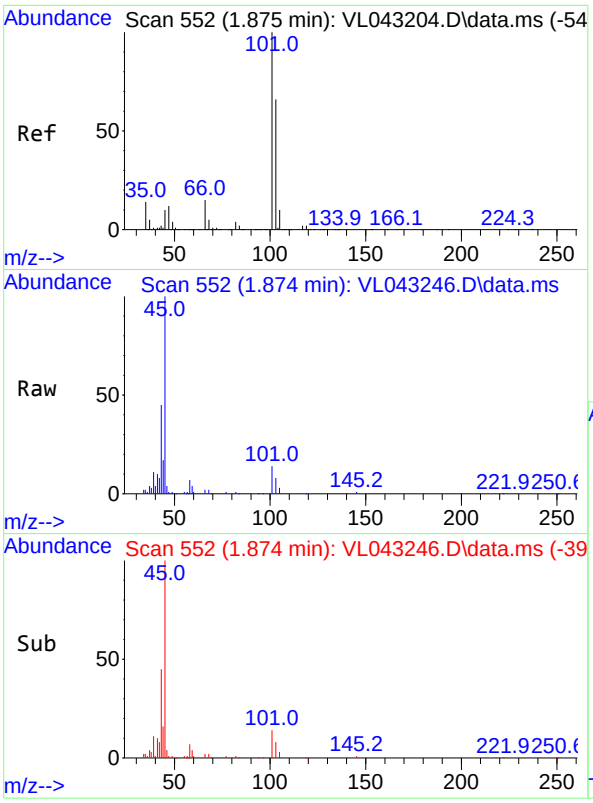


#10
Heptane
Concen: 1.118 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 43 Resp: 21077

Ion	Ratio	Lower	Upper
43	100		
57	55.9	39.7	59.5

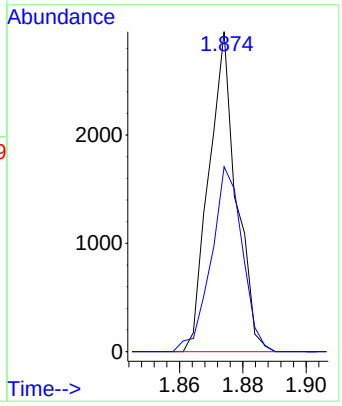




#11
Trichlorofluoromethane
Concen: 0.121 ppbv m
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion:101 Resp: 178

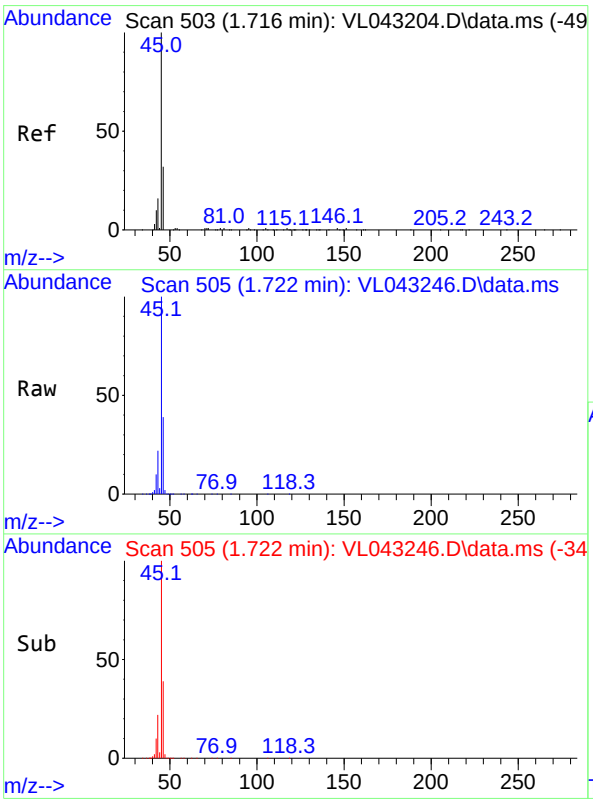
Ion	Ratio	Lower	Upper
101	100		
103	57.8	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Manual Integrations
APPROVED

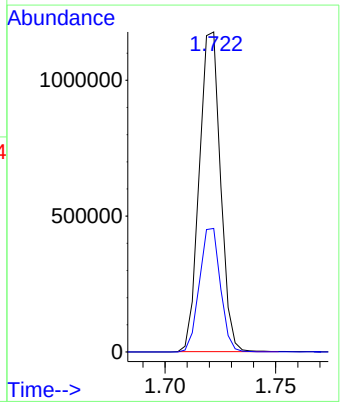
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

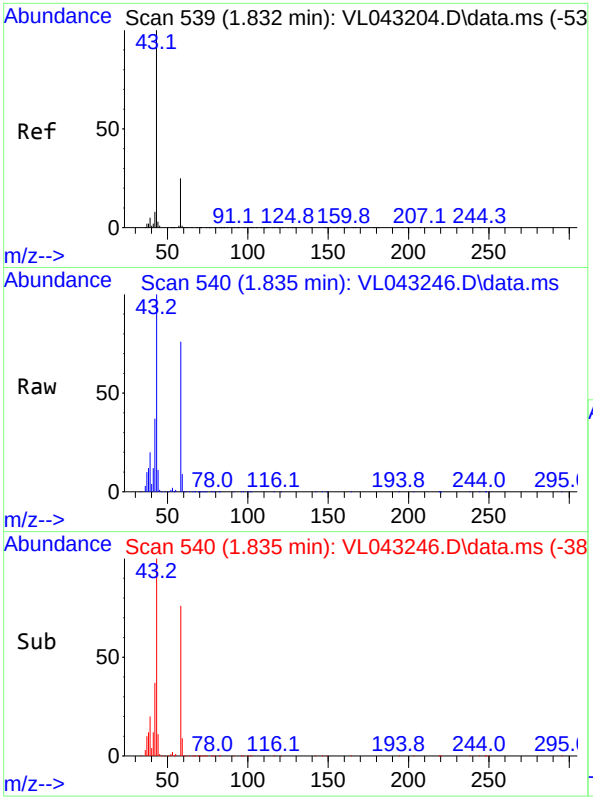


#13
Ethanol
Concen: 351.579 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 45 Resp: 782847

Ion	Ratio	Lower	Upper
45	100		
46	38.4	15.0	59.8

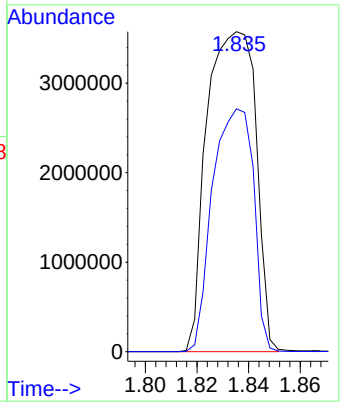




#15
Acetone
Concen: 315.559 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 43 Resp: 471325

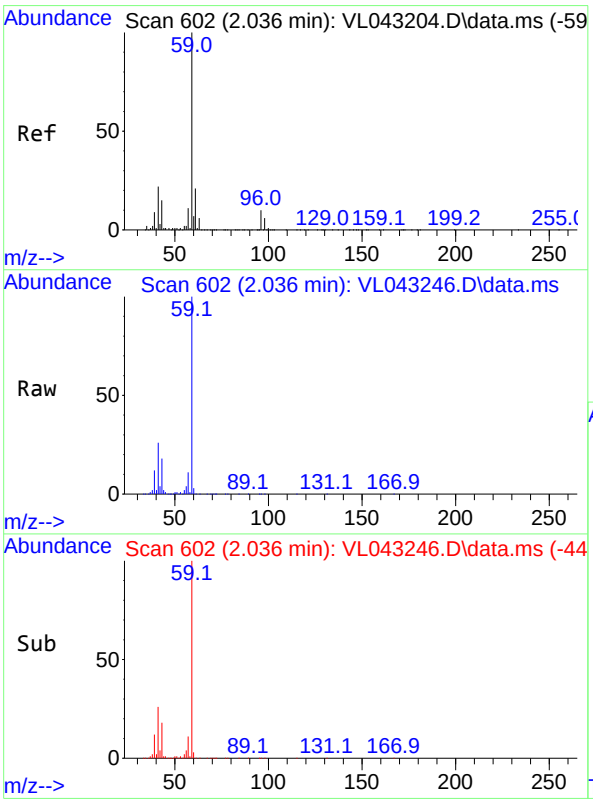
Ion	Ratio	Lower	Upper
43	100		
58	63.4	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Manual Integrations
APPROVED

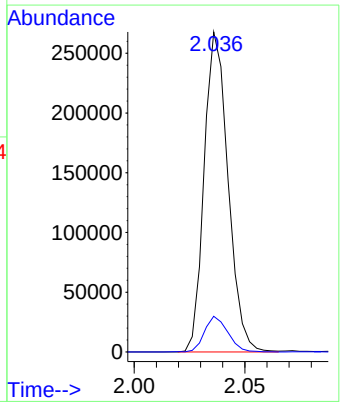
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

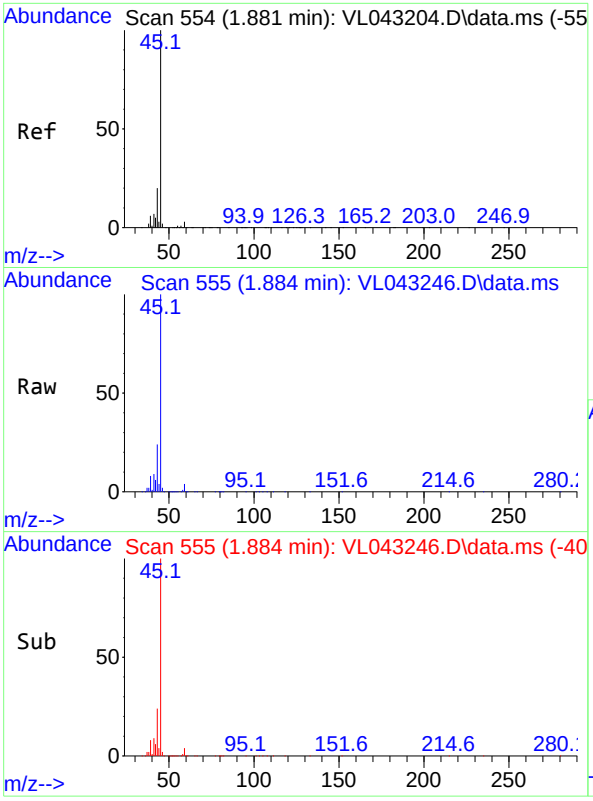


#17
tert-Butyl alcohol
Concen: 10.271 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 59 Resp: 201360

Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.0	13.4

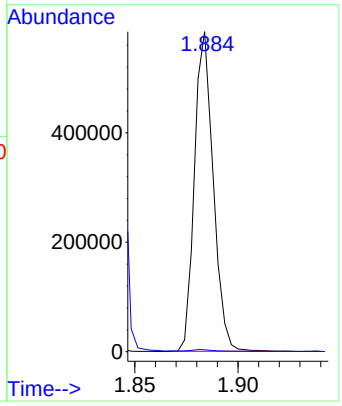




#19
Isopropyl Alcohol
Concen: 43.742 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 45 Resp: 36918

Ion	Ratio	Lower	Upper
45	100		
58	0.0	31.3	46.9



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Manual Integrations
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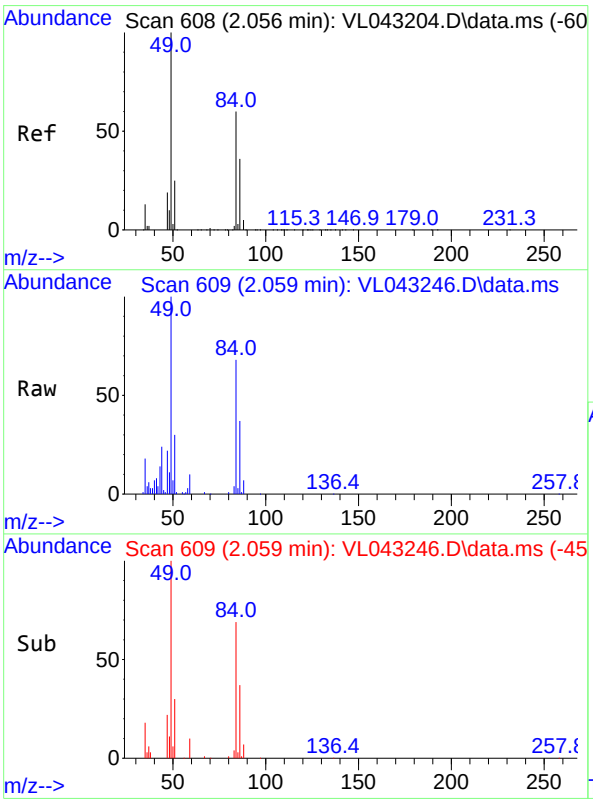
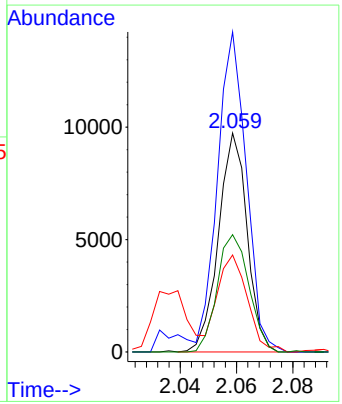
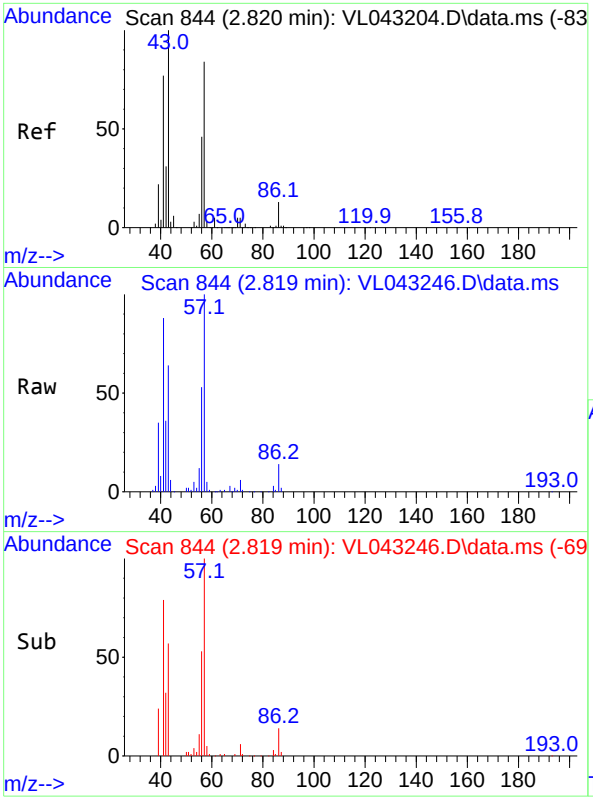


#20
Methylene Chloride
Concen: 0.847 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 84 Resp: 6888

Ion	Ratio	Lower	Upper
84	100		
49	144.2	132.9	199.3
51	41.8	34.8	52.2
86	53.6	48.2	72.2

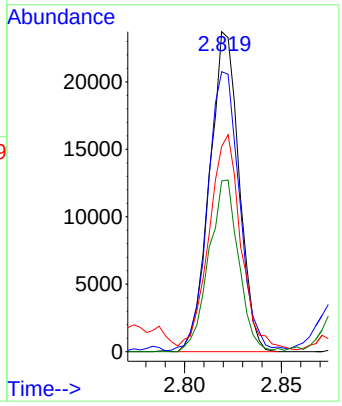




#26
Hexane
Concen: 1.782 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 57 Resp: 2516

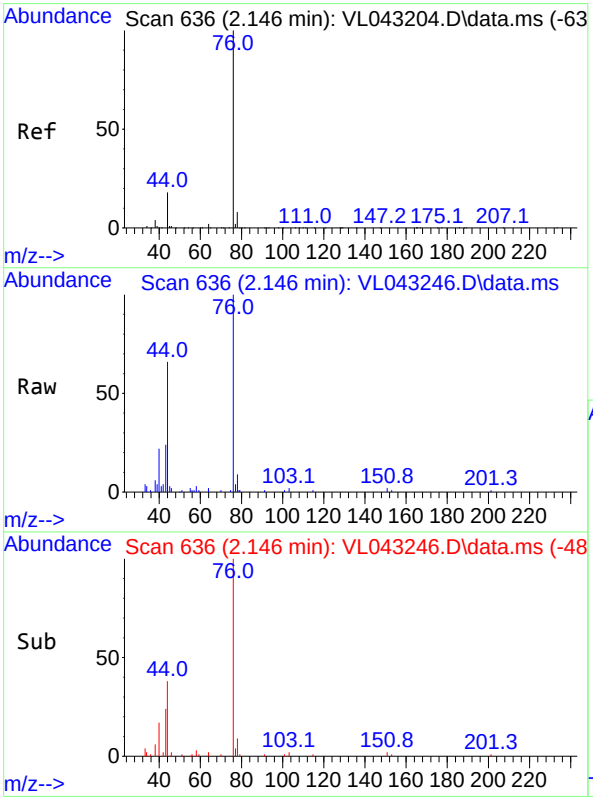
Ion	Ratio	Lower	Upper
57	100		
41	91.9	74.6	111.8
43	70.6	179.0	268.4#
56	54.2	42.3	63.5



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Manual Integrations
APPROVED

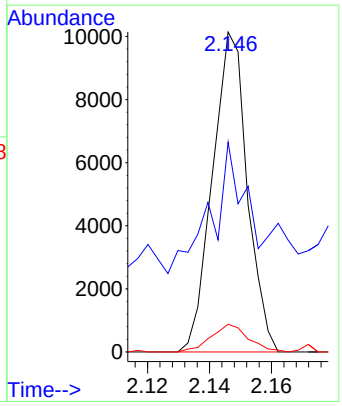
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

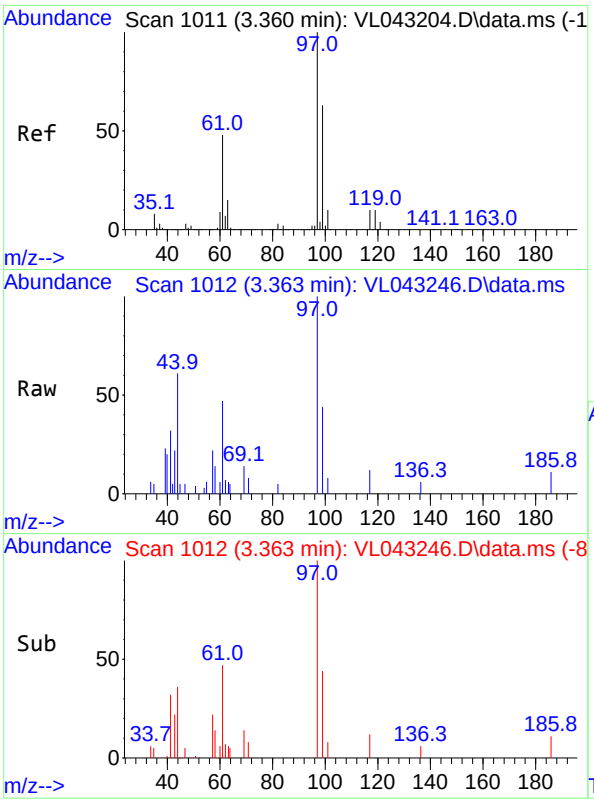


#27
Carbon Disulfide
Concen: 0.549 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 76 Resp: 7909

Ion	Ratio	Lower	Upper
76	100		
44	0.0	16.1	24.1#
78	10.9	9.6	14.4

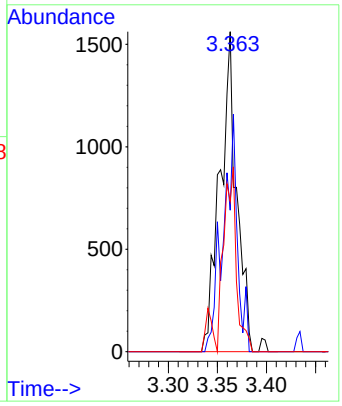




#32
1,1,1-Trichloroethane
Concen: 0.088 ppbv m
RT: 3.363 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 97 Resp: 187

Ion	Ratio	Lower	Upper
97	100		
99	61.8	50.3	75.5
61	48.5	38.9	58.3



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Manual Integrations
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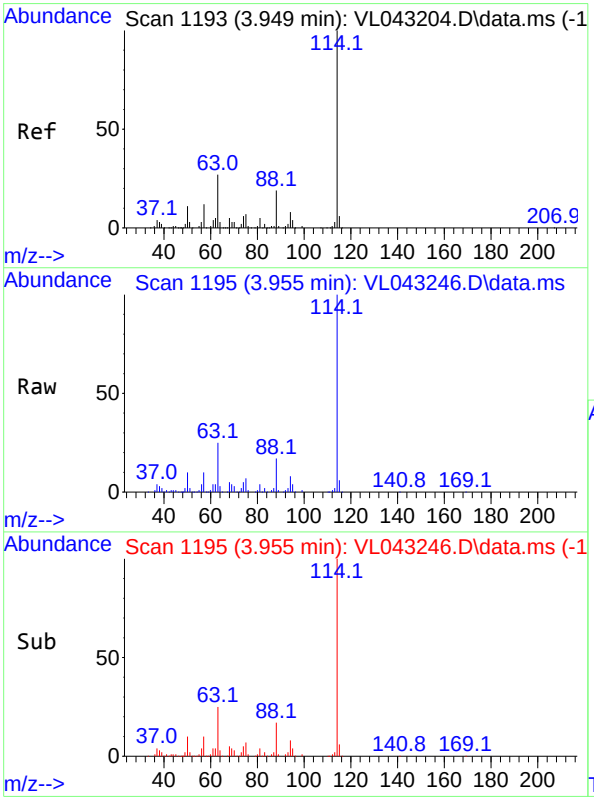
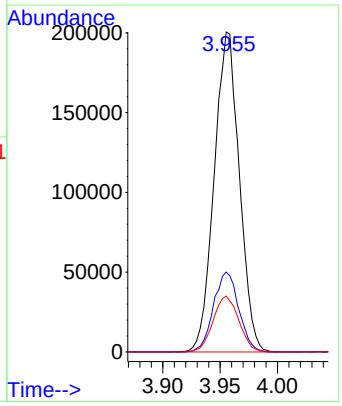
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

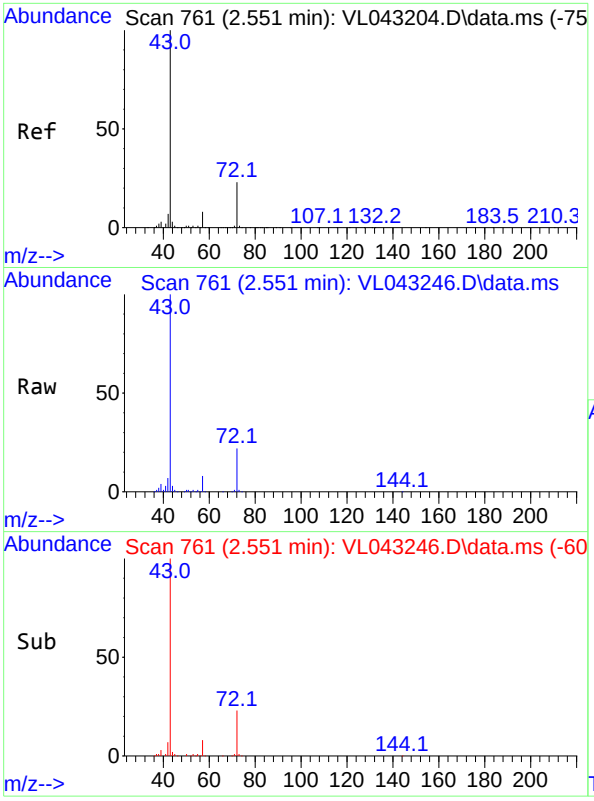


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion:114 Resp: 305536

Ion	Ratio	Lower	Upper
114	100		
63	25.1	21.0	31.6
88	17.9	14.9	22.3

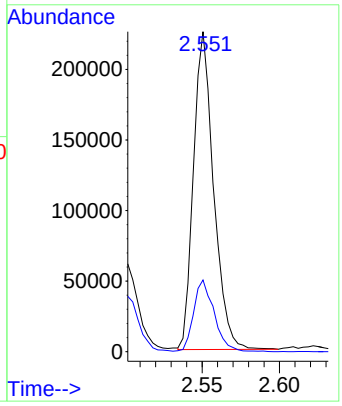




#34
2-Butanone
Concen: 9.470 ppbv
RT: 2.551 min Scan# 7(
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 43 Resp: 20425(

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.1	27.1



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

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Reviewed By :Semsettin Yesilyurt 11/21/2025
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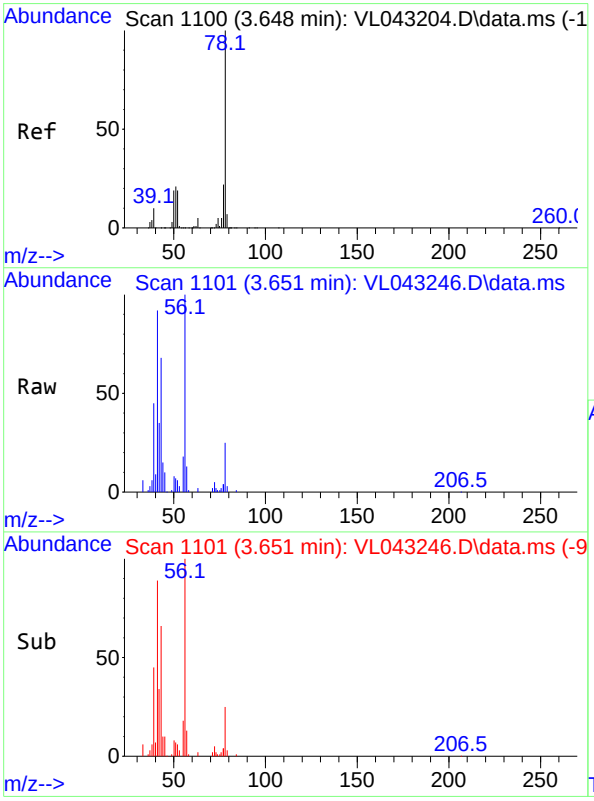
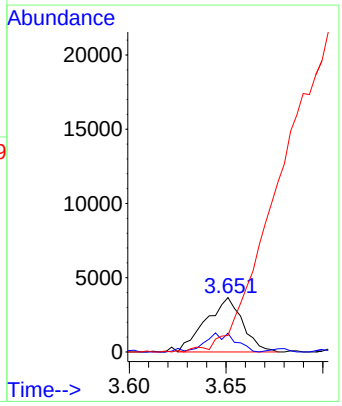
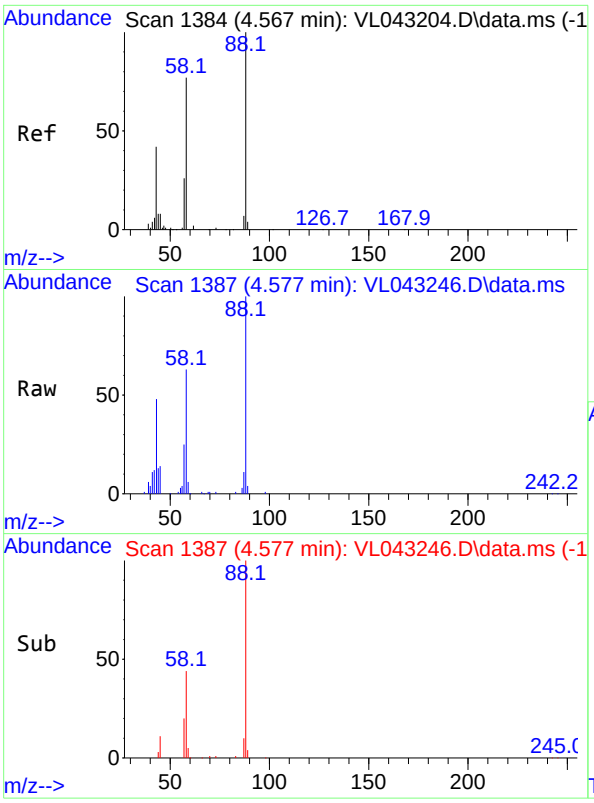


#36
Benzene
Concen: 0.165 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 78 Resp: 4837

Ion	Ratio	Lower	Upper
78	100		
77	28.3	17.5	26.3#
50	27.9	15.5	23.3#

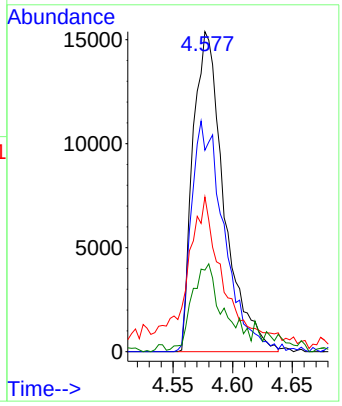




#40
1,4-Dioxane
Concen: 5.793 ppbv
RT: 4.577 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 88 Resp: 2789

Ion	Ratio	Lower	Upper
88	100		
58	76.0	63.0	94.6
43	55.3	32.5	48.7#
57	27.7	0.0	0.0#



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

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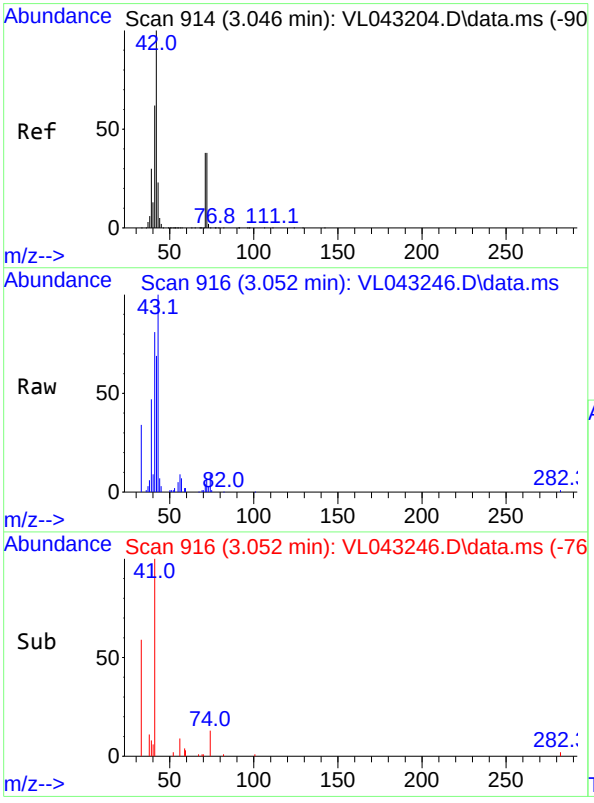
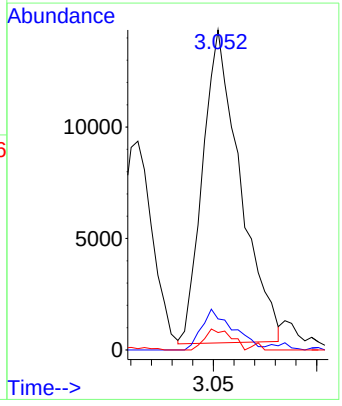
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

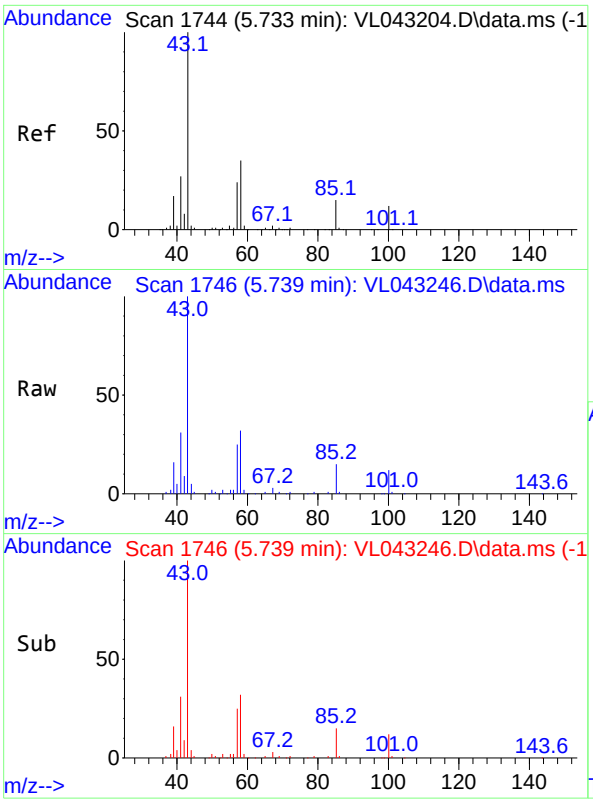


#41
Tetrahydrofuran
Concen: 1.489 ppbv
RT: 3.052 min Scan# 916
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 42 Resp: 17731

Ion	Ratio	Lower	Upper
42	100		
72	12.2	30.6	46.0#
71	5.2	30.5	45.7#

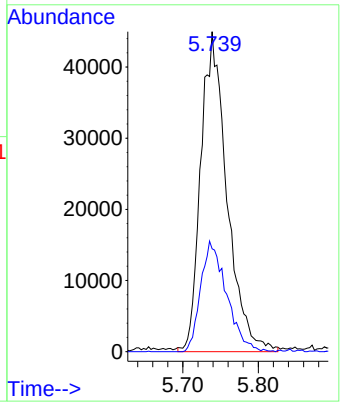




#50
4-Methyl-2-Pentanone
Concen: 3.571 ppbv m
RT: 5.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 43 Resp: 10849

Ion	Ratio	Lower	Upper
43	100		
58	34.1	28.4	42.6



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Manual Integrations
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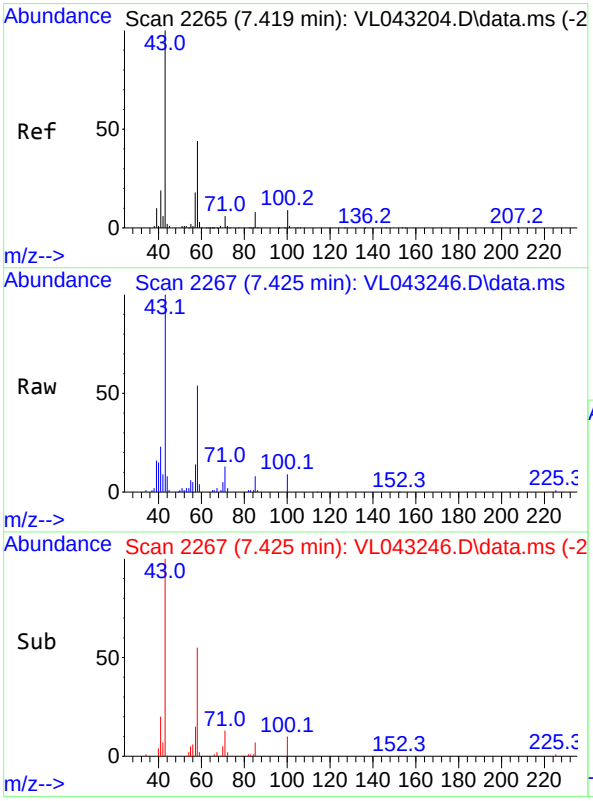
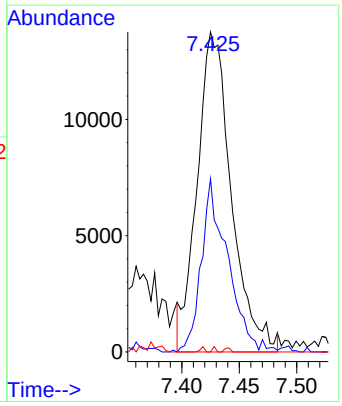
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

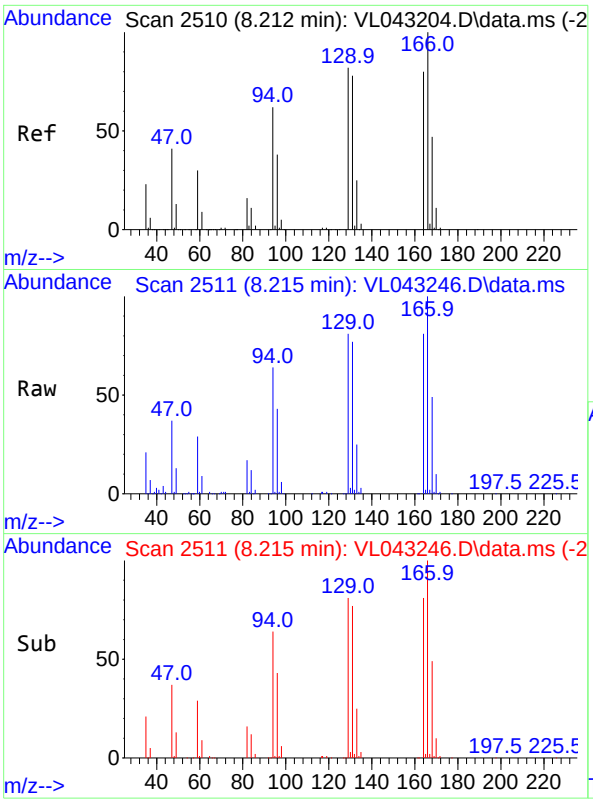


#51
2-Hexanone
Concen: 1.205 ppbv m
RT: 7.425 min Scan# 2267
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 43 Resp: 28430

Ion	Ratio	Lower	Upper
43	100		
58	42.4	38.4	57.6
98	0.4	0.0	0.0#

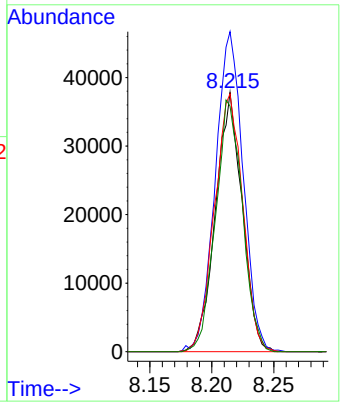




#52
Tetrachloroethene
Concen: 5.215 ppbv
RT: 8.215 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion:164 Resp: 5675

Ion	Ratio	Lower	Upper
164	100		
166	123.5	99.4	149.2
129	99.6	81.8	122.8
131	94.8	77.4	116.2



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

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Reviewed By :Semsettin Yesilyurt 11/21/2025
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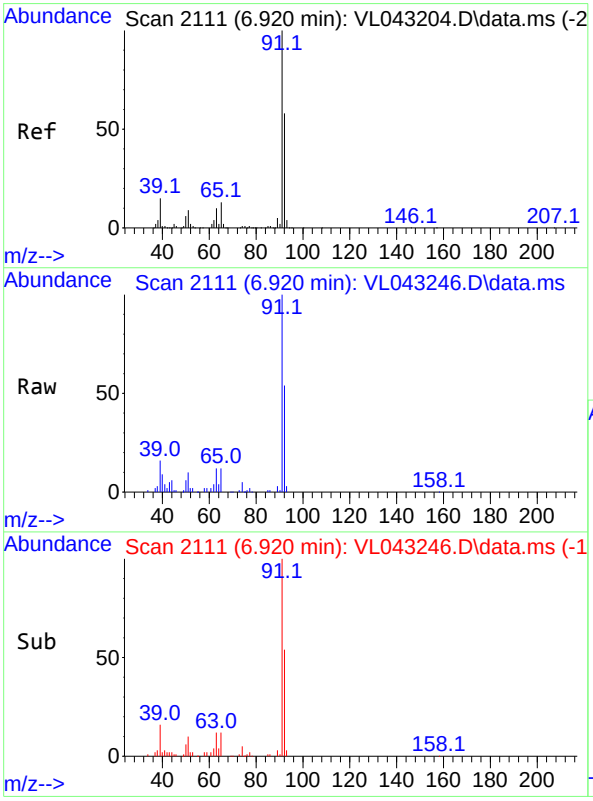
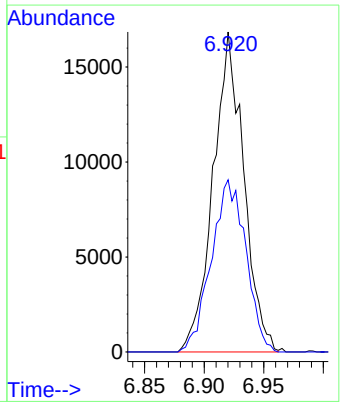
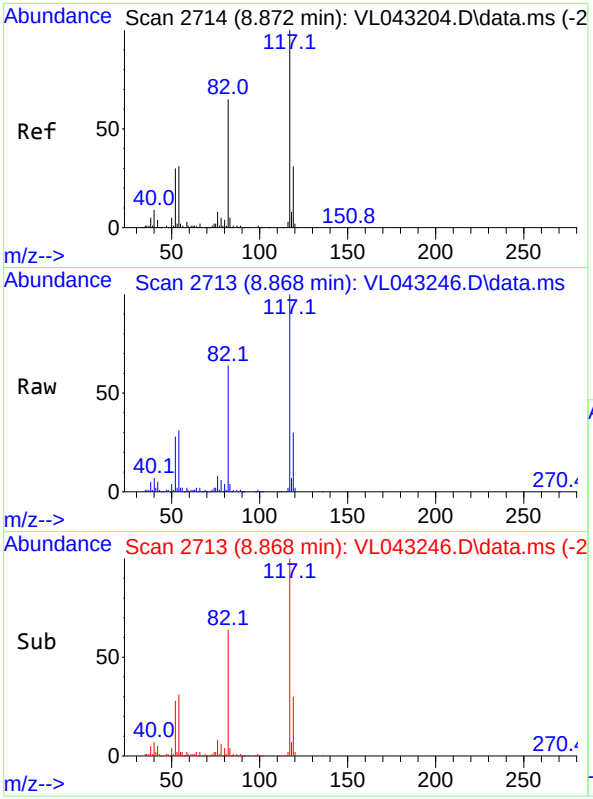


#53
Toluene
Concen: 0.870 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 91 Resp: 30132

Ion	Ratio	Lower	Upper
91	100		
92	60.7	47.4	71.0

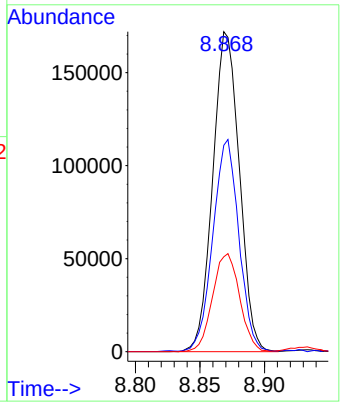




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.868 min Scan# 2
Delta R.T. -0.004 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion:117 Resp: 24674

Ion	Ratio	Lower	Upper
117	100		
82	65.0	56.1	84.1
119	31.3	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Manual Integrations
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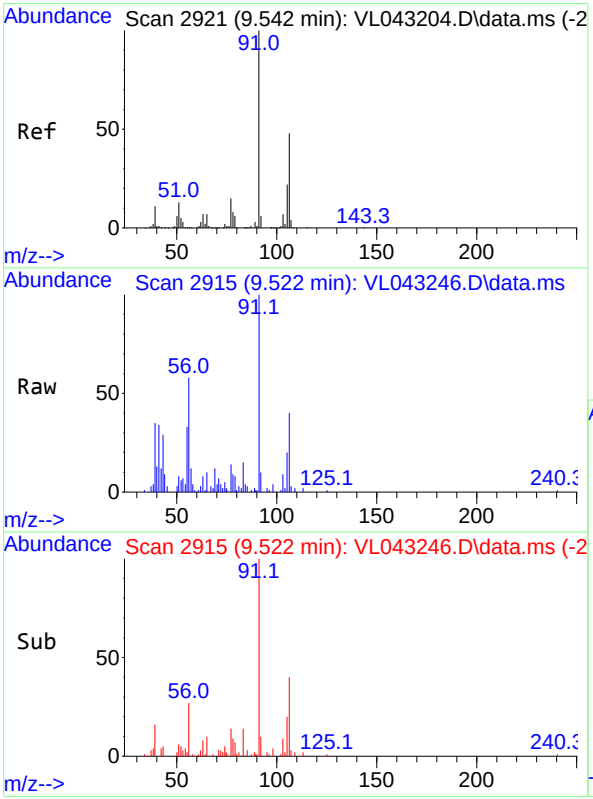
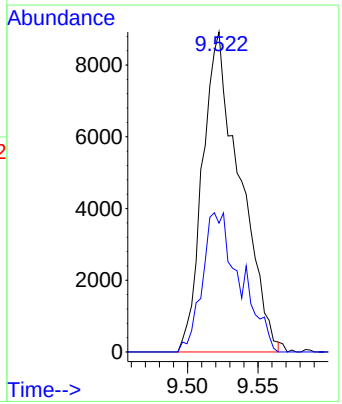
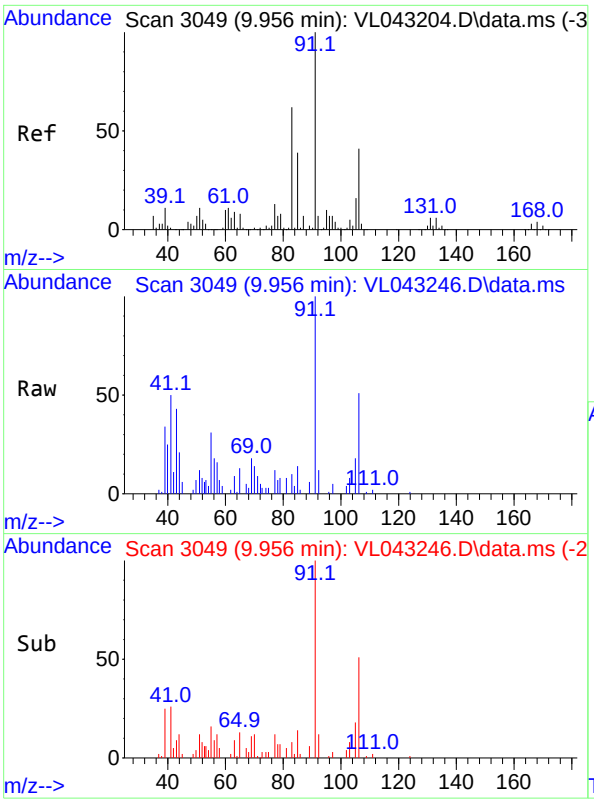


#59
m/p-Xylene
Concen: 0.432 ppbv
RT: 9.522 min Scan# 2915
Delta R.T. -0.020 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 91 Resp: 16446

Ion	Ratio	Lower	Upper
91	100		
106	44.2	36.1	54.1

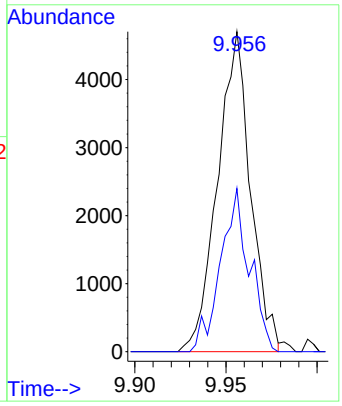




#60
o-Xylene
Concen: 0.156 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 91 Resp: 591

Ion	Ratio	Lower	Upper
91	100		
106	44.9	20.9	62.8



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

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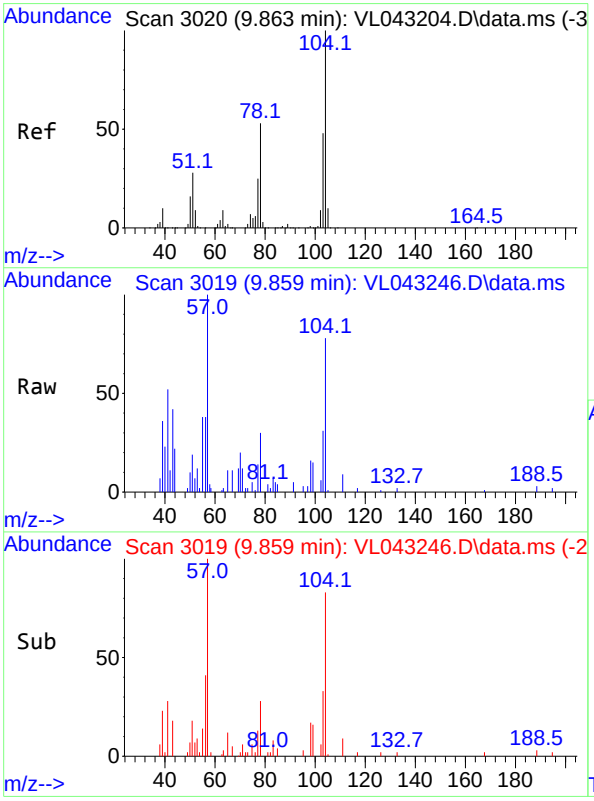
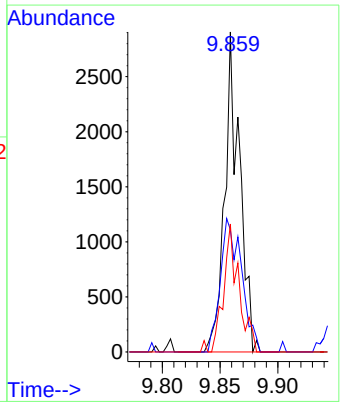
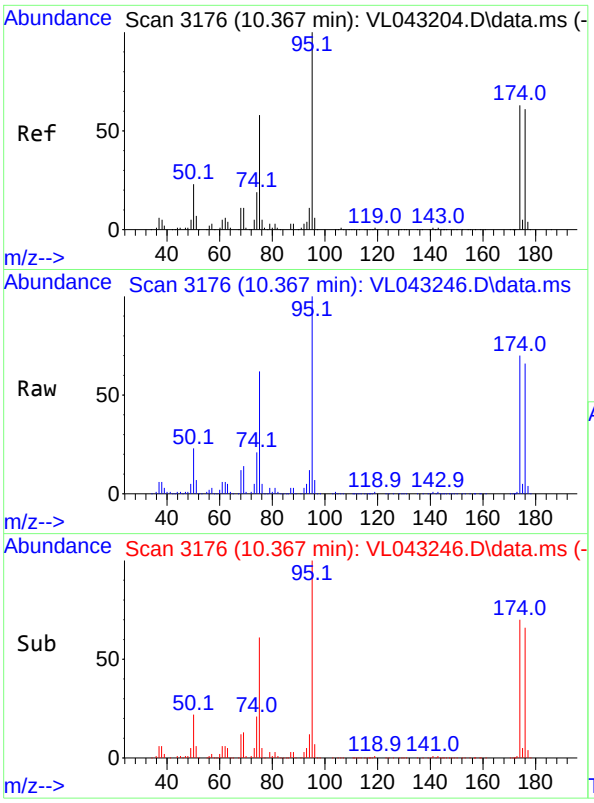


#61
Styrene
Concen: 0.157 ppbv m
RT: 9.859 min Scan# 3019
Delta R.T. -0.004 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion:104 Resp: 2621

Ion	Ratio	Lower	Upper
104	100		
78	59.1	42.1	63.1
103	41.4	37.2	55.8

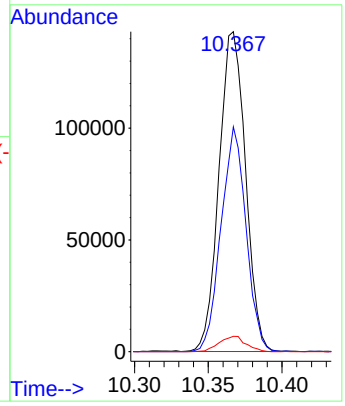




#68
1-Bromo-4-Fluorobenzene
Concen: 9.890 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 95 Resp: 17888

Ion	Ratio	Lower	Upper
95	100		
174	66.2	50.2	75.2
175	4.8	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

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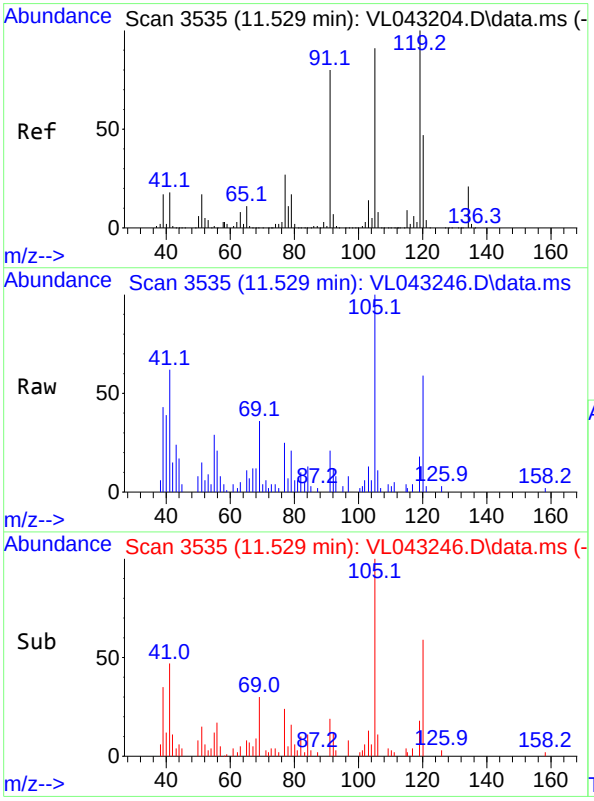
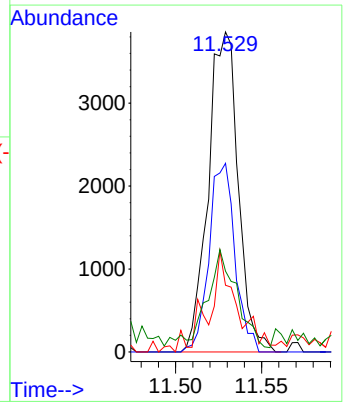


#74
1,2,4-Trimethylbenzene
Concen: 0.110 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion:105 Resp: 4674

Ion	Ratio	Lower	Upper
105	100		
120	58.9	41.7	62.5
91	17.5	70.0	105.0#
77	20.0	23.8	35.8#



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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	16-SG-1DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-12DL	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	4.40	21.8	UD	40	21.8	98.9	11/19/25 19:52	VL111925
74-87-3	Chloromethane	3.90	8.05	UD	40	8.05	41.3	11/19/25 19:52	VL111925
75-01-4	Vinyl Chloride	1.00	2.56	UD	40	2.56	3.07	11/19/25 19:52	VL111925
74-83-9	Bromomethane	3.10	12.0	UD	40	12.0	77.7	11/19/25 19:52	VL111925
75-00-3	Chloroethane	6.00	15.8	UD	40	15.8	52.8	11/19/25 19:52	VL111925
109-99-9	Tetrahydrofuran	3.20	9.44	UD	40	9.44	59.0	11/19/25 19:52	VL111925
75-69-4	Trichlorofluoromethane	6.80	38.2	UD	40	38.2	112	11/19/25 19:52	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	5.60	42.9	UD	40	42.9	153	11/19/25 19:52	VL111925
76-14-2	Dichlorotetrafluoroethane	6.00	41.9	UD	40	41.9	140	11/19/25 19:52	VL111925
75-65-0	tert-Butyl alcohol	17.2	52.1	JD	40	19.4	60.6	11/19/25 19:52	VL111925
142-82-5	Heptane	6.80	27.9	UD	40	27.9	82.0	11/19/25 19:52	VL111925
75-35-4	1,1-Dichloroethene	6.00	23.8	UD	40	23.8	79.3	11/19/25 19:52	VL111925
67-64-1	Acetone	3200	7600	ED	40	17.1	47.5	11/19/25 19:52	VL111925
75-15-0	Carbon Disulfide	3.20	9.97	UD	40	9.97	62.3	11/19/25 19:52	VL111925
1634-04-4	Methyl tert-Butyl Ether	9.20	33.2	UD	40	33.2	72.1	11/19/25 19:52	VL111925
75-09-2	Methylene Chloride	9.20	32.0	UD	40	32.0	69.5	11/19/25 19:52	VL111925
156-60-5	trans-1,2-Dichloroethene	4.80	19.0	UD	40	19.0	79.3	11/19/25 19:52	VL111925
75-34-3	1,1-Dichloroethane	5.20	21.1	UD	40	21.1	81.0	11/19/25 19:52	VL111925
110-82-7	Cyclohexane	8.80	30.3	UD	40	30.3	68.8	11/19/25 19:52	VL111925
78-93-3	2-Butanone	18.7	55.1	JD	40	6.49	59.0	11/19/25 19:52	VL111925
56-23-5	Carbon Tetrachloride	1.00	6.29	UD	40	6.29	7.55	11/19/25 19:52	VL111925
156-59-2	cis-1,2-Dichloroethene	4.00	15.9	UD	40	15.9	79.3	11/19/25 19:52	VL111925
67-66-3	Chloroform	3.80	18.6	UD	40	18.6	97.7	11/19/25 19:52	VL111925
71-55-6	1,1,1-Trichloroethane	0.64	3.49	UD	40	3.49	6.55	11/19/25 19:52	VL111925
540-84-1	2,2,4-Trimethylpentane	5.60	26.2	UD	40	26.2	93.4	11/19/25 19:52	VL111925
71-43-2	Benzene	3.20	10.2	UD	40	10.2	63.9	11/19/25 19:52	VL111925
107-06-2	1,2-Dichloroethane	3.70	15.0	UD	40	15.0	81.0	11/19/25 19:52	VL111925
79-01-6	Trichloroethene	0.96	5.16	UD	40	5.16	6.45	11/19/25 19:52	VL111925
78-87-5	1,2-Dichloropropane	5.20	24.0	UD	40	24.0	92.4	11/19/25 19:52	VL111925
75-27-4	Bromodichloromethane	2.50	16.8	UD	40	16.8	134	11/19/25 19:52	VL111925
108-10-1	4-Methyl-2-Pentanone	6.00	24.6	JD	40	16.0	82.0	11/19/25 19:52	VL111925
108-88-3	Toluene	6.40	24.1	UD	40	24.1	75.4	11/19/25 19:52	VL111925
10061-02-6	t-1,3-Dichloropropene	6.00	27.2	UD	40	27.2	90.8	11/19/25 19:52	VL111925
10061-01-5	cis-1,3-Dichloropropene	4.40	20.0	UD	40	20.0	90.8	11/19/25 19:52	VL111925
79-00-5	1,1,2-Trichloroethane	3.20	17.5	UD	40	17.5	109	11/19/25 19:52	VL111925
124-48-1	Dibromochloromethane	3.40	29.0	UD	40	29.0	170	11/19/25 19:52	VL111925
106-93-4	1,2-Dibromoethane	3.40	26.1	UD	40	26.1	30.7	11/19/25 19:52	VL111925
127-18-4	Tetrachloroethene	9.20	62.4	D	40	4.07	8.14	11/19/25 19:52	VL111925
108-90-7	Chlorobenzene	3.10	14.3	UD	40	14.3	92.1	11/19/25 19:52	VL111925
100-41-4	Ethyl Benzene	7.60	33.0	UD	40	33.0	86.9	11/19/25 19:52	VL111925
179601-23-1	m/p-Xylene	16.4	71.2	UD	40	71.2	174	11/19/25 19:52	VL111925
95-47-6	o-Xylene	8.40	36.5	UD	40	36.5	86.9	11/19/25 19:52	VL111925
100-42-5	Styrene	6.40	27.3	UD	40	27.3	85.2	11/19/25 19:52	VL111925
75-25-2	Bromoform	1.90	19.6	UD	40	19.6	207	11/19/25 19:52	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.72	4.94	UD	40	4.94	8.24	11/19/25 19:52	VL111925
95-49-8	2-Chlorotoluene	6.80	35.2	UD	40	35.2	104	11/19/25 19:52	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	16-SG-1DL	SDG No.:	Q3626
Lab Sample ID:	Q3626-12DL	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	7.20	35.4	UD	40	35.4	98.3	11/19/25 19:52	VL111925
95-63-6	1,2,4-Trimethylbenzene	7.20	35.4	UD	40	35.4	98.3	11/19/25 19:52	VL111925
541-73-1	1,3-Dichlorobenzene	2.20	13.2	UD	40	13.2	120	11/19/25 19:52	VL111925
106-46-7	1,4-Dichlorobenzene	5.20	31.3	UD	40	31.3	120	11/19/25 19:52	VL111925
95-50-1	1,2-Dichlorobenzene	5.20	31.3	UD	40	31.3	120	11/19/25 19:52	VL111925
120-82-1	1,2,4-Trichlorobenzene	8.40	62.4	UD	40	62.4	148	11/19/25 19:52	VL111925
87-68-3	Hexachloro-1,3-Butadiene	5.20	55.5	UD	40	55.5	213	11/19/25 19:52	VL111925
106-99-0	1,3-Butadiene	2.00	4.42	UD	40	4.42	44.3	11/19/25 19:52	VL111925
91-20-3	Naphthalene	0.52	2.73	UD	40	2.73	21.0	11/19/25 19:52	VL111925
622-96-8	4-Ethyltoluene	8.40	41.3	UD	40	41.3	98.3	11/19/25 19:52	VL111925
110-54-3	Hexane	6.40	22.6	UD	40	22.6	70.5	11/19/25 19:52	VL111925
107-05-1	Allyl Chloride	4.40	13.8	UD	40	13.8	62.6	11/19/25 19:52	VL111925
123-91-1	1,4-Dioxane	10.3	37.1	JD	40	31.7	72.1	11/19/25 19:52	VL111925
80-62-6	Methyl Methacrylate	5.60	22.9	UD	40	22.9	81.9	11/19/25 19:52	VL111925
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	102000							
540-36-3	1,4-Difluorobenzene	282000							
3114-55-4	Chlorobenzene-d5	224000							

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\VL111925\
Data File : VL043247.D
Acq On : 19 Nov 2025 19:52
Operator : SY/MD
Sample : Q3626-12DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:09:54 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-SG-1DL

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	2.780	49	102231	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.946	114	281627	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.869	117	224034	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	159151	9.691	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.900%				
Target Compounds							Qvalue
13) Ethanol	1.716	45	36573	17.273	ppbv		99
15) Acetone	1.829	43	1127186	79.361	ppbv		96
17) tert-Butyl alcohol	2.036	59	8013	0.430	ppbv	#	87
26) Hexane	2.813	57	1392m	0.104	ppbv		
34) 2-Butanone	2.554	43	9311	0.468	ppbv		96
40) 1,4-Dioxane	4.599	88	1139m	0.257	ppbv		
50) 4-Methyl-2-Pentanone	5.745	43	4169m	0.149	ppbv		
52) Tetrachloroethene	8.215	164	2304	0.230	ppbv	#	79

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

Quantitation Report (QT Reviewed)

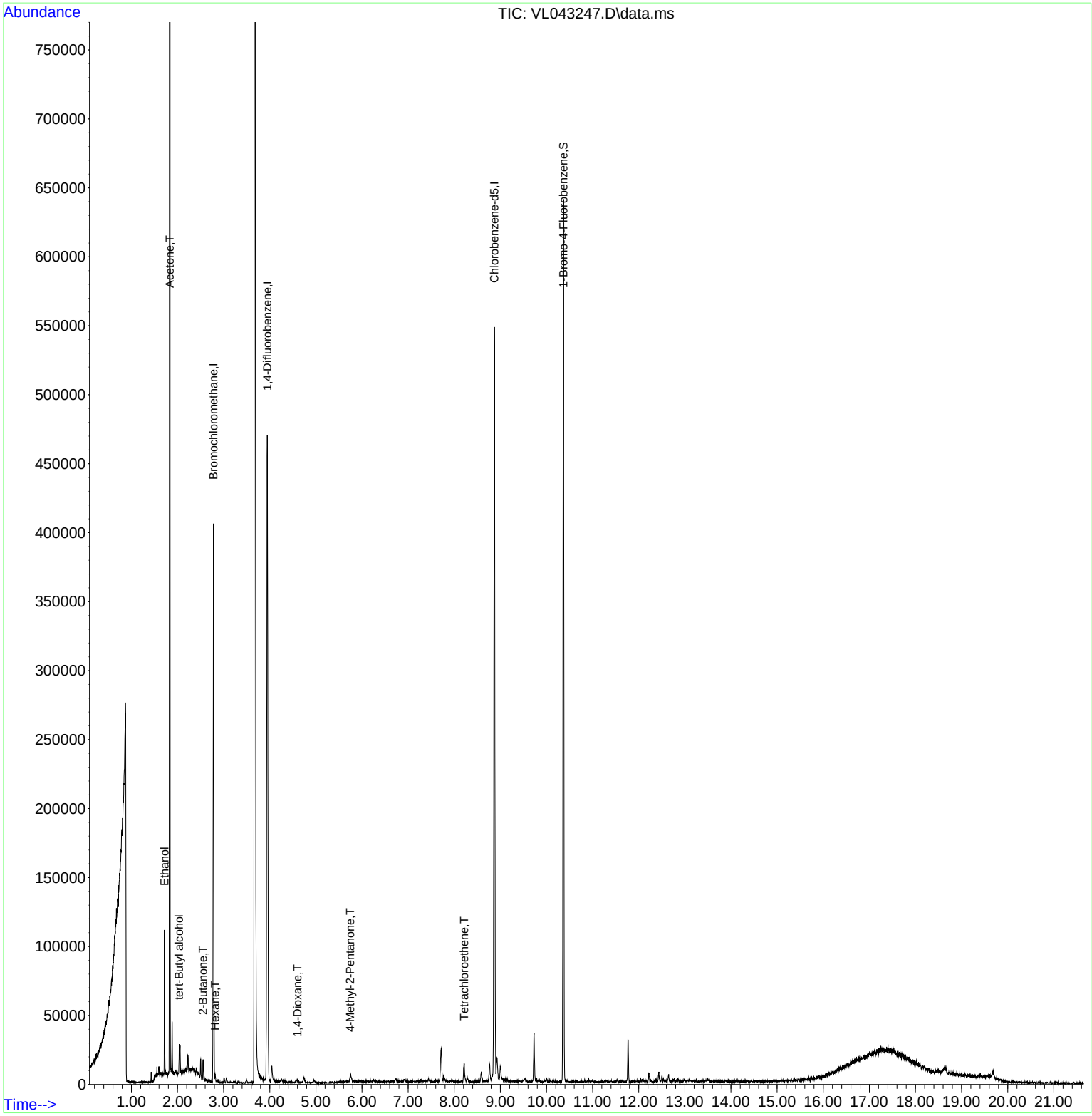
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043247.D
Acq On : 19 Nov 2025 19:52
Operator : SY/MD
Sample : Q3626-12DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

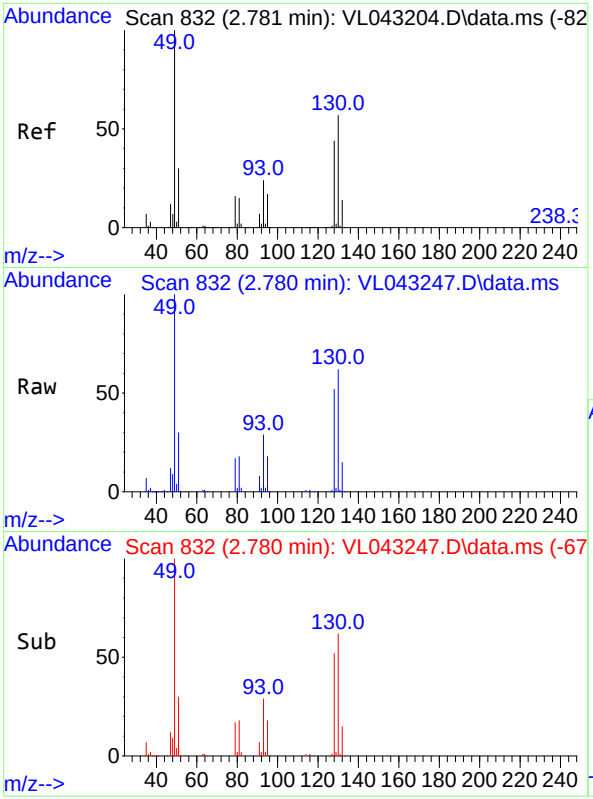
Quant Time: Nov 20 00:09:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

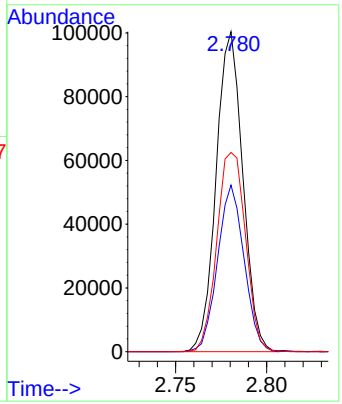




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.001 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 49 Resp: 10223

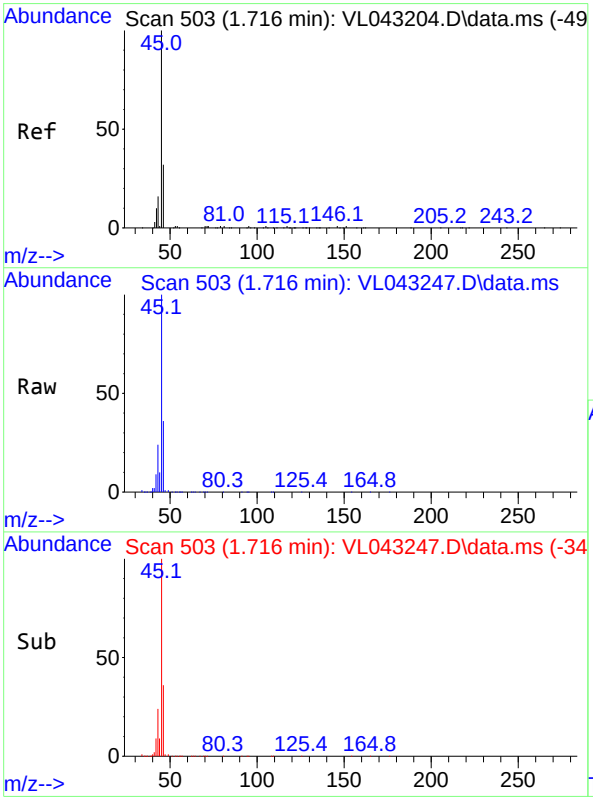
Ion	Ratio	Lower	Upper
49	100		
128	51.8	23.0	69.0
130	67.0	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Manual Integrations
APPROVED

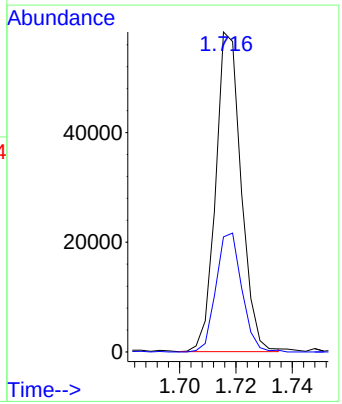
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

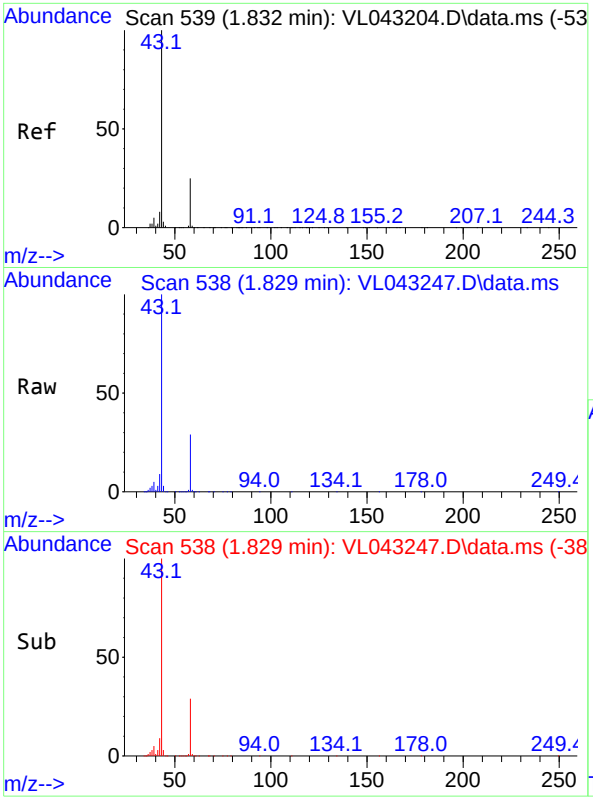


#13
Ethanol
Concen: 17.273 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 45 Resp: 36573

Ion	Ratio	Lower	Upper
45	100		
46	37.9	15.0	59.8

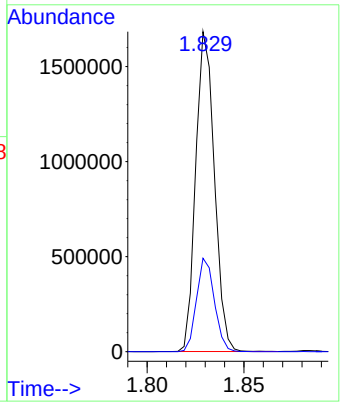




#15
Acetone
Concen: 79.361 ppbv
RT: 1.829 min Scan# 5
Delta R.T. -0.004 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 43 Resp: 112718

Ion	Ratio	Lower	Upper
43	100		
58	28.1	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Manual Integrations
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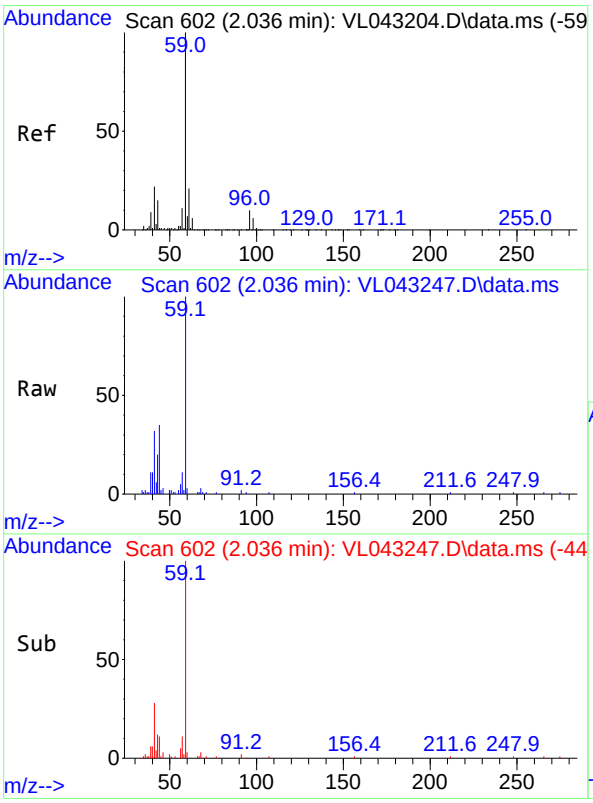
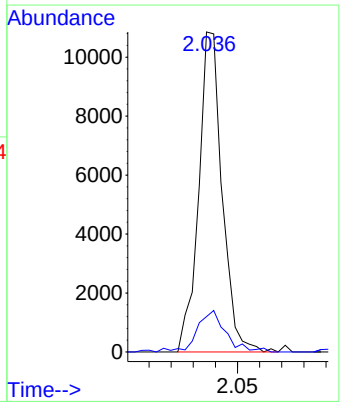
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

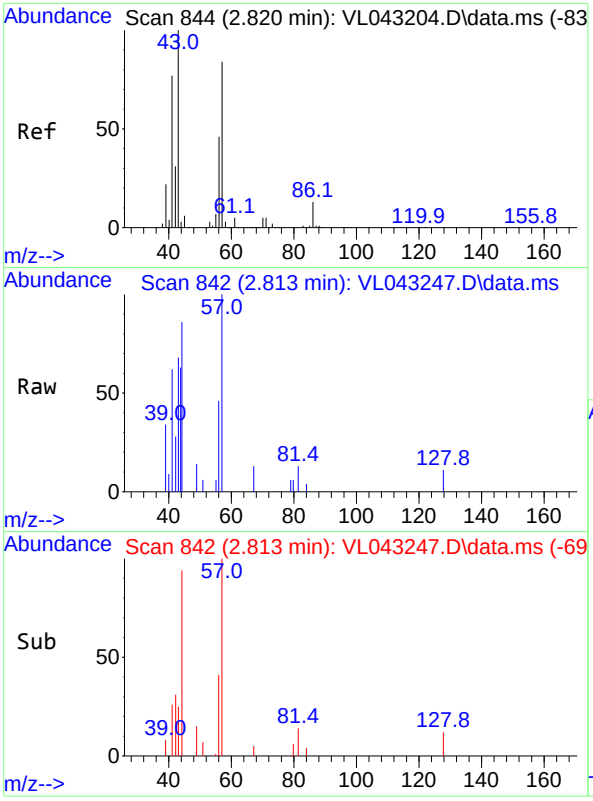


#17
tert-Butyl alcohol
Concen: 0.430 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 59 Resp: 8013

Ion	Ratio	Lower	Upper
59	100		
57	16.0	9.0	13.4#

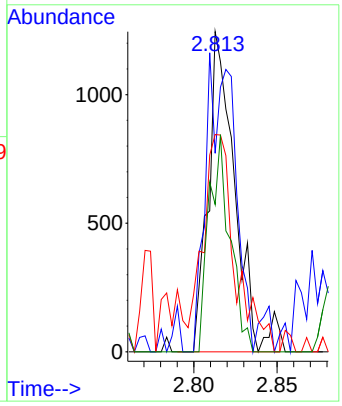




#26
Hexane
Concen: 0.104 ppbv m
RT: 2.813 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 57 Resp: 139

Ion	Ratio	Lower	Upper
57	100		
41	0.0	74.6	111.8#
43	0.0	179.0	268.4#
56	0.0	42.3	63.5#



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Manual Integrations
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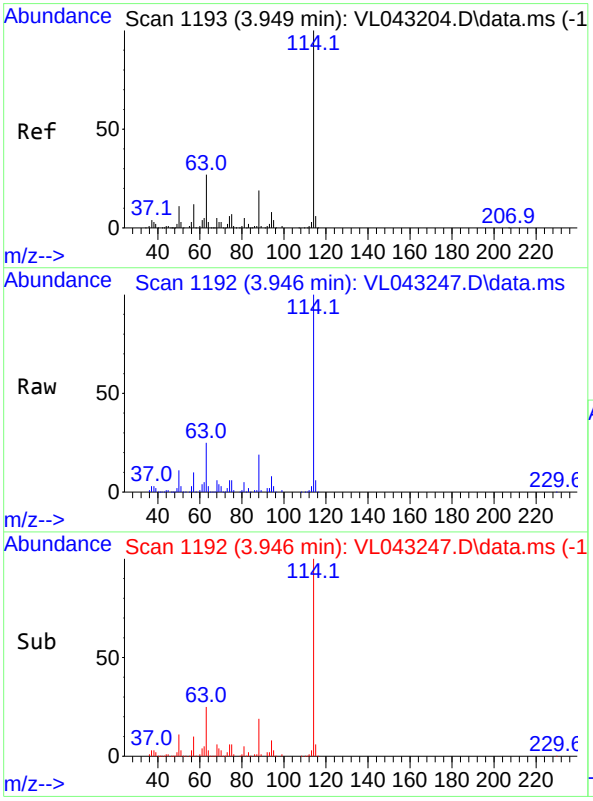
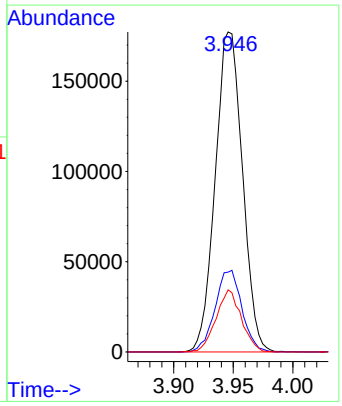
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

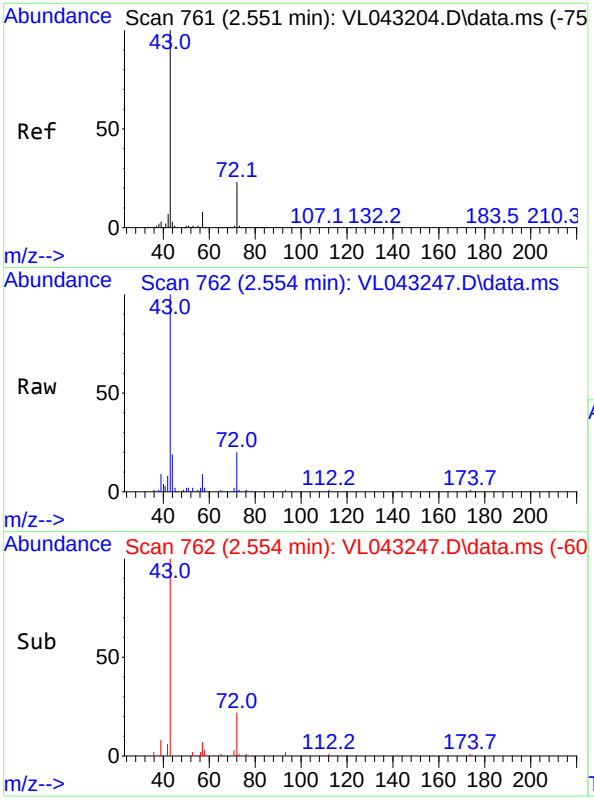


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.004 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion:114 Resp: 281627

Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.0	31.6
88	18.0	14.9	22.3

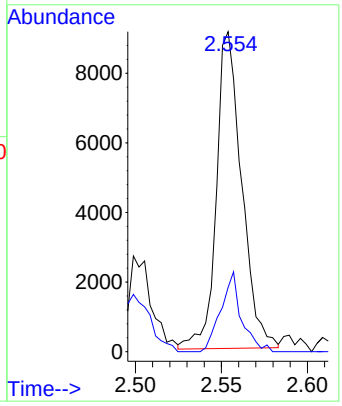




#34
2-Butanone
Concen: 0.468 ppbv
RT: 2.554 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 43 Resp: 931

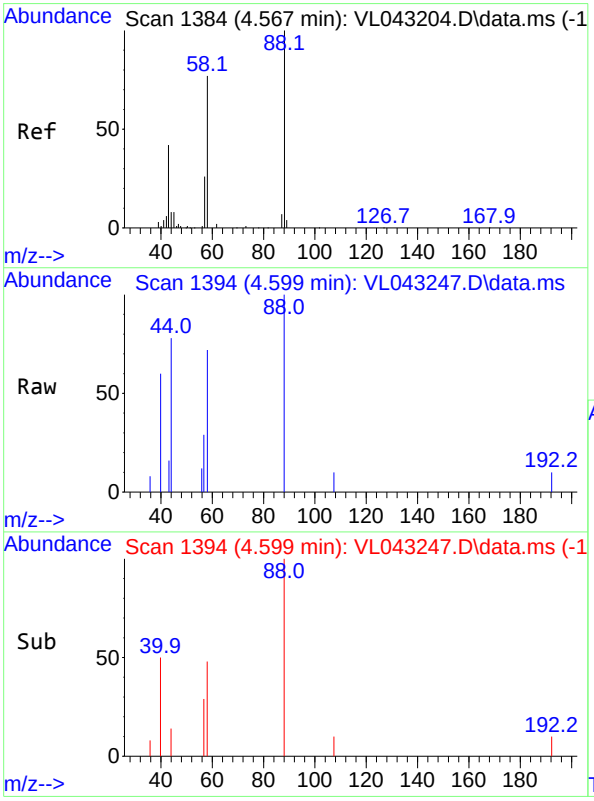
Ion	Ratio	Lower	Upper
43	100		
72	20.5	18.1	27.1



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Manual Integrations
APPROVED

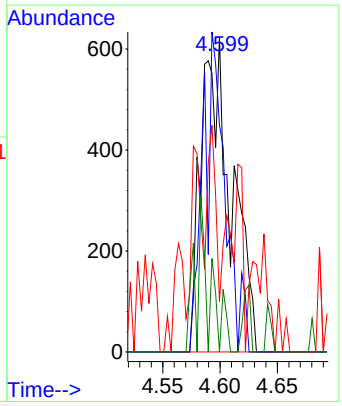
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

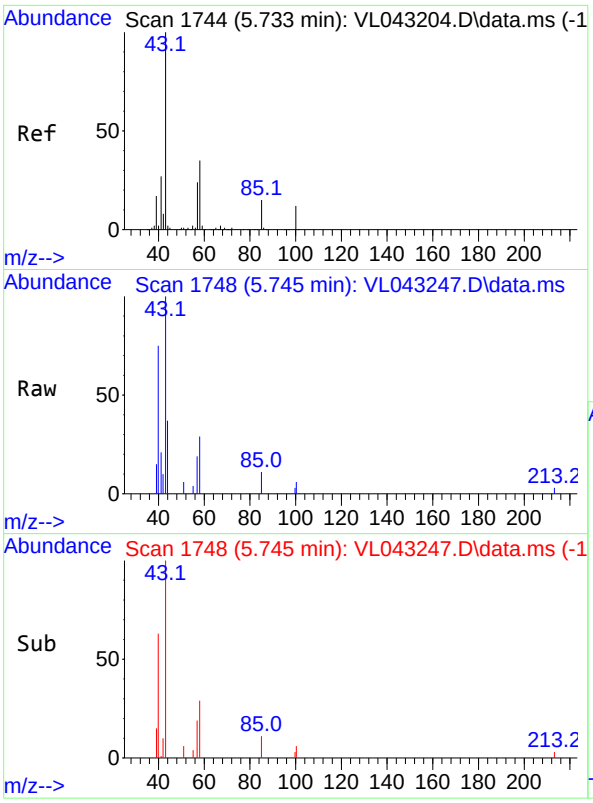


#40
1,4-Dioxane
Concen: 0.257 ppbv m
RT: 4.599 min Scan# 1394
Delta R.T. 0.032 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 88 Resp: 1139

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

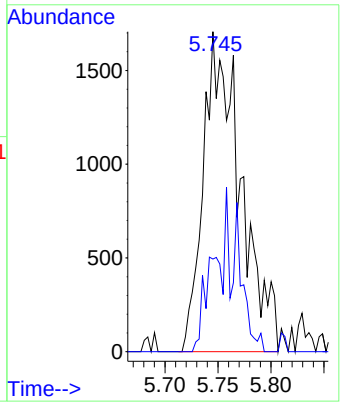




#50
4-Methyl-2-Pentanone
Concen: 0.149 ppbv m
RT: 5.745 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 43 Resp: 416

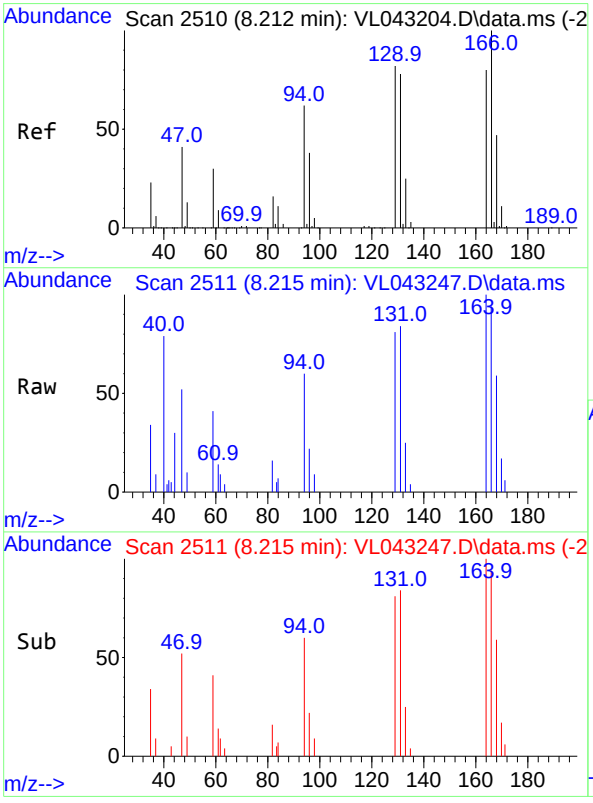
Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Manual Integrations
APPROVED

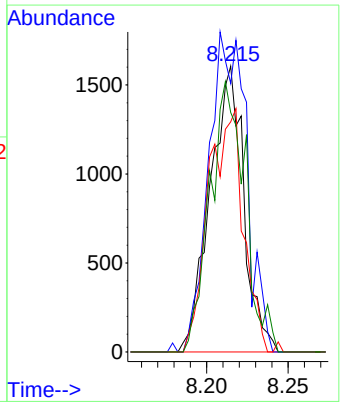
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

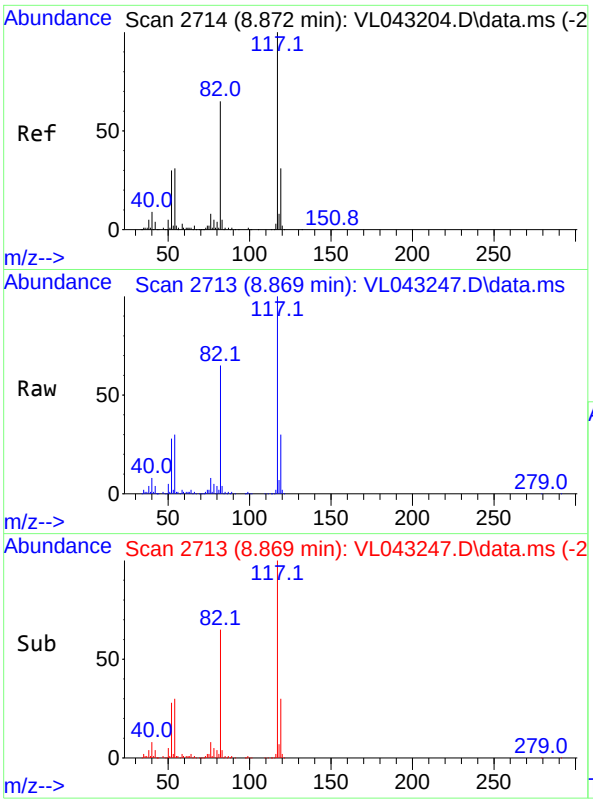


#52
Tetrachloroethene
Concen: 0.230 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion:164 Resp: 2304

Ion	Ratio	Lower	Upper
164	100		
166	94.0	99.4	149.2#
129	80.5	81.8	122.8#
131	83.8	77.4	116.2

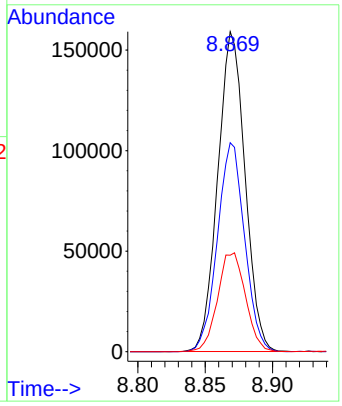




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. -0.004 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion:117 Resp: 22403

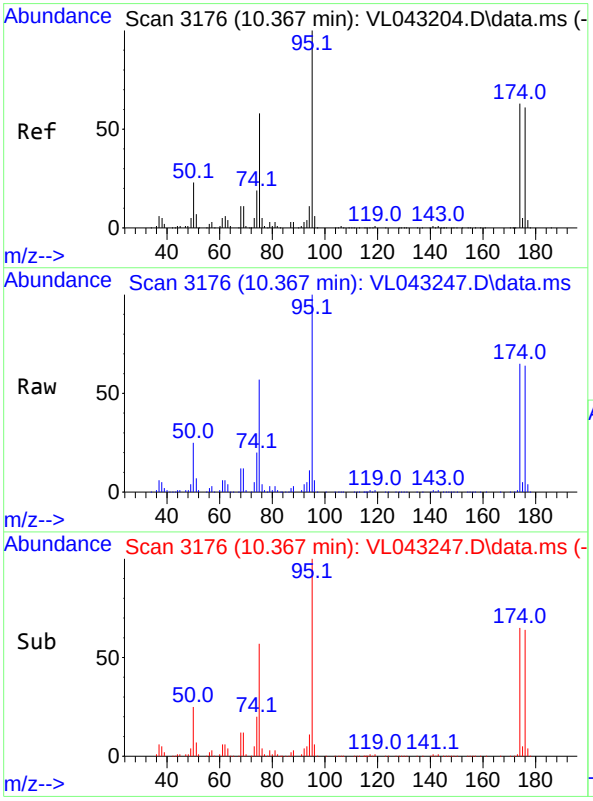
Ion	Ratio	Lower	Upper
117	100		
82	65.2	56.1	84.1
119	31.8	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Manual Integrations
APPROVED

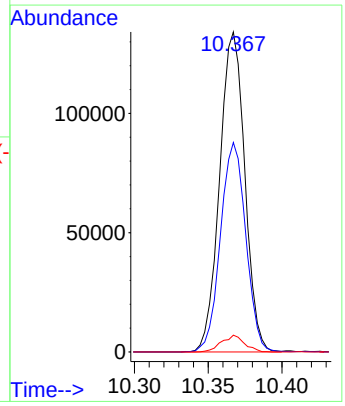
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.691 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 95 Resp: 159151

Ion	Ratio	Lower	Upper
95	100		
174	66.1	50.2	75.2
175	4.8	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:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	16-SG-1DL2	SDG No.:	Q3626
Lab Sample ID:	Q3626-12DL2	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	66.0	326	UD	600	326	1480	11/20/25 07:35	VL111925
74-87-3	Chloromethane	58.8	121	UD	600	121	620	11/20/25 07:35	VL111925
75-01-4	Vinyl Chloride	15.0	38.3	UD	600	38.3	46.0	11/20/25 07:35	VL111925
74-83-9	Bromomethane	46.2	179	UD	600	179	1160	11/20/25 07:35	VL111925
75-00-3	Chloroethane	90.0	238	UD	600	238	792	11/20/25 07:35	VL111925
109-99-9	Tetrahydrofuran	48.0	142	UD	600	142	885	11/20/25 07:35	VL111925
75-69-4	Trichlorofluoromethane	100	562	UD	600	562	1690	11/20/25 07:35	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	84.0	644	UD	600	644	2300	11/20/25 07:35	VL111925
76-14-2	Dichlorotetrafluoroethane	90.0	629	UD	600	629	2100	11/20/25 07:35	VL111925
75-65-0	tert-Butyl alcohol	96.0	291	UD	600	291	909	11/20/25 07:35	VL111925
142-82-5	Heptane	100	410	UD	600	410	1230	11/20/25 07:35	VL111925
75-35-4	1,1-Dichloroethene	90.0	357	UD	600	357	1190	11/20/25 07:35	VL111925
67-64-1	Acetone	4000	9500	D	600	261	713	11/20/25 07:35	VL111925
75-15-0	Carbon Disulfide	48.0	149	UD	600	149	934	11/20/25 07:35	VL111925
1634-04-4	Methyl tert-Butyl Ether	140	505	UD	600	505	1080	11/20/25 07:35	VL111925
75-09-2	Methylene Chloride	140	486	UD	600	486	1040	11/20/25 07:35	VL111925
156-60-5	trans-1,2-Dichloroethene	72.0	285	UD	600	285	1190	11/20/25 07:35	VL111925
75-34-3	1,1-Dichloroethane	78.0	316	UD	600	316	1210	11/20/25 07:35	VL111925
110-82-7	Cyclohexane	130	447	UD	600	447	1030	11/20/25 07:35	VL111925
78-93-3	2-Butanone	33.6	99.1	UD	600	99.1	885	11/20/25 07:35	VL111925
56-23-5	Carbon Tetrachloride	15.0	94.4	UD	600	94.4	113	11/20/25 07:35	VL111925
156-59-2	cis-1,2-Dichloroethene	59.4	236	UD	600	236	1190	11/20/25 07:35	VL111925
67-66-3	Chloroform	57.6	281	UD	600	281	1470	11/20/25 07:35	VL111925
71-55-6	1,1,1-Trichloroethane	9.60	52.4	UD	600	52.4	98.2	11/20/25 07:35	VL111925
540-84-1	2,2,4-Trimethylpentane	84.0	392	UD	600	392	1400	11/20/25 07:35	VL111925
71-43-2	Benzene	47.4	151	UD	600	151	958	11/20/25 07:35	VL111925
107-06-2	1,2-Dichloroethane	55.8	226	UD	600	226	1210	11/20/25 07:35	VL111925
79-01-6	Trichloroethene	14.4	77.4	UD	600	77.4	96.7	11/20/25 07:35	VL111925
78-87-5	1,2-Dichloropropane	78.0	360	UD	600	360	1390	11/20/25 07:35	VL111925
75-27-4	Bromodichloromethane	37.8	253	UD	600	253	2010	11/20/25 07:35	VL111925
108-10-1	4-Methyl-2-Pentanone	58.2	239	UD	600	239	1230	11/20/25 07:35	VL111925
108-88-3	Toluene	96.0	362	UD	600	362	1130	11/20/25 07:35	VL111925
10061-02-6	t-1,3-Dichloropropene	90.0	409	UD	600	409	1360	11/20/25 07:35	VL111925
10061-01-5	cis-1,3-Dichloropropene	66.0	300	UD	600	300	1360	11/20/25 07:35	VL111925
79-00-5	1,1,2-Trichloroethane	48.6	265	UD	600	265	1640	11/20/25 07:35	VL111925
124-48-1	Dibromochloromethane	51.0	434	UD	600	434	2560	11/20/25 07:35	VL111925
106-93-4	1,2-Dibromoethane	51.0	392	UD	600	392	461	11/20/25 07:35	VL111925
127-18-4	Tetrachloroethene	9.00	61.0	UD	600	61.0	122	11/20/25 07:35	VL111925
108-90-7	Chlorobenzene	46.2	213	UD	600	213	1380	11/20/25 07:35	VL111925
100-41-4	Ethyl Benzene	110	478	UD	600	478	1300	11/20/25 07:35	VL111925
179601-23-1	m/p-Xylene	250	1090	UD	600	1090	2610	11/20/25 07:35	VL111925
95-47-6	o-Xylene	130	565	UD	600	565	1300	11/20/25 07:35	VL111925
100-42-5	Styrene	96.0	409	UD	600	409	1280	11/20/25 07:35	VL111925
75-25-2	Bromoform	28.8	298	UD	600	298	3100	11/20/25 07:35	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	10.8	74.2	UD	600	74.2	124	11/20/25 07:35	VL111925
95-49-8	2-Chlorotoluene	100	518	UD	600	518	1550	11/20/25 07:35	VL111925

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	CHADWICK SQUARE	Date Received:	11/12/25
Client Sample ID:	16-SG-1DL2	SDG No.:	Q3626
Lab Sample ID:	Q3626-12DL2	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	110	541	UD	600	541	1470	11/20/25 07:35	VL111925
95-63-6	1,2,4-Trimethylbenzene	110	541	UD	600	541	1470	11/20/25 07:35	VL111925
541-73-1	1,3-Dichlorobenzene	32.4	195	UD	600	195	1800	11/20/25 07:35	VL111925
106-46-7	1,4-Dichlorobenzene	78.0	469	UD	600	469	1800	11/20/25 07:35	VL111925
95-50-1	1,2-Dichlorobenzene	78.0	469	UD	600	469	1800	11/20/25 07:35	VL111925
120-82-1	1,2,4-Trichlorobenzene	130	965	UD	600	965	2230	11/20/25 07:35	VL111925
87-68-3	Hexachloro-1,3-Butadiene	78.0	832	UD	600	832	3200	11/20/25 07:35	VL111925
106-99-0	1,3-Butadiene	30.6	67.7	UD	600	67.7	664	11/20/25 07:35	VL111925
91-20-3	Naphthalene	7.80	40.9	UD	600	40.9	315	11/20/25 07:35	VL111925
622-96-8	4-Ethyltoluene	130	639	UD	600	639	1470	11/20/25 07:35	VL111925
110-54-3	Hexane	96.0	338	UD	600	338	1060	11/20/25 07:35	VL111925
107-05-1	Allyl Chloride	66.0	207	UD	600	207	939	11/20/25 07:35	VL111925
123-91-1	1,4-Dioxane	130	469	UD	600	469	1080	11/20/25 07:35	VL111925
80-62-6	Methyl Methacrylate	84.0	344	UD	600	344	1230	11/20/25 07:35	VL111925
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	101000							
540-36-3	1,4-Difluorobenzene	272000							
3114-55-4	Chlorobenzene-d5	204000							

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\VL111925\
Data File : VL043254.D
Acq On : 20 Nov 2025 07:35
Operator : SY/MD
Sample : Q3626-12DL2 600X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL2

Quant Time: Nov 21 00:09:23 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

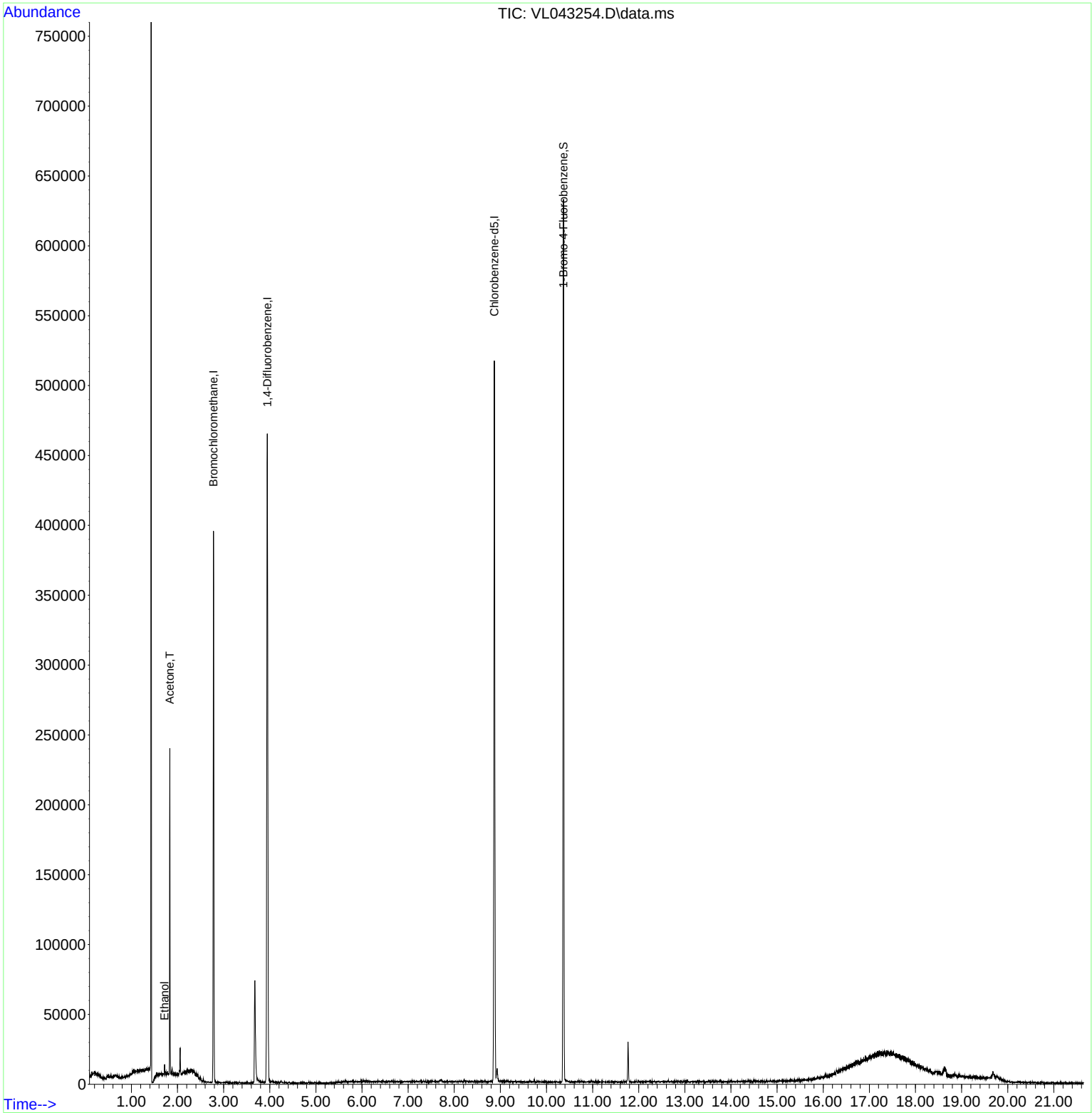
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.780	49	101416	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	271635	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	204048	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	146628	9.803	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.000%			
Target Compounds						Qvalue
13) Ethanol	1.719	45	2715	1.293	ppbv	70
15) Acetone	1.832	43	94950	6.739	ppbv	99

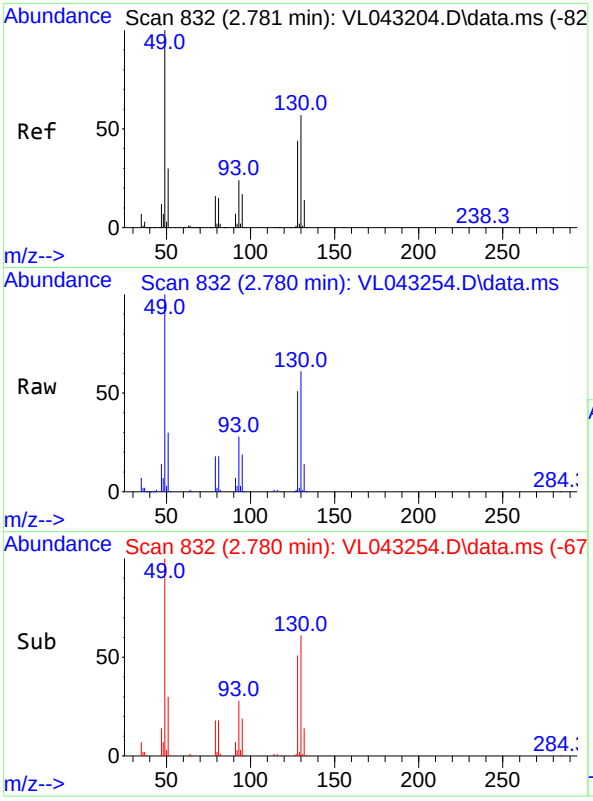
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043254.D
Acq On : 20 Nov 2025 07:35
Operator : SY/MD
Sample : Q3626-12DL2 600X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL2

Quant Time: Nov 21 00:09:23 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



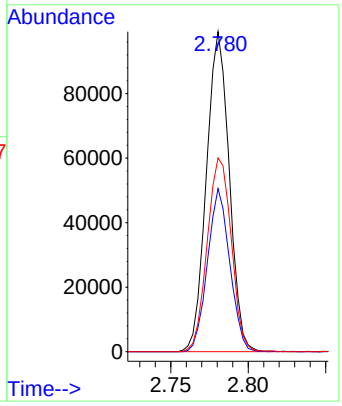


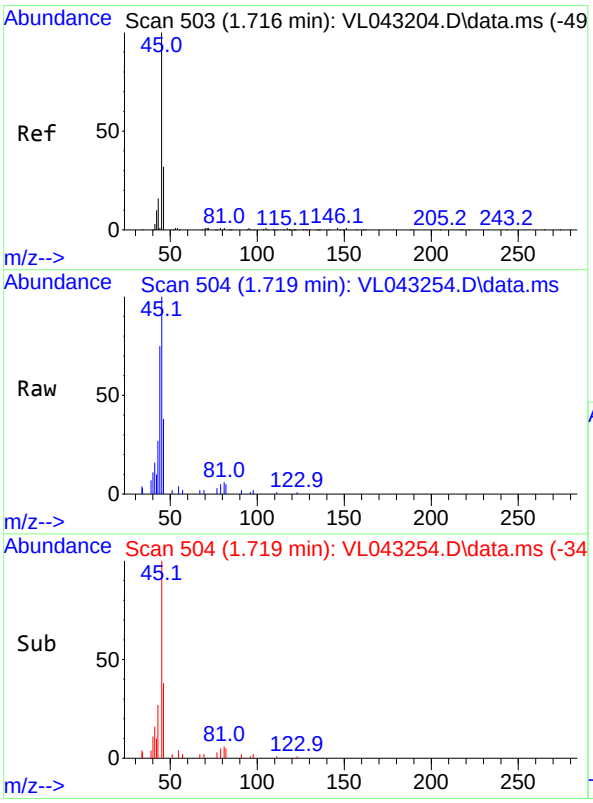
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.001 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL2

Tgt Ion: 49 Resp: 101416

Ion	Ratio	Lower	Upper
49	100		
128	49.7	23.0	69.0
130	63.9	29.9	89.7

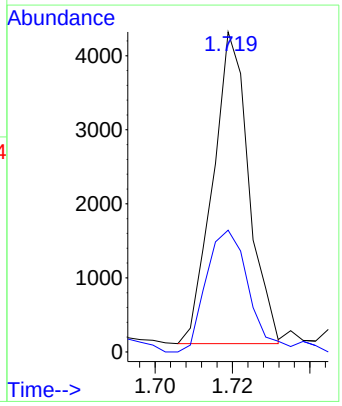


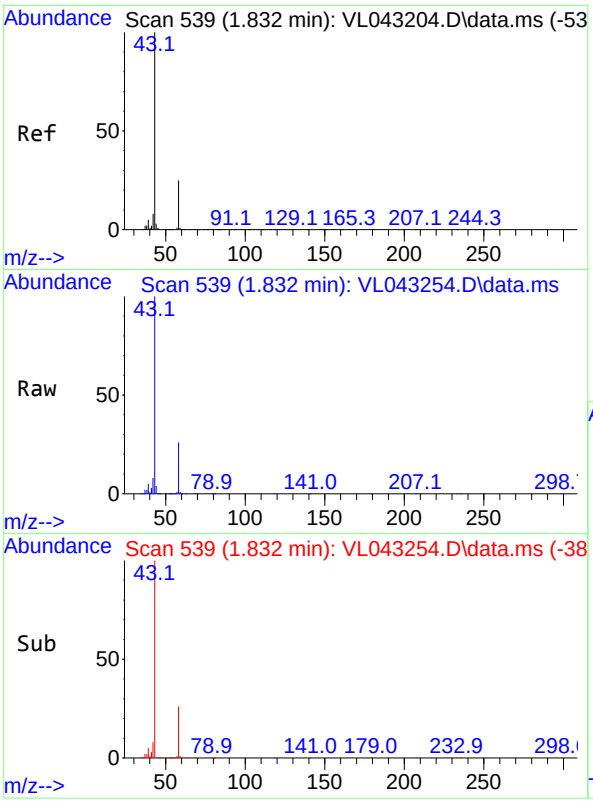


#13
Ethanol
Concen: 1.293 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

Tgt Ion: 45 Resp: 2715

Ion	Ratio	Lower	Upper
45	100		
46	55.6	15.0	59.8



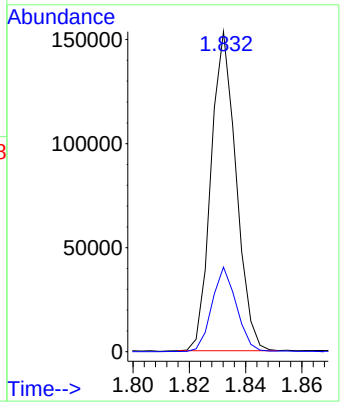


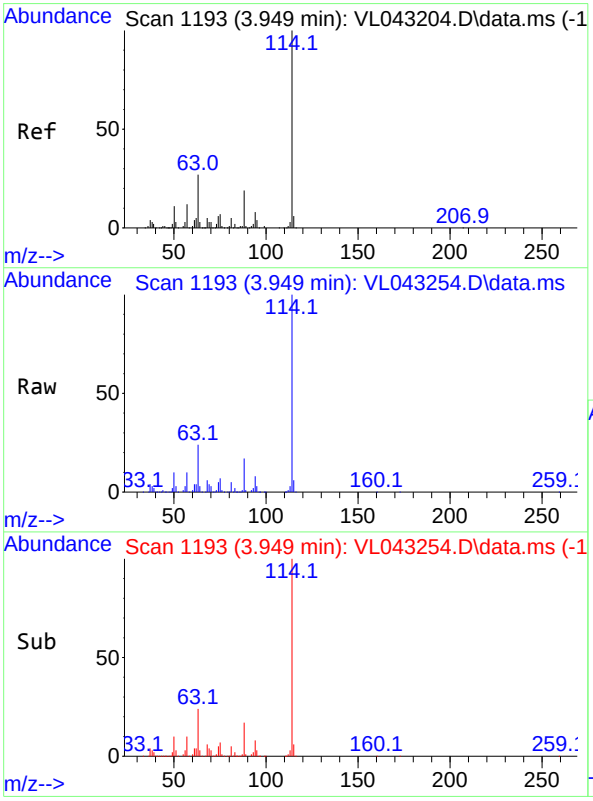
#15
Acetone
Concen: 6.739 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL2

Tgt Ion: 43 Resp: 94950

Ion	Ratio	Lower	Upper
43	100		
58	26.2	20.7	31.1

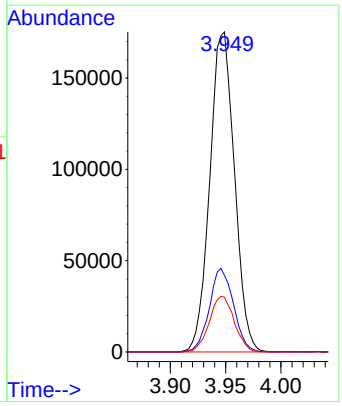


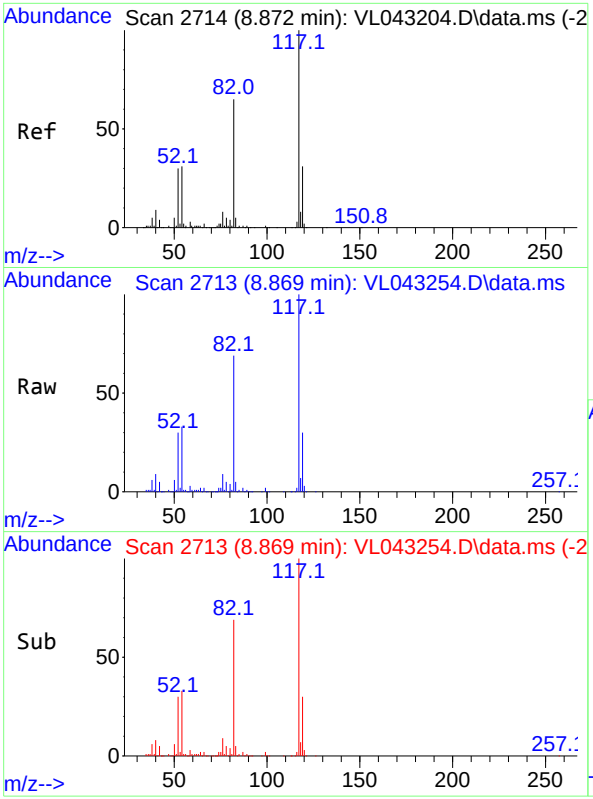


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

Tgt Ion:114 Resp: 271635

Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.0	31.6
88	17.6	14.9	22.3



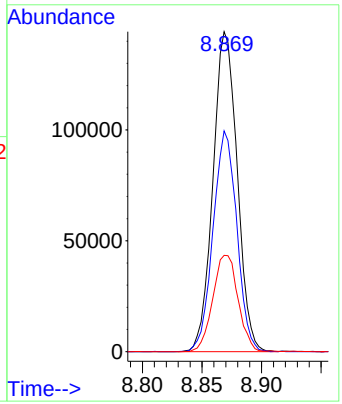


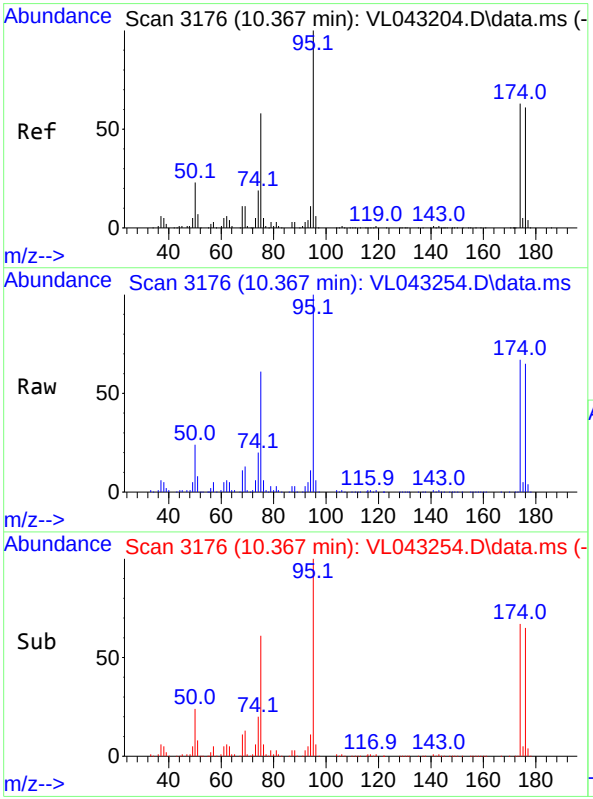
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. -0.004 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL2

Tgt Ion:117 Resp: 204048

Ion	Ratio	Lower	Upper
117	100		
82	67.7	56.1	84.1
119	31.6	25.0	37.6

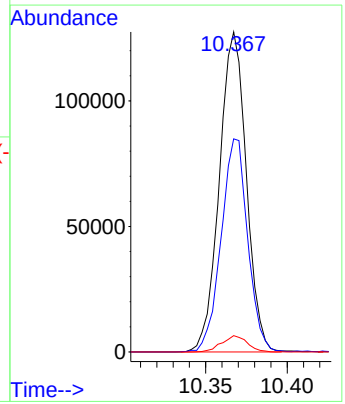




#68
1-Bromo-4-Fluorobenzene
Concen: 9.803 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

Tgt Ion: 95 Resp: 146628

Ion	Ratio	Lower	Upper
95	100		
174	65.9	50.2	75.2
175	4.8	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

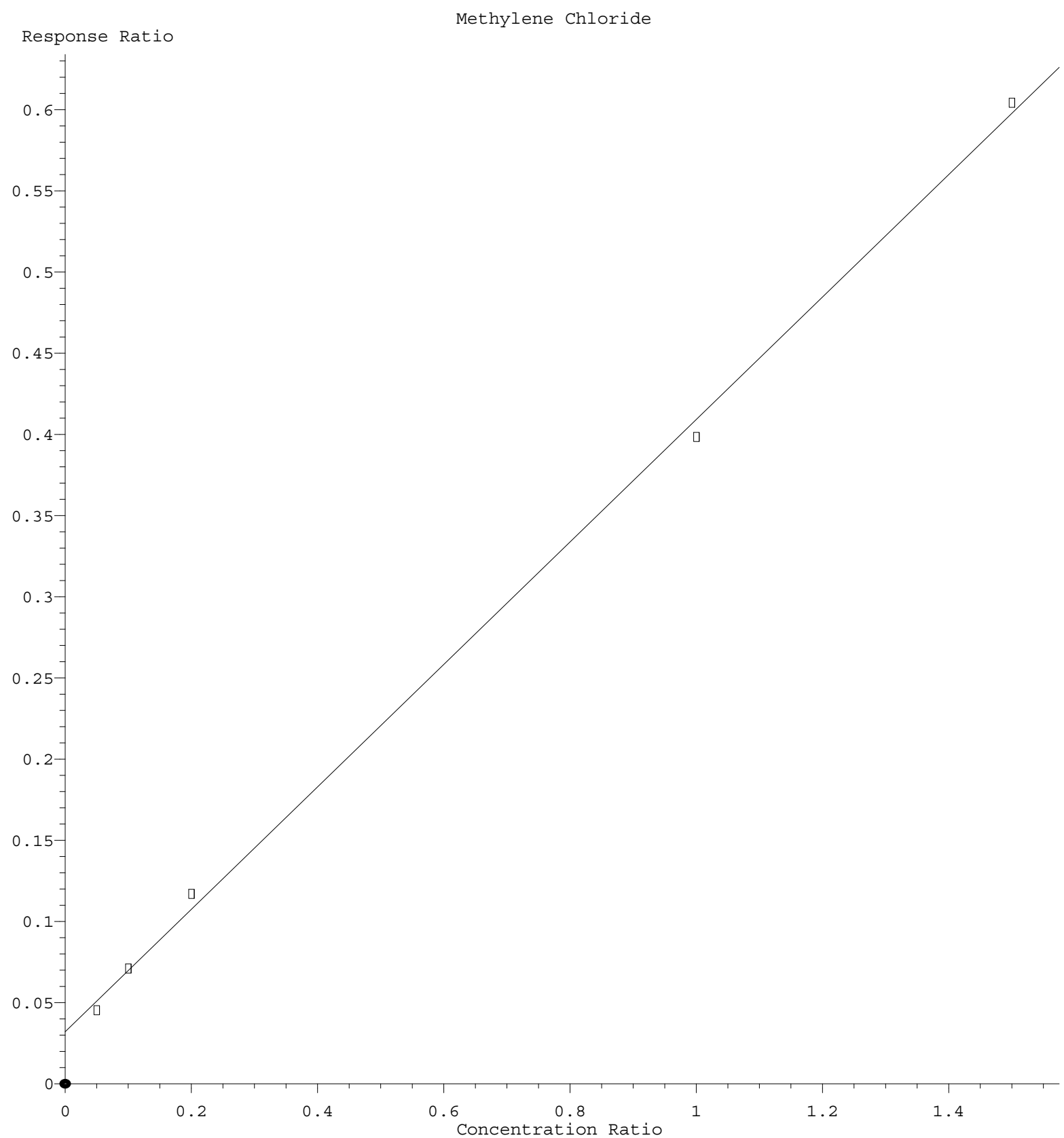
		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.398	1.505	1.476	1.340	1.334	1.410	5.53
3)		Chlorodifluoro...			1.545	1.404	1.437	1.317	1.231	1.387	8.60
4)		Chloromethane			0.521	0.559	0.568	0.498	0.489	0.527	6.72
5)	T	Vinyl 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: 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

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

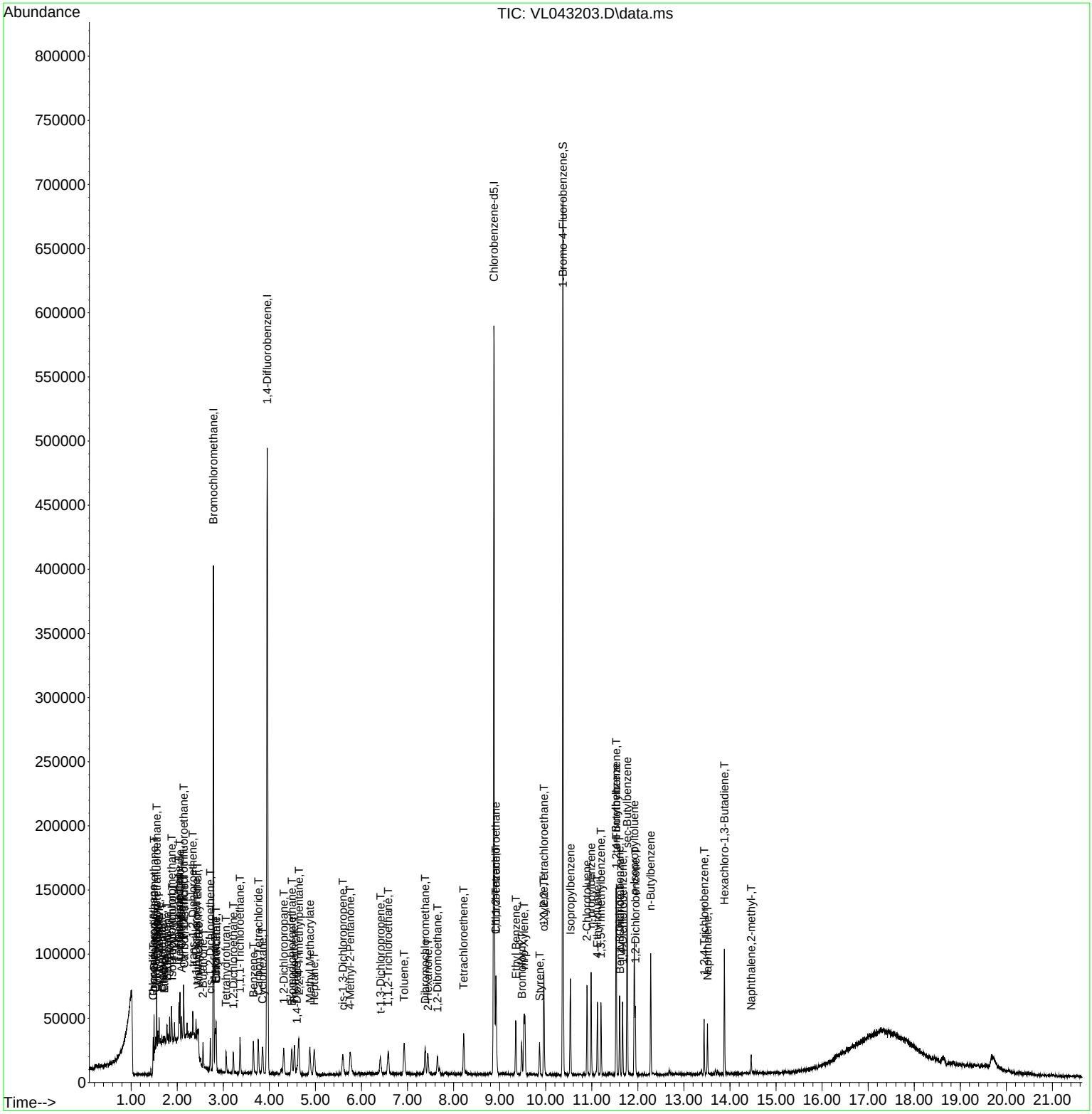
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043203.D
Acq On : 18 Nov 2025 09:29
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

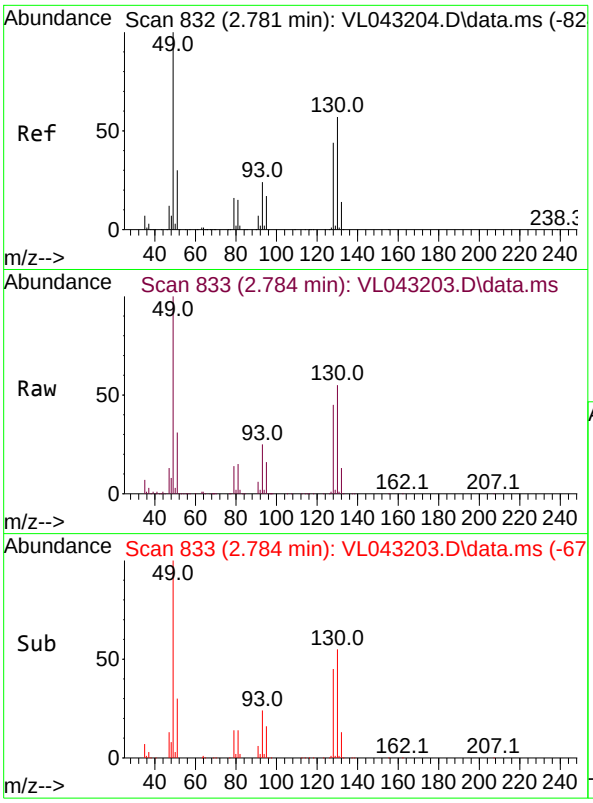
Quant Time: Nov 19 00:48:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

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

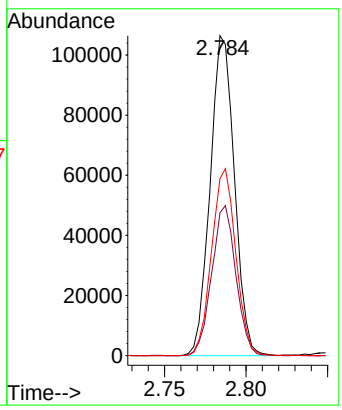




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 49 Resp: 11049

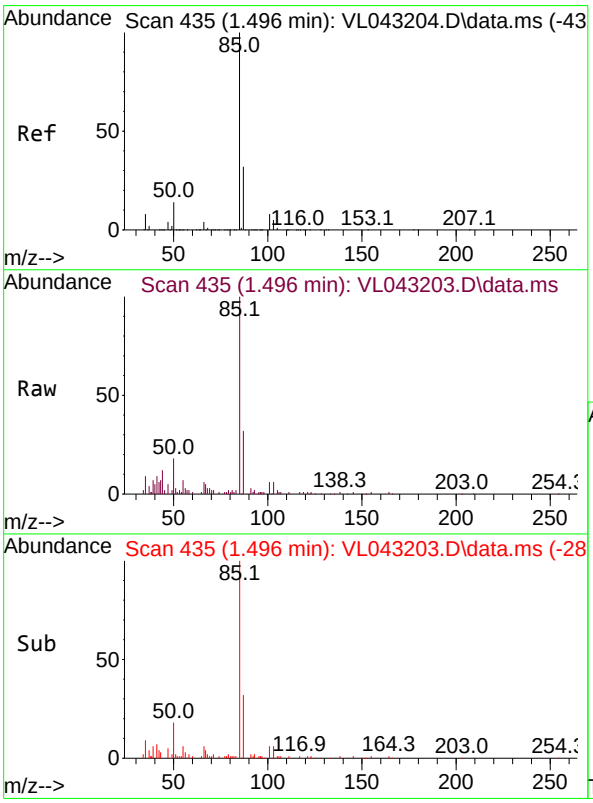
Ion	Ratio	Lower	Upper
49	100		
128	46.6	23.0	69.0
130	58.4	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

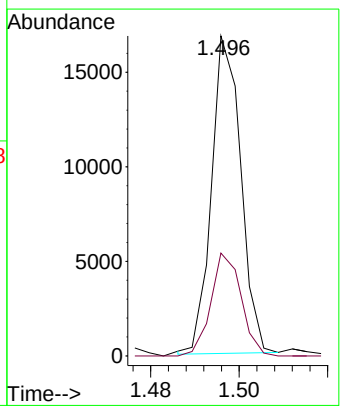
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

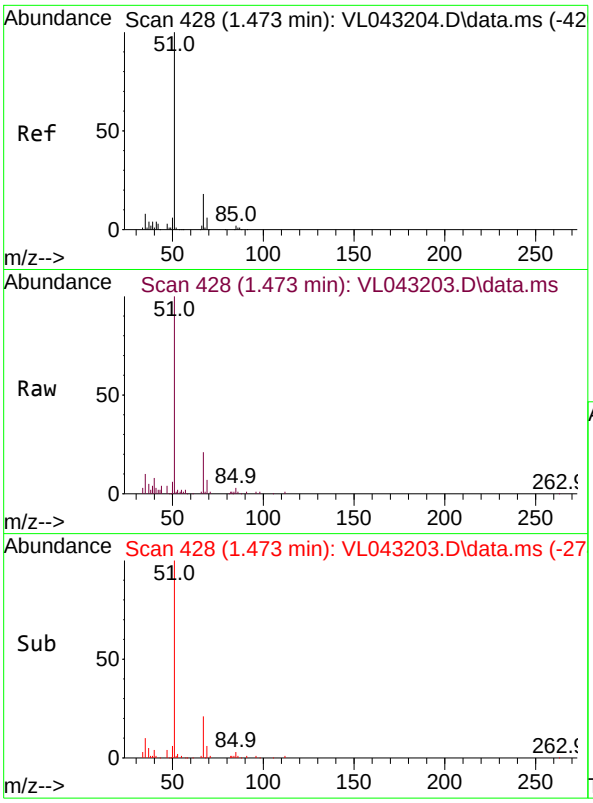


#2
Dichlorodifluoromethane
Concen: 0.496 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 85 Resp: 7723

Ion	Ratio	Lower	Upper
85	100		
87	32.5	25.4	38.2

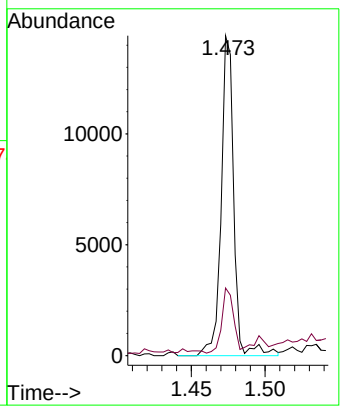




#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 51 Resp: 853

Ion	Ratio	Lower	Upper
51	100		
67	26.4	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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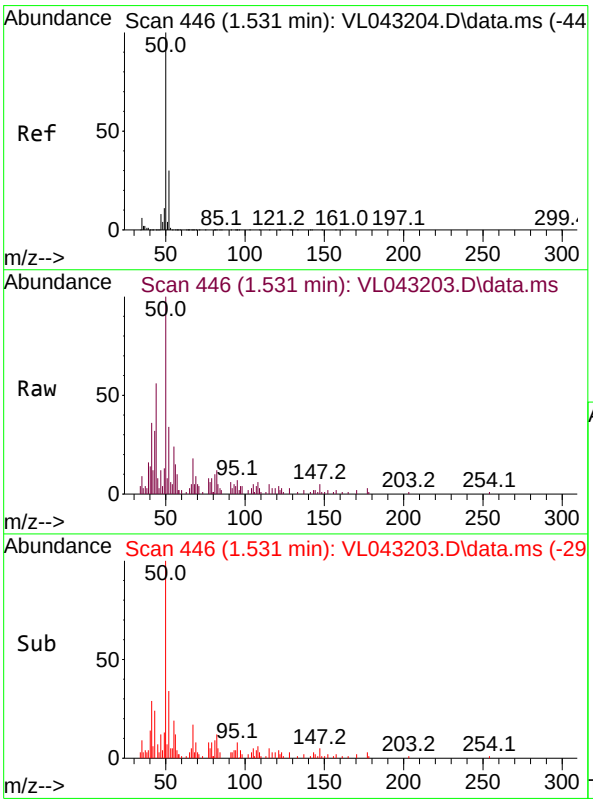
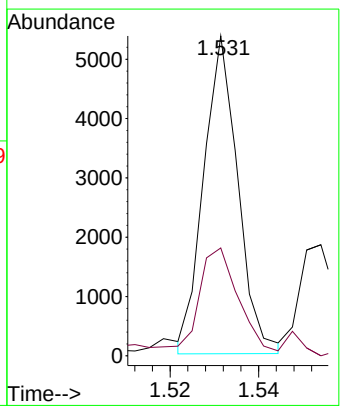
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

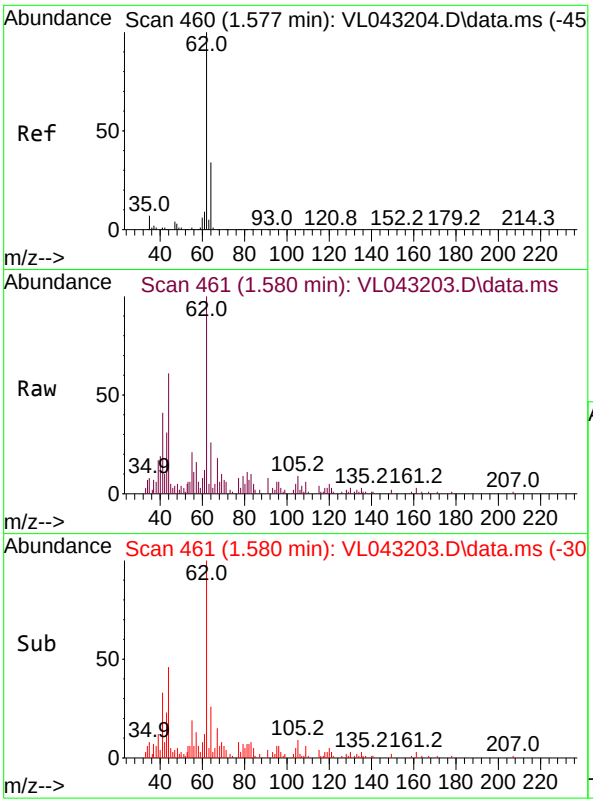


#4
Chloromethane
Concen: 0.494 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 50 Resp: 2881

Ion	Ratio	Lower	Upper
50	100		
52	33.5	24.1	36.1

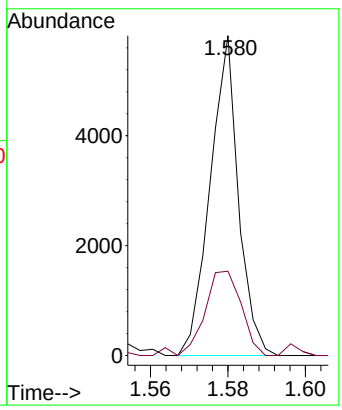




#5
Vinyl Chloride
Concen: 0.462 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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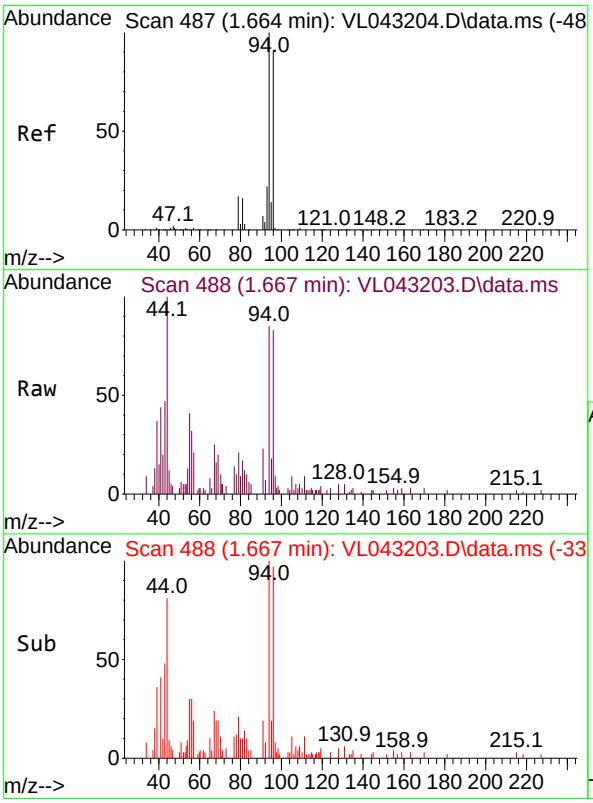
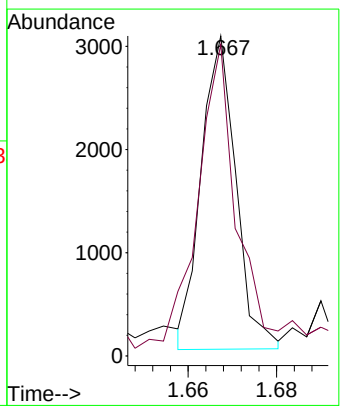
Supervised By :Mahesh Dadoda 11/19/2025

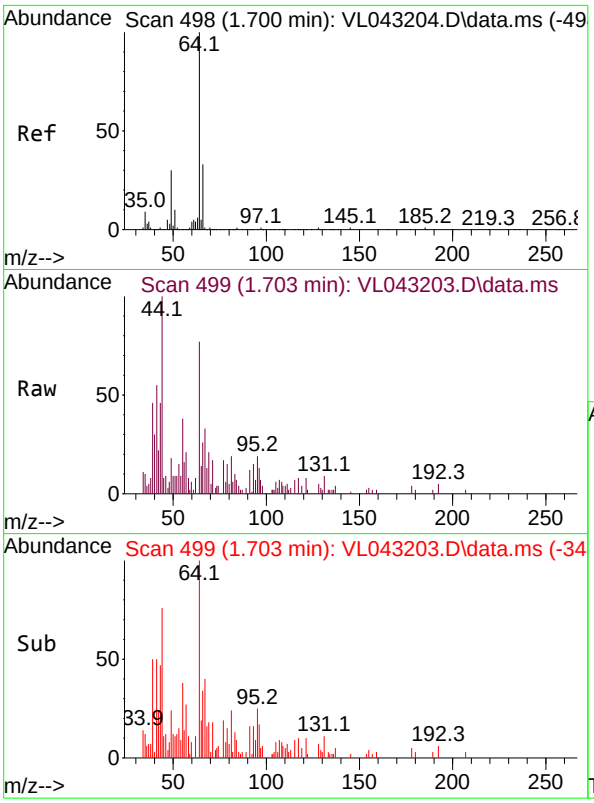


#6
Bromomethane
Concen: 0.536 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 94 Resp: 1656

Ion	Ratio	Lower	Upper
94	100		
96	93.9	72.9	109.3

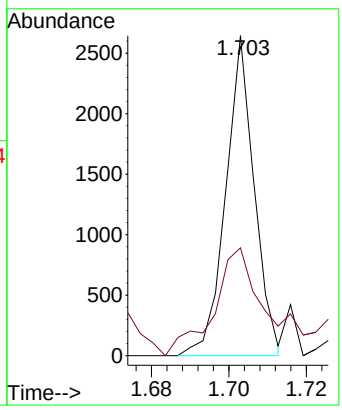




#7
Chloroethane
Concen: 0.547 ppbv
RT: 1.703 min Scan# 49
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 64 Resp: 135

Ion	Ratio	Lower	Upper
64	100		
66	33.7	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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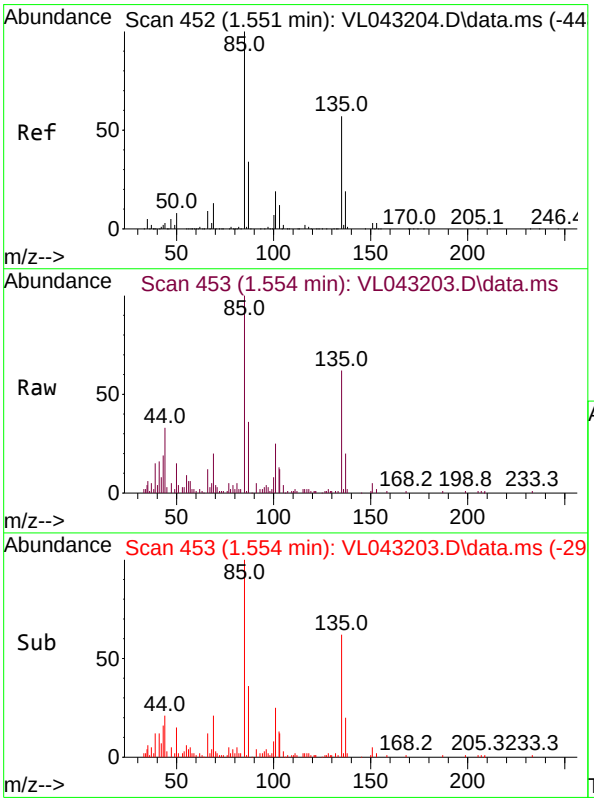
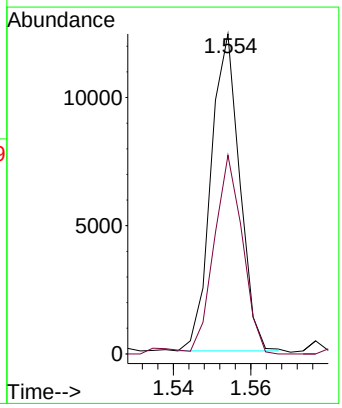
Supervised By :Mahesh Dadoda 11/19/2025

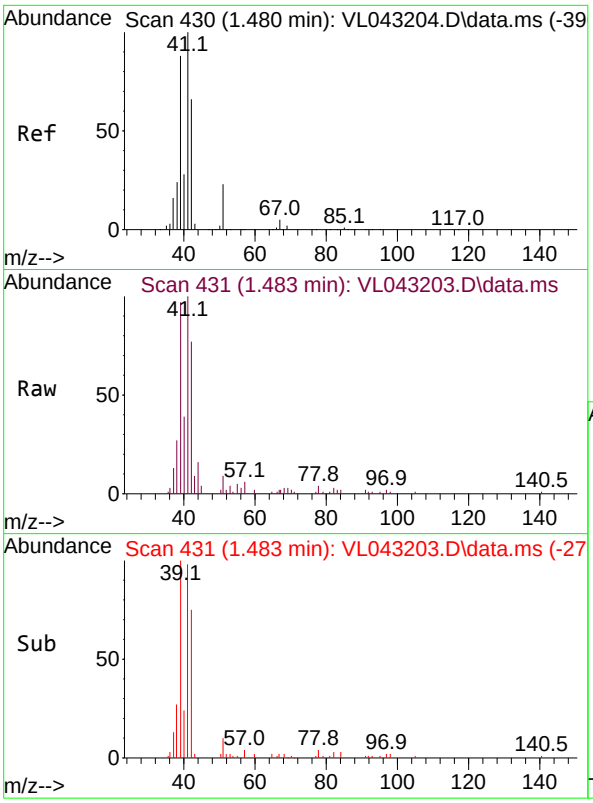


#8
Dichlorotetrafluoroethane
Concen: 0.493 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 85 Resp: 6386

Ion	Ratio	Lower	Upper
85	100		
135	65.8	52.6	79.0

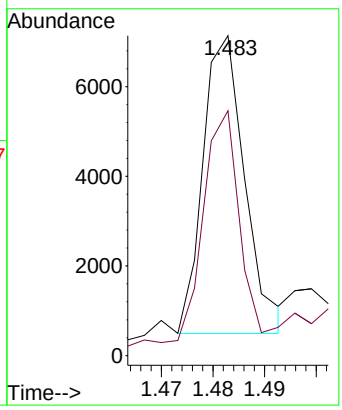




#9
Propene
Concen: 0.526 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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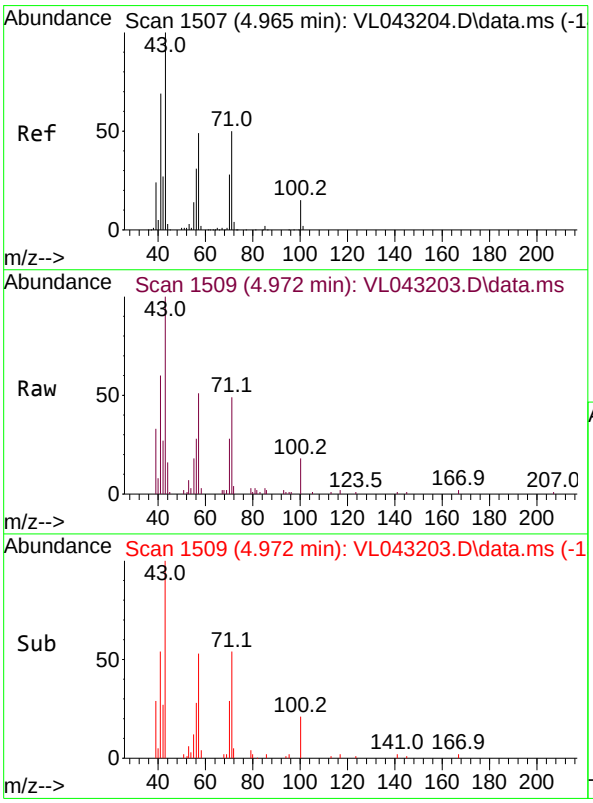
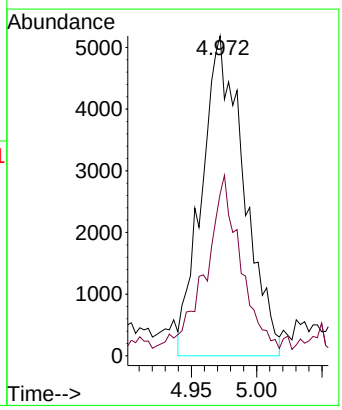
Supervised By :Mahesh Dadoda 11/19/2025

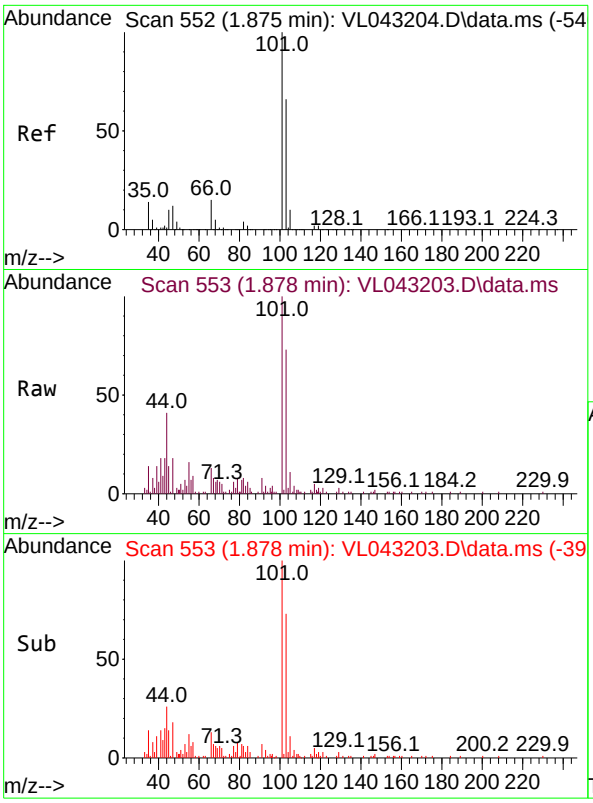


#10
Heptane
Concen: 0.597 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 11637

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#

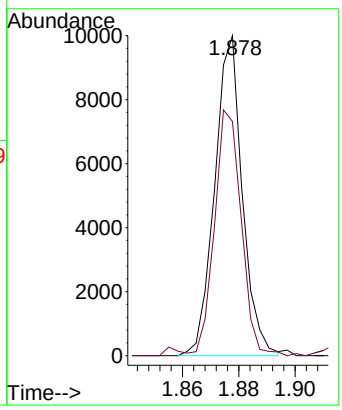




#11
Trichlorofluoromethane
Concen: 0.453 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:101 Resp: 684

Ion	Ratio	Lower	Upper
101	100		
103	71.8	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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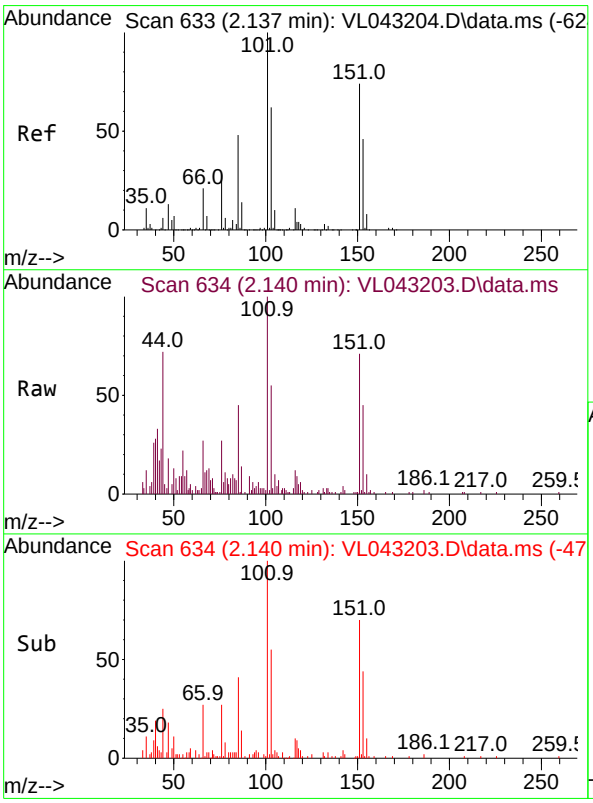
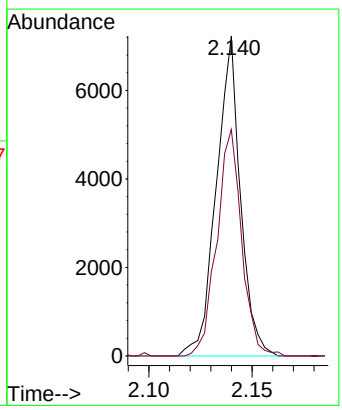
Supervised By :Mahesh Dadoda 11/19/2025

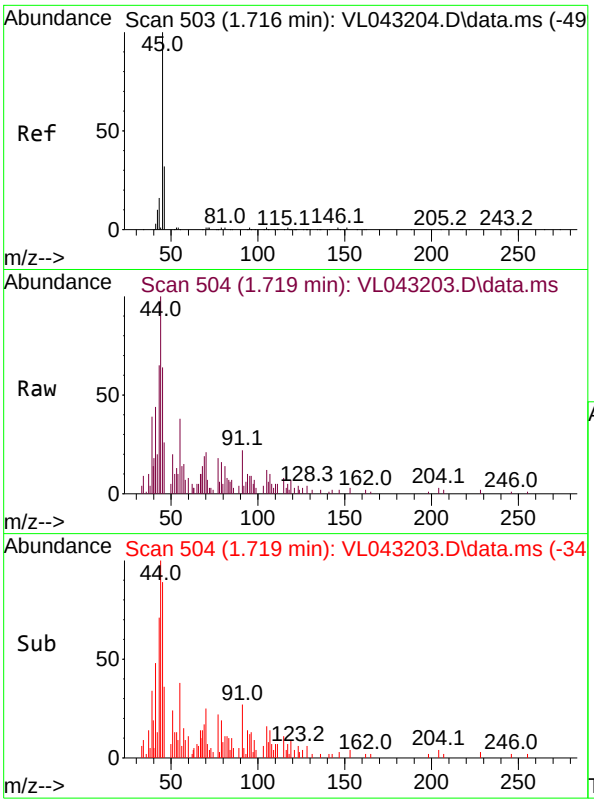


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.497 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:101 Resp: 5863

Ion	Ratio	Lower	Upper
101	100		
151	72.8	59.2	88.8

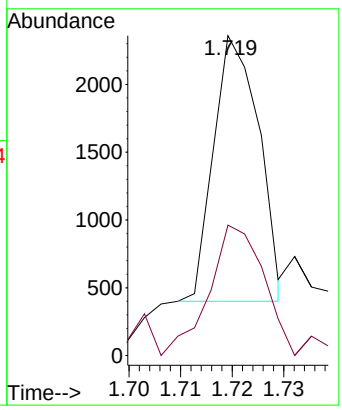




#13
Ethanol
Concen: 0.520 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 45 Resp: 119

Ion	Ratio	Lower	Upper
45	100		
46	58.7	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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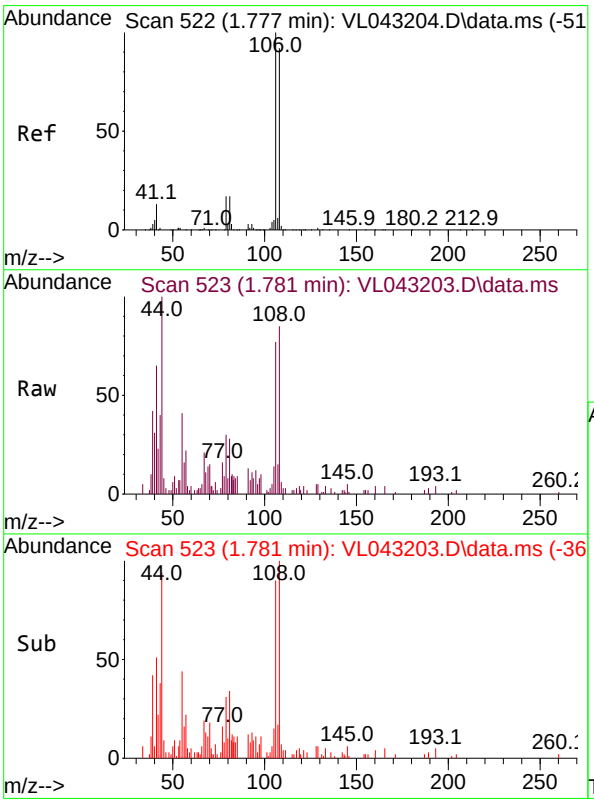
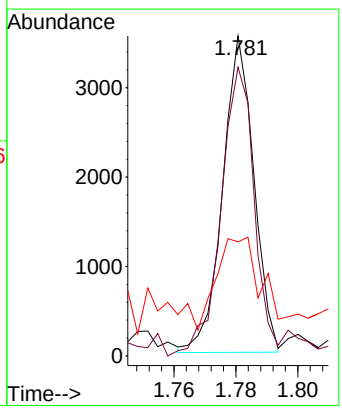
Supervised By :Mahesh Dadoda 11/19/2025

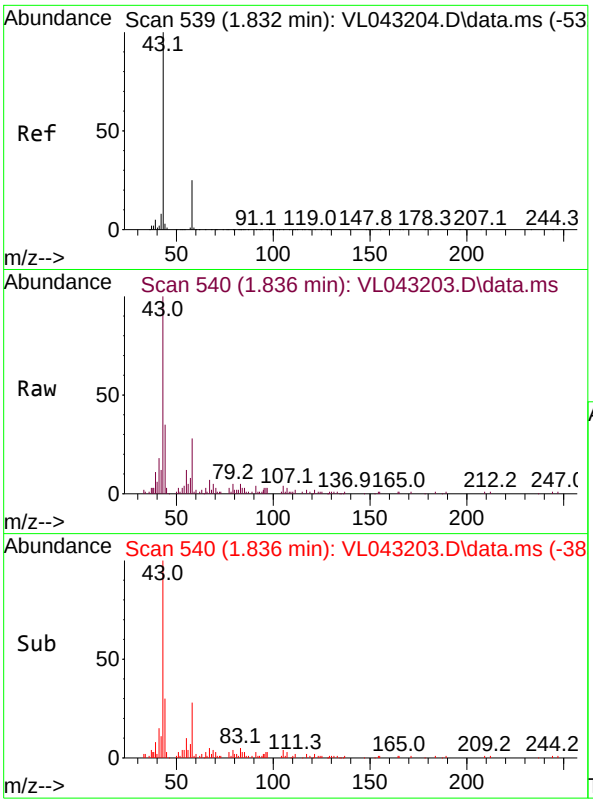


#14
Bromoethene
Concen: 0.548 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#

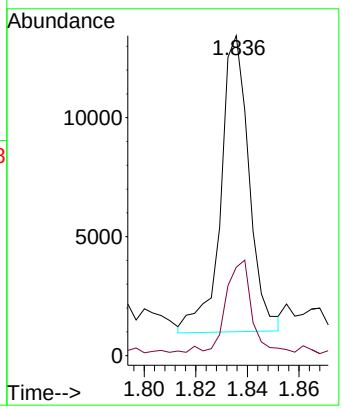




#15
Acetone
Concen: 0.619 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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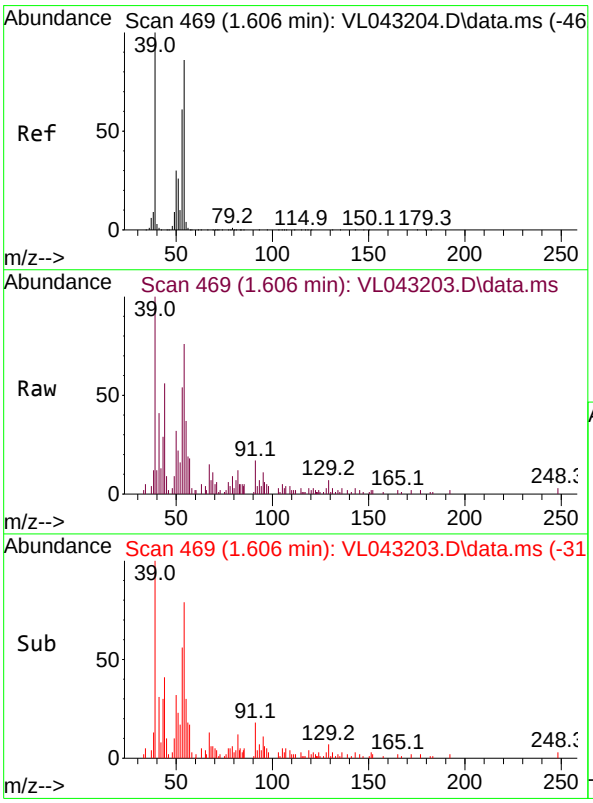
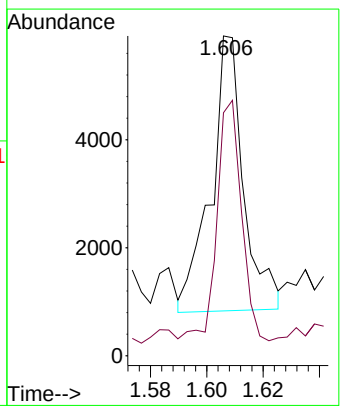
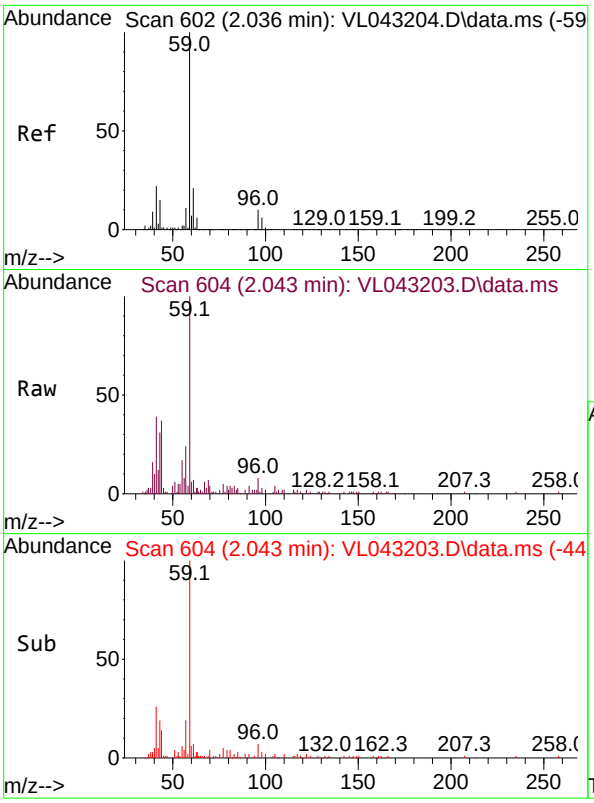


#16
1,3-Butadiene
Concen: 0.601 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 39 Resp: 4115

Ion	Ratio	Lower	Upper
39	100		
54	70.0	59.4	89.2

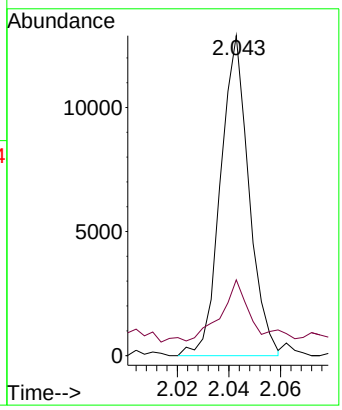




#17
tert-Butyl alcohol
Concen: 0.489 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 59 Resp: 985

Ion	Ratio	Lower	Upper
59	100		
57	23.3	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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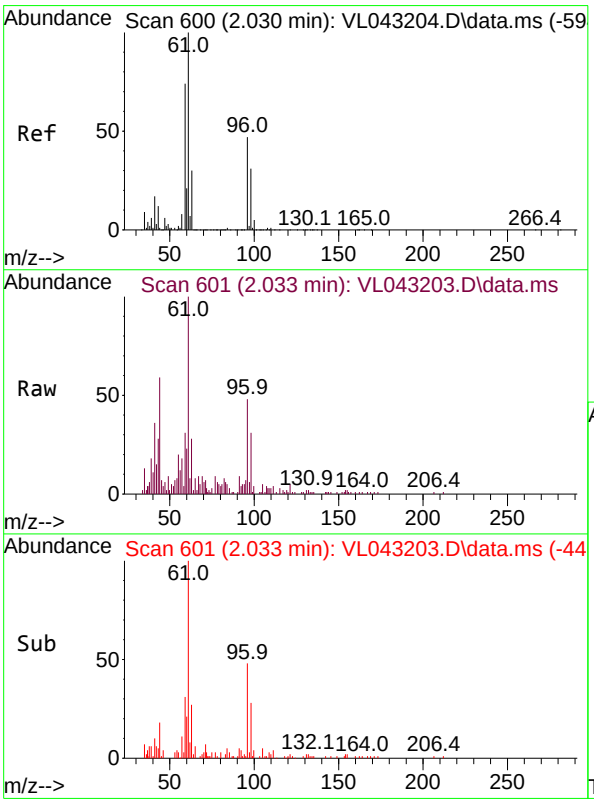
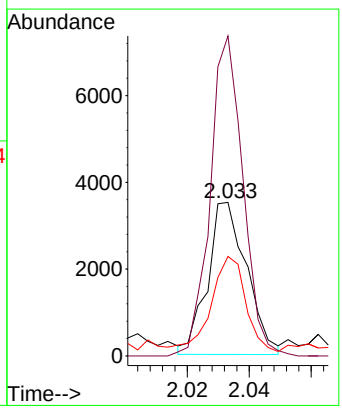
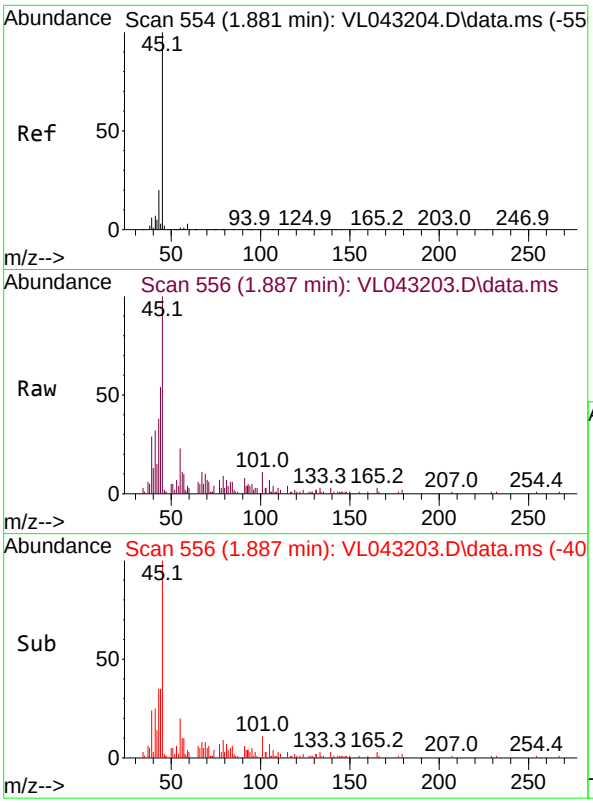


#18
1,1-Dichloroethene
Concen: 0.559 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

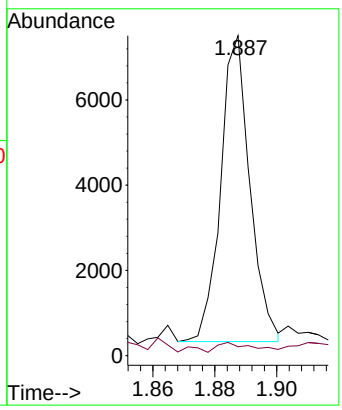




#19
Isopropyl Alcohol
Concen: 0.540 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 45 Resp: 468

Ion	Ratio	Lower	Upper
45	100		
58	9.0	31.3	46.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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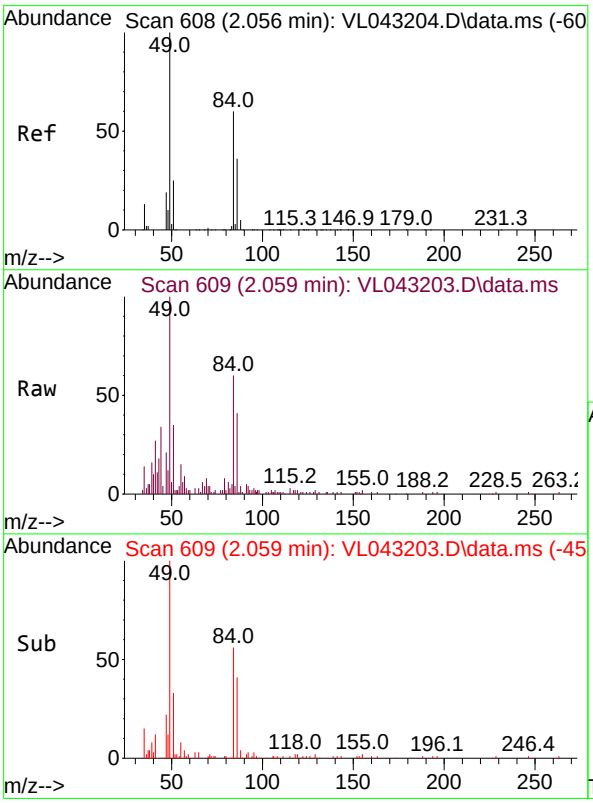
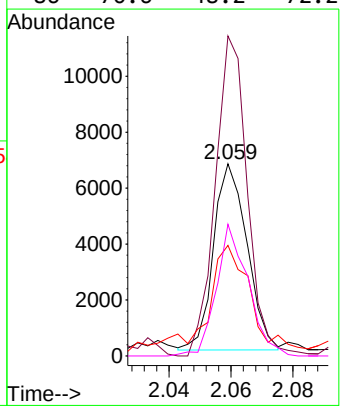
Supervised By :Mahesh Dadoda 11/19/2025

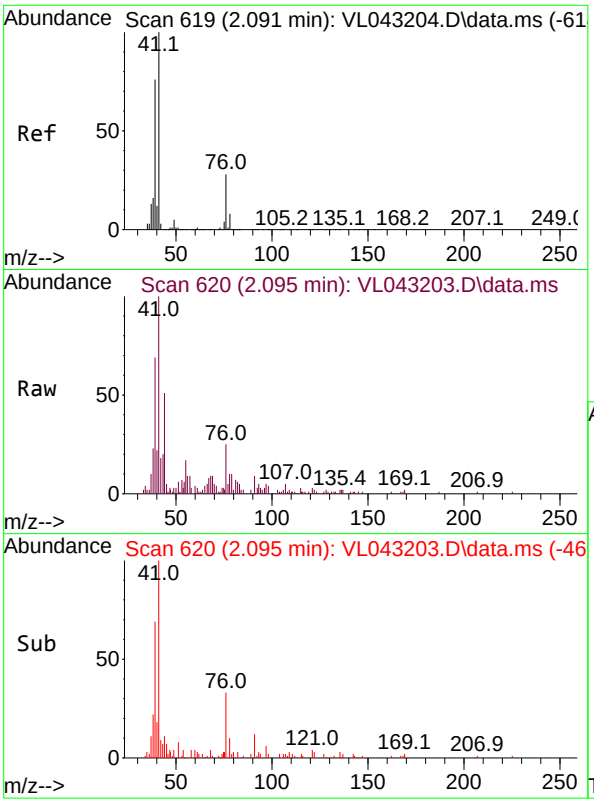


#20
Methylene Chloride
Concen: 0.349 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

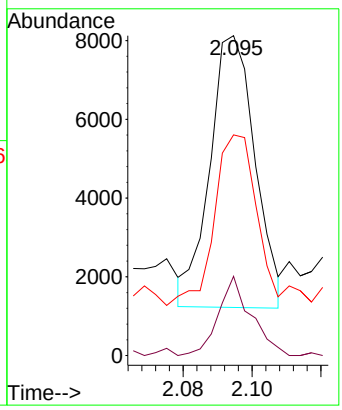




#21
Allyl Chloride
Concen: 0.609 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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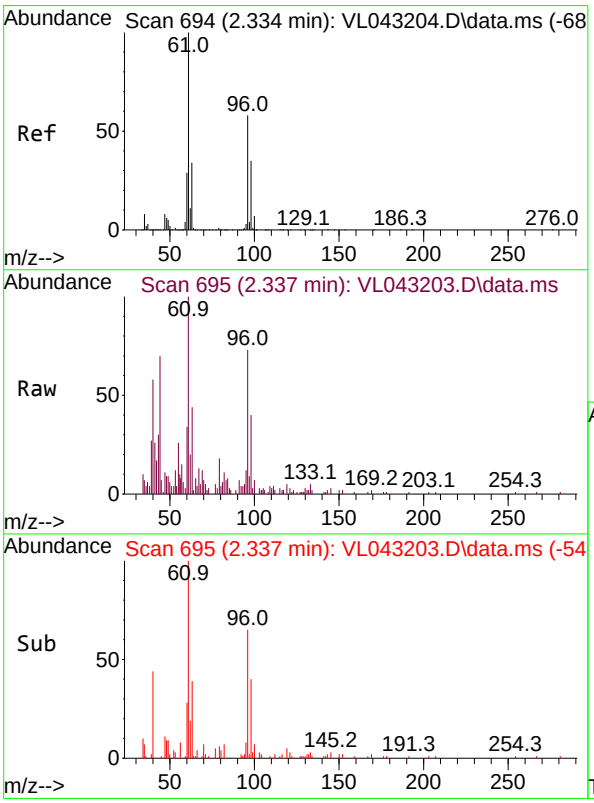
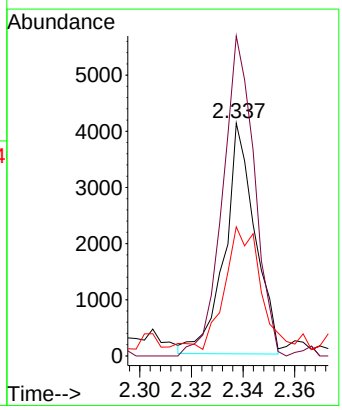
Supervised By :Mahesh Dadoda 11/19/2025

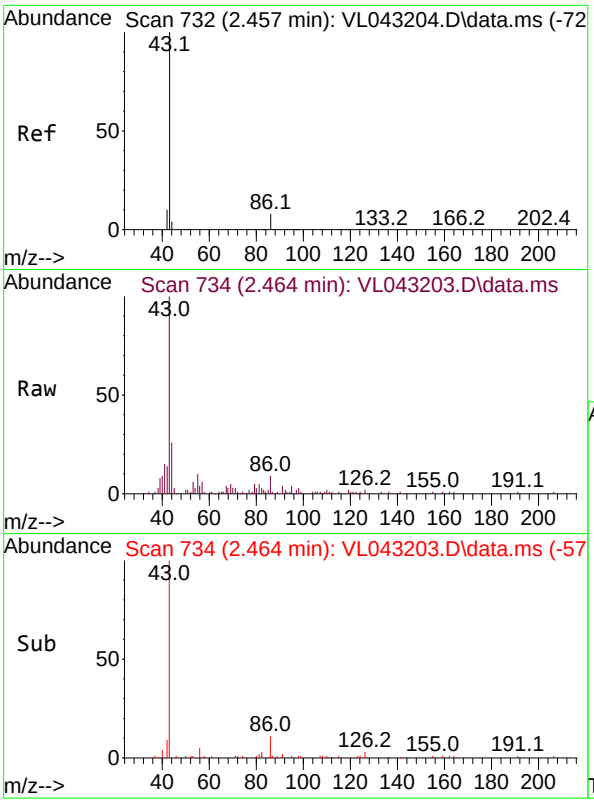


#22
trans-1,2-Dichloroethene
Concen: 0.533 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

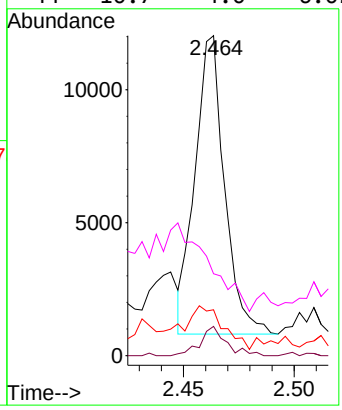




#23
Vinyl Acetate
Concen: 0.562 ppbv
RT: 2.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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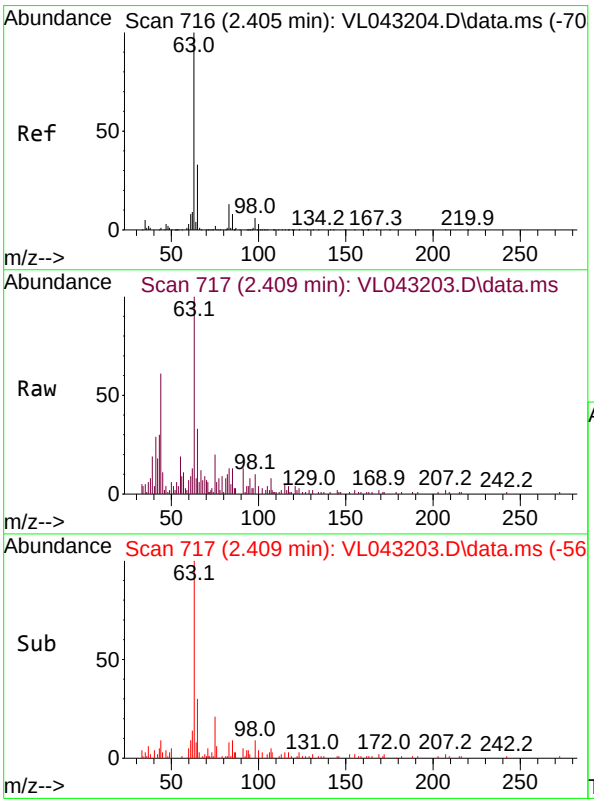
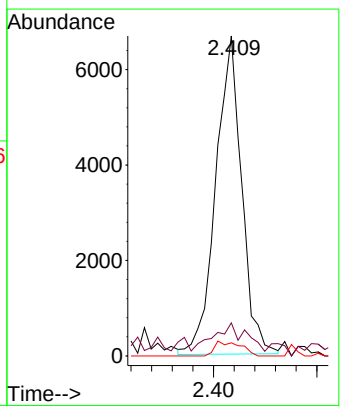
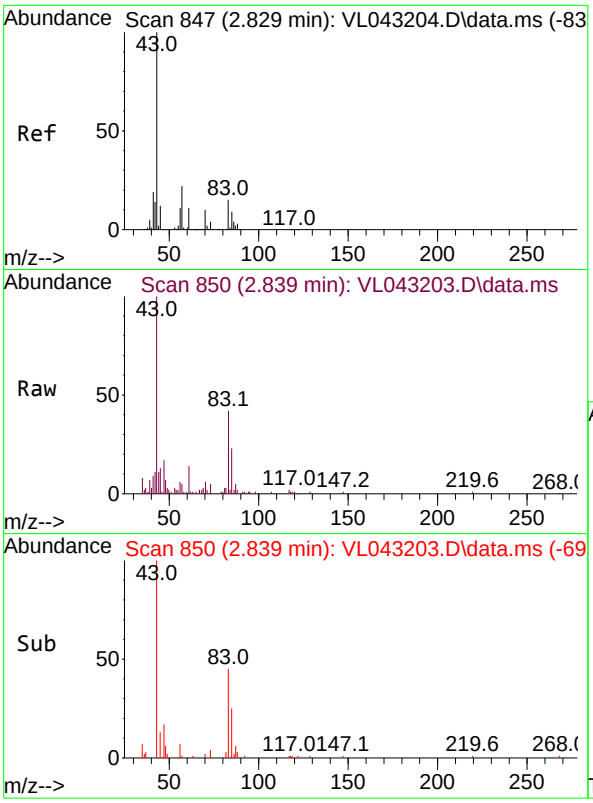


#24
1,1-Dichloroethane
Concen: 0.479 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#

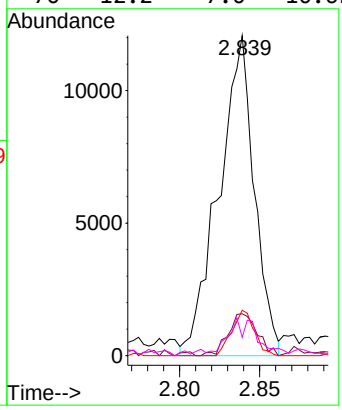




#25
Ethyl Acetate
Concen: 0.562 ppbv m
RT: 2.839 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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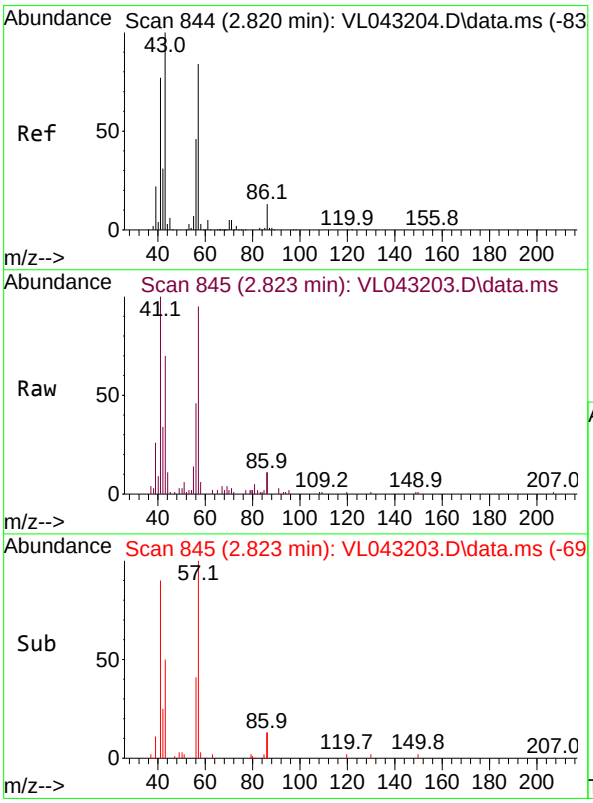
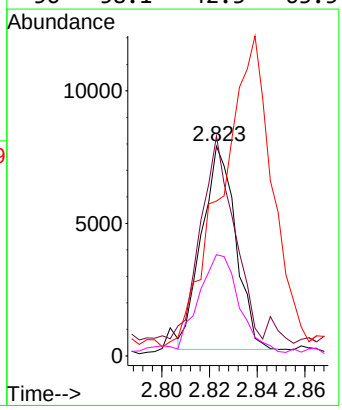
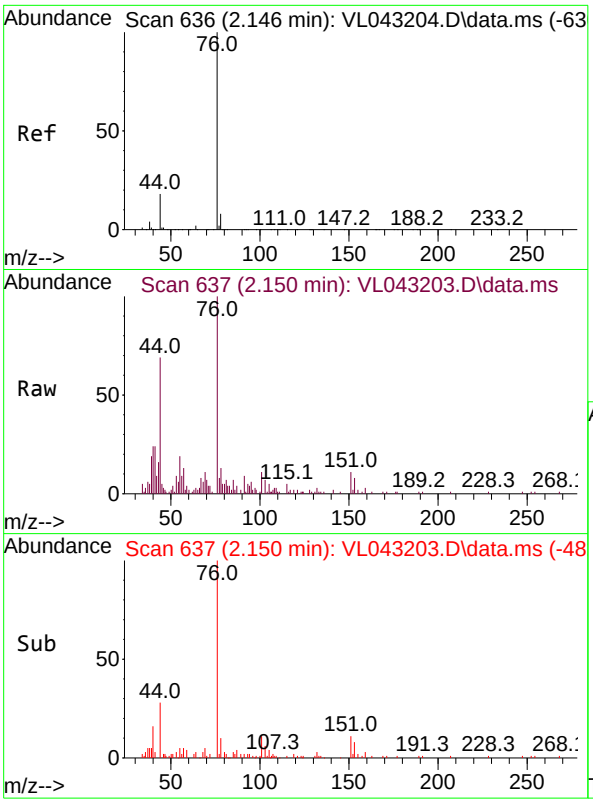


#26
Hexane
Concen: 0.523 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

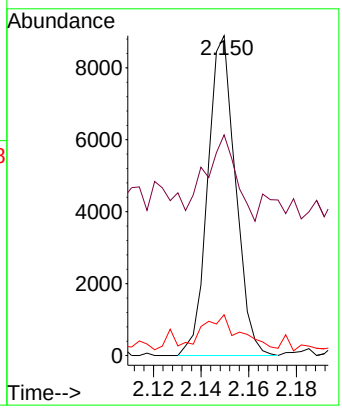




#27
Carbon Disulfide
Concen: 0.486 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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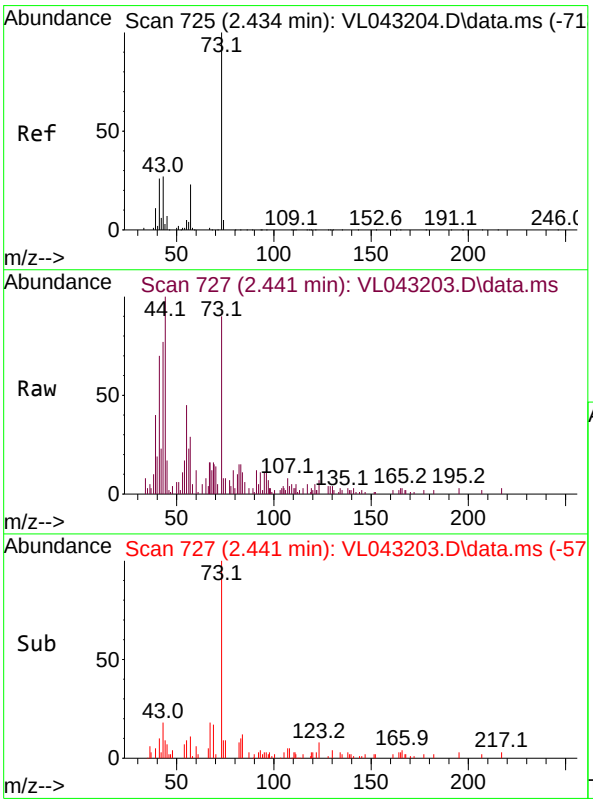
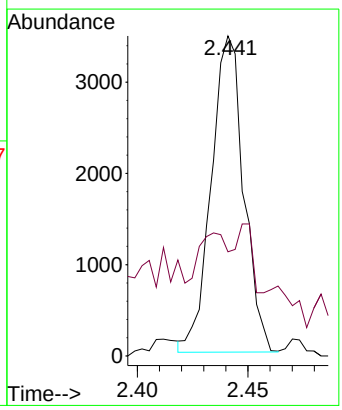
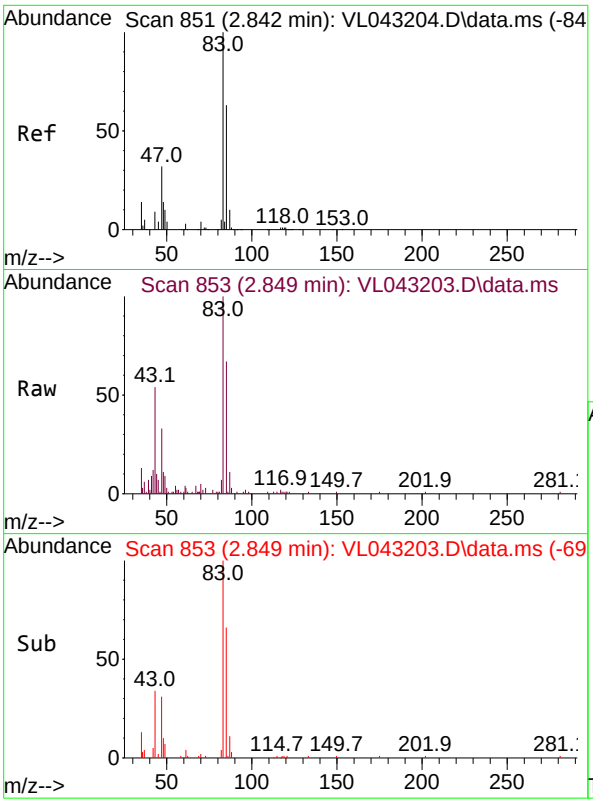


#28
Methyl tert-Butyl Ether
Concen: 0.498 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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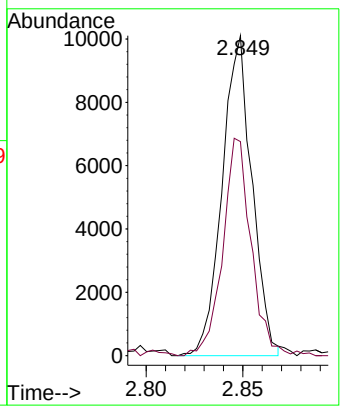
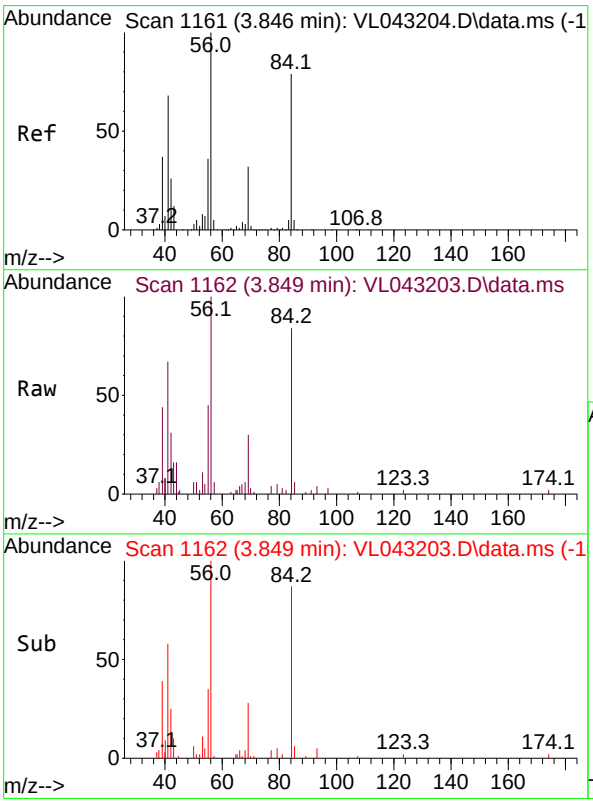
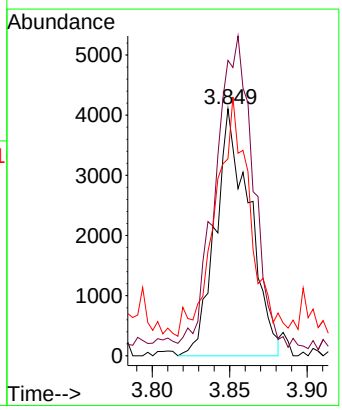


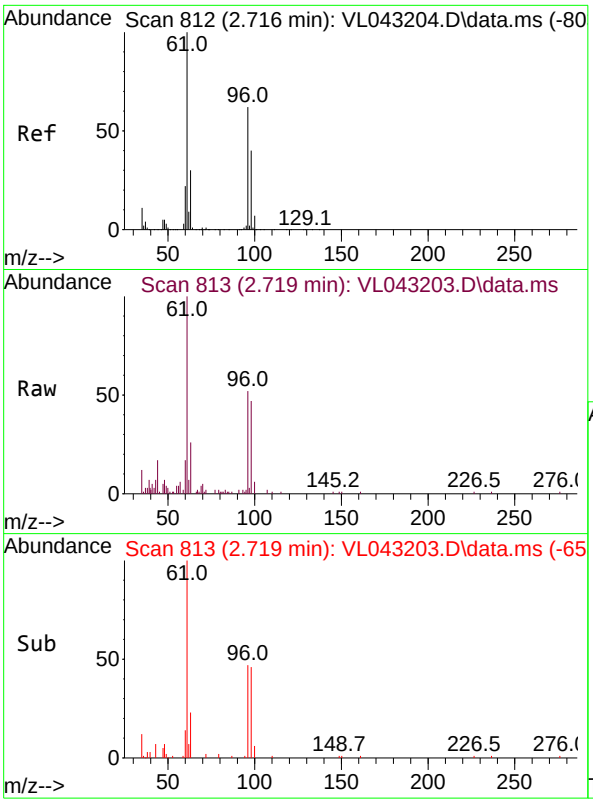


#30
Cyclohexane
Concen: 0.515 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

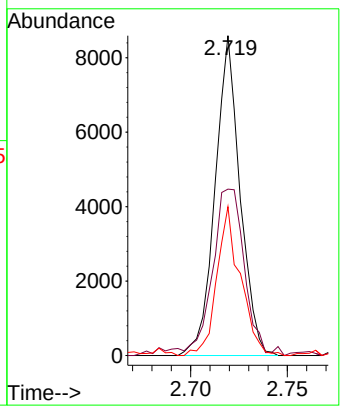




#31
cis-1,2-Dichloroethene
Concen: 0.536 ppbv
RT: 2.719 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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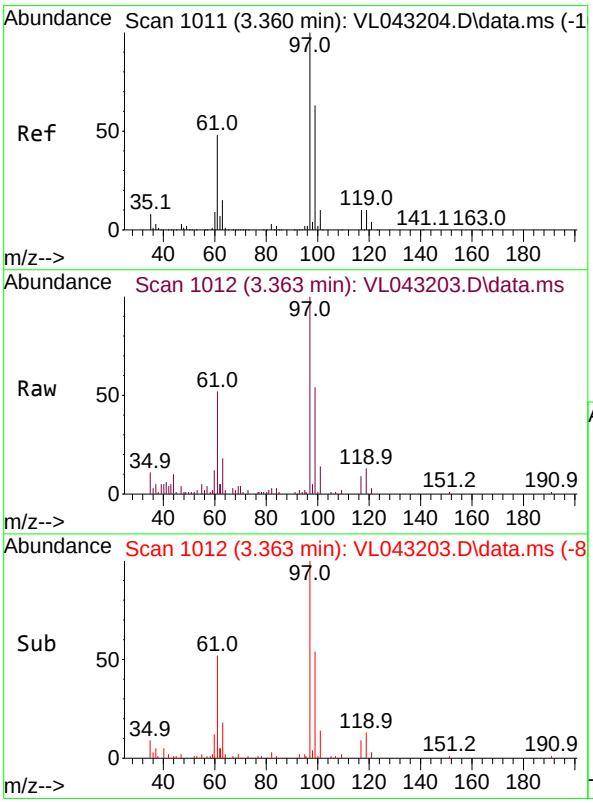
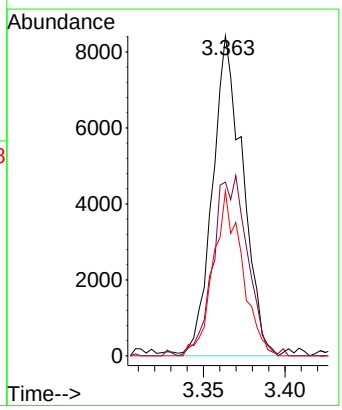
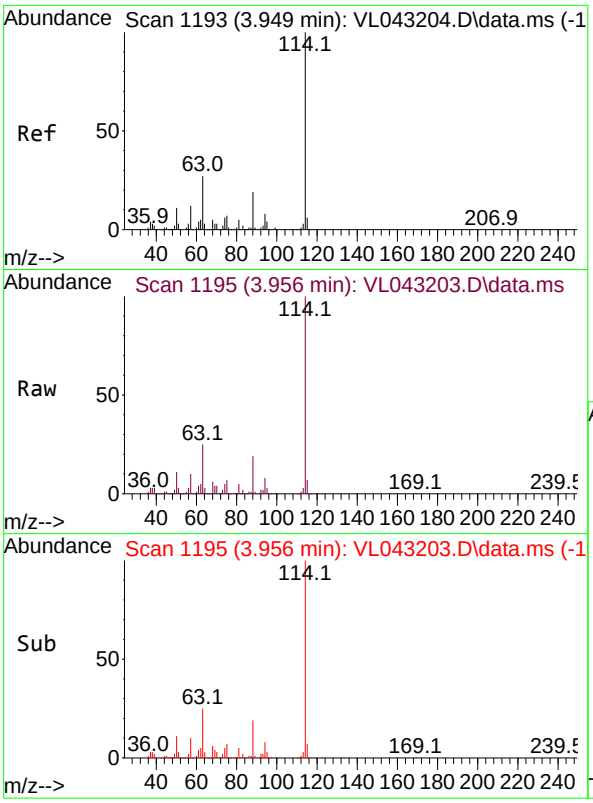


#32
1,1,1-Trichloroethane
Concen: 0.490 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

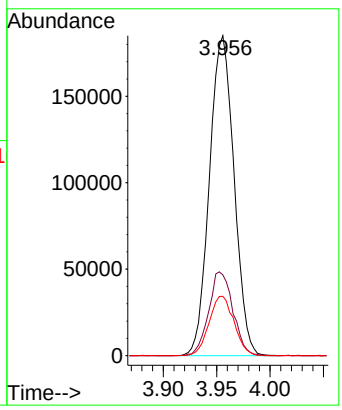




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

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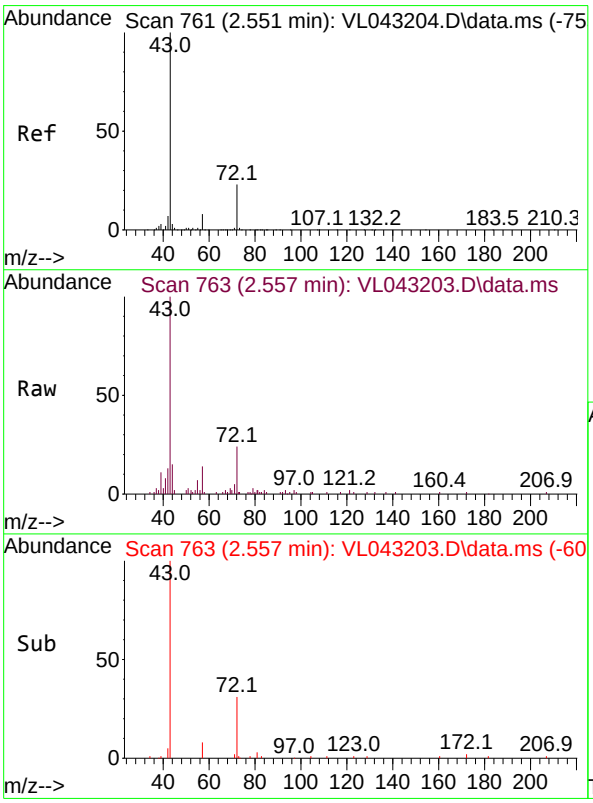
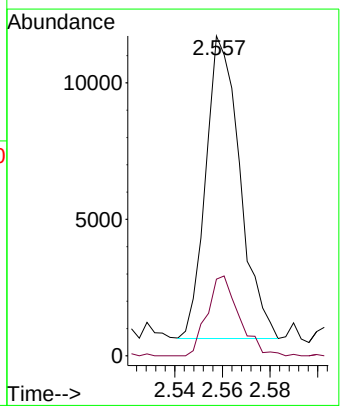
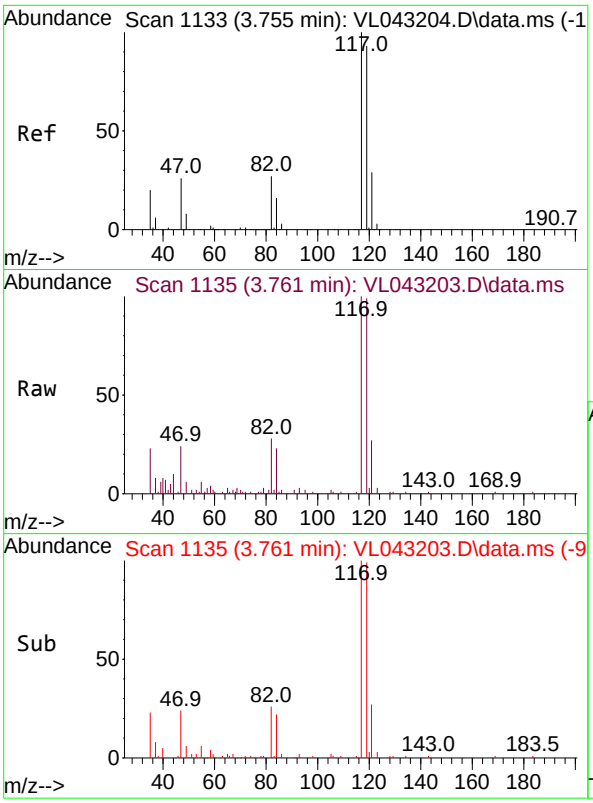


#34
2-Butanone
Concen: 0.527 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 11026

Ion	Ratio	Lower	Upper
43	100		
72	24.9	18.1	27.1

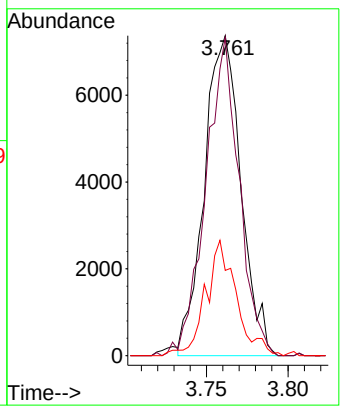




#35
Carbon Tetrachloride
Concen: 0.513 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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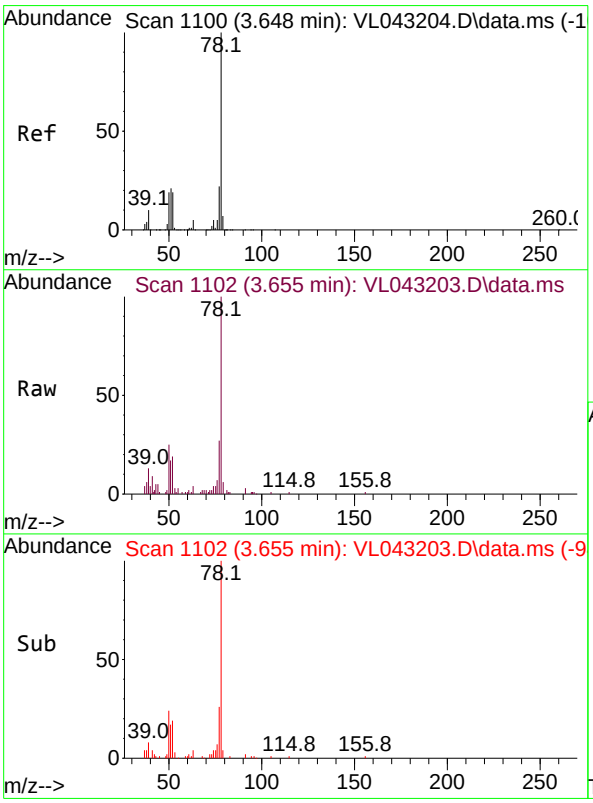
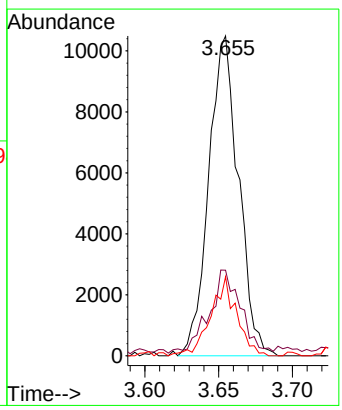
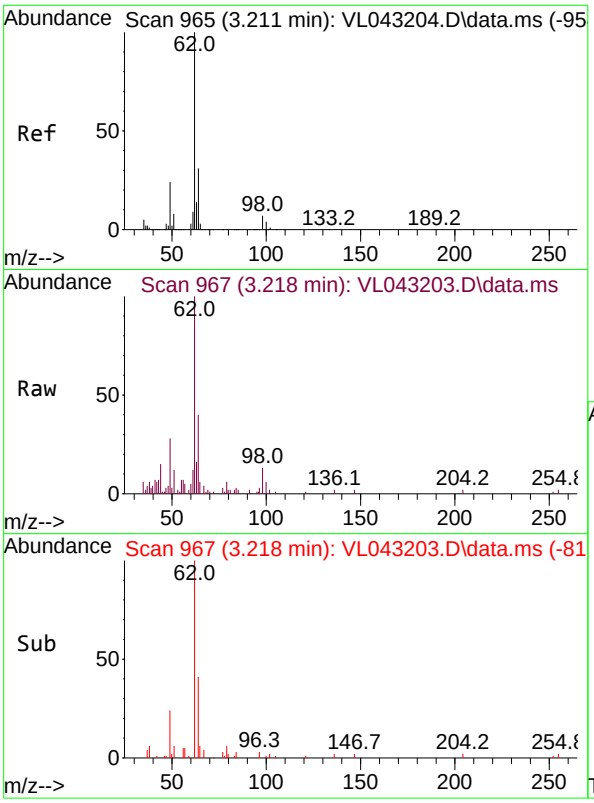


#36
Benzene
Concen: 0.520 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#

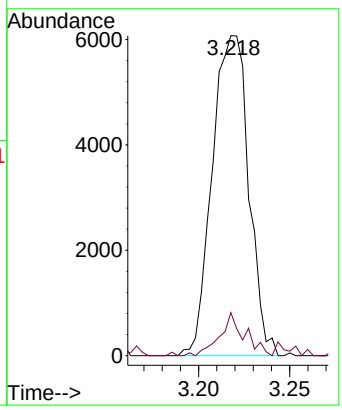




#37
1,2-Dichloroethane
Concen: 0.510 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 62 Resp: 847

Ion	Ratio	Lower	Upper
62	100		
98	9.2	5.5	8.3#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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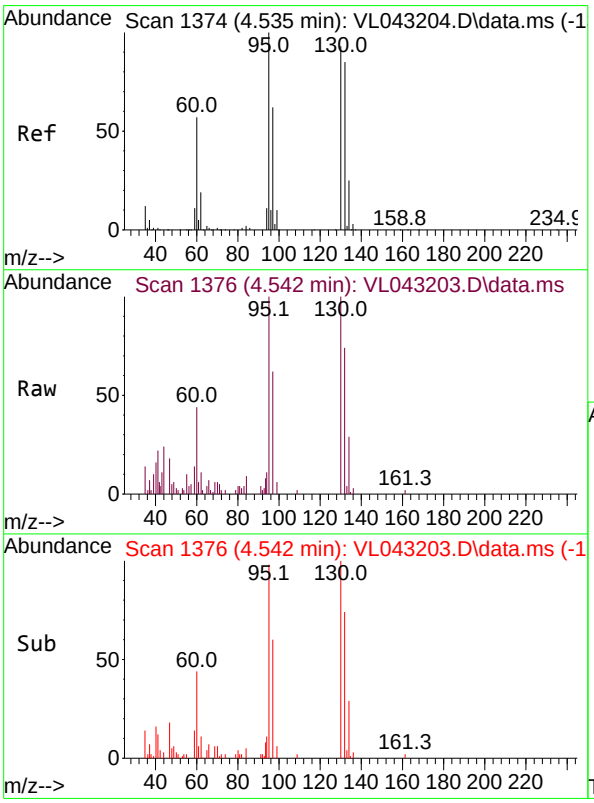
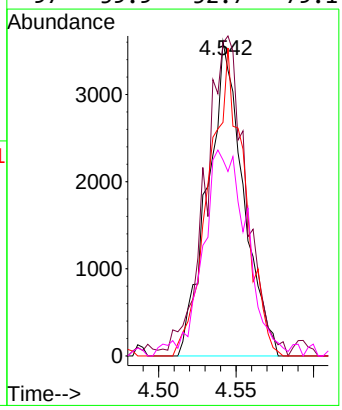
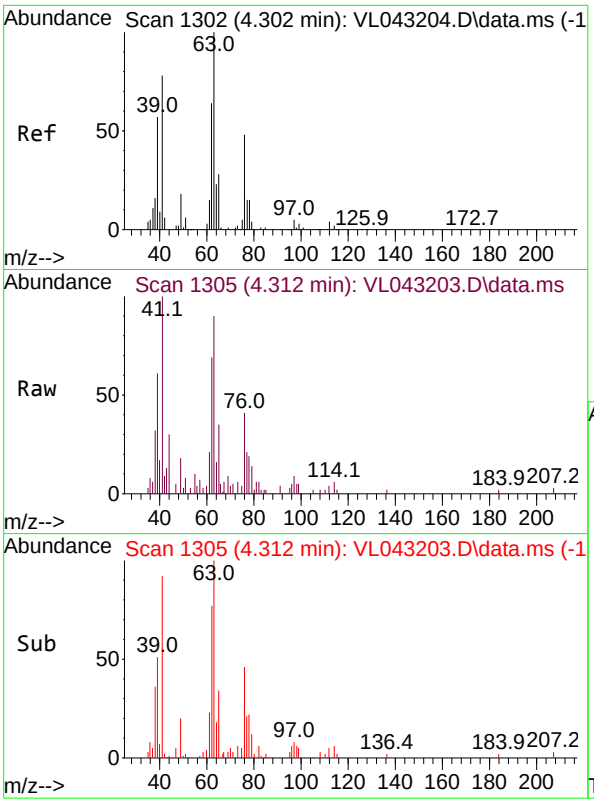


#38
Trichloroethene
Concen: 0.519 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

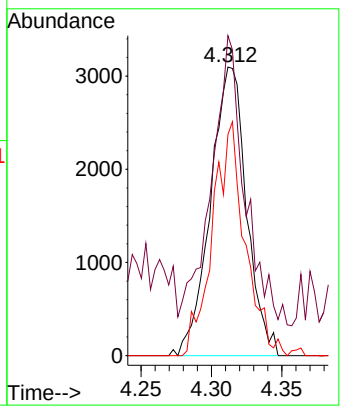




#39
1,2-Dichloropropane
Concen: 0.530 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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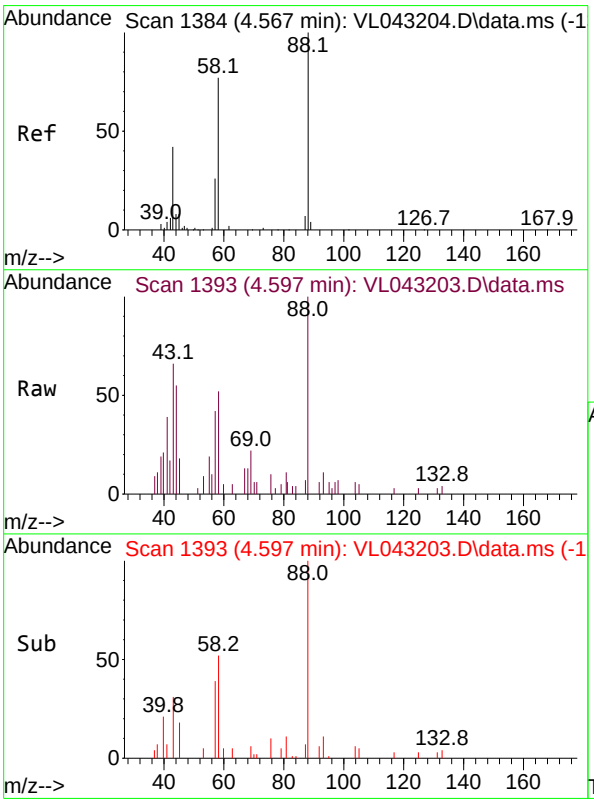
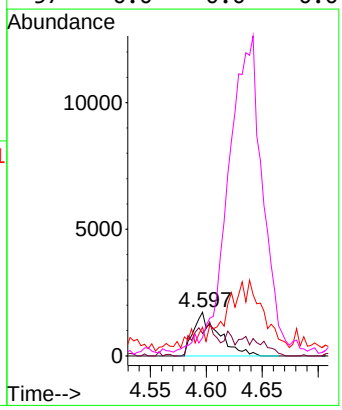
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

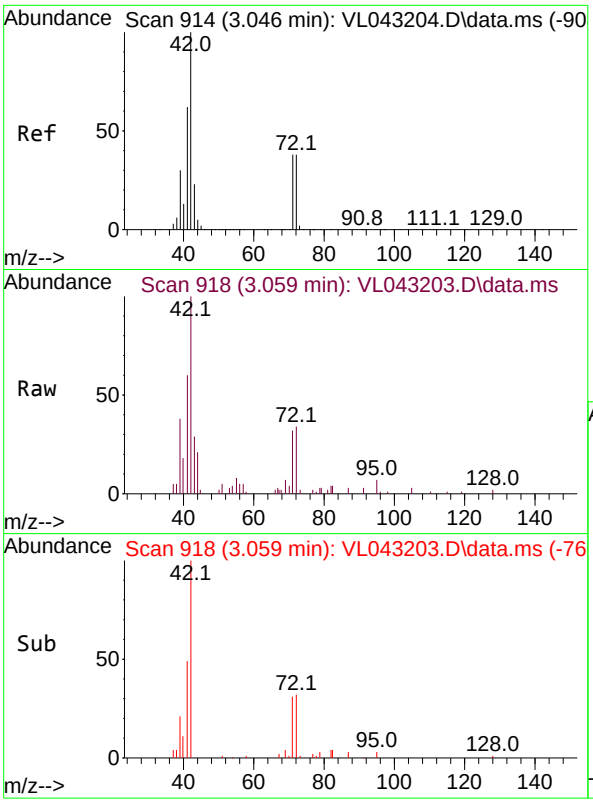


#40
1,4-Dioxane
Concen: 0.573 ppbv m
RT: 4.597 min Scan# 1393
Delta R.T. 0.029 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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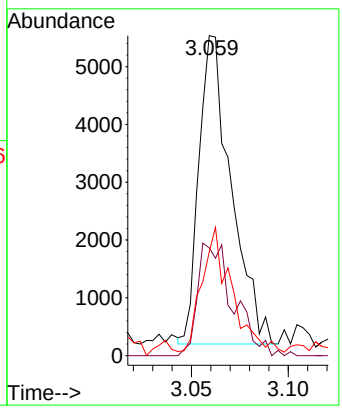
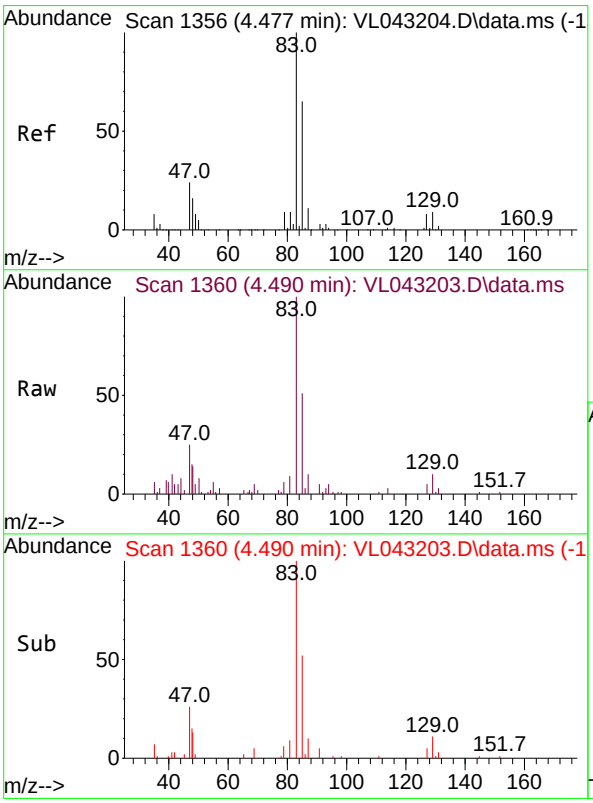
Supervised By :Mahesh Dadoda 11/19/2025

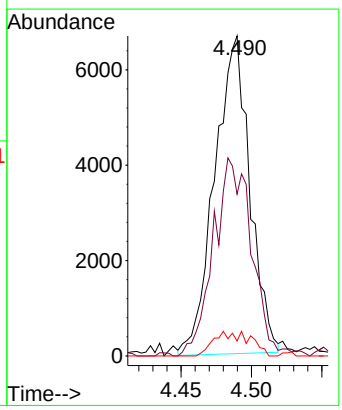


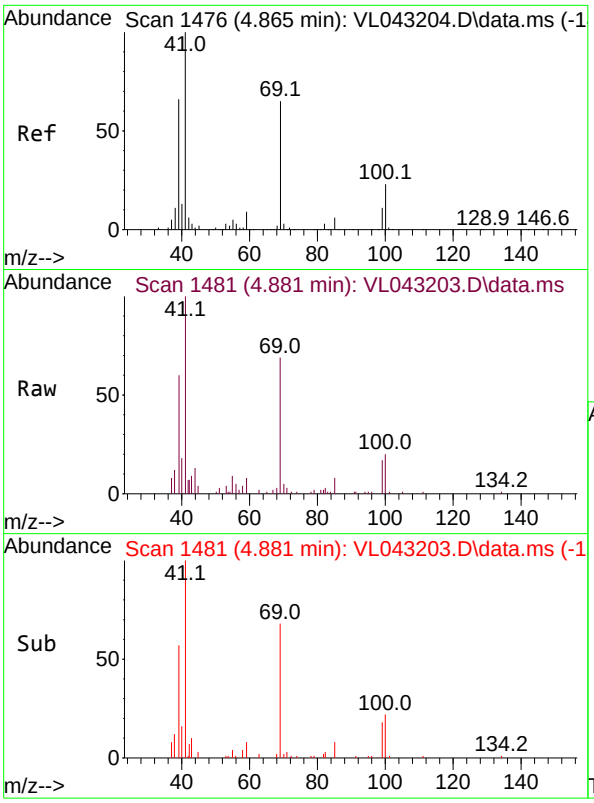


#42
Bromodichloromethane
Concen: 0.506 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#

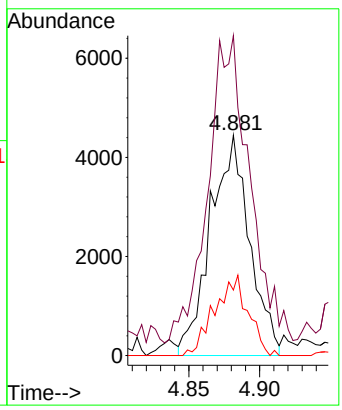




#43
Methyl Methacrylate
Concen: 0.566 ppbv m
RT: 4.881 min Scan# 14
Delta R.T. 0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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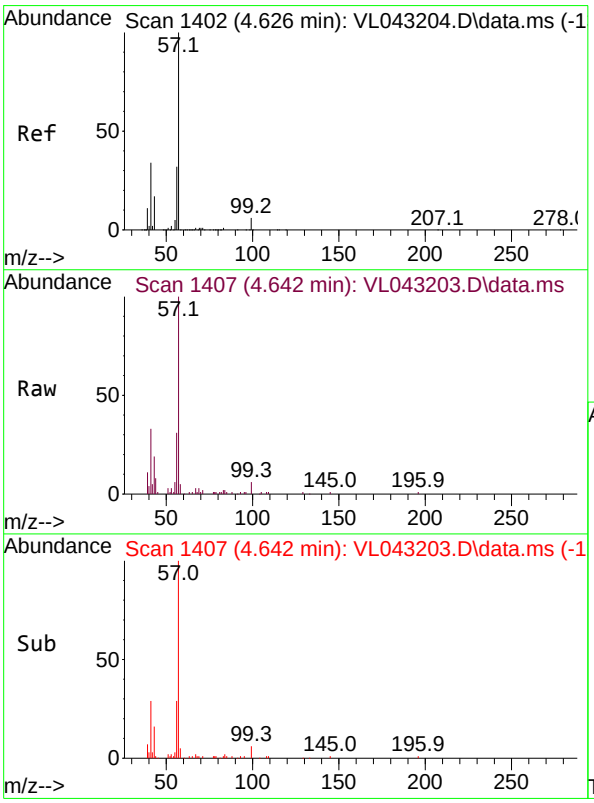
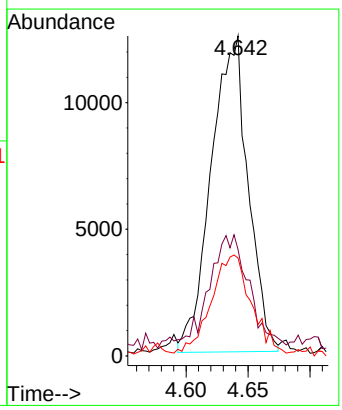
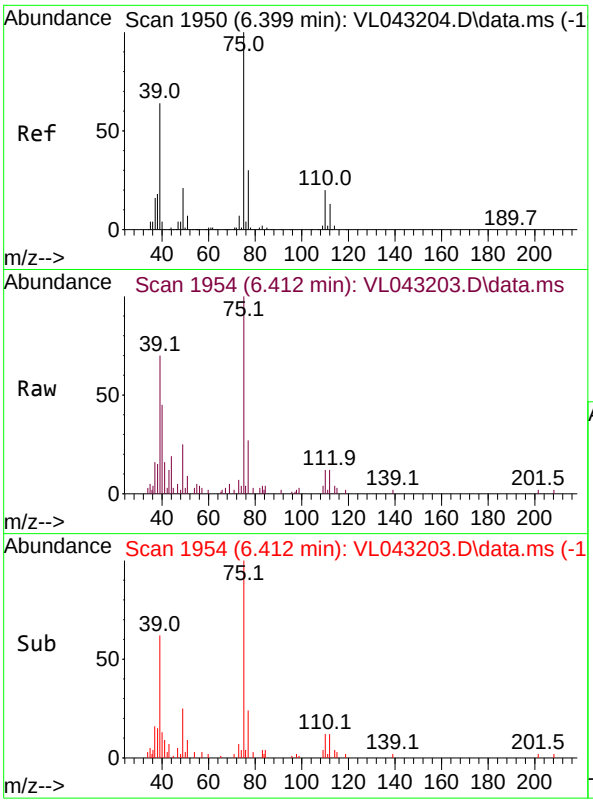


#44
2,2,4-Trimethylpentane
Concen: 0.531 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

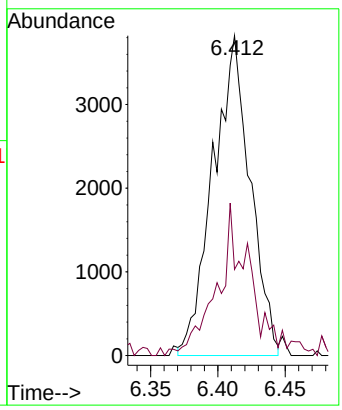




#45
t-1,3-Dichloropropene
Concen: 0.523 ppbv
RT: 6.412 min Scan# 19
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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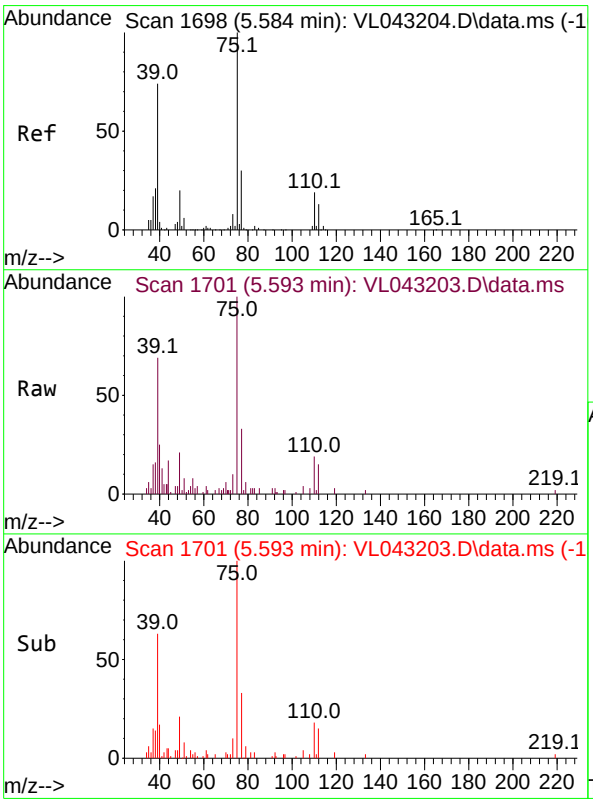
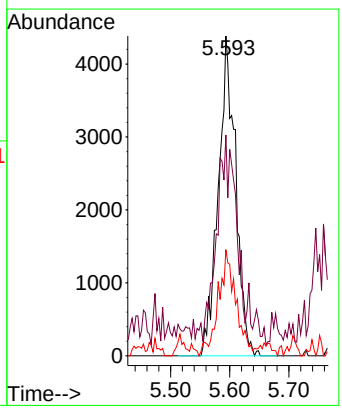
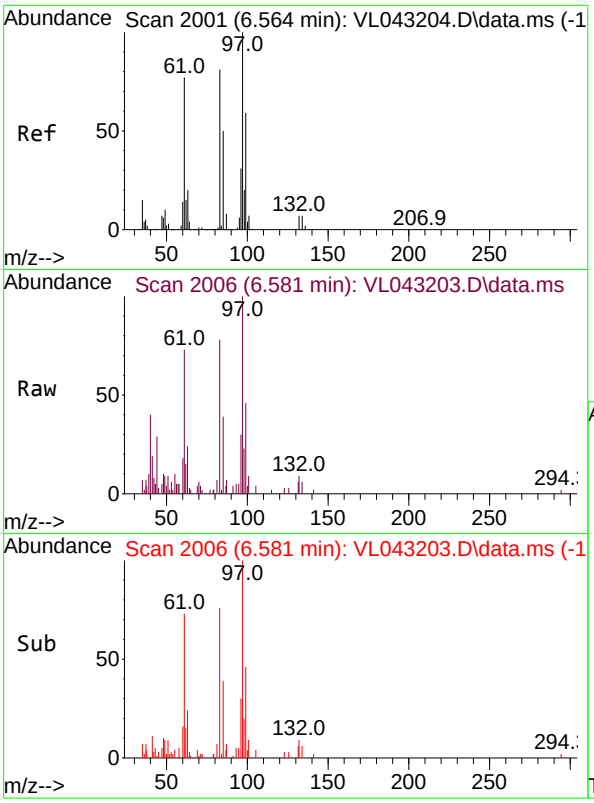


#46
cis-1,3-Dichloropropene
Concen: 0.539 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

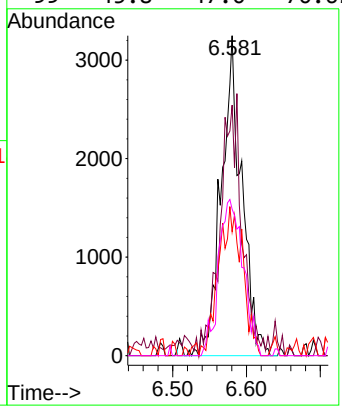




#47
1,1,2-Trichloroethane
Concen: 0.567 ppbv m
RT: 6.581 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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 :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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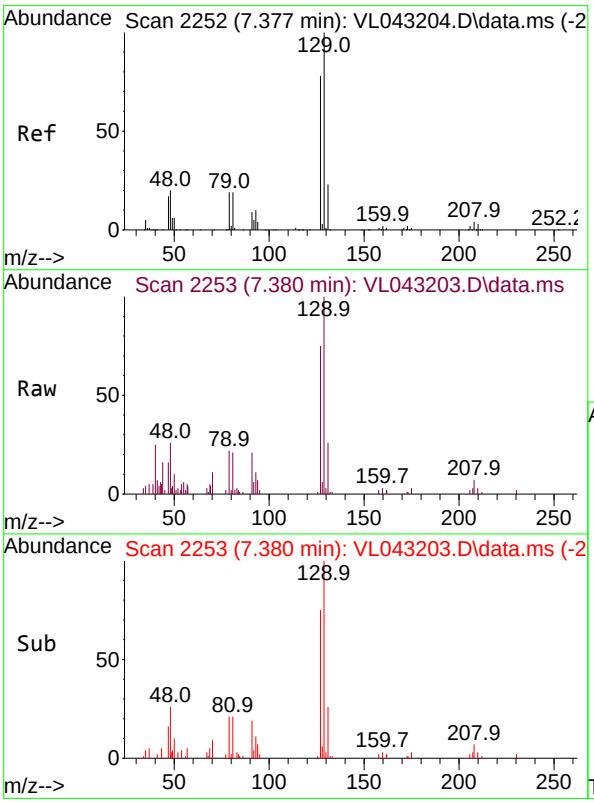
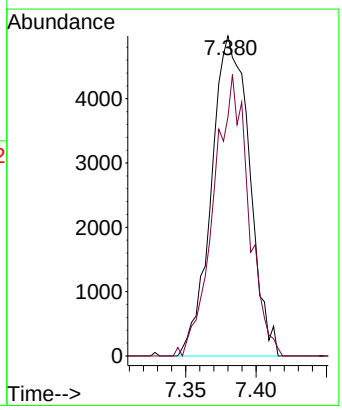
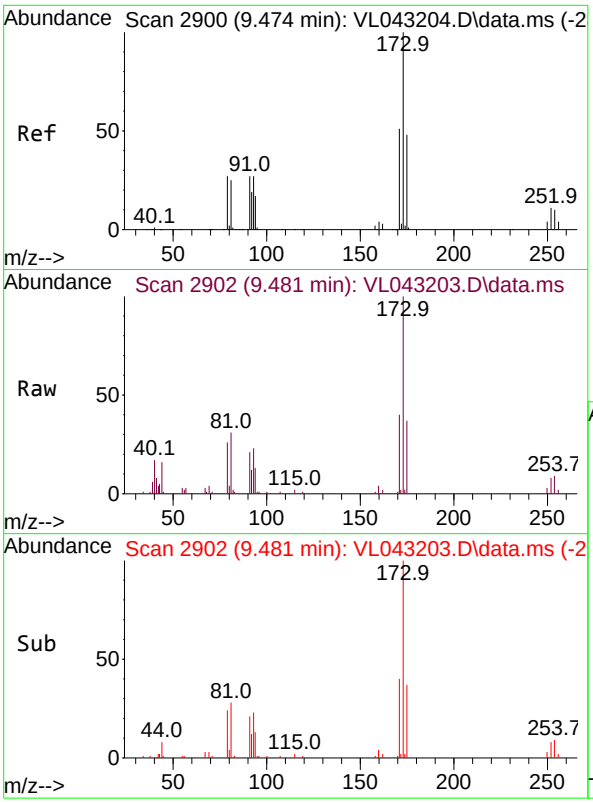


#48
Dibromochloromethane
Concen: 0.492 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:129 Resp: 9327

Ion	Ratio	Lower	Upper
129	100		
127	80.8	39.3	117.9

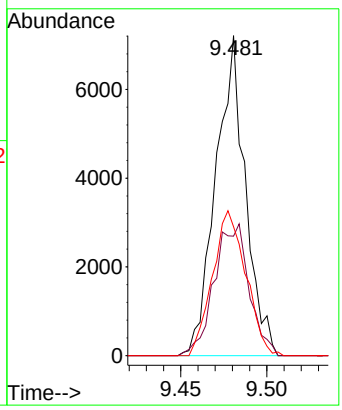




#49
Bromoform
Concen: 0.514 ppbv
RT: 9.481 min Scan# 29
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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 :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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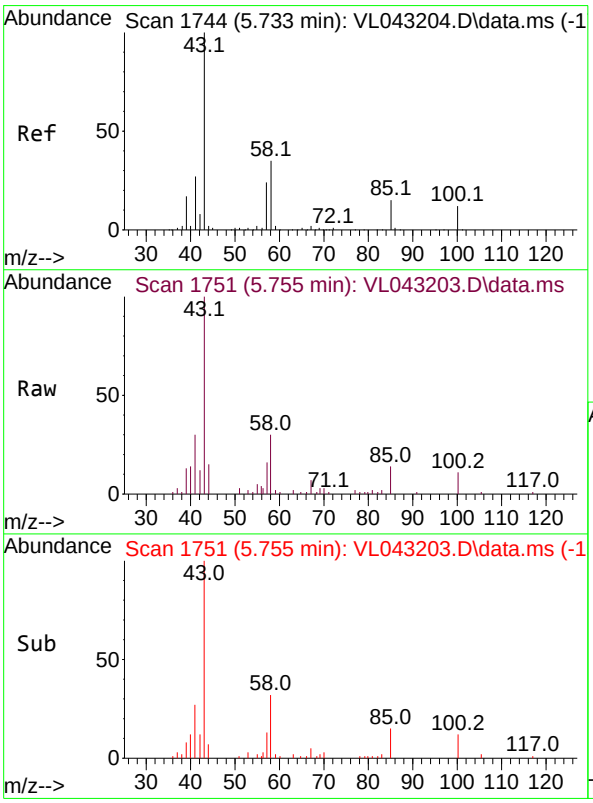
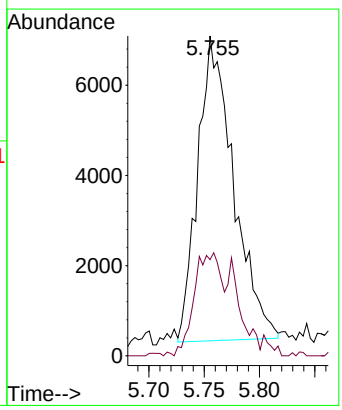
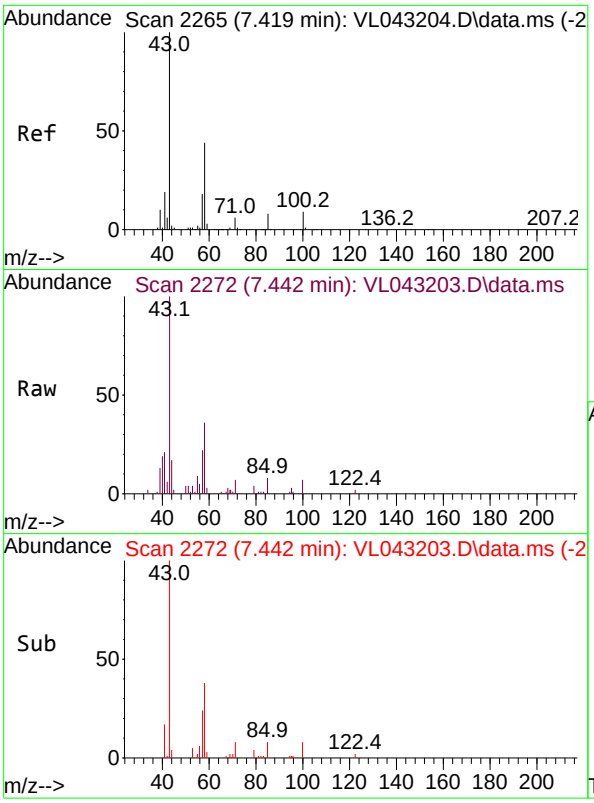


#50
4-Methyl-2-Pentanone
Concen: 0.515 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.023 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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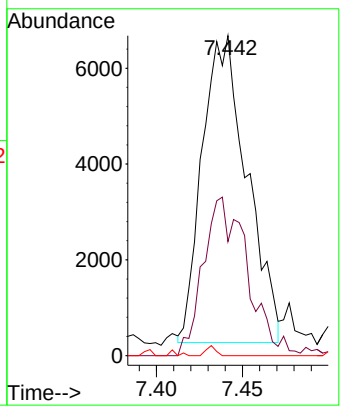
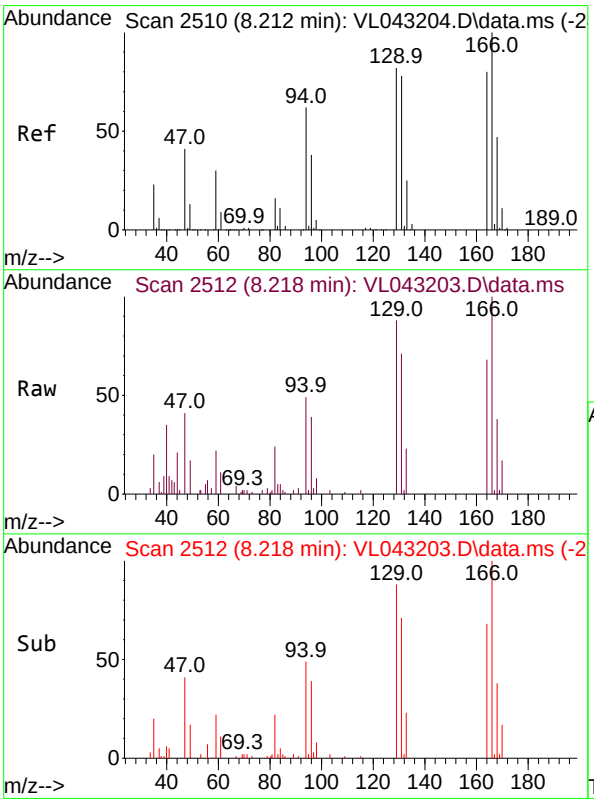
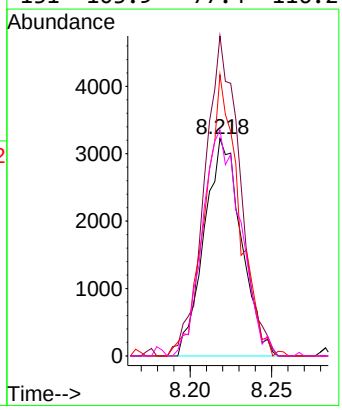


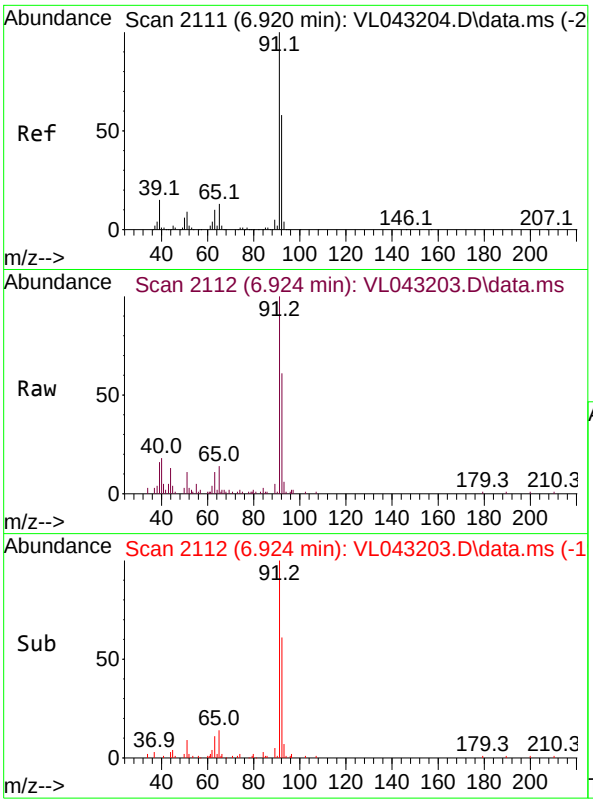


#52
Tetrachloroethene
Concen: 0.483 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

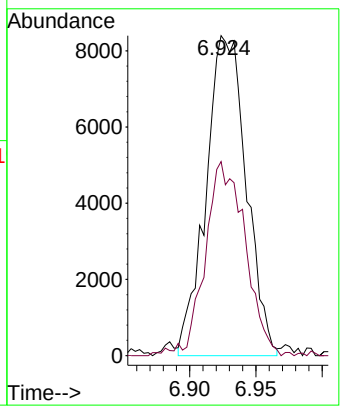




#53
Toluene
Concen: 0.525 ppbv m
RT: 6.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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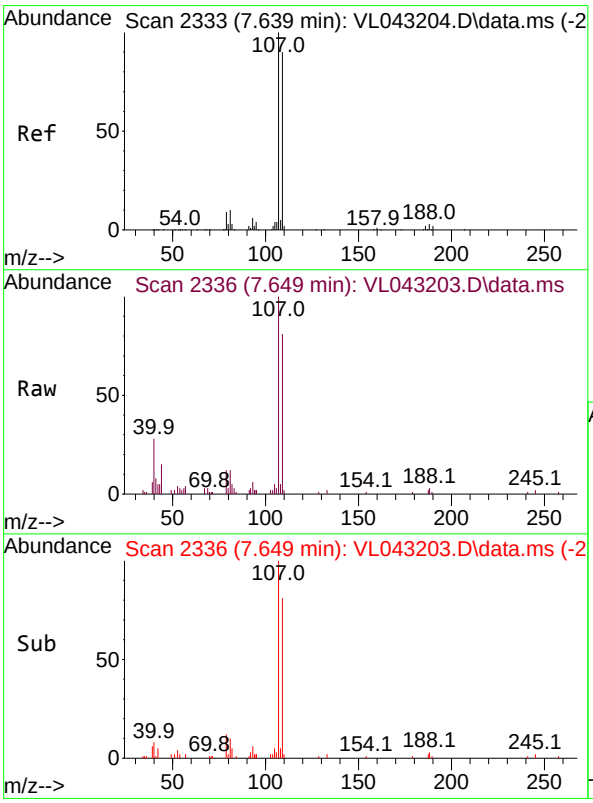
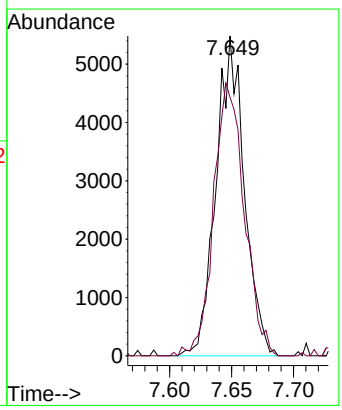
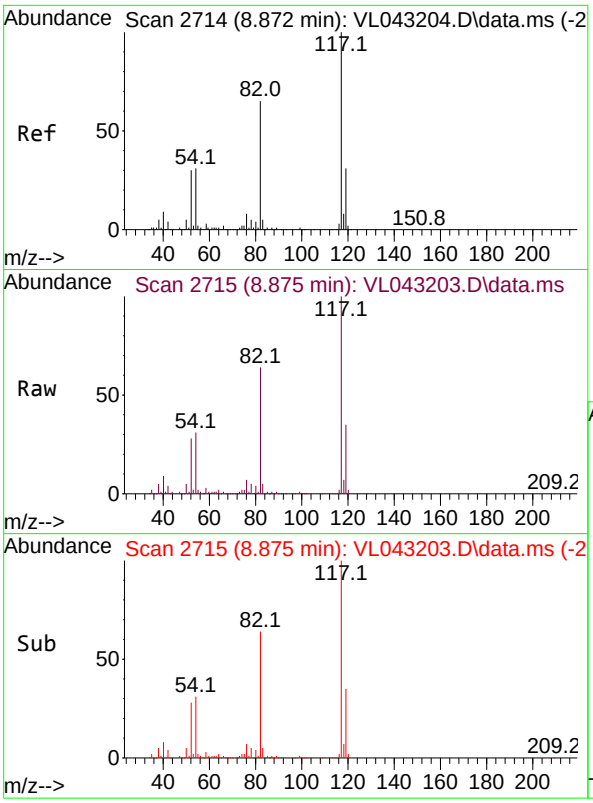


#54
1,2-Dibromoethane
Concen: 0.537 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:107 Resp: 8708

Ion	Ratio	Lower	Upper
107	100		
109	80.8	72.1	108.1

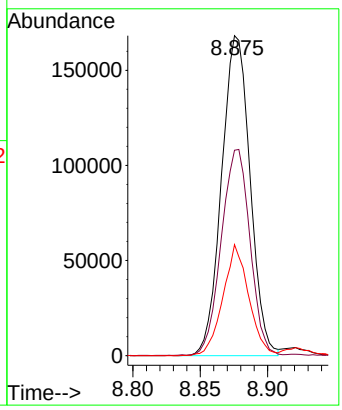




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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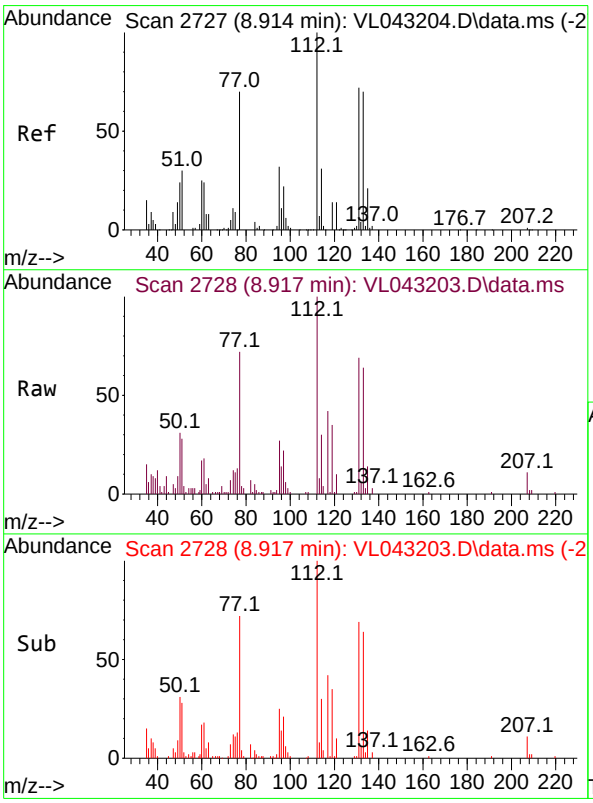
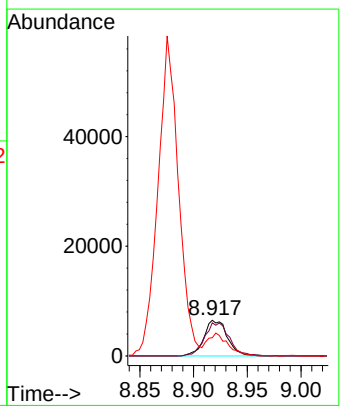
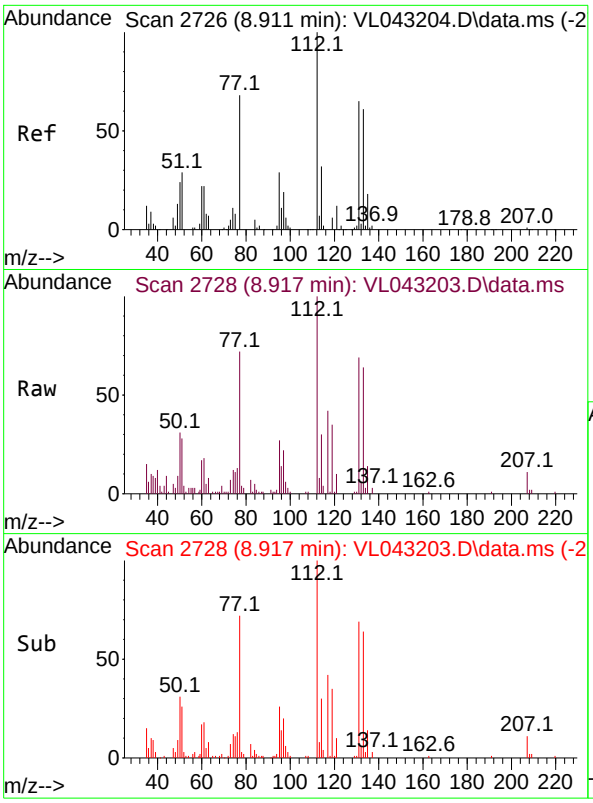


#56
1,1,1,2-Tetrachloroethane
Concen: 0.538 ppbv m
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

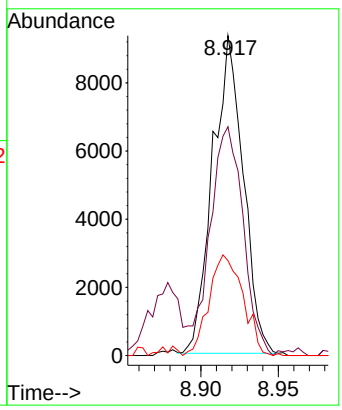




#57
Chlorobenzene
Concen: 0.504 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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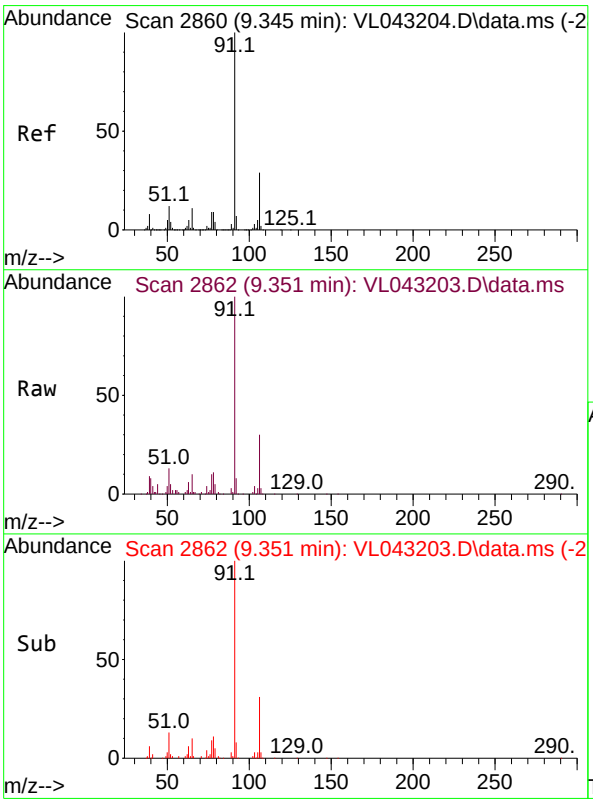
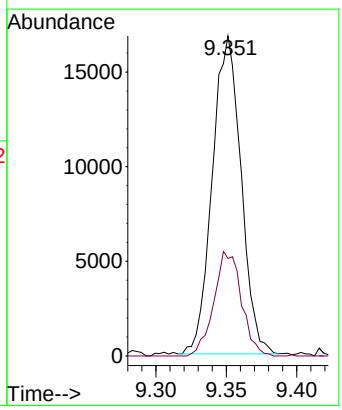
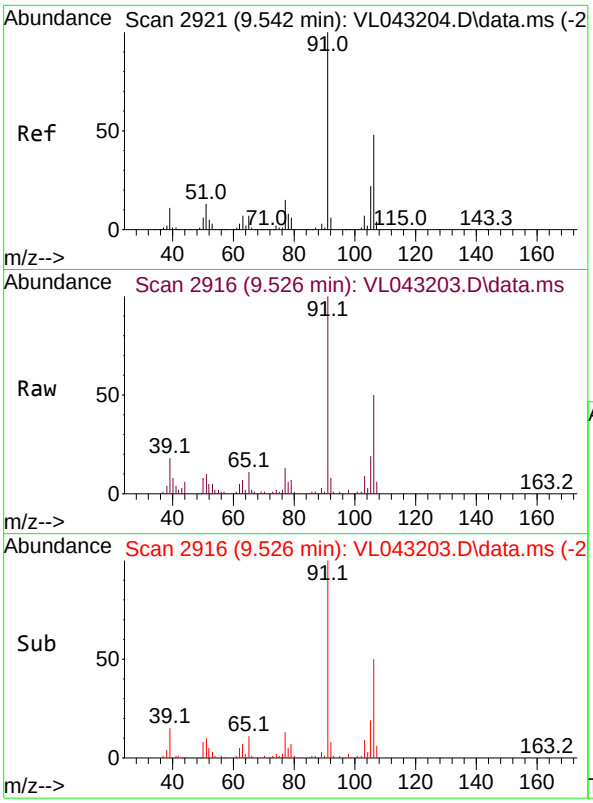


#58
Ethyl Benzene
Concen: 0.500 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 23866

Ion	Ratio	Lower	Upper
91	100		
106	30.7	22.8	34.2

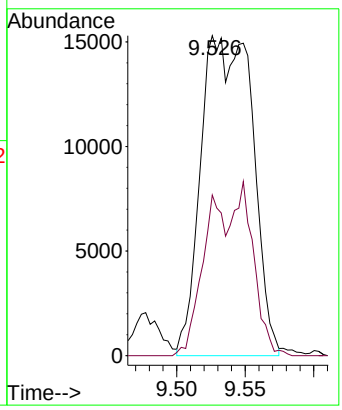




#59
m/p-Xylene
Concen: 1.044 ppbv m
RT: 9.526 min Scan# 29
Delta R.T. -0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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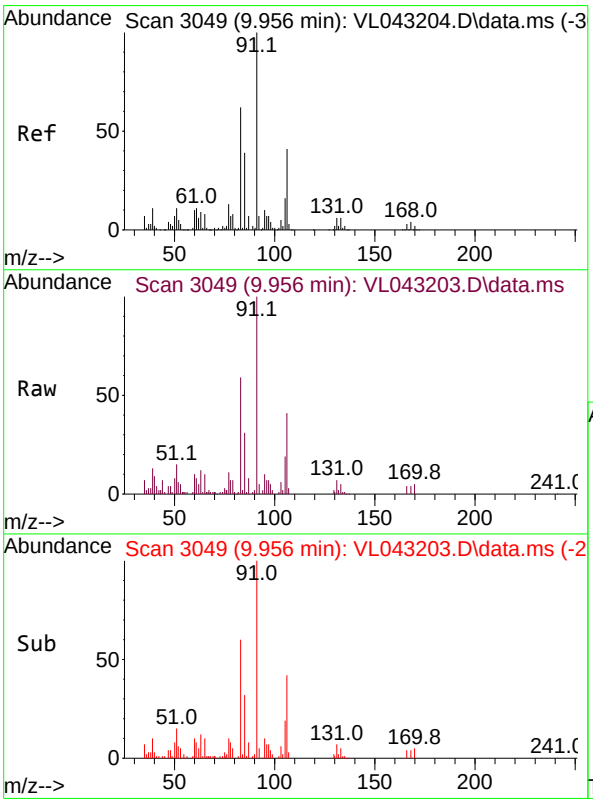
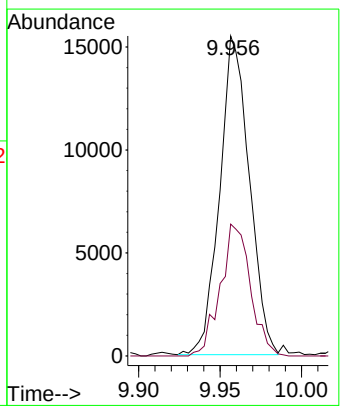
Supervised By :Mahesh Dadoda 11/19/2025

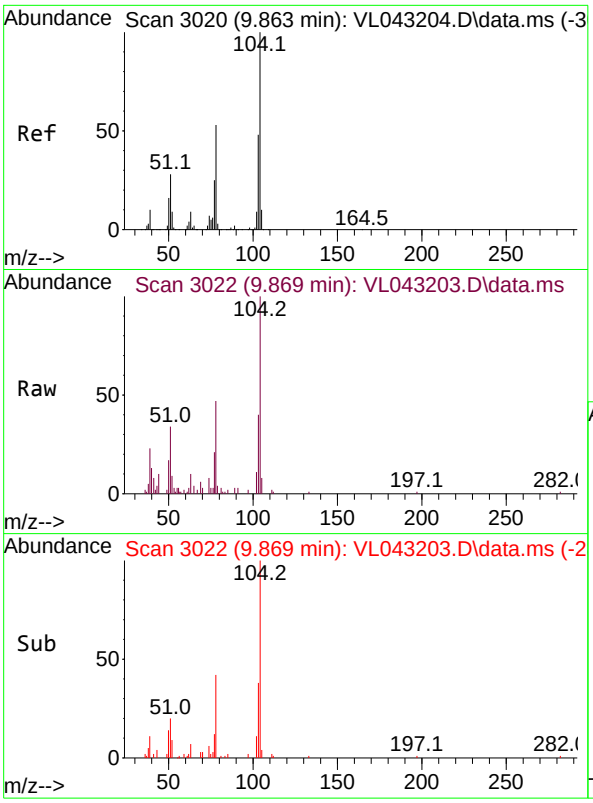


#60
o-Xylene
Concen: 0.514 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 19621

Ion	Ratio	Lower	Upper
91	100		
106	42.0	20.9	62.8

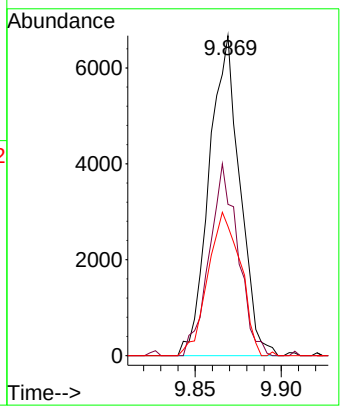




#61
Styrene
Concen: 0.496 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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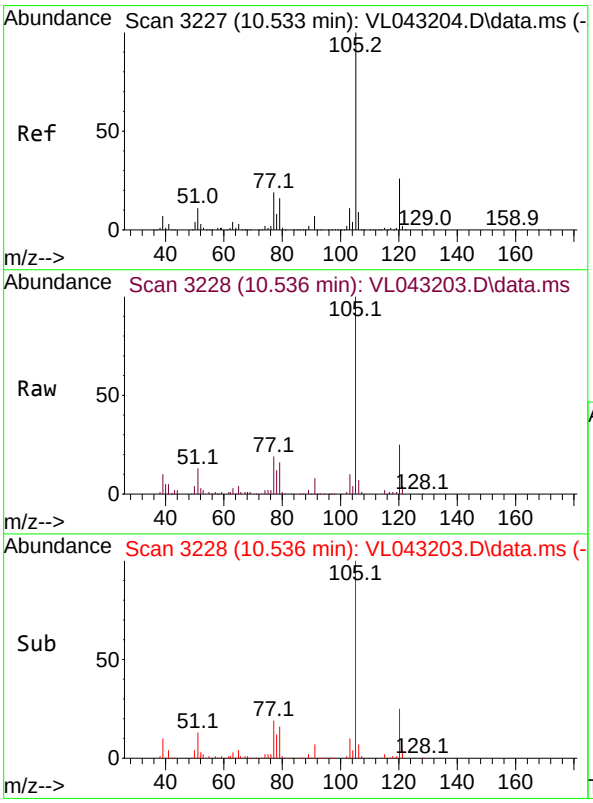
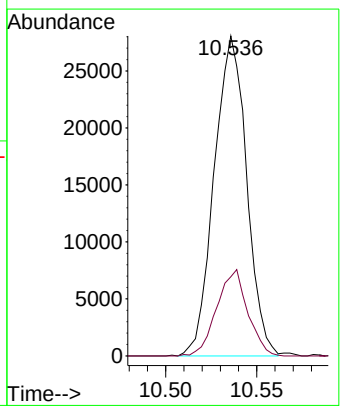
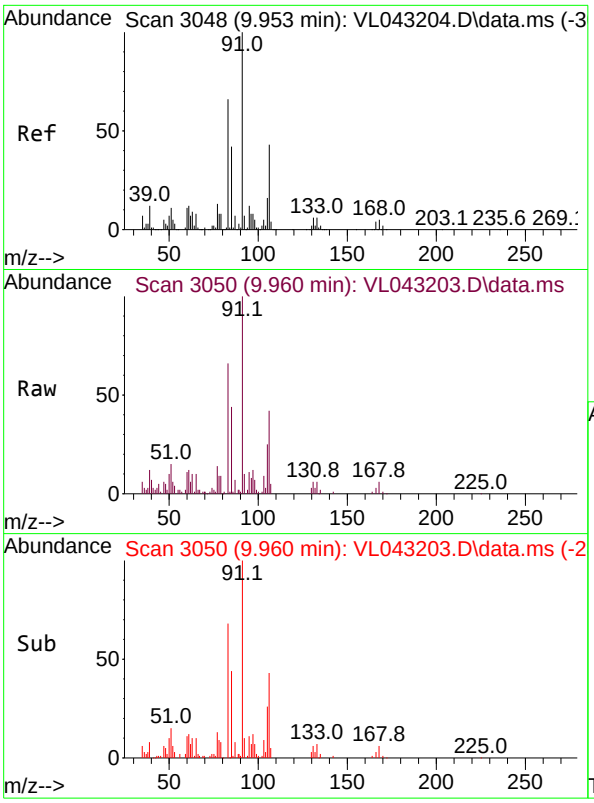


#62
Isopropylbenzene
Concen: 0.509 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

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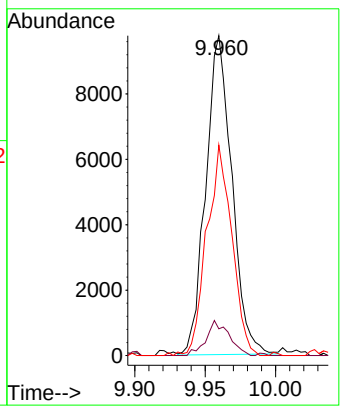
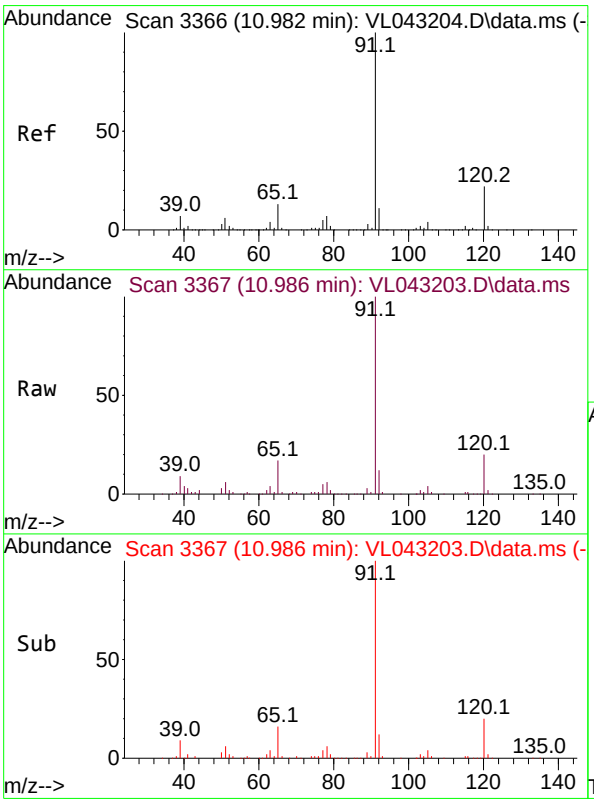
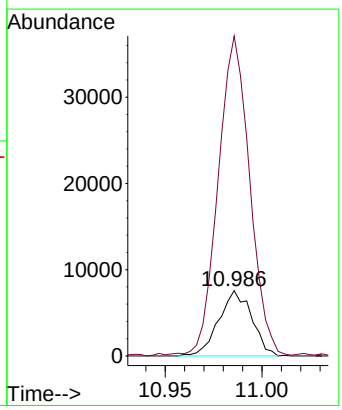


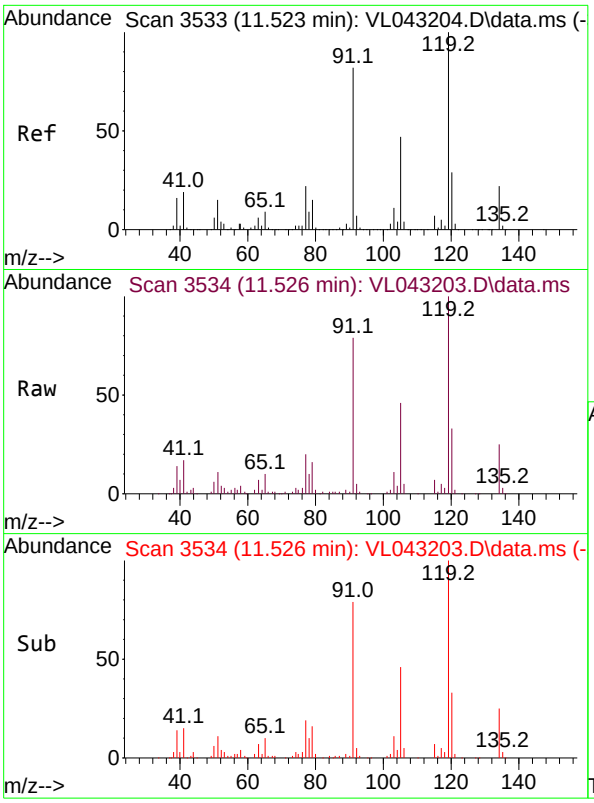


#64
n-propylbenzene
Concen: 0.509 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:120 Resp: 8945

Ion	Ratio	Lower	Upper
120	100		
91	472.3	377.1	565.7

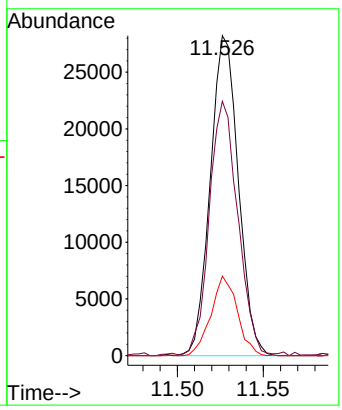




#65
tert-Butylbenzene
Concen: 0.524 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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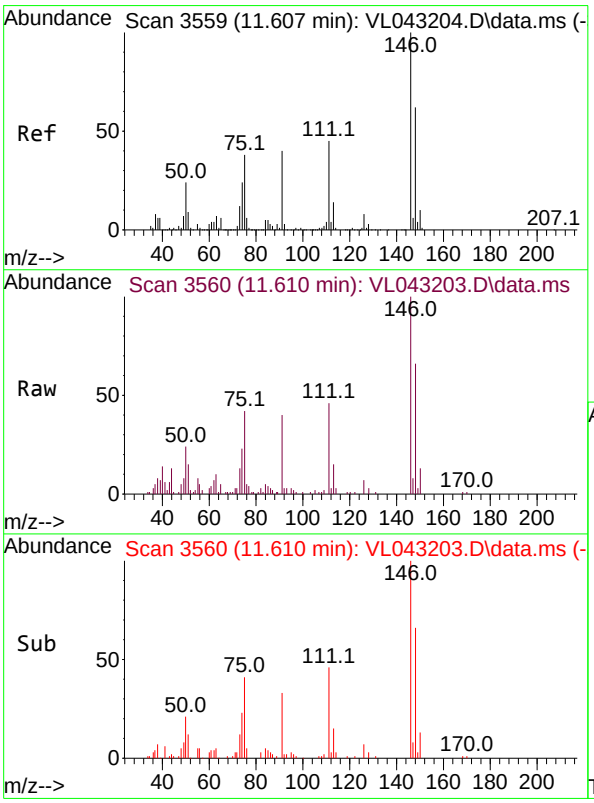
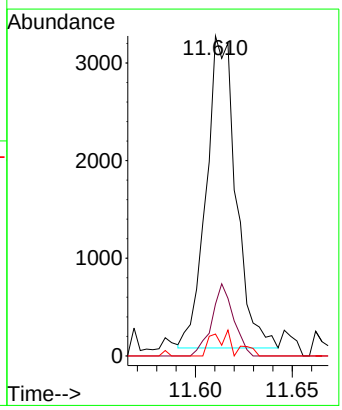
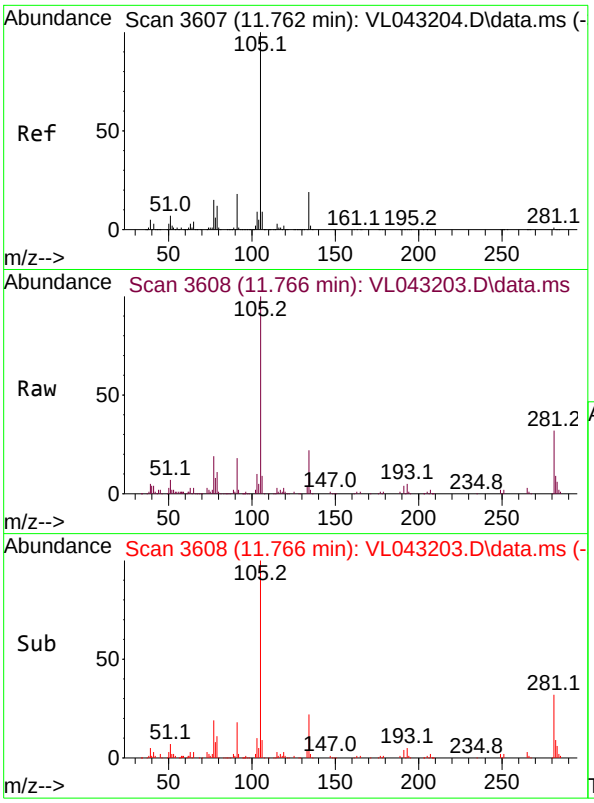


#66
Benzyl Chloride
Concen: 0.550 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

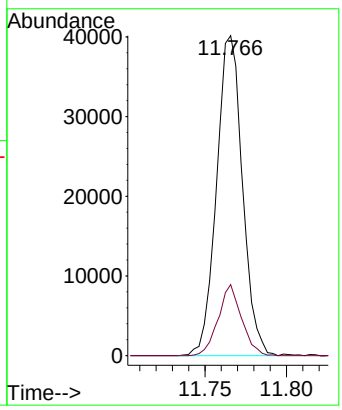




#67
sec-Butylbenzene
Concen: 0.522 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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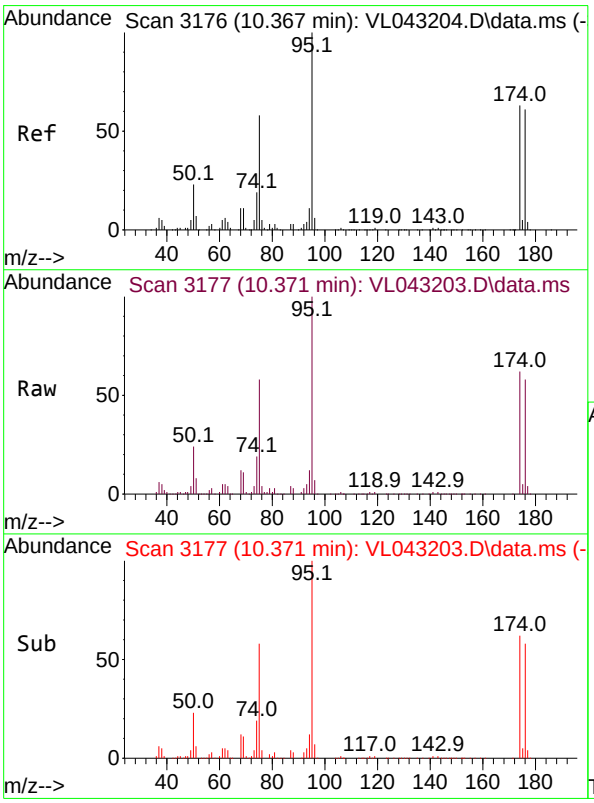
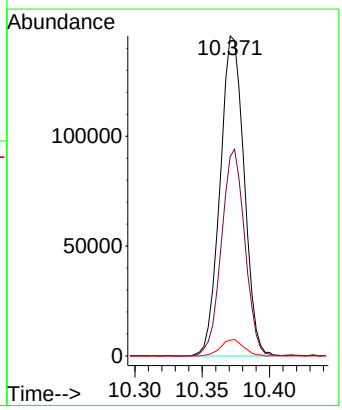
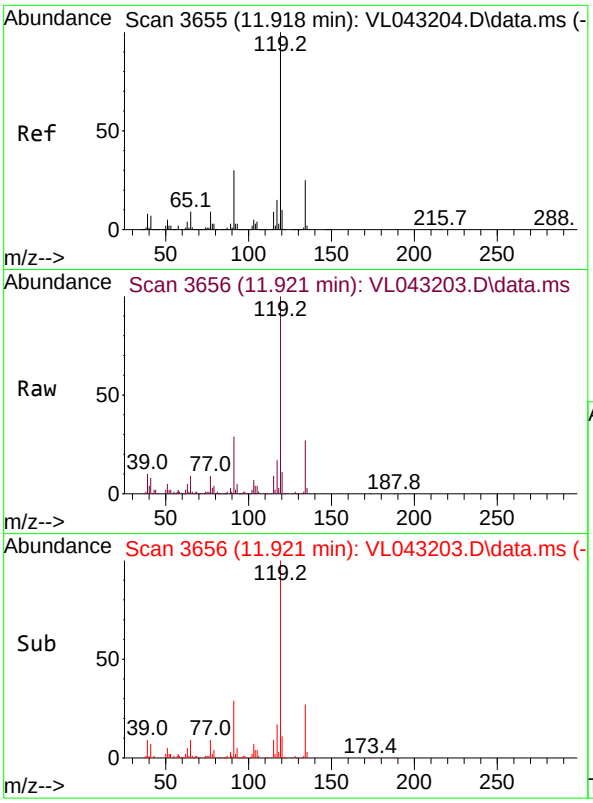


#68
1-Bromo-4-Fluorobenzene
Concen: 9.941 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

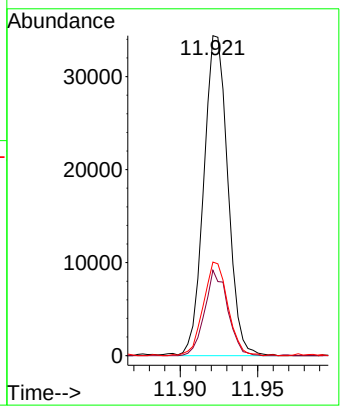




#69
p-Isopropyltoluene
Concen: 0.514 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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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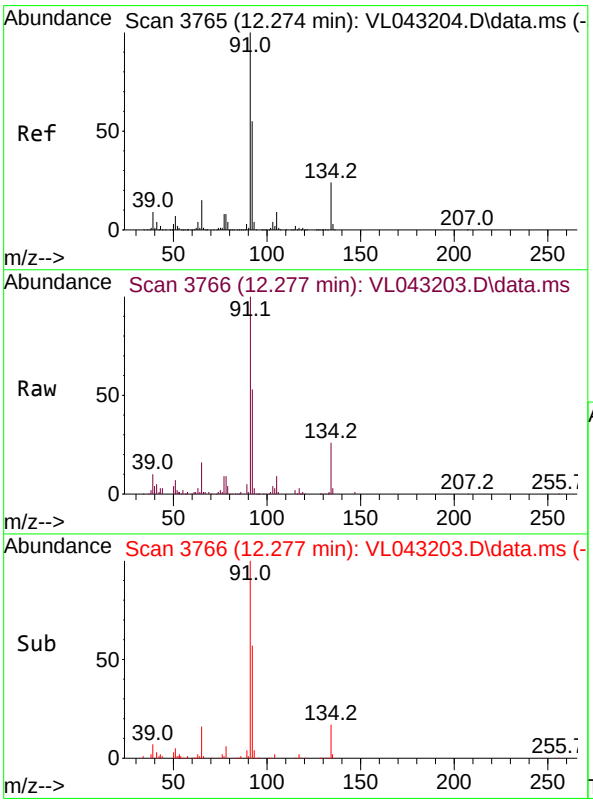
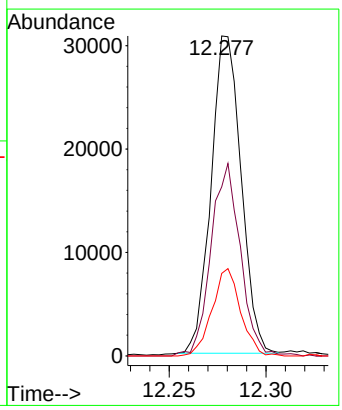
Supervised By :Mahesh Dadoda 11/19/2025

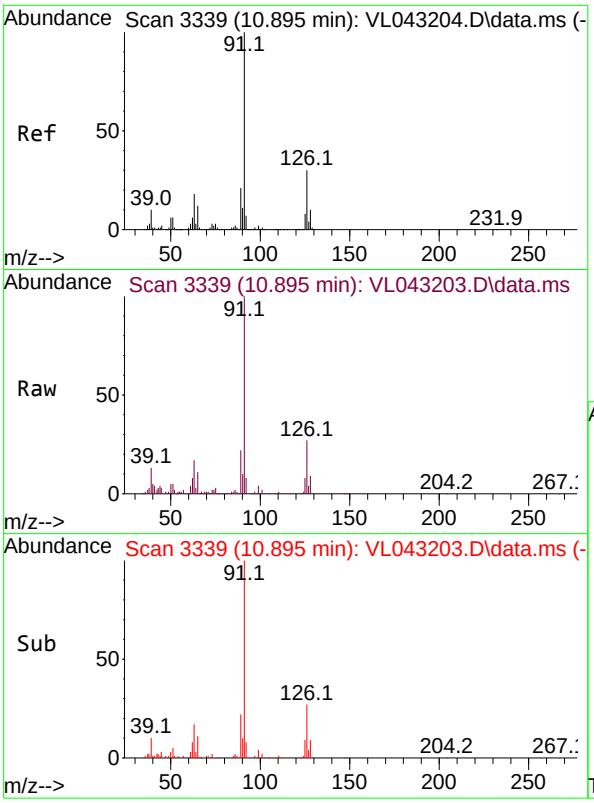


#70
n-Butylbenzene
Concen: 0.474 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

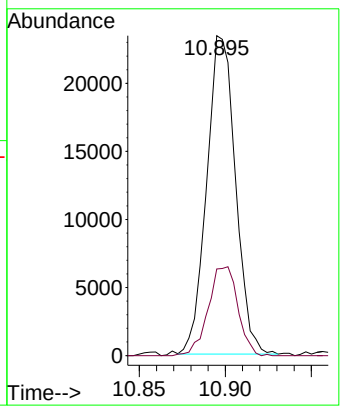




#71
2-Chlorotoluene
Concen: 0.518 ppbv
RT: 10.895 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 2722

Ion	Ratio	Lower	Upper
91	100		
126	28.6	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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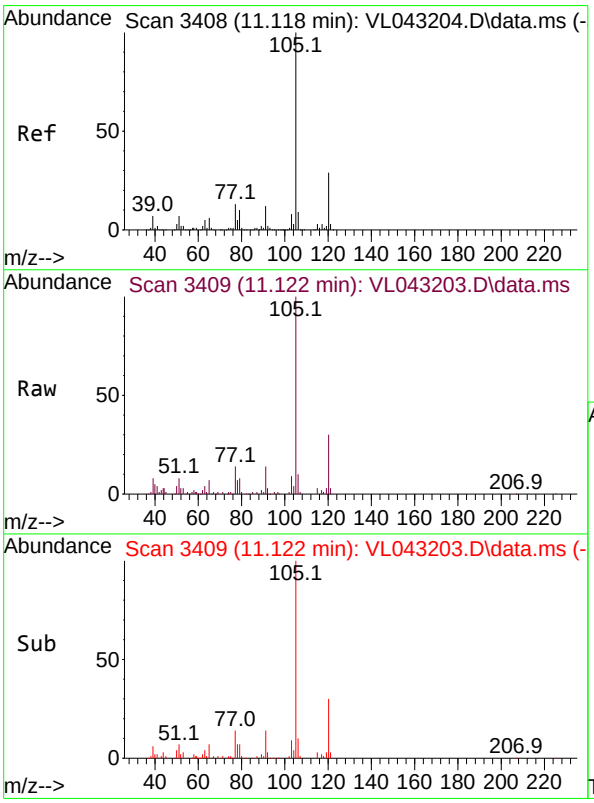
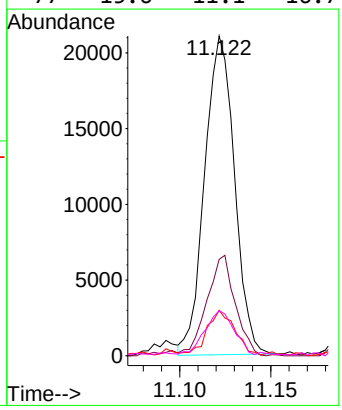
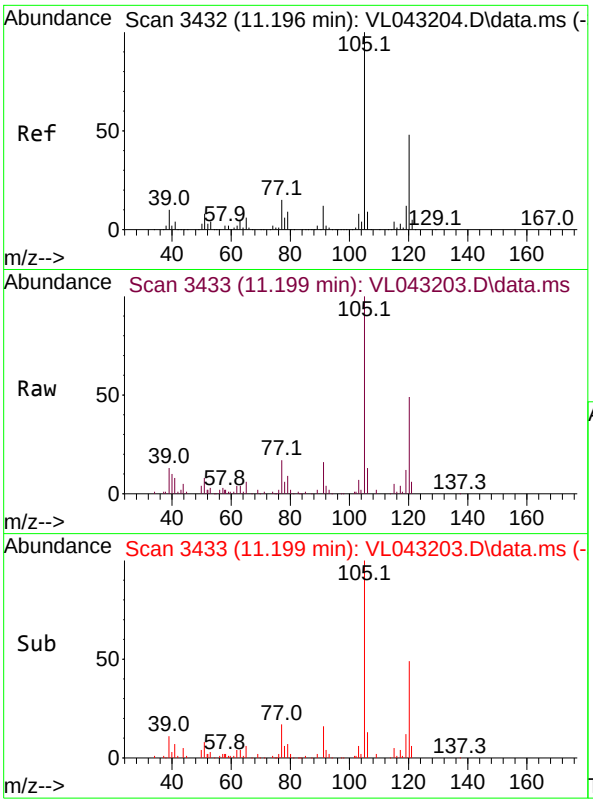


#72
4-Ethyltoluene
Concen: 0.515 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

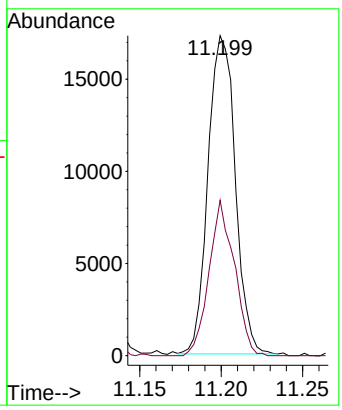




#73
1,3,5-Trimethylbenzene
Concen: 0.515 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:105 Resp: 2010

Ion	Ratio	Lower	Upper
105	100		
120	48.8	38.6	57.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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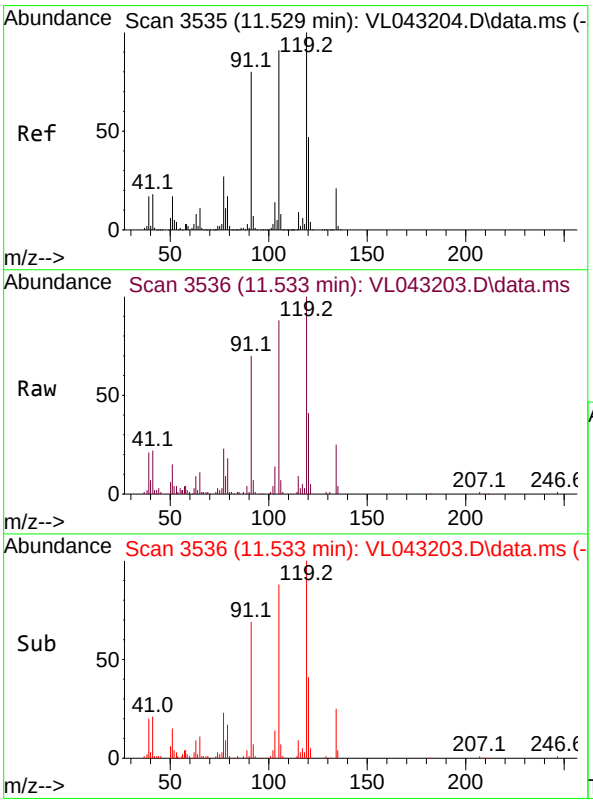
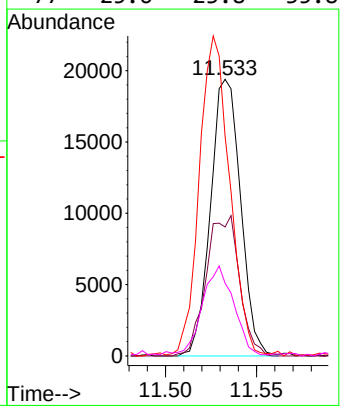
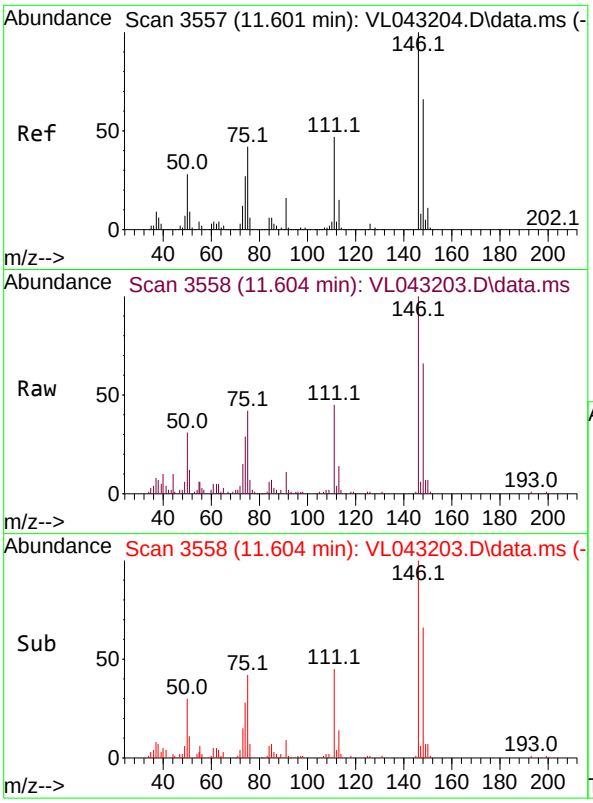


#74
1,2,4-Trimethylbenzene
Concen: 0.522 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

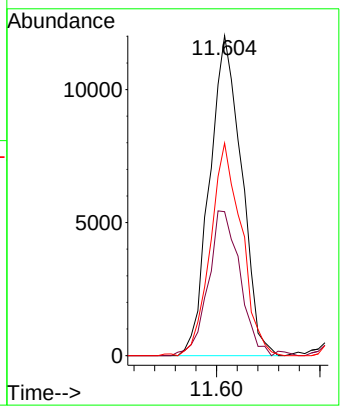




#75
1,3-Dichlorobenzene
Concen: 0.520 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

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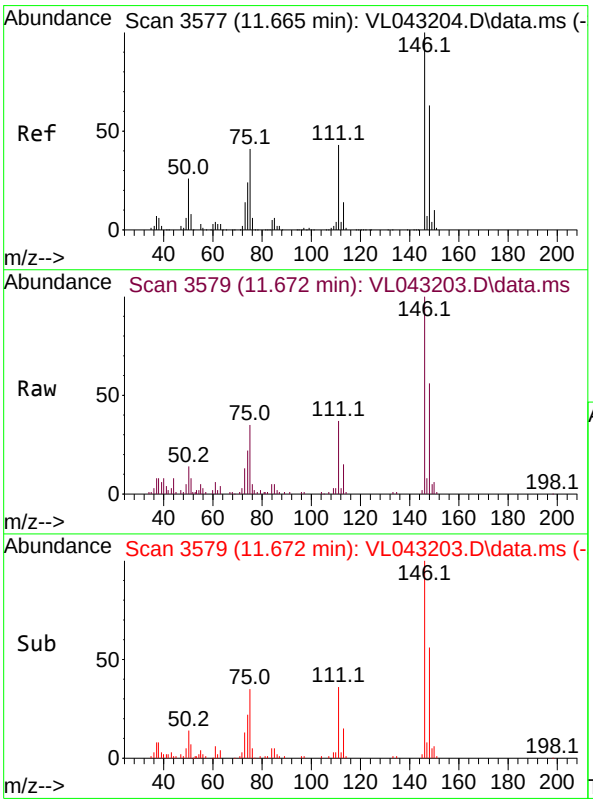
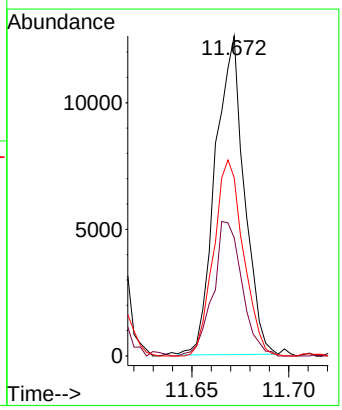
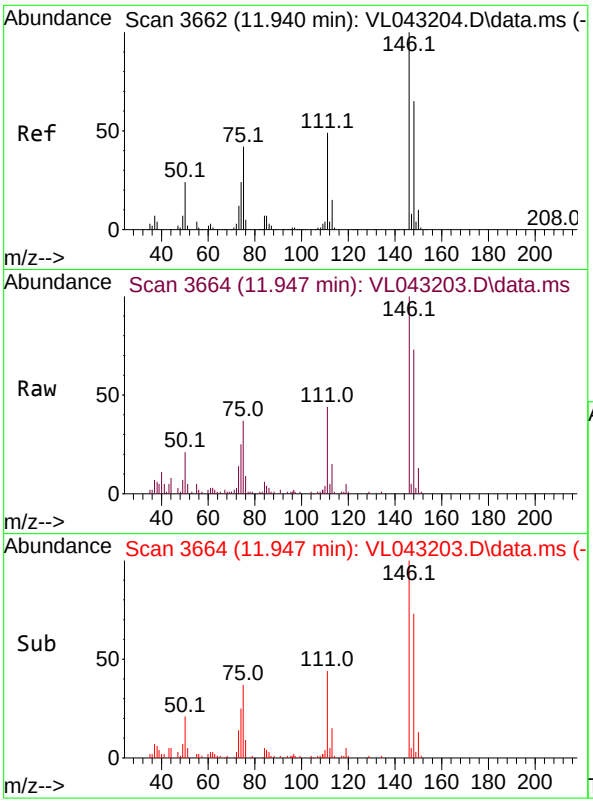


#76
1,4-Dichlorobenzene
Concen: 0.526 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

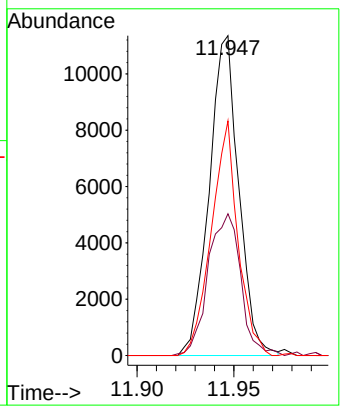




#77
1,2-Dichlorobenzene
Concen: 0.505 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:146 Resp: 1206

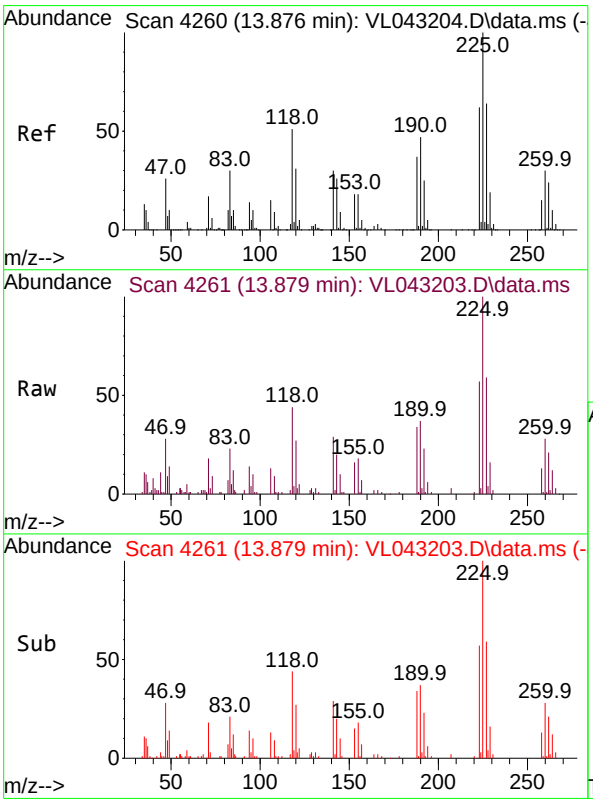
Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.3	73.0
148	66.3	31.6	94.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

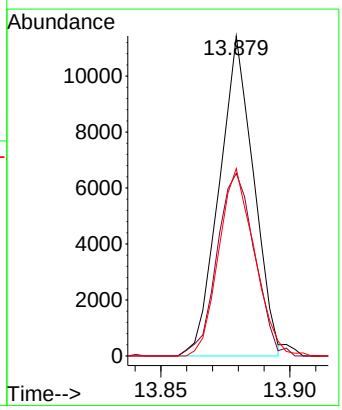
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

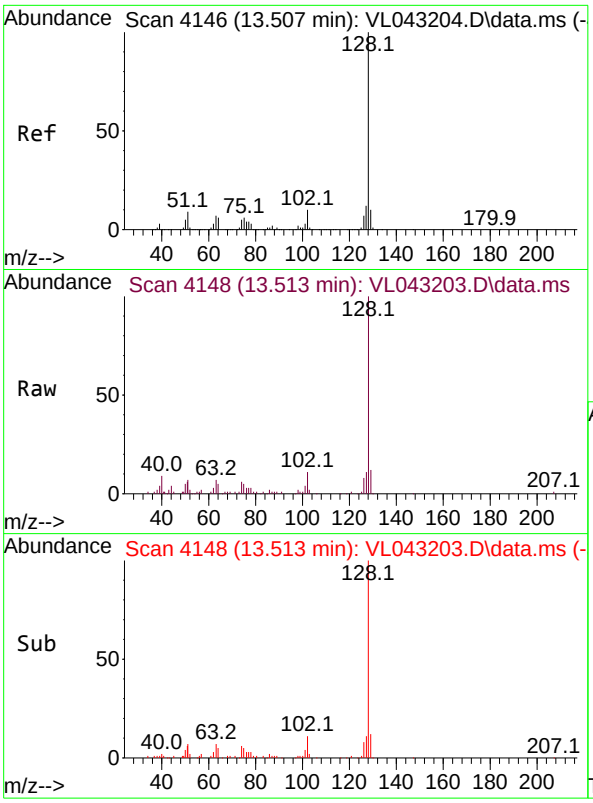


#78
Hexachloro-1,3-Butadiene
Concen: 0.530 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

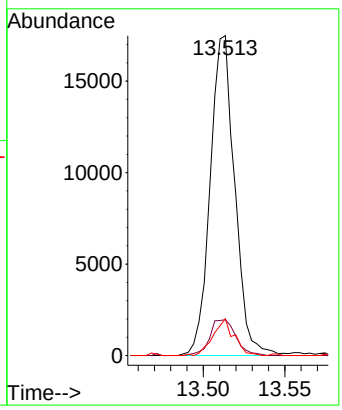




#79
Naphthalene
Concen: 0.486 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:128 Resp: 1837

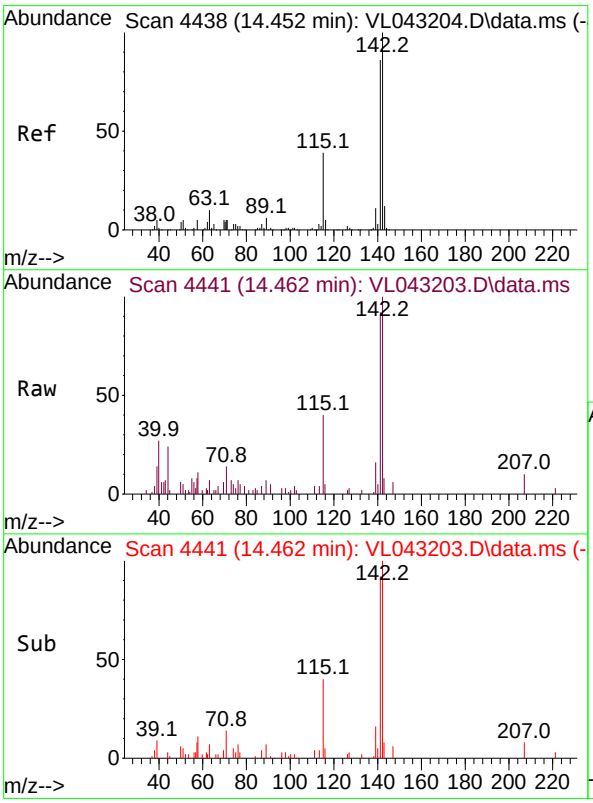
Ion	Ratio	Lower	Upper
128	100		
127	11.2	9.9	14.9
129	11.5	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

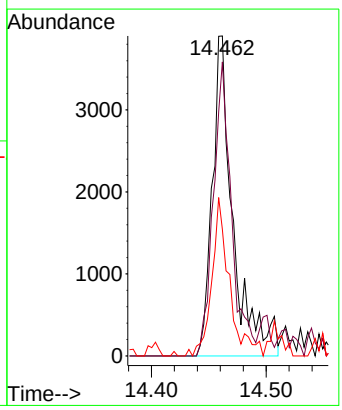
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

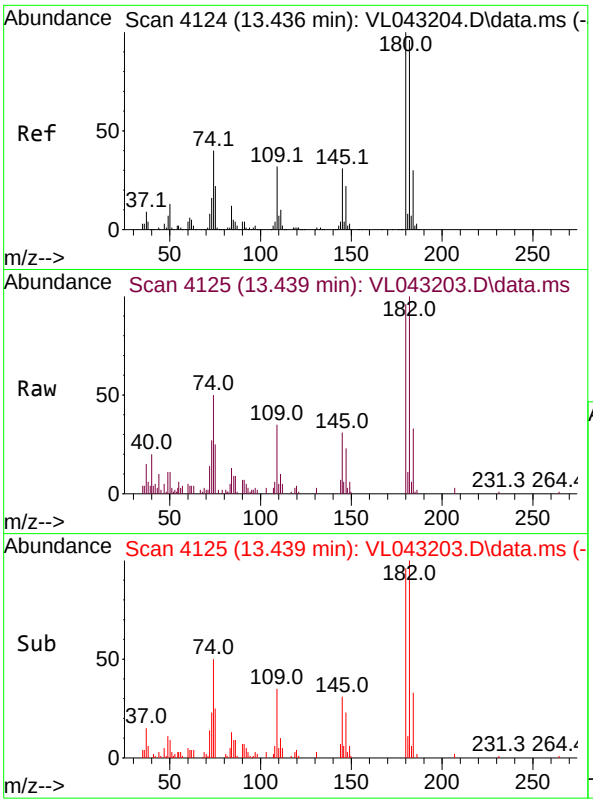


#80
Naphthalene,2-methyl-
Concen: 0.495 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

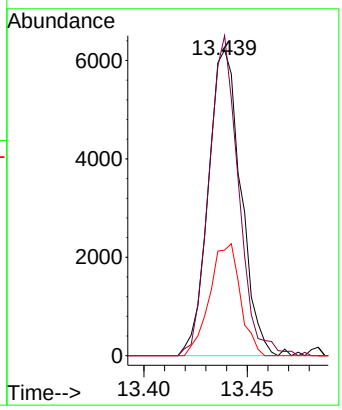




#81
1,2,4-Trichlorobenzene
Concen: 0.402 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

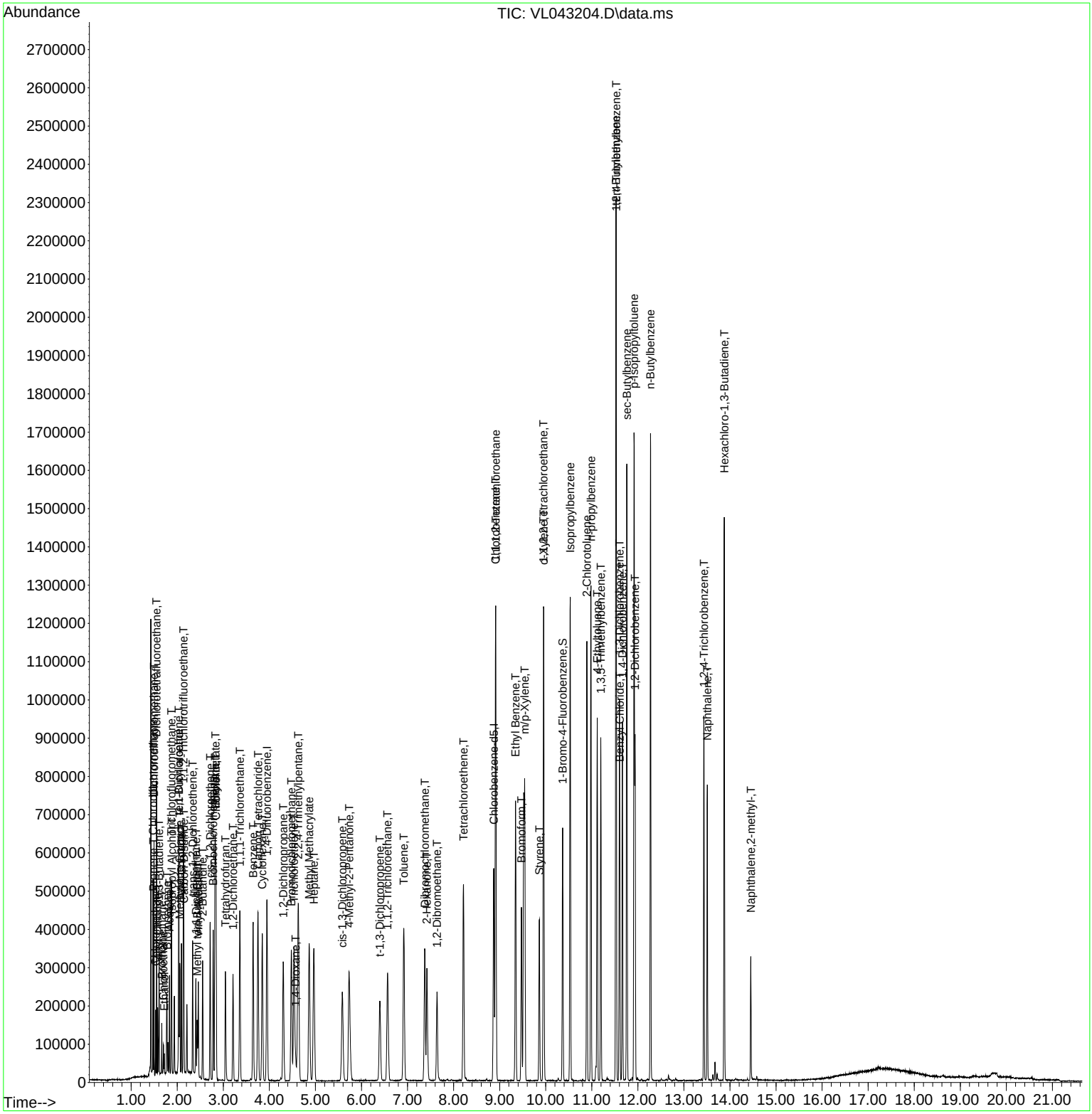
(#) = qualifier out of range (m) = manual integration (+) = signals summed

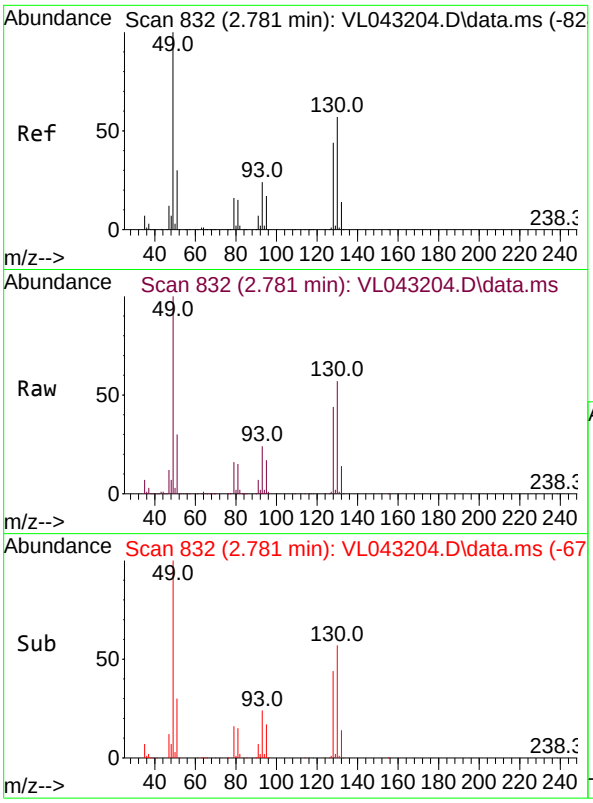
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043204.D
Acq On : 18 Nov 2025 10:02
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

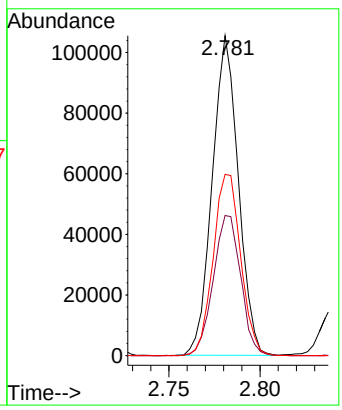




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 49 Resp: 10509

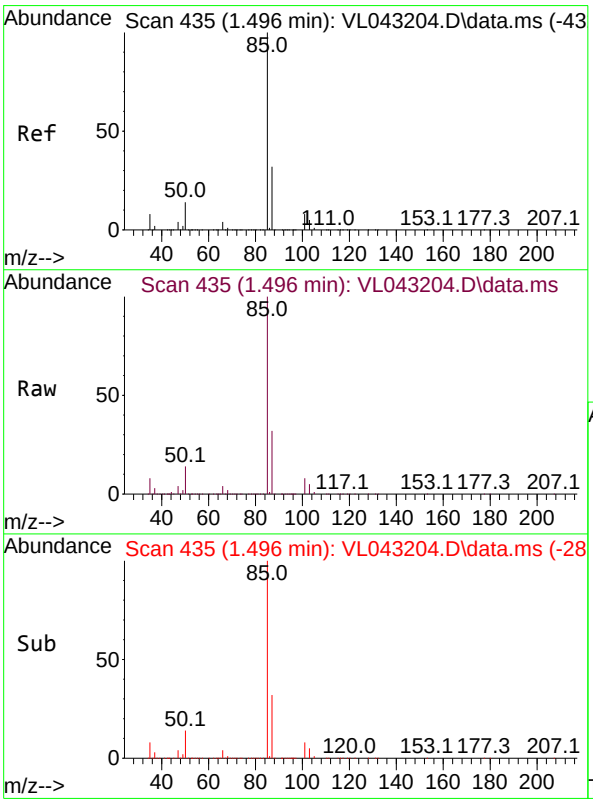
Ion	Ratio	Lower	Upper
49	100		
128	46.0	23.0	69.0
130	59.8	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

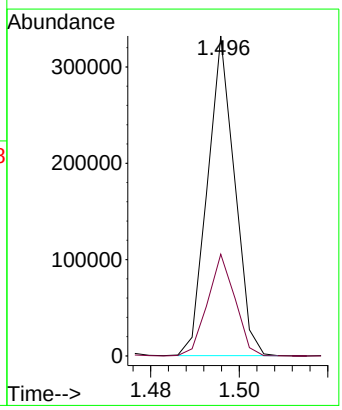
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

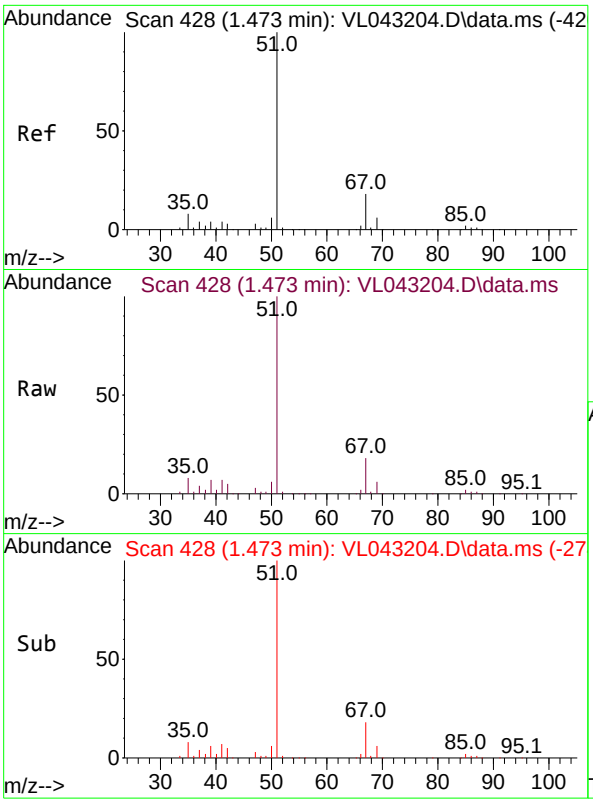


#2
Dichlorodifluoromethane
Concen: 9.498 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 85 Resp: 140789

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.4	38.2

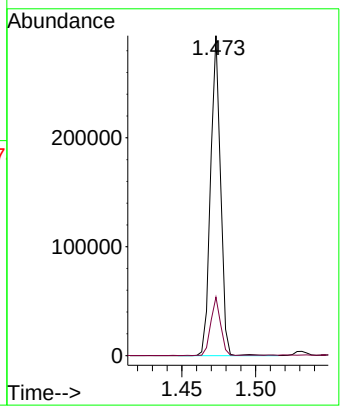




#3
Chlorodifluoromethane
Concen: 9.497 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 51 Resp: 13844

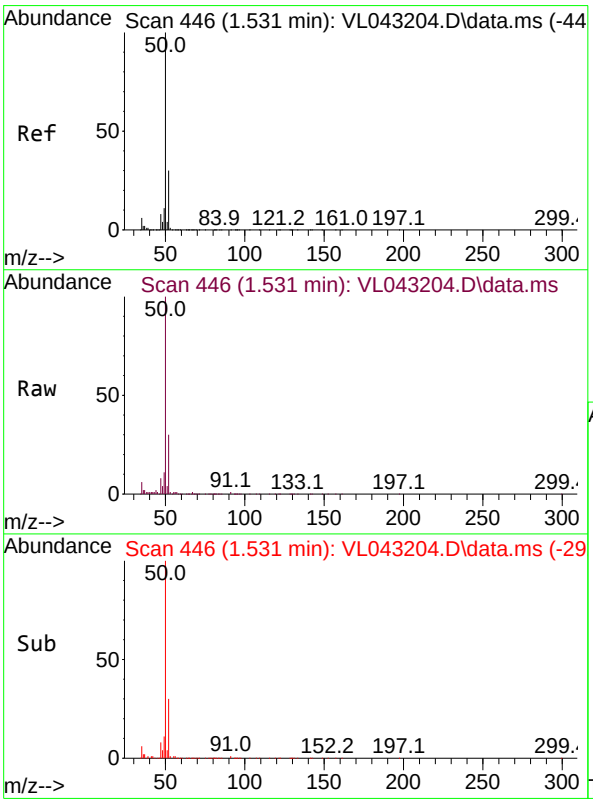
Ion	Ratio	Lower	Upper
51	100		
67	18.6	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

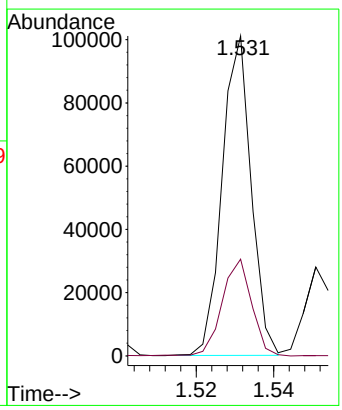
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

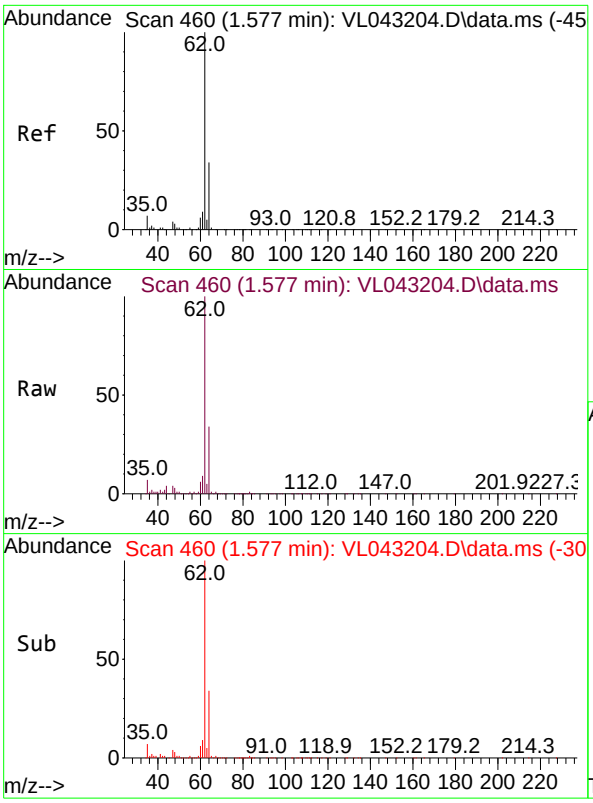


#4
Chloromethane
Concen: 9.450 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 50 Resp: 52372

Ion	Ratio	Lower	Upper
50	100		
52	30.1	24.1	36.1

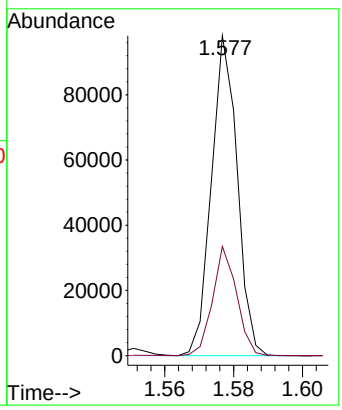




#5
Vinyl Chloride
Concen: 8.422 ppbv
RT: 1.577 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 62 Resp: 5104

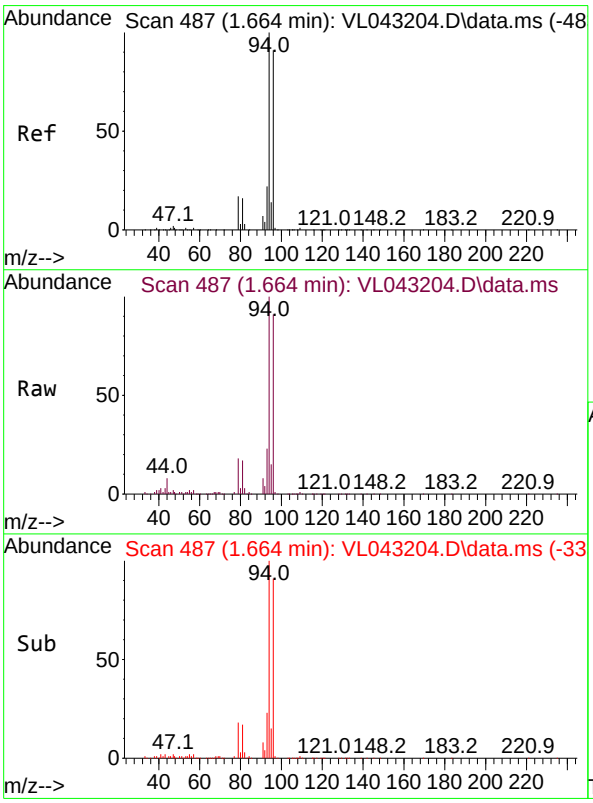
Ion	Ratio	Lower	Upper
62	100		
64	34.1	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

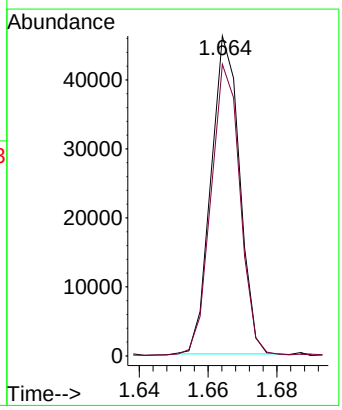
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

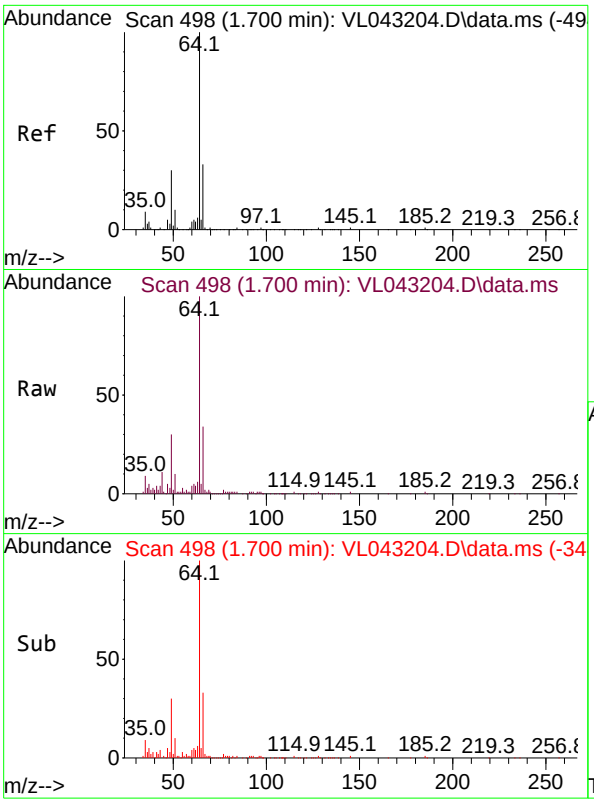


#6
Bromomethane
Concen: 9.034 ppbv
RT: 1.664 min Scan# 487
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 94 Resp: 26542

Ion	Ratio	Lower	Upper
94	100		
96	91.1	72.9	109.3

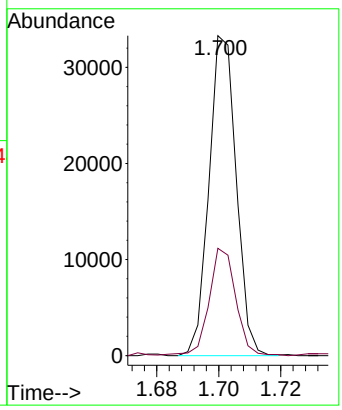




#7
Chloroethane
Concen: 8.632 ppbv
RT: 1.700 min Scan# 49
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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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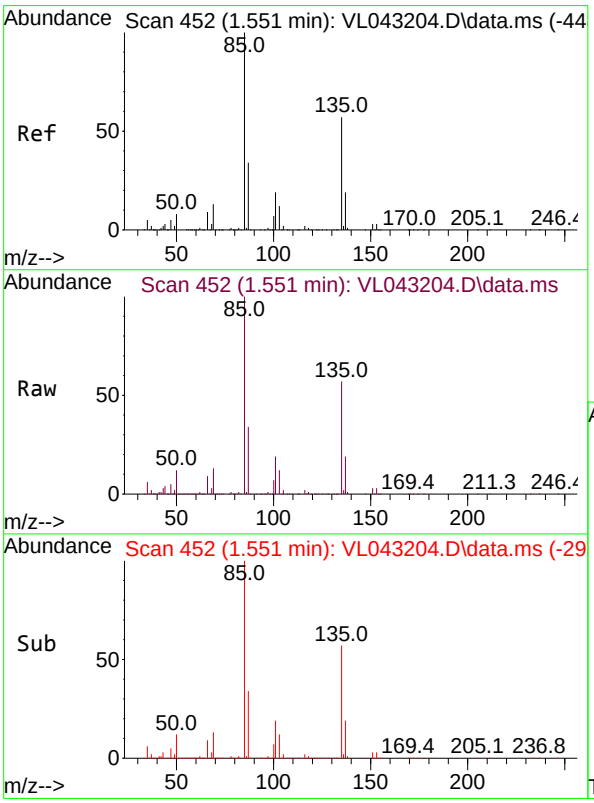
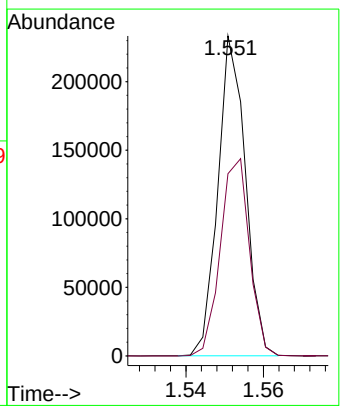
Supervised By :Mahesh Dadoda 11/19/2025

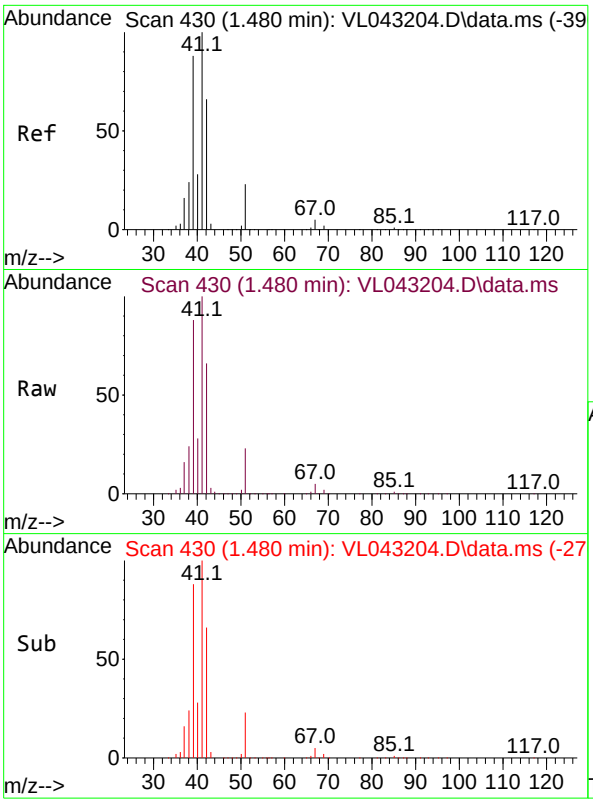


#8
Dichlorotetrafluoroethane
Concen: 9.300 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 85 Resp: 114670

Ion	Ratio	Lower	Upper
85	100		
135	65.8	52.6	79.0

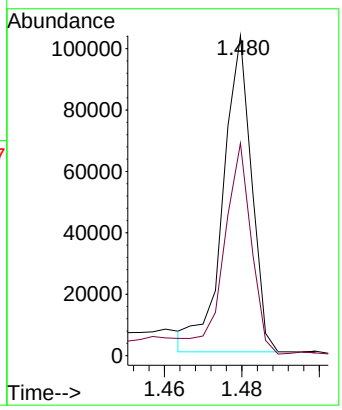




#9
Propene
Concen: 7.789 ppbv
RT: 1.480 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 41 Resp: 5267

Ion	Ratio	Lower	Upper
41	100		
42	105.2	3.7	5.5#



Instrument :
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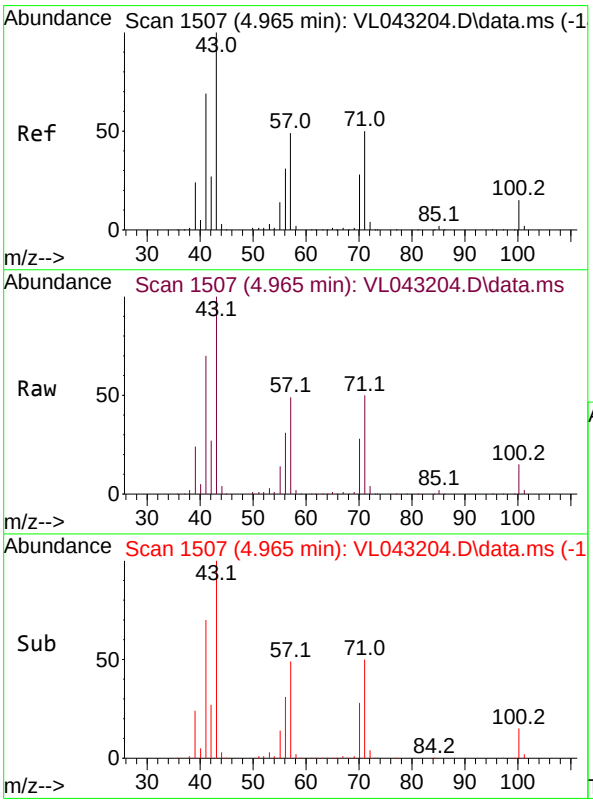
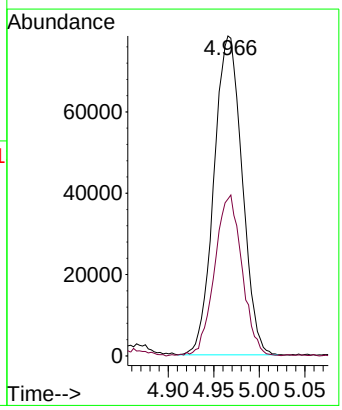
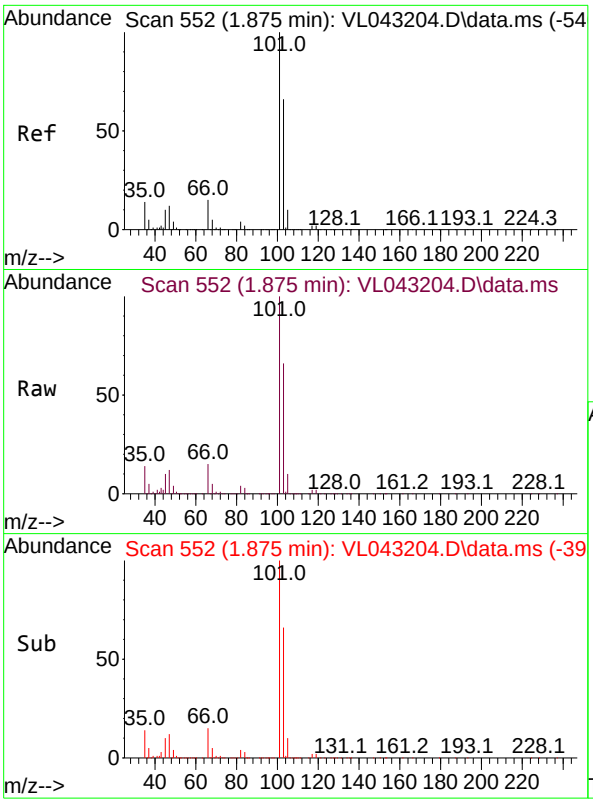


#10
Heptane
Concen: 9.090 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 168611

Ion	Ratio	Lower	Upper
43	100		
57	49.6	39.7	59.5

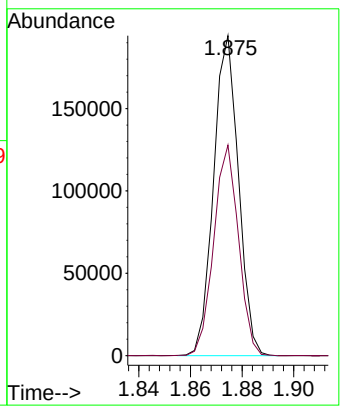




#11
Trichlorofluoromethane
Concen: 9.077 ppbv
RT: 1.875 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:101 Resp: 13036

Ion	Ratio	Lower	Upper
101	100		
103	65.8	52.6	79.0



Instrument :
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ClientSampleId :
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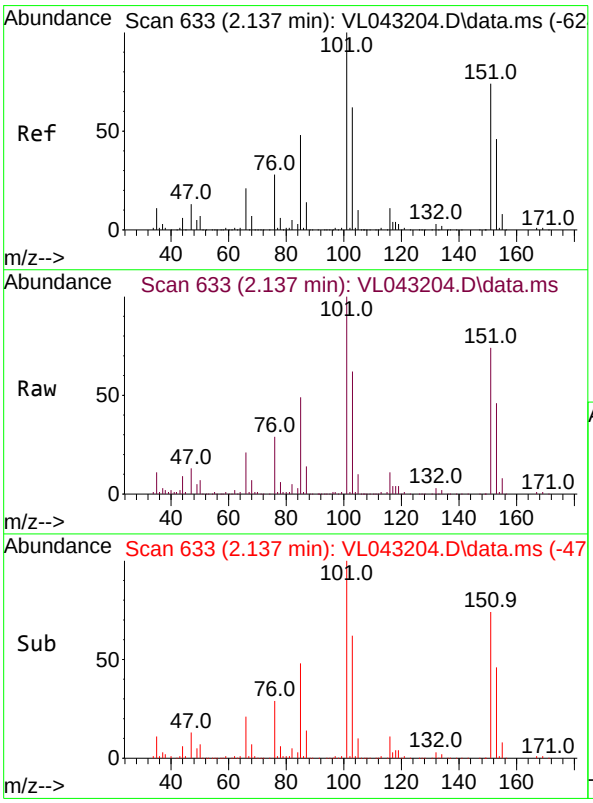
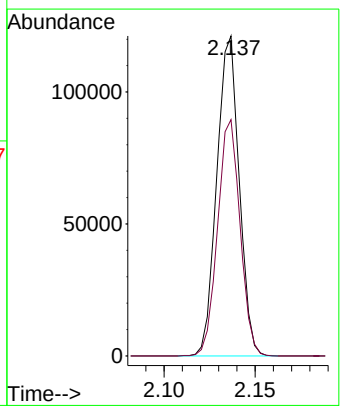
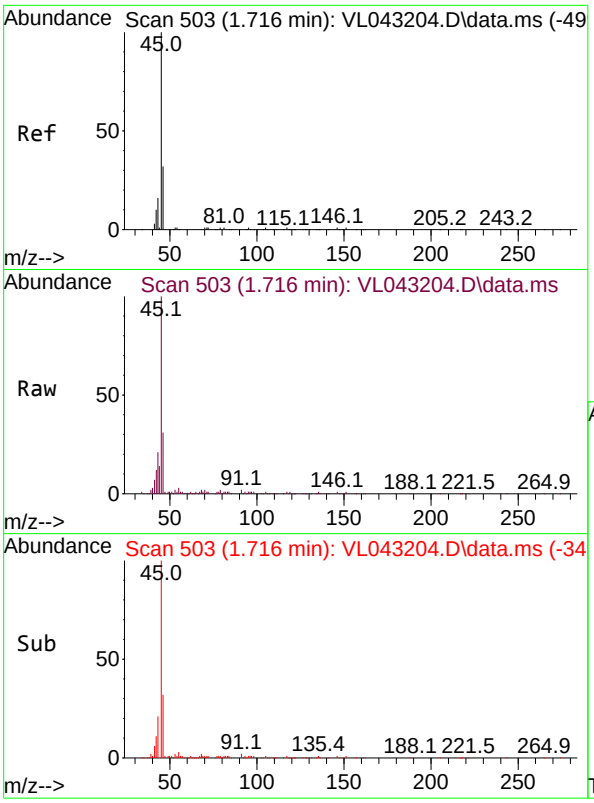


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.247 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:101 Resp: 103679

Ion	Ratio	Lower	Upper
101	100		
151	74.0	59.2	88.8

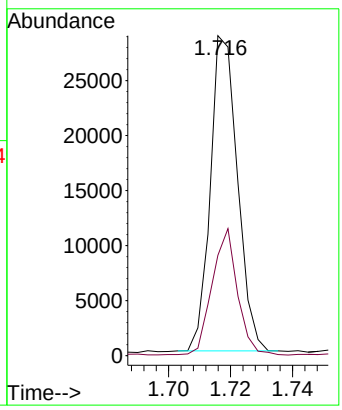




#13
Ethanol
Concen: 8.023 ppbv
RT: 1.716 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 45 Resp: 1746

Ion	Ratio	Lower	Upper
45	100		
46	37.4	15.0	59.8



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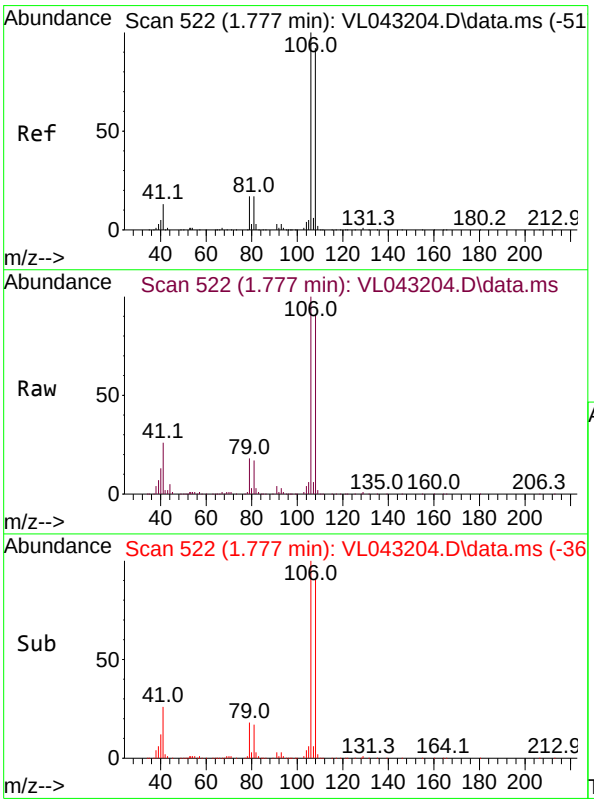
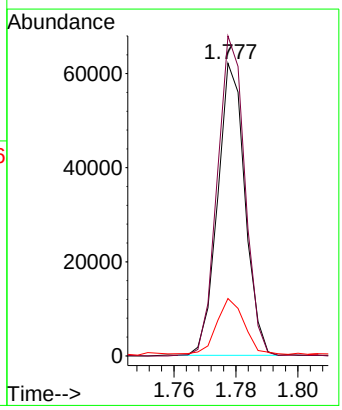
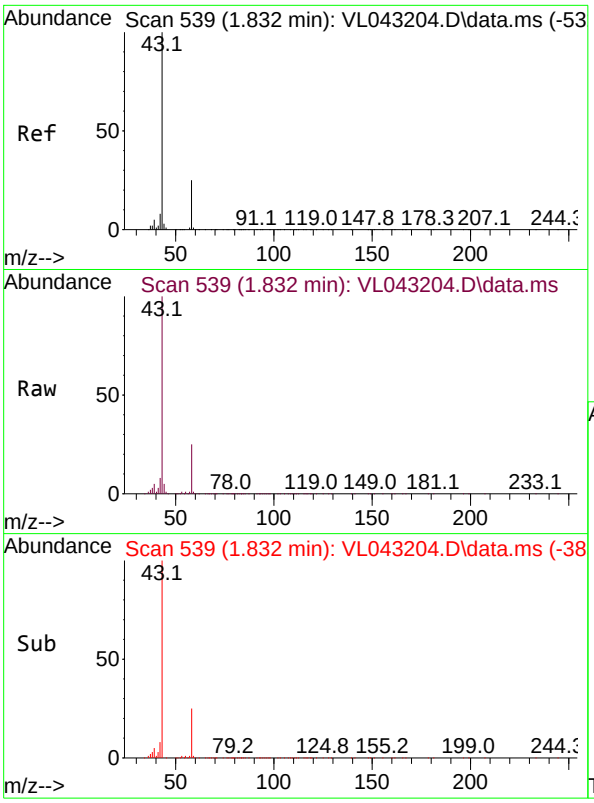


#14
Bromoethene
Concen: 8.849 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

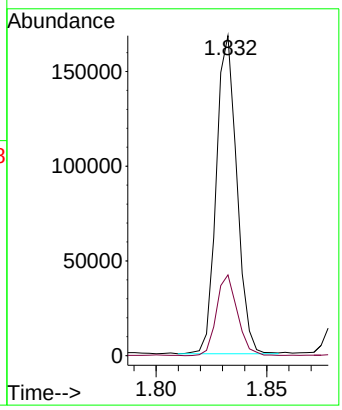




#15
Acetone
Concen: 7.426 ppbv
RT: 1.832 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 10842

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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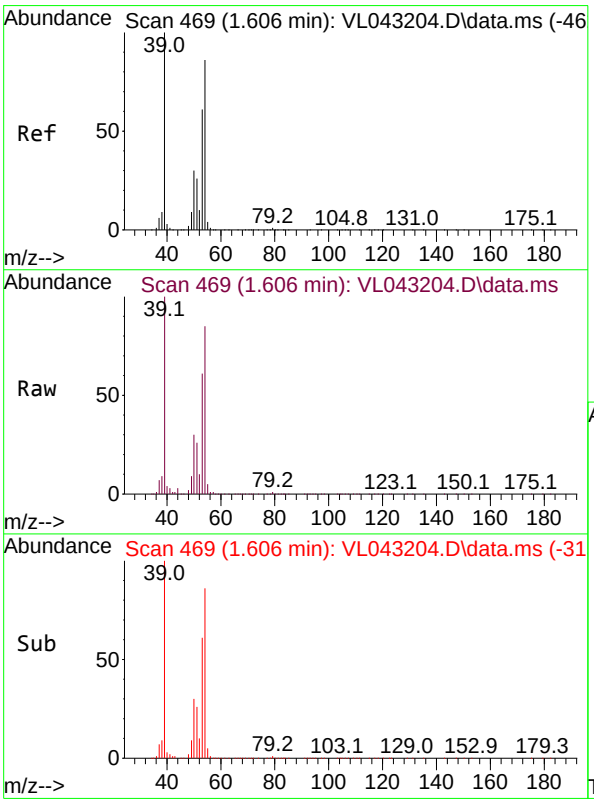
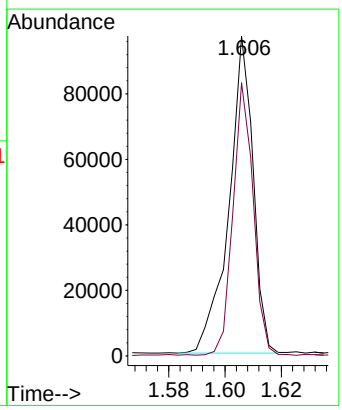
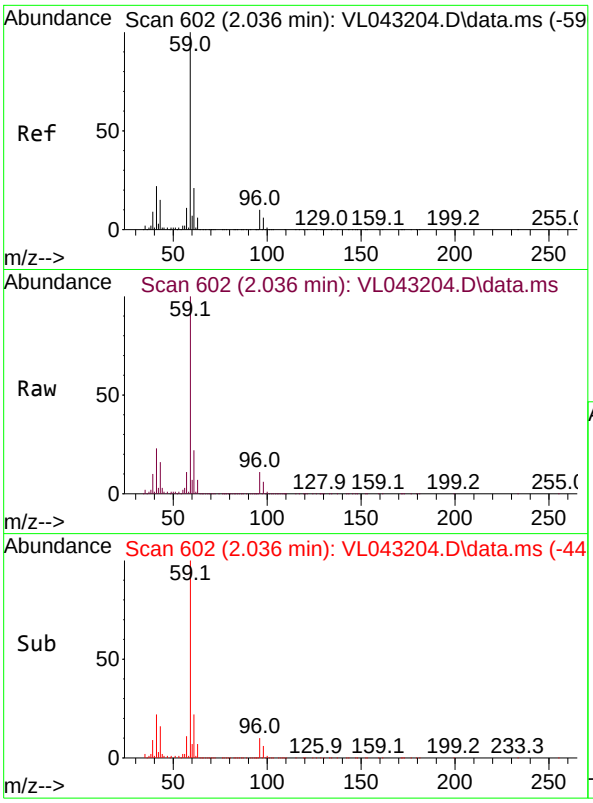


#16
1,3-Butadiene
Concen: 8.890 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 39 Resp: 57871

Ion	Ratio	Lower	Upper
39	100		
54	74.3	59.4	89.2

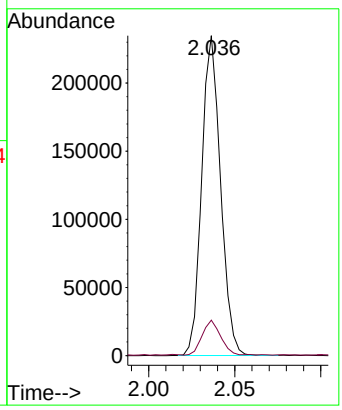




#17
tert-Butyl alcohol
Concen: 9.350 ppbv
RT: 2.036 min Scan# 6(
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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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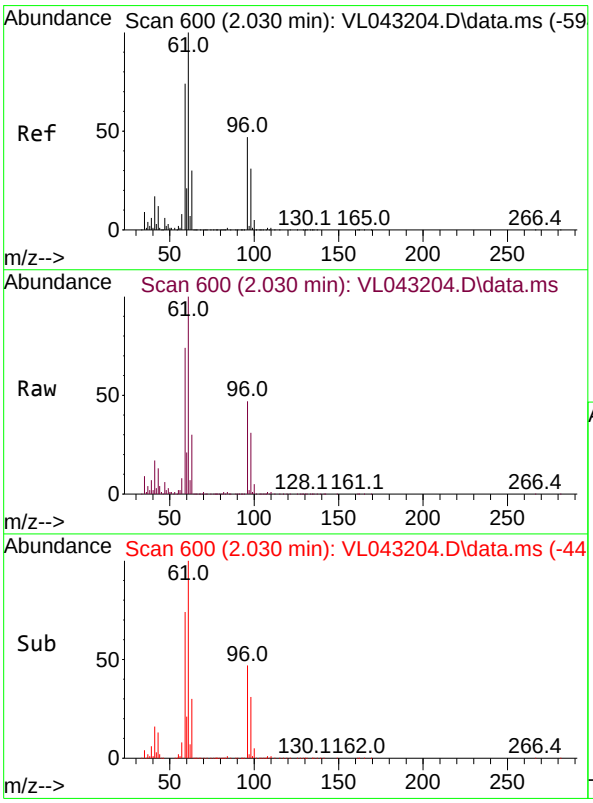
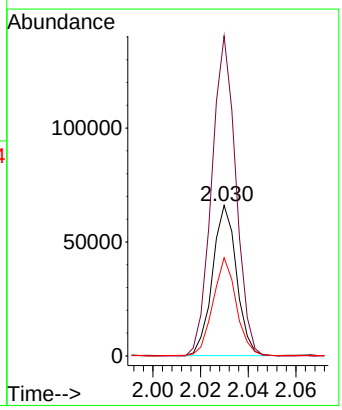
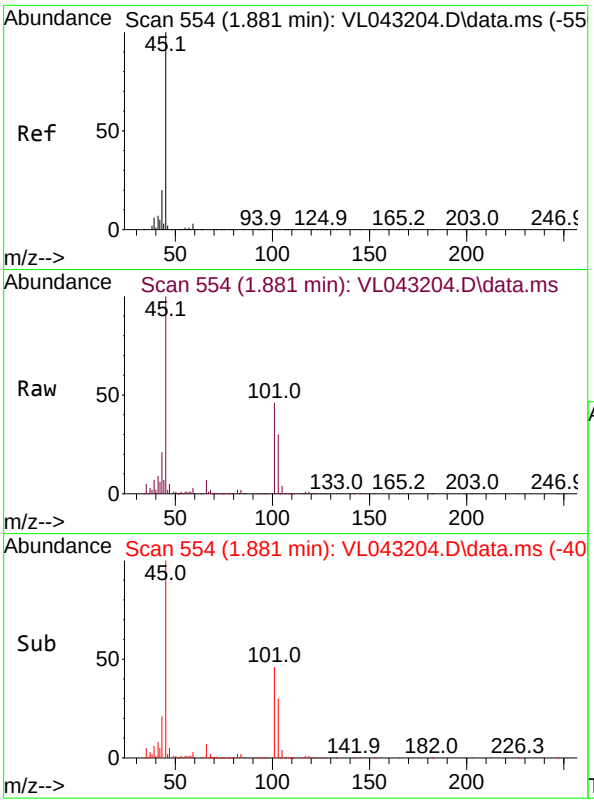


#18
1,1-Dichloroethene
Concen: 8.871 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

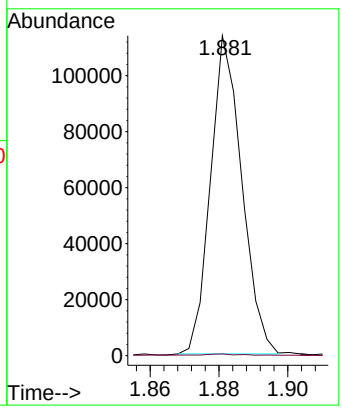




#19
Isopropyl Alcohol
Concen: 8.710 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 45 Resp: 7186

Ion	Ratio	Lower	Upper
45	100		
58	39.1	31.3	46.9



Instrument :
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ClientSampleId :
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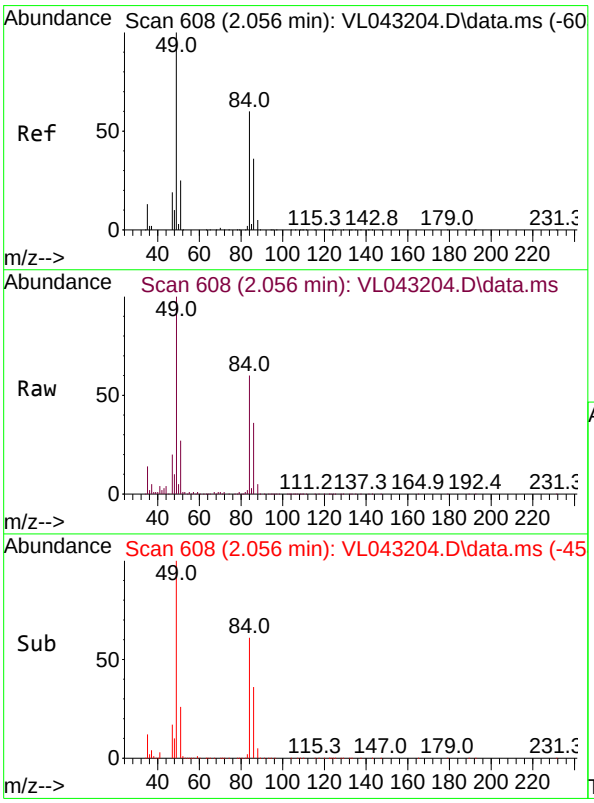
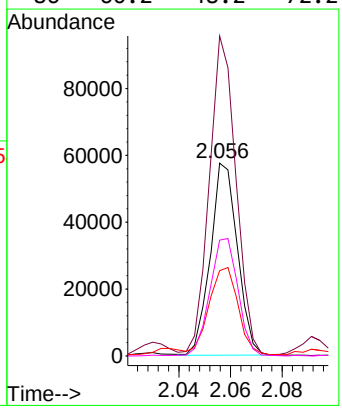
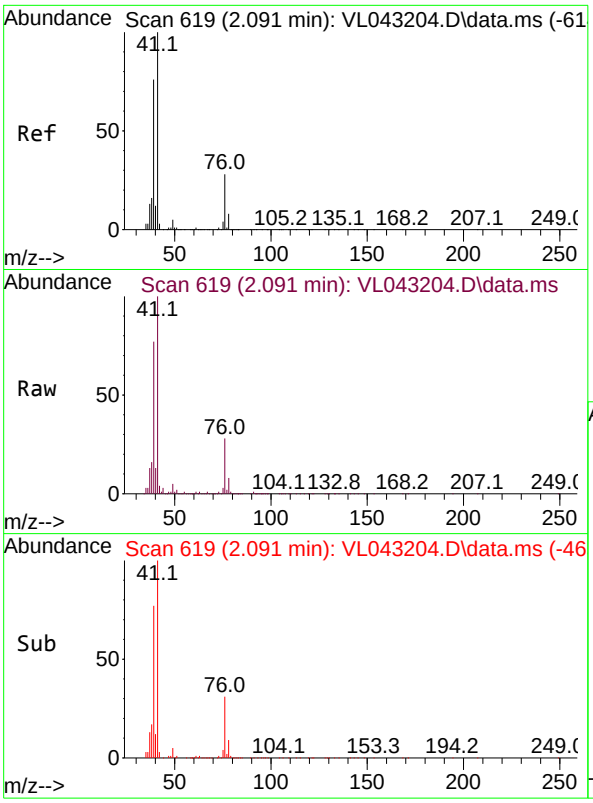


#20
Methylene Chloride
Concen: 9.708 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

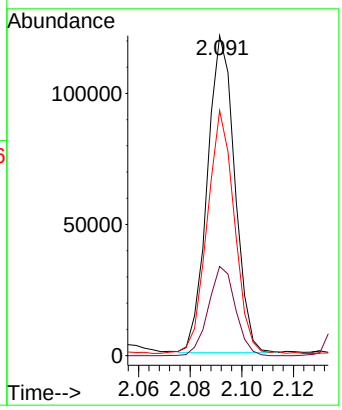




#21
Allyl Chloride
Concen: 9.087 ppbv
RT: 2.091 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



Instrument :
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ClientSampleId :
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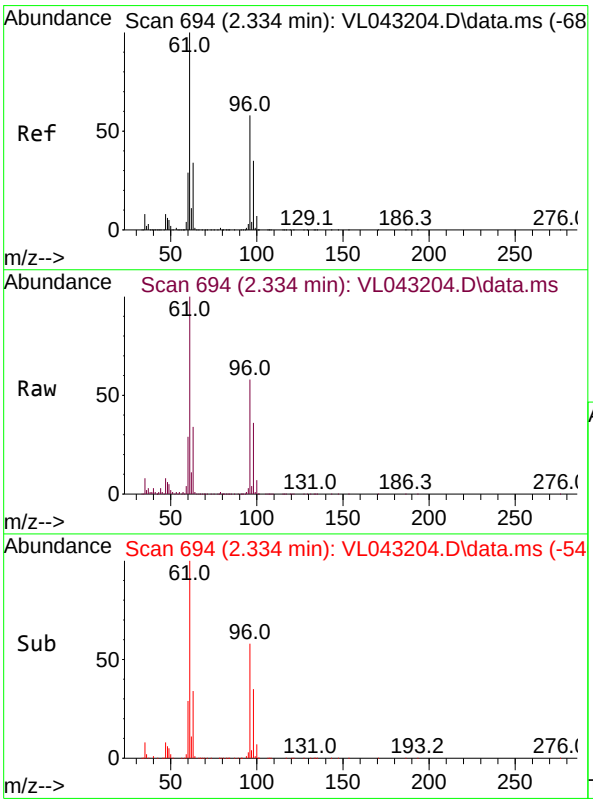
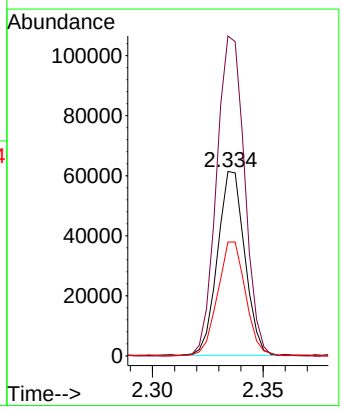
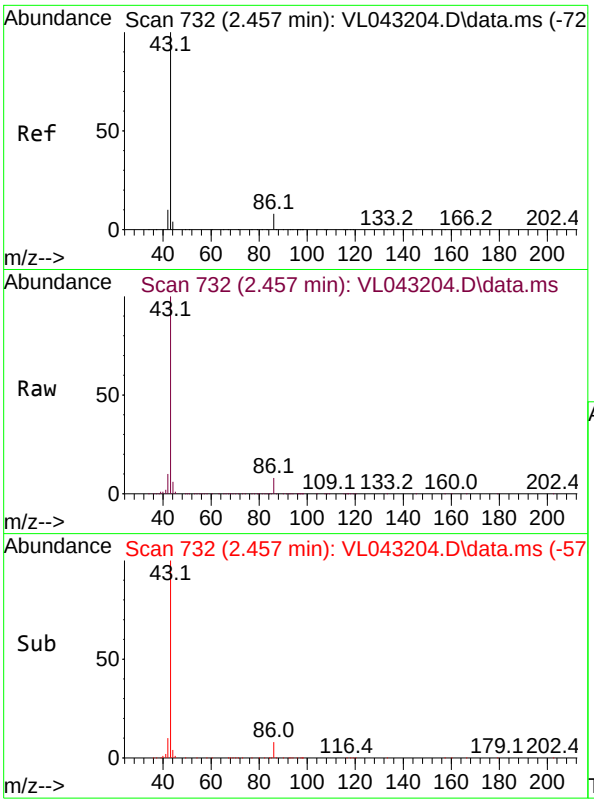


#22
trans-1,2-Dichloroethene
Concen: 8.793 ppbv
RT: 2.334 min Scan# 694
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

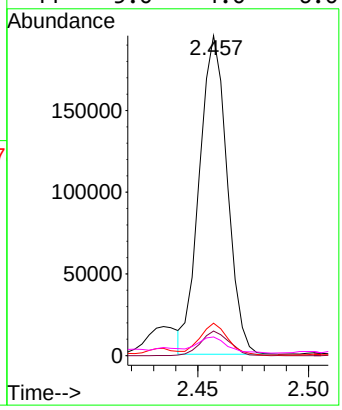




#23
Vinyl Acetate
Concen: 9.670 ppbv
RT: 2.457 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
MSVOA_L
ClientSampleId :
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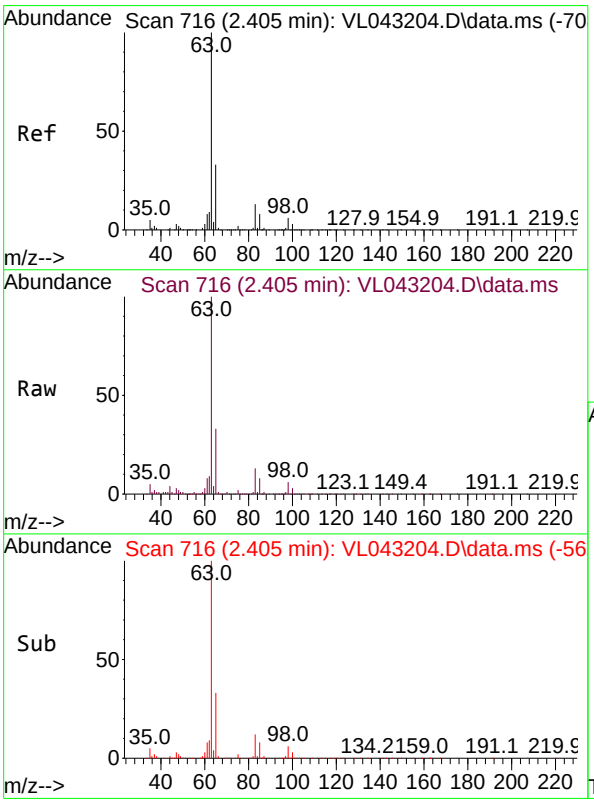
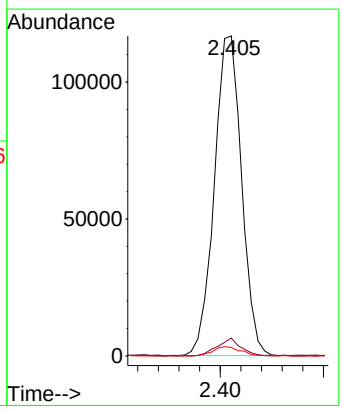
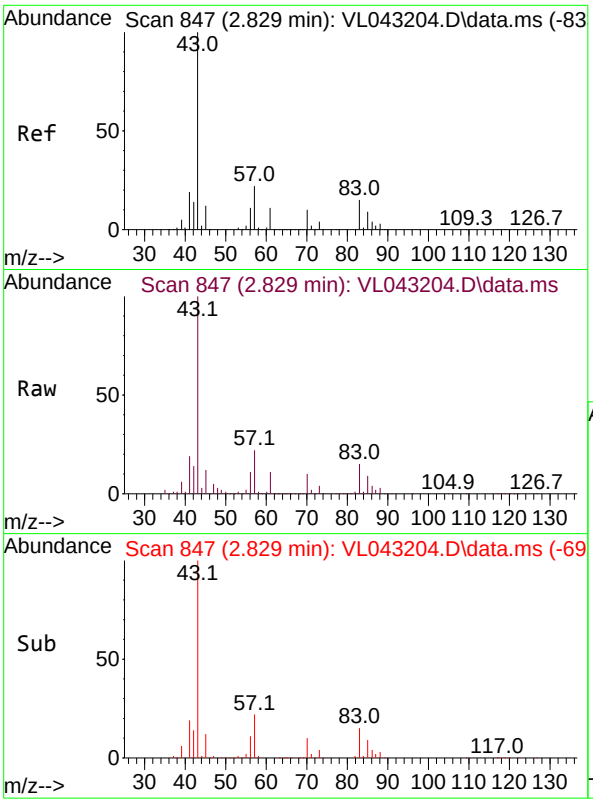


#24
1,1-Dichloroethane
Concen: 9.287 ppbv
RT: 2.405 min Scan# 716
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

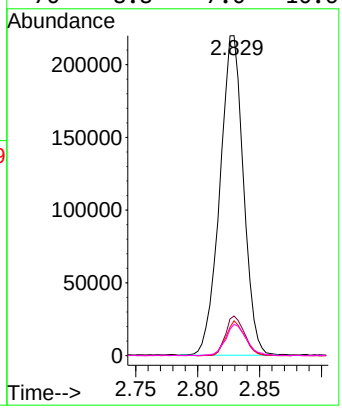




#25
Ethyl Acetate
Concen: 9.190 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
MSVOA_L
ClientSampleId :
VSTDICCC010

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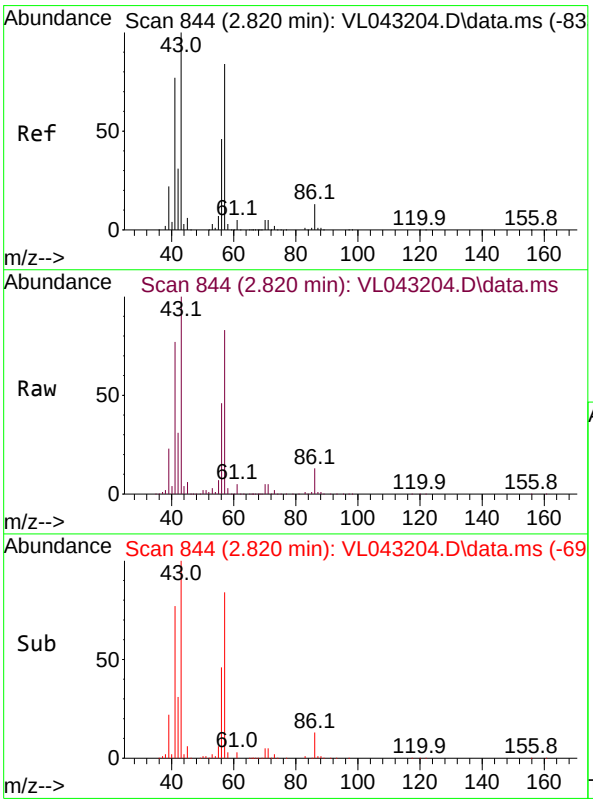
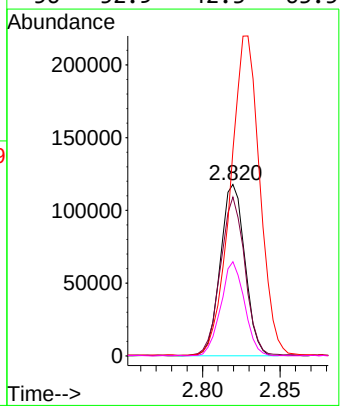
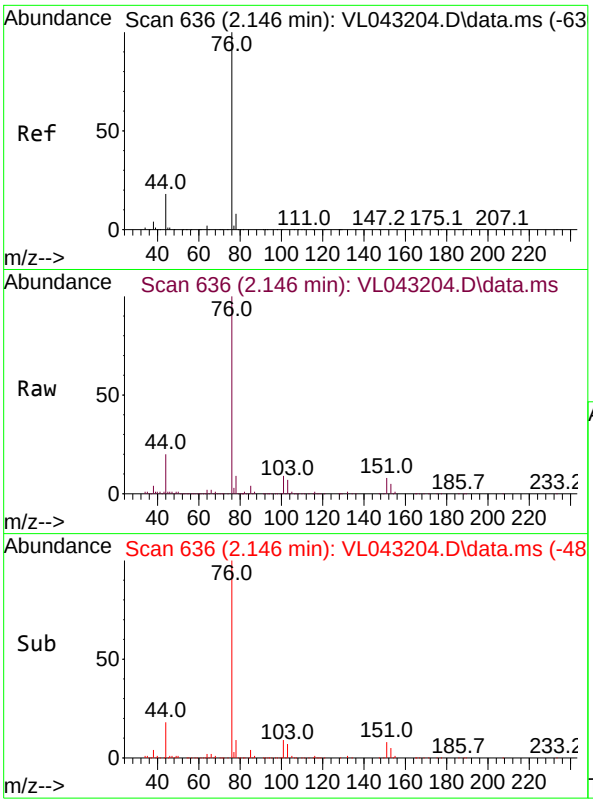


#26
Hexane
Concen: 9.402 ppbv
RT: 2.820 min Scan# 844
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

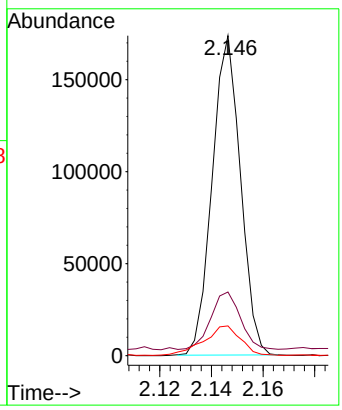




#27
Carbon Disulfide
Concen: 9.371 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
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ClientSampleId :
VSTDICCC010

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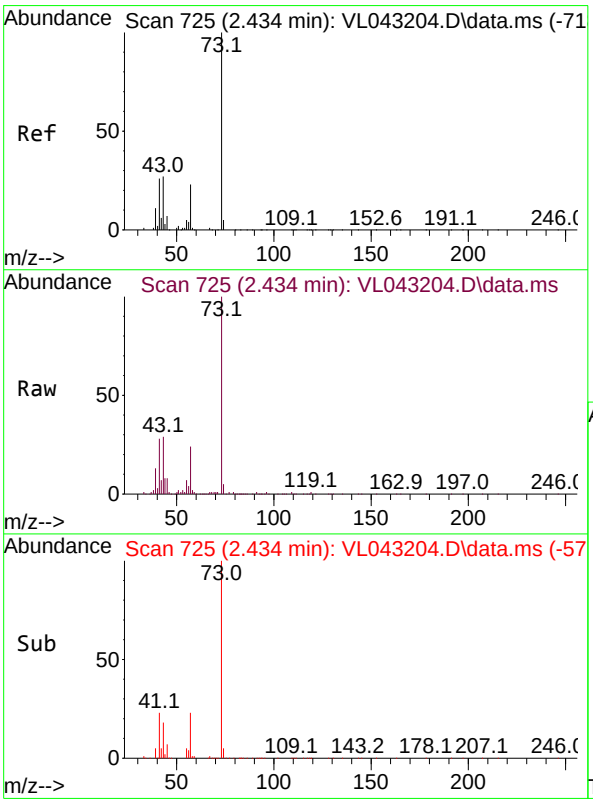
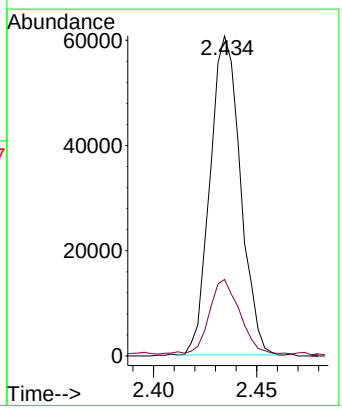
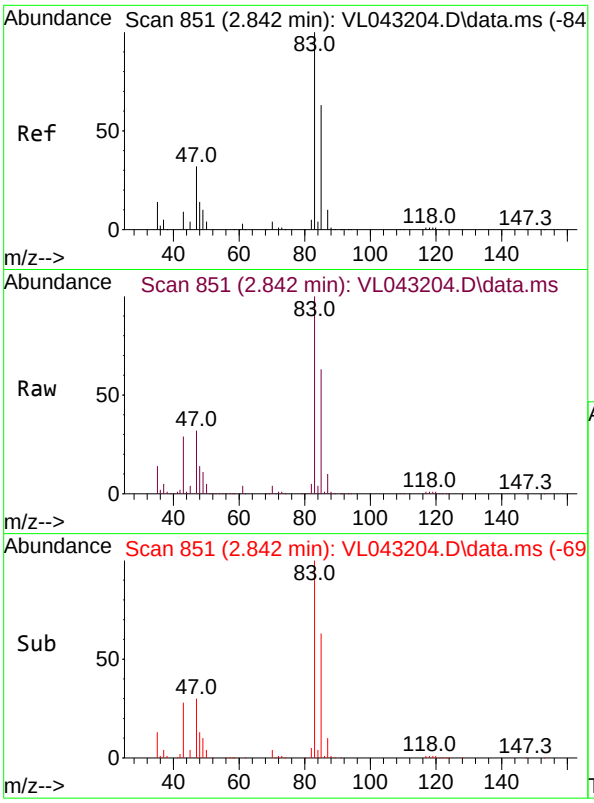


#28
Methyl tert-Butyl Ether
Concen: 9.165 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 73 Resp: 62115

Ion	Ratio	Lower	Upper
73	100		
57	24.8	19.8	29.8

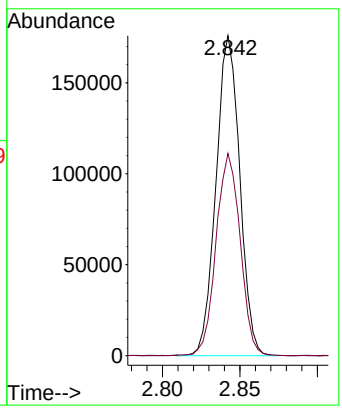




#29
Chloroform
Concen: 9.561 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 83 Resp: 18762

Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.5	75.7



Instrument :
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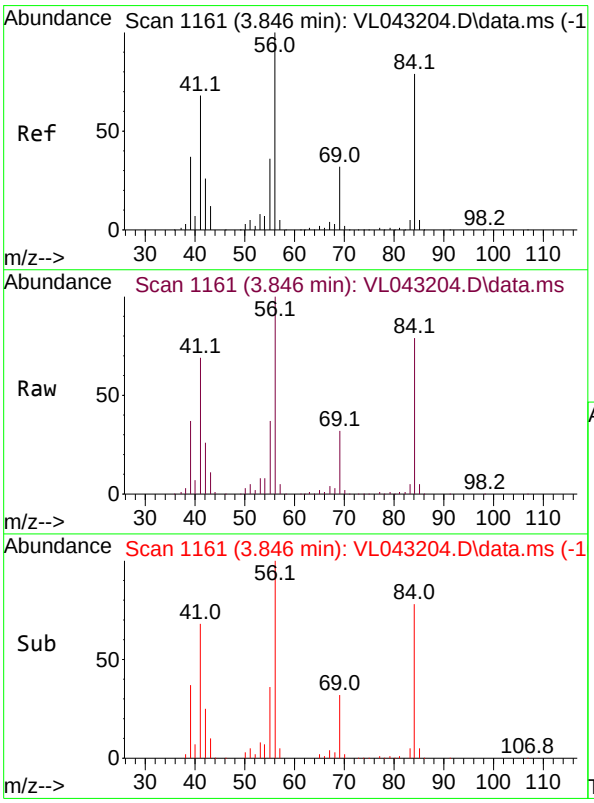
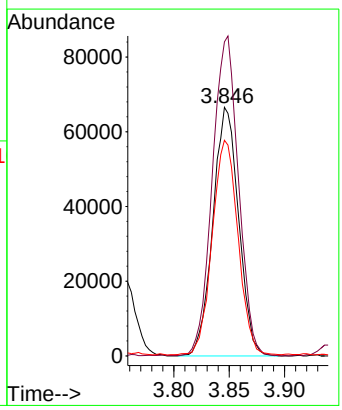
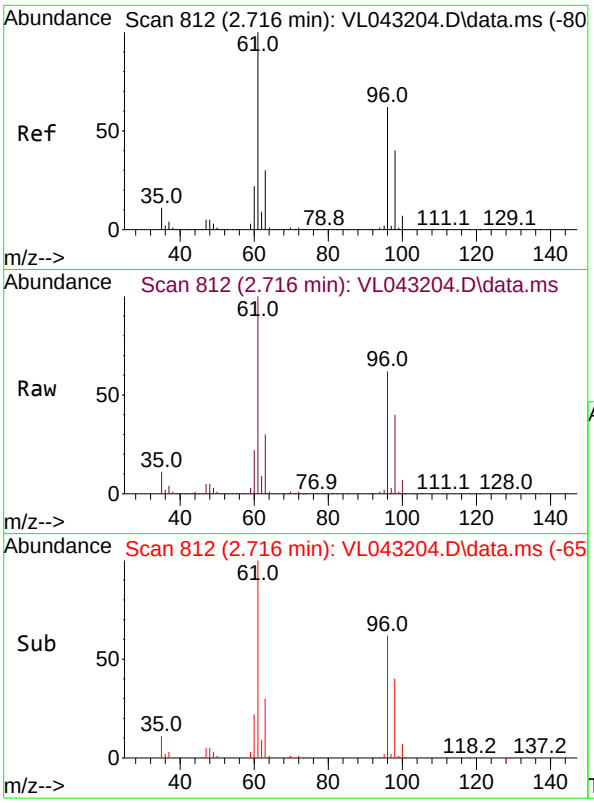


#30
Cyclohexane
Concen: 9.297 ppbv
RT: 3.846 min Scan# 1161
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

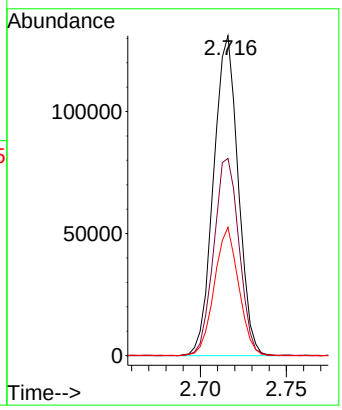




#31
cis-1,2-Dichloroethene
Concen: 9.499 ppbv
RT: 2.716 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
VSTDICCC010

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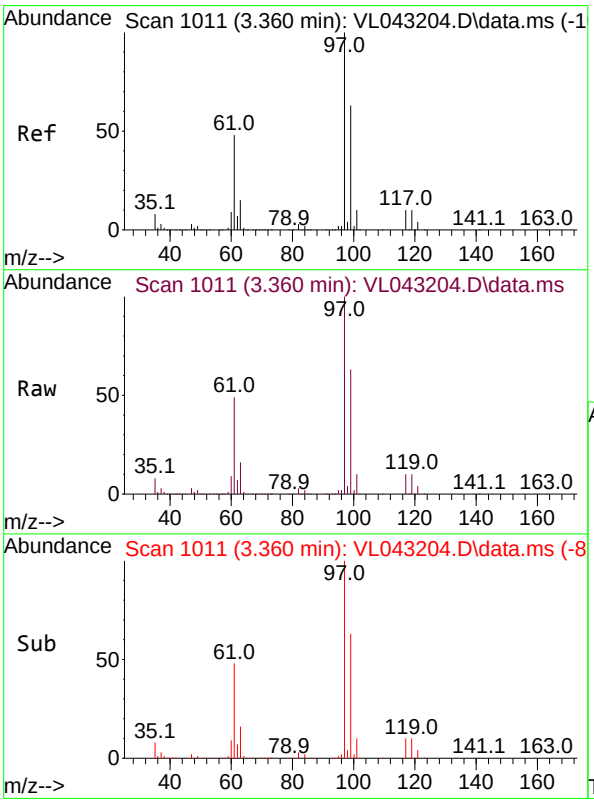
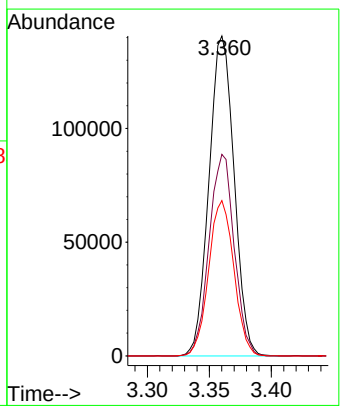
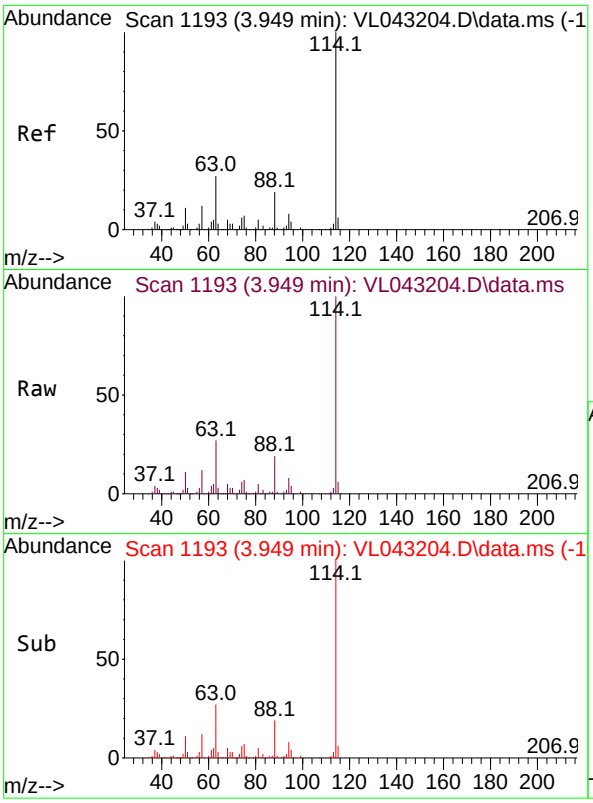


#32
1,1,1-Trichloroethane
Concen: 9.381 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

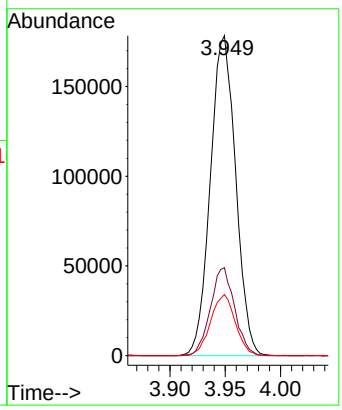




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
VSTDICCC010

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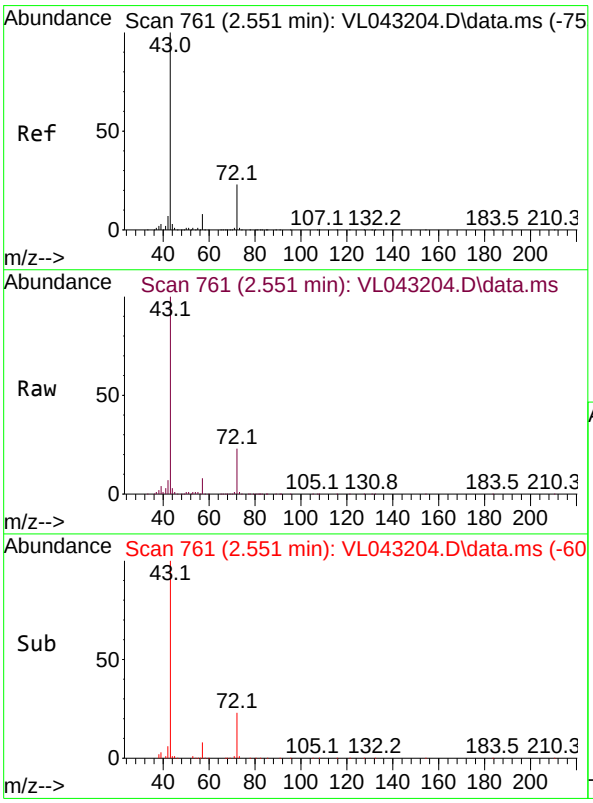
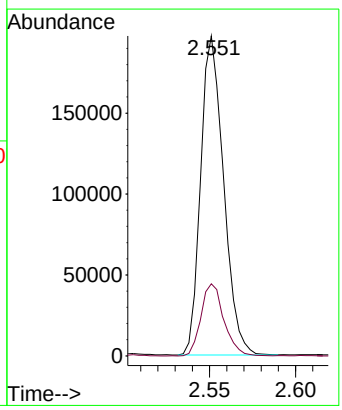
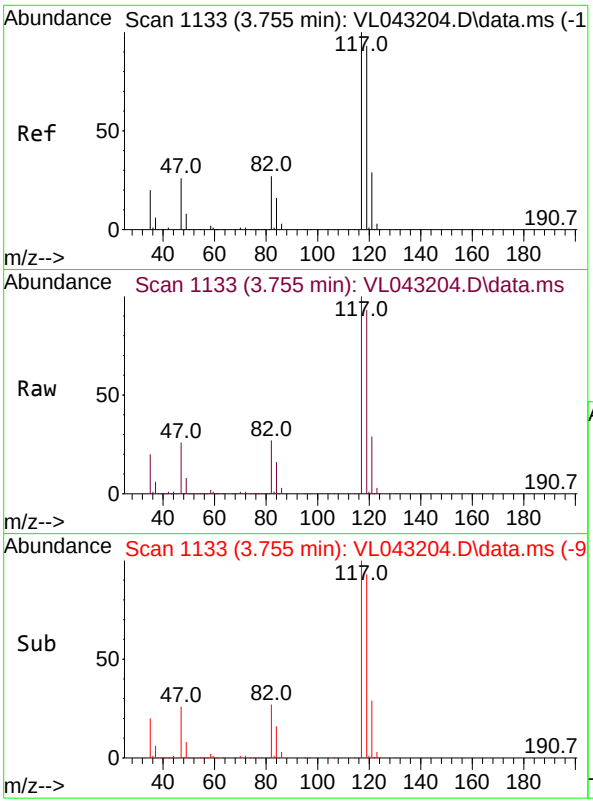


#34
2-Butanone
Concen: 9.121 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 182749

Ion	Ratio	Lower	Upper
43	100		
72	22.6	18.1	27.1

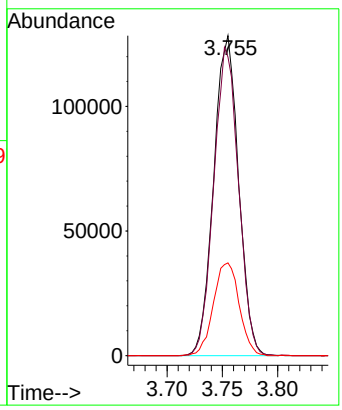




#35
Carbon Tetrachloride
Concen: 9.322 ppbv
RT: 3.755 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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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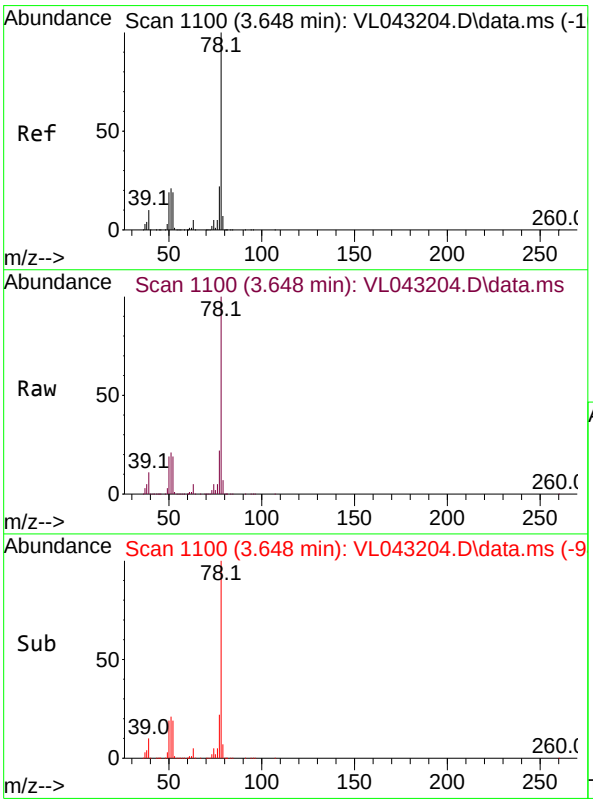
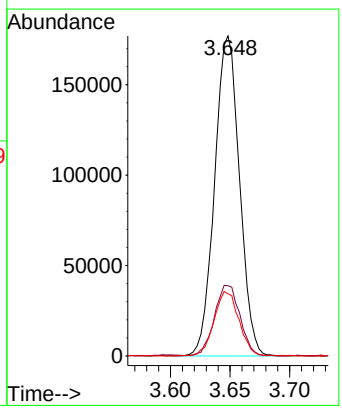
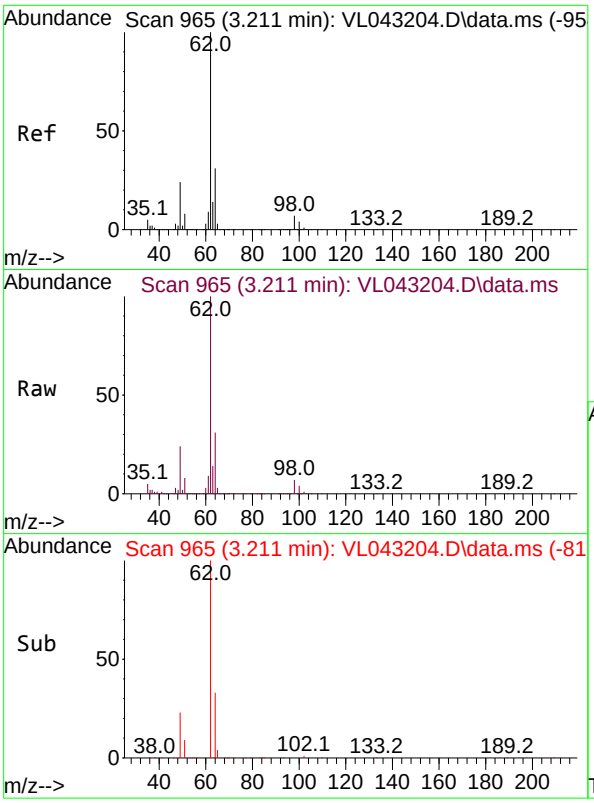


#36
Benzene
Concen: 9.453 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

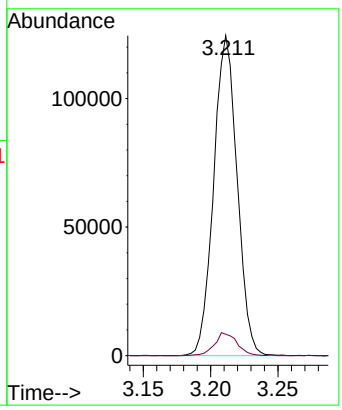




#37
1,2-Dichloroethane
Concen: 9.483 ppbv
RT: 3.211 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 62 Resp: 15076

Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.5	8.3



Instrument :
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ClientSampleId :
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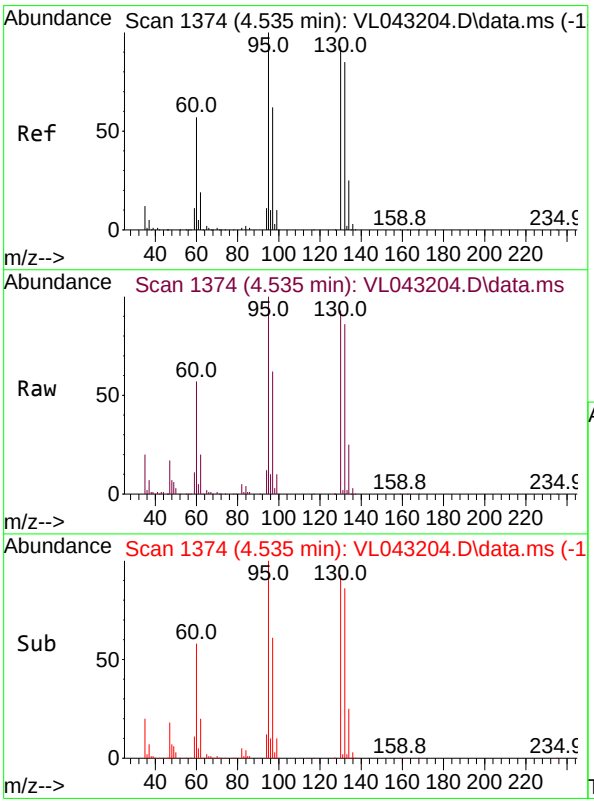
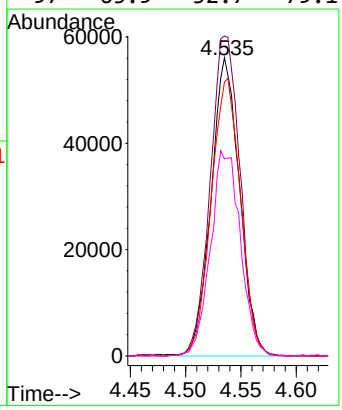
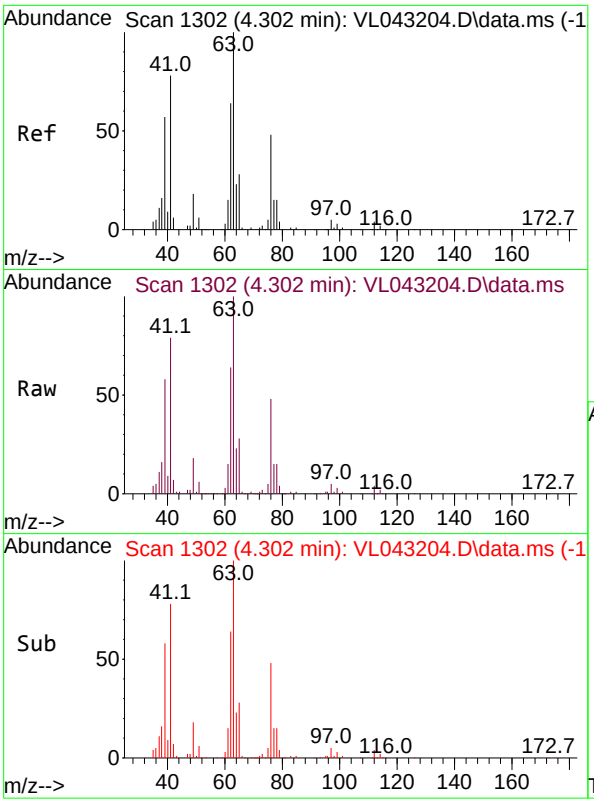


#38
Trichloroethene
Concen: 9.398 ppbv
RT: 4.535 min Scan# 1374
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

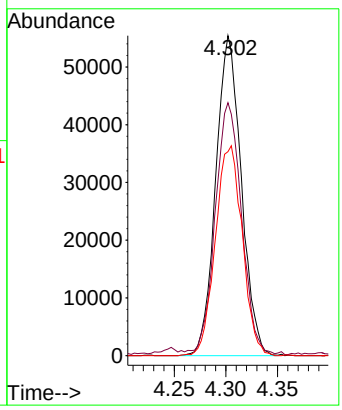




#39
1,2-Dichloropropane
Concen: 9.559 ppbv
RT: 4.302 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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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ClientSampleId :
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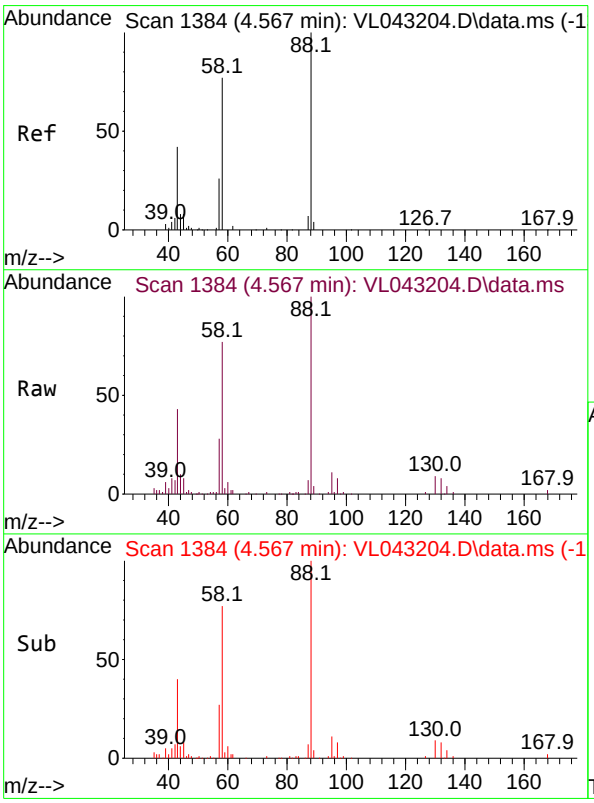
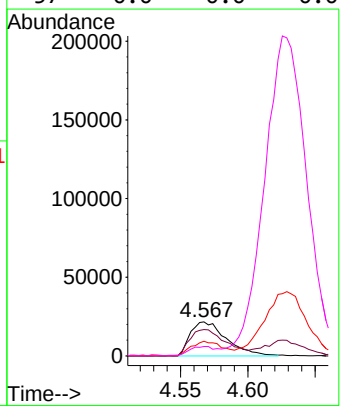
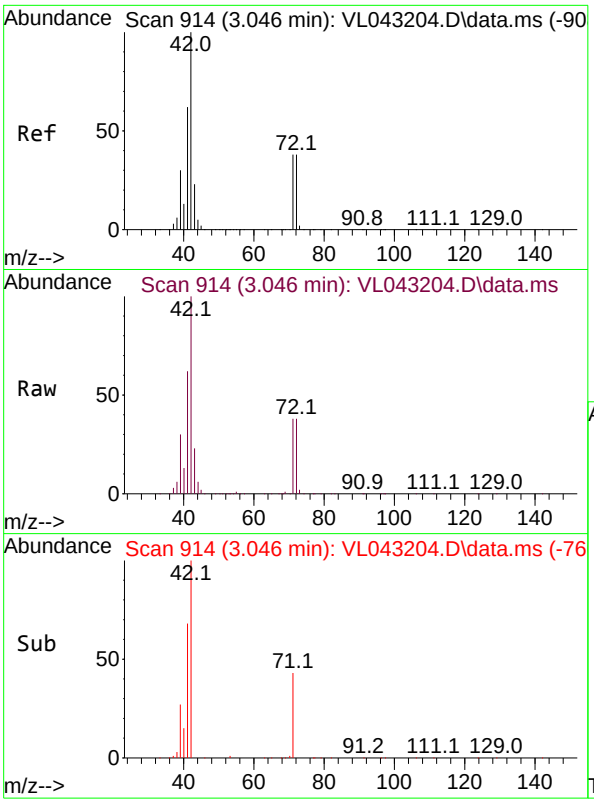


#40
1,4-Dioxane
Concen: 9.043 ppbv
RT: 4.567 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
MSVOA_L
ClientSampleId :
VSTDICCC010

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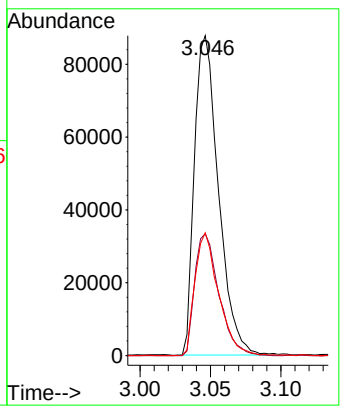
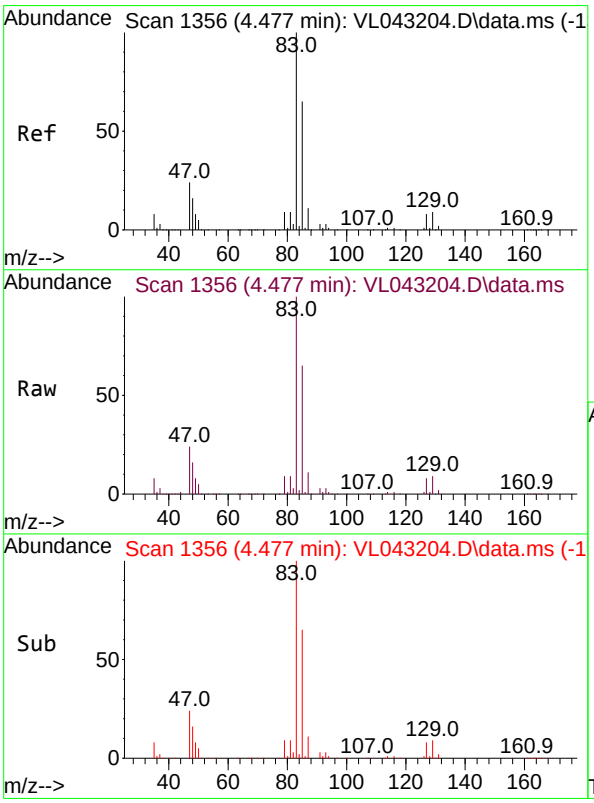
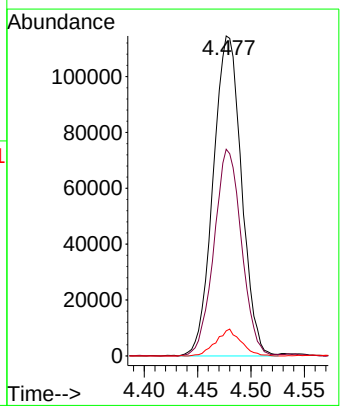


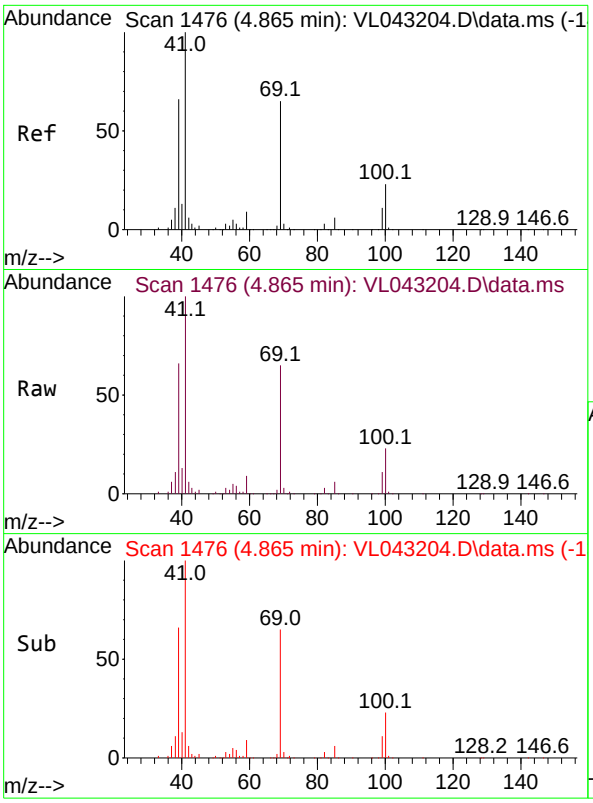


#42
Bromodichloromethane
Concen: 9.643 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

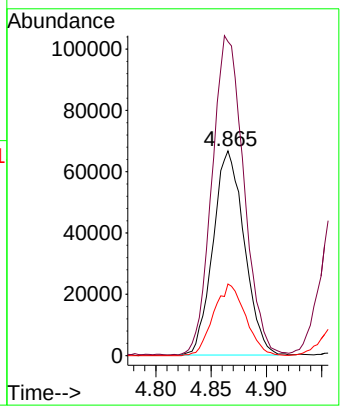




#43
Methyl Methacrylate
Concen: 9.080 ppbv
RT: 4.865 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
MSVOA_L
ClientSampleId :
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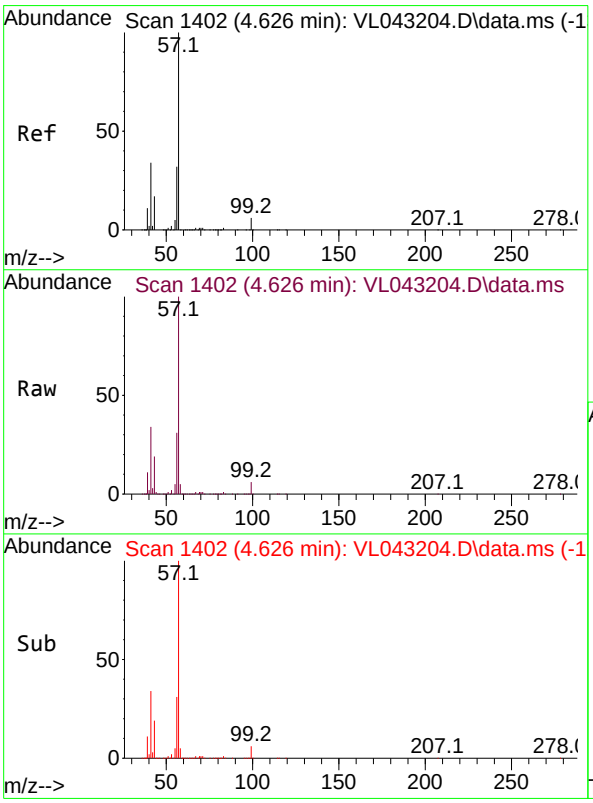
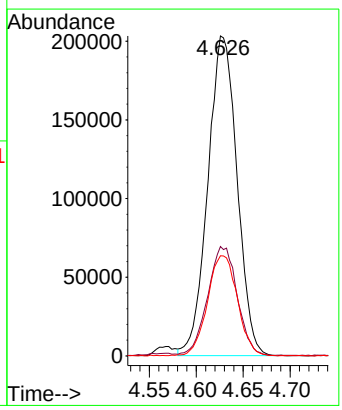
Supervised By :Mahesh Dadoda 11/19/2025

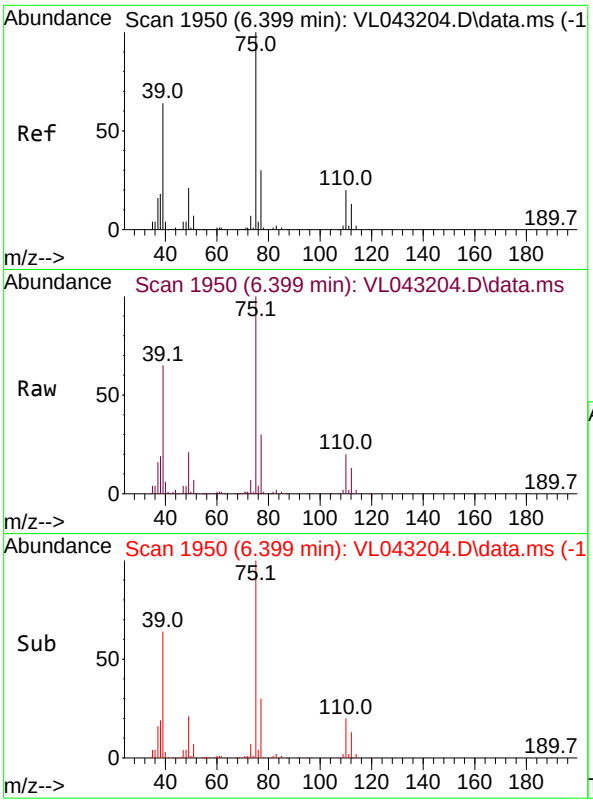


#44
2,2,4-Trimethylpentane
Concen: 9.451 ppbv
RT: 4.626 min Scan# 1402
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

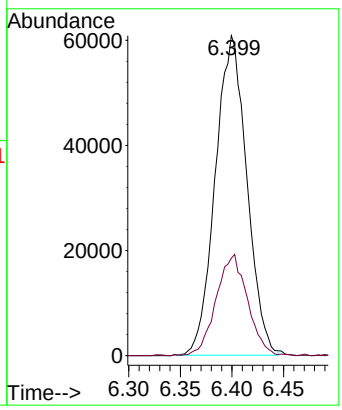




#45
t-1,3-Dichloropropene
Concen: 9.601 ppbv
RT: 6.399 min Scan# 19
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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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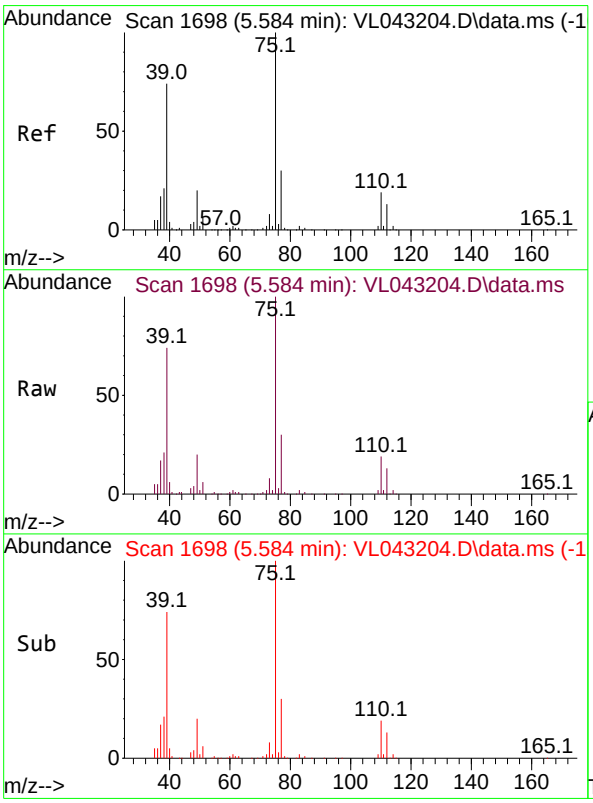
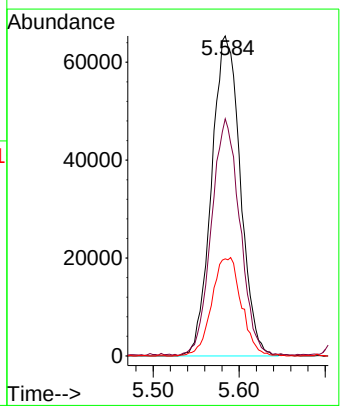
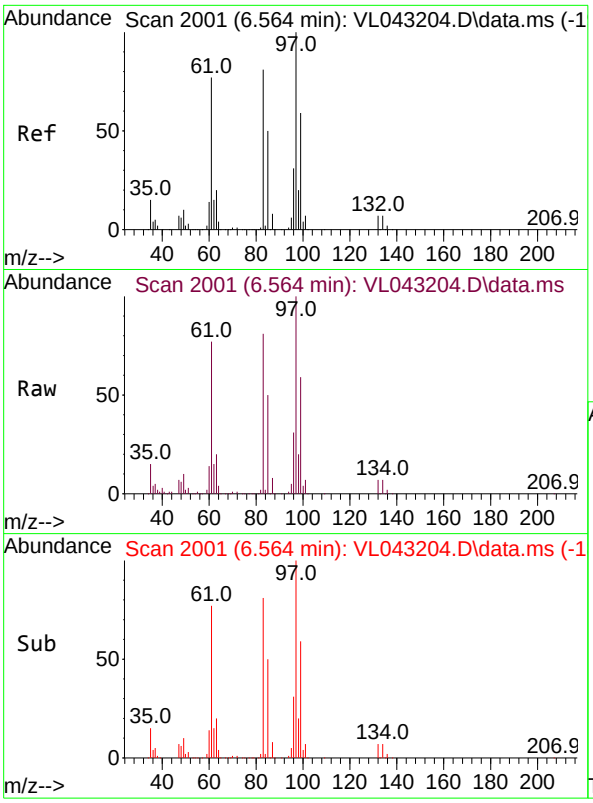


#46
cis-1,3-Dichloropropene
Concen: 9.603 ppbv
RT: 5.584 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

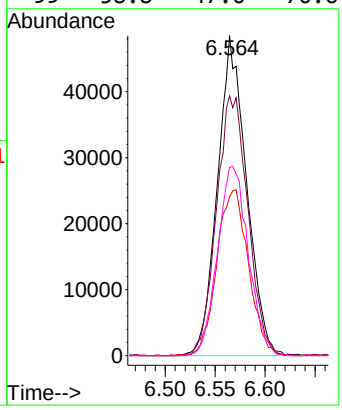




#47
1,1,2-Trichloroethane
Concen: 9.193 ppbv
RT: 6.564 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
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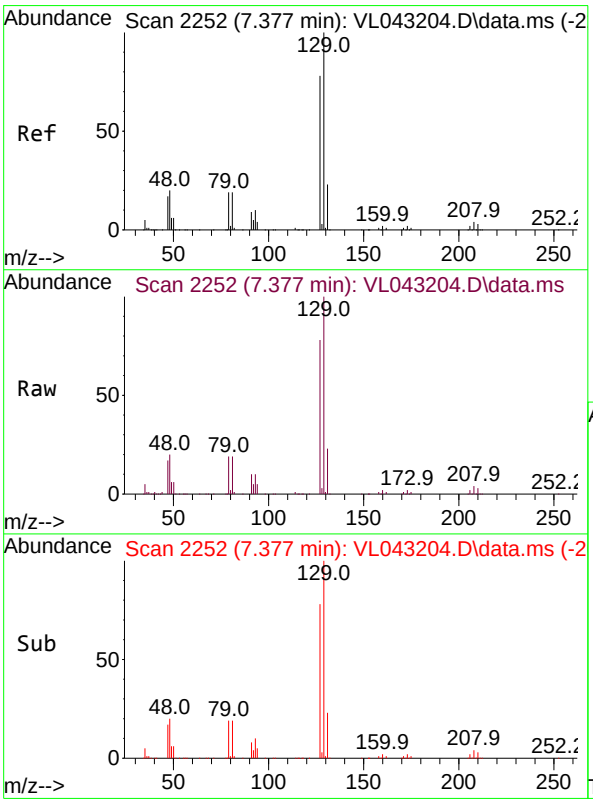
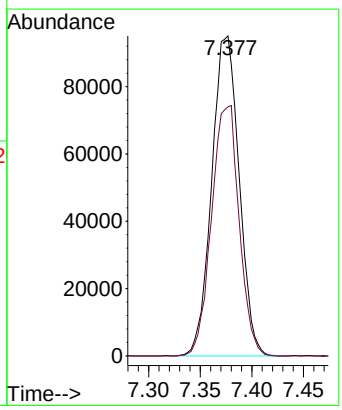
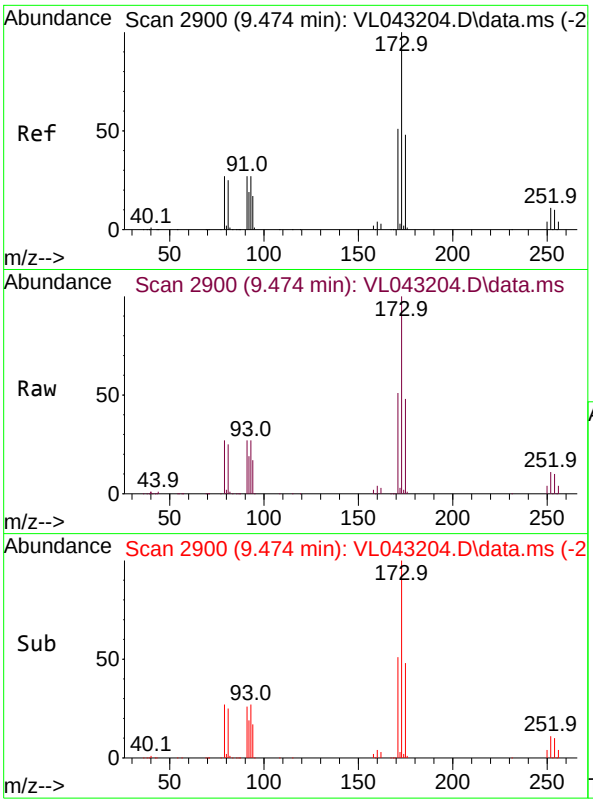


#48
Dibromochloromethane
Concen: 9.670 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:129 Resp: 175529

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.9

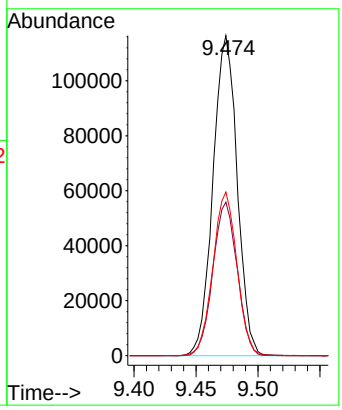




#49
Bromoform
Concen: 9.800 ppbv
RT: 9.474 min Scan# 29
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
MSVOA_L
ClientSampleId :
VSTDICCC010

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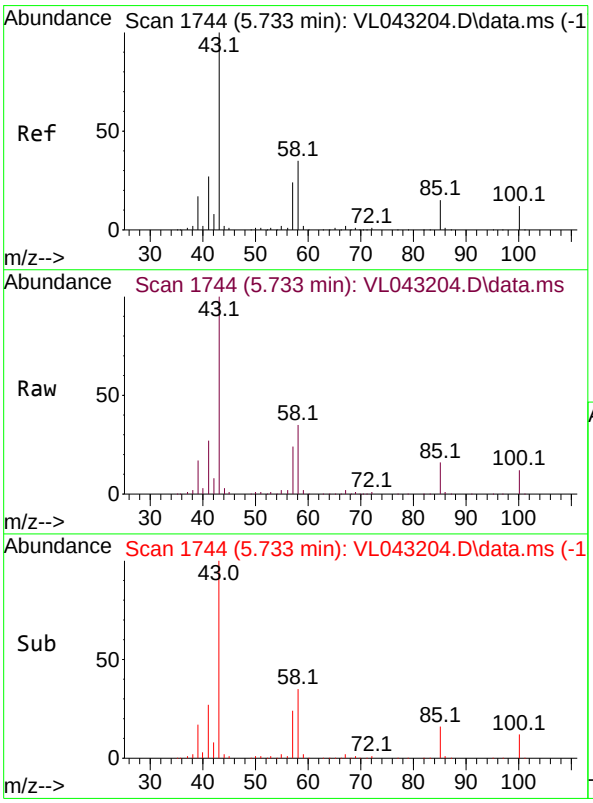
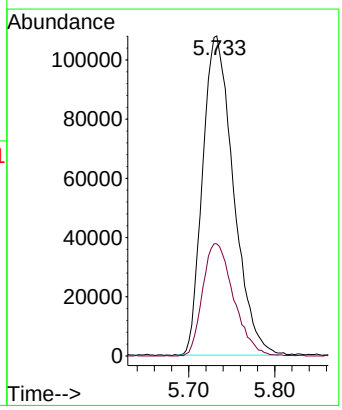
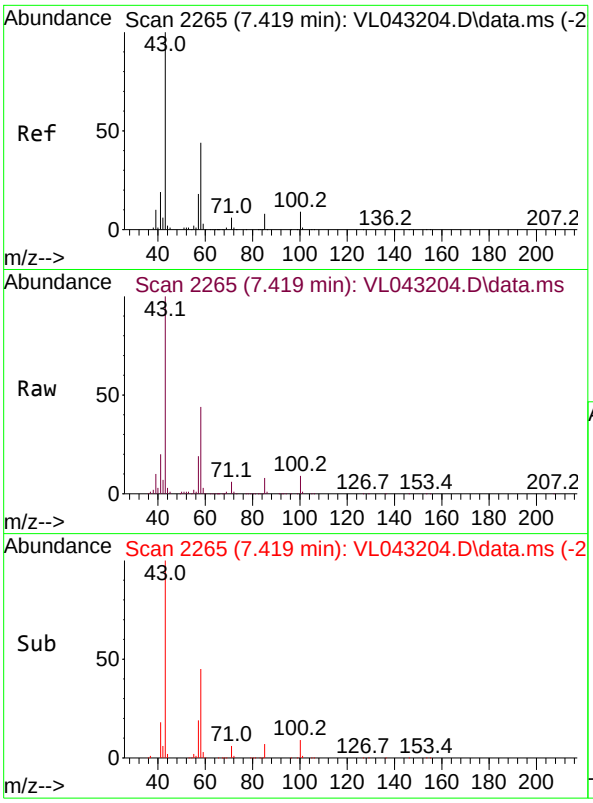


#50
4-Methyl-2-Pentanone
Concen: 9.509 ppbv
RT: 5.733 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 268369

Ion	Ratio	Lower	Upper
43	100		
58	35.5	28.4	42.6

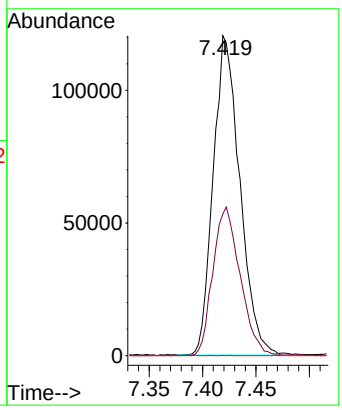




#51
2-Hexanone
Concen: 9.503 ppbv
RT: 7.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
MSVOA_L
ClientSampleId :
VSTDICCC010

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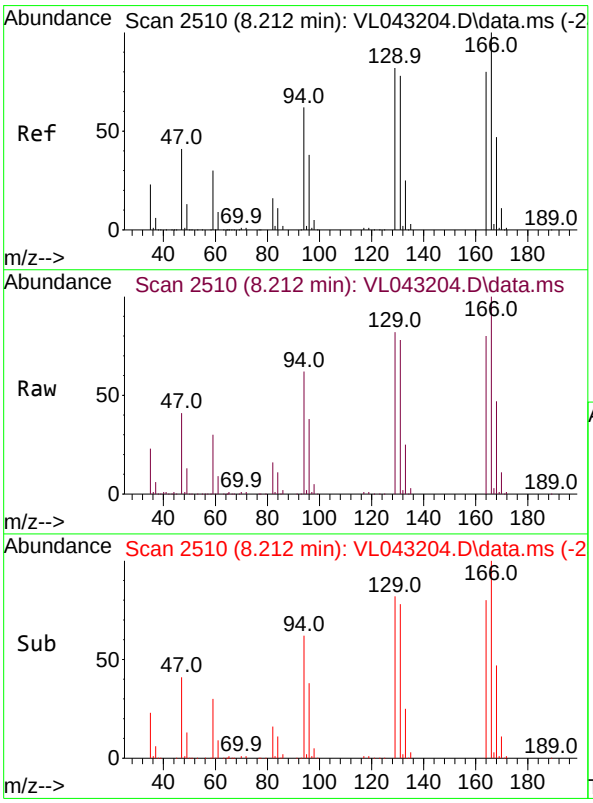
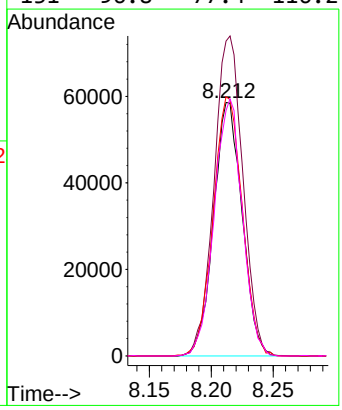
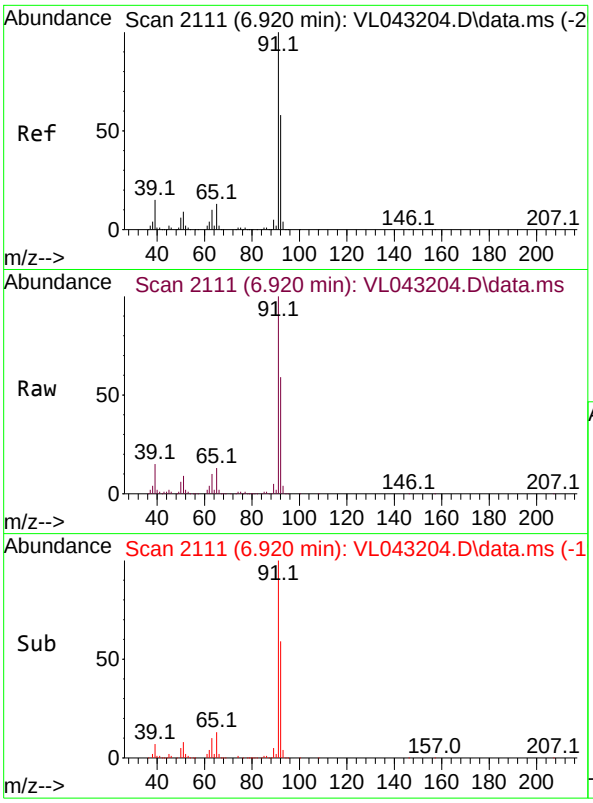


#52
Tetrachloroethene
Concen: 9.249 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

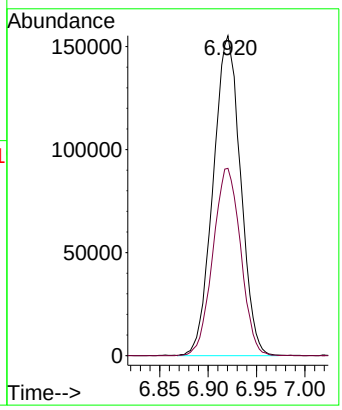




#53
Toluene
Concen: 9.422 ppbv
RT: 6.920 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 30516

Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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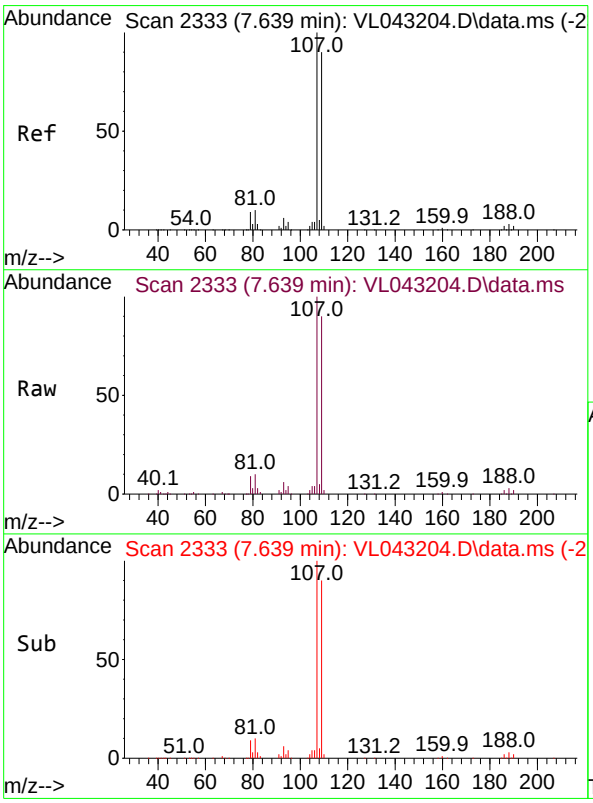
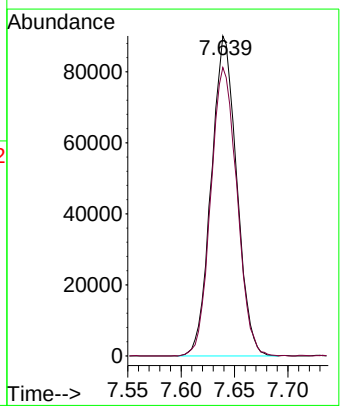
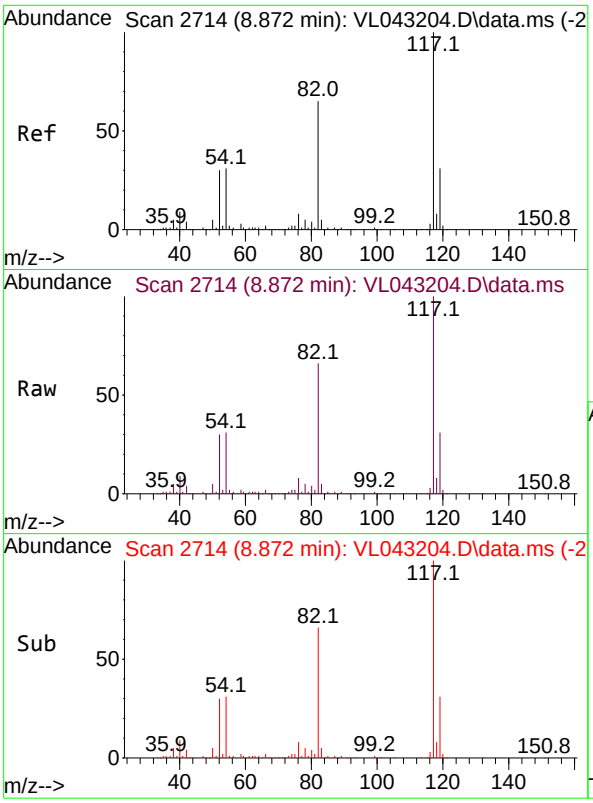


#54
1,2-Dibromoethane
Concen: 9.588 ppbv
RT: 7.639 min Scan# 2333
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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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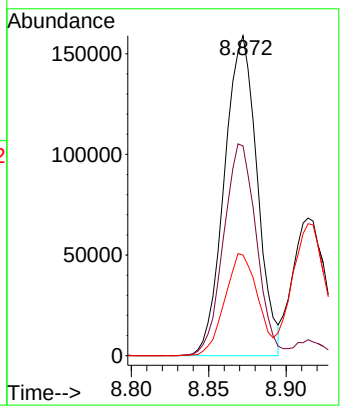
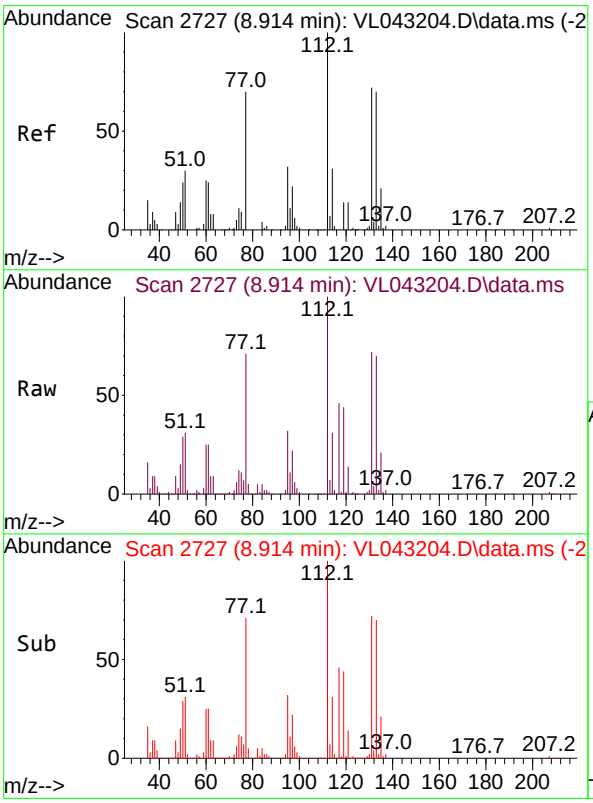
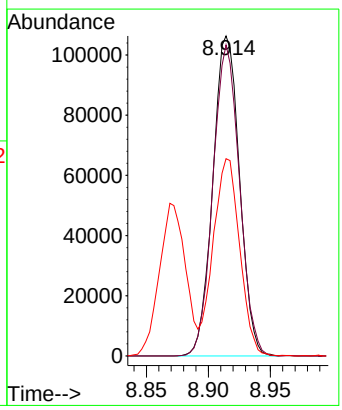


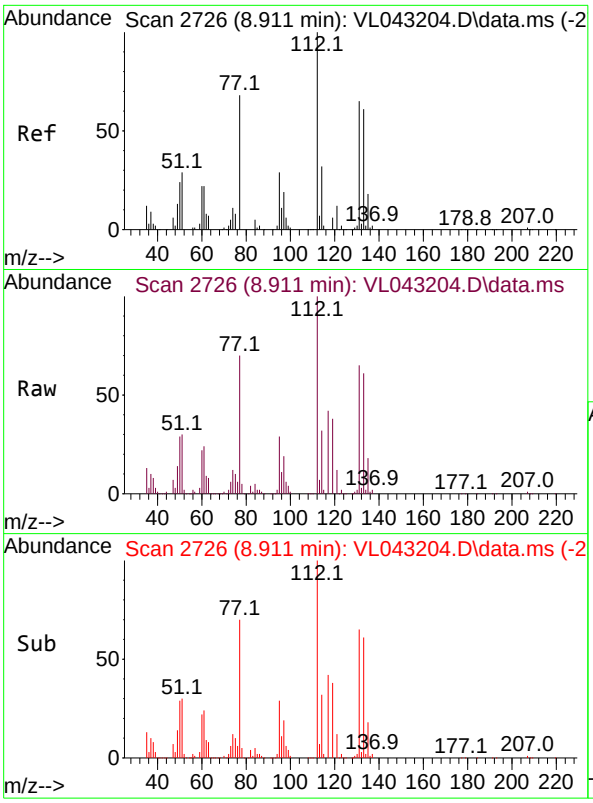


#56
1,1,1,2-Tetrachloroethane
Concen: 9.207 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

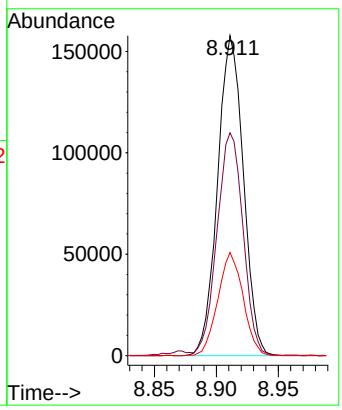




#57
Chlorobenzene
Concen: 9.438 ppbv
RT: 8.911 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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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ClientSampleId :
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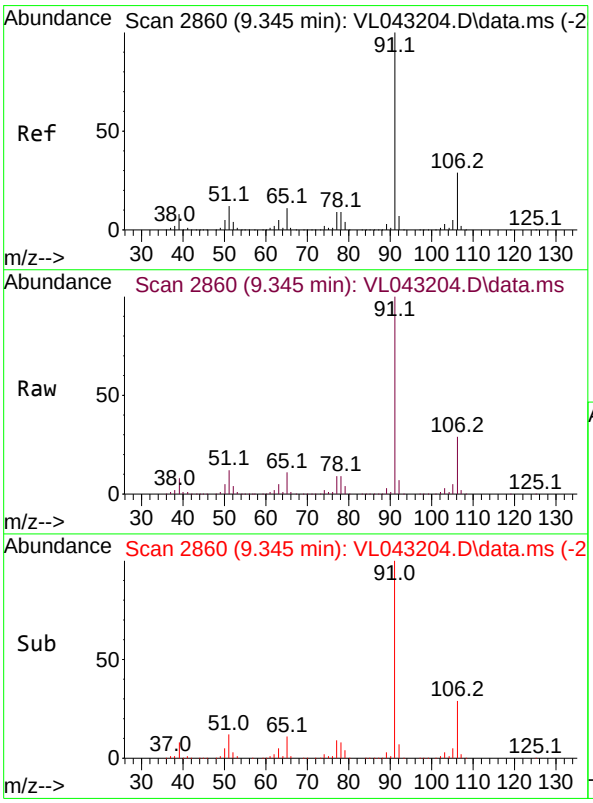
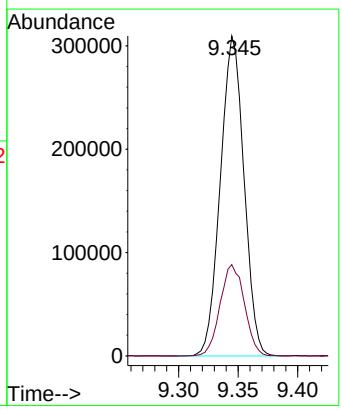
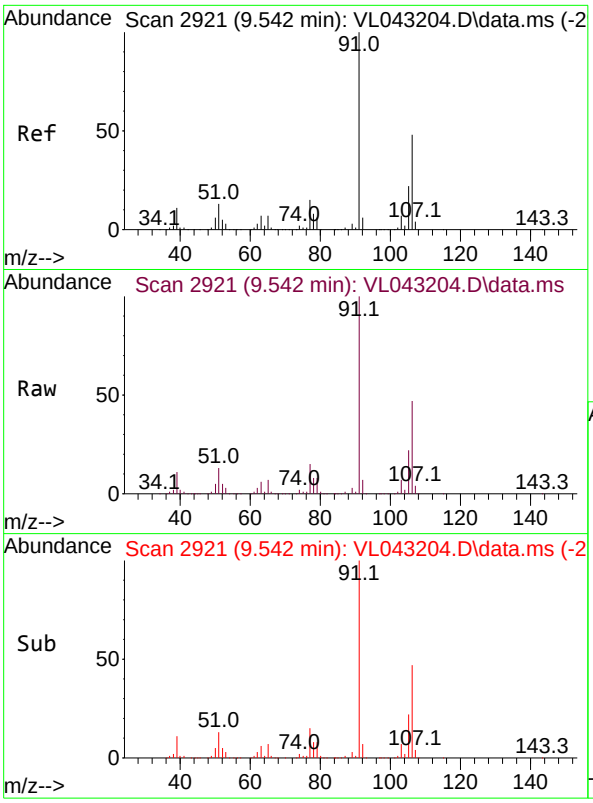


#58
Ethyl Benzene
Concen: 9.461 ppbv
RT: 9.345 min Scan# 2860
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 427530

Ion	Ratio	Lower	Upper
91	100		
106	28.5	22.8	34.2

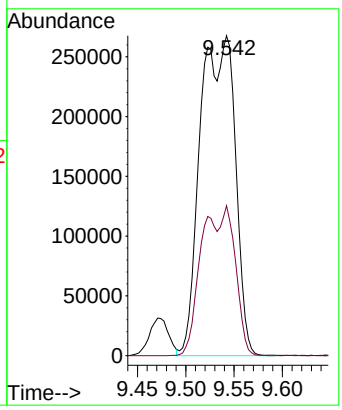




#59
m/p-Xylene
Concen: 18.519 ppbv m
RT: 9.542 min Scan# 29
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 673371

Ion	Ratio	Lower	Upper
91	100		
106	45.1	36.1	54.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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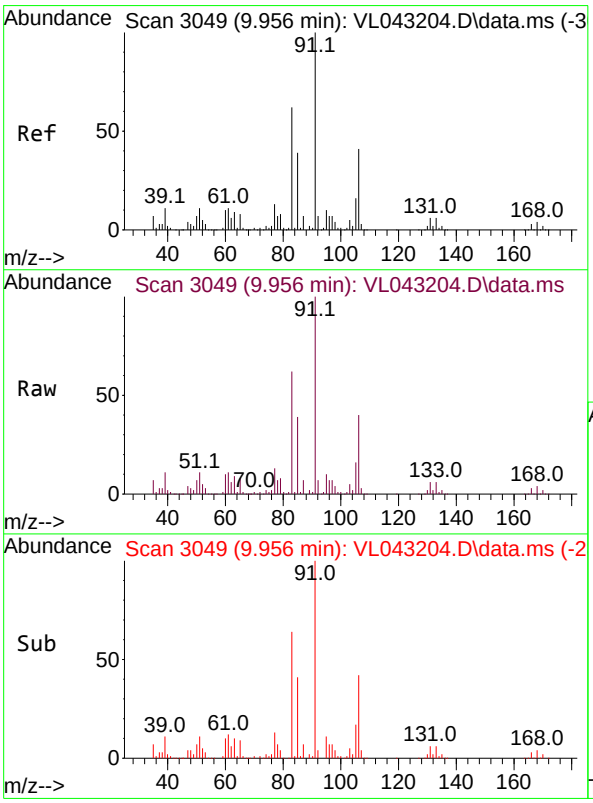
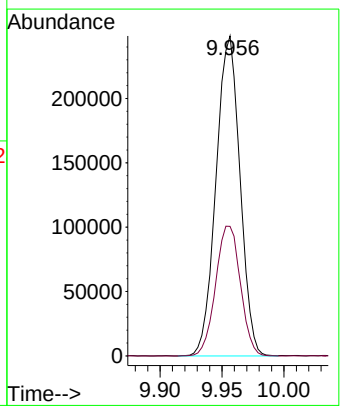
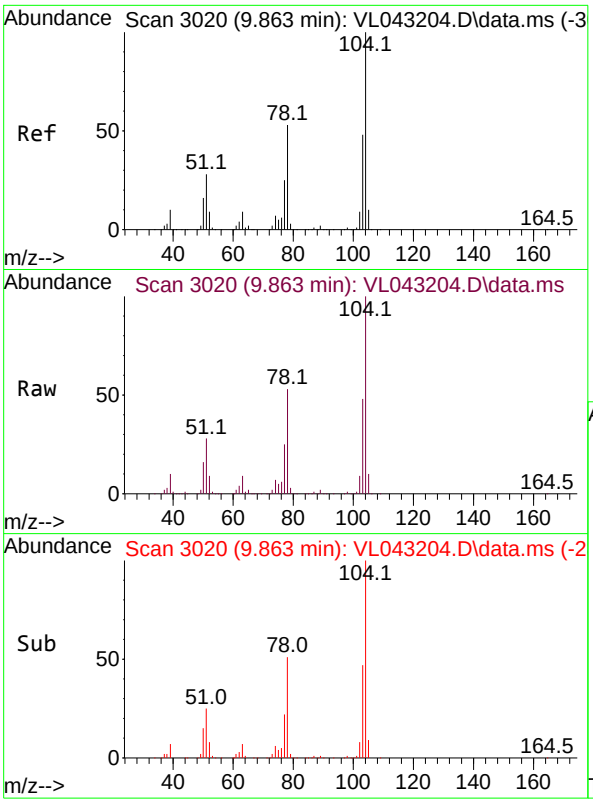


#60
o-Xylene
Concen: 9.202 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 333044

Ion	Ratio	Lower	Upper
91	100		
106	41.9	20.9	62.8

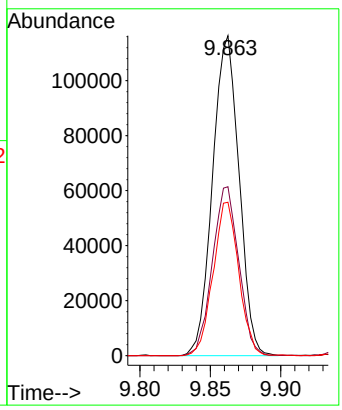




#61
Styrene
Concen: 9.607 ppbv
RT: 9.863 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
MSVOA_L
ClientSampleId :
VSTDICCC010

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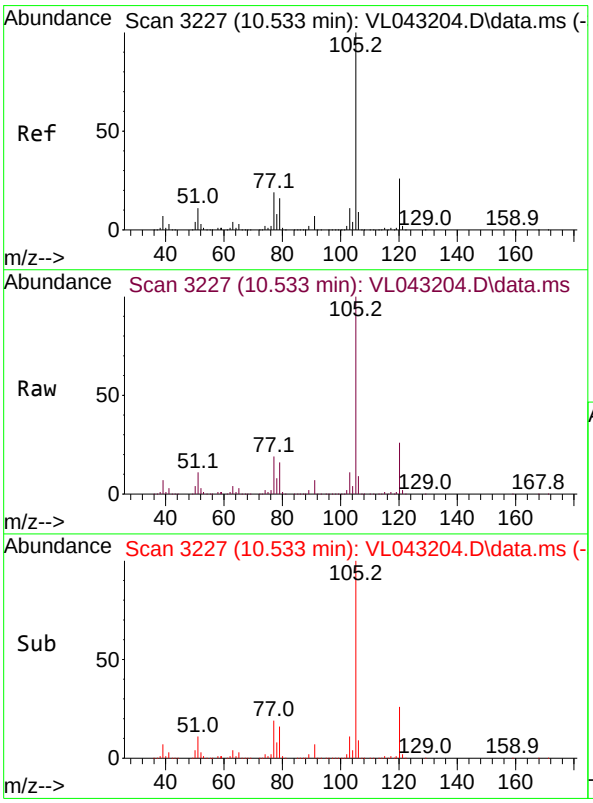
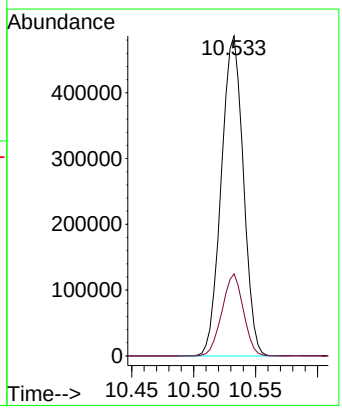
Supervised By :Mahesh Dadoda 11/19/2025

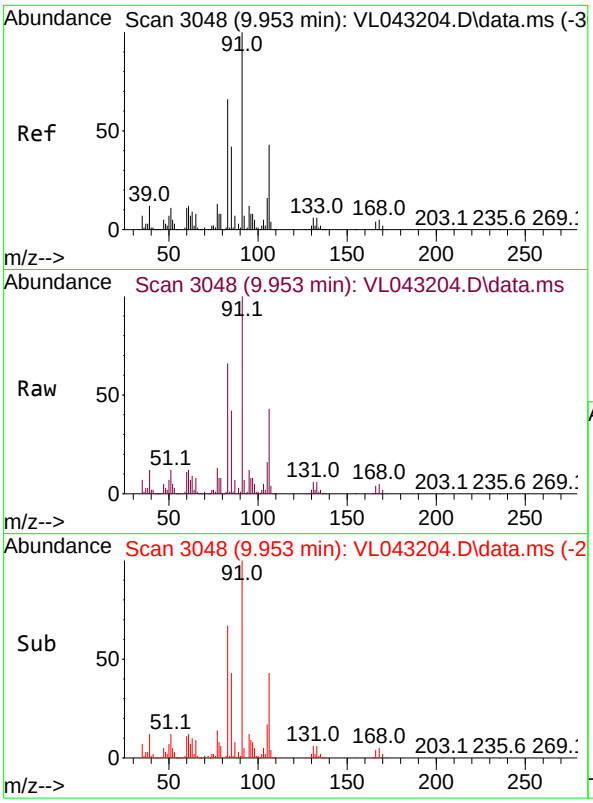


#62
Isopropylbenzene
Concen: 9.269 ppbv
RT: 10.533 min Scan# 3227
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:105 Resp: 600155

Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.8	29.8

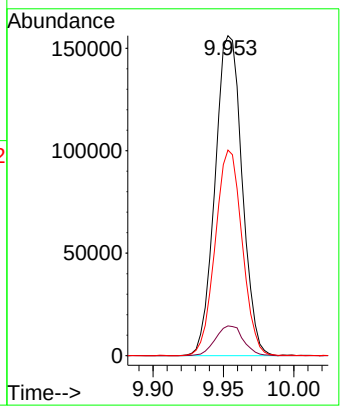




#63
1,1,2,2-Tetrachloroethane
Concen: 9.109 ppbv
RT: 9.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
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ClientSampleId :
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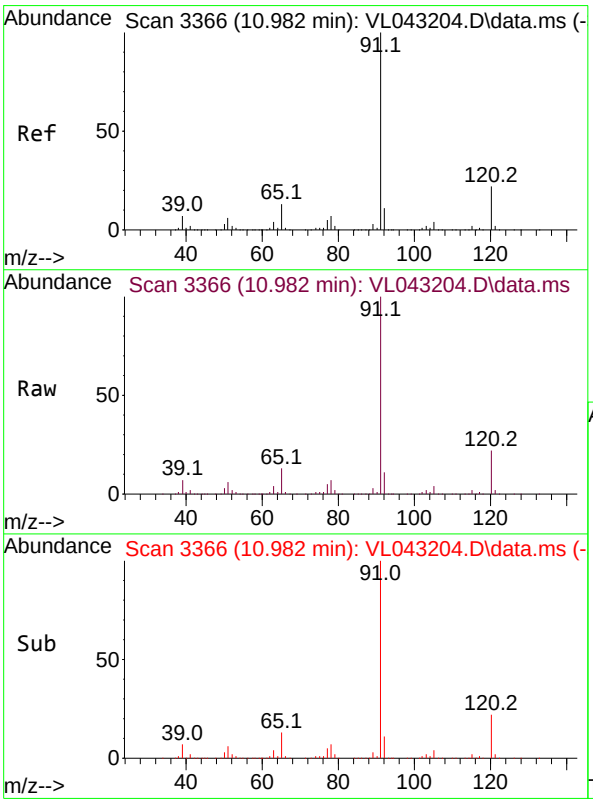
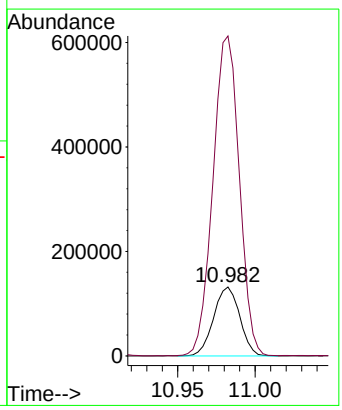
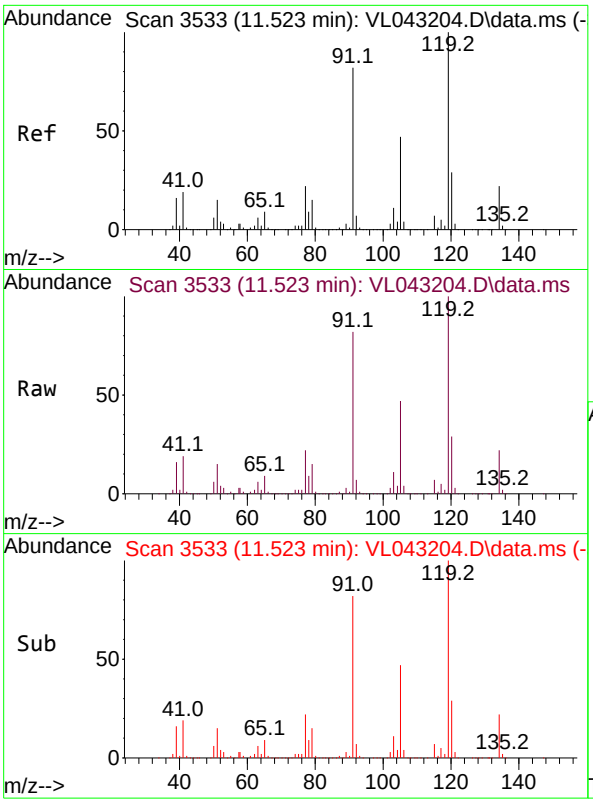


#64
n-propylbenzene
Concen: 9.271 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:120 Resp: 154239

Ion	Ratio	Lower	Upper
120	100		
91	471.4	377.1	565.7

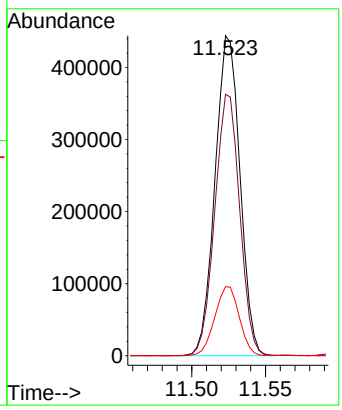




#65
tert-Butylbenzene
Concen: 9.029 ppbv
RT: 11.523 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
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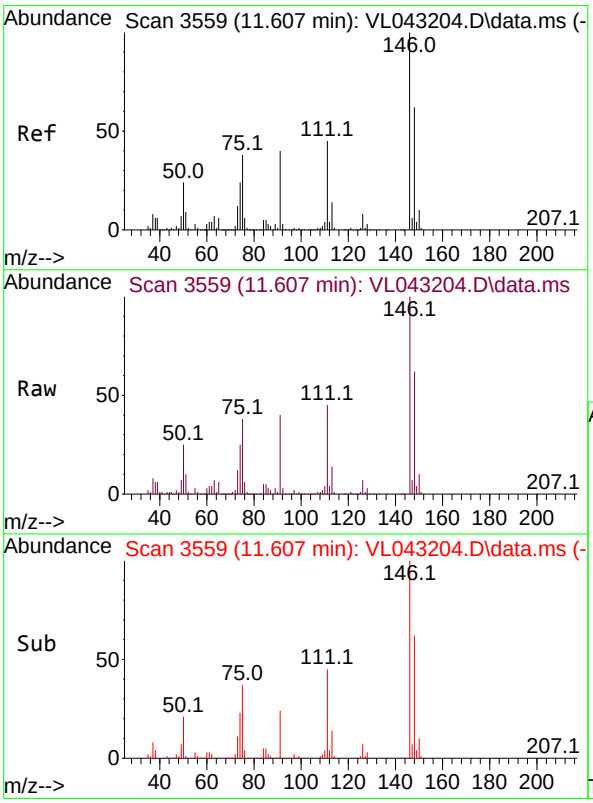
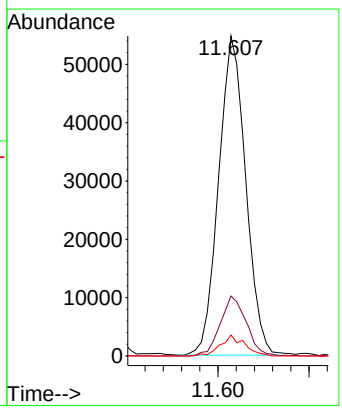
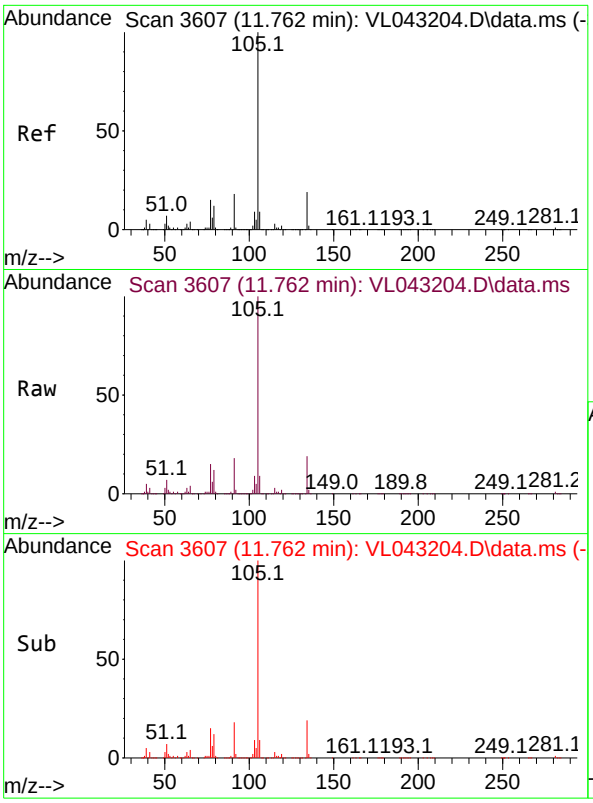


#66
Benzyl Chloride
Concen: 9.649 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

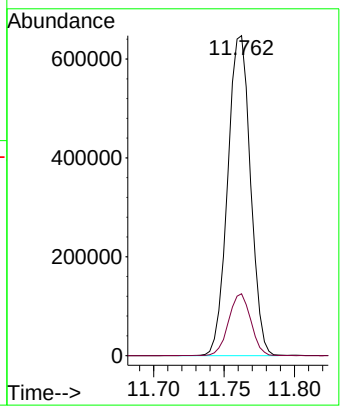




#67
sec-Butylbenzene
Concen: 9.039 ppbv
RT: 11.762 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:105 Resp: 72957

Ion	Ratio	Lower	Upper
105	100		
134	18.8	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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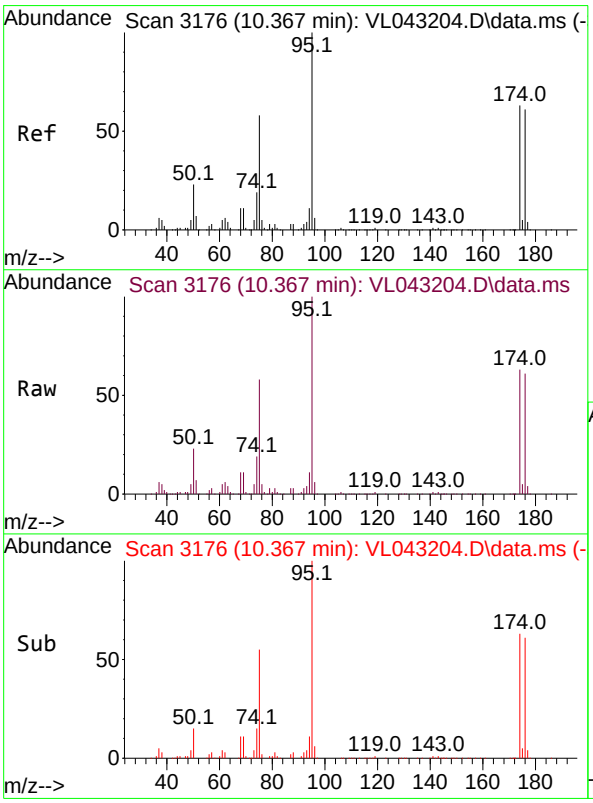
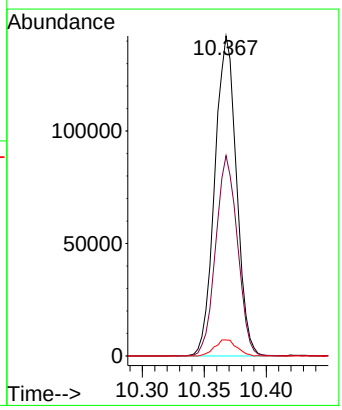
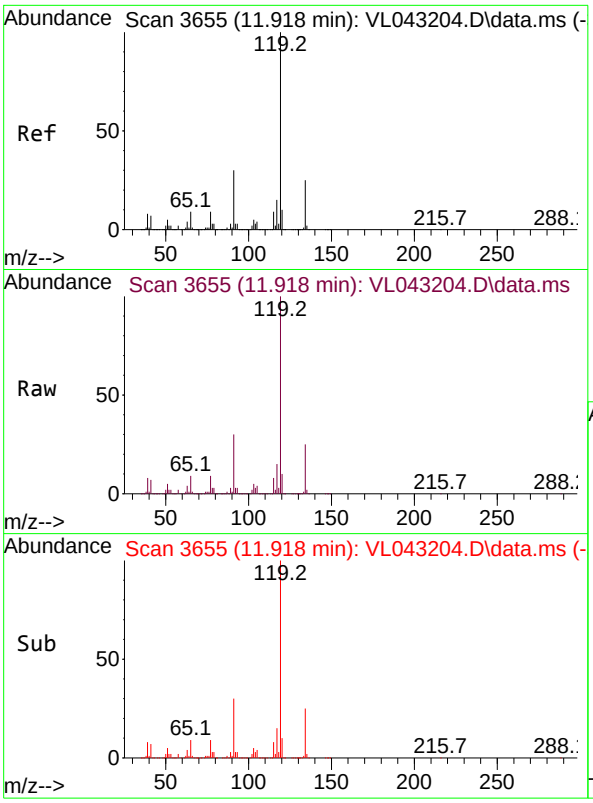


#68
1-Bromo-4-Fluorobenzene
Concen: 10.025 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

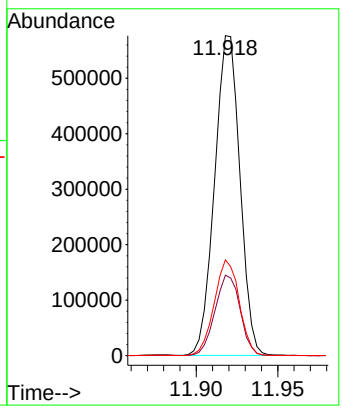




#69
p-Isopropyltoluene
Concen: 9.135 ppbv
RT: 11.918 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
VSTDICCC010

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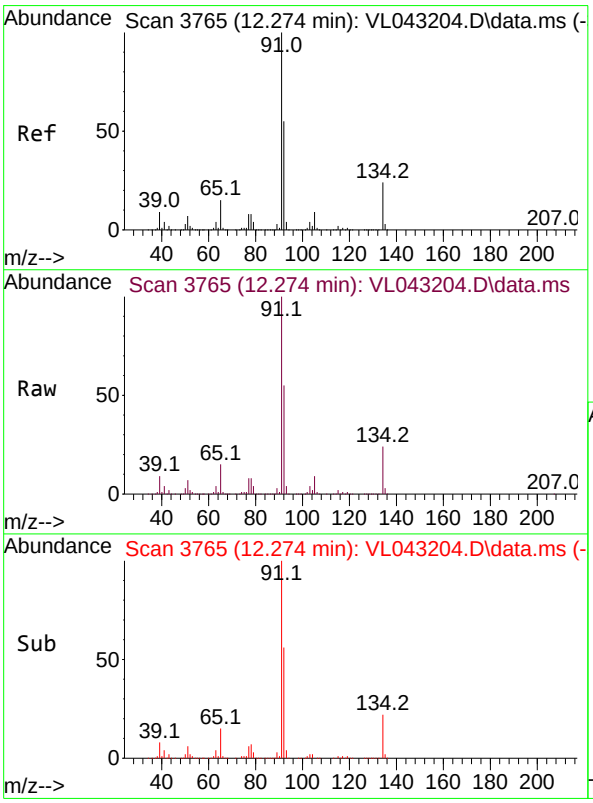
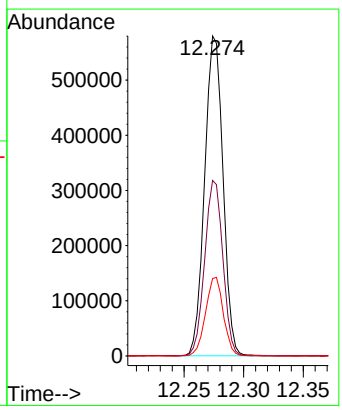
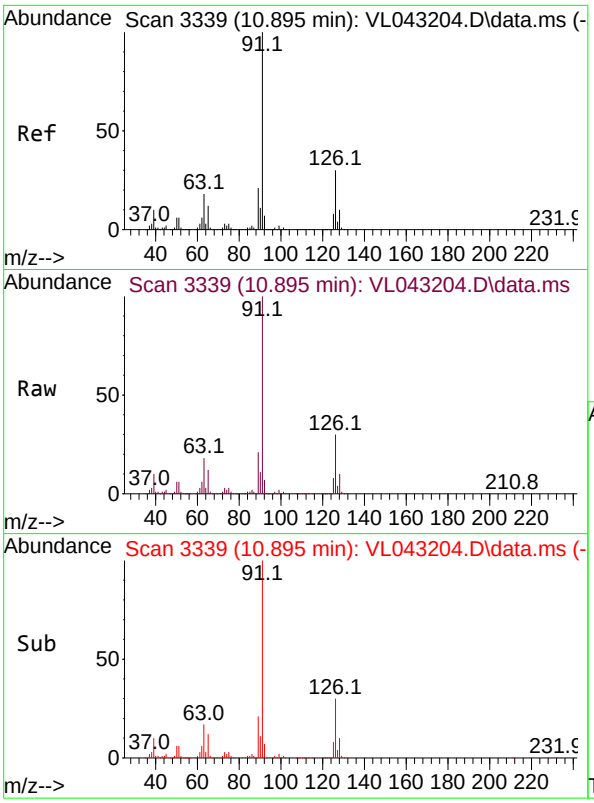


#70
n-Butylbenzene
Concen: 9.341 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

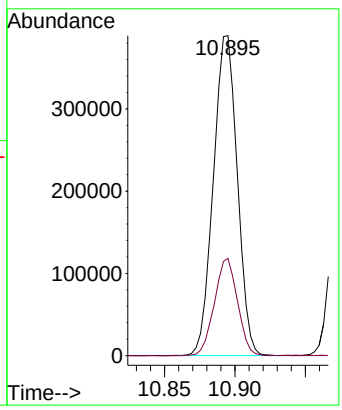




#71
2-Chlorotoluene
Concen: 9.245 ppbv
RT: 10.895 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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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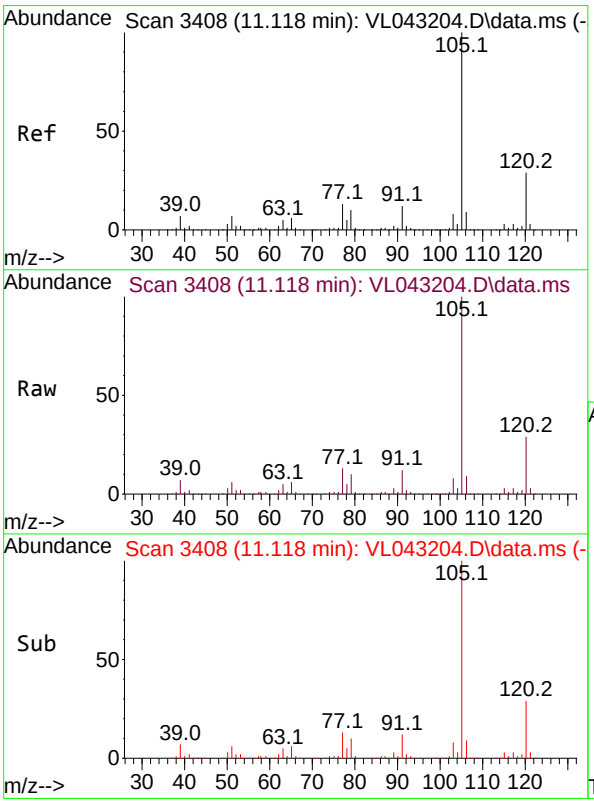
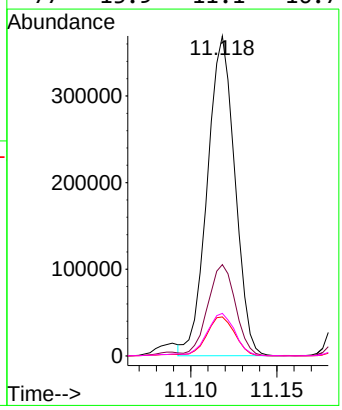
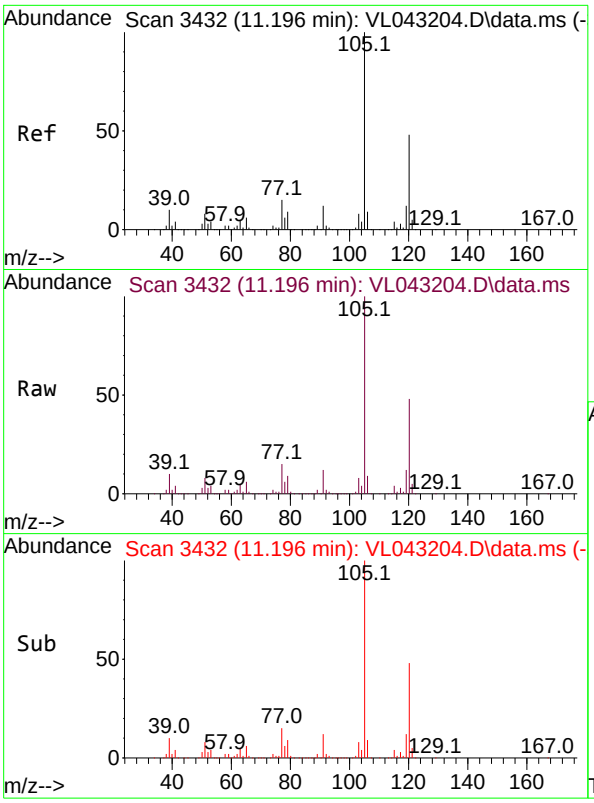


#72
4-Ethyltoluene
Concen: 9.316 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

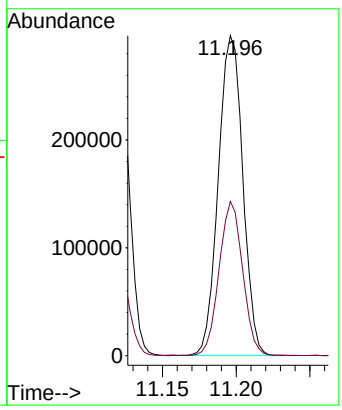




#73
1,3,5-Trimethylbenzene
Concen: 9.244 ppbv
RT: 11.196 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:105 Resp: 34190

Ion	Ratio	Lower	Upper
105	100		
120	48.2	38.6	57.8



Instrument :
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ClientSampleId :
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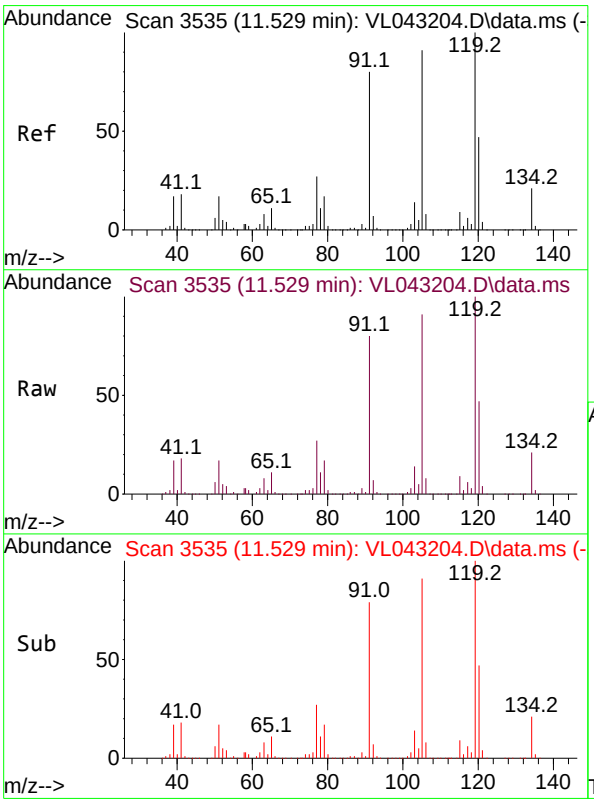
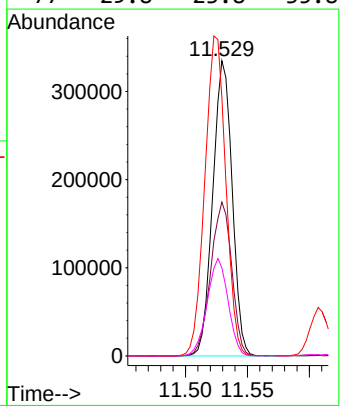
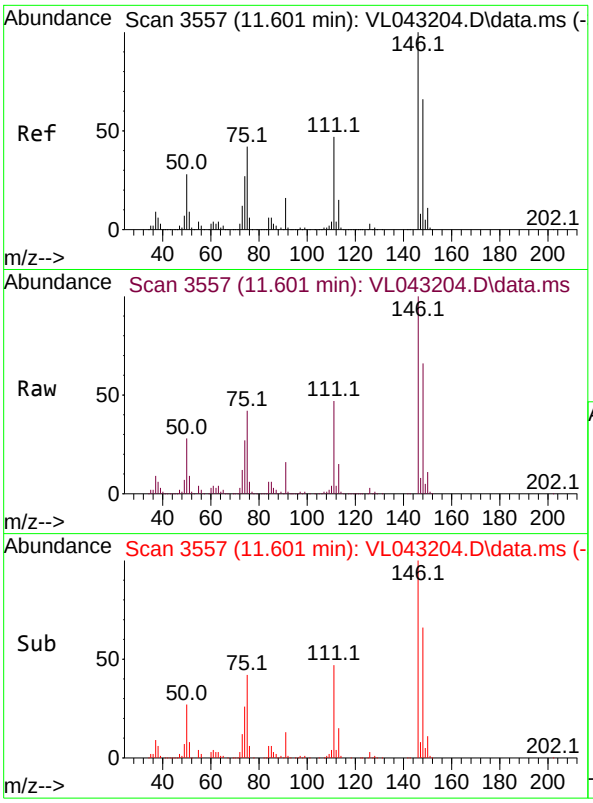


#74
1,2,4-Trimethylbenzene
Concen: 9.005 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

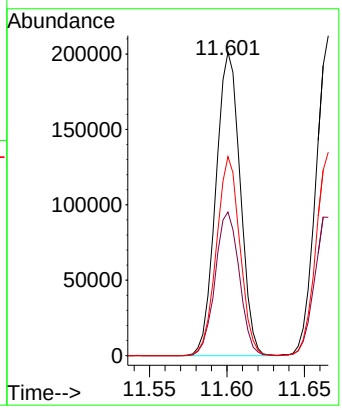




#75
1,3-Dichlorobenzene
Concen: 9.335 ppbv
RT: 11.601 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
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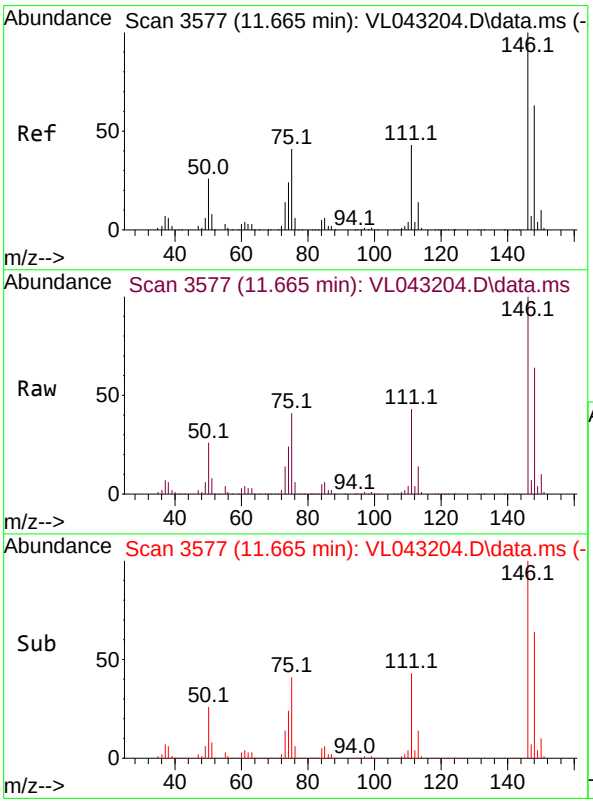
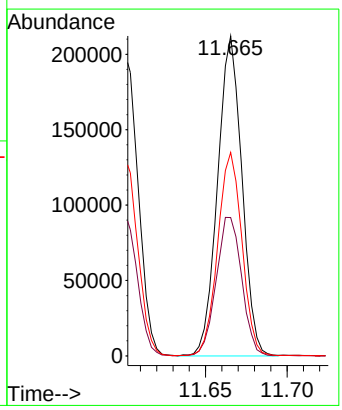
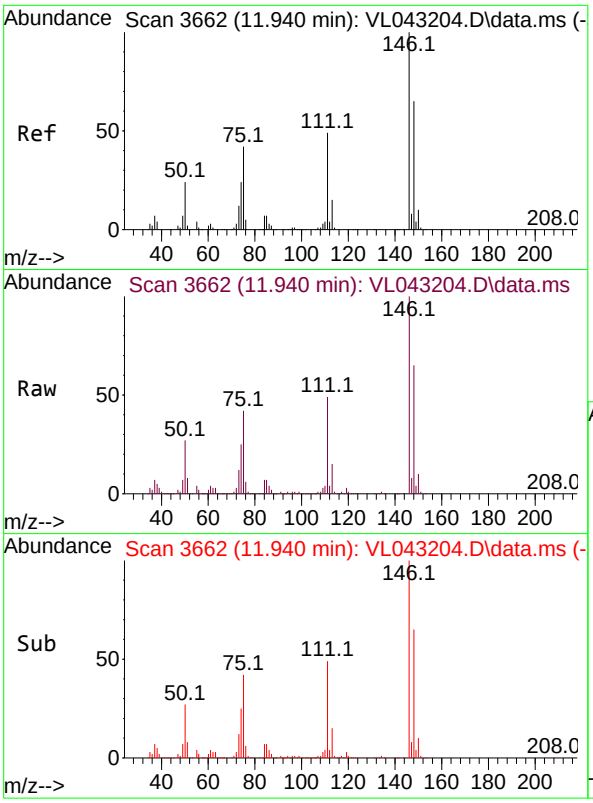


#76
1,4-Dichlorobenzene
Concen: 9.363 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

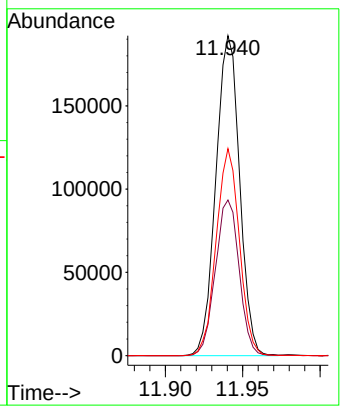




#77
1,2-Dichlorobenzene
Concen: 9.044 ppbv
RT: 11.940 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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 :
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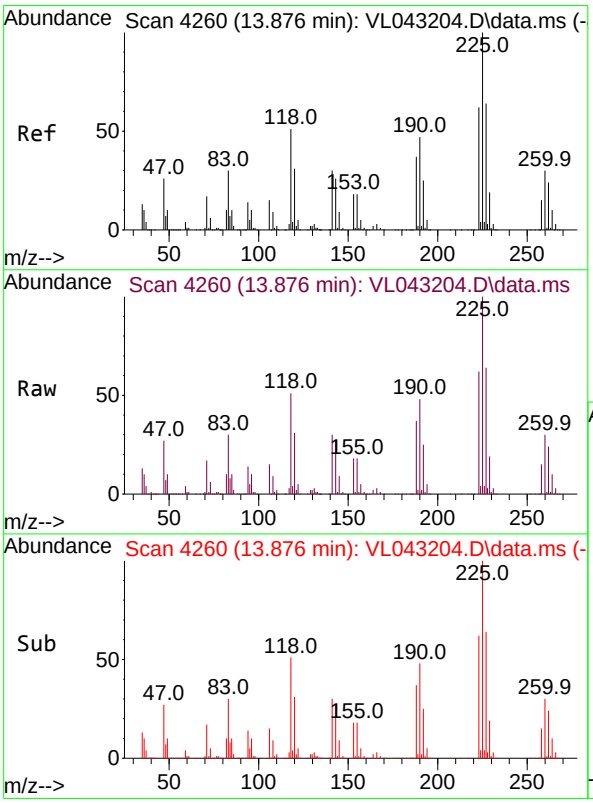
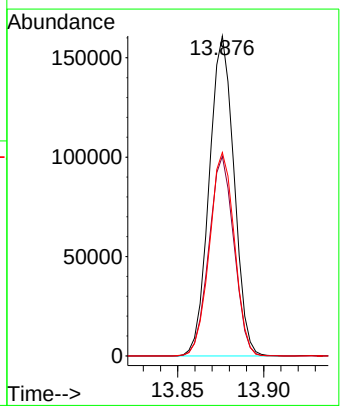
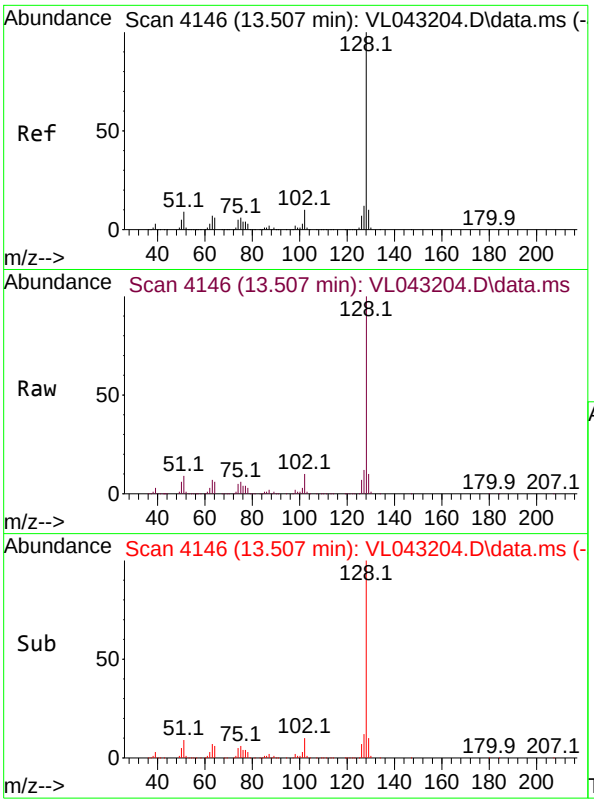


#78
Hexachloro-1,3-Butadiene
Concen: 8.520 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

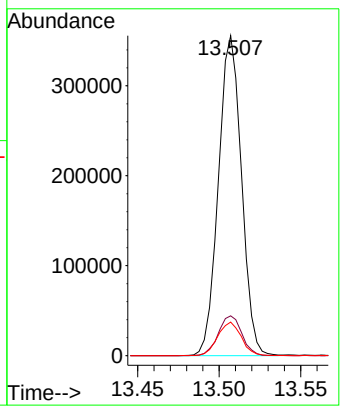




#79
Naphthalene
Concen: 9.795 ppbv
RT: 13.507 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

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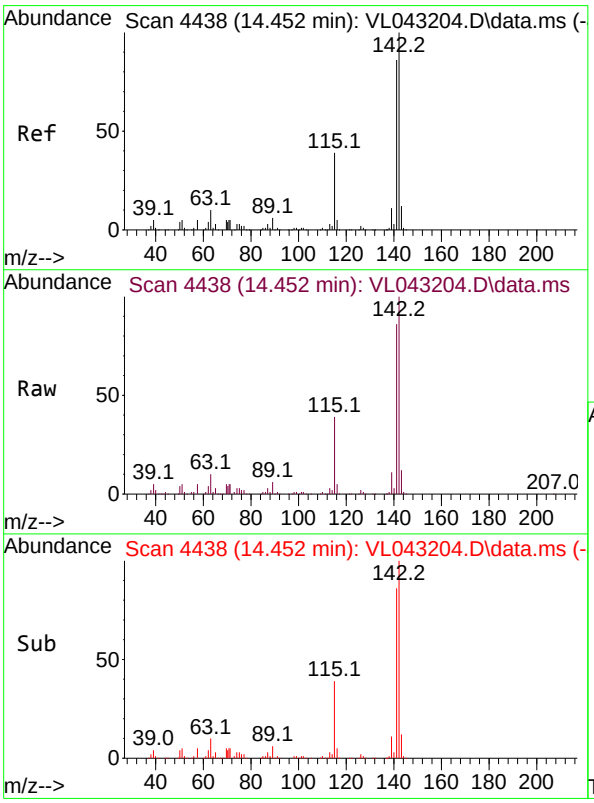
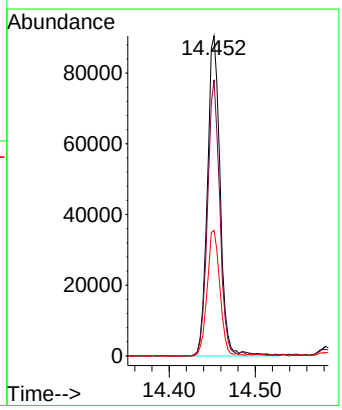
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

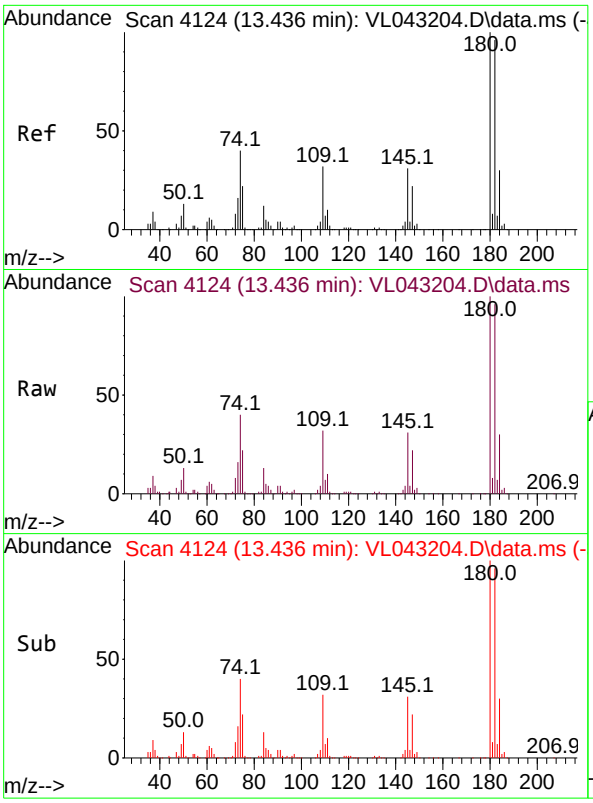


#80
Naphthalene,2-methyl-
Concen: 9.895 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

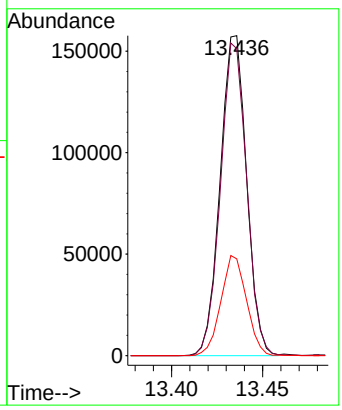




#81
1,2,4-Trichlorobenzene
Concen: 9.923 ppbv
RT: 13.436 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

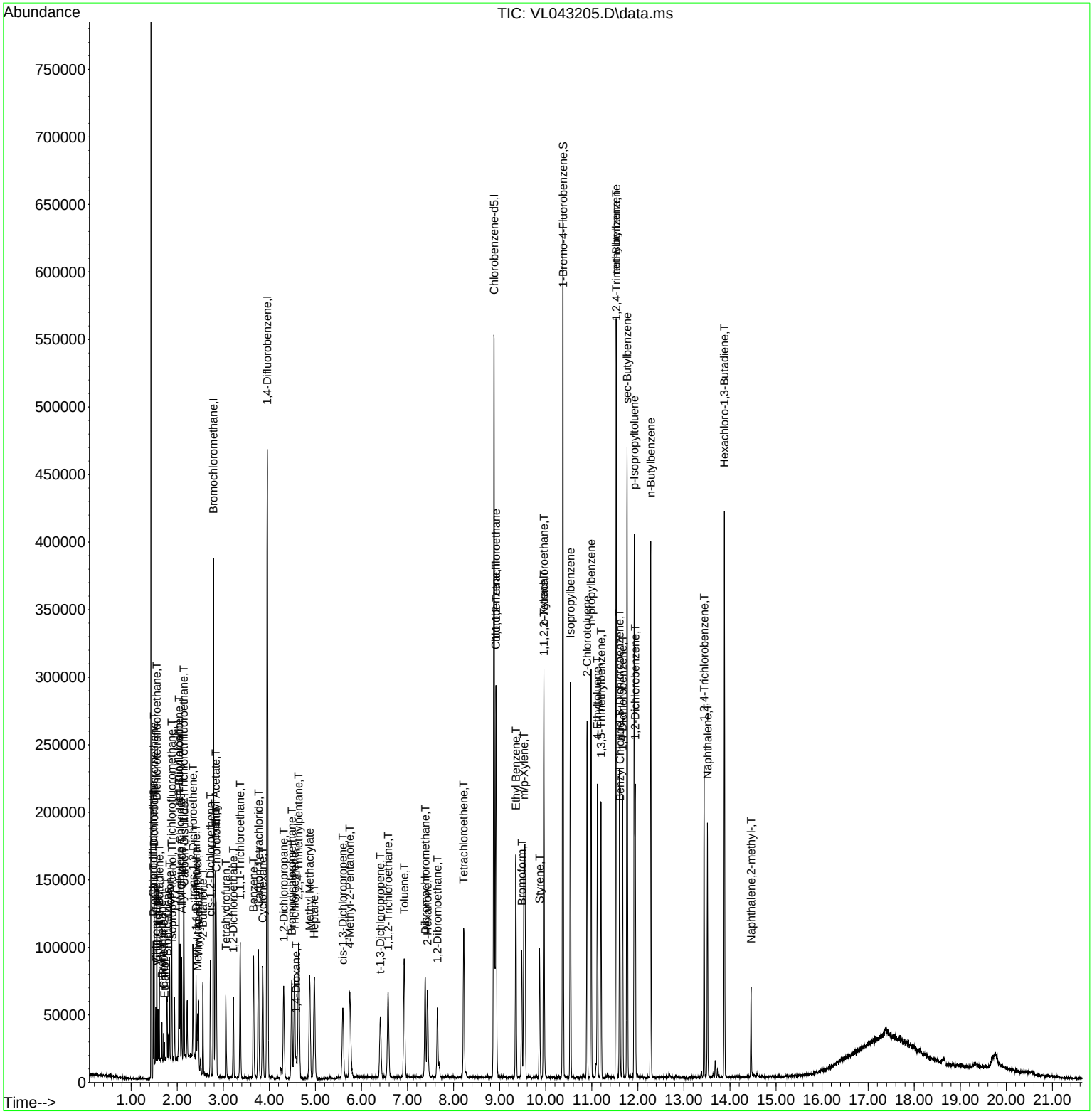
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043205.D
Acq On : 18 Nov 2025 10:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

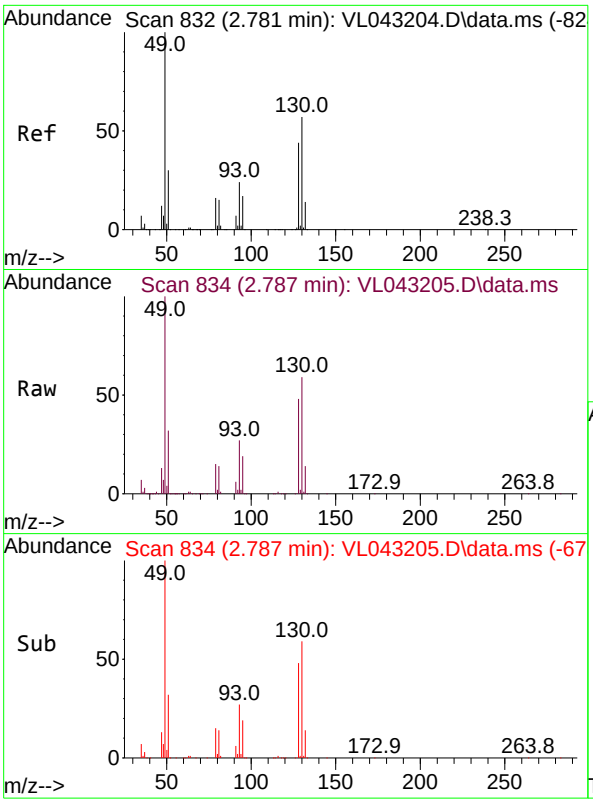
Quant Time: Nov 19 00:50:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

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

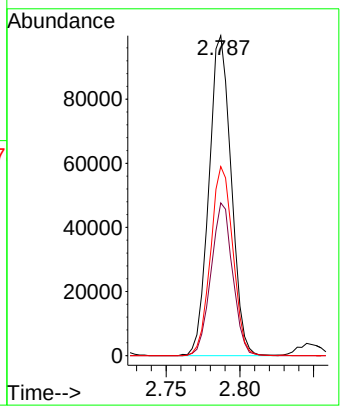




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 49 Resp: 10464

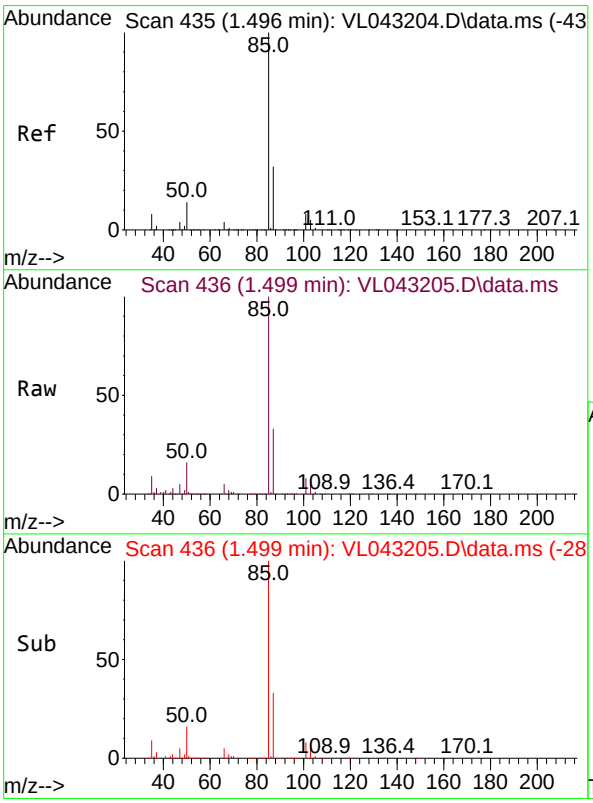
Ion	Ratio	Lower	Upper
49	100		
128	46.4	23.0	69.0
130	59.1	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

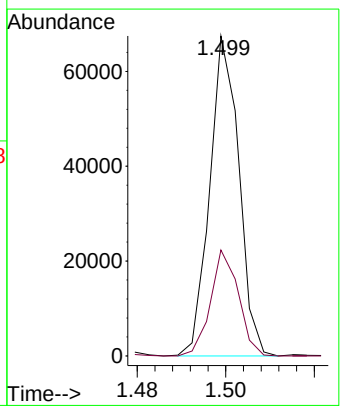
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

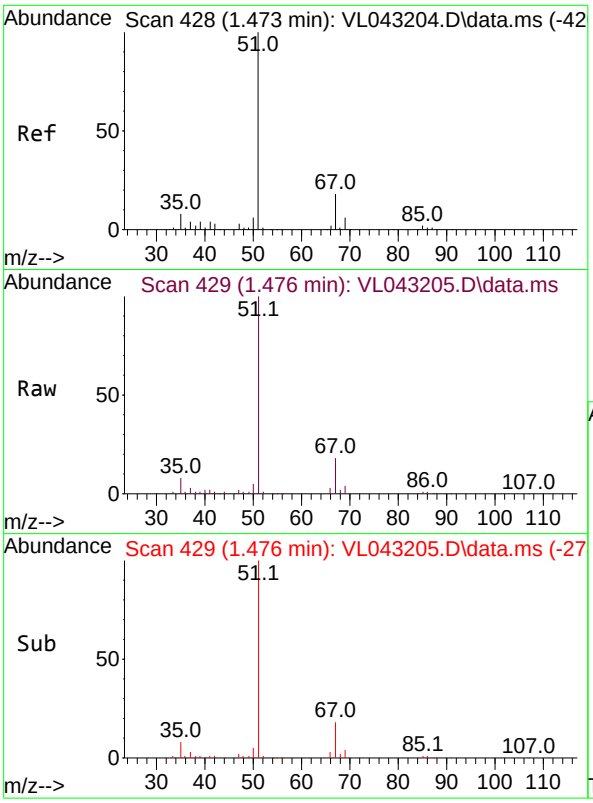


#2
Dichlorodifluoromethane
Concen: 2.092 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 85 Resp: 30881

Ion	Ratio	Lower	Upper
85	100		
87	33.1	25.4	38.2

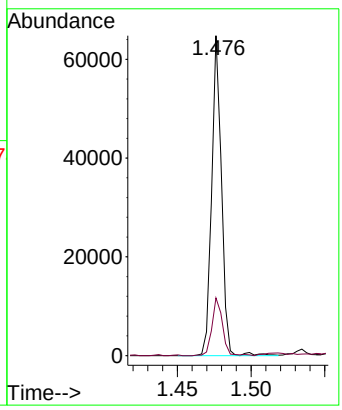




#3
Chlorodifluoromethane
Concen: 2.072 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 51 Resp: 3006

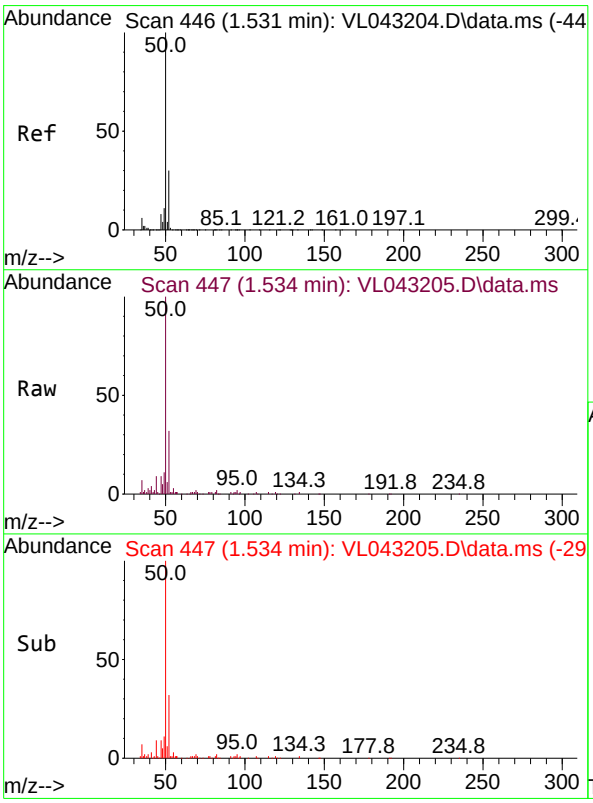
Ion	Ratio	Lower	Upper
51	100		
67	19.4	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

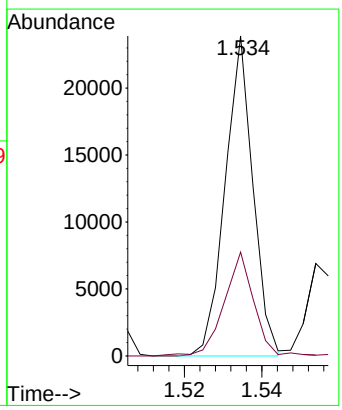
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

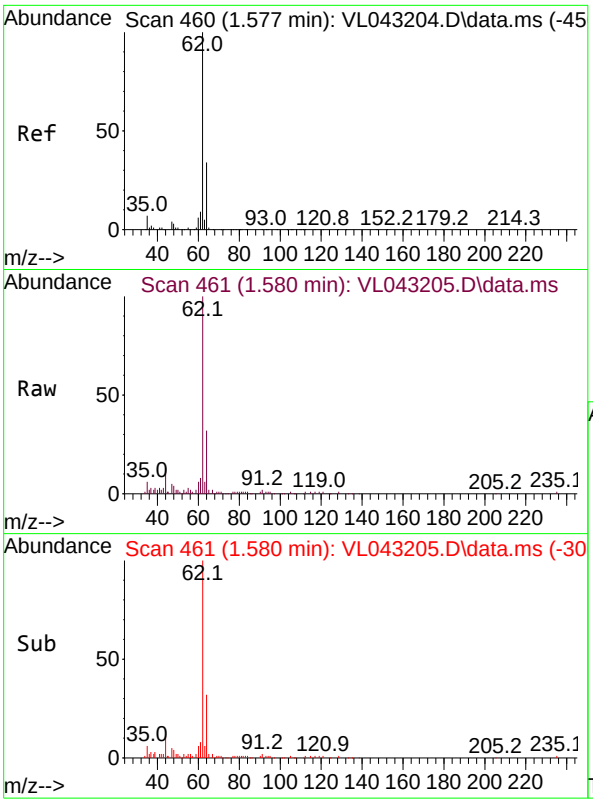


#4
Chloromethane
Concen: 2.155 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 50 Resp: 11890

Ion	Ratio	Lower	Upper
50	100		
52	32.0	24.1	36.1

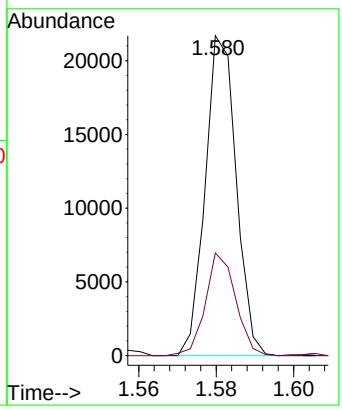




#5
Vinyl Chloride
Concen: 1.995 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 62 Resp: 1204

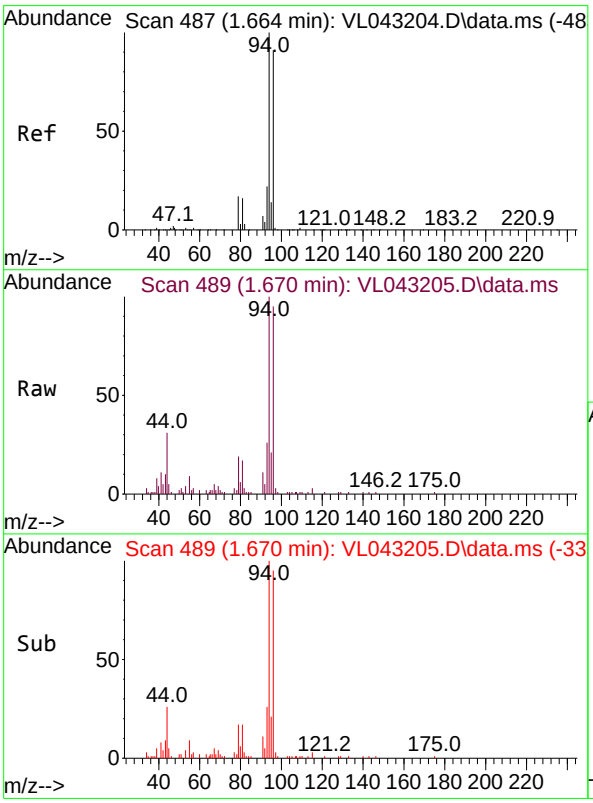
Ion	Ratio	Lower	Upper
62	100		
64	32.1	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

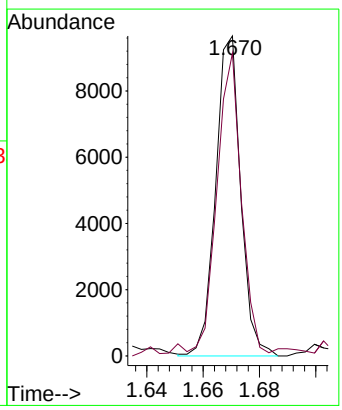
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

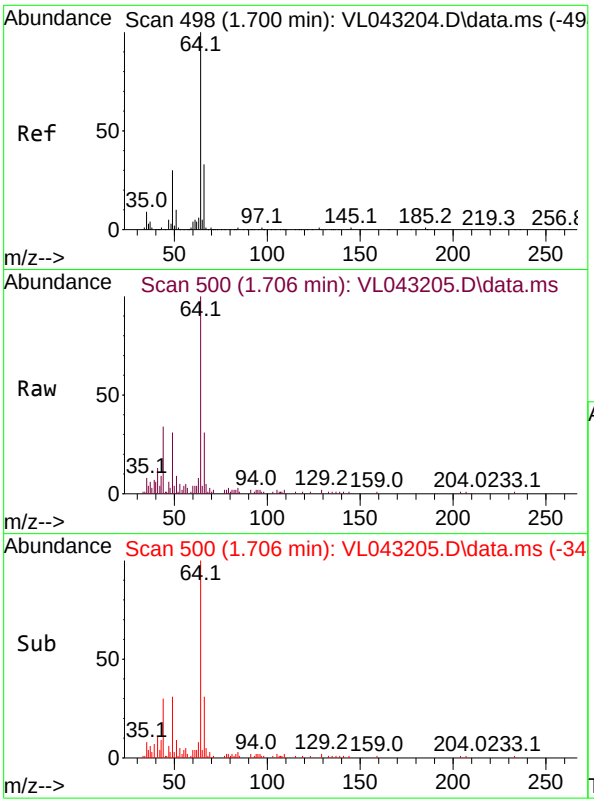


#6
Bromomethane
Concen: 2.044 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 94 Resp: 5981

Ion	Ratio	Lower	Upper
94	100		
96	92.4	72.9	109.3

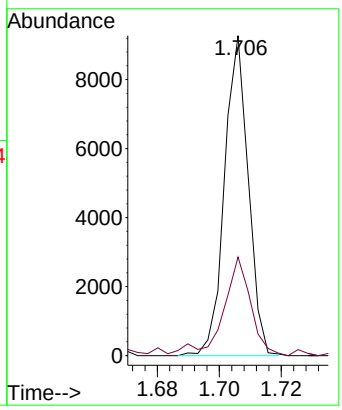




#7
Chloroethane
Concen: 2.103 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 64 Resp: 494

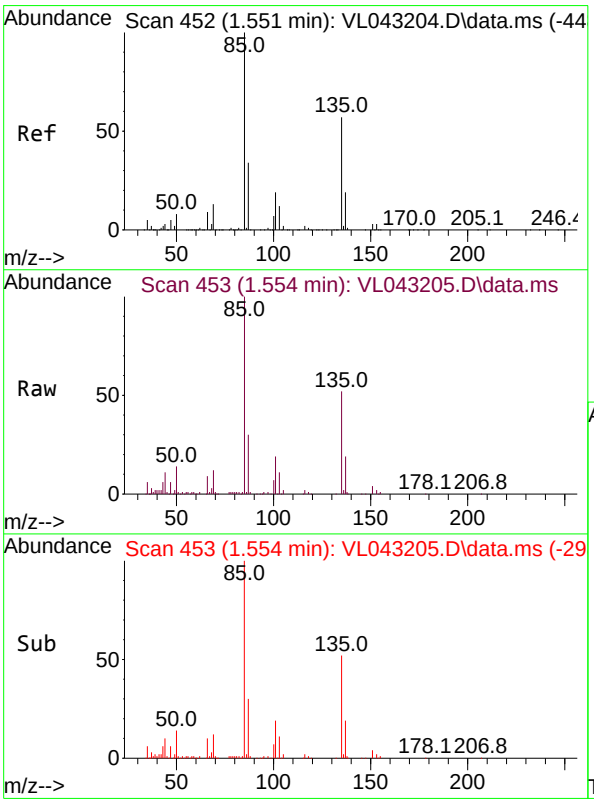
Ion	Ratio	Lower	Upper
64	100		
66	30.8	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

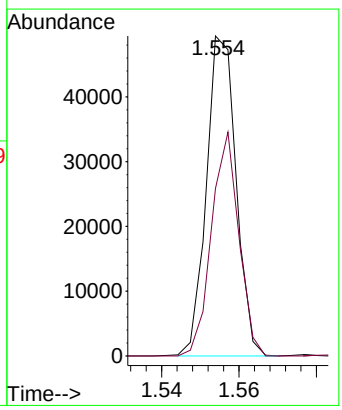
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

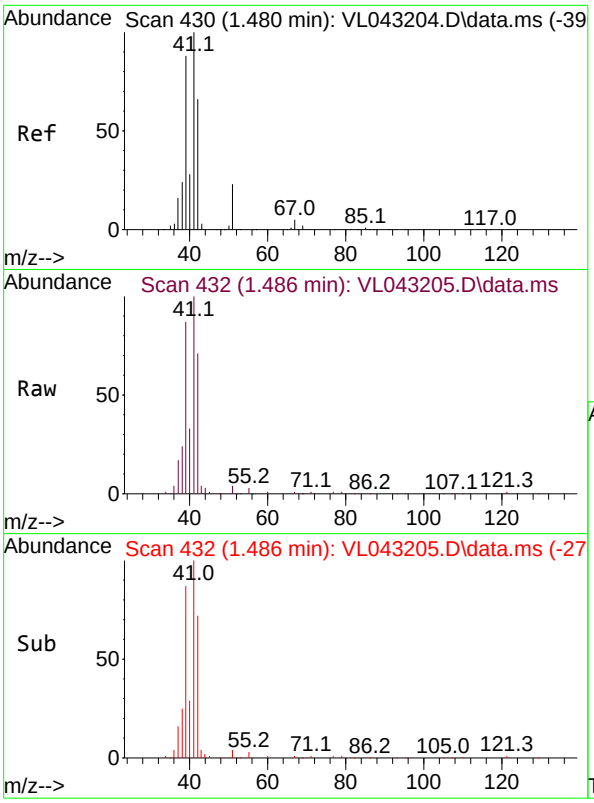


#8
Dichlorotetrafluoroethane
Concen: 2.151 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 85 Resp: 26409

Ion	Ratio	Lower	Upper
85	100		
135	64.3	52.6	79.0

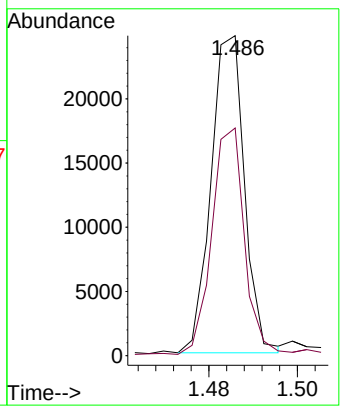




#9
Propene
Concen: 1.930 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 41 Resp: 1299

Ion	Ratio	Lower	Upper
41	100		
42	75.1	3.7	5.5#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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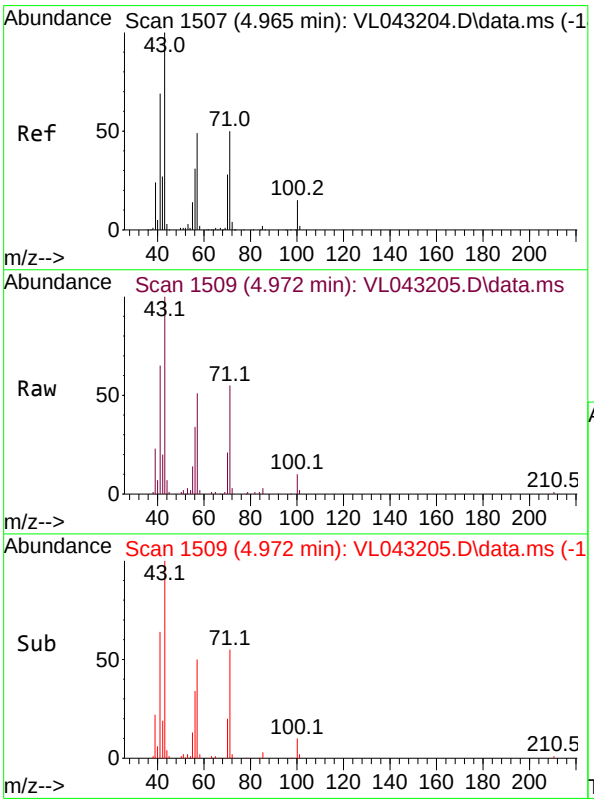
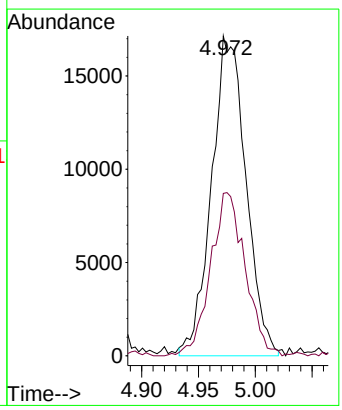
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

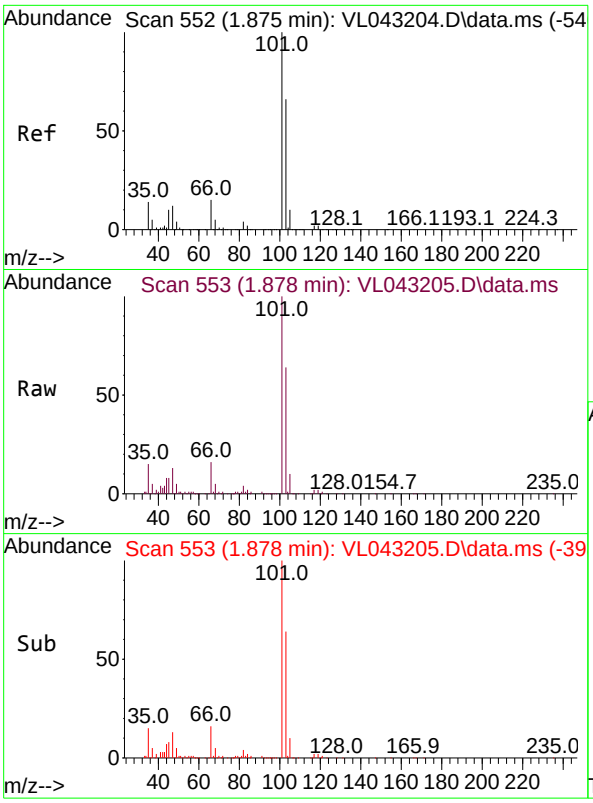


#10
Heptane
Concen: 1.958 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 36171

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#

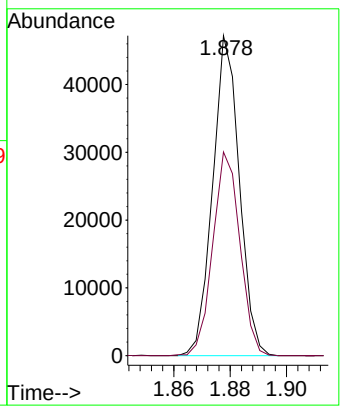




#11
Trichlorofluoromethane
Concen: 2.177 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:101 Resp: 3112

Ion	Ratio	Lower	Upper
101	100		
103	63.6	52.6	79.0



Instrument :
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ClientSampleId :
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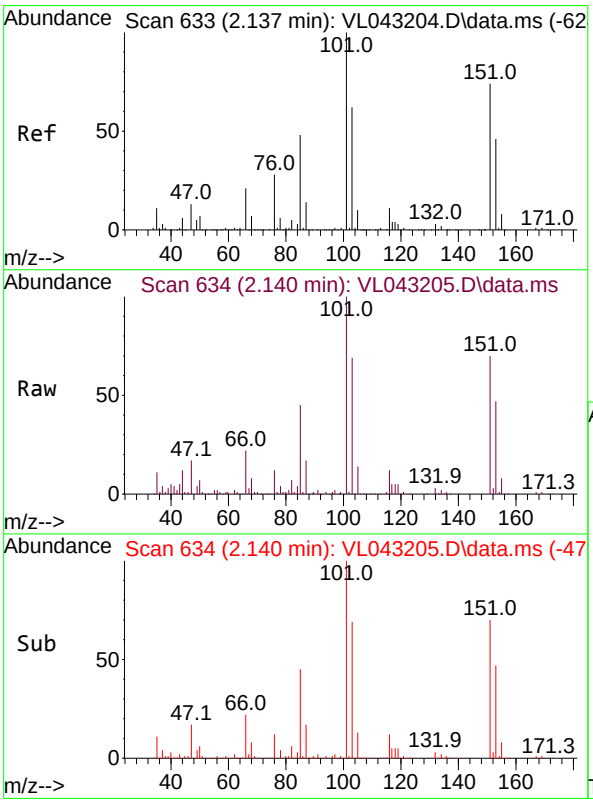
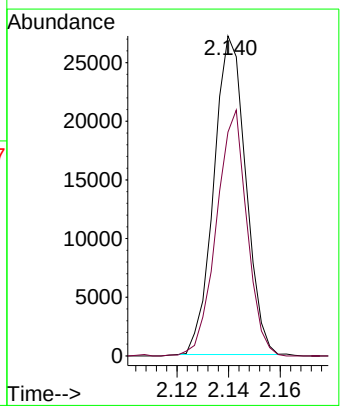
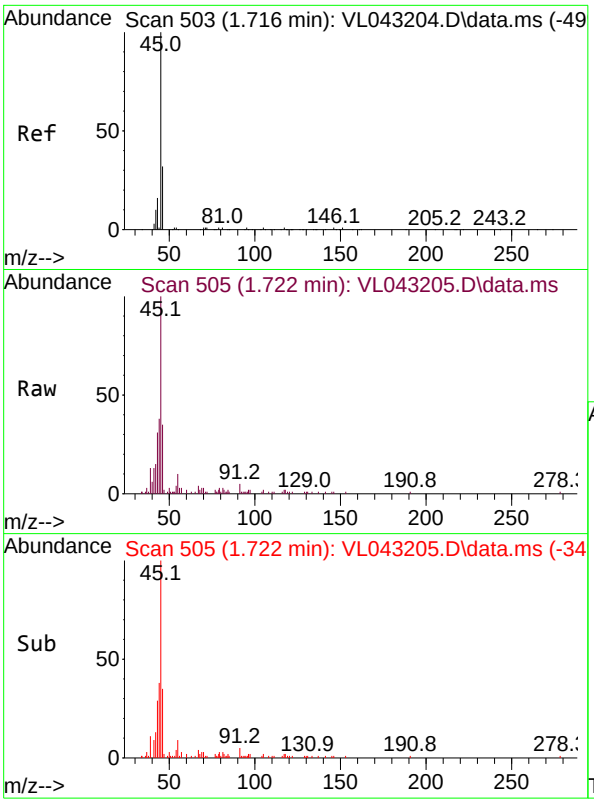


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.090 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:101 Resp: 23336

Ion	Ratio	Lower	Upper
101	100		
151	73.8	59.2	88.8

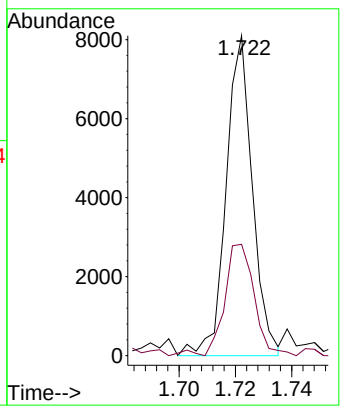




#13
Ethanol
Concen: 2.430 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 45 Resp: 526

Ion	Ratio	Lower	Upper
45	100		
46	45.7	15.0	59.8



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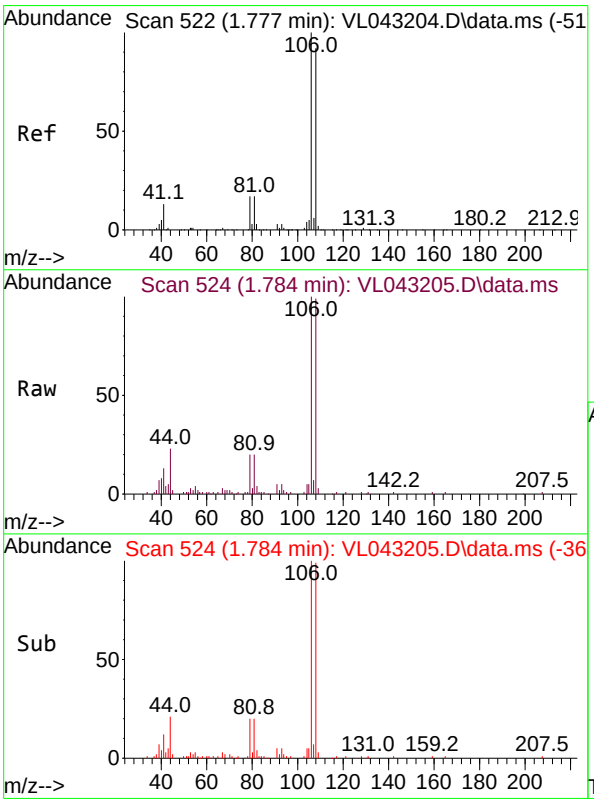
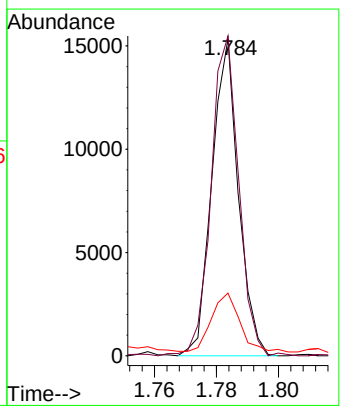
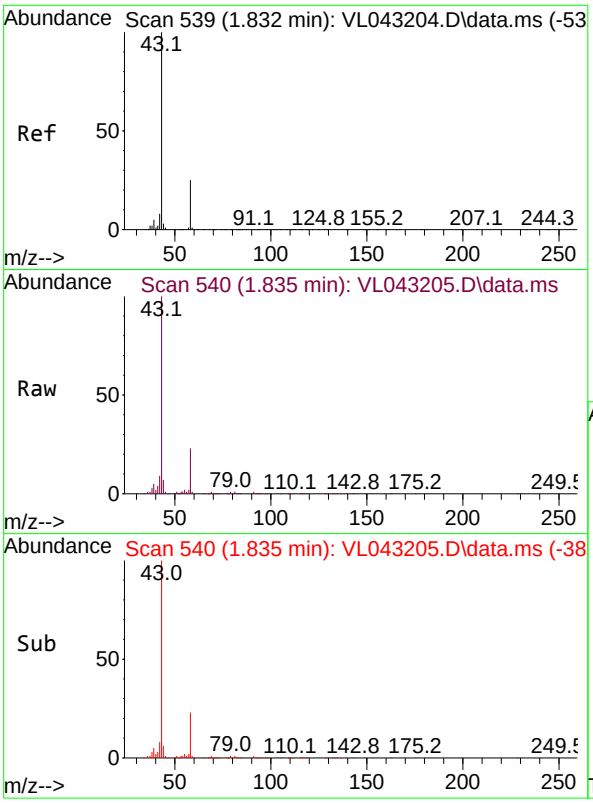


#14
Bromoethene
Concen: 2.133 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

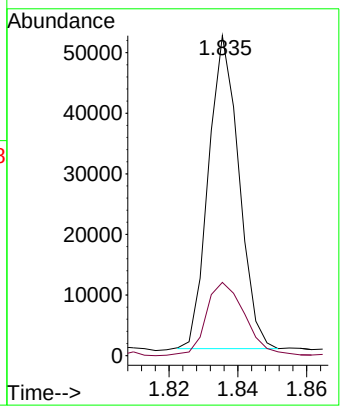




#15
Acetone
Concen: 2.186 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 3178

Ion	Ratio	Lower	Upper
43	100		
58	30.6	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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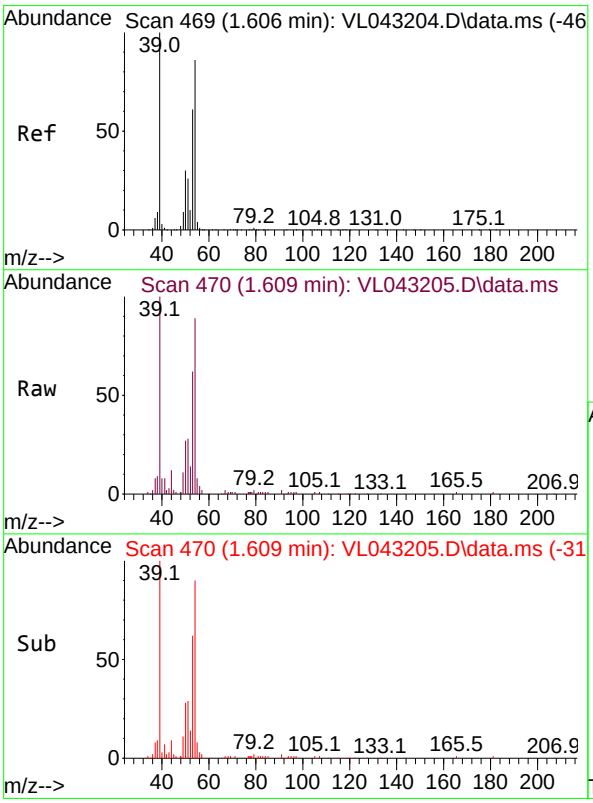
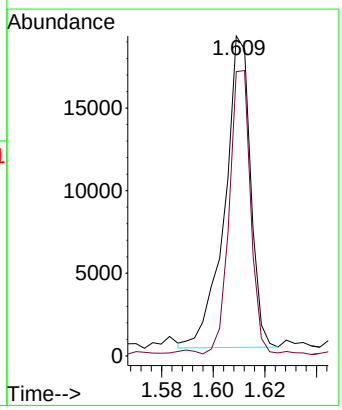
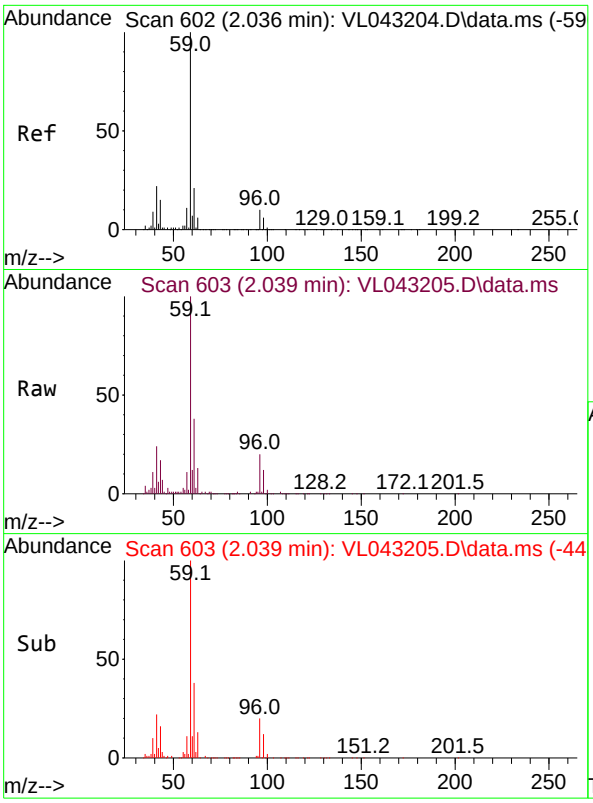


#16
1,3-Butadiene
Concen: 2.021 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 39 Resp: 13101

Ion	Ratio	Lower	Upper
39	100		
54	83.3	59.4	89.2

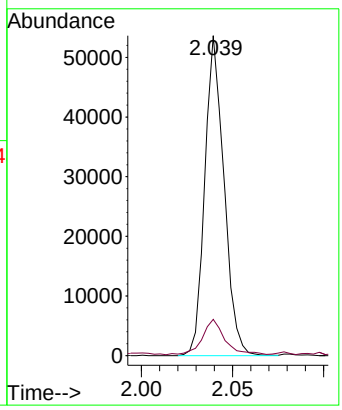




#17
tert-Butyl alcohol
Concen: 2.062 ppbv
RT: 2.039 min Scan# 6(
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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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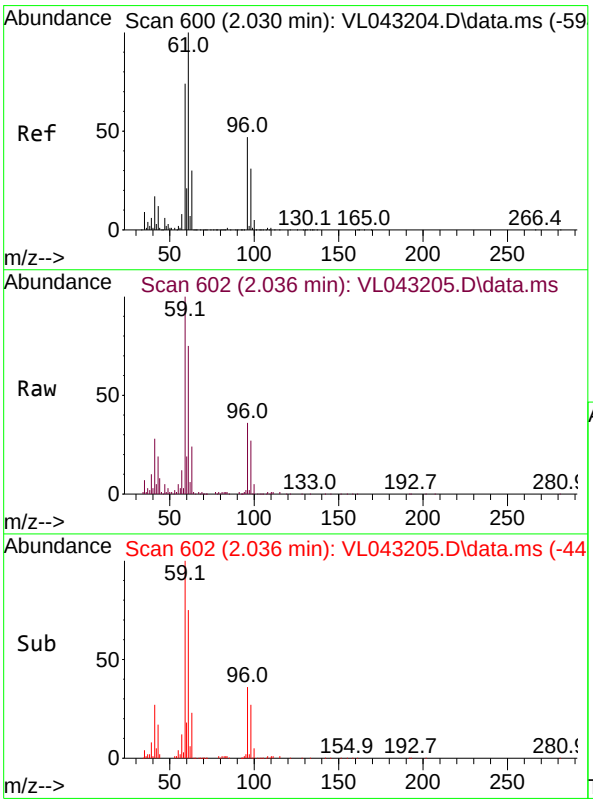
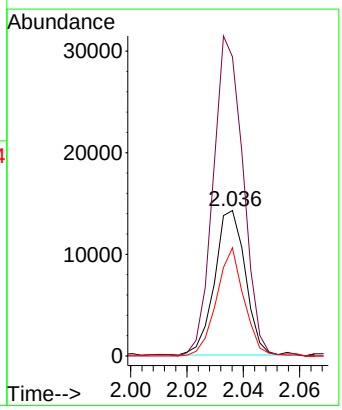
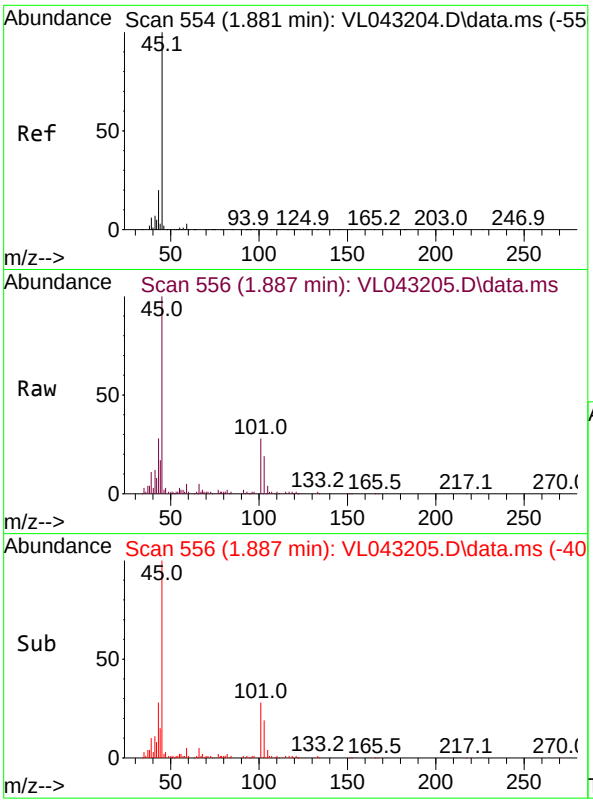


#18
1,1-Dichloroethene
Concen: 2.074 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

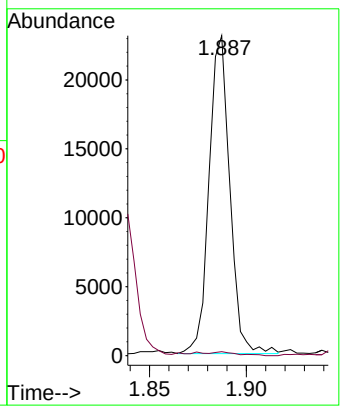




#19
Isopropyl Alcohol
Concen: 2.097 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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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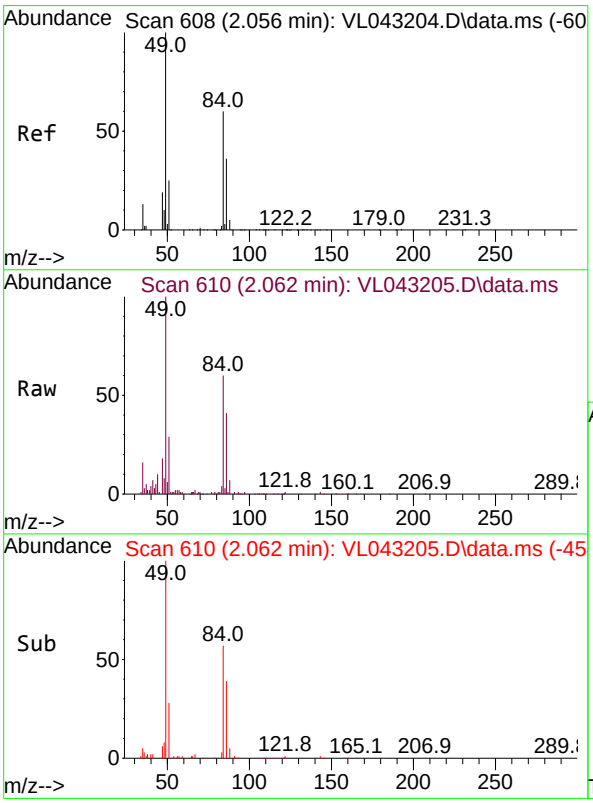
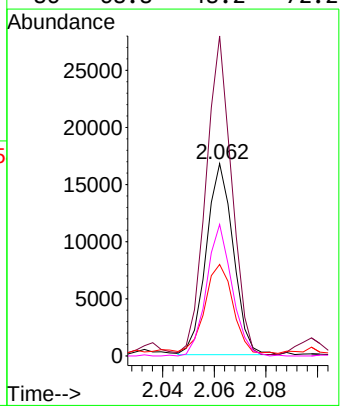
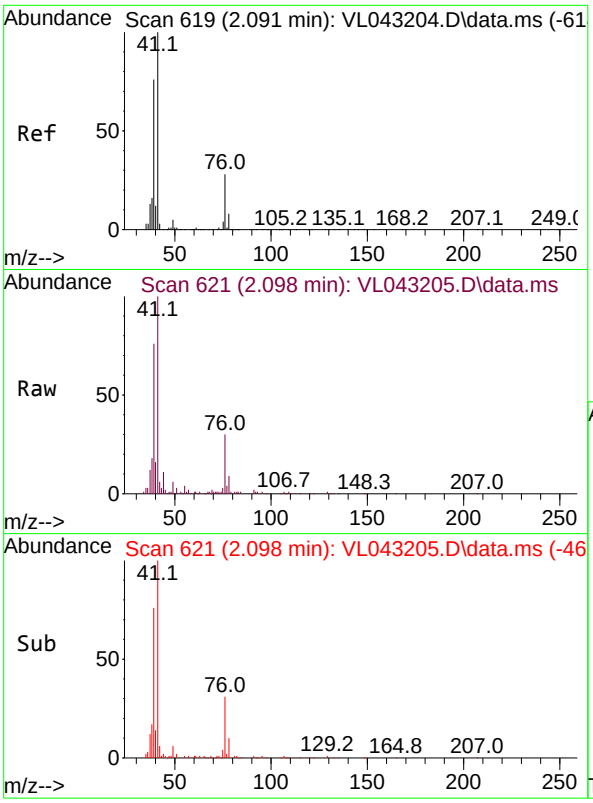


#20
Methylene Chloride
Concen: 2.248 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

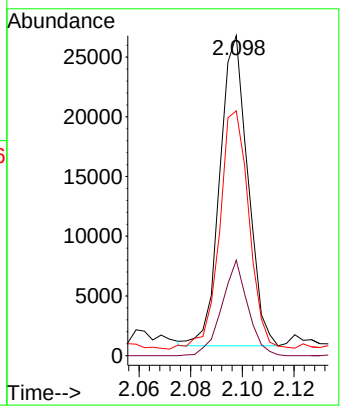




#21
Allyl Chloride
Concen: 2.002 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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 :
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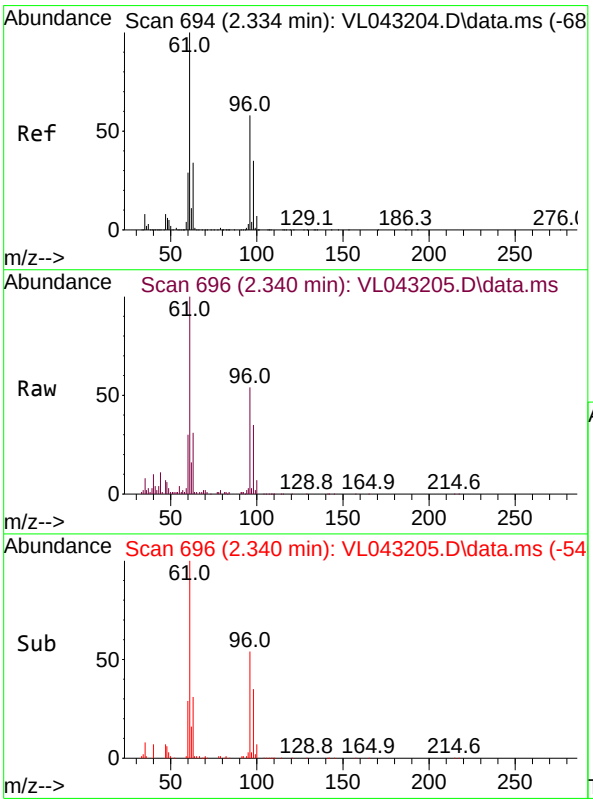
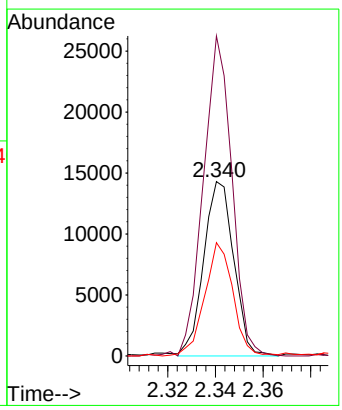
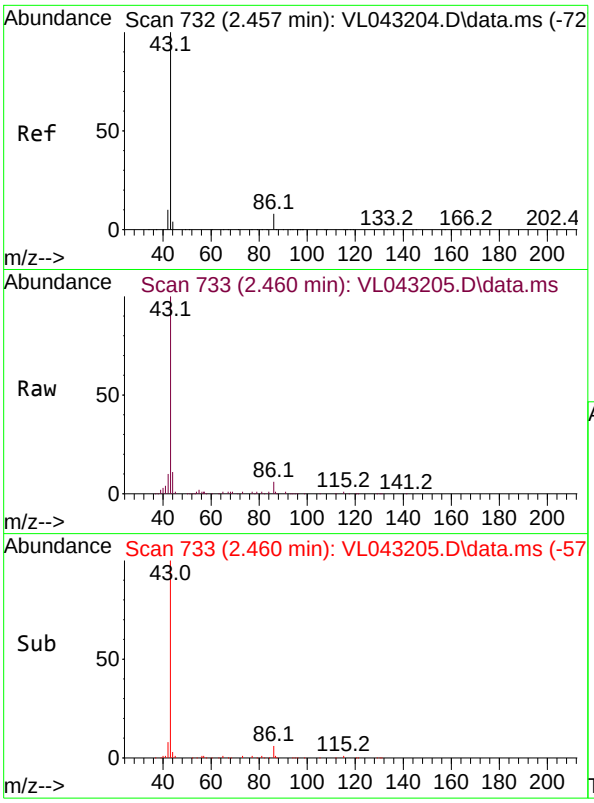


#22
trans-1,2-Dichloroethene
Concen: 2.110 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

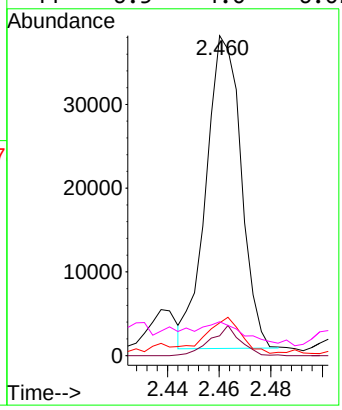




#23
Vinyl Acetate
Concen: 2.006 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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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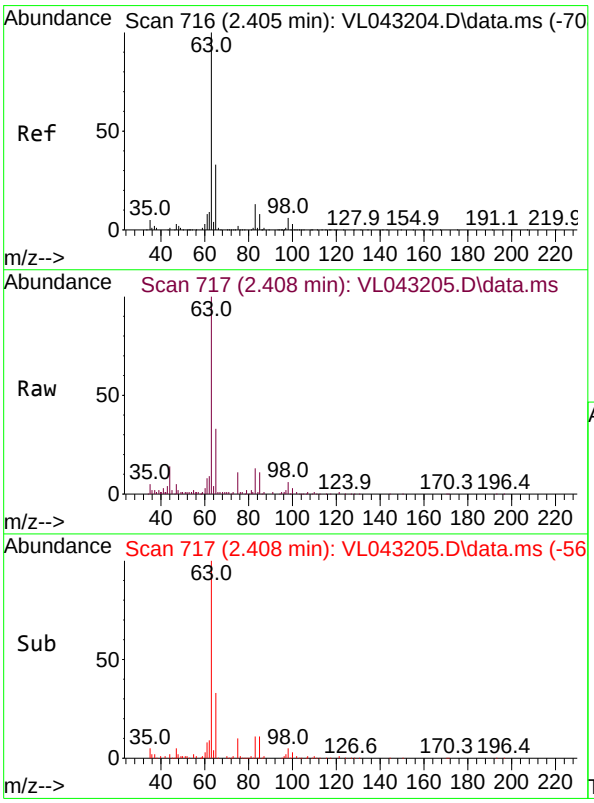
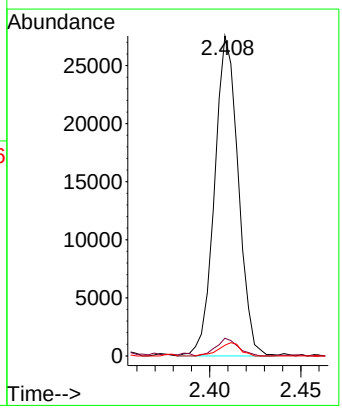
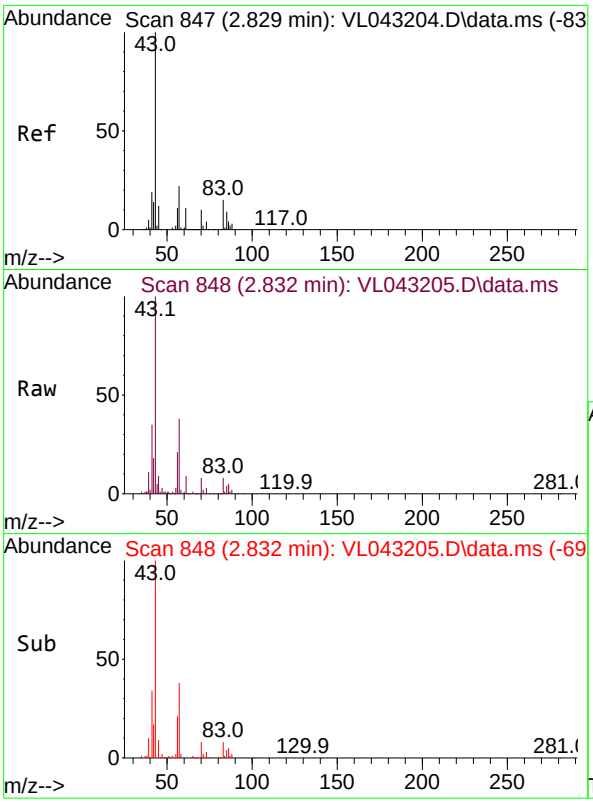


#24
1,1-Dichloroethane
Concen: 2.179 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

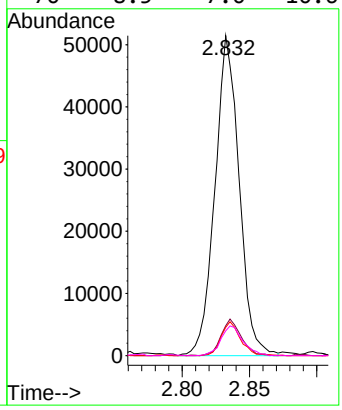




#25
Ethyl Acetate
Concen: 2.048 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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 :
MSVOA_L
ClientSampleId :
VSTDICC002

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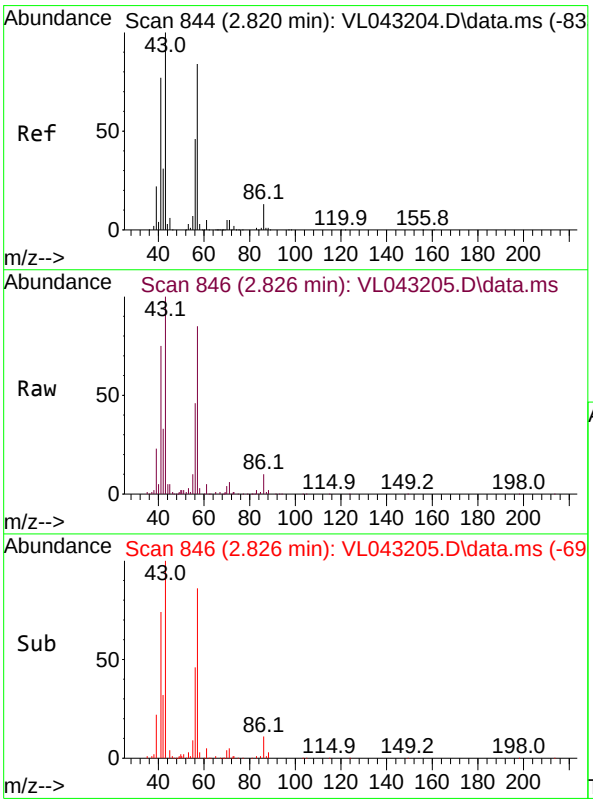
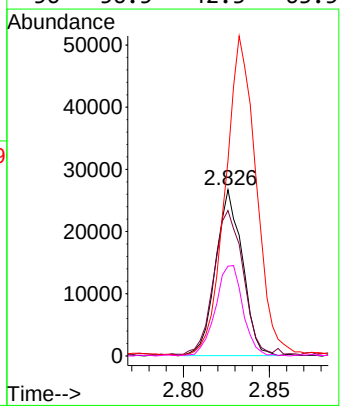
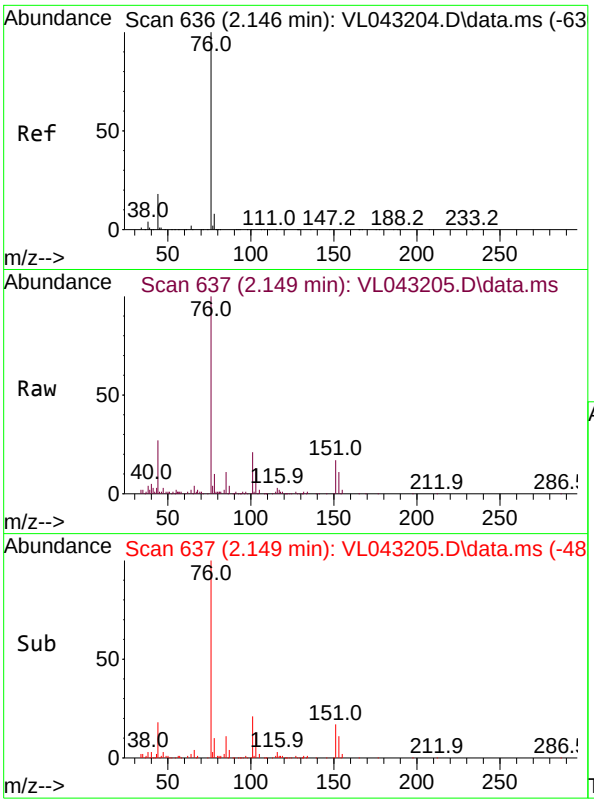


#26
Hexane
Concen: 2.093 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

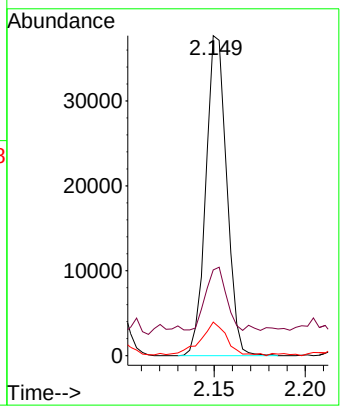




#27
Carbon Disulfide
Concen: 2.135 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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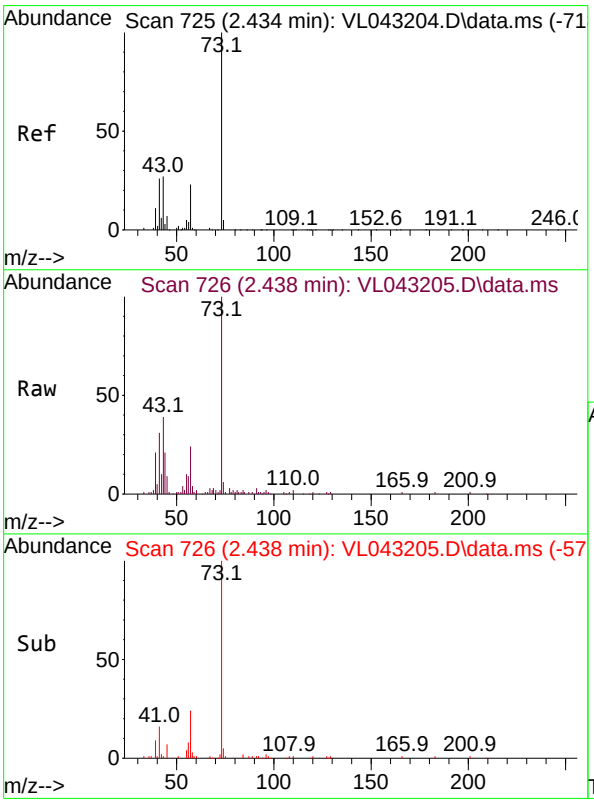
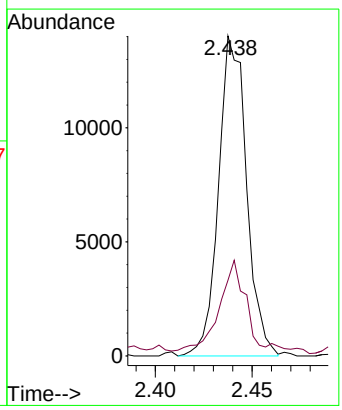
Supervised By :Mahesh Dadoda 11/19/2025

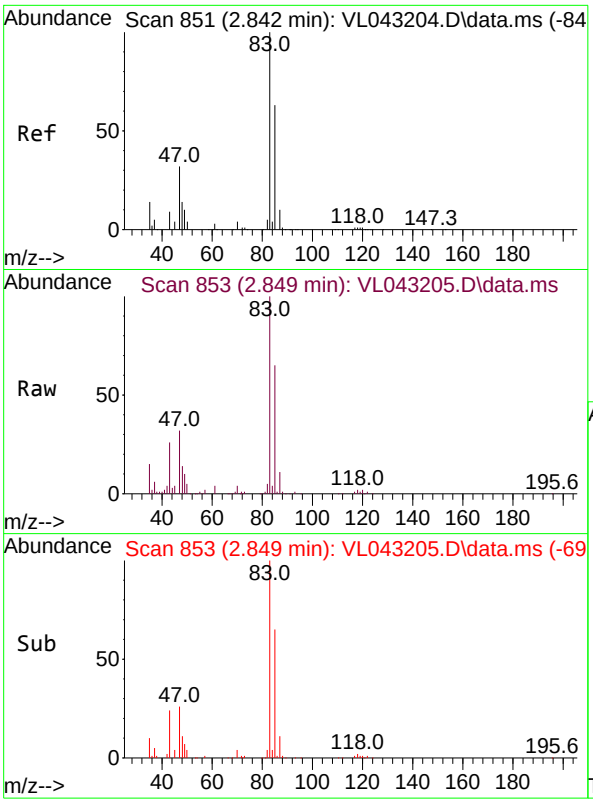


#28
Methyl tert-Butyl Ether
Concen: 2.090 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 73 Resp: 14101

Ion	Ratio	Lower	Upper
73	100		
57	32.5	19.8	29.8#

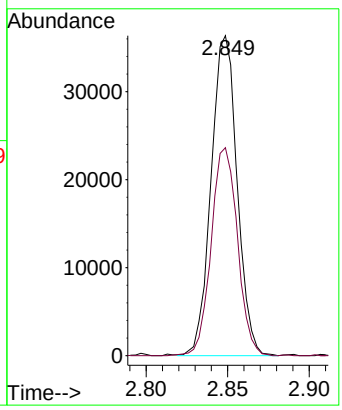




#29
Chloroform
Concen: 2.065 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 83 Resp: 4035

Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.5	75.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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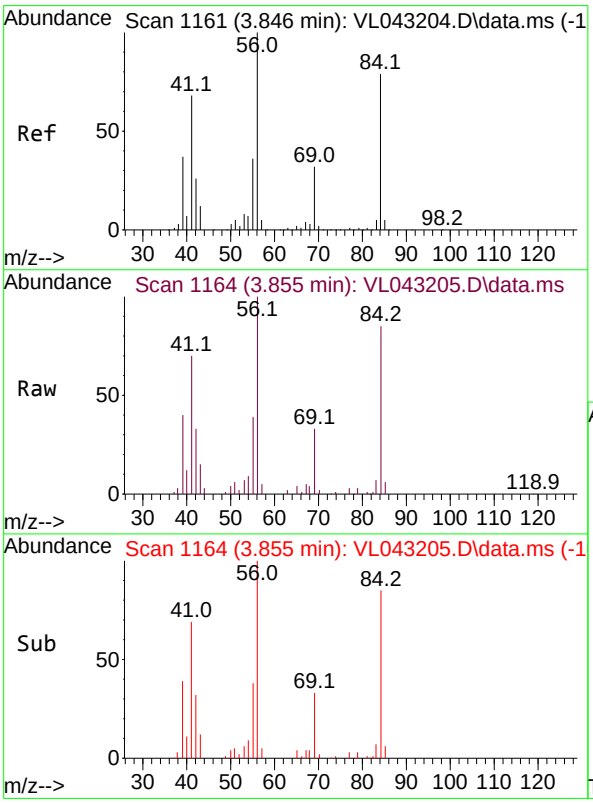
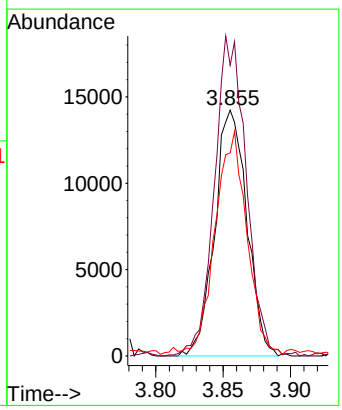
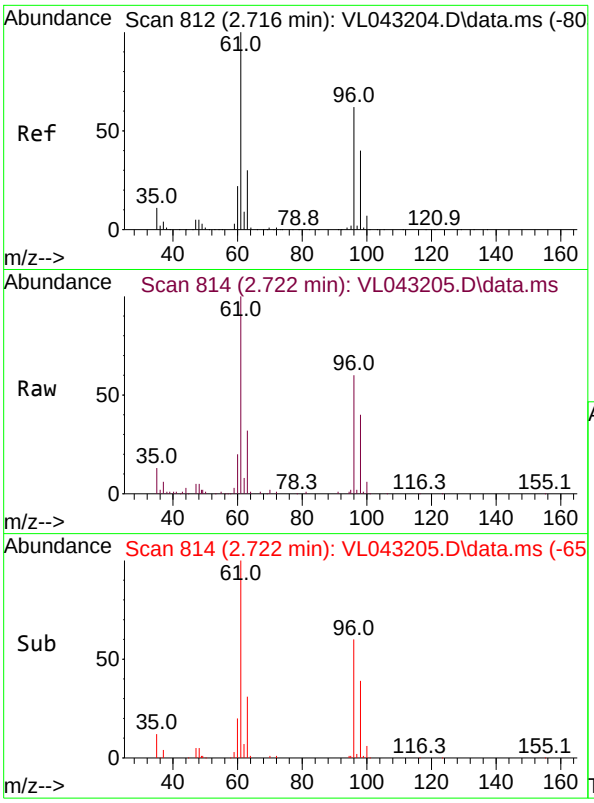


#30
Cyclohexane
Concen: 2.053 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

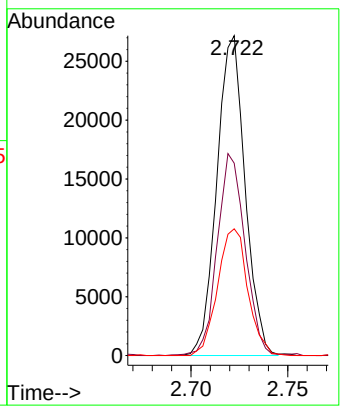




#31
cis-1,2-Dichloroethene
Concen: 2.024 ppbv
RT: 2.722 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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 :
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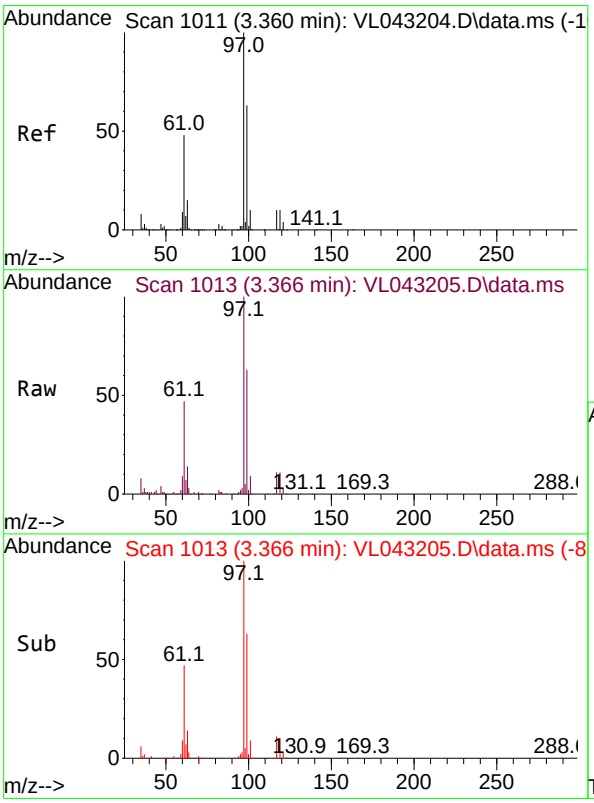
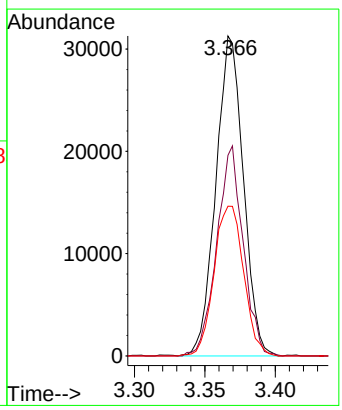
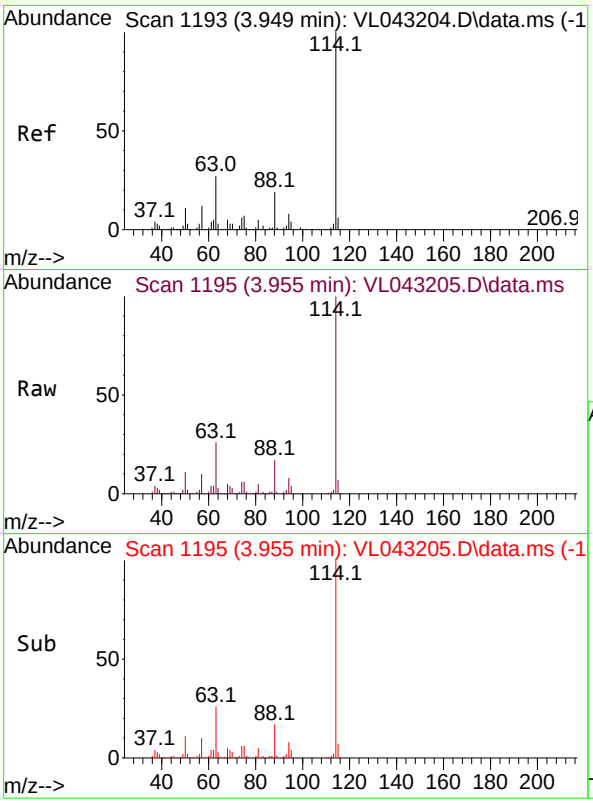


#32
1,1,1-Trichloroethane
Concen: 2.024 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

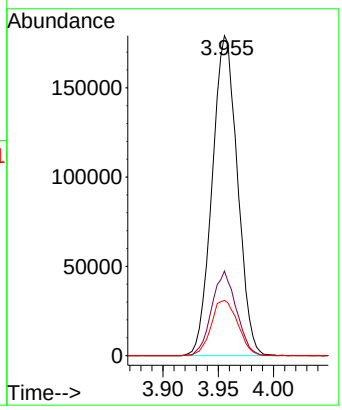




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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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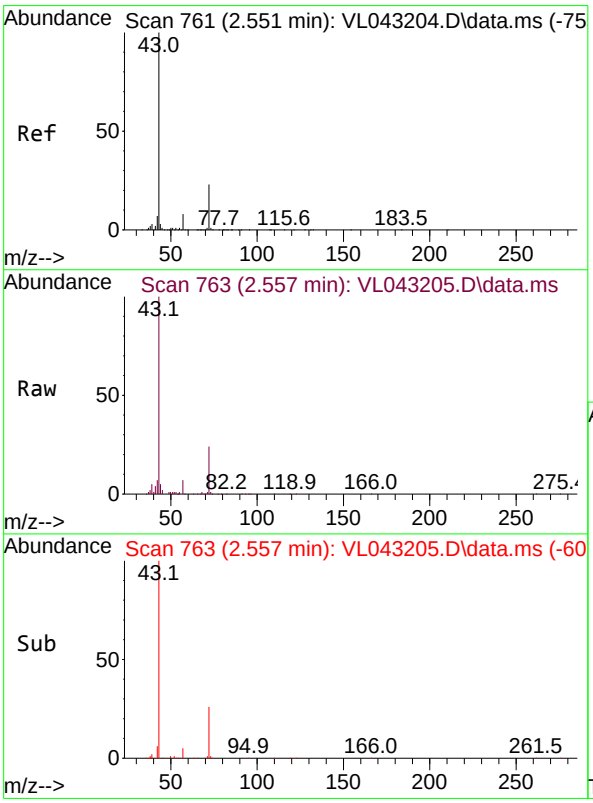
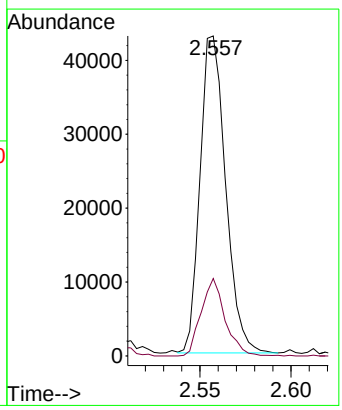
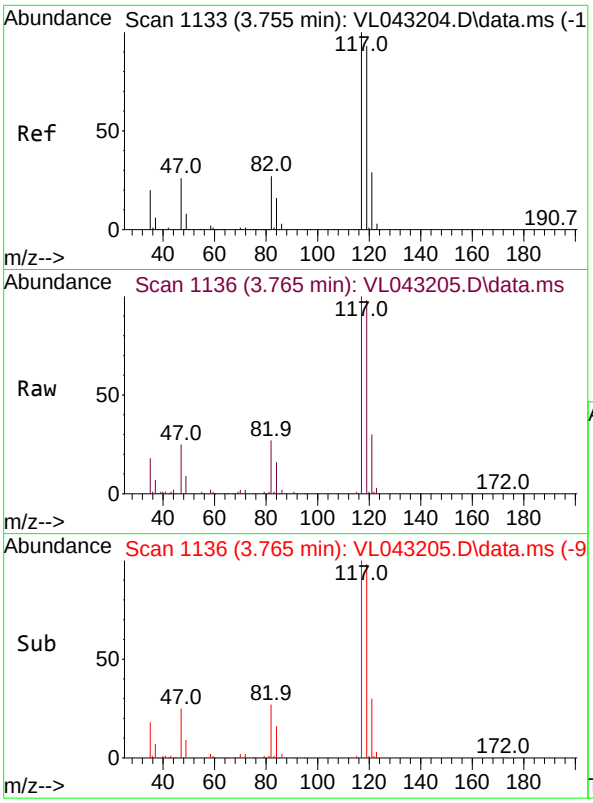


#34
2-Butanone
Concen: 2.085 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 41884

Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.1	27.1

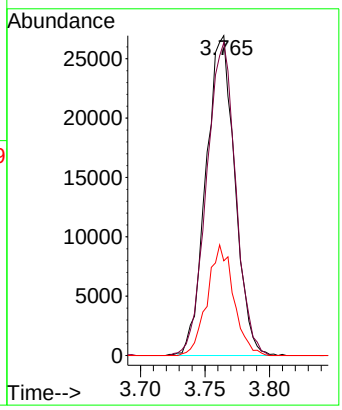




#35
Carbon Tetrachloride
Concen: 1.942 ppbv
RT: 3.765 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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 :
VSTDICC002

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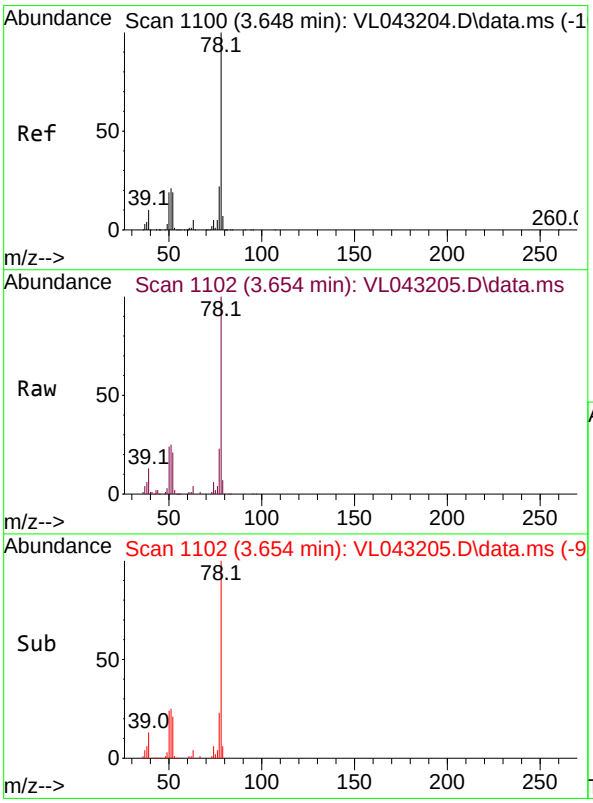
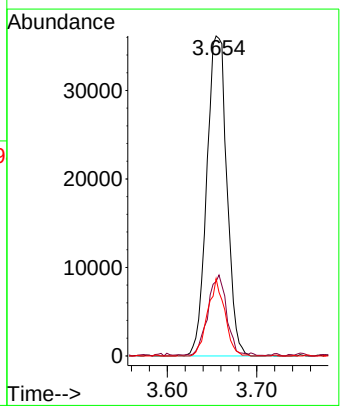
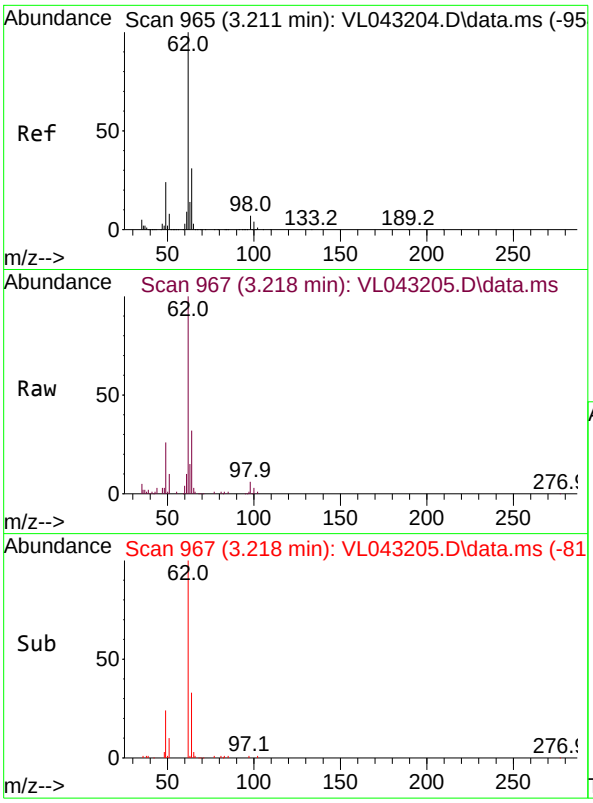


#36
Benzene
Concen: 2.060 ppbv m
RT: 3.654 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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#

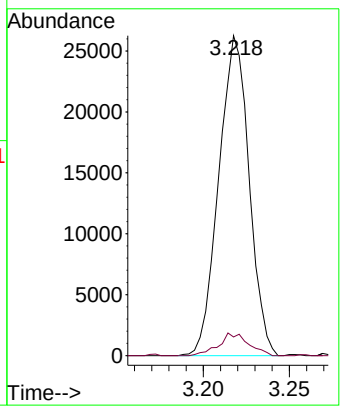




#37
1,2-Dichloroethane
Concen: 2.019 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 62 Resp: 3218

Ion	Ratio	Lower	Upper
62	100		
98	7.0	5.5	8.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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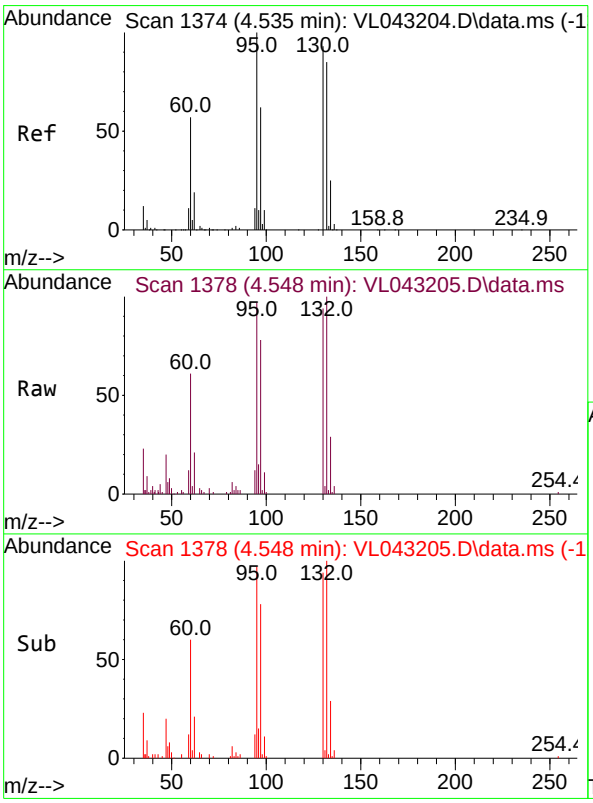
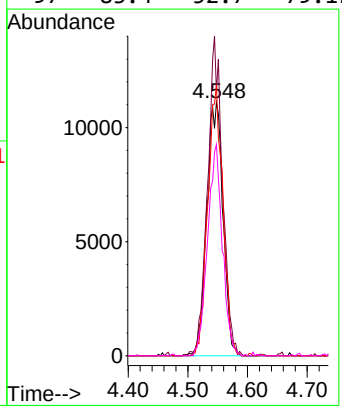
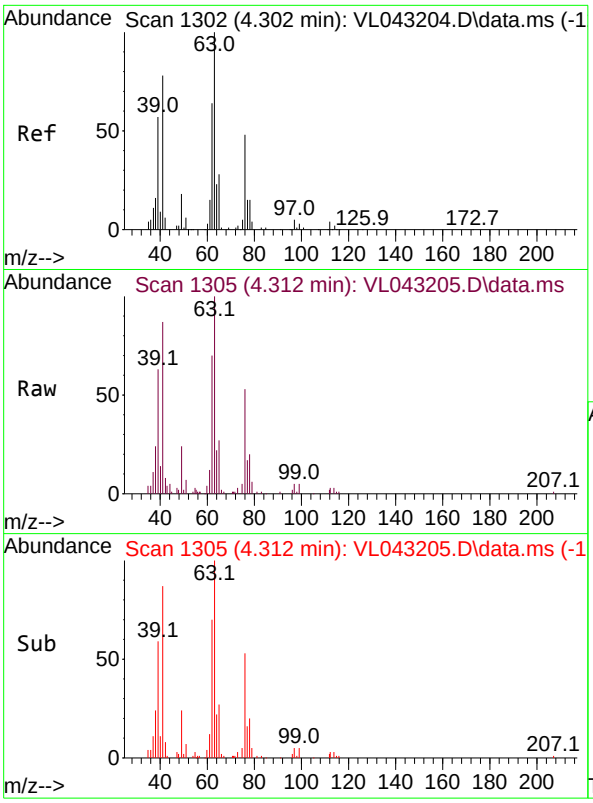


#38
Trichloroethene
Concen: 1.975 ppbv m
RT: 4.548 min Scan# 1378
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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#

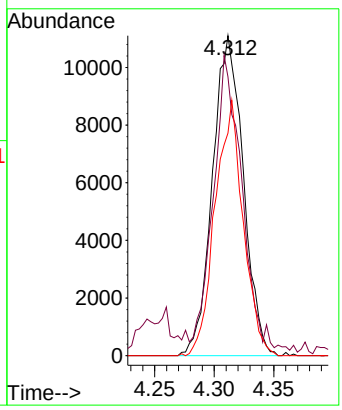




#39
1,2-Dichloropropane
Concen: 1.996 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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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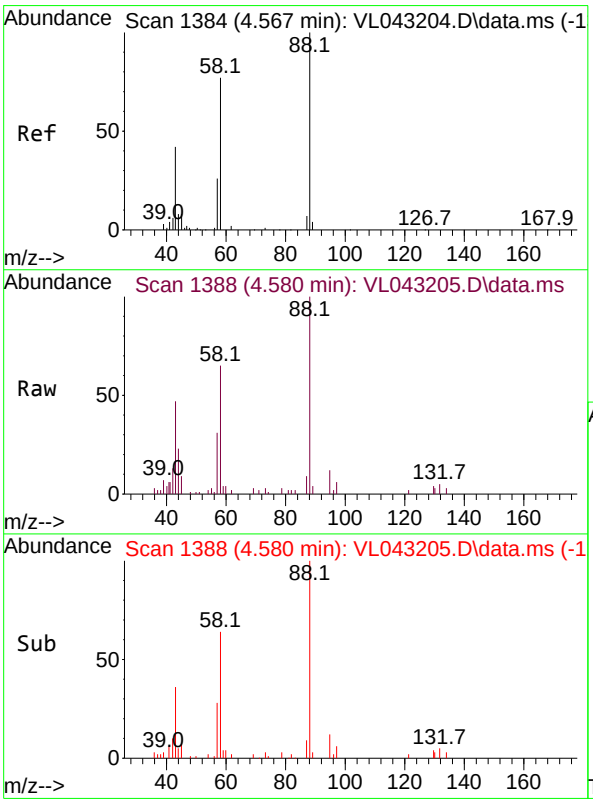
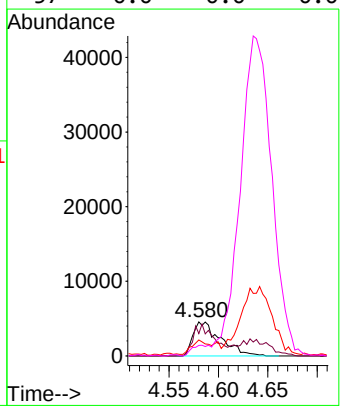
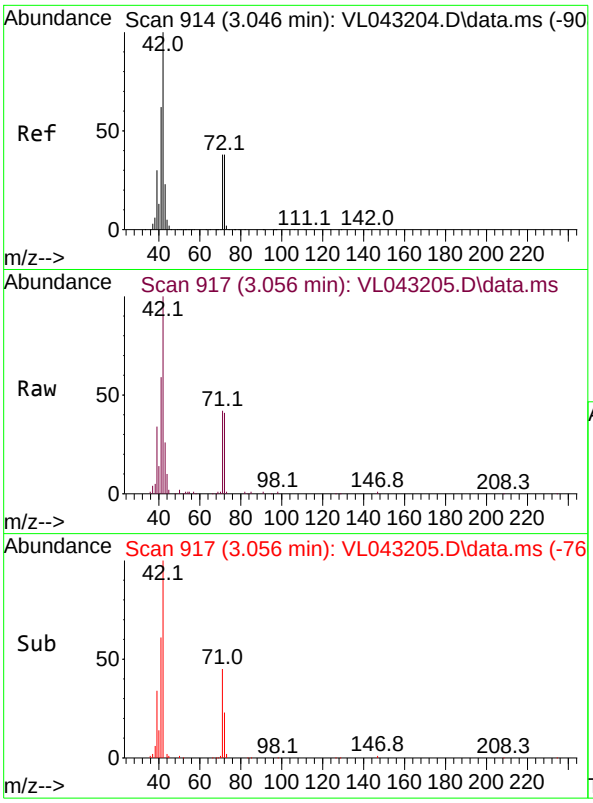


#40
1,4-Dioxane
Concen: 1.969 ppbv m
RT: 4.580 min Scan# 1388
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

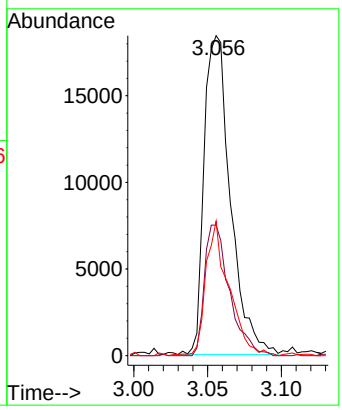




#41
Tetrahydrofuran
Concen: 2.065 ppbv
RT: 3.056 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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 :
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ClientSampleId :
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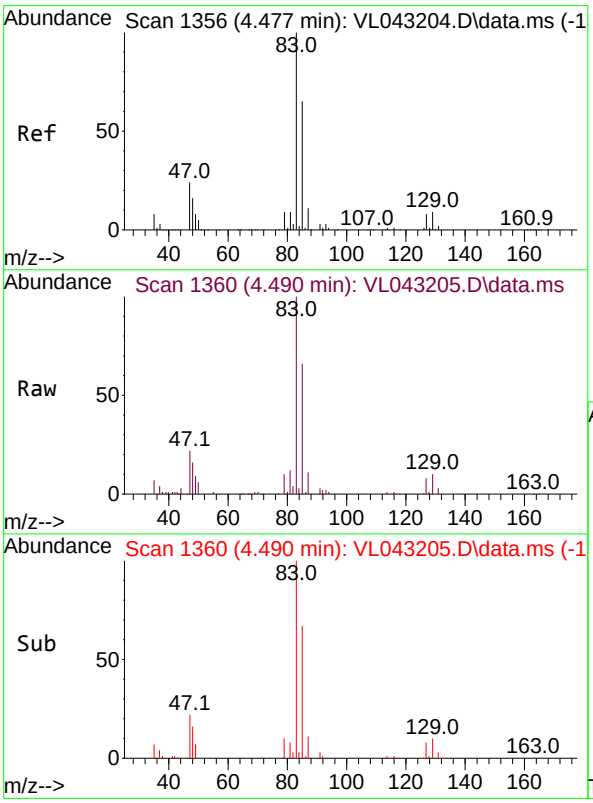
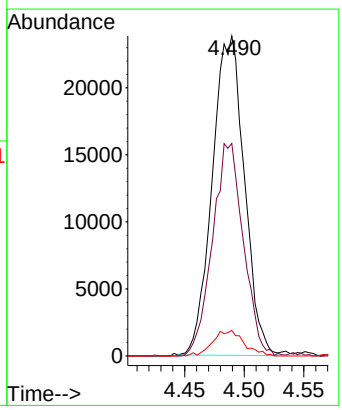
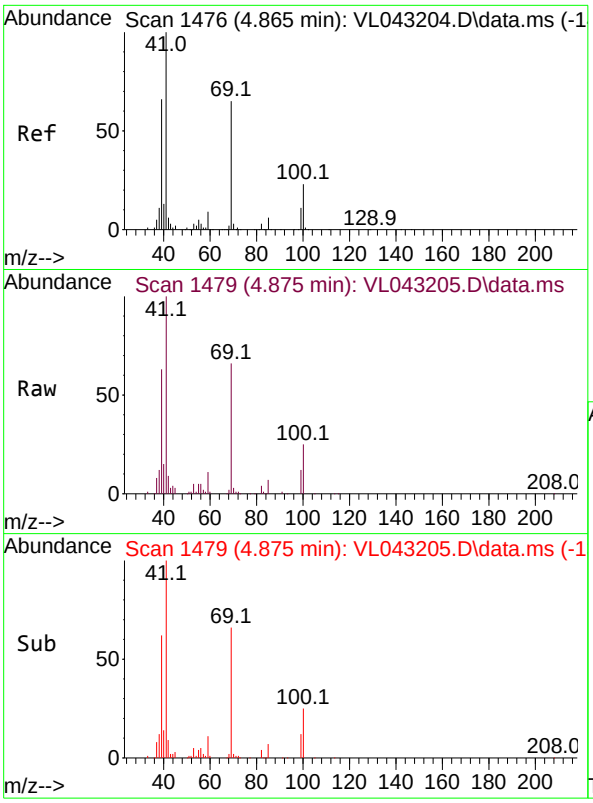


#42
Bromodichloromethane
Concen: 2.027 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

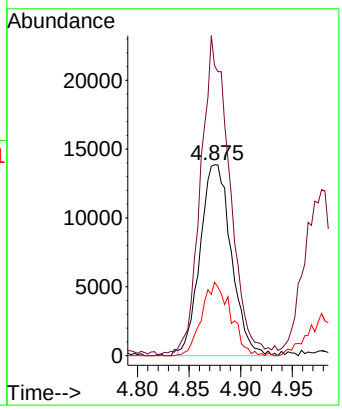




#43
Methyl Methacrylate
Concen: 2.009 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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 :
MSVOA_L
ClientSampleId :
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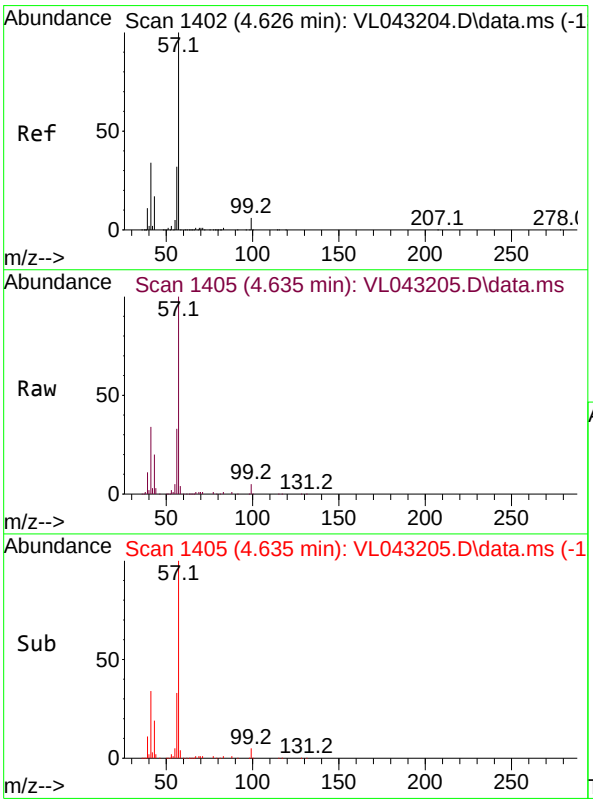
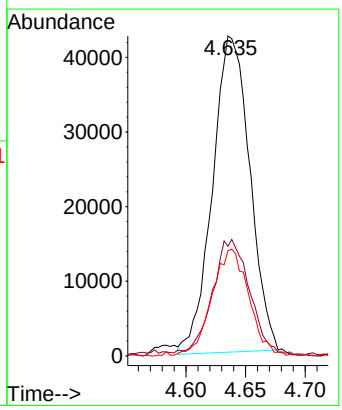
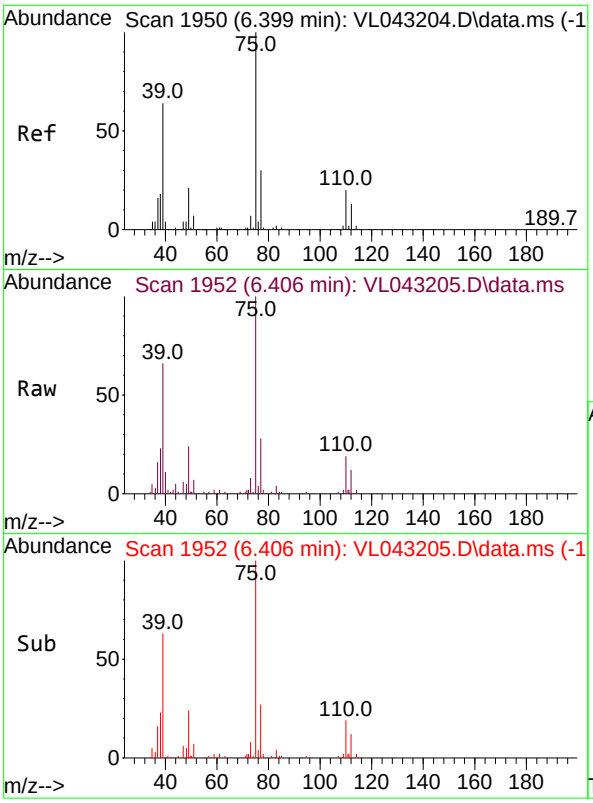


#44
2,2,4-Trimethylpentane
Concen: 1.971 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

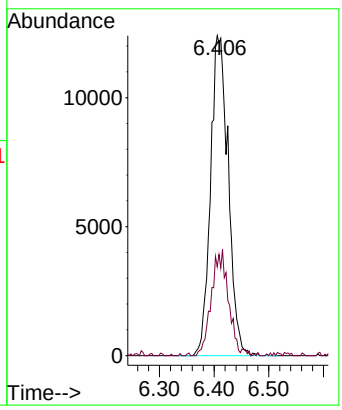




#45
t-1,3-Dichloropropene
Concen: 2.064 ppbv m
RT: 6.406 min Scan# 19
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 75 Resp: 2783

Ion	Ratio	Lower	Upper
75	100		
77	27.8	24.3	36.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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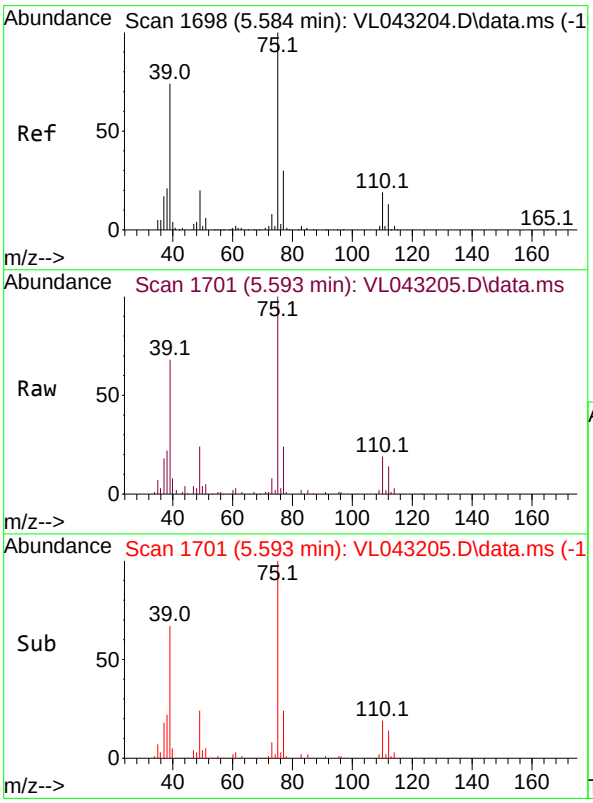
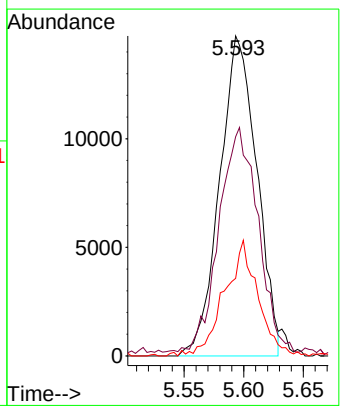
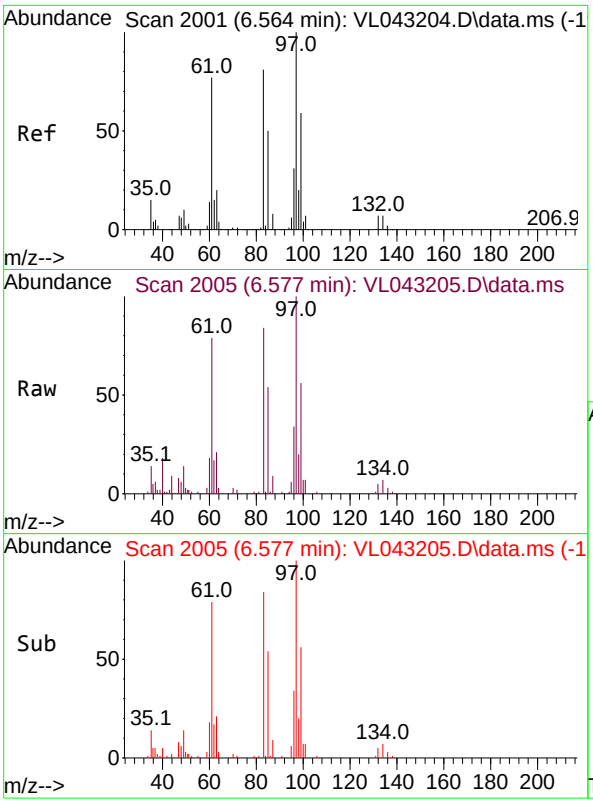


#46
cis-1,3-Dichloropropene
Concen: 2.020 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

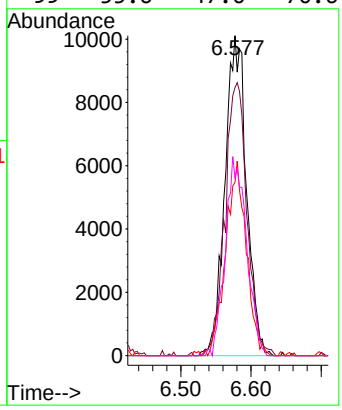




#47
1,1,2-Trichloroethane
Concen: 2.025 ppbv m
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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 :
MSVOA_L
ClientSampleId :
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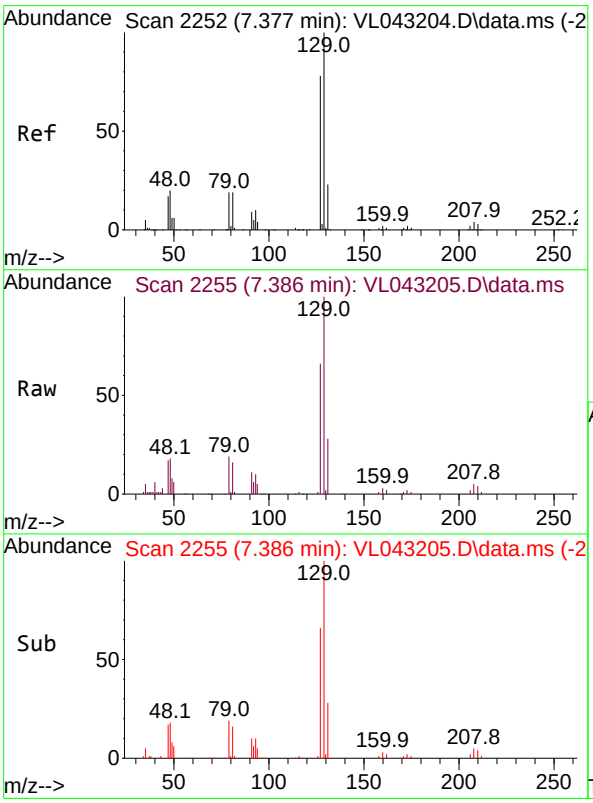
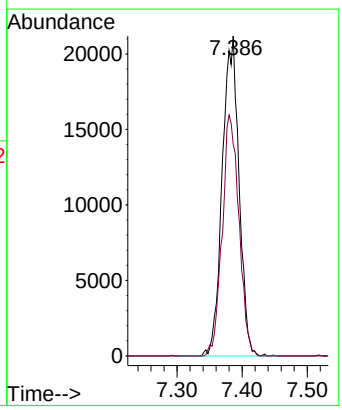
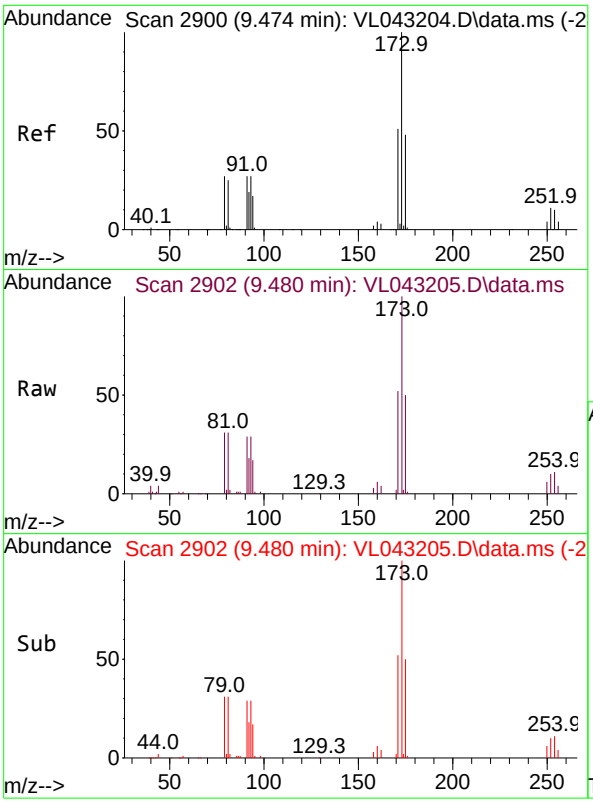


#48
Dibromochloromethane
Concen: 2.074 ppbv m
RT: 7.386 min Scan# 2255
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:129 Resp: 37758

Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.3	117.9#

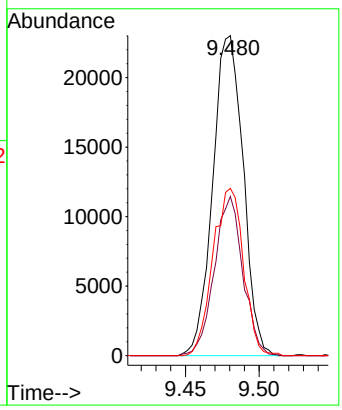




#49
Bromoform
Concen: 2.050 ppbv
RT: 9.480 min Scan# 29
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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 :
MSVOA_L
ClientSampleId :
VSTDICC002

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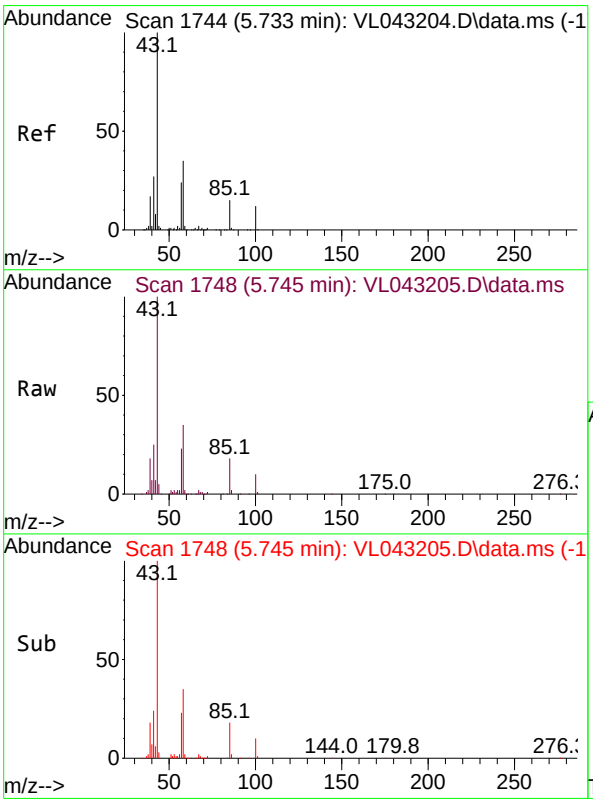
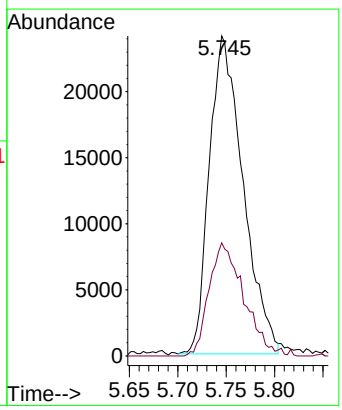
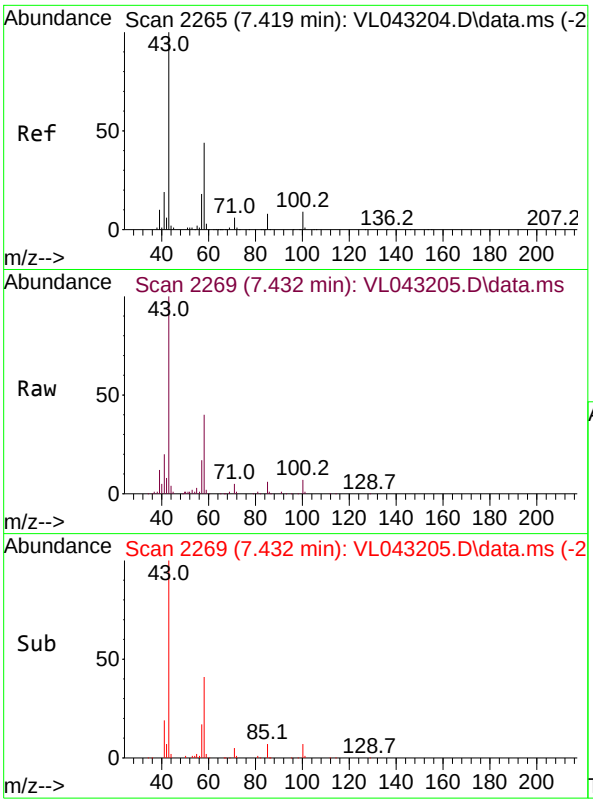


#50
4-Methyl-2-Pentanone
Concen: 2.066 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 58461

Ion	Ratio	Lower	Upper
43	100		
58	36.7	28.4	42.6

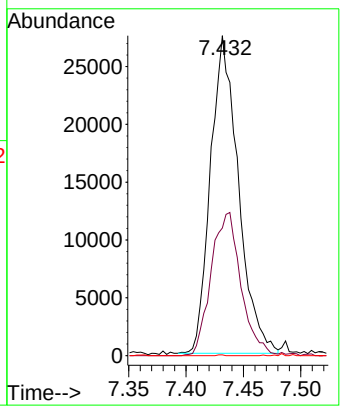




#51
2-Hexanone
Concen: 2.113 ppbv
RT: 7.432 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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 :
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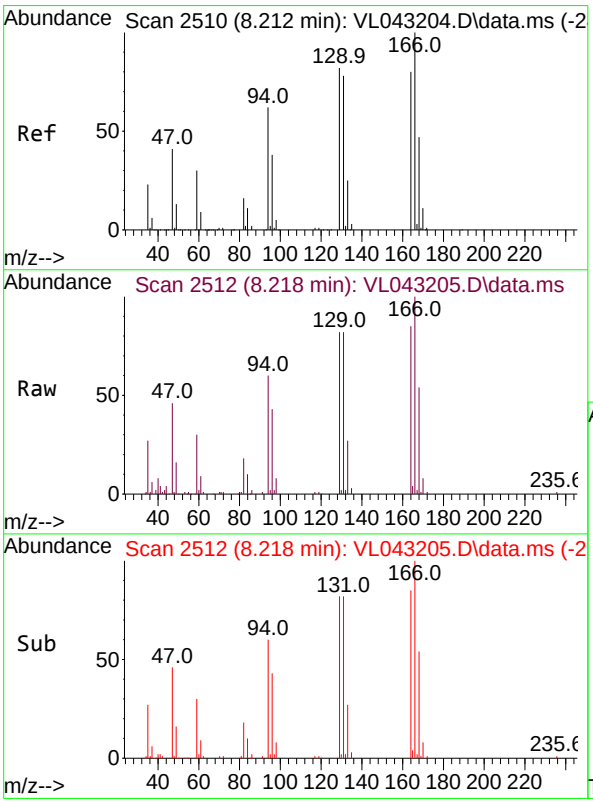
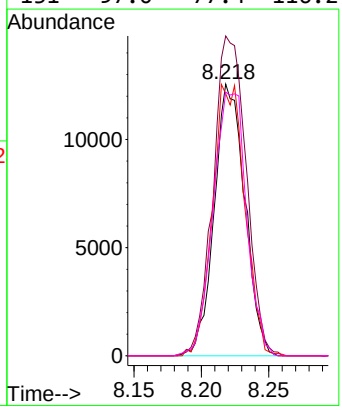
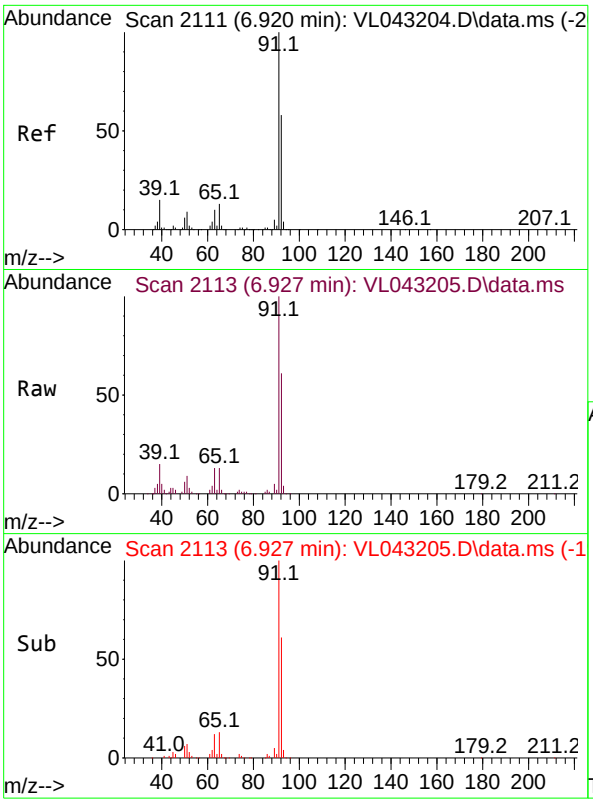


#52
Tetrachloroethene
Concen: 1.958 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

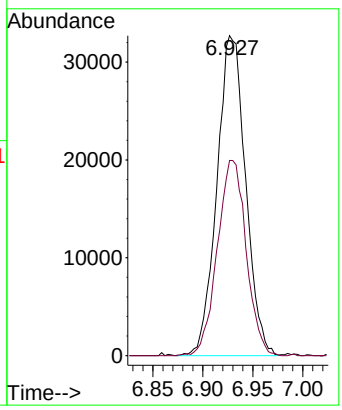




#53
Toluene
Concen: 2.008 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 6523

Ion	Ratio	Lower	Upper
91	100		
92	61.5	47.4	71.0



Instrument :
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ClientSampleId :
VSTDICC002

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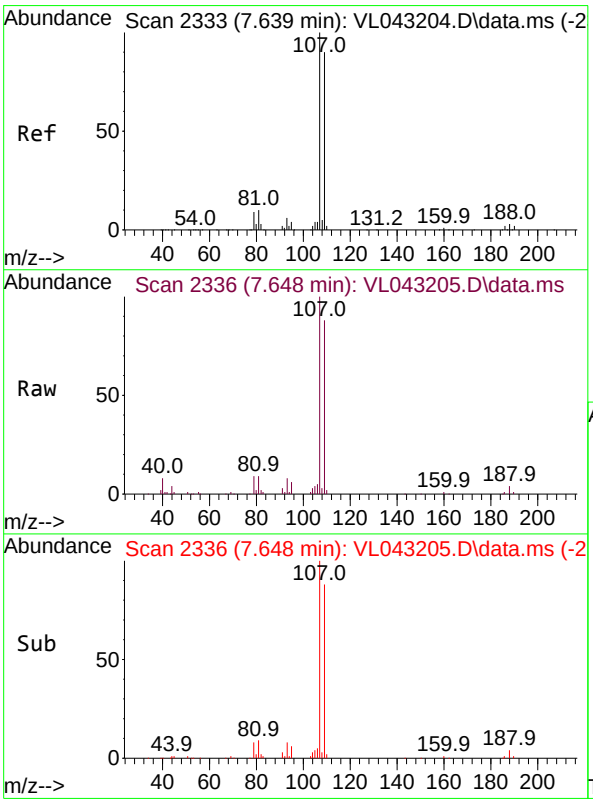
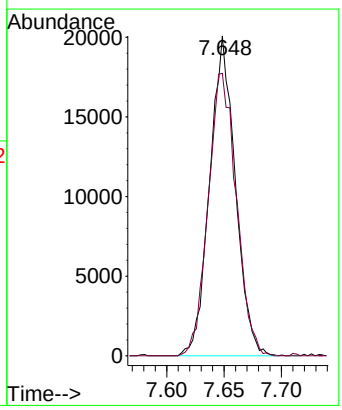
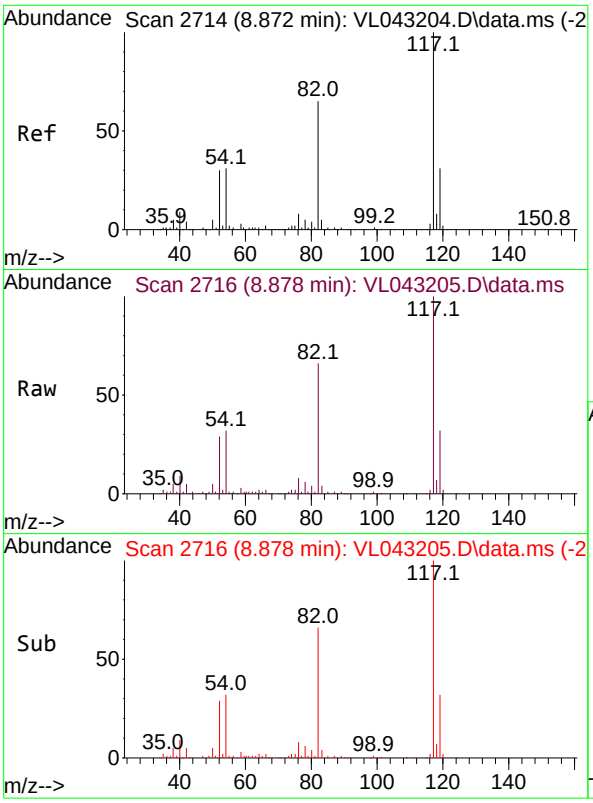


#54
1,2-Dibromoethane
Concen: 2.007 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:107 Resp: 31266

Ion	Ratio	Lower	Upper
107	100		
109	88.3	72.1	108.1

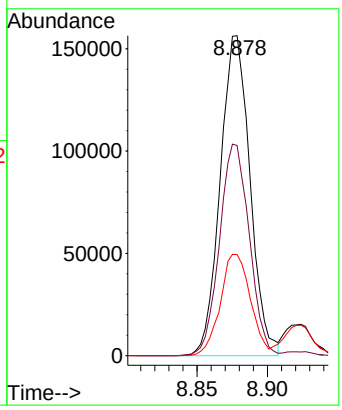




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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 :
MSVOA_L
ClientSampleId :
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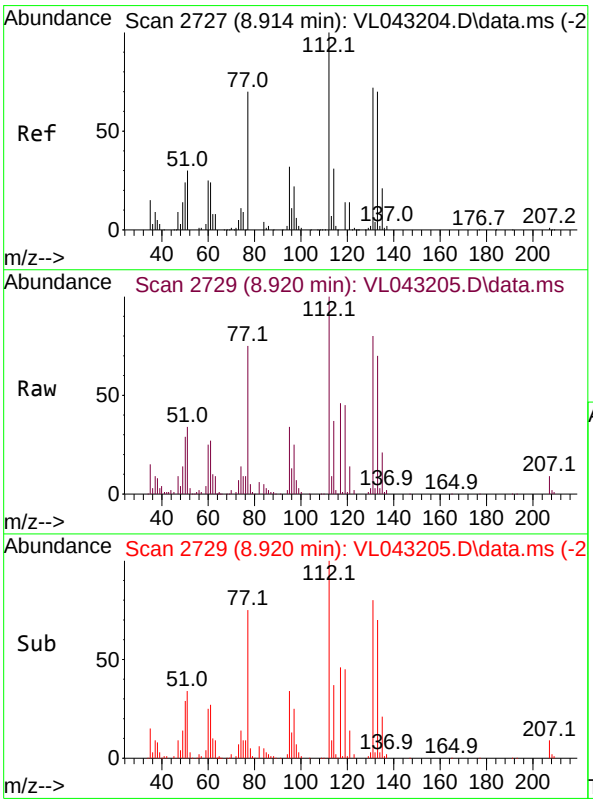
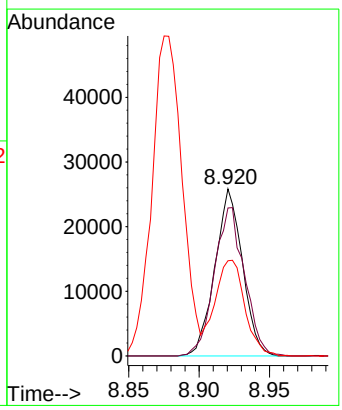
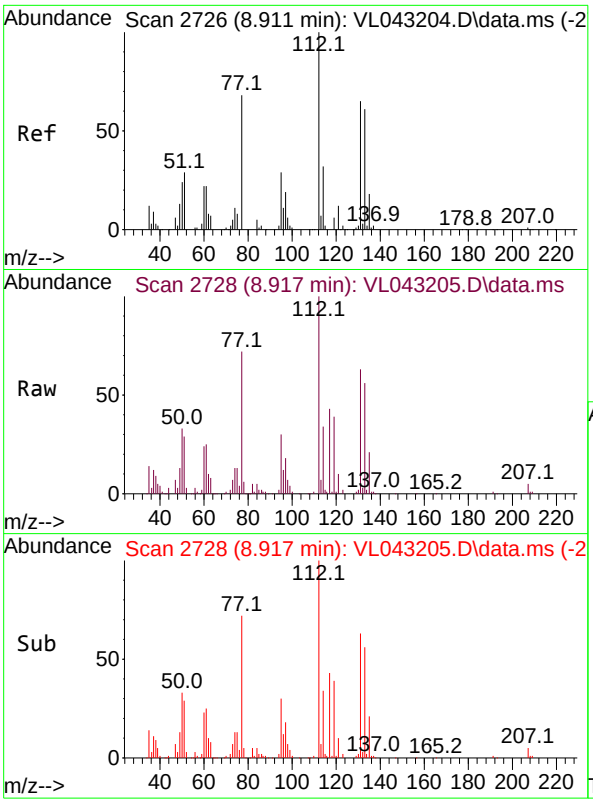


#56
1,1,1,2-Tetrachloroethane
Concen: 2.071 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

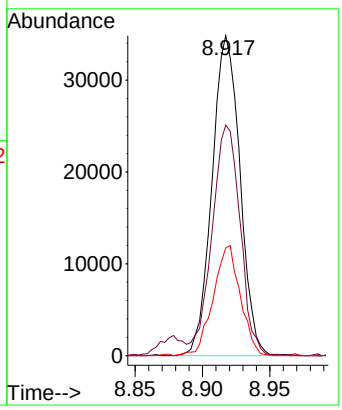




#57
Chlorobenzene
Concen: 2.121 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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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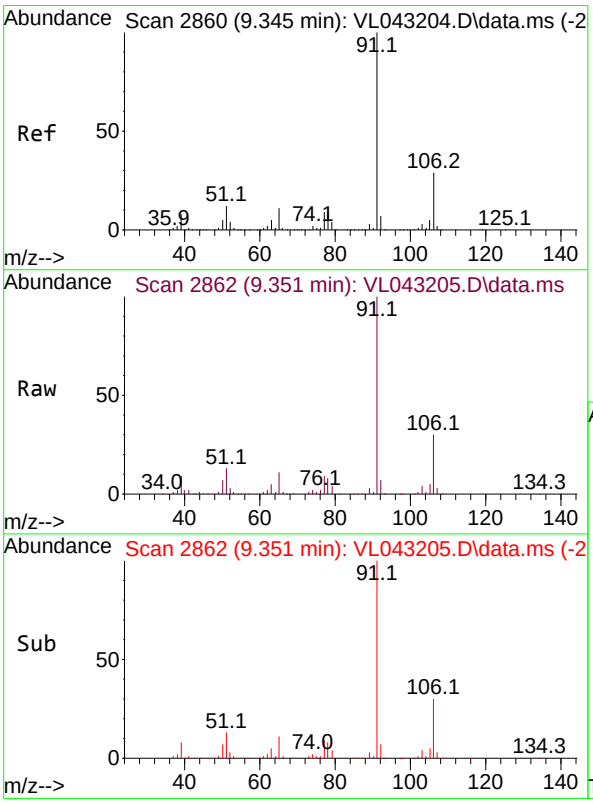
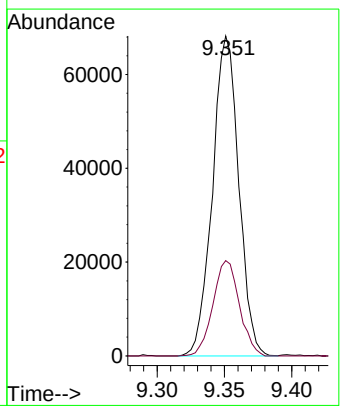
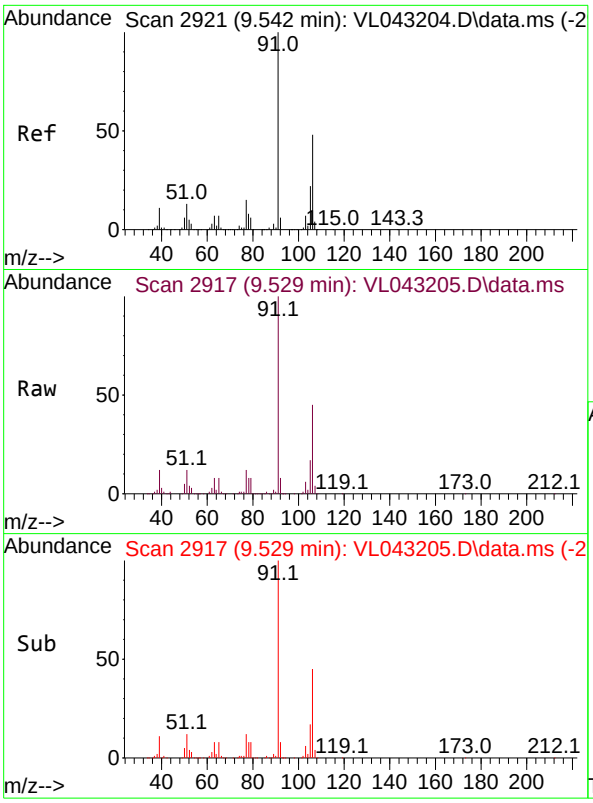


#58
Ethyl Benzene
Concen: 2.087 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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
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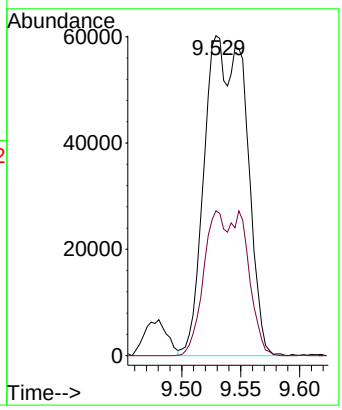
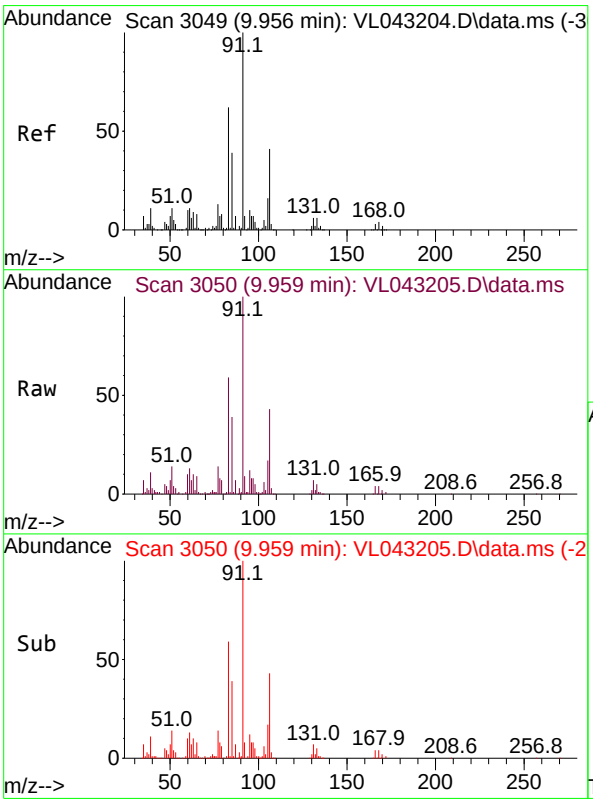
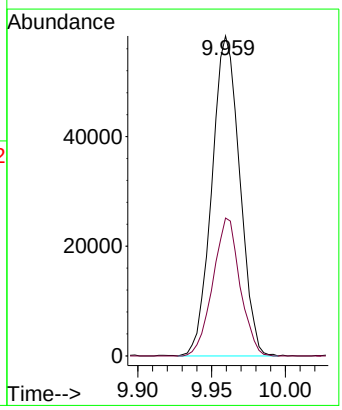


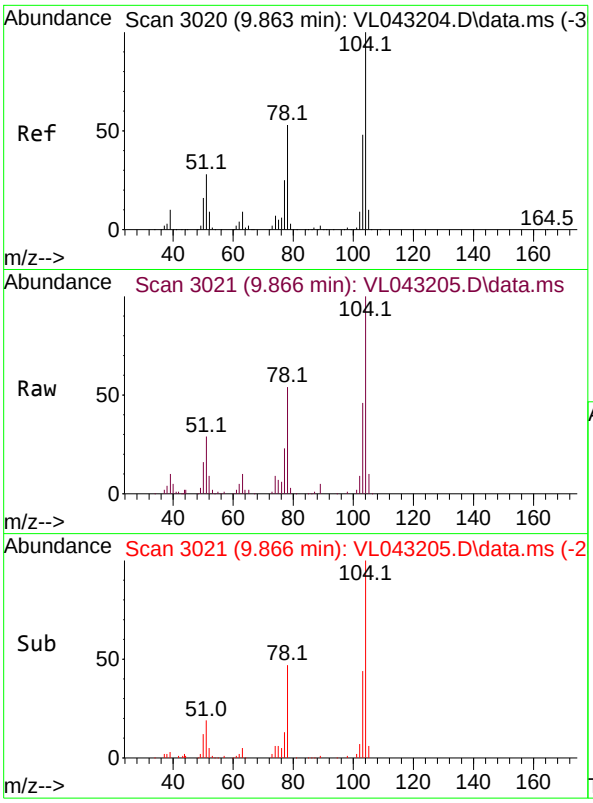


#60
o-Xylene
Concen: 2.153 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 76540

Ion	Ratio	Lower	Upper
91	100		
106	41.9	20.9	62.8

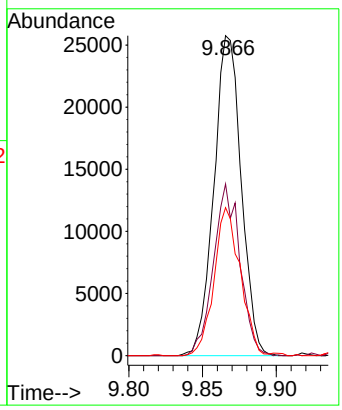




#61
Styrene
Concen: 2.133 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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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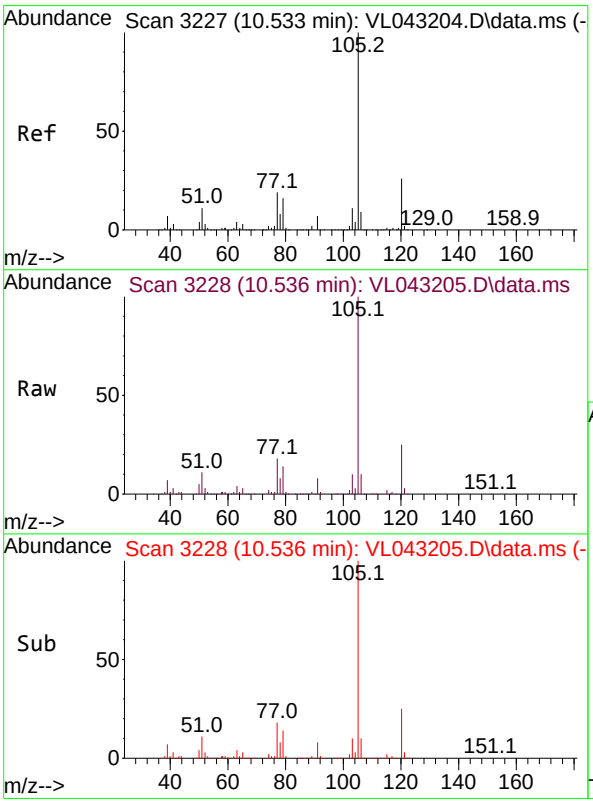
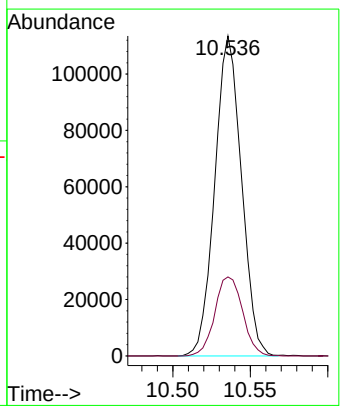
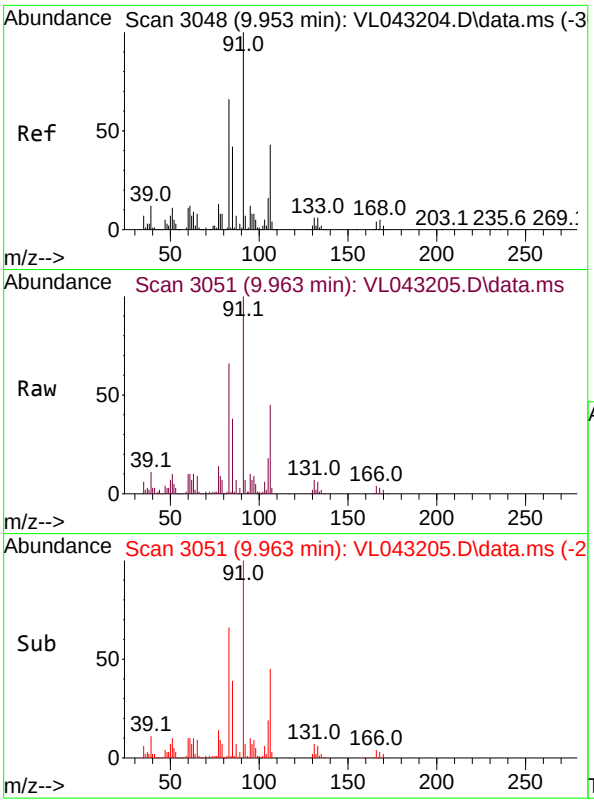


#62
Isopropylbenzene
Concen: 2.136 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:105 Resp: 135853

Ion	Ratio	Lower	Upper
105	100		
120	25.6	19.8	29.8

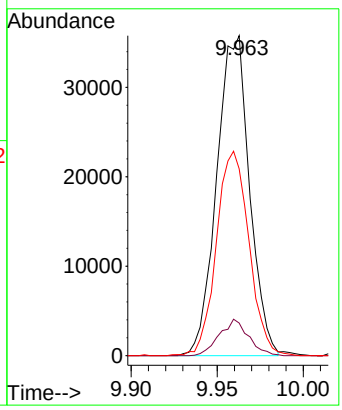




#63
1,1,2,2-Tetrachloroethane
Concen: 2.102 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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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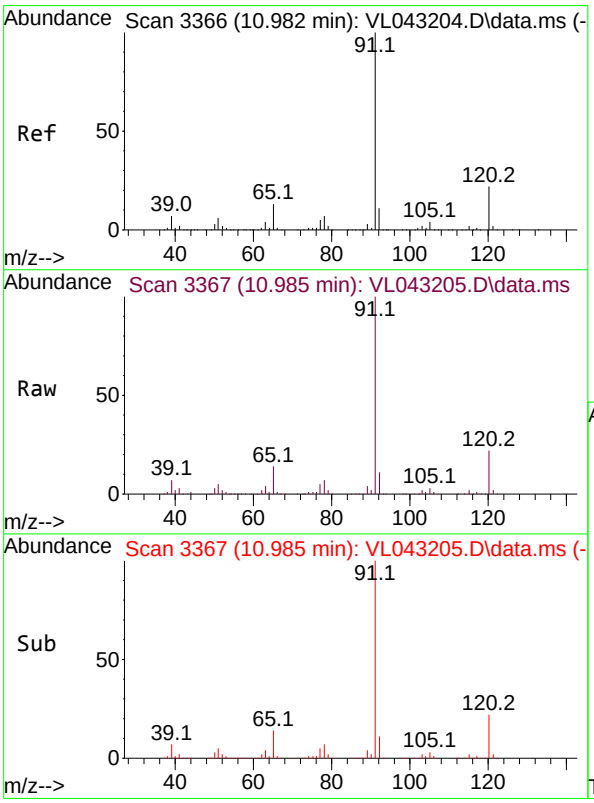
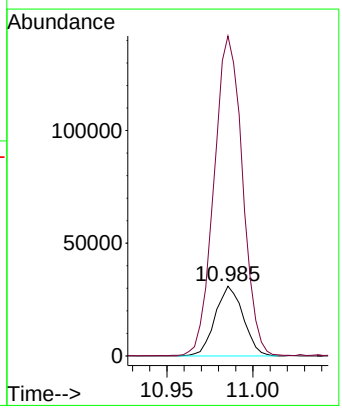
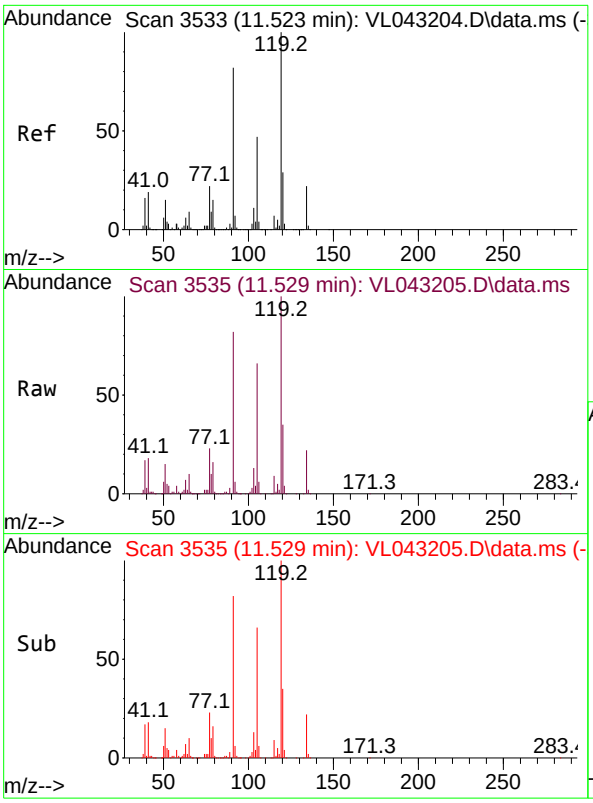


#64
n-propylbenzene
Concen: 2.136 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:120 Resp: 34915

Ion	Ratio	Lower	Upper
120	100		
91	467.6	377.1	565.7

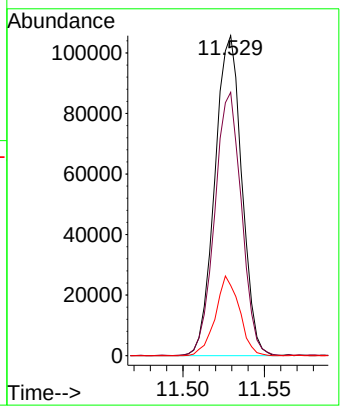




#65
tert-Butylbenzene
Concen: 2.149 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

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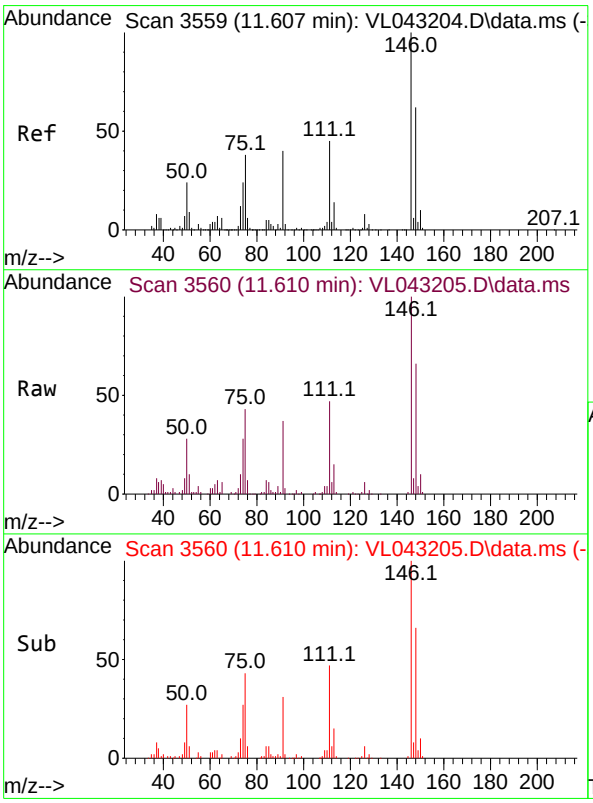
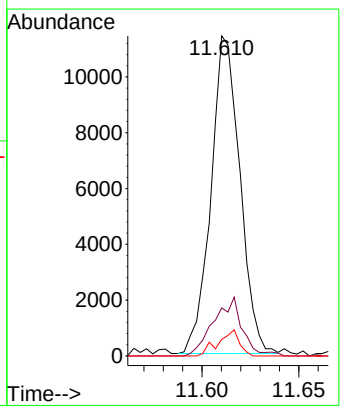
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

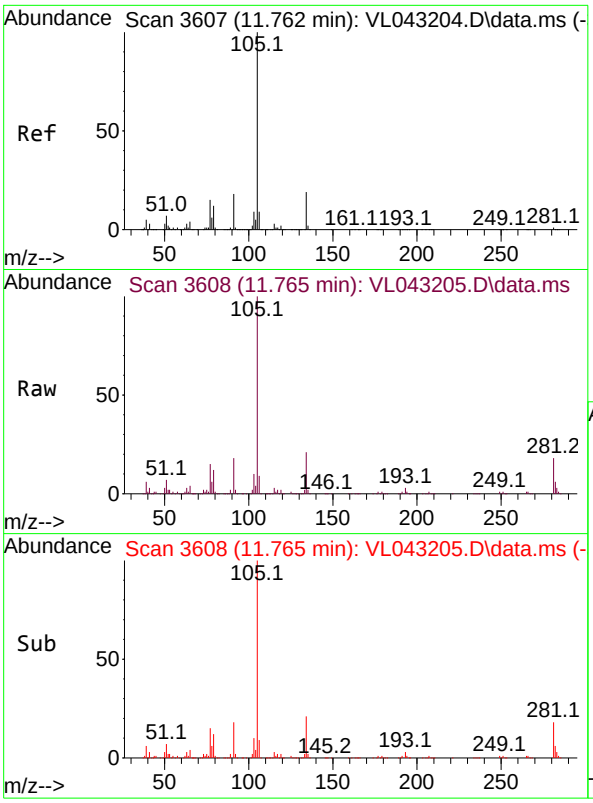


#66
Benzyl Chloride
Concen: 2.059 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

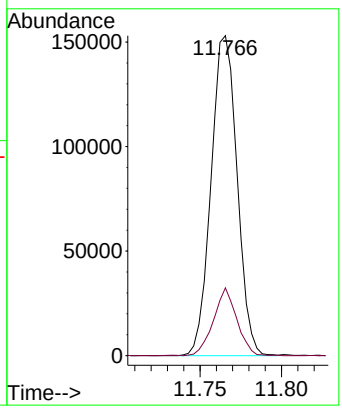




#67
sec-Butylbenzene
Concen: 2.151 ppbv
RT: 11.765 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:105 Resp: 17052

Ion	Ratio	Lower	Upper
105	100		
134	18.9	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
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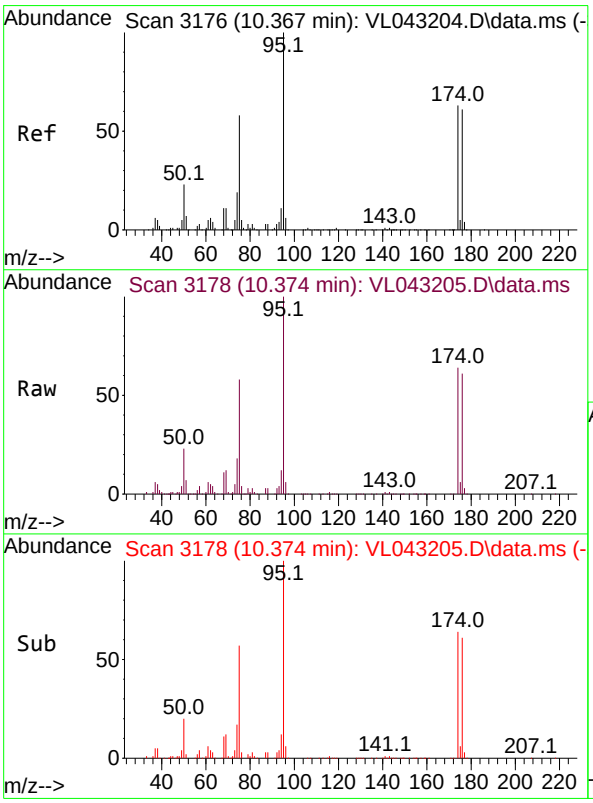
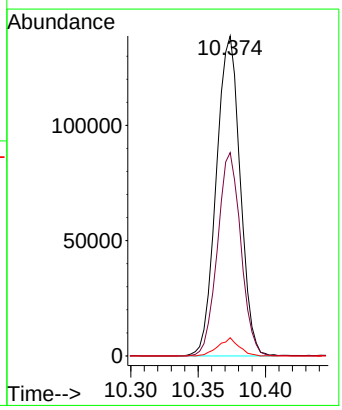
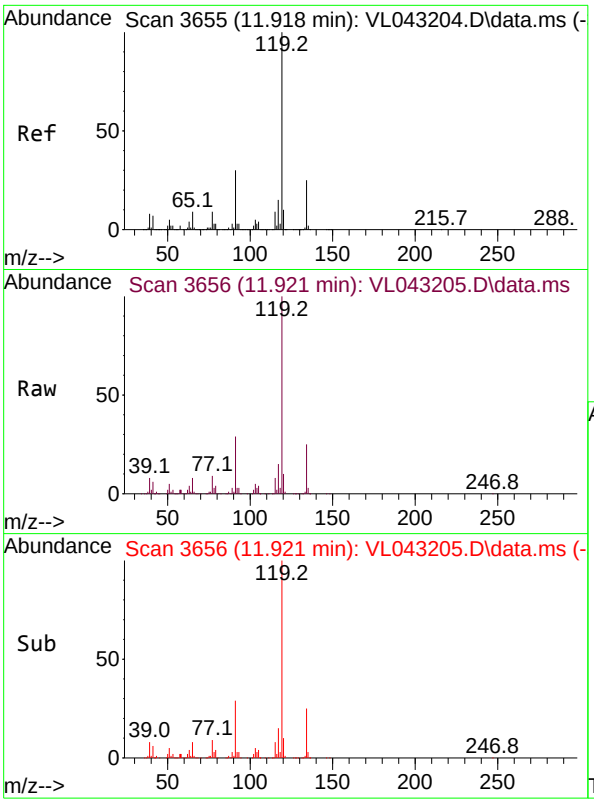


#68
1-Bromo-4-Fluorobenzene
Concen: 10.115 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

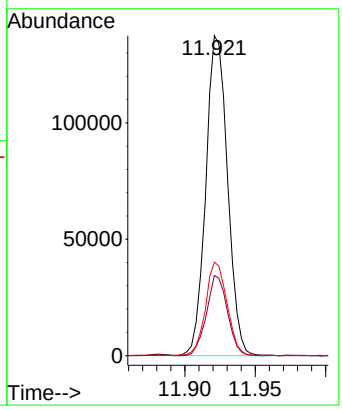




#69
p-Isopropyltoluene
Concen: 2.195 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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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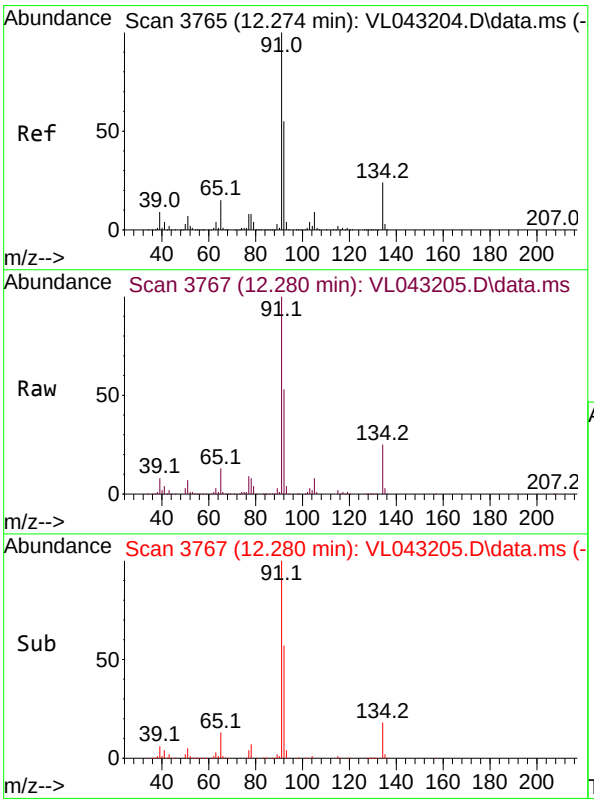
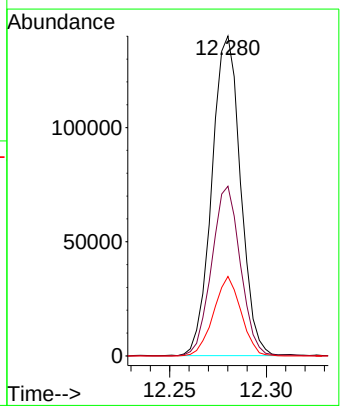
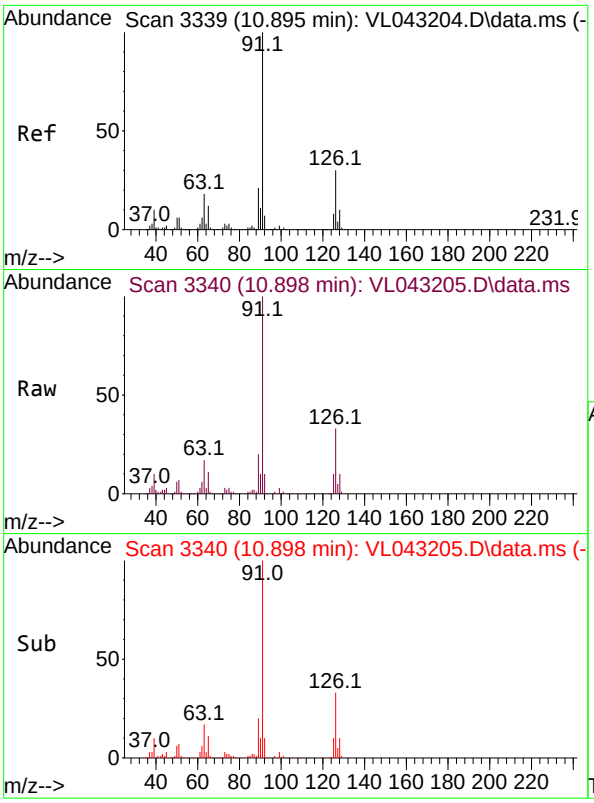


#70
n-Butylbenzene
Concen: 2.212 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

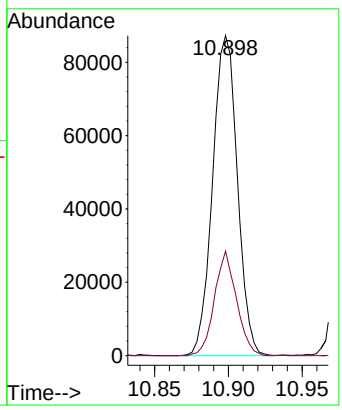




#71
2-Chlorotoluene
Concen: 2.085 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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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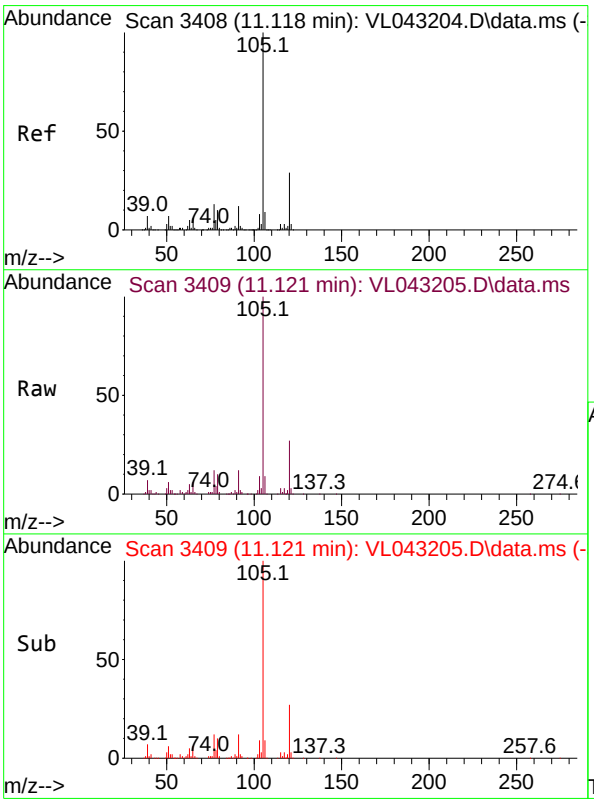
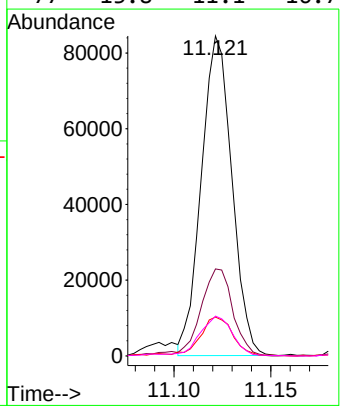
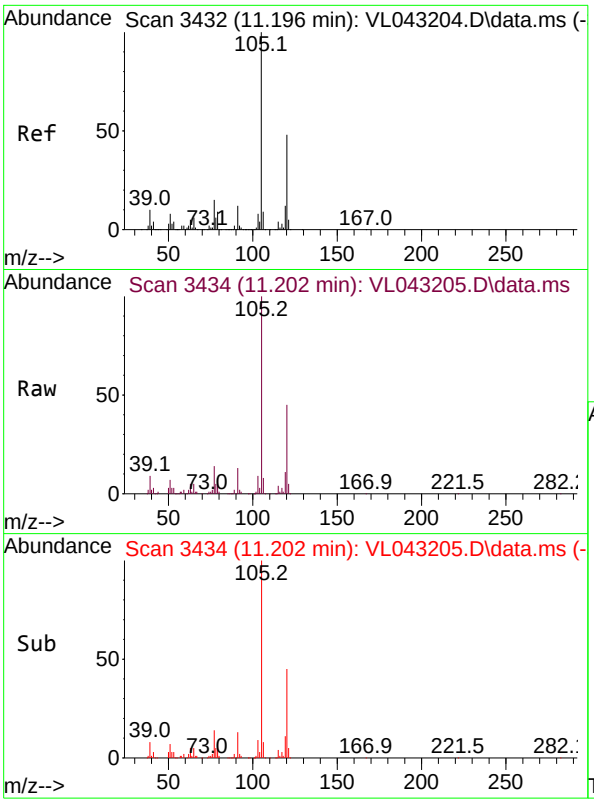


#72
4-Ethyltoluene
Concen: 2.140 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

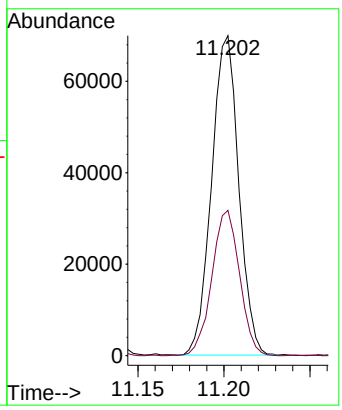




#73
1,3,5-Trimethylbenzene
Concen: 2.110 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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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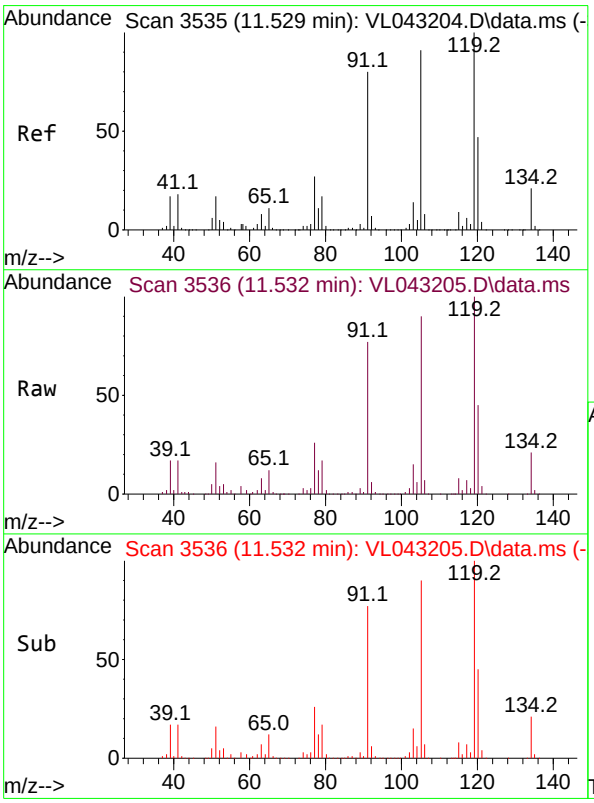
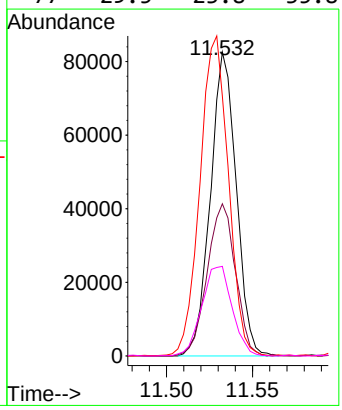
Supervised By :Mahesh Dadoda 11/19/2025

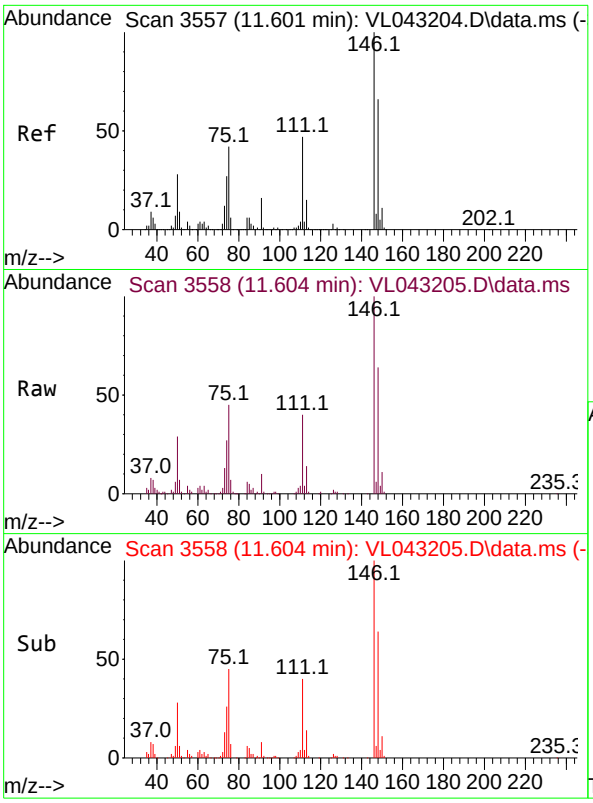


#74
1,2,4-Trimethylbenzene
Concen: 2.176 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

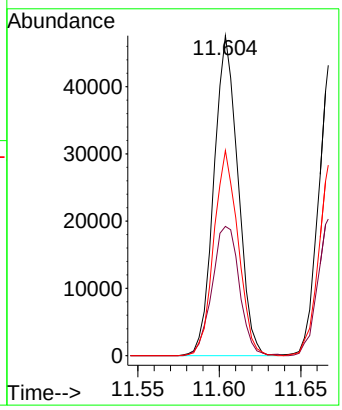




#75
1,3-Dichlorobenzene
Concen: 2.116 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

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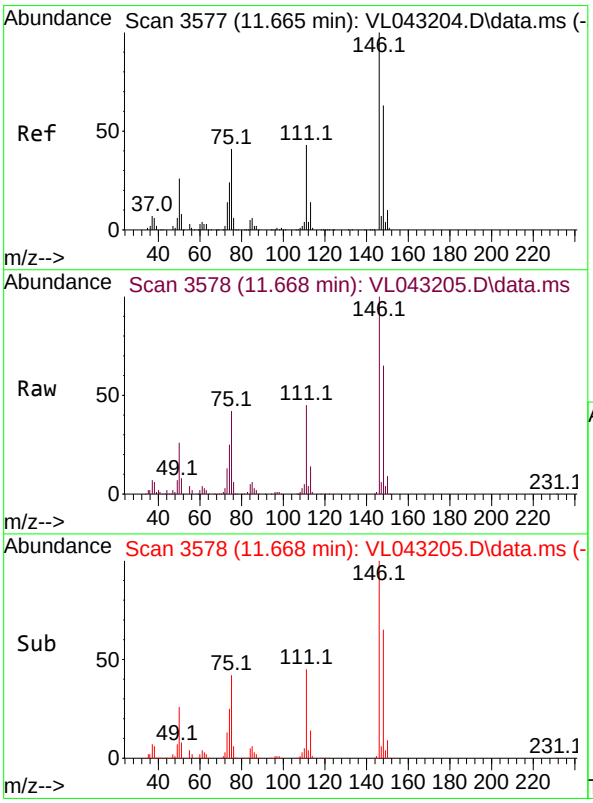
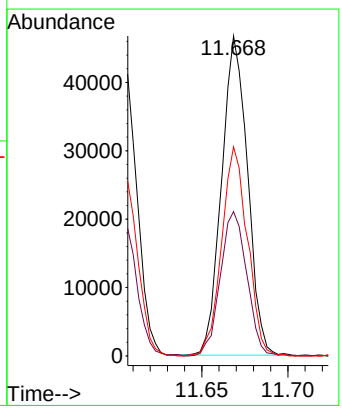
Supervised By :Mahesh Dadoda 11/19/2025

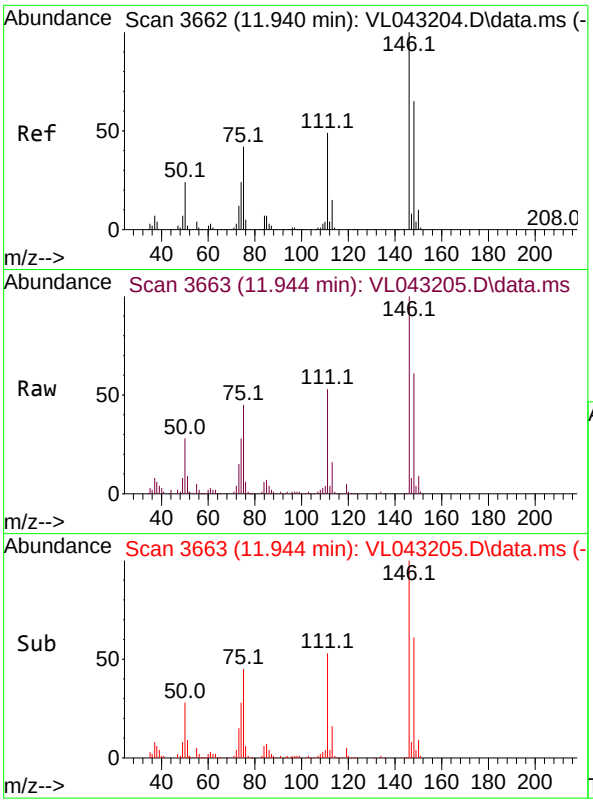


#76
1,4-Dichlorobenzene
Concen: 2.112 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

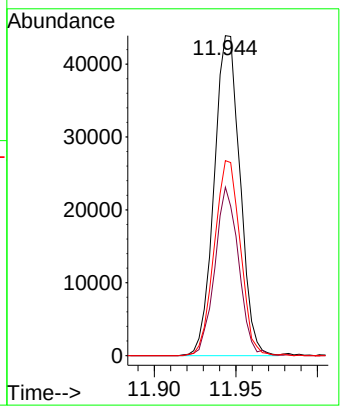




#77
1,2-Dichlorobenzene
Concen: 2.177 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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
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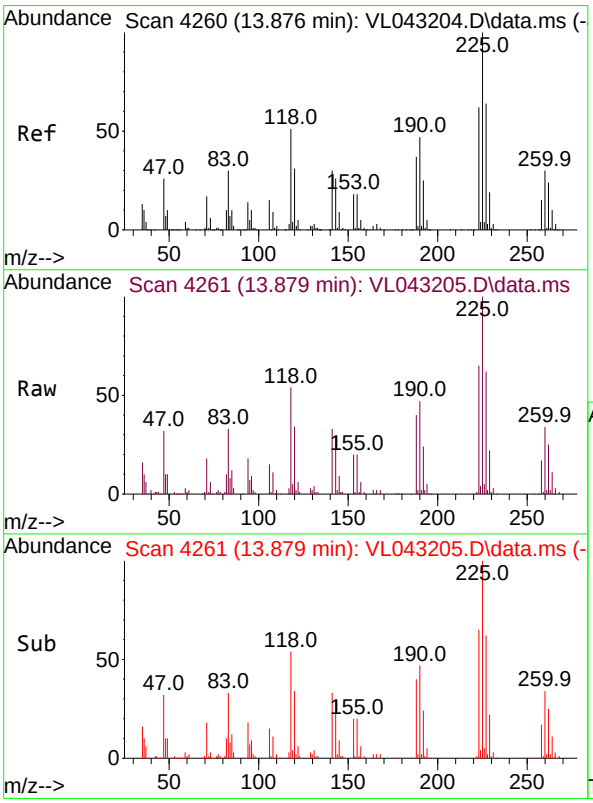
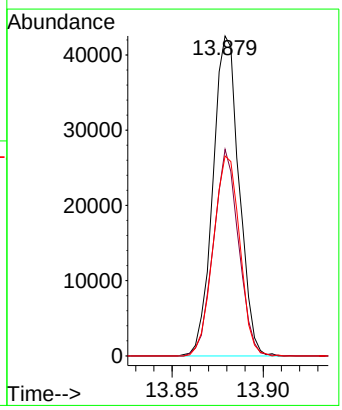
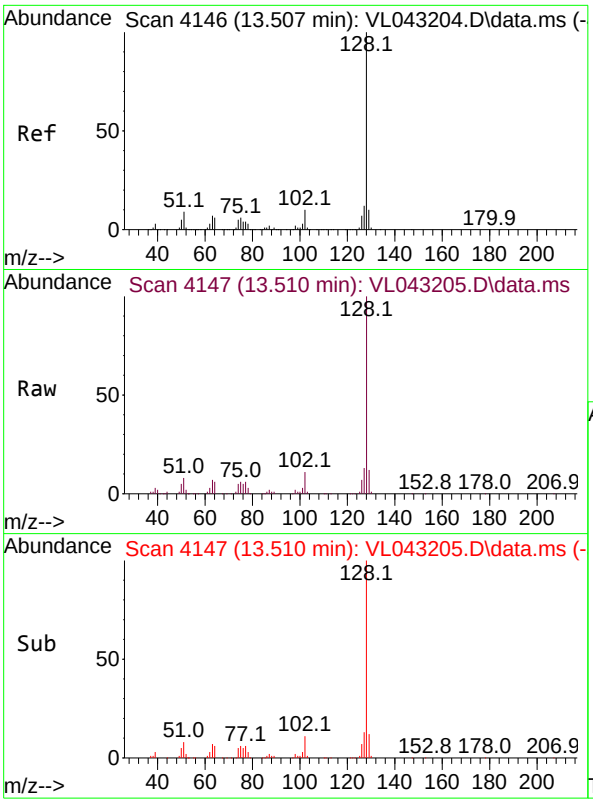


#78
Hexachloro-1,3-Butadiene
Concen: 2.287 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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
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Reviewed By :Semsettin Yesilyurt 11/19/2025
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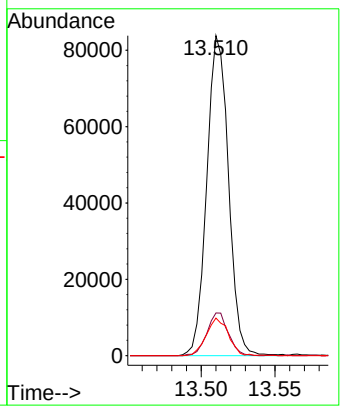
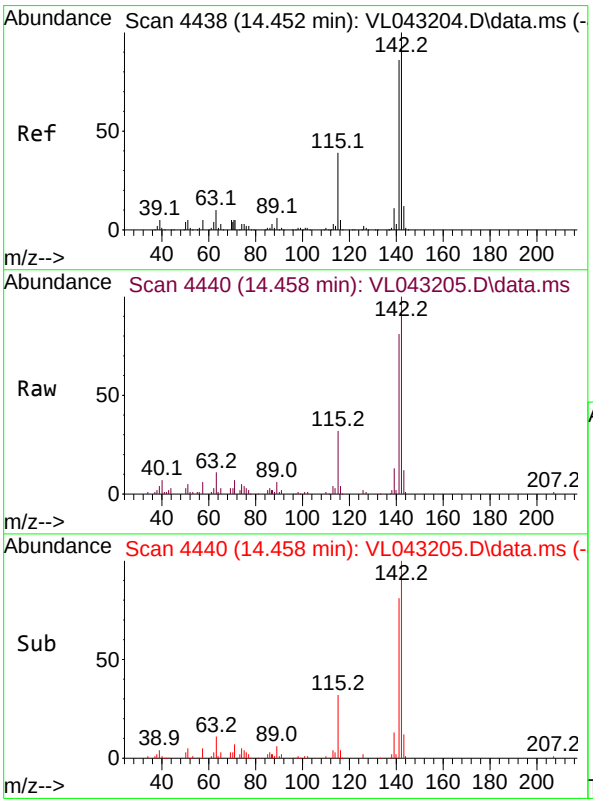
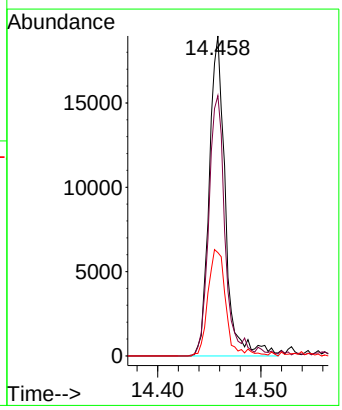


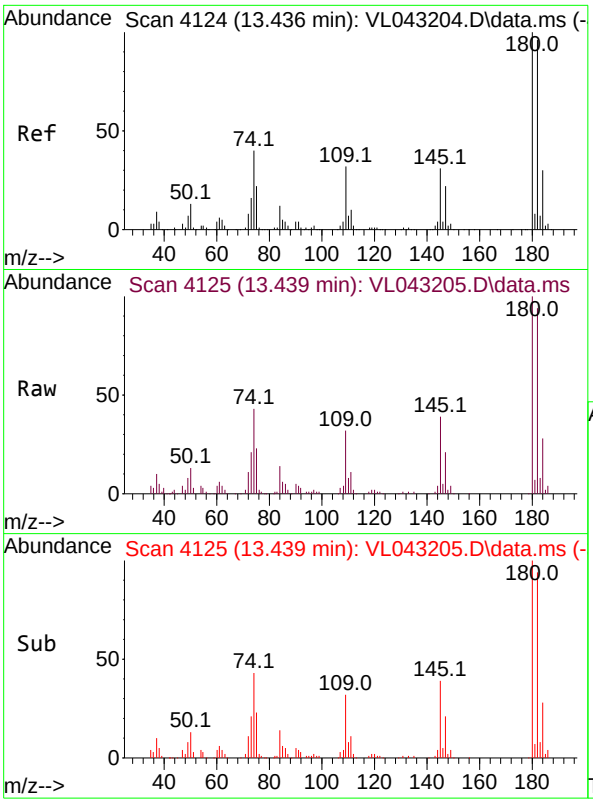


#80
Naphthalene,2-methyl-
Concen: 2.237 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

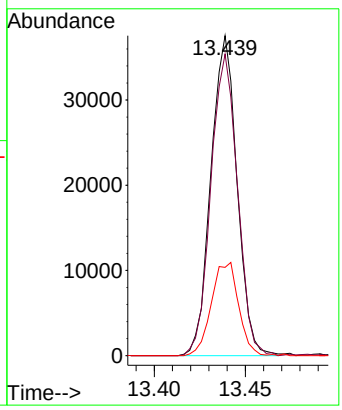




#81
1,2,4-Trichlorobenzene
Concen: 2.382 ppbv
RT: 13.439 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

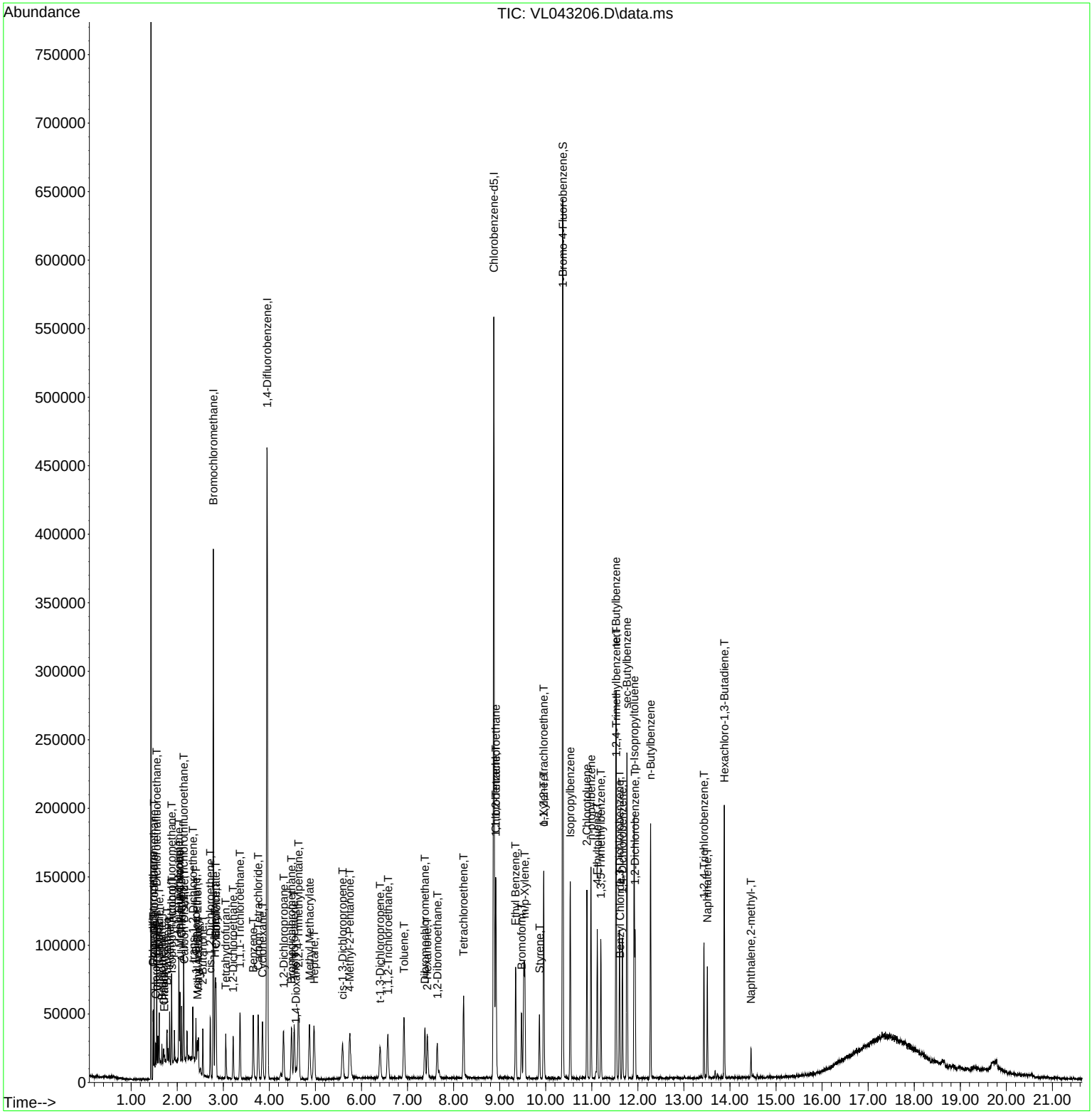
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043206.D
Acq On : 18 Nov 2025 11:10
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

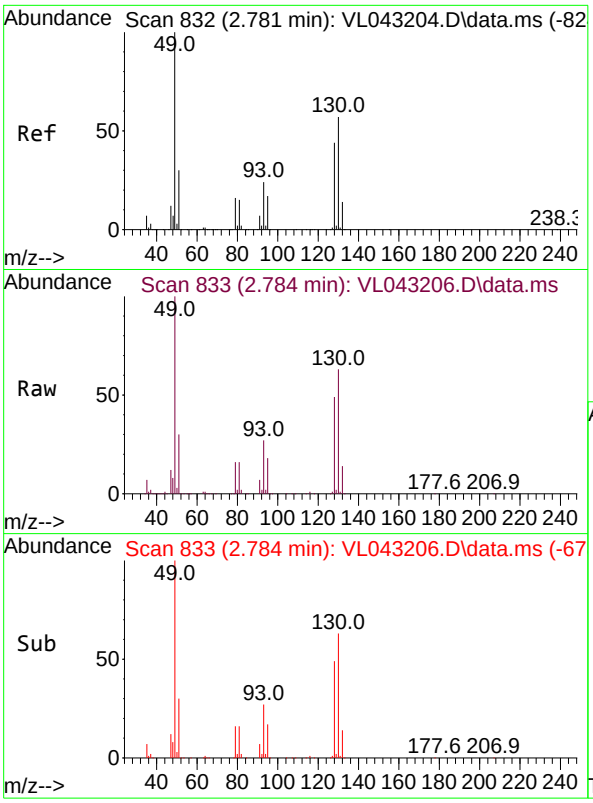
Quant Time: Nov 19 00:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

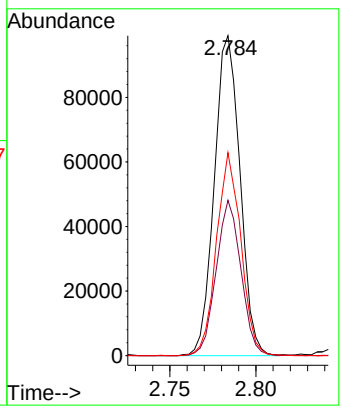




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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
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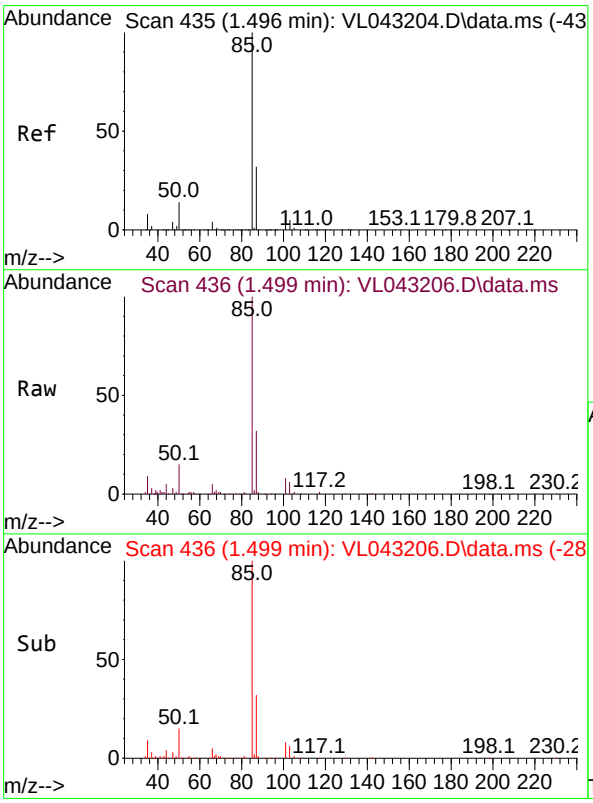
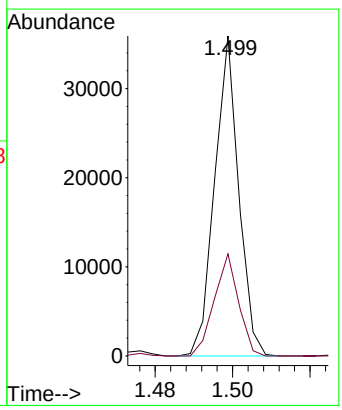
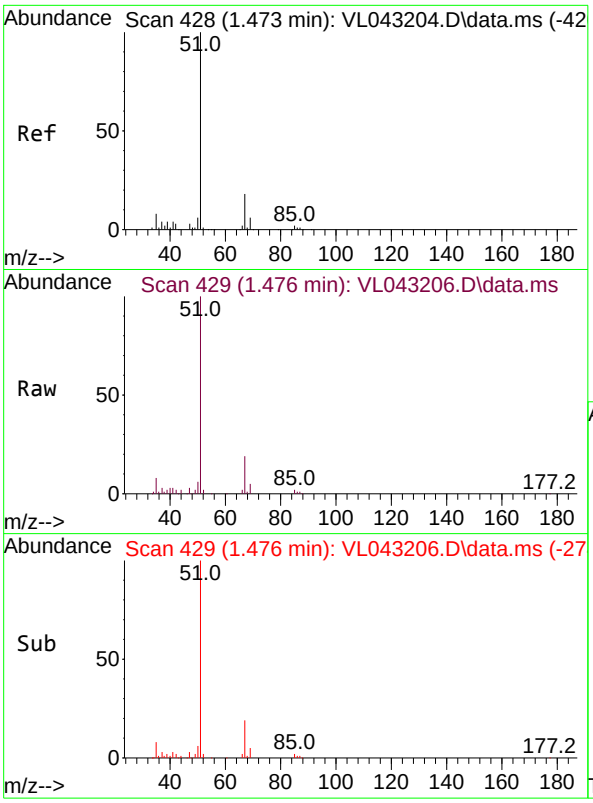


#2
Dichlorodifluoromethane
Concen: 1.067 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 85 Resp: 15474

Ion	Ratio	Lower	Upper
85	100		
87	31.9	25.4	38.2

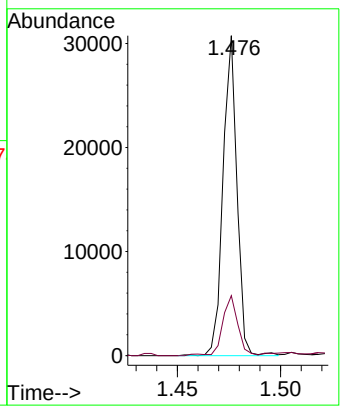




#3
Chlorodifluoromethane
Concen: 1.013 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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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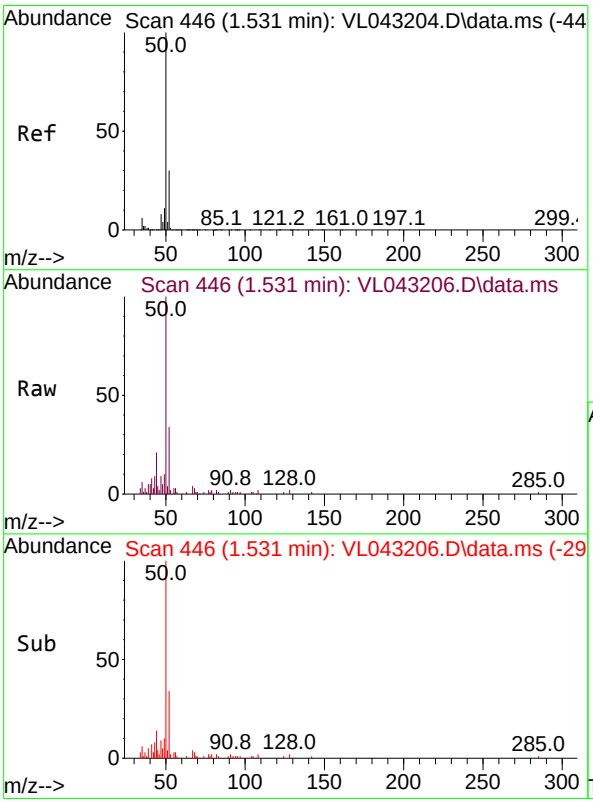
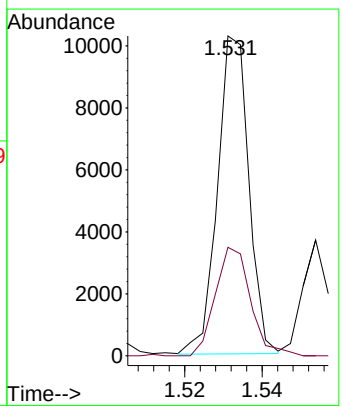
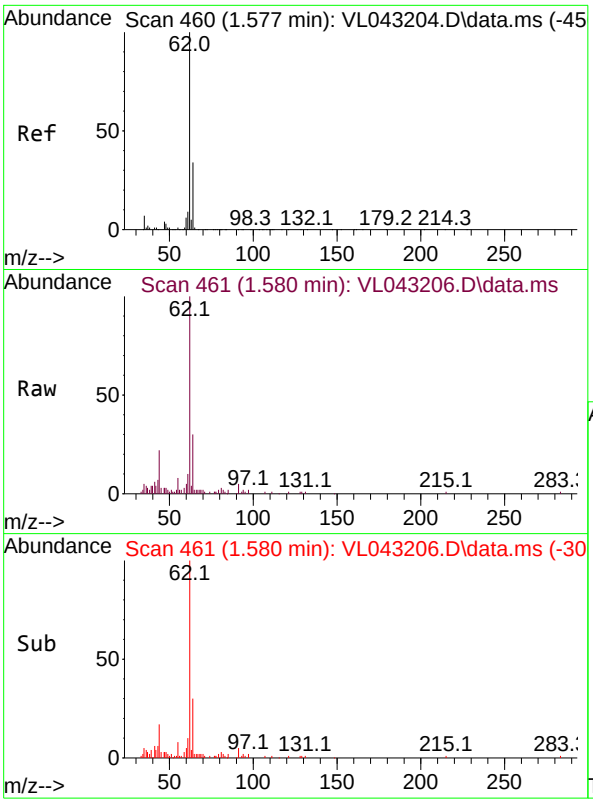


#4
Chloromethane
Concen: 1.061 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 50 Resp: 5751

Ion	Ratio	Lower	Upper
50	100		
52	34.2	24.1	36.1

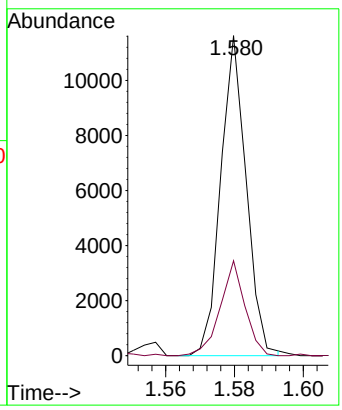




#5
Vinyl Chloride
Concen: 1.007 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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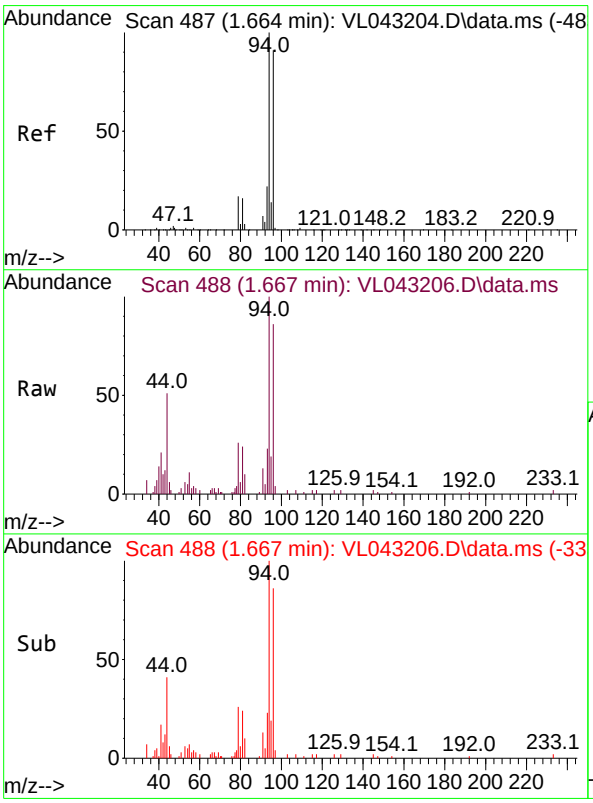
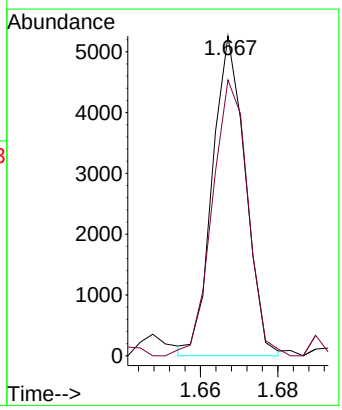
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

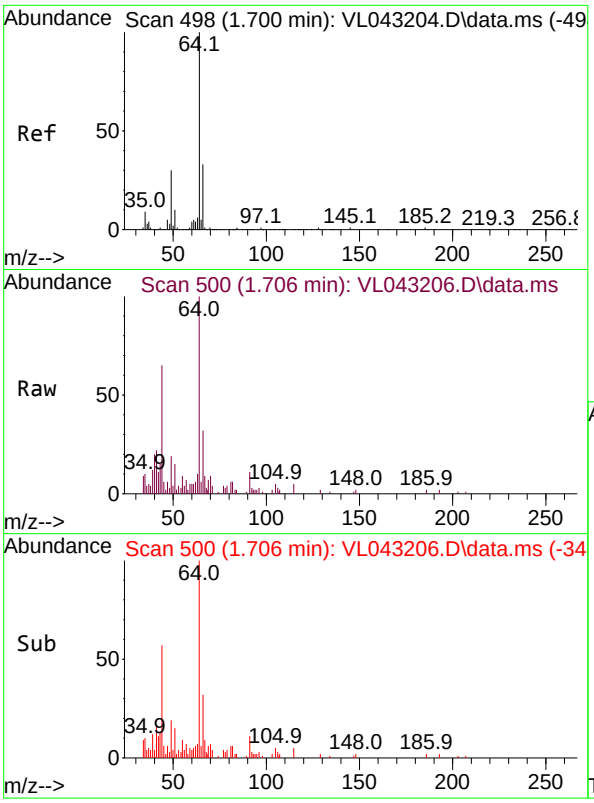


#6
Bromomethane
Concen: 1.080 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 94 Resp: 3104

Ion	Ratio	Lower	Upper
94	100		
96	85.7	72.9	109.3

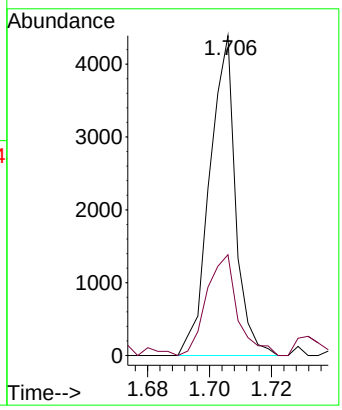




#7
Chloroethane
Concen: 1.104 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 64 Resp: 255

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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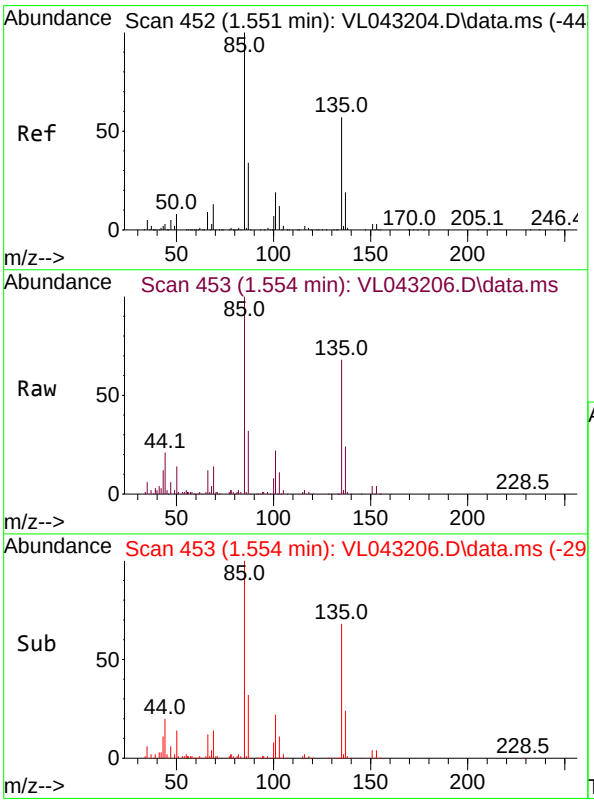
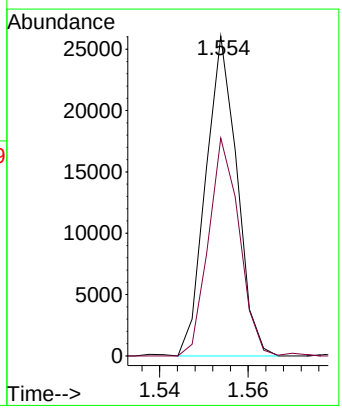
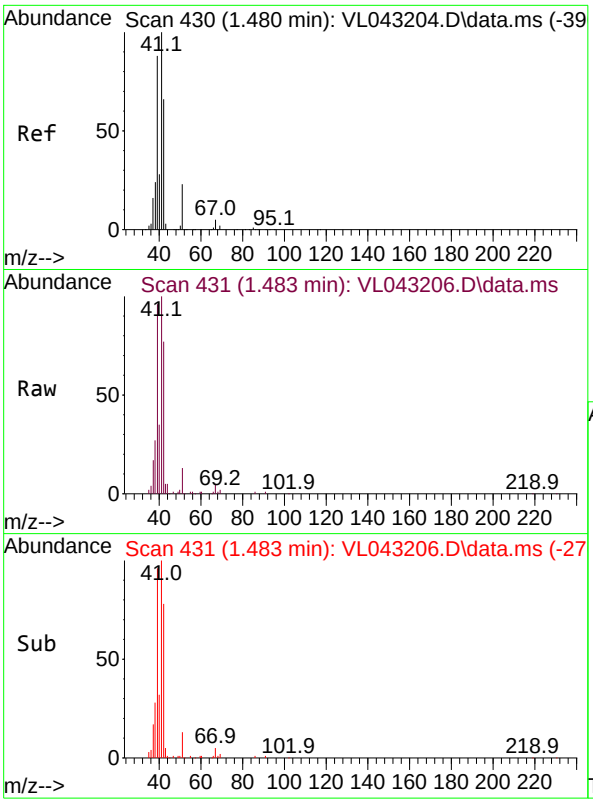


#8
Dichlorotetrafluoroethane
Concen: 1.058 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
VSTDICC001

Manual Integrations
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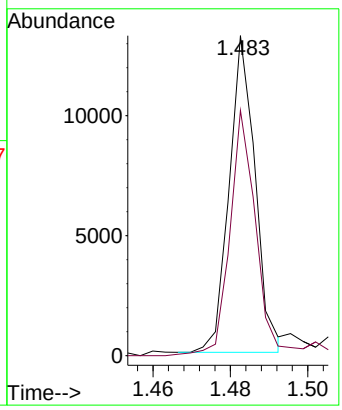
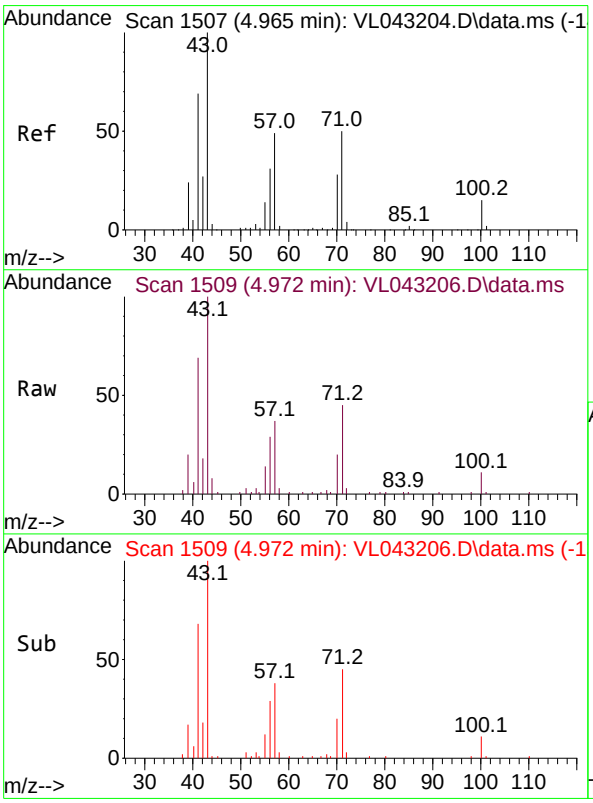
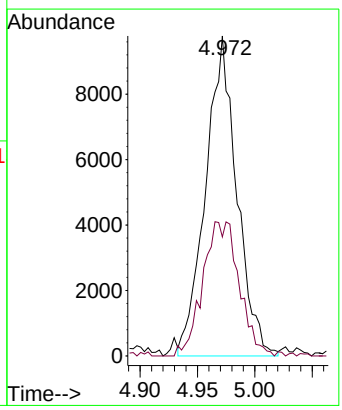


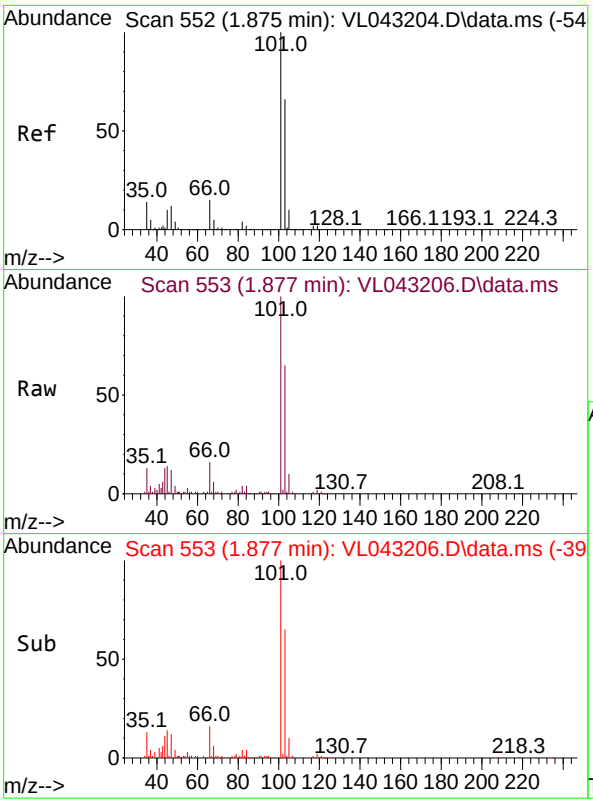


#10
Heptane
Concen: 1.022 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 18544

Ion	Ratio	Lower	Upper
43	100		
57	49.3	39.7	59.5

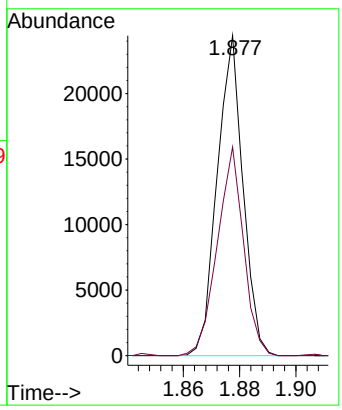




#11
Trichlorofluoromethane
Concen: 1.108 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:101 Resp: 1557

Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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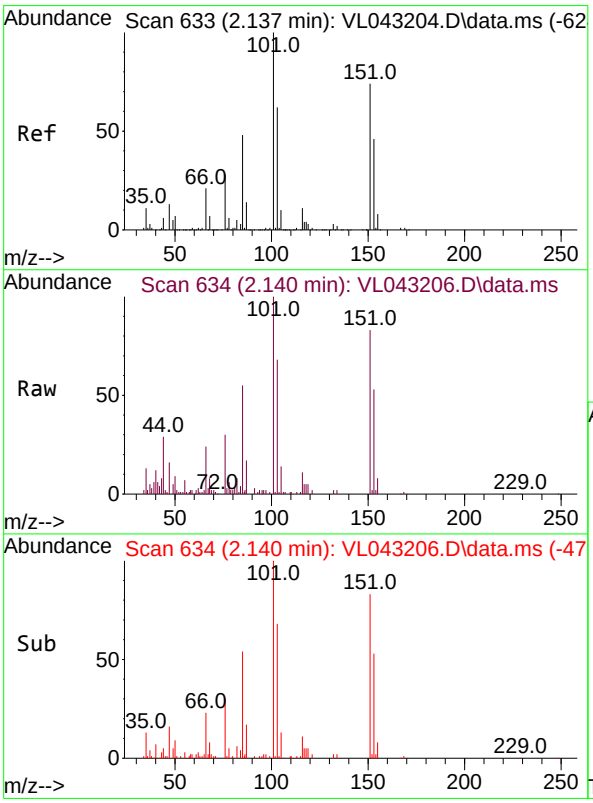
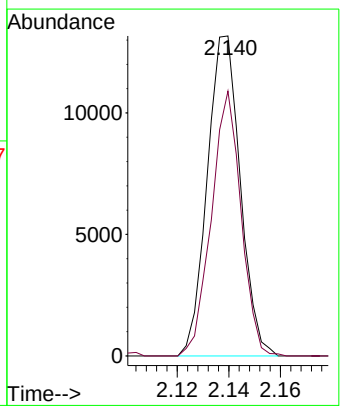
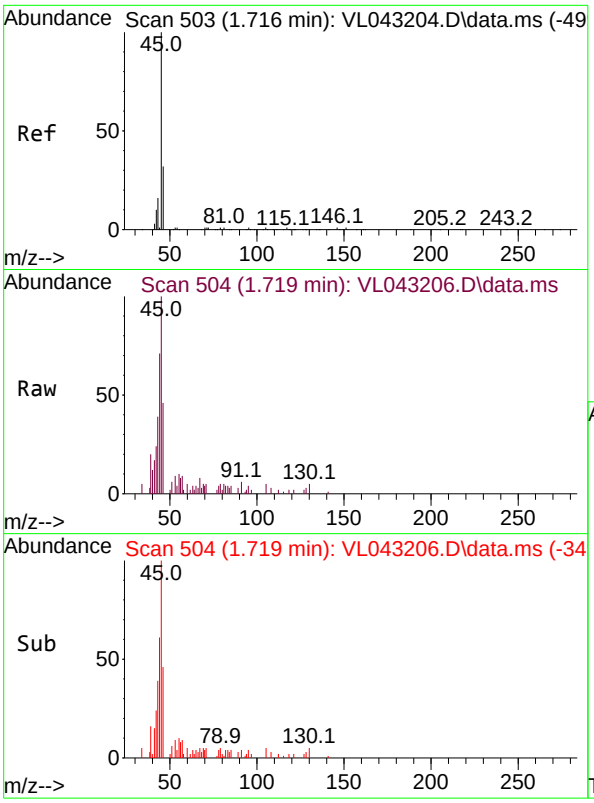


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.071 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:101 Resp: 11743

Ion	Ratio	Lower	Upper
101	100		
151	74.6	59.2	88.8

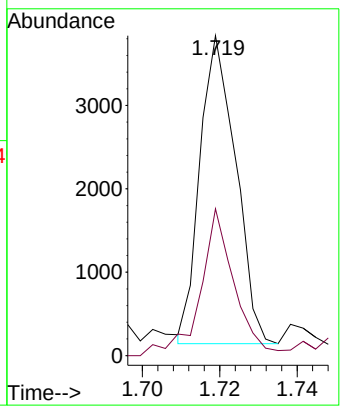




#13
Ethanol
Concen: 1.115 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 45 Resp: 237

Ion	Ratio	Lower	Upper
45	100		
46	57.0	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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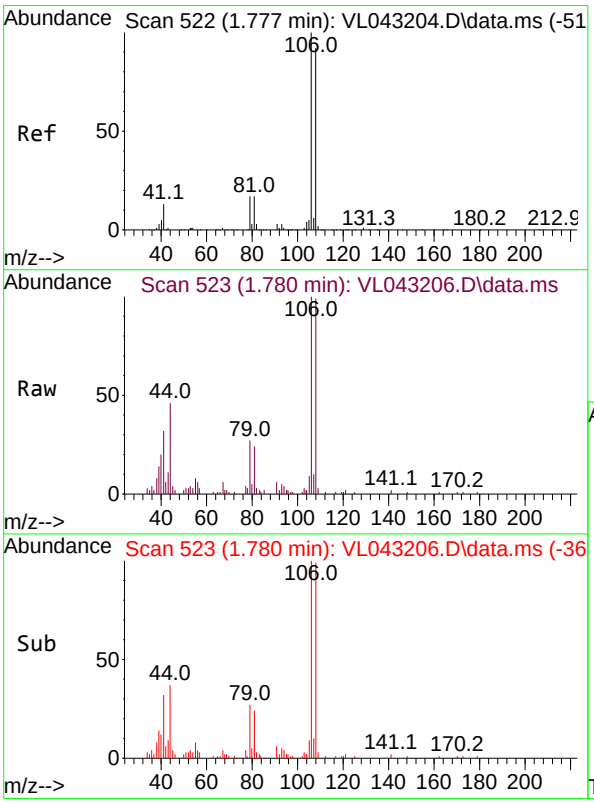
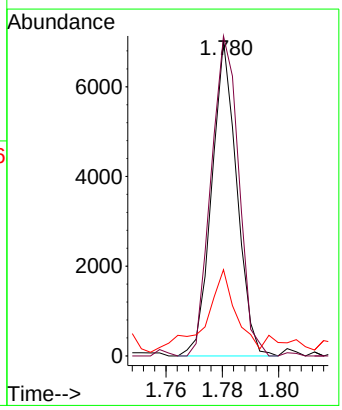
Supervised By :Mahesh Dadoda 11/19/2025

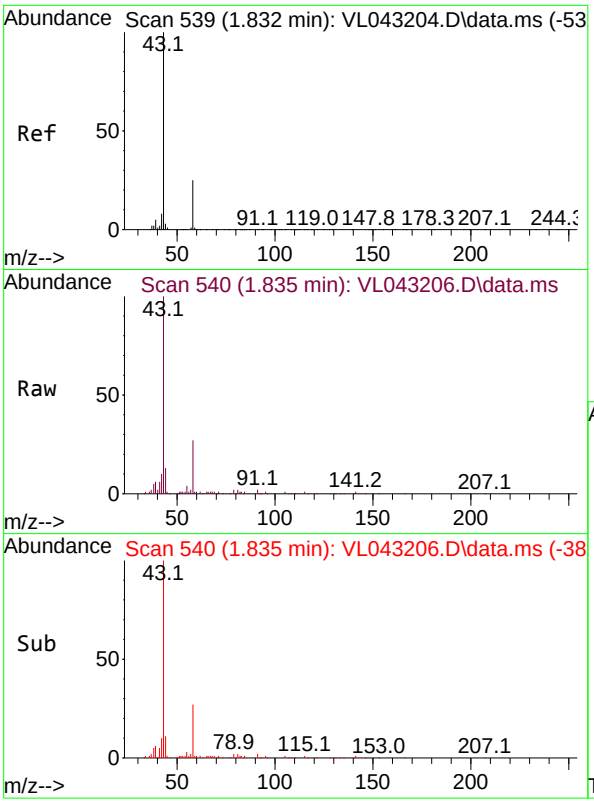


#14
Bromoethene
Concen: 1.033 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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#

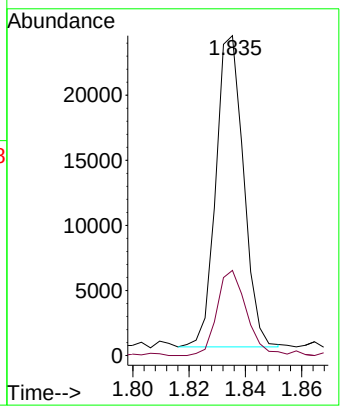




#15
Acetone
Concen: 1.145 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 1635

Ion	Ratio	Lower	Upper
43	100		
58	30.9	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
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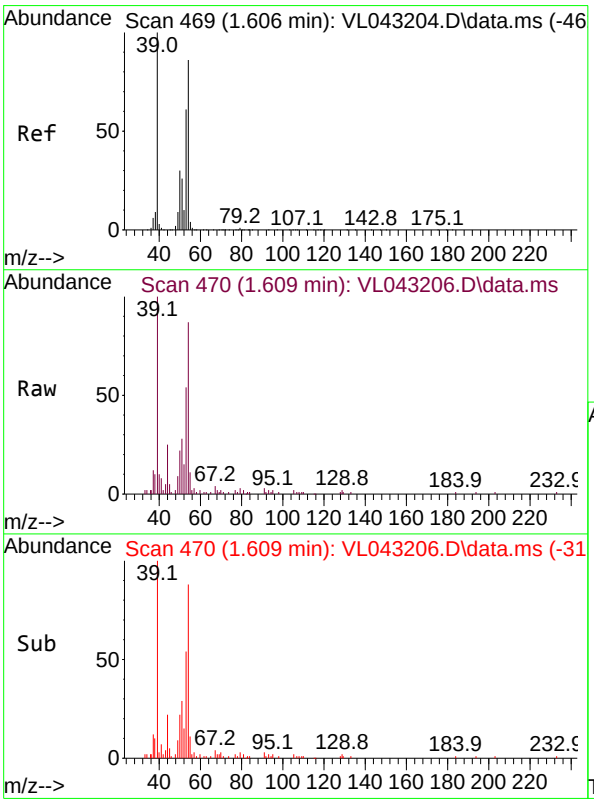
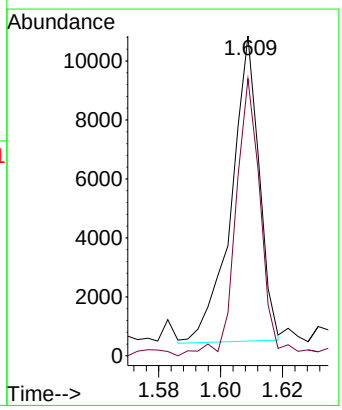
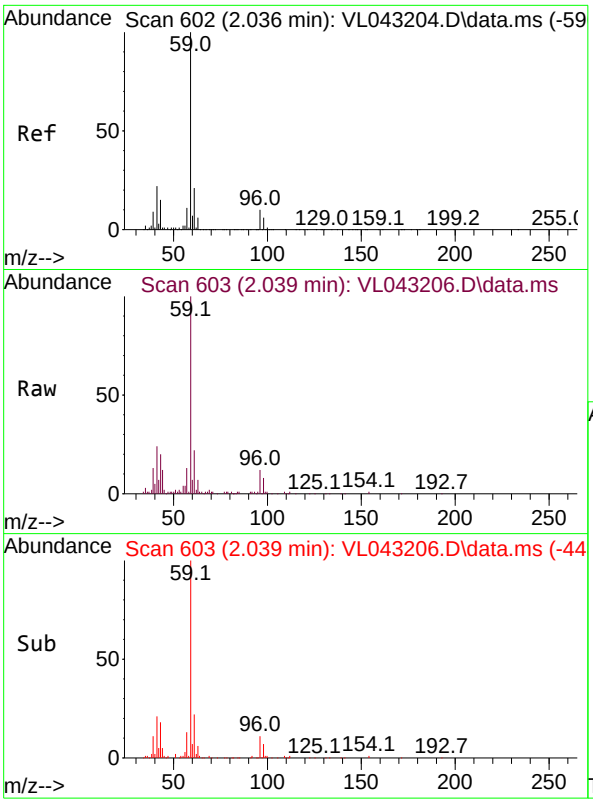


#16
1,3-Butadiene
Concen: 1.016 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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
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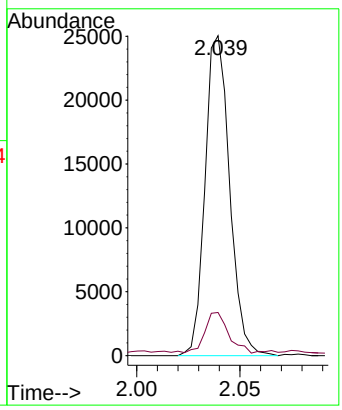
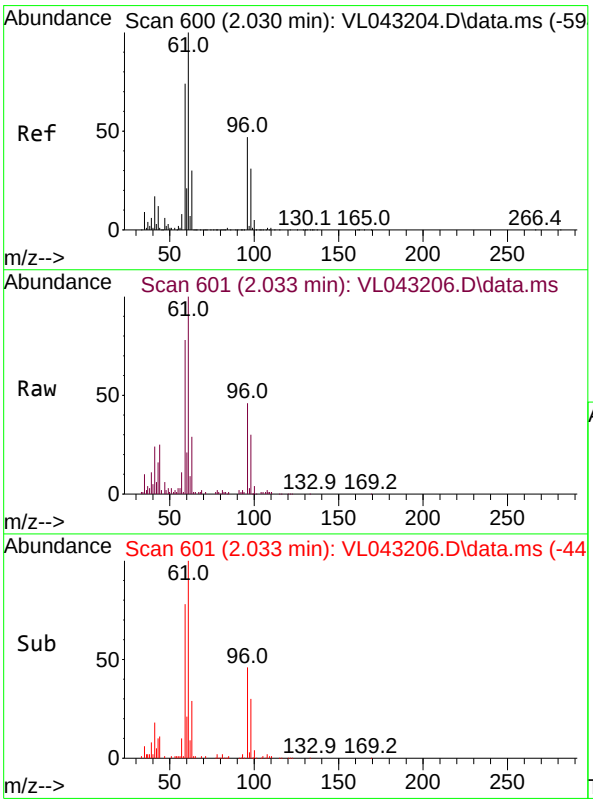
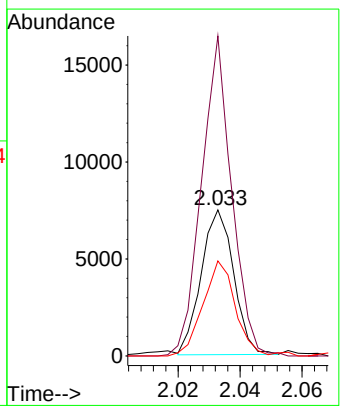


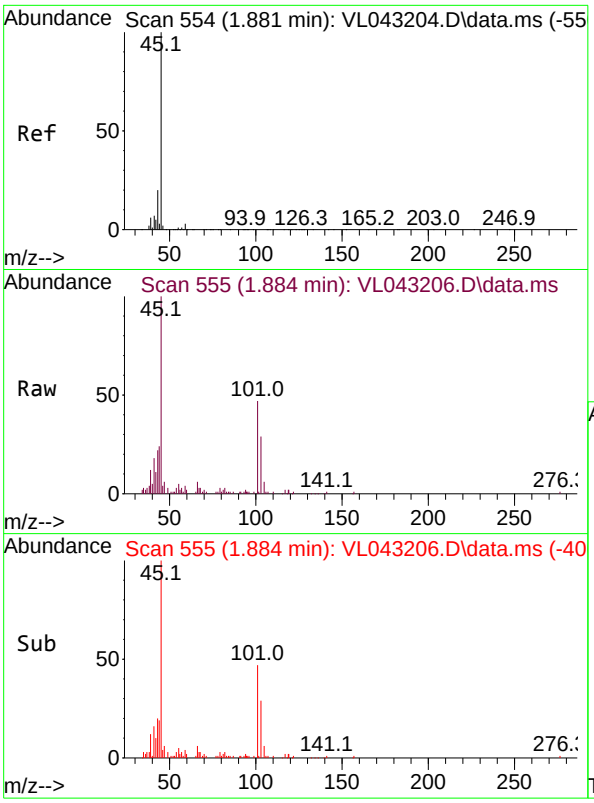


#18
1,1-Dichloroethene
Concen: 1.067 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

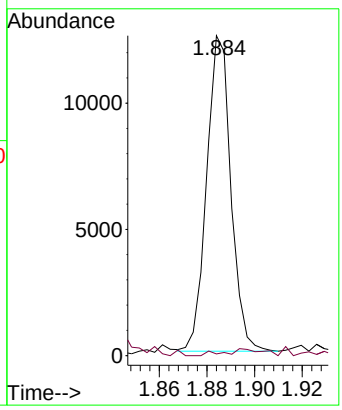




#19
Isopropyl Alcohol
Concen: 1.097 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 45 Resp: 884

Ion	Ratio	Lower	Upper
45	100		
58	4.0	31.3	46.9



Instrument :
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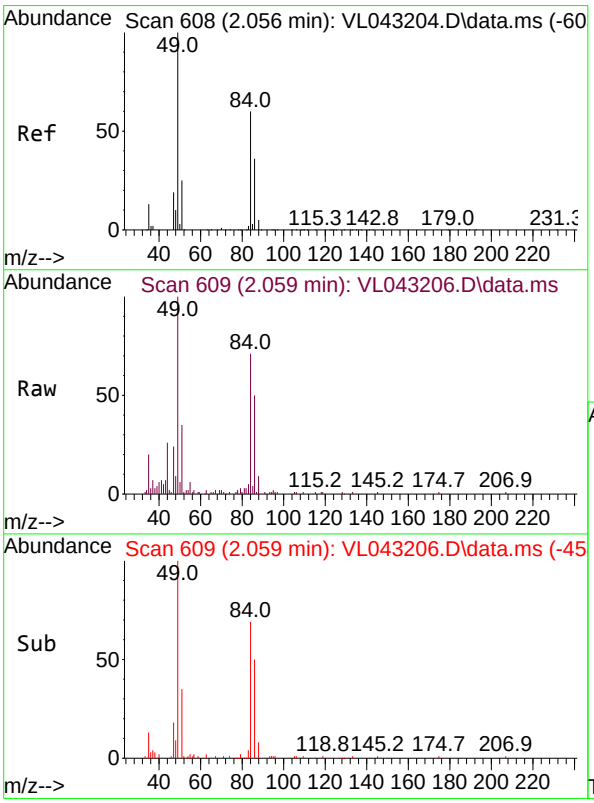
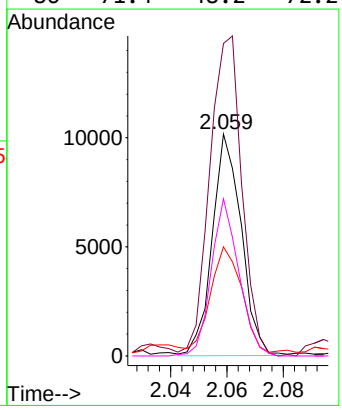
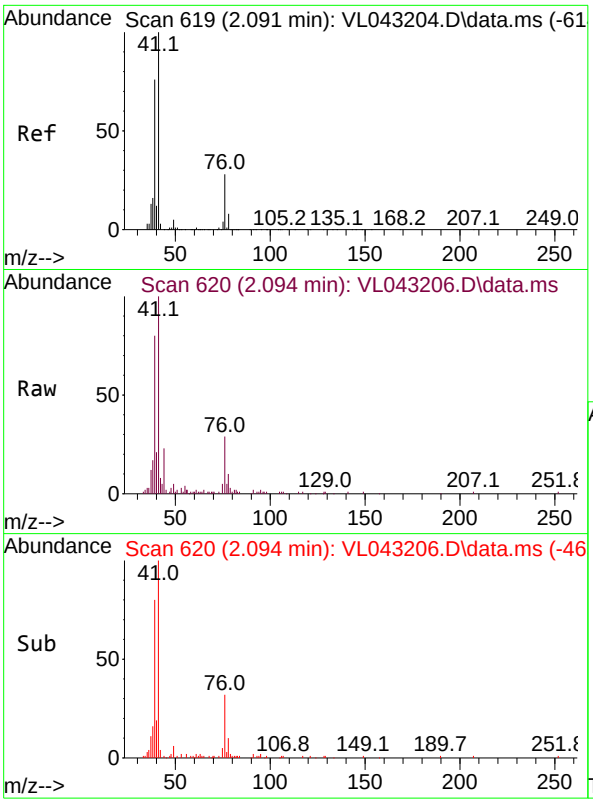


#20
Methylene Chloride
Concen: 1.030 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

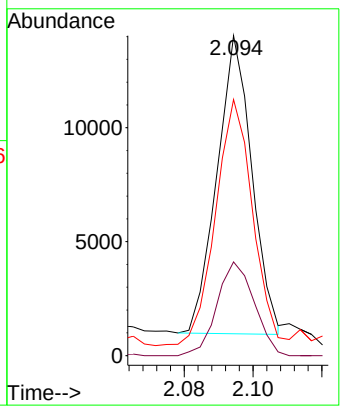




#21
Allyl Chloride
Concen: 0.957 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
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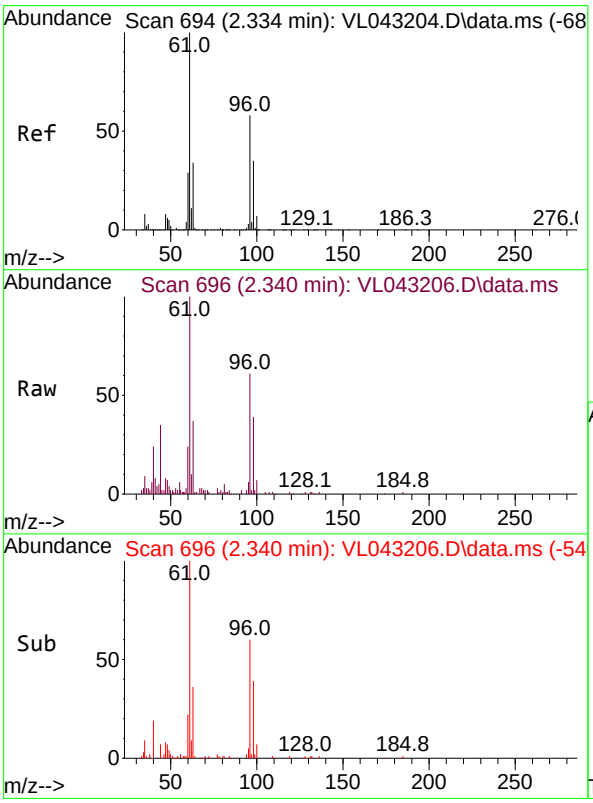
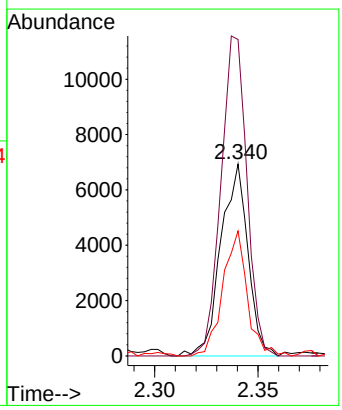
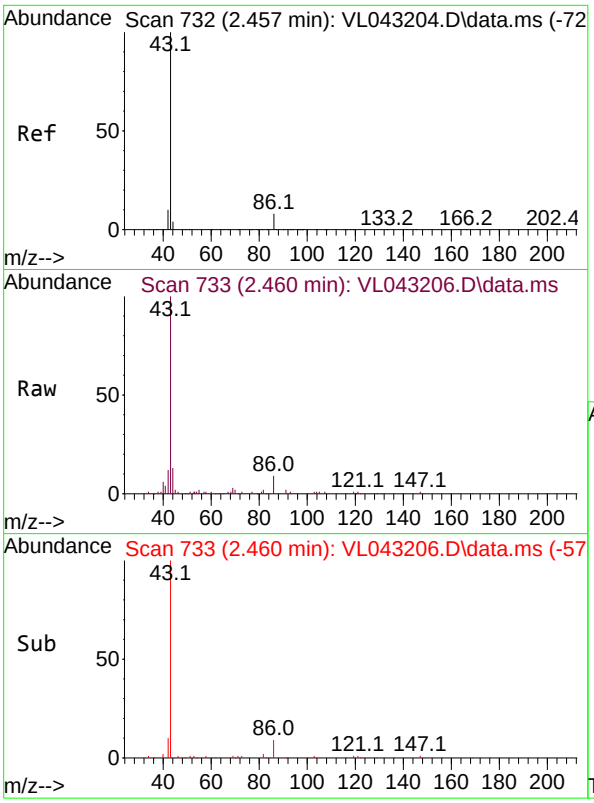


#22
trans-1,2-Dichloroethene
Concen: 1.082 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

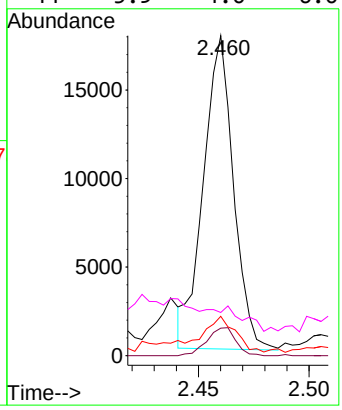




#23
Vinyl Acetate
Concen: 0.973 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
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ClientSampleId :
VSTDICC001

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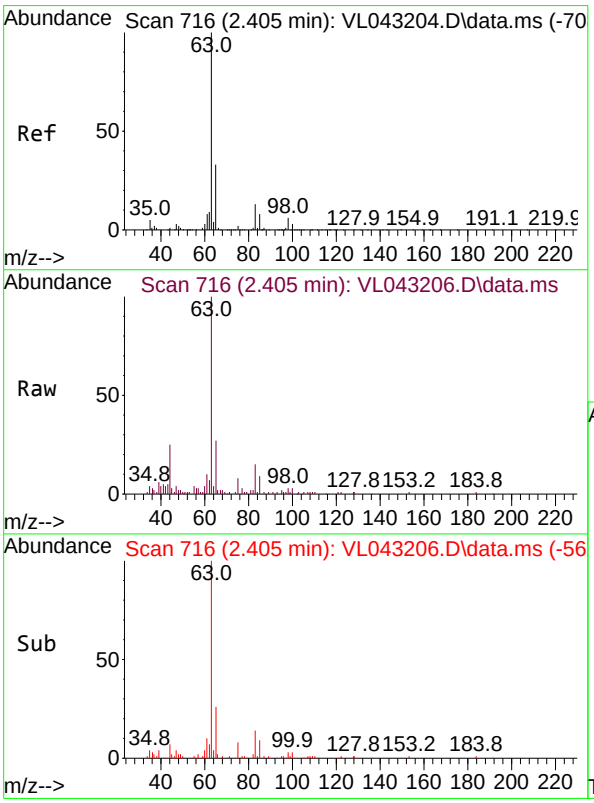
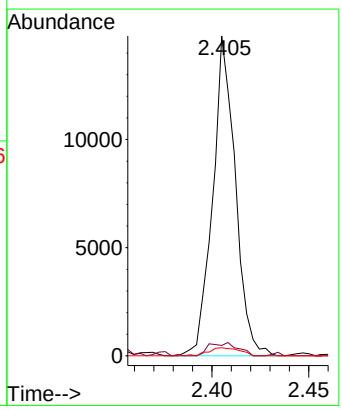
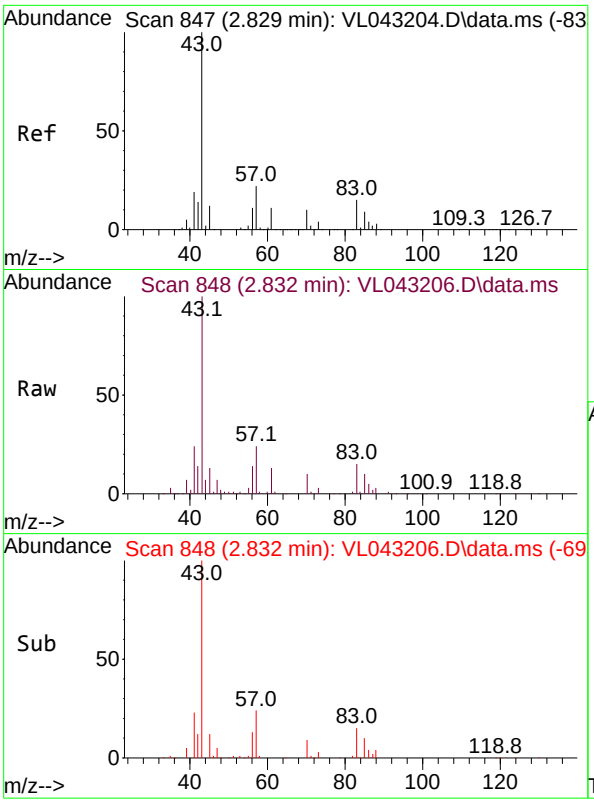


#24
1,1-Dichloroethane
Concen: 1.071 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

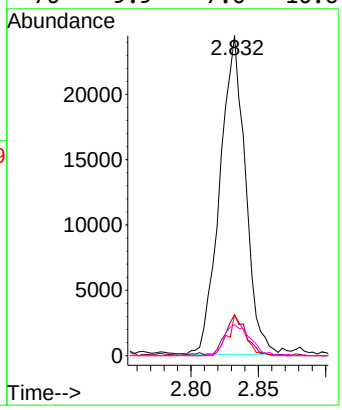




#25
Ethyl Acetate
Concen: 1.041 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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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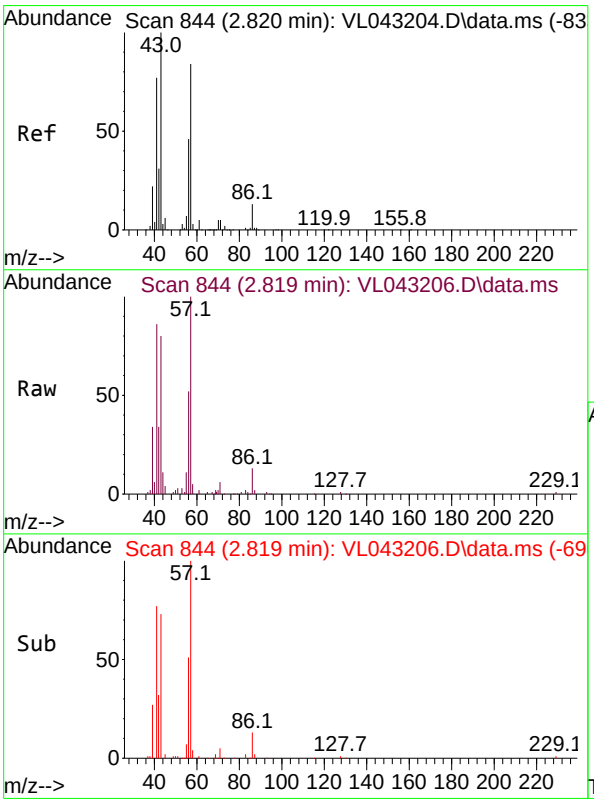
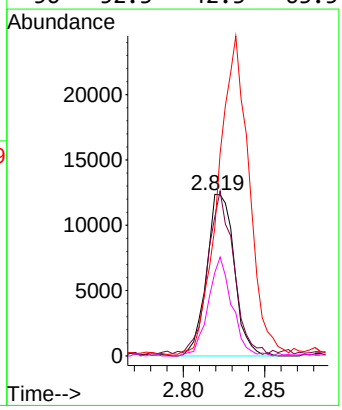
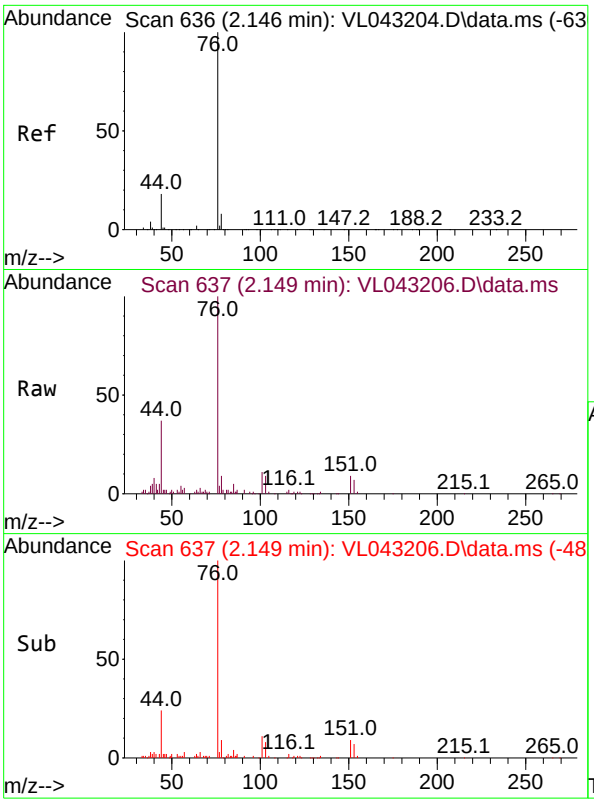


#26
Hexane
Concen: 1.084 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
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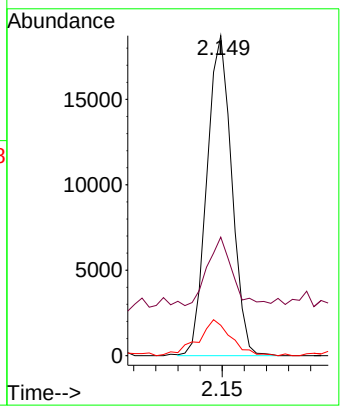
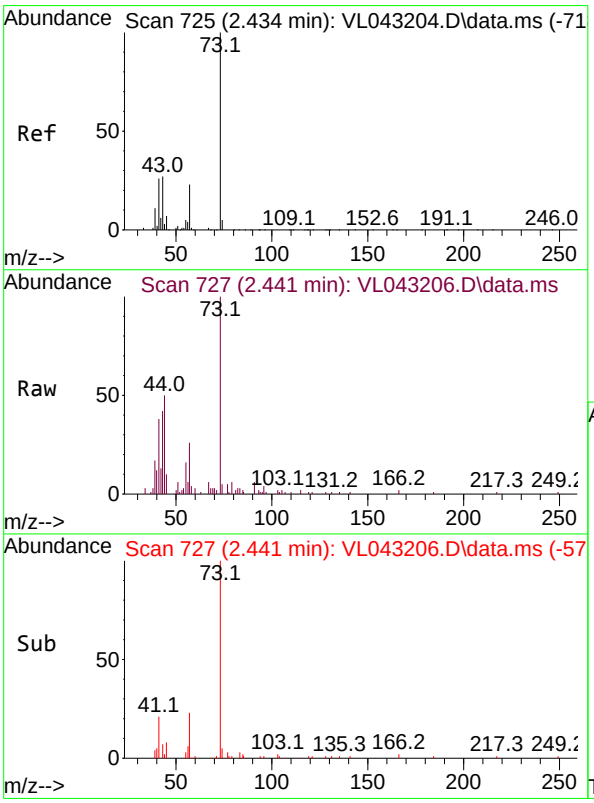
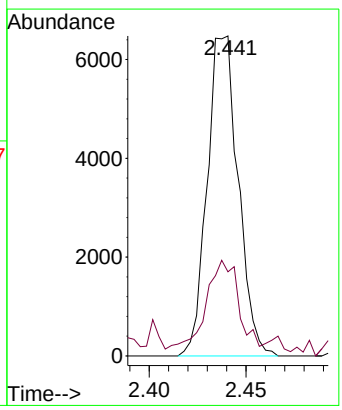


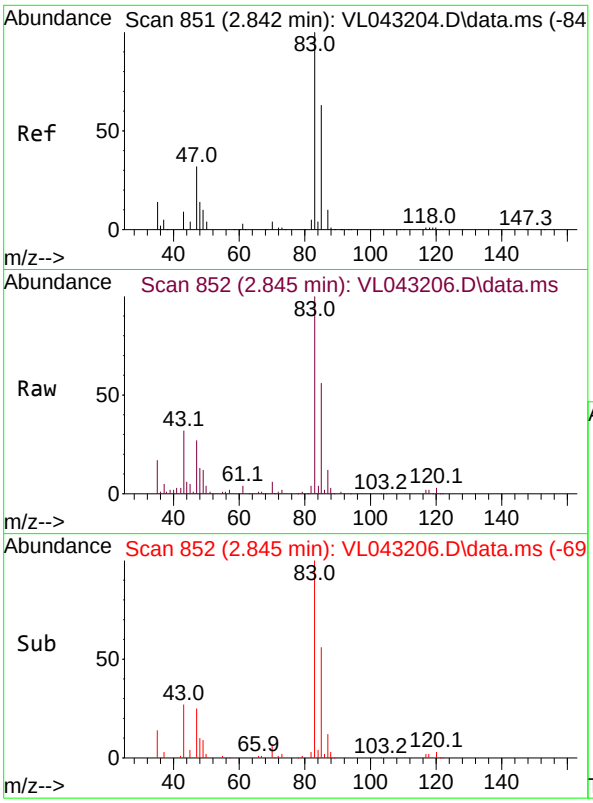


#28
Methyl tert-Butyl Ether
Concen: 1.092 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 73 Resp: 7236

Ion	Ratio	Lower	Upper
73	100		
57	33.1	19.8	29.8#

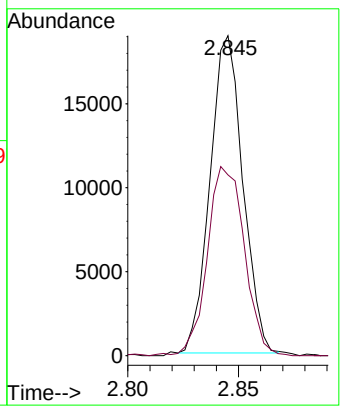




#29
Chloroform
Concen: 1.016 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 83 Resp: 1950

Ion	Ratio	Lower	Upper
83	100		
85	56.3	50.5	75.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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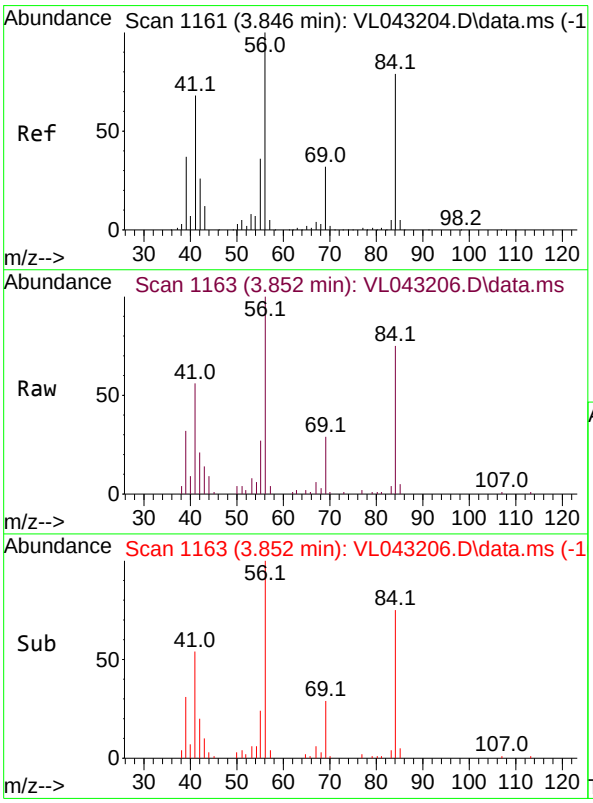
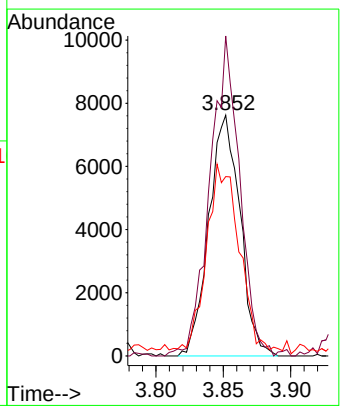
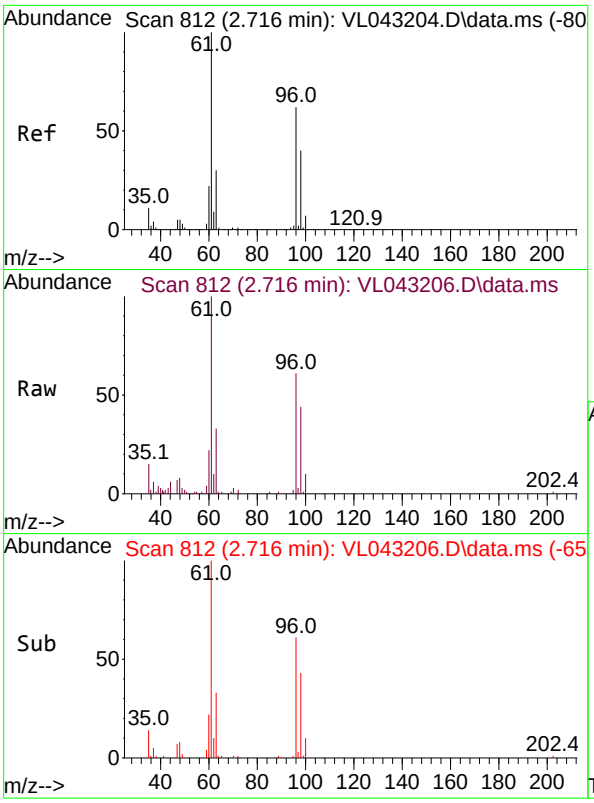


#30
Cyclohexane
Concen: 1.084 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

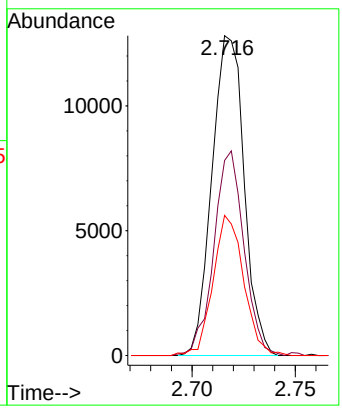




#31
cis-1,2-Dichloroethene
Concen: 1.035 ppbv
RT: 2.716 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
MSVOA_L
ClientSampleId :
VSTDICC001

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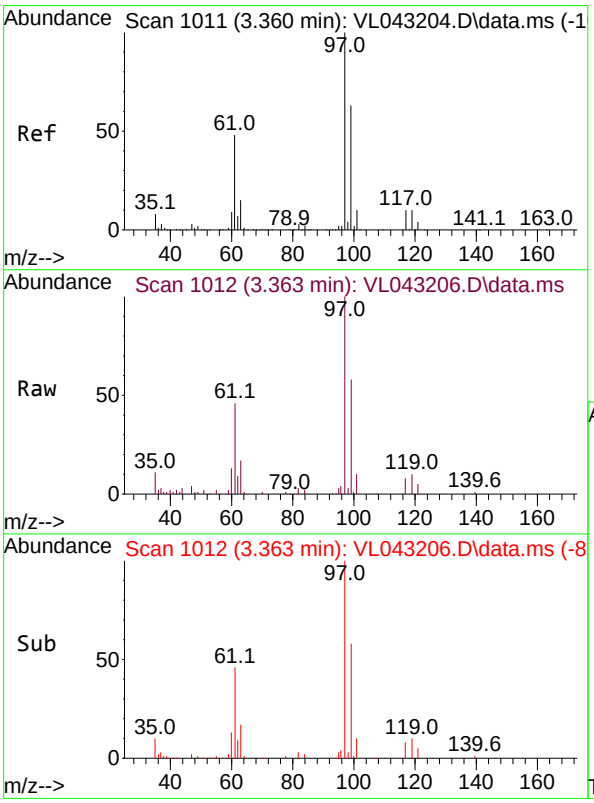
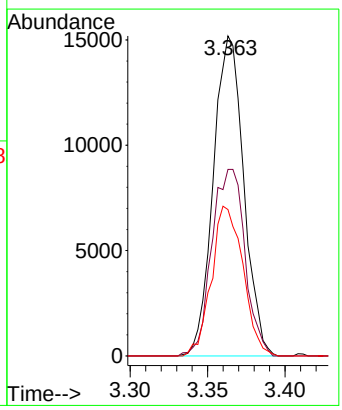
Supervised By :Mahesh Dadoda 11/19/2025

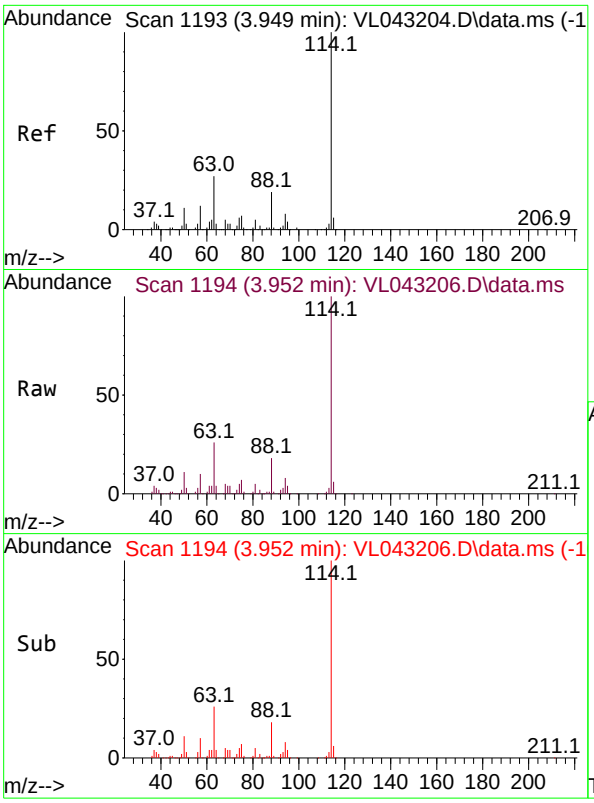


#32
1,1,1-Trichloroethane
Concen: 1.005 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

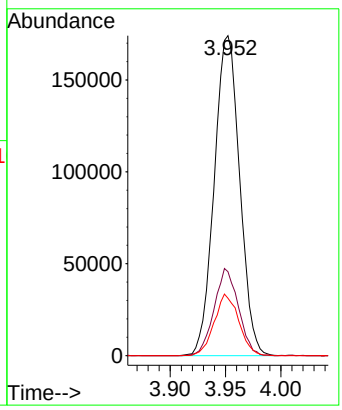




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
MSVOA_L
ClientSampleId :
VSTDICC001

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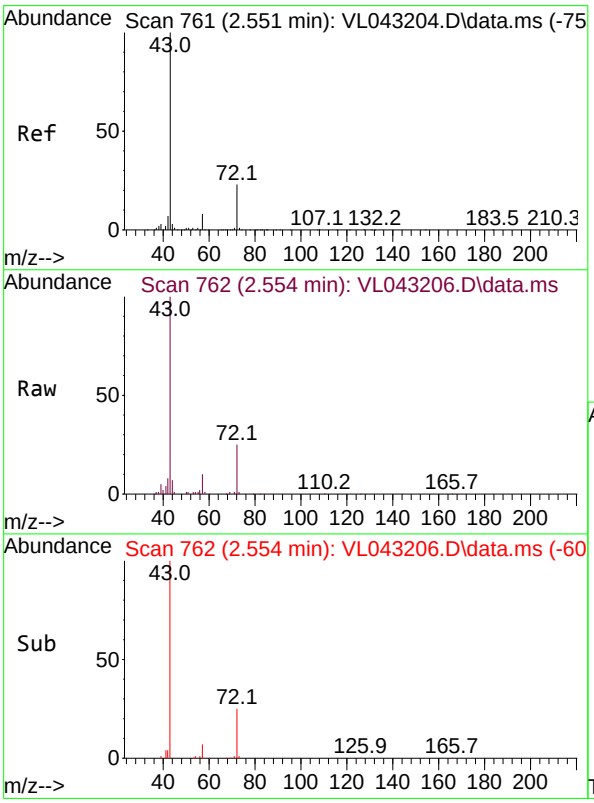
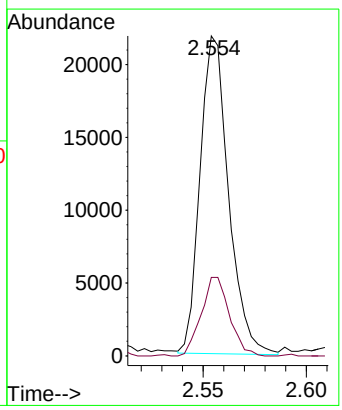
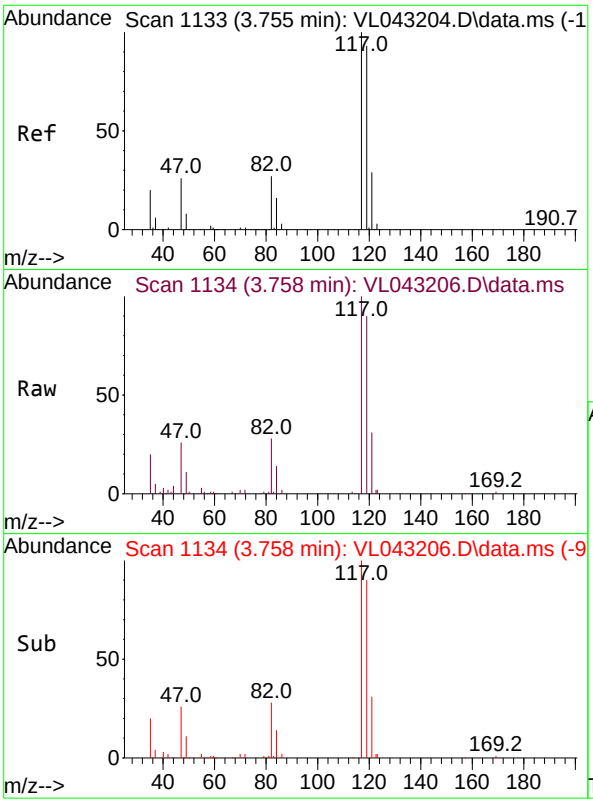


#34
2-Butanone
Concen: 1.064 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 20940

Ion	Ratio	Lower	Upper
43	100		
72	24.7	18.1	27.1

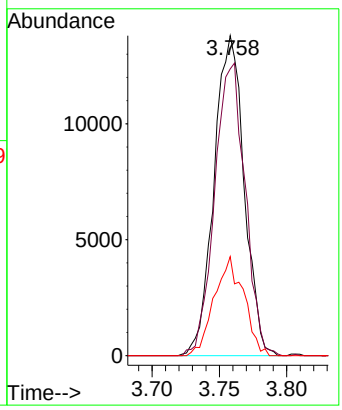




#35
Carbon Tetrachloride
Concen: 1.016 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
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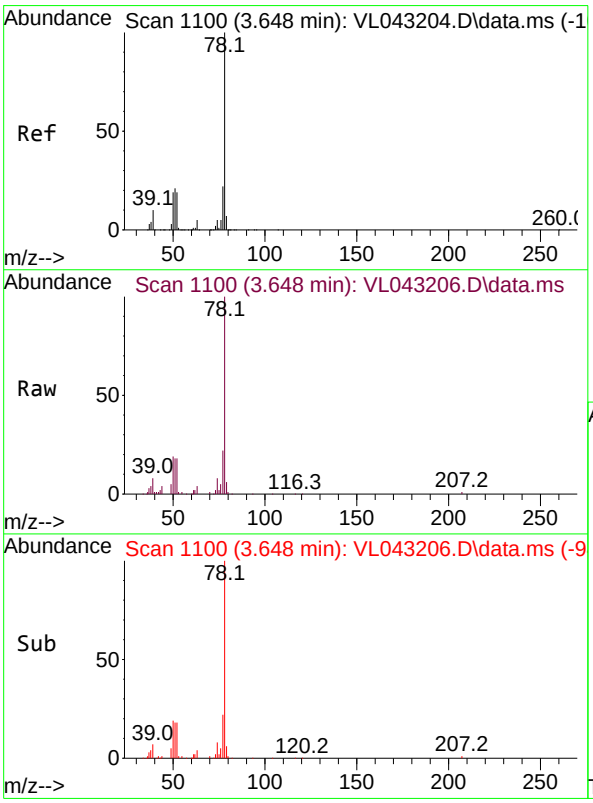
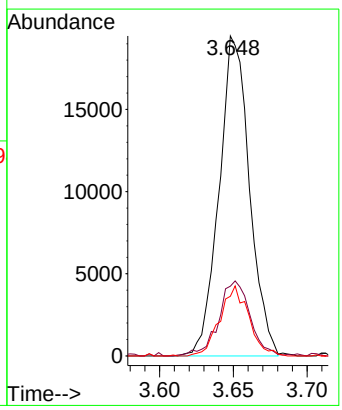
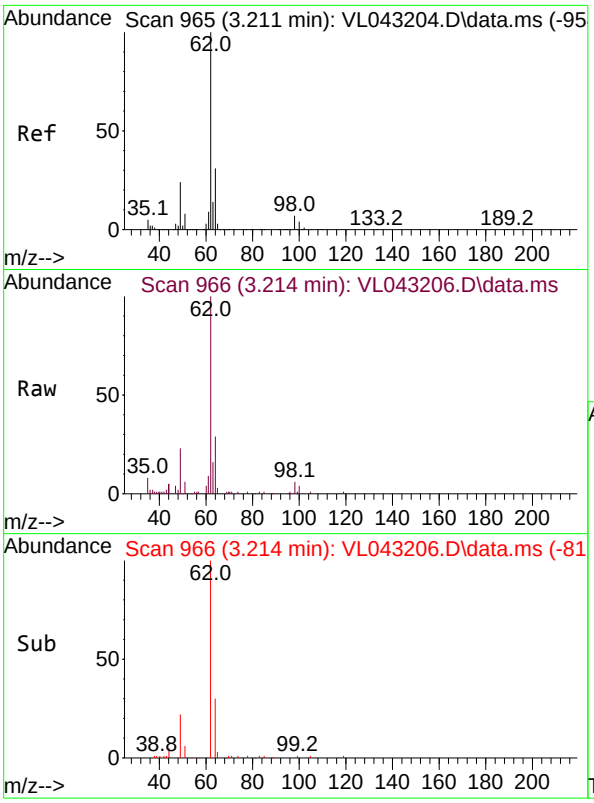


#36
Benzene
Concen: 1.046 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

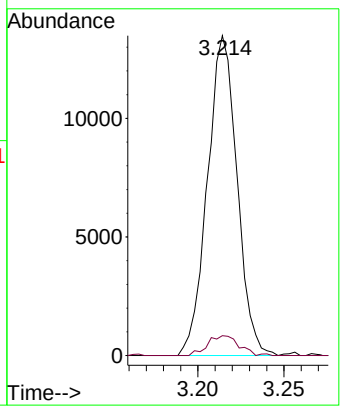




#37
1,2-Dichloroethane
Concen: 1.035 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 62 Resp: 1615

Ion	Ratio	Lower	Upper
62	100		
98	6.7	5.5	8.3



Instrument :
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ClientSampleId :
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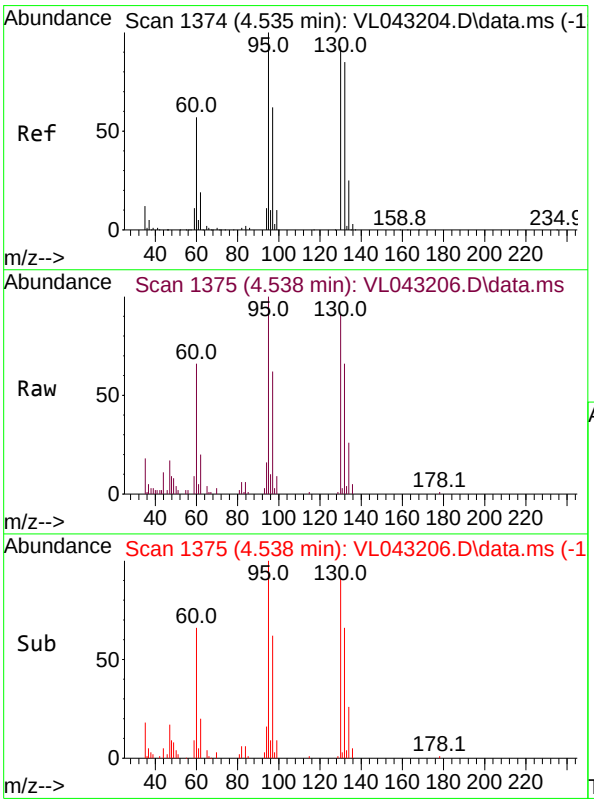
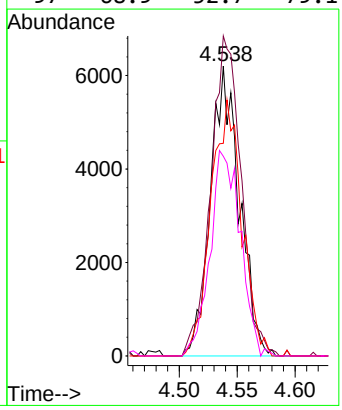
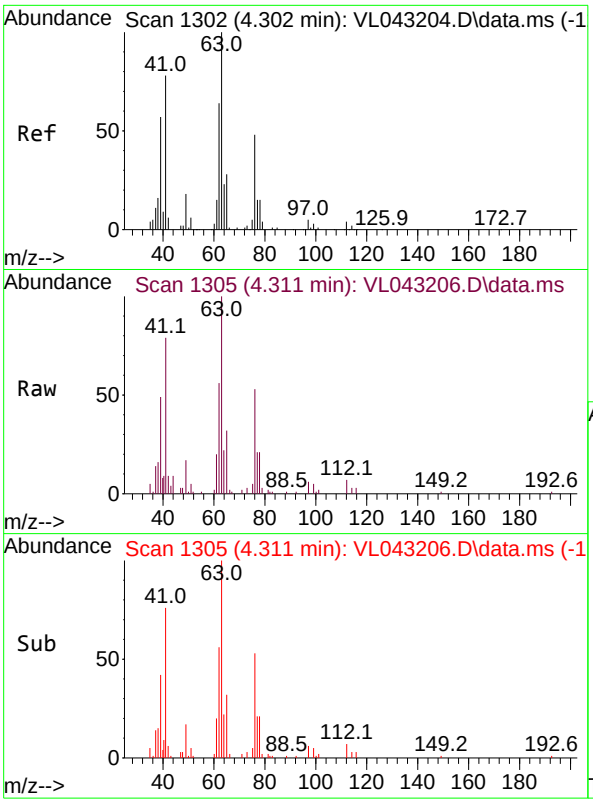


#38
Trichloroethene
Concen: 1.033 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
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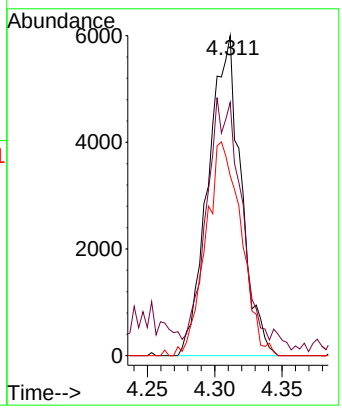
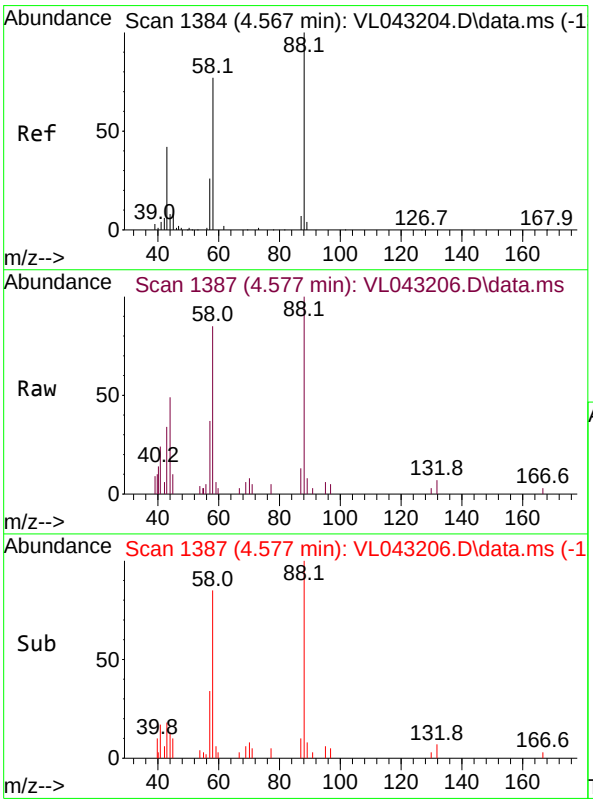
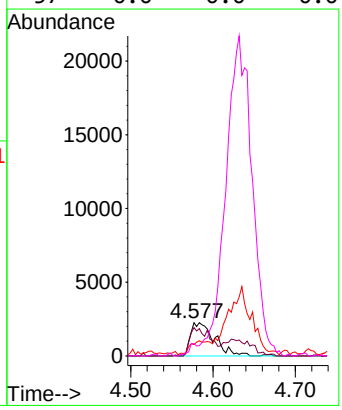


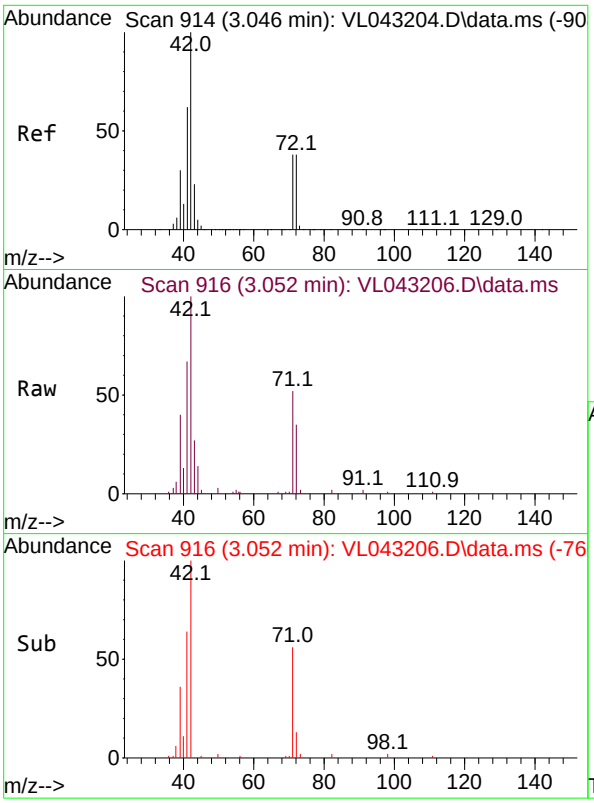


#40
1,4-Dioxane
Concen: 1.051 ppbv m
RT: 4.577 min Scan# 1387
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

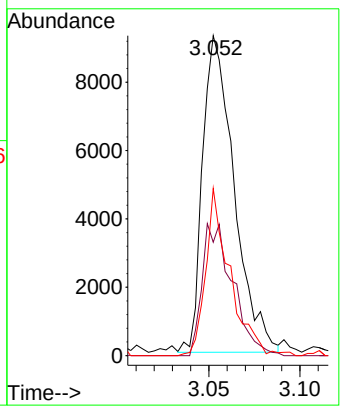




#41
Tetrahydrofuran
Concen: 1.029 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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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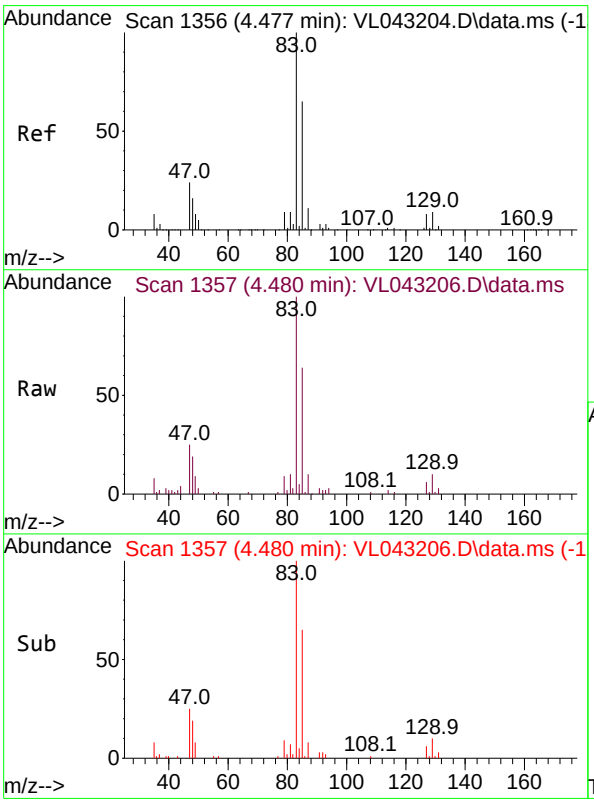
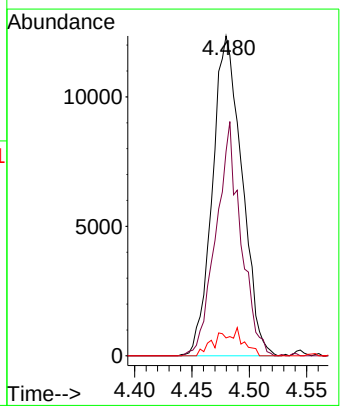
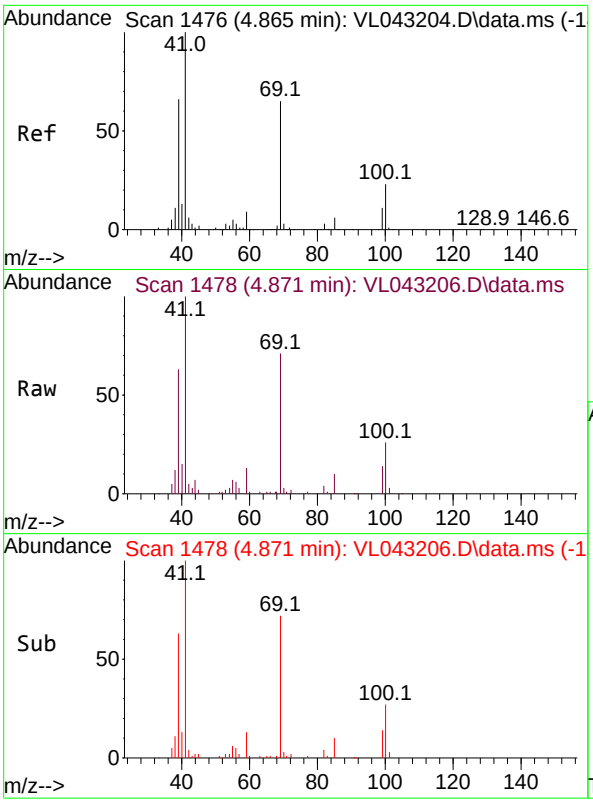


#42
Bromodichloromethane
Concen: 1.028 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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#

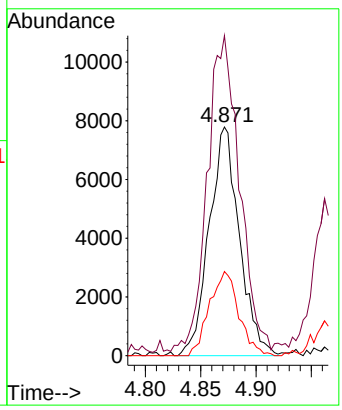




#43
Methyl Methacrylate
Concen: 1.046 ppbv
RT: 4.871 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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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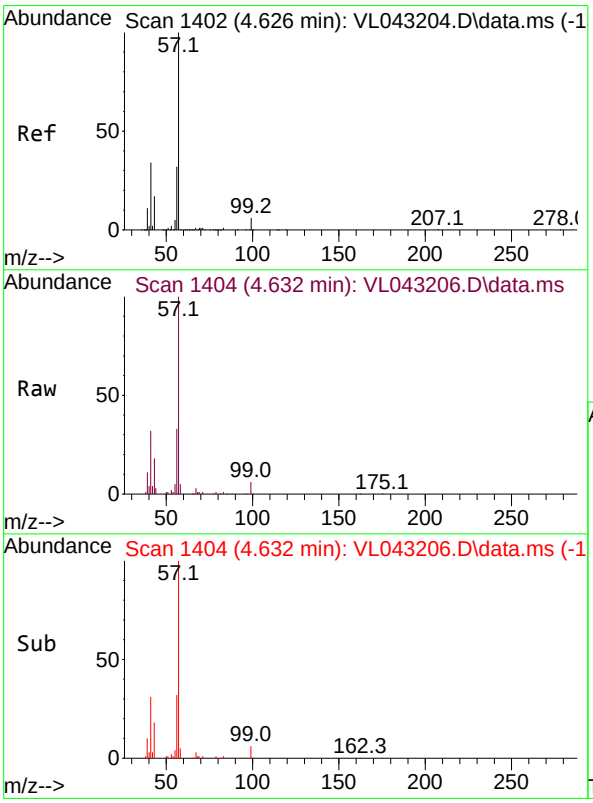
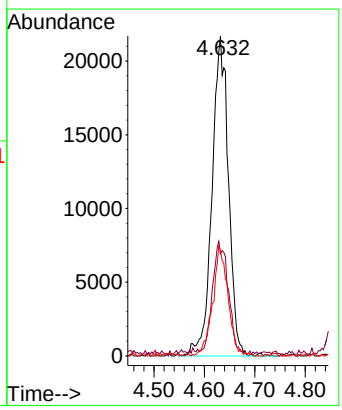
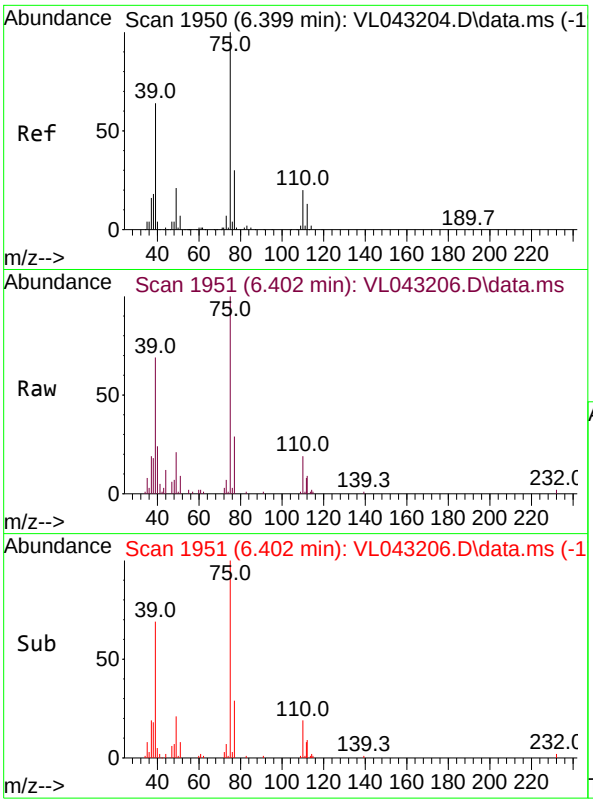


#44
2,2,4-Trimethylpentane
Concen: 1.073 ppbv m
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

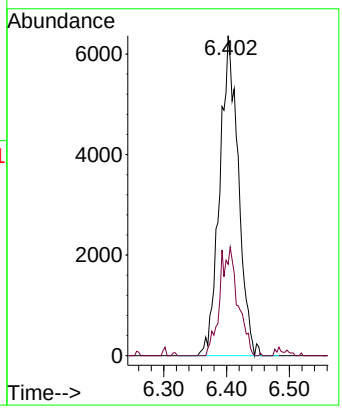




#45
t-1,3-Dichloropropene
Concen: 0.996 ppbv m
RT: 6.402 min Scan# 19
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 75 Resp: 13149

Ion	Ratio	Lower	Upper
75	100		
77	28.5	24.3	36.5



Instrument :
MSVOA_L
ClientSampleId :
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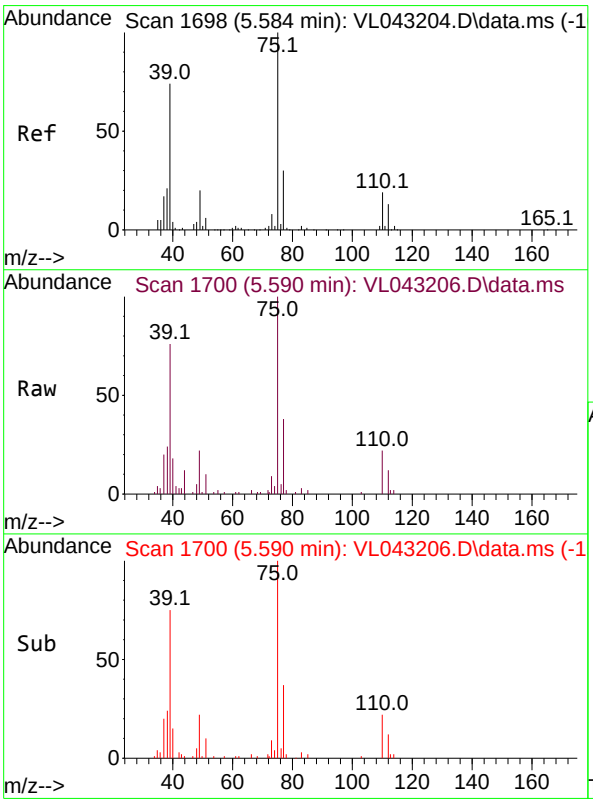
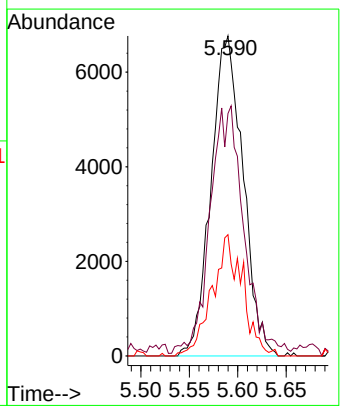
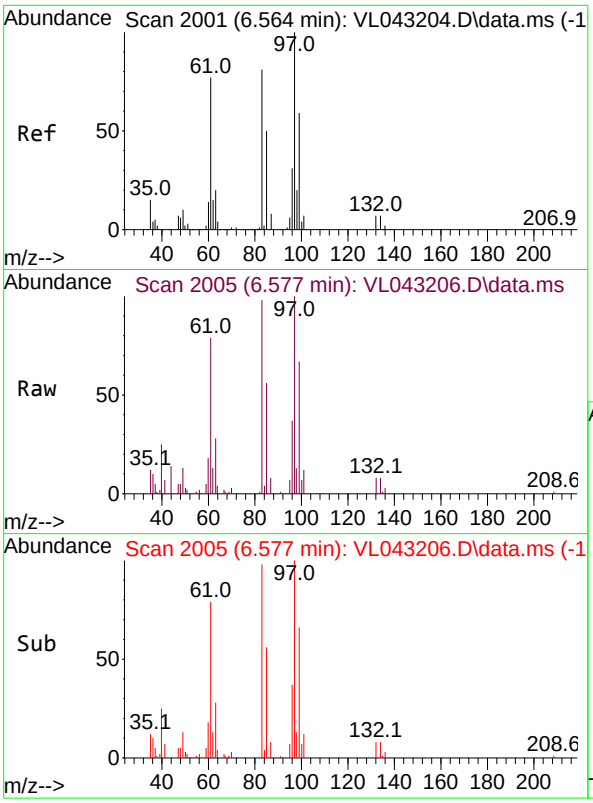


#46
cis-1,3-Dichloropropene
Concen: 1.001 ppbv
RT: 5.590 min Scan# 1700
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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#

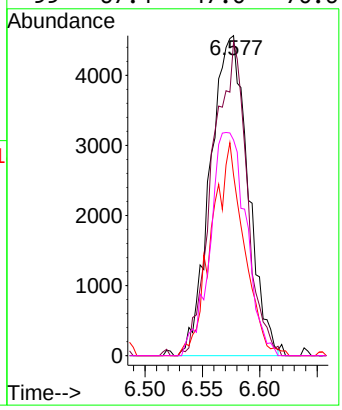




#47
1,1,2-Trichloroethane
Concen: 0.995 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
MSVOA_L
ClientSampleId :
VSTDICC001

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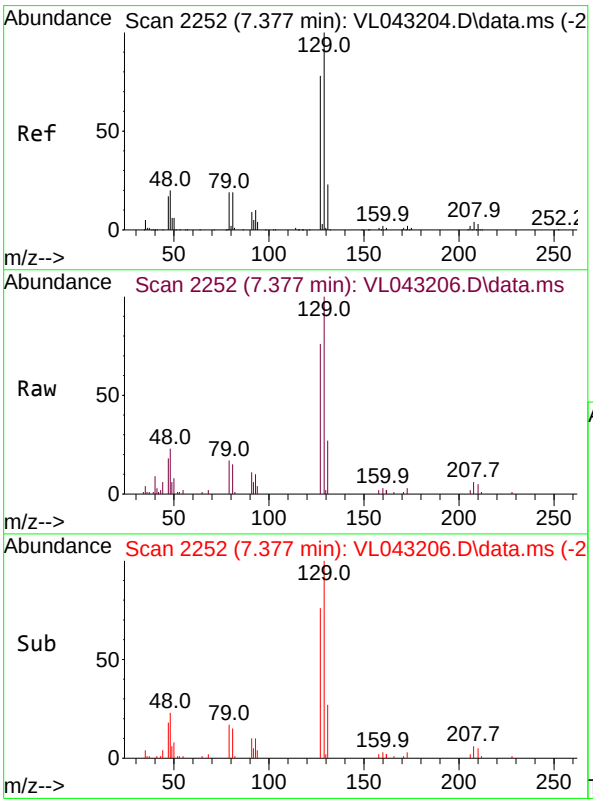
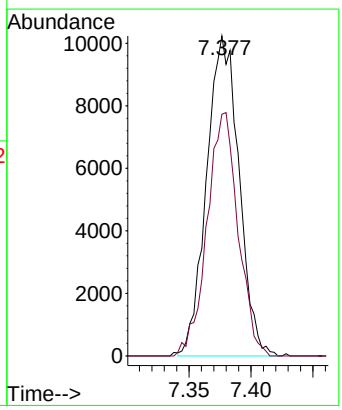
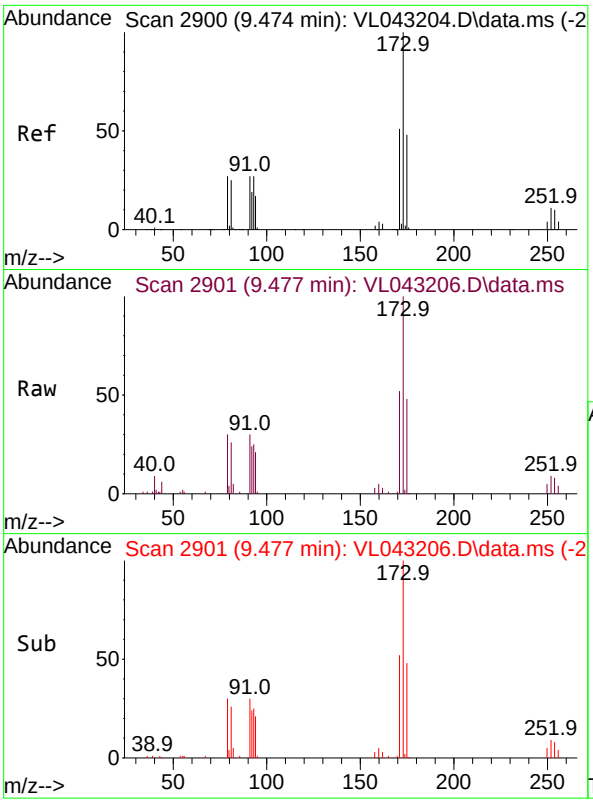


#48
Dibromochloromethane
Concen: 1.041 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:129 Resp: 18560

Ion	Ratio	Lower	Upper
129	100		
127	72.8	39.3	117.9

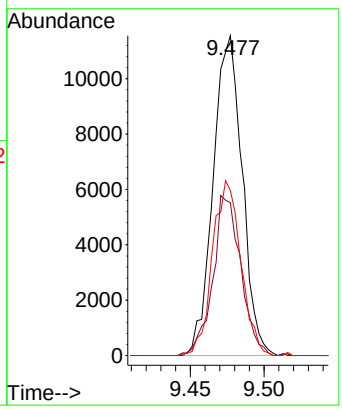




#49
Bromoform
Concen: 1.004 ppbv
RT: 9.477 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
MSVOA_L
ClientSampleId :
VSTDICC001

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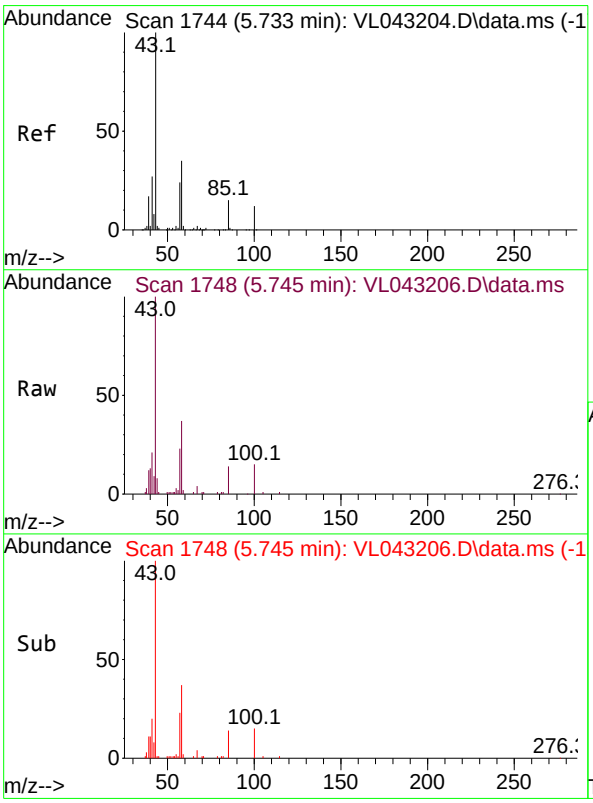
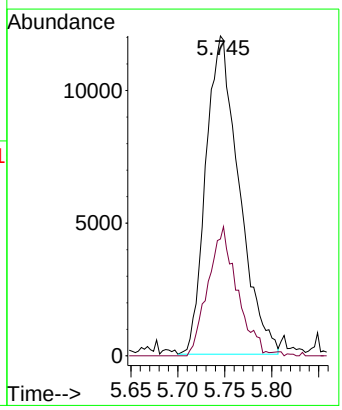
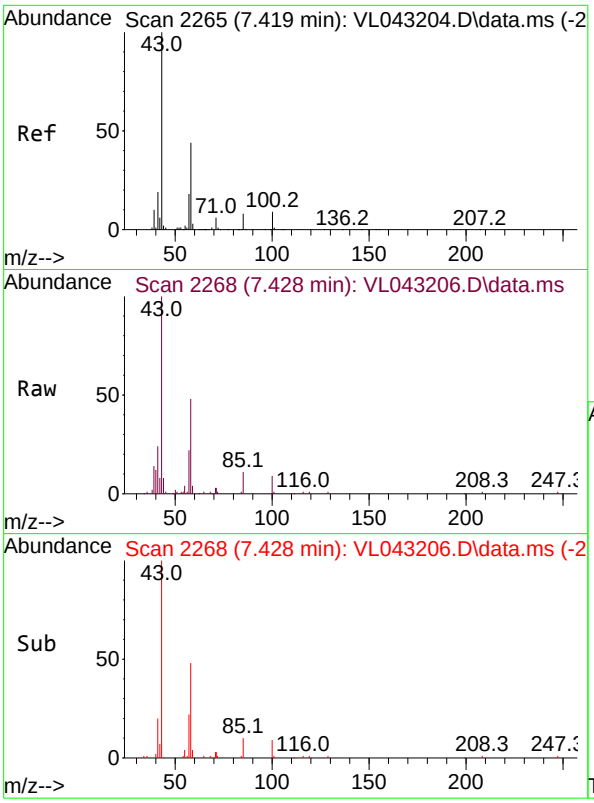


#50
4-Methyl-2-Pentanone
Concen: 1.067 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.013 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 29560

Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.4	42.6

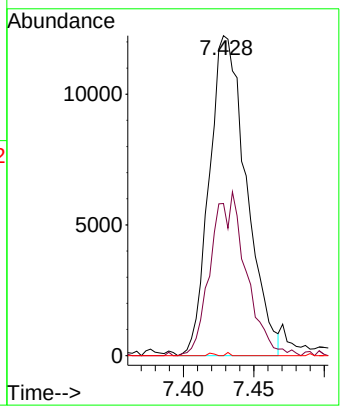




#51
2-Hexanone
Concen: 1.043 ppbv
RT: 7.428 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
MSVOA_L
ClientSampleId :
VSTDICC001

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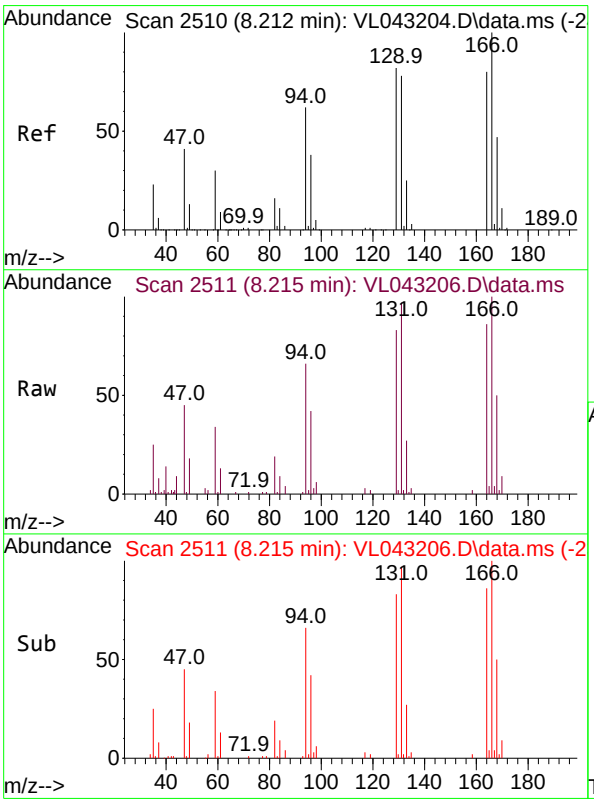
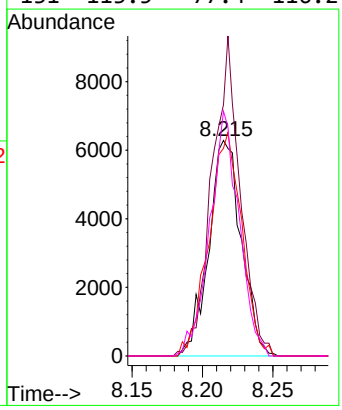
Supervised By :Mahesh Dadoda 11/19/2025

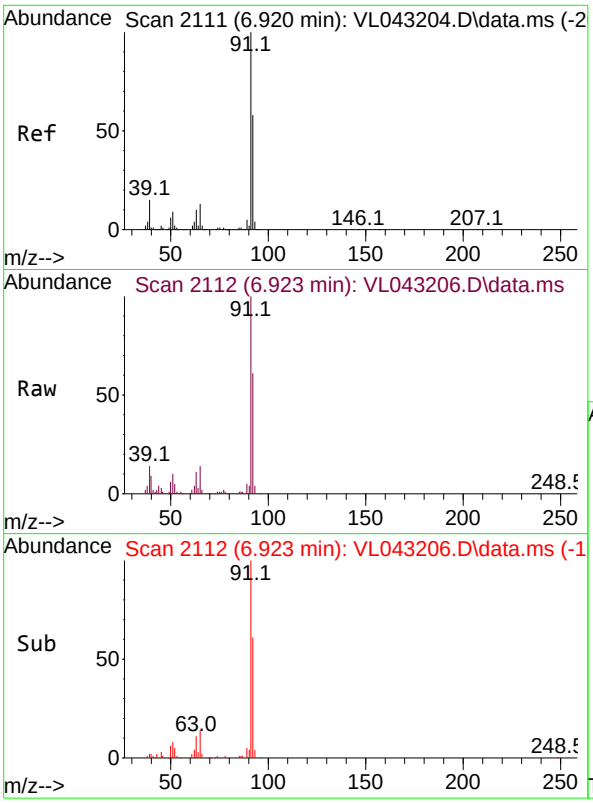


#52
Tetrachloroethene
Concen: 1.015 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

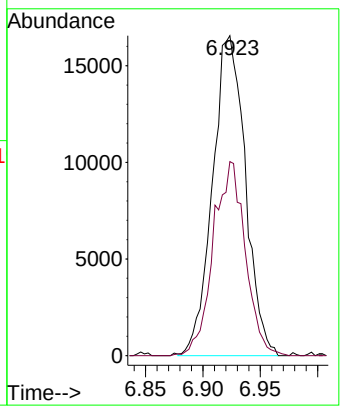




#53
Toluene
Concen: 1.036 ppbv
RT: 6.923 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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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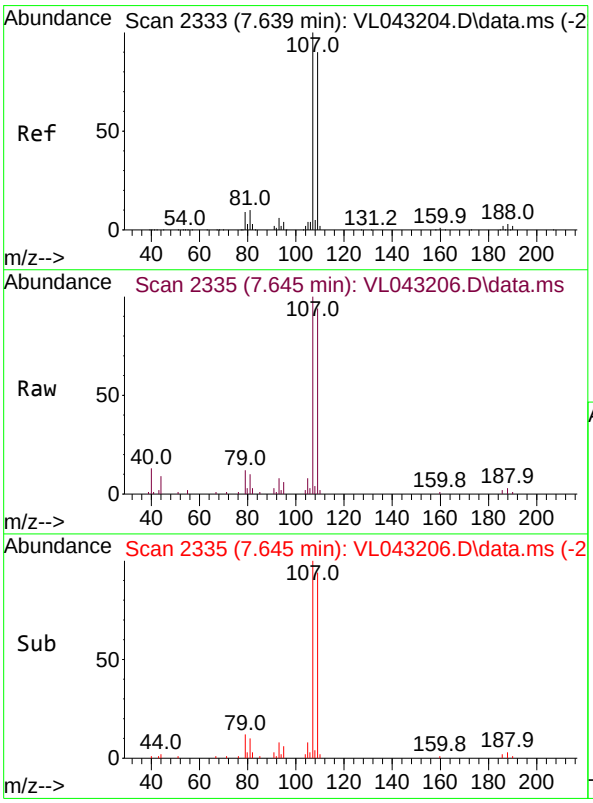
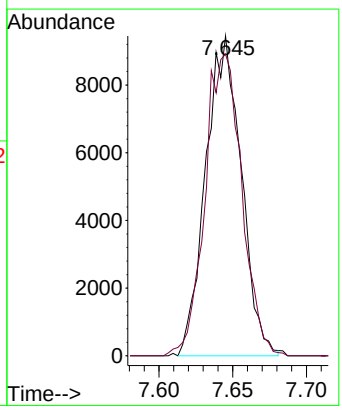
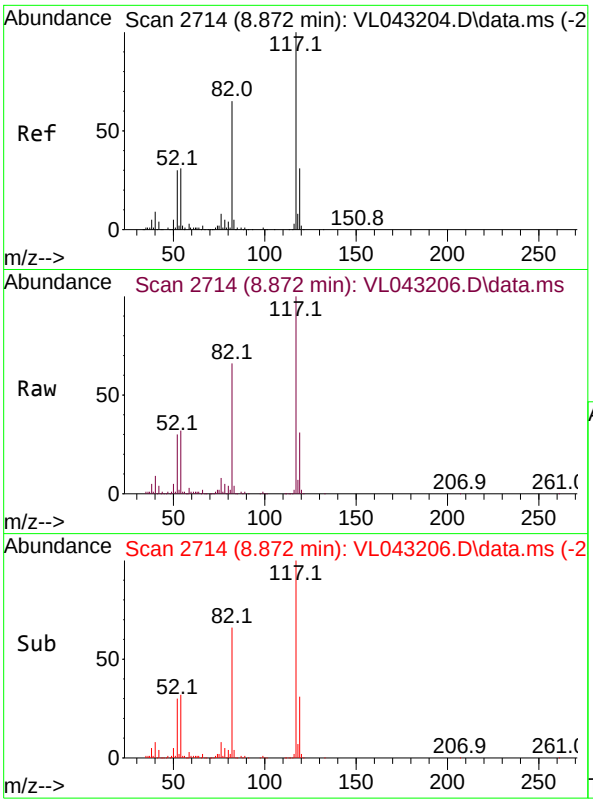


#54
1,2-Dibromoethane
Concen: 1.040 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:107 Resp: 15865

Ion	Ratio	Lower	Upper
107	100		
109	93.3	72.1	108.1

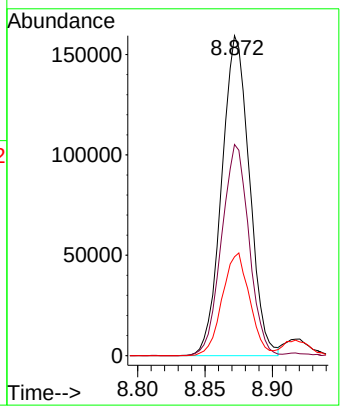




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
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ClientSampleId :
VSTDICC001

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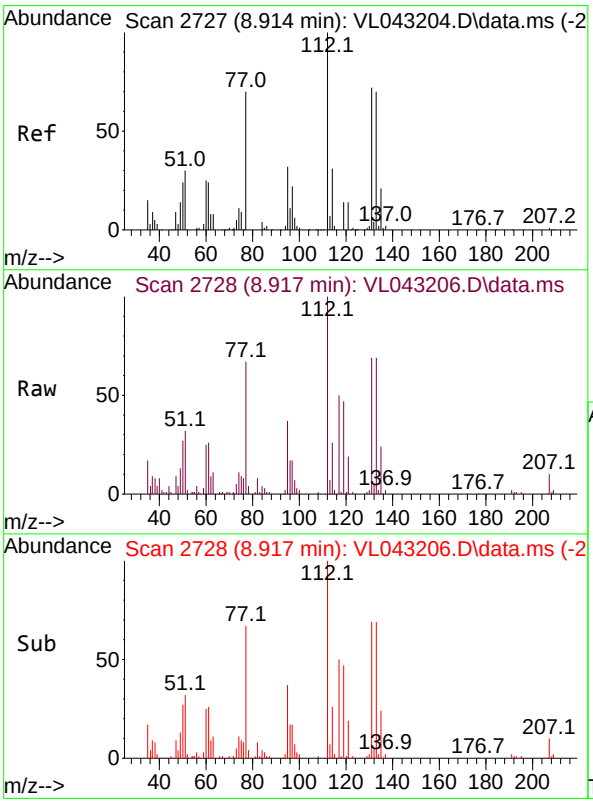
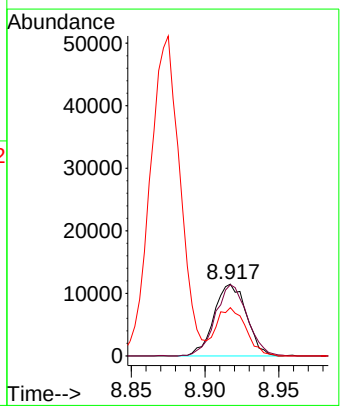
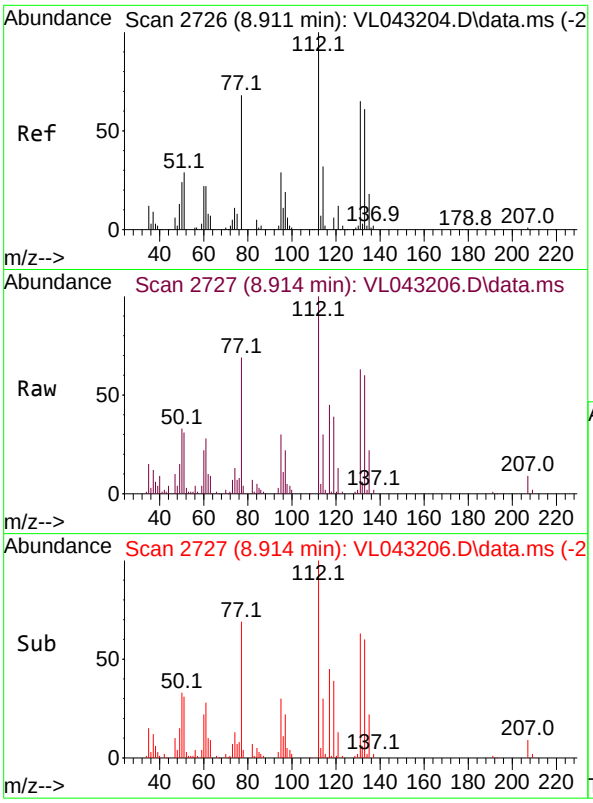


#56
1,1,1,2-Tetrachloroethane
Concen: 1.046 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

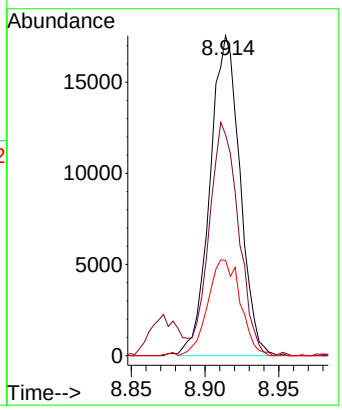




#57
Chlorobenzene
Concen: 1.060 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
MSVOA_L
ClientSampleId :
VSTDICC001

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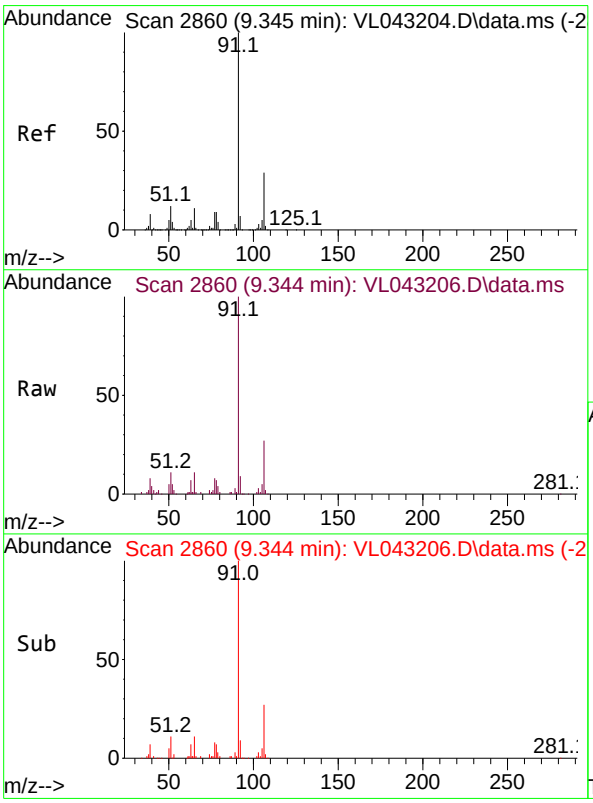
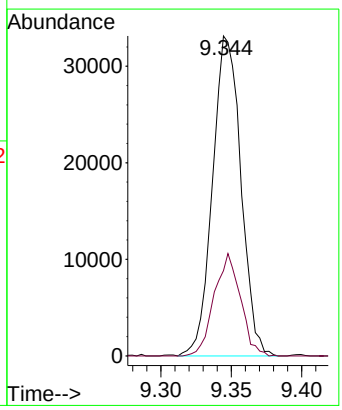
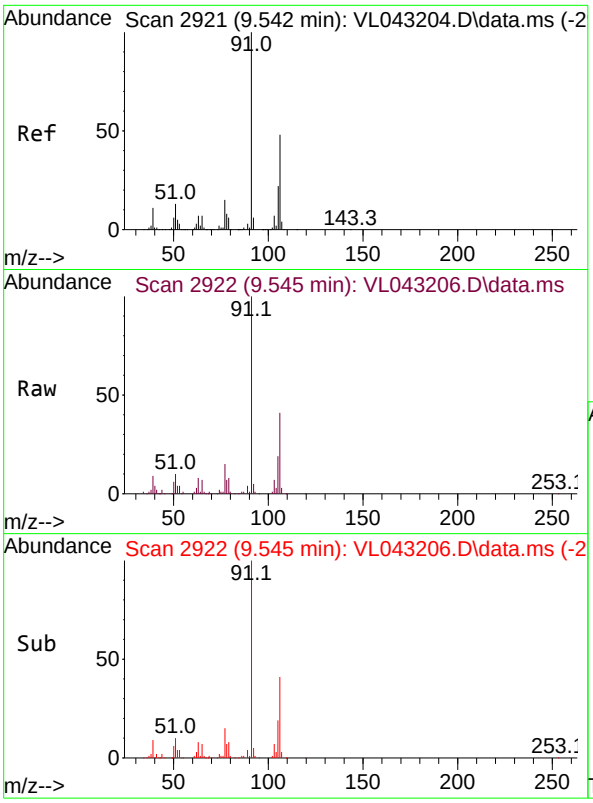


#58
Ethyl Benzene
Concen: 1.059 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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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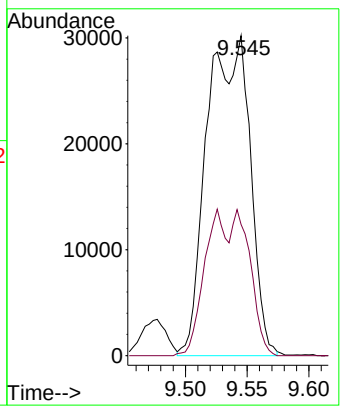
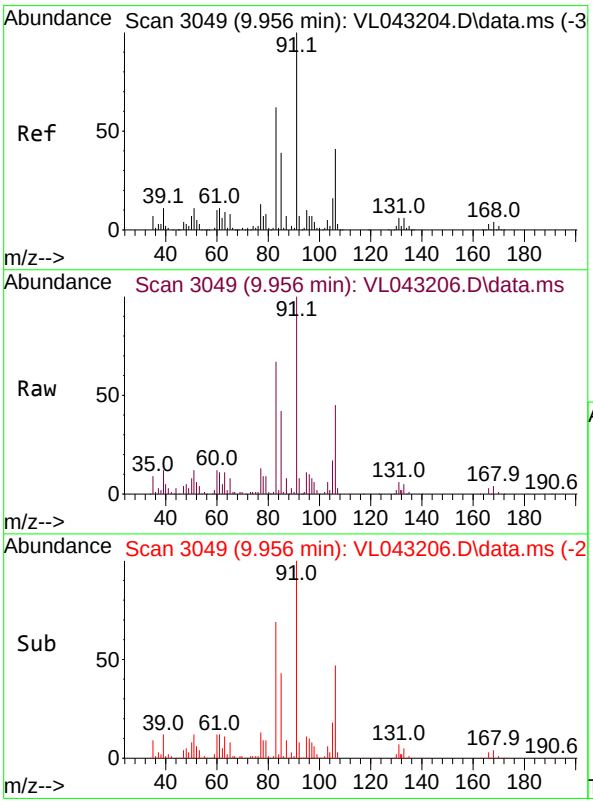
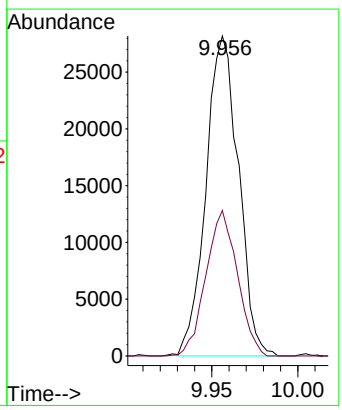


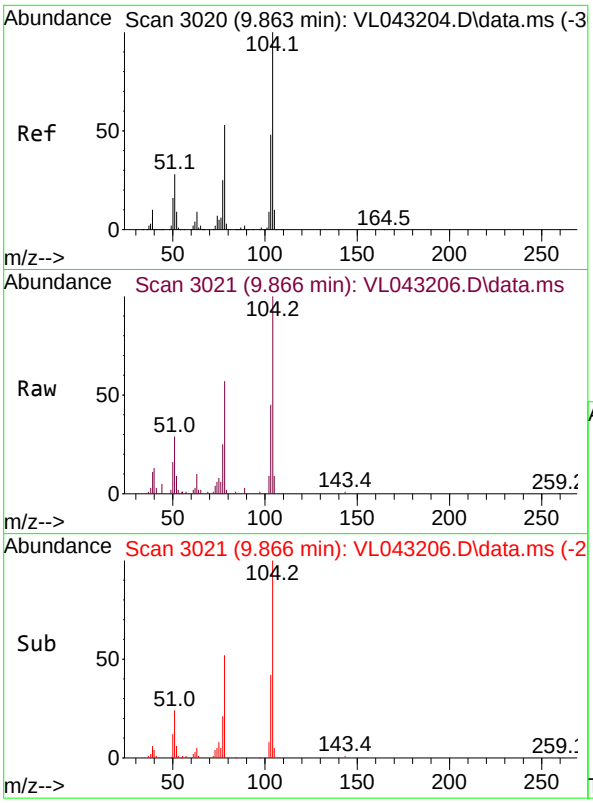


#60
o-Xylene
Concen: 1.054 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 37054

Ion	Ratio	Lower	Upper
91	100		
106	44.1	20.9	62.8

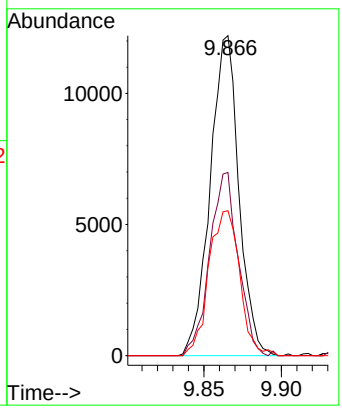




#61
Styrene
Concen: 1.023 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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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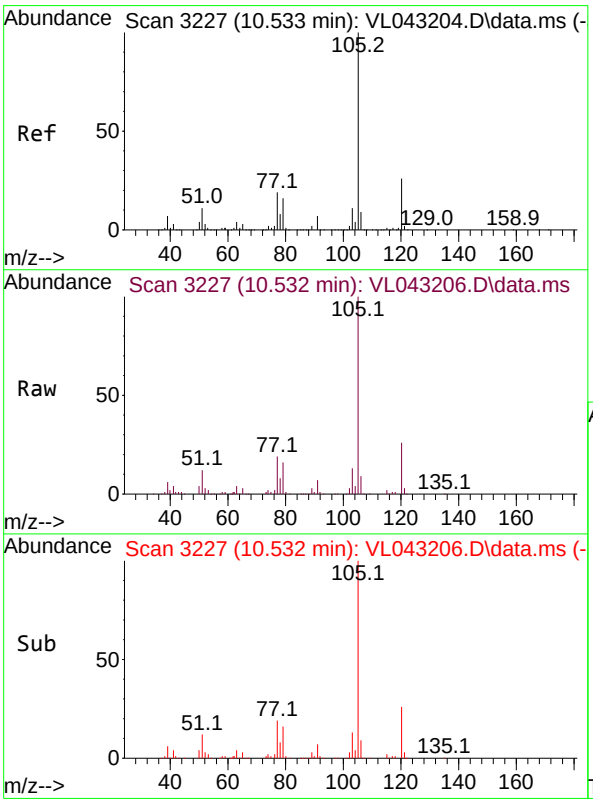
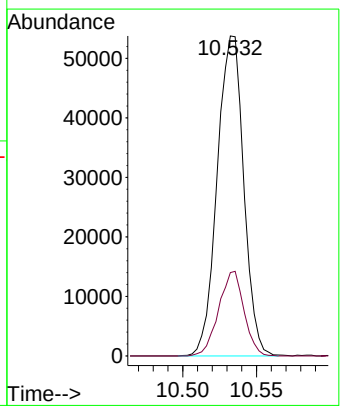
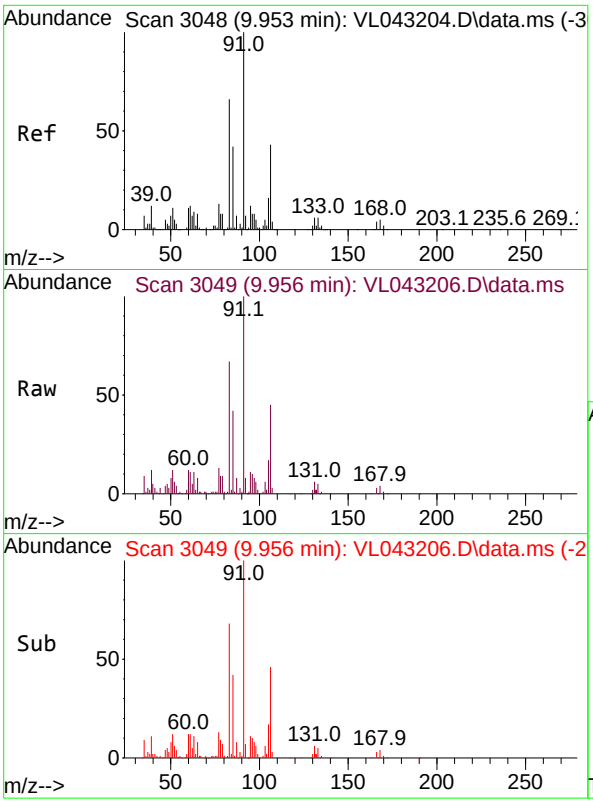


#62
Isopropylbenzene
Concen: 1.068 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:105 Resp: 67163

Ion	Ratio	Lower	Upper
105	100		
120	25.2	19.8	29.8

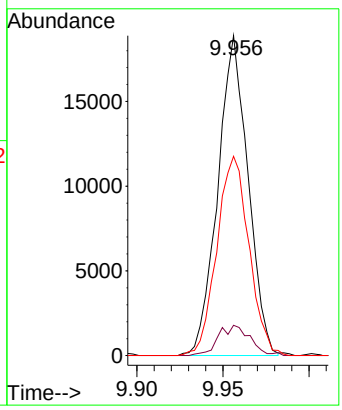




#63
1,1,2,2-Tetrachloroethane
Concen: 1.035 ppbv
RT: 9.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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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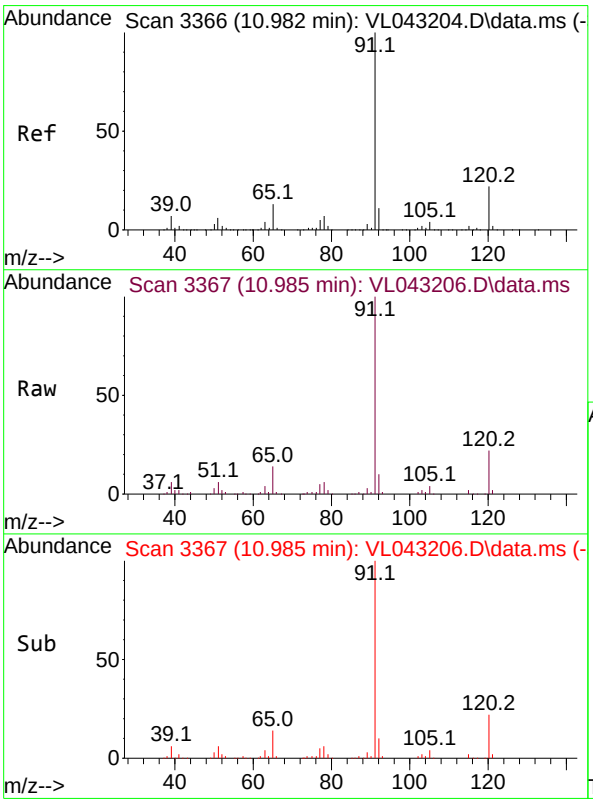
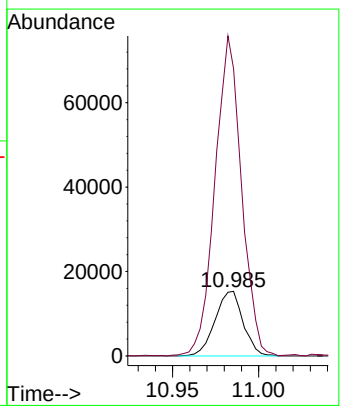
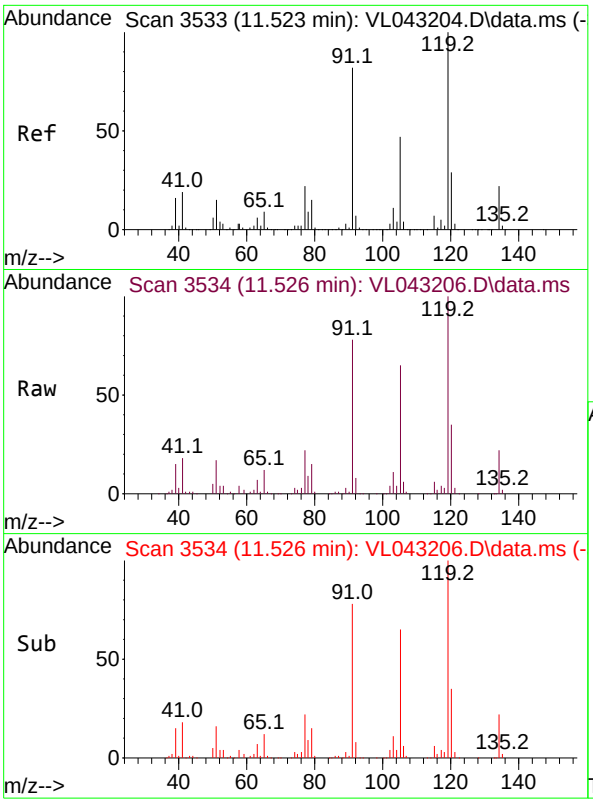


#64
n-propylbenzene
Concen: 1.070 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:120 Resp: 17289

Ion	Ratio	Lower	Upper
120	100		
91	471.4	377.1	565.7

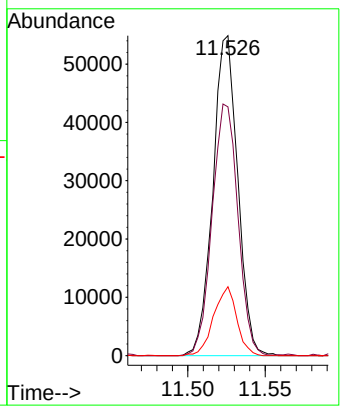




#65
tert-Butylbenzene
Concen: 1.091 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
MSVOA_L
ClientSampleId :
VSTDICC001

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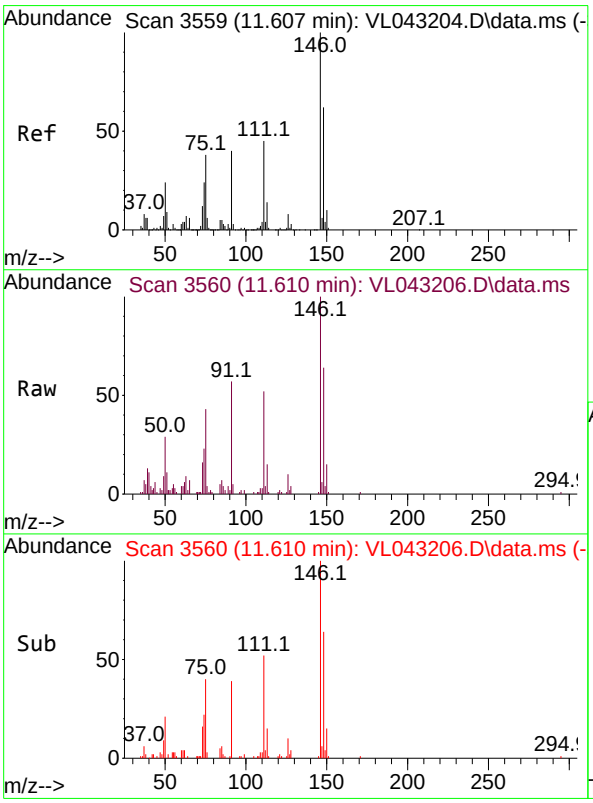
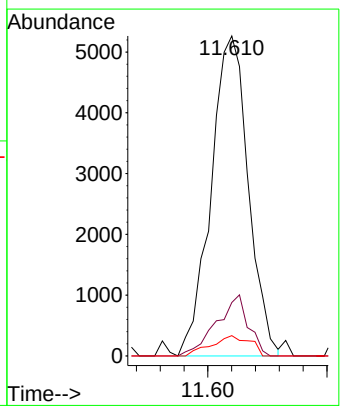
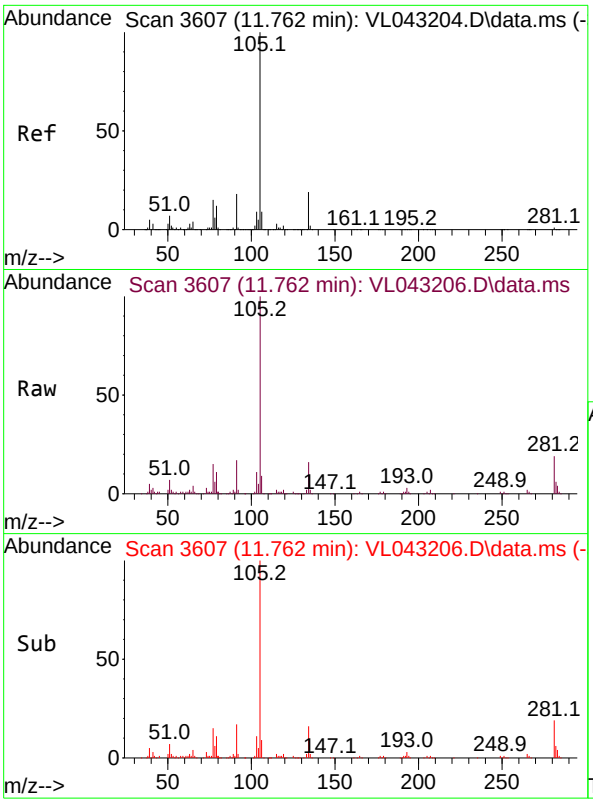


#66
Benzyl Chloride
Concen: 1.005 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

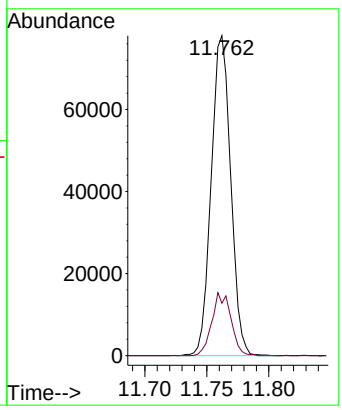




#67
sec-Butylbenzene
Concen: 1.084 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:105 Resp: 8498

Ion	Ratio	Lower	Upper
105	100		
134	19.3	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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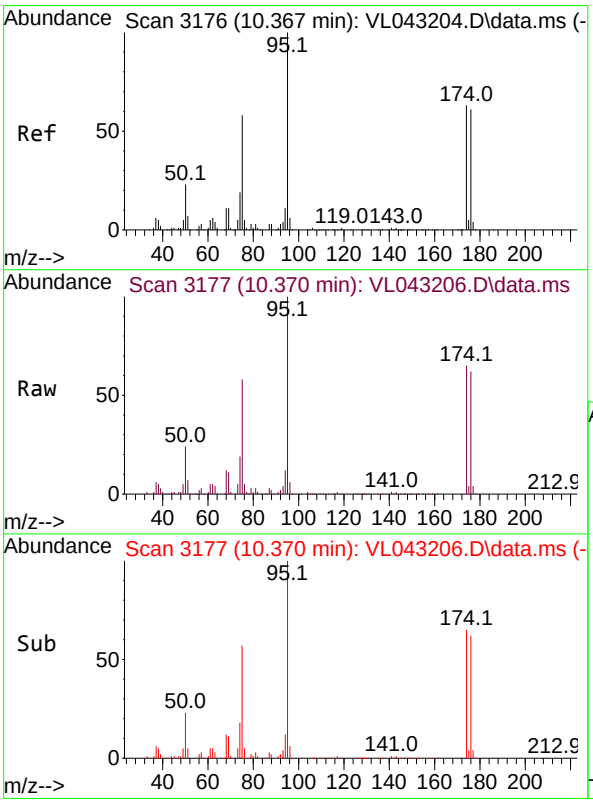
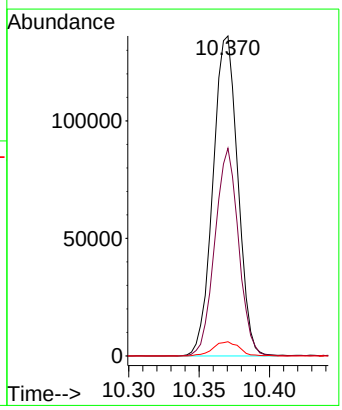
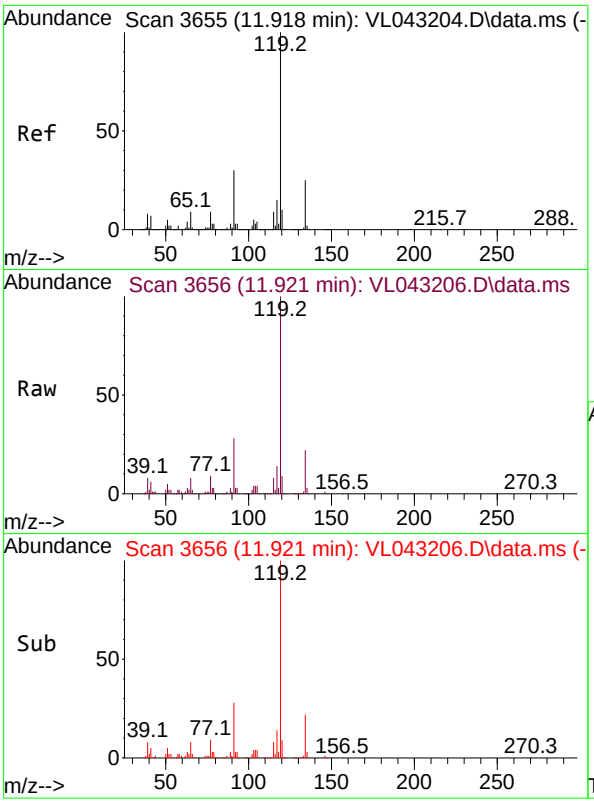


#68
1-Bromo-4-Fluorobenzene
Concen: 9.996 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

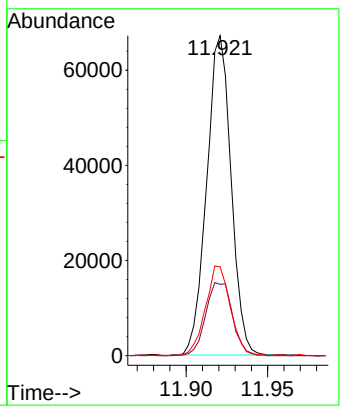




#69
p-Isopropyltoluene
Concen: 1.054 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
MSVOA_L
ClientSampleId :
VSTDICC001

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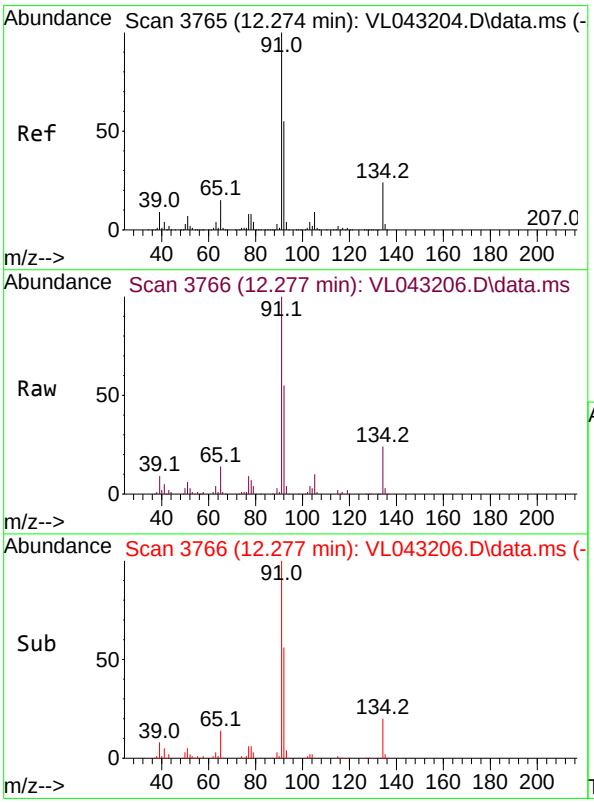
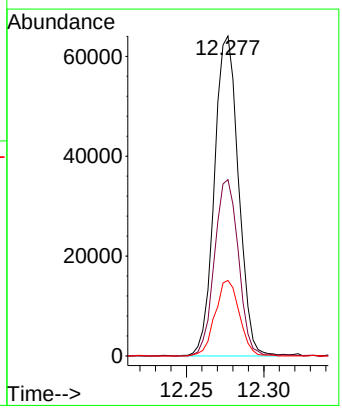
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

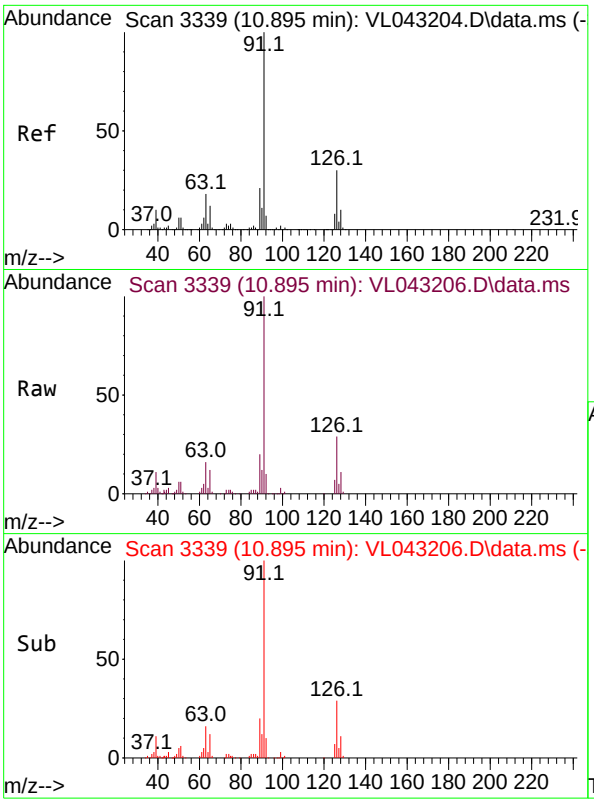


#70
n-Butylbenzene
Concen: 1.076 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

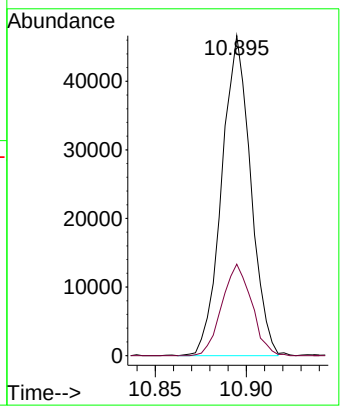




#71
2-Chlorotoluene
Concen: 1.065 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 5145

Ion	Ratio	Lower	Upper
91	100		
126	29.3	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/19/2025
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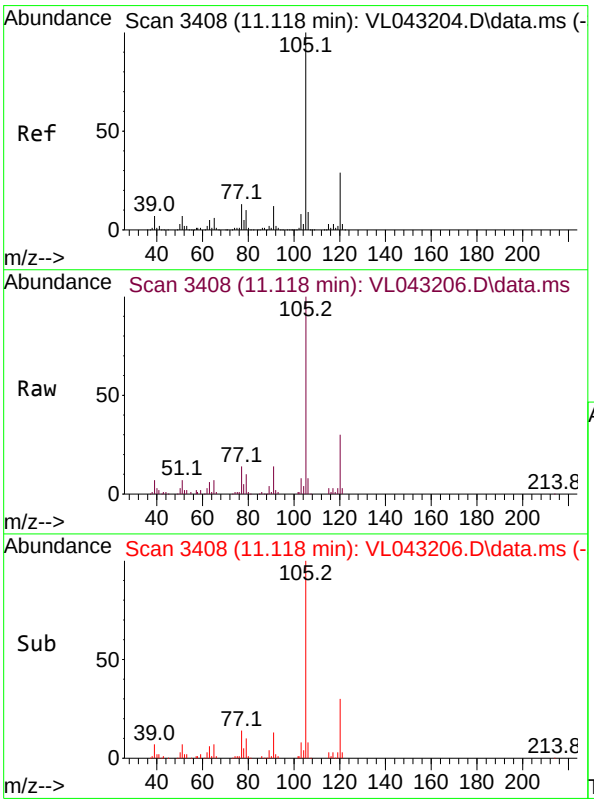
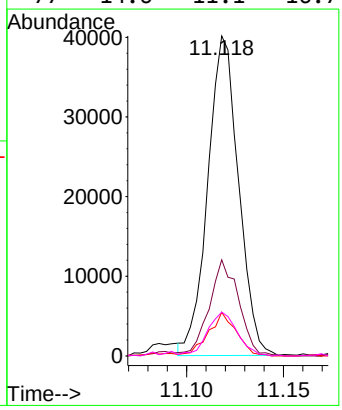
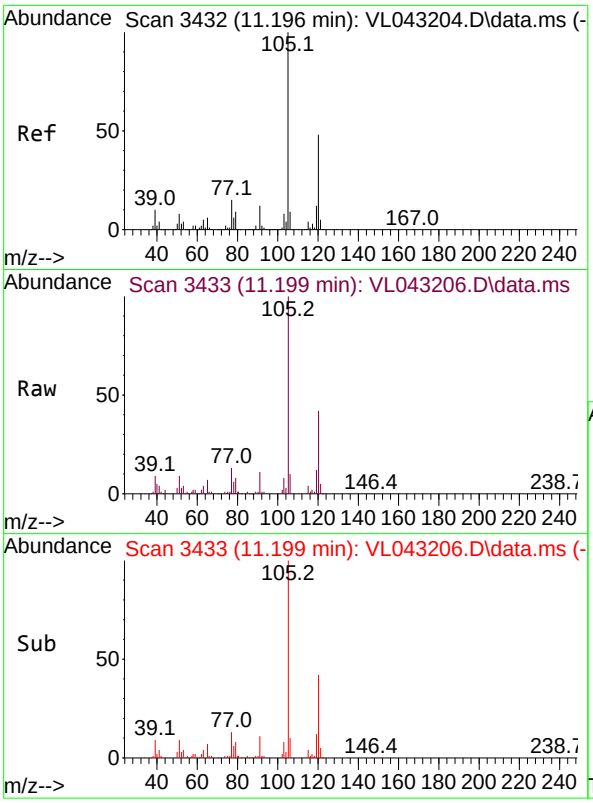


#72
4-Ethyltoluene
Concen: 1.037 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

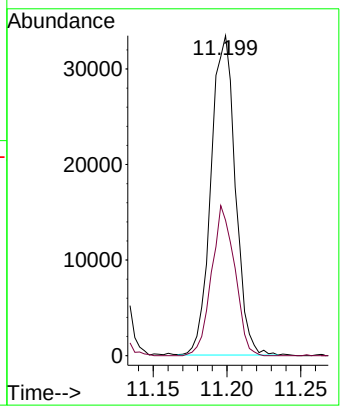




#73
1,3,5-Trimethylbenzene
Concen: 1.068 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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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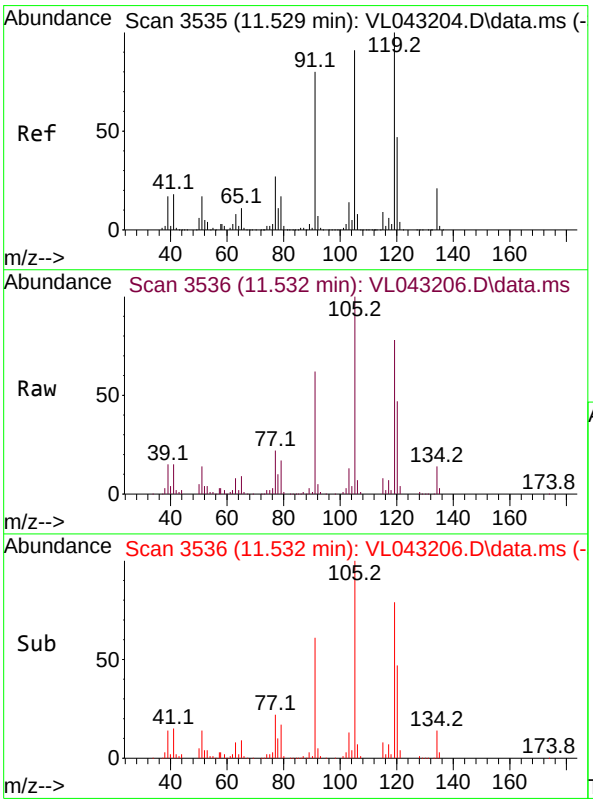
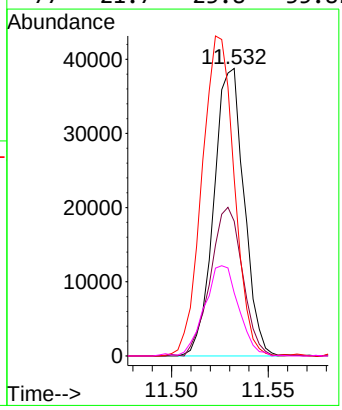
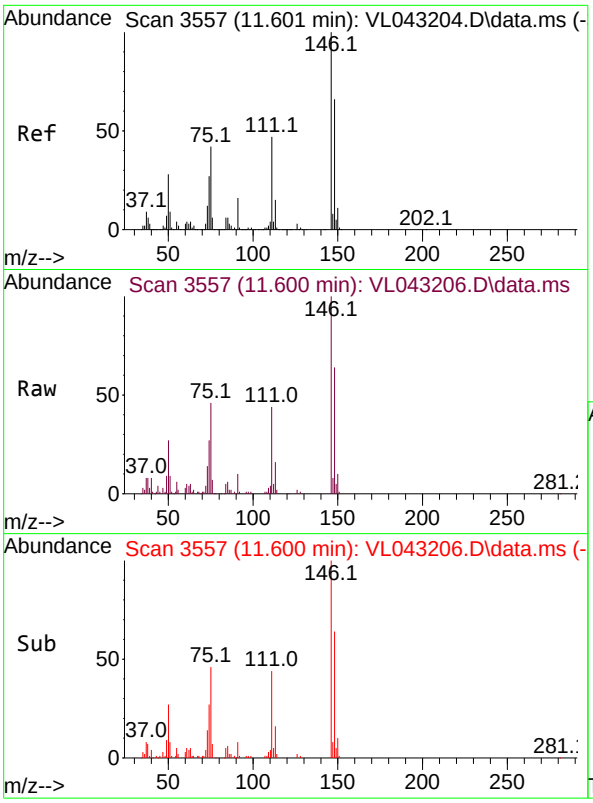


#74
1,2,4-Trimethylbenzene
Concen: 1.073 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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#

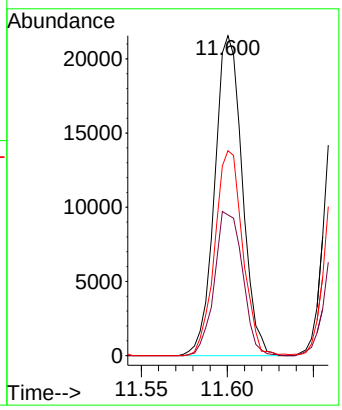




#75
1,3-Dichlorobenzene
Concen: 1.050 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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 :
VSTDICC001

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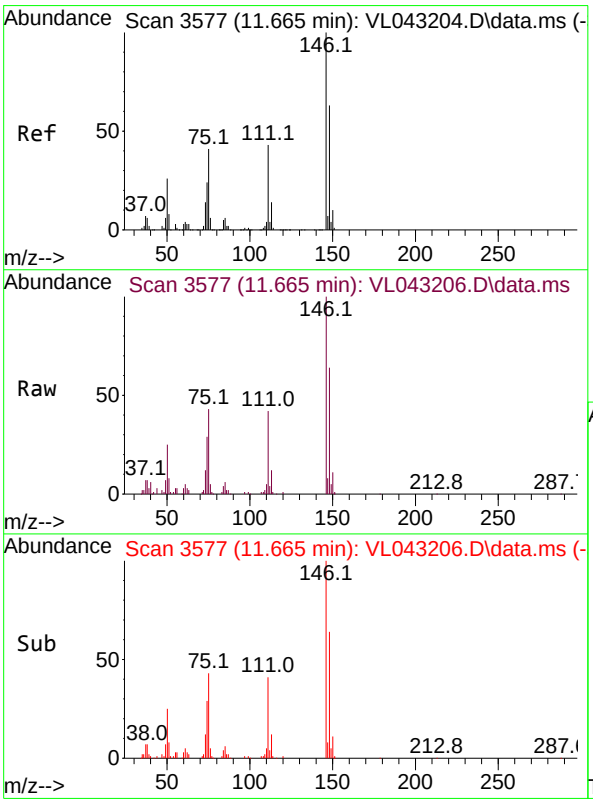
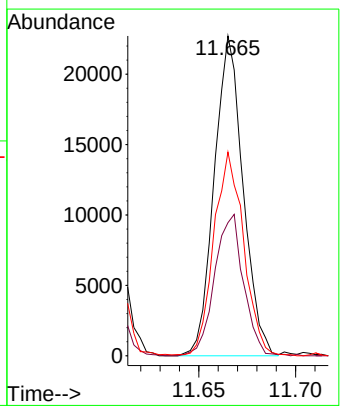
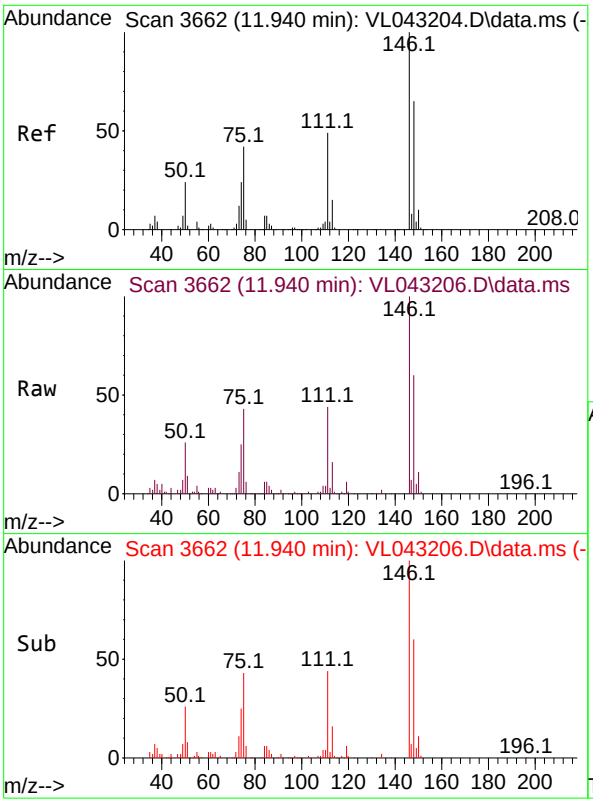


#76
1,4-Dichlorobenzene
Concen: 1.029 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

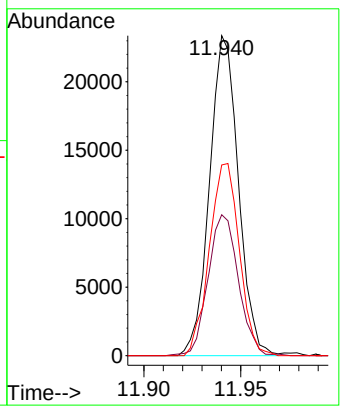




#77
1,2-Dichlorobenzene
Concen: 1.103 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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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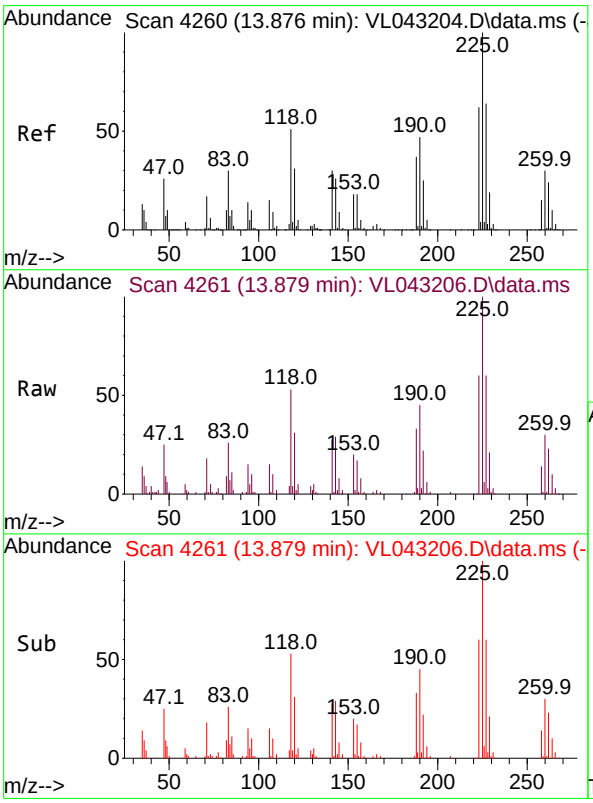
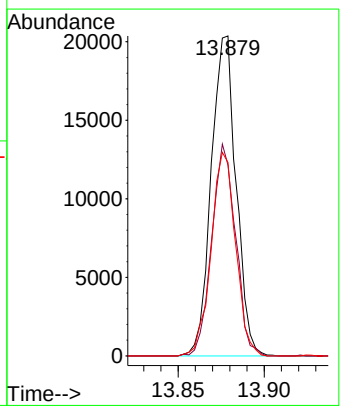
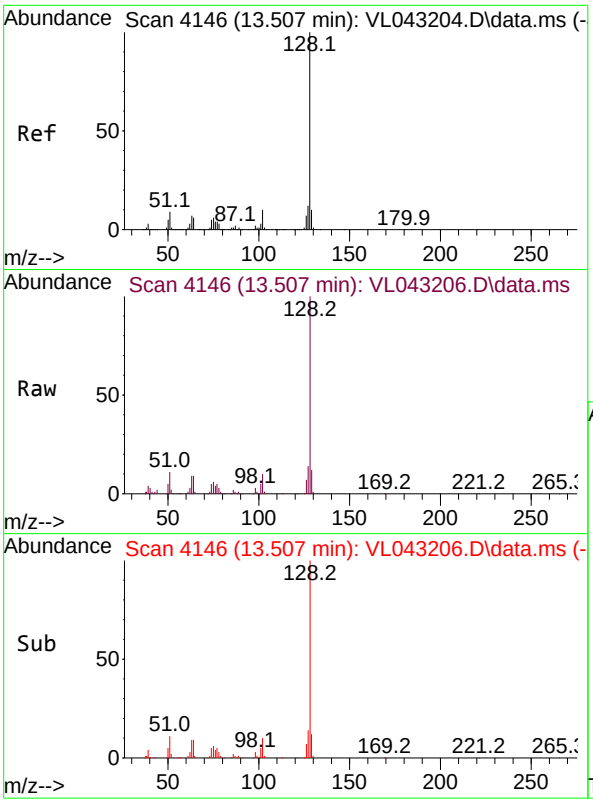


#78
Hexachloro-1,3-Butadiene
Concen: 1.116 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

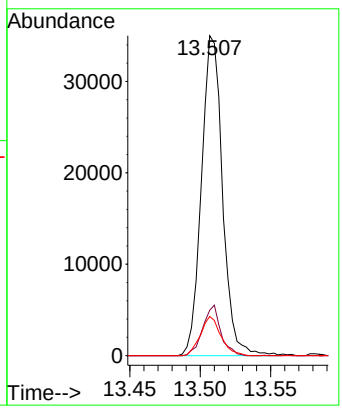




#79
Naphthalene
Concen: 1.047 ppbv
RT: 13.507 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

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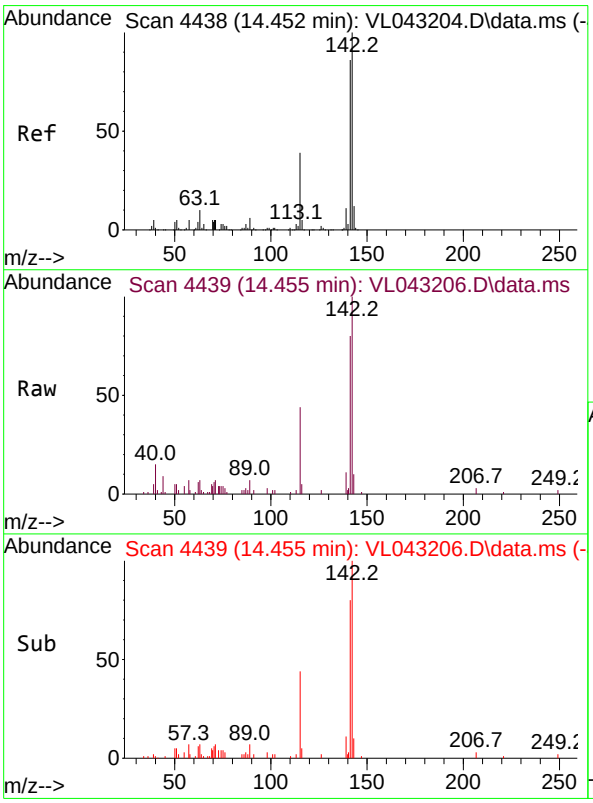
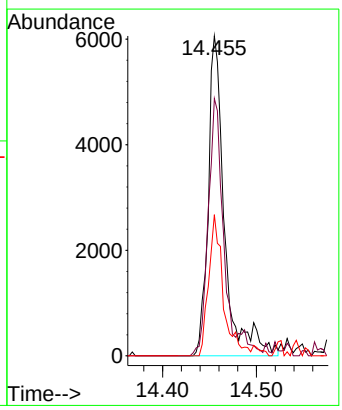
Supervised By :Mahesh Dadoda 11/19/2025

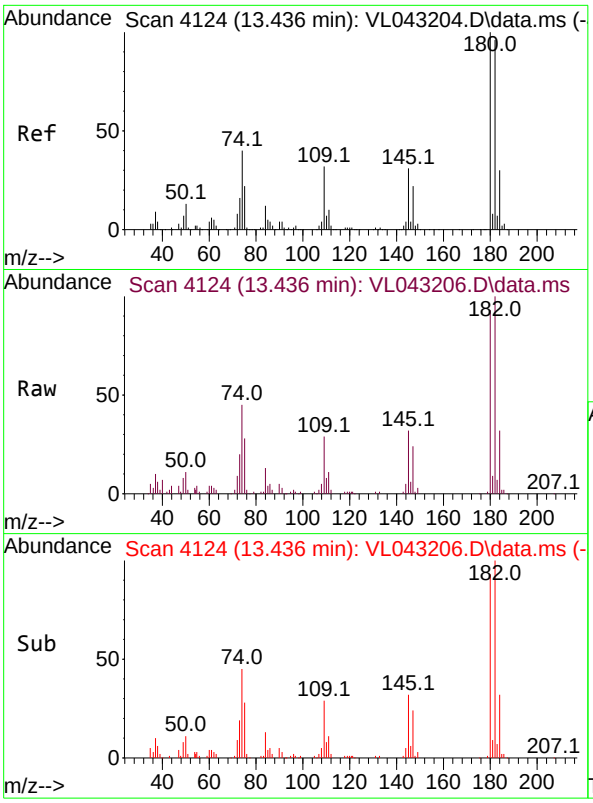


#80
Naphthalene,2-methyl-
Concen: 0.807 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

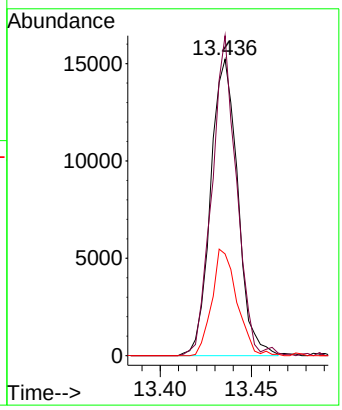




#81
1,2,4-Trichlorobenzene
Concen: 1.014 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

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
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
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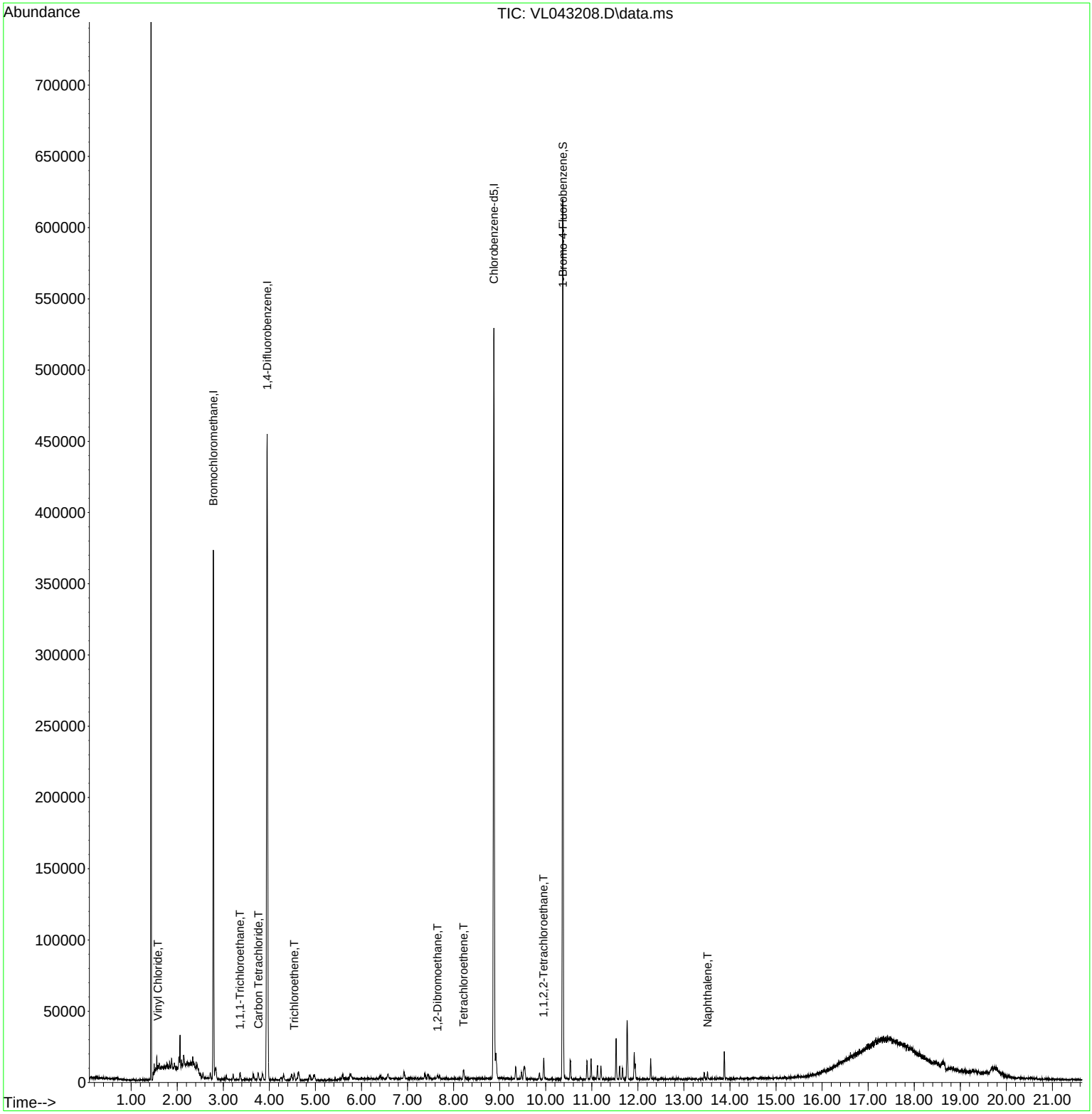
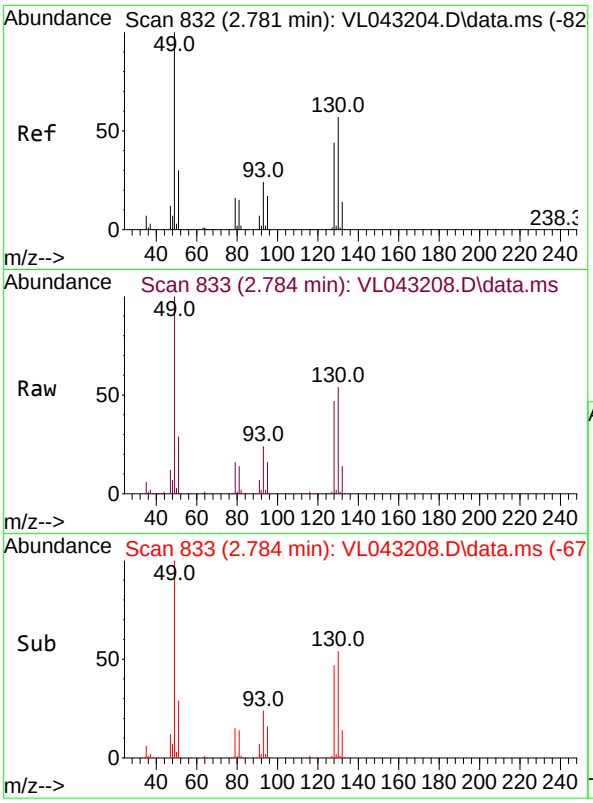
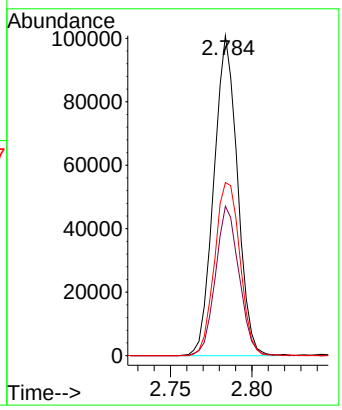




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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
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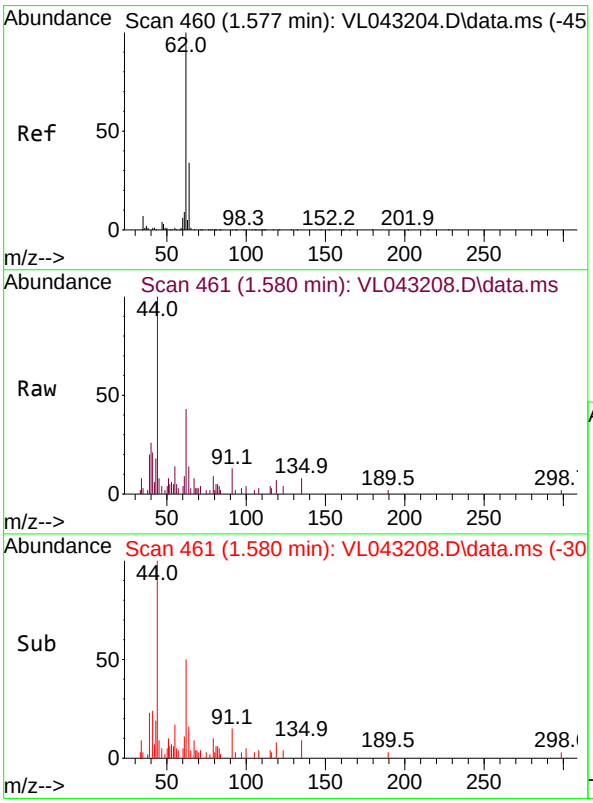
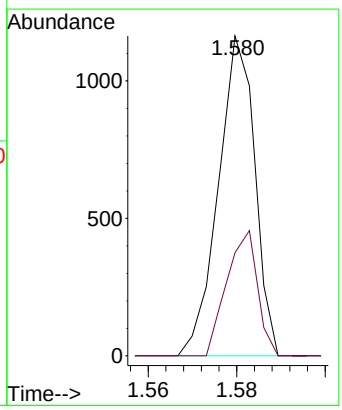
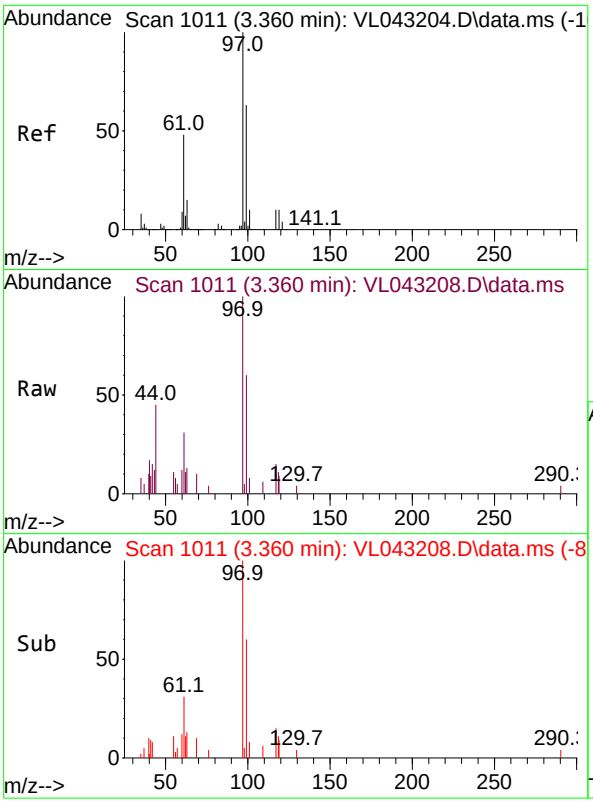


#5
Vinyl Chloride
Concen: 0.114 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 62 Resp: 664

Ion	Ratio	Lower	Upper
62	100		
64	32.2	27.3	40.9

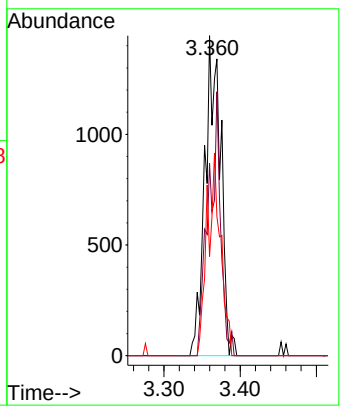




#32
1,1,1-Trichloroethane
Concen: 0.102 ppbv m
RT: 3.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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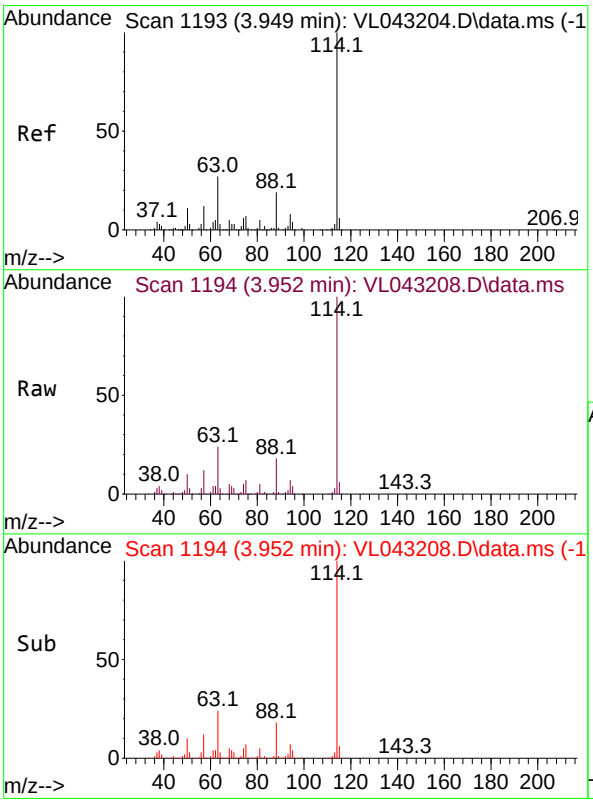
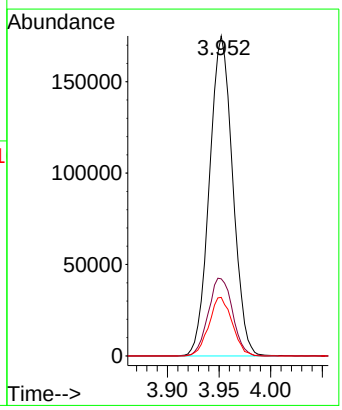
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

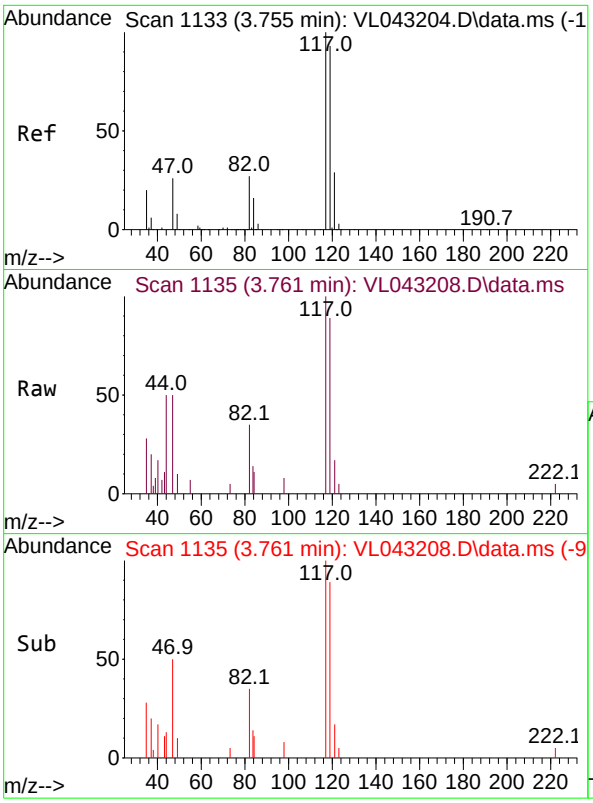


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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

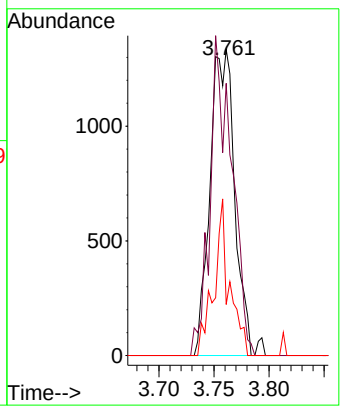




#35
Carbon Tetrachloride
Concen: 0.101 ppbv m
RT: 3.761 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:117 Resp: 209

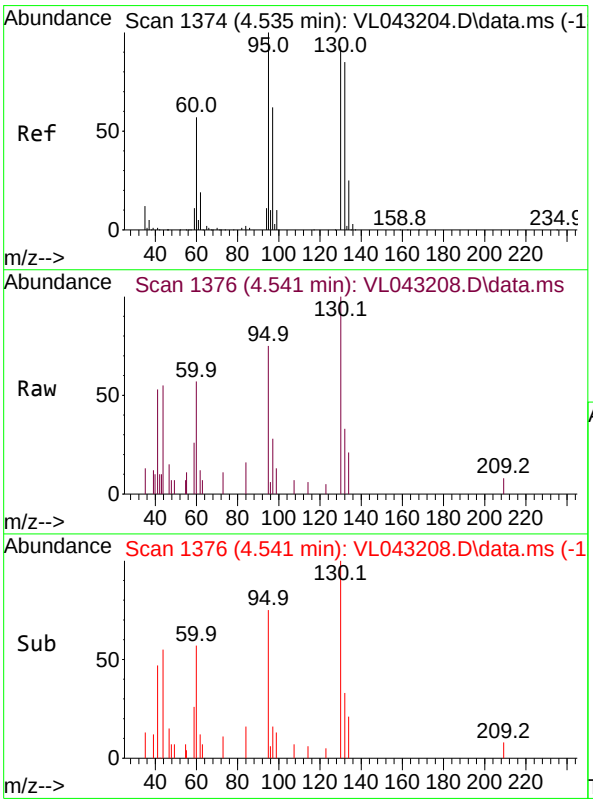
Ion	Ratio	Lower	Upper
117	100		
119	88.9	74.6	112.0
121	16.7	23.2	34.8#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

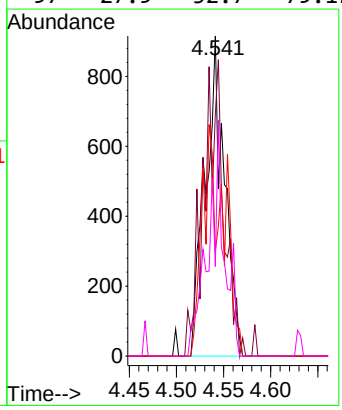
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

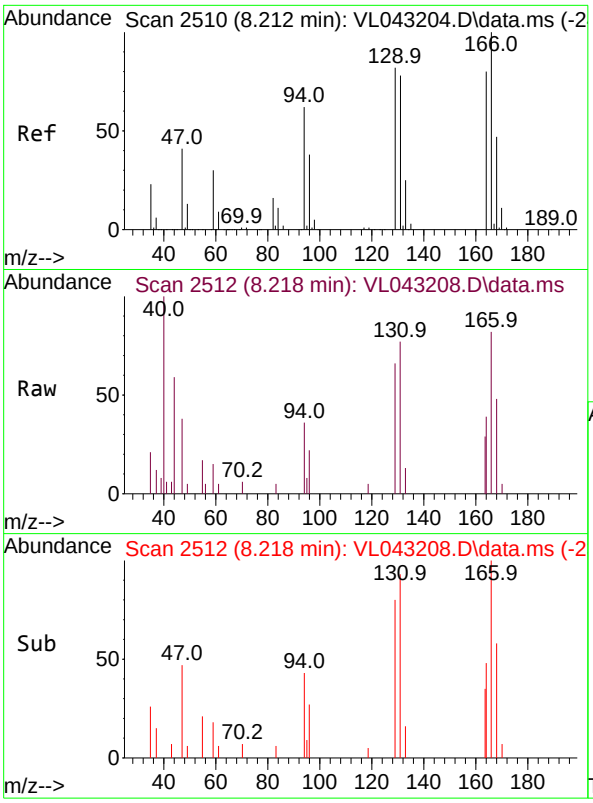


#38
Trichloroethene
Concen: 0.127 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

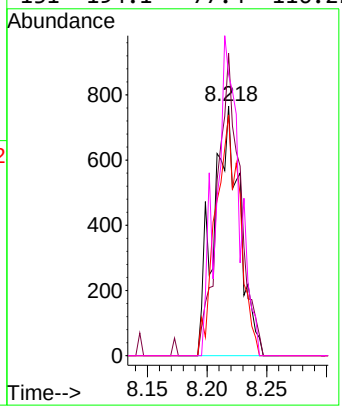




#52
Tetrachloroethene
Concen: 0.119 ppbv m
RT: 8.218 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:164 Resp: 116

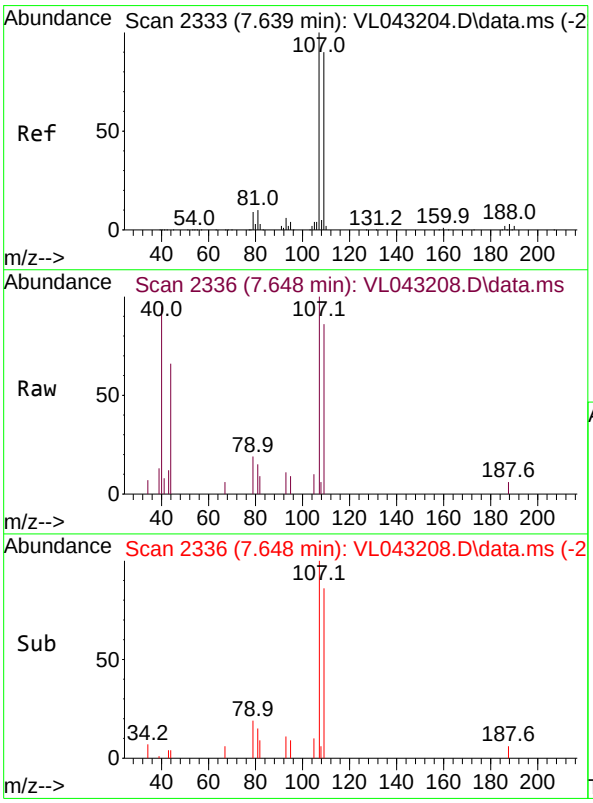
Ion	Ratio	Lower	Upper
164	100		
166	209.0	99.4	149.2#
129	166.4	81.8	122.8#
131	194.1	77.4	116.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

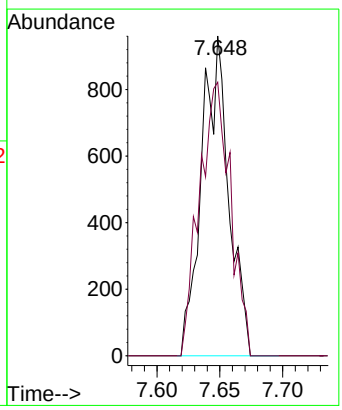
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

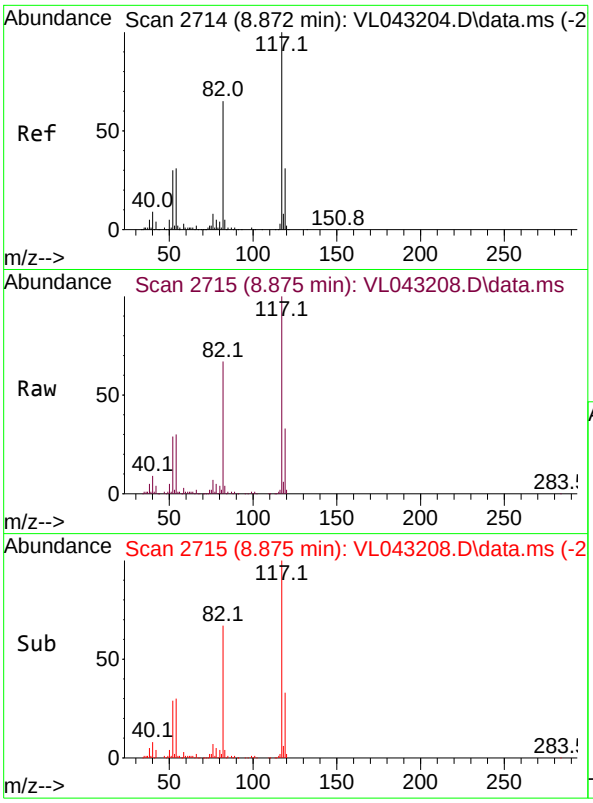


#54
1,2-Dibromoethane
Concen: 0.096 ppbv m
RT: 7.648 min Scan# 2336
Delta R.T. 0.009 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:107 Resp: 1446

Ion	Ratio	Lower	Upper
107	100		
109	85.5	72.1	108.1

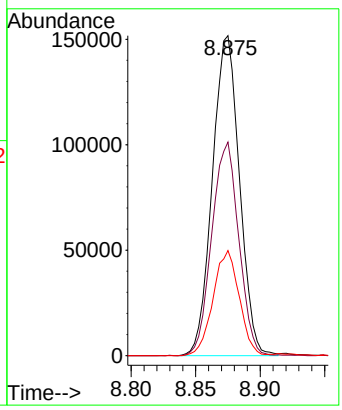




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:117 Resp: 22203

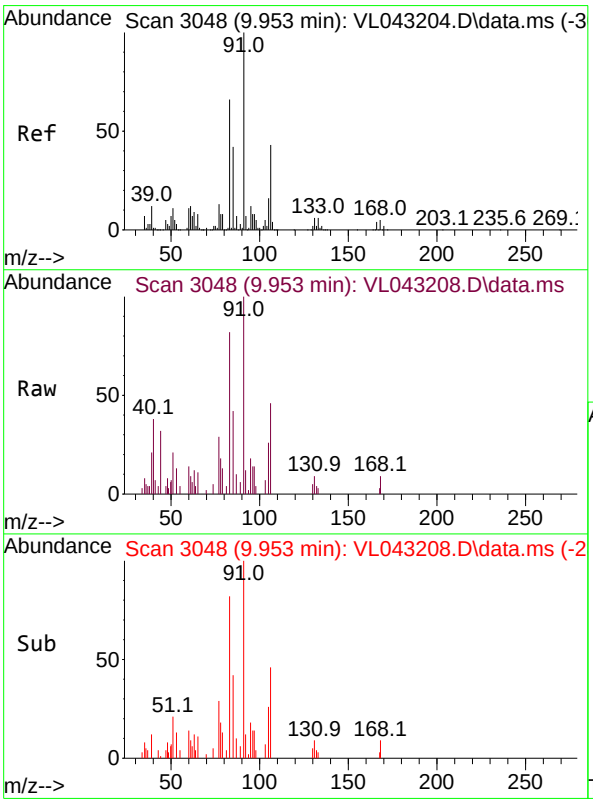
Ion	Ratio	Lower	Upper
117	100		
82	66.4	56.1	84.1
119	32.2	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

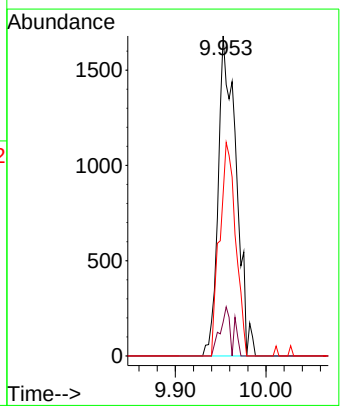
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

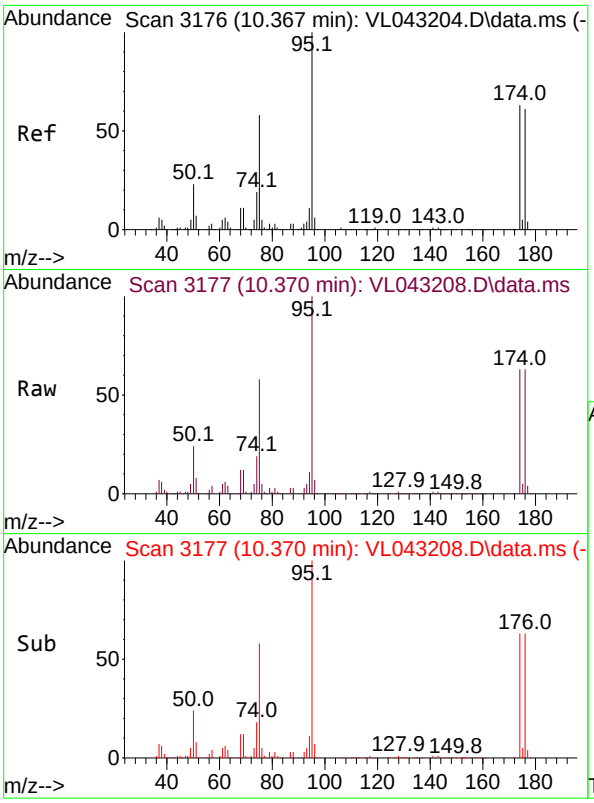


#63
1,1,2,2-Tetrachloroethane
Concen: 0.106 ppbv m
RT: 9.953 min Scan# 3048
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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

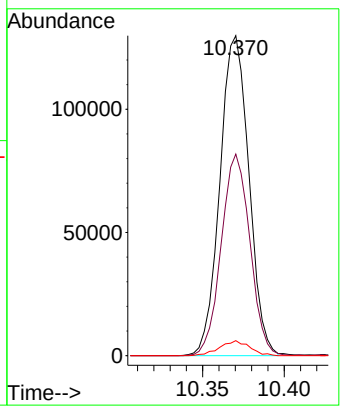




#68
1-Bromo-4-Fluorobenzene
Concen: 9.890 ppbv
RT: 10.370 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 95 Resp: 160968

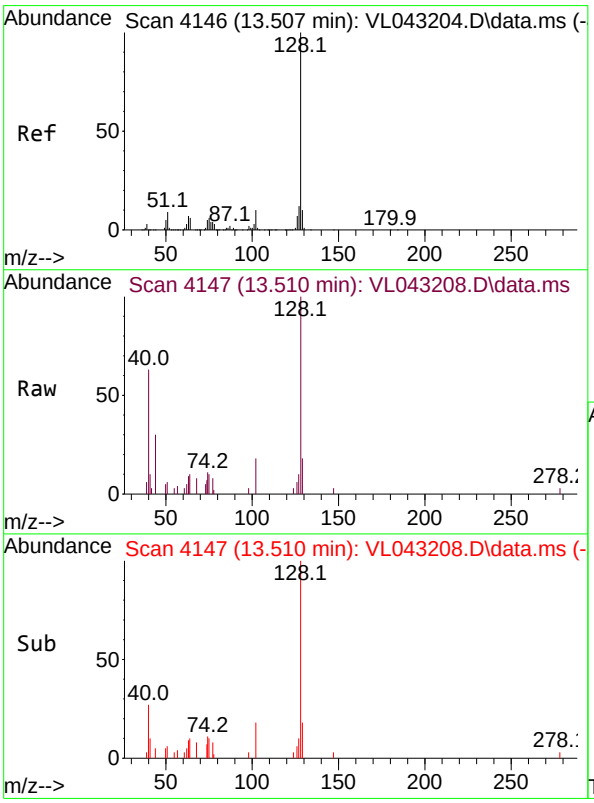
Ion	Ratio	Lower	Upper
95	100		
174	62.5	50.2	75.2
175	4.8	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

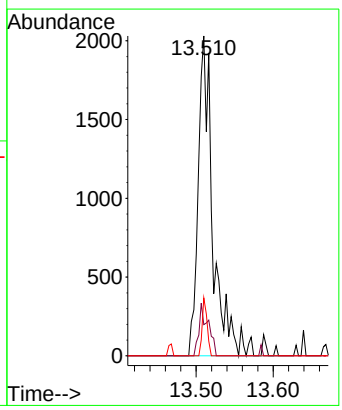
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#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

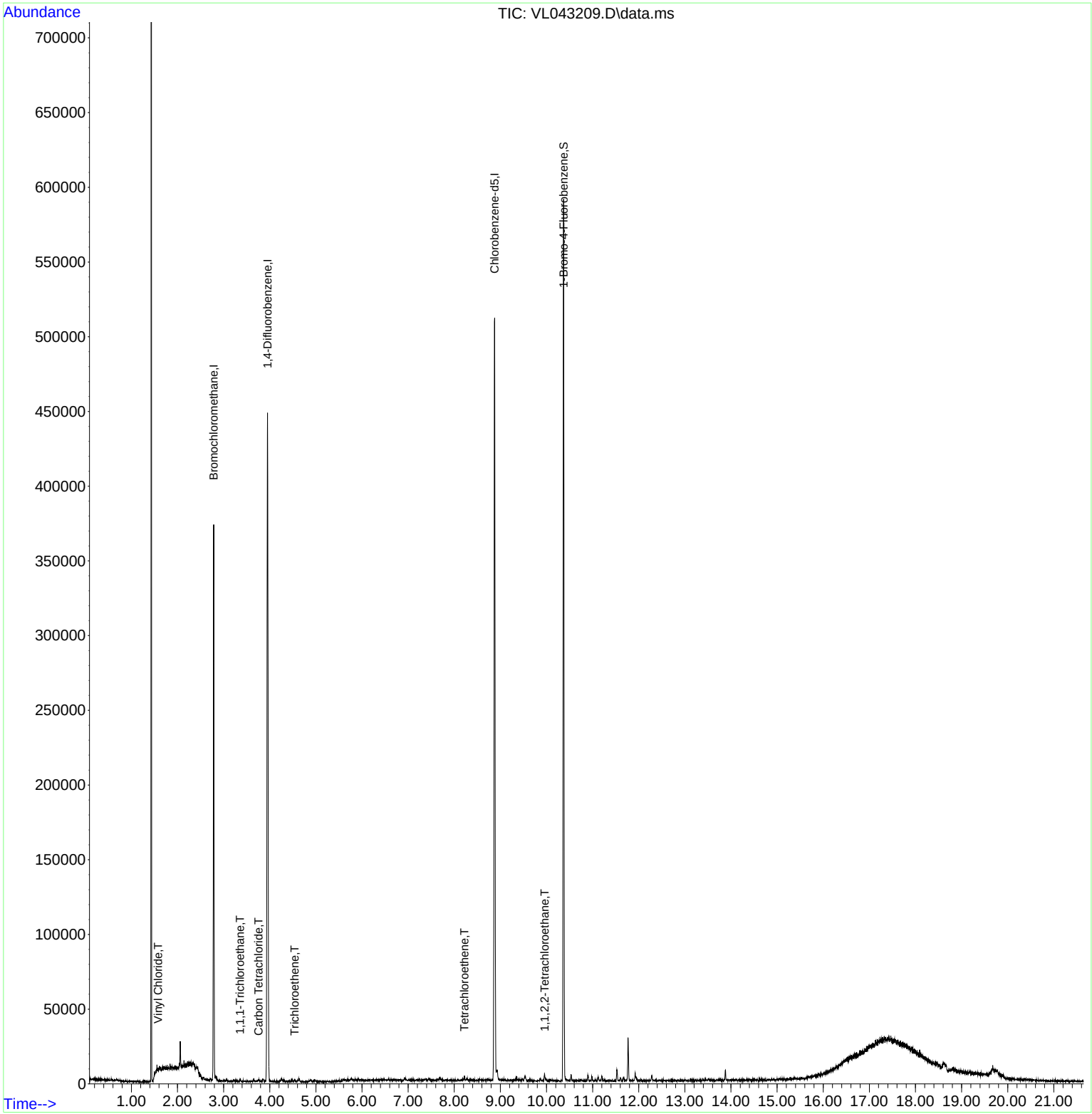
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043209.D
Acq On : 18 Nov 2025 12:49
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

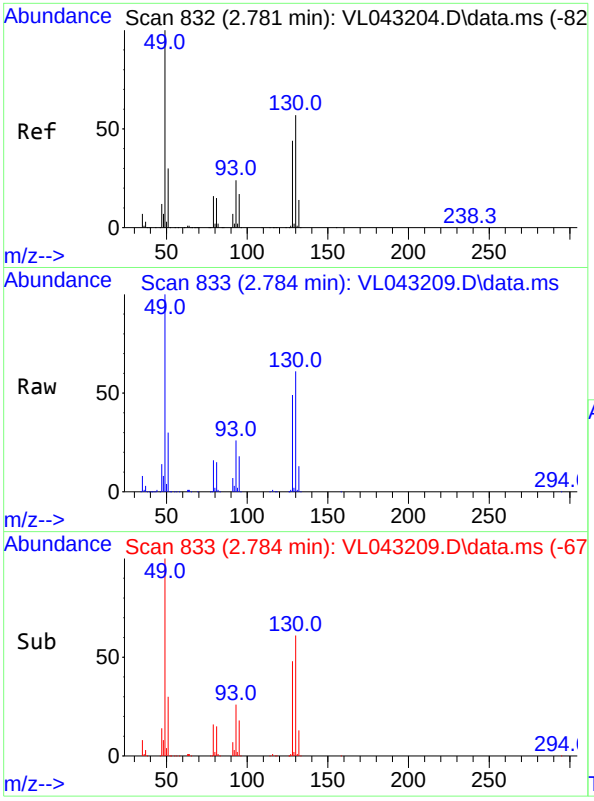
Quant Time: Nov 19 00:52:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

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

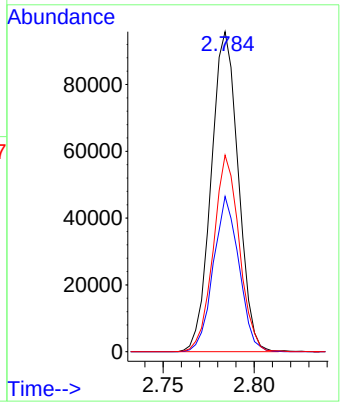




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 49 Resp: 9895

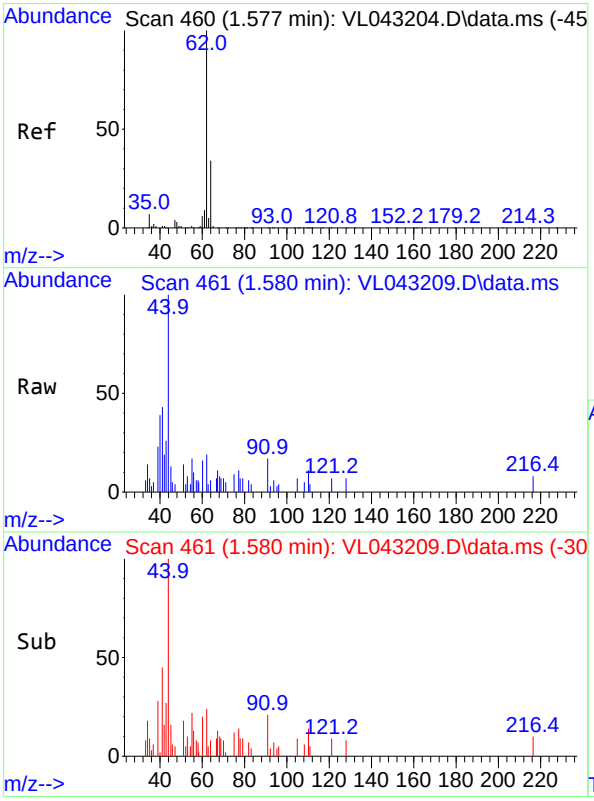
Ion	Ratio	Lower	Upper
49	100		
128	45.9	23.0	69.0
130	58.8	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

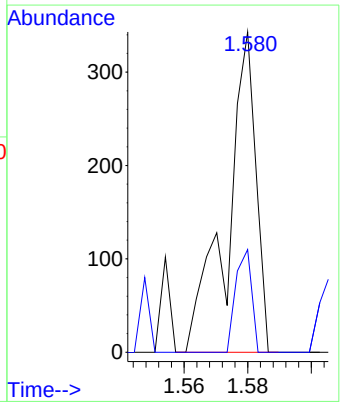
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

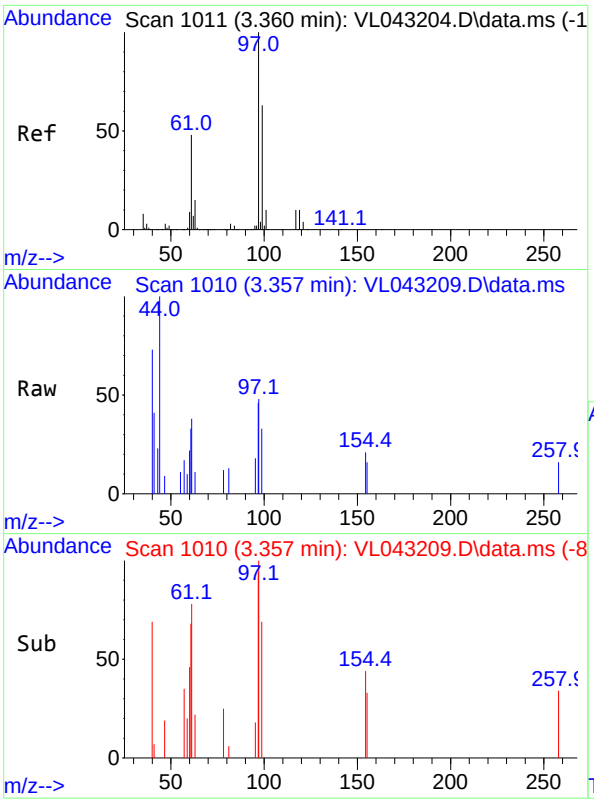


#5
Vinyl Chloride
Concen: 0.038 ppbv m
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 62 Resp: 215

Ion	Ratio	Lower	Upper
62	100		
64	32.1	27.3	40.9

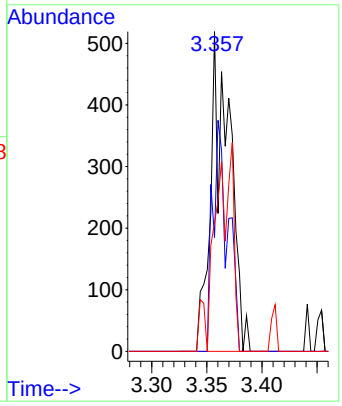




#32
1,1,1-Trichloroethane
Concen: 0.032 ppbv m
RT: 3.357 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 97 Resp: 62

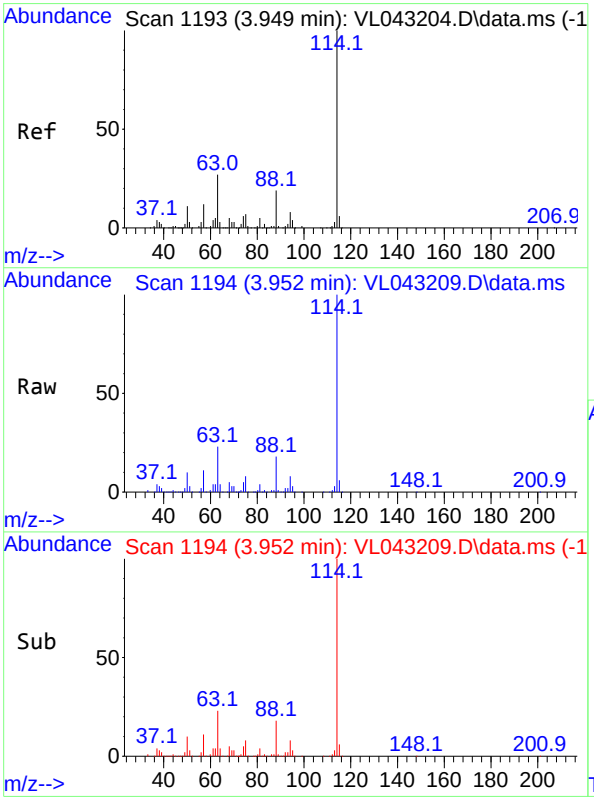
Ion	Ratio	Lower	Upper
97	100		
99	56.8	50.3	75.5
61	0.0	38.9	58.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

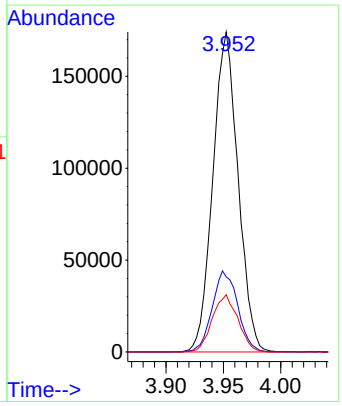
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

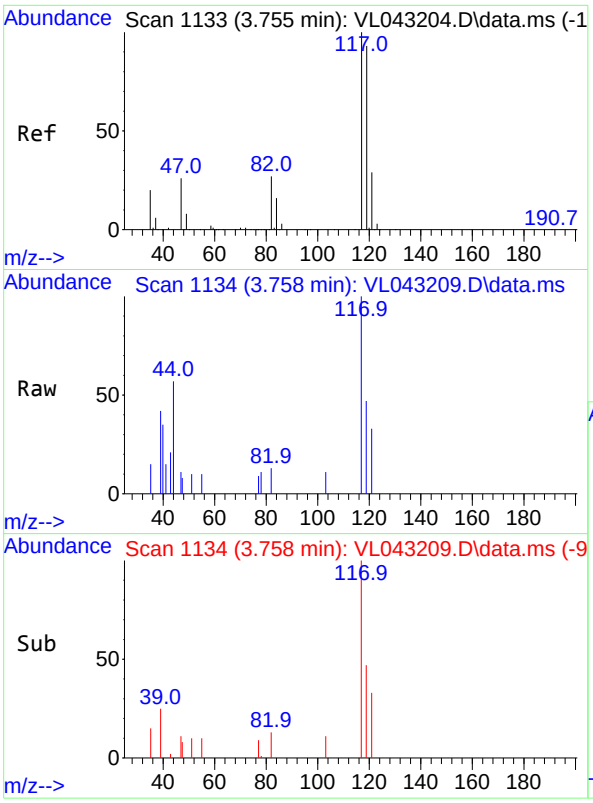


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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

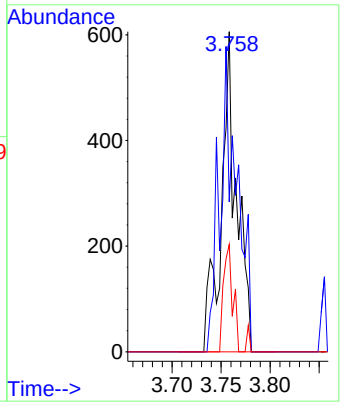




#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.758 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:117 Resp: 66

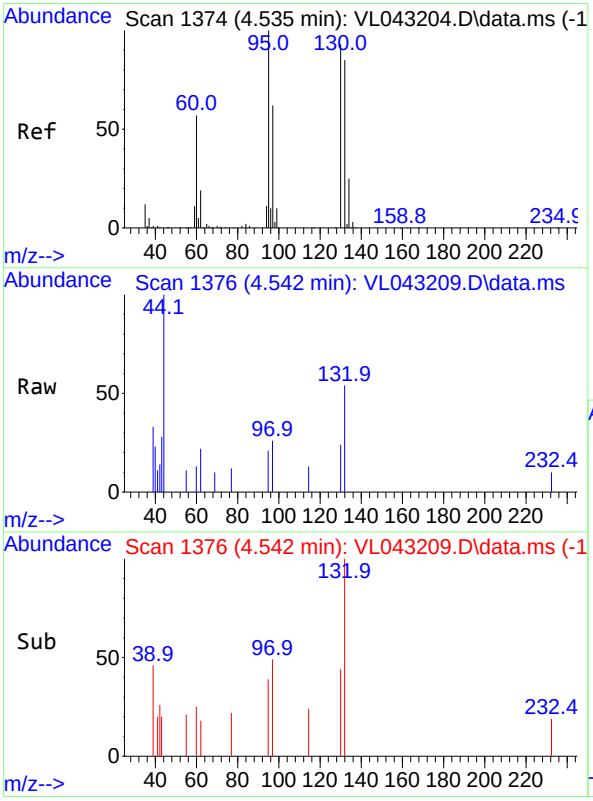
Ion	Ratio	Lower	Upper
117	100		
119	46.9	74.6	112.0#
121	33.5	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

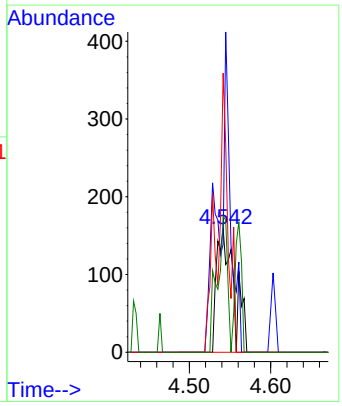
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

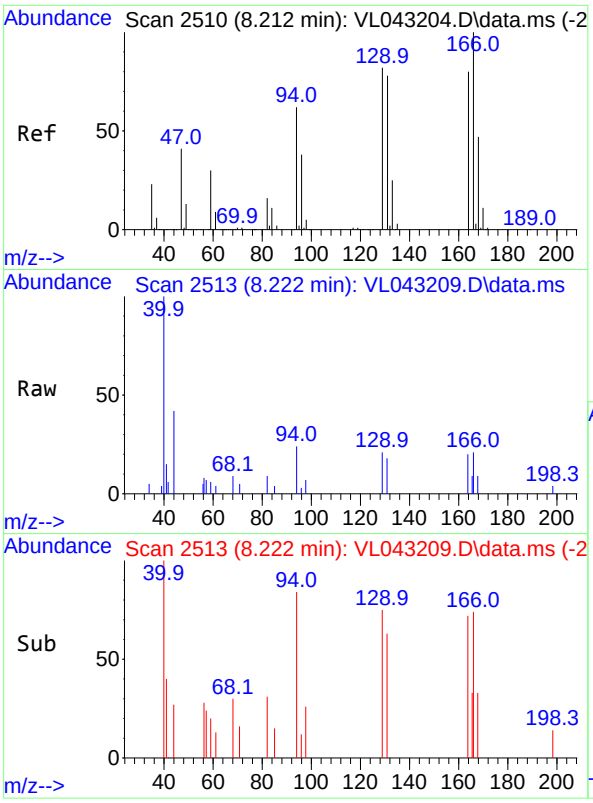


#38
Trichloroethene
Concen: 0.023 ppbv m
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

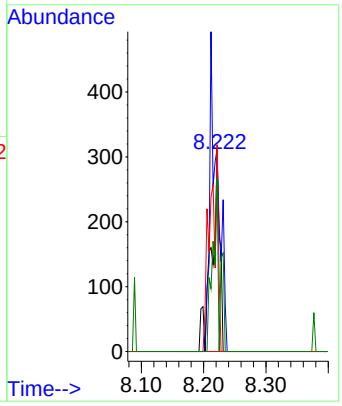




#52
Tetrachloroethene
Concen: 0.031 ppbv m
RT: 8.222 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:164 Resp: 29

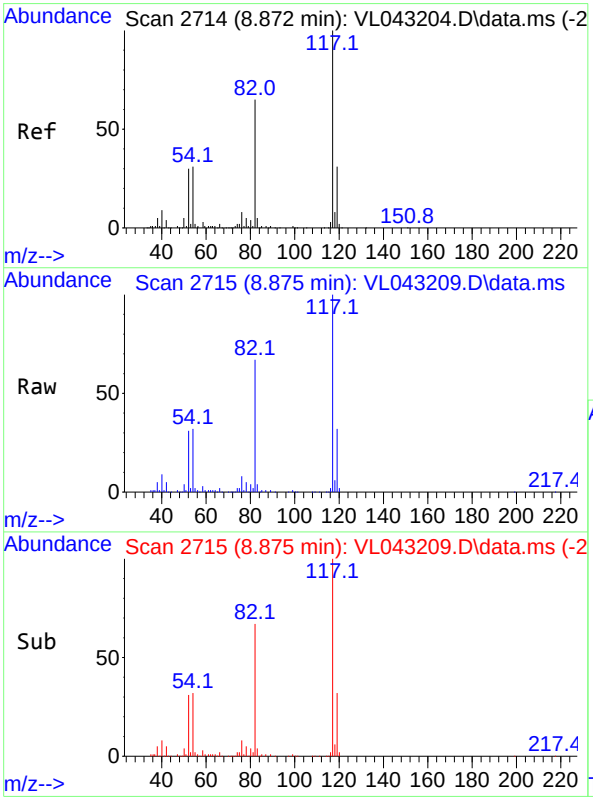
Ion	Ratio	Lower	Upper
164	100		
166	102.3	99.4	149.2
129	104.6	81.8	122.8
131	87.5	77.4	116.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

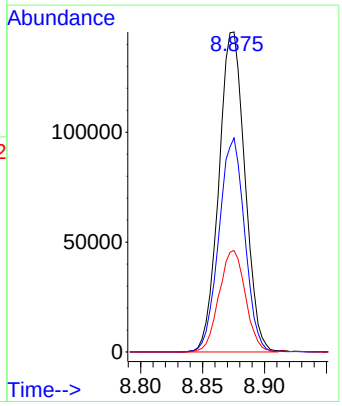
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

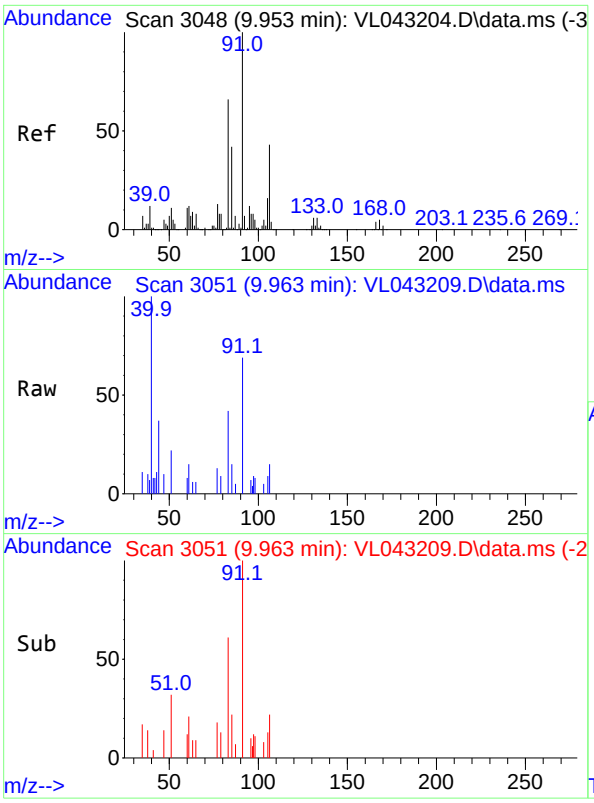


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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

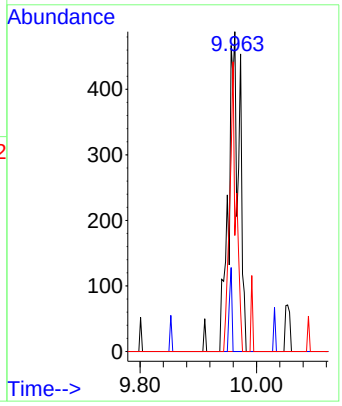




#63
1,1,2,2-Tetrachloroethane
Concen: 0.031 ppbv m
RT: 9.963 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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
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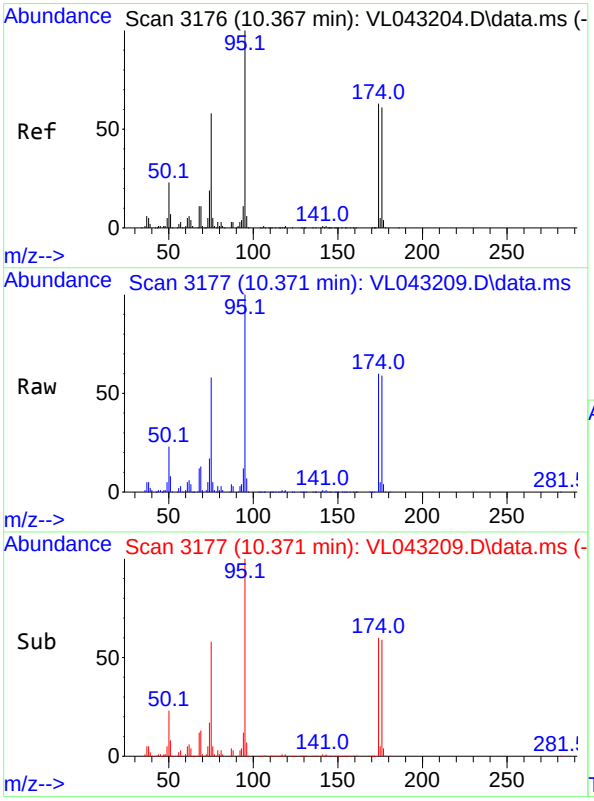
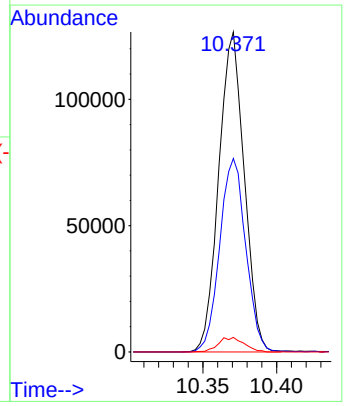
Supervised By :Mahesh Dadoda 11/19/2025



#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
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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

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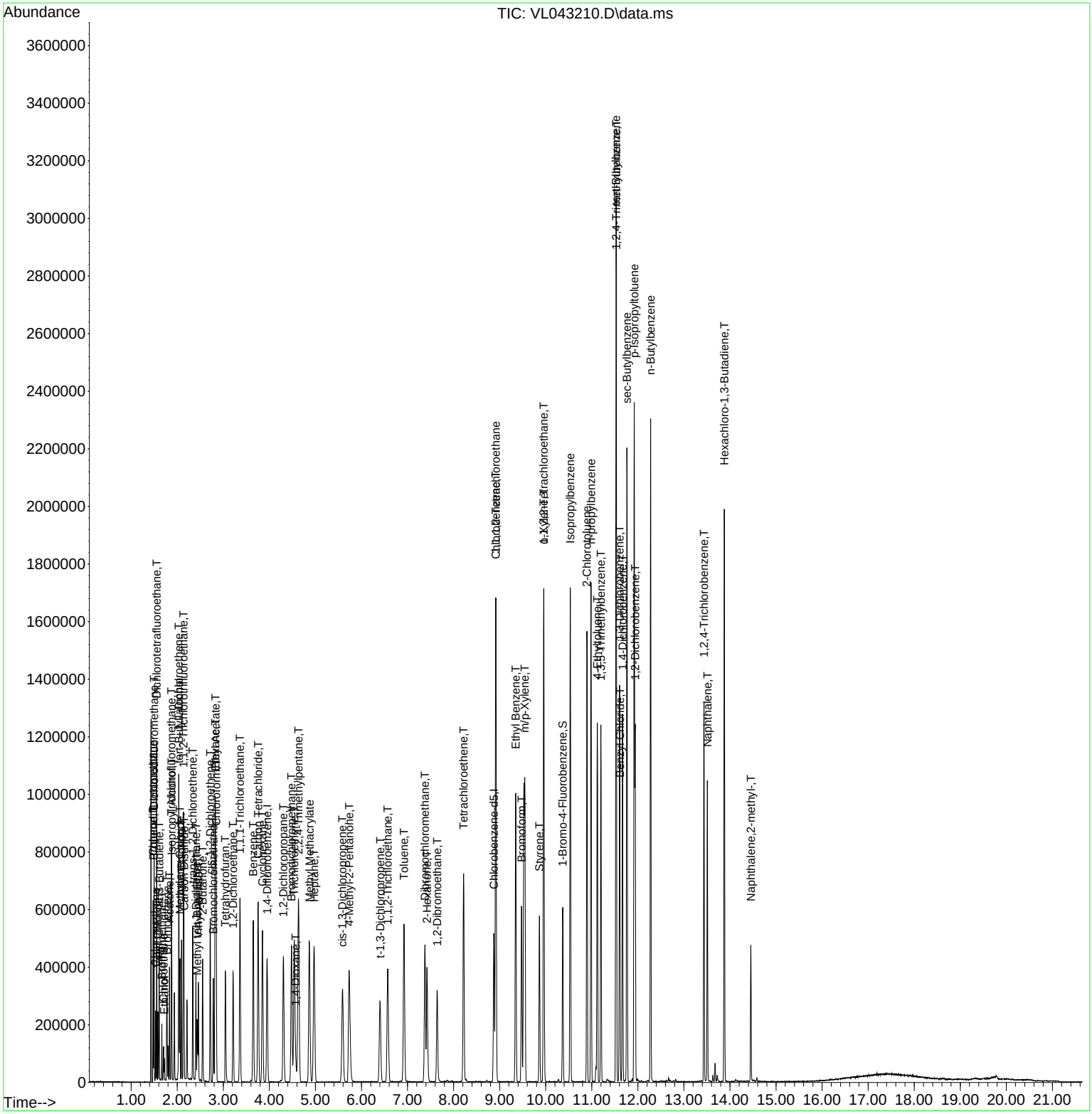
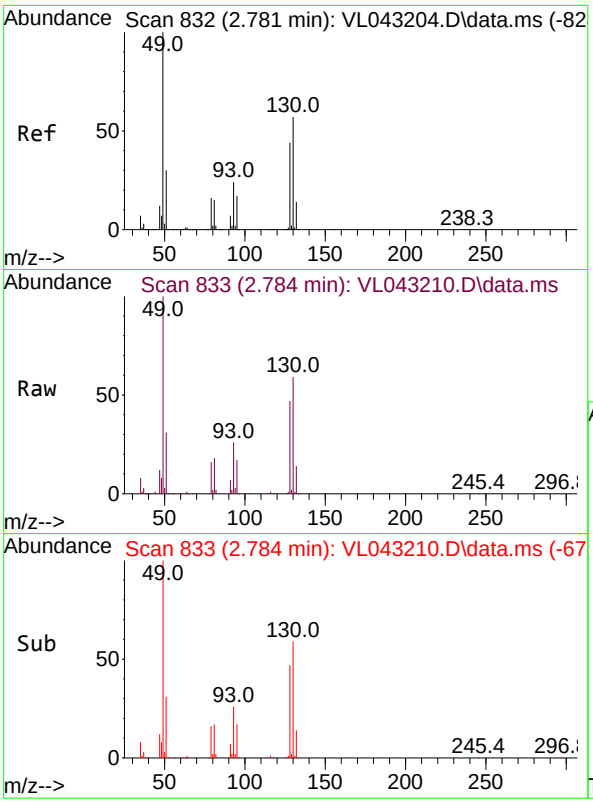
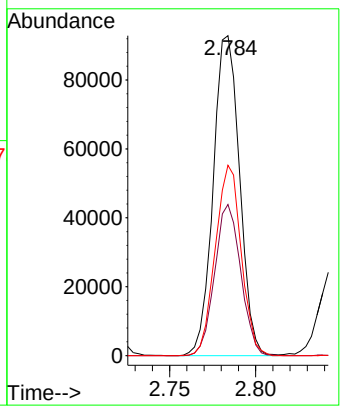




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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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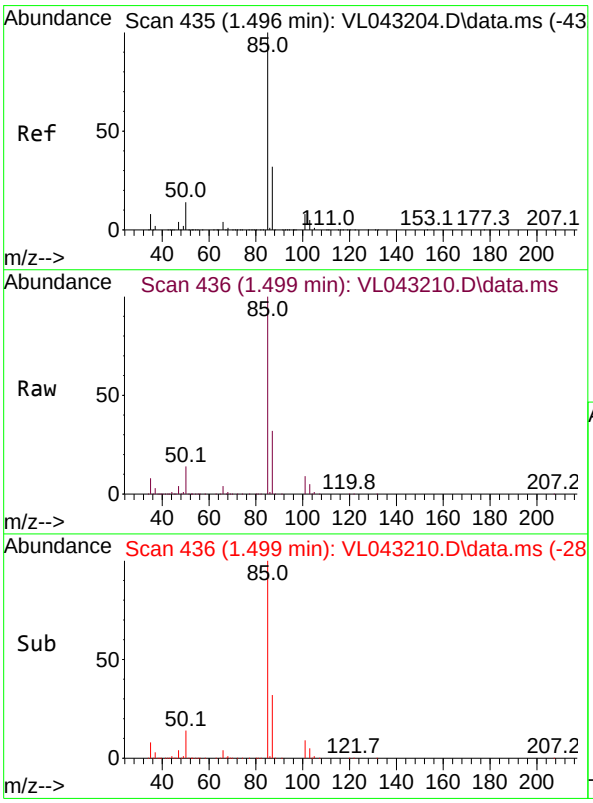
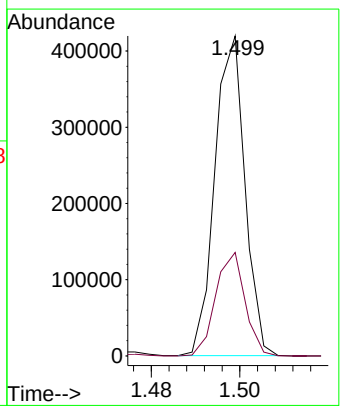
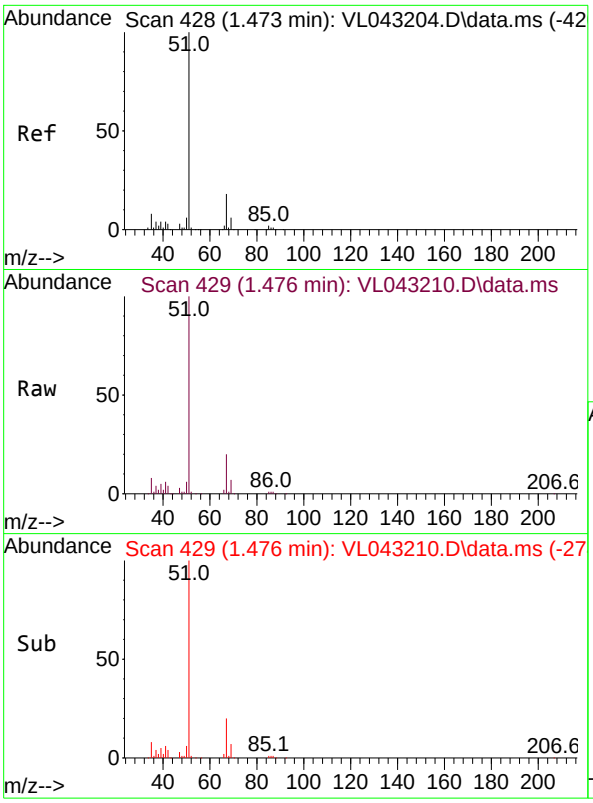


#2
Dichlorodifluoromethane
Concen: 14.184 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 85 Resp: 197987

Ion	Ratio	Lower	Upper
85	100		
87	32.4	25.4	38.2

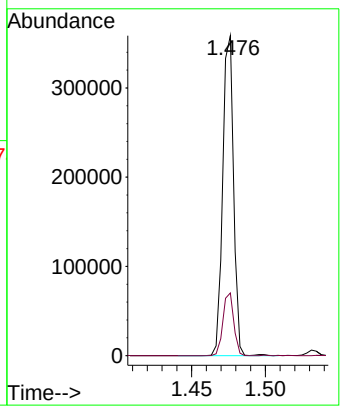




#3
Chlorodifluoromethane
Concen: 13.317 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 51 Resp: 18281

Ion	Ratio	Lower	Upper
51	100		
67	19.7	14.9	22.3



Instrument :
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ClientSampleId :
VSTDICC015

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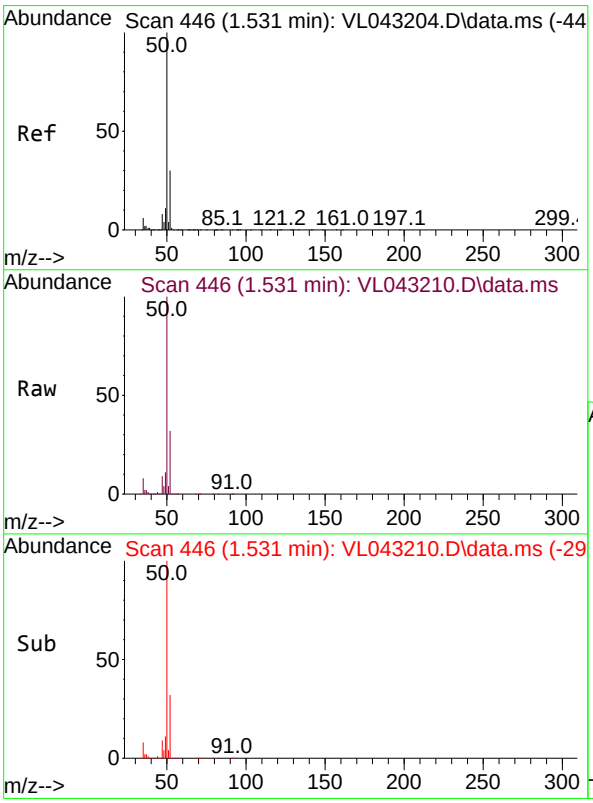
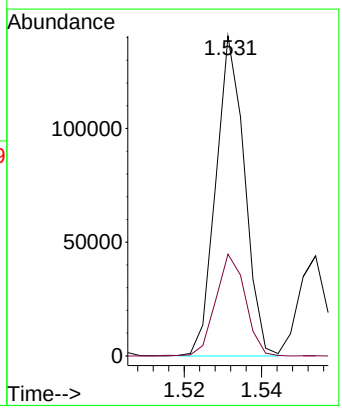
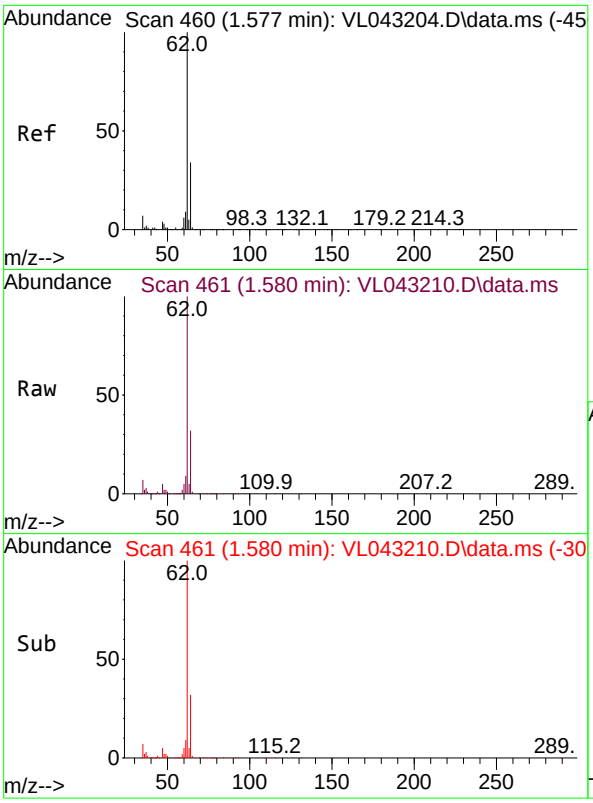


#4
Chloromethane
Concen: 13.918 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 50 Resp: 72636

Ion	Ratio	Lower	Upper
50	100		
52	31.7	24.1	36.1

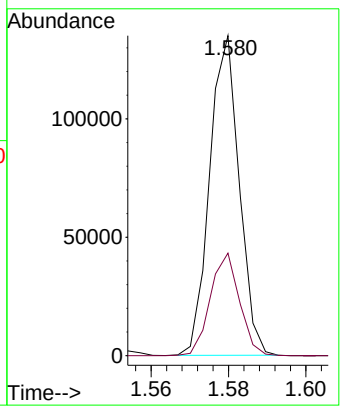




#5
Vinyl Chloride
Concen: 12.557 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 62 Resp: 7167

Ion	Ratio	Lower	Upper
62	100		
64	32.0	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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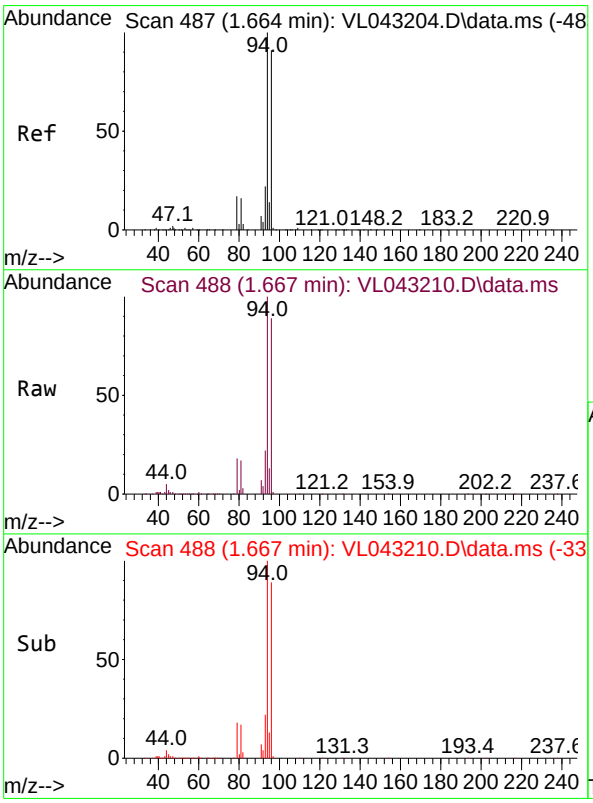
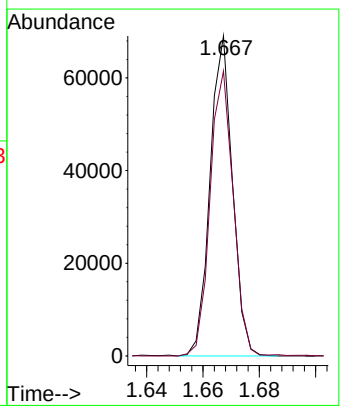
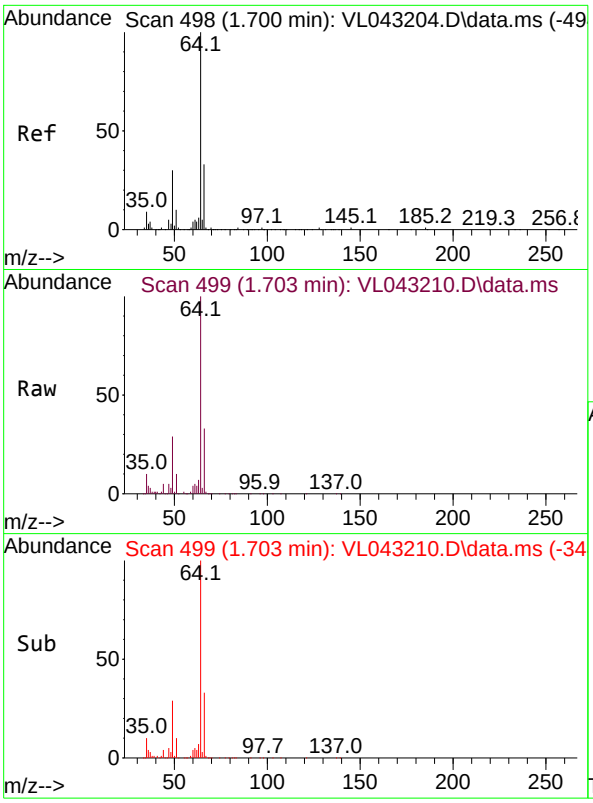


#6
Bromomethane
Concen: 13.830 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 94 Resp: 38265

Ion	Ratio	Lower	Upper
94	100		
96	89.0	72.9	109.3

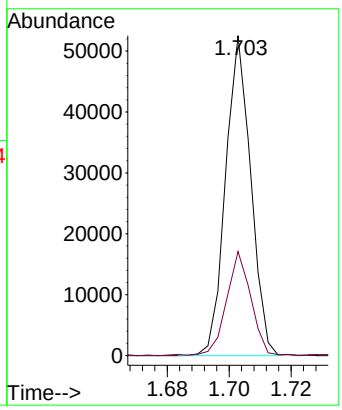




#7
Chloroethane
Concen: 13.309 ppbv
RT: 1.703 min Scan# 49
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 64 Resp: 2958

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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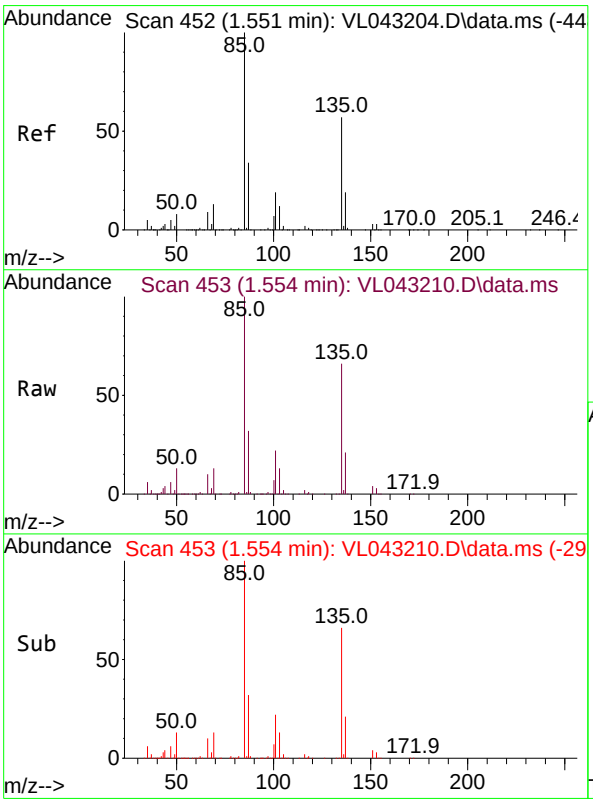
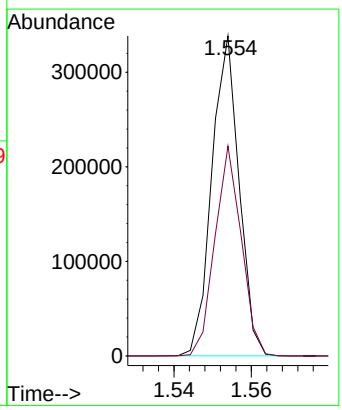
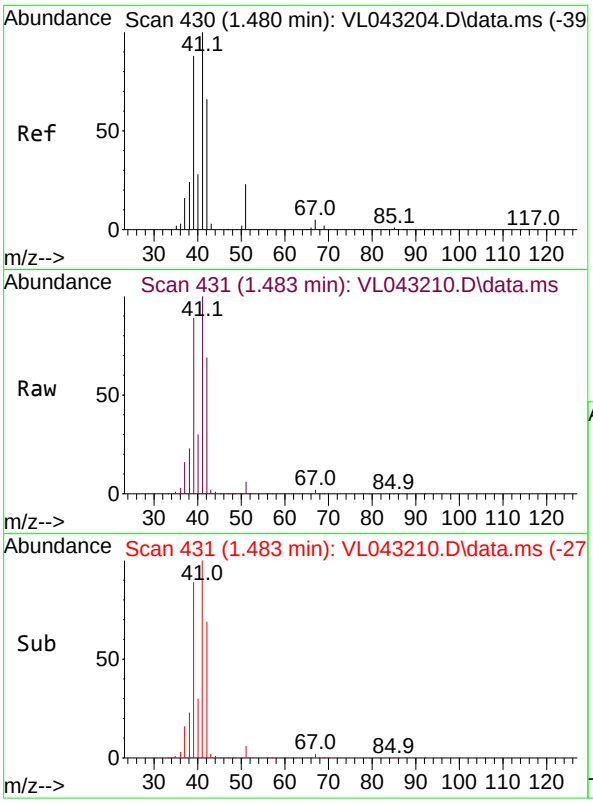


#8
Dichlorotetrafluoroethane
Concen: 14.271 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 85 Resp: 165709

Ion	Ratio	Lower	Upper
85	100		
135	63.7	52.6	79.0

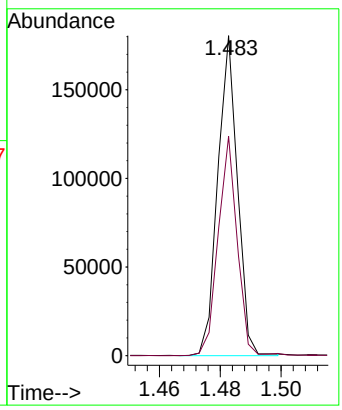




#9
Propene
Concen: 12.782 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 41 Resp: 8139

Ion	Ratio	Lower	Upper
41	100		
42	4.8	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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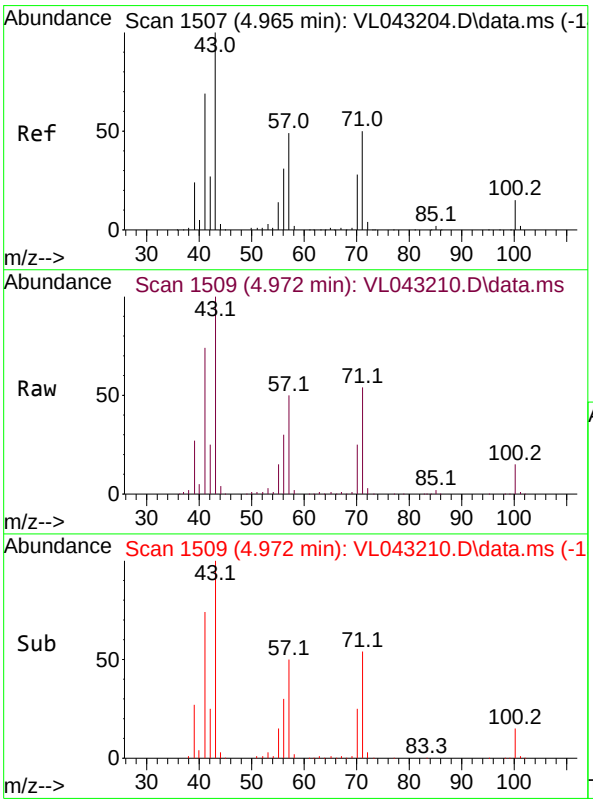
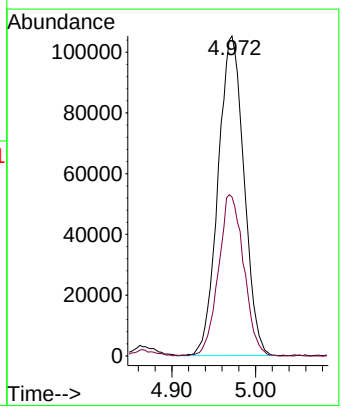
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

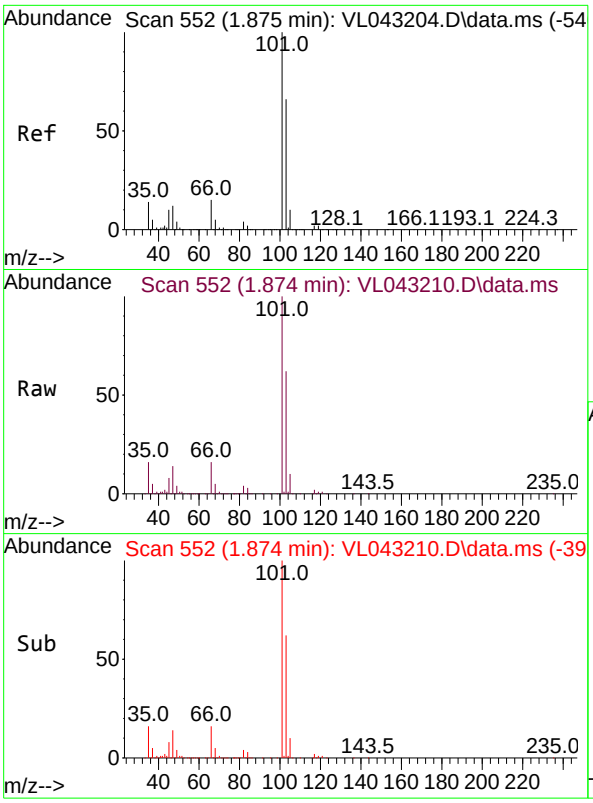


#10
Heptane
Concen: 12.934 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 225935

Ion	Ratio	Lower	Upper
43	100		
57	49.4	39.7	59.5

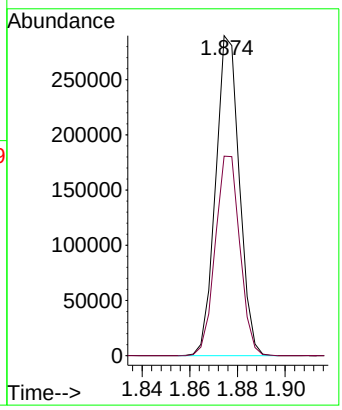




#11
Trichlorofluoromethane
Concen: 14.840 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:101 Resp: 20070

Ion	Ratio	Lower	Upper
101	100		
103	62.3	52.6	79.0



Instrument :
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ClientSampleId :
VSTDICC015

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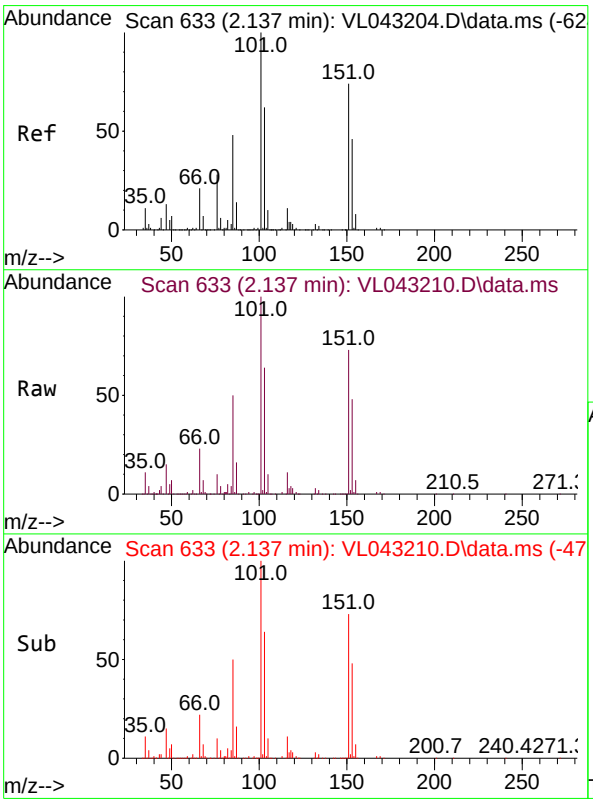
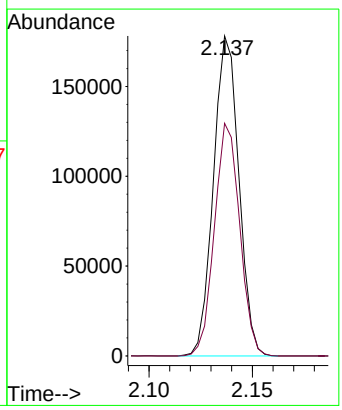
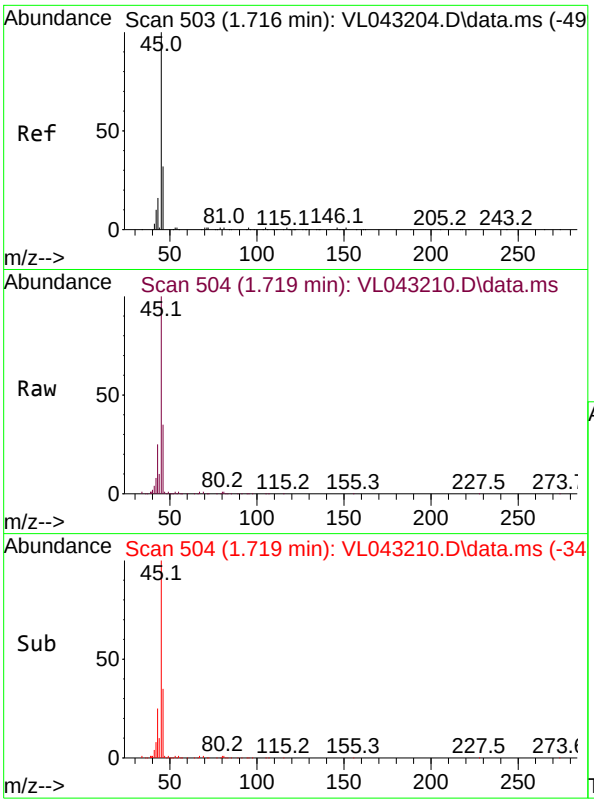


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.469 ppbv
RT: 2.137 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:101 Resp: 152772

Ion	Ratio	Lower	Upper
101	100		
151	72.3	59.2	88.8

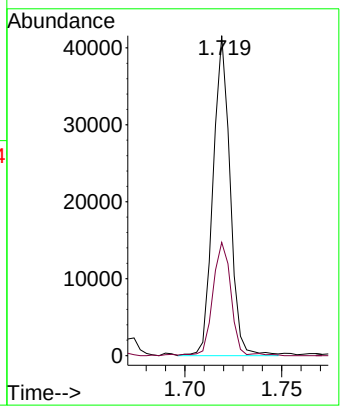




#13
Ethanol
Concen: 12.425 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 45 Resp: 2546

Ion	Ratio	Lower	Upper
45	100		
46	37.9	15.0	59.8



Instrument :
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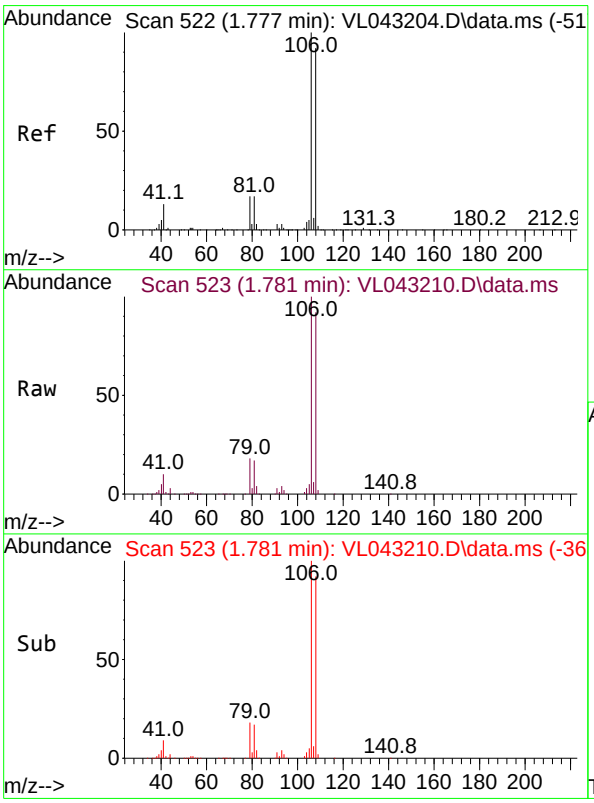
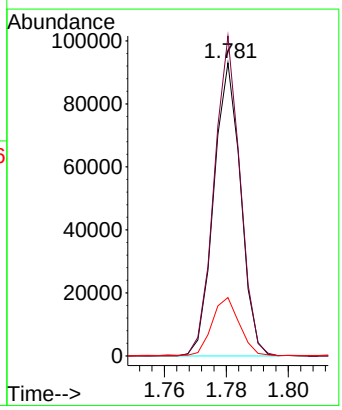
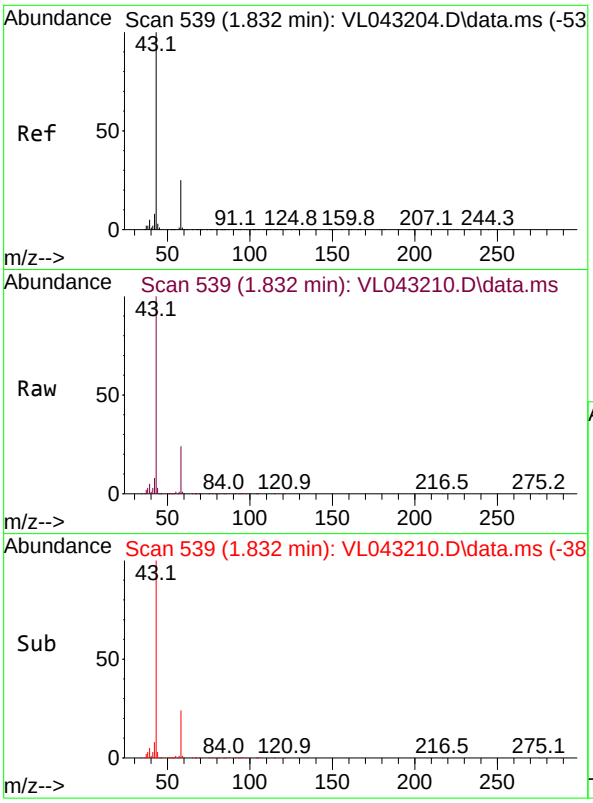


#14
Bromoethene
Concen: 13.789 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

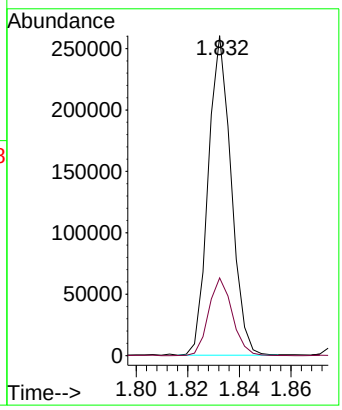




#15
Acetone
Concen: 11.712 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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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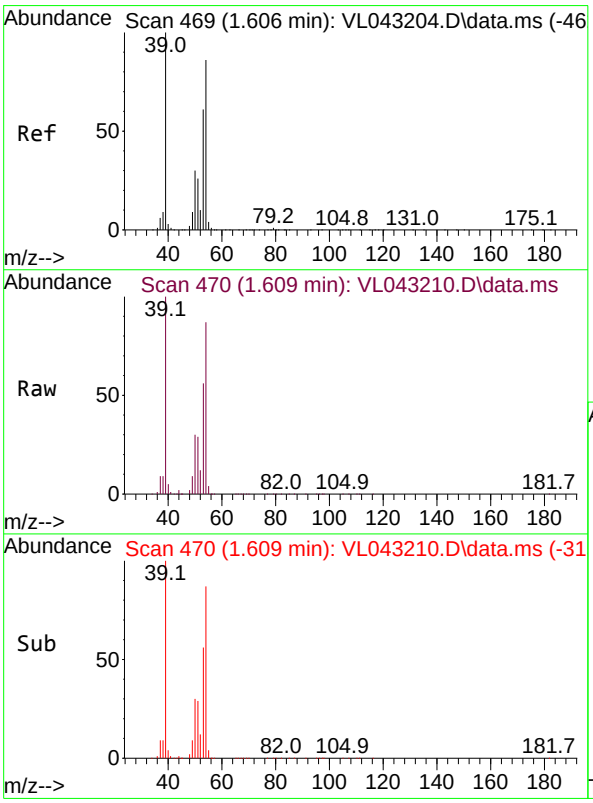
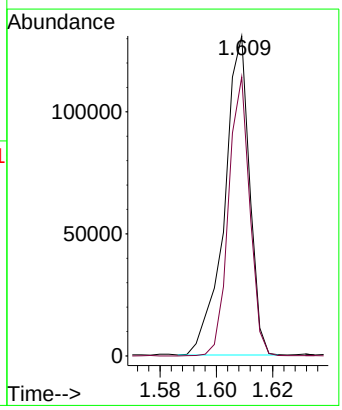
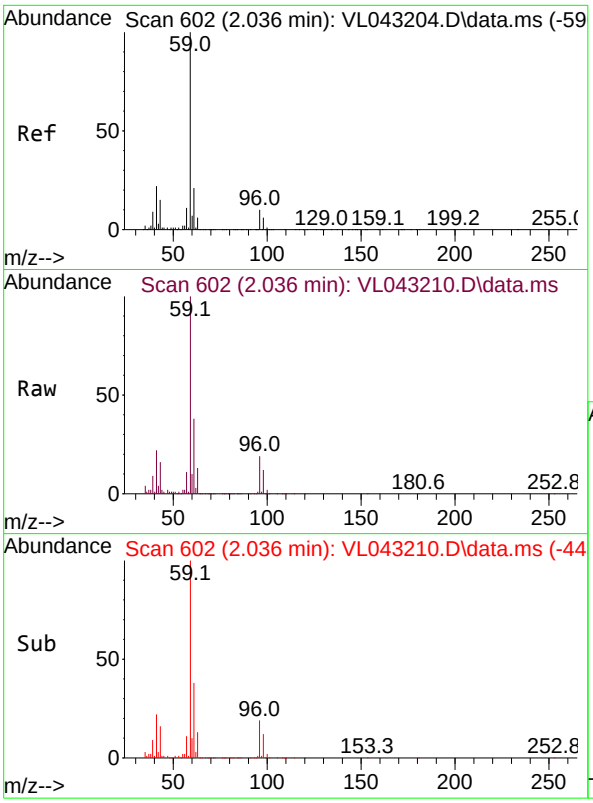


#16
1,3-Butadiene
Concen: 13.226 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 39 Resp: 81077

Ion	Ratio	Lower	Upper
39	100		
54	73.5	59.4	89.2

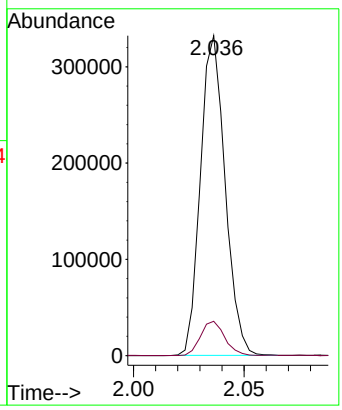




#17
tert-Butyl alcohol
Concen: 14.274 ppbv
RT: 2.036 min Scan# 6(
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 59 Resp: 25761

Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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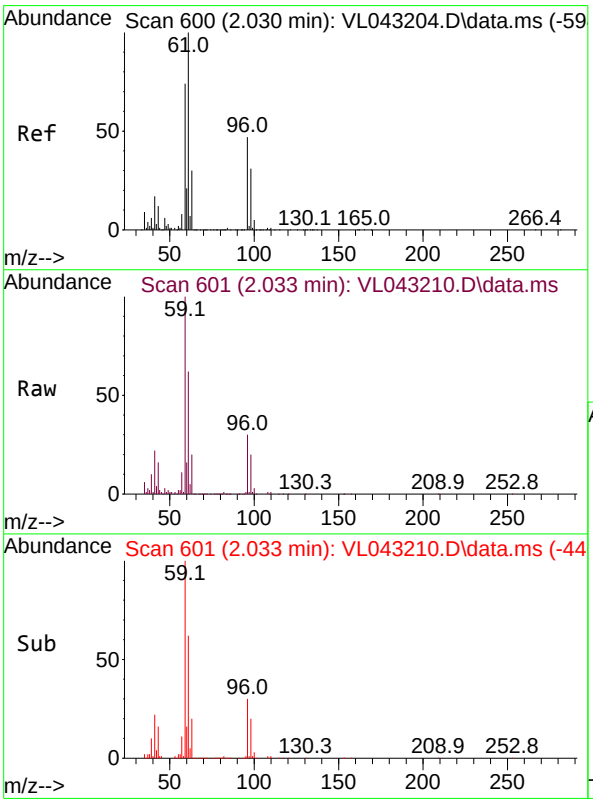
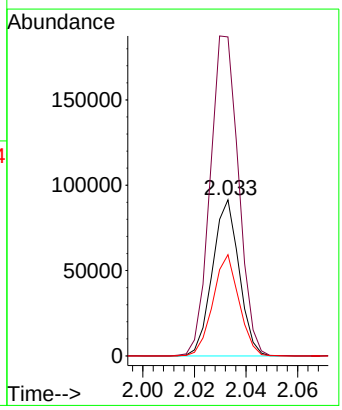
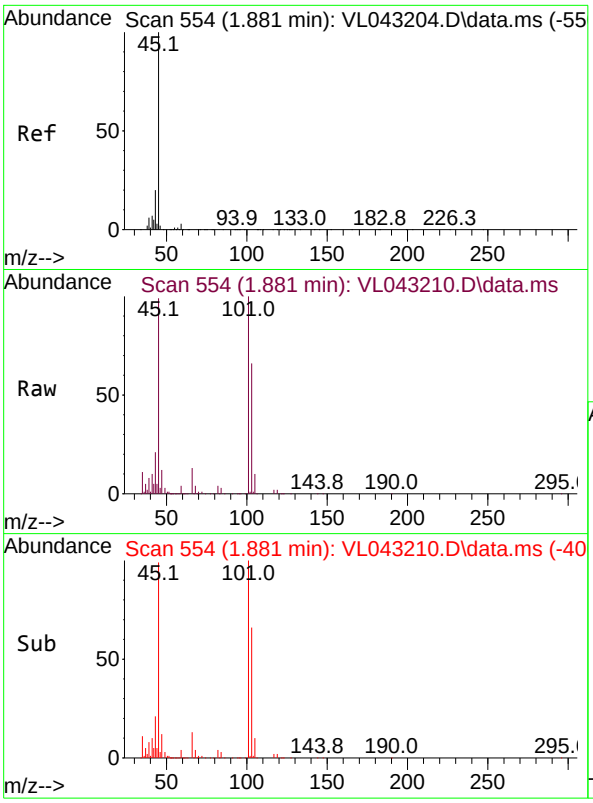


#18
1,1-Dichloroethene
Concen: 13.370 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

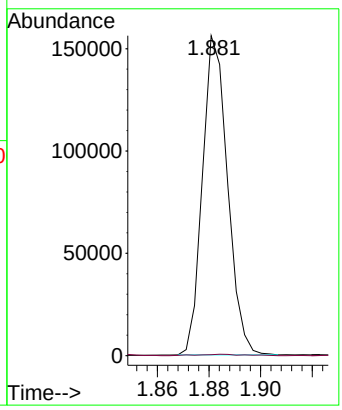




#19
Isopropyl Alcohol
Concen: 13.549 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 45 Resp: 10527

Ion	Ratio	Lower	Upper
45	100		
58	38.5	31.3	46.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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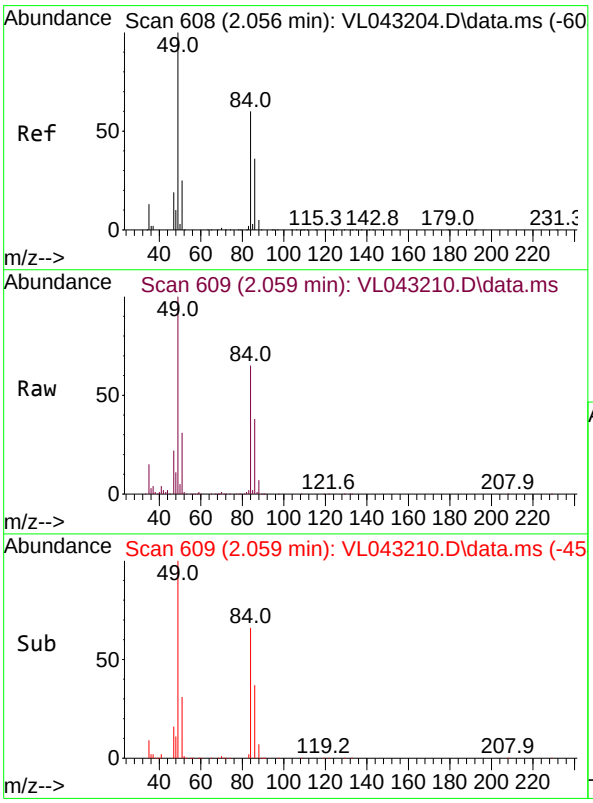
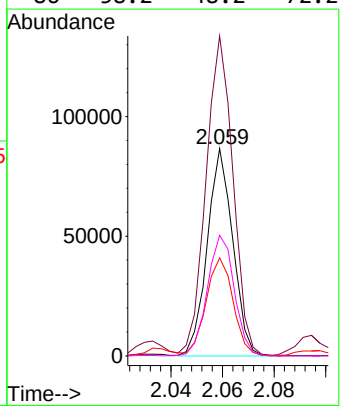
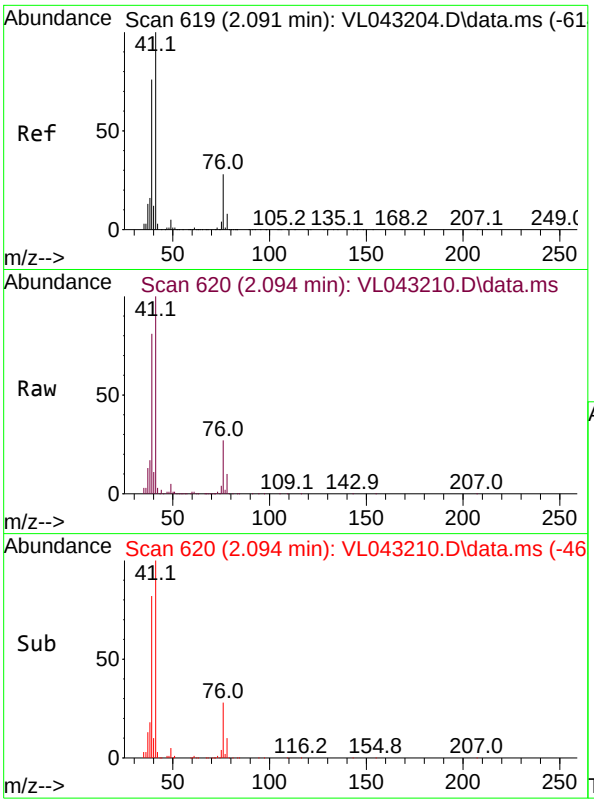


#20
Methylene Chloride
Concen: 15.164 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

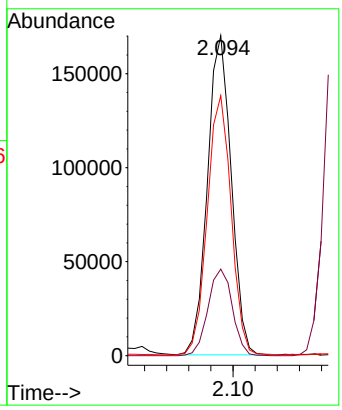




#21
Allyl Chloride
Concen: 13.724 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



Instrument :
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ClientSampleId :
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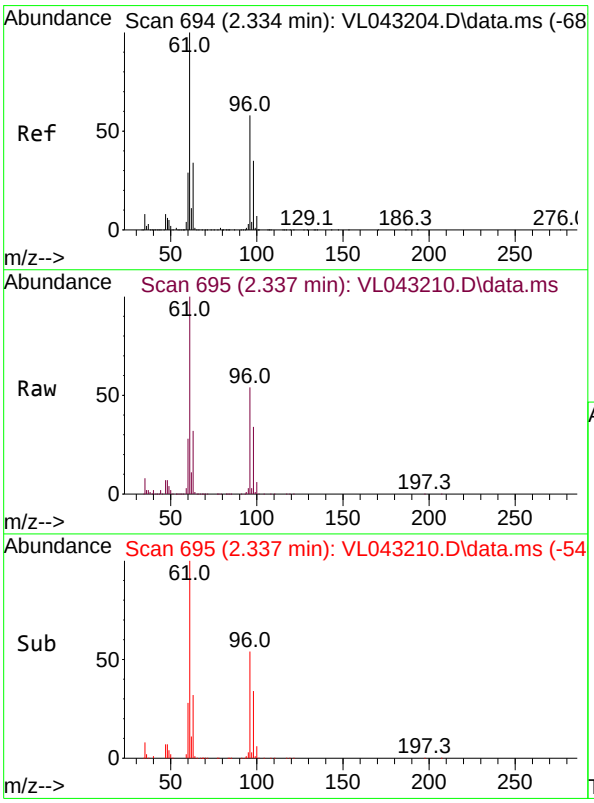
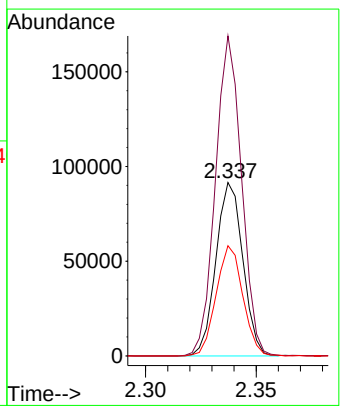
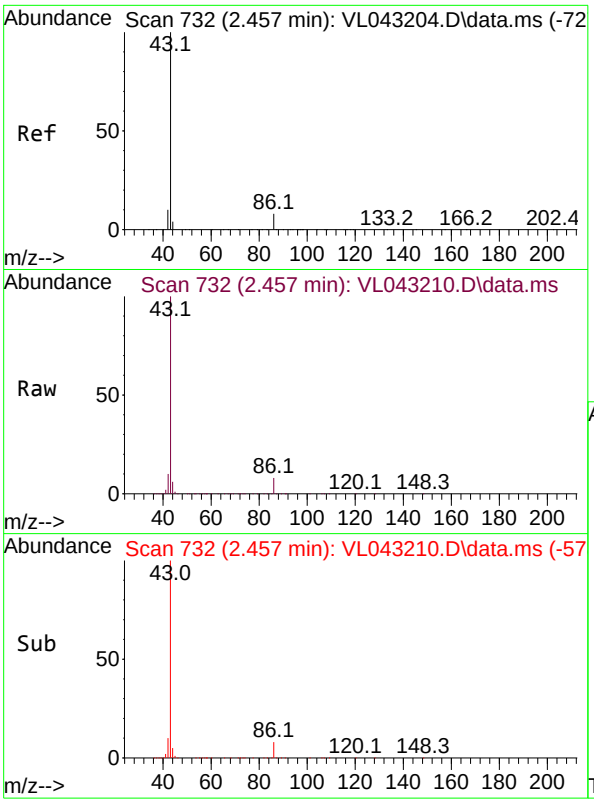


#22
trans-1,2-Dichloroethene
Concen: 13.772 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

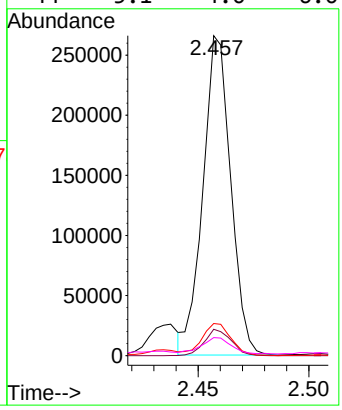




#23
Vinyl Acetate
Concen: 13.995 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



Instrument :
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ClientSampleId :
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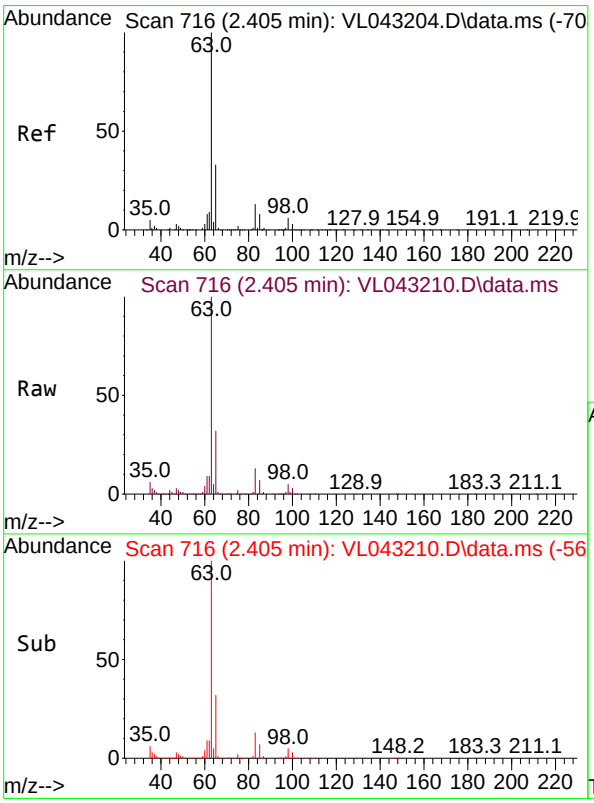
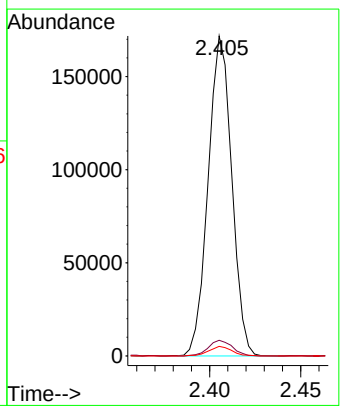
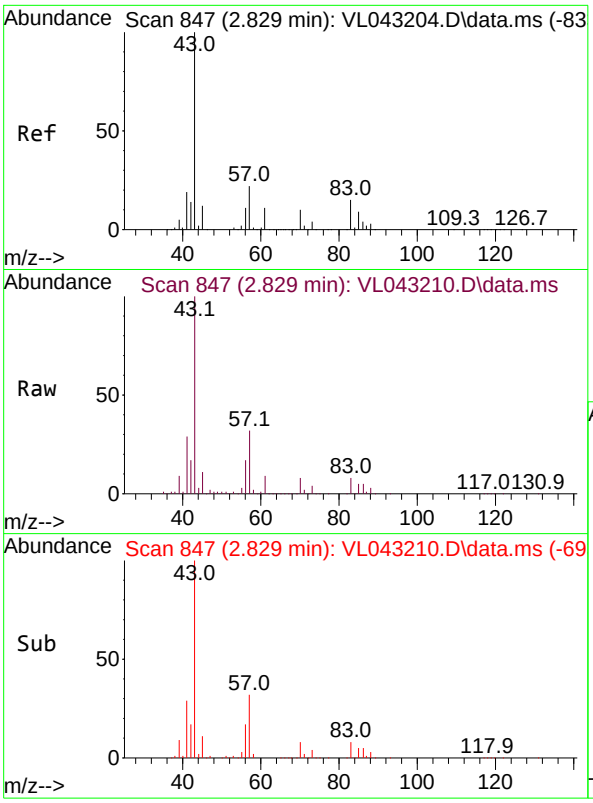


#24
1,1-Dichloroethane
Concen: 14.292 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

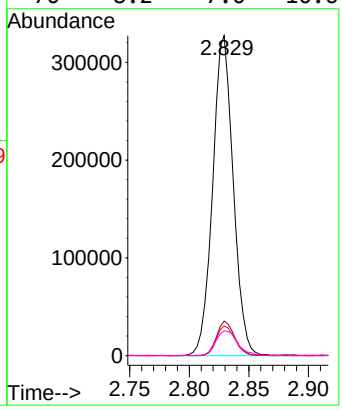




#25
Ethyl Acetate
Concen: 13.265 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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 :
MSVOA_L
ClientSampleId :
VSTDICC015

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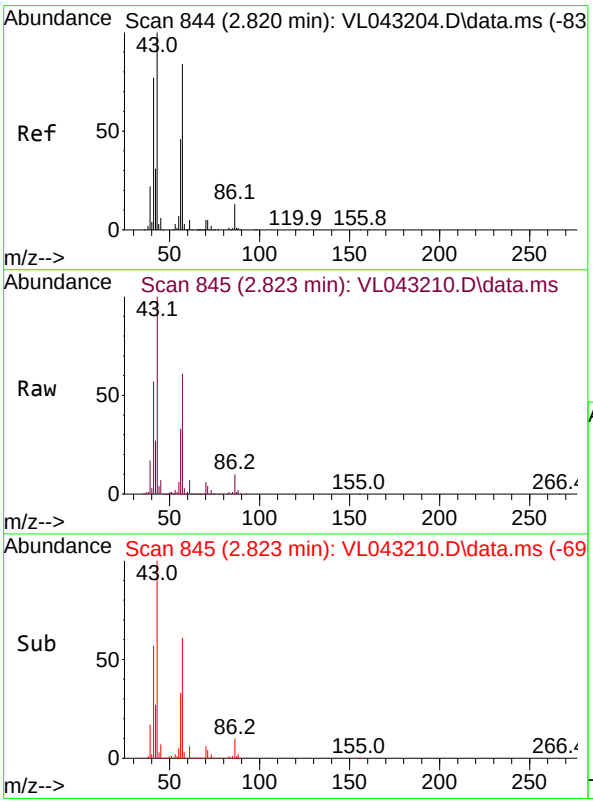
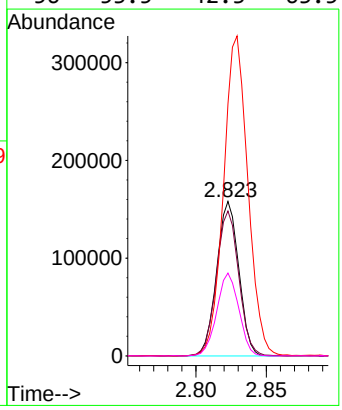
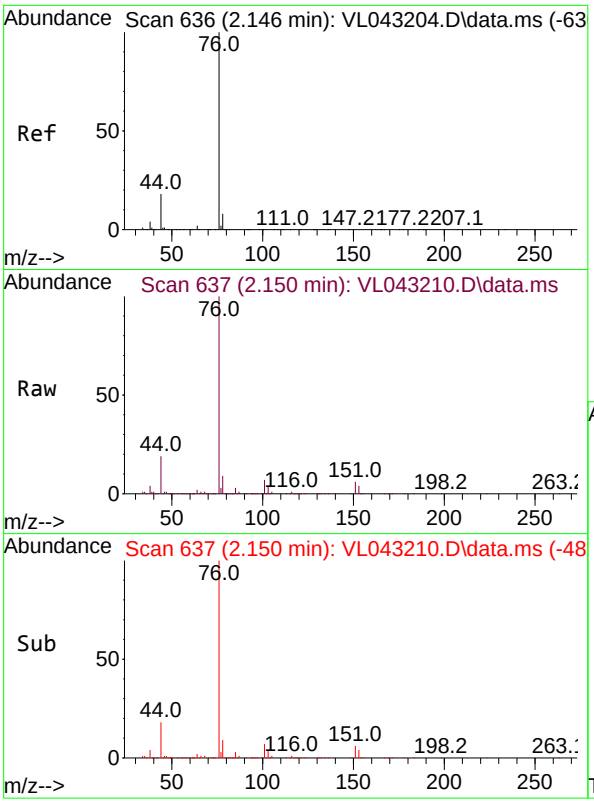


#26
Hexane
Concen: 13.252 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

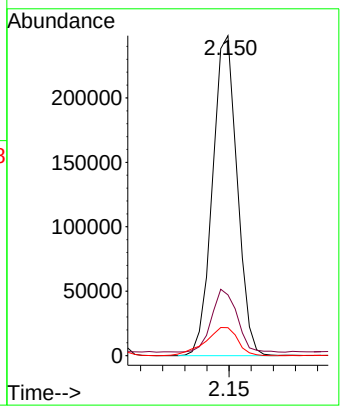




#27
Carbon Disulfide
Concen: 14.435 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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 :
MSVOA_L
ClientSampleId :
VSTDICC015

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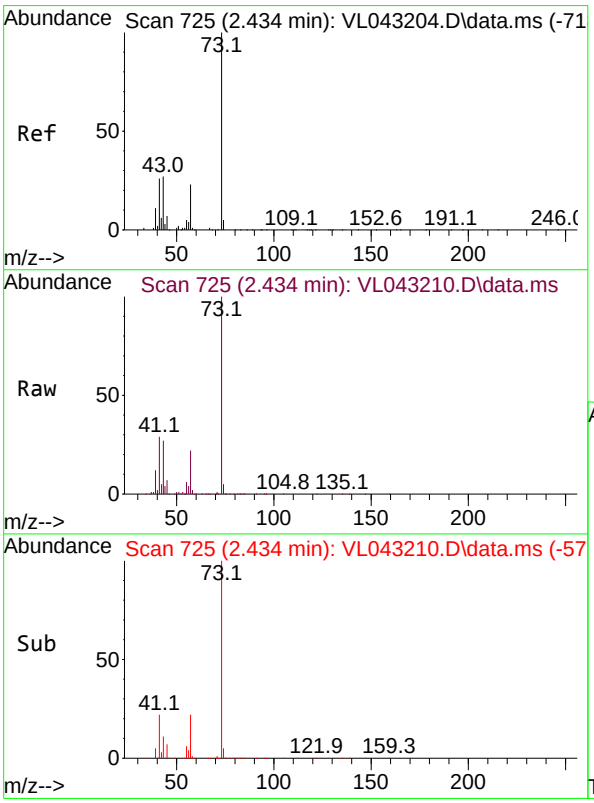
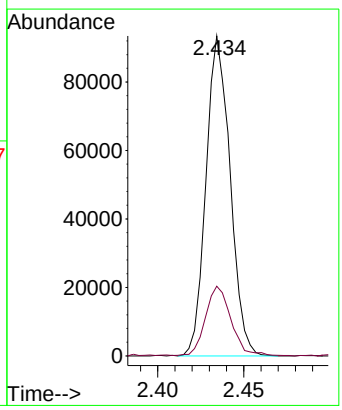
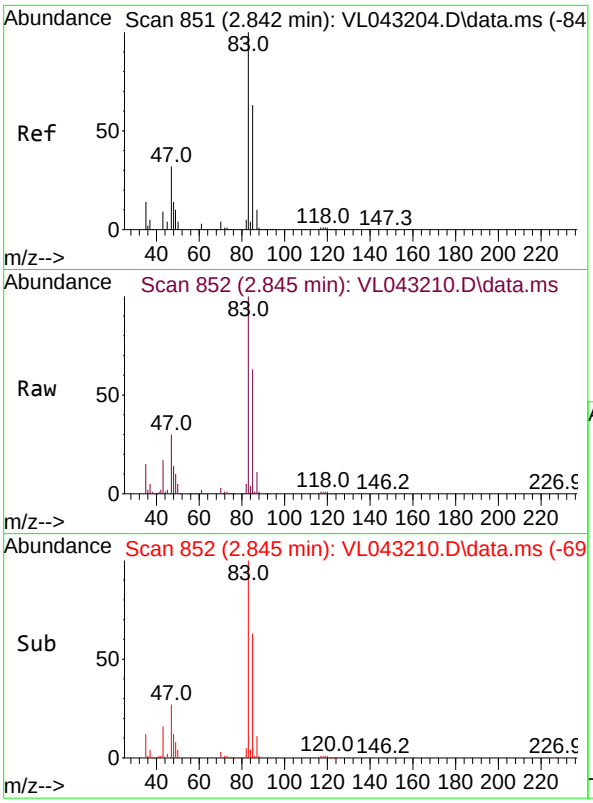


#28
Methyl tert-Butyl Ether
Concen: 14.279 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 73 Resp: 91132

Ion	Ratio	Lower	Upper
73	100		
57	23.5	19.8	29.8

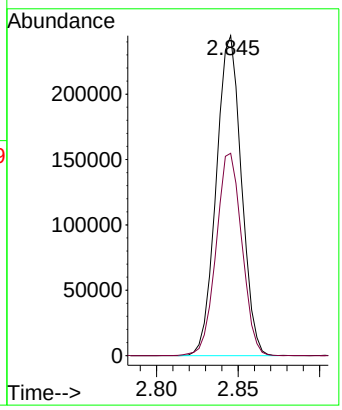




#29
Chloroform
Concen: 14.221 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 83 Resp: 26280

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.5	75.7



Instrument :
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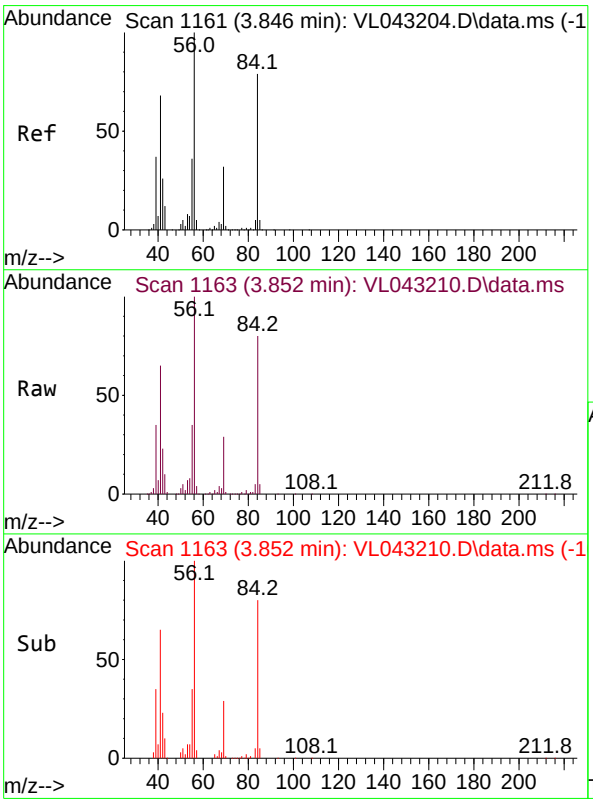
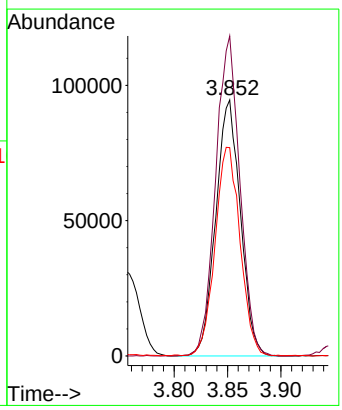
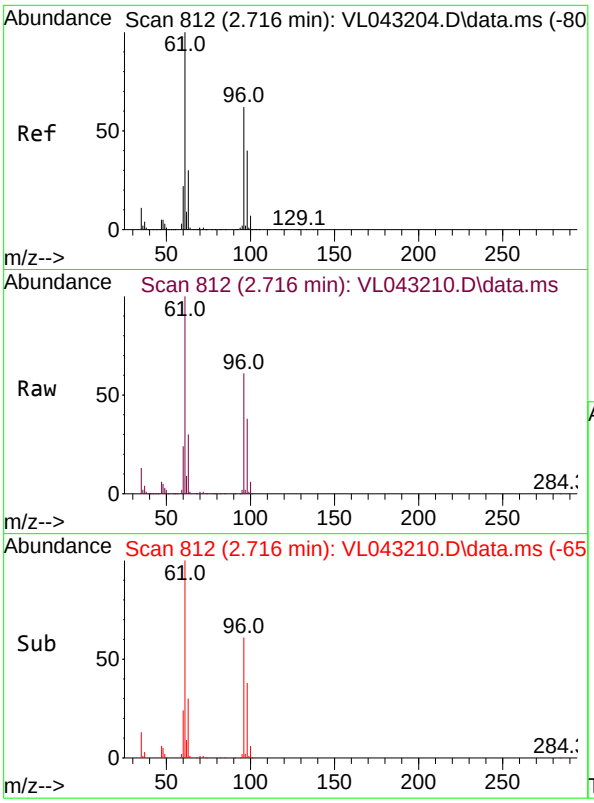


#30
Cyclohexane
Concen: 13.946 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

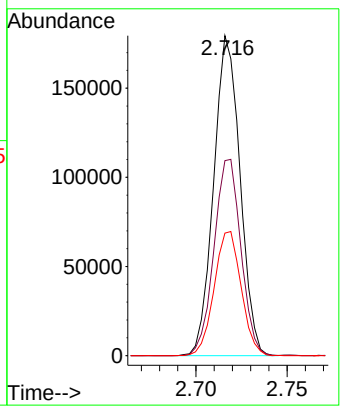




#31
cis-1,2-Dichloroethene
Concen: 13.978 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



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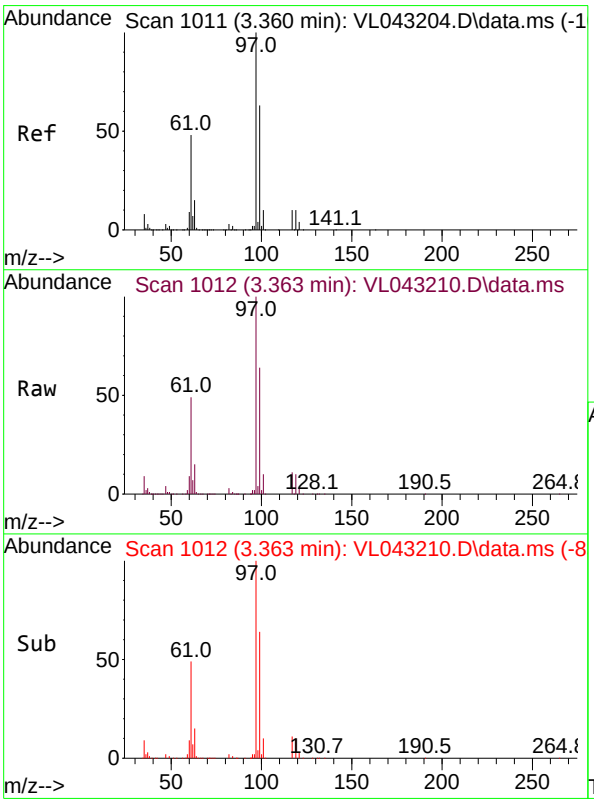
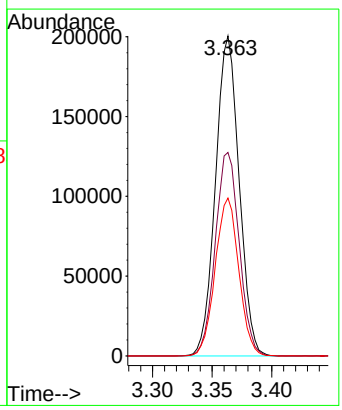
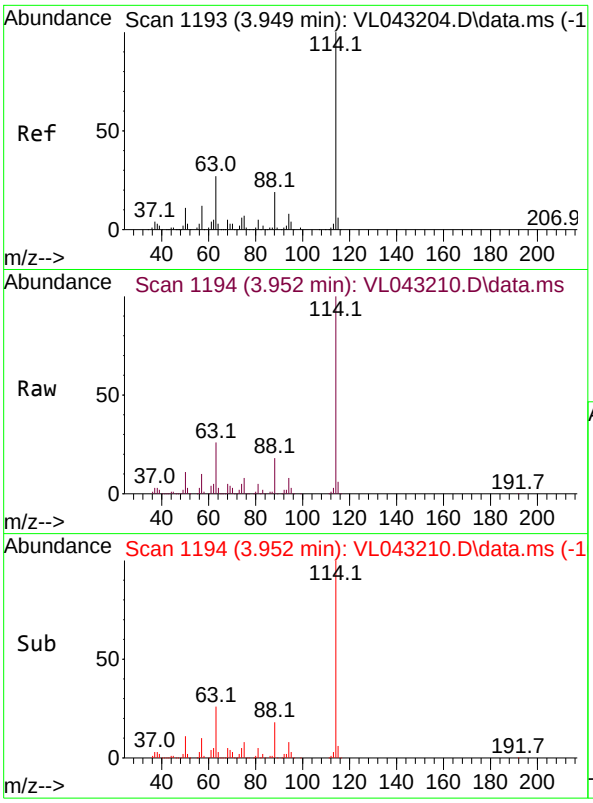


#32
1,1,1-Trichloroethane
Concen: 13.930 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

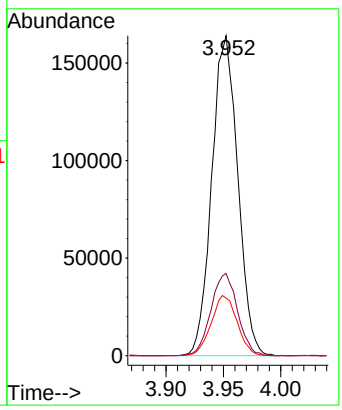




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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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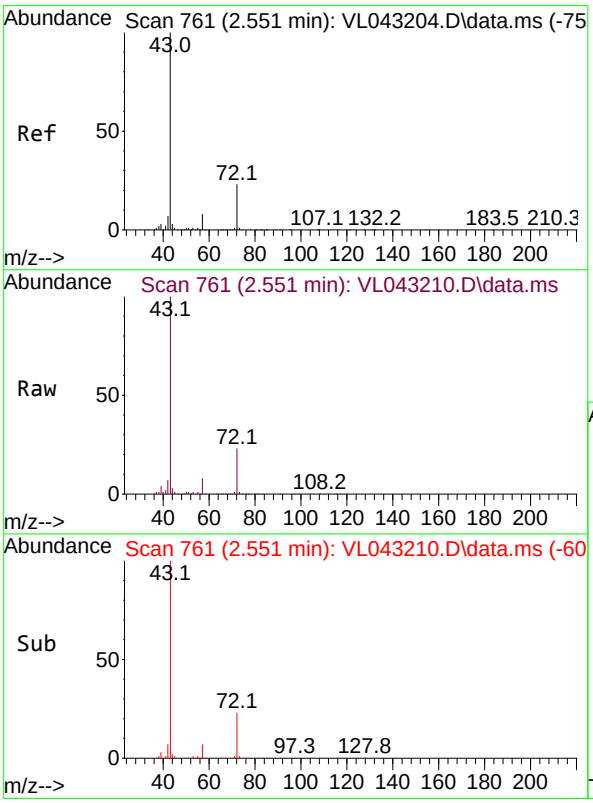
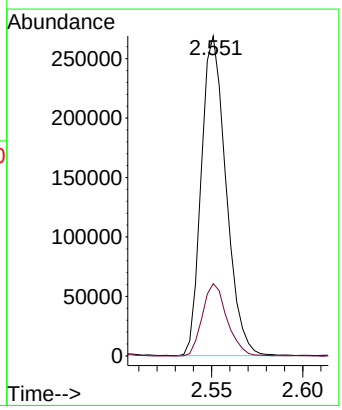
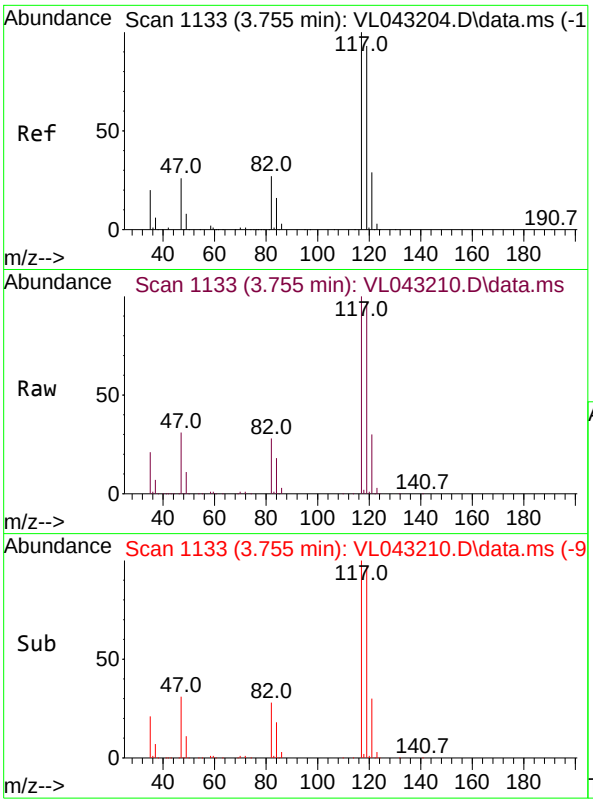


#34
2-Butanone
Concen: 13.914 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 253855

Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.1	27.1

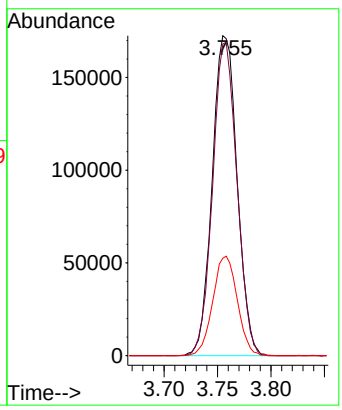




#35
Carbon Tetrachloride
Concen: 14.250 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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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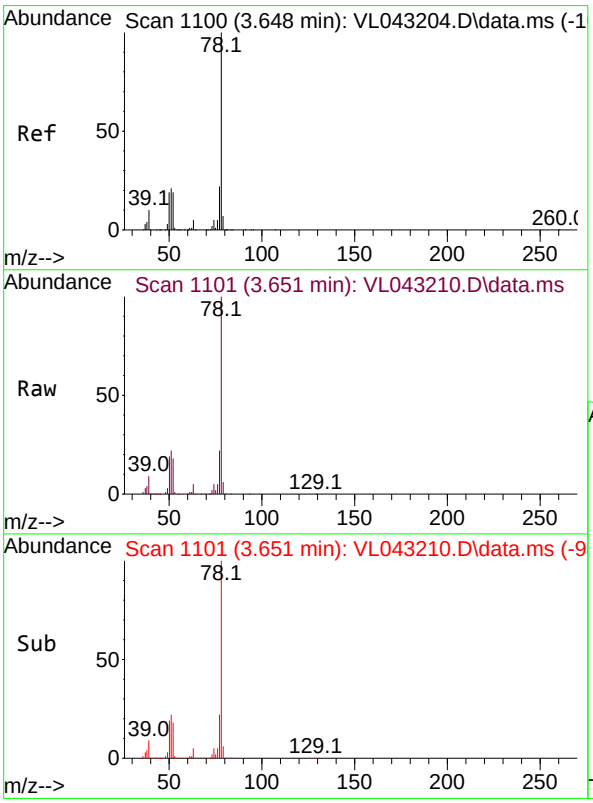
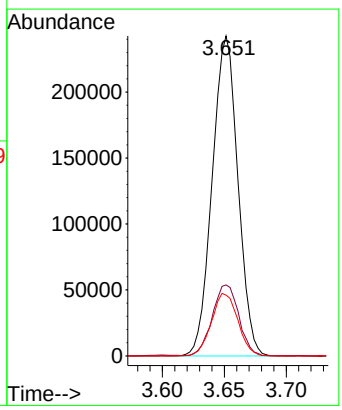
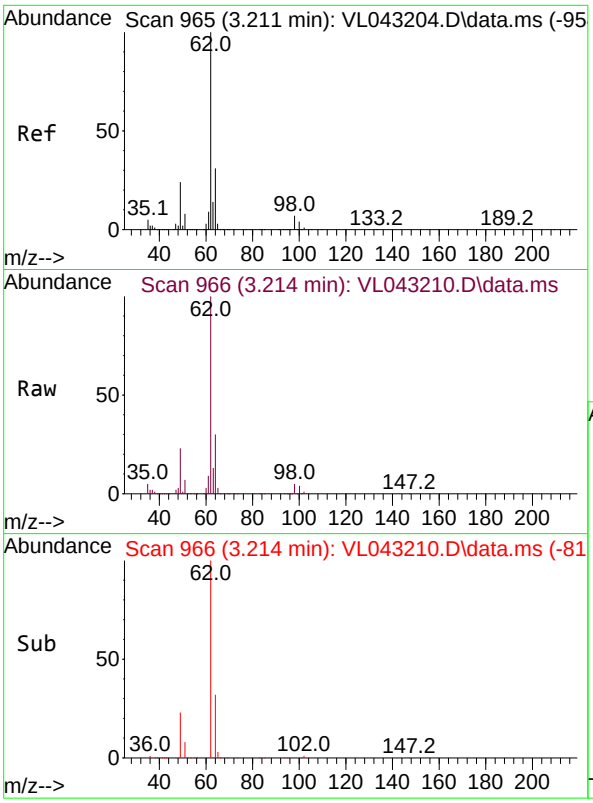


#36
Benzene
Concen: 14.096 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

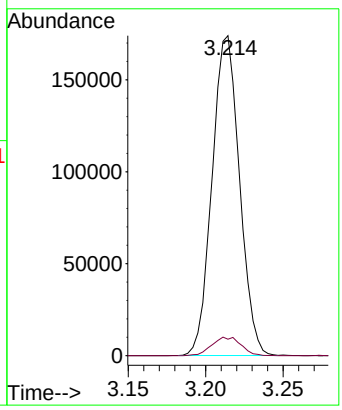




#37
1,2-Dichloroethane
Concen: 14.798 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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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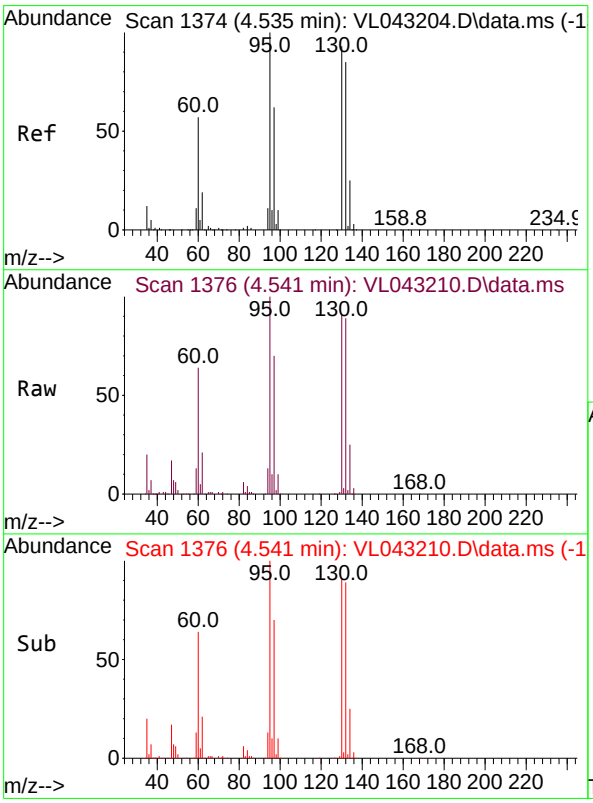
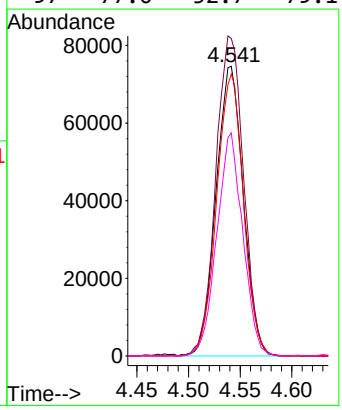
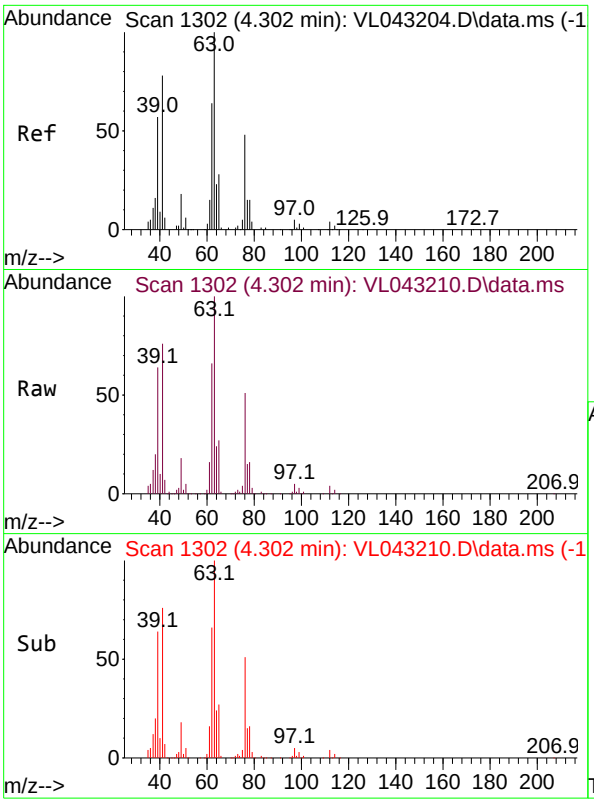


#38
Trichloroethene
Concen: 14.123 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

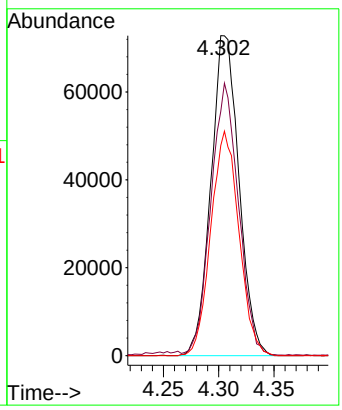




#39
1,2-Dichloropropane
Concen: 14.206 ppbv
RT: 4.302 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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 :
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ClientSampleId :
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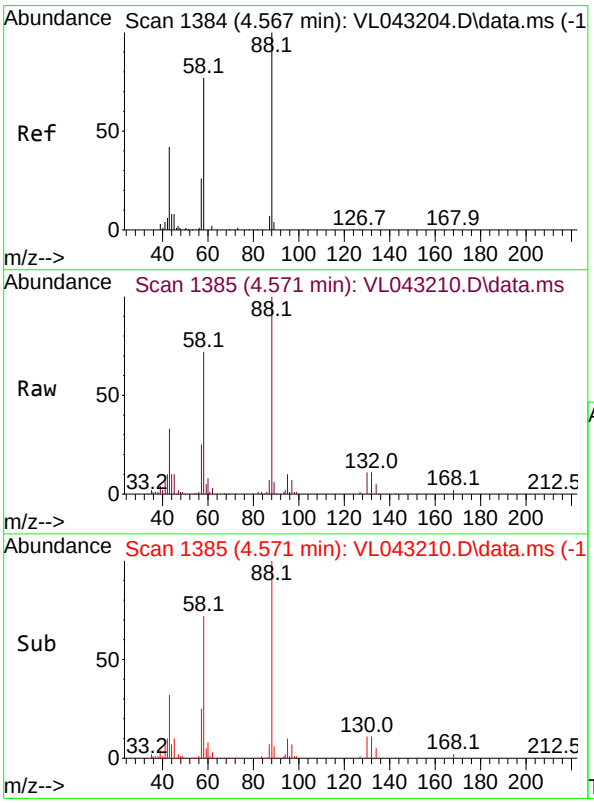
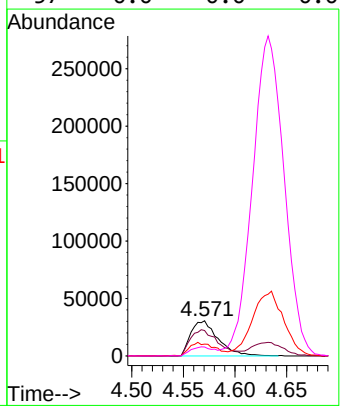
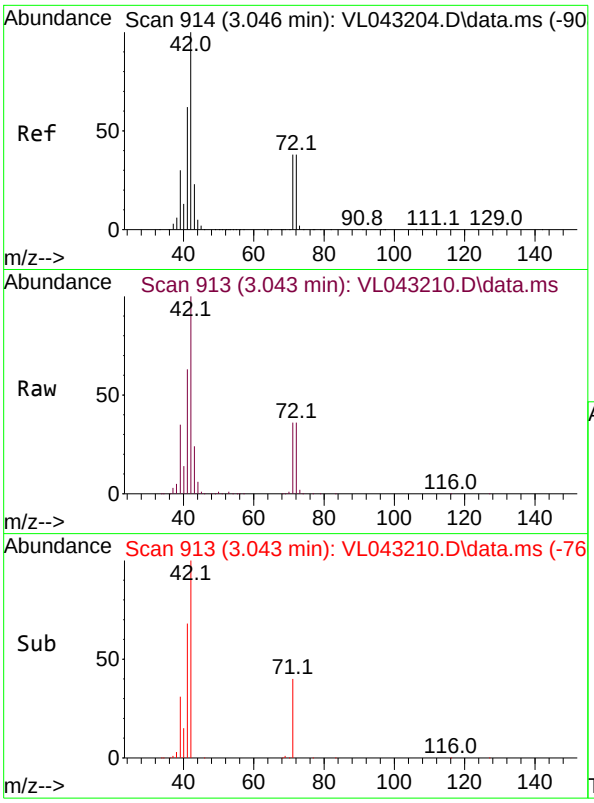


#40
1,4-Dioxane
Concen: 13.728 ppbv
RT: 4.571 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

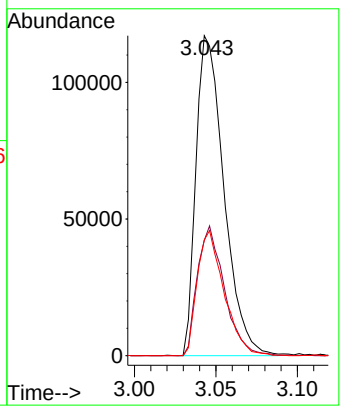




#41
Tetrahydrofuran
Concen: 13.868 ppbv
RT: 3.043 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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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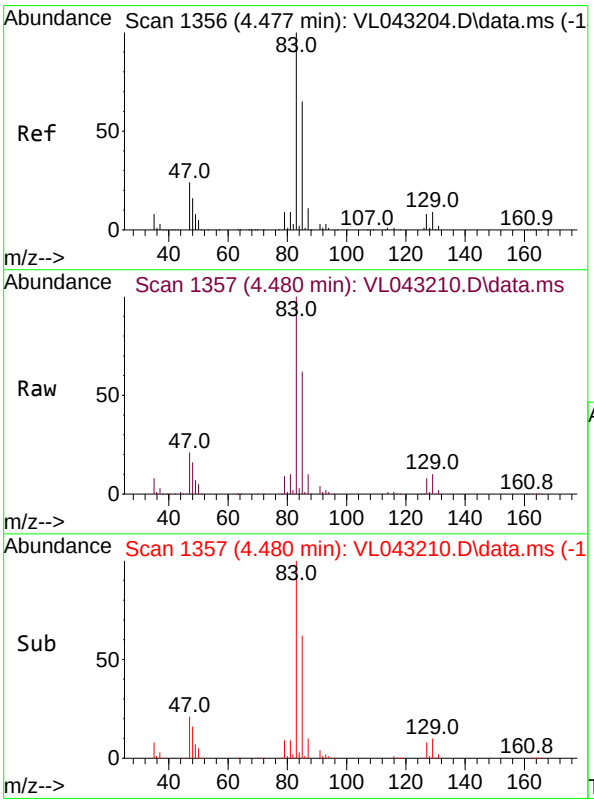
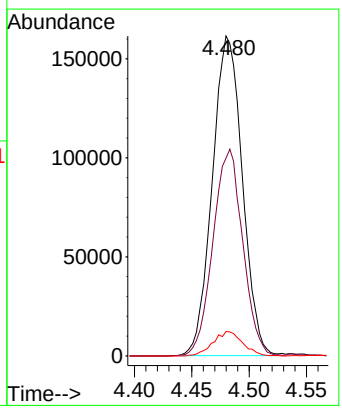
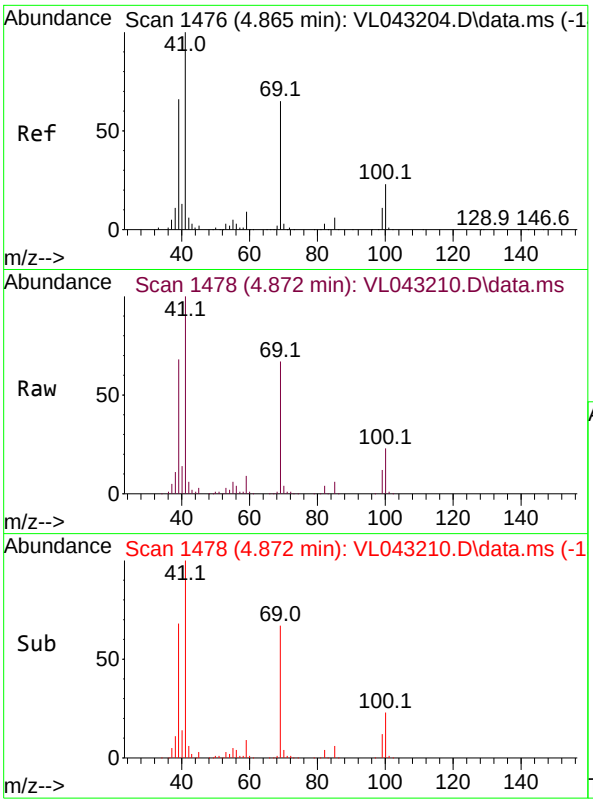


#42
Bromodichloromethane
Concen: 14.721 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

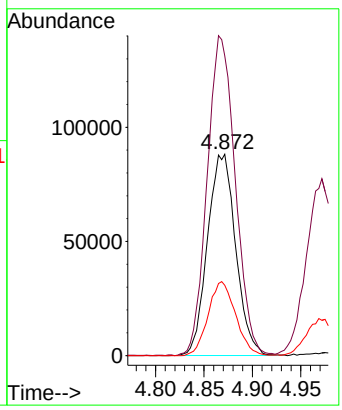




#43
Methyl Methacrylate
Concen: 13.633 ppbv
RT: 4.872 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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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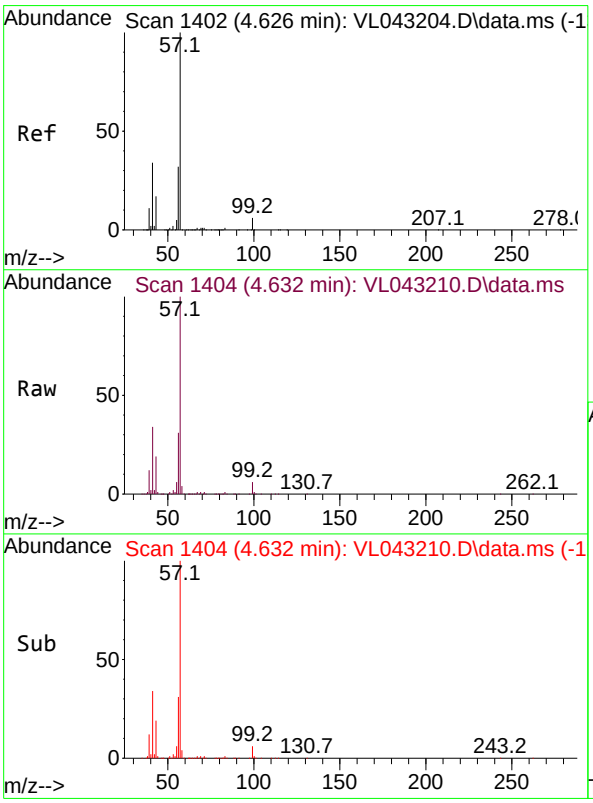
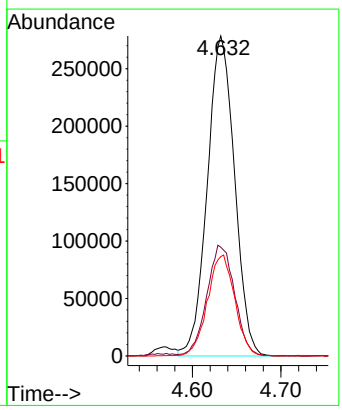
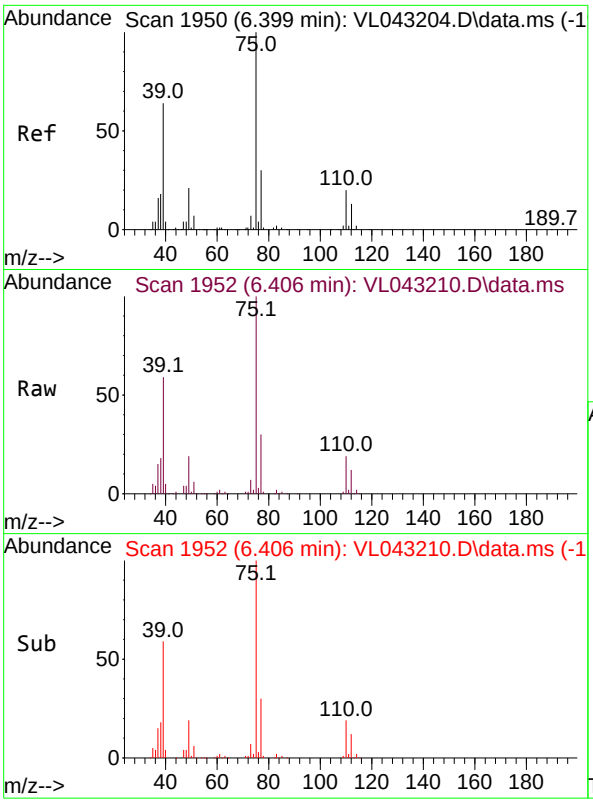


#44
2,2,4-Trimethylpentane
Concen: 14.014 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

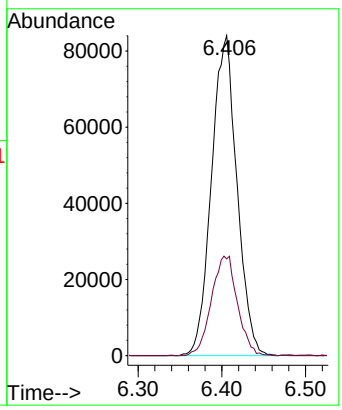




#45
t-1,3-Dichloropropene
Concen: 14.508 ppbv
RT: 6.406 min Scan# 19
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 75 Resp: 17767

Ion	Ratio	Lower	Upper
75	100		
77	30.2	24.3	36.5



Instrument :
MSVOA_L
ClientSampleId :
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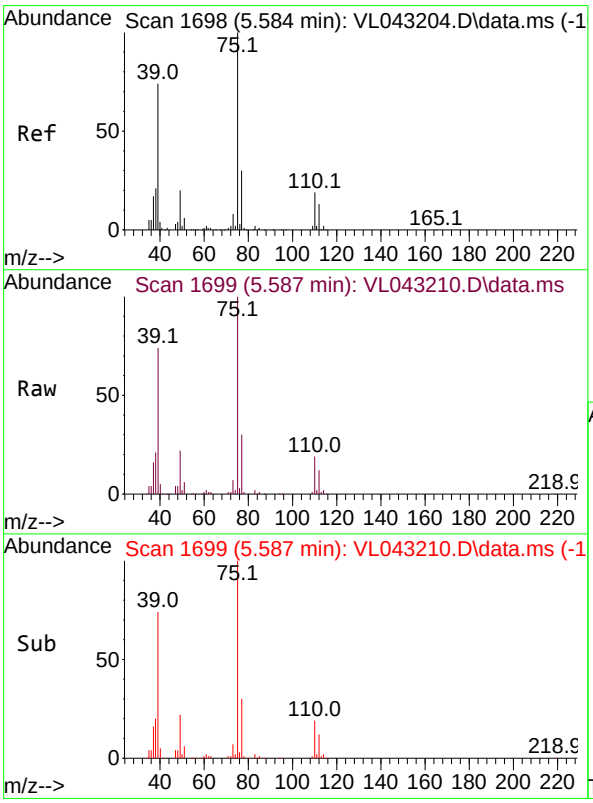
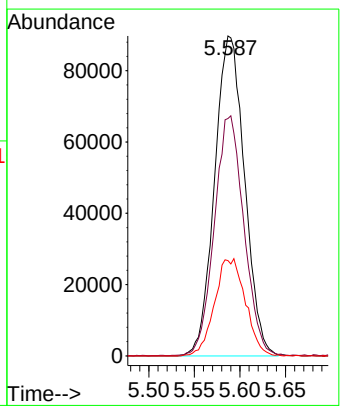
Supervised By :Mahesh Dadoda 11/19/2025

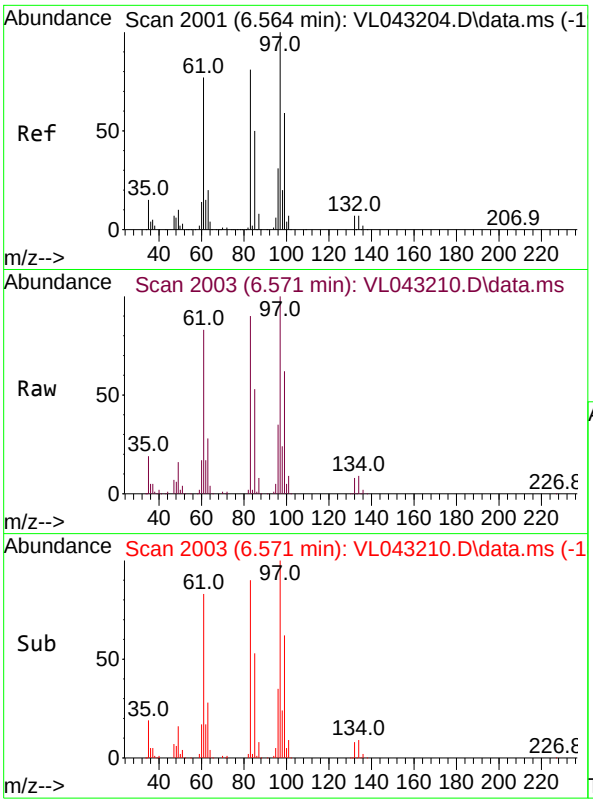


#46
cis-1,3-Dichloropropene
Concen: 14.270 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

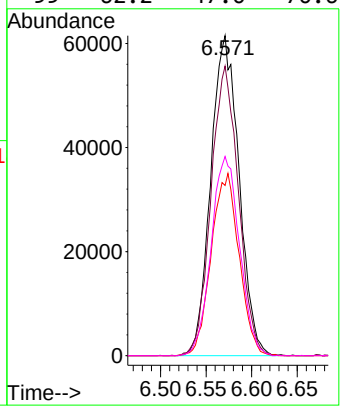




#47
1,1,2-Trichloroethane
Concen: 13.738 ppbv
RT: 6.571 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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 :
MSVOA_L
ClientSampleId :
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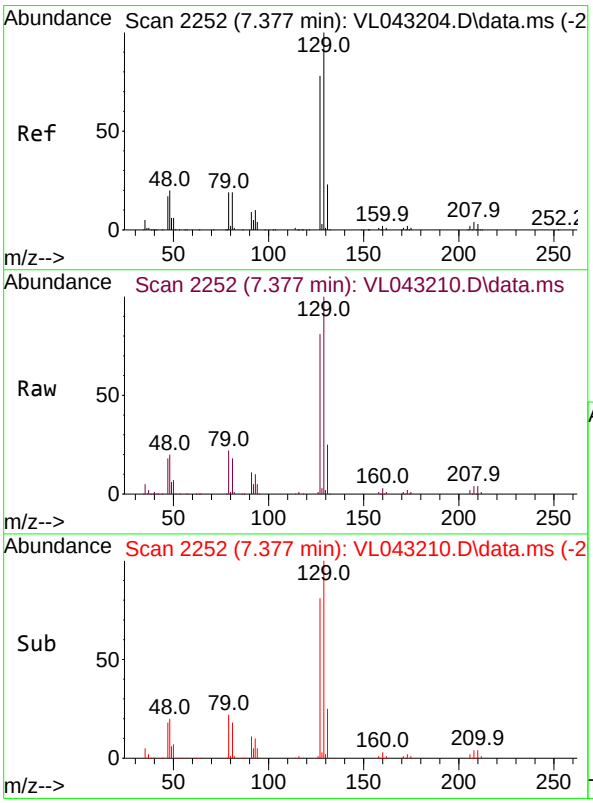
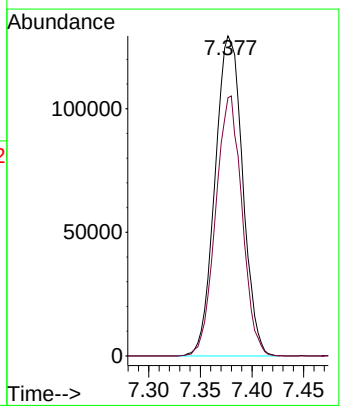
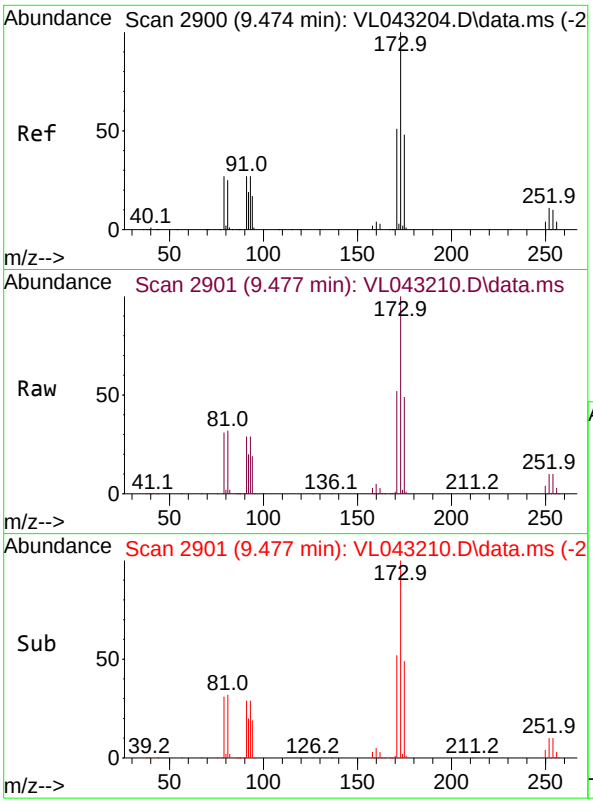


#48
Dibromochloromethane
Concen: 14.564 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:129 Resp: 240736

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.3	117.9

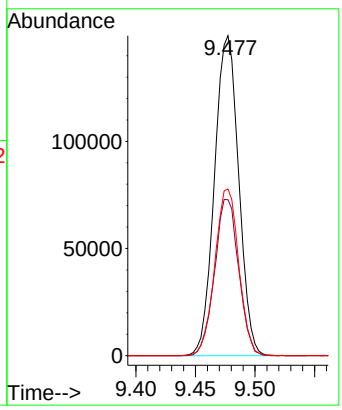




#49
Bromoform
Concen: 14.434 ppbv
RT: 9.477 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:173 Resp: 21132

Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.6	58.0
171	51.5	40.6	61.0



Instrument :
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ClientSampleId :
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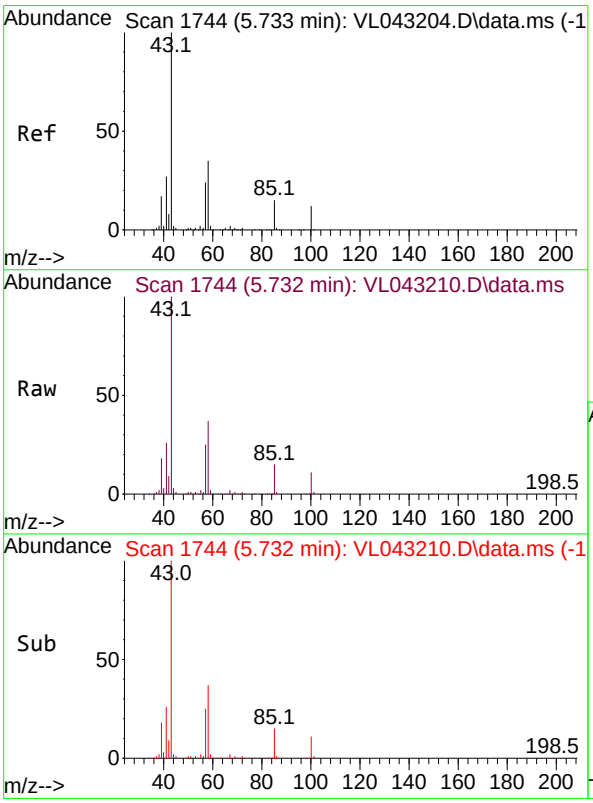
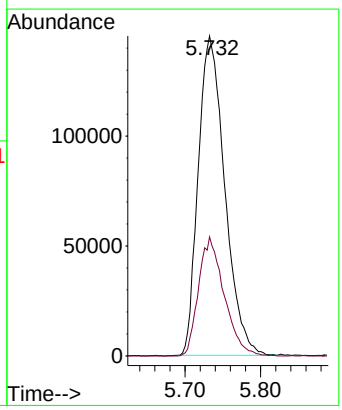
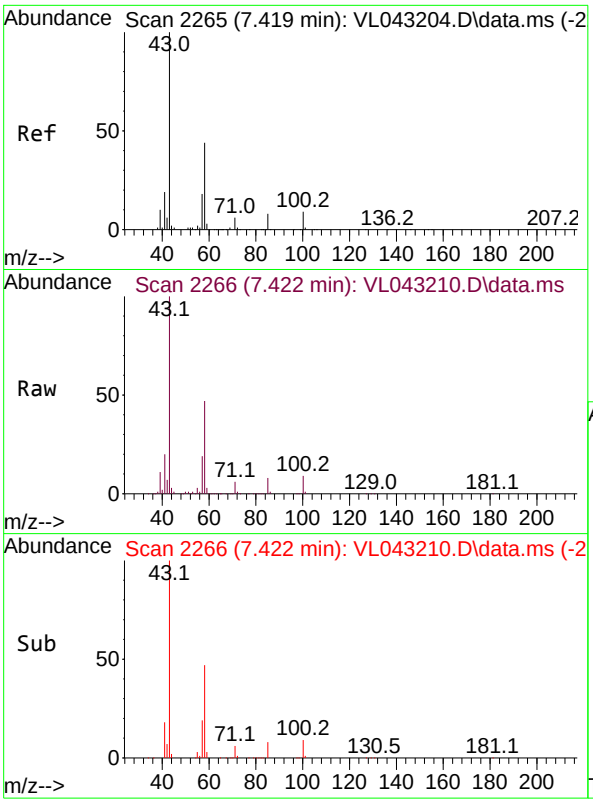


#50
4-Methyl-2-Pentanone
Concen: 13.790 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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 :
MSVOA_L
ClientSampleId :
VSTDICC015

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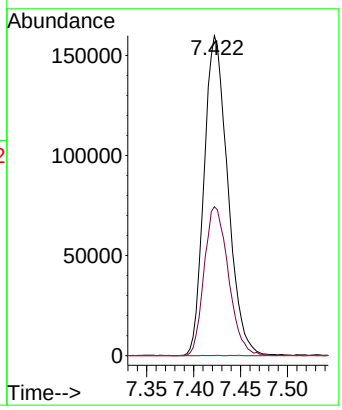
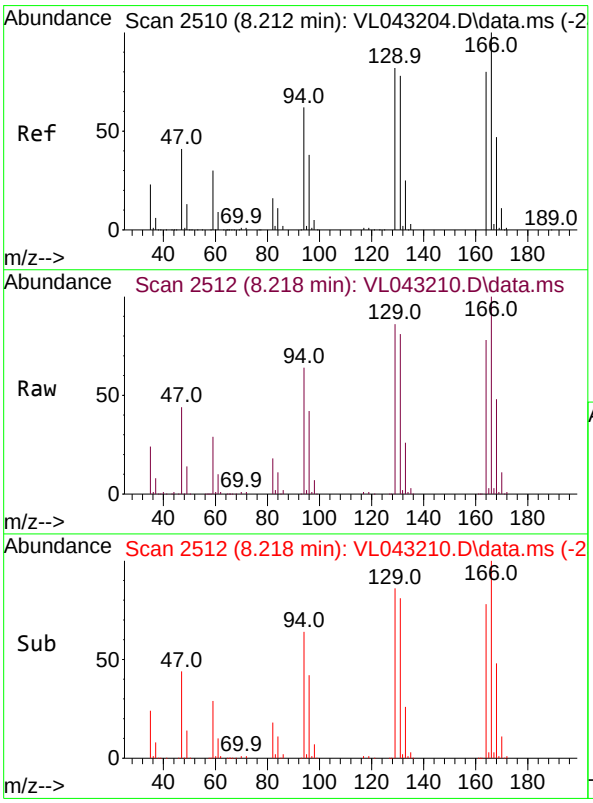
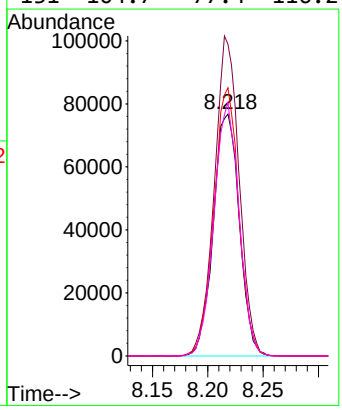


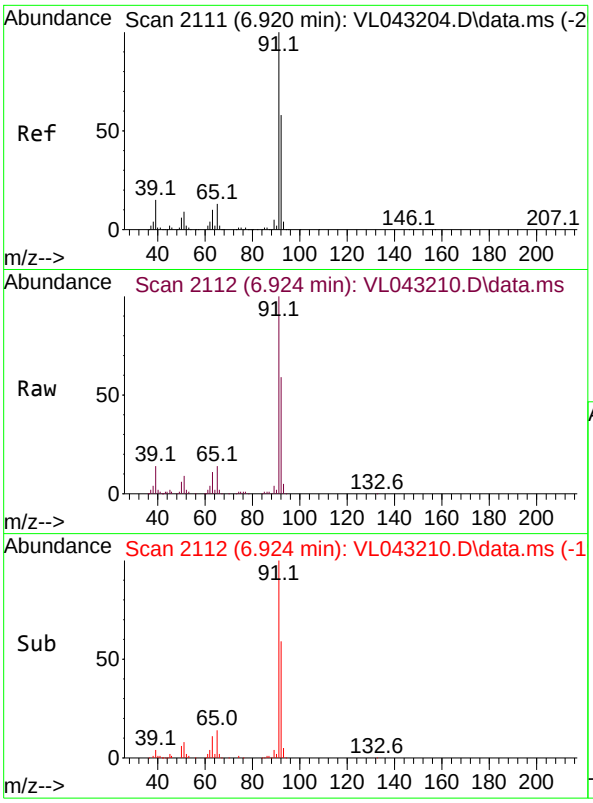


#52
Tetrachloroethene
Concen: 13.591 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

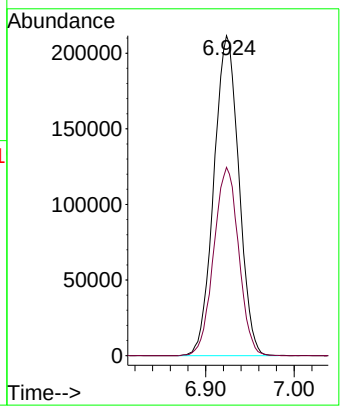




#53
Toluene
Concen: 14.050 ppbv
RT: 6.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 414411

Ion	Ratio	Lower	Upper
91	100		
92	58.8	47.4	71.0



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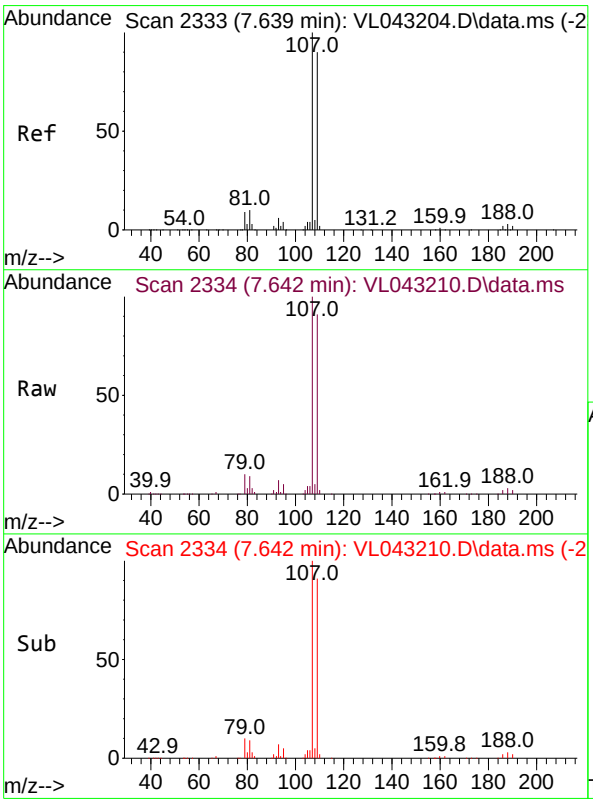
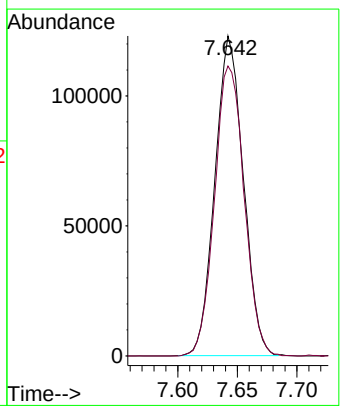
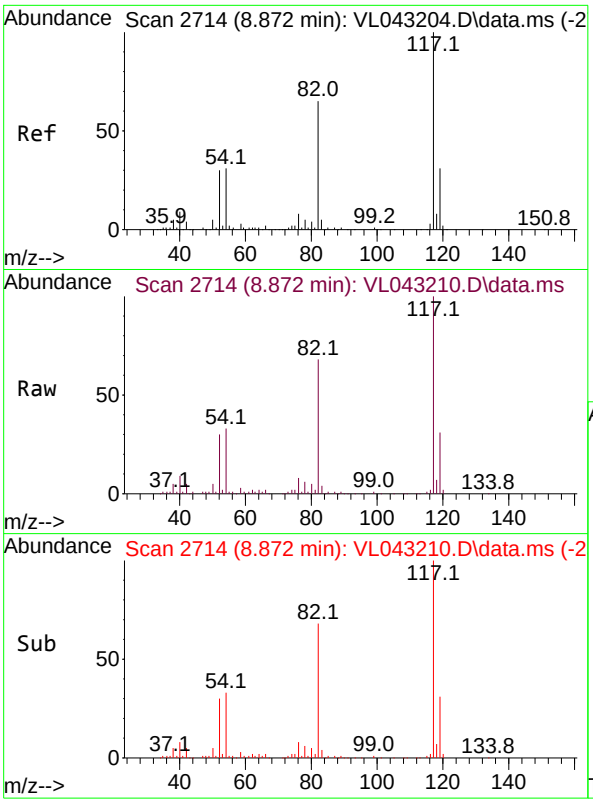


#54
1,2-Dibromoethane
Concen: 14.413 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:107 Resp: 203913

Ion	Ratio	Lower	Upper
107	100		
109	90.6	72.1	108.1

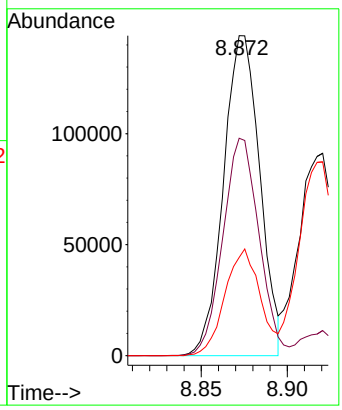




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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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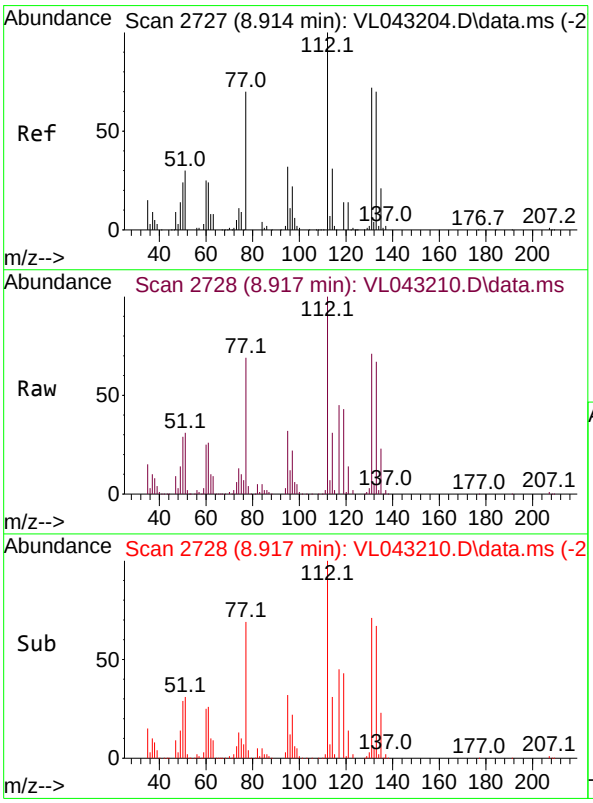
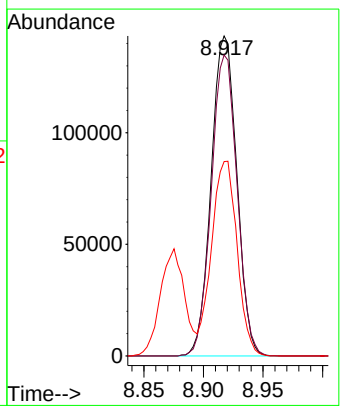
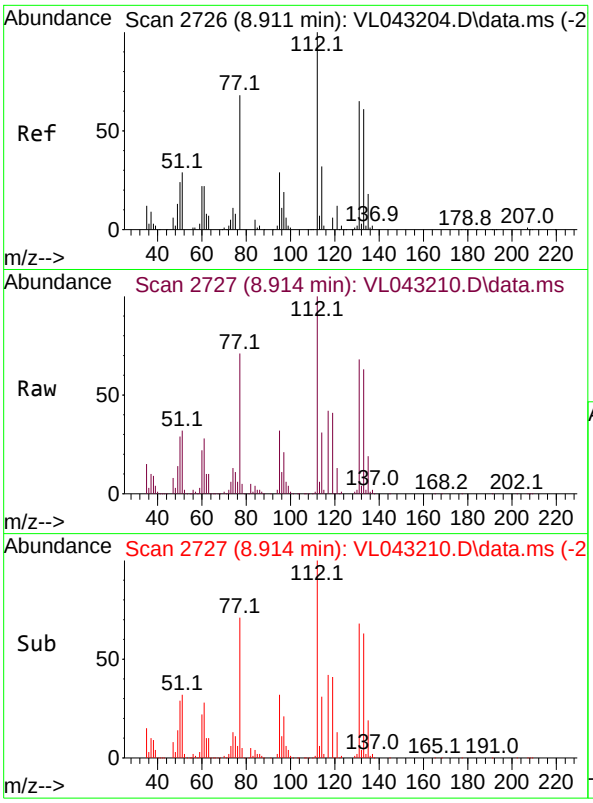


#56
1,1,1,2-Tetrachloroethane
Concen: 13.827 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

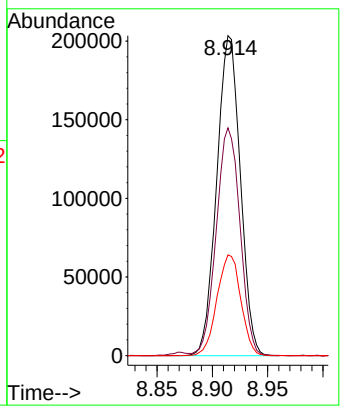




#57
Chlorobenzene
Concen: 13.923 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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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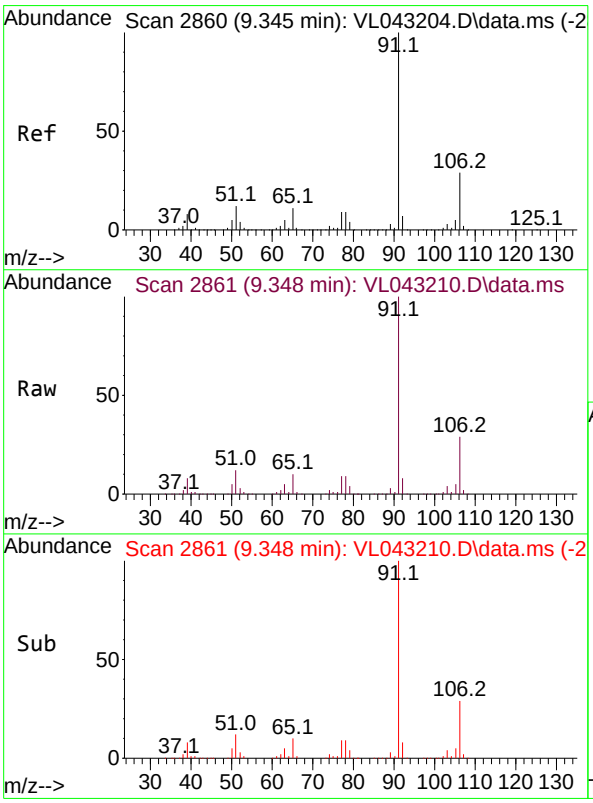
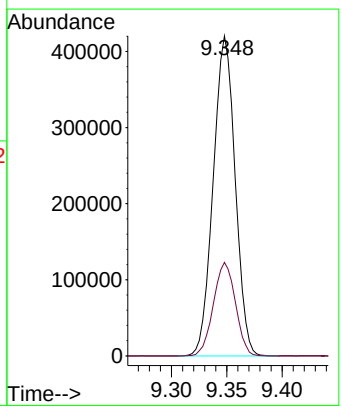
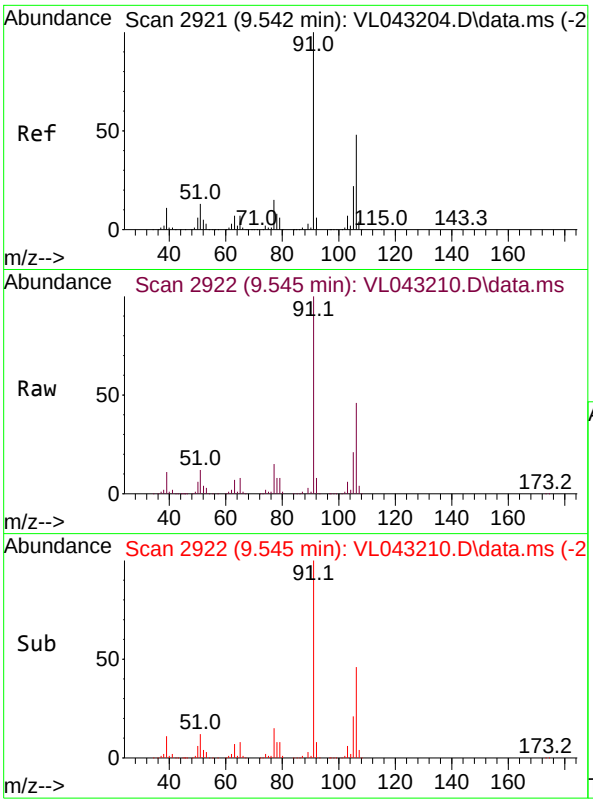


#58
Ethyl Benzene
Concen: 14.262 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 579890

Ion	Ratio	Lower	Upper
91	100		
106	29.2	22.8	34.2

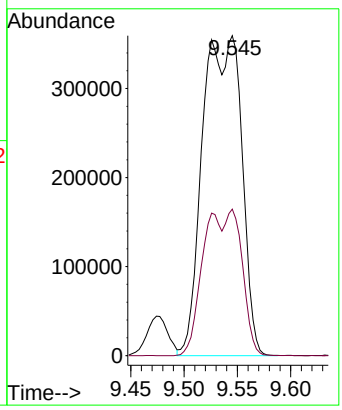




#59
m/p-Xylene
Concen: 28.000 ppbv m
RT: 9.545 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 91611

Ion	Ratio	Lower	Upper
91	100		
106	45.1	36.1	54.1



Instrument :
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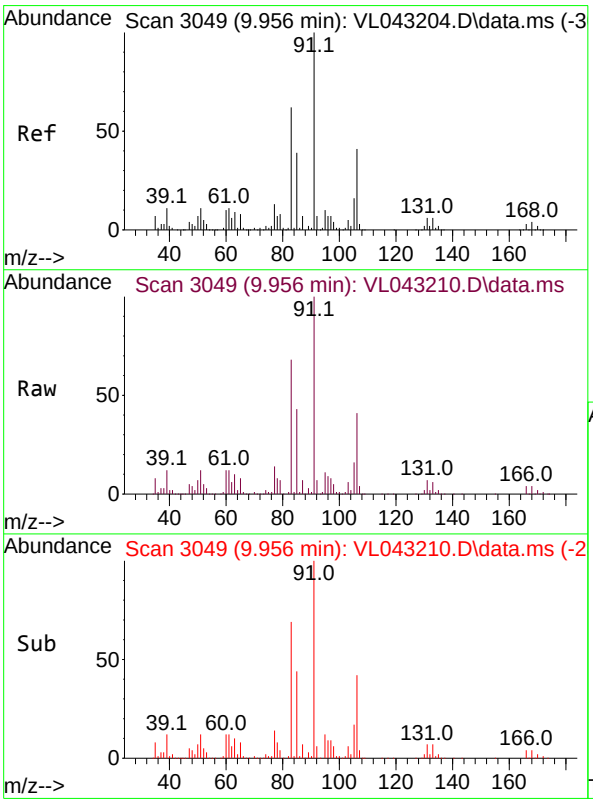
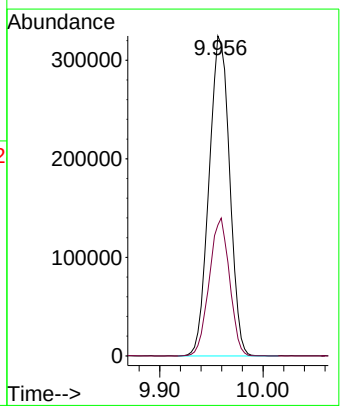
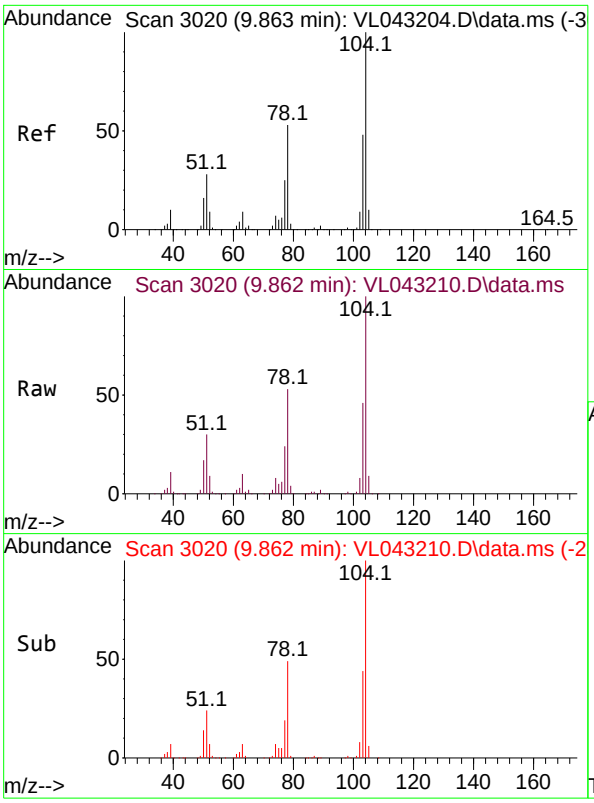


#60
o-Xylene
Concen: 13.826 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 450260

Ion	Ratio	Lower	Upper
91	100		
106	42.4	20.9	62.8

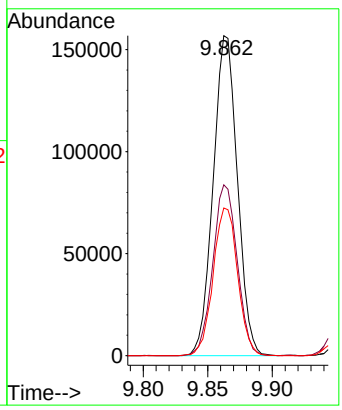




#61
Styrene
Concen: 14.382 ppbv
RT: 9.862 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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 :
MSVOA_L
ClientSampleId :
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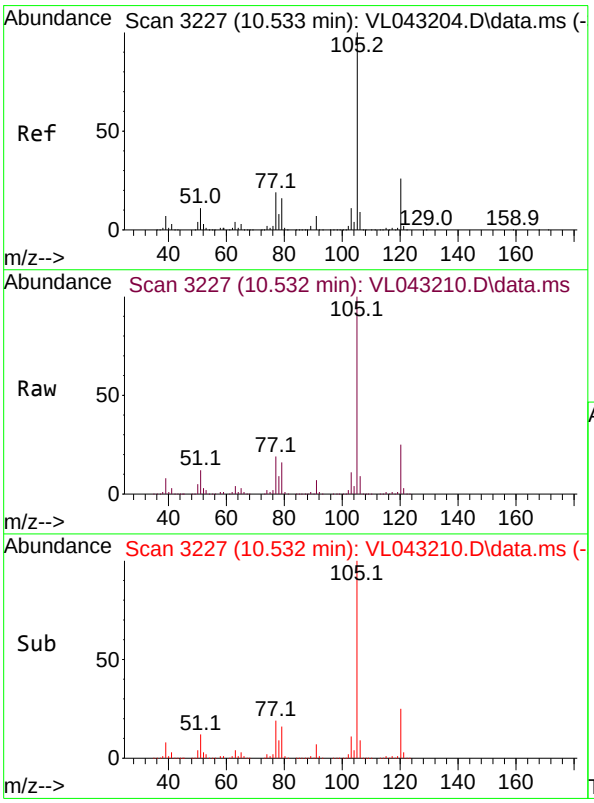
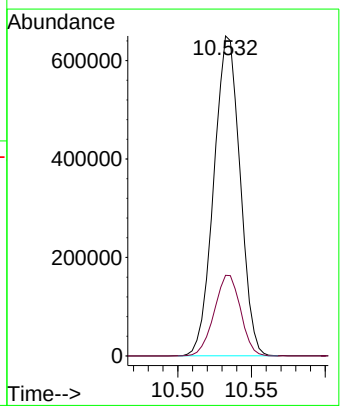
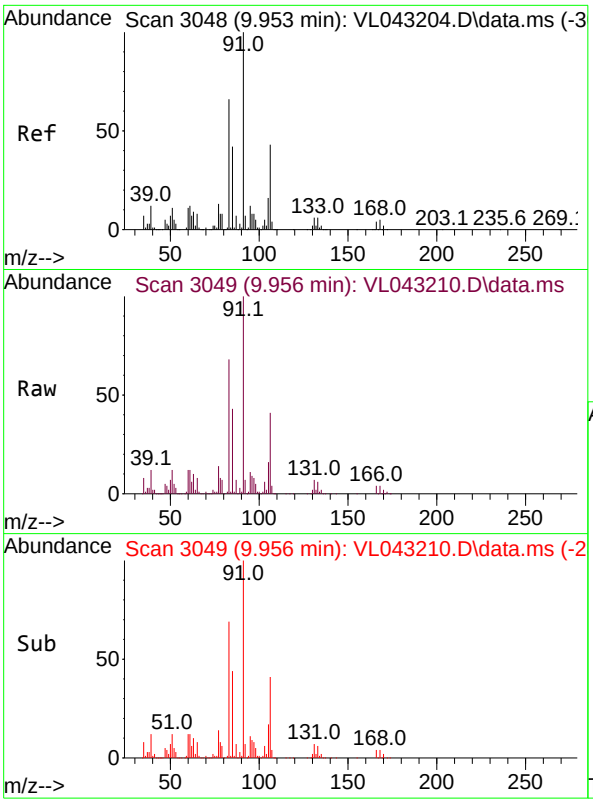


#62
Isopropylbenzene
Concen: 13.791 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:105 Resp: 803487

Ion	Ratio	Lower	Upper
105	100		
120	25.3	19.8	29.8

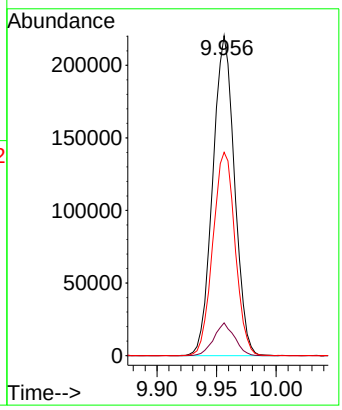




#63
1,1,2,2-Tetrachloroethane
Concen: 13.557 ppbv
RT: 9.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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 :
MSVOA_L
ClientSampleId :
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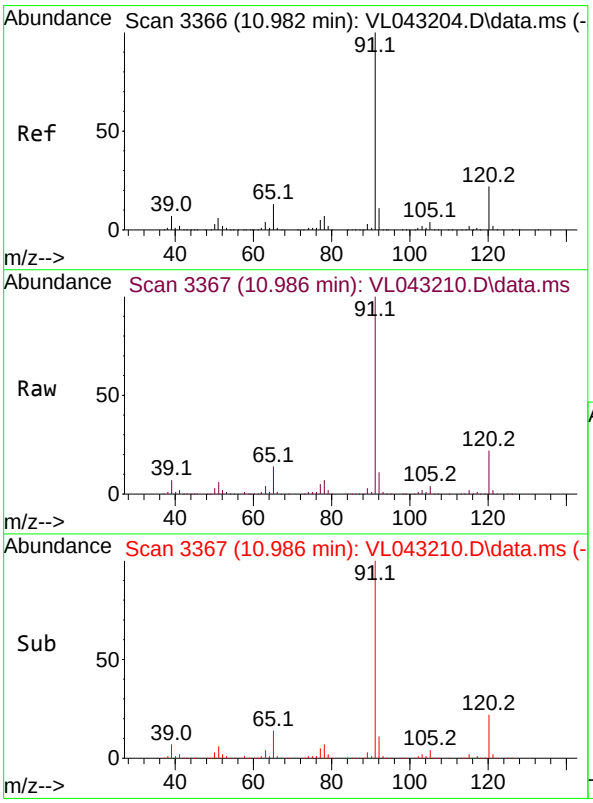
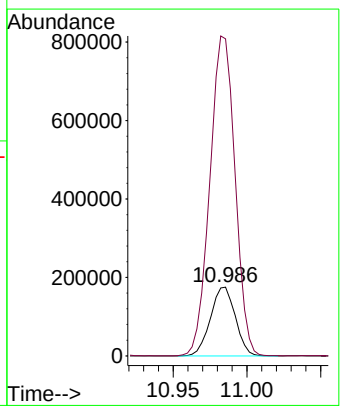
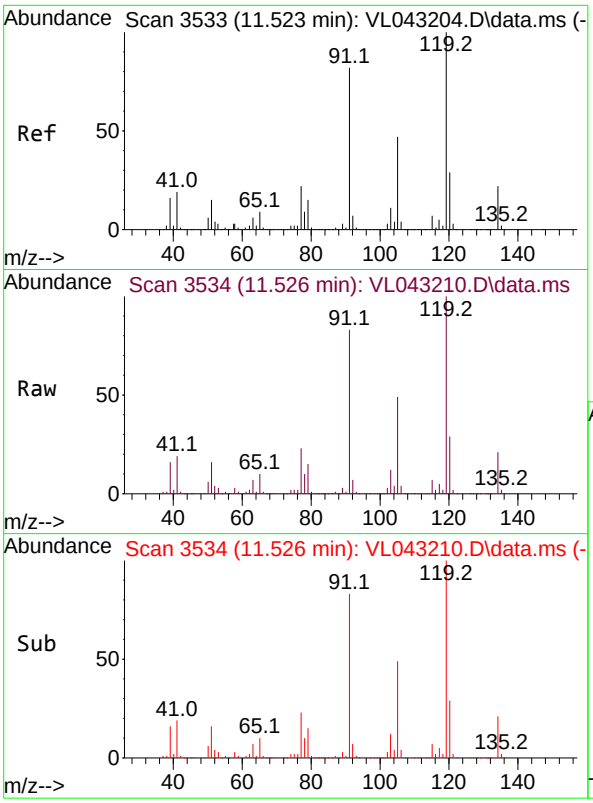


#64
n-propylbenzene
Concen: 13.737 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:120 Resp: 205637

Ion	Ratio	Lower	Upper
120	100		
91	471.6	377.1	565.7

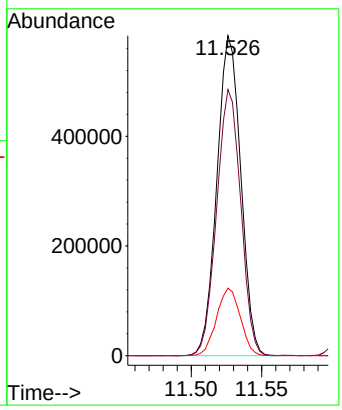




#65
tert-Butylbenzene
Concen: 13.249 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

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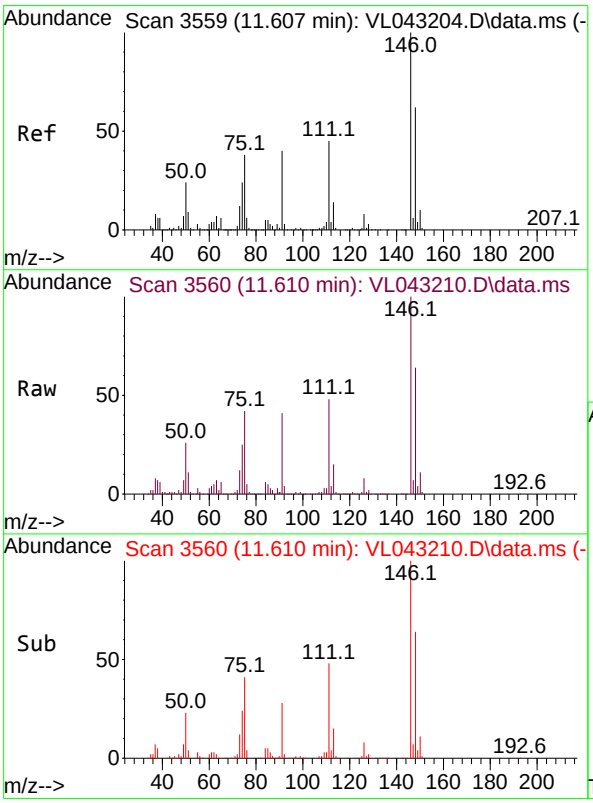
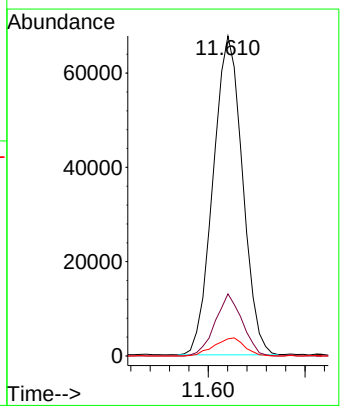
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

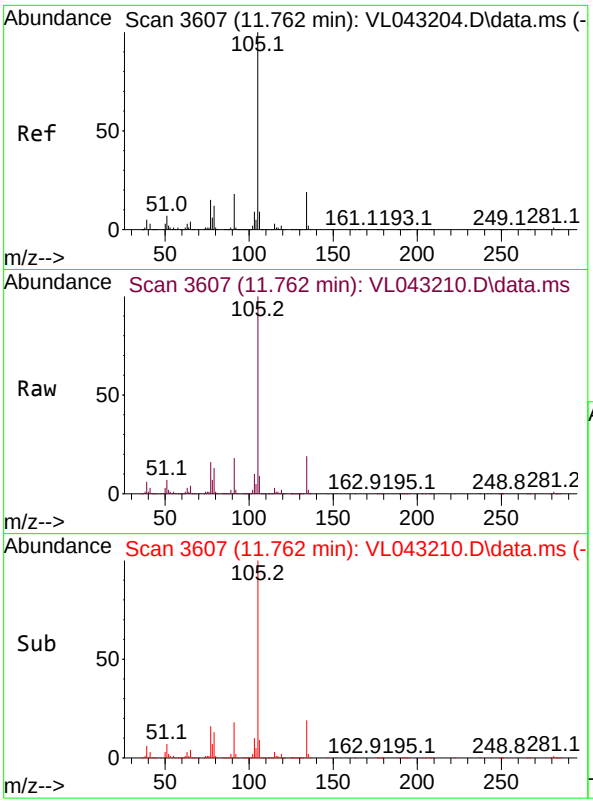


#66
Benzyl Chloride
Concen: 13.520 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

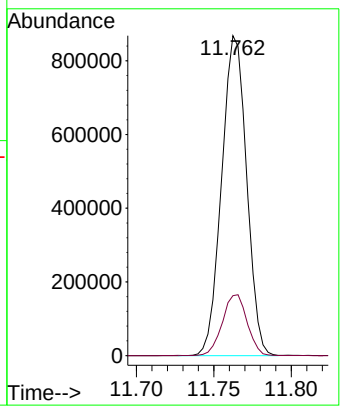




#67
sec-Butylbenzene
Concen: 13.394 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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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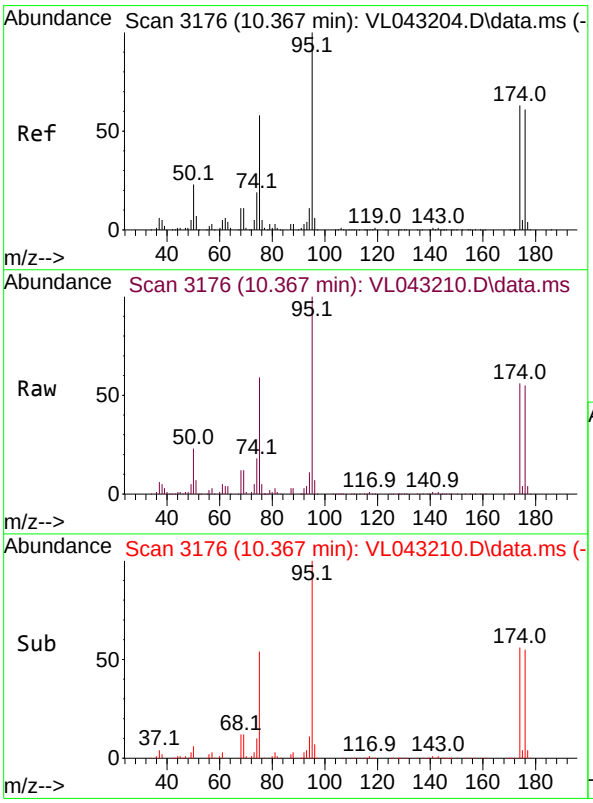
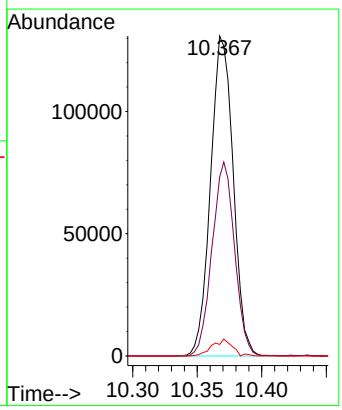
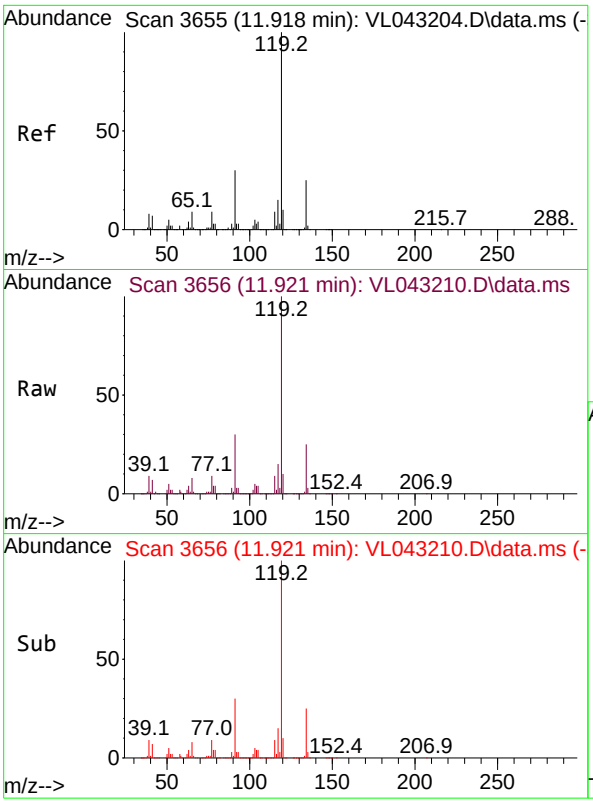


#68
1-Bromo-4-Fluorobenzene
Concen: 10.321 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

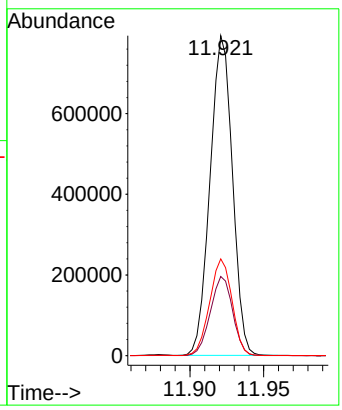




#69
p-Isopropyltoluene
Concen: 13.602 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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 :
VSTDICC015

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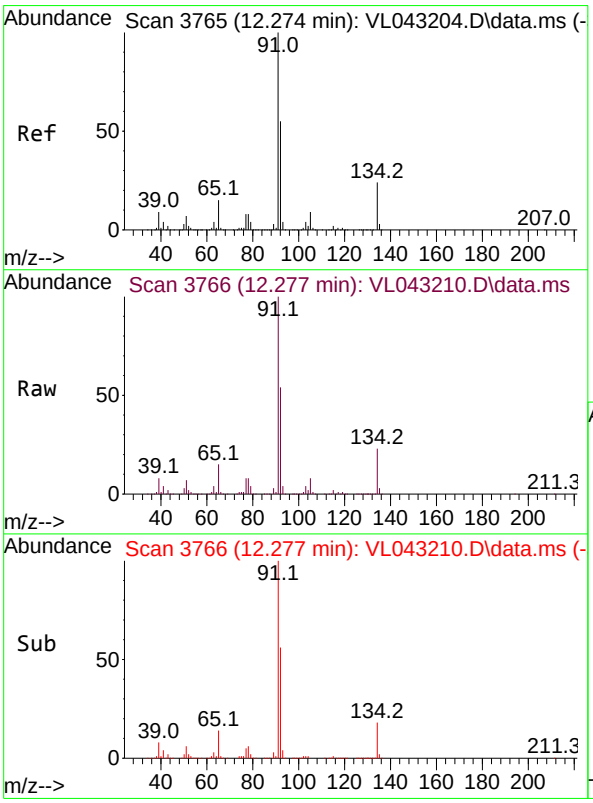
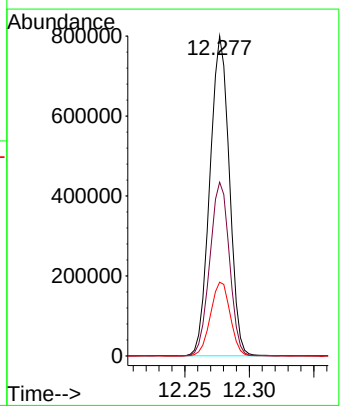
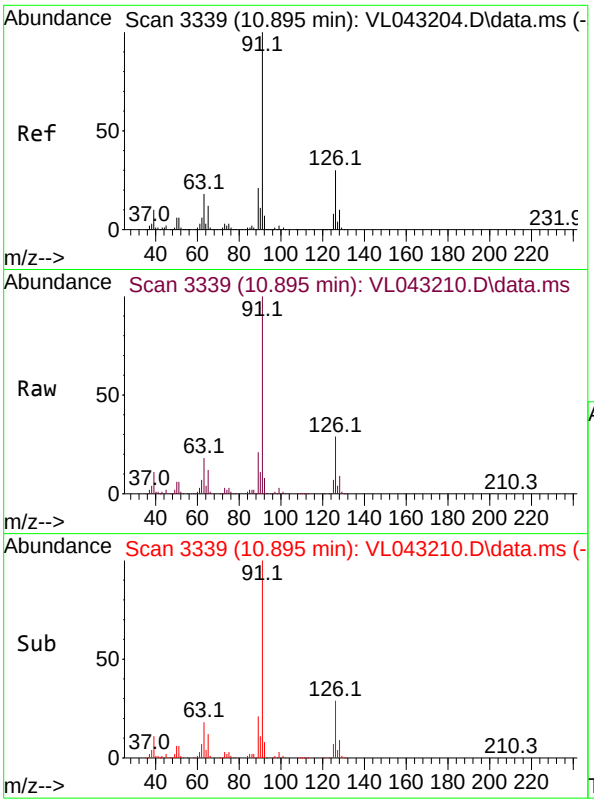


#70
n-Butylbenzene
Concen: 14.050 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

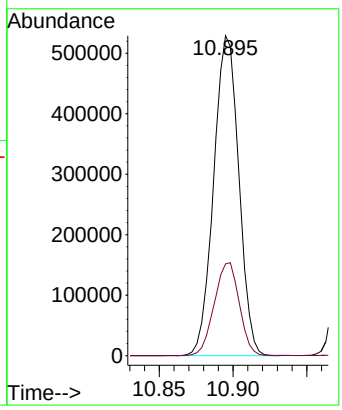




#71
2-Chlorotoluene
Concen: 13.976 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 62588

Ion	Ratio	Lower	Upper
91	100		
126	28.9	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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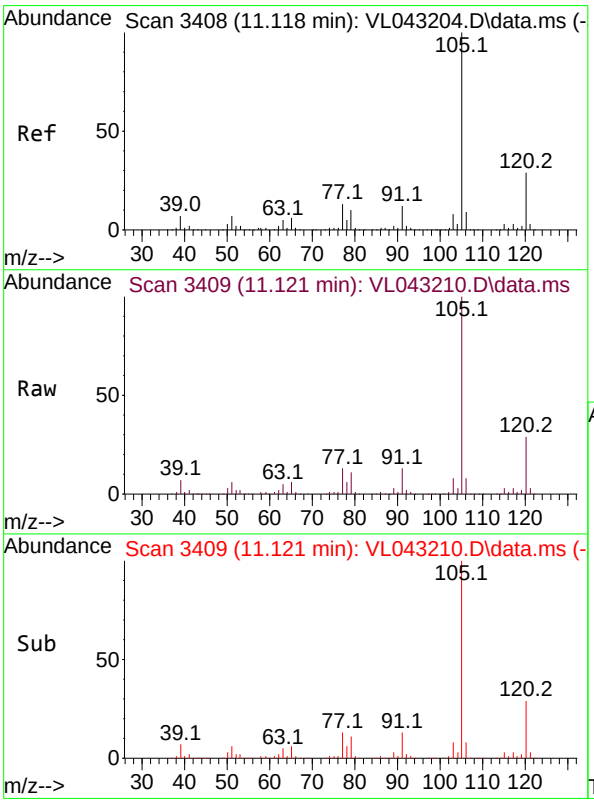
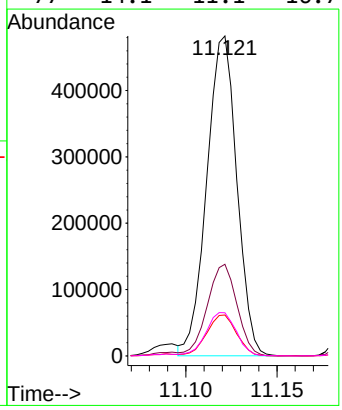
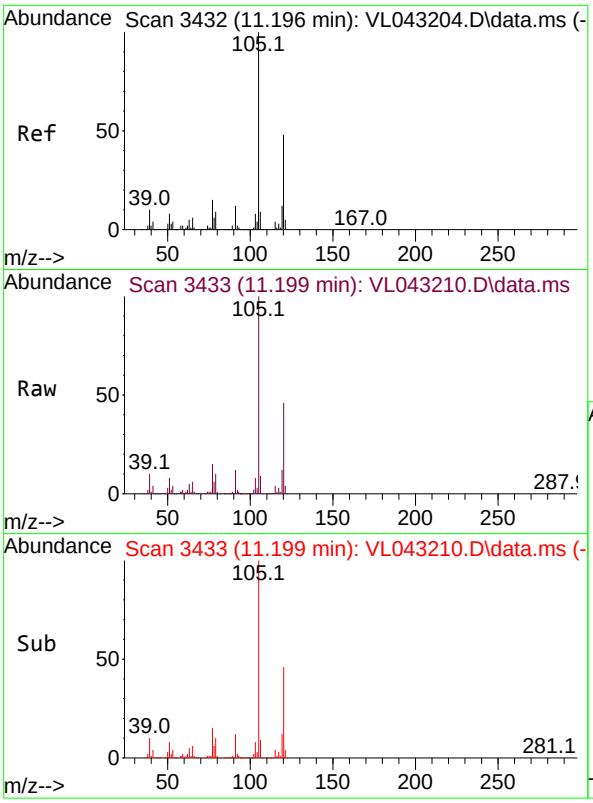


#72
4-Ethyltoluene
Concen: 13.961 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

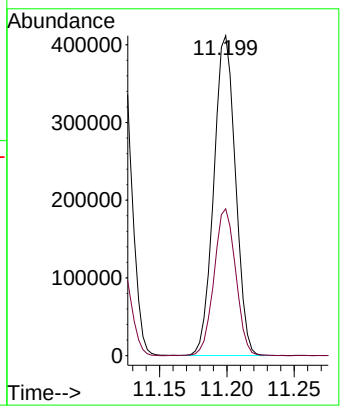




#73
1,3,5-Trimethylbenzene
Concen: 13.846 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:105 Resp: 46078

Ion	Ratio	Lower	Upper
105	100		
120	45.9	38.6	57.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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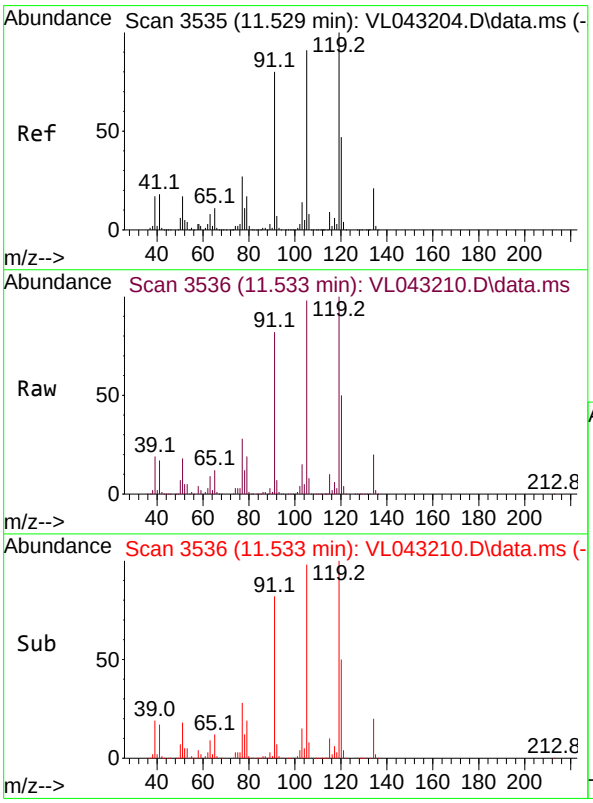
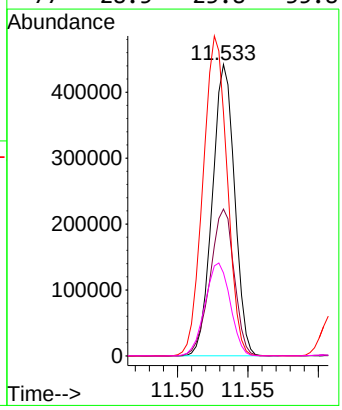
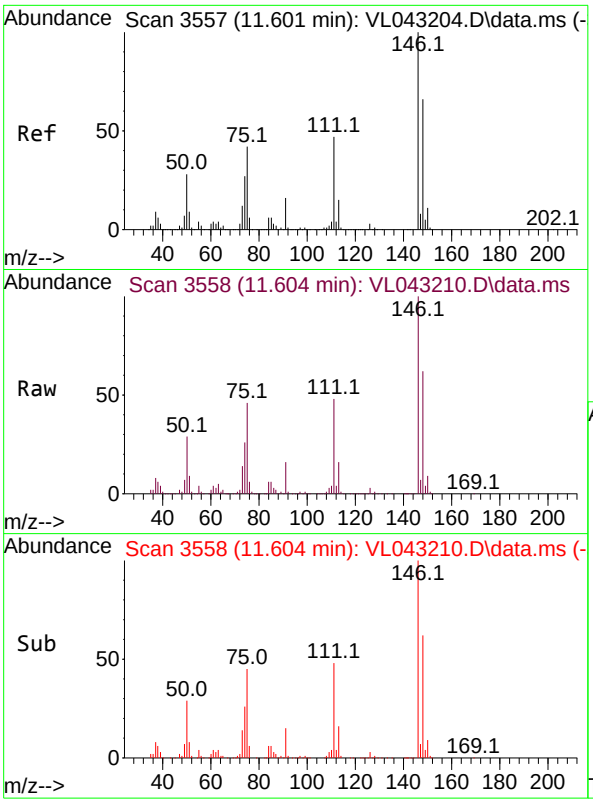


#74
1,2,4-Trimethylbenzene
Concen: 13.409 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

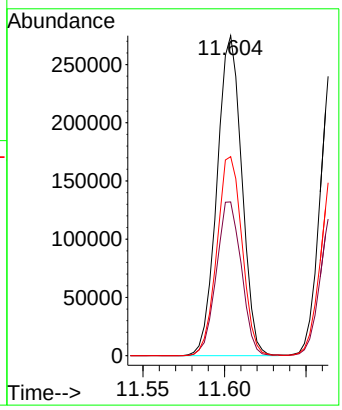




#75
1,3-Dichlorobenzene
Concen: 13.784 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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
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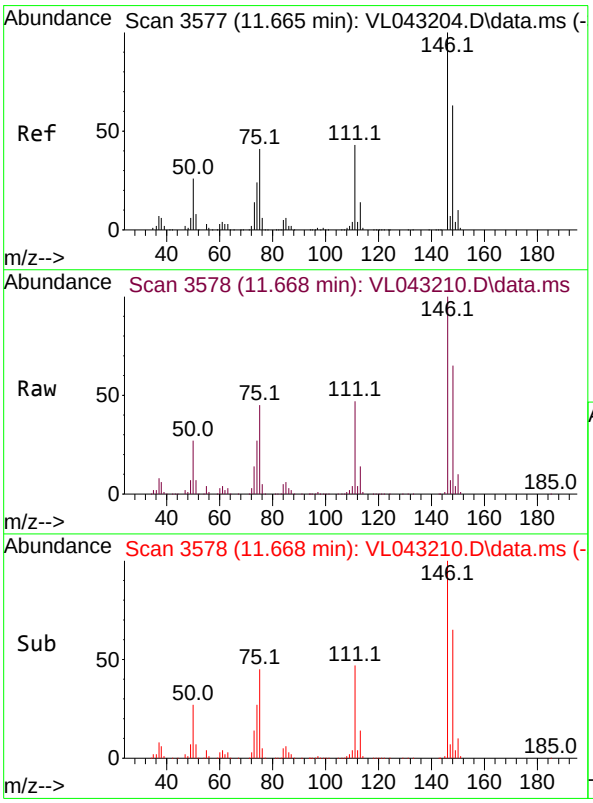
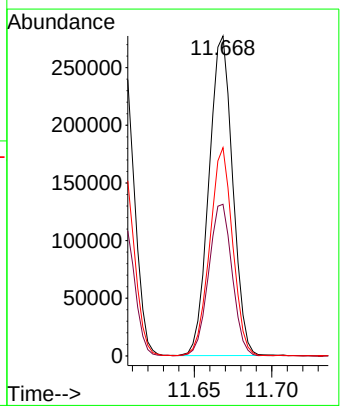
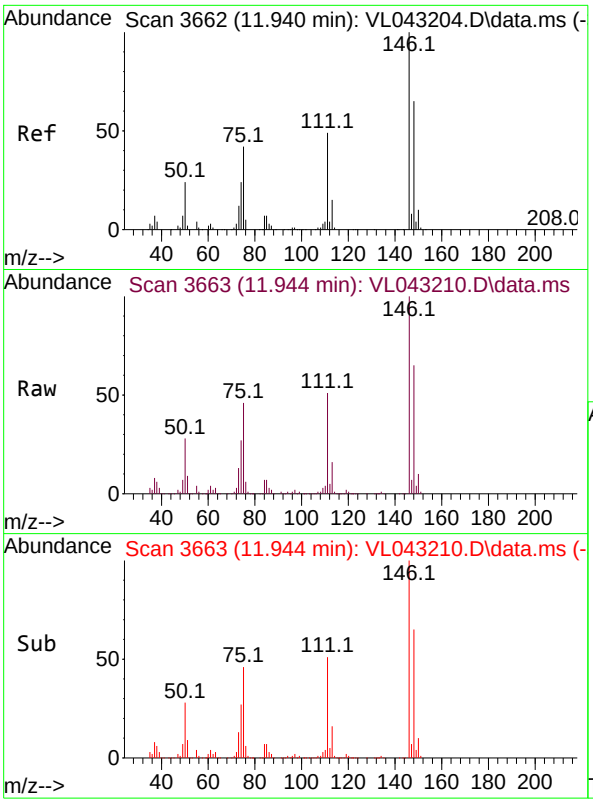


#76
1,4-Dichlorobenzene
Concen: 13.903 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

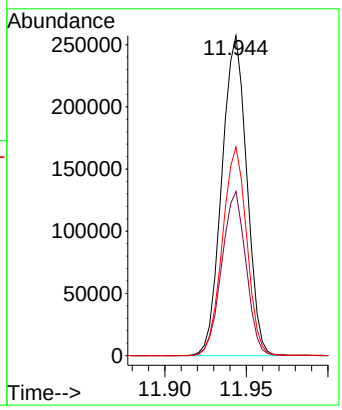




#77
1,2-Dichlorobenzene
Concen: 13.420 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

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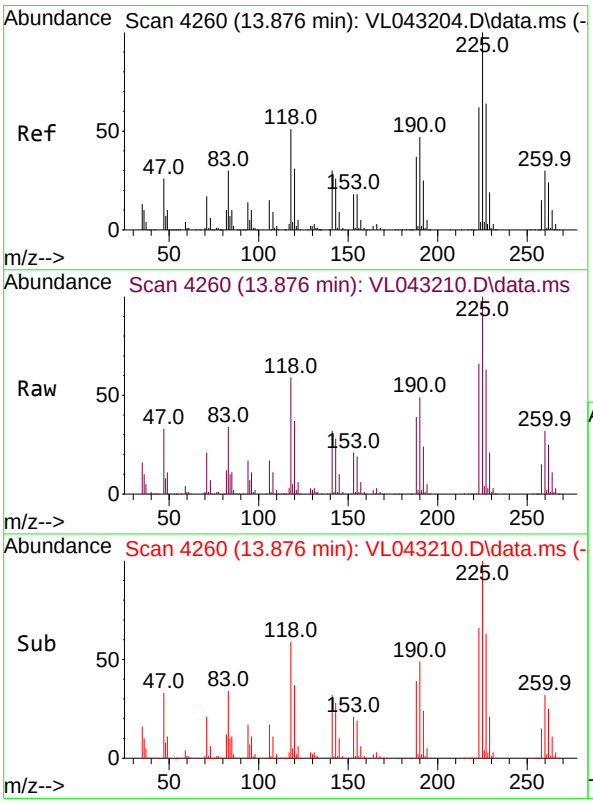
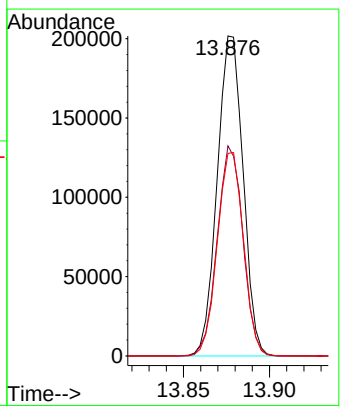
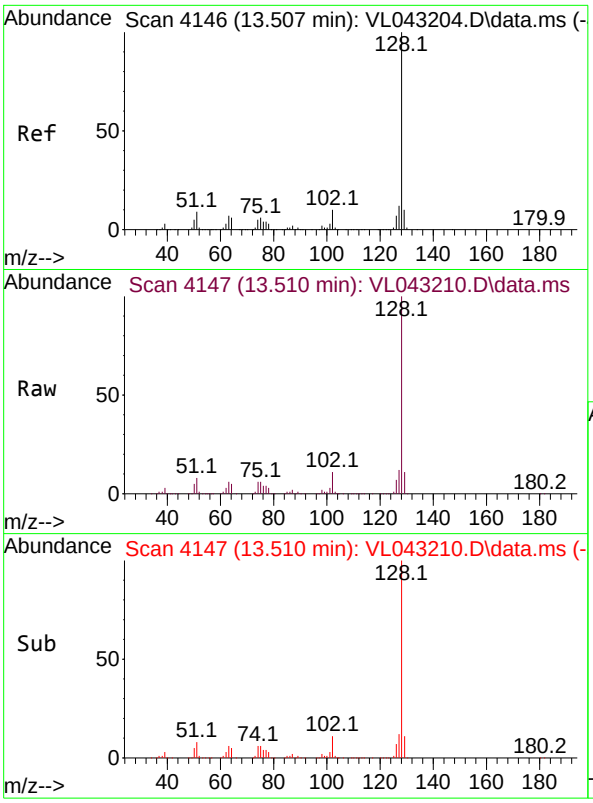


#78
Hexachloro-1,3-Butadiene
Concen: 12.416 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

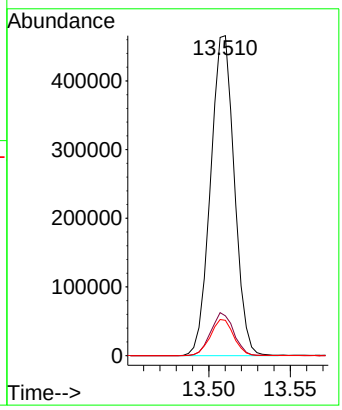




#79
Naphthalene
Concen: 14.670 ppbv
RT: 13.510 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

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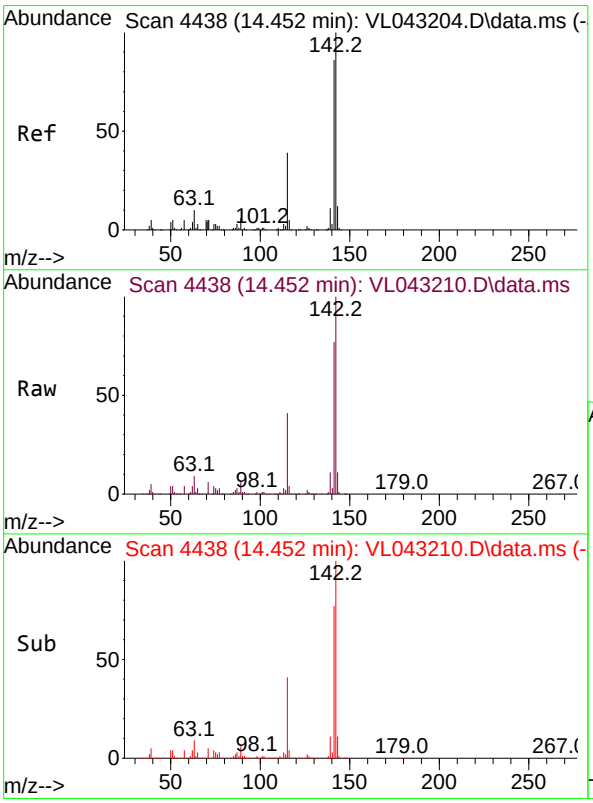
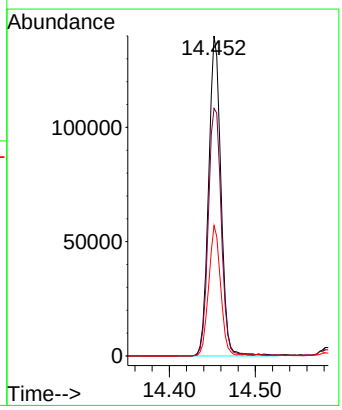
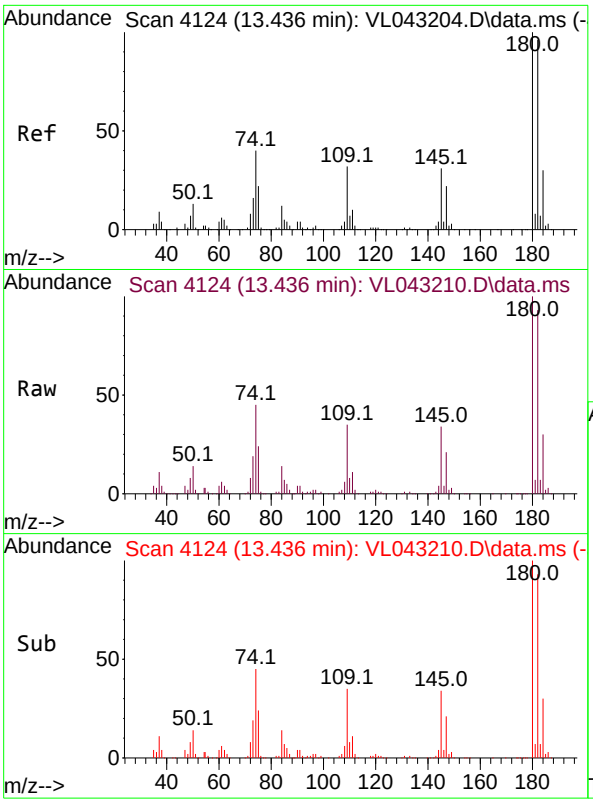


#80
Naphthalene,2-methyl-
Concen: 16.418 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

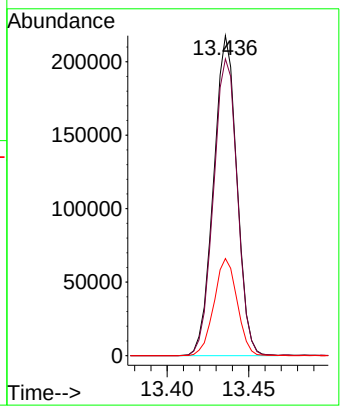




#81
1,2,4-Trichlorobenzene
Concen: 14.990 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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
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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

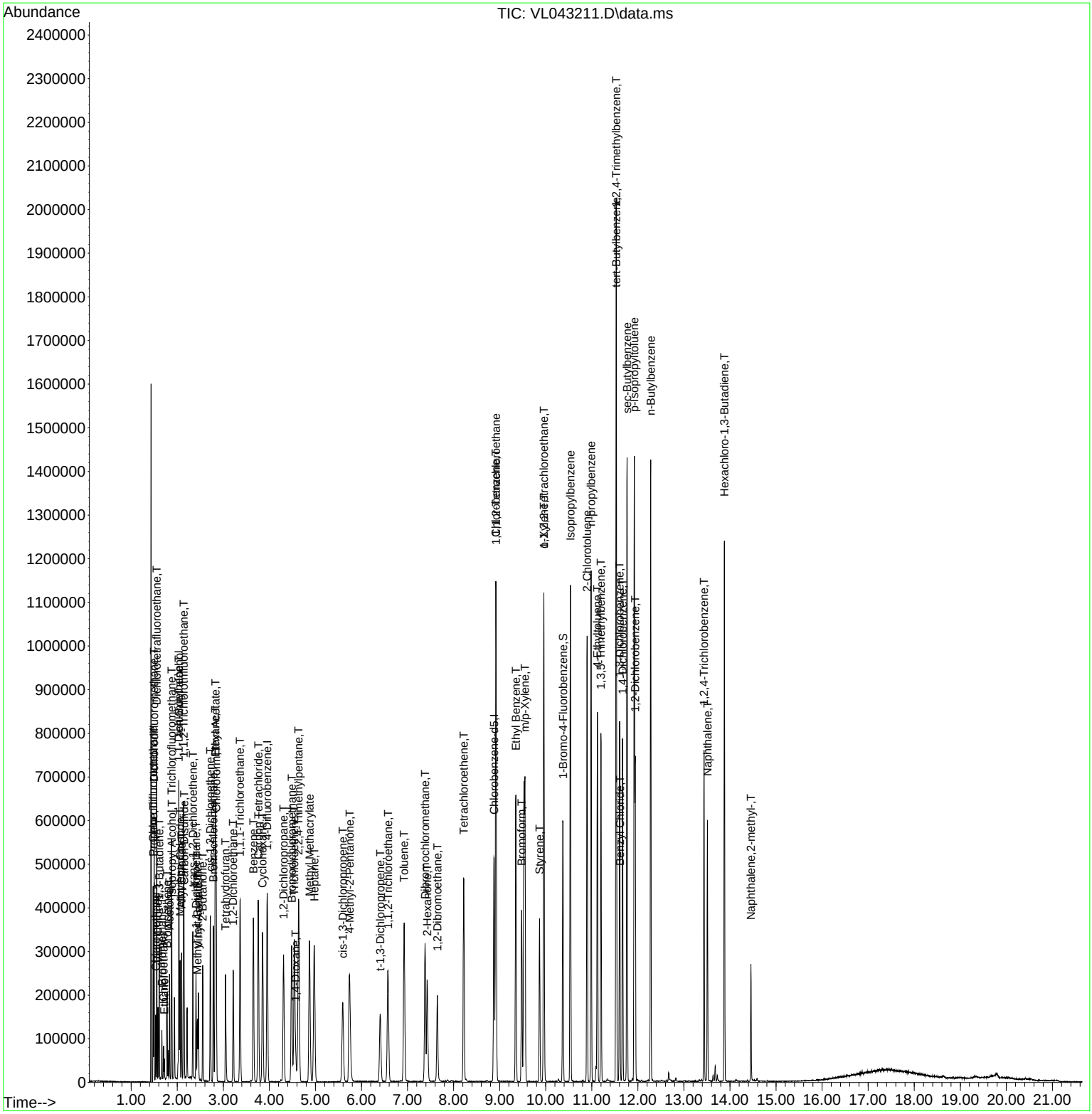
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

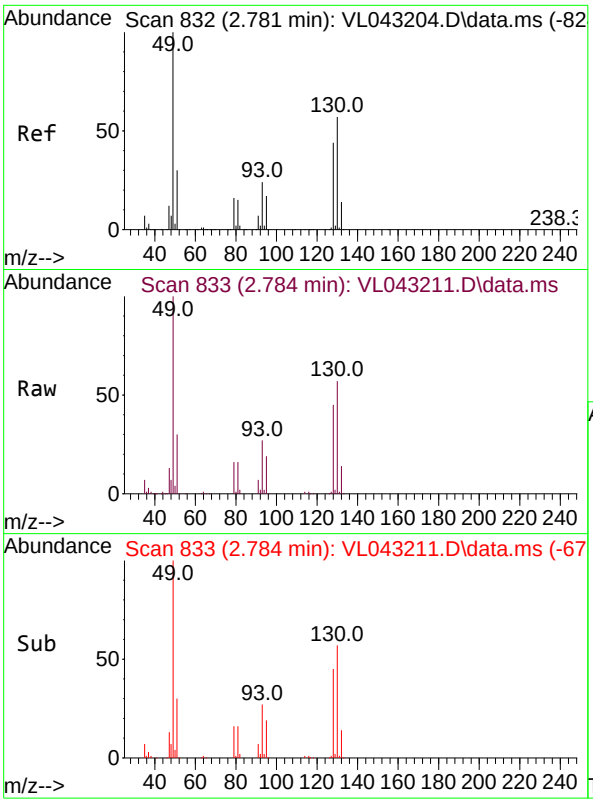
Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations APPROVED

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

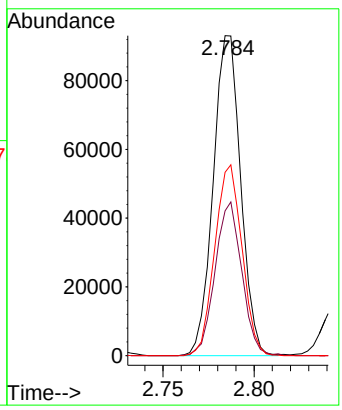




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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
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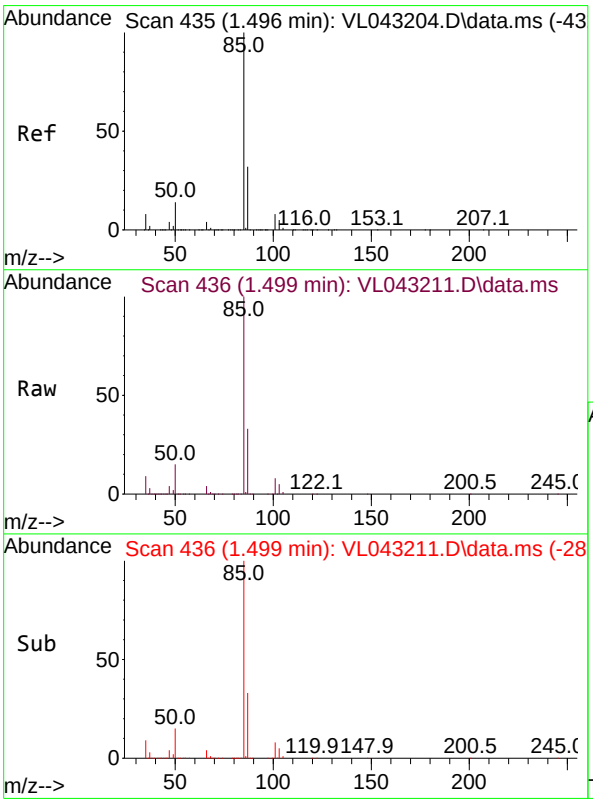
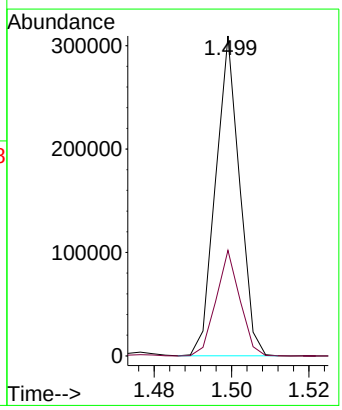
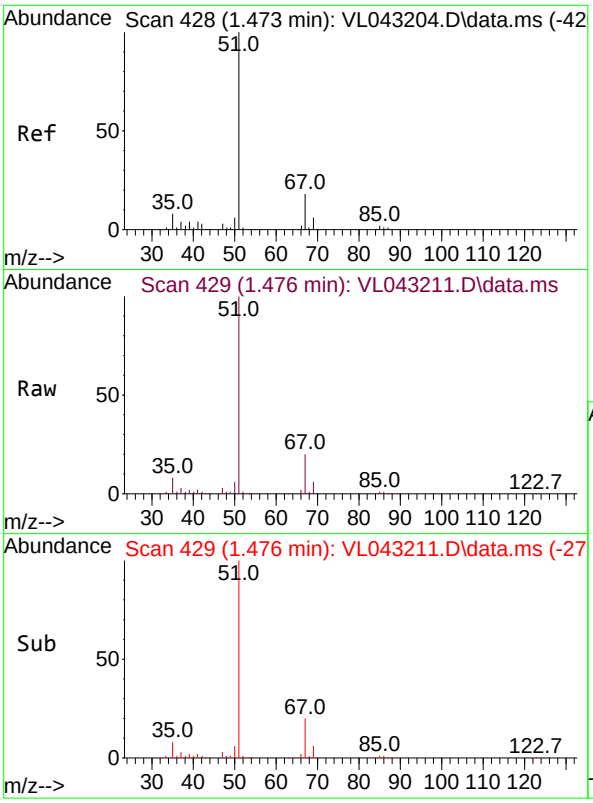


#2
Dichlorodifluoromethane
Concen: 9.664 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 85 Resp: 133374

Ion	Ratio	Lower	Upper
85	100		
87	33.0	25.4	38.2

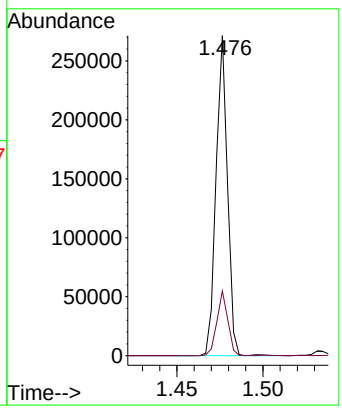




#3
Chlorodifluoromethane
Concen: 9.199 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 51 Resp: 12485

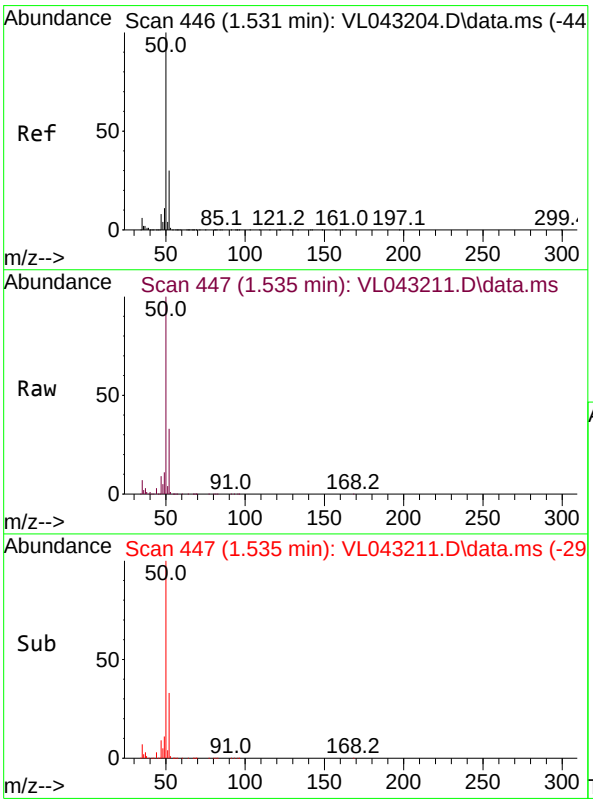
Ion	Ratio	Lower	Upper
51	100		
67	19.6	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations
APPROVED

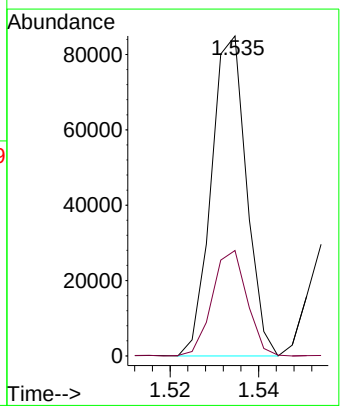
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

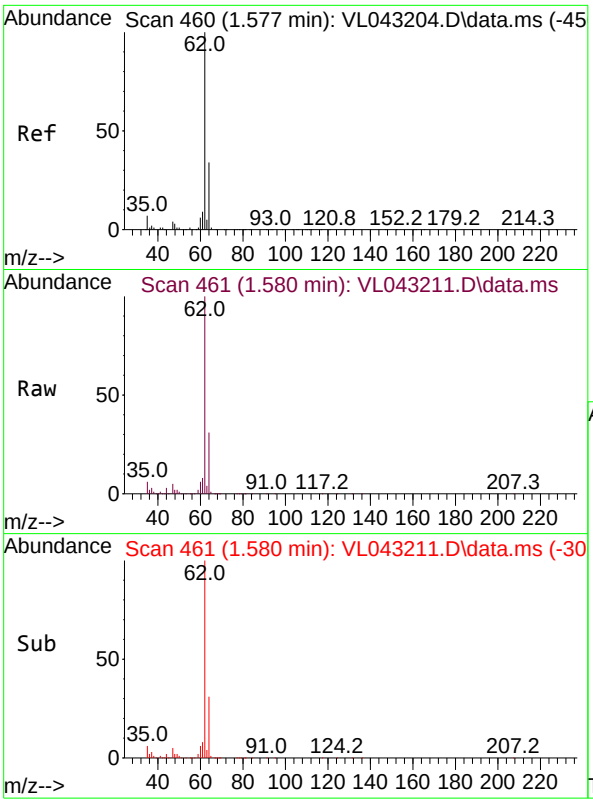


#4
Chloromethane
Concen: 9.090 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 50 Resp: 46906

Ion	Ratio	Lower	Upper
50	100		
52	32.8	24.1	36.1

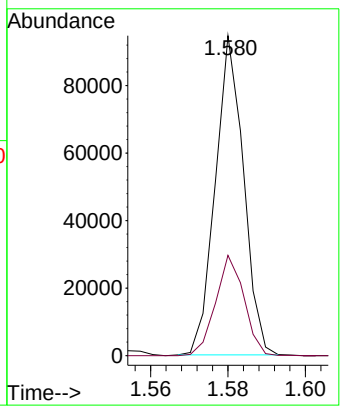




#5
Vinyl Chloride
Concen: 8.493 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 62 Resp: 4793

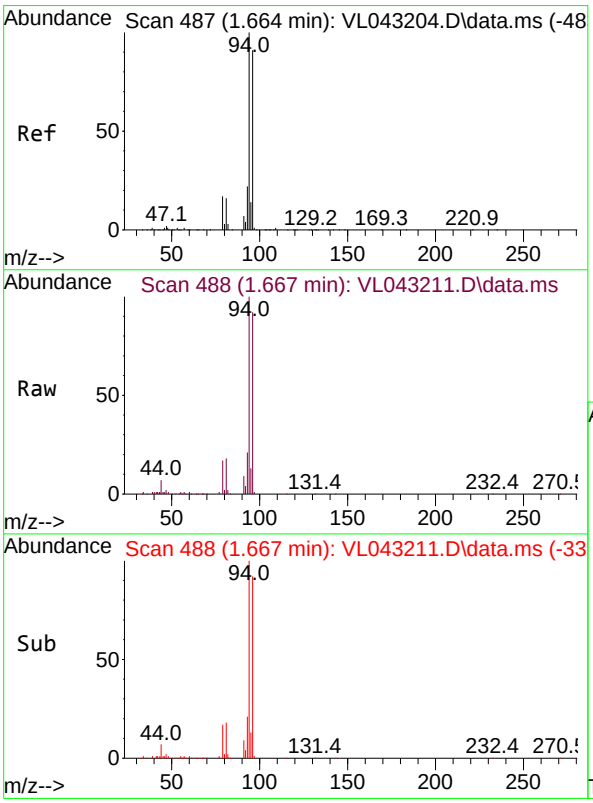
Ion	Ratio	Lower	Upper
62	100		
64	31.4	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations
APPROVED

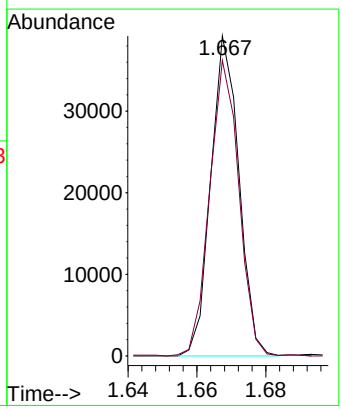
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

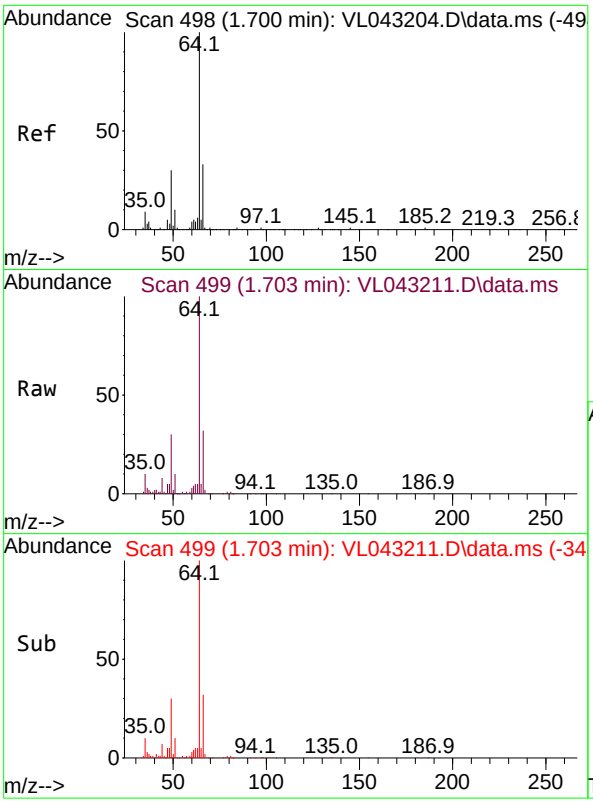


#6
Bromomethane
Concen: 8.126 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 94 Resp: 22230

Ion	Ratio	Lower	Upper
94	100		
96	92.2	72.9	109.3

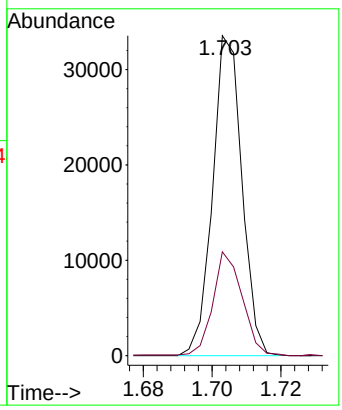




#7
Chloroethane
Concen: 9.033 ppbv
RT: 1.703 min Scan# 49
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 64 Resp: 1985

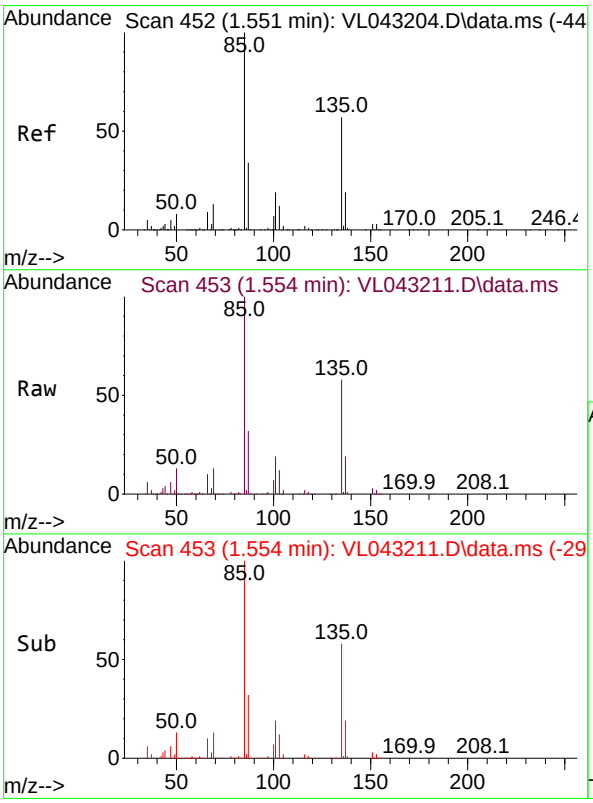
Ion	Ratio	Lower	Upper
64	100		
66	32.4	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations
APPROVED

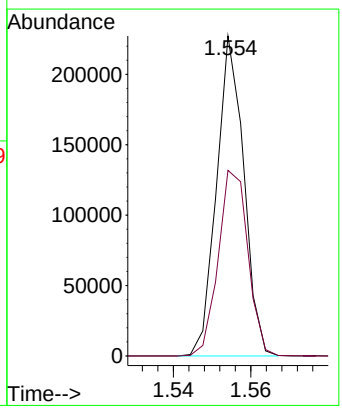
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

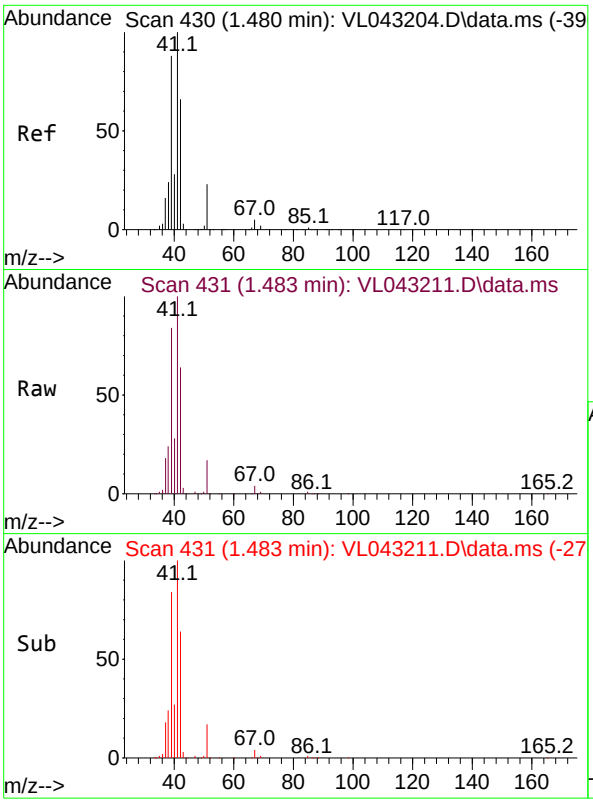


#8
Dichlorotetrafluoroethane
Concen: 9.632 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 85 Resp: 110587

Ion	Ratio	Lower	Upper
85	100		
135	63.5	52.6	79.0

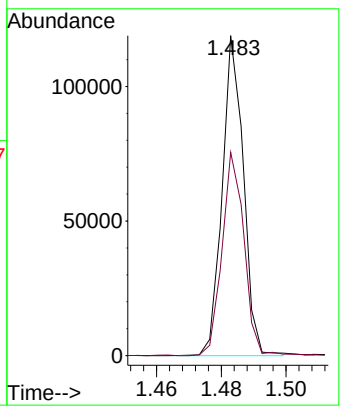




#9
Propene
Concen: 9.370 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 41 Resp: 5400

Ion	Ratio	Lower	Upper
41	100		
42	4.4	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations
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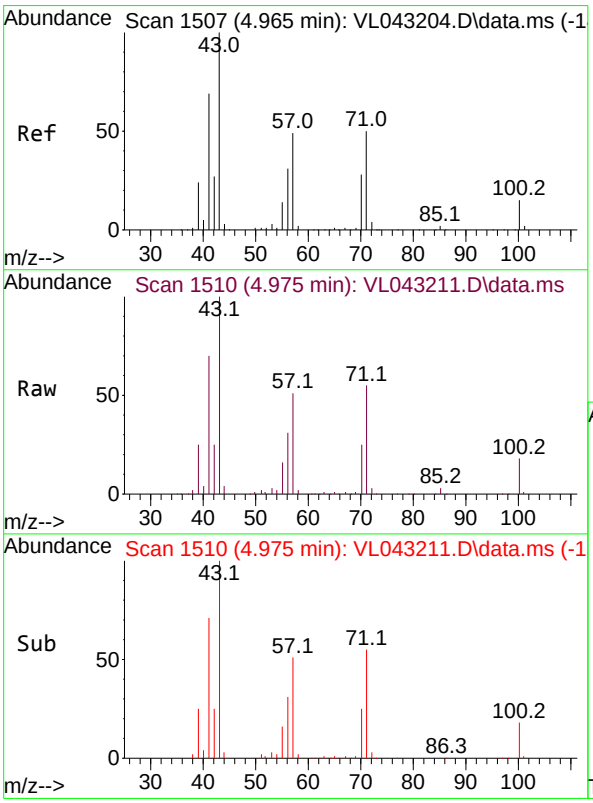
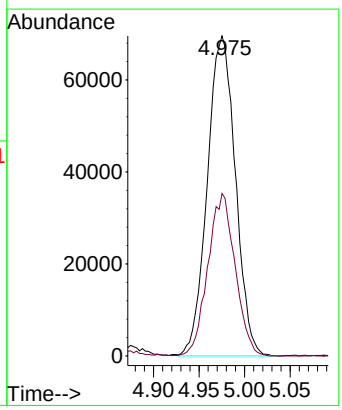
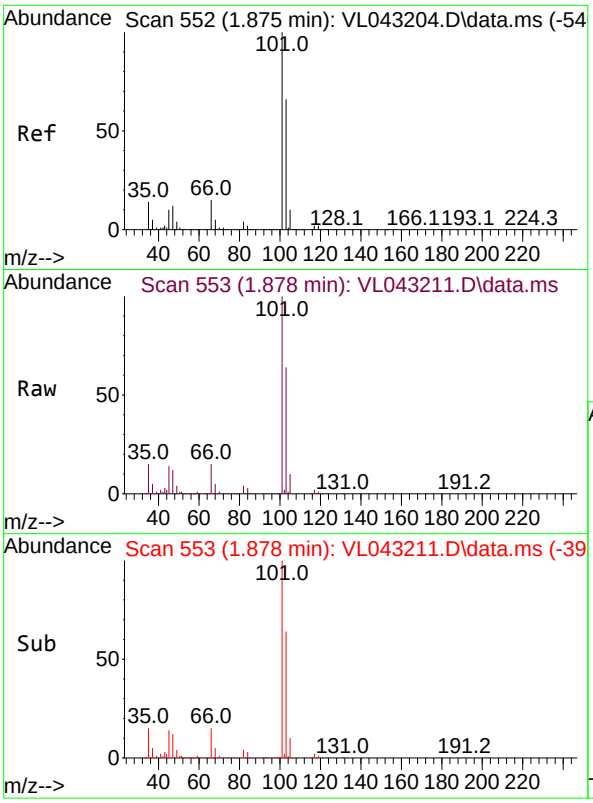


#10
Heptane
Concen: 8.698 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 149202

Ion	Ratio	Lower	Upper
43	100		
57	49.1	39.7	59.5

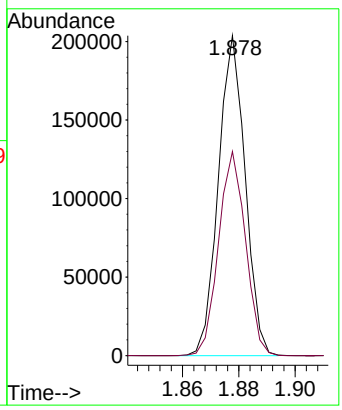




#11
Trichlorofluoromethane
Concen: 10.077 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:101 Resp: 13474

Ion	Ratio	Lower	Upper
101	100		
103	63.8	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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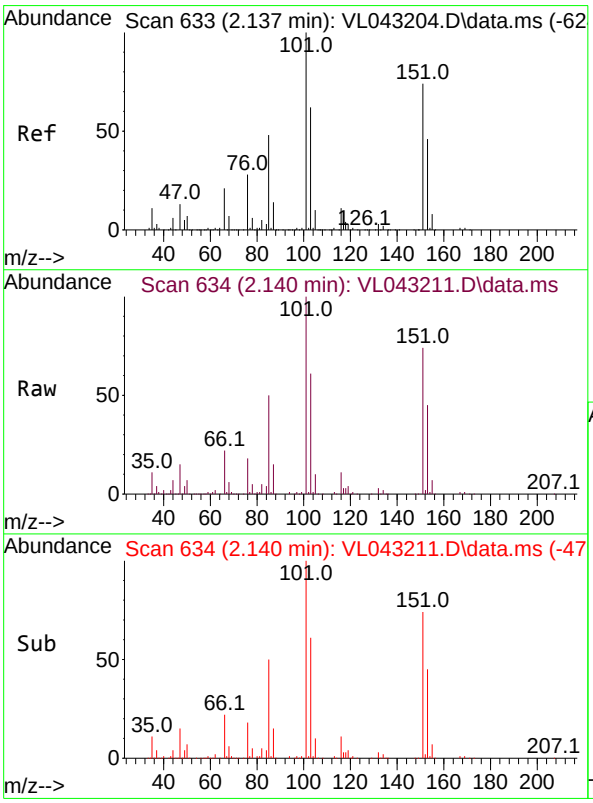
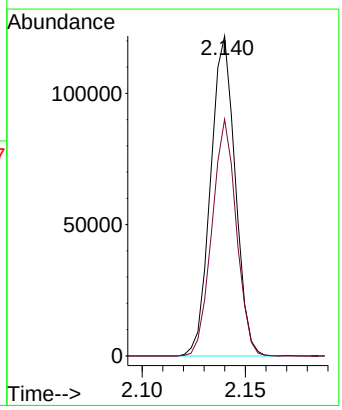
Supervised By :Mahesh Dadoda 11/19/2025

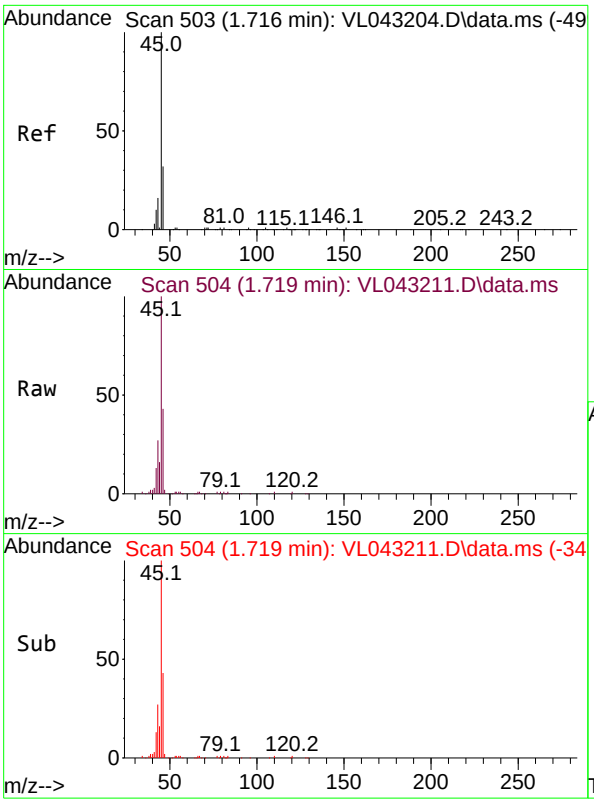


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.673 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:101 Resp: 100984

Ion	Ratio	Lower	Upper
101	100		
151	73.1	59.2	88.8

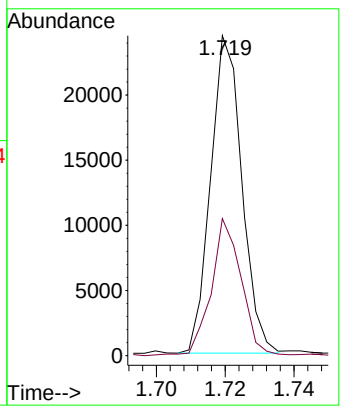




#13
Ethanol
Concen: 7.584 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 45 Resp: 1537

Ion	Ratio	Lower	Upper
45	100		
46	42.2	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
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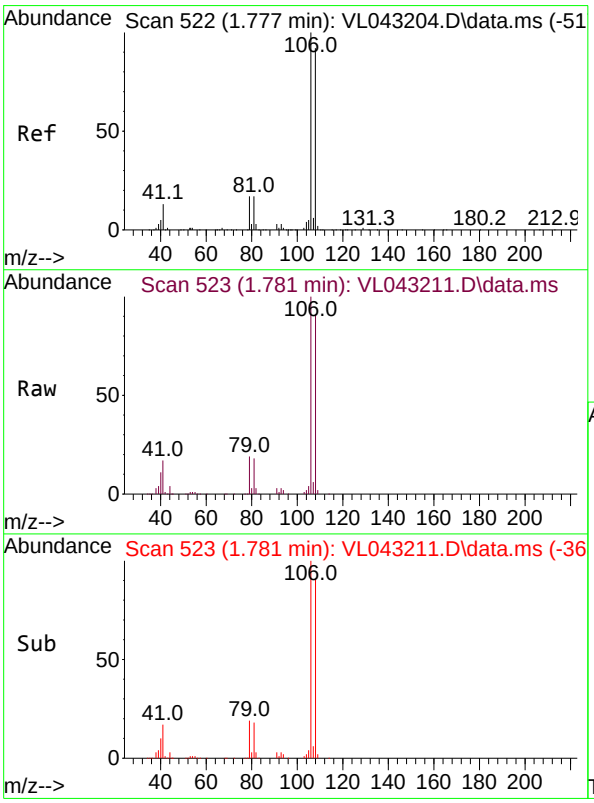
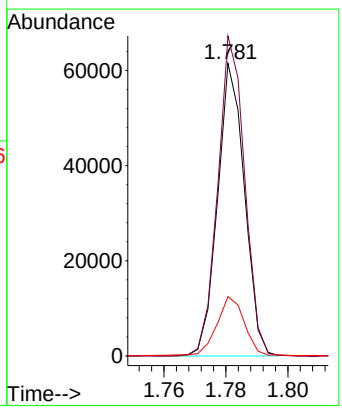
Supervised By :Mahesh Dadoda 11/19/2025

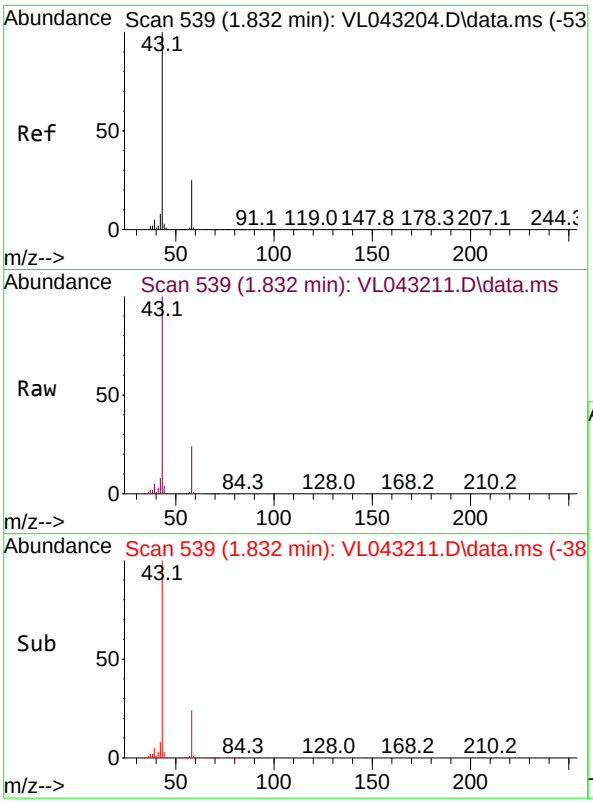


#14
Bromoethene
Concen: 9.240 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

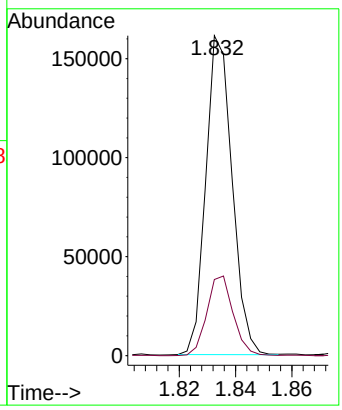




#15
Acetone
Concen: 7.711 ppbv
RT: 1.832 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 10483

Ion	Ratio	Lower	Upper
43	100		
58	25.2	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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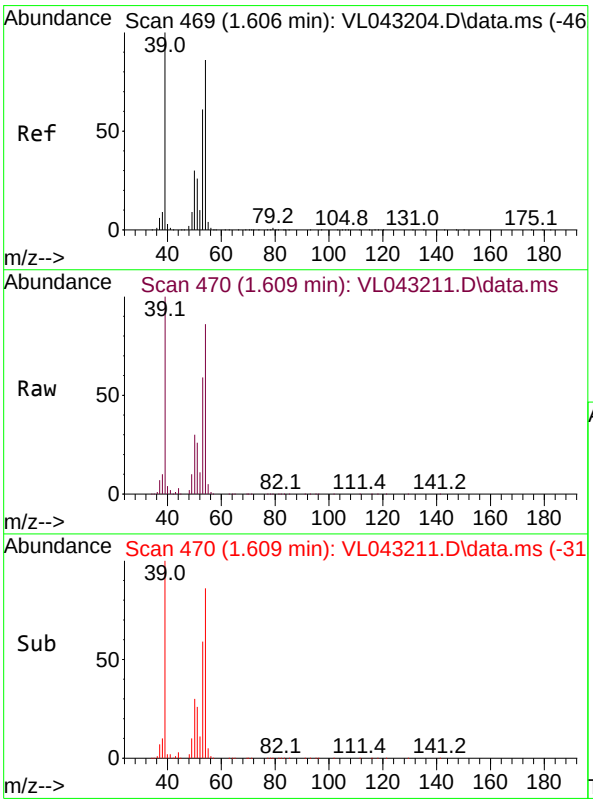
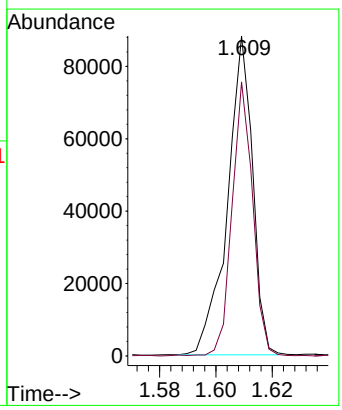
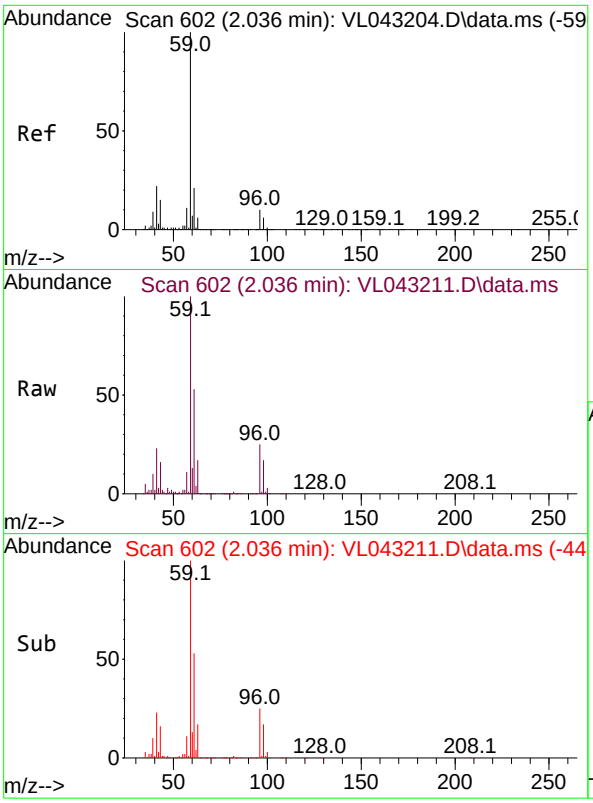


#16
1,3-Butadiene
Concen: 9.041 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 39 Resp: 54795

Ion	Ratio	Lower	Upper
39	100		
54	71.3	59.4	89.2

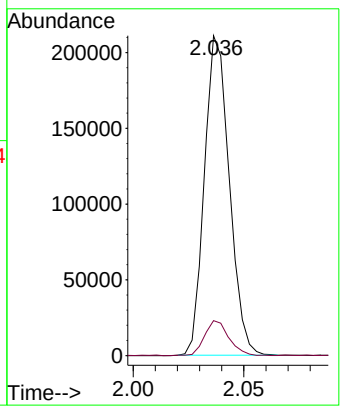




#17
tert-Butyl alcohol
Concen: 9.245 ppbv
RT: 2.036 min Scan# 6(
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 59 Resp: 16498

Ion	Ratio	Lower	Upper
59	100		
57	10.8	9.0	13.4



Instrument :
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ClientSampleId :
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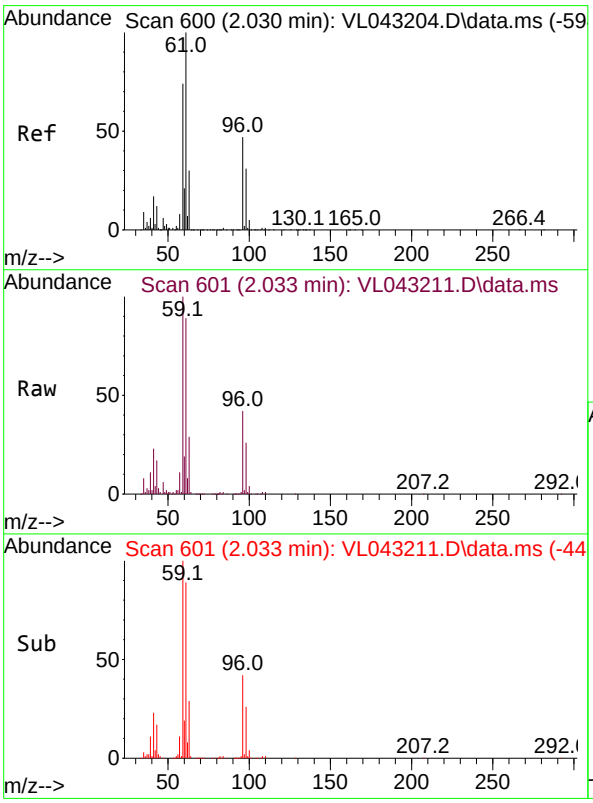
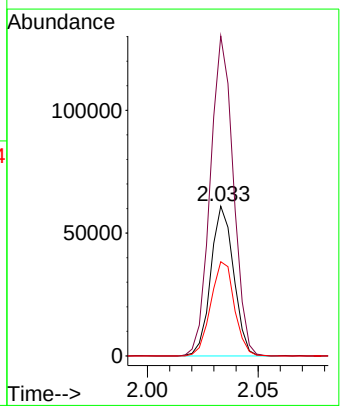
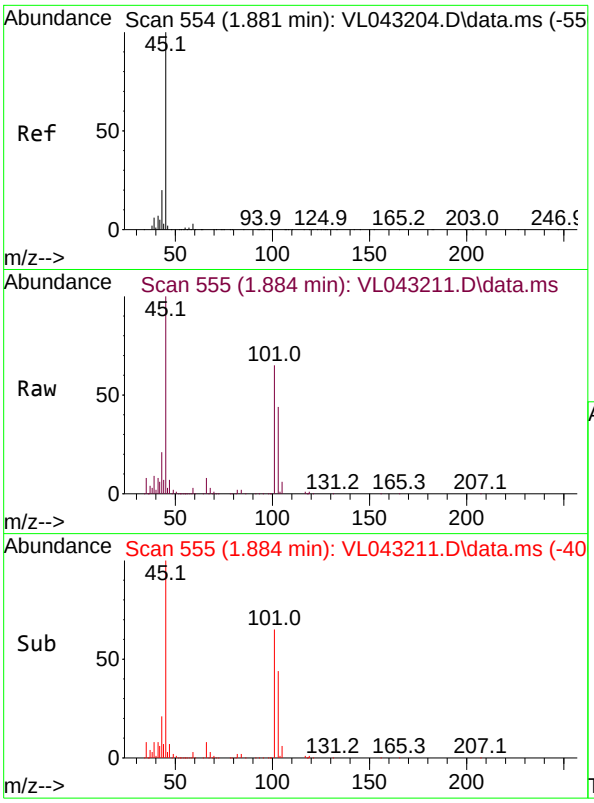


#18
1,1-Dichloroethene
Concen: 9.017 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

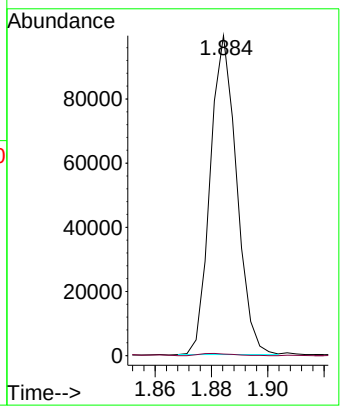




#19
Isopropyl Alcohol
Concen: 8.431 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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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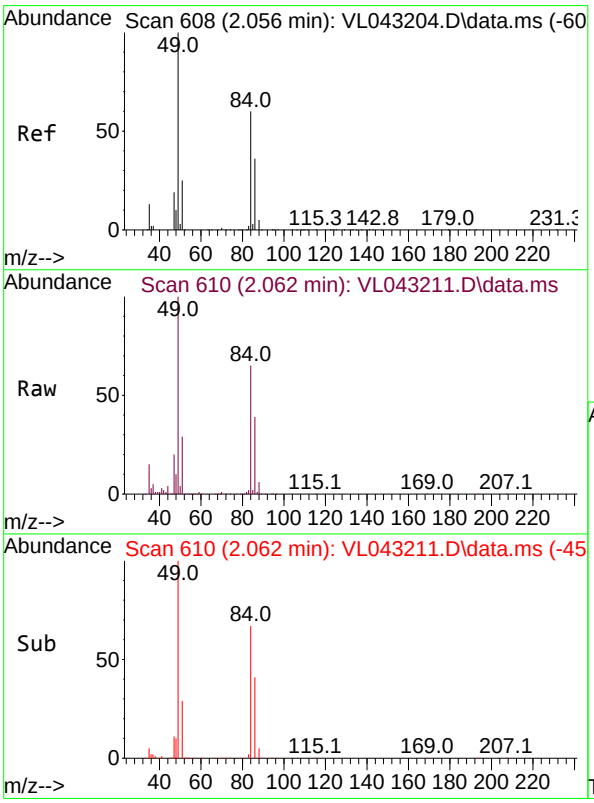
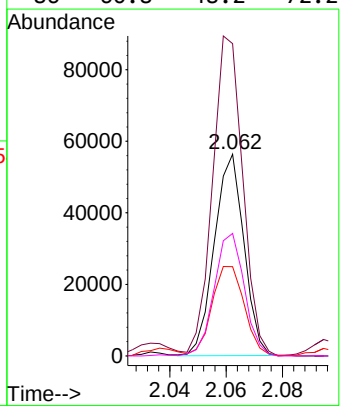
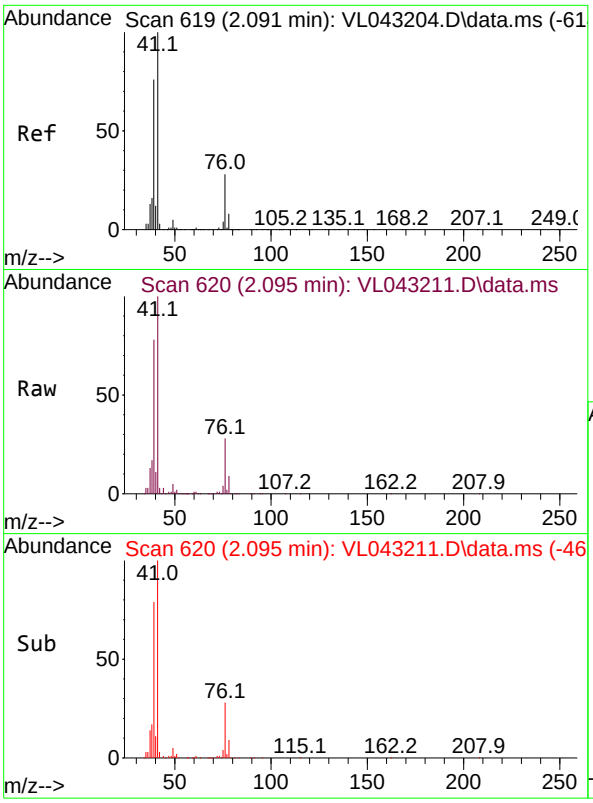


#20
Methylene Chloride
Concen: 10.323 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

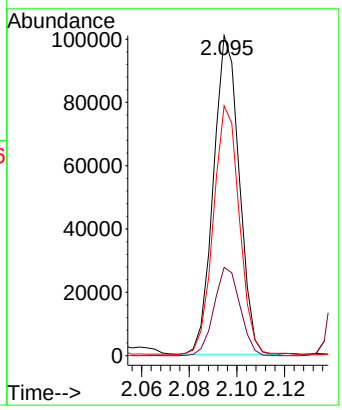




#21
Allyl Chloride
Concen: 8.256 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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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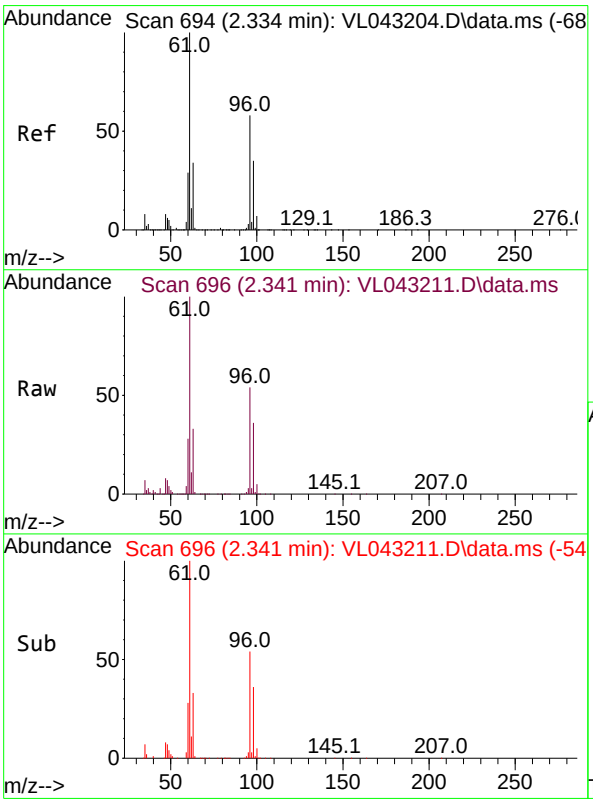
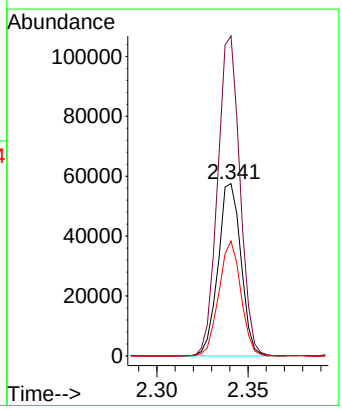
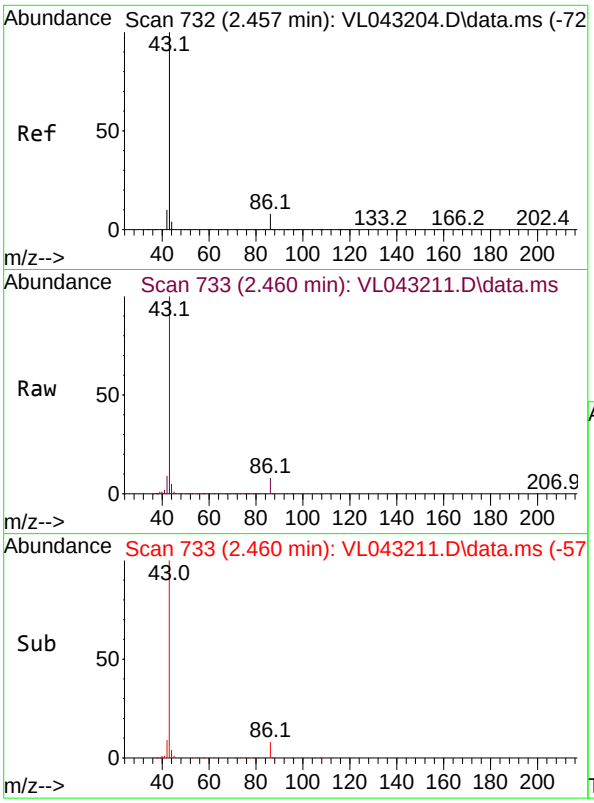


#22
trans-1,2-Dichloroethene
Concen: 9.041 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

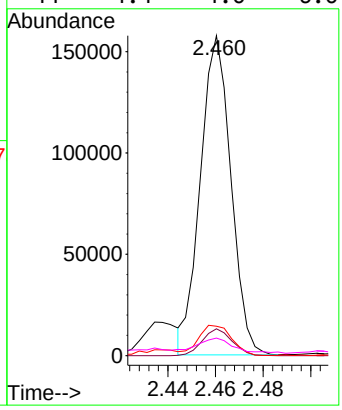




#23
Vinyl Acetate
Concen: 8.539 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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 :
MSVOA_L
ClientSampleId :
ICVVL111825

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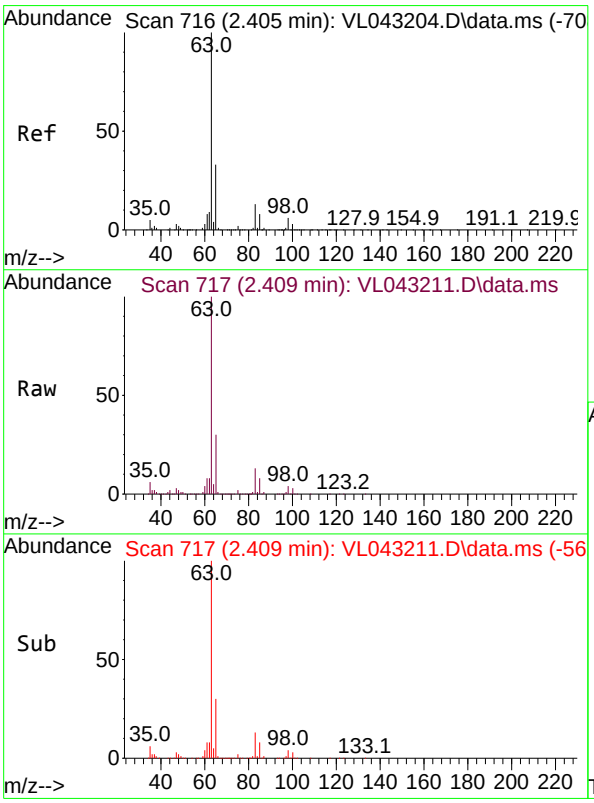
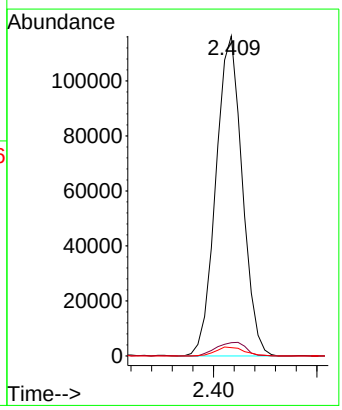
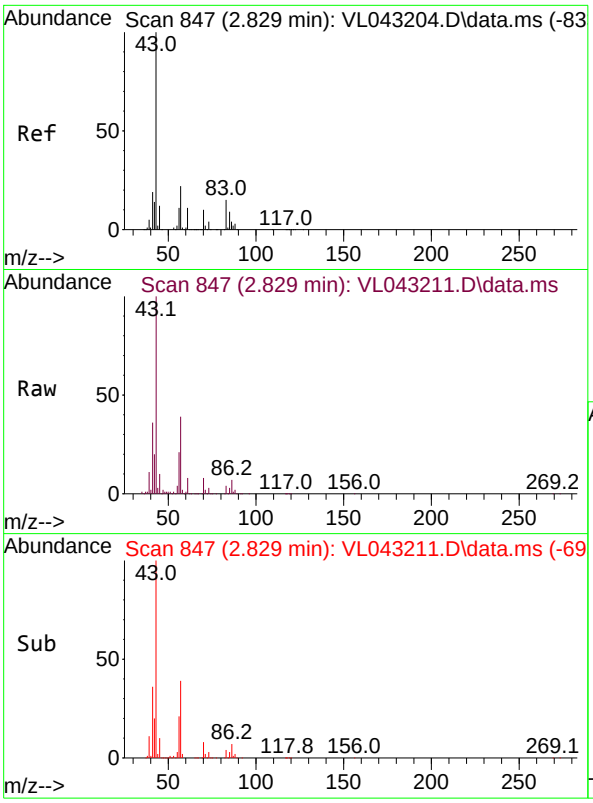


#24
1,1-Dichloroethane
Concen: 9.622 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

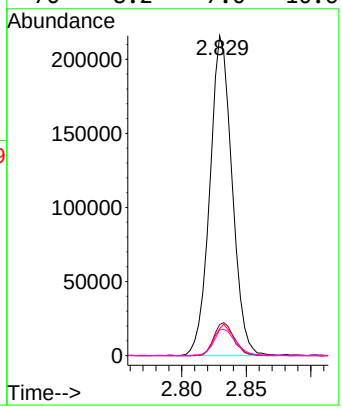




#25
Ethyl Acetate
Concen: 8.820 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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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ClientSampleId :
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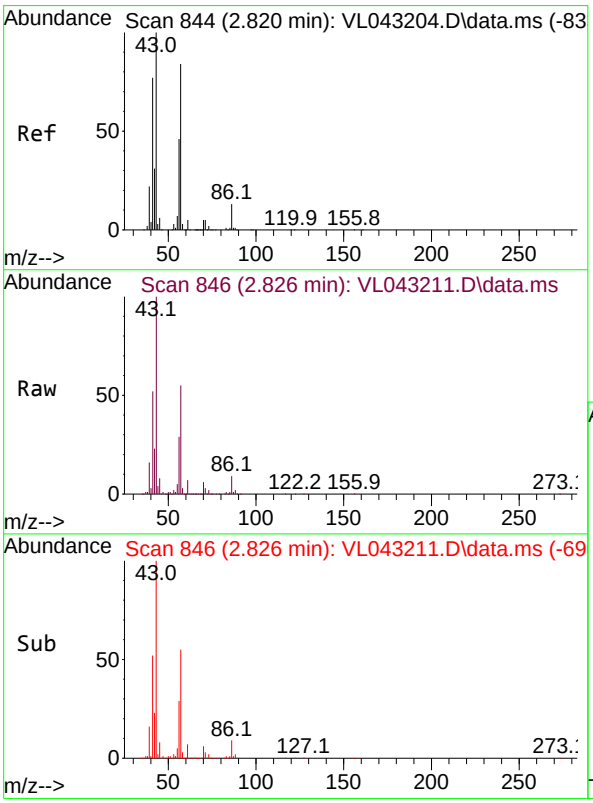
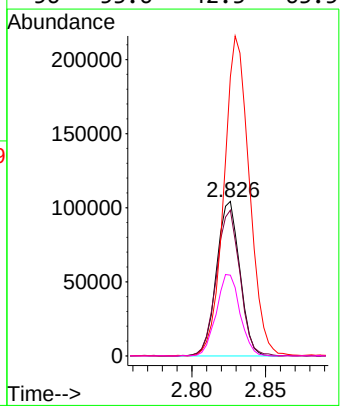
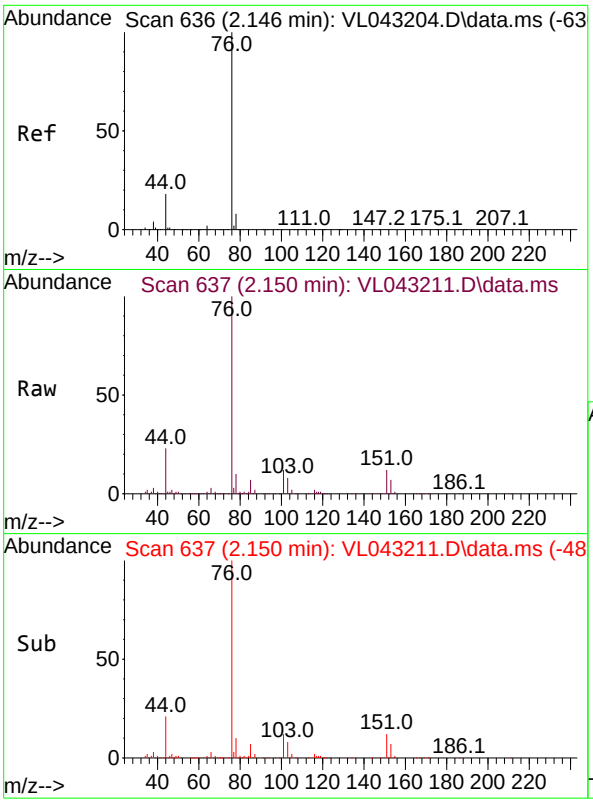


#26
Hexane
Concen: 8.892 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

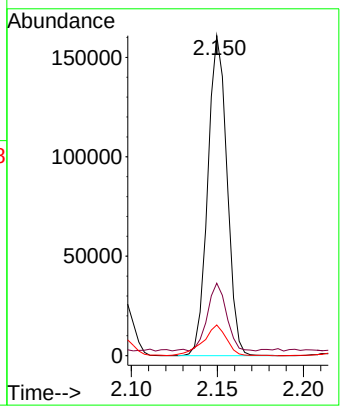




#27
Carbon Disulfide
Concen: 9.528 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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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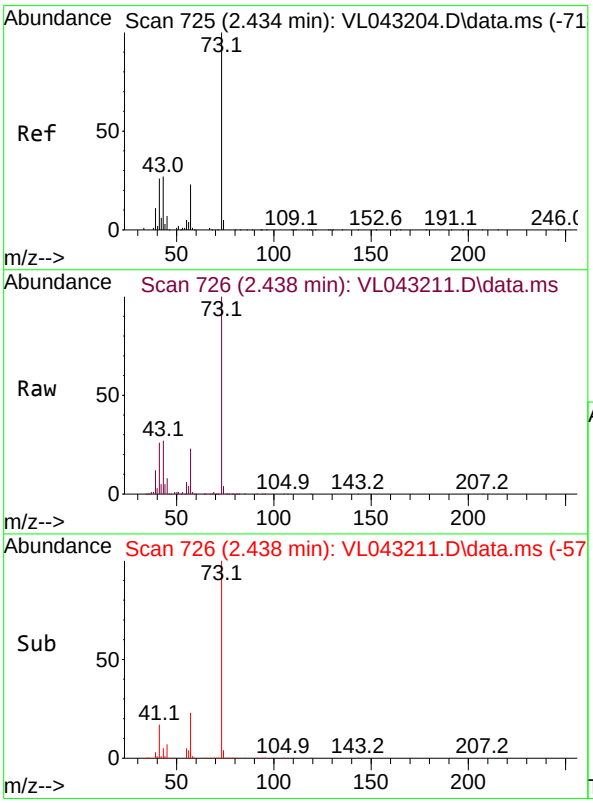
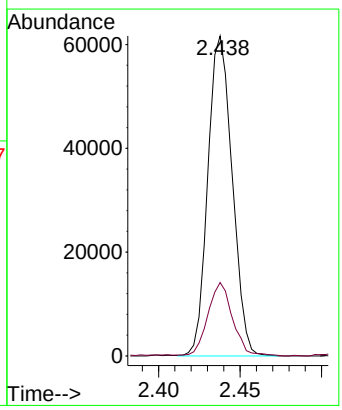
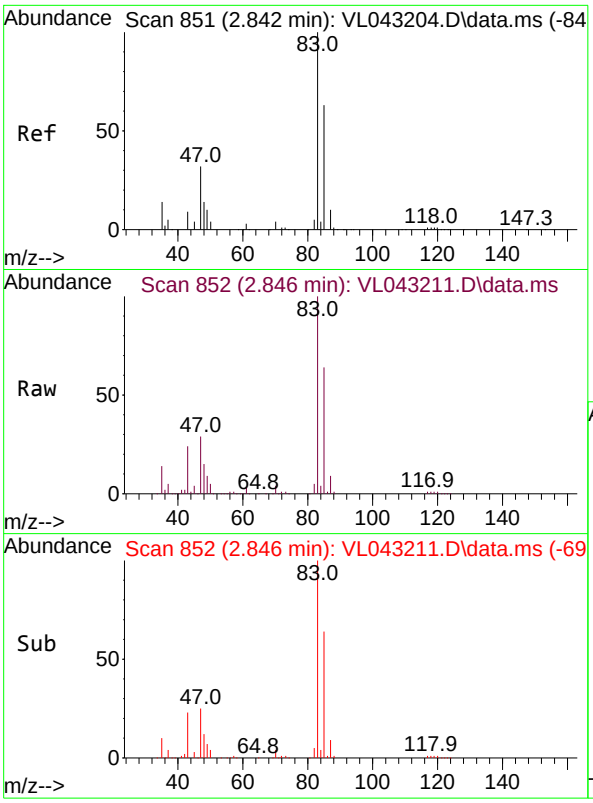


#28
Methyl tert-Butyl Ether
Concen: 10.171 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 73 Resp: 64183

Ion	Ratio	Lower	Upper
73	100		
57	23.6	19.8	29.8

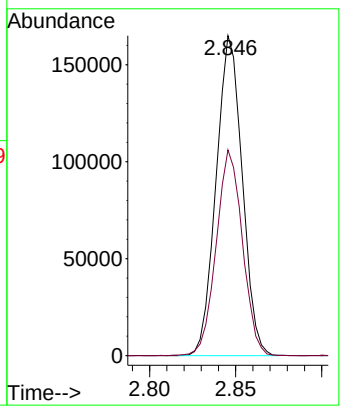




#29
Chloroform
Concen: 9.521 ppbv
RT: 2.846 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 83 Resp: 17397

Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.5	75.7



Instrument :
MSVOA_L
ClientSampleId :
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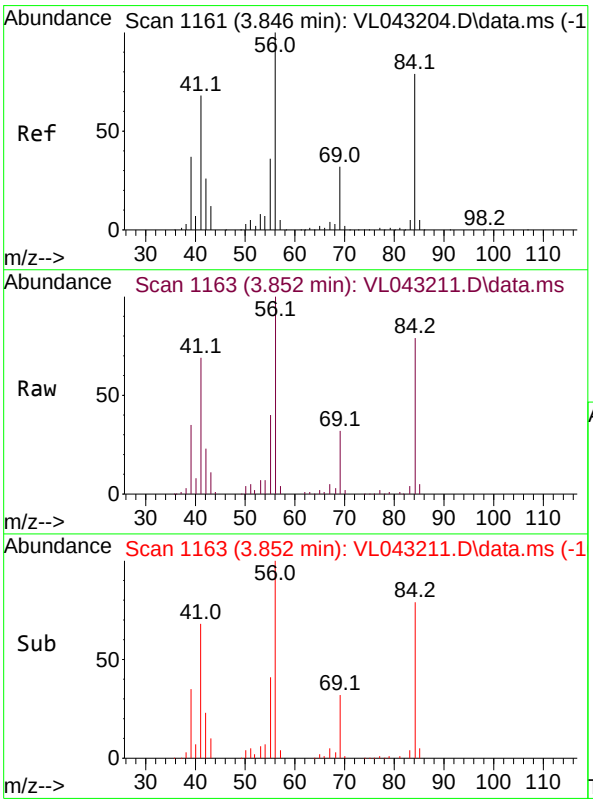
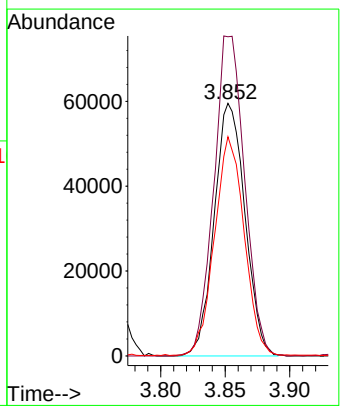
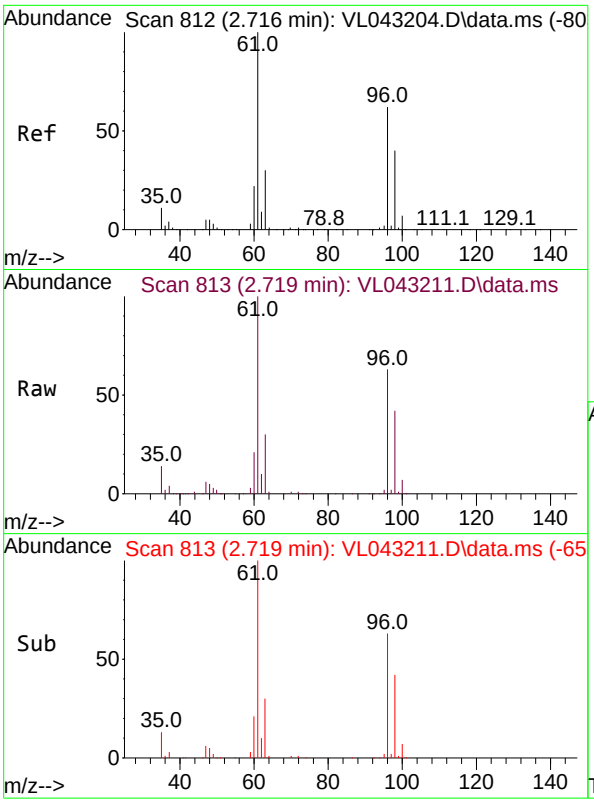


#30
Cyclohexane
Concen: 9.148 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

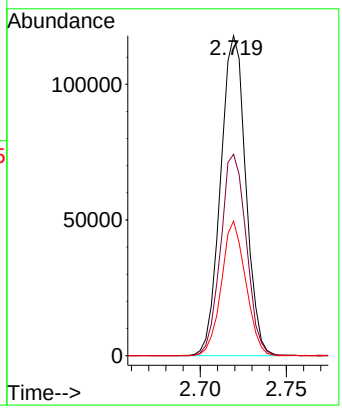




#31
cis-1,2-Dichloroethene
Concen: 9.379 ppbv
RT: 2.719 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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 :
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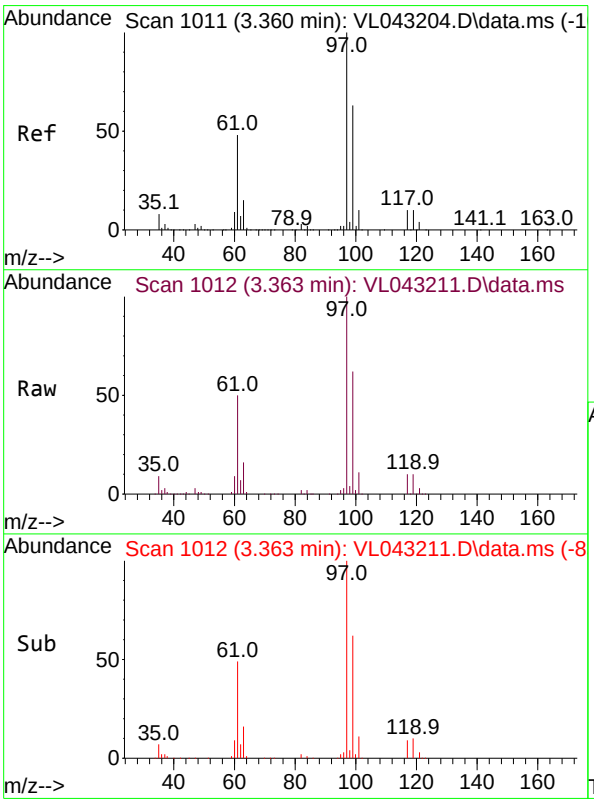
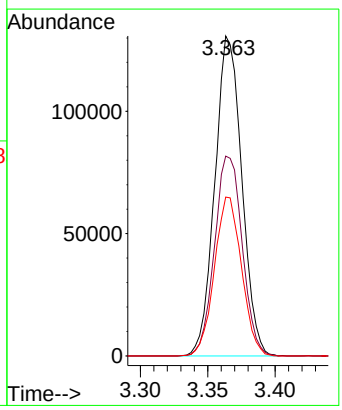
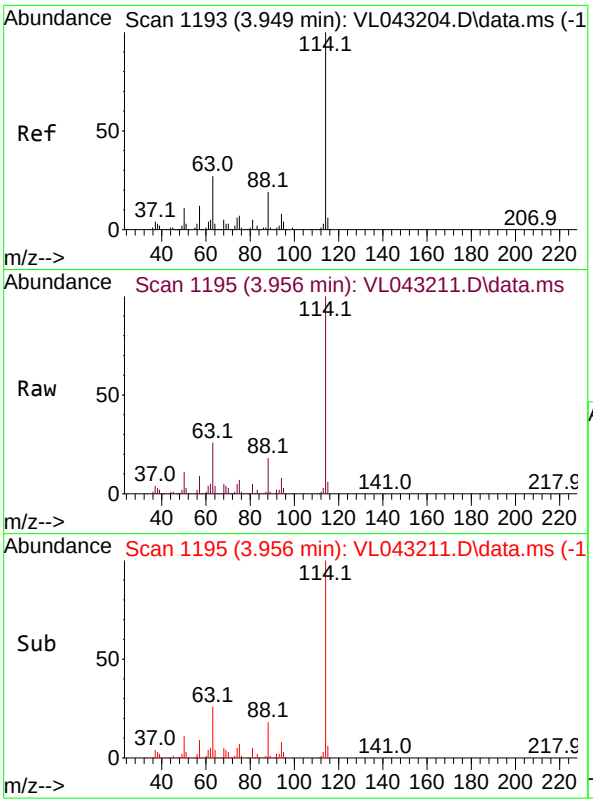


#32
1,1,1-Trichloroethane
Concen: 9.358 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

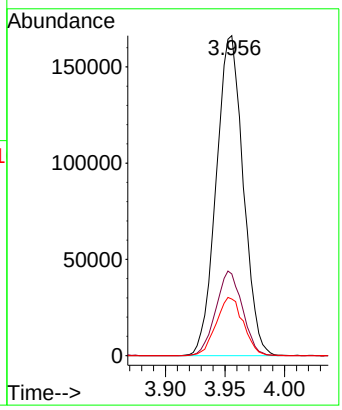




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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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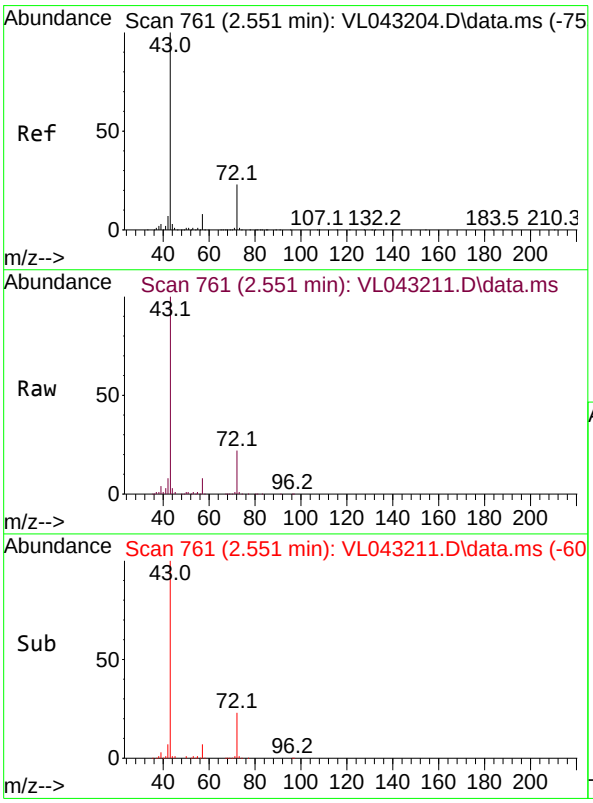
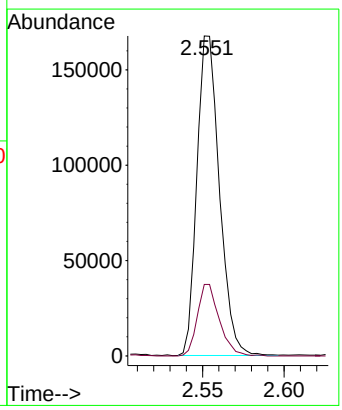
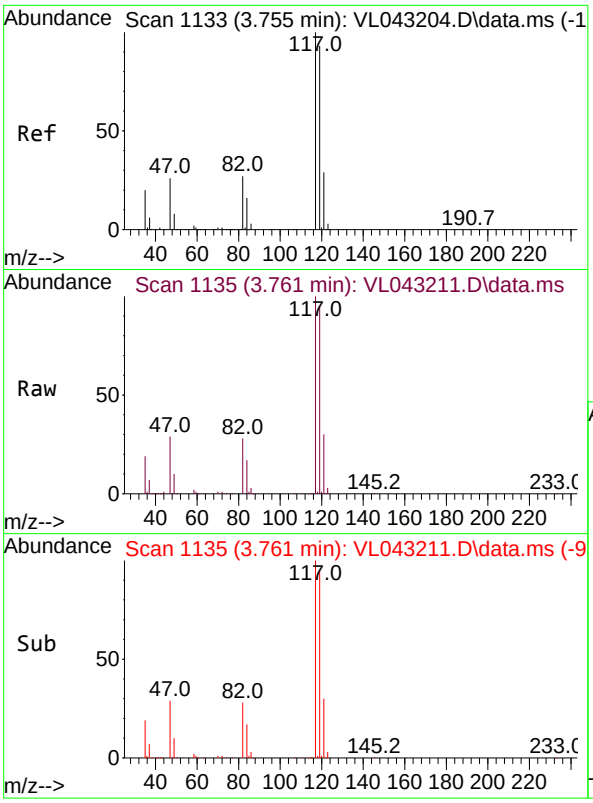


#34
2-Butanone
Concen: 8.707 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 160977

Ion	Ratio	Lower	Upper
43	100		
72	21.8	18.1	27.1

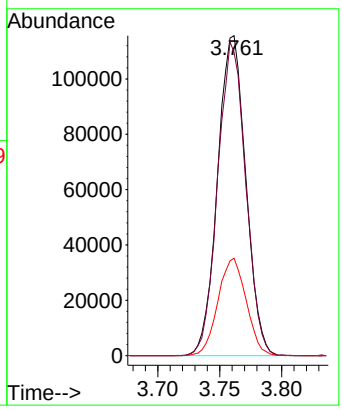




#35
Carbon Tetrachloride
Concen: 9.200 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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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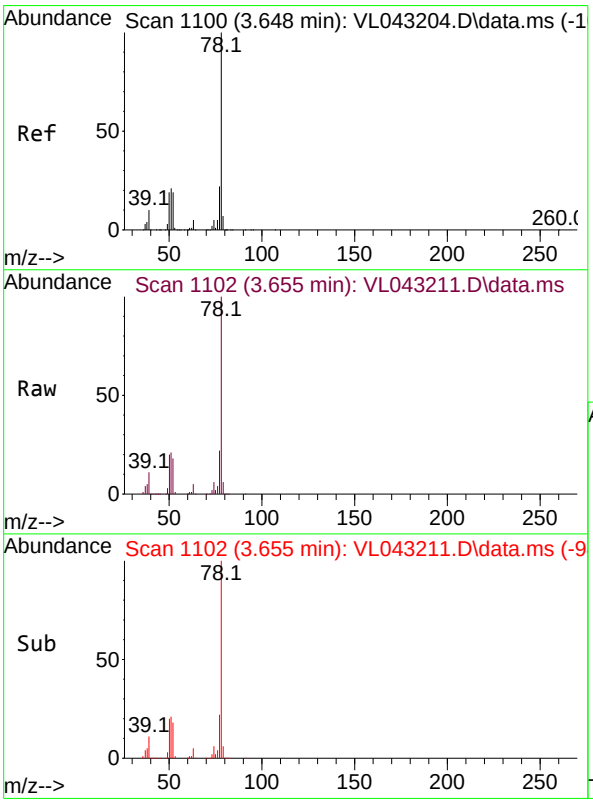
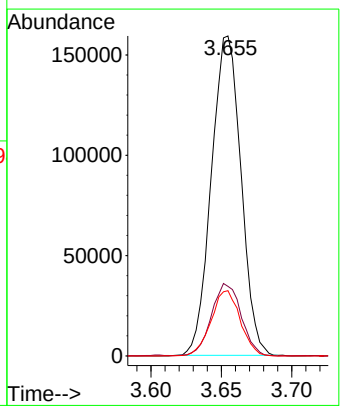
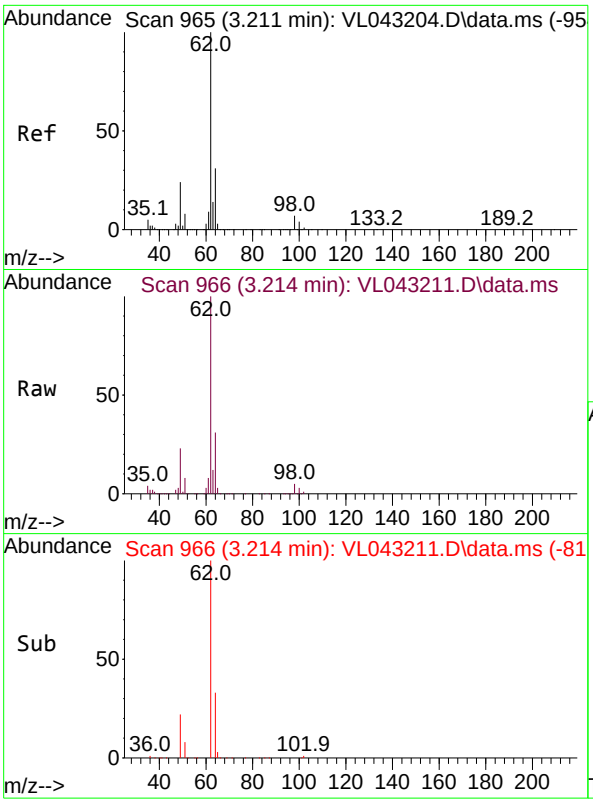


#36
Benzene
Concen: 9.293 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

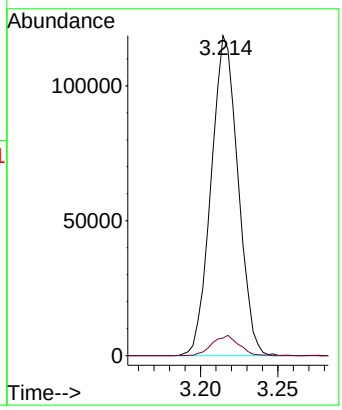




#37
1,2-Dichloroethane
Concen: 9.772 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 62 Resp: 14336

Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.5	8.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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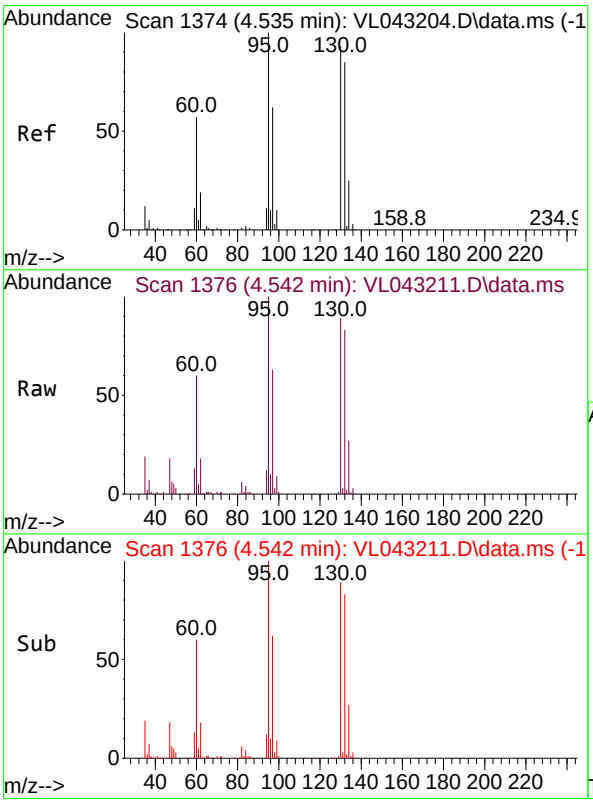
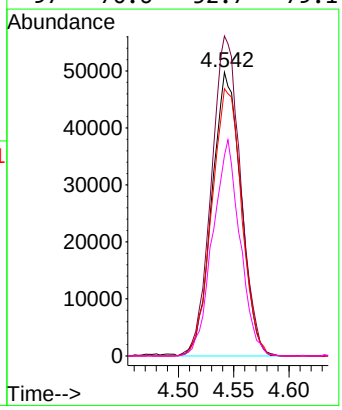
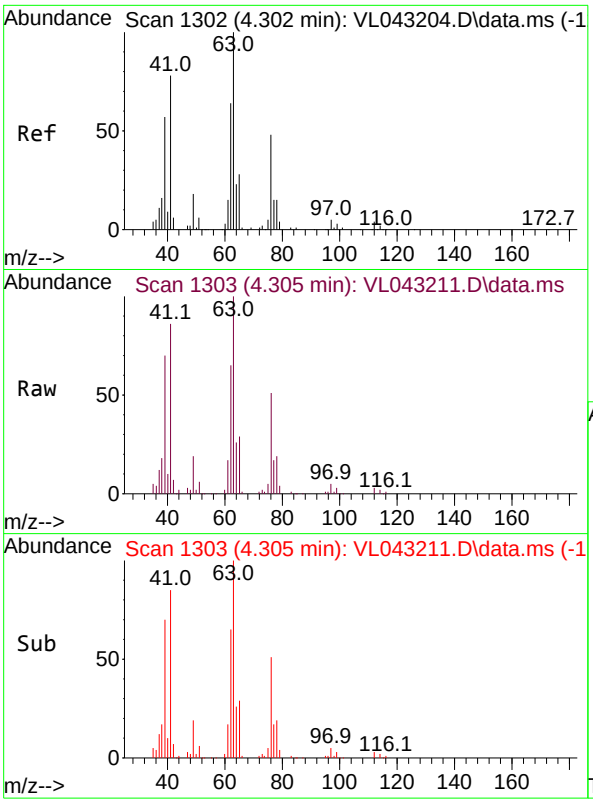


#38
Trichloroethene
Concen: 9.272 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

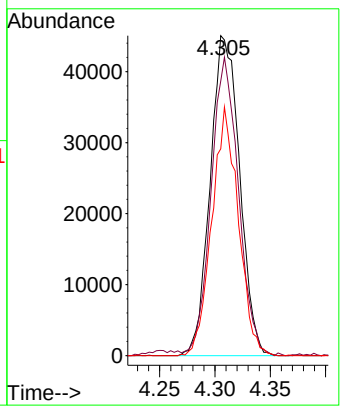




#39
1,2-Dichloropropane
Concen: 9.086 ppbv
RT: 4.305 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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 :
ICVVL111825

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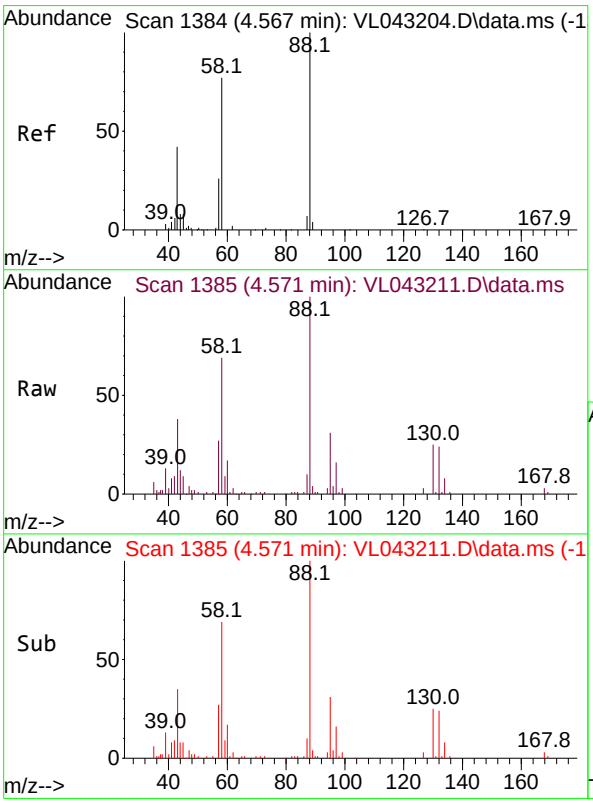
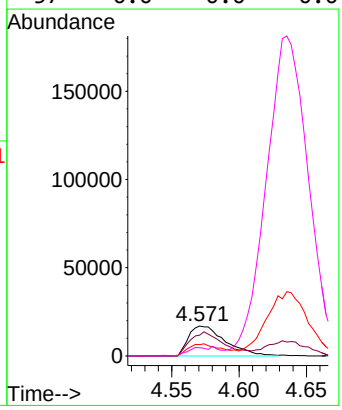
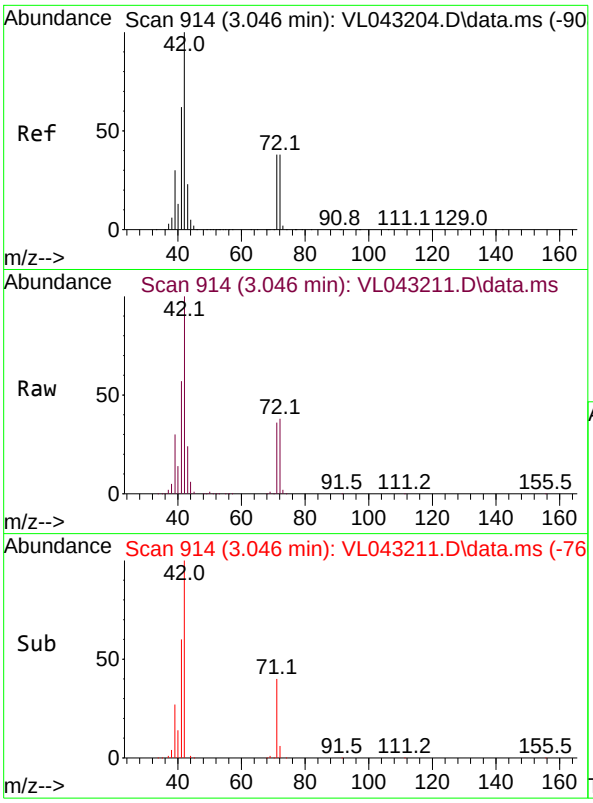


#40
1,4-Dioxane
Concen: 7.780 ppbv
RT: 4.571 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

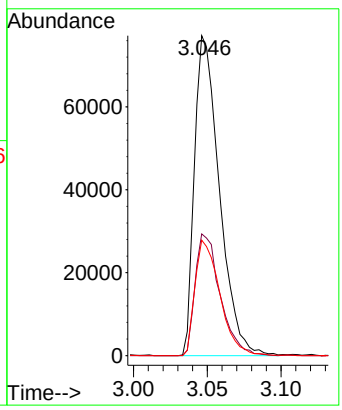




#41
Tetrahydrofuran
Concen: 8.891 ppbv
RT: 3.046 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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 :
ICVVL111825

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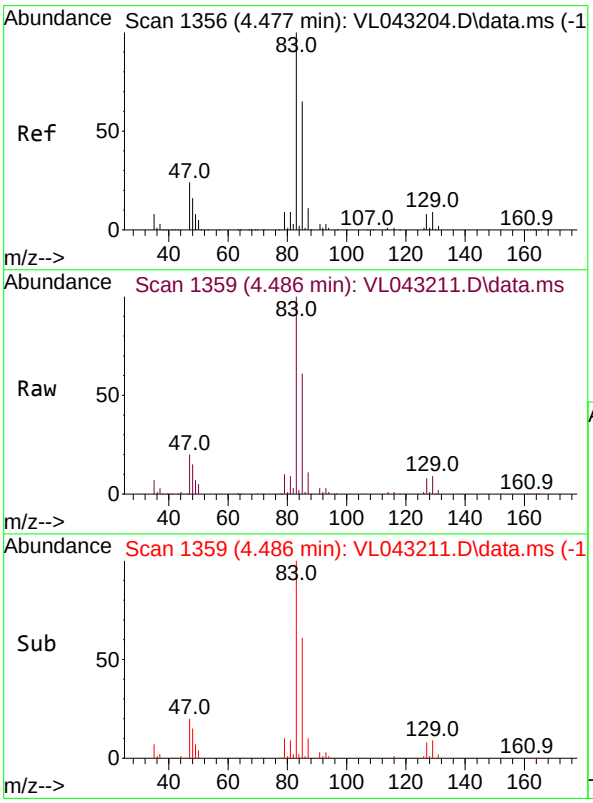
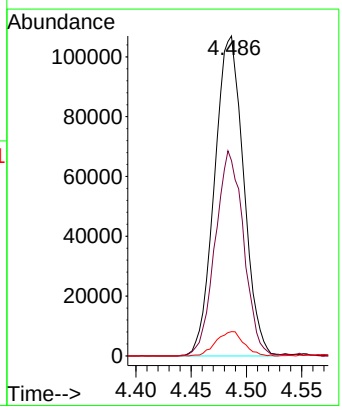
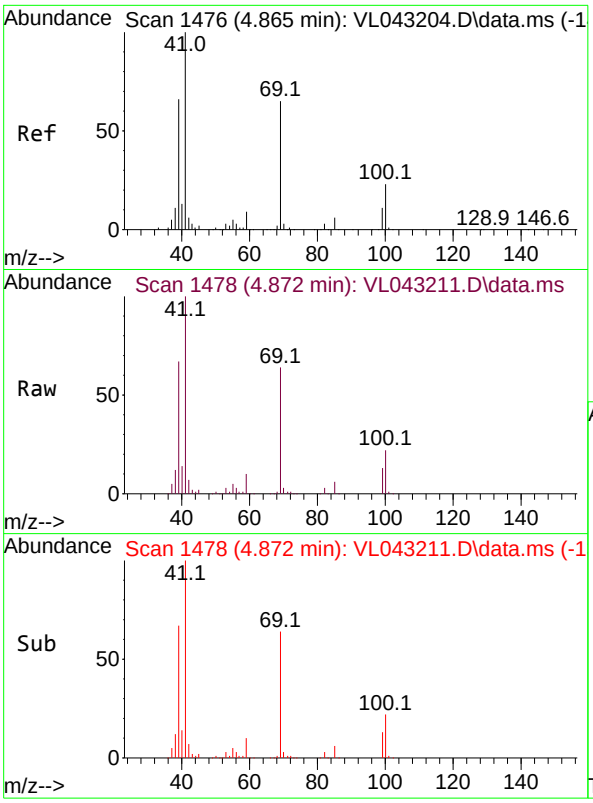


#42
Bromodichloromethane
Concen: 9.657 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

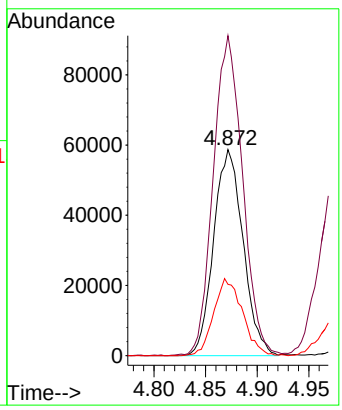




#43
Methyl Methacrylate
Concen: 8.737 ppbv
RT: 4.872 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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 :
MSVOA_L
ClientSampleId :
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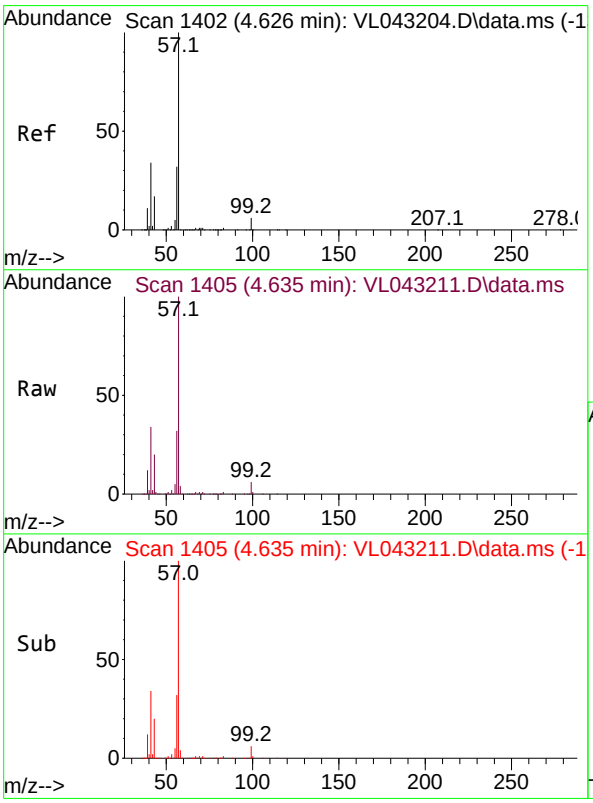
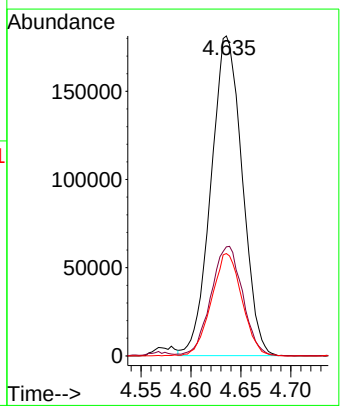
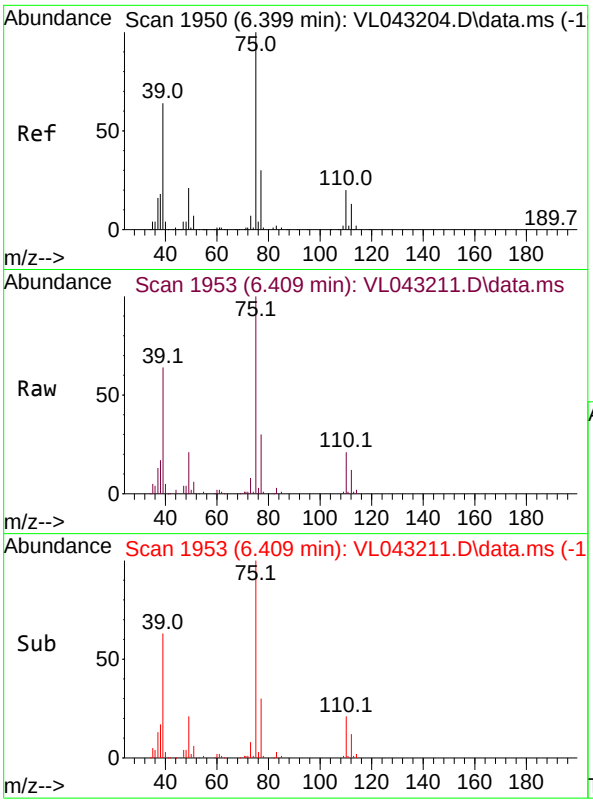


#44
2,2,4-Trimethylpentane
Concen: 9.133 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

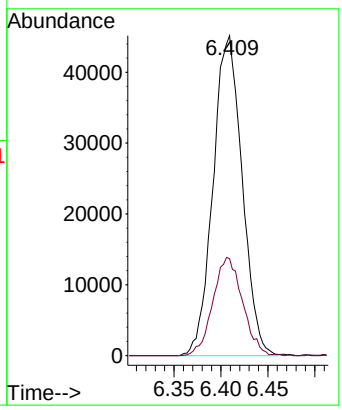




#45
t-1,3-Dichloropropene
Concen: 7.863 ppbv
RT: 6.409 min Scan# 19
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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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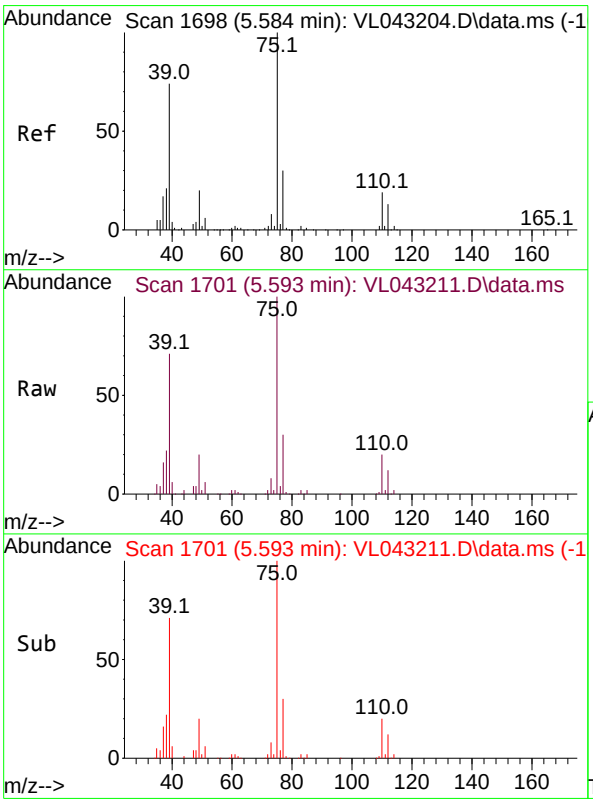
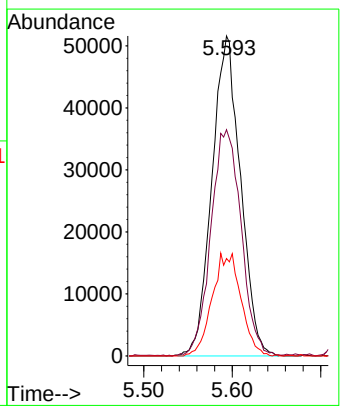
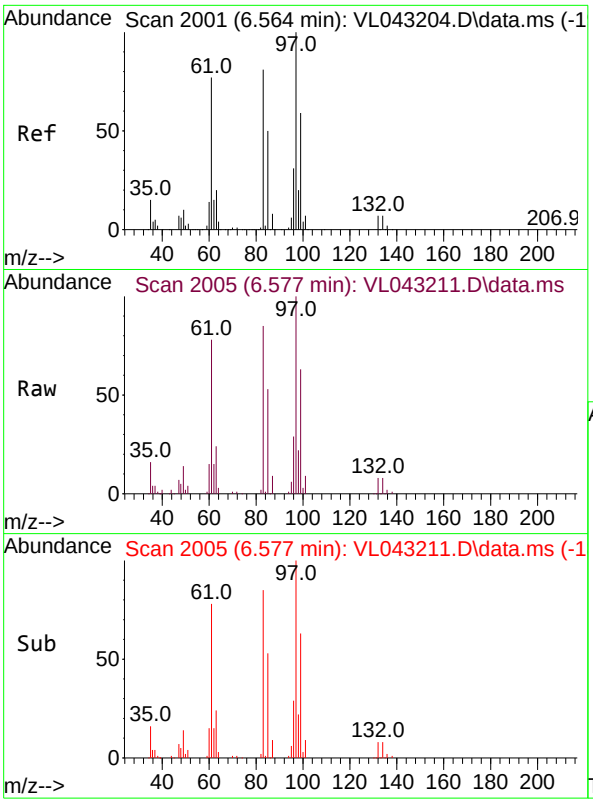


#46
cis-1,3-Dichloropropene
Concen: 7.924 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

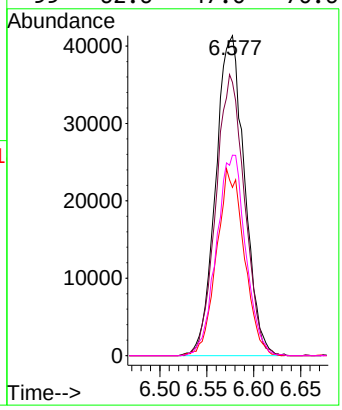




#47
1,1,2-Trichloroethane
Concen: 9.086 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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 :
MSVOA_L
ClientSampleId :
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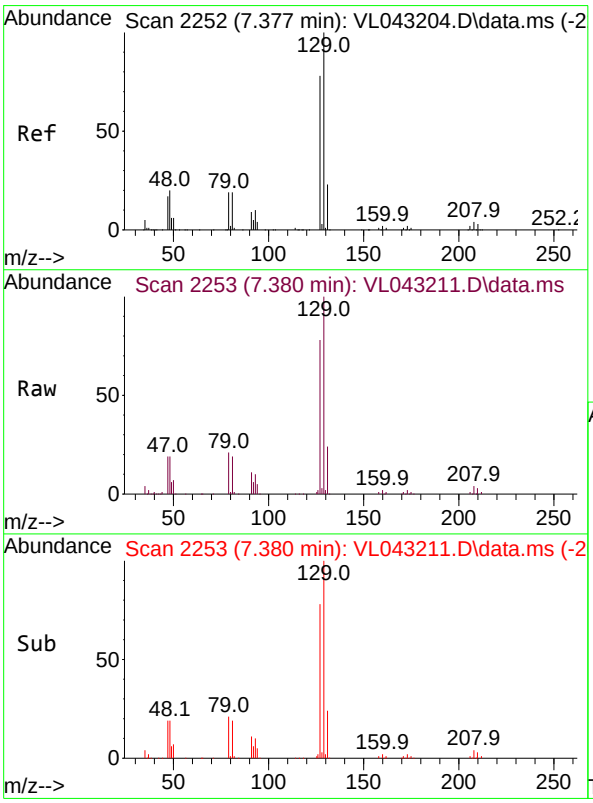
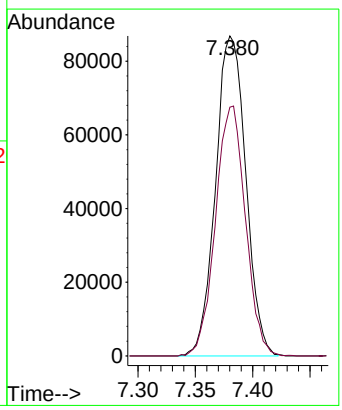
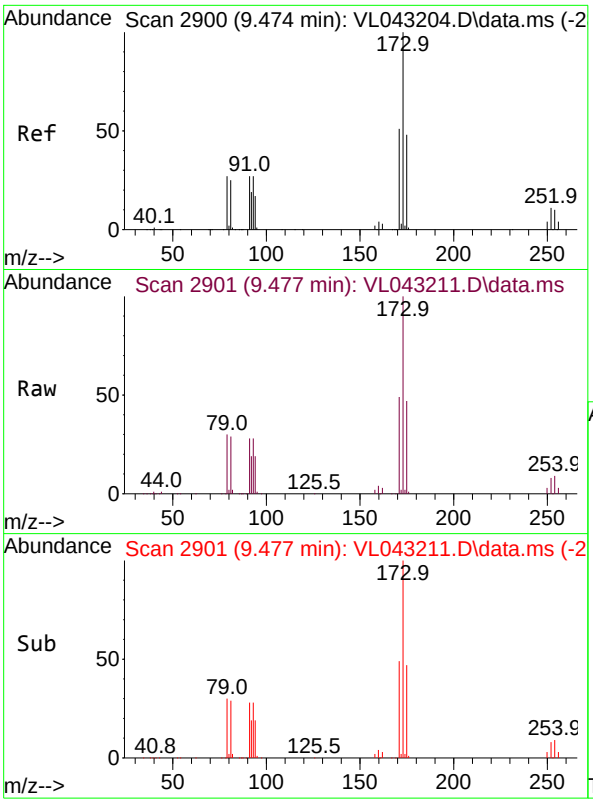


#48
Dibromochloromethane
Concen: 9.514 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:129 Resp: 159365

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.3	117.9

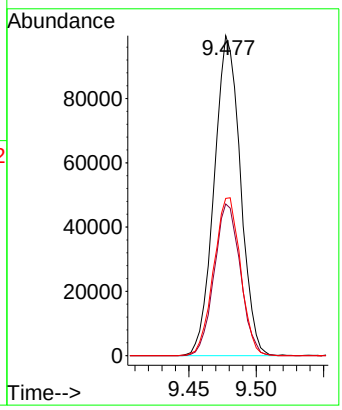




#49
Bromoform
Concen: 9.085 ppbv
RT: 9.477 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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 :
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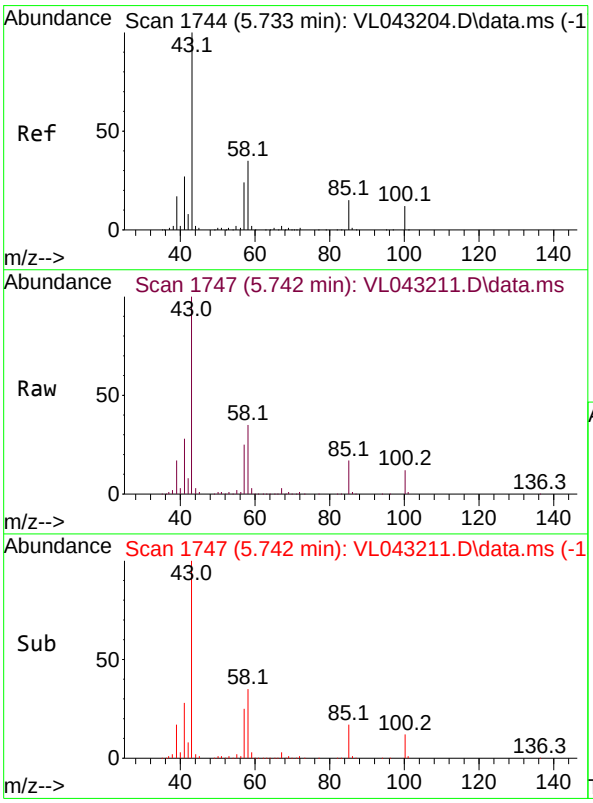
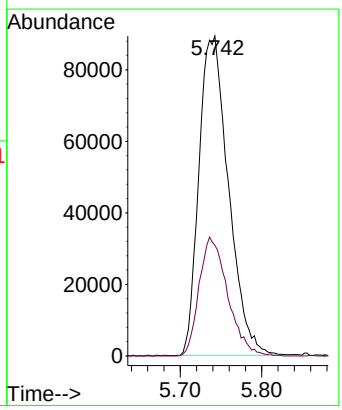
Supervised By :Mahesh Dadoda 11/19/2025

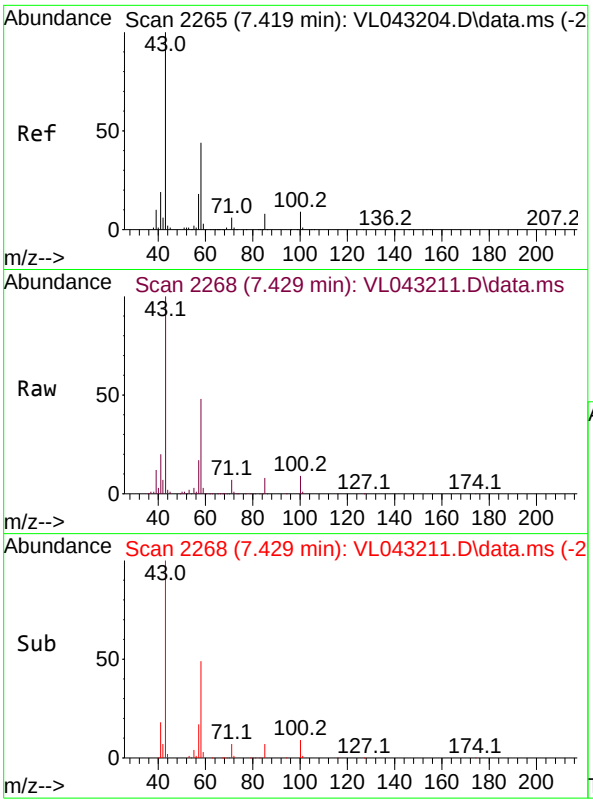


#50
4-Methyl-2-Pentanone
Concen: 8.631 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 224791

Ion	Ratio	Lower	Upper
43	100		
58	36.0	28.4	42.6

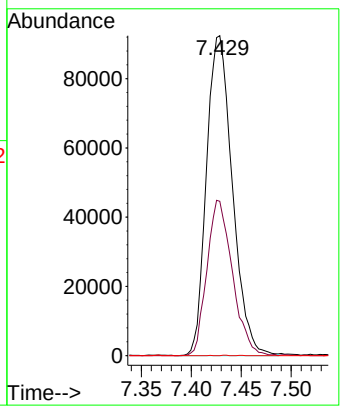




#51
2-Hexanone
Concen: 8.233 ppbv
RT: 7.429 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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 :
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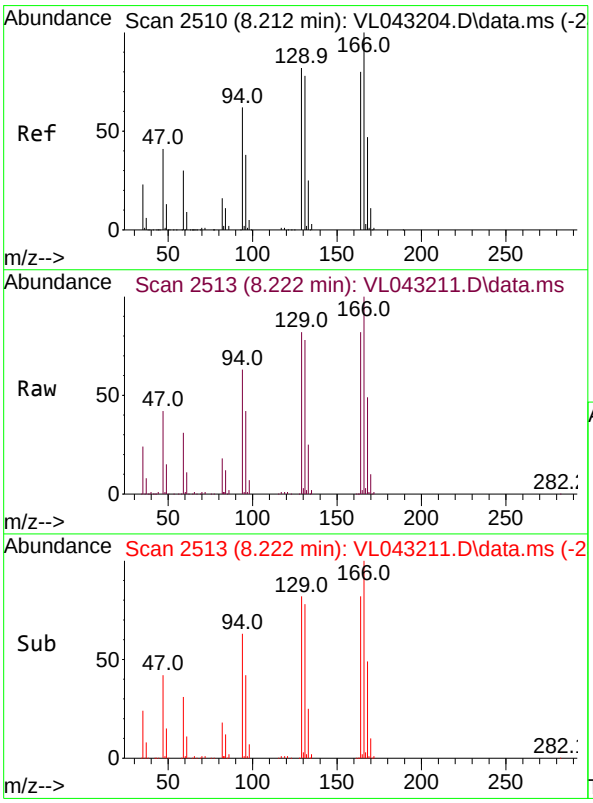
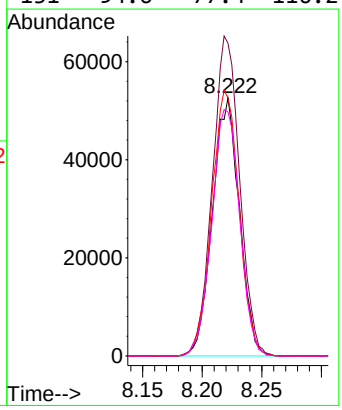
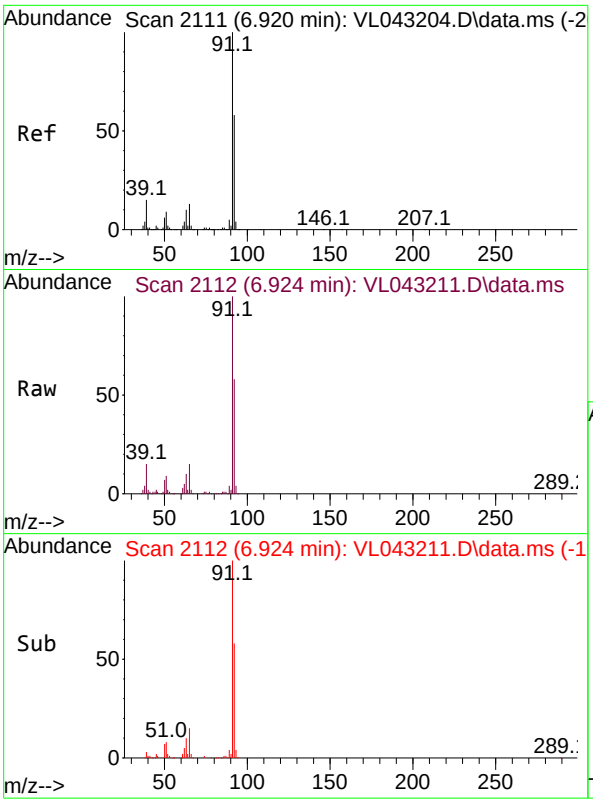


#52
Tetrachloroethene
Concen: 8.884 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

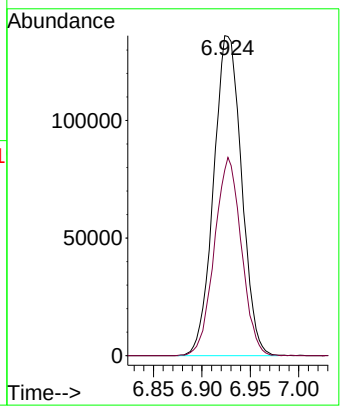




#53
Toluene
Concen: 9.197 ppbv
RT: 6.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 27317

Ion	Ratio	Lower	Upper
91	100		
92	59.8	47.4	71.0



Instrument :
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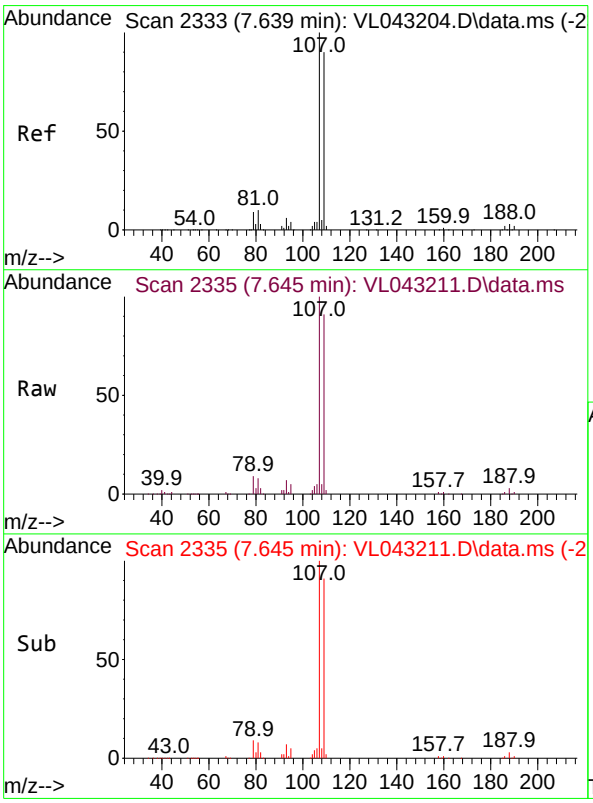
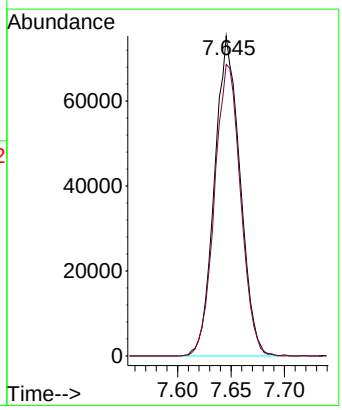
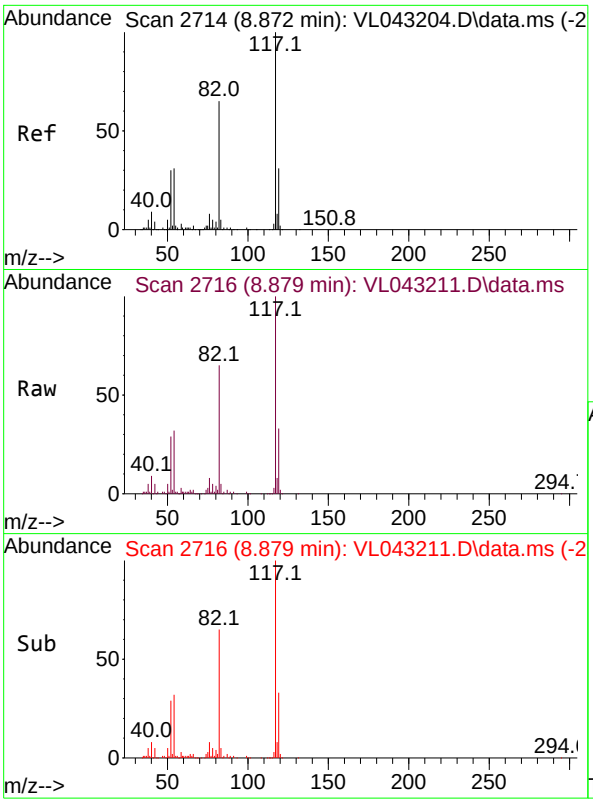


#54
1,2-Dibromoethane
Concen: 8.705 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:107 Resp: 124804

Ion	Ratio	Lower	Upper
107	100		
109	91.1	72.1	108.1

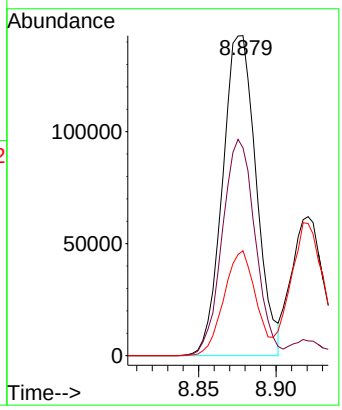




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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 :
MSVOA_L
ClientSampleId :
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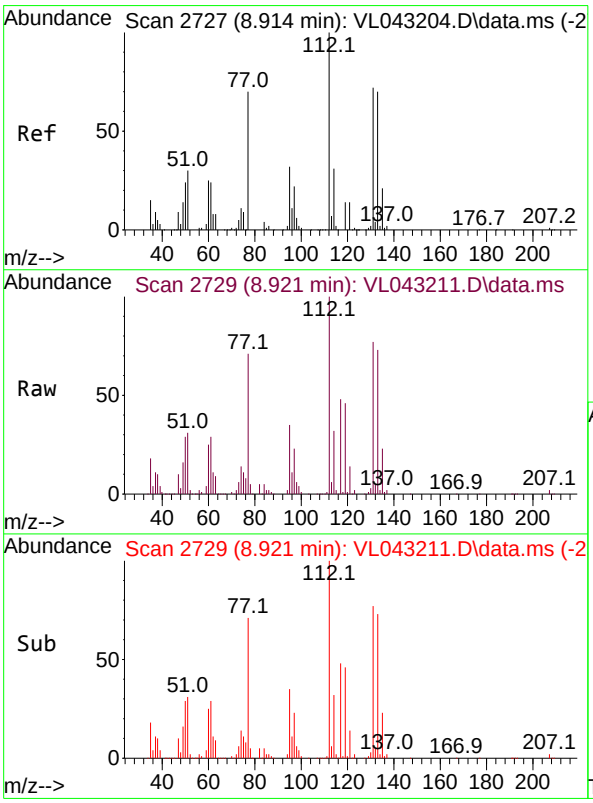
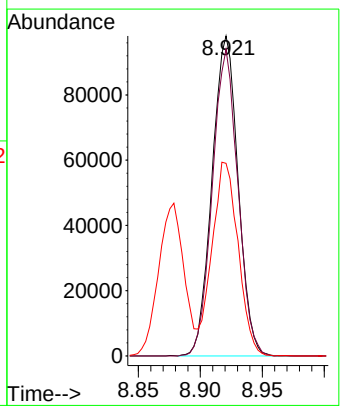
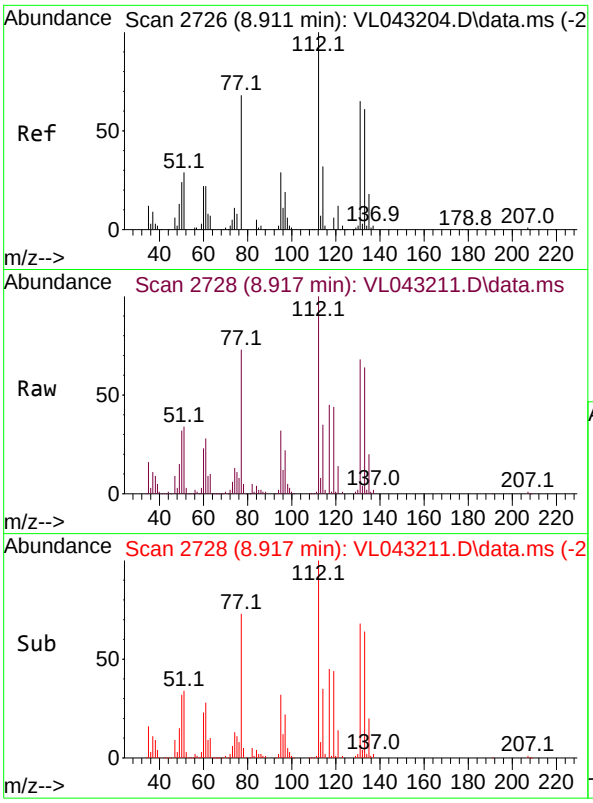


#56
1,1,1,2-Tetrachloroethane
Concen: 8.969 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

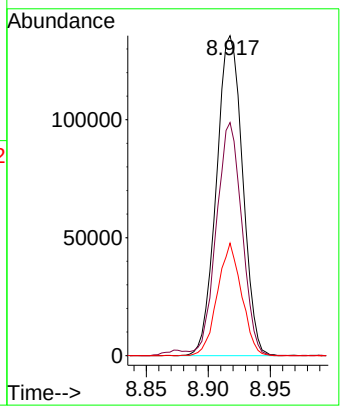




#57
Chlorobenzene
Concen: 8.981 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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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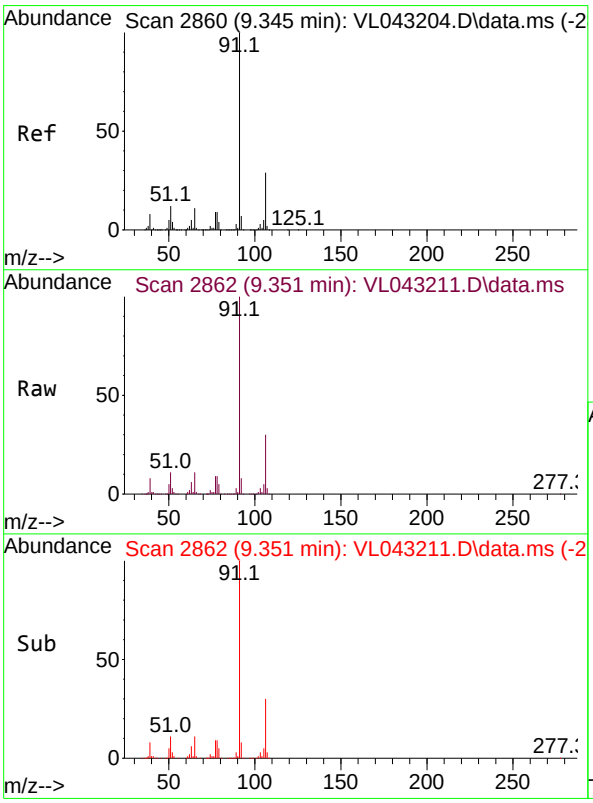
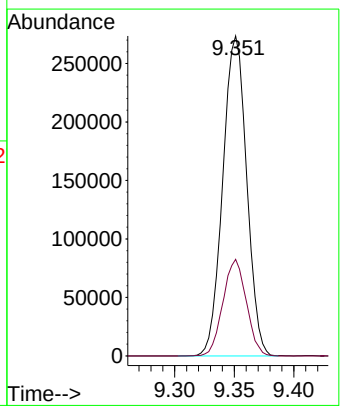
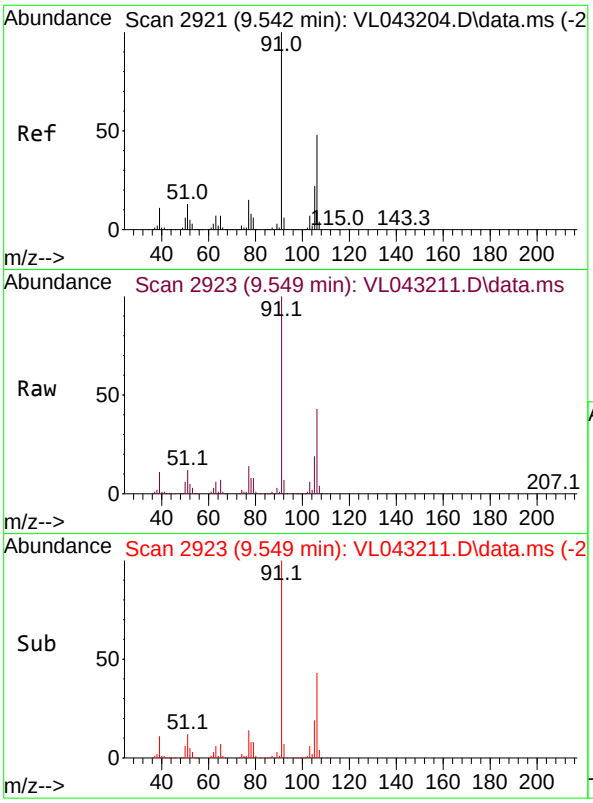


#58
Ethyl Benzene
Concen: 9.167 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 381474

Ion	Ratio	Lower	Upper
91	100		
106	30.2	22.8	34.2

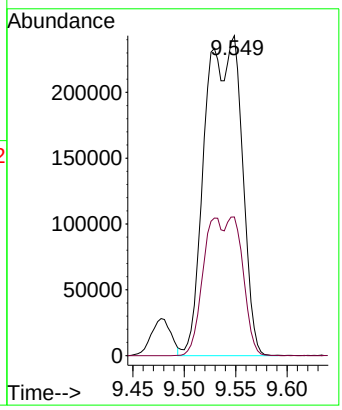




#59
m/p-Xylene
Concen: 18.108 ppbv m
RT: 9.549 min Scan# 29
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 60416

Ion	Ratio	Lower	Upper
91	100		
106	44.8	36.1	54.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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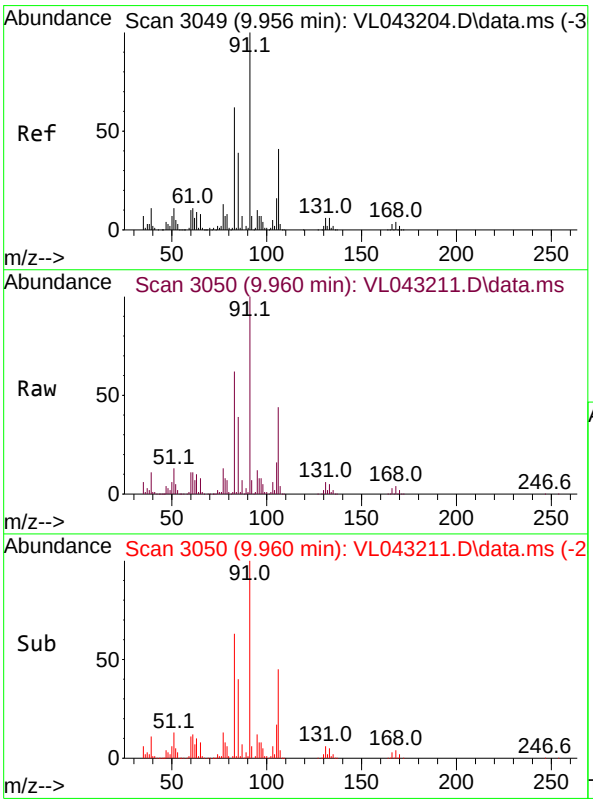
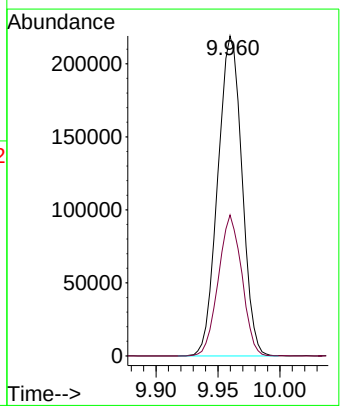
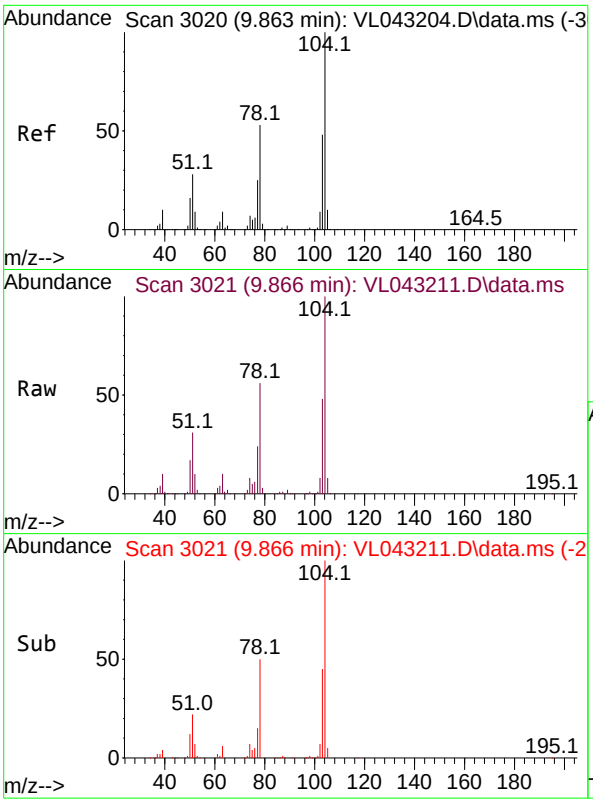


#60
o-Xylene
Concen: 8.876 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 295836

Ion	Ratio	Lower	Upper
91	100		
106	42.8	20.9	62.8

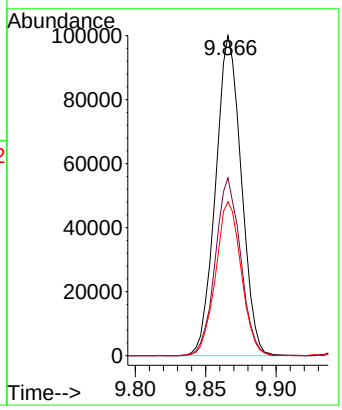




#61
Styrene
Concen: 8.714 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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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ClientSampleId :
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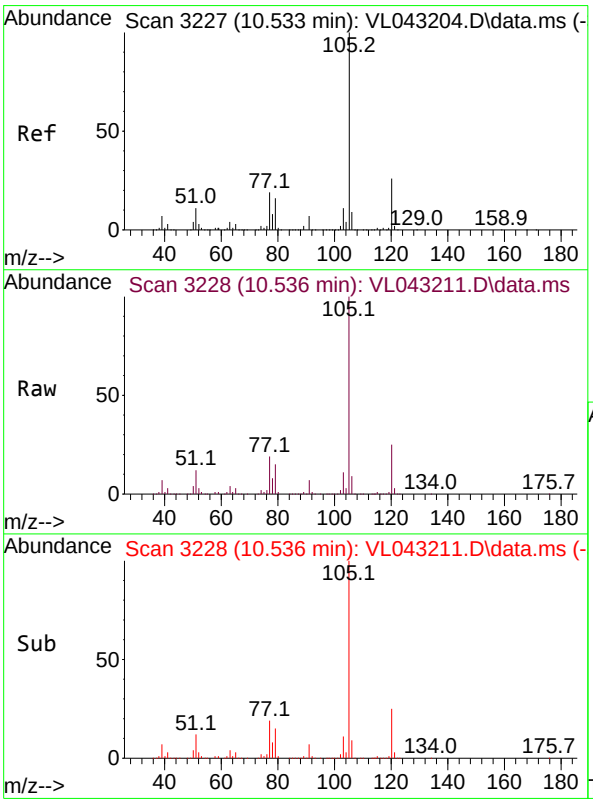
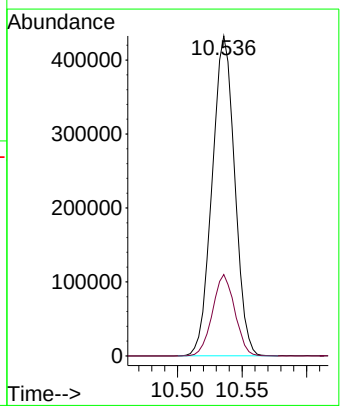
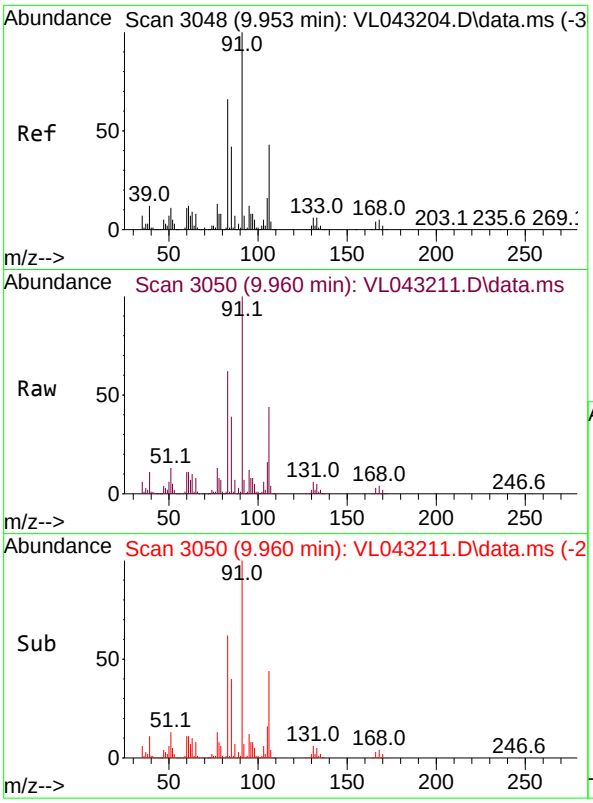


#62
Isopropylbenzene
Concen: 8.816 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:105 Resp: 525717

Ion	Ratio	Lower	Upper
105	100		
120	25.1	19.8	29.8

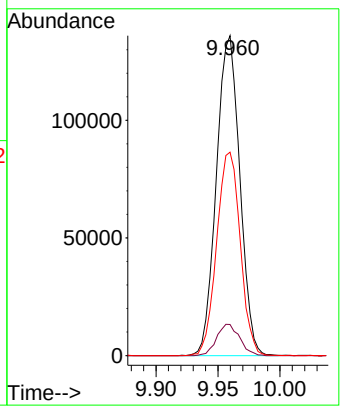




#63
1,1,2,2-Tetrachloroethane
Concen: 8.421 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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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ClientSampleId :
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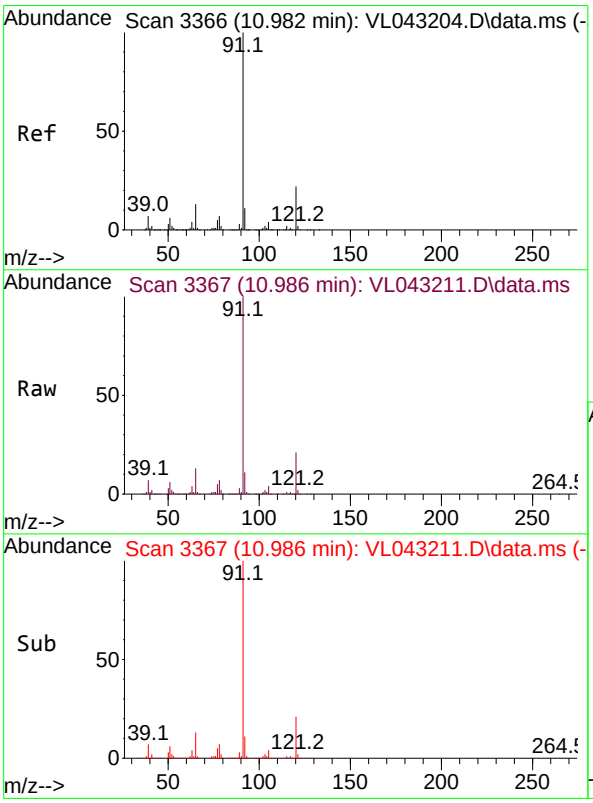
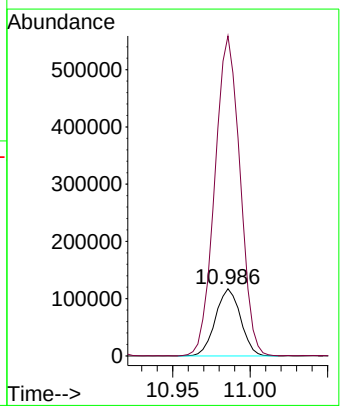
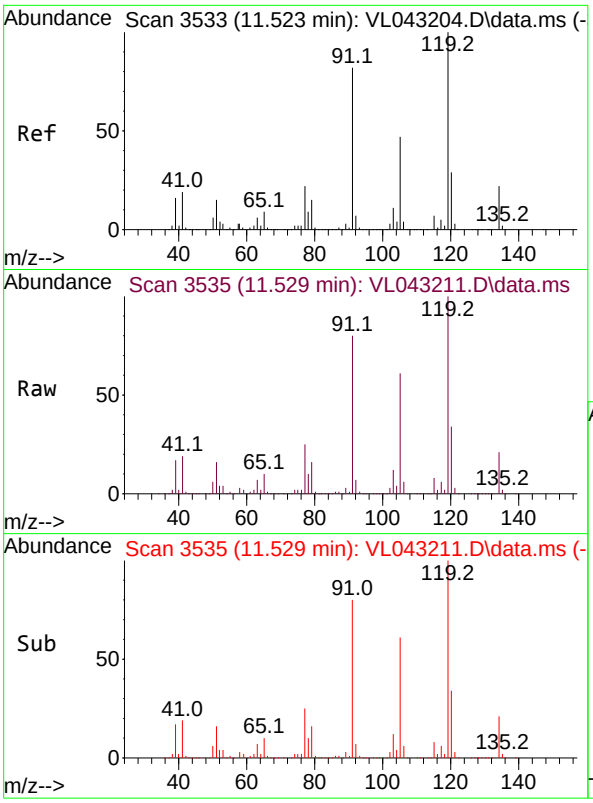


#64
n-propylbenzene
Concen: 8.591 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:120 Resp: 131634

Ion	Ratio	Lower	Upper
120	100		
91	482.2	377.1	565.7

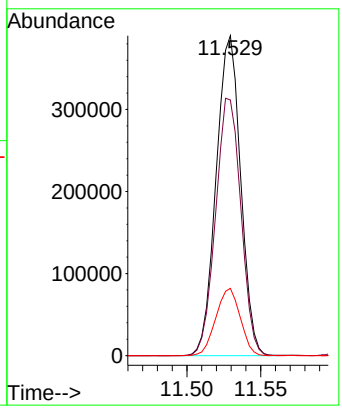




#65
tert-Butylbenzene
Concen: 8.465 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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 :
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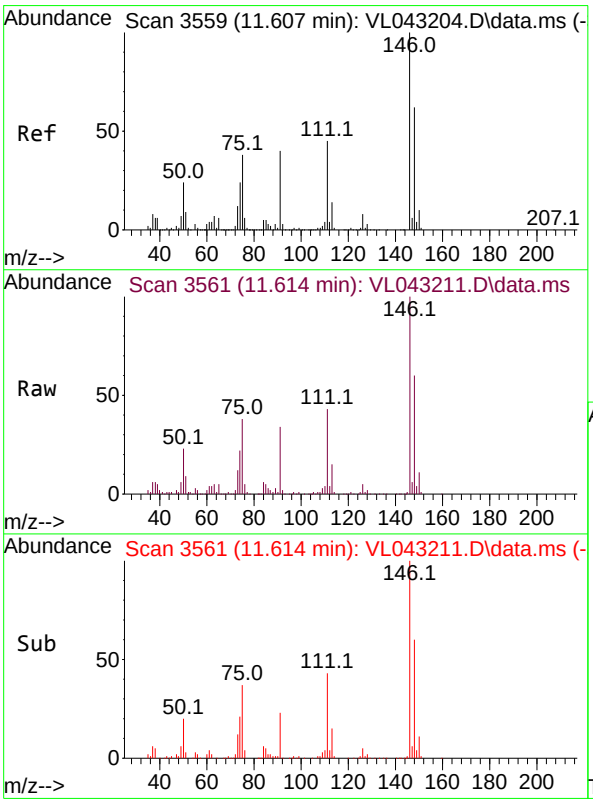
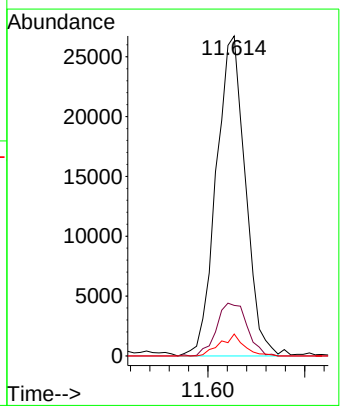
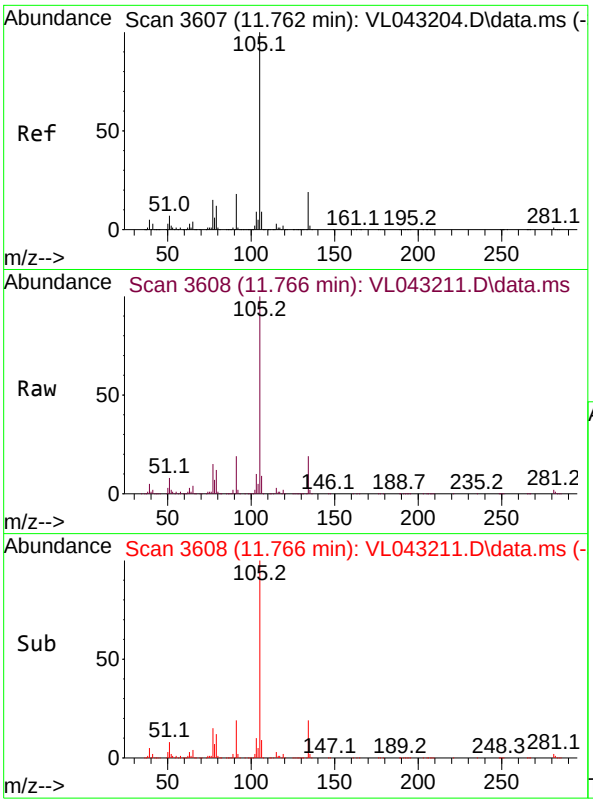


#66
Benzyl Chloride
Concen: 5.159 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

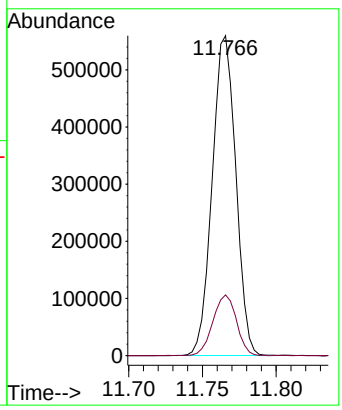




#67
sec-Butylbenzene
Concen: 8.388 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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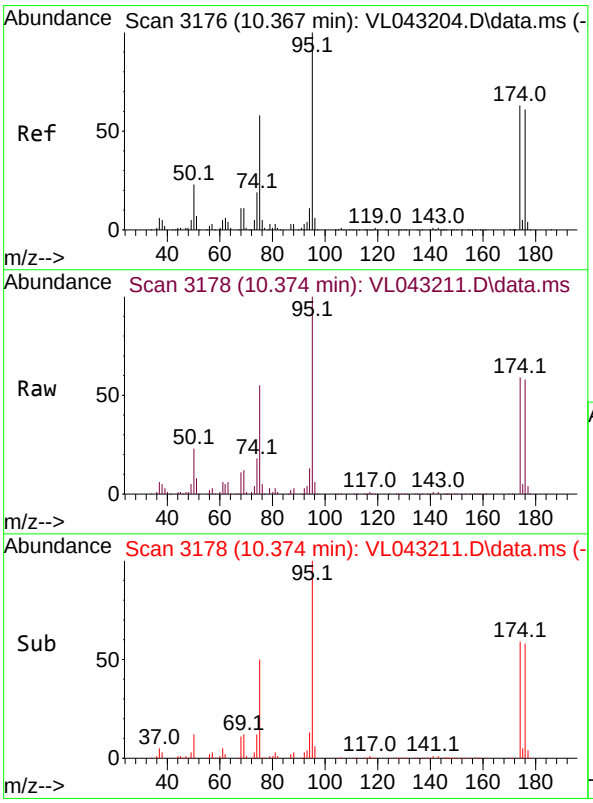
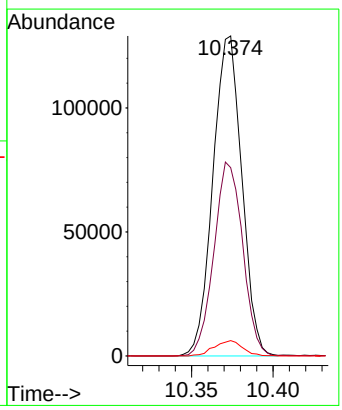
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

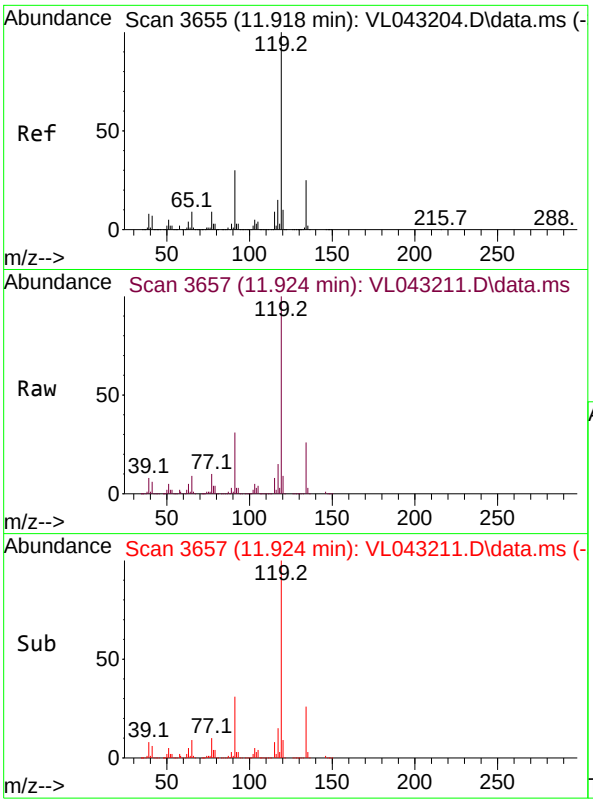


#68
1-Bromo-4-Fluorobenzene
Concen: 10.048 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

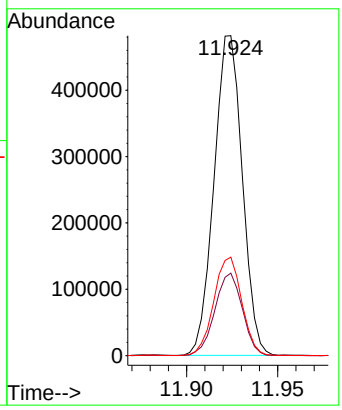




#69
p-Isopropyltoluene
Concen: 8.272 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:119 Resp: 52088

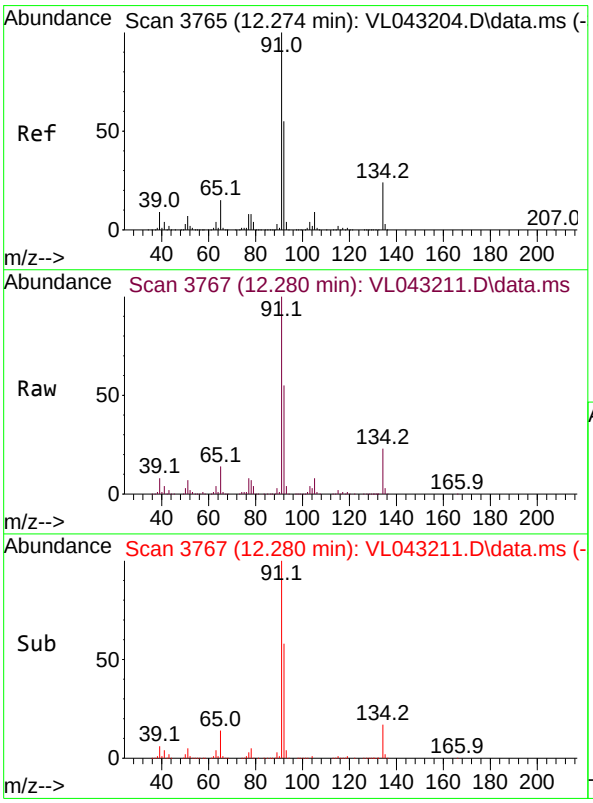
Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	30.6	23.8	35.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations
APPROVED

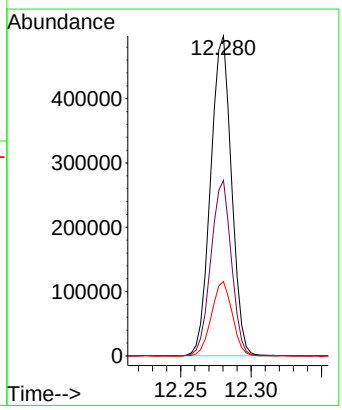
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

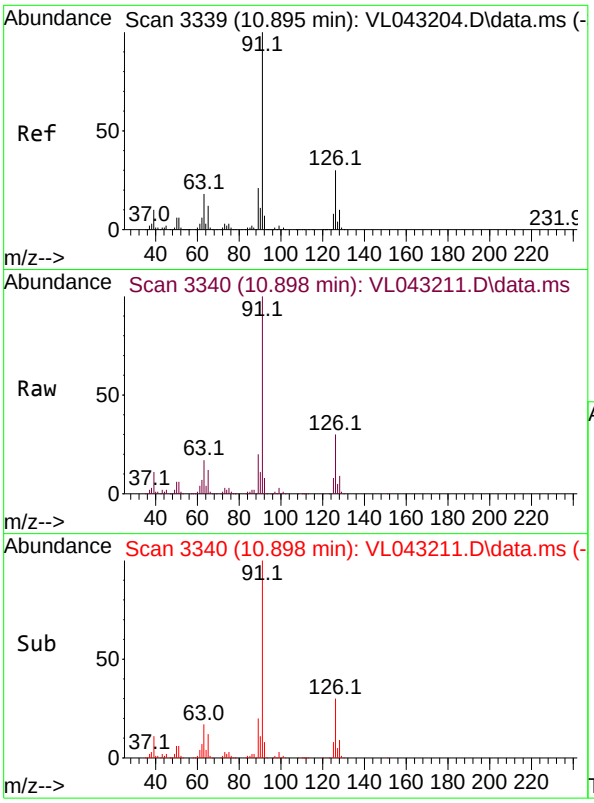


#70
n-Butylbenzene
Concen: 8.398 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

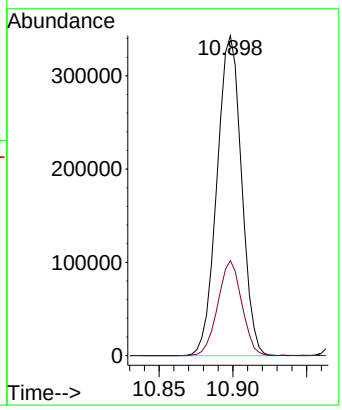




#71
2-Chlorotoluene
Concen: 8.649 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 39643

Ion	Ratio	Lower	Upper
91	100		
126	28.9	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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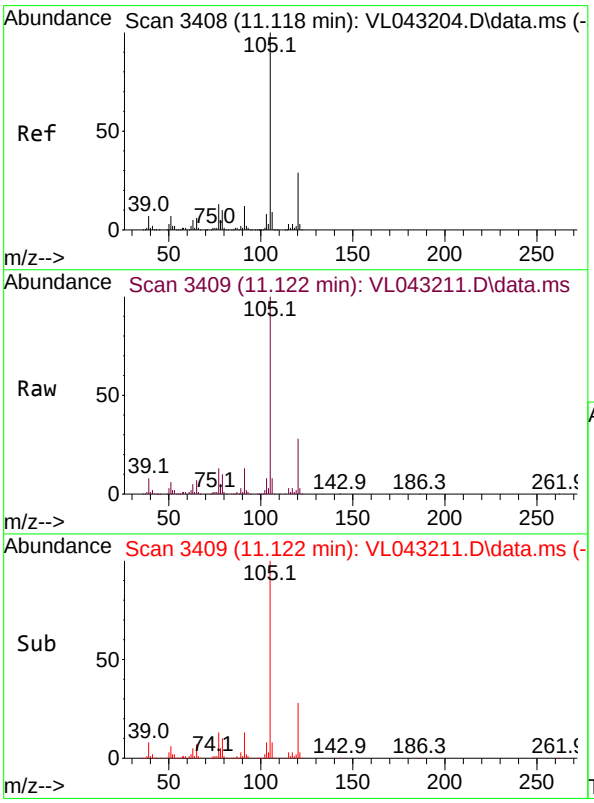
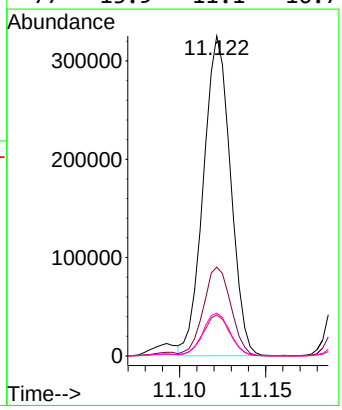
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

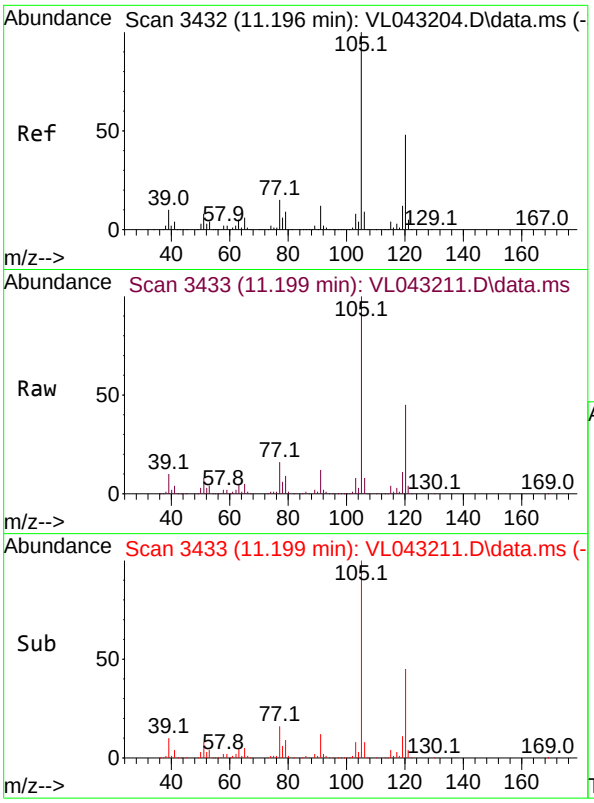


#72
4-Ethyltoluene
Concen: 8.779 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

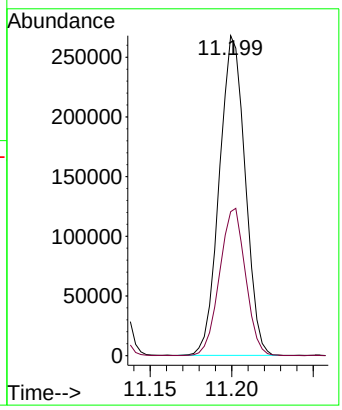




#73
1,3,5-Trimethylbenzene
Concen: 8.660 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:105 Resp: 29497

Ion	Ratio	Lower	Upper
105	100		
120	45.0	38.6	57.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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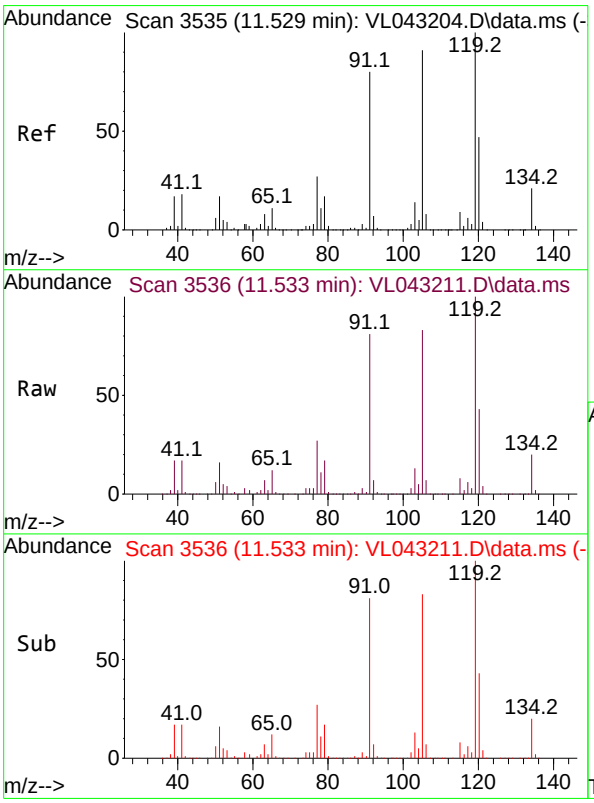
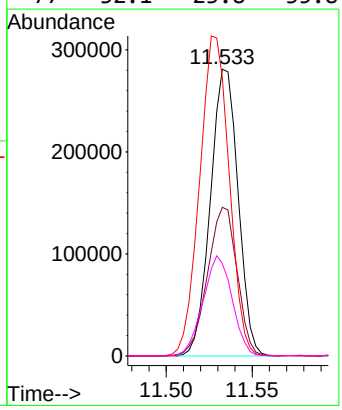
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

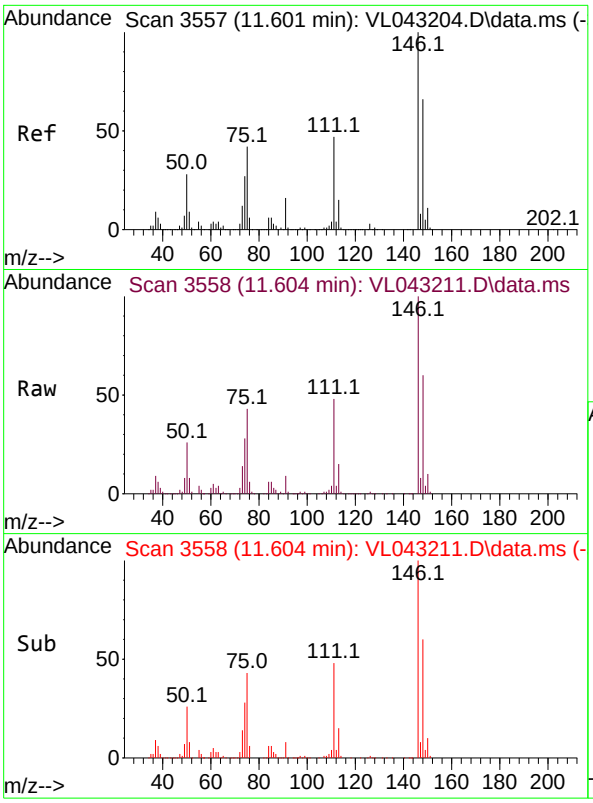


#74
1,2,4-Trimethylbenzene
Concen: 8.463 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

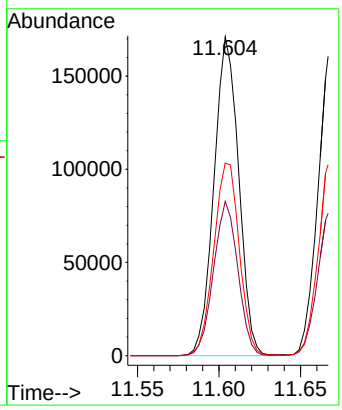




#75
1,3-Dichlorobenzene
Concen: 8.320 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

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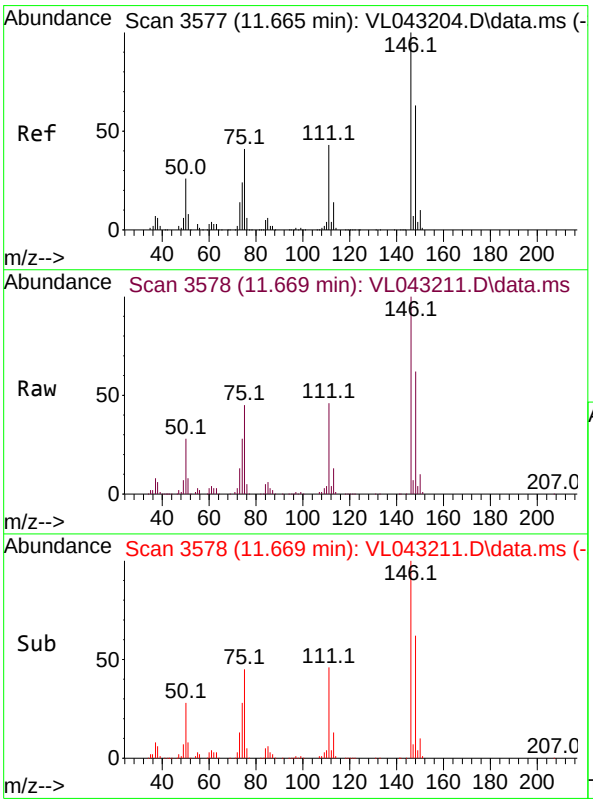
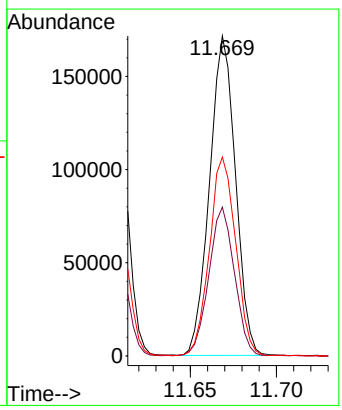
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

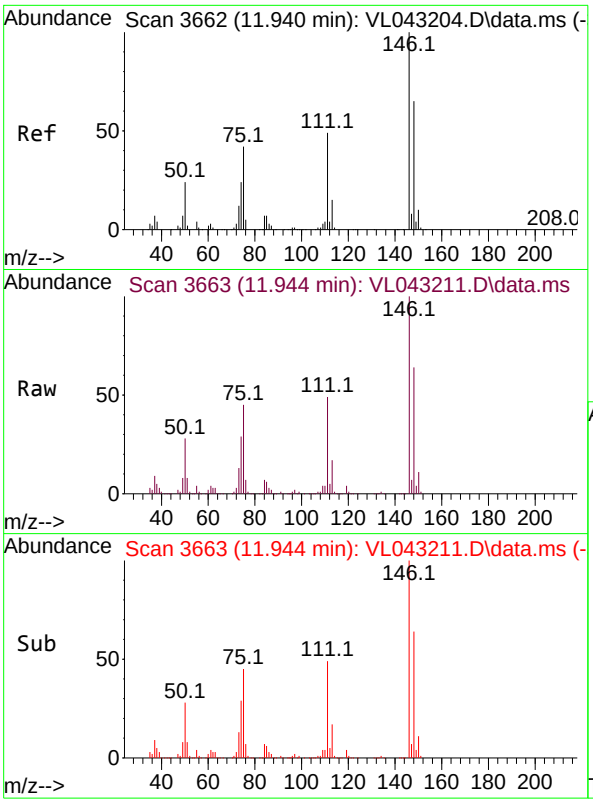


#76
1,4-Dichlorobenzene
Concen: 8.273 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

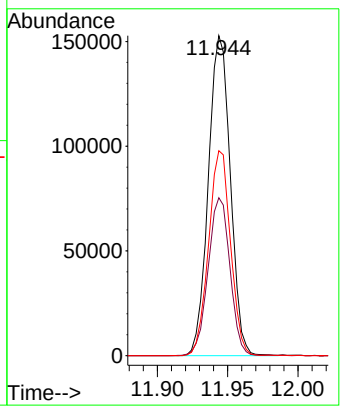




#77
1,2-Dichlorobenzene
Concen: 7.966 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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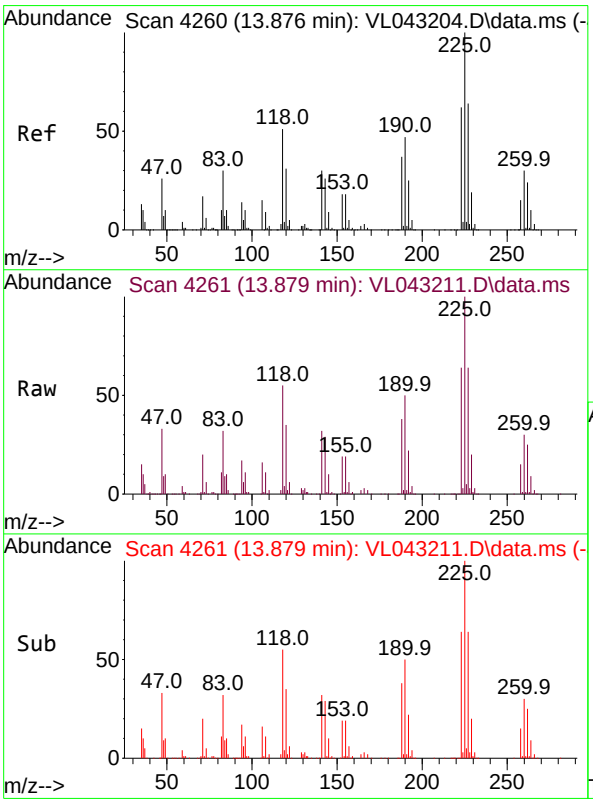
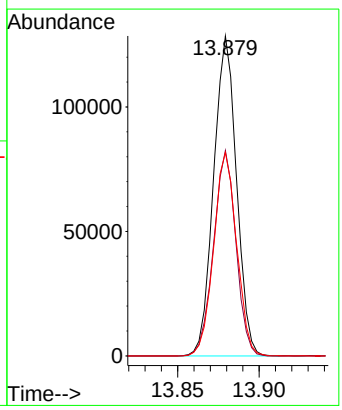
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

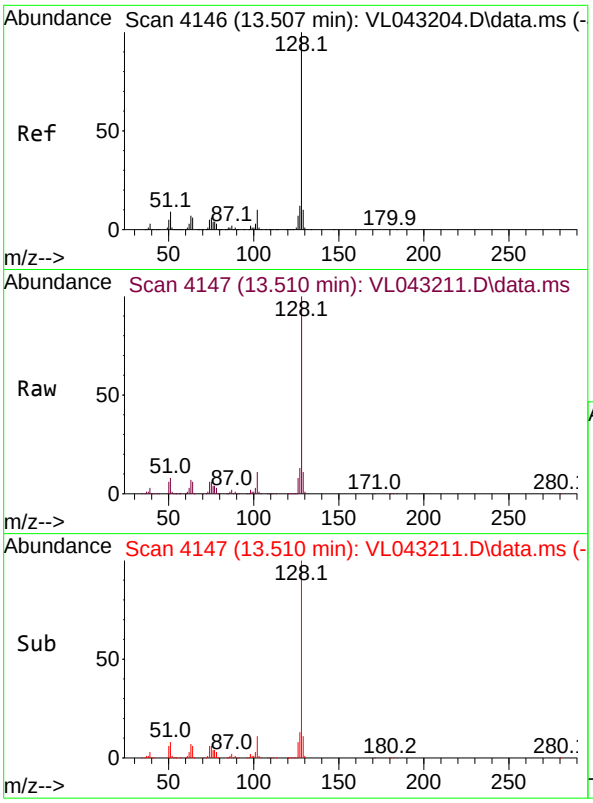


#78
Hexachloro-1,3-Butadiene
Concen: 7.222 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

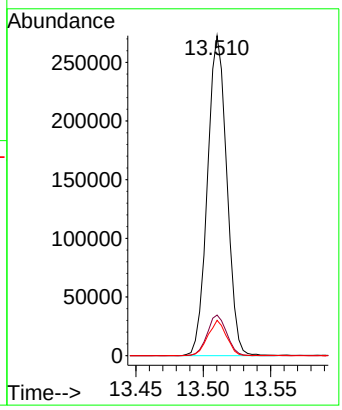




#79
Naphthalene
Concen: 8.270 ppbv
RT: 13.510 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:128 Resp: 273029

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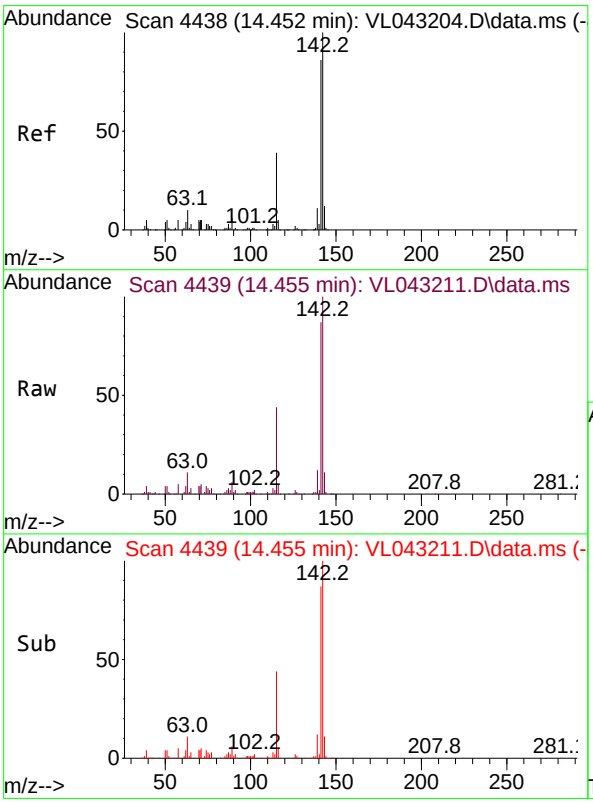
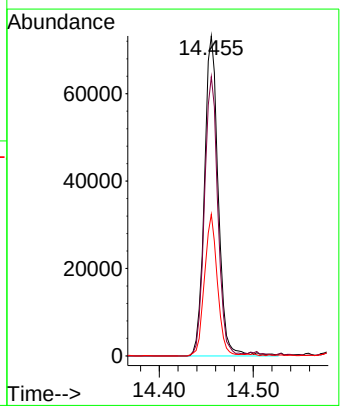
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

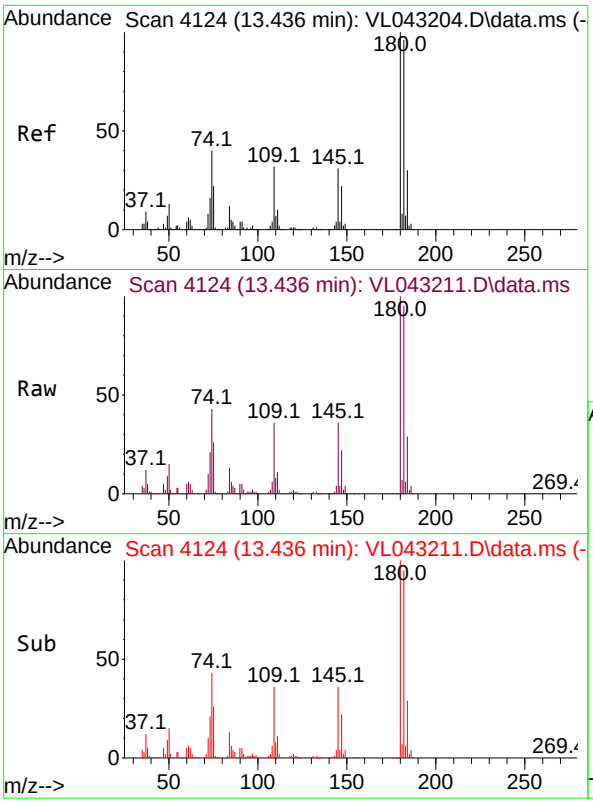


#80
Naphthalene,2-methyl-
Concen: 8.631 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

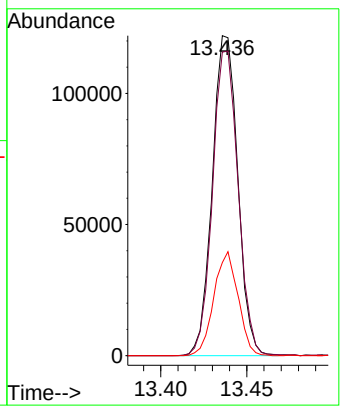




#81
1,2,4-Trichlorobenzene
Concen: 8.497 ppbv
RT: 13.436 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: RTPE01
Lab Code: ACE
SDG No.: Q3626
Instrument ID: MSVOA_L
Calibration Date/Time: 11/19/2025 09:31
Lab File ID: VL043232.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	1.558		10.5	30
Chloromethane	0.527	0.512		-2.85	30
Vinyl Chloride	0.577	0.534		-7.45	30
Bromomethane	0.280	0.288		2.86	30
Chloroethane	0.225	0.211		-6.22	30
Tetrahydrofuran	0.390	0.321		-17.69	30
Trichlorofluoromethane	1.367	1.629		19.17	30
1,1,2-Trichlorotrifluoroethane	1.067	1.206		13.03	30
Dichlorotetrafluoroethane	1.173	1.277		8.87	30
tert-Butyl alcohol	1.824	1.850		1.42	30
Heptane	1.753	1.467		-16.32	30
1,1-Dichloroethene	0.497	0.512		3.02	30
Acetone	1.389	1.171		-15.69	30
Carbon Disulfide	1.341	1.433		6.86	30
Methyl tert-Butyl Ether	0.645	0.662		2.64	30
Methylene Chloride	0.600	0.464		-22.67	30
trans-1,2-Dichloroethene	0.568	0.582		2.46	30
1,1-Dichloroethane	1.096	1.147		4.65	30
Cyclohexane	1.101	1.069		-2.91	30
2-Butanone	0.706	0.611		-13.46	30
Carbon Tetrachloride	0.759	0.827		8.96	30
cis-1,2-Dichloroethene	1.306	1.294		-0.92	30
Chloroform	1.867	2.085		11.68	30
1,1,1-Trichloroethane	1.990	2.212		11.16	30
2,2,4-Trimethylpentane	1.645	1.436		-12.7	30
Benzene	0.958	0.900		-6.05	30
1,2-Dichloroethane	0.560	0.598		6.79	30
Trichloroethene	0.375	0.371		-1.07	30
1,2-Dichloropropane	0.351	0.312		-11.11	30
Bromodichloromethane	0.773	0.815		5.43	30
4-Methyl-2-Pentanone	0.994	0.824		-17.1	30
Toluene	1.134	1.035		-8.73	30
t-1,3-Dichloropropene	0.474	0.432		-8.86	30
cis-1,3-Dichloropropene	0.556	0.498		-10.43	30
1,1,2-Trichloroethane	0.372	0.362		-2.69	30
Dibromochloromethane	0.640	0.689		7.66	30
1,2-Dibromoethane	0.547	0.559		2.19	30
Tetrachloroethene	0.356	0.358		0.56	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.: Q3626

Instrument ID: MSVOA_L Calibration Date/Time: 11/19/2025 09:31

Lab File ID: VL043232.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	1.026		-0.1	30
Ethyl Benzene	1.925	1.872		-2.75	30
m/p-Xylene	1.543	1.536		-0.45	30
o-Xylene	1.542	1.546		0.26	30
Styrene	0.675	0.637		-5.63	30
Bromoform	0.566	0.629		11.13	30
1,1,2,2-Tetrachloroethane	0.981	0.951		-3.06	30
2-Chlorotoluene	2.120	2.125		0.24	30
1,3,5-Trimethylbenzene	1.575	1.616		2.6	30
1,2,4-Trimethylbenzene	1.719	1.767		2.79	30
1,3-Dichlorobenzene	1.003	1.060		5.68	30
1,4-Dichlorobenzene	1.003	1.072		6.88	30
1,2-Dichlorobenzene	0.965	1.012		4.87	30
1,2,4-Trichlorobenzene	0.683	0.788		15.37	30
Hexachloro-1,3-Butadiene	0.805	0.848		5.34	30
1,3-Butadiene	0.619	0.581		-6.14	30
Naphthalene	1.527	1.619		6.03	30
4-Ethyltoluene	1.877	1.904		1.44	30
1-Bromo-4-Fluorobenzene	0.733	0.744		1.5	30
Hexane	1.314	1.181		-10.12	30
Allyl Chloride	0.935	0.882		-5.67	30
1,4-Dioxane	157.566	141.545		-10.17	30
Methyl Methacrylate	0.508	0.433		-14.76	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\VL111925\
Data File : VL043232.D
Acq On : 19 Nov 2025 09:31
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:01:40 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	2.784	49	92858	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.953	114	261062	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	210840	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	156782	10.145	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	144631	11.043	ppbv	99
3) Chlorodifluoromethane	1.476	51	122519	9.512	ppbv	94
4) Chloromethane	1.531	50	47574	9.715	ppbv	99
5) Vinyl Chloride	1.580	62	49554	9.253	ppbv	95
6) Bromomethane	1.667	94	26743	10.302	ppbv	96
7) Chloroethane	1.703	64	19615	9.405	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	118618	10.888	ppbv	100
9) Propene	1.483	41	46944m	8.583	ppbv	
10) Heptane	4.972	43	136196	8.367	ppbv	99
11) Trichlorofluoromethane	1.878	101	151279	11.922	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	112009	11.306	ppbv	96
13) Ethanol	1.719	45	16875	8.774	ppbv	97
14) Bromoethene	1.781	108	40850	10.756	ppbv	93
15) Acetone	1.833	43	108749	8.429	ppbv	96
16) 1,3-Butadiene	1.609	39	53970	9.384	ppbv	96
17) tert-Butyl alcohol	2.036	59	171765	10.143	ppbv	99
18) 1,1-Dichloroethene	2.033	96	47565	10.312	ppbv	93
19) Isopropyl Alcohol	1.884	45	68870	9.447	ppbv	98
20) Methylene Chloride	2.059	84	43061	11.440	ppbv	93
21) Allyl Chloride	2.095	41	81929	9.439	ppbv	93
22) trans-1,2-Dichloroethene	2.341	96	54055	10.253	ppbv	94
23) Vinyl Acetate	2.460	43	145062	9.314	ppbv	98
24) 1,1-Dichloroethane	2.405	63	106518	10.467	ppbv	99
25) Ethyl Acetate	2.829	43	245441	8.821	ppbv	99
26) Hexane	2.823	57	109619	8.986	ppbv	98
27) Carbon Disulfide	2.150	76	133103	10.687	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	61465	10.265	ppbv	96
29) Chloroform	2.846	83	193620	11.166	ppbv	99
30) Cyclohexane	3.849	84	99278	9.707	ppbv	90
31) cis-1,2-Dichloroethene	2.719	61	120121	9.907	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	205379	11.112	ppbv	99
34) 2-Butanone	2.551	43	159571	8.659	ppbv	99
35) Carbon Tetrachloride	3.758	117	215989	10.900	ppbv	99
36) Benzene	3.651	78	235020	9.400	ppbv	97
37) 1,2-Dichloroethane	3.215	62	156071	10.672	ppbv	96
38) Trichloroethene	4.542	130	96860	9.902	ppbv	97
39) 1,2-Dichloropropane	4.305	63	81356	8.891	ppbv	86
40) 1,4-Dioxane	4.571	88	36952	8.983	ppbv #	98
41) Tetrahydrofuran	3.046	42	83683	8.223	ppbv	96
42) Bromodichloromethane	4.480	83	212816	10.549	ppbv	96
43) Methyl Methacrylate	4.868	69	112985	8.514	ppbv	95
44) 2,2,4-Trimethylpentane	4.632	57	374848	8.730	ppbv	97
45) t-1,3-Dichloropropene	6.403	75	112704	9.111	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043232.D
Acq On : 19 Nov 2025 09:31
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:01:40 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	5.590	75	129954	8.947	ppbv		99
47) 1,1,2-Trichloroethane	6.577	97	94544m	9.736	ppbv		
48) Dibromochloromethane	7.377	129	179951	10.778	ppbv		97
49) Bromoform	9.477	173	164309	11.110	ppbv		99
50) 4-Methyl-2-Pentanone	5.736	43	215210	8.290	ppbv		100
51) 2-Hexanone	7.422	43	168100	8.339	ppbv	#	100
52) Tetrachloroethene	8.218	164	93448	10.048	ppbv		98
53) Toluene	6.927	91	270136	9.125	ppbv		99
54) 1,2-Dibromoethane	7.646	107	146059	10.221	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.918	131	164526	10.618	ppbv		97
57) Chlorobenzene	8.914	112	216324	9.993	ppbv		96
58) Ethyl Benzene	9.348	91	394701	9.726	ppbv		100
59) m/p-Xylene	9.542	91	647617m	19.905	ppbv		
60) o-Xylene	9.956	91	326016	10.030	ppbv		100
61) Styrene	9.863	104	134337	9.444	ppbv		99
62) Isopropylbenzene	10.533	105	588476	10.120	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	200465	9.693	ppbv		99
64) n-propylbenzene	10.982	120	151292	10.126	ppbv		99
65) tert-Butylbenzene	11.526	119	523483	10.080	ppbv		99
66) Benzyl Chloride	11.610	91	41211	7.820	ppbv		99
67) sec-Butylbenzene	11.762	105	733799	10.123	ppbv		99
69) p-Isopropyltoluene	11.921	119	627991	10.227	ppbv		99
70) n-Butylbenzene	12.277	91	618379	10.380	ppbv		99
71) 2-Chlorotoluene	10.895	91	448104	10.026	ppbv		99
72) 4-Ethyltoluene	11.122	105	401514	10.144	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	340623	10.255	ppbv		94
74) 1,2,4-Trimethylbenzene	11.533	105	372542	10.277	ppbv		93
75) 1,3-Dichlorobenzene	11.604	146	223492	10.565	ppbv		99
76) 1,4-Dichlorobenzene	11.669	146	226095	10.686	ppbv		99
77) 1,2-Dichlorobenzene	11.944	146	213424	10.494	ppbv		99
78) Hexachloro-1,3-Butadiene	13.876	225	178749	10.531	ppbv		100
79) Naphthalene	13.510	128	341298	10.601	ppbv		99
80) Naphthalene,2-methyl-	14.452	142	86195	10.199	ppbv		99
81) 1,2,4-Trichlorobenzene	13.436	180	166081	11.534	ppbv		100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043232.D
Acq On : 19 Nov 2025 09:31
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:01:40 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
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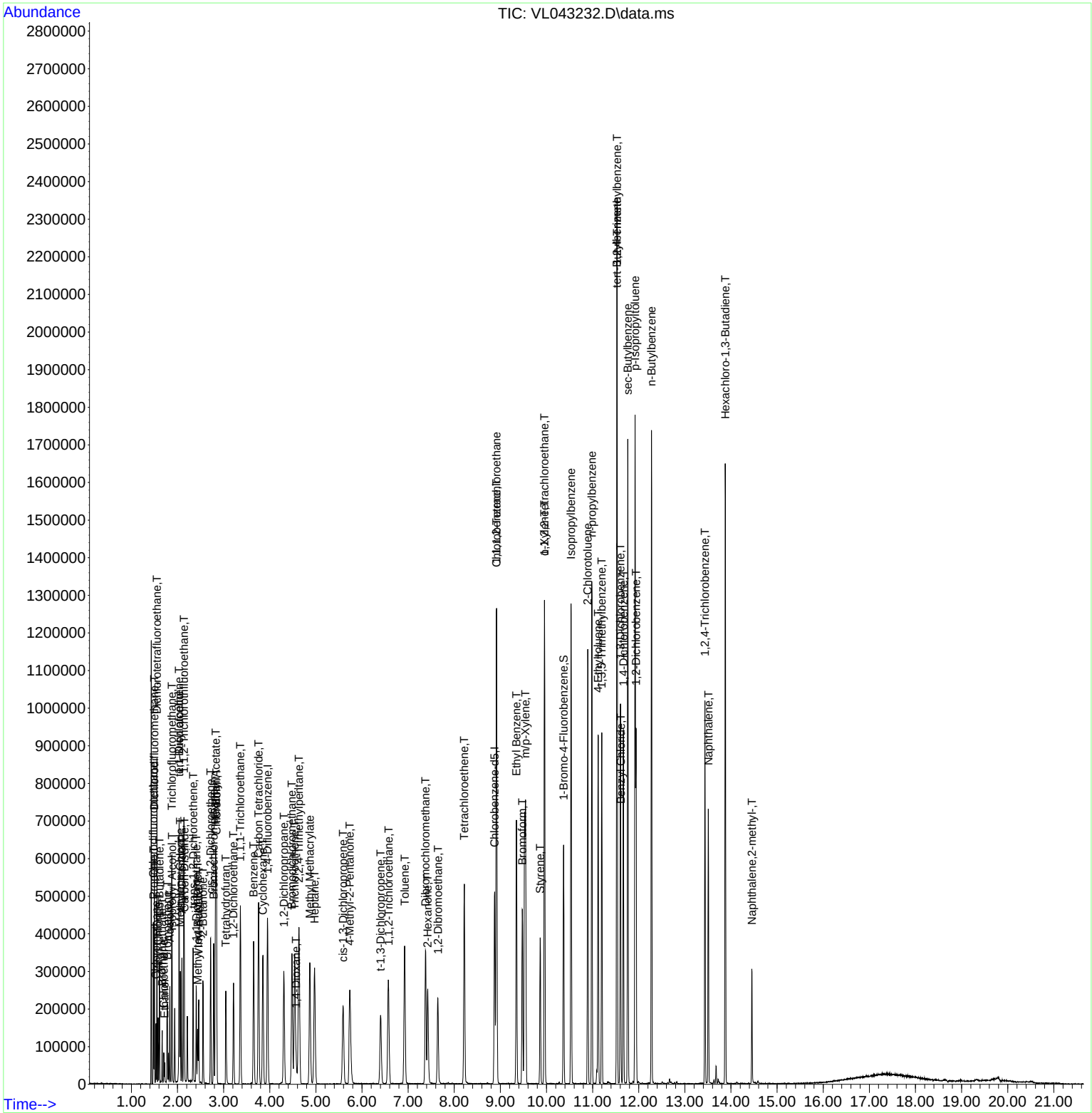
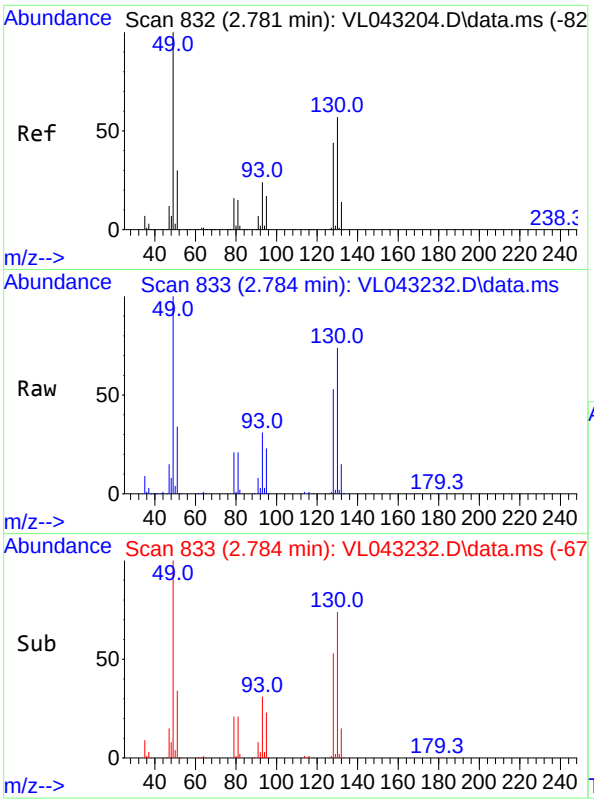
Supervised By :Mahesh Dadoda 11/21/2025

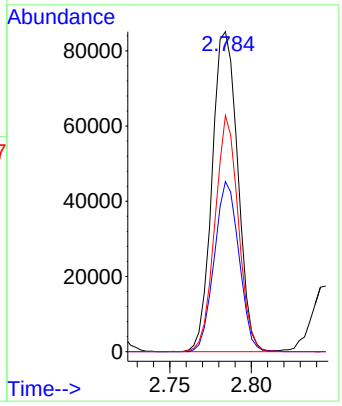




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 49 Resp: 9285

Ion	Ratio	Lower	Upper
49	100		
128	51.3	23.0	69.0
130	67.6	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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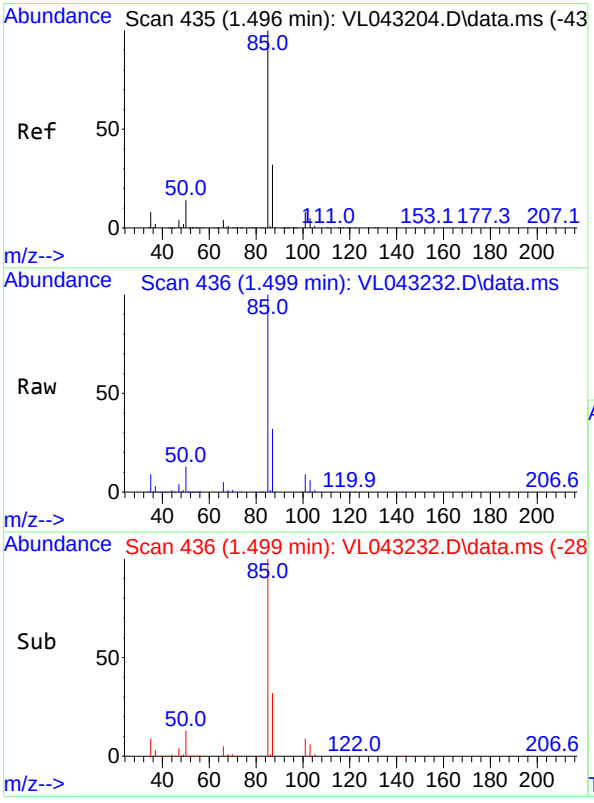
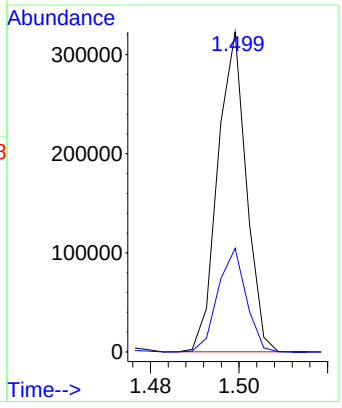
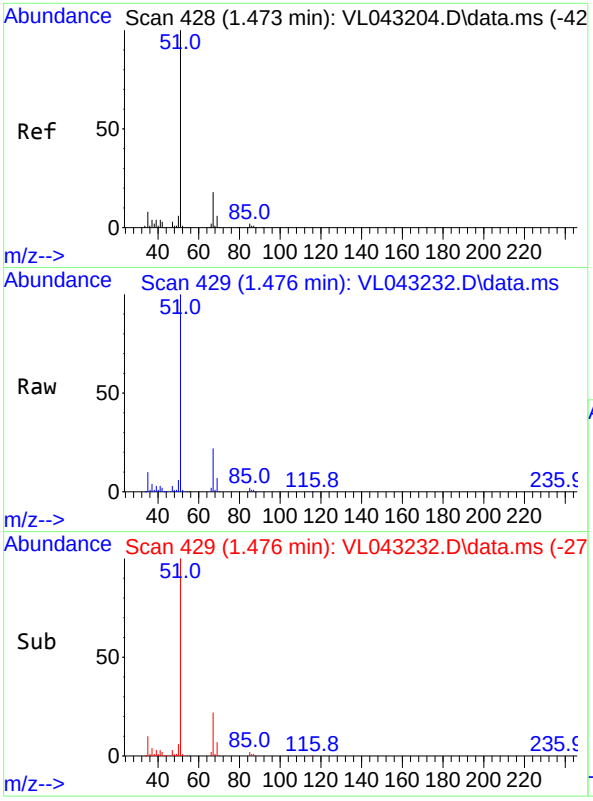


#2
Dichlorodifluoromethane
Concen: 11.043 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 85 Resp: 144631

Ion	Ratio	Lower	Upper
85	100		
87	32.4	25.4	38.2

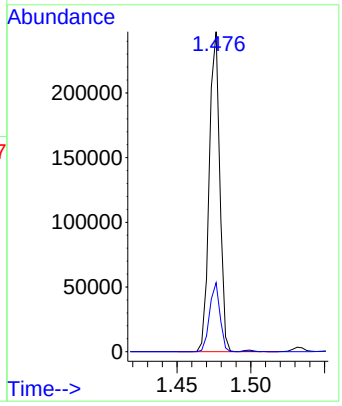




#3
Chlorodifluoromethane
Concen: 9.512 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 51 Resp: 12251

Ion	Ratio	Lower	Upper
51	100		
67	21.4	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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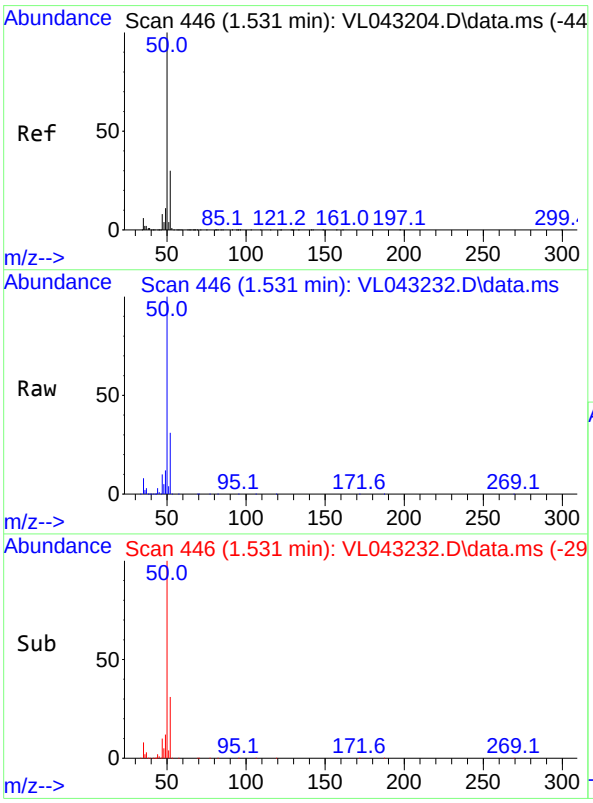
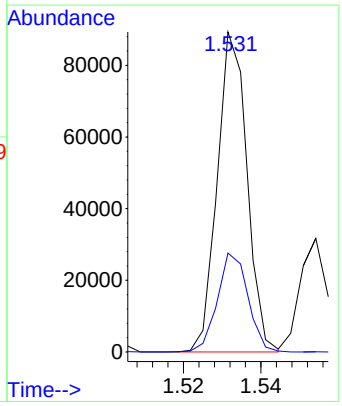
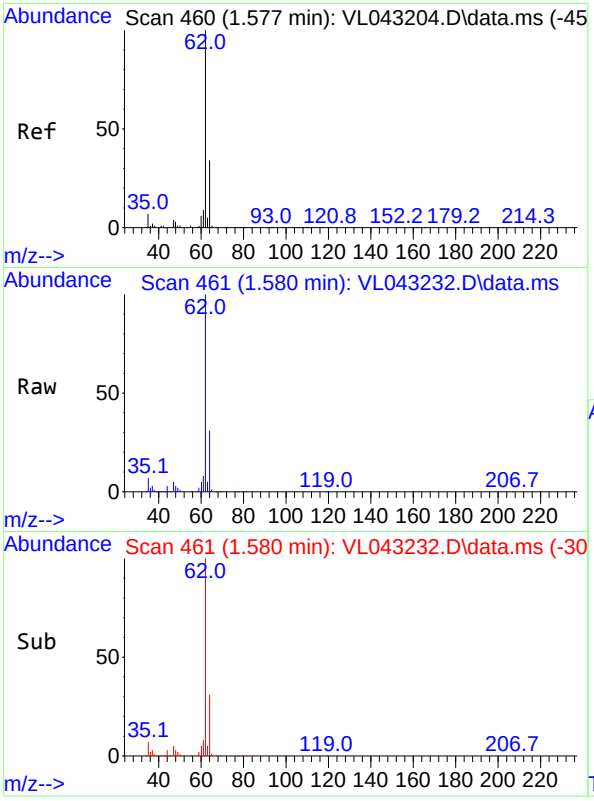


#4
Chloromethane
Concen: 9.715 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 50 Resp: 47574

Ion	Ratio	Lower	Upper
50	100		
52	30.8	24.1	36.1

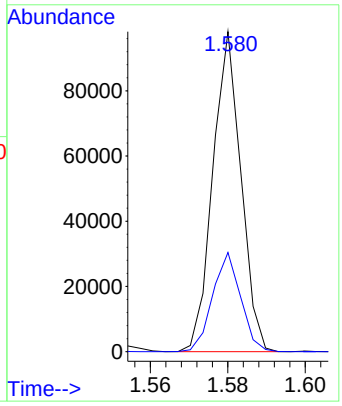




#5
Vinyl Chloride
Concen: 9.253 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 62 Resp: 4955

Ion	Ratio	Lower	Upper
62	100		
64	30.9	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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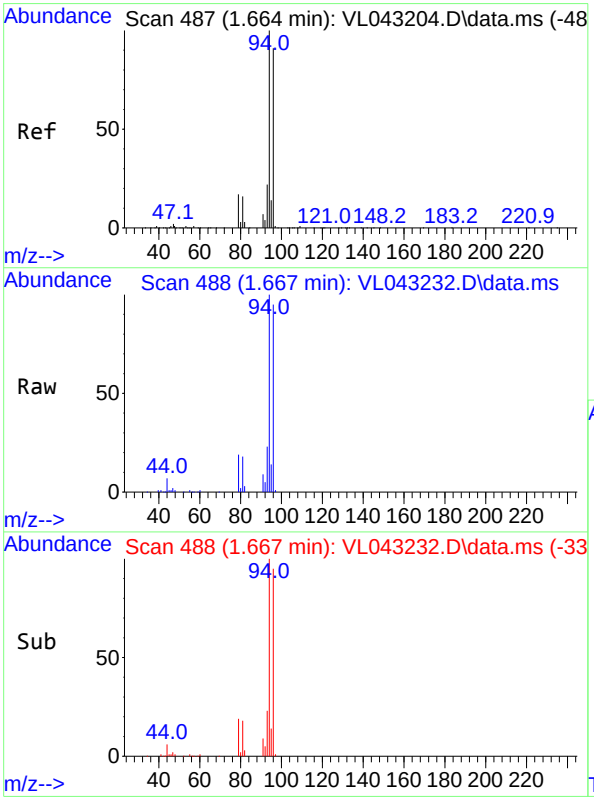
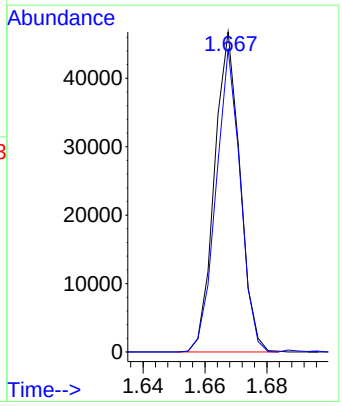
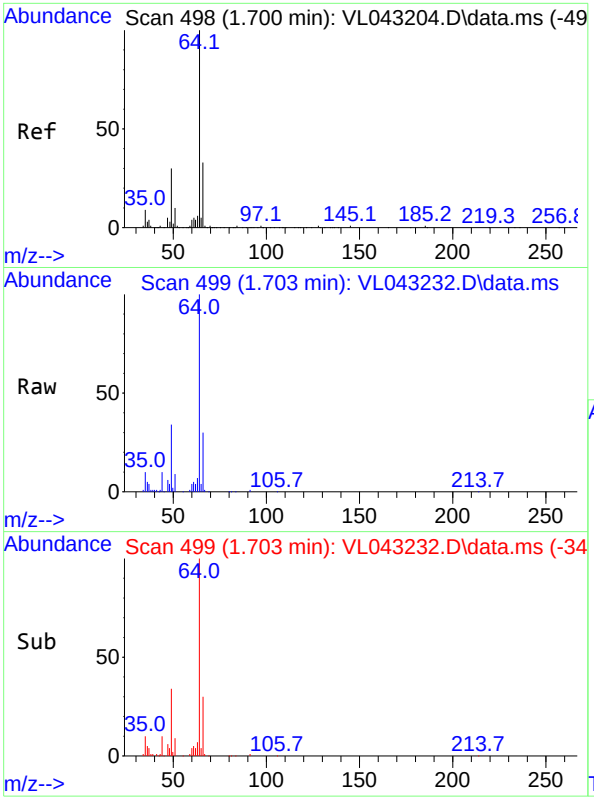


#6
Bromomethane
Concen: 10.302 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 94 Resp: 26743

Ion	Ratio	Lower	Upper
94	100		
96	94.8	72.9	109.3

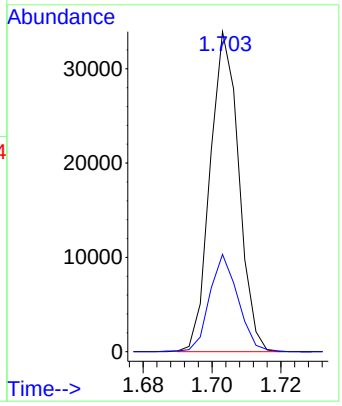




#7
Chloroethane
Concen: 9.405 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 64 Resp: 1961

Ion	Ratio	Lower	Upper
64	100		
66	30.4	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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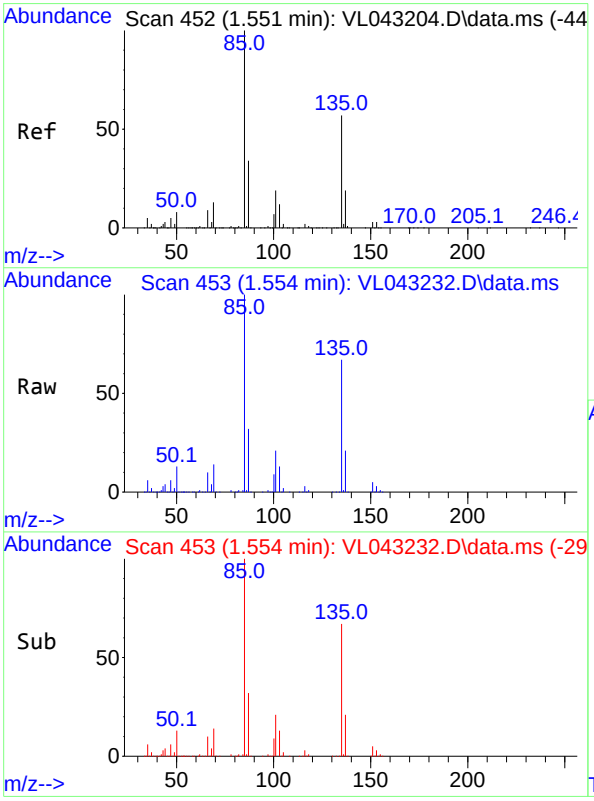
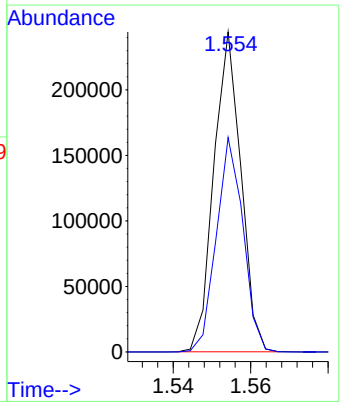
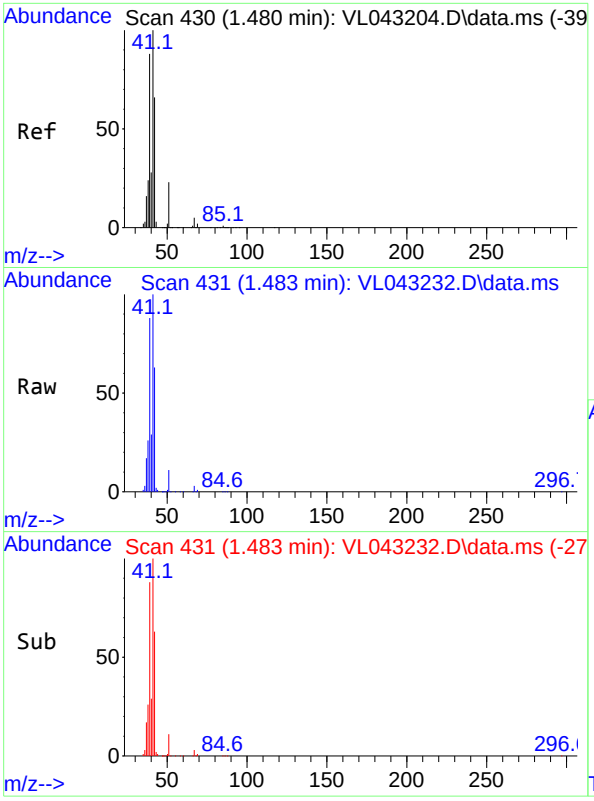


#8
Dichlorotetrafluoroethane
Concen: 10.888 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 85 Resp: 118618

Ion	Ratio	Lower	Upper
85	100		
135	66.2	52.6	79.0

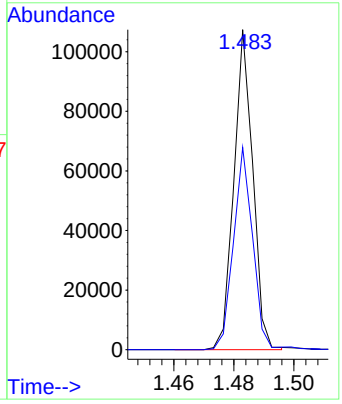




#9
Propene
Concen: 8.583 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 41 Resp: 4694

Ion	Ratio	Lower	Upper
41	100		
42	5.7	3.7	5.5



Instrument :
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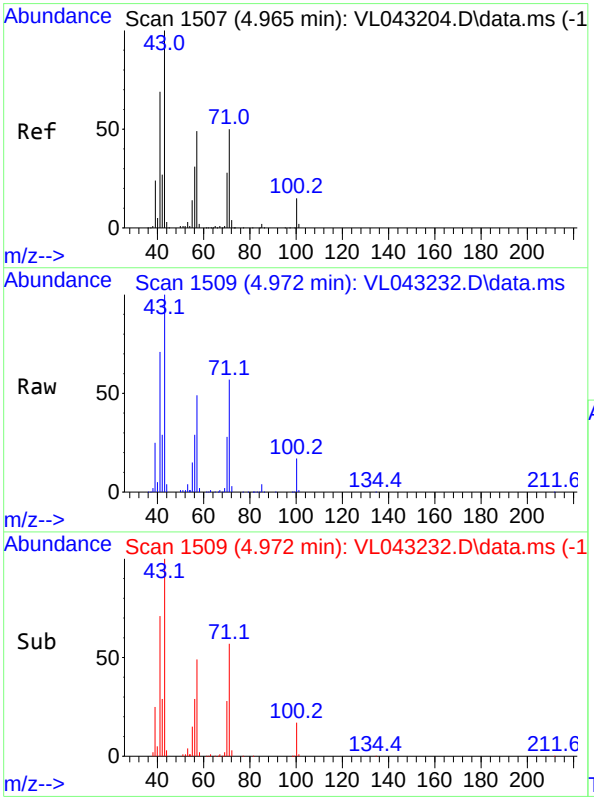
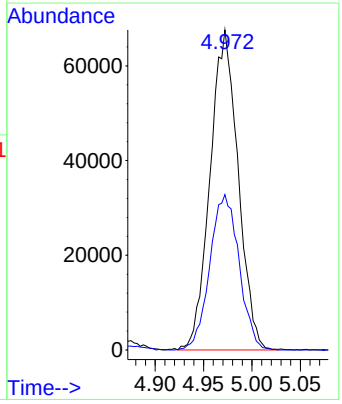
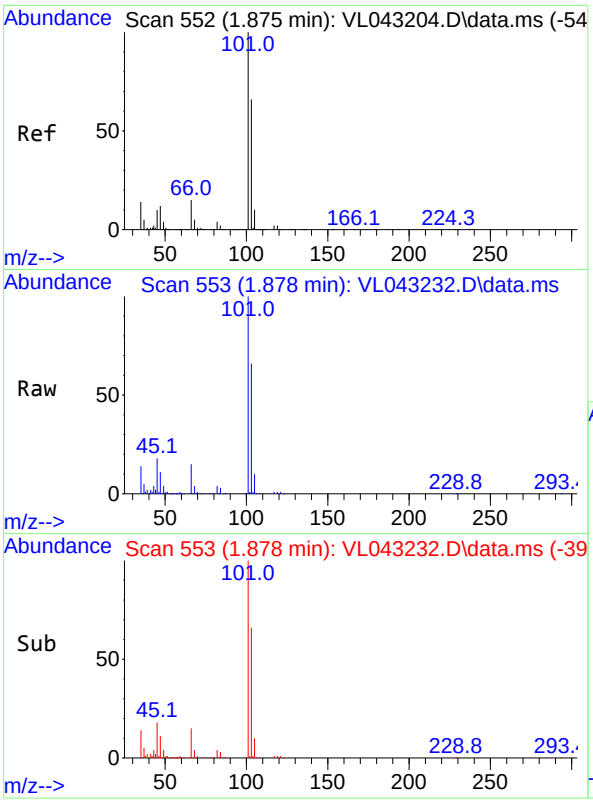


#10
Heptane
Concen: 8.367 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 43 Resp: 136196

Ion	Ratio	Lower	Upper
43	100		
57	50.6	39.7	59.5

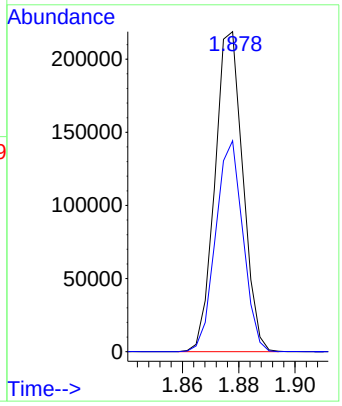




#11
Trichlorofluoromethane
Concen: 11.922 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:101 Resp: 15127

Ion	Ratio	Lower	Upper
101	100		
103	65.9	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
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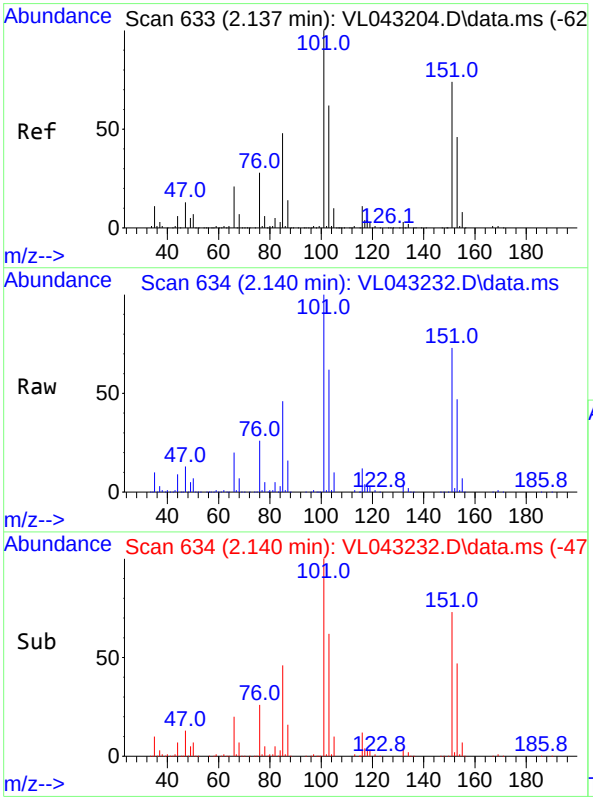
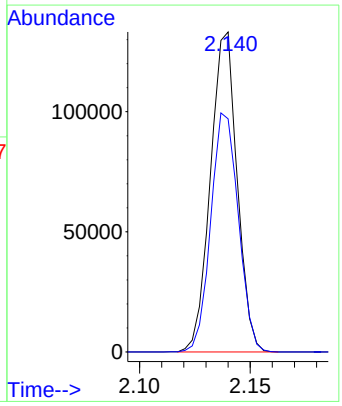
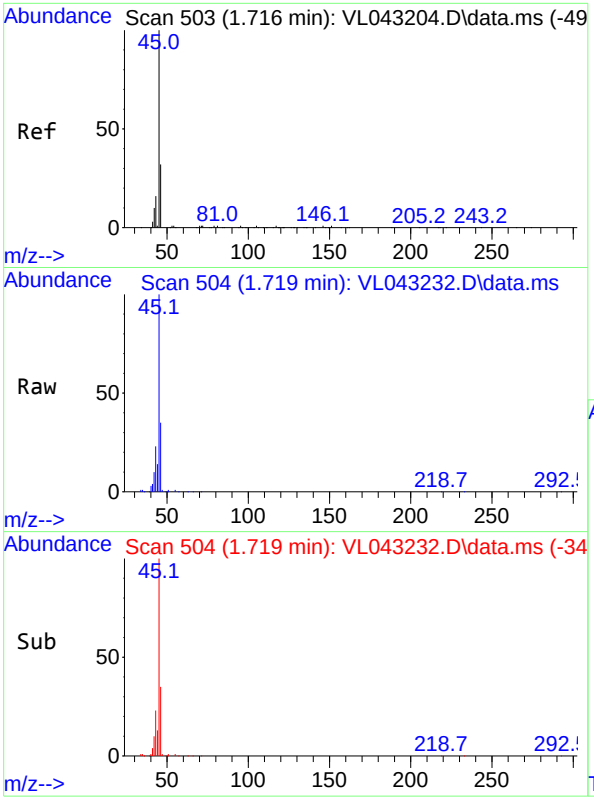


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.306 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:101 Resp: 112009

Ion	Ratio	Lower	Upper
101	100		
151	77.0	59.2	88.8

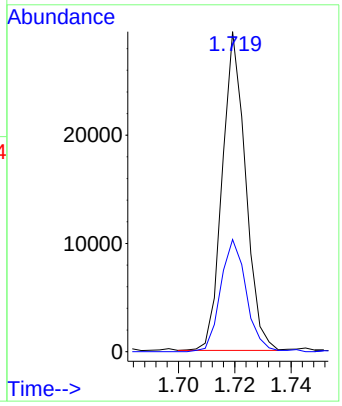




#13
Ethanol
Concen: 8.774 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 45 Resp: 1687

Ion	Ratio	Lower	Upper
45	100		
46	39.3	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
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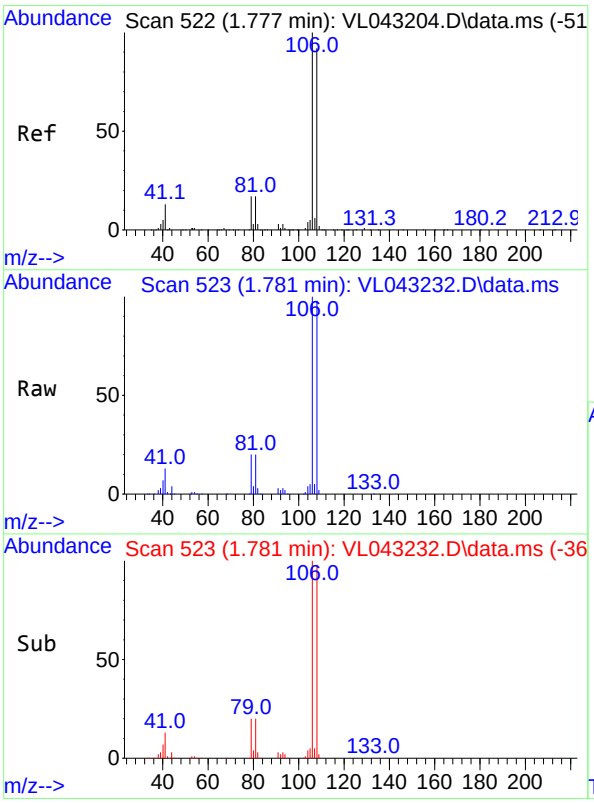
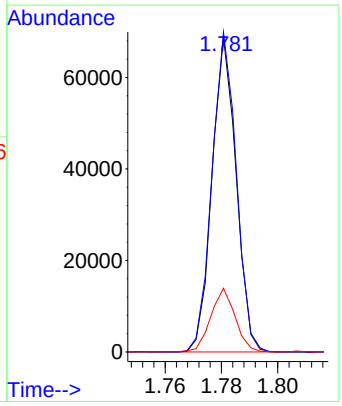
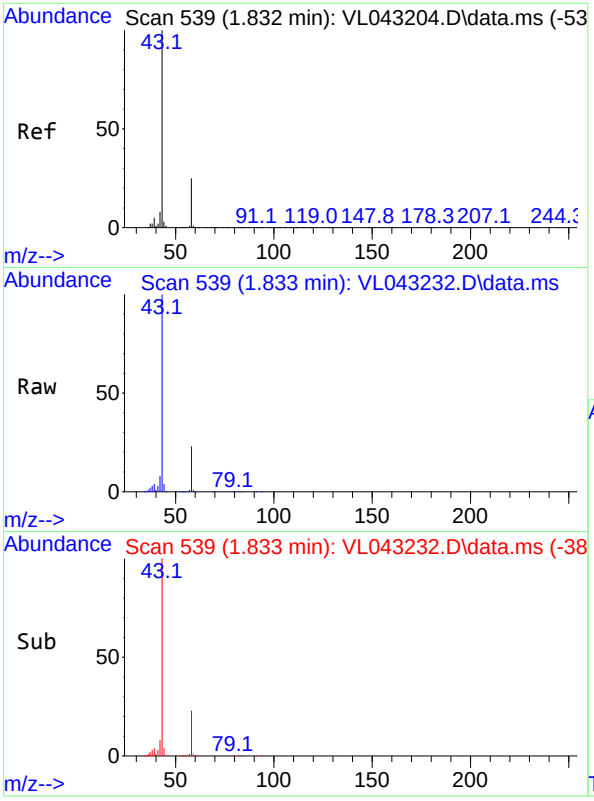


#14
Bromoethene
Concen: 10.756 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:108 Resp: 40850

Ion	Ratio	Lower	Upper
108	100		
106	102.4	88.9	133.3
79	20.7	16.5	24.7

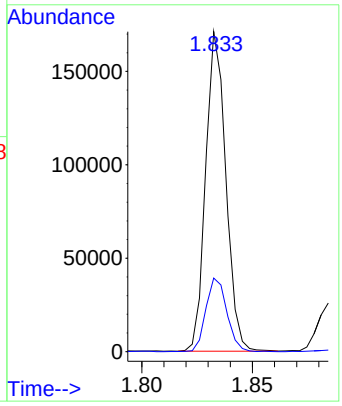




#15
Acetone
Concen: 8.429 ppbv
RT: 1.833 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 43 Resp: 10874

Ion	Ratio	Lower	Upper
43	100		
58	24.1	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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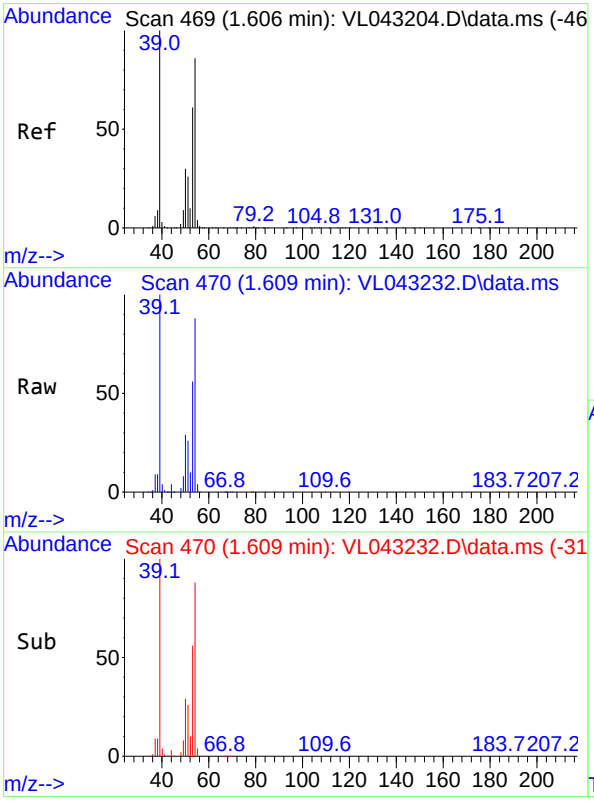
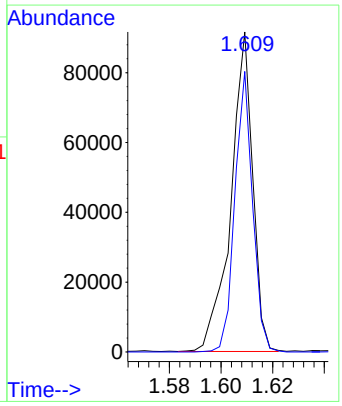
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

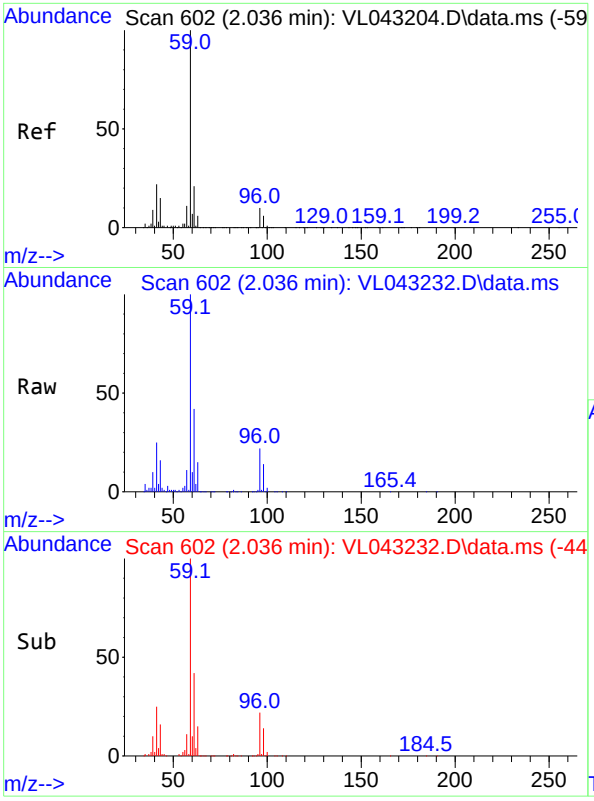


#16
1,3-Butadiene
Concen: 9.384 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 39 Resp: 53970

Ion	Ratio	Lower	Upper
39	100		
54	71.2	59.4	89.2

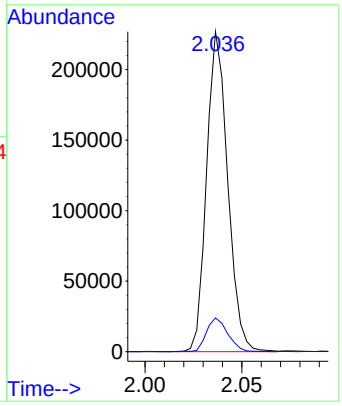




#17
tert-Butyl alcohol
Concen: 10.143 ppbv
RT: 2.036 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 59 Resp: 17176

Ion	Ratio	Lower	Upper
59	100		
57	10.8	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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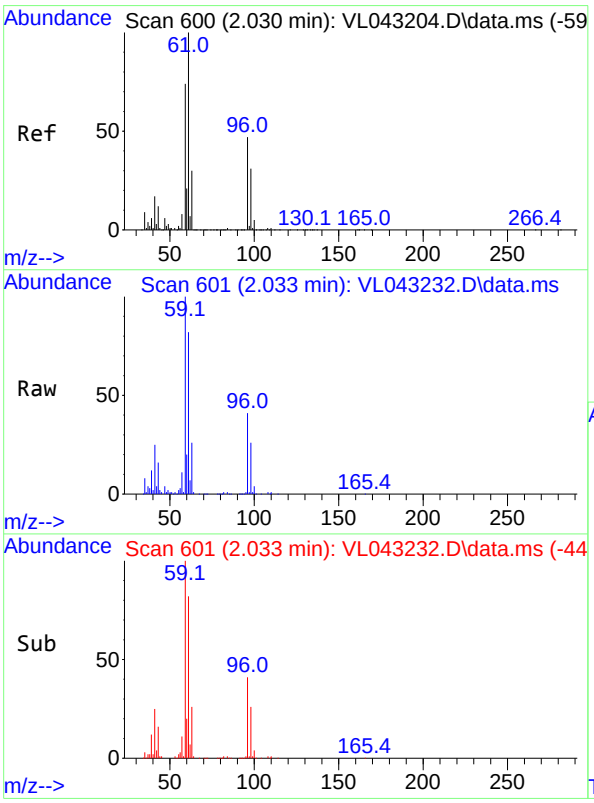
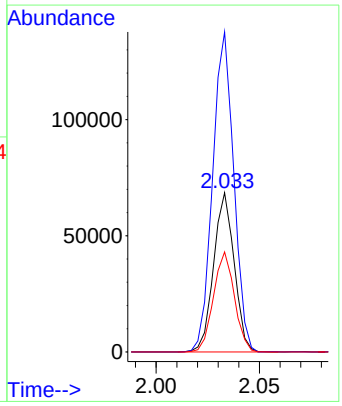
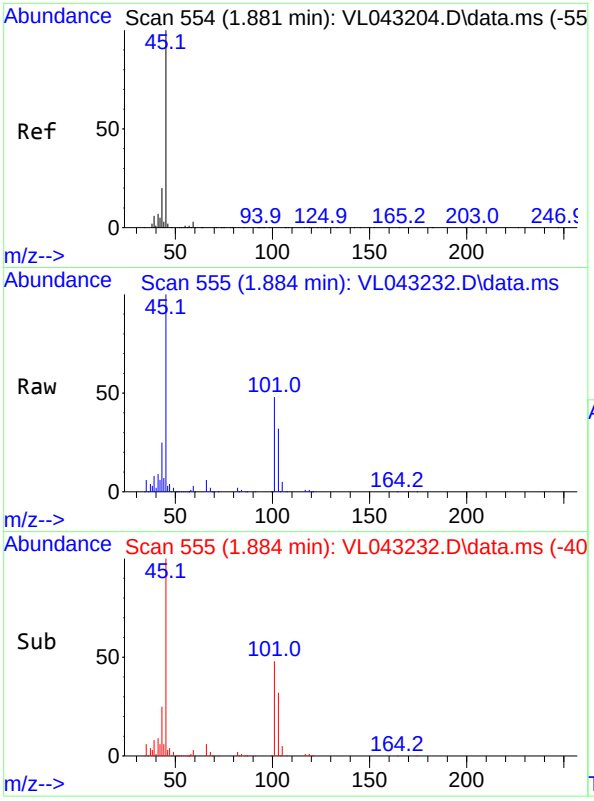


#18
1,1-Dichloroethene
Concen: 10.312 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 96 Resp: 47565

Ion	Ratio	Lower	Upper
96	100		
61	201.1	170.6	255.8
98	62.9	52.2	78.4

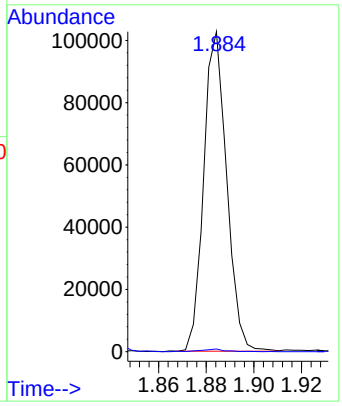




#19
Isopropyl Alcohol
Concen: 9.447 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 45 Resp: 6887

Ion	Ratio	Lower	Upper
45	100		
58	38.1	31.3	46.9



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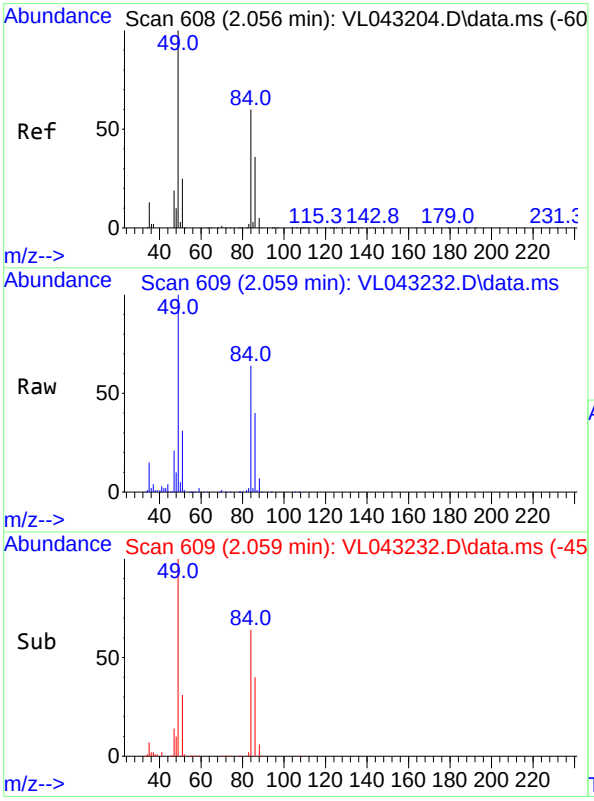
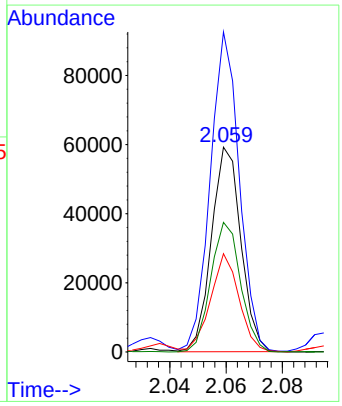
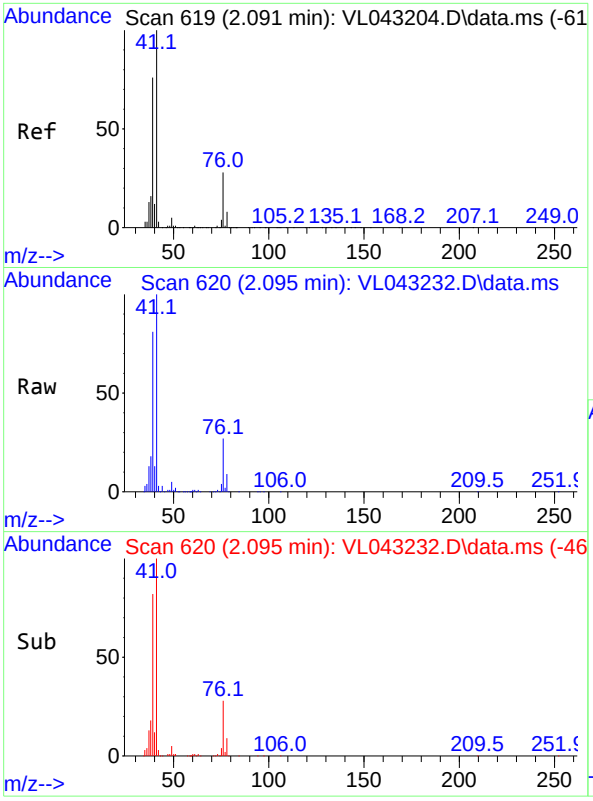


#20
Methylene Chloride
Concen: 11.440 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 84 Resp: 43061

Ion	Ratio	Lower	Upper
84	100		
49	156.1	132.9	199.3
51	47.7	34.8	52.2
86	63.4	48.2	72.2

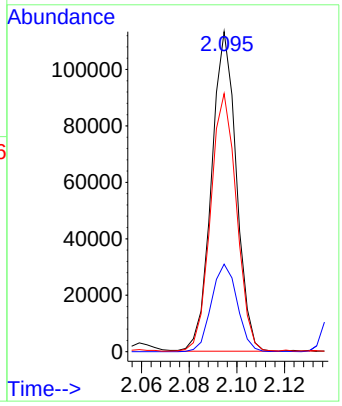




#21
Allyl Chloride
Concen: 9.439 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 41 Resp: 8192

Ion	Ratio	Lower	Upper
41	100		
76	28.5	22.1	33.1
39	84.2	61.0	91.4



Instrument :
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ClientSampleId :
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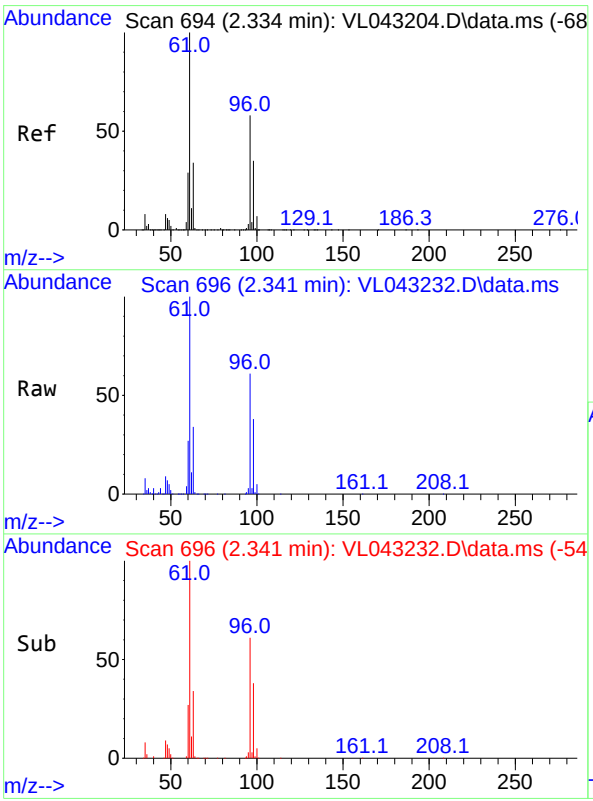
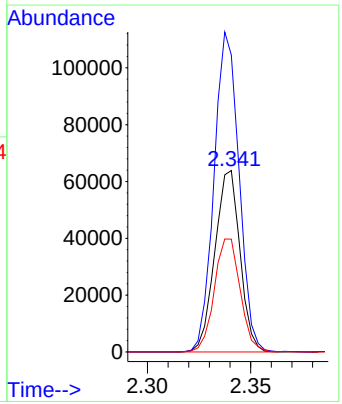
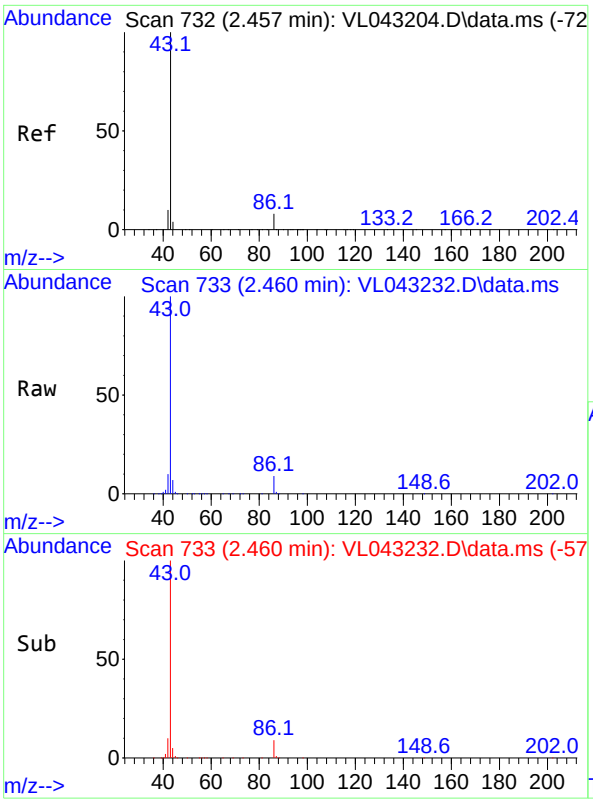


#22
trans-1,2-Dichloroethene
Concen: 10.253 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 96 Resp: 54055

Ion	Ratio	Lower	Upper
96	100		
61	163.6	139.0	208.6
98	62.2	49.4	74.2

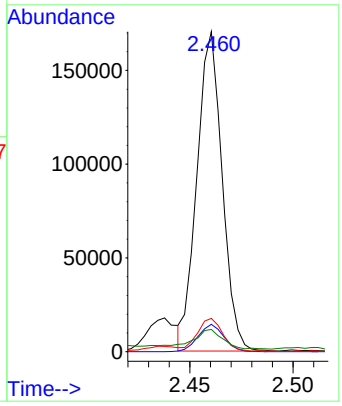




#23
Vinyl Acetate
Concen: 9.314 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 43 Resp: 14506

Ion	Ratio	Lower	Upper
43	100		
86	8.6	6.2	9.2
42	10.4	8.0	12.0
44	6.0	4.0	6.0



Instrument :
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ClientSampleId :
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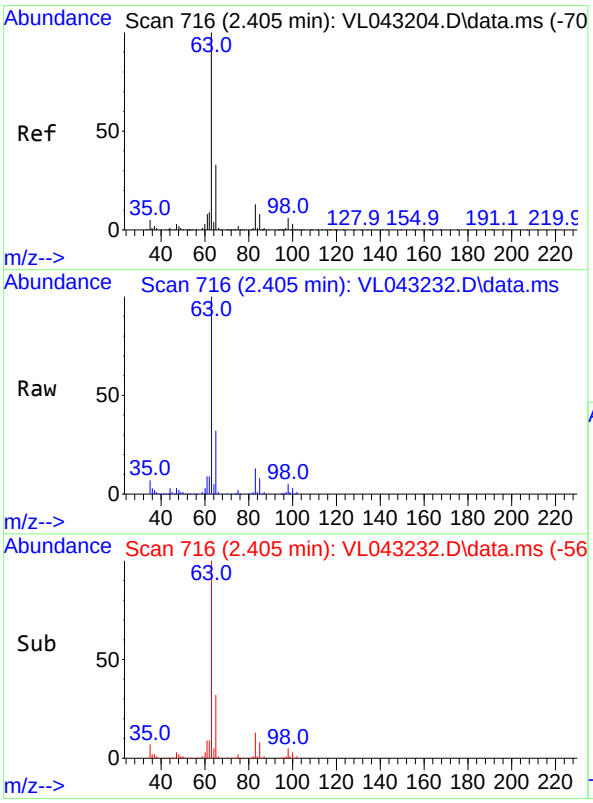
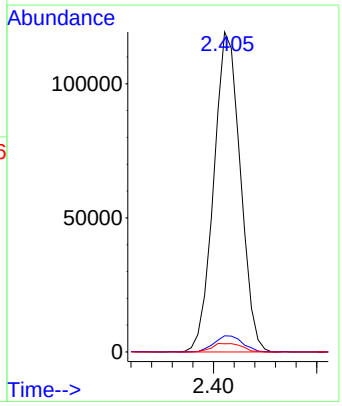
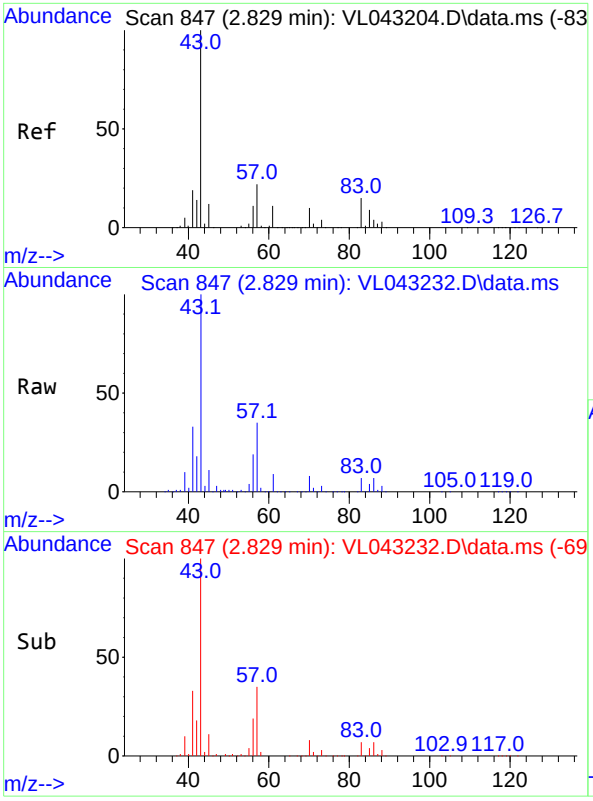


#24
1,1-Dichloroethane
Concen: 10.467 ppbv
RT: 2.405 min Scan# 716
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 63 Resp: 106518

Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.8	8.4
100	2.5	1.3	3.9

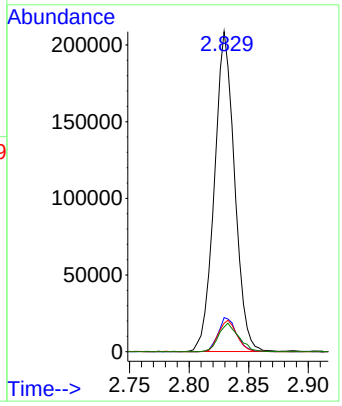




#25
Ethyl Acetate
Concen: 8.821 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 43 Resp: 24544

Ion	Ratio	Lower	Upper
43	100		
45	9.8	8.1	12.1
61	9.0	7.0	10.4
70	8.8	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
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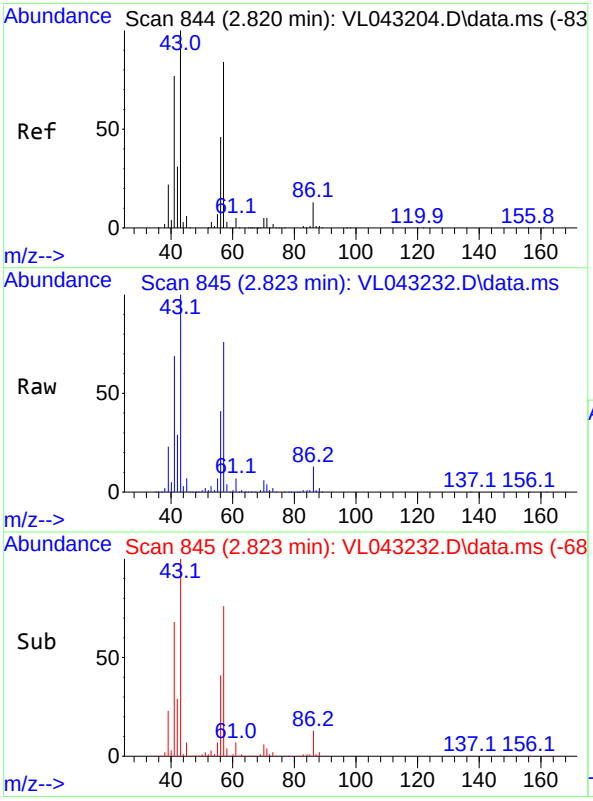
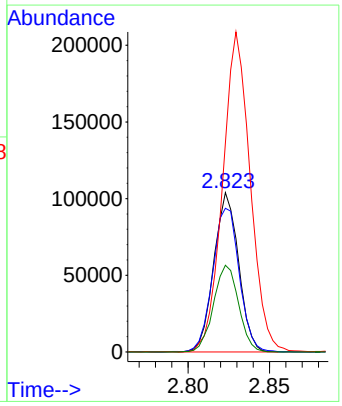
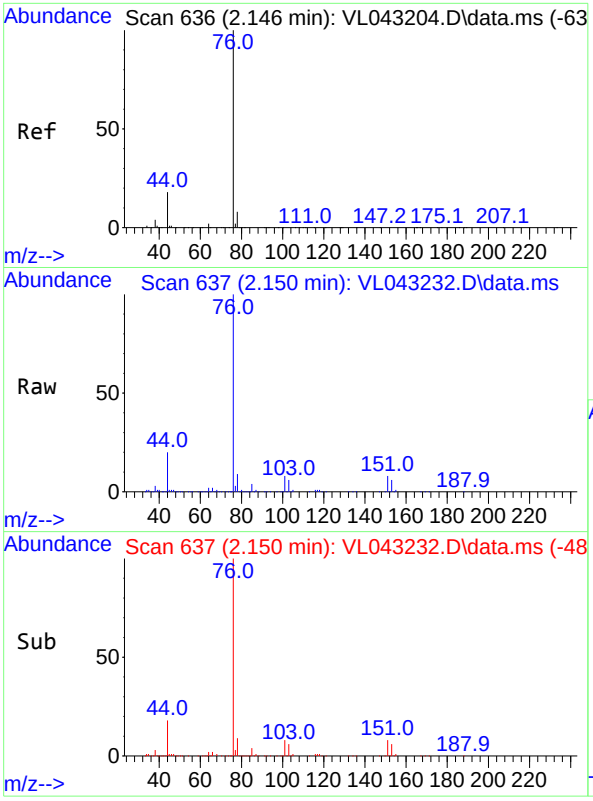


#26
Hexane
Concen: 8.986 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 57 Resp: 109619

Ion	Ratio	Lower	Upper
57	100		
41	97.5	74.6	111.8
43	225.2	179.0	268.4
56	55.3	42.3	63.5

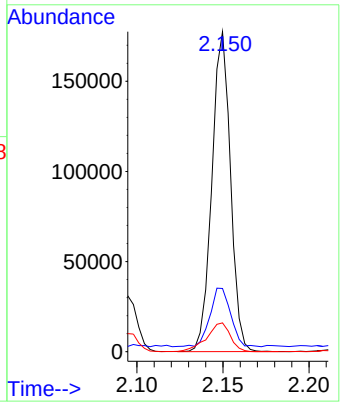




#27
Carbon Disulfide
Concen: 10.687 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 76 Resp: 13310

Ion	Ratio	Lower	Upper
76	100		
44	20.4	16.1	24.1
78	11.5	9.6	14.4



Instrument :
MSVOA_L
ClientSampleId :
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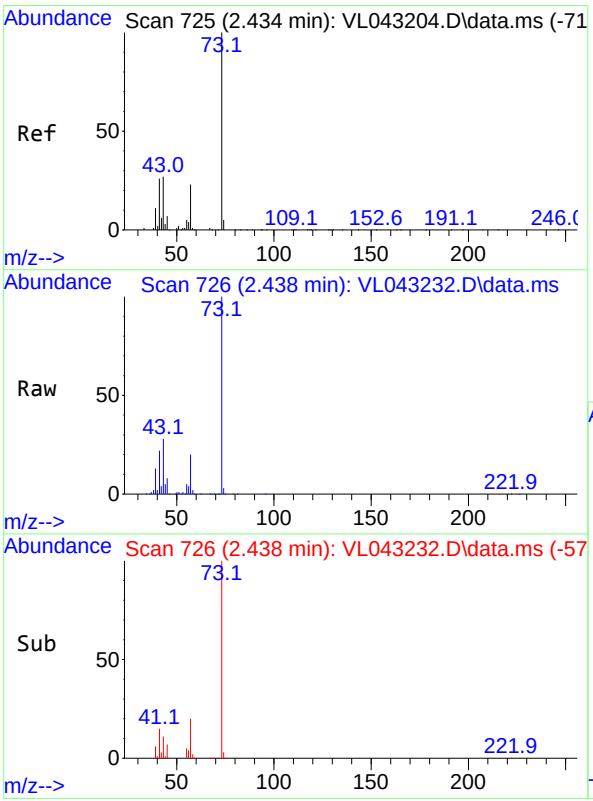
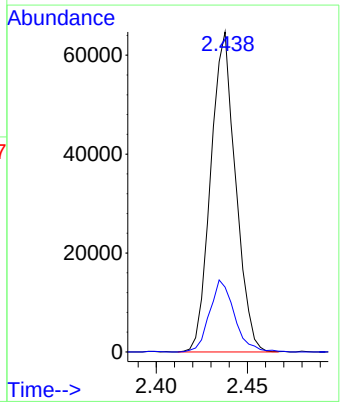
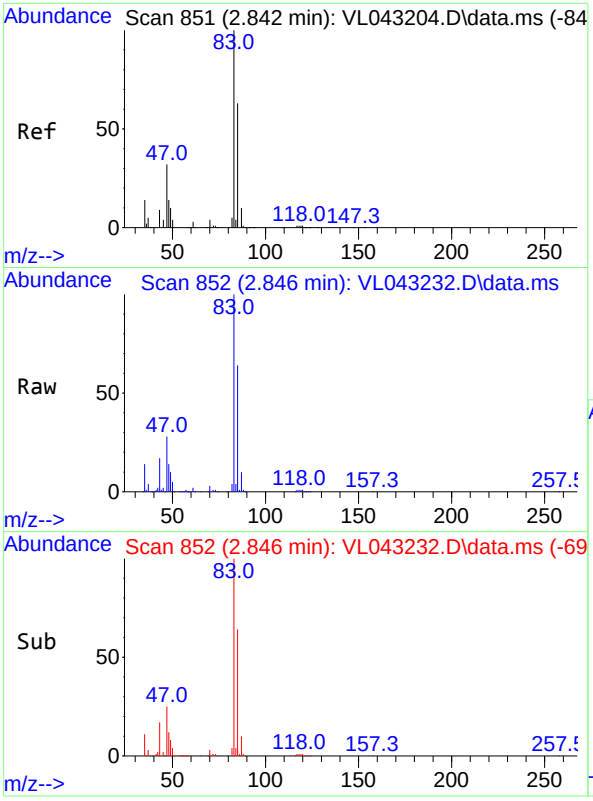


#28
Methyl tert-Butyl Ether
Concen: 10.265 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 73 Resp: 61465

Ion	Ratio	Lower	Upper
73	100		
57	22.6	19.8	29.8

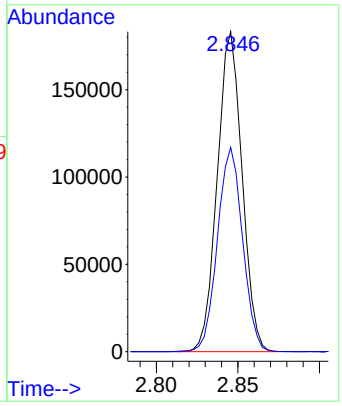




#29
Chloroform
Concen: 11.166 ppbv
RT: 2.846 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 83 Resp: 19362

Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.5	75.7



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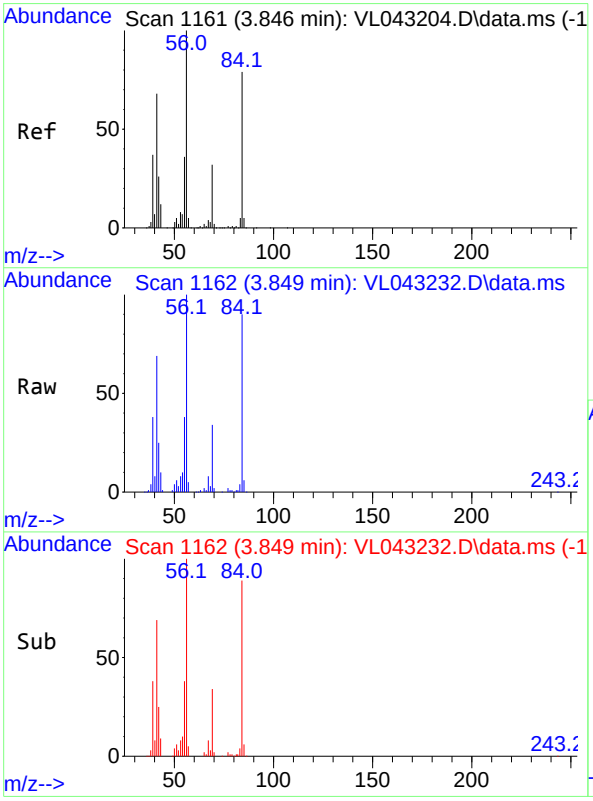
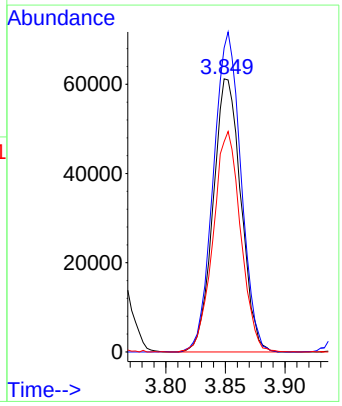
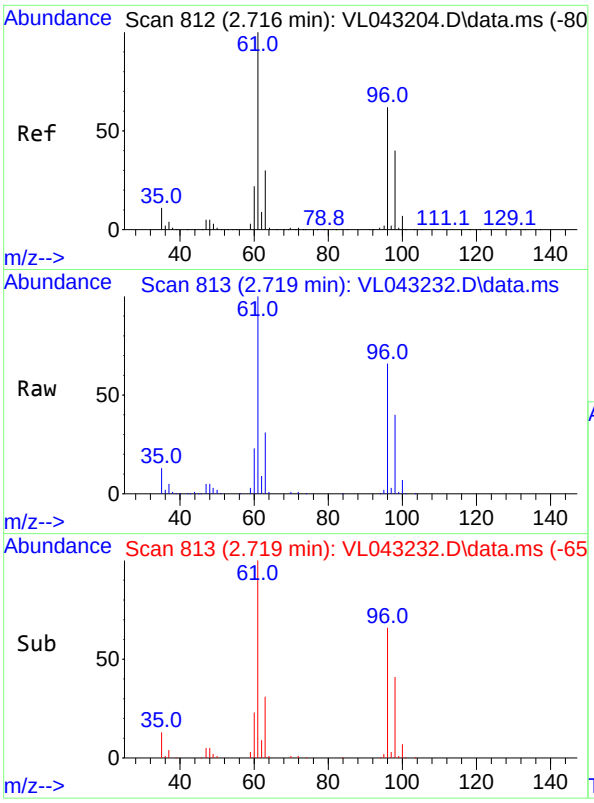


#30
Cyclohexane
Concen: 9.707 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 84 Resp: 99278

Ion	Ratio	Lower	Upper
84	100		
56	116.2	104.7	157.1
41	79.9	69.0	103.6

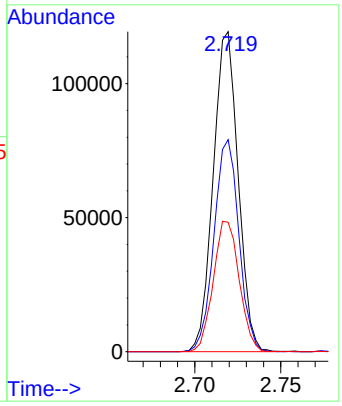




#31
cis-1,2-Dichloroethene
Concen: 9.907 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 61 Resp: 12012

Ion	Ratio	Lower	Upper
61	100		
96	66.2	49.3	73.9
98	40.4	32.1	48.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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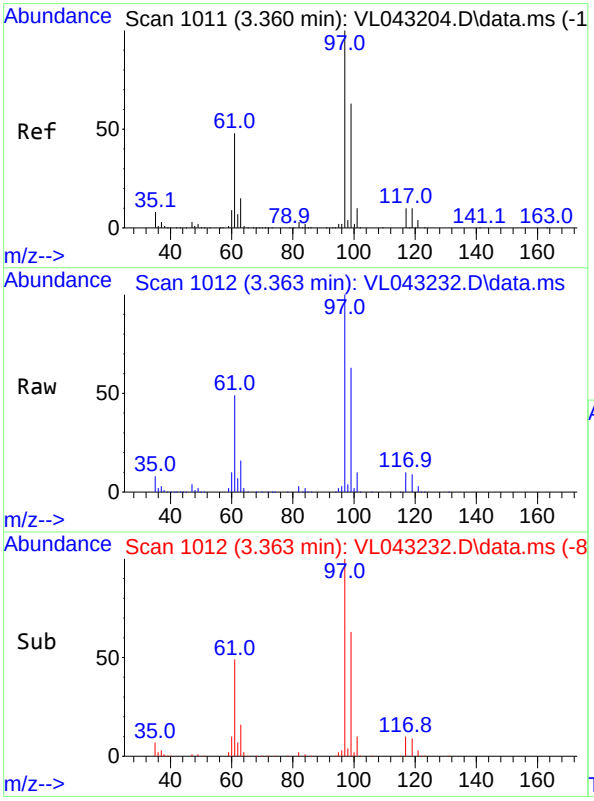
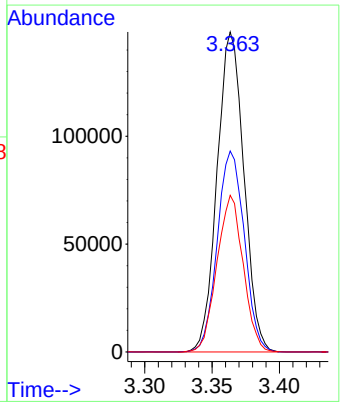
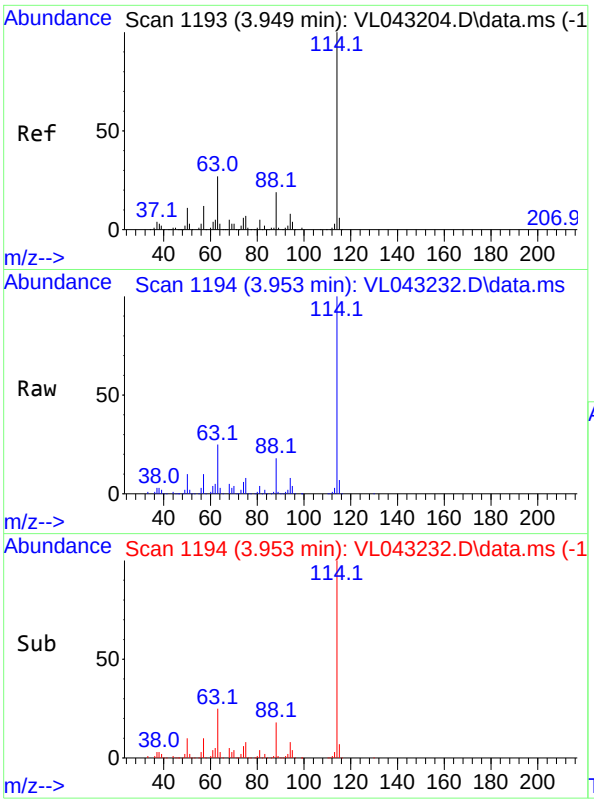


#32
1,1,1-Trichloroethane
Concen: 11.112 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 97 Resp: 205379

Ion	Ratio	Lower	Upper
97	100		
99	63.4	50.3	75.5
61	48.0	38.9	58.3

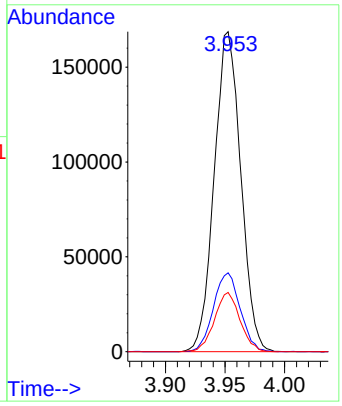




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.953 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:114 Resp: 26106

Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.0	31.6
88	17.8	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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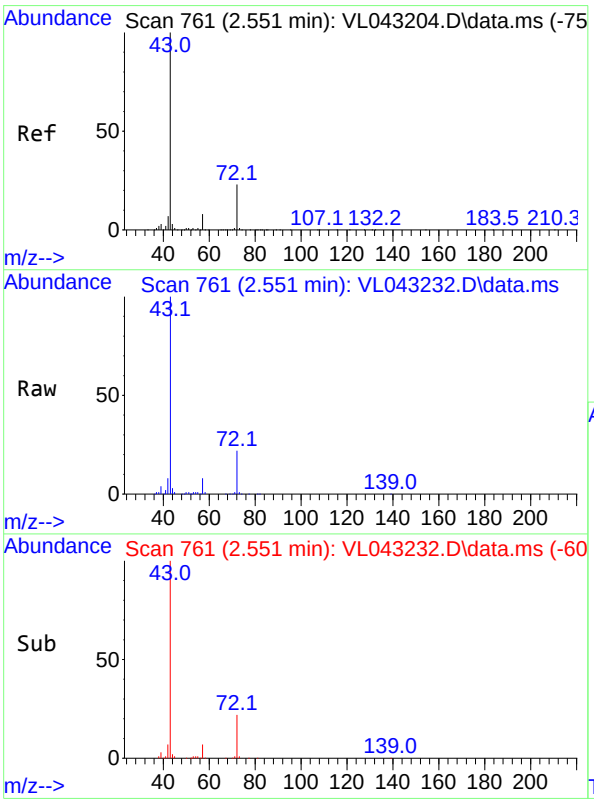
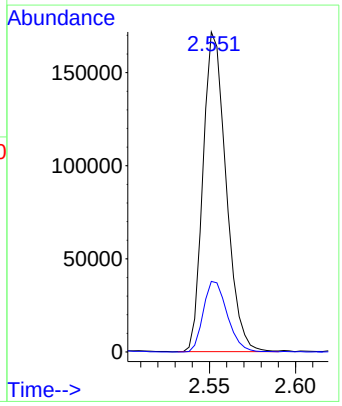
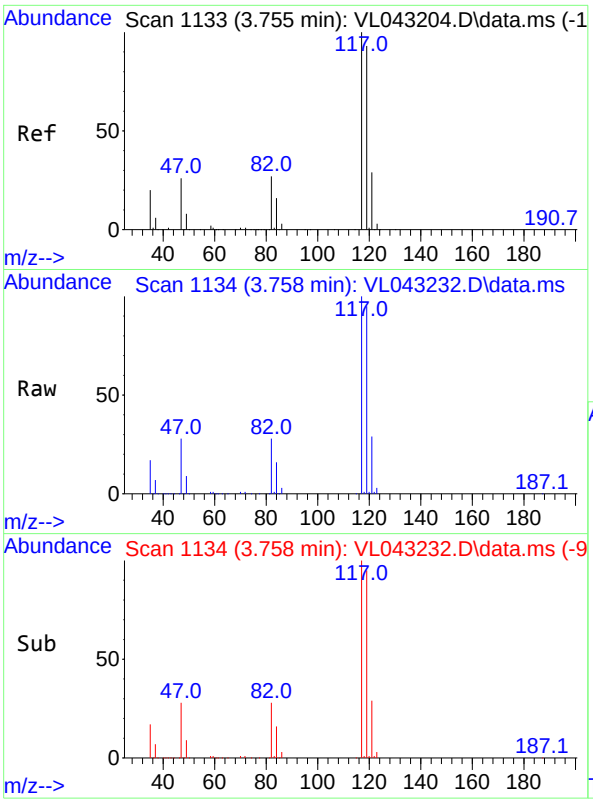


#34
2-Butanone
Concen: 8.659 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 43 Resp: 159571

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.1	27.1

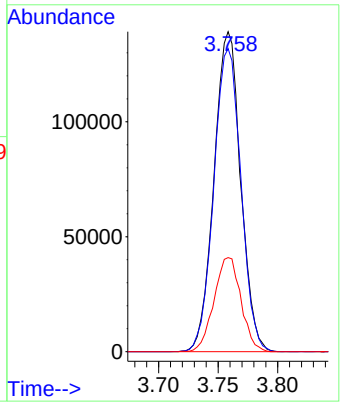




#35
Carbon Tetrachloride
Concen: 10.900 ppbv
RT: 3.758 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:117 Resp: 21598

Ion	Ratio	Lower	Upper
117	100		
119	94.7	74.6	112.0
121	29.4	23.2	34.8



Instrument :
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ClientSampleId :
VSTDCCC010

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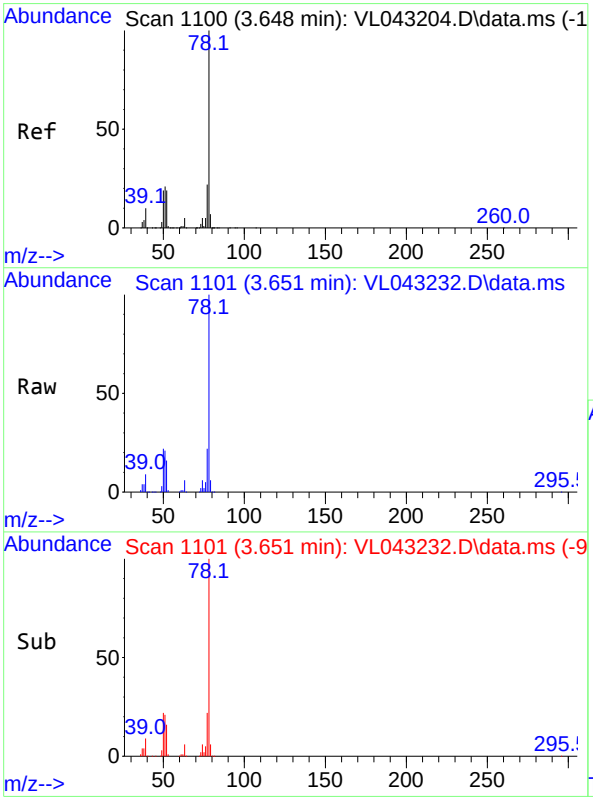
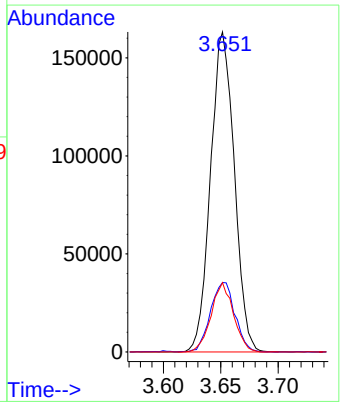
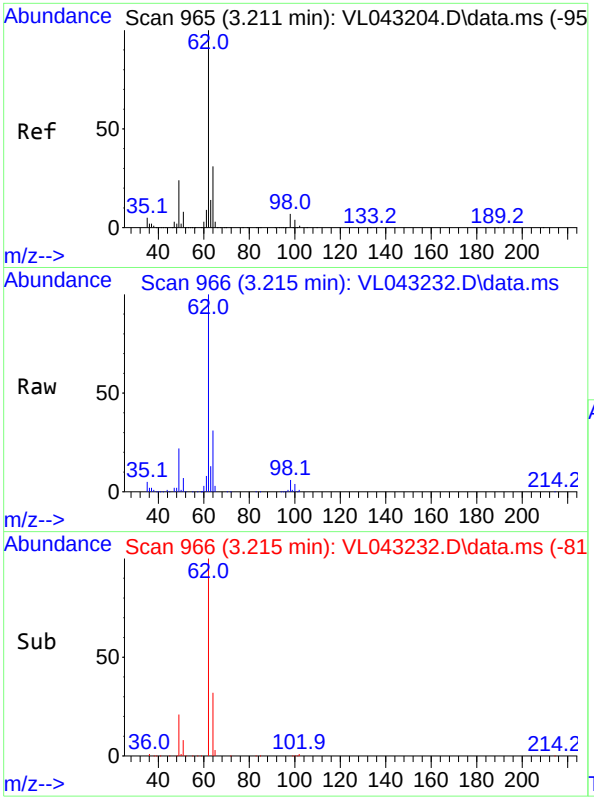


#36
Benzene
Concen: 9.400 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 78 Resp: 235020

Ion	Ratio	Lower	Upper
78	100		
77	21.7	17.5	26.3
50	21.7	15.5	23.3

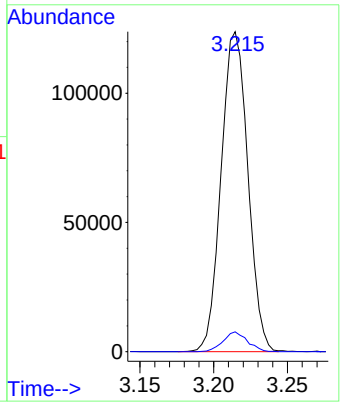




#37
1,2-Dichloroethane
Concen: 10.672 ppbv
RT: 3.215 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 62 Resp: 15607

Ion	Ratio	Lower	Upper
62	100		
98	5.7	5.5	8.3



Instrument :
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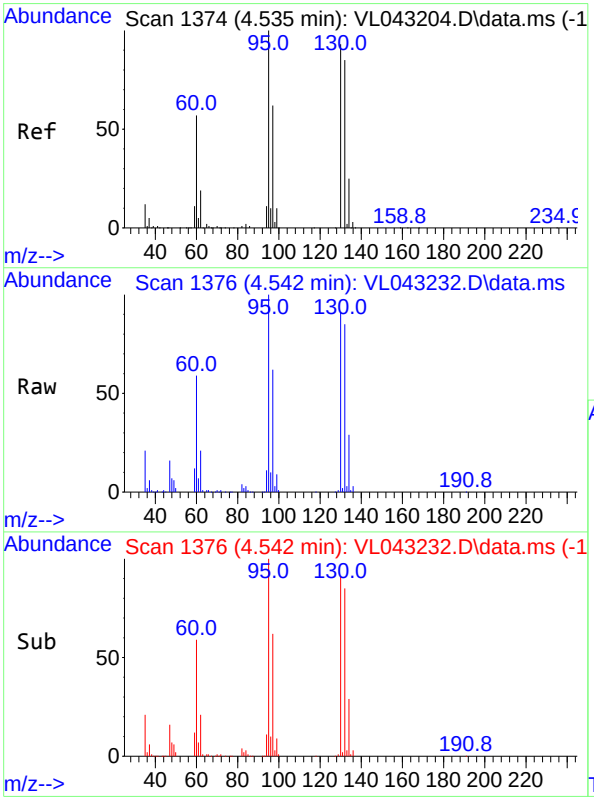
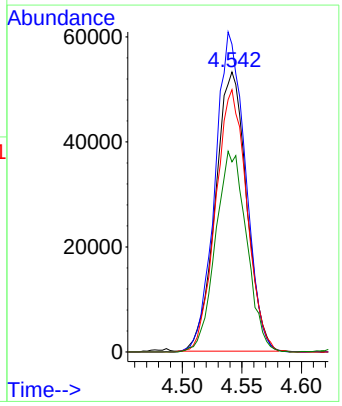
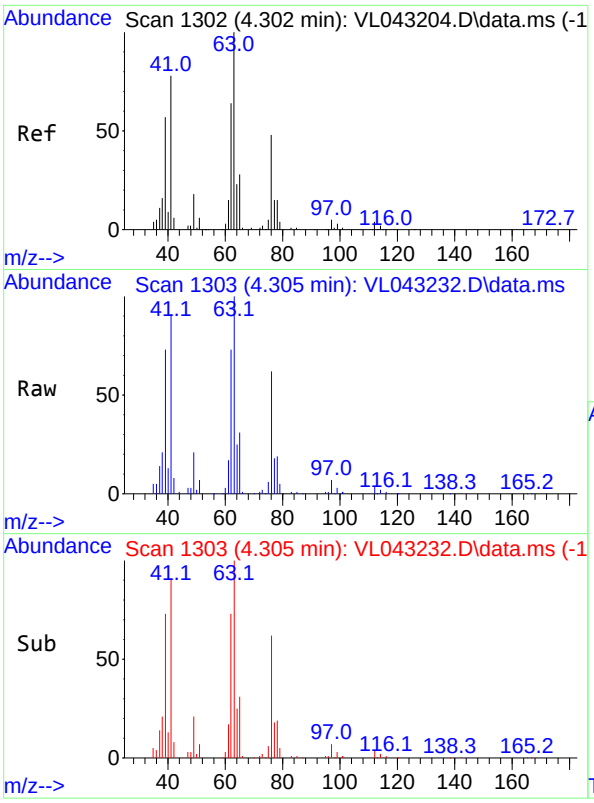


#38
Trichloroethene
Concen: 9.902 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:130 Resp: 96860

Ion	Ratio	Lower	Upper
130	100		
95	110.1	85.7	128.5
132	93.7	73.4	110.0
97	68.1	52.7	79.1

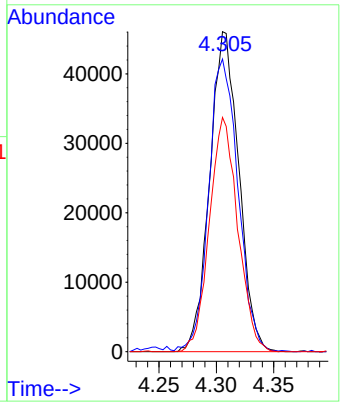




#39
1,2-Dichloropropane
Concen: 8.891 ppbv
RT: 4.305 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 63 Resp: 8135

Ion	Ratio	Lower	Upper
63	100		
41	91.0	62.6	93.8
62	73.2	51.0	76.6



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ClientSampleId :
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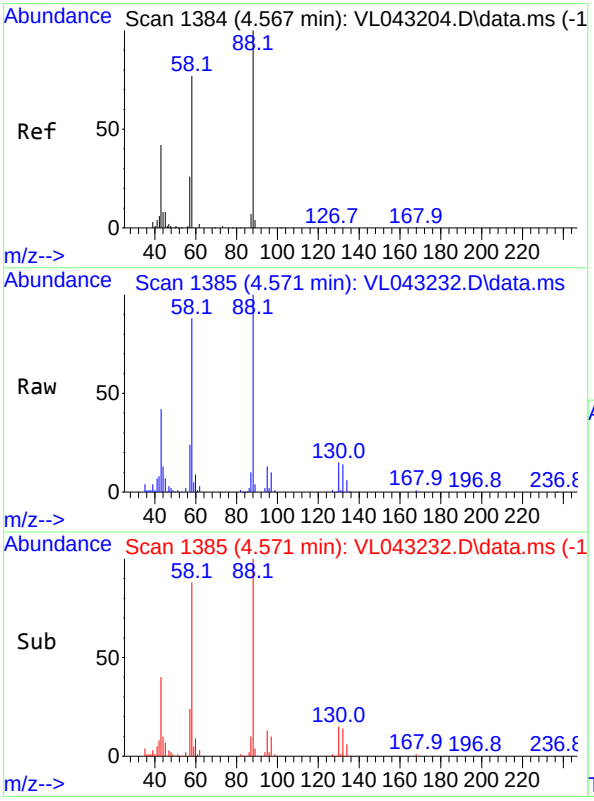
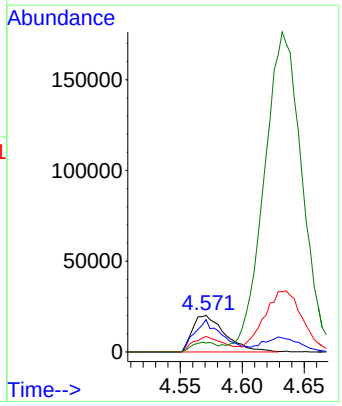
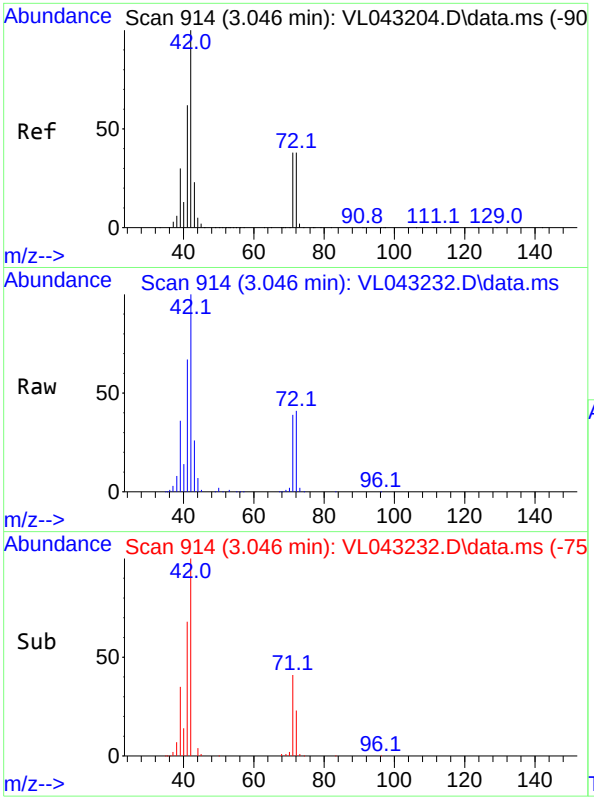


#40
1,4-Dioxane
Concen: 8.983 ppbv
RT: 4.571 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 88 Resp: 36952

Ion	Ratio	Lower	Upper
88	100		
58	76.6	63.0	94.6
43	39.9	32.5	48.7
57	0.0	0.0	0.0

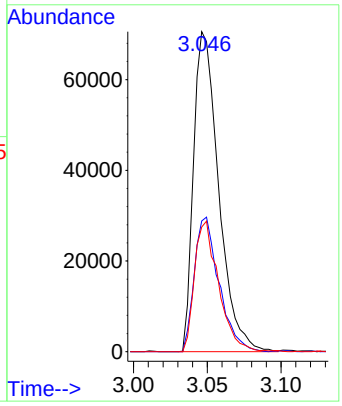




#41
Tetrahydrofuran
Concen: 8.223 ppbv
RT: 3.046 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 42 Resp: 8368

Ion	Ratio	Lower	Upper
42	100		
72	41.6	30.6	46.0
71	39.3	30.5	45.7



Instrument :
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ClientSampleId :
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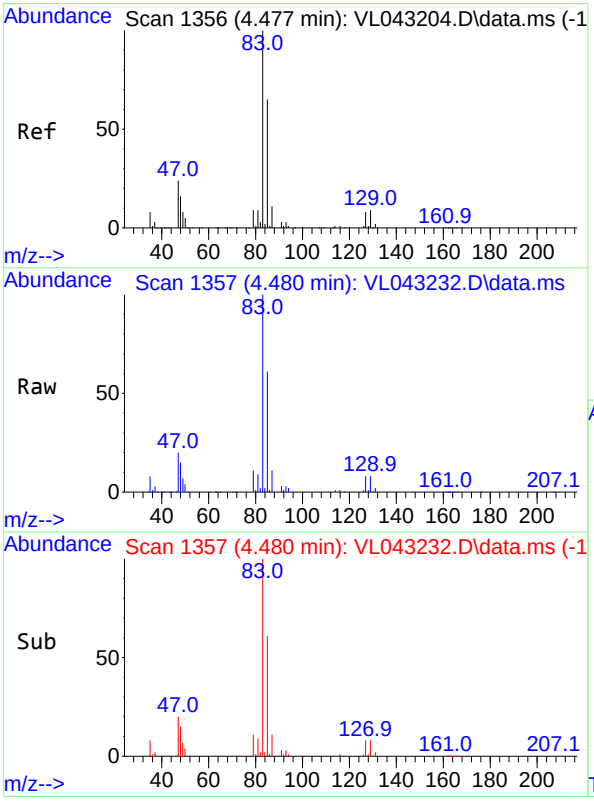
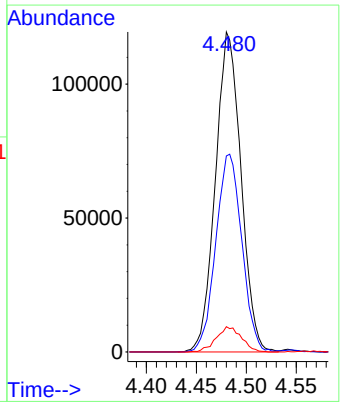
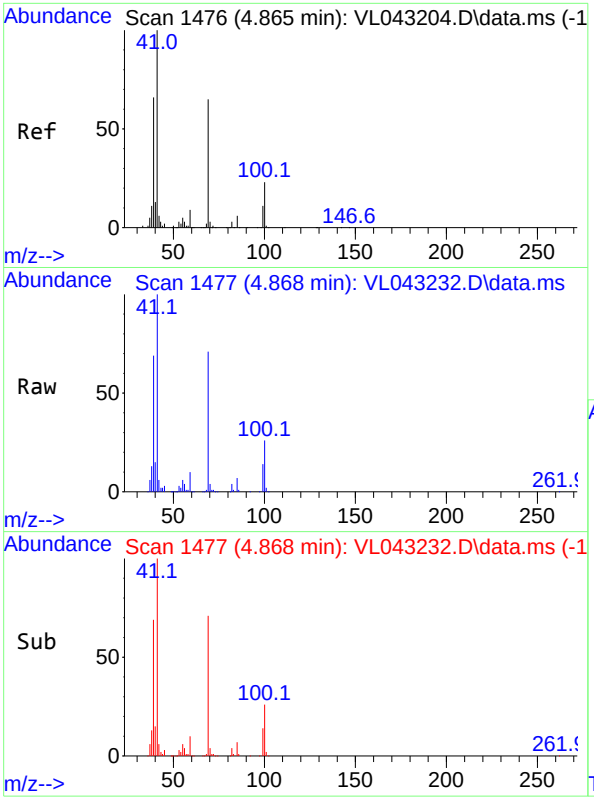


#42
Bromodichloromethane
Concen: 10.549 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 83 Resp: 212816

Ion	Ratio	Lower	Upper
83	100		
85	61.2	51.7	77.5
127	7.9	6.3	9.5

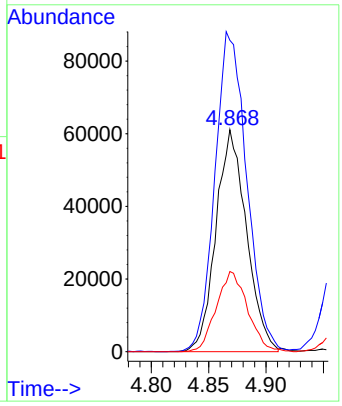




#43
Methyl Methacrylate
Concen: 8.514 ppbv
RT: 4.868 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 69 Resp: 11298

Ion	Ratio	Lower	Upper
69	100		
41	150.6	126.7	190.1
100	37.0	28.6	43.0



Instrument :
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ClientSampleId :
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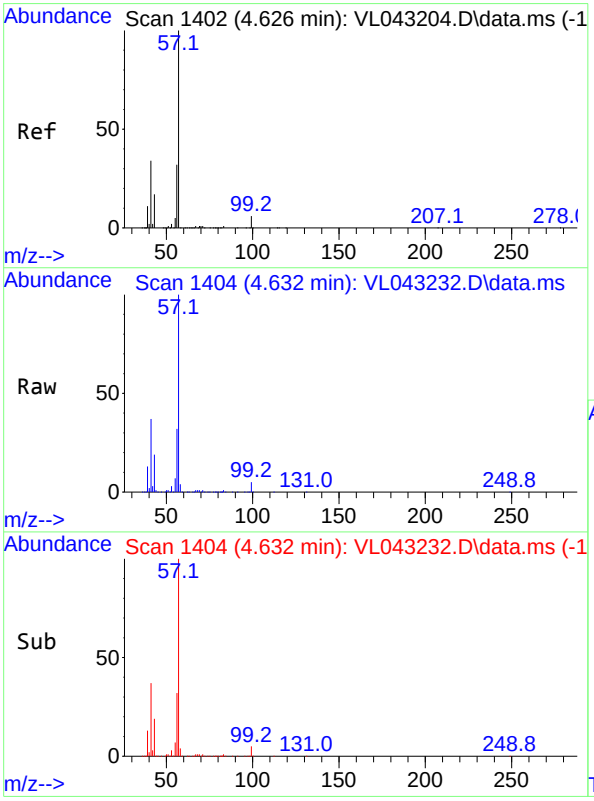
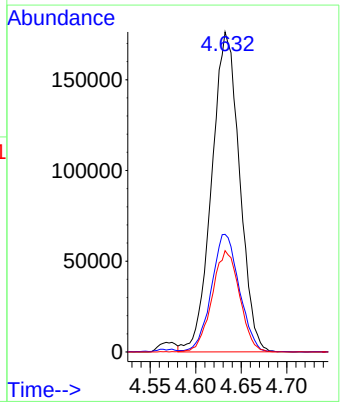
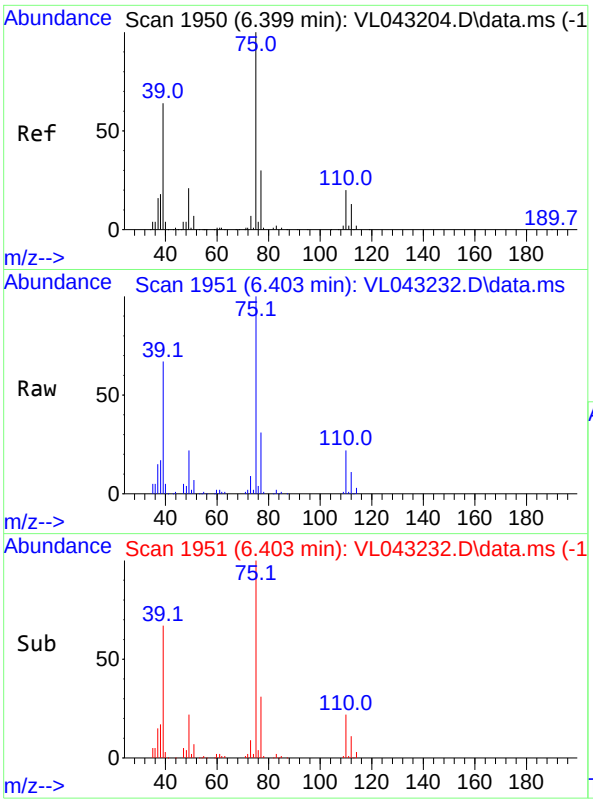


#44
2,2,4-Trimethylpentane
Concen: 8.730 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 57 Resp: 374848

Ion	Ratio	Lower	Upper
57	100		
41	37.7	28.0	42.0
56	31.3	25.6	38.4

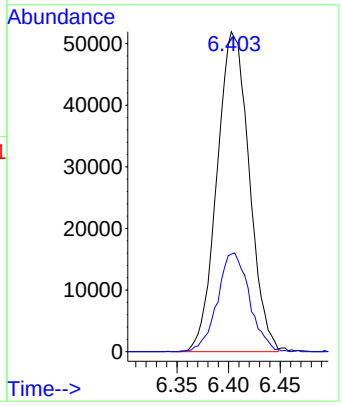




#45
t-1,3-Dichloropropene
Concen: 9.111 ppbv
RT: 6.403 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 75 Resp: 11270

Ion	Ratio	Lower	Upper
75	100		
77	30.5	24.3	36.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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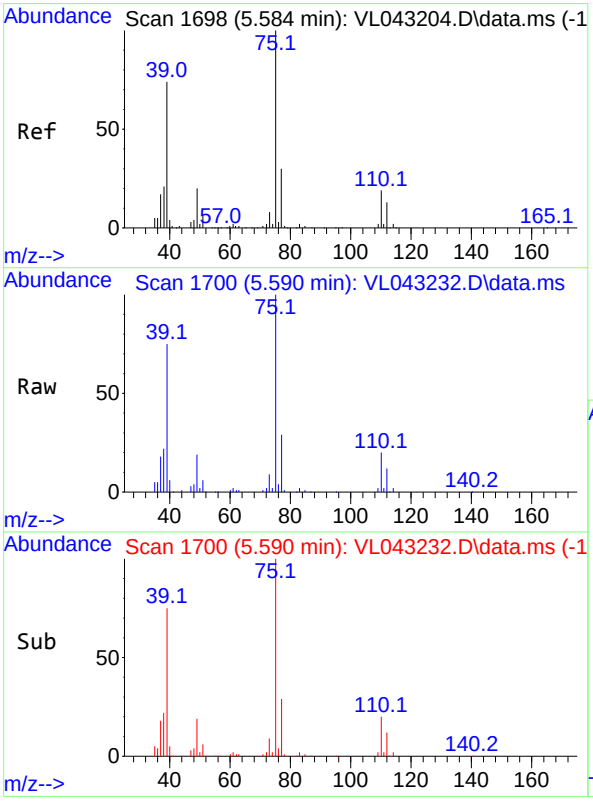
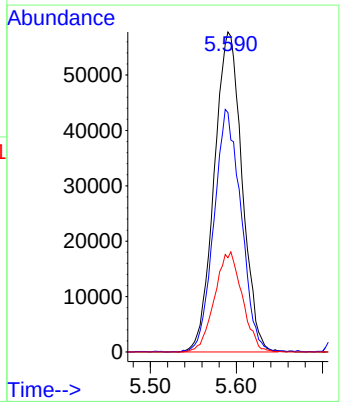
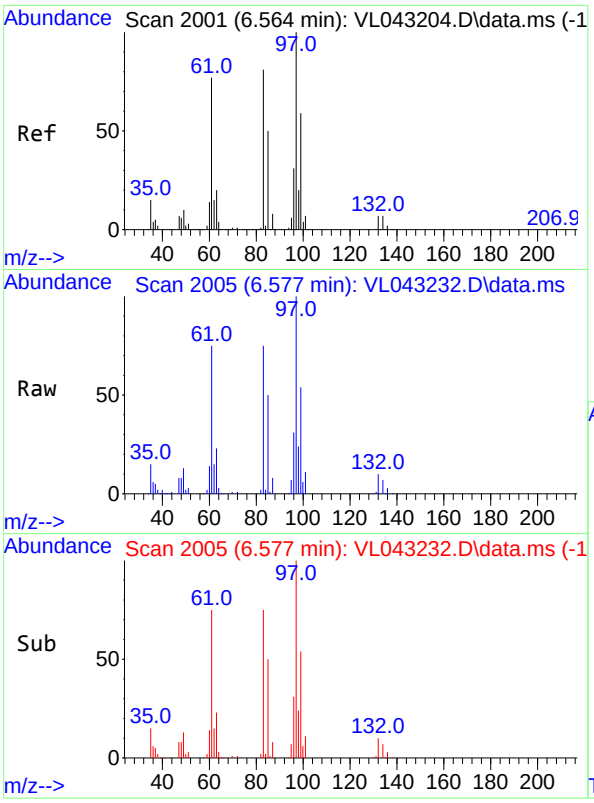


#46
cis-1,3-Dichloropropene
Concen: 8.947 ppbv
RT: 5.590 min Scan# 1700
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 75 Resp: 129954

Ion	Ratio	Lower	Upper
75	100		
39	74.8	59.1	88.7
77	29.4	24.2	36.2

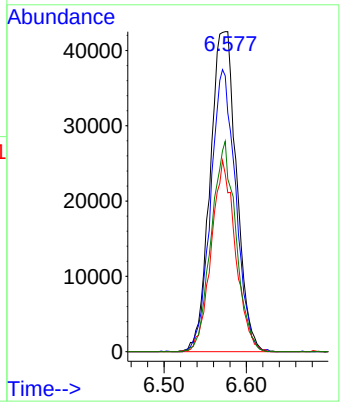




#47
1,1,2-Trichloroethane
Concen: 9.736 ppbv m
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 97 Resp: 9454

Ion	Ratio	Lower	Upper
97	100		
83	74.6	64.6	97.0
85	49.6	39.4	59.2
99	53.9	47.0	70.6



Instrument :
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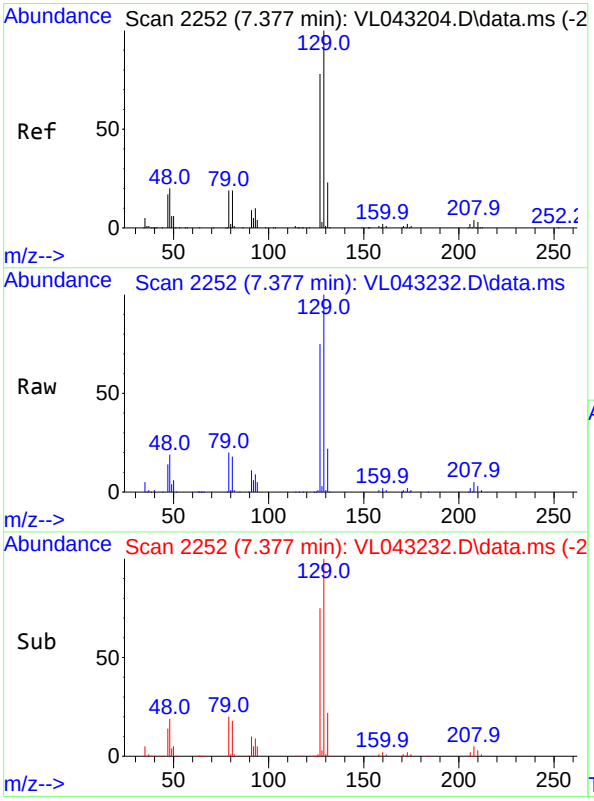
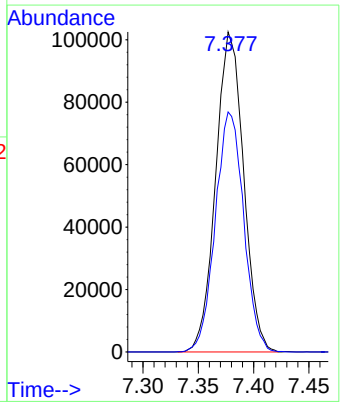
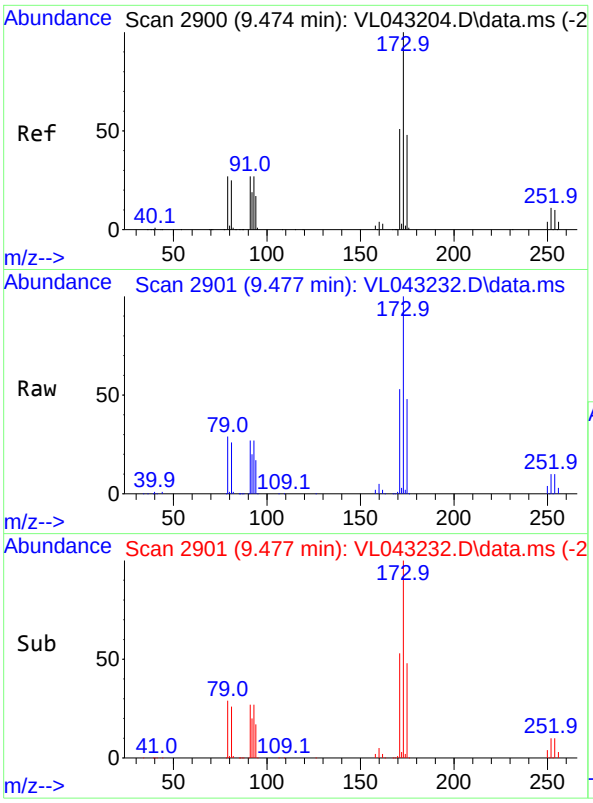


#48
Dibromochloromethane
Concen: 10.778 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:129 Resp: 179951

Ion	Ratio	Lower	Upper
129	100		
127	76.2	39.3	117.9

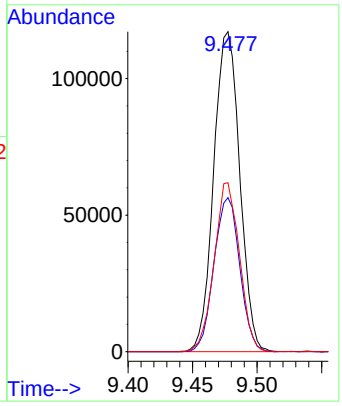




#49
Bromoform
Concen: 11.110 ppbv
RT: 9.477 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:173 Resp: 16430

Ion	Ratio	Lower	Upper
173	100		
175	47.8	38.6	58.0
171	51.2	40.6	61.0



Instrument :
MSVOA_L
ClientSampleId :
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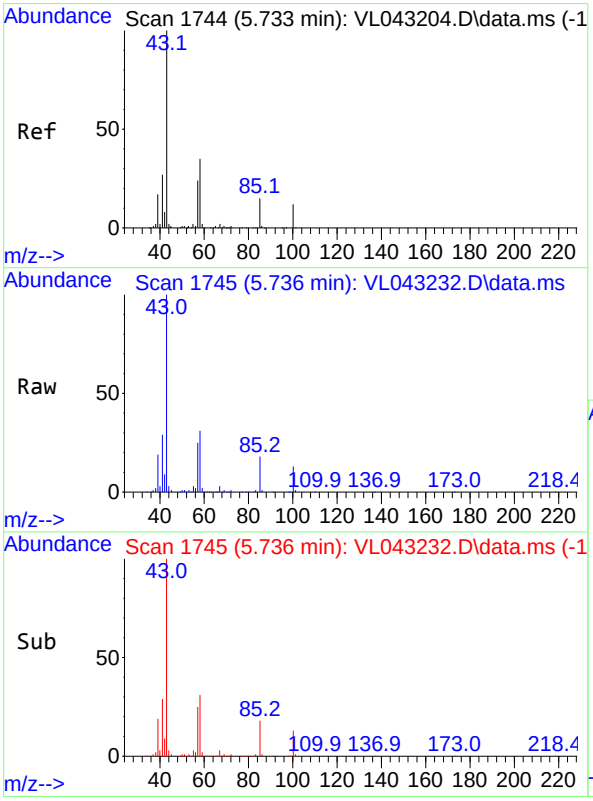
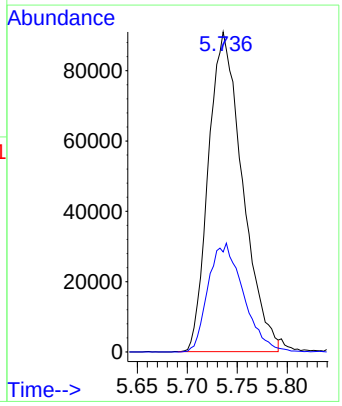
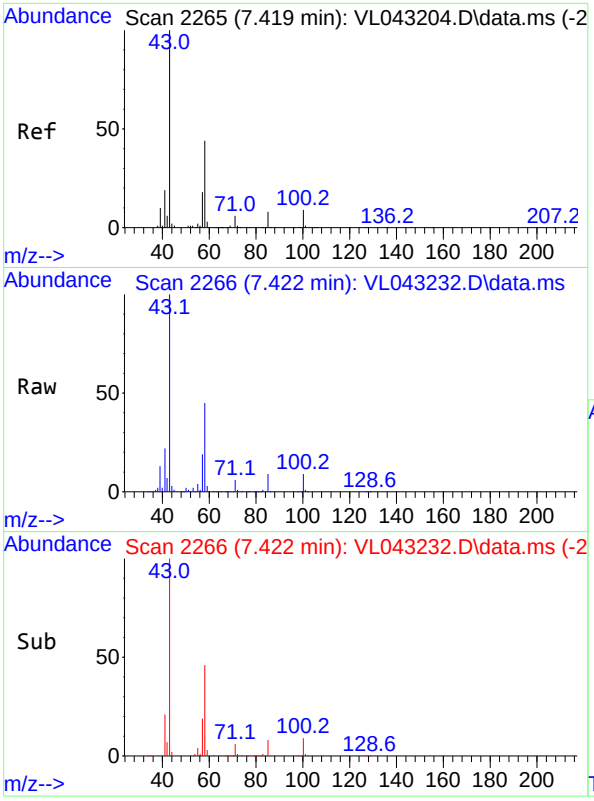


#50
4-Methyl-2-Pentanone
Concen: 8.290 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 43 Resp: 215210

Ion	Ratio	Lower	Upper
43	100		
58	35.3	28.4	42.6

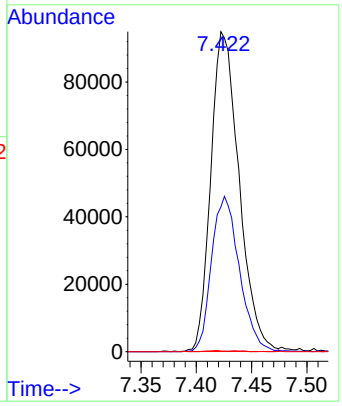




#51
2-Hexanone
Concen: 8.339 ppbv
RT: 7.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 43 Resp: 16810

Ion	Ratio	Lower	Upper
43	100		
58	48.2	38.4	57.6
98	0.4	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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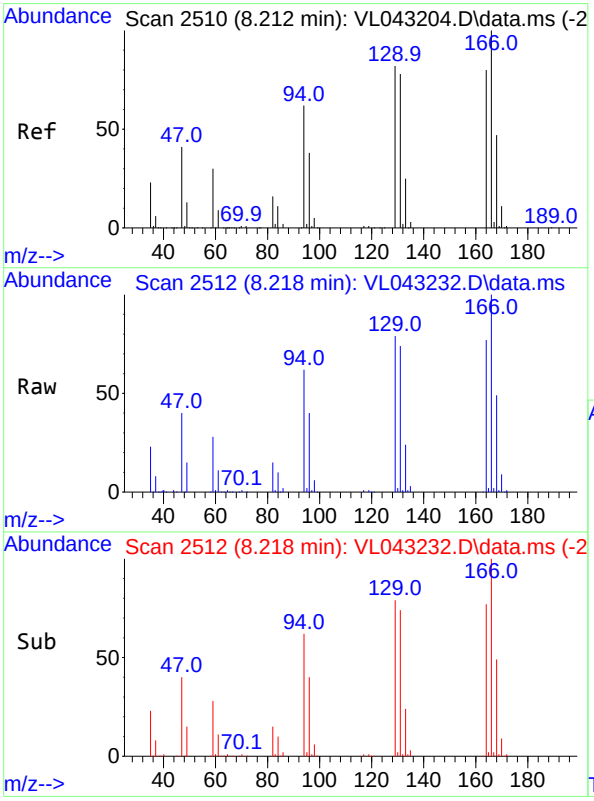
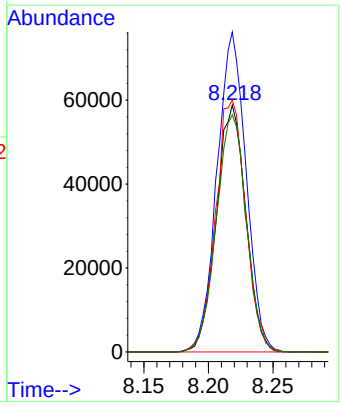
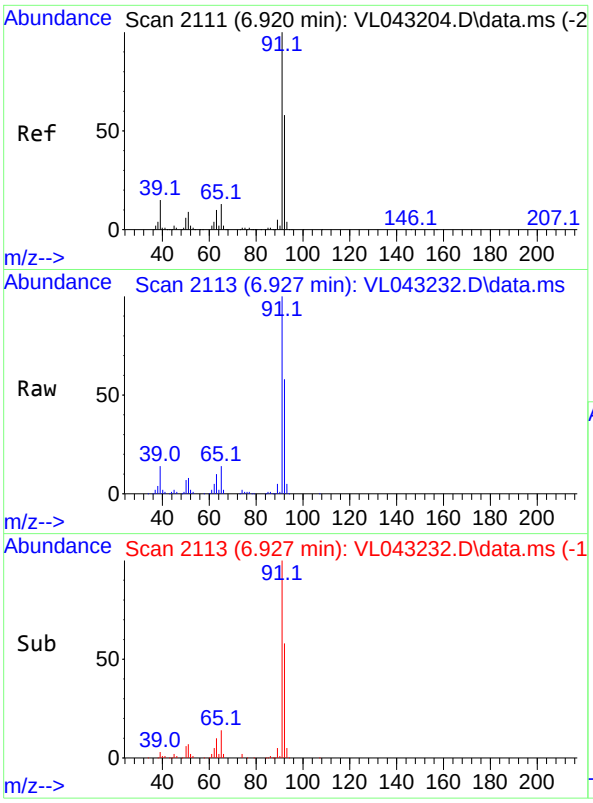


#52
Tetrachloroethene
Concen: 10.048 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:164 Resp: 93448

Ion	Ratio	Lower	Upper
164	100		
166	129.5	99.4	149.2
129	102.2	81.8	122.8
131	96.1	77.4	116.2

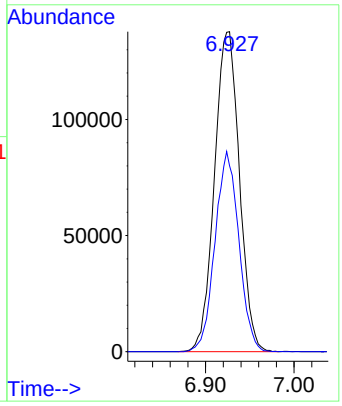




#53
Toluene
Concen: 9.125 ppbv
RT: 6.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 91 Resp: 27013

Ion	Ratio	Lower	Upper
91	100		
92	59.7	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
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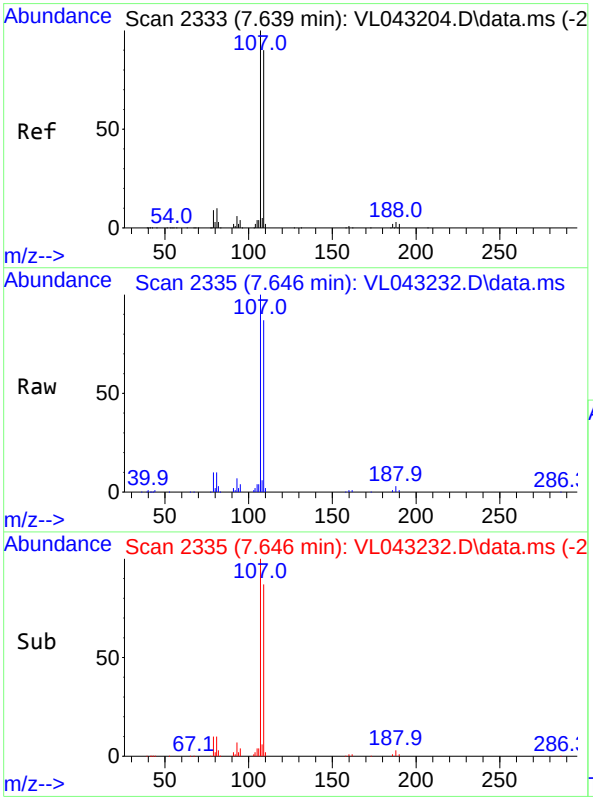
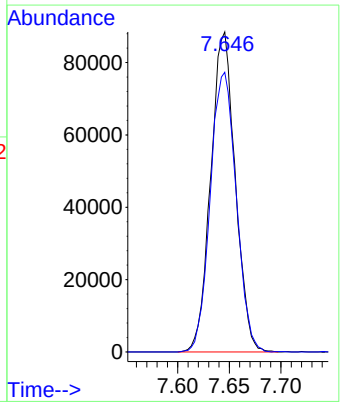
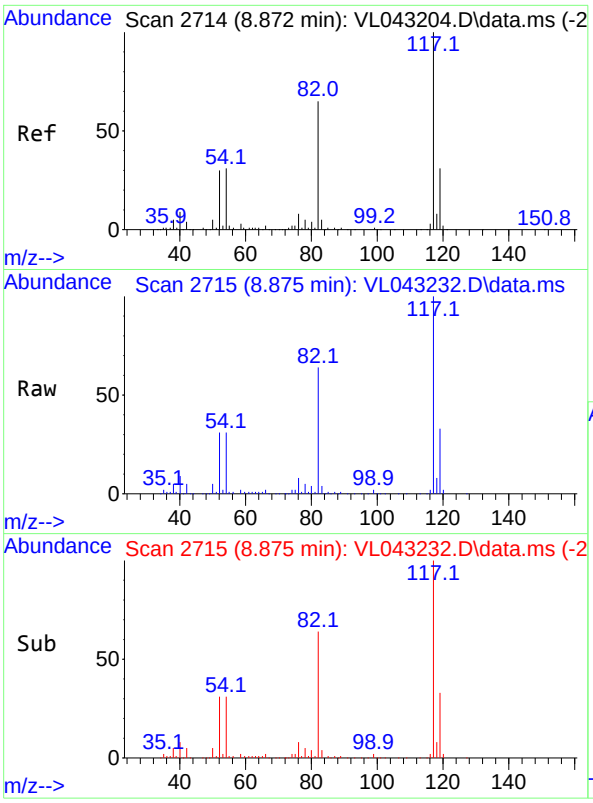


#54
1,2-Dibromoethane
Concen: 10.221 ppbv
RT: 7.646 min Scan# 2335
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:107 Resp: 146059

Ion	Ratio	Lower	Upper
107	100		
109	87.4	72.1	108.1

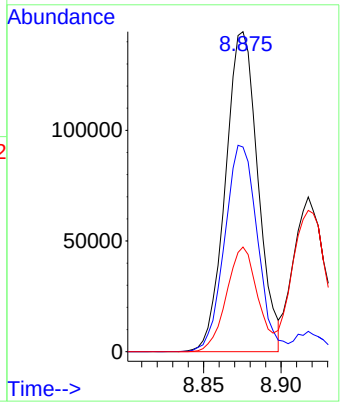




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:117 Resp: 21084

Ion	Ratio	Lower	Upper
117	100		
82	70.5	56.1	84.1
119	31.3	25.0	37.6



Instrument :
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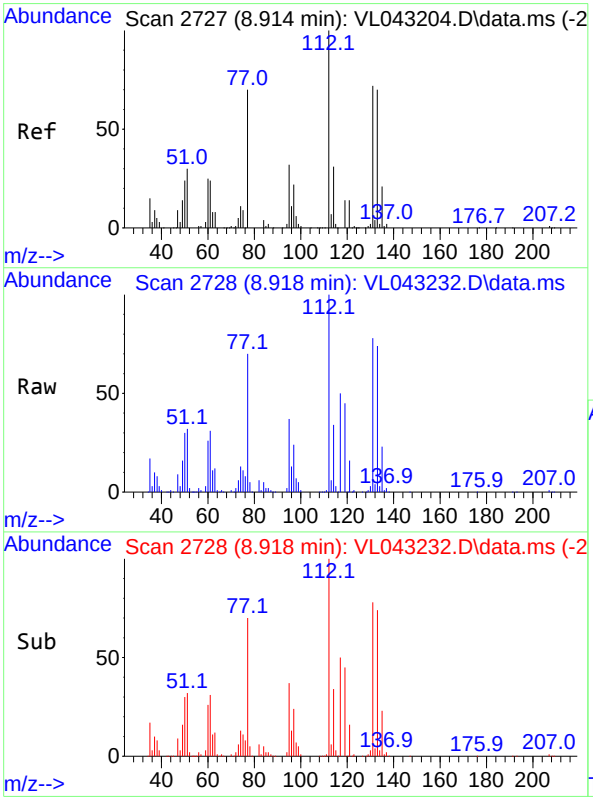
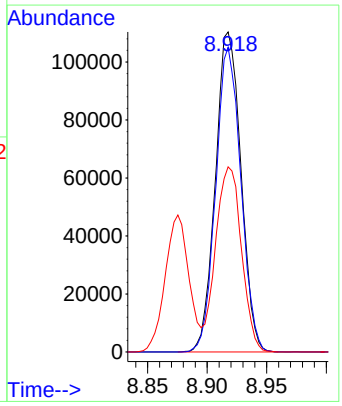
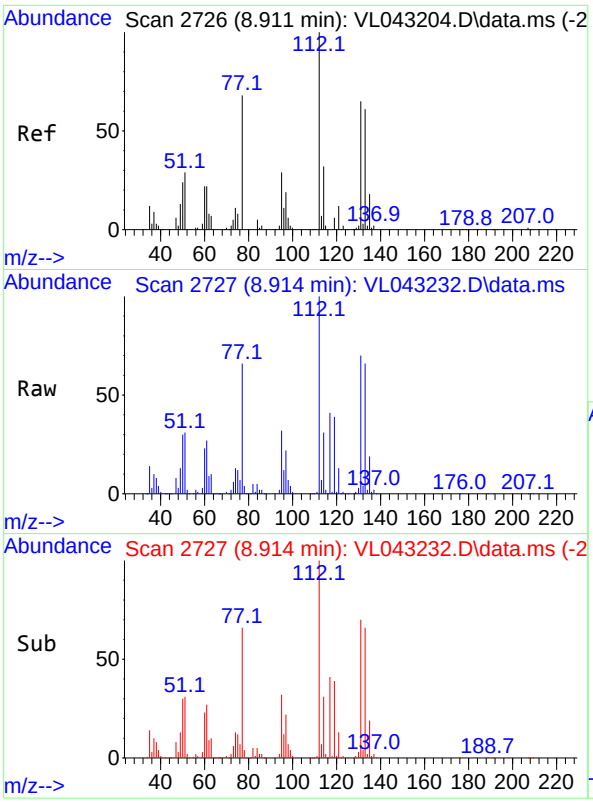


#56
1,1,1,2-Tetrachloroethane
Concen: 10.618 ppbv
RT: 8.918 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:131 Resp: 164526

Ion	Ratio	Lower	Upper
131	100		
133	93.6	77.4	116.2
119	59.6	49.1	73.7

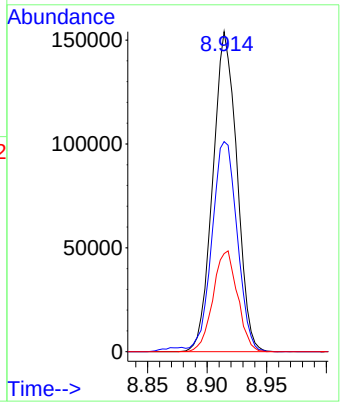




#57
Chlorobenzene
Concen: 9.993 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:112 Resp: 21632

Ion	Ratio	Lower	Upper
112	100		
77	65.6	55.5	83.3
114	30.7	29.1	35.5



Instrument :
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ClientSampleId :
VSTDCCC010

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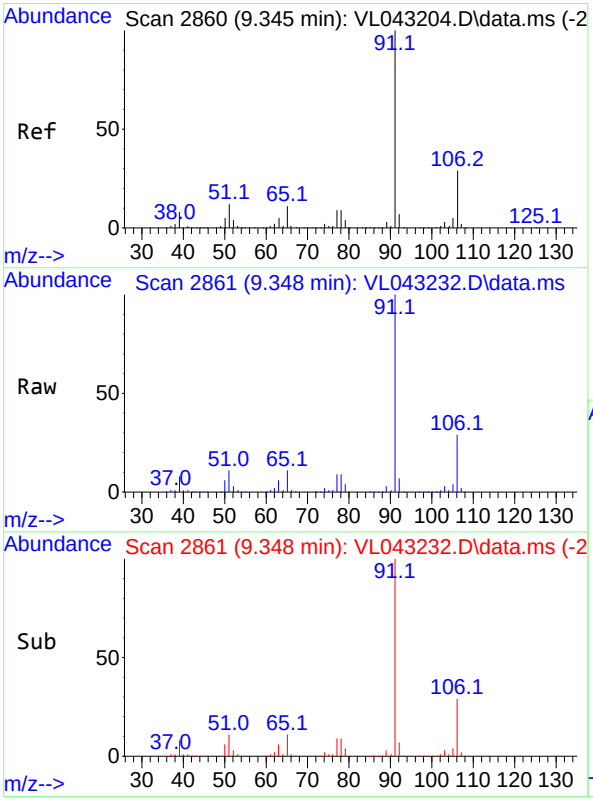
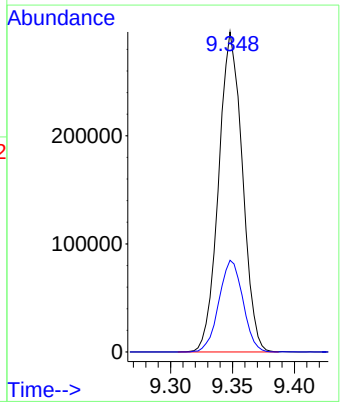
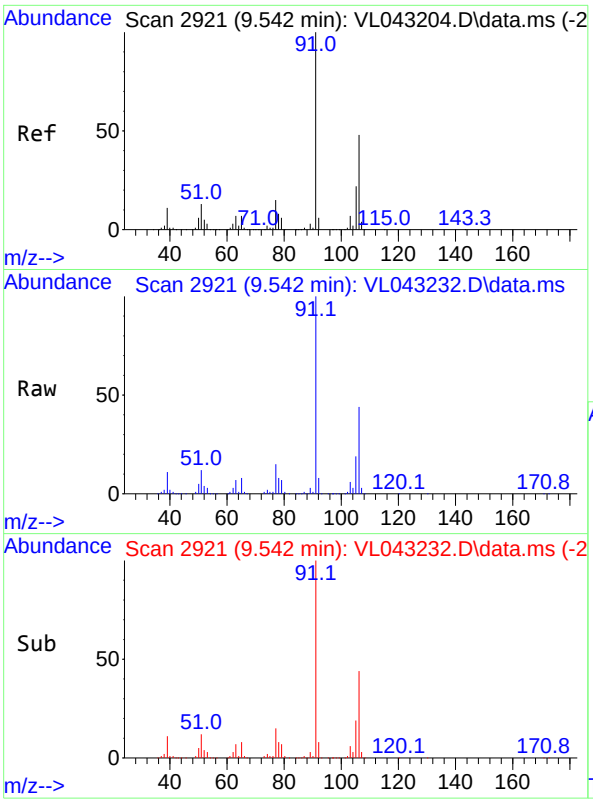


#58
Ethyl Benzene
Concen: 9.726 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 91 Resp: 394701

Ion	Ratio	Lower	Upper
91	100		
106	28.6	22.8	34.2





#59
m/p-Xylene
Concen: 19.905 ppbv m
RT: 9.542 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 91 Resp: 64761

Ion	Ratio	Lower	Upper
91	100		
106	44.4	36.1	54.1

Instrument :
MSVOA_L
ClientSampleId :
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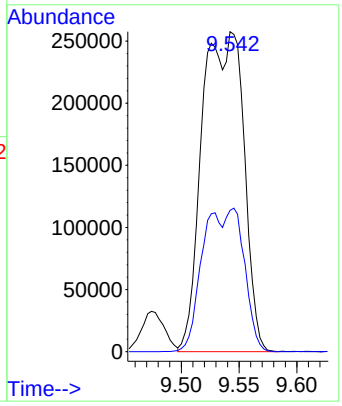
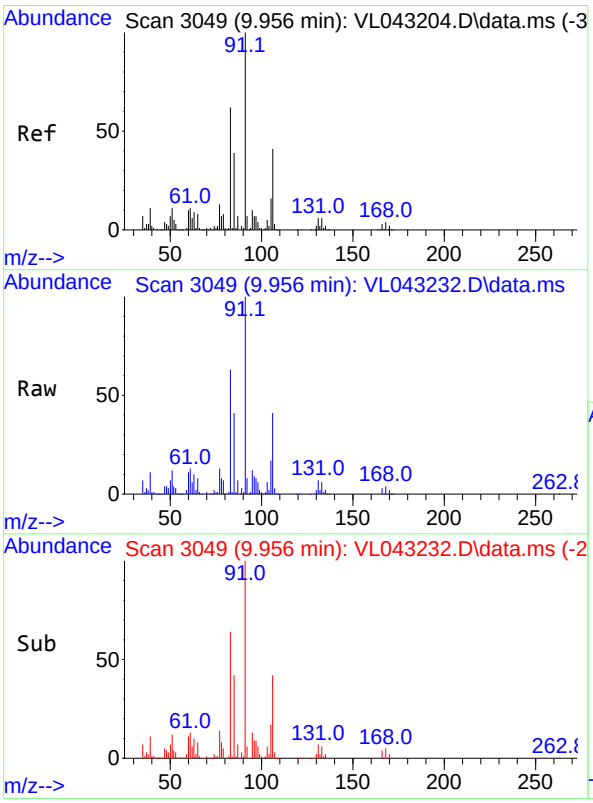
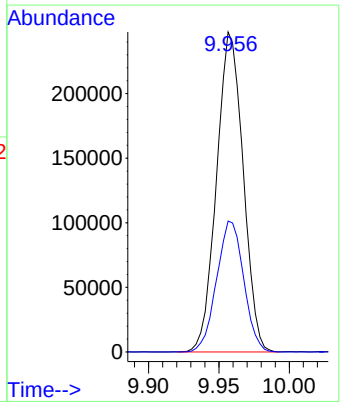


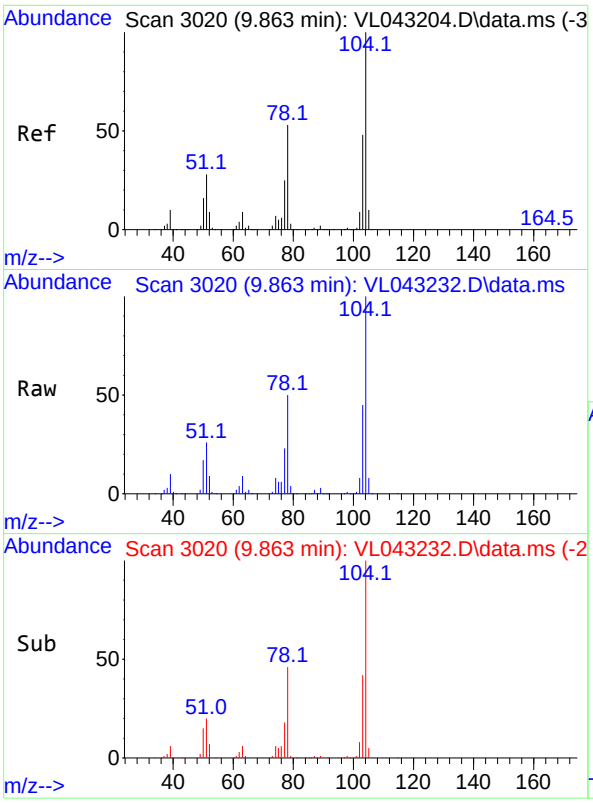


#60
o-Xylene
Concen: 10.030 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 91 Resp: 326016

Ion	Ratio	Lower	Upper
91	100		
106	41.6	20.9	62.8

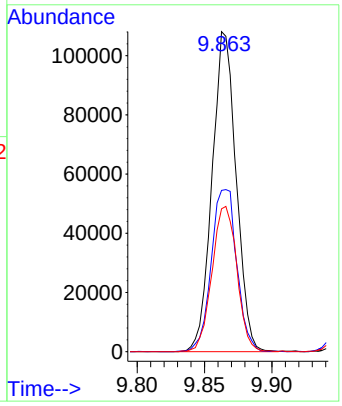




#61
Styrene
Concen: 9.444 ppbv
RT: 9.863 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:104 Resp: 13433

Ion	Ratio	Lower	Upper
104	100		
78	54.0	42.1	63.1
103	47.1	37.2	55.8



Instrument :
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ClientSampleId :
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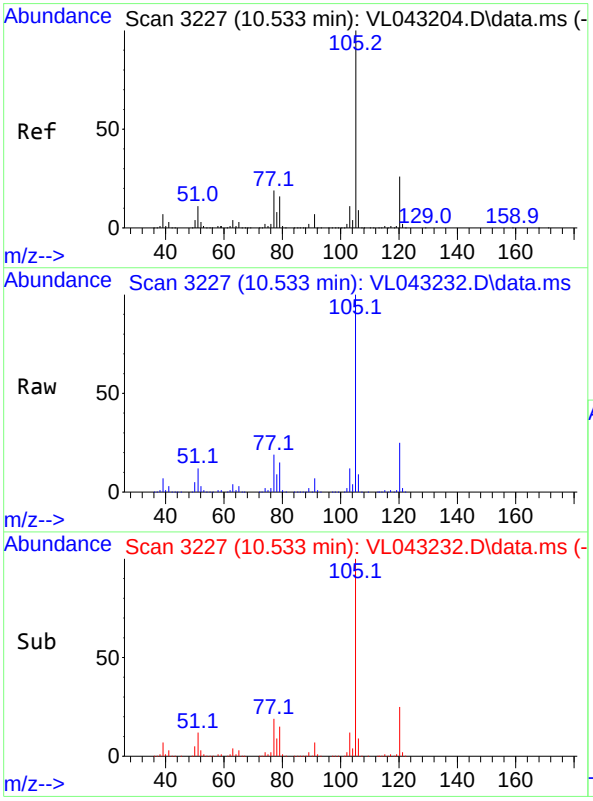
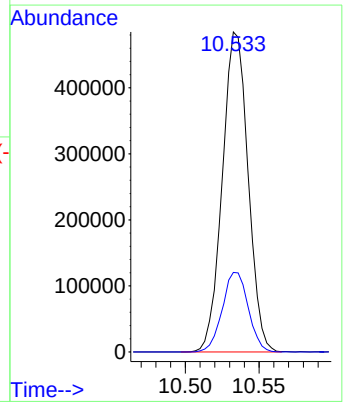
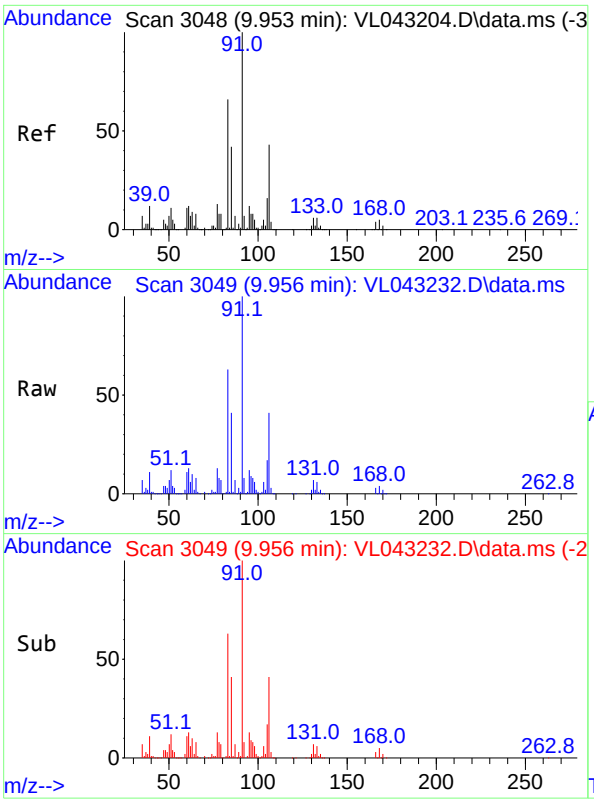


#62
Isopropylbenzene
Concen: 10.120 ppbv
RT: 10.533 min Scan# 3227
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:105 Resp: 588476

Ion	Ratio	Lower	Upper
105	100		
120	25.1	19.8	29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 9.693 ppbv
RT: 9.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 83 Resp: 20046

Ion	Ratio	Lower	Upper
83	100		
131	10.2	4.8	14.3
85	64.7	31.9	95.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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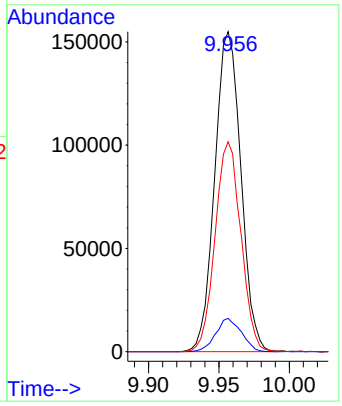
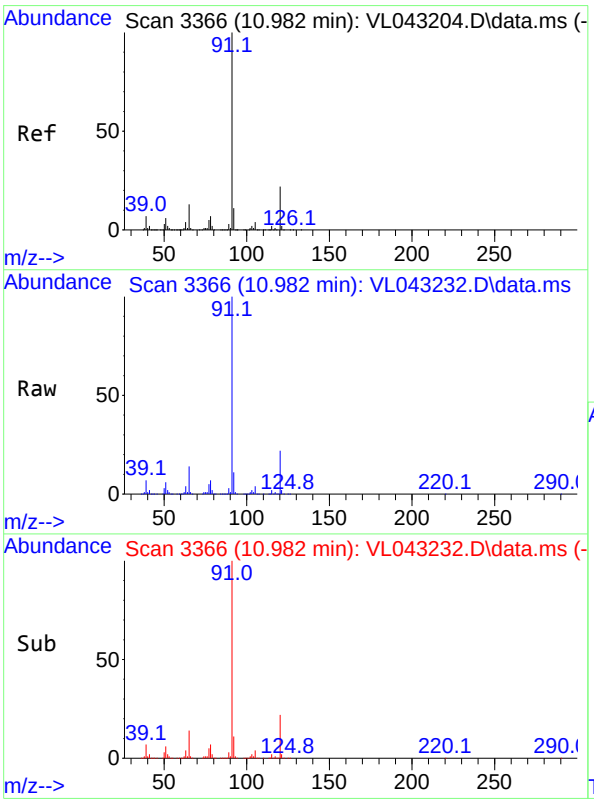
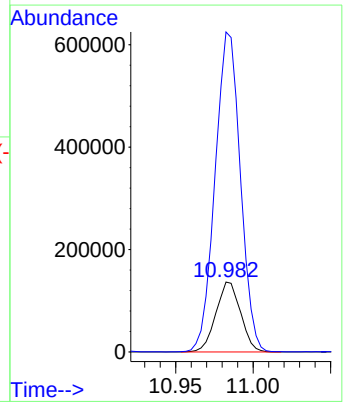


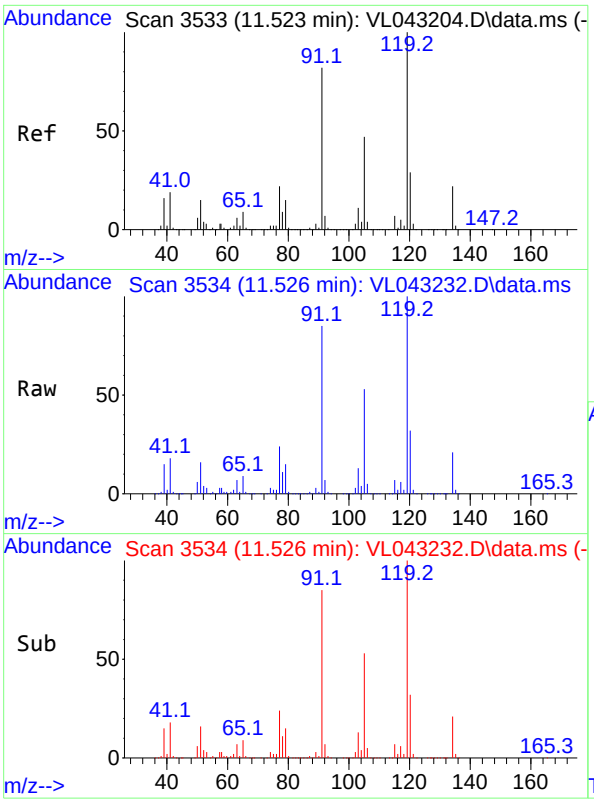


#64
n-propylbenzene
Concen: 10.126 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:120 Resp: 151292

Ion	Ratio	Lower	Upper
120	100		
91	469.0	377.1	565.7

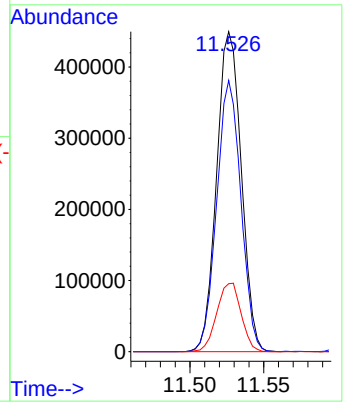




#65
tert-Butylbenzene
Concen: 10.080 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:119 Resp: 52348

Ion	Ratio	Lower	Upper
119	100		
91	83.2	65.3	97.9
134	21.2	17.0	25.4



Instrument :
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ClientSampleId :
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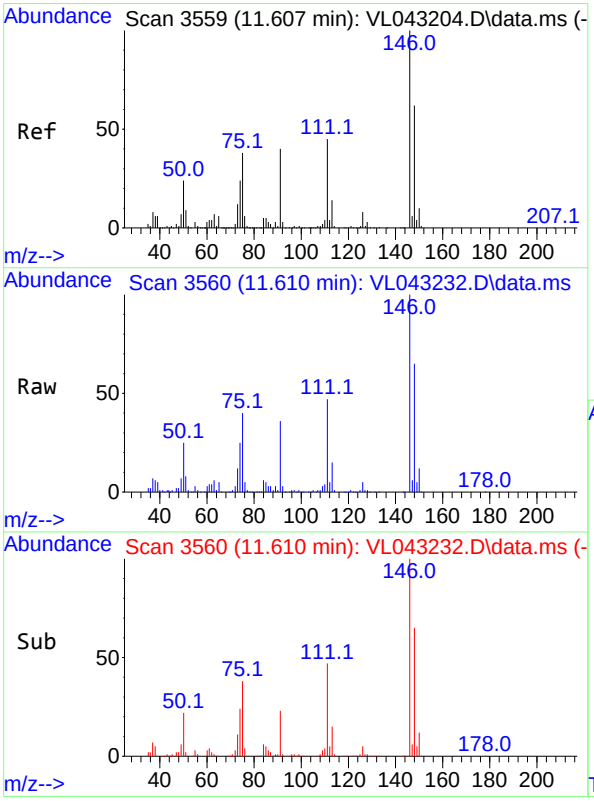
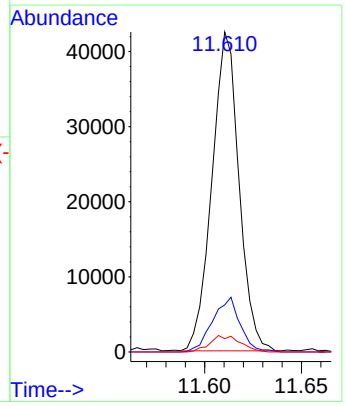
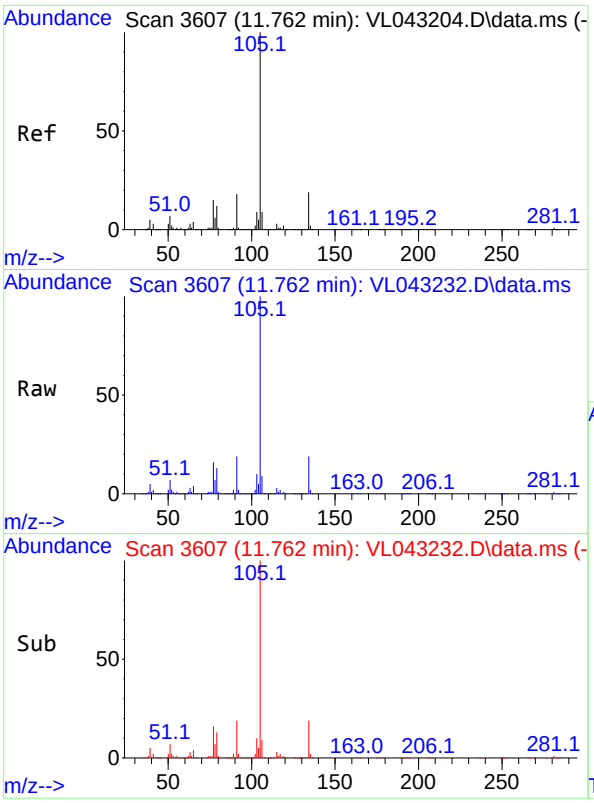


#66
Benzyl Chloride
Concen: 7.820 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 91 Resp: 41211

Ion	Ratio	Lower	Upper
91	100		
126	17.4	14.4	21.6
128	5.8	4.6	6.8

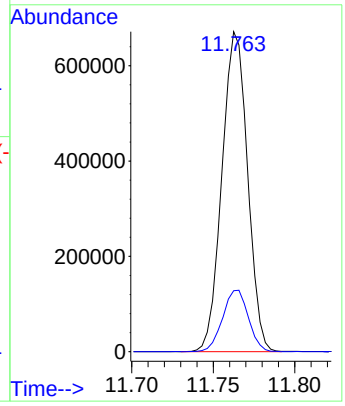




#67
sec-Butylbenzene
Concen: 10.123 ppbv
RT: 11.762 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:105 Resp: 73379

Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
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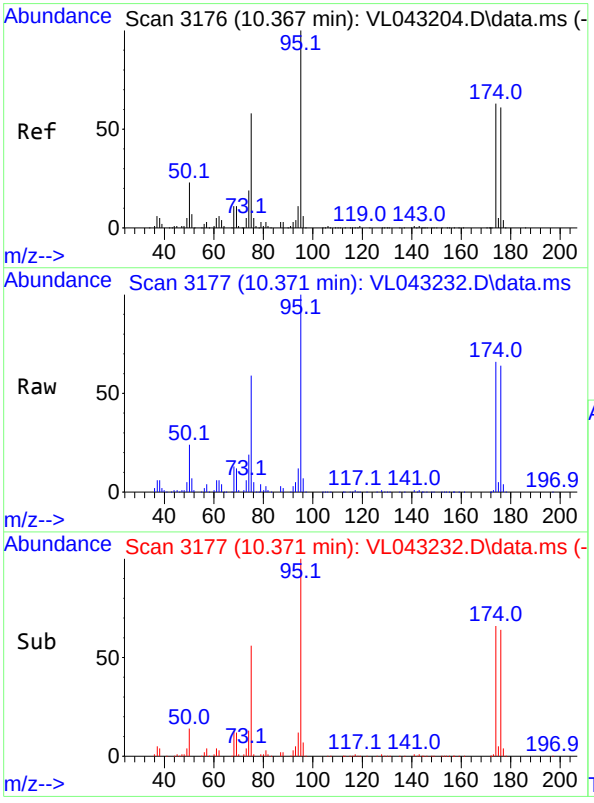
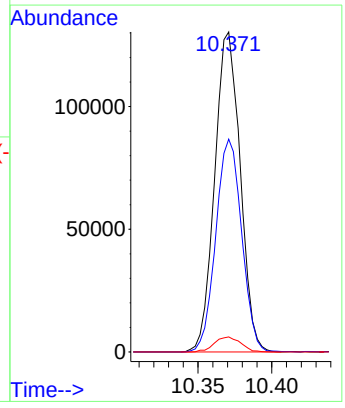
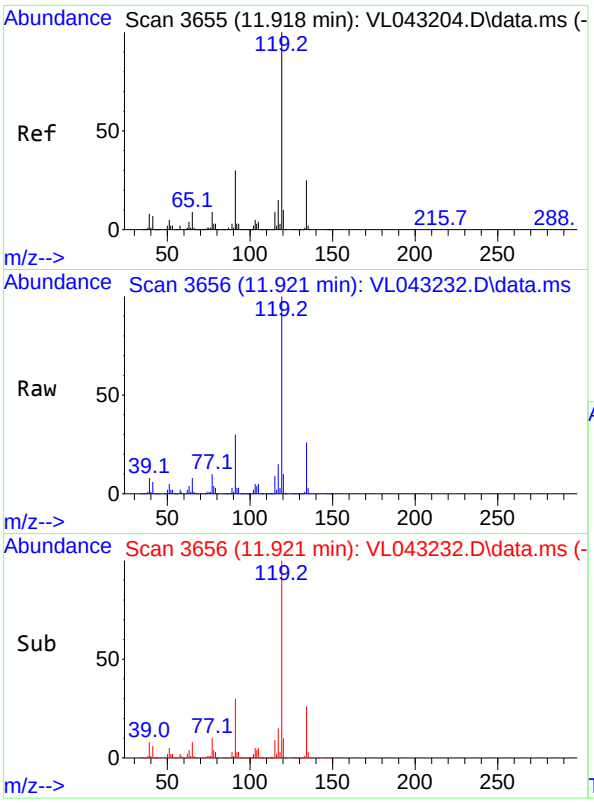


#68
1-Bromo-4-Fluorobenzene
Concen: 10.145 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 95 Resp: 156782

Ion	Ratio	Lower	Upper
95	100		
174	67.5	50.2	75.2
175	4.9	4.1	6.1

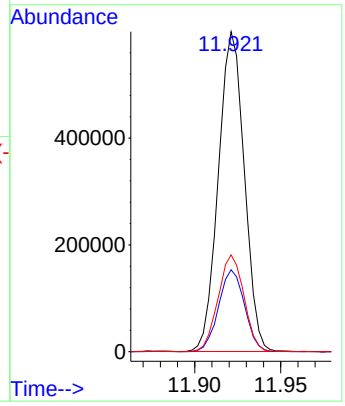




#69
p-Isopropyltoluene
Concen: 10.227 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:119 Resp: 62799

Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.2	30.2
91	30.3	23.8	35.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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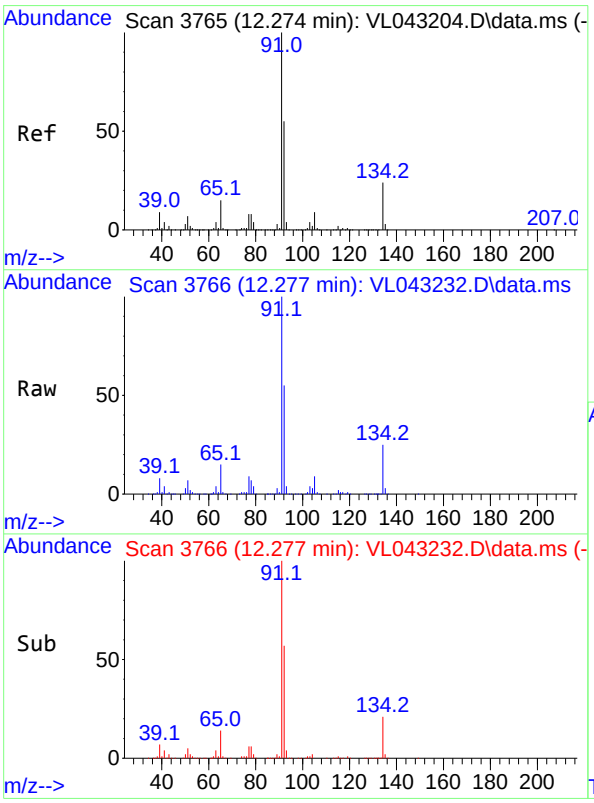
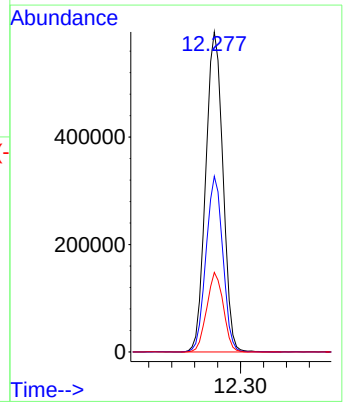
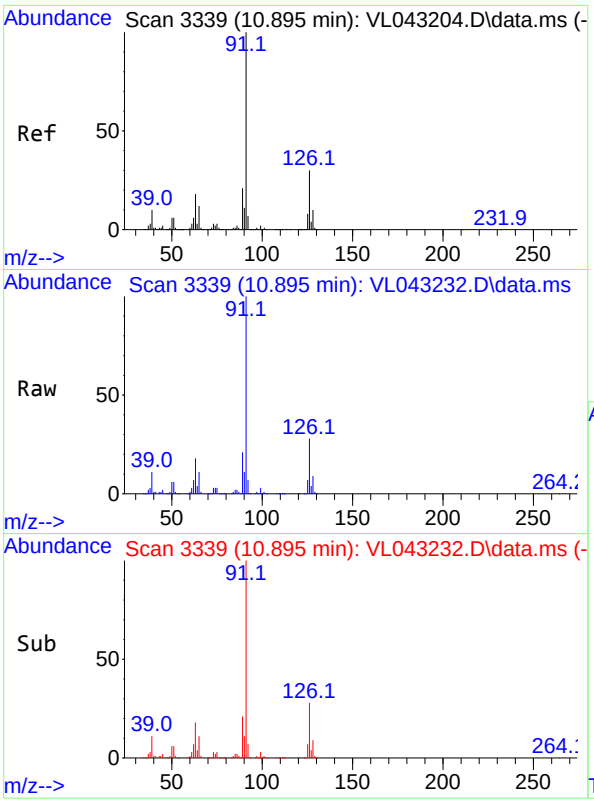


#70
n-Butylbenzene
Concen: 10.380 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 91 Resp: 618379

Ion	Ratio	Lower	Upper
91	100		
92	53.9	43.5	65.3
134	24.1	19.0	28.6

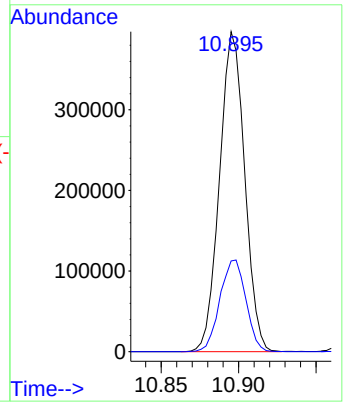




#71
2-Chlorotoluene
Concen: 10.026 ppbv
RT: 10.895 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 91 Resp: 44810

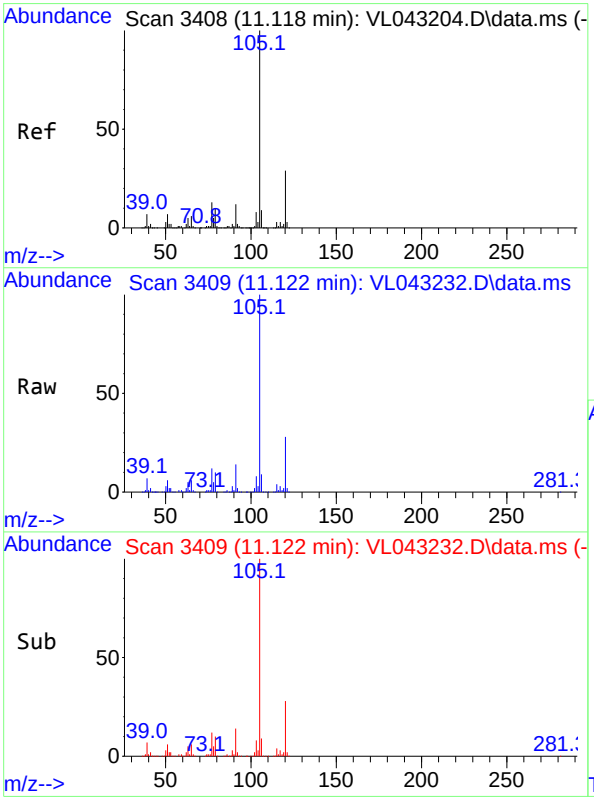
Ion	Ratio	Lower	Upper
91	100		
126	29.6	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

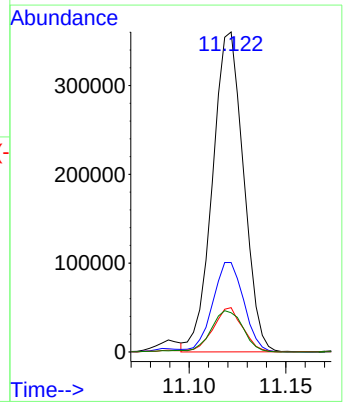
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

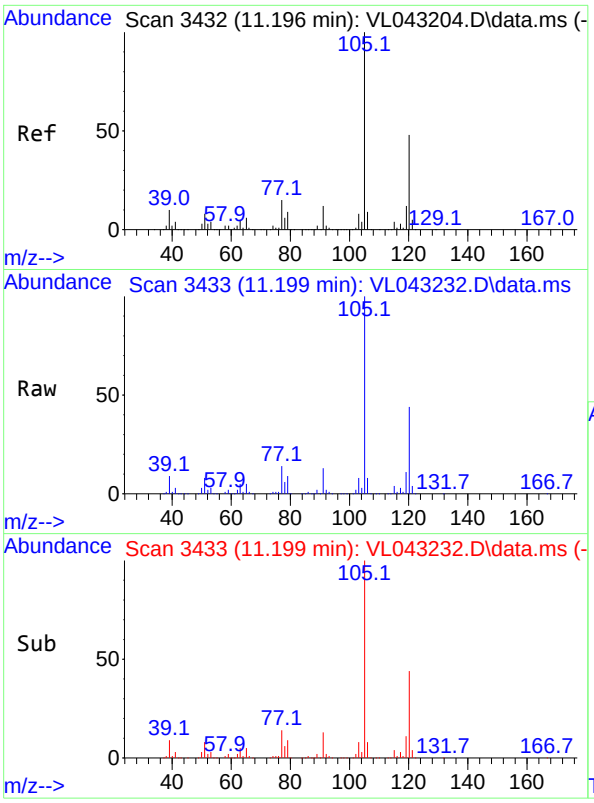


#72
4-Ethyltoluene
Concen: 10.144 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:105 Resp: 401514

Ion	Ratio	Lower	Upper
105	100		
120	29.0	23.8	35.8
91	13.6	10.3	15.5
77	13.7	11.1	16.7

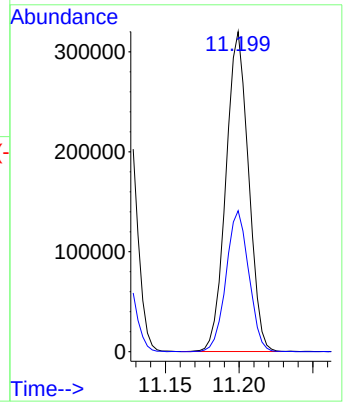




#73
1,3,5-Trimethylbenzene
Concen: 10.255 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:105 Resp: 34062

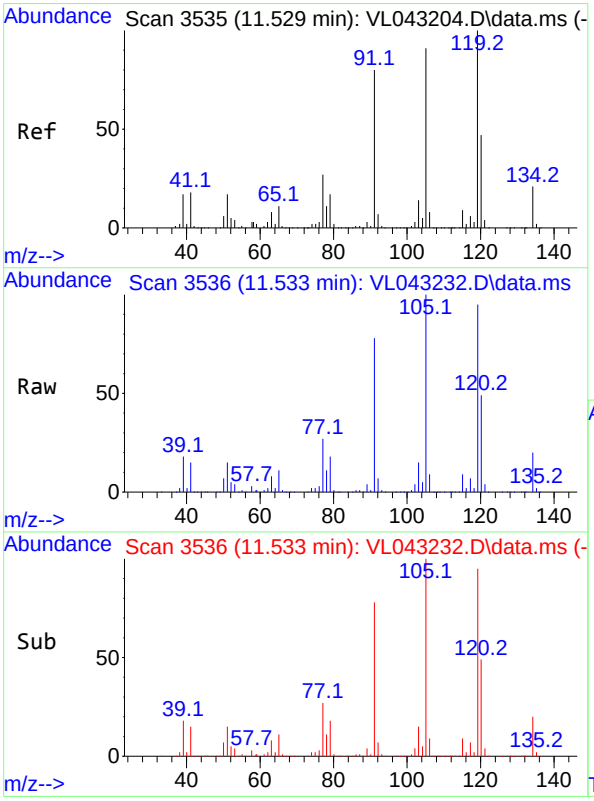
Ion	Ratio	Lower	Upper
105	100		
120	44.1	38.6	57.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

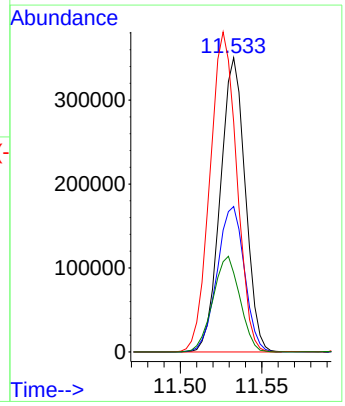
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

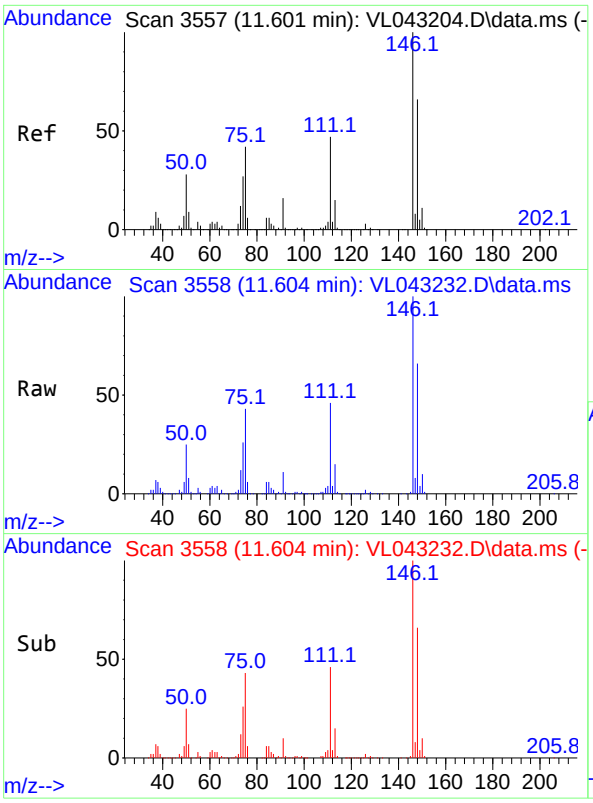


#74
1,2,4-Trimethylbenzene
Concen: 10.277 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:105 Resp: 372542

Ion	Ratio	Lower	Upper
105	100		
120	49.4	41.7	62.5
91	78.0	70.0	105.0
77	26.8	23.8	35.8

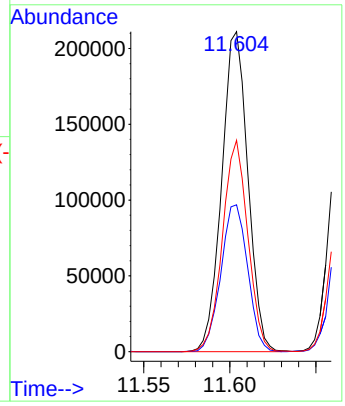




#75
1,3-Dichlorobenzene
Concen: 10.565 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:146 Resp: 22349

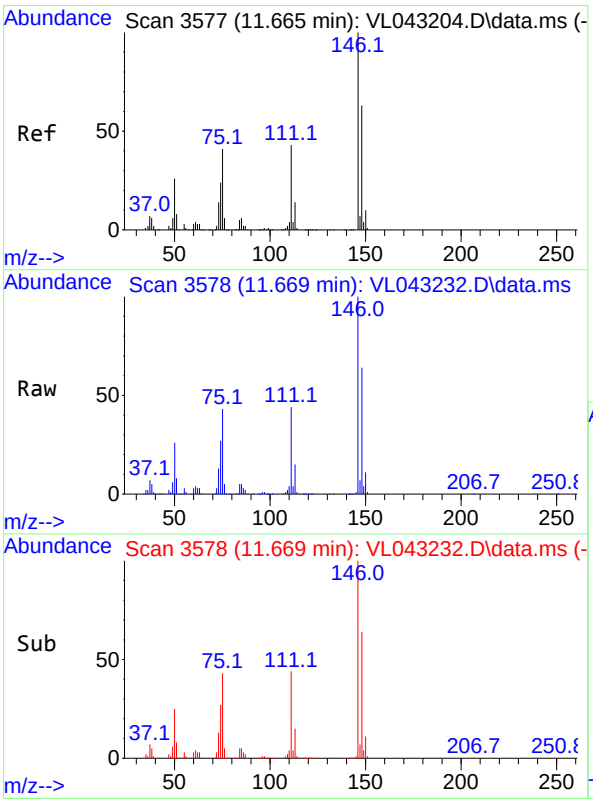
Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.4	70.3
148	64.0	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

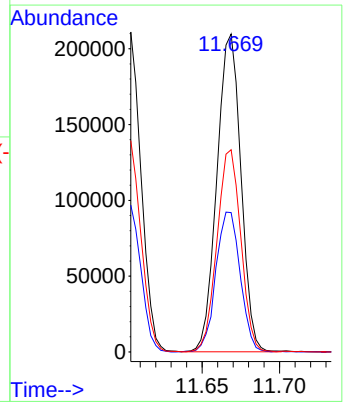
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

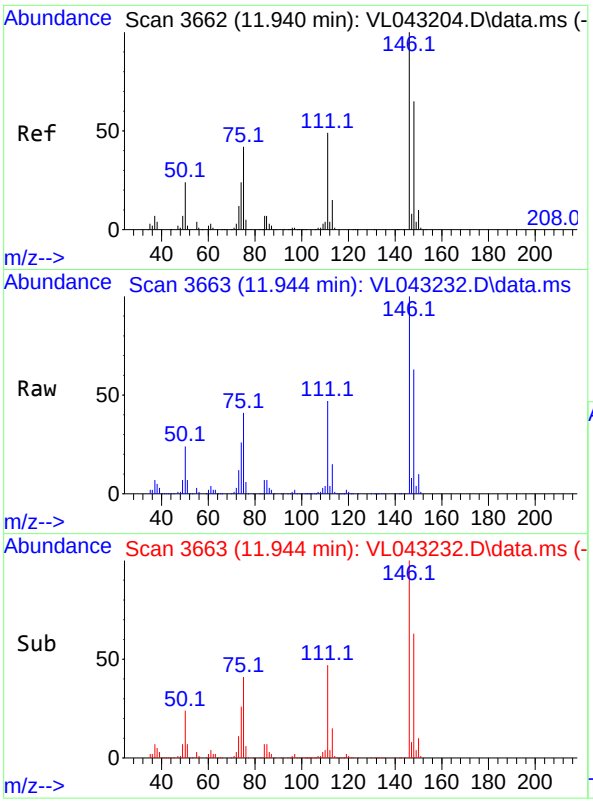


#76
1,4-Dichlorobenzene
Concen: 10.686 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:146 Resp: 226095

Ion	Ratio	Lower	Upper
146	100		
111	44.8	22.8	68.3
148	63.3	31.8	95.4

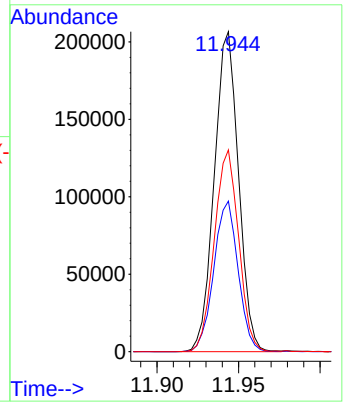




#77
1,2-Dichlorobenzene
Concen: 10.494 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:146 Resp: 21342

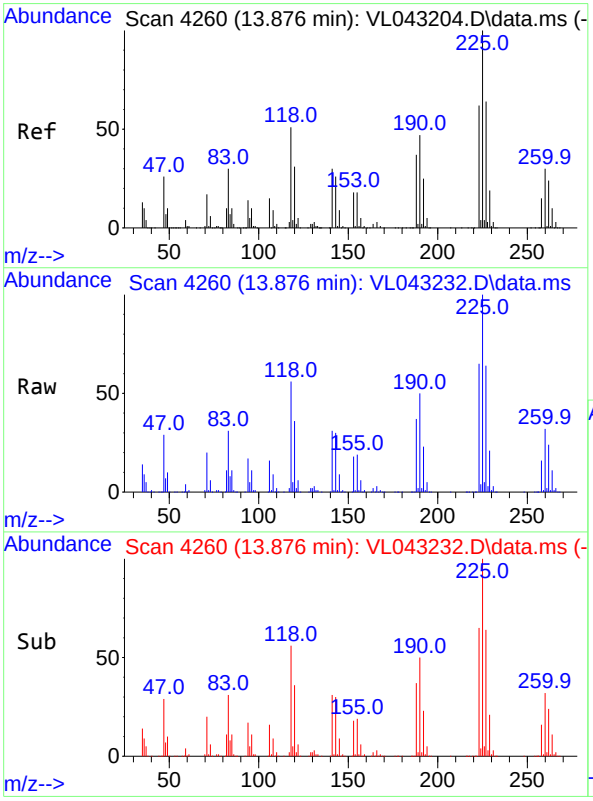
Ion	Ratio	Lower	Upper
146	100		
111	47.3	24.3	73.0
148	63.6	31.6	94.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

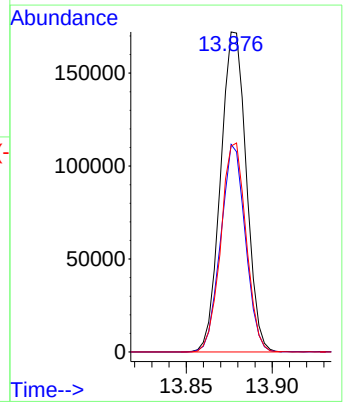
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

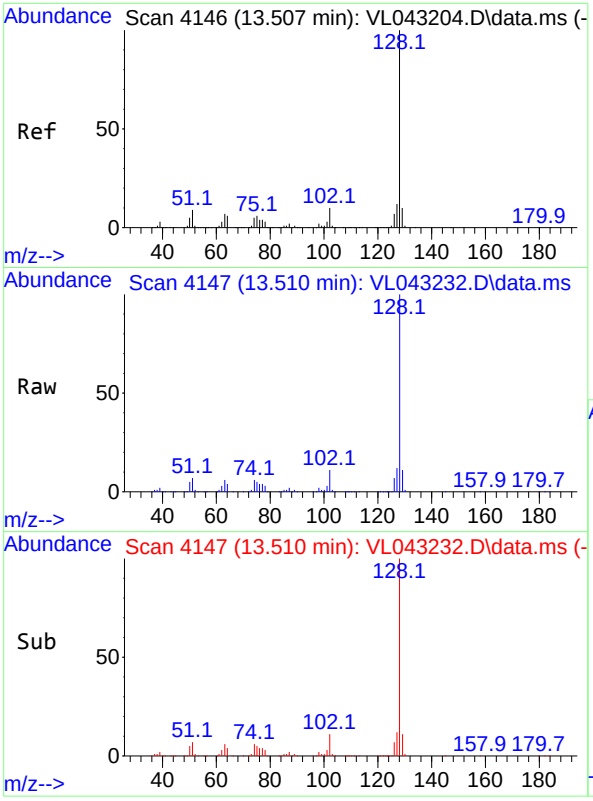


#78
Hexachloro-1,3-Butadiene
Concen: 10.531 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:225 Resp: 178749

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.2	75.4
227	64.1	51.1	76.7

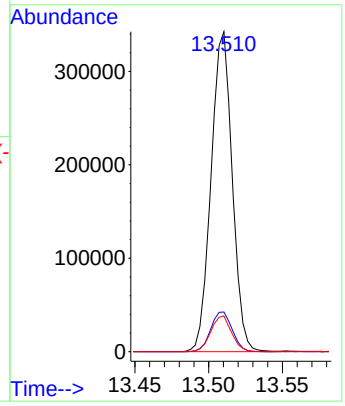




#79
Naphthalene
Concen: 10.601 ppbv
RT: 13.510 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:128 Resp: 34129

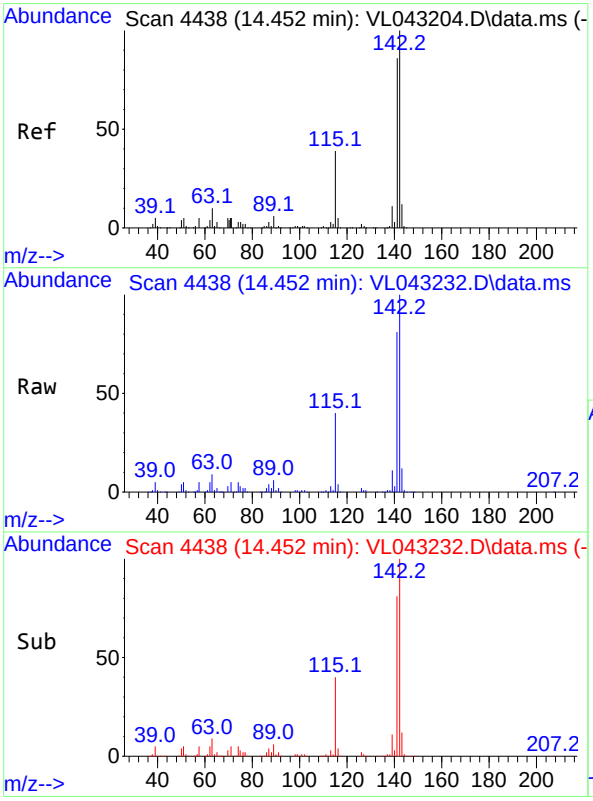
Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.9	14.9
129	11.2	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

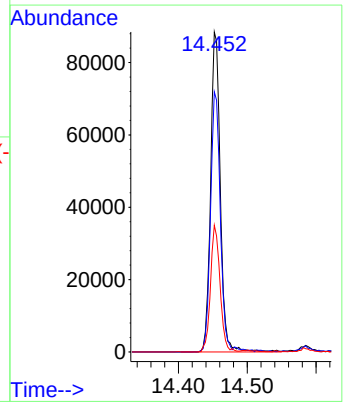
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

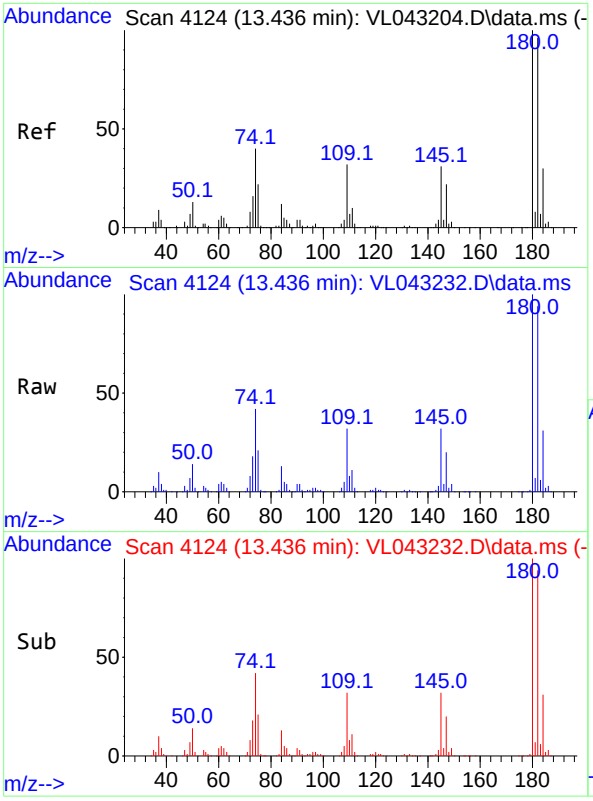


#80
Naphthalene,2-methyl-
Concen: 10.199 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:142 Resp: 86195

Ion	Ratio	Lower	Upper
142	100		
141	82.6	67.1	100.7
115	39.8	31.9	47.9

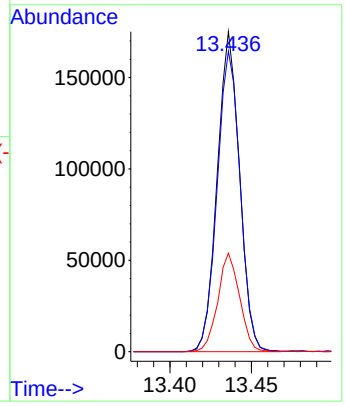




#81
1,2,4-Trichlorobenzene
Concen: 11.534 ppbv
RT: 13.436 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:180 Resp: 16608

Ion	Ratio	Lower	Upper
180	100		
182	97.2	77.4	116.2
184	30.2	24.2	36.4



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\VL111925\
Data File : VL043232.D
Acq On : 19 Nov 2025 09:31
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 20 00:01:40 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	88	0.00
2	T	Dichlorodifluoromethane	1.410	1.558	-10.5	103	0.00
3		Chlorodifluoromethane	1.387	1.319	4.9	88	0.00
4		Chloromethane	0.527	0.512	2.8	91	0.00
5	T	Vinyl Chloride	0.577	0.534	7.5	97	0.00
6	T	Bromomethane	0.280	0.288	-2.9	101	0.00
7		Chloroethane	0.225	0.211	6.2	96	0.00
8	T	Dichlorotetrafluoroethane	1.173	1.277	-8.9	103	0.00
9	T	Propene	0.589	0.506	14.1	89	0.00
10	T	Heptane	1.753	1.467	16.3	81	0.00
11	T	Trichlorofluoromethane	1.367	1.629	-19.2	116	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.067	1.206	-13.0	108	0.00
13		Ethanol	0.207	0.182	12.1	97	0.00
14	T	Bromoethene	0.409	0.440	-7.6	107	0.00
15	T	Acetone	1.389	1.171	15.7	100	0.00
16	T	1,3-Butadiene	0.619	0.581	6.1	93	0.00
17		tert-Butyl alcohol	1.824	1.850	-1.4	96	0.00
18	T	1,1-Dichloroethene	0.497	0.512	-3.0	103	0.00
19	T	Isopropyl Alcohol	0.785	0.742	5.5	96	0.00
20	T	Methylene Chloride	0.600	0.464	22.7	103	0.00
21	T	Allyl Chloride	0.935	0.882	5.7	92	0.00
22	T	trans-1,2-Dichloroethene	0.568	0.582	-2.5	103	0.00
23	T	Vinyl Acetate	1.677	1.562	6.9	85	0.00
24	T	1,1-Dichloroethane	1.096	1.147	-4.7	100	0.00
25	T	Ethyl Acetate	2.996	2.643	11.8	85	0.00
26	T	Hexane	1.314	1.181	10.1	84	0.00
27	T	Carbon Disulfide	1.341	1.433	-6.9	101	0.00
28	T	Methyl tert-Butyl Ether	0.645	0.662	-2.6	99	0.00
29	T	Chloroform	1.867	2.085	-11.7	103	0.00
30	T	Cyclohexane	1.101	1.069	2.9	92	0.00
31	T	cis-1,2-Dichloroethene	1.306	1.294	0.9	92	0.00
32	T	1,1,1-Trichloroethane	1.990	2.212	-11.2	104	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34	T	2-Butanone	0.706	0.611	13.5	87	0.00
35	T	Carbon Tetrachloride	0.759	0.827	-9.0	108	0.00
36	T	Benzene	0.958	0.900	6.1	91	0.00
37	T	1,2-Dichloroethane	0.560	0.598	-6.8	104	0.00
38	T	Trichloroethene	0.375	0.371	1.1	97	0.00
39	T	1,2-Dichloropropane	0.351	0.312	11.1	86	0.00
40	T	1,4-Dioxane	0.158	0.142	10.1	91	0.00
41	T	Tetrahydrofuran	0.390	0.321	17.7	80	0.00
42	T	Bromodichloromethane	0.773	0.815	-5.4	101	0.00
43		Methyl Methacrylate	0.508	0.433	14.8	86	0.00
44	T	2,2,4-Trimethylpentane	1.645	1.436	12.7	85	0.00
45	T	t-1,3-Dichloropropene	0.474	0.432	8.9	87	0.00
46	T	cis-1,3-Dichloropropene	0.556	0.498	10.4	86	0.00
47	T	1,1,2-Trichloroethane	0.372	0.362	2.7	97	0.01
48	T	Dibromochloromethane	0.640	0.689	-7.7	103	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043232.D
Acq On : 19 Nov 2025 09:31
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
LabSampleId : VSTDCCC010

Quant Time: Nov 20 00:01:40 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	0.629	-11.1	104	0.00
50	T	4-Methyl-2-Pentanone	0.994	0.824	17.1	80	0.00
51	T	2-Hexanone	0.772	0.644	16.6	81	0.00
52	T	Tetrachloroethene	0.356	0.358	-0.6	100	0.00
53	T	Toluene	1.134	1.035	8.7	89	0.00
54	T	1,2-Dibromoethane	0.547	0.559	-2.2	98	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56		1,1,1,2-Tetrachloroethane	0.735	0.780	-6.1	104	0.00
57	T	Chlorobenzene	1.027	1.026	0.1	95	0.00
58	T	Ethyl Benzene	1.925	1.872	2.8	92	0.00
59	T	m/p-Xylene	1.543	1.536	0.5	96	0.00
60	T	o-Xylene	1.542	1.546	-0.3	98	0.00
61	T	Styrene	0.675	0.637	5.6	88	0.00
62		Isopropylbenzene	2.758	2.791	-1.2	98	0.00
63	T	1,1,2,2-Tetrachloroethane	0.981	0.951	3.1	96	0.00
64		n-propylbenzene	0.709	0.718	-1.3	98	0.00
65		tert-Butylbenzene	2.463	2.483	-0.8	100	0.00
66	T	Benzyl Chloride	0.250	0.195	22.0	73	0.00
67		sec-Butylbenzene	3.438	3.480	-1.2	101	0.00
68	S	1-Bromo-4-Fluorobenzene	0.733	0.744	-1.5	91	0.00
69		p-Isopropyltoluene	2.912	2.979	-2.3	101	0.00
70		n-Butylbenzene	2.825	2.933	-3.8	100	0.00
71		2-Chlorotoluene	2.120	2.125	-0.2	97	0.00
72	T	4-Ethyltoluene	1.877	1.904	-1.4	98	0.00
73	T	1,3,5-Trimethylbenzene	1.575	1.616	-2.6	100	0.00
74	T	1,2,4-Trimethylbenzene	1.719	1.767	-2.8	102	0.00
75	T	1,3-Dichlorobenzene	1.003	1.060	-5.7	102	0.00
76	T	1,4-Dichlorobenzene	1.003	1.072	-6.9	103	0.00
77	T	1,2-Dichlorobenzene	0.965	1.012	-4.9	104	0.00
78	T	Hexachloro-1,3-Butadiene	0.805	0.848	-5.3	111	0.00
79	T	Naphthalene	1.527	1.619	-6.0	97	0.00
80	T	Naphthalene,2-methyl-	0.401	0.409	-2.0	93	0.00
81	T	1,2,4-Trichlorobenzene	0.683	0.788	-15.4	104	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\VL111925\
Data File : VL043232.D
Acq On : 19 Nov 2025 09:31
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 20 00:01:40 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	88	0.00
2	T	Dichlorodifluoromethane	10.000	11.043	-10.4	103	0.00
3		Chlorodifluoromethane	10.000	9.512	4.9	88	0.00
4		Chloromethane	10.000	9.715	2.9	91	0.00
5	T	Vinyl Chloride	10.000	9.253	7.5	97	0.00
6	T	Bromomethane	10.000	10.302	-3.0	101	0.00
7		Chloroethane	10.000	9.405	6.0	96	0.00
8	T	Dichlorotetrafluoroethane	10.000	10.888	-8.9	103	0.00
9	T	Propene	10.000	8.583	14.2	89	0.00
10	T	Heptane	10.000	8.367	16.3	81	0.00
11	T	Trichlorofluoromethane	10.000	11.922	-19.2	116	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	11.306	-13.1	108	0.00
13		Ethanol	10.000	8.774	12.3	97	0.00
14	T	Bromoethene	10.000	10.756	-7.6	107	0.00
15	T	Acetone	10.000	8.429	15.7	100	0.00
16	T	1,3-Butadiene	10.000	9.384	6.2	93	0.00
17		tert-Butyl alcohol	10.000	10.143	-1.4	96	0.00
18	T	1,1-Dichloroethene	10.000	10.312	-3.1	103	0.00
19	T	Isopropyl Alcohol	10.000	9.447	5.5	96	0.00
20	T	Methylene Chloride	10.000	11.440	-14.4	103	0.00
21	T	Allyl Chloride	10.000	9.439	5.6	92	0.00
22	T	trans-1,2-Dichloroethene	10.000	10.253	-2.5	103	0.00
23	T	Vinyl Acetate	10.000	9.314	6.9	85	0.00
24	T	1,1-Dichloroethane	10.000	10.467	-4.7	100	0.00
25	T	Ethyl Acetate	10.000	8.821	11.8	85	0.00
26	T	Hexane	10.000	8.986	10.1	84	0.00
27	T	Carbon Disulfide	10.000	10.687	-6.9	101	0.00
28	T	Methyl tert-Butyl Ether	10.000	10.265	-2.7	99	0.00
29	T	Chloroform	10.000	11.166	-11.7	103	0.00
30	T	Cyclohexane	10.000	9.707	2.9	92	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.907	0.9	92	0.00
32	T	1,1,1-Trichloroethane	10.000	11.112	-11.1	104	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	92	0.00
34	T	2-Butanone	10.000	8.659	13.4	87	0.00
35	T	Carbon Tetrachloride	10.000	10.900	-9.0	108	0.00
36	T	Benzene	10.000	9.400	6.0	91	0.00
37	T	1,2-Dichloroethane	10.000	10.672	-6.7	104	0.00
38	T	Trichloroethene	10.000	9.902	1.0	97	0.00
39	T	1,2-Dichloropropane	10.000	8.891	11.1	86	0.00
40	T	1,4-Dioxane	10.000	8.983	10.2	91	0.00
41	T	Tetrahydrofuran	10.000	8.223	17.8	80	0.00
42	T	Bromodichloromethane	10.000	10.549	-5.5	101	0.00
43		Methyl Methacrylate	10.000	8.514	14.9	86	0.00
44	T	2,2,4-Trimethylpentane	10.000	8.730	12.7	85	0.00
45	T	t-1,3-Dichloropropene	10.000	9.111	8.9	87	0.00
46	T	cis-1,3-Dichloropropene	10.000	8.947	10.5	86	0.00
47	T	1,1,2-Trichloroethane	10.000	9.736	2.6	97	0.01
48	T	Dibromochloromethane	10.000	10.778	-7.8	103	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043232.D
Acq On : 19 Nov 2025 09:31
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 20 00:01:40 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	11.110	-11.1	104	0.00
50	T	4-Methyl-2-Pentanone	10.000	8.290	17.1	80	0.00
51	T	2-Hexanone	10.000	8.339	16.6	81	0.00
52	T	Tetrachloroethene	10.000	10.048	-0.5	100	0.00
53	T	Toluene	10.000	9.125	8.8	89	0.00
54	T	1,2-Dibromoethane	10.000	10.221	-2.2	98	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56		1,1,1,2-Tetrachloroethane	10.000	10.618	-6.2	104	0.00
57	T	Chlorobenzene	10.000	9.993	0.1	95	0.00
58	T	Ethyl Benzene	10.000	9.726	2.7	92	0.00
59	T	m/p-Xylene	20.000	19.905	0.5	96	0.00
60	T	o-Xylene	10.000	10.030	-0.3	98	0.00
61	T	Styrene	10.000	9.444	5.6	88	0.00
62		Isopropylbenzene	10.000	10.120	-1.2	98	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	9.693	3.1	96	0.00
64		n-propylbenzene	10.000	10.126	-1.3	98	0.00
65		tert-Butylbenzene	10.000	10.080	-0.8	100	0.00
66	T	Benzyl Chloride	10.000	7.820	21.8	73	0.00
67		sec-Butylbenzene	10.000	10.123	-1.2	101	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.145	-1.4	91	0.00
69		p-Isopropyltoluene	10.000	10.227	-2.3	101	0.00
70		n-Butylbenzene	10.000	10.380	-3.8	100	0.00
71		2-Chlorotoluene	10.000	10.026	-0.3	97	0.00
72	T	4-Ethyltoluene	10.000	10.144	-1.4	98	0.00
73	T	1,3,5-Trimethylbenzene	10.000	10.255	-2.6	100	0.00
74	T	1,2,4-Trimethylbenzene	10.000	10.277	-2.8	102	0.00
75	T	1,3-Dichlorobenzene	10.000	10.565	-5.6	102	0.00
76	T	1,4-Dichlorobenzene	10.000	10.686	-6.9	103	0.00
77	T	1,2-Dichlorobenzene	10.000	10.494	-4.9	104	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	10.531	-5.3	111	0.00
79	T	Naphthalene	10.000	10.601	-6.0	97	0.00
80	T	Naphthalene,2-methyl-	10.000	10.199	-2.0	93	0.00
81	T	1,2,4-Trichlorobenzene	10.000	11.534	-15.3	104	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.: Q3626
Instrument ID: MSVOA_L
Calibration Date/Time: 11/20/2025 10:14
Lab File ID: VL043257.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	1.569		11.21	30
Chloromethane	0.527	0.529		0.38	30
Vinyl Chloride	0.577	0.538		-6.76	30
Bromomethane	0.280	0.269		-3.93	30
Chloroethane	0.225	0.218		-3.11	30
Tetrahydrofuran	0.390	0.344		-11.8	30
Trichlorofluoromethane	1.367	1.651		20.77	30
1,1,2-Trichlorotrifluoroethane	1.067	1.233		15.56	30
Dichlorotetrafluoroethane	1.173	1.263		7.67	30
tert-Butyl alcohol	1.824	1.709		-6.3	30
Heptane	1.753	1.521		-13.23	30
1,1-Dichloroethene	0.497	0.539		8.45	30
Acetone	1.389	1.188		-14.47	30
Carbon Disulfide	1.341	1.465		9.25	30
Methyl tert-Butyl Ether	0.645	0.668		3.57	30
Methylene Chloride	0.600	0.472		-21.33	30
trans-1,2-Dichloroethene	0.568	0.608		7.04	30
1,1-Dichloroethane	1.096	1.165		6.3	30
Cyclohexane	1.101	1.067		-3.09	30
2-Butanone	0.706	0.657		-6.94	30
Carbon Tetrachloride	0.759	0.862		13.57	30
cis-1,2-Dichloroethene	1.306	1.342		2.76	30
Chloroform	1.867	2.134		14.3	30
1,1,1-Trichloroethane	1.990	2.205		10.8	30
2,2,4-Trimethylpentane	1.645	1.586		-3.59	30
Benzene	0.958	0.965		0.73	30
1,2-Dichloroethane	0.560	0.629		12.32	30
Trichloroethene	0.375	0.391		4.27	30
1,2-Dichloropropane	0.351	0.335		-4.56	30
Bromodichloromethane	0.773	0.862		11.51	30
4-Methyl-2-Pentanone	0.994	0.864		-13.08	30
Toluene	1.134	1.089		-3.97	30
t-1,3-Dichloropropene	0.474	0.364		-23.21	30
cis-1,3-Dichloropropene	0.556	0.445		-19.96	30
1,1,2-Trichloroethane	0.372	0.379		1.88	30
Dibromochloromethane	0.640	0.703		9.84	30
1,2-Dibromoethane	0.547	0.530		-3.11	30
Tetrachloroethene	0.356	0.360		1.12	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.: Q3626

Instrument ID: MSVOA_L Calibration Date/Time: 11/20/2025 10:14

Lab File ID: VL043257.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	1.061		3.31	30
Ethyl Benzene	1.925	1.932		0.36	30
m/p-Xylene	1.543	1.592		3.18	30
o-Xylene	1.542	1.585		2.79	30
Styrene	0.675	0.631		-6.52	30
Bromoform	0.566	0.623		10.07	30
1,1,2,2-Tetrachloroethane	0.981	0.963		-1.84	30
2-Chlorotoluene	2.120	2.093		-1.27	30
1,3,5-Trimethylbenzene	1.575	1.594		1.21	30
1,2,4-Trimethylbenzene	1.719	1.736		0.99	30
1,3-Dichlorobenzene	1.003	1.023		1.99	30
1,4-Dichlorobenzene	1.003	1.015		1.2	30
1,2-Dichlorobenzene	0.965	0.968		0.31	30
1,2,4-Trichlorobenzene	0.683	0.721		5.56	30
Hexachloro-1,3-Butadiene	0.805	0.773		-3.97	30
1,3-Butadiene	0.619	0.607		-1.94	30
Naphthalene	1.527	1.456		-4.65	30
4-Ethyltoluene	1.877	1.905		1.49	30
1-Bromo-4-Fluorobenzene	0.733	0.748		2.05	30
Hexane	1.314	1.265		-3.73	30
Allyl Chloride	0.935	0.815		-12.83	30
1,4-Dioxane	157.566	132.640		-15.82	30
Methyl Methacrylate	0.508	0.455		-10.43	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\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

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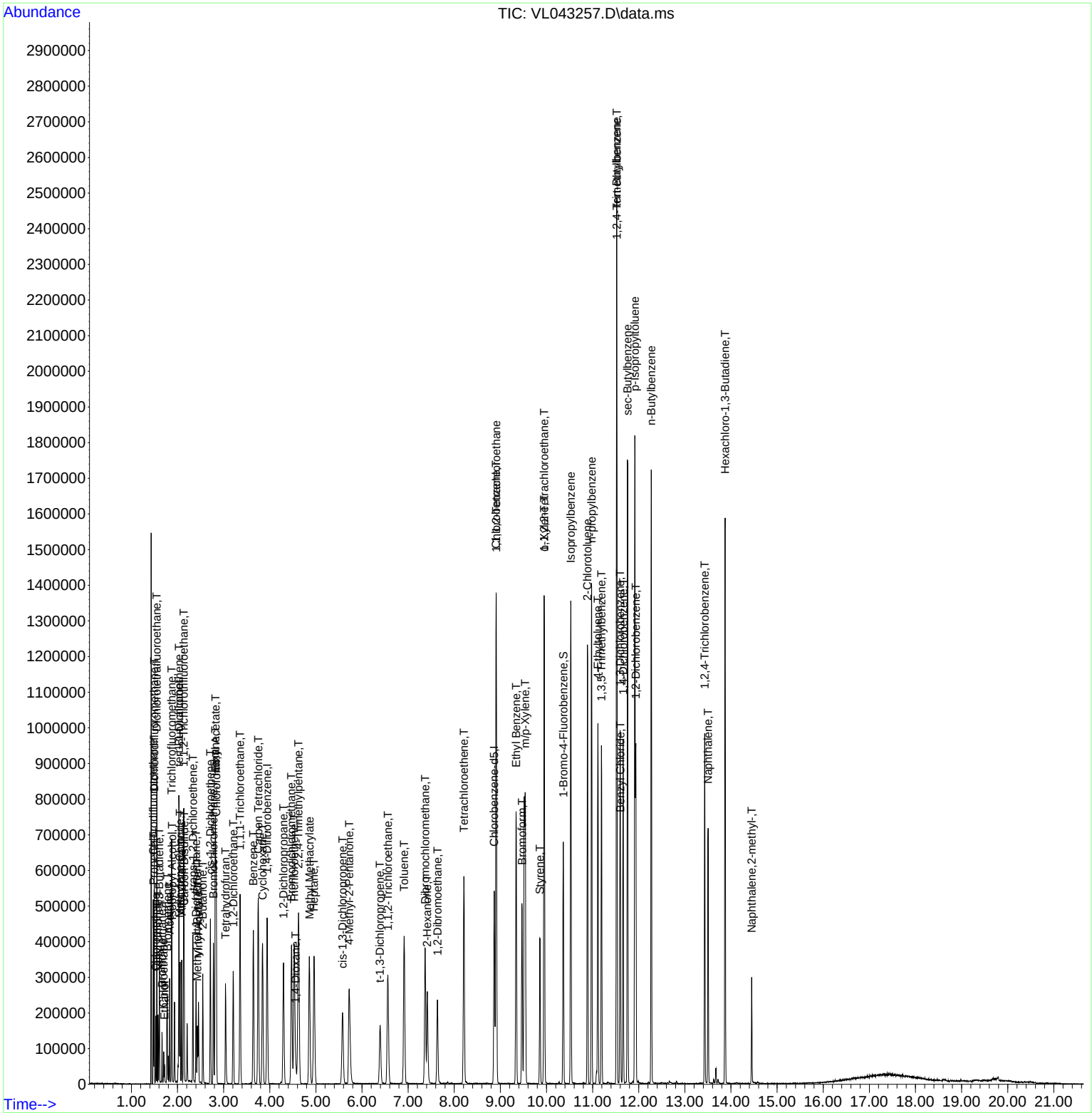
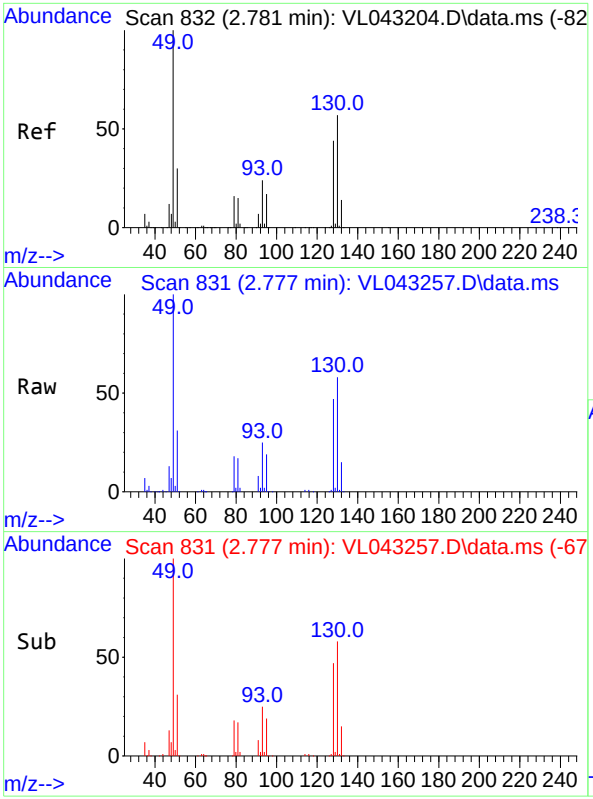
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

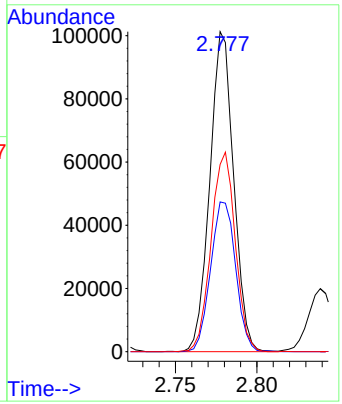




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 49 Resp: 10275

Ion	Ratio	Lower	Upper
49	100		
128	49.3	23.0	69.0
130	63.4	29.9	89.7



Instrument :
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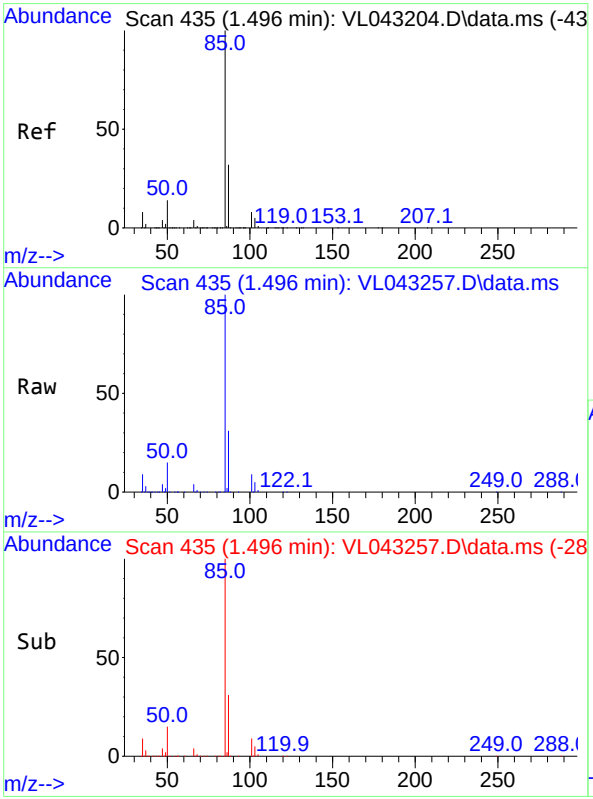
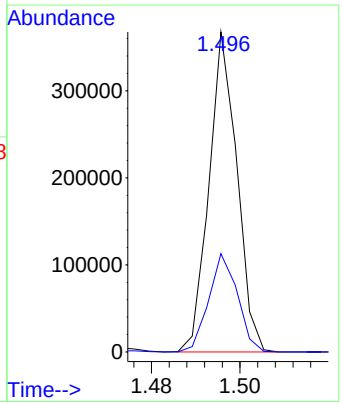
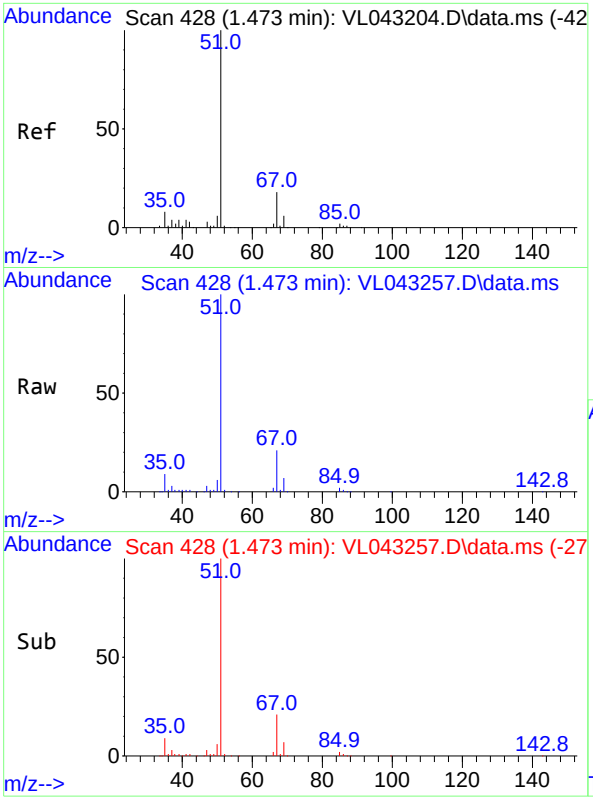


#2
Dichlorodifluoromethane
Concen: 11.121 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 85 Resp: 161177

Ion	Ratio	Lower	Upper
85	100		
87	30.7	25.4	38.2

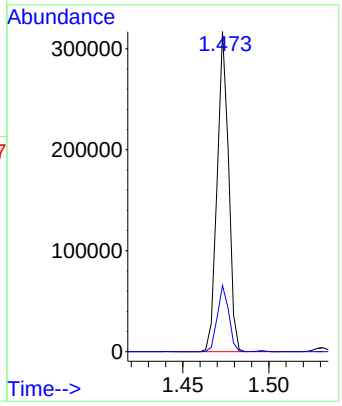




#3
Chlorodifluoromethane
Concen: 10.259 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 51 Resp: 14623

Ion	Ratio	Lower	Upper
51	100		
67	20.8	14.9	22.3



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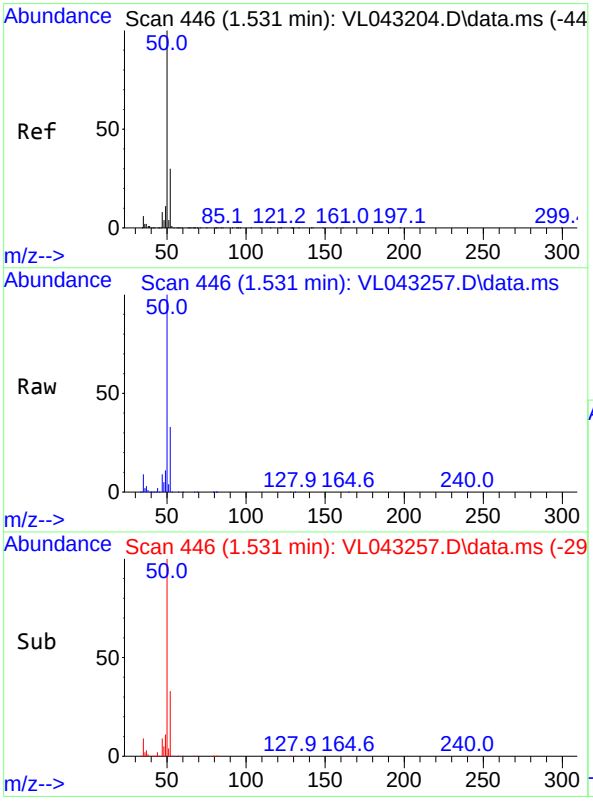
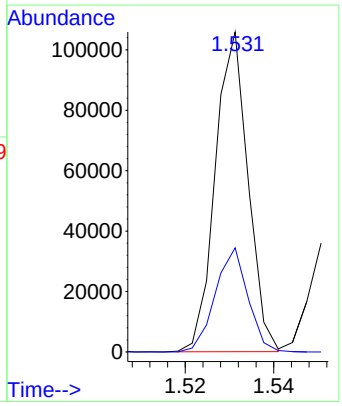
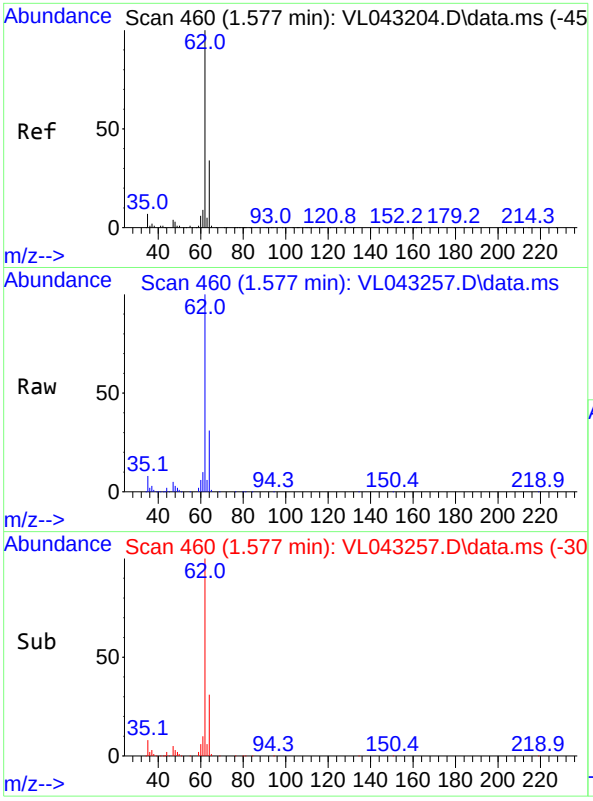


#4
Chloromethane
Concen: 10.035 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 50 Resp: 54380

Ion	Ratio	Lower	Upper
50	100		
52	32.6	24.1	36.1

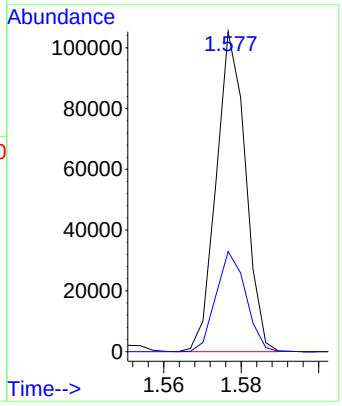




#5
Vinyl Chloride
Concen: 9.322 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 62 Resp: 5524

Ion	Ratio	Lower	Upper
62	100		
64	31.3	27.3	40.9



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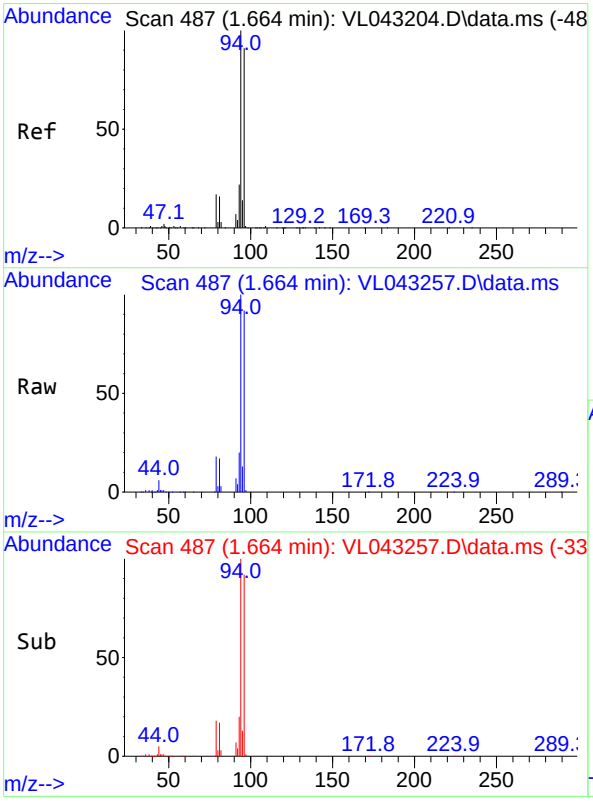
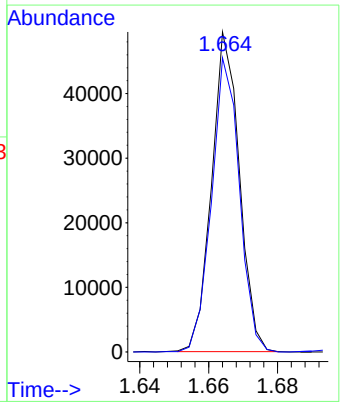
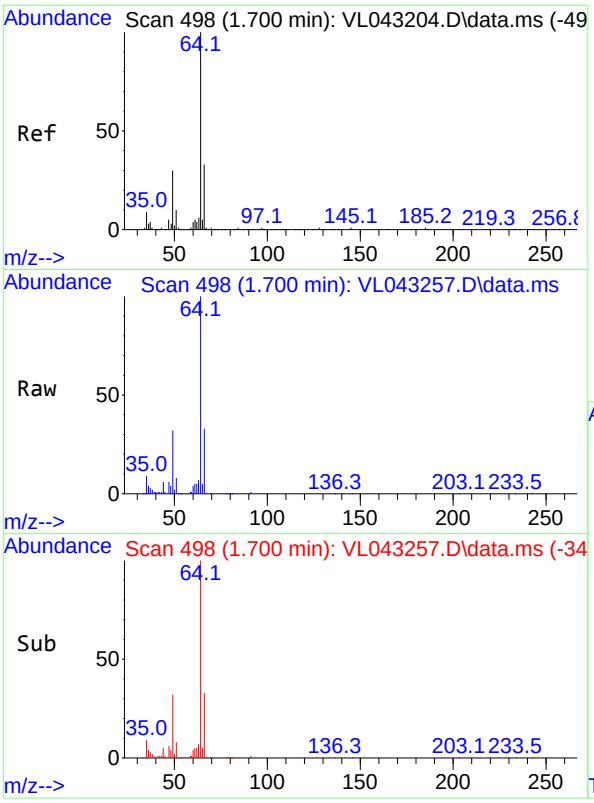


#6
Bromomethane
Concen: 9.621 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 94 Resp: 27639

Ion	Ratio	Lower	Upper
94	100		
96	92.0	72.9	109.3

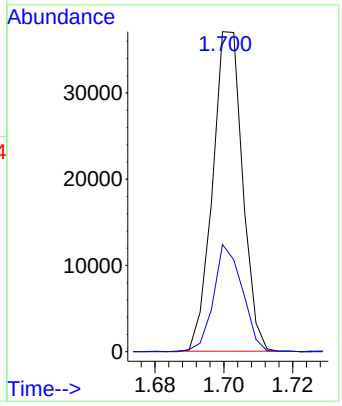




#7
Chloroethane
Concen: 9.698 ppbv
RT: 1.700 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 64 Resp: 2238

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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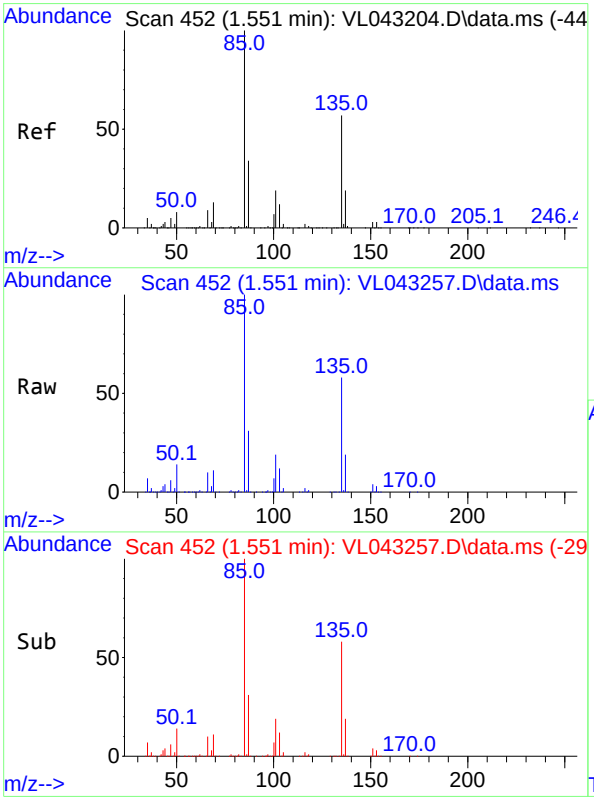
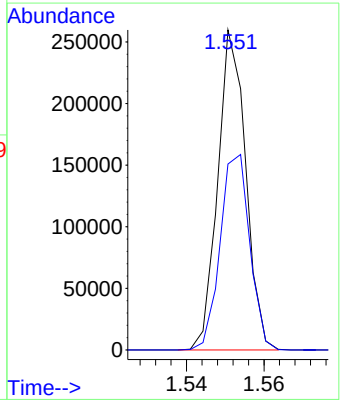
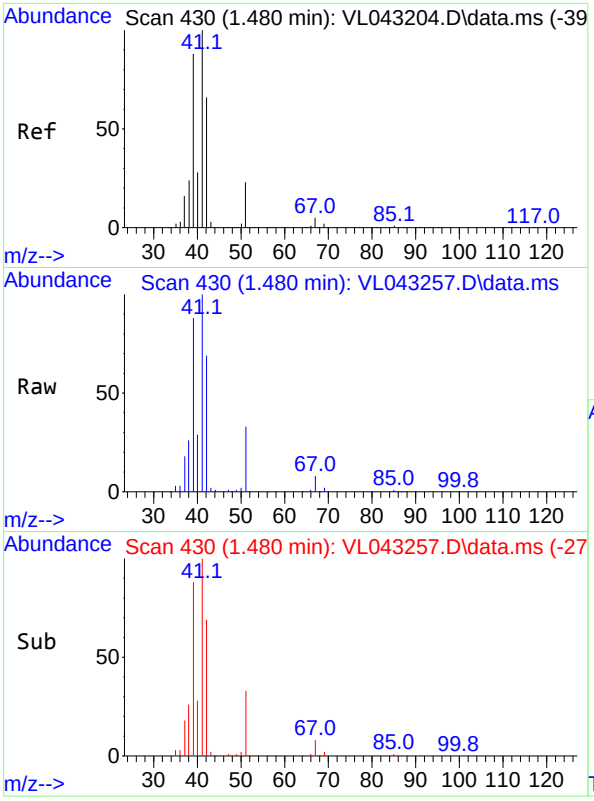


#8
Dichlorotetrafluoroethane
Concen: 10.769 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 85 Resp: 129834

Ion	Ratio	Lower	Upper
85	100		
135	65.0	52.6	79.0

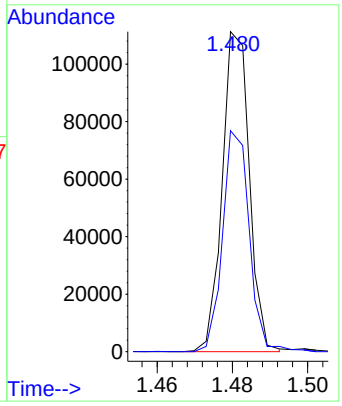




#9
Propene
Concen: 9.202 ppbv m
RT: 1.480 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 41 Resp: 5569

Ion	Ratio	Lower	Upper
41	100		
42	5.5	3.7	5.5



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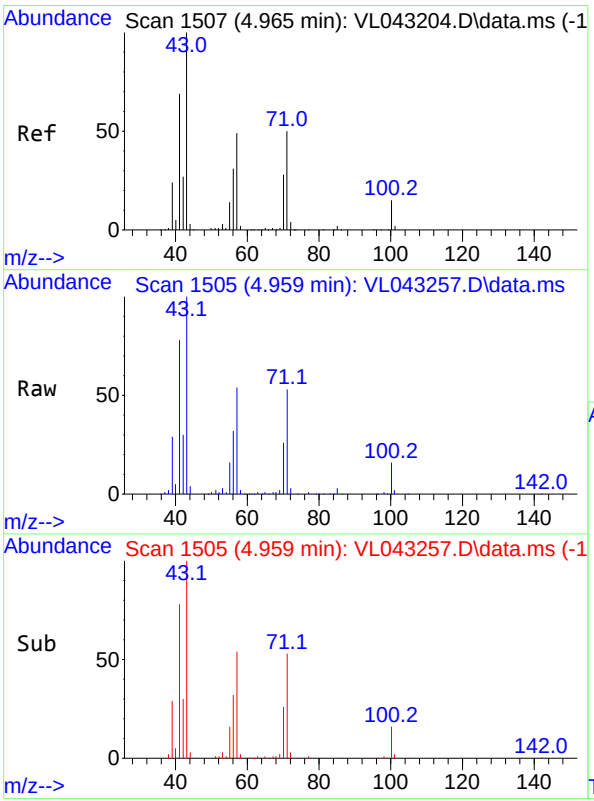
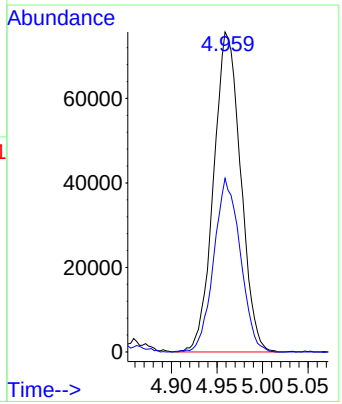
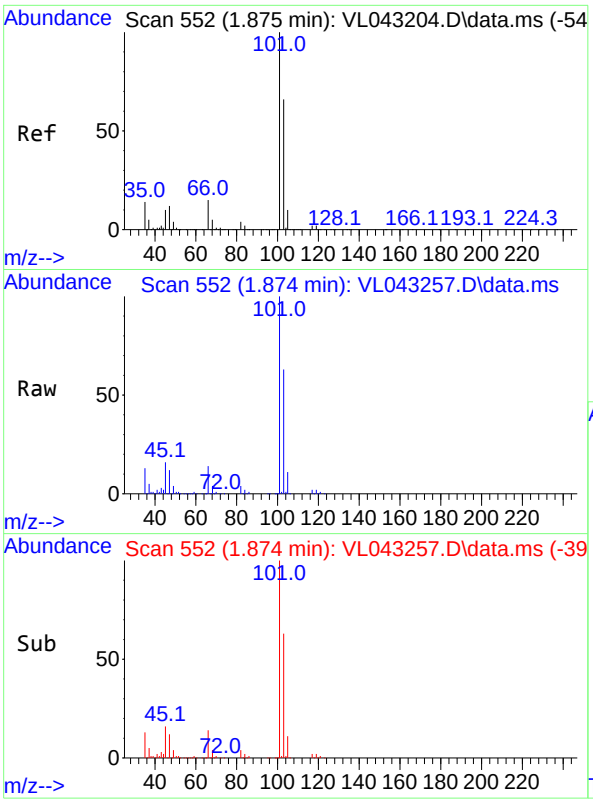


#10
Heptane
Concen: 8.674 ppbv
RT: 4.959 min Scan# 1505
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 43 Resp: 156253

Ion	Ratio	Lower	Upper
43	100		
57	53.2	39.7	59.5

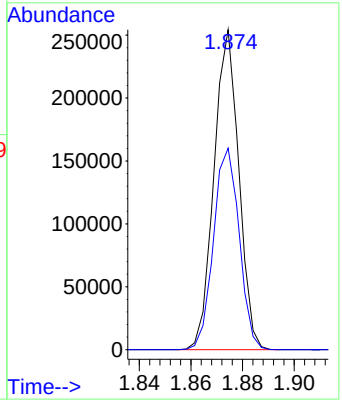




#11
Trichlorofluoromethane
Concen: 12.083 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:101 Resp: 16967

Ion	Ratio	Lower	Upper
101	100		
103	63.0	52.6	79.0



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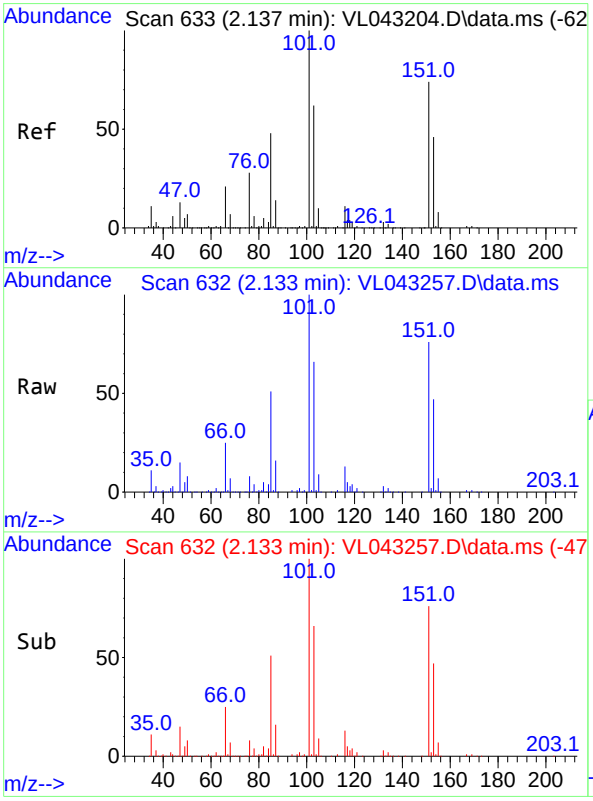
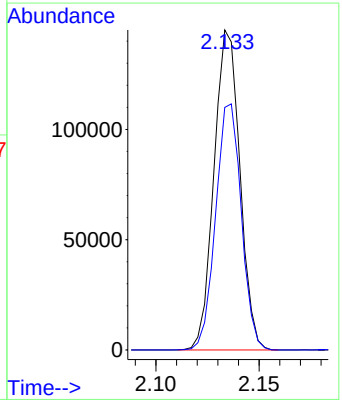
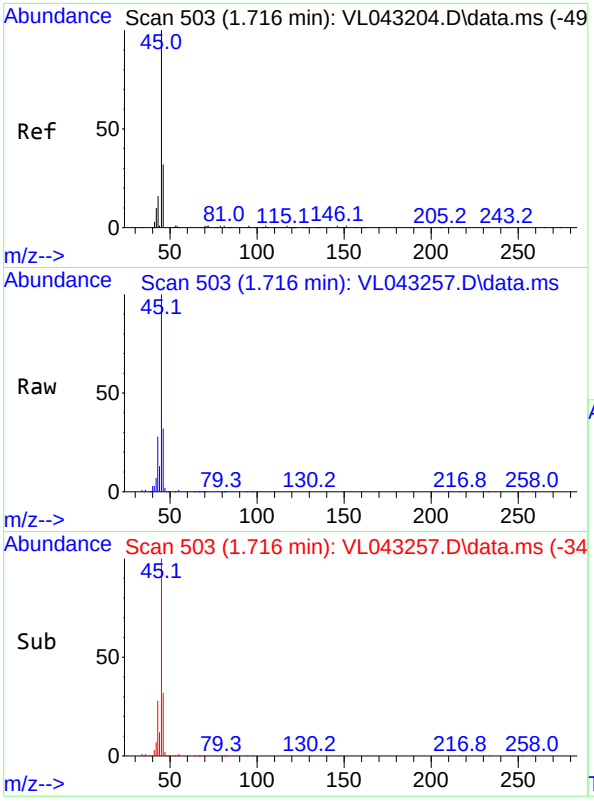


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.553 ppbv
RT: 2.133 min Scan# 632
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:101 Resp: 126654

Ion	Ratio	Lower	Upper
101	100		
151	76.2	59.2	88.8

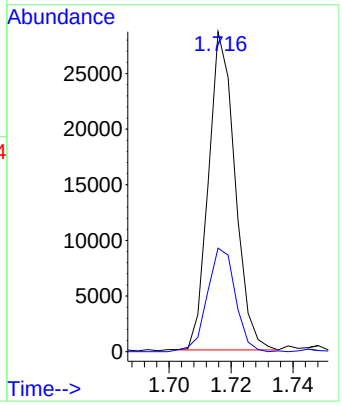




#13
Ethanol
Concen: 7.973 ppbv
RT: 1.716 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 45 Resp: 1697

Ion	Ratio	Lower	Upper
45	100		
46	34.5	15.0	59.8



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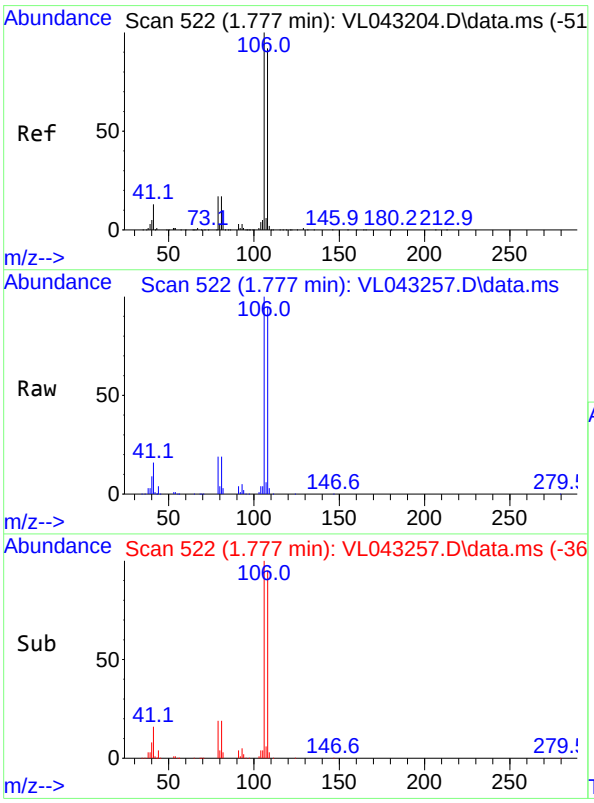
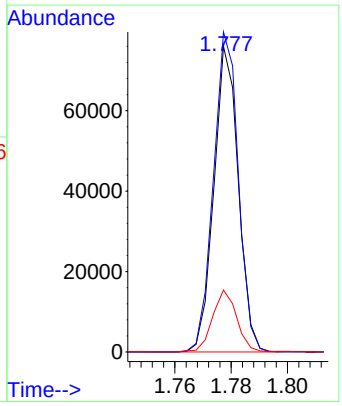
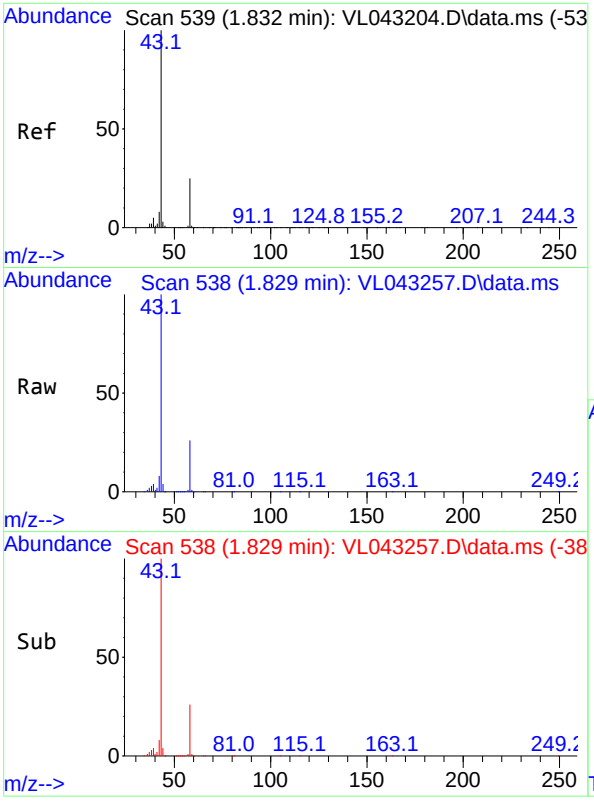


#14
Bromoethene
Concen: 10.897 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:108 Resp: 45797

Ion	Ratio	Lower	Upper
108	100		
106	106.5	88.9	133.3
79	20.6	16.5	24.7

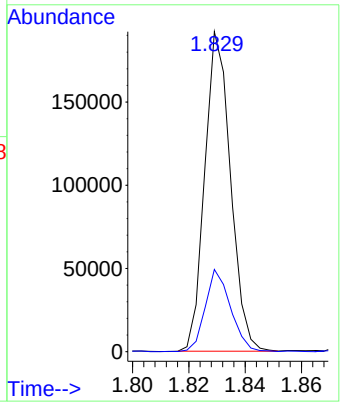




#15
Acetone
Concen: 8.547 ppbv
RT: 1.829 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 43 Resp: 12202

Ion	Ratio	Lower	Upper
43	100		
58	25.6	20.7	31.1



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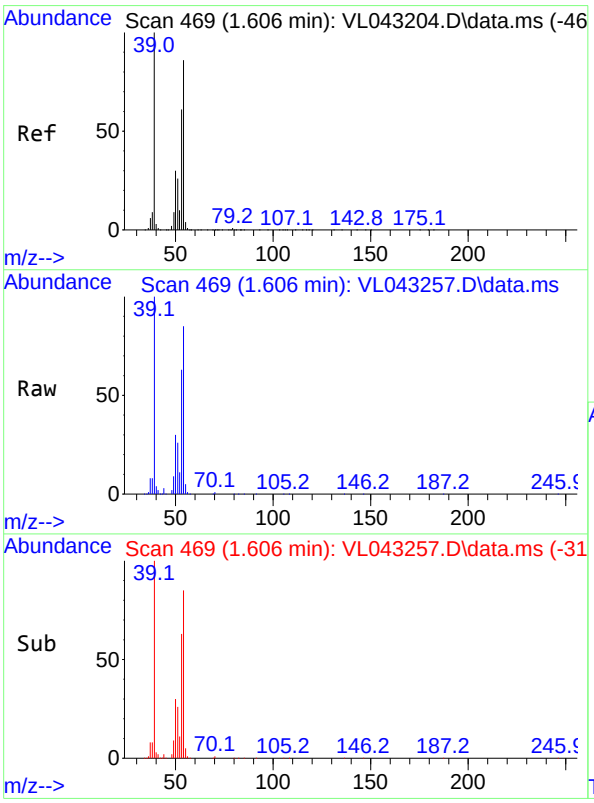
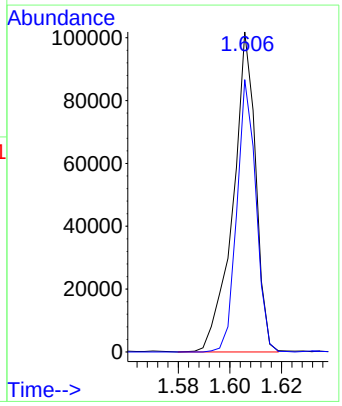
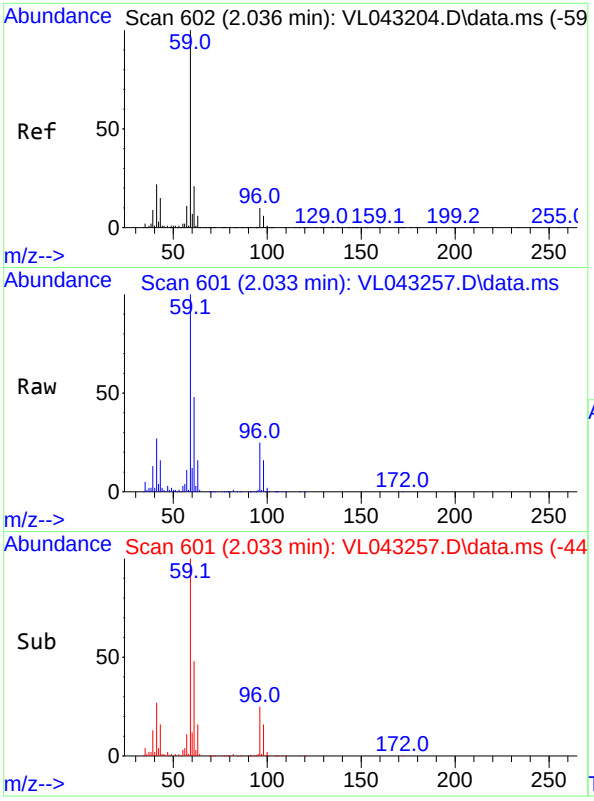


#16
1,3-Butadiene
Concen: 9.794 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 39 Resp: 62334

Ion	Ratio	Lower	Upper
39	100		
54	71.9	59.4	89.2

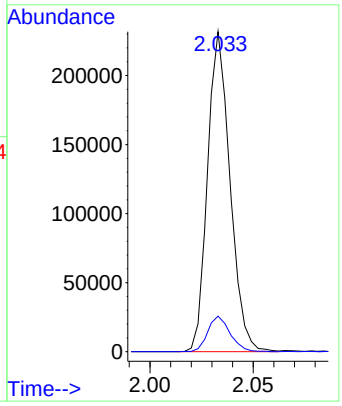




#17
tert-Butyl alcohol
Concen: 9.372 ppbv
RT: 2.033 min Scan# 6(
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 59 Resp: 17562(

Ion	Ratio	Lower	Upper
59	100		
57	11.1	9.0	13.4



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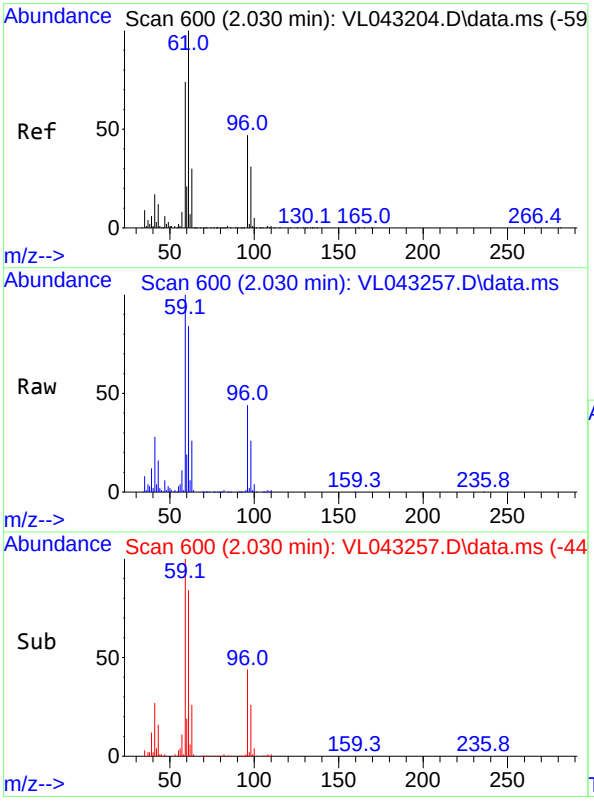
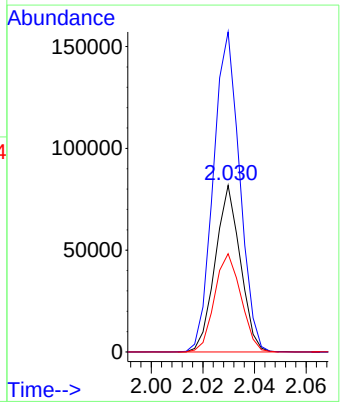
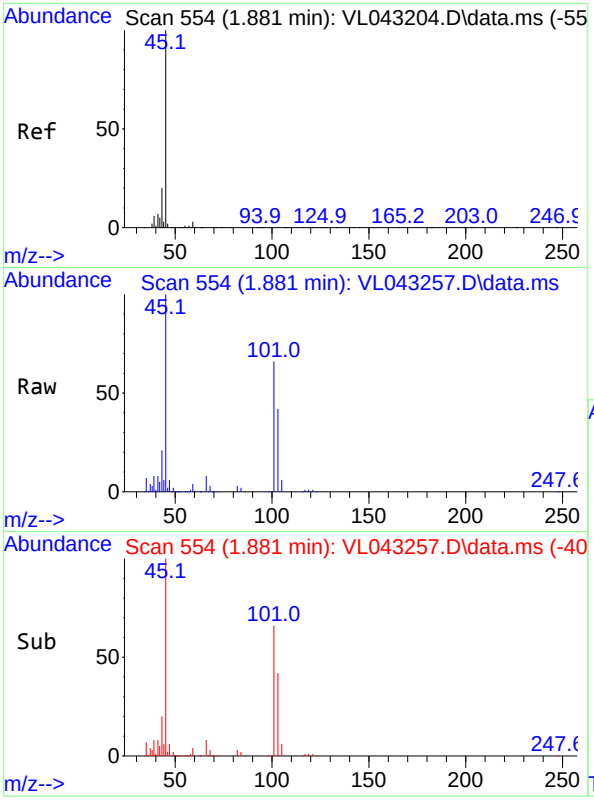


#18
1,1-Dichloroethene
Concen: 10.857 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 96 Resp: 55419

Ion	Ratio	Lower	Upper
96	100		
61	192.0	170.6	255.8
98	58.9	52.2	78.4





#19
Isopropyl Alcohol
Concen: 8.996 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 45 Resp: 7257

Ion	Ratio	Lower	Upper
45	100		
58	43.1	31.3	46.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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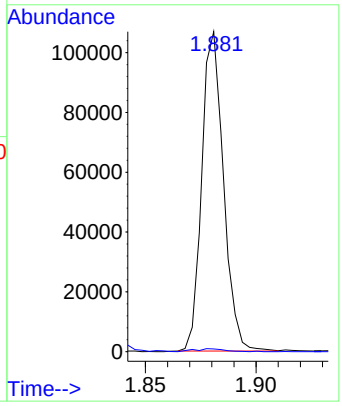
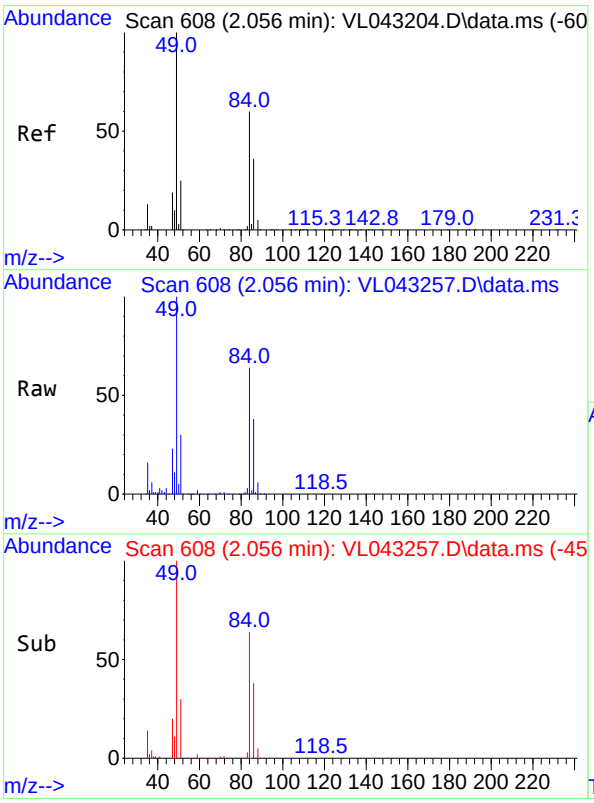
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

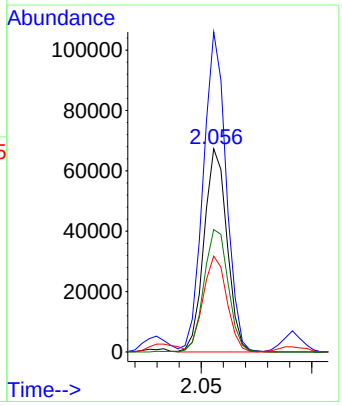


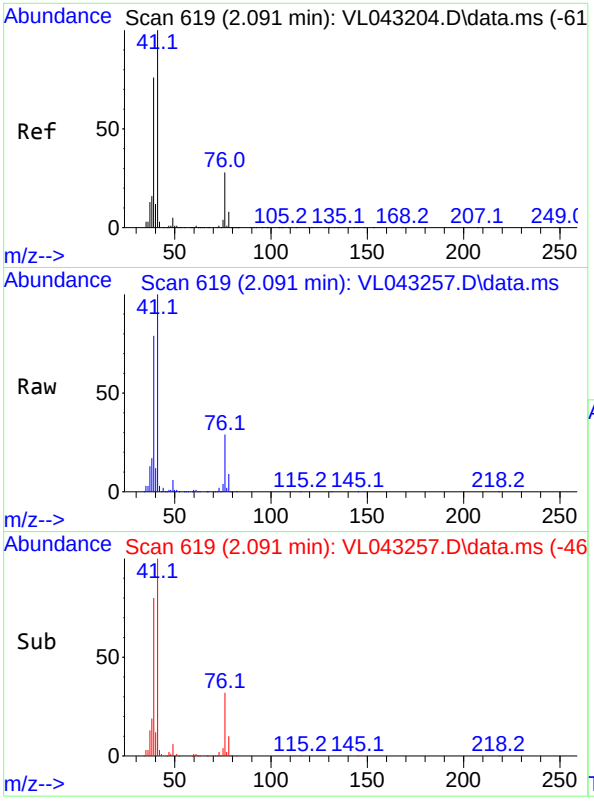


#20
Methylene Chloride
Concen: 11.659 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 84 Resp: 48499

Ion	Ratio	Lower	Upper
84	100		
49	155.9	132.9	199.3
51	45.7	34.8	52.2
86	60.2	48.2	72.2

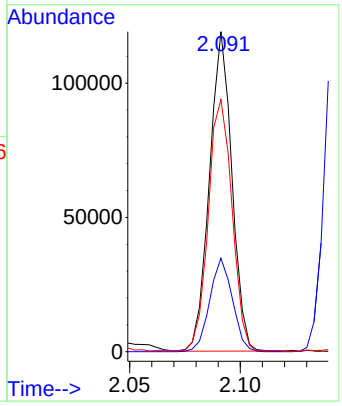




#21
Allyl Chloride
Concen: 8.720 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 41 Resp: 8376

Ion	Ratio	Lower	Upper
41	100		
76	29.6	22.1	33.1
39	83.6	61.0	91.4



Instrument :
MSVOA_L
ClientSampleId :
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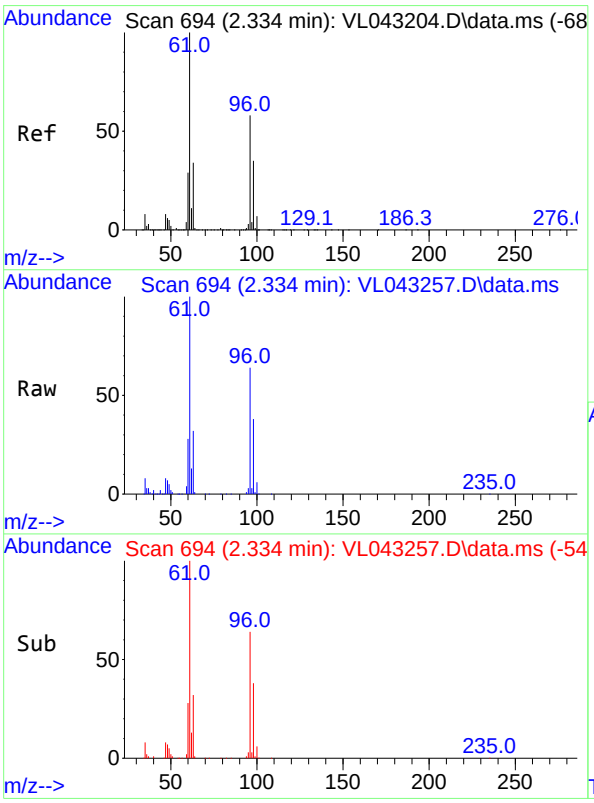
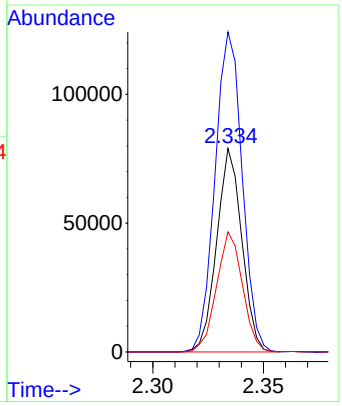
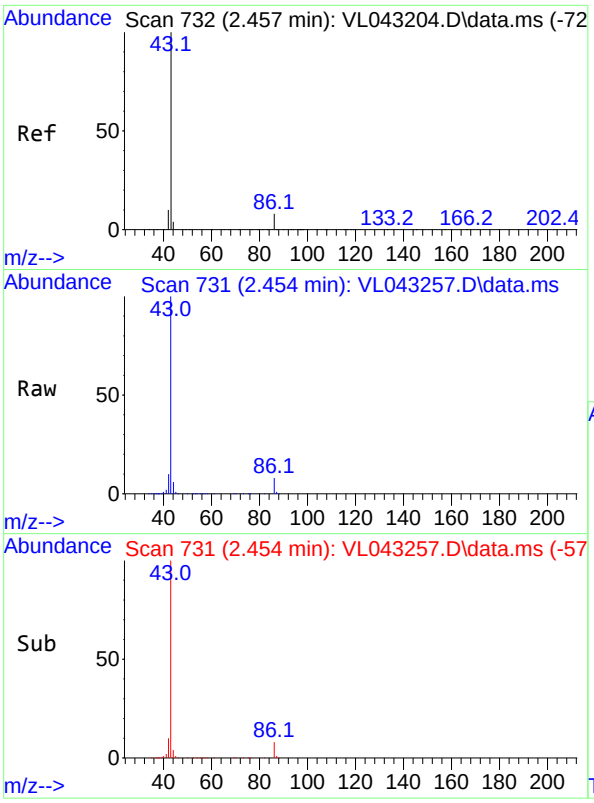


#22
trans-1,2-Dichloroethene
Concen: 10.711 ppbv
RT: 2.334 min Scan# 694
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 96 Resp: 62490

Ion	Ratio	Lower	Upper
96	100		
61	157.2	139.0	208.6
98	59.1	49.4	74.2

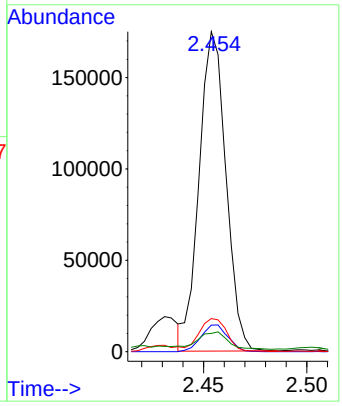




#23
Vinyl Acetate
Concen: 9.148 ppbv
RT: 2.454 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 43 Resp: 15767

Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.2	9.2
42	10.2	8.0	12.0
44	4.8	4.0	6.0



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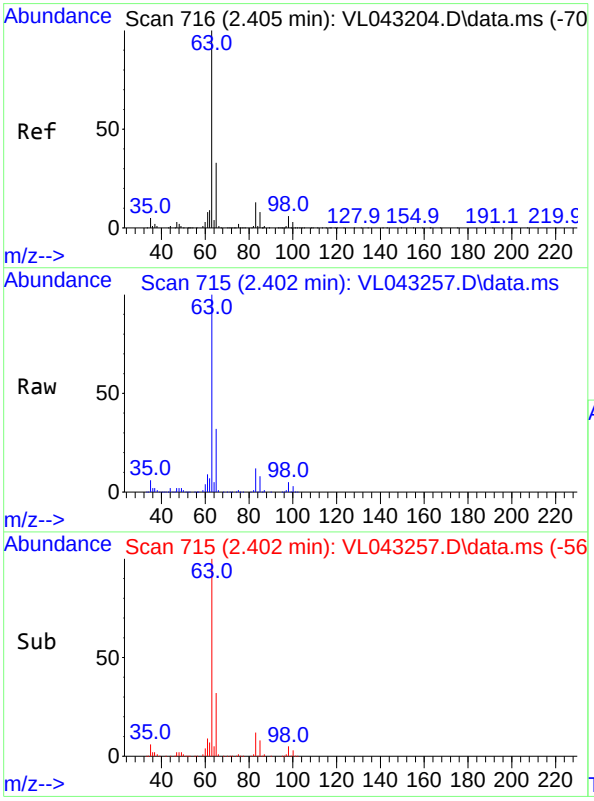
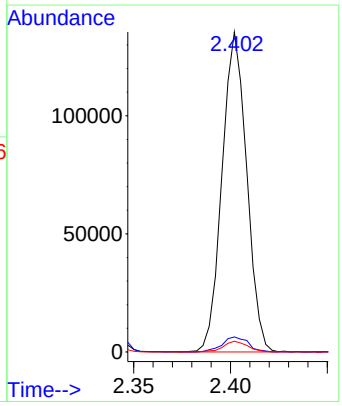
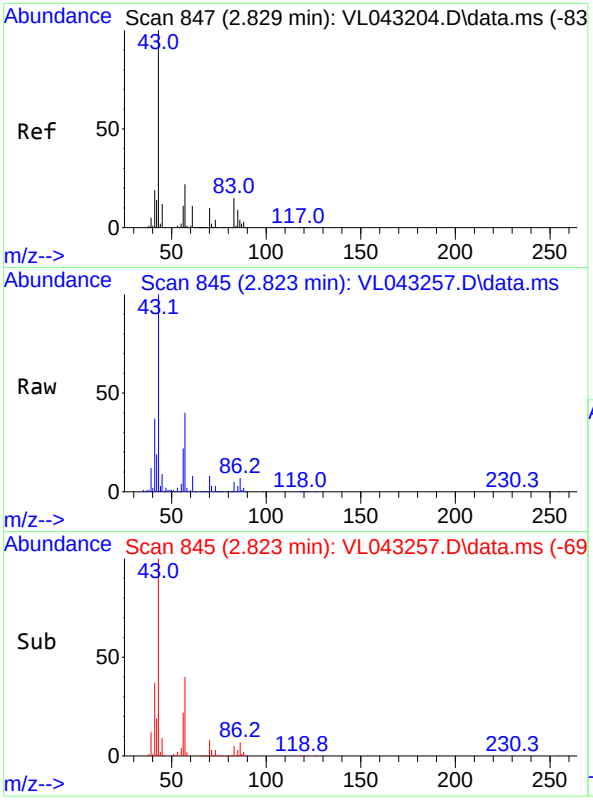


#24
1,1-Dichloroethane
Concen: 10.625 ppbv
RT: 2.402 min Scan# 715
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 63 Resp: 119663

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.8	8.4
100	3.4	1.3	3.9

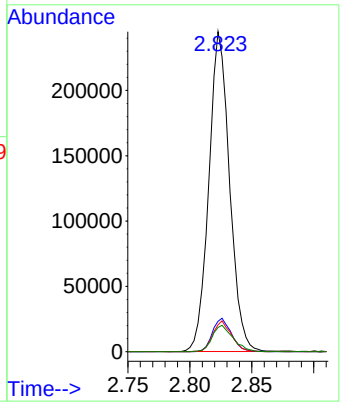




#25
Ethyl Acetate
Concen: 9.287 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 43 Resp: 28597

Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	8.7	7.0	10.4
70	8.3	7.0	10.6



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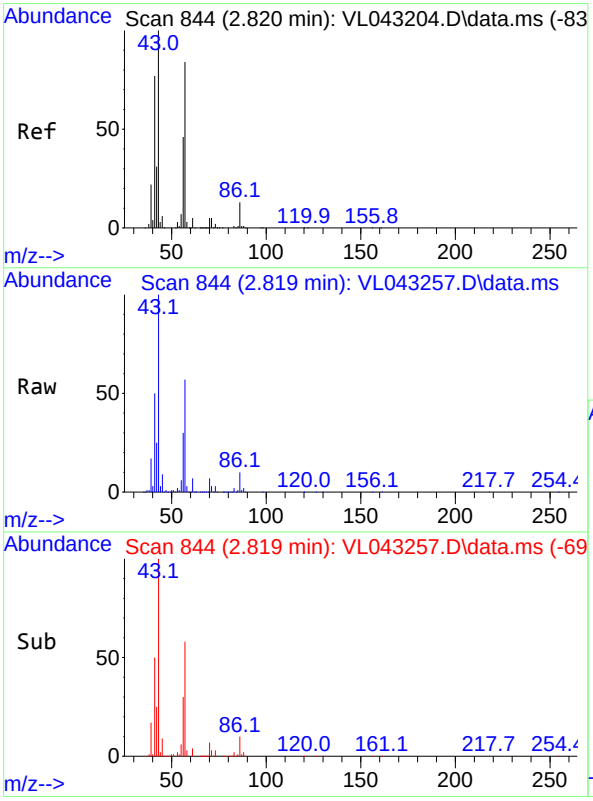
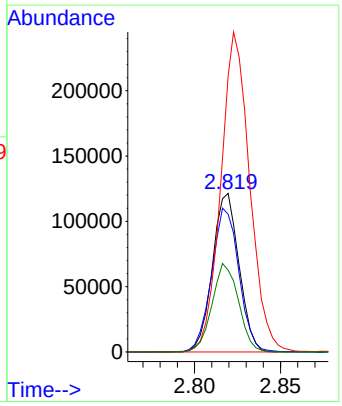
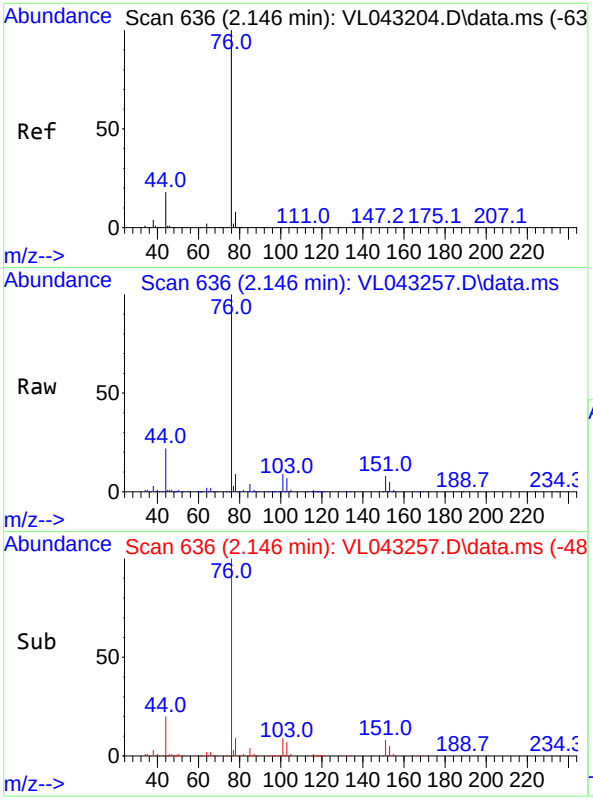


#26
Hexane
Concen: 9.630 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 57 Resp: 130004

Ion	Ratio	Lower	Upper
57	100		
41	94.0	74.6	111.8
43	220.7	179.0	268.4
56	55.6	42.3	63.5

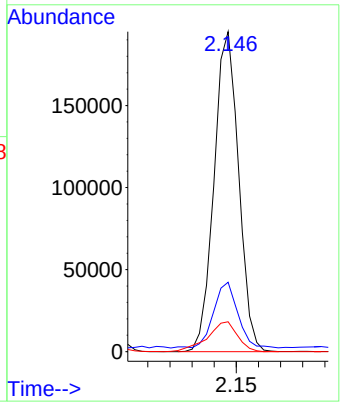




#27
Carbon Disulfide
Concen: 10.920 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 76 Resp: 15049

Ion	Ratio	Lower	Upper
76	100		
44	20.6	16.1	24.1
78	11.4	9.6	14.4



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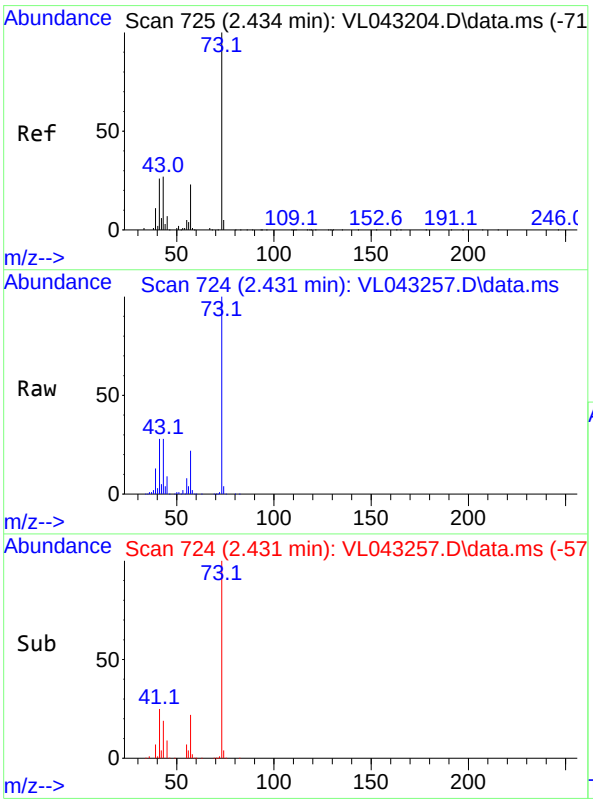
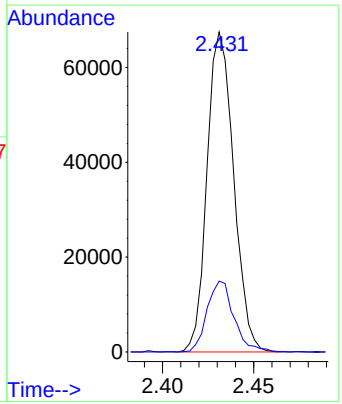
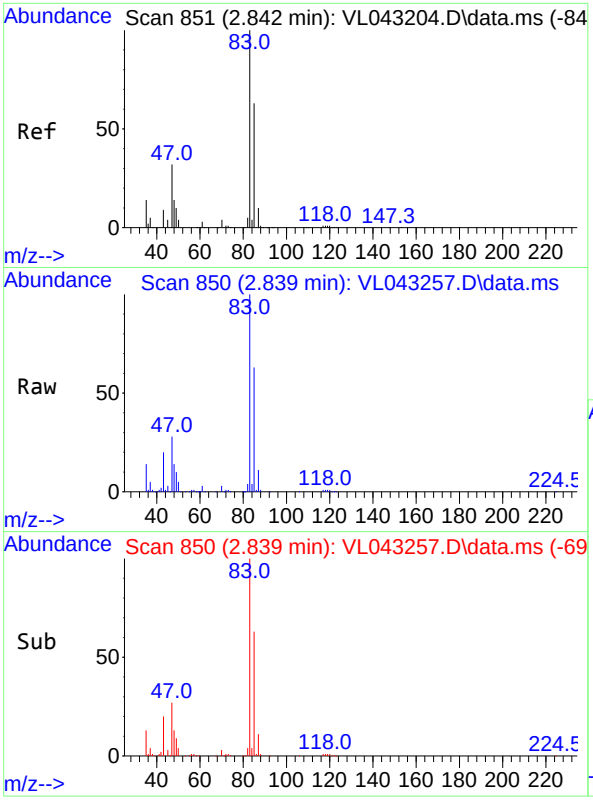


#28
Methyl tert-Butyl Ether
Concen: 10.352 ppbv
RT: 2.431 min Scan# 724
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 73 Resp: 68600

Ion	Ratio	Lower	Upper
73	100		
57	22.4	19.8	29.8

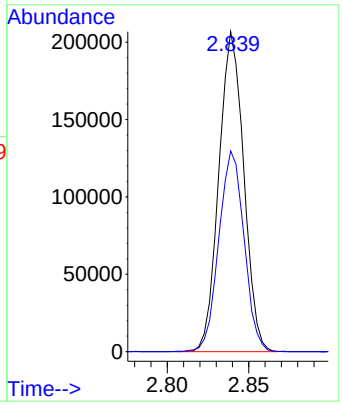




#29
Chloroform
Concen: 11.429 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 83 Resp: 21929

Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.5	75.7



Instrument :
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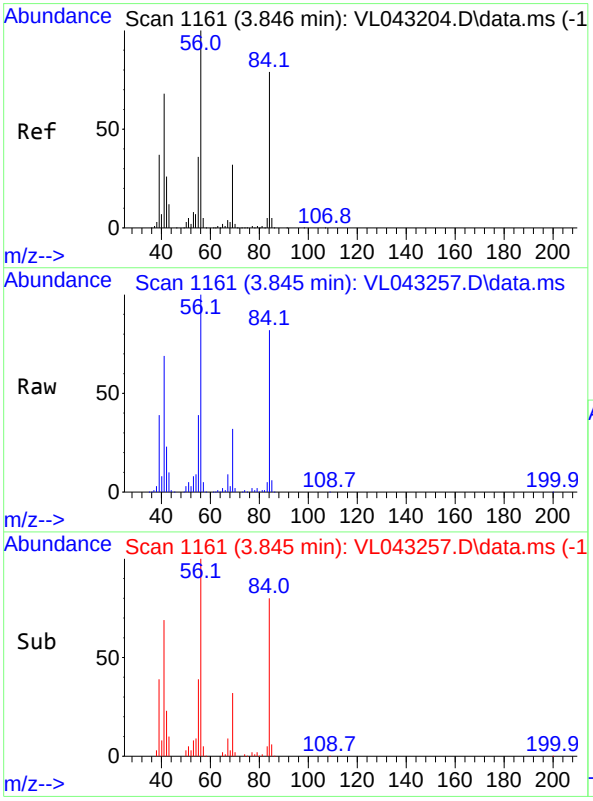
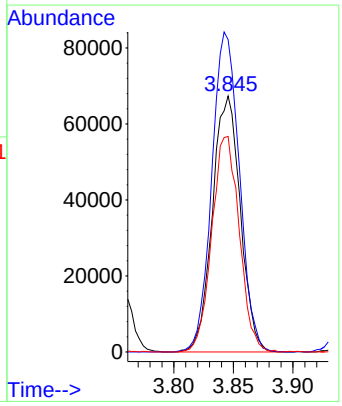
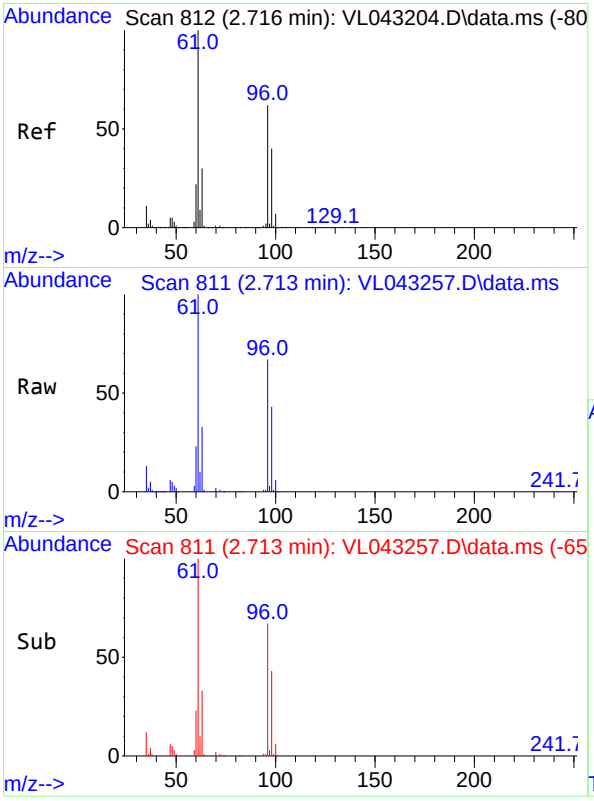


#30
Cyclohexane
Concen: 9.685 ppbv
RT: 3.845 min Scan# 1161
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 84 Resp: 109617

Ion	Ratio	Lower	Upper
84	100		
56	123.4	104.7	157.1
41	82.9	69.0	103.6

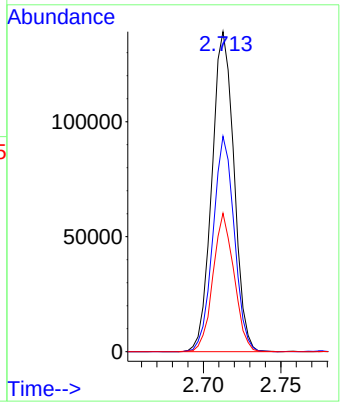




#31
cis-1,2-Dichloroethene
Concen: 10.277 ppbv
RT: 2.713 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 61 Resp: 13789

Ion	Ratio	Lower	Upper
61	100		
96	67.3	49.3	73.9
98	43.2	32.1	48.1



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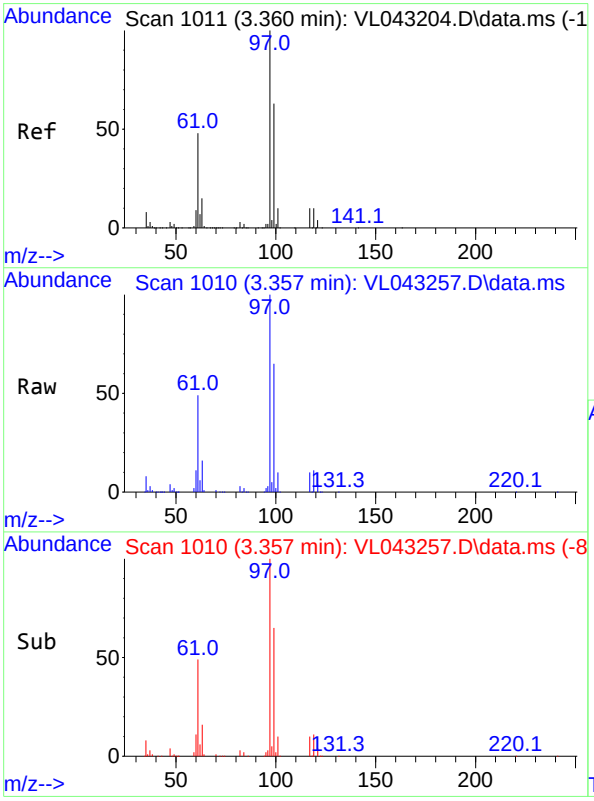
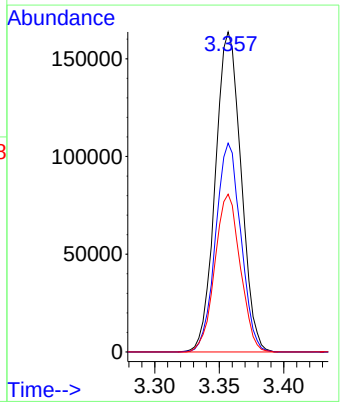
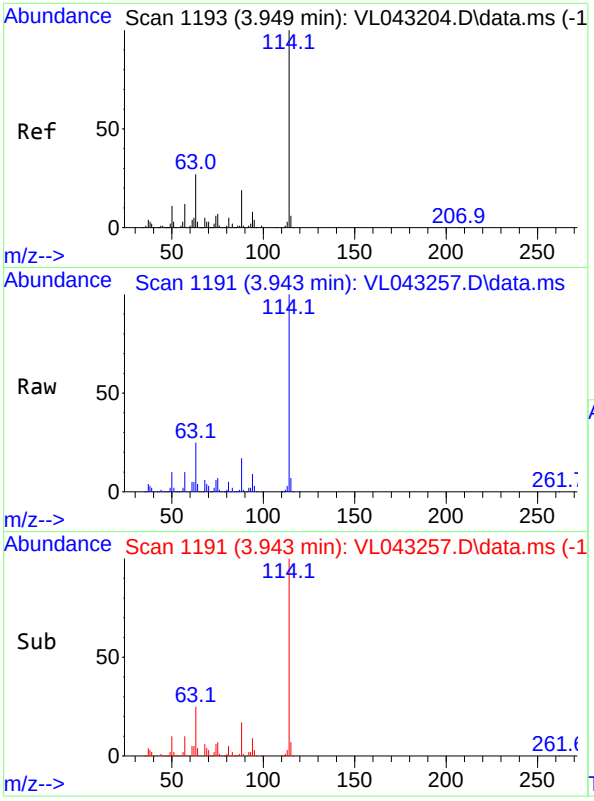


#32
1,1,1-Trichloroethane
Concen: 11.079 ppbv
RT: 3.357 min Scan# 1010
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 97 Resp: 226600

Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.3	75.5
61	48.8	38.9	58.3

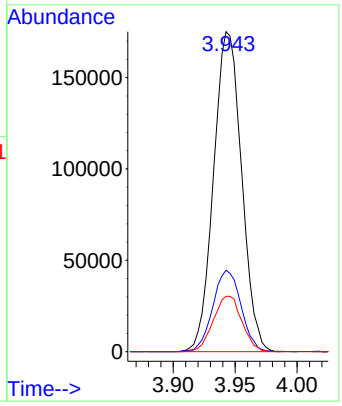




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:114 Resp: 27559

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



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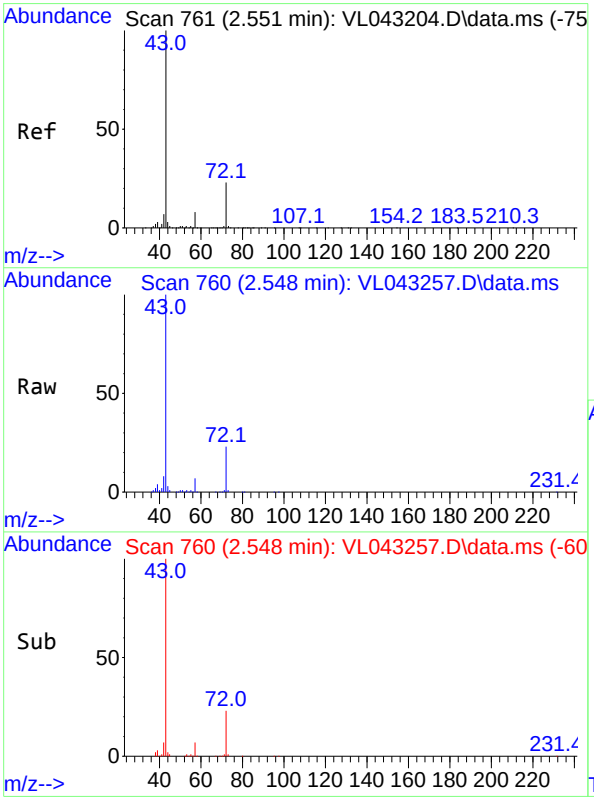
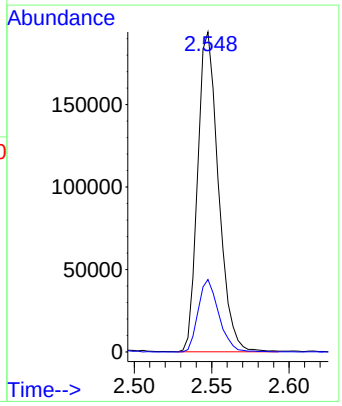
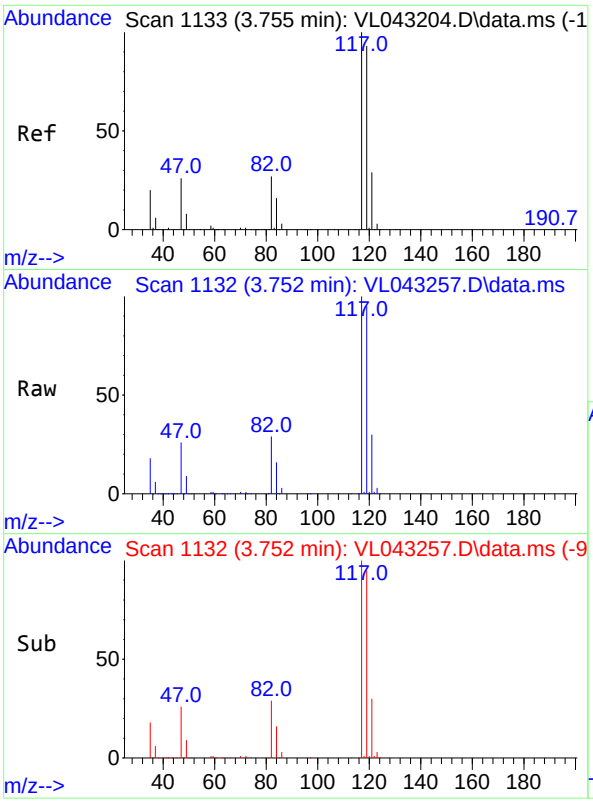


#34
2-Butanone
Concen: 9.303 ppbv
RT: 2.548 min Scan# 760
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 43 Resp: 180979

Ion	Ratio	Lower	Upper
43	100		
72	22.6	18.1	27.1

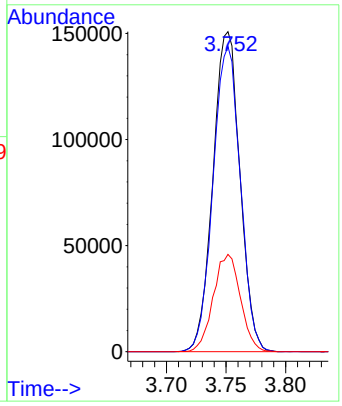




#35
Carbon Tetrachloride
Concen: 11.356 ppbv
RT: 3.752 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:117 Resp: 23754

Ion	Ratio	Lower	Upper
117	100		
119	95.3	74.6	112.0
121	30.4	23.2	34.8



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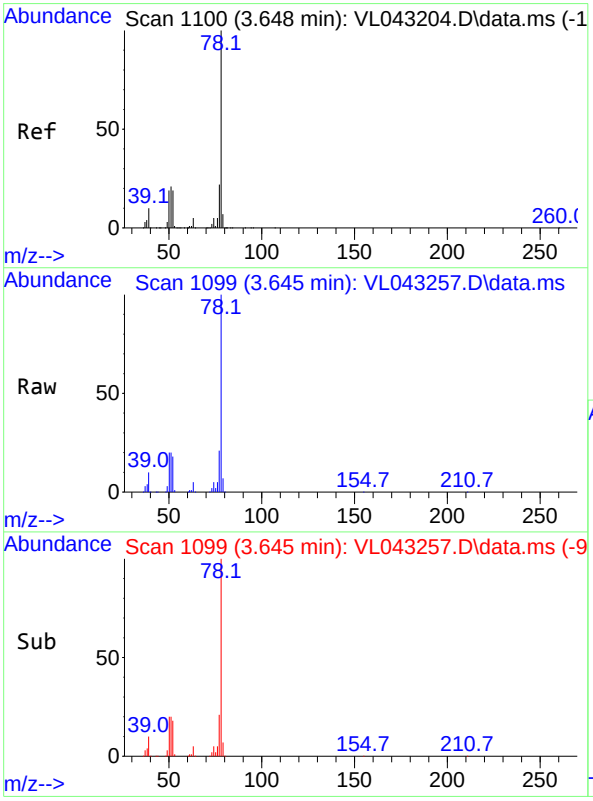
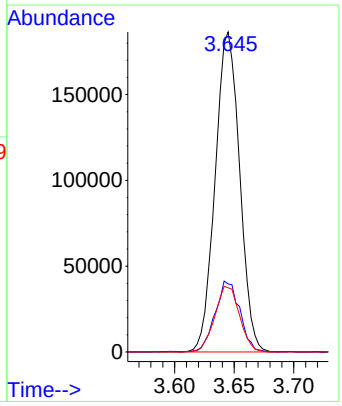
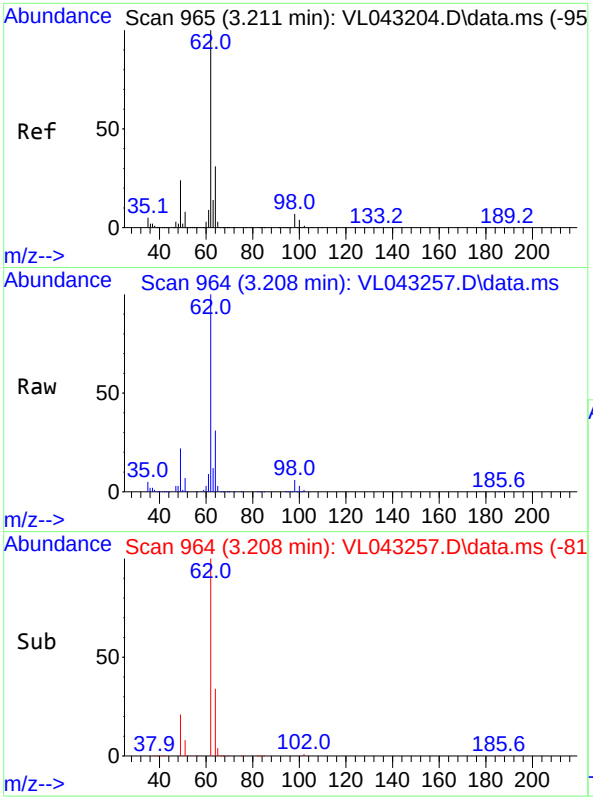


#36
Benzene
Concen: 10.078 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 78 Resp: 265981

Ion	Ratio	Lower	Upper
78	100		
77	21.3	17.5	26.3
50	20.0	15.5	23.3

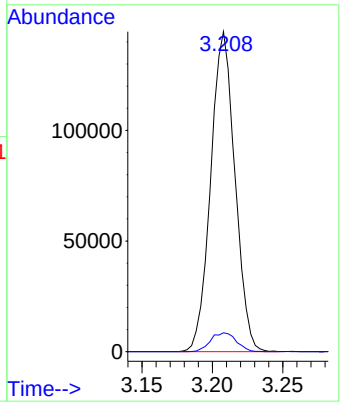




#37
1,2-Dichloroethane
Concen: 11.229 ppbv
RT: 3.208 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 62 Resp: 17334

Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.5	8.3



Instrument :
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ClientSampleId :
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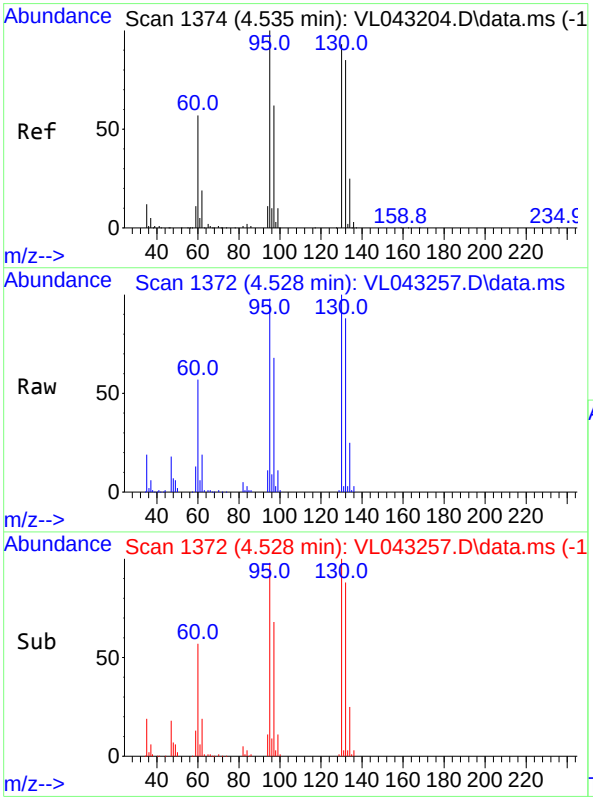
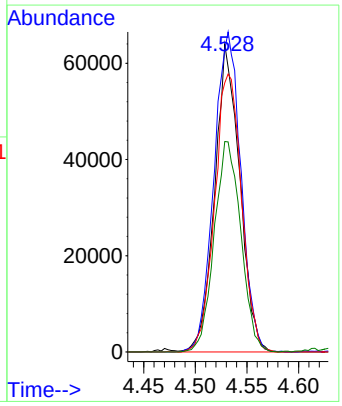
Supervised By :Mahesh Dadoda 11/21/2025

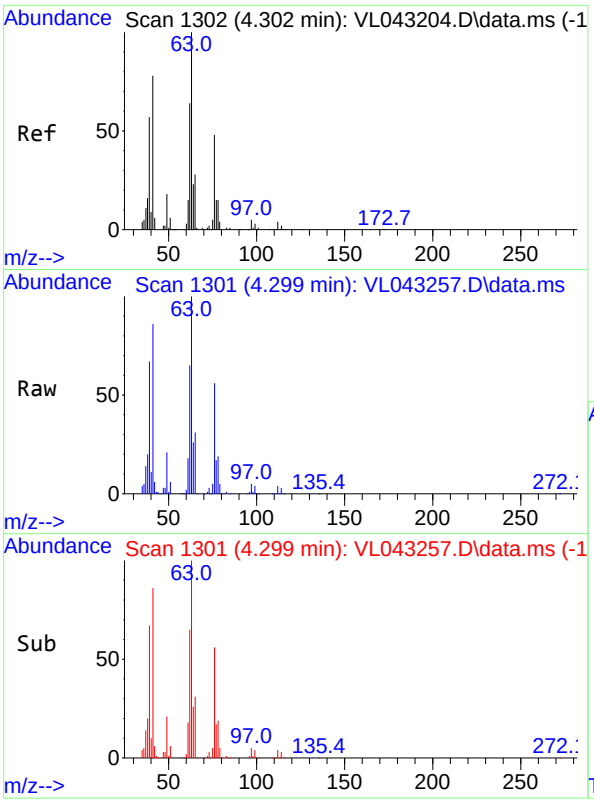


#38
Trichloroethene
Concen: 10.447 ppbv
RT: 4.528 min Scan# 1372
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:130 Resp: 107877

Ion	Ratio	Lower	Upper
130	100		
95	98.2	85.7	128.5
132	87.6	73.4	110.0
97	68.4	52.7	79.1

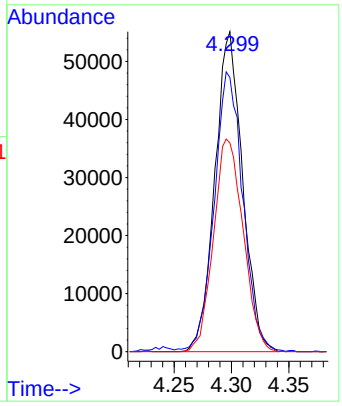




#39
1,2-Dichloropropane
Concen: 9.571 ppbv
RT: 4.299 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 63 Resp: 9245

Ion	Ratio	Lower	Upper
63	100		
41	84.9	62.6	93.8
62	65.3	51.0	76.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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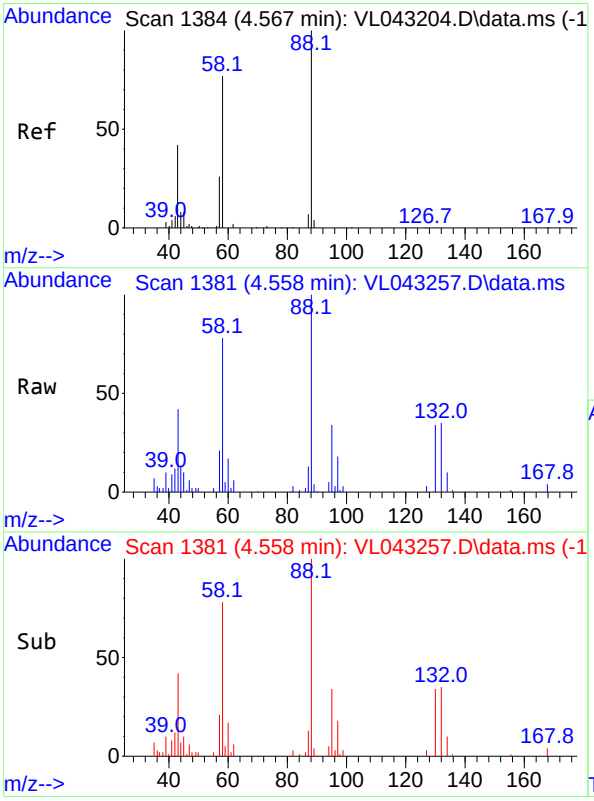
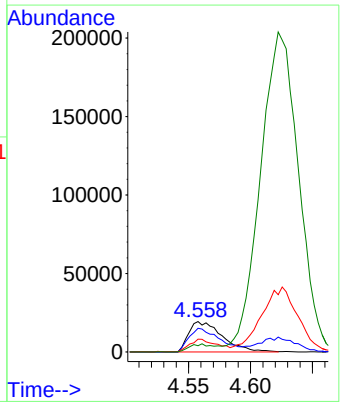
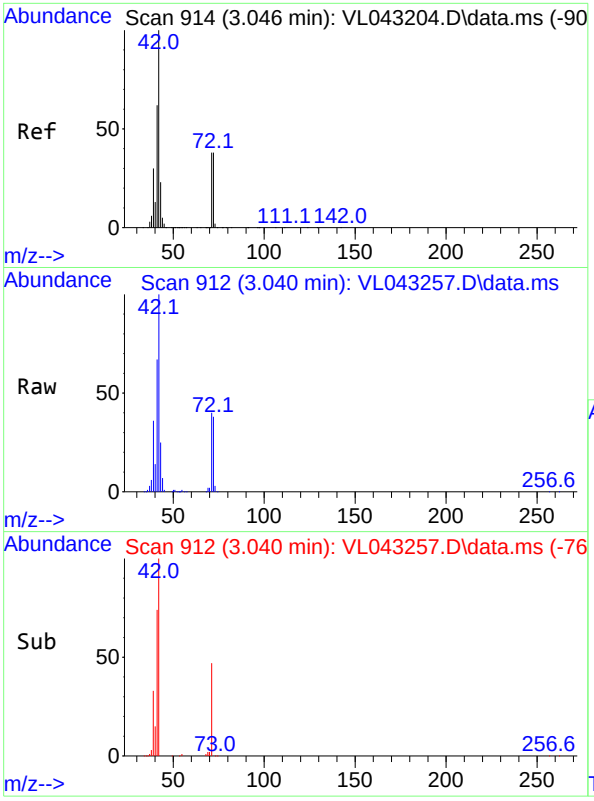


#40
1,4-Dioxane
Concen: 8.418 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. -0.010 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 88 Resp: 36555

Ion	Ratio	Lower	Upper
88	100		
58	71.5	63.0	94.6
43	35.1	32.5	48.7
57	0.0	0.0	0.0

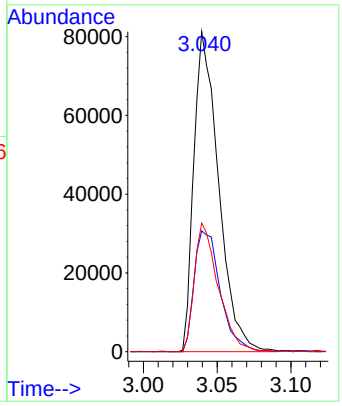




#41
Tetrahydrofuran
Concen: 8.822 ppbv
RT: 3.040 min Scan# 9
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 42 Resp: 9477

Ion	Ratio	Lower	Upper
42	100		
72	39.9	30.6	46.0
71	39.0	30.5	45.7



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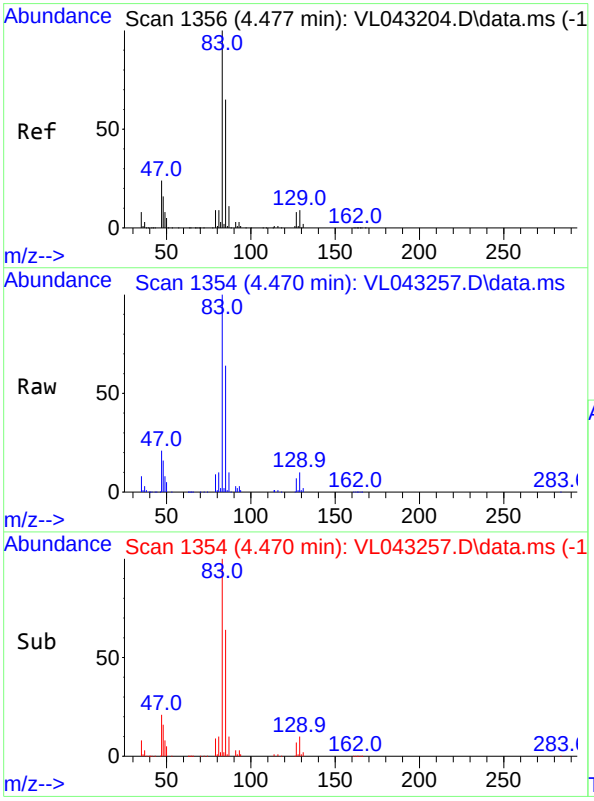
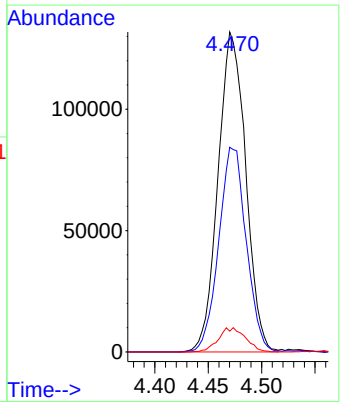
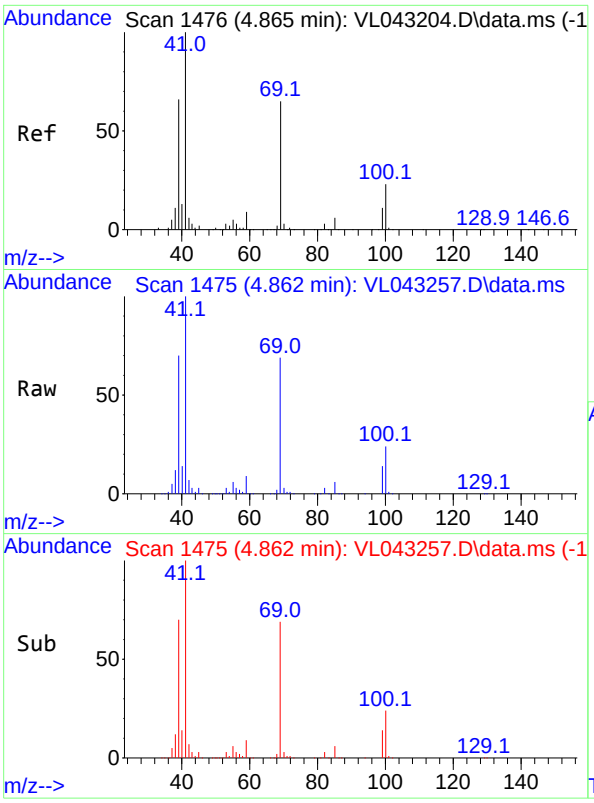


#42
Bromodichloromethane
Concen: 11.152 ppbv
RT: 4.470 min Scan# 1354
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 83 Resp: 237498

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.7	77.5
127	6.5	6.3	9.5

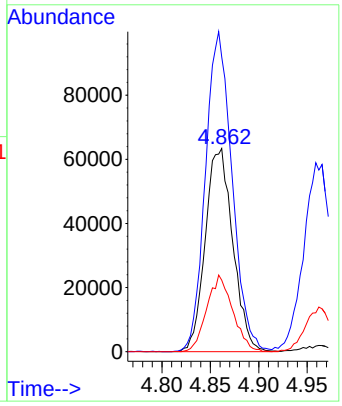




#43
Methyl Methacrylate
Concen: 8.957 ppbv
RT: 4.862 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 69 Resp: 12548

Ion	Ratio	Lower	Upper
69	100		
41	152.5	126.7	190.1
100	35.4	28.6	43.0



Instrument :
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ClientSampleId :
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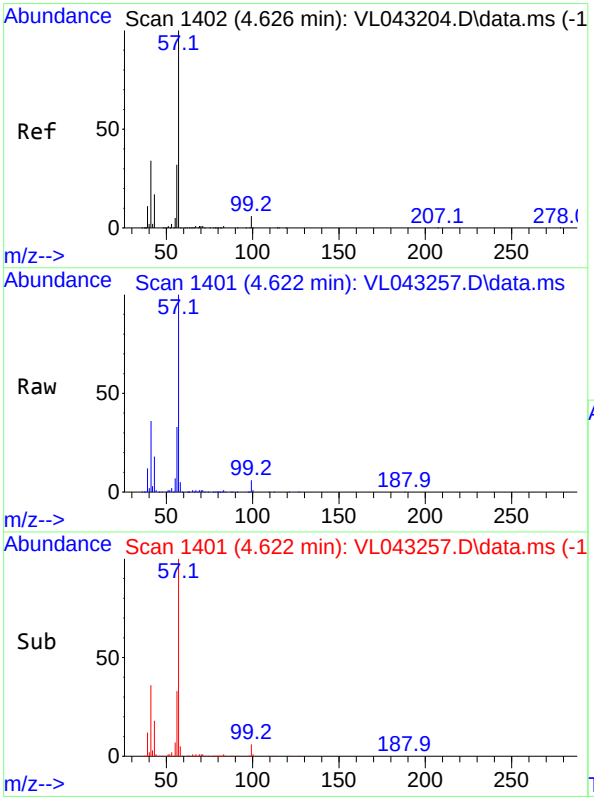
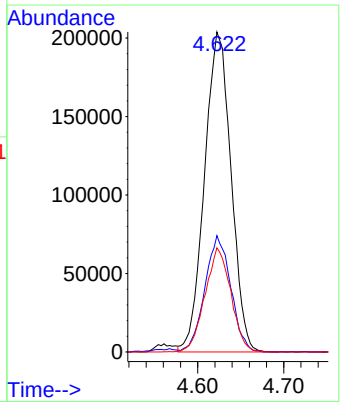
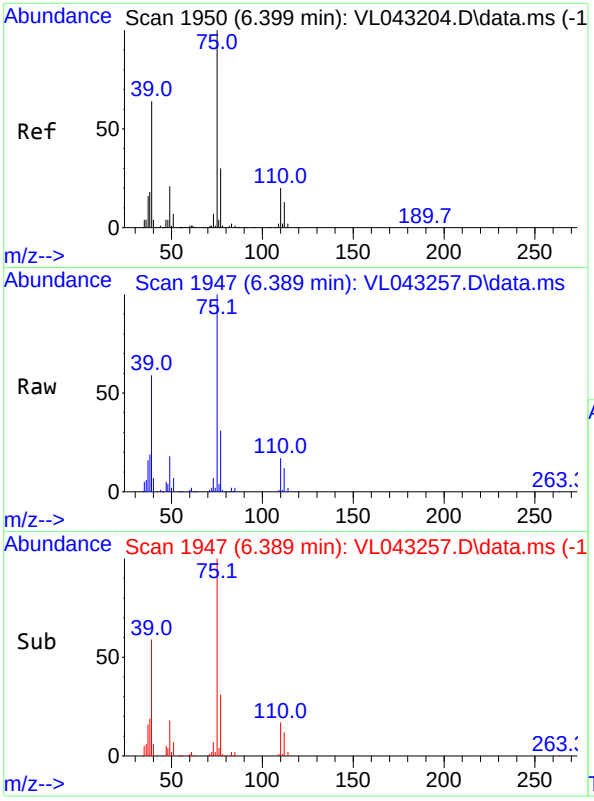


#44
2,2,4-Trimethylpentane
Concen: 9.643 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 57 Resp: 437108

Ion	Ratio	Lower	Upper
57	100		
41	36.3	28.0	42.0
56	31.7	25.6	38.4

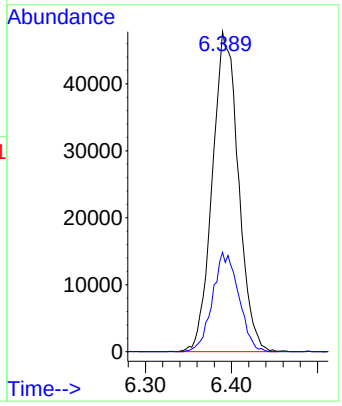




#45
t-1,3-Dichloropropene
Concen: 7.675 ppbv
RT: 6.389 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 75 Resp: 10023

Ion	Ratio	Lower	Upper
75	100		
77	31.0	24.3	36.5



Instrument :
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ClientSampleId :
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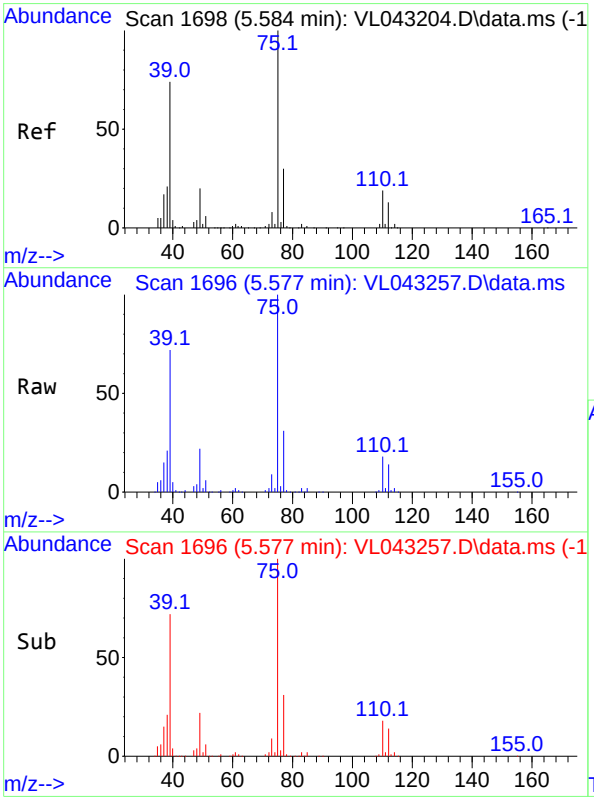
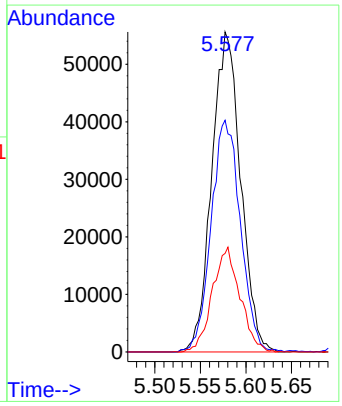
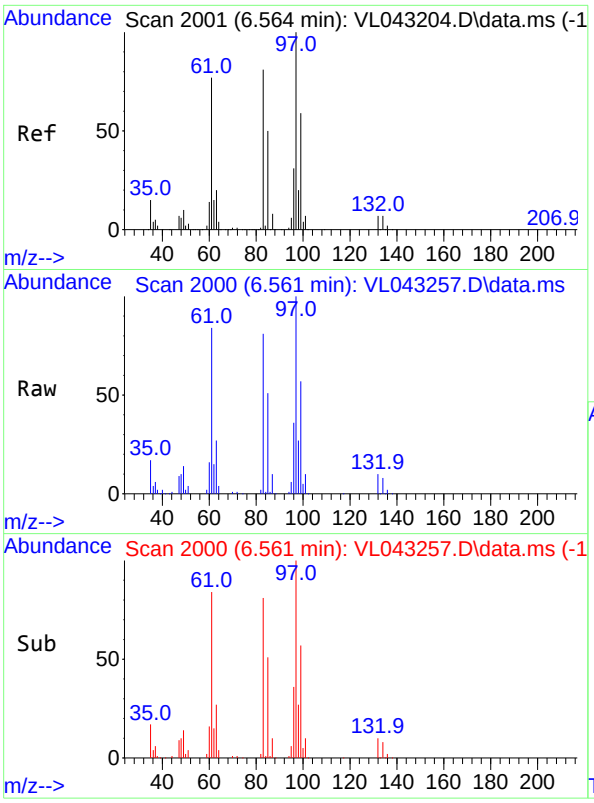


#46
cis-1,3-Dichloropropene
Concen: 7.989 ppbv
RT: 5.577 min Scan# 1696
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 75 Resp: 122504

Ion	Ratio	Lower	Upper
75	100		
39	72.3	59.1	88.7
77	30.8	24.2	36.2

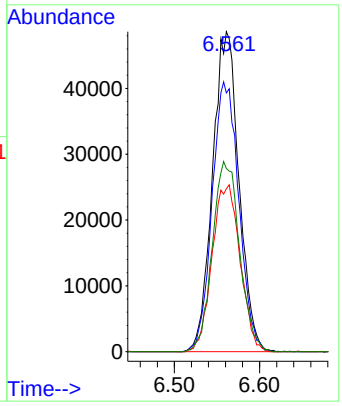




#47
1,1,2-Trichloroethane
Concen: 10.190 ppbv m
RT: 6.561 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 97 Resp: 10446

Ion	Ratio	Lower	Upper
97	100		
83	80.8	64.6	97.0
85	50.9	39.4	59.2
99	57.3	47.0	70.6



Instrument :
MSVOA_L
ClientSampleId :
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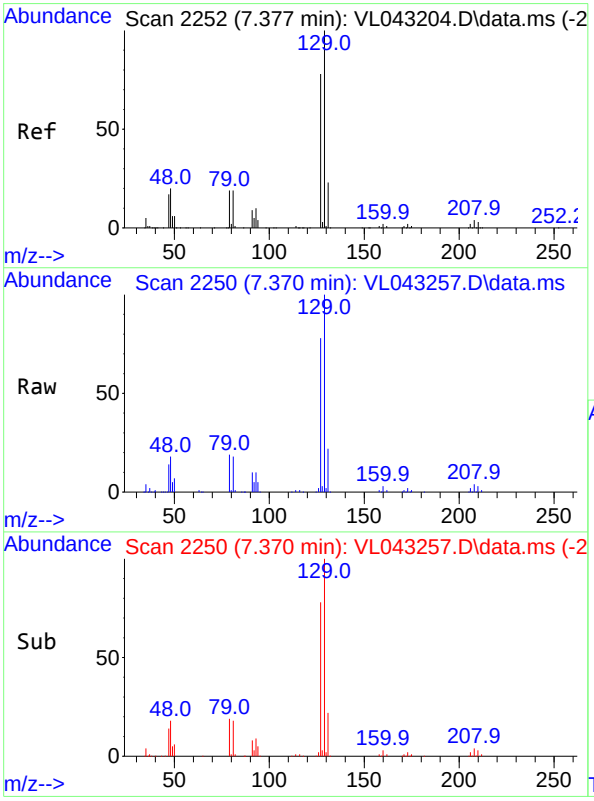
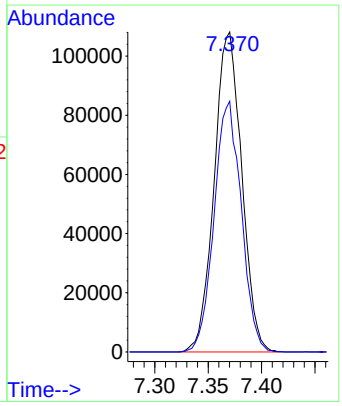
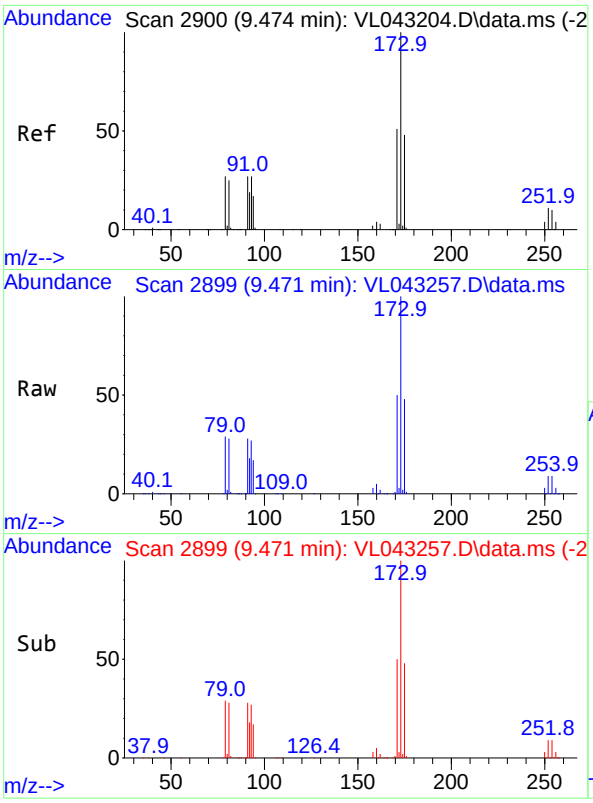


#48
Dibromochloromethane
Concen: 10.997 ppbv
RT: 7.370 min Scan# 2250
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:129 Resp: 193819

Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.3	117.9

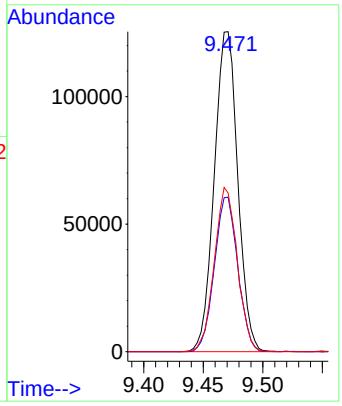




#49
Bromoform
Concen: 10.994 ppbv
RT: 9.471 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:173 Resp: 17164

Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.6	58.0
171	50.3	40.6	61.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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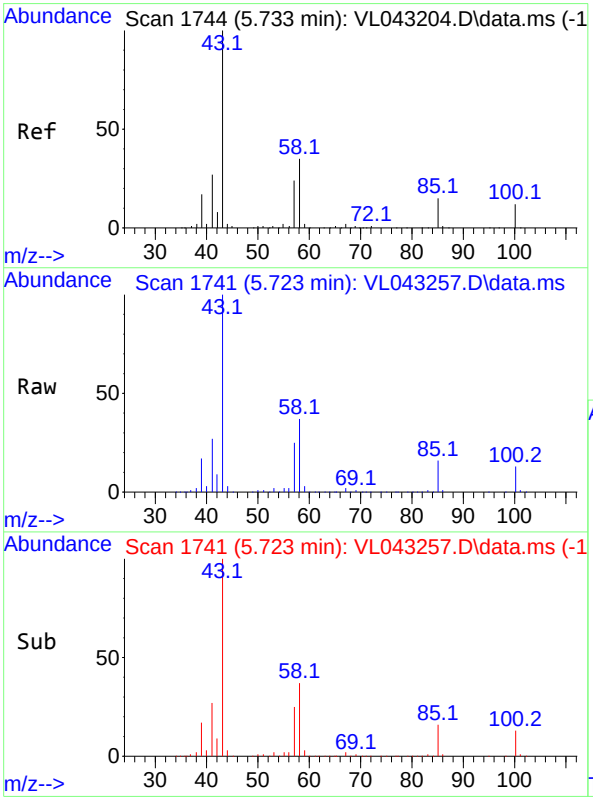
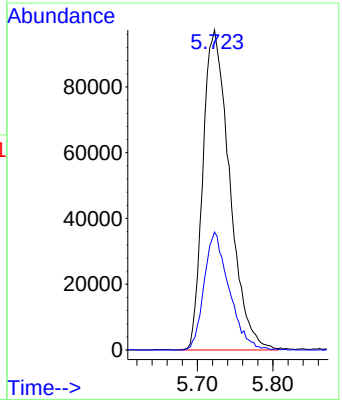
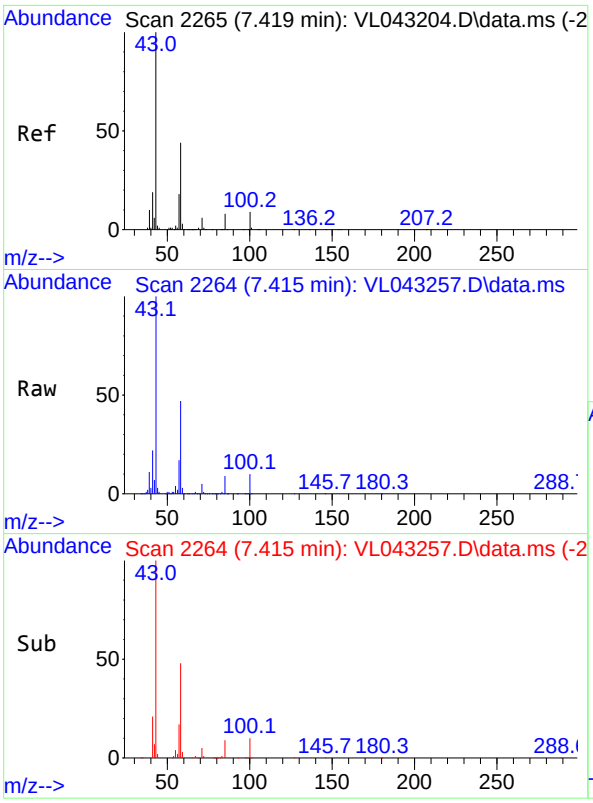


#50
4-Methyl-2-Pentanone
Concen: 8.688 ppbv
RT: 5.723 min Scan# 1741
Delta R.T. -0.010 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 43 Resp: 238084

Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.4	42.6

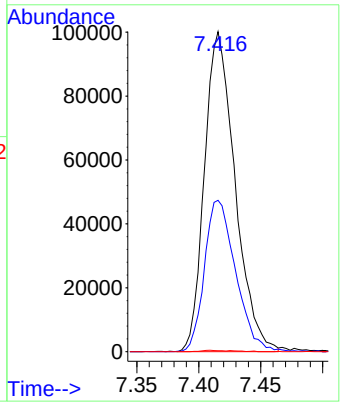




#51
2-Hexanone
Concen: 8.097 ppbv
RT: 7.415 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 43 Resp: 17231

Ion	Ratio	Lower	Upper
43	100		
58	48.3	38.4	57.6
98	0.4	0.0	0.0



Instrument :
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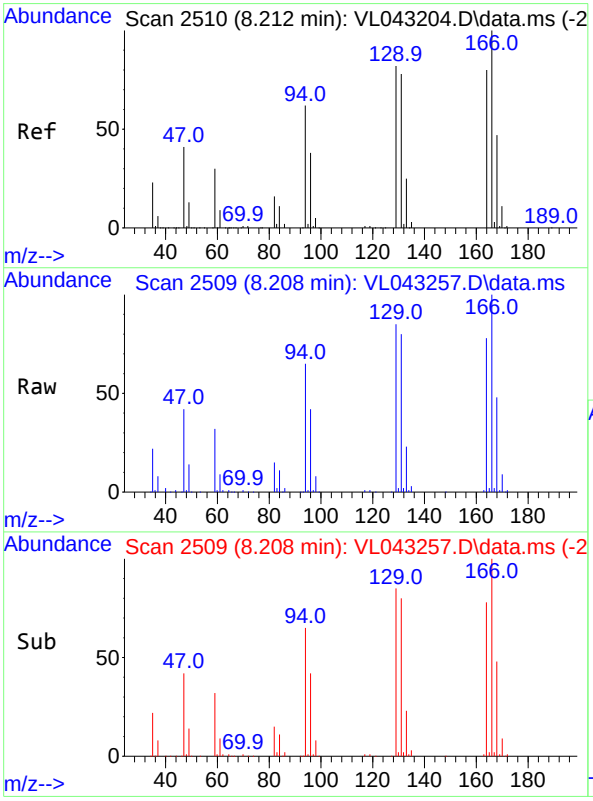
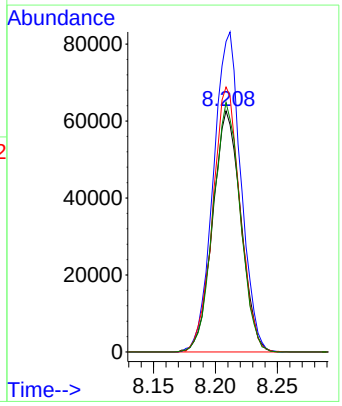
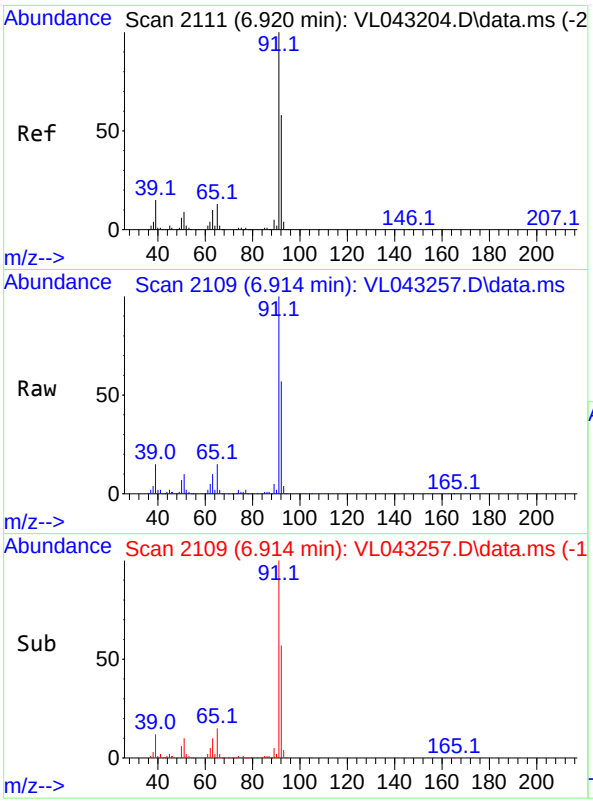


#52
Tetrachloroethene
Concen: 10.097 ppbv
RT: 8.208 min Scan# 2509
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:164 Resp: 99129

Ion	Ratio	Lower	Upper
164	100		
166	128.8	99.4	149.2
129	109.9	81.8	122.8
131	103.5	77.4	116.2

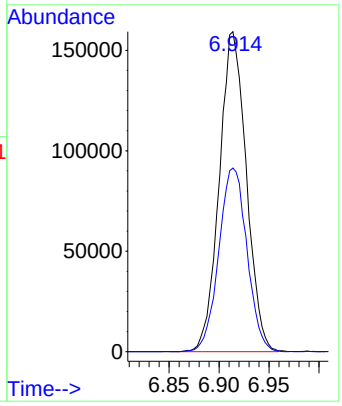




#53
Toluene
Concen: 9.604 ppbv
RT: 6.914 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 91 Resp: 30015

Ion	Ratio	Lower	Upper
91	100		
92	59.7	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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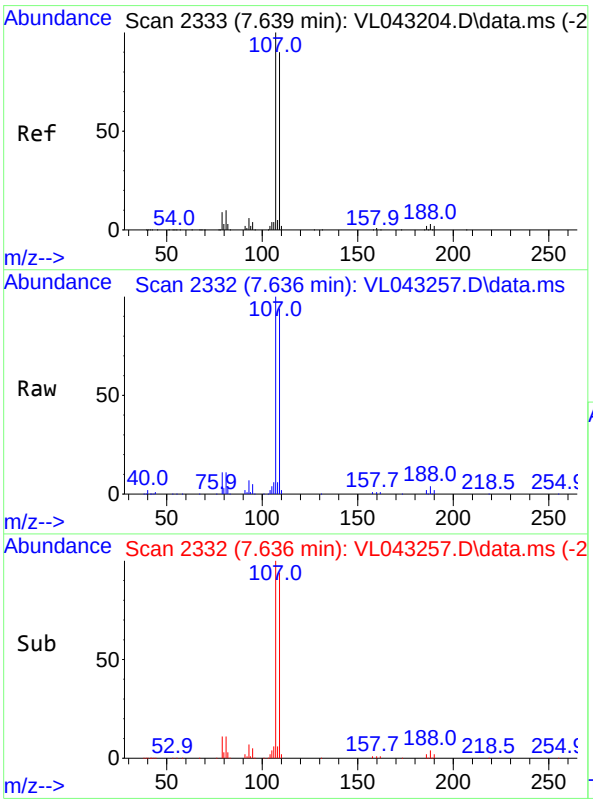
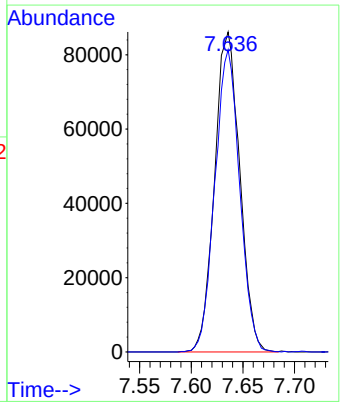
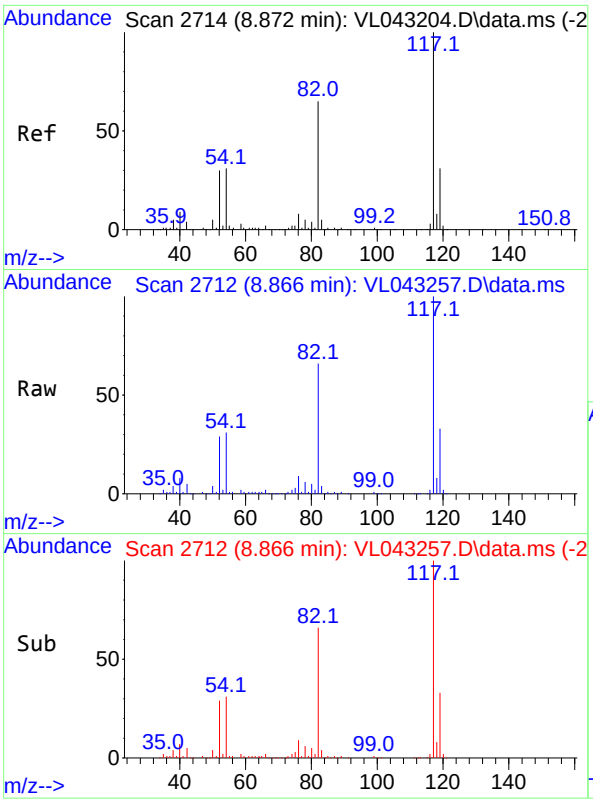


#54
1,2-Dibromoethane
Concen: 9.684 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:107 Resp: 146099

Ion	Ratio	Lower	Upper
107	100		
109	94.4	72.1	108.1

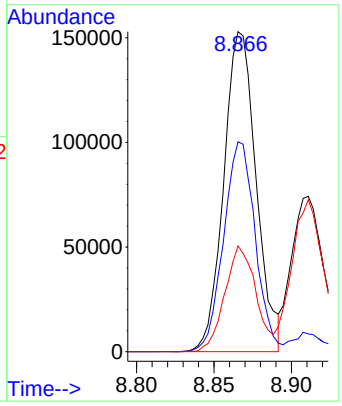




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.866 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:117 Resp: 22277

Ion	Ratio	Lower	Upper
117	100		
82	65.1	56.1	84.1
119	32.7	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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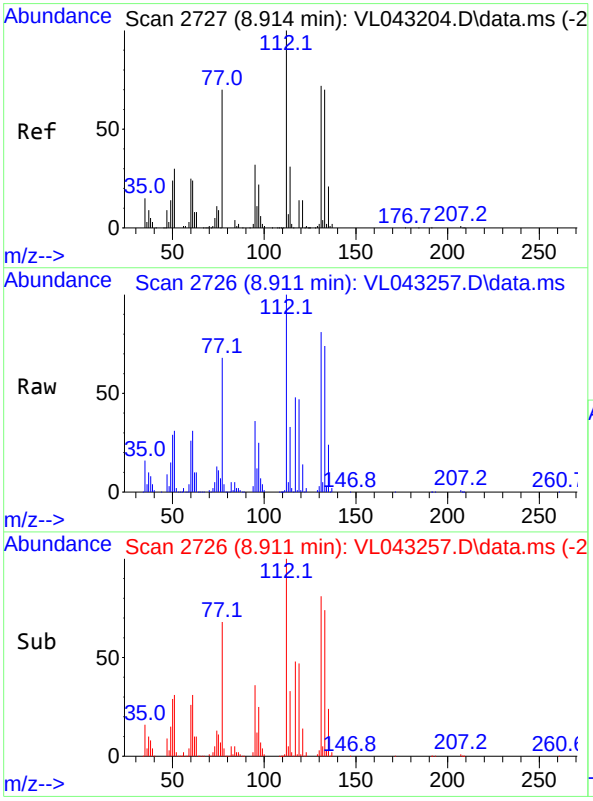
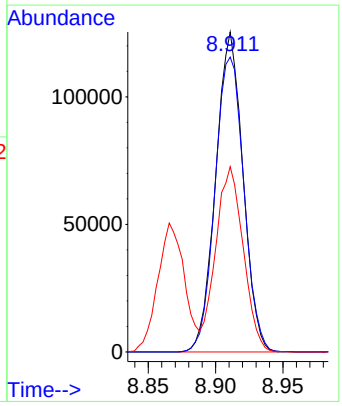
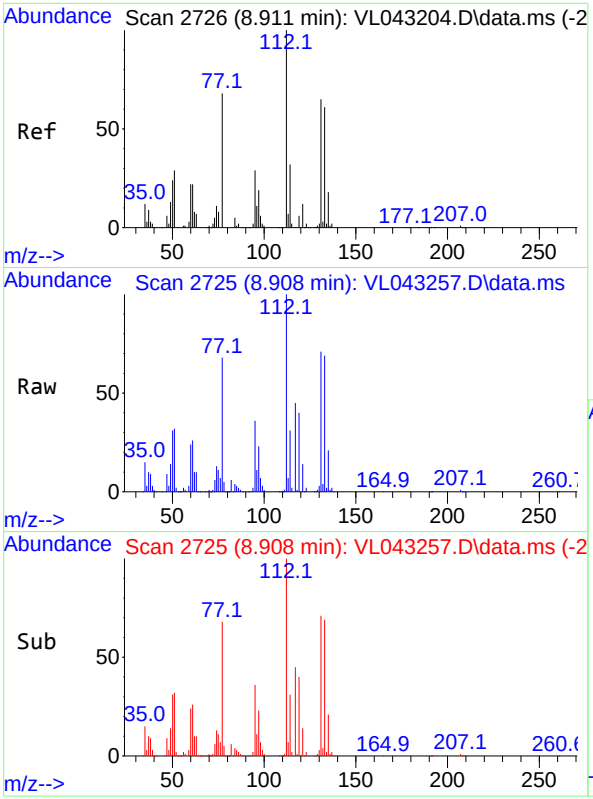


#56
1,1,1,2-Tetrachloroethane
Concen: 10.787 ppbv
RT: 8.911 min Scan# 2726
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:131 Resp: 176606

Ion	Ratio	Lower	Upper
131	100		
133	97.5	77.4	116.2
119	59.3	49.1	73.7

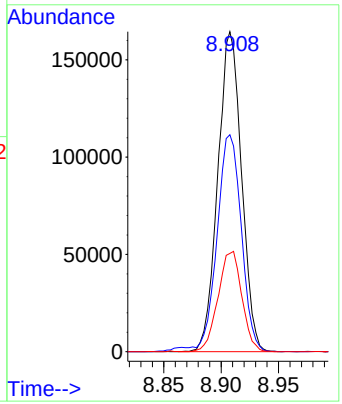




#57
Chlorobenzene
Concen: 10.333 ppbv
RT: 8.908 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:112 Resp: 23634

Ion	Ratio	Lower	Upper
112	100		
77	67.8	55.5	83.3
114	30.7	29.1	35.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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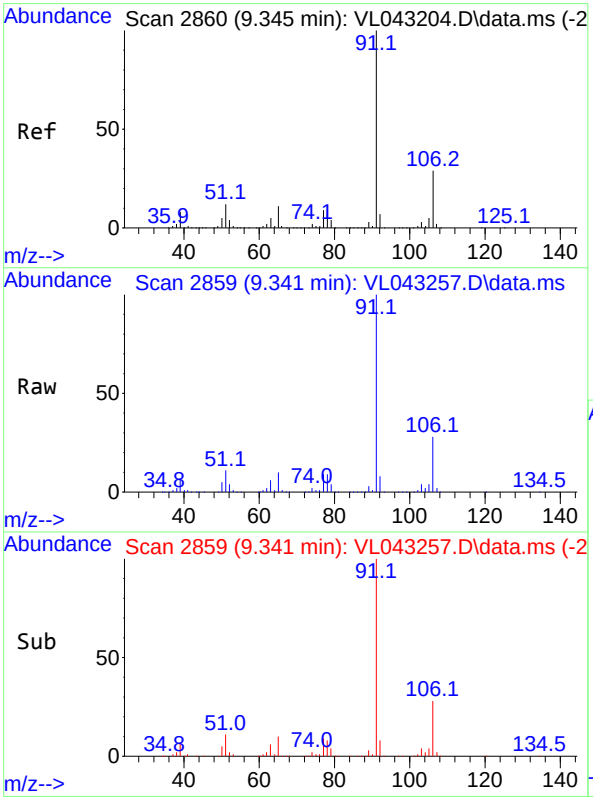
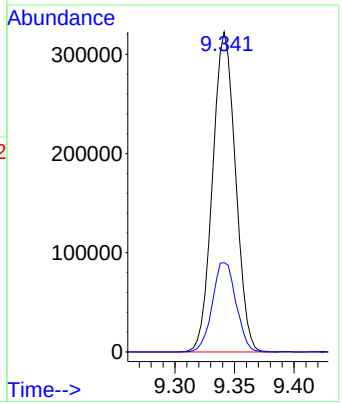
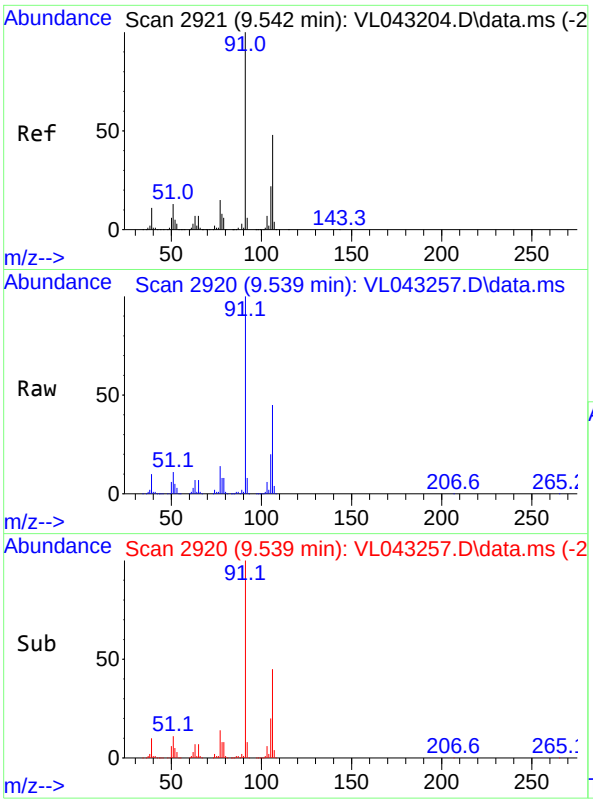


#58
Ethyl Benzene
Concen: 10.037 ppbv
RT: 9.341 min Scan# 2859
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 91 Resp: 430385

Ion	Ratio	Lower	Upper
91	100		
106	27.9	22.8	34.2

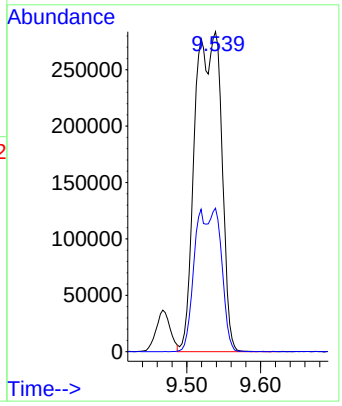




#59
m/p-Xylene
Concen: 20.635 ppbv m
RT: 9.539 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 91 Resp: 70937

Ion	Ratio	Lower	Upper
91	100		
106	44.3	36.1	54.1



Instrument :
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ClientSampleId :
VSTDCCC010

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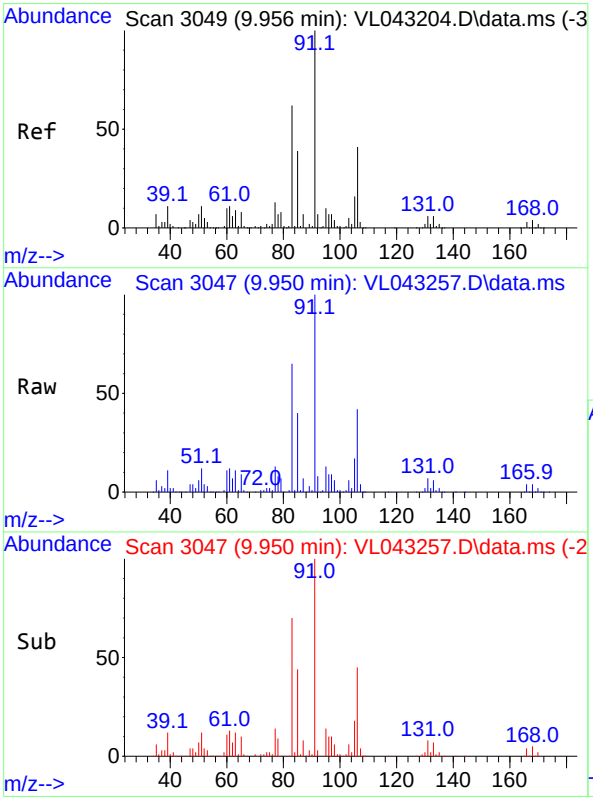
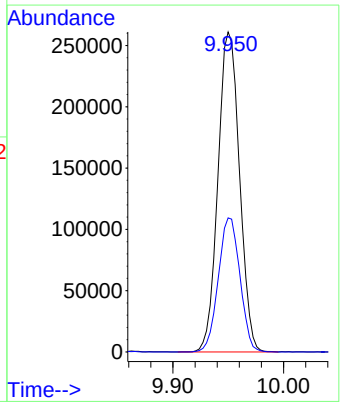
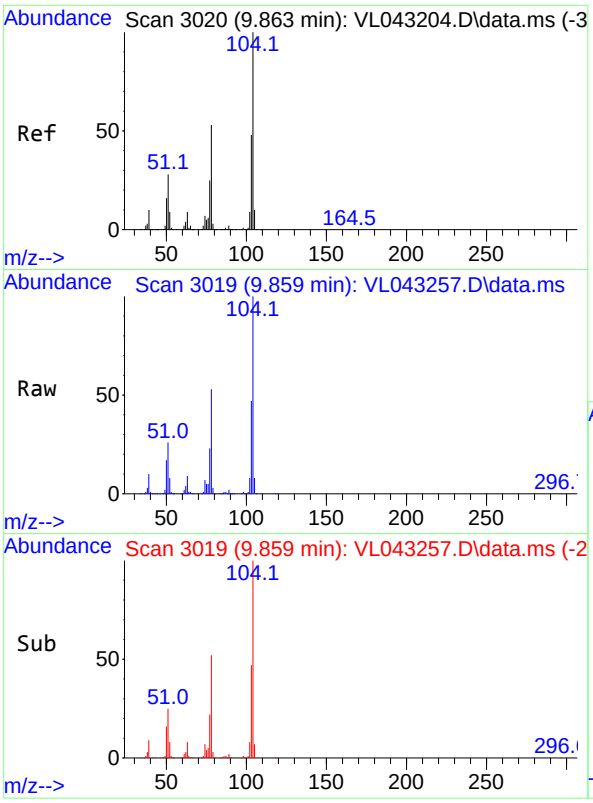


#60
o-Xylene
Concen: 10.284 ppbv
RT: 9.950 min Scan# 3047
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 91 Resp: 353166

Ion	Ratio	Lower	Upper
91	100		
106	42.1	20.9	62.8

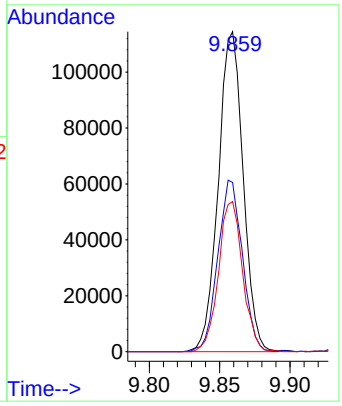




#61
Styrene
Concen: 9.353 ppbv
RT: 9.859 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:104 Resp: 14057

Ion	Ratio	Lower	Upper
104	100		
78	53.2	42.1	63.1
103	45.7	37.2	55.8



Instrument :
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ClientSampleId :
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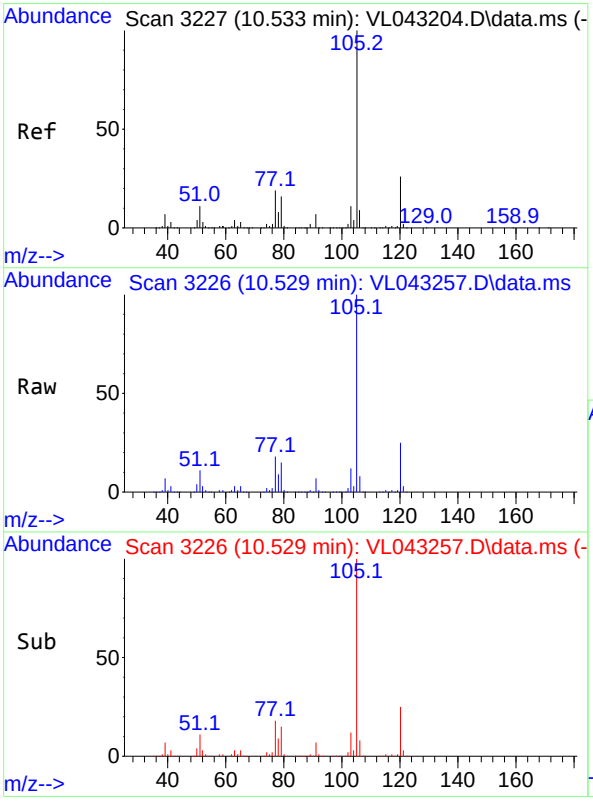
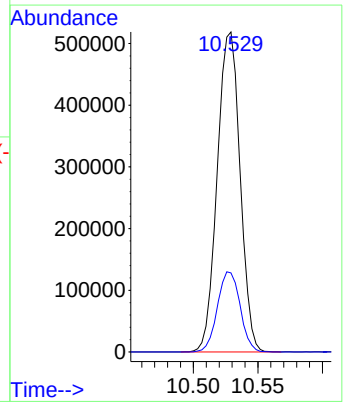
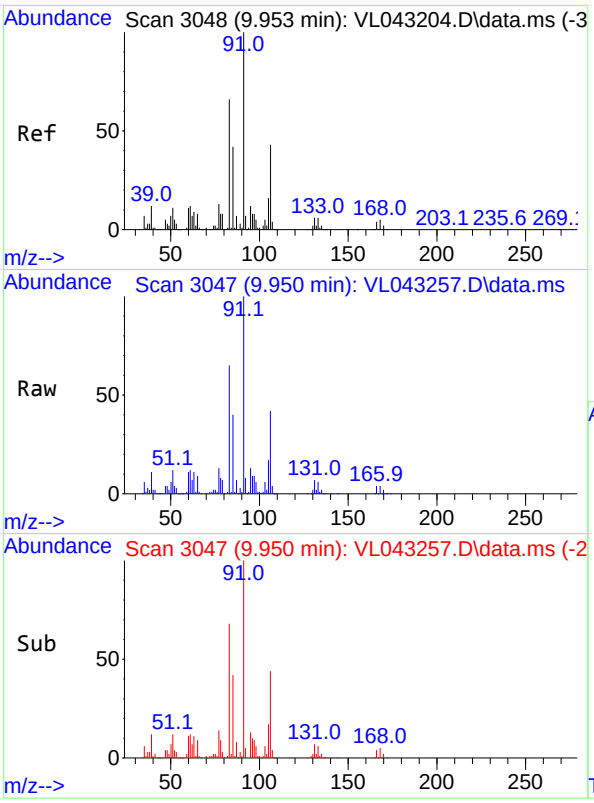


#62
Isopropylbenzene
Concen: 10.379 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:105 Resp: 637682

Ion	Ratio	Lower	Upper
105	100		
120	24.9	19.8	29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 9.817 ppbv
RT: 9.950 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 83 Resp: 21452

Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.8	14.3
85	63.9	31.9	95.9

Instrument :
MSVOA_L
ClientSampleId :
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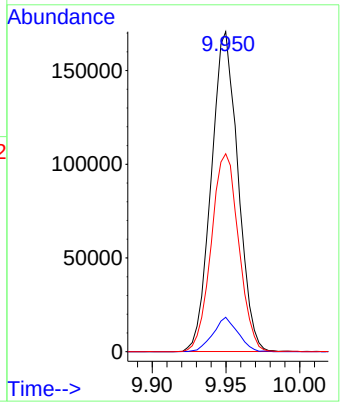
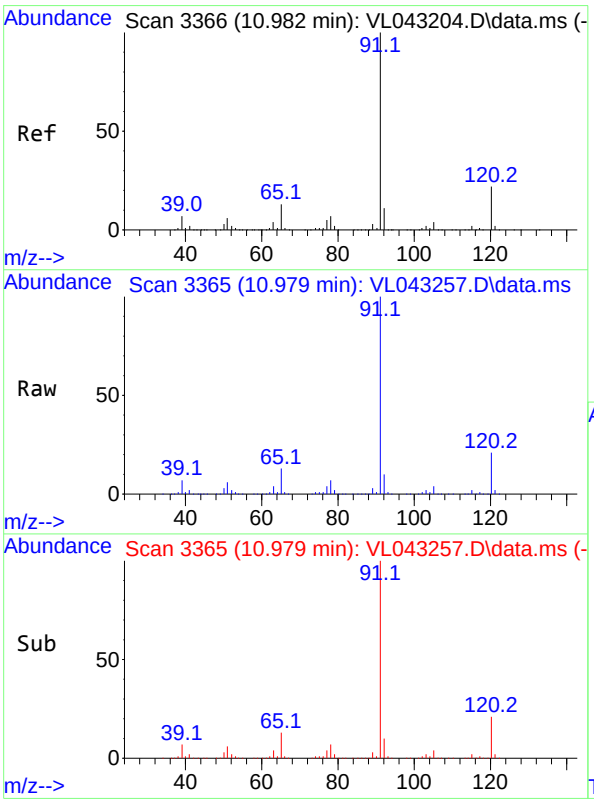
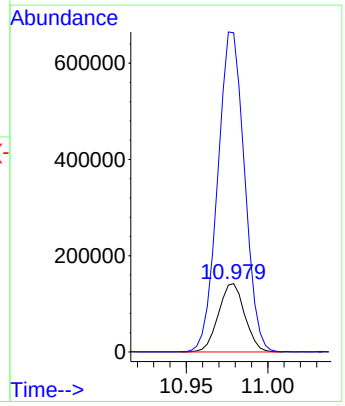


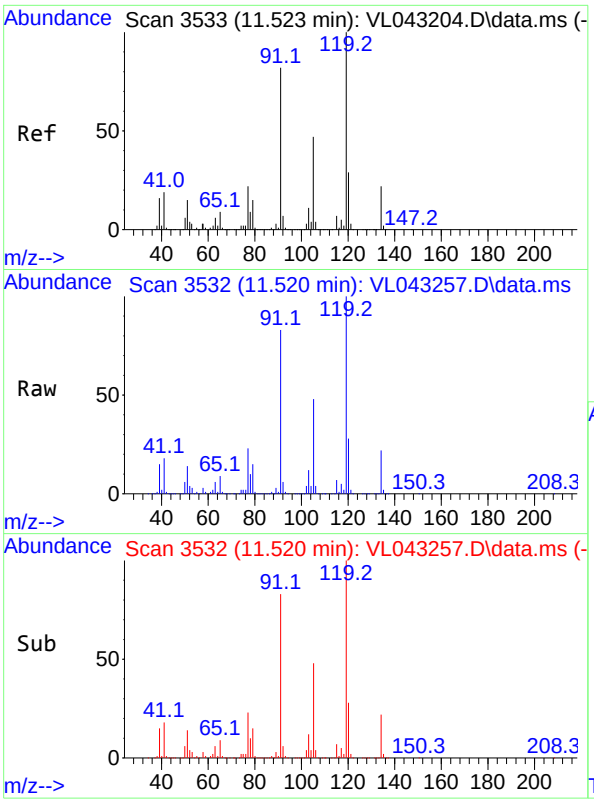


#64
n-propylbenzene
Concen: 10.052 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:120 Resp: 158685

Ion	Ratio	Lower	Upper
120	100		
91	479.0	377.1	565.7

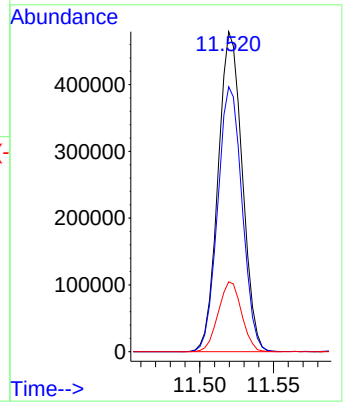




#65
tert-Butylbenzene
Concen: 9.932 ppbv
RT: 11.520 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:119 Resp: 54495

Ion	Ratio	Lower	Upper
119	100		
91	83.7	65.3	97.9
134	21.1	17.0	25.4



Instrument :
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ClientSampleId :
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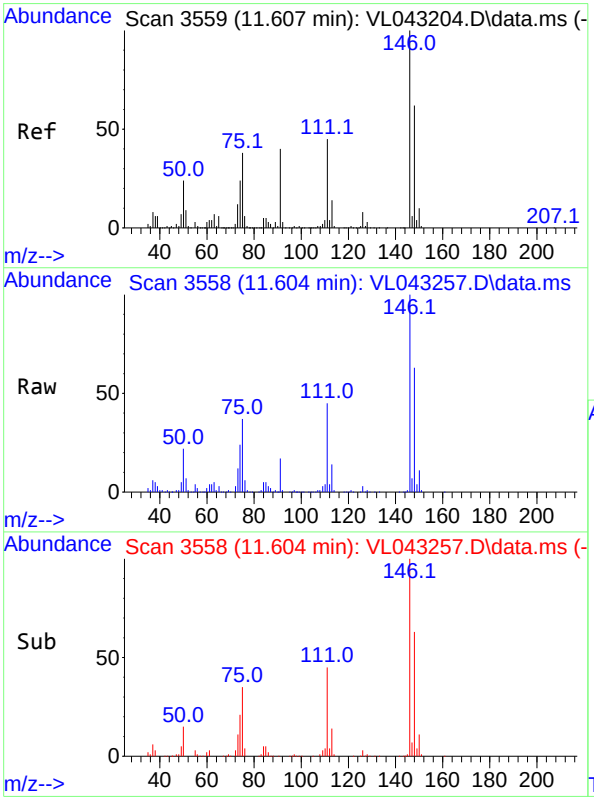
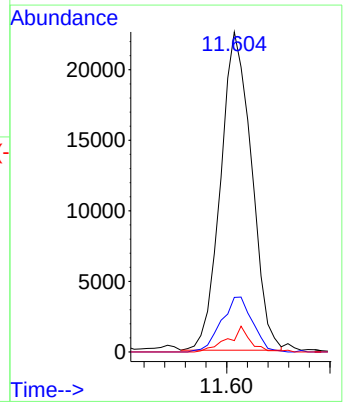
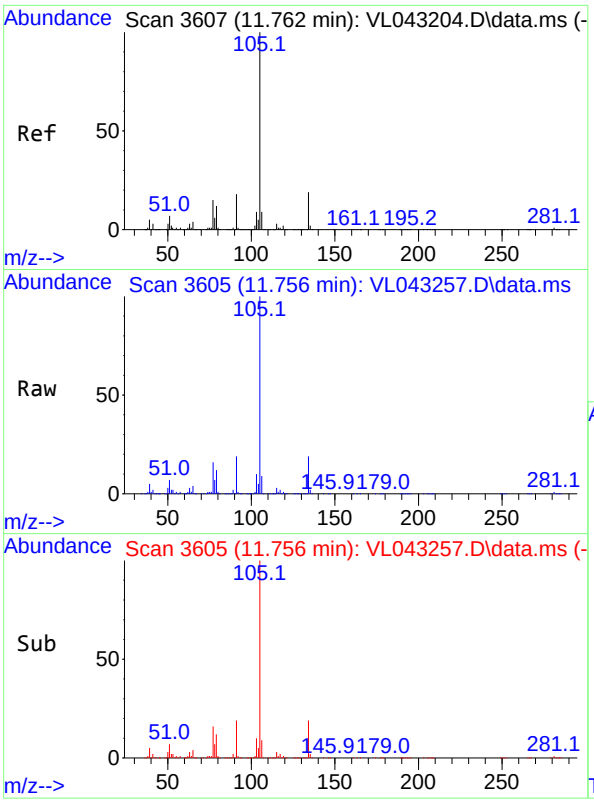


#66
Benzyl Chloride
Concen: 4.210 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 91 Resp: 23441

Ion	Ratio	Lower	Upper
91	100		
126	17.5	14.4	21.6
128	6.0	4.6	6.8

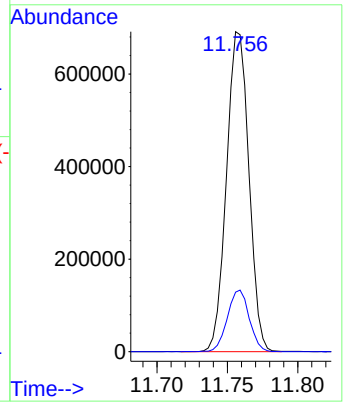




#67
sec-Butylbenzene
Concen: 9.982 ppbv
RT: 11.756 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:105 Resp: 76452

Ion	Ratio	Lower	Upper
105	100		
134	18.8	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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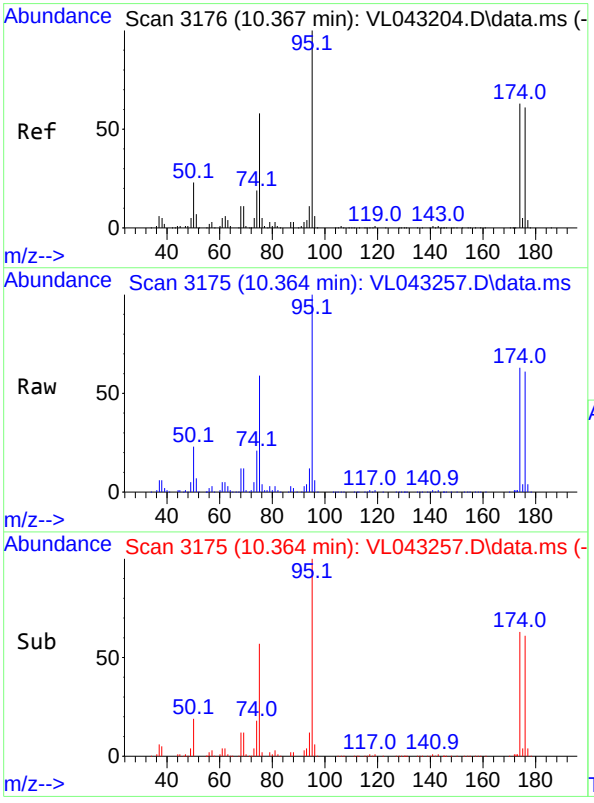
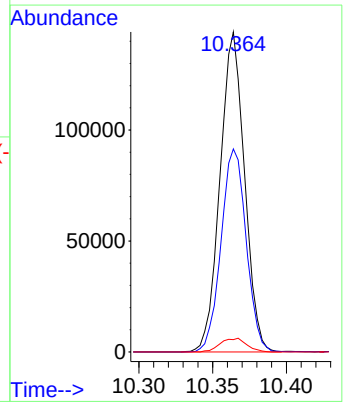
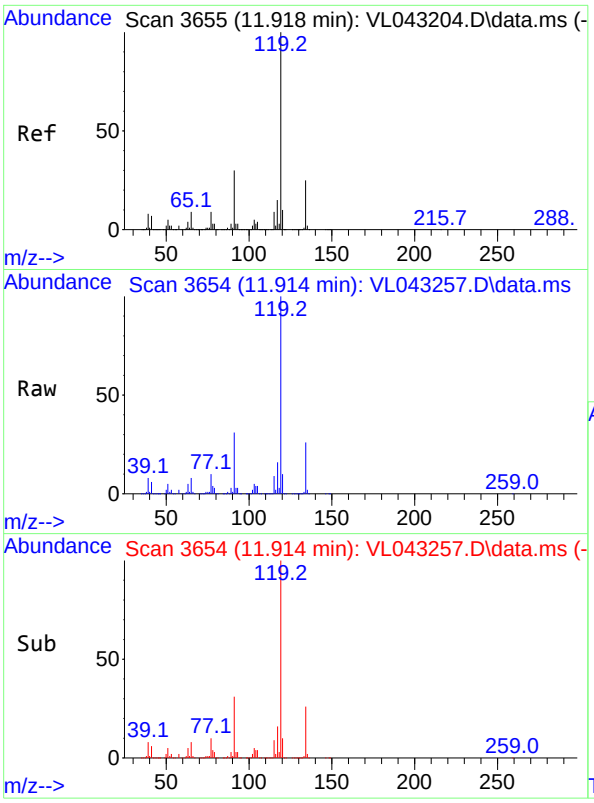


#68
1-Bromo-4-Fluorobenzene
Concen: 10.198 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 95 Resp: 166532

Ion	Ratio	Lower	Upper
95	100		
174	65.2	50.2	75.2
175	4.6	4.1	6.1

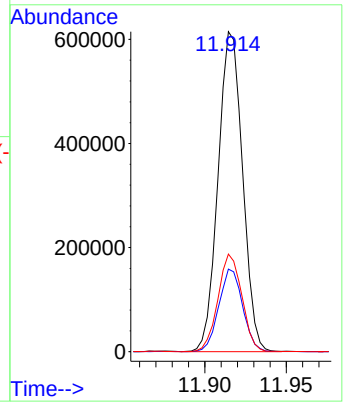




#69
p-Isopropyltoluene
Concen: 9.886 ppbv
RT: 11.914 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:119 Resp: 64141

Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	30.0	23.8	35.8



Instrument :
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ClientSampleId :
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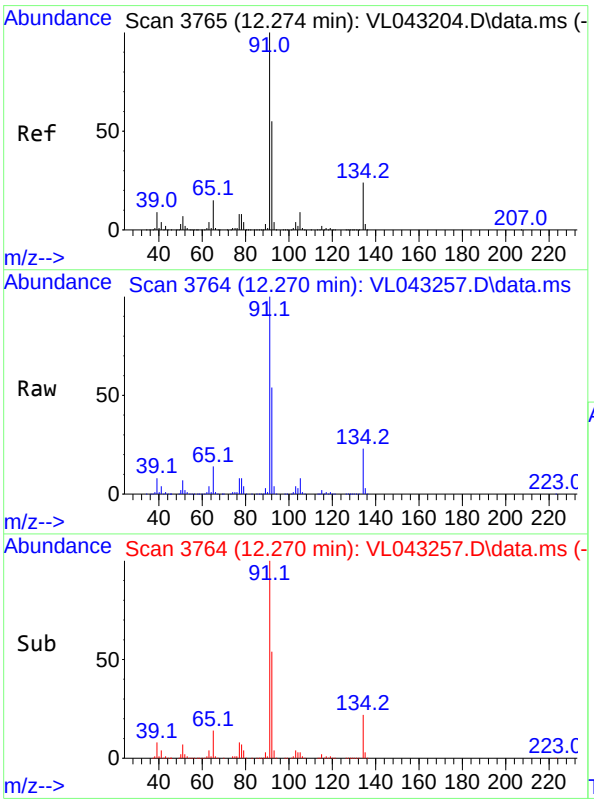
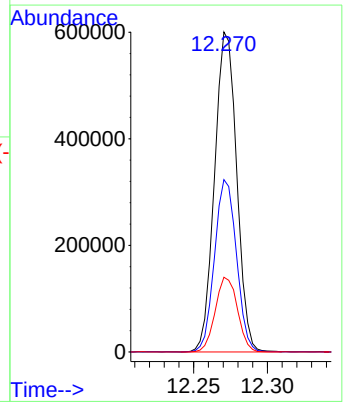
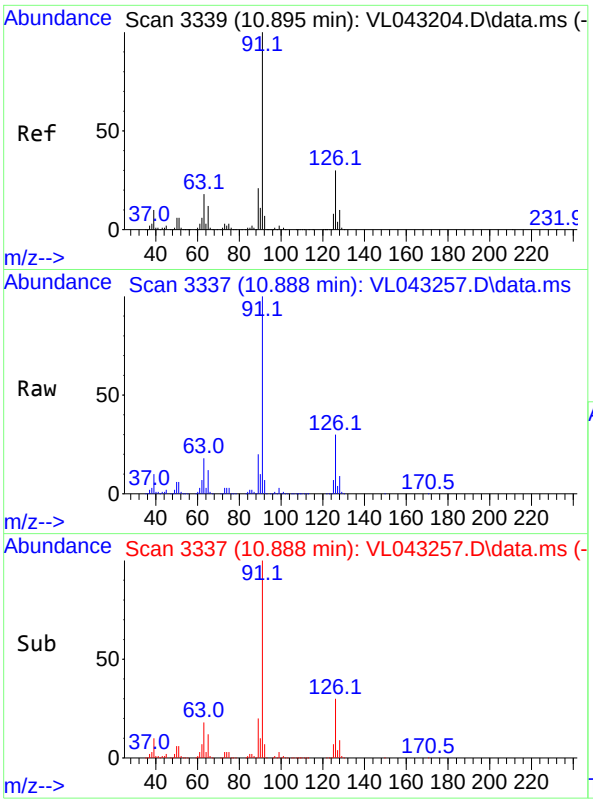


#70
n-Butylbenzene
Concen: 9.948 ppbv
RT: 12.270 min Scan# 3764
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 91 Resp: 626151

Ion	Ratio	Lower	Upper
91	100		
92	53.4	43.5	65.3
134	23.5	19.0	28.6

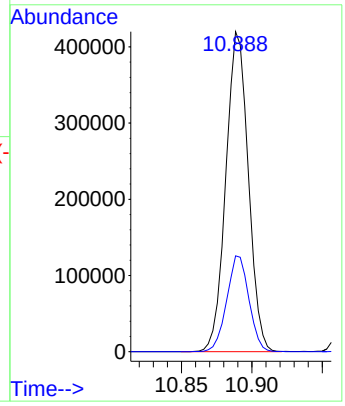




#71
2-Chlorotoluene
Concen: 9.875 ppbv
RT: 10.888 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 91 Resp: 46635

Ion	Ratio	Lower	Upper
91	100		
126	29.5	11.7	46.7



Instrument :
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ClientSampleId :
VSTDCCC010

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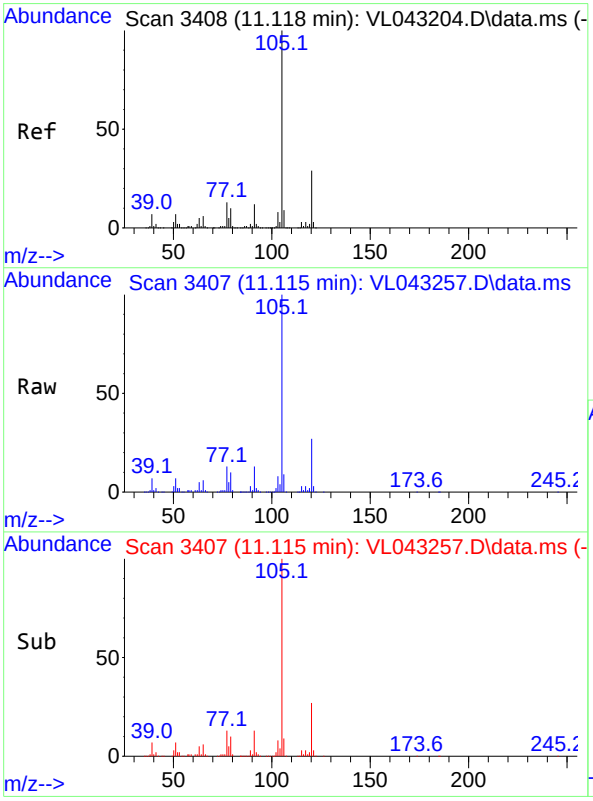
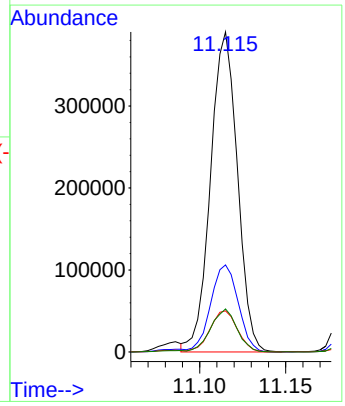
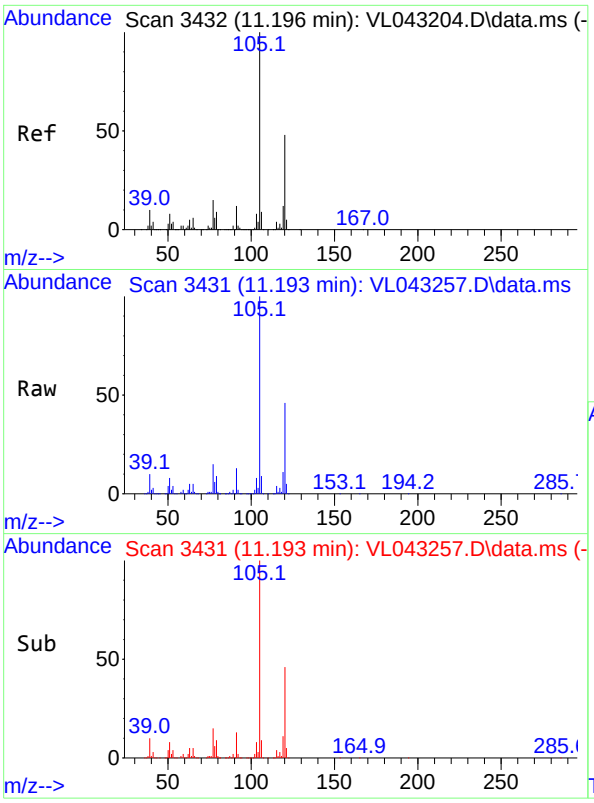


#72
4-Ethyltoluene
Concen: 10.147 ppbv
RT: 11.115 min Scan# 3407
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:105 Resp: 424355

Ion	Ratio	Lower	Upper
105	100		
120	28.7	23.8	35.8
91	13.9	10.3	15.5
77	13.6	11.1	16.7

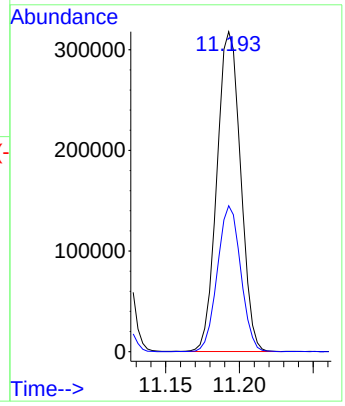




#73
1,3,5-Trimethylbenzene
Concen: 10.119 ppbv
RT: 11.193 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:105 Resp: 35513

Ion	Ratio	Lower	Upper
105	100		
120	45.6	38.6	57.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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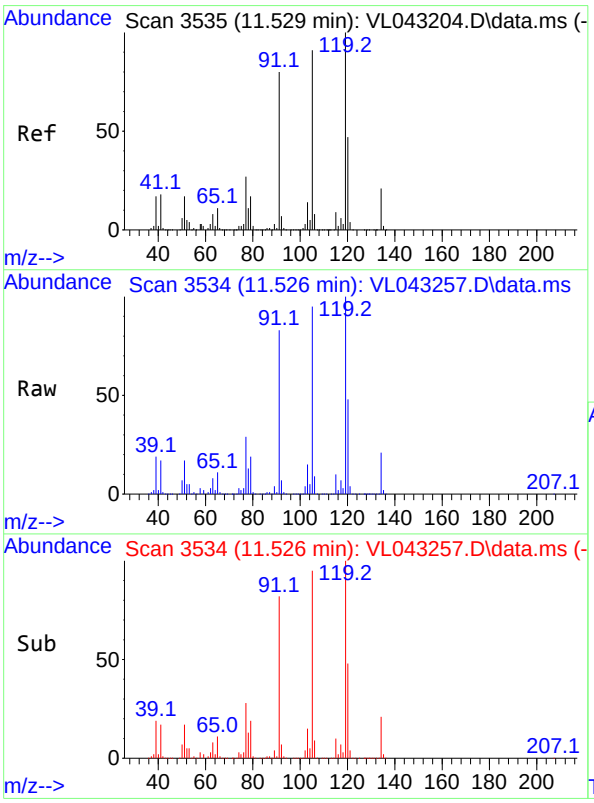
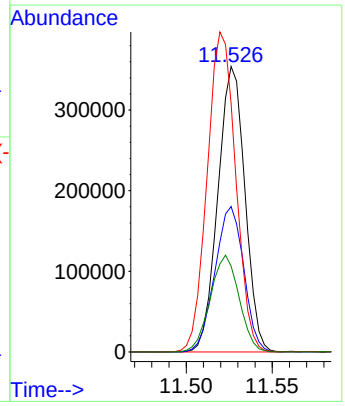
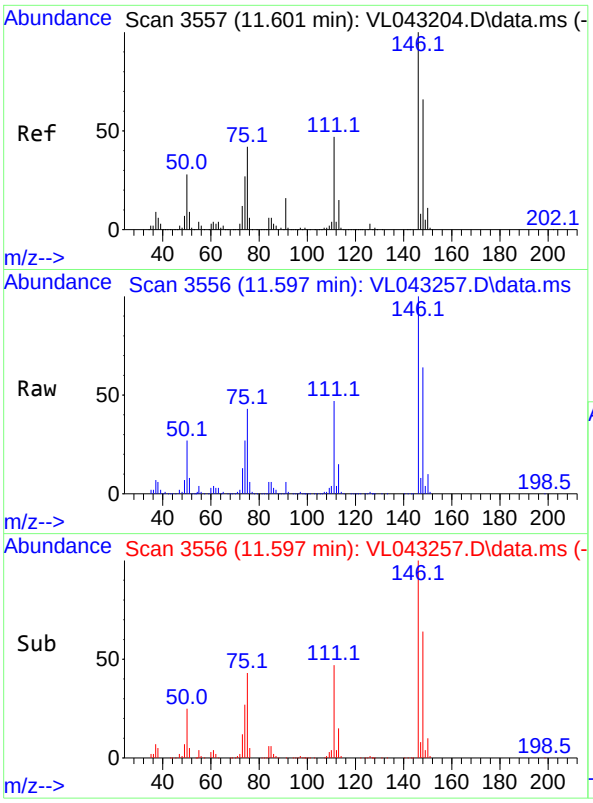


#74
1,2,4-Trimethylbenzene
Concen: 10.095 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:105 Resp: 386671

Ion	Ratio	Lower	Upper
105	100		
120	51.0	41.7	62.5
91	87.0	70.0	105.0
77	30.1	23.8	35.8

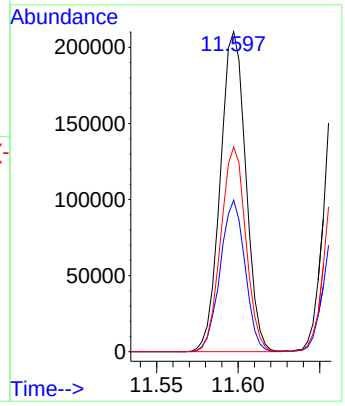




#75
1,3-Dichlorobenzene
Concen: 10.196 ppbv
RT: 11.597 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:146 Resp: 22789

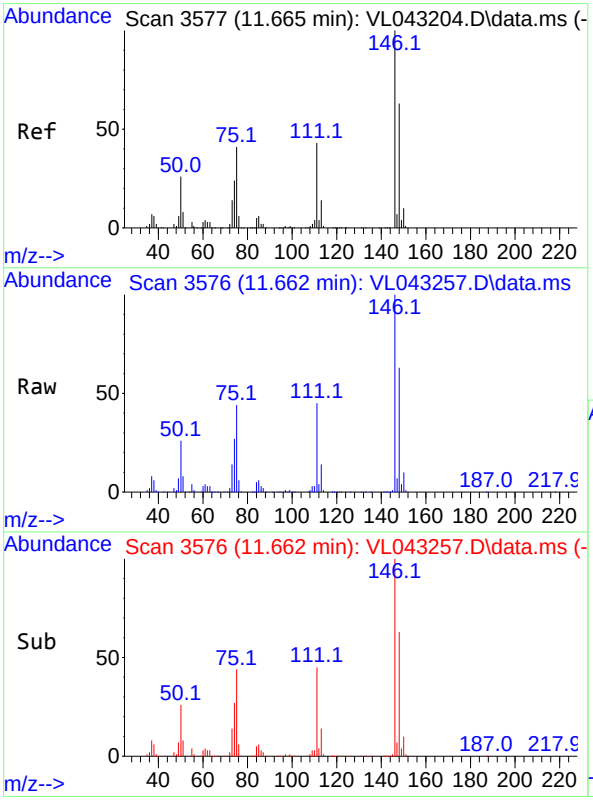
Ion	Ratio	Lower	Upper
146	100		
111	46.2	23.4	70.3
148	63.1	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

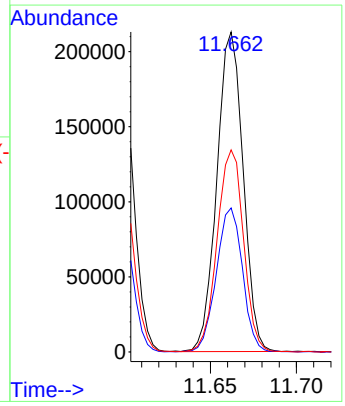
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

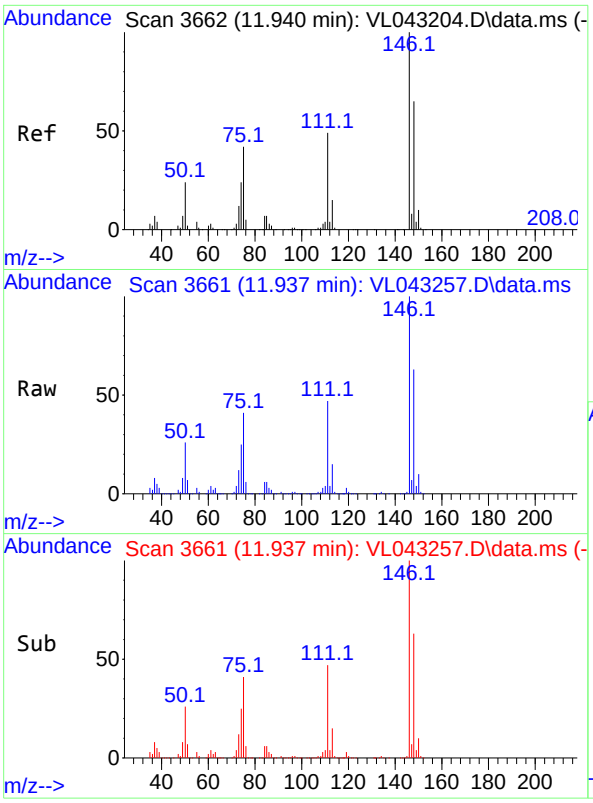


#76
1,4-Dichlorobenzene
Concen: 10.117 ppbv
RT: 11.662 min Scan# 3576
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:146 Resp: 226164

Ion	Ratio	Lower	Upper
146	100		
111	45.1	22.8	68.3
148	63.7	31.8	95.4

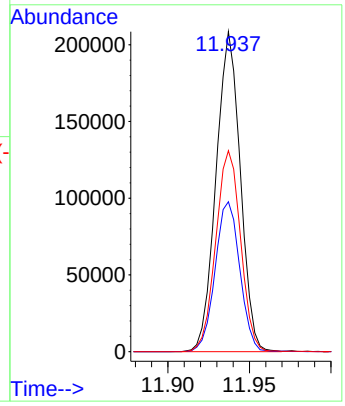




#77
1,2-Dichlorobenzene
Concen: 10.032 ppbv
RT: 11.937 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:146 Resp: 21557

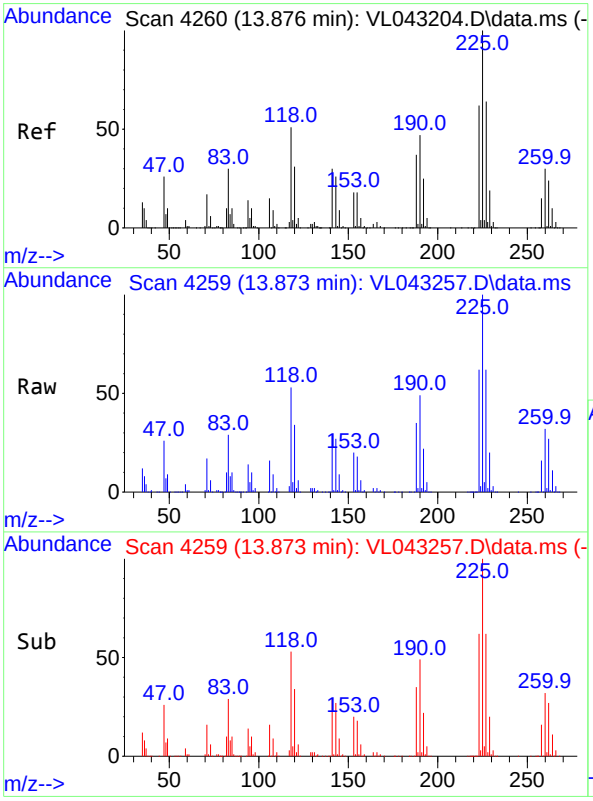
Ion	Ratio	Lower	Upper
146	100		
111	47.8	24.3	73.0
148	64.4	31.6	94.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

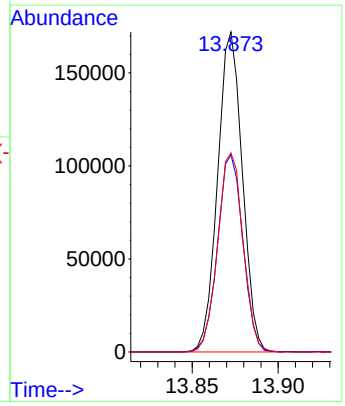
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

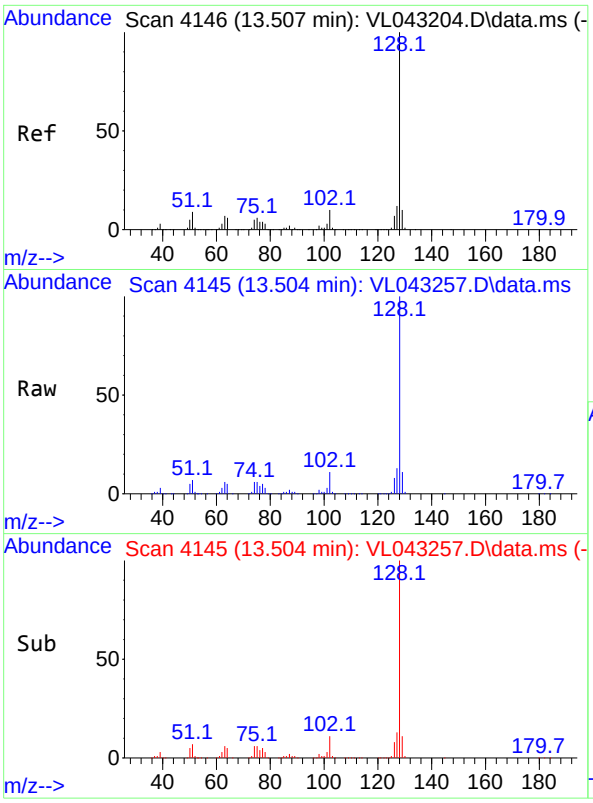


#78
Hexachloro-1,3-Butadiene
Concen: 9.604 ppbv
RT: 13.873 min Scan# 4259
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:225 Resp: 172235

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.4
227	63.5	51.1	76.7

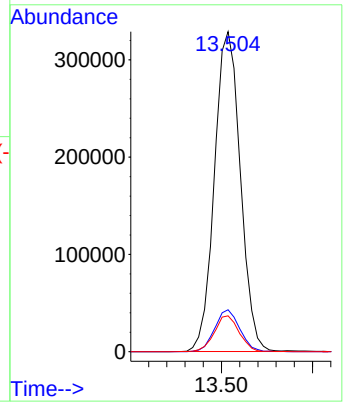




#79
Naphthalene
Concen: 9.536 ppbv
RT: 13.504 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:128 Resp: 32439

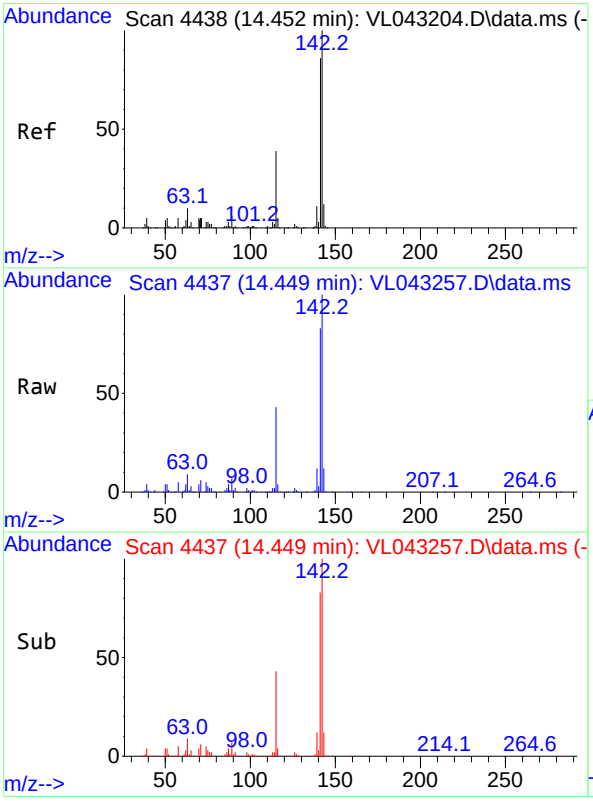
Ion	Ratio	Lower	Upper
128	100		
127	13.1	9.9	14.9
129	11.2	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

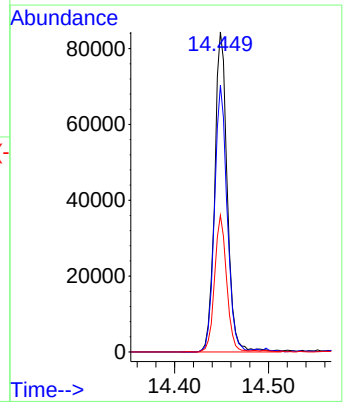
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

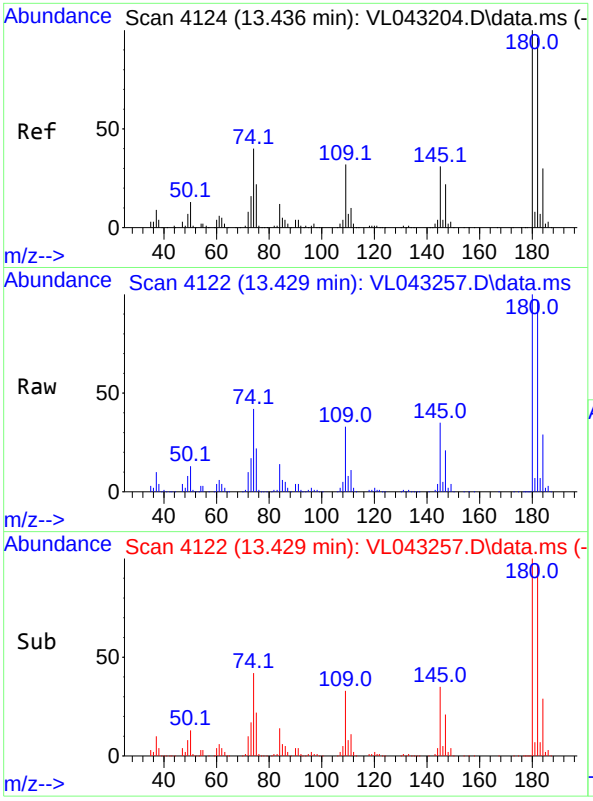


#80
Naphthalene,2-methyl-
Concen: 8.806 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:142 Resp: 78637

Ion	Ratio	Lower	Upper
142	100		
141	85.1	67.1	100.7
115	41.6	31.9	47.9

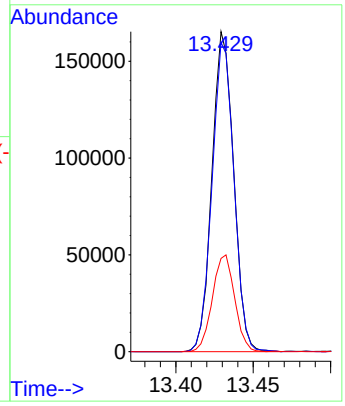




#81
1,2,4-Trichlorobenzene
Concen: 10.564 ppbv
RT: 13.429 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:180 Resp: 16072

Ion	Ratio	Lower	Upper
180	100		
182	97.8	77.4	116.2
184	31.2	24.2	36.4



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

QC SAMPLE DATA

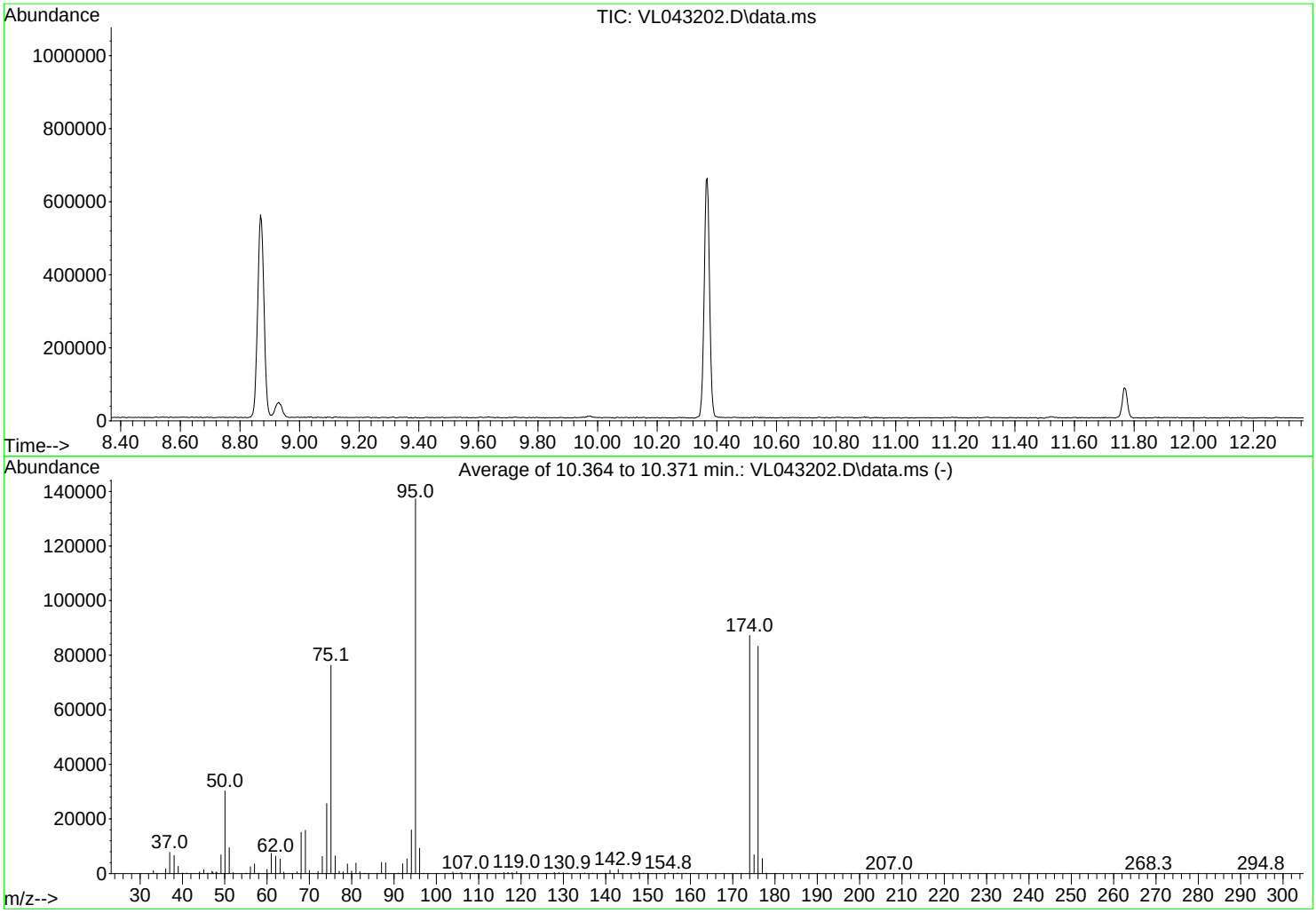
BFB

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

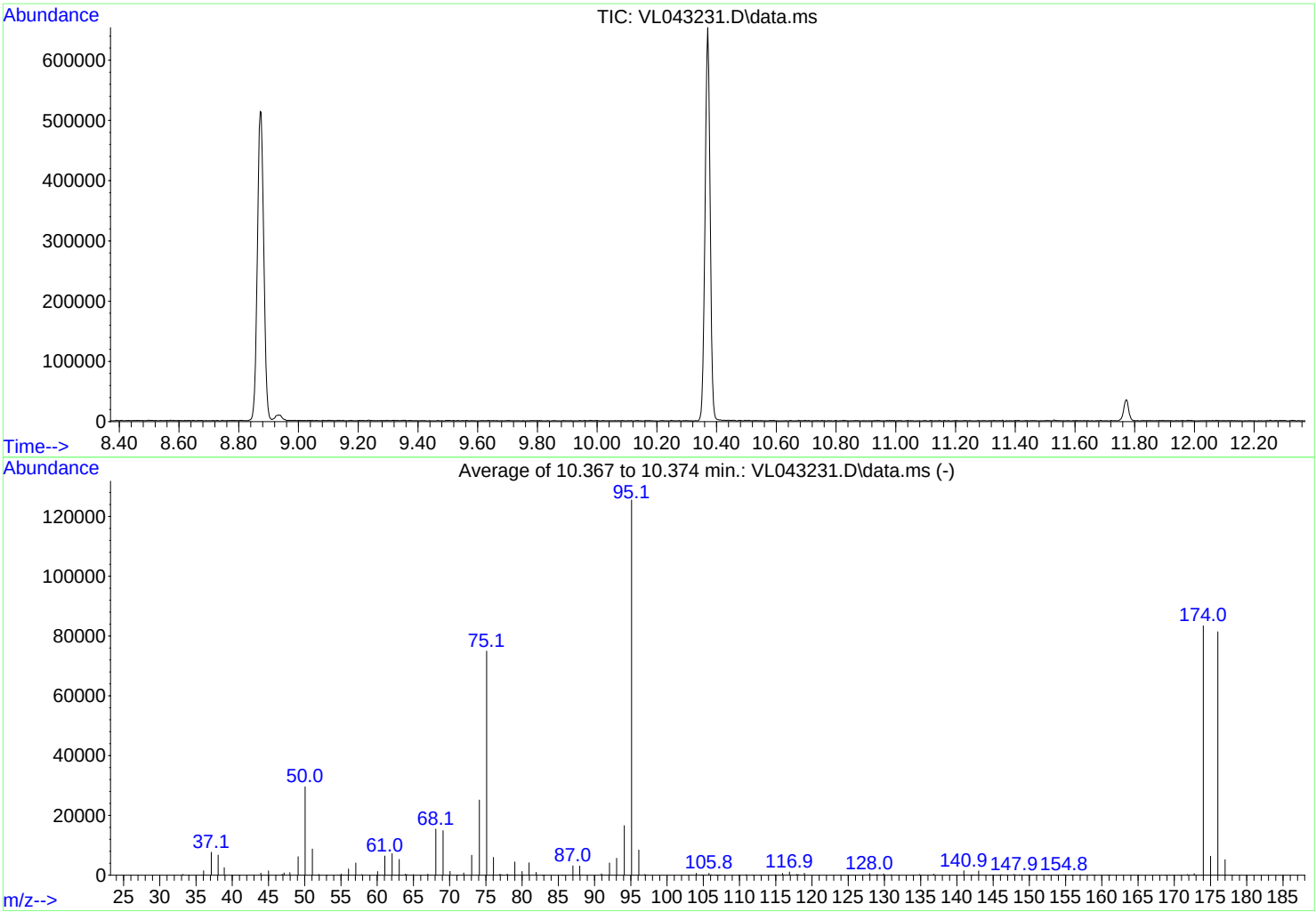
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043231.D
Acq On : 19 Nov 2025 08:43
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	23.6	29565	PASS
75	95	30	66	59.7	74981	PASS
95	95	100	100	100.0	125539	PASS
96	95	5	9	6.7	8409	PASS
173	174	0.00	2	0.6	526	PASS
174	95	50	120	66.5	83440	PASS
175	174	4	9	7.6	6330	PASS
176	174	93	101	97.6	81429	PASS
177	176	5	9	6.4	5212	PASS

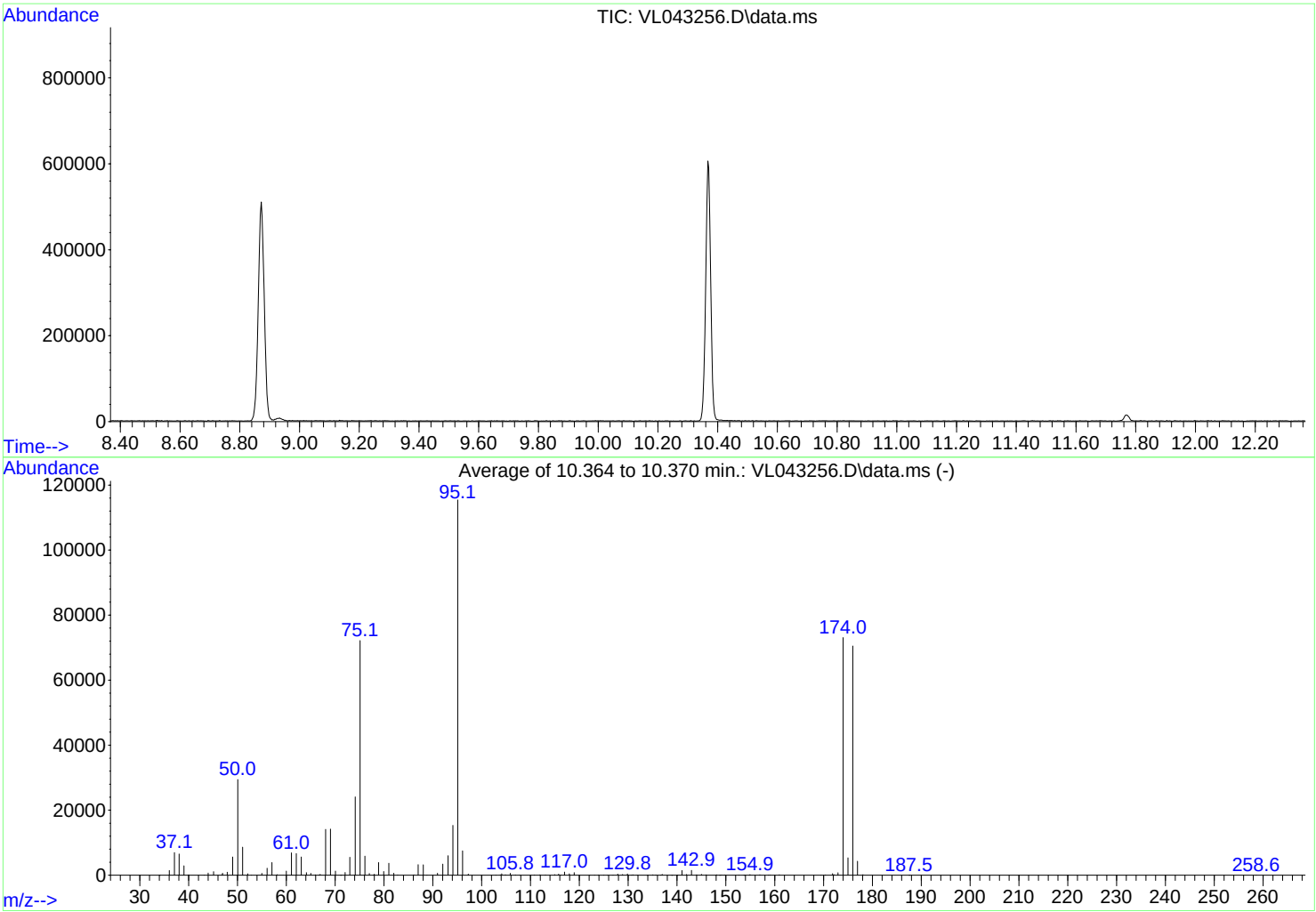
BFB

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

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:	VL1119ABL01	SDG No.:	Q3626
Lab Sample ID:	VL1119ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.11	0.54	U	1	0.54	2.47	11/19/25 11:11	VL111925
74-87-3	Chloromethane	0.10	0.21	U	1	0.21	1.03	11/19/25 11:11	VL111925
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/19/25 11:11	VL111925
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	11/19/25 11:11	VL111925
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	11/19/25 11:11	VL111925
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	11/19/25 11:11	VL111925
75-69-4	Trichlorofluoromethane	0.17	0.96	U	1	0.96	2.81	11/19/25 11:11	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	11/19/25 11:11	VL111925
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	11/19/25 11:11	VL111925
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	11/19/25 11:11	VL111925
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/19/25 11:11	VL111925
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	11/19/25 11:11	VL111925
67-64-1	Acetone	0.18	0.43	U	1	0.43	1.19	11/19/25 11:11	VL111925
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	11/19/25 11:11	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	11/19/25 11:11	VL111925
75-09-2	Methylene Chloride	0.23	0.80	U	1	0.80	1.74	11/19/25 11:11	VL111925
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	11/19/25 11:11	VL111925
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/19/25 11:11	VL111925
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/19/25 11:11	VL111925
78-93-3	2-Butanone	0.060	0.18	U	1	0.18	1.47	11/19/25 11:11	VL111925
56-23-5	Carbon Tetrachloride	0.030	0.19	U	1	0.19	0.19	11/19/25 11:11	VL111925
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/19/25 11:11	VL111925
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	11/19/25 11:11	VL111925
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/19/25 11:11	VL111925
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/19/25 11:11	VL111925
71-43-2	Benzene	0.080	0.26	U	1	0.26	1.60	11/19/25 11:11	VL111925
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	11/19/25 11:11	VL111925
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/19/25 11:11	VL111925
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	11/19/25 11:11	VL111925
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	11/19/25 11:11	VL111925
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	11/19/25 11:11	VL111925
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	11/19/25 11:11	VL111925
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	11/19/25 11:11	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	11/19/25 11:11	VL111925
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	11/19/25 11:11	VL111925
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	11/19/25 11:11	VL111925
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	11/19/25 11:11	VL111925
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/19/25 11:11	VL111925
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	11/19/25 11:11	VL111925
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/19/25 11:11	VL111925
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/19/25 11:11	VL111925
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/19/25 11:11	VL111925
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	11/19/25 11:11	VL111925
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	11/19/25 11:11	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	11/19/25 11:11	VL111925
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	11/19/25 11:11	VL111925

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:	VL1119ABL01	SDG No.:	Q3626
Lab Sample ID:	VL1119ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/19/25 11:11	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/19/25 11:11	VL111925
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	11/19/25 11:11	VL111925
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/19/25 11:11	VL111925
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/19/25 11:11	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	11/19/25 11:11	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	11/19/25 11:11	VL111925
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	11/19/25 11:11	VL111925
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/19/25 11:11	VL111925
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	11/19/25 11:11	VL111925
110-54-3	Hexane	0.16	0.56	U	1	0.56	1.76	11/19/25 11:11	VL111925
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	11/19/25 11:11	VL111925
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	11/19/25 11:11	VL111925
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	11/19/25 11:11	VL111925
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.0				70 (65) - 130 (135)	100% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	101000							
540-36-3	1,4-Difluorobenzene	278000							
3114-55-4	Chlorobenzene-d5	220000							

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\VL111925\
Data File : VL043233.D
Acq On : 19 Nov 2025 11:11
Operator : SY/MD
Sample : VL1119ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABL01

Quant Time: Nov 20 00:02:49 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

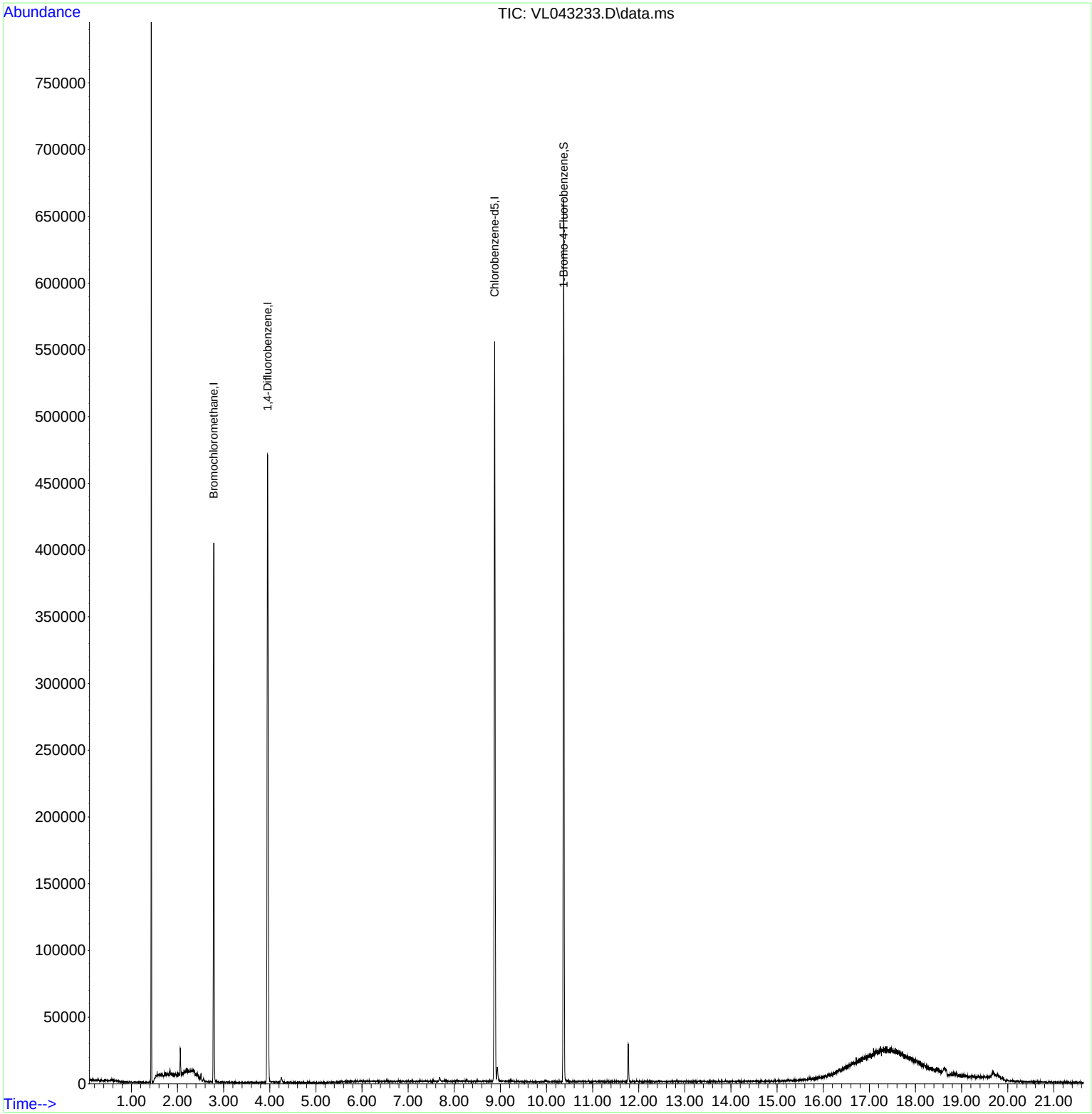
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	100515	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	277905	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	219972	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	161002	9.985	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.900%			
Target Compounds						Qvalue

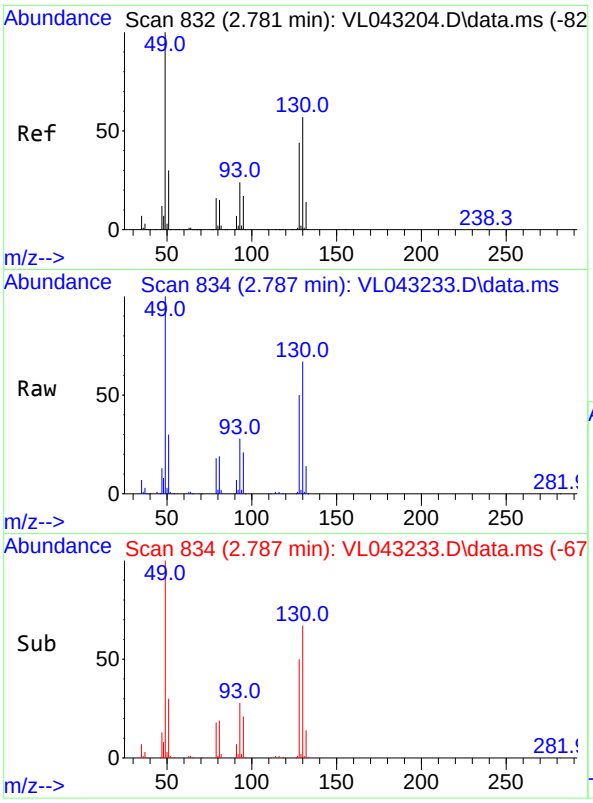
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043233.D
Acq On : 19 Nov 2025 11:11
Operator : SY/MD
Sample : VL1119ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABL01

Quant Time: Nov 20 00:02:49 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



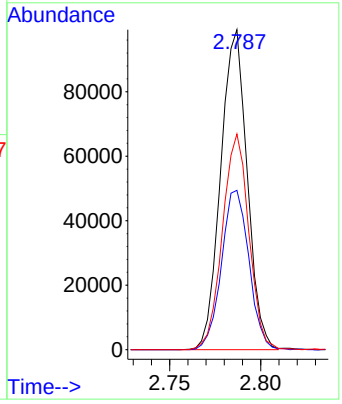


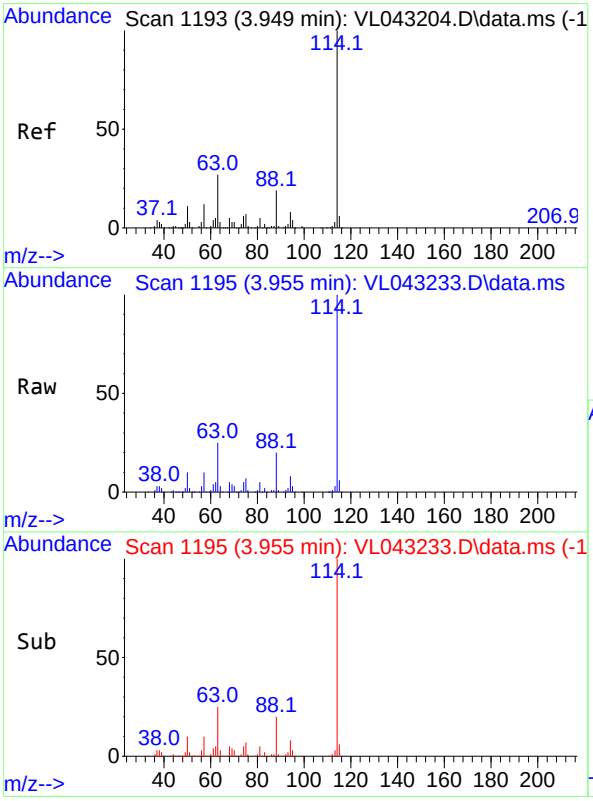
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043233.D
Acq: 19 Nov 2025 11:11

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABL01

Tgt Ion: 49 Resp: 100515

Ion	Ratio	Lower	Upper
49	100		
128	51.6	23.0	69.0
130	67.4	29.9	89.7

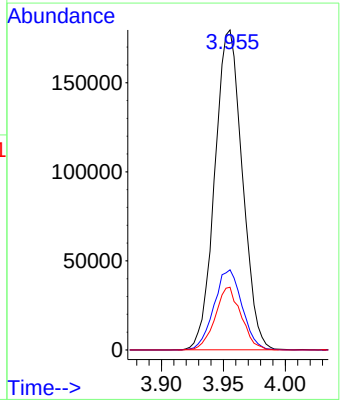


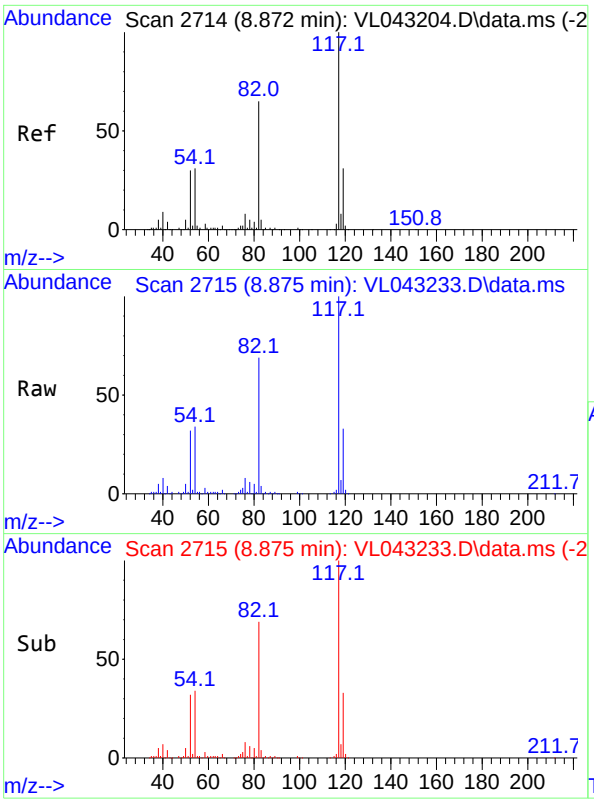


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043233.D
Acq: 19 Nov 2025 11:11

Tgt Ion:114 Resp: 277905

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	18.5	14.9	22.3



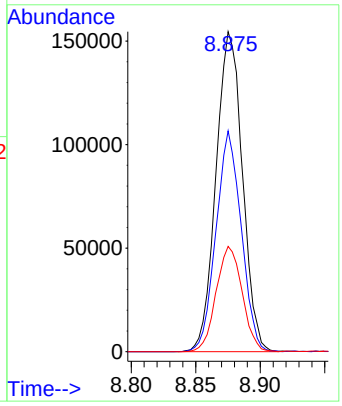


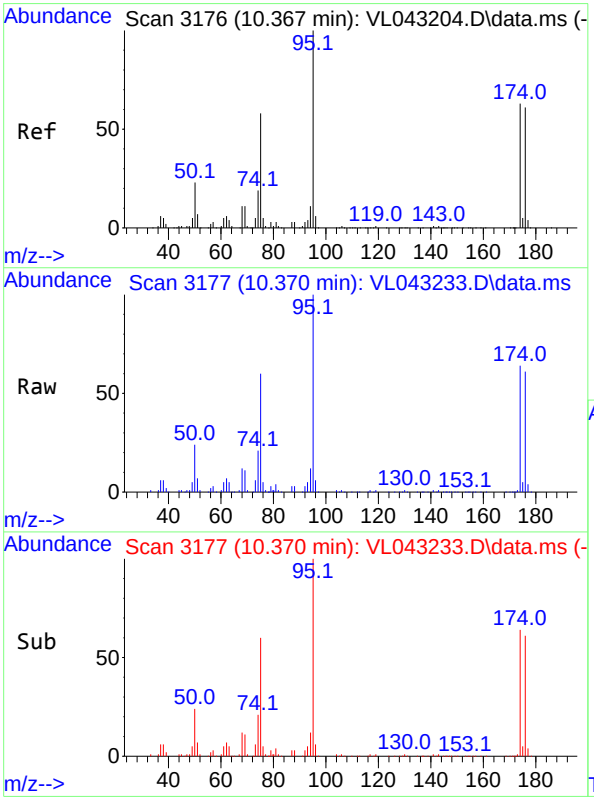
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043233.D
Acq: 19 Nov 2025 11:11

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABL01

Tgt Ion:117 Resp: 219972

Ion	Ratio	Lower	Upper
117	100		
82	66.0	56.1	84.1
119	32.6	25.0	37.6

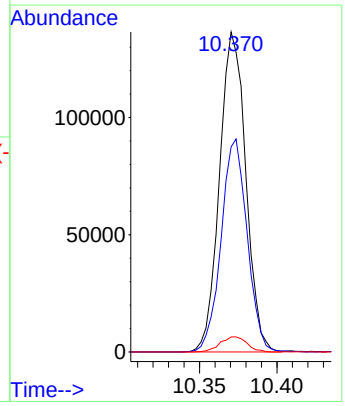




#68
1-Bromo-4-Fluorobenzene
Concen: 9.985 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043233.D
Acq: 19 Nov 2025 11:11

Tgt Ion: 95 Resp: 161002

Ion	Ratio	Lower	Upper
95	100		
174	66.0	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:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	VL1120ABL01	SDG No.:	Q3626
Lab Sample ID:	VL1120ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.11	0.54	U	1	0.54	2.47	11/20/25 11:01	VL112025
74-87-3	Chloromethane	0.10	0.21	U	1	0.21	1.03	11/20/25 11:01	VL112025
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/20/25 11:01	VL112025
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	11/20/25 11:01	VL112025
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	11/20/25 11:01	VL112025
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	11/20/25 11:01	VL112025
75-69-4	Trichlorofluoromethane	0.17	0.96	U	1	0.96	2.81	11/20/25 11:01	VL112025
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	11/20/25 11:01	VL112025
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	11/20/25 11:01	VL112025
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	11/20/25 11:01	VL112025
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/20/25 11:01	VL112025
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	11/20/25 11:01	VL112025
67-64-1	Acetone	0.18	0.43	U	1	0.43	1.19	11/20/25 11:01	VL112025
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	11/20/25 11:01	VL112025
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	11/20/25 11:01	VL112025
75-09-2	Methylene Chloride	0.23	0.80	U	1	0.80	1.74	11/20/25 11:01	VL112025
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	11/20/25 11:01	VL112025
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/20/25 11:01	VL112025
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/20/25 11:01	VL112025
78-93-3	2-Butanone	0.060	0.18	U	1	0.18	1.47	11/20/25 11:01	VL112025
56-23-5	Carbon Tetrachloride	0.030	0.19	U	1	0.19	0.19	11/20/25 11:01	VL112025
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/20/25 11:01	VL112025
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	11/20/25 11:01	VL112025
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/20/25 11:01	VL112025
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/20/25 11:01	VL112025
71-43-2	Benzene	0.080	0.26	U	1	0.26	1.60	11/20/25 11:01	VL112025
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	11/20/25 11:01	VL112025
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/20/25 11:01	VL112025
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	11/20/25 11:01	VL112025
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	11/20/25 11:01	VL112025
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	11/20/25 11:01	VL112025
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	11/20/25 11:01	VL112025
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	11/20/25 11:01	VL112025
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	11/20/25 11:01	VL112025
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	11/20/25 11:01	VL112025
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	11/20/25 11:01	VL112025
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	11/20/25 11:01	VL112025
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/20/25 11:01	VL112025
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	11/20/25 11:01	VL112025
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/20/25 11:01	VL112025
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/20/25 11:01	VL112025
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/20/25 11:01	VL112025
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	11/20/25 11:01	VL112025
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	11/20/25 11:01	VL112025
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	11/20/25 11:01	VL112025
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	11/20/25 11:01	VL112025

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Fax : 908 789 8922

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	VL1120ABL01	SDG No.:	Q3626
Lab Sample ID:	VL1120ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/20/25 11:01	VL112025
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/20/25 11:01	VL112025
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	11/20/25 11:01	VL112025
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/20/25 11:01	VL112025
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/20/25 11:01	VL112025
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	11/20/25 11:01	VL112025
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	11/20/25 11:01	VL112025
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	11/20/25 11:01	VL112025
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/20/25 11:01	VL112025
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	11/20/25 11:01	VL112025
110-54-3	Hexane	0.16	0.56	U	1	0.56	1.76	11/20/25 11:01	VL112025
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	11/20/25 11:01	VL112025
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	11/20/25 11:01	VL112025
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	11/20/25 11:01	VL112025
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.0				70 (65) - 130 (135)	100% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	106000							
540-36-3	1,4-Difluorobenzene	275000							
3114-55-4	Chlorobenzene-d5	211000							

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\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

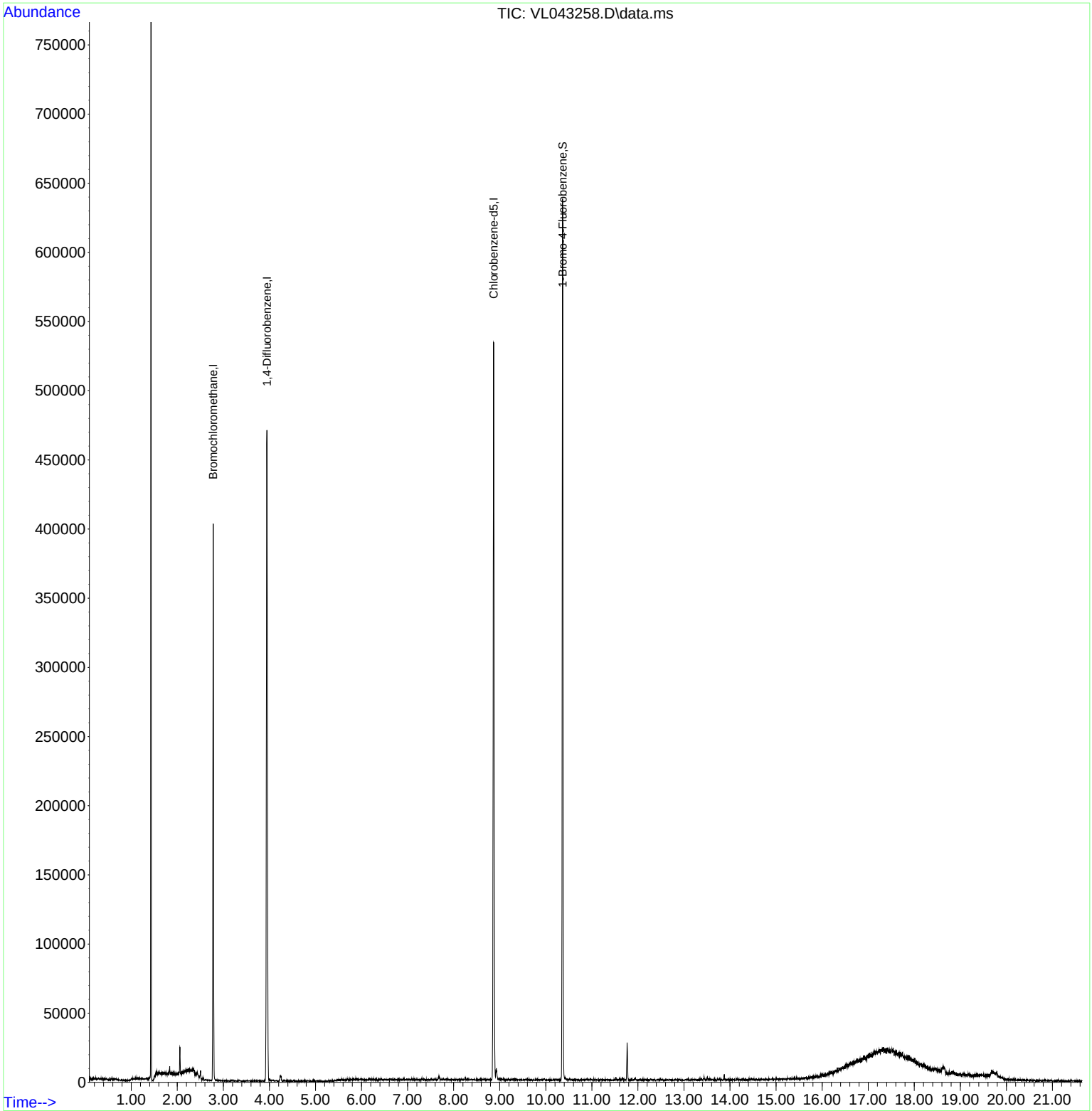
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	105521	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	275399	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	211341	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	154256	9.958	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.600%			
Target Compounds						Qvalue

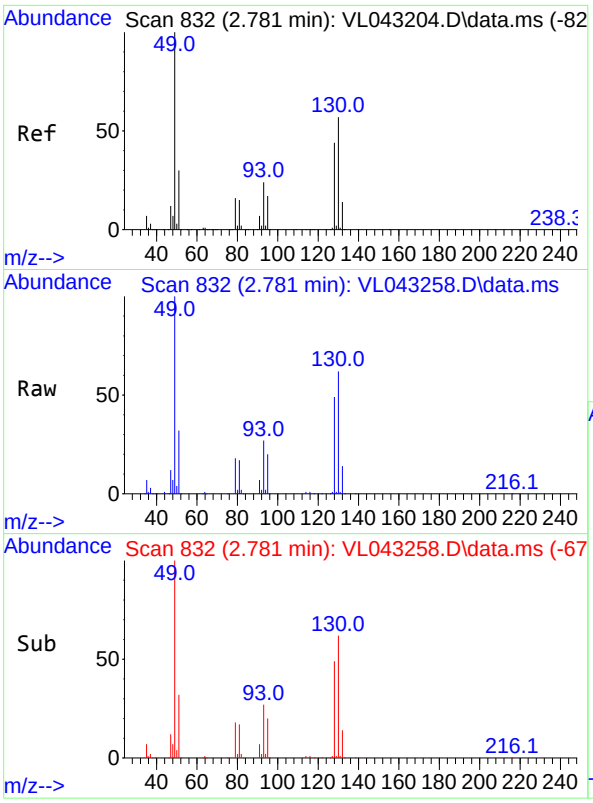
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



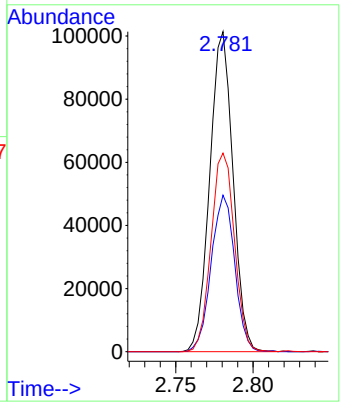


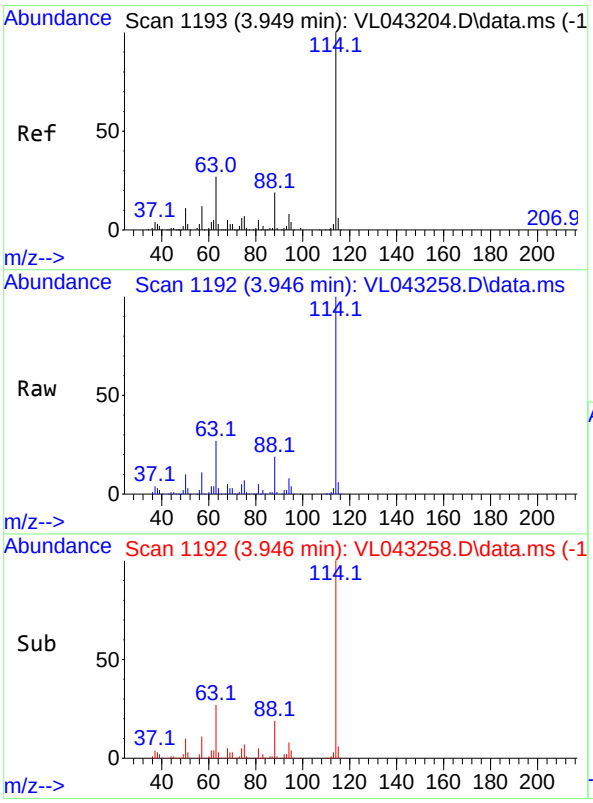
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043258.D
Acq: 20 Nov 2025 11:01

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABL01

Tgt Ion: 49 Resp: 105521

Ion	Ratio	Lower	Upper
49	100		
128	49.6	23.0	69.0
130	62.9	29.9	89.7

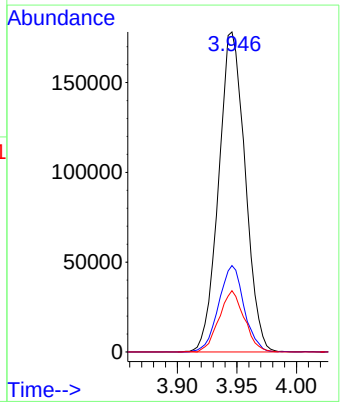


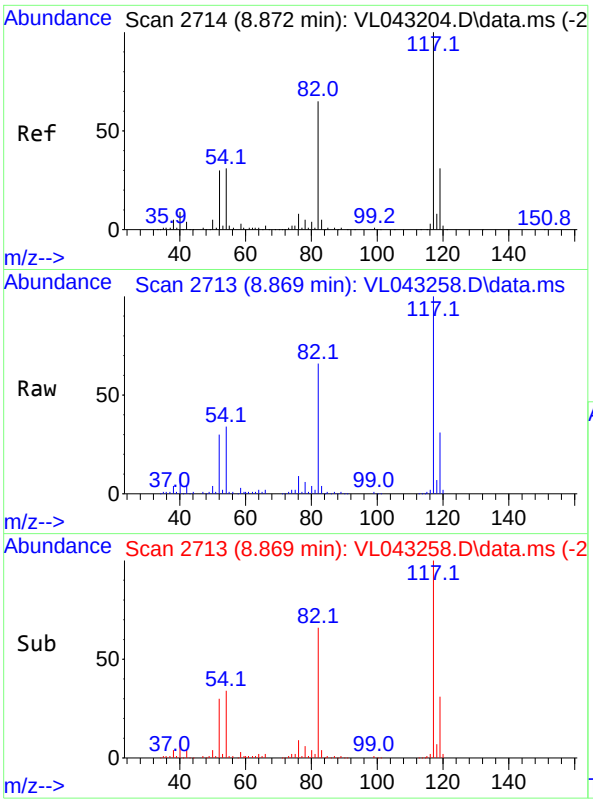


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.003 min
Lab File: VL043258.D
Acq: 20 Nov 2025 11:01

Tgt Ion:114 Resp: 275399

Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.0	31.6
88	18.3	14.9	22.3



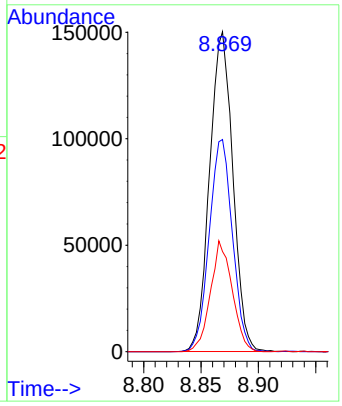


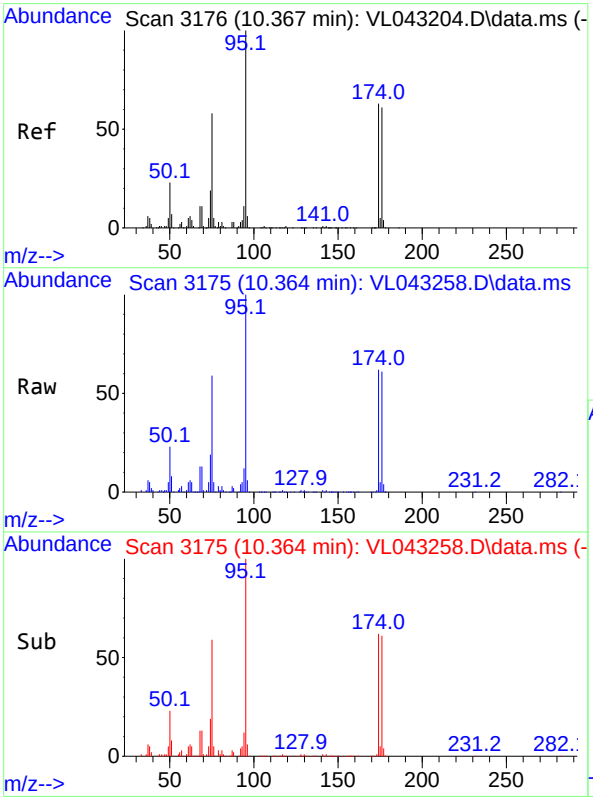
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043258.D
Acq: 20 Nov 2025 11:01

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABL01

Tgt Ion:117 Resp: 211341

Ion	Ratio	Lower	Upper
117	100		
82	66.5	56.1	84.1
119	32.6	25.0	37.6

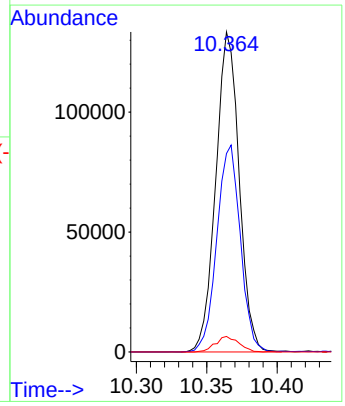




#68
1-Bromo-4-Fluorobenzene
Concen: 9.958 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VL043258.D
Acq: 20 Nov 2025 11:01

Tgt Ion: 95 Resp: 154256

Ion	Ratio	Lower	Upper
95	100		
174	65.5	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:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	VL1119ABS01	SDG No.:	Q3626
Lab Sample ID:	VL1119ABS01	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	10.9	53.9		1	0.54	2.47	11/19/25 11:56	VL111925
74-87-3	Chloromethane	9.80	20.2		1	0.21	1.03	11/19/25 11:56	VL111925
75-01-4	Vinyl Chloride	9.30	23.8		1	0.080	0.080	11/19/25 11:56	VL111925
74-83-9	Bromomethane	10.6	41.2		1	0.31	1.94	11/19/25 11:56	VL111925
75-00-3	Chloroethane	9.30	24.5		1	0.40	1.32	11/19/25 11:56	VL111925
109-99-9	Tetrahydrofuran	8.30	24.5		1	0.24	1.47	11/19/25 11:56	VL111925
75-69-4	Trichlorofluoromethane	12.1	68.0		1	0.96	2.81	11/19/25 11:56	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	11.4	87.4		1	1.07	3.83	11/19/25 11:56	VL111925
76-14-2	Dichlorotetrafluoroethane	10.9	76.2		1	1.05	3.49	11/19/25 11:56	VL111925
75-65-0	tert-Butyl alcohol	10.2	30.9		1	0.49	1.52	11/19/25 11:56	VL111925
142-82-5	Heptane	8.20	33.6		1	0.70	2.05	11/19/25 11:56	VL111925
75-35-4	1,1-Dichloroethene	10.5	41.6		1	0.59	1.98	11/19/25 11:56	VL111925
67-64-1	Acetone	8.40	19.9		1	0.43	1.19	11/19/25 11:56	VL111925
75-15-0	Carbon Disulfide	10.5	32.7		1	0.25	1.56	11/19/25 11:56	VL111925
1634-04-4	Methyl tert-Butyl Ether	10.4	37.5		1	0.83	1.80	11/19/25 11:56	VL111925
75-09-2	Methylene Chloride	11.6	40.3		1	0.80	1.74	11/19/25 11:56	VL111925
156-60-5	trans-1,2-Dichloroethene	10.3	40.8		1	0.48	1.98	11/19/25 11:56	VL111925
75-34-3	1,1-Dichloroethane	10.3	41.7		1	0.53	2.02	11/19/25 11:56	VL111925
110-82-7	Cyclohexane	9.30	32.0		1	0.76	1.72	11/19/25 11:56	VL111925
78-93-3	2-Butanone	8.80	25.9		1	0.18	1.47	11/19/25 11:56	VL111925
56-23-5	Carbon Tetrachloride	11.1	69.8		1	0.19	0.19	11/19/25 11:56	VL111925
156-59-2	cis-1,2-Dichloroethene	9.80	38.9		1	0.40	1.98	11/19/25 11:56	VL111925
67-66-3	Chloroform	11.1	54.2		1	0.49	2.44	11/19/25 11:56	VL111925
71-55-6	1,1,1-Trichloroethane	10.9	59.5		1	0.11	0.16	11/19/25 11:56	VL111925
540-84-1	2,2,4-Trimethylpentane	8.80	41.1		1	0.65	2.34	11/19/25 11:56	VL111925
71-43-2	Benzene	9.40	30.0		1	0.26	1.60	11/19/25 11:56	VL111925
107-06-2	1,2-Dichloroethane	10.6	42.9		1	0.36	2.02	11/19/25 11:56	VL111925
79-01-6	Trichloroethene	10.0	53.7		1	0.11	0.16	11/19/25 11:56	VL111925
78-87-5	1,2-Dichloropropane	9.20	42.5		1	0.60	2.31	11/19/25 11:56	VL111925
75-27-4	Bromodichloromethane	10.5	70.3		1	0.40	3.35	11/19/25 11:56	VL111925
108-10-1	4-Methyl-2-Pentanone	8.50	34.8		1	0.41	2.05	11/19/25 11:56	VL111925
108-88-3	Toluene	9.30	35.0		1	0.60	1.88	11/19/25 11:56	VL111925
10061-02-6	t-1,3-Dichloropropene	9.00	40.9		1	0.68	2.27	11/19/25 11:56	VL111925
10061-01-5	cis-1,3-Dichloropropene	9.00	40.9		1	0.50	2.27	11/19/25 11:56	VL111925
79-00-5	1,1,2-Trichloroethane	9.70	52.9		1	0.44	2.73	11/19/25 11:56	VL111925
124-48-1	Dibromochloromethane	10.8	92.0		1	0.77	4.26	11/19/25 11:56	VL111925
106-93-4	1,2-Dibromoethane	10.2	78.4		1	0.69	0.77	11/19/25 11:56	VL111925
127-18-4	Tetrachloroethene	9.90	67.1		1	0.14	0.20	11/19/25 11:56	VL111925
108-90-7	Chlorobenzene	10.0	46.0		1	0.37	2.30	11/19/25 11:56	VL111925
100-41-4	Ethyl Benzene	9.70	42.1		1	0.83	2.17	11/19/25 11:56	VL111925
179601-23-1	m/p-Xylene	19.9	86.4		1	1.78	4.34	11/19/25 11:56	VL111925
95-47-6	o-Xylene	10.0	43.4		1	0.91	2.17	11/19/25 11:56	VL111925
100-42-5	Styrene	9.40	40.0		1	0.68	2.13	11/19/25 11:56	VL111925
75-25-2	Bromoform	11.1	115		1	0.52	5.17	11/19/25 11:56	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	9.80	67.3		1	0.14	0.21	11/19/25 11:56	VL111925
95-49-8	2-Chlorotoluene	10.0	51.8		1	0.88	2.59	11/19/25 11:56	VL111925

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:	VL1119ABS01	SDG No.:	Q3626
Lab Sample ID:	VL1119ABS01	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	10.0	49.2		1	0.88	2.46	11/19/25 11:56	VL111925
95-63-6	1,2,4-Trimethylbenzene	10.2	50.1		1	0.88	2.46	11/19/25 11:56	VL111925
541-73-1	1,3-Dichlorobenzene	10.7	64.3		1	0.30	3.01	11/19/25 11:56	VL111925
106-46-7	1,4-Dichlorobenzene	10.7	64.3		1	0.78	3.01	11/19/25 11:56	VL111925
95-50-1	1,2-Dichlorobenzene	10.5	63.1		1	0.78	3.01	11/19/25 11:56	VL111925
120-82-1	1,2,4-Trichlorobenzene	11.6	86.1		1	1.56	3.71	11/19/25 11:56	VL111925
87-68-3	Hexachloro-1,3-Butadiene	10.6	113		1	1.39	5.33	11/19/25 11:56	VL111925
106-99-0	1,3-Butadiene	9.40	20.8		1	0.11	1.11	11/19/25 11:56	VL111925
91-20-3	Naphthalene	10.7	56.1		1	0.050	0.52	11/19/25 11:56	VL111925
622-96-8	4-Ethyltoluene	10.2	50.1		1	1.03	2.46	11/19/25 11:56	VL111925
110-54-3	Hexane	9.10	32.1		1	0.56	1.76	11/19/25 11:56	VL111925
107-05-1	Allyl Chloride	9.20	28.8		1	0.34	1.57	11/19/25 11:56	VL111925
123-91-1	1,4-Dioxane	9.40	33.9		1	0.79	1.80	11/19/25 11:56	VL111925
80-62-6	Methyl Methacrylate	8.60	35.2		1	0.57	2.05	11/19/25 11:56	VL111925
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	104000							
540-36-3	1,4-Difluorobenzene	285000							
3114-55-4	Chlorobenzene-d5	231000							

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\VL111925\
Data File : VL043234.D
Acq On : 19 Nov 2025 11:56
Operator : SY/MD
Sample : VL1119ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:03:05 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 :
VL1119ABS01

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	2.780	49	103562	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	284672	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	231008	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	174465	10.303	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	159627	10.928	ppbv	97
3) Chlorodifluoromethane	1.476	51	135373	9.424	ppbv	92
4) Chloromethane	1.531	50	53712	9.835	ppbv	99
5) Vinyl Chloride	1.580	62	55310	9.261	ppbv	94
6) Bromomethane	1.667	94	30752	10.622	ppbv	97
7) Chloroethane	1.703	64	21569	9.273	ppbv	96
8) Dichlorotetrafluoroethane	1.554	85	132161	10.877	ppbv	98
9) Propene	1.483	41	50921m	8.348	ppbv	
10) Heptane	4.965	43	148958	8.205	ppbv	97
11) Trichlorofluoromethane	1.874	101	170660	12.059	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	126291	11.431	ppbv	97
13) Ethanol	1.719	45	19195	8.949	ppbv	97
14) Bromoethene	1.780	108	45857	10.827	ppbv	94
15) Acetone	1.832	43	120708	8.389	ppbv	100
16) 1,3-Butadiene	1.609	39	60112	9.371	ppbv	95
17) tert-Butyl alcohol	2.036	59	193565	10.249	ppbv	100
18) 1,1-Dichloroethene	2.033	96	53841	10.466	ppbv	91
19) Isopropyl Alcohol	1.881	45	78152	9.612	ppbv	98
20) Methylene Chloride	2.059	84	48510	11.565	ppbv	92
21) Allyl Chloride	2.094	41	88786	9.172	ppbv	90
22) trans-1,2-Dichloroethene	2.337	96	60785	10.338	ppbv	98
23) Vinyl Acetate	2.457	43	167108	9.620	ppbv	97
24) 1,1-Dichloroethane	2.405	63	117414	10.345	ppbv	98
25) Ethyl Acetate	2.826	43	271886	8.761	ppbv	99
26) Hexane	2.823	57	123157	9.052	ppbv	99
27) Carbon Disulfide	2.146	76	145985	10.510	ppbv	99
28) Methyl tert-Butyl Ether	2.434	73	69751	10.444	ppbv	97
29) Chloroform	2.842	83	215242	11.130	ppbv	100
30) Cyclohexane	3.849	84	106579	9.344	ppbv	93
31) cis-1,2-Dichloroethene	2.716	61	132120	9.770	ppbv	95
32) 1,1,1-Trichloroethane	3.363	97	225383	10.934	ppbv	98
34) 2-Butanone	2.551	43	177332	8.825	ppbv	98
35) Carbon Tetrachloride	3.755	117	240159	11.114	ppbv	97
36) Benzene	3.648	78	257003	9.427	ppbv	99
37) 1,2-Dichloroethane	3.211	62	169512	10.630	ppbv	97
38) Trichloroethene	4.538	130	106290	9.965	ppbv	93
39) 1,2-Dichloropropane	4.305	63	92079	9.228	ppbv	94
40) 1,4-Dioxane	4.564	88	42013m	9.366	ppbv	
41) Tetrahydrofuran	3.046	42	91575	8.252	ppbv	97
42) Bromodichloromethane	4.480	83	231745	10.535	ppbv	96
43) Methyl Methacrylate	4.865	69	125100	8.645	ppbv	96
44) 2,2,4-Trimethylpentane	4.629	57	412813	8.817	ppbv	97
45) t-1,3-Dichloropropene	6.399	75	121926	9.039	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043234.D
Acq On : 19 Nov 2025 11:56
Operator : SY/MD
Sample : VL1119ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:03:05 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 :
VL1119ABS01

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	5.587	75	142340	8.987	ppbv		99
47) 1,1,2-Trichloroethane	6.567	97	103237	9.749	ppbv		96
48) Dibromochloromethane	7.377	129	196614	10.799	ppbv		98
49) Bromoform	9.474	173	178495	11.069	ppbv		100
50) 4-Methyl-2-Pentanone	5.732	43	241341	8.526	ppbv		99
51) 2-Hexanone	7.422	43	184090	8.375	ppbv	#	99
52) Tetrachloroethene	8.215	164	100528	9.913	ppbv		95
53) Toluene	6.920	91	298695	9.253	ppbv		99
54) 1,2-Dibromoethane	7.642	107	158882	10.196	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.917	131	178150	10.493	ppbv		98
57) Chlorobenzene	8.914	112	237323	10.006	ppbv		98
58) Ethyl Benzene	9.344	91	432563	9.729	ppbv		100
59) m/p-Xylene	9.545	91	710175m	19.922	ppbv		
60) o-Xylene	9.956	91	354511	9.955	ppbv		99
61) Styrene	9.862	104	146231	9.383	ppbv		98
62) Isopropylbenzene	10.532	105	643813	10.105	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.956	83	220953	9.751	ppbv		99
64) n-propylbenzene	10.982	120	166609	10.178	ppbv		99
65) tert-Butylbenzene	11.526	119	571982	10.053	ppbv		98
66) Benzyl Chloride	11.610	91	42746	7.403	ppbv		98
67) sec-Butylbenzene	11.762	105	793758	9.994	ppbv		99
69) p-Isopropyltoluene	11.921	119	682969	10.151	ppbv		100
70) n-Butylbenzene	12.277	91	676010	10.357	ppbv		99
71) 2-Chlorotoluene	10.895	91	490653	10.019	ppbv		99
72) 4-Ethyltoluene	11.118	105	441451	10.179	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	364625	10.019	ppbv		97
74) 1,2,4-Trimethylbenzene	11.532	105	403572	10.161	ppbv		88
75) 1,3-Dichlorobenzene	11.600	146	247440	10.676	ppbv		100
76) 1,4-Dichlorobenzene	11.665	146	247680	10.684	ppbv		99
77) 1,2-Dichlorobenzene	11.940	146	235048	10.548	ppbv		99
78) Hexachloro-1,3-Butadiene	13.876	225	196410	10.561	ppbv		100
79) Naphthalene	13.507	128	376827	10.683	ppbv		97
80) Naphthalene,2-methyl-	14.452	142	91146	9.844	ppbv		98
81) 1,2,4-Trichlorobenzene	13.435	180	183247	11.616	ppbv		99

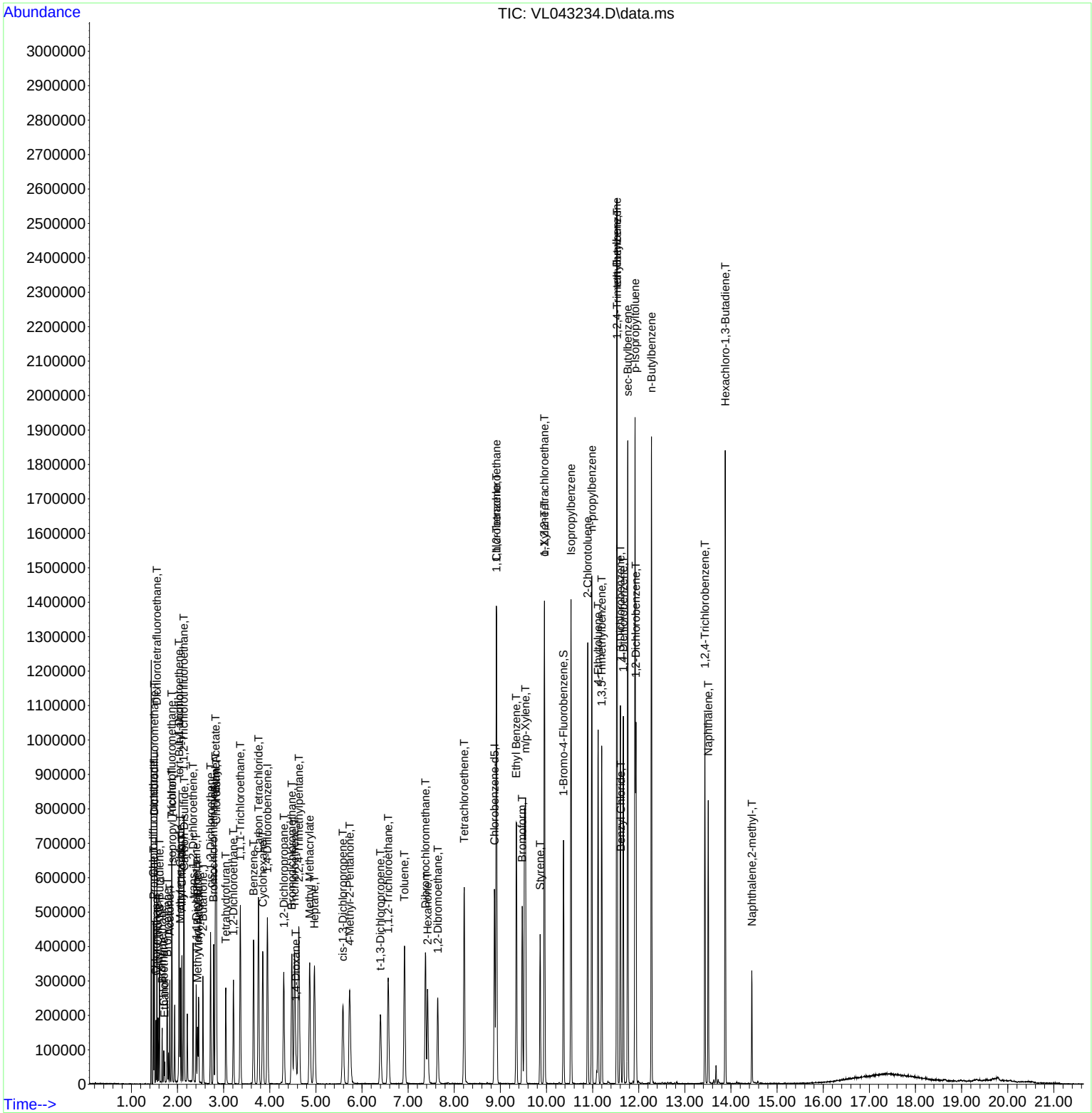
(#) = qualifier out of range (m) = manual integration (+) = signals summed

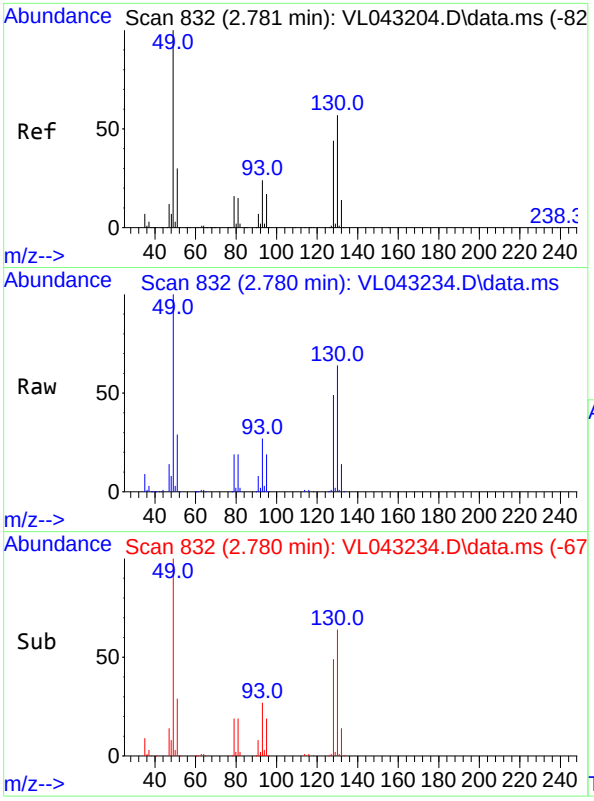
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043234.D
Acq On : 19 Nov 2025 11:56
Operator : SY/MD
Sample : VL1119ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:03:05 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 :
VL1119ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

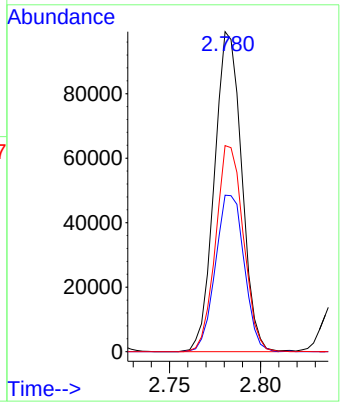




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.001 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 49 Resp: 10356

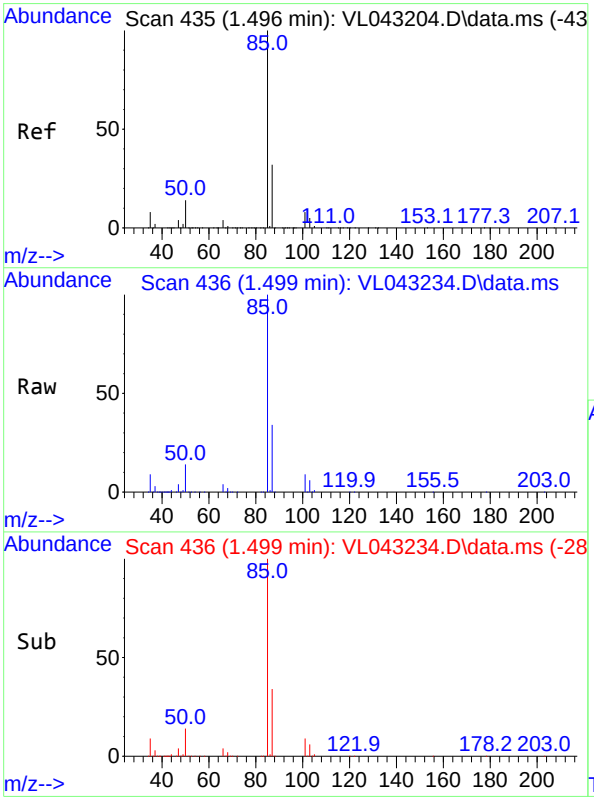
Ion	Ratio	Lower	Upper
49	100		
128	51.6	23.0	69.0
130	65.4	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Manual Integrations
APPROVED

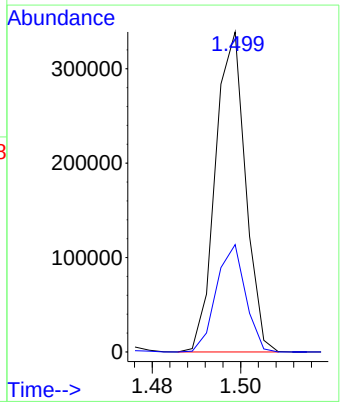
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

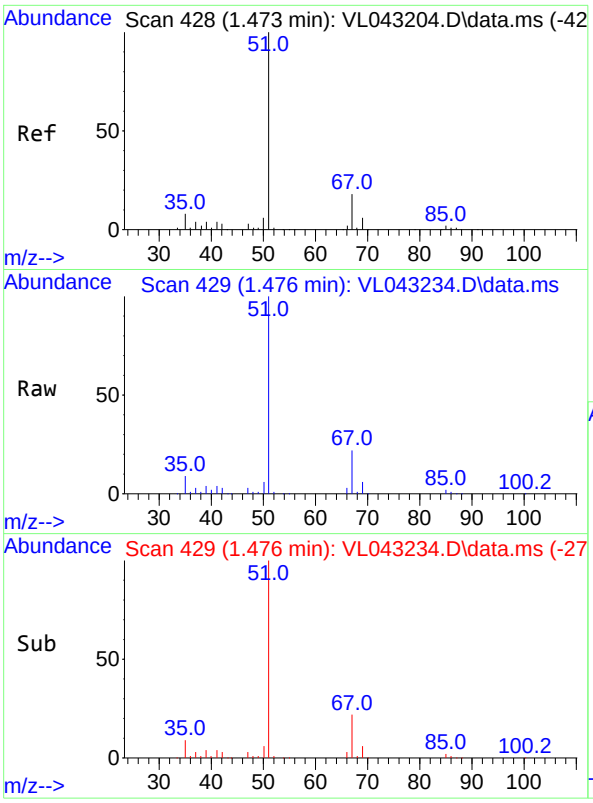


#2
Dichlorodifluoromethane
Concen: 10.928 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 85 Resp: 159627

Ion	Ratio	Lower	Upper
85	100		
87	33.6	25.4	38.2

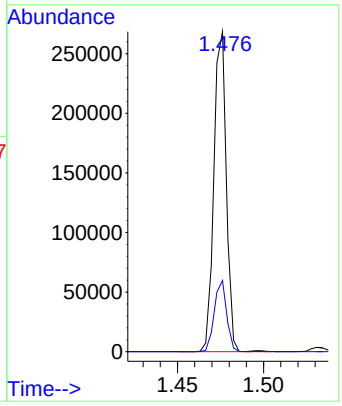




#3
Chlorodifluoromethane
Concen: 9.424 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 51 Resp: 13537

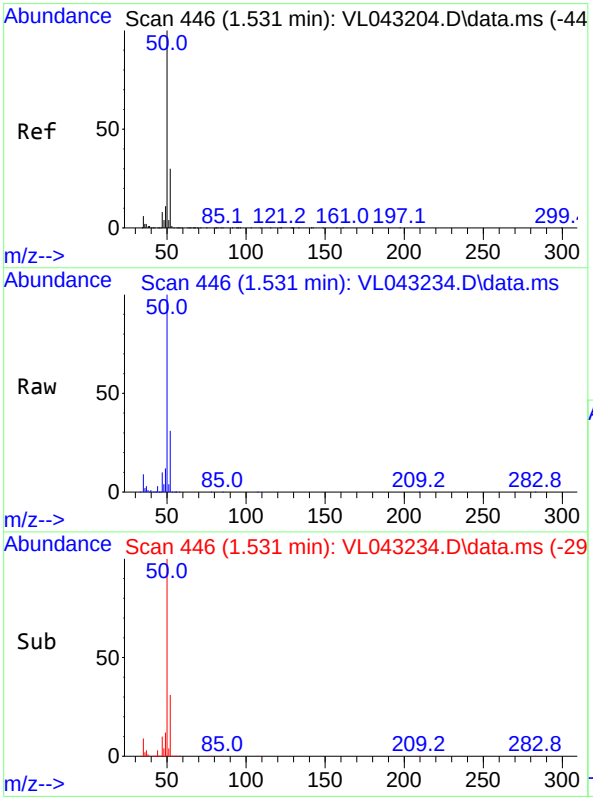
Ion	Ratio	Lower	Upper
51	100		
67	22.2	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Manual Integrations
APPROVED

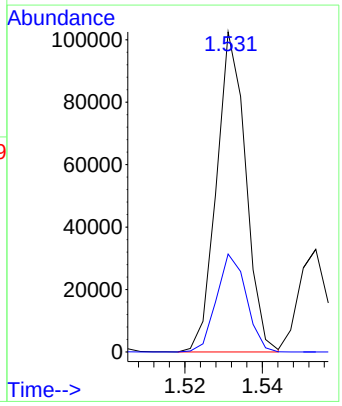
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

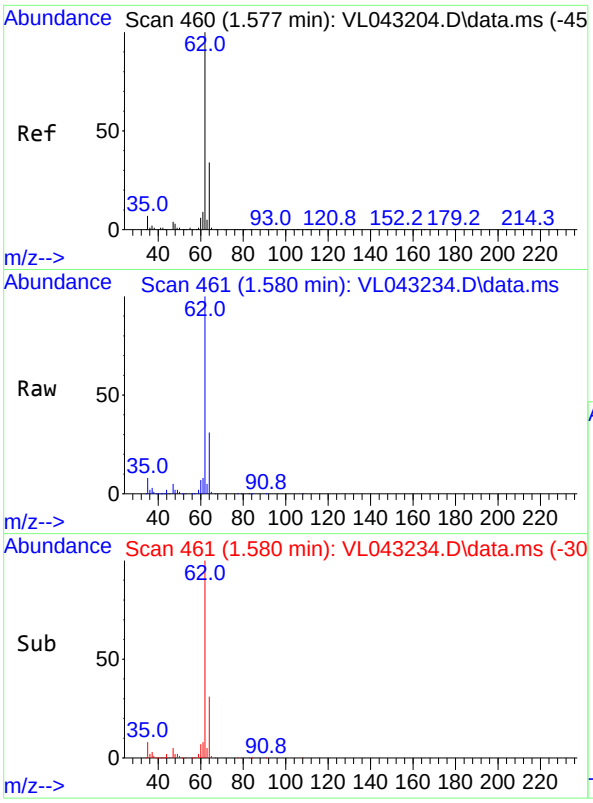


#4
Chloromethane
Concen: 9.835 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 50 Resp: 53712

Ion	Ratio	Lower	Upper
50	100		
52	30.6	24.1	36.1

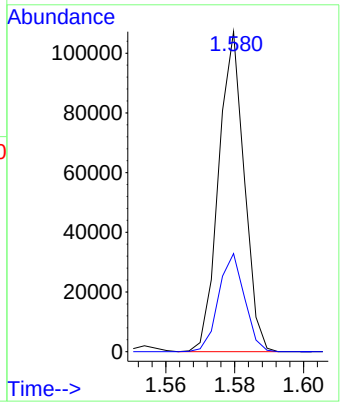




#5
Vinyl Chloride
Concen: 9.261 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 62 Resp: 5531

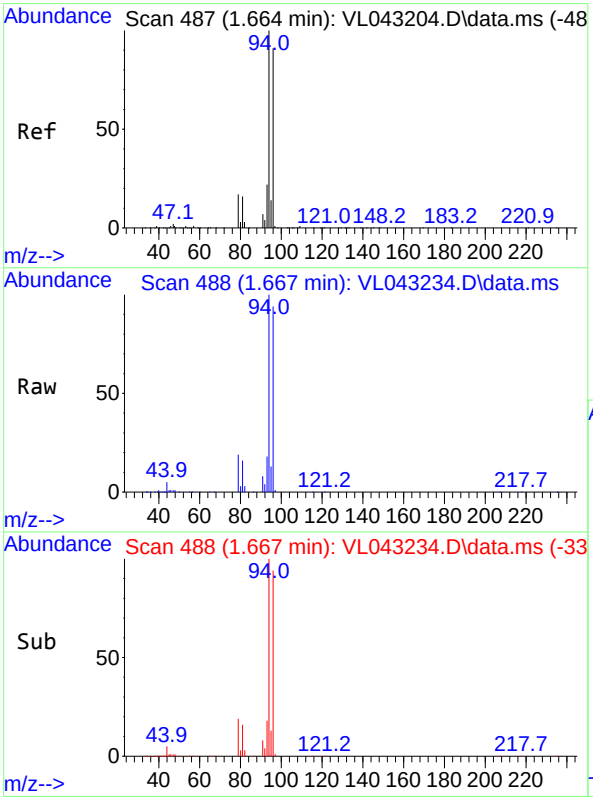
Ion	Ratio	Lower	Upper
62	100		
64	30.6	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Manual Integrations
APPROVED

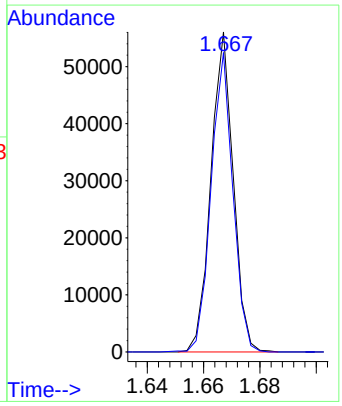
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

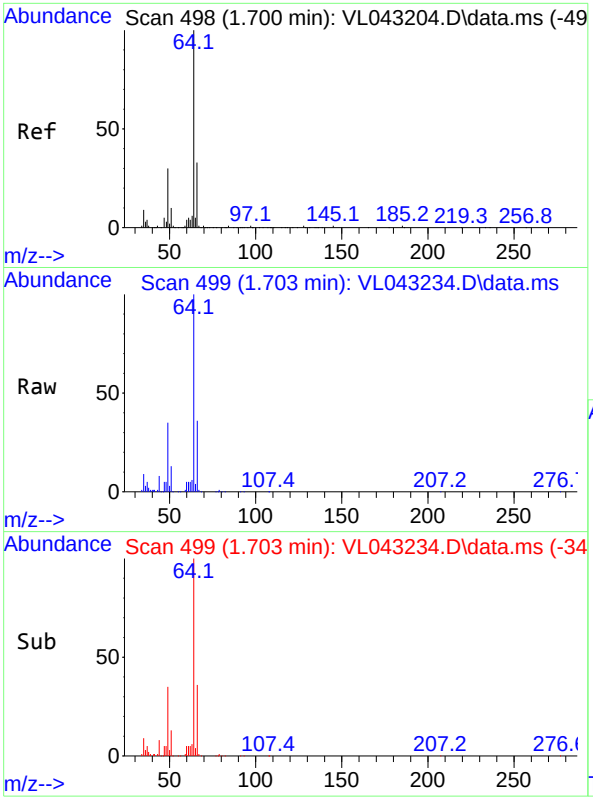


#6
Bromomethane
Concen: 10.622 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 94 Resp: 30752

Ion	Ratio	Lower	Upper
94	100		
96	93.5	72.9	109.3

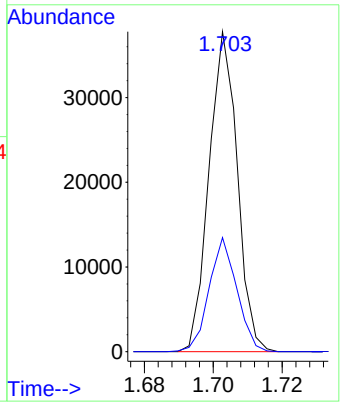




#7
Chloroethane
Concen: 9.273 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 64 Resp: 2156

Ion	Ratio	Lower	Upper
64	100		
66	35.6	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

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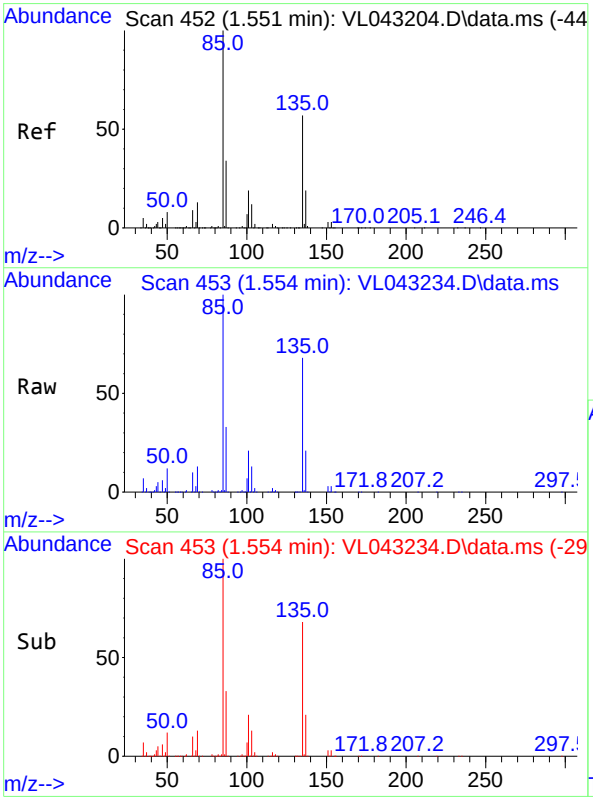
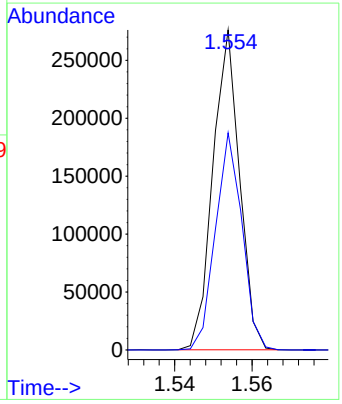
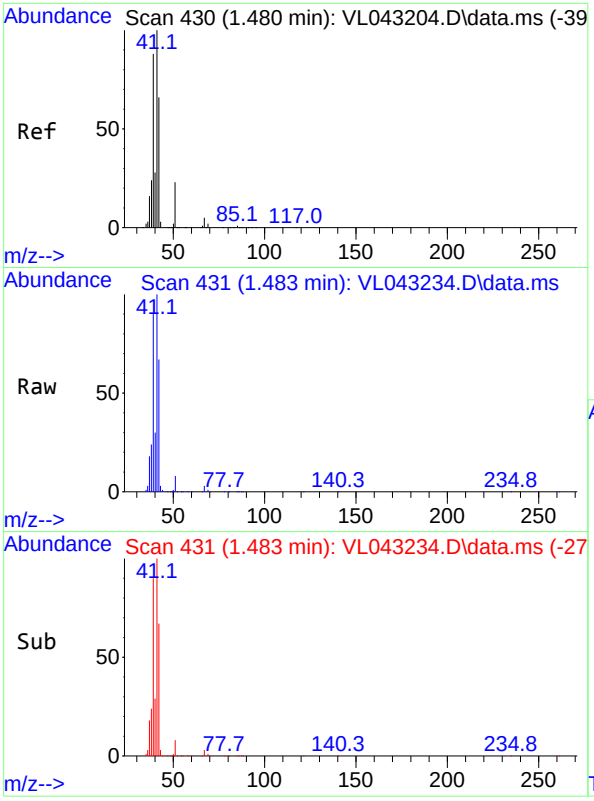


#8
Dichlorotetrafluoroethane
Concen: 10.877 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 85 Resp: 132161

Ion	Ratio	Lower	Upper
85	100		
135	67.7	52.6	79.0

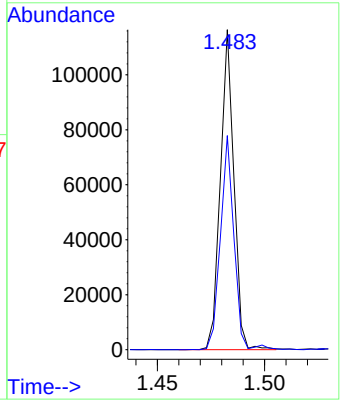




#9
Propene
Concen: 8.348 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 41 Resp: 5092

Ion	Ratio	Lower	Upper
41	100		
42	6.1	3.7	5.5



Instrument :
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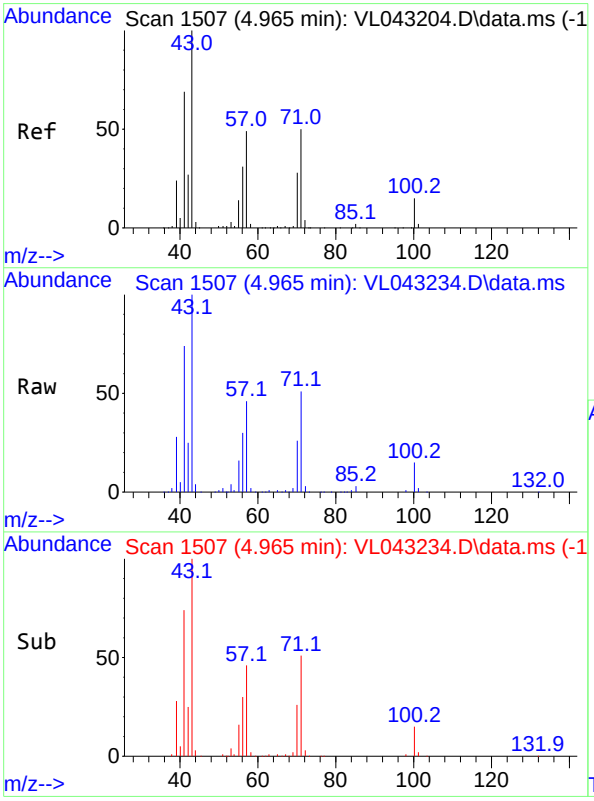
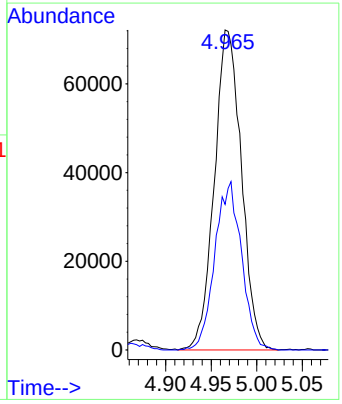
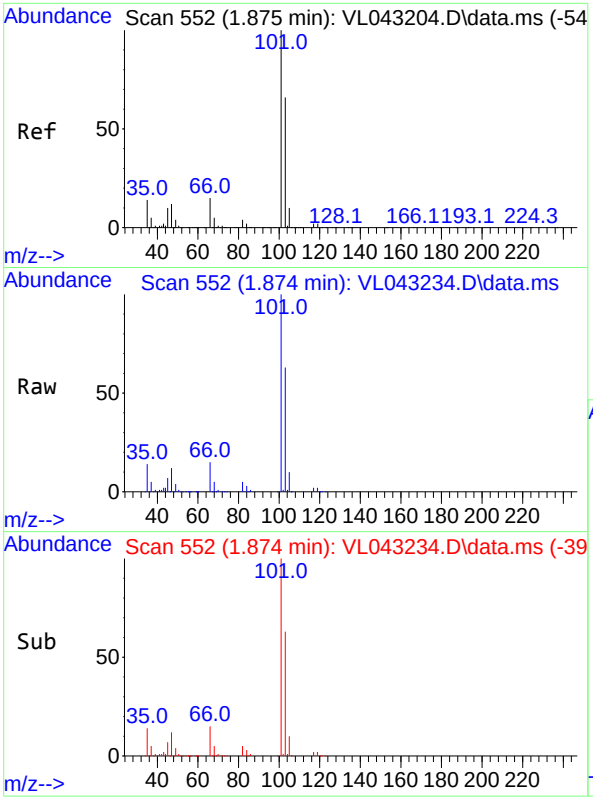


#10
Heptane
Concen: 8.205 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 43 Resp: 148958

Ion	Ratio	Lower	Upper
43	100		
57	51.9	39.7	59.5

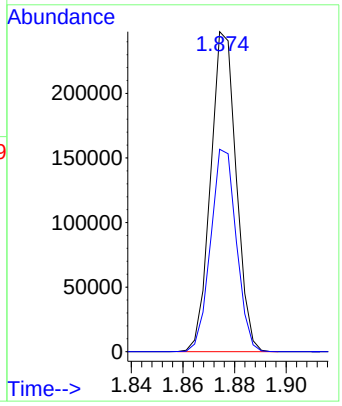




#11
Trichlorofluoromethane
Concen: 12.059 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:101 Resp: 17066

Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.6	79.0



Instrument :
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ClientSampleId :
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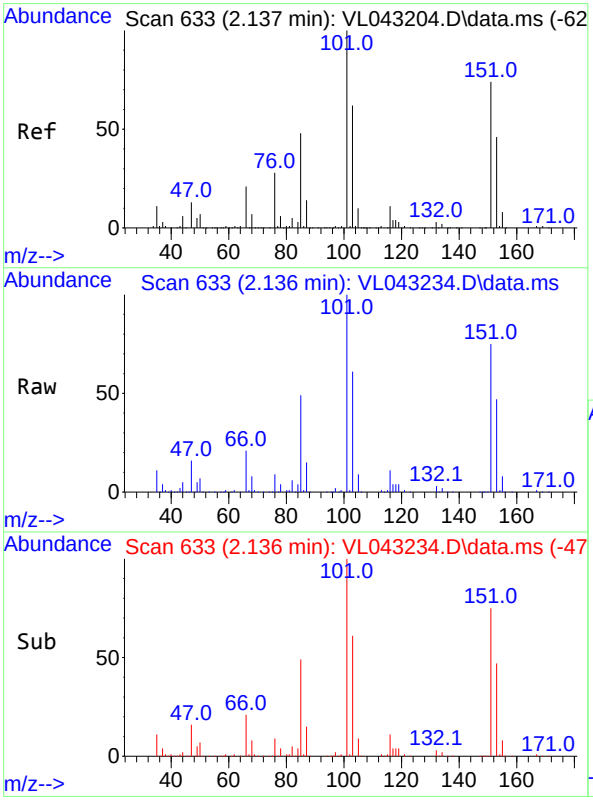
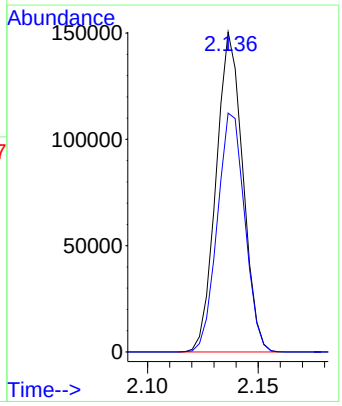
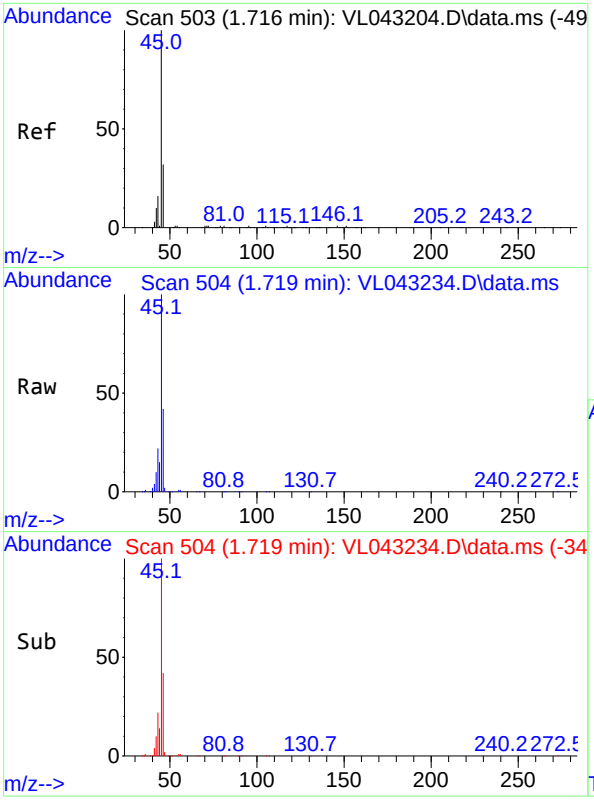


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.431 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:101 Resp: 126291

Ion	Ratio	Lower	Upper
101	100		
151	76.8	59.2	88.8

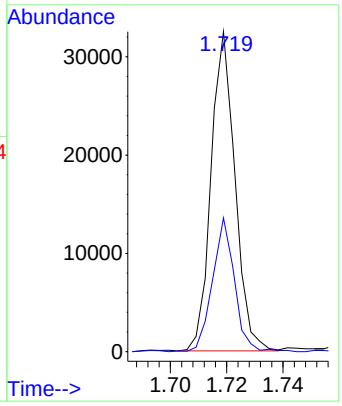




#13
Ethanol
Concen: 8.949 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 45 Resp: 1919

Ion	Ratio	Lower	Upper
45	100		
46	39.1	15.0	59.8



Instrument :
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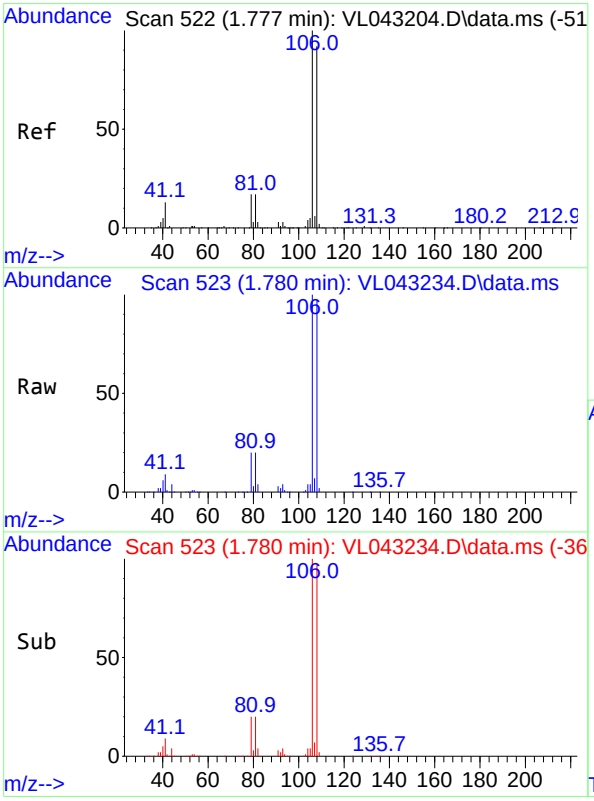
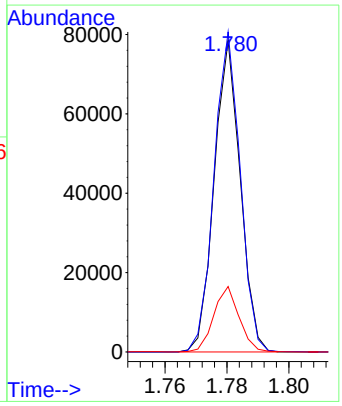
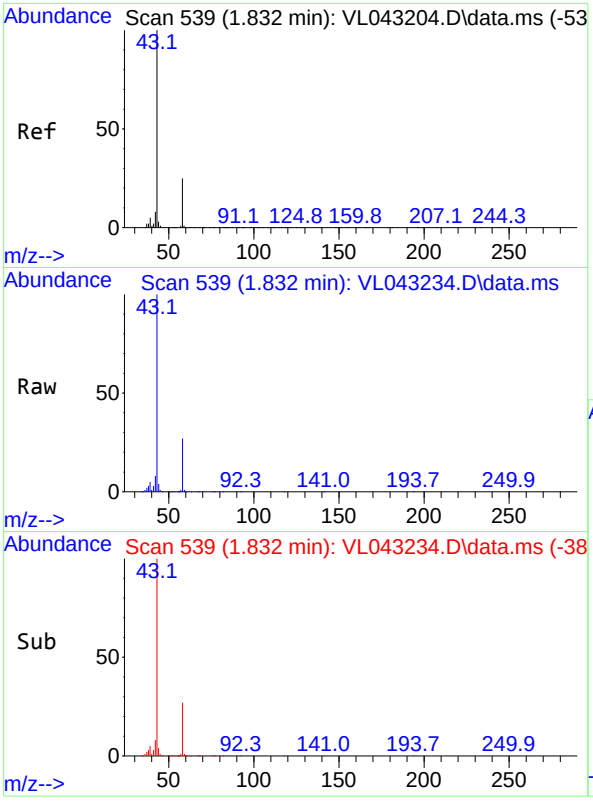


#14
Bromoethene
Concen: 10.827 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:108 Resp: 45857

Ion	Ratio	Lower	Upper
108	100		
106	103.0	88.9	133.3
79	20.7	16.5	24.7

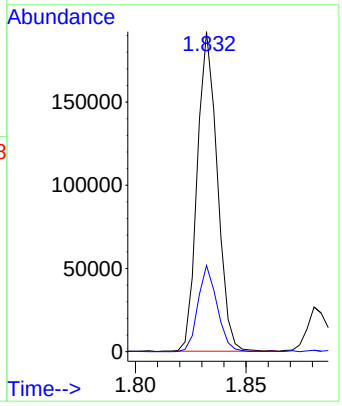




#15
Acetone
Concen: 8.389 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 43 Resp: 12070

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

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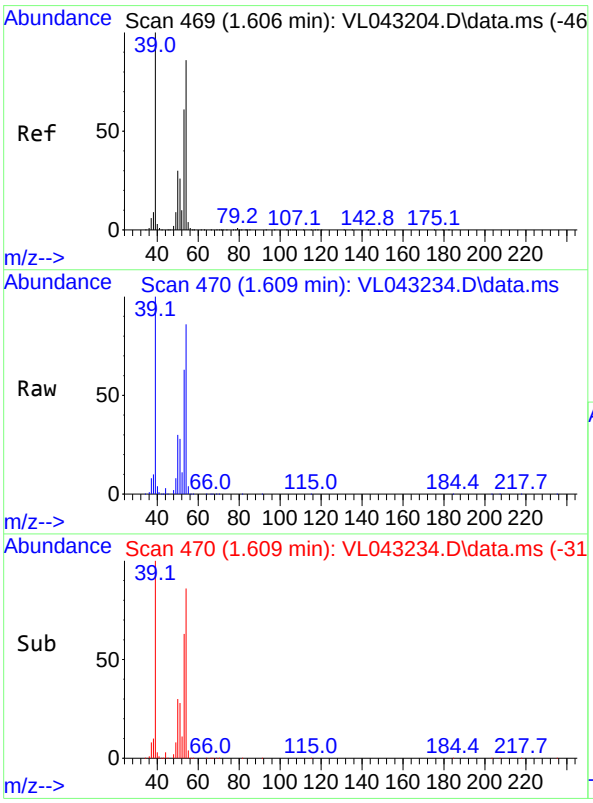
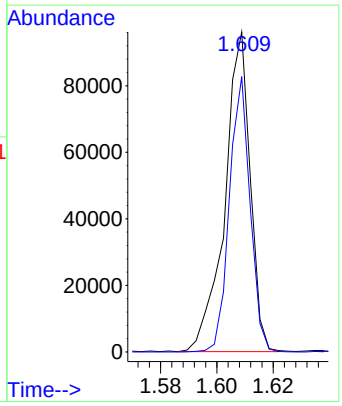
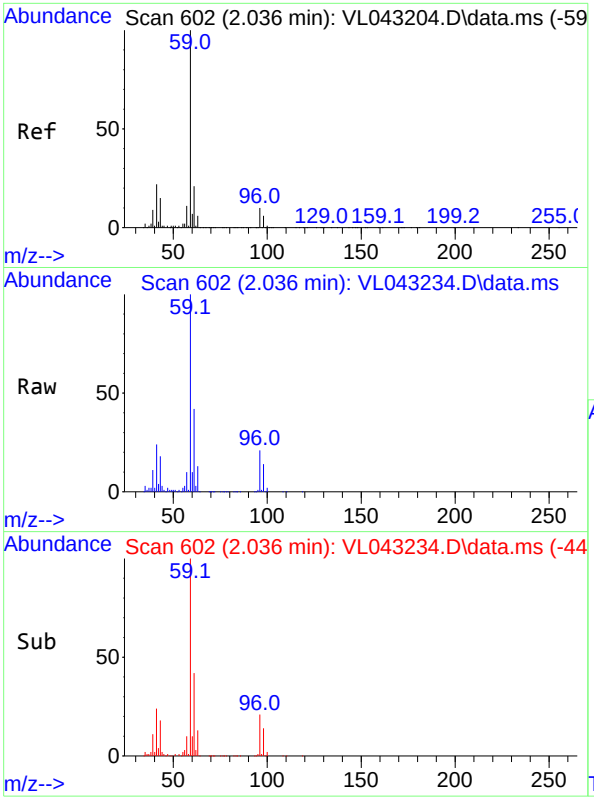


#16
1,3-Butadiene
Concen: 9.371 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 39 Resp: 60112

Ion	Ratio	Lower	Upper
39	100		
54	70.2	59.4	89.2

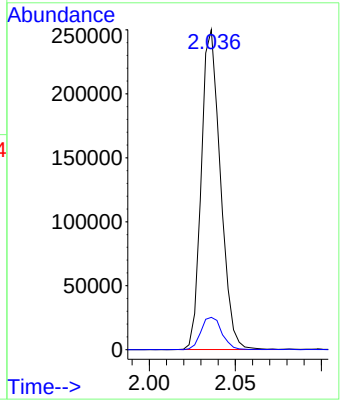




#17
tert-Butyl alcohol
Concen: 10.249 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 59 Resp: 19356

Ion	Ratio	Lower	Upper
59	100		
57	11.4	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

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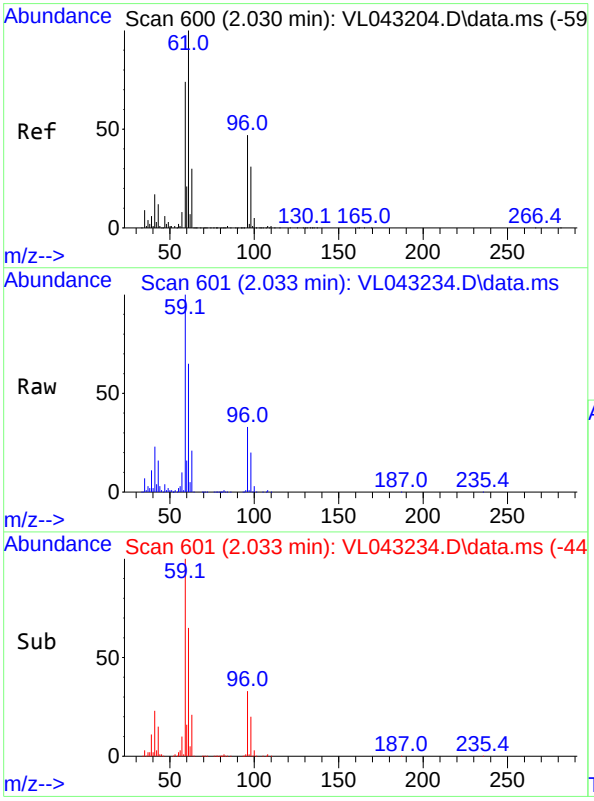
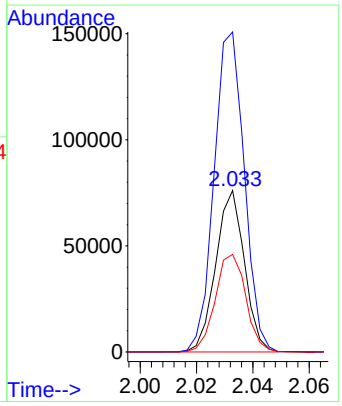
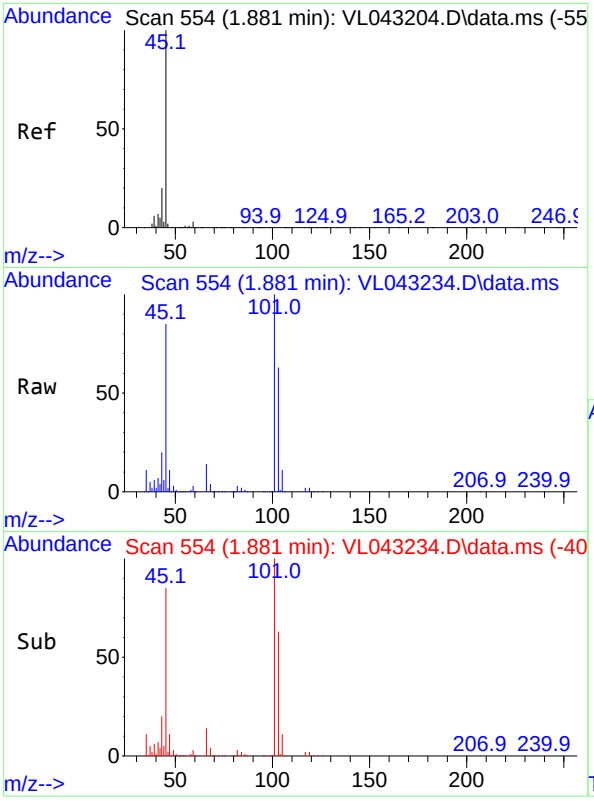


#18
1,1-Dichloroethene
Concen: 10.466 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 96 Resp: 53841

Ion	Ratio	Lower	Upper
96	100		
61	198.1	170.6	255.8
98	60.5	52.2	78.4

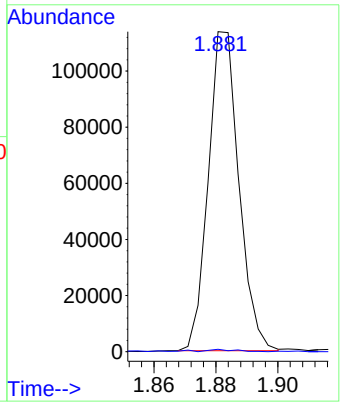




#19
Isopropyl Alcohol
Concen: 9.612 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 45 Resp: 7815

Ion	Ratio	Lower	Upper
45	100		
58	40.1	31.3	46.9



Instrument :
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ClientSampleId :
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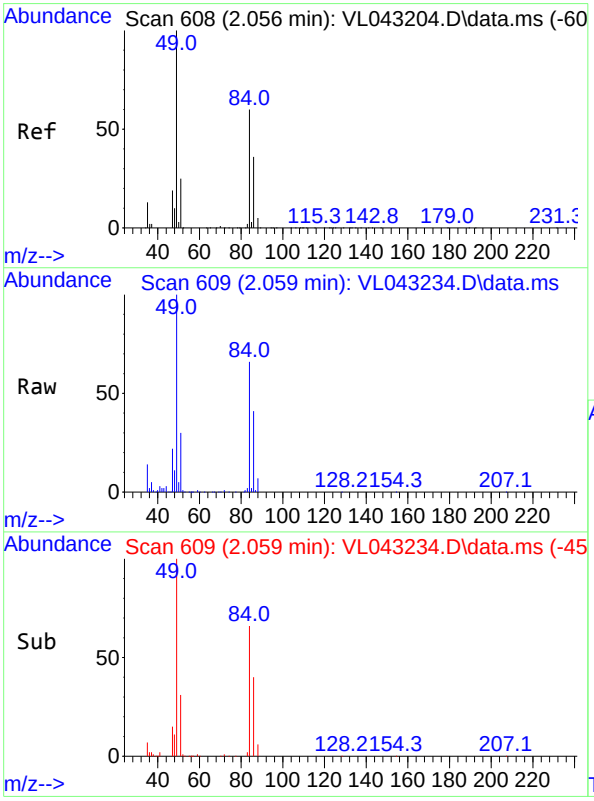
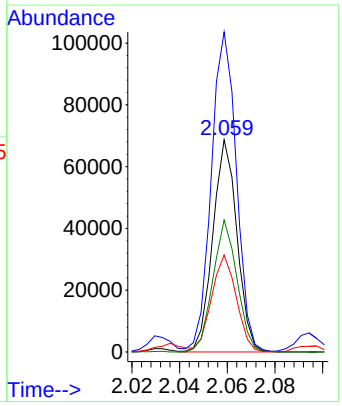
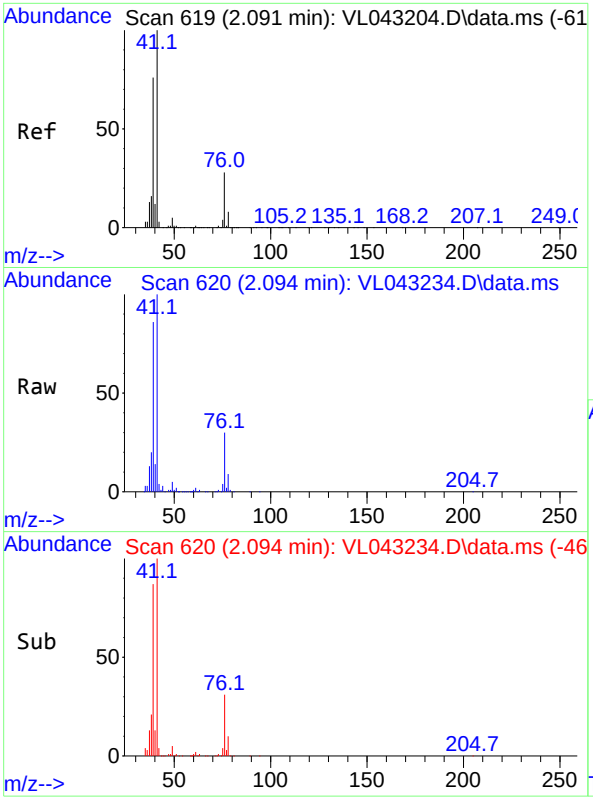


#20
Methylene Chloride
Concen: 11.565 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 84 Resp: 48510

Ion	Ratio	Lower	Upper
84	100		
49	150.3	132.9	199.3
51	45.5	34.8	52.2
86	62.2	48.2	72.2

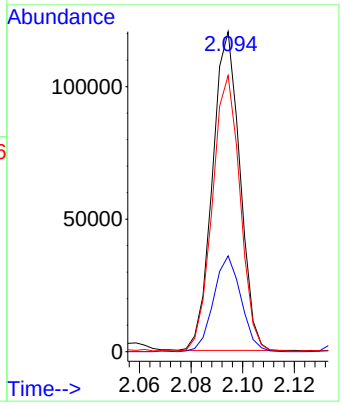




#21
Allyl Chloride
Concen: 9.172 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 41 Resp: 8878

Ion	Ratio	Lower	Upper
41	100		
76	30.3	22.1	33.1
39	86.8	61.0	91.4



Instrument :
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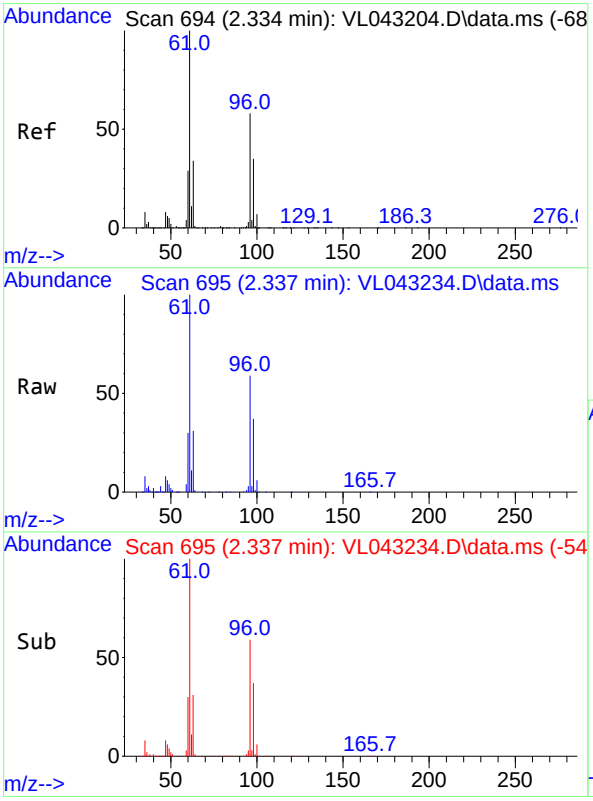
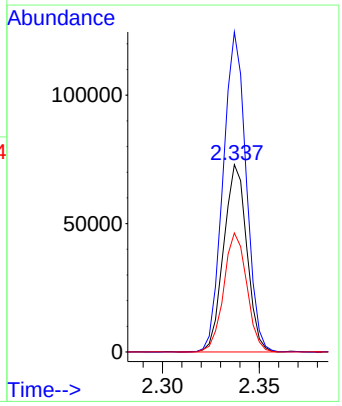
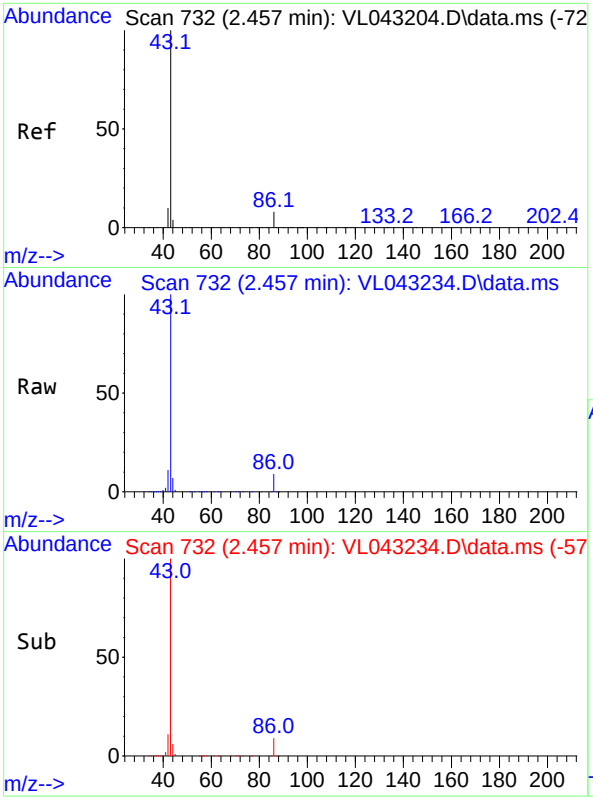


#22
trans-1,2-Dichloroethene
Concen: 10.338 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 96 Resp: 60785

Ion	Ratio	Lower	Upper
96	100		
61	170.8	139.0	208.6
98	63.5	49.4	74.2

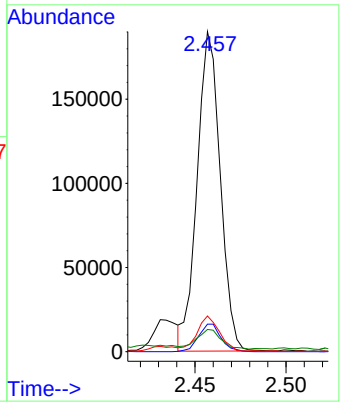




#23
Vinyl Acetate
Concen: 9.620 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 43 Resp: 16710

Ion	Ratio	Lower	Upper
43	100		
86	8.6	6.2	9.2
42	11.0	8.0	12.0
44	5.9	4.0	6.0



Instrument :
MSVOA_L
ClientSampleId :
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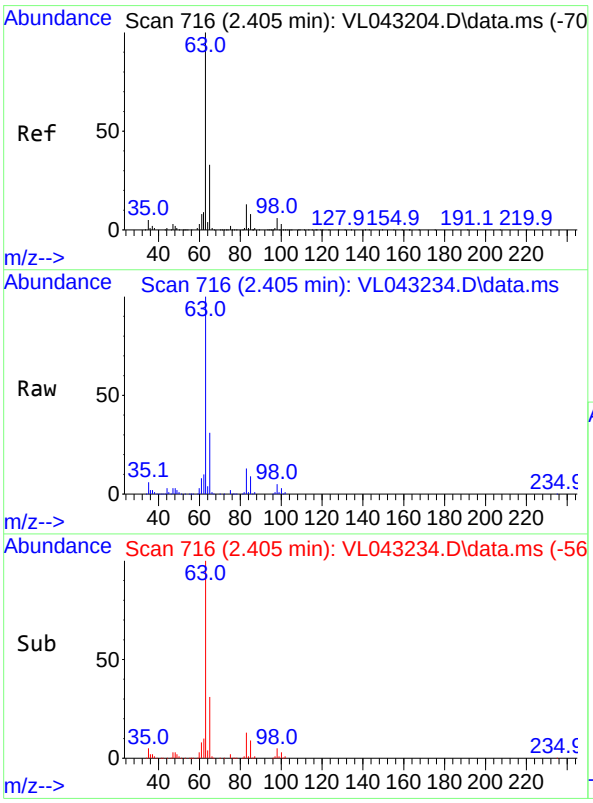
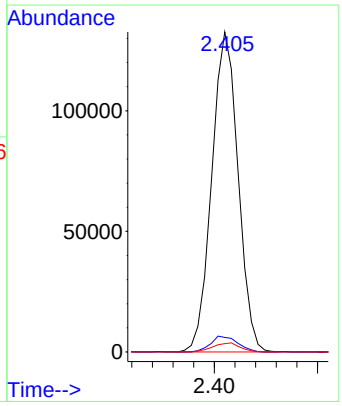
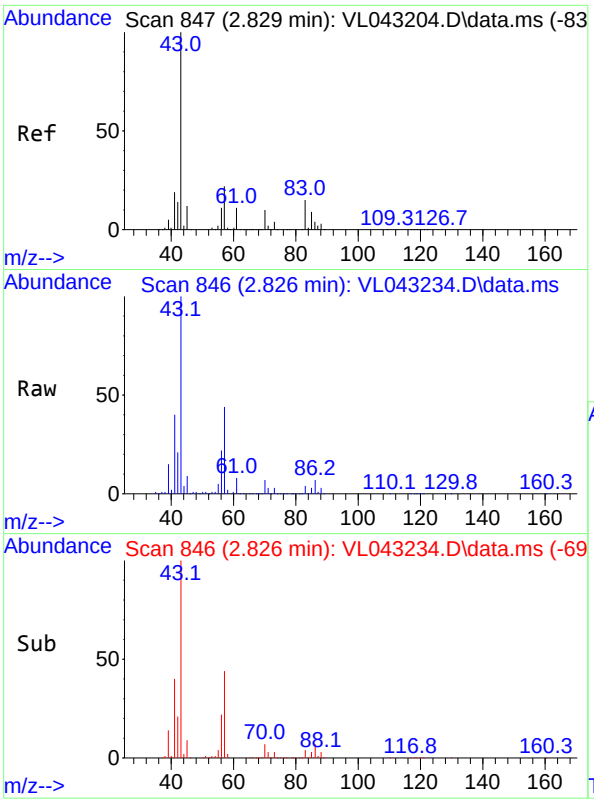


#24
1,1-Dichloroethane
Concen: 10.345 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 63 Resp: 117414

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.8	8.4
100	2.6	1.3	3.9

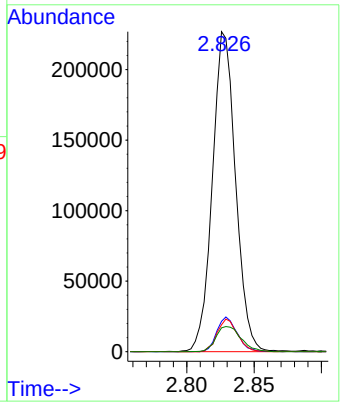




#25
Ethyl Acetate
Concen: 8.761 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.004 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 43 Resp: 27188

Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	9.0	7.0	10.4
70	8.5	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
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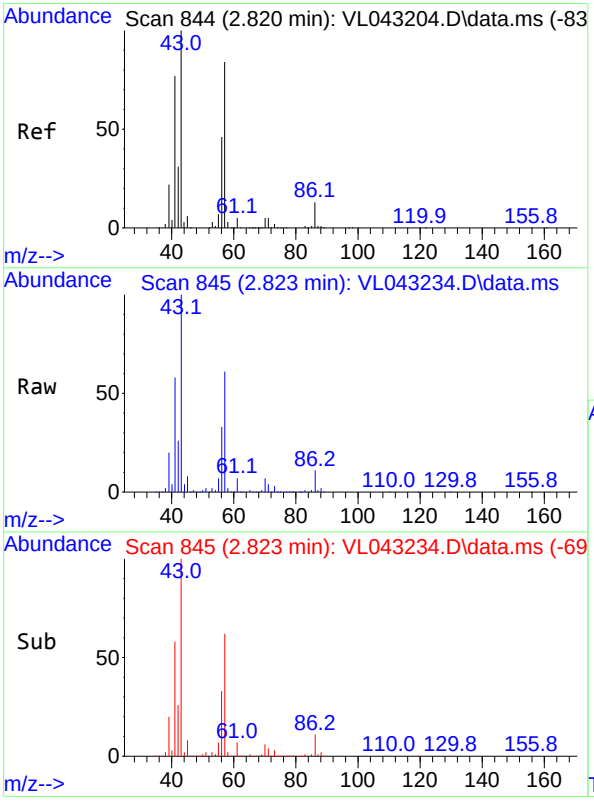
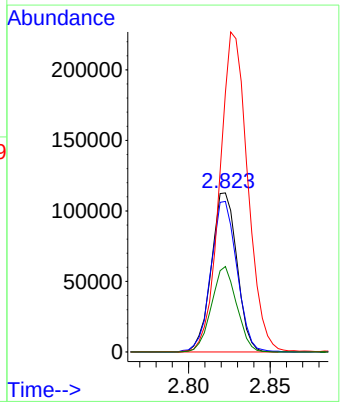
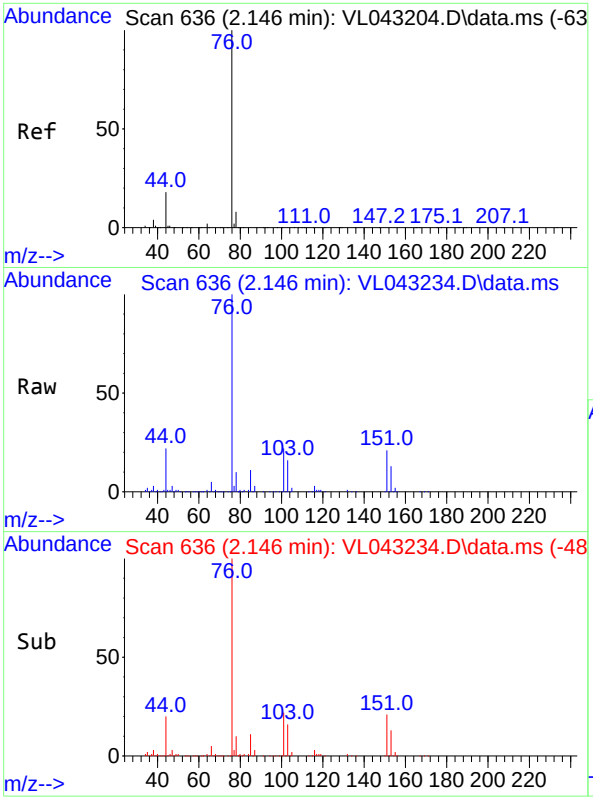


#26
Hexane
Concen: 9.052 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 57 Resp: 123157

Ion	Ratio	Lower	Upper
57	100		
41	96.4	74.6	111.8
43	222.2	179.0	268.4
56	52.7	42.3	63.5

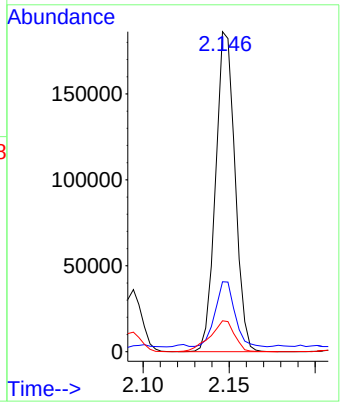




#27
Carbon Disulfide
Concen: 10.510 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 76 Resp: 14598

Ion	Ratio	Lower	Upper
76	100		
44	20.3	16.1	24.1
78	12.2	9.6	14.4



Instrument :
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ClientSampleId :
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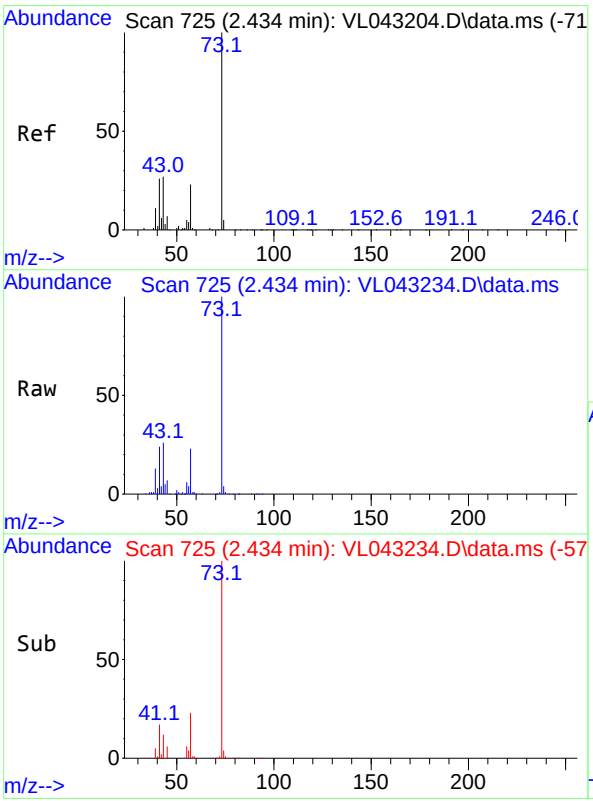
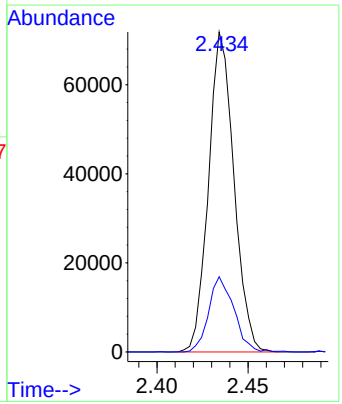
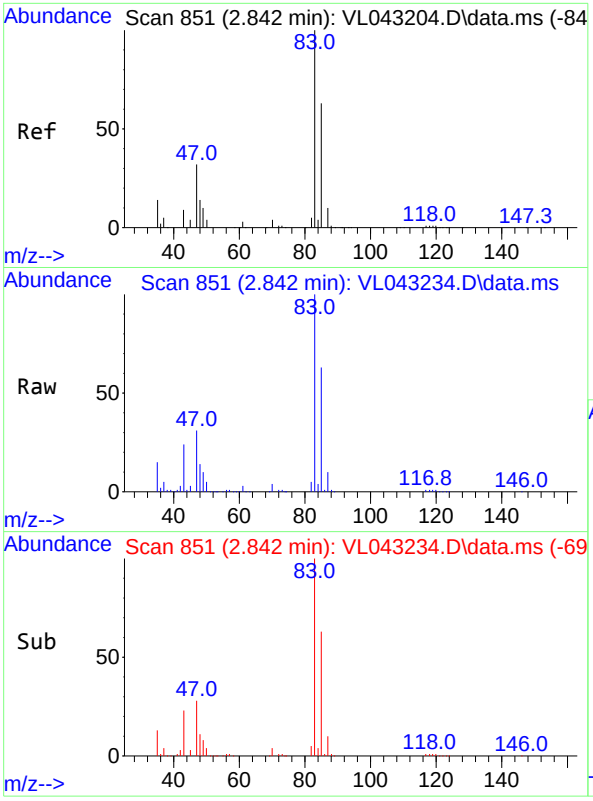


#28
Methyl tert-Butyl Ether
Concen: 10.444 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 73 Resp: 69751

Ion	Ratio	Lower	Upper
73	100		
57	23.5	19.8	29.8

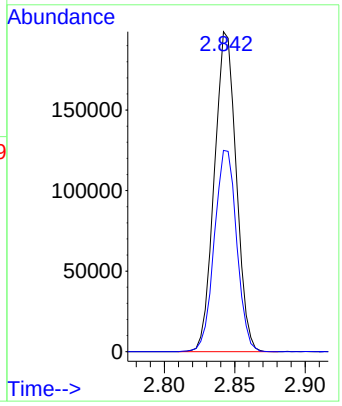




#29
Chloroform
Concen: 11.130 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 83 Resp: 21524

Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.5	75.7



Instrument :
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ClientSampleId :
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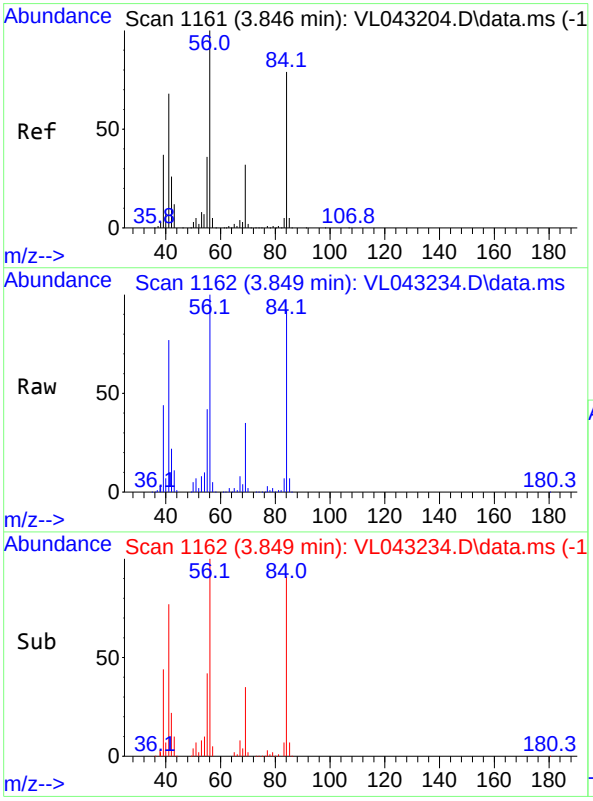
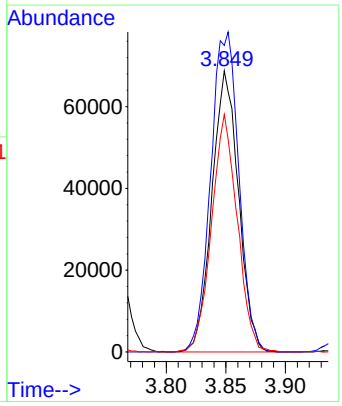
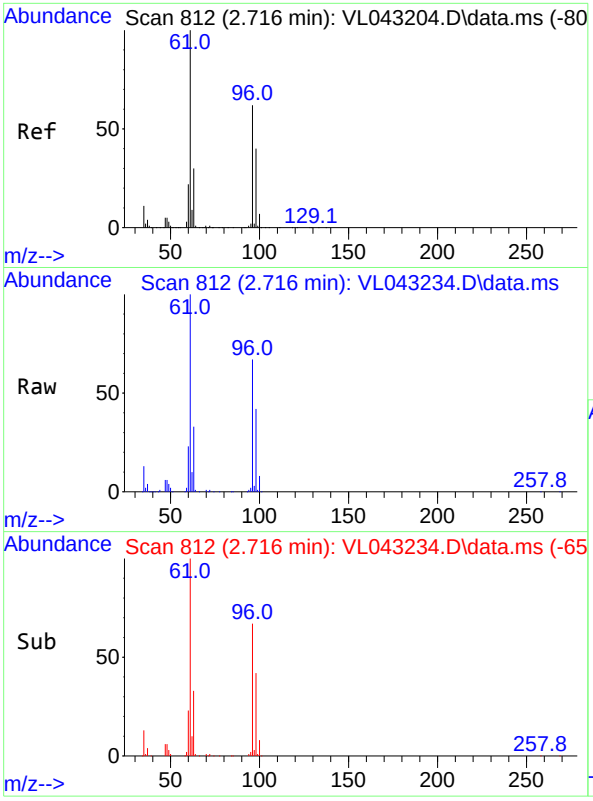


#30
Cyclohexane
Concen: 9.344 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 84 Resp: 106579

Ion	Ratio	Lower	Upper
84	100		
56	120.8	104.7	157.1
41	82.0	69.0	103.6

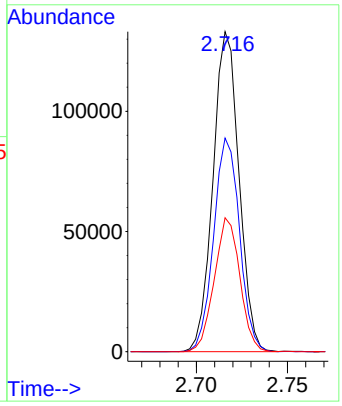




#31
cis-1,2-Dichloroethene
Concen: 9.770 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 61 Resp: 13212

Ion	Ratio	Lower	Upper
61	100		
96	66.8	49.3	73.9
98	41.9	32.1	48.1



Instrument :
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ClientSampleId :
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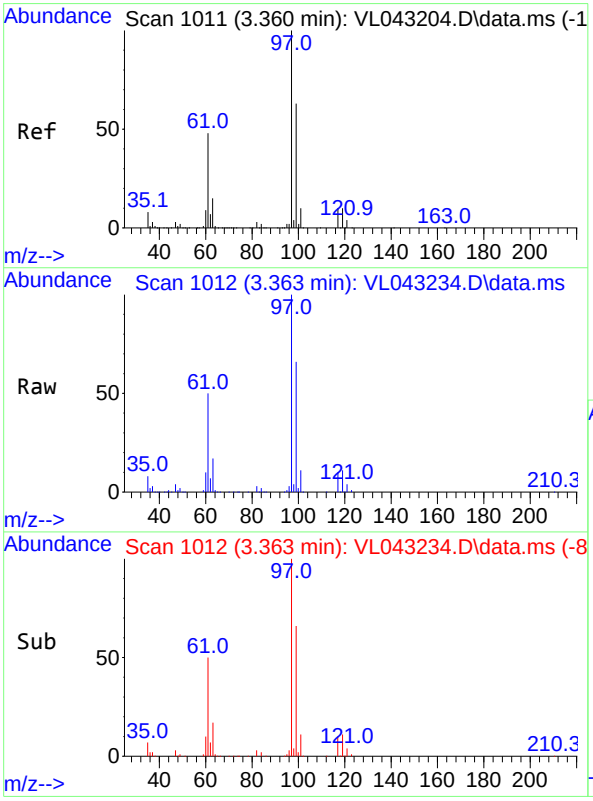
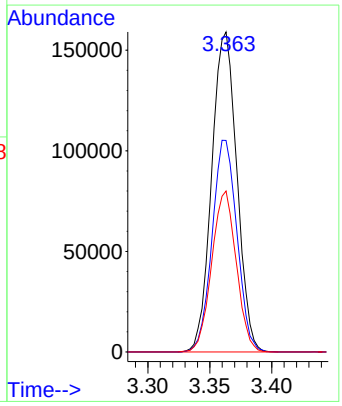
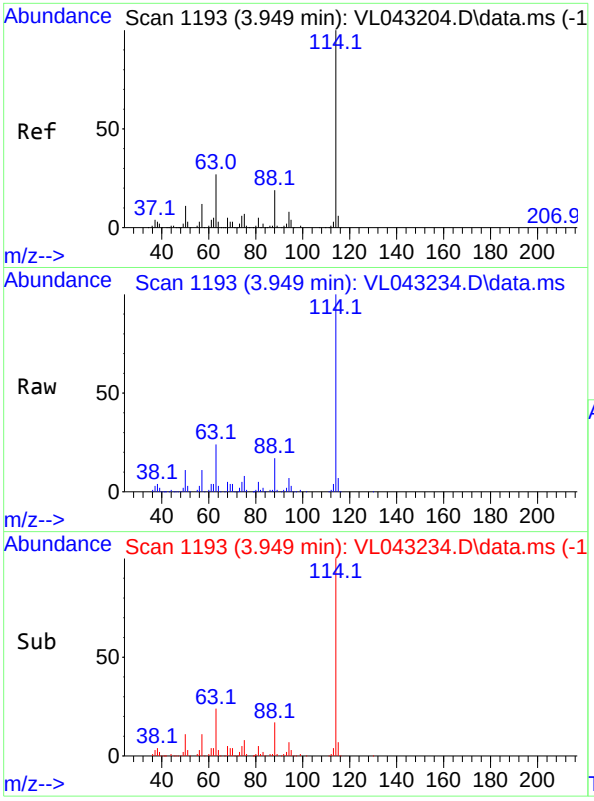


#32
1,1,1-Trichloroethane
Concen: 10.934 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 97 Resp: 225383

Ion	Ratio	Lower	Upper
97	100		
99	65.3	50.3	75.5
61	49.0	38.9	58.3

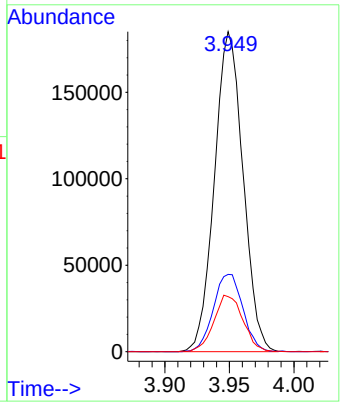




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:114 Resp: 28467

Ion	Ratio	Lower	Upper
114	100		
63	25.0	21.0	31.6
88	18.0	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

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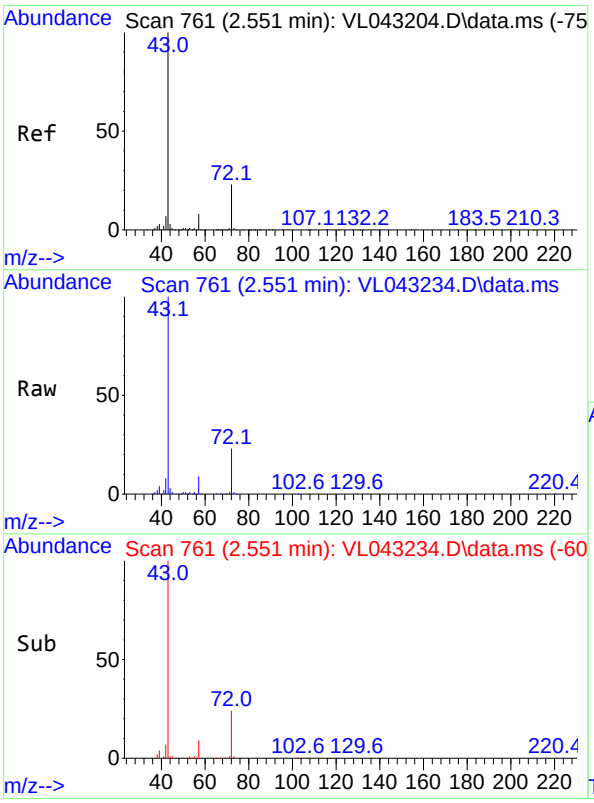
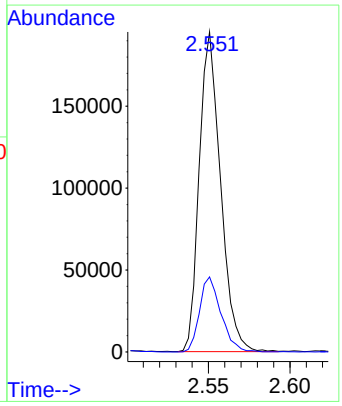
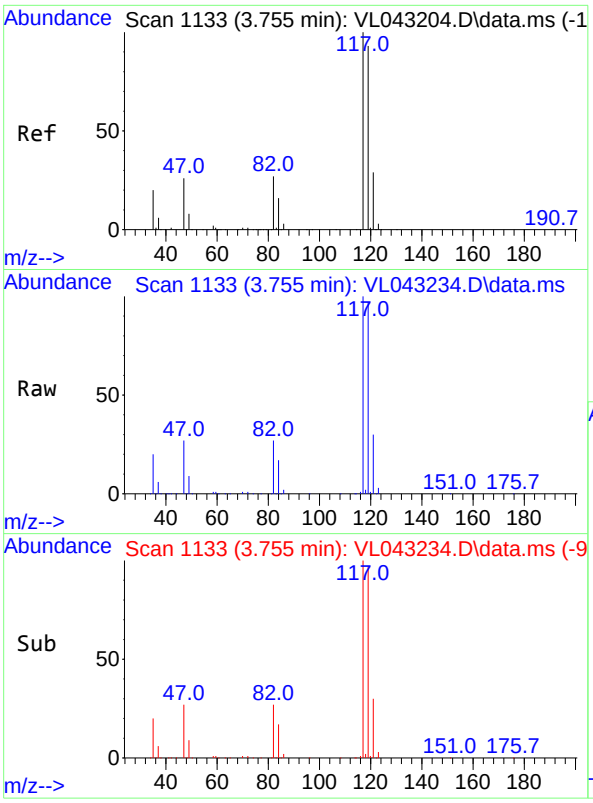


#34
2-Butanone
Concen: 8.825 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 43 Resp: 177332

Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.1	27.1

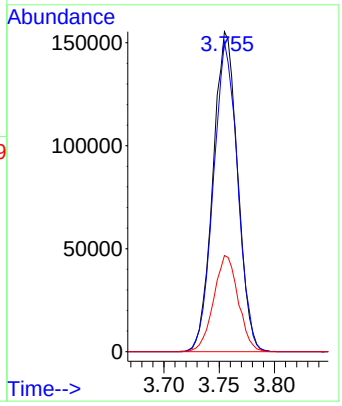




#35
Carbon Tetrachloride
Concen: 11.114 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:117 Resp: 24015

Ion	Ratio	Lower	Upper
117	100		
119	96.7	74.6	112.0
121	30.1	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
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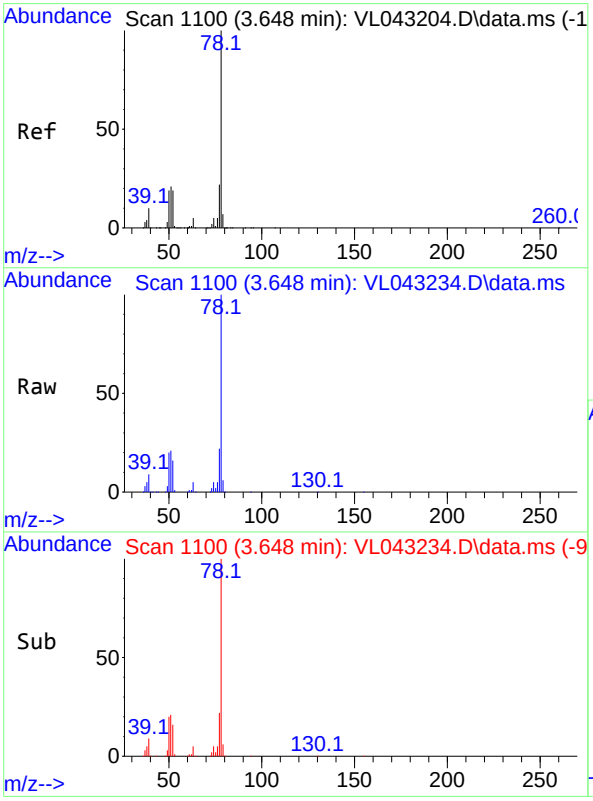
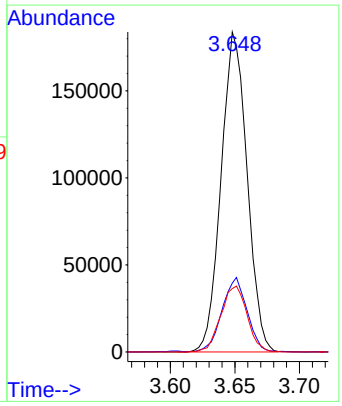
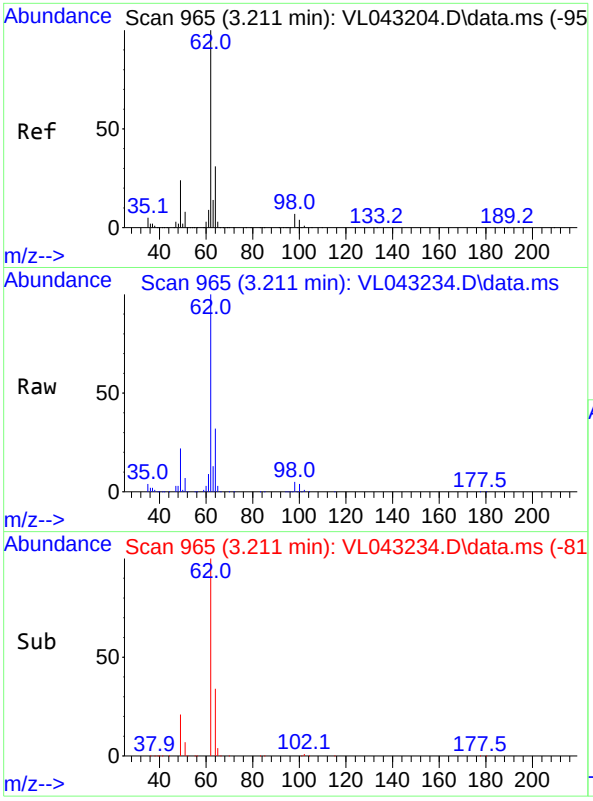


#36
Benzene
Concen: 9.427 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 78 Resp: 257003

Ion	Ratio	Lower	Upper
78	100		
77	21.2	17.5	26.3
50	19.8	15.5	23.3





#37
1,2-Dichloroethane
Concen: 10.630 ppbv
RT: 3.211 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 62 Resp: 16951

Ion	Ratio	Lower	Upper
62	100		
98	6.0	5.5	8.3

Instrument :
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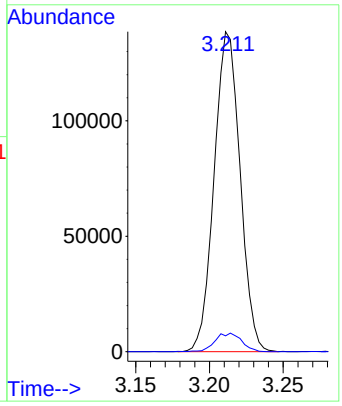
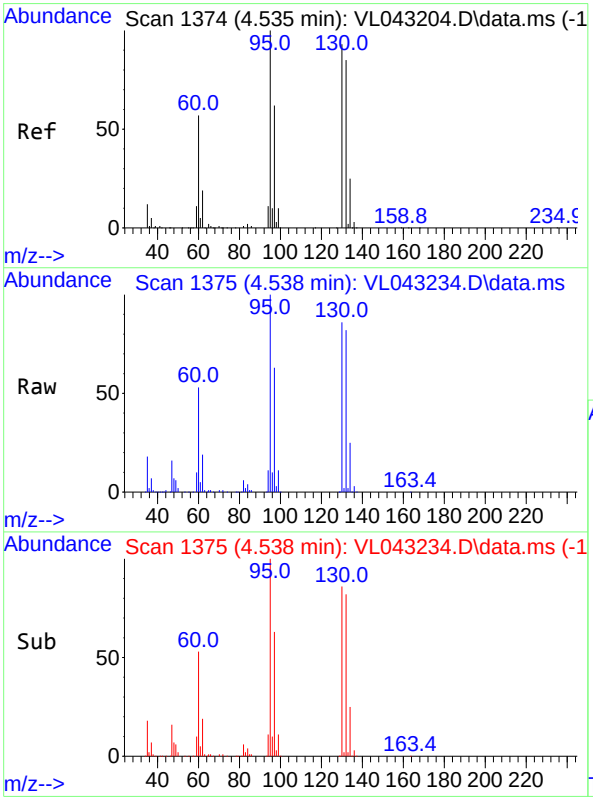
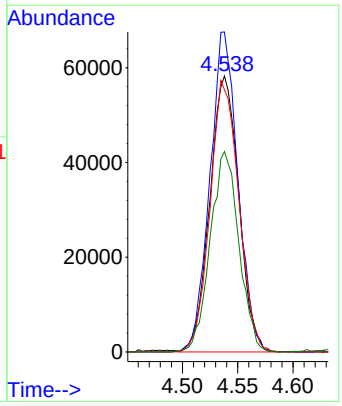


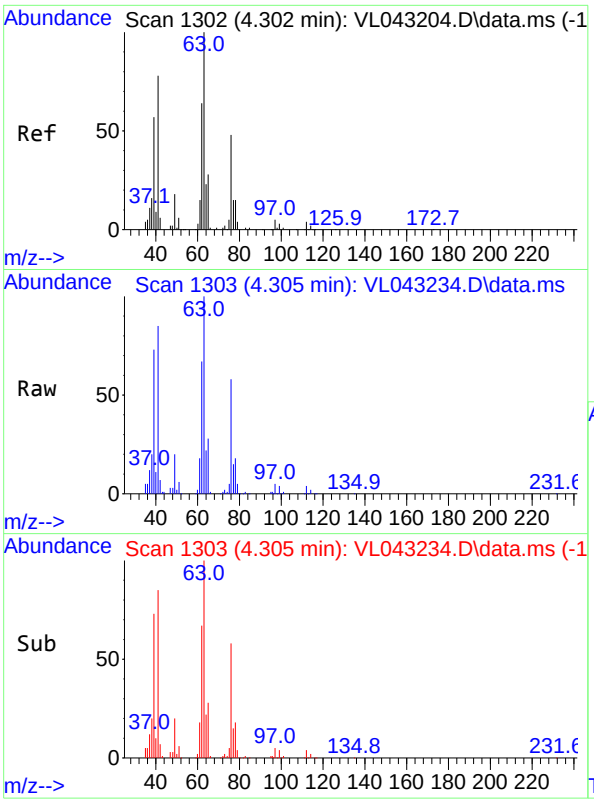


#38
Trichloroethene
Concen: 9.965 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:130 Resp: 106290

Ion	Ratio	Lower	Upper
130	100		
95	115.8	85.7	128.5
132	94.9	73.4	110.0
97	72.6	52.7	79.1

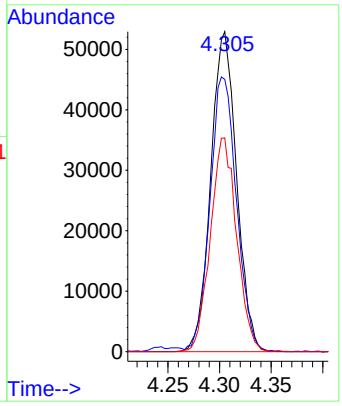




#39
1,2-Dichloropropane
Concen: 9.228 ppbv
RT: 4.305 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 63 Resp: 9207

Ion	Ratio	Lower	Upper
63	100		
41	84.8	62.6	93.8
62	66.6	51.0	76.6



Instrument :
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ClientSampleId :
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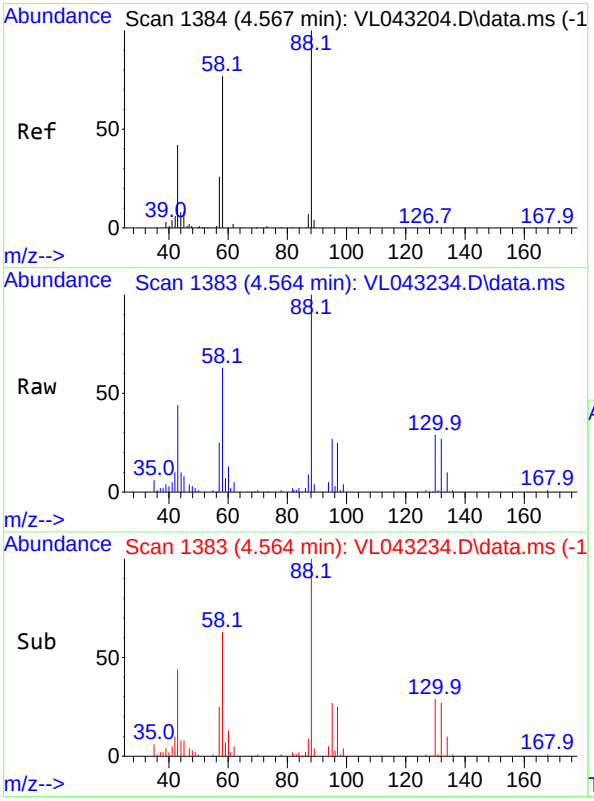
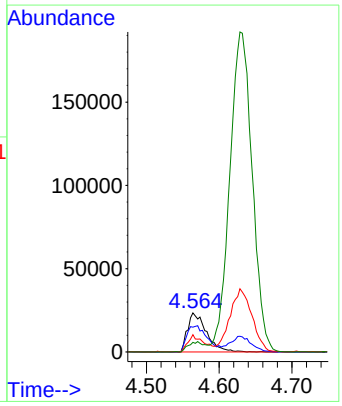
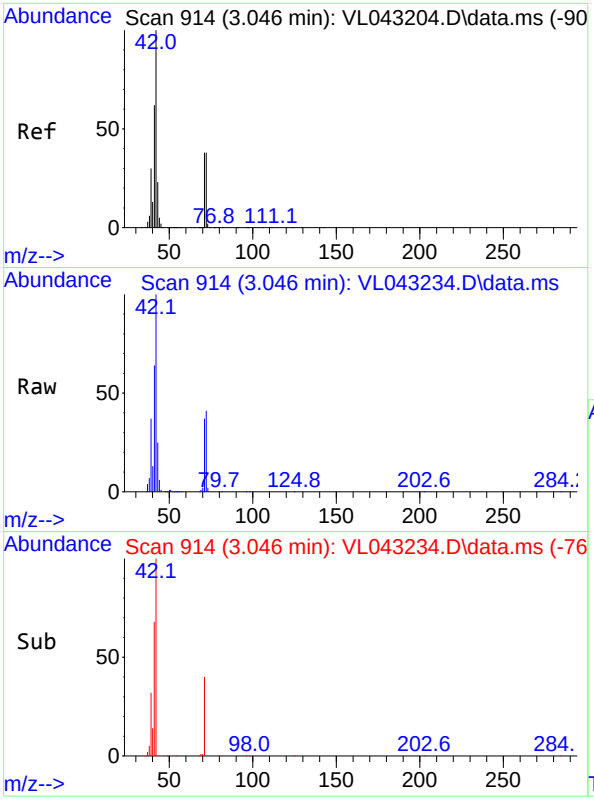


#40
1,4-Dioxane
Concen: 9.366 ppbv m
RT: 4.564 min Scan# 1383
Delta R.T. -0.004 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 88 Resp: 42013

Ion	Ratio	Lower	Upper
88	100		
58	0.0	63.0	94.6#
43	37.2	32.5	48.7
57	0.0	0.0	0.0

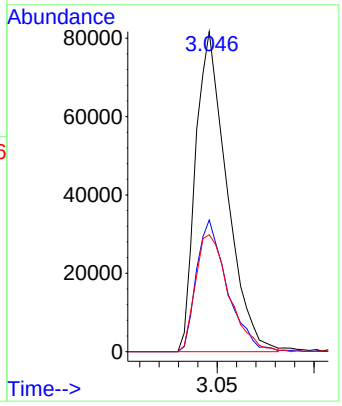




#41
Tetrahydrofuran
Concen: 8.252 ppbv
RT: 3.046 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 42 Resp: 9157

Ion	Ratio	Lower	Upper
42	100		
72	40.6	30.6	46.0
71	39.4	30.5	45.7



Instrument :
MSVOA_L
ClientSampleId :
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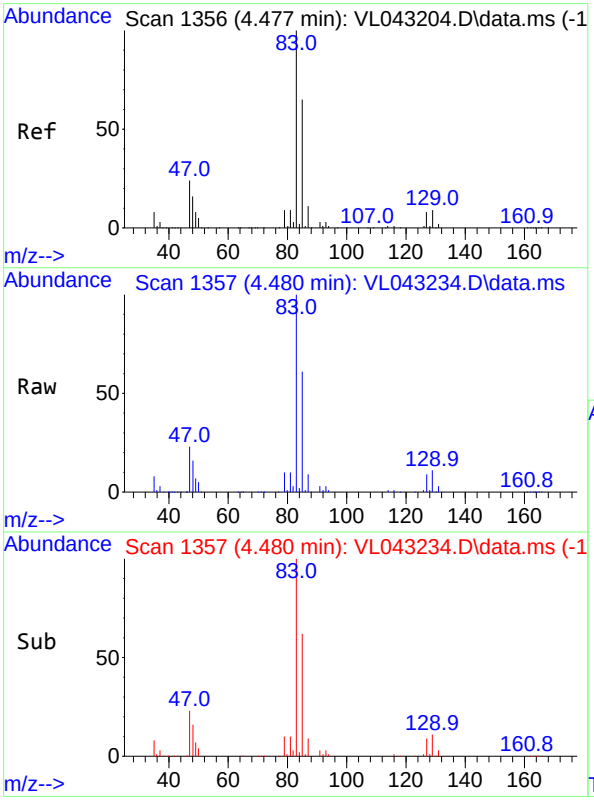
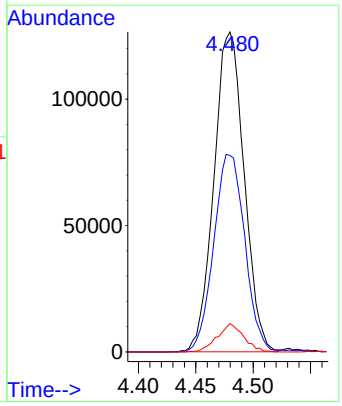
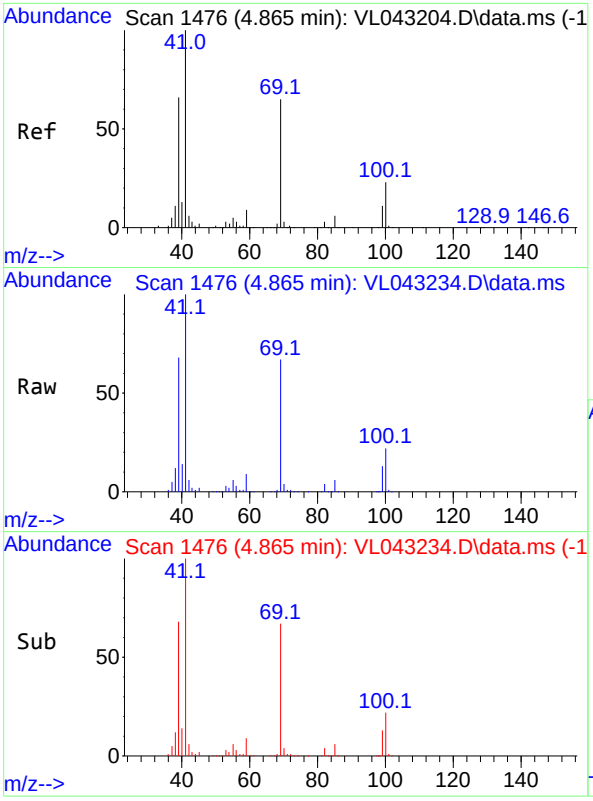


#42
Bromodichloromethane
Concen: 10.535 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 83 Resp: 231745

Ion	Ratio	Lower	Upper
83	100		
85	61.4	51.7	77.5
127	8.9	6.3	9.5

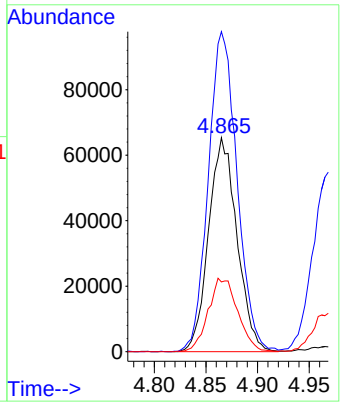




#43
Methyl Methacrylate
Concen: 8.645 ppbv
RT: 4.865 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 69 Resp: 12510

Ion	Ratio	Lower	Upper
69	100		
41	151.3	126.7	190.1
100	35.6	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
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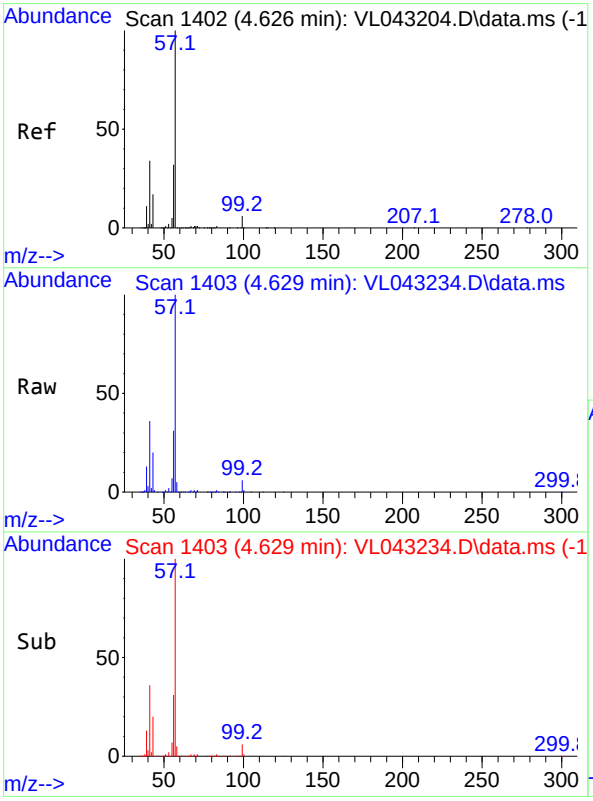
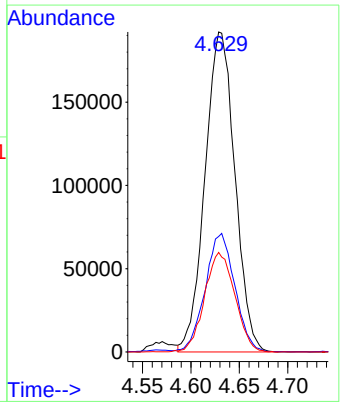
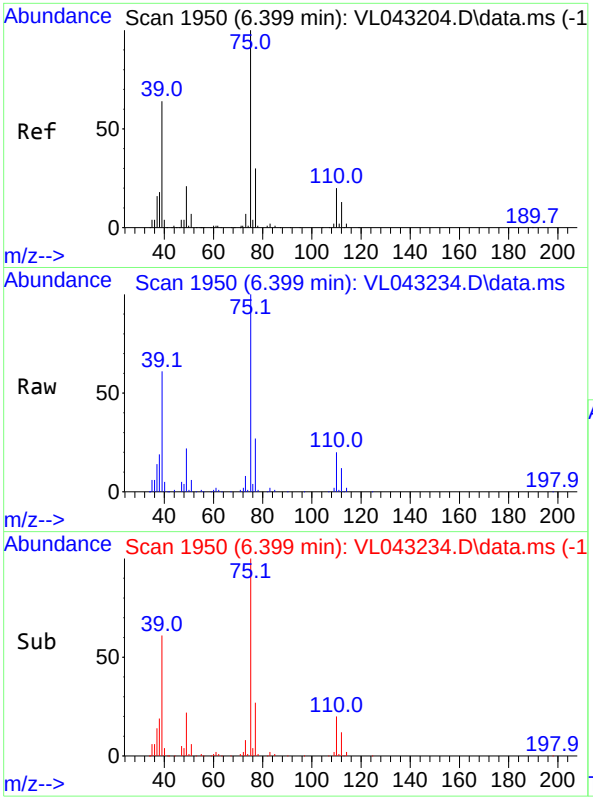


#44
2,2,4-Trimethylpentane
Concen: 8.817 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 57 Resp: 412813

Ion	Ratio	Lower	Upper
57	100		
41	37.5	28.0	42.0
56	31.6	25.6	38.4

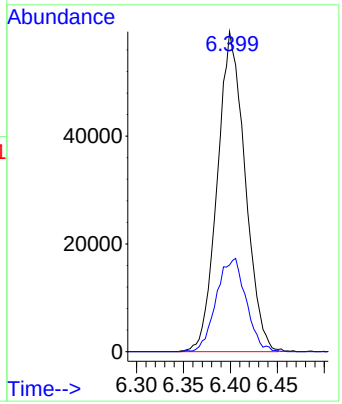




#45
t-1,3-Dichloropropene
Concen: 9.039 ppbv
RT: 6.399 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 75 Resp: 12192

Ion	Ratio	Lower	Upper
75	100		
77	27.1	24.3	36.5



Instrument :
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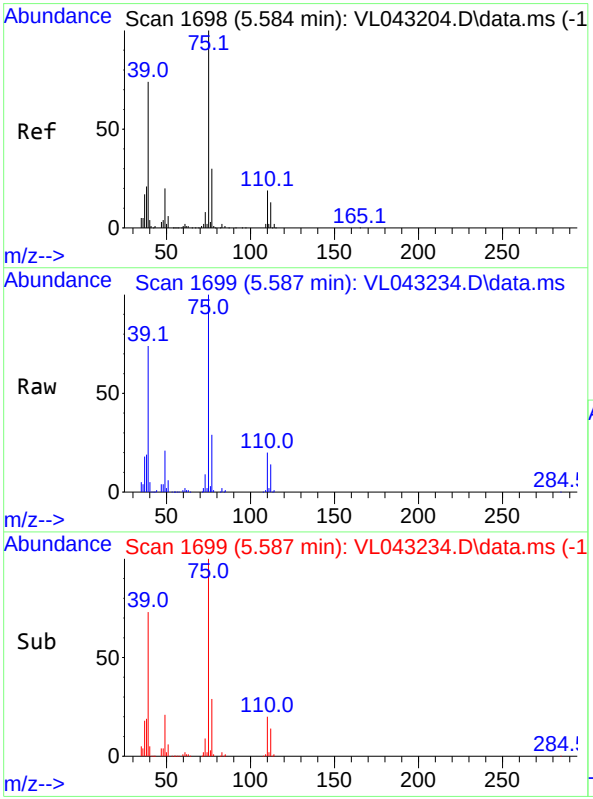
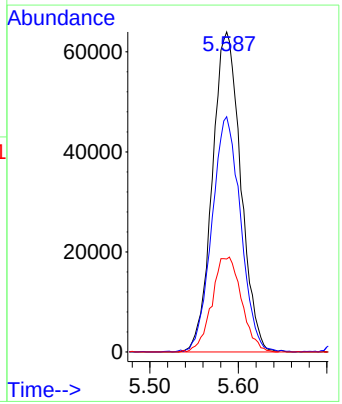
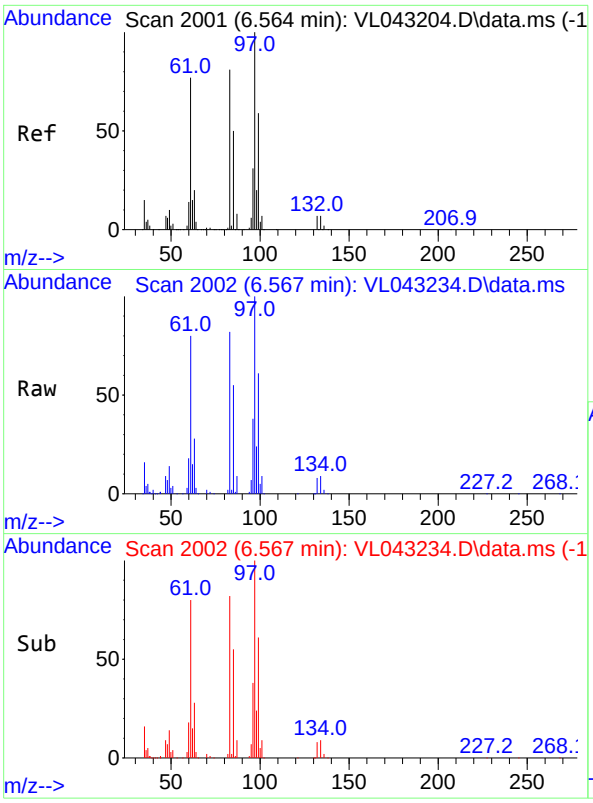


#46
cis-1,3-Dichloropropene
Concen: 8.987 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 75 Resp: 142340

Ion	Ratio	Lower	Upper
75	100		
39	73.3	59.1	88.7
77	29.0	24.2	36.2

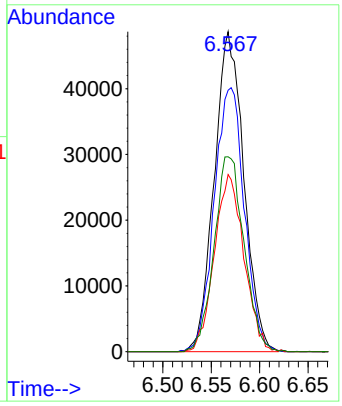




#47
1,1,2-Trichloroethane
Concen: 9.749 ppbv
RT: 6.567 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 97 Resp: 10323

Ion	Ratio	Lower	Upper
97	100		
83	81.7	64.6	97.0
85	55.3	39.4	59.2
99	60.9	47.0	70.6



Instrument :
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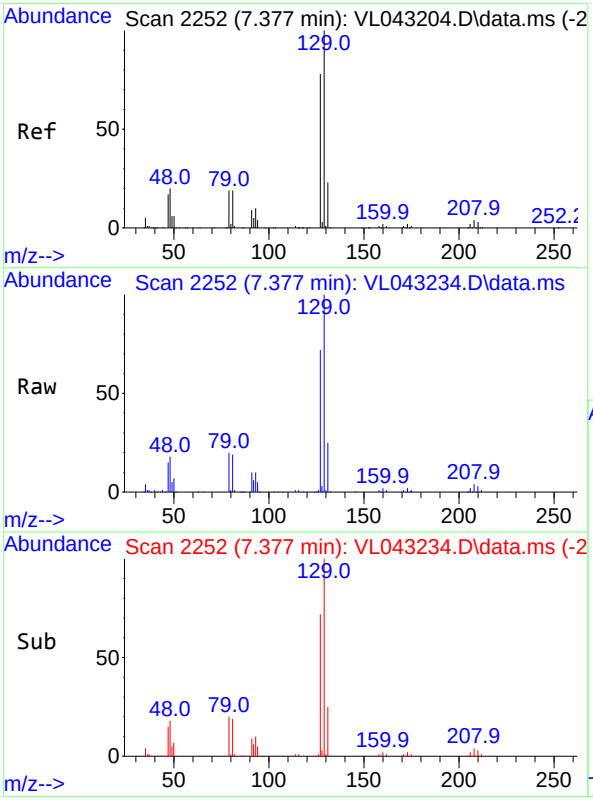
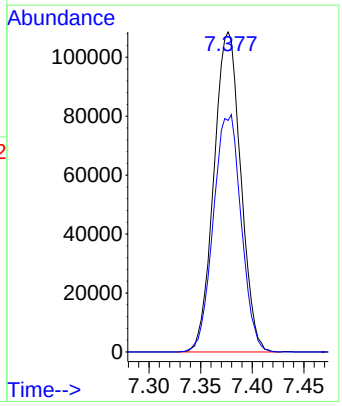
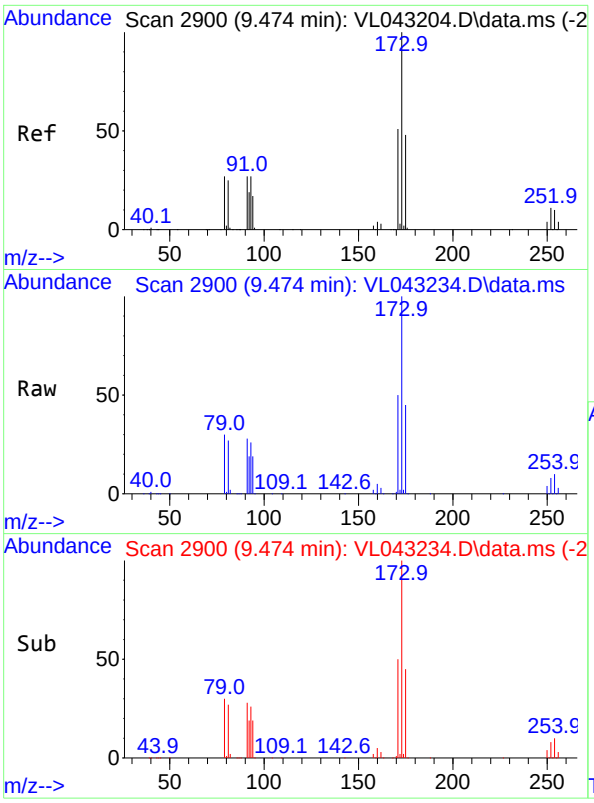


#48
Dibromochloromethane
Concen: 10.799 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:129 Resp: 196614

Ion	Ratio	Lower	Upper
129	100		
127	76.8	39.3	117.9

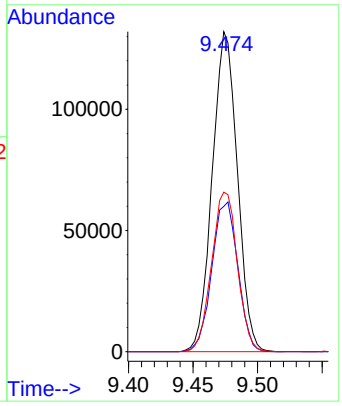




#49
Bromoform
Concen: 11.069 ppbv
RT: 9.474 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:173 Resp: 17849

Ion	Ratio	Lower	Upper
173	100		
175	48.5	38.6	58.0
171	51.2	40.6	61.0



Instrument :
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ClientSampleId :
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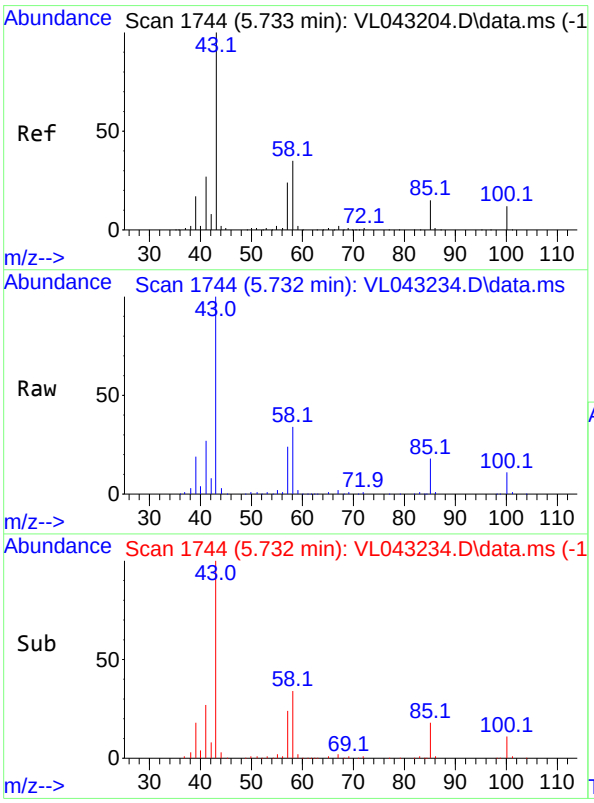
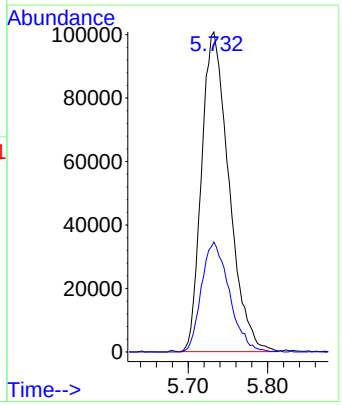
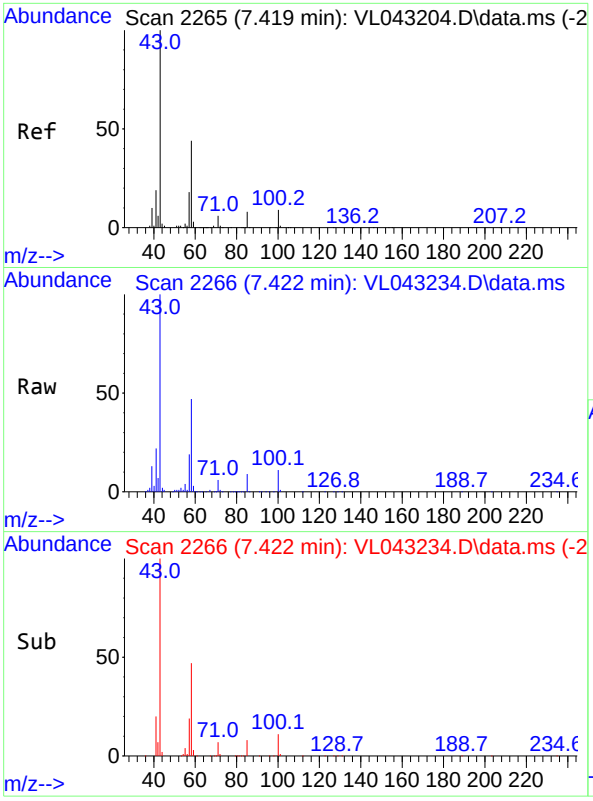


#50
4-Methyl-2-Pentanone
Concen: 8.526 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 43 Resp: 241341

Ion	Ratio	Lower	Upper
43	100		
58	35.1	28.4	42.6

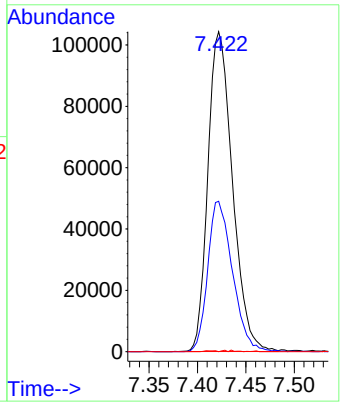




#51
2-Hexanone
Concen: 8.375 ppbv
RT: 7.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 43 Resp: 18409

Ion	Ratio	Lower	Upper
43	100		
58	47.5	38.4	57.6
98	0.2	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

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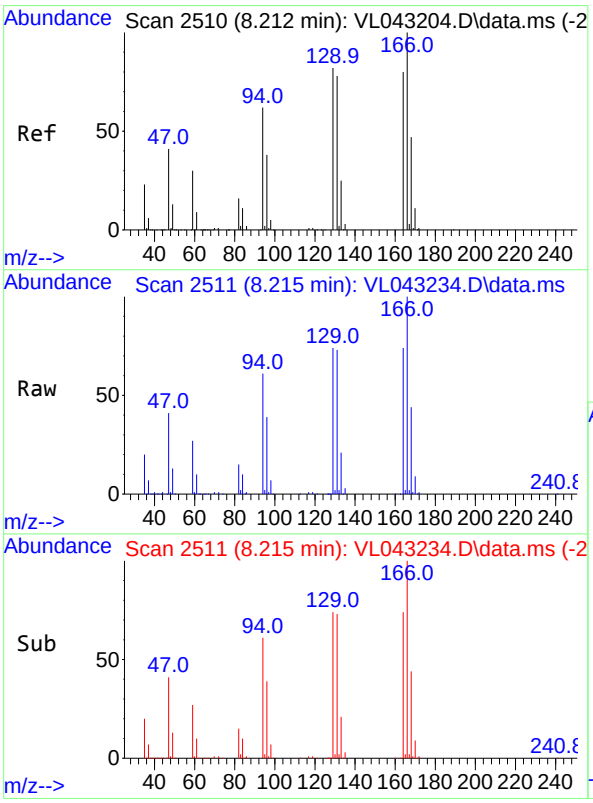
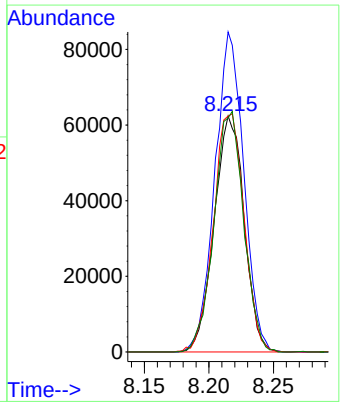
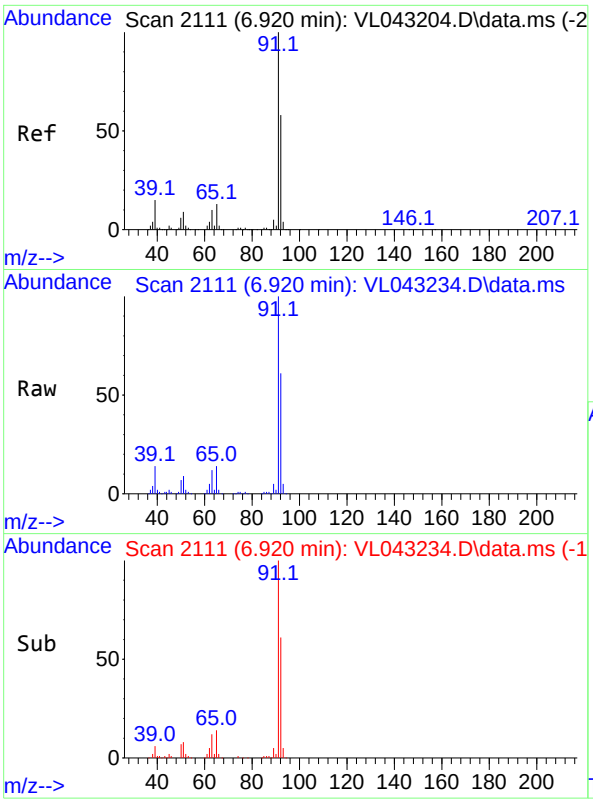


#52
Tetrachloroethene
Concen: 9.913 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:164 Resp: 100528

Ion	Ratio	Lower	Upper
164	100		
166	135.5	99.4	149.2
129	99.6	81.8	122.8
131	99.0	77.4	116.2

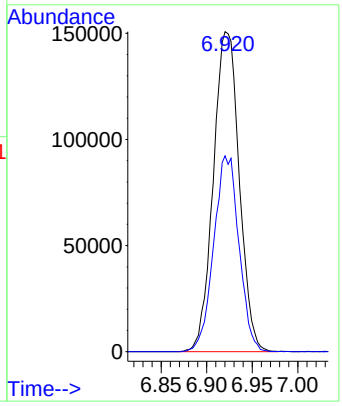




#53
Toluene
Concen: 9.253 ppbv
RT: 6.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 91 Resp: 29869

Ion	Ratio	Lower	Upper
91	100		
92	59.6	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

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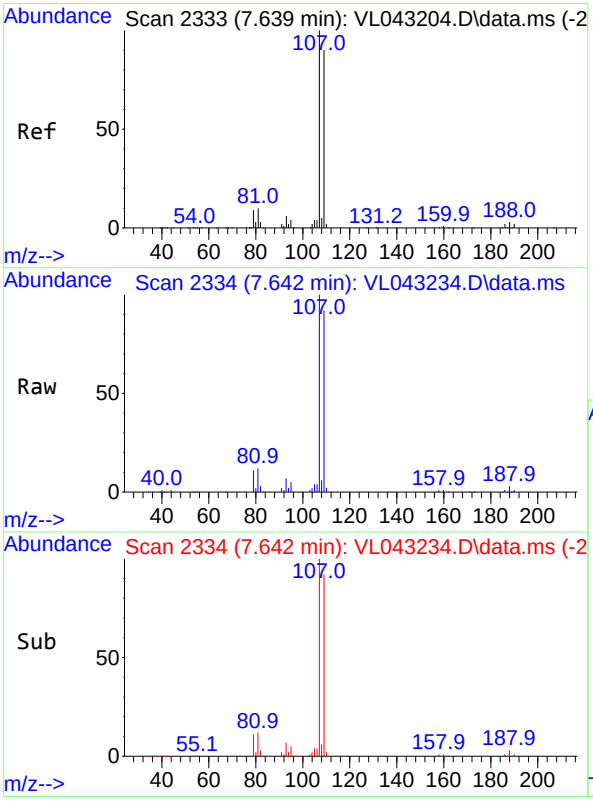
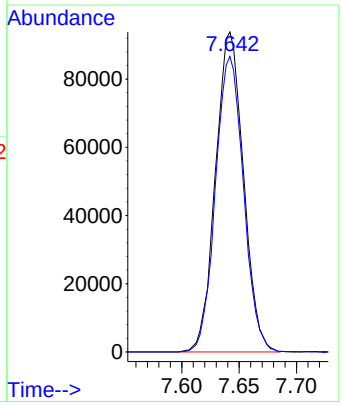
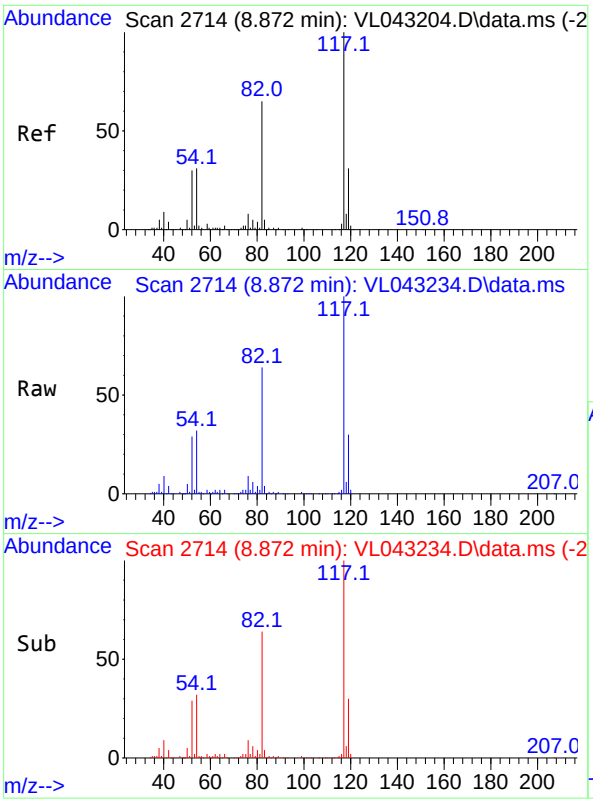


#54
1,2-Dibromoethane
Concen: 10.196 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:107 Resp: 158882

Ion	Ratio	Lower	Upper
107	100		
109	92.3	72.1	108.1

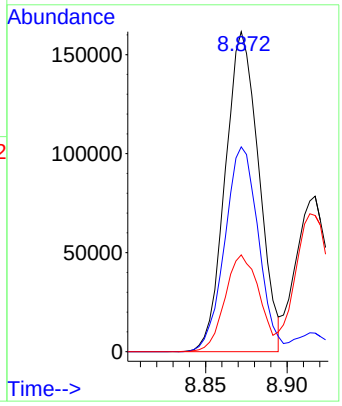




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:117 Resp: 23100

Ion	Ratio	Lower	Upper
117	100		
82	69.9	56.1	84.1
119	31.6	25.0	37.6



Instrument :
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ClientSampleId :
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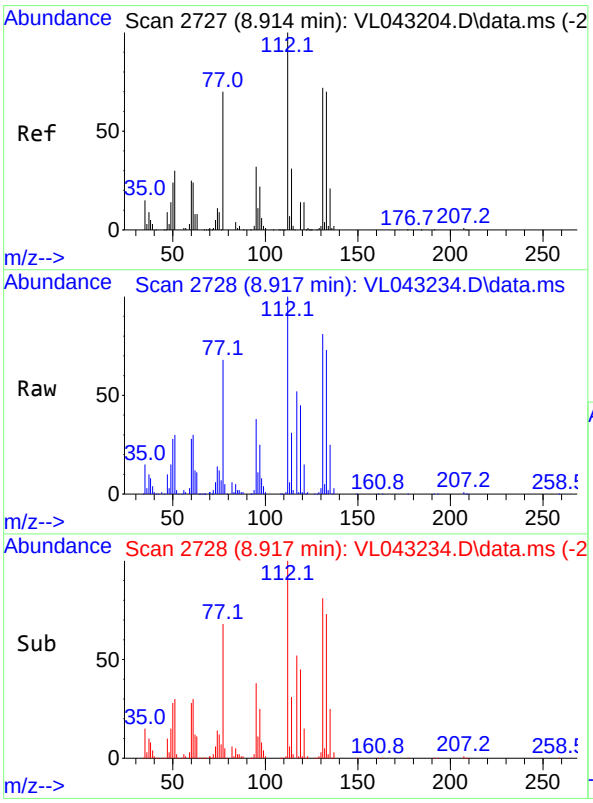
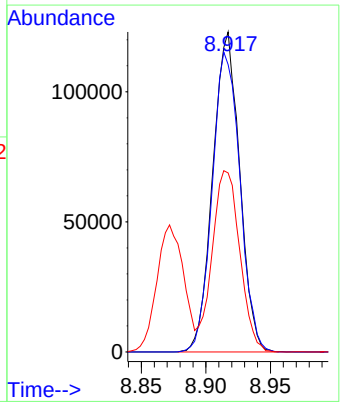
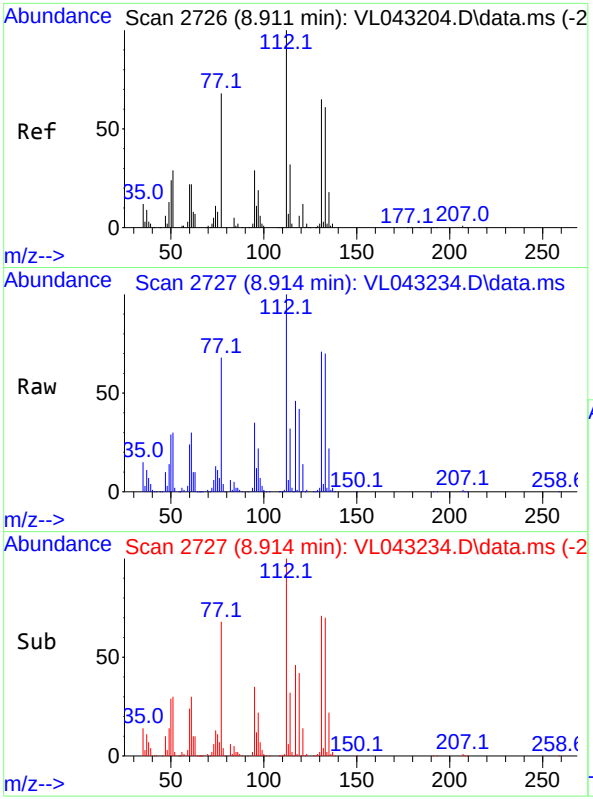


#56
1,1,1,2-Tetrachloroethane
Concen: 10.493 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:131 Resp: 178150

Ion	Ratio	Lower	Upper
131	100		
133	96.9	77.4	116.2
119	58.5	49.1	73.7

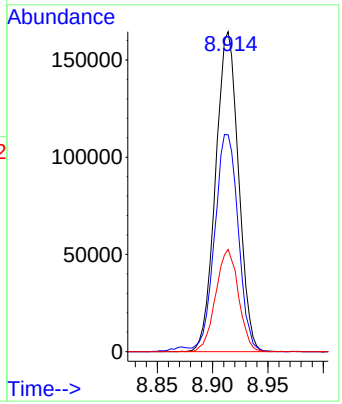




#57
Chlorobenzene
Concen: 10.006 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:112 Resp: 23732

Ion	Ratio	Lower	Upper
112	100		
77	67.8	55.5	83.3
114	31.9	29.1	35.5



Instrument :
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ClientSampleId :
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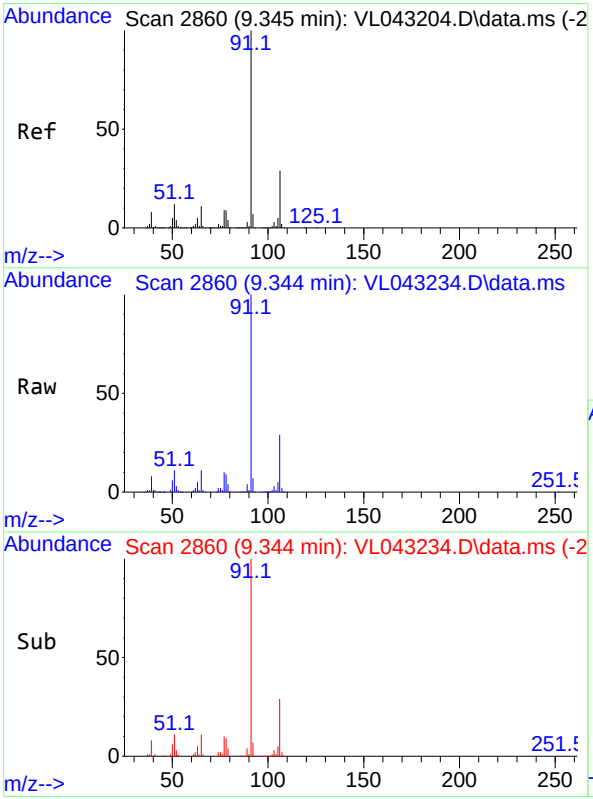
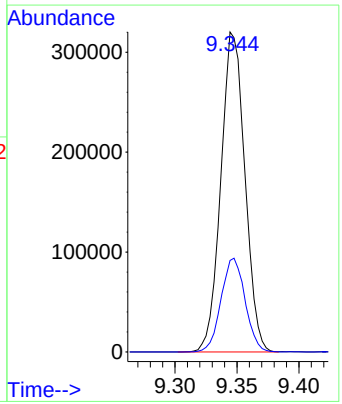
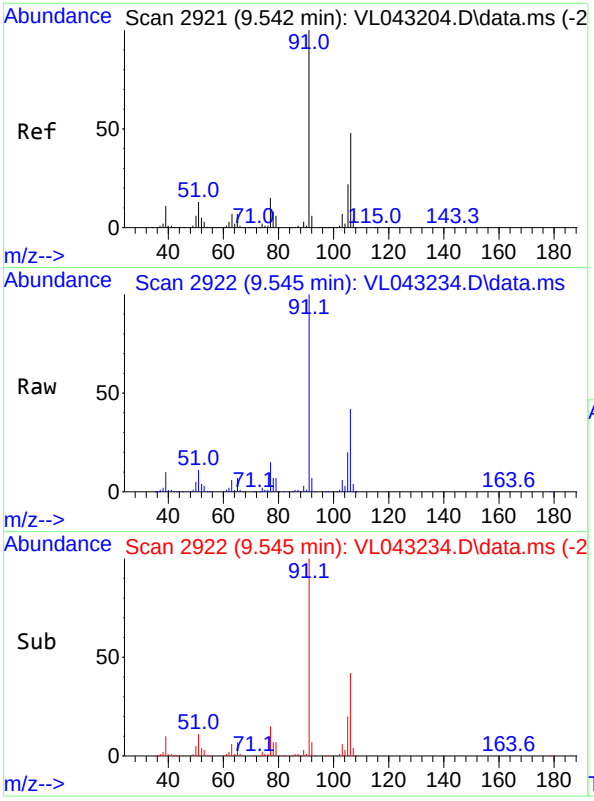


#58
Ethyl Benzene
Concen: 9.729 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 91 Resp: 432563

Ion	Ratio	Lower	Upper
91	100		
106	28.6	22.8	34.2

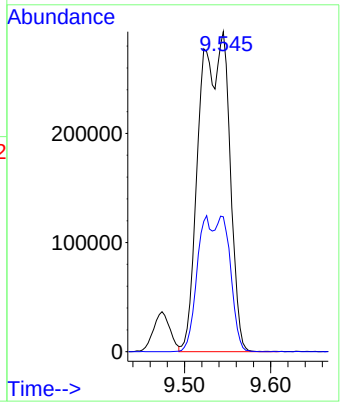




#59
m/p-Xylene
Concen: 19.922 ppbv m
RT: 9.545 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 91 Resp: 71017

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#



Instrument :
MSVOA_L
ClientSampleId :
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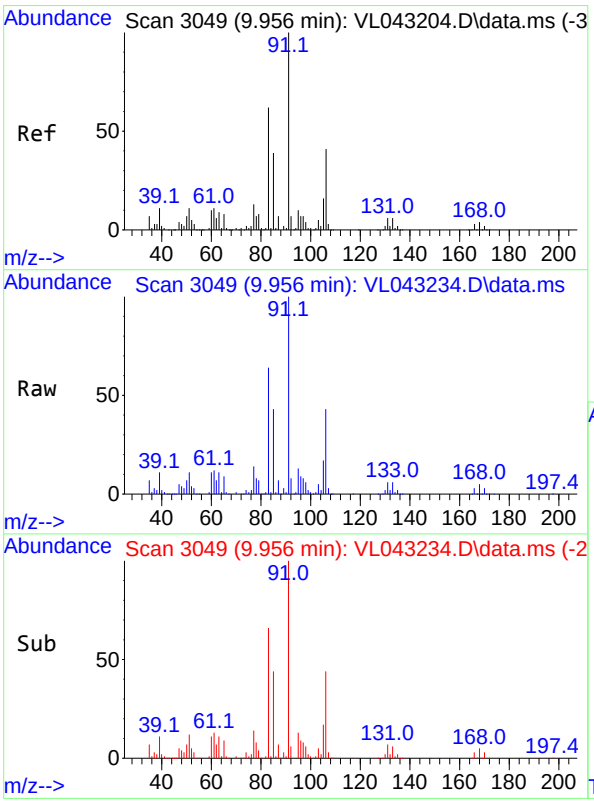
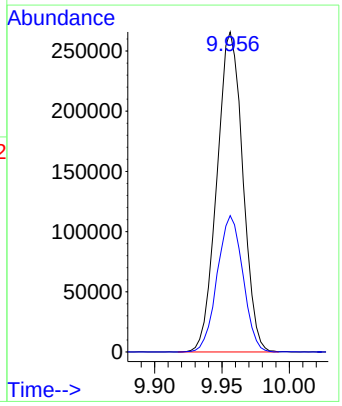
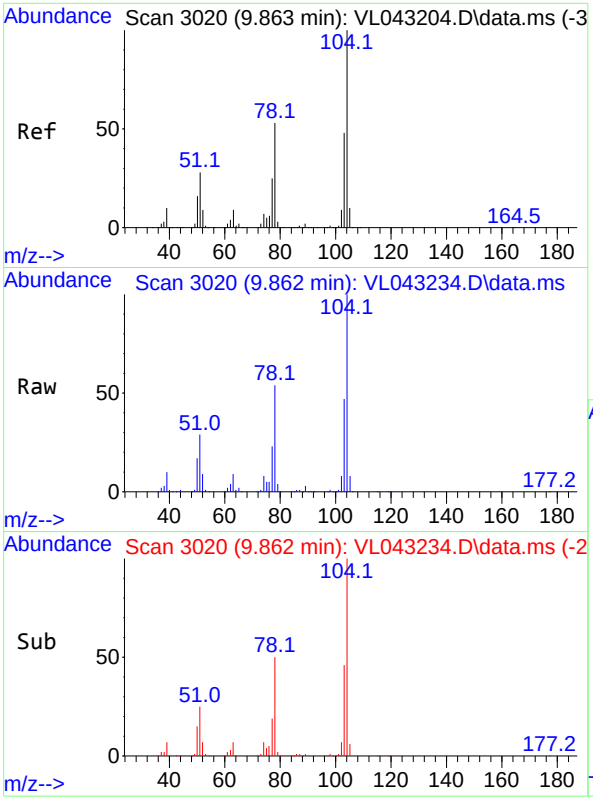


#60
o-Xylene
Concen: 9.955 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 91 Resp: 354511

Ion	Ratio	Lower	Upper
91	100		
106	42.3	20.9	62.8

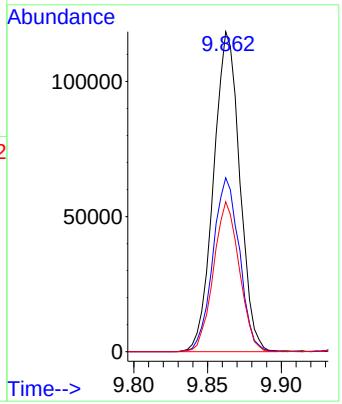




#61
Styrene
Concen: 9.383 ppbv
RT: 9.862 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:104 Resp: 14623

Ion	Ratio	Lower	Upper
104	100		
78	55.1	42.1	63.1
103	46.3	37.2	55.8



Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

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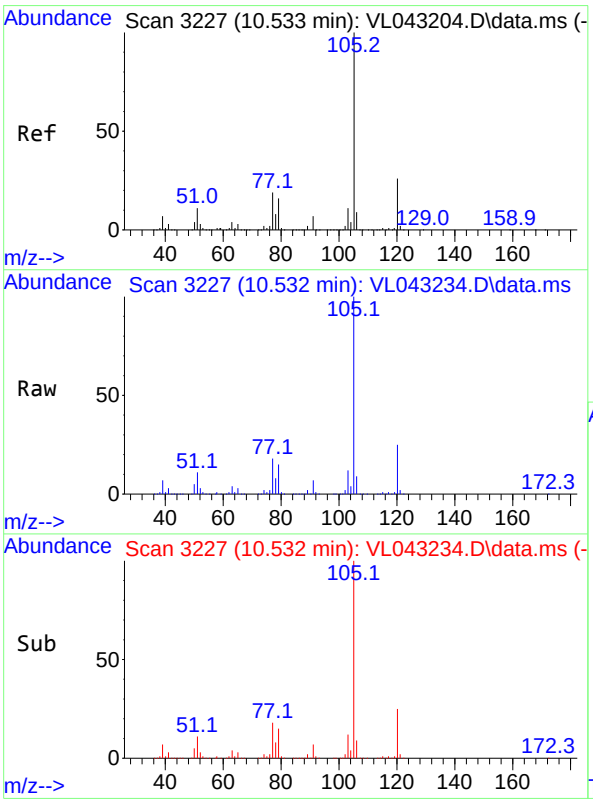
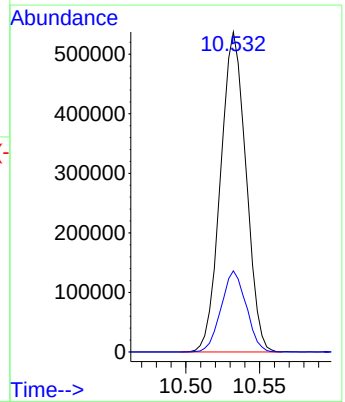
Supervised By :Mahesh Dadoda 11/21/2025

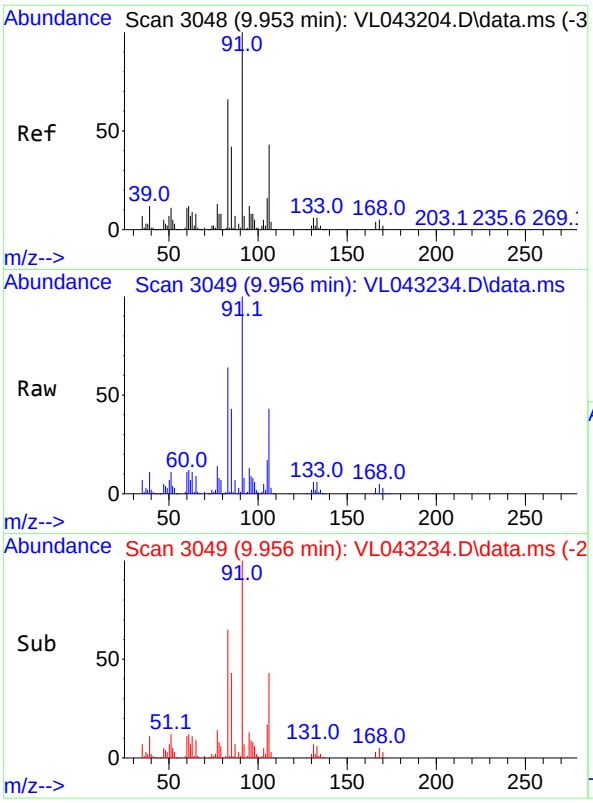


#62
Isopropylbenzene
Concen: 10.105 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:105 Resp: 643813

Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8

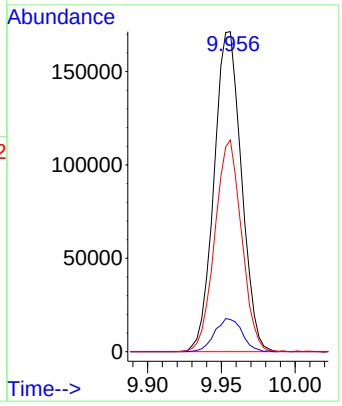




#63
1,1,2,2-Tetrachloroethane
Concen: 9.751 ppbv
RT: 9.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 83 Resp: 22095

Ion	Ratio	Lower	Upper
83	100		
131	10.4	4.8	14.3
85	64.6	31.9	95.9



Instrument :
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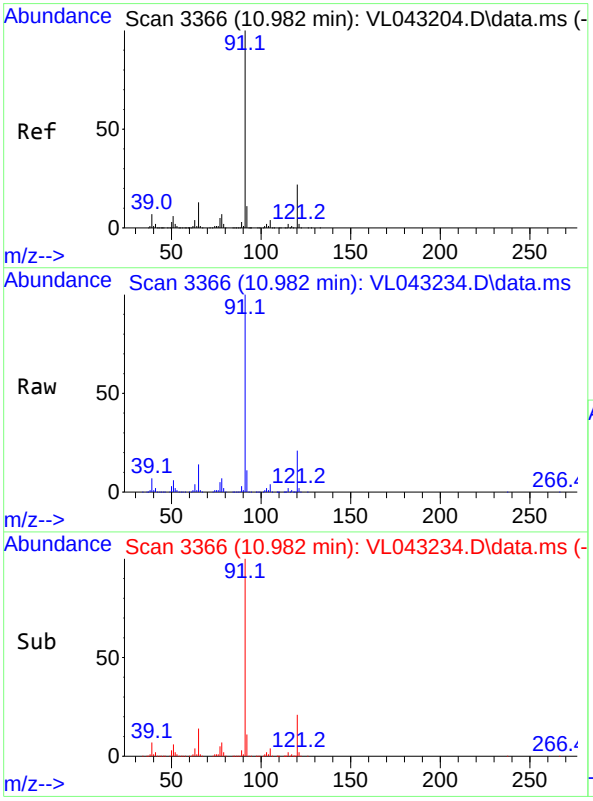
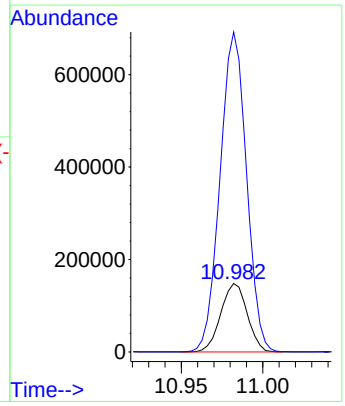
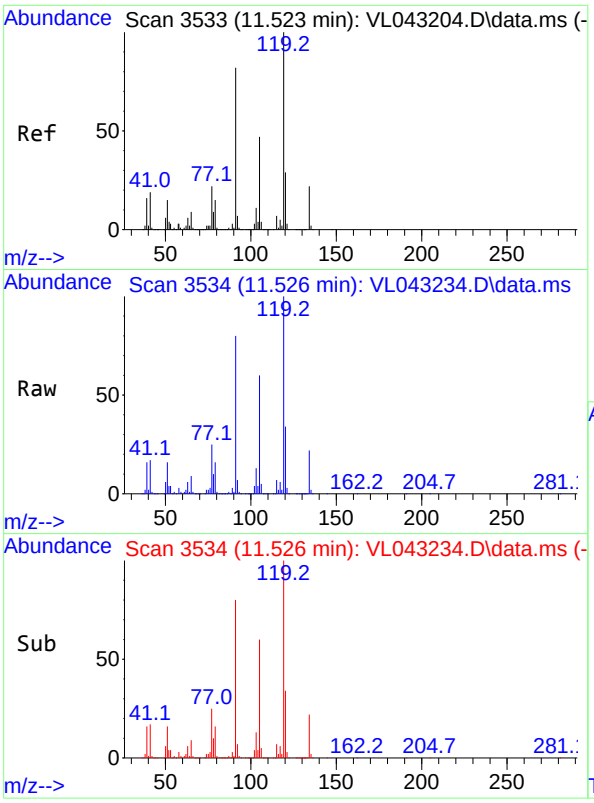


#64
n-propylbenzene
Concen: 10.178 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:120 Resp: 166609

Ion	Ratio	Lower	Upper
120	100		
91	467.6	377.1	565.7

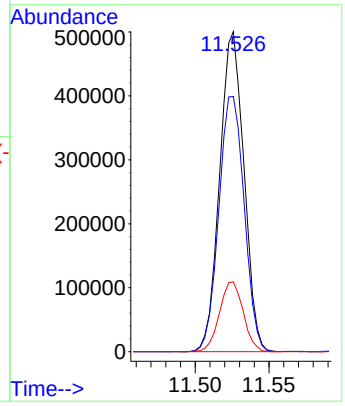




#65
tert-Butylbenzene
Concen: 10.053 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:119 Resp: 57198

Ion	Ratio	Lower	Upper
119	100		
91	83.5	65.3	97.9
134	21.4	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
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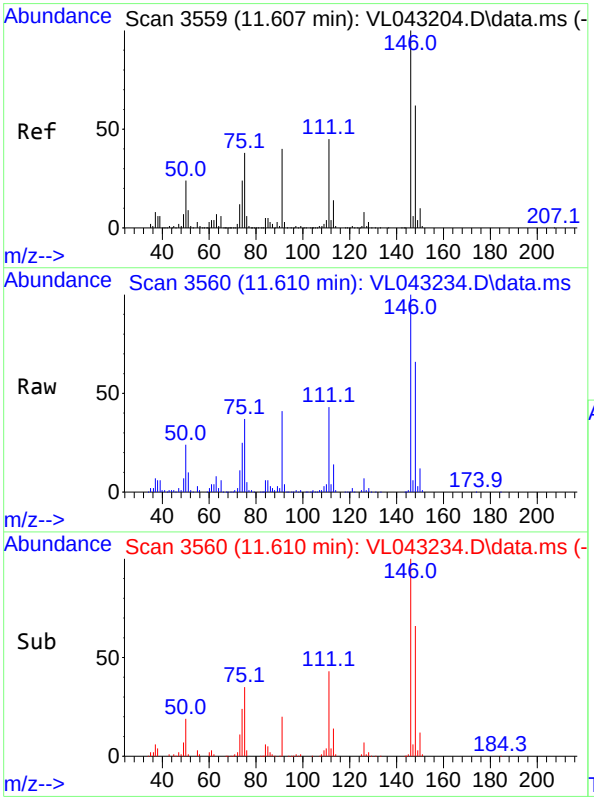
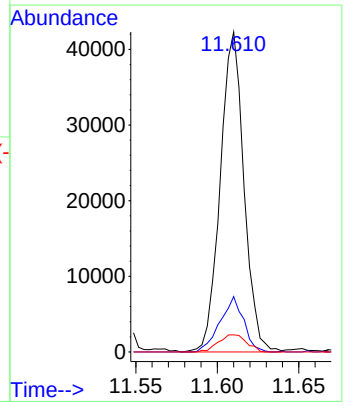
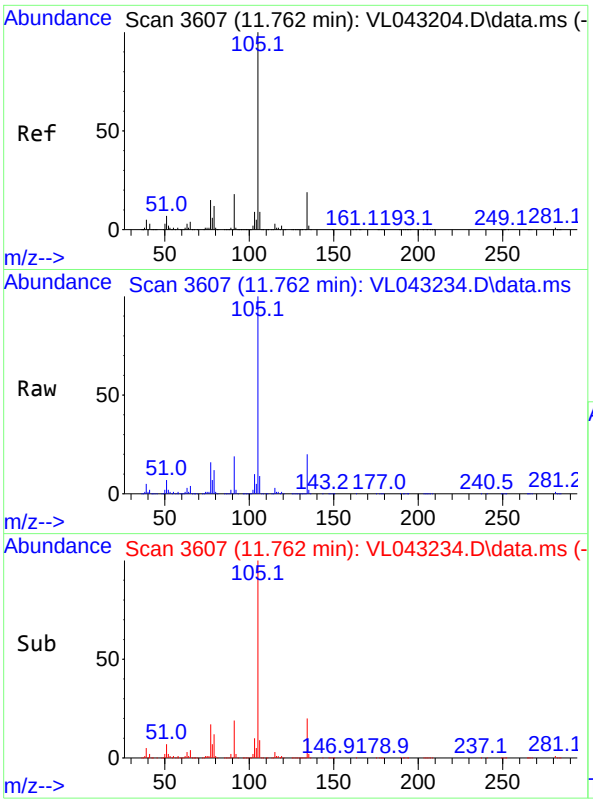


#66
Benzyl Chloride
Concen: 7.403 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 91 Resp: 42746

Ion	Ratio	Lower	Upper
91	100		
126	17.3	14.4	21.6
128	6.4	4.6	6.8





#67
sec-Butylbenzene
Concen: 9.994 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:105 Resp: 79375

Ion	Ratio	Lower	Upper
105	100		
134	19.3	15.0	22.6

Instrument :
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ClientSampleId :
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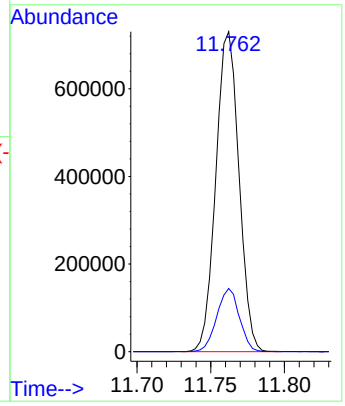
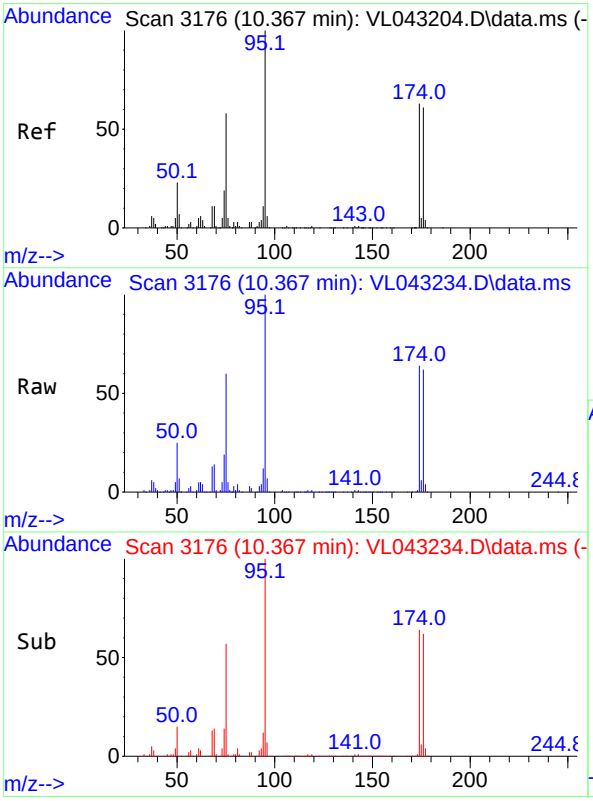
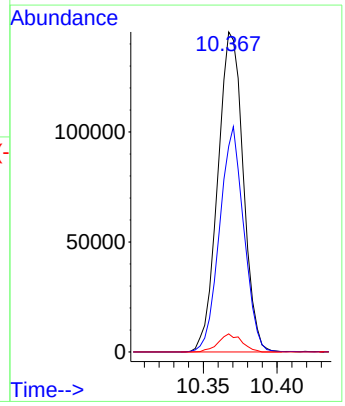


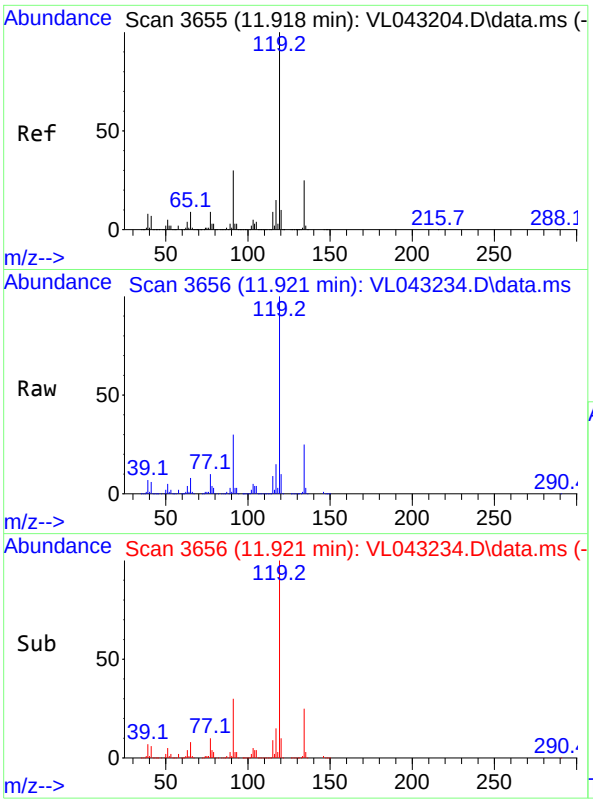


#68
1-Bromo-4-Fluorobenzene
Concen: 10.303 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 95 Resp: 174465

Ion	Ratio	Lower	Upper
95	100		
174	67.3	50.2	75.2
175	5.2	4.1	6.1

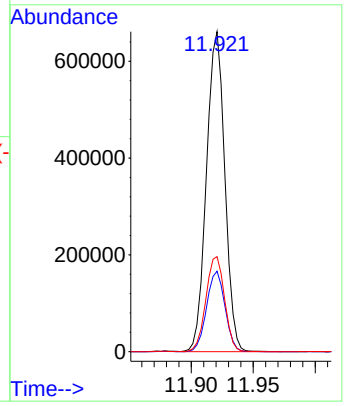




#69
p-Isopropyltoluene
Concen: 10.151 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:119 Resp: 68296

Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	30.3	23.8	35.8



Instrument :
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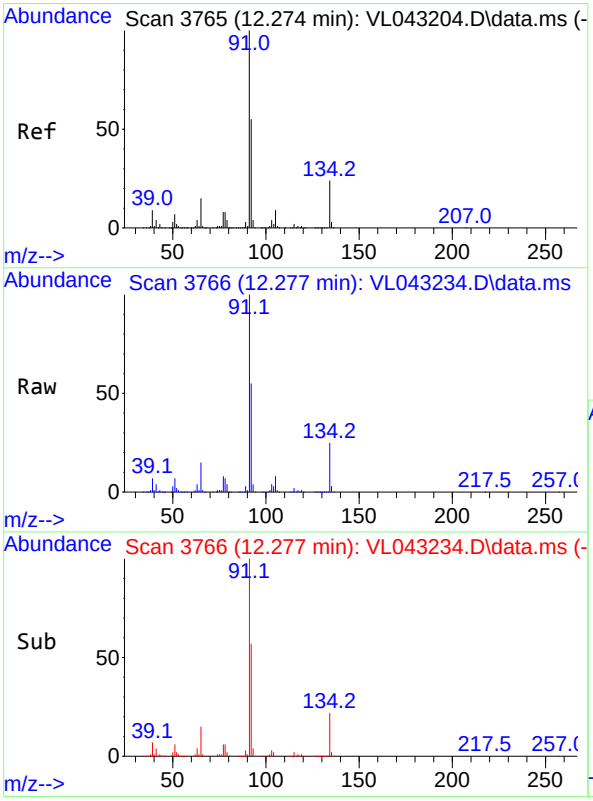
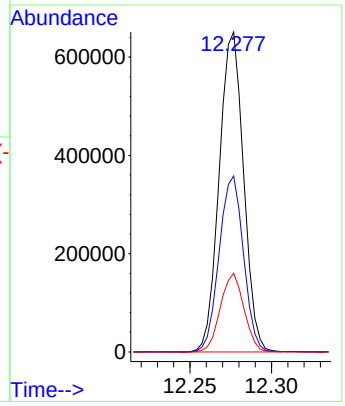
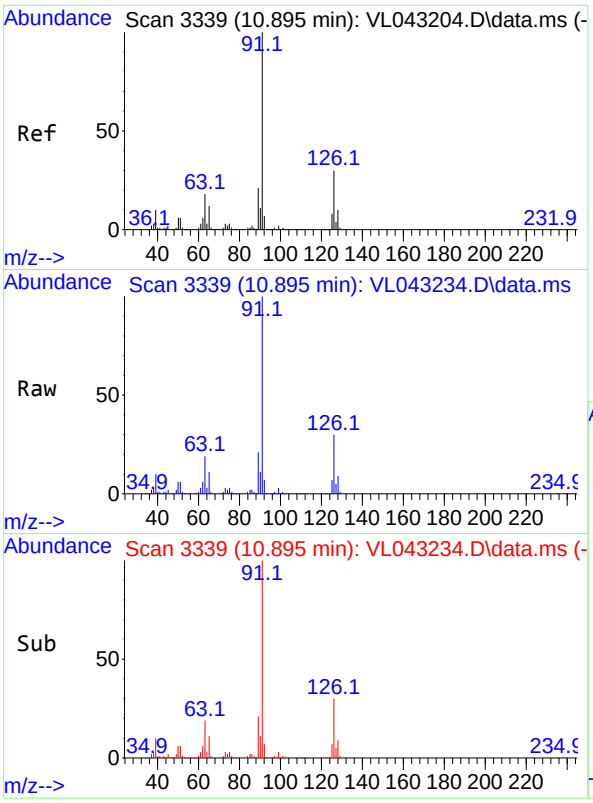


#70
n-Butylbenzene
Concen: 10.357 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 91 Resp: 676010

Ion	Ratio	Lower	Upper
91	100		
92	55.0	43.5	65.3
134	23.8	19.0	28.6

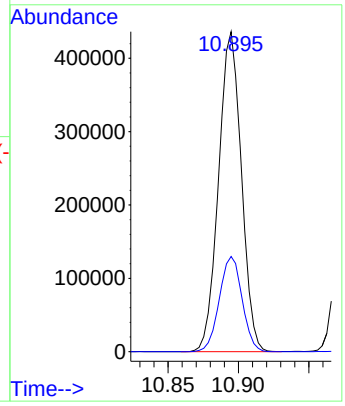




#71
2-Chlorotoluene
Concen: 10.019 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 91 Resp: 49065

Ion	Ratio	Lower	Upper
91	100		
126	29.7	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

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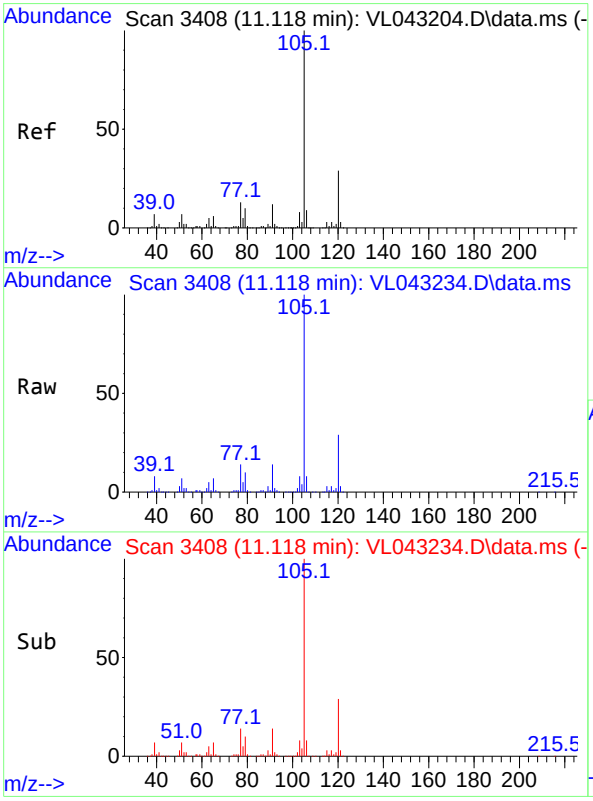
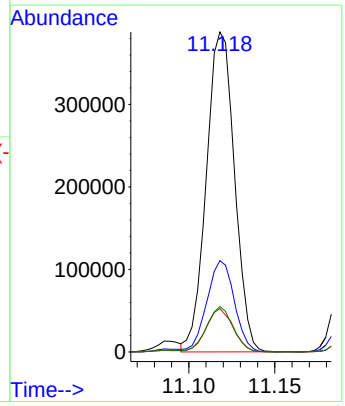
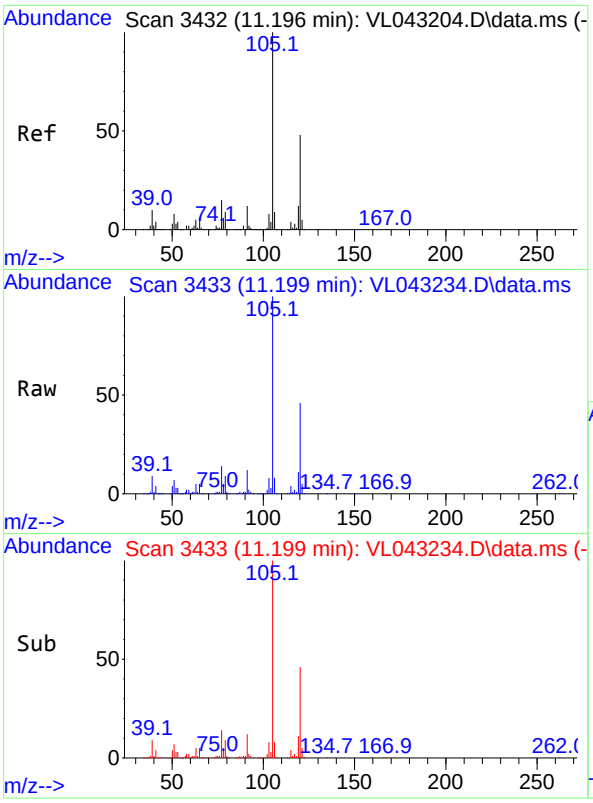


#72
4-Ethyltoluene
Concen: 10.179 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:105 Resp: 441451

Ion	Ratio	Lower	Upper
105	100		
120	28.7	23.8	35.8
91	13.6	10.3	15.5
77	13.9	11.1	16.7

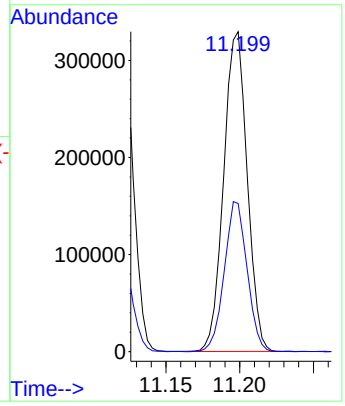




#73
1,3,5-Trimethylbenzene
Concen: 10.019 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:105 Resp: 36462

Ion	Ratio	Lower	Upper
105	100		
120	46.3	38.6	57.8



Instrument :
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ClientSampleId :
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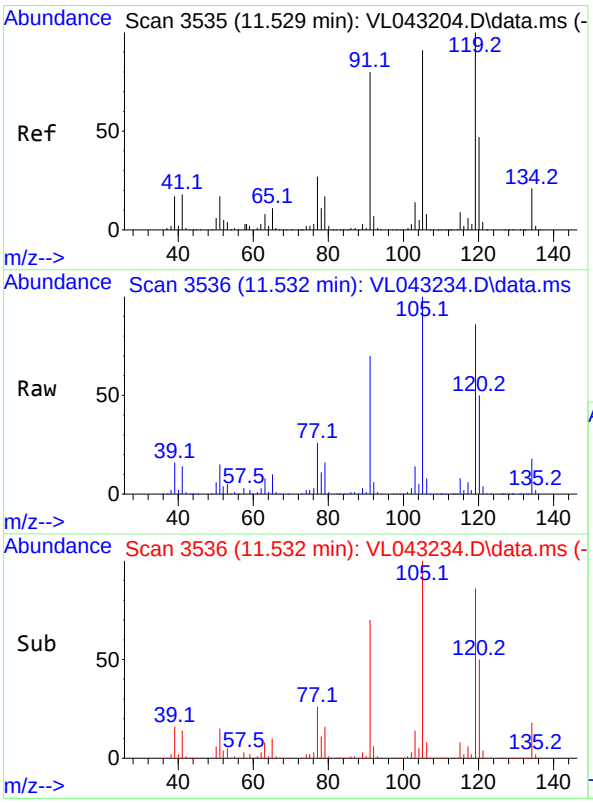
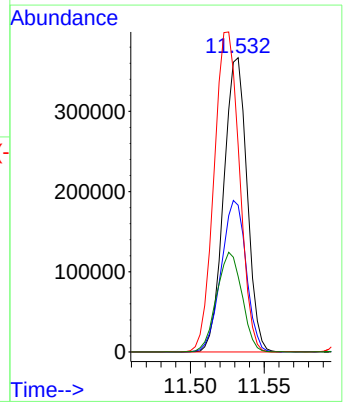
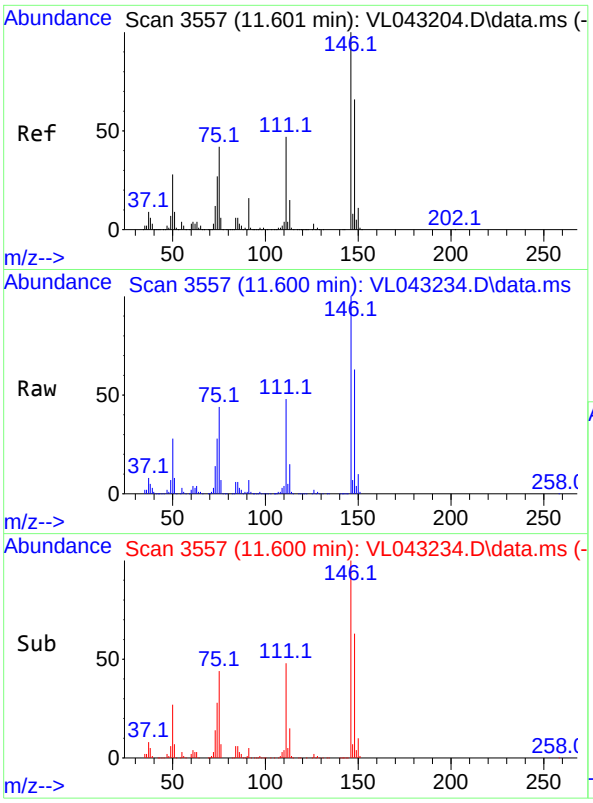


#74
1,2,4-Trimethylbenzene
Concen: 10.161 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:105 Resp: 403572

Ion	Ratio	Lower	Upper
105	100		
120	49.9	41.7	62.5
91	70.2	70.0	105.0
77	25.6	23.8	35.8

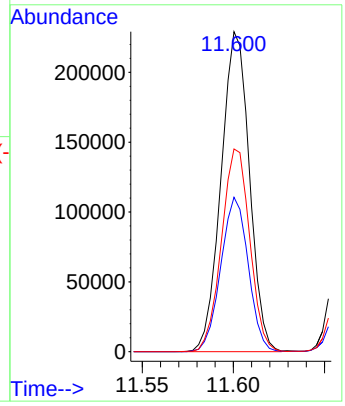




#75
1,3-Dichlorobenzene
Concen: 10.676 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:146 Resp: 24744

Ion	Ratio	Lower	Upper
146	100		
111	46.7	23.4	70.3
148	63.3	31.6	95.0



Instrument :
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ClientSampleId :
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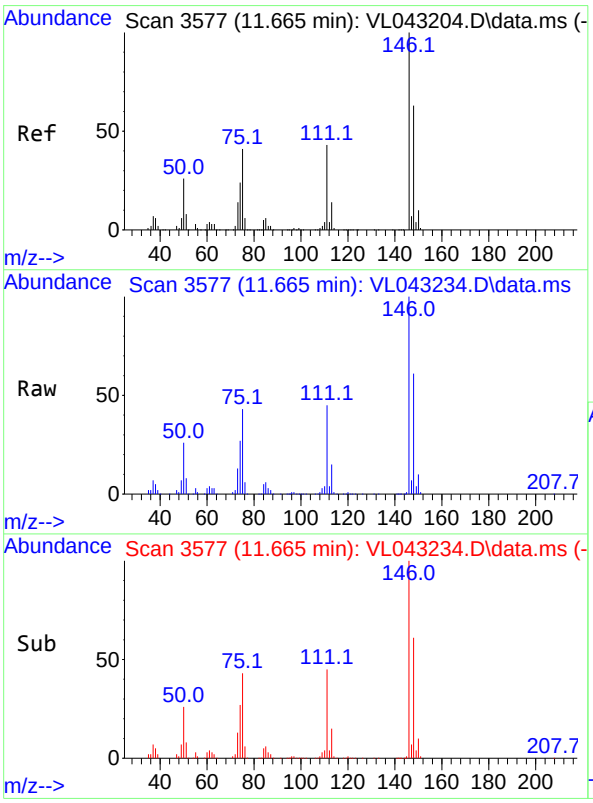
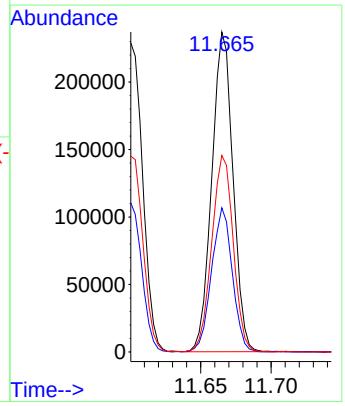
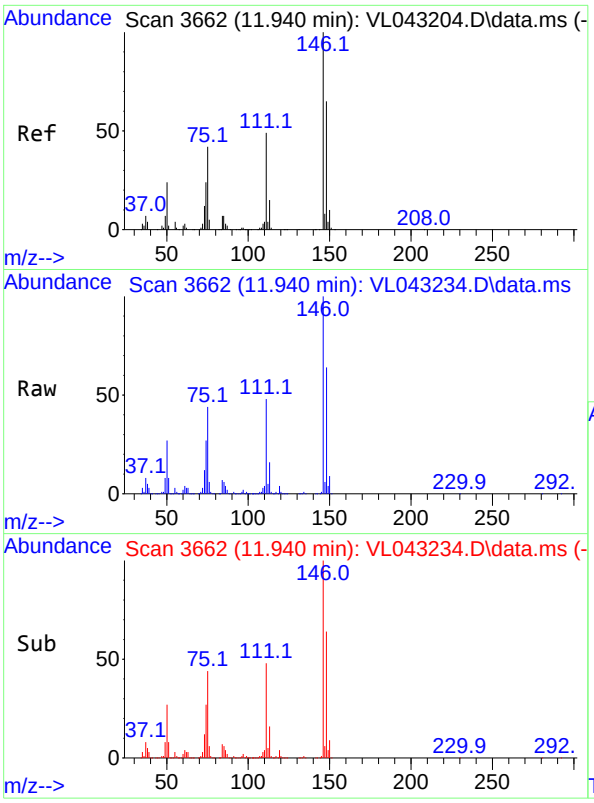


#76
1,4-Dichlorobenzene
Concen: 10.684 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:146 Resp: 247680

Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.8	68.3
148	62.8	31.8	95.4

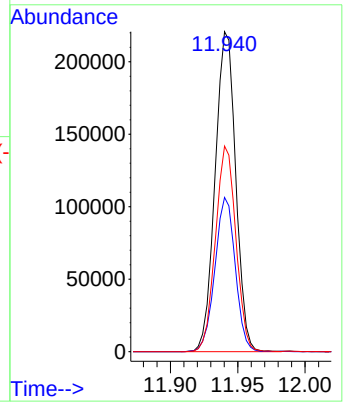




#77
1,2-Dichlorobenzene
Concen: 10.548 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:146 Resp: 23504

Ion	Ratio	Lower	Upper
146	100		
111	47.7	24.3	73.0
148	64.1	31.6	94.7



Instrument :
MSVOA_L
ClientSampleId :
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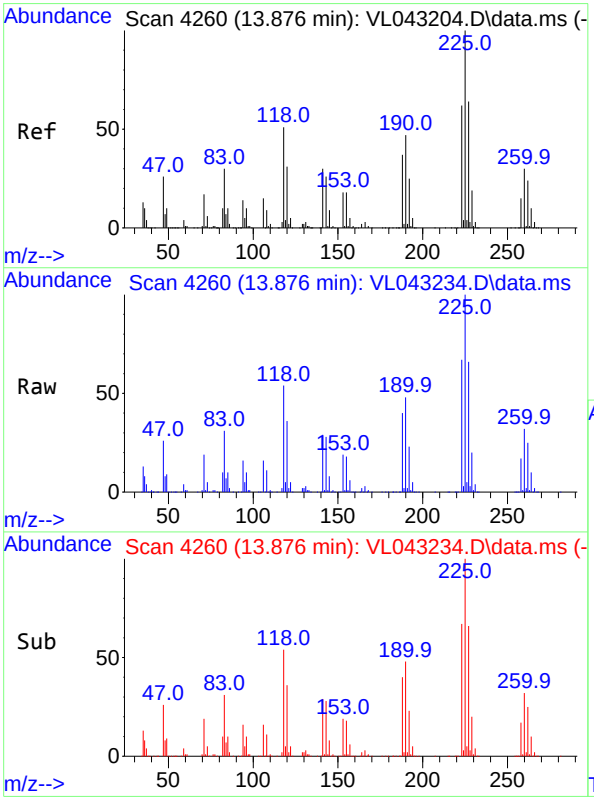
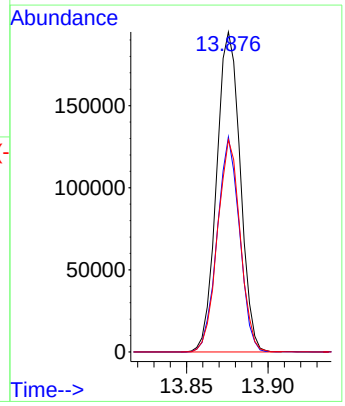
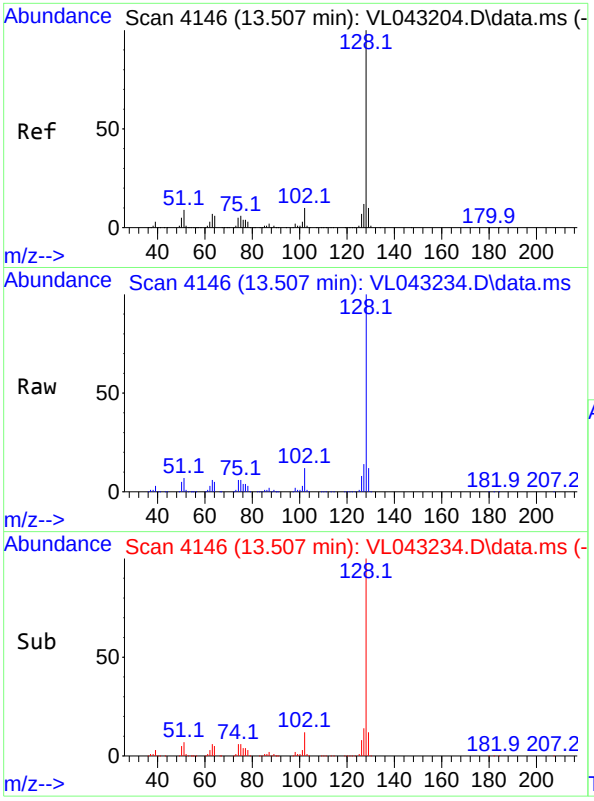


#78
Hexachloro-1,3-Butadiene
Concen: 10.561 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:225 Resp: 196410

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.2	75.4
227	63.8	51.1	76.7

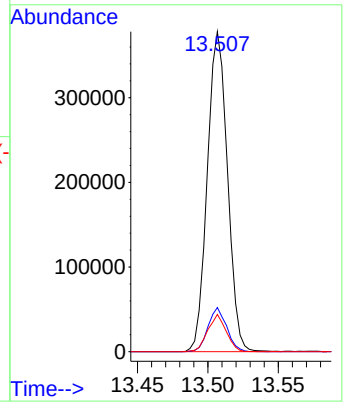




#79
Naphthalene
Concen: 10.683 ppbv
RT: 13.507 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:128 Resp: 37682

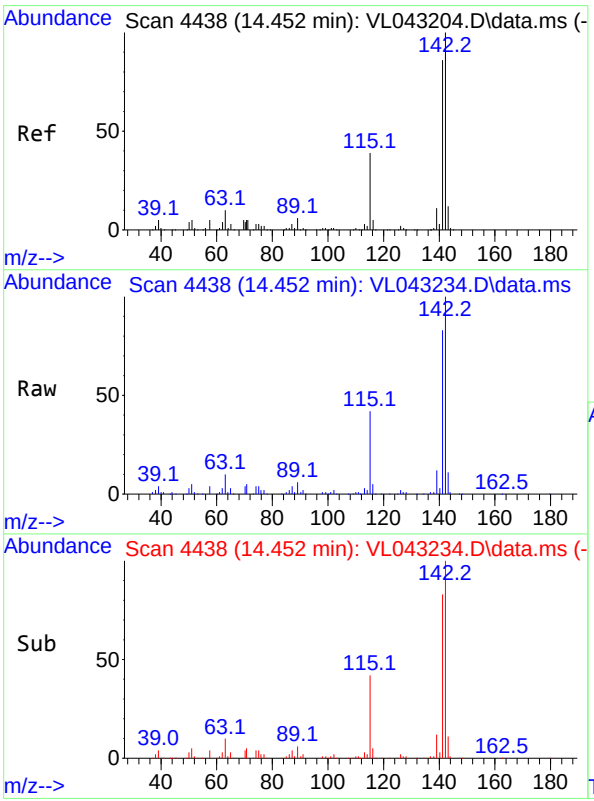
Ion	Ratio	Lower	Upper
128	100		
127	13.8	9.9	14.9
129	11.7	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Manual Integrations
APPROVED

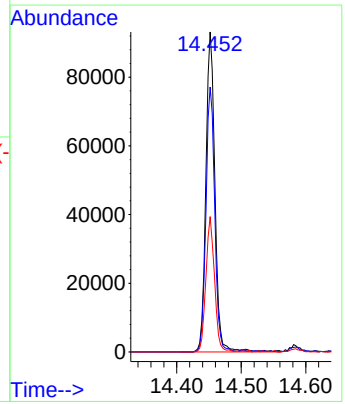
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

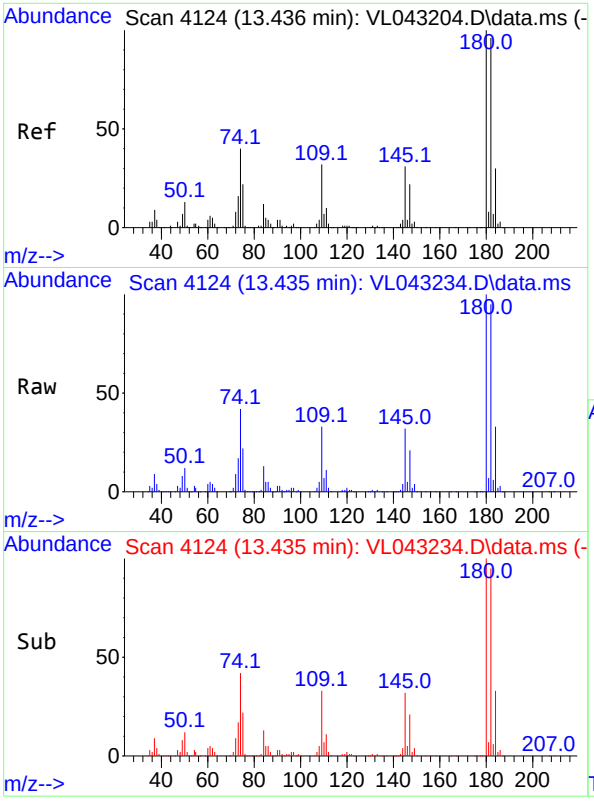


#80
Naphthalene,2-methyl-
Concen: 9.844 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:142 Resp: 91146

Ion	Ratio	Lower	Upper
142	100		
141	81.5	67.1	100.7
115	40.9	31.9	47.9

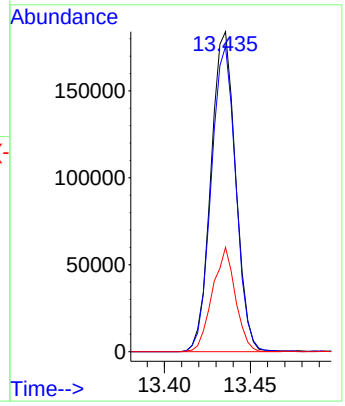




#81
1,2,4-Trichlorobenzene
Concen: 11.616 ppbv
RT: 13.435 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:180 Resp: 18324

Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.4	116.2
184	30.4	24.2	36.4



Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

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:	VL1120ABS01	SDG No.:	Q3626
Lab Sample ID:	VL1120ABS01	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	11.5	56.9		1	0.54	2.47	11/20/25 12:07	VL112025
74-87-3	Chloromethane	10.3	21.3		1	0.21	1.03	11/20/25 12:07	VL112025
75-01-4	Vinyl Chloride	9.50	24.3		1	0.080	0.080	11/20/25 12:07	VL112025
74-83-9	Bromomethane	9.10	35.3		1	0.31	1.94	11/20/25 12:07	VL112025
75-00-3	Chloroethane	9.70	25.6		1	0.40	1.32	11/20/25 12:07	VL112025
109-99-9	Tetrahydrofuran	8.70	25.7		1	0.24	1.47	11/20/25 12:07	VL112025
75-69-4	Trichlorofluoromethane	12.4	69.7		1	0.96	2.81	11/20/25 12:07	VL112025
76-13-1	1,1,2-Trichlorotrifluoroethane	11.7	89.7		1	1.07	3.83	11/20/25 12:07	VL112025
76-14-2	Dichlorotetrafluoroethane	11.0	76.9		1	1.05	3.49	11/20/25 12:07	VL112025
75-65-0	tert-Butyl alcohol	9.30	28.2		1	0.49	1.52	11/20/25 12:07	VL112025
142-82-5	Heptane	8.90	36.5		1	0.70	2.05	11/20/25 12:07	VL112025
75-35-4	1,1-Dichloroethene	10.6	42.0		1	0.59	1.98	11/20/25 12:07	VL112025
67-64-1	Acetone	8.50	20.2		1	0.43	1.19	11/20/25 12:07	VL112025
75-15-0	Carbon Disulfide	10.9	33.9		1	0.25	1.56	11/20/25 12:07	VL112025
1634-04-4	Methyl tert-Butyl Ether	9.90	35.7		1	0.83	1.80	11/20/25 12:07	VL112025
75-09-2	Methylene Chloride	11.8	41.0		1	0.80	1.74	11/20/25 12:07	VL112025
156-60-5	trans-1,2-Dichloroethene	10.6	42.0		1	0.48	1.98	11/20/25 12:07	VL112025
75-34-3	1,1-Dichloroethane	11.0	44.5		1	0.53	2.02	11/20/25 12:07	VL112025
110-82-7	Cyclohexane	9.60	33.0		1	0.76	1.72	11/20/25 12:07	VL112025
78-93-3	2-Butanone	9.30	27.4		1	0.18	1.47	11/20/25 12:07	VL112025
56-23-5	Carbon Tetrachloride	11.5	72.3		1	0.19	0.19	11/20/25 12:07	VL112025
156-59-2	cis-1,2-Dichloroethene	10.0	39.6		1	0.40	1.98	11/20/25 12:07	VL112025
67-66-3	Chloroform	11.7	57.1		1	0.49	2.44	11/20/25 12:07	VL112025
71-55-6	1,1,1-Trichloroethane	11.2	61.1		1	0.11	0.16	11/20/25 12:07	VL112025
540-84-1	2,2,4-Trimethylpentane	9.60	44.8		1	0.65	2.34	11/20/25 12:07	VL112025
71-43-2	Benzene	10.0	31.9		1	0.26	1.60	11/20/25 12:07	VL112025
107-06-2	1,2-Dichloroethane	11.3	45.7		1	0.36	2.02	11/20/25 12:07	VL112025
79-01-6	Trichloroethene	10.6	57.0		1	0.11	0.16	11/20/25 12:07	VL112025
78-87-5	1,2-Dichloropropane	9.70	44.8		1	0.60	2.31	11/20/25 12:07	VL112025
75-27-4	Bromodichloromethane	11.2	75.0		1	0.40	3.35	11/20/25 12:07	VL112025
108-10-1	4-Methyl-2-Pentanone	8.90	36.5		1	0.41	2.05	11/20/25 12:07	VL112025
108-88-3	Toluene	9.60	36.2		1	0.60	1.88	11/20/25 12:07	VL112025
10061-02-6	t-1,3-Dichloropropene	7.50	34.0		1	0.68	2.27	11/20/25 12:07	VL112025
10061-01-5	cis-1,3-Dichloropropene	7.80	35.4		1	0.50	2.27	11/20/25 12:07	VL112025
79-00-5	1,1,2-Trichloroethane	10.4	56.7		1	0.44	2.73	11/20/25 12:07	VL112025
124-48-1	Dibromochloromethane	10.9	92.9		1	0.77	4.26	11/20/25 12:07	VL112025
106-93-4	1,2-Dibromoethane	9.70	74.5		1	0.69	0.77	11/20/25 12:07	VL112025
127-18-4	Tetrachloroethene	10.4	70.5		1	0.14	0.20	11/20/25 12:07	VL112025
108-90-7	Chlorobenzene	10.7	49.3		1	0.37	2.30	11/20/25 12:07	VL112025
100-41-4	Ethyl Benzene	10.4	45.2		1	0.83	2.17	11/20/25 12:07	VL112025
179601-23-1	m/p-Xylene	21.4	93.0		1	1.78	4.34	11/20/25 12:07	VL112025
95-47-6	o-Xylene	10.7	46.5		1	0.91	2.17	11/20/25 12:07	VL112025
100-42-5	Styrene	9.40	40.0		1	0.68	2.13	11/20/25 12:07	VL112025
75-25-2	Bromoform	11.0	114		1	0.52	5.17	11/20/25 12:07	VL112025
79-34-5	1,1,2,2-Tetrachloroethane	10.4	71.4		1	0.14	0.21	11/20/25 12:07	VL112025
95-49-8	2-Chlorotoluene	10.3	53.3		1	0.88	2.59	11/20/25 12:07	VL112025

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:	VL1120ABS01	SDG No.:	Q3626
Lab Sample ID:	VL1120ABS01	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	10.6	52.1		1	0.88	2.46	11/20/25 12:07	VL112025
95-63-6	1,2,4-Trimethylbenzene	10.6	52.1		1	0.88	2.46	11/20/25 12:07	VL112025
541-73-1	1,3-Dichlorobenzene	10.8	64.9		1	0.30	3.01	11/20/25 12:07	VL112025
106-46-7	1,4-Dichlorobenzene	10.6	63.7		1	0.78	3.01	11/20/25 12:07	VL112025
95-50-1	1,2-Dichlorobenzene	10.6	63.7		1	0.78	3.01	11/20/25 12:07	VL112025
120-82-1	1,2,4-Trichlorobenzene	10.8	80.2		1	1.56	3.71	11/20/25 12:07	VL112025
87-68-3	Hexachloro-1,3-Butadiene	10.0	107		1	1.39	5.33	11/20/25 12:07	VL112025
106-99-0	1,3-Butadiene	9.80	21.7		1	0.11	1.11	11/20/25 12:07	VL112025
91-20-3	Naphthalene	9.80	51.4		1	0.050	0.52	11/20/25 12:07	VL112025
622-96-8	4-Ethyltoluene	10.5	51.6		1	1.03	2.46	11/20/25 12:07	VL112025
110-54-3	Hexane	9.50	33.5		1	0.56	1.76	11/20/25 12:07	VL112025
107-05-1	Allyl Chloride	8.80	27.5		1	0.34	1.57	11/20/25 12:07	VL112025
123-91-1	1,4-Dioxane	8.20	29.6		1	0.79	1.80	11/20/25 12:07	VL112025
80-62-6	Methyl Methacrylate	8.90	36.4		1	0.57	2.05	11/20/25 12:07	VL112025
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	101000							
540-36-3	1,4-Difluorobenzene	270000							
3114-55-4	Chlorobenzene-d5	214000							

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\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 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)
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

Quantitation Report (QT Reviewed)

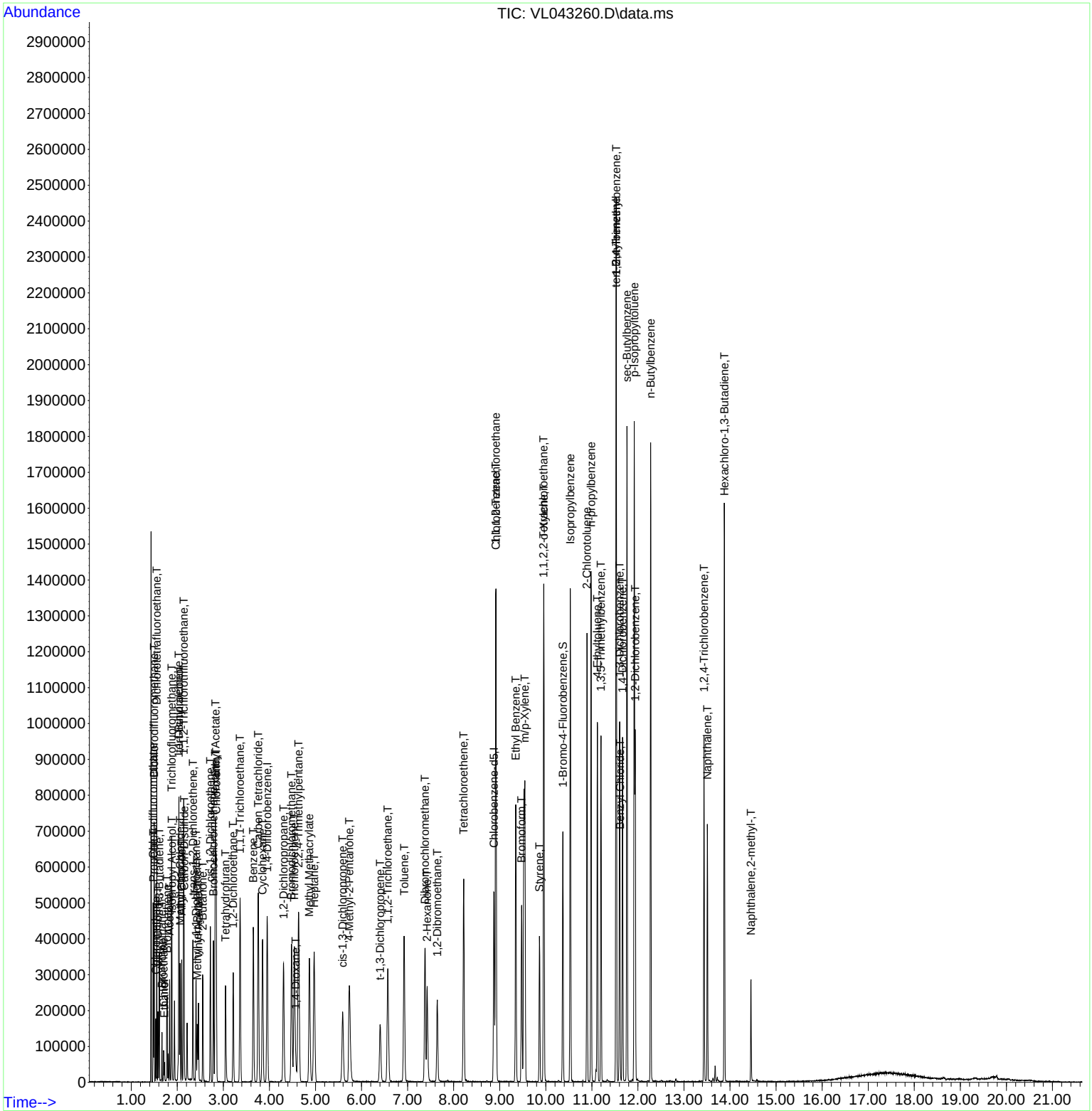
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043260.D
Acq On : 20 Nov 2025 12:07
Operator : SY/MD
Sample : VL1120ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

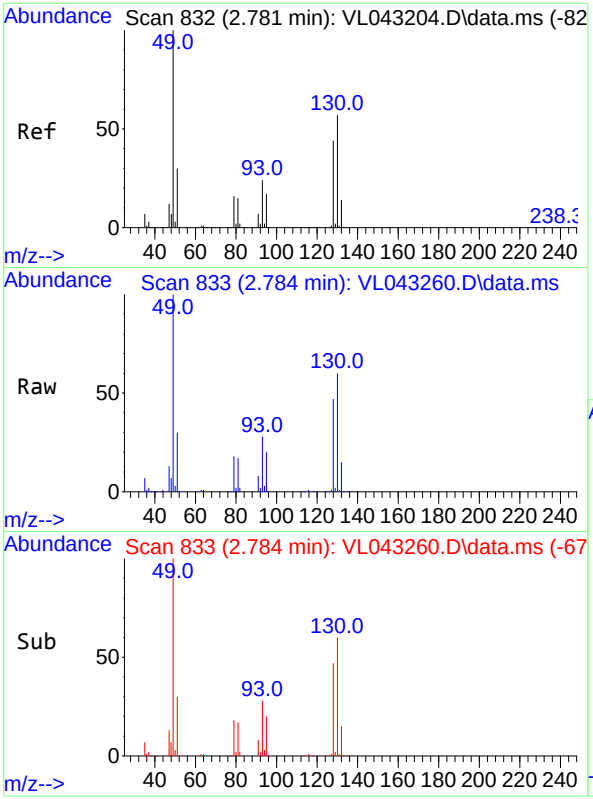
Quant Time: Nov 21 00:36:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

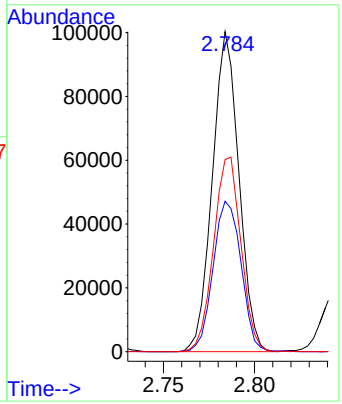




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 49 Resp: 10137

Ion	Ratio	Lower	Upper
49	100		
128	49.8	23.0	69.0
130	62.8	29.9	89.7



Instrument :
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ClientSampleId :
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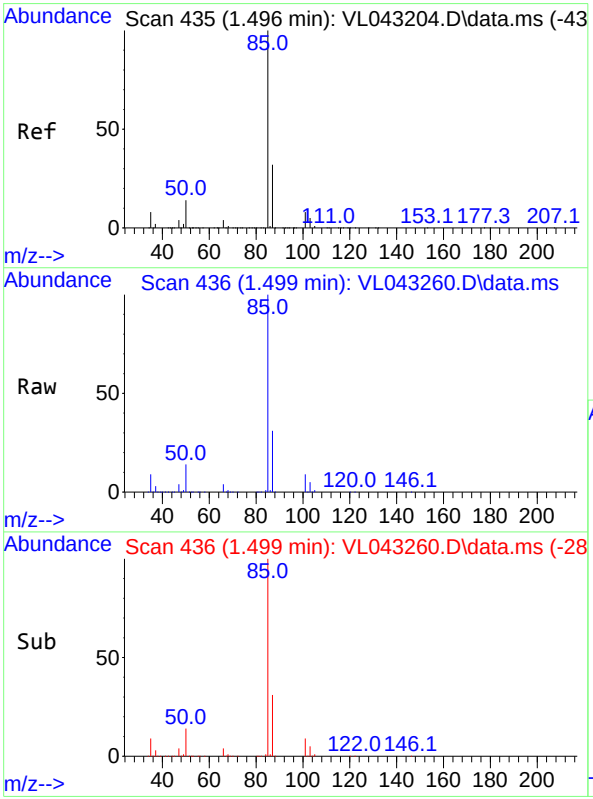
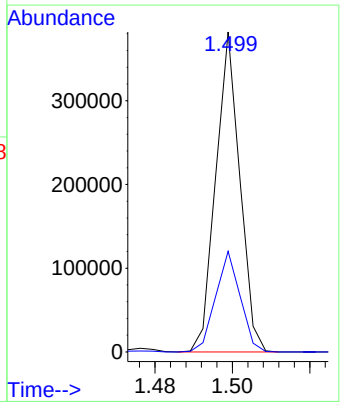
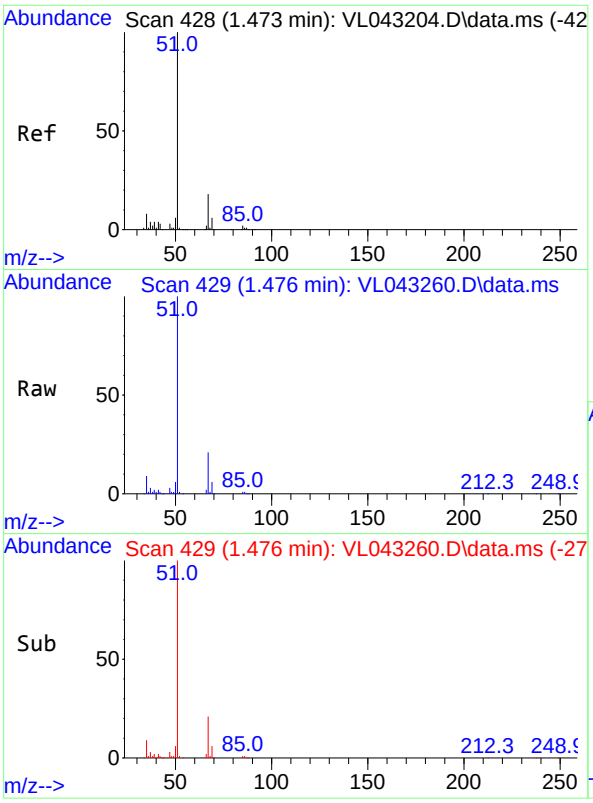


#2
Dichlorodifluoromethane
Concen: 11.526 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 85 Resp: 164798

Ion	Ratio	Lower	Upper
85	100		
87	31.4	25.4	38.2

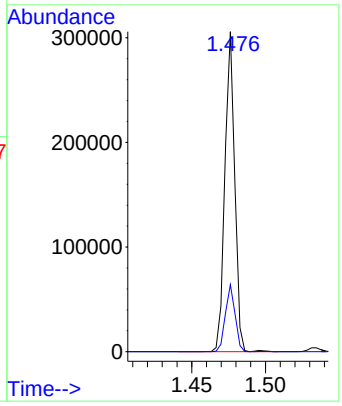




#3
Chlorodifluoromethane
Concen: 10.157 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 51 Resp: 14281

Ion	Ratio	Lower	Upper
51	100		
67	20.7	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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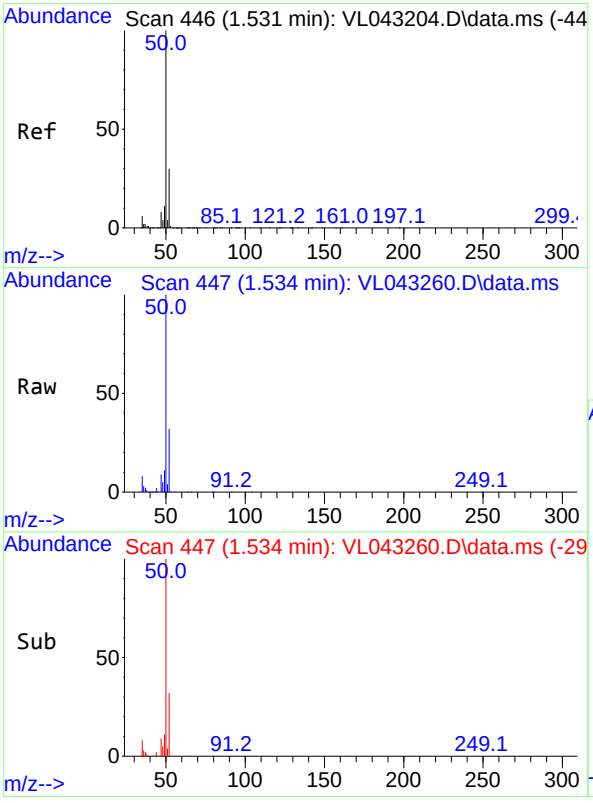
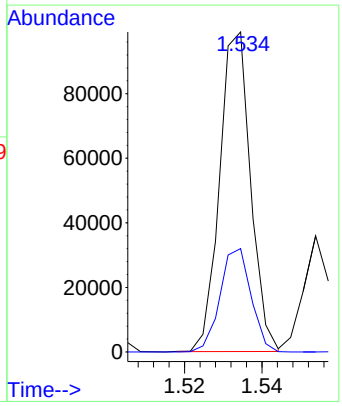
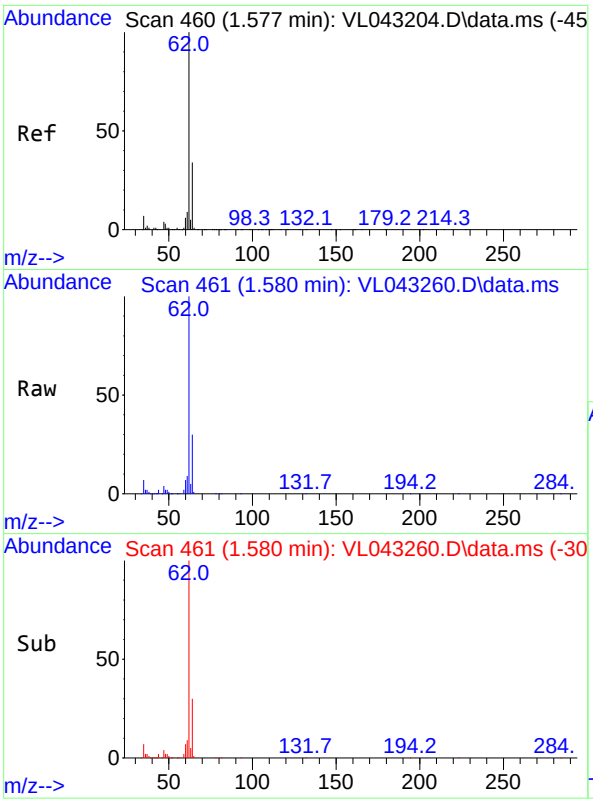


#4
Chloromethane
Concen: 10.302 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 50 Resp: 55072

Ion	Ratio	Lower	Upper
50	100		
52	32.4	24.1	36.1

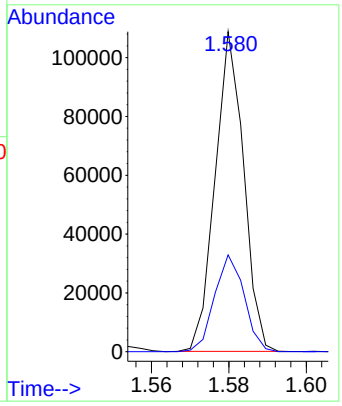




#5
Vinyl Chloride
Concen: 9.520 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 62 Resp: 5565

Ion	Ratio	Lower	Upper
62	100		
64	30.3	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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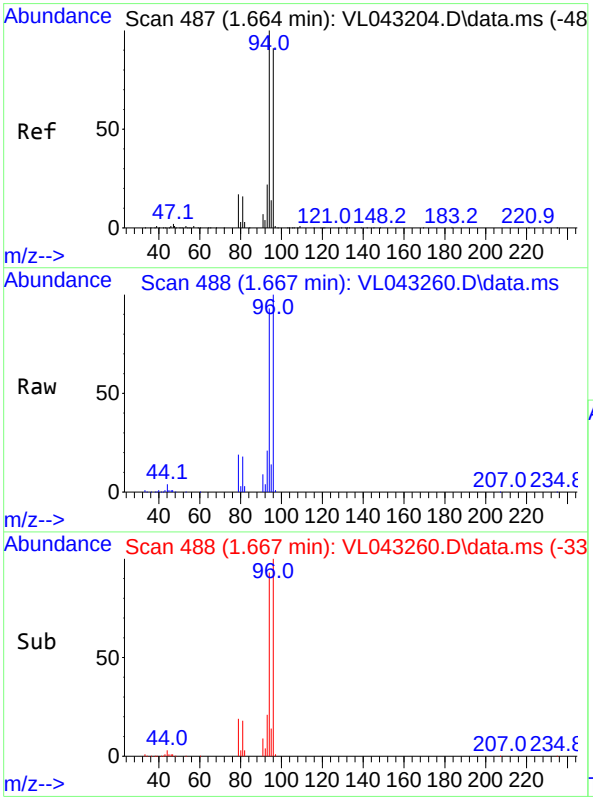
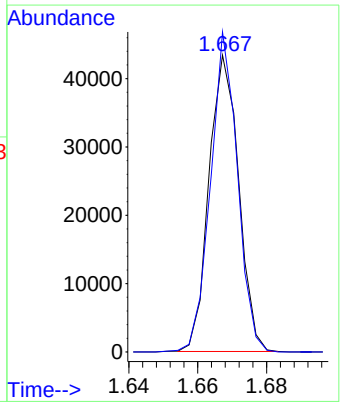
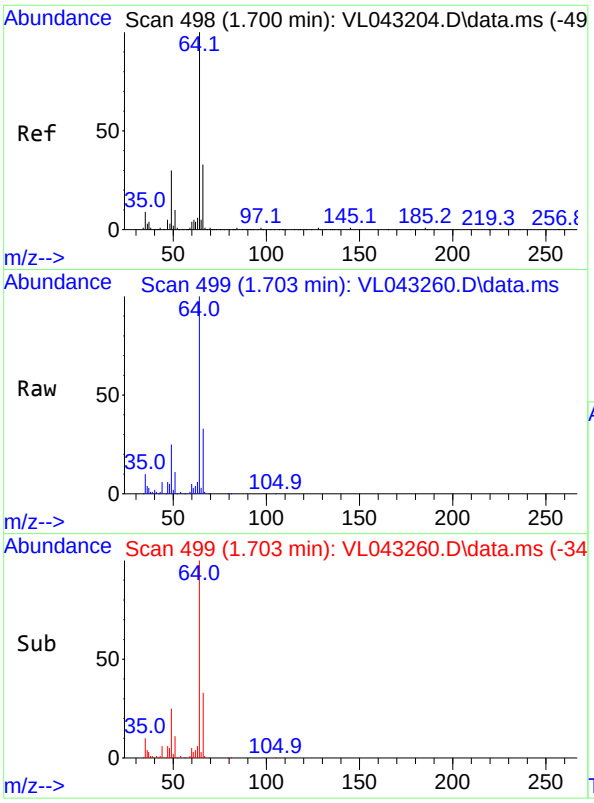


#6
Bromomethane
Concen: 9.126 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 94 Resp: 25862

Ion	Ratio	Lower	Upper
94	100		
96	108.0	72.9	109.3

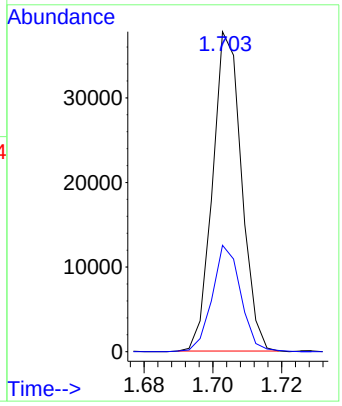




#7
Chloroethane
Concen: 9.670 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 64 Resp: 2201

Ion	Ratio	Lower	Upper
64	100		
66	33.3	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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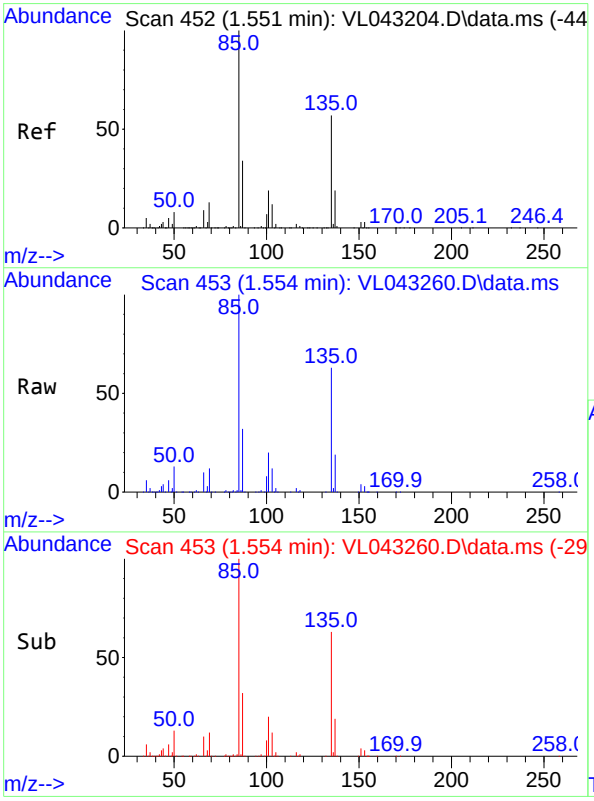
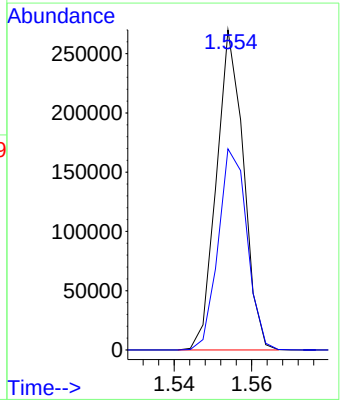
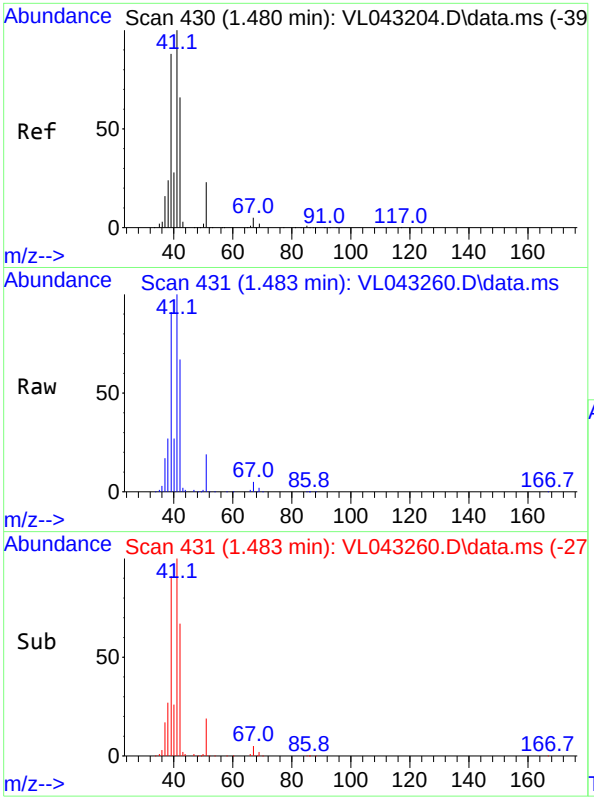


#8
Dichlorotetrafluoroethane
Concen: 11.021 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 85 Resp: 131076

Ion	Ratio	Lower	Upper
85	100		
135	67.1	52.6	79.0

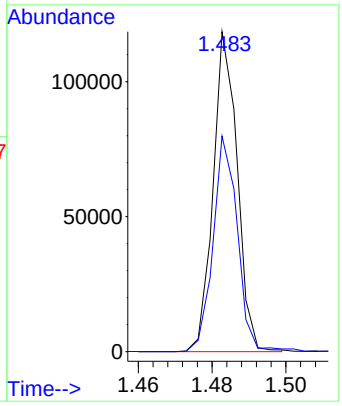




#9
Propene
Concen: 8.999 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 41 Resp: 5373

Ion	Ratio	Lower	Upper
41	100		
42	5.4	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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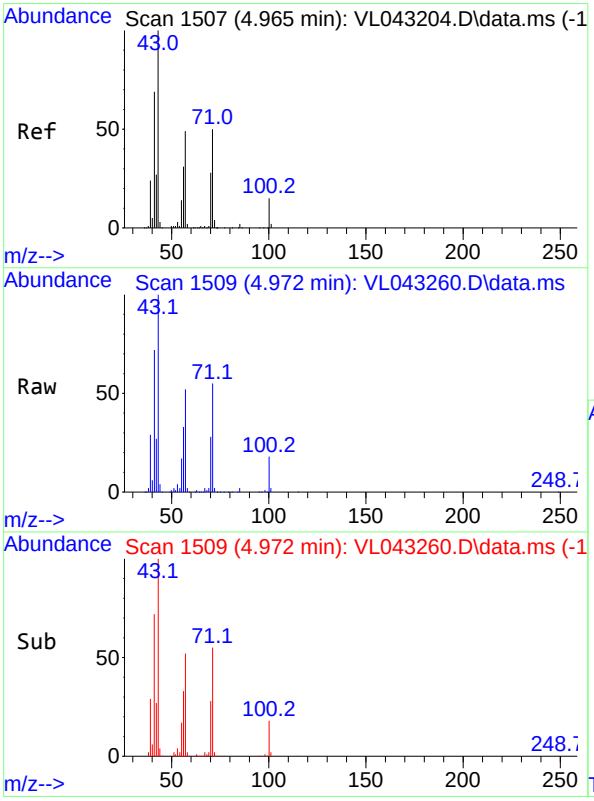
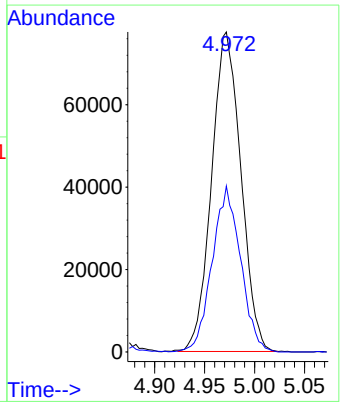
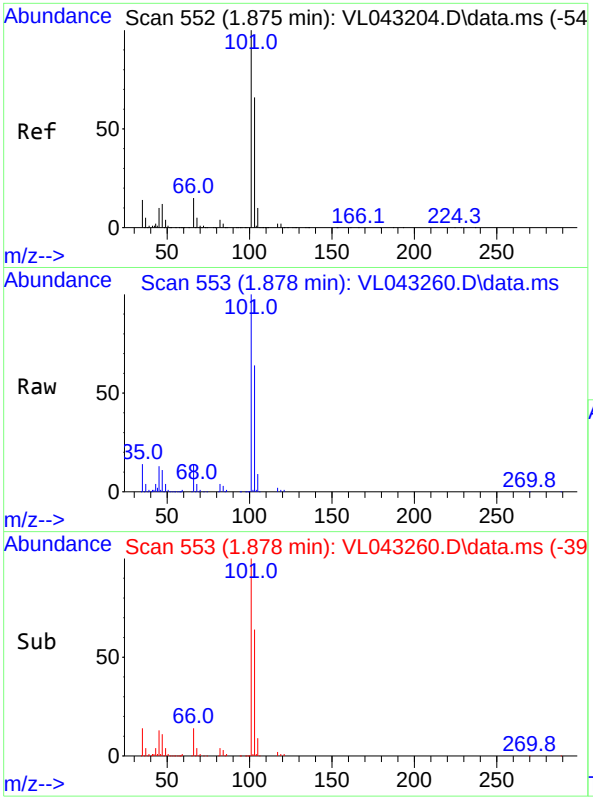


#10
Heptane
Concen: 8.906 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 43 Resp: 158256

Ion	Ratio	Lower	Upper
43	100		
57	50.2	39.7	59.5

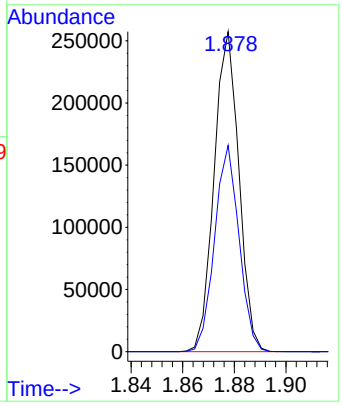




#11
Trichlorofluoromethane
Concen: 12.384 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:101 Resp: 17154

Ion	Ratio	Lower	Upper
101	100		
103	64.5	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
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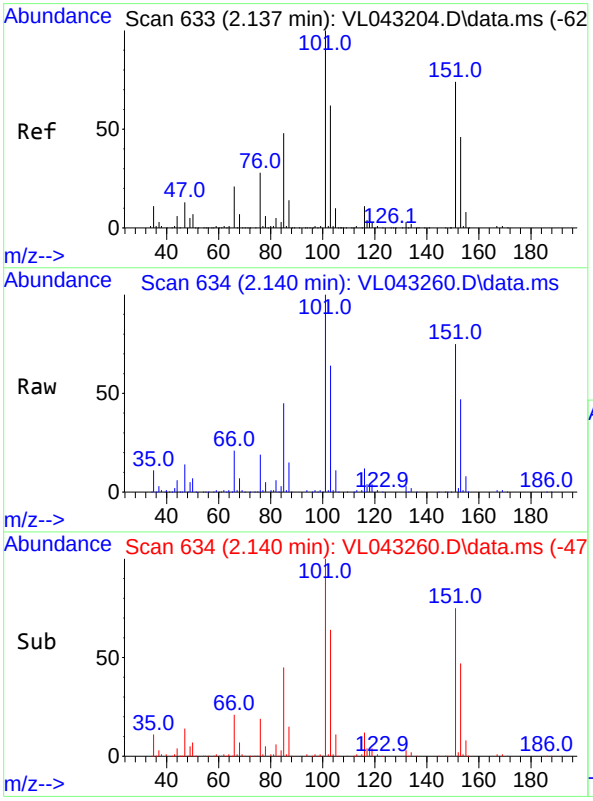
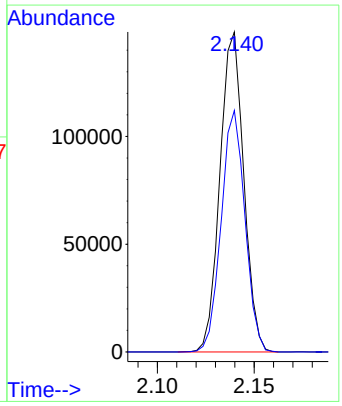
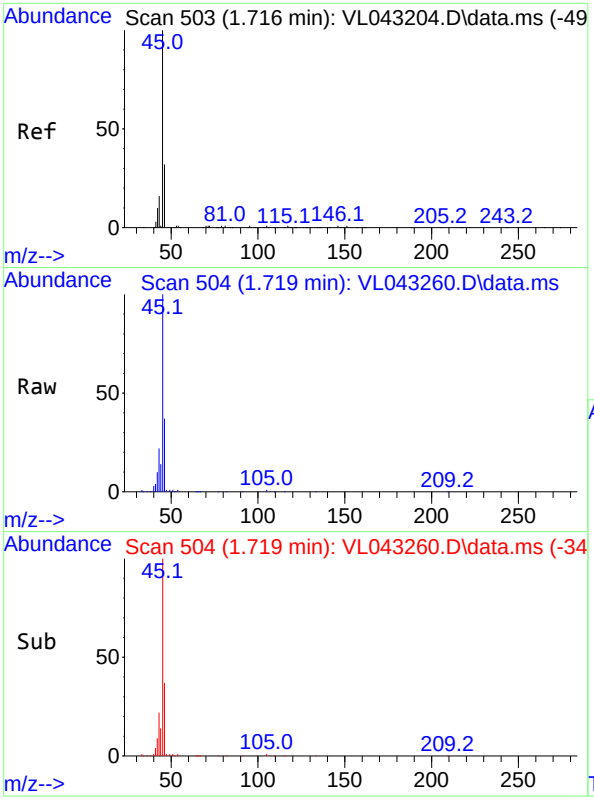


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.726 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:101 Resp: 126812

Ion	Ratio	Lower	Upper
101	100		
151	75.2	59.2	88.8

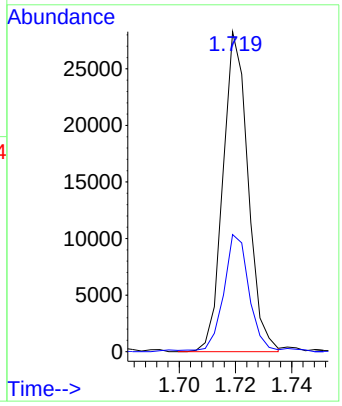




#13
Ethanol
Concen: 8.323 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 45 Resp: 1747

Ion	Ratio	Lower	Upper
45	100		
46	38.3	15.0	59.8



Instrument :
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ClientSampleId :
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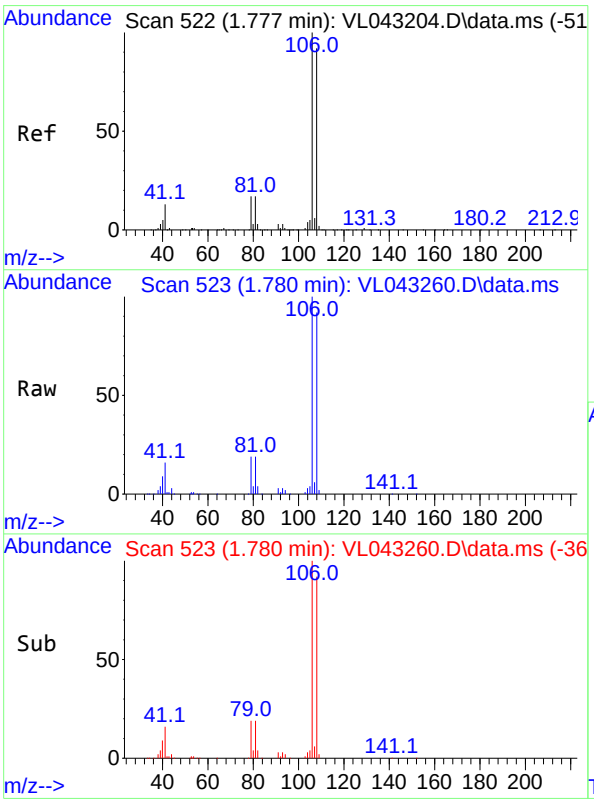
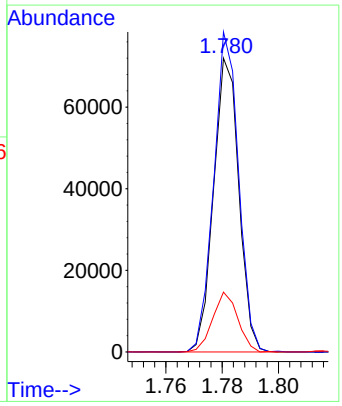
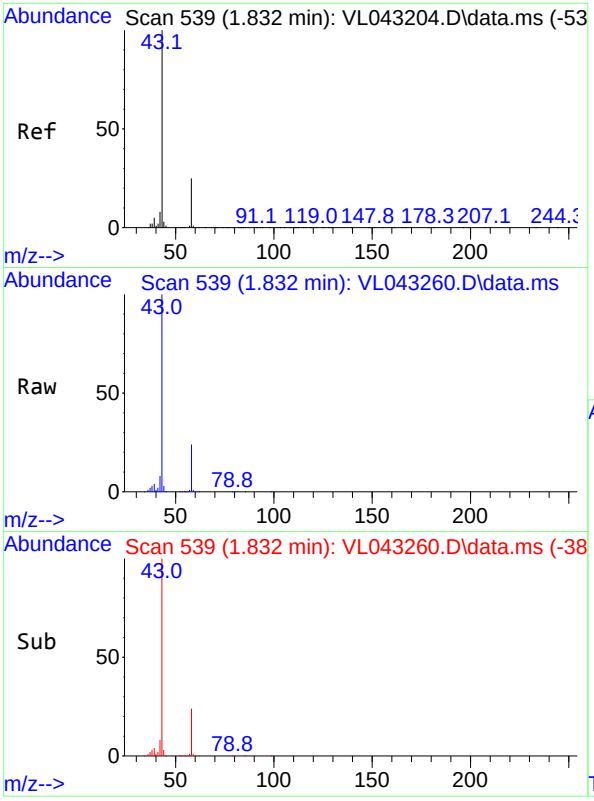


#14
Bromoethene
Concen: 10.813 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:108 Resp: 44833

Ion	Ratio	Lower	Upper
108	100		
106	107.3	88.9	133.3
79	20.4	16.5	24.7

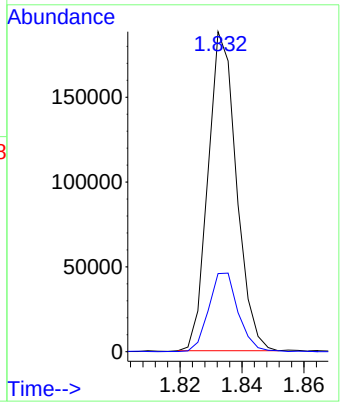




#15
Acetone
Concen: 8.497 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 43 Resp: 11967

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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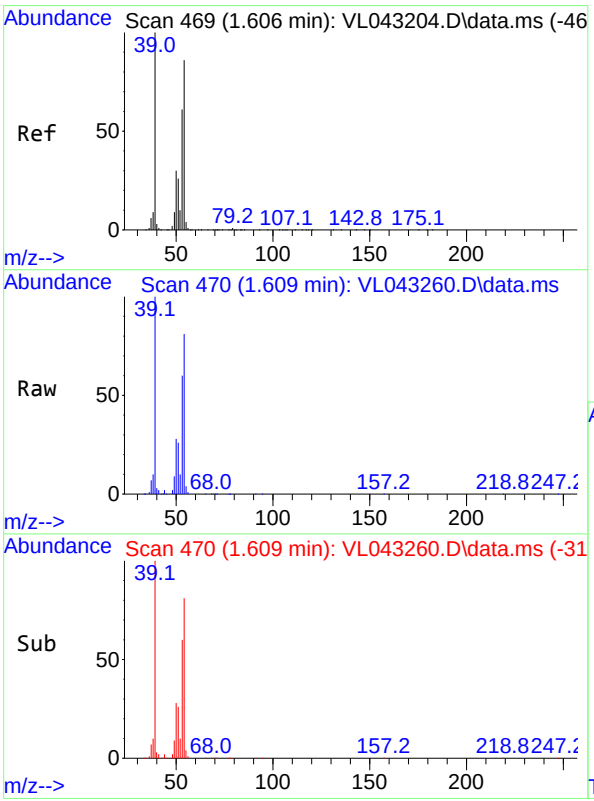
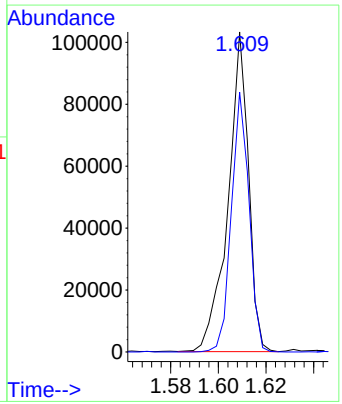
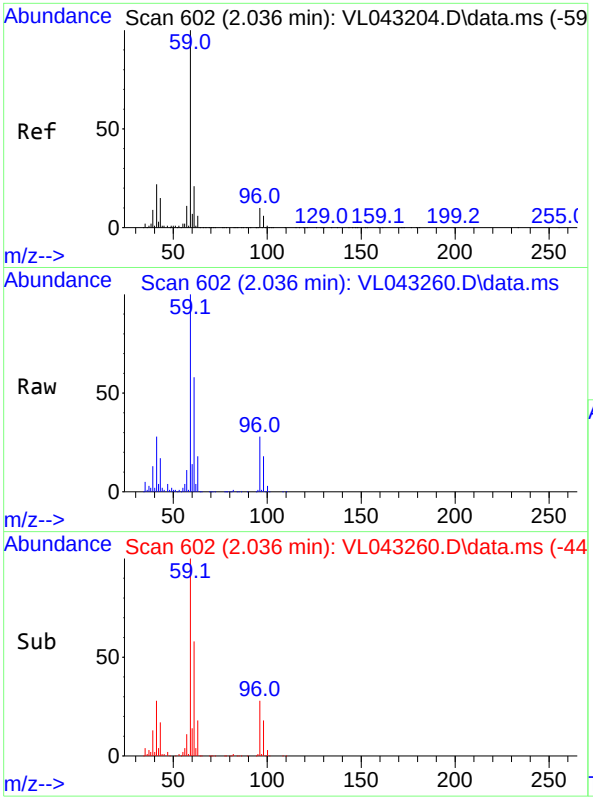


#16
1,3-Butadiene
Concen: 9.828 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 39 Resp: 61711

Ion	Ratio	Lower	Upper
39	100		
54	70.0	59.4	89.2

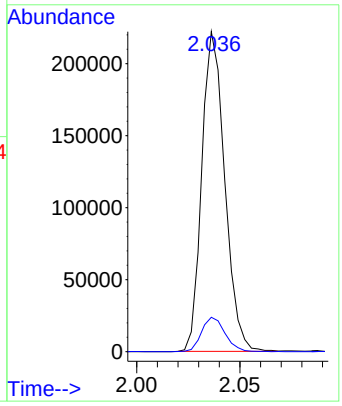




#17
tert-Butyl alcohol
Concen: 9.268 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 59 Resp: 17133

Ion	Ratio	Lower	Upper
59	100		
57	11.0	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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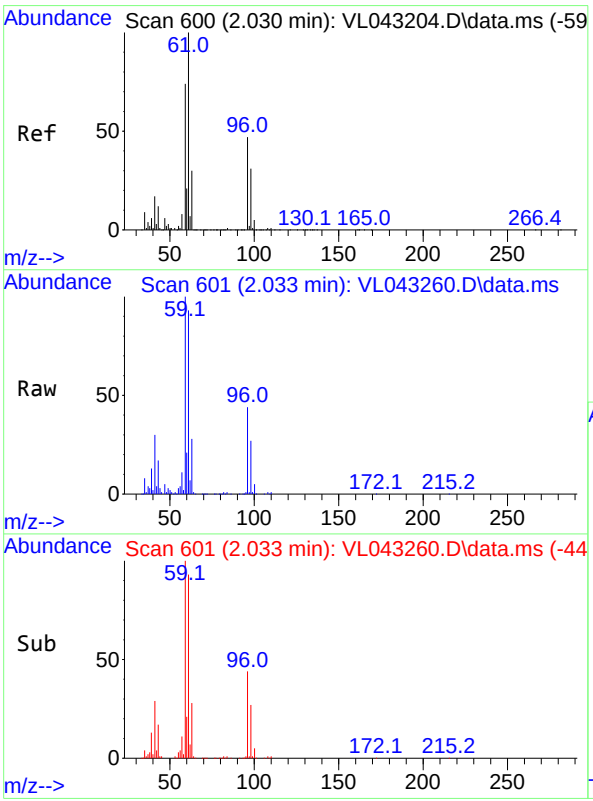
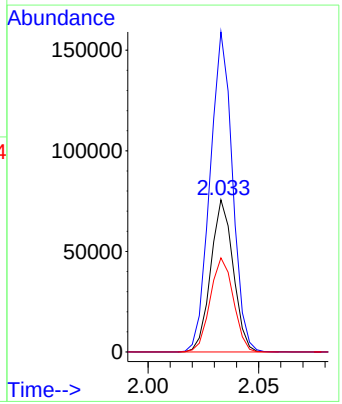
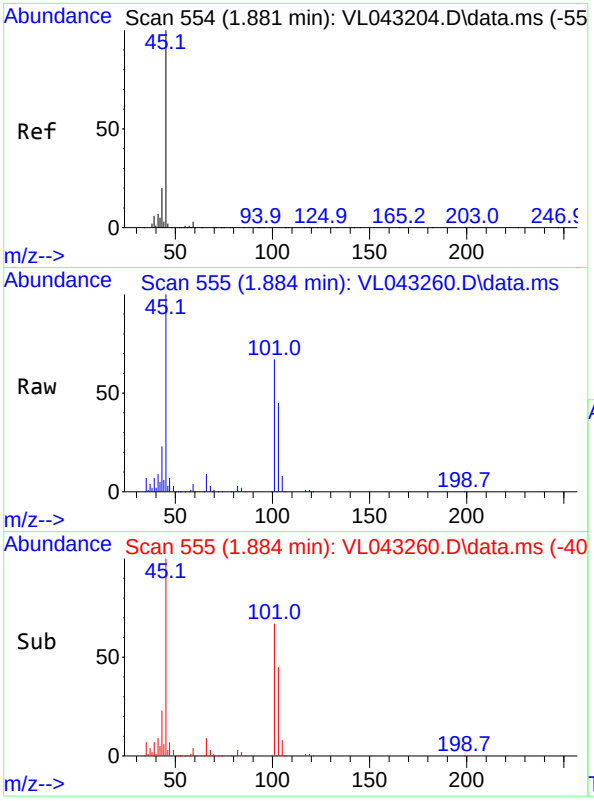


#18
1,1-Dichloroethene
Concen: 10.592 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 96 Resp: 53337

Ion	Ratio	Lower	Upper
96	100		
61	210.4	170.6	255.8
98	61.9	52.2	78.4

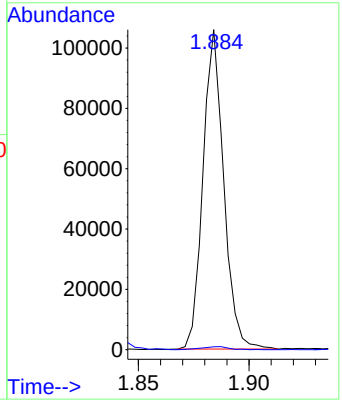




#19
Isopropyl Alcohol
Concen: 8.642 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 45 Resp: 6877

Ion	Ratio	Lower	Upper
45	100		
58	45.1	31.3	46.9



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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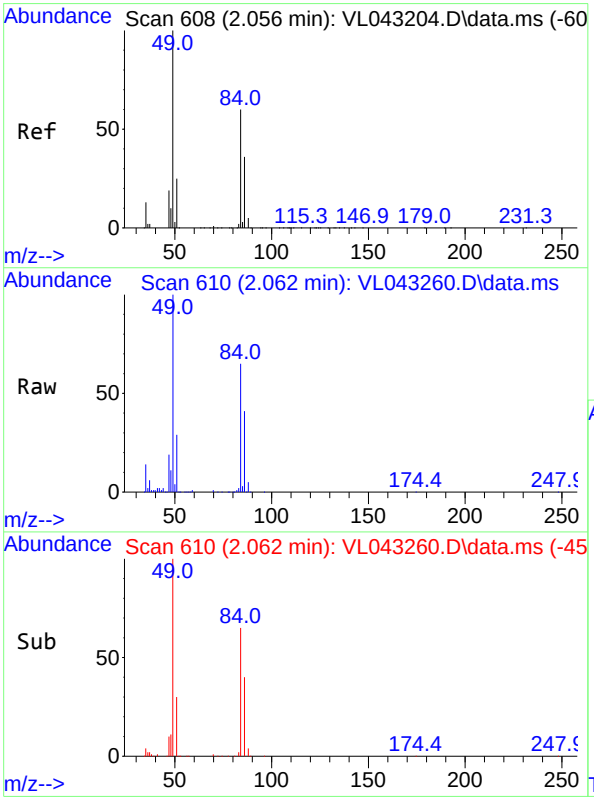
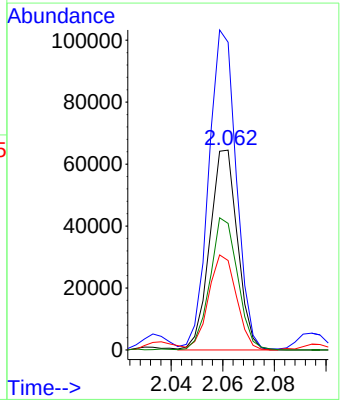
Supervised By :Mahesh Dadoda 11/21/2025

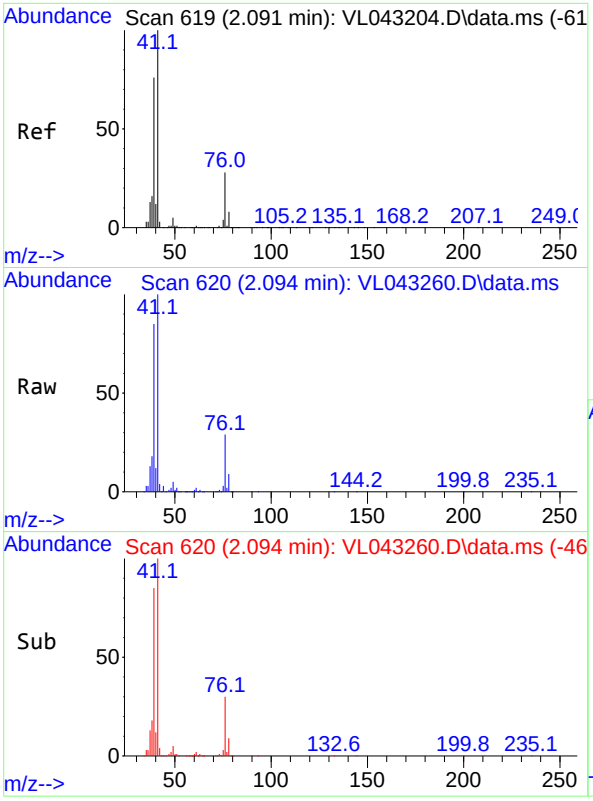


#20
Methylene Chloride
Concen: 11.763 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 84 Resp: 48243

Ion	Ratio	Lower	Upper
84	100		
49	153.6	132.9	199.3
51	44.5	34.8	52.2
86	63.2	48.2	72.2

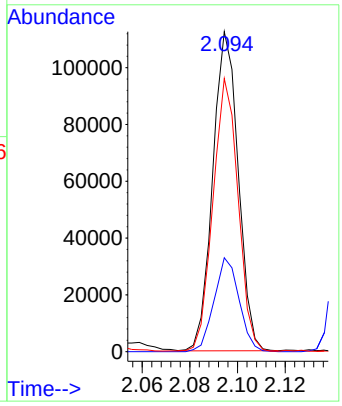




#21
Allyl Chloride
Concen: 8.808 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 41 Resp: 8346

Ion	Ratio	Lower	Upper
41	100		
76	29.0	22.1	33.1
39	84.2	61.0	91.4



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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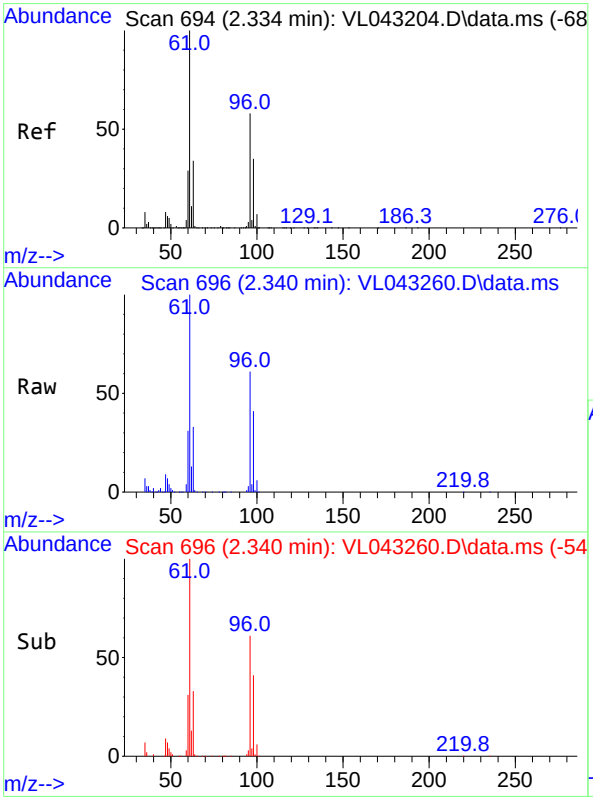
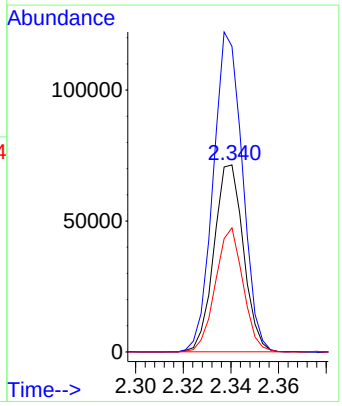
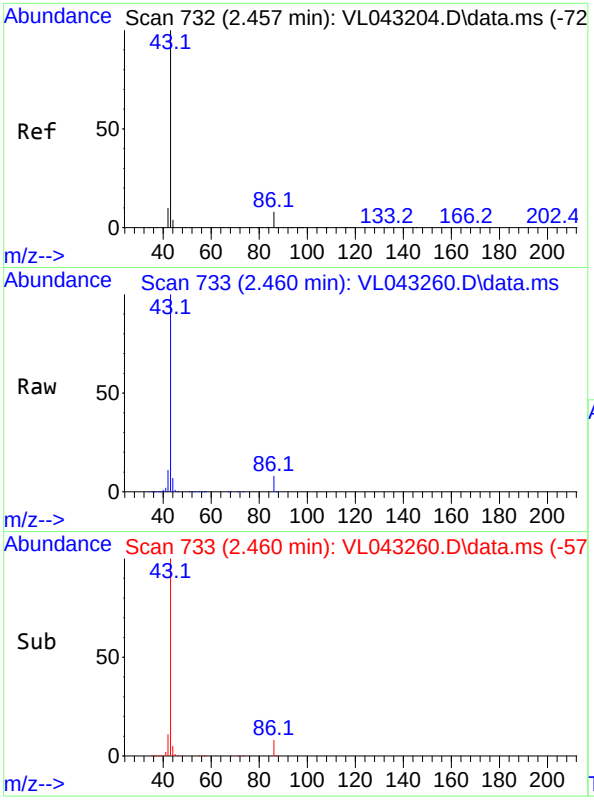


#22
trans-1,2-Dichloroethene
Concen: 10.647 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 96 Resp: 61279

Ion	Ratio	Lower	Upper
96	100		
61	163.5	139.0	208.6
98	66.4	49.4	74.2

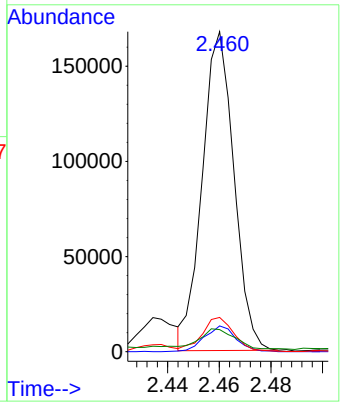




#23
Vinyl Acetate
Concen: 8.393 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 43 Resp: 14270

Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.2	9.2
42	10.6	8.0	12.0
44	6.0	4.0	6.0



Instrument :
MSVOA_L
ClientSampleId :
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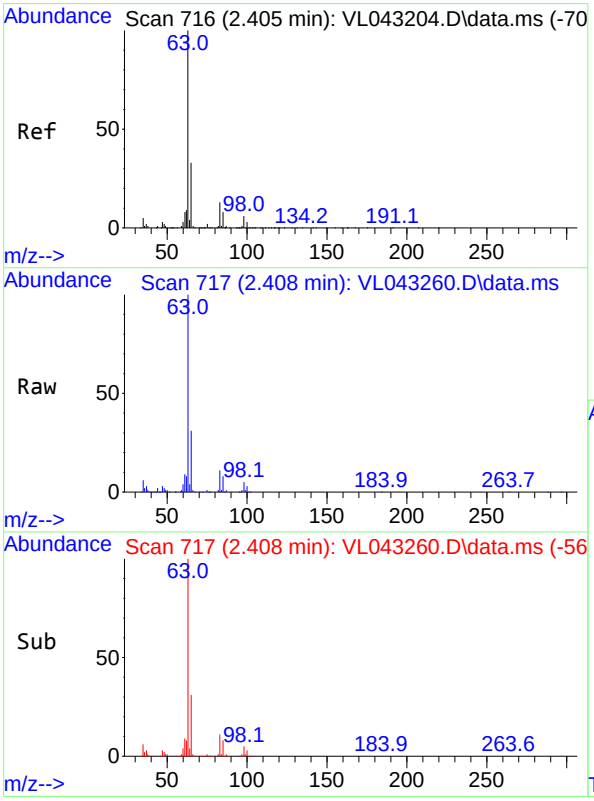
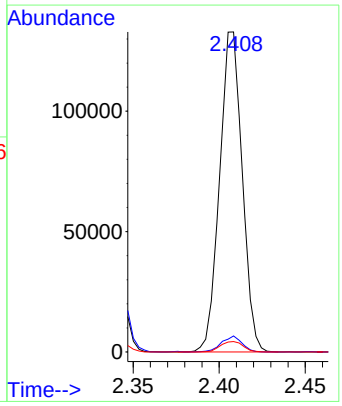
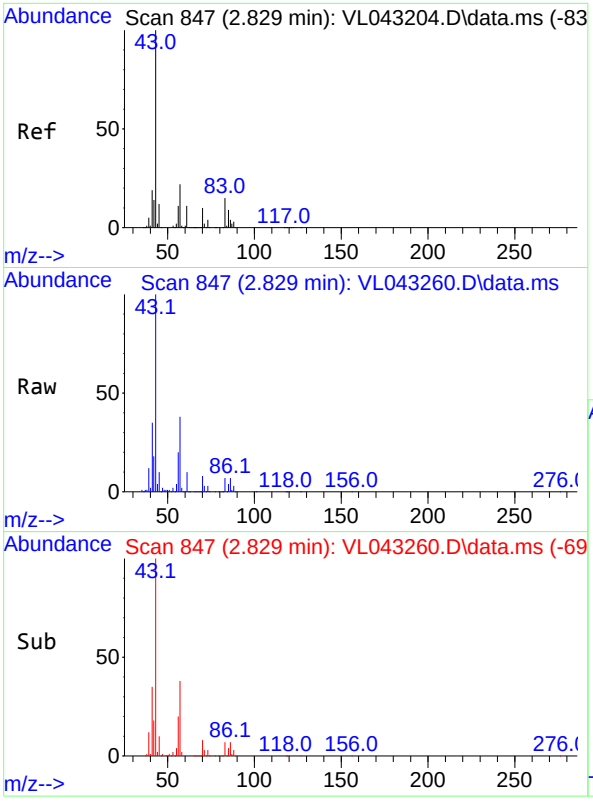


#24
1,1-Dichloroethane
Concen: 10.962 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 63 Resp: 121792

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.8	8.4
100	3.3	1.3	3.9

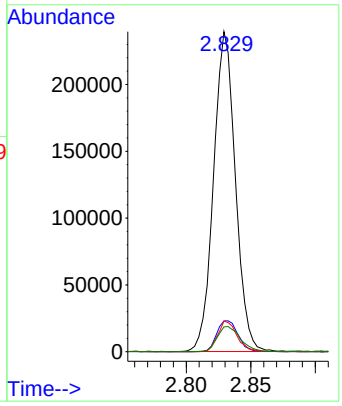




#25
Ethyl Acetate
Concen: 9.262 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 43 Resp: 28133

Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	8.5	7.0	10.4
70	8.3	7.0	10.6



Instrument :
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ClientSampleId :
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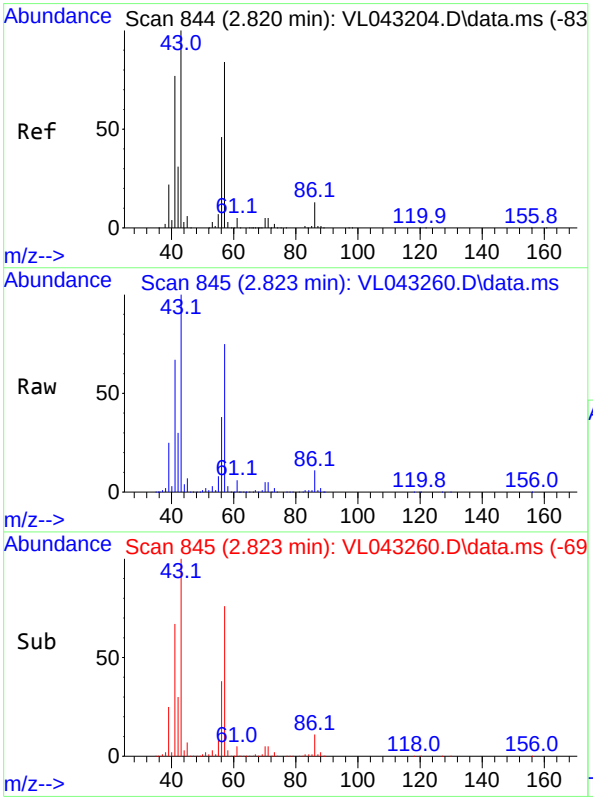
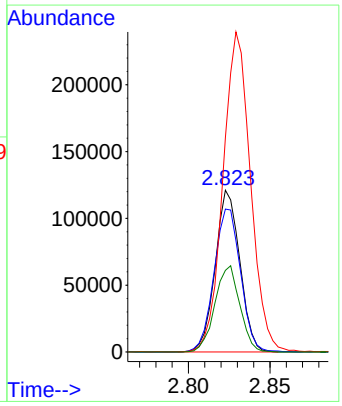
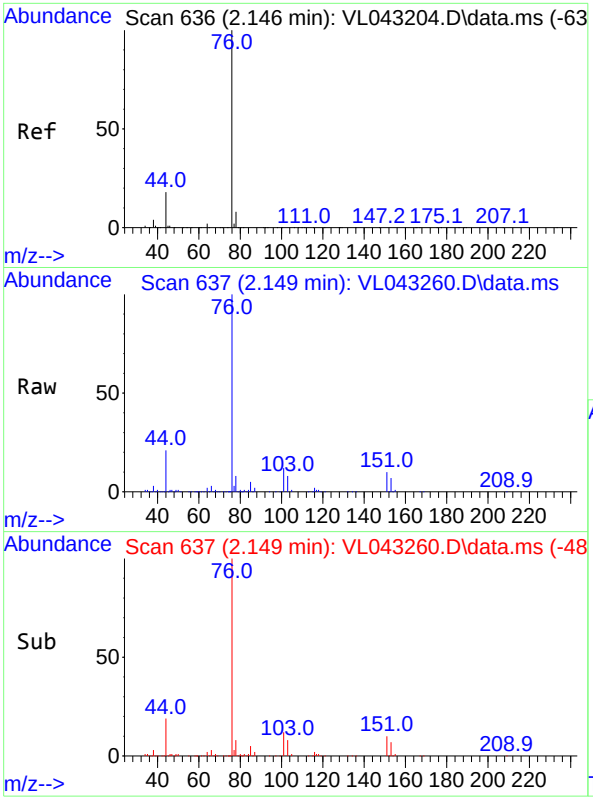


#26
Hexane
Concen: 9.501 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 57 Resp: 126532

Ion	Ratio	Lower	Upper
57	100		
41	95.8	74.6	111.8
43	224.0	179.0	268.4
56	54.1	42.3	63.5

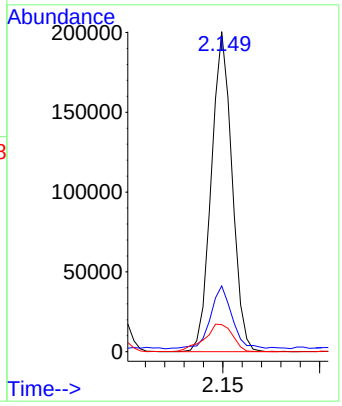




#27
Carbon Disulfide
Concen: 10.942 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 76 Resp: 14876

Ion	Ratio	Lower	Upper
76	100		
44	20.0	16.1	24.1
78	11.8	9.6	14.4



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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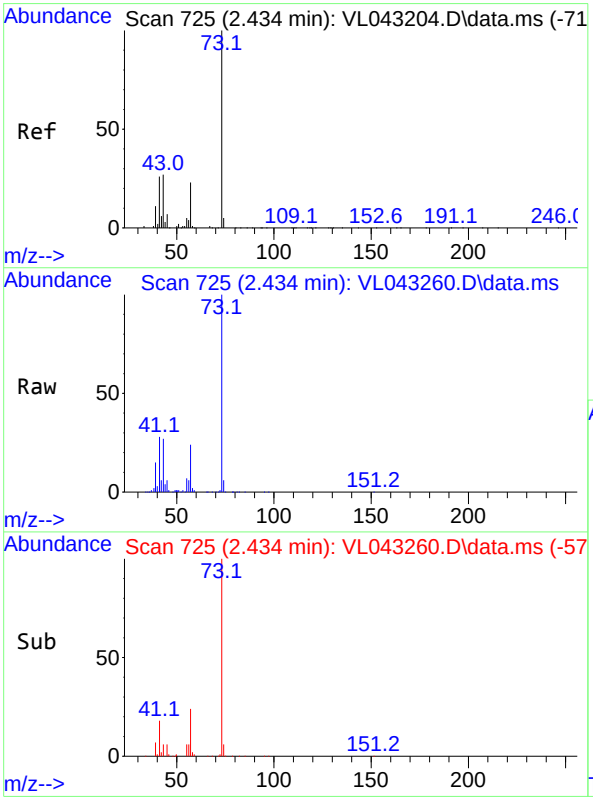
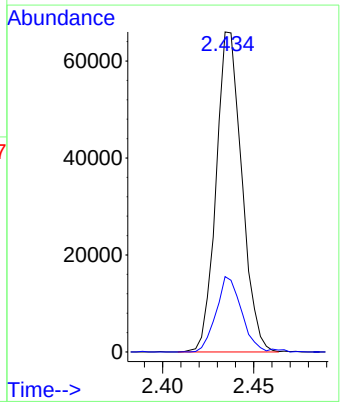
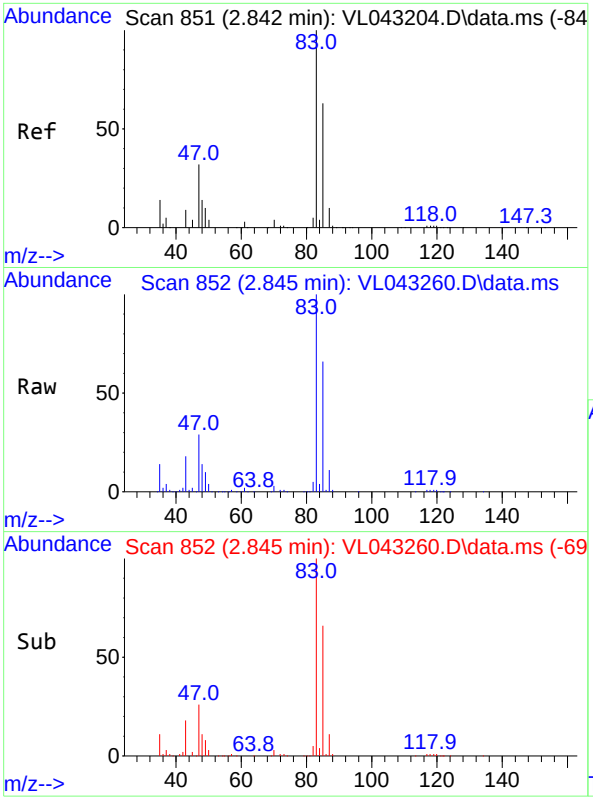


#28
Methyl tert-Butyl Ether
Concen: 9.894 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 73 Resp: 64675

Ion	Ratio	Lower	Upper
73	100		
57	23.6	19.8	29.8

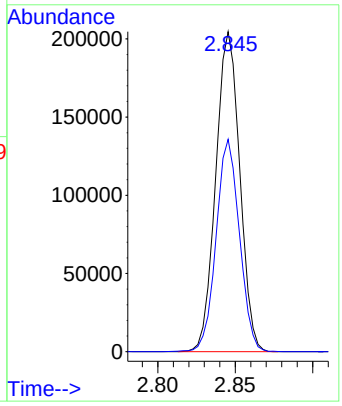




#29
Chloroform
Concen: 11.652 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 83 Resp: 22056

Ion	Ratio	Lower	Upper
83	100		
85	66.3	50.5	75.7



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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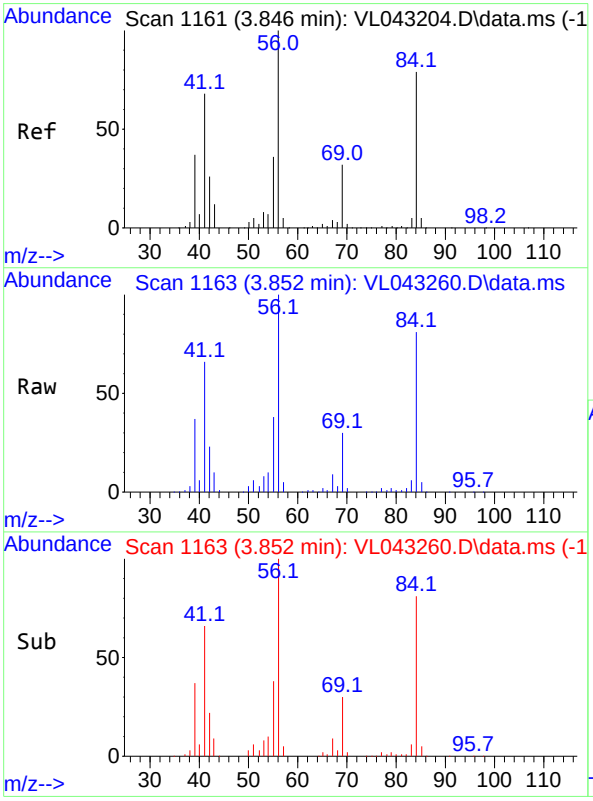
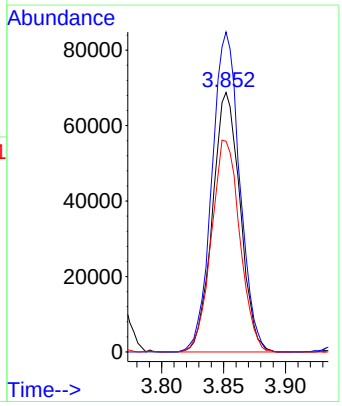
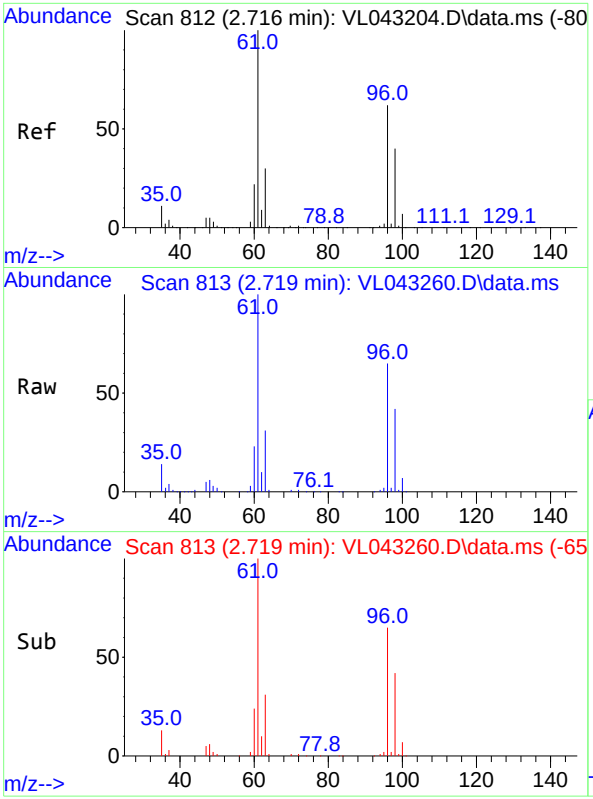


#30
Cyclohexane
Concen: 9.591 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 84 Resp: 107088

Ion	Ratio	Lower	Upper
84	100		
56	123.6	104.7	157.1
41	83.9	69.0	103.6

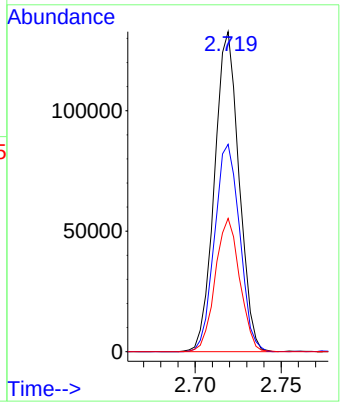




#31
cis-1,2-Dichloroethene
Concen: 9.953 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 61 Resp: 13174

Ion	Ratio	Lower	Upper
61	100		
96	64.8	49.3	73.9
98	41.7	32.1	48.1



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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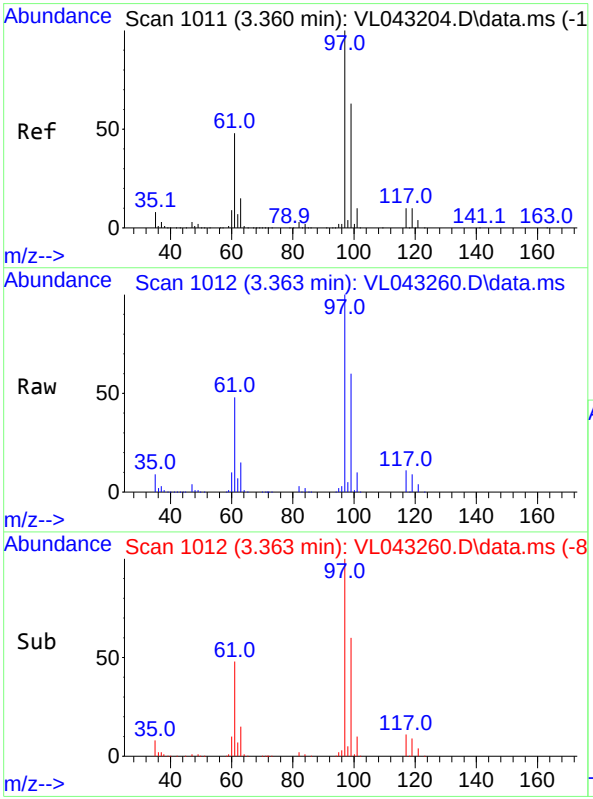
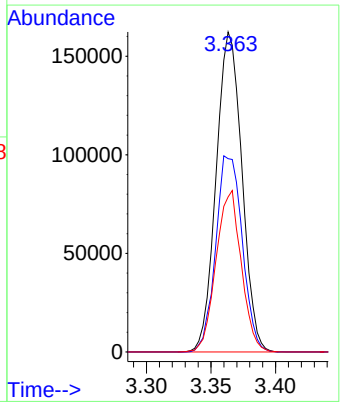
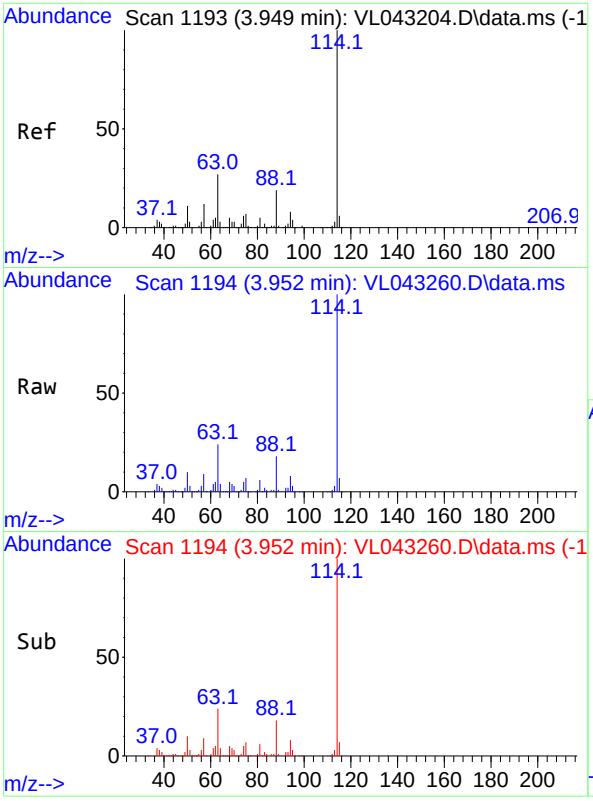


#32
1,1,1-Trichloroethane
Concen: 11.168 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 97 Resp: 225329

Ion	Ratio	Lower	Upper
97	100		
99	63.2	50.3	75.5
61	49.5	38.9	58.3

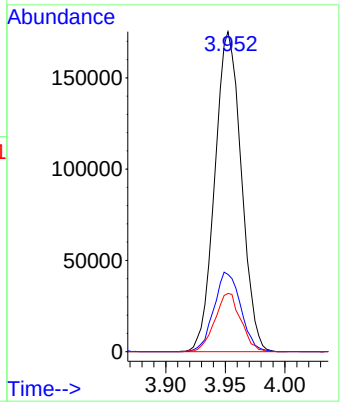




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:114 Resp: 27011

Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.0	31.6
88	17.9	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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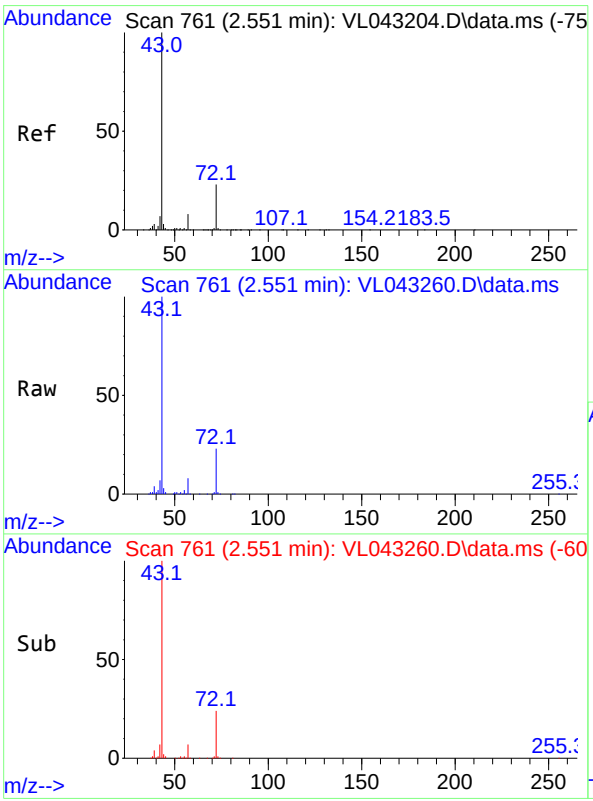
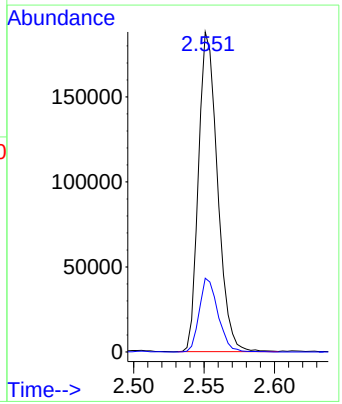
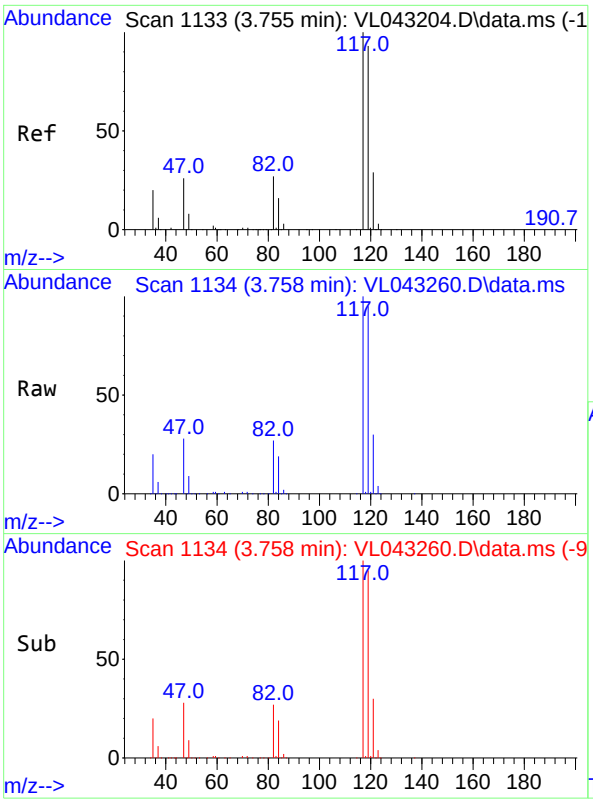


#34
2-Butanone
Concen: 9.287 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 43 Resp: 177069

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.1	27.1

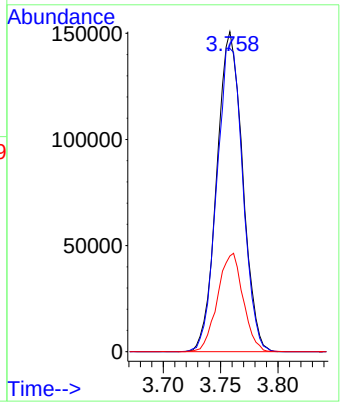




#35
Carbon Tetrachloride
Concen: 11.515 ppbv
RT: 3.758 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:117 Resp: 23608

Ion	Ratio	Lower	Upper
117	100		
119	94.7	74.6	112.0
121	29.9	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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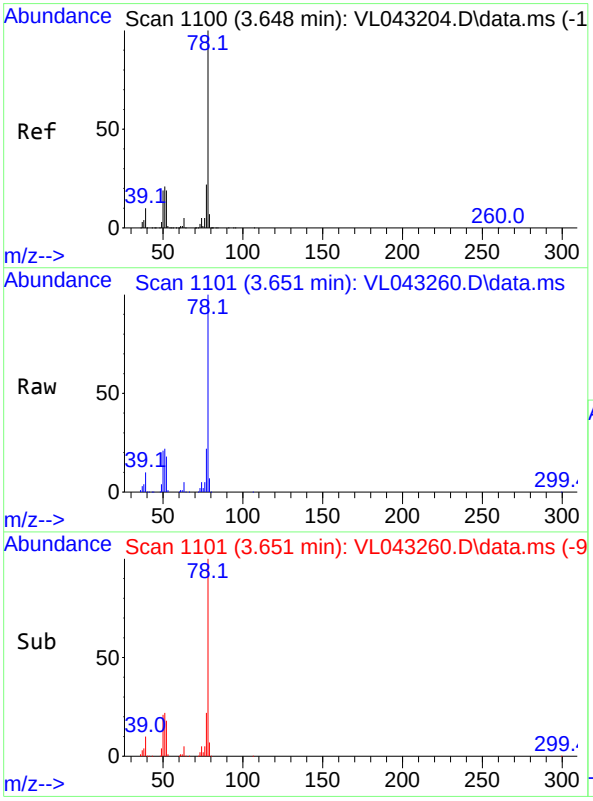
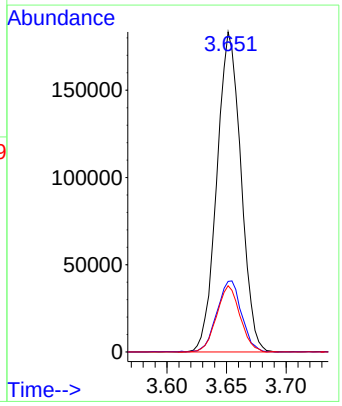
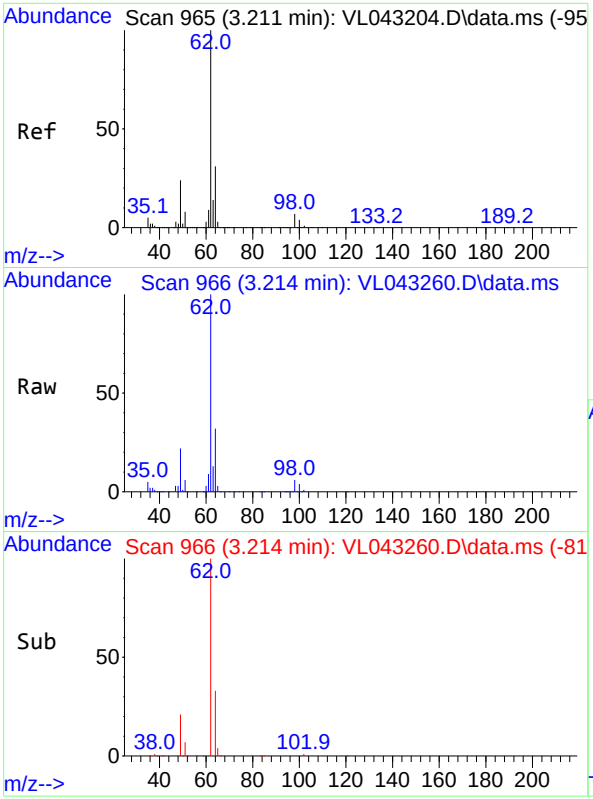


#36
Benzene
Concen: 9.954 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 78 Resp: 257481

Ion	Ratio	Lower	Upper
78	100		
77	22.1	17.5	26.3
50	20.7	15.5	23.3

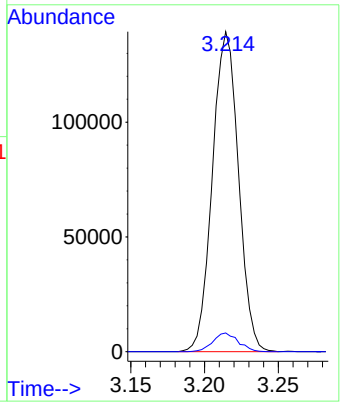




#37
1,2-Dichloroethane
Concen: 11.329 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 62 Resp: 17141

Ion	Ratio	Lower	Upper
62	100		
98	5.7	5.5	8.3



Instrument :
MSVOA_L
ClientSampleId :
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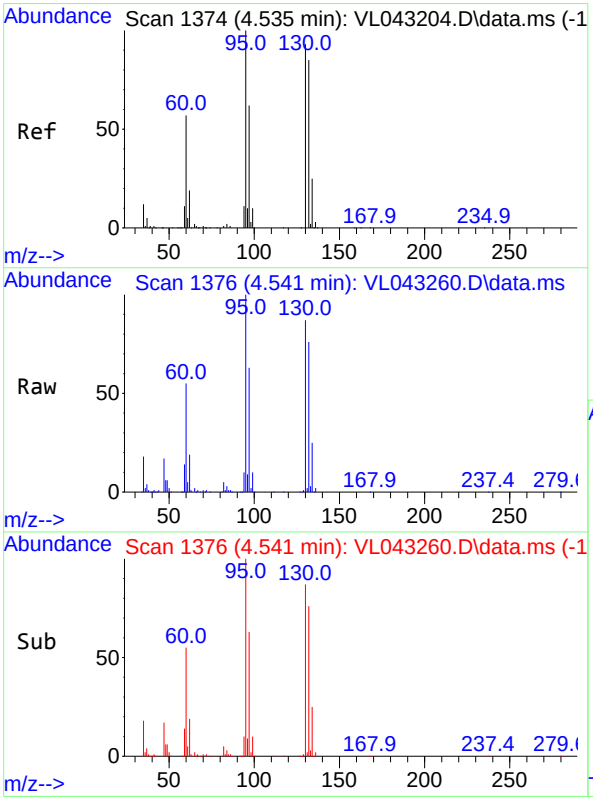
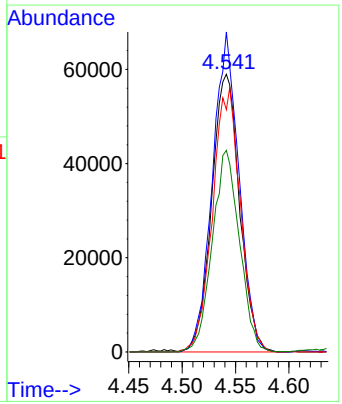
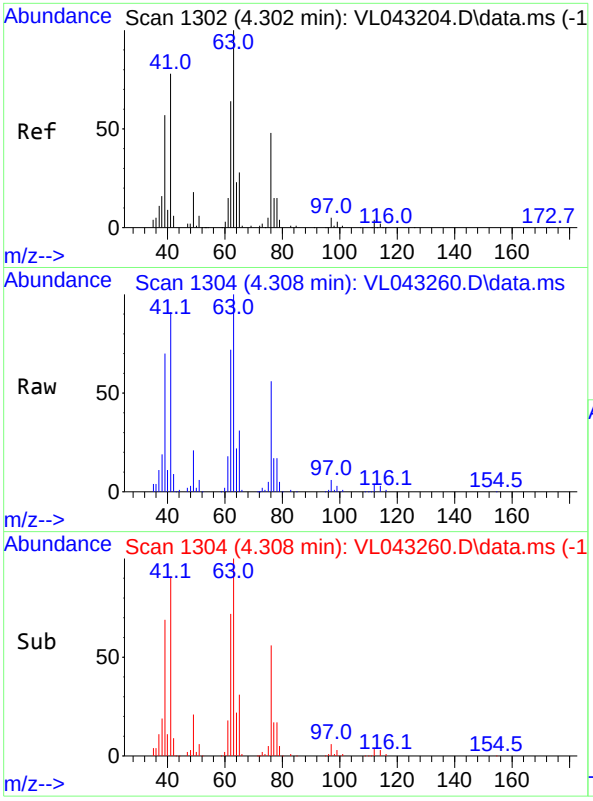


#38
Trichloroethene
Concen: 10.582 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:130 Resp: 107097

Ion	Ratio	Lower	Upper
130	100		
95	115.2	85.7	128.5
132	87.2	73.4	110.0
97	72.6	52.7	79.1

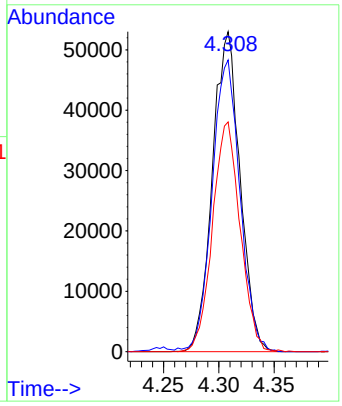




#39
1,2-Dichloropropane
Concen: 9.724 ppbv
RT: 4.308 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 63 Resp: 9206

Ion	Ratio	Lower	Upper
63	100		
41	91.1	62.6	93.8
62	71.8	51.0	76.6



Instrument :
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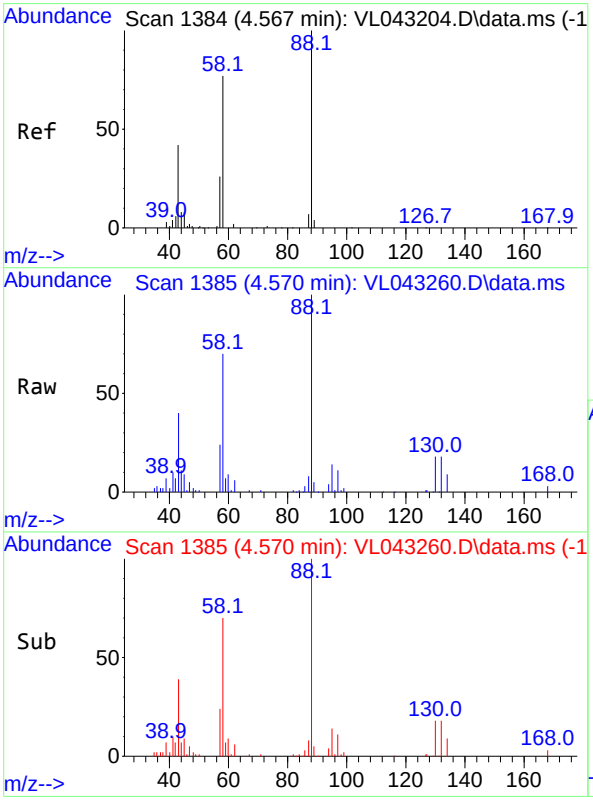
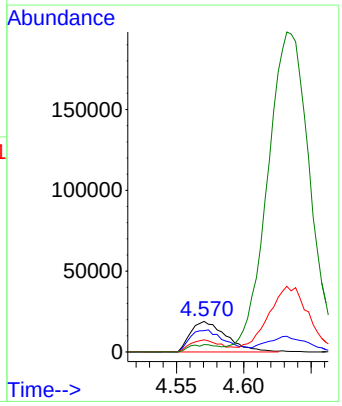
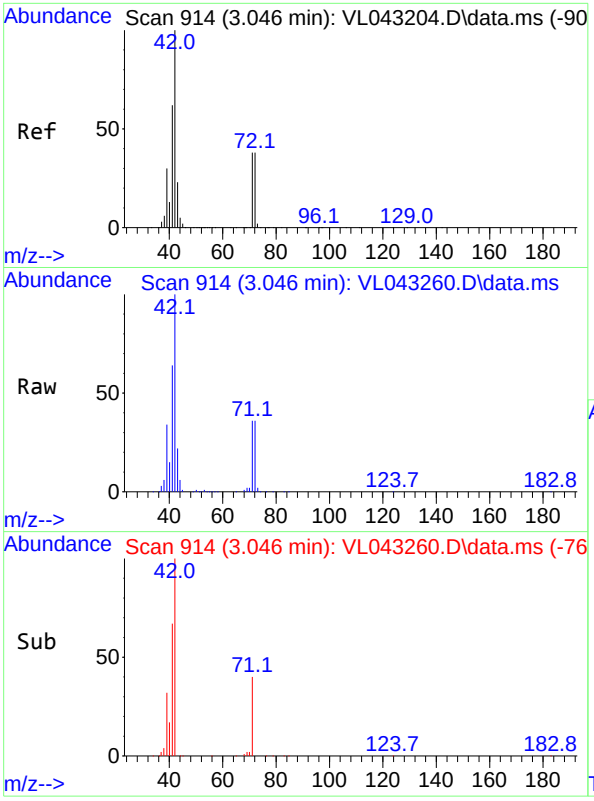


#40
1,4-Dioxane
Concen: 8.236 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 88 Resp: 35055

Ion	Ratio	Lower	Upper
88	100		
58	72.0	63.0	94.6
43	36.6	32.5	48.7
57	0.0	0.0	0.0

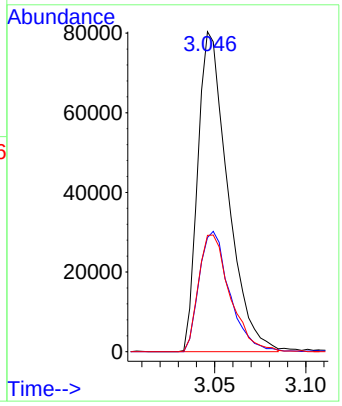




#41
Tetrahydrofuran
Concen: 8.739 ppbv
RT: 3.046 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 42 Resp: 9201

Ion	Ratio	Lower	Upper
42	100		
72	38.4	30.6	46.0
71	38.5	30.5	45.7



Instrument :
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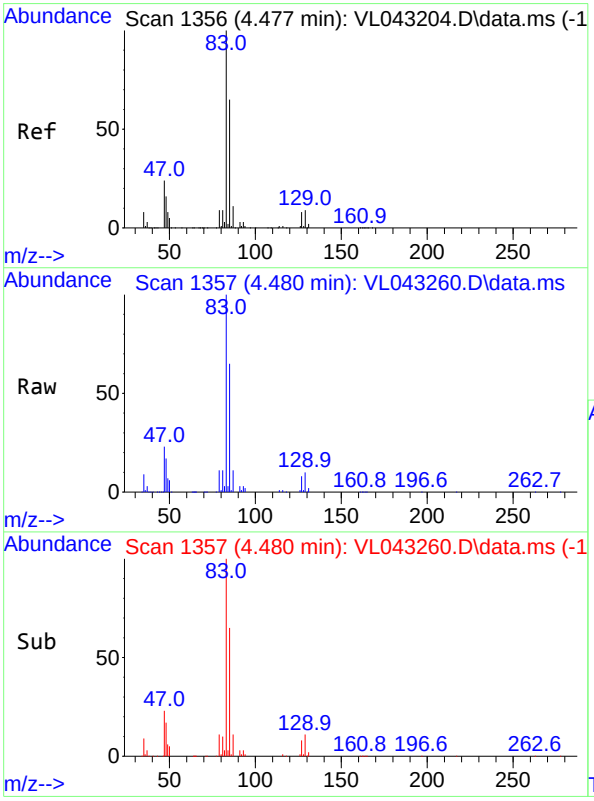
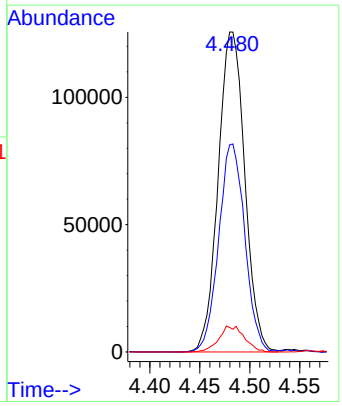
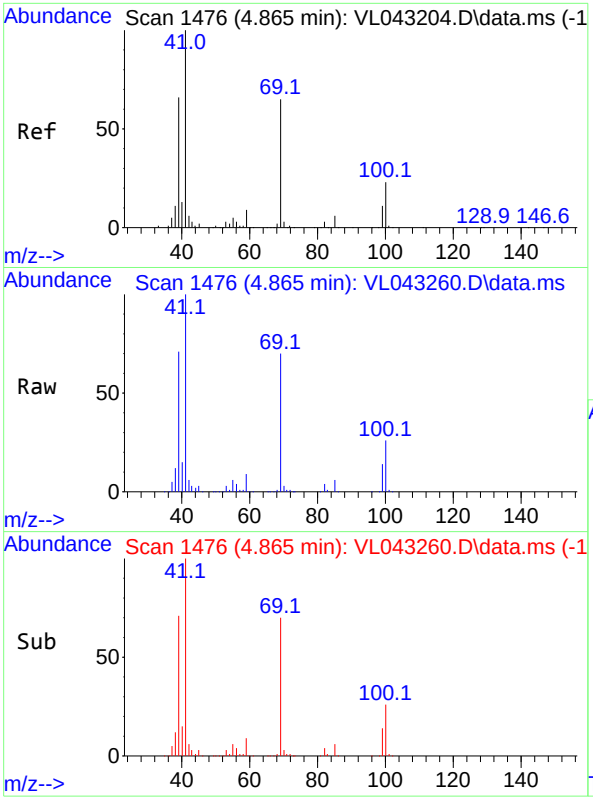


#42
Bromodichloromethane
Concen: 11.161 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 83 Resp: 232959

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.7	77.5
127	7.6	6.3	9.5

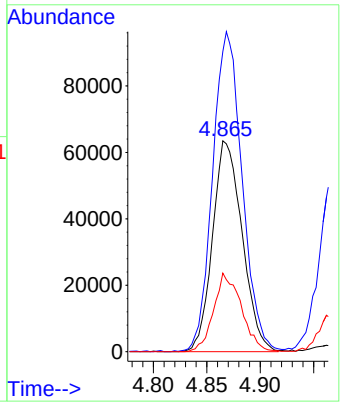




#43
Methyl Methacrylate
Concen: 8.920 ppbv
RT: 4.865 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 69 Resp: 12248

Ion	Ratio	Lower	Upper
69	100		
41	151.7	126.7	190.1
100	34.8	28.6	43.0



Instrument :
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ClientSampleId :
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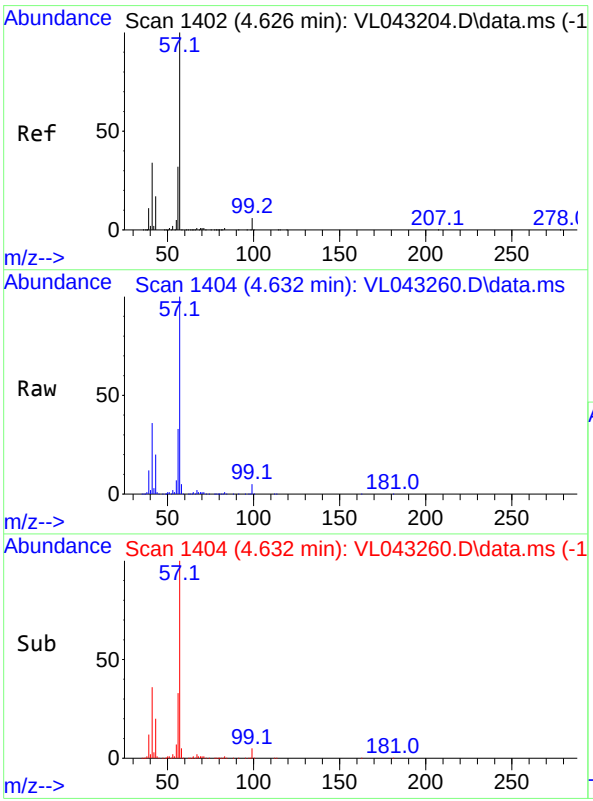
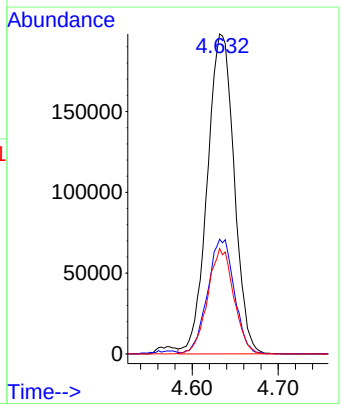
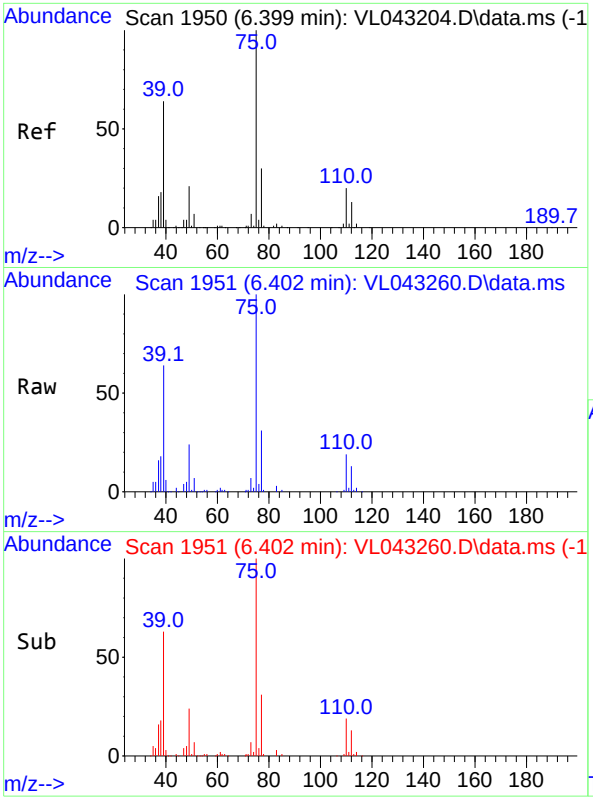


#44
2,2,4-Trimethylpentane
Concen: 9.646 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 57 Resp: 428558

Ion	Ratio	Lower	Upper
57	100		
41	36.7	28.0	42.0
56	32.2	25.6	38.4

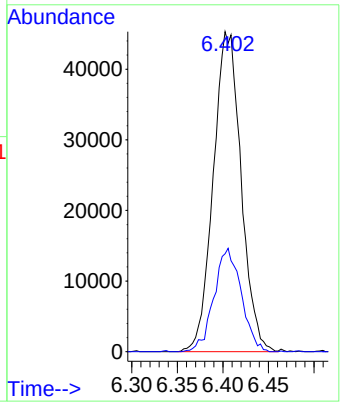




#45
t-1,3-Dichloropropene
Concen: 7.511 ppbv
RT: 6.402 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 75 Resp: 9613

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.3	36.5



Instrument :
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ClientSampleId :
VL1120ABS01

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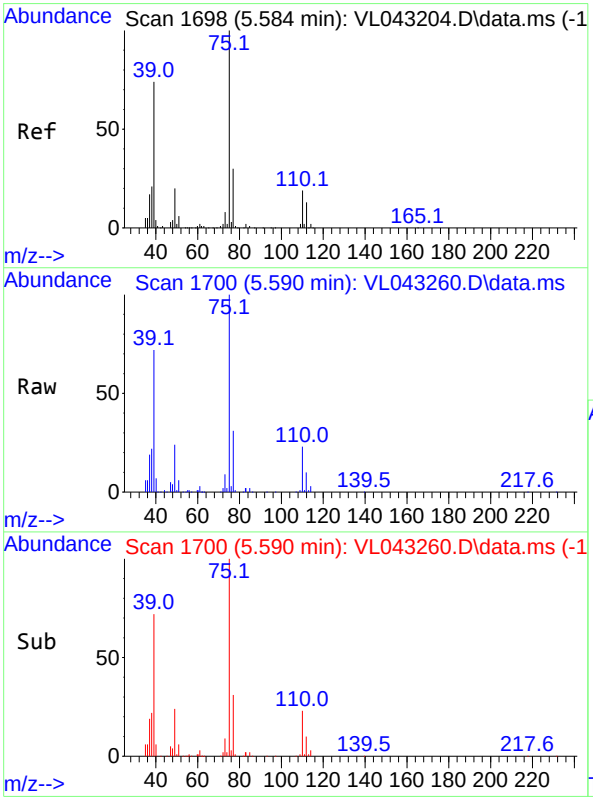
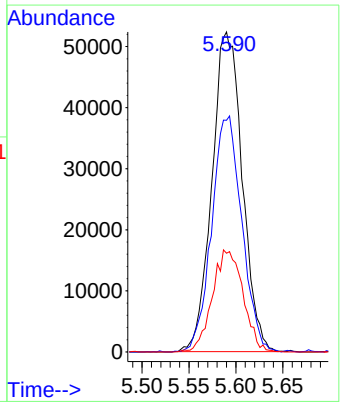
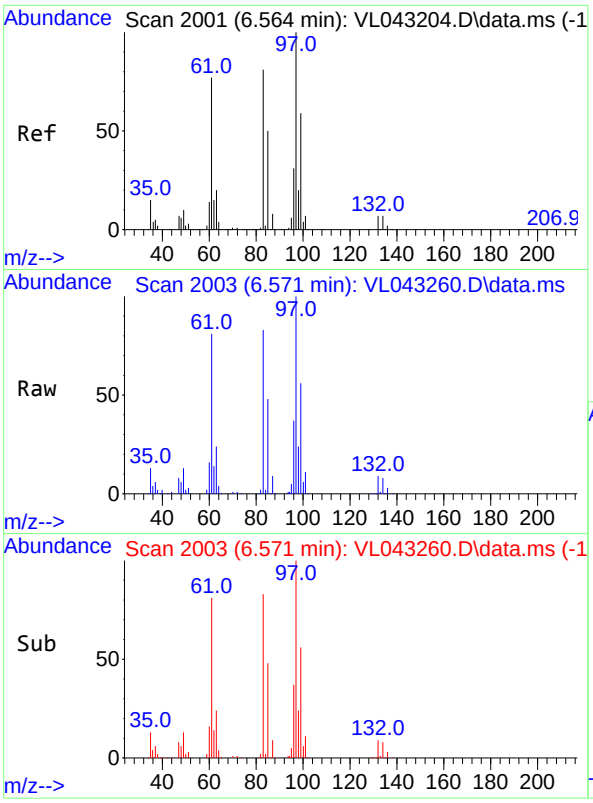


#46
cis-1,3-Dichloropropene
Concen: 7.810 ppbv
RT: 5.590 min Scan# 1700
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 75 Resp: 117380

Ion	Ratio	Lower	Upper
75	100		
39	72.3	59.1	88.7
77	30.8	24.2	36.2

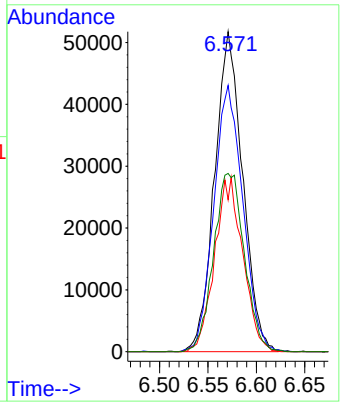




#47
1,1,2-Trichloroethane
Concen: 10.369 ppbv
RT: 6.571 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 97 Resp: 10418

Ion	Ratio	Lower	Upper
97	100		
83	83.2	64.6	97.0
85	47.5	39.4	59.2
99	55.7	47.0	70.6



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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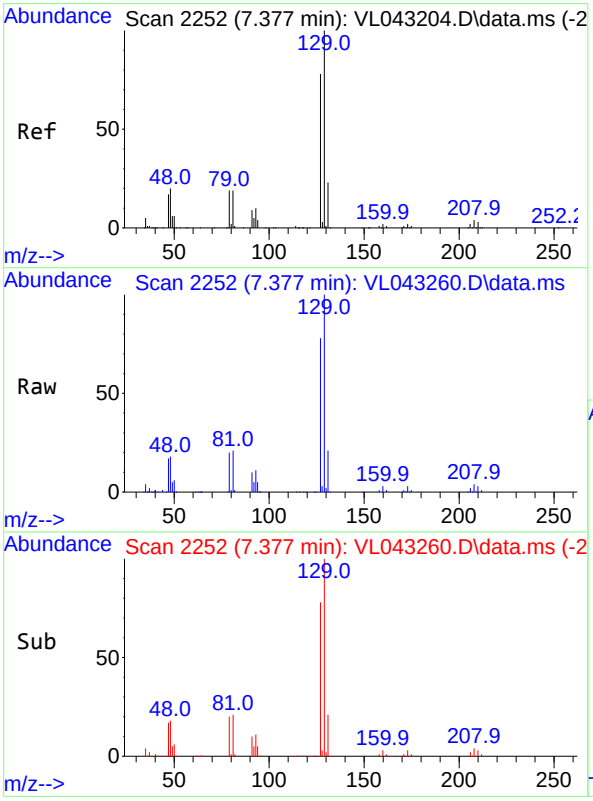
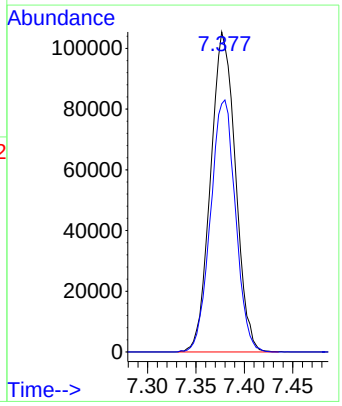
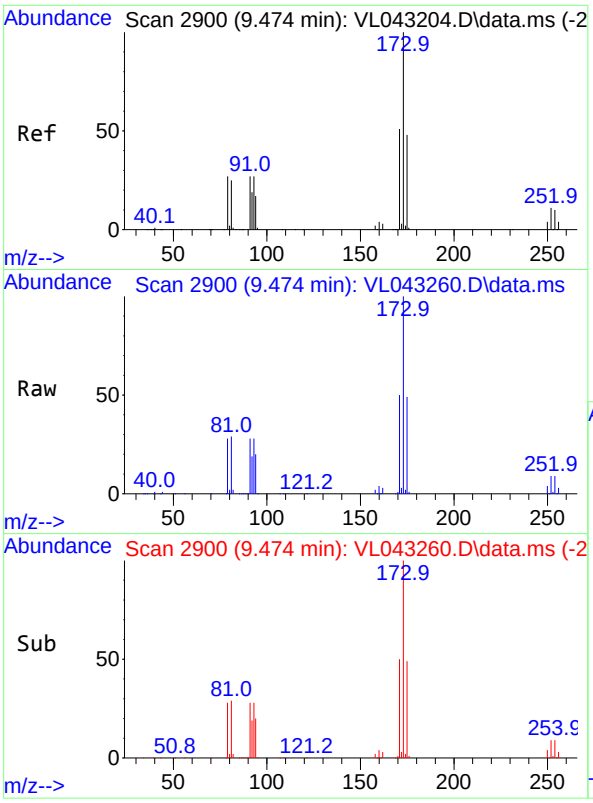


#48
Dibromochloromethane
Concen: 10.892 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:129 Resp: 188165

Ion	Ratio	Lower	Upper
129	100		
127	79.2	39.3	117.9

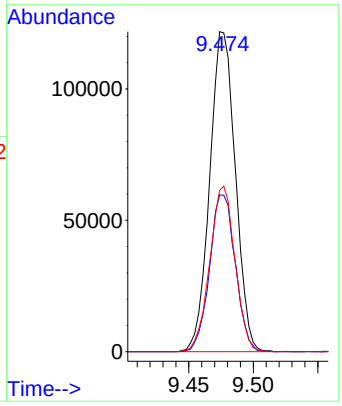




#49
Bromoform
Concen: 10.991 ppbv
RT: 9.474 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:173 Resp: 16817

Ion	Ratio	Lower	Upper
173	100		
175	49.1	38.6	58.0
171	50.7	40.6	61.0



Instrument :
MSVOA_L
ClientSampleId :
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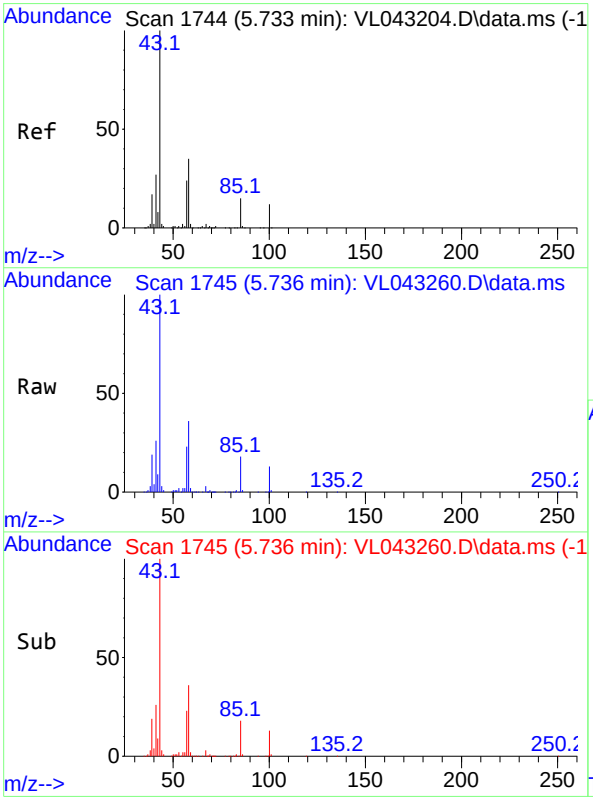
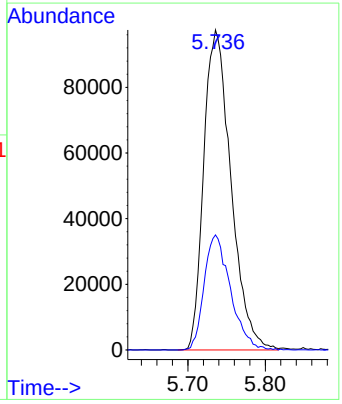
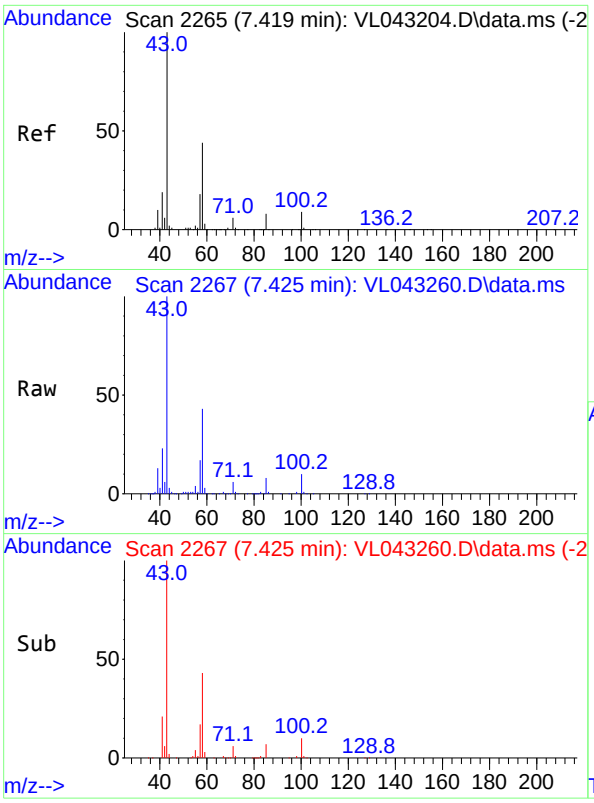


#50
4-Methyl-2-Pentanone
Concen: 8.859 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 43 Resp: 237956

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.4	42.6

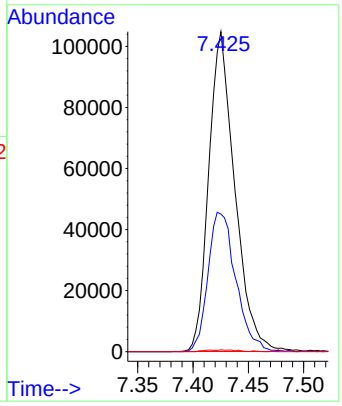




#51
2-Hexanone
Concen: 8.187 ppbv
RT: 7.425 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 43 Resp: 17076

Ion	Ratio	Lower	Upper
43	100		
58	47.0	38.4	57.6
98	0.7	0.0	0.0



Instrument :
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ClientSampleId :
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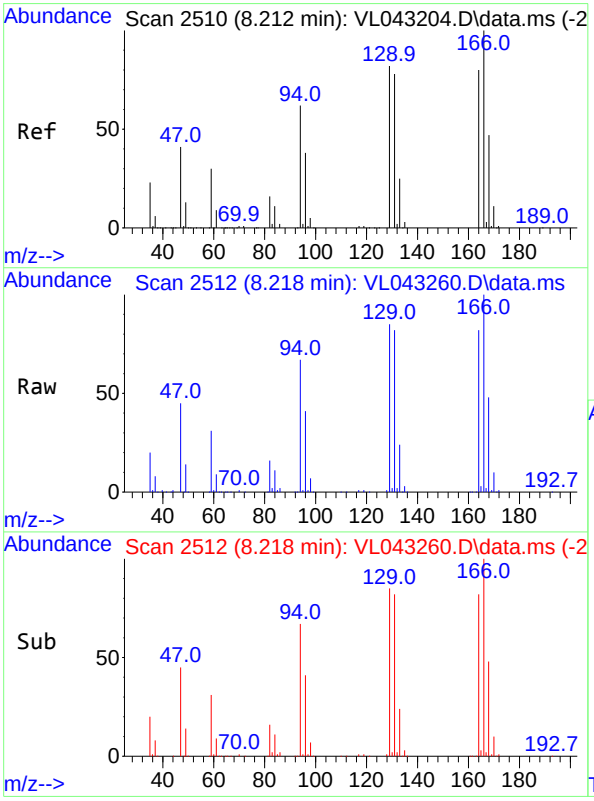
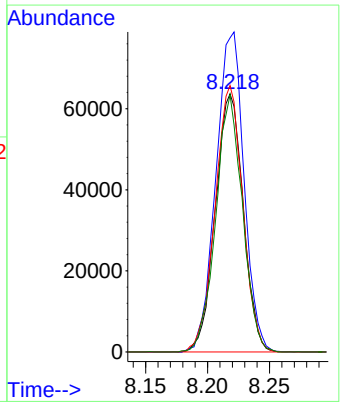
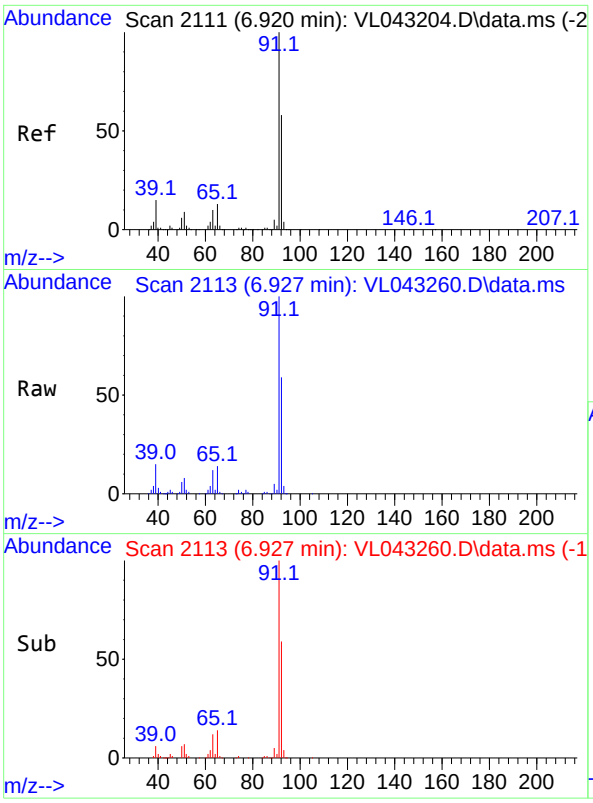


#52
Tetrachloroethene
Concen: 10.391 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:164 Resp: 99982

Ion	Ratio	Lower	Upper
164	100		
166	121.7	99.4	149.2
129	103.2	81.8	122.8
131	99.6	77.4	116.2

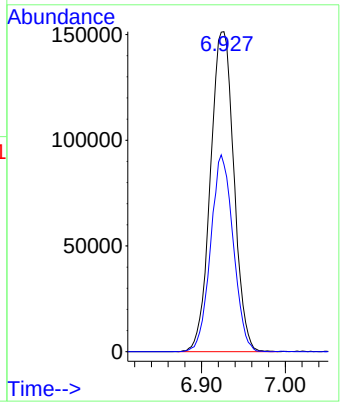




#53
Toluene
Concen: 9.614 ppbv
RT: 6.927 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 91 Resp: 29448

Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.4	71.0



Instrument :
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ClientSampleId :
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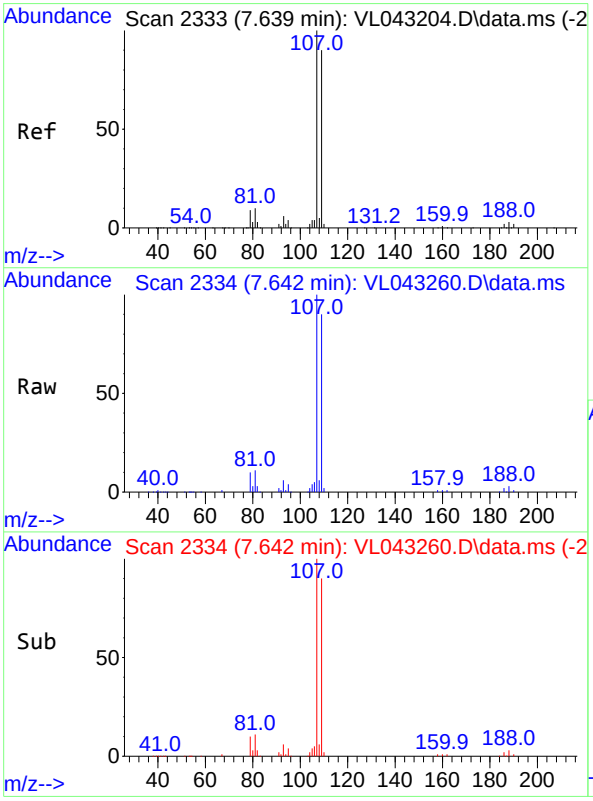
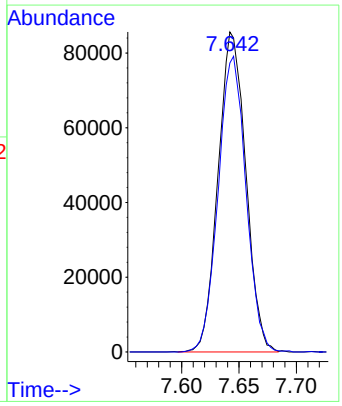
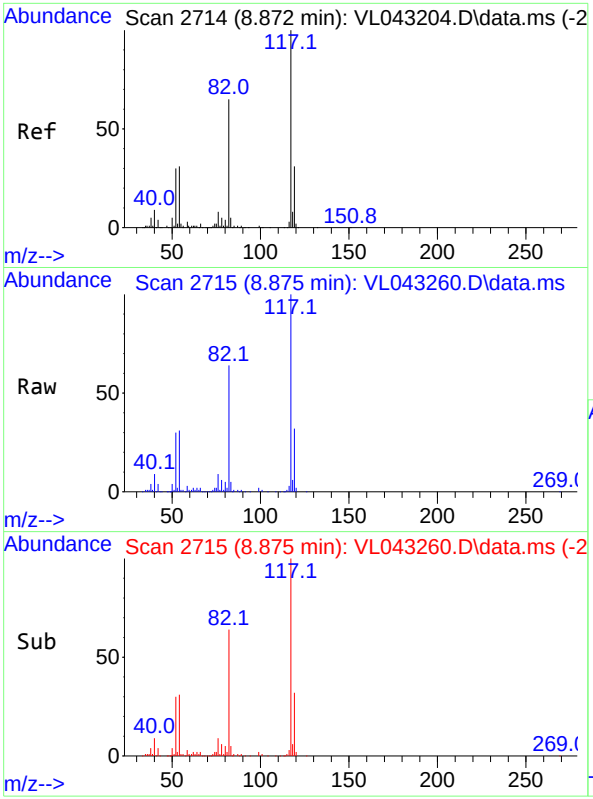


#54
1,2-Dibromoethane
Concen: 9.720 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:107 Resp: 143721

Ion	Ratio	Lower	Upper
107	100		
109	90.3	72.1	108.1

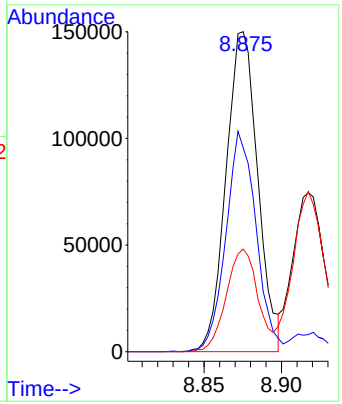




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:117 Resp: 21447

Ion	Ratio	Lower	Upper
117	100		
82	71.5	56.1	84.1
119	31.9	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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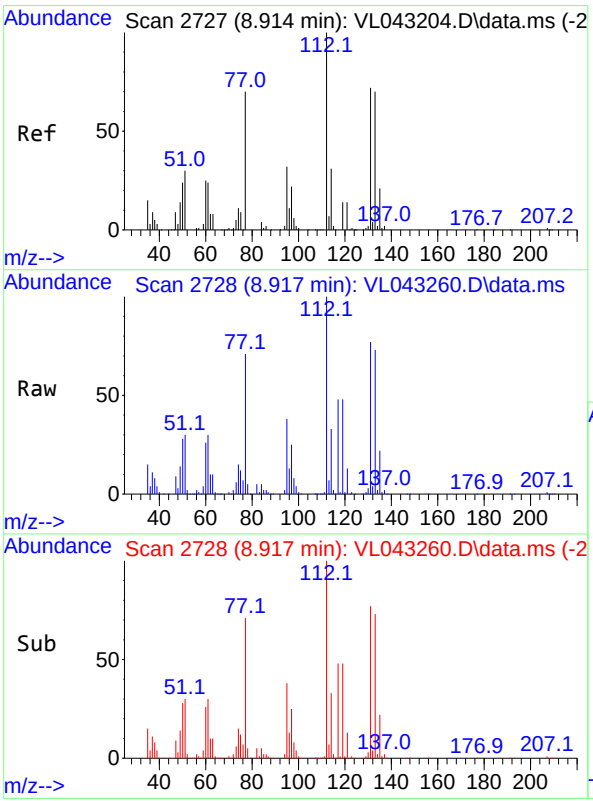
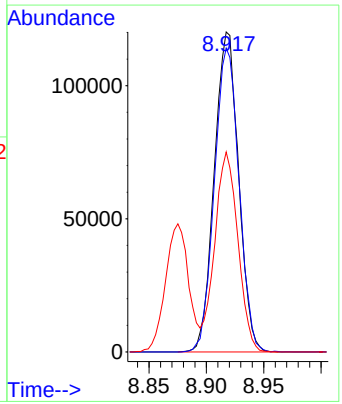
Supervised By :Mahesh Dadoda 11/21/2025

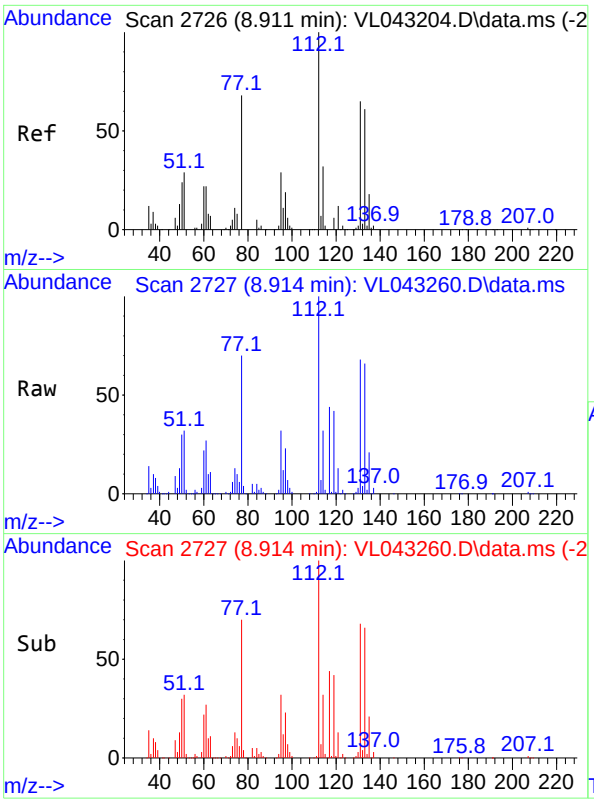


#56
1,1,1,2-Tetrachloroethane
Concen: 11.221 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:131 Resp: 176862

Ion	Ratio	Lower	Upper
131	100		
133	96.3	77.4	116.2
119	60.7	49.1	73.7

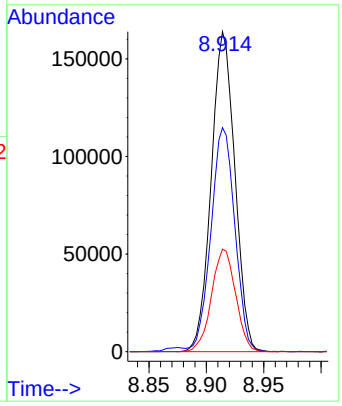




#57
Chlorobenzene
Concen: 10.664 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:112 Resp: 23481

Ion	Ratio	Lower	Upper
112	100		
77	70.0	55.5	83.3
114	32.1	29.1	35.5



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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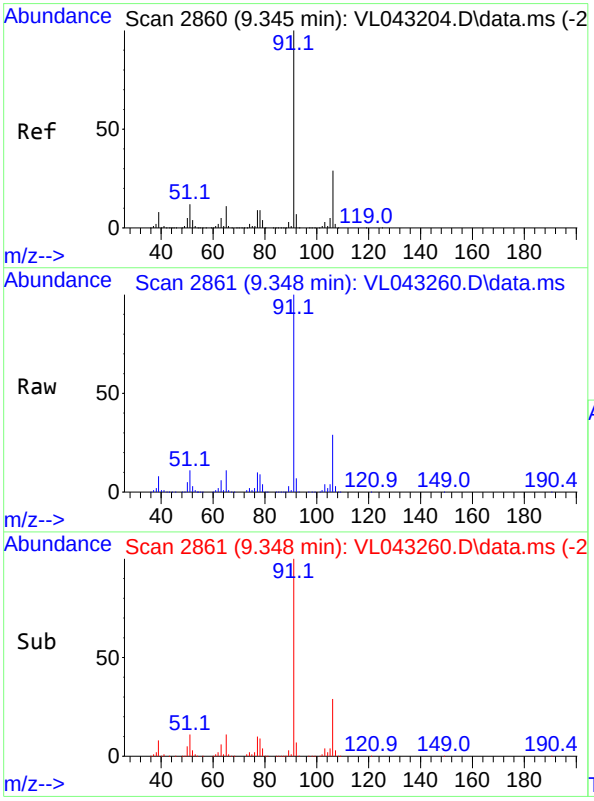
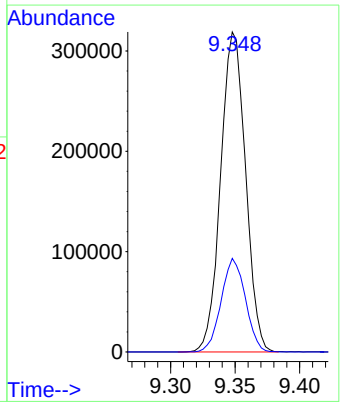
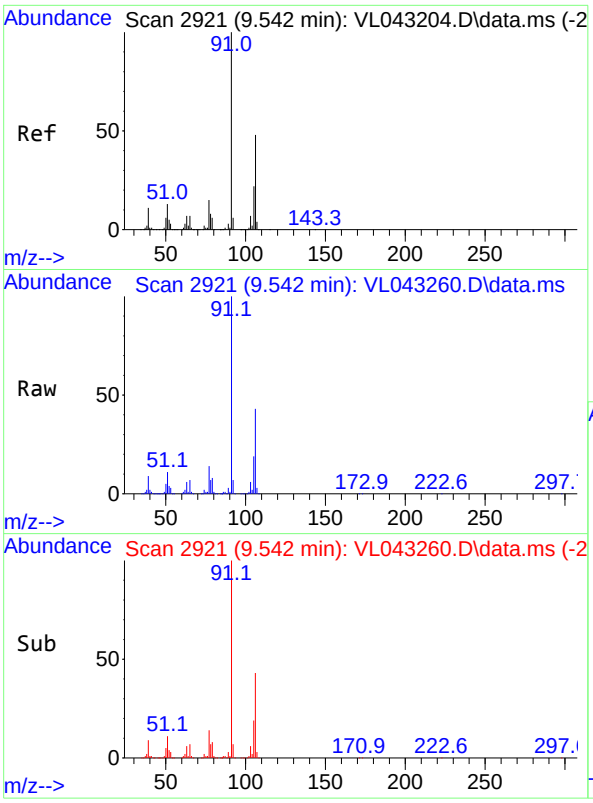


#58
Ethyl Benzene
Concen: 10.357 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 91 Resp: 427546

Ion	Ratio	Lower	Upper
91	100		
106	29.3	22.8	34.2

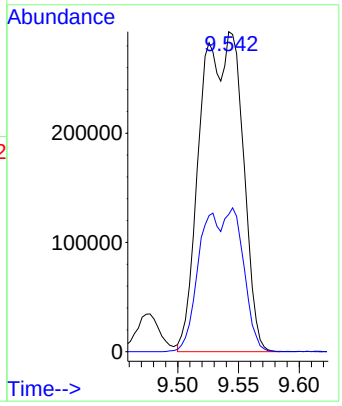




#59
m/p-Xylene
Concen: 21.422 ppbv m
RT: 9.542 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 91 Resp: 70897

Ion	Ratio	Lower	Upper
91	100		
106	45.0	36.1	54.1



Instrument :
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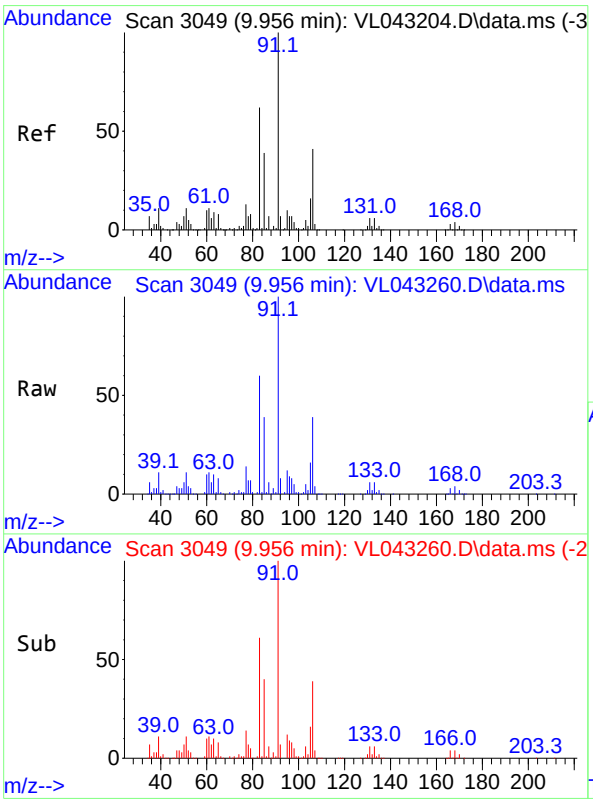
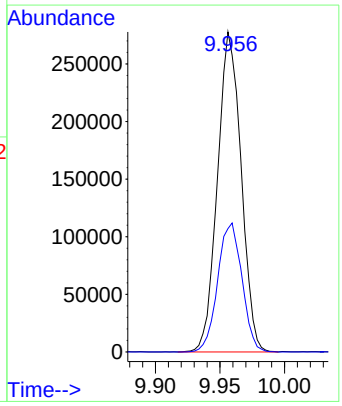
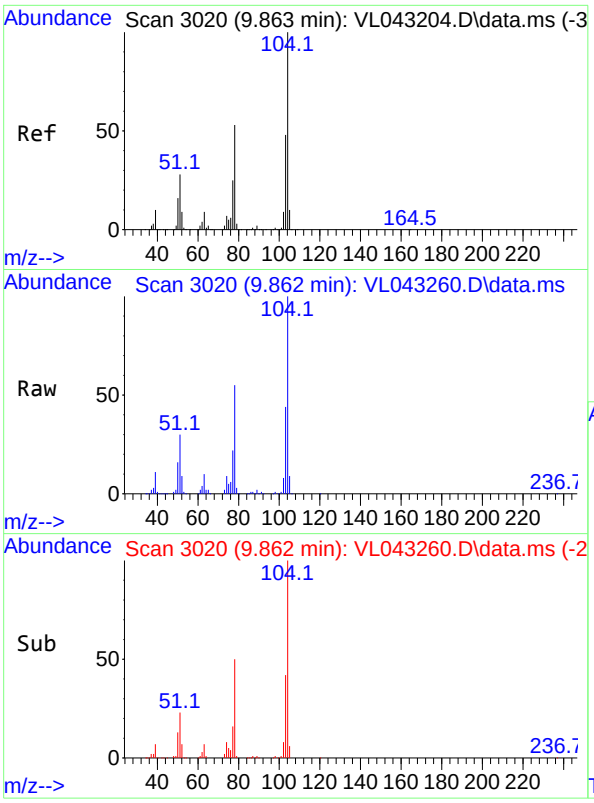


#60
o-Xylene
Concen: 10.695 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 91 Resp: 353595

Ion	Ratio	Lower	Upper
91	100		
106	41.3	20.9	62.8

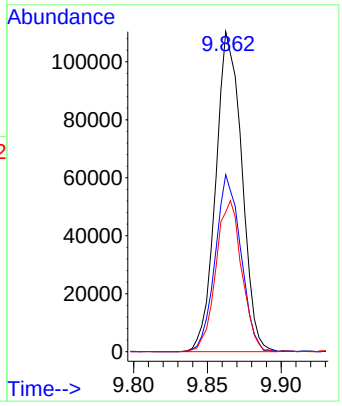




#61
Styrene
Concen: 9.363 ppbv
RT: 9.862 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:104 Resp: 13547

Ion	Ratio	Lower	Upper
104	100		
78	54.3	42.1	63.1
103	47.1	37.2	55.8



Instrument :
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ClientSampleId :
VL1120ABS01

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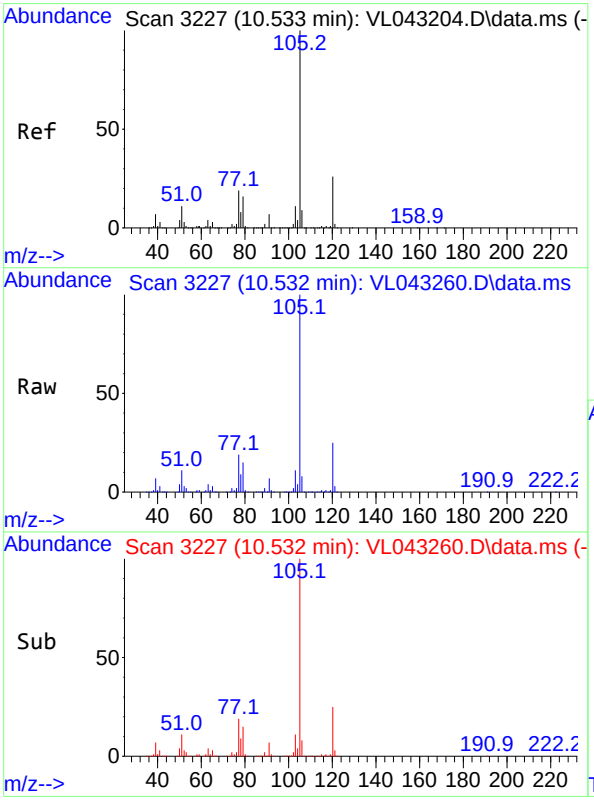
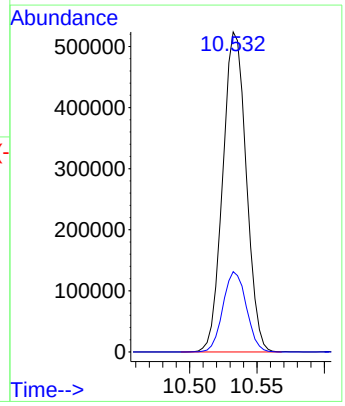
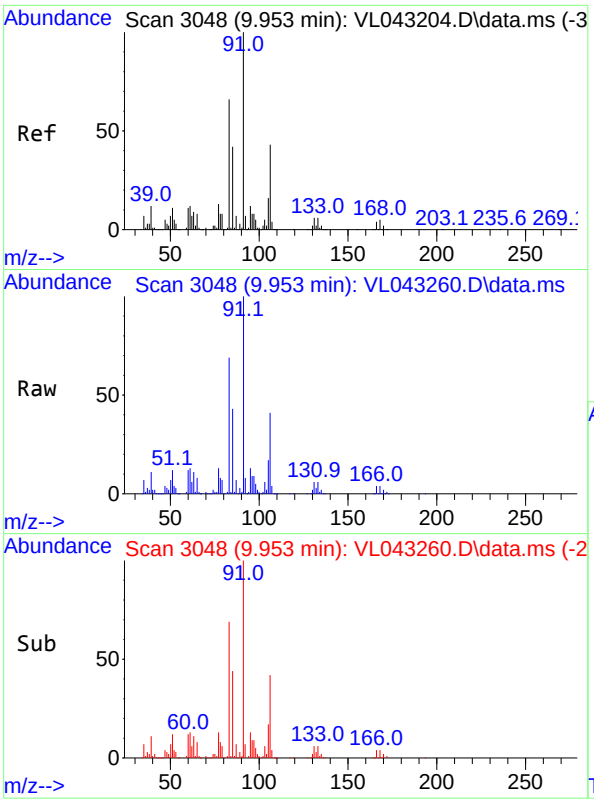


#62
Isopropylbenzene
Concen: 10.720 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:105 Resp: 634112

Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 10.371 ppbv
RT: 9.953 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 83 Resp: 21817

Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.8	14.3
85	64.8	31.9	95.9

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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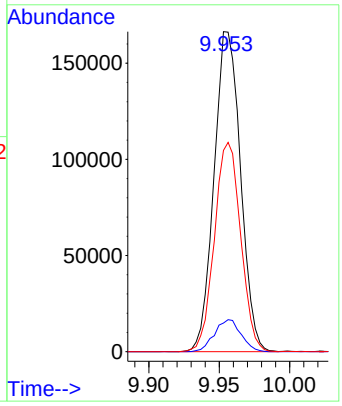
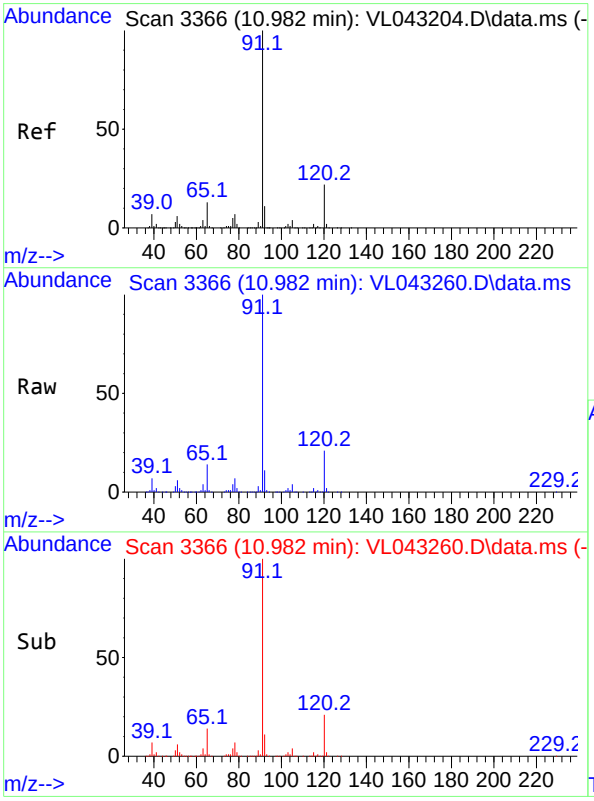
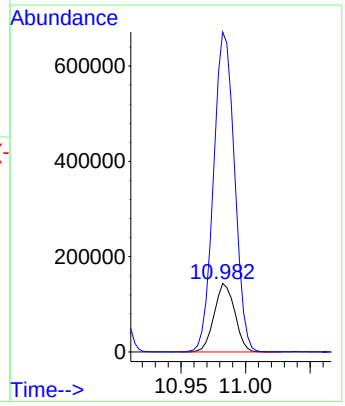


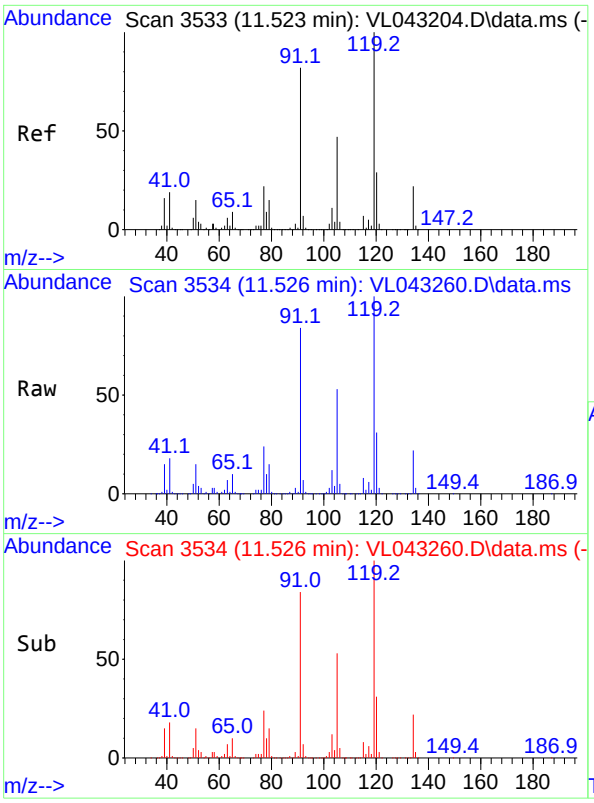


#64
n-propylbenzene
Concen: 10.480 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:120 Resp: 159286

Ion	Ratio	Lower	Upper
120	100		
91	478.3	377.1	565.7

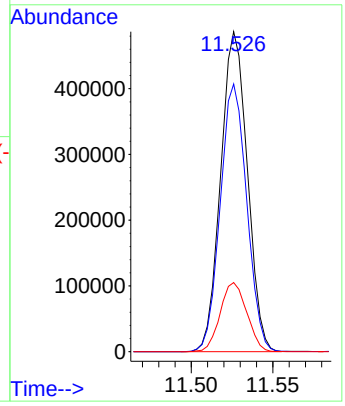




#65
tert-Butylbenzene
Concen: 10.467 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:119 Resp: 55291

Ion	Ratio	Lower	Upper
119	100		
91	83.3	65.3	97.9
134	21.5	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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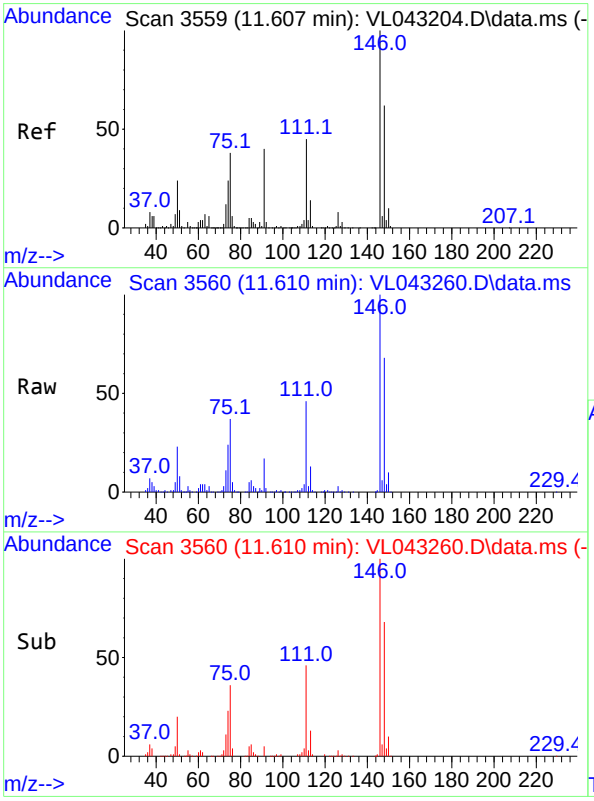
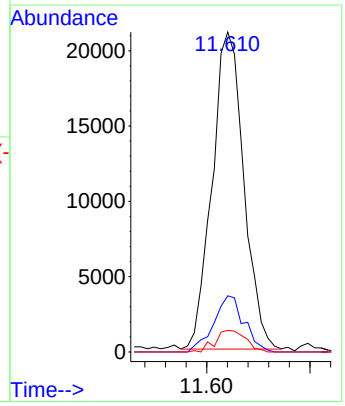
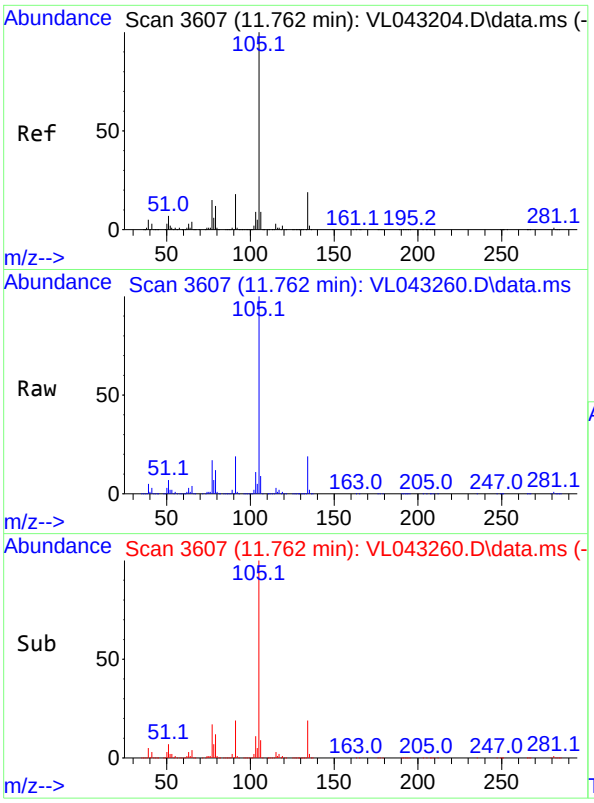


#66
Benzyl Chloride
Concen: 4.178 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 91 Resp: 22396

Ion	Ratio	Lower	Upper
91	100		
126	17.0	14.4	21.6
128	6.6	4.6	6.8

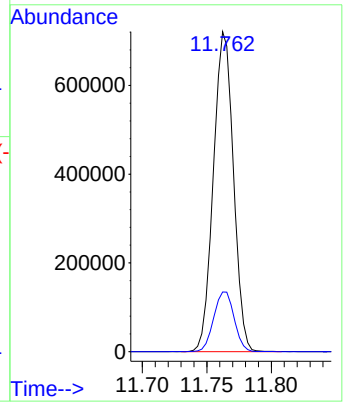




#67
sec-Butylbenzene
Concen: 10.570 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:105 Resp: 77936

Ion	Ratio	Lower	Upper
105	100		
134	19.1	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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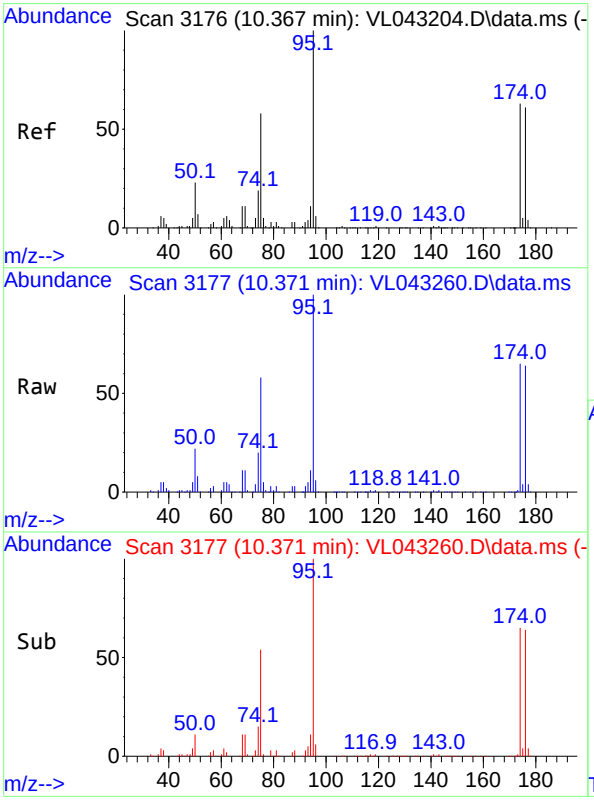
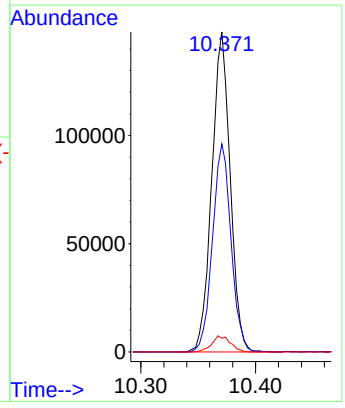
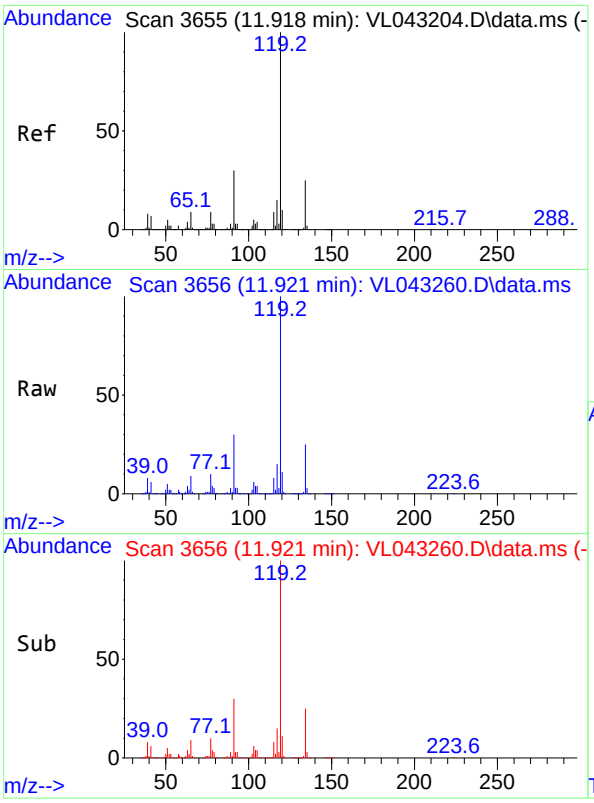


#68
1-Bromo-4-Fluorobenzene
Concen: 10.466 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 95 Resp: 164533

Ion	Ratio	Lower	Upper
95	100		
174	65.6	50.2	75.2
175	5.1	4.1	6.1

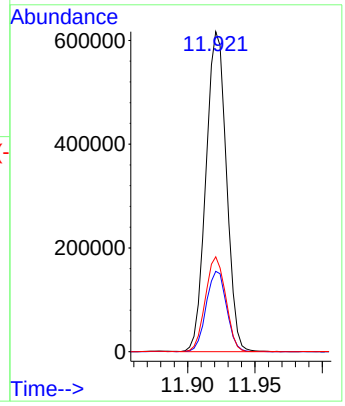




#69
p-Isopropyltoluene
Concen: 10.405 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:119 Resp: 64994

Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.2	30.2
91	29.7	23.8	35.8



Instrument :
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VL1120ABS01

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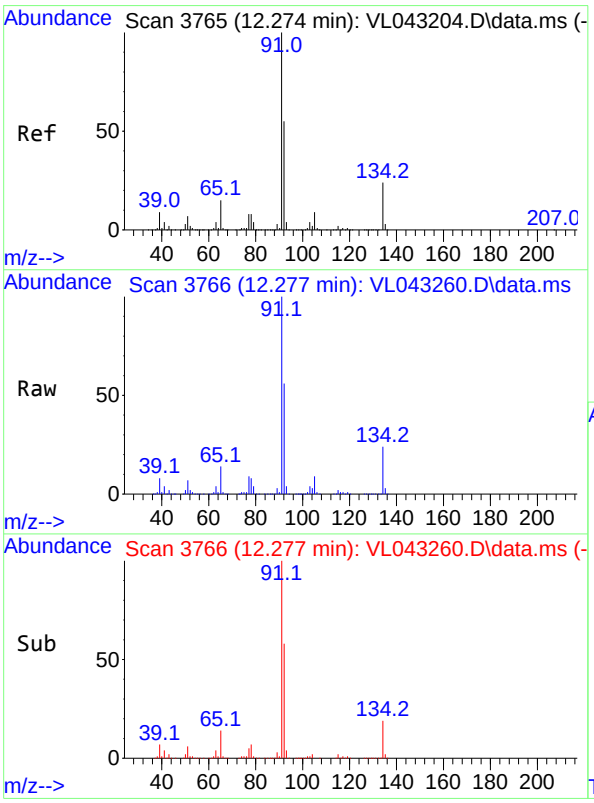
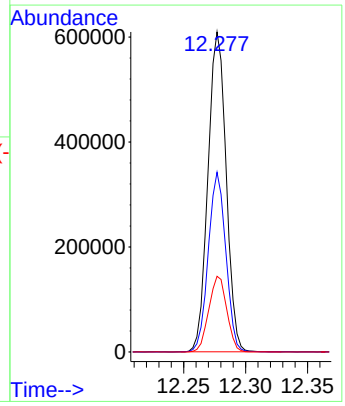
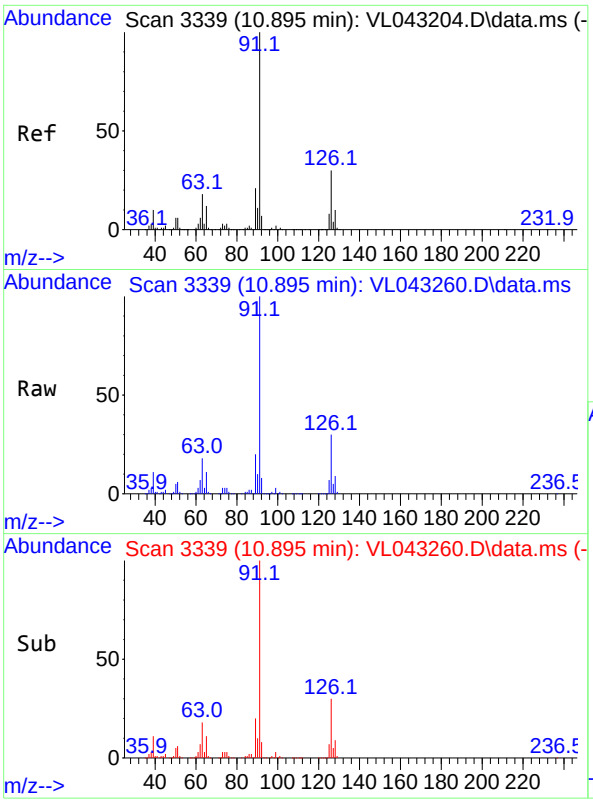


#70
n-Butylbenzene
Concen: 10.278 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 91 Resp: 622858

Ion	Ratio	Lower	Upper
91	100		
92	54.2	43.5	65.3
134	23.4	19.0	28.6

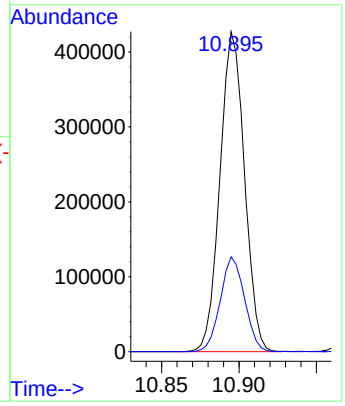




#71
2-Chlorotoluene
Concen: 10.337 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 91 Resp: 46996

Ion	Ratio	Lower	Upper
91	100		
126	29.3	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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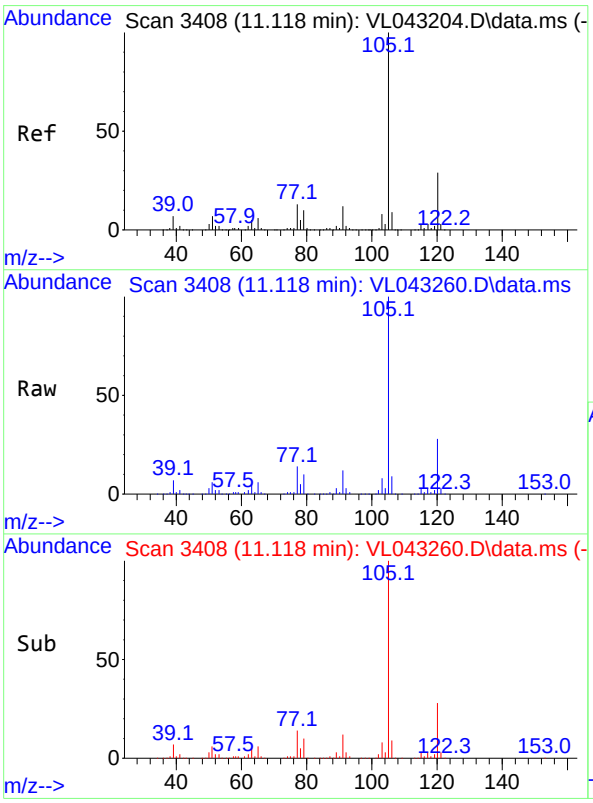
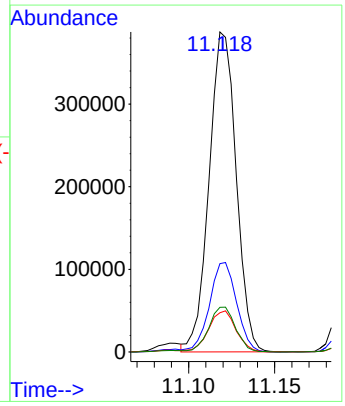
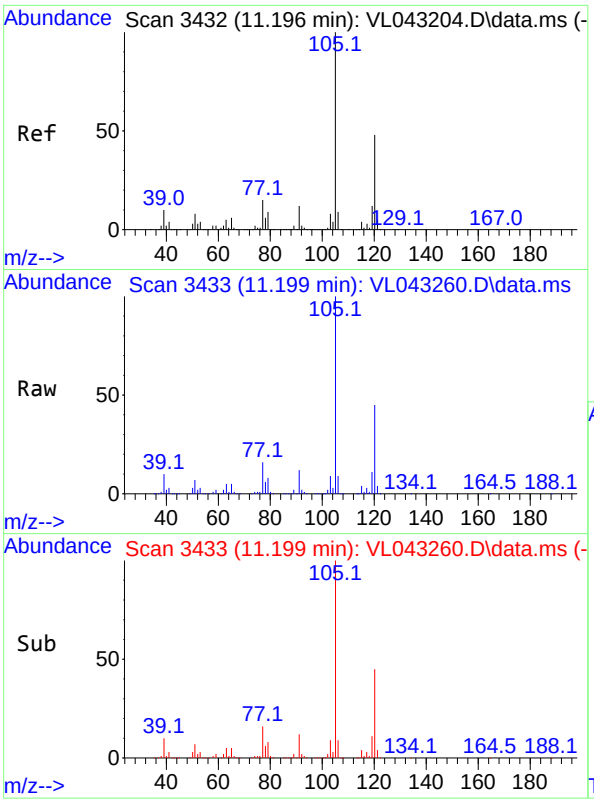


#72
4-Ethyltoluene
Concen: 10.529 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:105 Resp: 423927

Ion	Ratio	Lower	Upper
105	100		
120	28.8	23.8	35.8
91	13.6	10.3	15.5
77	14.4	11.1	16.7

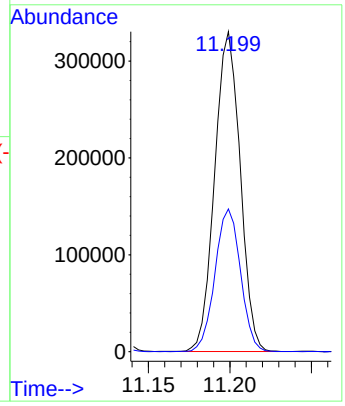




#73
1,3,5-Trimethylbenzene
Concen: 10.613 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:105 Resp: 35859

Ion	Ratio	Lower	Upper
105	100		
120	44.6	38.6	57.8



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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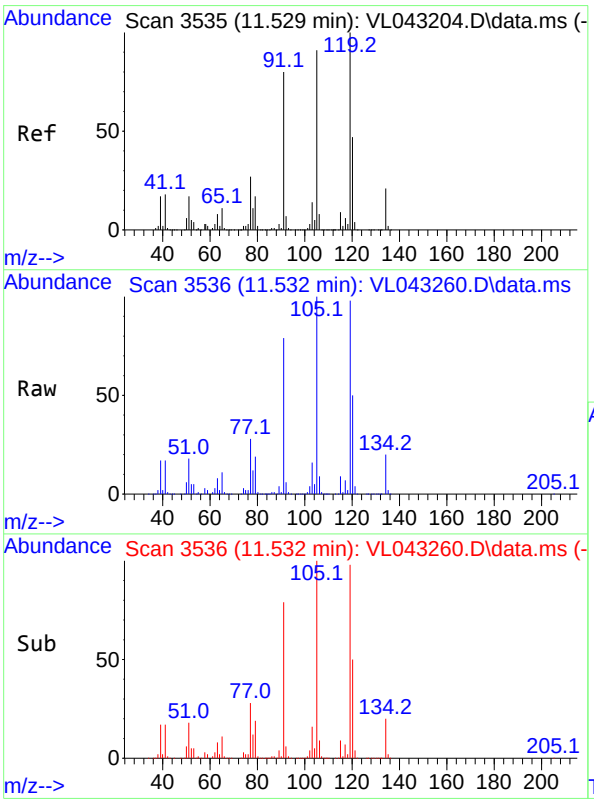
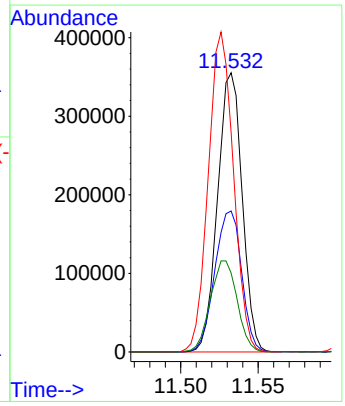
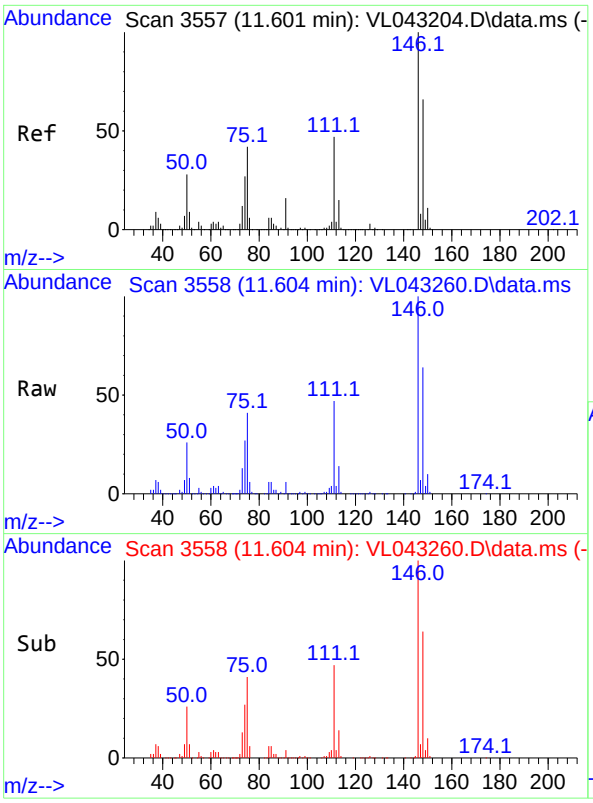


#74
1,2,4-Trimethylbenzene
Concen: 10.645 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:105 Resp: 392516

Ion	Ratio	Lower	Upper
105	100		
120	50.4	41.7	62.5
91	78.6	70.0	105.0
77	28.2	23.8	35.8

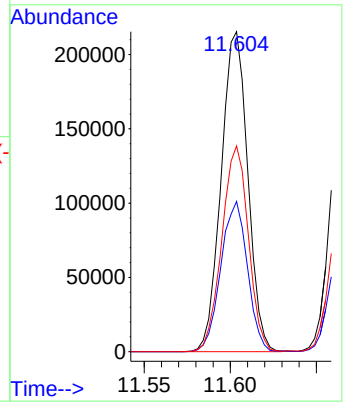




#75
1,3-Dichlorobenzene
Concen: 10.765 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:146 Resp: 23165

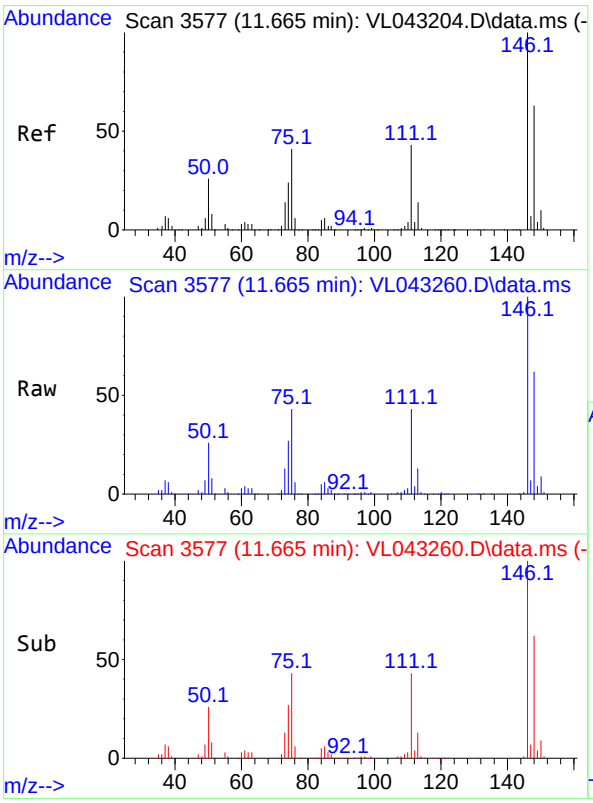
Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.4	70.3
148	64.1	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Manual Integrations
APPROVED

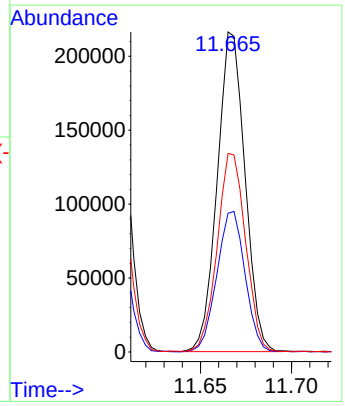
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

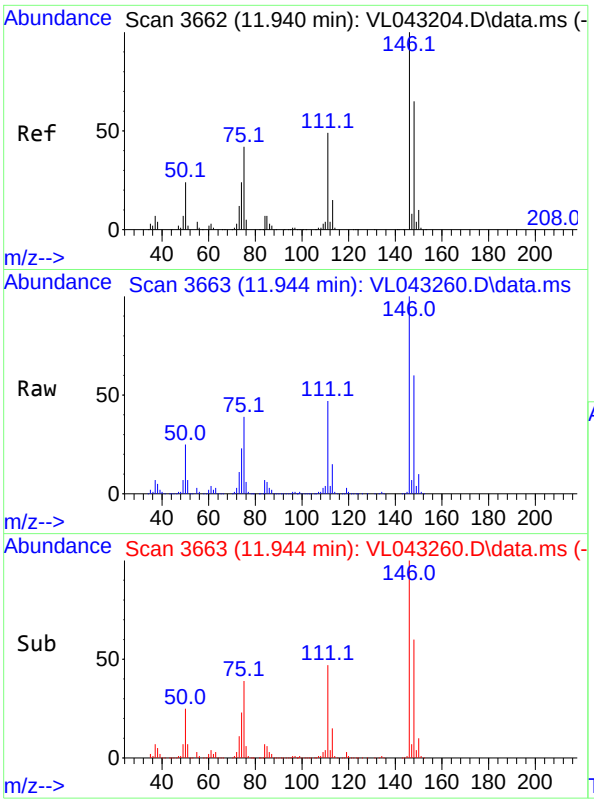


#76
1,4-Dichlorobenzene
Concen: 10.642 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:146 Resp: 229039

Ion	Ratio	Lower	Upper
146	100		
111	45.0	22.8	68.3
148	63.8	31.8	95.4

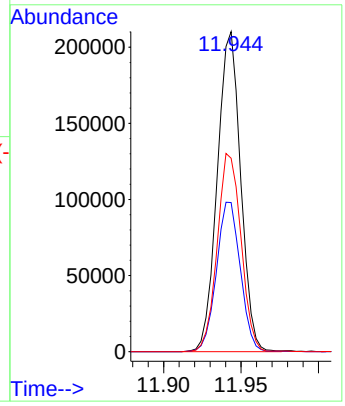




#77
1,2-Dichlorobenzene
Concen: 10.642 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:146 Resp: 22015

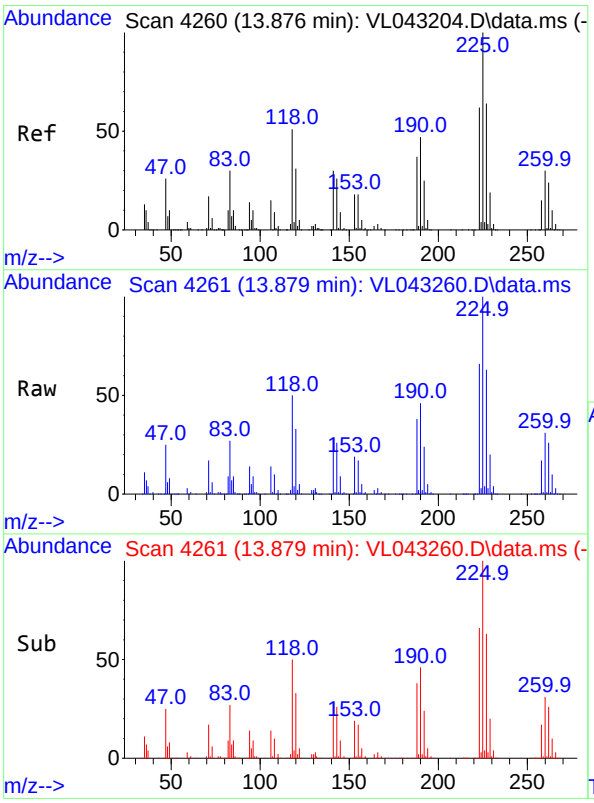
Ion	Ratio	Lower	Upper
146	100		
111	47.8	24.3	73.0
148	63.2	31.6	94.7



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Manual Integrations
APPROVED

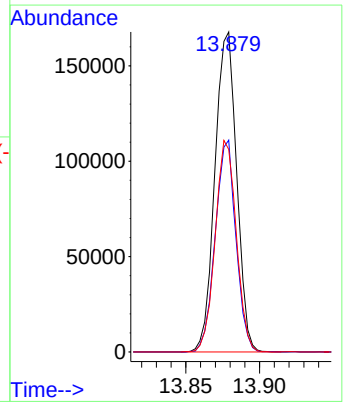
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

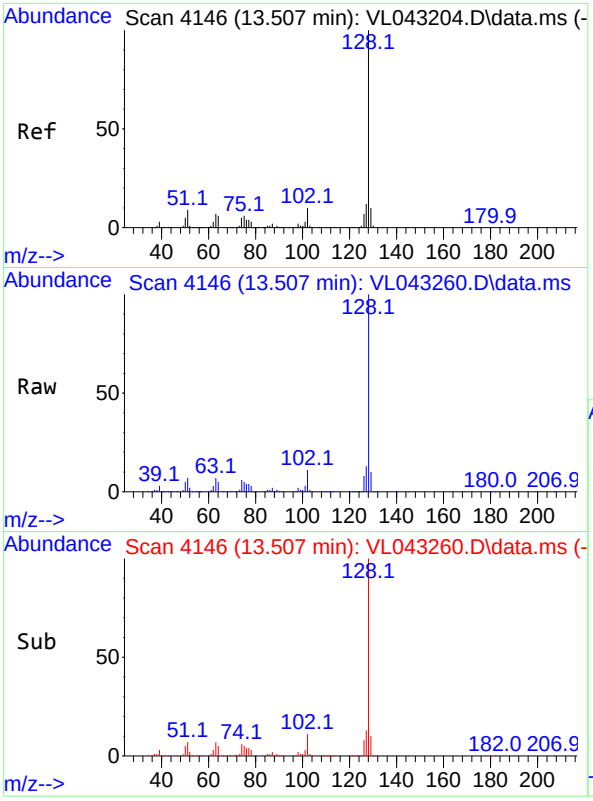


#78
Hexachloro-1,3-Butadiene
Concen: 9.961 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:225 Resp: 171979

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.4
227	64.2	51.1	76.7

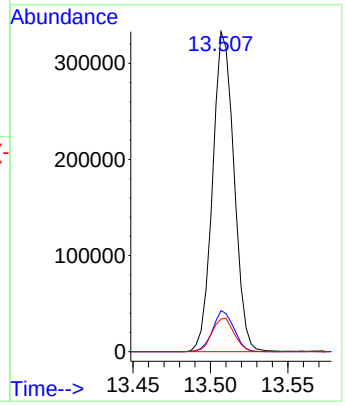




#79
Naphthalene
Concen: 9.764 ppbv
RT: 13.507 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:128 Resp: 31976

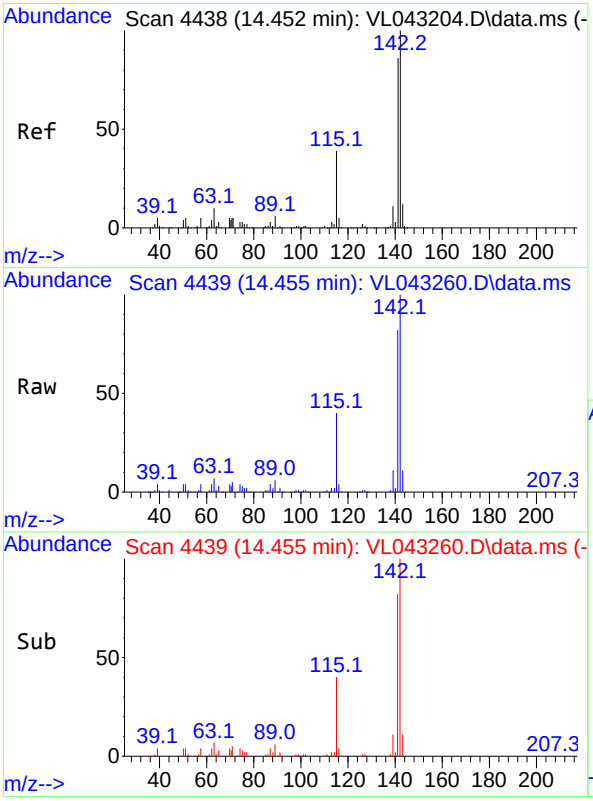
Ion	Ratio	Lower	Upper
128	100		
127	12.9	9.9	14.9
129	10.2	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Manual Integrations
APPROVED

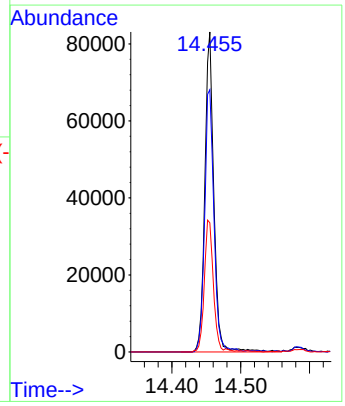
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

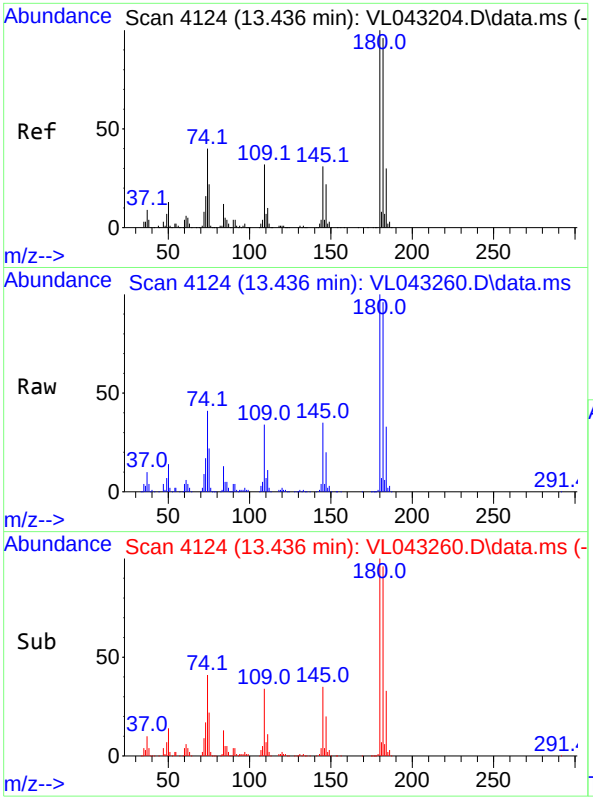


#80
Naphthalene,2-methyl-
Concen: 8.734 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:142 Resp: 75079

Ion	Ratio	Lower	Upper
142	100		
141	85.5	67.1	100.7
115	42.6	31.9	47.9

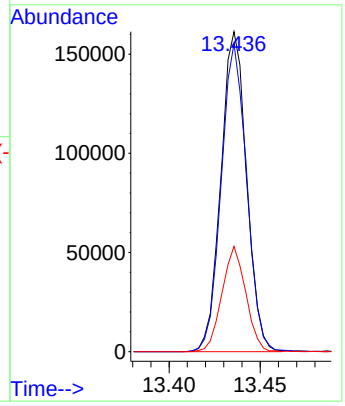




#81
1,2,4-Trichlorobenzene
Concen: 10.761 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:180 Resp: 15761

Ion	Ratio	Lower	Upper
180	100		
182	95.6	77.4	116.2
184	30.7	24.2	36.4



Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

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:	9A-SG-2DUP	SDG No.:	Q3626
Lab Sample ID:	Q3626-02DUP	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.58	2.87	J	2	1.09	4.94	11/19/25 21:01	VL111925
74-87-3	Chloromethane	0.20	0.41	U	2	0.41	2.07	11/19/25 21:01	VL111925
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/19/25 21:01	VL111925
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/19/25 21:01	VL111925
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/19/25 21:01	VL111925
109-99-9	Tetrahydrofuran	0.16	0.47	U	2	0.47	2.95	11/19/25 21:01	VL111925
75-69-4	Trichlorofluoromethane	0.61	3.43	J	2	1.91	5.62	11/19/25 21:01	VL111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/19/25 21:01	VL111925
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/19/25 21:01	VL111925
75-65-0	tert-Butyl alcohol	0.93	2.82	J	2	0.97	3.03	11/19/25 21:01	VL111925
142-82-5	Heptane	0.34	1.39	U	2	1.39	4.10	11/19/25 21:01	VL111925
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/19/25 21:01	VL111925
67-64-1	Acetone	15.9	37.8		2	0.86	2.38	11/19/25 21:01	VL111925
75-15-0	Carbon Disulfide	0.70	2.18	J	2	0.50	3.11	11/19/25 21:01	VL111925
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/19/25 21:01	VL111925
75-09-2	Methylene Chloride	8.40	29.2		2	1.60	3.47	11/19/25 21:01	VL111925
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/19/25 21:01	VL111925
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/19/25 21:01	VL111925
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/19/25 21:01	VL111925
78-93-3	2-Butanone	0.48	1.42	J	2	0.32	2.95	11/19/25 21:01	VL111925
56-23-5	Carbon Tetrachloride	0.070	0.44		2	0.31	0.38	11/19/25 21:01	VL111925
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/19/25 21:01	VL111925
67-66-3	Chloroform	3.70	18.1		2	0.93	4.88	11/19/25 21:01	VL111925
71-55-6	1,1,1-Trichloroethane	0.080	0.44		2	0.16	0.33	11/19/25 21:01	VL111925
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/19/25 21:01	VL111925
71-43-2	Benzene	0.27	0.86	J	2	0.51	3.19	11/19/25 21:01	VL111925
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/19/25 21:01	VL111925
79-01-6	Trichloroethene	0.22	1.18		2	0.27	0.32	11/19/25 21:01	VL111925
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/19/25 21:01	VL111925
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/19/25 21:01	VL111925
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	U	2	0.78	4.10	11/19/25 21:01	VL111925
108-88-3	Toluene	0.33	1.24	J	2	1.21	3.77	11/19/25 21:01	VL111925
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/19/25 21:01	VL111925
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/19/25 21:01	VL111925
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/19/25 21:01	VL111925
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/19/25 21:01	VL111925
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/19/25 21:01	VL111925
127-18-4	Tetrachloroethene	1.30	8.82		2	0.20	0.41	11/19/25 21:01	VL111925
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/19/25 21:01	VL111925
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/19/25 21:01	VL111925
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/19/25 21:01	VL111925
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/19/25 21:01	VL111925
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/19/25 21:01	VL111925
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/19/25 21:01	VL111925
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/19/25 21:01	VL111925
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/19/25 21:01	VL111925

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:	9A-SG-2DUP	SDG No.:	Q3626
Lab Sample ID:	Q3626-02DUP	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 21:01	VL111925
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/19/25 21:01	VL111925
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/19/25 21:01	VL111925
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 21:01	VL111925
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/19/25 21:01	VL111925
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/19/25 21:01	VL111925
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/19/25 21:01	VL111925
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/19/25 21:01	VL111925
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/19/25 21:01	VL111925
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/19/25 21:01	VL111925
110-54-3	Hexane	4.50	15.9		2	1.13	3.52	11/19/25 21:01	VL111925
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/19/25 21:01	VL111925
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/19/25 21:01	VL111925
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/19/25 21:01	VL111925

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.0	70 (65) - 130 (135)	100%	SPK: 10

INTERNAL STANDARDS		Area Count
74-97-5	Bromochloromethane	99700
540-36-3	1,4-Difluorobenzene	277000
3114-55-4	Chlorobenzene-d5	210000

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\VL111925\
Data File : VL043249.D
Acq On : 19 Nov 2025 21:01
Operator : SY/MD
Sample : Q3626-02DUP 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:10:42 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 :
9A-SG-2DUP

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	99705	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	276826	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	209824	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	154207	10.026	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	4070	0.289	ppbv		91
3) Chlorodifluoromethane	1.476	51	1488m	0.108	ppbv		
9) Propene	1.486	41	4782	0.814	ppbv	#	1
10) Heptane	4.956	43	1991m	0.114	ppbv		
11) Trichlorofluoromethane	1.878	101	4186	0.307	ppbv		97
13) Ethanol	1.719	45	13138	6.362	ppbv		99
15) Acetone	1.832	43	110125	7.950	ppbv		98
17) tert-Butyl alcohol	2.040	59	8475	0.466	ppbv		97
19) Isopropyl Alcohol	1.884	45	45218	5.777	ppbv	#	66
20) Methylene Chloride	2.059	84	18957	4.188	ppbv		91
26) Hexane	2.823	57	29288	2.236	ppbv	#	42
27) Carbon Disulfide	2.146	76	4694	0.351	ppbv	#	1
29) Chloroform	2.845	83	34264	1.840	ppbv		98
32) 1,1,1-Trichloroethane	3.373	97	805m	0.041	ppbv		
34) 2-Butanone	2.557	43	4730	0.242	ppbv		99
35) Carbon Tetrachloride	3.752	117	688m	0.033	ppbv		
36) Benzene	3.645	78	3642	0.137	ppbv		95
38) Trichloroethene	4.538	130	1132m	0.109	ppbv		
52) Tetrachloroethene	8.222	164	6604m	0.670	ppbv		
53) Toluene	6.917	91	5159m	0.164	ppbv		

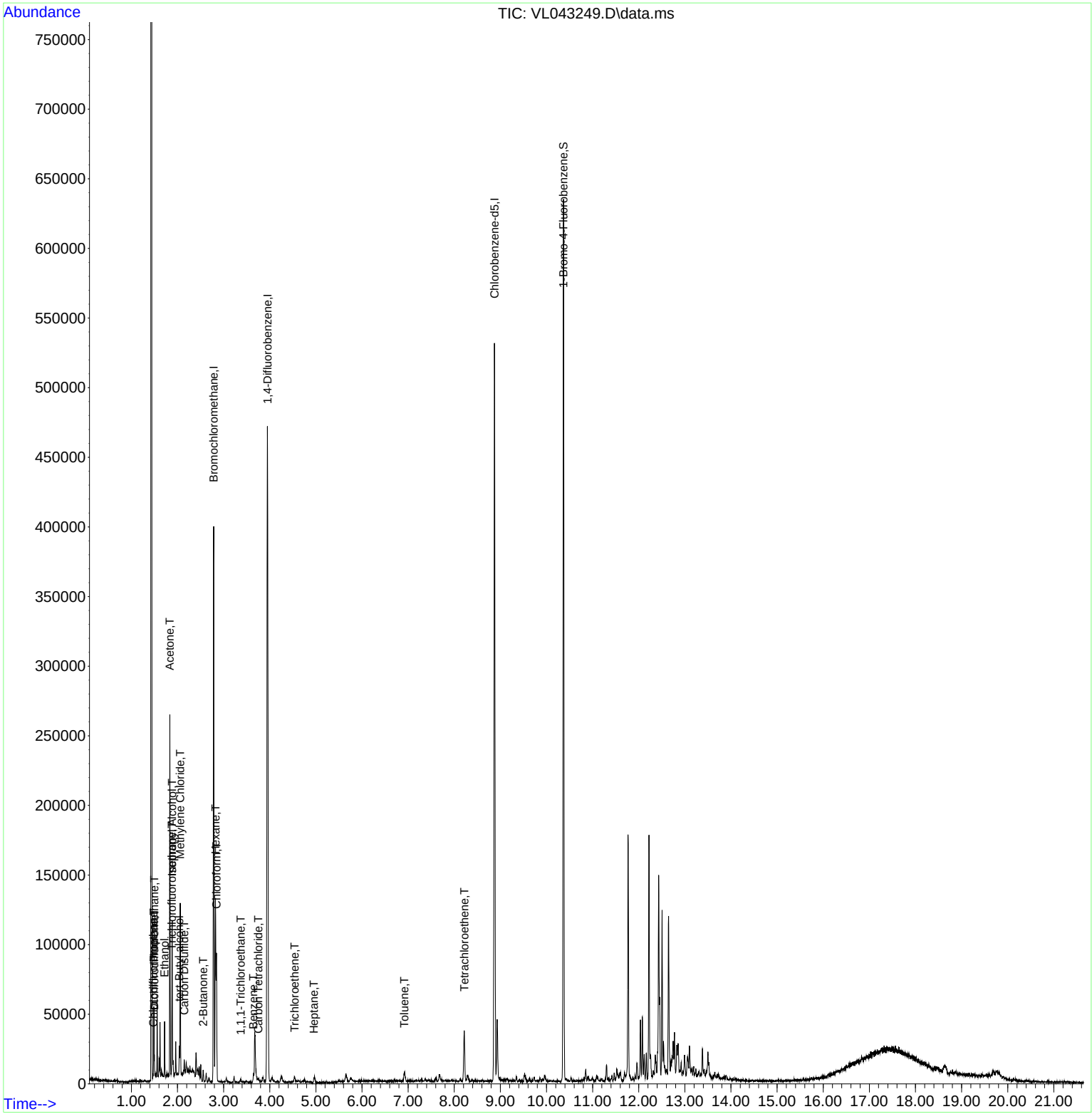
(#) = qualifier out of range (m) = manual integration (+) = signals summed

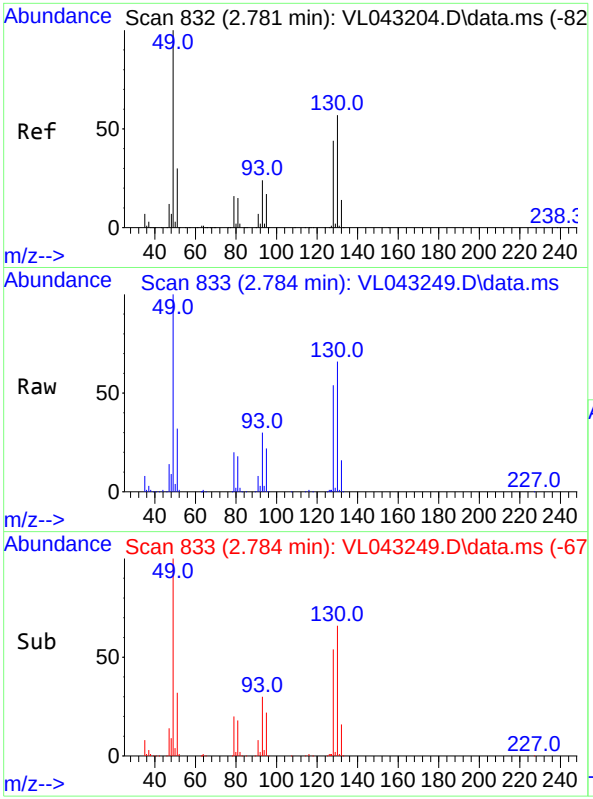
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043249.D
Acq On : 19 Nov 2025 21:01
Operator : SY/MD
Sample : Q3626-02DUP 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 20 00:10:42 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 :
9A-SG-2DUP

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

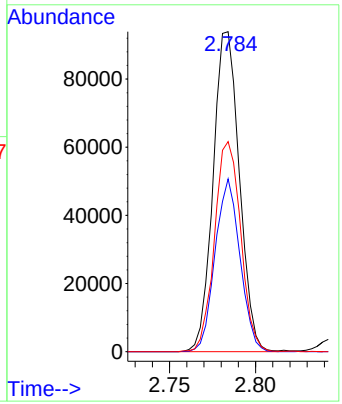




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 49 Resp: 9970

Ion	Ratio	Lower	Upper
49	100		
128	51.2	23.0	69.0
130	65.5	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

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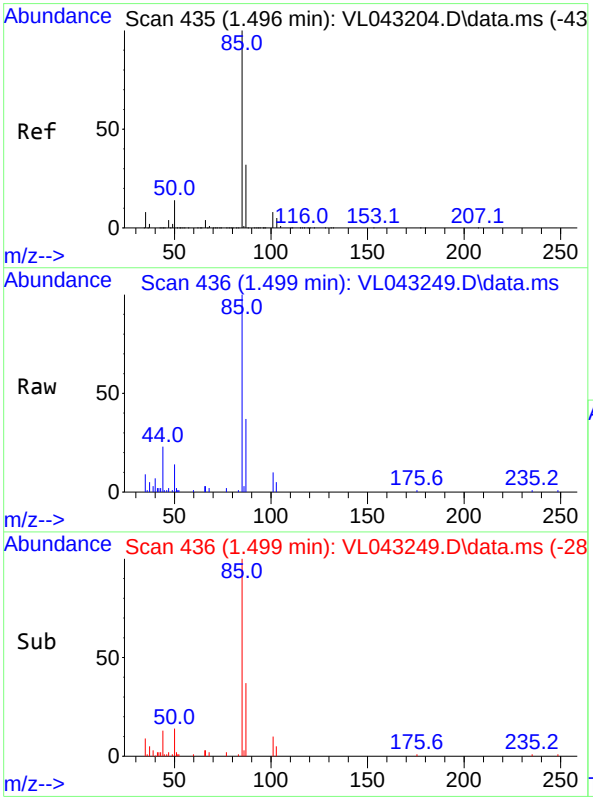
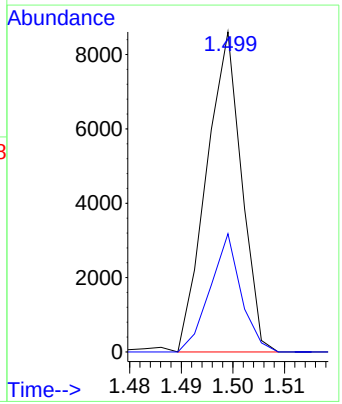
Supervised By :Mahesh Dadoda 11/21/2025

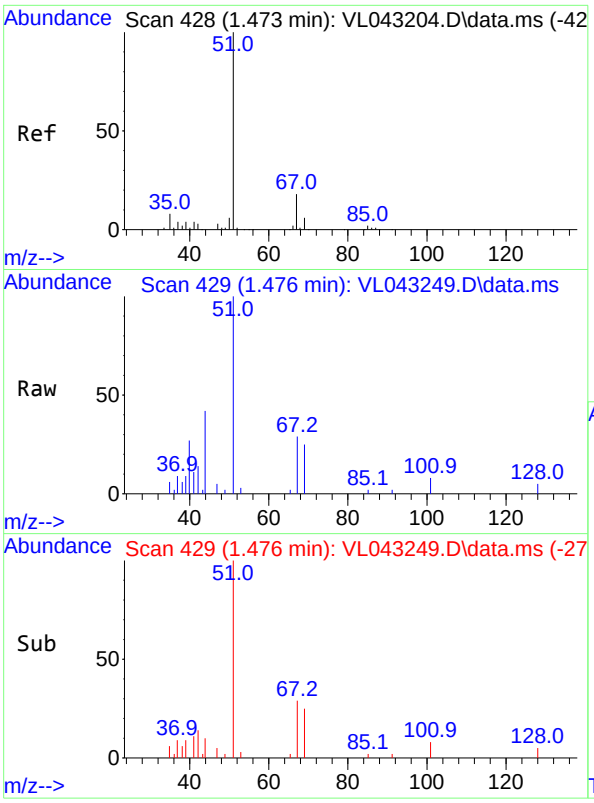


#2
Dichlorodifluoromethane
Concen: 0.289 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 85 Resp: 4070

Ion	Ratio	Lower	Upper
85	100		
87	37.0	25.4	38.2

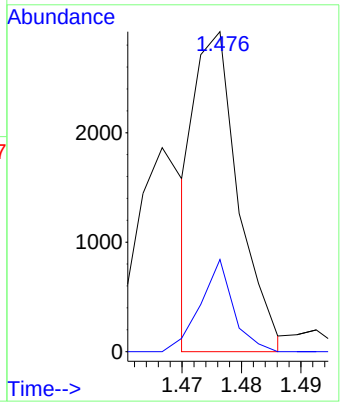




#3
Chlorodifluoromethane
Concen: 0.108 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 51 Resp: 148

Ion	Ratio	Lower	Upper
51	100		
67	21.9	14.9	22.3



Instrument :
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ClientSampleId :
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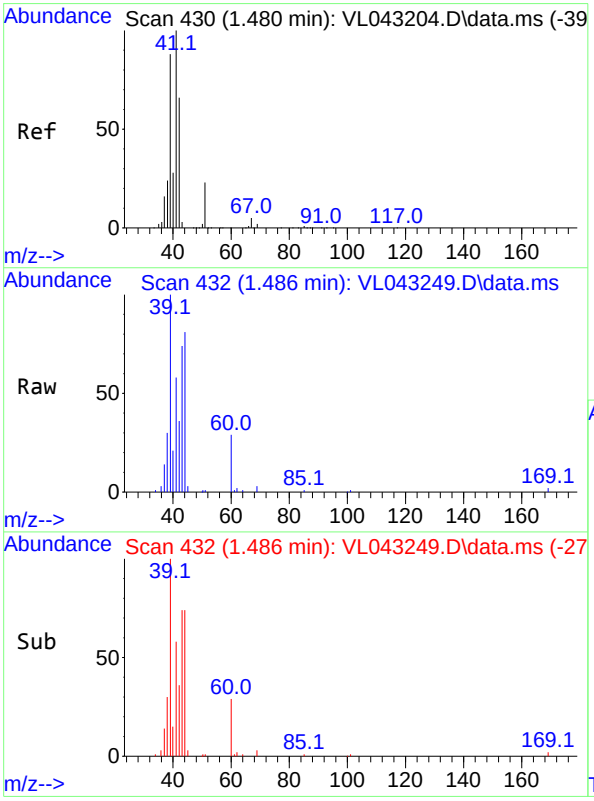
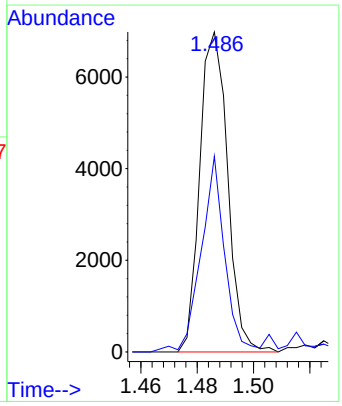
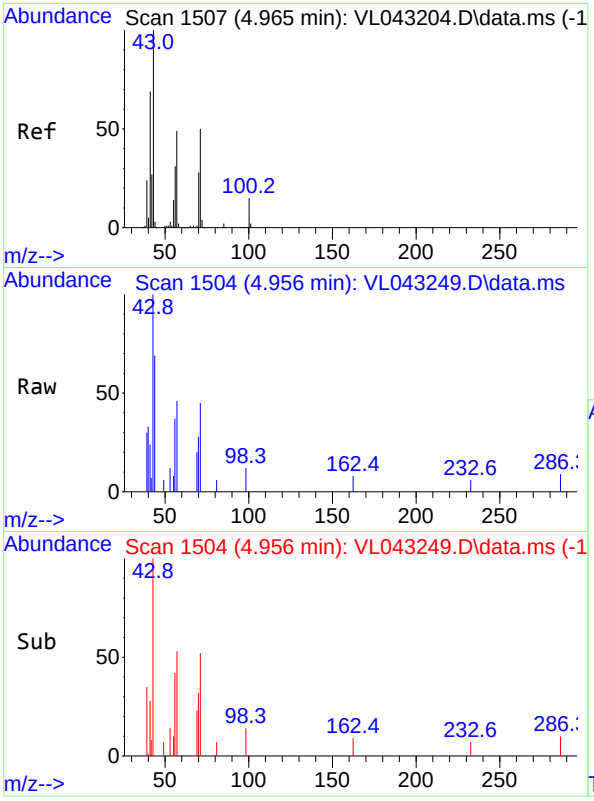


#9
Propene
Concen: 0.814 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 41 Resp: 4782

Ion	Ratio	Lower	Upper
41	100		
42	53.5	3.7	5.5#

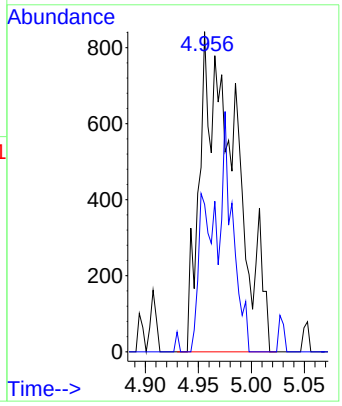




#10
Heptane
Concen: 0.114 ppbv m
RT: 4.956 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 43 Resp: 199

Ion	Ratio	Lower	Upper
43	100		
57	45.5	39.7	59.5



Instrument :
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ClientSampleId :
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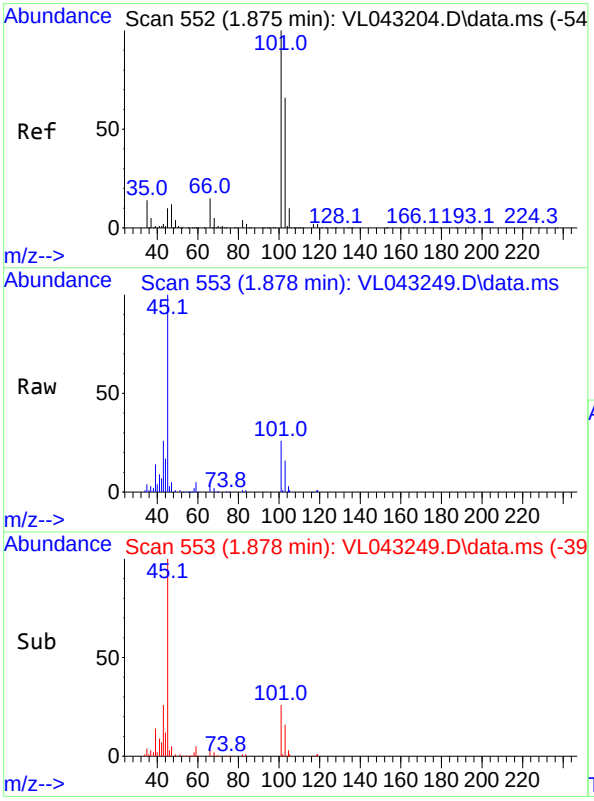
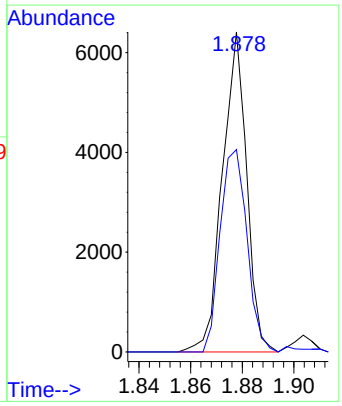
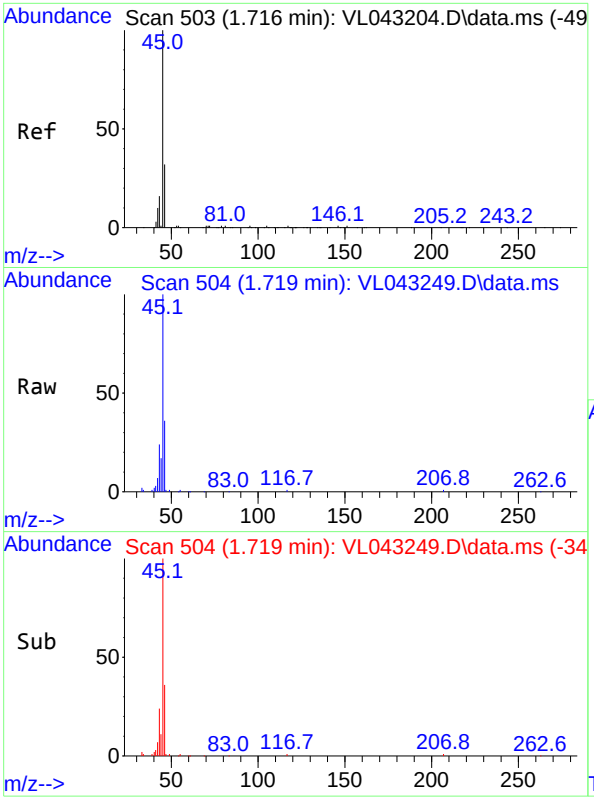


#11
Trichlorofluoromethane
Concen: 0.307 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion:101 Resp: 4186

Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.6	79.0

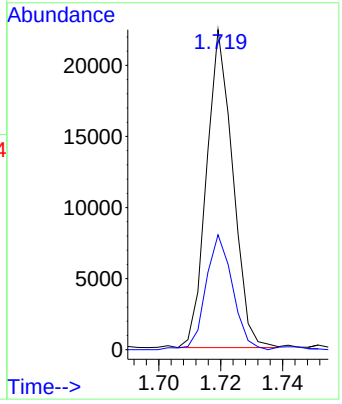




#13
Ethanol
Concen: 6.362 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 45 Resp: 1313

Ion	Ratio	Lower	Upper
45	100		
46	37.7	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
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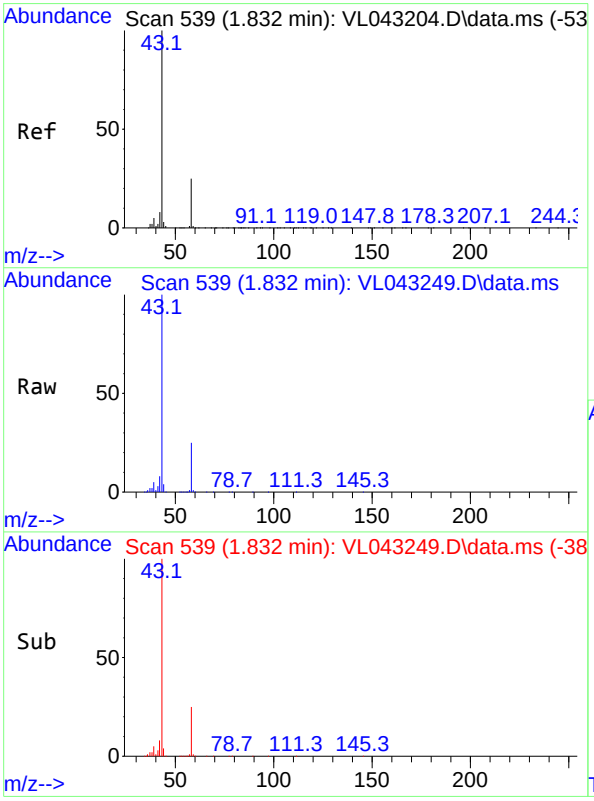
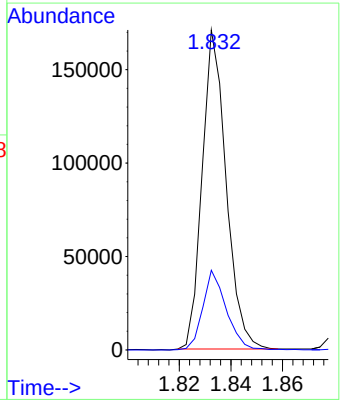
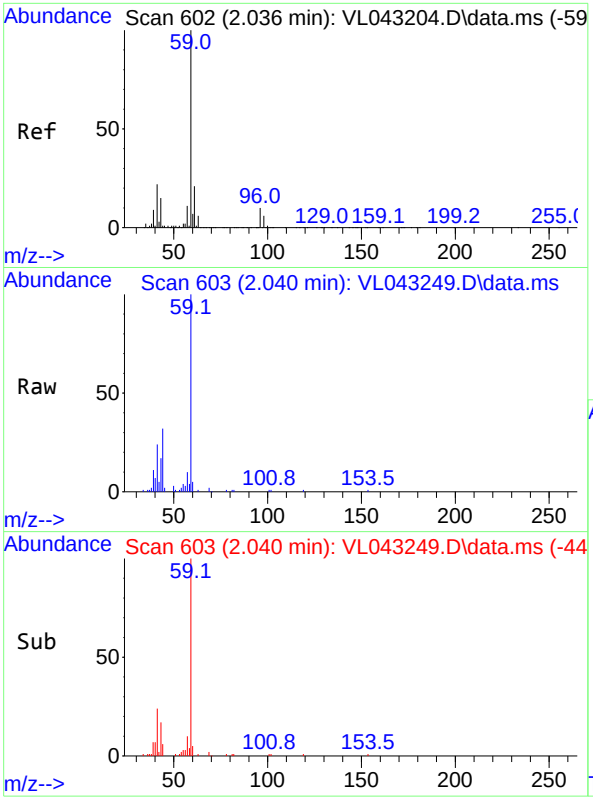


#15
Acetone
Concen: 7.950 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 43 Resp: 110125

Ion	Ratio	Lower	Upper
43	100		
58	24.6	20.7	31.1

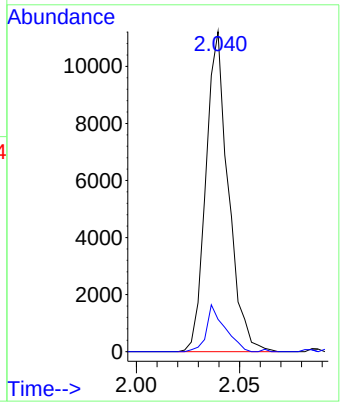




#17
tert-Butyl alcohol
Concen: 0.466 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 59 Resp: 847

Ion	Ratio	Lower	Upper
59	100		
57	12.2	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

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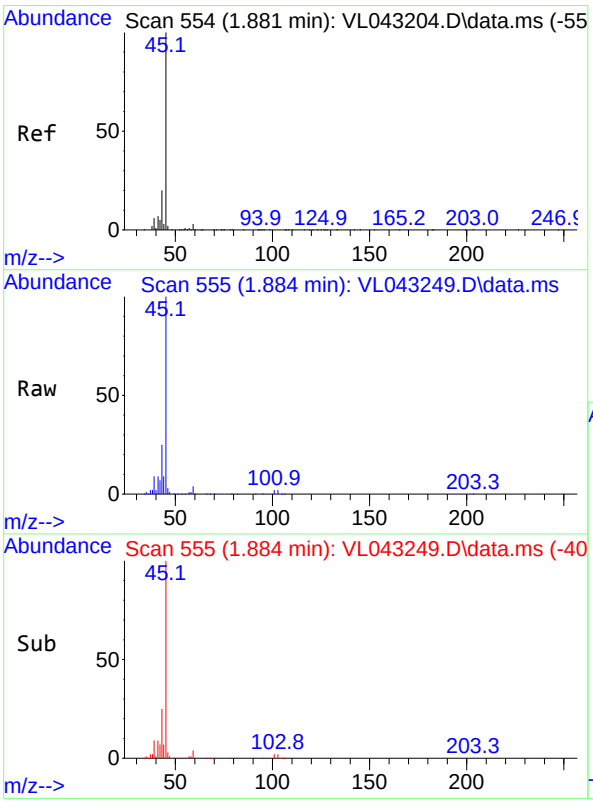
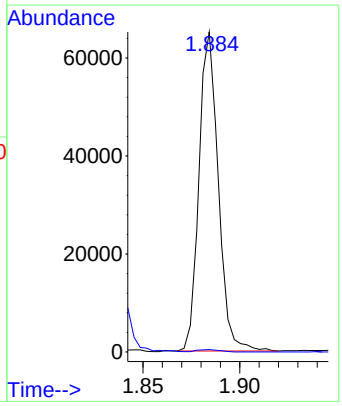
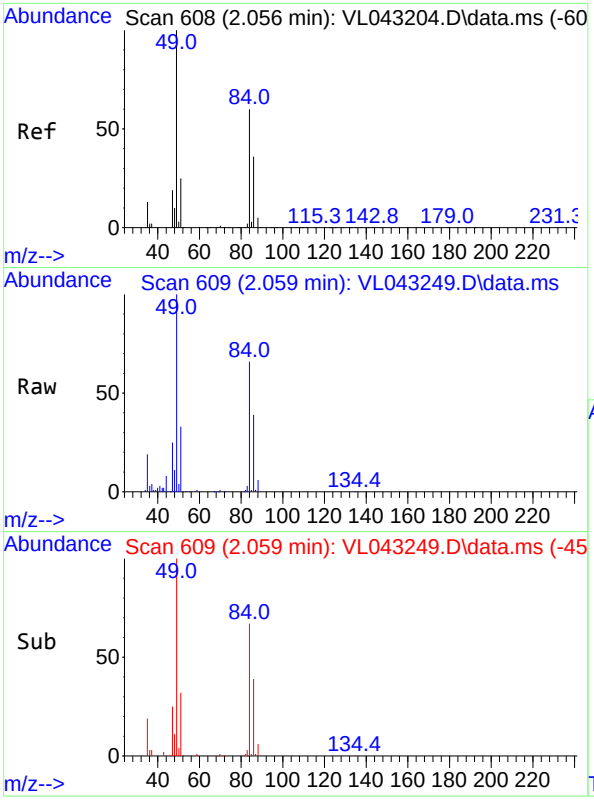


#19
Isopropyl Alcohol
Concen: 5.777 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 45 Resp: 45218

Ion	Ratio	Lower	Upper
45	100		
58	60.0	31.3	46.9#

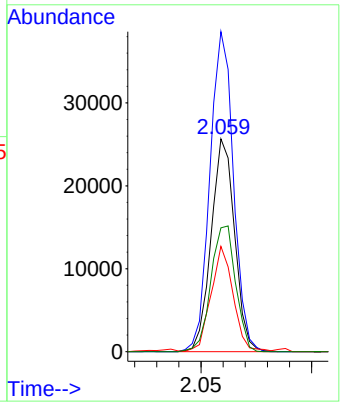




#20
Methylene Chloride
Concen: 4.188 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 84 Resp: 1895

Ion	Ratio	Lower	Upper
84	100		
49	150.4	132.9	199.3
51	49.1	34.8	52.2
86	58.2	48.2	72.2



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

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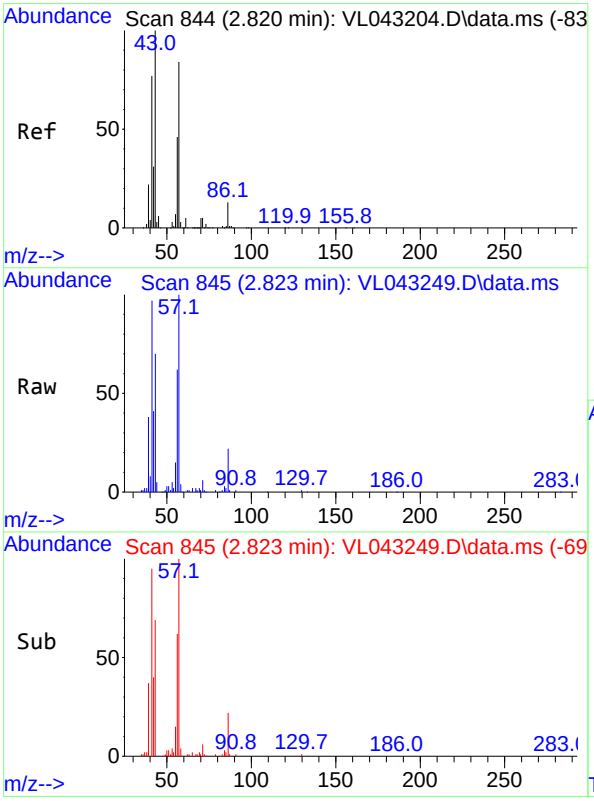
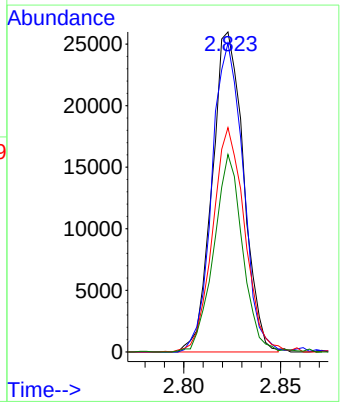
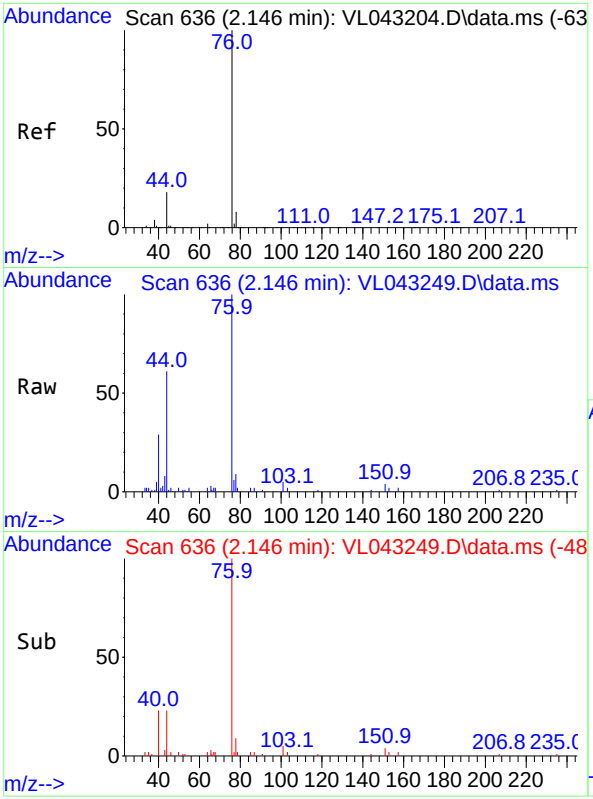


#26
Hexane
Concen: 2.236 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 57 Resp: 29288

Ion	Ratio	Lower	Upper
57	100		
41	96.8	74.6	111.8
43	71.9	179.0	268.4#
56	57.0	42.3	63.5

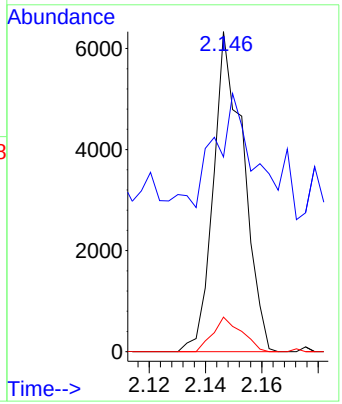




#27
Carbon Disulfide
Concen: 0.351 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 76 Resp: 469

Ion	Ratio	Lower	Upper
76	100		
44	132.7	16.1	24.1
78	10.5	9.6	14.4



Instrument :
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ClientSampleId :
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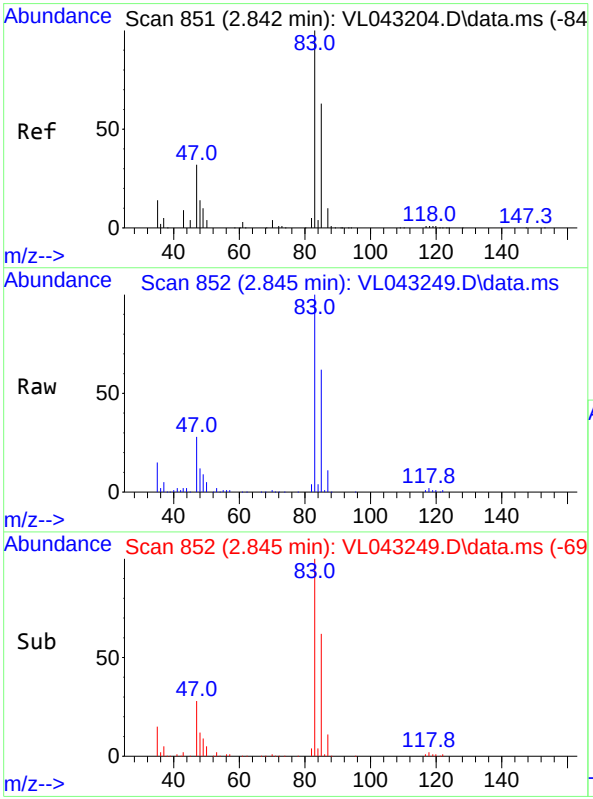
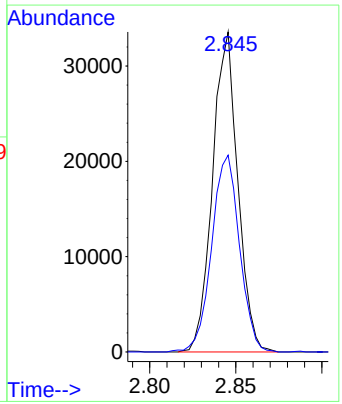
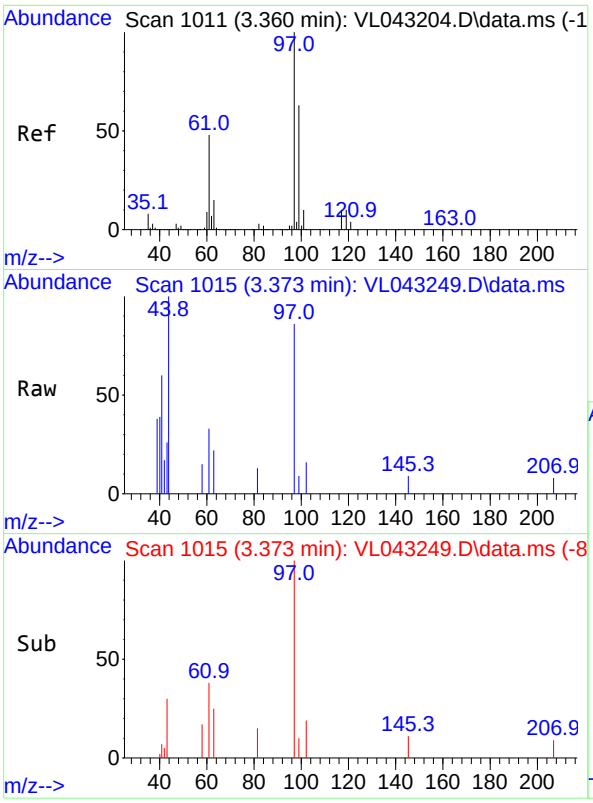


#29
Chloroform
Concen: 1.840 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 83 Resp: 34264

Ion	Ratio	Lower	Upper
83	100		
85	61.5	50.5	75.7

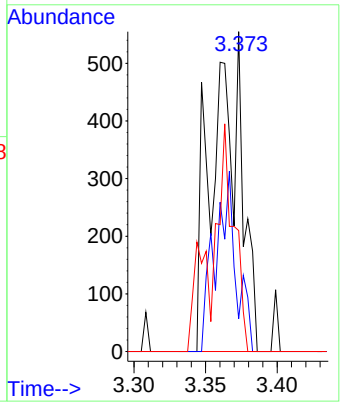




#32
1,1,1-Trichloroethane
Concen: 0.041 ppbv m
RT: 3.373 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 97 Resp: 80

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.3	75.5
61	53.3	38.9	58.3



Instrument :
MSVOA_L
ClientSampleId :
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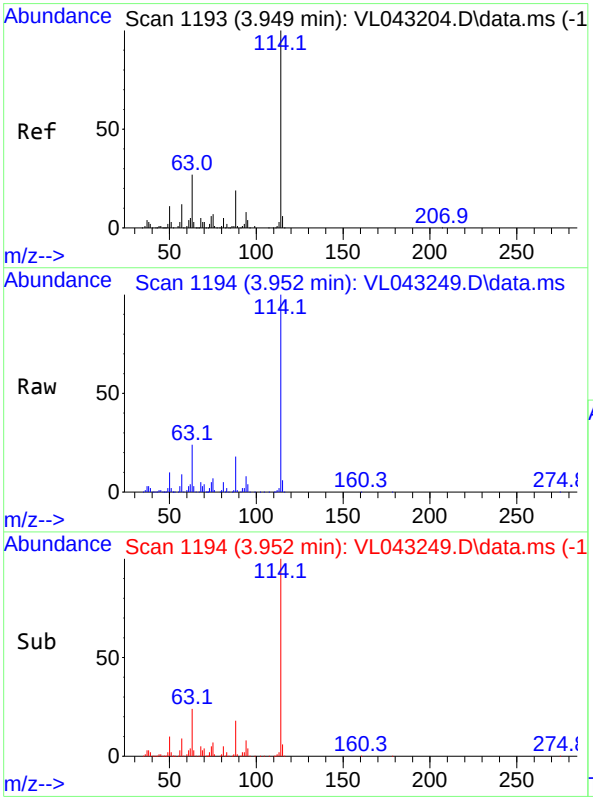
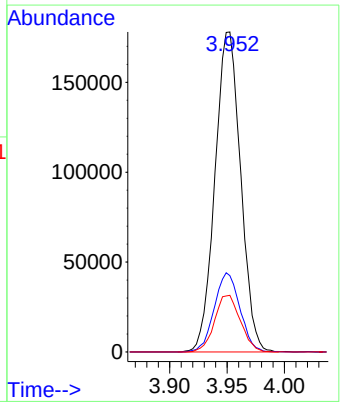
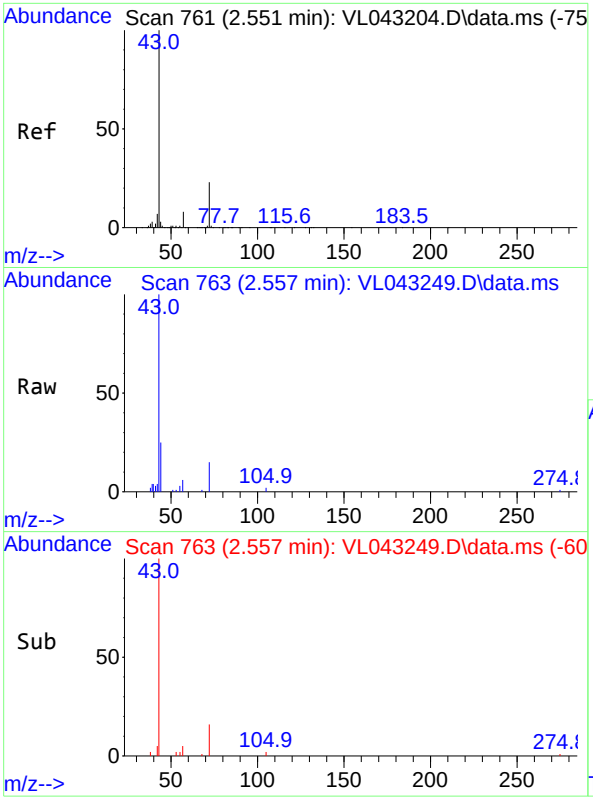


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion:114 Resp: 276826

Ion	Ratio	Lower	Upper
114	100		
63	24.8	21.0	31.6
88	17.9	14.9	22.3

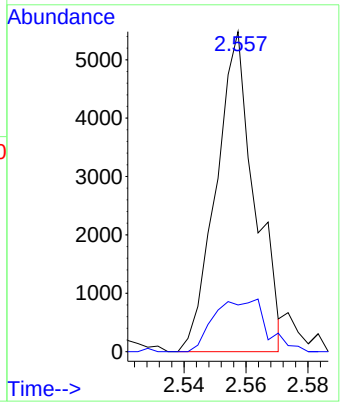




#34
2-Butanone
Concen: 0.242 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 43 Resp: 473

Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.1	27.1



Instrument :
MSVOA_L
ClientSampleId :
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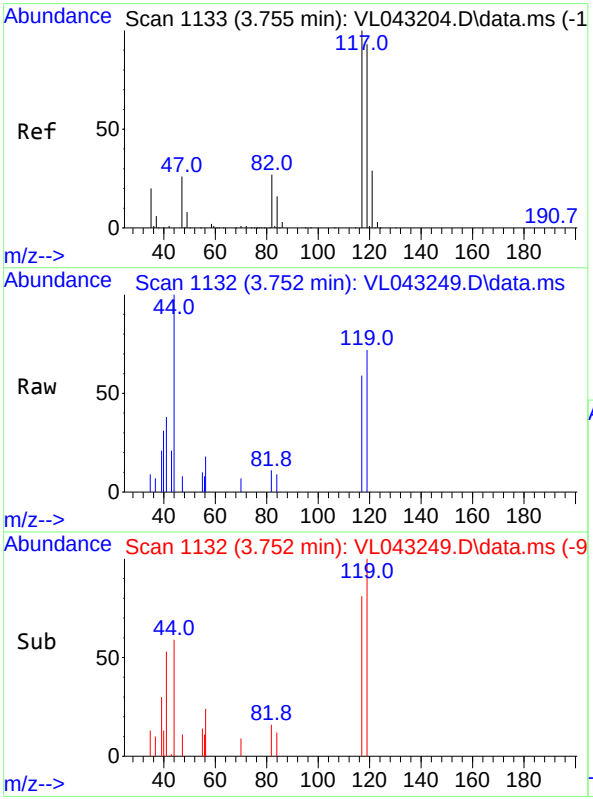
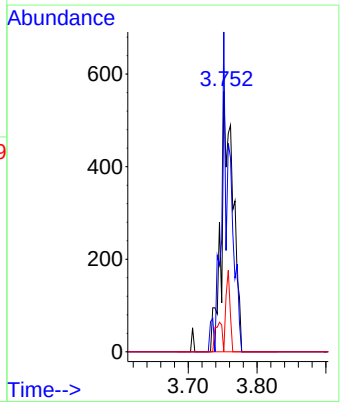
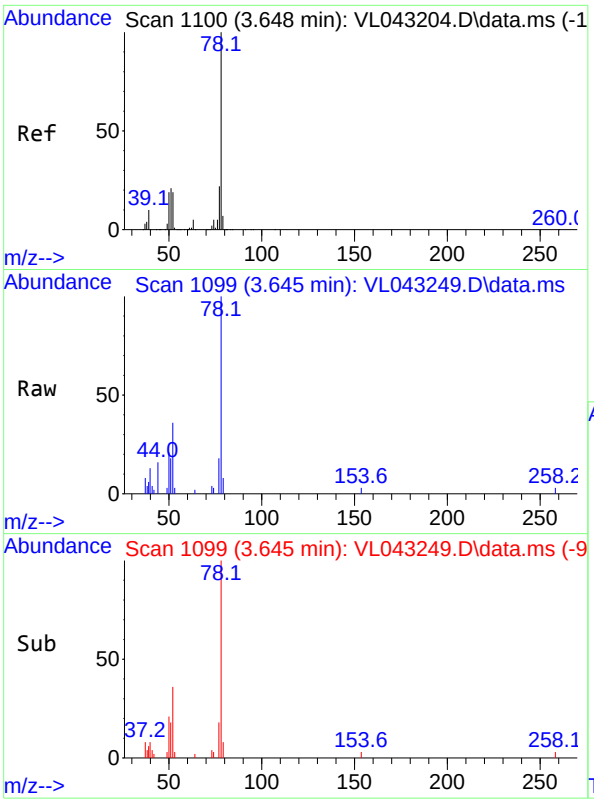


#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.752 min Scan# 1132
Delta R.T. -0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion:117 Resp: 688

Ion	Ratio	Lower	Upper
117	100		
119	122.7	74.6	112.0#
121	0.0	23.2	34.8#

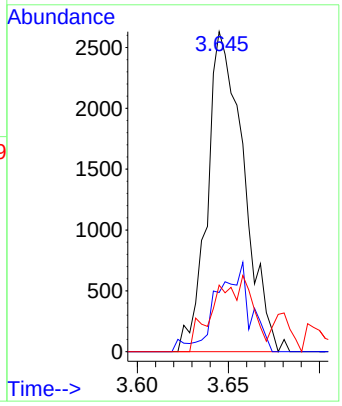




#36
Benzene
Concen: 0.137 ppbv
RT: 3.645 min Scan# 1(
Delta R.T. -0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 78 Resp: 364

Ion	Ratio	Lower	Upper
78	100		
77	18.5	17.5	26.3
50	20.8	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Manual Integrations
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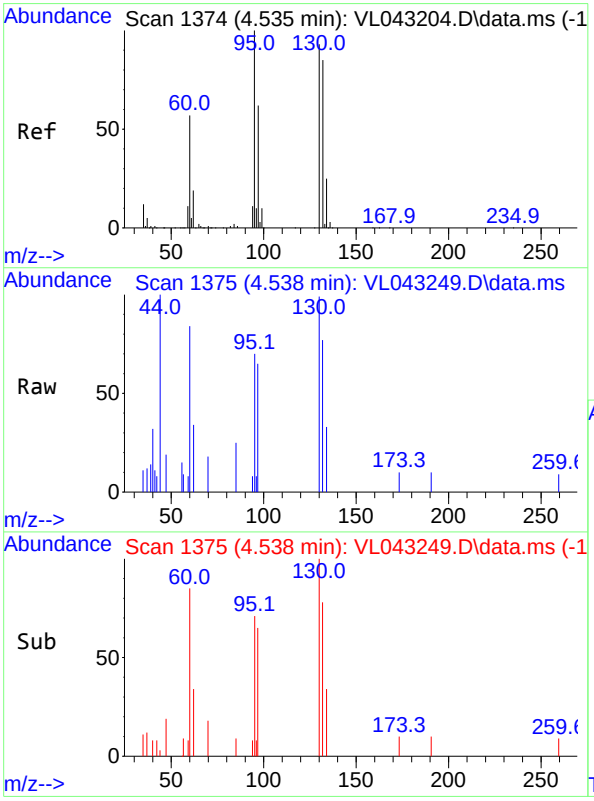
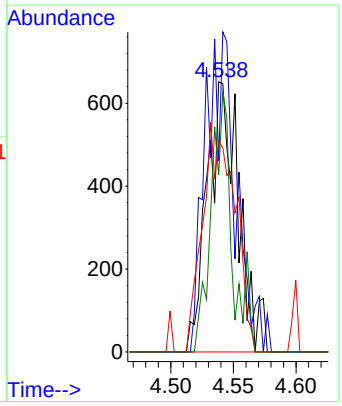
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

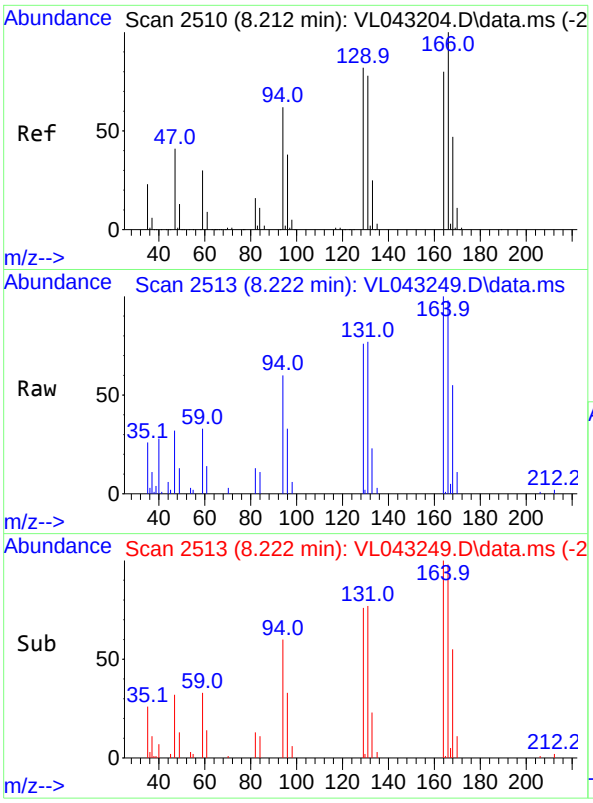


#38
Trichloroethene
Concen: 0.109 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion:130 Resp: 1132

Ion	Ratio	Lower	Upper
130	100		
95	70.7	85.7	128.5#
132	77.9	73.4	110.0
97	65.5	52.7	79.1

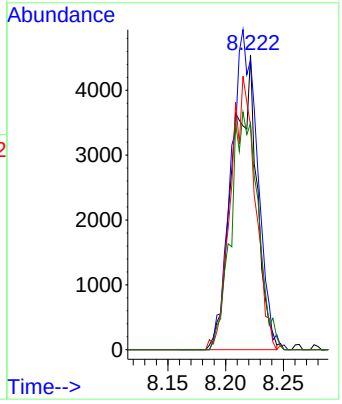




#52
Tetrachloroethene
Concen: 0.670 ppbv m
RT: 8.222 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion:164 Resp: 660

Ion	Ratio	Lower	Upper
164	100		
166	98.3	99.4	149.2#
129	76.1	81.8	122.8#
131	76.8	77.4	116.2#



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Manual Integrations
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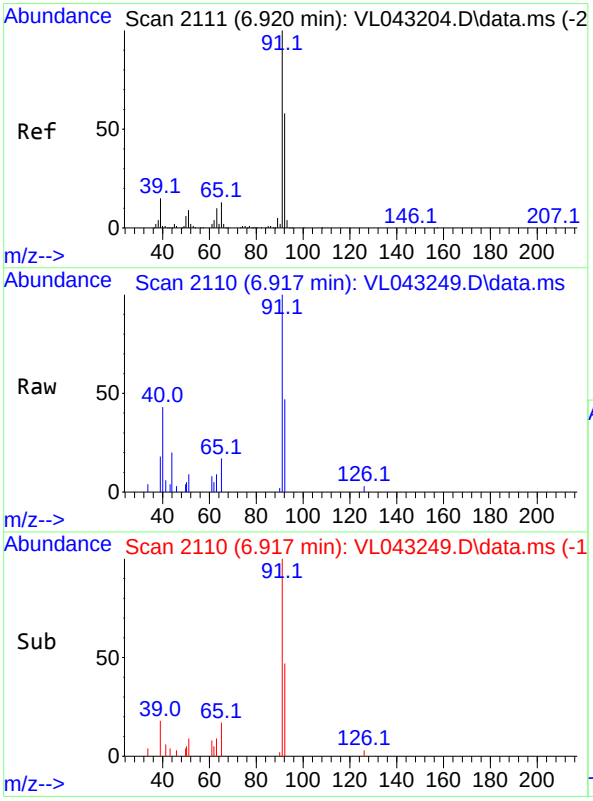
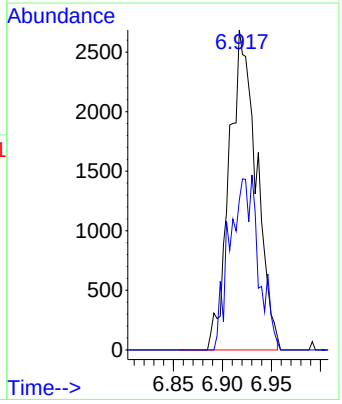
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

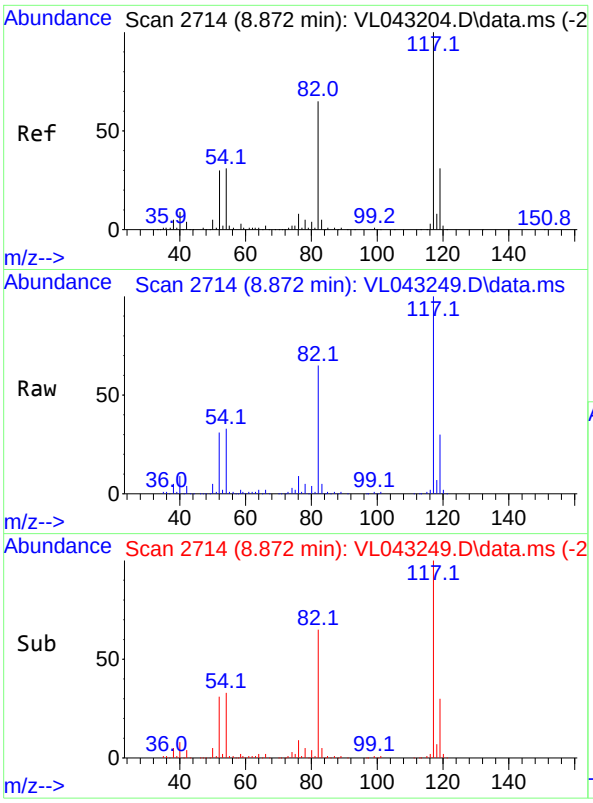


#53
Toluene
Concen: 0.164 ppbv m
RT: 6.917 min Scan# 2110
Delta R.T. -0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 91 Resp: 5159

Ion	Ratio	Lower	Upper
91	100		
92	57.5	47.4	71.0

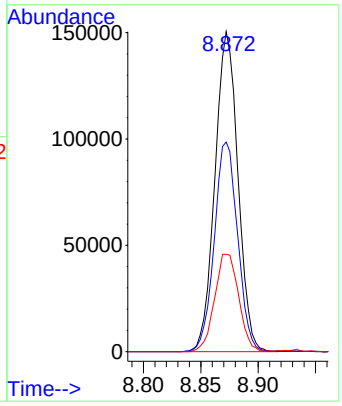




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion:117 Resp: 20982

Ion	Ratio	Lower	Upper
117	100		
82	66.7	56.1	84.1
119	31.9	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Manual Integrations
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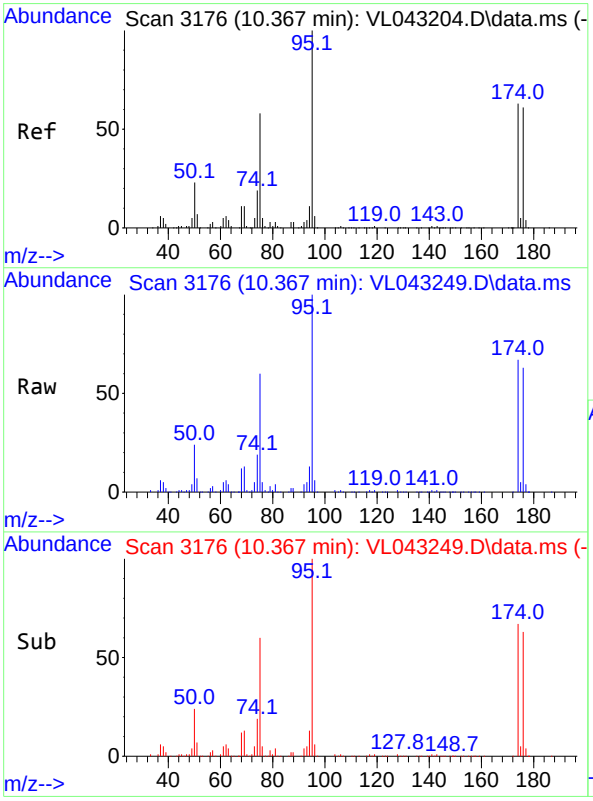
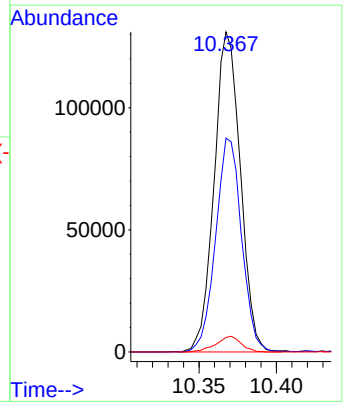
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.026 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 95 Resp: 154207

Ion	Ratio	Lower	Upper
95	100		
174	66.2	50.2	75.2
175	4.7	4.1	6.1



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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:	VL111925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL043232.D	1,1,2-Trichloroethane	sam	11/21/2025 11:21:53 AM	MMDadoda	11/21/2025 12:23:27 PM	Peak Integrated by Software
VSTDCCC010	VL043232.D	m/p-Xylene	sam	11/21/2025 11:21:53 AM	MMDadoda	11/21/2025 12:23:27 PM	Peak Integrated by Software
VSTDCCC010	VL043232.D	Propene	sam	11/21/2025 11:21:53 AM	MMDadoda	11/21/2025 12:23:27 PM	Peak Integrated by Software
VL1119ABS01	VL043234.D	1,4-Dioxane	sam	11/21/2025 11:23:00 AM	MMDadoda	11/21/2025 12:23:30 PM	Peak Integrated by Software
VL1119ABS01	VL043234.D	m/p-Xylene	sam	11/21/2025 11:23:00 AM	MMDadoda	11/21/2025 12:23:30 PM	Peak Integrated by Software
VL1119ABS01	VL043234.D	Propene	sam	11/21/2025 11:23:00 AM	MMDadoda	11/21/2025 12:23:30 PM	Peak Integrated by Software
Q3626-01	VL043235.D	Carbon Tetrachloride	sam	11/21/2025 11:22:09 AM	MMDadoda	11/21/2025 12:23:34 PM	Peak Integrated by Software
Q3626-01	VL043235.D	Chlorodifluoromethane	sam	11/21/2025 11:22:09 AM	MMDadoda	11/21/2025 12:23:34 PM	Peak Integrated by Software
Q3626-01	VL043235.D	Naphthalene	sam	11/21/2025 11:22:09 AM	MMDadoda	11/21/2025 12:23:34 PM	Peak Integrated by Software
Q3626-01	VL043235.D	Toluene	sam	11/21/2025 11:22:09 AM	MMDadoda	11/21/2025 12:23:34 PM	Peak Integrated by Software
Q3626-01	VL043235.D	Trichloroethene	sam	11/21/2025 11:22:09 AM	MMDadoda	11/21/2025 12:23:34 PM	Peak Integrated by Software
Q3626-02	VL043236.D	1,1,1-Trichloroethane	sam	11/21/2025 11:21:33 AM	MMDadoda	11/21/2025 12:23:40 PM	Peak Integrated by Software
Q3626-02	VL043236.D	Carbon Tetrachloride	sam	11/21/2025 11:21:33 AM	MMDadoda	11/21/2025 12:23:40 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL111925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3626-02	VL043236.D	Chlorodifluoromethane	sam	11/21/2025 11:21:33 AM	MMDadoda	11/21/2025 12:23:40 PM	Peak Integrated by Software
Q3626-02	VL043236.D	tert-Butyl alcohol	sam	11/21/2025 11:21:33 AM	MMDadoda	11/21/2025 12:23:40 PM	Peak Integrated by Software
Q3626-02	VL043236.D	Toluene	sam	11/21/2025 11:21:33 AM	MMDadoda	11/21/2025 12:23:40 PM	Peak Integrated by Software
Q3626-02	VL043236.D	Trichloroethene	sam	11/21/2025 11:21:33 AM	MMDadoda	11/21/2025 12:23:40 PM	Peak Integrated by Software
Q3626-03	VL043237.D	Chlorodifluoromethane	sam	11/21/2025 11:21:27 AM	MMDadoda	11/21/2025 12:23:47 PM	Peak Integrated by Software
Q3626-03	VL043237.D	m/p-Xylene	sam	11/21/2025 11:21:27 AM	MMDadoda	11/21/2025 12:23:47 PM	Peak Integrated by Software
Q3626-03	VL043237.D	Toluene	sam	11/21/2025 11:21:27 AM	MMDadoda	11/21/2025 12:23:47 PM	Peak Integrated by Software
Q3626-03	VL043237.D	Trichloroethene	sam	11/21/2025 11:21:27 AM	MMDadoda	11/21/2025 12:23:47 PM	Peak Integrated by Software
Q3626-04	VL043238.D	Carbon Tetrachloride	sam	11/21/2025 11:23:16 AM	MMDadoda	11/21/2025 12:23:50 PM	Peak Integrated by Software
Q3626-04	VL043238.D	Chlorodifluoromethane	sam	11/21/2025 11:23:16 AM	MMDadoda	11/21/2025 12:23:50 PM	Peak Integrated by Software
Q3626-04	VL043238.D	Heptane	sam	11/21/2025 11:23:16 AM	MMDadoda	11/21/2025 12:23:50 PM	Peak Integrated by Software
Q3626-04	VL043238.D	m/p-Xylene	sam	11/21/2025 11:23:16 AM	MMDadoda	11/21/2025 12:23:50 PM	Peak Integrated by Software
Q3626-04	VL043238.D	tert-Butyl alcohol	sam	11/21/2025 11:23:16 AM	MMDadoda	11/21/2025 12:23:50 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL111925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3626-04	VL043238.D	Tetrachloroethene	sam	11/21/2025 11:23:16 AM	MMDadoda	11/21/2025 12:23:50 PM	Peak Integrated by Software
Q3626-04	VL043238.D	Toluene	sam	11/21/2025 11:23:16 AM	MMDadoda	11/21/2025 12:23:50 PM	Peak Integrated by Software
Q3626-05	VL043239.D	1,2,4-Trimethylbenzene	sam	11/21/2025 11:21:22 AM	MMDadoda	11/21/2025 12:23:55 PM	Peak Integrated by Software
Q3626-05	VL043239.D	Carbon Tetrachloride	sam	11/21/2025 11:21:22 AM	MMDadoda	11/21/2025 12:23:55 PM	Peak Integrated by Software
Q3626-05	VL043239.D	m/p-Xylene	sam	11/21/2025 11:21:22 AM	MMDadoda	11/21/2025 12:23:55 PM	Peak Integrated by Software
Q3626-05	VL043239.D	Toluene	sam	11/21/2025 11:21:22 AM	MMDadoda	11/21/2025 12:23:55 PM	Peak Integrated by Software
Q3626-05	VL043239.D	Trichloroethene	sam	11/21/2025 11:21:22 AM	MMDadoda	11/21/2025 12:23:55 PM	Peak Integrated by Software
Q3626-06	VL043240.D	Carbon Tetrachloride	sam	11/21/2025 11:21:17 AM	MMDadoda	11/21/2025 12:24:01 PM	Peak Integrated by Software
Q3626-06	VL043240.D	Chlorodifluoromethane	sam	11/21/2025 11:21:17 AM	MMDadoda	11/21/2025 12:24:01 PM	Peak Integrated by Software
Q3626-06	VL043240.D	m/p-Xylene	sam	11/21/2025 11:21:17 AM	MMDadoda	11/21/2025 12:24:01 PM	Peak Integrated by Software
Q3626-06	VL043240.D	Toluene	sam	11/21/2025 11:21:17 AM	MMDadoda	11/21/2025 12:24:01 PM	Peak Integrated by Software
Q3626-06	VL043240.D	Trichloroethene	sam	11/21/2025 11:21:17 AM	MMDadoda	11/21/2025 12:24:01 PM	Peak Integrated by Software
Q3626-06	VL043240.D	Trichlorofluoromethane	sam	11/21/2025 11:21:17 AM	MMDadoda	11/21/2025 12:24:01 PM	Peak Integrated by Software

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Sequence:	VL111925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3626-07	VL043241.D	Benzene	sam	11/21/2025 11:21:13 AM	MMDadoda	11/21/2025 12:24:05 PM	Peak Integrated by Software
Q3626-07	VL043241.D	Carbon Tetrachloride	sam	11/21/2025 11:21:13 AM	MMDadoda	11/21/2025 12:24:05 PM	Peak Integrated by Software
Q3626-07	VL043241.D	m/p-Xylene	sam	11/21/2025 11:21:13 AM	MMDadoda	11/21/2025 12:24:05 PM	Peak Integrated by Software
Q3626-07	VL043241.D	Toluene	sam	11/21/2025 11:21:13 AM	MMDadoda	11/21/2025 12:24:05 PM	Peak Integrated by Software
Q3626-07	VL043241.D	Trichloroethene	sam	11/21/2025 11:21:13 AM	MMDadoda	11/21/2025 12:24:05 PM	Peak Integrated by Software
Q3626-08	VL043242.D	Carbon Tetrachloride	sam	11/21/2025 11:21:08 AM	MMDadoda	11/21/2025 12:24:11 PM	Peak Integrated by Software
Q3626-08	VL043242.D	Toluene	sam	11/21/2025 11:21:08 AM	MMDadoda	11/21/2025 12:24:11 PM	Peak Integrated by Software
Q3626-08	VL043242.D	Trichloroethene	sam	11/21/2025 11:21:08 AM	MMDadoda	11/21/2025 12:24:11 PM	Peak Integrated by Software
Q3626-09	VL043243.D	Carbon Tetrachloride	sam	11/21/2025 11:22:15 AM	MMDadoda	11/21/2025 12:24:15 PM	Peak Integrated by Software
Q3626-09	VL043243.D	Chlorodifluoromethane	sam	11/21/2025 11:22:15 AM	MMDadoda	11/21/2025 12:24:15 PM	Peak Integrated by Software
Q3626-09	VL043243.D	m/p-Xylene	sam	11/21/2025 11:22:15 AM	MMDadoda	11/21/2025 12:24:15 PM	Peak Integrated by Software
Q3626-09	VL043243.D	Styrene	sam	11/21/2025 11:22:15 AM	MMDadoda	11/21/2025 12:24:15 PM	Peak Integrated by Software
Q3626-09	VL043243.D	Tetrahydrofuran	sam	11/21/2025 11:22:15 AM	MMDadoda	11/21/2025 12:24:15 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL111925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3626-09	VL043243.D	Trichloroethene	sam	11/21/2025 11:22:15 AM	MMDadoda	11/21/2025 12:24:15 PM	Peak Integrated by Software
Q3626-09	VL043243.D	Trichlorofluoromethane	sam	11/21/2025 11:22:15 AM	MMDadoda	11/21/2025 12:24:15 PM	Peak Integrated by Software
Q3626-10	VL043244.D	Carbon Tetrachloride	sam	11/21/2025 11:21:03 AM	MMDadoda	11/21/2025 12:24:20 PM	Peak Integrated by Software
Q3626-10	VL043244.D	Heptane	sam	11/21/2025 11:21:03 AM	MMDadoda	11/21/2025 12:24:20 PM	Peak Integrated by Software
Q3626-10	VL043244.D	m/p-Xylene	sam	11/21/2025 11:21:03 AM	MMDadoda	11/21/2025 12:24:20 PM	Peak Integrated by Software
Q3626-10	VL043244.D	Toluene	sam	11/21/2025 11:21:03 AM	MMDadoda	11/21/2025 12:24:20 PM	Peak Integrated by Software
Q3626-11	VL043245.D	4-Methyl-2-Pentanone	sam	11/21/2025 11:23:21 AM	MMDadoda	11/21/2025 12:24:23 PM	Peak Integrated by Software
Q3626-11	VL043245.D	Heptane	sam	11/21/2025 11:23:21 AM	MMDadoda	11/21/2025 12:24:23 PM	Peak Integrated by Software
Q3626-11	VL043245.D	m/p-Xylene	sam	11/21/2025 11:23:21 AM	MMDadoda	11/21/2025 12:24:23 PM	Peak Integrated by Software
Q3626-11	VL043245.D	Toluene	sam	11/21/2025 11:23:21 AM	MMDadoda	11/21/2025 12:24:23 PM	Peak Integrated by Software
Q3626-12	VL043246.D	1,1,1-Trichloroethane	sam	11/21/2025 11:22:29 AM	MMDadoda	11/21/2025 12:24:26 PM	Peak Integrated by Software
Q3626-12	VL043246.D	4-Methyl-2-Pentanone	sam	11/21/2025 11:22:29 AM	MMDadoda	11/21/2025 12:24:26 PM	Peak Integrated by Software
Q3626-12	VL043246.D	Styrene	sam	11/21/2025 11:22:29 AM	MMDadoda	11/21/2025 12:24:26 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL111925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3626-12DL	VL043247.D	4-Methyl-2-Pentanone	sam	11/21/2025 11:20:58 AM	MMDadoda	11/21/2025 12:24:29 PM	Peak Integrated by Software
Q3626-12DL	VL043247.D	Hexane	sam	11/21/2025 11:20:58 AM	MMDadoda	11/21/2025 12:24:29 PM	Peak Integrated by Software
Q3626-01DL	VL043248.D	Heptane	sam	11/21/2025 11:22:46 AM	MMDadoda	11/21/2025 12:24:33 PM	Peak Integrated by Software
Q3626-02DUP	VL043249.D	1,1,1-Trichloroethane	sam	11/21/2025 11:22:40 AM	MMDadoda	11/21/2025 12:24:40 PM	Peak Integrated by Software
Q3626-02DUP	VL043249.D	Carbon Tetrachloride	sam	11/21/2025 11:22:40 AM	MMDadoda	11/21/2025 12:24:40 PM	Peak Integrated by Software
Q3626-02DUP	VL043249.D	Chlorodifluoromethane	sam	11/21/2025 11:22:40 AM	MMDadoda	11/21/2025 12:24:40 PM	Peak Integrated by Software
Q3626-02DUP	VL043249.D	Heptane	sam	11/21/2025 11:22:40 AM	MMDadoda	11/21/2025 12:24:40 PM	Peak Integrated by Software
Q3626-02DUP	VL043249.D	Toluene	sam	11/21/2025 11:22:40 AM	MMDadoda	11/21/2025 12:24:40 PM	Peak Integrated by Software
Q3626-02DUP	VL043249.D	Trichloroethene	sam	11/21/2025 11:22:40 AM	MMDadoda	11/21/2025 12:24:40 PM	Peak Integrated by Software
Q3626-04DL	VL043250.D	Toluene	sam	11/21/2025 11:22:34 AM	MMDadoda	11/21/2025 12:24:52 PM	Peak Integrated by Software
Q3626-05DL	VL043251.D	Trichloroethene	sam	11/21/2025 11:20:54 AM	MMDadoda	11/21/2025 12:24:56 PM	Peak Integrated by Software
Q3626-11DL	VL043253.D	4-Methyl-2-Pentanone	sam	11/21/2025 11:20:48 AM	MMDadoda	11/21/2025 12:24:59 PM	Peak Integrated by Software
Q3626-11DL	VL043253.D	Tetrachloroethene	sam	11/21/2025 11:20:48 AM	MMDadoda	11/21/2025 12:24:59 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL111925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	VL112025	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL043257.D	1,1,2-Trichloroethane	sam	11/21/2025 11:18:09 AM	MMDadoda	11/21/2025 12:21:47 PM	Peak Integrated by Software
VSTDCCC010	VL043257.D	m/p-Xylene	sam	11/21/2025 11:18:09 AM	MMDadoda	11/21/2025 12:21:47 PM	Peak Integrated by Software
VSTDCCC010	VL043257.D	Propene	sam	11/21/2025 11:18:09 AM	MMDadoda	11/21/2025 12:21:47 PM	Peak Integrated by Software
VL1120ABS01	VL043260.D	m/p-Xylene	sam	11/21/2025 11:18:17 AM	MMDadoda	11/21/2025 12:21:51 PM	Peak Integrated by Software
VL1120ABS01	VL043260.D	Propene	sam	11/21/2025 11:18:17 AM	MMDadoda	11/21/2025 12:21:51 PM	Peak Integrated by Software
Q3626-09DL	VL043275.D	Tetrachloroethene	sam	11/24/2025 7:32:27 AM	MMDadoda	11/24/2025 7:50:47 AM	Peak Integrated by Software
Q3626-09DL	VL043275.D	Trichloroethene	sam	11/24/2025 7:32:27 AM	MMDadoda	11/24/2025 7:50:47 AM	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 # VL111925

Review By	Semsettin Yesilyurt	Review On	11/21/2025 11:23:51 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/21/2025 12:25:15 PM				
SubDirectory	VL111925	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	VL043231.D	19 Nov 2025 08:43	SY/MD	Ok
2	VSTDCCC010	VL043232.D	19 Nov 2025 09:31	SY/MD	Ok,M
3	VL1119ABL01	VL043233.D	19 Nov 2025 11:11	SY/MD	Ok
4	VL1119ABS01	VL043234.D	19 Nov 2025 11:56	SY/MD	Ok,M
5	Q3626-01	VL043235.D	19 Nov 2025 12:43	SY/MD	Dilution
6	Q3626-02	VL043236.D	19 Nov 2025 13:17	SY/MD	Ok,M
7	Q3626-03	VL043237.D	19 Nov 2025 13:50	SY/MD	Ok,M
8	Q3626-04	VL043238.D	19 Nov 2025 14:25	SY/MD	Dilution
9	Q3626-05	VL043239.D	19 Nov 2025 14:59	SY/MD	Dilution
10	Q3626-06	VL043240.D	19 Nov 2025 15:32	SY/MD	Ok,M
11	Q3626-07	VL043241.D	19 Nov 2025 16:06	SY/MD	Ok,M
12	Q3626-08	VL043242.D	19 Nov 2025 16:39	SY/MD	Dilution
13	Q3626-09	VL043243.D	19 Nov 2025 17:13	SY/MD	Dilution
14	Q3626-10	VL043244.D	19 Nov 2025 17:47	SY/MD	Ok,M
15	Q3626-11	VL043245.D	19 Nov 2025 18:21	SY/MD	Dilution
16	Q3626-12	VL043246.D	19 Nov 2025 18:55	SY/MD	Dilution
17	Q3626-12DL	VL043247.D	19 Nov 2025 19:52	SY/MD	Dilution
18	Q3626-01DL	VL043248.D	19 Nov 2025 20:25	SY/MD	Ok,M
19	Q3626-02DUP	VL043249.D	19 Nov 2025 21:01	SY/MD	Ok,M
20	Q3626-04DL	VL043250.D	19 Nov 2025 21:33	SY/MD	Ok,M
21	Q3626-05DL	VL043251.D	19 Nov 2025 22:07	SY/MD	Ok,M

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL111925

Review By	Semsettin Yesilyurt	Review On	11/21/2025 11:23:51 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/21/2025 12:25:15 PM				
SubDirectory	VL111925	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	Q3626-08DL	VL043252.D	19 Nov 2025 22:39	SY/MD	Ok
23	Q3626-11DL	VL043253.D	19 Nov 2025 23:12	SY/MD	Ok,M
24	Q3626-12DL2	VL043254.D	20 Nov 2025 07:35	SY/MD	Ok
25	Q3626-12DL2	VL043255.D	20 Nov 2025 08:08	SY/MD	Not Ok

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 # 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

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 # VL111925

Review By	Semsettin Yesilyurt	Review On	11/21/2025 11:23:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/21/2025 12:25:15 PM		
SubDirectory	VL111925	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	VL043231.D	19 Nov 2025 08:43		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL043232.D	19 Nov 2025 09:31		SY/MD	Ok,M
3	VL1119ABL01	VL1119ABL01	VL043233.D	19 Nov 2025 11:11		SY/MD	Ok
4	VL1119ABS01	VL1119ABS01	VL043234.D	19 Nov 2025 11:56		SY/MD	Ok,M
5	Q3626-01	9A-SG-1	VL043235.D	19 Nov 2025 12:43	Need 5X	SY/MD	Dilution
6	Q3626-02	9A-SG-2	VL043236.D	19 Nov 2025 13:17		SY/MD	Ok,M
7	Q3626-03	9B-SG-1	VL043237.D	19 Nov 2025 13:50		SY/MD	Ok,M
8	Q3626-04	9B-SG-2	VL043238.D	19 Nov 2025 14:25	Need 5X	SY/MD	Dilution
9	Q3626-05	10-SG-1	VL043239.D	19 Nov 2025 14:59	Need 20X	SY/MD	Dilution
10	Q3626-06	11-SG-1	VL043240.D	19 Nov 2025 15:32		SY/MD	Ok,M
11	Q3626-07	12-SG-1	VL043241.D	19 Nov 2025 16:06		SY/MD	Ok,M
12	Q3626-08	12-SG-2	VL043242.D	19 Nov 2025 16:39	Need 5X	SY/MD	Dilution
13	Q3626-09	13-SG-1	VL043243.D	19 Nov 2025 17:13	Need 10X	SY/MD	Dilution
14	Q3626-10	14-SG-1	VL043244.D	19 Nov 2025 17:47		SY/MD	Ok,M
15	Q3626-11	15-SG-1	VL043245.D	19 Nov 2025 18:21	Need 10X	SY/MD	Dilution
16	Q3626-12	16-SG-1	VL043246.D	19 Nov 2025 18:55	Need 40X	SY/MD	Dilution
17	Q3626-12DL	16-SG-1DL	VL043247.D	19 Nov 2025 19:52	Need 600X	SY/MD	Dilution
18	Q3626-01DL	9A-SG-1DL	VL043248.D	19 Nov 2025 20:25		SY/MD	Ok,M

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Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL111925

Review By	Semsettin Yesilyurt	Review On	11/21/2025 11:23:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/21/2025 12:25:15 PM		
SubDirectory	VL111925	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	Q3626-02DUP	9A-SG-2DUP	VL043249.D	19 Nov 2025 21:01		SY/MD	Ok,M
20	Q3626-04DL	9B-SG-2DL	VL043250.D	19 Nov 2025 21:33		SY/MD	Ok,M
21	Q3626-05DL	10-SG-1DL	VL043251.D	19 Nov 2025 22:07		SY/MD	Ok,M
22	Q3626-08DL	12-SG-2DL	VL043252.D	19 Nov 2025 22:39		SY/MD	Ok
23	Q3626-11DL	15-SG-1DL	VL043253.D	19 Nov 2025 23:12		SY/MD	Ok,M
24	Q3626-12DL2	16-SG-1DL2	VL043254.D	20 Nov 2025 07:35		SY/MD	Ok
25	Q3626-12DL2	16-SG-1DL2	VL043255.D	20 Nov 2025 08:08	Not Required	SY/MD	Not Ok

M : Manual Integration

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Fax : 908 789 8922

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	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043256.D	20 Nov 2025 08:41		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL043257.D	20 Nov 2025 10:14		SY/MD	Ok,M
3	VL1120ABL01	VL1120ABL01	VL043258.D	20 Nov 2025 11:01		SY/MD	Ok
4	QC111725 CAN 10588	QC111725 CAN 10588	VL043259.D	20 Nov 2025 11:34		SY/MD	Ok
5	VL1120ABS01	VL1120ABS01	VL043260.D	20 Nov 2025 12:07		SY/MD	Ok,M
6	Q3655-01	SG-1	VL043261.D	20 Nov 2025 12:49		SY/MD	Ok,M
7	Q3655-02	SG-2	VL043262.D	20 Nov 2025 13:24	Need 10X	SY/MD	Dilution
8	Q3655-03	SG-3	VL043263.D	20 Nov 2025 13:58	Need 10X	SY/MD	Dilution
9	Q3655-04	SG-4	VL043264.D	20 Nov 2025 14:32		SY/MD	Ok,M
10	Q3655-05	SG-5	VL043265.D	20 Nov 2025 15:06		SY/MD	Ok,M
11	Q3655-06	SG-6	VL043266.D	20 Nov 2025 15:40		SY/MD	Ok,M
12	Q3655-01DUP	SG-1DUP	VL043267.D	20 Nov 2025 16:20		SY/MD	Ok,M
13	Q3655-02DL	SG-2DL	VL043268.D	20 Nov 2025 16:54		SY/MD	Ok,M
14	Q3655-03DL	SG-3DL	VL043269.D	20 Nov 2025 17:27		SY/MD	Ok,M
15	Q3698-03	IA1	VL043270.D	20 Nov 2025 18:02	Need 5X	SY/MD	Dilution
16	Q3698-04	OA1	VL043271.D	20 Nov 2025 18:38		SY/MD	Ok,M
17	Q3698-01	SV1	VL043272.D	20 Nov 2025 19:11		SY/MD	Ok,M
18	Q3698-02	SV2	VL043273.D	20 Nov 2025 19:44		SY/MD	Ok,M

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Fax : 908 789 8922

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	

19	Q3698-03DL	IA1DL	VL043274.D	20 Nov 2025 20:43		SY/MD	Ok,M
20	Q3626-09DL	13-SG-1DL	VL043275.D	21 Nov 2025 07:53		SY/MD	Ok,M
21	Q3698-04DUP	OA1DUP	VL043276.D	21 Nov 2025 08:28		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 : Q3626

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: VL111925,VL112025,

Standard ID :
AP2691,AP2694,AP2695,AP2696,AP2697,

Chemical ID :
A1117,A1141,A1142,A1143,

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Fax : 908 789 8922

Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
47	Internal Standard/Surrogate Mix-80 ppbv	AP2691	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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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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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.

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

Process Report

Order ID : Q3626

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
11/14/2025	B2510052	Q3626-05	-10.0	10464	1.4 L	10698		C2509004	**VL042989.D** Seq :VL092325 TUNE : VL042982.D ICAL : VL042955.D CCAL : VL042983.D MB : VL042984.D
11/14/2025	B2510052	Q3626-06	-8.0	10435	1.4 L	10557		C2509004	**VL042989.D** Seq :VL092325 TUNE : VL042982.D ICAL : VL042955.D CCAL : VL042983.D MB : VL042984.D
11/14/2025	B2510051	Q3626-08	-10.8	10046	1.4 L	10165		C2504011	**VL042492.D** Seq :vl050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D
11/14/2025	B2510051	Q3626-12	-9.2	10794	1.4 L	10475		C2504011	**VL042492.D** Seq :vl050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D
11/14/2025	B2510051	Q3626-01	-8.0	10682	1.4 L	10205		C2504011	**VL042492.D** Seq :vl050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D
11/14/2025	B2510051	Q3626-04	-9.6	10677	1.4 L	10689		C2504011	**VL042492.D** Seq :vl050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D

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

Process Report

Order ID : Q3626

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
11/14/2025	B2510051	Q3626-09	-10.8	10673	1.4 L	10623		C2504011	**VL042492.D** Seq :vl050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D
11/14/2025	B2510051	Q3626-07	-10.8	10471	1.4 L	10569		C2504011	**VL042492.D** Seq :vl050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D
11/14/2025	B2510051	Q3626-03	-9.6	10450	1.4 L	10694		C2504011	**VL042492.D** Seq :vl050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D
11/14/2025	B2510051	Q3626-10	-7.5	10416	1.4 L	10518		C2504011	**VL042492.D** Seq :vl050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D
11/14/2025	B2510051	Q3626-02	-10.4	10413	1.4 L	10512		C2504011	**VL042492.D** Seq :vl050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D
11/14/2025	B2510051	Q3626-11	-10.4	10123	1.4 L	10242		C2509004	**VL042989.D** Seq :VL092325 TUNE : VL042982.D ICAL : VL042955.D CCAL : VL042983.D MB : VL042984.D

Canister Cleaning

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

Canister Batch : C2509004

Type of Canister : 1.4 L

Cleaning Date : 02/26/2025

Analyst : sam

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10747	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-07	10747	VL042989.D
10752	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3556-04	10747	VL042989.D
10470	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D
10464	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3626-05	10747	VL042989.D
10435	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3626-06	10747	VL042989.D
10123	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3626-11	10747	VL042989.D
10737	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3556-03	10747	VL042989.D
10420	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-03	10420	VL042990.D
10743	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-06	10743	VL042991.D
10451	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D
10428	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3557-05	10747	VL042989.D
10423	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3555-04	10747	VL042989.D
10668	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-04	10668	VL042992.D
10122	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D
10136	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-01	10136	VL042987.D
10147	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-02	10147	VL042986.D
10674	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3557-04	10747	VL042989.D
10684	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-05	10684	VL042988.D
10653	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3555-03	10747	VL042989.D
10746	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D

Canister Cleaning

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

Canister Batch : C2504011

Type of Canister : 1.4 L

Cleaning Date : 04/22/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10682	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-01	10669	VL042492.D
10793	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3627-05	10669	VL042492.D
10795	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3655-02	10669	VL042492.D
10794	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-12	10669	VL042492.D
10763	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10677	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-04	10669	VL042492.D
10669	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3655-01	10669	VL042492.D
10673	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-09	10669	VL042492.D
10046	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-08	10669	VL042492.D
10450	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-03	10669	VL042492.D
10416	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-10	10669	VL042492.D
10118	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10679	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3655-06	10669	VL042492.D
10471	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-07	10669	VL042492.D
10123	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10454	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10455	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10413	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-02	10669	VL042492.D
10652	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10452	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10650	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3627-04	10669	VL042492.D

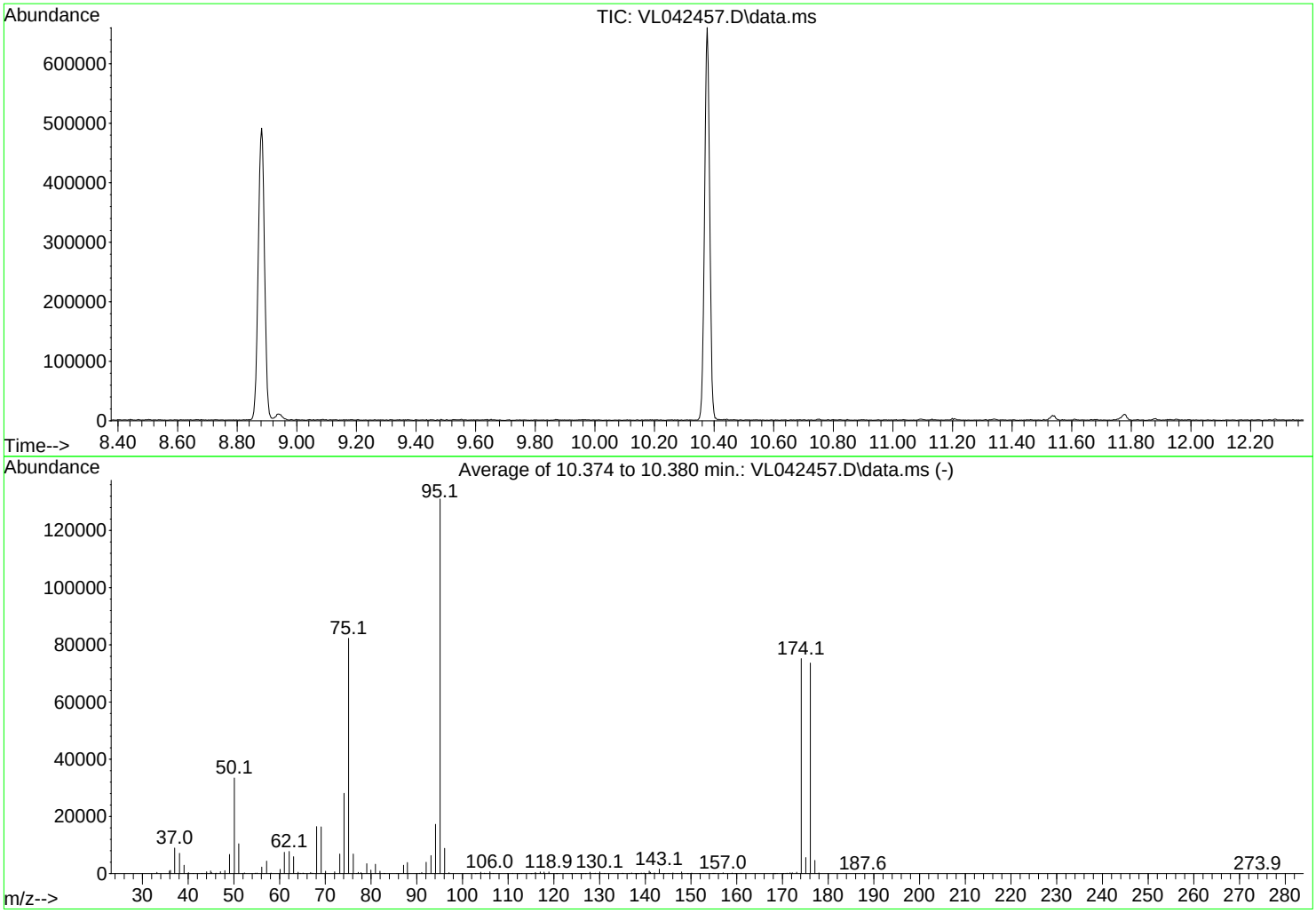
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042457.D
Acq On : 01 May 2025 08:19
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

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



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.5	33424	PASS
75	95	30	66	62.8	82325	PASS
95	95	100	100	100.0	131013	PASS
96	95	5	9	6.8	8845	PASS
173	174	0.00	2	0.6	483	PASS
174	95	50	120	57.4	75195	PASS
175	174	4	9	7.5	5628	PASS
176	174	93	101	97.9	73643	PASS
177	176	5	9	6.3	4652	PASS

Response Factor Report MSVOA_L

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

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

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

Response Factor Report MSVOA_L

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

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

(#) = Out of Range

Quantitation Report (QT Reviewed)

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

Quant Time: May 02 01:39:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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

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

Quantitation Report (QT Reviewed)

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

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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

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

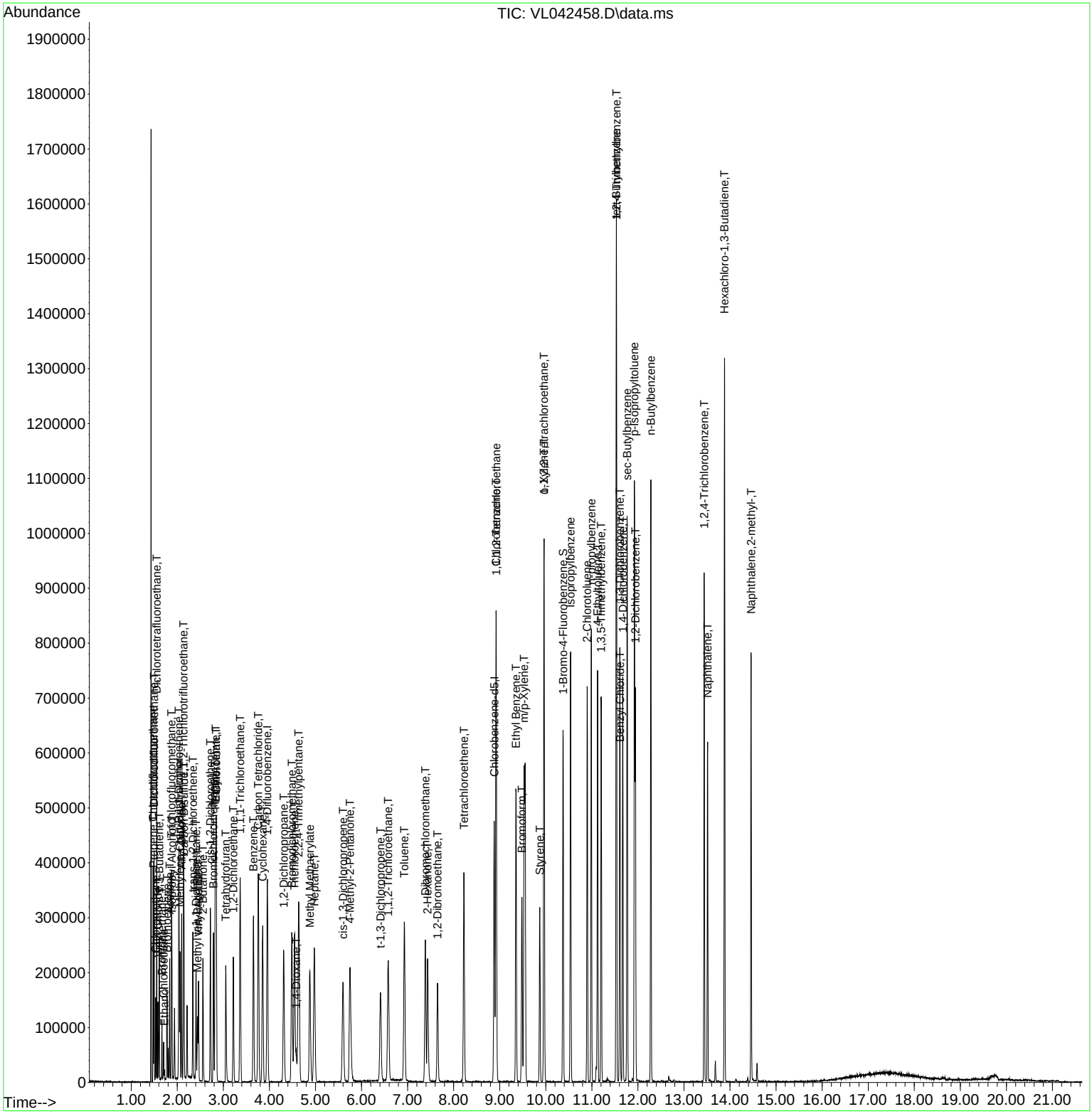
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042459.D
Acq On : 01 May 2025 09:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	73220	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	201951	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	174624	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	159777	9.869	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	23859	1.969	ppbv		100
3) Chlorodifluoromethane	1.476	51	26655	2.081	ppbv		95
4) Chloromethane	1.531	50	10751	2.123	ppbv		95
5) Vinyl Chloride	1.580	62	9122	1.789	ppbv		92
6) Bromomethane	1.667	94	4793	1.990	ppbv	#	62
7) Chloroethane	1.703	64	3972	2.110	ppbv		94
8) Dichlorotetrafluoroethane	1.554	85	20529	2.055	ppbv		100
9) Propene	1.482	41	9234	2.204	ppbv		95
10) Heptane	4.978	43	23329m	2.146	ppbv		
11) Trichlorofluoromethane	1.877	101	22375	2.070	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.140	101	18230	2.042	ppbv		97
13) Ethanol	1.722	45	2099	2.468	ppbv		94
14) Bromoethene	1.780	108	6686	2.029	ppbv	#	96
15) Acetone	1.835	43	29607	2.215	ppbv		99
16) 1,3-Butadiene	1.609	39	12245	2.077	ppbv		92
17) tert-Butyl alcohol	2.042	59	23722	2.014	ppbv	#	93
18) 1,1-Dichloroethene	2.033	96	8303	1.992	ppbv		92
19) Isopropyl Alcohol	1.884	45	14288	1.931	ppbv		99
20) Methylene Chloride	2.062	84	7590	1.889	ppbv		96
21) Allyl Chloride	2.094	41	17050	1.983	ppbv		96
22) trans-1,2-Dichloroethene	2.340	96	9444	1.940	ppbv		97
23) Vinyl Acetate	2.463	43	26502	2.128	ppbv		98
24) 1,1-Dichloroethane	2.408	63	20027	2.016	ppbv		98
25) Ethyl Acetate	2.839	43	43122	2.015	ppbv		97
26) Hexane	2.822	57	19691	2.112	ppbv		95
27) Carbon Disulfide	2.149	76	21945	2.017	ppbv	#	43
28) Methyl tert-Butyl Ether	2.441	73	11119	1.985	ppbv		94
29) Chloroform	2.848	83	35127	2.010	ppbv		86
30) Cyclohexane	3.858	84	16056	2.060	ppbv		95
31) cis-1,2-Dichloroethene	2.719	61	22619	2.079	ppbv		95
32) 1,1,1-Trichloroethane	3.369	97	36768	1.940	ppbv		99
34) 2-Butanone	2.557	43	31242	2.139	ppbv		95
35) Carbon Tetrachloride	3.764	117	35326	2.011	ppbv		97
36) Benzene	3.661	78	41848	2.196	ppbv	#	88
37) 1,2-Dichloroethane	3.217	62	31049	2.114	ppbv		99
38) Trichloroethene	4.544	130	16311m	2.244	ppbv		
39) 1,2-Dichloropropane	4.311	63	14611	2.047	ppbv		91
40) 1,4-Dioxane	4.593	88	6957m	2.096	ppbv		
41) Tetrahydrofuran	3.059	42	15641m	2.258	ppbv		
42) Bromodichloromethane	4.489	83	37615	2.096	ppbv	#	99
43) Methyl Methacrylate	4.884	69	14610m	2.059	ppbv		
44) 2,2,4-Trimethylpentane	4.638	57	65967	2.142	ppbv		99
45) t-1,3-Dichloropropene	6.409	75	18560m	1.987	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042459.D
Acq On : 01 May 2025 09:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	22184	2.000	ppbv		93
47) 1,1,2-Trichloroethane	6.587	97	17307m	2.212	ppbv		
48) Dibromochloromethane	7.386	129	27174	2.057	ppbv		99
49) Bromoform	9.483	173	23126	2.088	ppbv		98
50) 4-Methyl-2-Pentanone	5.758	43	39798	2.155	ppbv		99
51) 2-Hexanone	7.441	43	32196	2.177	ppbv	#	97
52) Tetrachloroethene	8.224	164	13670	1.885	ppbv		93
53) Toluene	6.930	91	41392	2.052	ppbv		97
54) 1,2-Dibromoethane	7.652	107	24650	2.049	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.927	131	20822	2.019	ppbv		95
57) Chlorobenzene	8.920	112	36187	2.062	ppbv	#	88
58) Ethyl Benzene	9.354	91	61177	2.096	ppbv		91
59) m/p-Xylene	9.551	91	105185m	4.299	ppbv		
60) o-Xylene	9.963	91	53051	2.169	ppbv		99
61) Styrene	9.872	104	18776	2.054	ppbv		97
62) Isopropylbenzene	10.539	105	75626	2.140	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.963	83	34562	2.178	ppbv		98
64) n-propylbenzene	10.989	120	19160	2.226	ppbv		94
65) tert-Butylbenzene	11.532	119	70813	2.246	ppbv		97
66) Benzyl Chloride	11.613	91	6794	1.864	ppbv		97
67) sec-Butylbenzene	11.769	105	101458	2.264	ppbv		99
69) p-Isopropyltoluene	11.924	119	84026	2.226	ppbv		98
70) n-Butylbenzene	12.280	91	89400	2.291	ppbv		97
71) 2-Chlorotoluene	10.901	91	59271	2.139	ppbv		97
72) 4-Ethyltoluene	11.124	105	63833	2.210	ppbv		98
73) 1,3,5-Trimethylbenzene	11.205	105	56516	2.225	ppbv		94
74) 1,2,4-Trimethylbenzene	11.536	105	72485	2.359	ppbv		94
75) 1,3-Dichlorobenzene	11.607	146	36885	2.156	ppbv		97
76) 1,4-Dichlorobenzene	11.671	146	33728	2.083	ppbv		94
77) 1,2-Dichlorobenzene	11.947	146	36078	2.154	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	37360	2.234	ppbv		99
79) Naphthalene	13.513	128	75248	2.920	ppbv		96
80) Naphthalene,2-methyl-	14.458	142	54922	2.857	ppbv		96
81) 1,2,4-Trichlorobenzene	13.442	180	33063	2.396	ppbv		95

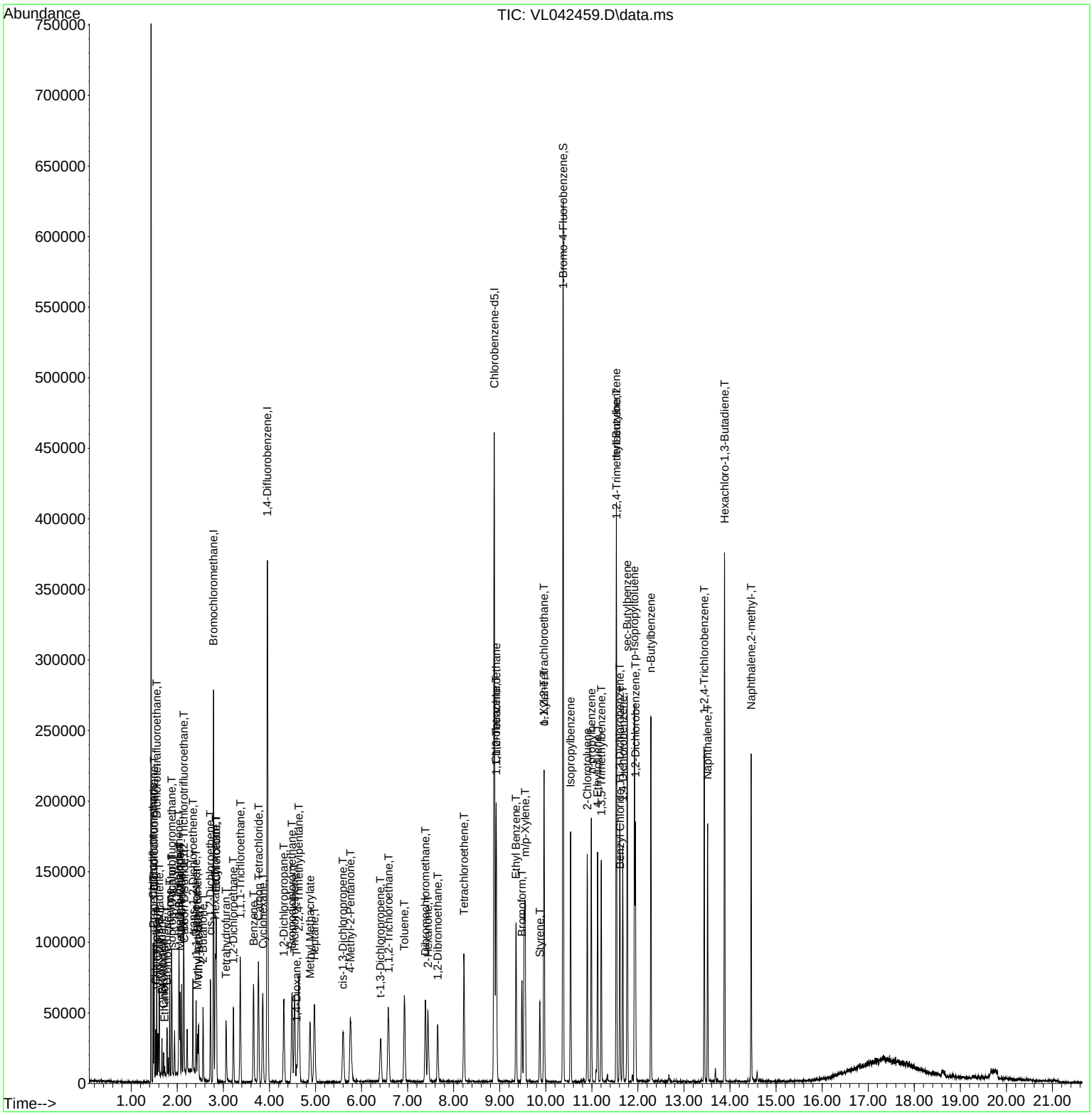
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042459.D
Acq On : 01 May 2025 09:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042460.D
Acq On : 01 May 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:41:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	71499	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	200111	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	170872	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	158600	10.011	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	11796	0.997	ppbv		96
3) Chlorodifluoromethane	1.476	51	13375	1.069	ppbv		96
4) Chloromethane	1.531	50	4975	1.006	ppbv		95
5) Vinyl Chloride	1.576	62	4469	0.898	ppbv		100
6) Bromomethane	1.667	94	2570	1.092	ppbv		86
7) Chloroethane	1.703	64	1943	1.057	ppbv		94
8) Dichlorotetrafluoroethane	1.554	85	9804	1.005	ppbv		91
9) Propene	1.482	41	4331	1.058	ppbv		88
10) Heptane	4.975	43	11681m	1.101	ppbv		
11) Trichlorofluoromethane	1.877	101	10649m	1.009	ppbv		
12) 1,1,2-Trichlorotrifluo...	2.140	101	8821	1.012	ppbv		97
13) Ethanol	1.719	45	975	1.174	ppbv	#	52
14) Bromoethene	1.780	108	3164	0.983	ppbv	#	91
15) Acetone	1.835	43	14974	1.147	ppbv		98
16) 1,3-Butadiene	1.609	39	6248	1.085	ppbv		96
17) tert-Butyl alcohol	2.039	59	11546	1.004	ppbv	#	91
18) 1,1-Dichloroethene	2.033	96	4200	1.032	ppbv		86
19) Isopropyl Alcohol	1.884	45	7775	1.076	ppbv		99
20) Methylene Chloride	2.059	84	3909	0.996	ppbv		86
21) Allyl Chloride	2.094	41	8443	1.006	ppbv		94
22) trans-1,2-Dichloroethene	2.337	96	5305	1.116	ppbv		88
23) Vinyl Acetate	2.460	43	10876	0.894	ppbv	#	94
24) 1,1-Dichloroethane	2.405	63	10477	1.080	ppbv		97
25) Ethyl Acetate	2.835	43	21761	1.041	ppbv		99
26) Hexane	2.822	57	9223	1.013	ppbv		97
27) Carbon Disulfide	2.149	76	10342	0.973	ppbv	#	21
28) Methyl tert-Butyl Ether	2.441	73	6101	1.115	ppbv		93
29) Chloroform	2.848	83	17744	1.040	ppbv		97
30) Cyclohexane	3.852	84	7139	0.938	ppbv		88
31) cis-1,2-Dichloroethene	2.719	61	11472	1.080	ppbv		87
32) 1,1,1-Trichloroethane	3.366	97	17881	0.966	ppbv		98
34) 2-Butanone	2.560	43	14641	1.012	ppbv		94
35) Carbon Tetrachloride	3.755	117	18704	1.075	ppbv	#	76
36) Benzene	3.654	78	19493	1.032	ppbv	#	94
37) 1,2-Dichloroethane	3.214	62	15116	1.039	ppbv		98
38) Trichloroethene	4.541	130	7278m	1.011	ppbv		
39) 1,2-Dichloropropane	4.302	63	8103m	1.145	ppbv		
40) 1,4-Dioxane	4.593	88	3703m	1.126	ppbv		
41) Tetrahydrofuran	3.062	42	7091m	1.033	ppbv		
42) Bromodichloromethane	4.486	83	18427	1.036	ppbv	#	81
43) Methyl Methacrylate	4.874	69	6829m	0.971	ppbv		
44) 2,2,4-Trimethylpentane	4.635	57	31820m	1.043	ppbv		
45) t-1,3-Dichloropropene	6.409	75	8461m	0.914	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042460.D
Acq On : 01 May 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:41:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.596	75	10781m	0.981	ppbv		
47)	1,1,2-Trichloroethane	6.583	97	8183m	1.055	ppbv		
48)	Dibromochloromethane	7.386	129	12859m	0.982	ppbv		
49)	Bromoform	9.483	173	10709	0.976	ppbv		97
50)	4-Methyl-2-Pentanone	5.768	43	19618m	1.072	ppbv		
51)	2-Hexanone	7.448	43	15091m	1.030	ppbv		
52)	Tetrachloroethene	8.221	164	6780	0.943	ppbv		86
53)	Toluene	6.930	91	19390	0.970	ppbv		97
54)	1,2-Dibromoethane	7.655	107	11980	1.005	ppbv		91
56)	1,1,1,2-Tetrachloroethane	8.920	131	10811	1.071	ppbv		94
57)	Chlorobenzene	8.917	112	18111	1.055	ppbv		90
58)	Ethyl Benzene	9.354	91	27914	0.978	ppbv		97
59)	m/p-Xylene	9.548	91	47105m	1.968	ppbv		
60)	o-Xylene	9.962	91	23806	0.995	ppbv		98
61)	Styrene	9.872	104	8537	0.954	ppbv		98
62)	Isopropylbenzene	10.539	105	34679	1.003	ppbv		98
63)	1,1,2,2-Tetrachloroethane	9.962	83	16837	1.084	ppbv		98
64)	n-propylbenzene	10.985	120	8958	1.064	ppbv		86
65)	tert-Butylbenzene	11.529	119	30604	0.992	ppbv		95
66)	Benzyl Chloride	11.613	91	3486	0.978	ppbv	#	96
67)	sec-Butylbenzene	11.765	105	43740	0.998	ppbv		98
69)	p-Isopropyltoluene	11.927	119	37011	1.002	ppbv		99
70)	n-Butylbenzene	12.280	91	37892	0.992	ppbv		97
71)	2-Chlorotoluene	10.898	91	26813	0.989	ppbv		99
72)	4-Ethyltoluene	11.124	105	28149	0.996	ppbv		96
73)	1,3,5-Trimethylbenzene	11.202	105	25073	1.009	ppbv		97
74)	1,2,4-Trimethylbenzene	11.535	105	30550	1.016	ppbv		92
75)	1,3-Dichlorobenzene	11.607	146	17456	1.043	ppbv		98
76)	1,4-Dichlorobenzene	11.671	146	16151	1.019	ppbv		99
77)	1,2-Dichlorobenzene	11.947	146	17207	1.050	ppbv		94
78)	Hexachloro-1,3-Butadiene	13.879	225	18472	1.129	ppbv		98
79)	Naphthalene	13.513	128	28316	1.123	ppbv	#	94
80)	Naphthalene,2-methyl-	14.458	142	15804	0.840	ppbv		93
81)	1,2,4-Trichlorobenzene	13.439	180	13644	1.011	ppbv		96

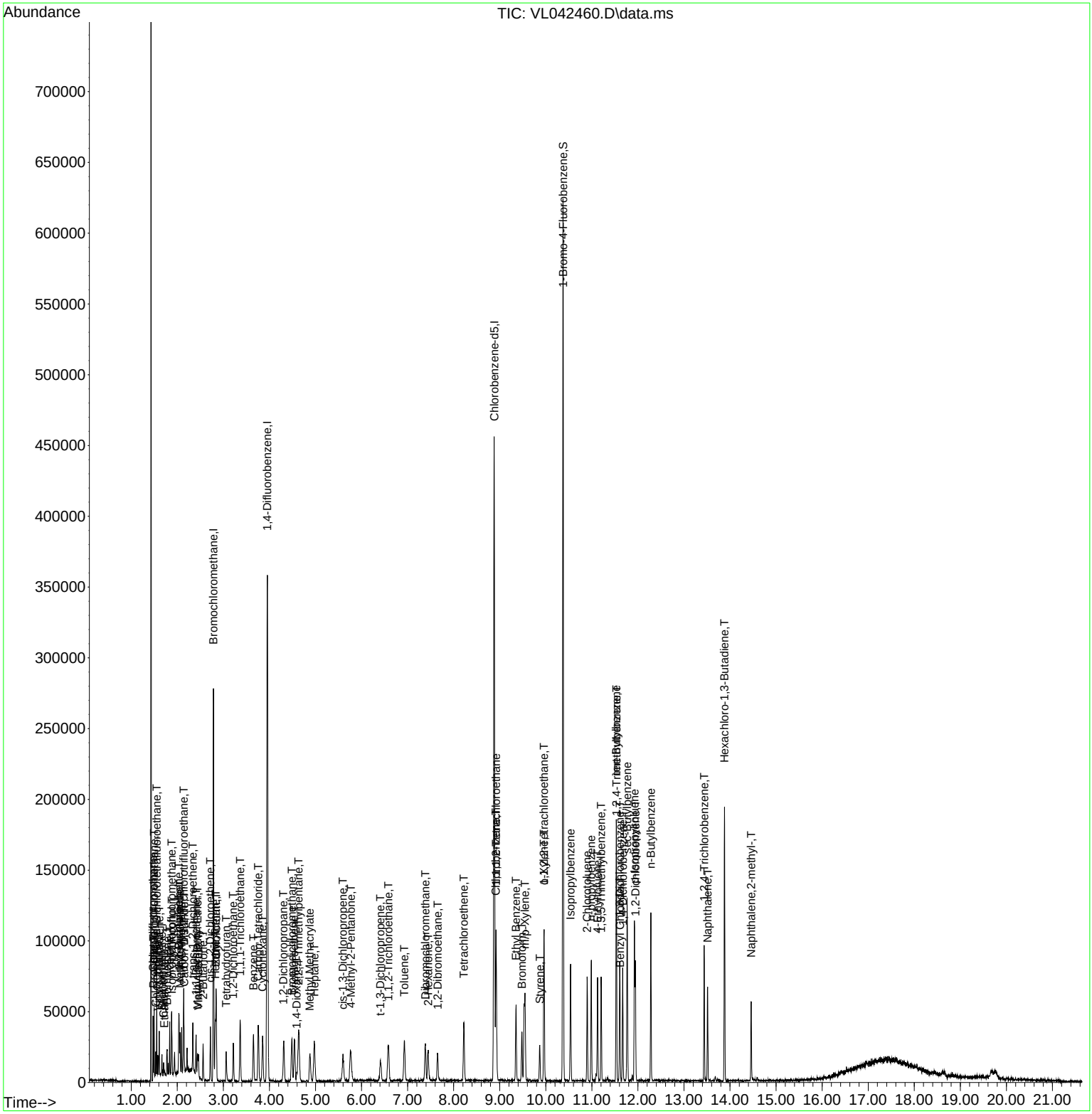
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042460.D
Acq On : 01 May 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:41:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042461.D
Acq On : 01 May 2025 10:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:42:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	68913	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	193701	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	166625	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	150277	9.728	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	6501	0.570	ppbv		94
3) Chlorodifluoromethane	1.476	51	6500	0.539	ppbv		99
4) Chloromethane	1.535	50	2542	0.533	ppbv		95
5) Vinyl Chloride	1.580	62	2441	0.509	ppbv		92
6) Bromomethane	1.667	94	1202	0.530	ppbv		97
7) Chloroethane	1.703	64	862	0.486	ppbv	#	68
8) Dichlorotetrafluoroethane	1.554	85	4979	0.530	ppbv		93
9) Propene	1.486	41	2017	0.511	ppbv		96
10) Heptane	4.982	43	4397m	0.430	ppbv		
11) Trichlorofluoromethane	1.878	101	5720	0.562	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.137	101	4540	0.540	ppbv		94
13) Ethanol	1.722	45	474m	0.592	ppbv		
14) Bromoethene	1.784	108	1680	0.542	ppbv	#	87
15) Acetone	1.839	43	7680	0.610	ppbv	#	82
16) 1,3-Butadiene	1.609	39	3044	0.549	ppbv		86
17) tert-Butyl alcohol	2.046	59	6256	0.564	ppbv	#	91
18) 1,1-Dichloroethene	2.036	96	2240	0.571	ppbv		94
19) Isopropyl Alcohol	1.887	45	4208	0.604	ppbv	#	96
20) Methylene Chloride	2.062	84	2594	0.686	ppbv	#	80
21) Allyl Chloride	2.098	41	4420	0.546	ppbv	#	93
22) trans-1,2-Dichloroethene	2.340	96	2554	0.557	ppbv		95
23) Vinyl Acetate	2.460	43	6541	0.558	ppbv	#	95
24) 1,1-Dichloroethane	2.412	63	4933	0.528	ppbv		98
25) Ethyl Acetate	2.842	43	10344	0.514	ppbv	#	96
26) Hexane	2.829	57	4403	0.502	ppbv		95
27) Carbon Disulfide	2.153	76	5201	0.508	ppbv	#	1
28) Methyl tert-Butyl Ether	2.441	73	2762	0.524	ppbv	#	82
29) Chloroform	2.852	83	8791	0.535	ppbv		92
30) Cyclohexane	3.855	84	3910m	0.533	ppbv		
31) cis-1,2-Dichloroethene	2.726	61	5345m	0.522	ppbv		
32) 1,1,1-Trichloroethane	3.366	97	8846m	0.496	ppbv		
34) 2-Butanone	2.564	43	7766	0.554	ppbv		93
35) Carbon Tetrachloride	3.768	117	8286	0.492	ppbv		86
36) Benzene	3.655	78	8951	0.490	ppbv	#	92
37) 1,2-Dichloroethane	3.224	62	7149	0.507	ppbv	#	95
38) Trichloroethene	4.548	130	3769m	0.541	ppbv		
39) 1,2-Dichloropropane	4.321	63	3561m	0.520	ppbv		
40) 1,4-Dioxane	4.619	88	1701m	0.534	ppbv		
41) Tetrahydrofuran	3.069	42	3187m	0.480	ppbv		
42) Bromodichloromethane	4.496	83	8212	0.477	ppbv		93
43) Methyl Methacrylate	4.891	69	3179m	0.467	ppbv		
44) 2,2,4-Trimethylpentane	4.648	57	14435m	0.489	ppbv		
45) t-1,3-Dichloropropene	6.415	75	4238m	0.473	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042461.D
Acq On : 01 May 2025 10:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:42:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	5091m	0.479	ppbv		
47) 1,1,2-Trichloroethane	6.584	97	3606m	0.480	ppbv		
48) Dibromochloromethane	7.390	129	6304m	0.498	ppbv		
49) Bromoform	9.484	173	5228	0.492	ppbv		97
50) 4-Methyl-2-Pentanone	5.771	43	8248m	0.466	ppbv		
51) 2-Hexanone	7.454	43	6283m	0.443	ppbv		
52) Tetrachloroethene	8.221	164	3151m	0.453	ppbv		
53) Toluene	6.933	91	9052m	0.468	ppbv		
54) 1,2-Dibromoethane	7.652	107	5705	0.494	ppbv		83
56) 1,1,1,2-Tetrachloroethane	8.924	131	5152	0.524	ppbv	#	92
57) Chlorobenzene	8.924	112	9173	0.548	ppbv	#	86
58) Ethyl Benzene	9.357	91	12427	0.446	ppbv		90
59) m/p-Xylene	9.552	91	20195m	0.865	ppbv		
60) o-Xylene	9.966	91	9976m	0.427	ppbv		
61) Styrene	9.872	104	3457m	0.396	ppbv		
62) Isopropylbenzene	10.545	105	14837	0.440	ppbv		95
63) 1,1,2,2-Tetrachloroethane	9.963	83	8135	0.537	ppbv		96
64) n-propylbenzene	10.992	120	3329m	0.405	ppbv		
65) tert-Butylbenzene	11.536	119	12655	0.421	ppbv		99
66) Benzyl Chloride	11.613	91	1317m	0.379	ppbv		
67) sec-Butylbenzene	11.769	105	17905	0.419	ppbv		97
69) p-Isopropyltoluene	11.927	119	15036	0.417	ppbv		94
70) n-Butylbenzene	12.283	91	15016	0.403	ppbv		93
71) 2-Chlorotoluene	10.905	91	11702	0.443	ppbv		99
72) 4-Ethyltoluene	11.128	105	10671	0.387	ppbv	#	91
73) 1,3,5-Trimethylbenzene	11.206	105	9808	0.405	ppbv		89
74) 1,2,4-Trimethylbenzene	11.539	105	13060	0.445	ppbv	#	83
75) 1,3-Dichlorobenzene	11.607	146	8127	0.498	ppbv		96
76) 1,4-Dichlorobenzene	11.675	146	7238	0.469	ppbv		96
77) 1,2-Dichlorobenzene	11.950	146	8141	0.509	ppbv		94
78) Hexachloro-1,3-Butadiene	13.886	225	8565	0.537	ppbv		99
79) Naphthalene	13.517	128	9735m	0.396	ppbv		
80) Naphthalene,2-methyl-	14.458	142	4153	0.226	ppbv		98
81) 1,2,4-Trichlorobenzene	13.445	180	4992	0.379	ppbv		98

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

Quantitation Report (QT Reviewed)

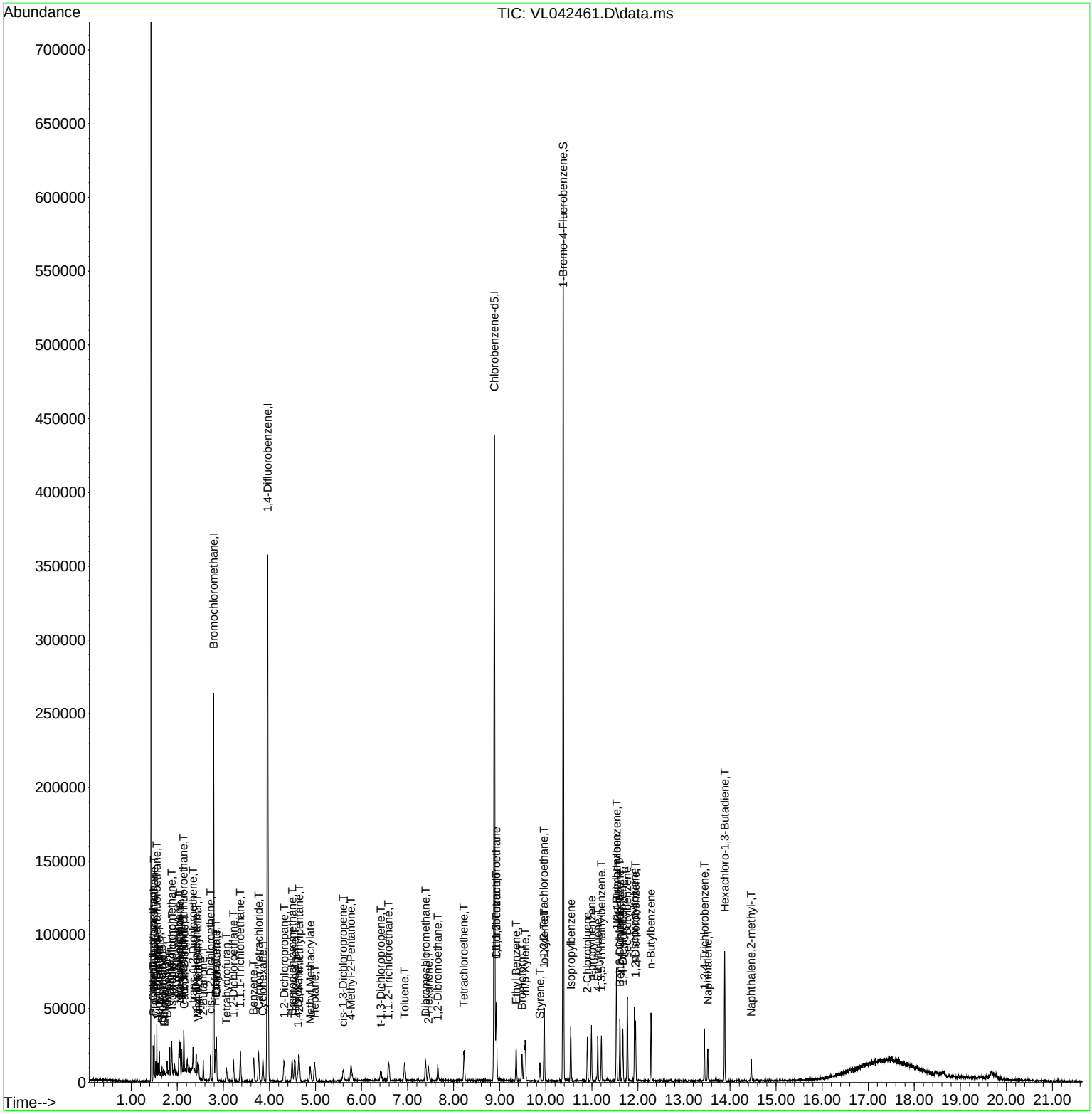
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042461.D
Acq On : 01 May 2025 10:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:42:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042462.D
Acq On : 01 May 2025 11:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:43:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	65449	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	186907	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	157618	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	143644	9.830	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.300%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	631	0.138	ppbv	# 53
32) 1,1,1-Trichloroethane	3.363	97	1860m	0.110	ppbv	
35) Carbon Tetrachloride	3.758	117	1493	0.092	ppbv	# 55
38) Trichloroethene	4.551	130	784m	0.117	ppbv	
52) Tetrachloroethene	8.221	164	710m	0.106	ppbv	
54) 1,2-Dibromoethane	7.665	107	1169m	0.105	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	1490	0.104	ppbv	# 75
79) Naphthalene	13.517	128	1135m	0.049	ppbv	

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

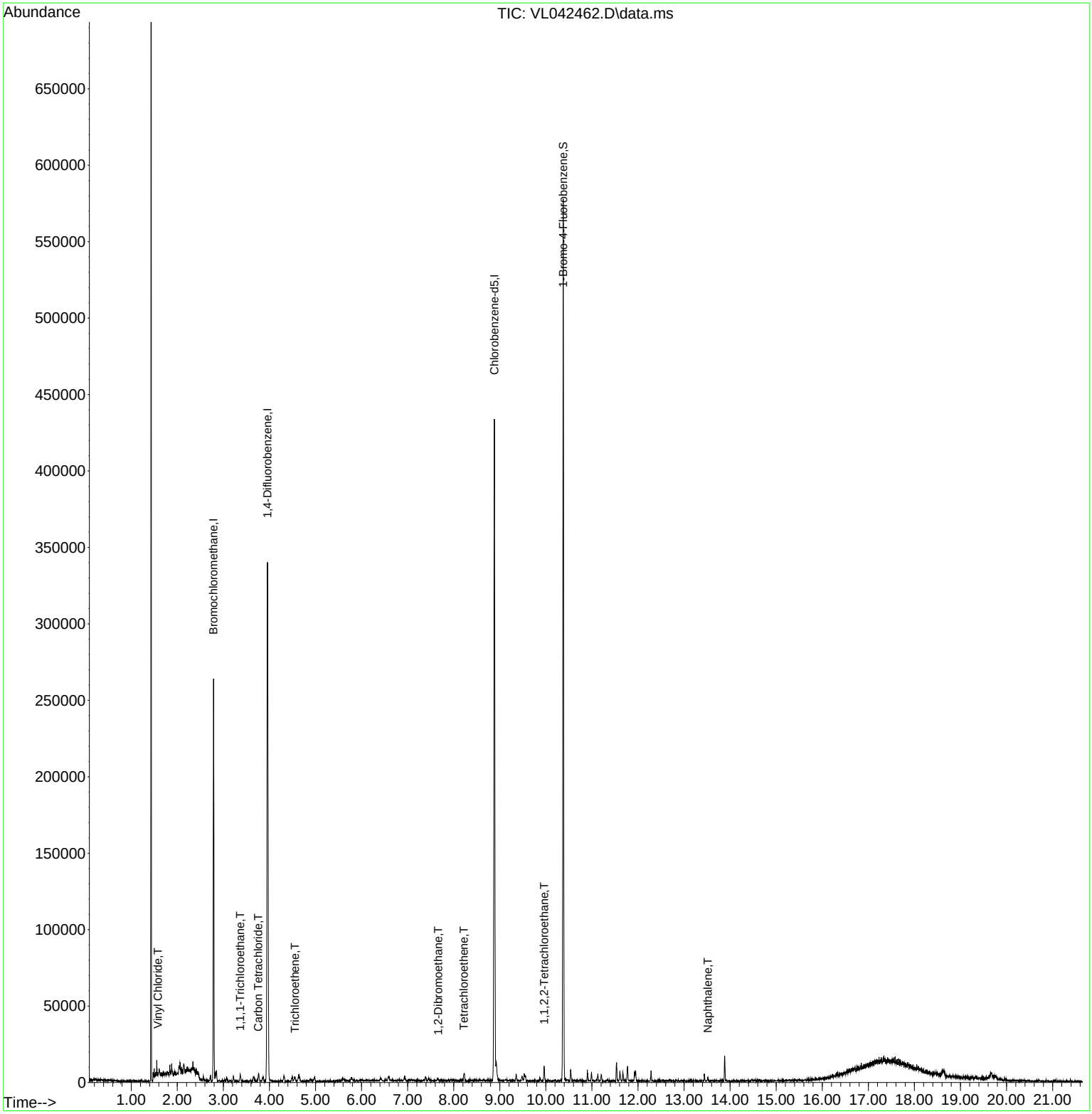
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042462.D
Acq On : 01 May 2025 11:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:43:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042465.D
Acq On : 01 May 2025 12:49
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	64314	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	178877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	157673	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	151837	10.387	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	158069	14.852	ppbv	99
3) Chlorodifluoromethane	1.476	51	154556	13.735	ppbv	100
4) Chloromethane	1.535	50	64267	14.447	ppbv	95
5) Vinyl Chloride	1.580	62	60873	13.592	ppbv	98
6) Bromomethane	1.667	94	31246	14.766	ppbv	87
7) Chloroethane	1.703	64	25181	15.227	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	131995	15.044	ppbv	99
9) Propene	1.486	41	49647	13.489	ppbv	99
10) Heptane	4.982	43	142235	14.898	ppbv	100
11) Trichlorofluoromethane	1.878	101	152655	16.082	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	115855	14.775	ppbv	96
13) Ethanol	1.722	45	8090	10.832	ppbv	98
14) Bromoethene	1.781	108	44928	15.519	ppbv	96
15) Acetone	1.836	43	141306	12.036	ppbv	99
16) 1,3-Butadiene	1.609	39	72455	13.992	ppbv	98
17) tert-Butyl alcohol	2.043	59	144935	14.012	ppbv	99
18) 1,1-Dichloroethene	2.033	96	52813	14.424	ppbv	98
19) Isopropyl Alcohol	1.887	45	86000	13.235	ppbv #	1
20) Methylene Chloride	2.062	84	46063	13.050	ppbv	94
21) Allyl Chloride	2.098	41	112451	14.893	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	62153	14.534	ppbv	100
23) Vinyl Acetate	2.464	43	169418	15.489	ppbv	99
24) 1,1-Dichloroethane	2.409	63	127567	14.622	ppbv	97
25) Ethyl Acetate	2.836	43	269372	14.329	ppbv	100
26) Hexane	2.826	57	119552	14.598	ppbv	97
27) Carbon Disulfide	2.150	76	150258	15.722	ppbv #	92
28) Methyl tert-Butyl Ether	2.441	73	71341	14.500	ppbv	99
29) Chloroform	2.849	83	221976	14.464	ppbv	99
30) Cyclohexane	3.859	84	101146	14.771	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	133735	13.997	ppbv	93
32) 1,1,1-Trichloroethane	3.370	97	234752	14.099	ppbv	99
34) 2-Butanone	2.557	43	174521	13.488	ppbv	97
35) Carbon Tetrachloride	3.765	117	242144	15.566	ppbv	99
36) Benzene	3.658	78	239352	14.179	ppbv	98
37) 1,2-Dichloroethane	3.221	62	190179	14.618	ppbv	98
38) Trichloroethene	4.551	130	95257	14.798	ppbv	94
39) 1,2-Dichloropropane	4.312	63	84414	13.349	ppbv	93
40) 1,4-Dioxane	4.584	88	38551	13.115	ppbv #	100
41) Tetrahydrofuran	3.056	42	86296	14.063	ppbv	98
42) Bromodichloromethane	4.493	83	242556	15.259	ppbv	99
43) Methyl Methacrylate	4.885	69	98279	15.639	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	401920	14.734	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	136762	16.529	ppbv	92

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042465.D
Acq On : 01 May 2025 12:49
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	154705m	15.749	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	99496	14.356	ppbv	93
48) Dibromochloromethane	7.393	129	180970	15.468	ppbv	98
49) Bromoform	9.487	173	152440	15.535	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	237985	14.550	ppbv	97
51) 2-Hexanone	7.438	43	197423	15.071	ppbv	99
52) Tetrachloroethene	8.228	164	85271	13.272	ppbv	90
53) Toluene	6.937	91	281731	15.768	ppbv	100
54) 1,2-Dibromoethane	7.655	107	154739	14.523	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.927	131	133410	14.326	ppbv	98
57) Chlorobenzene	8.927	112	218370	13.783	ppbv	99
58) Ethyl Benzene	9.358	91	414805	15.743	ppbv	98
59) m/p-Xylene	9.555	91	699743m	31.674	ppbv	
60) o-Xylene	9.966	91	350328	15.863	ppbv	100
61) Styrene	9.876	104	137720	16.686	ppbv	96
62) Isopropylbenzene	10.542	105	498619	15.629	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	209726	14.635	ppbv	99
64) n-propylbenzene	10.992	120	122452	15.759	ppbv	97
65) tert-Butylbenzene	11.536	119	443042	15.562	ppbv	97
66) Benzyl Chloride	11.617	91	60376	18.348	ppbv	97
67) sec-Butylbenzene	11.769	105	632600	15.636	ppbv	100
69) p-Isopropyltoluene	11.928	119	539860	15.837	ppbv	99
70) n-Butylbenzene	12.284	91	566780	16.084	ppbv	99
71) 2-Chlorotoluene	10.905	91	394227	15.755	ppbv	100
72) 4-Ethyltoluene	11.128	105	423746	16.250	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	362951	15.826	ppbv	96
74) 1,2,4-Trimethylbenzene	11.539	105	407416	14.683	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	225215	14.579	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	224505	15.357	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	216147	14.295	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	198112	13.121	ppbv	99
79) Naphthalene	13.517	128	392900	16.888	ppbv	98
80) Naphthalene,2-methyl-	14.459	142	316493	18.232	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	195942	15.728	ppbv	97

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

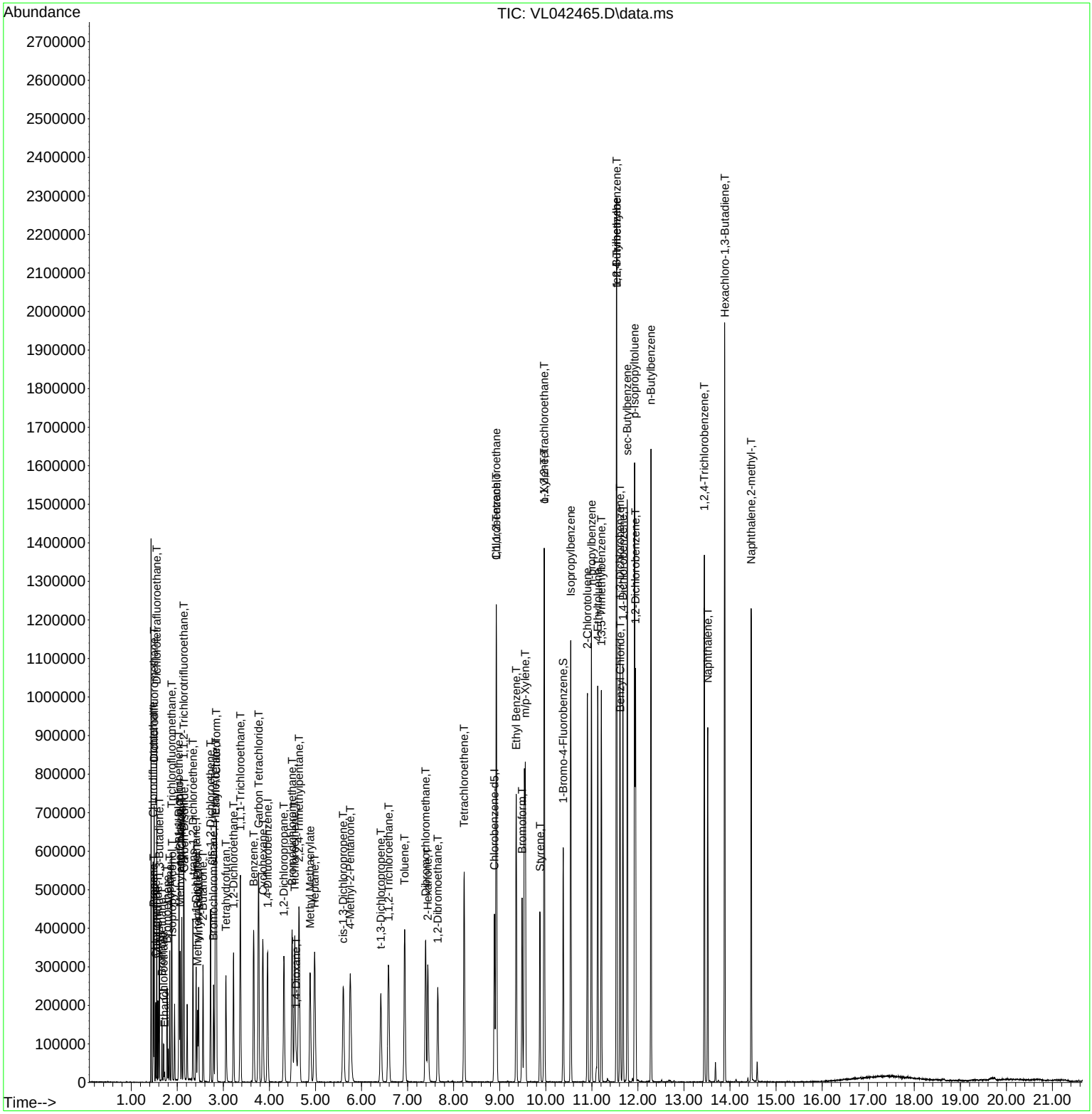
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042465.D
Acq On : 01 May 2025 12:49
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042466.D
Acq On : 01 May 2025 14:10
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:46:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	66546	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	186737	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	161050	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	148088	9.918	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	151	0.033	ppbv	# 87
32) 1,1,1-Trichloroethane	3.370	97	595m	0.035	ppbv	
35) Carbon Tetrachloride	3.771	117	653m	0.040	ppbv	
38) Trichloroethene	4.551	130	135	0.020	ppbv	# 40
52) Tetrachloroethene	8.231	164	285m	0.042	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.973	83	551m	0.038	ppbv	

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

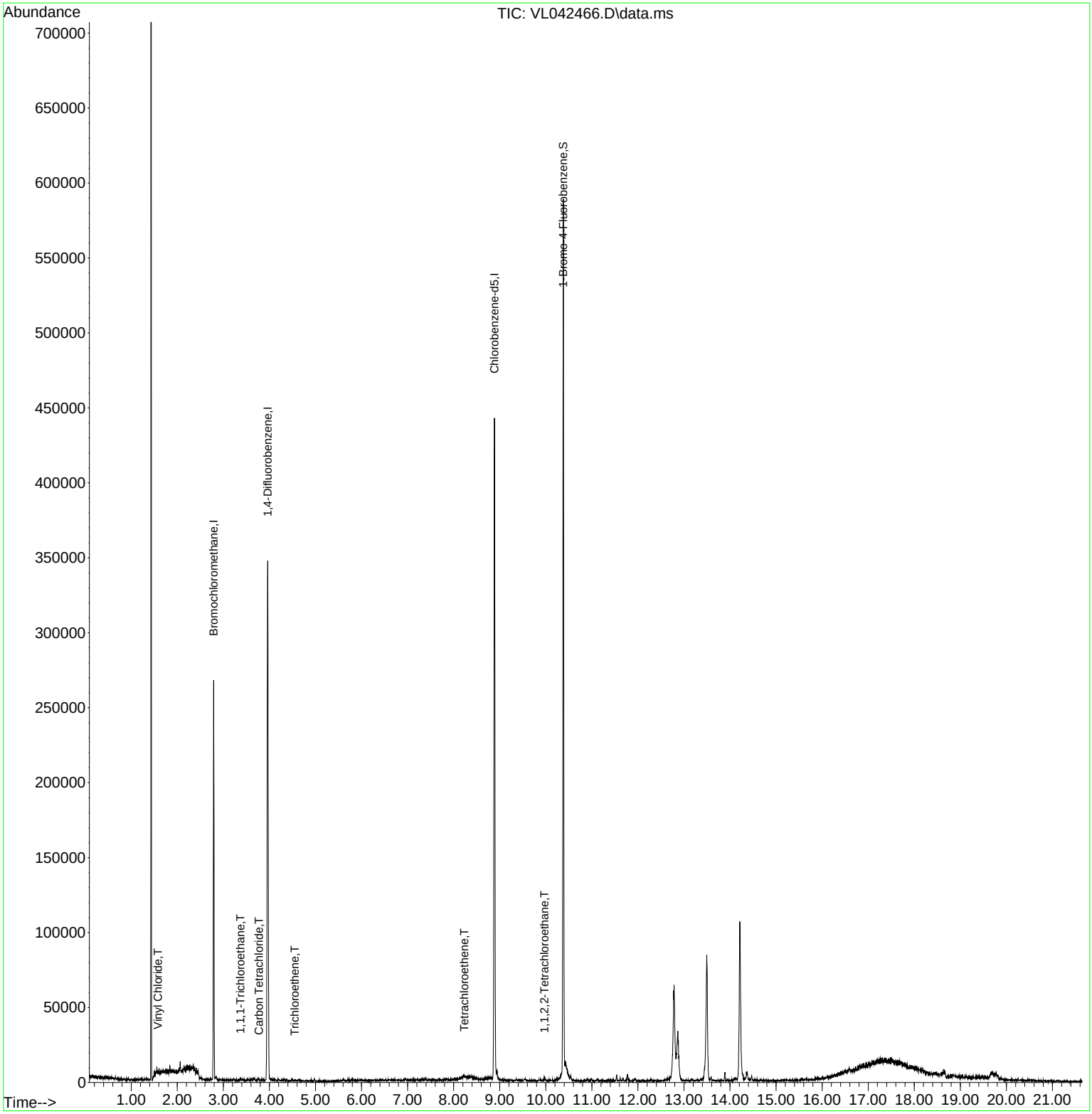
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042466.D
Acq On : 01 May 2025 14:10
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:46:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	63539	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	183679	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	156982	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	150522	10.342	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	108782	10.346	ppbv	97
3) Chlorodifluoromethane	1.476	51	110290	9.921	ppbv	98
4) Chloromethane	1.534	50	43950	10.001	ppbv	96
5) Vinyl Chloride	1.580	62	41181	9.307	ppbv	99
6) Bromomethane	1.667	94	21021	10.055	ppbv	91
7) Chloroethane	1.706	64	16630	10.179	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	89345	10.307	ppbv	99
9) Propene	1.486	41	36920	10.153	ppbv	97
10) Heptane	4.985	43	94631	10.033	ppbv	95
11) Trichlorofluoromethane	1.878	101	100713	10.380	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	81143	10.474	ppbv	99
13) Ethanol	1.722	45	5736	7.773	ppbv	99
14) Bromoethene	1.780	108	30094	10.522	ppbv	97
15) Acetone	1.835	43	95460	8.230	ppbv	98
16) 1,3-Butadiene	1.609	39	49566	9.689	ppbv	100
17) tert-Butyl alcohol	2.043	59	102047	9.986	ppbv	100
18) 1,1-Dichloroethene	2.033	96	35784	9.892	ppbv	98
19) Isopropyl Alcohol	1.887	45	60977	9.499	ppbv	99
20) Methylene Chloride	2.062	84	31212	8.951	ppbv	94
21) Allyl Chloride	2.098	41	73365	9.835	ppbv	94
22) trans-1,2-Dichloroethene	2.340	96	42922	10.160	ppbv	96
23) Vinyl Acetate	2.463	43	113131	10.220	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	89117	10.340	ppbv	97
25) Ethyl Acetate	2.839	43	186185	10.025	ppbv	99
26) Hexane	2.826	57	83132	10.275	ppbv	96
27) Carbon Disulfide	2.149	76	100196	10.612	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	48326	9.942	ppbv	100
29) Chloroform	2.852	83	152381	10.050	ppbv	96
30) Cyclohexane	3.858	84	70581	10.434	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	95793	10.148	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	161465	9.816	ppbv	99
34) 2-Butanone	2.560	43	125883	9.475	ppbv	97
35) Carbon Tetrachloride	3.764	117	166814	9.998	ppbv	97
36) Benzene	3.658	78	171384	9.888	ppbv	98
37) 1,2-Dichloroethane	3.221	62	130063	9.736	ppbv	100
38) Trichloroethene	4.551	130	65940	9.976	ppbv	96
39) 1,2-Dichloropropane	4.315	63	60010	9.248	ppbv	95
40) 1,4-Dioxane	4.583	88	28306m	9.316	ppbv	
41) Tetrahydrofuran	3.059	42	59604	9.440	ppbv	98
42) Bromodichloromethane	4.489	83	163210	9.999	ppbv	95
43) Methyl Methacrylate	4.881	69	67516	10.438	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	277217	9.867	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	89638m	10.563	ppbv	

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	104665	10.378	ppbv		97
47) 1,1,2-Trichloroethane	6.584	97	67821	9.530	ppbv		95
48) Dibromochloromethane	7.393	129	121381	10.103	ppbv		97
49) Bromoform	9.487	173	102150	10.138	ppbv		100
50) 4-Methyl-2-Pentanone	5.752	43	159280	9.478	ppbv		99
51) 2-Hexanone	7.438	43	126396	9.407	ppbv	#	98
52) Tetrachloroethene	8.228	164	58272	8.832	ppbv		96
53) Toluene	6.940	91	191922	10.461	ppbv		99
54) 1,2-Dibromoethane	7.658	107	105149	9.664	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.927	131	92337	9.959	ppbv		97
57) Chlorobenzene	8.927	112	148759	9.431	ppbv		92
58) Ethyl Benzene	9.357	91	280660	10.698	ppbv		99
59) m/p-Xylene	9.555	91	468984m	21.324	ppbv		
60) o-Xylene	9.966	91	238347	10.824	ppbv		97
61) Styrene	9.872	104	91128	11.090	ppbv		97
62) Isopropylbenzene	10.542	105	337992	10.641	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	140306	9.242	ppbv		100
64) n-propylbenzene	10.992	120	79983	10.303	ppbv		99
65) tert-Butylbenzene	11.536	119	302506	10.672	ppbv		99
66) Benzyl Chloride	11.617	91	34933	10.663	ppbv		97
67) sec-Butylbenzene	11.769	105	425444	10.562	ppbv		99
69) p-Isopropyltoluene	11.927	119	363563	10.712	ppbv		98
70) n-Butylbenzene	12.283	91	371369	10.585	ppbv		99
71) 2-Chlorotoluene	10.905	91	264063	10.599	ppbv		99
72) 4-Ethyltoluene	11.128	105	287375	11.069	ppbv		99
73) 1,3,5-Trimethylbenzene	11.206	105	247128	10.823	ppbv		93
74) 1,2,4-Trimethylbenzene	11.539	105	278306	10.074	ppbv		98
75) 1,3-Dichlorobenzene	11.610	146	150026	9.754	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	151740	10.425	ppbv		97
77) 1,2-Dichlorobenzene	11.950	146	146314	9.719	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	133688	8.893	ppbv		99
79) Naphthalene	13.516	128	251318	10.806	ppbv		98
80) Naphthalene,2-methyl-	14.458	142	198604	11.489	ppbv		99
81) 1,2,4-Trichlorobenzene	13.442	180	129406	10.433	ppbv		98

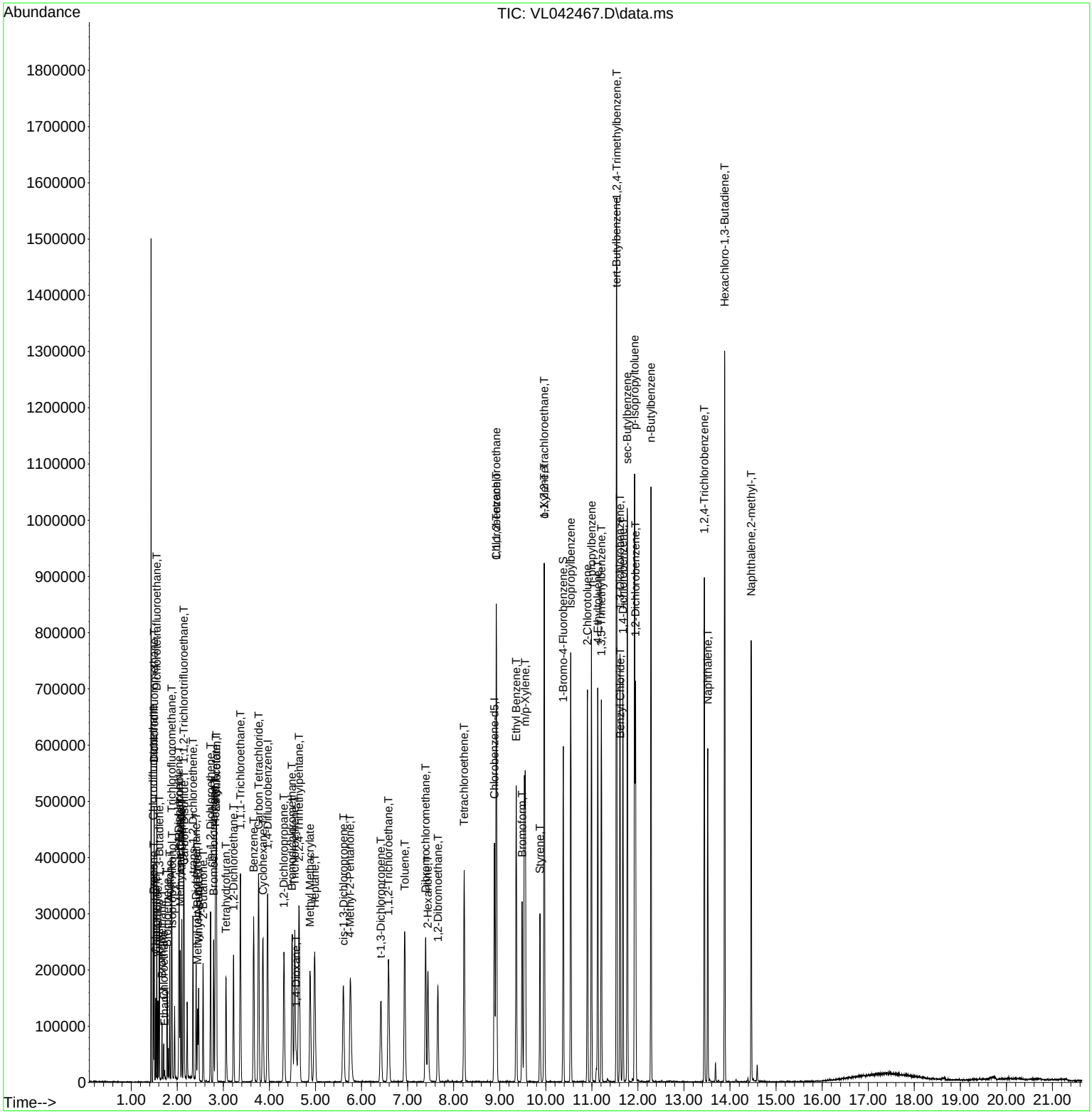
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

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



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	1.655	1.712	-3.4	104	0.00
3		Chlorodifluoromethane	1.750	1.736	0.8	98	0.00
4		Chloromethane	0.692	0.692	0.0	99	0.00
5	T	Vinyl Chloride	0.696	0.648	6.9	102	0.00
6	T	Bromomethane	0.329	0.331	-0.6	103	0.00
7		Chloroethane	0.257	0.262	-1.9	101	0.00
8	T	Dichlorotetrafluoroethane	1.364	1.406	-3.1	101	0.00
9	T	Propene	0.572	0.581	-1.6	98	0.00
10	T	Heptane	1.484	1.489	-0.3	92	0.00
11	T	Trichlorofluoromethane	1.527	1.585	-3.8	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.219	1.277	-4.8	103	0.00
13		Ethanol	0.116	0.090	22.4	101	0.00
14	T	Bromoethene	0.450	0.474	-5.3	106	0.00
15	T	Acetone	1.826	1.502	17.7	101	0.00
16	T	1,3-Butadiene	0.805	0.780	3.1	102	0.00
17		tert-Butyl alcohol	1.608	1.606	0.1	96	0.00
18	T	1,1-Dichloroethene	0.569	0.563	1.1	101	0.00
19	T	Isopropyl Alcohol	1.010	0.960	5.0	98	0.00
20	T	Methylene Chloride	0.549	0.491	10.6	97	0.00
21	T	Allyl Chloride	1.174	1.155	1.6	95	0.00
22	T	trans-1,2-Dichloroethene	0.665	0.676	-1.7	109	0.00
23	T	Vinyl Acetate	1.742	1.780	-2.2	92	0.00
24	T	1,1-Dichloroethane	1.357	1.403	-3.4	104	0.00
25	T	Ethyl Acetate	2.923	2.930	-0.2	92	0.00
26	T	Hexane	1.273	1.308	-2.7	96	0.00
27	T	Carbon Disulfide	1.486	1.577	-6.1	99	0.00
28	T	Methyl tert-Butyl Ether	0.765	0.761	0.5	101	0.00
29	T	Chloroform	2.386	2.398	-0.5	97	0.00
30	T	Cyclohexane	1.065	1.111	-4.3	95	0.00
31	T	cis-1,2-Dichloroethene	1.486	1.508	-1.5	100	0.00
32	T	1,1,1-Trichloroethane	2.589	2.541	1.9	99	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34	T	2-Butanone	0.723	0.685	5.3	95	0.00
35	T	Carbon Tetrachloride	0.908	0.908	0.0	100	0.00
36	T	Benzene	0.944	0.933	1.2	95	0.00
37	T	1,2-Dichloroethane	0.727	0.708	2.6	97	0.00
38	T	Trichloroethene	0.360	0.359	0.3	94	0.00
39	T	1,2-Dichloropropane	0.353	0.327	7.4	94	0.00
40	T	1,4-Dioxane	0.165	0.154	6.7	93	0.00
41	T	Tetrahydrofuran	0.344	0.325	5.5	91	0.00
42	T	Bromodichloromethane	0.889	0.889	0.0	97	0.00
43		Methyl Methacrylate	0.352	0.368	-4.5	92	0.00
44	T	2,2,4-Trimethylpentane	1.530	1.509	1.4	96	0.00
45	T	t-1,3-Dichloropropene	0.462	0.488	-5.6	93	0.00
46	T	cis-1,3-Dichloropropene	0.549	0.570	-3.8	94	0.00
47	T	1,1,2-Trichloroethane	0.387	0.369	4.7	94	0.00
48	T	Dibromochloromethane	0.654	0.661	-1.1	96	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.549	0.556	-1.3	96	0.00
50	T	4-Methyl-2-Pentanone	0.915	0.867	5.2	91	0.00
51	T	2-Hexanone	0.731	0.688	5.9	87	0.00
52	T	Tetrachloroethene	0.359	0.317	11.7	95	0.00
53	T	Toluene	0.999	1.045	-4.6	94	0.00
54	T	1,2-Dibromoethane	0.592	0.572	3.4	94	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56		1,1,1,2-Tetrachloroethane	0.591	0.588	0.5	98	0.00
57	T	Chlorobenzene	1.005	0.948	5.7	95	0.00
58	T	Ethyl Benzene	1.671	1.788	-7.0	93	0.00
59	T	m/p-Xylene	1.401	1.494	-6.6	94	0.03
60	T	o-Xylene	1.403	1.518	-8.2	96	0.00
61	T	Styrene	0.523	0.580	-10.9	90	0.00
62		Isopropylbenzene	2.023	2.153	-6.4	95	0.00
63	T	1,1,2,2-Tetrachloroethane	0.967	0.894	7.5	95	0.00
64		n-propylbenzene	0.495	0.510	-3.0	95	0.00
65		tert-Butylbenzene	1.806	1.927	-6.7	96	0.00
66	T	Benzyl Chloride	0.209	0.223	-6.7	87	0.00
67		sec-Butylbenzene	2.566	2.710	-5.6	96	0.00
68	S	1-Bromo-4-Fluorobenzene	0.927	0.959	-3.5	91	0.00
69		p-Isopropyltoluene	2.162	2.316	-7.1	97	0.00
70		n-Butylbenzene	2.235	2.366	-5.9	97	0.00
71		2-Chlorotoluene	1.587	1.682	-6.0	95	0.00
72	T	4-Ethyltoluene	1.654	1.831	-10.7	96	0.00
73	T	1,3,5-Trimethylbenzene	1.455	1.574	-8.2	96	0.00
74	T	1,2,4-Trimethylbenzene	1.760	1.773	-0.7	97	0.00
75	T	1,3-Dichlorobenzene	0.980	0.956	2.4	96	0.00
76	T	1,4-Dichlorobenzene	0.927	0.967	-4.3	96	0.00
77	T	1,2-Dichlorobenzene	0.959	0.932	2.8	97	0.00
78	T	Hexachloro-1,3-Butadiene	0.958	0.852	11.1	99	0.00
79	T	Naphthalene	1.482	1.601	-8.0	94	0.00
80	T	Naphthalene,2-methyl-	1.101	1.265	-14.9	97	0.00
81	T	1,2,4-Trichlorobenzene	0.790	0.824	-4.3	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	10.000	10.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	10.000	10.346	-3.5	104	0.00
3		Chlorodifluoromethane	10.000	9.921	0.8	98	0.00
4		Chloromethane	10.000	10.001	-0.0	99	0.00
5	T	Vinyl Chloride	10.000	9.307	6.9	102	0.00
6	T	Bromomethane	10.000	10.055	-0.5	103	0.00
7		Chloroethane	10.000	10.179	-1.8	101	0.00
8	T	Dichlorotetrafluoroethane	10.000	10.307	-3.1	101	0.00
9	T	Propene	10.000	10.153	-1.5	98	0.00
10	T	Heptane	10.000	10.033	-0.3	92	0.00
11	T	Trichlorofluoromethane	10.000	10.380	-3.8	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	10.474	-4.7	103	0.00
13		Ethanol	10.000	7.773	22.3	101	0.00
14	T	Bromoethene	10.000	10.522	-5.2	106	0.00
15	T	Acetone	10.000	8.230	17.7	101	0.00
16	T	1,3-Butadiene	10.000	9.689	3.1	102	0.00
17		tert-Butyl alcohol	10.000	9.986	0.1	96	0.00
18	T	1,1-Dichloroethene	10.000	9.892	1.1	101	0.00
19	T	Isopropyl Alcohol	10.000	9.499	5.0	98	0.00
20	T	Methylene Chloride	10.000	8.951	10.5	97	0.00
21	T	Allyl Chloride	10.000	9.835	1.6	95	0.00
22	T	trans-1,2-Dichloroethene	10.000	10.160	-1.6	109	0.00
23	T	Vinyl Acetate	10.000	10.220	-2.2	92	0.00
24	T	1,1-Dichloroethane	10.000	10.340	-3.4	104	0.00
25	T	Ethyl Acetate	10.000	10.025	-0.3	92	0.00
26	T	Hexane	10.000	10.275	-2.8	96	0.00
27	T	Carbon Disulfide	10.000	10.612	-6.1	99	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.942	0.6	101	0.00
29	T	Chloroform	10.000	10.050	-0.5	97	0.00
30	T	Cyclohexane	10.000	10.434	-4.3	95	0.00
31	T	cis-1,2-Dichloroethene	10.000	10.148	-1.5	100	0.00
32	T	1,1,1-Trichloroethane	10.000	9.816	1.8	99	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34	T	2-Butanone	10.000	9.475	5.3	95	0.00
35	T	Carbon Tetrachloride	10.000	9.998	0.0	100	0.00
36	T	Benzene	10.000	9.888	1.1	95	0.00
37	T	1,2-Dichloroethane	10.000	9.736	2.6	97	0.00
38	T	Trichloroethene	10.000	9.976	0.2	94	0.00
39	T	1,2-Dichloropropane	10.000	9.248	7.5	94	0.00
40	T	1,4-Dioxane	10.000	9.316	6.8	93	0.00
41	T	Tetrahydrofuran	10.000	9.440	5.6	91	0.00
42	T	Bromodichloromethane	10.000	9.999	0.0	97	0.00
43		Methyl Methacrylate	10.000	10.438	-4.4	92	0.00
44	T	2,2,4-Trimethylpentane	10.000	9.867	1.3	96	0.00
45	T	t-1,3-Dichloropropene	10.000	10.563	-5.6	93	0.00
46	T	cis-1,3-Dichloropropene	10.000	10.378	-3.8	94	0.00
47	T	1,1,2-Trichloroethane	10.000	9.530	4.7	94	0.00
48	T	Dibromochloromethane	10.000	10.103	-1.0	96	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	Bromoform	10.000	10.138	-1.4	96	0.00
50	T	4-Methyl-2-Pentanone	10.000	9.478	5.2	91	0.00
51	T	2-Hexanone	10.000	9.407	5.9	87	0.00
52	T	Tetrachloroethene	10.000	8.832	11.7	95	0.00
53	T	Toluene	10.000	10.461	-4.6	94	0.00
54	T	1,2-Dibromoethane	10.000	9.664	3.4	94	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56		1,1,1,2-Tetrachloroethane	10.000	9.959	0.4	98	0.00
57	T	Chlorobenzene	10.000	9.431	5.7	95	0.00
58	T	Ethyl Benzene	10.000	10.698	-7.0	93	0.00
59	T	m/p-Xylene	20.000	21.324	-6.6	94	0.03
60	T	o-Xylene	10.000	10.824	-8.2	96	0.00
61	T	Styrene	10.000	11.090	-10.9	90	0.00
62		Isopropylbenzene	10.000	10.641	-6.4	95	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	9.242	7.6	95	0.00
64		n-propylbenzene	10.000	10.303	-3.0	95	0.00
65		tert-Butylbenzene	10.000	10.672	-6.7	96	0.00
66	T	Benzyl Chloride	10.000	10.663	-6.6	87	0.00
67		sec-Butylbenzene	10.000	10.562	-5.6	96	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.342	-3.4	91	0.00
69		p-Isopropyltoluene	10.000	10.712	-7.1	97	0.00
70		n-Butylbenzene	10.000	10.585	-5.9	97	0.00
71		2-Chlorotoluene	10.000	10.599	-6.0	95	0.00
72	T	4-Ethyltoluene	10.000	11.069	-10.7	96	0.00
73	T	1,3,5-Trimethylbenzene	10.000	10.823	-8.2	96	0.00
74	T	1,2,4-Trimethylbenzene	10.000	10.074	-0.7	97	0.00
75	T	1,3-Dichlorobenzene	10.000	9.754	2.5	96	0.00
76	T	1,4-Dichlorobenzene	10.000	10.425	-4.3	96	0.00
77	T	1,2-Dichlorobenzene	10.000	9.719	2.8	97	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	8.893	11.1	99	0.00
79	T	Naphthalene	10.000	10.806	-8.1	94	0.00
80	T	Naphthalene,2-methyl-	10.000	11.489	-14.9	97	0.00
81	T	1,2,4-Trichlorobenzene	10.000	10.433	-4.3	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

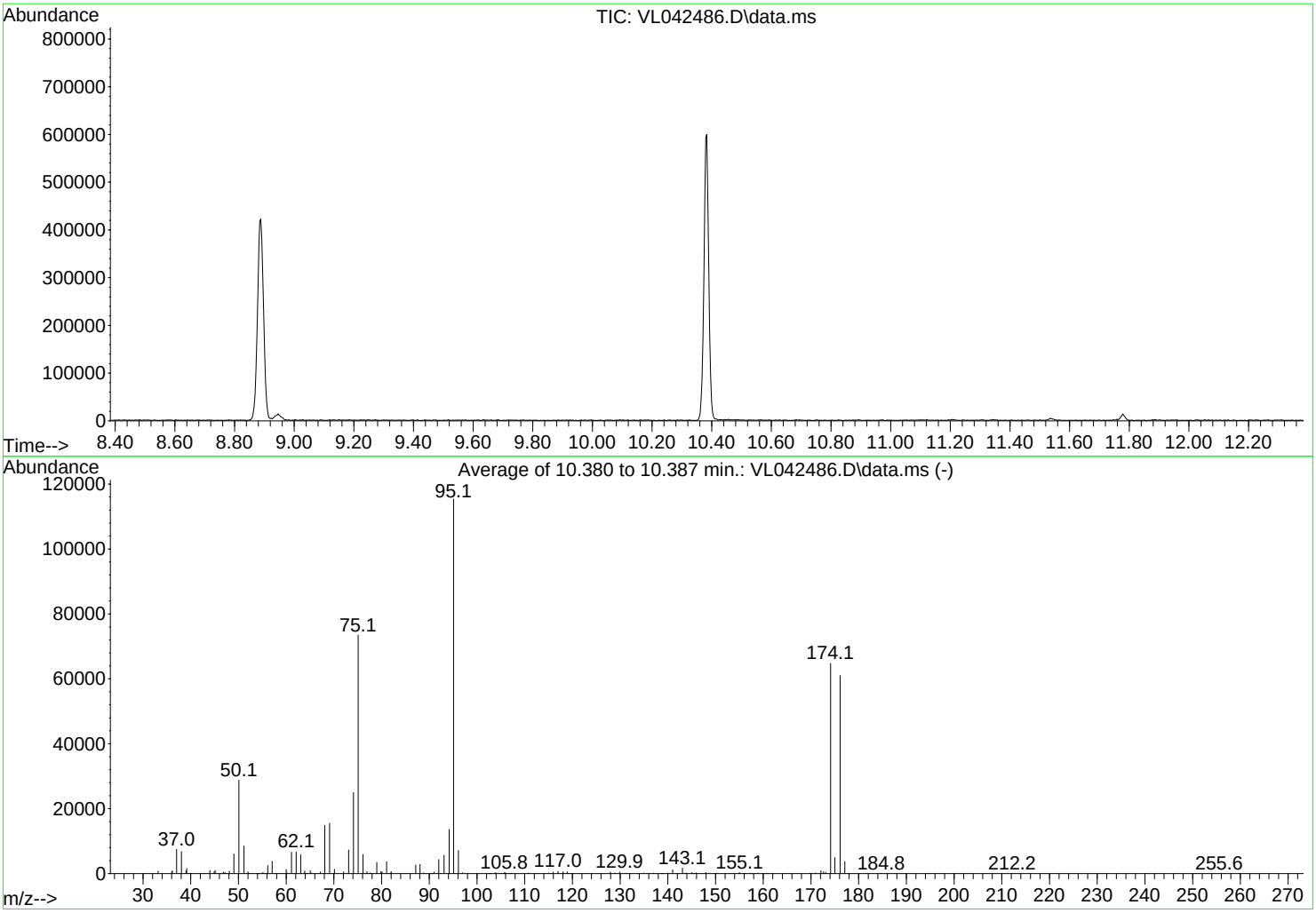
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042486.D
Acq On : 06 May 2025 08:16
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

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



AutoFind: Scans 3180, 3181, 3182; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.9	28768	PASS
75	95	30	66	63.6	73411	PASS
95	95	100	100	100.0	115408	PASS
96	95	5	9	6.2	7151	PASS
173	174	0.00	2	0.6	392	PASS
174	95	50	120	56.1	64757	PASS
175	174	4	9	7.6	4952	PASS
176	174	93	101	94.3	61040	PASS
177	176	5	9	6.1	3717	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/07/2025
Supervised By :Mahesh Dadoda 05/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	69320	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	188157	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	161366	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	165339	11.051	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 110.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	131525	11.466	ppbv	96
3) Chlorodifluoromethane	1.477	51	119859	9.883	ppbv	98
4) Chloromethane	1.535	50	51848	10.814	ppbv	91
5) Vinyl Chloride	1.580	62	47536	9.847	ppbv	95
6) Bromomethane	1.667	94	25689	11.263	ppbv	99
7) Chloroethane	1.706	64	18985	10.651	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	105839	11.192	ppbv	97
9) Propene	1.486	41	34471	8.689	ppbv	96
10) Heptane	4.982	43	103210	10.030	ppbv	96
11) Trichlorofluoromethane	1.878	101	123855	11.700	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.140	101	93934	11.114	ppbv	98
13) Ethanol	1.722	45	6351	7.889	ppbv	98
14) Bromoethene	1.784	108	36335	11.645	ppbv	92
15) Acetone	1.836	43	111680	8.825	ppbv	99
16) 1,3-Butadiene	1.609	39	55608	9.963	ppbv	95
17) tert-Butyl alcohol	2.043	59	118491	10.628	ppbv	97
18) 1,1-Dichloroethene	2.036	96	41887	10.614	ppbv	98
19) Isopropyl Alcohol	1.888	45	69030	9.856	ppbv	100
20) Methylene Chloride	2.062	84	37393	9.829	ppbv	97
21) Allyl Chloride	2.098	41	84167	10.342	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	47256	10.253	ppbv	95
23) Vinyl Acetate	2.464	43	118463	9.809	ppbv	97
24) 1,1-Dichloroethane	2.409	63	100156	10.651	ppbv	99
25) Ethyl Acetate	2.839	43	201213	9.931	ppbv	99
26) Hexane	2.826	57	88211	9.993	ppbv	97
27) Carbon Disulfide	2.150	76	120690	11.716	ppbv	93
28) Methyl tert-Butyl Ether	2.441	73	51653	9.740	ppbv	98
29) Chloroform	2.852	83	172606	10.435	ppbv	93
30) Cyclohexane	3.859	84	74929	10.153	ppbv	98
31) cis-1,2-Dichloroethene	2.723	61	97864	9.503	ppbv	93
32) 1,1,1-Trichloroethane	3.370	97	182668	10.179	ppbv	99
34) 2-Butanone	2.561	43	131262	9.645	ppbv	97
35) Carbon Tetrachloride	3.765	117	190178	11.127	ppbv	100
36) Benzene	3.661	78	181690	10.233	ppbv	99
37) 1,2-Dichloroethane	3.221	62	146010	10.669	ppbv	98
38) Trichloroethene	4.555	130	71976	10.630	ppbv	90
39) 1,2-Dichloropropane	4.322	63	63612	9.570	ppbv #	87
40) 1,4-Dioxane	4.590	88	29247	9.396	ppbv #	100
41) Tetrahydrofuran	3.059	42	64241	9.932	ppbv	98
42) Bromodichloromethane	4.496	83	185825	11.113	ppbv	91
43) Methyl Methacrylate	4.891	69	72618	10.960	ppbv	96
44) 2,2,4-Trimethylpentane	4.645	57	311522	10.824	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	93178	10.719	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/07/2025
Supervised By :Mahesh Dadoda 05/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	108203	10.473	ppbv	95
47) 1,1,2-Trichloroethane	6.587	97	75237	10.320	ppbv	93
48) Dibromochloromethane	7.393	129	134135	10.899	ppbv	99
49) Bromoform	9.490	173	119371	11.565	ppbv	98
50) 4-Methyl-2-Pentanone	5.759	43	177017	10.283	ppbv	96
51) 2-Hexanone	7.442	43	141871	10.308	ppbv	99
52) Tetrachloroethene	8.228	164	63220	9.354	ppbv	86
53) Toluene	6.940	91	205094	10.913	ppbv	99
54) 1,2-Dibromoethane	7.659	107	117565	10.548	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.934	131	104985	11.016	ppbv	98
57) Chlorobenzene	8.927	112	169084	10.428	ppbv	92
58) Ethyl Benzene	9.361	91	308243	11.431	ppbv	100
59) m/p-Xylene	9.555	91	540767m	23.920	ppbv	
60) o-Xylene	9.969	91	271925	12.013	ppbv	99
61) Styrene	9.876	104	99907	11.828	ppbv	97
62) Isopropylbenzene	10.546	105	384743	11.784	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	167724	10.748	ppbv	99
64) n-propylbenzene	10.992	120	91898	11.517	ppbv	95
65) tert-Butylbenzene	11.536	119	349935	12.010	ppbv	98
66) Benzyl Chloride	11.620	91	43100	12.798	ppbv	99
67) sec-Butylbenzene	11.772	105	496533	11.992	ppbv	99
69) p-Isopropyltoluene	11.931	119	416243	11.931	ppbv	99
70) n-Butylbenzene	12.287	91	437958	12.144	ppbv	100
71) 2-Chlorotoluene	10.905	91	303775	11.862	ppbv	100
72) 4-Ethyltoluene	11.131	105	331569	12.424	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	287473	12.248	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	324889	11.441	ppbv	94
75) 1,3-Dichlorobenzene	11.610	146	175086	11.074	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	178127	11.906	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	170747	11.034	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	152349	9.859	ppbv	99
79) Naphthalene	13.517	128	292585	12.239	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	225180	12.673	ppbv	99
81) 1,2,4-Trichlorobenzene	13.446	180	142121	11.147	ppbv	98

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

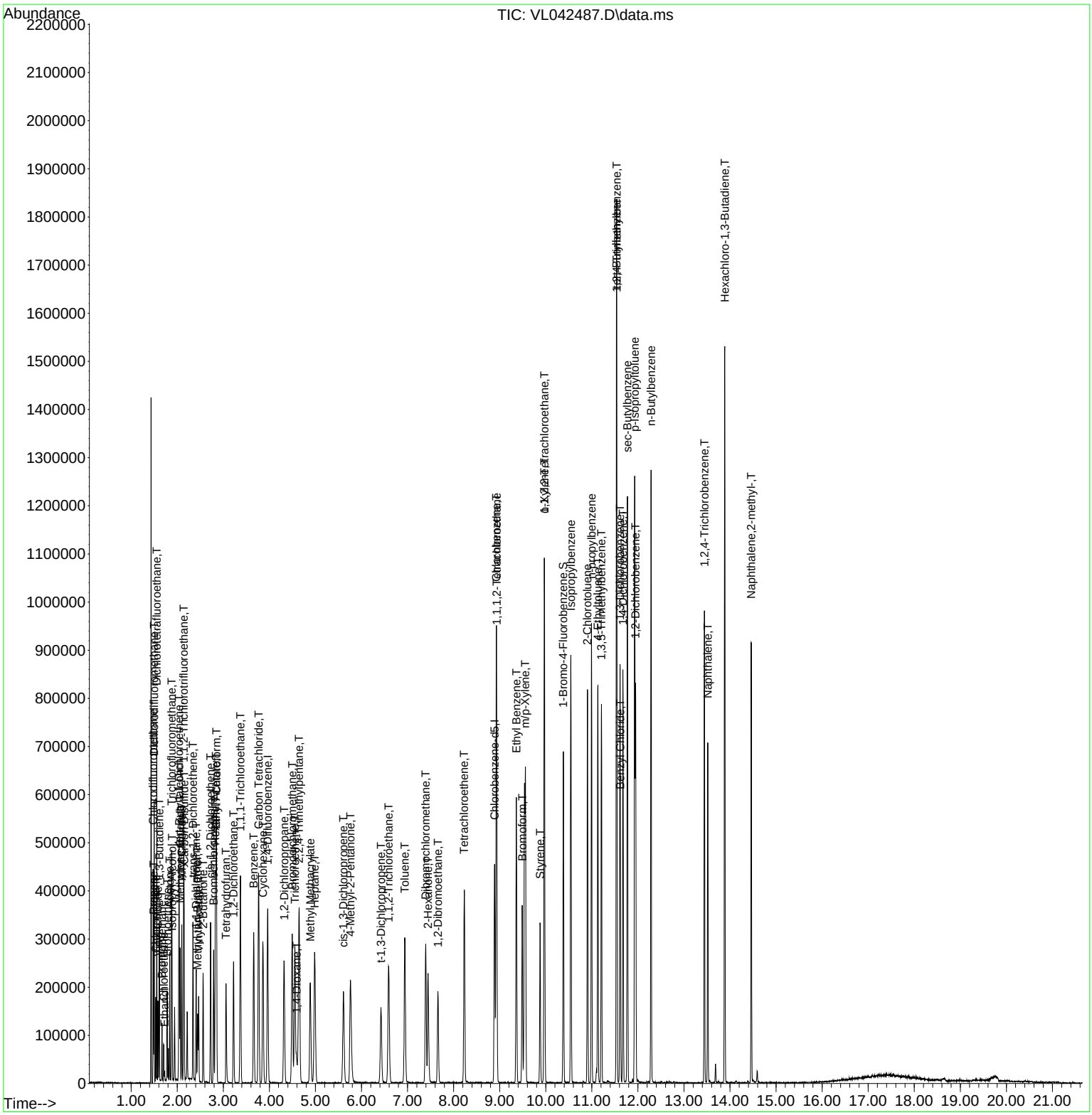
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2025
Supervised By :Mahesh Dadoda 05/09/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	97	0.00
2	T	Dichlorodifluoromethane	1.655	1.897	-14.6	125	0.00
3		Chlorodifluoromethane	1.750	1.729	1.2	107	0.00
4		Chloromethane	0.692	0.748	-8.1	116	0.00
5	T	Vinyl Chloride	0.696	0.686	1.4	117	0.00
6	T	Bromomethane	0.329	0.371	-12.8	126	0.00
7		Chloroethane	0.257	0.274	-6.6	115	0.00
8	T	Dichlorotetrafluoroethane	1.364	1.527	-12.0	120	0.00
9	T	Propene	0.572	0.497	13.1	92	0.00
10	T	Heptane	1.484	1.489	-0.3	100	0.00
11	T	Trichlorofluoromethane	1.527	1.787	-17.0	126	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.219	1.355	-11.2	120	0.00
13		Ethanol	0.116	0.092	20.7	112	0.00
14	T	Bromoethene	0.450	0.524	-16.4	128	0.00
15	T	Acetone	1.826	1.611	11.8	119	0.00
16	T	1,3-Butadiene	0.805	0.802	0.4	114	0.00
17		tert-Butyl alcohol	1.608	1.709	-6.3	111	0.00
18	T	1,1-Dichloroethene	0.569	0.604	-6.2	119	0.00
19	T	Isopropyl Alcohol	1.010	0.996	1.4	110	0.00
20	T	Methylene Chloride	0.549	0.539	1.8	117	0.00
21	T	Allyl Chloride	1.174	1.214	-3.4	110	0.00
22	T	trans-1,2-Dichloroethene	0.665	0.682	-2.6	120	0.00
23	T	Vinyl Acetate	1.742	1.709	1.9	96	0.00
24	T	1,1-Dichloroethane	1.357	1.445	-6.5	117	0.00
25	T	Ethyl Acetate	2.923	2.903	0.7	100	0.00
26	T	Hexane	1.273	1.273	0.0	102	0.00
27	T	Carbon Disulfide	1.486	1.741	-17.2	119	0.00
28	T	Methyl tert-Butyl Ether	0.765	0.745	2.6	108	0.00
29	T	Chloroform	2.386	2.490	-4.4	110	0.00
30	T	Cyclohexane	1.065	1.081	-1.5	100	0.00
31	T	cis-1,2-Dichloroethene	1.486	1.412	5.0	102	0.00
32	T	1,1,1-Trichloroethane	2.589	2.635	-1.8	112	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34	T	2-Butanone	0.723	0.698	3.5	99	0.00
35	T	Carbon Tetrachloride	0.908	1.011	-11.3	114	0.00
36	T	Benzene	0.944	0.966	-2.3	101	0.00
37	T	1,2-Dichloroethane	0.727	0.776	-6.7	109	0.00
38	T	Trichloroethene	0.360	0.383	-6.4	103	0.01
39	T	1,2-Dichloropropane	0.353	0.338	4.2	100	0.01
40	T	1,4-Dioxane	0.165	0.155	6.1	97	0.00
41	T	Tetrahydrofuran	0.344	0.341	0.9	98	0.00
42	T	Bromodichloromethane	0.889	0.988	-11.1	110	0.01
43		Methyl Methacrylate	0.352	0.386	-9.7	99	0.01
44	T	2,2,4-Trimethylpentane	1.530	1.656	-8.2	108	0.01
45	T	t-1,3-Dichloropropene	0.462	0.495	-7.1	96	0.01
46	T	cis-1,3-Dichloropropene	0.549	0.575	-4.7	97	0.00
47	T	1,1,2-Trichloroethane	0.387	0.400	-3.4	105	0.00
48	T	Dibromochloromethane	0.654	0.713	-9.0	106	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.549	0.634	-15.5	112	0.01
50	T	4-Methyl-2-Pentanone	0.915	0.941	-2.8	101	0.01
51	T	2-Hexanone	0.731	0.754	-3.1	98	0.00
52	T	Tetrachloroethene	0.359	0.336	6.4	103	0.00
53	T	Toluene	0.999	1.090	-9.1	100	0.01
54	T	1,2-Dibromoethane	0.592	0.625	-5.6	105	0.01
55	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	0.591	0.651	-10.2	111	0.01
57	T	Chlorobenzene	1.005	1.048	-4.3	107	0.00
58	T	Ethyl Benzene	1.671	1.910	-14.3	103	0.00
59	T	m/p-Xylene	1.401	1.676	-19.6	109	0.03
60	T	o-Xylene	1.403	1.685	-20.1	110	0.00
61	T	Styrene	0.523	0.619	-18.4	98	0.00
62		Isopropylbenzene	2.023	2.384	-17.8	109	0.00
63	T	1,1,2,2-Tetrachloroethane	0.967	1.039	-7.4	114	0.00
64		n-propylbenzene	0.495	0.570	-15.2	109	0.00
65		tert-Butylbenzene	1.806	2.169	-20.1	111	0.00
66	T	Benzyl Chloride	0.209	0.267	-27.8	107	0.00
67		sec-Butylbenzene	2.566	3.077	-19.9	112	0.00
68	S	1-Bromo-4-Fluorobenzene	0.927	1.025	-10.6	100	0.00
69		p-Isopropyltoluene	2.162	2.579	-19.3	111	0.00
70		n-Butylbenzene	2.235	2.714	-21.4	114	0.00
71		2-Chlorotoluene	1.587	1.883	-18.7	109	0.00
72	T	4-Ethyltoluene	1.654	2.055	-24.2	111	0.00
73	T	1,3,5-Trimethylbenzene	1.455	1.781	-22.4	112	0.00
74	T	1,2,4-Trimethylbenzene	1.760	2.013	-14.4	113	0.00
75	T	1,3-Dichlorobenzene	0.980	1.085	-10.7	113	0.00
76	T	1,4-Dichlorobenzene	0.927	1.104	-19.1	113	0.00
77	T	1,2-Dichlorobenzene	0.959	1.058	-10.3	114	0.00
78	T	Hexachloro-1,3-Butadiene	0.958	0.944	1.5	113	0.00
79	T	Naphthalene	1.482	1.813	-22.3	110	0.00
80	T	Naphthalene,2-methyl-	1.101	1.395	-26.7	110	0.00
81	T	1,2,4-Trichlorobenzene	0.790	0.881	-11.5	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	10.000	10.000	0.0	97	0.00
2	T	Dichlorodifluoromethane	10.000	11.466	-14.7	125	0.00
3		Chlorodifluoromethane	10.000	9.883	1.2	107	0.00
4		Chloromethane	10.000	10.814	-8.1	116	0.00
5	T	Vinyl Chloride	10.000	9.847	1.5	117	0.00
6	T	Bromomethane	10.000	11.263	-12.6	126	0.00
7		Chloroethane	10.000	10.651	-6.5	115	0.00
8	T	Dichlorotetrafluoroethane	10.000	11.192	-11.9	120	0.00
9	T	Propene	10.000	8.689	13.1	92	0.00
10	T	Heptane	10.000	10.030	-0.3	100	0.00
11	T	Trichlorofluoromethane	10.000	11.700	-17.0	126	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	11.114	-11.1	120	0.00
13		Ethanol	10.000	7.889	21.1	112	0.00
14	T	Bromoethene	10.000	11.645	-16.4	128	0.00
15	T	Acetone	10.000	8.825	11.8	119	0.00
16	T	1,3-Butadiene	10.000	9.963	0.4	114	0.00
17		tert-Butyl alcohol	10.000	10.628	-6.3	111	0.00
18	T	1,1-Dichloroethene	10.000	10.614	-6.1	119	0.00
19	T	Isopropyl Alcohol	10.000	9.856	1.4	110	0.00
20	T	Methylene Chloride	10.000	9.829	1.7	117	0.00
21	T	Allyl Chloride	10.000	10.342	-3.4	110	0.00
22	T	trans-1,2-Dichloroethene	10.000	10.253	-2.5	120	0.00
23	T	Vinyl Acetate	10.000	9.809	1.9	96	0.00
24	T	1,1-Dichloroethane	10.000	10.651	-6.5	117	0.00
25	T	Ethyl Acetate	10.000	9.931	0.7	100	0.00
26	T	Hexane	10.000	9.993	0.1	102	0.00
27	T	Carbon Disulfide	10.000	11.716	-17.2	119	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.740	2.6	108	0.00
29	T	Chloroform	10.000	10.435	-4.4	110	0.00
30	T	Cyclohexane	10.000	10.153	-1.5	100	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.503	5.0	102	0.00
32	T	1,1,1-Trichloroethane	10.000	10.179	-1.8	112	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	93	0.00
34	T	2-Butanone	10.000	9.645	3.6	99	0.00
35	T	Carbon Tetrachloride	10.000	11.127	-11.3	114	0.00
36	T	Benzene	10.000	10.233	-2.3	101	0.00
37	T	1,2-Dichloroethane	10.000	10.669	-6.7	109	0.00
38	T	Trichloroethene	10.000	10.630	-6.3	103	0.01
39	T	1,2-Dichloropropane	10.000	9.570	4.3	100	0.01
40	T	1,4-Dioxane	10.000	9.396	6.0	97	0.00
41	T	Tetrahydrofuran	10.000	9.932	0.7	98	0.00
42	T	Bromodichloromethane	10.000	11.113	-11.1	110	0.01
43		Methyl Methacrylate	10.000	10.960	-9.6	99	0.01
44	T	2,2,4-Trimethylpentane	10.000	10.824	-8.2	108	0.01
45	T	t-1,3-Dichloropropene	10.000	10.719	-7.2	96	0.01
46	T	cis-1,3-Dichloropropene	10.000	10.473	-4.7	97	0.00
47	T	1,1,2-Trichloroethane	10.000	10.320	-3.2	105	0.00
48	T	Dibromochloromethane	10.000	10.899	-9.0	106	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
LabSampleId : VSTDCCC010

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	Bromoform	10.000	11.565	-15.6	112	0.01
50	T	4-Methyl-2-Pentanone	10.000	10.283	-2.8	101	0.01
51	T	2-Hexanone	10.000	10.308	-3.1	98	0.00
52	T	Tetrachloroethene	10.000	9.354	6.5	103	0.00
53	T	Toluene	10.000	10.913	-9.1	100	0.01
54	T	1,2-Dibromoethane	10.000	10.548	-5.5	105	0.01
55	I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	10.000	11.016	-10.2	111	0.01
57	T	Chlorobenzene	10.000	10.428	-4.3	107	0.00
58	T	Ethyl Benzene	10.000	11.431	-14.3	103	0.00
59	T	m/p-Xylene	20.000	23.920	-19.6	109	0.03
60	T	o-Xylene	10.000	12.013	-20.1	110	0.00
61	T	Styrene	10.000	11.828	-18.3	98	0.00
62		Isopropylbenzene	10.000	11.784	-17.8	109	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	10.748	-7.5	114	0.00
64		n-propylbenzene	10.000	11.517	-15.2	109	0.00
65		tert-Butylbenzene	10.000	12.010	-20.1	111	0.00
66	T	Benzyl Chloride	10.000	12.798	-28.0	107	0.00
67		sec-Butylbenzene	10.000	11.992	-19.9	112	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	11.051	-10.5	100	0.00
69		p-Isopropyltoluene	10.000	11.931	-19.3	111	0.00
70		n-Butylbenzene	10.000	12.144	-21.4	114	0.00
71		2-Chlorotoluene	10.000	11.862	-18.6	109	0.00
72	T	4-Ethyltoluene	10.000	12.424	-24.2	111	0.00
73	T	1,3,5-Trimethylbenzene	10.000	12.248	-22.5	112	0.00
74	T	1,2,4-Trimethylbenzene	10.000	11.441	-14.4	113	0.00
75	T	1,3-Dichlorobenzene	10.000	11.074	-10.7	113	0.00
76	T	1,4-Dichlorobenzene	10.000	11.906	-19.1	113	0.00
77	T	1,2-Dichlorobenzene	10.000	11.034	-10.3	114	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	9.859	1.4	113	0.00
79	T	Naphthalene	10.000	12.239	-22.4	110	0.00
80	T	Naphthalene,2-methyl-	10.000	12.673	-26.7	110	0.00
81	T	1,2,4-Trichlorobenzene	10.000	11.147	-11.5	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042488.D
Acq On : 06 May 2025 09:49
Operator : SY/MD
Sample : VL0506ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABL01

Quant Time: May 07 01:36:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

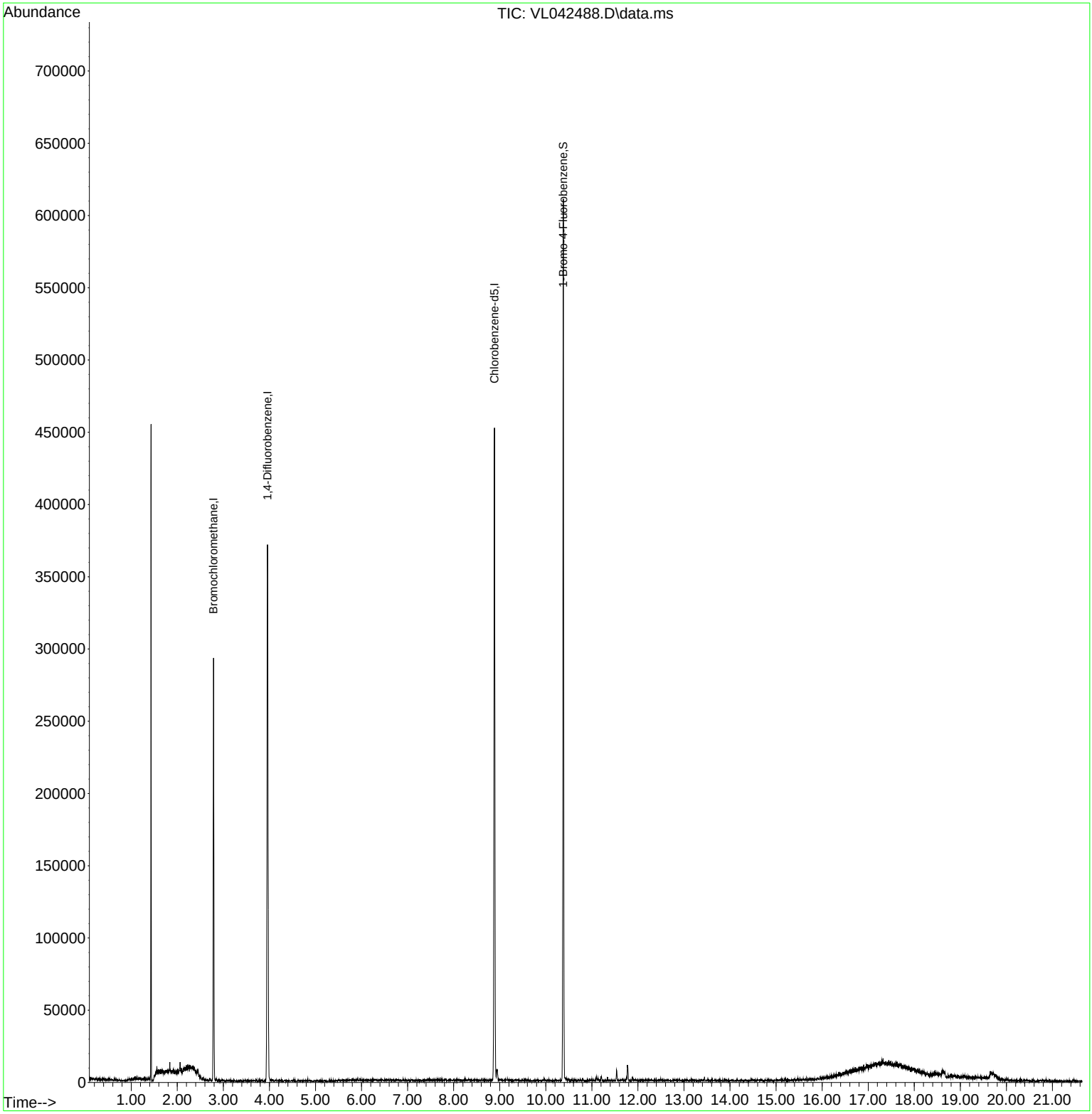
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	71766	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	194806	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	158449	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	146316	9.960	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.600%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042488.D
Acq On : 06 May 2025 09:49
Operator : SY/MD
Sample : VL0506ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABL01

Quant Time: May 07 01:36:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042489.D
Acq On : 06 May 2025 10:44
Operator : SY/MD
Sample : VL0506ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 07 01:36:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/07/2025
Supervised By :Mahesh Dadoda 05/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	68512	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	189766	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	162176	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	162347	10.797	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 108.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	128425	11.327	ppbv		99
3) Chlorodifluoromethane	1.476	51	120834	10.080	ppbv		98
4) Chloromethane	1.531	50	51363	10.839	ppbv		94
5) Vinyl Chloride	1.580	62	50552	10.596	ppbv		95
6) Bromomethane	1.667	94	24844	11.021	ppbv	#	81
7) Chloroethane	1.706	64	19253	10.929	ppbv		98
8) Dichlorotetrafluoroethane	1.554	85	108256	11.583	ppbv		99
9) Propene	1.483	41	36687	9.357	ppbv		100
10) Heptane	4.985	43	108748	10.693	ppbv		99
11) Trichlorofluoromethane	1.878	101	118964	11.371	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.140	101	92491	11.072	ppbv		97
13) Ethanol	1.722	45	5717	7.185	ppbv		96
14) Bromoethene	1.781	108	35036	11.361	ppbv		99
15) Acetone	1.836	43	110911	8.868	ppbv		98
16) 1,3-Butadiene	1.609	39	57769	10.473	ppbv		100
17) tert-Butyl alcohol	2.043	59	121629	11.038	ppbv		98
18) 1,1-Dichloroethene	2.033	96	41573	10.658	ppbv		91
19) Isopropyl Alcohol	1.887	45	70143	10.133	ppbv		100
20) Methylene Chloride	2.062	84	38025	10.113	ppbv		97
21) Allyl Chloride	2.095	41	87030	10.820	ppbv		98
22) trans-1,2-Dichloroethene	2.341	96	46194	10.140	ppbv		92
23) Vinyl Acetate	2.463	43	122507	10.263	ppbv		99
24) 1,1-Dichloroethane	2.408	63	99878	10.747	ppbv		98
25) Ethyl Acetate	2.839	43	207809	10.377	ppbv		99
26) Hexane	2.826	57	94005	10.775	ppbv		95
27) Carbon Disulfide	2.150	76	118732	11.662	ppbv	#	89
28) Methyl tert-Butyl Ether	2.441	73	52295	9.977	ppbv		97
29) Chloroform	2.849	83	178140	10.896	ppbv		98
30) Cyclohexane	3.858	84	78419	10.751	ppbv		98
31) cis-1,2-Dichloroethene	2.722	61	102999	10.119	ppbv		97
32) 1,1,1-Trichloroethane	3.370	97	185042	10.433	ppbv		99
34) 2-Butanone	2.561	43	135534	9.874	ppbv		95
35) Carbon Tetrachloride	3.765	117	192452	11.164	ppbv		96
36) Benzene	3.658	78	188082	10.503	ppbv		96
37) 1,2-Dichloroethane	3.221	62	150741	10.922	ppbv		99
38) Trichloroethene	4.554	130	75153	11.005	ppbv		97
39) 1,2-Dichloropropane	4.315	63	67616	10.086	ppbv		92
40) 1,4-Dioxane	4.583	88	30720	9.786	ppbv	#	100
41) Tetrahydrofuran	3.056	42	66397	10.179	ppbv		98
42) Bromodichloromethane	4.496	83	188247	11.163	ppbv		96
43) Methyl Methacrylate	4.888	69	73710	11.030	ppbv		95
44) 2,2,4-Trimethylpentane	4.642	57	317017	10.921	ppbv		99
45) t-1,3-Dichloropropene	6.419	75	95245	10.864	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042489.D
Acq On : 06 May 2025 10:44
Operator : SY/MD
Sample : VL0506ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 07 01:36:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/07/2025
Supervised By :Mahesh Dadoda 05/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	112024	10.751	ppbv	96
47) 1,1,2-Trichloroethane	6.590	97	80000	10.880	ppbv	99
48) Dibromochloromethane	7.390	129	137019	11.039	ppbv	99
49) Bromoform	9.487	173	115649	11.110	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	179961	10.365	ppbv	97
51) 2-Hexanone	7.441	43	143801	10.359	ppbv #	99
52) Tetrachloroethene	8.228	164	61852	9.074	ppbv	94
53) Toluene	6.940	91	211514	11.159	ppbv	99
54) 1,2-Dibromoethane	7.655	107	119785	10.656	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.927	131	107810	11.256	ppbv	99
57) Chlorobenzene	8.927	112	170186	10.444	ppbv	98
58) Ethyl Benzene	9.361	91	316187	11.667	ppbv	100
59) m/p-Xylene	9.555	91	546871m	24.069	ppbv	
60) o-Xylene	9.966	91	275574	12.114	ppbv	98
61) Styrene	9.875	104	100944	11.891	ppbv	95
62) Isopropylbenzene	10.542	105	386743	11.786	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	168155	10.722	ppbv	99
64) n-propylbenzene	10.992	120	95485	11.906	ppbv	98
65) tert-Butylbenzene	11.536	119	347665	11.872	ppbv	97
66) Benzyl Chloride	11.617	91	44409	13.121	ppbv	96
67) sec-Butylbenzene	11.772	105	500648	12.031	ppbv	99
69) p-Isopropyltoluene	11.931	119	418184	11.927	ppbv	99
70) n-Butylbenzene	12.283	91	439757	12.133	ppbv	99
71) 2-Chlorotoluene	10.905	91	304635	11.836	ppbv	99
72) 4-Ethyltoluene	11.128	105	332254	12.388	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	285001	12.082	ppbv	94
74) 1,2,4-Trimethylbenzene	11.539	105	326996	11.457	ppbv	95
75) 1,3-Dichlorobenzene	11.610	146	176191	11.089	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	173576	11.543	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	171125	11.003	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	153031	9.854	ppbv	99
79) Naphthalene	13.517	128	289175	12.036	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	236741	13.257	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	142190	11.096	ppbv	98

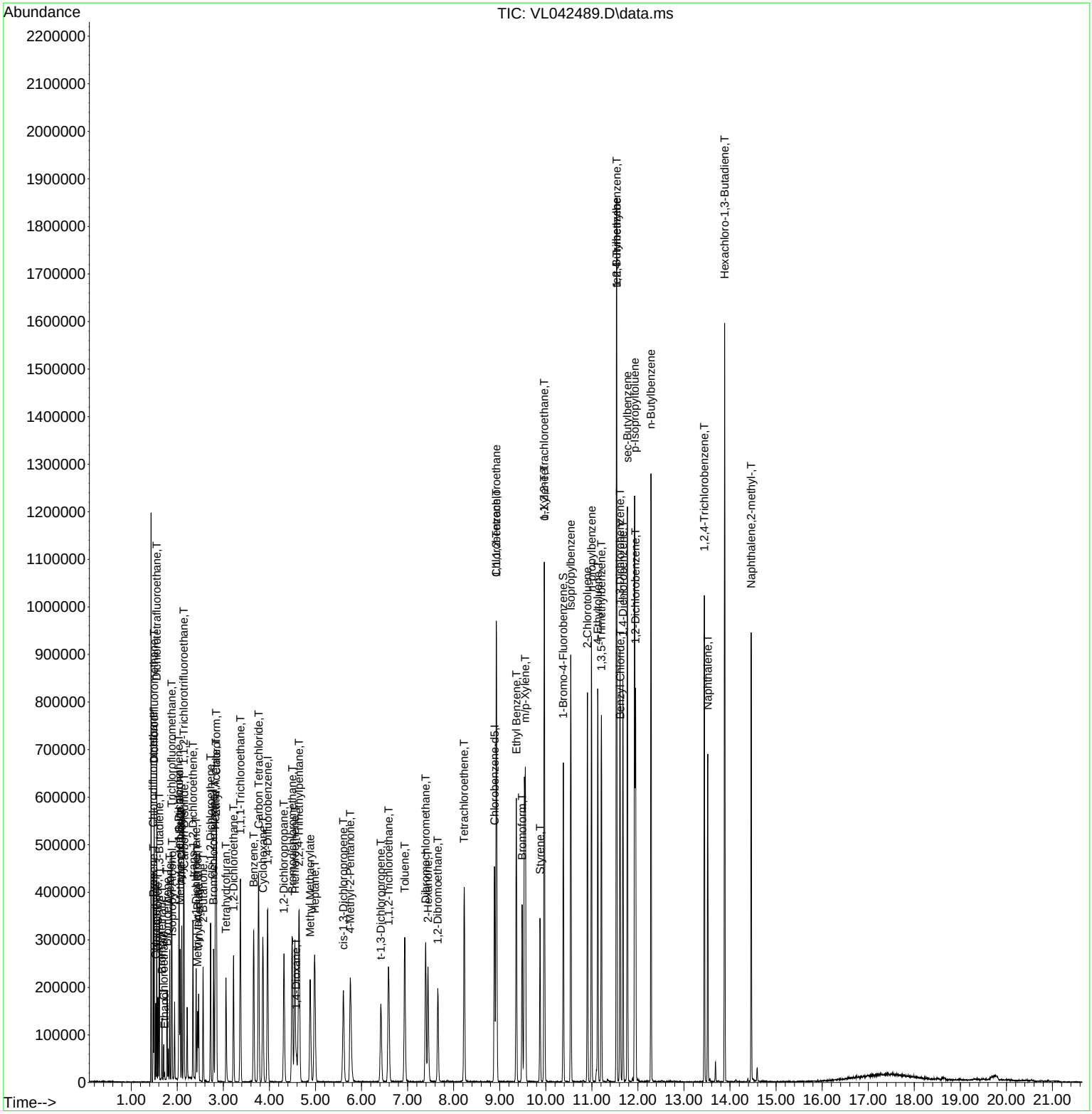
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042489.D
Acq On : 06 May 2025 10:44
Operator : SY/MD
Sample : VL0506ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 07 01:36:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/07/2025
Supervised By :Mahesh Dadoda 05/09/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042492.D
Acq On : 06 May 2025 12:19
Operator : SY/MD
Sample : QC042225 CAN 10669
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC042225 CAN 10669

Quant Time: May 07 01:38:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

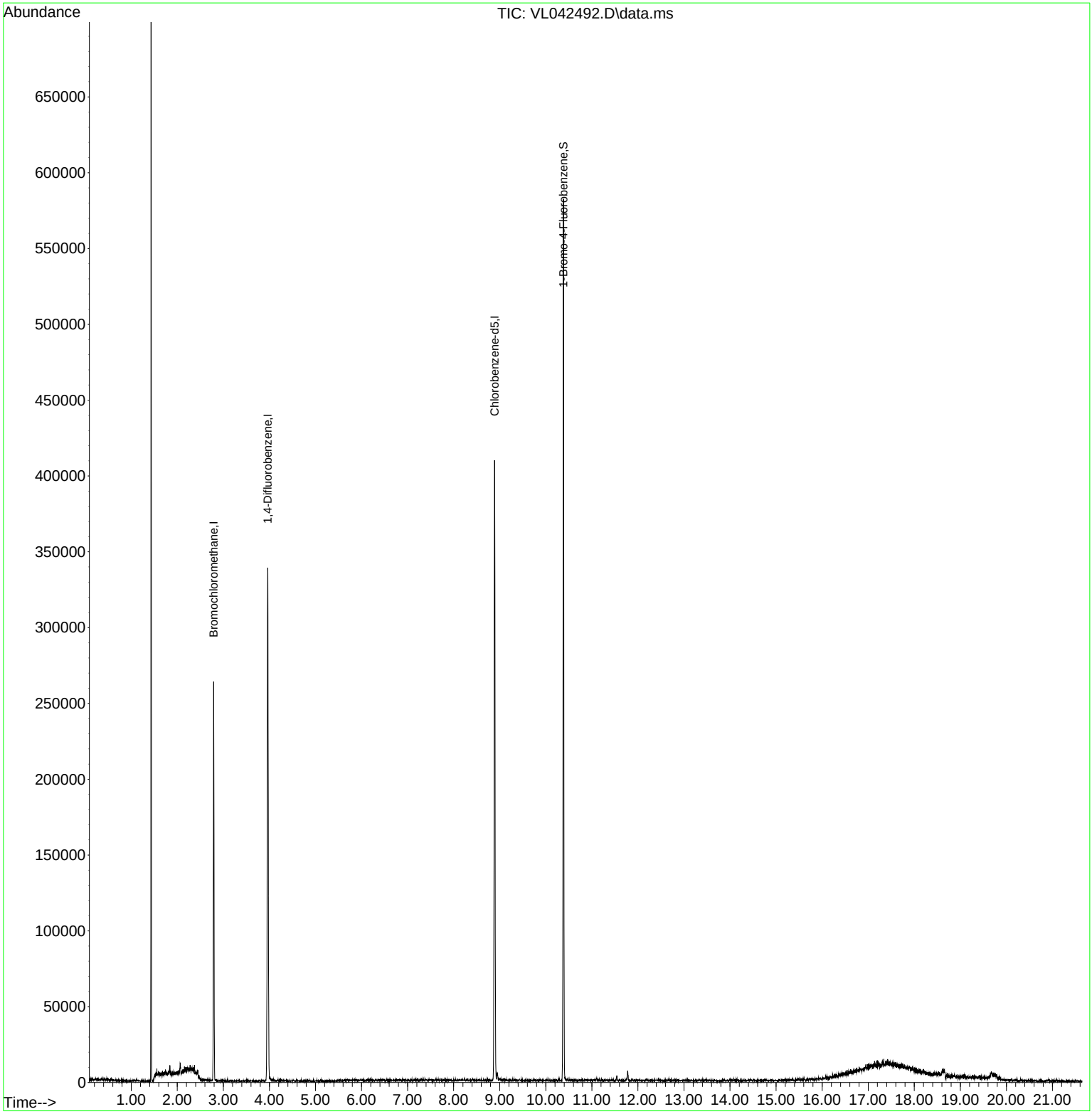
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	63187	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	172595	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	143665	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	131884	9.901	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.000%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042492.D
Acq On : 06 May 2025 12:19
Operator : SY/MD
Sample : QC042225 CAN 10669
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC042225 CAN 10669

Quant Time: May 07 01:38:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



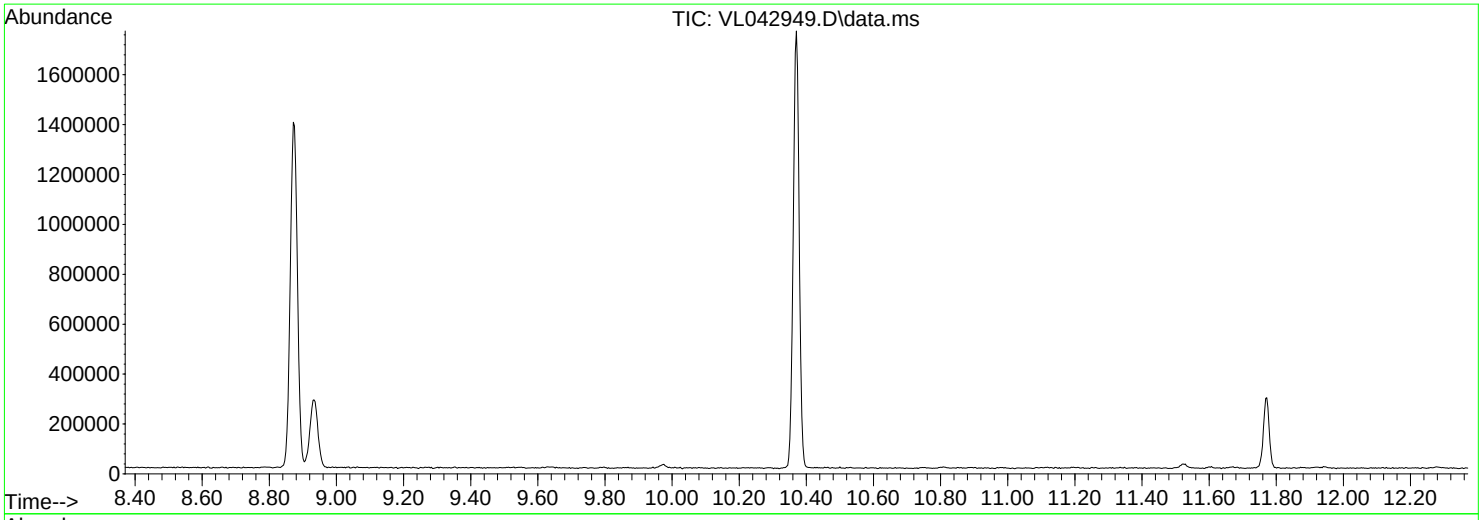
BFB

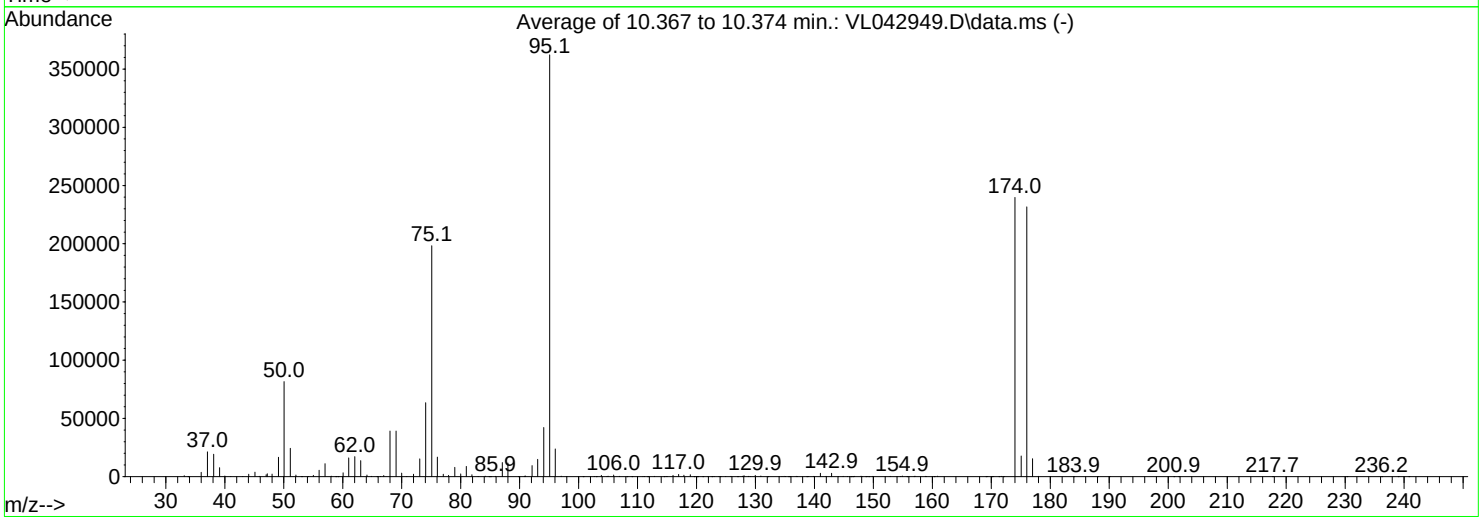
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042949.D
Acq On : 22 Sep 2025 08:55
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Sep 23 02:39:16 2025





AutoFind: Scans 3176, 3177, 3178; 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	22.5	81605	PASS
75	95	30	66	54.7	198315	PASS
95	95	100	100	100.0	362228	PASS
96	95	5	9	6.6	23817	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	66.2	239765	PASS
175	174	4	9	7.4	17693	PASS
176	174	93	101	96.6	231701	PASS
177	176	5	9	6.6	15367	PASS

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL092225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Sep 23 02:39:16 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL042955.D 0.1 =VL042954.D 0.5 =VL042953.D 1 =VL042952.D 2 =VL042951.D 10 =VL042950.D 15 =VL042956.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.391	1.452	1.401	1.248	1.232	1.345	7.33
3)		Chlorodifluoro...			1.782	1.821	1.710	1.574	1.494	1.676	8.27
4)		Chloromethane			0.693	0.622	0.624	0.560	0.545	0.609	9.66
5)	T	Vinyl Chloride	0.729	0.562	0.529	0.567	0.524	0.470	0.472	0.550	15.95
6)	T	Bromomethane			0.224	0.215	0.200	0.166	0.167	0.194	13.76
7)		Chloroethane			0.234	0.238	0.212	0.196	0.189	0.214	10.33
8)	T	Dichlorotetraf...			1.227	1.239	1.180	1.047	1.047	1.148	8.24
9)	T	Propene			0.784	0.787	0.762	0.684	0.631	0.729	9.47
10)	T	Heptane			2.102	2.060	1.961	1.870	1.738	1.946	7.57
11)	T	Trichlorofluor...			1.354	1.376	1.346	1.199	1.210	1.297	6.58
12)	T	1,1,2-Trichlor...			1.130	1.117	1.068	0.963	0.973	1.050	7.48
13)		Ethanol			0.076	0.090	0.088	0.053	0.047	0.071	27.75
14)	T	Bromoethene			0.430	0.417	0.415	0.362	0.362	0.397	8.23
15)	T	Acetone			1.490	1.552	1.475	0.993	1.002	1.302	21.48
16)	T	1,3-Butadiene			0.751	0.675	0.607	0.520	0.519	0.614	16.41
17)		tert-Butyl alc...			1.587	1.544	1.398	1.351	1.262	1.429	9.47
18)	T	1,1-Dichloroet...			0.549	0.503	0.485	0.446	0.447	0.486	8.86
19)	T	Isopropyl Alcohol			0.898	0.813	0.818	0.718	0.667	0.783	11.61
20)	T	Methylene Chlo...			0.832	0.617	0.510	0.388	0.380	0.545	34.40
21)	T	Allyl Chloride			0.904	0.971	0.966	0.857	0.837	0.907	6.72
22)	T	trans-1,2-Dich...			0.589	0.612	0.556	0.507	0.499	0.552	8.98
23)	T	Vinyl Acetate			2.208	1.897	1.888	1.594	1.716	1.861	12.45
24)	T	1,1-Dichloroet...			1.147	1.172	1.109	0.993	0.996	1.083	7.76
25)	T	Ethyl Acetate			3.405	3.494	3.443	3.153	2.966	3.292	6.83
26)	T	Hexane			1.621	1.614	1.553	1.398	1.317	1.501	9.08
27)	T	Carbon Disulfide			1.395	1.436	1.396	1.271	1.232	1.346	6.59
28)	T	Methyl tert-Bu...			0.953	0.773	0.742	0.638	0.794	0.780	14.61
29)	T	Chloroform			2.078	2.042	2.038	1.848	1.804	1.962	6.42
30)	T	Cyclohexane			1.312	1.333	1.280	1.193	1.154	1.255	6.19
31)	T	cis-1,2-Dichlo...			1.443	1.464	1.465	1.357	1.300	1.406	5.26
32)	T	1,1,1-Trichlor...	2.724	2.087	2.017	2.164	2.071	1.902	1.868	2.119	13.51
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.744	0.731	0.741	0.655	0.633	0.701	7.52
35)	T	Carbon Tetrach...	0.734	0.616	0.660	0.665	0.657	0.610	0.617	0.651	6.63
36)	T	Benzene			0.974	0.970	0.972	0.898	0.881	0.939	4.84
37)	T	1,2-Dichloroet...			0.502	0.517	0.507	0.470	0.473	0.494	4.28
38)	T	Trichloroethene	0.527	0.495	0.481	0.467	0.452	0.426	0.419	0.467	8.20
39)	T	1,2-Dichloropr...			0.344	0.361	0.356	0.327	0.325	0.343	4.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL092225AIR.M

40)	T	1,4-Dioxane			0.173	0.172	0.163	0.148	0.141	0.159	8.95
41)	T	Tetrahydrofuran			0.427	0.407	0.419	0.389	0.372	0.403	5.57
42)	T	Bromodichlorom...			0.689	0.699	0.702	0.681	0.667	0.688	2.07
43)		Methyl Methacr...			0.406	0.396	0.396	0.368	0.355	0.384	5.61
44)	T	2,2,4-Trimethy...			1.705	1.660	1.690	1.563	1.492	1.622	5.64
45)	T	t-1,3-Dichloro...			0.403	0.414	0.421	0.409	0.402	0.410	1.99
46)	T	cis-1,3-Dichlo...			0.522	0.528	0.537	0.523	0.501	0.522	2.55
47)	T	1,1,2-Trichlor...			0.382	0.377	0.371	0.344	0.336	0.362	5.70
48)	T	Dibromochlorom...			0.572	0.586	0.600	0.571	0.568	0.580	2.36
49)	T	Bromoform			0.477	0.507	0.534	0.508	0.495	0.504	4.18
50)	T	4-Methyl-2-Pen...			0.928	0.949	0.988	0.934	0.897	0.939	3.51
51)	T	2-Hexanone			0.719	0.774	0.769	0.751	0.730	0.749	3.19
52)	T	Tetrachloroethene	0.436	0.404	0.356	0.355	0.351	0.325	0.315	0.363	11.76
53)	T	Toluene			1.155	1.137	1.156	1.078	1.031	1.111	4.95
54)	T	1,2-Dibromoethane		0.520	0.520	0.520	0.525	0.490	0.485	0.510	3.47
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.497	0.486	0.505	0.458	0.447	0.479	5.28
57)	T	Chlorobenzene			0.968	0.978	0.944	0.853	0.822	0.913	7.75
58)	T	Ethyl Benzene			1.657	1.715	1.737	1.570	1.531	1.642	5.45
59)	T	m/p-Xylene			1.332	1.365	1.361	1.225	1.190	1.295	6.29
60)	T	o-Xylene			1.335	1.379	1.359	1.221	1.176	1.294	6.96
61)	T	Styrene			0.605	0.619	0.648	0.602	0.585	0.612	3.89
62)		Isopropylbenzene			2.010	2.059	2.028	1.803	1.744	1.929	7.49
63)	T	1,1,2,2-Tetrac...	0.806	0.722	0.688	0.675	0.673	0.610	0.586	0.680	10.66
64)		n-propylbenzene			0.531	0.529	0.523	0.473	0.463	0.504	6.51
65)		tert-Butylbenzene			1.836	1.839	1.842	1.557	1.503	1.715	9.91
66)	T	Benzyl Chloride			0.170	0.173	0.196	0.195	0.165	0.180	8.14
67)		sec-Butylbenzene			2.508	2.559	2.579	2.191	2.115	2.390	9.19
68)	S	1-Bromo-4-Fluo...	0.736	0.738	0.749	0.743	0.747	0.763	0.750	0.746	1.20
69)		p-Isopropyltol...			2.105	2.168	2.179	1.856	1.788	2.019	9.11
70)		n-Butylbenzene			1.929	2.108	2.136	1.881	1.803	1.971	7.36
71)		2-Chlorotoluene			1.543	1.504	1.528	1.373	1.333	1.456	6.61
72)	T	4-Ethyltoluene			1.715	1.686	1.703	1.523	1.476	1.621	6.92
73)	T	1,3,5-Trimethy...			1.333	1.346	1.399	1.263	1.231	1.314	5.12
74)	T	1,2,4-Trimethy...			1.534	1.522	1.558	1.349	1.294	1.451	8.34
75)	T	1,3-Dichlorobe...			0.918	0.954	0.956	0.845	0.827	0.900	6.72
76)	T	1,4-Dichlorobe...			0.922	0.914	0.959	0.845	0.829	0.894	6.12
77)	T	1,2-Dichlorobe...			0.874	0.914	0.918	0.796	0.780	0.856	7.61
78)	T	Hexachloro-1,3...			0.755	0.742	0.728	0.575	0.549	0.670	14.79
79)	T	Naphthalene		1.093	1.102	1.320	1.474	1.373	1.339	1.283	11.96
80)	T	Naphthalene,2-...			0.384	0.365	0.428	0.402	0.404	0.396	5.94
81)	T	1,2,4-Trichlor...			0.557	0.691	0.777	0.718	0.689	0.686	11.73

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042950.D
Acq On : 22 Sep 2025 09:39
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:08:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	170899	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	526679	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	486724	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	371195	10.217	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	213351	9.282	ppbv	100
3) Chlorodifluoromethane	1.473	51	269073	9.392	ppbv	100
4) Chloromethane	1.531	50	95679	9.196	ppbv	100
5) Vinyl Chloride	1.577	62	80350	8.543	ppbv	100
6) Bromomethane	1.667	94	28301	8.530	ppbv	100
7) Chloroethane	1.703	64	33446	9.158	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	178992	9.122	ppbv	100
9) Propene	1.483	41	116849	9.376	ppbv	100
10) Heptane	4.969	43	319577	9.560	ppbv	100
11) Trichlorofluoromethane	1.874	101	204850	9.243	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	164598	9.171	ppbv	100
13) Ethanol	1.719	45	9094	7.613	ppbv	100
14) Bromoethene	1.780	108	61824	9.111	ppbv	100
15) Acetone	1.832	43	169676	7.623	ppbv	100
16) 1,3-Butadiene	1.606	39	88812	8.459	ppbv	100
17) tert-Butyl alcohol	2.036	59	230853	9.456	ppbv	100
18) 1,1-Dichloroethene	2.030	96	76184	9.170	ppbv	100
19) Isopropyl Alcohol	1.884	45	122753	9.174	ppbv	100
20) Methylene Chloride	2.059	84	66314	9.992	ppbv	100
21) Allyl Chloride	2.094	41	146473	9.449	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	86580	9.172	ppbv	100
23) Vinyl Acetate	2.460	43	272378	8.566	ppbv	100
24) 1,1-Dichloroethane	2.405	63	169721	9.168	ppbv	100
25) Ethyl Acetate	2.829	43	538761	9.577	ppbv	100
26) Hexane	2.823	57	238896	9.316	ppbv	100
27) Carbon Disulfide	2.146	76	217259	9.446	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	108987	8.176	ppbv	100
29) Chloroform	2.845	83	315779	9.418	ppbv	100
30) Cyclohexane	3.852	84	203803	9.506	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	231907	9.654	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	325118	8.947	ppbv	100
34) 2-Butanone	2.551	43	344874	9.343	ppbv	100
35) Carbon Tetrachloride	3.755	117	321267	9.480	ppbv	100
36) Benzene	3.651	78	472855	9.561	ppbv	100
37) 1,2-Dichloroethane	3.214	62	247754	9.525	ppbv	100
38) Trichloroethene	4.541	130	224516	9.134	ppbv	100
39) 1,2-Dichloropropane	4.305	63	172059	9.523	ppbv	100
40) 1,4-Dioxane	4.570	88	77889	9.283	ppbv #	100
41) Tetrahydrofuran	3.046	42	204724	9.649	ppbv	100
42) Bromodichloromethane	4.480	83	358858	9.903	ppbv	100
43) Methyl Methacrylate	4.871	69	193676	9.646	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	823031	9.631	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	215233	9.969	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042950.D
Acq On : 22 Sep 2025 09:39
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:08:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	275210	10.006	ppbv		100
47) 1,1,2-Trichloroethane	6.571	97	181329	9.498	ppbv		100
48) Dibromochloromethane	7.383	129	300497	9.845	ppbv		100
49) Bromoform	9.480	173	267814	10.087	ppbv		100
50) 4-Methyl-2-Pentanone	5.736	43	492068	9.920	ppbv		100
51) 2-Hexanone	7.428	43	395744	10.036	ppbv	#	100
52) Tetrachloroethene	8.218	164	171294	8.951	ppbv		100
53) Toluene	6.923	91	567779	9.699	ppbv		100
54) 1,2-Dibromoethane	7.645	107	257904	9.605	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.921	131	223066	9.575	ppbv		100
57) Chlorobenzene	8.917	112	415238	9.345	ppbv		100
58) Ethyl Benzene	9.348	91	764249	9.562	ppbv		100
59) m/p-Xylene	9.526	91	1192566m	18.913	ppbv		
60) o-Xylene	9.959	91	594329	9.437	ppbv		100
61) Styrene	9.866	104	293111	9.840	ppbv		100
62) Isopropylbenzene	10.536	105	877401	9.347	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.956	83	296678	8.963	ppbv		100
64) n-propylbenzene	10.985	120	230432	9.394	ppbv		100
65) tert-Butylbenzene	11.526	119	757958	9.078	ppbv		100
66) Benzyl Chloride	11.610	91	94982	10.842	ppbv		100
67) sec-Butylbenzene	11.762	105	1066409	9.166	ppbv		100
69) p-Isopropyltoluene	11.921	119	903376	9.192	ppbv		100
70) n-Butylbenzene	12.277	91	915624	9.543	ppbv		100
71) 2-Chlorotoluene	10.895	91	668239	9.428	ppbv		100
72) 4-Ethyltoluene	11.121	105	741298	9.398	ppbv		100
73) 1,3,5-Trimethylbenzene	11.199	105	614632	9.608	ppbv		100
74) 1,2,4-Trimethylbenzene	11.532	105	656535	9.294	ppbv		100
75) 1,3-Dichlorobenzene	11.604	146	411473	9.392	ppbv		100
76) 1,4-Dichlorobenzene	11.668	146	411464	9.456	ppbv		100
77) 1,2-Dichlorobenzene	11.944	146	387219	9.289	ppbv		100
78) Hexachloro-1,3-Butadiene	13.876	225	280080	8.591	ppbv		100
79) Naphthalene	13.510	128	668171	10.696	ppbv		100
80) Naphthalene,2-methyl-	14.452	142	195695	10.142	ppbv		100
81) 1,2,4-Trichlorobenzene	13.436	180	349393	10.461	ppbv		100

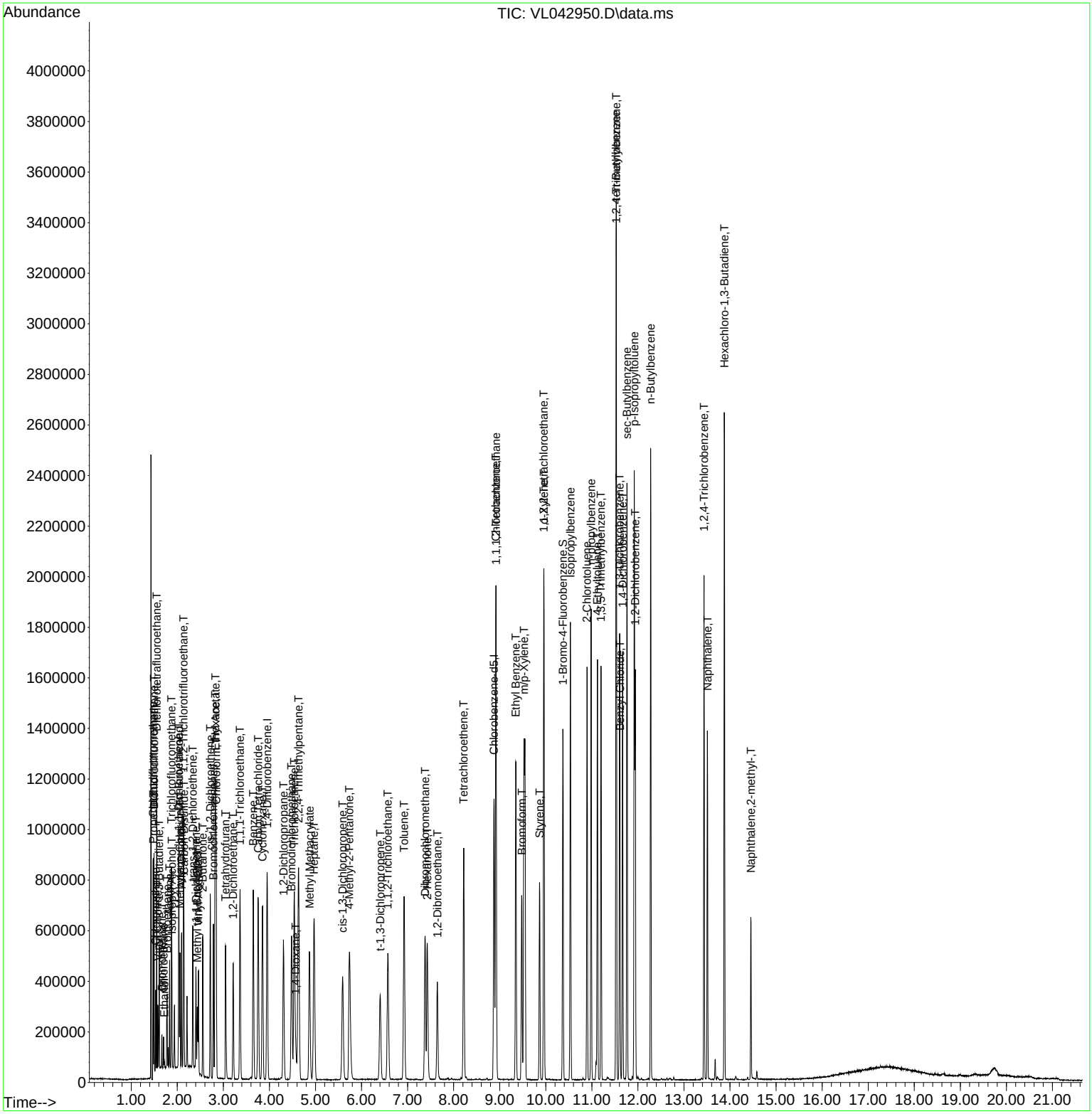
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042950.D
Acq On : 22 Sep 2025 09:39
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:08:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042951.D
Acq On : 22 Sep 2025 10:14
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	170758	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	524389	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	483821	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	361586	10.012	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	47851	2.083	ppbv	97
3) Chlorodifluoromethane	1.476	51	58395	2.040	ppbv	95
4) Chloromethane	1.534	50	21326	2.051	ppbv	99
5) Vinyl Chloride	1.580	62	17892	1.904	ppbv	98
6) Bromomethane	1.667	94	6816	2.056	ppbv	96
7) Chloroethane	1.706	64	7250	1.987	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	40306	2.056	ppbv	98
9) Propene	1.483	41	26007	2.088	ppbv	99
10) Heptane	4.978	43	66978	2.005	ppbv	99
11) Trichlorofluoromethane	1.877	101	45973	2.076	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.140	101	36490	2.035	ppbv	98
13) Ethanol	1.722	45	2989	2.504	ppbv	93
14) Bromoethene	1.784	108	14189	2.093	ppbv #	96
15) Acetone	1.835	43	50357	2.264	ppbv	99
16) 1,3-Butadiene	1.609	39	20729	1.976	ppbv	94
17) tert-Butyl alcohol	2.042	59	47749	1.957	ppbv #	93
18) 1,1-Dichloroethene	2.036	96	16572	1.996	ppbv	95
19) Isopropyl Alcohol	1.887	45	27930	2.089	ppbv #	79
20) Methylene Chloride	2.062	84	17413	2.097	ppbv #	84
21) Allyl Chloride	2.098	41	32985	2.130	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	18991	2.013	ppbv	98
23) Vinyl Acetate	2.463	43	64479	2.029	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	37865	2.047	ppbv	99
25) Ethyl Acetate	2.835	43	117567	2.092	ppbv	99
26) Hexane	2.826	57	53034	2.070	ppbv	98
27) Carbon Disulfide	2.153	76	47660	2.074	ppbv #	60
28) Methyl tert-Butyl Ether	2.441	73	25348	1.903	ppbv	92
29) Chloroform	2.848	83	69599	2.077	ppbv	96
30) Cyclohexane	3.855	84	43725	2.041	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	50019	2.084	ppbv	95
32) 1,1,1-Trichloroethane	3.366	97	70729	1.948	ppbv	97
34) 2-Butanone	2.557	43	77689	2.114	ppbv	98
35) Carbon Tetrachloride	3.761	117	68858	2.041	ppbv	95
36) Benzene	3.658	78	101901	2.069	ppbv	97
37) 1,2-Dichloroethane	3.217	62	53130	2.052	ppbv	98
38) Trichloroethene	4.548	130	47424	1.938	ppbv	94
39) 1,2-Dichloropropane	4.308	63	37381m	2.078	ppbv	
40) 1,4-Dioxane	4.586	88	17074m	2.044	ppbv	
41) Tetrahydrofuran	3.056	42	43962	2.081	ppbv	98
42) Bromodichloromethane	4.486	83	73675	2.042	ppbv	98
43) Methyl Methacrylate	4.881	69	41527	2.077	ppbv	99
44) 2,2,4-Trimethylpentane	4.638	57	177242	2.083	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	44171	2.055	ppbv	91

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042951.D
Acq On : 22 Sep 2025 10:14
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	56335	2.057	ppbv	97
47) 1,1,2-Trichloroethane	6.577	97	38961m	2.050	ppbv	
48) Dibromochloromethane	7.383	129	62968	2.072	ppbv	98
49) Bromoform	9.480	173	56021	2.119	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	103605m	2.098	ppbv	
51) 2-Hexanone	7.438	43	80620	2.053	ppbv	99
52) Tetrachloroethene	8.224	164	36853	1.934	ppbv	94
53) Toluene	6.933	91	121268	2.081	ppbv	100
54) 1,2-Dibromoethane	7.652	107	55022	2.058	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.920	131	48901	2.112	ppbv	98
57) Chlorobenzene	8.924	112	91325	2.068	ppbv	94
58) Ethyl Benzene	9.354	91	168063	2.115	ppbv	99
59) m/p-Xylene	9.532	91	263362m	4.202	ppbv	
60) o-Xylene	9.963	91	131507	2.101	ppbv	98
61) Styrene	9.869	104	62748	2.119	ppbv	98
62) Isopropylbenzene	10.539	105	196198	2.103	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	65089	1.978	ppbv	98
64) n-propylbenzene	10.985	120	50569	2.074	ppbv	93
65) tert-Butylbenzene	11.529	119	178218	2.147	ppbv	98
66) Benzyl Chloride	11.613	91	18992	2.181	ppbv	98
67) sec-Butylbenzene	11.765	105	249510	2.158	ppbv	100
69) p-Isopropyltoluene	11.924	119	210808	2.158	ppbv	97
70) n-Butylbenzene	12.280	91	206691	2.167	ppbv	100
71) 2-Chlorotoluene	10.898	91	147901	2.099	ppbv	100
72) 4-Ethyltoluene	11.124	105	164770	2.102	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	135344	2.128	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	150772	2.147	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	92487	2.124	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	92794	2.145	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	88825	2.144	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	70481	2.175	ppbv	99
79) Naphthalene	13.510	128	142653	2.297	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	41369	2.157	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	75139	2.263	ppbv	99

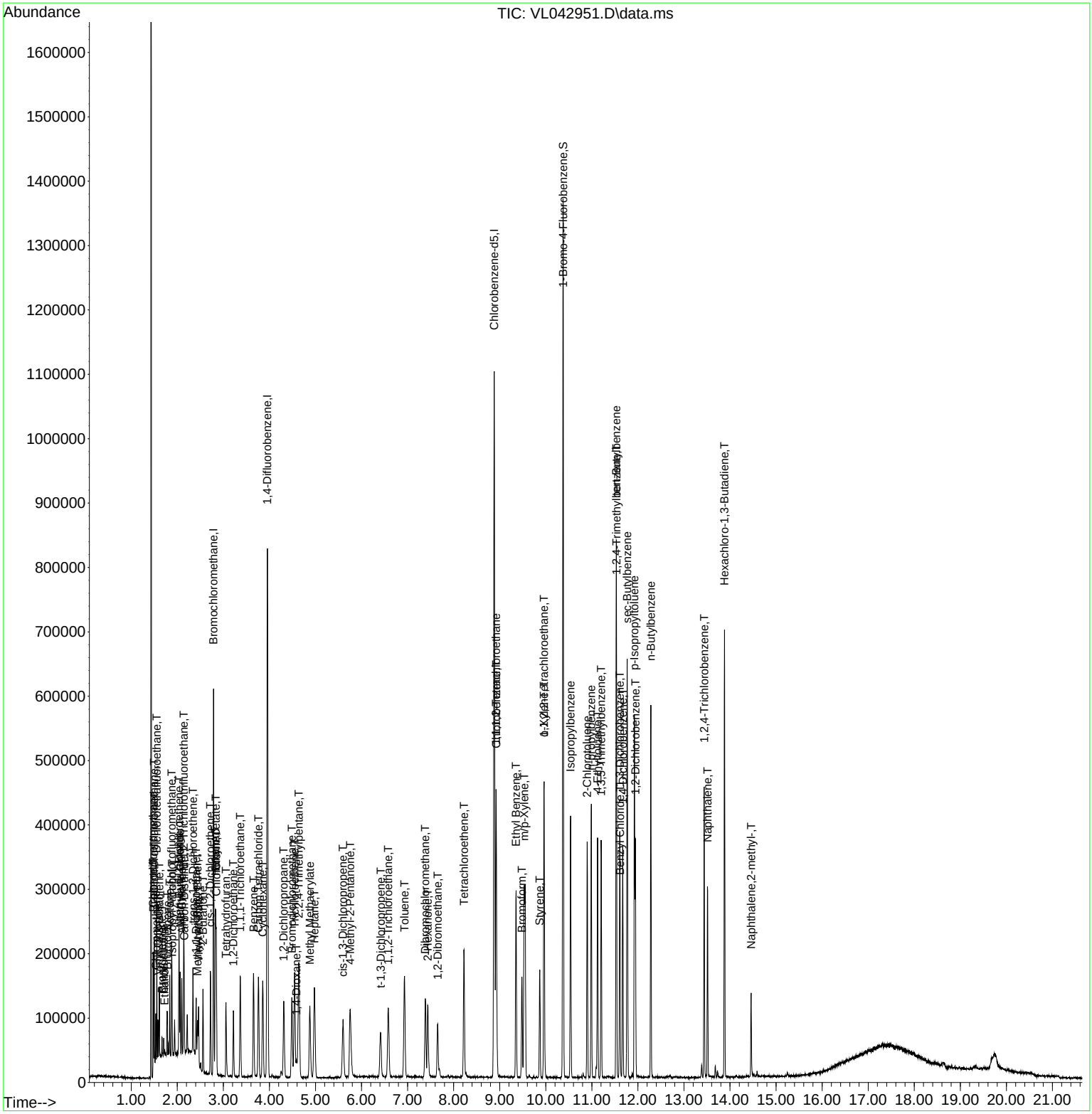
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042951.D
Acq On : 22 Sep 2025 10:14
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042952.D
Acq On : 22 Sep 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	162797	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	511767	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	469265	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	348878	9.960	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	23644	1.080	ppbv		97
3) Chlorodifluoromethane	1.476	51	29646	1.086	ppbv		99
4) Chloromethane	1.531	50	10120	1.021	ppbv		97
5) Vinyl Chloride	1.580	62	9228	1.030	ppbv		99
6) Bromomethane	1.667	94	3493	1.105	ppbv		96
7) Chloroethane	1.703	64	3872	1.113	ppbv	#	81
8) Dichlorotetrafluoroethane	1.554	85	20172	1.079	ppbv		97
9) Propene	1.482	41	12808	1.079	ppbv		92
10) Heptane	4.972	43	33540m	1.053	ppbv		
11) Trichlorofluoromethane	1.874	101	22397	1.061	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.136	101	18180	1.063	ppbv		99
13) Ethanol	1.719	45	1463	1.286	ppbv	#	33
14) Bromoethene	1.780	108	6783	1.049	ppbv	#	87
15) Acetone	1.832	43	25273	1.192	ppbv		99
16) 1,3-Butadiene	1.609	39	10993	1.099	ppbv		88
17) tert-Butyl alcohol	2.039	59	25141	1.081	ppbv	#	88
18) 1,1-Dichloroethene	2.033	96	8192	1.035	ppbv		96
19) Isopropyl Alcohol	1.884	45	13241	1.039	ppbv	#	41
20) Methylene Chloride	2.059	84	10045	0.985	ppbv		97
21) Allyl Chloride	2.094	41	15801	1.070	ppbv		95
22) trans-1,2-Dichloroethene	2.337	96	9960	1.108	ppbv		96
23) Vinyl Acetate	2.457	43	30884	1.020	ppbv	#	96
24) 1,1-Dichloroethane	2.405	63	19077	1.082	ppbv		99
25) Ethyl Acetate	2.832	43	56877	1.061	ppbv		97
26) Hexane	2.822	57	26276	1.076	ppbv		96
27) Carbon Disulfide	2.149	76	23373	1.067	ppbv	#	32
28) Methyl tert-Butyl Ether	2.441	73	12580	0.991	ppbv	#	86
29) Chloroform	2.842	83	33240	1.041	ppbv		99
30) Cyclohexane	3.855	84	21707	1.063	ppbv		98
31) cis-1,2-Dichloroethene	2.716	61	23828	1.041	ppbv		96
32) 1,1,1-Trichloroethane	3.360	97	35233	1.018	ppbv		97
34) 2-Butanone	2.554	43	37431	1.044	ppbv		97
35) Carbon Tetrachloride	3.758	117	34016	1.033	ppbv		96
36) Benzene	3.651	78	49652	1.033	ppbv		100
37) 1,2-Dichloroethane	3.214	62	26482	1.048	ppbv		98
38) Trichloroethene	4.538	130	23906	1.001	ppbv		98
39) 1,2-Dichloropropane	4.311	63	18493m	1.053	ppbv		
40) 1,4-Dioxane	4.583	88	8804m	1.080	ppbv		
41) Tetrahydrofuran	3.055	42	20845	1.011	ppbv		98
42) Bromodichloromethane	4.480	83	35768m	1.016	ppbv		
43) Methyl Methacrylate	4.871	69	20289	1.040	ppbv		98
44) 2,2,4-Trimethylpentane	4.635	57	84970	1.023	ppbv		96
45) t-1,3-Dichloropropene	6.402	75	21210m	1.011	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042952.D
Acq On : 22 Sep 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	27025m	1.011	ppbv		
47) 1,1,2-Trichloroethane	6.574	97	19311	1.041	ppbv		96
48) Dibromochloromethane	7.383	129	30015	1.012	ppbv		99
49) Bromoform	9.477	173	25929	1.005	ppbv		98
50) 4-Methyl-2-Pentanone	5.748	43	48546	1.007	ppbv		98
51) 2-Hexanone	7.431	43	39627	1.034	ppbv	#	99
52) Tetrachloroethene	8.218	164	18188	0.978	ppbv		97
53) Toluene	6.926	91	58200	1.023	ppbv		100
54) 1,2-Dibromoethane	7.645	107	26608	1.020	ppbv		94
56) 1,1,1,2-Tetrachloroethane	8.920	131	22802	1.015	ppbv		94
57) Chlorobenzene	8.914	112	45873	1.071	ppbv		98
58) Ethyl Benzene	9.351	91	80473	1.044	ppbv		97
59) m/p-Xylene	9.529	91	128139m	2.108	ppbv		
60) o-Xylene	9.959	91	64703	1.066	ppbv		99
61) Styrene	9.869	104	29061	1.012	ppbv		98
62) Isopropylbenzene	10.535	105	96621	1.068	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.959	83	31695	0.993	ppbv		96
64) n-propylbenzene	10.985	120	24820	1.049	ppbv		98
65) tert-Butylbenzene	11.526	119	86303	1.072	ppbv		99
66) Benzyl Chloride	11.610	91	8140	0.964	ppbv		100
67) sec-Butylbenzene	11.762	105	120070	1.070	ppbv		100
69) p-Isopropyltoluene	11.921	119	101749	1.074	ppbv		99
70) n-Butylbenzene	12.277	91	98908	1.069	ppbv		99
71) 2-Chlorotoluene	10.895	91	70577	1.033	ppbv		98
72) 4-Ethyltoluene	11.121	105	79095	1.040	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	63174	1.024	ppbv		98
74) 1,2,4-Trimethylbenzene	11.532	105	71411	1.049	ppbv		95
75) 1,3-Dichlorobenzene	11.603	146	44769	1.060	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	42879	1.022	ppbv		97
77) 1,2-Dichlorobenzene	11.940	146	42911	1.068	ppbv		98
78) Hexachloro-1,3-Butadiene	13.879	225	34798	1.107	ppbv		99
79) Naphthalene	13.510	128	61925	1.028	ppbv		98
80) Naphthalene,2-methyl-	14.455	142	17116	0.920	ppbv		97
81) 1,2,4-Trichlorobenzene	13.435	180	32411	1.007	ppbv		97

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

Quantitation Report (QT Reviewed)

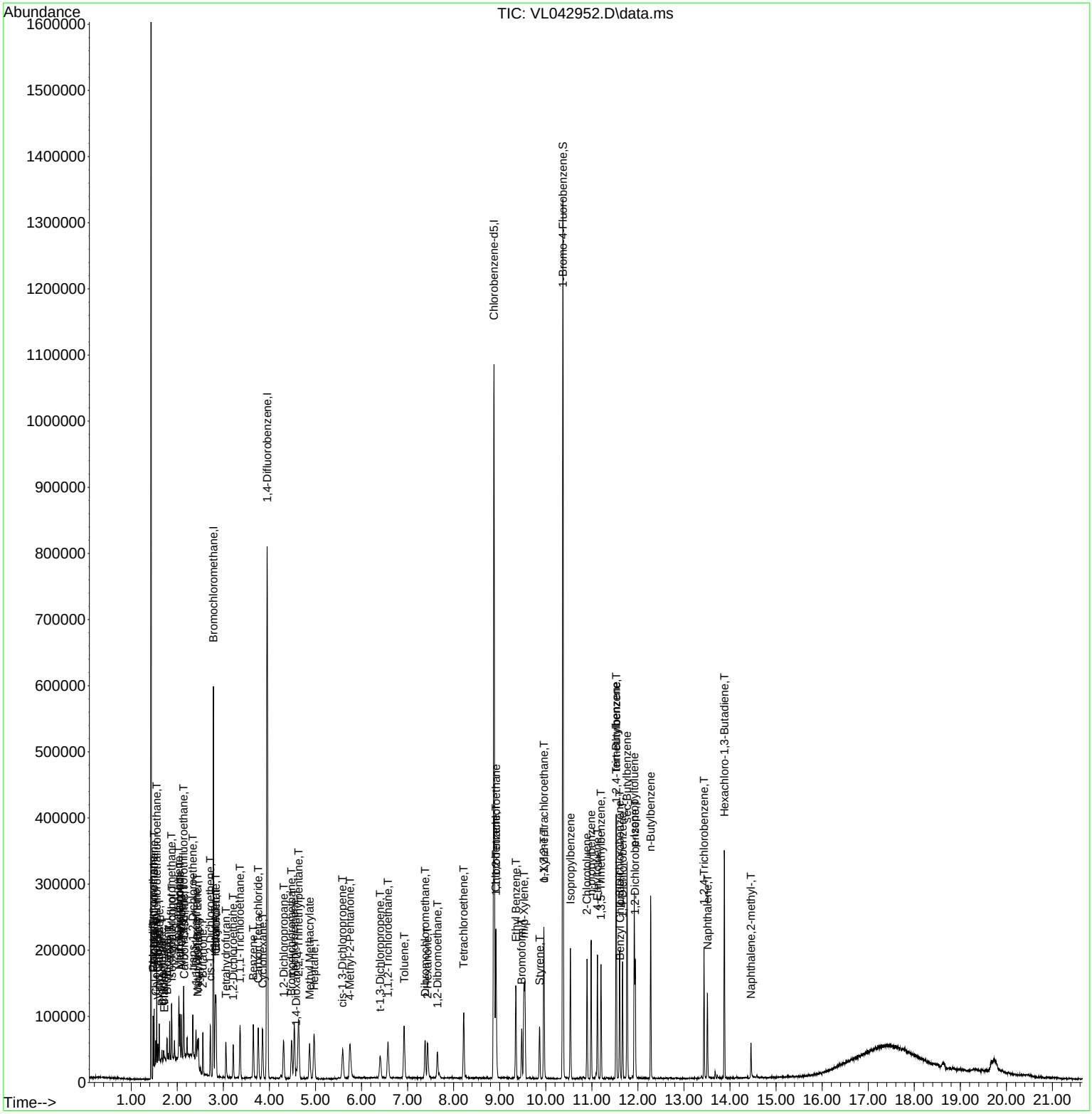
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042952.D
Acq On : 22 Sep 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042953.D
Acq On : 22 Sep 2025 11:22
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:11:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	165435	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	509306	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	464091	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	347374	10.027	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	11508	0.517	ppbv		96
3) Chlorodifluoromethane	1.476	51	14744	0.532	ppbv	#	90
4) Chloromethane	1.534	50	5729	0.569	ppbv		97
5) Vinyl Chloride	1.580	62	4373	0.480	ppbv		93
6) Bromomethane	1.667	94	1850	0.576	ppbv		100
7) Chloroethane	1.703	64	1936	0.548	ppbv	#	87
8) Dichlorotetrafluoroethane	1.554	85	10149	0.534	ppbv		96
9) Propene	1.483	41	6482	0.537	ppbv		94
10) Heptane	4.978	43	17388m	0.537	ppbv		
11) Trichlorofluoromethane	1.877	101	11200	0.522	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.140	101	9346	0.538	ppbv		100
13) Ethanol	1.719	45	629m	0.544	ppbv		
14) Bromoethene	1.784	108	3553	0.541	ppbv	#	84
15) Acetone	1.835	43	12326	0.572	ppbv	#	86
16) 1,3-Butadiene	1.609	39	6215	0.611	ppbv	#	82
17) tert-Butyl alcohol	2.043	59	13128	0.555	ppbv	#	77
18) 1,1-Dichloroethene	2.033	96	4543	0.565	ppbv		93
19) Isopropyl Alcohol	1.887	45	7431	0.574	ppbv	#	46
20) Methylene Chloride	2.062	84	6881	0.430	ppbv		87
21) Allyl Chloride	2.098	41	7481	0.499	ppbv	#	69
22) trans-1,2-Dichloroethene	2.337	96	4869m	0.533	ppbv		
23) Vinyl Acetate	2.460	43	18264	0.593	ppbv	#	95
24) 1,1-Dichloroethane	2.408	63	9484	0.529	ppbv	#	98
25) Ethyl Acetate	2.836	43	28162	0.517	ppbv	#	95
26) Hexane	2.823	57	13406	0.540	ppbv		98
27) Carbon Disulfide	2.149	76	11535	0.518	ppbv	#	1
28) Methyl tert-Butyl Ether	2.441	73	7886	0.611	ppbv	#	65
29) Chloroform	2.845	83	17188	0.530	ppbv		100
30) Cyclohexane	3.855	84	10856	0.523	ppbv		93
31) cis-1,2-Dichloroethene	2.719	61	11939	0.513	ppbv		99
32) 1,1,1-Trichloroethane	3.366	97	16684	0.474	ppbv		96
34) 2-Butanone	2.557	43	18948	0.531	ppbv		96
35) Carbon Tetrachloride	3.761	117	16799	0.513	ppbv		94
36) Benzene	3.654	78	24807	0.519	ppbv	#	95
37) 1,2-Dichloroethane	3.217	62	12788	0.508	ppbv		100
38) Trichloroethene	4.544	130	12243	0.515	ppbv	#	88
39) 1,2-Dichloropropane	4.315	63	8772	0.502	ppbv	#	86
40) 1,4-Dioxane	4.599	88	4405m	0.543	ppbv		
41) Tetrahydrofuran	3.059	42	10871	0.530	ppbv		95
42) Bromodichloromethane	4.486	83	17552	0.501	ppbv		96
43) Methyl Methacrylate	4.881	69	10330m	0.532	ppbv		
44) 2,2,4-Trimethylpentane	4.642	57	43414m	0.525	ppbv		
45) t-1,3-Dichloropropene	6.409	75	10262m	0.492	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042953.D
Acq On : 22 Sep 2025 11:22
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:11:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.593	75	13304m	0.500	ppbv		
47)	1,1,2-Trichloroethane	6.580	97	9725m	0.527	ppbv		
48)	Dibromochloromethane	7.383	129	14563	0.493	ppbv		99
49)	Bromoform	9.480	173	12136	0.473	ppbv		97
50)	4-Methyl-2-Pentanone	5.761	43	23639	0.493	ppbv		95
51)	2-Hexanone	7.441	43	18322	0.480	ppbv	#	97
52)	Tetrachloroethene	8.218	164	9073m	0.490	ppbv		
53)	Toluene	6.927	91	29404	0.519	ppbv		99
54)	1,2-Dibromoethane	7.648	107	13233	0.510	ppbv		98
56)	1,1,1,2-Tetrachloroethane	8.924	131	11535	0.519	ppbv	#	1
57)	Chlorobenzene	8.920	112	22463	0.530	ppbv		91
58)	Ethyl Benzene	9.351	91	38459	0.505	ppbv		96
59)	m/p-Xylene	9.545	91	61801m	1.028	ppbv		
60)	o-Xylene	9.959	91	30976	0.516	ppbv		98
61)	Styrene	9.865	104	14048	0.495	ppbv		98
62)	Isopropylbenzene	10.535	105	46640	0.521	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.959	83	15974	0.506	ppbv		97
64)	n-propylbenzene	10.985	120	12333	0.527	ppbv		100
65)	tert-Butylbenzene	11.529	119	42595	0.535	ppbv		99
66)	Benzyl Chloride	11.613	91	3942m	0.472	ppbv		
67)	sec-Butylbenzene	11.765	105	58190	0.525	ppbv		99
69)	p-Isopropyltoluene	11.924	119	48855	0.521	ppbv		100
70)	n-Butylbenzene	12.280	91	44764	0.489	ppbv		100
71)	2-Chlorotoluene	10.898	91	35797	0.530	ppbv		96
72)	4-Ethyltoluene	11.125	105	39803	0.529	ppbv		99
73)	1,3,5-Trimethylbenzene	11.202	105	30932	0.507	ppbv		96
74)	1,2,4-Trimethylbenzene	11.532	105	35601	0.529	ppbv		97
75)	1,3-Dichlorobenzene	11.607	146	21307	0.510	ppbv		98
76)	1,4-Dichlorobenzene	11.668	146	21404	0.516	ppbv		98
77)	1,2-Dichlorobenzene	11.943	146	20279	0.510	ppbv		95
78)	Hexachloro-1,3-Butadiene	13.879	225	17515	0.563	ppbv		98
79)	Naphthalene	13.510	128	25577	0.429	ppbv		97
80)	Naphthalene,2-methyl-	14.458	142	8906	0.484	ppbv		92
81)	1,2,4-Trichlorobenzene	13.439	180	12920	0.406	ppbv		98

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

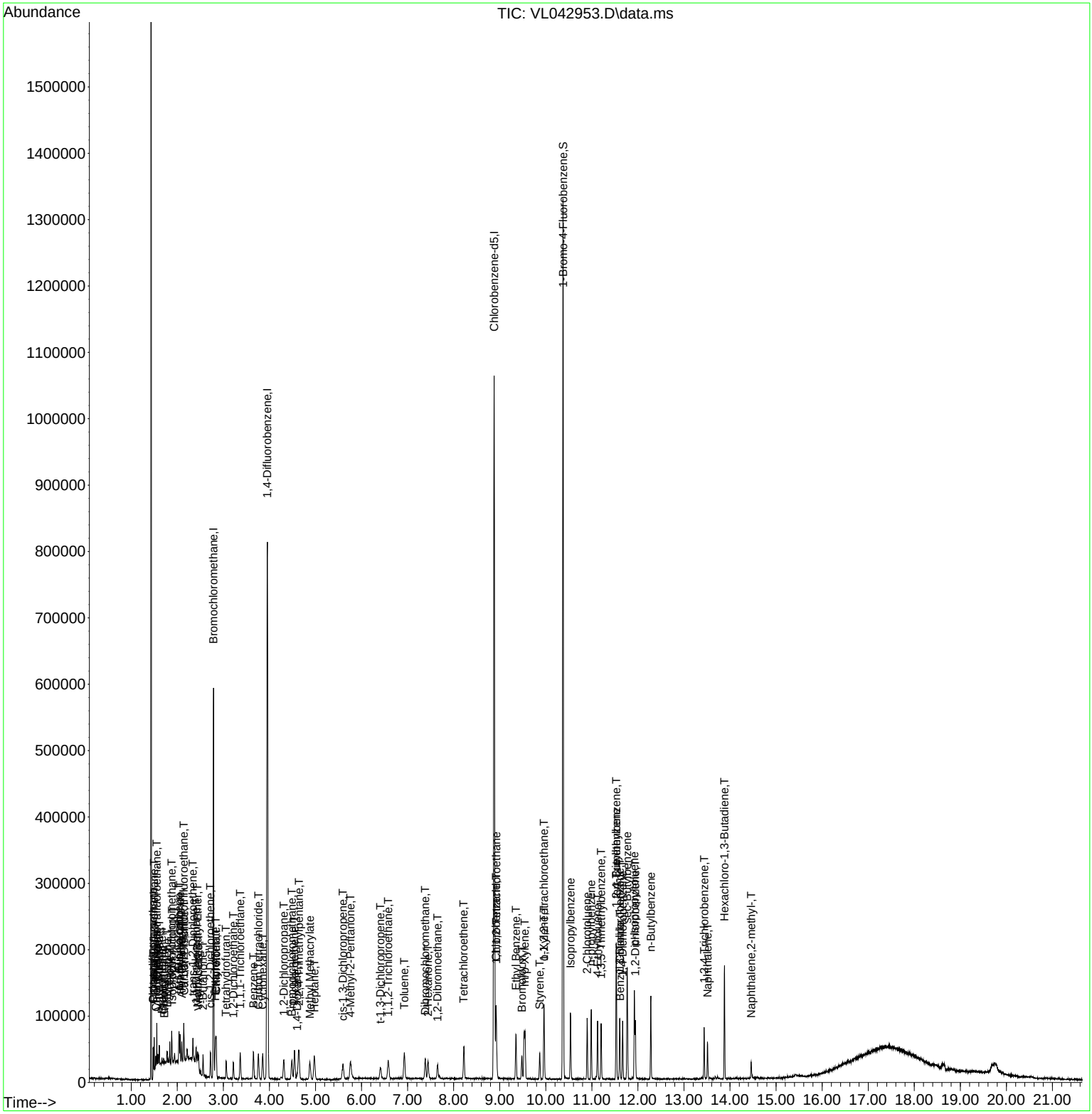
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042953.D
Acq On : 22 Sep 2025 11:22
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:11:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042954.D
Acq On : 22 Sep 2025 11:56
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	163771	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	498673	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	457171	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	337196	9.881	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.800%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	920	0.102	ppbv #	75
32) 1,1,1-Trichloroethane	3.370	97	3418	0.098	ppbv	96
35) Carbon Tetrachloride	3.764	117	3071m	0.096	ppbv	
38) Trichloroethene	4.541	130	2470m	0.106	ppbv	
52) Tetrachloroethene	8.228	164	2013m	0.111	ppbv	
54) 1,2-Dibromoethane	7.655	107	2595m	0.102	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3301	0.106	ppbv	97
79) Naphthalene	13.516	128	4997m	0.085	ppbv	

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

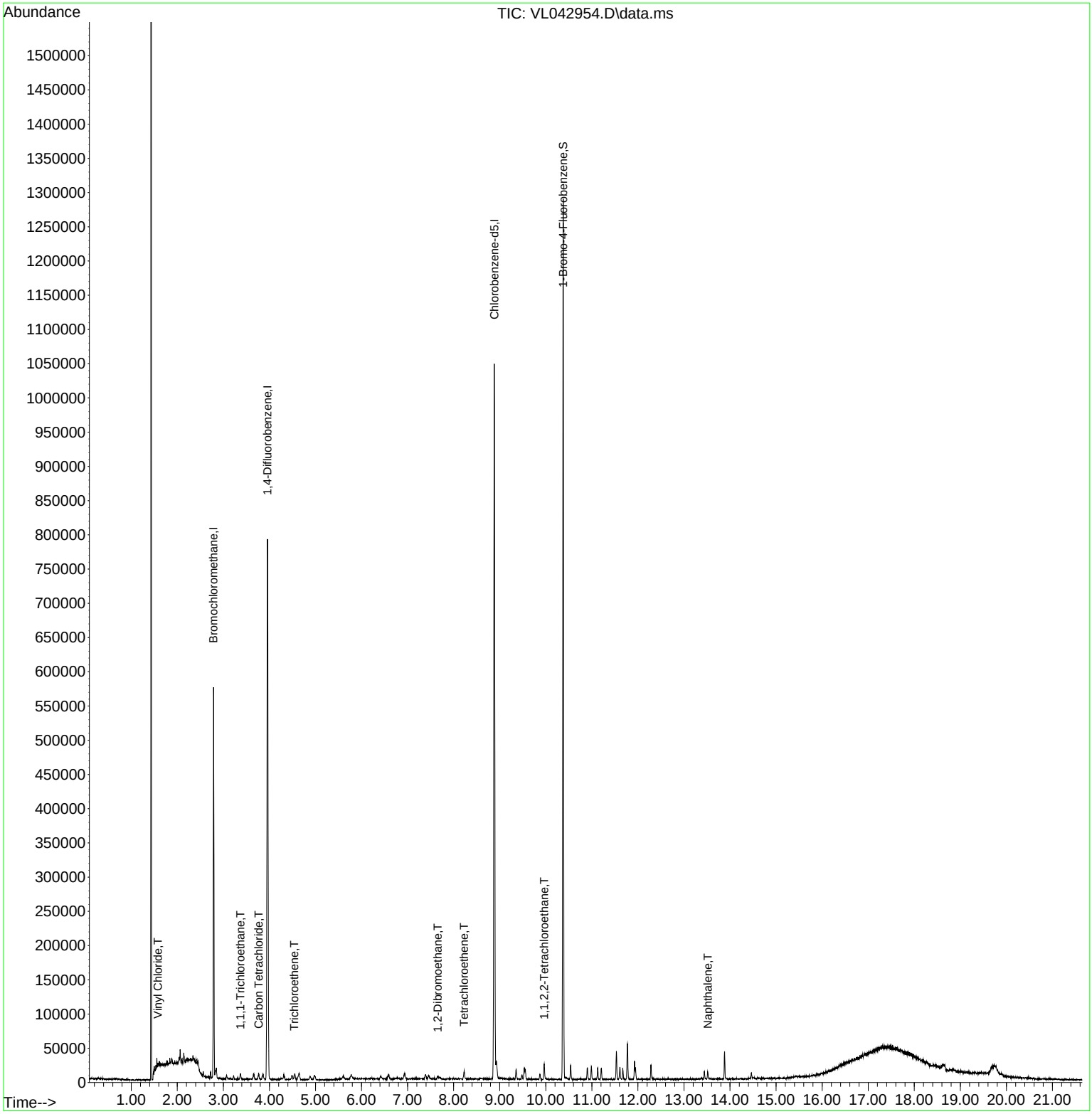
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042954.D
Acq On : 22 Sep 2025 11:56
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042955.D
Acq On : 22 Sep 2025 12:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:13:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	163615	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	504423	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	454013	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	334002	9.855	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.600%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	358	0.040	ppbv	# 53
32) 1,1,1-Trichloroethane	3.373	97	1337m	0.038	ppbv	
35) Carbon Tetrachloride	3.761	117	1110m	0.034	ppbv	
38) Trichloroethene	4.551	130	797m	0.034	ppbv	
52) Tetrachloroethene	8.231	164	660m	0.036	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.959	83	1098m	0.036	ppbv	

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

Quantitation Report (QT Reviewed)

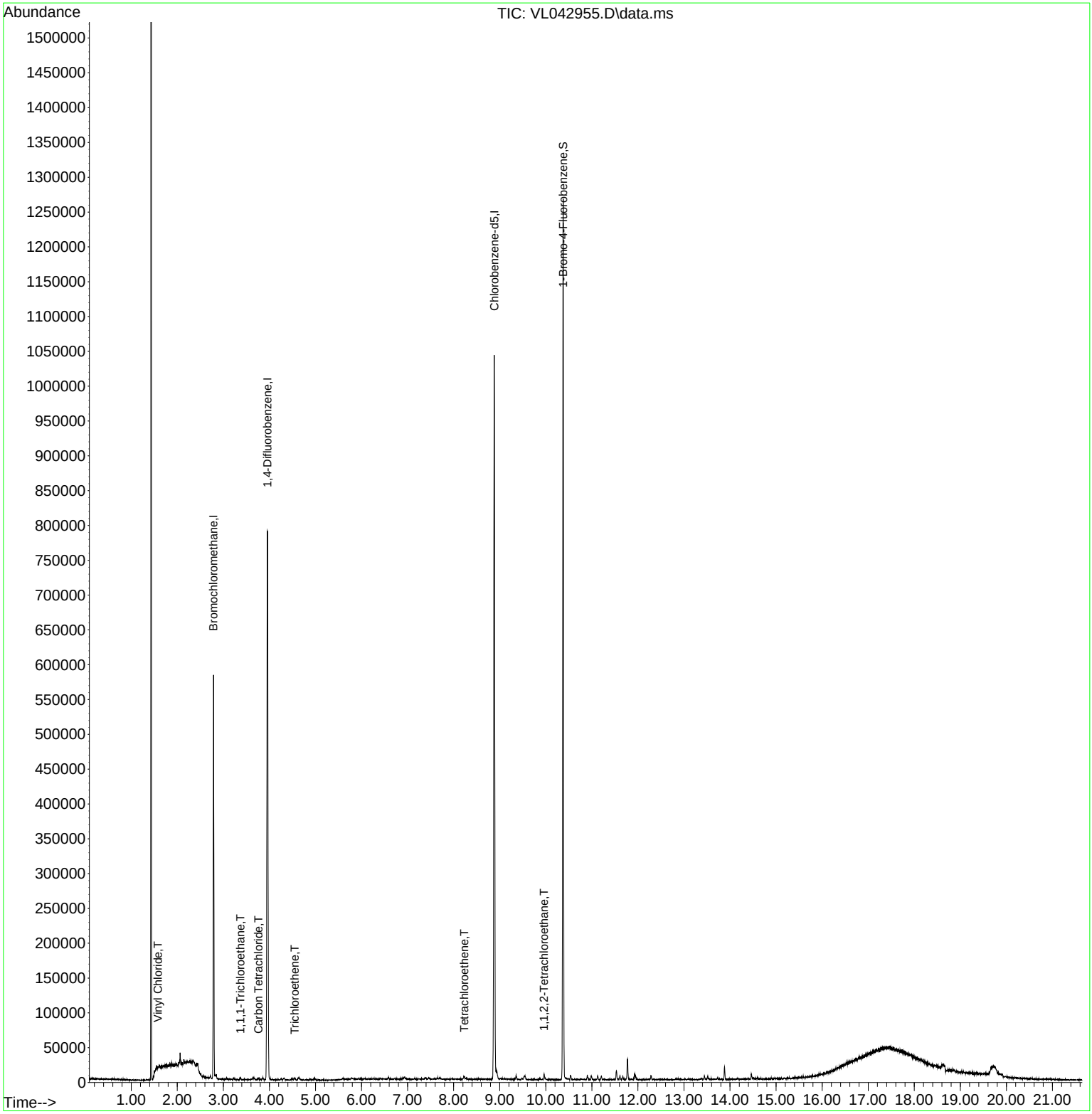
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042955.D
Acq On : 22 Sep 2025 12:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:13:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042956.D
Acq On : 22 Sep 2025 13:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:14:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	162846	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	494779	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	458256	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	343752	10.049	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	300946	13.740	ppbv	97
3) Chlorodifluoromethane	1.476	51	364959	13.369	ppbv	100
4) Chloromethane	1.534	50	133240	13.439	ppbv	99
5) Vinyl Chloride	1.583	62	115257	12.860	ppbv	100
6) Bromomethane	1.670	94	40861	12.925	ppbv	94
7) Chloroethane	1.706	64	46081	13.241	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	255815	13.682	ppbv	98
9) Propene	1.486	41	154069	12.973	ppbv	94
10) Heptane	4.985	43	424500	13.327	ppbv	98
11) Trichlorofluoromethane	1.881	101	295479	13.991	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	237615	13.894	ppbv	99
13) Ethanol	1.722	45	11502	10.105	ppbv	99
14) Bromoethene	1.784	108	88375	13.668	ppbv	100
15) Acetone	1.835	43	244861	11.545	ppbv	97
16) 1,3-Butadiene	1.612	39	126670	12.661	ppbv	97
17) tert-Butyl alcohol	2.039	59	308347	13.255	ppbv	99
18) 1,1-Dichloroethene	2.036	96	109211	13.796	ppbv	99
19) Isopropyl Alcohol	1.887	45	162952	12.780	ppbv	100
20) Methylene Chloride	2.062	84	92708	14.996	ppbv	95
21) Allyl Chloride	2.098	41	204552	13.848	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	121815	13.542	ppbv	98
23) Vinyl Acetate	2.463	43	419251	13.837	ppbv	99
24) 1,1-Dichloroethane	2.411	63	243229	13.789	ppbv	99
25) Ethyl Acetate	2.835	43	724418	13.514	ppbv	99
26) Hexane	2.829	57	321710	13.166	ppbv	99
27) Carbon Disulfide	2.153	76	300931	13.731	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	193915	15.267	ppbv	94
29) Chloroform	2.852	83	440772	13.796	ppbv	98
30) Cyclohexane	3.858	84	281932	13.800	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	317456	13.869	ppbv	98
32) 1,1,1-Trichloroethane	3.369	97	456335	13.178	ppbv	99
34) 2-Butanone	2.557	43	469872	13.551	ppbv	99
35) Carbon Tetrachloride	3.764	117	457985	14.385	ppbv	97
36) Benzene	3.658	78	654205	14.080	ppbv	99
37) 1,2-Dichloroethane	3.221	62	350841	14.358	ppbv	100
38) Trichloroethene	4.548	130	310602	13.450	ppbv	97
39) 1,2-Dichloropropane	4.315	63	241323	14.218	ppbv	95
40) 1,4-Dioxane	4.580	88	104884	13.306	ppbv #	98
41) Tetrahydrofuran	3.052	42	276157	13.855	ppbv	99
42) Bromodichloromethane	4.489	83	495091	14.544	ppbv	98
43) Methyl Methacrylate	4.881	69	263659	13.979	ppbv	99
44) 2,2,4-Trimethylpentane	4.641	57	1107180	13.791	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	298019	14.694	ppbv	96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042956.D
Acq On : 22 Sep 2025 13:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:14:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	371770	14.389	ppbv	99
47) 1,1,2-Trichloroethane	6.583	97	249453	13.909	ppbv	96
48) Dibromochloromethane	7.389	129	421755	14.709	ppbv	99
49) Bromoform	9.487	173	367120	14.719	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	666049	14.293	ppbv	100
51) 2-Hexanone	7.435	43	541611	14.620	ppbv	100
52) Tetrachloroethene	8.228	164	233980	13.015	ppbv	99
53) Toluene	6.936	91	765216	13.915	ppbv	98
54) 1,2-Dibromoethane	7.652	107	359750	14.261	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	306952	13.994	ppbv	99
57) Chlorobenzene	8.924	112	565065	13.507	ppbv	98
58) Ethyl Benzene	9.357	91	1052303	13.985	ppbv	99
59) m/p-Xylene	9.555	91	1636030m	27.557	ppbv	
60) o-Xylene	9.966	91	808098	13.629	ppbv	100
61) Styrene	9.872	104	401899	14.330	ppbv	99
62) Isopropylbenzene	10.542	105	1198767	13.564	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	403038	12.932	ppbv	100
64) n-propylbenzene	10.992	120	318541	13.793	ppbv	97
65) tert-Butylbenzene	11.532	119	1033382	13.146	ppbv	100
66) Benzyl Chloride	11.616	91	113549	13.767	ppbv	99
67) sec-Butylbenzene	11.769	105	1454158	13.276	ppbv	99
69) p-Isopropyltoluene	11.927	119	1228773	13.280	ppbv	100
70) n-Butylbenzene	12.283	91	1239042	13.716	ppbv	99
71) 2-Chlorotoluene	10.904	91	916456	13.733	ppbv	100
72) 4-Ethyltoluene	11.128	105	1014567	13.662	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	845958	14.046	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	889339	13.372	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	568597	13.785	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	570104	13.916	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	536286	13.665	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	377435	12.296	ppbv	99
79) Naphthalene	13.513	128	920123	15.645	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	277792	15.290	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	473767	15.066	ppbv	99

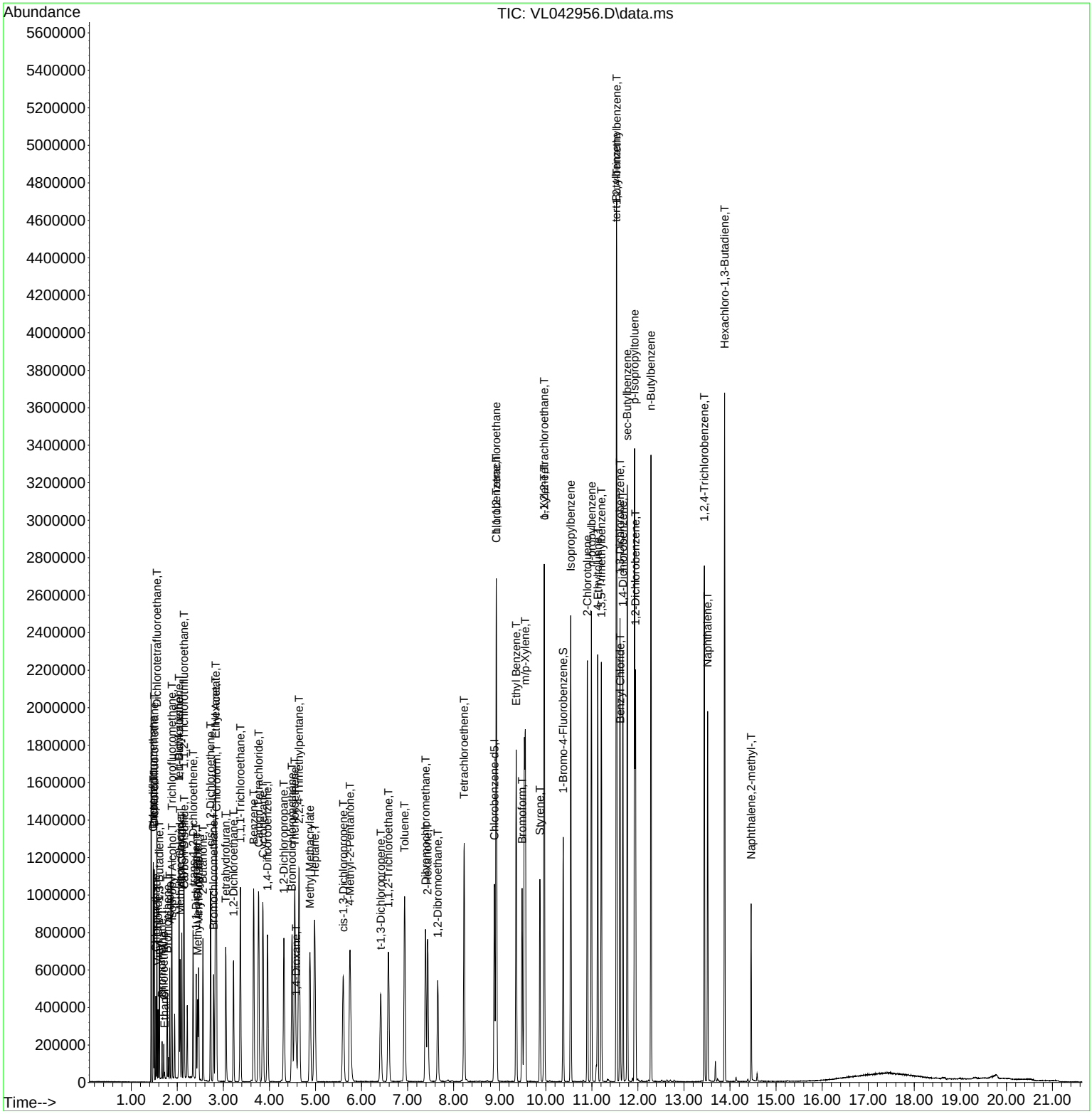
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042956.D
Acq On : 22 Sep 2025 13:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:14:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	159826	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	493072	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	450930	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	338071	10.043	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	197861	9.204	ppbv	98
3) Chlorodifluoromethane	1.476	51	246838	9.213	ppbv	99
4) Chloromethane	1.535	50	85932	8.831	ppbv	100
5) Vinyl Chloride	1.580	62	74819	8.506	ppbv	98
6) Bromomethane	1.667	94	26463	8.529	ppbv	91
7) Chloroethane	1.706	64	30377	8.894	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	164255	8.951	ppbv	98
9) Propene	1.483	41	105822	9.079	ppbv	95
10) Heptane	4.982	43	284333	9.141	ppbv	99
11) Trichlorofluoromethane	1.878	101	189800	9.157	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	151398	9.020	ppbv	99
13) Ethanol	1.722	45	6606	5.842	ppbv	90
14) Bromoethene	1.781	108	55748	8.785	ppbv	98
15) Acetone	1.836	43	157306	7.557	ppbv	98
16) 1,3-Butadiene	1.609	39	80854	8.234	ppbv	98
17) tert-Butyl alcohol	2.040	59	206466	9.043	ppbv	100
18) 1,1-Dichloroethene	2.036	96	69181	8.904	ppbv	94
19) Isopropyl Alcohol	1.884	45	108171	8.644	ppbv	100
20) Methylene Chloride	2.062	84	61743	9.945	ppbv	98
21) Allyl Chloride	2.098	41	132878	9.166	ppbv	100
22) trans-1,2-Dichloroethene	2.341	96	78085	8.845	ppbv	98
23) Vinyl Acetate	2.464	43	280339	9.427	ppbv	99
24) 1,1-Dichloroethane	2.409	63	155861	9.003	ppbv	100
25) Ethyl Acetate	2.833	43	486993	9.256	ppbv	99
26) Hexane	2.826	57	216458	9.026	ppbv	99
27) Carbon Disulfide	2.150	76	196191	9.121	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	121564	9.752	ppbv	95
29) Chloroform	2.849	83	300507	9.583	ppbv	100
30) Cyclohexane	3.855	84	186186	9.286	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	213362	9.497	ppbv	99
32) 1,1,1-Trichloroethane	3.370	97	307237	9.071	ppbv	100
34) 2-Butanone	2.558	43	313801	9.081	ppbv	100
35) Carbon Tetrachloride	3.762	117	304293	9.479	ppbv	97
36) Benzene	3.655	78	435981	9.416	ppbv	98
37) 1,2-Dichloroethane	3.218	62	233305	9.581	ppbv	99
38) Trichloroethene	4.548	130	205431	8.927	ppbv	95
39) 1,2-Dichloropropane	4.312	63	160275	9.482	ppbv	95
40) 1,4-Dioxane	4.577	88	69659	8.863	ppbv #	95
41) Tetrahydrofuran	3.053	42	184258	9.277	ppbv	100
42) Bromodichloromethane	4.490	83	329680	9.721	ppbv	99
43) Methyl Methacrylate	4.878	69	172867	9.125	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	738876	9.239	ppbv	99
45) t-1,3-Dichloropropene	6.416	75	188332	9.321	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	244367	9.490	ppbv	99
47) 1,1,2-Trichloroethane	6.577	97	165721	9.279	ppbv	97
48) Dibromochloromethane	7.387	129	278090	9.732	ppbv	99
49) Bromoform	9.484	173	238337	9.589	ppbv	99
50) 4-Methyl-2-Pentanone	5.746	43	435845	9.411	ppbv	99
51) 2-Hexanone	7.435	43	352962	9.561	ppbv	100
52) Tetrachloroethene	8.225	164	155469	8.678	ppbv	98
53) Toluene	6.933	91	509968	9.306	ppbv	99
54) 1,2-Dibromoethane	7.652	107	237604	9.452	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.924	131	205811	9.536	ppbv	99
57) Chlorobenzene	8.924	112	379110	9.209	ppbv	99
58) Ethyl Benzene	9.354	91	698086	9.428	ppbv	100
59) m/p-Xylene	9.552	91	1092496m	18.715	ppbv	
60) o-Xylene	9.966	91	538861	9.236	ppbv	99
61) Styrene	9.872	104	264257	9.575	ppbv	99
62) Isopropylbenzene	10.539	105	802723	9.230	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	272416	8.883	ppbv	100
64) n-propylbenzene	10.989	120	214374	9.433	ppbv	99
65) tert-Butylbenzene	11.533	119	711319	9.196	ppbv	99
66) Benzyl Chloride	11.617	91	71896	8.858	ppbv	99
67) sec-Butylbenzene	11.769	105	995407	9.235	ppbv	99
69) p-Isopropyltoluene	11.928	119	848196	9.316	ppbv	99
70) n-Butylbenzene	12.280	91	834882	9.392	ppbv	100
71) 2-Chlorotoluene	10.902	91	611697	9.315	ppbv	100
72) 4-Ethyltoluene	11.125	105	686229	9.391	ppbv	100
73) 1,3,5-Trimethylbenzene	11.203	105	567874	9.582	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	607159	9.277	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	380822	9.382	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	380109	9.429	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	359995	9.322	ppbv	100
78) Hexachloro-1,3-Butadiene	13.883	225	249142	8.248	ppbv	100
79) Naphthalene	13.514	128	590759	10.208	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	173023	9.678	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	304647	9.845	ppbv	98

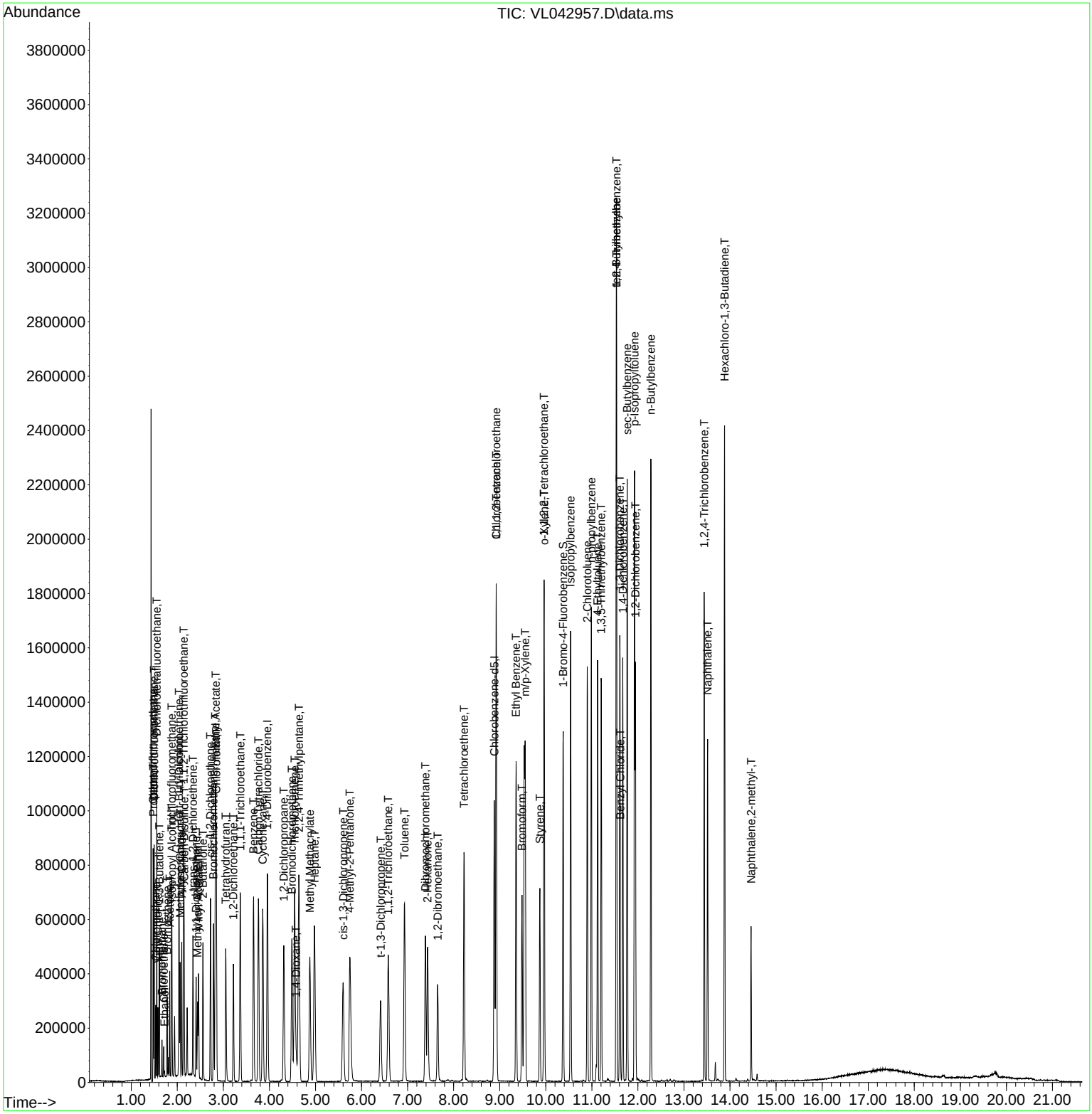
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	1.345	1.238	8.0	93	0.00
3		Chlorodifluoromethane	1.676	1.544	7.9	92	0.00
4		Chloromethane	0.609	0.538	11.7	90	0.00
5	T	Vinyl Chloride	0.550	0.468	14.9	93	0.00
6	T	Bromomethane	0.194	0.166	14.4	94	0.00
7		Chloroethane	0.214	0.190	11.2	91	0.00
8	T	Dichlorotetrafluoroethane	1.148	1.028	10.5	92	0.00
9	T	Propene	0.729	0.662	9.2	91	0.00
10	T	Heptane	1.946	1.779	8.6	89	0.01
11	T	Trichlorofluoromethane	1.297	1.188	8.4	93	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.050	0.947	9.8	92	0.00
13		Ethanol	0.071	0.041#	42.3#	73	0.00
14	T	Bromoethene	0.397	0.349	12.1	90	0.00
15	T	Acetone	1.302	0.984	24.4	93	0.00
16	T	1,3-Butadiene	0.614	0.506	17.6	91	0.00
17		tert-Butyl alcohol	1.429	1.292	9.6	89	0.00
18	T	1,1-Dichloroethene	0.486	0.433	10.9	91	0.00
19	T	Isopropyl Alcohol	0.783	0.677	13.5	88	0.00
20	T	Methylene Chloride	0.545	0.386	29.2	93	0.00
21	T	Allyl Chloride	0.907	0.831	8.4	91	0.00
22	T	trans-1,2-Dichloroethene	0.552	0.489	11.4	90	0.00
23	T	Vinyl Acetate	1.861	1.754	5.7	103	0.00
24	T	1,1-Dichloroethane	1.083	0.975	10.0	92	0.00
25	T	Ethyl Acetate	3.292	3.047	7.4	90	0.00
26	T	Hexane	1.501	1.354	9.8	91	0.00
27	T	Carbon Disulfide	1.346	1.228	8.8	90	0.00
28	T	Methyl tert-Butyl Ether	0.780	0.761	2.4	112	0.00
29	T	Chloroform	1.962	1.880	4.2	95	0.00
30	T	Cyclohexane	1.255	1.165	7.2	91	0.00
31	T	cis-1,2-Dichloroethene	1.406	1.335	5.0	92	0.00
32	T	1,1,1-Trichloroethane	2.119	1.922	9.3	95	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
34	T	2-Butanone	0.701	0.636	9.3	91	0.00
35	T	Carbon Tetrachloride	0.651	0.617	5.2	95	0.00
36	T	Benzene	0.939	0.884	5.9	92	0.00
37	T	1,2-Dichloroethane	0.494	0.473	4.3	94	0.00
38	T	Trichloroethene	0.467	0.417	10.7	91	0.00
39	T	1,2-Dichloropropane	0.343	0.325	5.2	93	0.00
40	T	1,4-Dioxane	0.159	0.141	11.3	89	0.00
41	T	Tetrahydrofuran	0.403	0.374	7.2	90	0.00
42	T	Bromodichloromethane	0.688	0.669	2.8	92	0.00
43		Methyl Methacrylate	0.384	0.351	8.6	89	0.00
44	T	2,2,4-Trimethylpentane	1.622	1.499	7.6	90	0.00
45	T	t-1,3-Dichloropropene	0.410	0.382	6.8	88	0.00
46	T	cis-1,3-Dichloropropene	0.522	0.496	5.0	89	0.01
47	T	1,1,2-Trichloroethane	0.362	0.336	7.2	91	0.00
48	T	Dibromochloromethane	0.580	0.564	2.8	93	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 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	0.504	0.483	4.2	89	0.00
50	T	4-Methyl-2-Pentanone	0.939	0.884	5.9	89	0.00
51	T	2-Hexanone	0.749	0.716	4.4	89	0.00
52	T	Tetrachloroethene	0.363	0.315	13.2	91	0.00
53	T	Toluene	1.111	1.034	6.9	90	0.00
54	T	1,2-Dibromoethane	0.510	0.482	5.5	92	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	0.479	0.456	4.8	92	0.00
57	T	Chlorobenzene	0.913	0.841	7.9	91	0.00
58	T	Ethyl Benzene	1.642	1.548	5.7	91	0.00
59	T	m/p-Xylene	1.295	1.211	6.5	92	0.03
60	T	o-Xylene	1.294	1.195	7.7	91	0.00
61	T	Styrene	0.612	0.586	4.2	90	0.00
62		Isopropylbenzene	1.929	1.780	7.7	91	0.00
63	T	1,1,2,2-Tetrachloroethane	0.680	0.604	11.2	92	0.00
64		n-propylbenzene	0.504	0.475	5.8	93	0.00
65		tert-Butylbenzene	1.715	1.577	8.0	94	0.00
66	T	Benzyl Chloride	0.180	0.159	11.7	76	0.00
67		sec-Butylbenzene	2.390	2.207	7.7	93	0.00
68	S	1-Bromo-4-Fluorobenzene	0.746	0.750	-0.5	91	0.00
69		p-Isopropyltoluene	2.019	1.881	6.8	94	0.00
70		n-Butylbenzene	1.971	1.851	6.1	91	0.00
71		2-Chlorotoluene	1.456	1.357	6.8	92	0.00
72	T	4-Ethyltoluene	1.621	1.522	6.1	93	0.00
73	T	1,3,5-Trimethylbenzene	1.314	1.259	4.2	92	0.00
74	T	1,2,4-Trimethylbenzene	1.451	1.346	7.2	92	0.00
75	T	1,3-Dichlorobenzene	0.900	0.845	6.1	93	0.00
76	T	1,4-Dichlorobenzene	0.894	0.843	5.7	92	0.00
77	T	1,2-Dichlorobenzene	0.856	0.798	6.8	93	0.00
78	T	Hexachloro-1,3-Butadiene	0.670	0.553	17.5	89	0.00
79	T	Naphthalene	1.283	1.310	-2.1	88	0.00
80	T	Naphthalene,2-methyl-	0.396	0.384	3.0	88	0.00
81	T	1,2,4-Trichlorobenzene	0.686	0.676	1.5	87	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\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	10.000	10.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	10.000	9.204	8.0	93	0.00
3		Chlorodifluoromethane	10.000	9.213	7.9	92	0.00
4		Chloromethane	10.000	8.831	11.7	90	0.00
5	T	Vinyl Chloride	10.000	8.506	14.9	93	0.00
6	T	Bromomethane	10.000	8.529	14.7	94	0.00
7		Chloroethane	10.000	8.894	11.1	91	0.00
8	T	Dichlorotetrafluoroethane	10.000	8.951	10.5	92	0.00
9	T	Propene	10.000	9.079	9.2	91	0.00
10	T	Heptane	10.000	9.141	8.6	89	0.01
11	T	Trichlorofluoromethane	10.000	9.157	8.4	93	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.020	9.8	92	0.00
13		Ethanol	10.000	5.842	41.6#	73	0.00
14	T	Bromoethene	10.000	8.785	12.1	90	0.00
15	T	Acetone	10.000	7.557	24.4	93	0.00
16	T	1,3-Butadiene	10.000	8.234	17.7	91	0.00
17		tert-Butyl alcohol	10.000	9.043	9.6	89	0.00
18	T	1,1-Dichloroethene	10.000	8.904	11.0	91	0.00
19	T	Isopropyl Alcohol	10.000	8.644	13.6	88	0.00
20	T	Methylene Chloride	10.000	9.945	0.5	93	0.00
21	T	Allyl Chloride	10.000	9.166	8.3	91	0.00
22	T	trans-1,2-Dichloroethene	10.000	8.845	11.5	90	0.00
23	T	Vinyl Acetate	10.000	9.427	5.7	103	0.00
24	T	1,1-Dichloroethane	10.000	9.003	10.0	92	0.00
25	T	Ethyl Acetate	10.000	9.256	7.4	90	0.00
26	T	Hexane	10.000	9.026	9.7	91	0.00
27	T	Carbon Disulfide	10.000	9.121	8.8	90	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.752	2.5	112	0.00
29	T	Chloroform	10.000	9.583	4.2	95	0.00
30	T	Cyclohexane	10.000	9.286	7.1	91	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.497	5.0	92	0.00
32	T	1,1,1-Trichloroethane	10.000	9.071	9.3	95	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	94	0.00
34	T	2-Butanone	10.000	9.081	9.2	91	0.00
35	T	Carbon Tetrachloride	10.000	9.479	5.2	95	0.00
36	T	Benzene	10.000	9.416	5.8	92	0.00
37	T	1,2-Dichloroethane	10.000	9.581	4.2	94	0.00
38	T	Trichloroethene	10.000	8.927	10.7	91	0.00
39	T	1,2-Dichloropropane	10.000	9.482	5.2	93	0.00
40	T	1,4-Dioxane	10.000	8.863	11.4	89	0.00
41	T	Tetrahydrofuran	10.000	9.277	7.2	90	0.00
42	T	Bromodichloromethane	10.000	9.721	2.8	92	0.00
43		Methyl Methacrylate	10.000	9.125	8.8	89	0.00
44	T	2,2,4-Trimethylpentane	10.000	9.239	7.6	90	0.00
45	T	t-1,3-Dichloropropene	10.000	9.321	6.8	88	0.00
46	T	cis-1,3-Dichloropropene	10.000	9.490	5.1	89	0.01
47	T	1,1,2-Trichloroethane	10.000	9.279	7.2	91	0.00
48	T	Dibromochloromethane	10.000	9.732	2.7	93	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 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	9.589	4.1	89	0.00
50	T	4-Methyl-2-Pentanone	10.000	9.411	5.9	89	0.00
51	T	2-Hexanone	10.000	9.561	4.4	89	0.00
52	T	Tetrachloroethene	10.000	8.678	13.2	91	0.00
53	T	Toluene	10.000	9.306	6.9	90	0.00
54	T	1,2-Dibromoethane	10.000	9.452	5.5	92	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	10.000	9.536	4.6	92	0.00
57	T	Chlorobenzene	10.000	9.209	7.9	91	0.00
58	T	Ethyl Benzene	10.000	9.428	5.7	91	0.00
59	T	m/p-Xylene	20.000	18.715	6.4	92	0.03
60	T	o-Xylene	10.000	9.236	7.6	91	0.00
61	T	Styrene	10.000	9.575	4.3	90	0.00
62		Isopropylbenzene	10.000	9.230	7.7	91	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	8.883	11.2	92	0.00
64		n-propylbenzene	10.000	9.433	5.7	93	0.00
65		tert-Butylbenzene	10.000	9.196	8.0	94	0.00
66	T	Benzyl Chloride	10.000	8.858	11.4	76	0.00
67		sec-Butylbenzene	10.000	9.235	7.7	93	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.043	-0.4	91	0.00
69		p-Isopropyltoluene	10.000	9.316	6.8	94	0.00
70		n-Butylbenzene	10.000	9.392	6.1	91	0.00
71		2-Chlorotoluene	10.000	9.315	6.9	92	0.00
72	T	4-Ethyltoluene	10.000	9.391	6.1	93	0.00
73	T	1,3,5-Trimethylbenzene	10.000	9.582	4.2	92	0.00
74	T	1,2,4-Trimethylbenzene	10.000	9.277	7.2	92	0.00
75	T	1,3-Dichlorobenzene	10.000	9.382	6.2	93	0.00
76	T	1,4-Dichlorobenzene	10.000	9.429	5.7	92	0.00
77	T	1,2-Dichlorobenzene	10.000	9.322	6.8	93	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	8.248	17.5	89	0.00
79	T	Naphthalene	10.000	10.208	-2.1	88	0.00
80	T	Naphthalene,2-methyl-	10.000	9.678	3.2	88	0.00
81	T	1,2,4-Trichlorobenzene	10.000	9.845	1.5	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

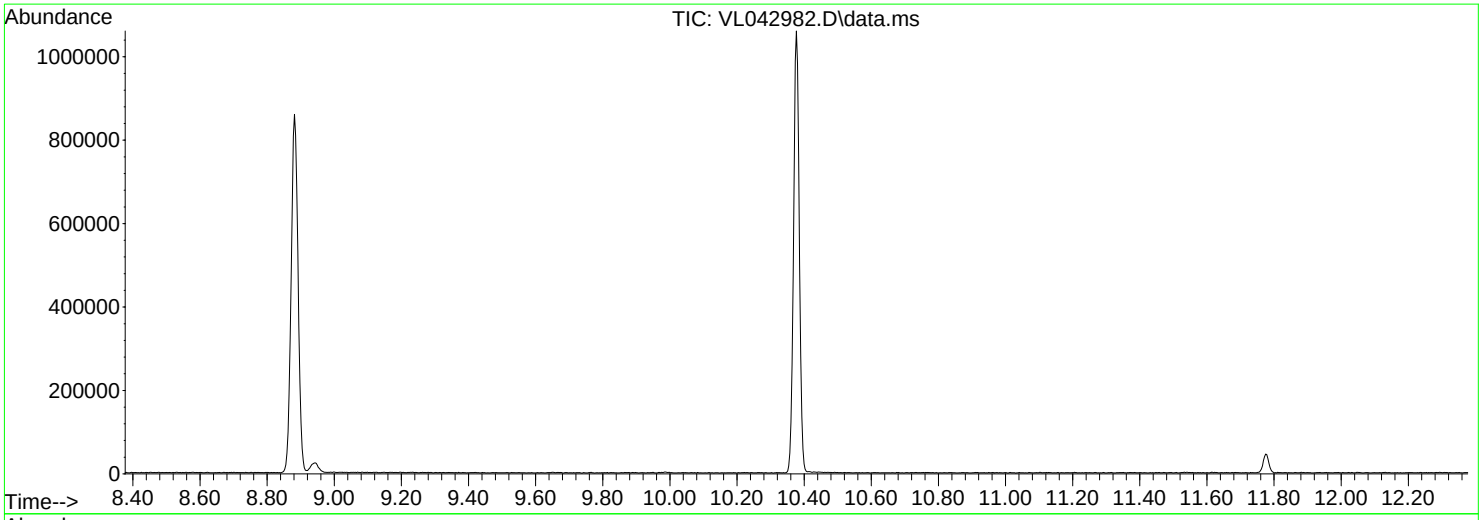
BFB

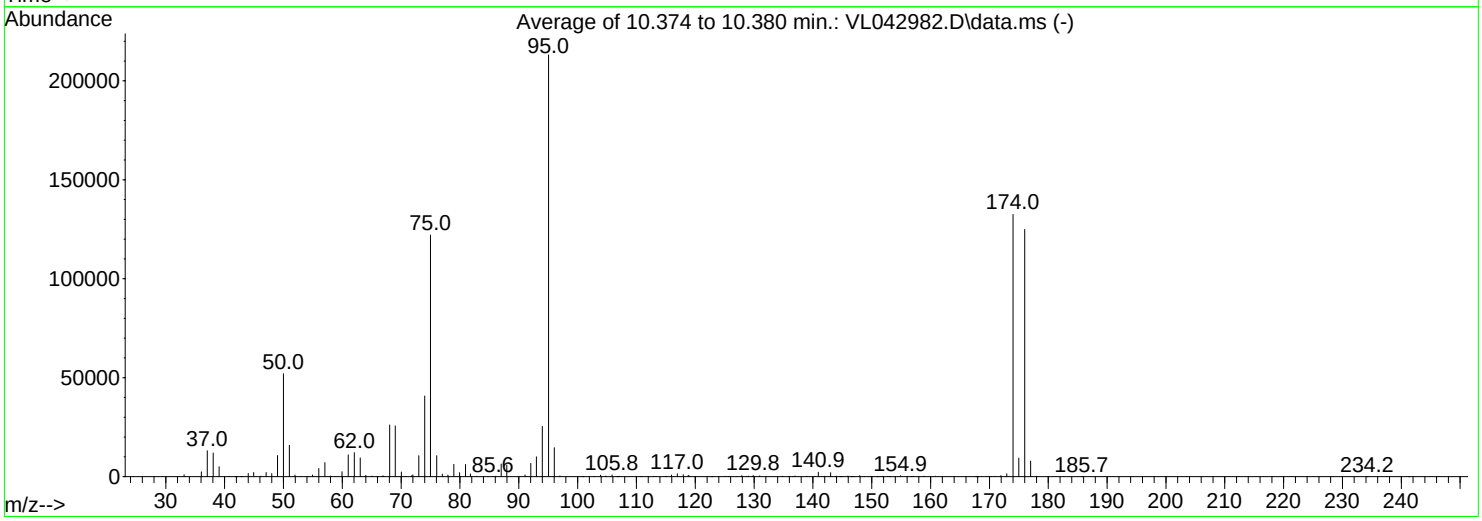
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042982.D
Acq On : 23 Sep 2025 08:30
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Sep 23 02:39:16 2025





AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.4	52027	PASS
75	95	30	66	57.3	122083	PASS
95	95	100	100	100.0	213141	PASS
96	95	5	9	6.9	14633	PASS
173	174	0.00	2	1.1	1487	PASS
174	95	50	120	62.2	132544	PASS
175	174	4	9	7.1	9369	PASS
176	174	93	101	94.3	124939	PASS
177	176	5	9	6.3	7833	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042983.D
Acq On : 23 Sep 2025 09:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 02:04:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	140159	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	397606	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	356928	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	285330	10.709	ppbv	0.01
Spiked Amount 10.000	Range 65 - 135		Recovery = 107.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	187032	9.921	ppbv	95
3) Chlorodifluoromethane	1.479	51	226561	9.643	ppbv	97
4) Chloromethane	1.534	50	78049	9.147	ppbv	99
5) Vinyl Chloride	1.583	62	67278	8.722	ppbv	100
6) Bromomethane	1.670	94	24422	8.975	ppbv	96
7) Chloroethane	1.709	64	26802	8.948	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	151817	9.434	ppbv	100
9) Propene	1.486	41	83019	8.122	ppbv	96
10) Heptane	4.991	43	242117	8.876	ppbv	99
11) Trichlorofluoromethane	1.881	101	185063	10.181	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	144385	9.809	ppbv	99
13) Ethanol	1.725	45	6504	6.559	ppbv	96
14) Bromoethene	1.787	108	51728	9.295	ppbv	98
15) Acetone	1.839	43	146605	8.031	ppbv	98
16) 1,3-Butadiene	1.612	39	74090	8.604	ppbv	97
17) tert-Butyl alcohol	2.043	59	167840	8.383	ppbv	100
18) 1,1-Dichloroethene	2.039	96	63829	9.368	ppbv	99
19) Isopropyl Alcohol	1.890	45	94735	8.633	ppbv	95
20) Methylene Chloride	2.065	84	55766	10.264	ppbv	96
21) Allyl Chloride	2.101	41	117413	9.235	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	71690	9.260	ppbv	97
23) Vinyl Acetate	2.467	43	230988	8.857	ppbv #	98
24) 1,1-Dichloroethane	2.415	63	145685	9.596	ppbv	99
25) Ethyl Acetate	2.839	43	423103	9.170	ppbv	99
26) Hexane	2.832	57	188410	8.959	ppbv	98
27) Carbon Disulfide	2.156	76	170121	9.019	ppbv	96
28) Methyl tert-Butyl Ether	2.444	73	91757	8.393	ppbv	95
29) Chloroform	2.855	83	281560	10.239	ppbv	99
30) Cyclohexane	3.862	84	158650	9.022	ppbv	97
31) cis-1,2-Dichloroethene	2.725	61	188239	9.555	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	274087	9.228	ppbv	99
34) 2-Butanone	2.560	43	279284	10.023	ppbv	99
35) Carbon Tetrachloride	3.771	117	279346	10.791	ppbv	98
36) Benzene	3.664	78	373905	10.014	ppbv	99
37) 1,2-Dichloroethane	3.224	62	224338	11.424	ppbv	97
38) Trichloroethene	4.557	130	174937	9.427	ppbv	92
39) 1,2-Dichloropropane	4.324	63	138847	10.186	ppbv	87
40) 1,4-Dioxane	4.587	88	58847	9.285	ppbv #	97
41) Tetrahydrofuran	3.059	42	152129	9.498	ppbv	100
42) Bromodichloromethane	4.499	83	297856	10.891	ppbv	97
43) Methyl Methacrylate	4.891	69	143508	9.394	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	637574	9.887	ppbv	97
45) t-1,3-Dichloropropene	6.428	75	149384	9.169	ppbv	96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042983.D
Acq On : 23 Sep 2025 09:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 02:04:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	197209	9.498	ppbv		96
47) 1,1,2-Trichloroethane	6.590	97	146175	10.149	ppbv		97
48) Dibromochloromethane	7.396	129	241948	10.500	ppbv		99
49) Bromoform	9.490	173	201373	10.047	ppbv		100
50) 4-Methyl-2-Pentanone	5.758	43	371641	9.951	ppbv		99
51) 2-Hexanone	7.444	43	299396	10.057	ppbv	#	97
52) Tetrachloroethene	8.231	164	130498	9.033	ppbv		97
53) Toluene	6.943	91	424755	9.612	ppbv		100
54) 1,2-Dibromoethane	7.661	107	210744	10.396	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.933	131	181159	10.604	ppbv		98
57) Chlorobenzene	8.930	112	332694	10.210	ppbv		99
58) Ethyl Benzene	9.364	91	602544	10.281	ppbv		98
59) m/p-Xylene	9.558	91	964478m	20.873	ppbv		
60) o-Xylene	9.972	91	484224	10.485	ppbv		99
61) Styrene	9.878	104	212504	9.728	ppbv		97
62) Isopropylbenzene	10.545	105	703444	10.219	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.969	83	246998	10.175	ppbv		100
64) n-propylbenzene	10.995	120	181920	10.113	ppbv		94
65) tert-Butylbenzene	11.536	119	612510	10.004	ppbv		97
66) Benzyl Chloride	11.623	91	38429	5.982	ppbv		98
67) sec-Butylbenzene	11.772	105	877873	10.290	ppbv		98
69) p-Isopropyltoluene	11.930	119	733573	10.179	ppbv		98
70) n-Butylbenzene	12.286	91	744721	10.584	ppbv		99
71) 2-Chlorotoluene	10.908	91	531933	10.234	ppbv		98
72) 4-Ethyltoluene	11.131	105	592733	10.248	ppbv		98
73) 1,3,5-Trimethylbenzene	11.209	105	491234	10.472	ppbv		97
74) 1,2,4-Trimethylbenzene	11.542	105	545008	10.521	ppbv		96
75) 1,3-Dichlorobenzene	11.613	146	327787	10.203	ppbv		99
76) 1,4-Dichlorobenzene	11.678	146	328439	10.293	ppbv		98
77) 1,2-Dichlorobenzene	11.953	146	313228	10.247	ppbv		99
78) Hexachloro-1,3-Butadiene	13.885	225	214126	8.956	ppbv		99
79) Naphthalene	13.516	128	503948	11.001	ppbv		99
80) Naphthalene,2-methyl-	14.462	142	125827	8.892	ppbv		95
81) 1,2,4-Trichlorobenzene	13.445	180	261685	10.684	ppbv		100

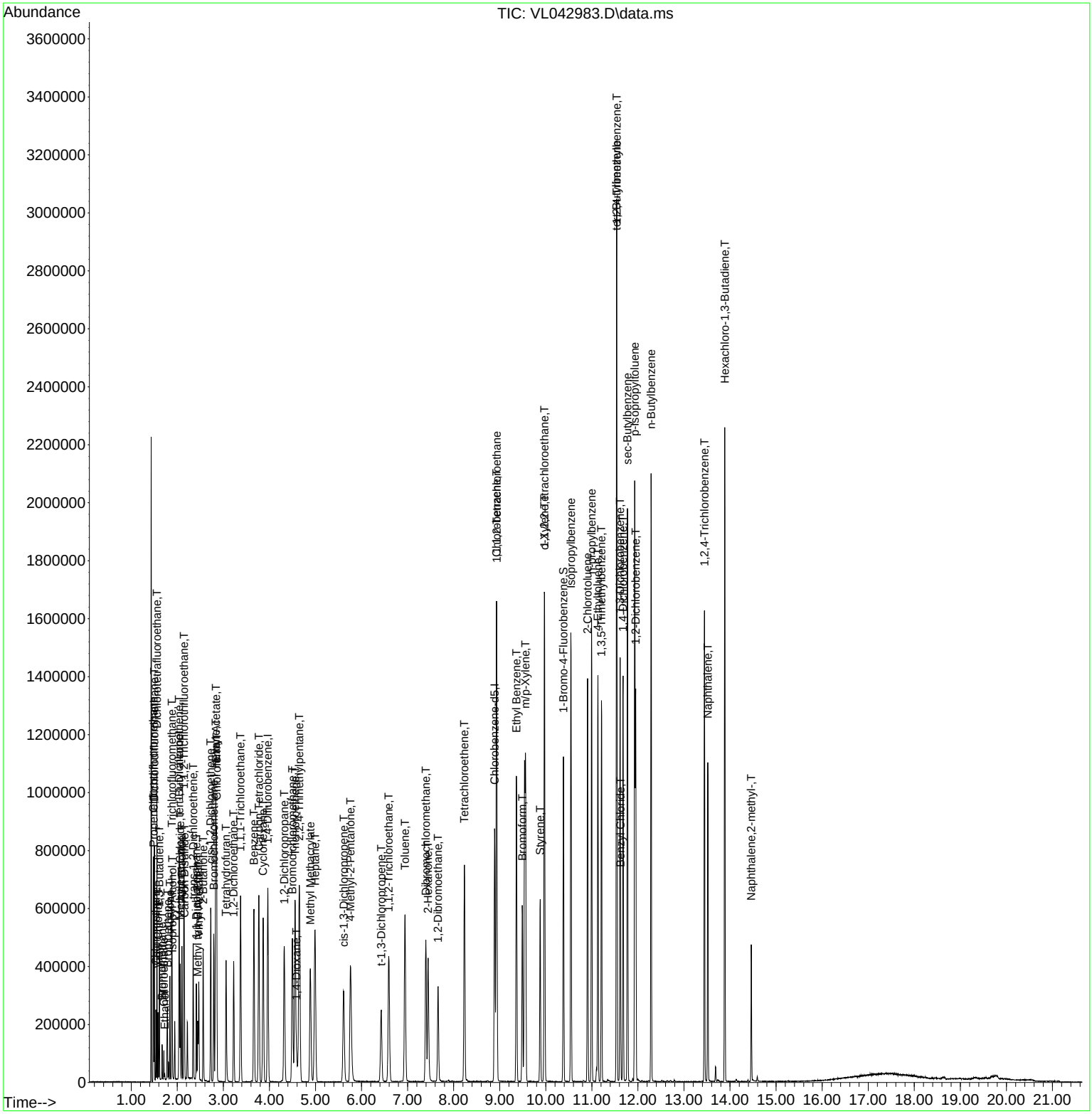
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042983.D
Acq On : 23 Sep 2025 09:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 02:04:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042983.D
Acq On : 23 Sep 2025 09:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Sep 24 02:04:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 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	82	0.00
2	T	Dichlorodifluoromethane	1.345	1.334	0.8	88	0.00
3		Chlorodifluoromethane	1.676	1.616	3.6	84	0.00
4		Chloromethane	0.609	0.557	8.5	82	0.00
5	T	Vinyl Chloride	0.550	0.480	12.7	84	0.00
6	T	Bromomethane	0.194	0.174	10.3	86	0.00
7		Chloroethane	0.214	0.191	10.7	80	0.00
8	T	Dichlorotetrafluoroethane	1.148	1.083	5.7	85	0.00
9	T	Propene	0.729	0.592	18.8	71	0.00
10	T	Heptane	1.946	1.727	11.3	76	0.02
11	T	Trichlorofluoromethane	1.297	1.320	-1.8	90	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.050	1.030	1.9	88	0.00
13		Ethanol	0.071	0.046#	35.2#	72	0.00
14	T	Bromoethene	0.397	0.369	7.1	84	0.00
15	T	Acetone	1.302	1.046	19.7	86	0.00
16	T	1,3-Butadiene	0.614	0.529	13.8	83	0.00
17		tert-Butyl alcohol	1.429	1.197	16.2	73	0.00
18	T	1,1-Dichloroethene	0.486	0.455	6.4	84	0.00
19	T	Isopropyl Alcohol	0.783	0.676	13.7	77	0.00
20	T	Methylene Chloride	0.545	0.398	27.0	84	0.00
21	T	Allyl Chloride	0.907	0.838	7.6	80	0.00
22	T	trans-1,2-Dichloroethene	0.552	0.511	7.4	83	0.00
23	T	Vinyl Acetate	1.861	1.648	11.4	85	0.00
24	T	1,1-Dichloroethane	1.083	1.039	4.1	86	0.00
25	T	Ethyl Acetate	3.292	3.019	8.3	79	0.00
26	T	Hexane	1.501	1.344	10.5	79	0.00
27	T	Carbon Disulfide	1.346	1.214	9.8	78	0.00
28	T	Methyl tert-Butyl Ether	0.780	0.655	16.0	84	0.00
29	T	Chloroform	1.962	2.009	-2.4	89	0.00
30	T	Cyclohexane	1.255	1.132	9.8	78	0.00
31	T	cis-1,2-Dichloroethene	1.406	1.343	4.5	81	0.00
32	T	1,1,1-Trichloroethane	2.119	1.956	7.7	84	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	75	0.01
34	T	2-Butanone	0.701	0.702	-0.1	81	0.00
35	T	Carbon Tetrachloride	0.651	0.703	-8.0	87	0.02
36	T	Benzene	0.939	0.940	-0.1	79	0.01
37	T	1,2-Dichloroethane	0.494	0.564	-14.2	91	0.00
38	T	Trichloroethene	0.467	0.440	5.8	78	0.02
39	T	1,2-Dichloropropane	0.343	0.349	-1.7	81	0.02
40	T	1,4-Dioxane	0.159	0.148	6.9	76	0.02
41	T	Tetrahydrofuran	0.403	0.383	5.0	74	0.01
42	T	Bromodichloromethane	0.688	0.749	-8.9	83	0.02
43		Methyl Methacrylate	0.384	0.361	6.0	74	0.02
44	T	2,2,4-Trimethylpentane	1.622	1.604	1.1	77	0.02
45	T	t-1,3-Dichloropropene	0.410	0.376	8.3	69	0.02
46	T	cis-1,3-Dichloropropene	0.522	0.496	5.0	72	0.02
47	T	1,1,2-Trichloroethane	0.362	0.368	-1.7	81	0.02
48	T	Dibromochloromethane	0.580	0.609	-5.0	81	0.01

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042983.D
Acq On : 23 Sep 2025 09:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
LabSampleId : VSTDCCC010

Quant Time: Sep 24 02:04:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 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	0.504	0.506	-0.4	75	0.00
50	T	4-Methyl-2-Pentanone	0.939	0.935	0.4	76	0.02
51	T	2-Hexanone	0.749	0.753	-0.5	76	0.02
52	T	Tetrachloroethene	0.363	0.328	9.6	76	0.01
53	T	Toluene	1.111	1.068	3.9	75	0.02
54	T	1,2-Dibromoethane	0.510	0.530	-3.9	82	0.02
55	I	Chlorobenzene-d5	1.000	1.000	0.0	73	0.01
56		1,1,1,2-Tetrachloroethane	0.479	0.508	-6.1	81	0.01
57	T	Chlorobenzene	0.913	0.932	-2.1	80	0.01
58	T	Ethyl Benzene	1.642	1.688	-2.8	79	0.02
59	T	m/p-Xylene	1.295	1.351	-4.3	81	0.03
60	T	o-Xylene	1.294	1.357	-4.9	81	0.01
61	T	Styrene	0.612	0.595	2.8	72	0.01
62		Isopropylbenzene	1.929	1.971	-2.2	80	0.00
63	T	1,1,2,2-Tetrachloroethane	0.680	0.692	-1.8	83	0.01
64		n-propylbenzene	0.504	0.510	-1.2	79	0.00
65		tert-Butylbenzene	1.715	1.716	-0.1	81	0.00
66	T	Benzyl Chloride	0.180	0.108	40.0#	40	0.01
67		sec-Butylbenzene	2.390	2.460	-2.9	82	0.00
68	S	1-Bromo-4-Fluorobenzene	0.746	0.799	-7.1	77	0.01
69		p-Isopropyltoluene	2.019	2.055	-1.8	81	0.00
70		n-Butylbenzene	1.971	2.086	-5.8	81	0.00
71		2-Chlorotoluene	1.456	1.490	-2.3	80	0.01
72	T	4-Ethyltoluene	1.621	1.661	-2.5	80	0.00
73	T	1,3,5-Trimethylbenzene	1.314	1.376	-4.7	80	0.00
74	T	1,2,4-Trimethylbenzene	1.451	1.527	-5.2	83	0.00
75	T	1,3-Dichlorobenzene	0.900	0.918	-2.0	80	0.00
76	T	1,4-Dichlorobenzene	0.894	0.920	-2.9	80	0.00
77	T	1,2-Dichlorobenzene	0.856	0.878	-2.6	81	0.00
78	T	Hexachloro-1,3-Butadiene	0.670	0.600	10.4	76	0.00
79	T	Naphthalene	1.283	1.412	-10.1	75	0.00
80	T	Naphthalene,2-methyl-	0.396	0.353	10.9	64	0.00
81	T	1,2,4-Trichlorobenzene	0.686	0.733	-6.9	75	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\VL092325\
Data File : VL042983.D
Acq On : 23 Sep 2025 09:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Sep 24 02:04:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 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	82	0.00
2	T	Dichlorodifluoromethane	10.000	9.921	0.8	88	0.00
3		Chlorodifluoromethane	10.000	9.643	3.6	84	0.00
4		Chloromethane	10.000	9.147	8.5	82	0.00
5	T	Vinyl Chloride	10.000	8.722	12.8	84	0.00
6	T	Bromomethane	10.000	8.975	10.3	86	0.00
7		Chloroethane	10.000	8.948	10.5	80	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.434	5.7	85	0.00
9	T	Propene	10.000	8.122	18.8	71	0.00
10	T	Heptane	10.000	8.876	11.2	76	0.02
11	T	Trichlorofluoromethane	10.000	10.181	-1.8	90	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.809	1.9	88	0.00
13		Ethanol	10.000	6.559	34.4#	72	0.00
14	T	Bromoethene	10.000	9.295	7.1	84	0.00
15	T	Acetone	10.000	8.031	19.7	86	0.00
16	T	1,3-Butadiene	10.000	8.604	14.0	83	0.00
17		tert-Butyl alcohol	10.000	8.383	16.2	73	0.00
18	T	1,1-Dichloroethene	10.000	9.368	6.3	84	0.00
19	T	Isopropyl Alcohol	10.000	8.633	13.7	77	0.00
20	T	Methylene Chloride	10.000	10.264	-2.6	84	0.00
21	T	Allyl Chloride	10.000	9.235	7.7	80	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.260	7.4	83	0.00
23	T	Vinyl Acetate	10.000	8.857	11.4	85	0.00
24	T	1,1-Dichloroethane	10.000	9.596	4.0	86	0.00
25	T	Ethyl Acetate	10.000	9.170	8.3	79	0.00
26	T	Hexane	10.000	8.959	10.4	79	0.00
27	T	Carbon Disulfide	10.000	9.019	9.8	78	0.00
28	T	Methyl tert-Butyl Ether	10.000	8.393	16.1	84	0.00
29	T	Chloroform	10.000	10.239	-2.4	89	0.00
30	T	Cyclohexane	10.000	9.022	9.8	78	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.555	4.5	81	0.00
32	T	1,1,1-Trichloroethane	10.000	9.228	7.7	84	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	75	0.01
34	T	2-Butanone	10.000	10.023	-0.2	81	0.00
35	T	Carbon Tetrachloride	10.000	10.791	-7.9	87	0.02
36	T	Benzene	10.000	10.014	-0.1	79	0.01
37	T	1,2-Dichloroethane	10.000	11.424	-14.2	91	0.00
38	T	Trichloroethene	10.000	9.427	5.7	78	0.02
39	T	1,2-Dichloropropane	10.000	10.186	-1.9	81	0.02
40	T	1,4-Dioxane	10.000	9.285	7.1	76	0.02
41	T	Tetrahydrofuran	10.000	9.498	5.0	74	0.01
42	T	Bromodichloromethane	10.000	10.891	-8.9	83	0.02
43		Methyl Methacrylate	10.000	9.394	6.1	74	0.02
44	T	2,2,4-Trimethylpentane	10.000	9.887	1.1	77	0.02
45	T	t-1,3-Dichloropropene	10.000	9.169	8.3	69	0.02
46	T	cis-1,3-Dichloropropene	10.000	9.498	5.0	72	0.02
47	T	1,1,2-Trichloroethane	10.000	10.149	-1.5	81	0.02
48	T	Dibromochloromethane	10.000	10.500	-5.0	81	0.01

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042983.D
Acq On : 23 Sep 2025 09:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Sep 24 02:04:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 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	10.047	-0.5	75	0.00
50	T	4-Methyl-2-Pentanone	10.000	9.951	0.5	76	0.02
51	T	2-Hexanone	10.000	10.057	-0.6	76	0.02
52	T	Tetrachloroethene	10.000	9.033	9.7	76	0.01
53	T	Toluene	10.000	9.612	3.9	75	0.02
54	T	1,2-Dibromoethane	10.000	10.396	-4.0	82	0.02
55	I	Chlorobenzene-d5	10.000	10.000	0.0	73	0.01
56		1,1,1,2-Tetrachloroethane	10.000	10.604	-6.0	81	0.01
57	T	Chlorobenzene	10.000	10.210	-2.1	80	0.01
58	T	Ethyl Benzene	10.000	10.281	-2.8	79	0.02
59	T	m/p-Xylene	20.000	20.873	-4.4	81	0.03
60	T	o-Xylene	10.000	10.485	-4.8	81	0.01
61	T	Styrene	10.000	9.728	2.7	72	0.01
62		Isopropylbenzene	10.000	10.219	-2.2	80	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	10.175	-1.8	83	0.01
64		n-propylbenzene	10.000	10.113	-1.1	79	0.00
65		tert-Butylbenzene	10.000	10.004	-0.0	81	0.00
66	T	Benzyl Chloride	10.000	5.982	40.2#	40	0.01
67		sec-Butylbenzene	10.000	10.290	-2.9	82	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.709	-7.1	77	0.01
69		p-Isopropyltoluene	10.000	10.179	-1.8	81	0.00
70		n-Butylbenzene	10.000	10.584	-5.8	81	0.00
71		2-Chlorotoluene	10.000	10.234	-2.3	80	0.01
72	T	4-Ethyltoluene	10.000	10.248	-2.5	80	0.00
73	T	1,3,5-Trimethylbenzene	10.000	10.472	-4.7	80	0.00
74	T	1,2,4-Trimethylbenzene	10.000	10.521	-5.2	83	0.00
75	T	1,3-Dichlorobenzene	10.000	10.203	-2.0	80	0.00
76	T	1,4-Dichlorobenzene	10.000	10.293	-2.9	80	0.00
77	T	1,2-Dichlorobenzene	10.000	10.247	-2.5	81	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	8.956	10.4	76	0.00
79	T	Naphthalene	10.000	11.001	-10.0	75	0.00
80	T	Naphthalene,2-methyl-	10.000	8.892	11.1	64	0.00
81	T	1,2,4-Trichlorobenzene	10.000	10.684	-6.8	75	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042984.D
Acq On : 23 Sep 2025 10:01
Operator : SY/MD
Sample : VL0923ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0923ABL01

Quant Time: Sep 24 02:05:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

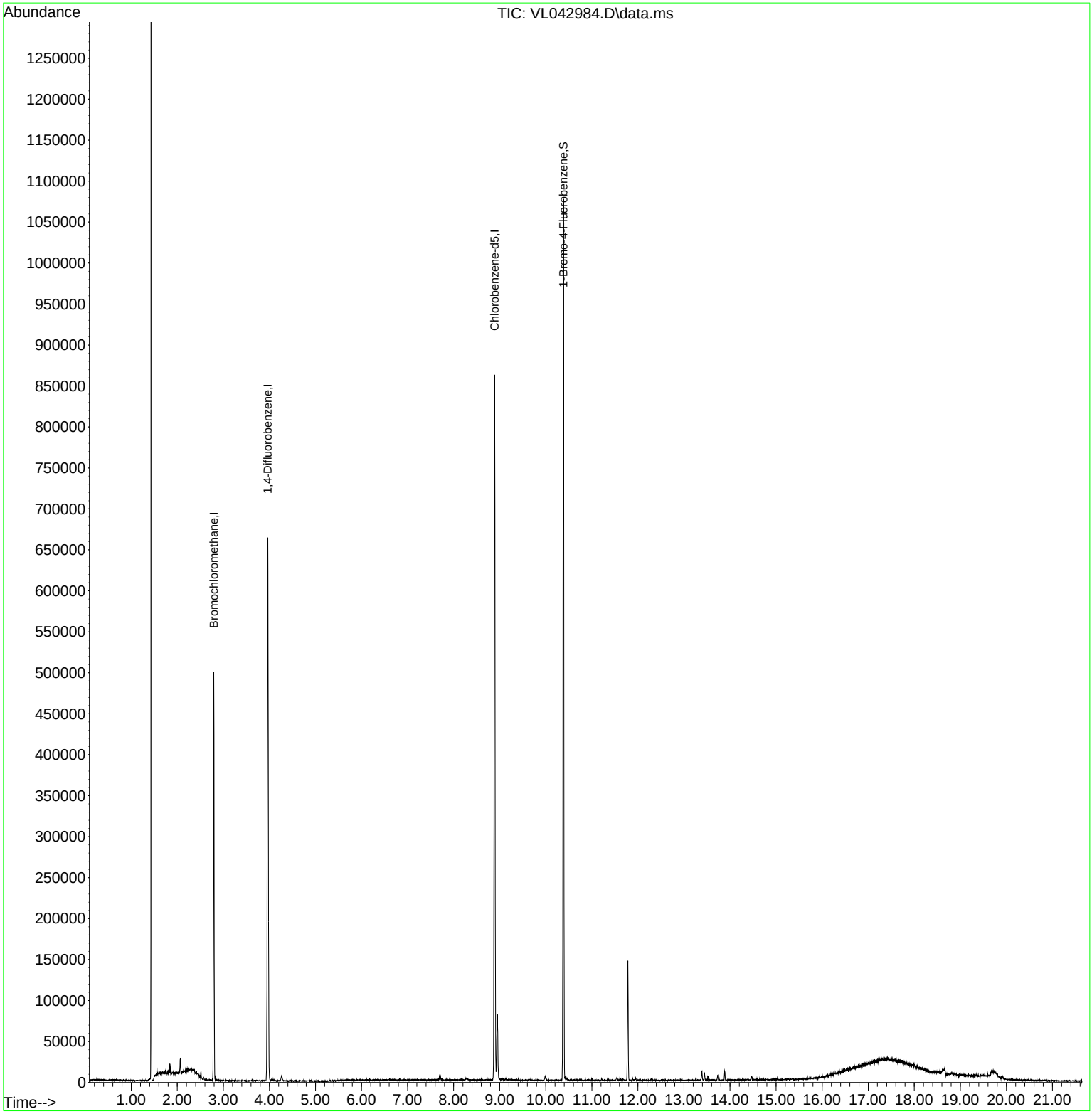
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.794	49	140749	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	395903	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	343517	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	271935	10.605	ppbv	0.01
Spiked Amount 10.000	Range 65 - 135		Recovery = 106.000%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042984.D
Acq On : 23 Sep 2025 10:01
Operator : SY/MD
Sample : VL0923ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0923ABL01

Quant Time: Sep 24 02:05:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042985.D
Acq On : 23 Sep 2025 10:46
Operator : SY/MD
Sample : VL0923ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 02:05:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0923ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	141345	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	400881	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	355060	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	285118	10.757	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 107.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	189707	9.979	ppbv	98
3) Chlorodifluoromethane	1.476	51	229022	9.665	ppbv	96
4) Chloromethane	1.534	50	80187	9.319	ppbv	99
5) Vinyl Chloride	1.580	62	68503	8.806	ppbv	98
6) Bromomethane	1.667	94	24823	9.046	ppbv	97
7) Chloroethane	1.706	64	27737	9.182	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	155561	9.585	ppbv	99
9) Propene	1.482	41	83859	8.135	ppbv	96
10) Heptane	4.981	43	244830	8.900	ppbv	99
11) Trichlorofluoromethane	1.877	101	187304	10.218	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	145246	9.785	ppbv	100
13) Ethanol	1.722	45	6053	6.053	ppbv	93
14) Bromoethene	1.783	108	52420	9.341	ppbv	99
15) Acetone	1.835	43	151197	8.213	ppbv	95
16) 1,3-Butadiene	1.609	39	75511	8.696	ppbv	95
17) tert-Butyl alcohol	2.039	59	167211	8.281	ppbv	99
18) 1,1-Dichloroethene	2.036	96	65099	9.475	ppbv	98
19) Isopropyl Alcohol	1.887	45	91978	8.311	ppbv	95
20) Methylene Chloride	2.062	84	56301	10.276	ppbv	99
21) Allyl Chloride	2.097	41	119358	9.310	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	74438	9.534	ppbv	97
23) Vinyl Acetate	2.463	43	213995	8.137	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	146400	9.562	ppbv	98
25) Ethyl Acetate	2.835	43	424873	9.132	ppbv	99
26) Hexane	2.826	57	189786	8.948	ppbv	98
27) Carbon Disulfide	2.149	76	171644	9.023	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	84694	7.682	ppbv	95
29) Chloroform	2.848	83	283787	10.233	ppbv	99
30) Cyclohexane	3.855	84	158294	8.927	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	189377	9.532	ppbv	98
32) 1,1,1-Trichloroethane	3.369	97	273236	9.122	ppbv	98
34) 2-Butanone	2.557	43	277525	9.878	ppbv	100
35) Carbon Tetrachloride	3.764	117	284218	10.890	ppbv	99
36) Benzene	3.657	78	374729	9.954	ppbv	97
37) 1,2-Dichloroethane	3.217	62	225333	11.381	ppbv	97
38) Trichloroethene	4.548	130	175469	9.379	ppbv	95
39) 1,2-Dichloropropane	4.315	63	137775	10.025	ppbv	94
40) 1,4-Dioxane	4.577	88	56926	8.908	ppbv #	99
41) Tetrahydrofuran	3.052	42	153071	9.479	ppbv	99
42) Bromodichloromethane	4.489	83	301564	10.937	ppbv	98
43) Methyl Methacrylate	4.878	69	143822	9.338	ppbv	99
44) 2,2,4-Trimethylpentane	4.641	57	644168	9.907	ppbv	97
45) t-1,3-Dichloropropene	6.415	75	146403	8.913	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042985.D
Acq On : 23 Sep 2025 10:46
Operator : SY/MD
Sample : VL0923ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 02:05:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0923ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	199882	9.548	ppbv		98
47) 1,1,2-Trichloroethane	6.580	97	146862	10.114	ppbv		98
48) Dibromochloromethane	7.389	129	239646	10.315	ppbv		100
49) Bromoform	9.487	173	200469	9.920	ppbv		99
50) 4-Methyl-2-Pentanone	5.748	43	376317	9.994	ppbv		98
51) 2-Hexanone	7.438	43	296793	9.888	ppbv	#	96
52) Tetrachloroethene	8.228	164	129889	8.917	ppbv		97
53) Toluene	6.933	91	429817	9.647	ppbv		100
54) 1,2-Dibromoethane	7.655	107	207545	10.155	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.927	131	178090	10.479	ppbv		99
57) Chlorobenzene	8.924	112	334709	10.326	ppbv		97
58) Ethyl Benzene	9.357	91	594235	10.192	ppbv		99
59) m/p-Xylene	9.551	91	960667m	20.900	ppbv		
60) o-Xylene	9.966	91	478503	10.416	ppbv		99
61) Styrene	9.872	104	213951	9.846	ppbv		99
62) Isopropylbenzene	10.542	105	701023	10.237	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.962	83	246097	10.192	ppbv		99
64) n-propylbenzene	10.992	120	182650	10.207	ppbv		96
65) tert-Butylbenzene	11.532	119	617982	10.146	ppbv		99
66) Benzyl Chloride	11.616	91	37909	5.932	ppbv		96
67) sec-Butylbenzene	11.769	105	870866	10.261	ppbv		98
69) p-Isopropyltoluene	11.927	119	731903	10.209	ppbv		98
70) n-Butylbenzene	12.283	91	755608	10.795	ppbv		98
71) 2-Chlorotoluene	10.901	91	536204	10.370	ppbv		97
72) 4-Ethyltoluene	11.124	105	591673	10.283	ppbv		99
73) 1,3,5-Trimethylbenzene	11.205	105	488186	10.461	ppbv		99
74) 1,2,4-Trimethylbenzene	11.539	105	537697	10.434	ppbv		94
75) 1,3-Dichlorobenzene	11.607	146	320019	10.013	ppbv		98
76) 1,4-Dichlorobenzene	11.671	146	325338	10.250	ppbv		99
77) 1,2-Dichlorobenzene	11.947	146	313262	10.302	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	213384	8.972	ppbv		99
79) Naphthalene	13.513	128	492107	10.799	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	129885	9.227	ppbv		98
81) 1,2,4-Trichlorobenzene	13.439	180	258061	10.592	ppbv		99

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

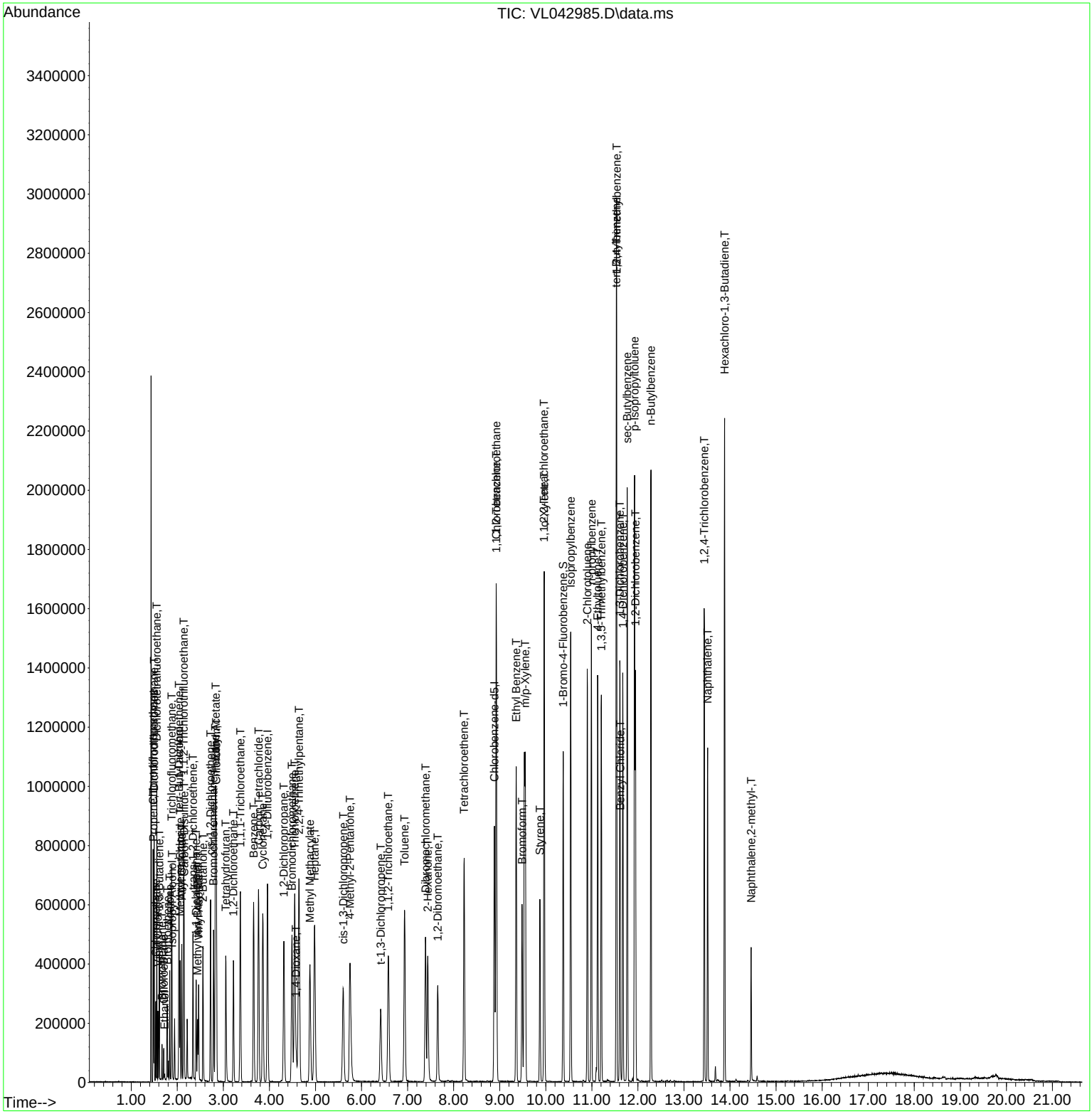
Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042985.D
Acq On : 23 Sep 2025 10:46
Operator : SY/MD
Sample : VL0923ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 02:05:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0923ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042989.D
Acq On : 23 Sep 2025 13:26
Operator : SY/MD
Sample : CAN 10747
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10747

Quant Time: Sep 24 02:07:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

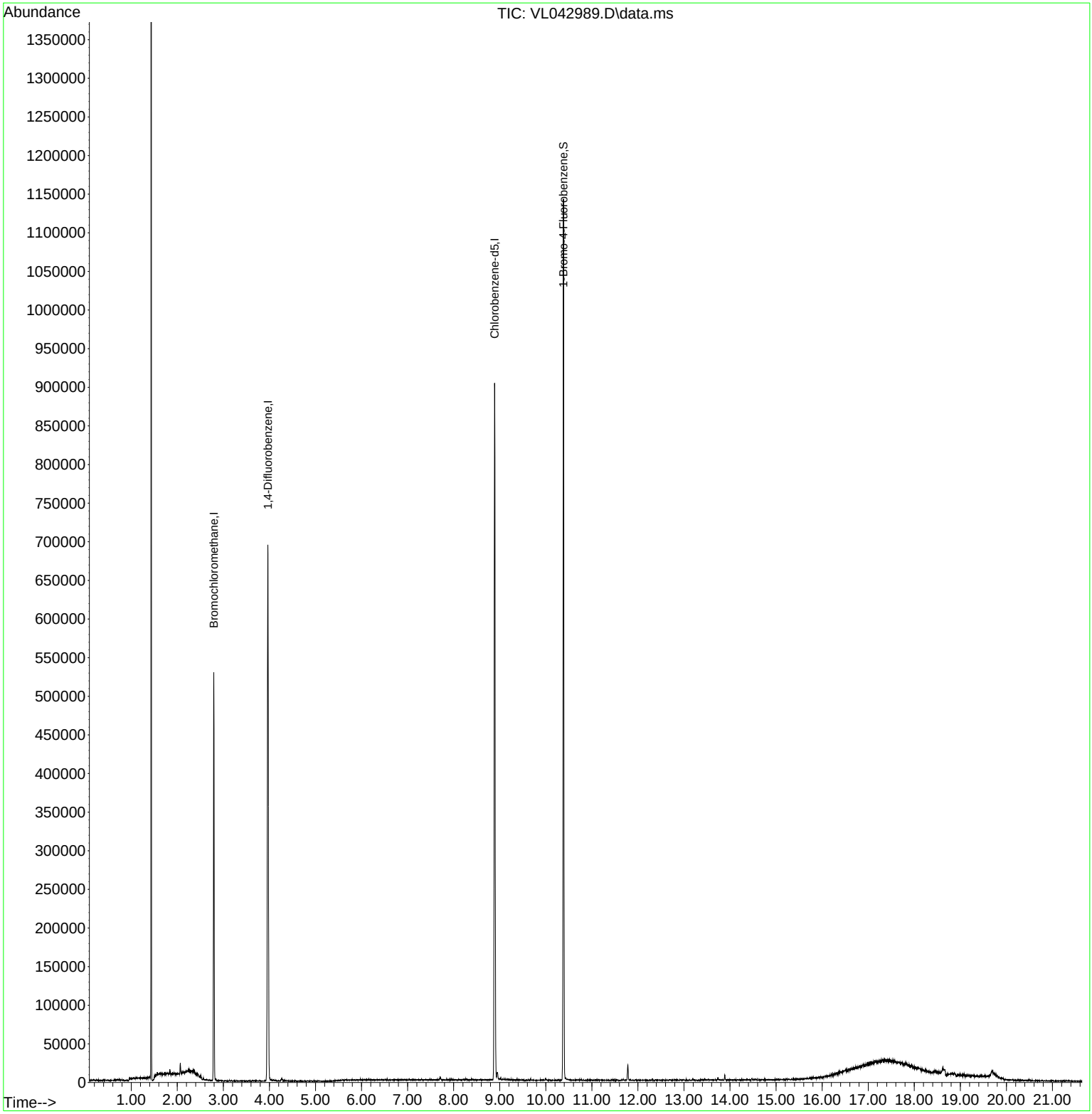
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	149203	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	404080	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	359428	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	280412	10.451	ppbv	0.01
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.500%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042989.D
Acq On : 23 Sep 2025 13:26
Operator : SY/MD
Sample : CAN 10747
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10747

Quant Time: Sep 24 02:07:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL050125

Review By	Semsettin Yesilyurt	Review On	5/2/2025 7:59:23 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:55:39 PM				
SubDirectory	VL050125	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2603
Initial Calibration Stds	AP2606,AP2607,AP2608
CCC	AP2606
Internal Standard/PEM	AP2603
ICV/I.BLK	AP2609
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042457.D	01 May 2025 08:19	SY/MD	Ok
2	VSTDICCC010	VL042458.D	01 May 2025 09:03	SY/MD	Ok,M
3	VSTDICC002	VL042459.D	01 May 2025 09:37	SY/MD	Ok,M
4	VSTDICC001	VL042460.D	01 May 2025 10:08	SY/MD	Ok,M
5	VSTDICC0.5	VL042461.D	01 May 2025 10:40	SY/MD	Ok,M
6	VSTDICC0.1	VL042462.D	01 May 2025 11:12	SY/MD	Ok,M
7	VSTDICC0.03	VL042463.D	01 May 2025 11:44	SY/MD	Not Ok
8	VSTDICC0.03	VL042464.D	01 May 2025 12:15	SY/MD	Not Ok
9	VSTDICC015	VL042465.D	01 May 2025 12:49	SY/MD	Ok,M
10	VSTDICC0.03	VL042466.D	01 May 2025 14:10	SY/MD	Ok,M
11	VSTDICV010	VL042467.D	01 May 2025 15:46	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL050625

Review By	Semsettin Yesilyurt	Review On	5/9/2025 2:37:46 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/9/2025 2:51:31 PM		
SubDirectory	VL050625	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2603
Initial Calibration Stds	AP2606,AP2607,AP2608
CCC	AP2606
Internal Standard/PEM	AP2603
ICV/I.BLK	AP2609
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042486.D	06 May 2025 08:16	SY/MD	Ok
2	VSTDCCC010	VL042487.D	06 May 2025 09:00	SY/MD	Ok,M
3	VL0506ABL01	VL042488.D	06 May 2025 09:49	SY/MD	Ok
4	VL0506ABS01	VL042489.D	06 May 2025 10:44	SY/MD	Ok,M
5	QC043025 CAN 10605	VL042490.D	06 May 2025 11:15	SY/MD	Ok
6	QC042925 CAN 10590	VL042491.D	06 May 2025 11:47	SY/MD	Ok
7	QC042225 CAN 10669	VL042492.D	06 May 2025 12:19	SY/MD	Ok
8	QC042325 CAN 10683	VL042493.D	06 May 2025 12:51	SY/MD	Ok
9	QC0429325 CAN 10458	VL042494.D	06 May 2025 13:23	SY/MD	Ok
10	MDL1 0.45	VL042495.D	06 May 2025 14:26	SY/MD	Ok,M
11	MDL2 0.45	VL042496.D	06 May 2025 14:57	SY/MD	Ok,M
12	MDL3 0.45	VL042497.D	06 May 2025 15:29	SY/MD	Not Ok
13	MDL1 0.03	VL042498.D	06 May 2025 16:01	SY/MD	Ok,M
14	MDL2 0.03	VL042499.D	06 May 2025 16:32	SY/MD	Not Ok
15	MDL3 0.03	VL042500.D	06 May 2025 17:04	SY/MD	Ok,M
16	MDL1 0.40	VL042501.D	06 May 2025 17:36	SY/MD	Ok,M
17	MDL2 0.40	VL042502.D	06 May 2025 18:07	SY/MD	Ok,M
18	MDL3 0.40	VL042503.D	06 May 2025 18:39	SY/MD	Ok,M
19	MDL1 0.1	VL042504.D	06 May 2025 19:10	SY/MD	Ok,M
20	MDL2 0.1	VL042505.D	06 May 2025 19:42	SY/MD	Ok,M
21	MDL3 0.1	VL042506.D	06 May 2025 20:13	SY/MD	Ok,M

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL050625

Review By	Semsettin Yesilyurt	Review On	5/9/2025 2:37:46 PM				
Supervise By	Mahesh Dadoda	Supervise On	5/9/2025 2:51:31 PM				
SubDirectory	VL050625	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2603
Initial Calibration Stds	AP2606,AP2607,AP2608
CCC	AP2606
Internal Standard/PEM	AP2603
ICV/I.BLK	AP2609
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VSTDCCC010	VL042507.D	06 May 2025 20:45	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL092225

Review By	Mahesh Dadoda	Review On	9/24/2025 2:18:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM		
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2676
Initial Calibration Stds	AP2673,AP2674,AP2675
CCC	AP2673
Internal Standard/PEM	AP2676
ICV/I.BLK	AP2671
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042949.D	22 Sep 2025 08:55	SY/MD	Ok
2	VSTDICCC010	VL042950.D	22 Sep 2025 09:39	SY/MD	Ok,M
3	VSTDICC002	VL042951.D	22 Sep 2025 10:14	SY/MD	Ok,M
4	VSTDICC001	VL042952.D	22 Sep 2025 10:48	SY/MD	Ok,M
5	VSTDICC0.5	VL042953.D	22 Sep 2025 11:22	SY/MD	Ok,M
6	VSTDICC0.1	VL042954.D	22 Sep 2025 11:56	SY/MD	Ok,M
7	VSTDICC0.03	VL042955.D	22 Sep 2025 12:30	SY/MD	Ok,M
8	VSTDICC015	VL042956.D	22 Sep 2025 13:05	SY/MD	Ok,M
9	VSTDICV010	VL042957.D	22 Sep 2025 14:15	SY/MD	Ok,M
10	VL0922ABL01	VL042958.D	22 Sep 2025 15:06	SY/MD	Ok
11	VL0922ABS01	VL042959.D	22 Sep 2025 15:52	SY/MD	Ok,M
12	Q3111-01	VL042960.D	22 Sep 2025 16:53	SY/MD	Dilution
13	Q3111-01DL	VL042961.D	22 Sep 2025 17:28	SY/MD	Ok,M
14	Q3112-01	VL042962.D	22 Sep 2025 18:04	SY/MD	Ok,M
15	Q3112-01DL	VL042963.D	22 Sep 2025 18:39	SY/MD	Not Ok
16	Q3112-02	VL042964.D	22 Sep 2025 19:14	SY/MD	Dilution
17	Q3112-02DL	VL042965.D	22 Sep 2025 19:49	SY/MD	Ok
18	Q3112-03	VL042966.D	22 Sep 2025 20:24	SY/MD	Ok,M
19	Q3112-03DL	VL042967.D	22 Sep 2025 20:59	SY/MD	Not Ok
20	VIBLK	VL042968.D	22 Sep 2025 21:35	SY/MD	Ok
21	Q3130-02	VL042969.D	22 Sep 2025 22:11	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 # VL092225

Review By	Mahesh Dadoda	Review On	9/24/2025 2:18:14 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM				
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2676
Initial Calibration Stds	AP2673,AP2674,AP2675
CCC	AP2673
Internal Standard/PEM	AP2676
ICV/I.BLK	AP2671
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3130-02DUP	VL042970.D	22 Sep 2025 22:48	SY/MD	Ok,M
23	Q3130-02DL	VL042971.D	22 Sep 2025 23:23	SY/MD	Not Ok
24	Q3130-01	VL042972.D	23 Sep 2025 00:00	SY/MD	Ok,M
25	Q3130-01DL	VL042973.D	23 Sep 2025 00:35	SY/MD	Not Ok
26	Q3131-01	VL042974.D	23 Sep 2025 01:11	SY/MD	Dilution
27	Q3131-01DL	VL042975.D	23 Sep 2025 01:46	SY/MD	Ok,M
28	Q3131-02	VL042976.D	23 Sep 2025 02:22	SY/MD	Dilution
29	Q3131-02DL	VL042977.D	23 Sep 2025 02:57	SY/MD	Ok,M
30	Q3132-01	VL042978.D	23 Sep 2025 03:33	SY/MD	Dilution
31	Q3132-01DL	VL042979.D	23 Sep 2025 04:08	SY/MD	Ok,M
32	Q3132-02	VL042980.D	23 Sep 2025 04:44	SY/MD	Ok,M
33	Q3132-02DL	VL042981.D	23 Sep 2025 05:19	SY/MD	Not Ok

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL092325

Review By	Semsettin Yesilyurt	Review On	9/24/2025 9:13:51 AM				
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:40:16 AM				
SubDirectory	VL092325	HP Acquire Method	TO15AIR		HP Processing Method	VL092225AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2676
Initial Calibration Stds	AP2673,AP2674,AP2675
CCC	AP2673
Internal Standard/PEM	AP2676
ICV/I.BLK	AP2671
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042982.D	23 Sep 2025 08:30	SY/MD	Ok
2	VSTDCCC010	VL042983.D	23 Sep 2025 09:14	SY/MD	Ok,M
3	VL0923ABL01	VL042984.D	23 Sep 2025 10:01	SY/MD	Ok
4	VL0923ABS01	VL042985.D	23 Sep 2025 10:46	SY/MD	Ok,M
5	CAN 10147	VL042986.D	23 Sep 2025 11:40	SY/MD	Ok
6	CAN 10136	VL042987.D	23 Sep 2025 12:15	SY/MD	Ok
7	CAN 10684	VL042988.D	23 Sep 2025 12:50	SY/MD	Ok
8	CAN 10747	VL042989.D	23 Sep 2025 13:26	SY/MD	Ok
9	CAN 10420	VL042990.D	23 Sep 2025 14:01	SY/MD	Ok
10	CAN 10743	VL042991.D	23 Sep 2025 14:37	SY/MD	Ok
11	CAN 10668	VL042992.D	23 Sep 2025 15:13	SY/MD	Ok
12	Q2893-14 0.5 PPB LOQ	VL042993.D	23 Sep 2025 15:49	SY/MD	ReRun
13	Q2893-14 0.1 PPB LOQ	VL042994.D	23 Sep 2025 16:25	SY/MD	Ok,M
14	Q2893-13 0.45	VL042995.D	23 Sep 2025 17:01	SY/MD	Ok,M
15	Q2893-13 0.40	VL042996.D	23 Sep 2025 17:36	SY/MD	Ok,M
16	Q2893-13 0.1	VL042997.D	23 Sep 2025 18:12	SY/MD	Ok,M
17	Q2893-13 0.03	VL042998.D	23 Sep 2025 18:48	SY/MD	Ok,M
18	Q2893-14 0.03	VL042999.D	23 Sep 2025 19:24	SY/MD	ReRun

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

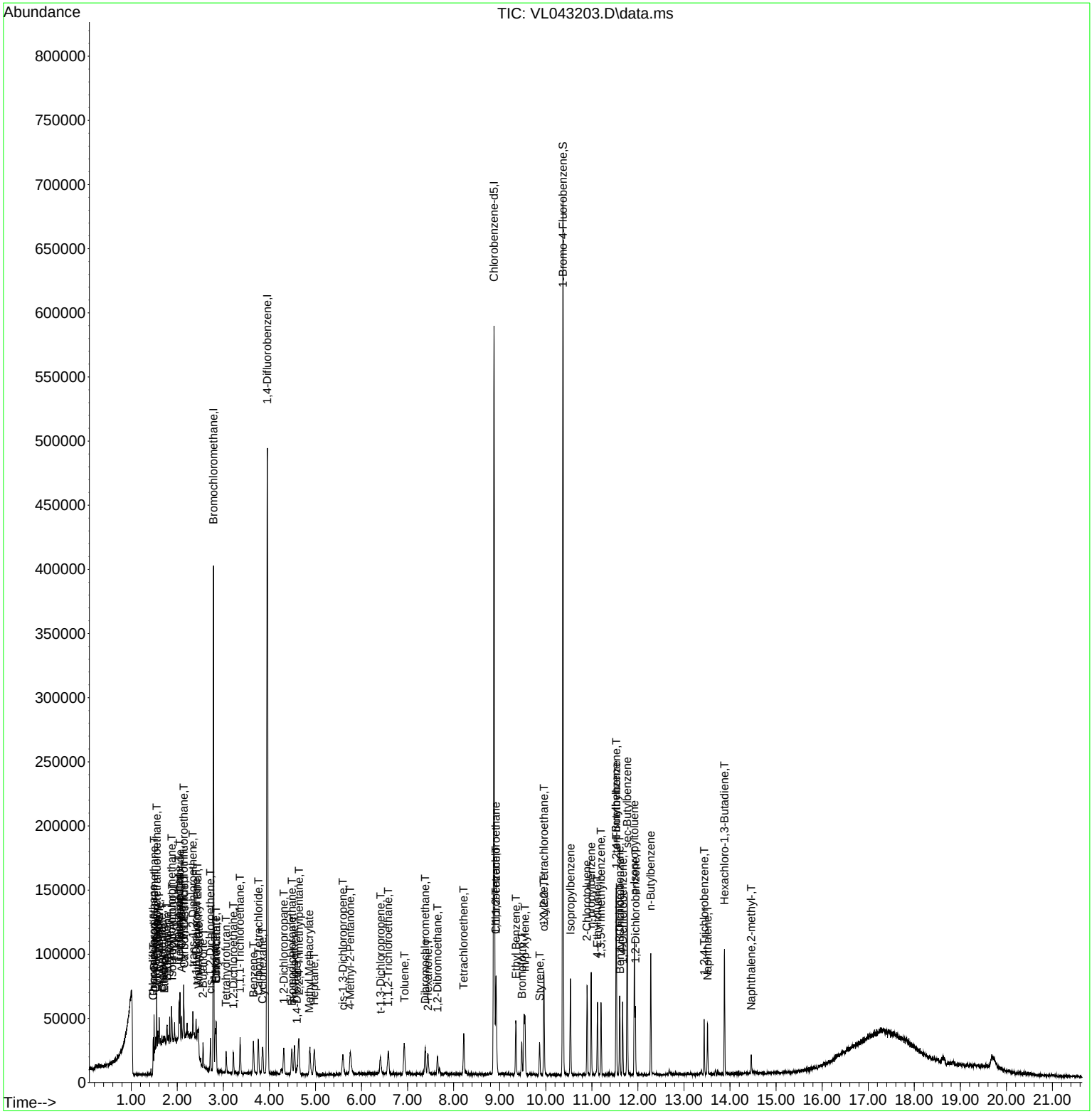
(#) = qualifier out of range (m) = manual integration (+) = signals summed

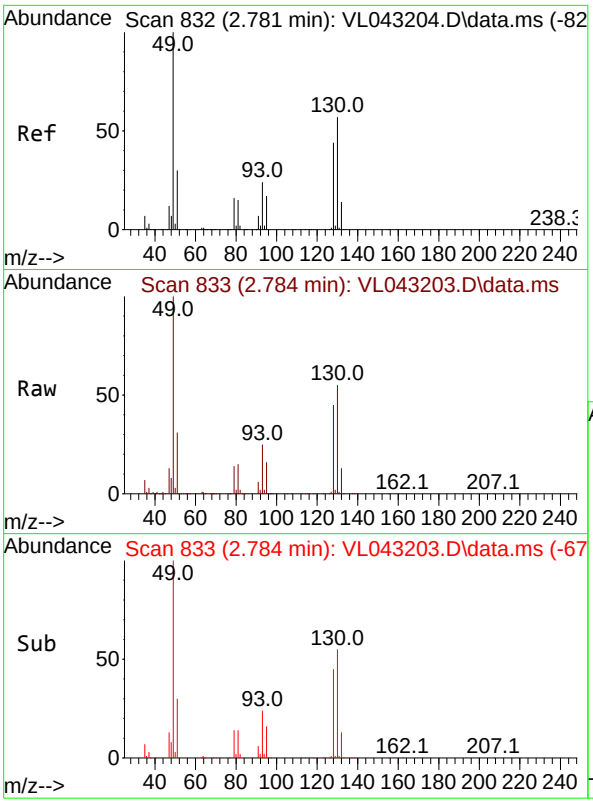
Quantitation Report (Not Reviewed)

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



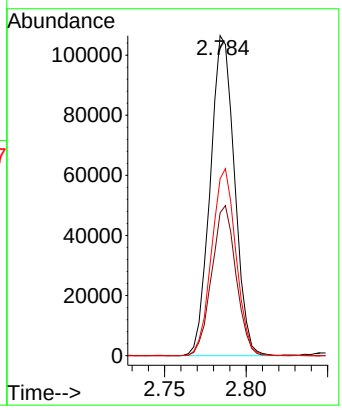


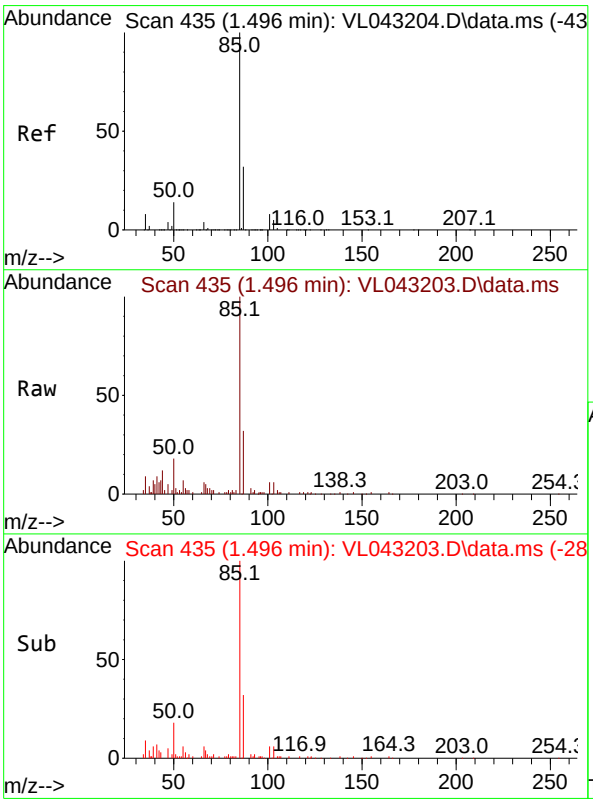
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

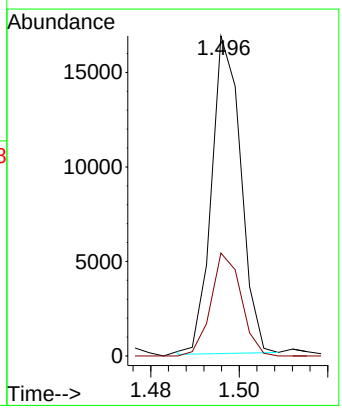


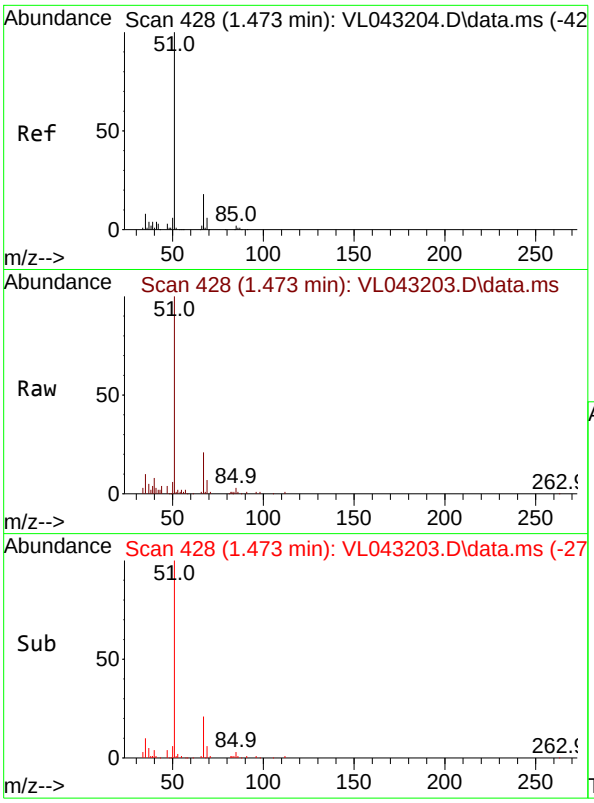


#2
Dichlorodifluoromethane
Concen: 0.496 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 85 Resp: 7723

Ion	Ratio	Lower	Upper
85	100		
87	32.5	25.4	38.2



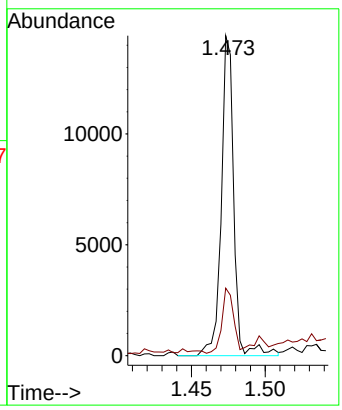


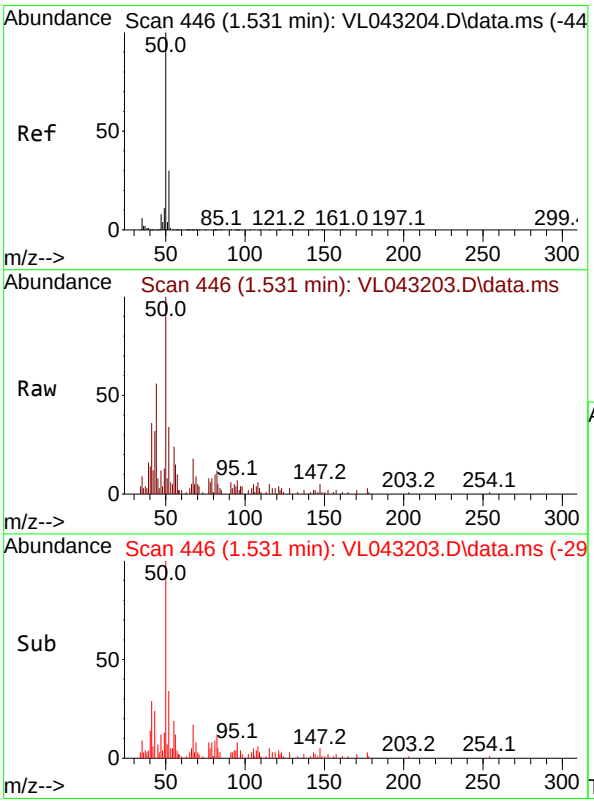
#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 51 Resp: 8538

Ion	Ratio	Lower	Upper
51	100		
67	26.4	14.9	22.3#

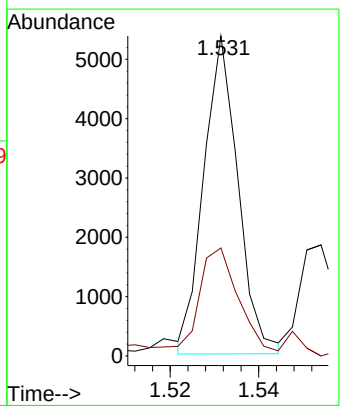


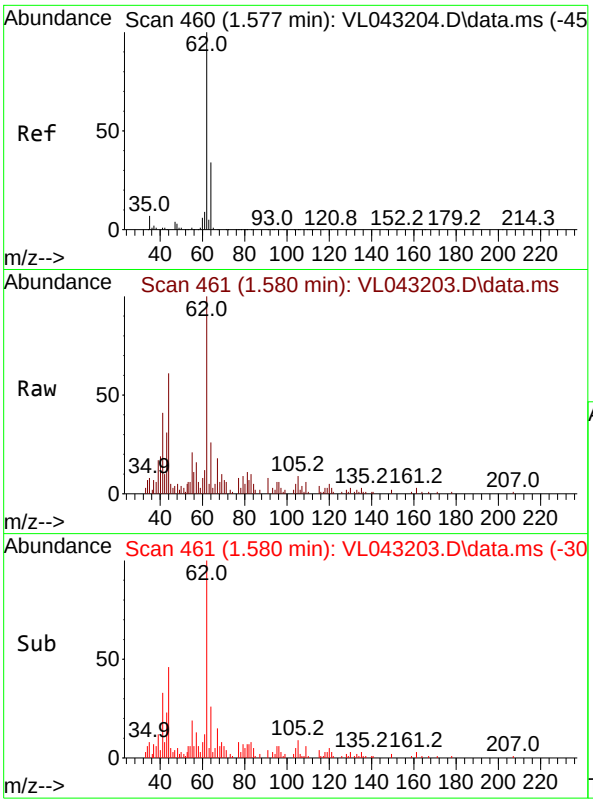


#4
Chloromethane
Concen: 0.494 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 50 Resp: 2881

Ion	Ratio	Lower	Upper
50	100		
52	33.5	24.1	36.1



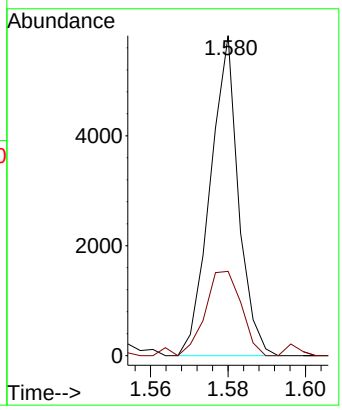


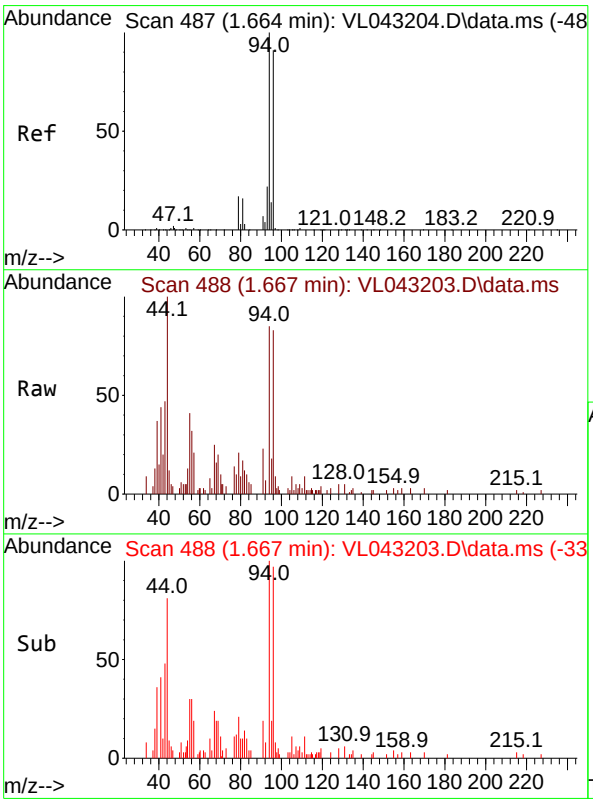
#5
Vinyl Chloride
Concen: 0.462 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 2947

Ion	Ratio	Lower	Upper
62	100		
64	26.4	27.3	40.9#

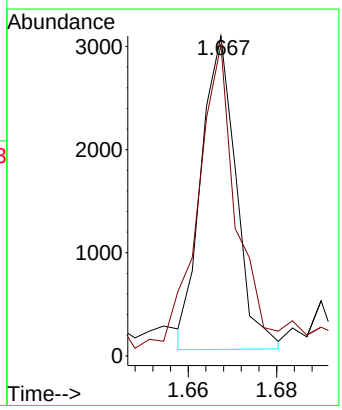


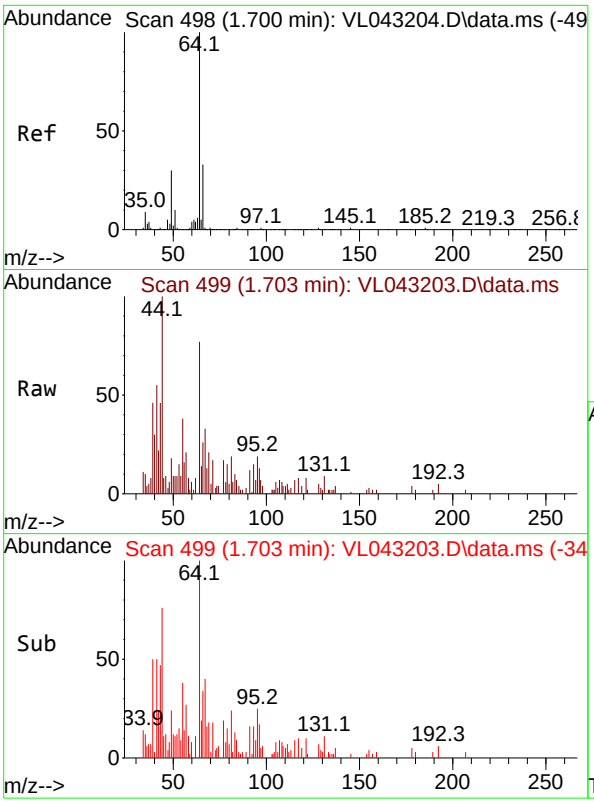


#6
Bromomethane
Concen: 0.536 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 94 Resp: 1656

Ion	Ratio	Lower	Upper
94	100		
96	93.9	72.9	109.3



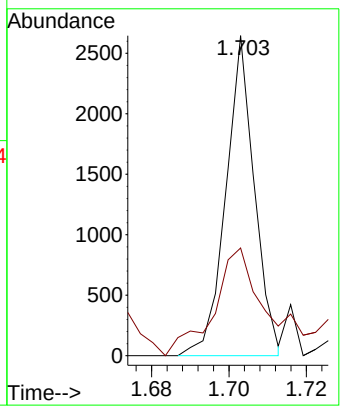


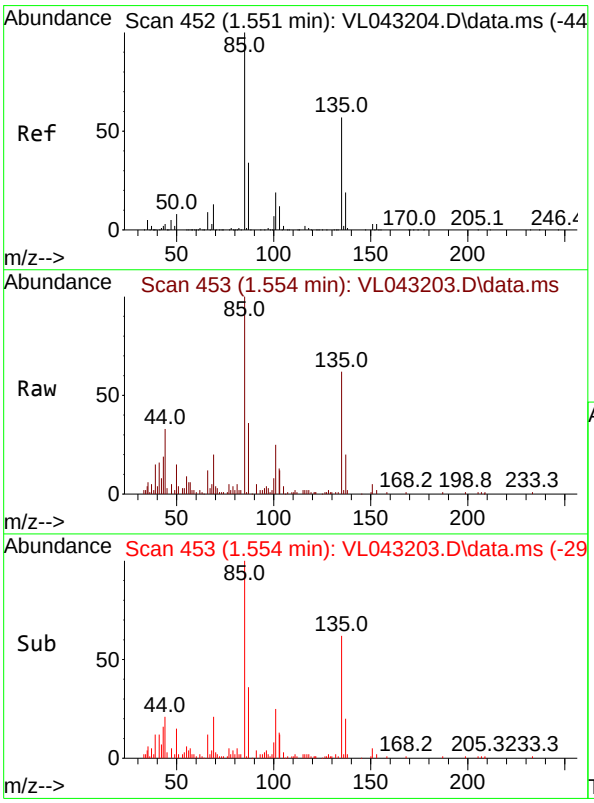
#7
Chloroethane
Concen: 0.547 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 64 Resp: 1357

Ion	Ratio	Lower	Upper
64	100		
66	33.7	26.8	40.2

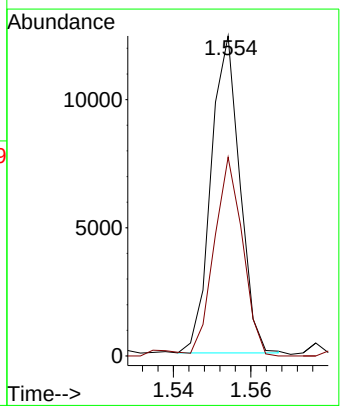


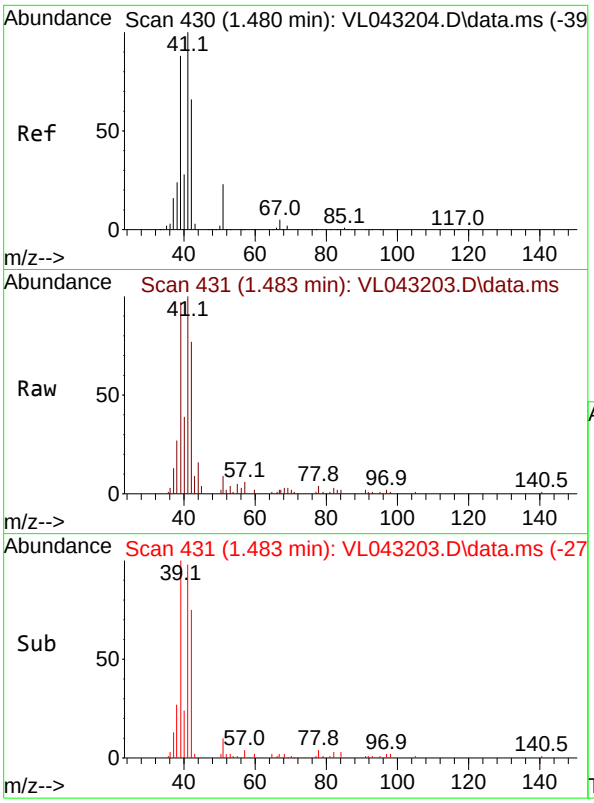


#8
Dichlorotetrafluoroethane
Concen: 0.493 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 85 Resp: 6386

Ion	Ratio	Lower	Upper
85	100		
135	65.8	52.6	79.0



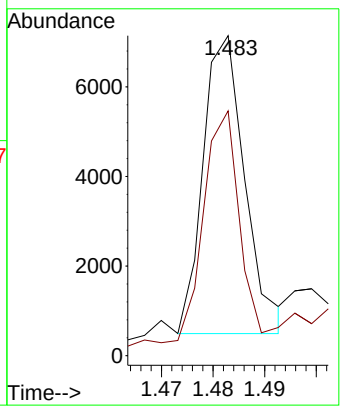


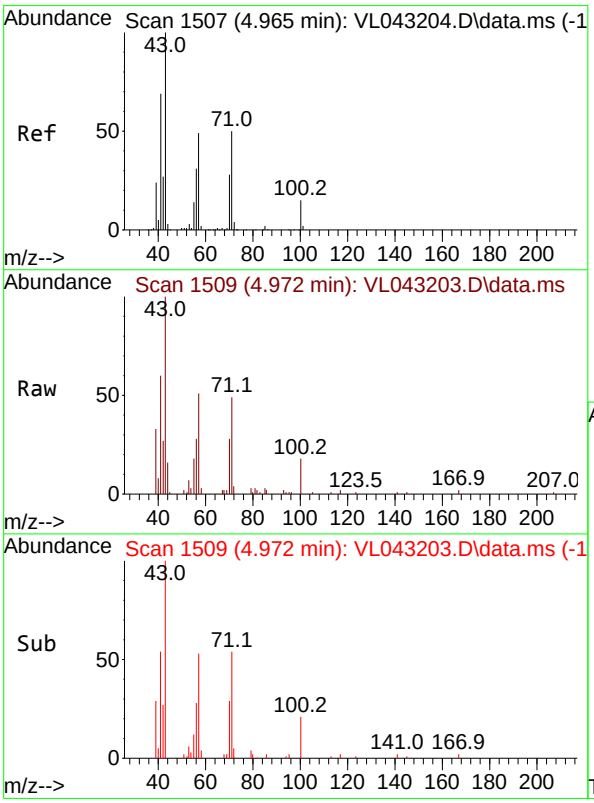
#9
Propene
Concen: 0.526 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 3739

Ion	Ratio	Lower	Upper
41	100		
42	121.9	3.7	5.5#

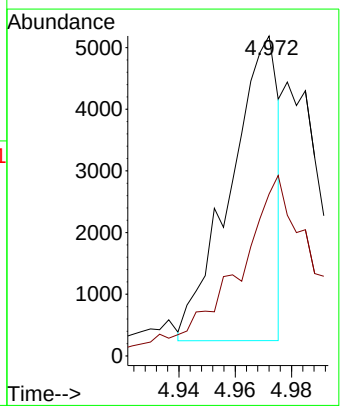


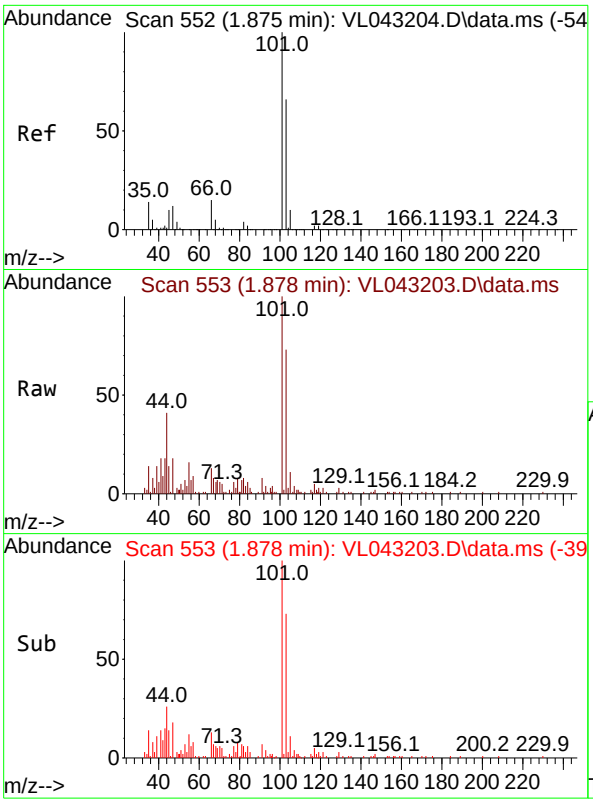


#10
Heptane
Concen: 0.300 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 5844

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#



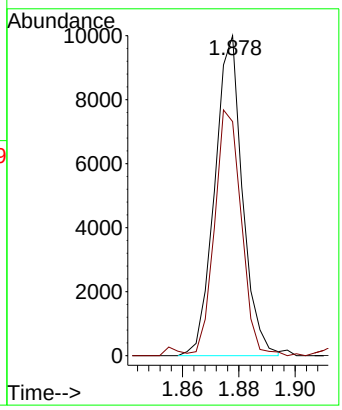


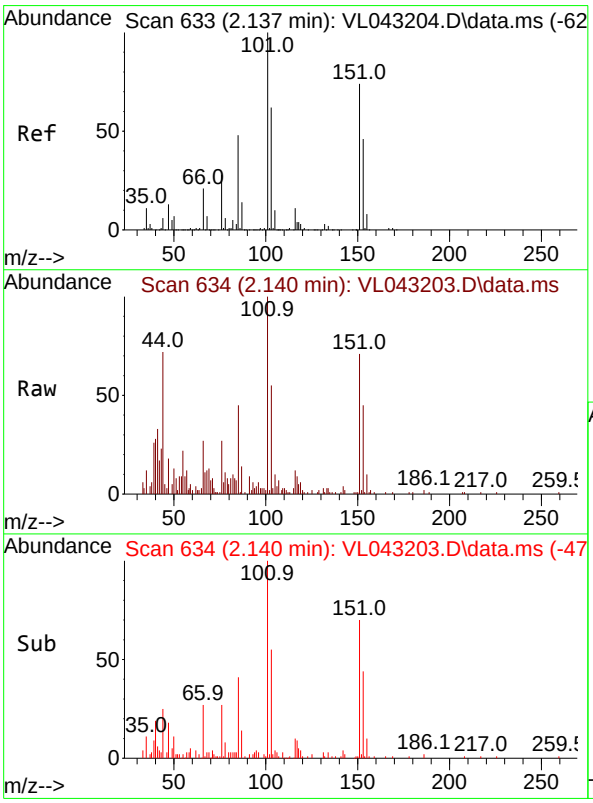
#11
Trichlorofluoromethane
Concen: 0.453 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:101 Resp: 6841

Ion	Ratio	Lower	Upper
101	100		
103	71.8	52.6	79.0

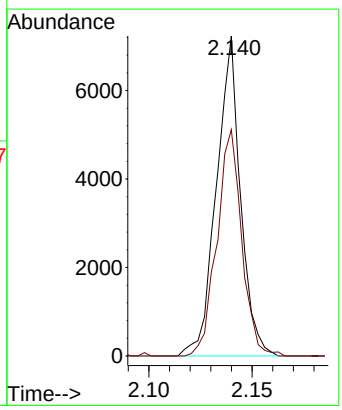


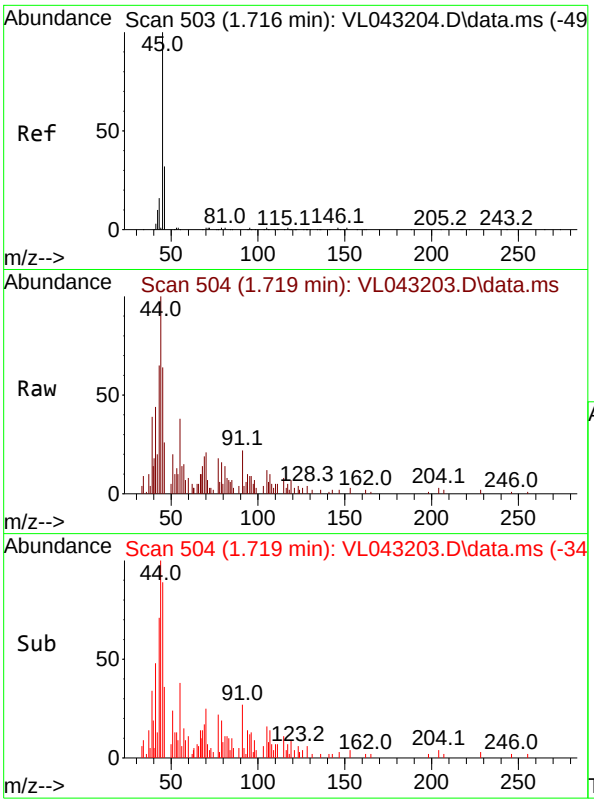


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.497 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:101 Resp: 5863

Ion	Ratio	Lower	Upper
101	100		
151	72.8	59.2	88.8



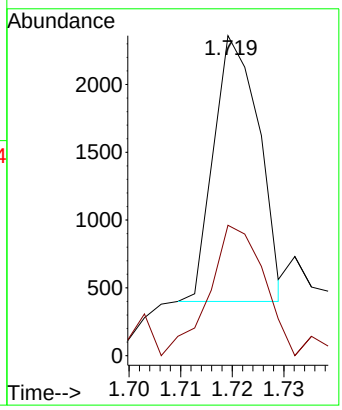


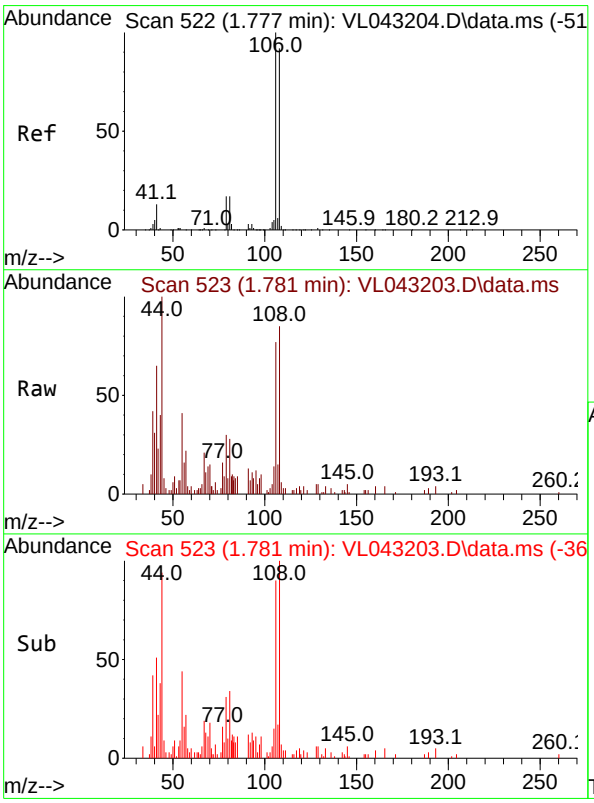
#13
Ethanol
Concen: 0.520 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 1190

Ion	Ratio	Lower	Upper
45	100		
46	58.7	15.0	59.8

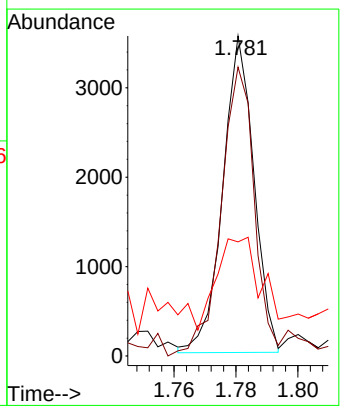


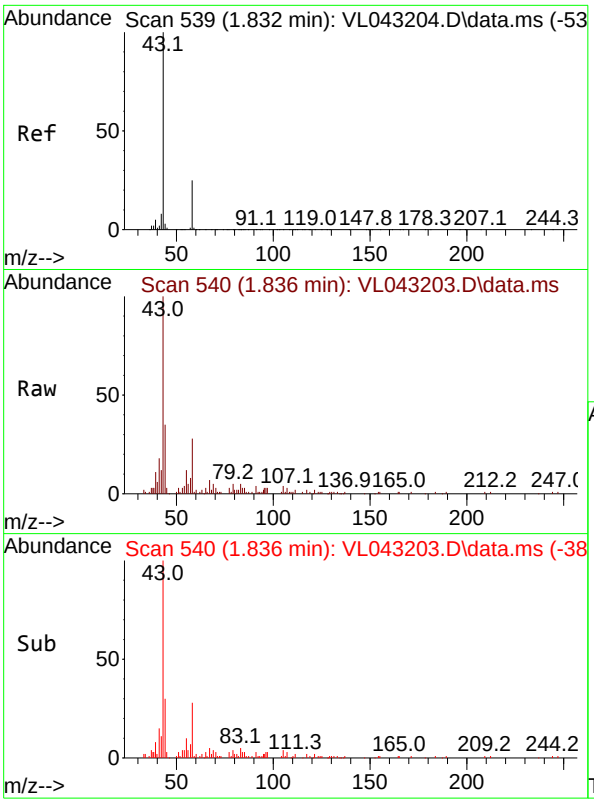


#14
Bromoethene
Concen: 0.548 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#



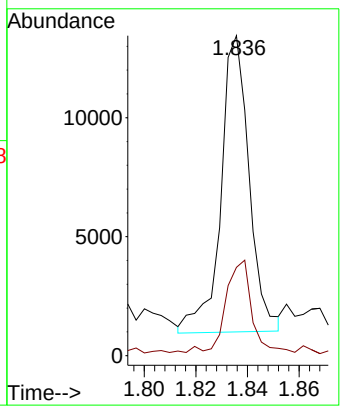


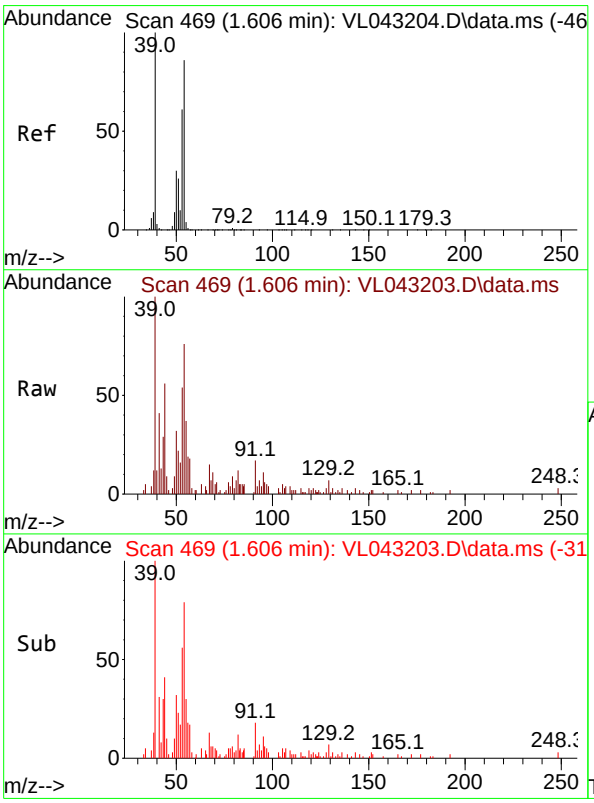
#15
Acetone
Concen: 0.619 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 9506

Ion	Ratio	Lower	Upper
43	100		
58	32.0	20.7	31.1#

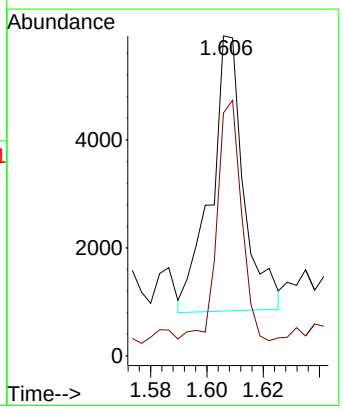


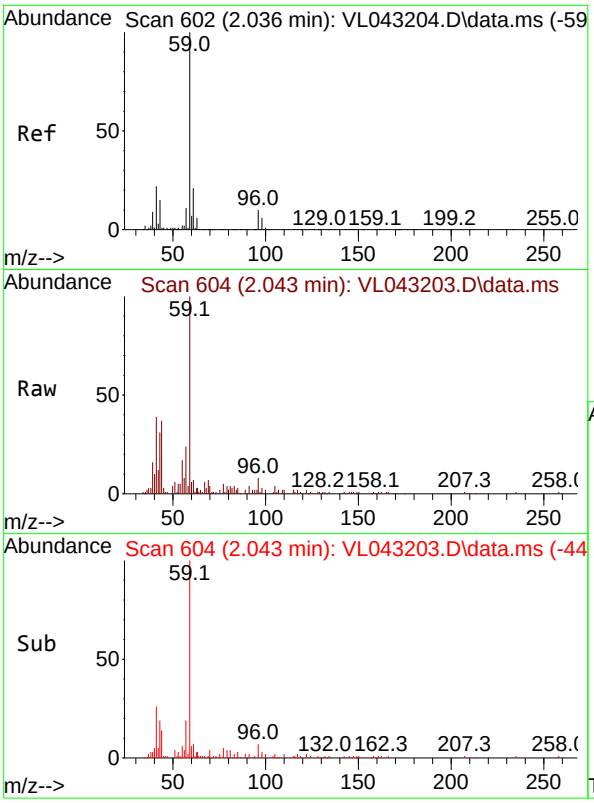


#16
1,3-Butadiene
Concen: 0.601 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 39 Resp: 4115

Ion	Ratio	Lower	Upper
39	100		
54	70.0	59.4	89.2



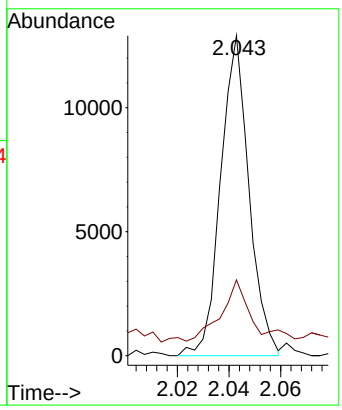


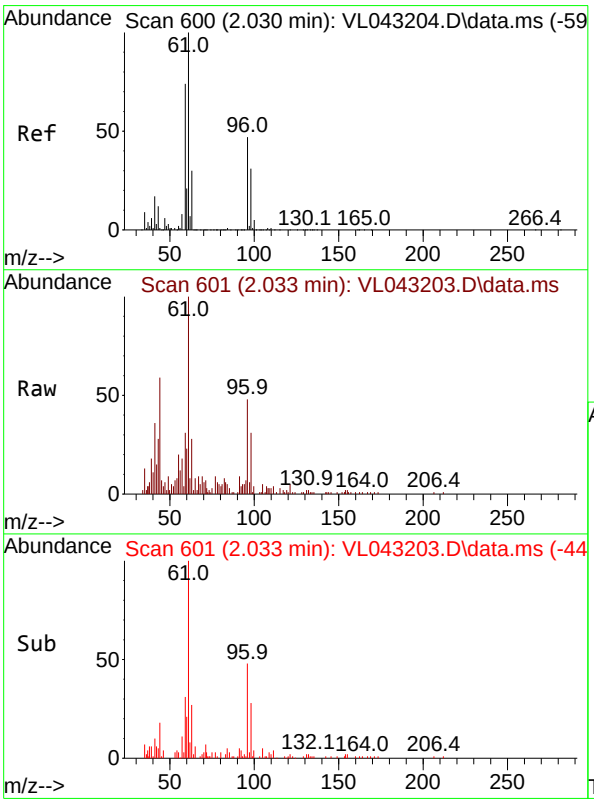
#17
tert-Butyl alcohol
Concen: 0.489 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 59 Resp: 9854

Ion	Ratio	Lower	Upper
59	100		
57	23.3	9.0	13.4#

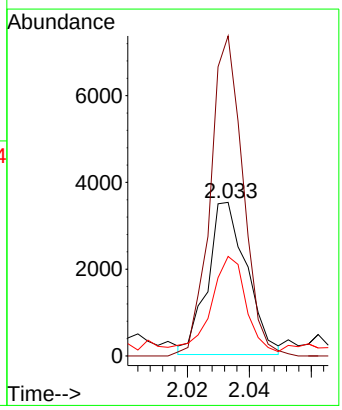


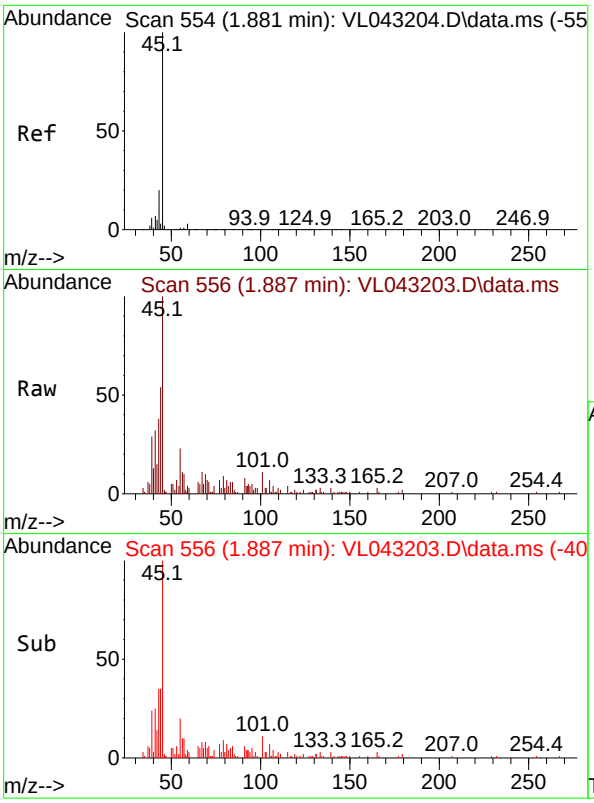


#18
1,1-Dichloroethene
Concen: 0.559 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



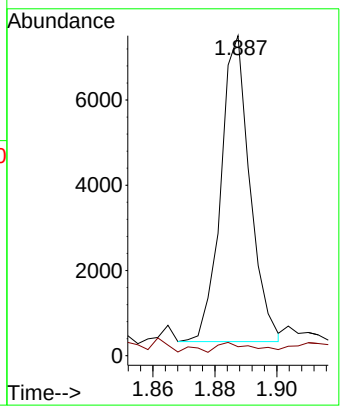


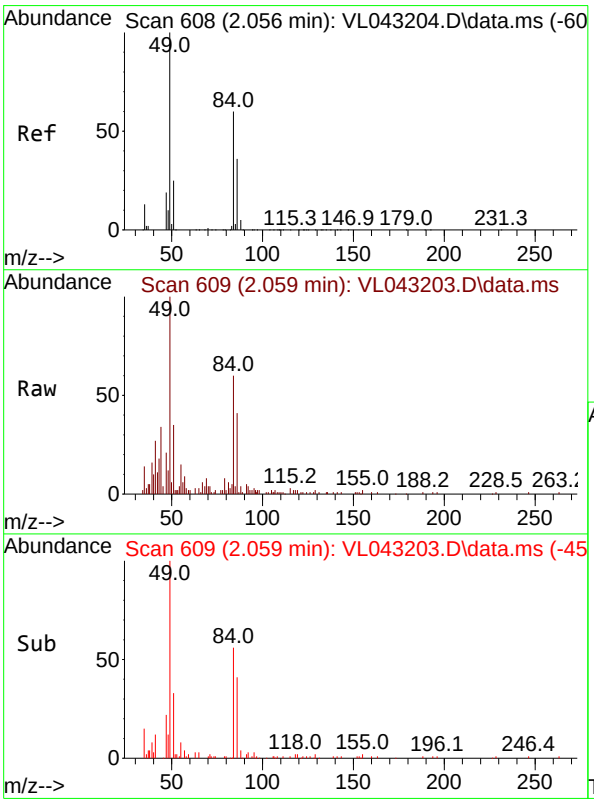
#19
Isopropyl Alcohol
Concen: 0.540 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 4687

Ion	Ratio	Lower	Upper
45	100		
58	9.0	31.3	46.9#

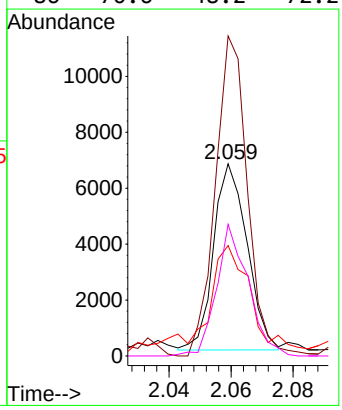


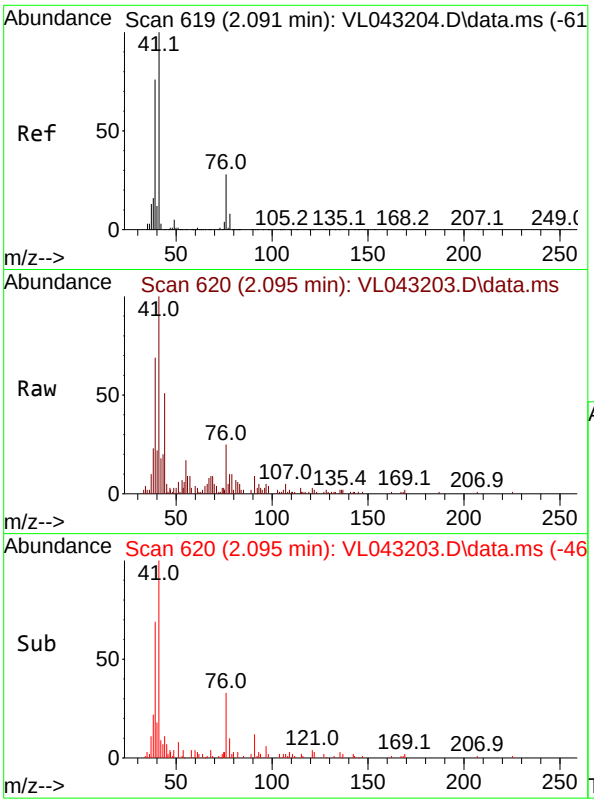


#20
Methylene Chloride
Concen: 0.349 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



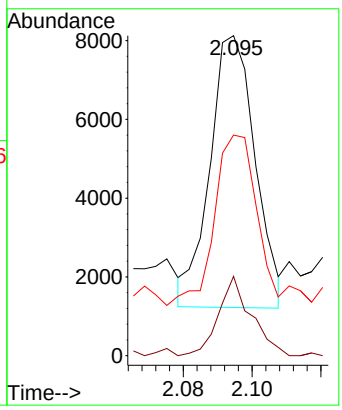


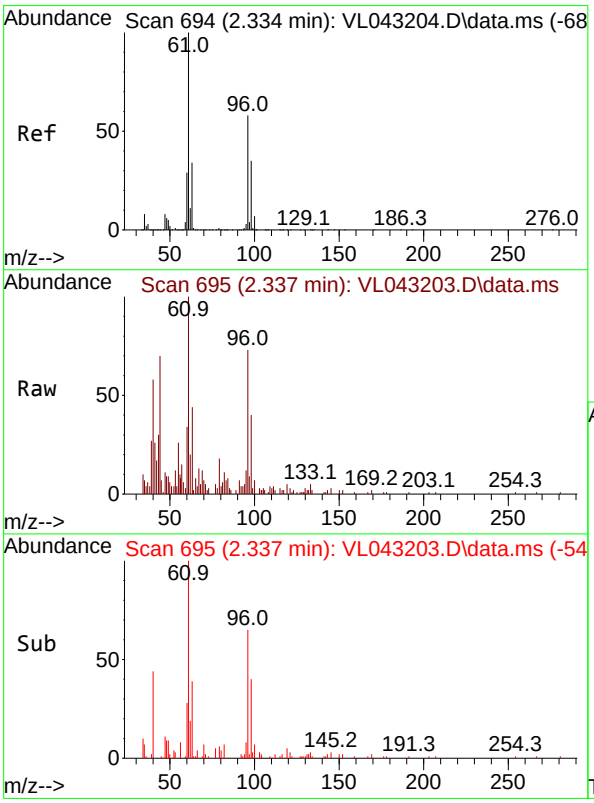
#21
Allyl Chloride
Concen: 0.609 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

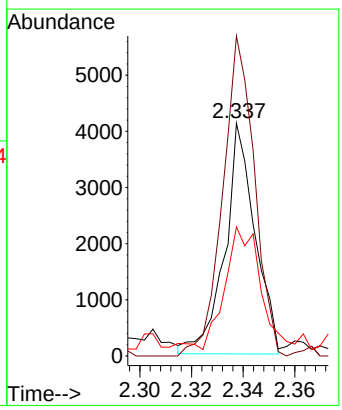


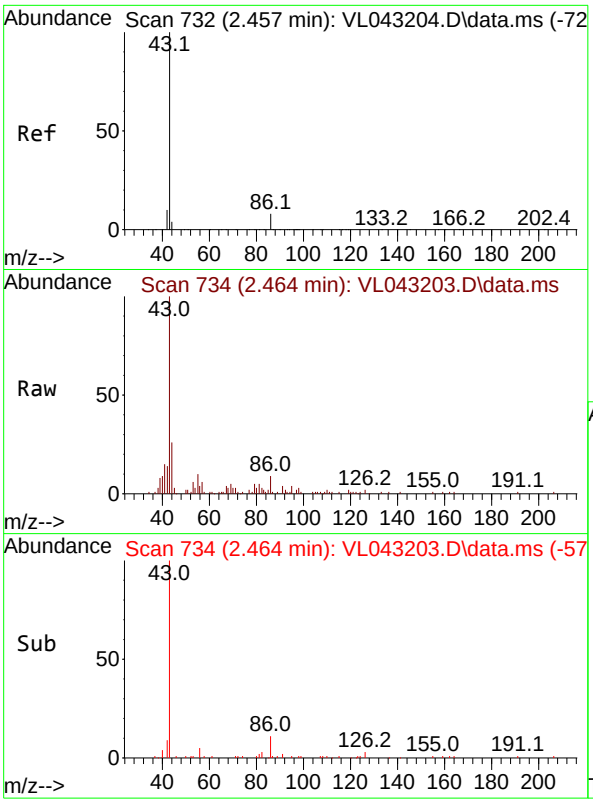


#22
trans-1,2-Dichloroethene
Concen: 0.533 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



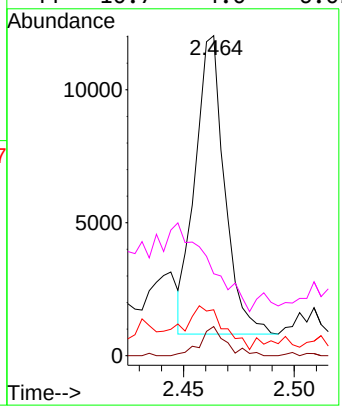


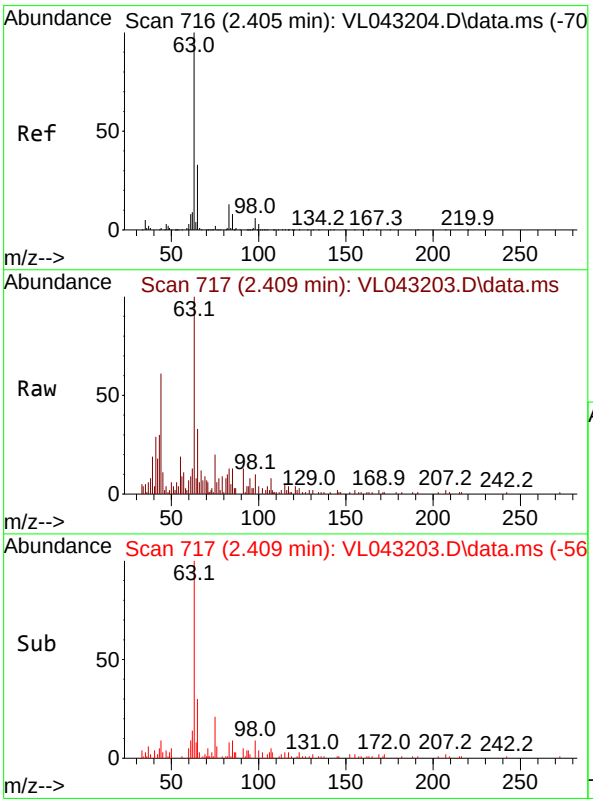
#23
Vinyl Acetate
Concen: 0.562 ppbv
RT: 2.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#

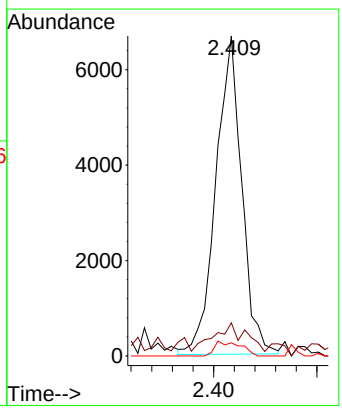


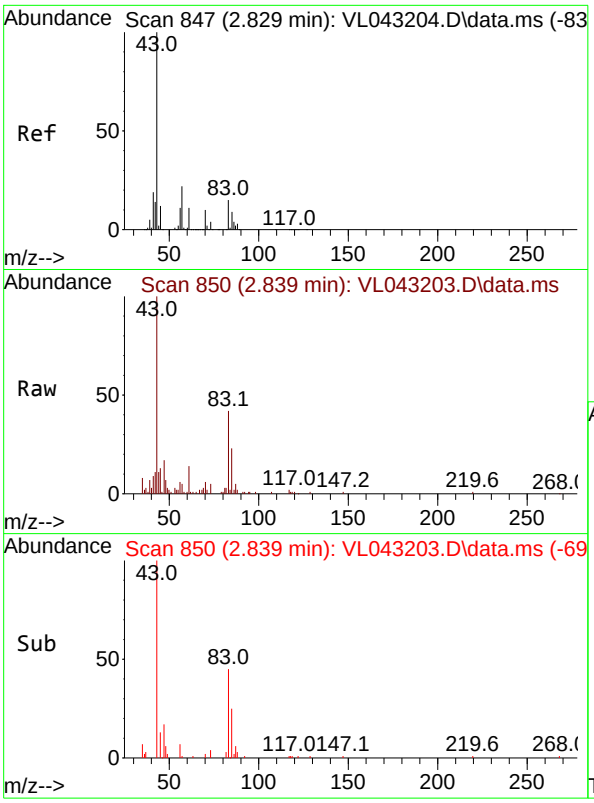


#24
1,1-Dichloroethane
Concen: 0.479 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#



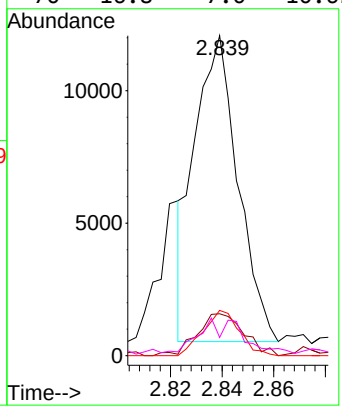


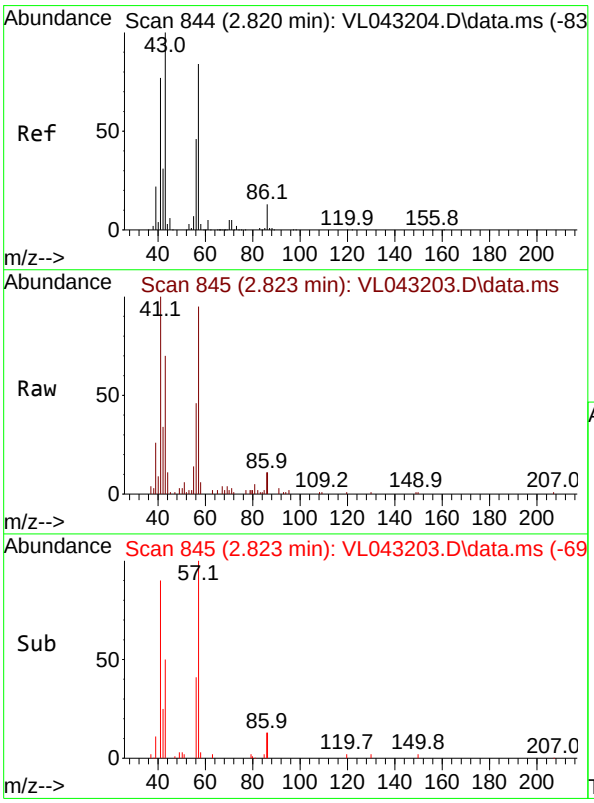
#25
Ethyl Acetate
Concen: 0.406 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#

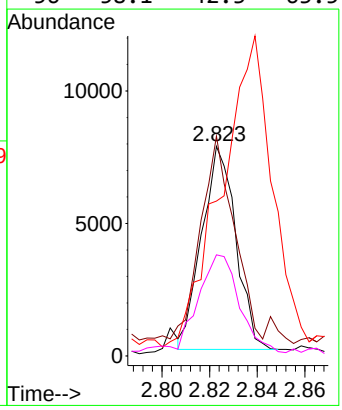


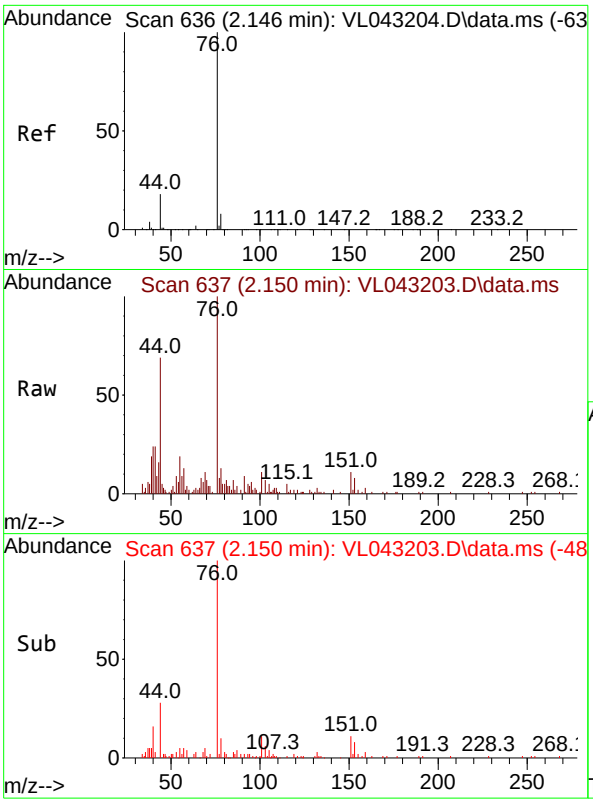


#26
Hexane
Concen: 0.523 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



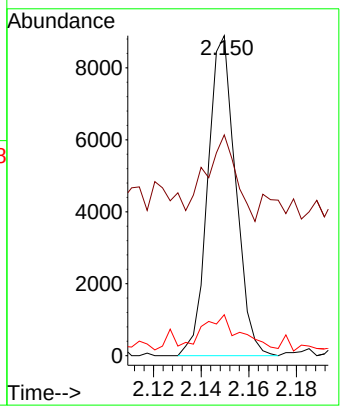


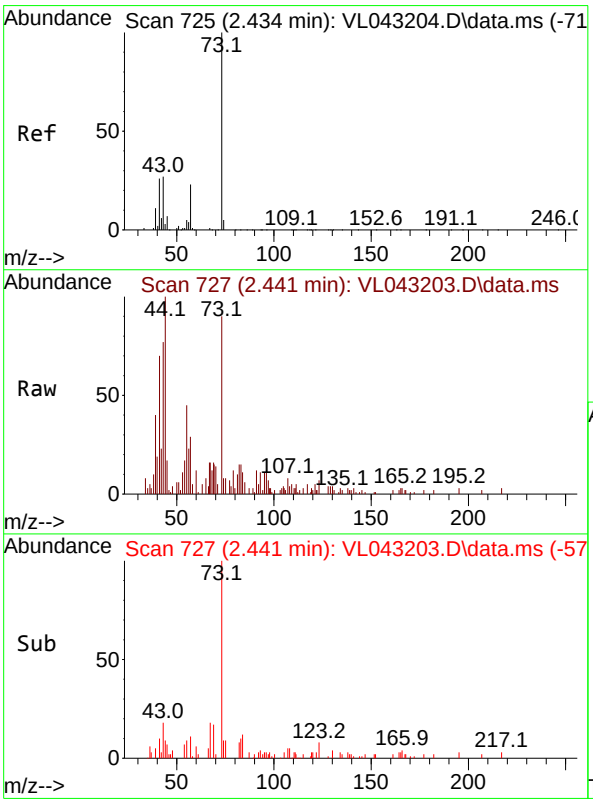
#27
Carbon Disulfide
Concen: 0.486 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#

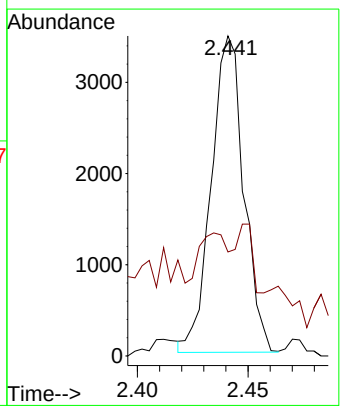


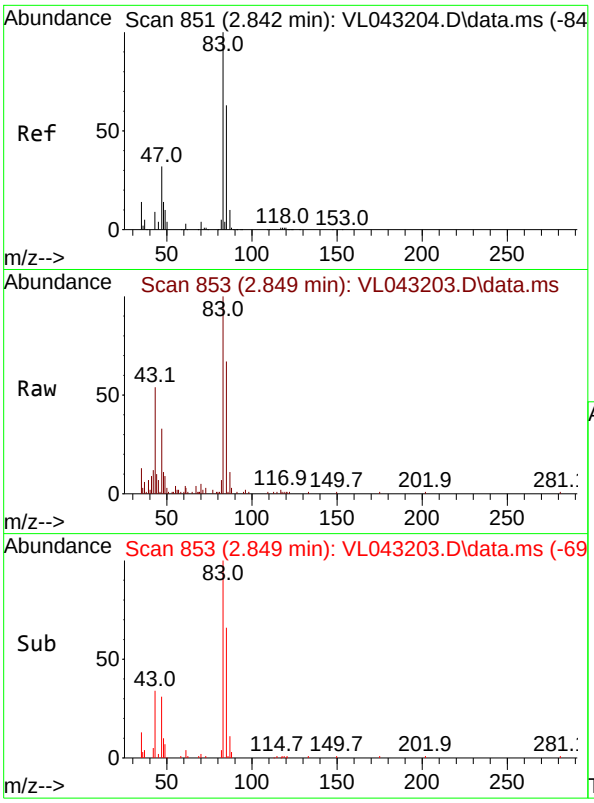


#28
Methyl tert-Butyl Ether
Concen: 0.498 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 73 Resp: 3545

Ion	Ratio	Lower	Upper
73	100		
57	67.2	19.8	29.8#



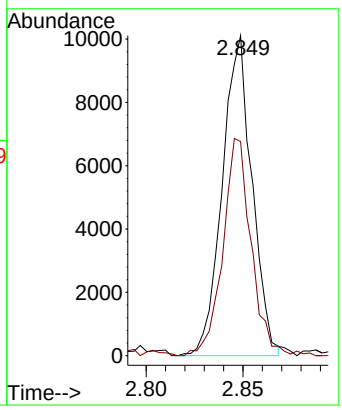


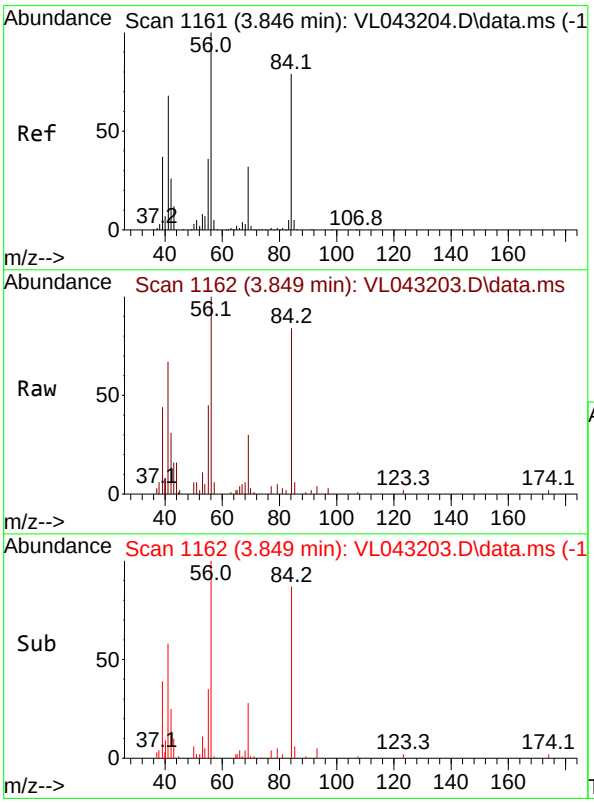
#29
Chloroform
Concen: 0.523 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 10800

Ion	Ratio	Lower	Upper
83	100		
85	66.9	50.5	75.7

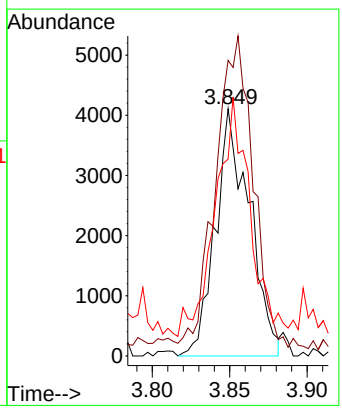


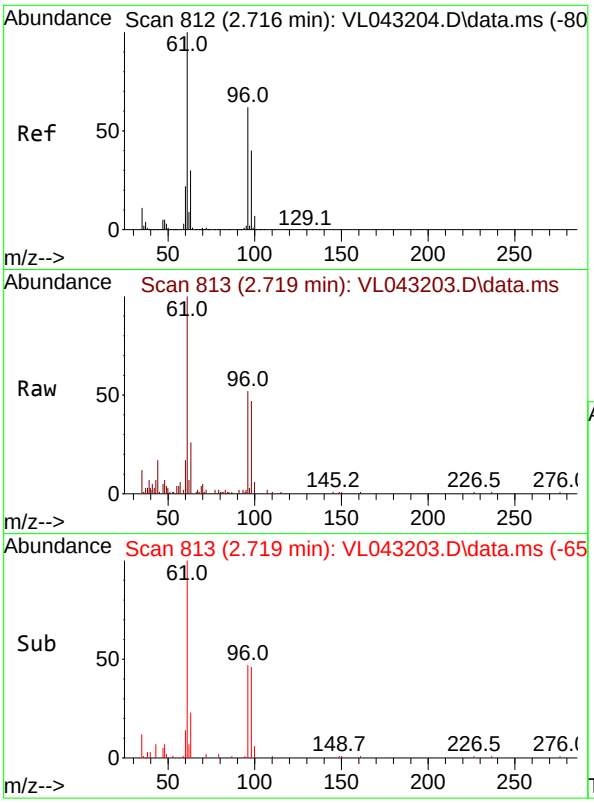


#30
Cyclohexane
Concen: 0.515 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



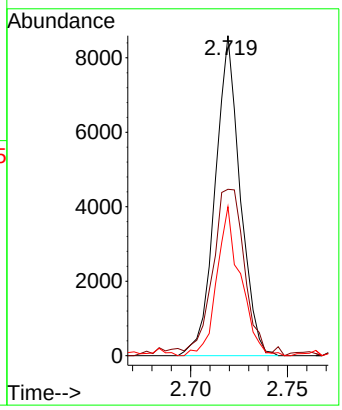


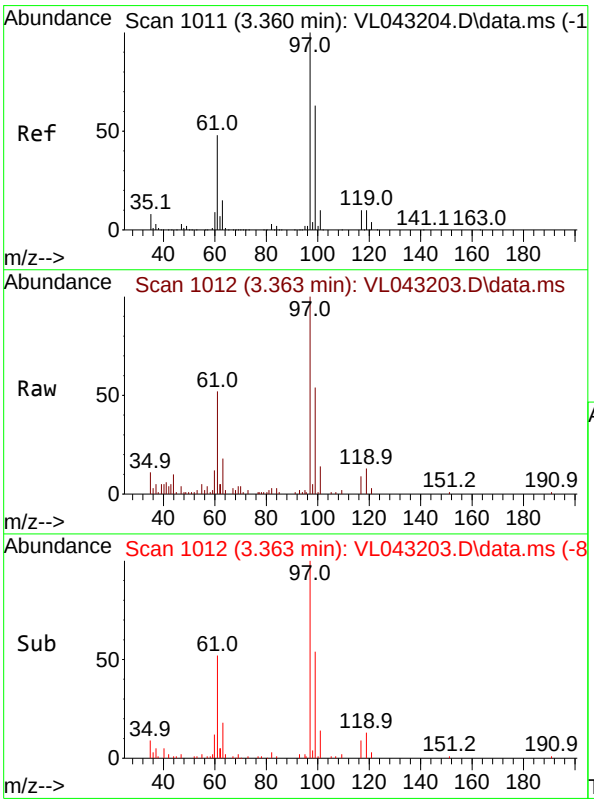
#31
cis-1,2-Dichloroethene
Concen: 0.536 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

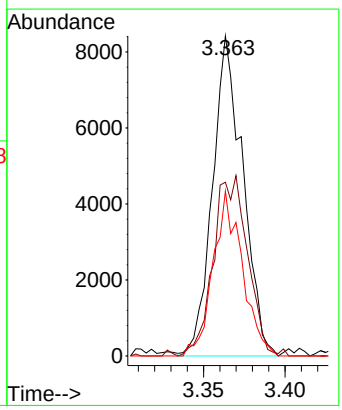


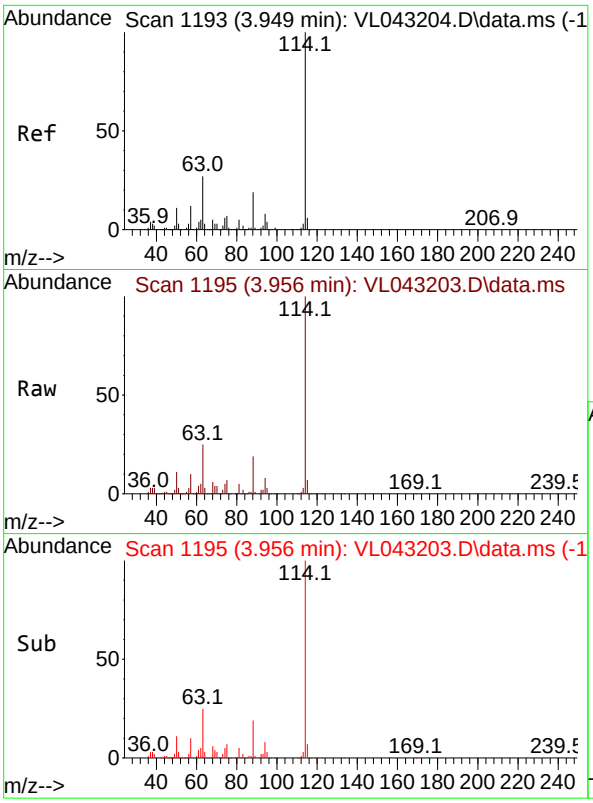


#32
1,1,1-Trichloroethane
Concen: 0.490 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



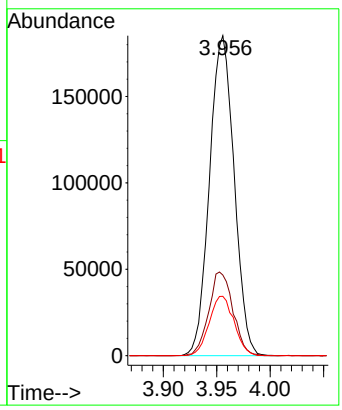


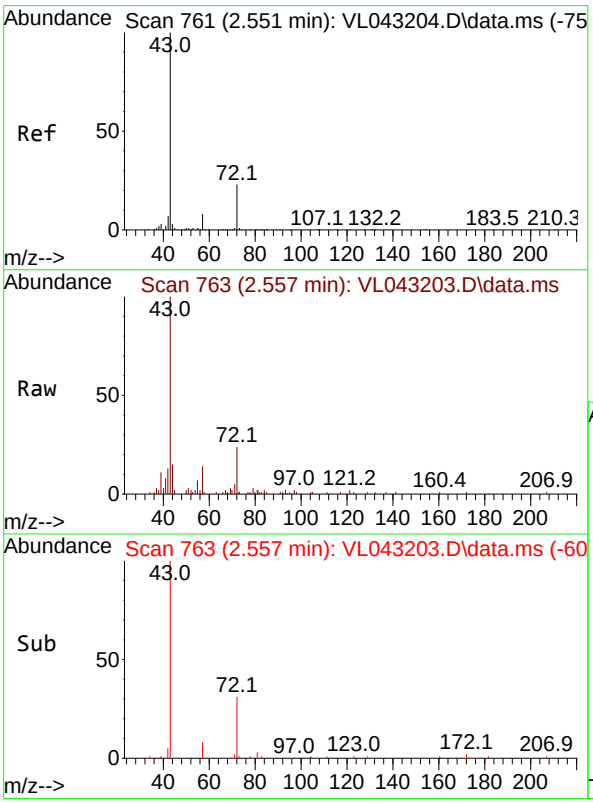
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

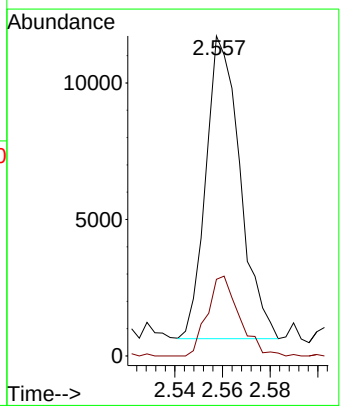


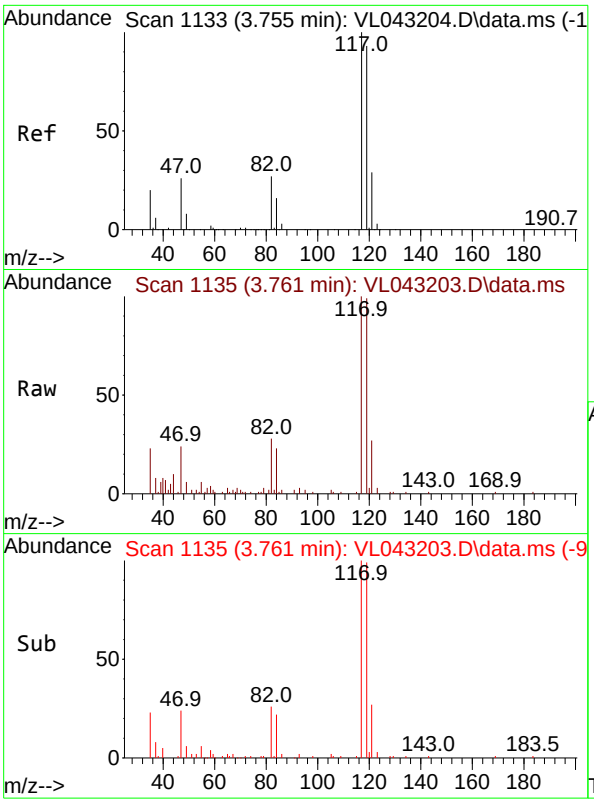


#34
2-Butanone
Concen: 0.527 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 11026

Ion	Ratio	Lower	Upper
43	100		
72	24.9	18.1	27.1



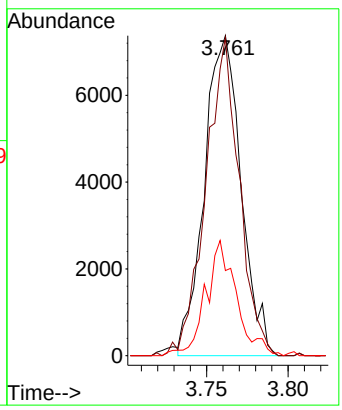


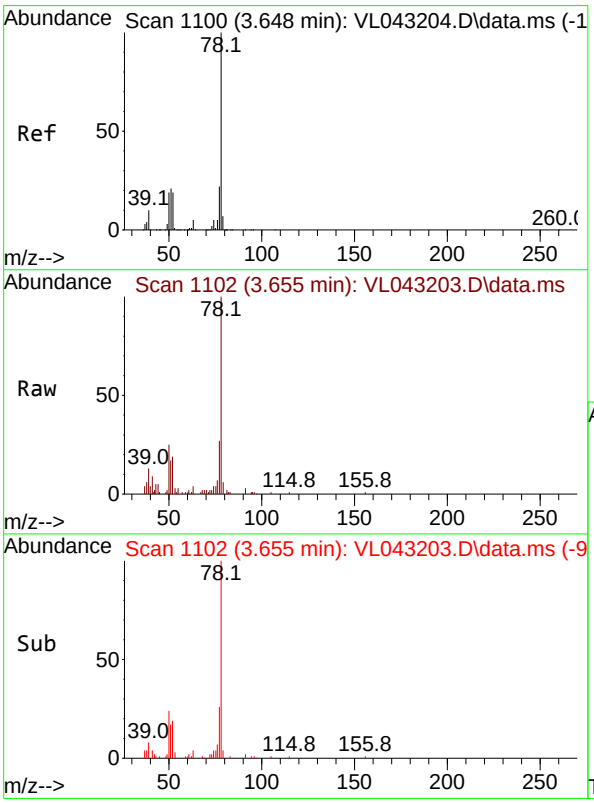
#35
Carbon Tetrachloride
Concen: 0.513 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

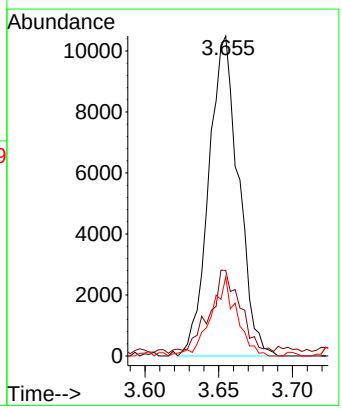


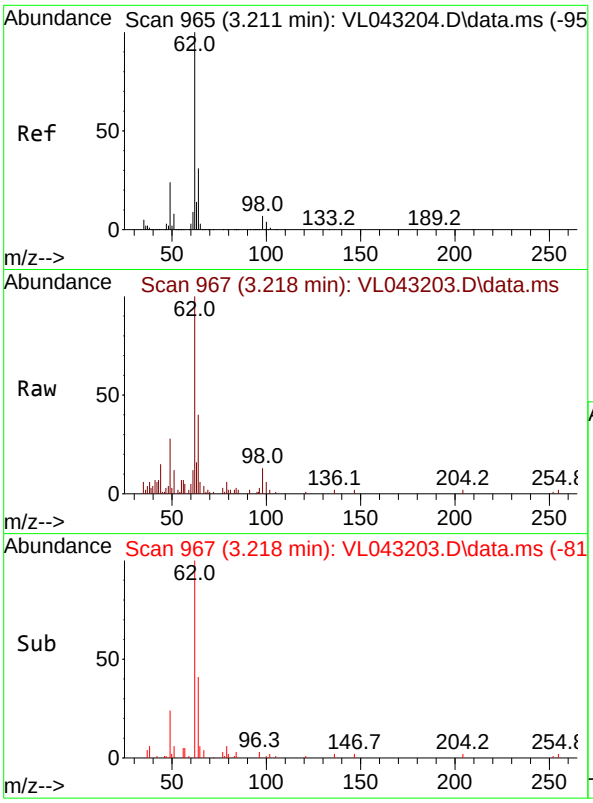


#36
Benzene
Concen: 0.520 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#



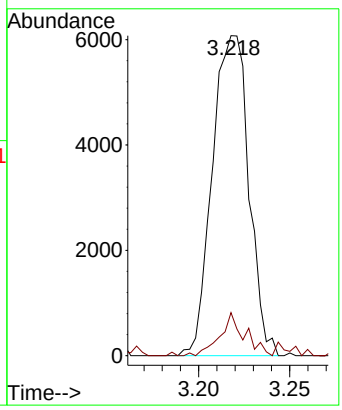


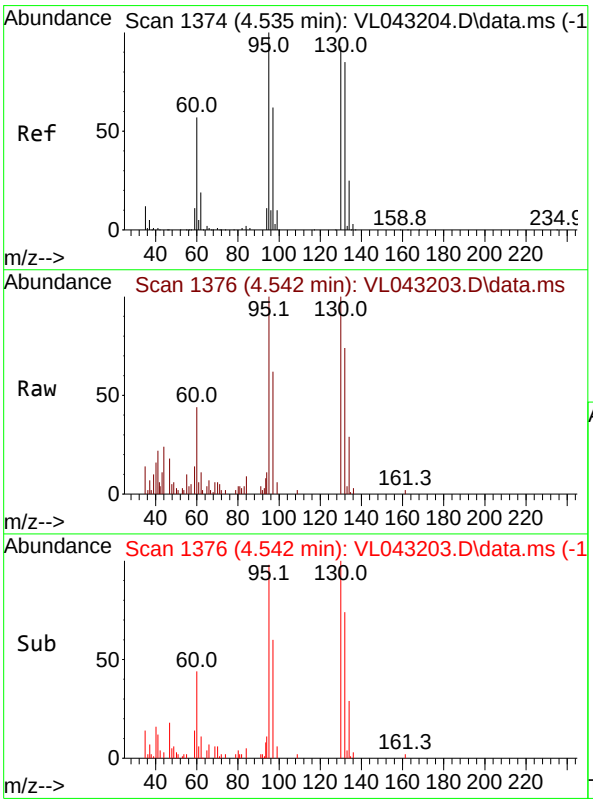
#37
1,2-Dichloroethane
Concen: 0.510 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 8477

Ion	Ratio	Lower	Upper
62	100		
98	9.2	5.5	8.3#

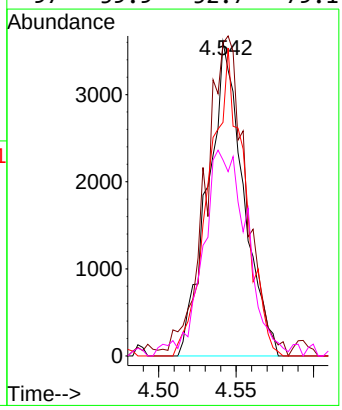


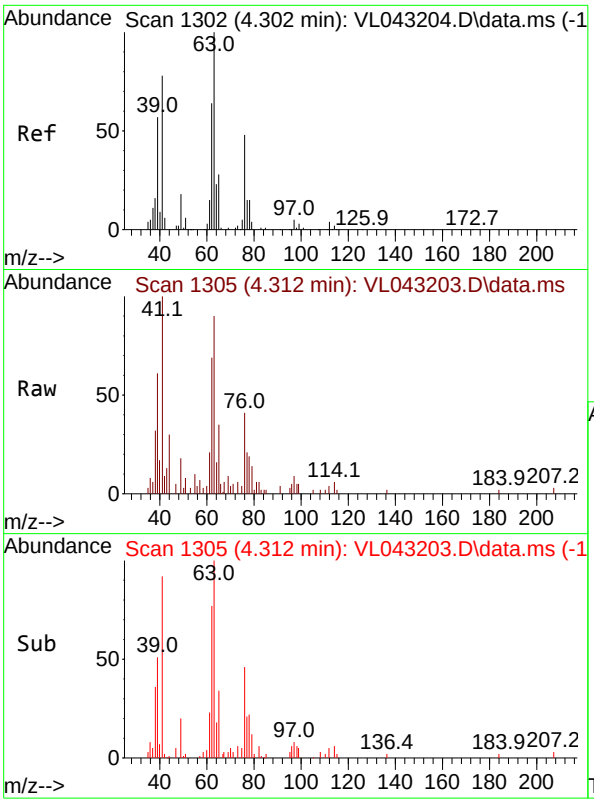


#38
Trichloroethene
Concen: 0.519 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



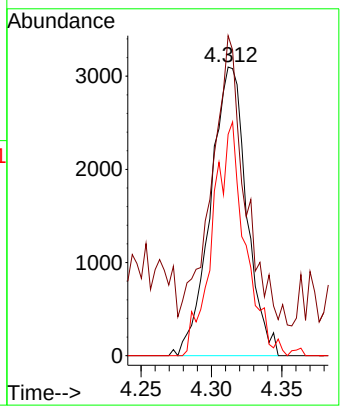


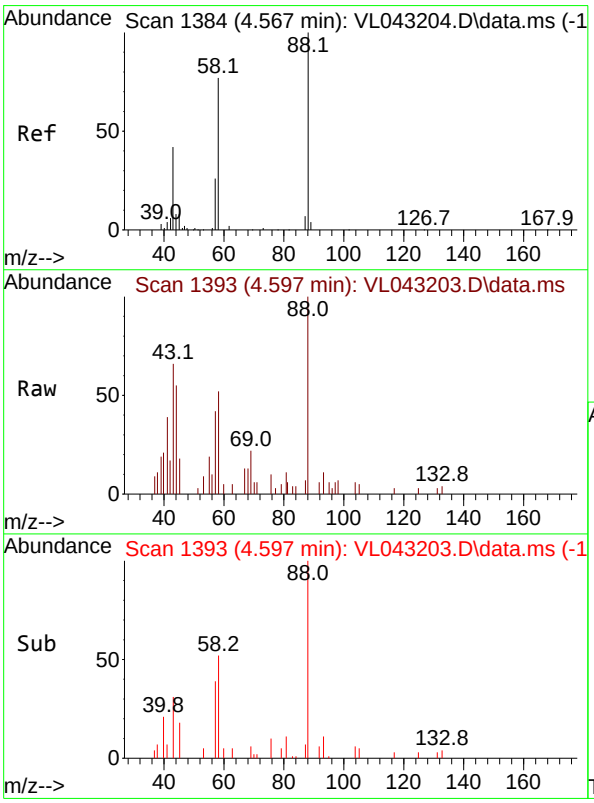
#39
1,2-Dichloropropane
Concen: 0.530 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#

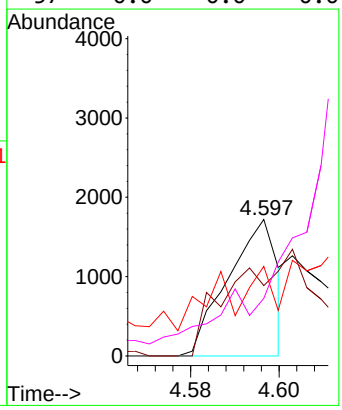


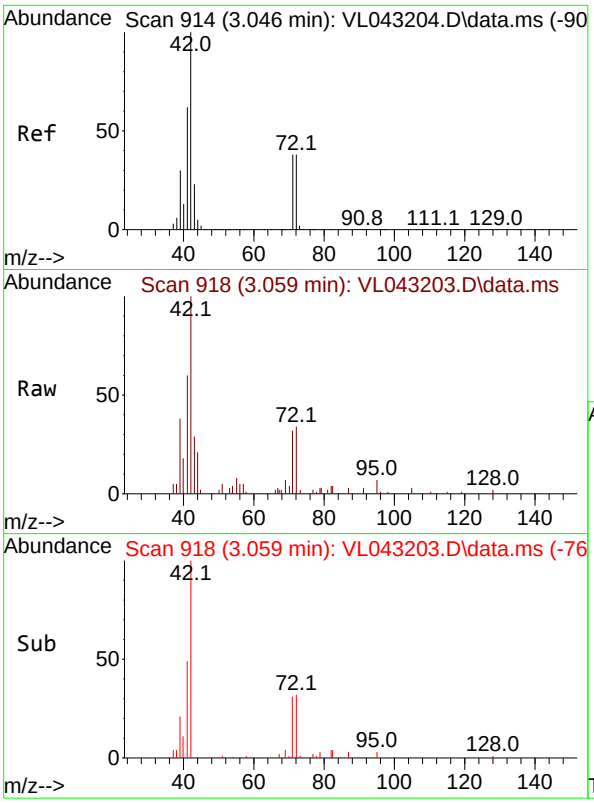


#40
1,4-Dioxane
Concen: 0.286 ppbv
RT: 4.597 min Scan# 1393
Delta R.T. 0.029 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



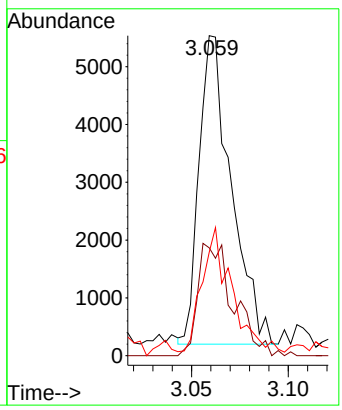


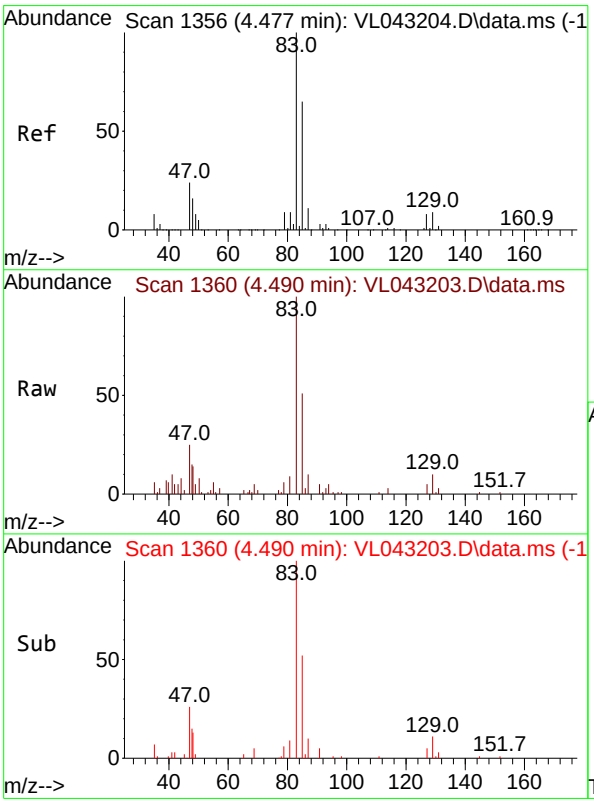
#41
Tetrahydrofuran
Concen: 0.536 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

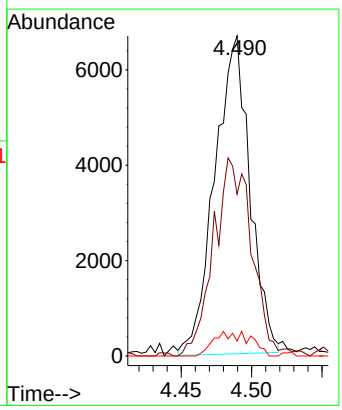


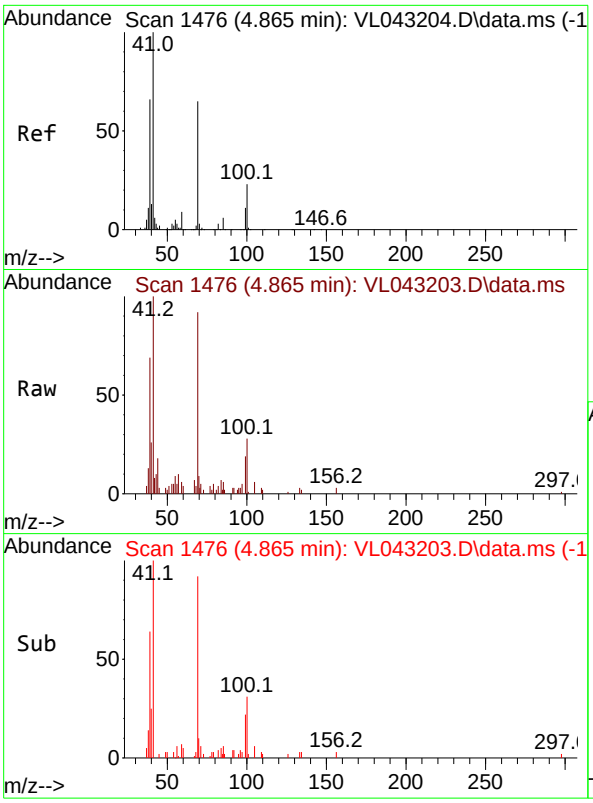


#42
Bromodichloromethane
Concen: 0.506 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#



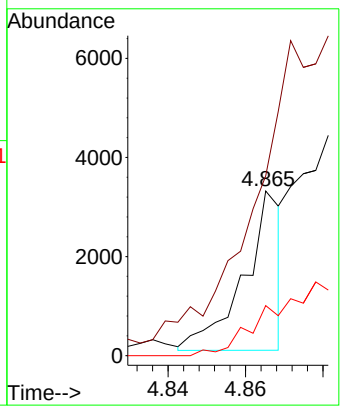


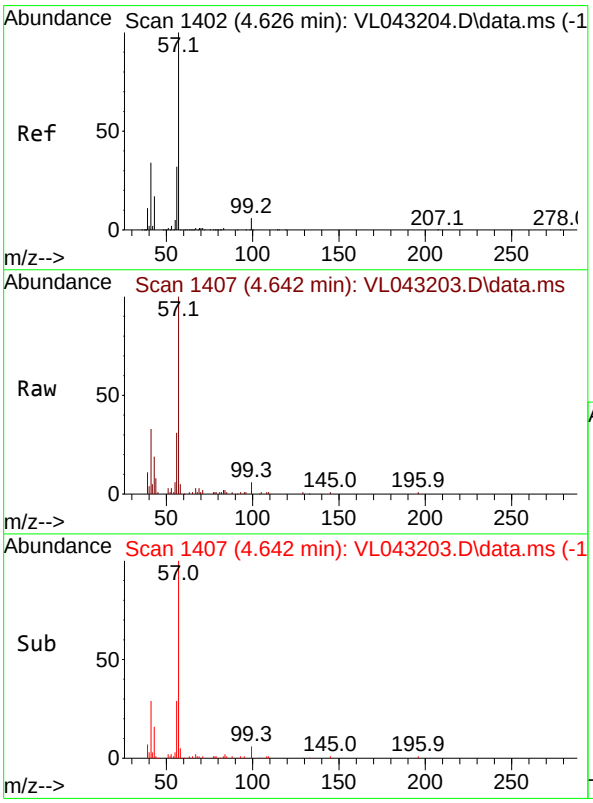
#43
Methyl Methacrylate
Concen: 0.143 ppbv
RT: 4.865 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#

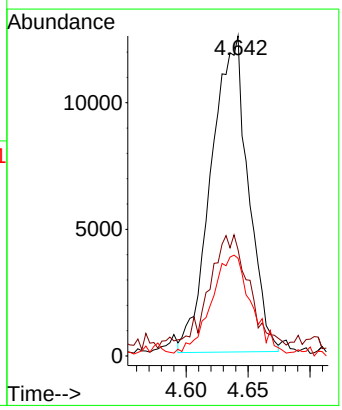


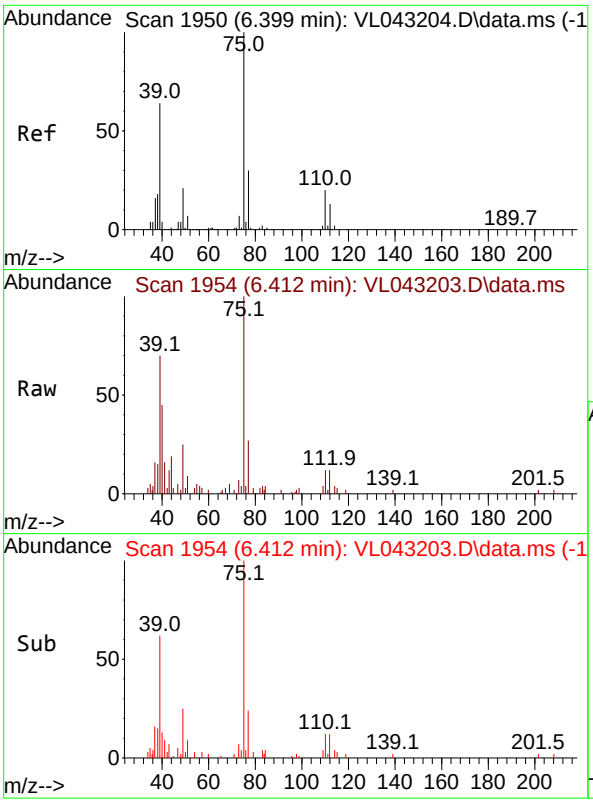


#44
2,2,4-Trimethylpentane
Concen: 0.531 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



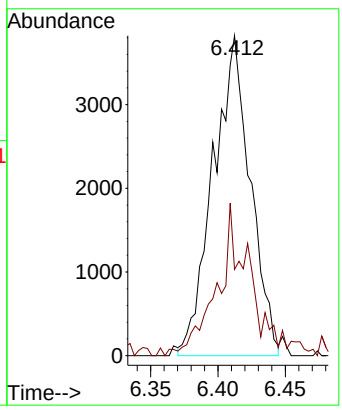


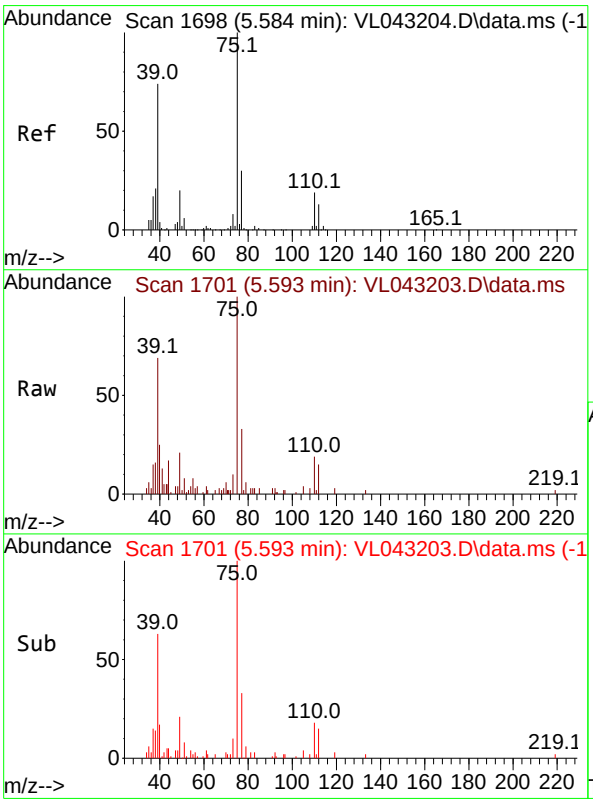
#45
t-1,3-Dichloropropene
Concen: 0.523 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 75 Resp: 7343

Ion	Ratio	Lower	Upper
75	100		
77	26.9	24.3	36.5

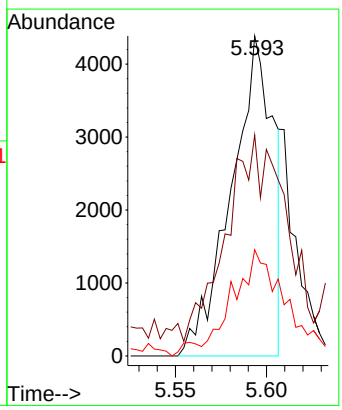


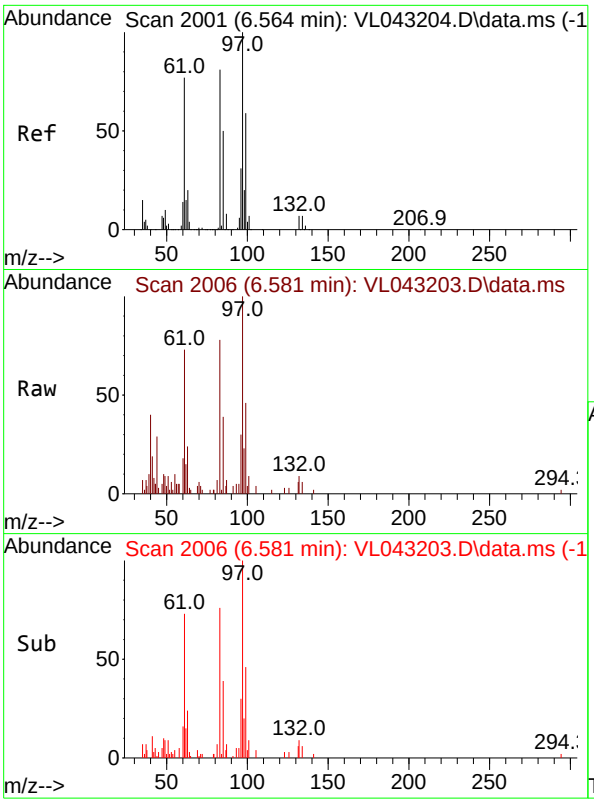


#46
cis-1,3-Dichloropropene
Concen: 0.425 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



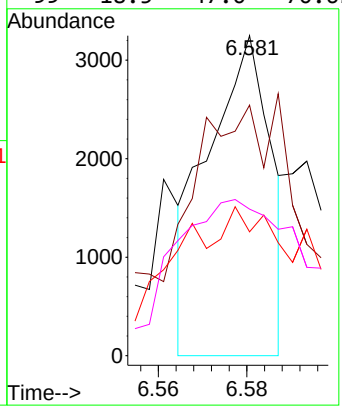


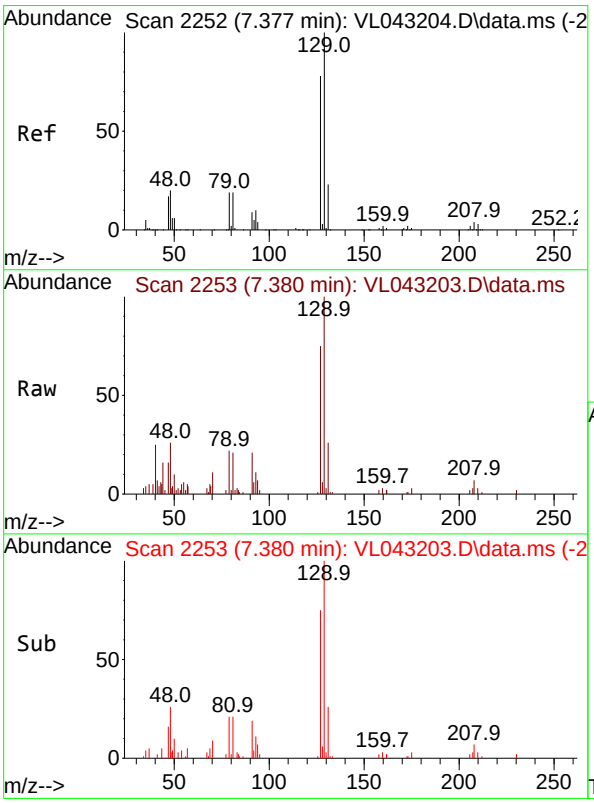
#47
1,1,2-Trichloroethane
Concen: 0.290 ppbv
RT: 6.581 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#

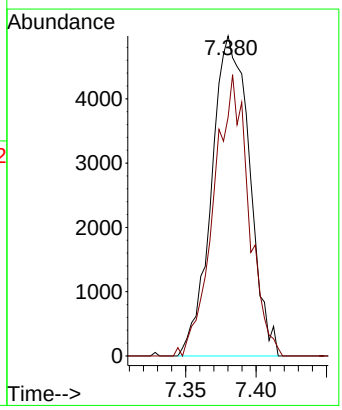


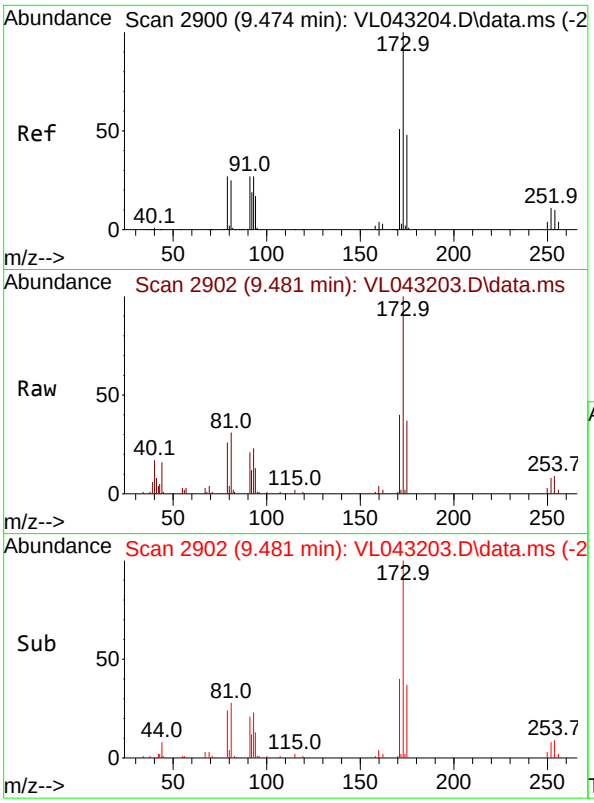


#48
Dibromochloromethane
Concen: 0.492 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:129 Resp: 9327

Ion	Ratio	Lower	Upper
129	100		
127	80.8	39.3	117.9



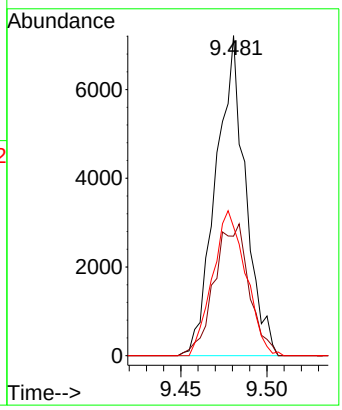


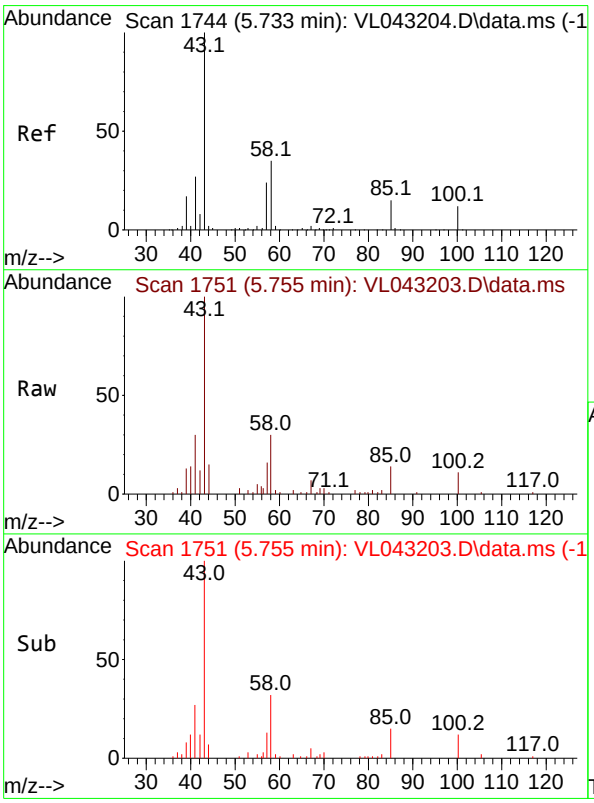
#49
Bromoform
Concen: 0.514 ppbv
RT: 9.481 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

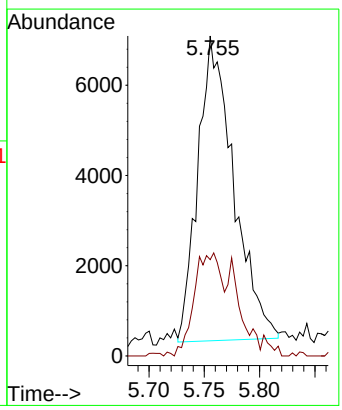


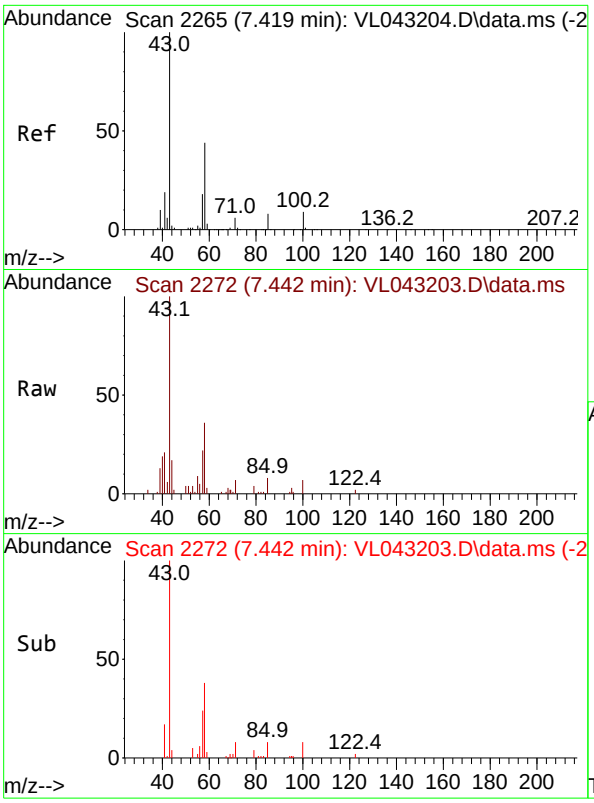


#50
4-Methyl-2-Pentanone
Concen: 0.515 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.023 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 15190

Ion	Ratio	Lower	Upper
43	100		
58	40.3	28.4	42.6



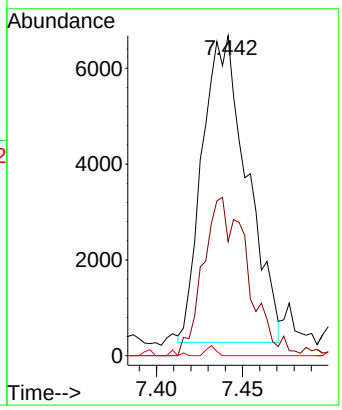


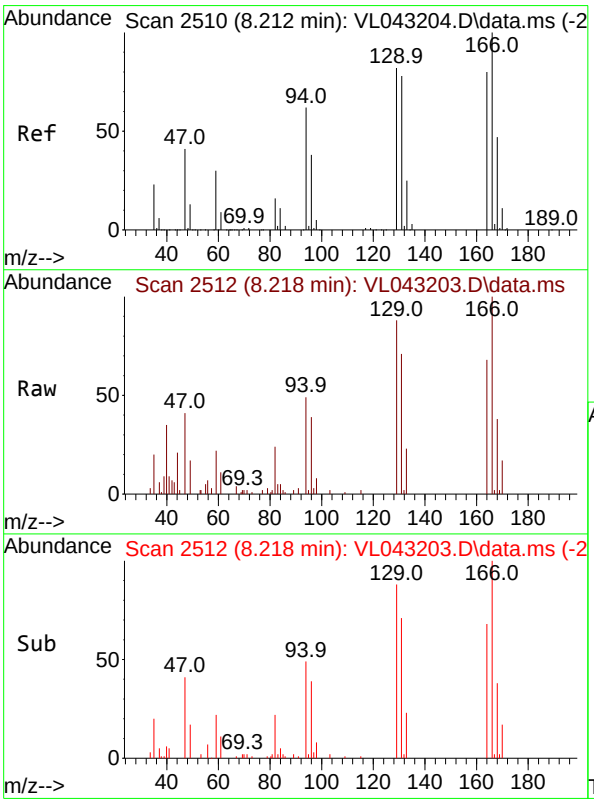
#51
2-Hexanone
Concen: 0.506 ppbv
RT: 7.442 min Scan# 2
Delta R.T. 0.023 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#

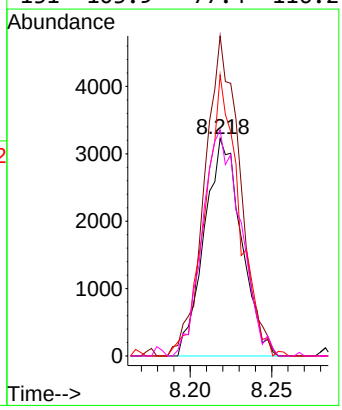


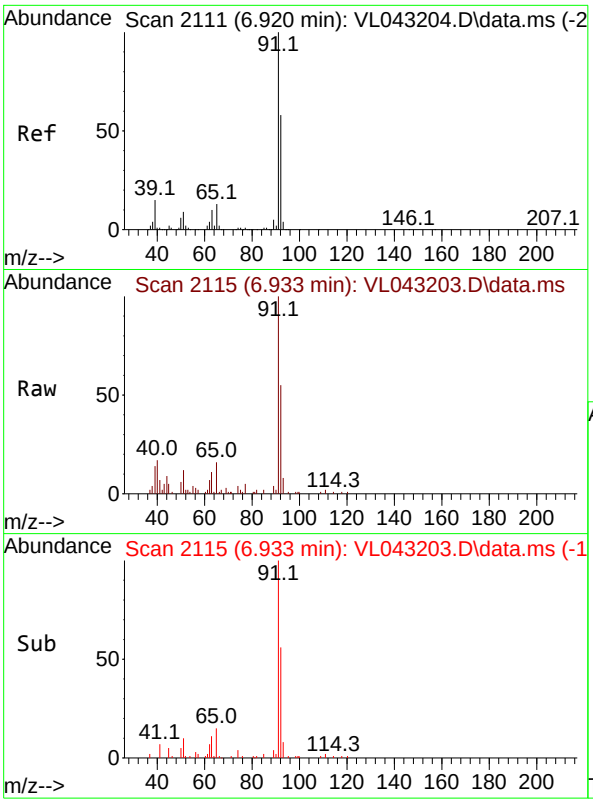


#52
Tetrachloroethene
Concen: 0.483 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



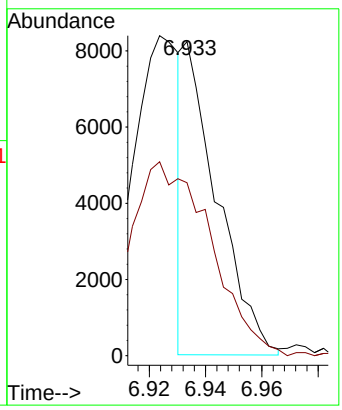


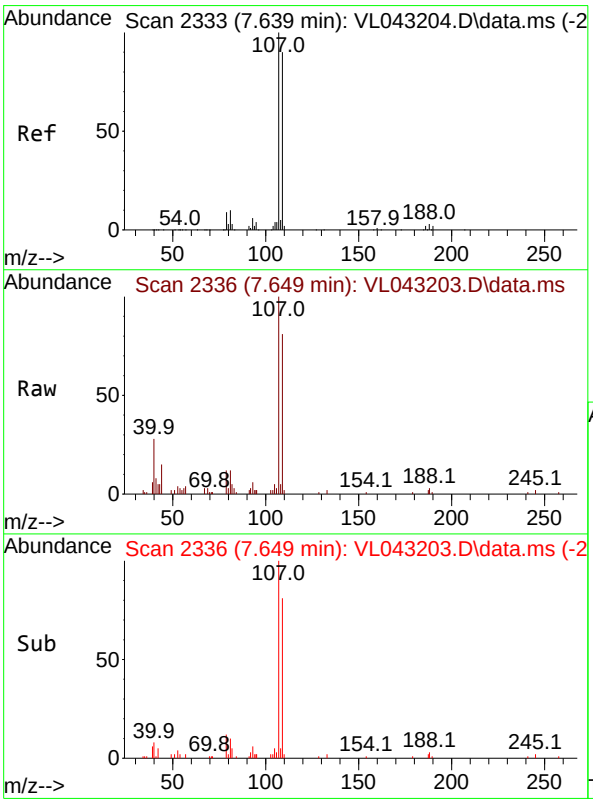
#53
Toluene
Concen: 0.203 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 6863

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.0#

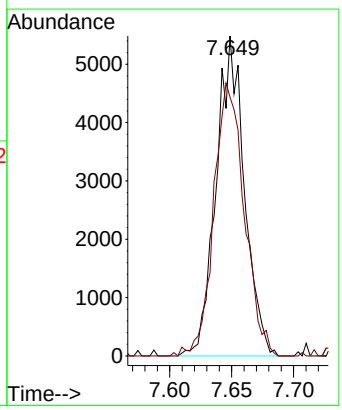


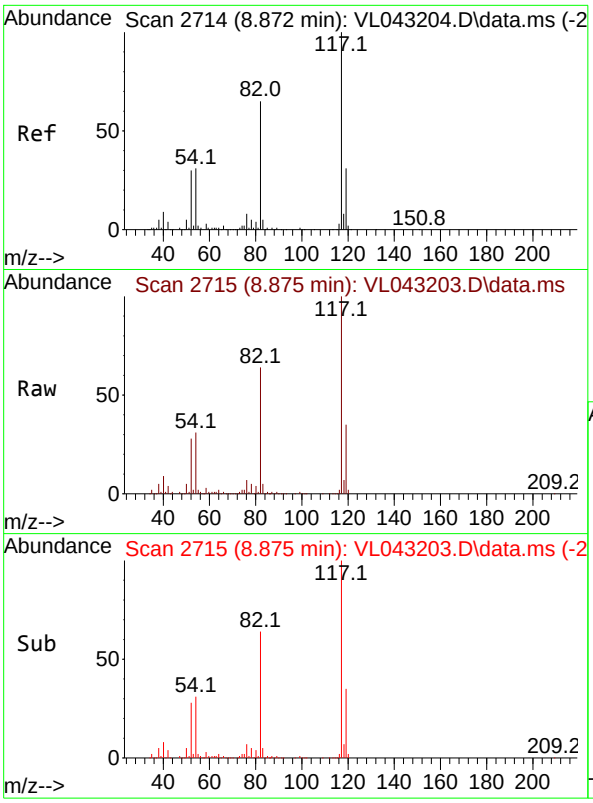


#54
1,2-Dibromoethane
Concen: 0.537 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:107 Resp: 8708

Ion	Ratio	Lower	Upper
107	100		
109	80.8	72.1	108.1



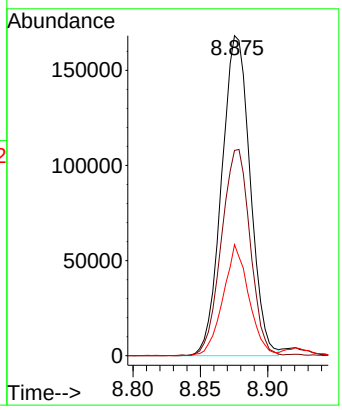


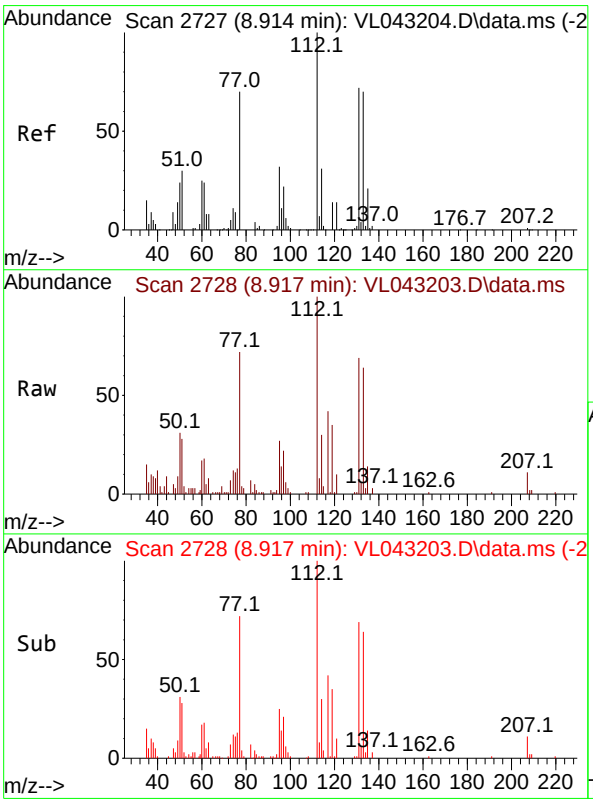
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

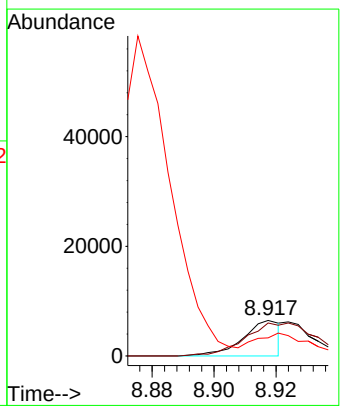


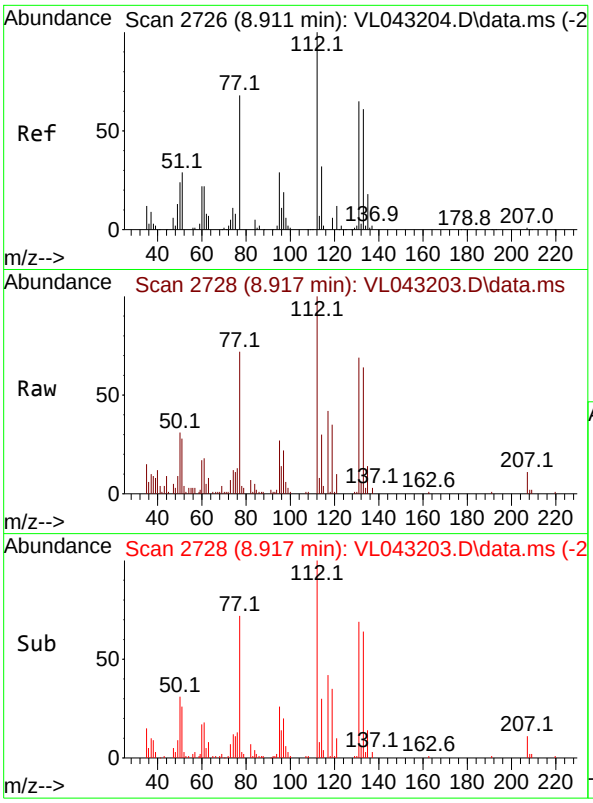


#56
1,1,1,2-Tetrachloroethane
Concen: 0.298 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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#



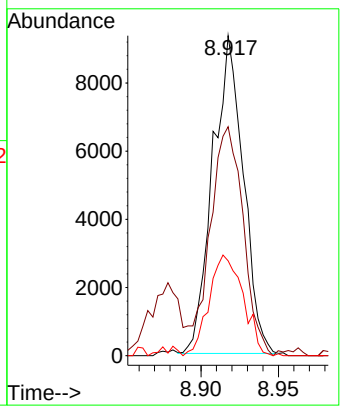


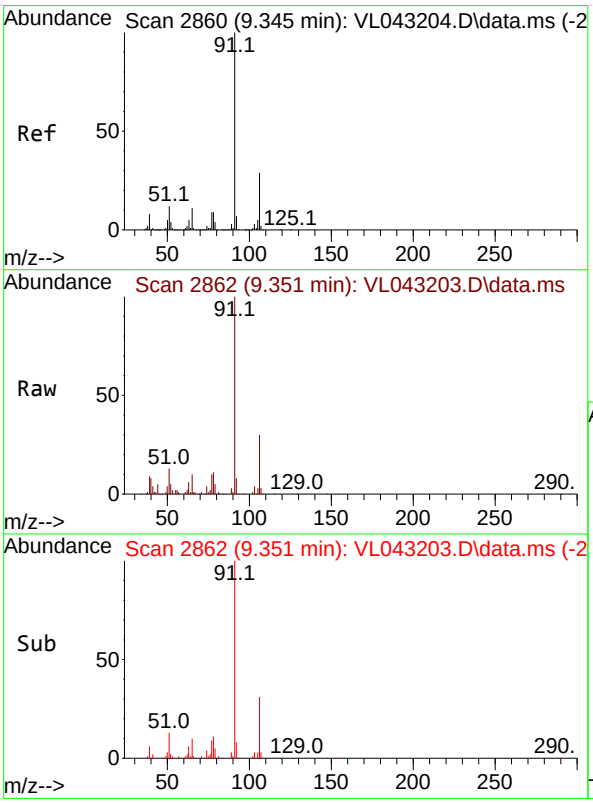
#57
Chlorobenzene
Concen: 0.504 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

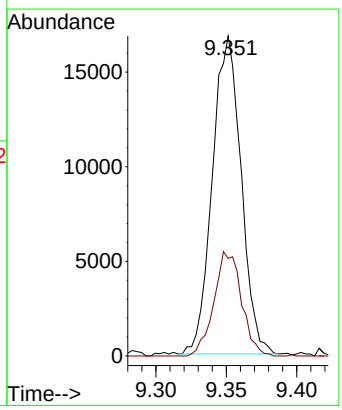


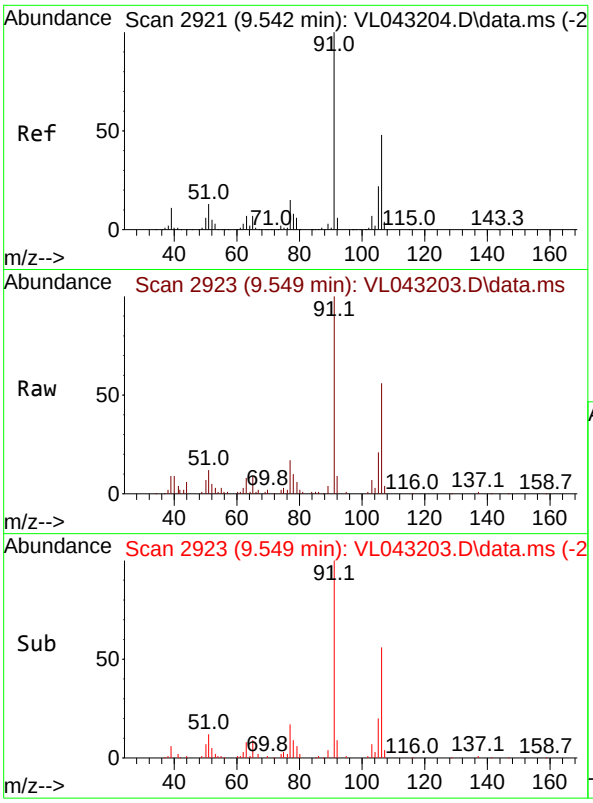


#58
Ethyl Benzene
Concen: 0.500 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 23866

Ion	Ratio	Lower	Upper
91	100		
106	30.7	22.8	34.2



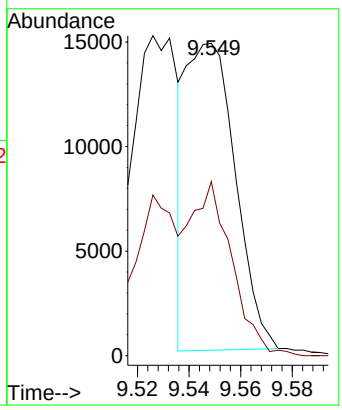


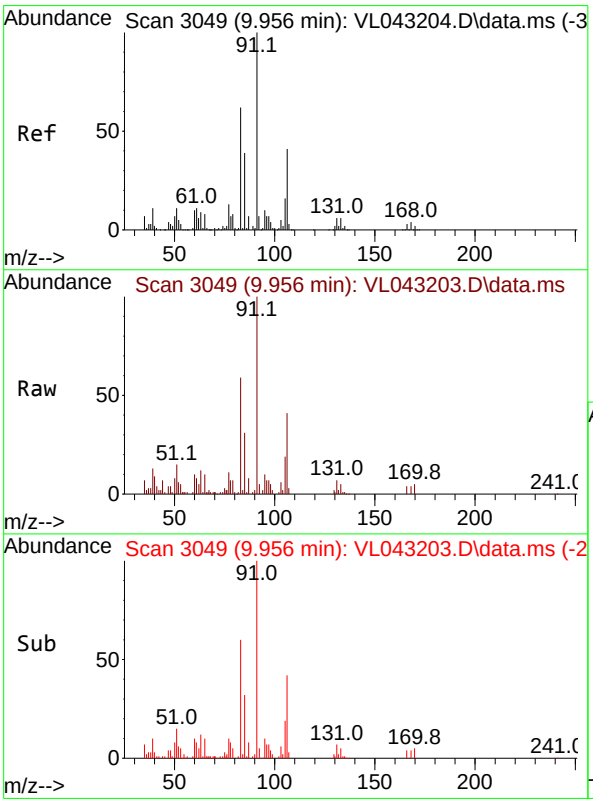
#59
m/p-Xylene
Concen: 0.507 ppbv
RT: 9.549 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 19470

Ion	Ratio	Lower	Upper
91	100		
106	94.6	36.1	54.1#

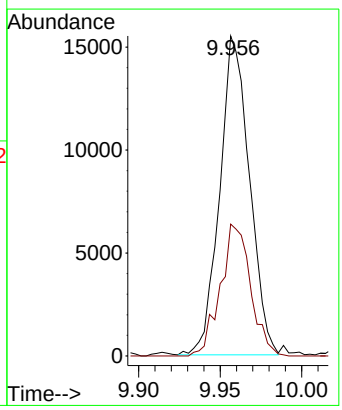


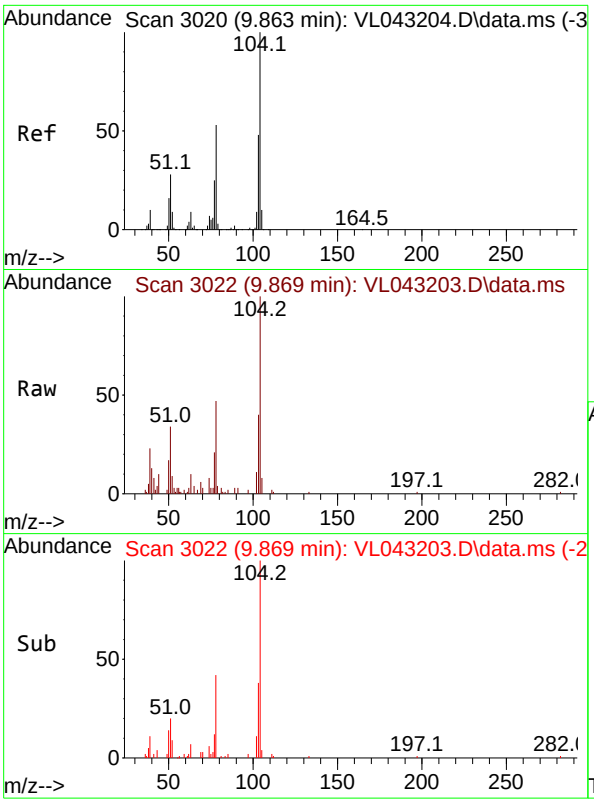


#60
o-Xylene
Concen: 0.514 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 19621

Ion	Ratio	Lower	Upper
91	100		
106	42.0	20.9	62.8



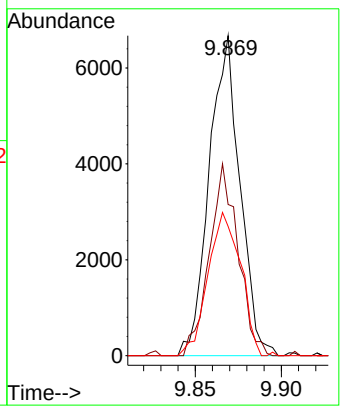


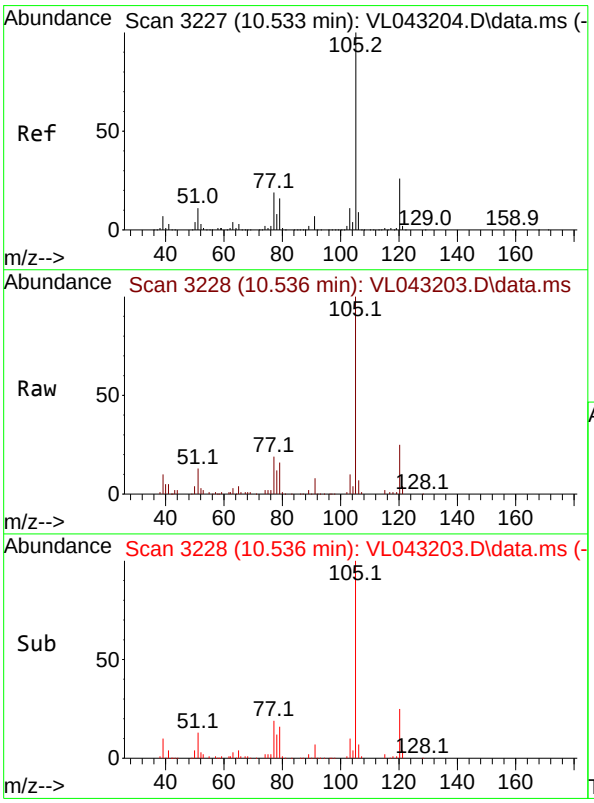
#61
Styrene
Concen: 0.496 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

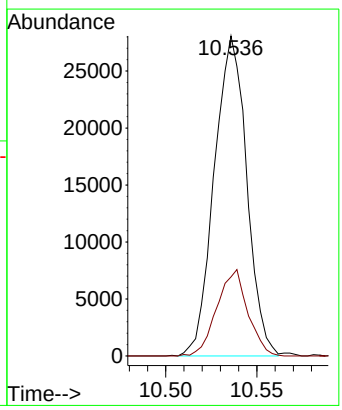


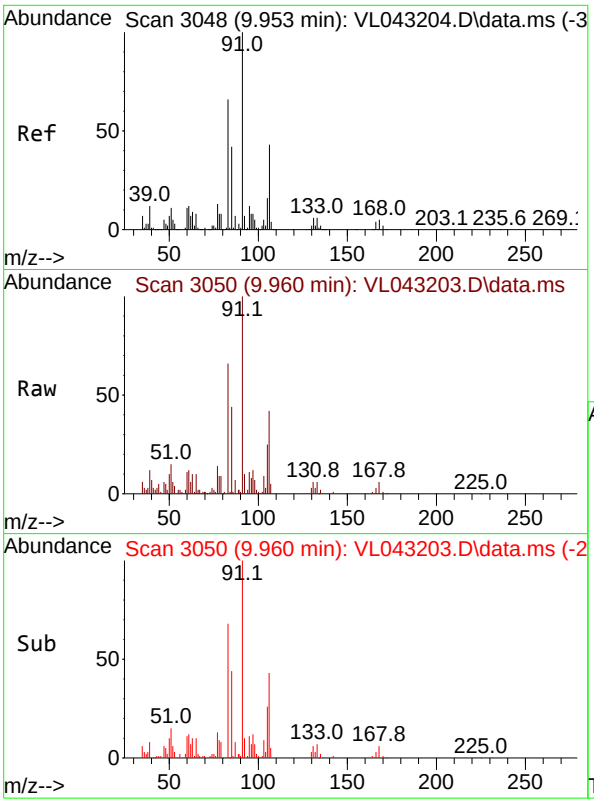


#62
Isopropylbenzene
Concen: 0.509 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:105 Resp: 34773

Ion	Ratio	Lower	Upper
105	100		
120	25.6	19.8	29.8



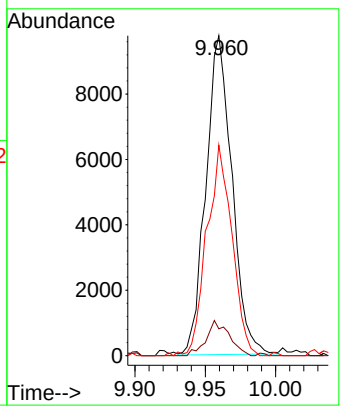


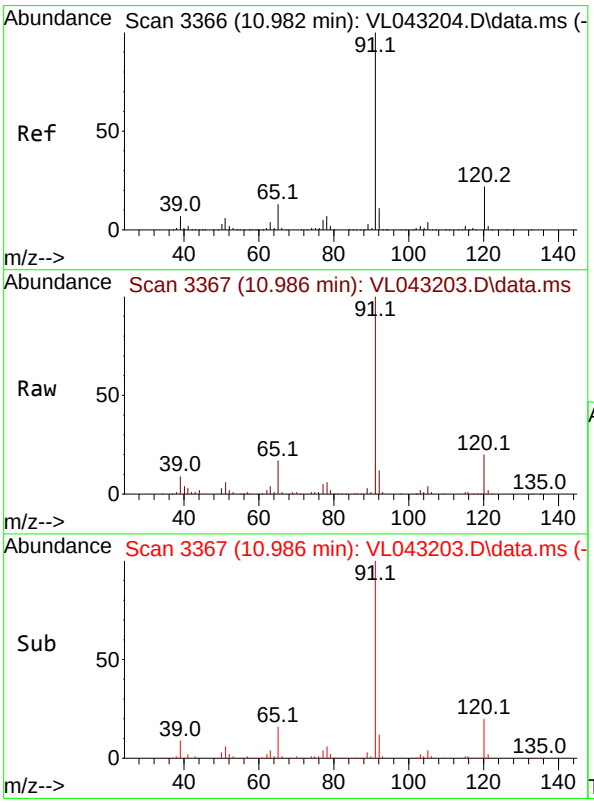
#63
1,1,2,2-Tetrachloroethane
Concen: 0.519 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

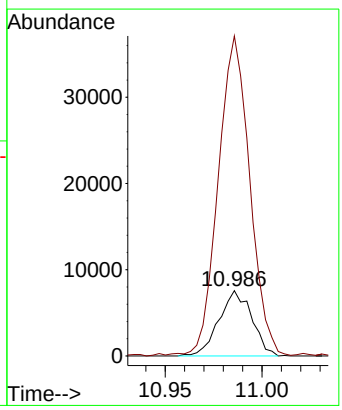


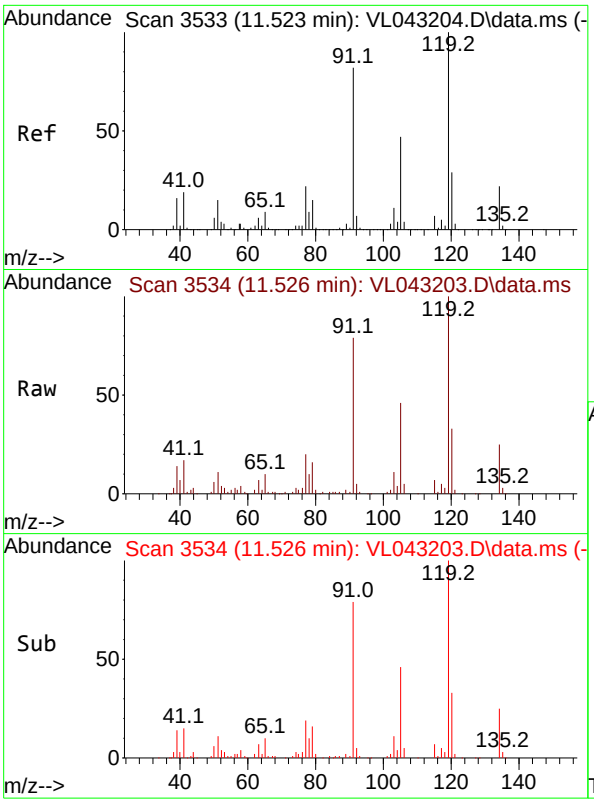


#64
n-propylbenzene
Concen: 0.509 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:120 Resp: 8945

Ion	Ratio	Lower	Upper
120	100		
91	472.3	377.1	565.7



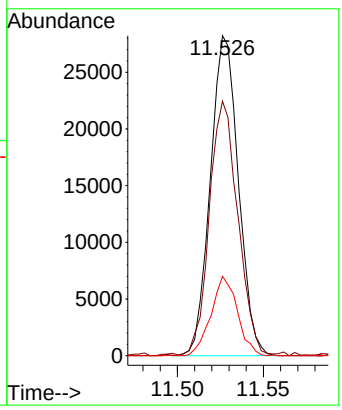


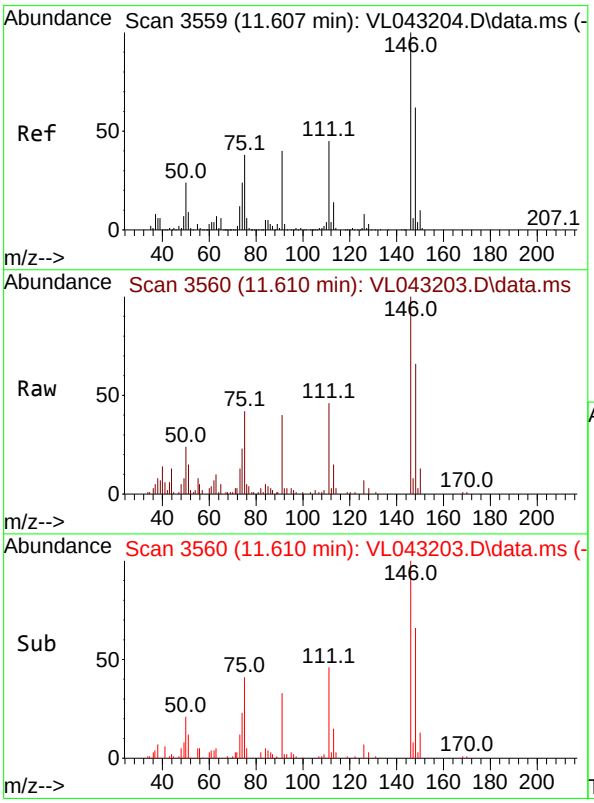
#65
tert-Butylbenzene
Concen: 0.524 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

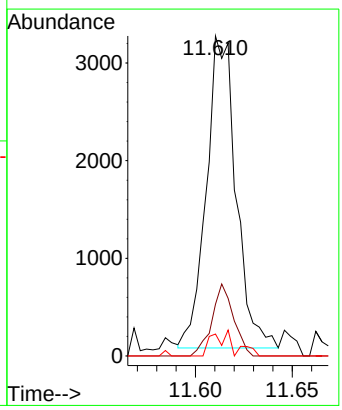


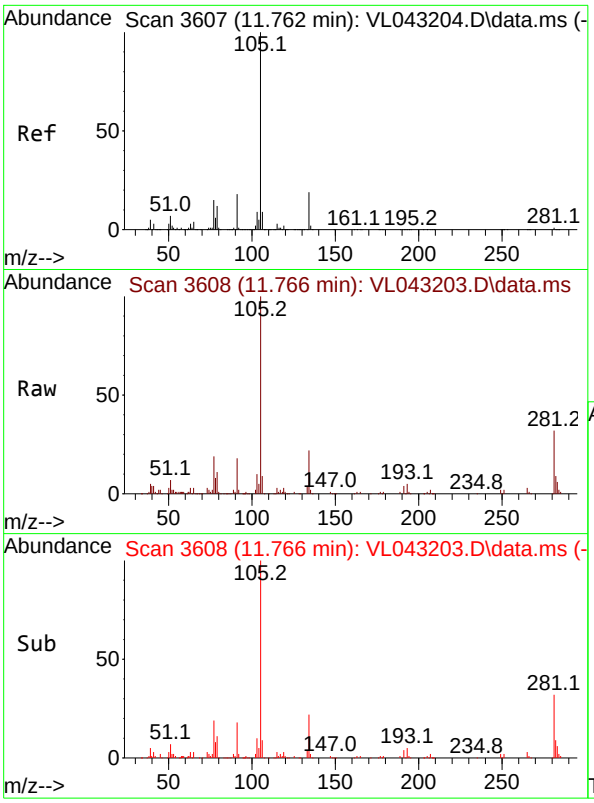


#66
Benzyl Chloride
Concen: 0.550 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



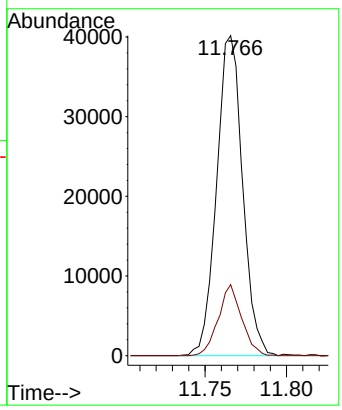


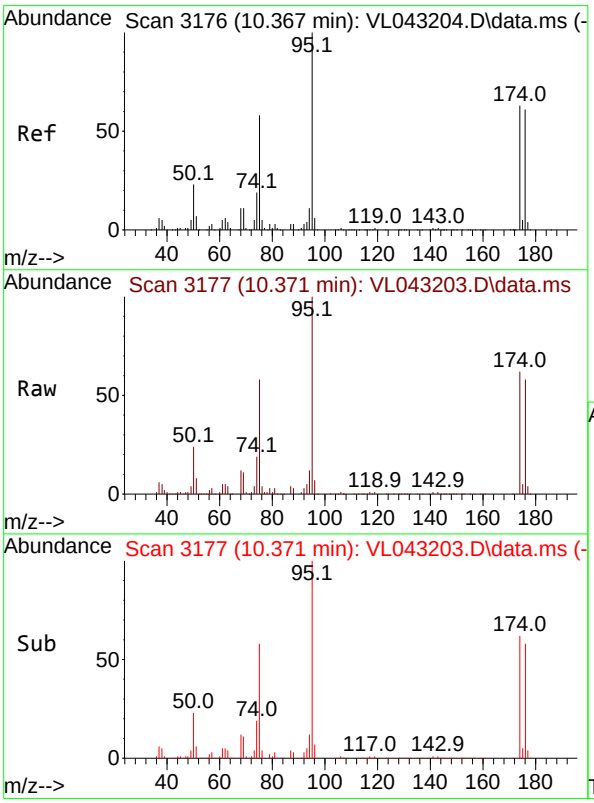
#67
sec-Butylbenzene
Concen: 0.522 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 44448

Ion	Ratio	Lower	Upper
105	100		
134	20.0	15.0	22.6

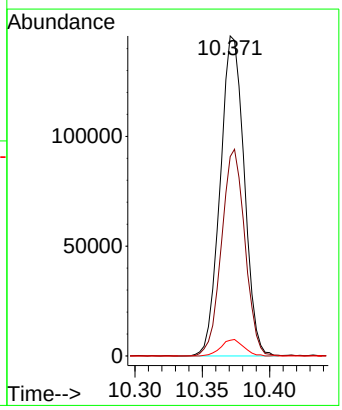


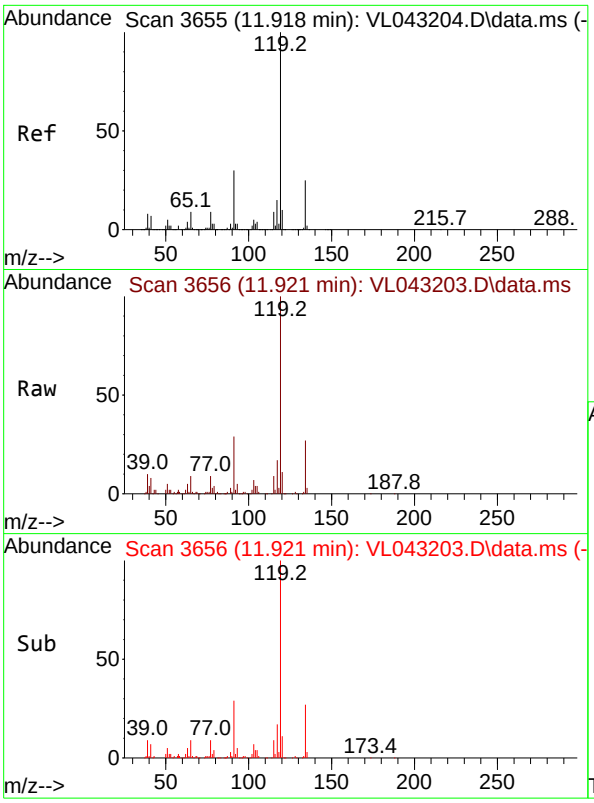


#68
1-Bromo-4-Fluorobenzene
Concen: 9.941 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



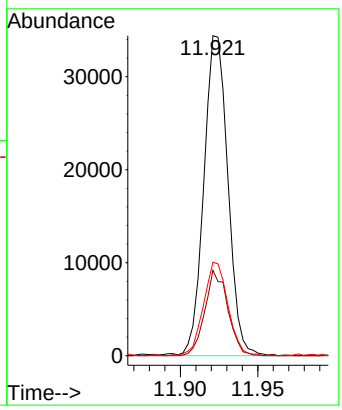


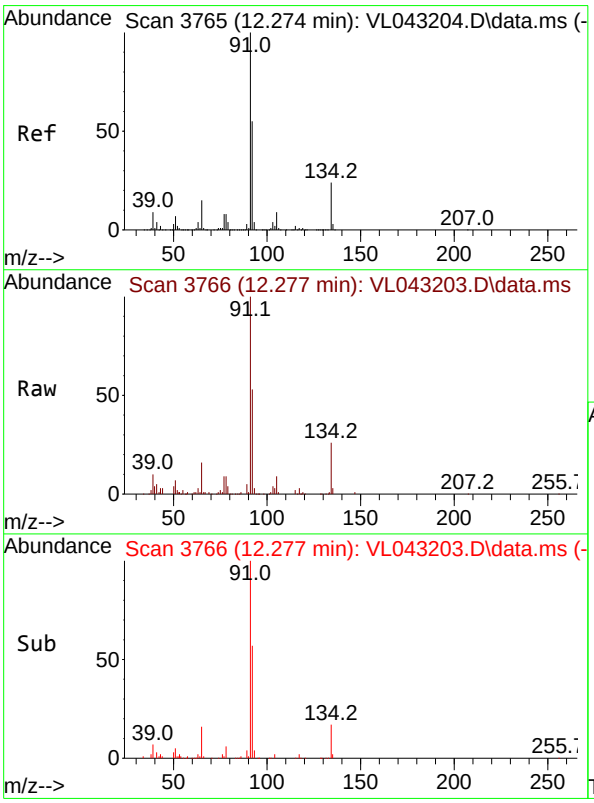
#69
p-Isopropyltoluene
Concen: 0.514 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

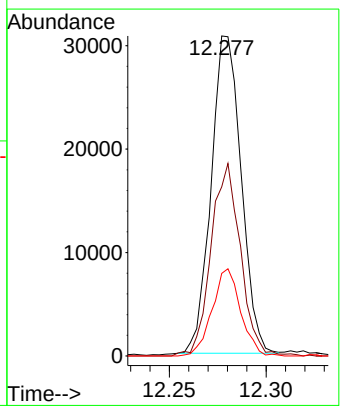


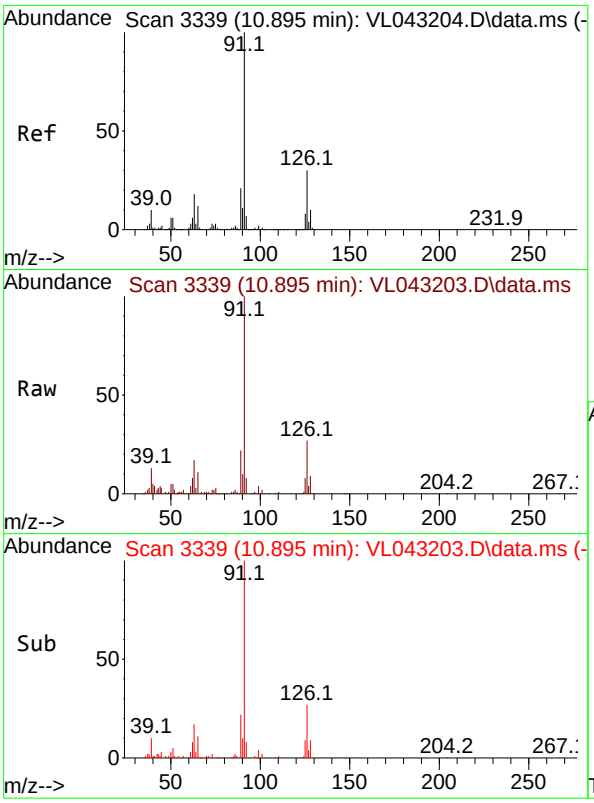


#70
n-Butylbenzene
Concen: 0.474 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



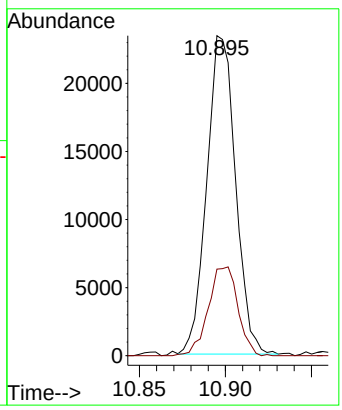


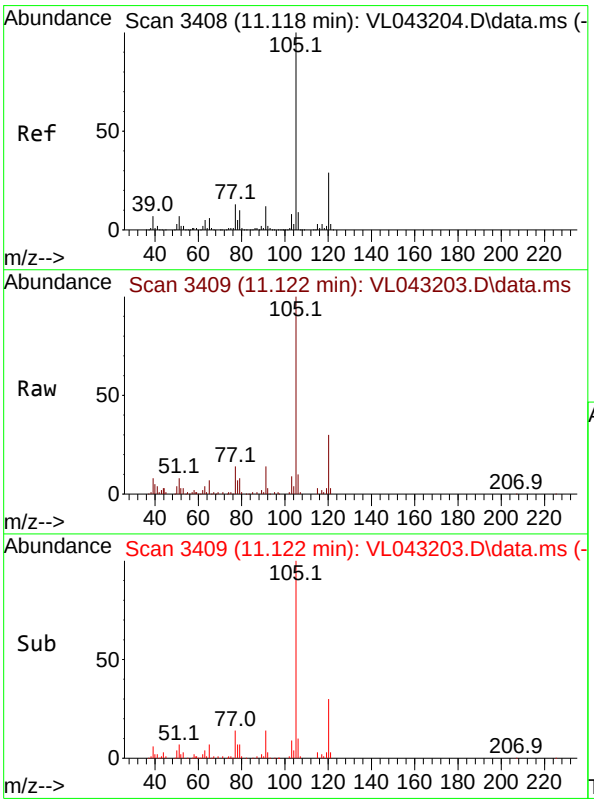
#71
2-Chlorotoluene
Concen: 0.518 ppbv
RT: 10.895 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 27224

Ion	Ratio	Lower	Upper
91	100		
126	28.6	11.7	46.7

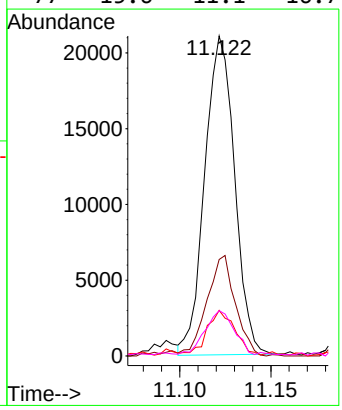


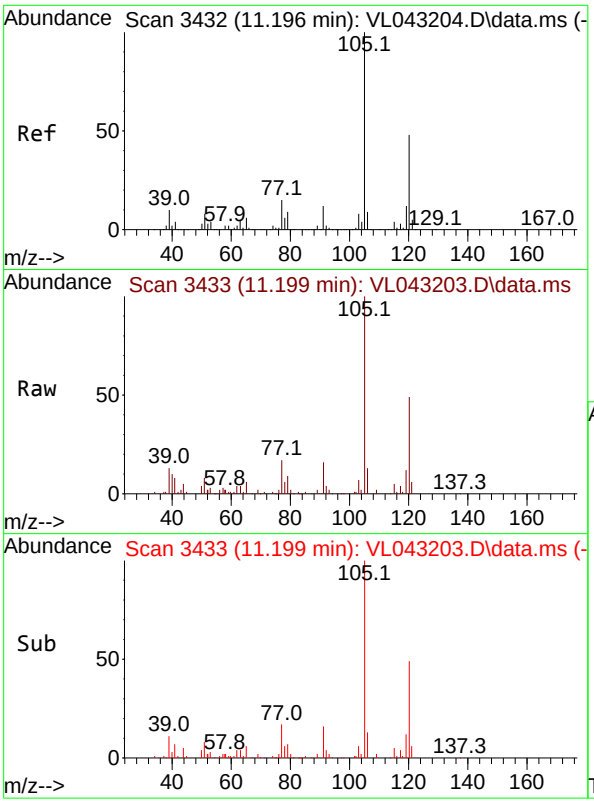


#72
4-Ethyltoluene
Concen: 0.515 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



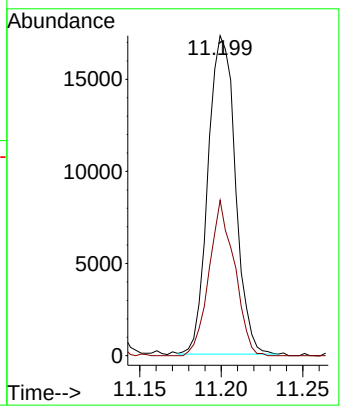


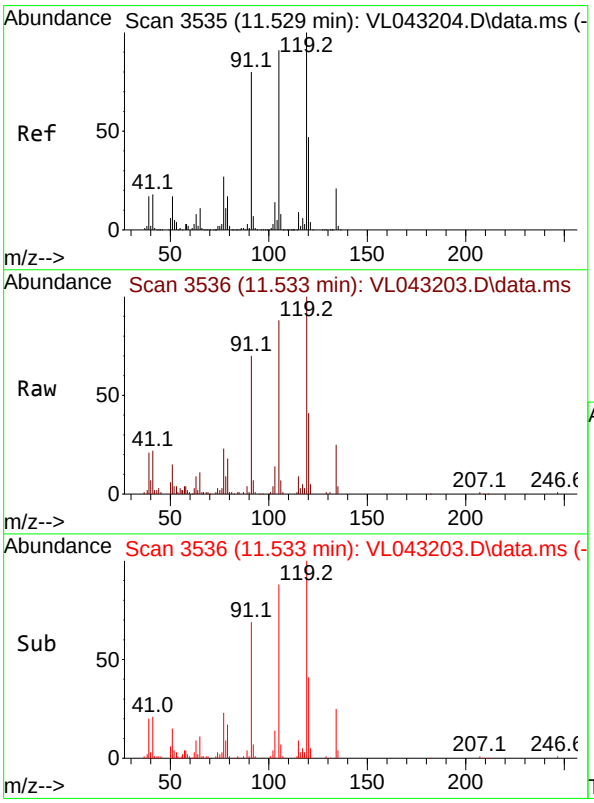
#73
1,3,5-Trimethylbenzene
Concen: 0.515 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 20104

Ion	Ratio	Lower	Upper
105	100		
120	48.8	38.6	57.8

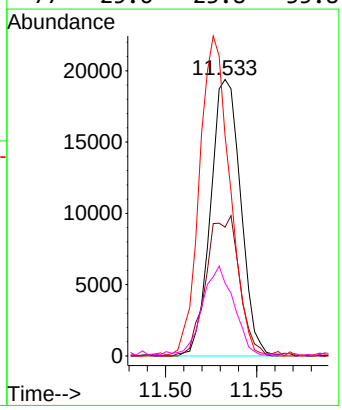


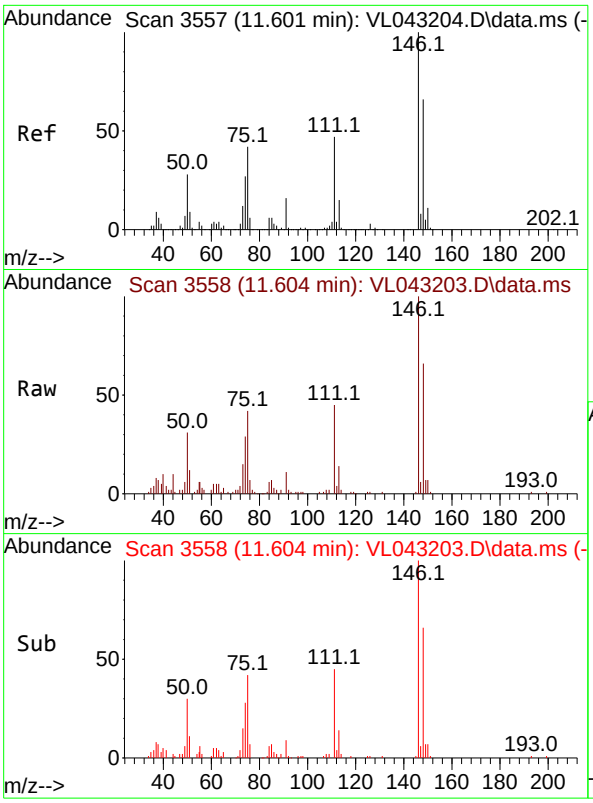


#74
1,2,4-Trimethylbenzene
Concen: 0.522 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



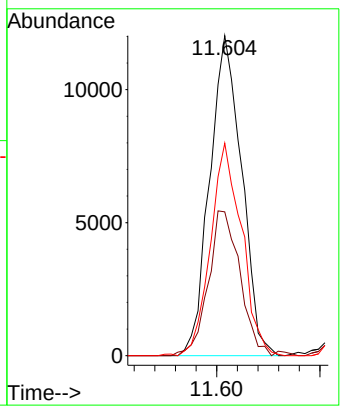


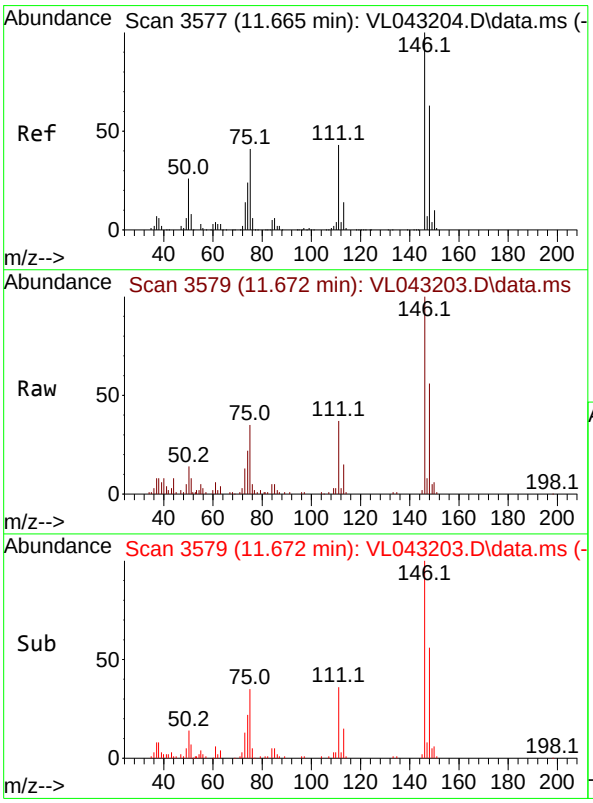
#75
1,3-Dichlorobenzene
Concen: 0.520 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

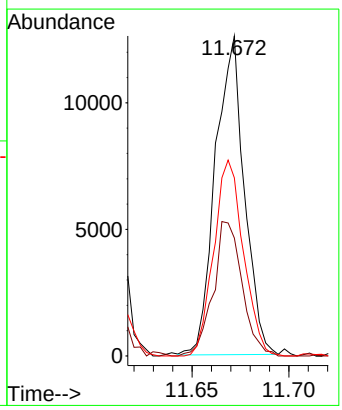


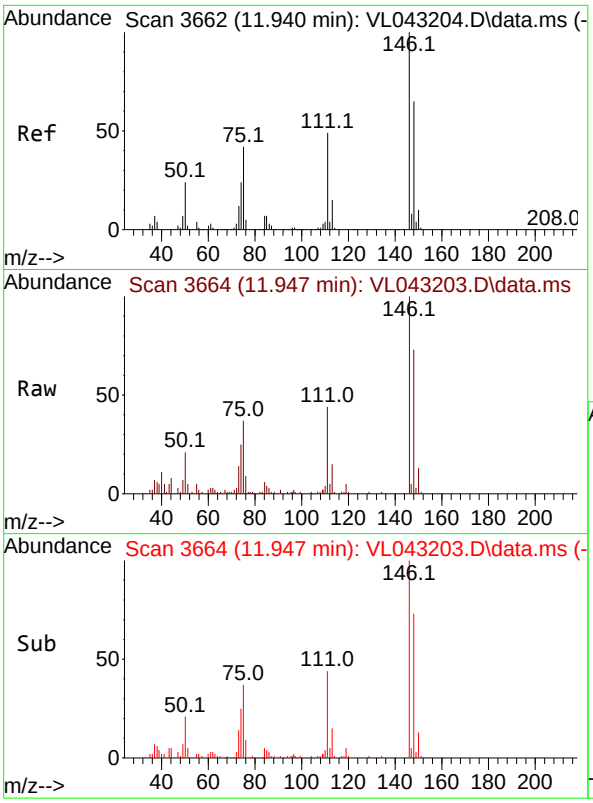


#76
1,4-Dichlorobenzene
Concen: 0.526 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



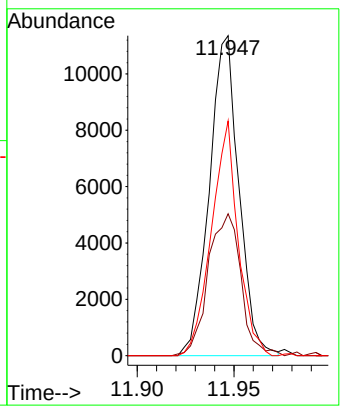


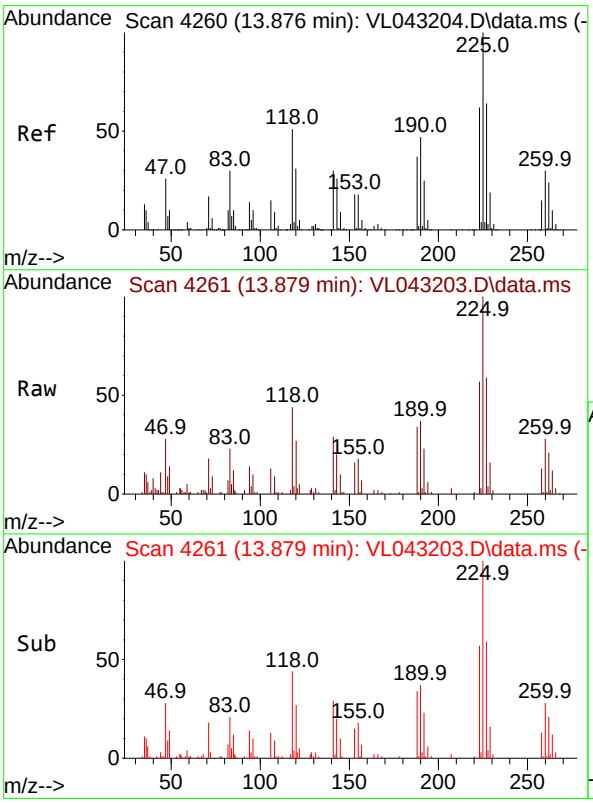
#77
1,2-Dichlorobenzene
Concen: 0.505 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

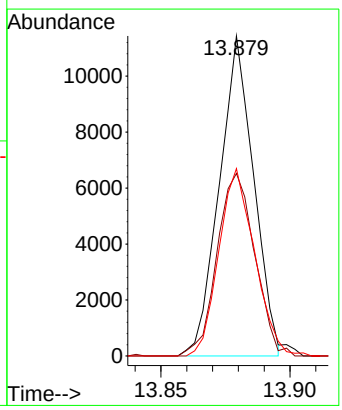


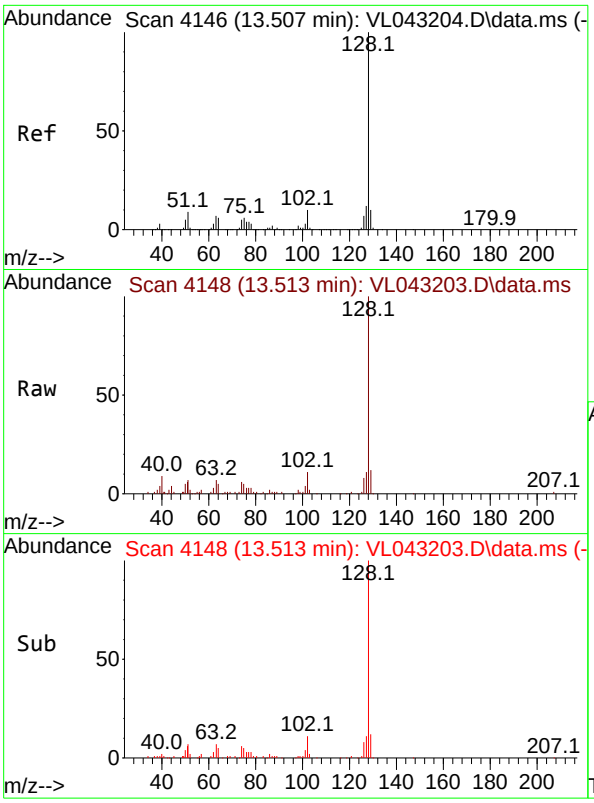


#78
Hexachloro-1,3-Butadiene
Concen: 0.530 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



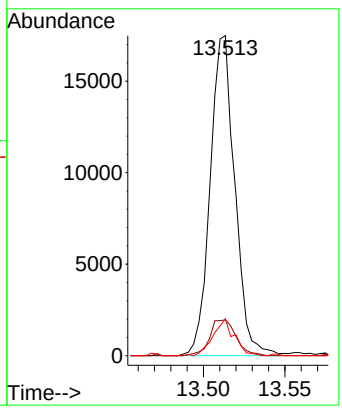


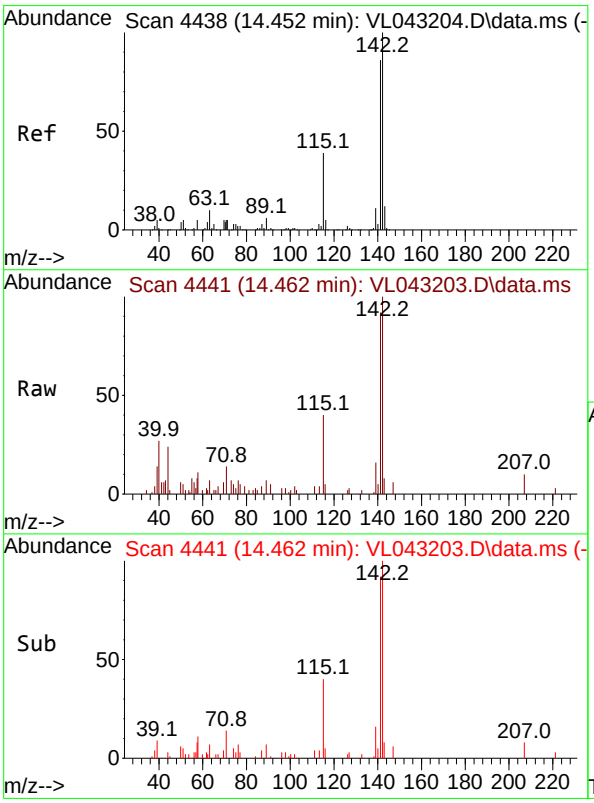
#79
Naphthalene
Concen: 0.486 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

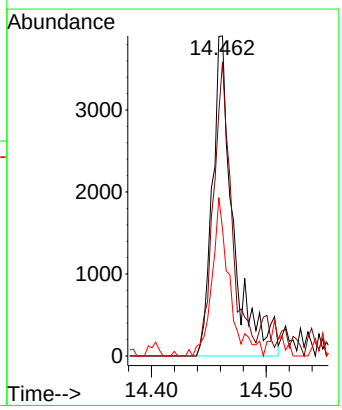


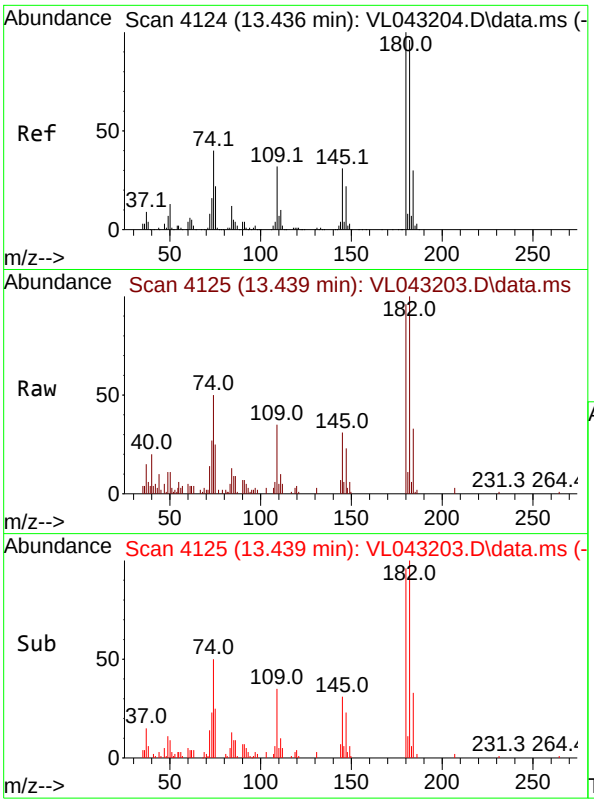


#80
Naphthalene,2-methyl-
Concen: 0.495 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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



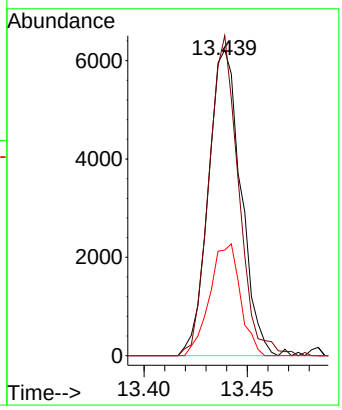


#81
1,2,4-Trichlorobenzene
Concen: 0.402 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

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

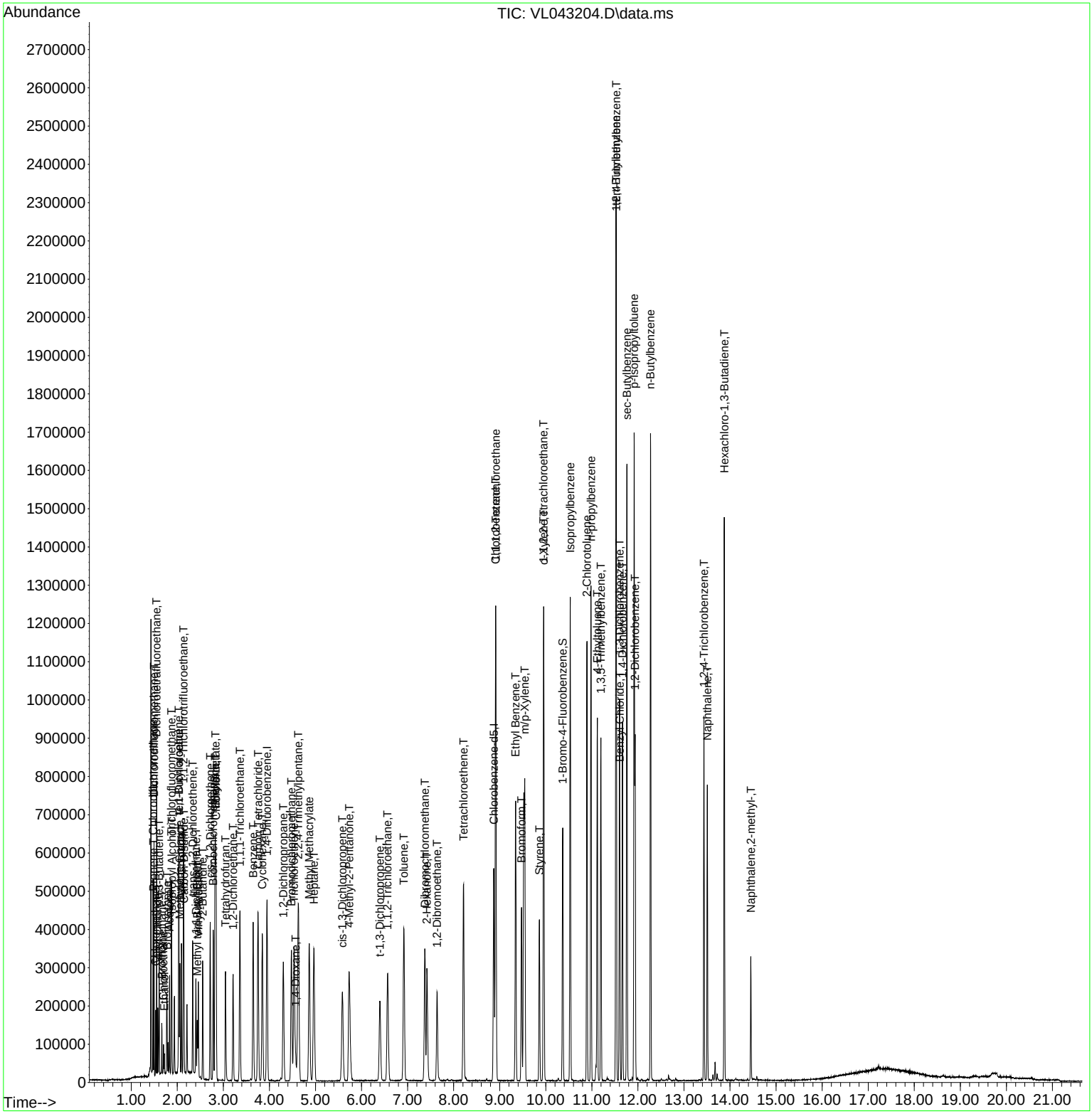
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.584	75	151655	9.603	ppbv		100
47)	1,1,2-Trichloroethane	6.564	97	97512	9.193	ppbv		100
48)	Dibromochloromethane	7.377	129	175529	9.670	ppbv		100
49)	Bromoform	9.474	173	157563	9.800	ppbv		100
50)	4-Methyl-2-Pentanone	5.733	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

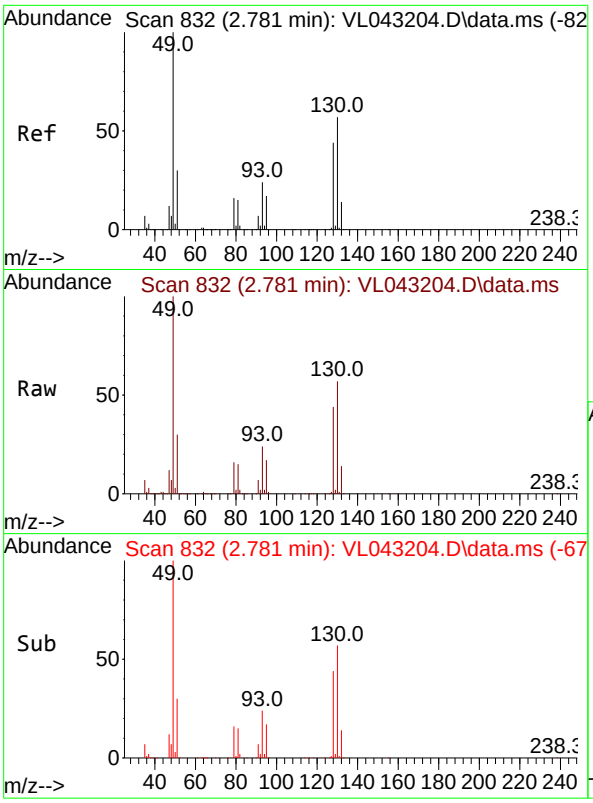
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



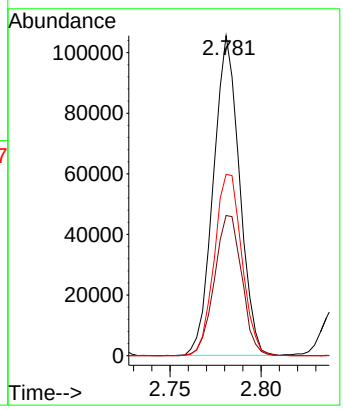


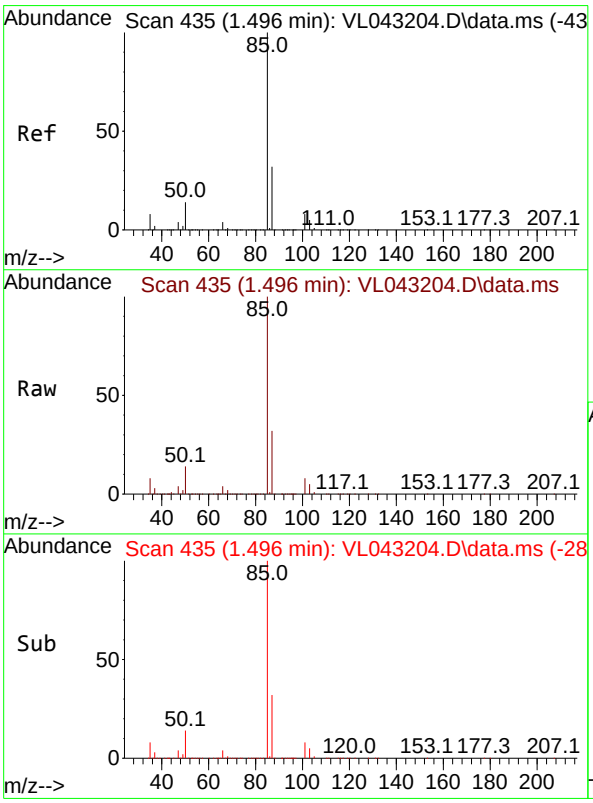
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

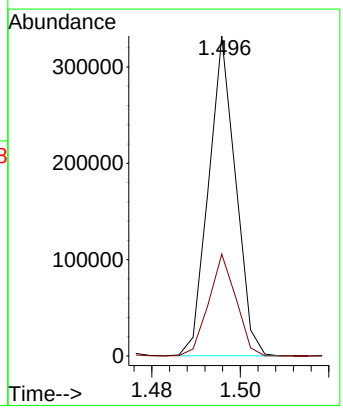


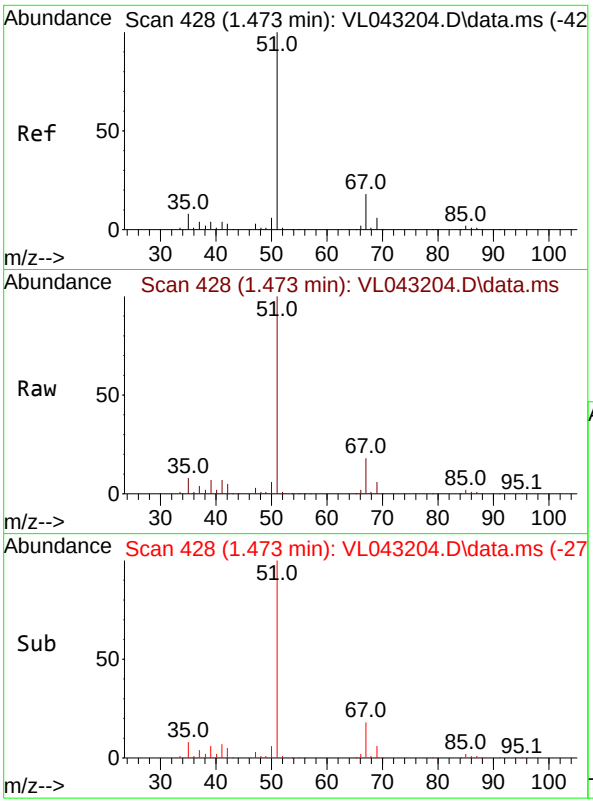


#2
Dichlorodifluoromethane
Concen: 9.498 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 85 Resp: 140789

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.4	38.2



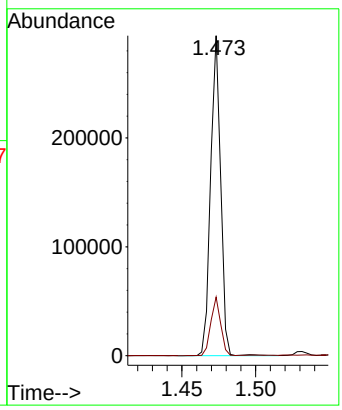


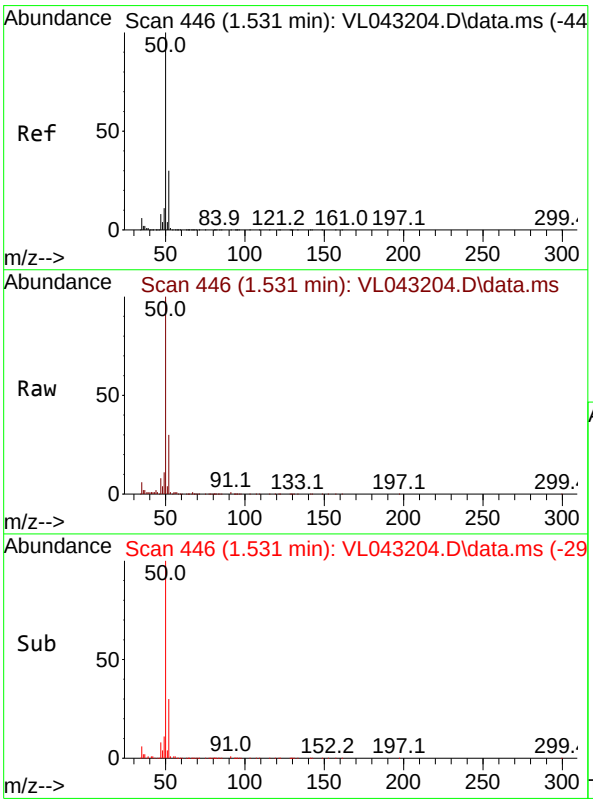
#3
Chlorodifluoromethane
Concen: 9.497 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 138443

Ion	Ratio	Lower	Upper
51	100		
67	18.6	14.9	22.3

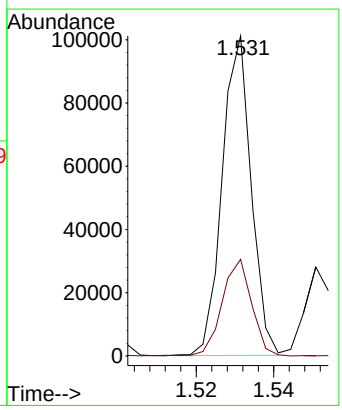


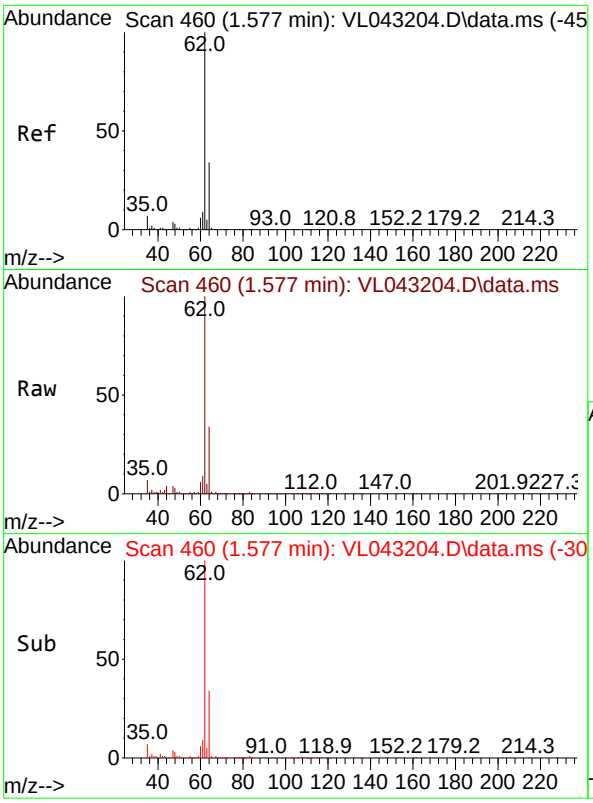


#4
Chloromethane
Concen: 9.450 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 50 Resp: 52372

Ion	Ratio	Lower	Upper
50	100		
52	30.1	24.1	36.1



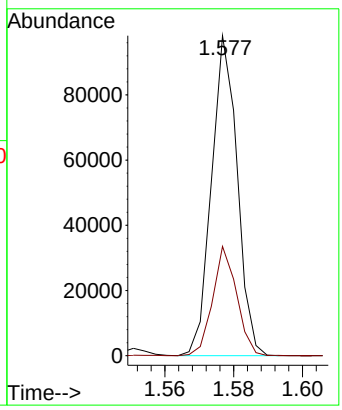


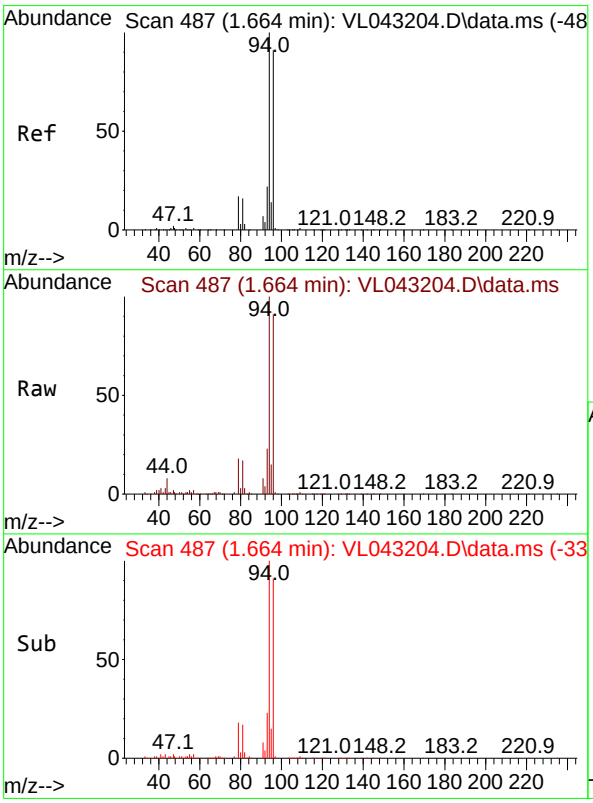
#5
Vinyl Chloride
Concen: 8.422 ppbv
RT: 1.577 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 51045

Ion	Ratio	Lower	Upper
62	100		
64	34.1	27.3	40.9

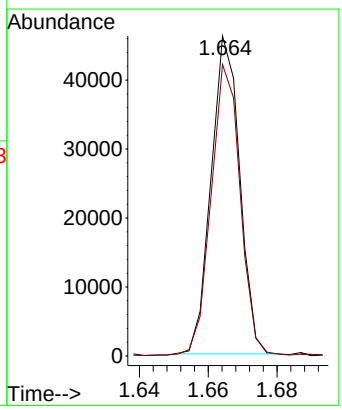


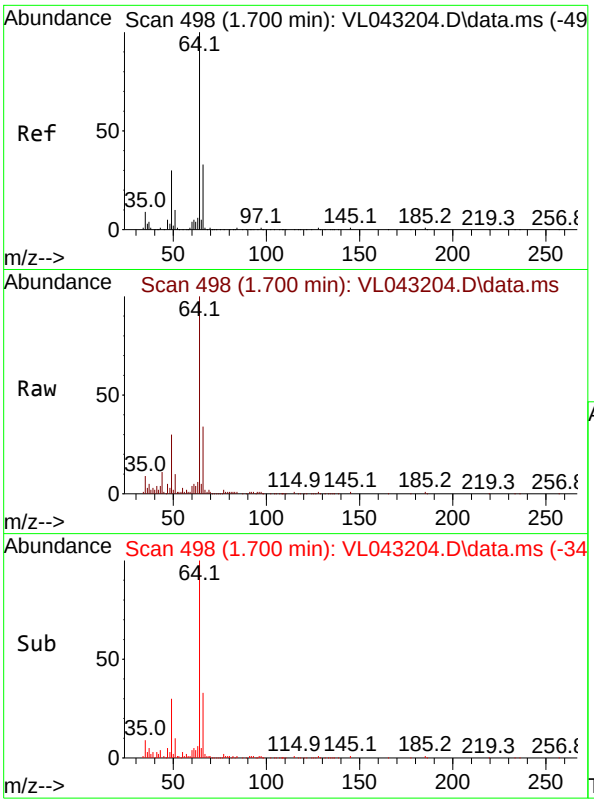


#6
Bromomethane
Concen: 9.034 ppbv
RT: 1.664 min Scan# 487
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 94 Resp: 26542

Ion	Ratio	Lower	Upper
94	100		
96	91.1	72.9	109.3



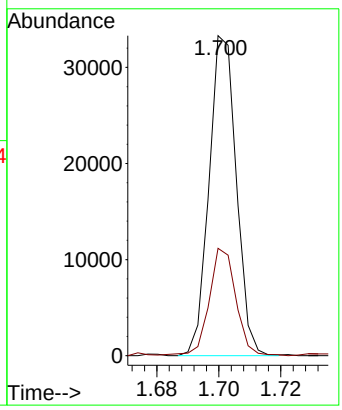


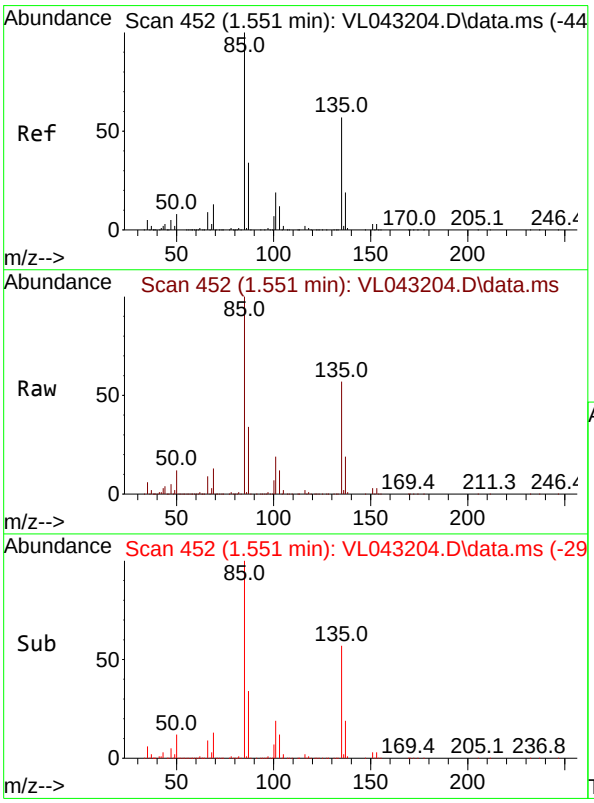
#7
Chloroethane
Concen: 8.632 ppbv
RT: 1.700 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 20375

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.8	40.2

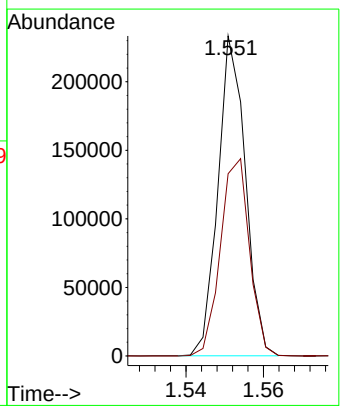


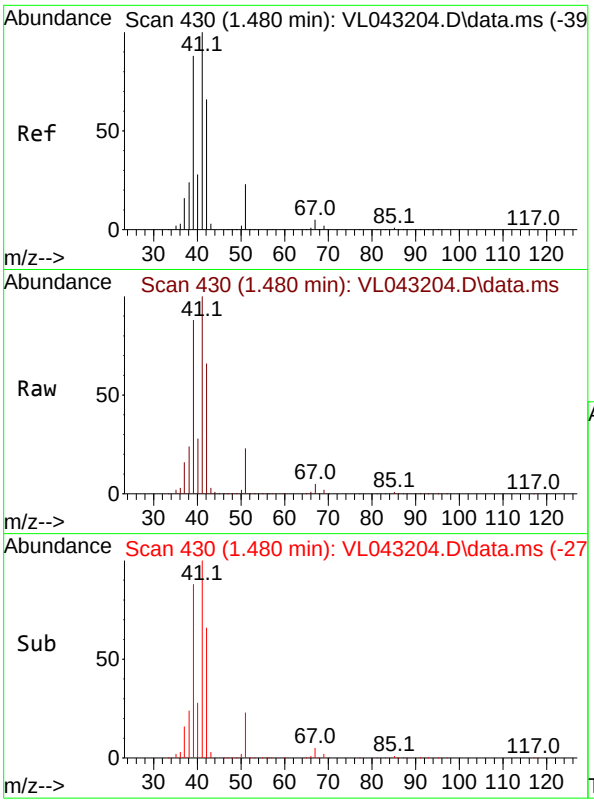


#8
Dichlorotetrafluoroethane
Concen: 9.300 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 85 Resp: 114670

Ion	Ratio	Lower	Upper
85	100		
135	65.8	52.6	79.0



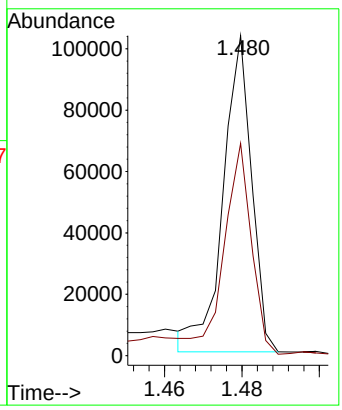


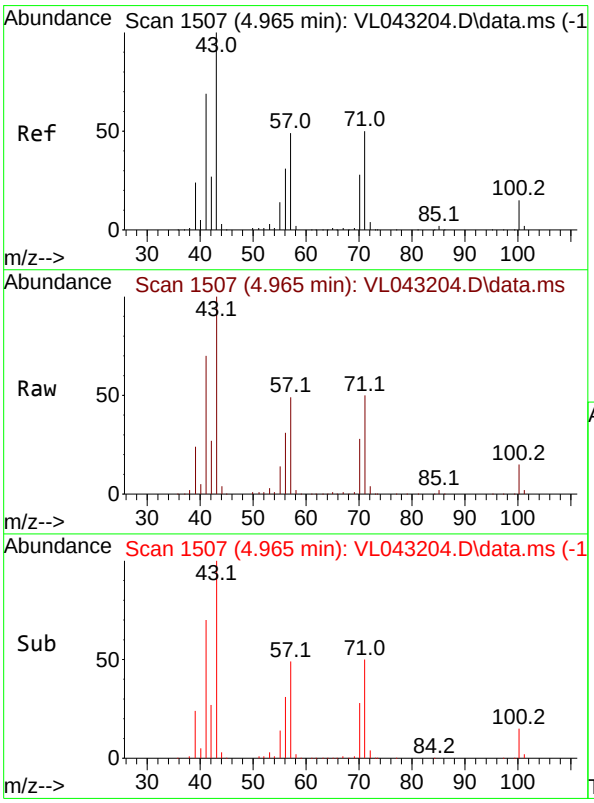
#9
Propene
Concen: 7.789 ppbv
RT: 1.480 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 52671

Ion	Ratio	Lower	Upper
41	100		
42	105.2	3.7	5.5#

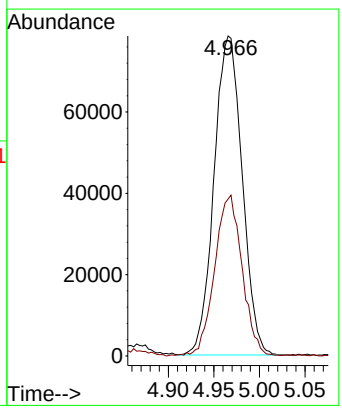


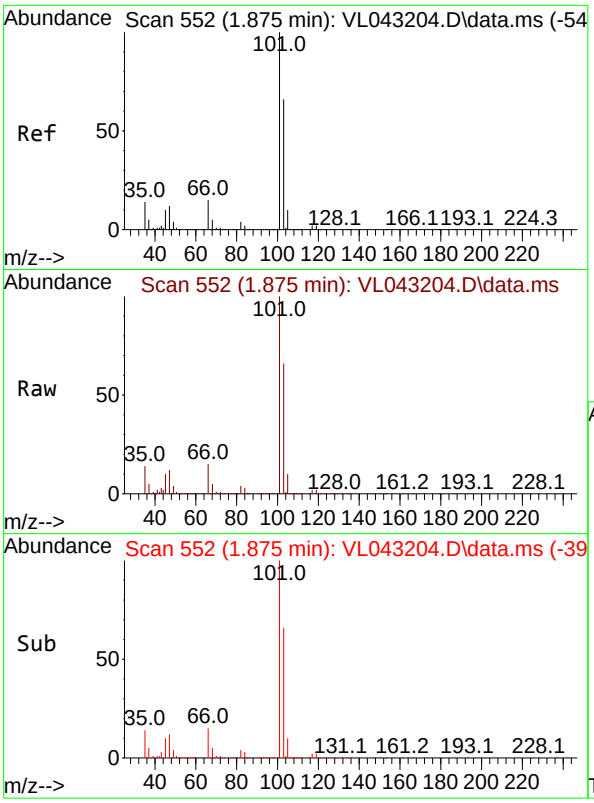


#10
Heptane
Concen: 9.090 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 168611

Ion	Ratio	Lower	Upper
43	100		
57	49.6	39.7	59.5



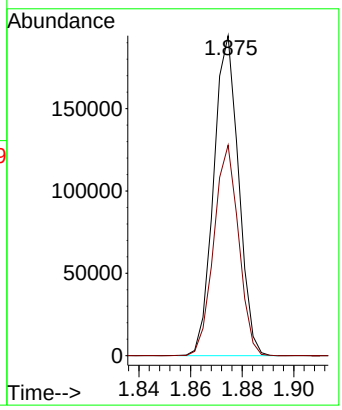


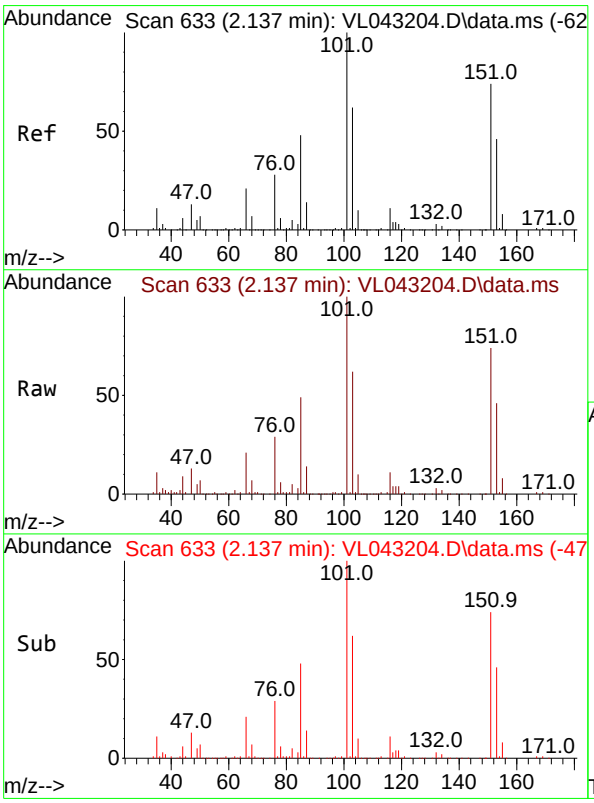
#11
Trichlorofluoromethane
Concen: 9.077 ppbv
RT: 1.875 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 130362

Ion	Ratio	Lower	Upper
101	100		
103	65.8	52.6	79.0

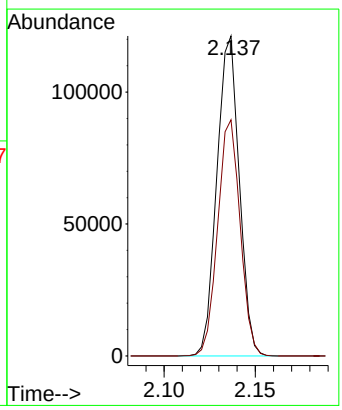


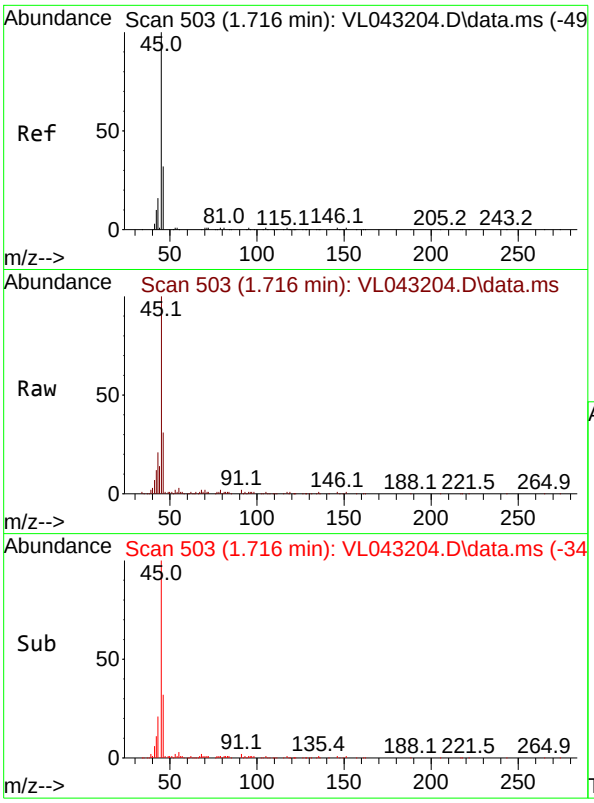


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.247 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:101 Resp: 103679

Ion	Ratio	Lower	Upper
101	100		
151	74.0	59.2	88.8



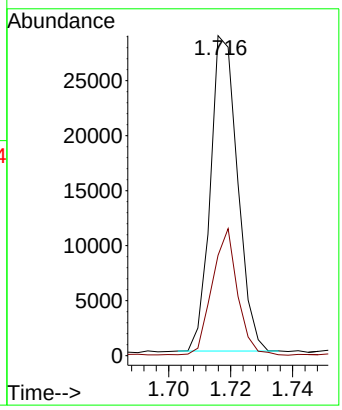


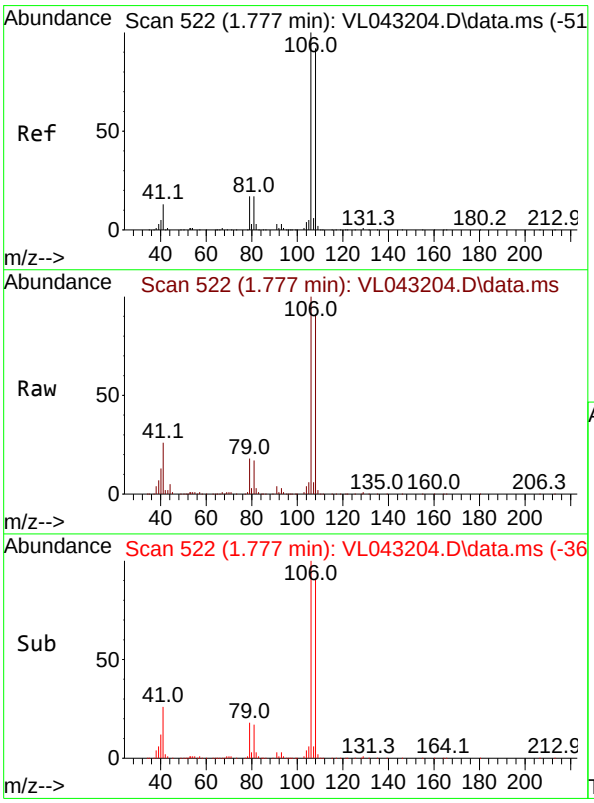
#13
Ethanol
Concen: 8.023 ppbv
RT: 1.716 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 17464

Ion	Ratio	Lower	Upper
45	100		
46	37.4	15.0	59.8

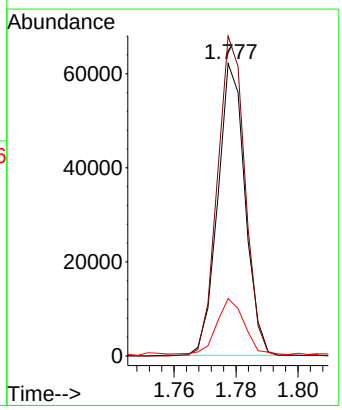


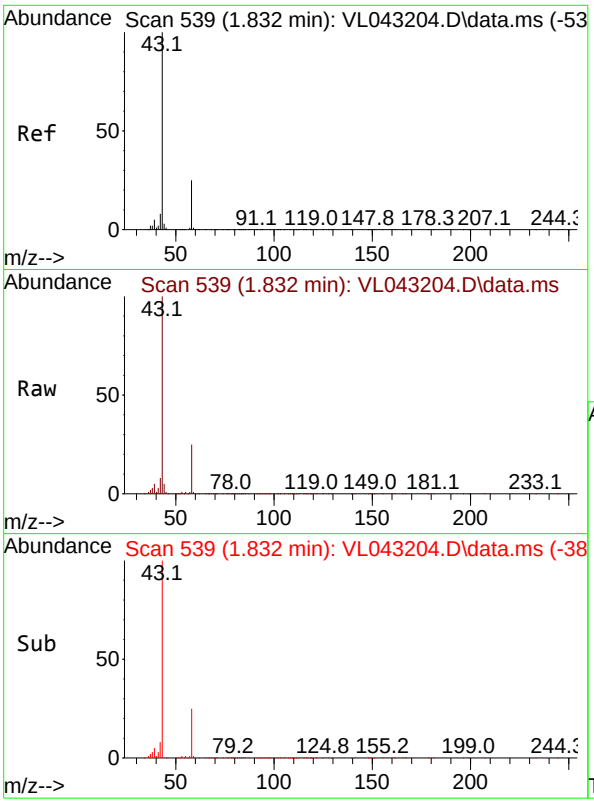


#14
Bromoethene
Concen: 8.849 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



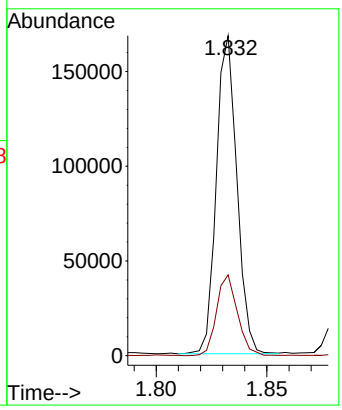


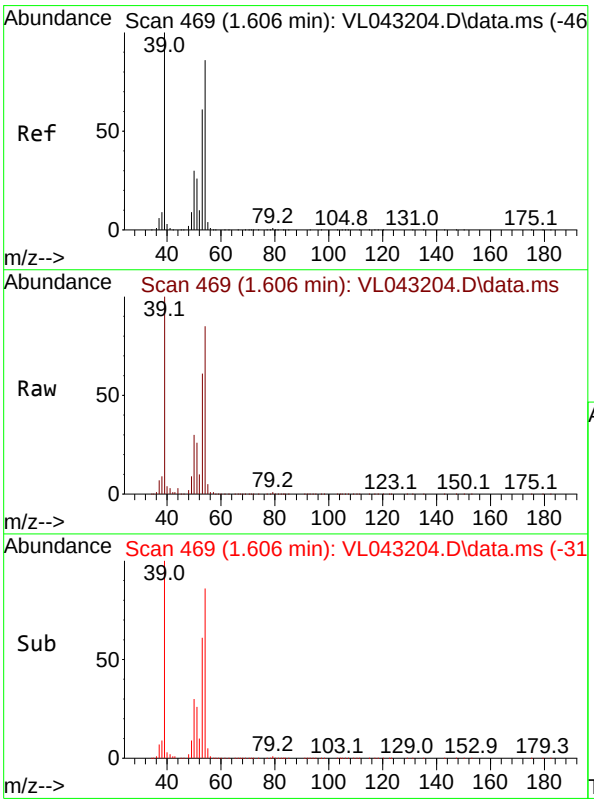
#15
Acetone
Concen: 7.426 ppbv
RT: 1.832 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 108422

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1

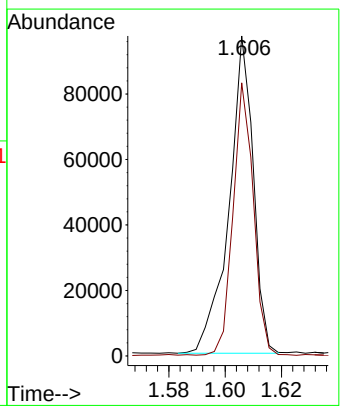


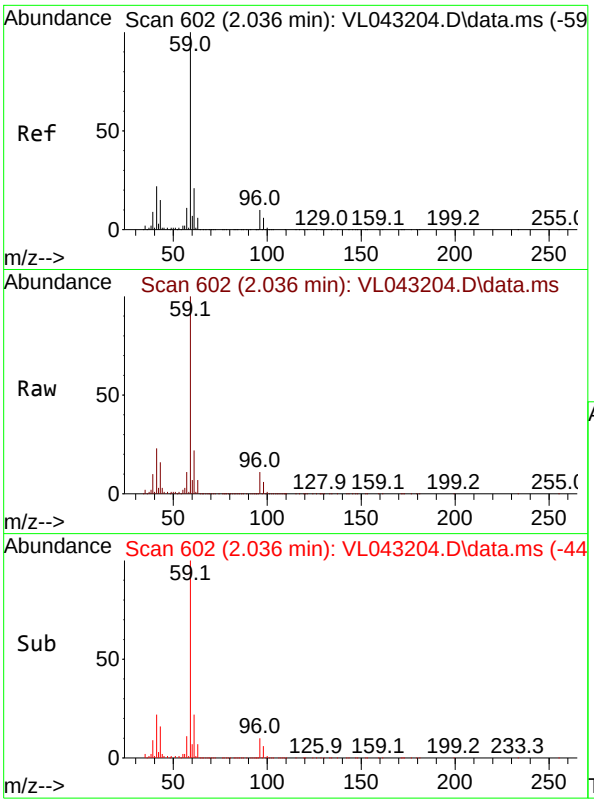


#16
1,3-Butadiene
Concen: 8.890 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 39 Resp: 57871

Ion	Ratio	Lower	Upper
39	100		
54	74.3	59.4	89.2



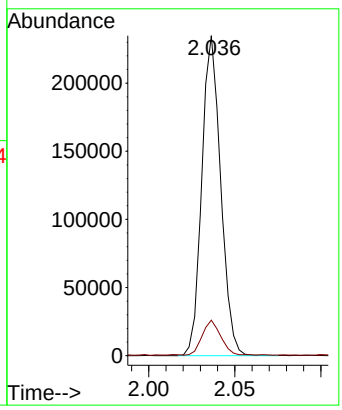


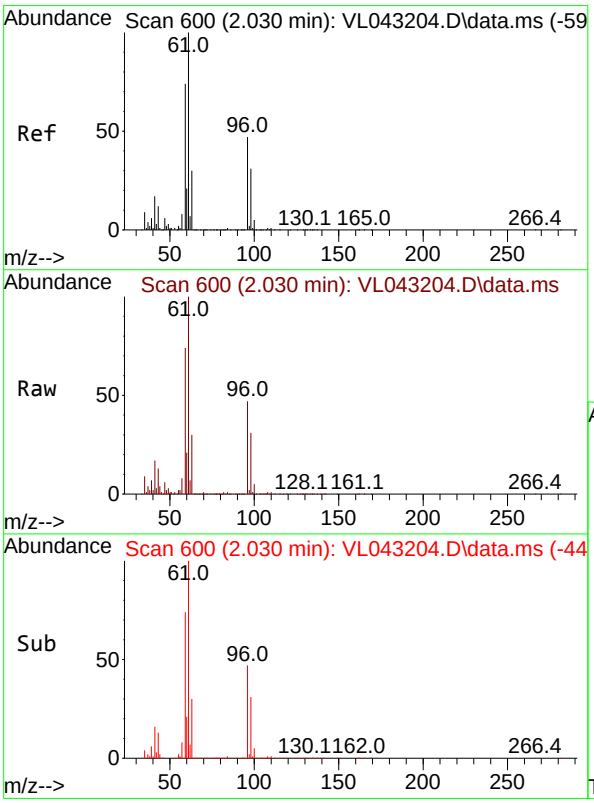
#17
tert-Butyl alcohol
Concen: 9.350 ppbv
RT: 2.036 min Scan# 6(
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 179201

Ion	Ratio	Lower	Upper
59	100		
57	11.2	9.0	13.4

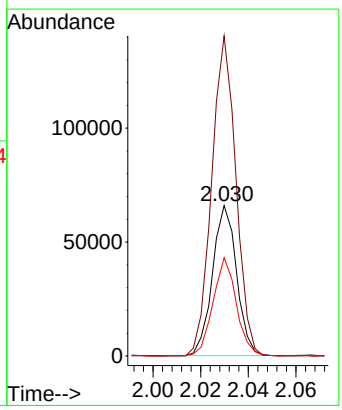


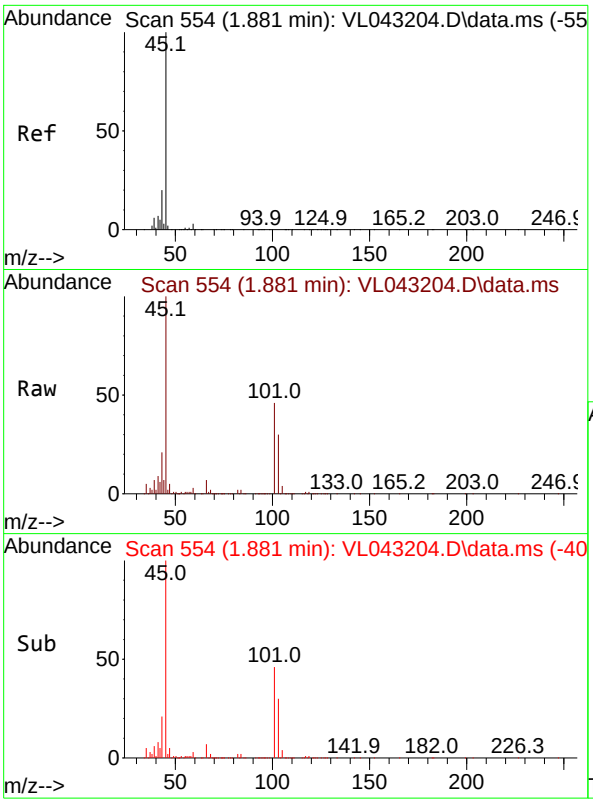


#18
1,1-Dichloroethene
Concen: 8.871 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



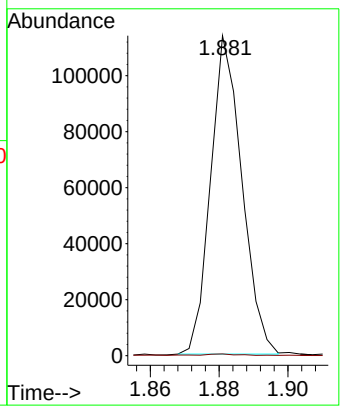


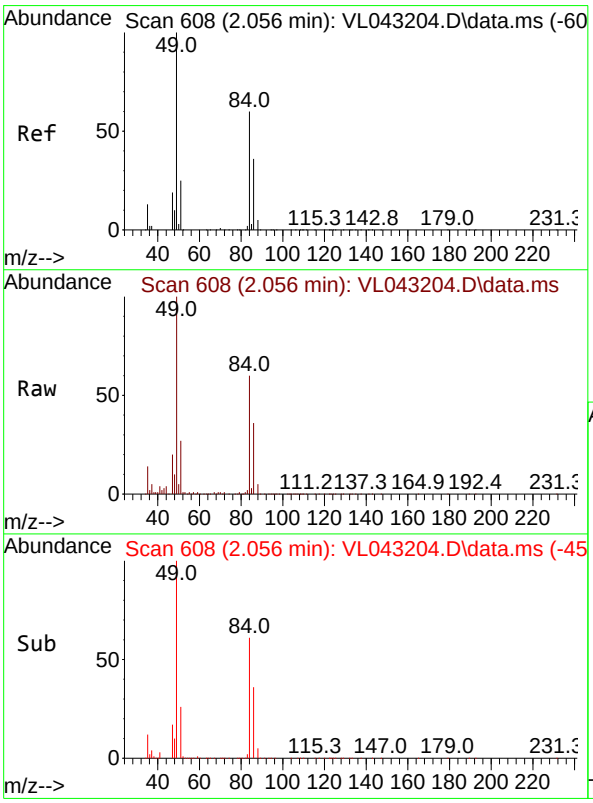
#19
Isopropyl Alcohol
Concen: 8.710 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 71862

Ion	Ratio	Lower	Upper
45	100		
58	39.1	31.3	46.9

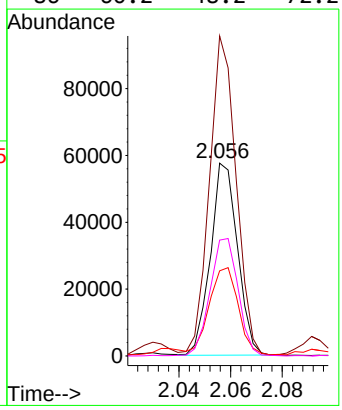


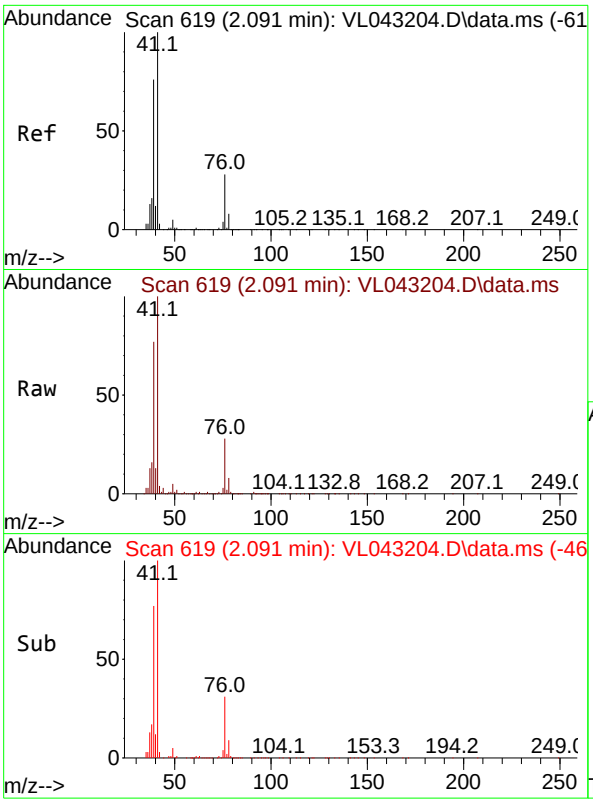


#20
Methylene Chloride
Concen: 9.708 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



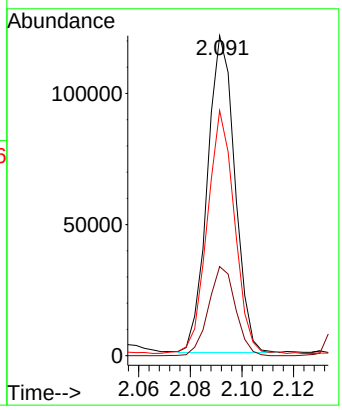


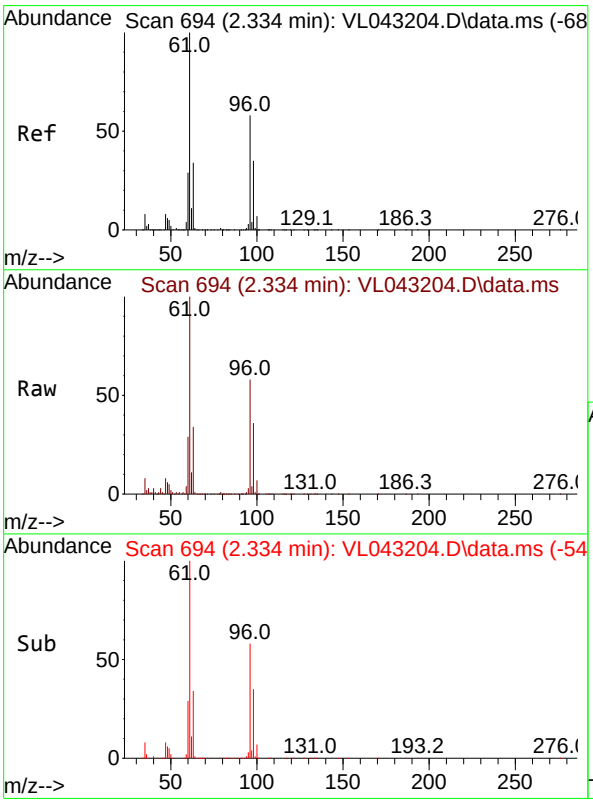
#21
Allyl Chloride
Concen: 9.087 ppbv
RT: 2.091 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

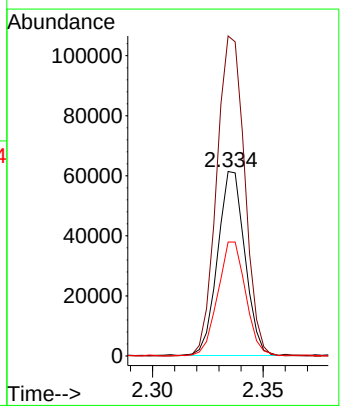


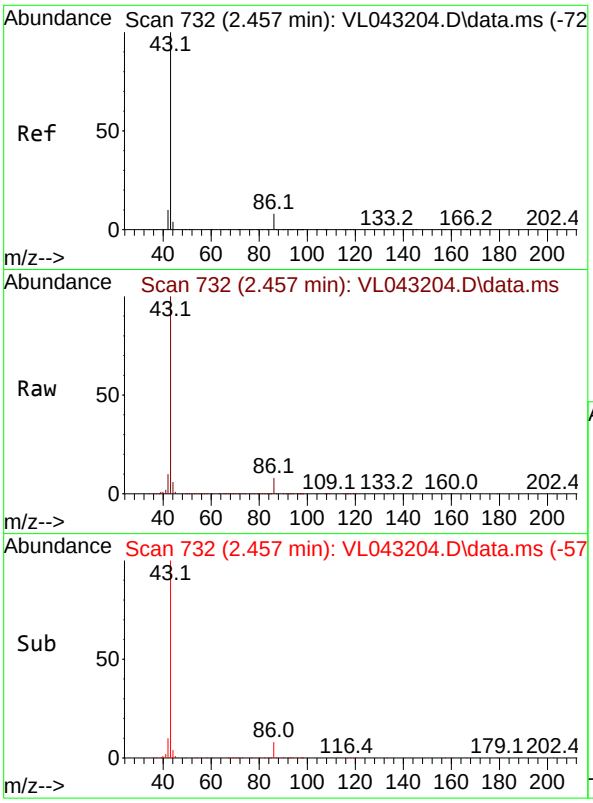


#22
trans-1,2-Dichloroethene
Concen: 8.793 ppbv
RT: 2.334 min Scan# 694
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



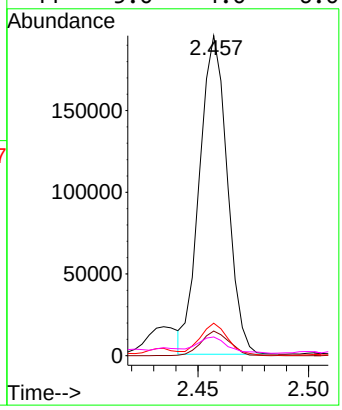


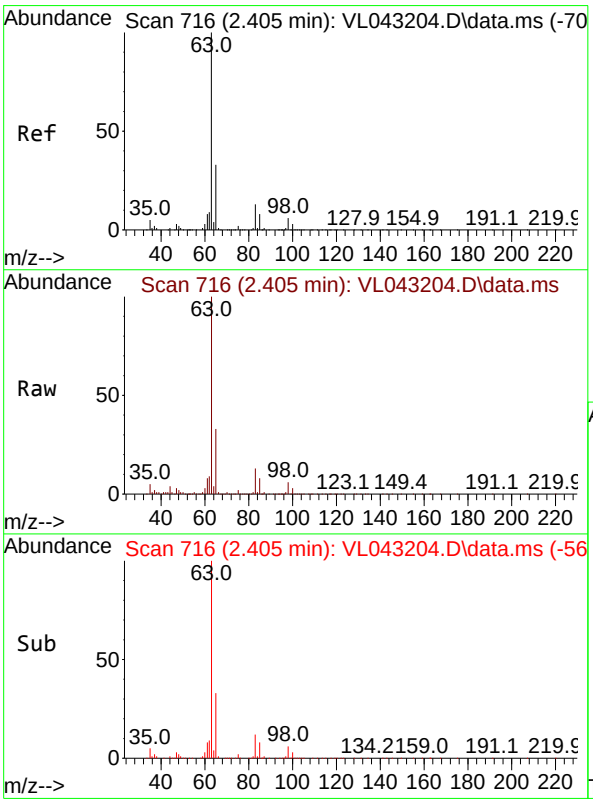
#23
Vinyl Acetate
Concen: 9.670 ppbv
RT: 2.457 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

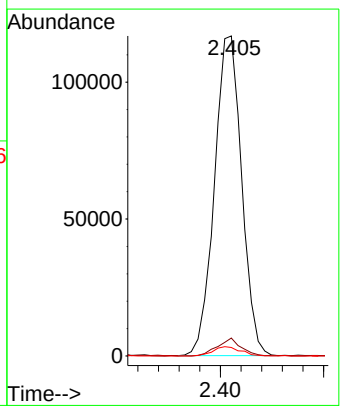


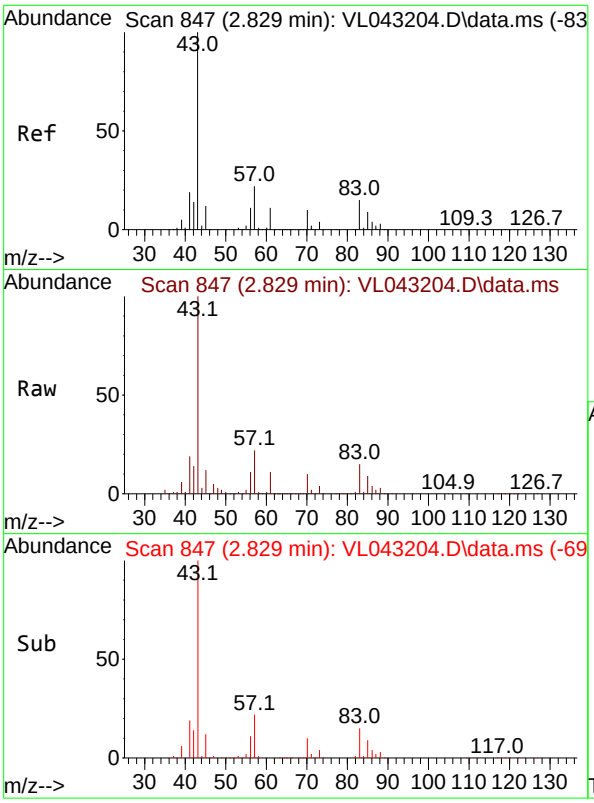


#24
1,1-Dichloroethane
Concen: 9.287 ppbv
RT: 2.405 min Scan# 716
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



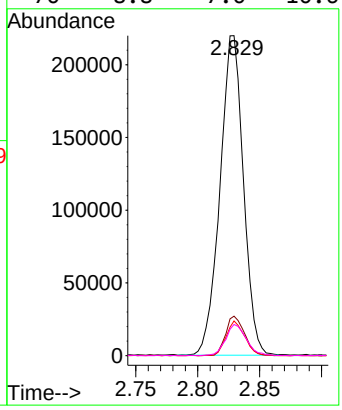


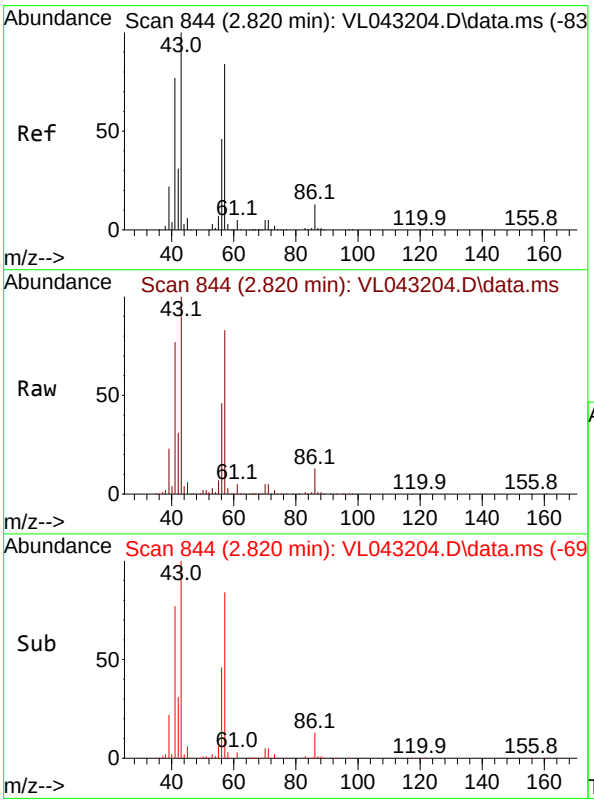
#25
Ethyl Acetate
Concen: 9.190 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

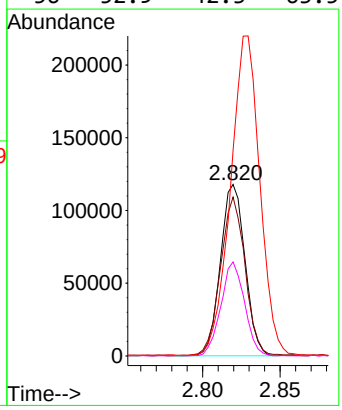


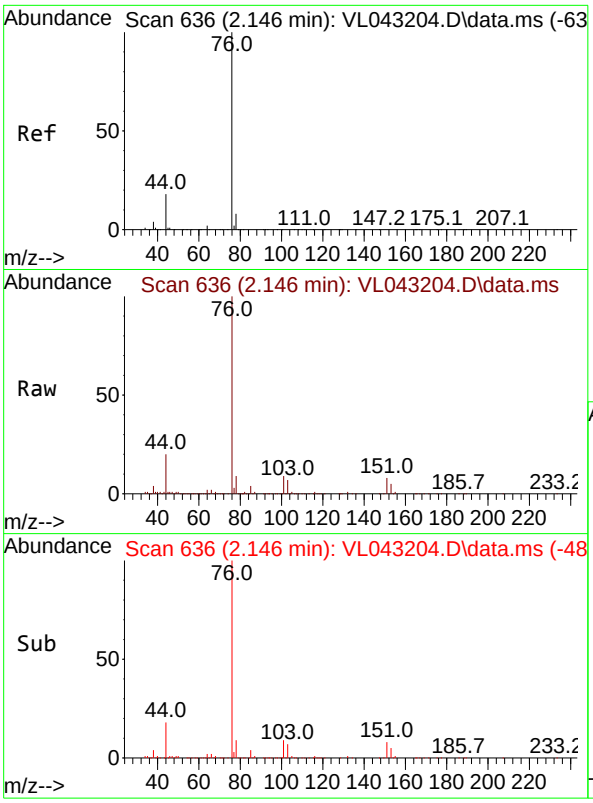


#26
Hexane
Concen: 9.402 ppbv
RT: 2.820 min Scan# 844
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



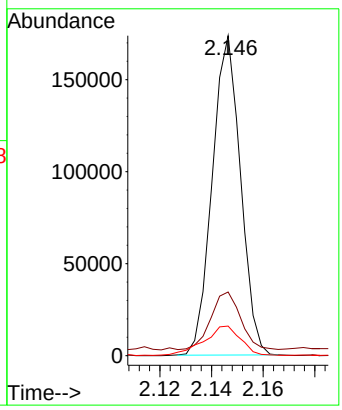


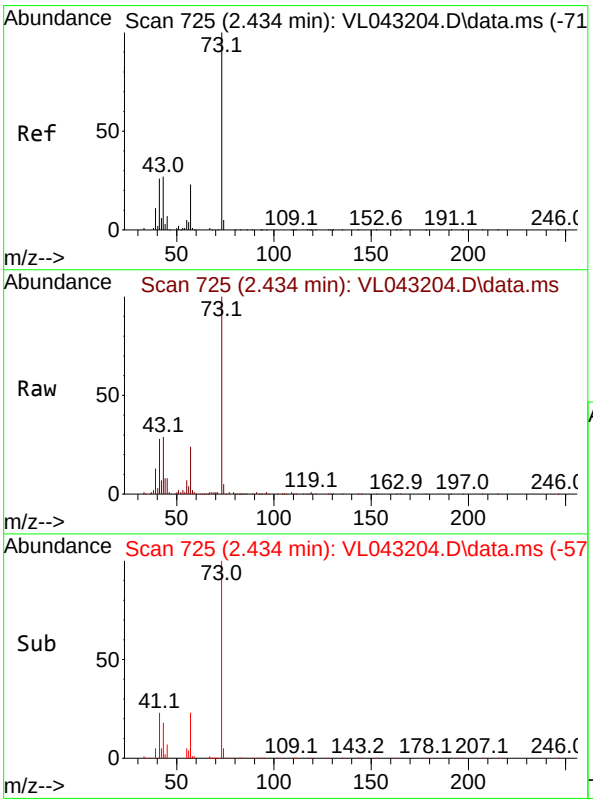
#27
Carbon Disulfide
Concen: 9.371 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

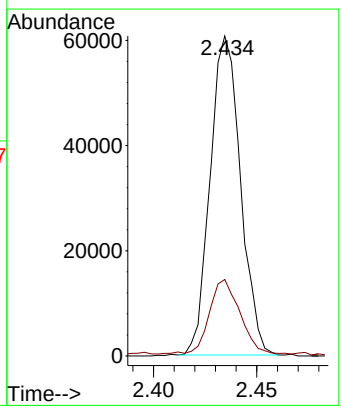


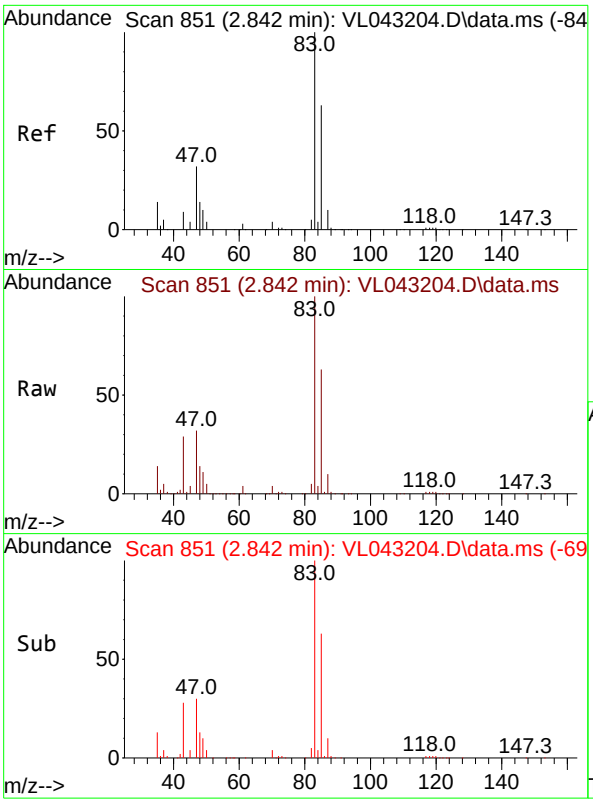


#28
Methyl tert-Butyl Ether
Concen: 9.165 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 73 Resp: 62115

Ion	Ratio	Lower	Upper
73	100		
57	24.8	19.8	29.8



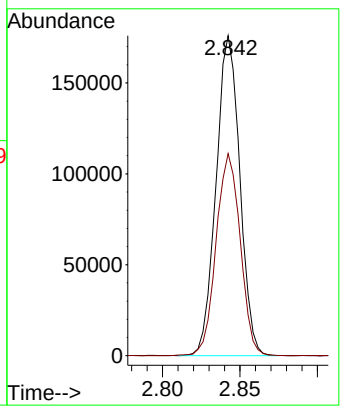


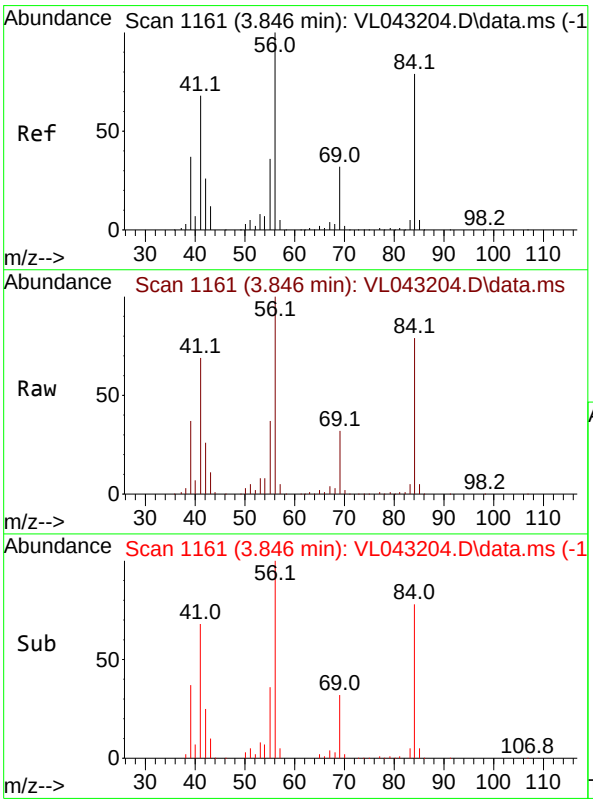
#29
Chloroform
Concen: 9.561 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 187620

Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.5	75.7

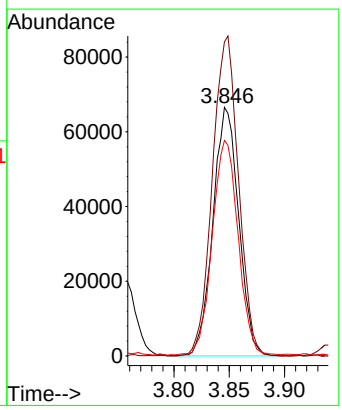


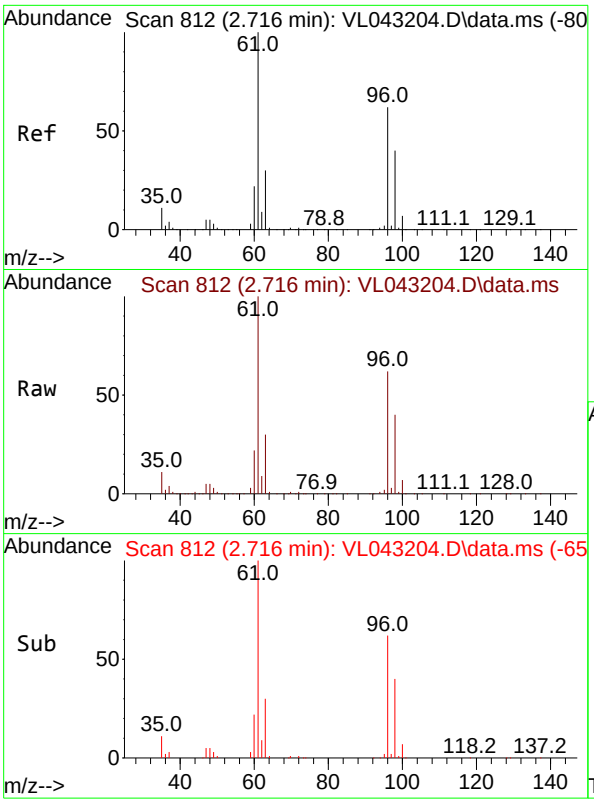


#30
Cyclohexane
Concen: 9.297 ppbv
RT: 3.846 min Scan# 1161
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



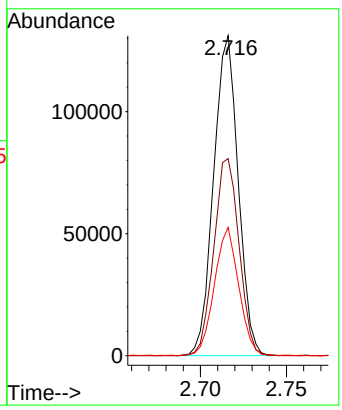


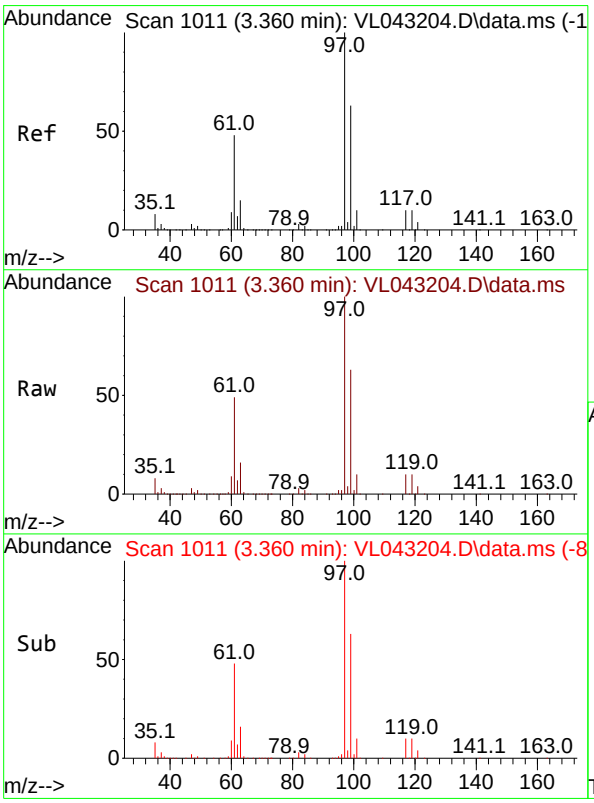
#31
cis-1,2-Dichloroethene
Concen: 9.499 ppbv
RT: 2.716 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

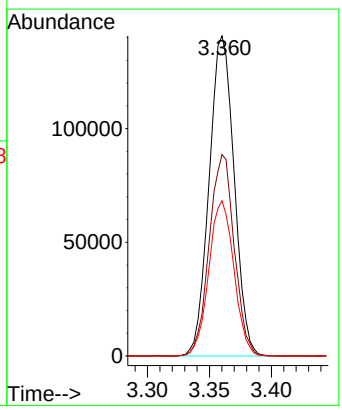


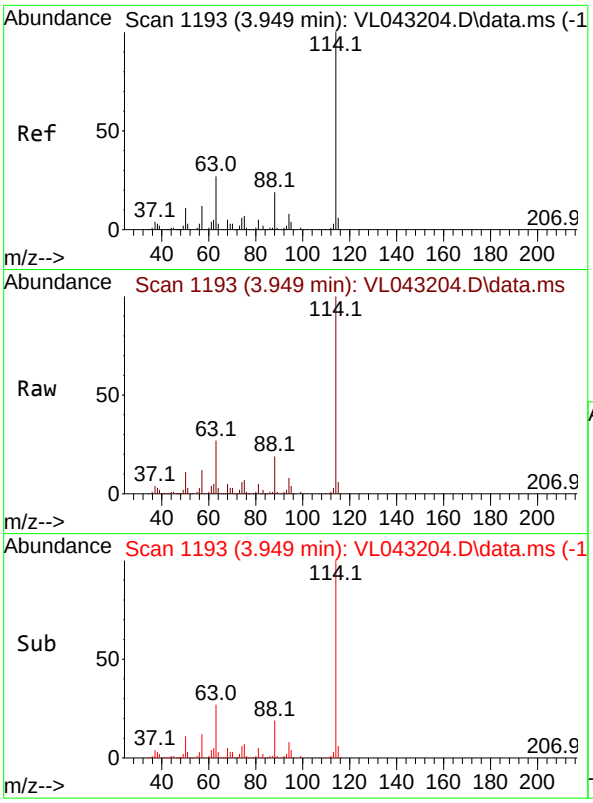


#32
1,1,1-Trichloroethane
Concen: 9.381 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



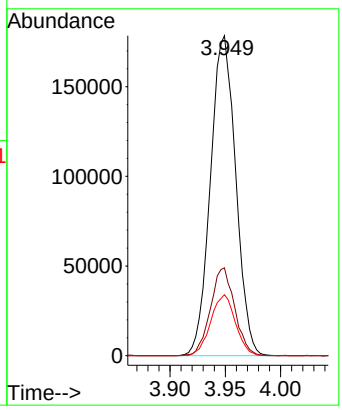


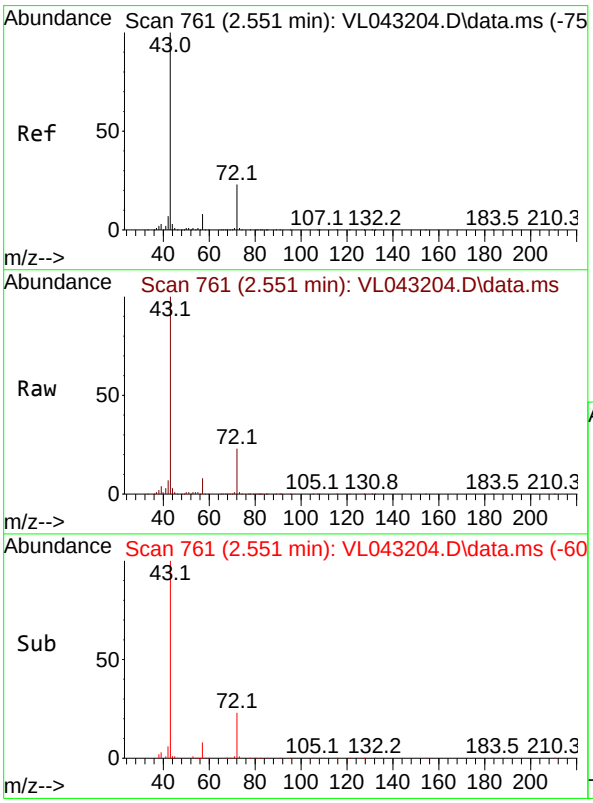
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

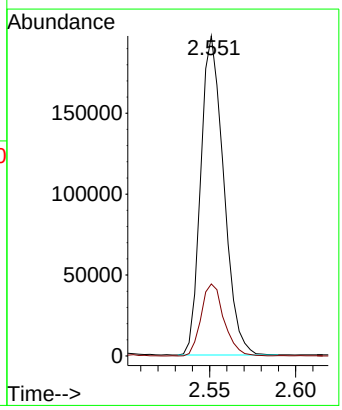


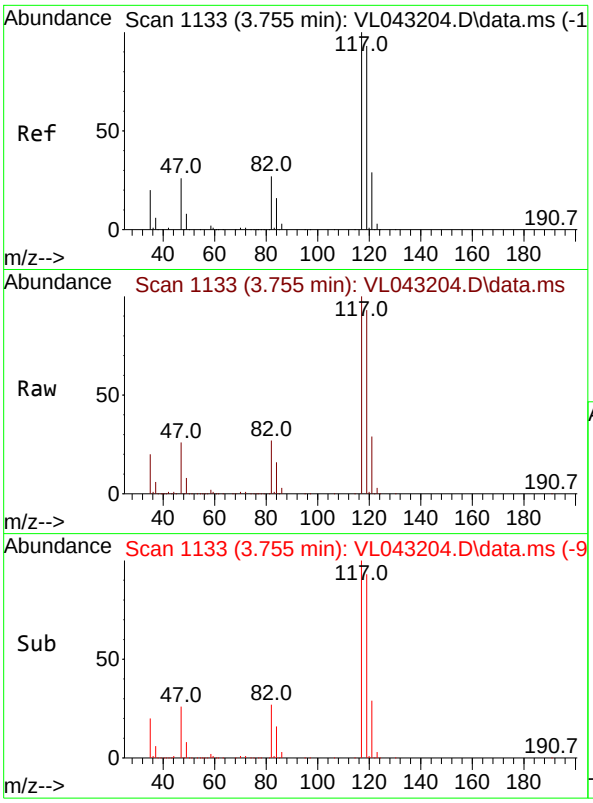


#34
2-Butanone
Concen: 9.121 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 182749

Ion	Ratio	Lower	Upper
43	100		
72	22.6	18.1	27.1



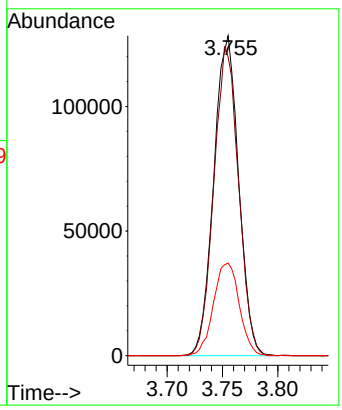


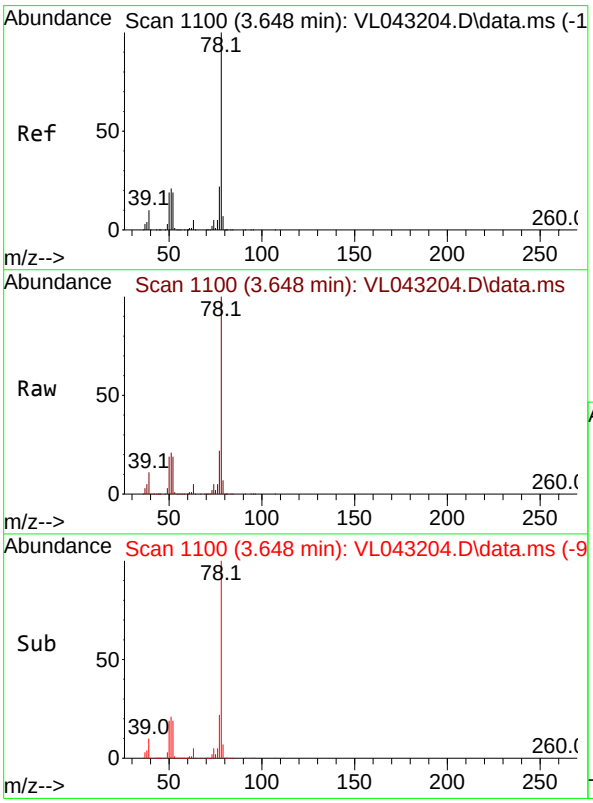
#35
Carbon Tetrachloride
Concen: 9.322 ppbv
RT: 3.755 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

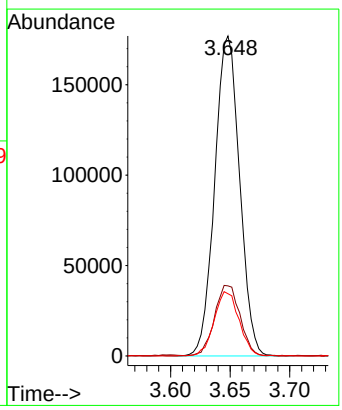


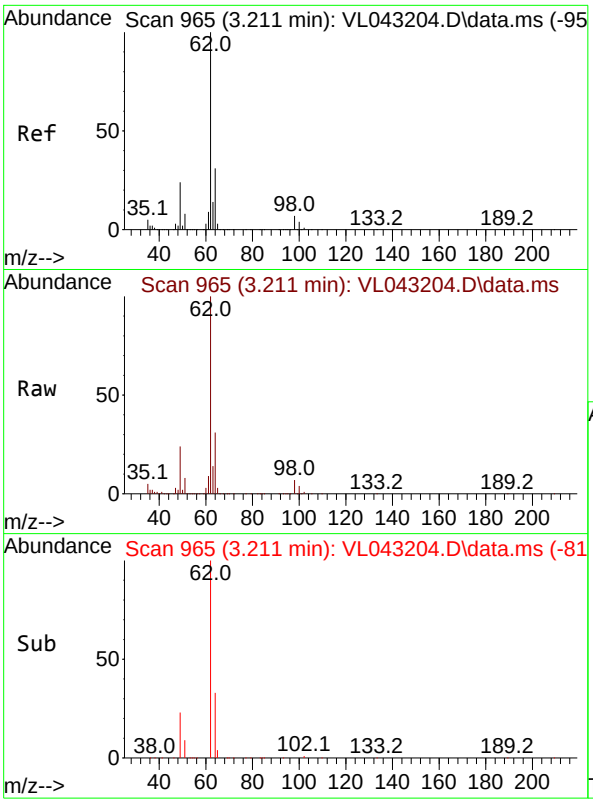


#36
Benzene
Concen: 9.453 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



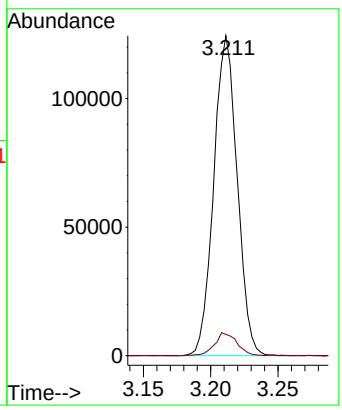


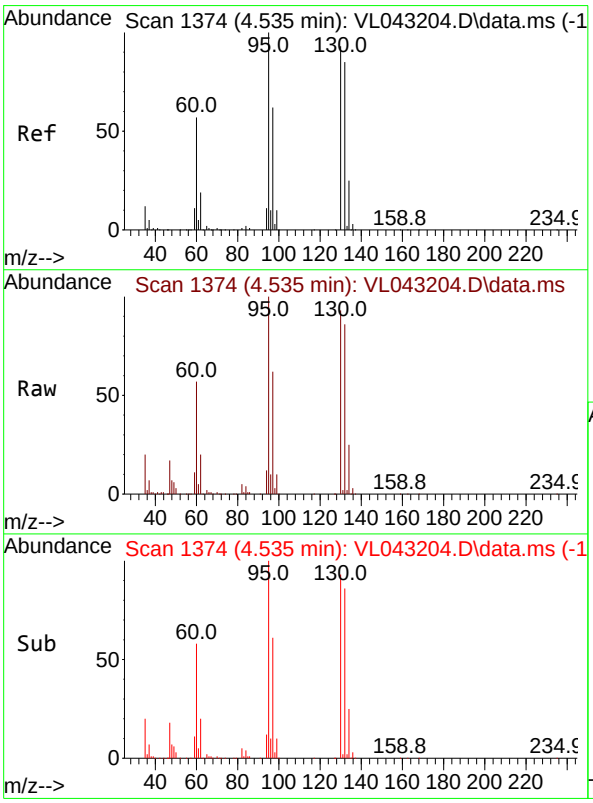
#37
1,2-Dichloroethane
Concen: 9.483 ppbv
RT: 3.211 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 150769

Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.5	8.3

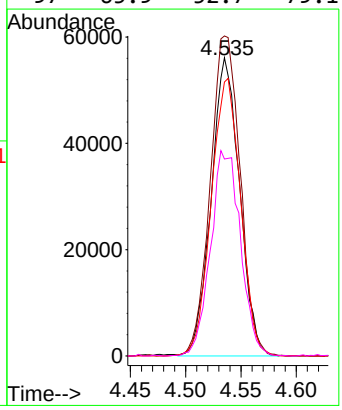


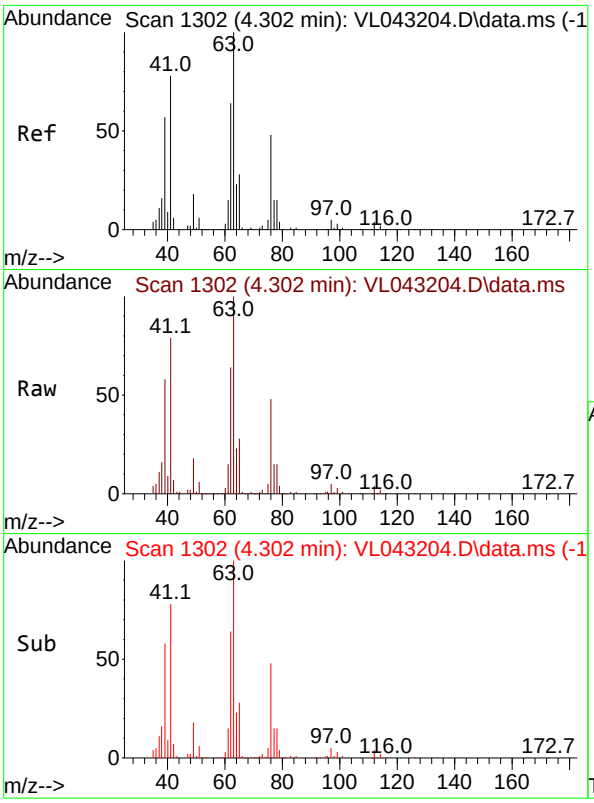


#38
Trichloroethene
Concen: 9.398 ppbv
RT: 4.535 min Scan# 1374
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



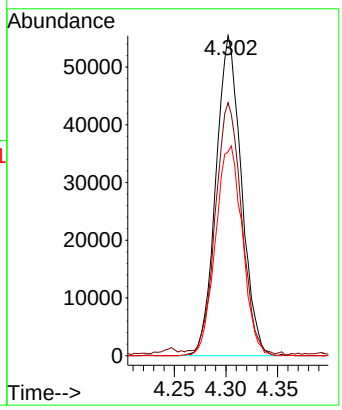


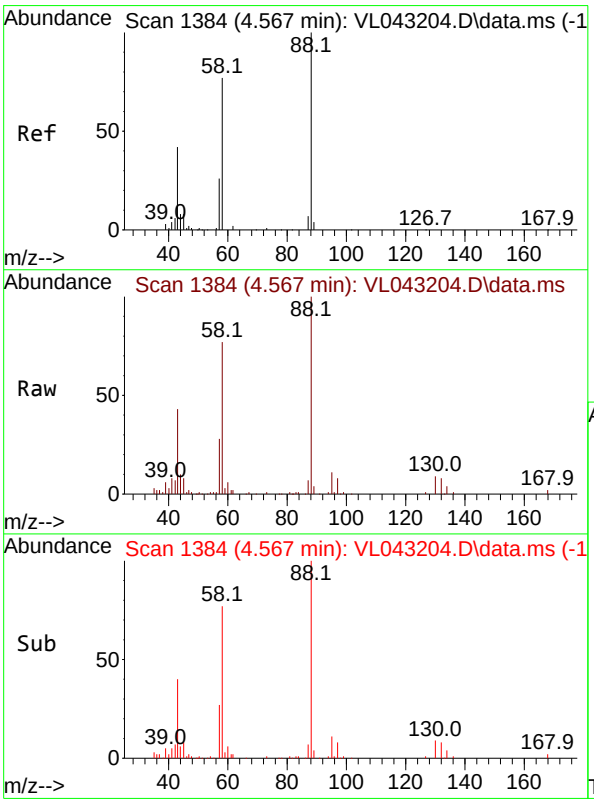
#39
1,2-Dichloropropane
Concen: 9.559 ppbv
RT: 4.302 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

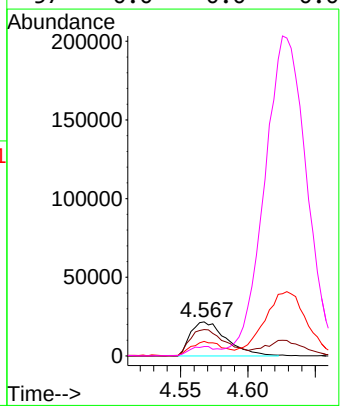


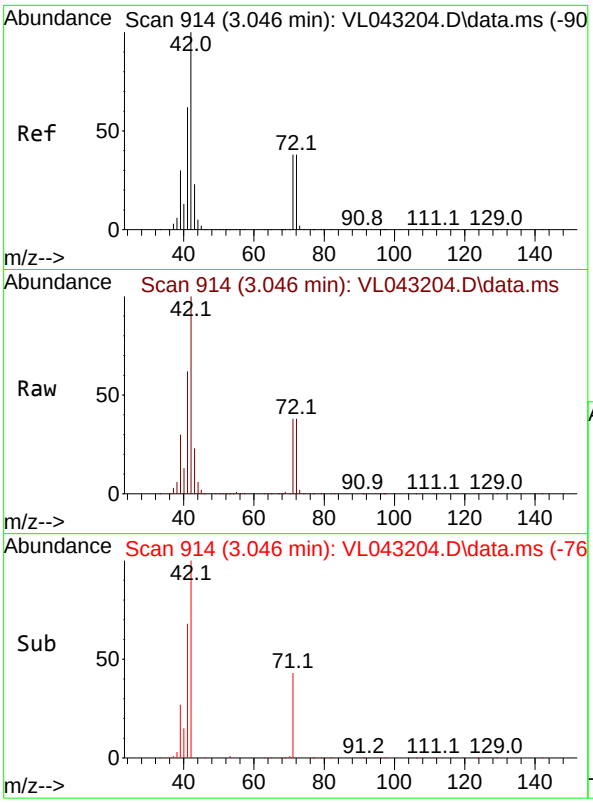


#40
1,4-Dioxane
Concen: 9.043 ppbv
RT: 4.567 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



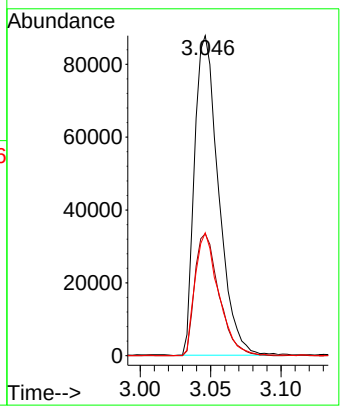


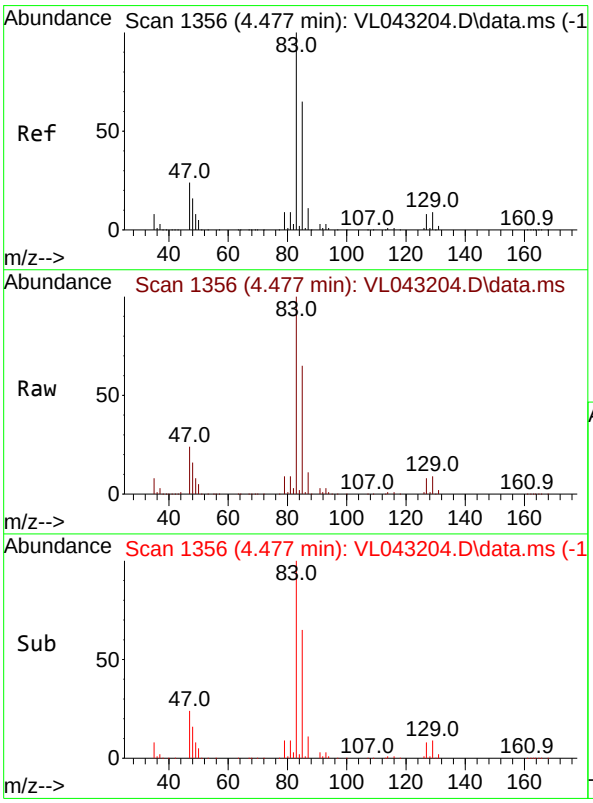
#41
Tetrahydrofuran
Concen: 9.426 ppbv
RT: 3.046 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

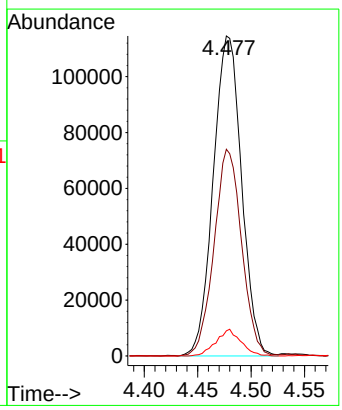


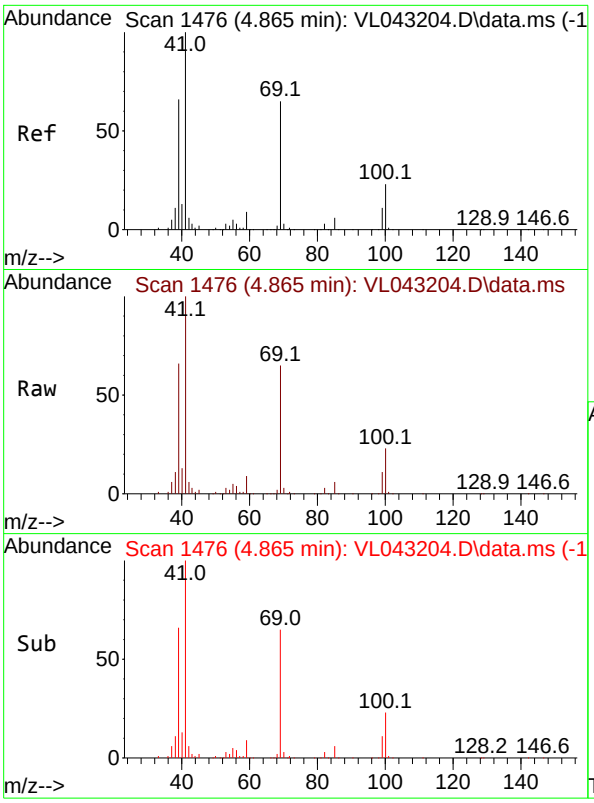


#42
Bromodichloromethane
Concen: 9.643 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



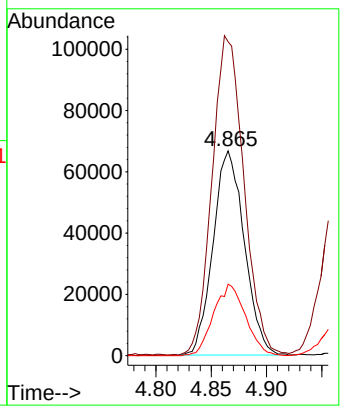


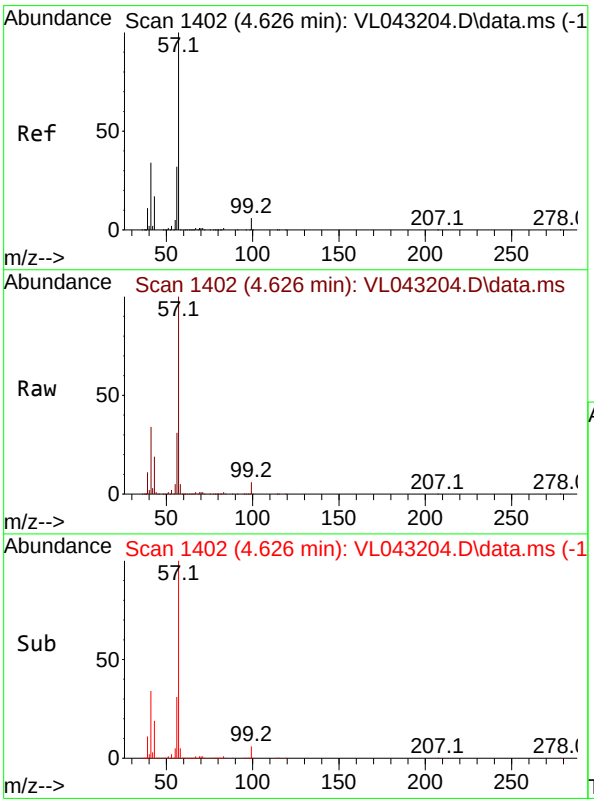
#43
Methyl Methacrylate
Concen: 9.080 ppbv
RT: 4.865 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

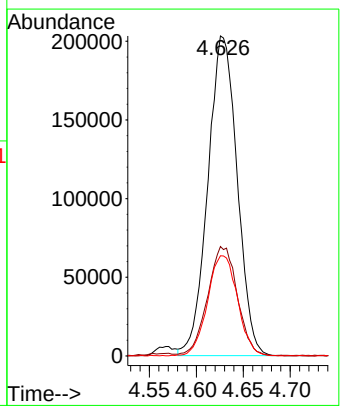


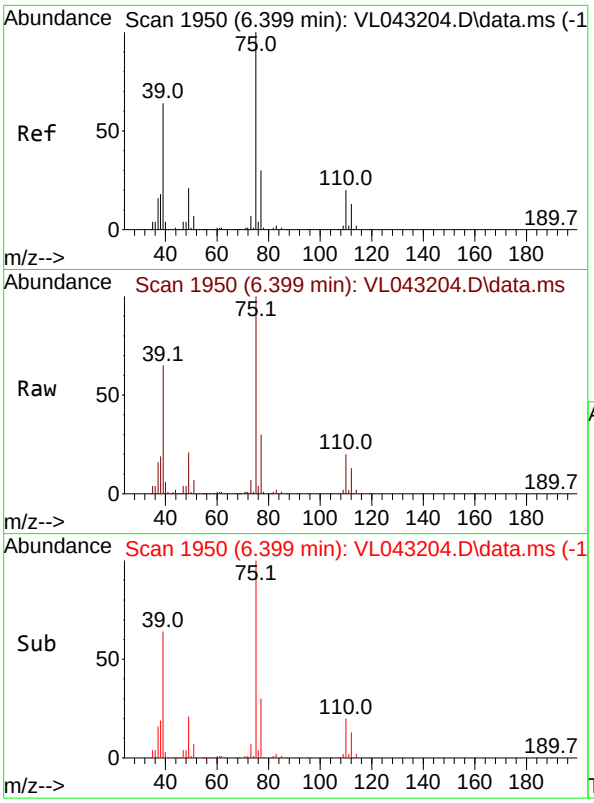


#44
2,2,4-Trimethylpentane
Concen: 9.451 ppbv
RT: 4.626 min Scan# 1402
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



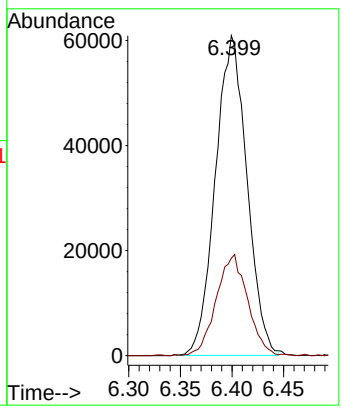


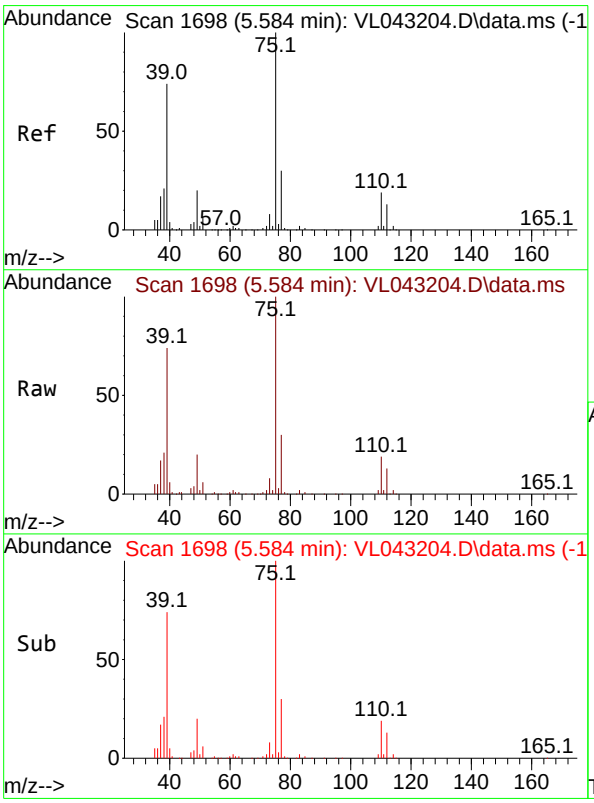
#45
t-1,3-Dichloropropene
Concen: 9.601 ppbv
RT: 6.399 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 75 Resp: 129122

Ion	Ratio	Lower	Upper
75	100		
77	30.4	24.3	36.5

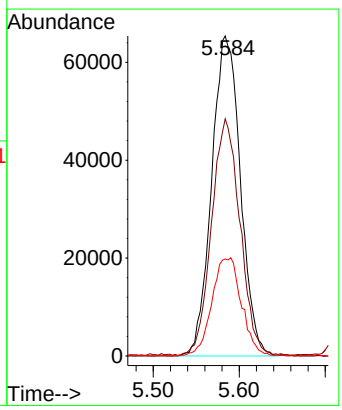


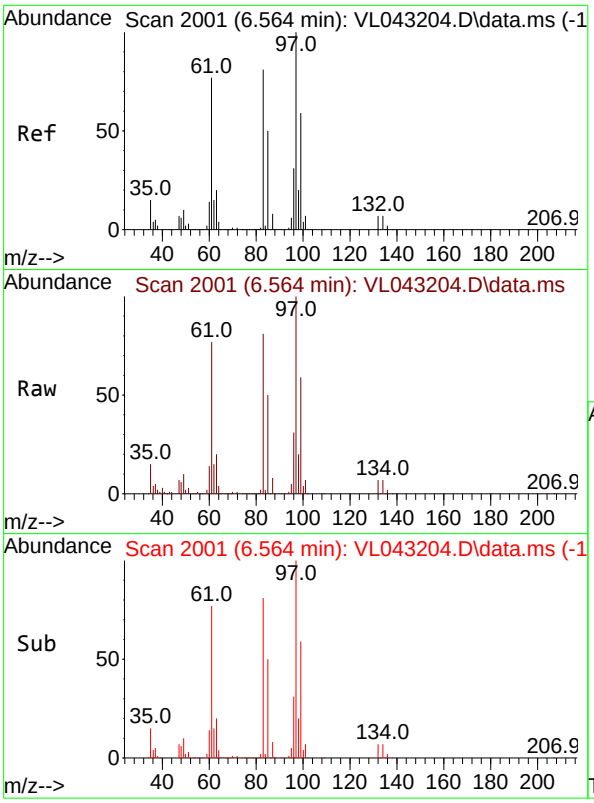


#46
cis-1,3-Dichloropropene
Concen: 9.603 ppbv
RT: 5.584 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



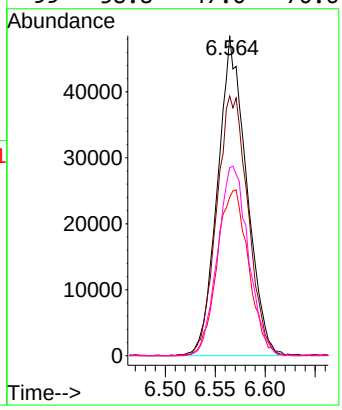


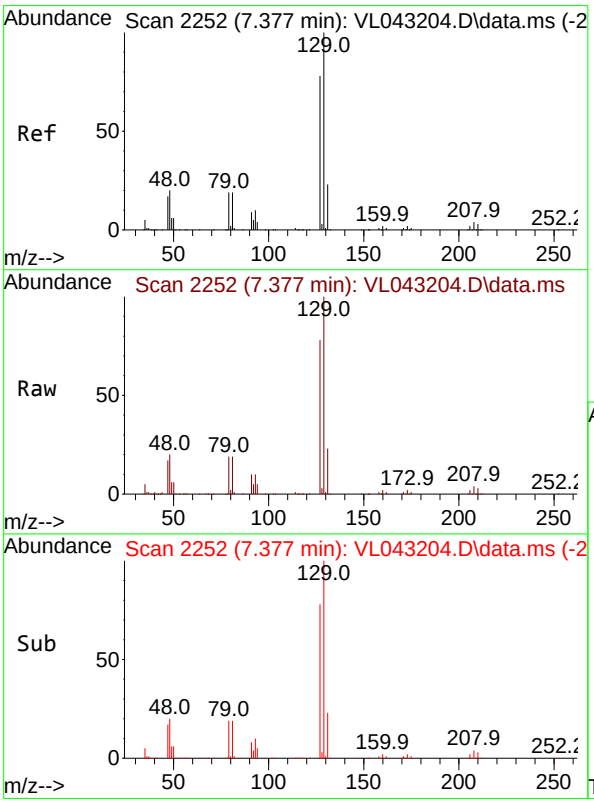
#47
1,1,2-Trichloroethane
Concen: 9.193 ppbv
RT: 6.564 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

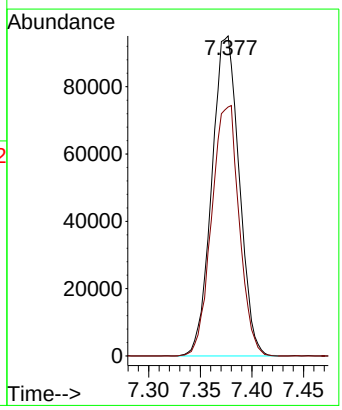


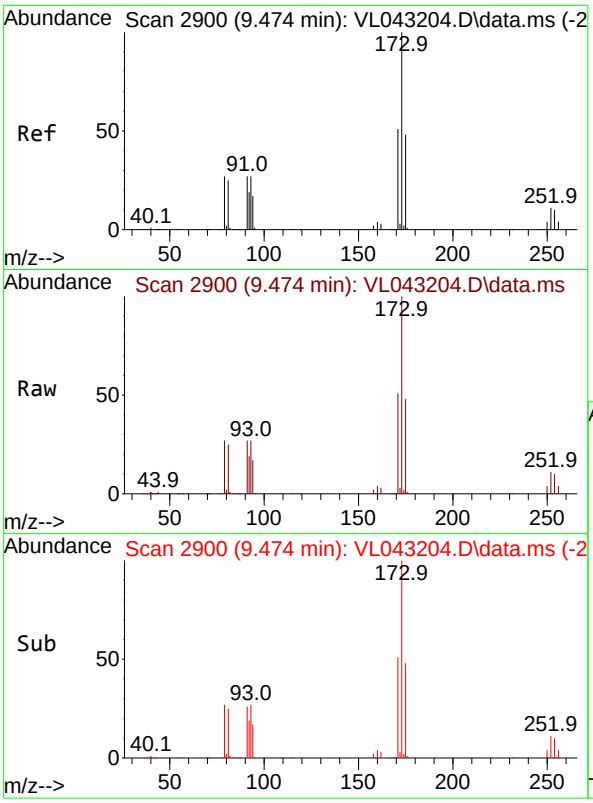


#48
Dibromochloromethane
Concen: 9.670 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:129 Resp: 175529

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.9



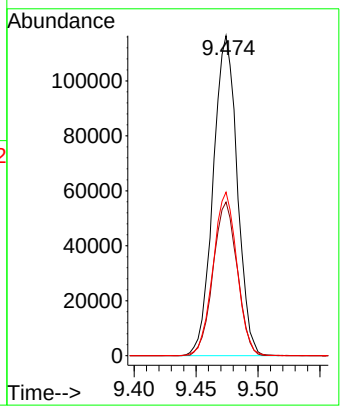


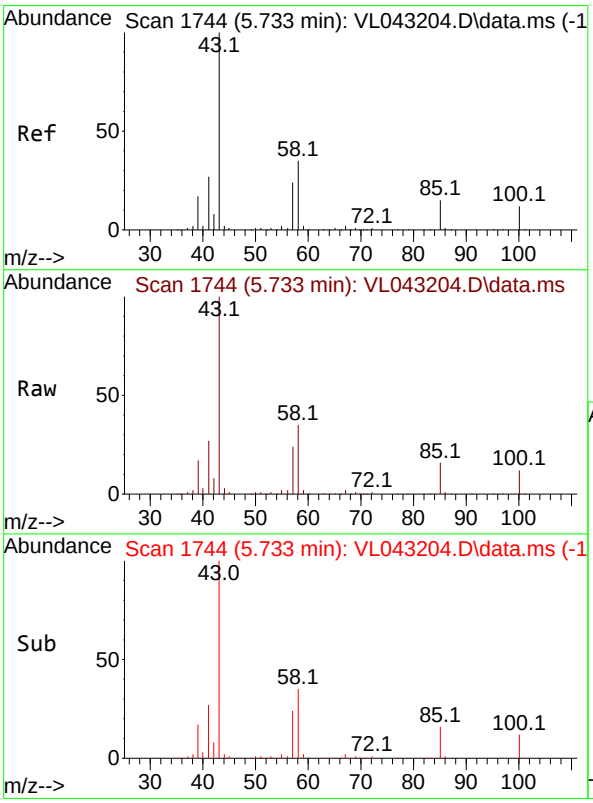
#49
Bromoform
Concen: 9.800 ppbv
RT: 9.474 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

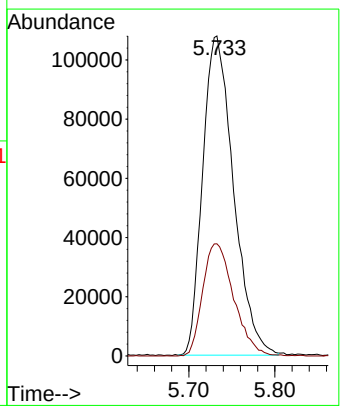


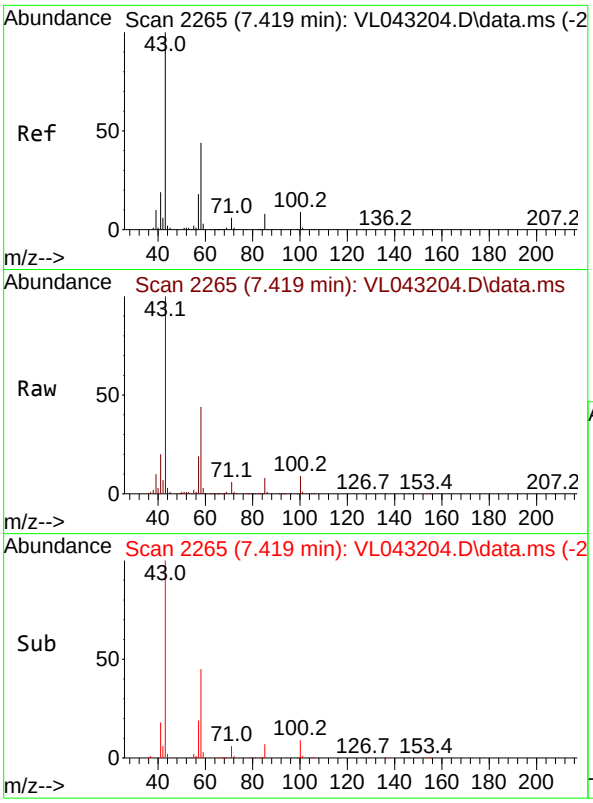


#50
4-Methyl-2-Pentanone
Concen: 9.509 ppbv
RT: 5.733 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 268369

Ion	Ratio	Lower	Upper
43	100		
58	35.5	28.4	42.6



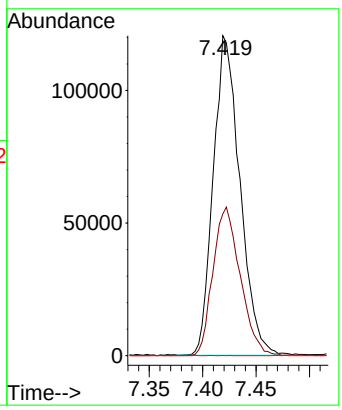


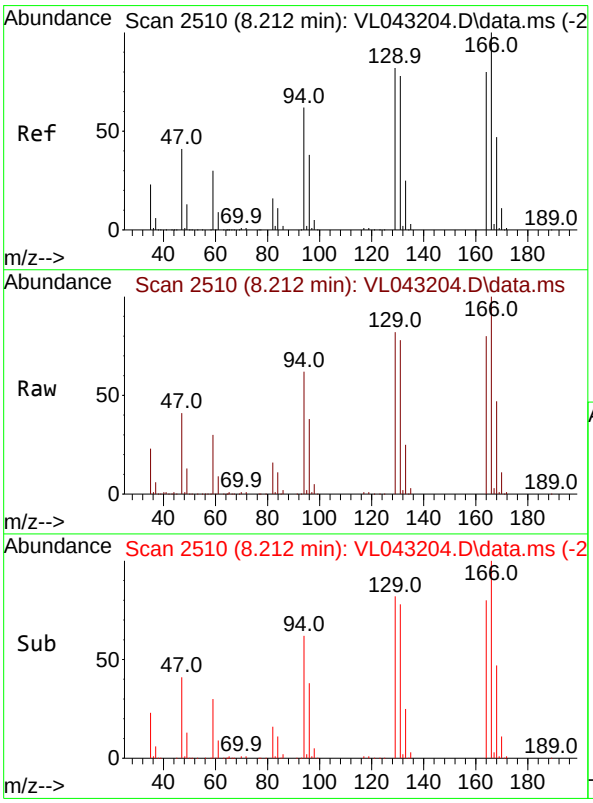
#51
2-Hexanone
Concen: 9.503 ppbv
RT: 7.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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#

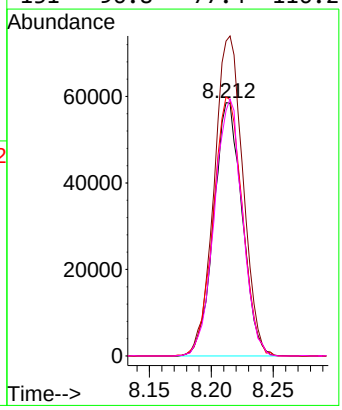


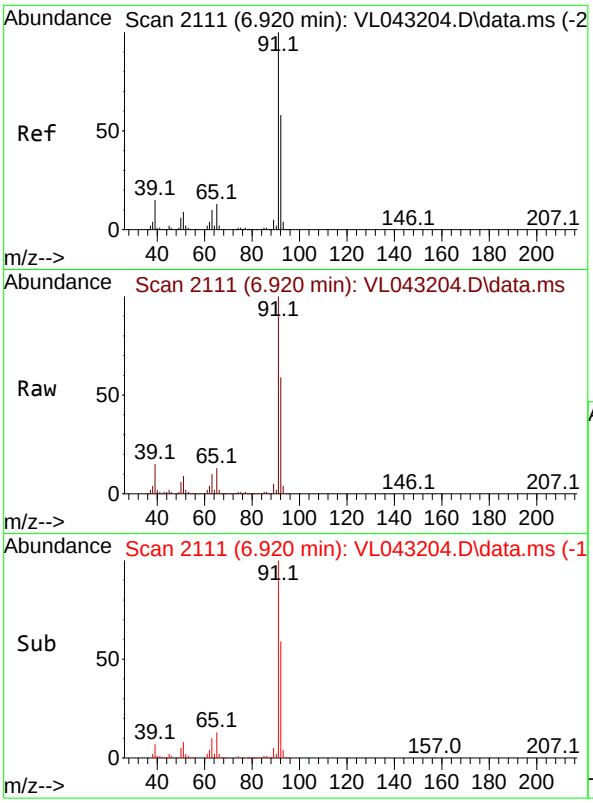


#52
Tetrachloroethene
Concen: 9.249 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



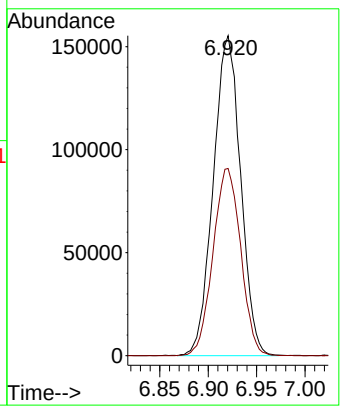


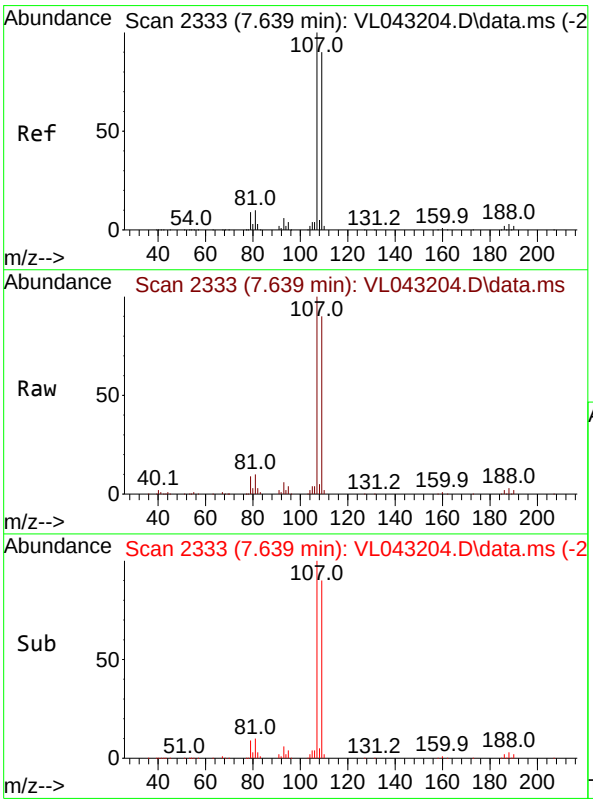
#53
Toluene
Concen: 9.422 ppbv
RT: 6.920 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 305169

Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.4	71.0

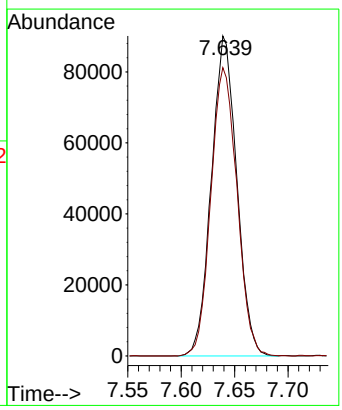


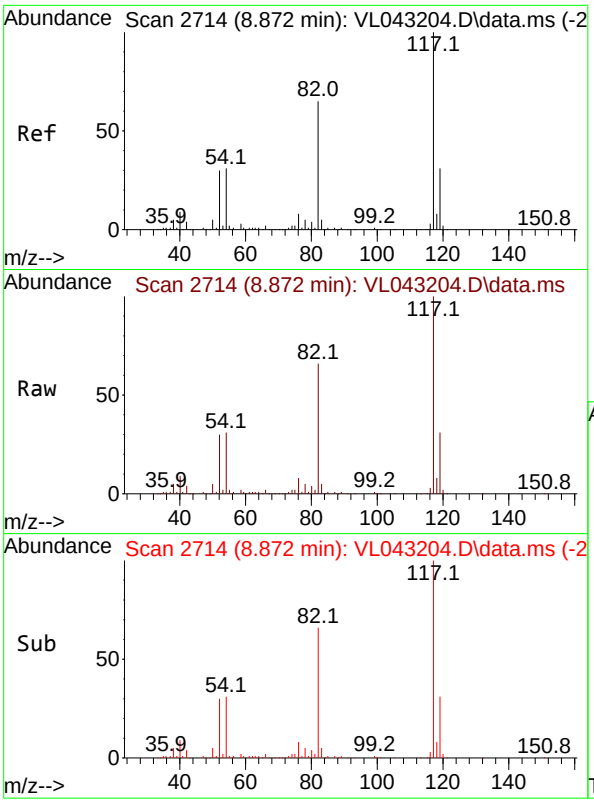


#54
1,2-Dibromoethane
Concen: 9.588 ppbv
RT: 7.639 min Scan# 2333
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:107 Resp: 148973

Ion	Ratio	Lower	Upper
107	100		
109	90.1	72.1	108.1



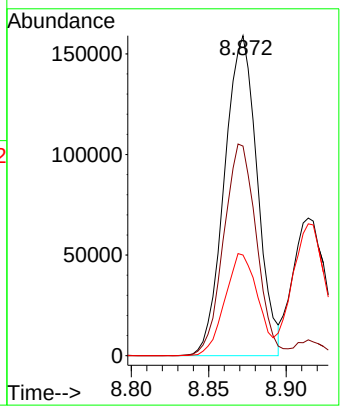


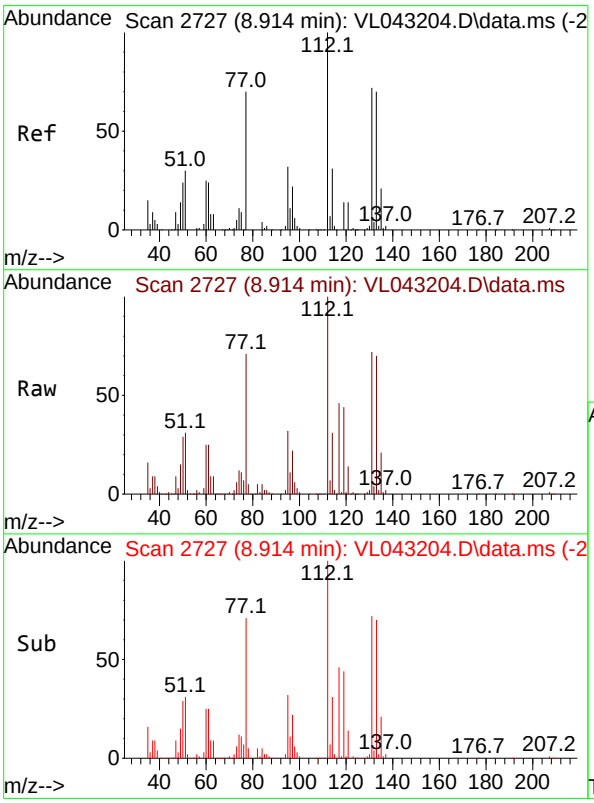
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

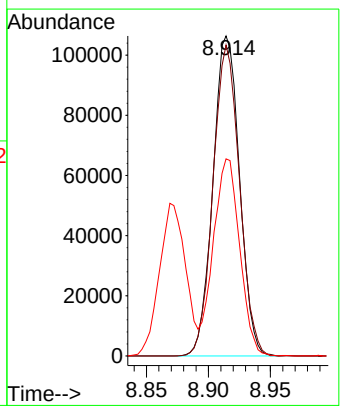


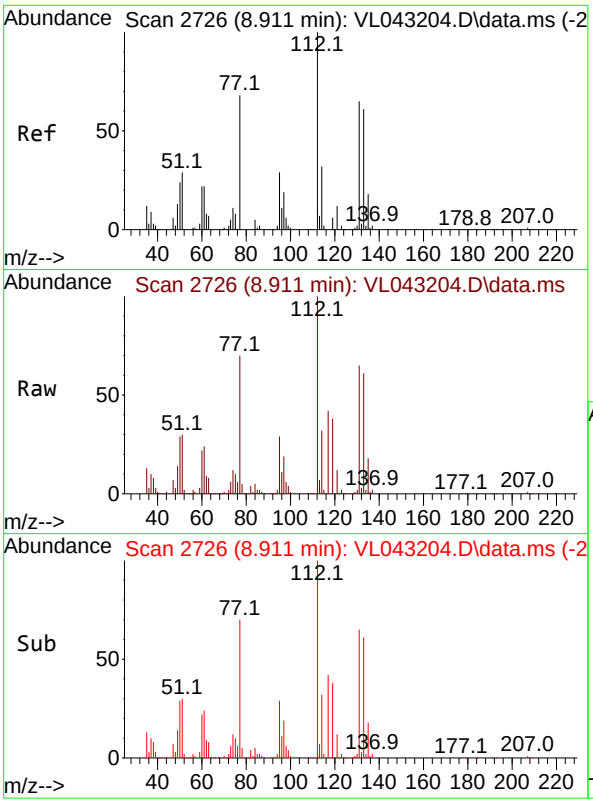


#56
1,1,1,2-Tetrachloroethane
Concen: 9.207 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



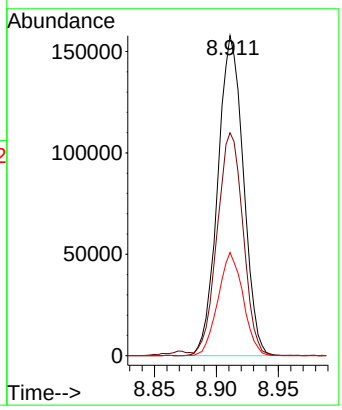


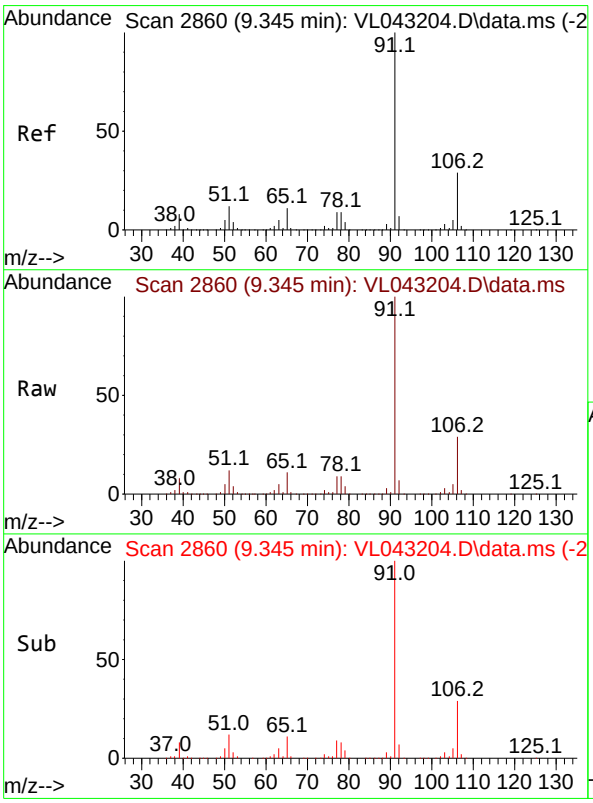
#57
Chlorobenzene
Concen: 9.438 ppbv
RT: 8.911 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

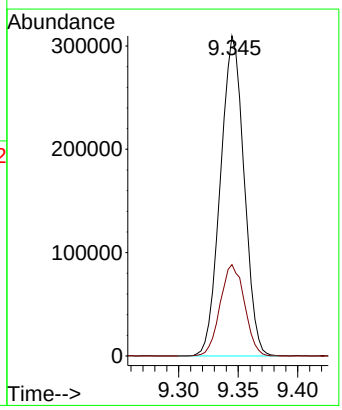


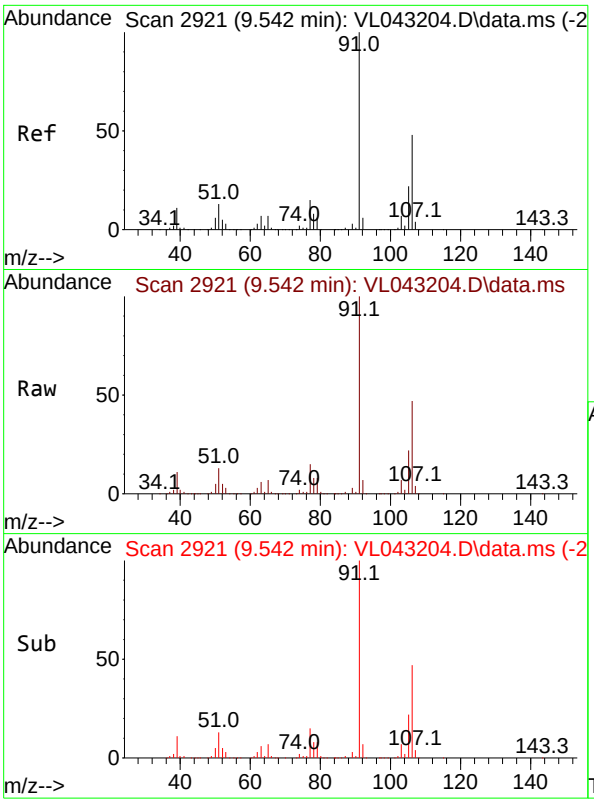


#58
Ethyl Benzene
Concen: 9.461 ppbv
RT: 9.345 min Scan# 2860
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 427530

Ion	Ratio	Lower	Upper
91	100		
106	28.5	22.8	34.2



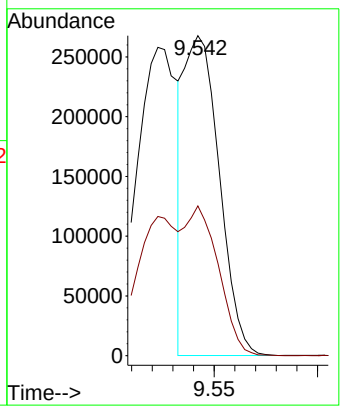


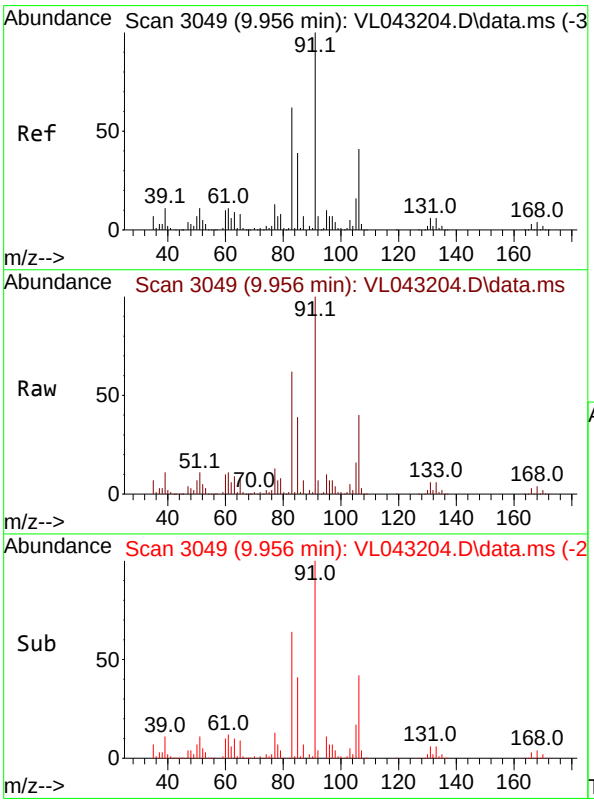
#59
m/p-Xylene
Concen: 8.707 ppbv
RT: 9.542 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 316603

Ion	Ratio	Lower	Upper
91	100		
106	95.9	36.1	54.1#

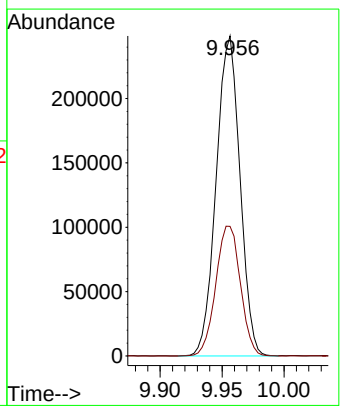


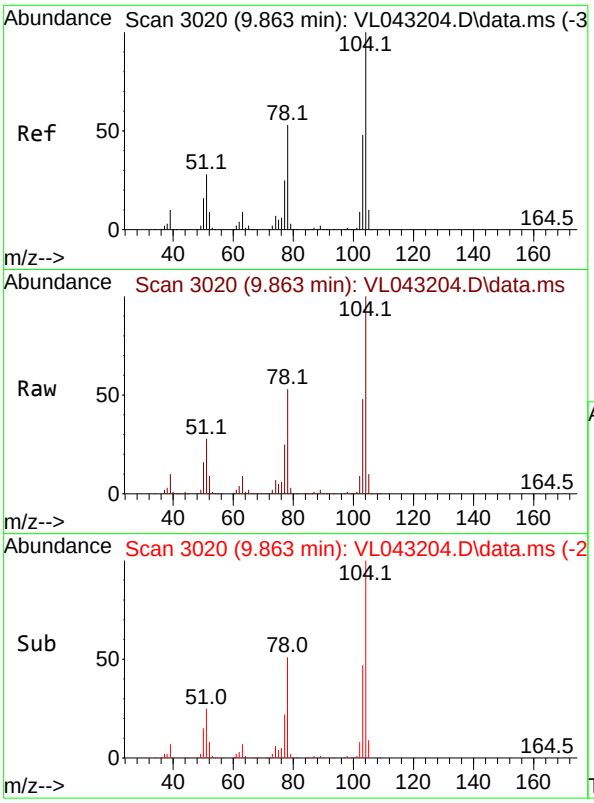


#60
o-Xylene
Concen: 9.202 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 333044

Ion	Ratio	Lower	Upper
91	100		
106	41.9	20.9	62.8



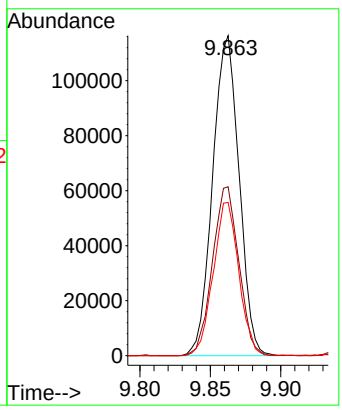


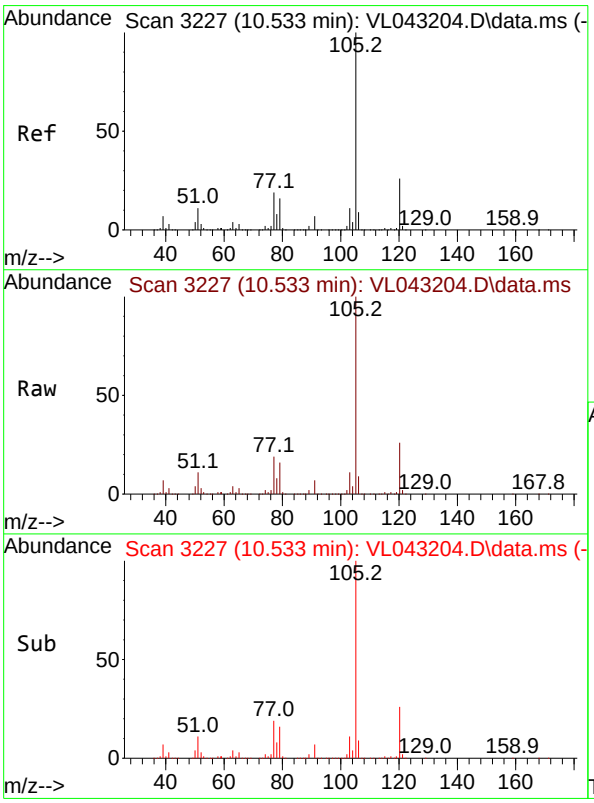
#61
Styrene
Concen: 9.607 ppbv
RT: 9.863 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

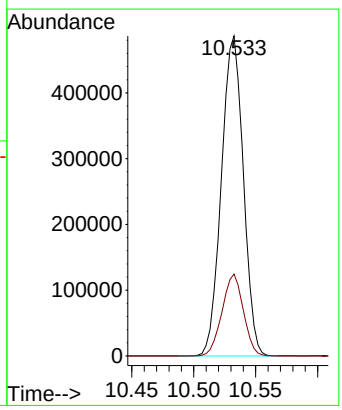


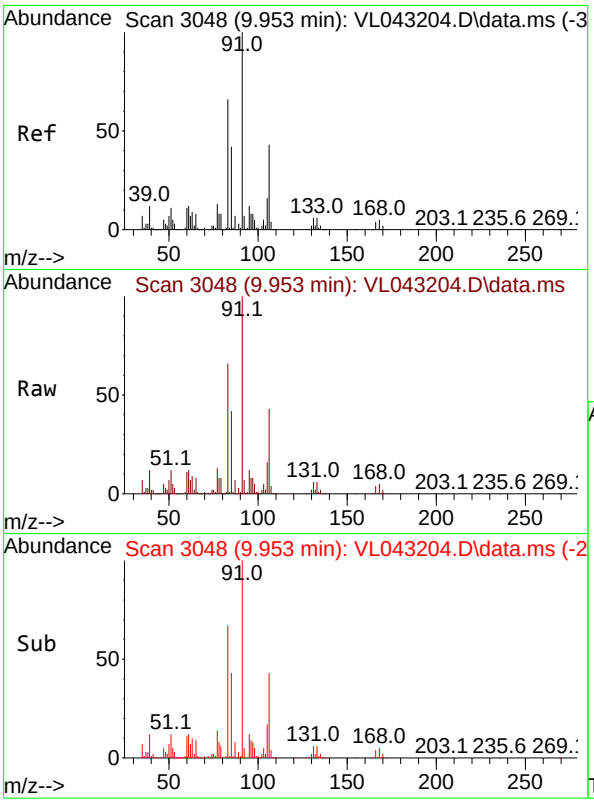


#62
Isopropylbenzene
Concen: 9.269 ppbv
RT: 10.533 min Scan# 3227
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:105 Resp: 600155

Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.8	29.8



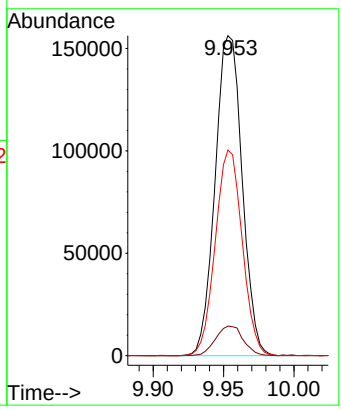


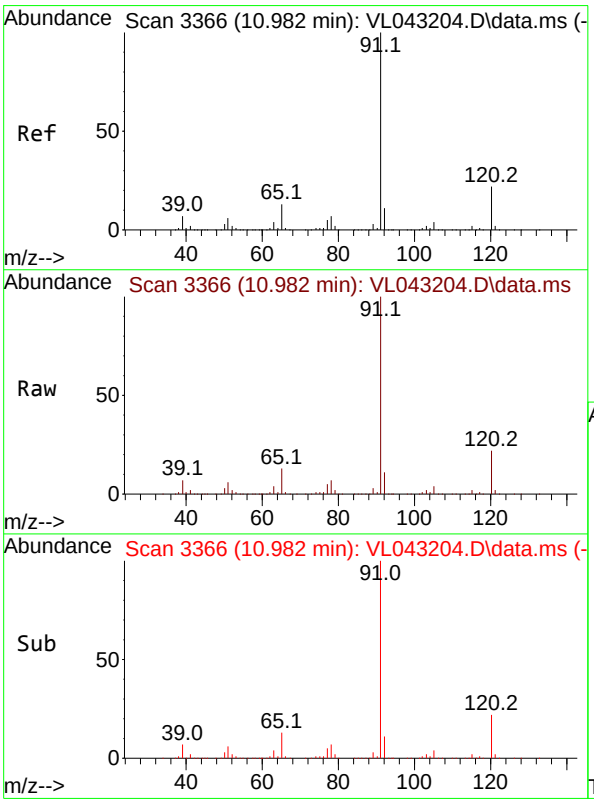
#63
1,1,2,2-Tetrachloroethane
Concen: 9.109 ppbv
RT: 9.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

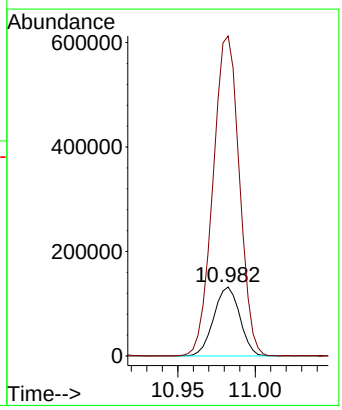


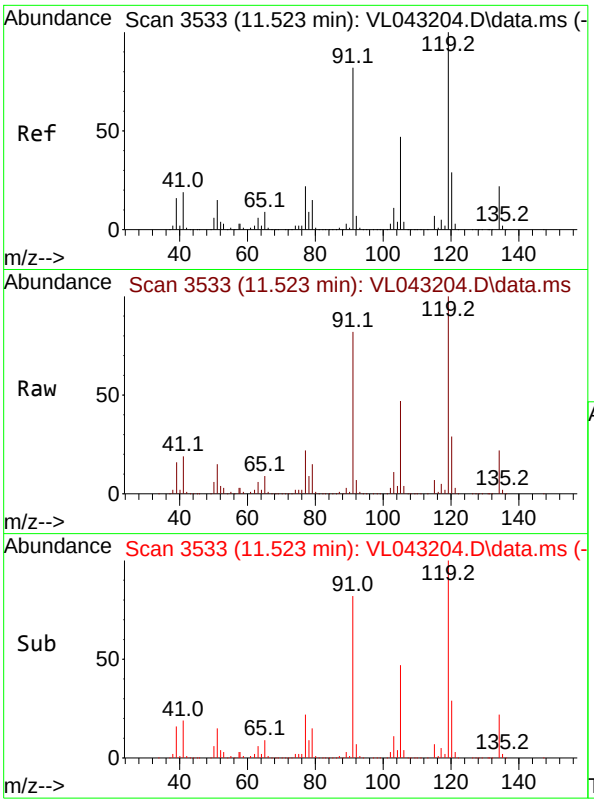


#64
n-propylbenzene
Concen: 9.271 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:120 Resp: 154239

Ion	Ratio	Lower	Upper
120	100		
91	471.4	377.1	565.7



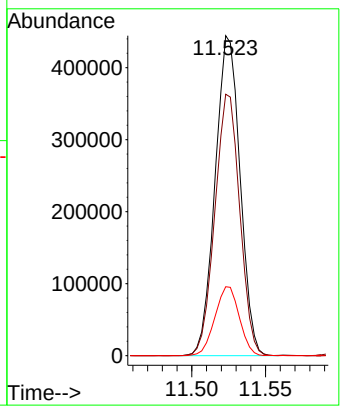


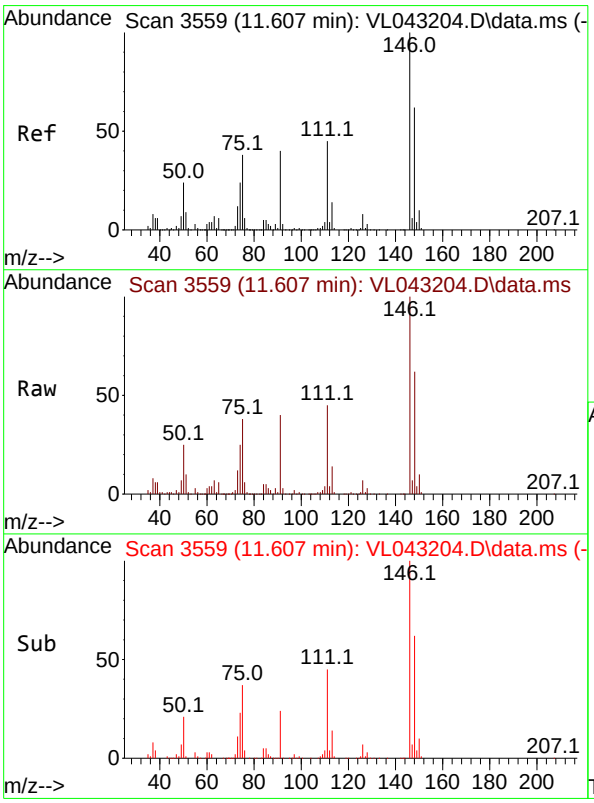
#65
tert-Butylbenzene
Concen: 9.029 ppbv
RT: 11.523 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

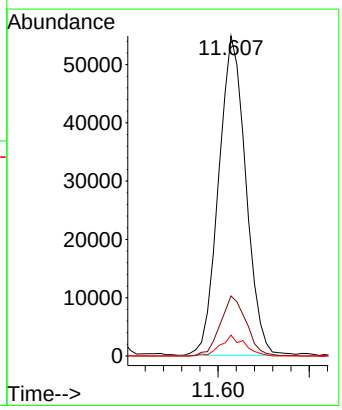


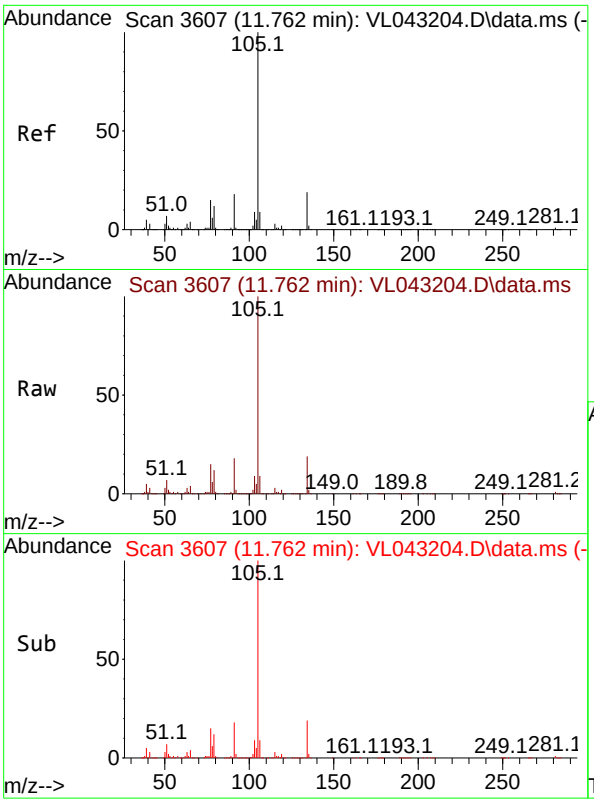


#66
Benzyl Chloride
Concen: 9.649 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



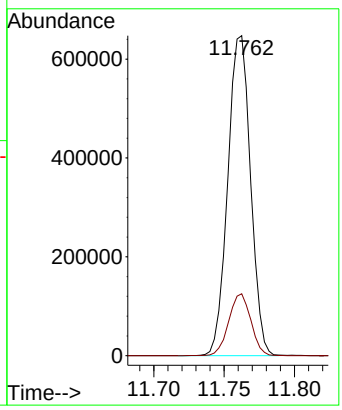


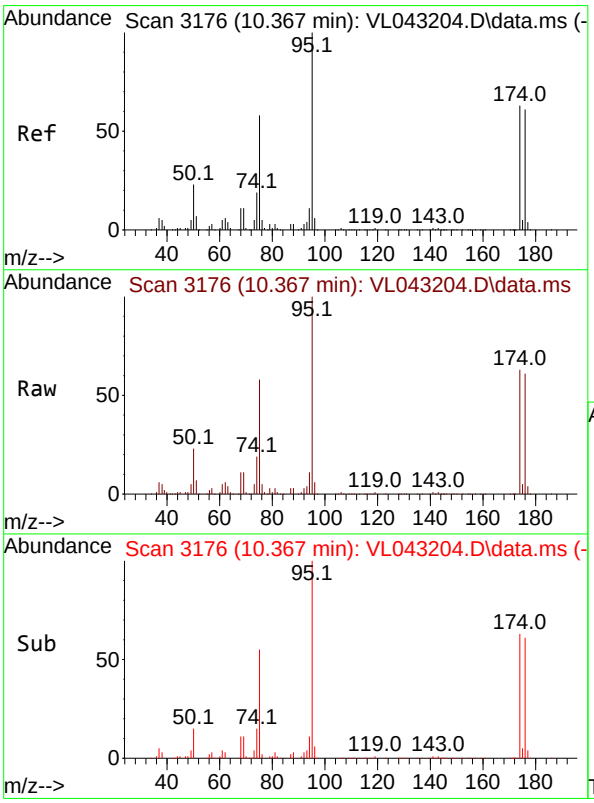
#67
sec-Butylbenzene
Concen: 9.039 ppbv
RT: 11.762 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 729573

Ion	Ratio	Lower	Upper
105	100		
134	18.8	15.0	22.6

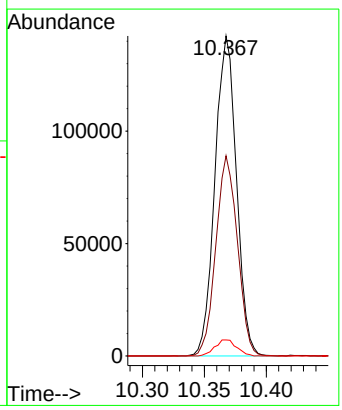


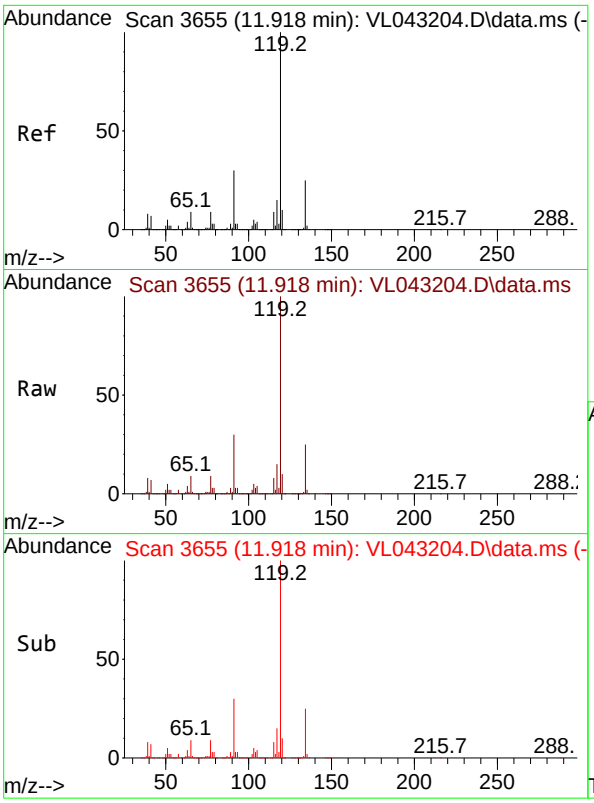


#68
1-Bromo-4-Fluorobenzene
Concen: 10.025 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



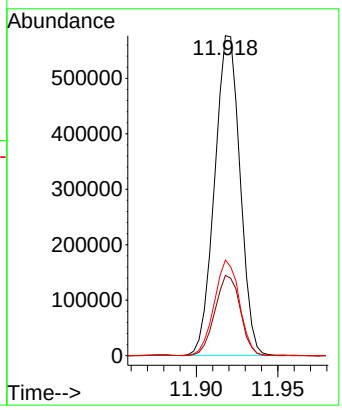


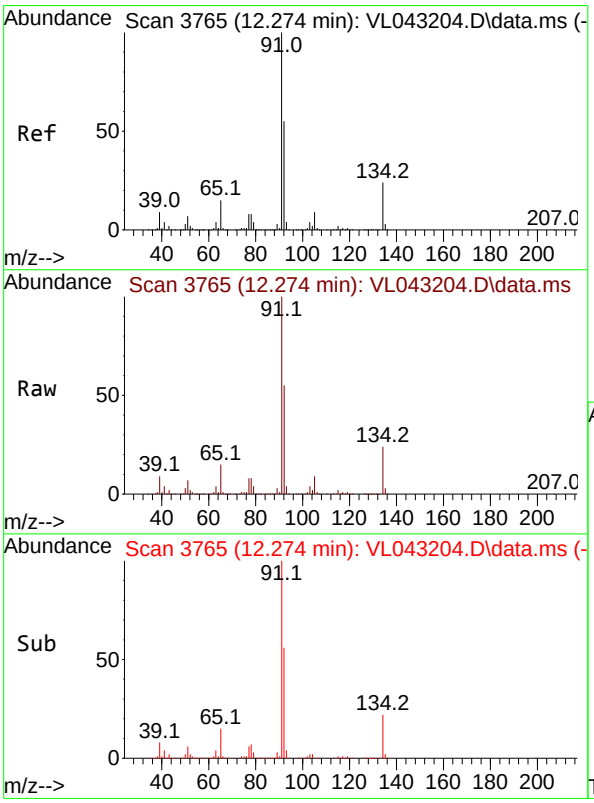
#69
p-Isopropyltoluene
Concen: 9.135 ppbv
RT: 11.918 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

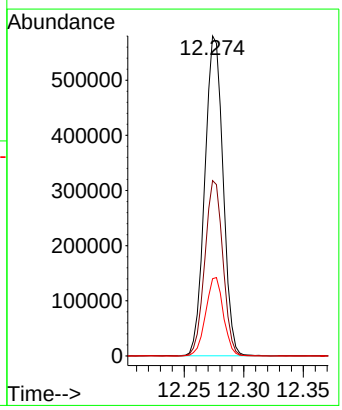


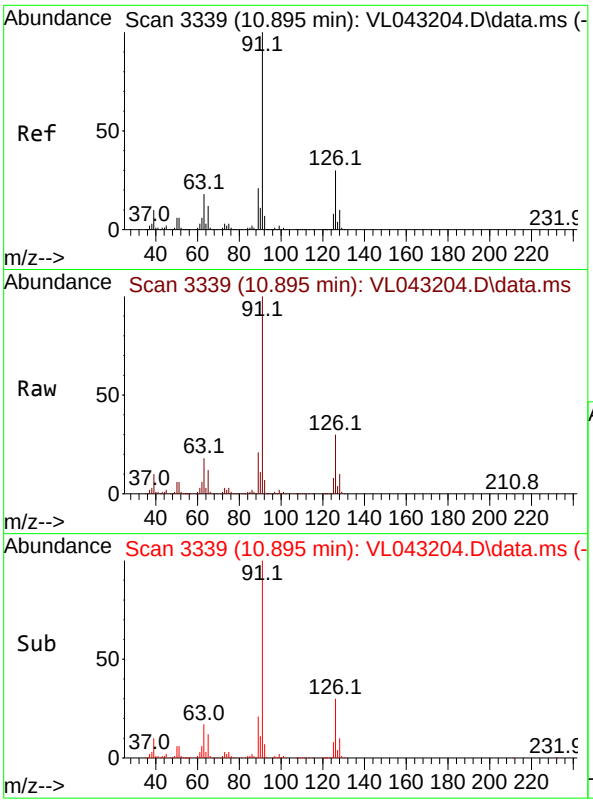


#70
n-Butylbenzene
Concen: 9.341 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



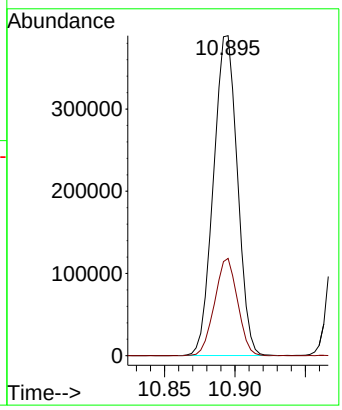


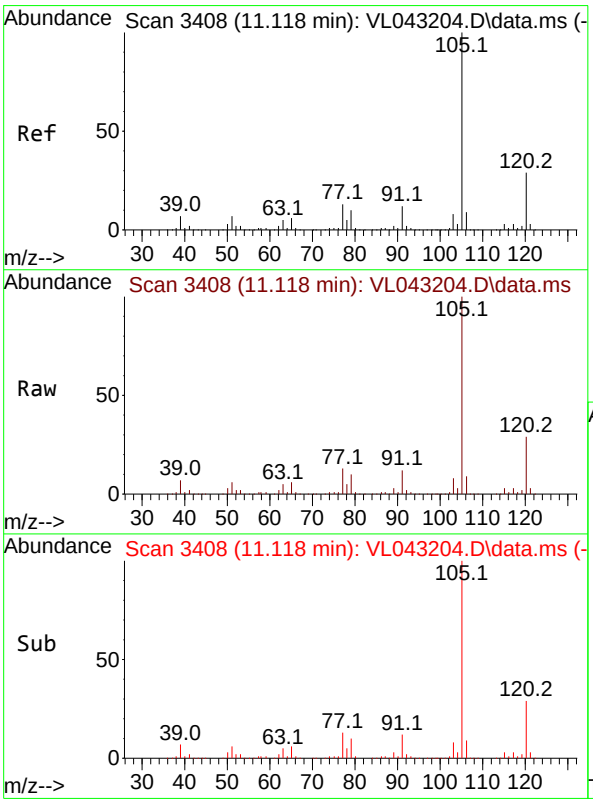
#71
2-Chlorotoluene
Concen: 9.245 ppbv
RT: 10.895 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 460118

Ion	Ratio	Lower	Upper
91	100		
126	29.2	11.7	46.7

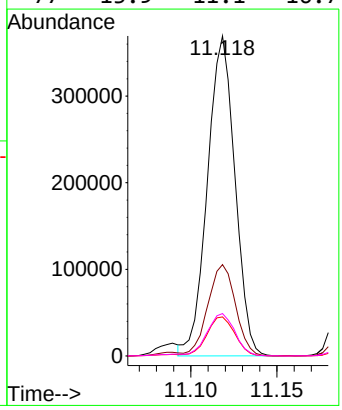


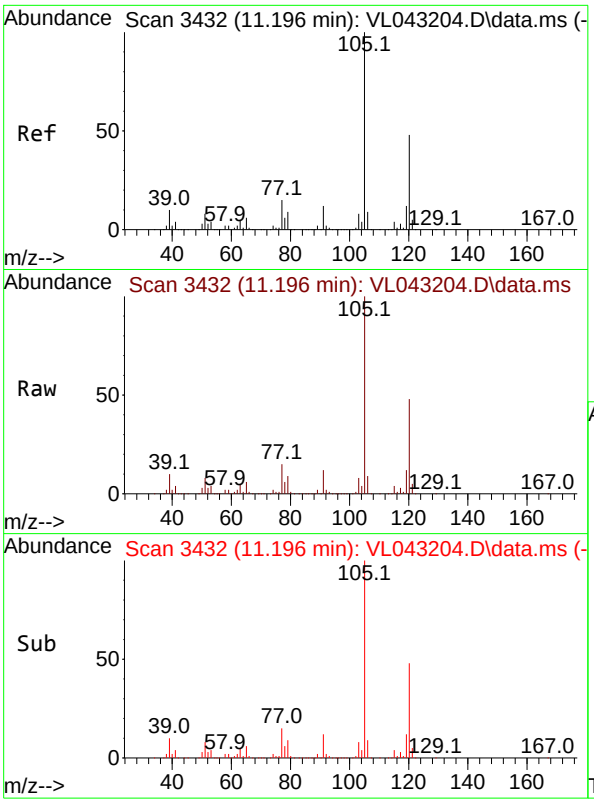


#72
4-Ethyltoluene
Concen: 9.316 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



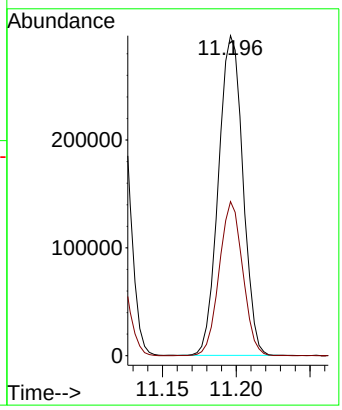


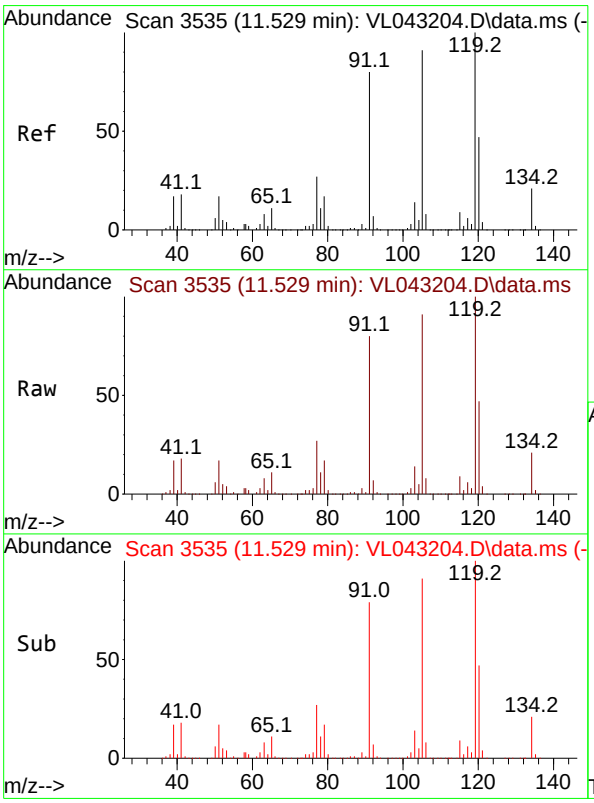
#73
1,3,5-Trimethylbenzene
Concen: 9.244 ppbv
RT: 11.196 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 341900

Ion	Ratio	Lower	Upper
105	100		
120	48.2	38.6	57.8

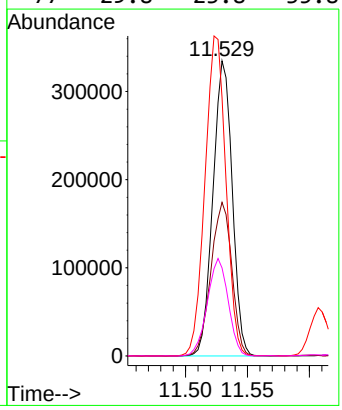


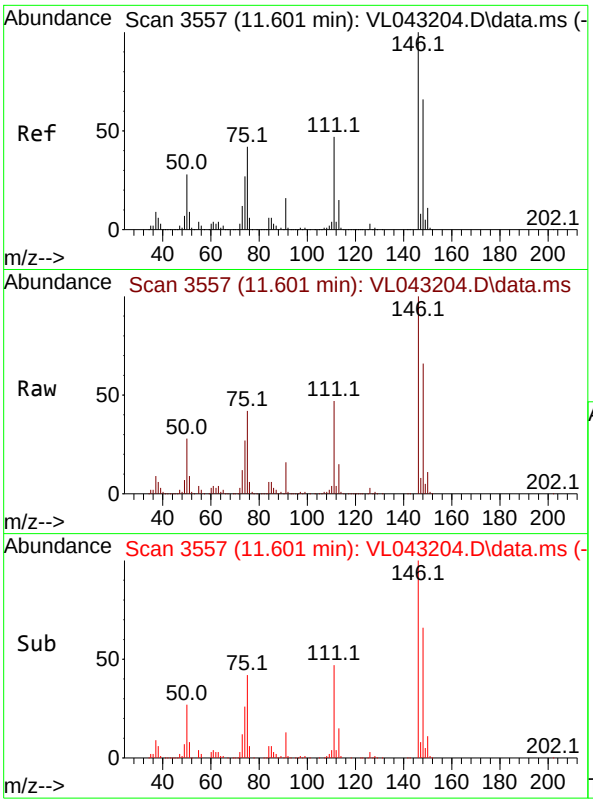


#74
1,2,4-Trimethylbenzene
Concen: 9.005 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



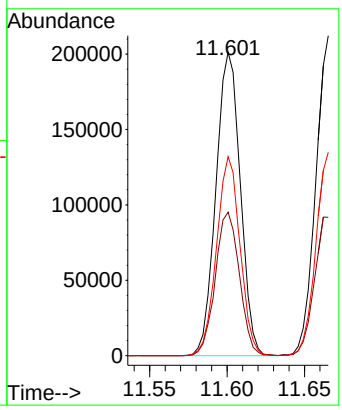


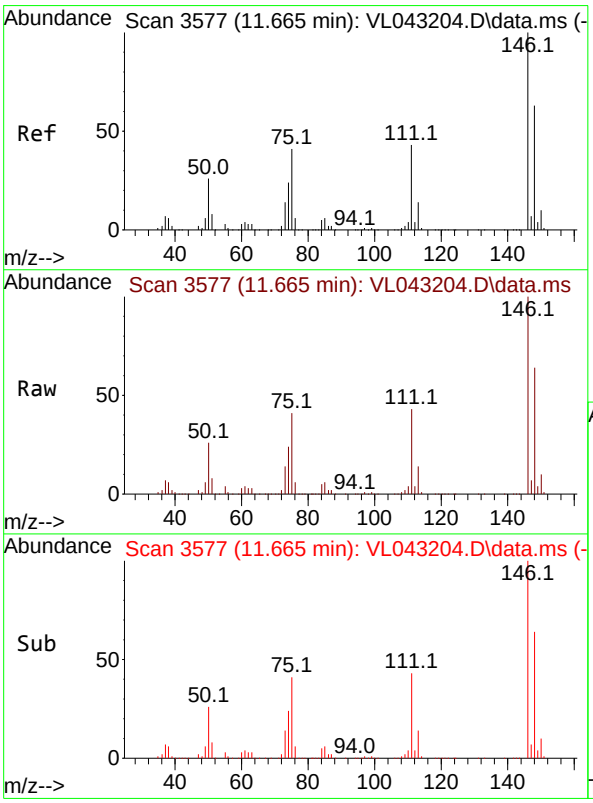
#75
1,3-Dichlorobenzene
Concen: 9.335 ppbv
RT: 11.601 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

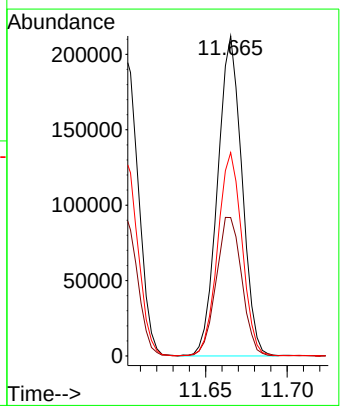


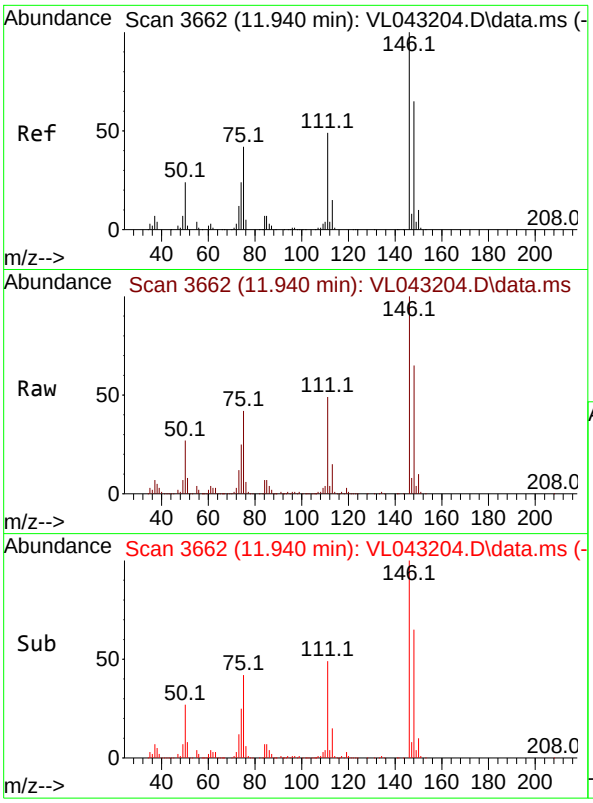


#76
1,4-Dichlorobenzene
Concen: 9.363 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



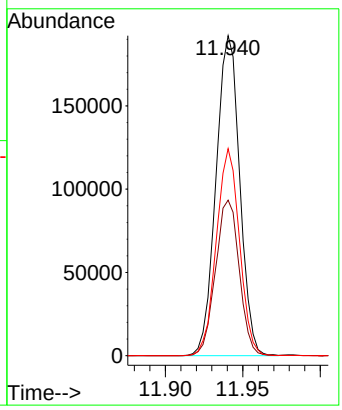


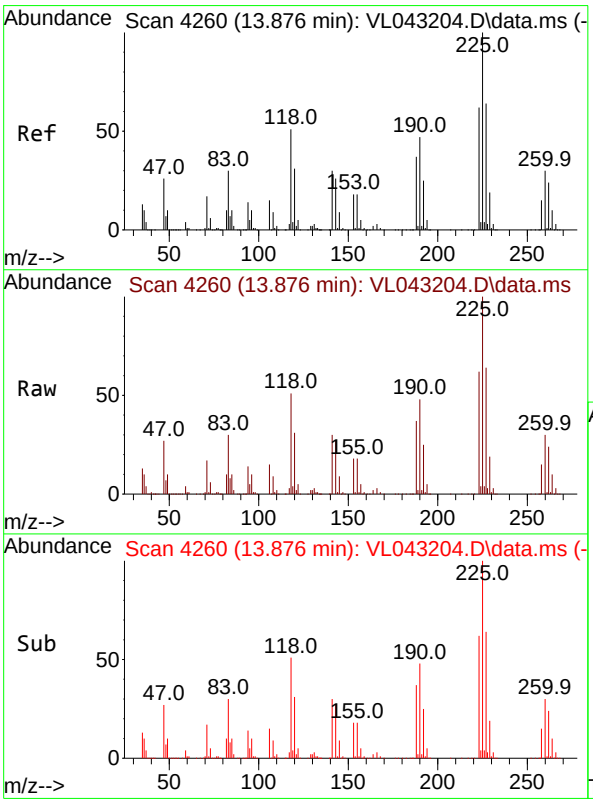
#77
1,2-Dichlorobenzene
Concen: 9.044 ppbv
RT: 11.940 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

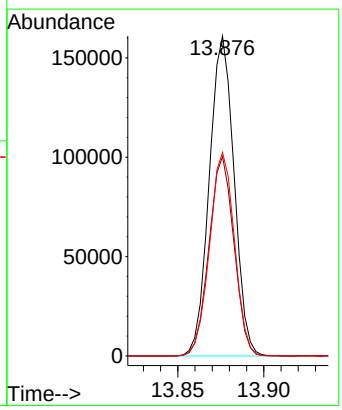


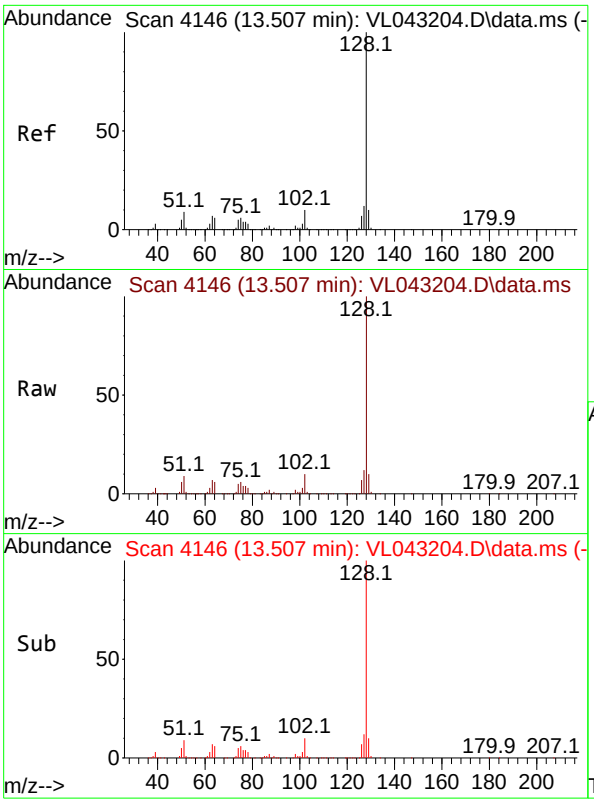


#78
Hexachloro-1,3-Butadiene
Concen: 8.520 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



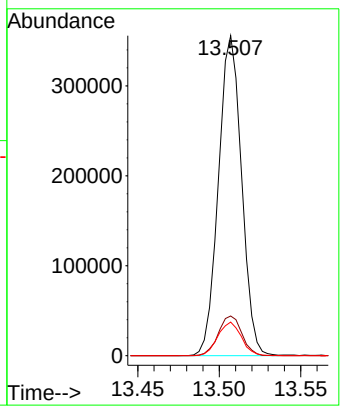


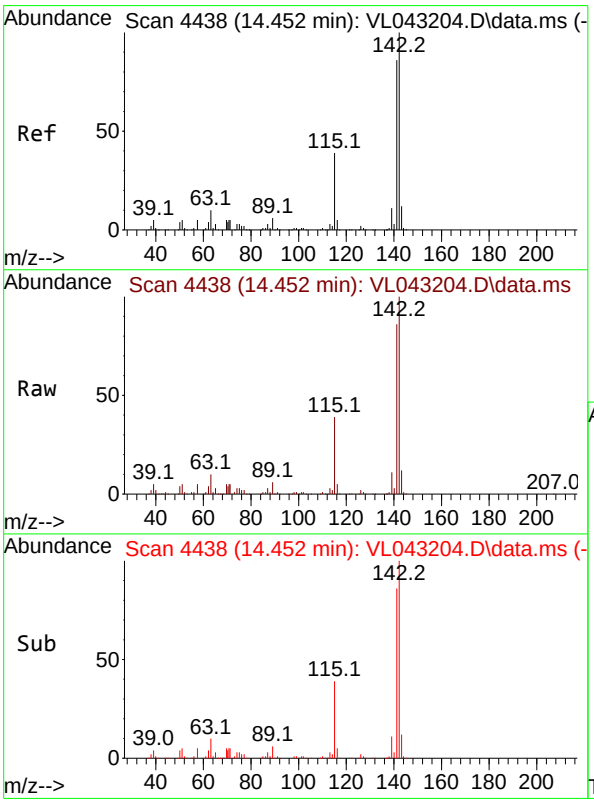
#79
Naphthalene
Concen: 9.795 ppbv
RT: 13.507 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

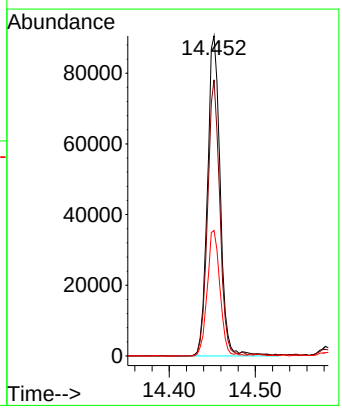


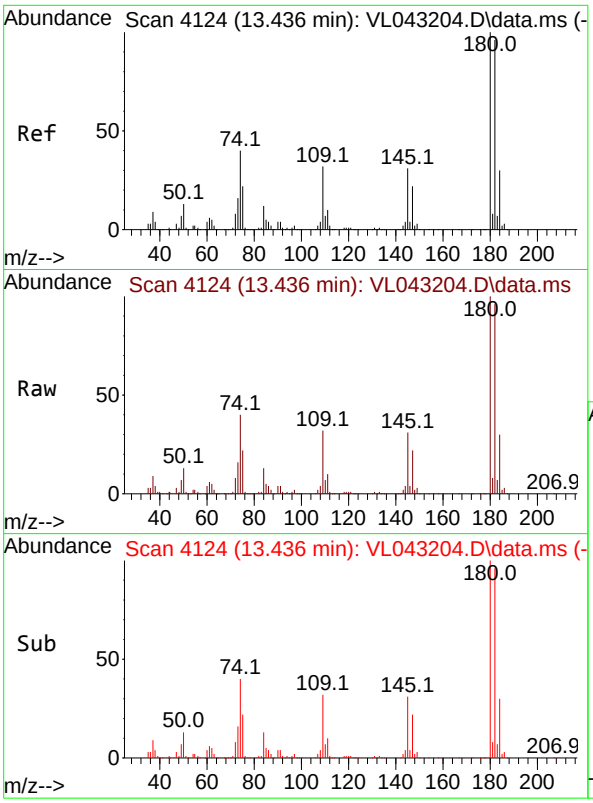


#80
Naphthalene,2-methyl-
Concen: 9.895 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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



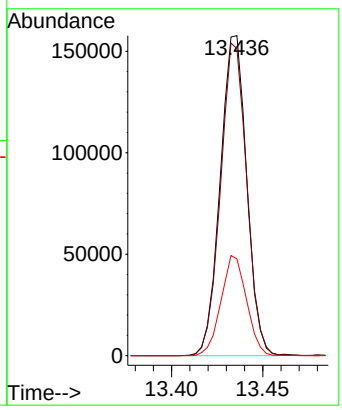


#81
1,2,4-Trichlorobenzene
Concen: 9.923 ppbv
RT: 13.436 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

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

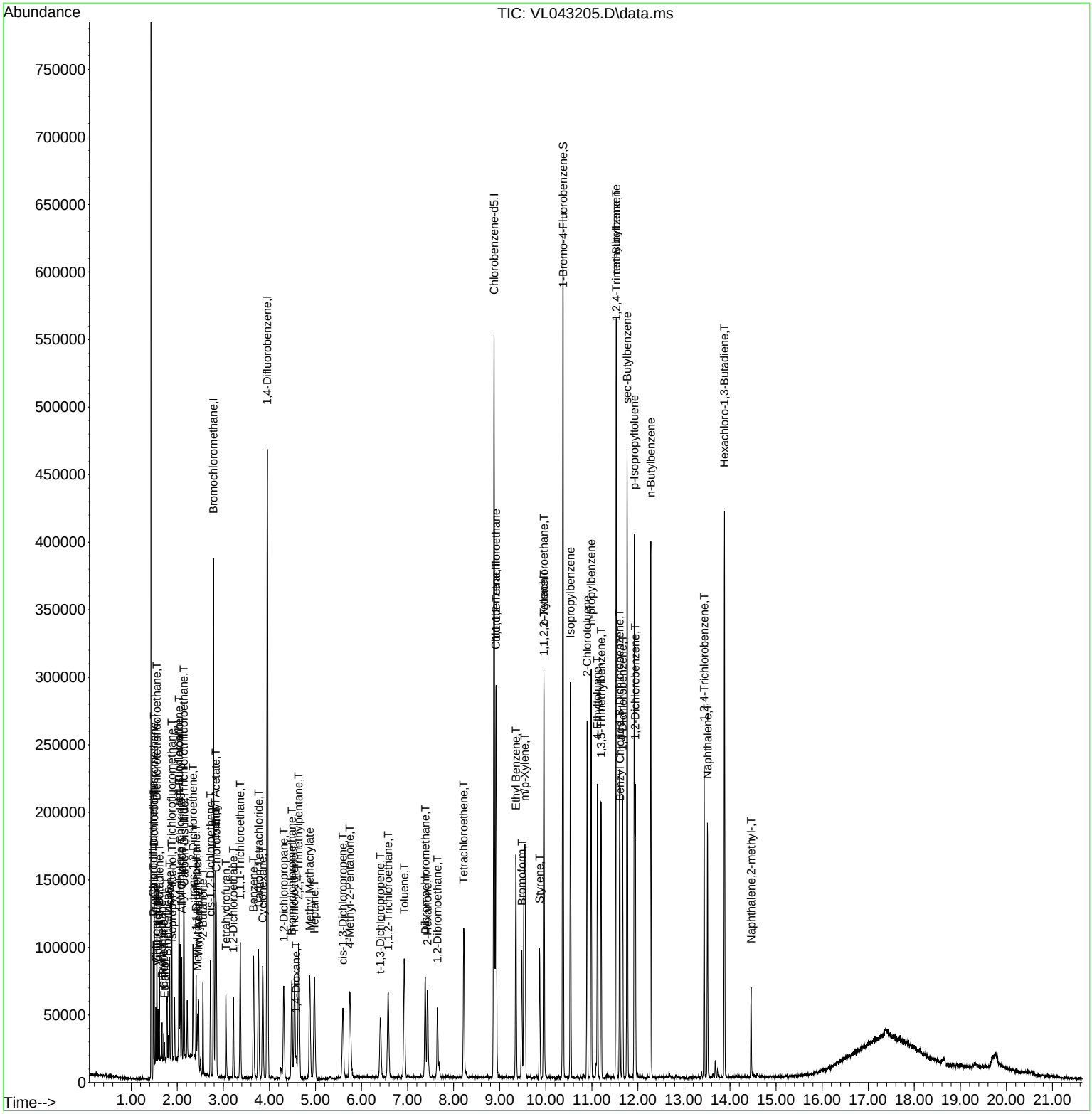
(#) = qualifier out of range (m) = manual integration (+) = signals summed

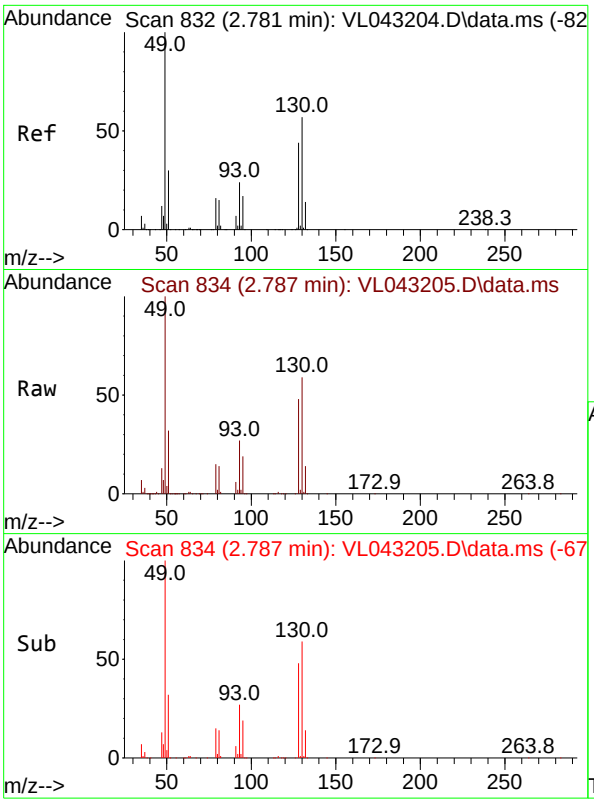
Quantitation Report (Not Reviewed)

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



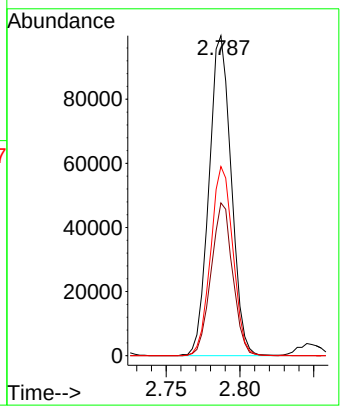


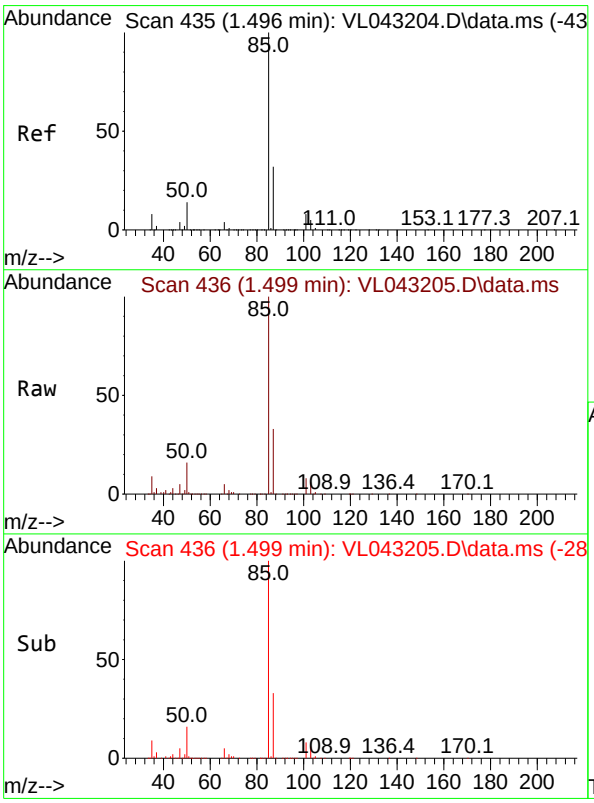
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

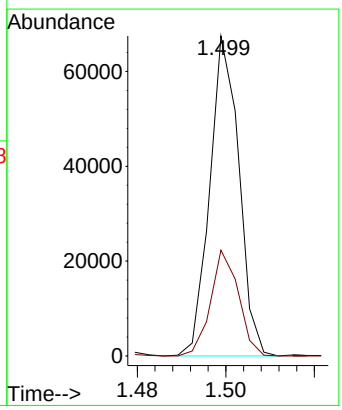


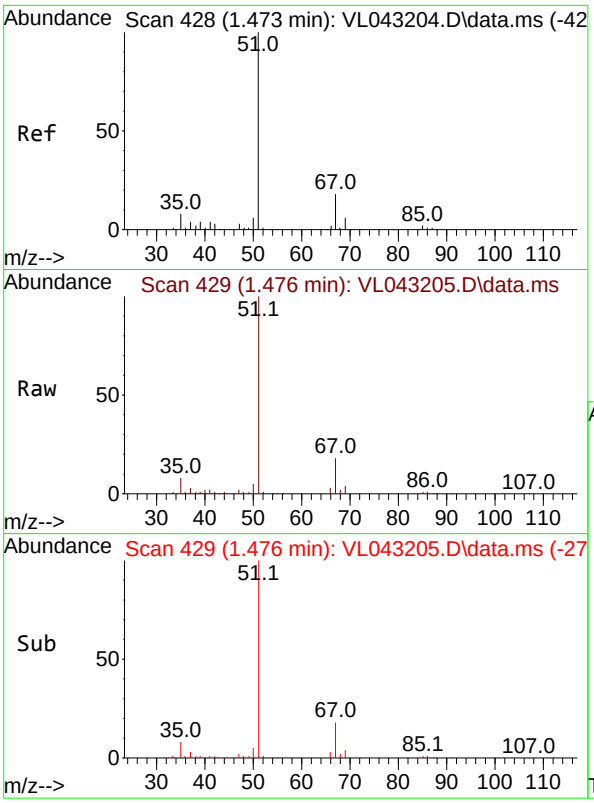


#2
Dichlorodifluoromethane
Concen: 2.092 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 85 Resp: 30881

Ion	Ratio	Lower	Upper
85	100		
87	33.1	25.4	38.2



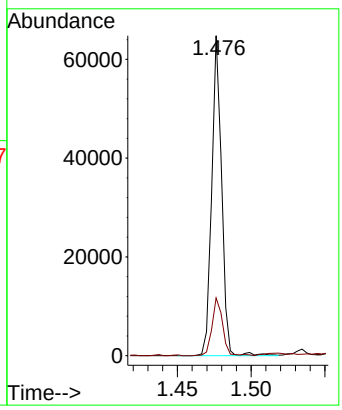


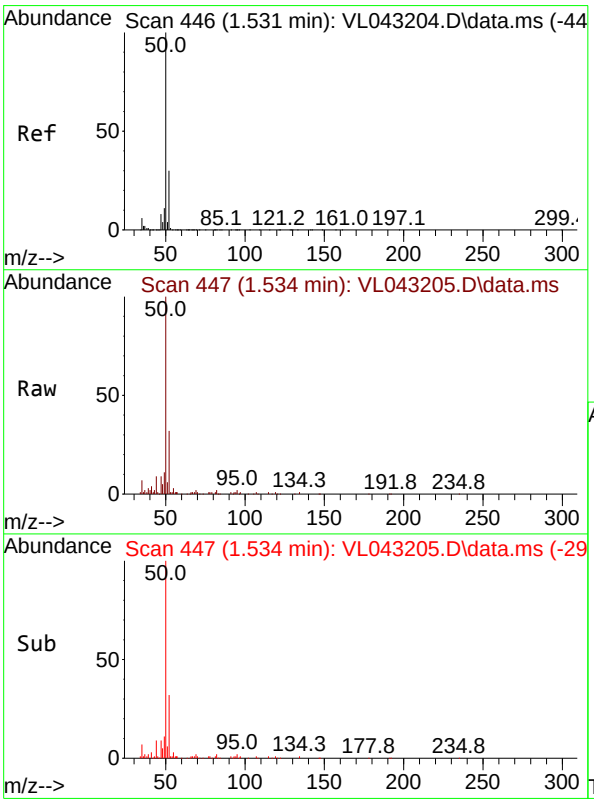
#3
Chlorodifluoromethane
Concen: 2.072 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 30069

Ion	Ratio	Lower	Upper
51	100		
67	19.4	14.9	22.3

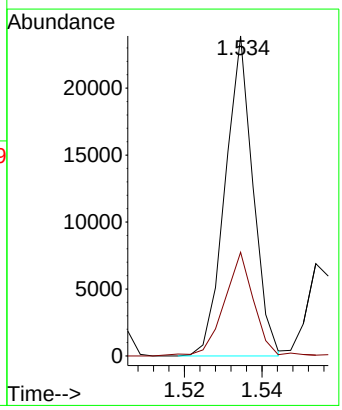


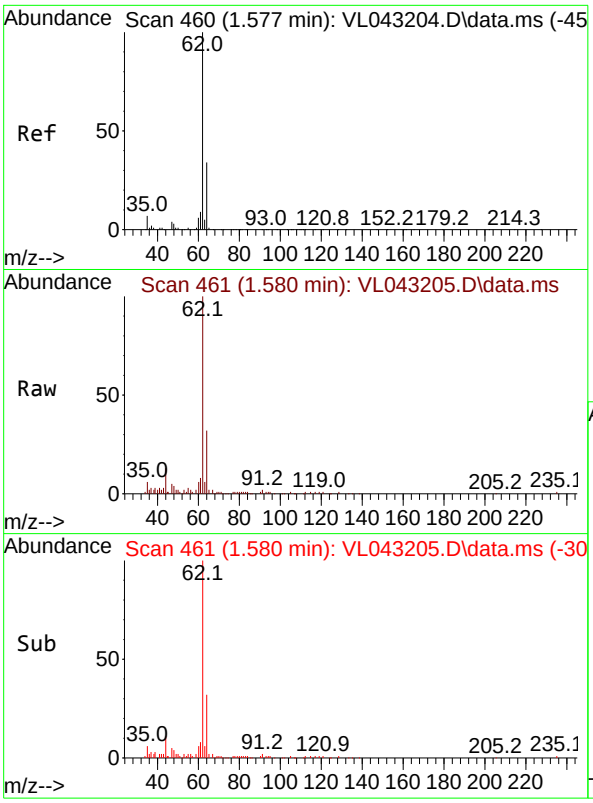


#4
Chloromethane
Concen: 2.155 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 50 Resp: 11890

Ion	Ratio	Lower	Upper
50	100		
52	32.0	24.1	36.1



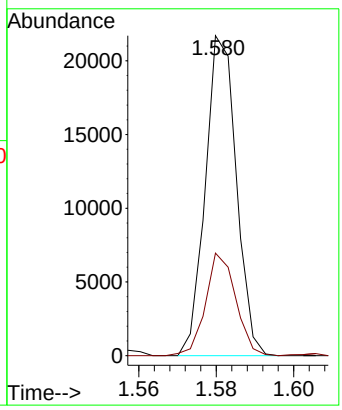


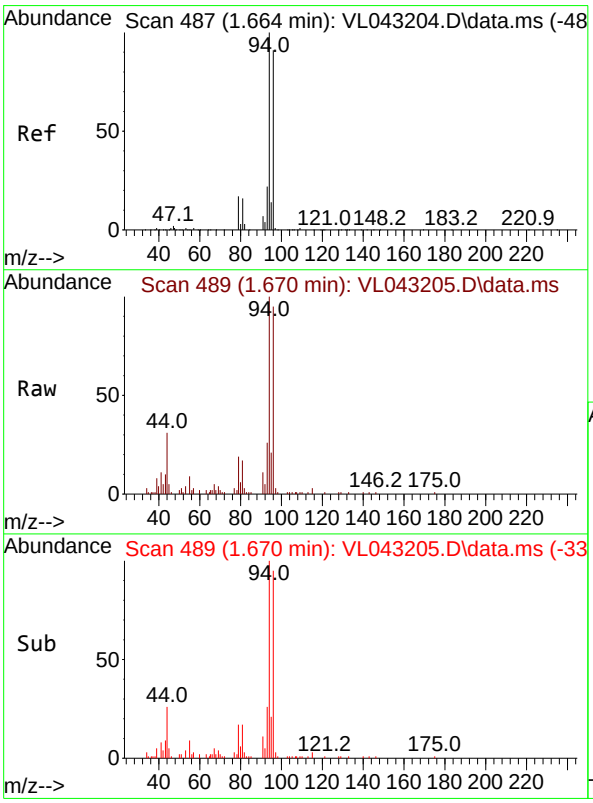
#5
Vinyl Chloride
Concen: 1.995 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 12040

Ion	Ratio	Lower	Upper
62	100		
64	32.1	27.3	40.9

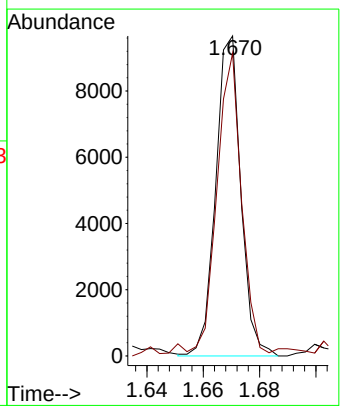


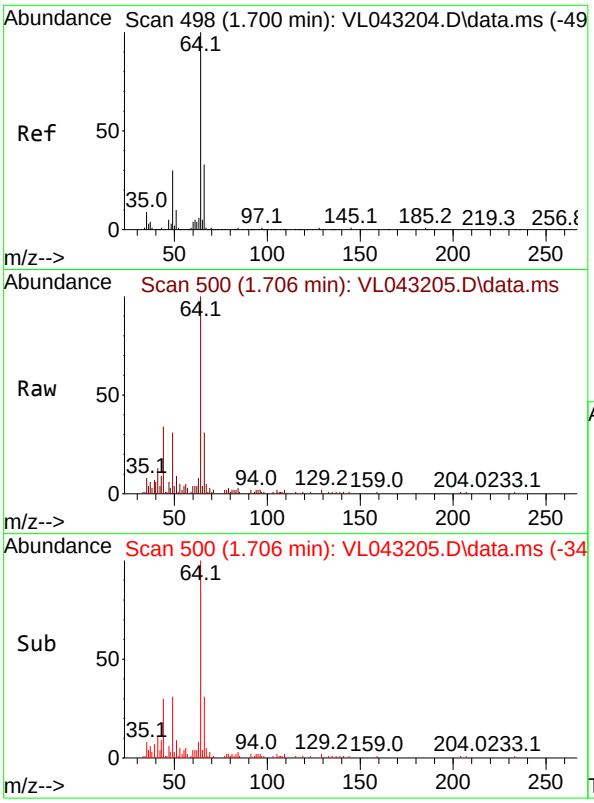


#6
Bromomethane
Concen: 2.044 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 94 Resp: 5981

Ion	Ratio	Lower	Upper
94	100		
96	92.4	72.9	109.3



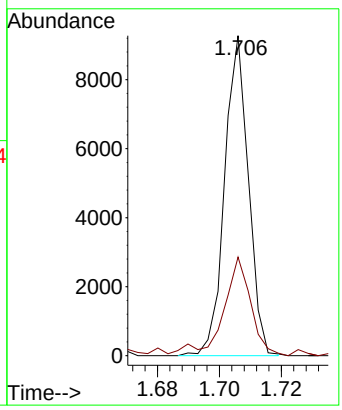


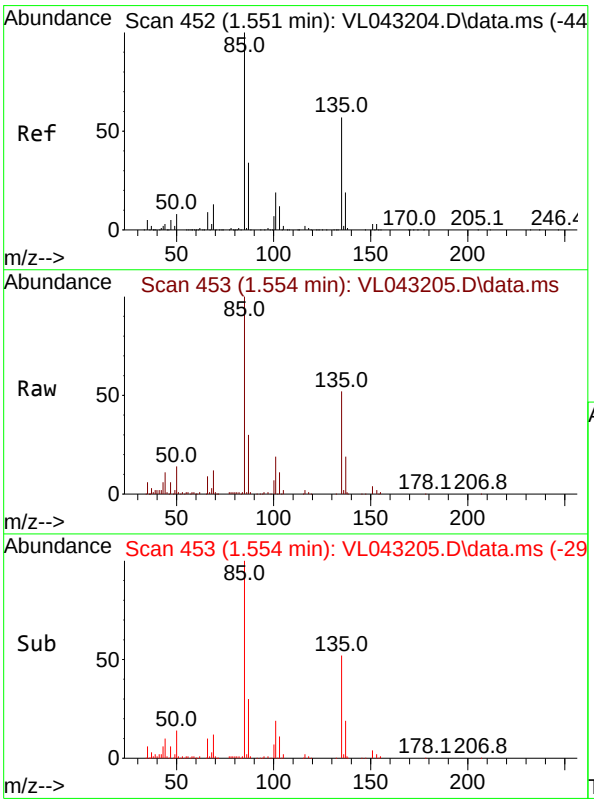
#7
Chloroethane
Concen: 2.103 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 64 Resp: 4943

Ion	Ratio	Lower	Upper
64	100		
66	30.8	26.8	40.2

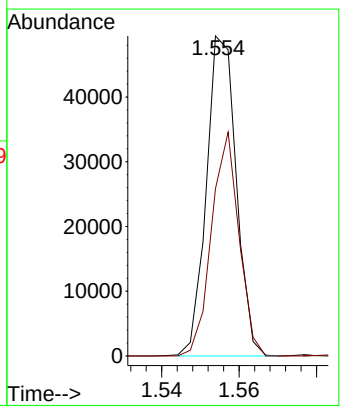


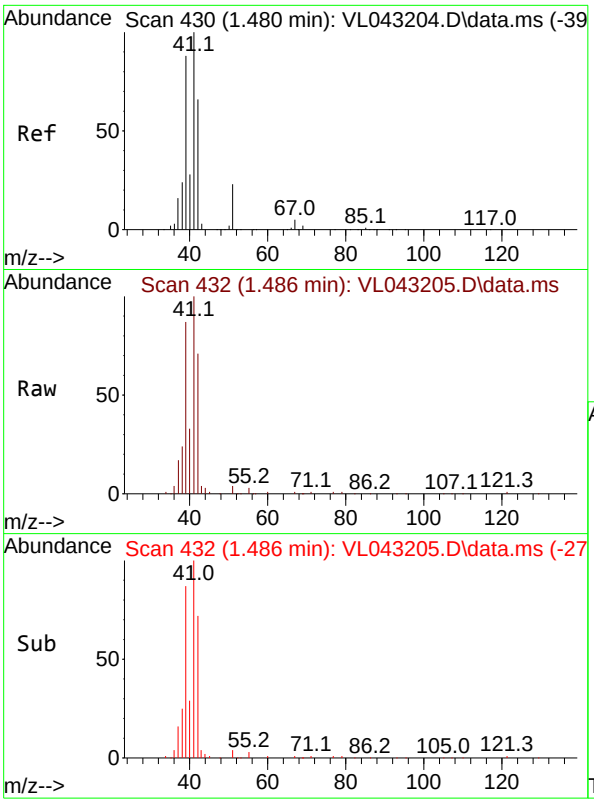


#8
Dichlorotetrafluoroethane
Concen: 2.151 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 85 Resp: 26409

Ion	Ratio	Lower	Upper
85	100		
135	64.3	52.6	79.0



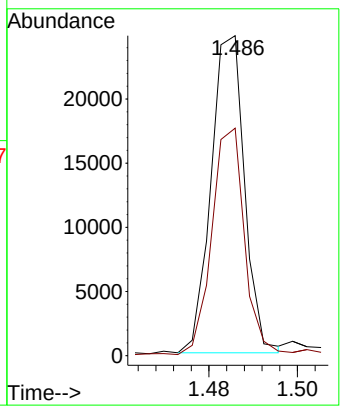


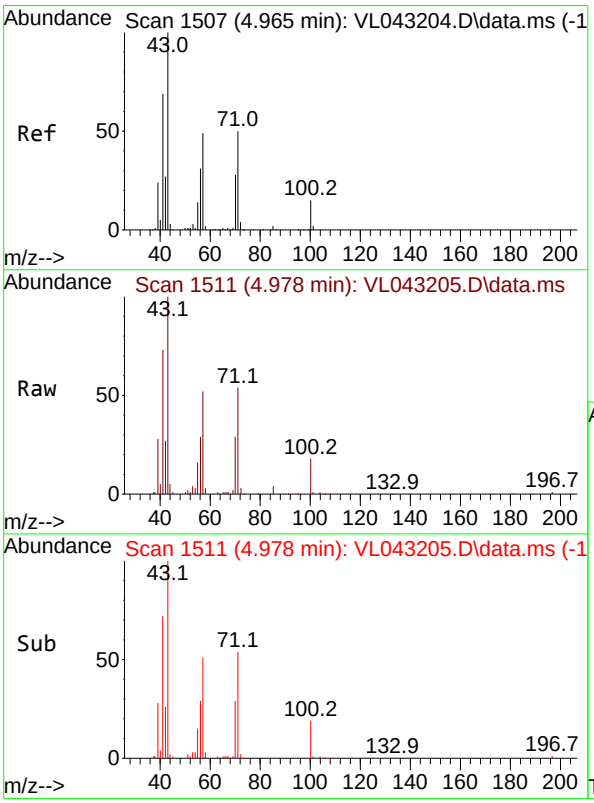
#9
Propene
Concen: 1.930 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 12993

Ion	Ratio	Lower	Upper
41	100		
42	75.1	3.7	5.5#

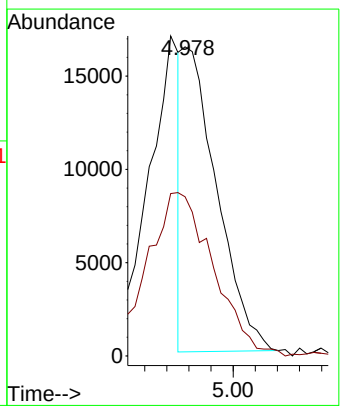


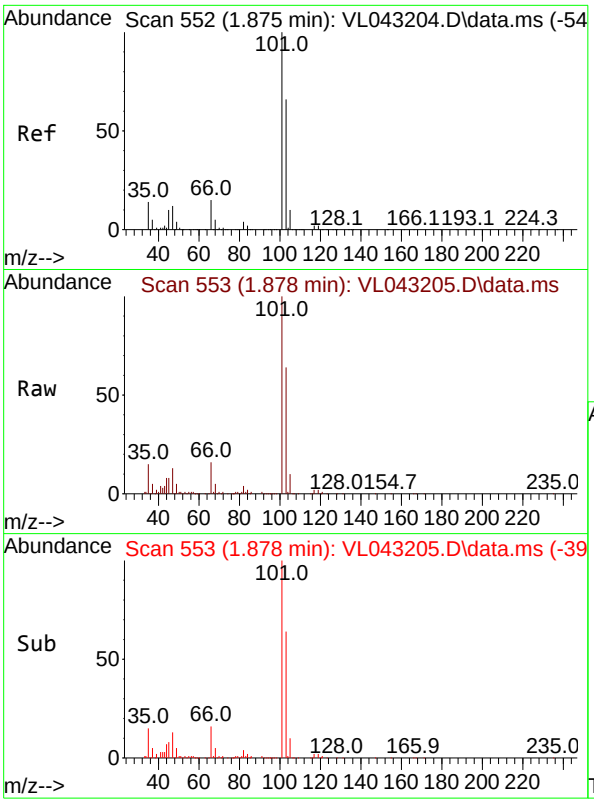


#10
Heptane
Concen: 0.958 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 17701

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#



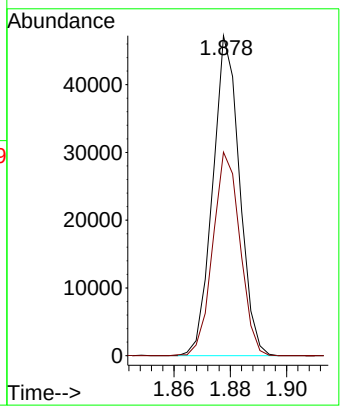


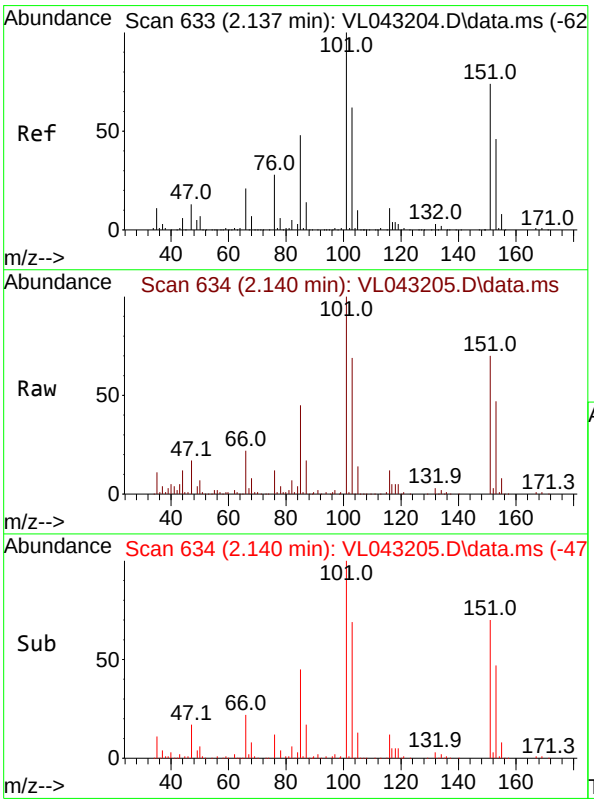
#11
Trichlorofluoromethane
Concen: 2.177 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:101 Resp: 31124

Ion	Ratio	Lower	Upper
101	100		
103	63.6	52.6	79.0

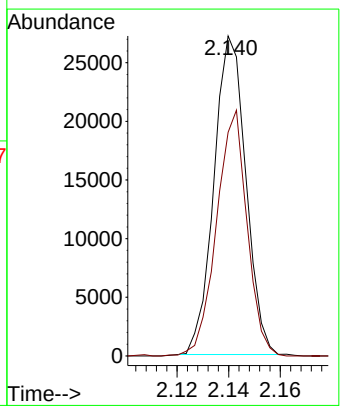


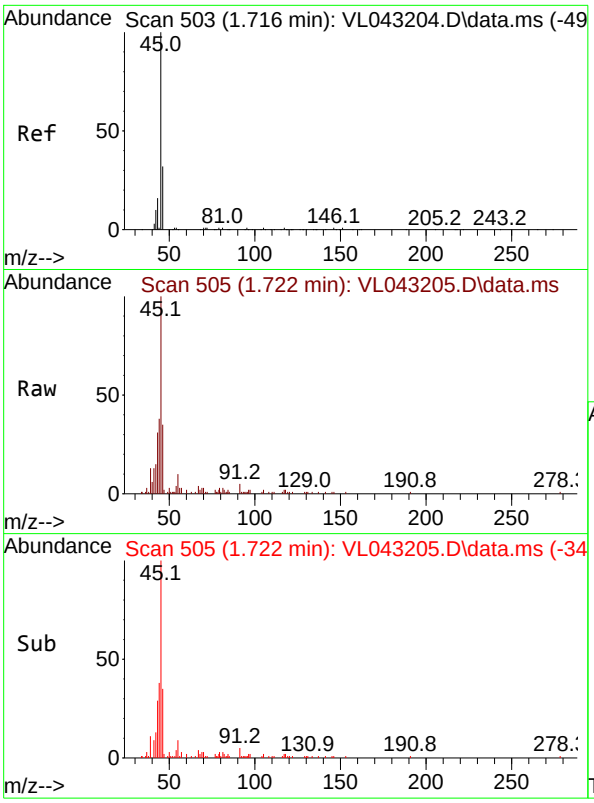


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.090 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:101 Resp: 23336

Ion	Ratio	Lower	Upper
101	100		
151	73.8	59.2	88.8



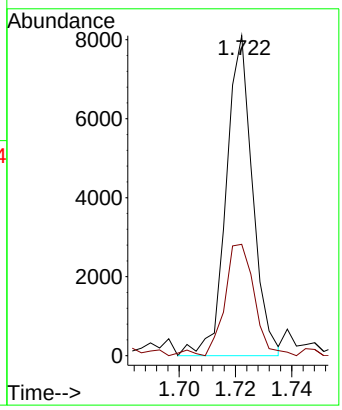


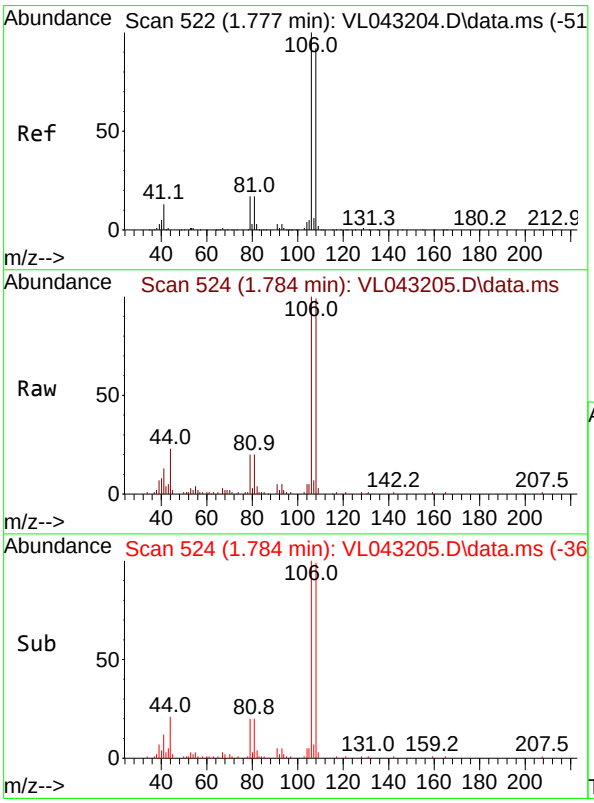
#13
Ethanol
Concen: 2.430 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 5266

Ion	Ratio	Lower	Upper
45	100		
46	45.7	15.0	59.8

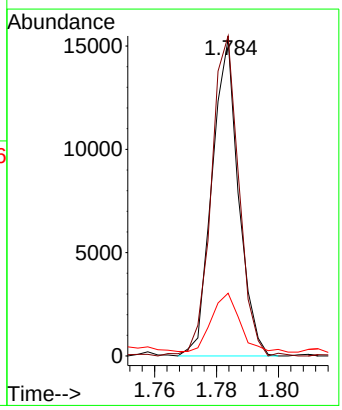


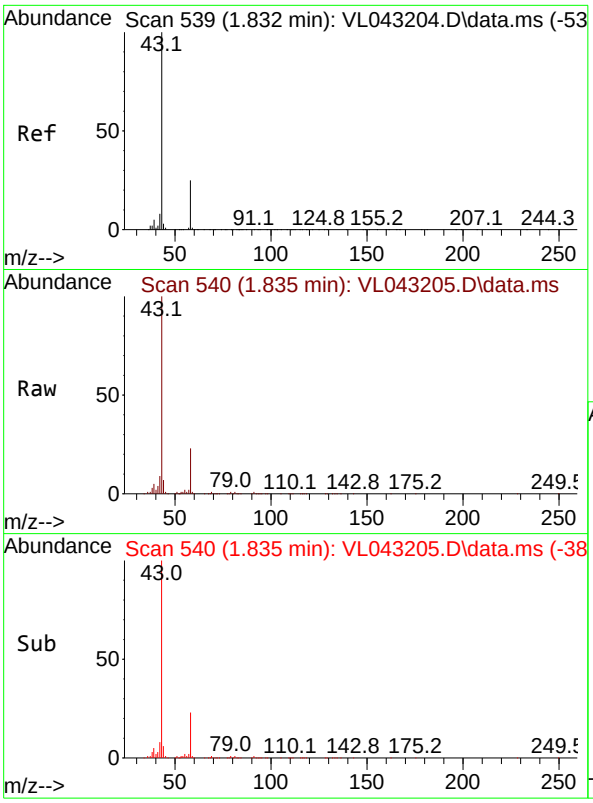


#14
Bromoethene
Concen: 2.133 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



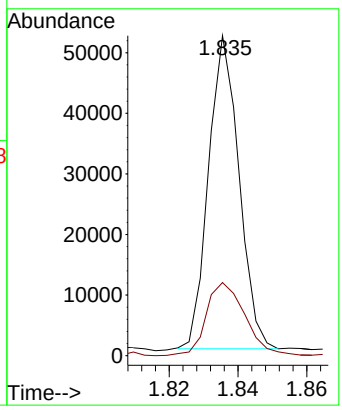


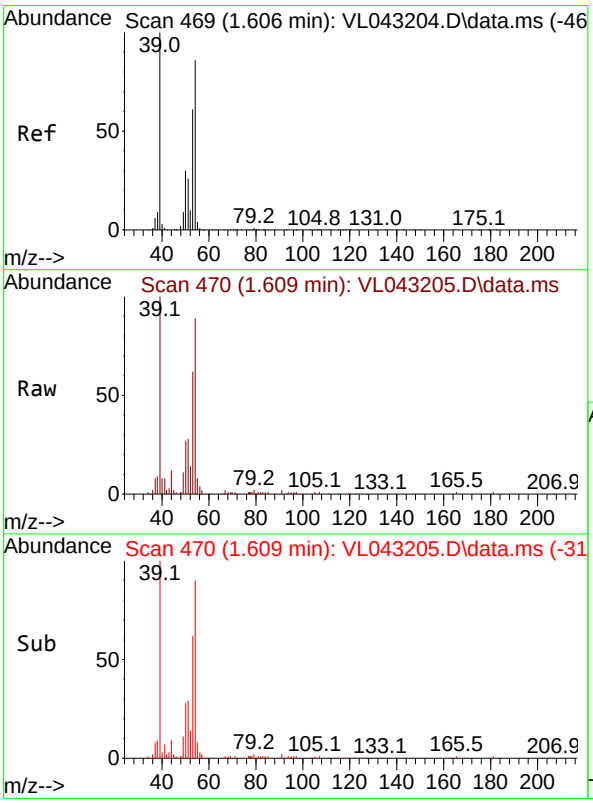
#15
Acetone
Concen: 2.186 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 31785

Ion	Ratio	Lower	Upper
43	100		
58	30.6	20.7	31.1

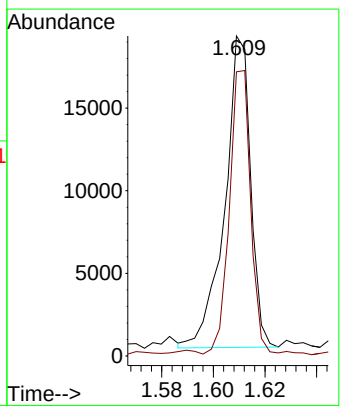


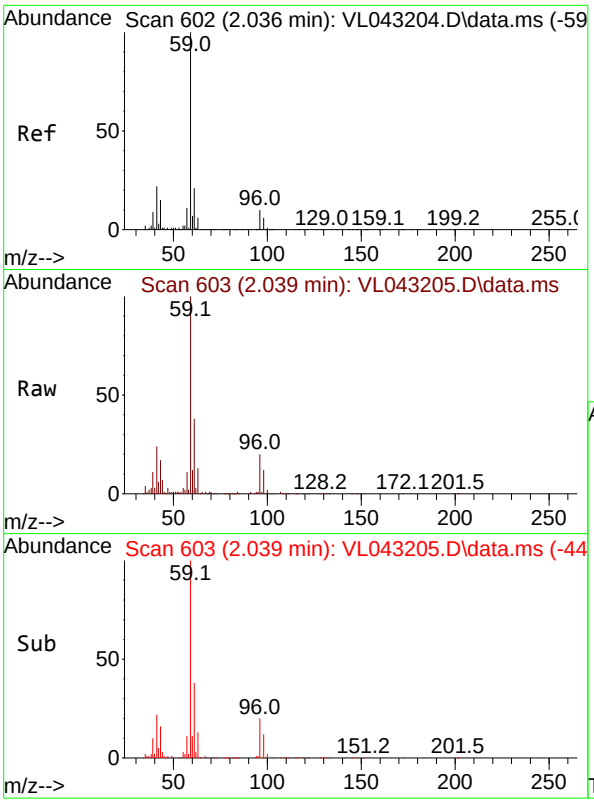


#16
1,3-Butadiene
Concen: 2.021 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 39 Resp: 13101

Ion	Ratio	Lower	Upper
39	100		
54	83.3	59.4	89.2



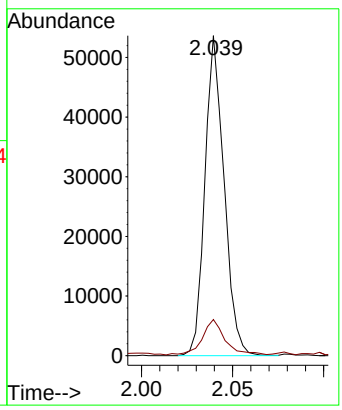


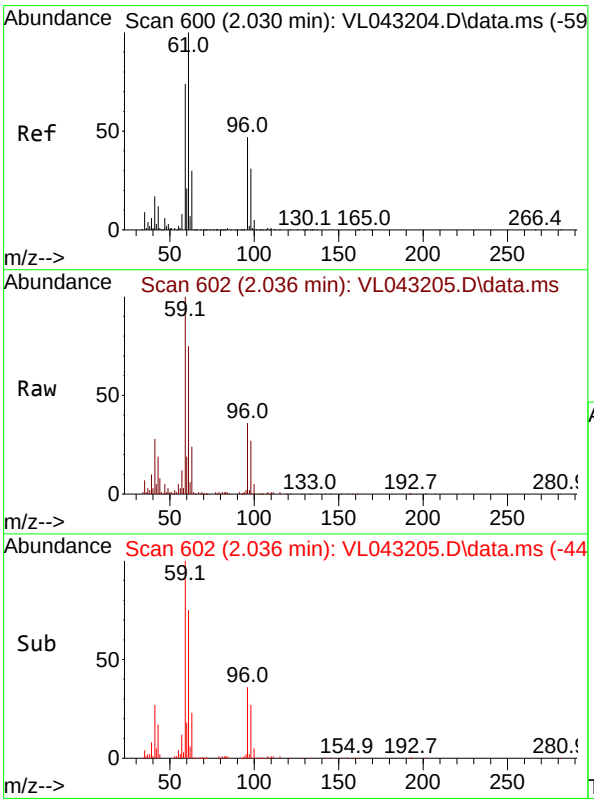
#17
tert-Butyl alcohol
Concen: 2.062 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 59 Resp: 39348

Ion	Ratio	Lower	Upper
59	100		
57	13.3	9.0	13.4

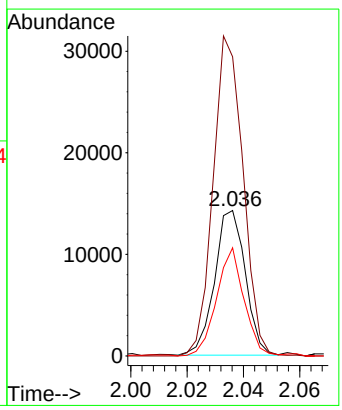


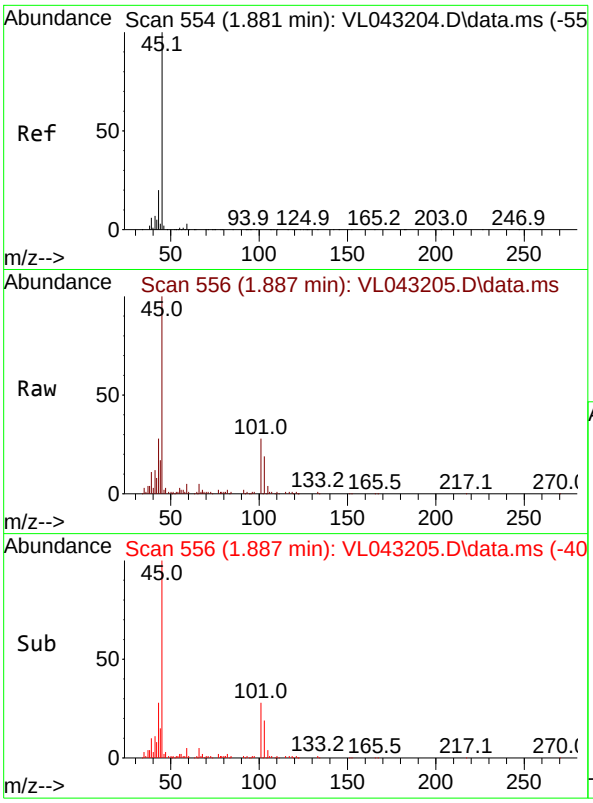


#18
1,1-Dichloroethene
Concen: 2.074 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



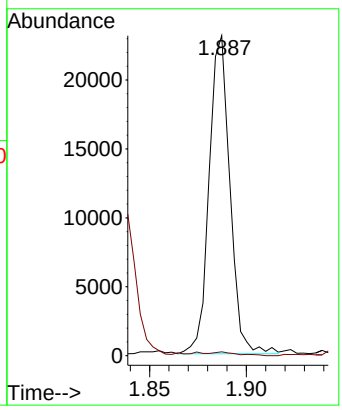


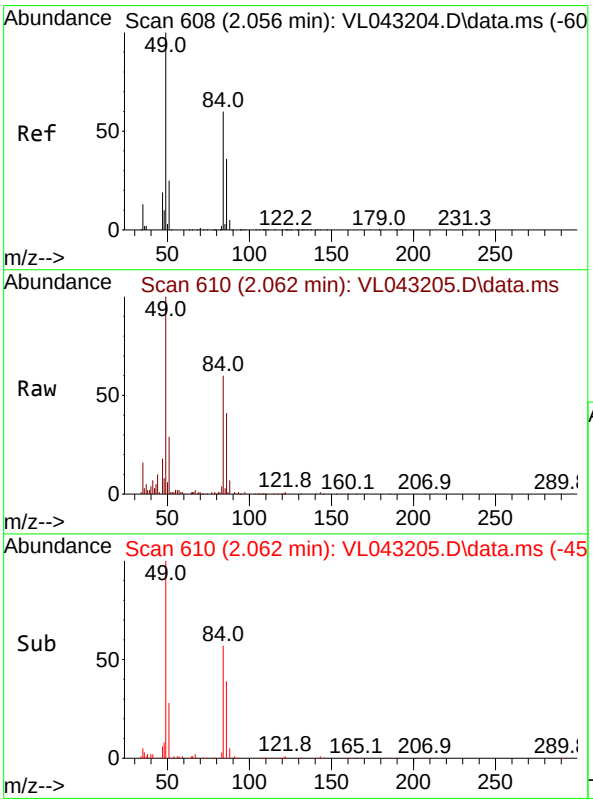
#19
Isopropyl Alcohol
Concen: 2.097 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 17229

Ion	Ratio	Lower	Upper
45	100		
58	56.6	31.3	46.9#

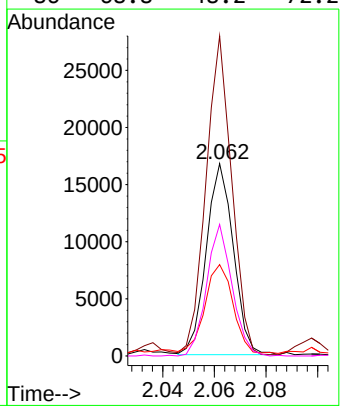


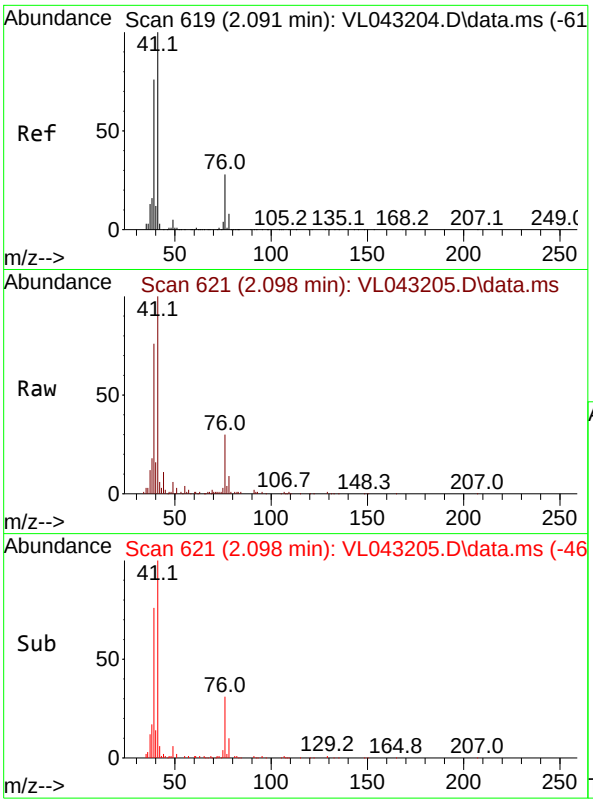


#20
Methylene Chloride
Concen: 2.248 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



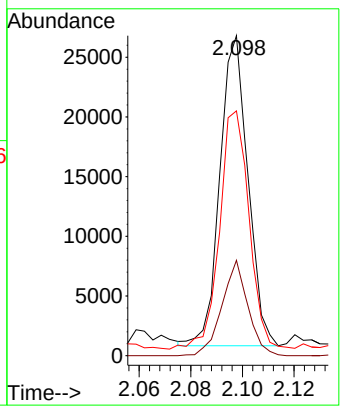


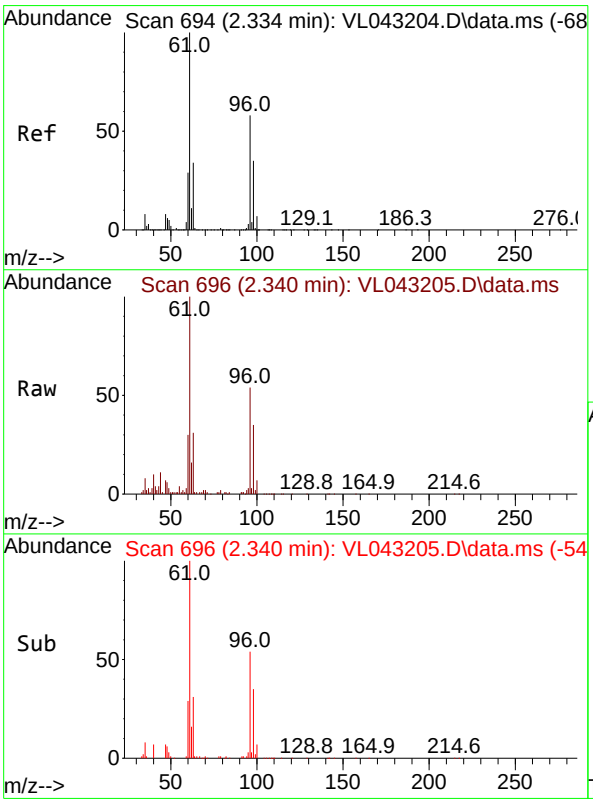
#21
Allyl Chloride
Concen: 2.002 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

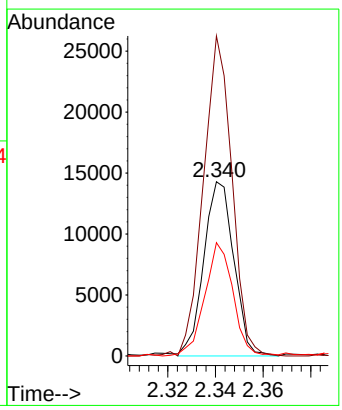


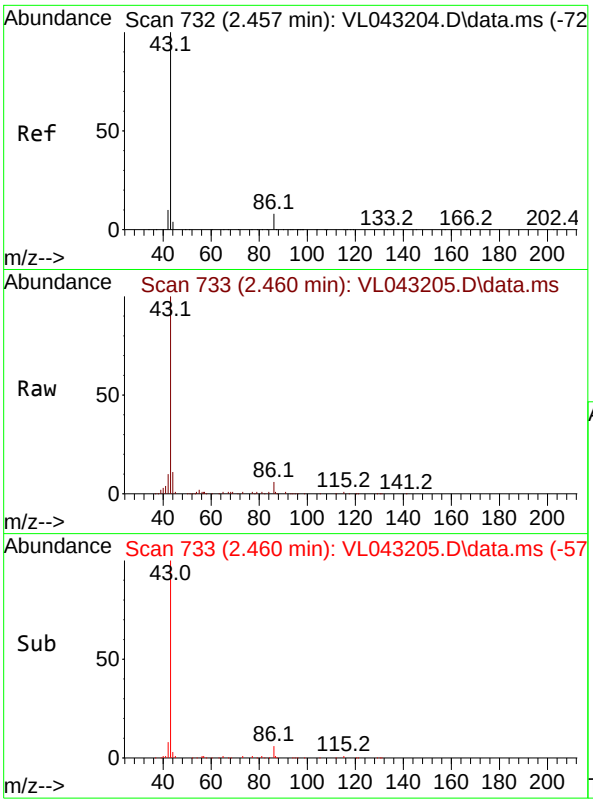


#22
trans-1,2-Dichloroethene
Concen: 2.110 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



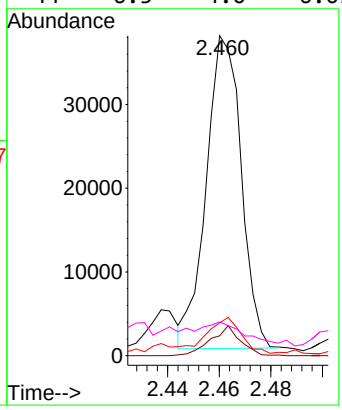


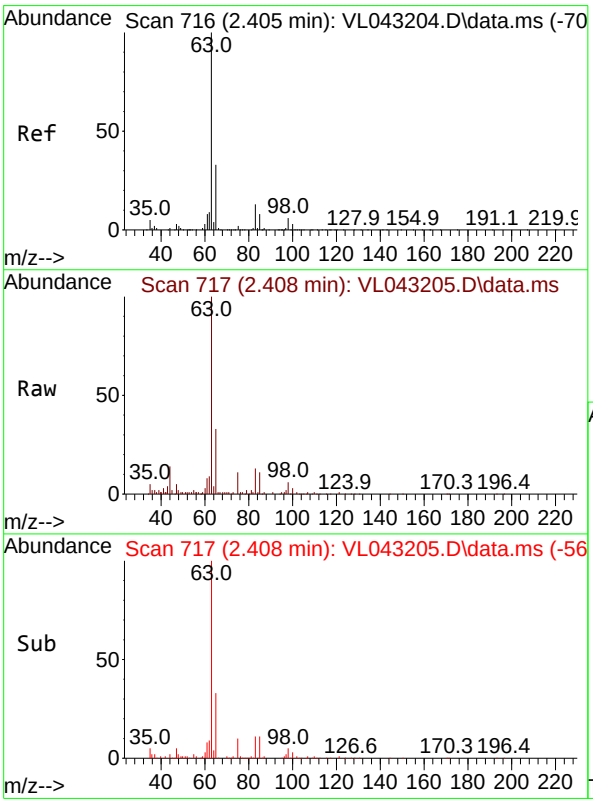
#23
Vinyl Acetate
Concen: 2.006 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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#

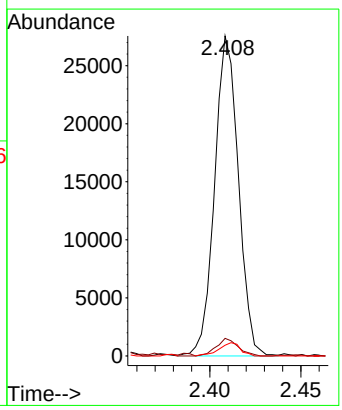


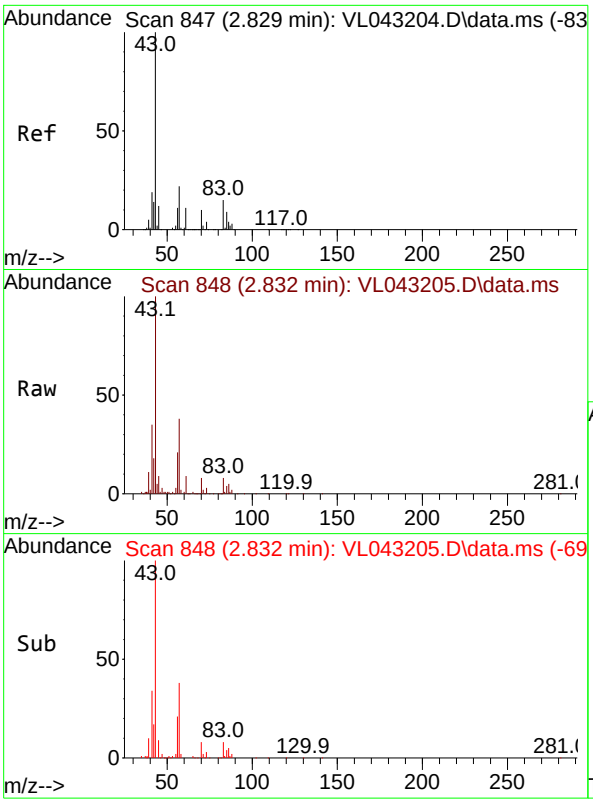


#24
1,1-Dichloroethane
Concen: 2.179 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



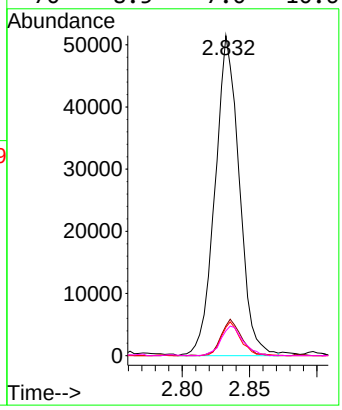


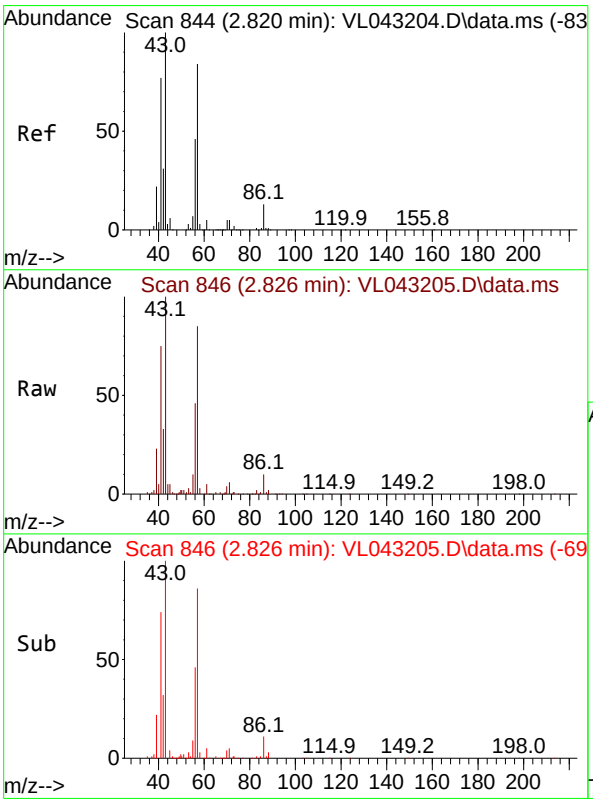
#25
Ethyl Acetate
Concen: 2.048 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

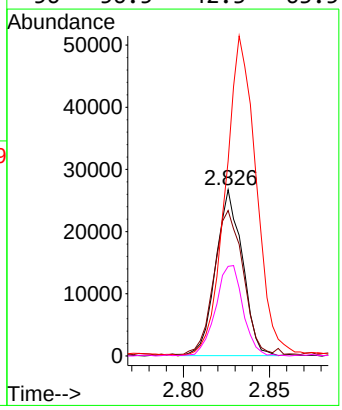


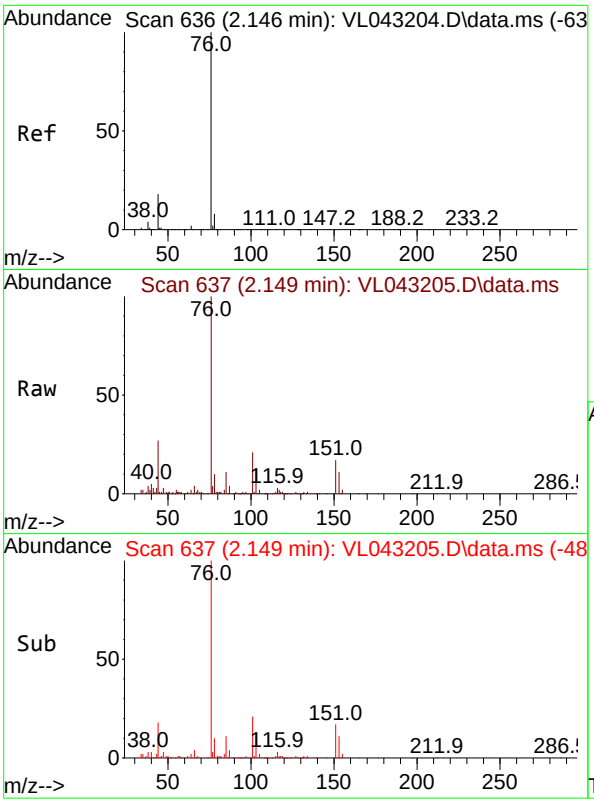


#26
Hexane
Concen: 2.093 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



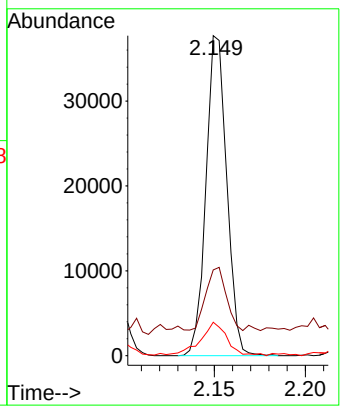


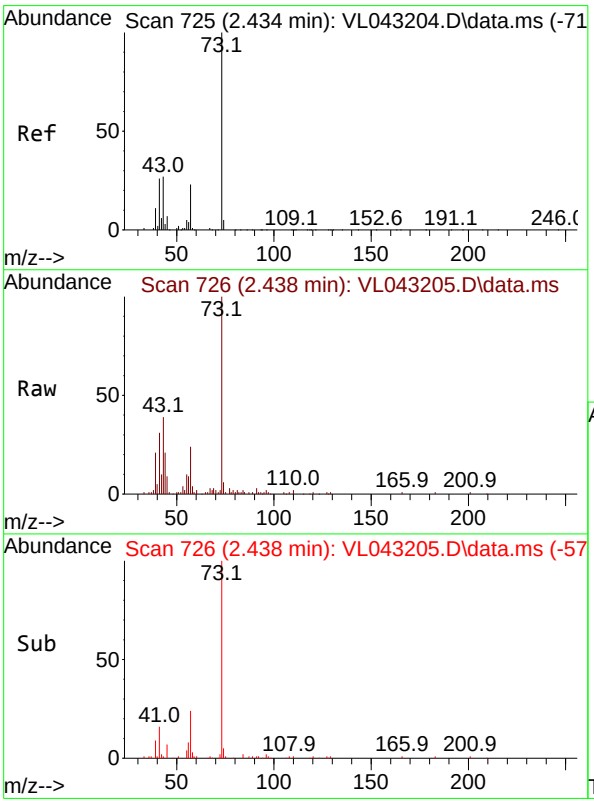
#27
Carbon Disulfide
Concen: 2.135 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

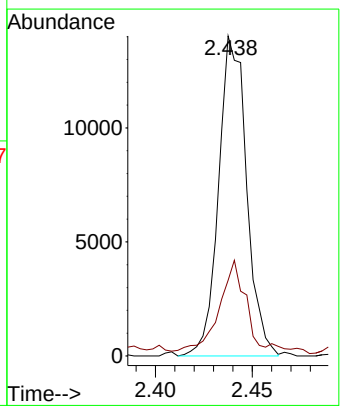


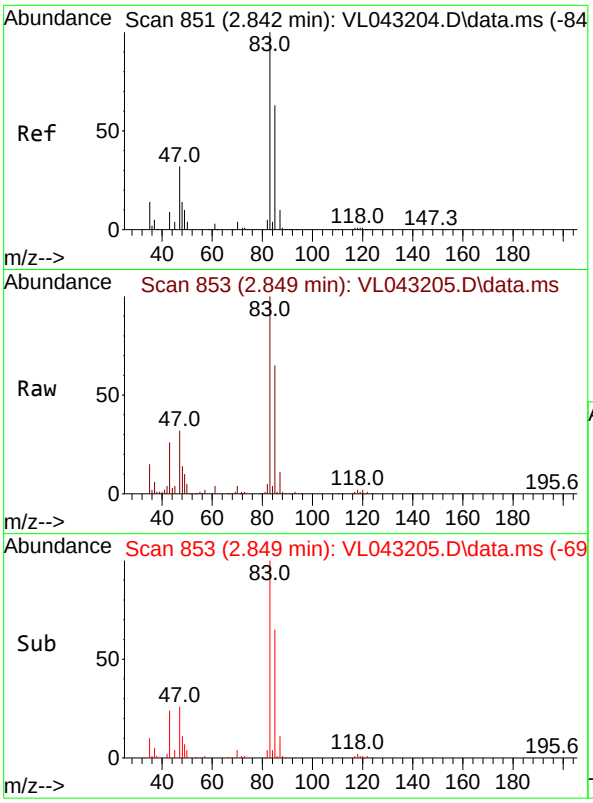


#28
Methyl tert-Butyl Ether
Concen: 2.090 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 73 Resp: 14101

Ion	Ratio	Lower	Upper
73	100		
57	32.5	19.8	29.8#



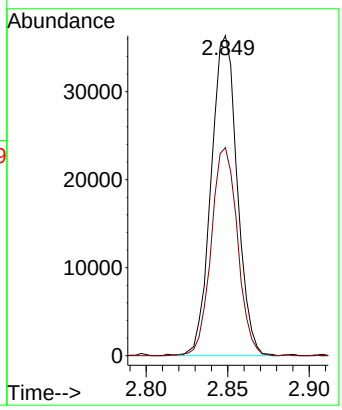


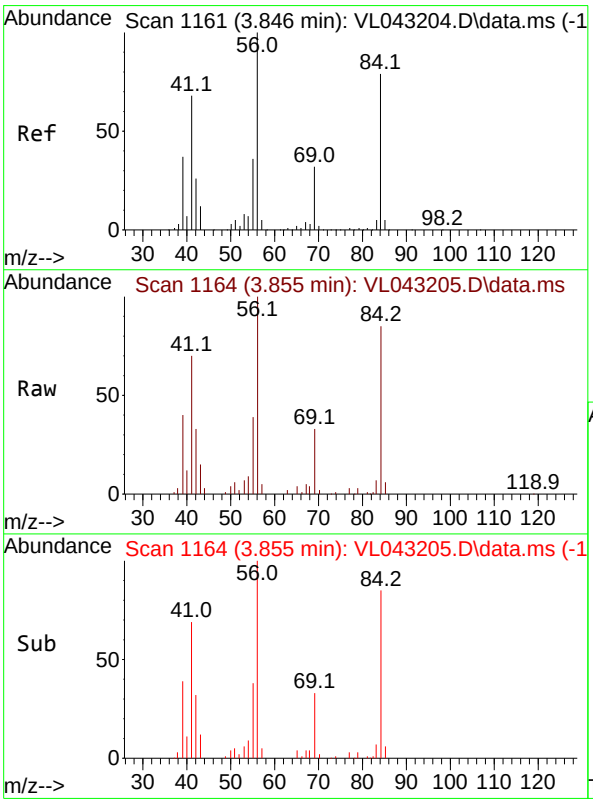
#29
Chloroform
Concen: 2.065 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 40355

Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.5	75.7

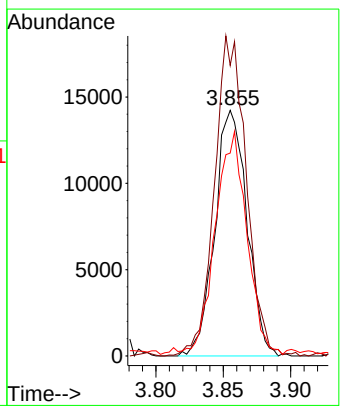


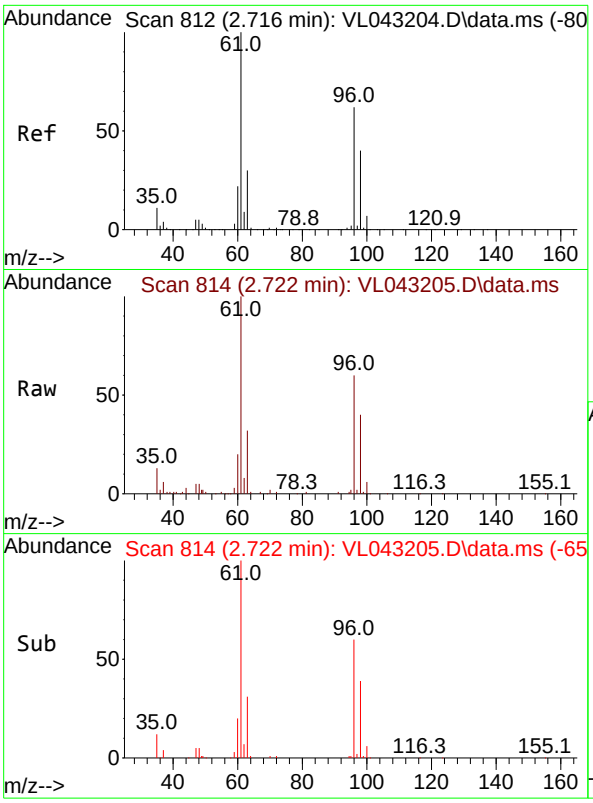


#30
Cyclohexane
Concen: 2.053 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



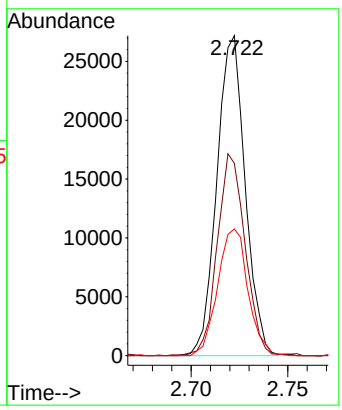


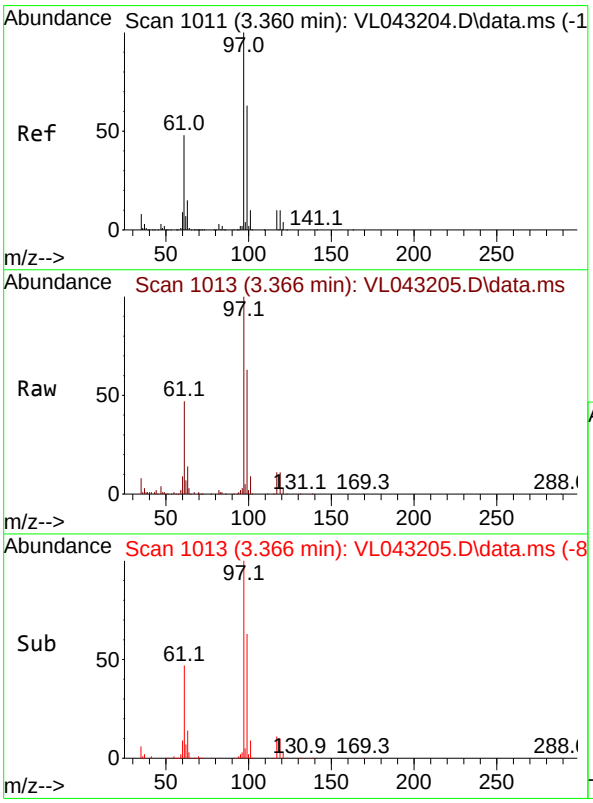
#31
cis-1,2-Dichloroethene
Concen: 2.024 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

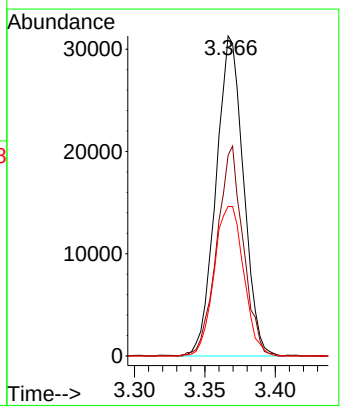


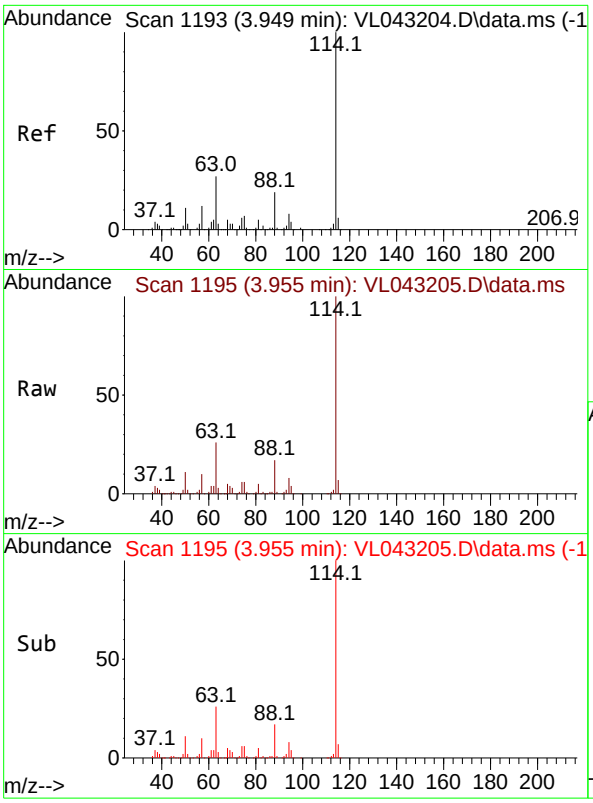


#32
1,1,1-Trichloroethane
Concen: 2.024 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



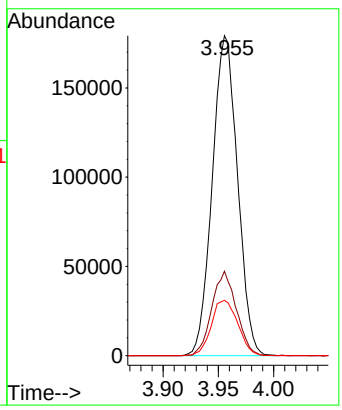


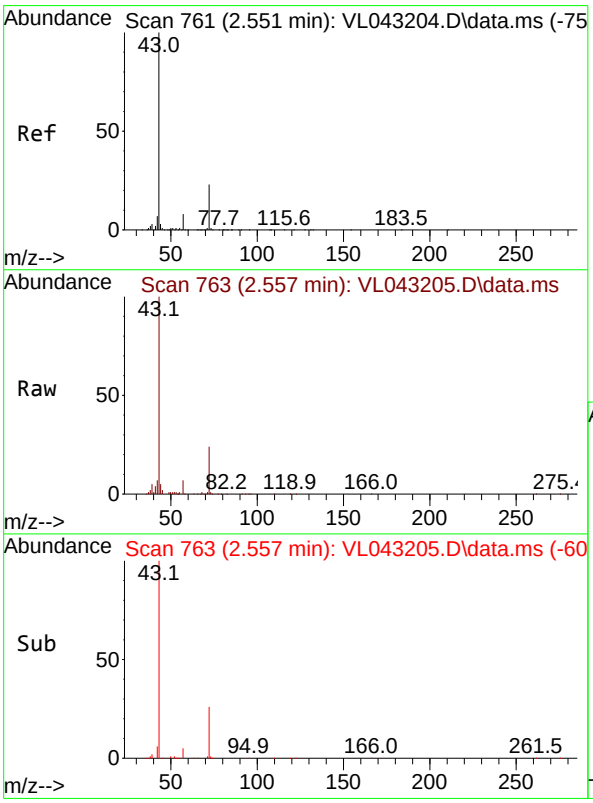
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

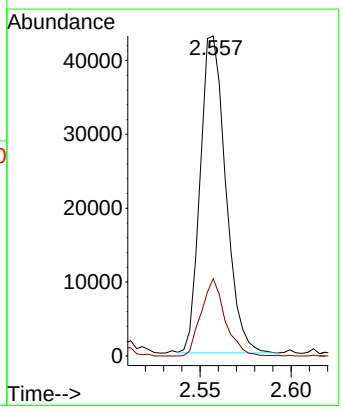


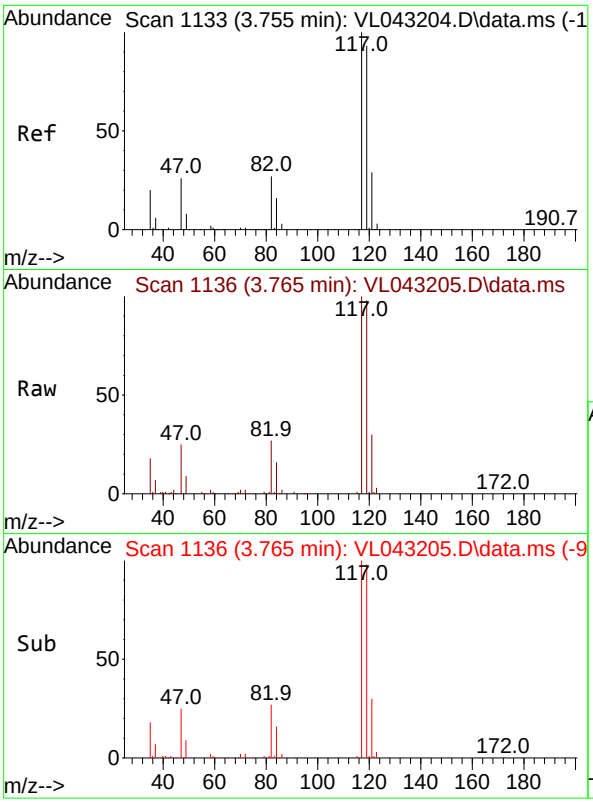


#34
2-Butanone
Concen: 2.085 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 41884

Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.1	27.1



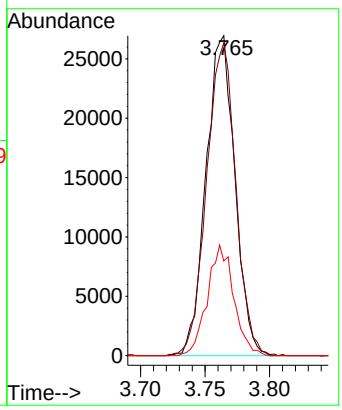


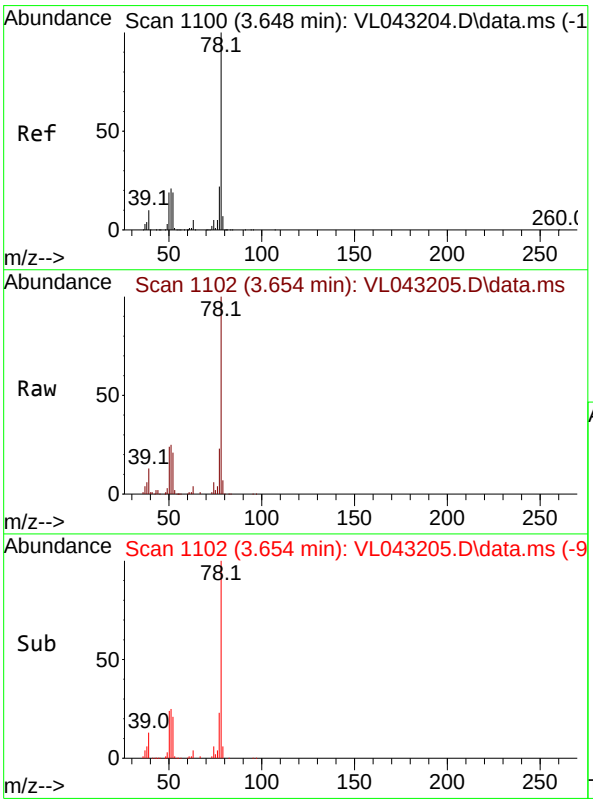
#35
Carbon Tetrachloride
Concen: 1.942 ppbv
RT: 3.765 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

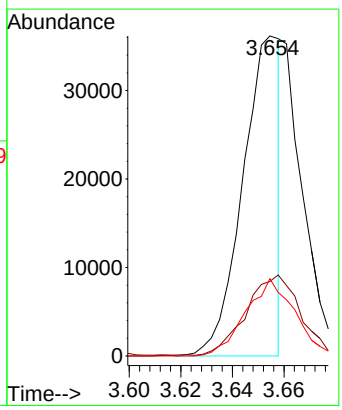


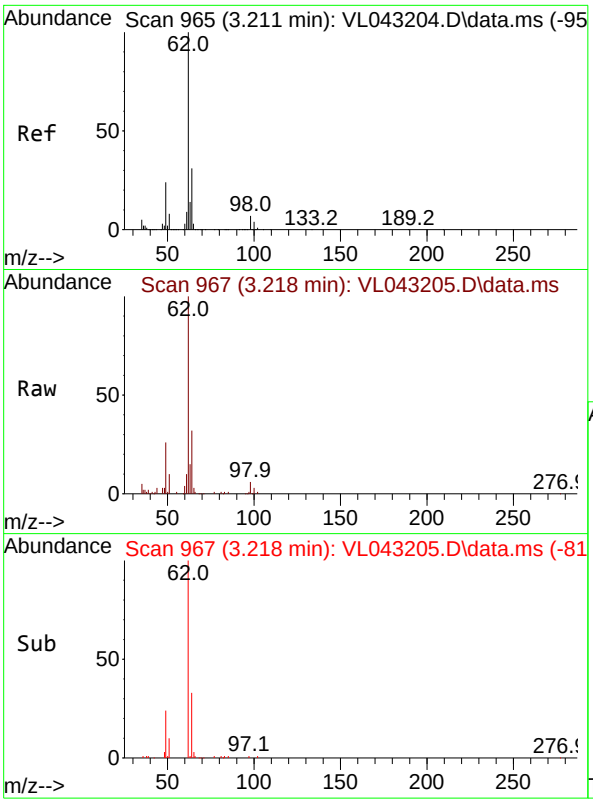


#36
Benzene
Concen: 1.334 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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#



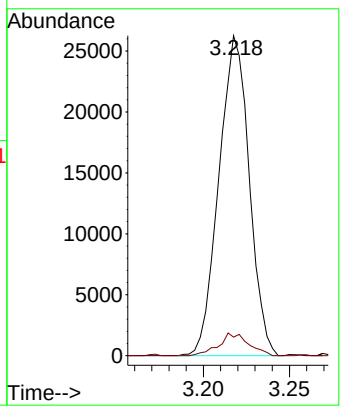


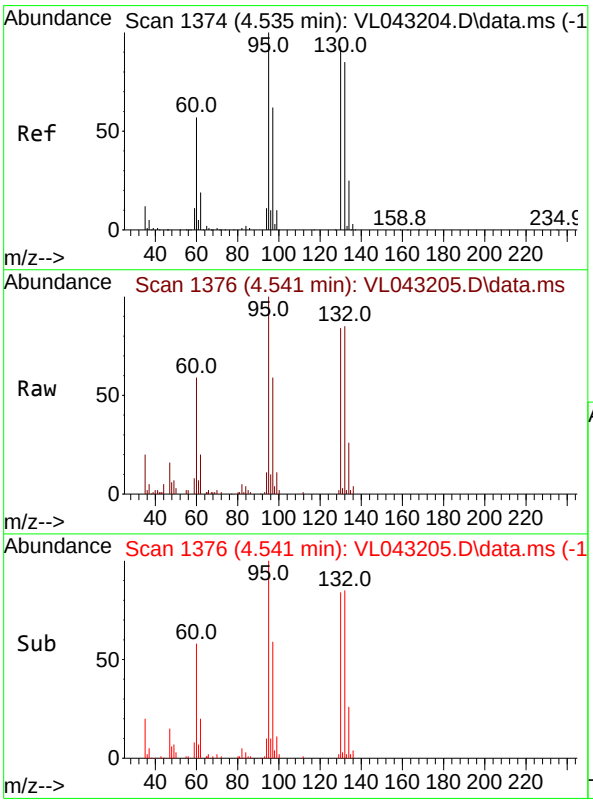
#37
1,2-Dichloroethane
Concen: 2.019 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 32188

Ion	Ratio	Lower	Upper
62	100		
98	7.0	5.5	8.3

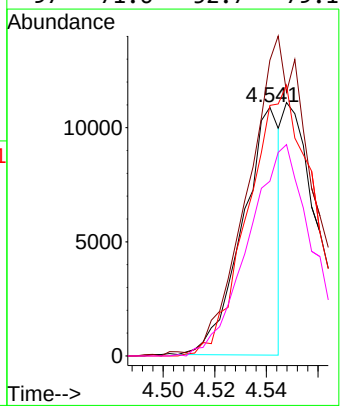


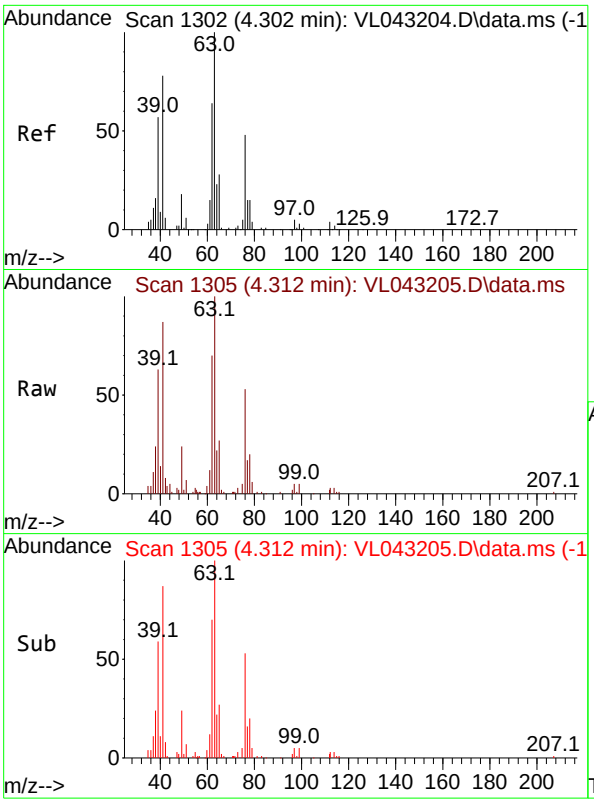


#38
Trichloroethene
Concen: 1.015 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



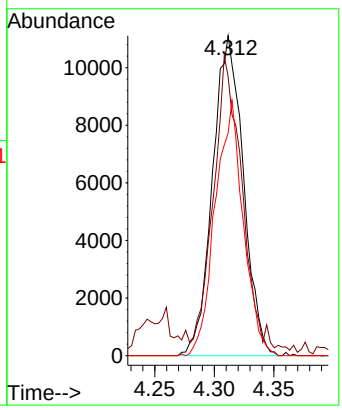


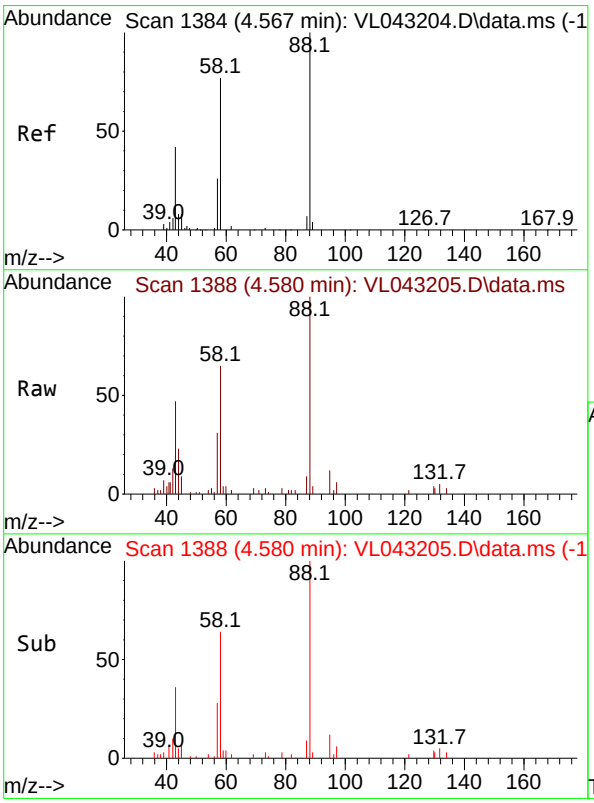
#39
1,2-Dichloropropane
Concen: 1.996 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

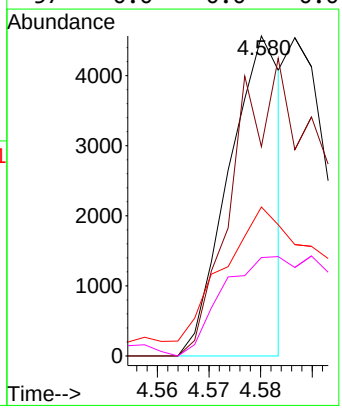


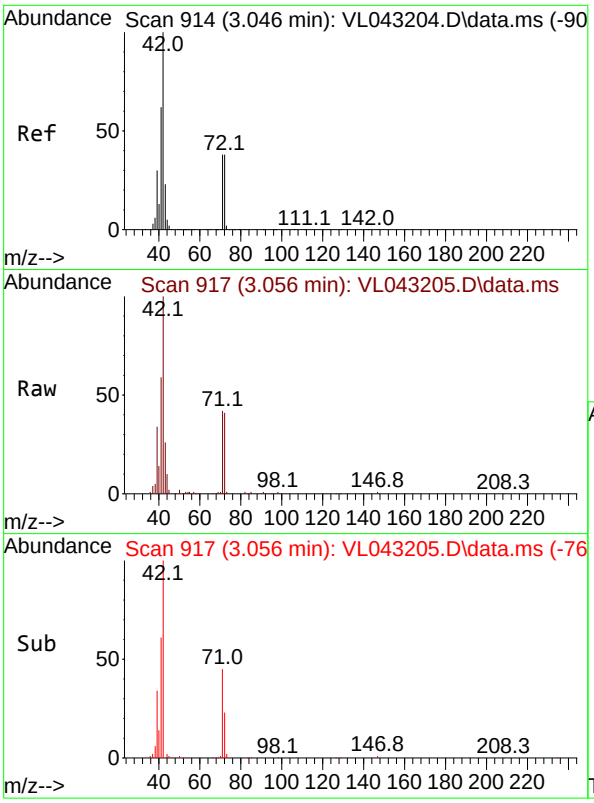


#40
1,4-Dioxane
Concen: 0.721 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



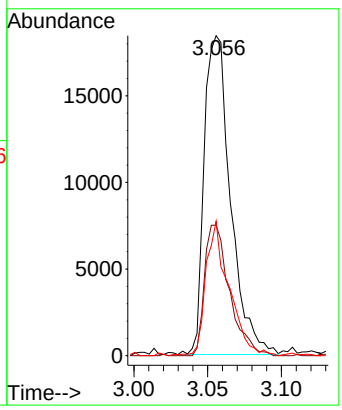


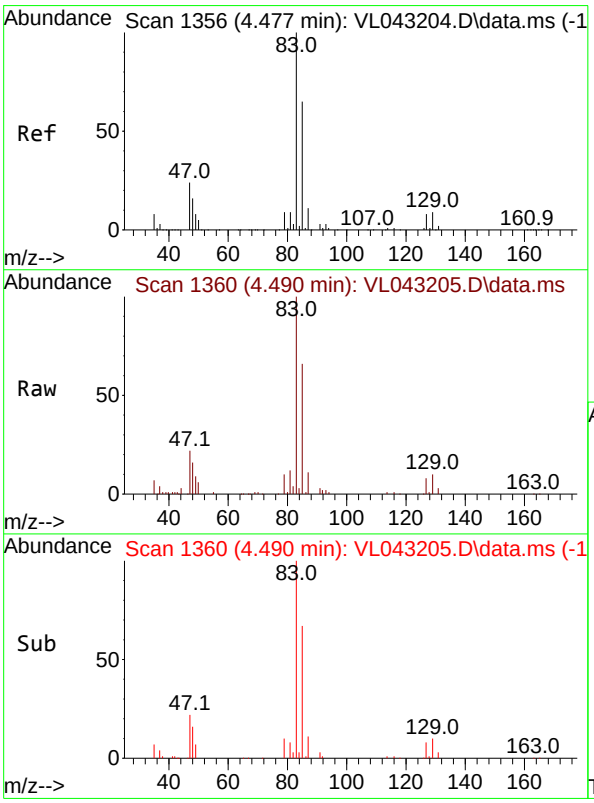
#41
Tetrahydrofuran
Concen: 2.065 ppbv
RT: 3.056 min Scan# 9
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

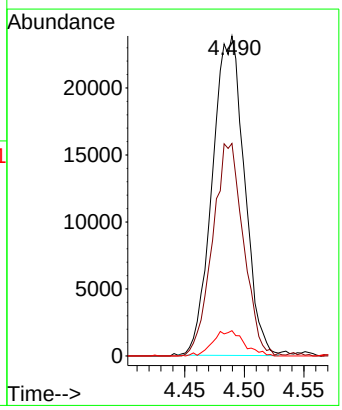


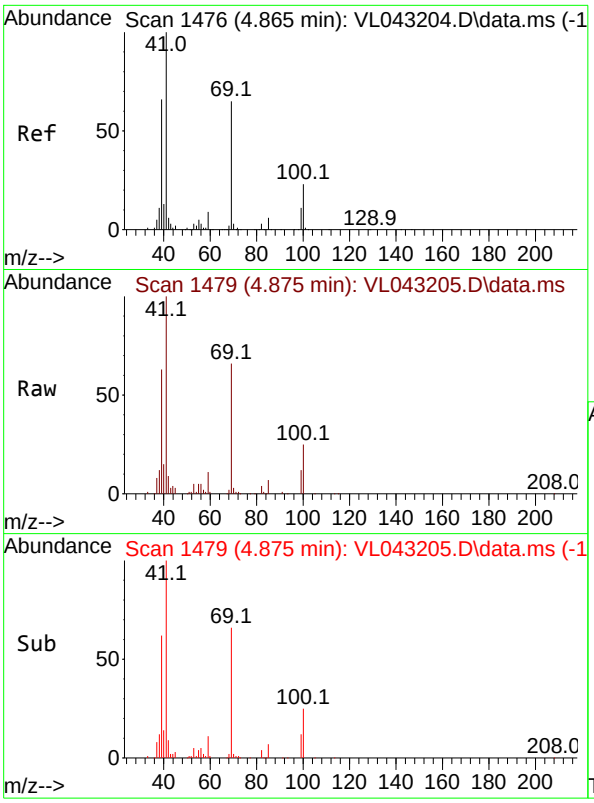


#42
Bromodichloromethane
Concen: 2.027 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



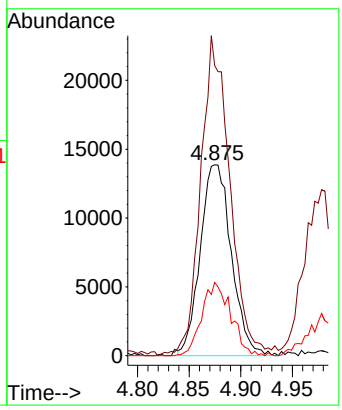


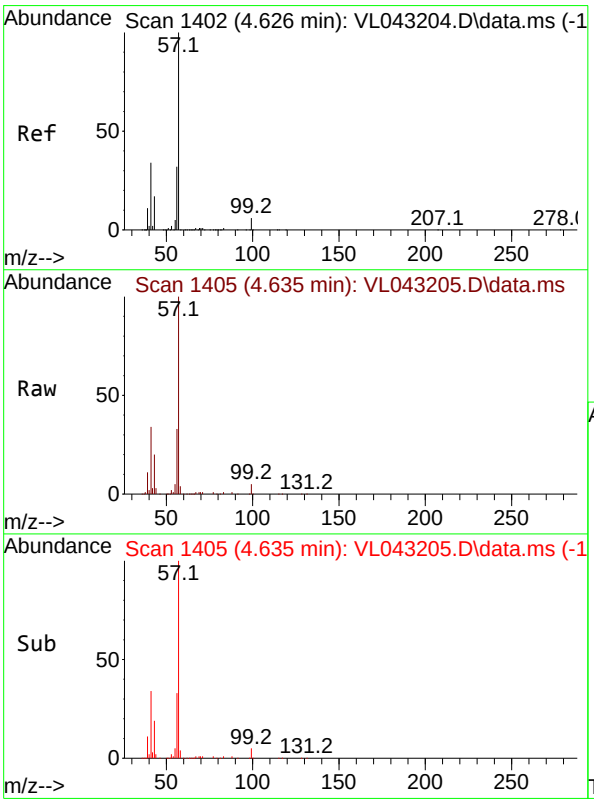
#43
Methyl Methacrylate
Concen: 2.009 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

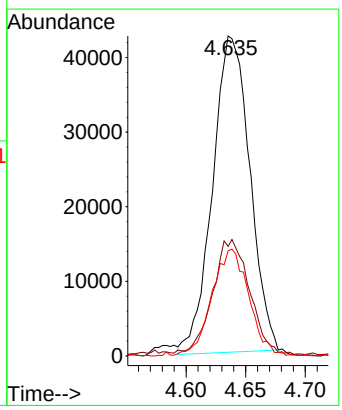


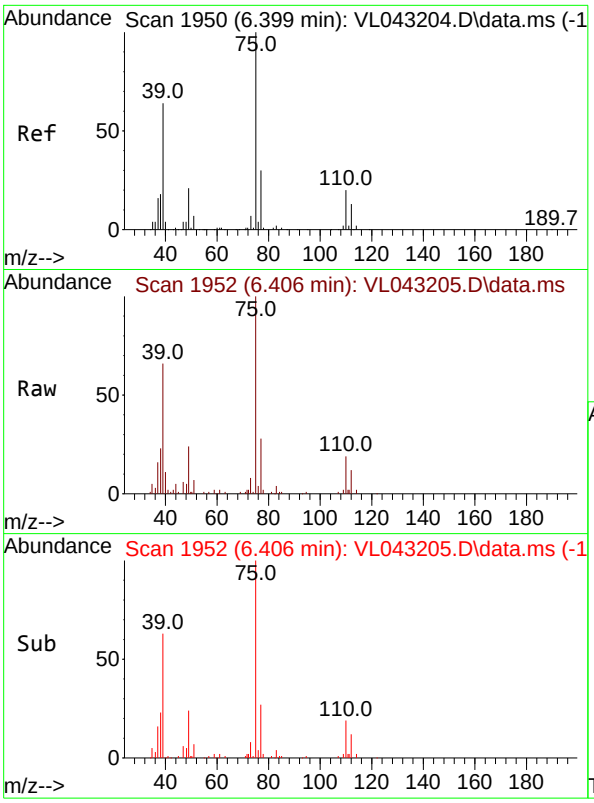


#44
2,2,4-Trimethylpentane
Concen: 1.971 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



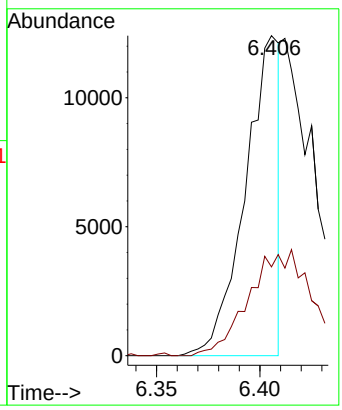


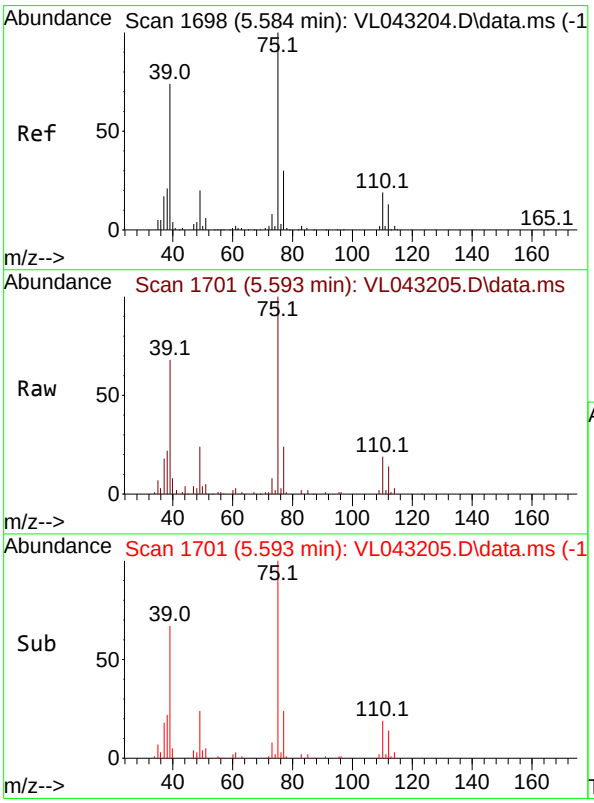
#45
t-1,3-Dichloropropene
Concen: 1.063 ppbv
RT: 6.406 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 75 Resp: 14338

Ion	Ratio	Lower	Upper
75	100		
77	27.8	24.3	36.5

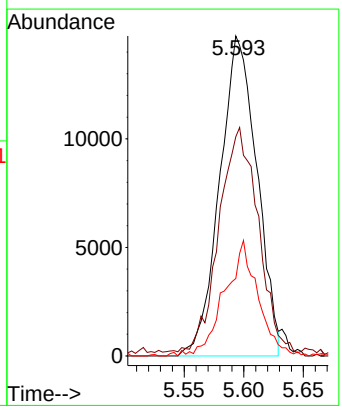


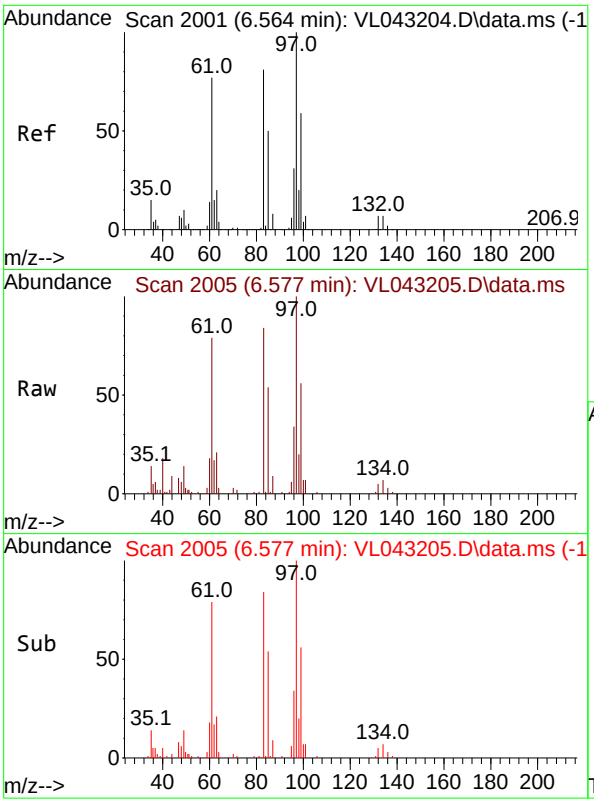


#46
cis-1,3-Dichloropropene
Concen: 2.020 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



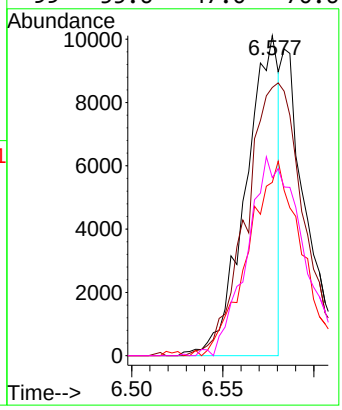


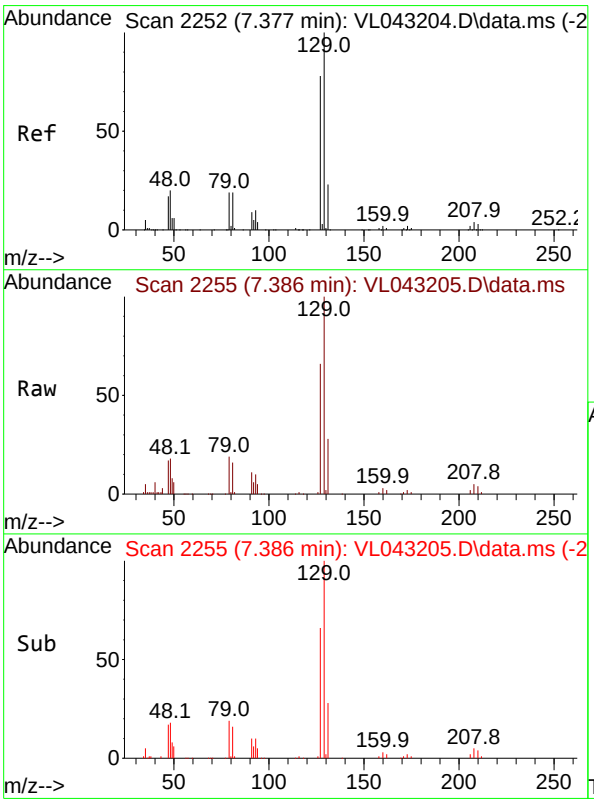
#47
1,1,2-Trichloroethane
Concen: 1.201 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

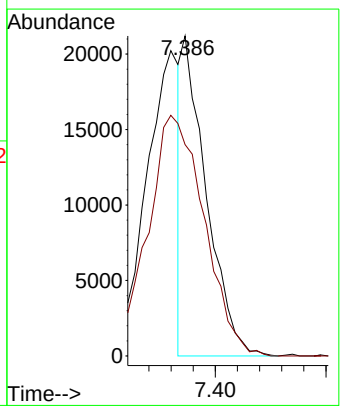


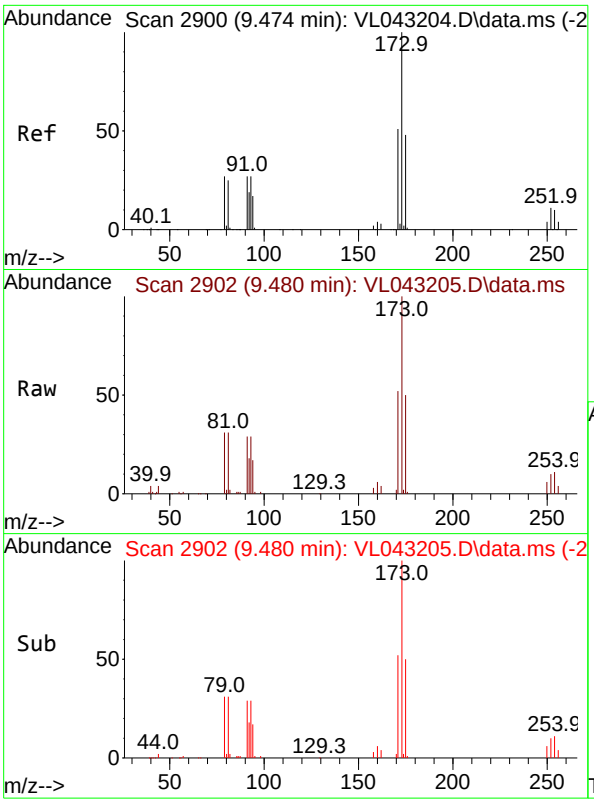


#48
Dibromochloromethane
Concen: 0.887 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:129 Resp: 16152

Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.3	117.9#



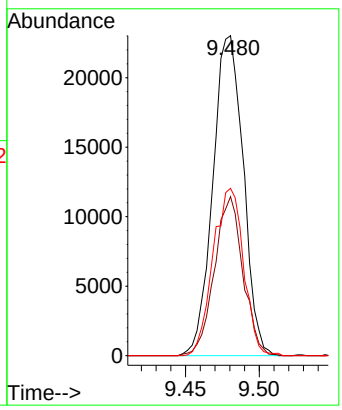


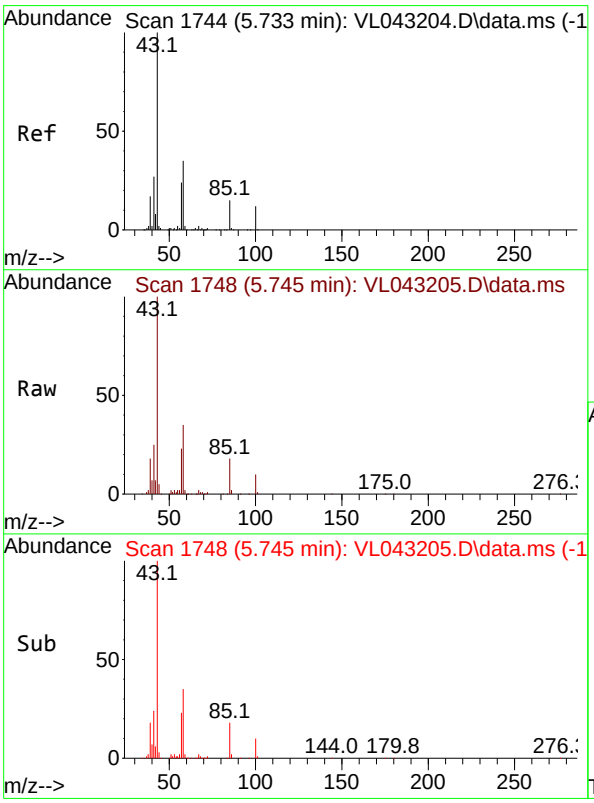
#49
Bromoform
Concen: 2.050 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

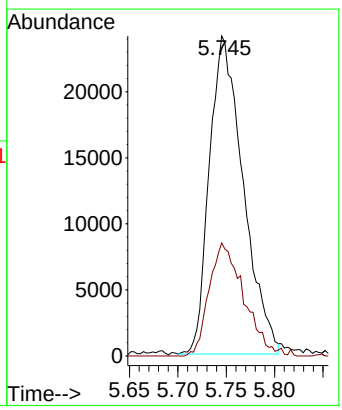


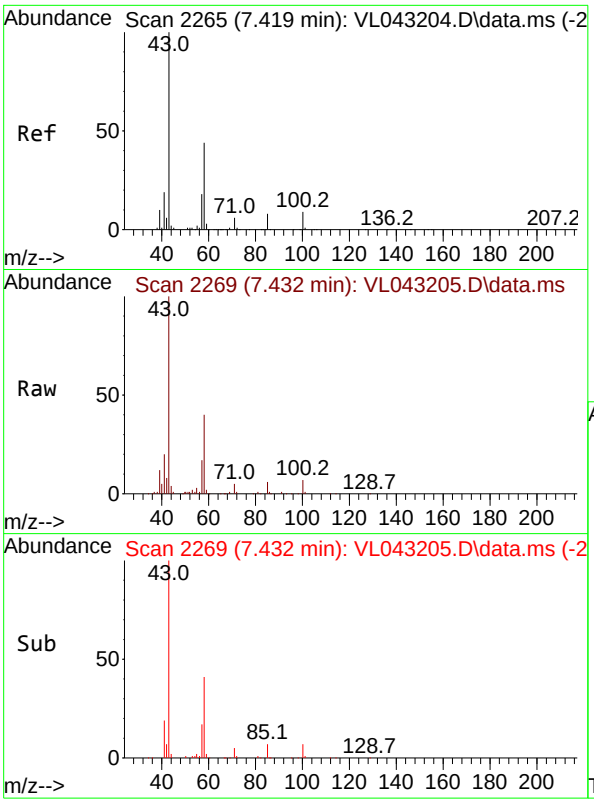


#50
4-Methyl-2-Pentanone
Concen: 2.066 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 58461

Ion	Ratio	Lower	Upper
43	100		
58	36.7	28.4	42.6



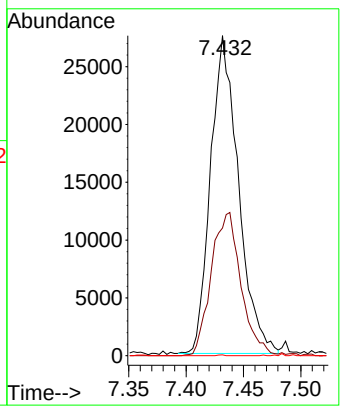


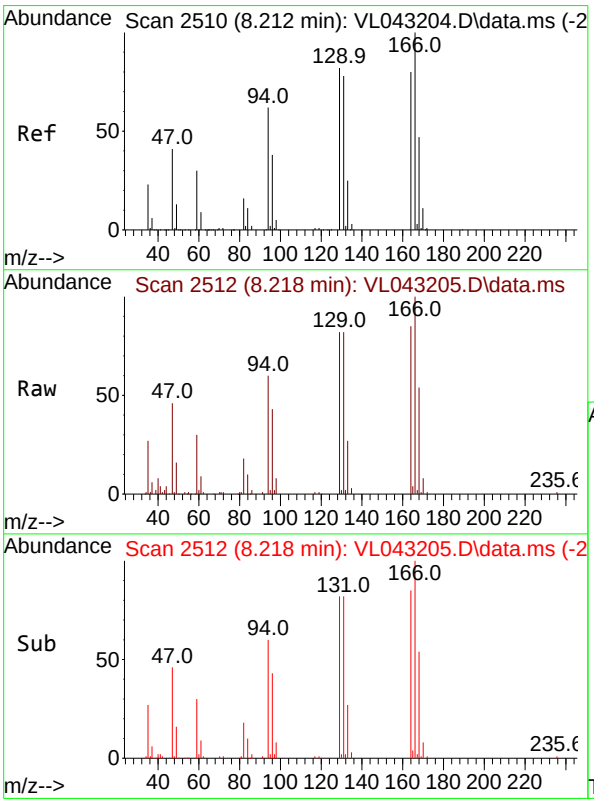
#51
2-Hexanone
Concen: 2.113 ppbv
RT: 7.432 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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#

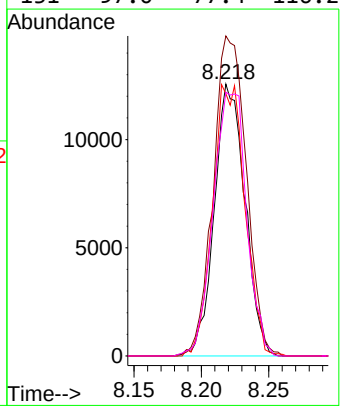


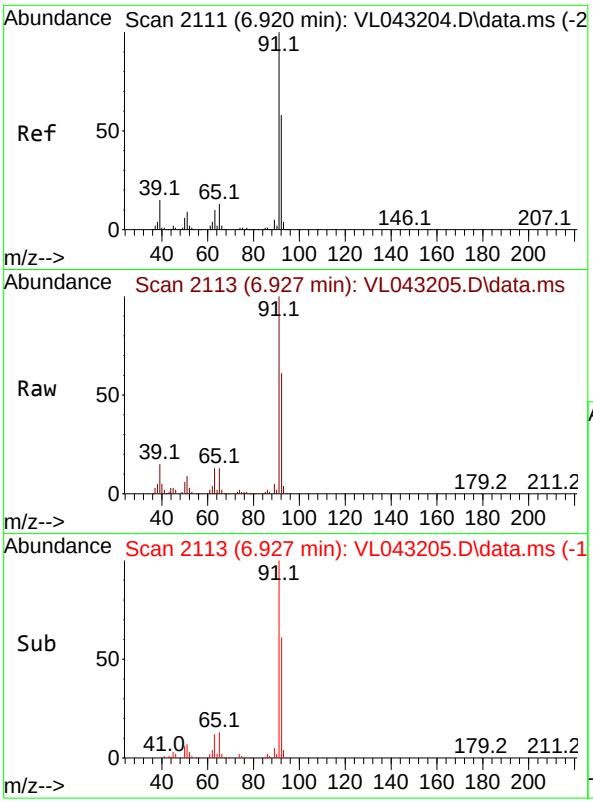


#52
Tetrachloroethene
Concen: 1.958 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



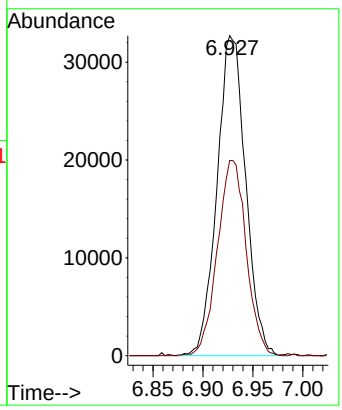


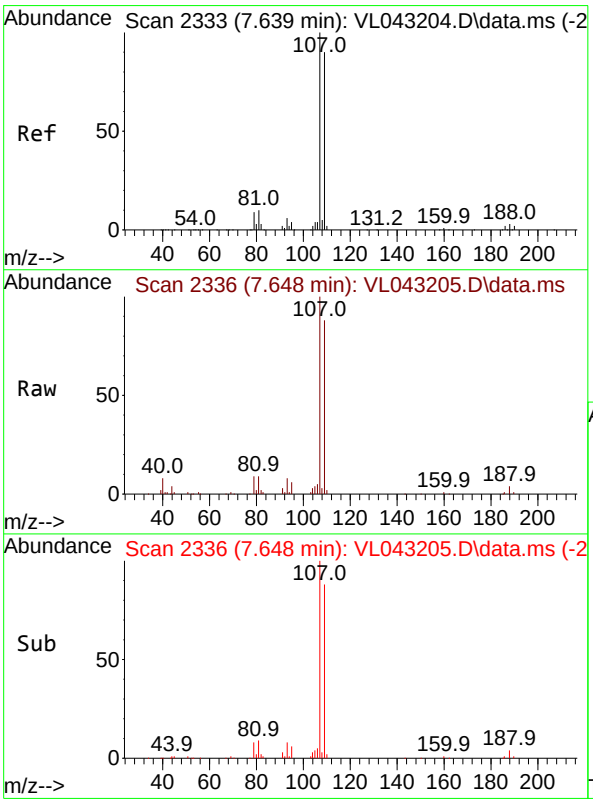
#53
Toluene
Concen: 2.008 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 65238

Ion	Ratio	Lower	Upper
91	100		
92	61.5	47.4	71.0

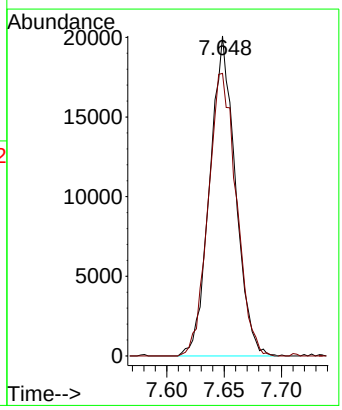


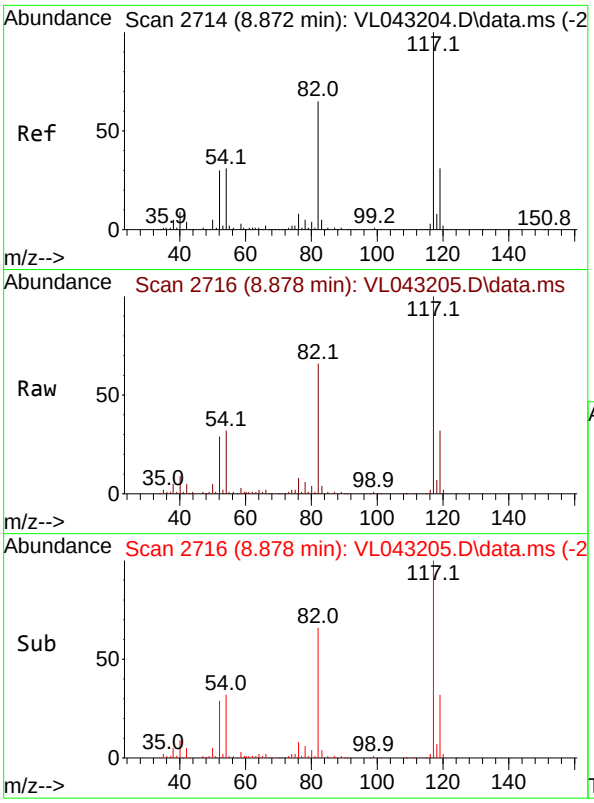


#54
1,2-Dibromoethane
Concen: 2.007 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:107 Resp: 31266

Ion	Ratio	Lower	Upper
107	100		
109	88.3	72.1	108.1



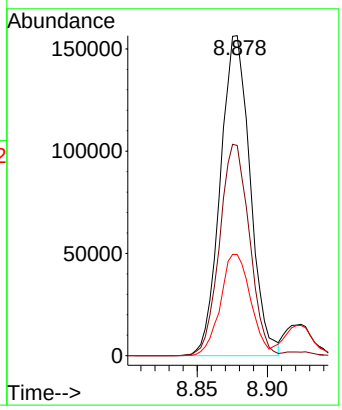


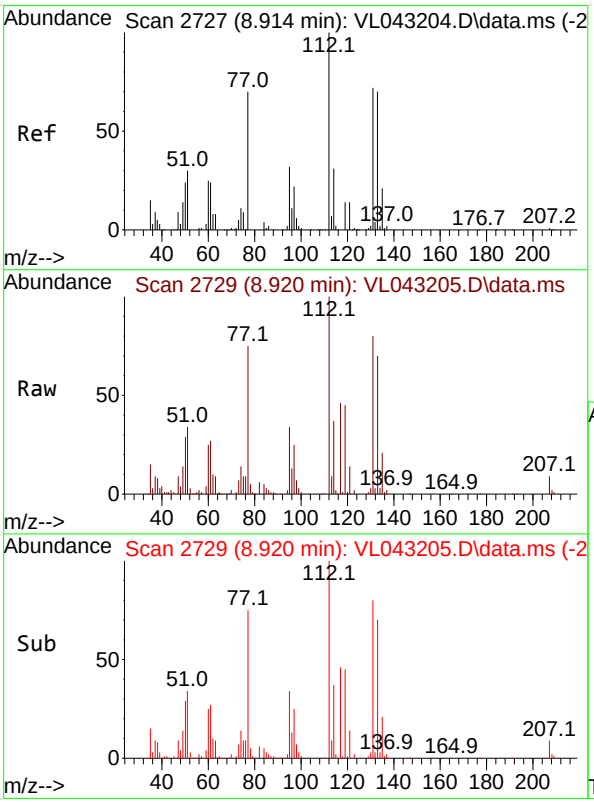
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

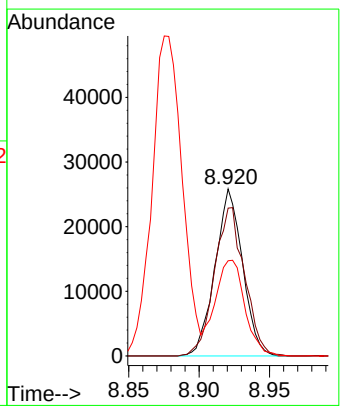


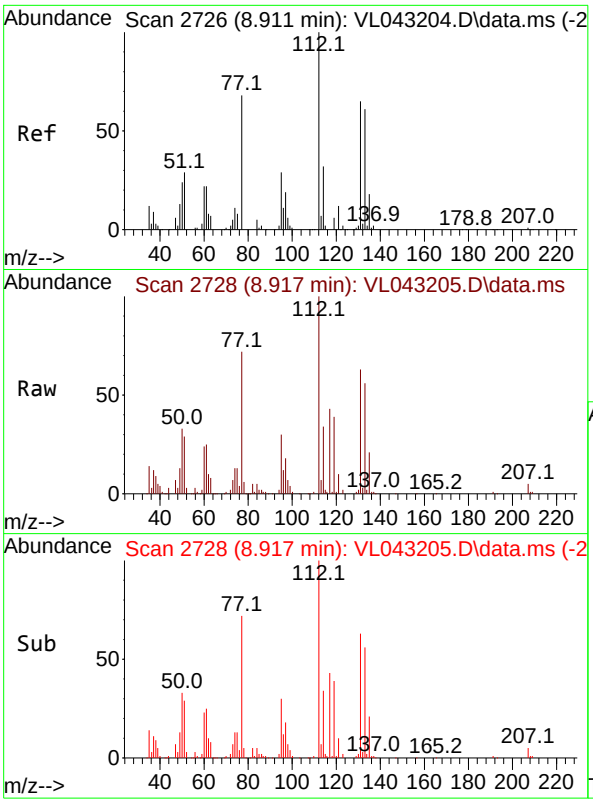


#56
1,1,1,2-Tetrachloroethane
Concen: 2.071 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



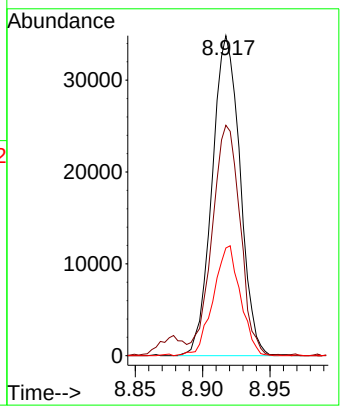


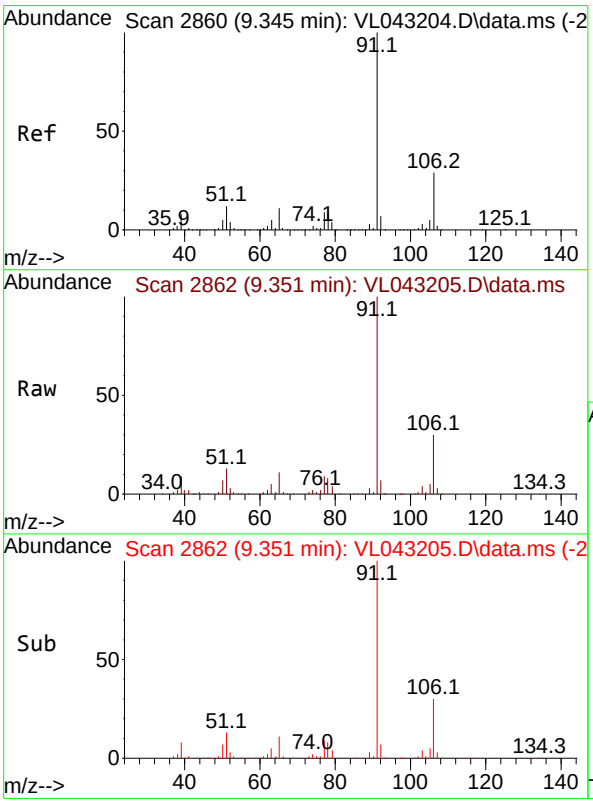
#57
Chlorobenzene
Concen: 2.121 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

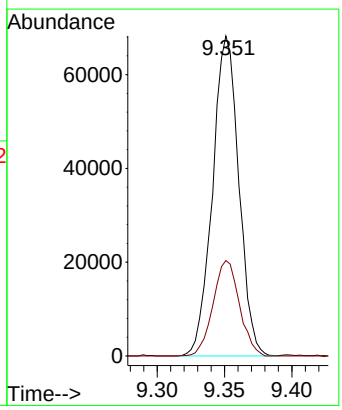


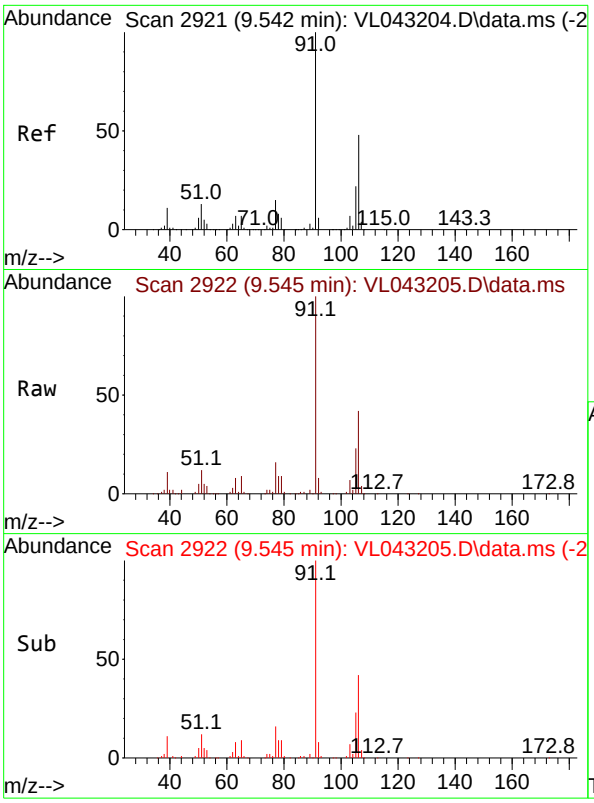


#58
Ethyl Benzene
Concen: 2.087 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 92649

Ion	Ratio	Lower	Upper
91	100		
106	29.8	22.8	34.2



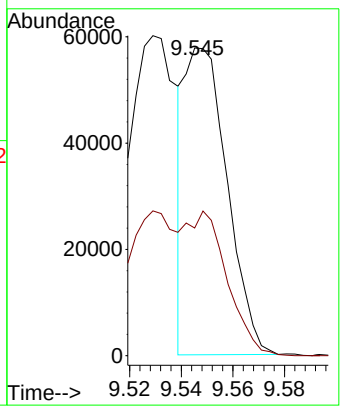


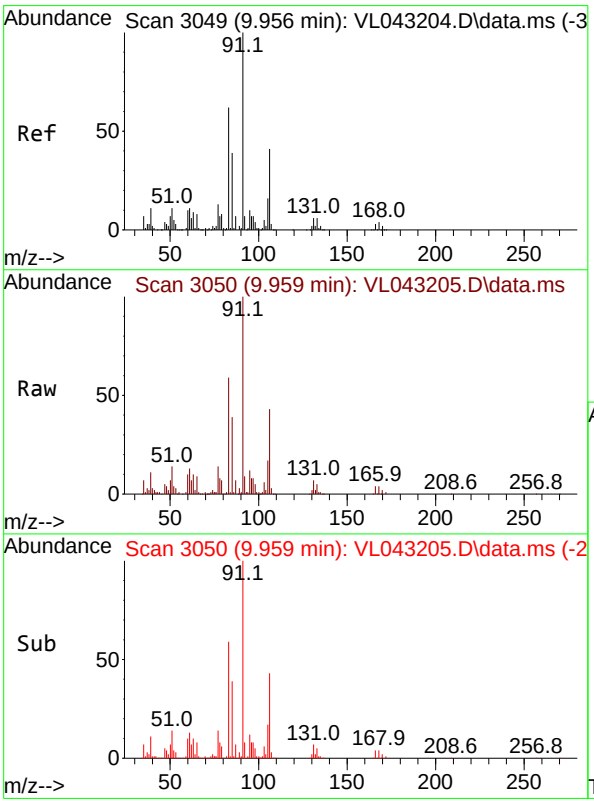
#59
m/p-Xylene
Concen: 1.838 ppbv
RT: 9.545 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 65660

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

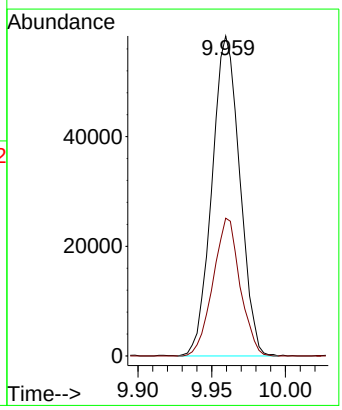


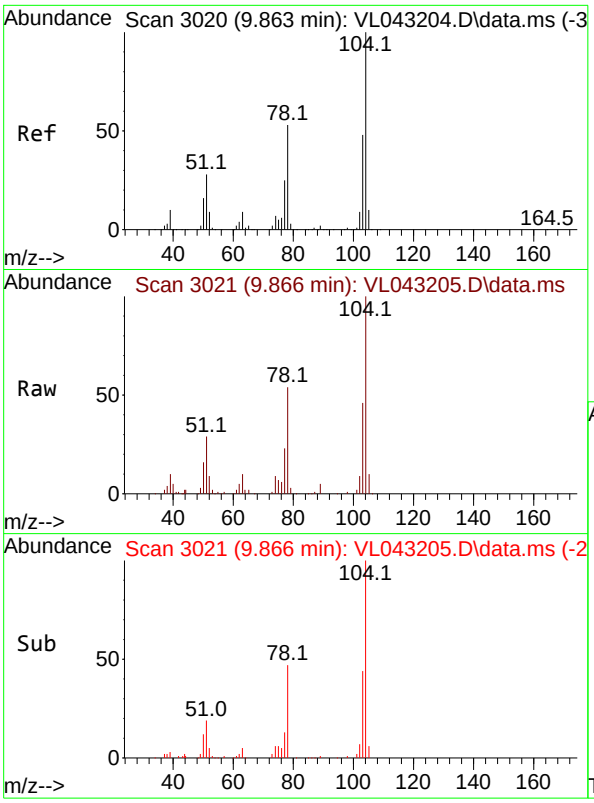


#60
o-Xylene
Concen: 2.153 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 76540

Ion	Ratio	Lower	Upper
91	100		
106	41.9	20.9	62.8



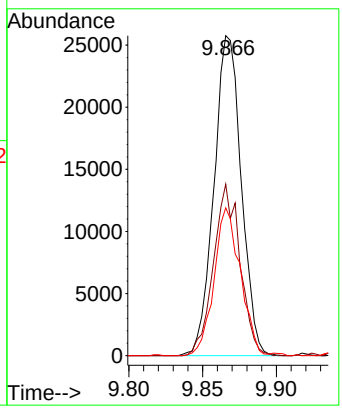


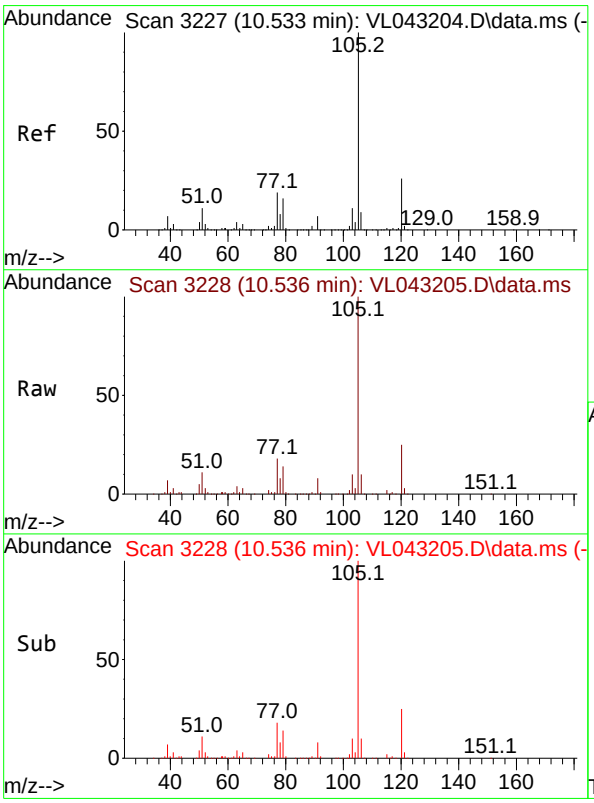
#61
Styrene
Concen: 2.133 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

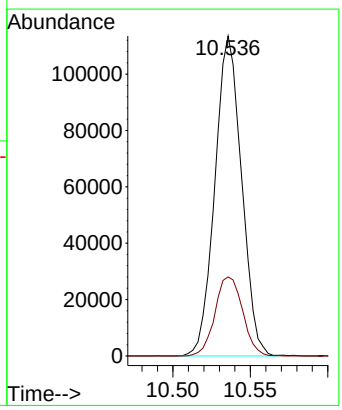


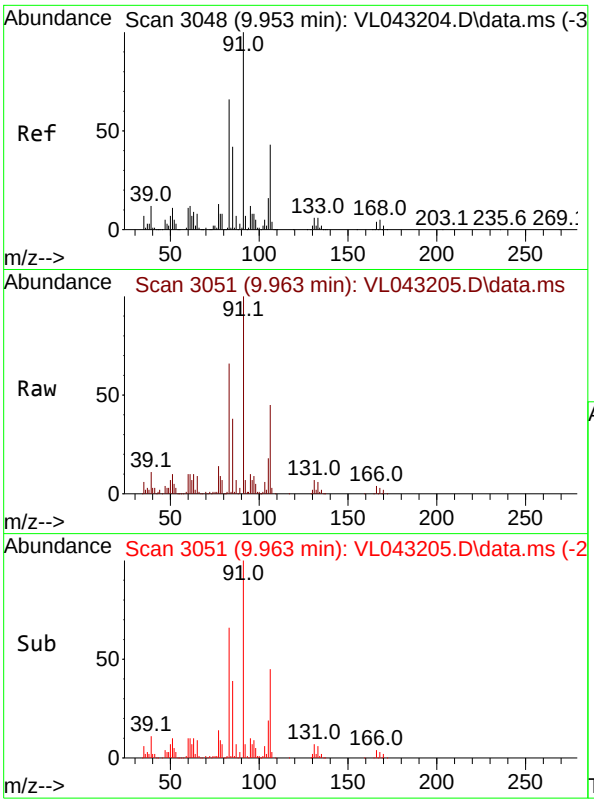


#62
Isopropylbenzene
Concen: 2.136 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:105 Resp: 135853

Ion	Ratio	Lower	Upper
105	100		
120	25.6	19.8	29.8



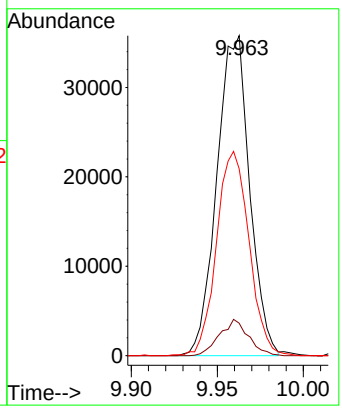


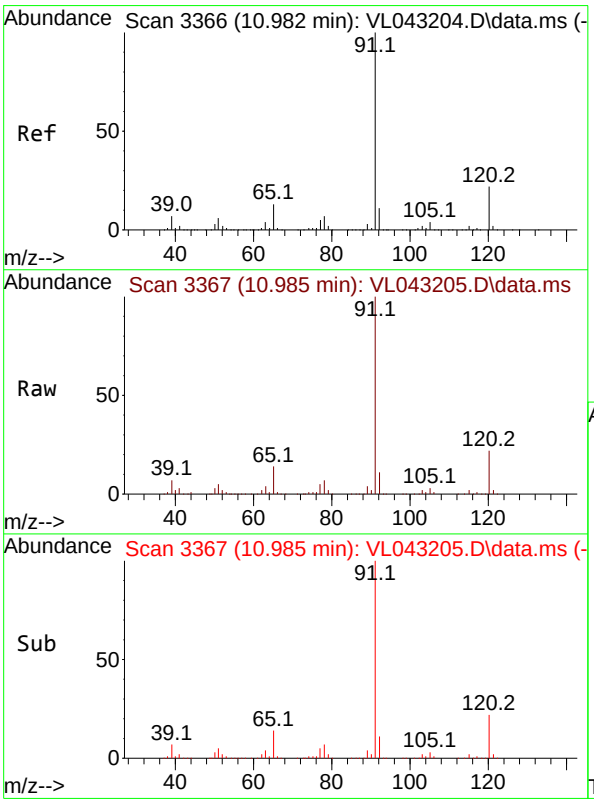
#63
1,1,2,2-Tetrachloroethane
Concen: 2.102 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

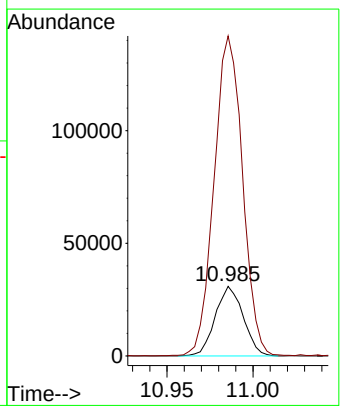


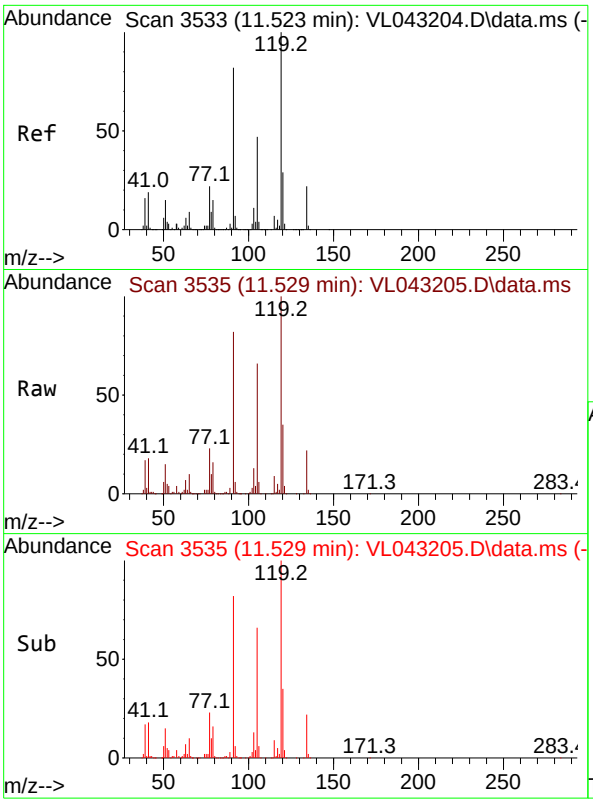


#64
n-propylbenzene
Concen: 2.136 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:120 Resp: 34915

Ion	Ratio	Lower	Upper
120	100		
91	467.6	377.1	565.7



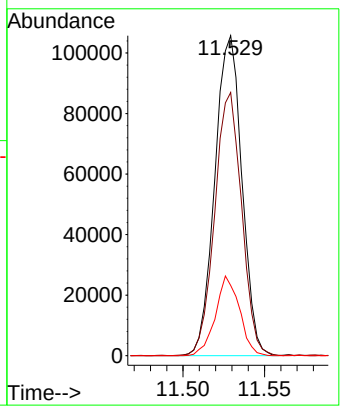


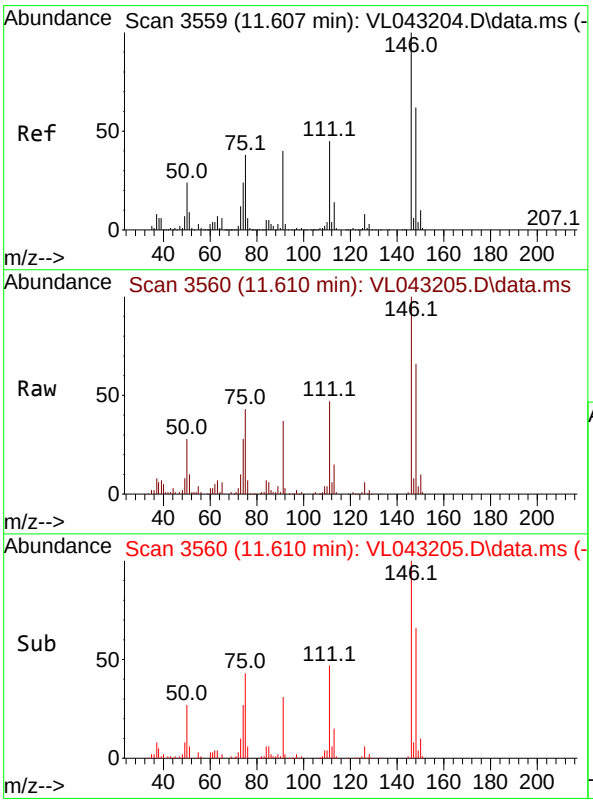
#65
tert-Butylbenzene
Concen: 2.149 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

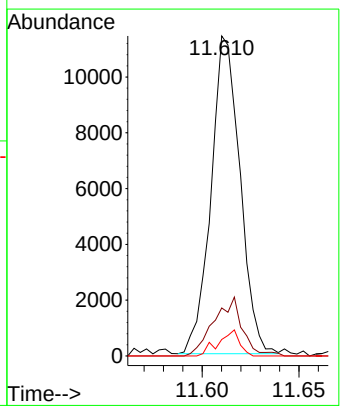


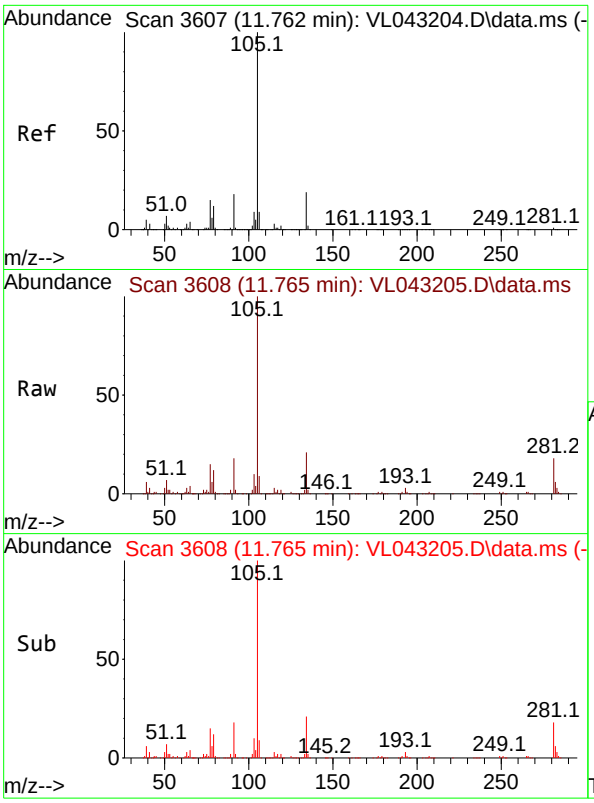


#66
Benzyl Chloride
Concen: 2.059 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



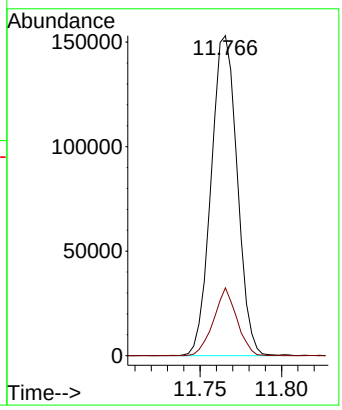


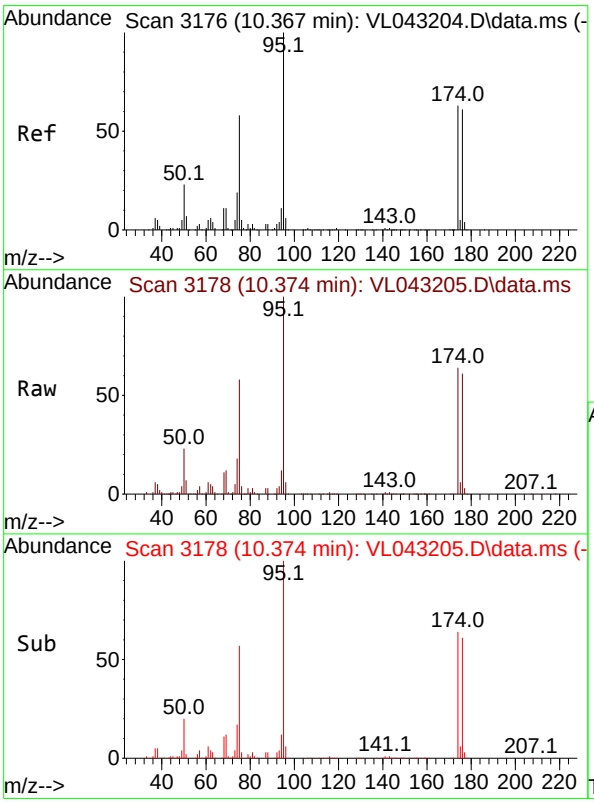
#67
sec-Butylbenzene
Concen: 2.151 ppbv
RT: 11.765 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 170529

Ion	Ratio	Lower	Upper
105	100		
134	18.9	15.0	22.6

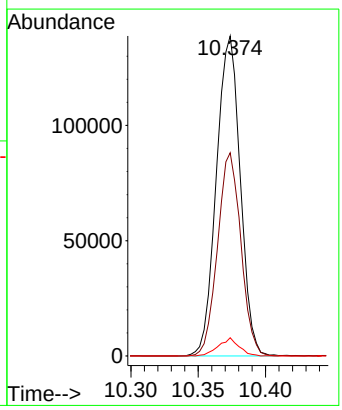


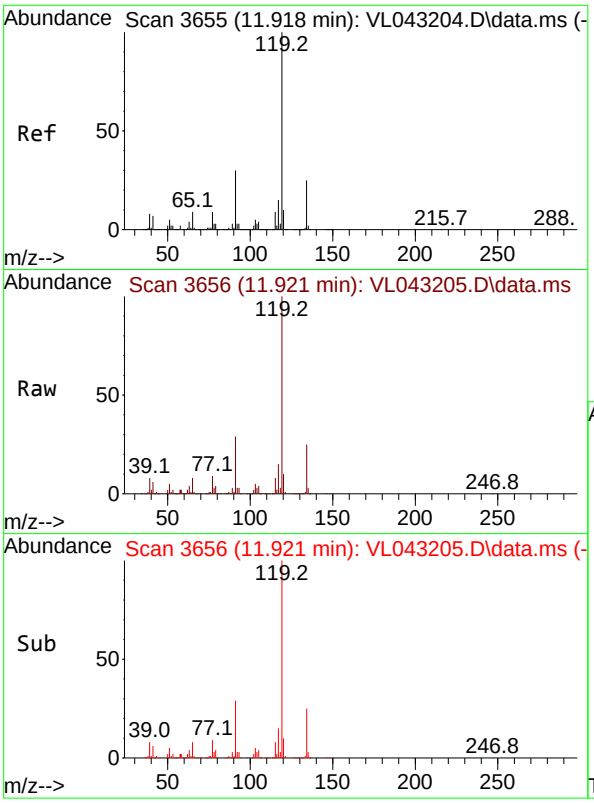


#68
1-Bromo-4-Fluorobenzene
Concen: 10.115 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



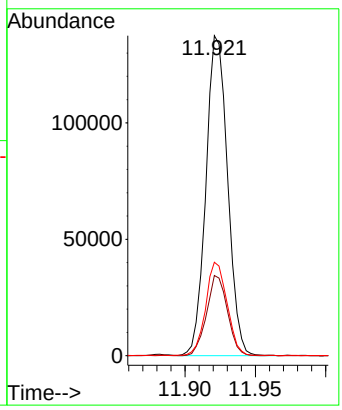


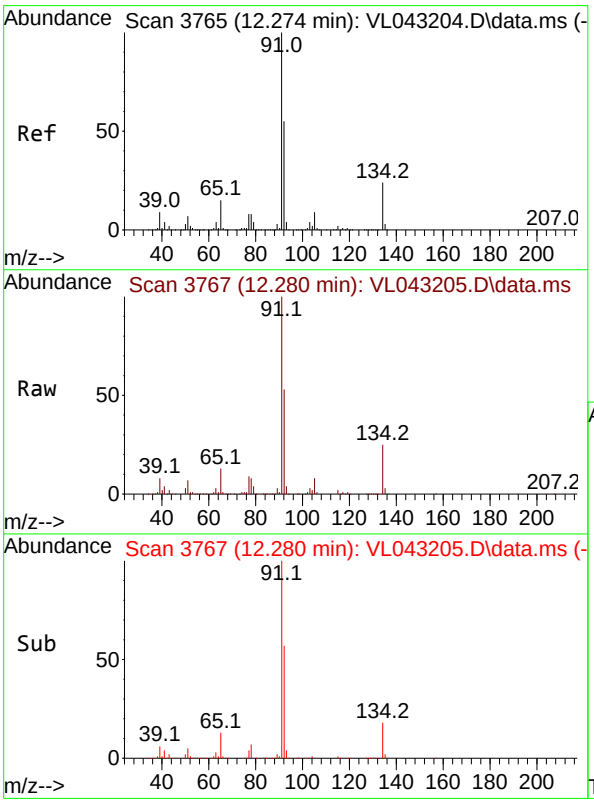
#69
p-Isopropyltoluene
Concen: 2.195 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

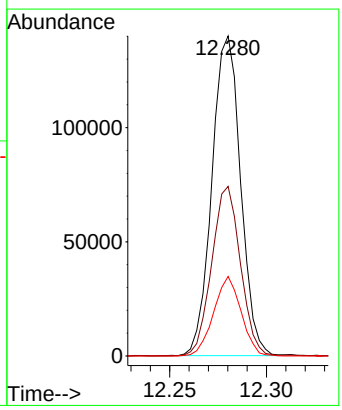


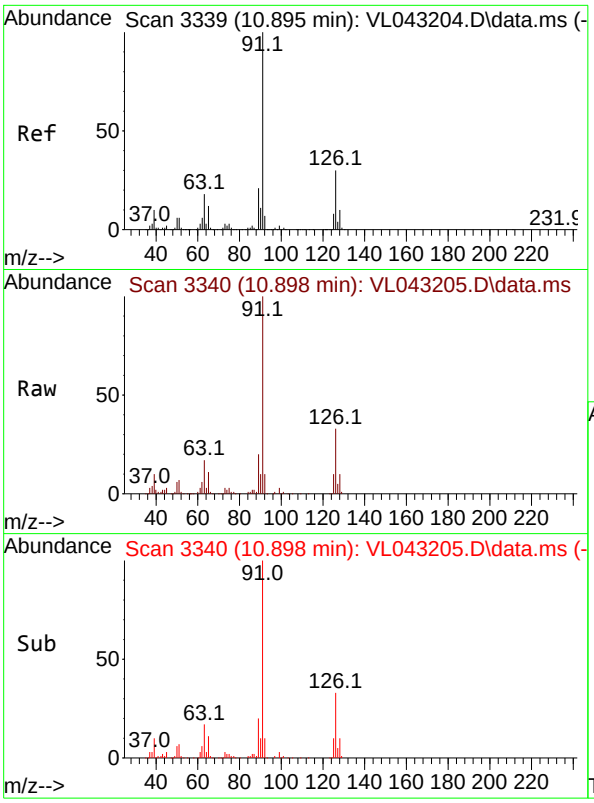


#70
n-Butylbenzene
Concen: 2.212 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



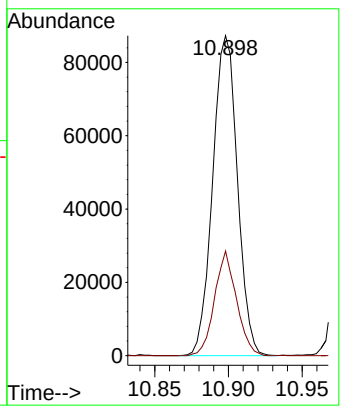


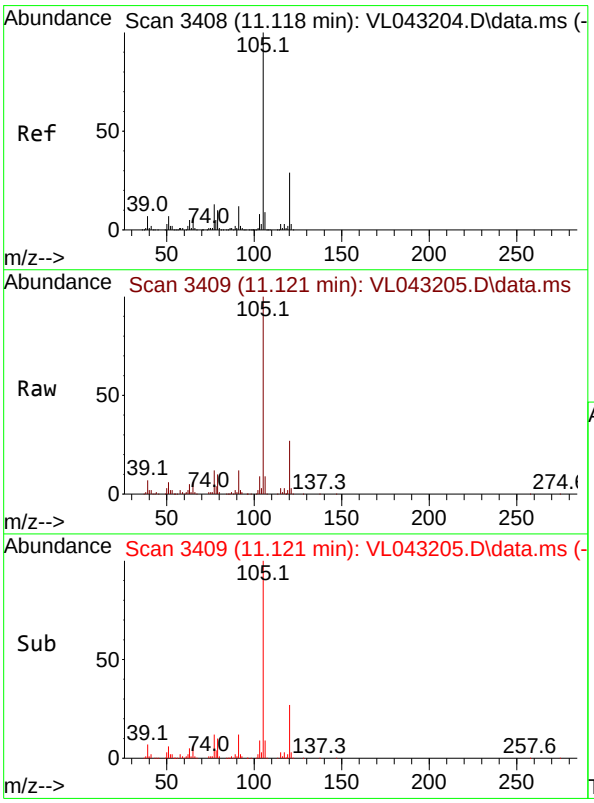
#71
2-Chlorotoluene
Concen: 2.085 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 101951

Ion	Ratio	Lower	Upper
91	100		
126	29.0	11.7	46.7

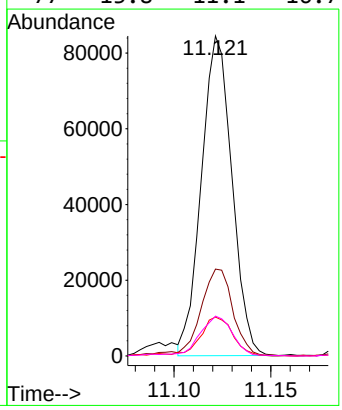


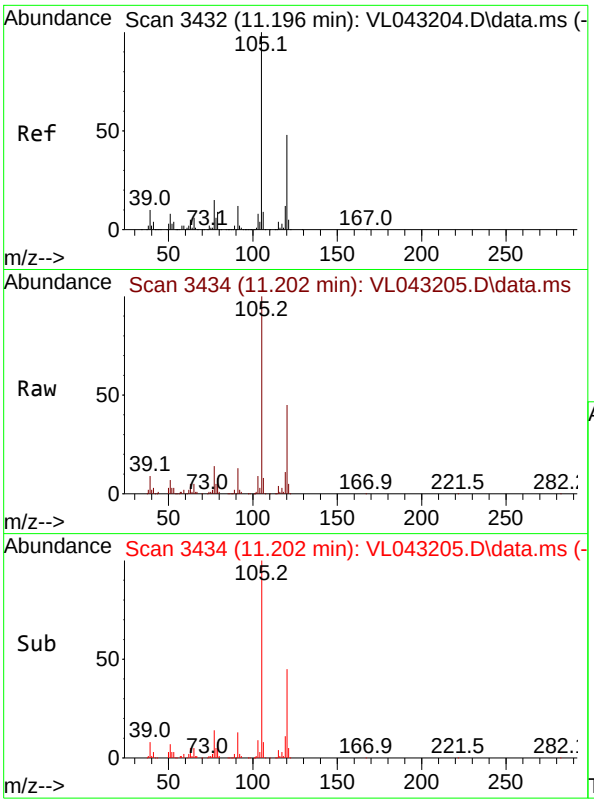


#72
4-Ethyltoluene
Concen: 2.140 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



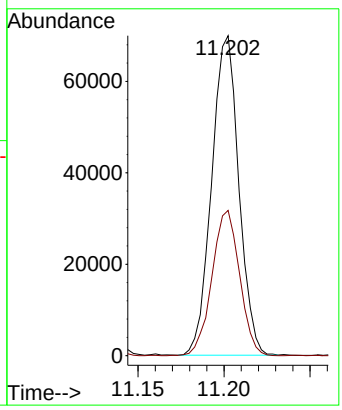


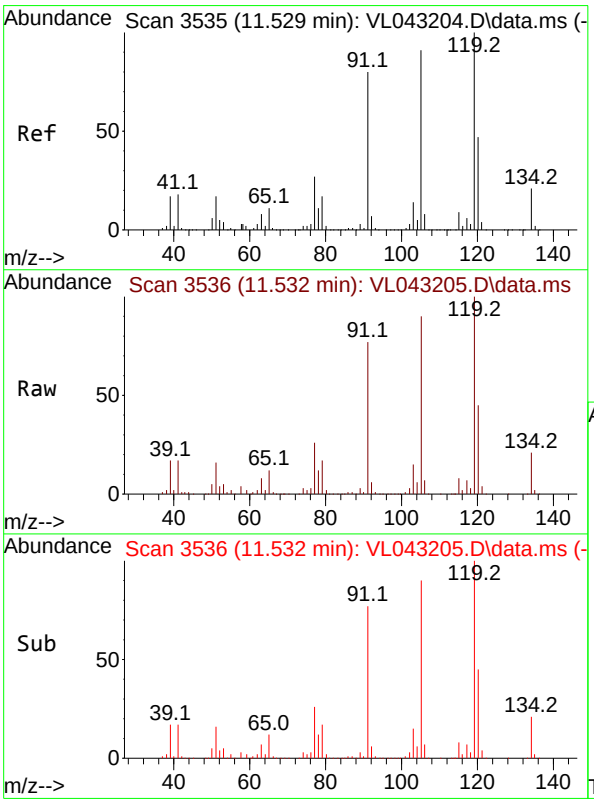
#73
1,3,5-Trimethylbenzene
Concen: 2.110 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 76655

Ion	Ratio	Lower	Upper
105	100		
120	45.5	38.6	57.8

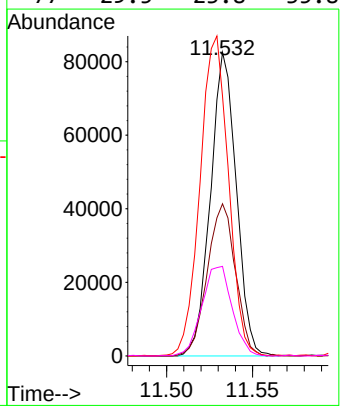


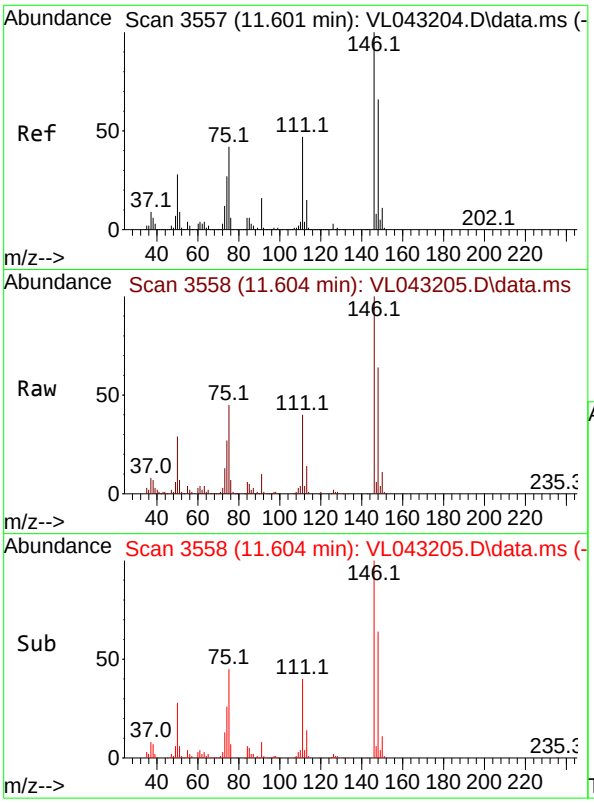


#74
1,2,4-Trimethylbenzene
Concen: 2.176 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



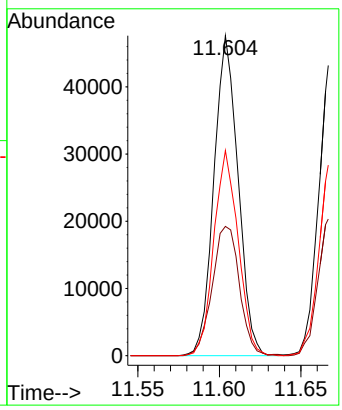


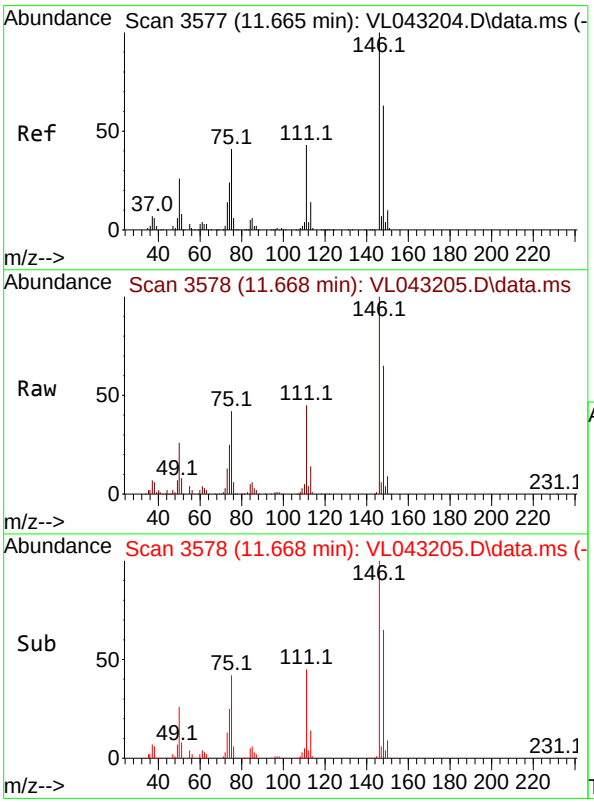
#75
1,3-Dichlorobenzene
Concen: 2.116 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

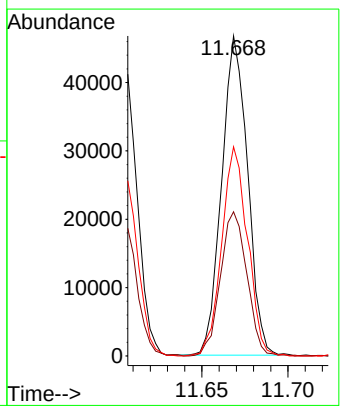


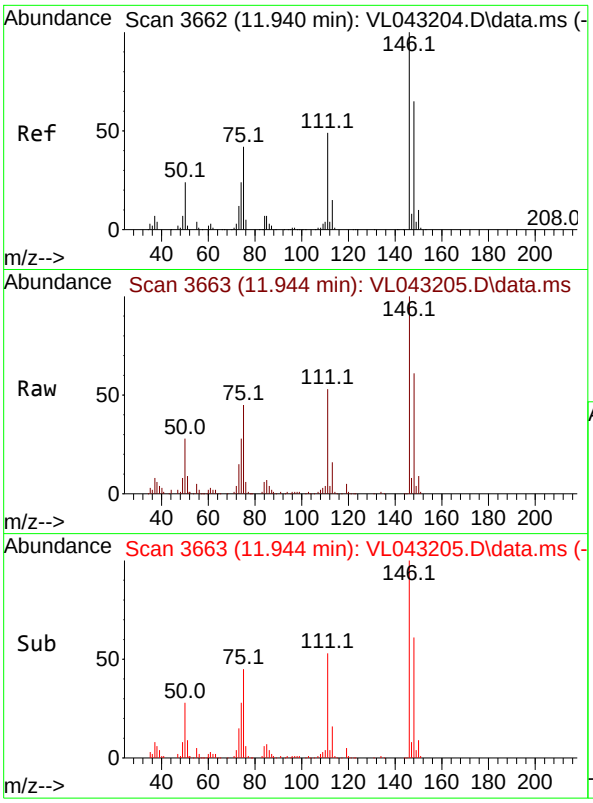


#76
1,4-Dichlorobenzene
Concen: 2.112 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



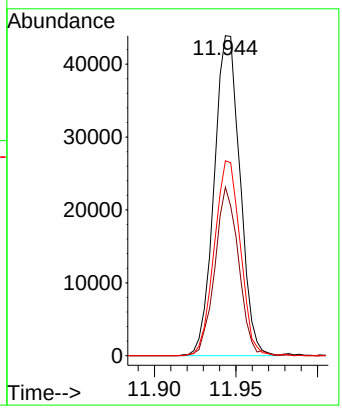


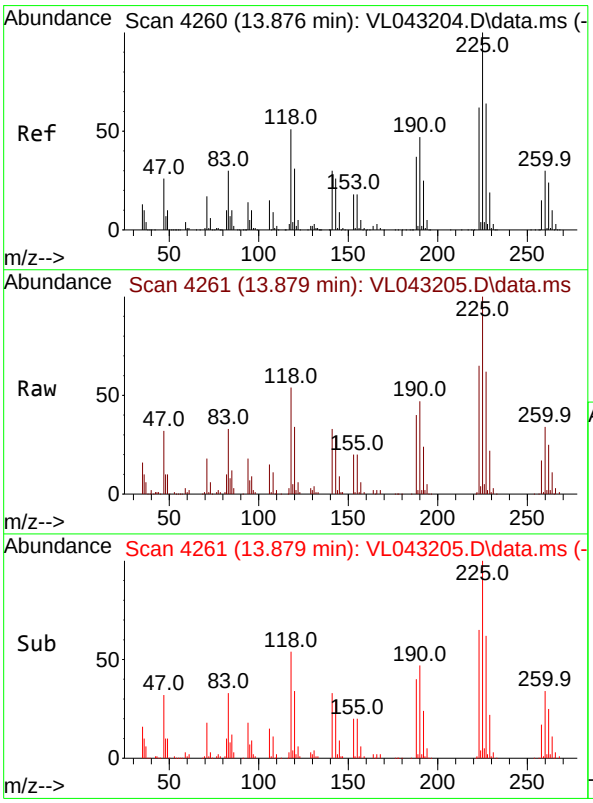
#77
1,2-Dichlorobenzene
Concen: 2.177 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

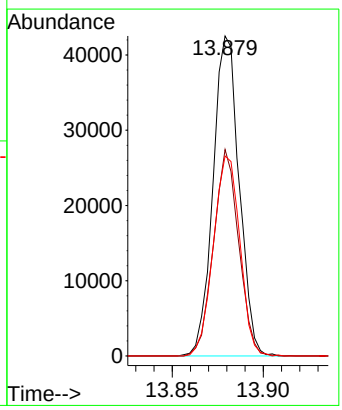


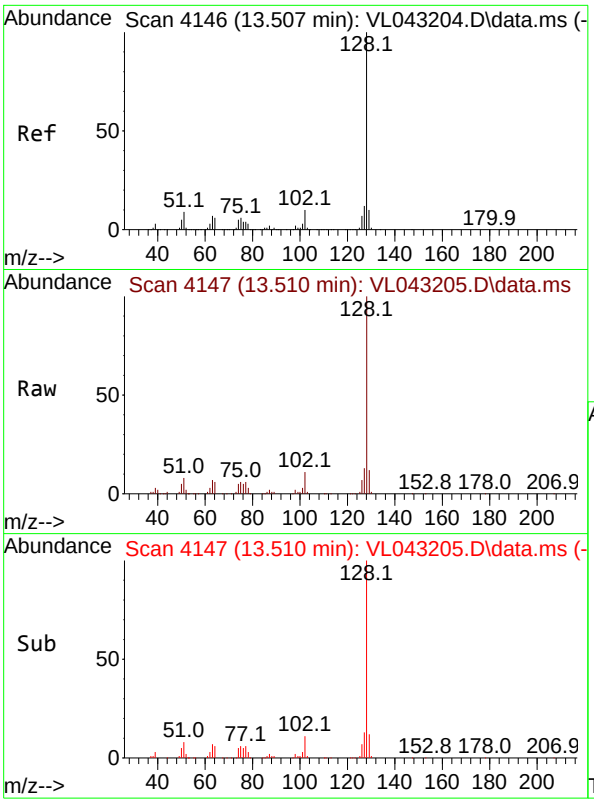


#78
Hexachloro-1,3-Butadiene
Concen: 2.287 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



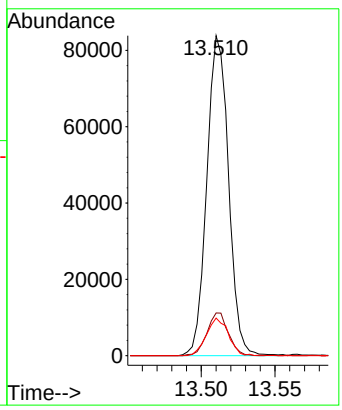


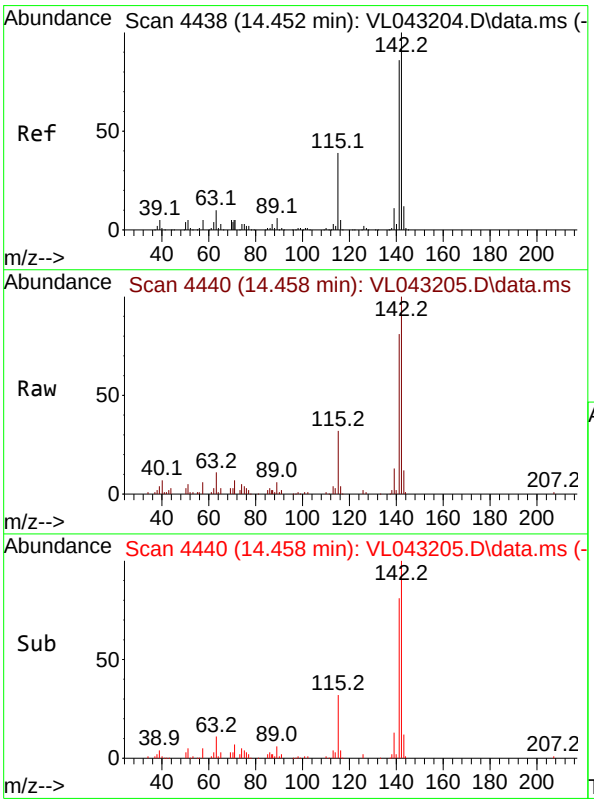
#79
Naphthalene
Concen: 2.436 ppbv
RT: 13.510 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

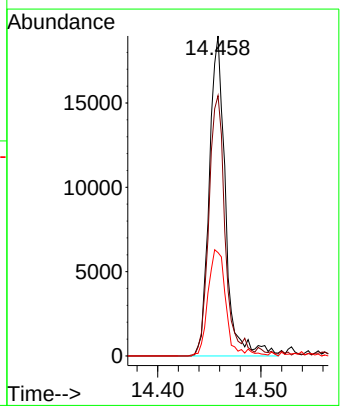


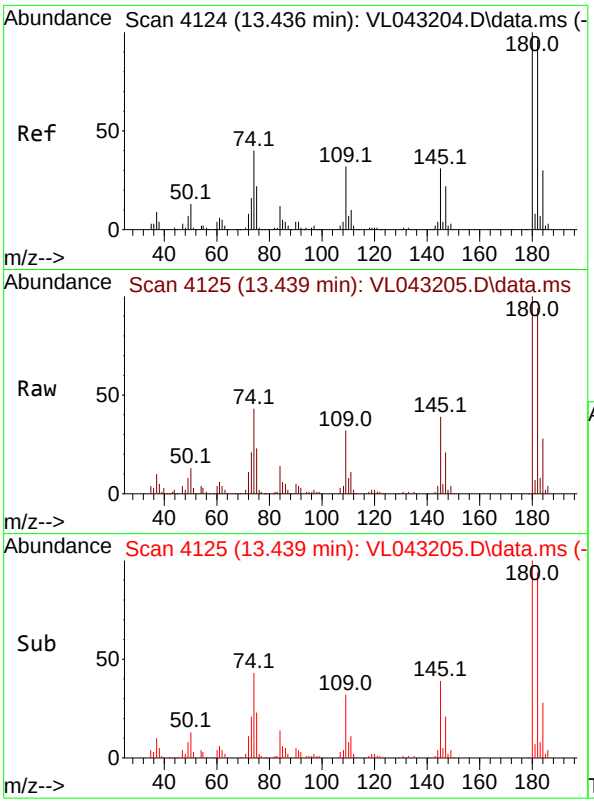


#80
Naphthalene,2-methyl-
Concen: 2.237 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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



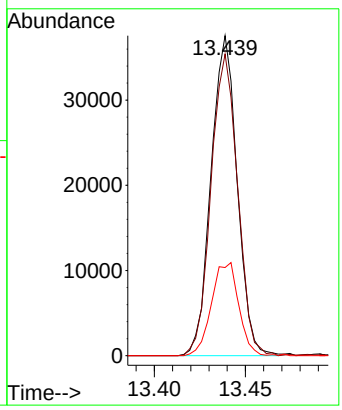


#81
1,2,4-Trichlorobenzene
Concen: 2.382 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

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

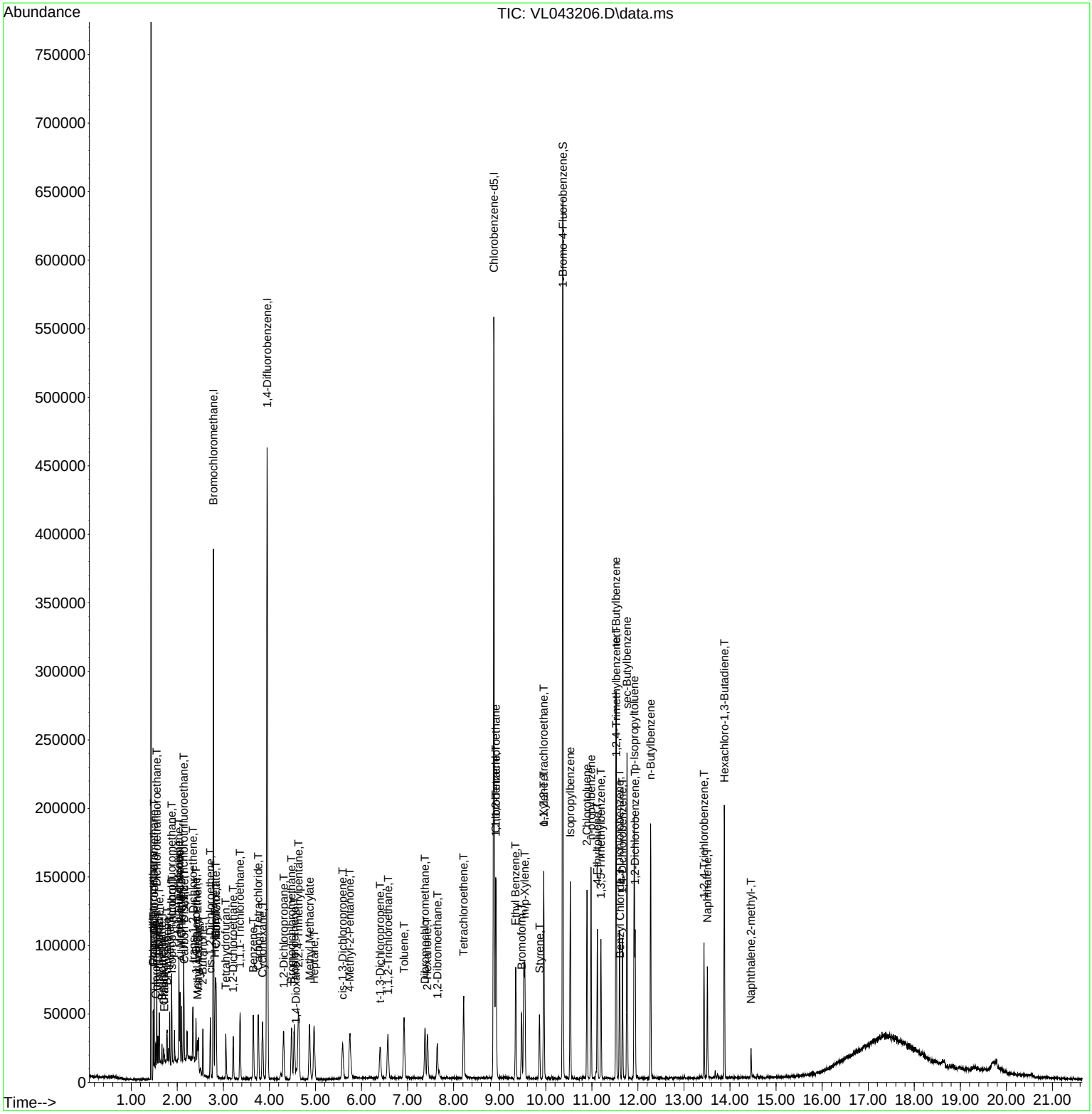
(#) = qualifier out of range (m) = manual integration (+) = signals summed

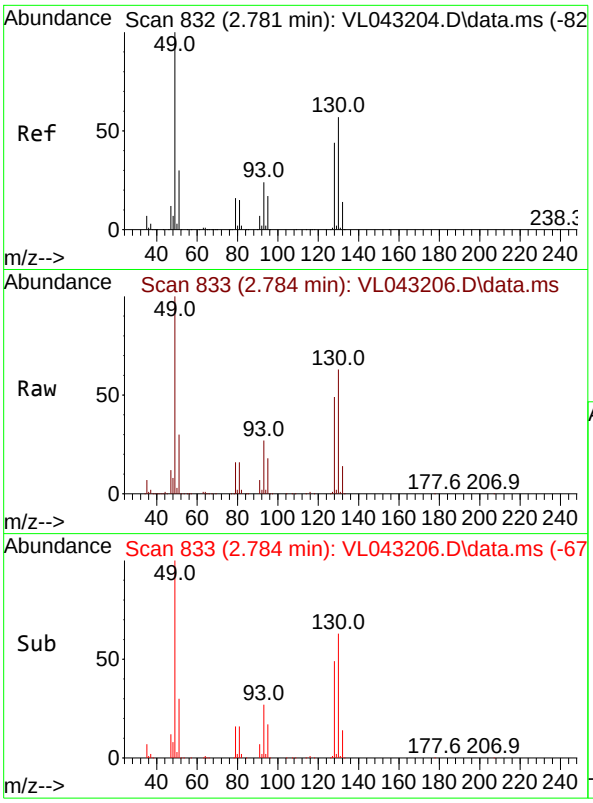
Quantitation Report (Not Reviewed)

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



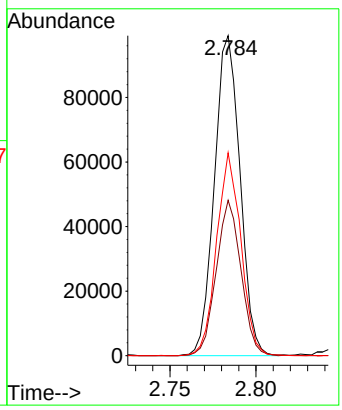


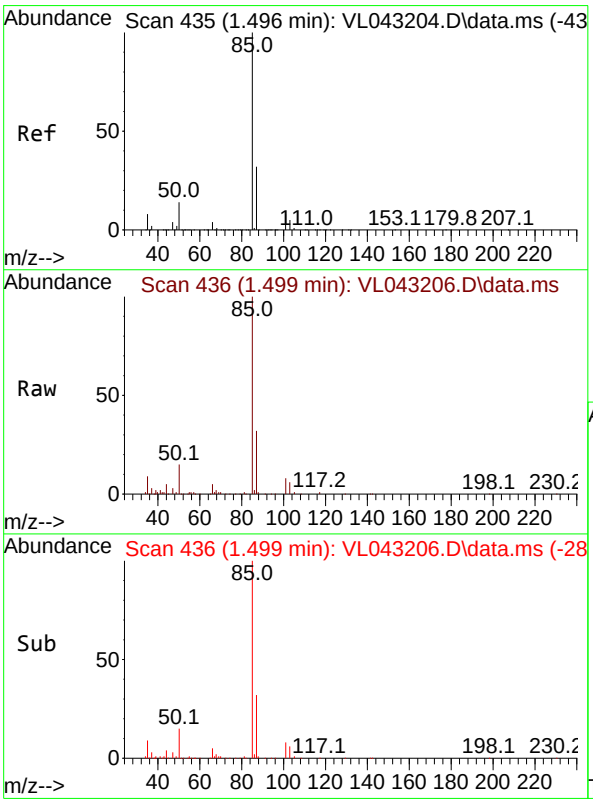
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

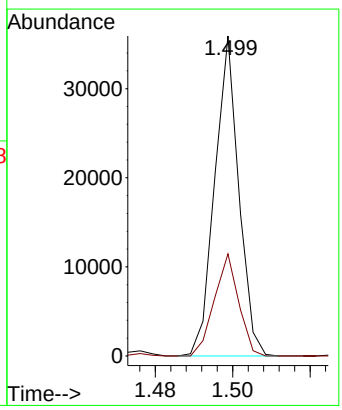


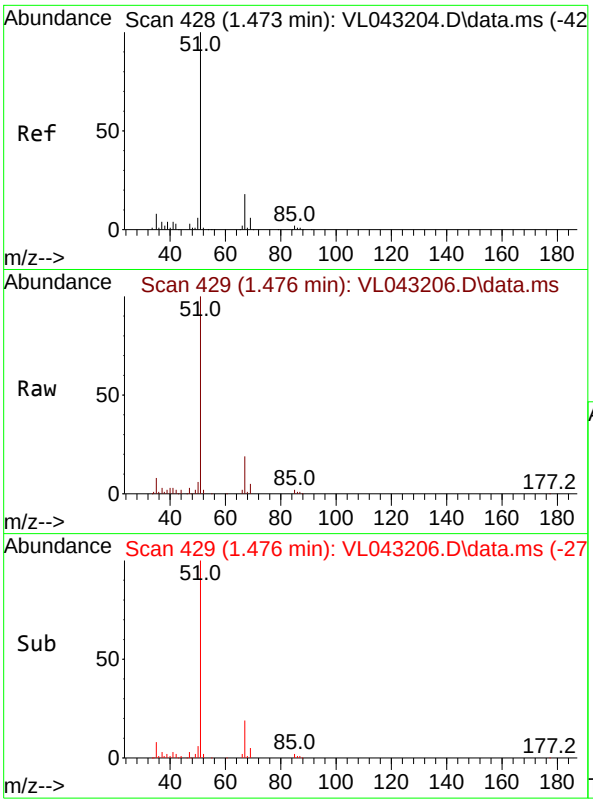


#2
Dichlorodifluoromethane
Concen: 1.067 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 85 Resp: 15474

Ion	Ratio	Lower	Upper
85	100		
87	31.9	25.4	38.2



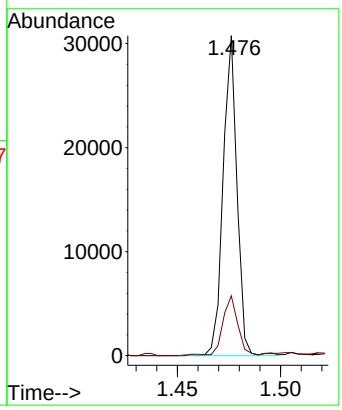


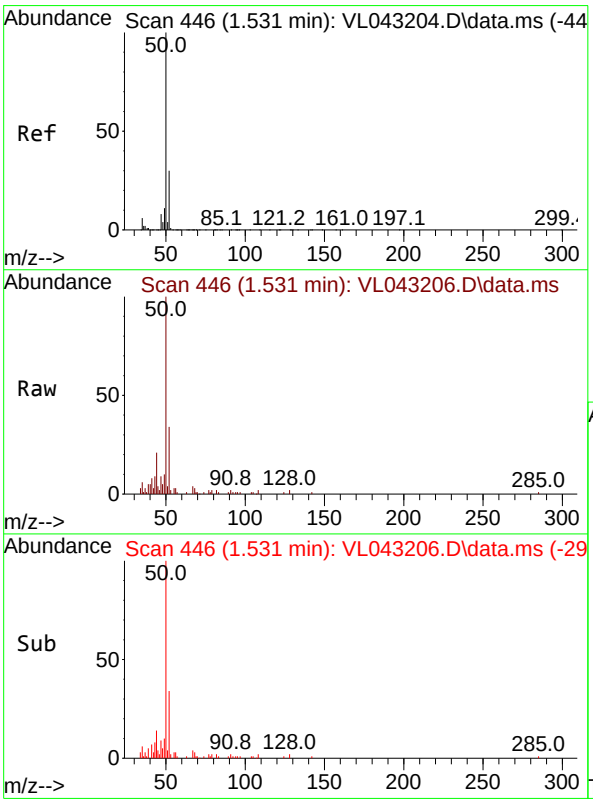
#3
Chlorodifluoromethane
Concen: 1.013 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 14437

Ion	Ratio	Lower	Upper
51	100		
67	22.3	14.9	22.3#

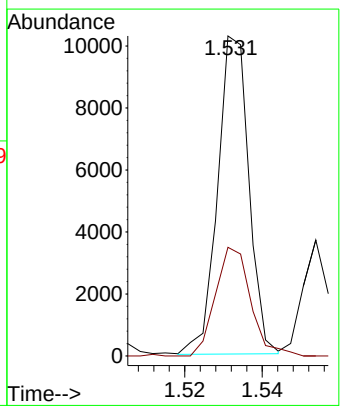


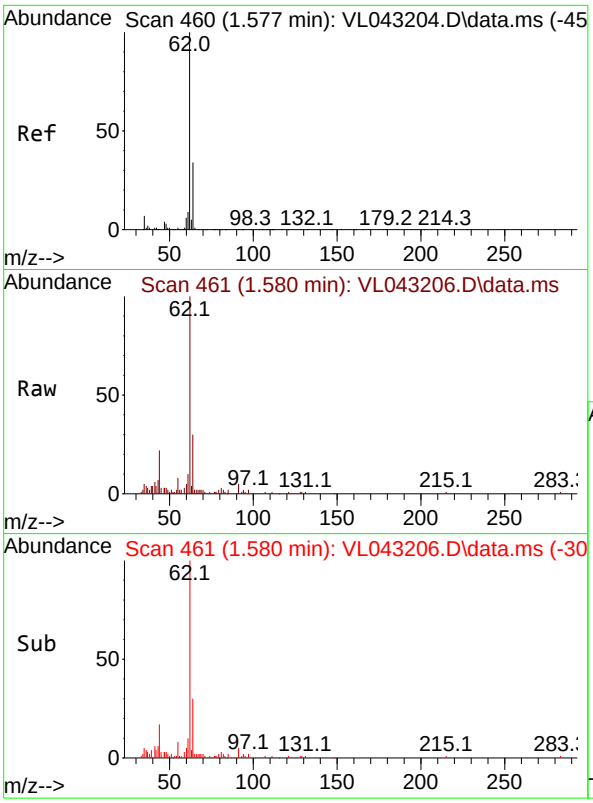


#4
Chloromethane
Concen: 1.061 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 50 Resp: 5751

Ion	Ratio	Lower	Upper
50	100		
52	34.2	24.1	36.1



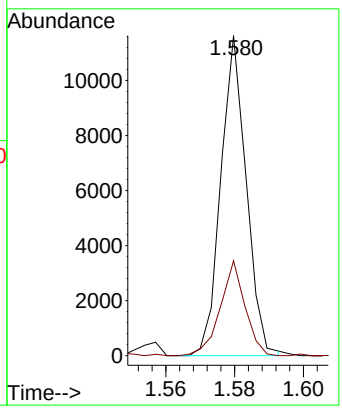


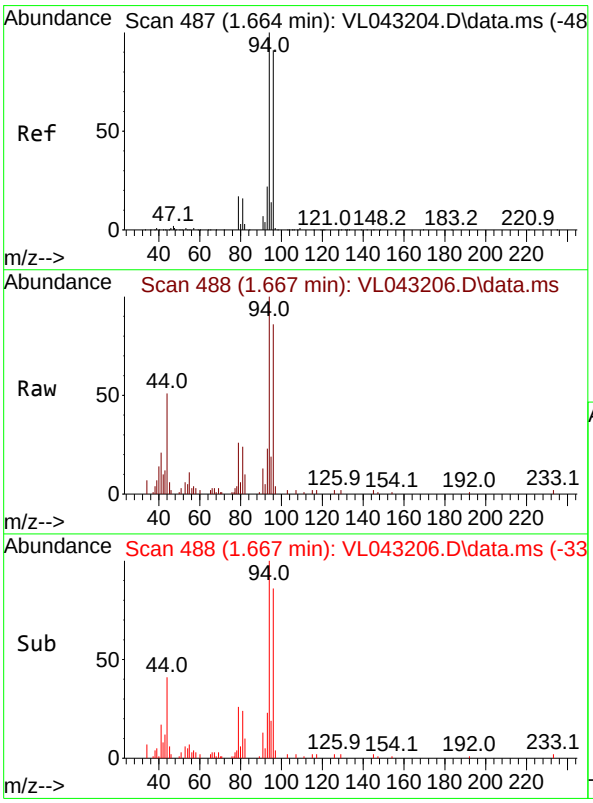
#5
Vinyl Chloride
Concen: 1.007 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 5967

Ion	Ratio	Lower	Upper
62	100		
64	31.3	27.3	40.9

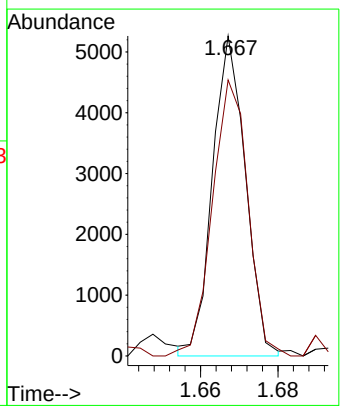


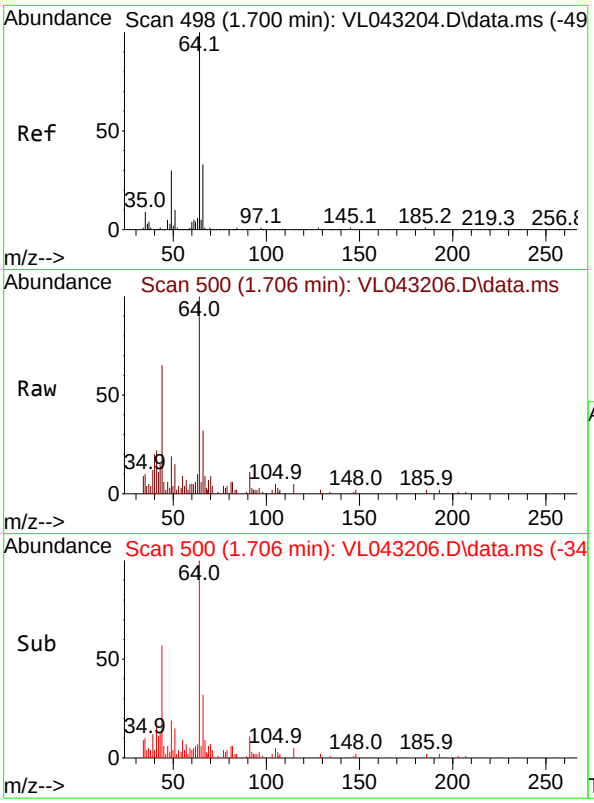


#6
Bromomethane
Concen: 1.080 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 94 Resp: 3104

Ion	Ratio	Lower	Upper
94	100		
96	85.7	72.9	109.3



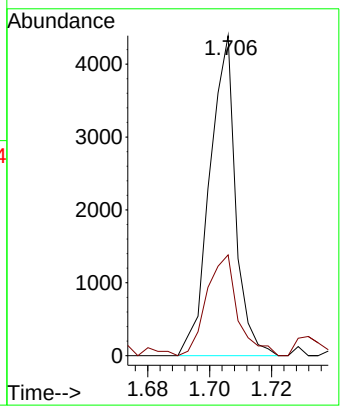


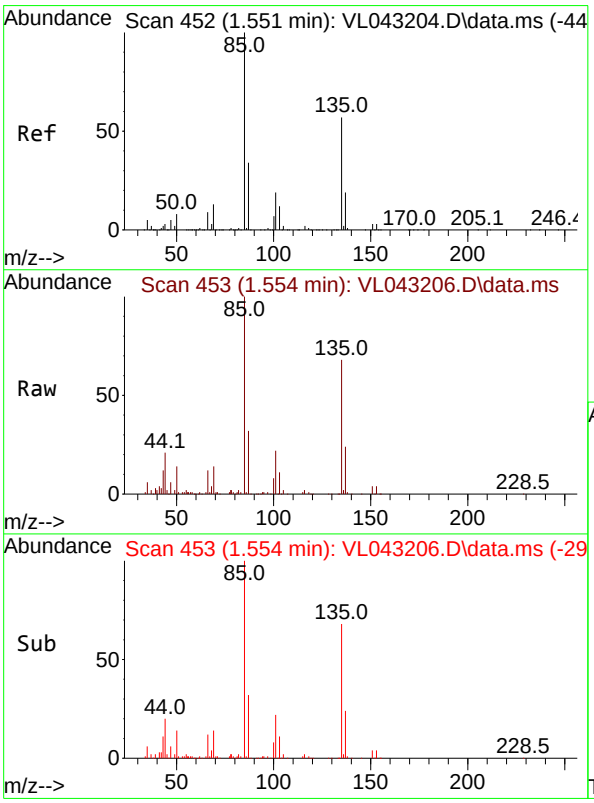
#7
Chloroethane
Concen: 1.104 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 2550

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.8	40.2

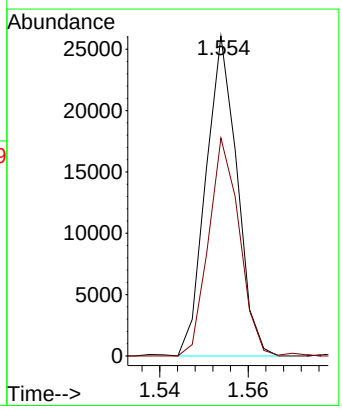


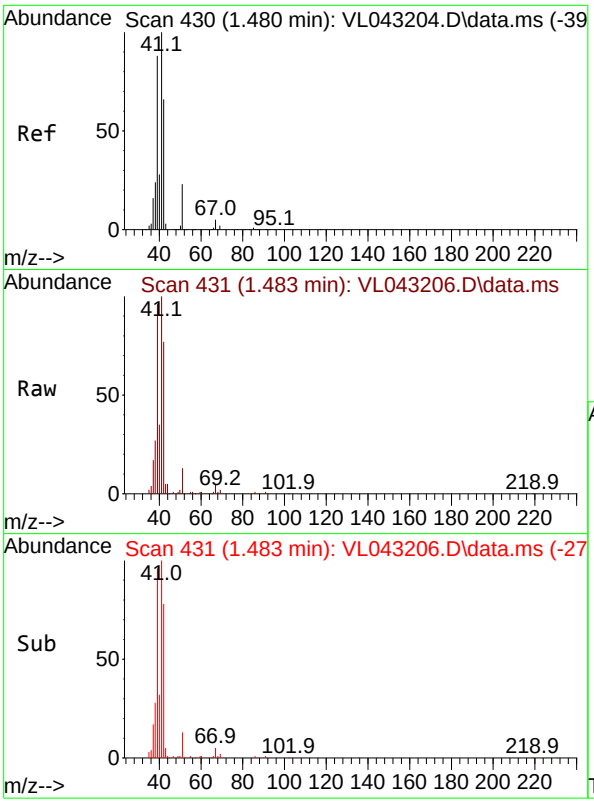


#8
Dichlorotetrafluoroethane
Concen: 1.058 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 85 Resp: 12759

Ion	Ratio	Lower	Upper
85	100		
135	67.7	52.6	79.0



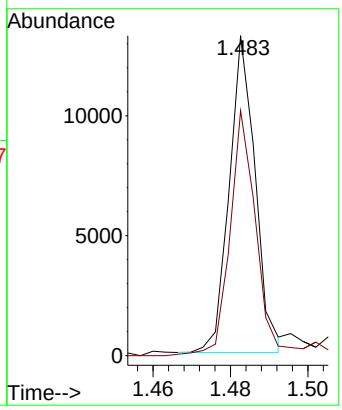


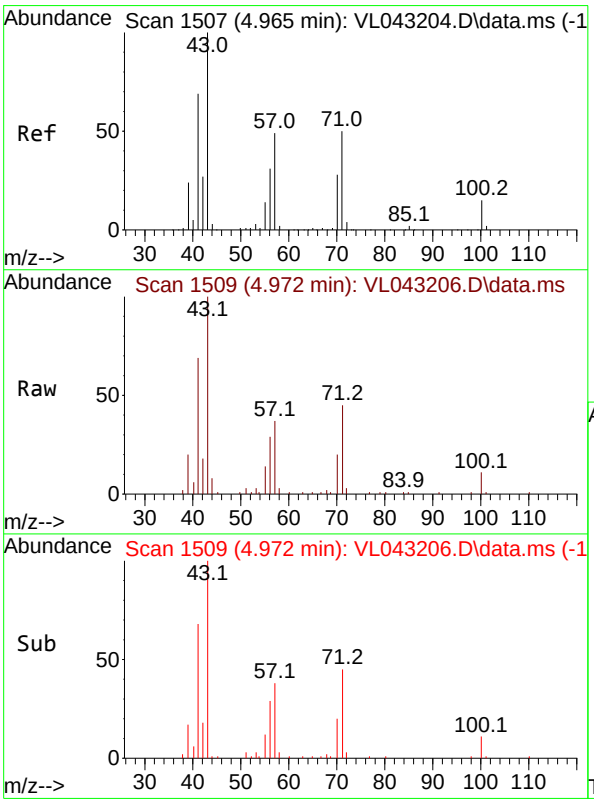
#9
Propene
Concen: 0.929 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 6147

Ion	Ratio	Lower	Upper
41	100		
42	80.0	3.7	5.5#

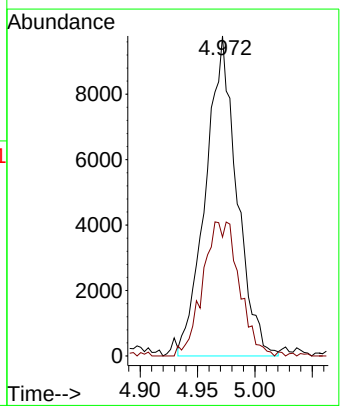


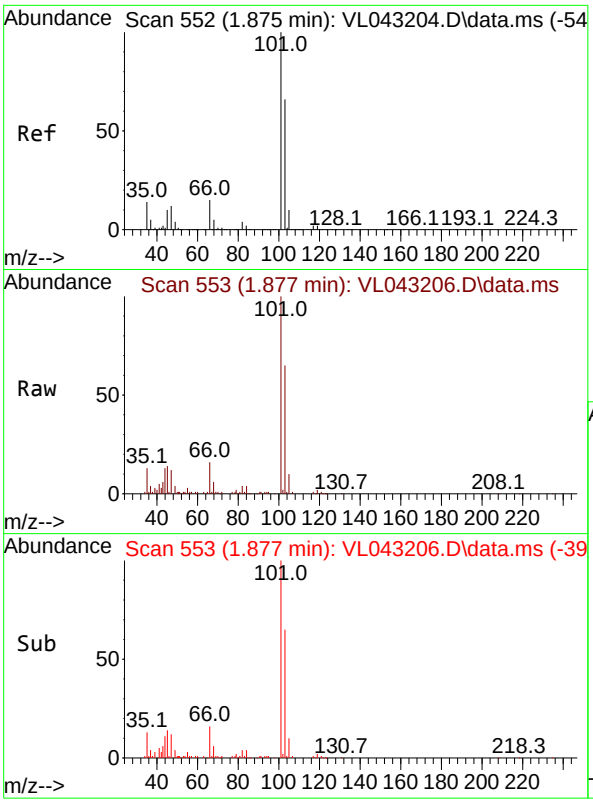


#10
Heptane
Concen: 1.022 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 18544

Ion	Ratio	Lower	Upper
43	100		
57	49.3	39.7	59.5



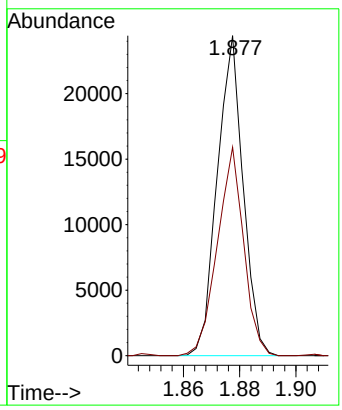


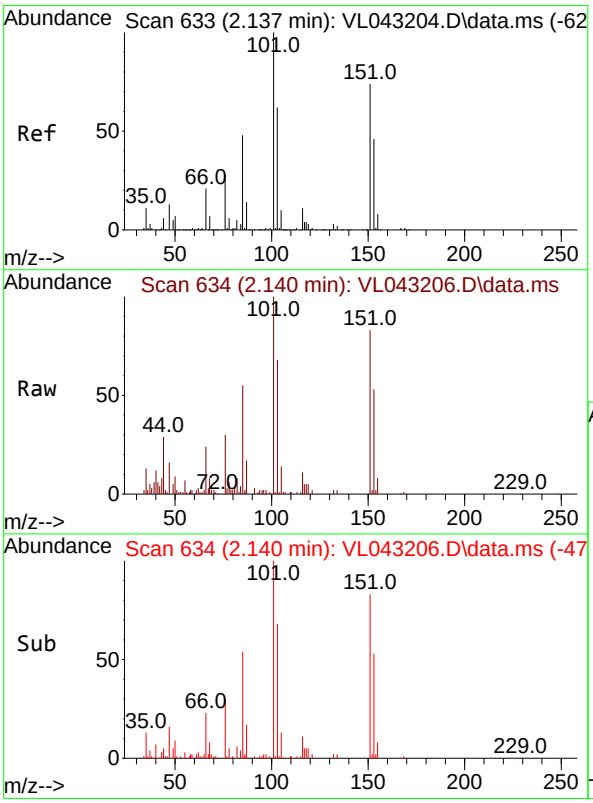
#11
Trichlorofluoromethane
Concen: 1.108 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 15571

Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.6	79.0

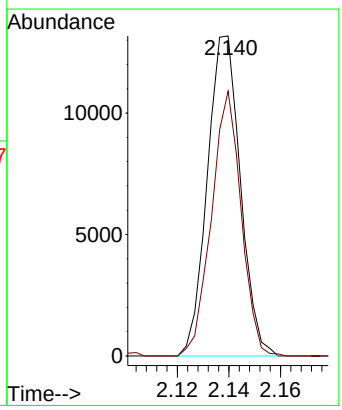


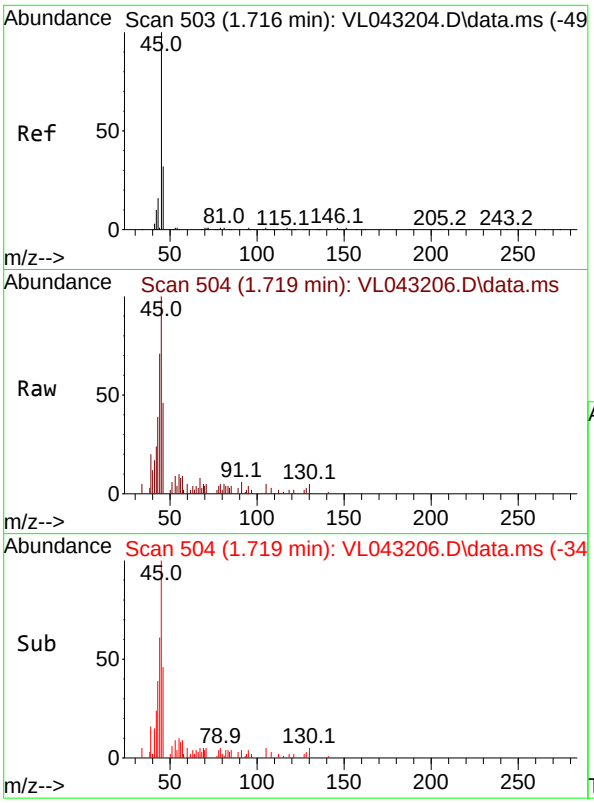


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.071 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:101 Resp: 11743

Ion	Ratio	Lower	Upper
101	100		
151	74.6	59.2	88.8



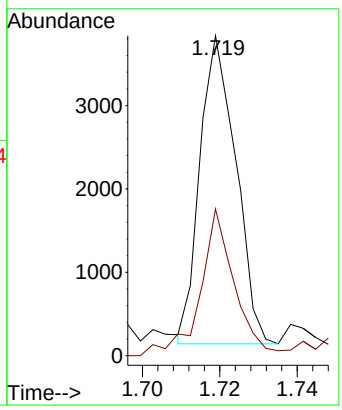


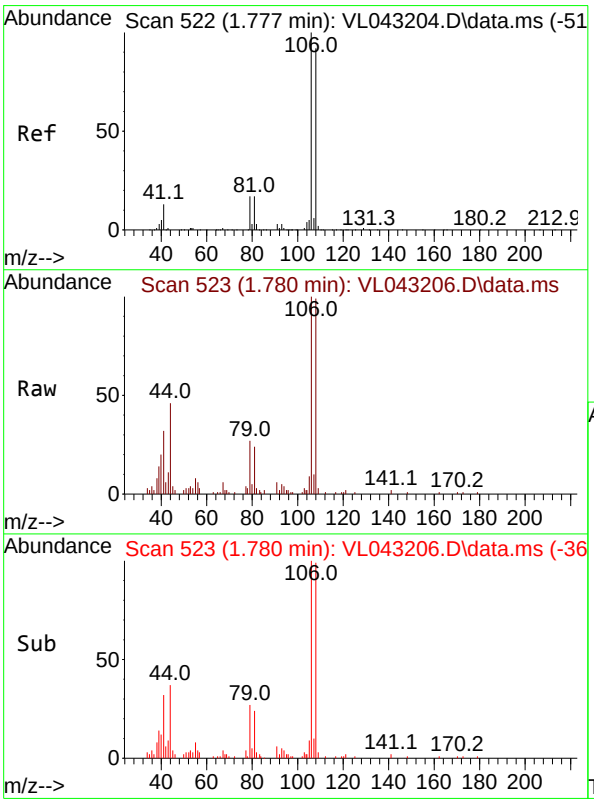
#13
Ethanol
Concen: 1.115 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 2373

Ion	Ratio	Lower	Upper
45	100		
46	57.0	15.0	59.8

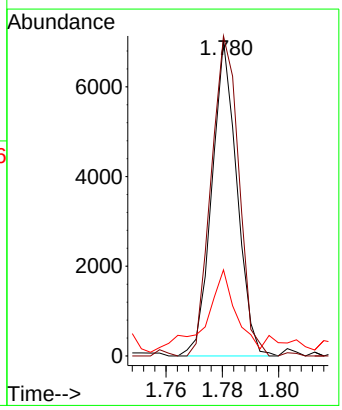


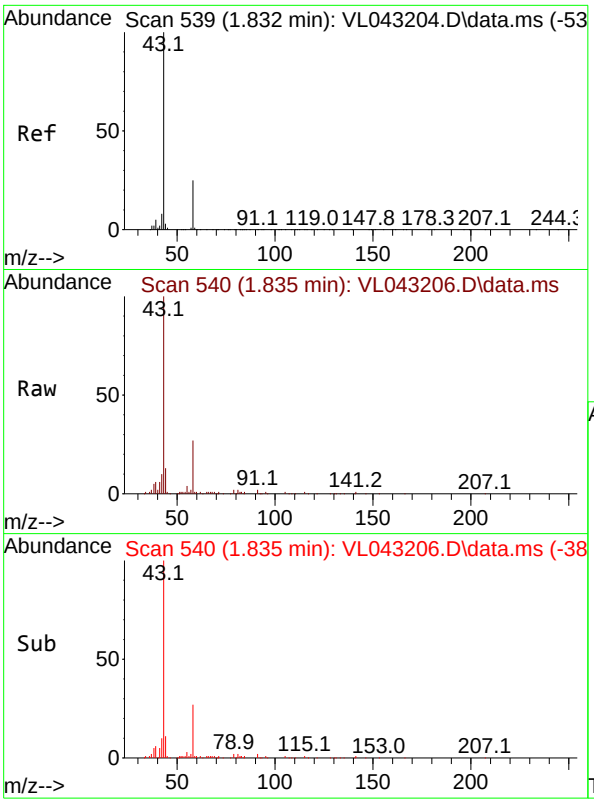


#14
Bromoethene
Concen: 1.033 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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#



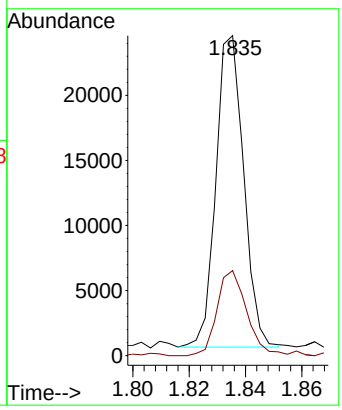


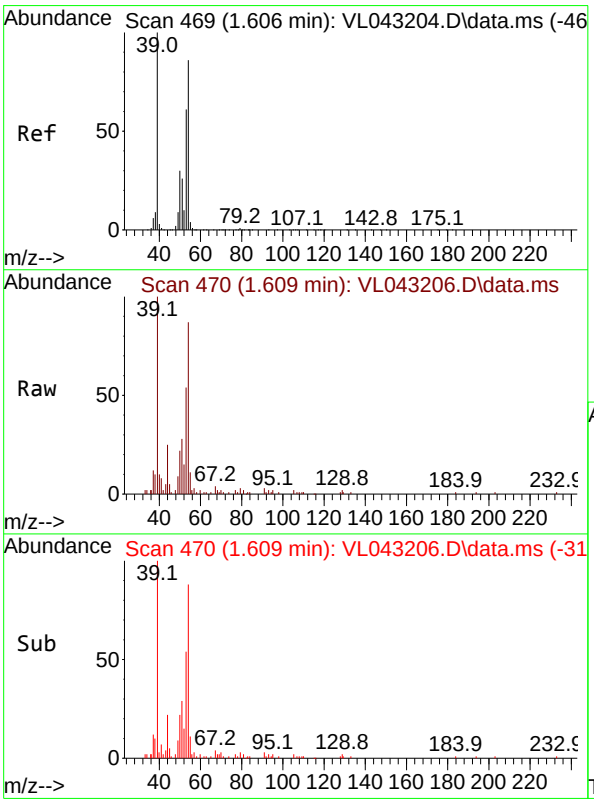
#15
Acetone
Concen: 1.145 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 16353

Ion	Ratio	Lower	Upper
43	100		
58	30.9	20.7	31.1

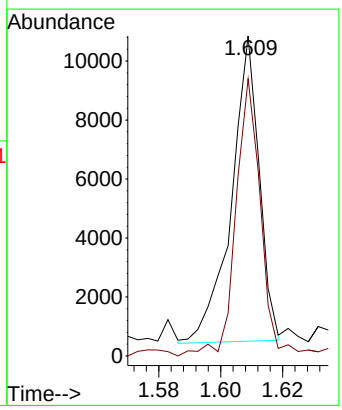


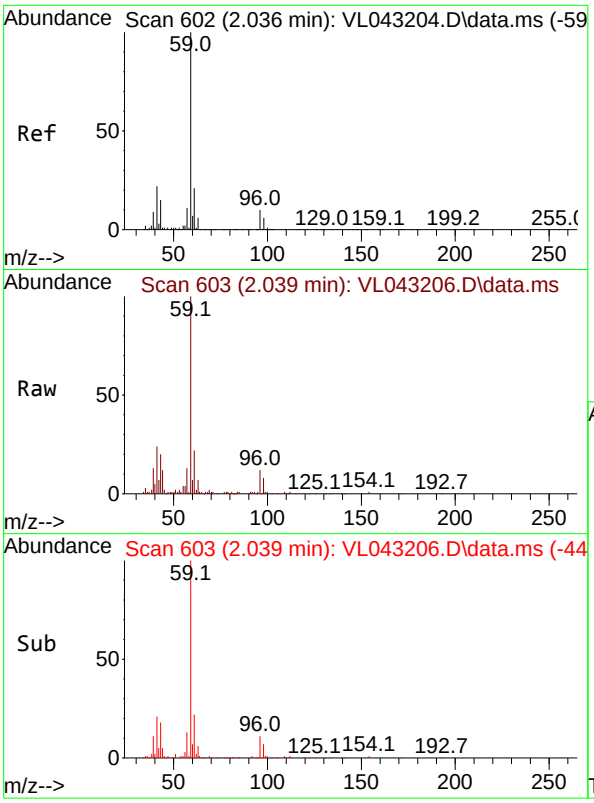


#16
1,3-Butadiene
Concen: 1.016 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 39 Resp: 6469

Ion	Ratio	Lower	Upper
39	100		
54	77.8	59.4	89.2



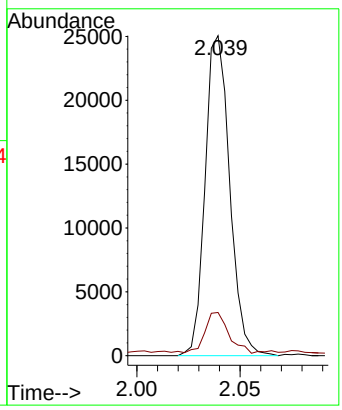


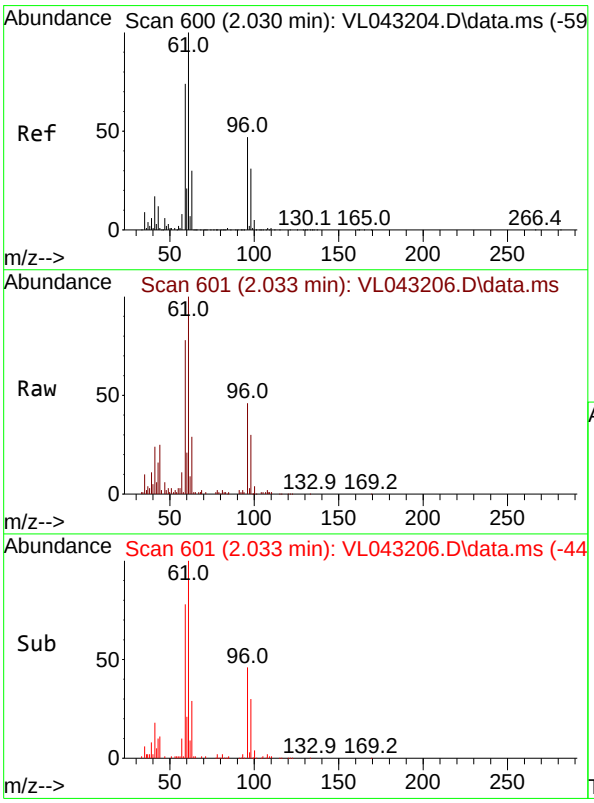
#17
tert-Butyl alcohol
Concen: 1.104 ppbv
RT: 2.039 min Scan# 6(
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 20703

Ion	Ratio	Lower	Upper
59	100		
57	14.1	9.0	13.4#

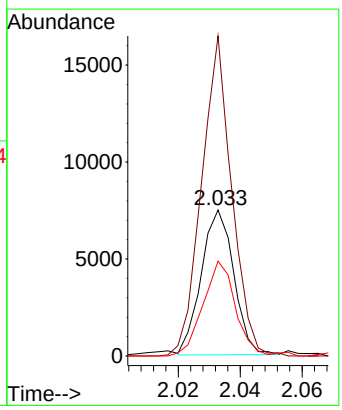


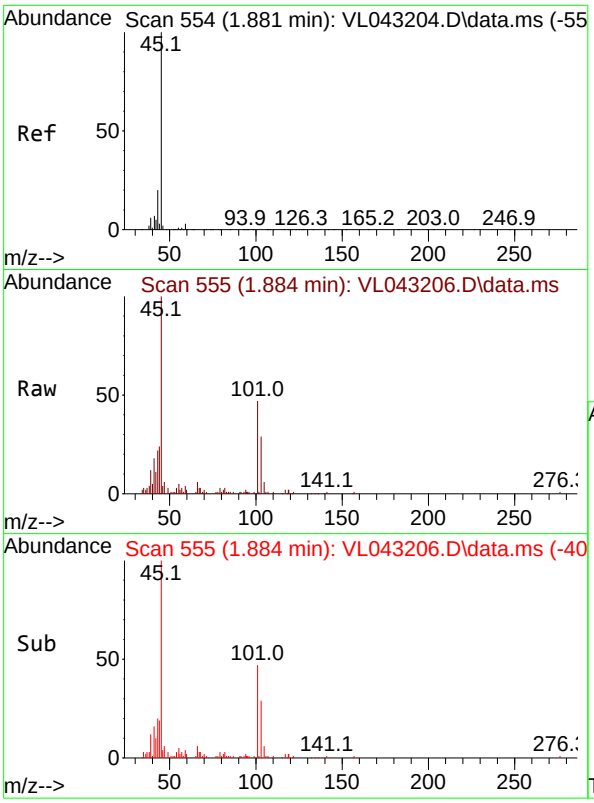


#18
1,1-Dichloroethene
Concen: 1.067 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



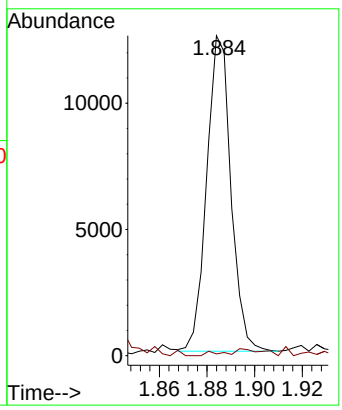


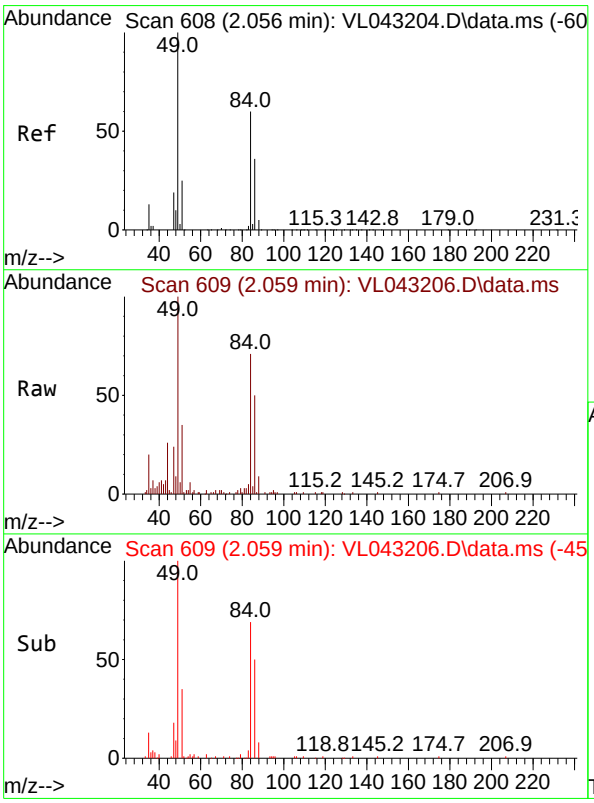
#19
Isopropyl Alcohol
Concen: 1.097 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 8849

Ion	Ratio	Lower	Upper
45	100		
58	4.0	31.3	46.9#

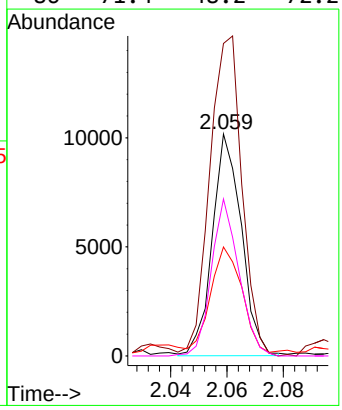


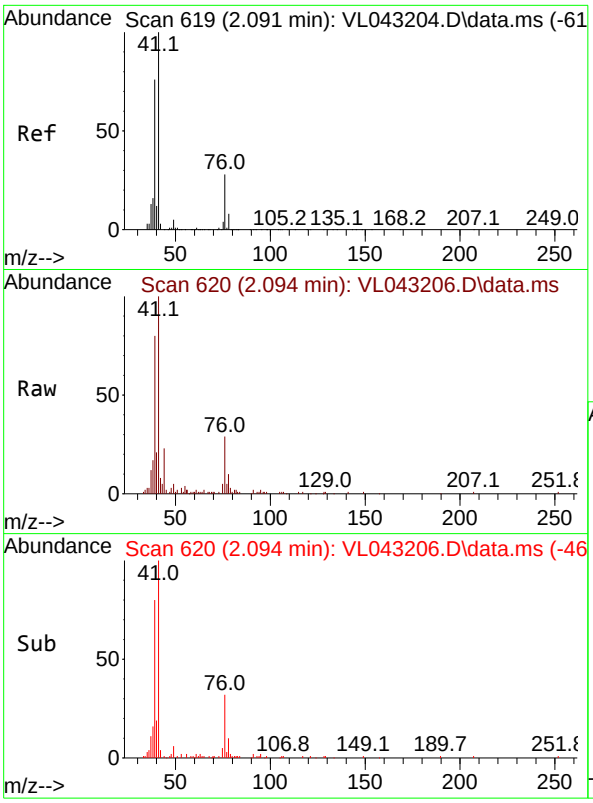


#20
Methylene Chloride
Concen: 1.030 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



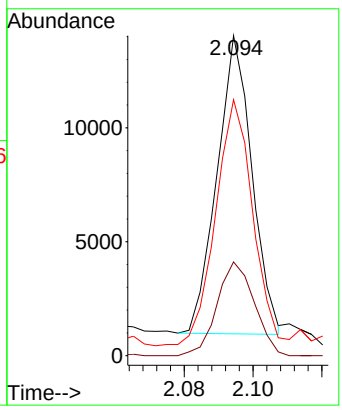


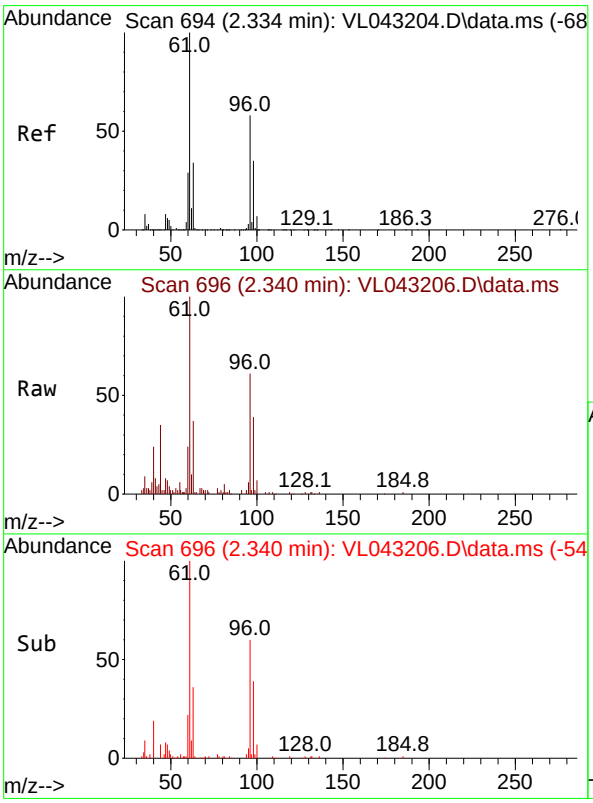
#21
Allyl Chloride
Concen: 0.957 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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#

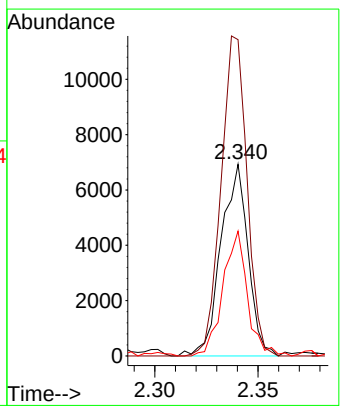


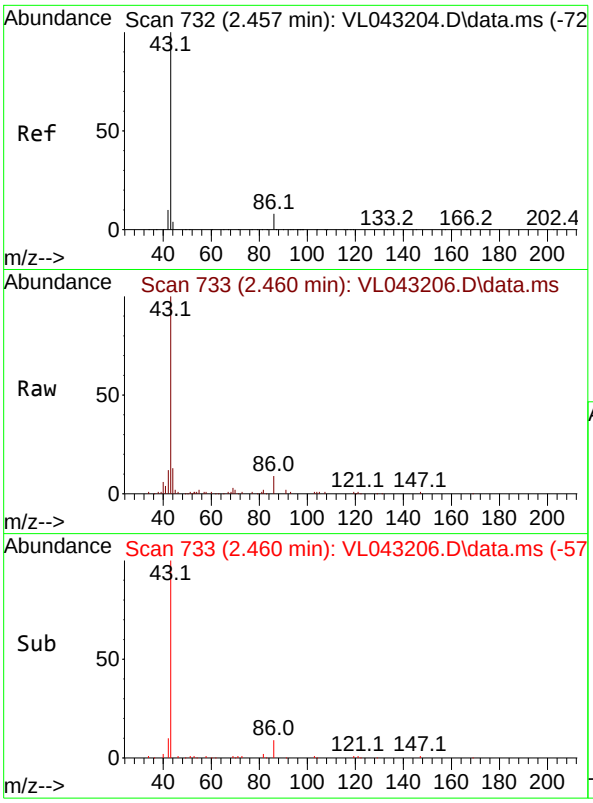


#22
trans-1,2-Dichloroethene
Concen: 1.082 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



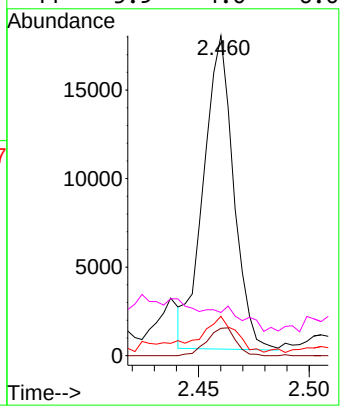


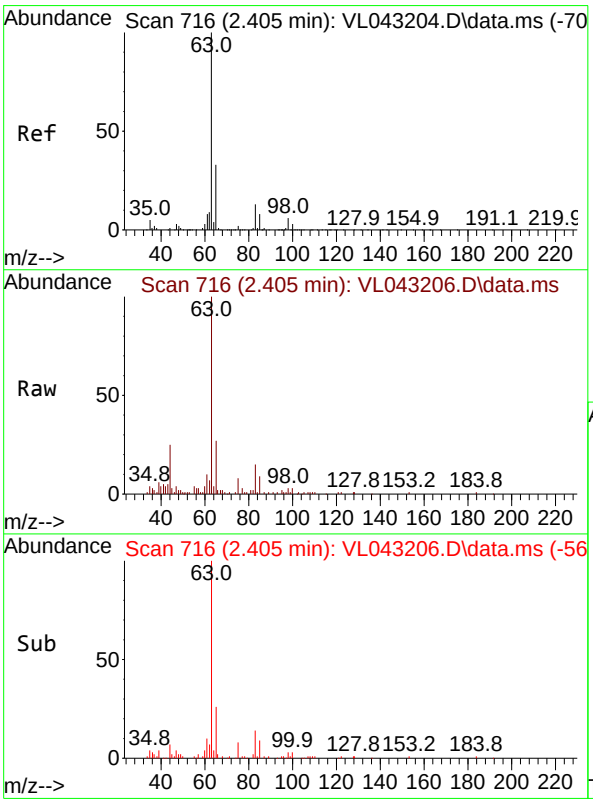
#23
Vinyl Acetate
Concen: 0.973 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

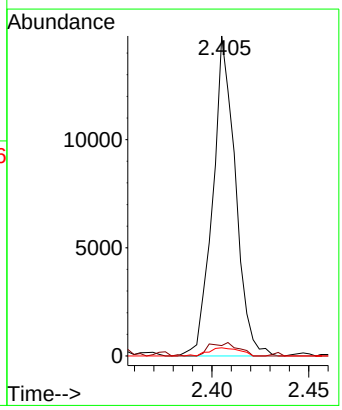


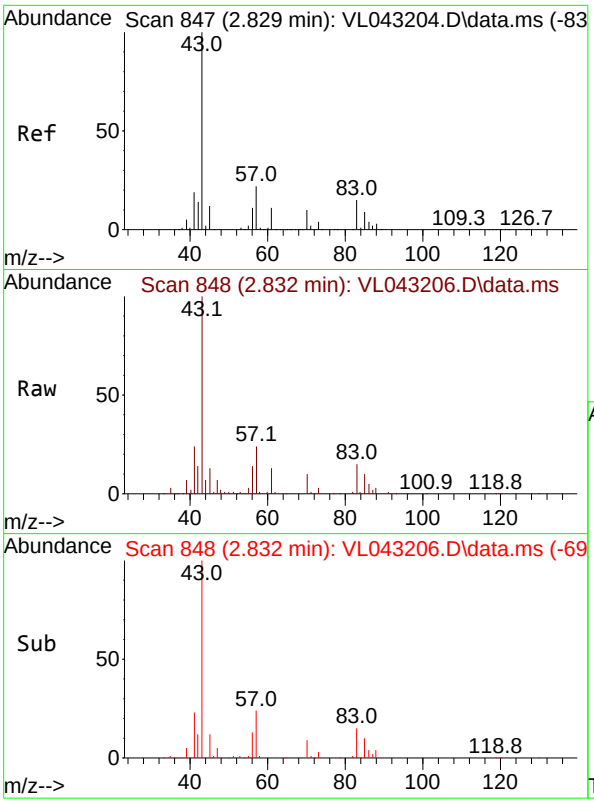


#24
1,1-Dichloroethane
Concen: 1.071 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



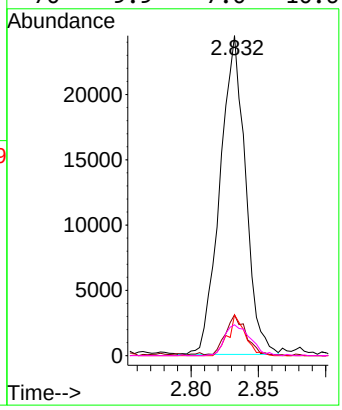


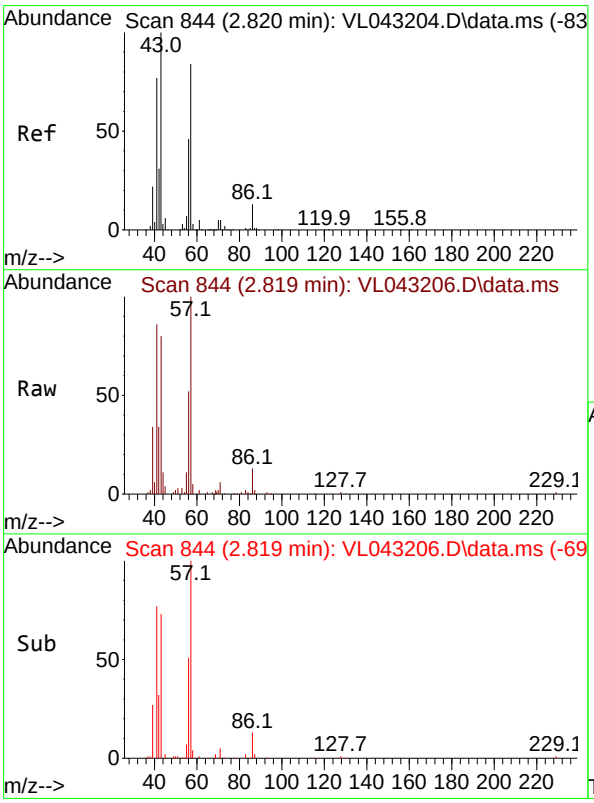
#25
Ethyl Acetate
Concen: 1.041 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

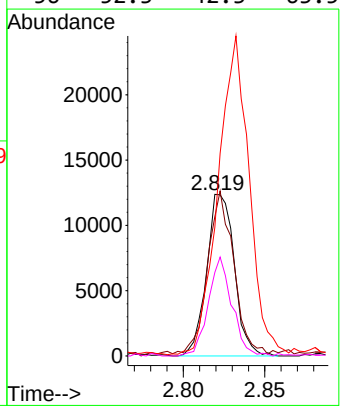


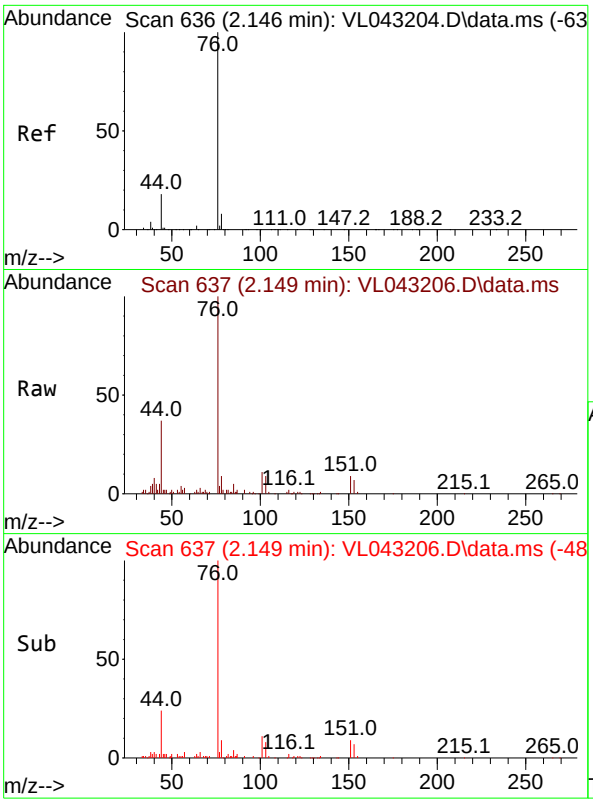


#26
Hexane
Concen: 1.084 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



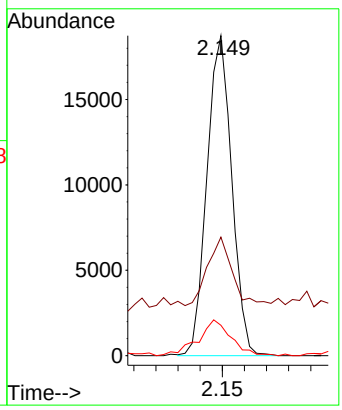


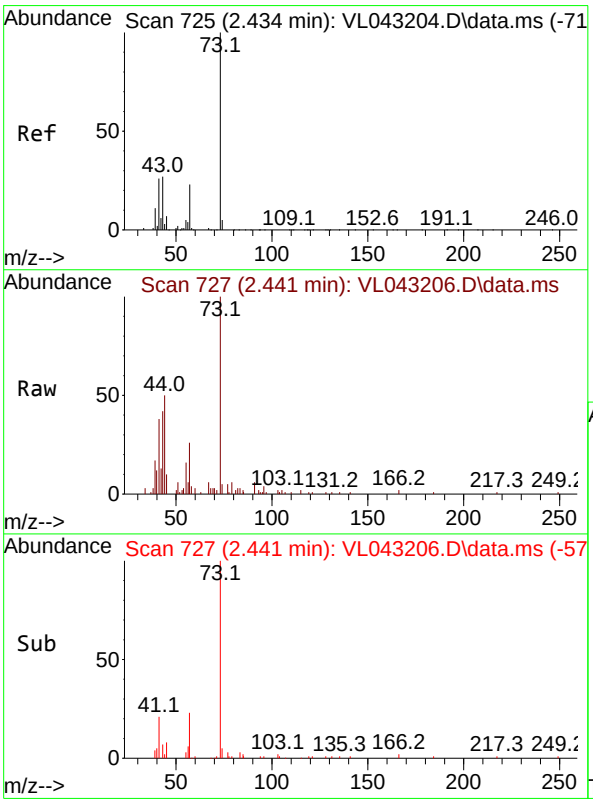
#27
Carbon Disulfide
Concen: 1.062 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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#

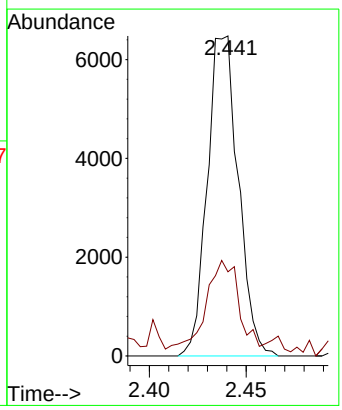


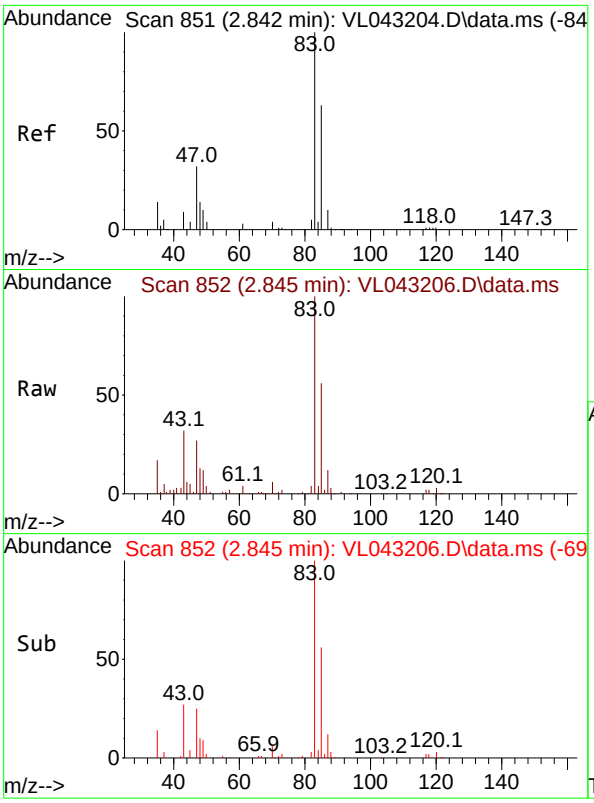


#28
Methyl tert-Butyl Ether
Concen: 1.092 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 73 Resp: 7236

Ion	Ratio	Lower	Upper
73	100		
57	33.1	19.8	29.8#



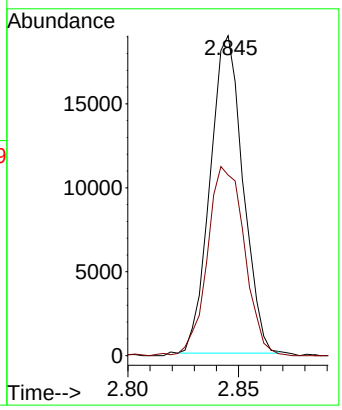


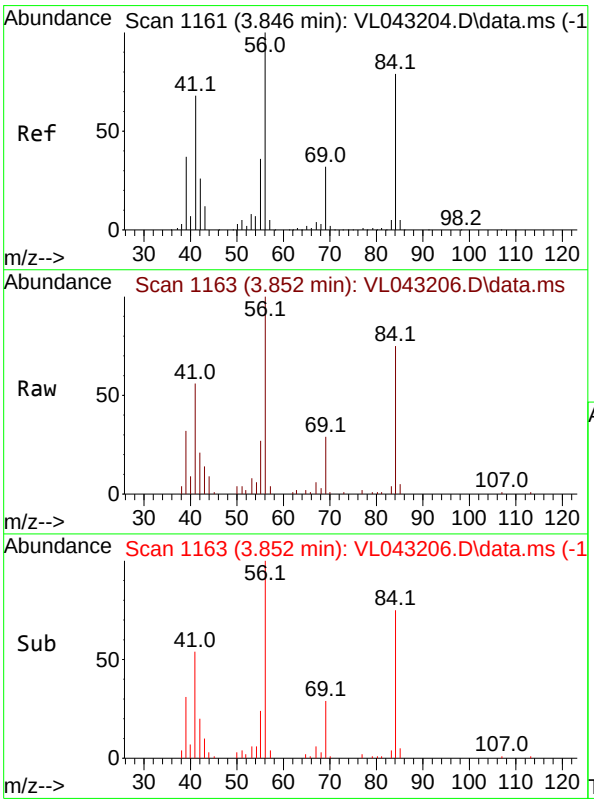
#29
Chloroform
Concen: 1.016 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 19509

Ion	Ratio	Lower	Upper
83	100		
85	56.3	50.5	75.7

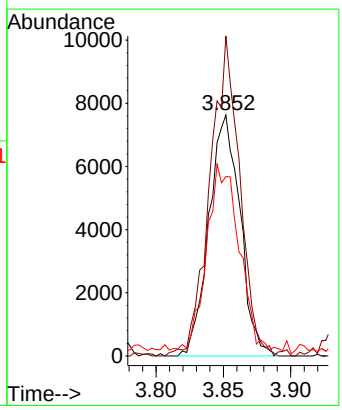


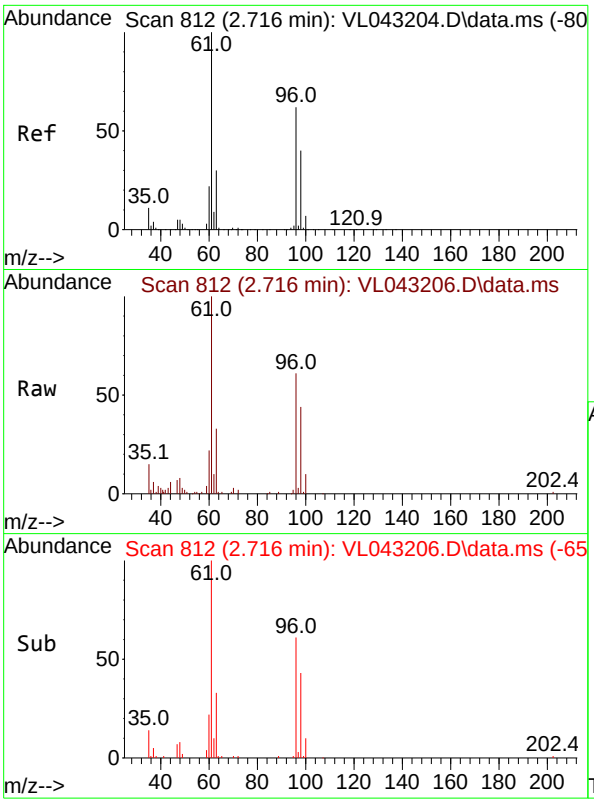


#30
Cyclohexane
Concen: 1.084 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



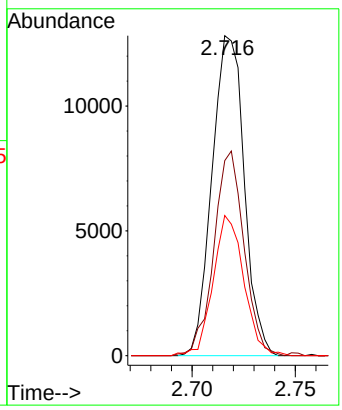


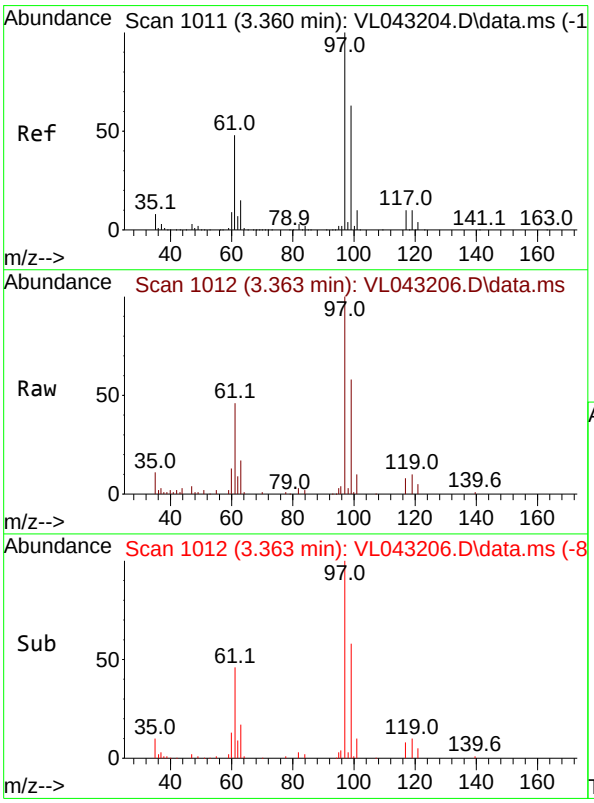
#31
cis-1,2-Dichloroethene
Concen: 1.035 ppbv
RT: 2.716 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

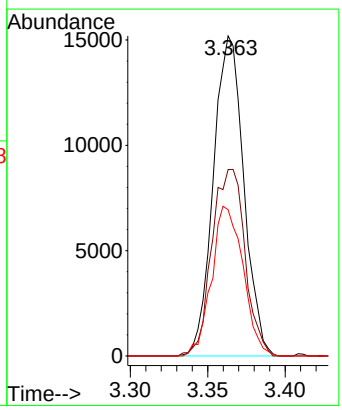


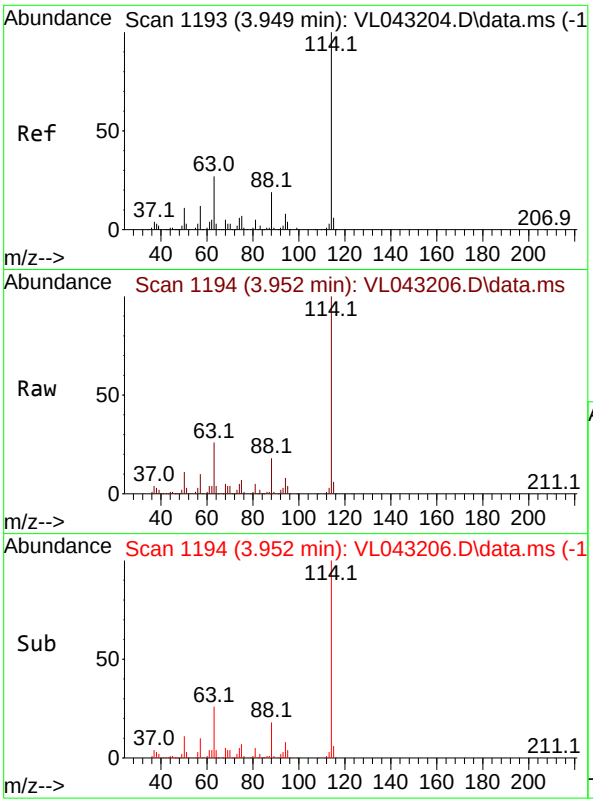


#32
1,1,1-Trichloroethane
Concen: 1.005 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



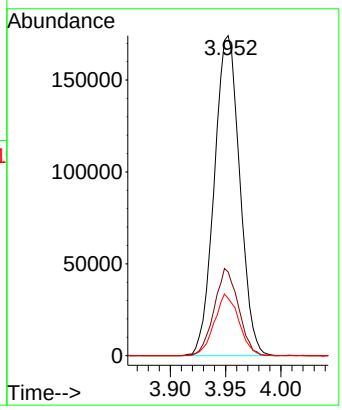


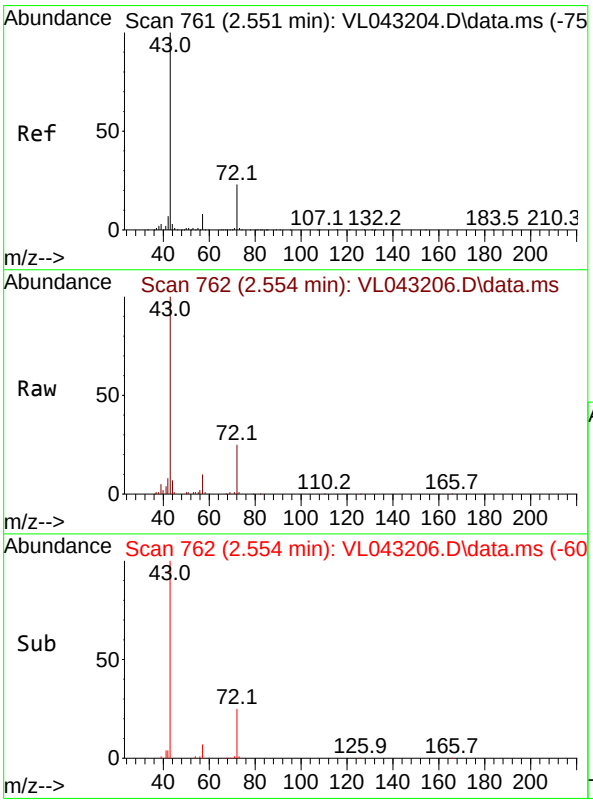
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

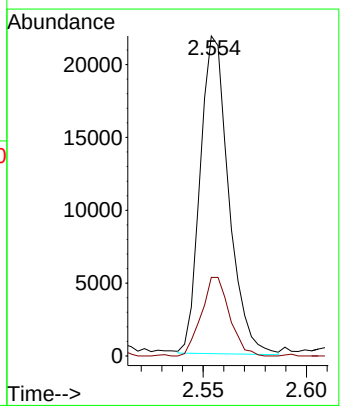


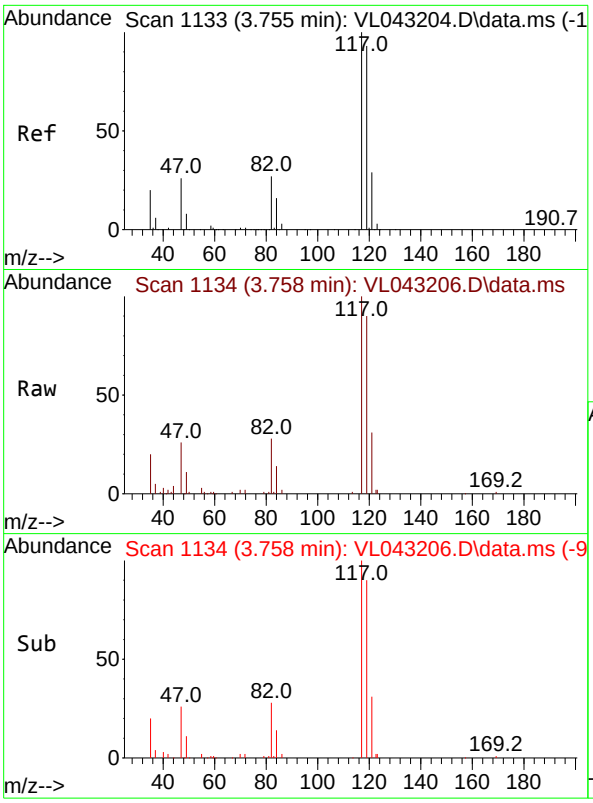


#34
2-Butanone
Concen: 1.064 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 20940

Ion	Ratio	Lower	Upper
43	100		
72	24.7	18.1	27.1



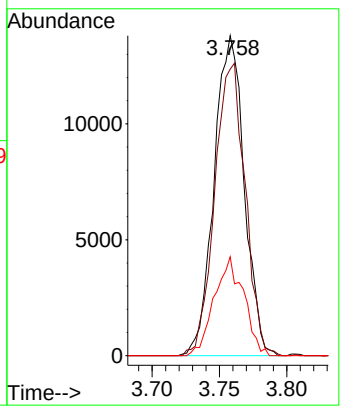


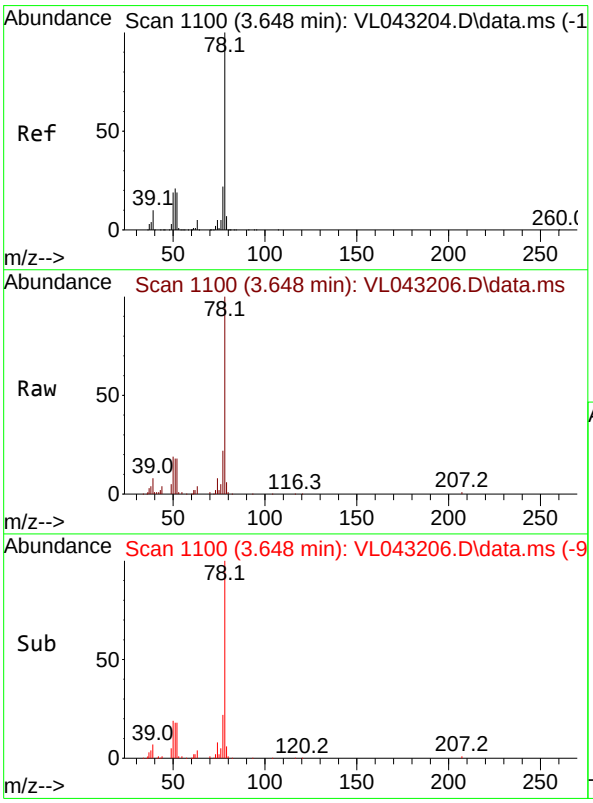
#35
Carbon Tetrachloride
Concen: 1.016 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

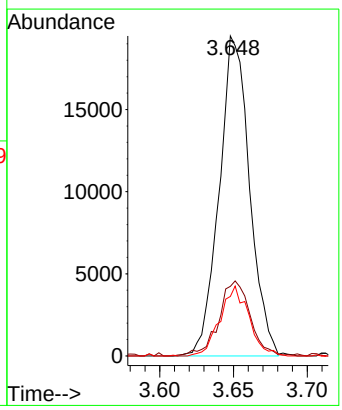


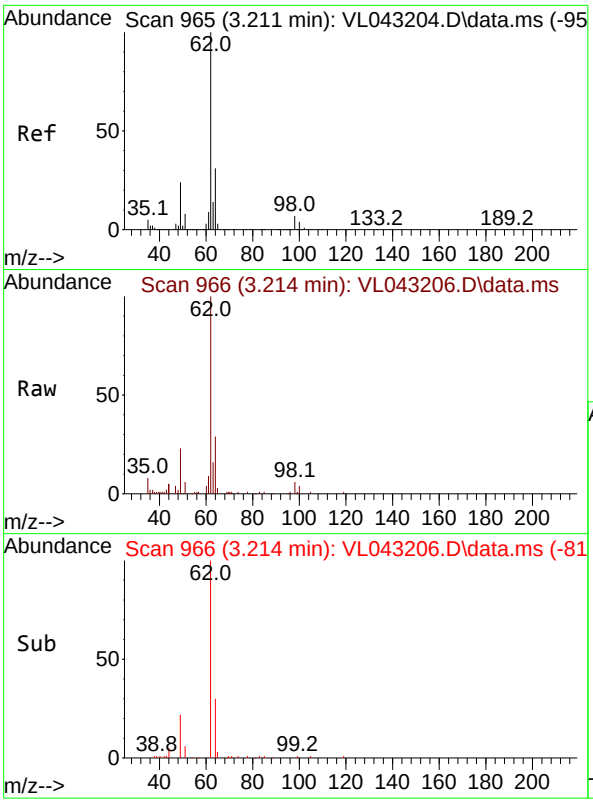


#36
Benzene
Concen: 1.046 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



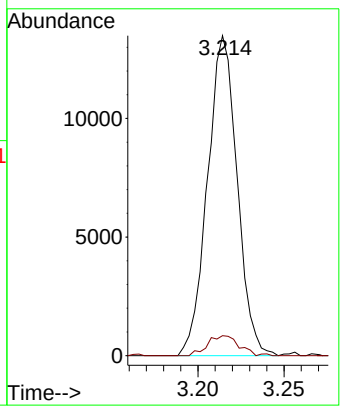


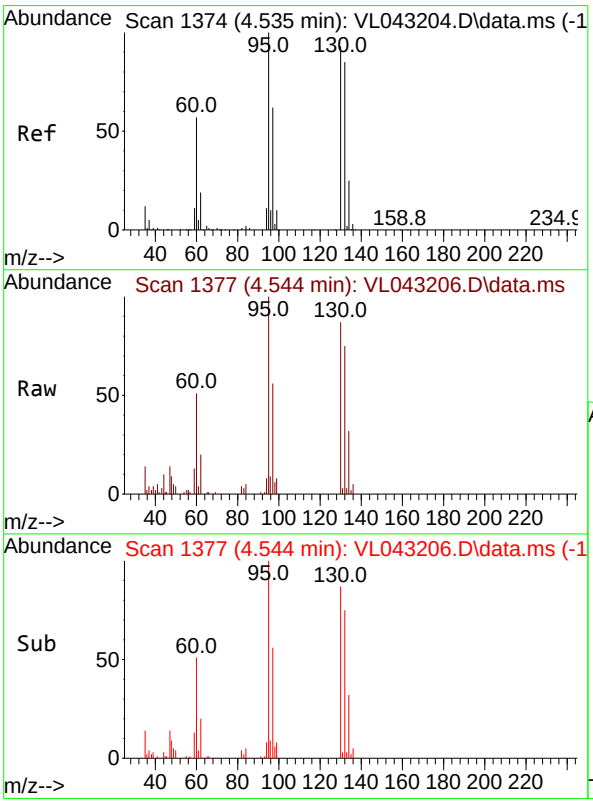
#37
1,2-Dichloroethane
Concen: 1.035 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 16159

Ion	Ratio	Lower	Upper
62	100		
98	6.7	5.5	8.3

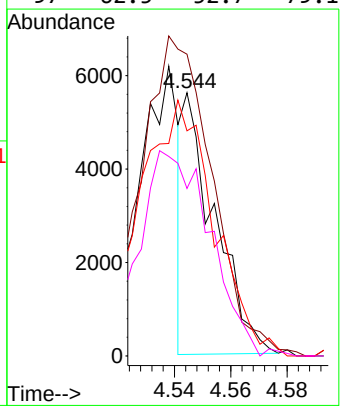


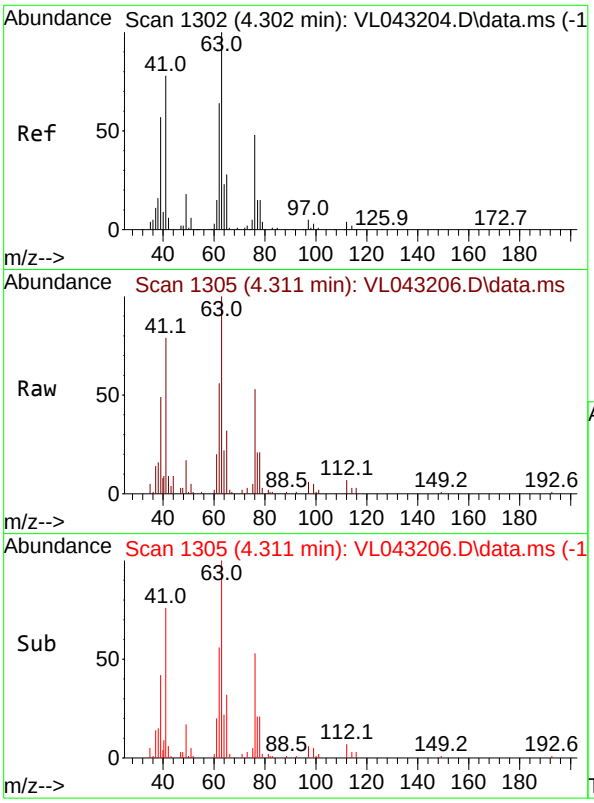


#38
Trichloroethene
Concen: 0.414 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



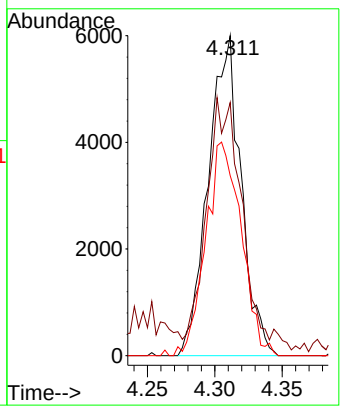


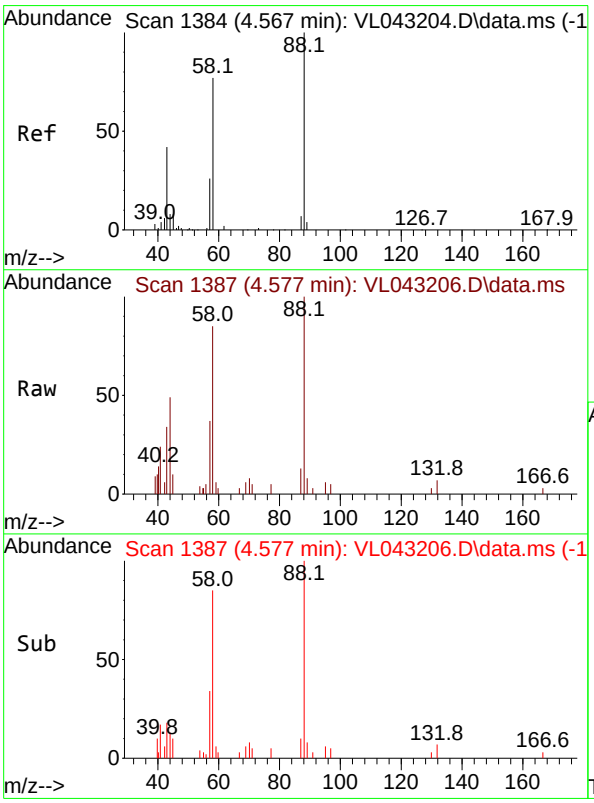
#39
1,2-Dichloropropane
Concen: 1.039 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

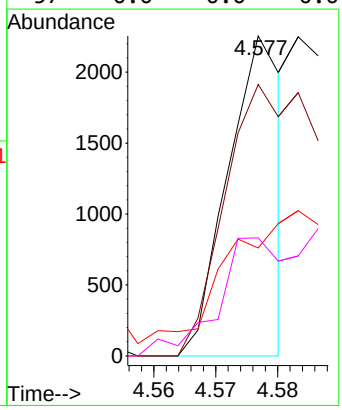


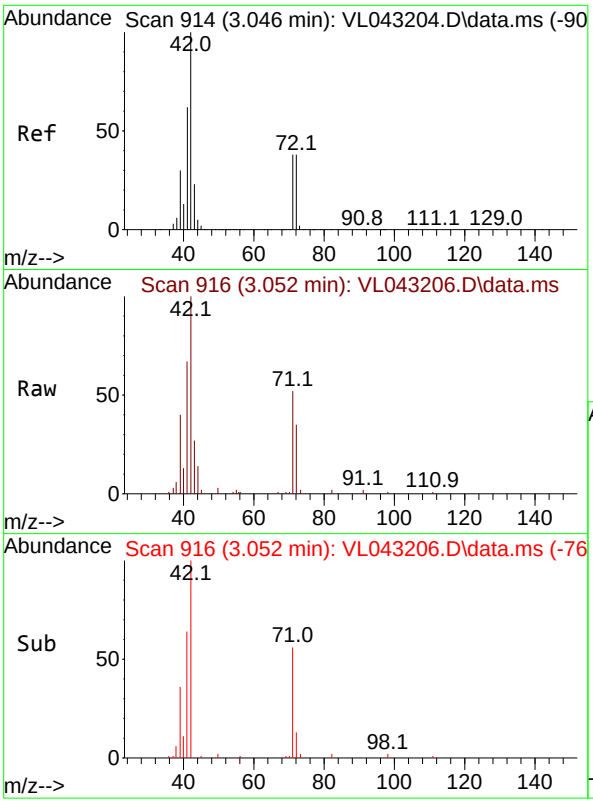


#40
1,4-Dioxane
Concen: 0.312 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



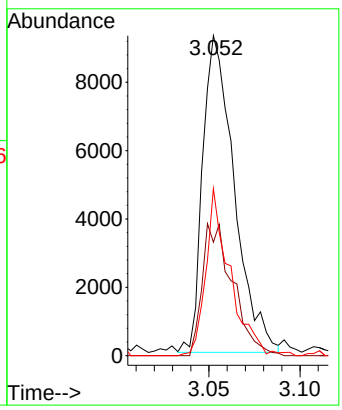


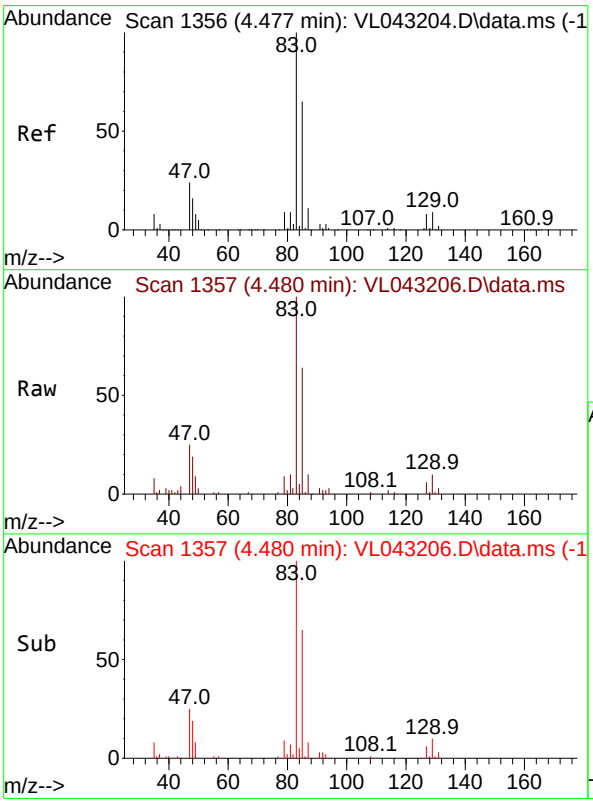
#41
Tetrahydrofuran
Concen: 1.029 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

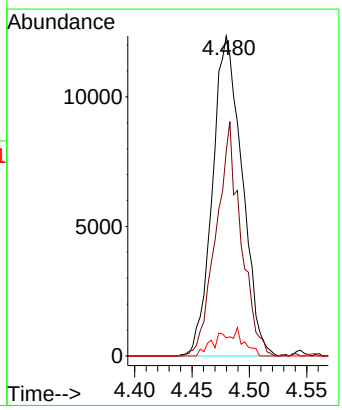


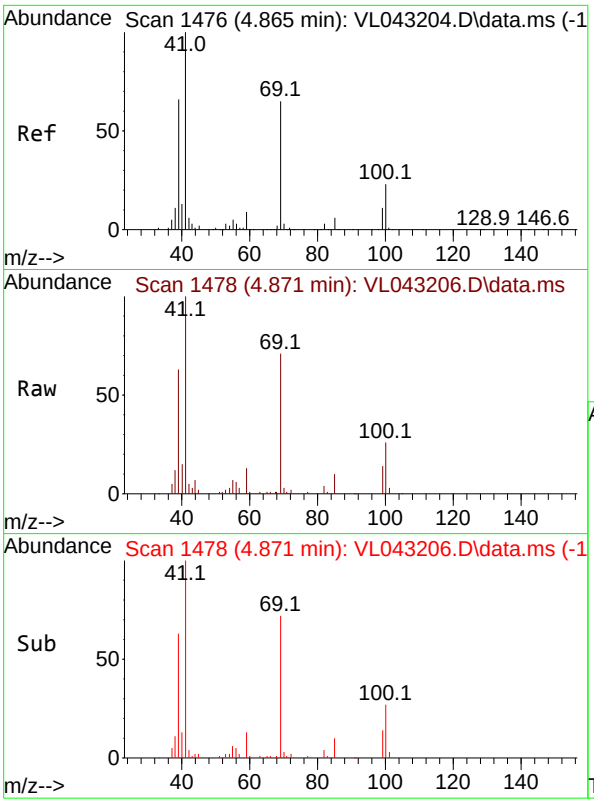


#42
Bromodichloromethane
Concen: 1.028 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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#



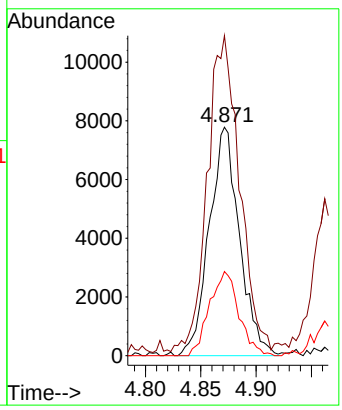


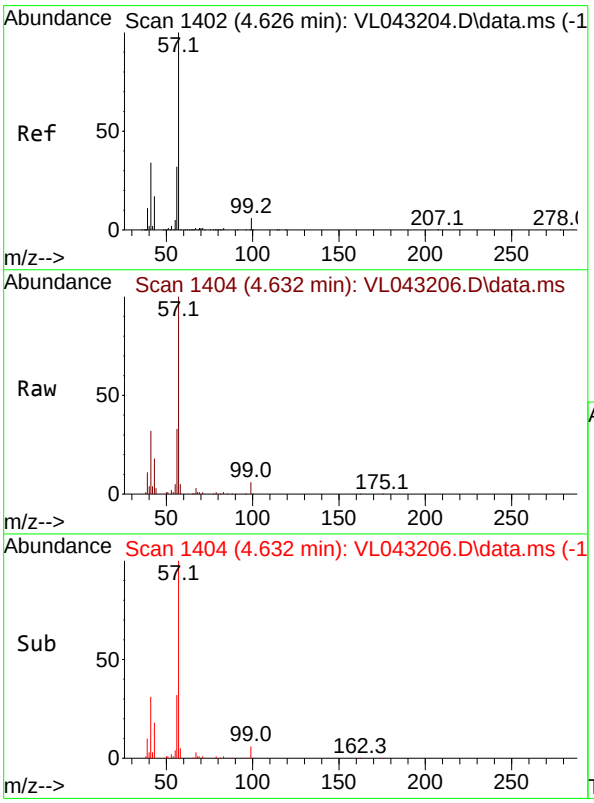
#43
Methyl Methacrylate
Concen: 1.046 ppbv
RT: 4.871 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

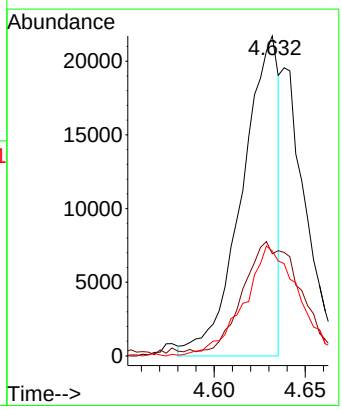


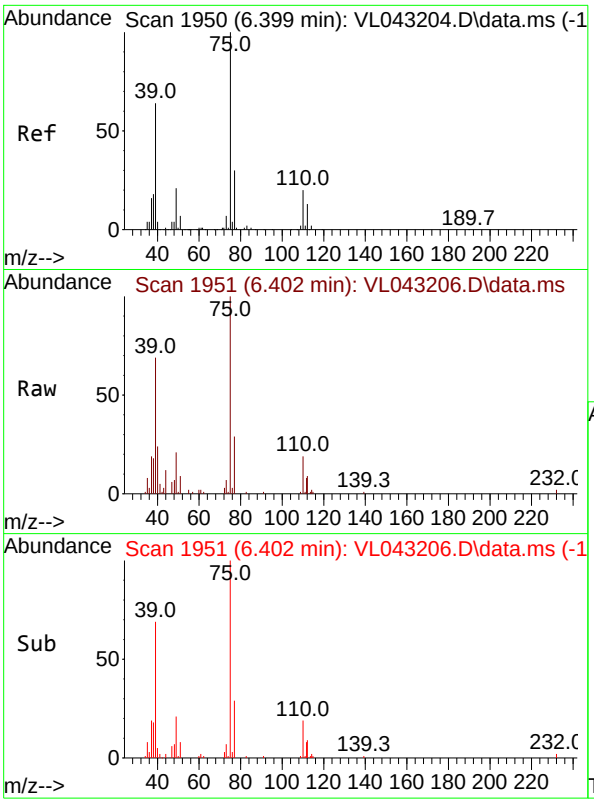


#44
2,2,4-Trimethylpentane
Concen: 0.662 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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#



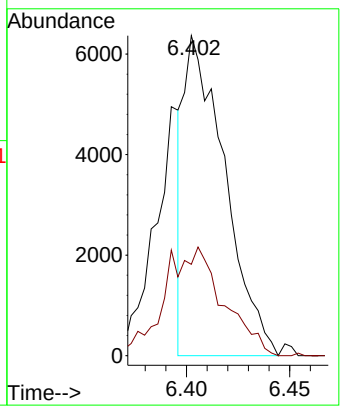


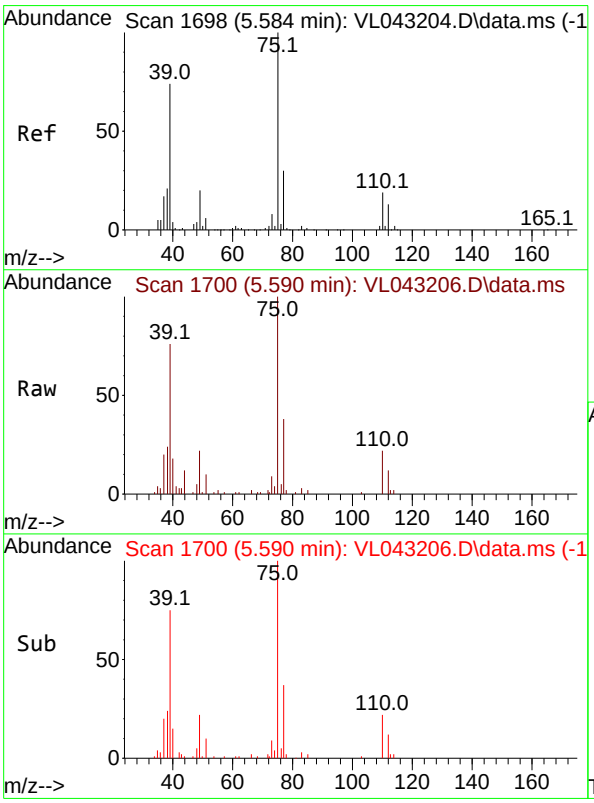
#45
t-1,3-Dichloropropene
Concen: 0.663 ppbv
RT: 6.402 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 8750

Ion	Ratio	Lower	Upper
75	100		
77	28.5	24.3	36.5

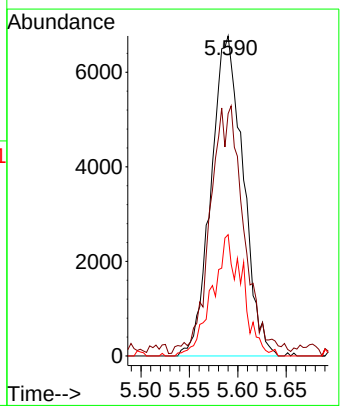


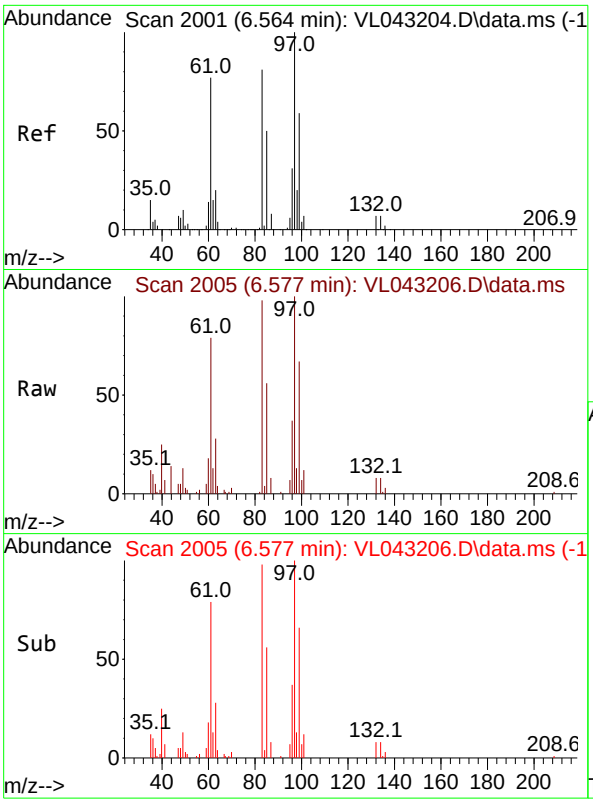


#46
cis-1,3-Dichloropropene
Concen: 1.001 ppbv
RT: 5.590 min Scan# 1700
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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#



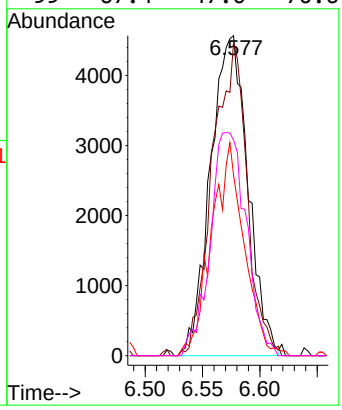


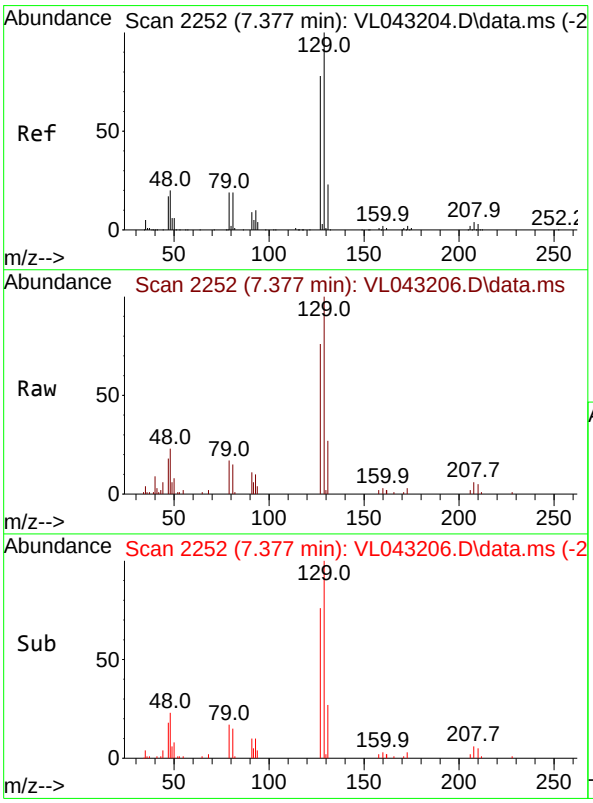
#47
1,1,2-Trichloroethane
Concen: 0.995 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

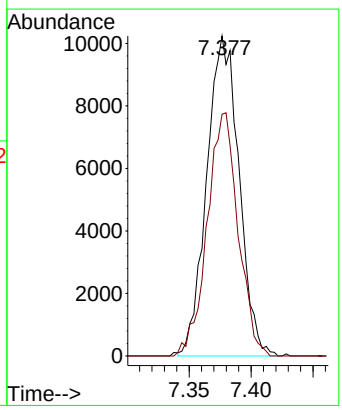


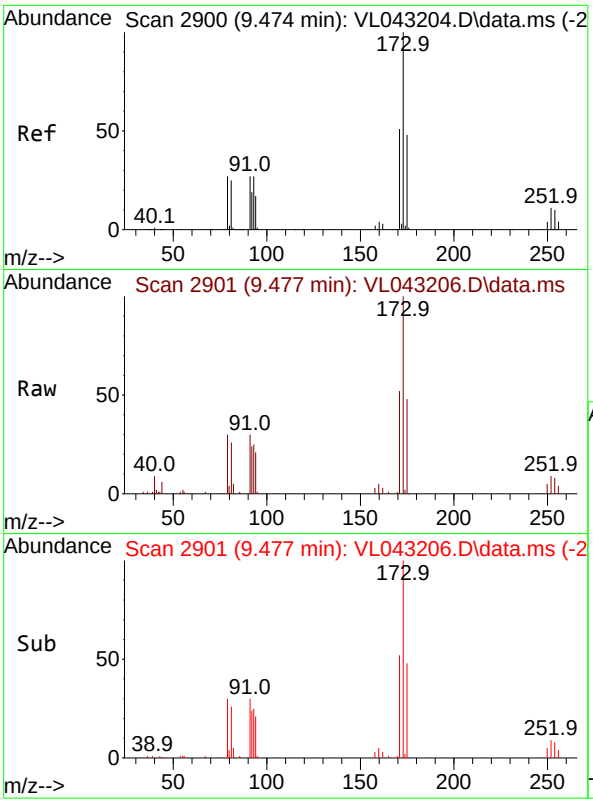


#48
Dibromochloromethane
Concen: 1.041 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:129 Resp: 18560

Ion	Ratio	Lower	Upper
129	100		
127	72.8	39.3	117.9



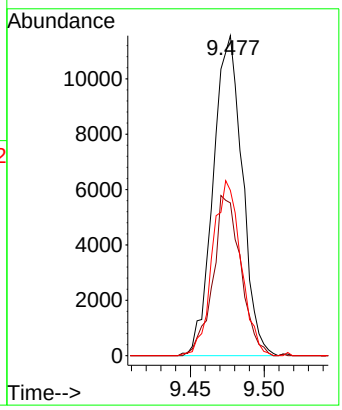


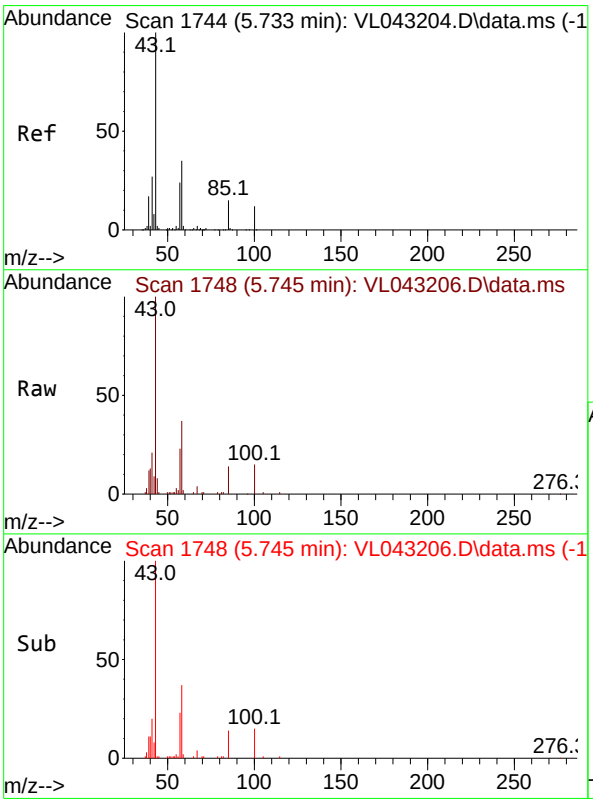
#49
Bromoform
Concen: 1.004 ppbv
RT: 9.477 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

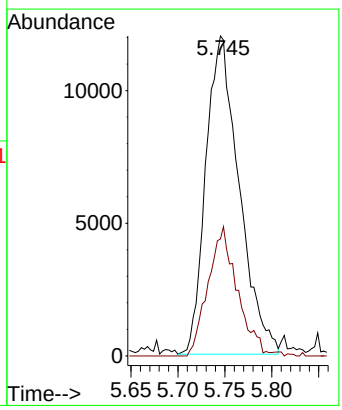


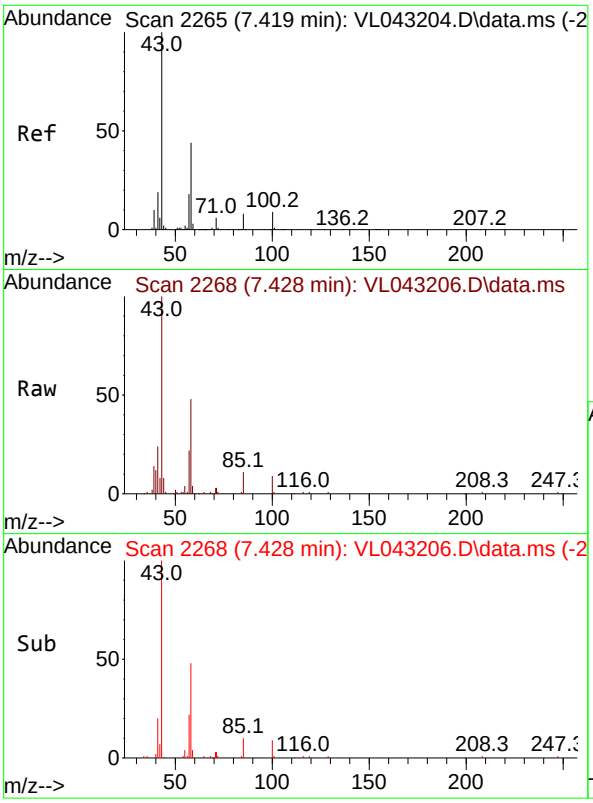


#50
4-Methyl-2-Pentanone
Concen: 1.067 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.013 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 29560

Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.4	42.6



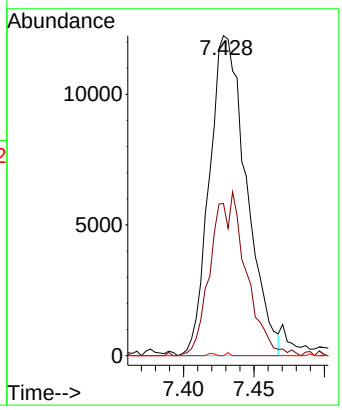


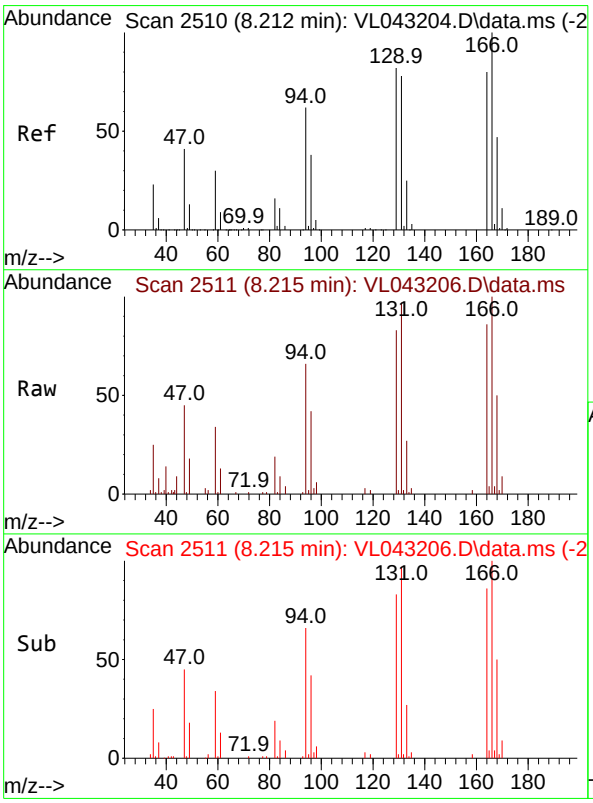
#51
2-Hexanone
Concen: 1.043 ppbv
RT: 7.428 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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#

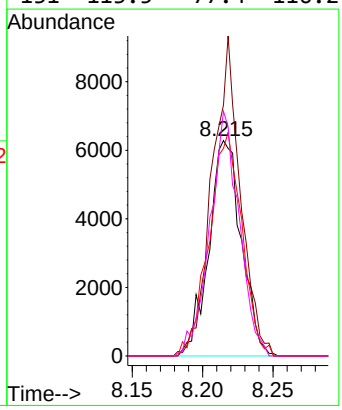


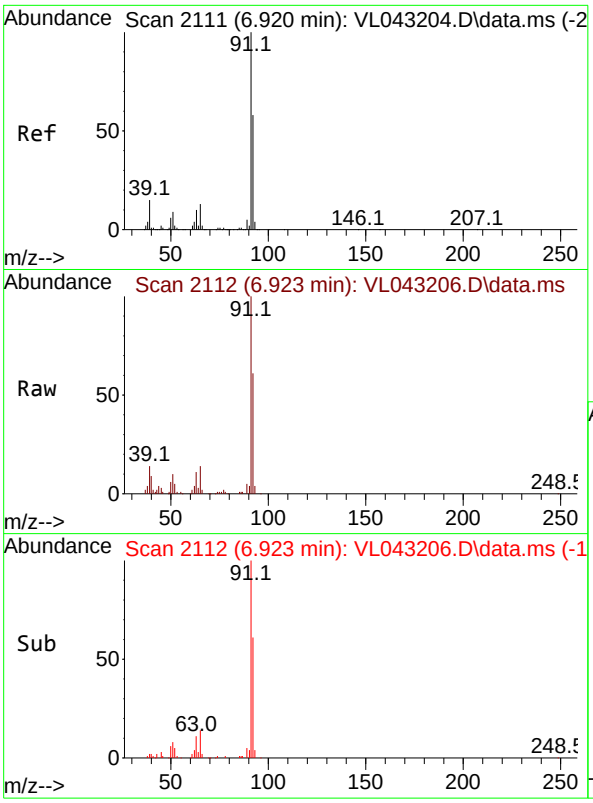


#52
Tetrachloroethene
Concen: 1.015 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



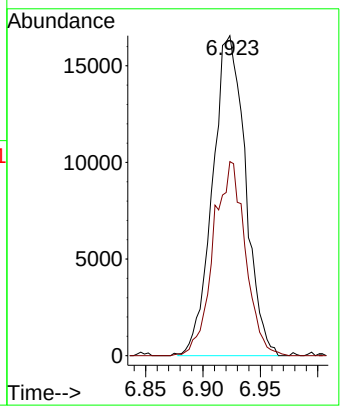


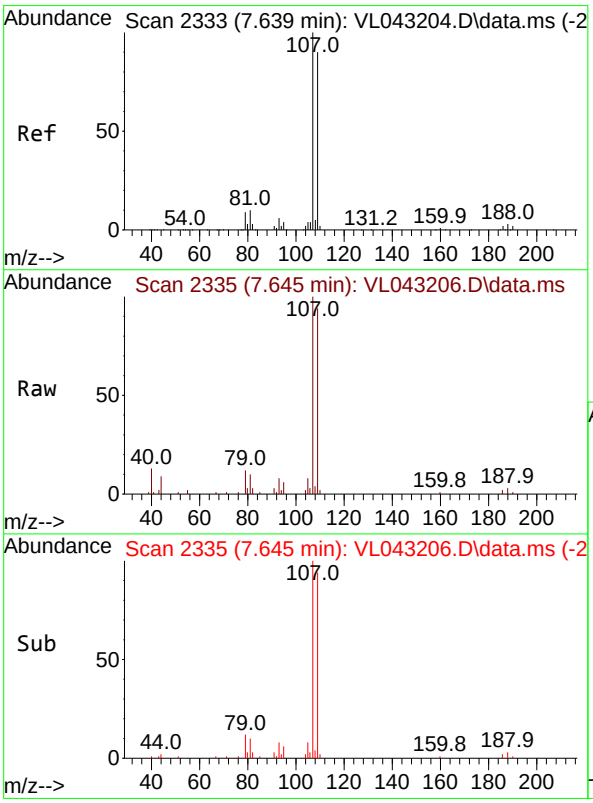
#53
Toluene
Concen: 1.036 ppbv
RT: 6.923 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 32951

Ion	Ratio	Lower	Upper
91	100		
92	59.0	47.4	71.0

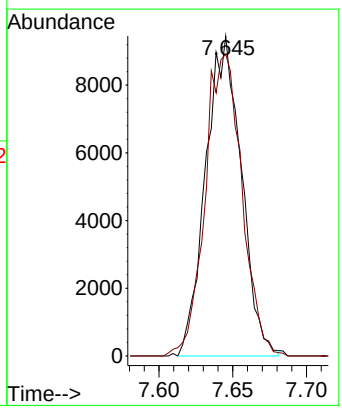


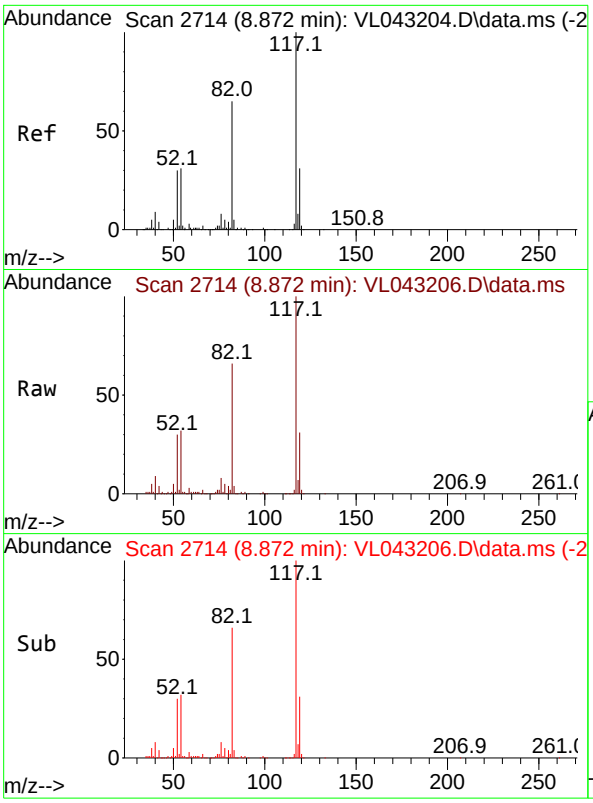


#54
1,2-Dibromoethane
Concen: 1.040 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:107 Resp: 15865

Ion	Ratio	Lower	Upper
107	100		
109	93.3	72.1	108.1



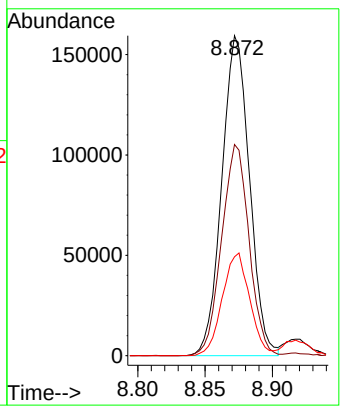


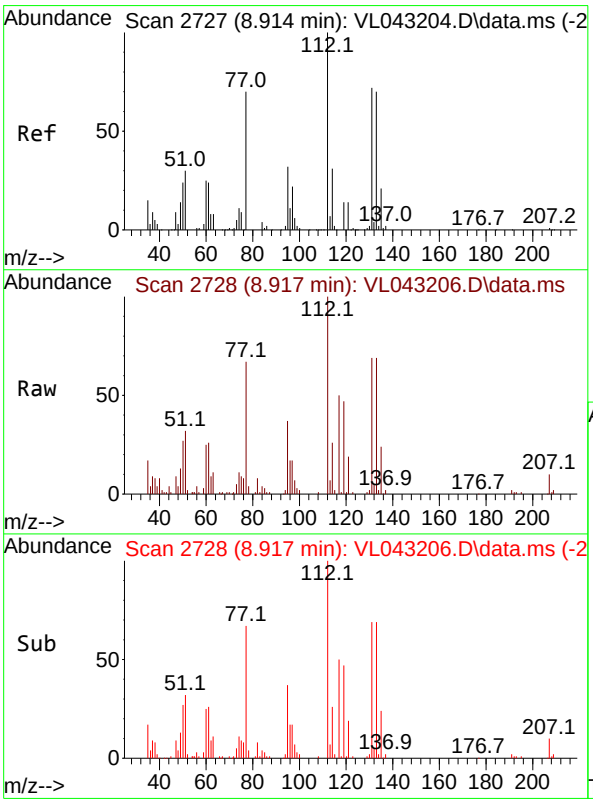
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

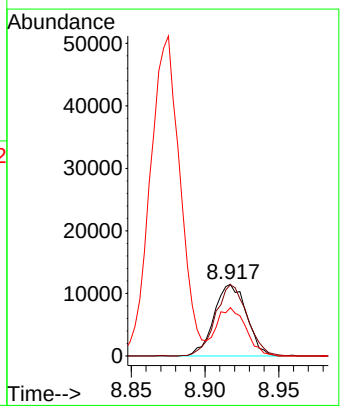


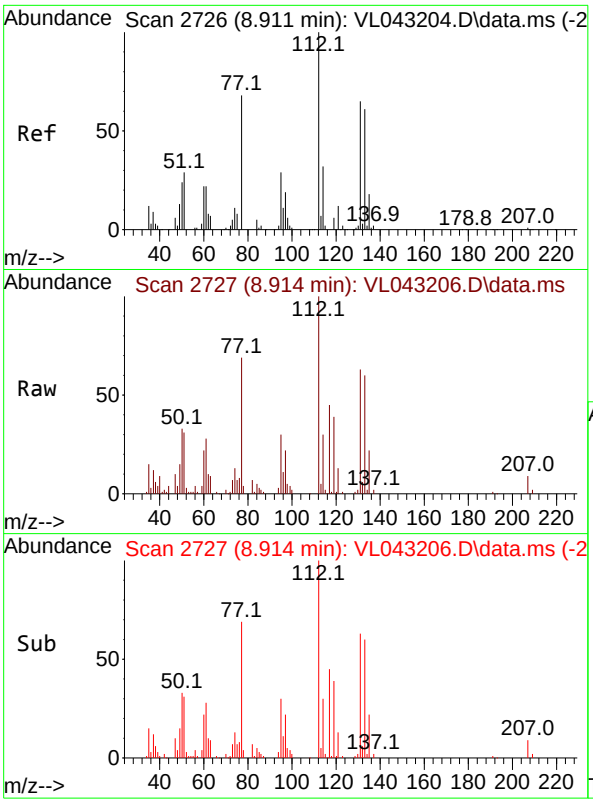


#56
1,1,1,2-Tetrachloroethane
Concen: 1.046 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



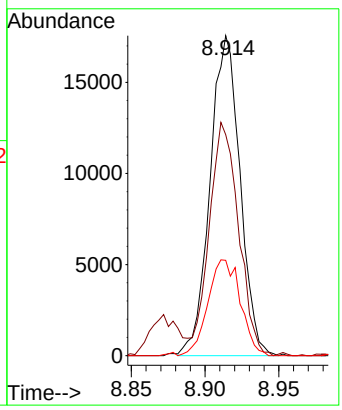


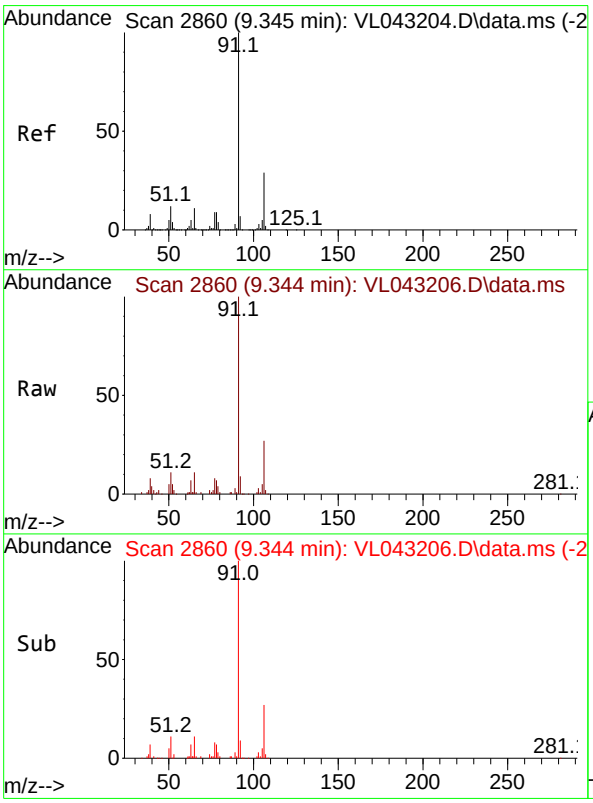
#57
Chlorobenzene
Concen: 1.060 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

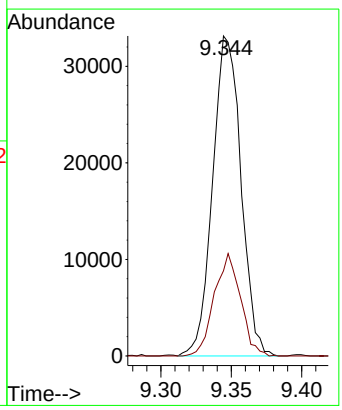


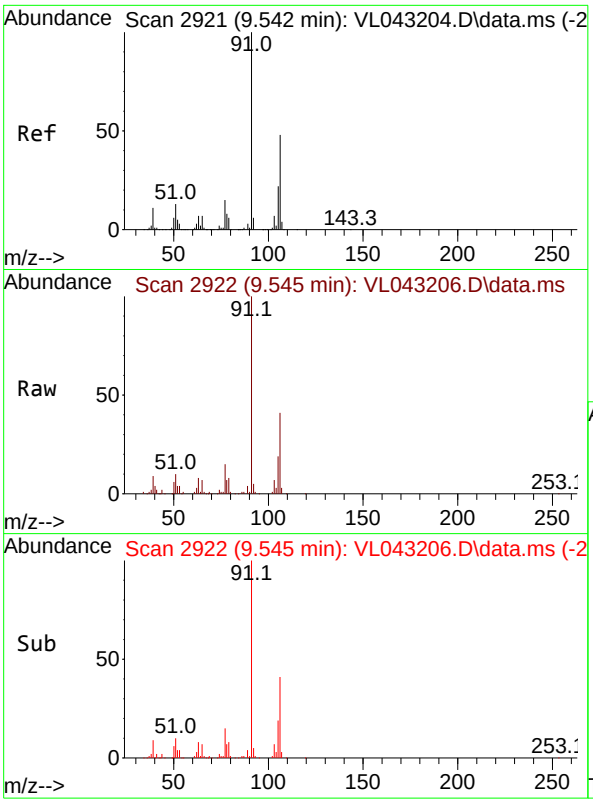


#58
Ethyl Benzene
Concen: 1.059 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 46455

Ion	Ratio	Lower	Upper
91	100		
106	26.6	22.8	34.2



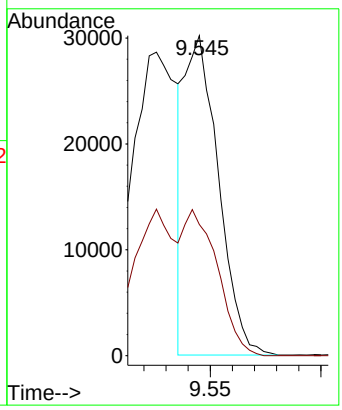


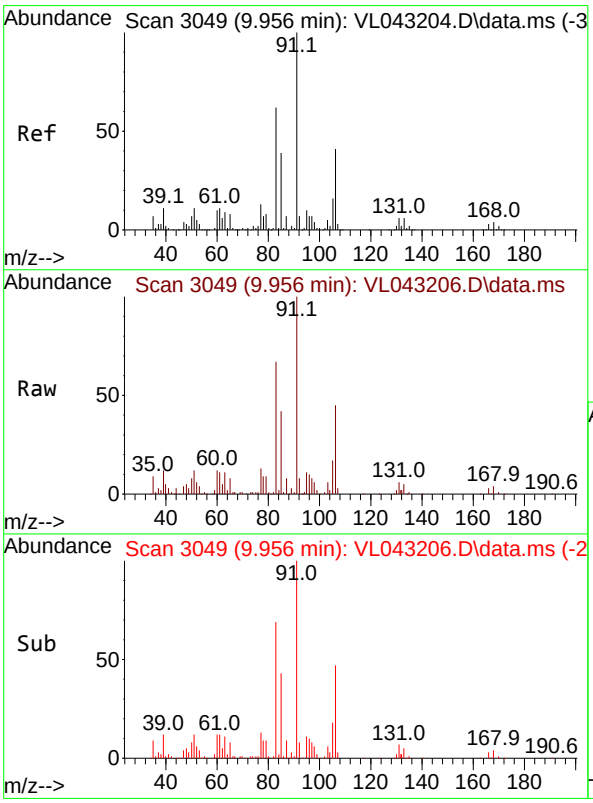
#59
m/p-Xylene
Concen: 0.911 ppbv
RT: 9.545 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 32159

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

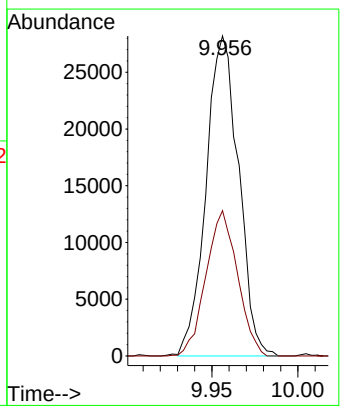


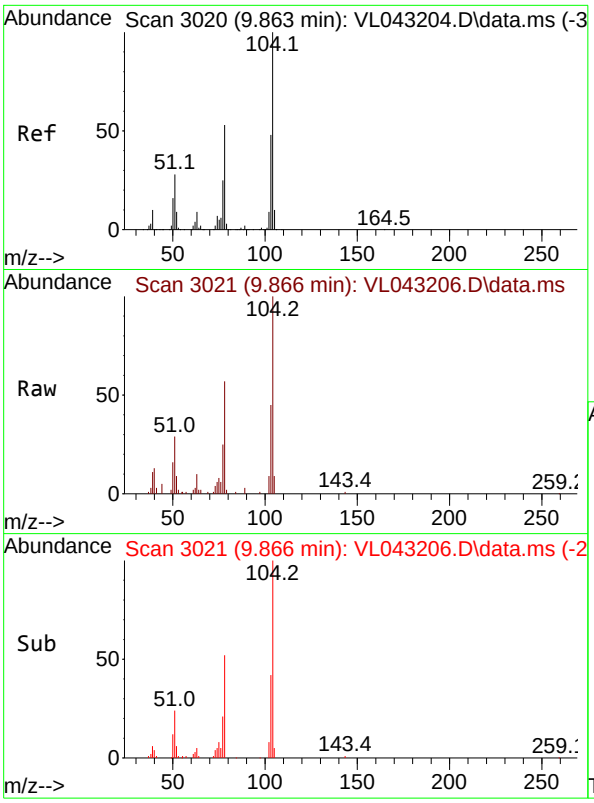


#60
o-Xylene
Concen: 1.054 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 37054

Ion	Ratio	Lower	Upper
91	100		
106	44.1	20.9	62.8



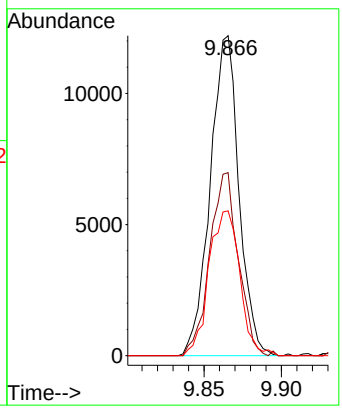


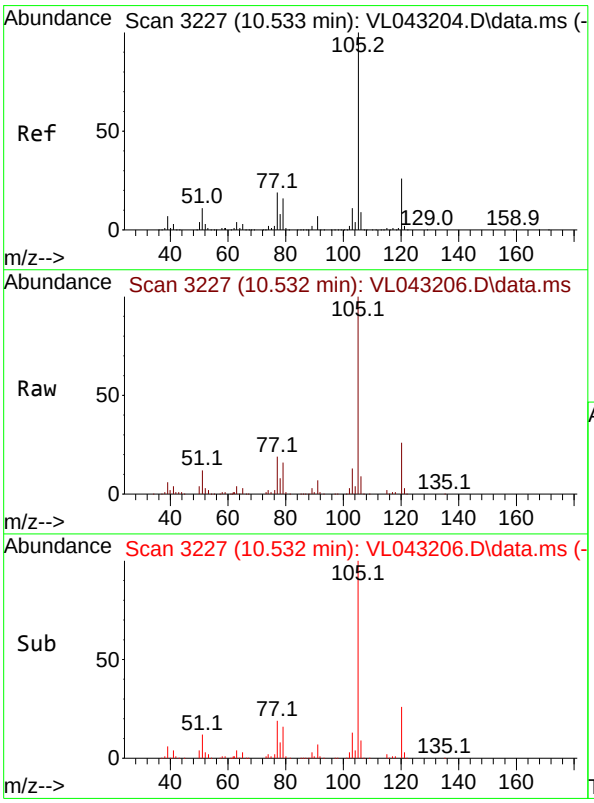
#61
Styrene
Concen: 1.023 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

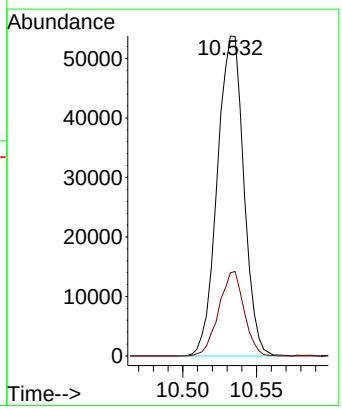


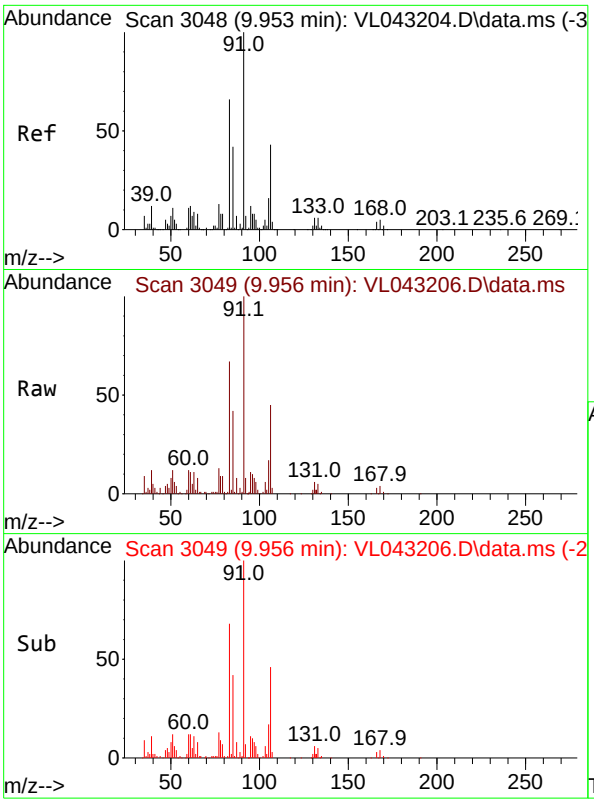


#62
Isopropylbenzene
Concen: 1.068 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:105 Resp: 67163

Ion	Ratio	Lower	Upper
105	100		
120	25.2	19.8	29.8



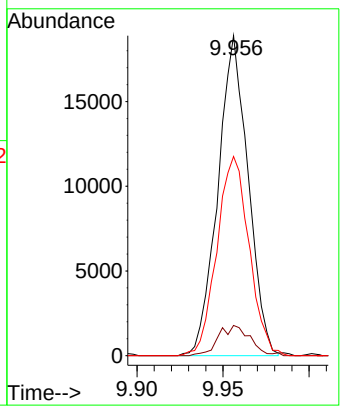


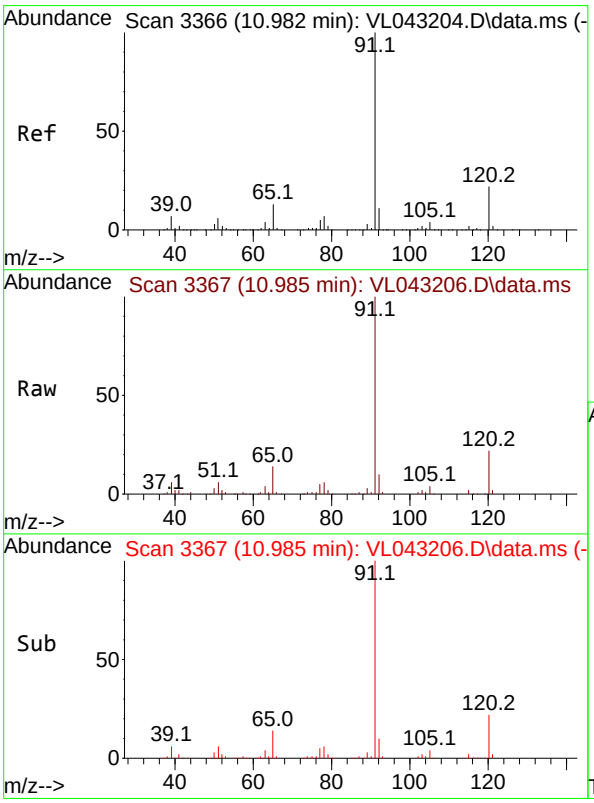
#63
1,1,2,2-Tetrachloroethane
Concen: 1.035 ppbv
RT: 9.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

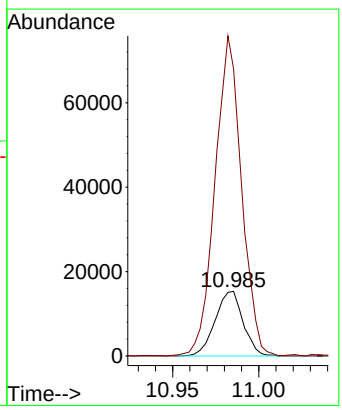


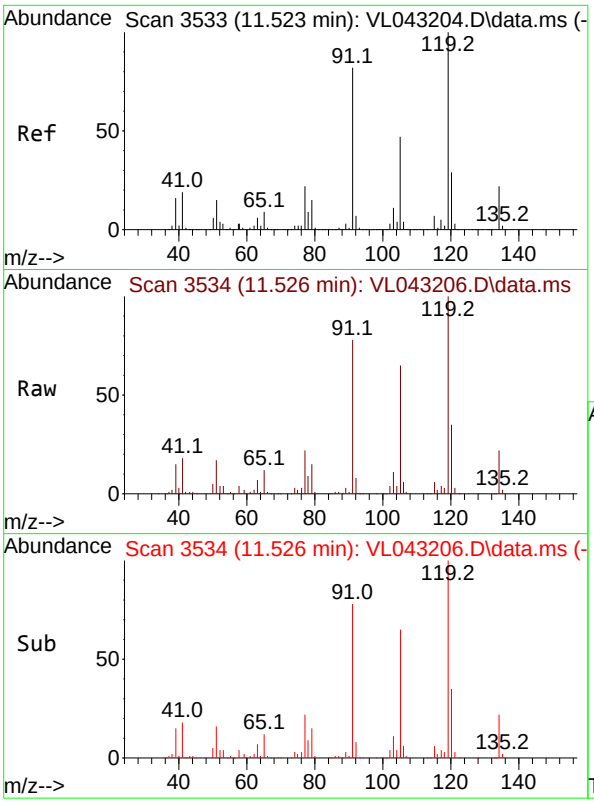


#64
n-propylbenzene
Concen: 1.070 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:120 Resp: 17289

Ion	Ratio	Lower	Upper
120	100		
91	471.4	377.1	565.7



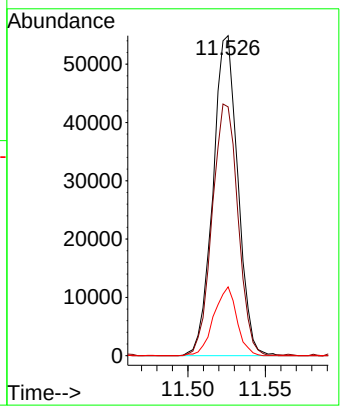


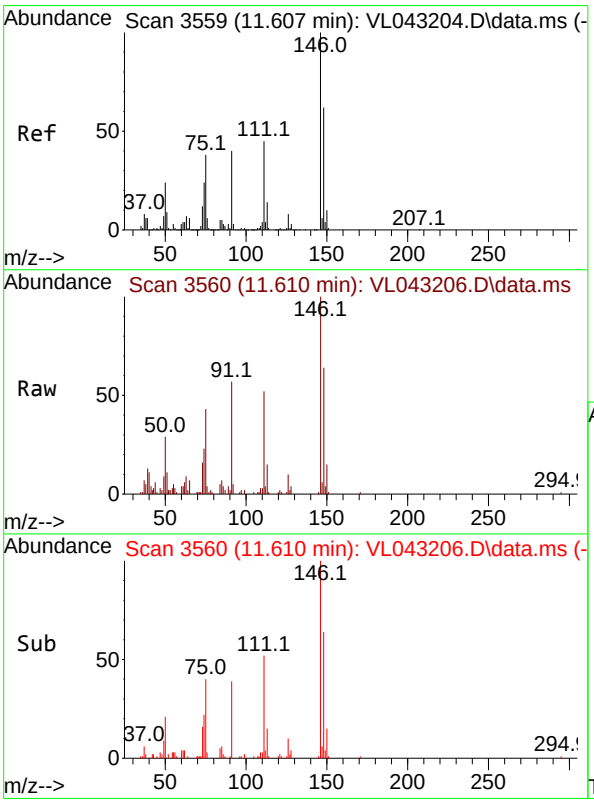
#65
tert-Butylbenzene
Concen: 1.091 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

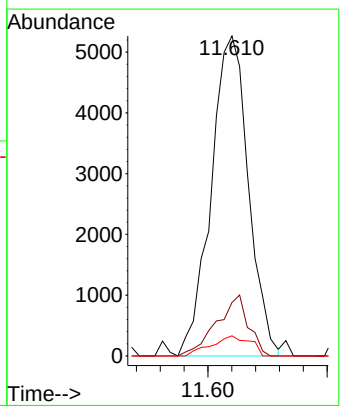


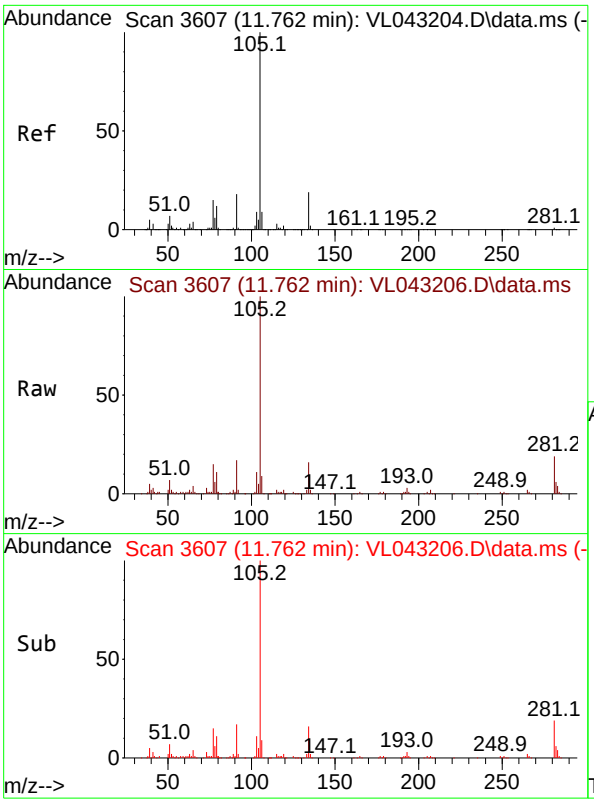


#66
Benzyl Chloride
Concen: 1.005 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



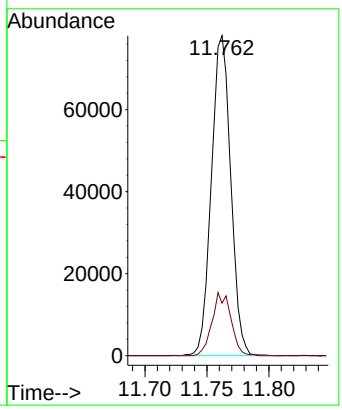


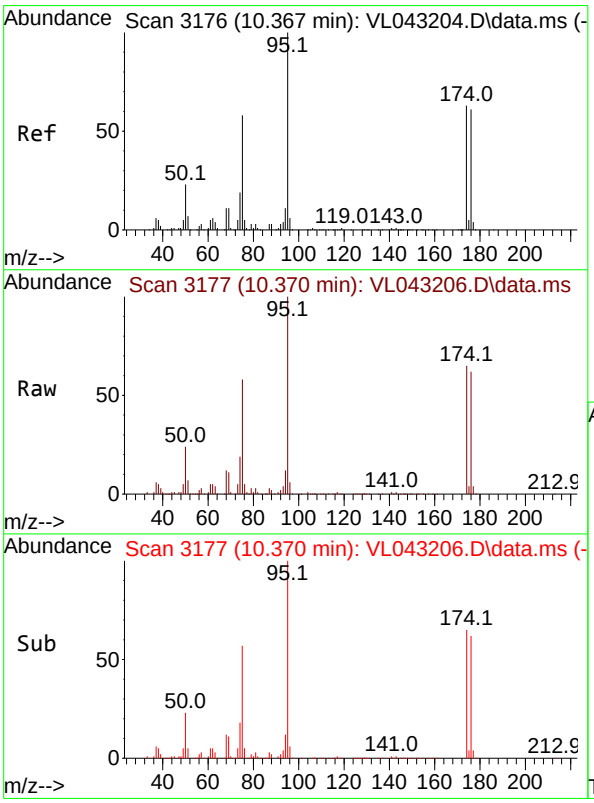
#67
sec-Butylbenzene
Concen: 1.084 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 84989

Ion	Ratio	Lower	Upper
105	100		
134	19.3	15.0	22.6

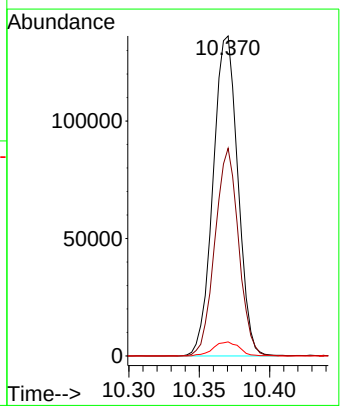


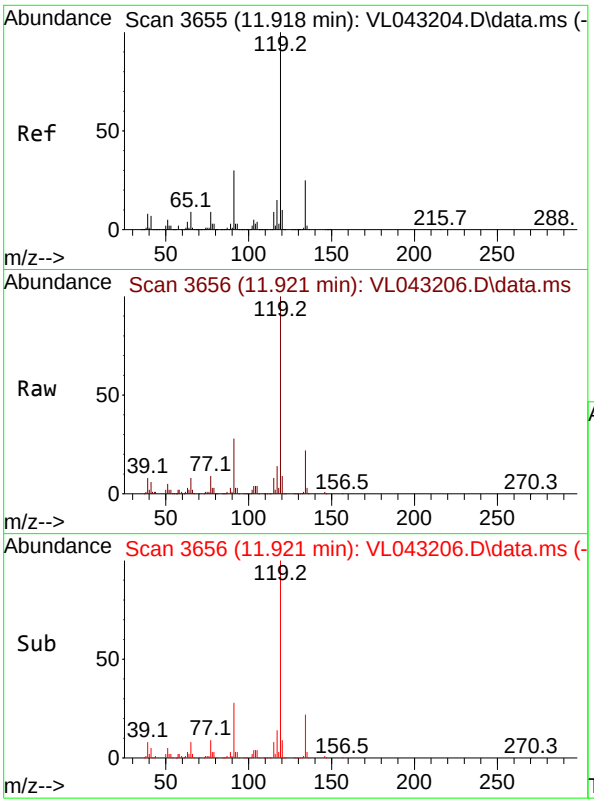


#68
1-Bromo-4-Fluorobenzene
Concen: 9.996 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



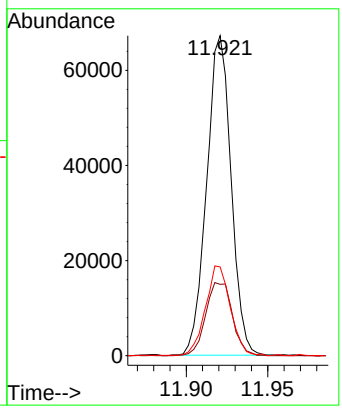


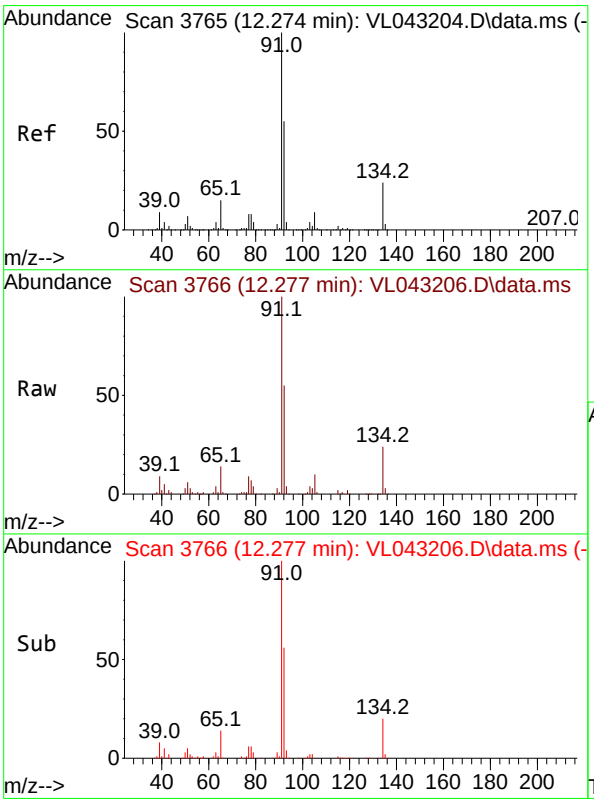
#69
p-Isopropyltoluene
Concen: 1.054 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

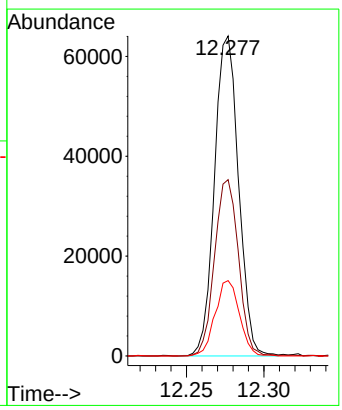


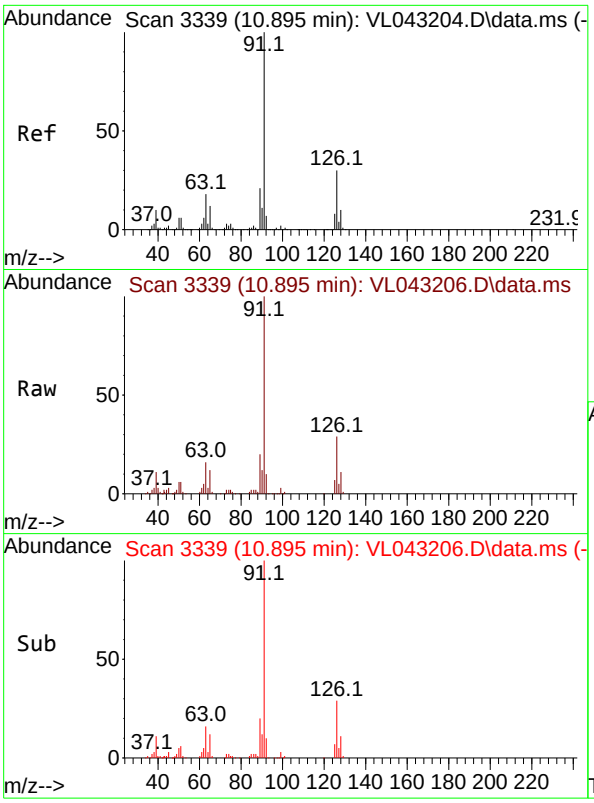


#70
n-Butylbenzene
Concen: 1.076 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



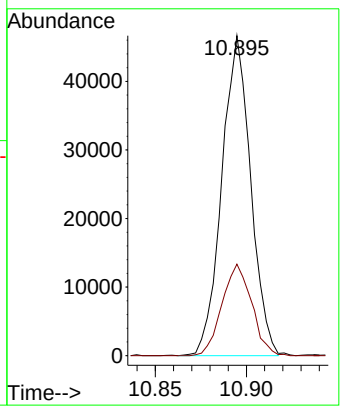


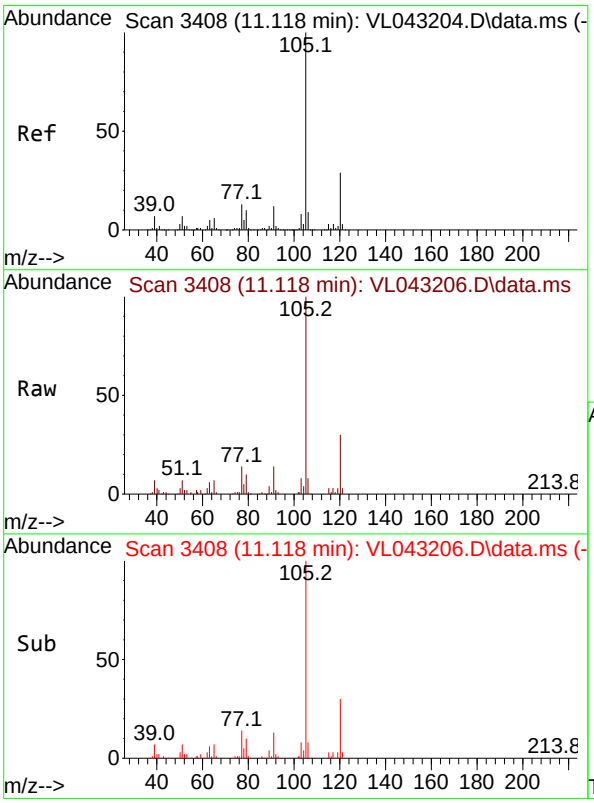
#71
2-Chlorotoluene
Concen: 1.065 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 51452

Ion	Ratio	Lower	Upper
91	100		
126	29.3	11.7	46.7

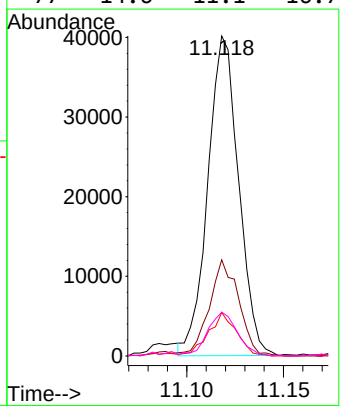


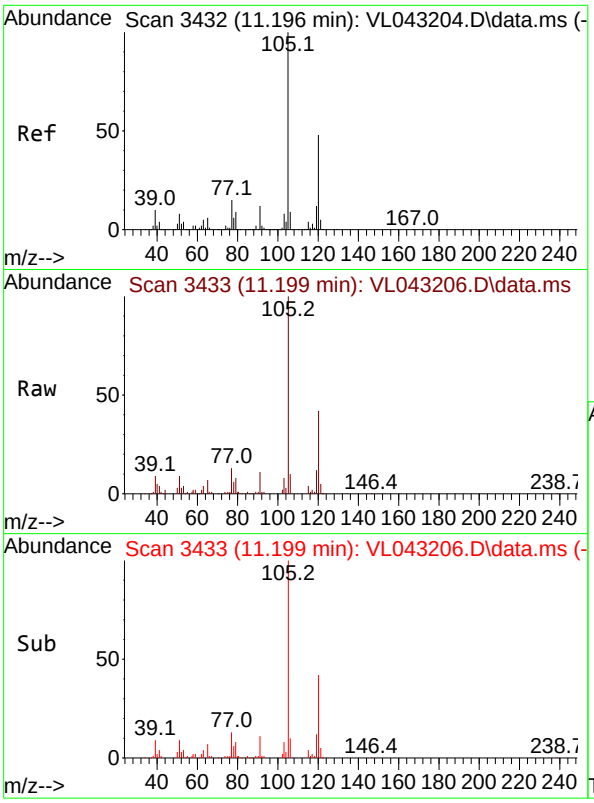


#72
4-Ethyltoluene
Concen: 1.037 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



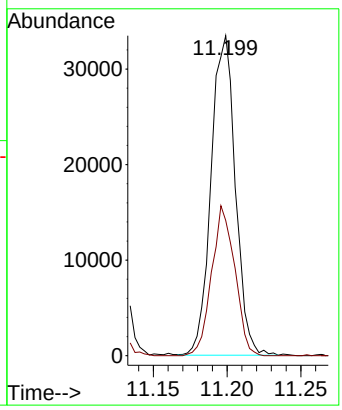


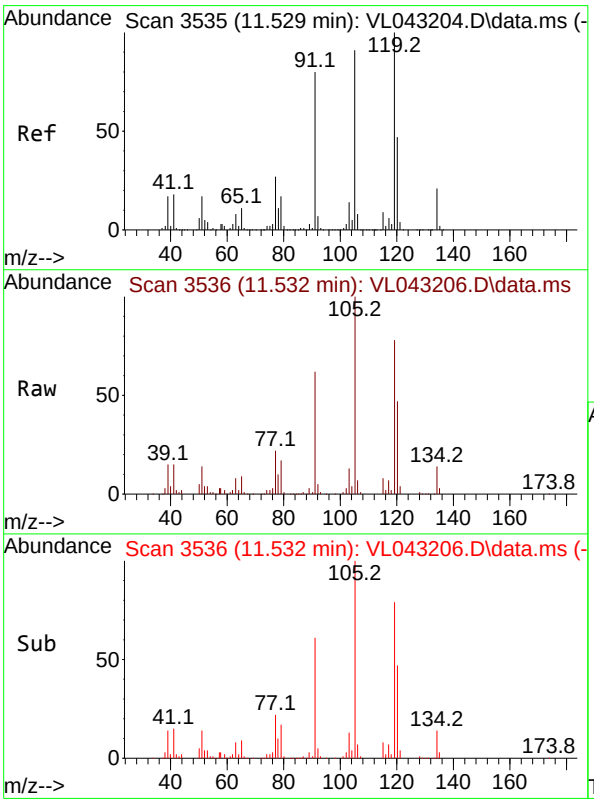
#73
1,3,5-Trimethylbenzene
Concen: 1.068 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 38350

Ion	Ratio	Lower	Upper
105	100		
120	42.3	38.6	57.8

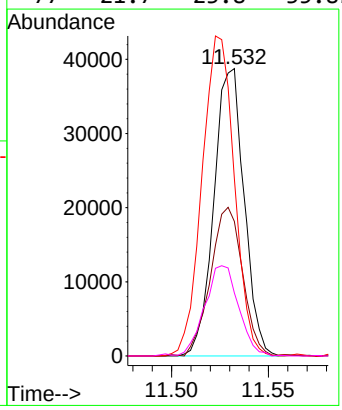


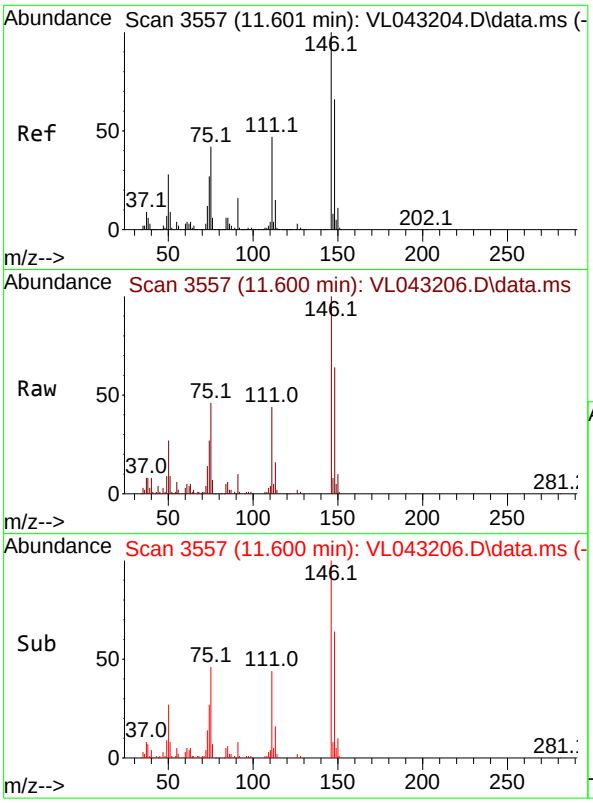


#74
1,2,4-Trimethylbenzene
Concen: 1.073 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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#



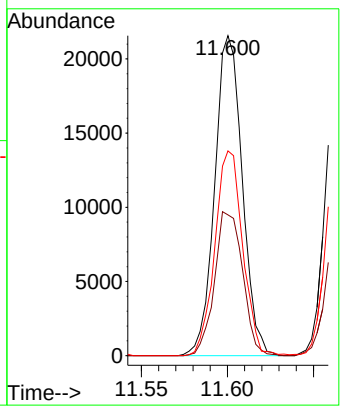


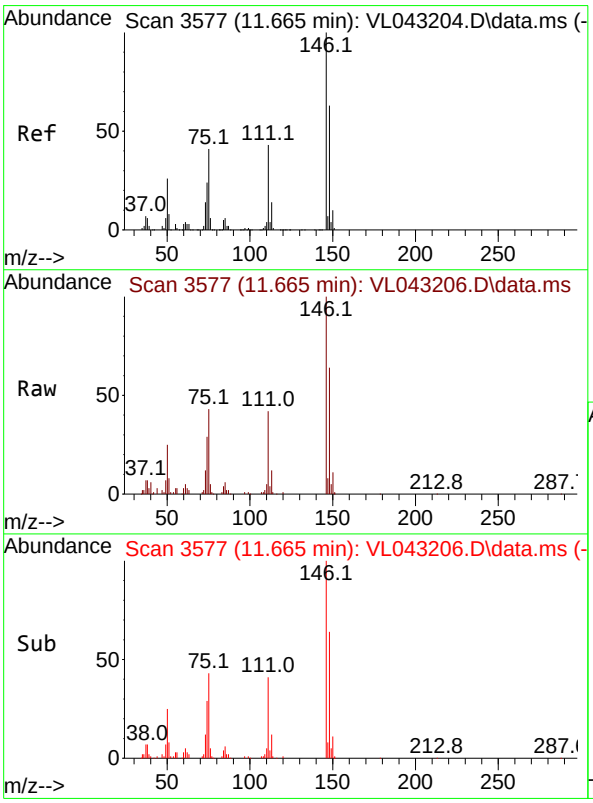
#75
1,3-Dichlorobenzene
Concen: 1.050 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

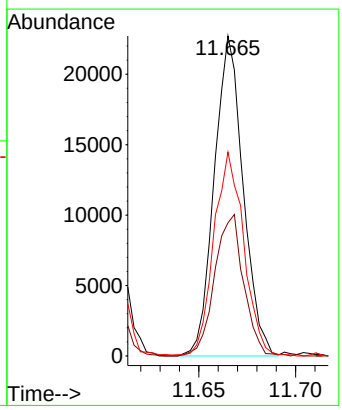


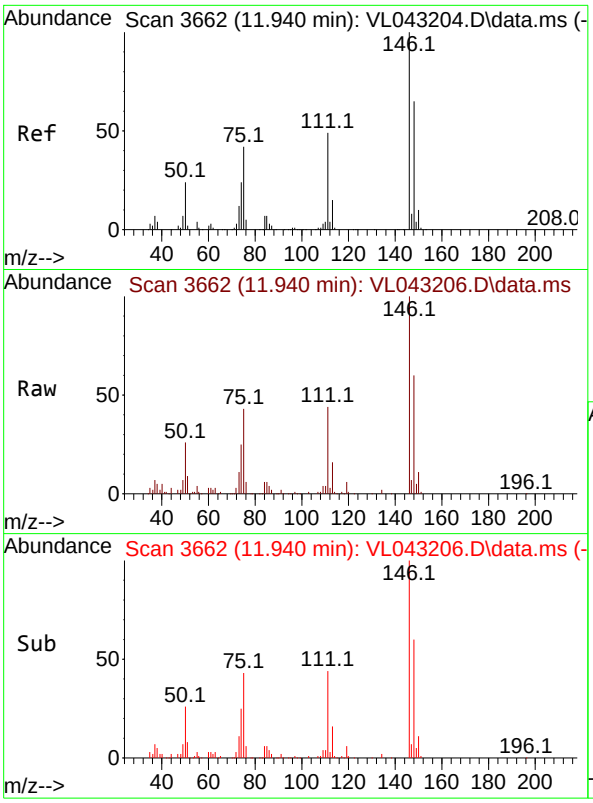


#76
1,4-Dichlorobenzene
Concen: 1.029 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



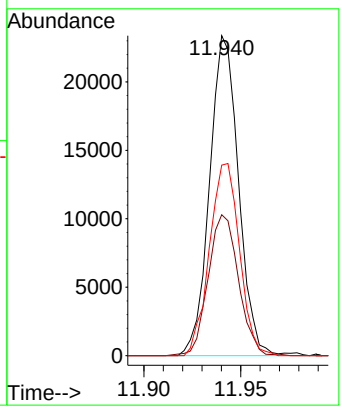


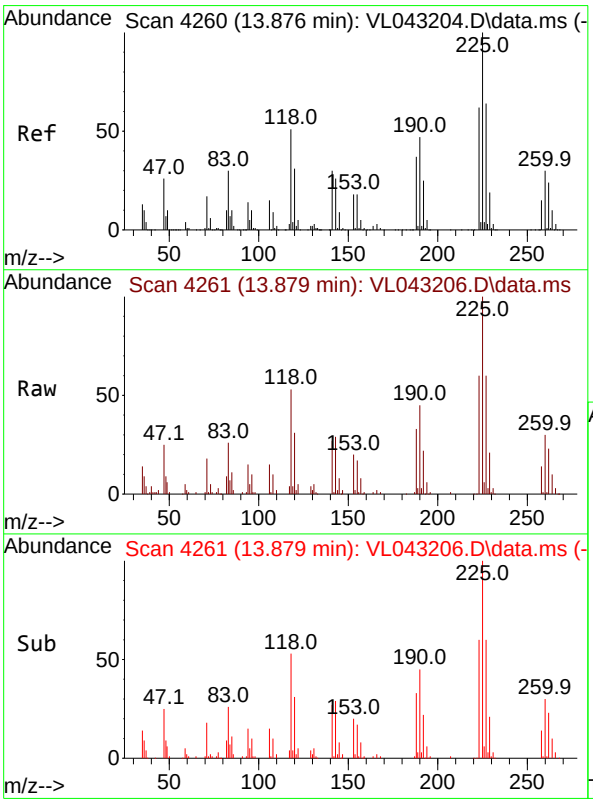
#77
1,2-Dichlorobenzene
Concen: 1.103 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

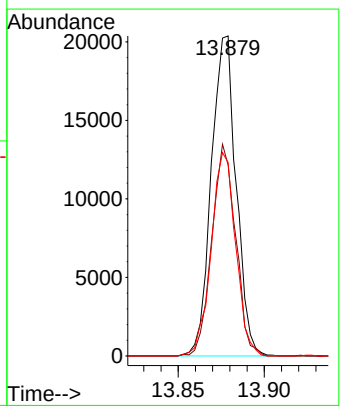


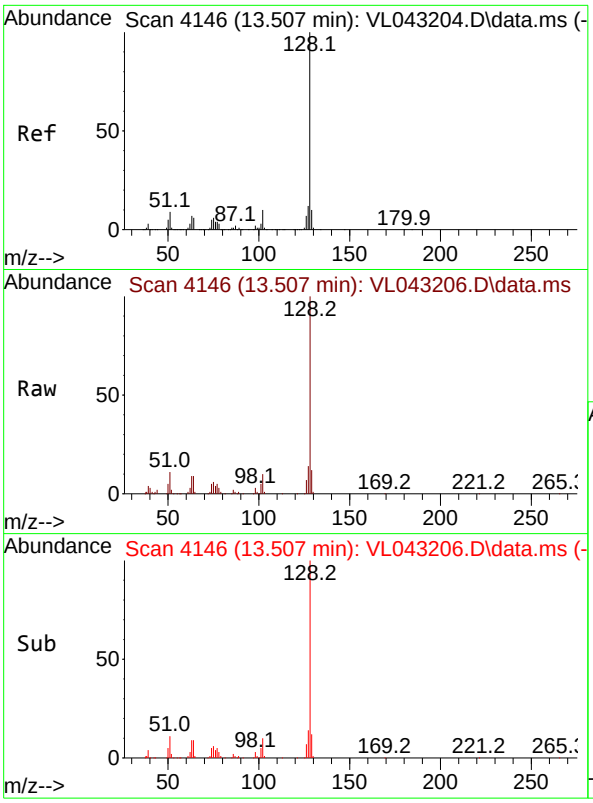


#78
Hexachloro-1,3-Butadiene
Concen: 1.116 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



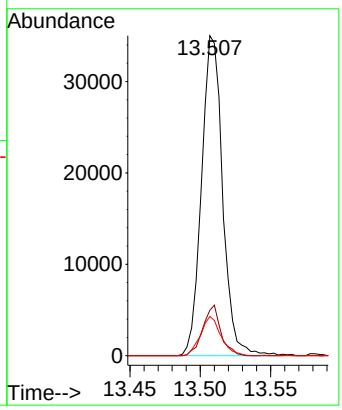


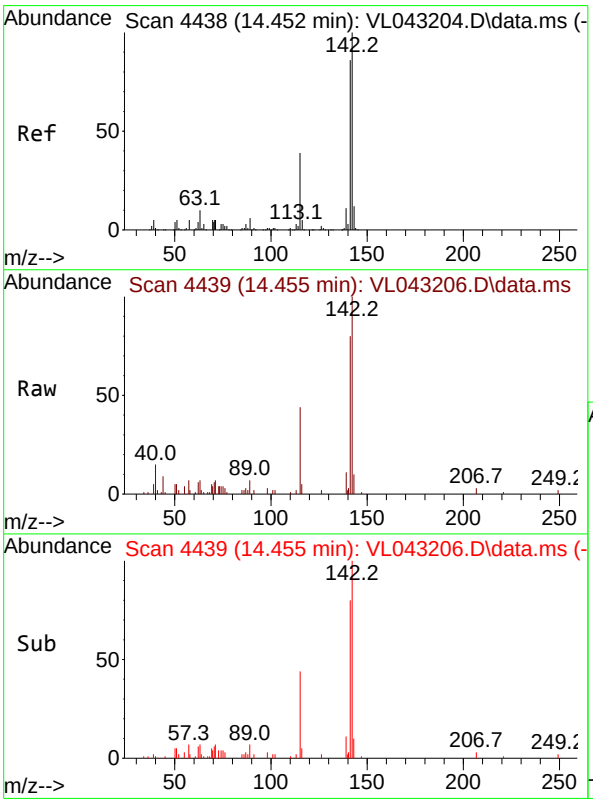
#79
Naphthalene
Concen: 1.047 ppbv
RT: 13.507 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

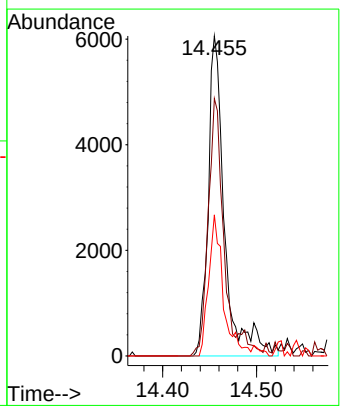


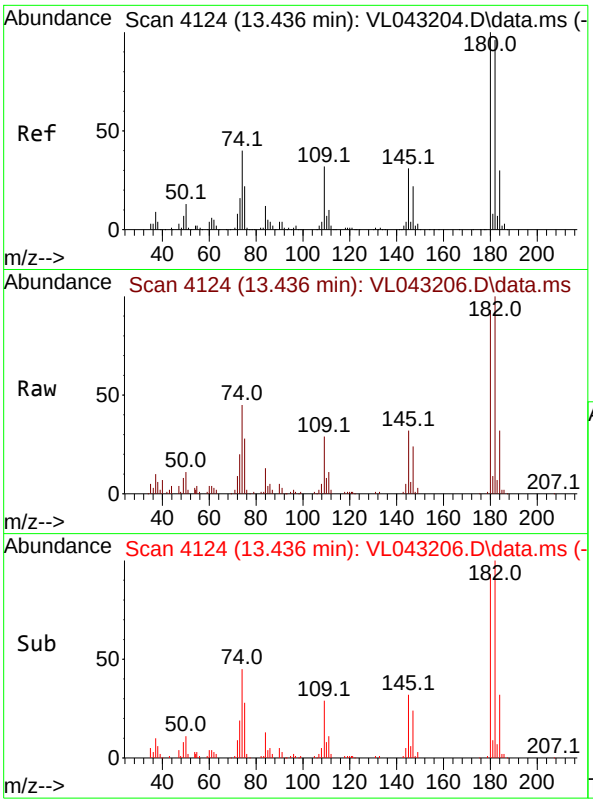


#80
Naphthalene,2-methyl-
Concen: 0.807 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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



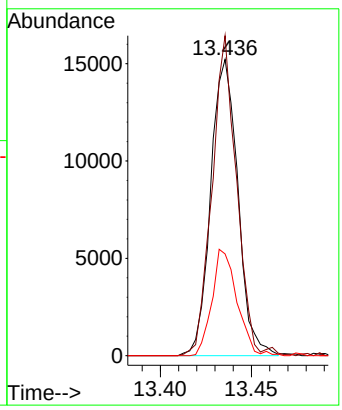


#81
1,2,4-Trichlorobenzene
Concen: 1.014 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

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

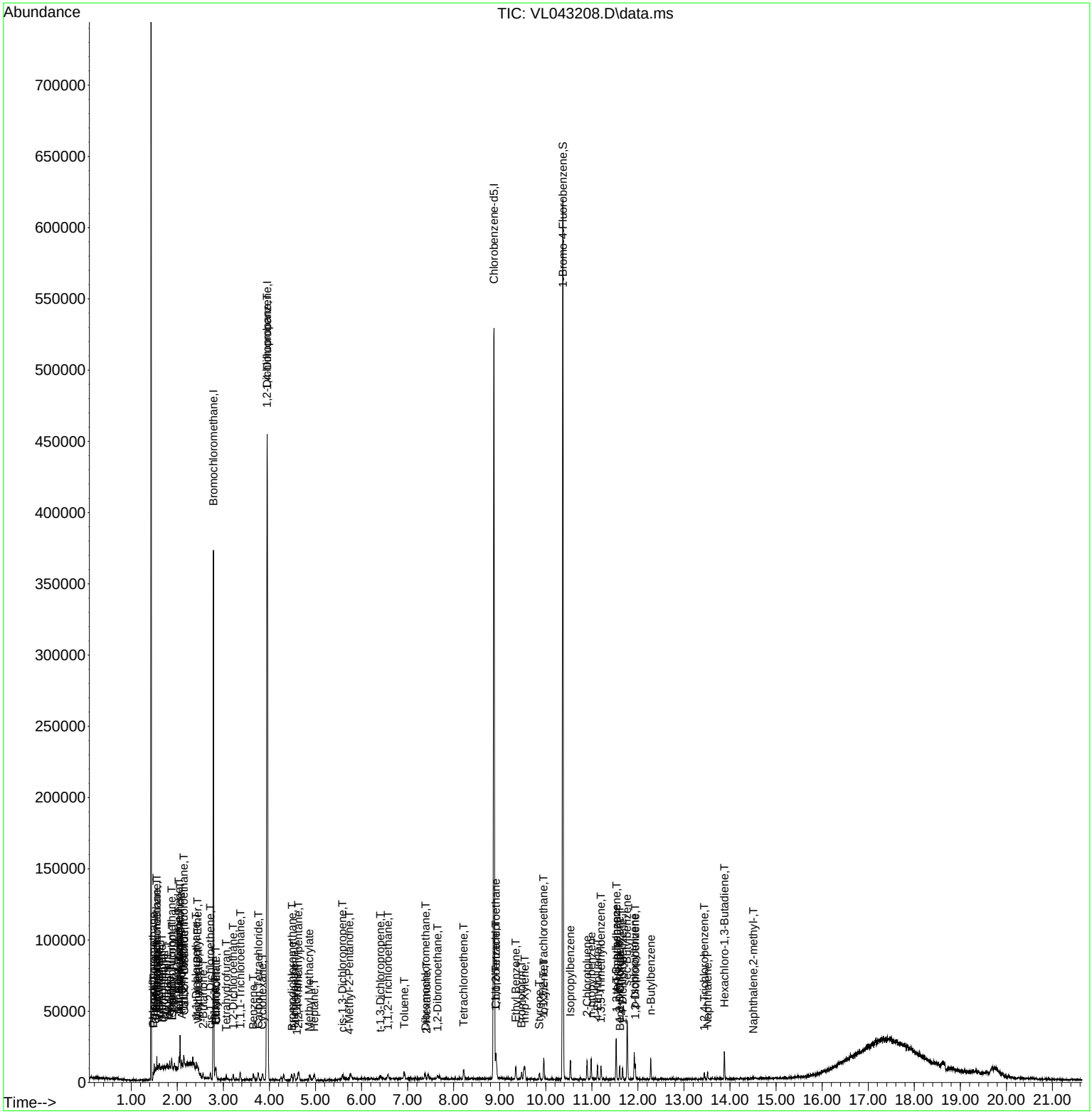
(#) = qualifier out of range (m) = manual integration (+) = signals summed

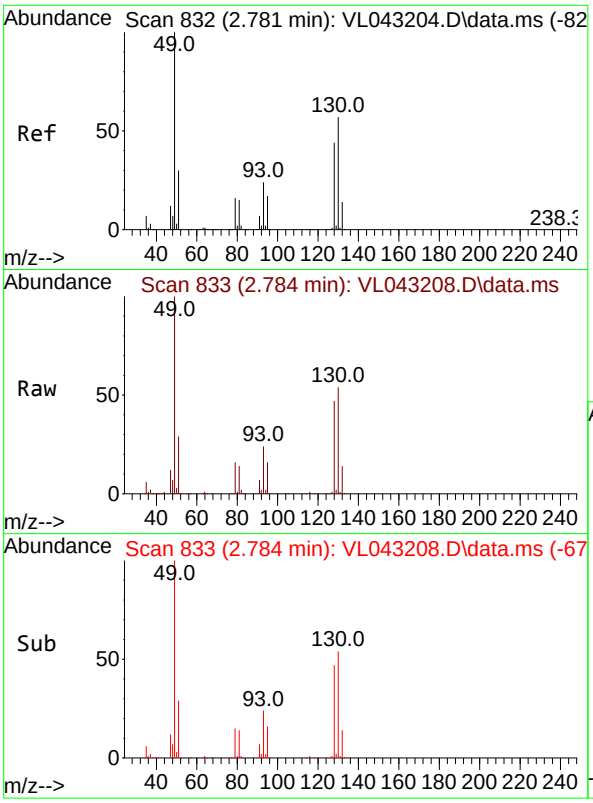
Quantitation Report (Not Reviewed)

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



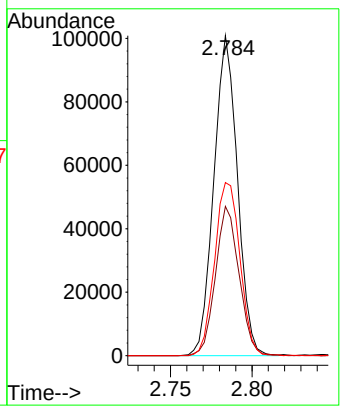


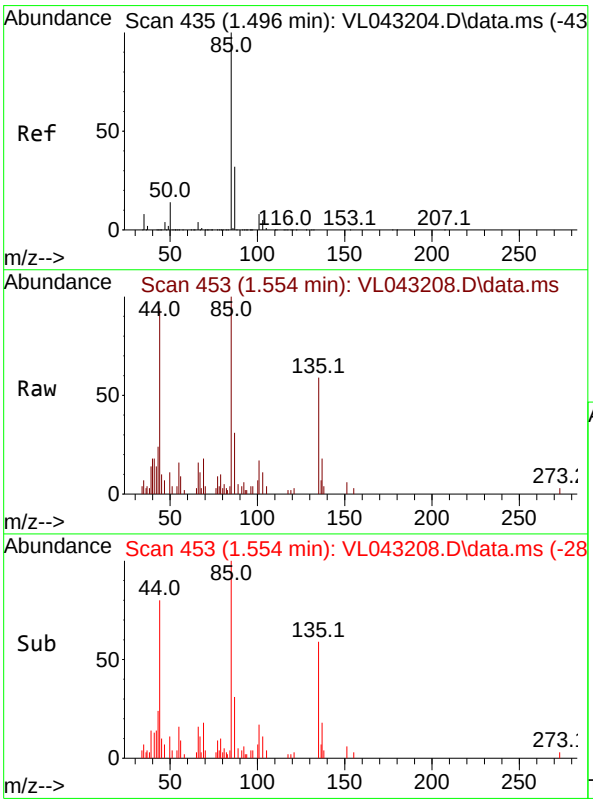
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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

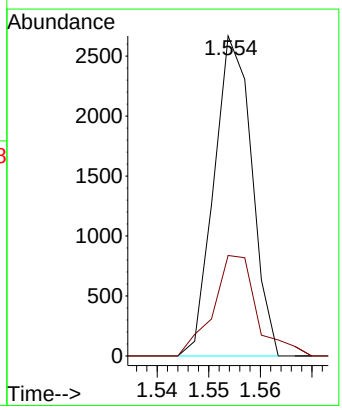


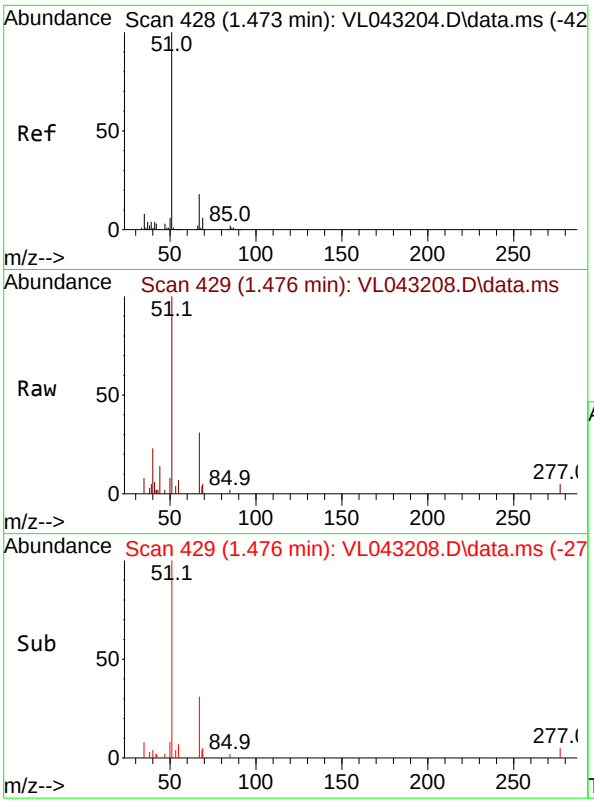


#2
Dichlorodifluoromethane
Concen: 0.095 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.058 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 85 Resp: 1358

Ion	Ratio	Lower	Upper
85	100		
87	31.4	25.4	38.2



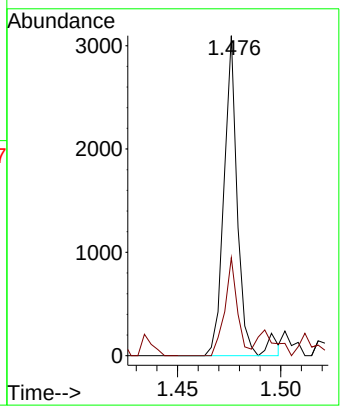


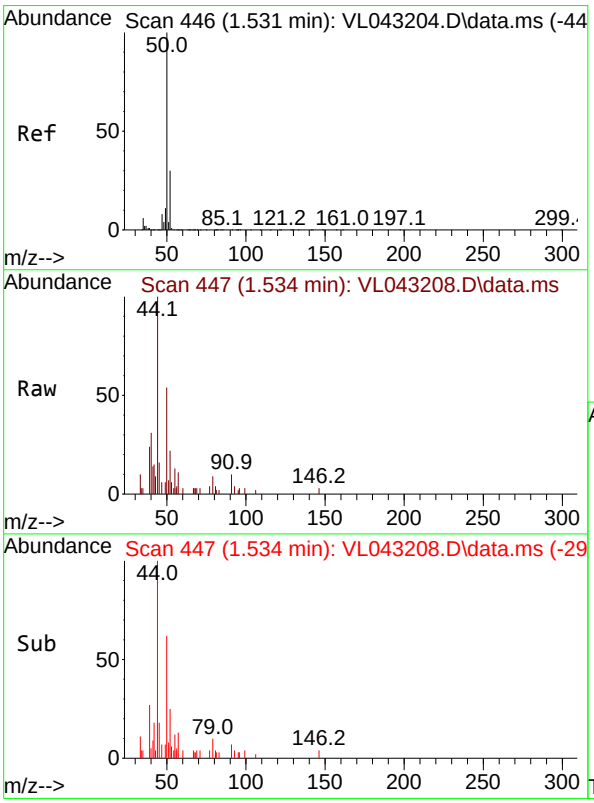
#3
Chlorodifluoromethane
Concen: 0.102 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 51 Resp: 1436

Ion	Ratio	Lower	Upper
51	100		
67	40.2	14.9	22.3#

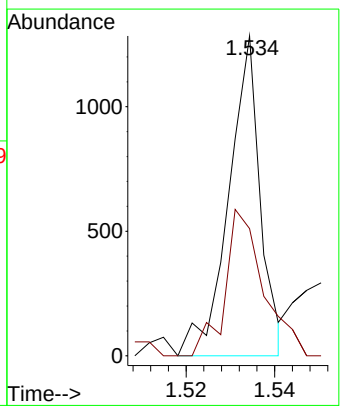


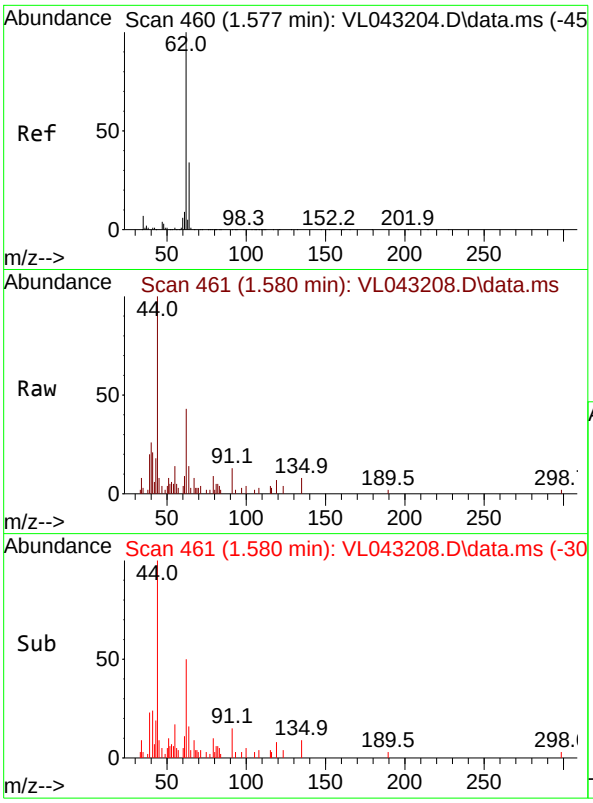


#4
Chloromethane
Concen: 0.119 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 50 Resp: 638

Ion	Ratio	Lower	Upper
50	100		
52	39.8	24.1	36.1#



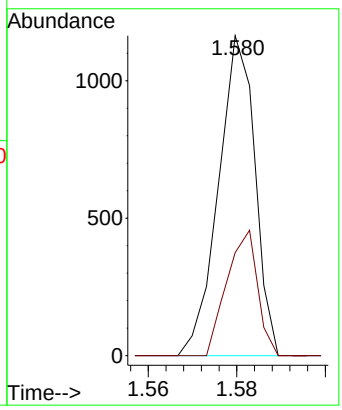


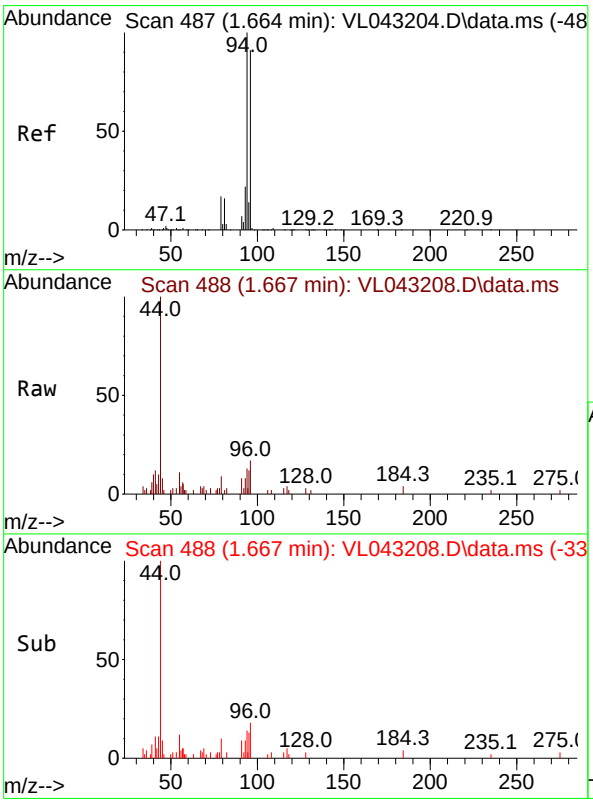
#5
Vinyl Chloride
Concen: 0.114 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 664

Ion	Ratio	Lower	Upper
62	100		
64	32.2	27.3	40.9

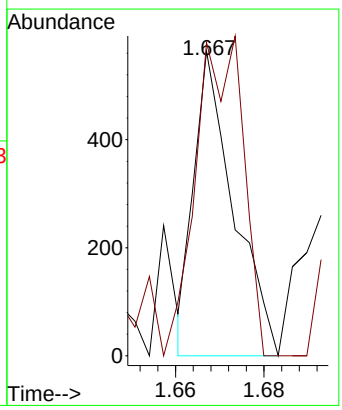


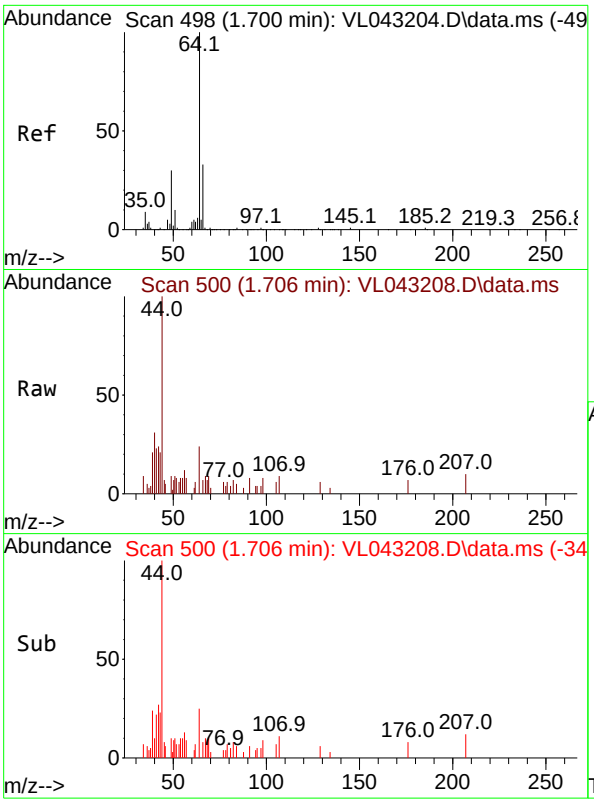


#6
Bromomethane
Concen: 0.124 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 94 Resp: 352

Ion	Ratio	Lower	Upper
94	100		
96	102.8	72.9	109.3



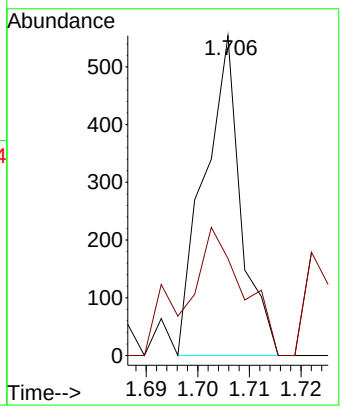


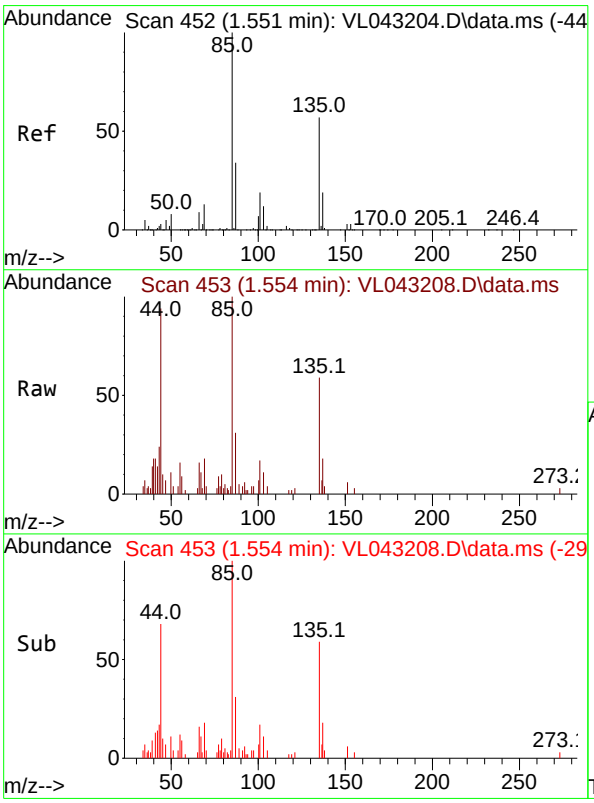
#7
Chloroethane
Concen: 0.121 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 64 Resp: 275

Ion	Ratio	Lower	Upper
64	100		
66	30.3	26.8	40.2

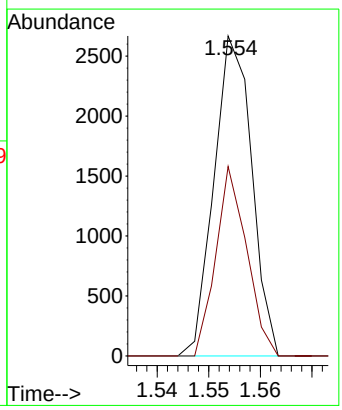


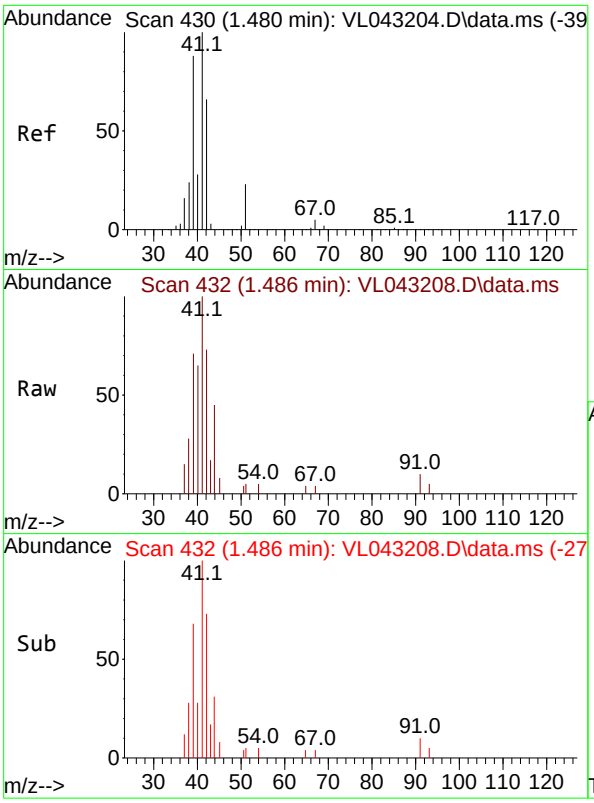


#8
Dichlorotetrafluoroethane
Concen: 0.114 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 85 Resp: 1358

Ion	Ratio	Lower	Upper
85	100		
135	48.5	52.6	79.0#



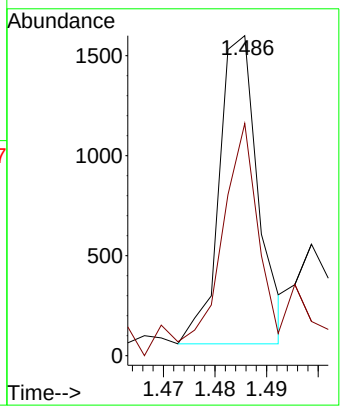


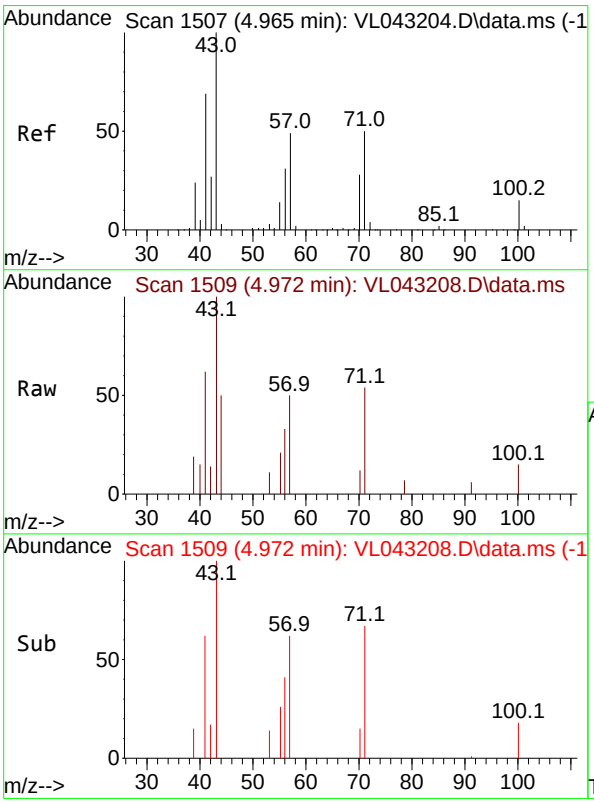
#9
Propene
Concen: 0.124 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 41 Resp: 811

Ion	Ratio	Lower	Upper
41	100		
42	79.2	3.7	5.5#

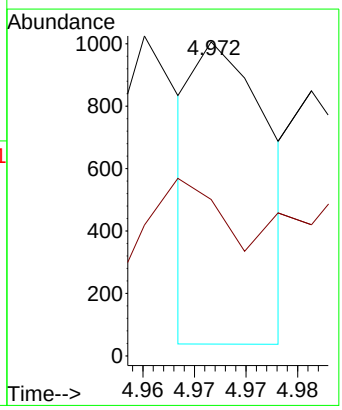


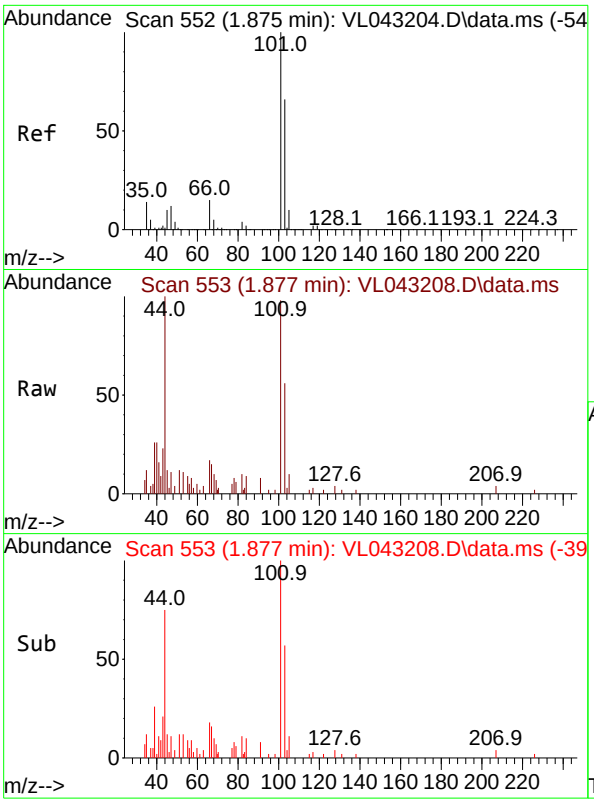


#10
Heptane
Concen: 0.027 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 43 Resp: 480

Ion	Ratio	Lower	Upper
43	100		
57	260.6	39.7	59.5#



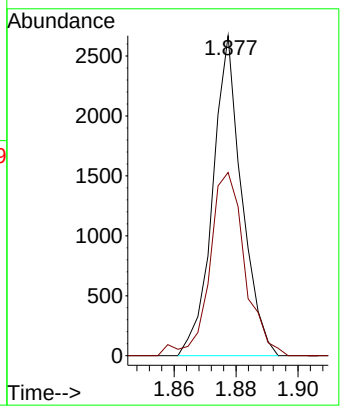


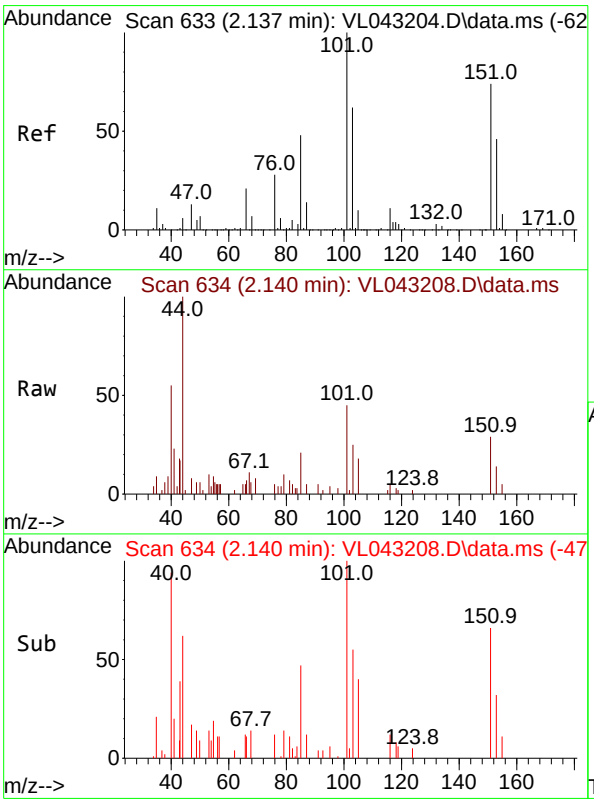
#11
Trichlorofluoromethane
Concen: 0.126 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:101 Resp: 1744

Ion	Ratio	Lower	Upper
101	100		
103	55.2	52.6	79.0

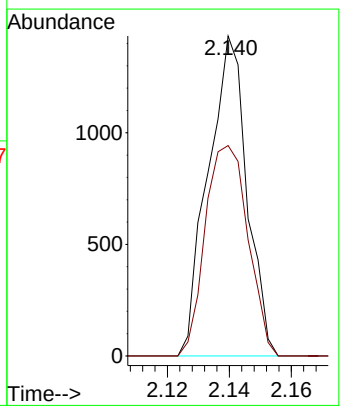


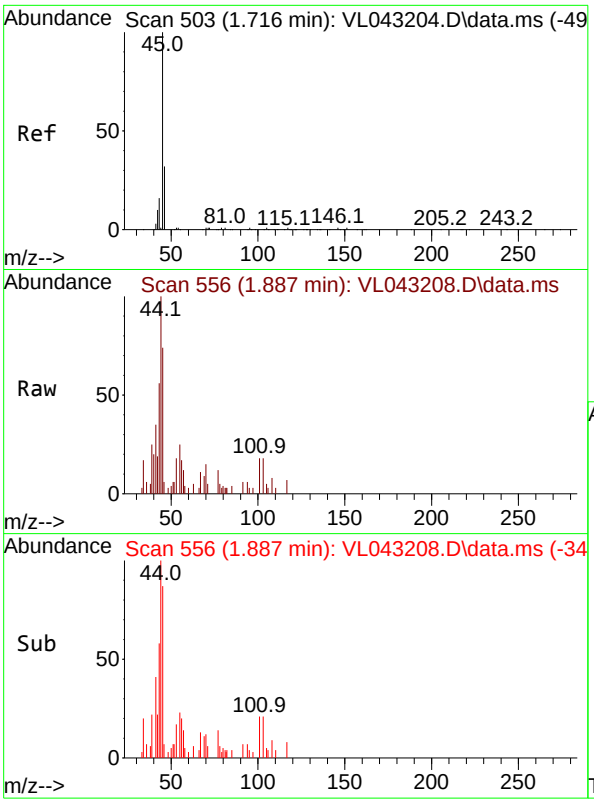


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.115 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:101 Resp: 1249

Ion	Ratio	Lower	Upper
101	100		
151	72.4	59.2	88.8



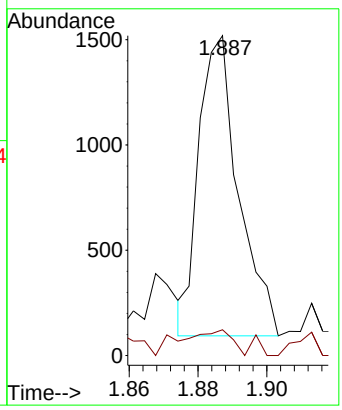


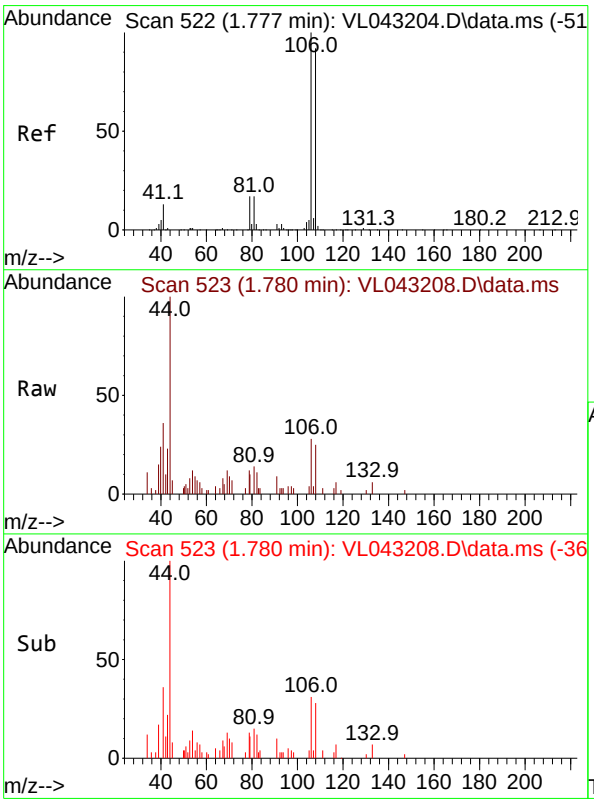
#13
Ethanol
Concen: 0.543 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.171 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 45 Resp: 1141

Ion	Ratio	Lower	Upper
45	100		
46	22.5	15.0	59.8

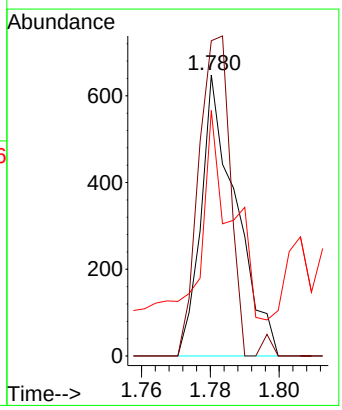


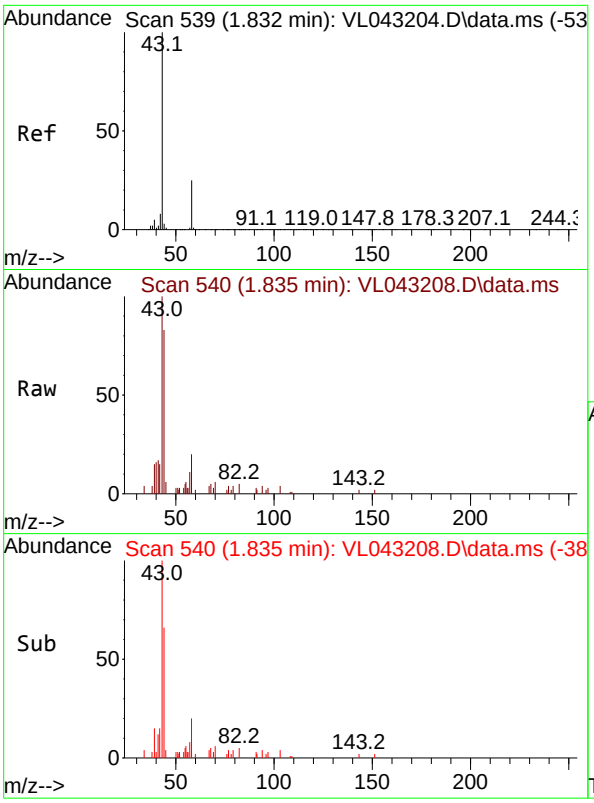


#14
Bromoethene
Concen: 0.110 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#



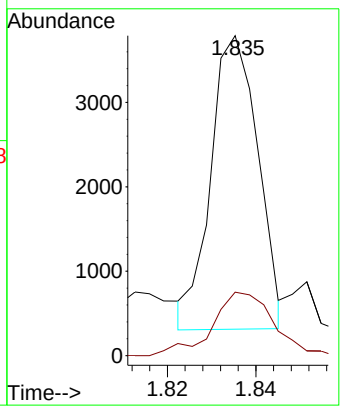


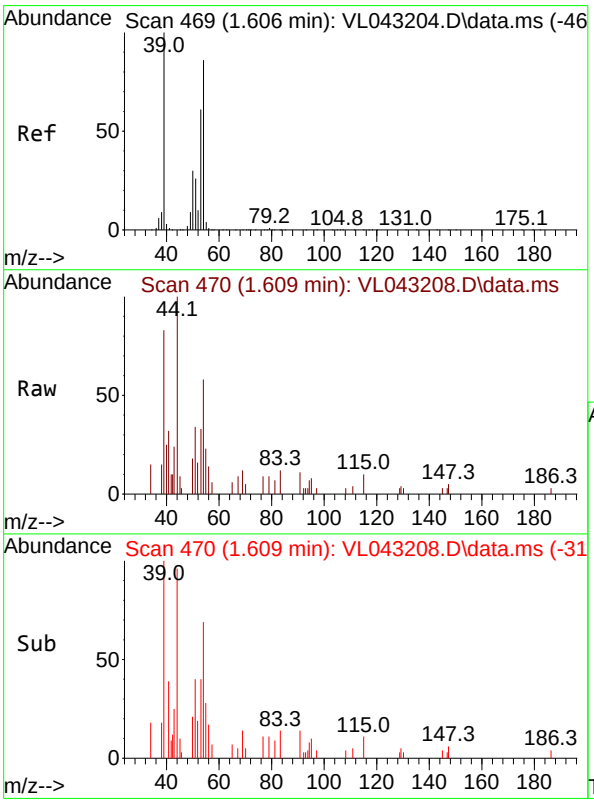
#15
Acetone
Concen: 0.183 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 2574

Ion	Ratio	Lower	Upper
43	100		
58	28.0	20.7	31.1

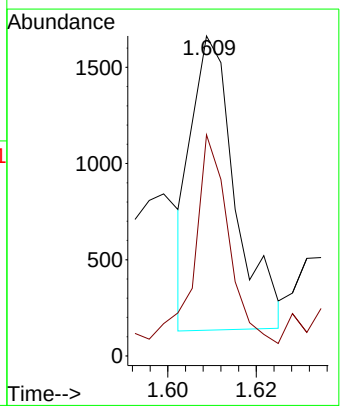


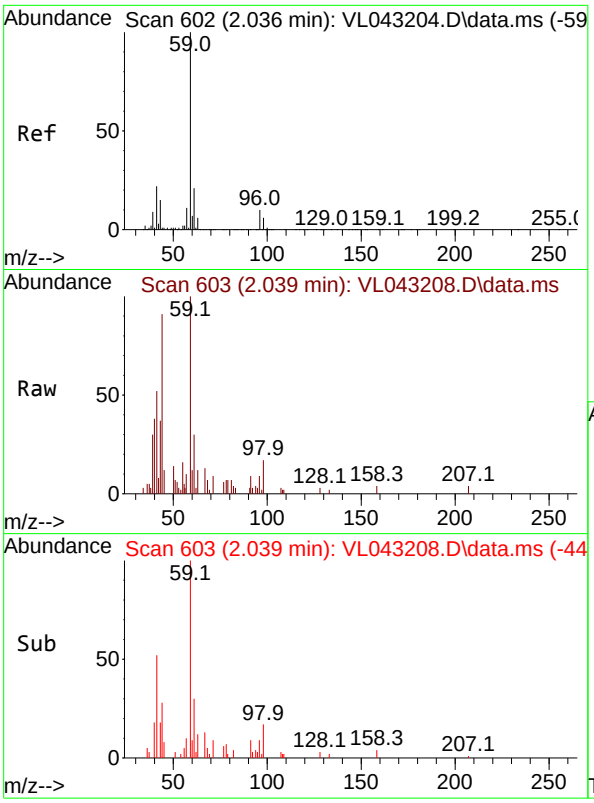


#16
1,3-Butadiene
Concen: 0.167 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 39 Resp: 1049

Ion	Ratio	Lower	Upper
39	100		
54	111.2	59.4	89.2#



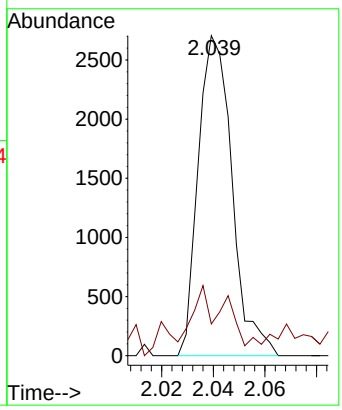


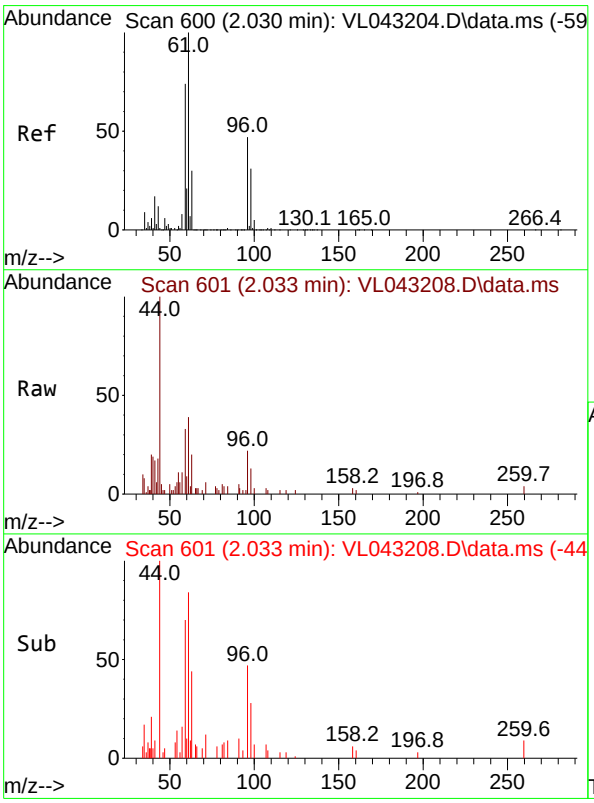
#17
tert-Butyl alcohol
Concen: 0.133 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 59 Resp: 2464

Ion	Ratio	Lower	Upper
59	100		
57	37.8	9.0	13.4#

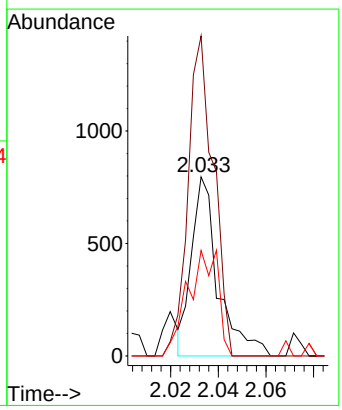


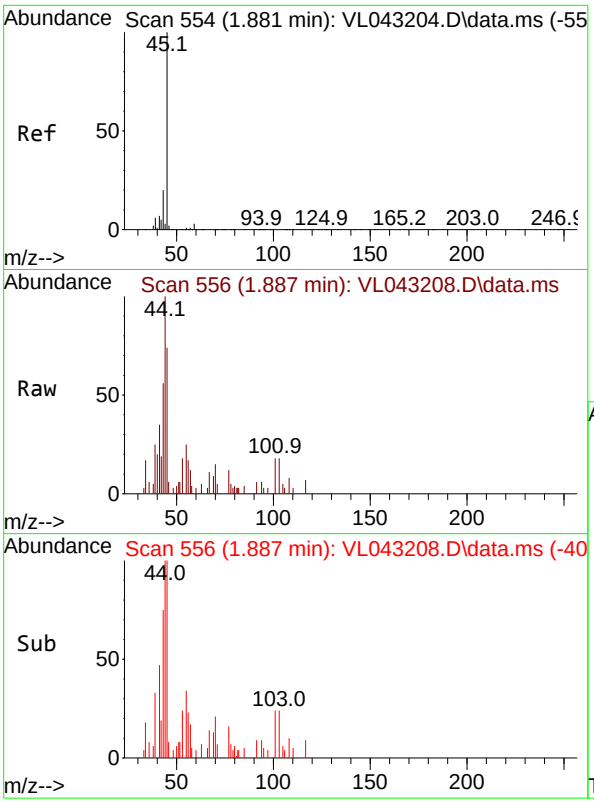


#18
1,1-Dichloroethene
Concen: 0.123 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



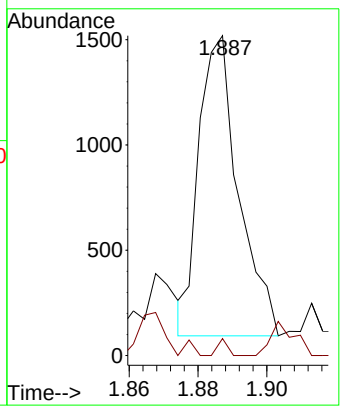


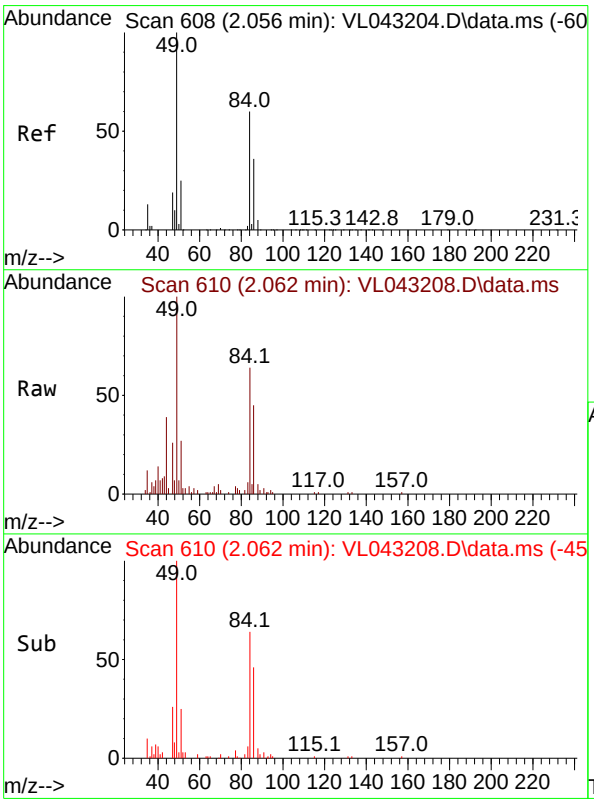
#19
Isopropyl Alcohol
Concen: 0.143 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 45 Resp: 1141

Ion	Ratio	Lower	Upper
45	100		
58	11.7	31.3	46.9#

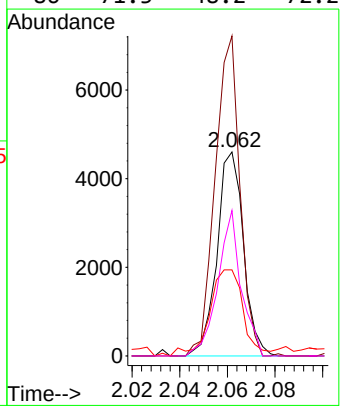


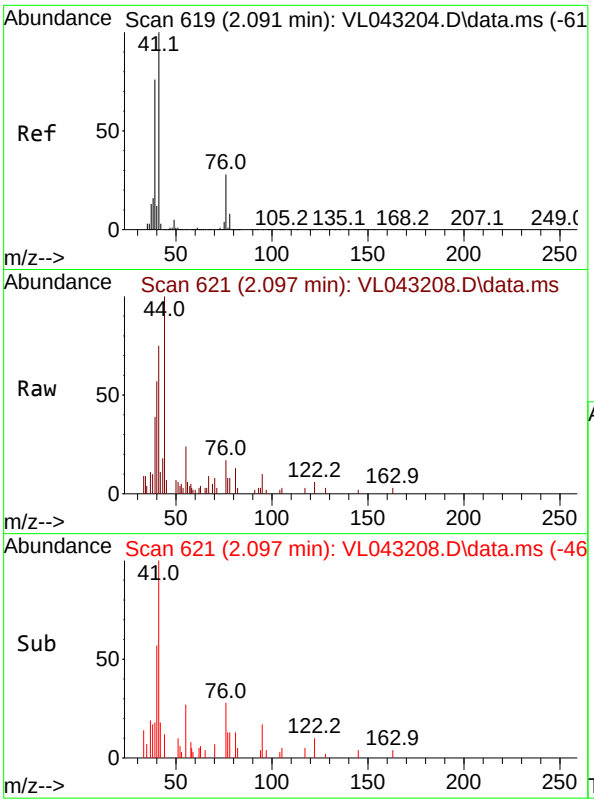


#20
Methylene Chloride
Concen: 0.077 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



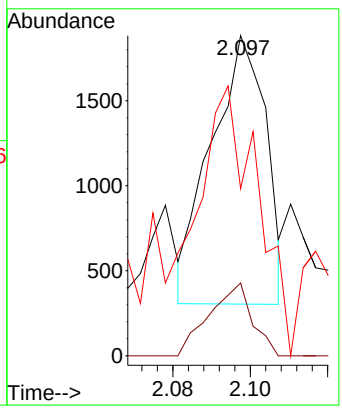


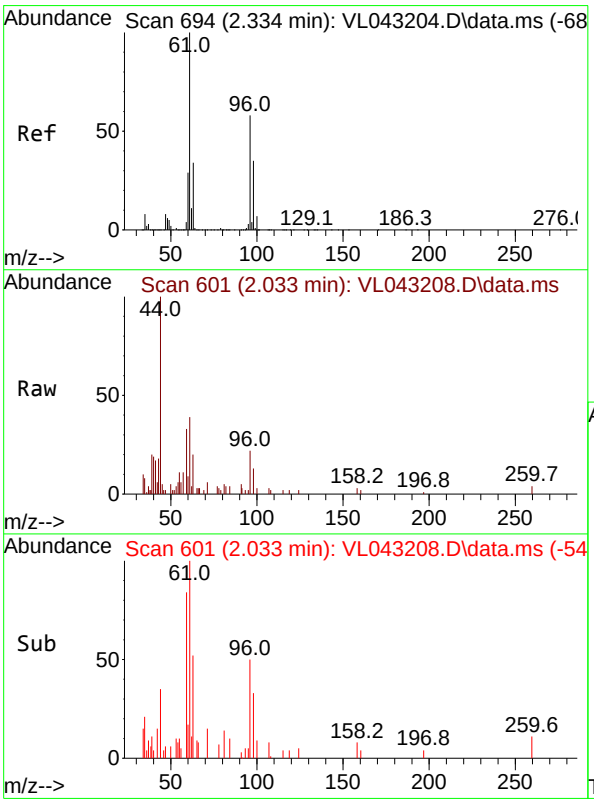
#21
Allyl Chloride
Concen: 0.164 ppbv
RT: 2.097 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

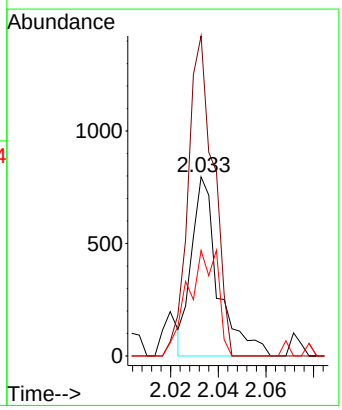


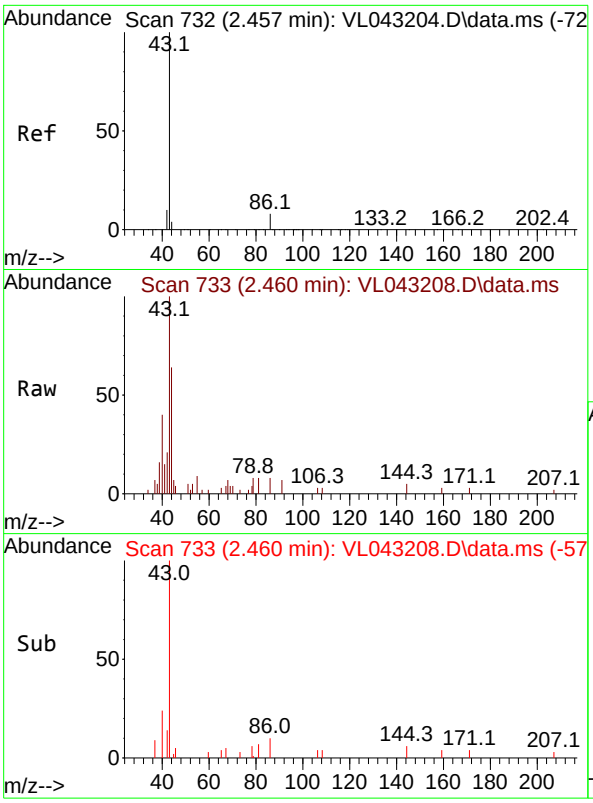


#22
trans-1,2-Dichloroethene
Concen: 0.108 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.301 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



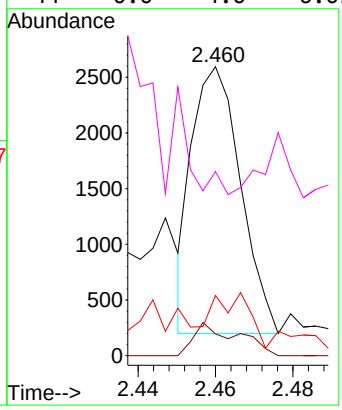


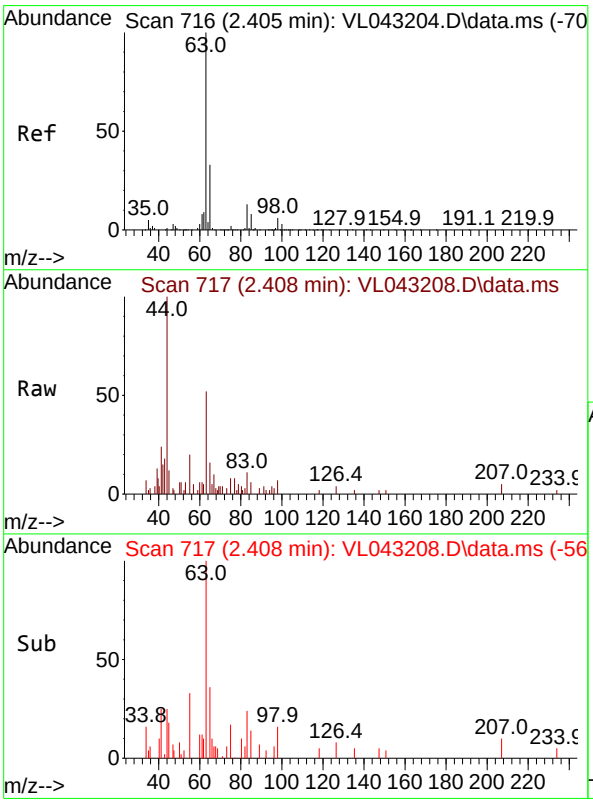
#23
Vinyl Acetate
Concen: 0.123 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

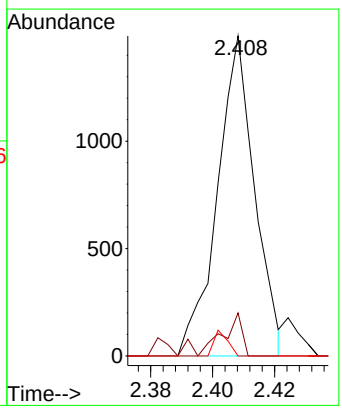


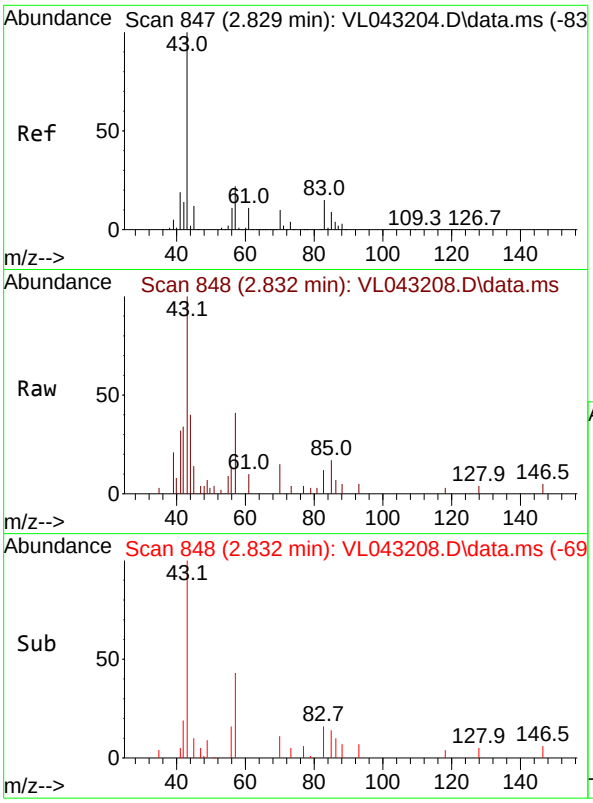


#24
1,1-Dichloroethane
Concen: 0.112 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#



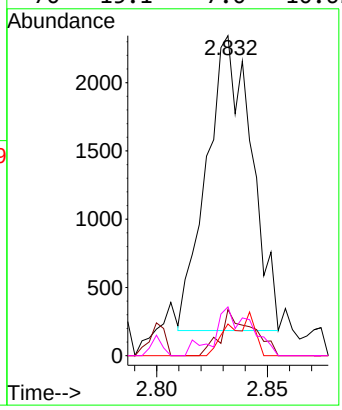


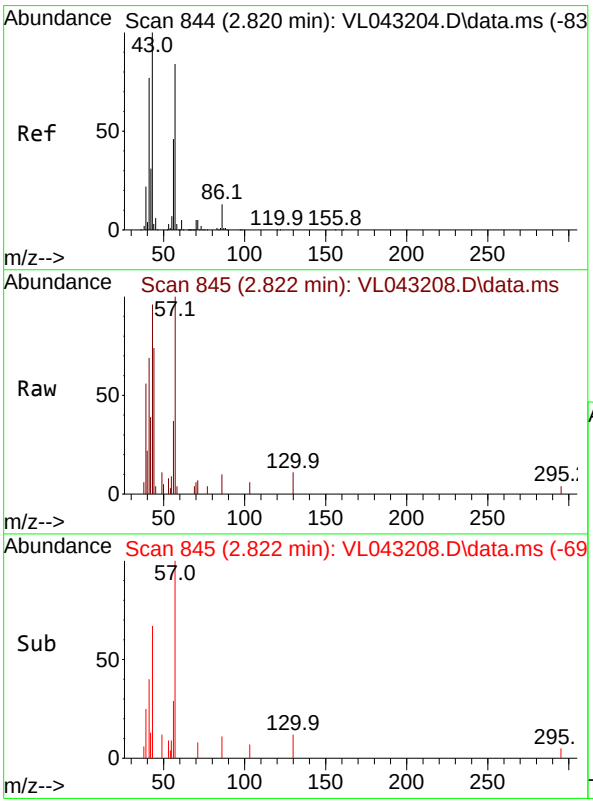
#25
Ethyl Acetate
Concen: 0.100 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

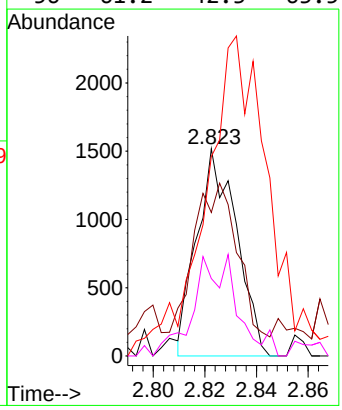


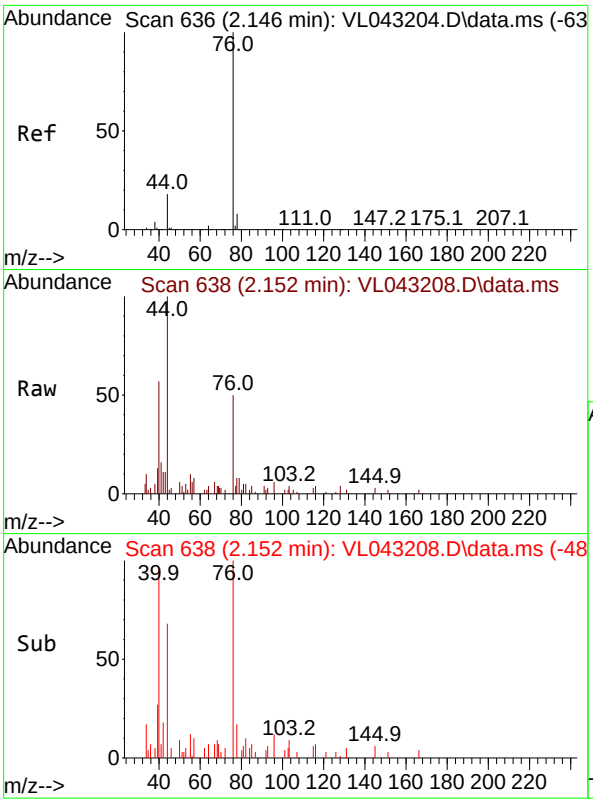


#26
Hexane
Concen: 0.121 ppbv
RT: 2.822 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



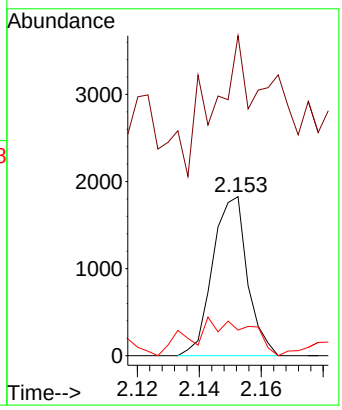


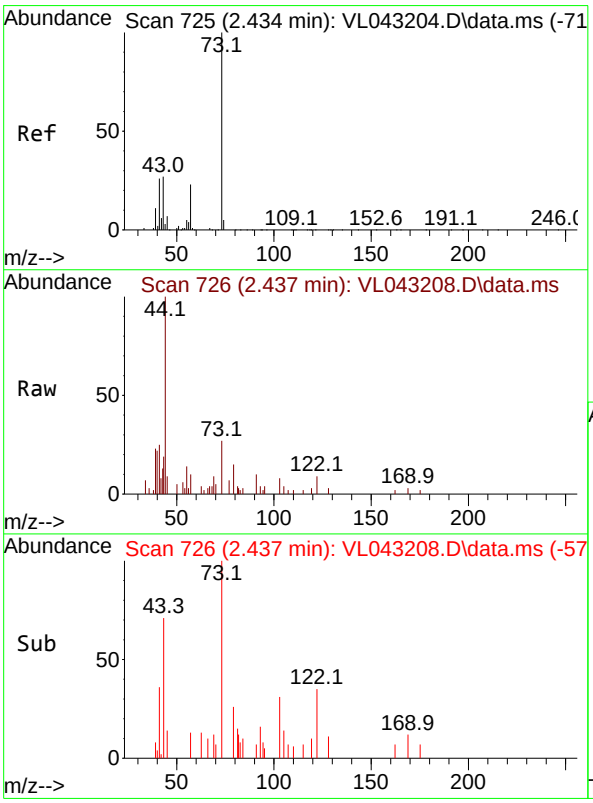
#27
Carbon Disulfide
Concen: 0.105 ppbv
RT: 2.152 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

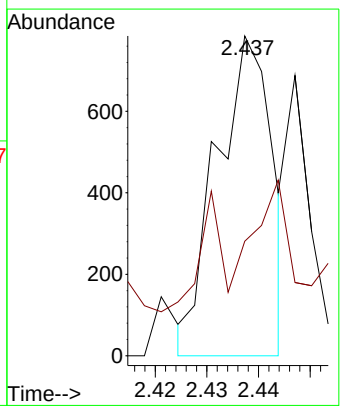


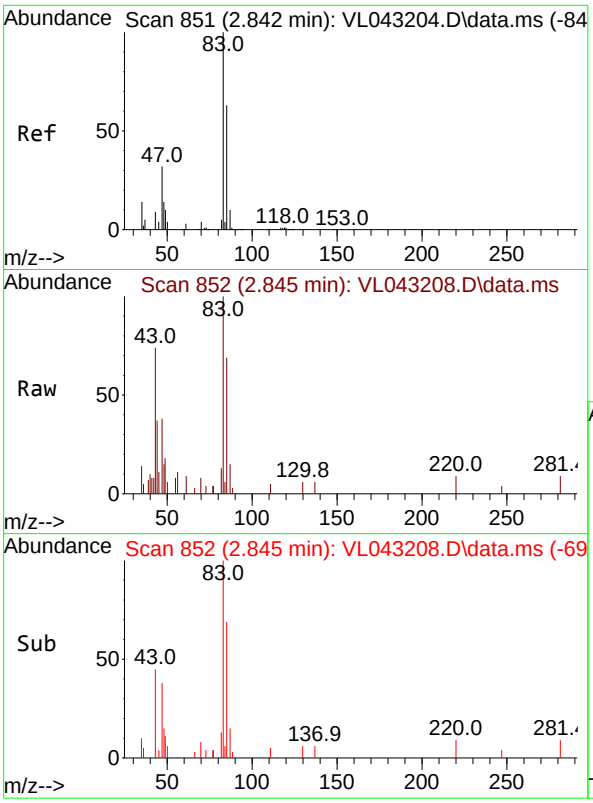


#28
Methyl tert-Butyl Ether
Concen: 0.089 ppbv
RT: 2.437 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 73 Resp: 585

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.8	29.8#



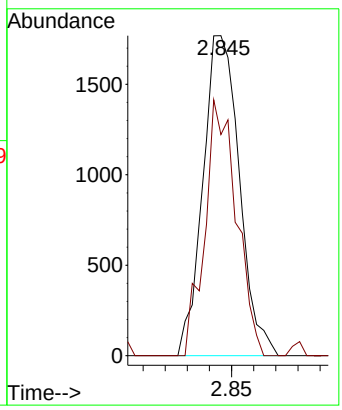


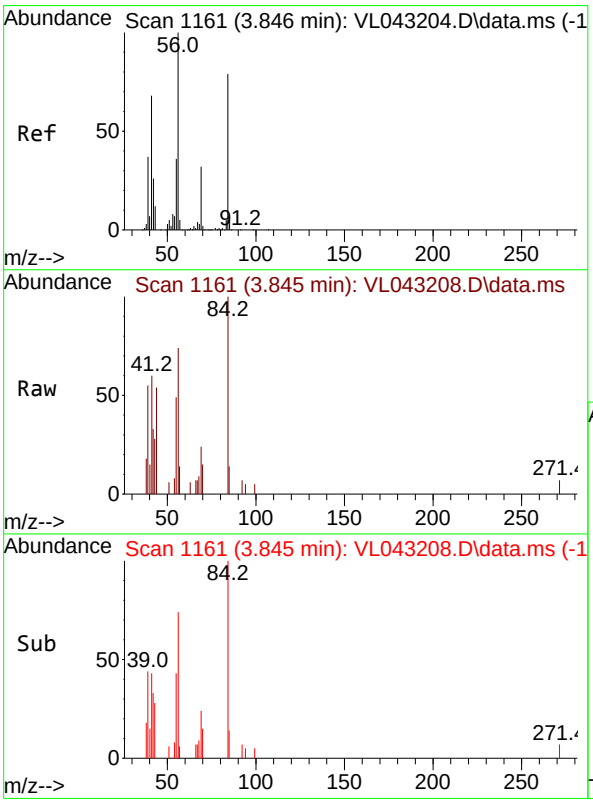
#29
Chloroform
Concen: 0.107 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 83 Resp: 2028

Ion	Ratio	Lower	Upper
83	100		
85	69.1	50.5	75.7

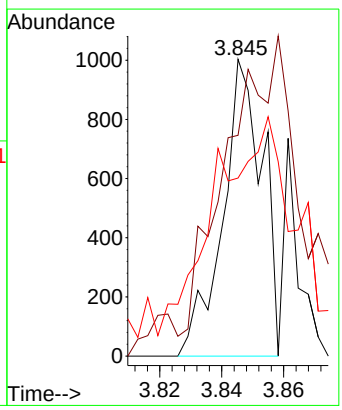


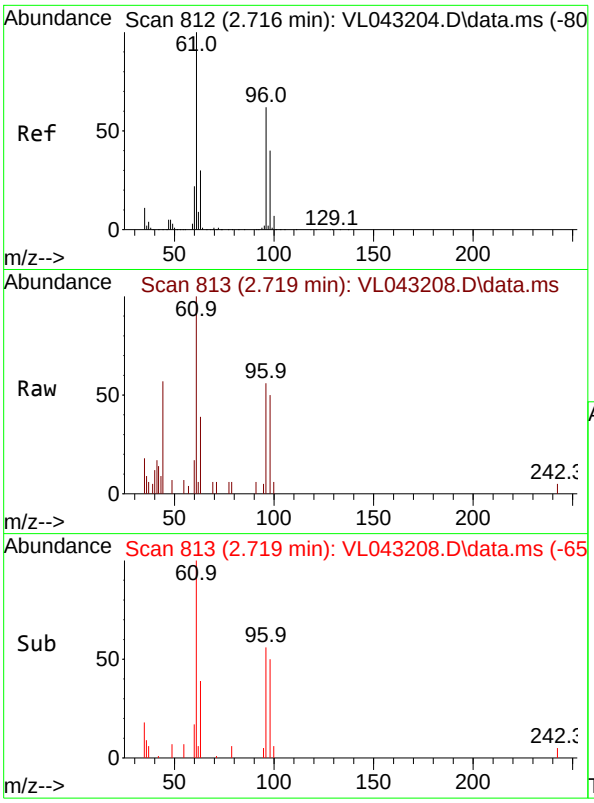


#30
Cyclohexane
Concen: 0.080 ppbv
RT: 3.845 min Scan# 1161
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#



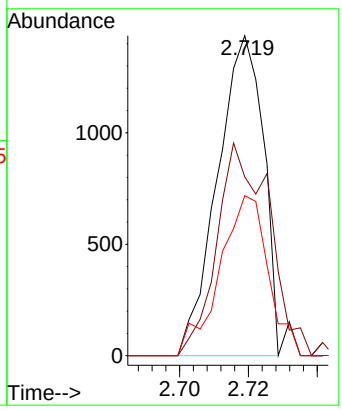


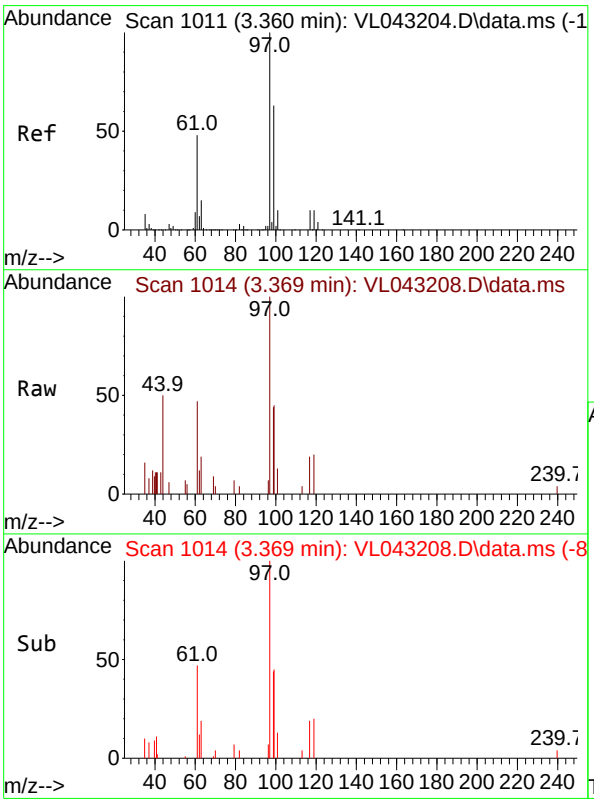
#31
cis-1,2-Dichloroethene
Concen: 0.101 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

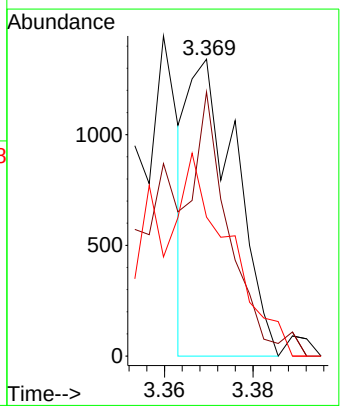


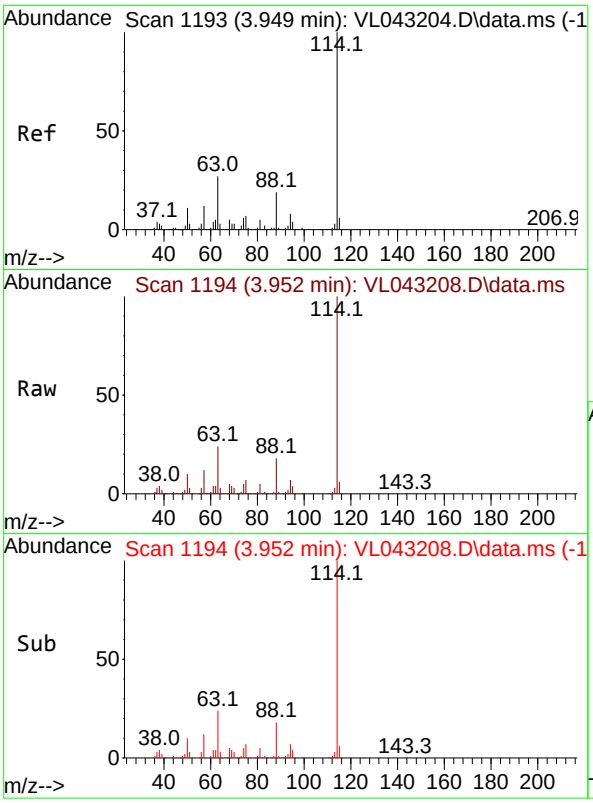


#32
1,1,1-Trichloroethane
Concen: 0.049 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.009 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#



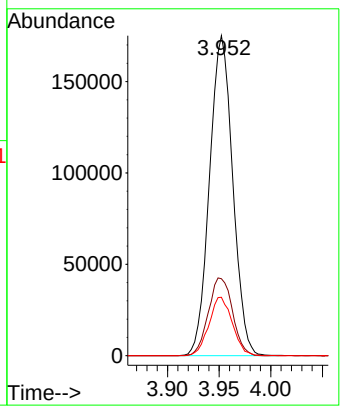


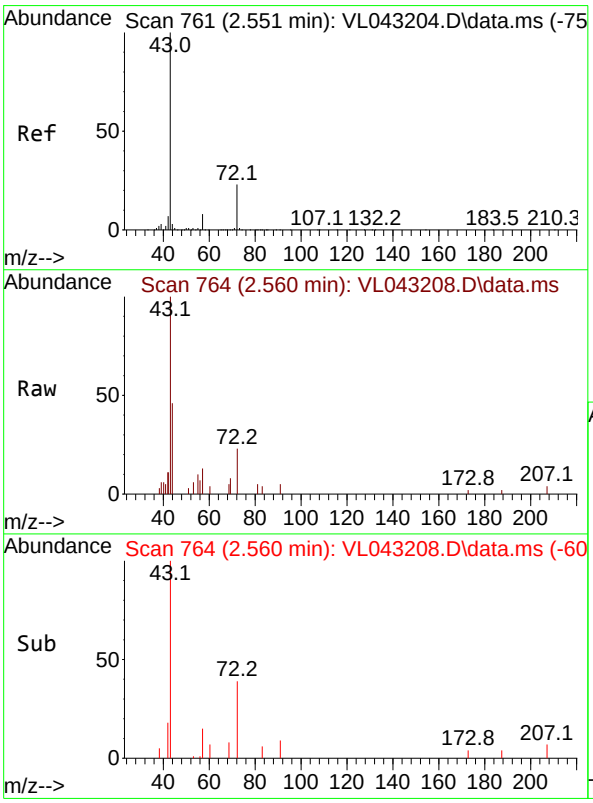
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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

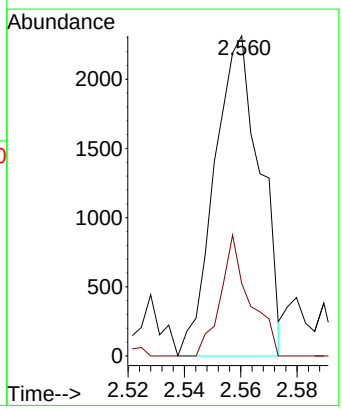


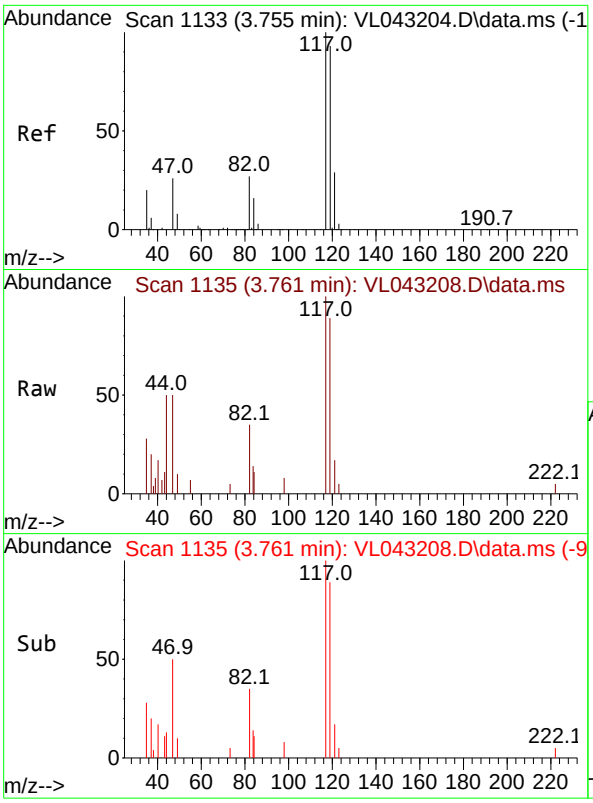


#34
2-Butanone
Concen: 0.134 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.009 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 43 Resp: 2593

Ion	Ratio	Lower	Upper
43	100		
72	24.3	18.1	27.1



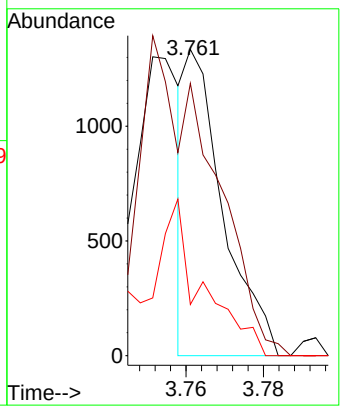


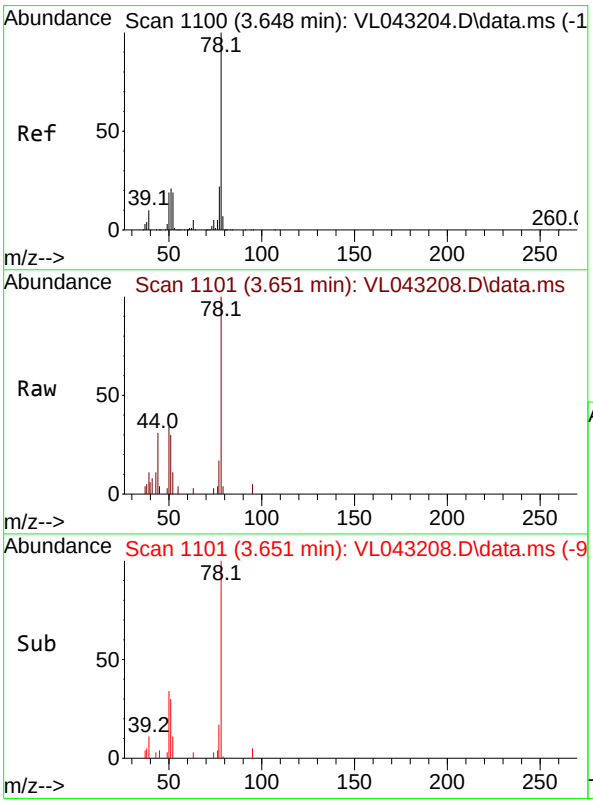
#35
Carbon Tetrachloride
Concen: 0.043 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

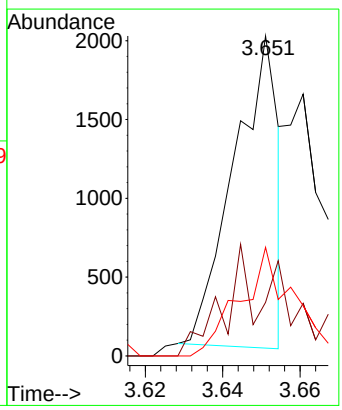


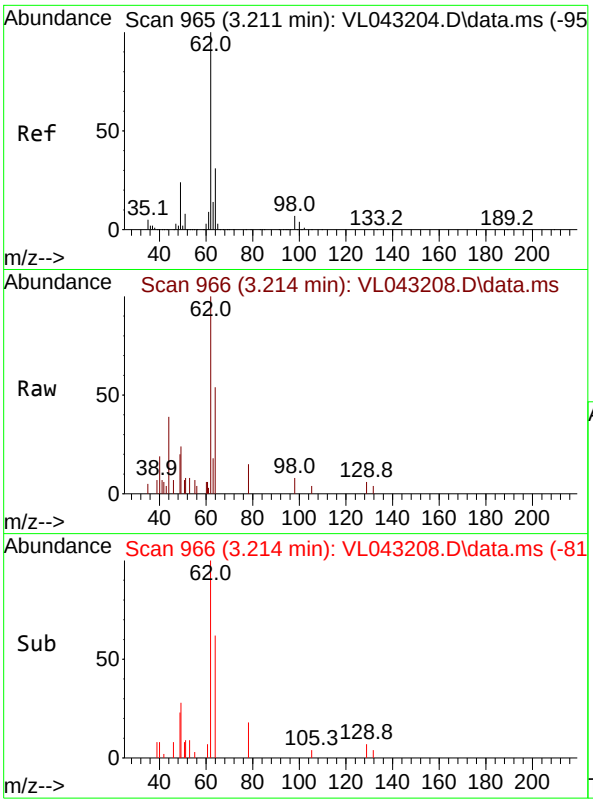


#36
Benzene
Concen: 0.060 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#



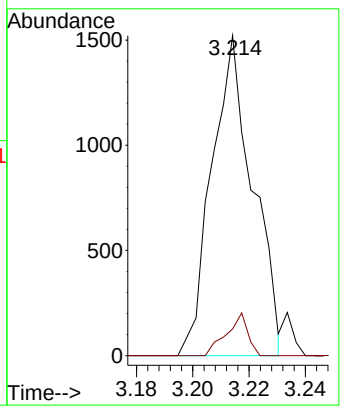


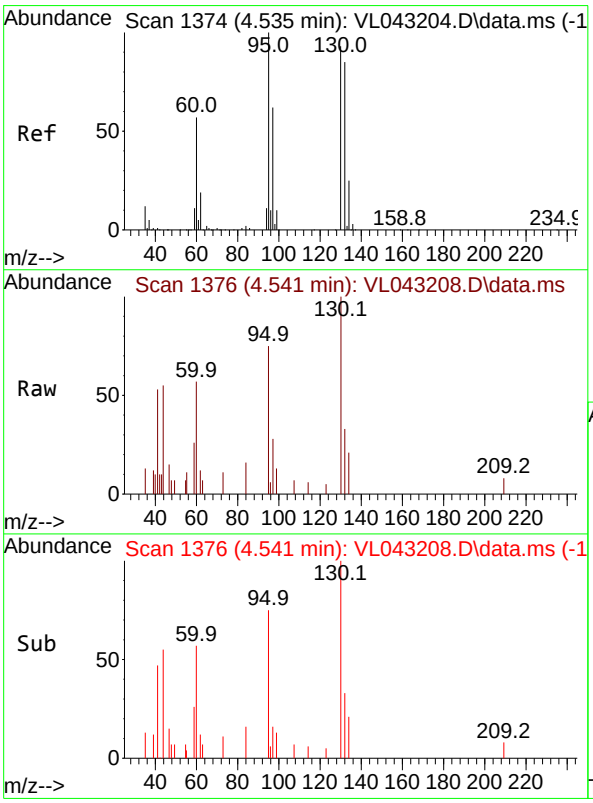
#37
1,2-Dichloroethane
Concen: 0.100 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 1537

Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.5	8.3

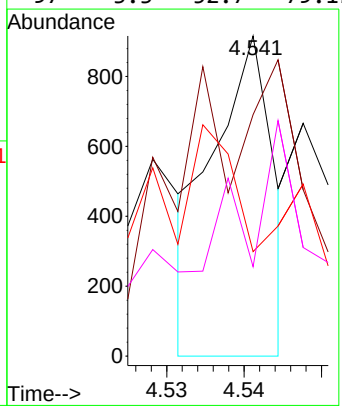


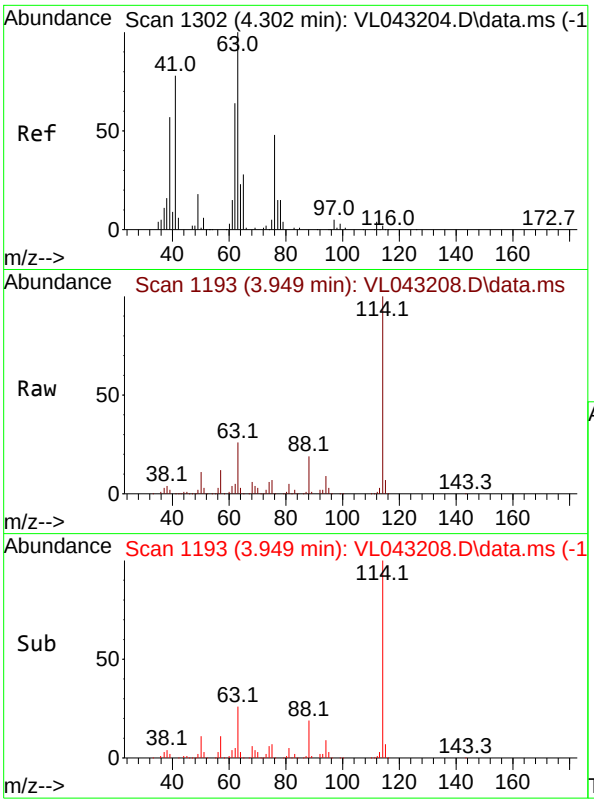


#38
Trichloroethene
Concen: 0.049 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#



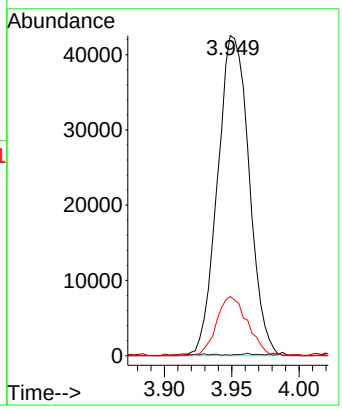


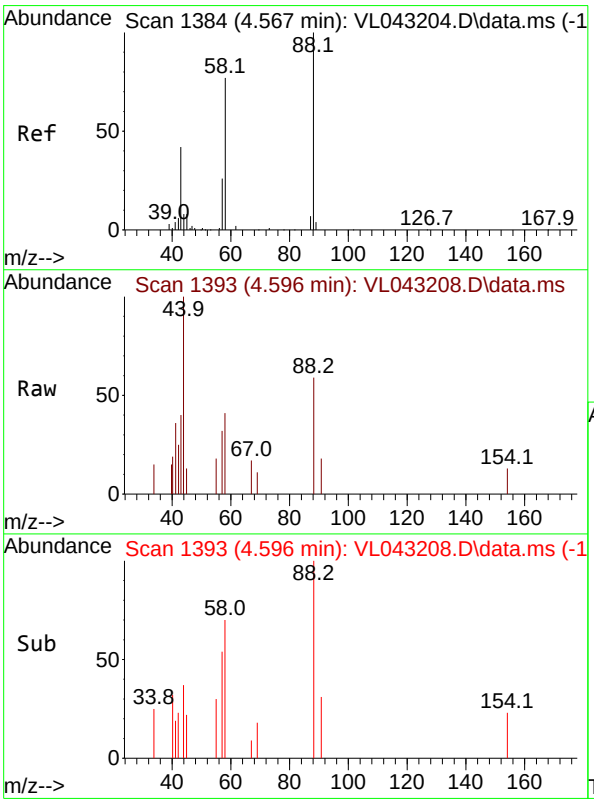
#39
1,2-Dichloropropane
Concen: 7.207 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.353 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

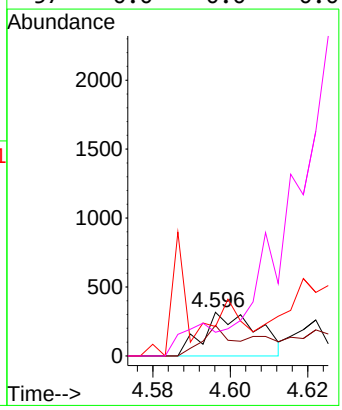


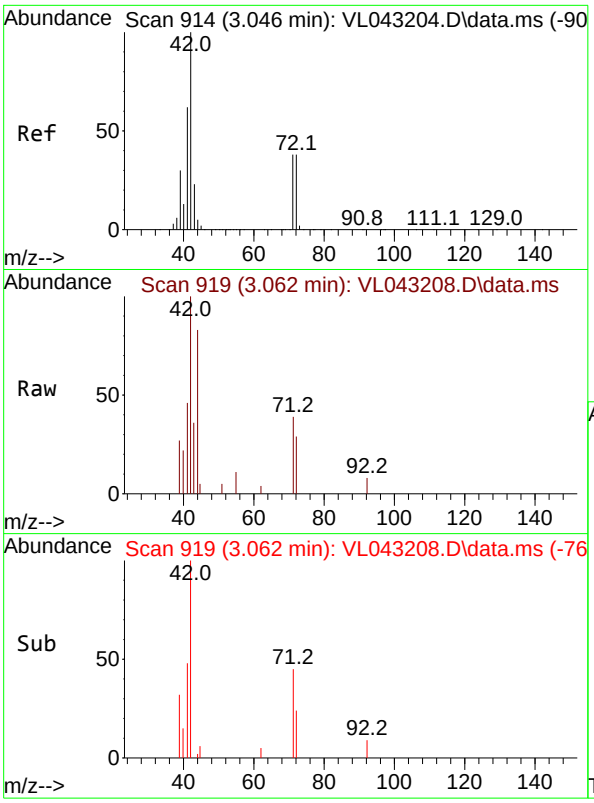


#40
1,4-Dioxane
Concen: 0.071 ppbv
RT: 4.596 min Scan# 1393
Delta R.T. 0.029 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



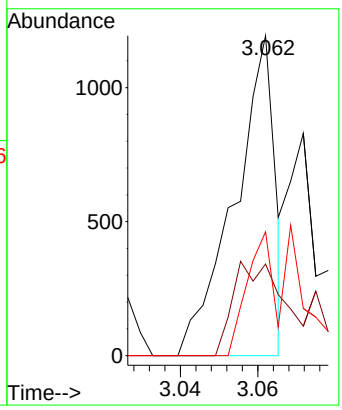


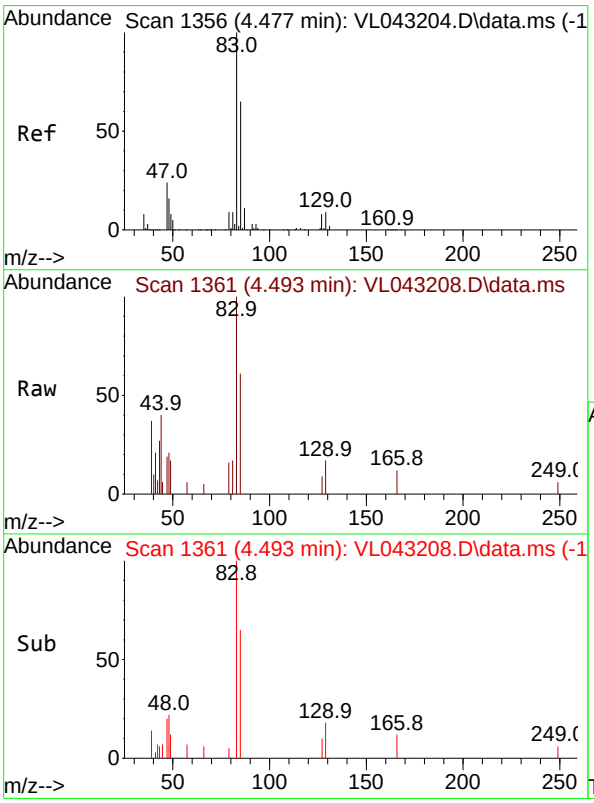
#41
Tetrahydrofuran
Concen: 0.081 ppbv
RT: 3.062 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

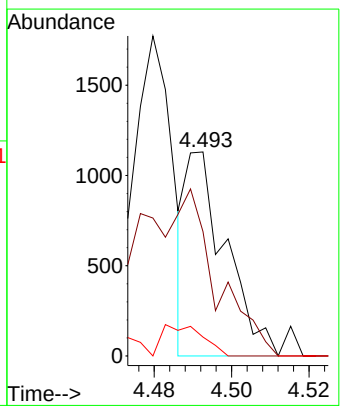


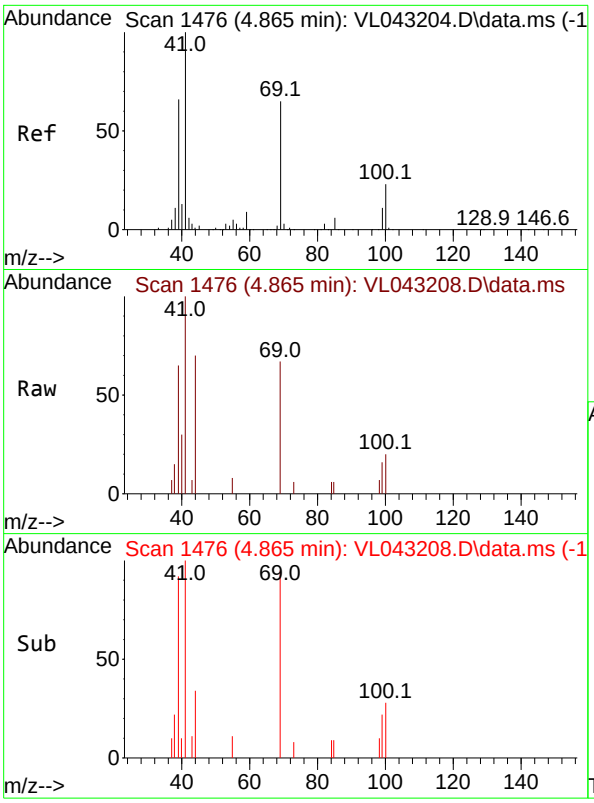


#42
Bromodichloromethane
Concen: 0.038 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.016 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



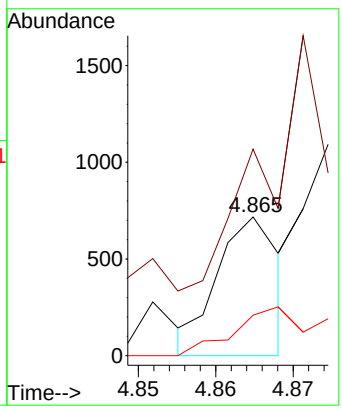


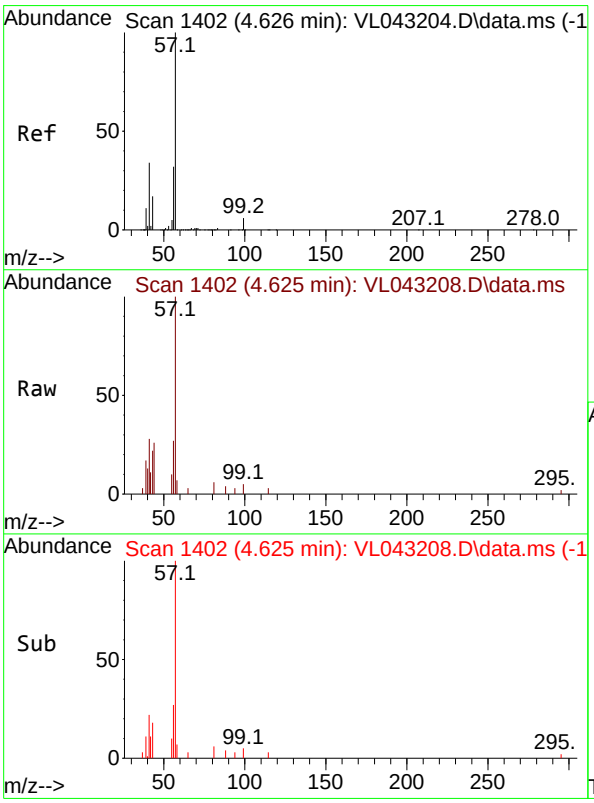
#43
Methyl Methacrylate
Concen: 0.028 ppbv
RT: 4.865 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

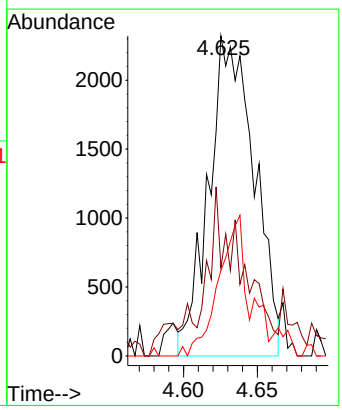


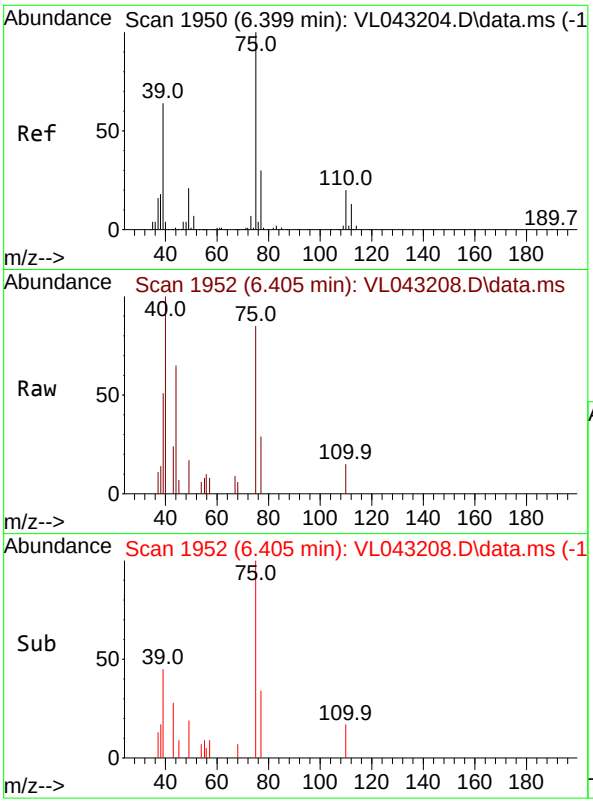


#44
2,2,4-Trimethylpentane
Concen: 0.110 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



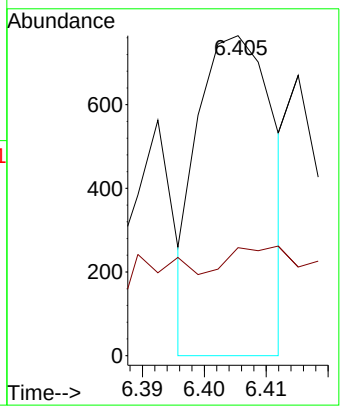


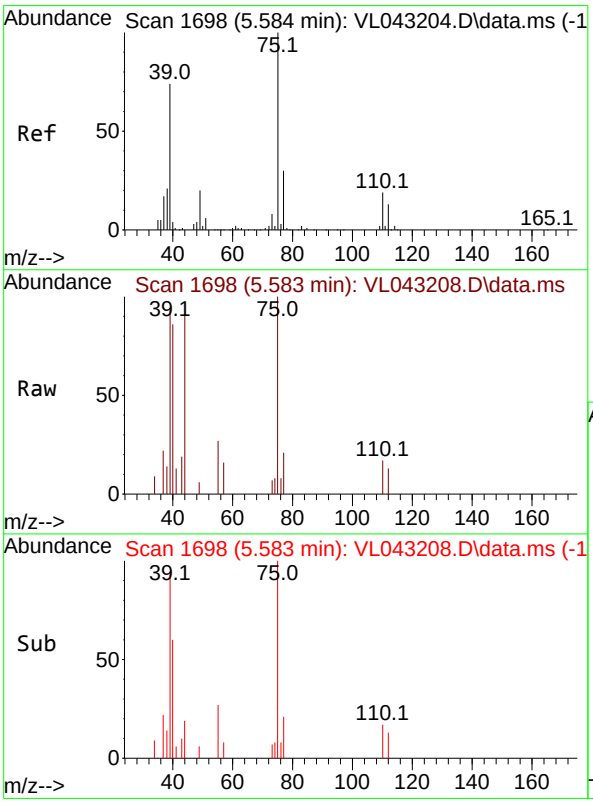
#45
t-1,3-Dichloropropene
Concen: 0.050 ppbv
RT: 6.405 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 75 Resp: 645

Ion	Ratio	Lower	Upper
75	100		
77	33.7	24.3	36.5

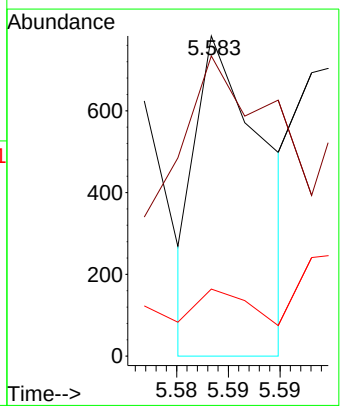


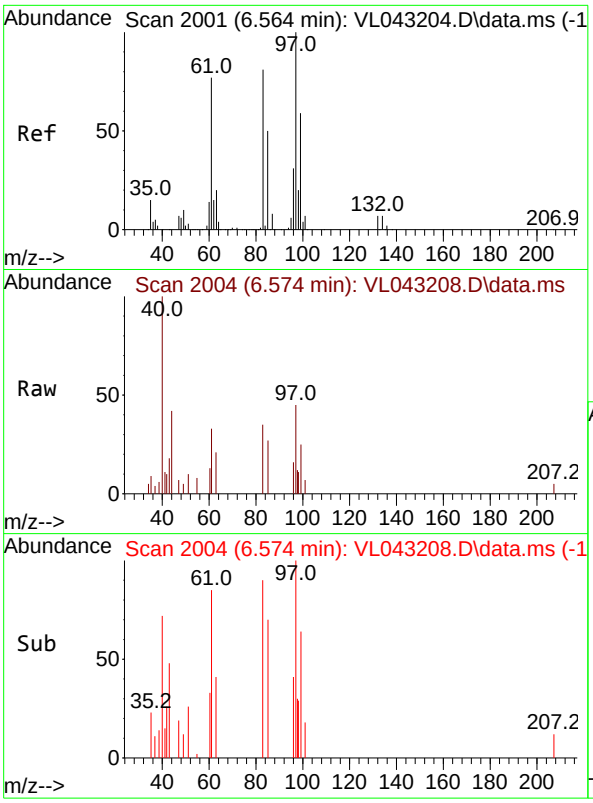


#46
cis-1,3-Dichloropropene
Concen: 0.024 ppbv
RT: 5.583 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#



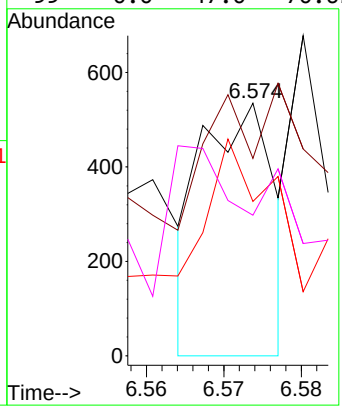


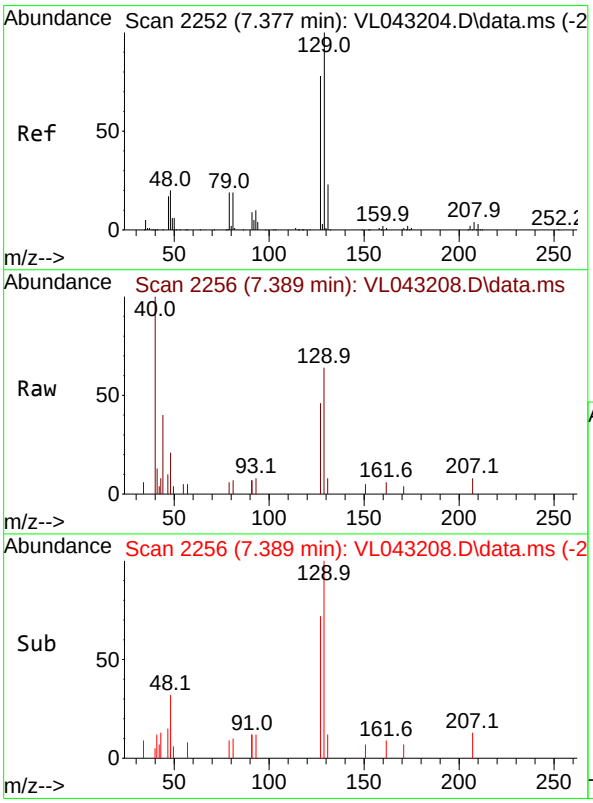
#47
1,1,2-Trichloroethane
Concen: 0.034 ppbv
RT: 6.574 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

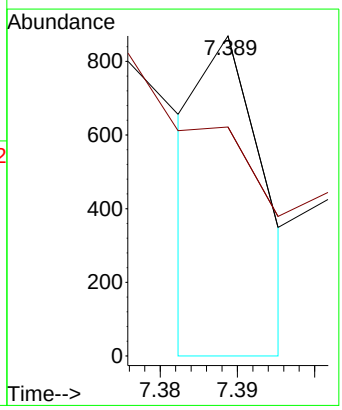


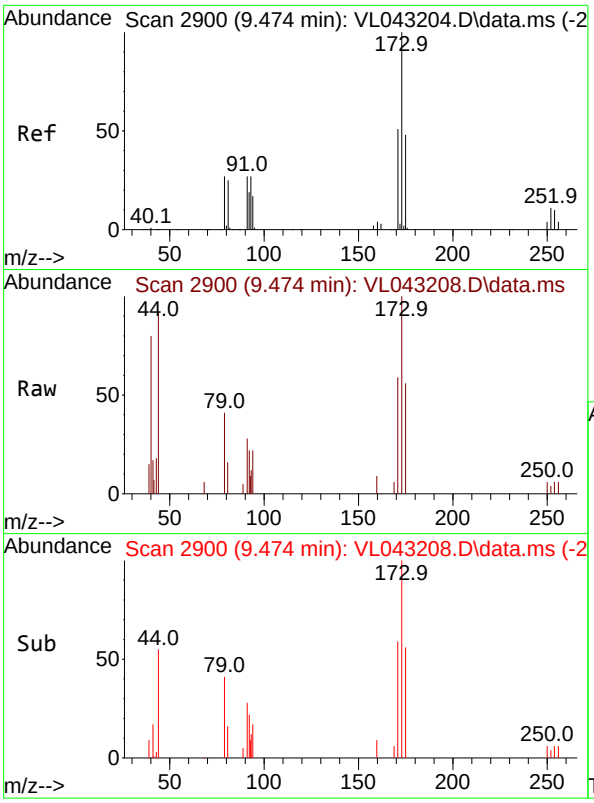


#48
Dibromochloromethane
Concen: 0.014 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.013 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:129 Resp: 237

Ion	Ratio	Lower	Upper
129	100		
127	547.7	39.3	117.9#



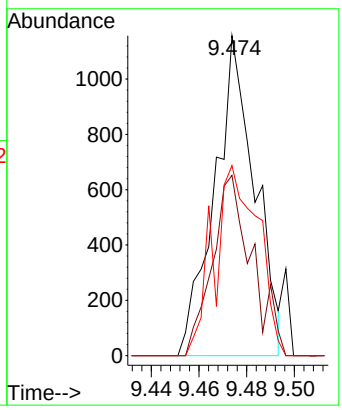


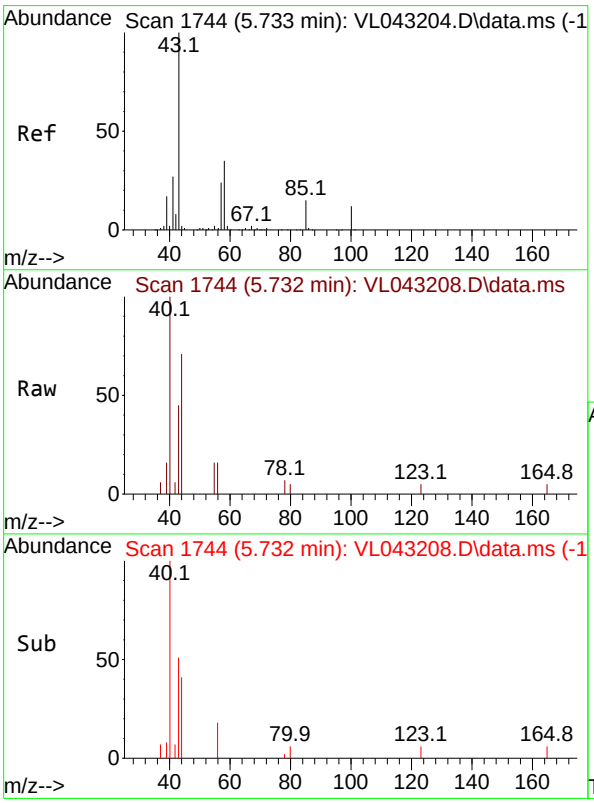
#49
Bromoform
Concen: 0.087 ppbv
RT: 9.474 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

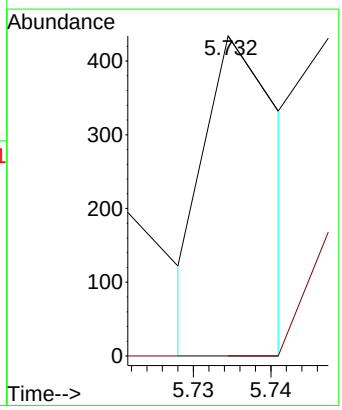


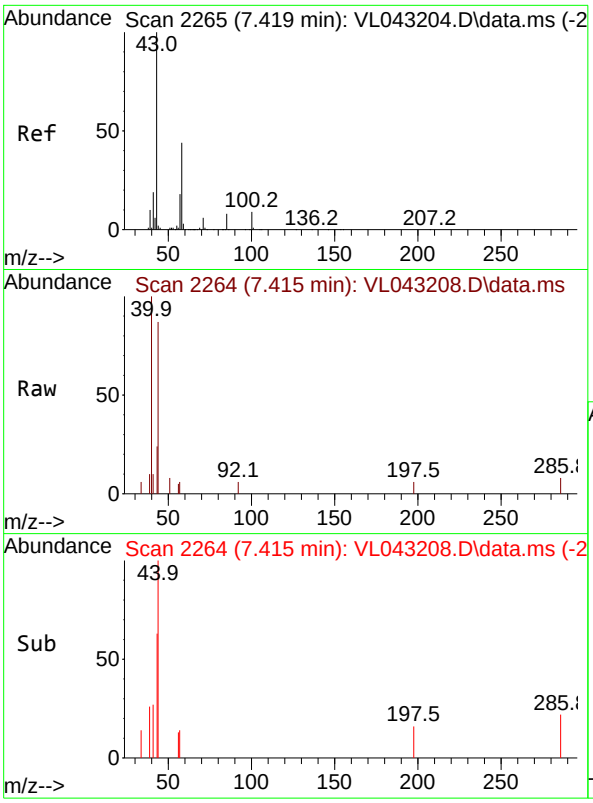


#50
4-Methyl-2-Pentanone
Concen: 0.005 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 43 Resp: 149

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#



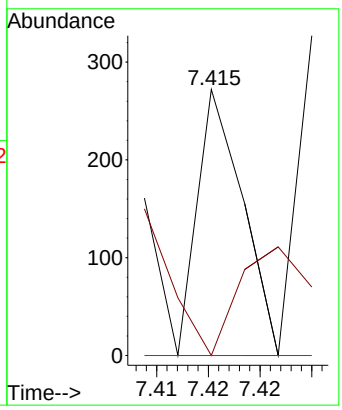


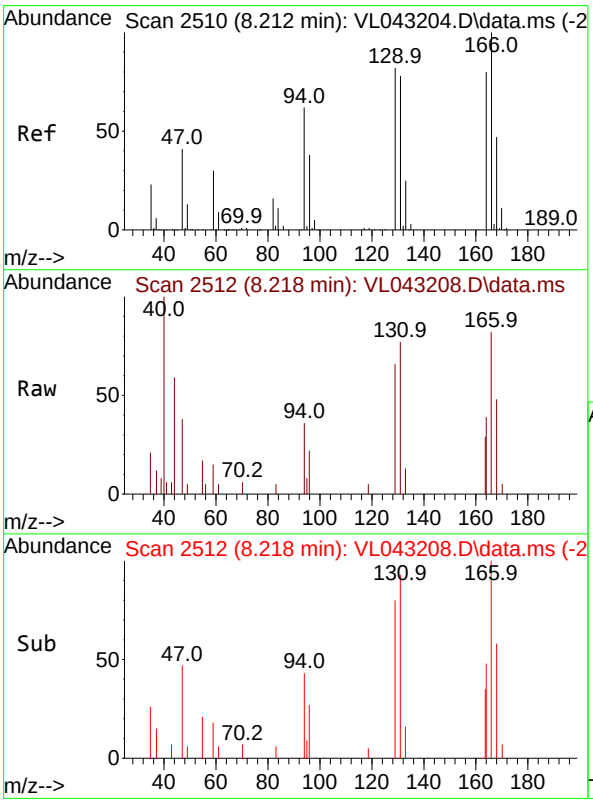
#51
2-Hexanone
Concen: 0.004 ppbv
RT: 7.415 min Scan# 2
Delta R.T. -0.004 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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

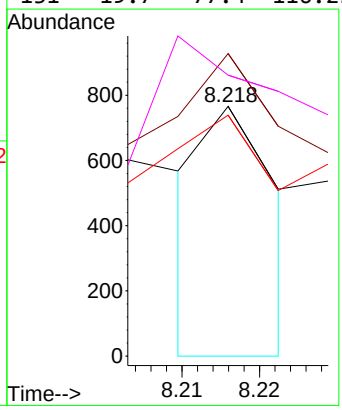


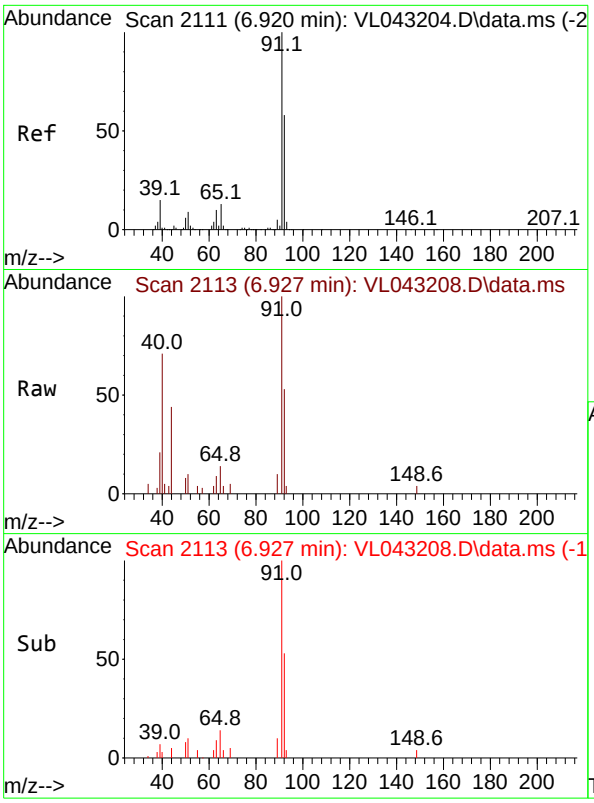


#52
Tetrachloroethene
Concen: 0.025 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#



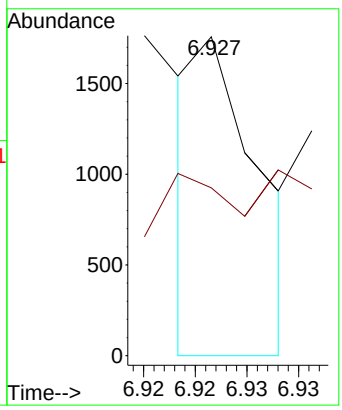


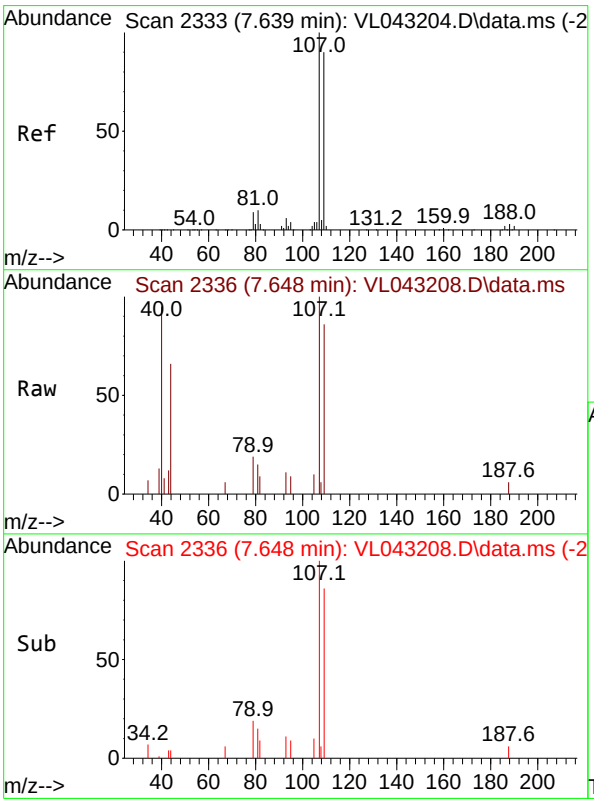
#53
Toluene
Concen: 0.023 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 734

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.0#

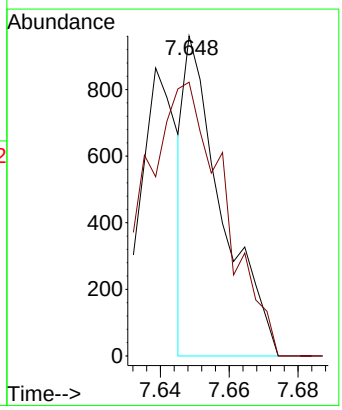


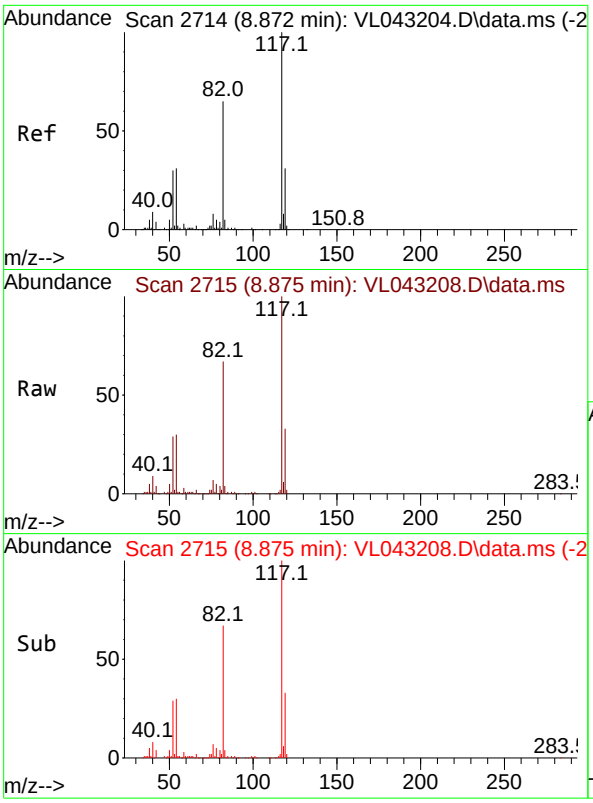


#54
1,2-Dibromoethane
Concen: 0.048 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.009 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:107 Resp: 719

Ion	Ratio	Lower	Upper
107	100		
109	85.5	72.1	108.1



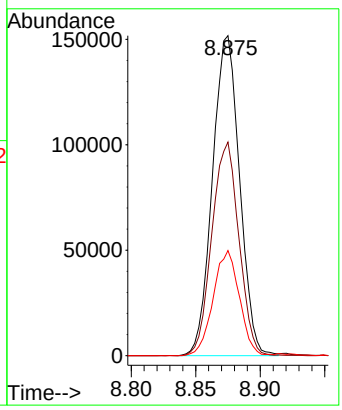


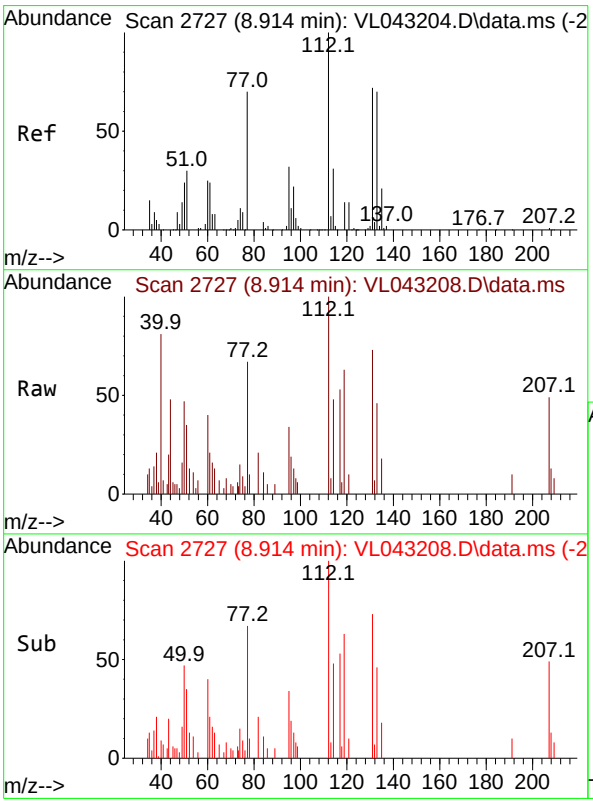
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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

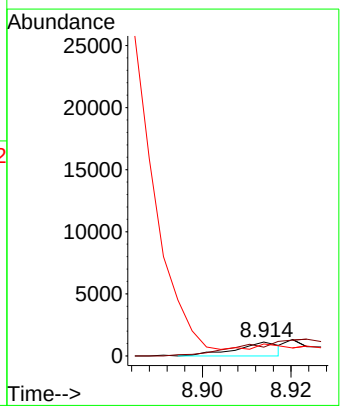


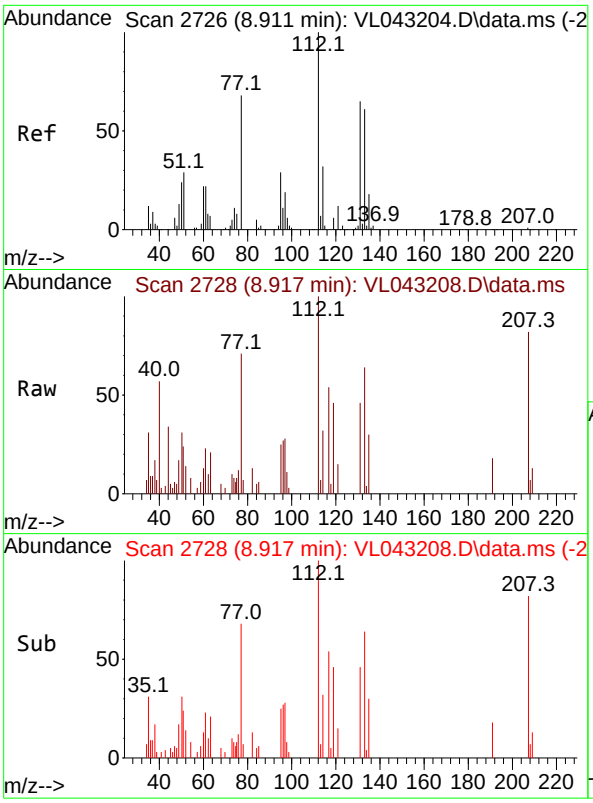


#56
1,1,1,2-Tetrachloroethane
Concen: 0.047 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#



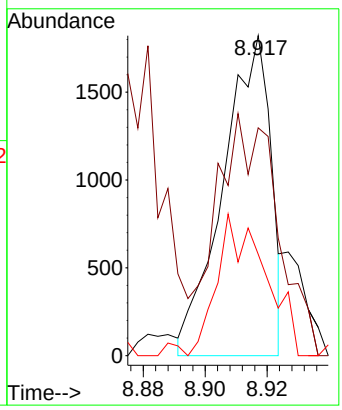


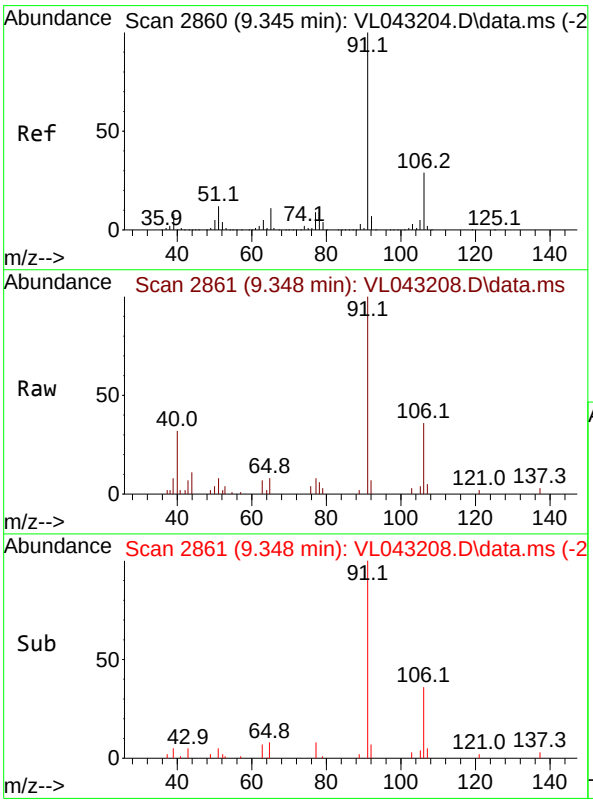
#57
Chlorobenzene
Concen: 0.086 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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

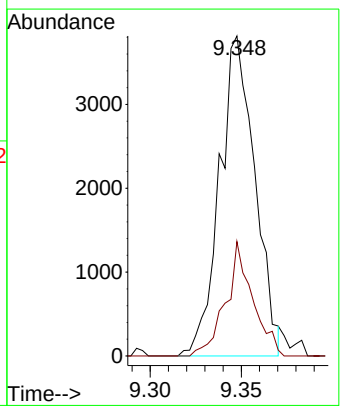


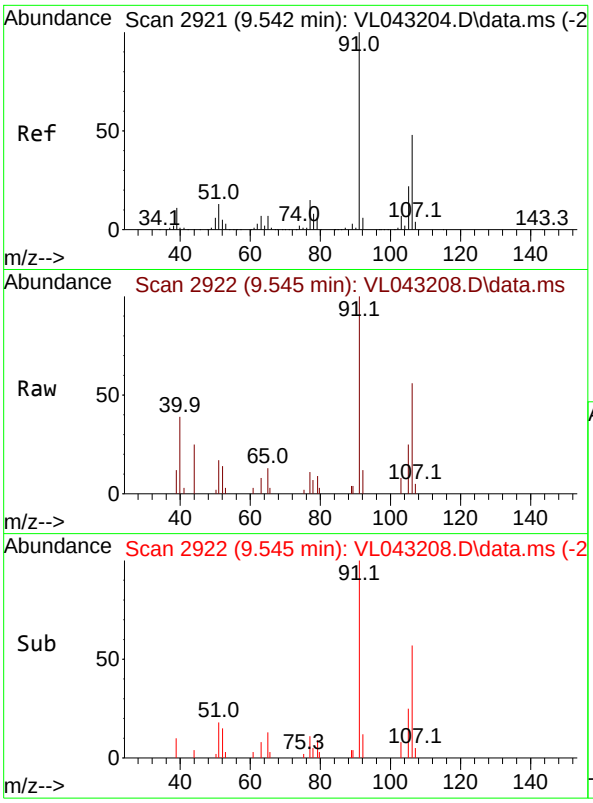


#58
Ethyl Benzene
Concen: 0.121 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 91 Resp: 5157

Ion	Ratio	Lower	Upper
91	100		
106	35.7	22.8	34.2#



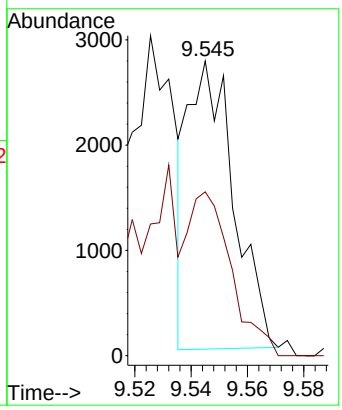


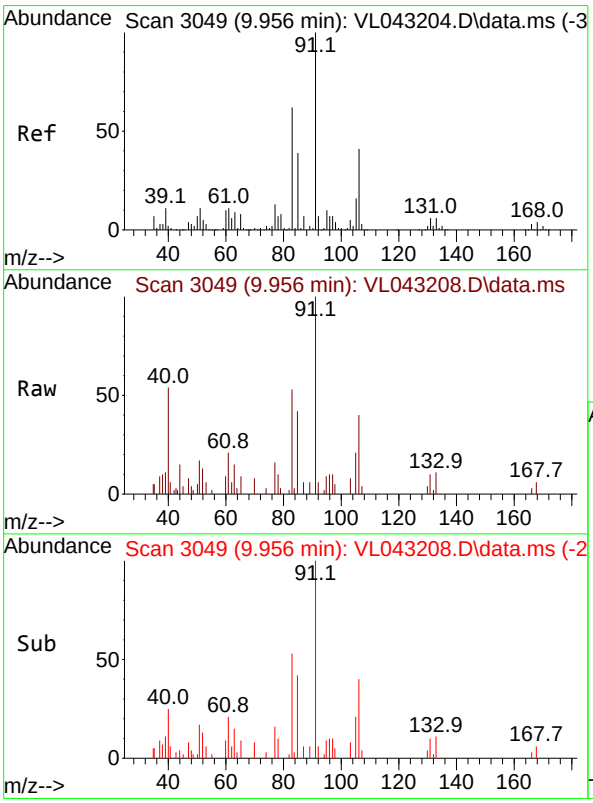
#59
m/p-Xylene
Concen: 0.090 ppbv
RT: 9.545 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 3099

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

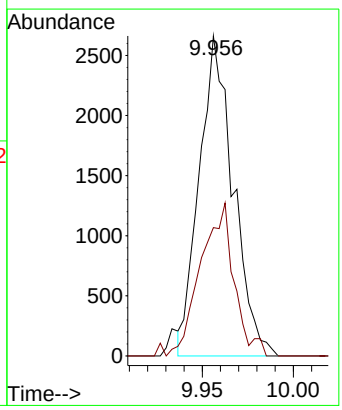


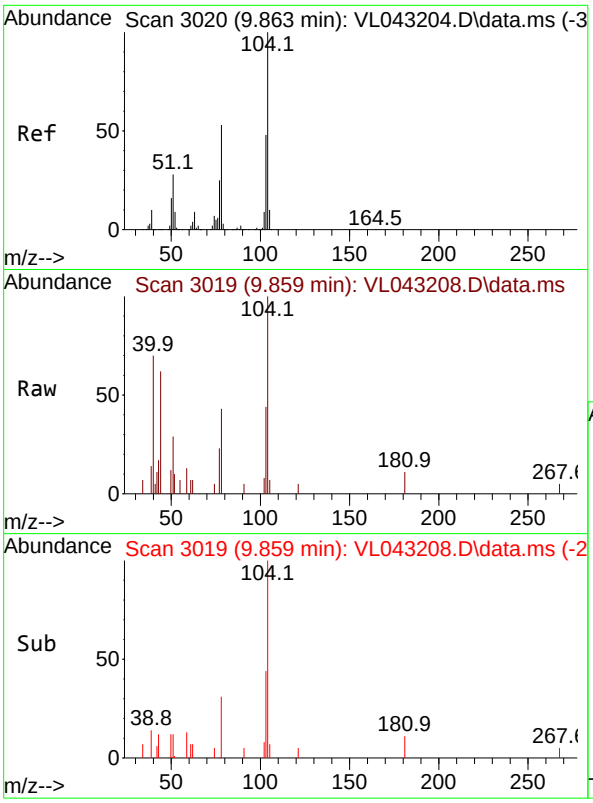


#60
o-Xylene
Concen: 0.101 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 91 Resp: 3453

Ion	Ratio	Lower	Upper
91	100		
106	47.5	20.9	62.8



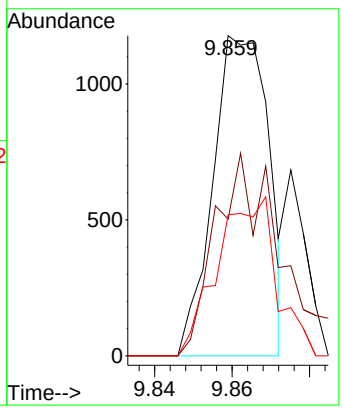


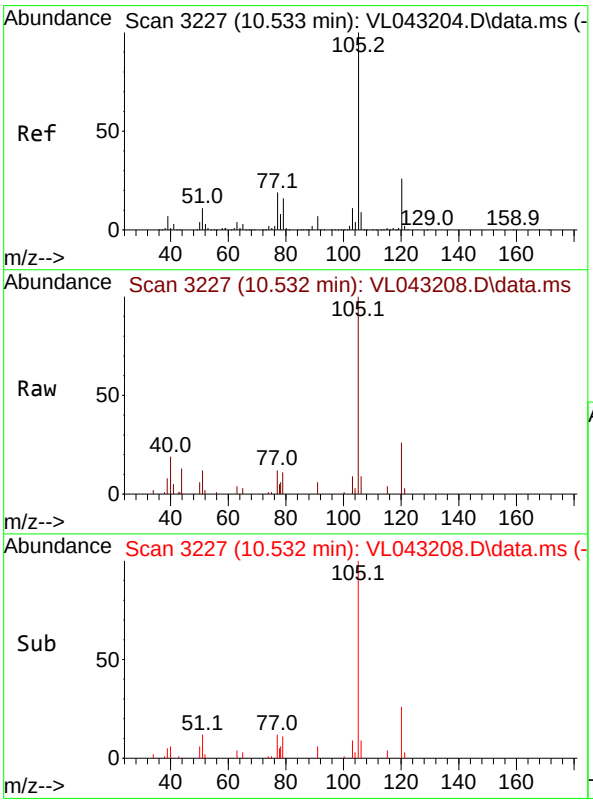
#61
Styrene
Concen: 0.079 ppbv
RT: 9.859 min Scan# 3
Delta R.T. -0.004 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

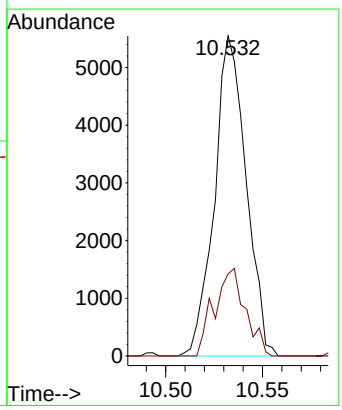


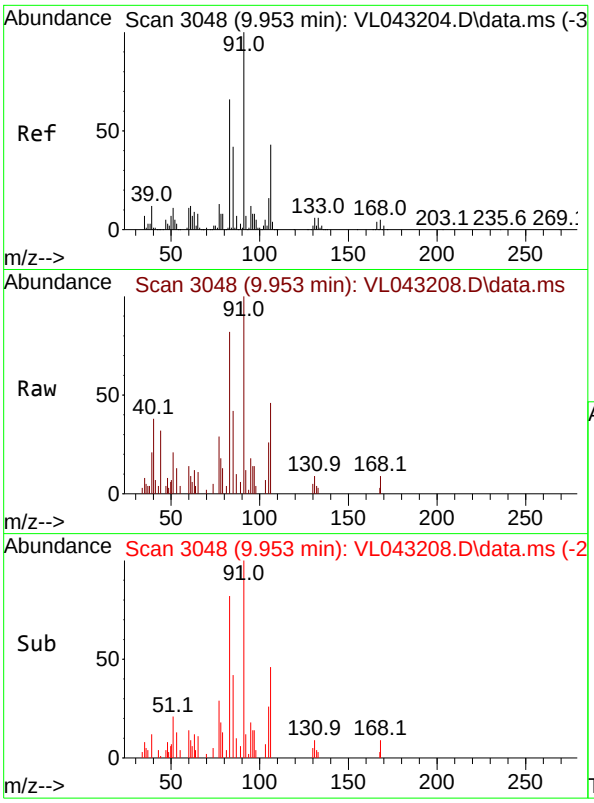


#62
Isopropylbenzene
Concen: 0.103 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:105 Resp: 6313

Ion	Ratio	Lower	Upper
105	100		
120	26.9	19.8	29.8



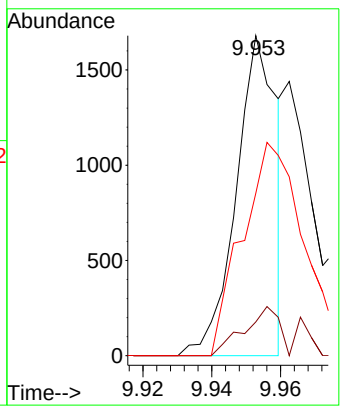


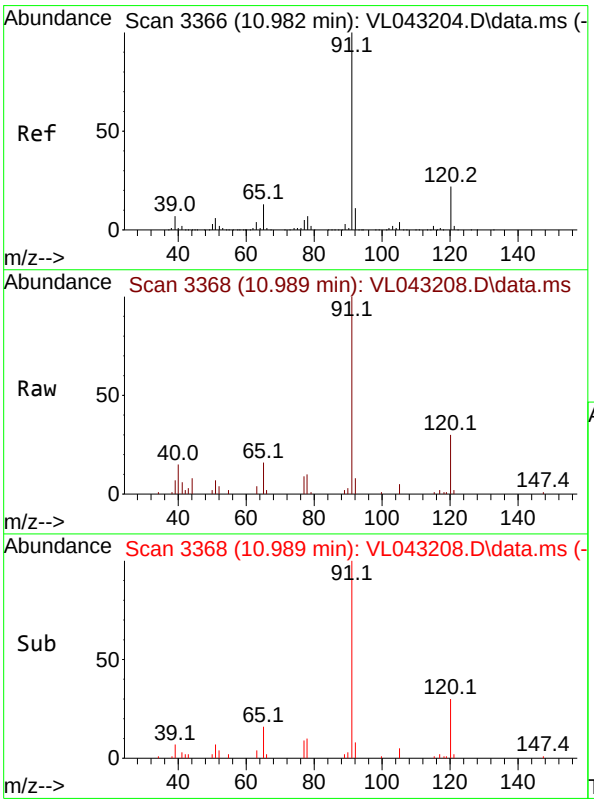
#63
1,1,2,2-Tetrachloroethane
Concen: 0.064 ppbv
RT: 9.953 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

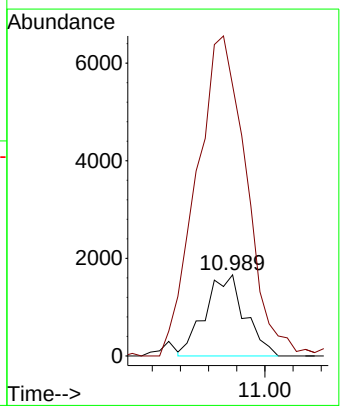


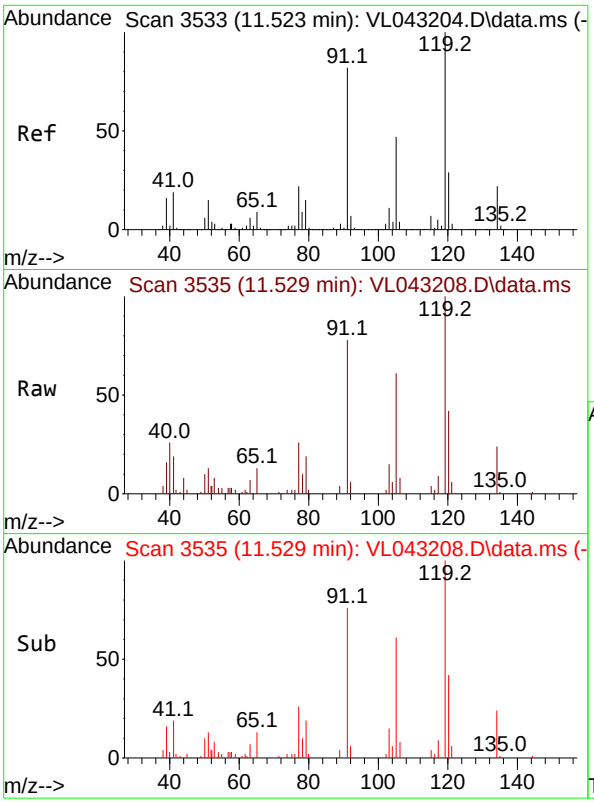


#64
n-propylbenzene
Concen: 0.104 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:120 Resp: 1635

Ion	Ratio	Lower	Upper
120	100		
91	507.0	377.1	565.7



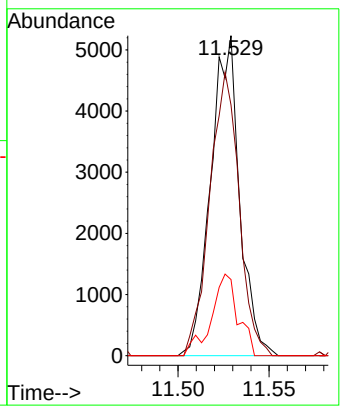


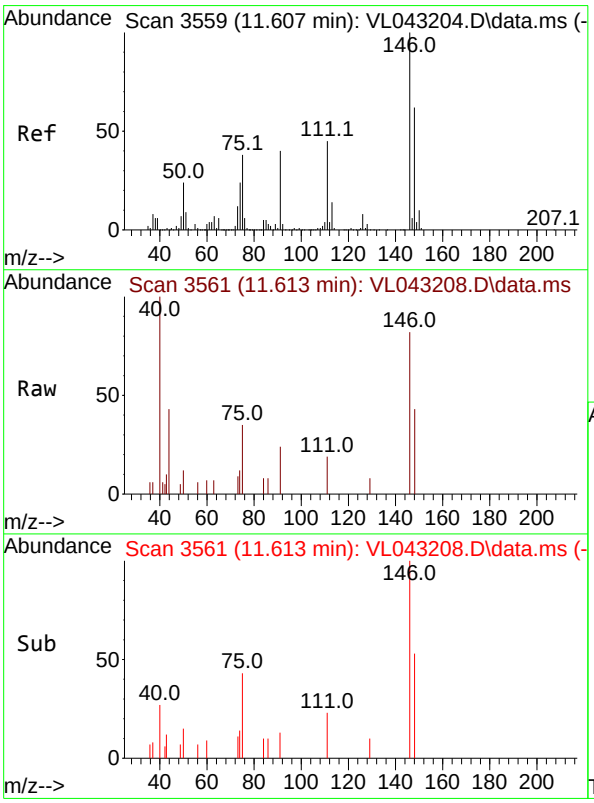
#65
tert-Butylbenzene
Concen: 0.105 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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

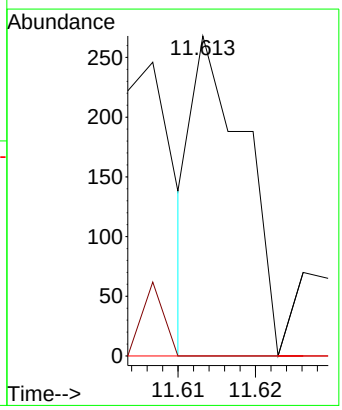


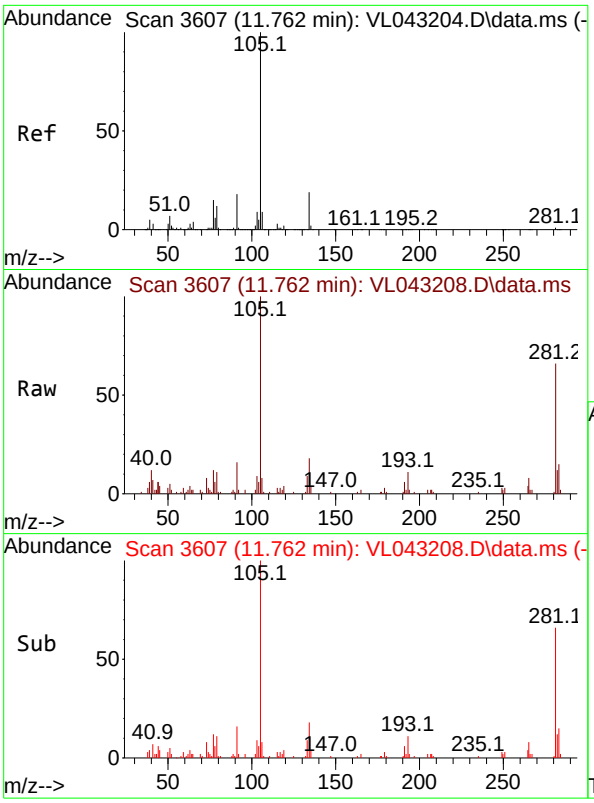


#66
Benzyl Chloride
Concen: 0.023 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#



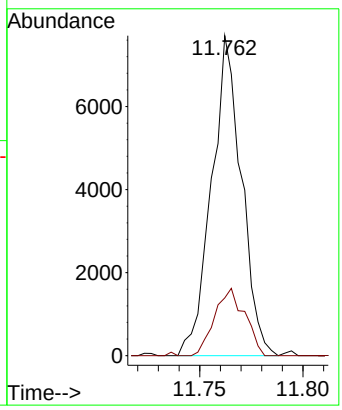


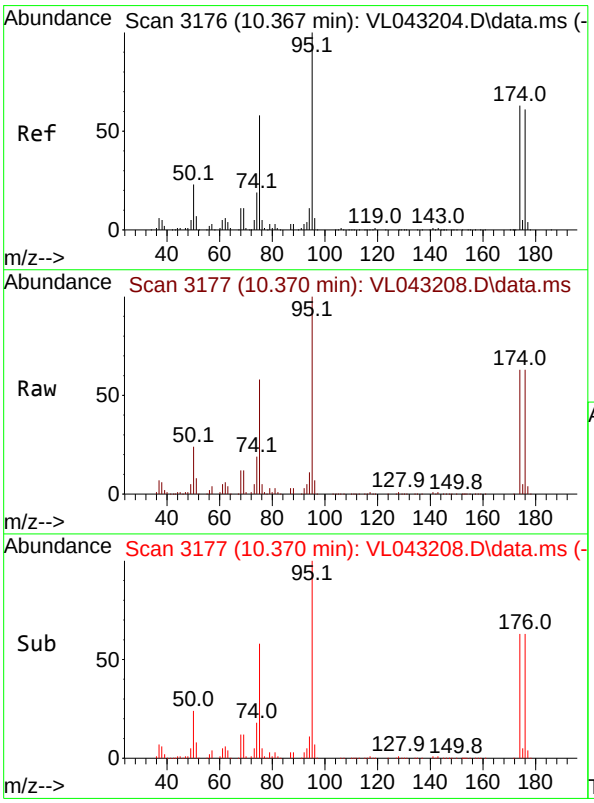
#67
sec-Butylbenzene
Concen: 0.102 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 7764

Ion	Ratio	Lower	Upper
105	100		
134	21.5	15.0	22.6

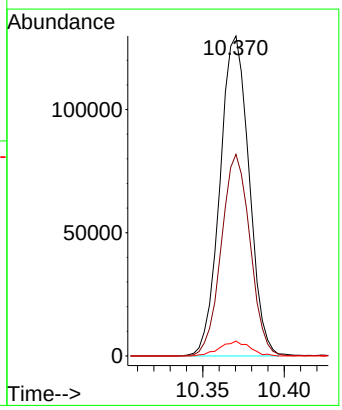


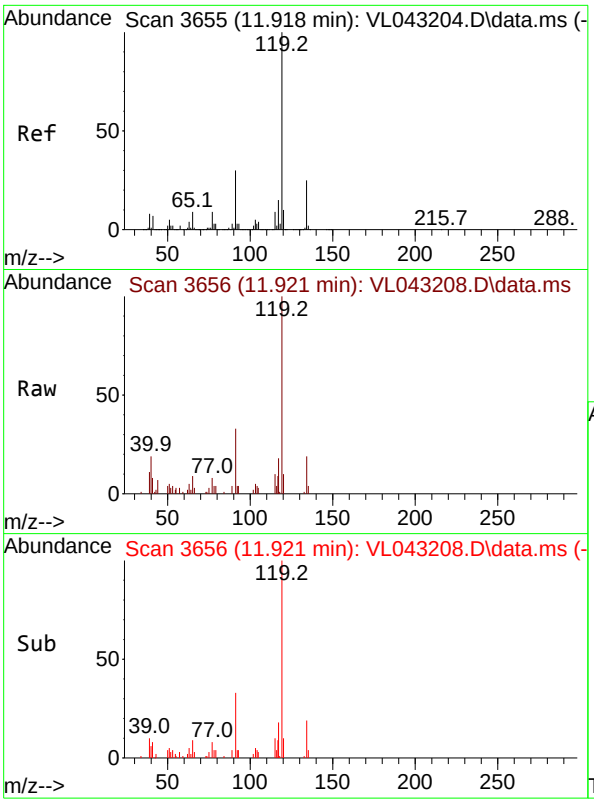


#68
1-Bromo-4-Fluorobenzene
Concen: 9.890 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



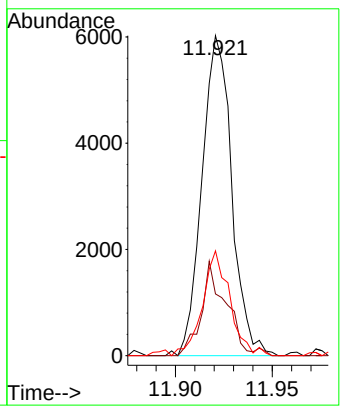


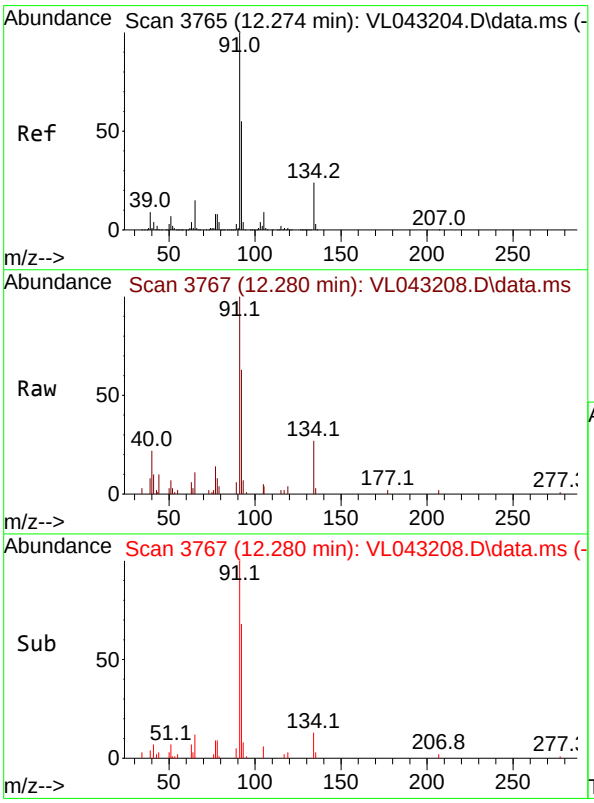
#69
p-Isopropyltoluene
Concen: 0.099 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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

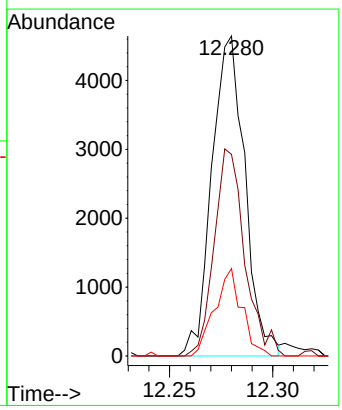


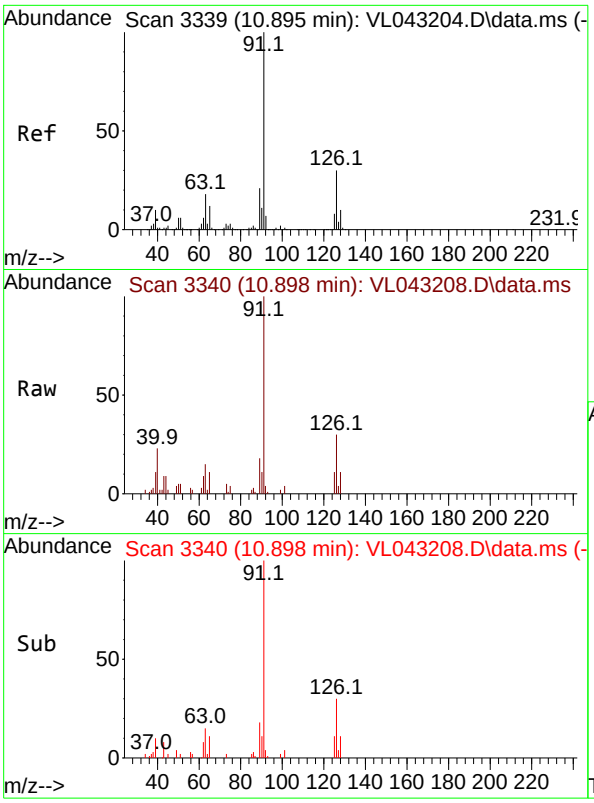


#70
n-Butylbenzene
Concen: 0.082 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



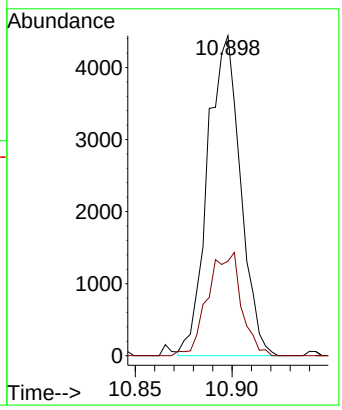


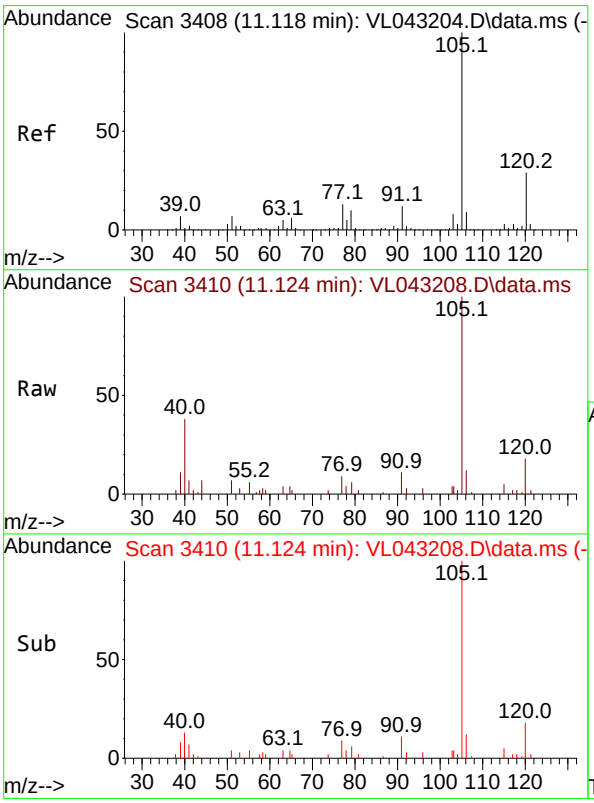
#71
2-Chlorotoluene
Concen: 0.111 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 5248

Ion	Ratio	Lower	Upper
91	100		
126	32.9	11.7	46.7

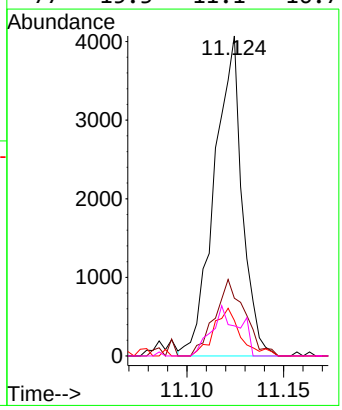


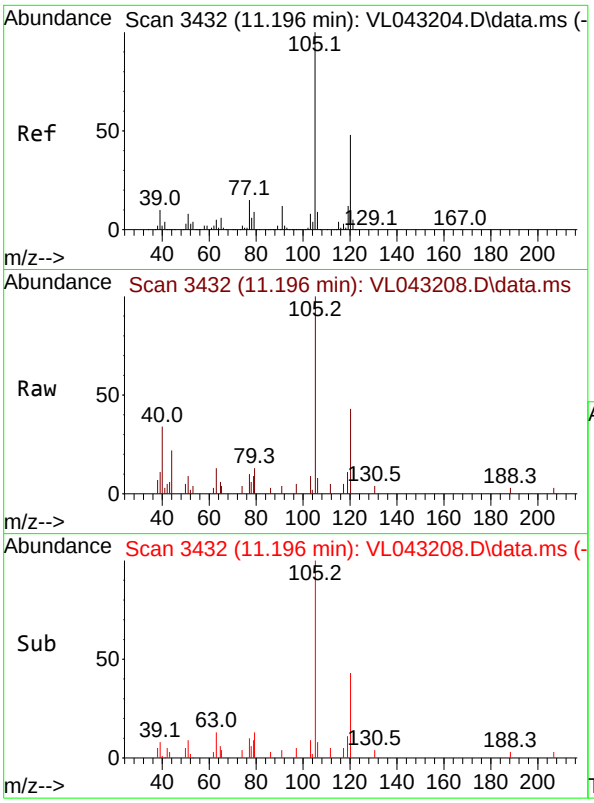


#72
4-Ethyltoluene
Concen: 0.097 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



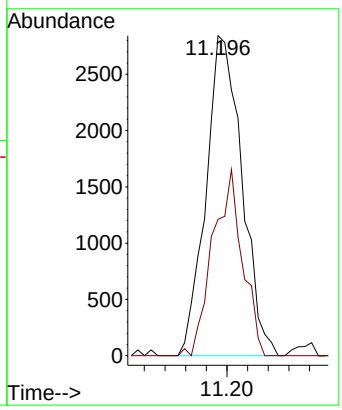


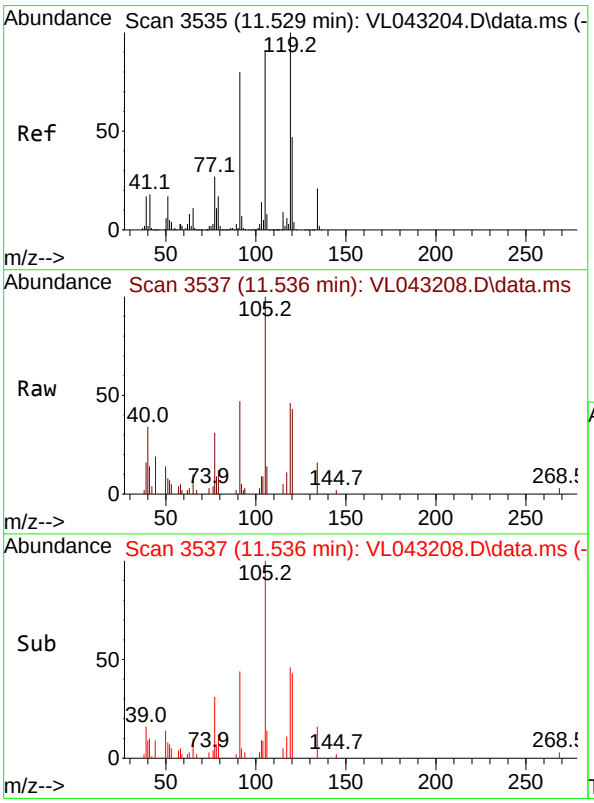
#73
1,3,5-Trimethylbenzene
Concen: 0.098 ppbv
RT: 11.196 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 3445

Ion	Ratio	Lower	Upper
105	100		
120	42.6	38.6	57.8

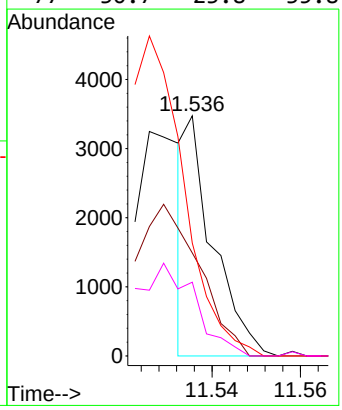


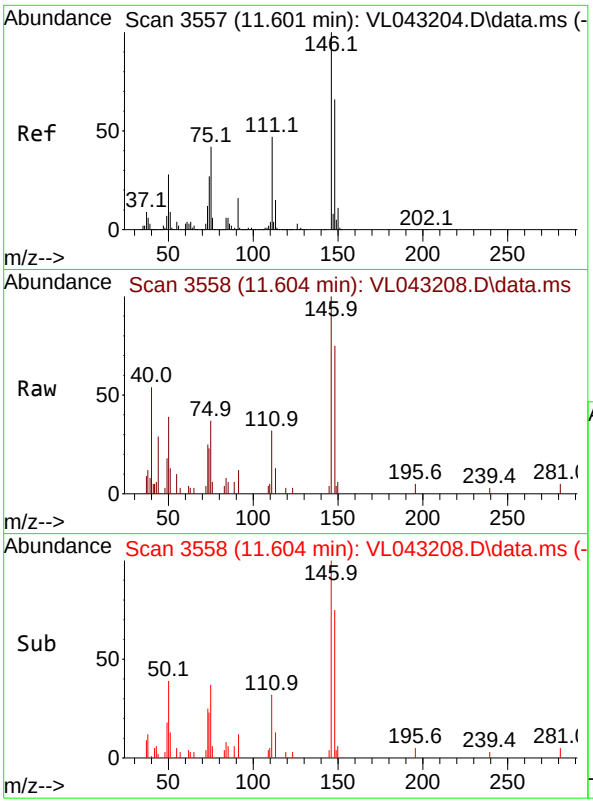


#74
1,2,4-Trimethylbenzene
Concen: 0.039 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



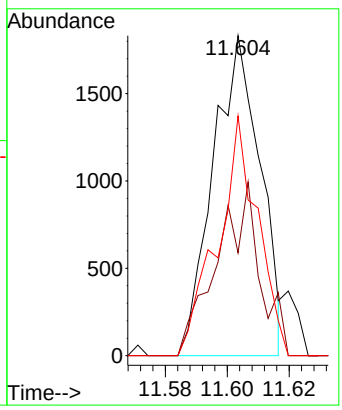


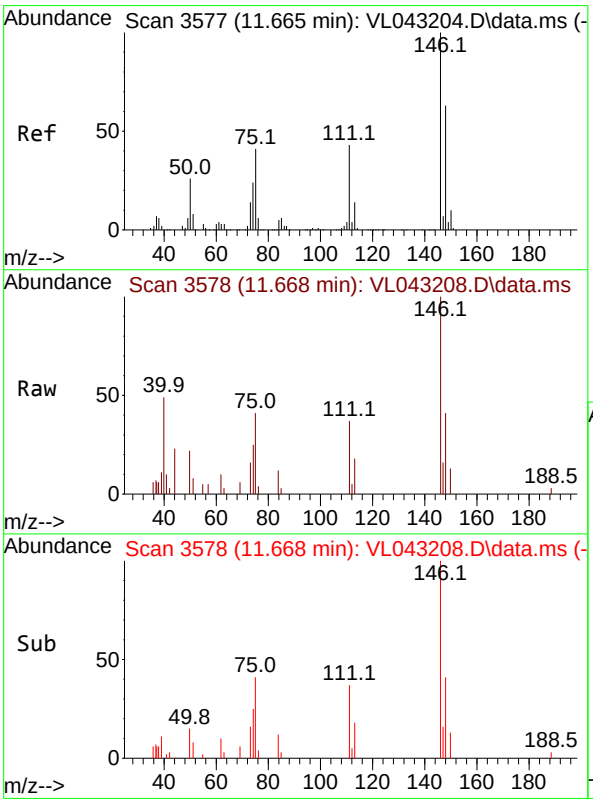
#75
1,3-Dichlorobenzene
Concen: 0.087 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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

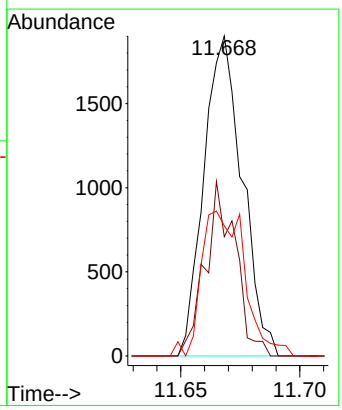


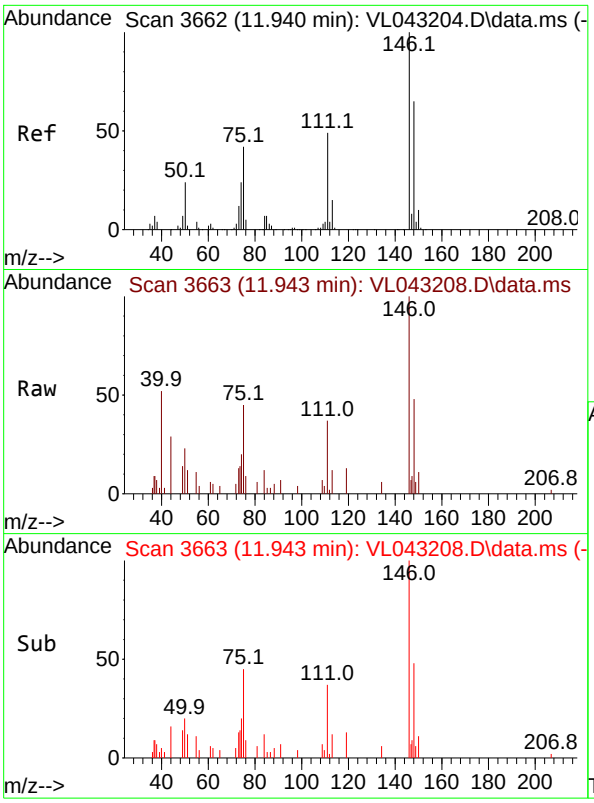


#76
1,4-Dichlorobenzene
Concen: 0.096 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



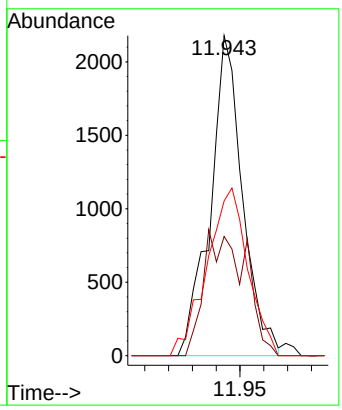


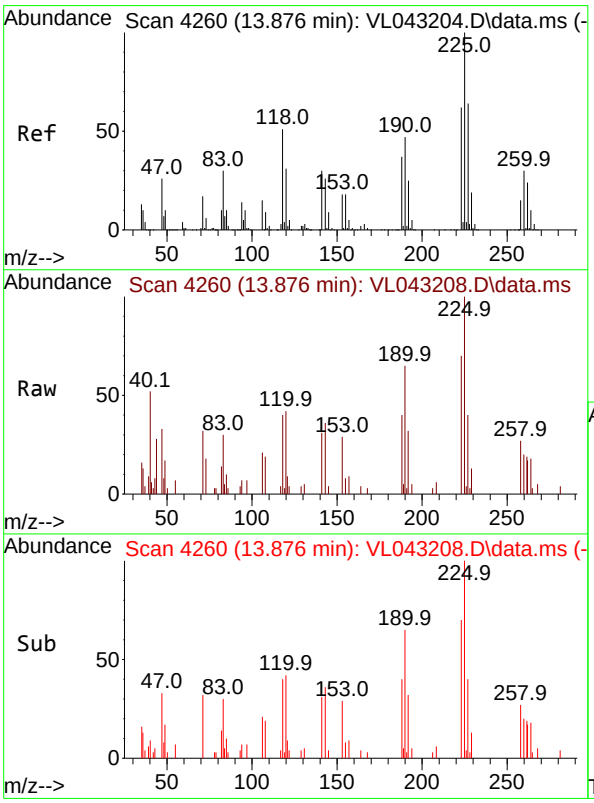
#77
1,2-Dichlorobenzene
Concen: 0.096 ppbv
RT: 11.943 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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

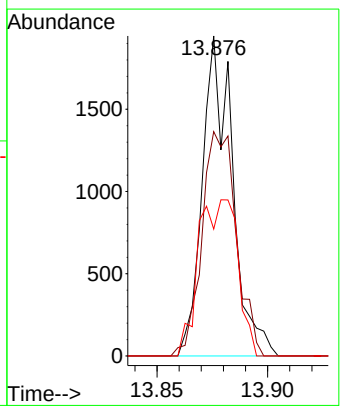


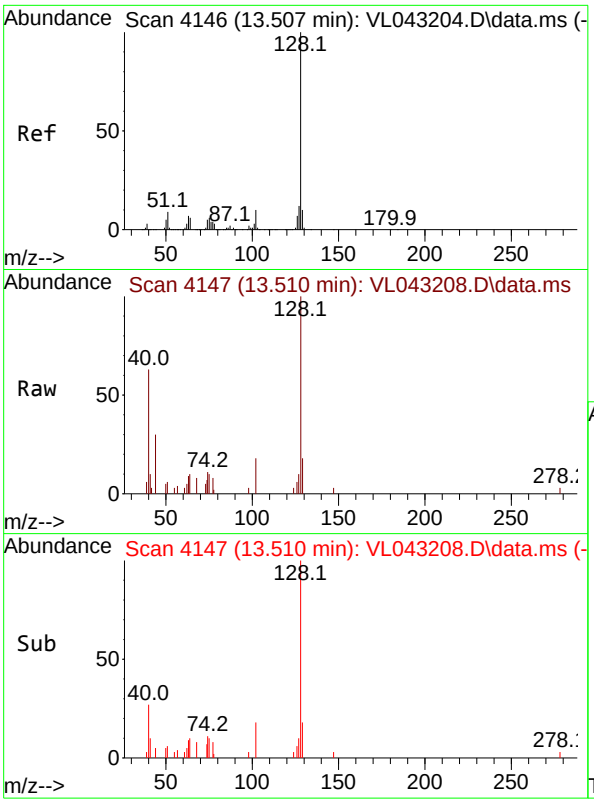


#78
Hexachloro-1,3-Butadiene
Concen: 0.103 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



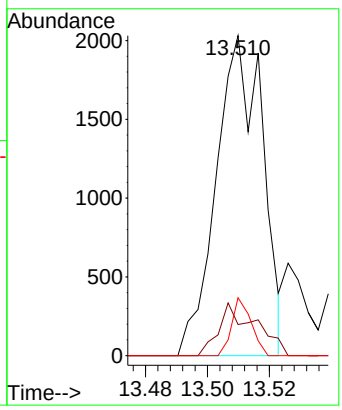


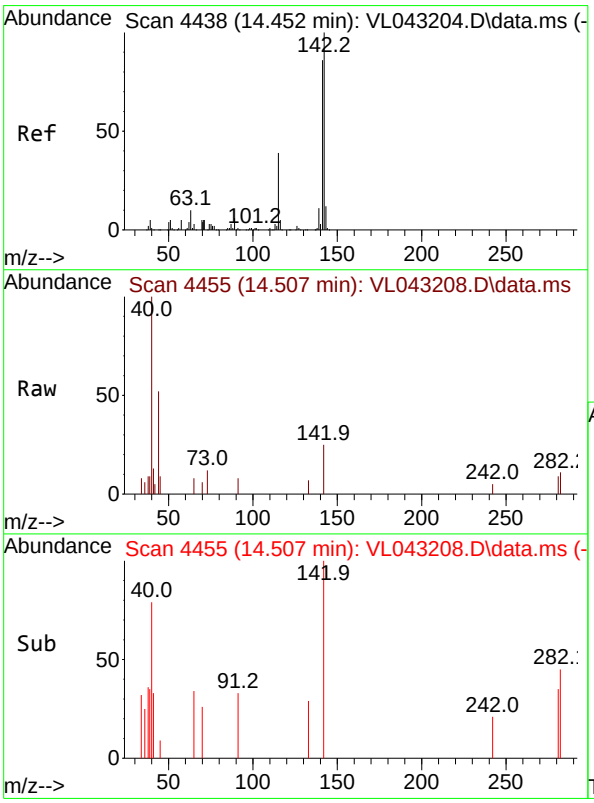
#79
Naphthalene
Concen: 0.062 ppbv
RT: 13.510 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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#

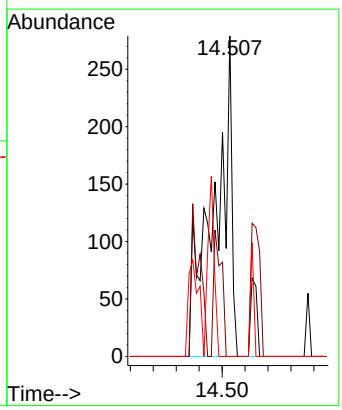


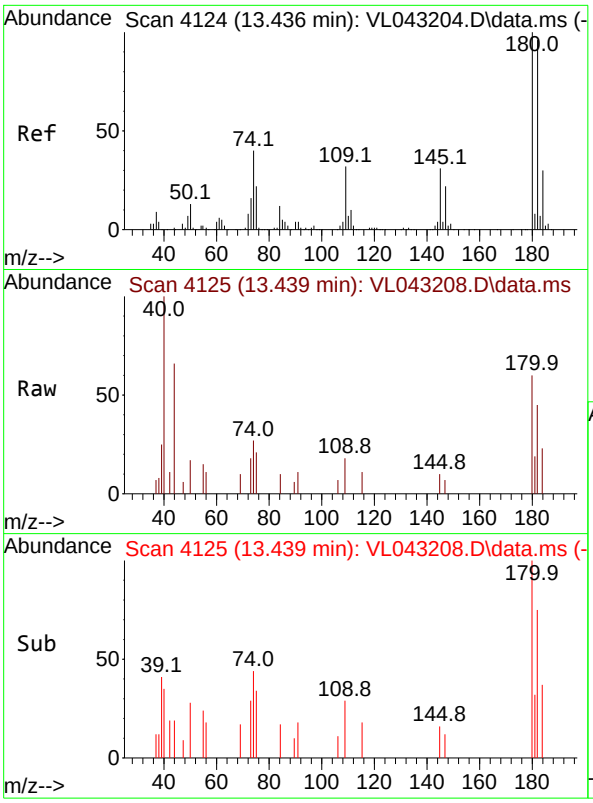


#80
Naphthalene,2-methyl-
Concen: 0.035 ppbv
RT: 14.507 min Scan# 4455
Delta R.T. 0.055 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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



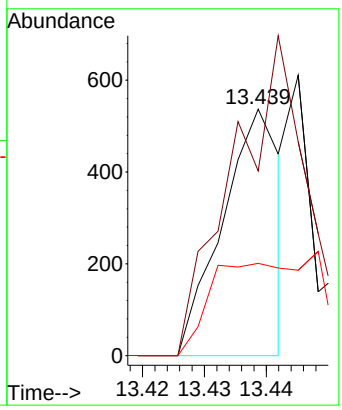


#81
1,2,4-Trichlorobenzene
Concen: 0.023 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

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

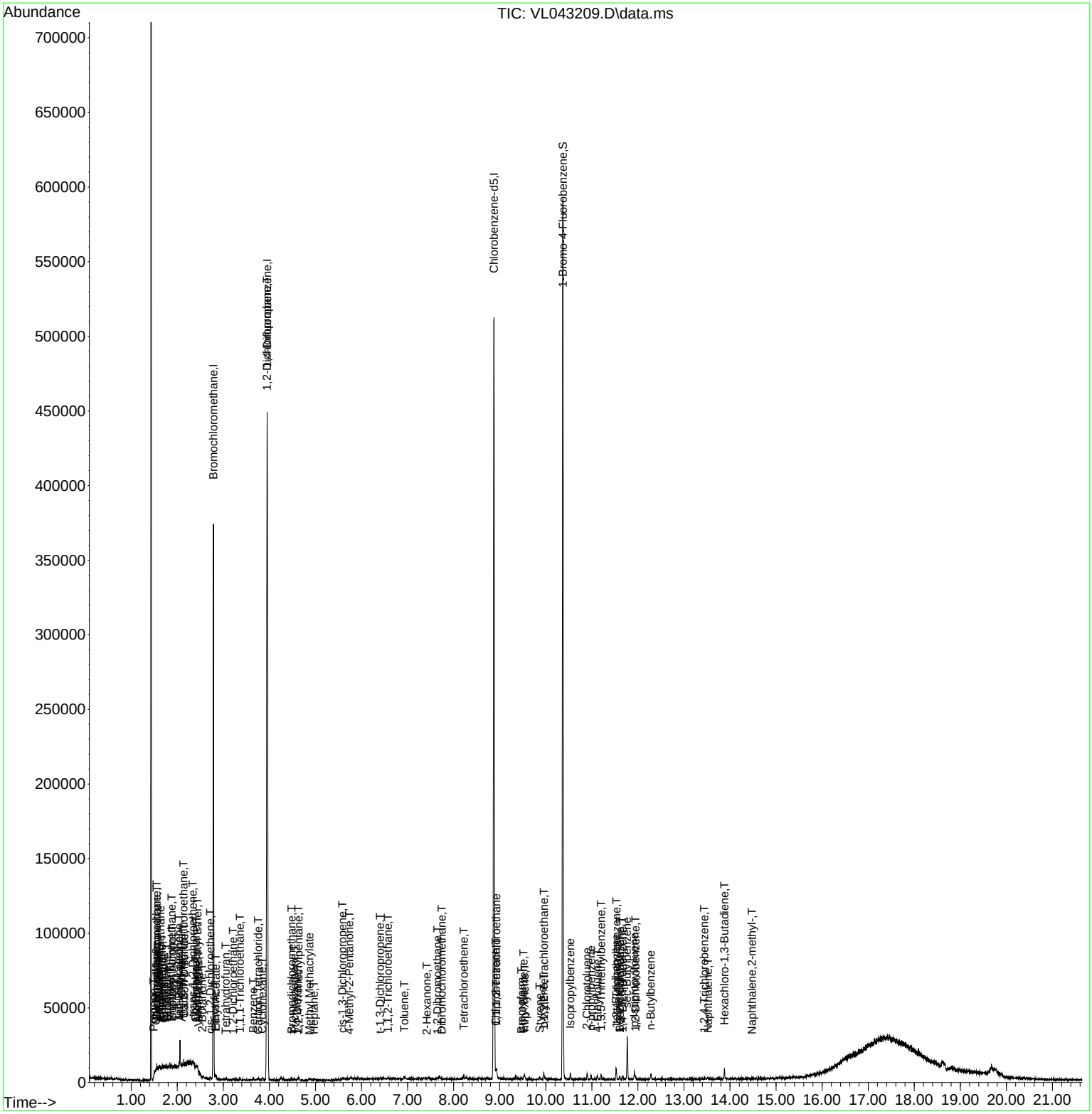
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	123	0.008	ppbv	#	37
47) 1,1,2-Trichloroethane	6.574	97	122	0.012	ppbv	#	51
48) Dibromochloromethane	7.743	129	34	0.002	ppbv		62
49) Bromoform	9.471	173	102	0.007	ppbv	#	1
50) 4-Methyl-2-Pentanone	5.736	43	140	0.005	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

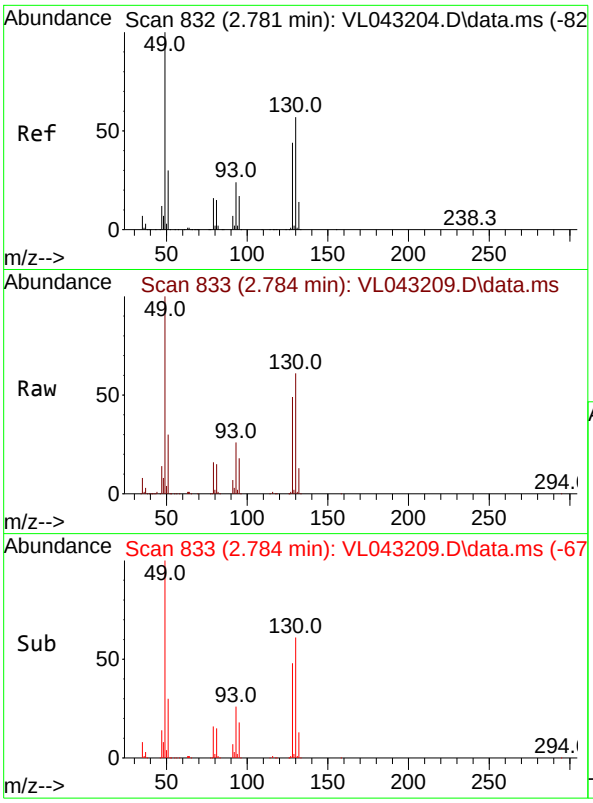
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



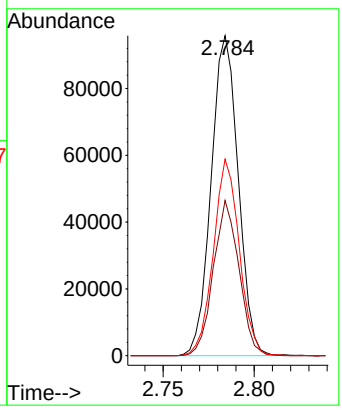


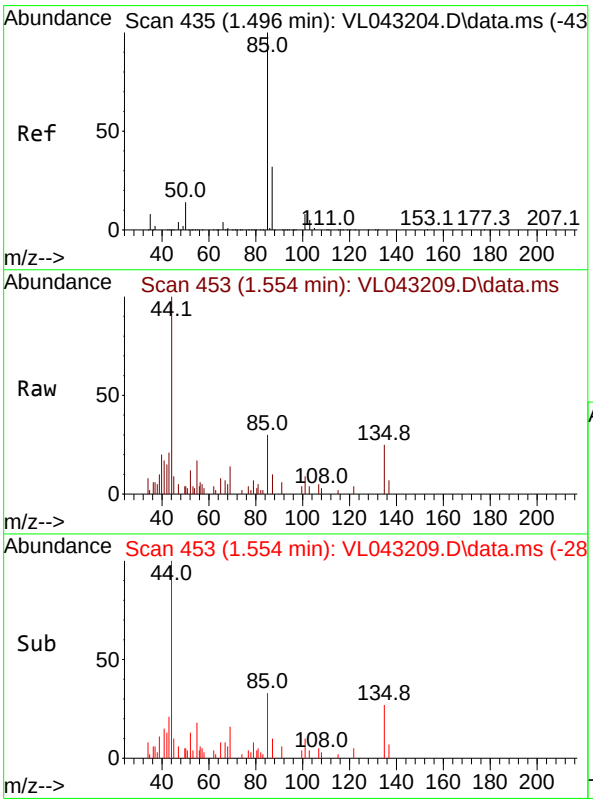
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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

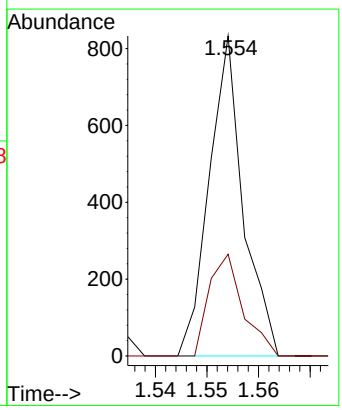


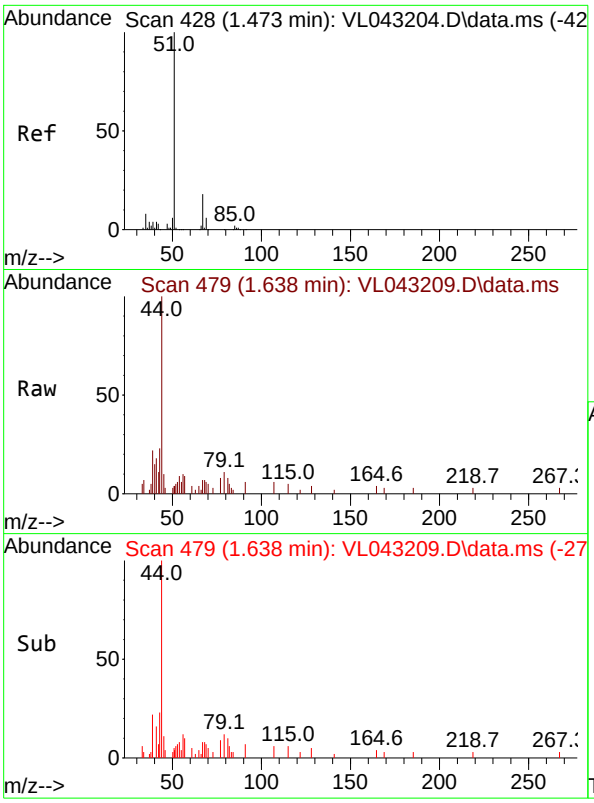


#2
Dichlorodifluoromethane
Concen: 0.027 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.058 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 85 Resp: 381

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.4	38.2



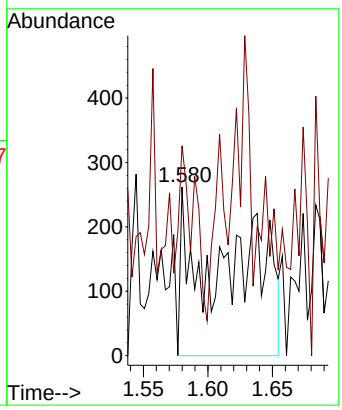


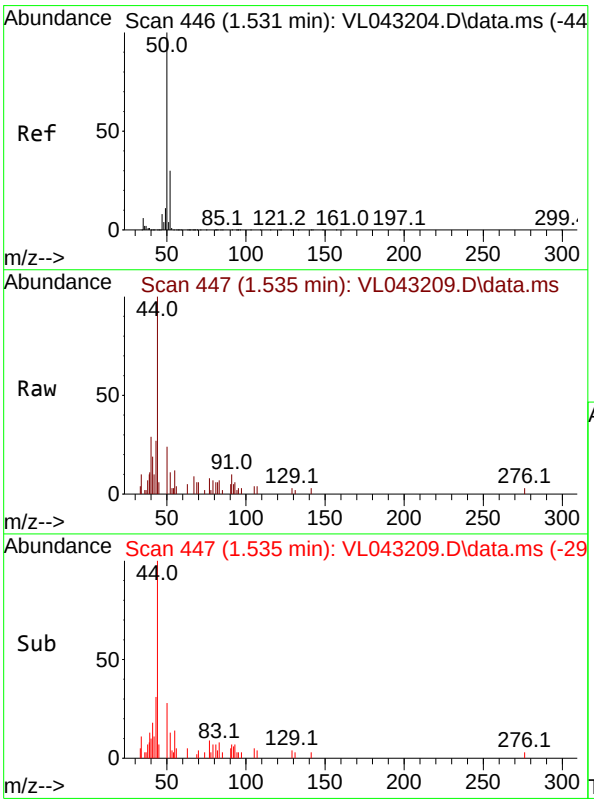
#3
Chlorodifluoromethane
Concen: 0.049 ppbv
RT: 1.638 min Scan# 4
Delta R.T. 0.165 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 51 Resp: 673

Ion	Ratio	Lower	Upper
51	100		
67	20.8	14.9	22.3

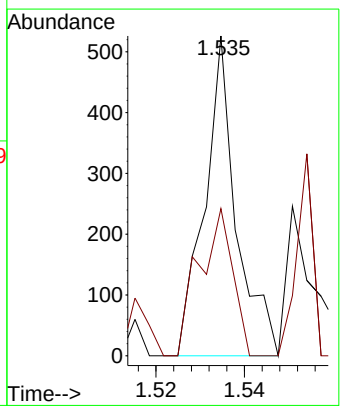


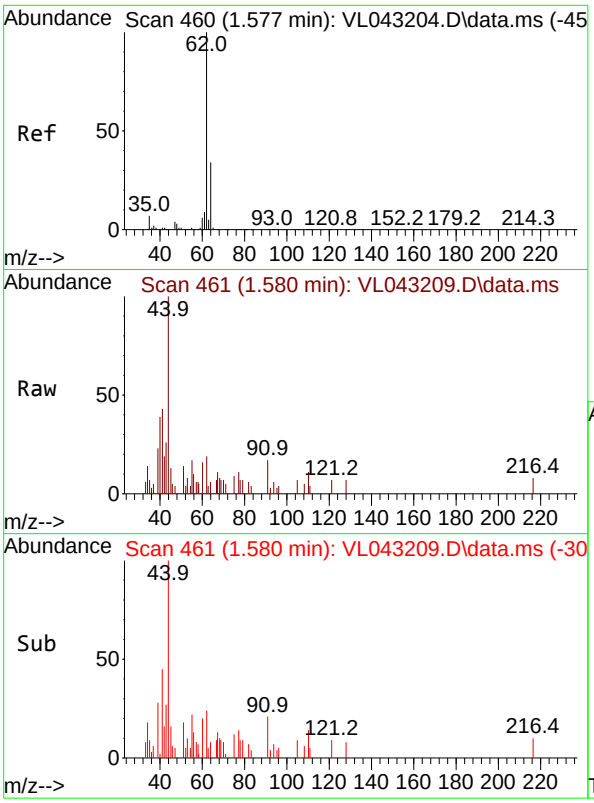


#4
Chloromethane
Concen: 0.050 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 50 Resp: 260

Ion	Ratio	Lower	Upper
50	100		
52	46.0	24.1	36.1#



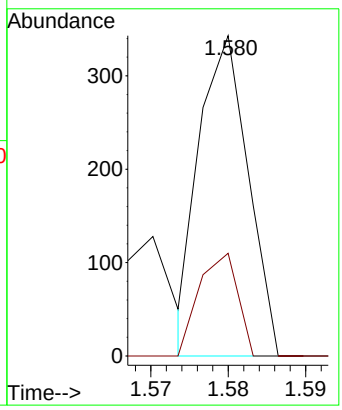


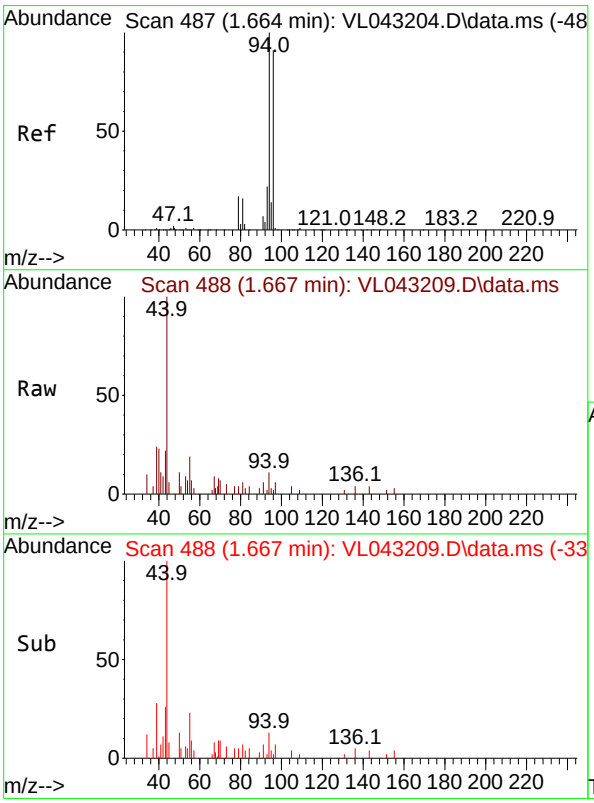
#5
Vinyl Chloride
Concen: 0.026 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 62 Resp: 150

Ion	Ratio	Lower	Upper
62	100		
64	26.3	27.3	40.9#

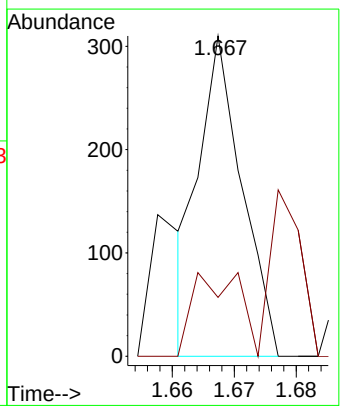


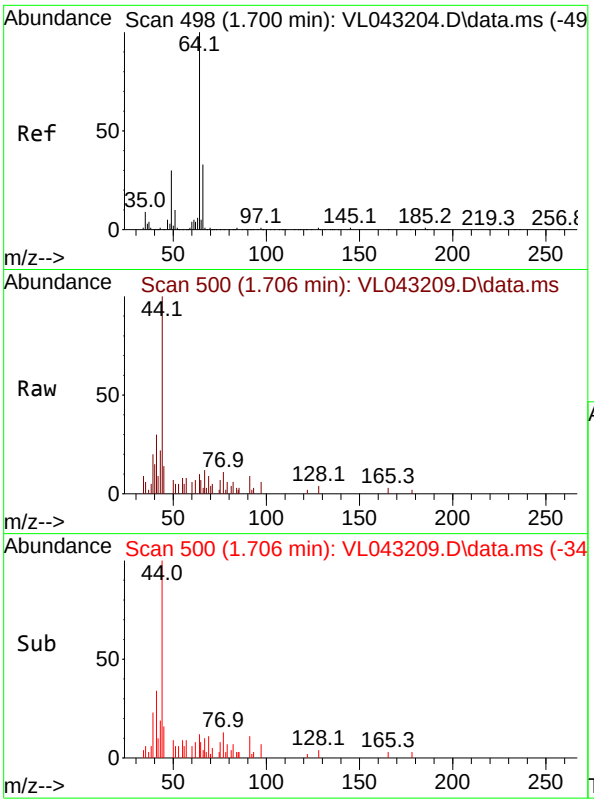


#6
Bromomethane
Concen: 0.054 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 94 Resp: 148

Ion	Ratio	Lower	Upper
94	100		
96	18.4	72.9	109.3#



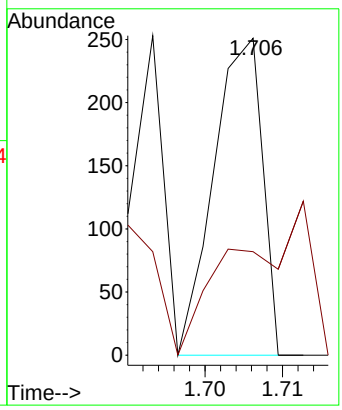


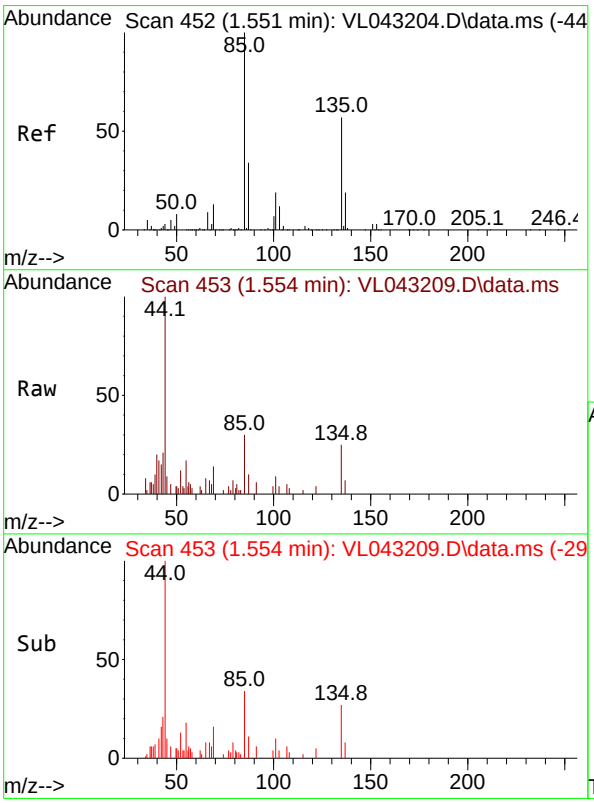
#7
Chloroethane
Concen: 0.049 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 64 Resp: 109

Ion	Ratio	Lower	Upper
64	100		
66	19.6	26.8	40.2#

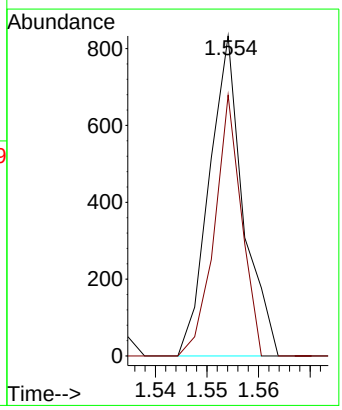


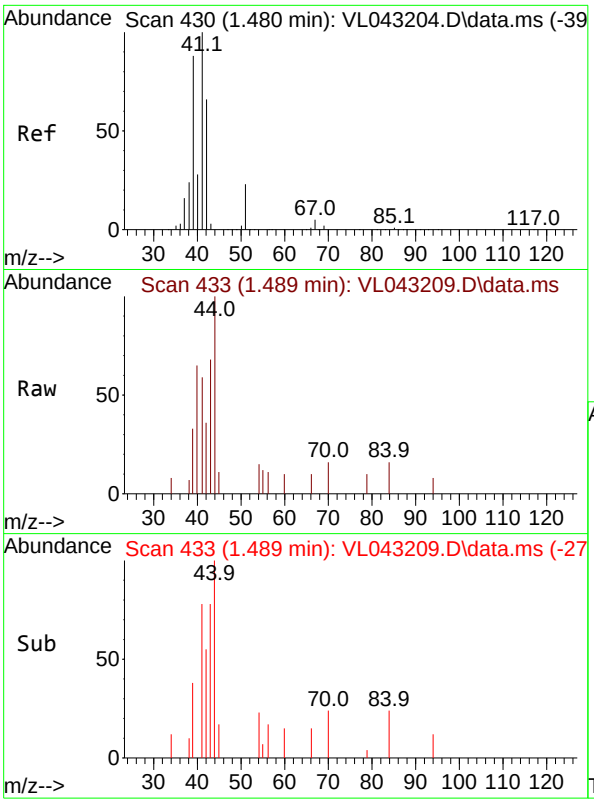


#8
Dichlorotetrafluoroethane
Concen: 0.033 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 85 Resp: 381

Ion	Ratio	Lower	Upper
85	100		
135	64.8	52.6	79.0



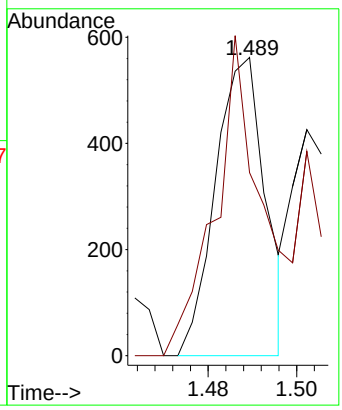


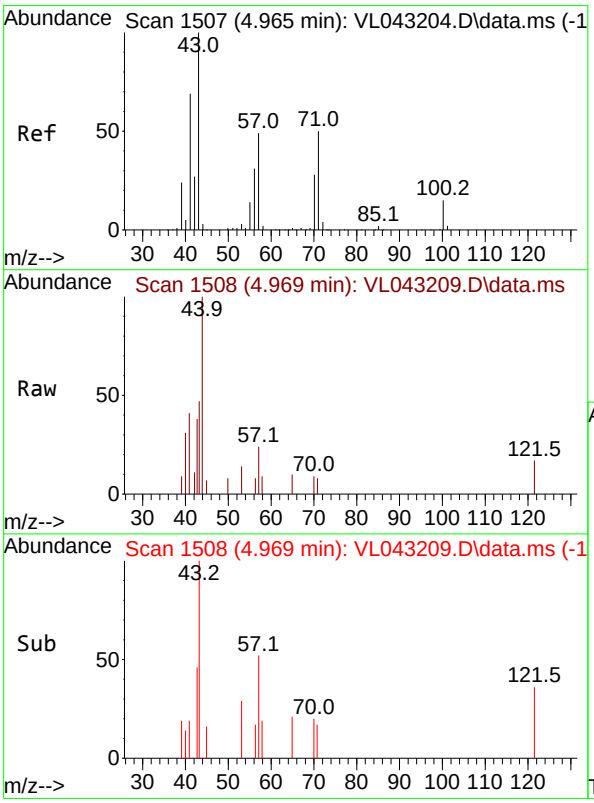
#9
Propene
Concen: 0.069 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 41 Resp: 440

Ion	Ratio	Lower	Upper
41	100		
42	147.5	3.7	5.5#

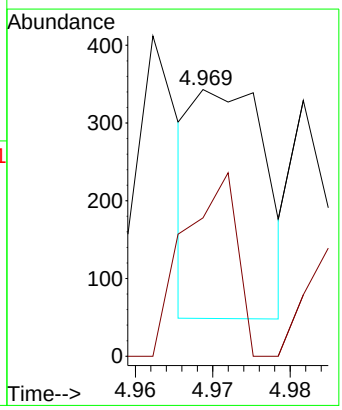


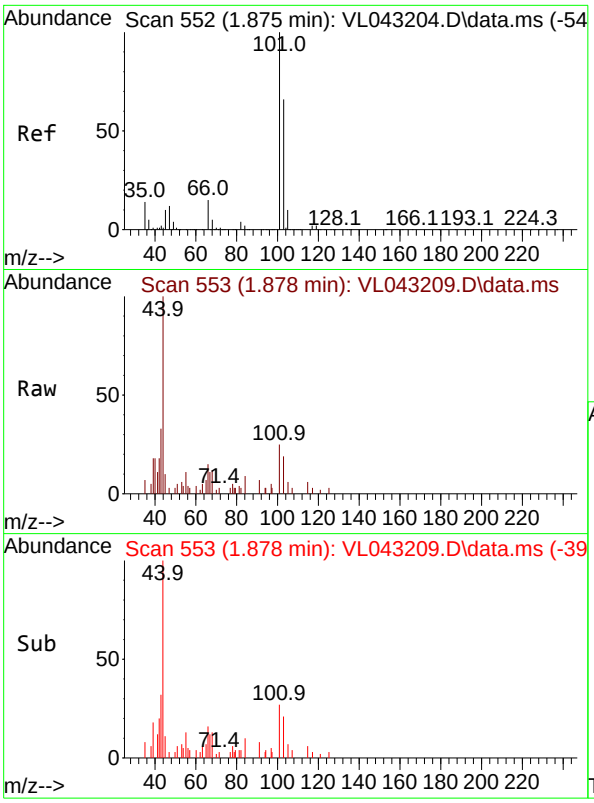


#10
Heptane
Concen: 0.011 ppbv
RT: 4.969 min Scan# 1508
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 43 Resp: 193

Ion	Ratio	Lower	Upper
43	100		
57	146.1	39.7	59.5#



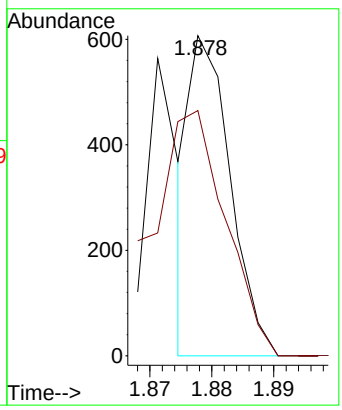


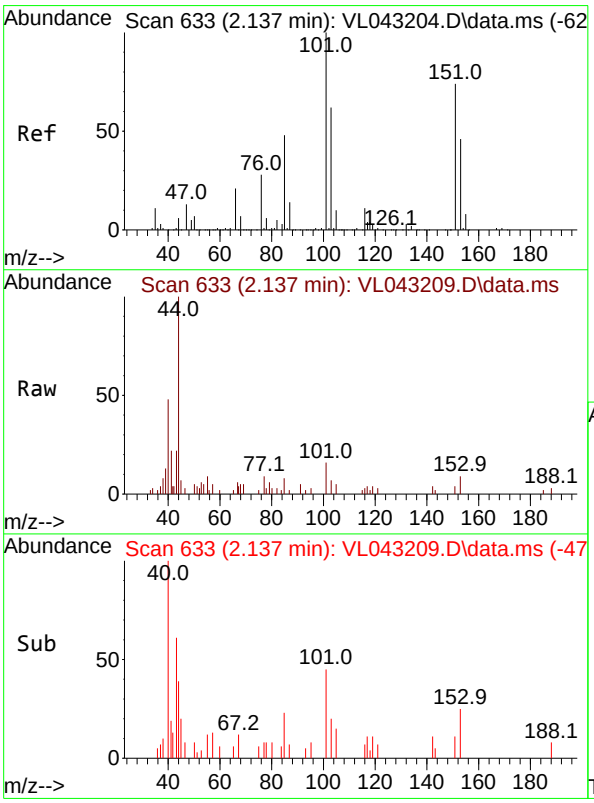
#11
Trichlorofluoromethane
Concen: 0.020 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:101 Resp: 277

Ion	Ratio	Lower	Upper
101	100		
103	76.6	52.6	79.0

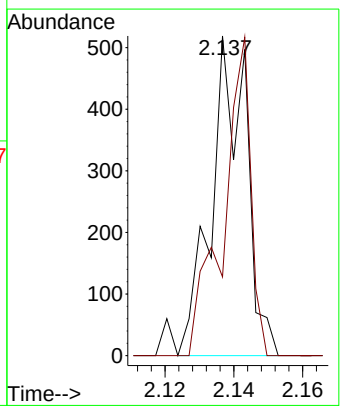


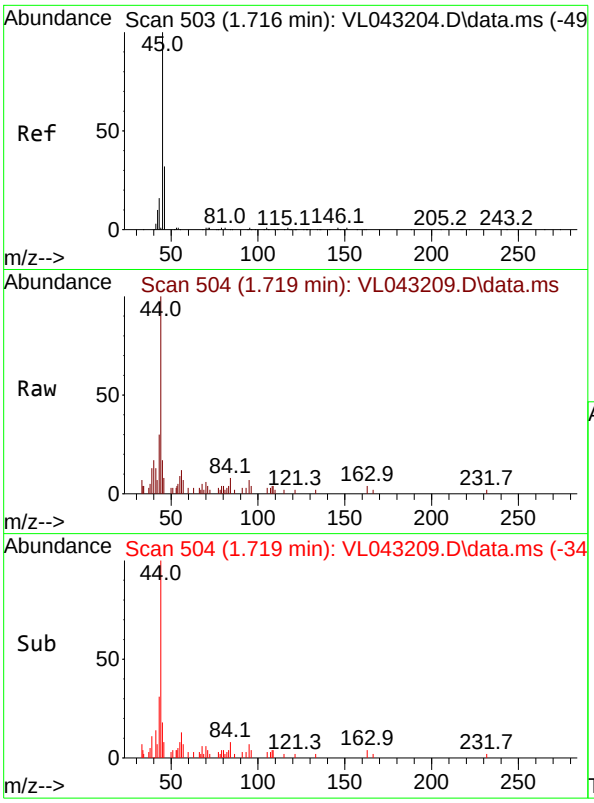


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.035 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:101 Resp: 368

Ion	Ratio	Lower	Upper
101	100		
151	77.4	59.2	88.8



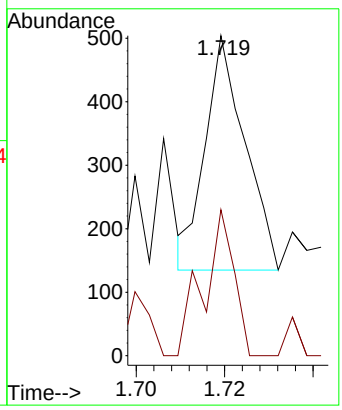


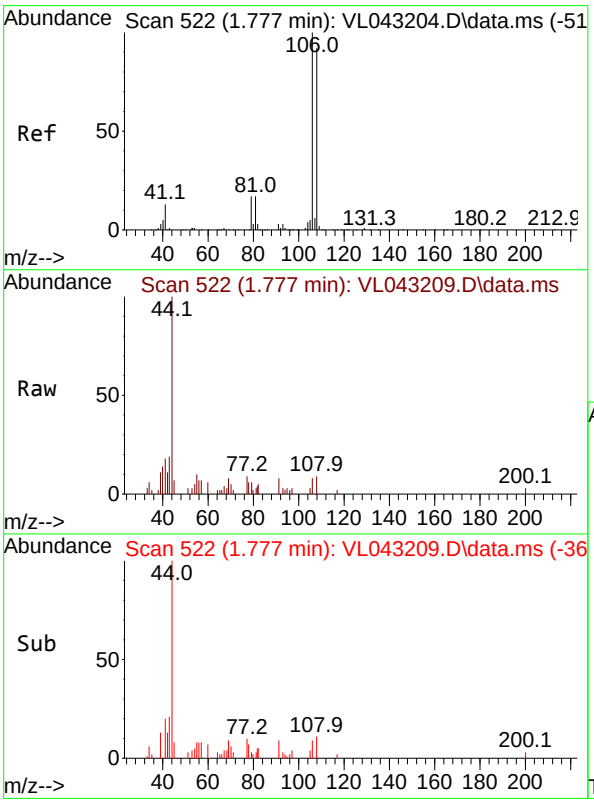
#13
Ethanol
Concen: 0.112 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 229

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.0	59.8#

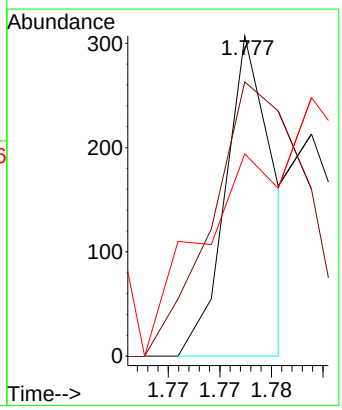


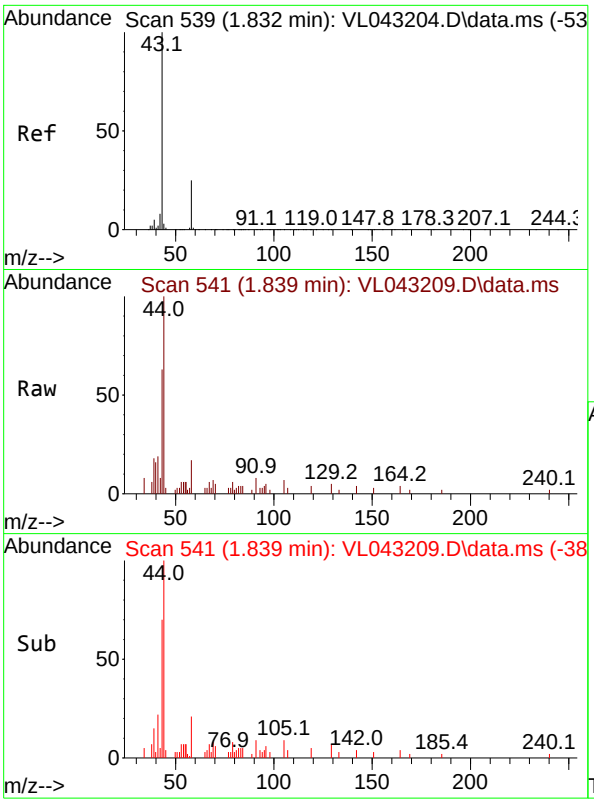


#14
Bromoethene
Concen: 0.025 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



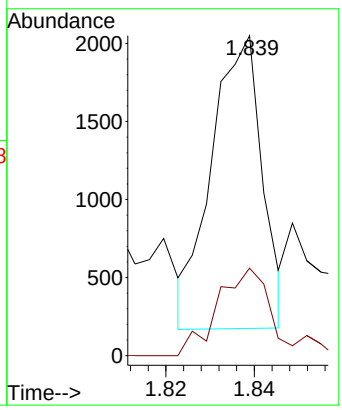


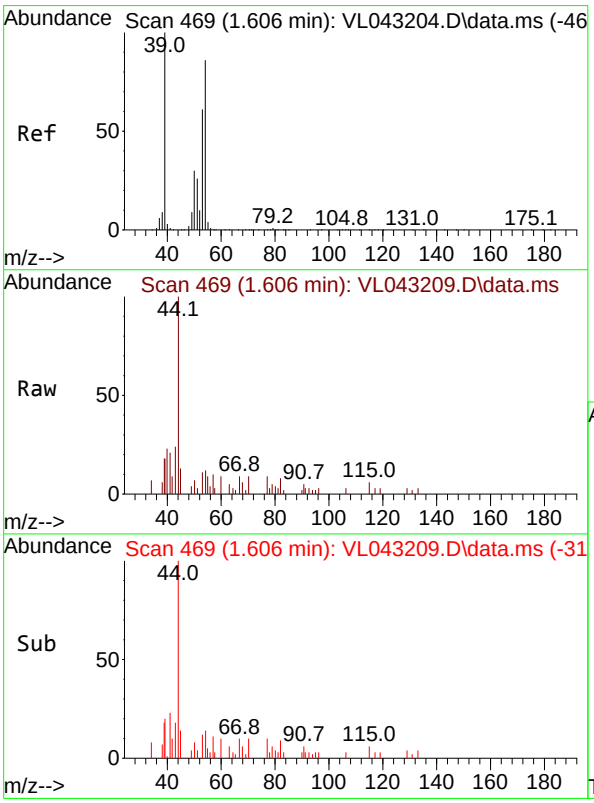
#15
Acetone
Concen: 0.108 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 1490

Ion	Ratio	Lower	Upper
43	100		
58	32.8	20.7	31.1#

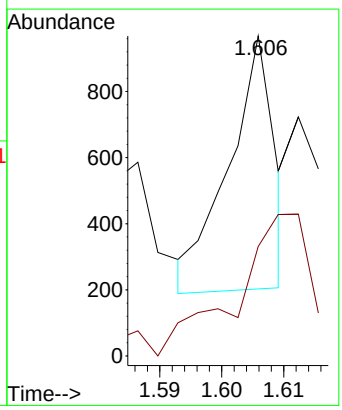


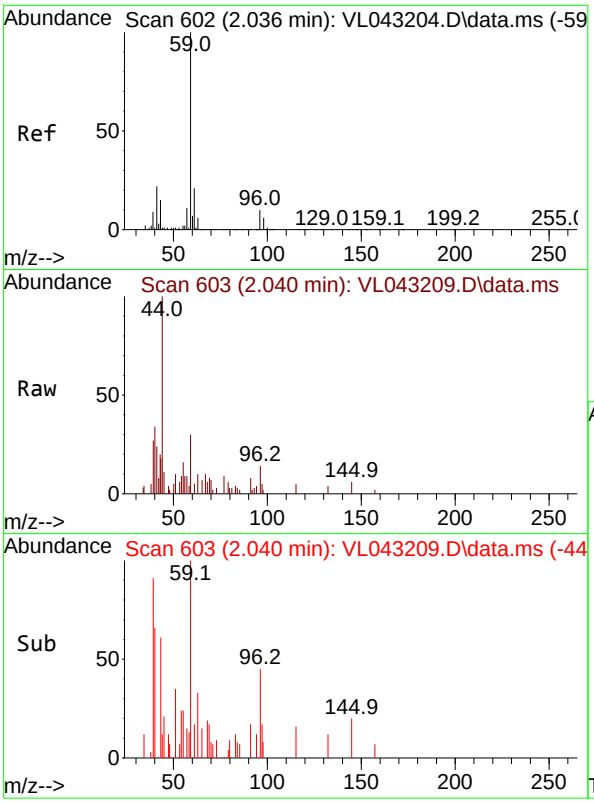


#16
1,3-Butadiene
Concen: 0.064 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 39 Resp: 392

Ion	Ratio	Lower	Upper
39	100		
54	0.0	59.4	89.2#



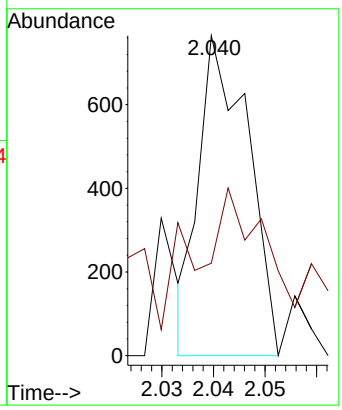


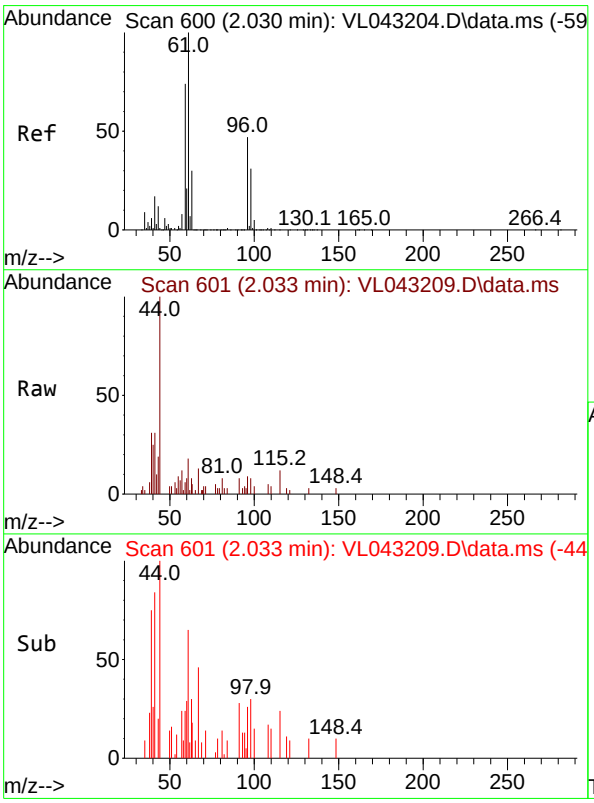
#17
tert-Butyl alcohol
Concen: 0.028 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 59 Resp: 506

Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.0	13.4#

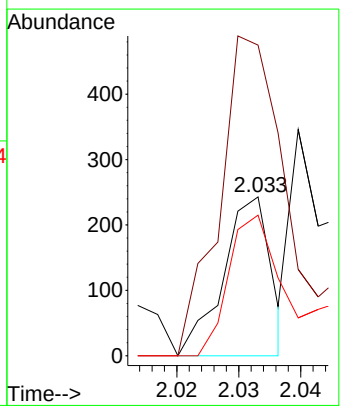


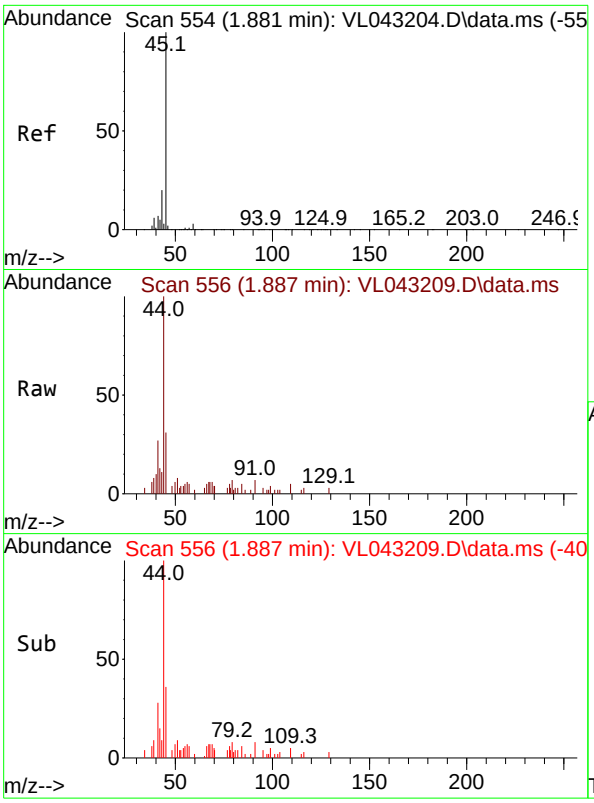


#18
1,1-Dichloroethene
Concen: 0.026 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



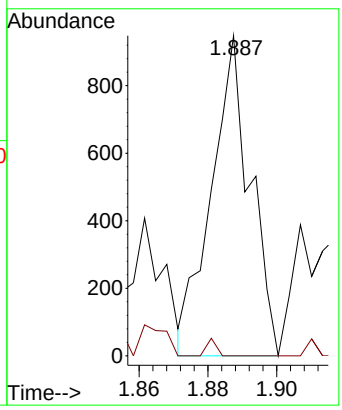


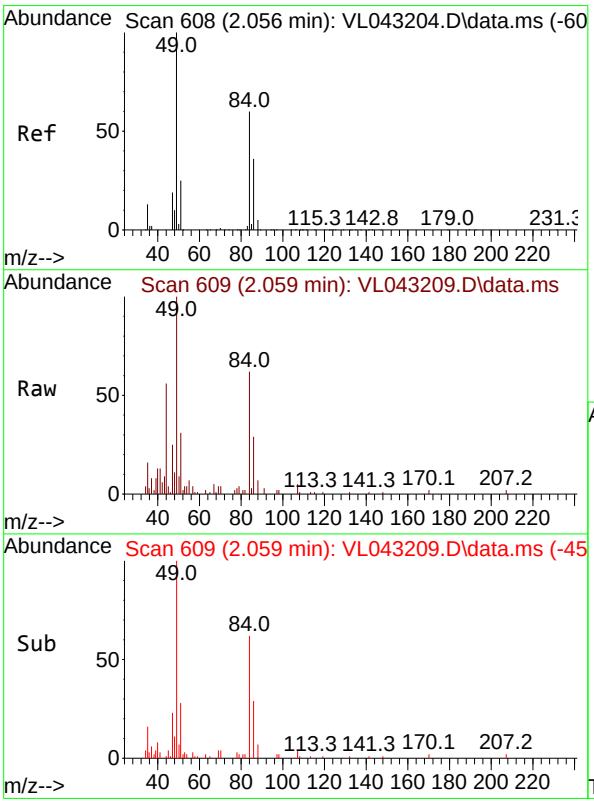
#19
Isopropyl Alcohol
Concen: 0.096 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 746

Ion	Ratio	Lower	Upper
45	100		
58	7.6	31.3	46.9#

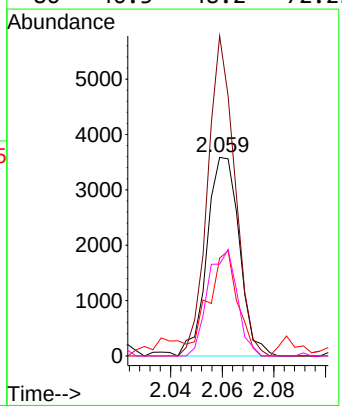


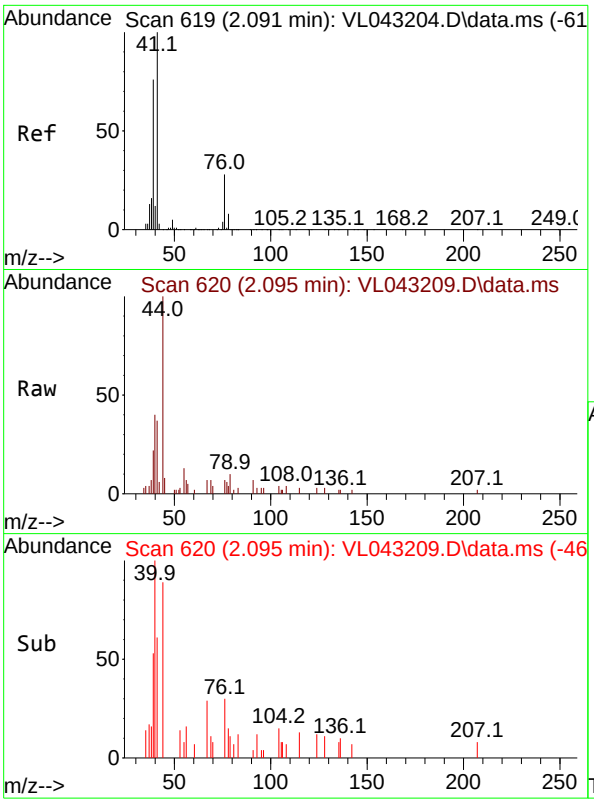


#20
Methylene Chloride
Concen: Below Cal
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



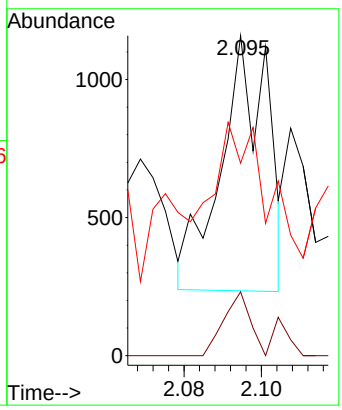


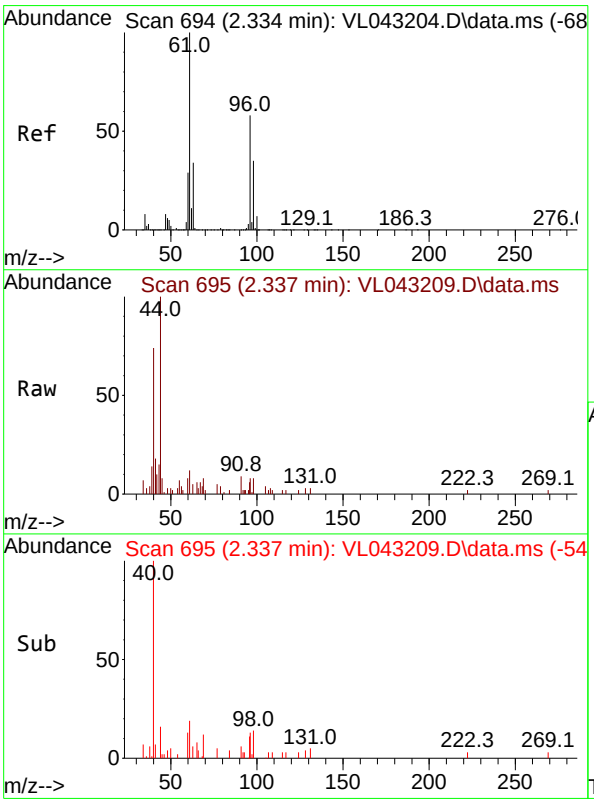
#21
Allyl Chloride
Concen: 0.084 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

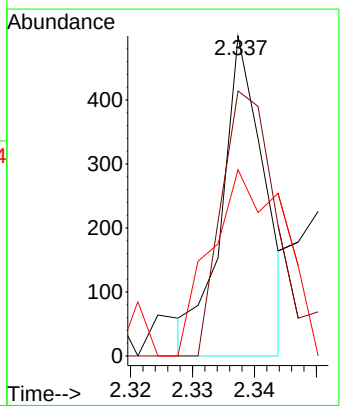


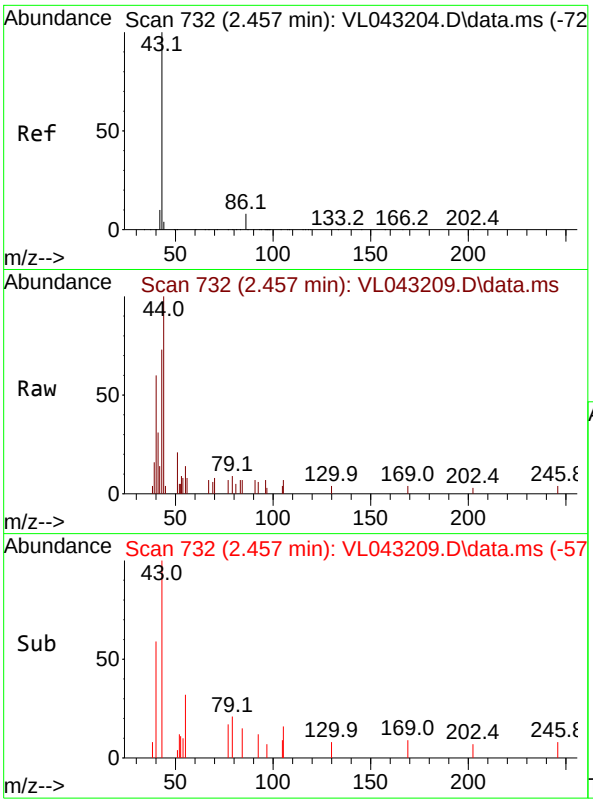


#22
trans-1,2-Dichloroethene
Concen: 0.043 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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



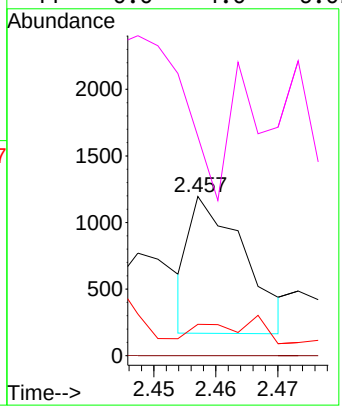


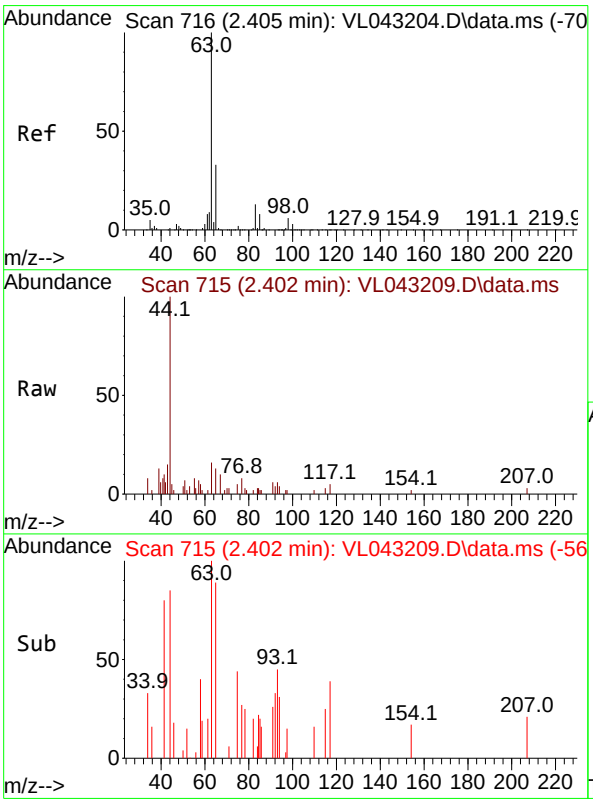
#23
Vinyl Acetate
Concen: 0.038 ppbv
RT: 2.457 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

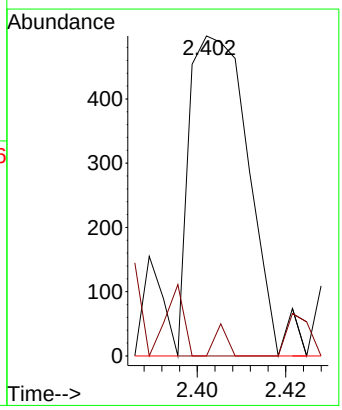


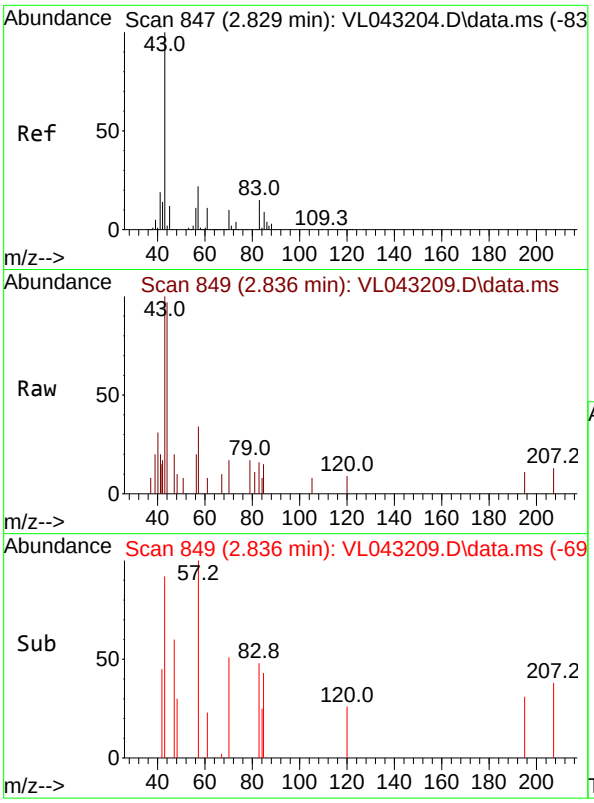


#24
1,1-Dichloroethane
Concen: 0.042 ppbv
RT: 2.402 min Scan# 715
Delta R.T. -0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



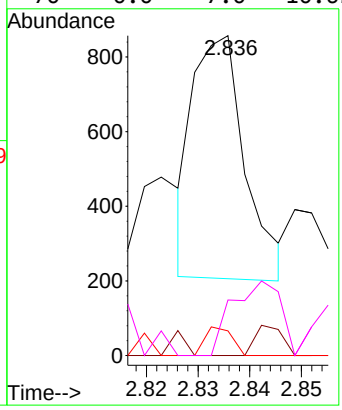


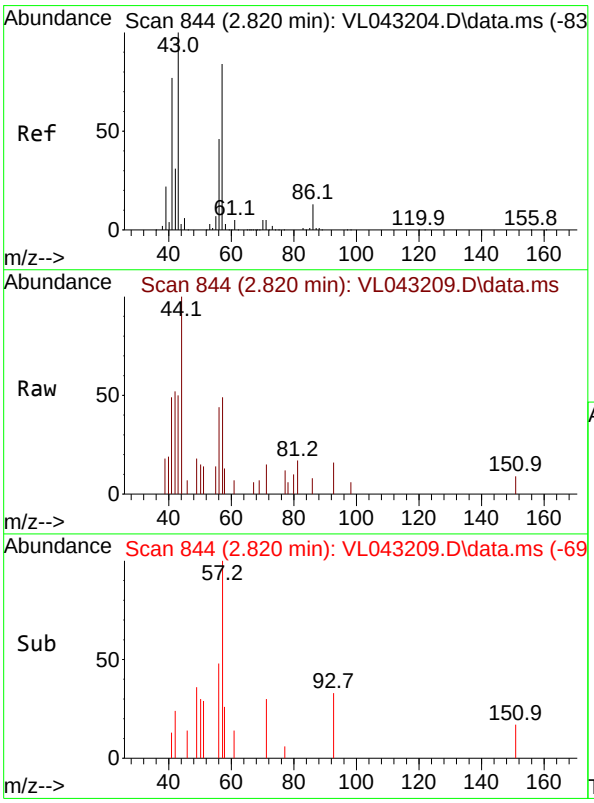
#25
Ethyl Acetate
Concen: 0.015 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

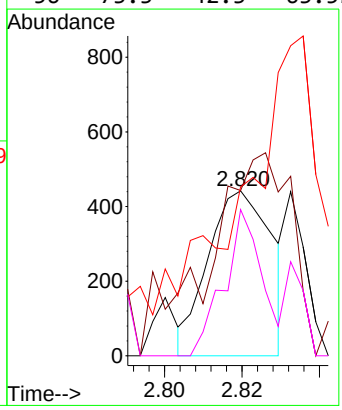


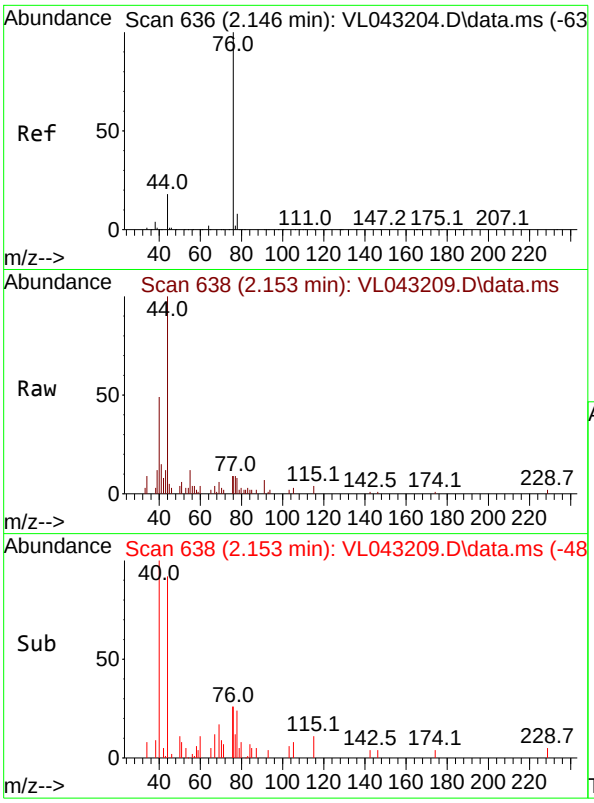


#26
Hexane
Concen: 0.038 ppbv
RT: 2.820 min Scan# 844
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



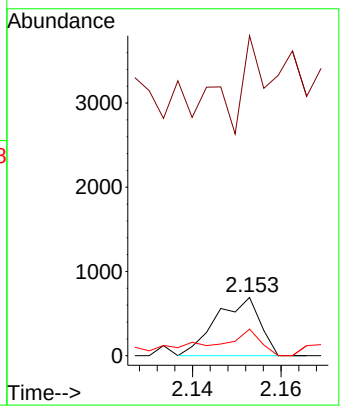


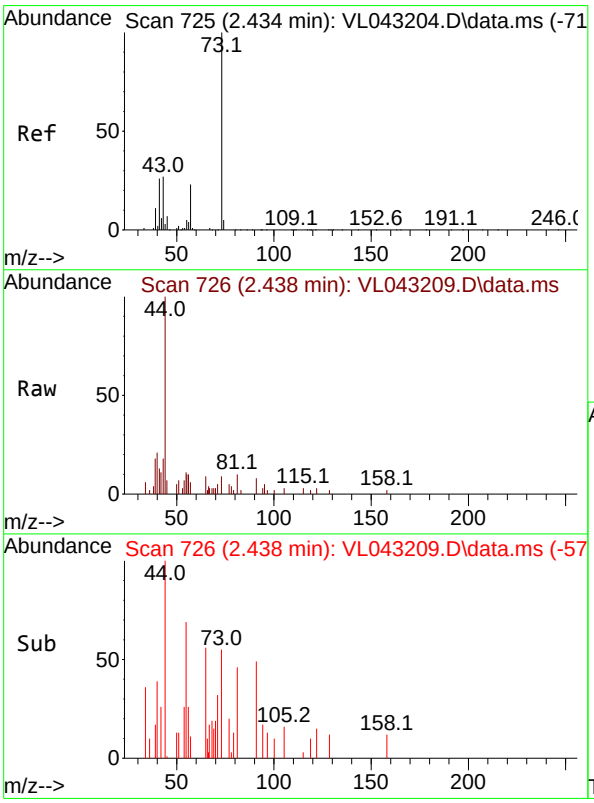
#27
Carbon Disulfide
Concen: 0.036 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

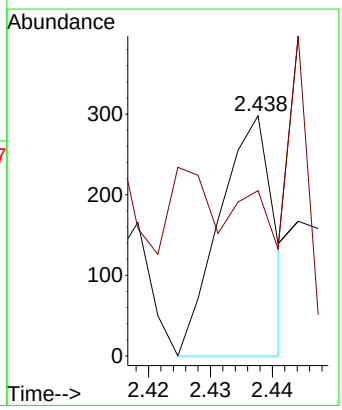


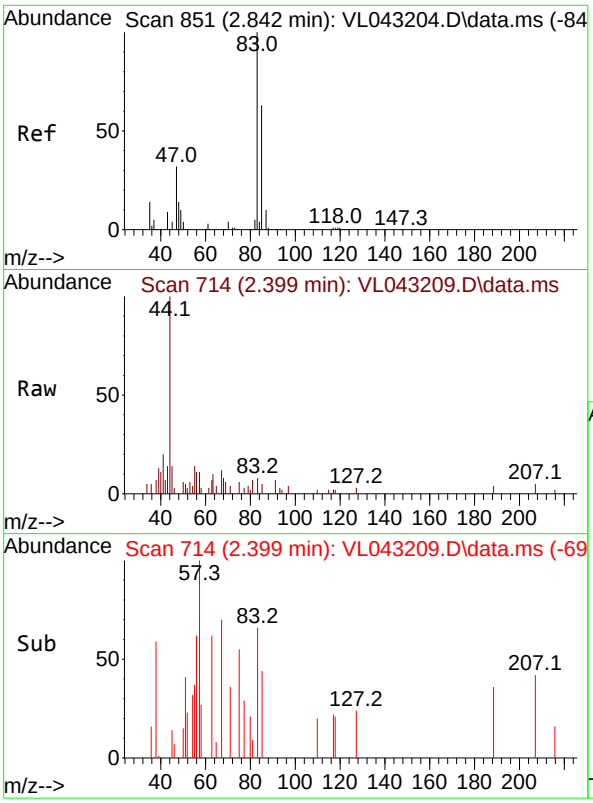


#28
Methyl tert-Butyl Ether
Concen: 0.028 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 73 Resp: 181

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.8	29.8#



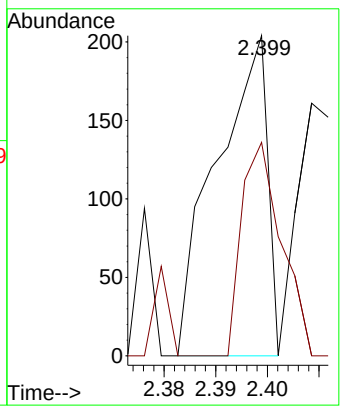


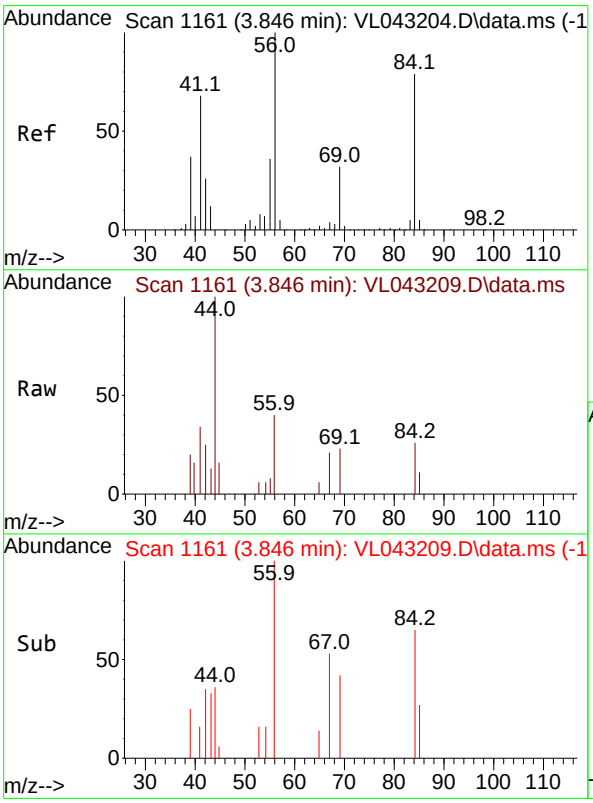
#29
Chloroform
Concen: 0.008 ppbv
RT: 2.399 min Scan# 7
Delta R.T. -0.443 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 83 Resp: 140

Ion	Ratio	Lower	Upper
83	100		
85	66.7	50.5	75.7

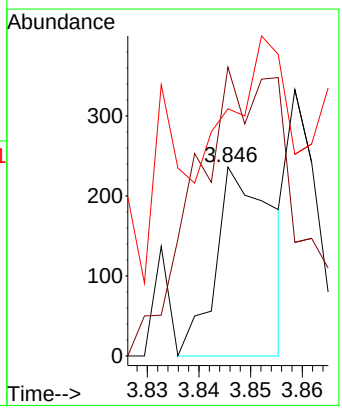


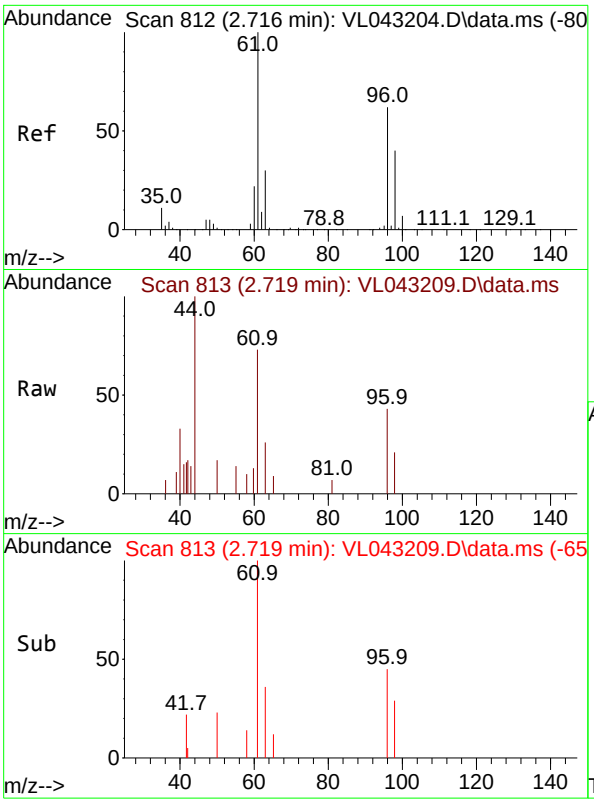


#30
Cyclohexane
Concen: 0.016 ppbv
RT: 3.846 min Scan# 1161
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



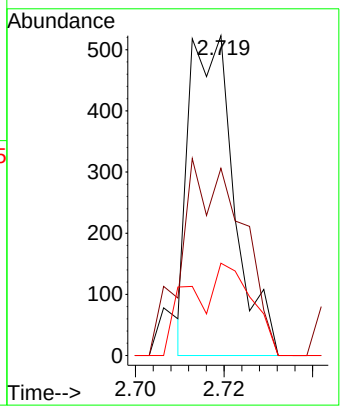


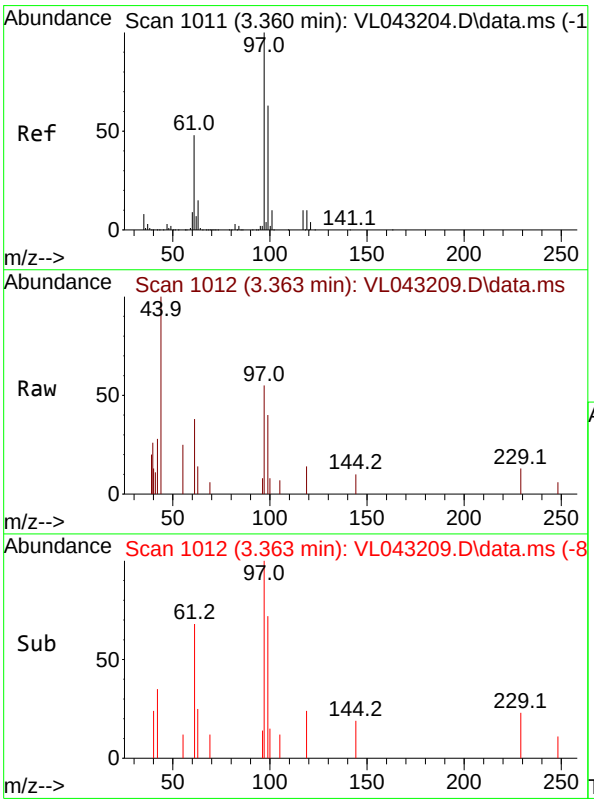
#31
cis-1,2-Dichloroethene
Concen: 0.029 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

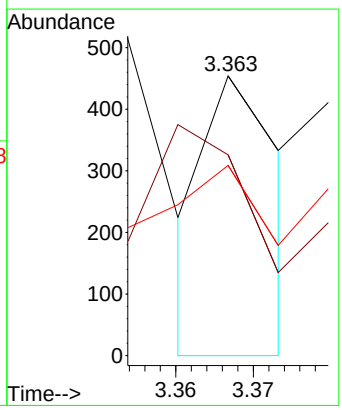


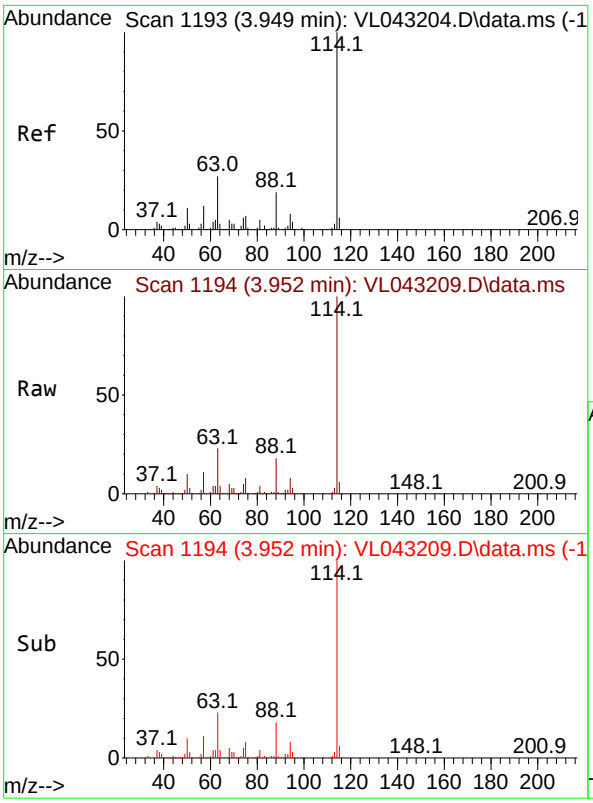


#32
1,1,1-Trichloroethane
Concen: 0.008 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



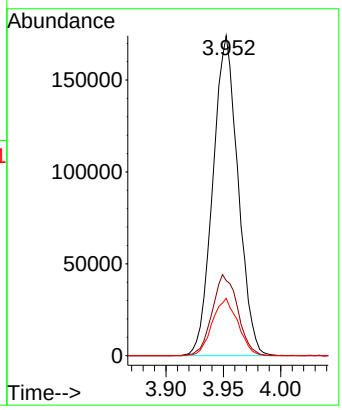


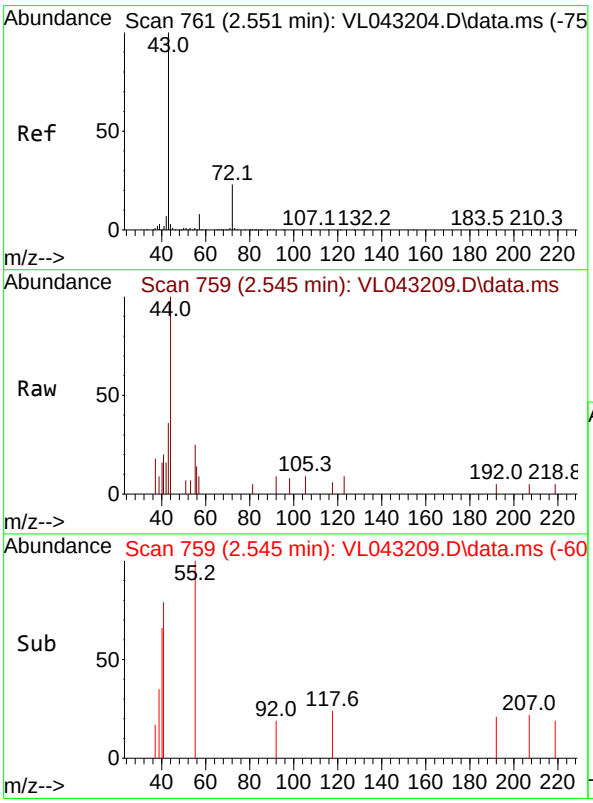
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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

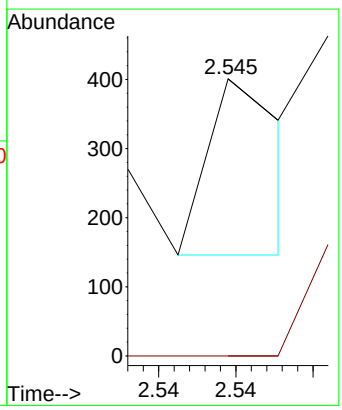


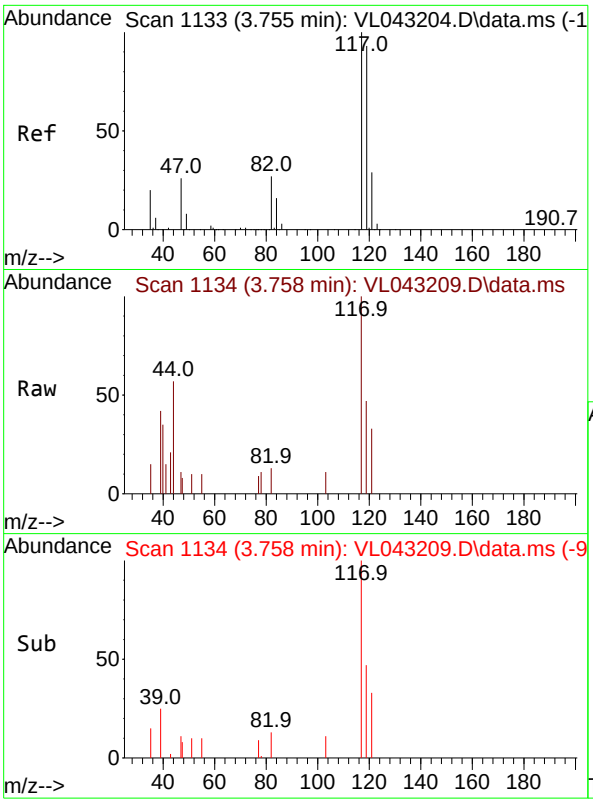


#34
2-Butanone
Concen: 0.005 ppbv
RT: 2.545 min Scan# 759
Delta R.T. -0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 43 Resp: 88

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.1	27.1#



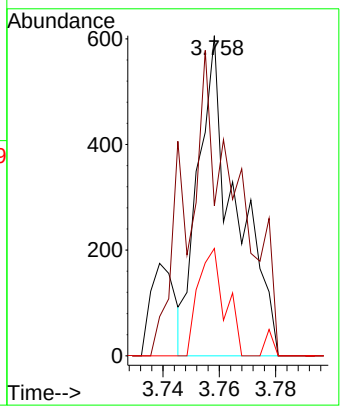


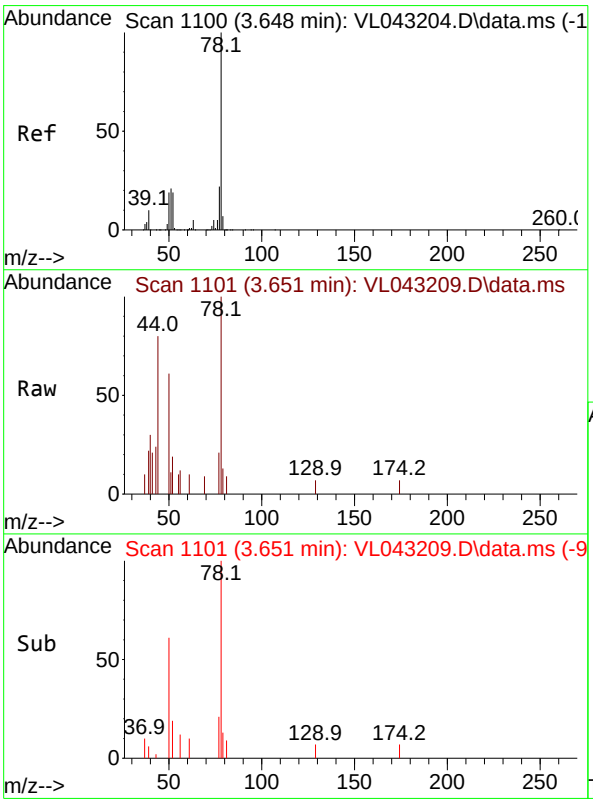
#35
Carbon Tetrachloride
Concen: 0.028 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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

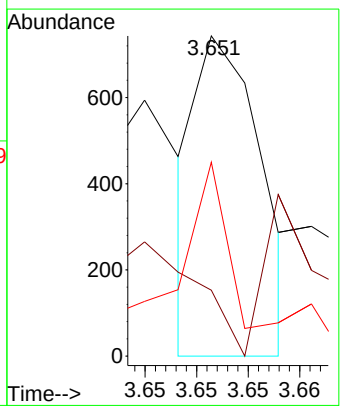


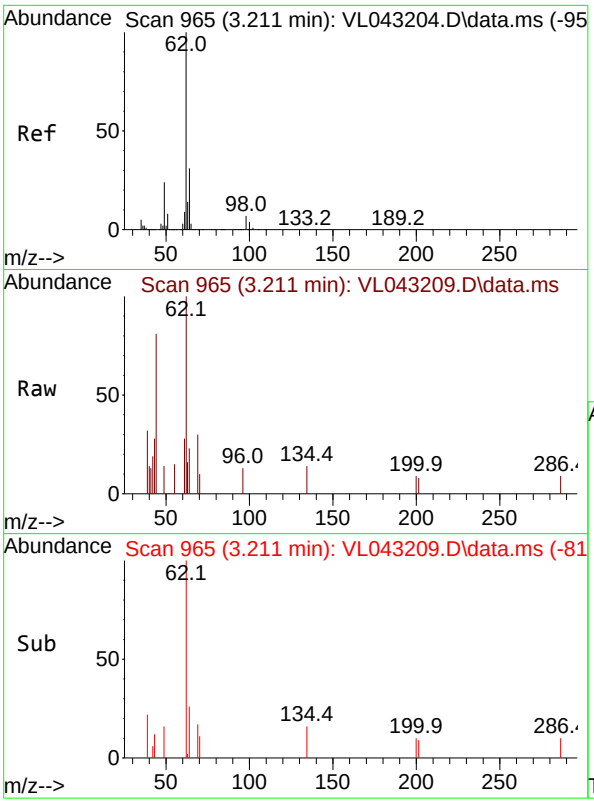


#36
Benzene
Concen: 0.013 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



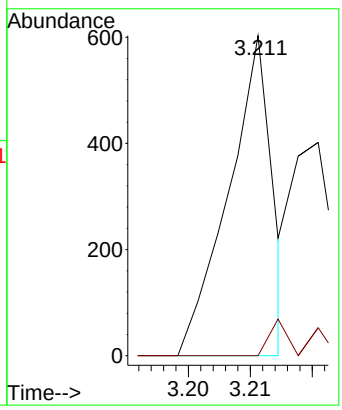


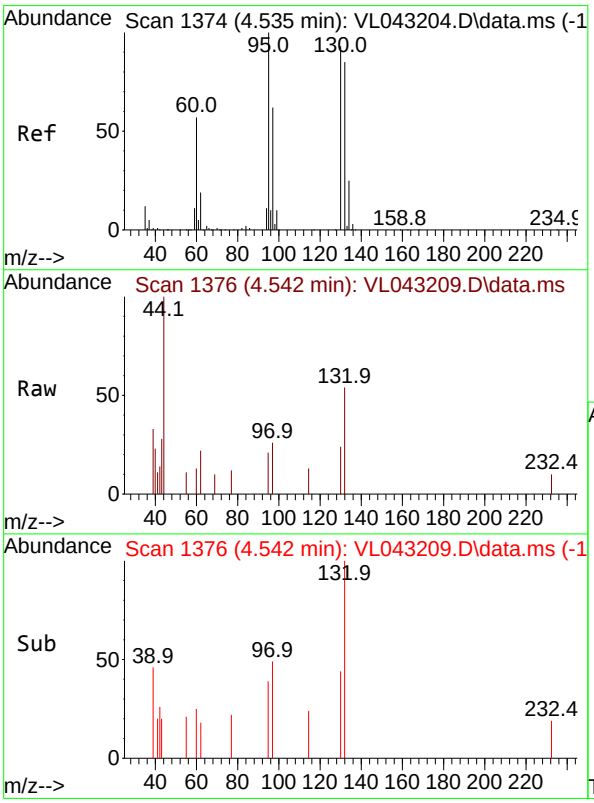
#37
1,2-Dichloroethane
Concen: 0.020 ppbv
RT: 3.211 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 62 Resp: 298

Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.5	8.3#

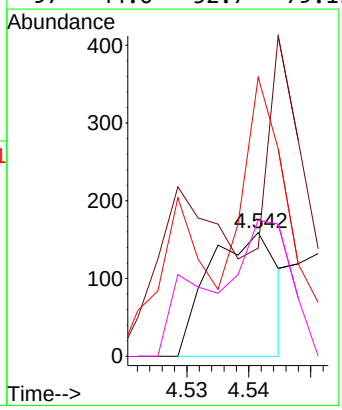


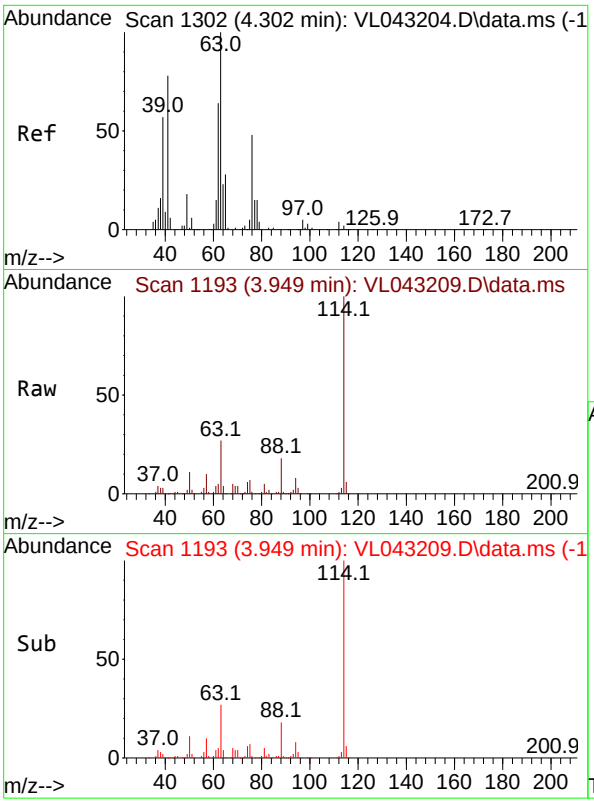


#38
Trichloroethene
Concen: 0.012 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



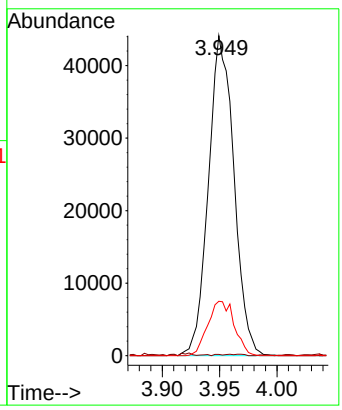


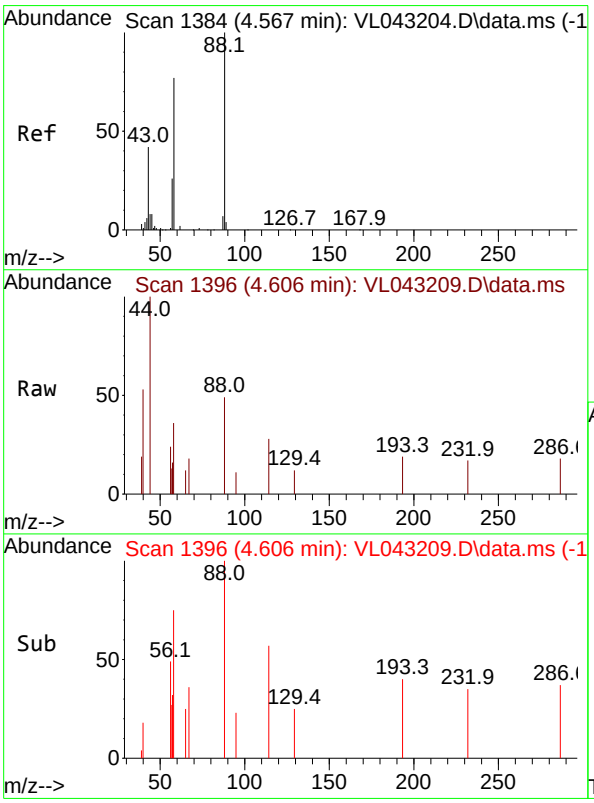
#39
1,2-Dichloropropane
Concen: 7.318 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.353 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

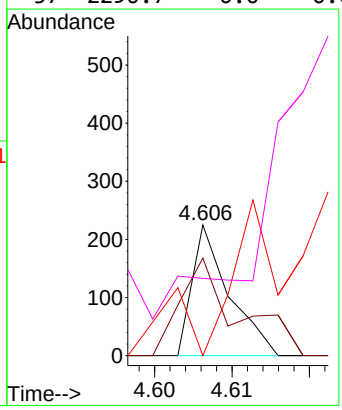


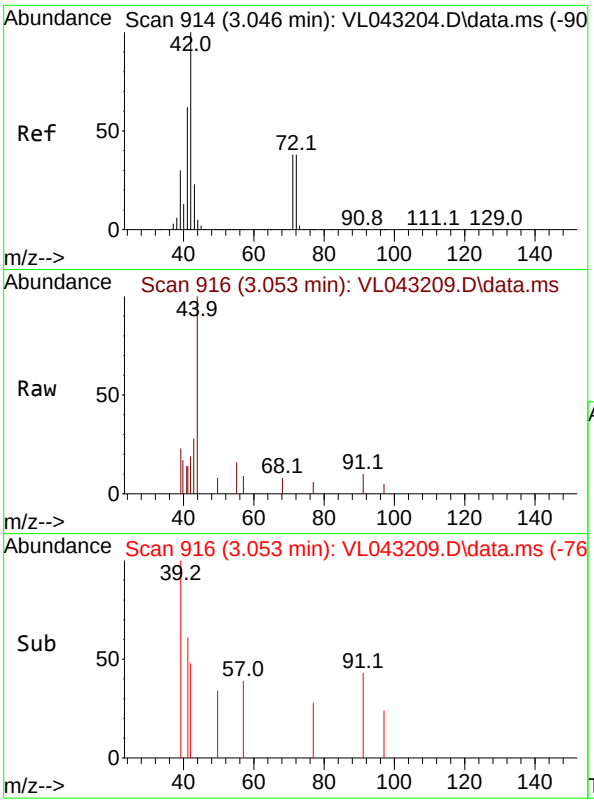


#40
1,4-Dioxane
Concen: 0.018 ppbv
RT: 4.606 min Scan# 1396
Delta R.T. 0.039 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



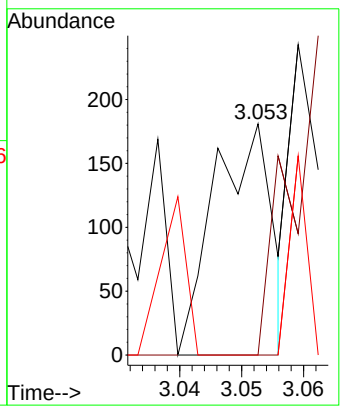


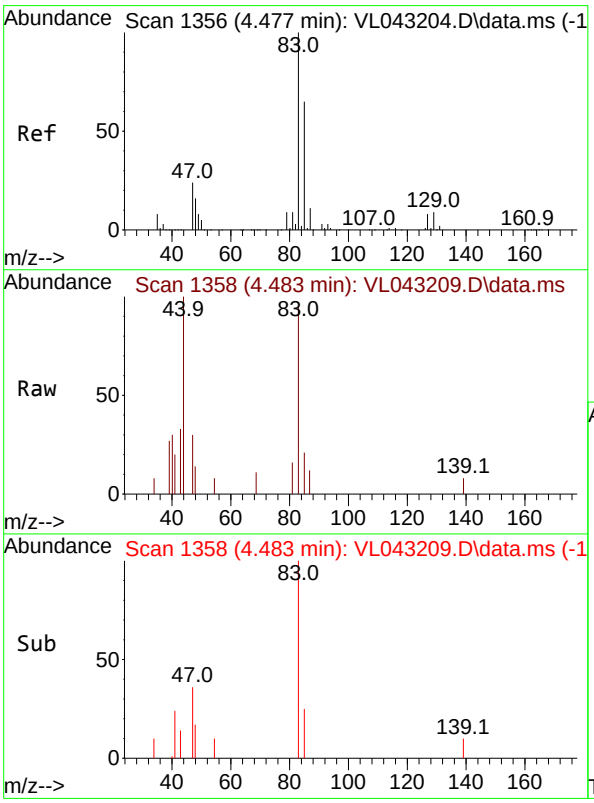
#41
Tetrahydrofuran
Concen: 0.011 ppbv
RT: 3.053 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

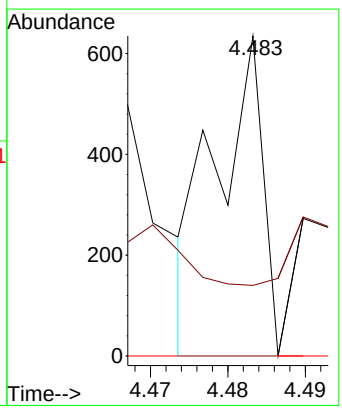


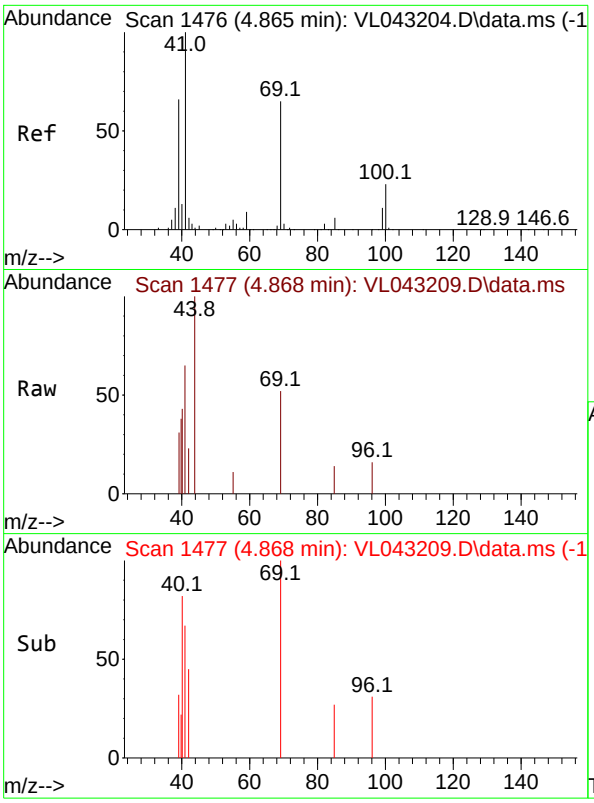


#42
Bromodichloromethane
Concen: 0.013 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



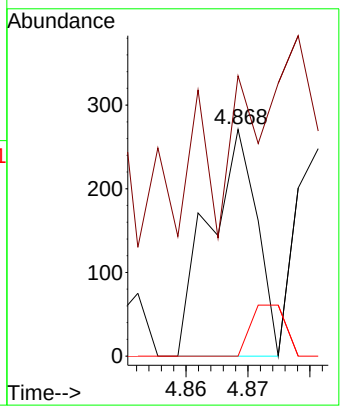


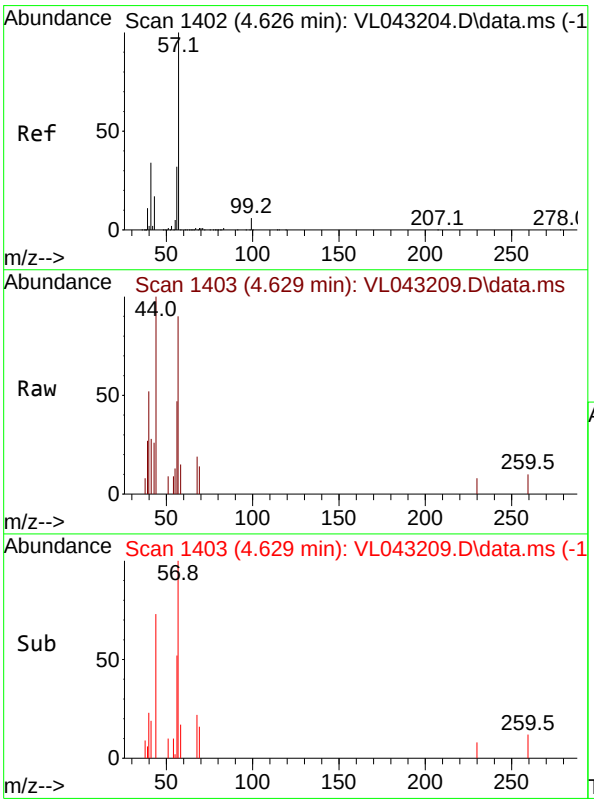
#43
Methyl Methacrylate
Concen: 0.011 ppbv
RT: 4.868 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

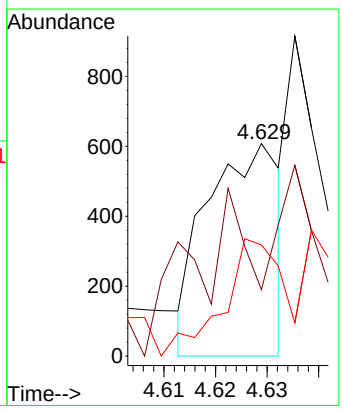


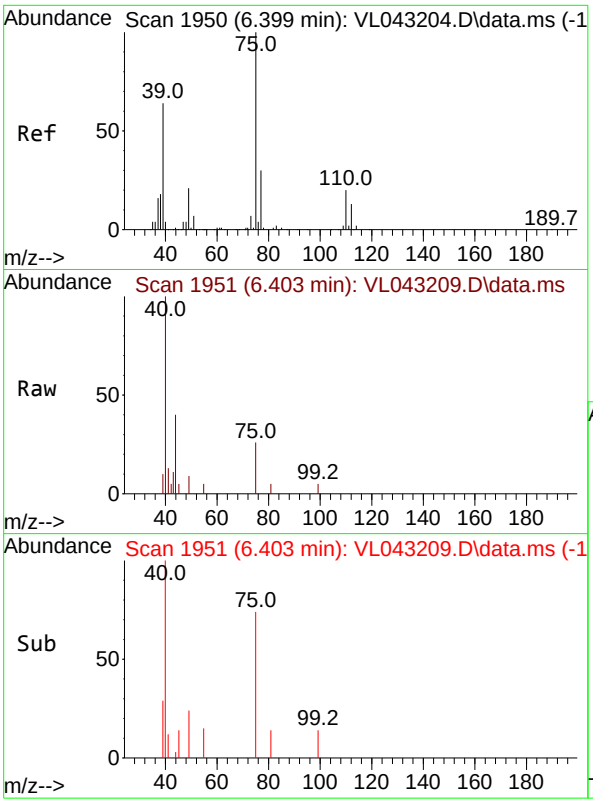


#44
2,2,4-Trimethylpentane
Concen: 0.014 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



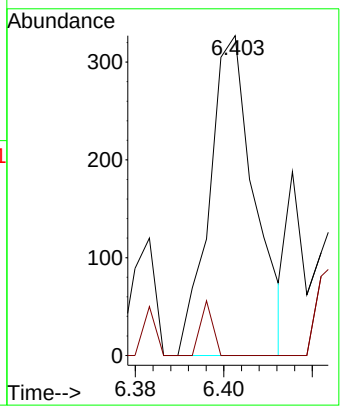


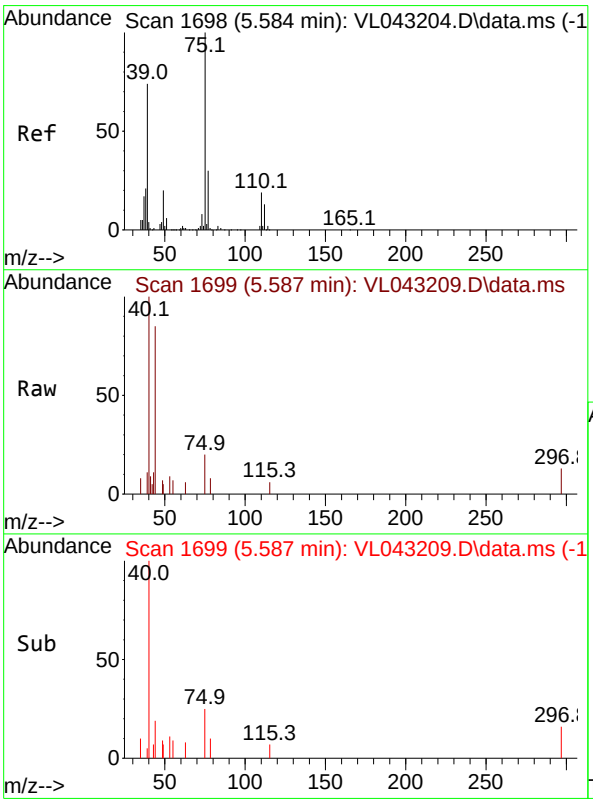
#45
t-1,3-Dichloropropene
Concen: 0.018 ppbv
RT: 6.403 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 75 Resp: 232

Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.3	36.5#

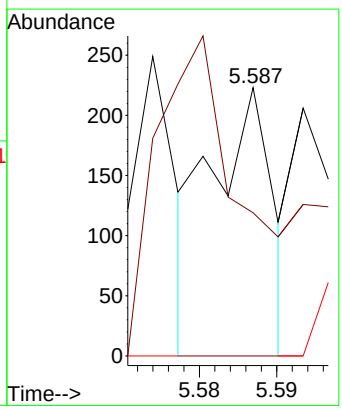


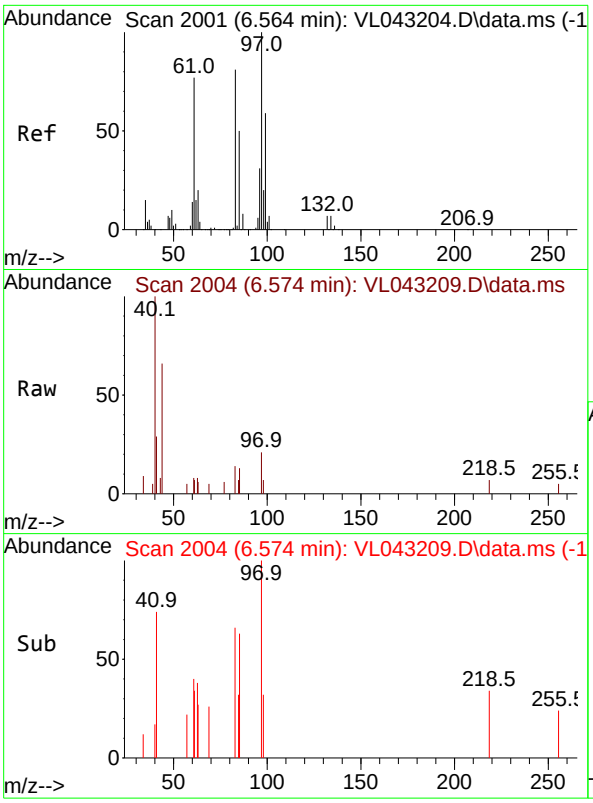


#46
cis-1,3-Dichloropropene
Concen: 0.008 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



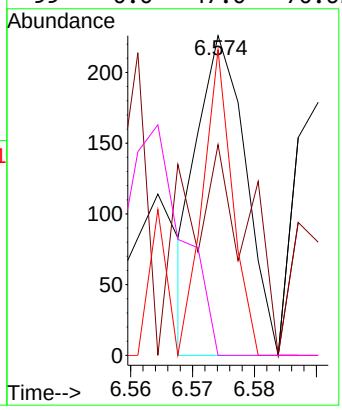


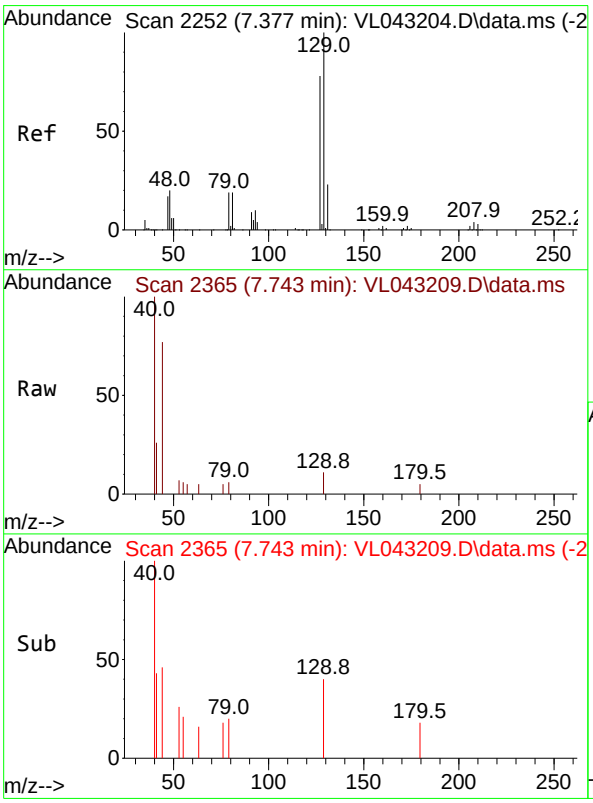
#47
1,1,2-Trichloroethane
Concen: 0.012 ppbv
RT: 6.574 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

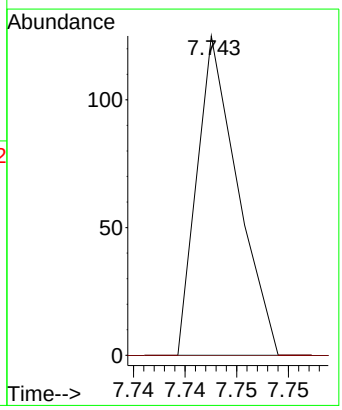


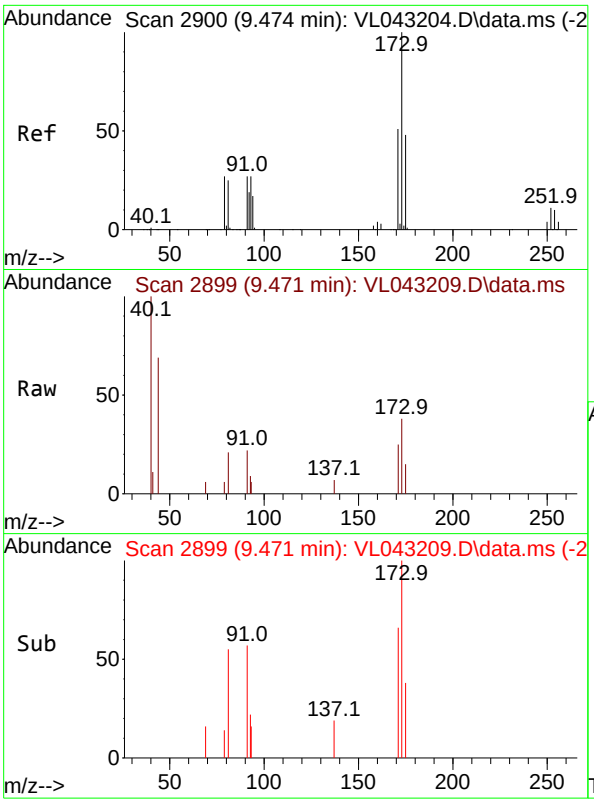


#48
Dibromochloromethane
Concen: 0.002 ppbv
RT: 7.743 min Scan# 2365
Delta R.T. 0.366 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:129 Resp: 34

Ion	Ratio	Lower	Upper
129	100		
127	111.8	39.3	117.9



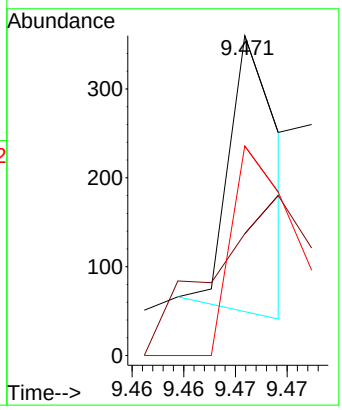


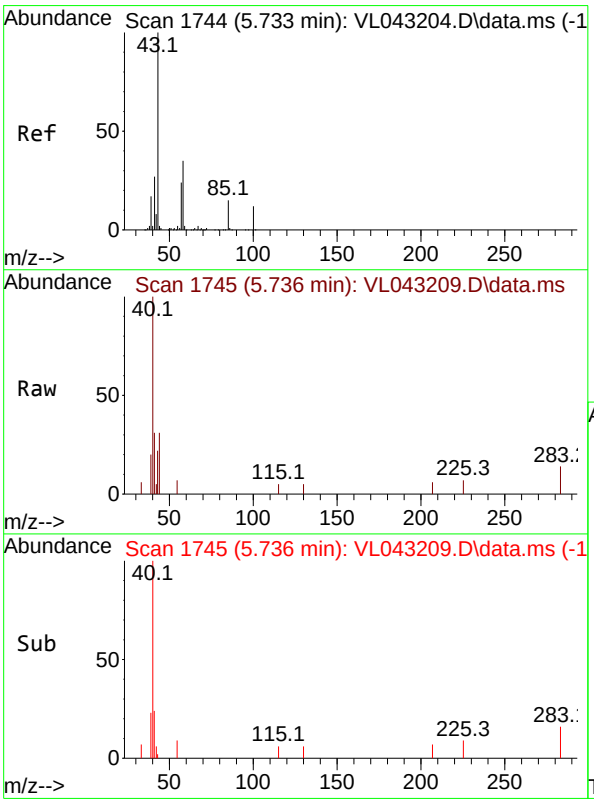
#49
Bromoform
Concen: 0.007 ppbv
RT: 9.471 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

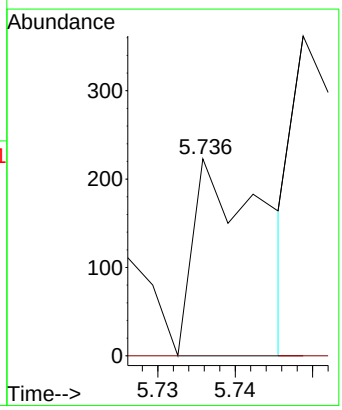


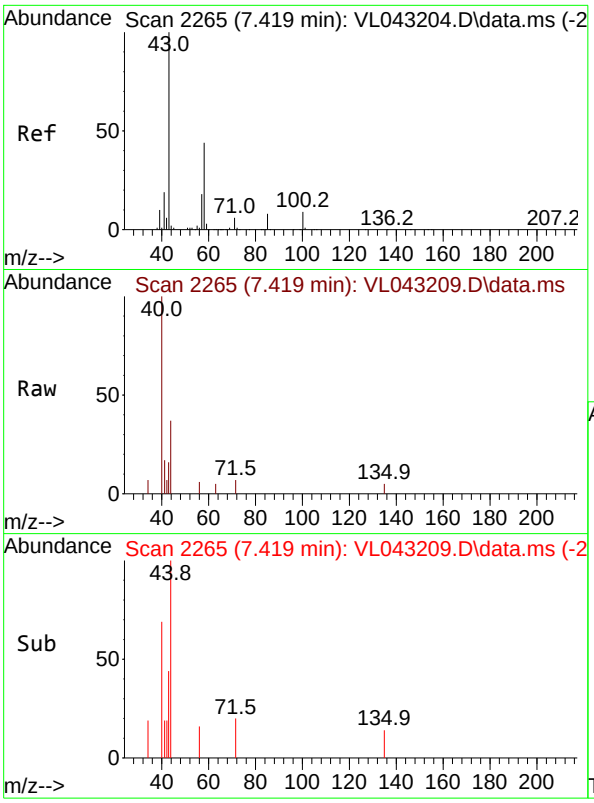


#50
4-Methyl-2-Pentanone
Concen: 0.005 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 43 Resp: 140

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#



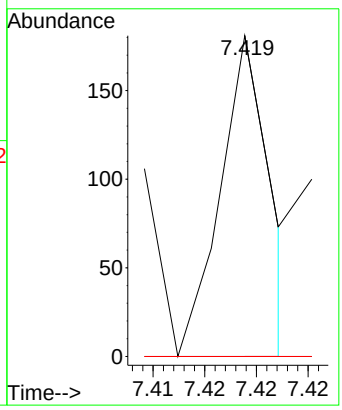


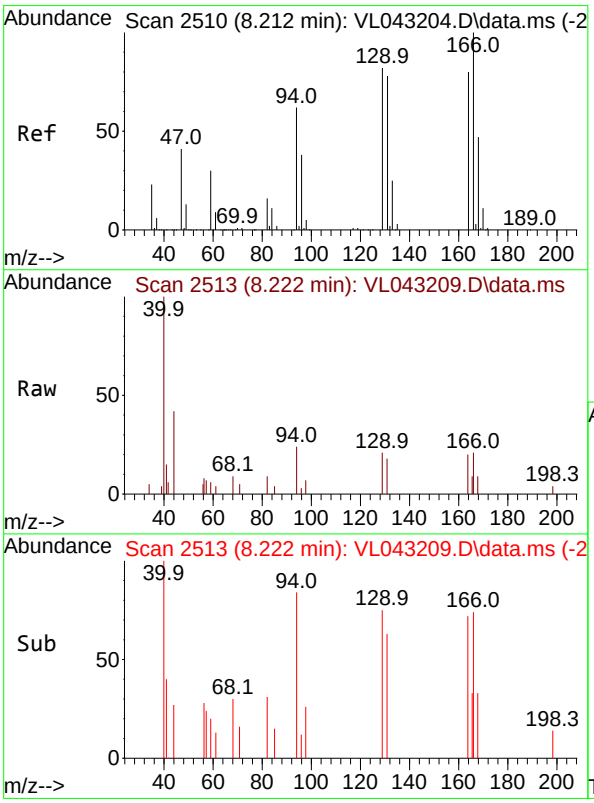
#51
2-Hexanone
Concen: 0.003 ppbv
RT: 7.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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

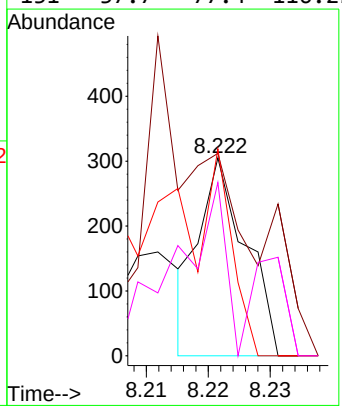


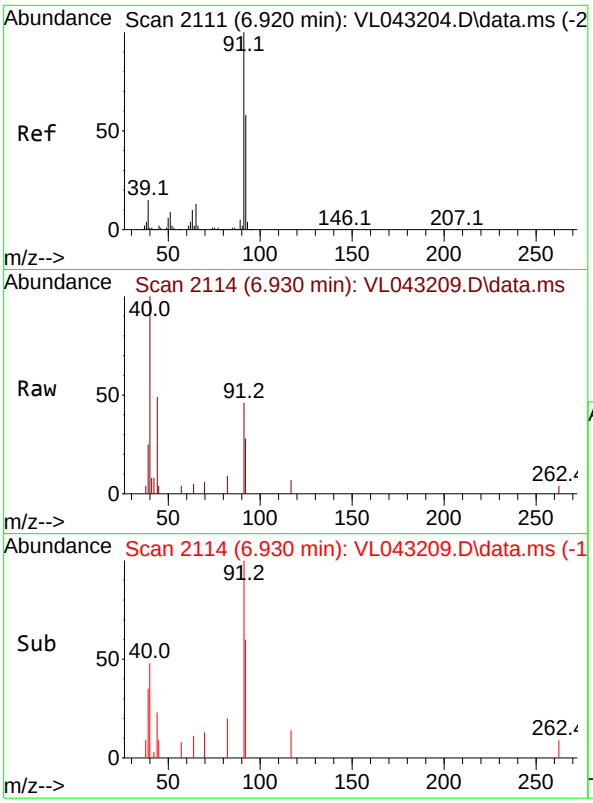


#52
Tetrachloroethene
Concen: 0.017 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



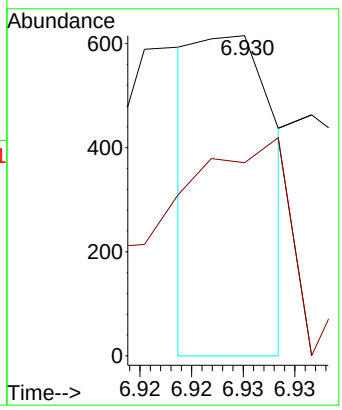


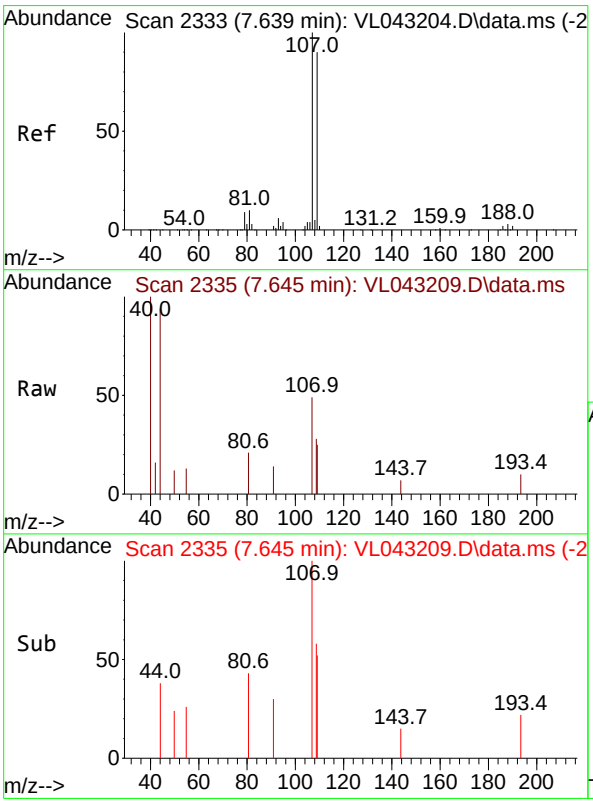
#53
Toluene
Concen: 0.011 ppbv
RT: 6.930 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 323

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.0#

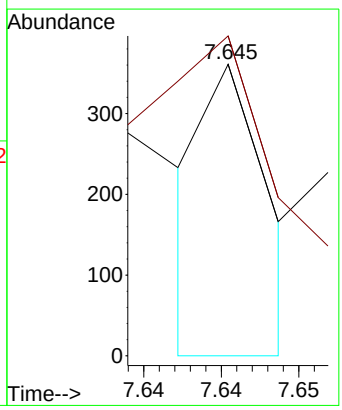


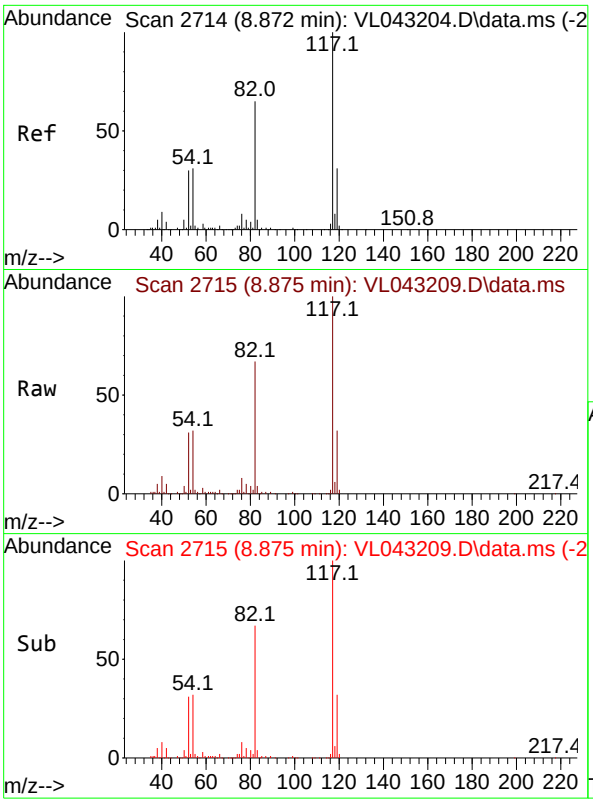


#54
1,2-Dibromoethane
Concen: 0.007 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:107 Resp: 102

Ion	Ratio	Lower	Upper
107	100		
109	102.6	72.1	108.1



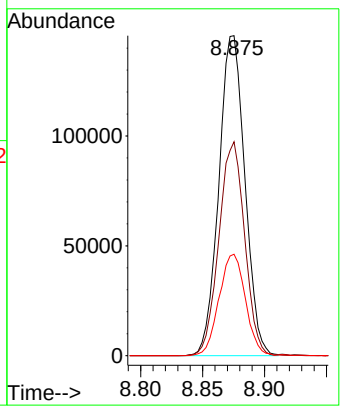


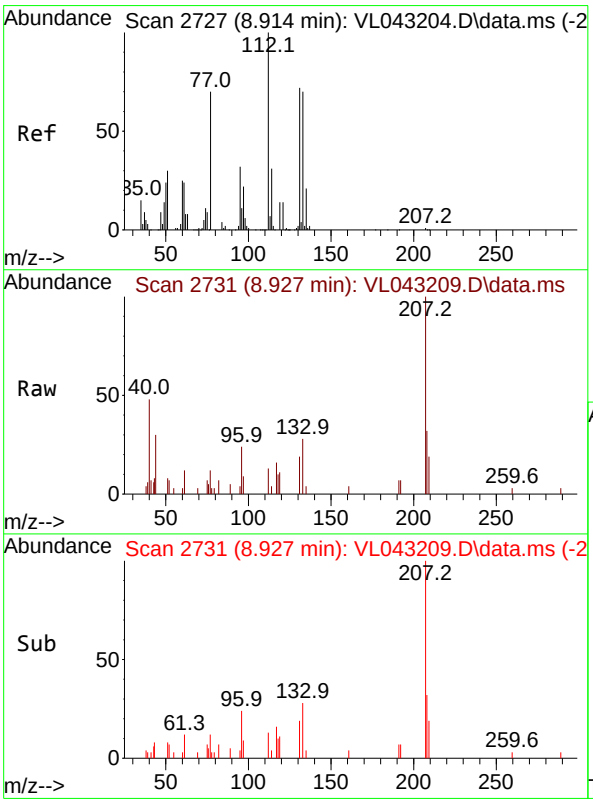
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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

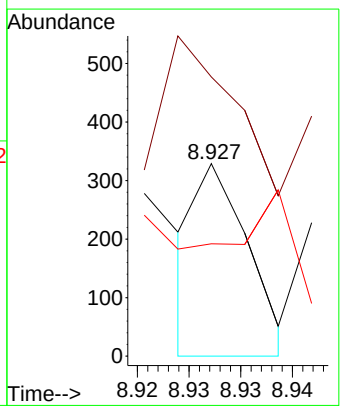


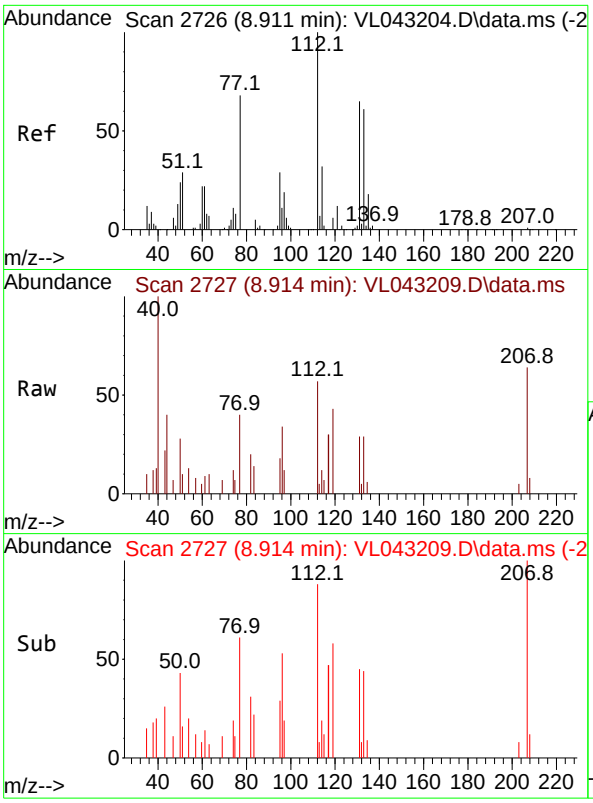


#56
1,1,1,2-Tetrachloroethane
Concen: 0.007 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.013 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



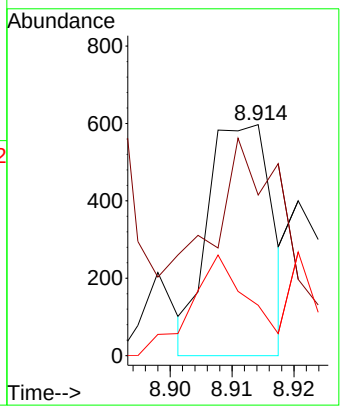


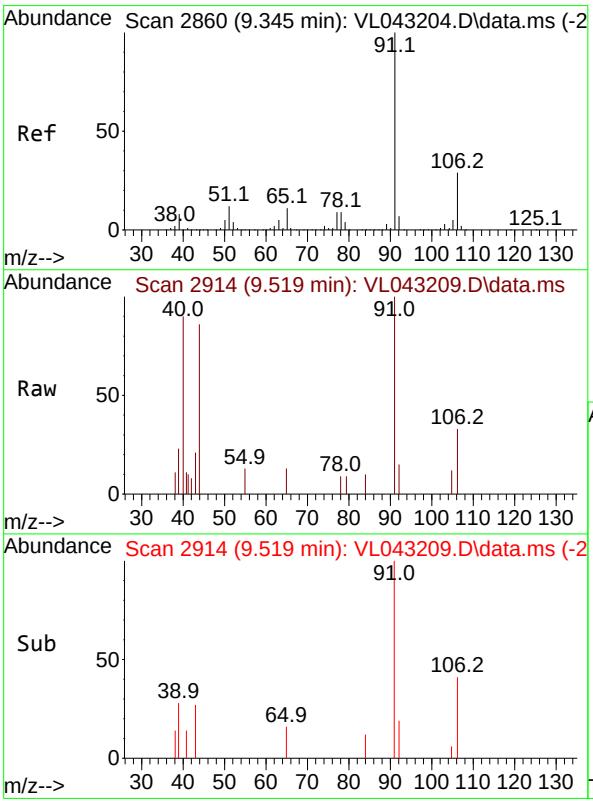
#57
Chlorobenzene
Concen: 0.020 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

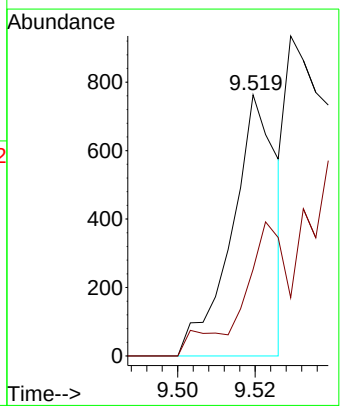


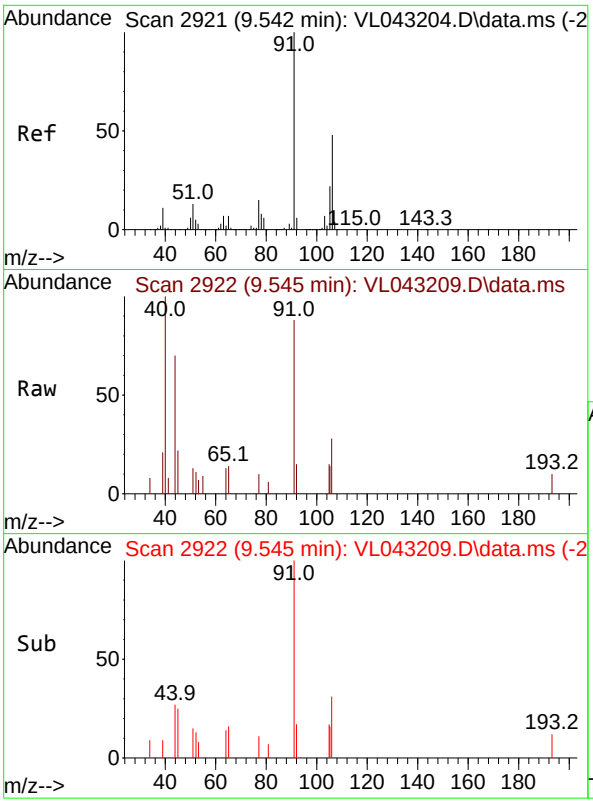


#58
Ethyl Benzene
Concen: 0.015 ppbv
RT: 9.519 min Scan# 2914
Delta R.T. 0.175 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 91 Resp: 613

Ion	Ratio	Lower	Upper
91	100		
106	33.2	22.8	34.2



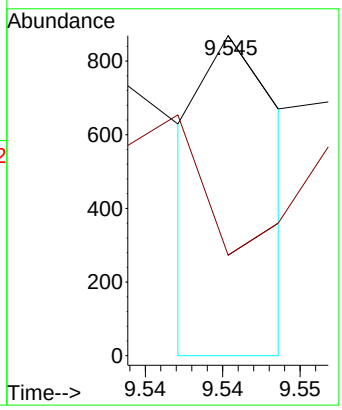


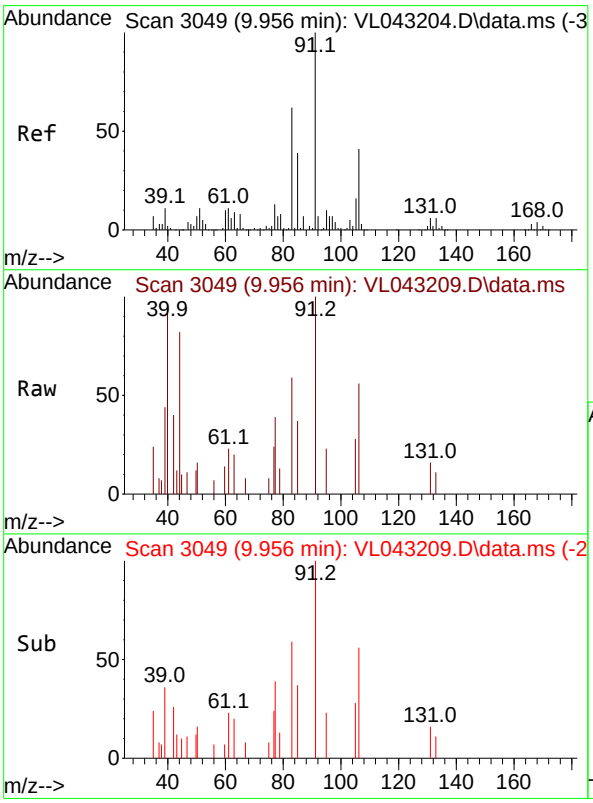
#59
m/p-Xylene
Concen: 0.009 ppbv
RT: 9.545 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 299

Ion	Ratio	Lower	Upper
91	100		
106	341.8	36.1	54.1#

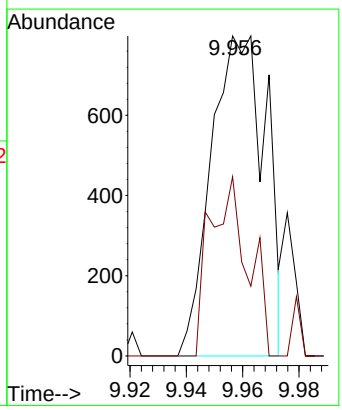


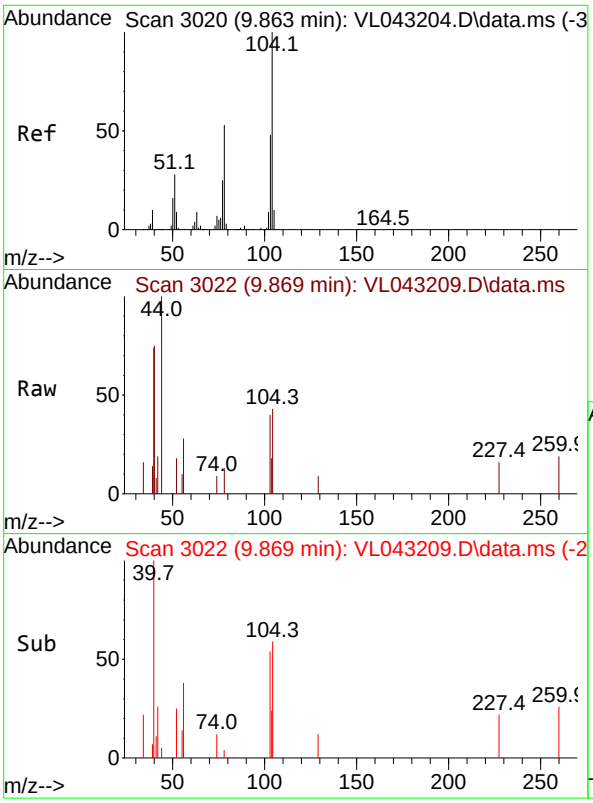


#60
o-Xylene
Concen: 0.033 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 91 Resp: 1078

Ion	Ratio	Lower	Upper
91	100		
106	41.6	20.9	62.8



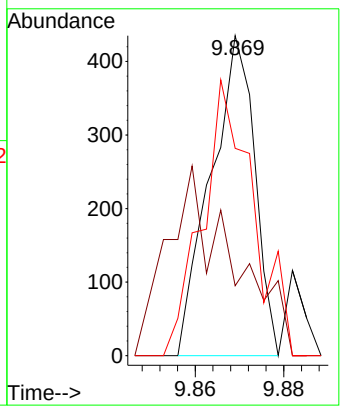


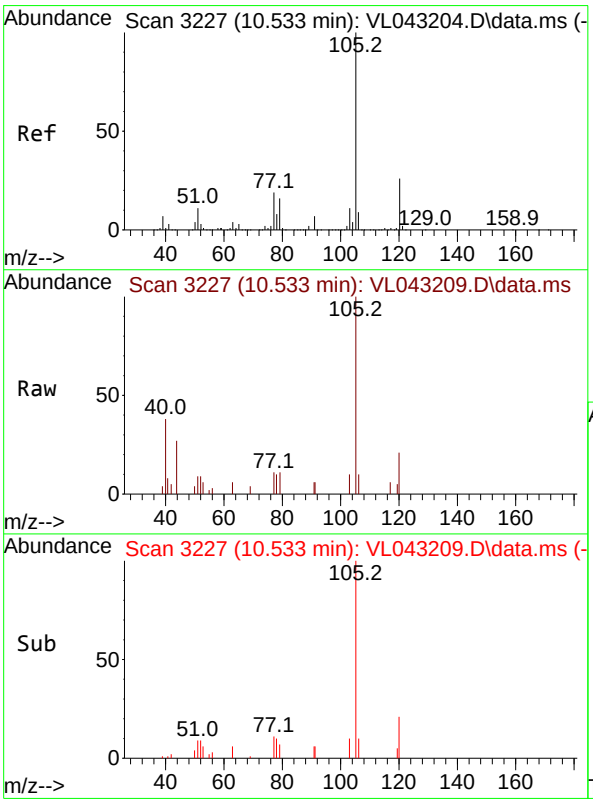
#61
Styrene
Concen: 0.021 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

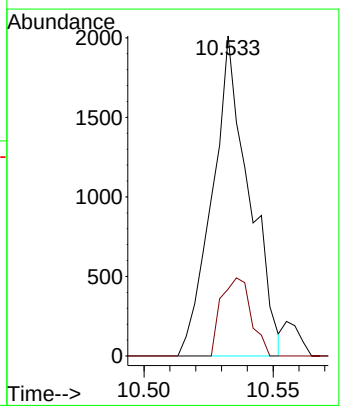


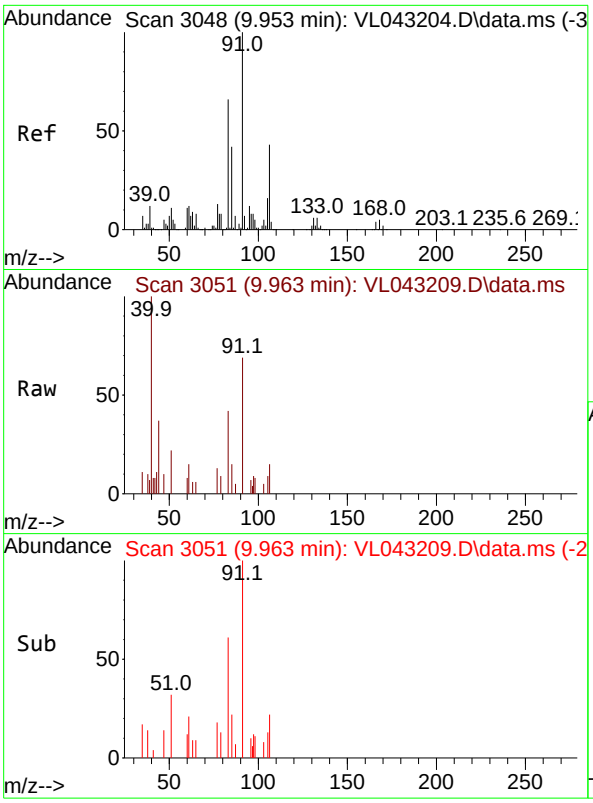


#62
Isopropylbenzene
Concen: 0.034 ppbv
RT: 10.533 min Scan# 3227
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:105 Resp: 1990

Ion	Ratio	Lower	Upper
105	100		
120	19.9	19.8	29.8



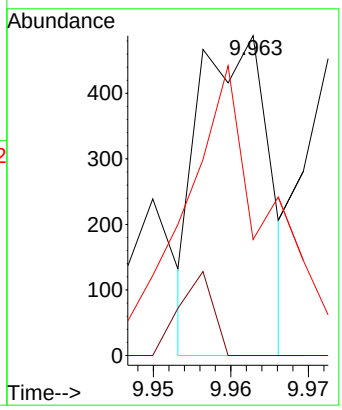


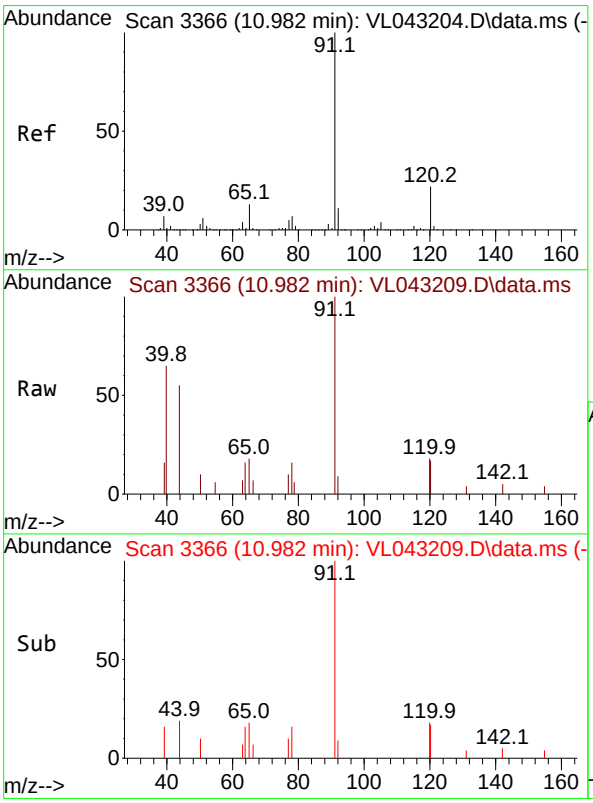
#63
1,1,2,2-Tetrachloroethane
Concen: 0.015 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

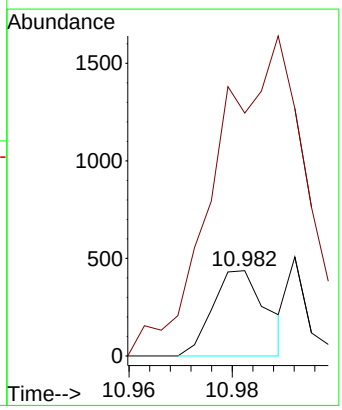


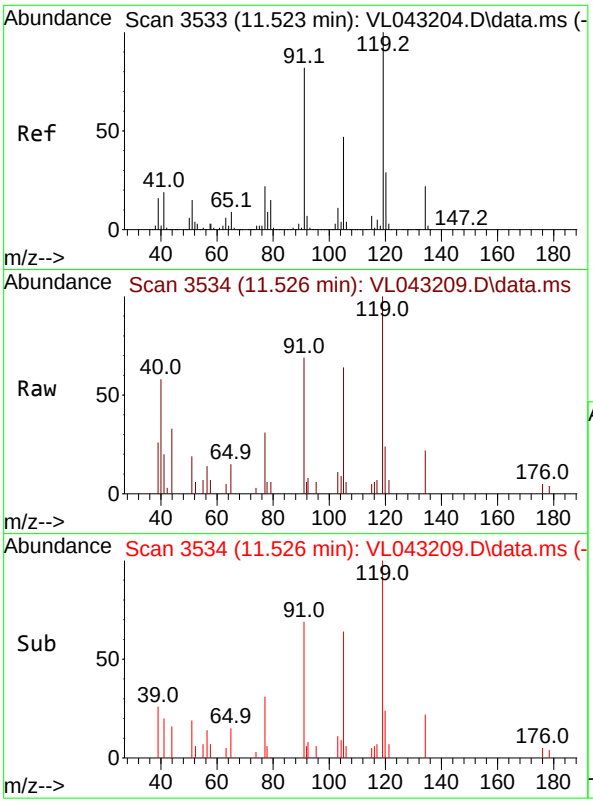


#64
n-propylbenzene
Concen: 0.021 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:120 Resp: 316

Ion	Ratio	Lower	Upper
120	100		
91	519.6	377.1	565.7



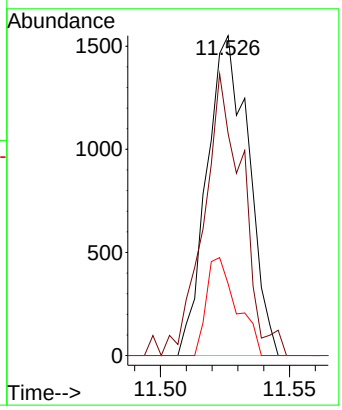


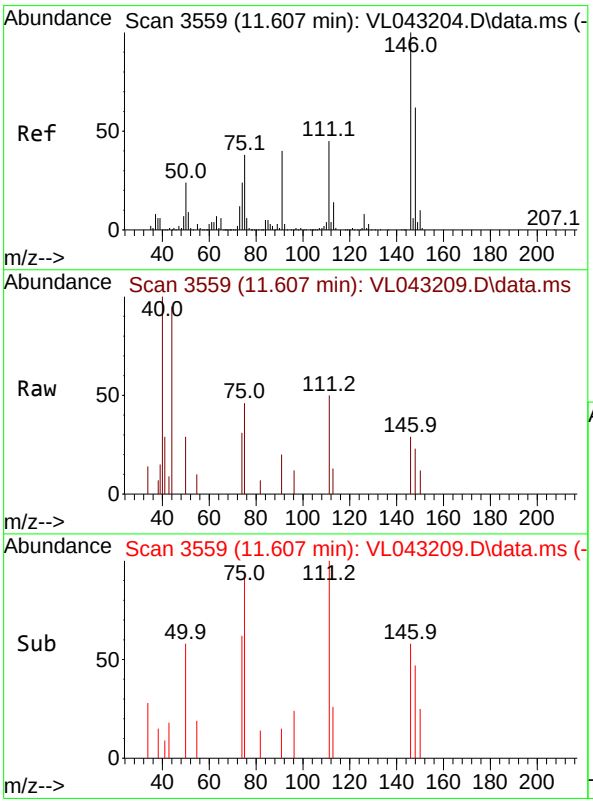
#65
tert-Butylbenzene
Concen: 0.033 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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

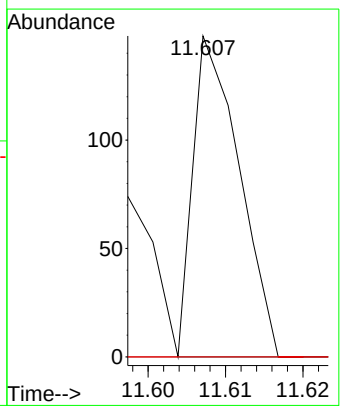


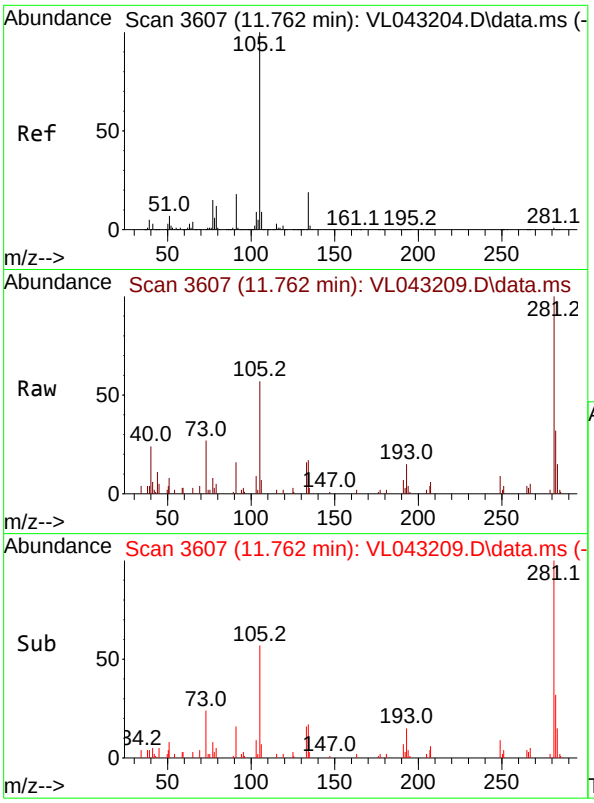


#66
Benzyl Chloride
Concen: 0.012 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



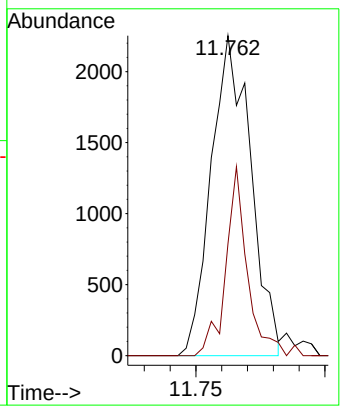


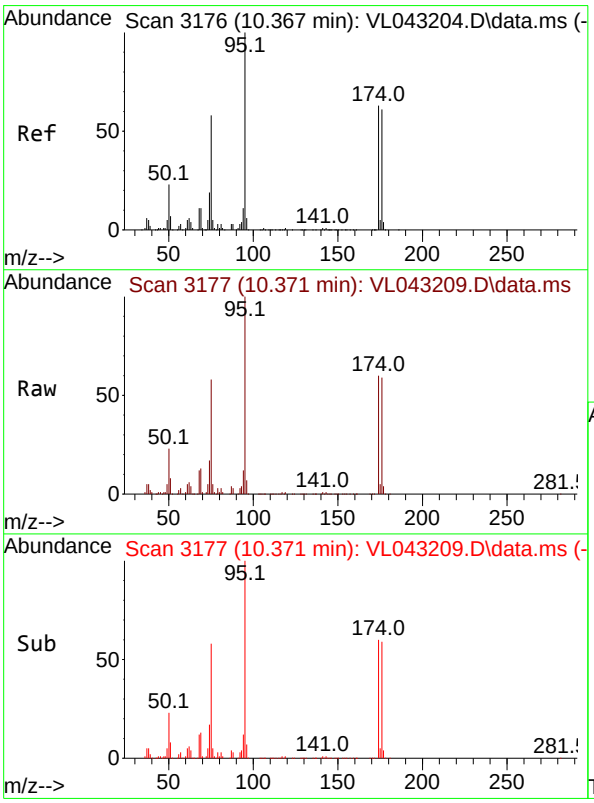
#67
sec-Butylbenzene
Concen: 0.033 ppbv
RT: 11.762 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 2398

Ion	Ratio	Lower	Upper
105	100		
134	32.4	15.0	22.6#

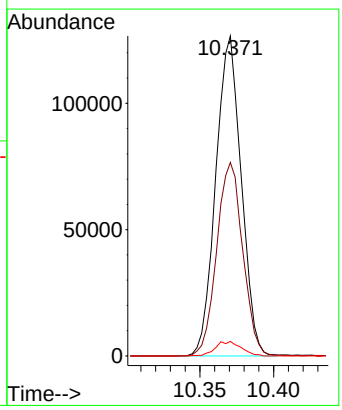


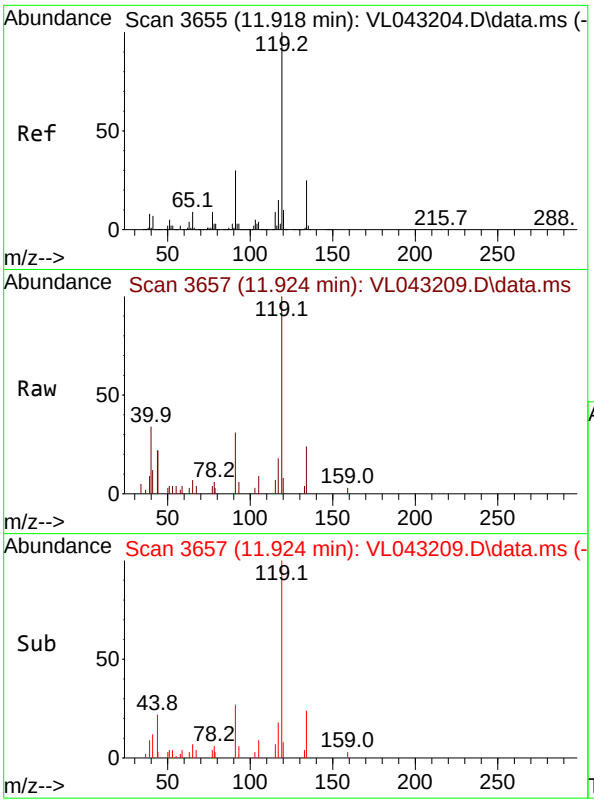


#68
1-Bromo-4-Fluorobenzene
Concen: 9.712 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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



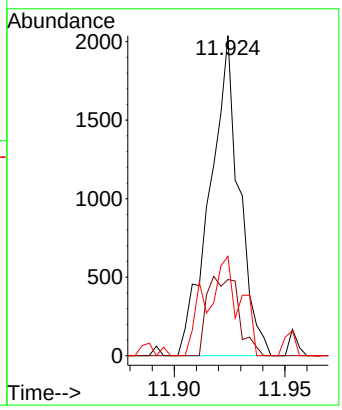


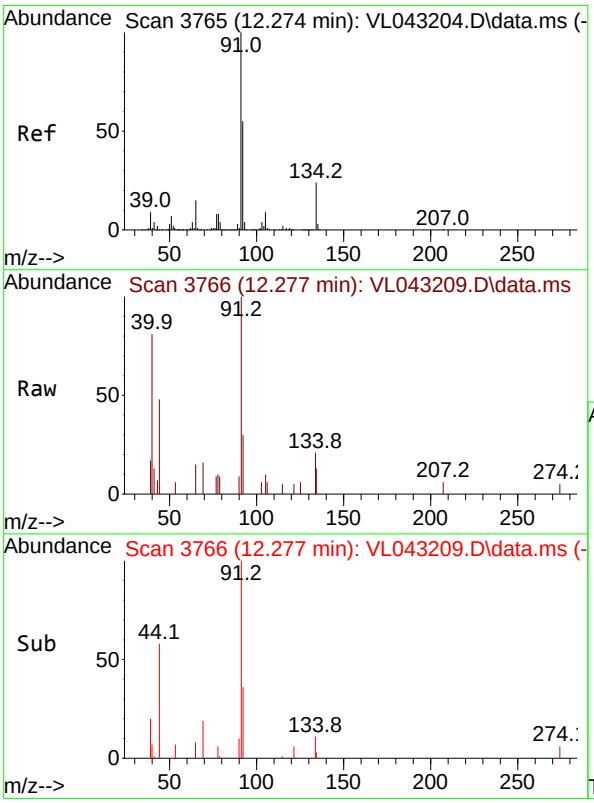
#69
p-Isopropyltoluene
Concen: 0.030 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

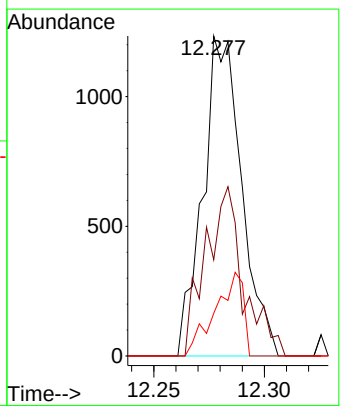


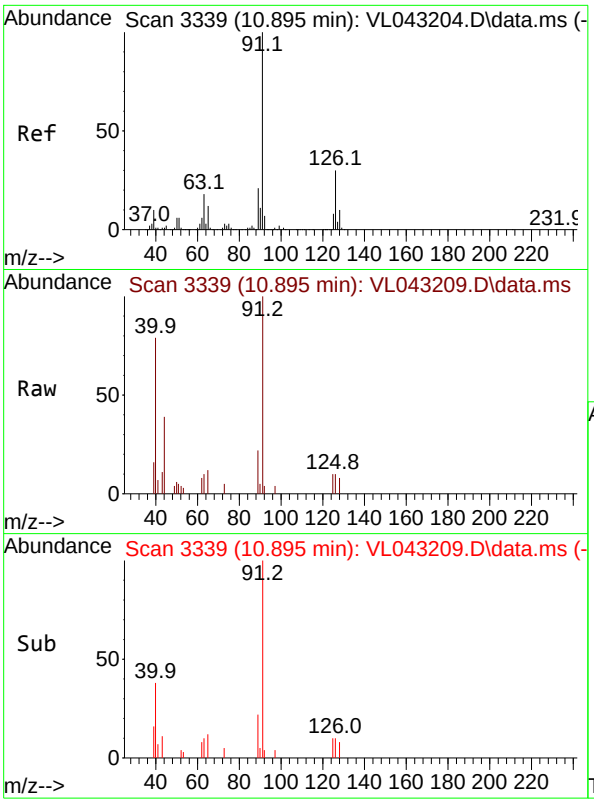


#70
n-Butylbenzene
Concen: 0.025 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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



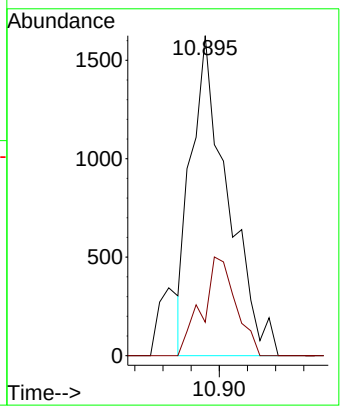


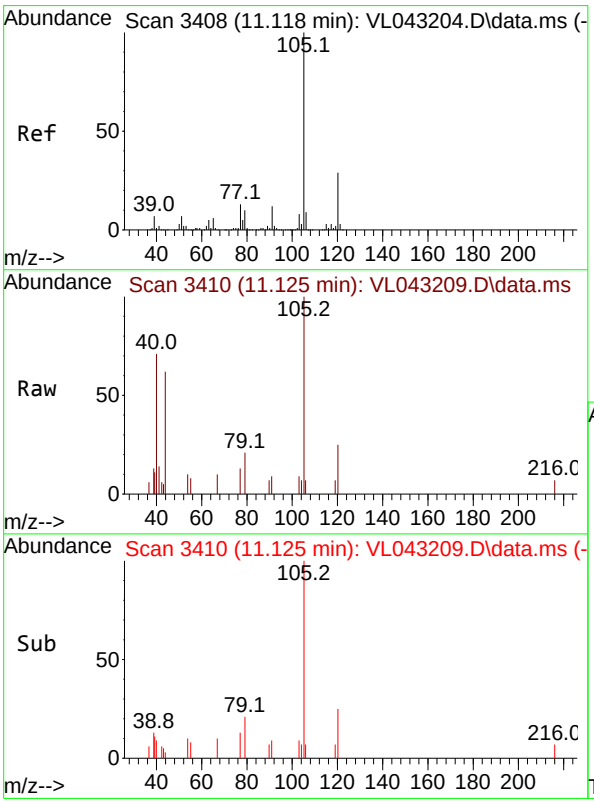
#71
2-Chlorotoluene
Concen: 0.032 ppbv
RT: 10.895 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 1463

Ion	Ratio	Lower	Upper
91	100		
126	28.2	11.7	46.7

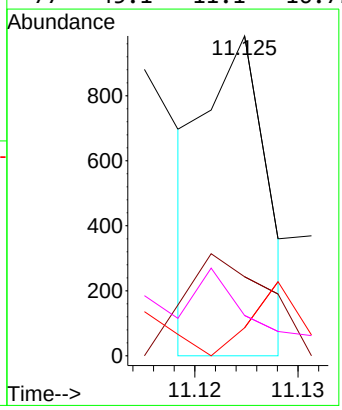


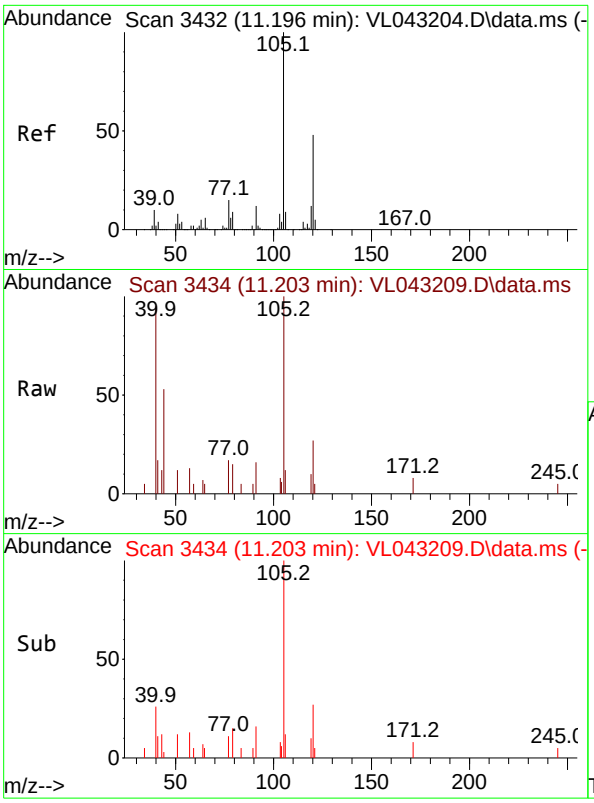


#72
4-Ethyltoluene
Concen: 0.010 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



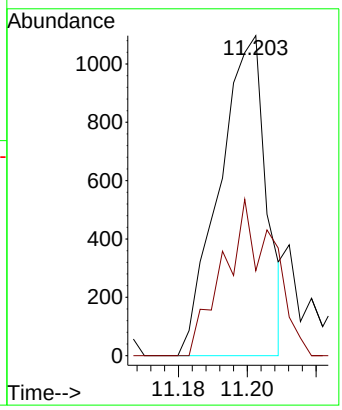


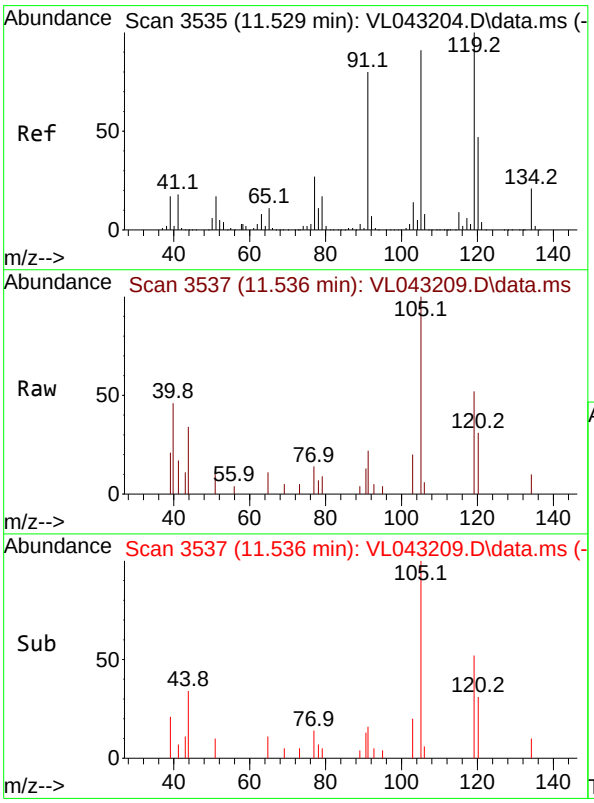
#73
1,3,5-Trimethylbenzene
Concen: 0.031 ppbv
RT: 11.203 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 1041

Ion	Ratio	Lower	Upper
105	100		
120	26.5	38.6	57.8#

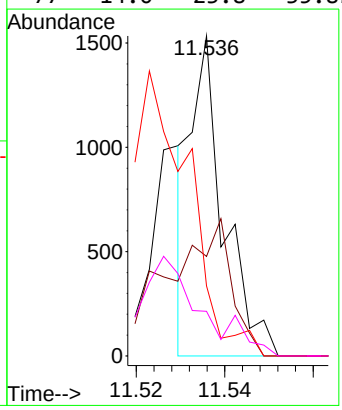


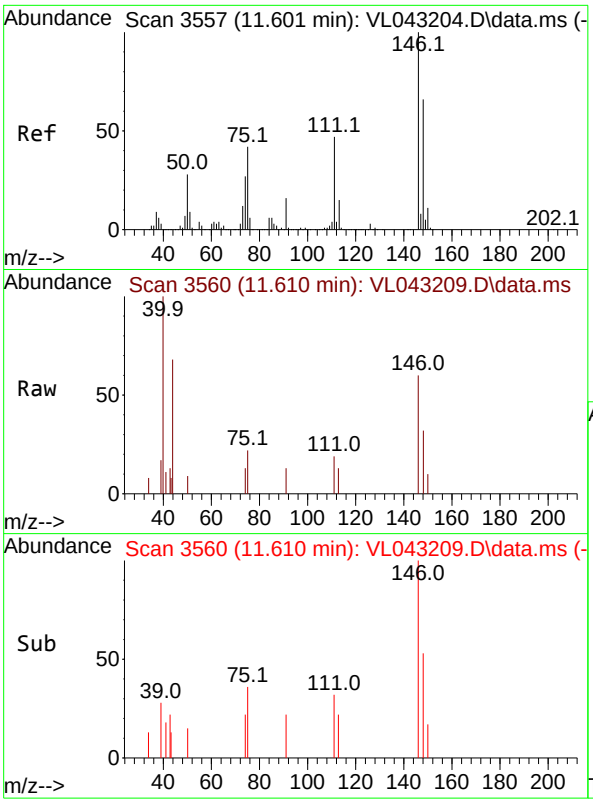


#74
1,2,4-Trimethylbenzene
Concen: 0.021 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



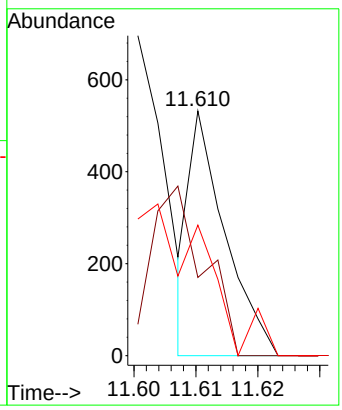


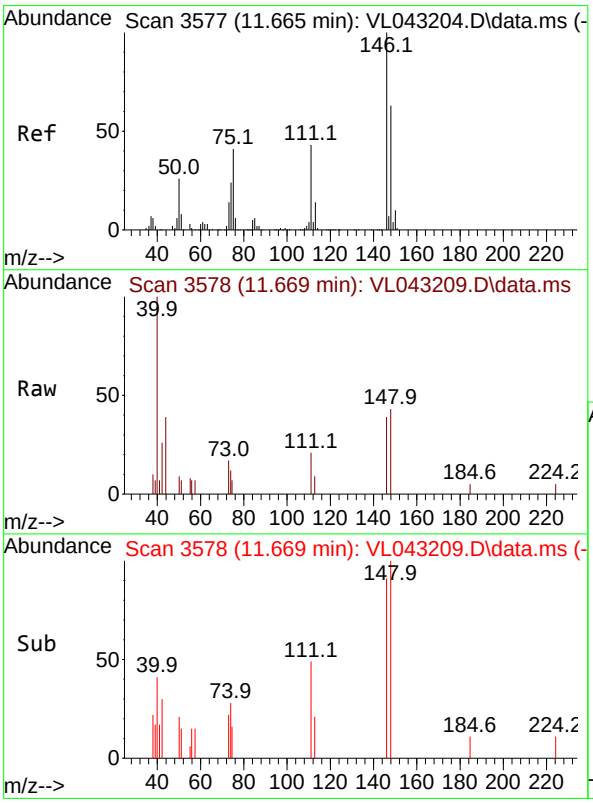
#75
1,3-Dichlorobenzene
Concen: 0.010 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

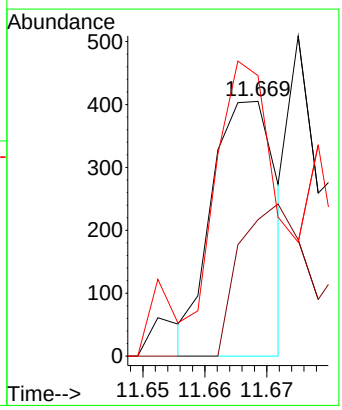


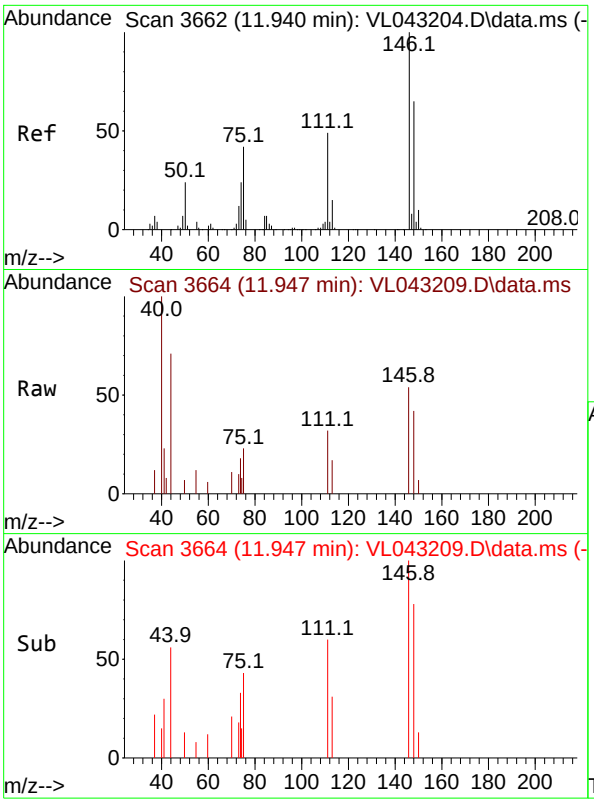


#76
1,4-Dichlorobenzene
Concen: 0.014 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#



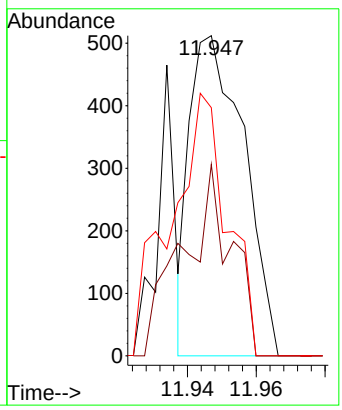


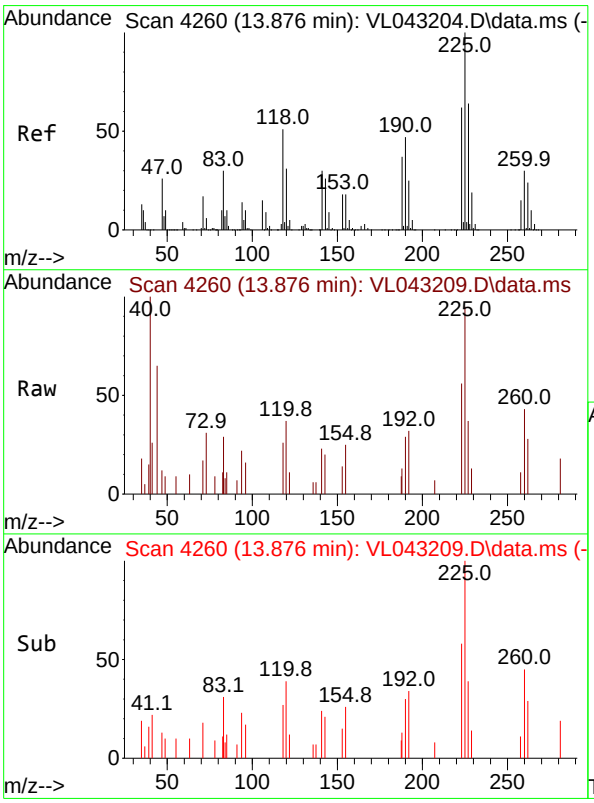
#77
1,2-Dichlorobenzene
Concen: 0.027 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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

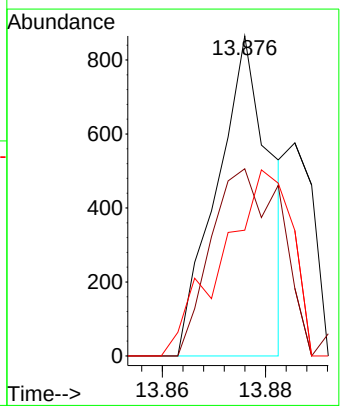


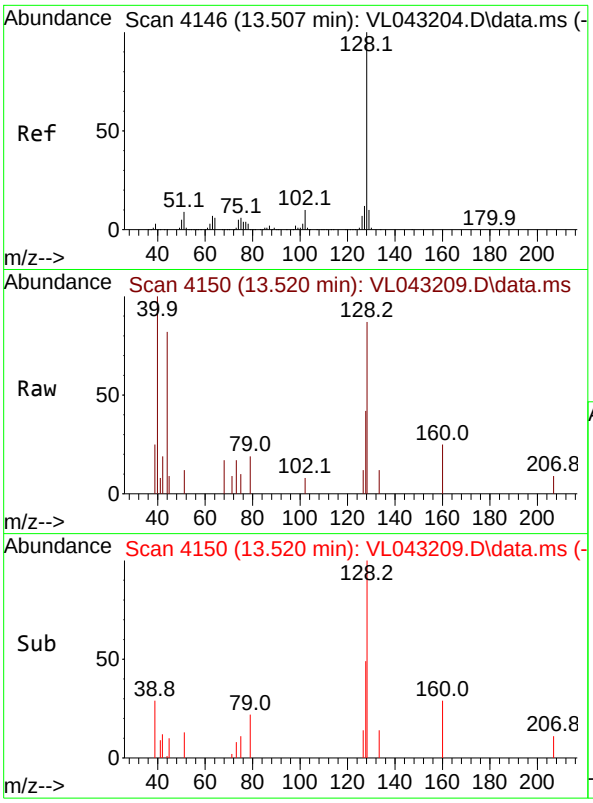


#78
Hexachloro-1,3-Butadiene
Concen: 0.036 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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



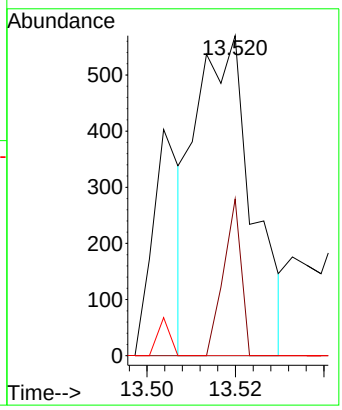


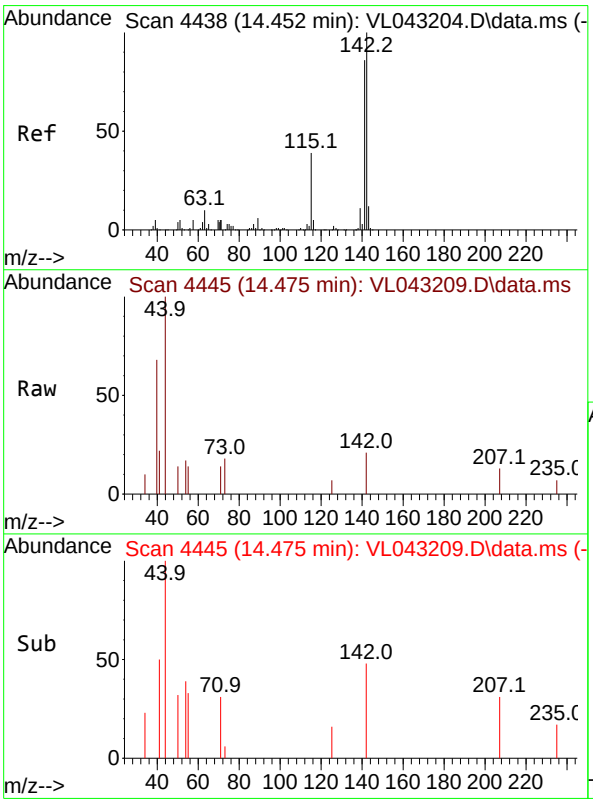
#79
Naphthalene
Concen: 0.015 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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#

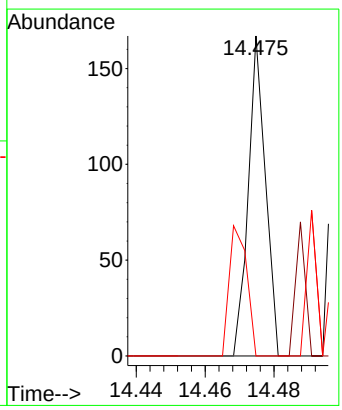


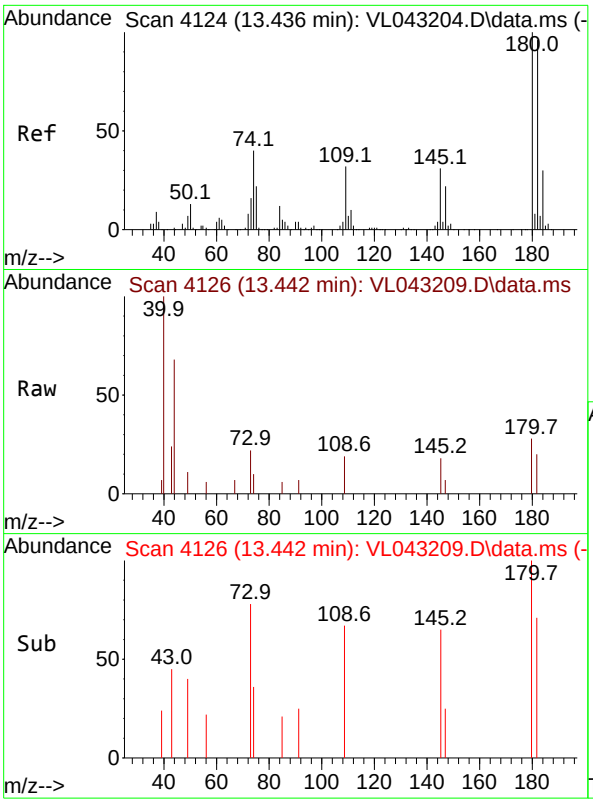


#80
Naphthalene,2-methyl-
Concen: 0.007 ppbv
RT: 14.475 min Scan# 4445
Delta R.T. 0.023 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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



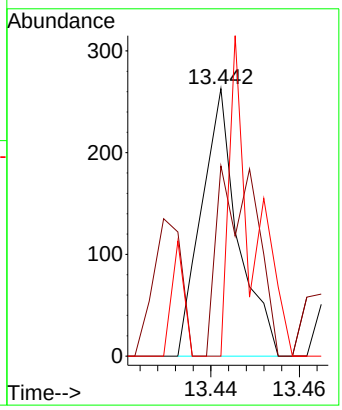


#81
1,2,4-Trichlorobenzene
Concen: 0.010 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

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

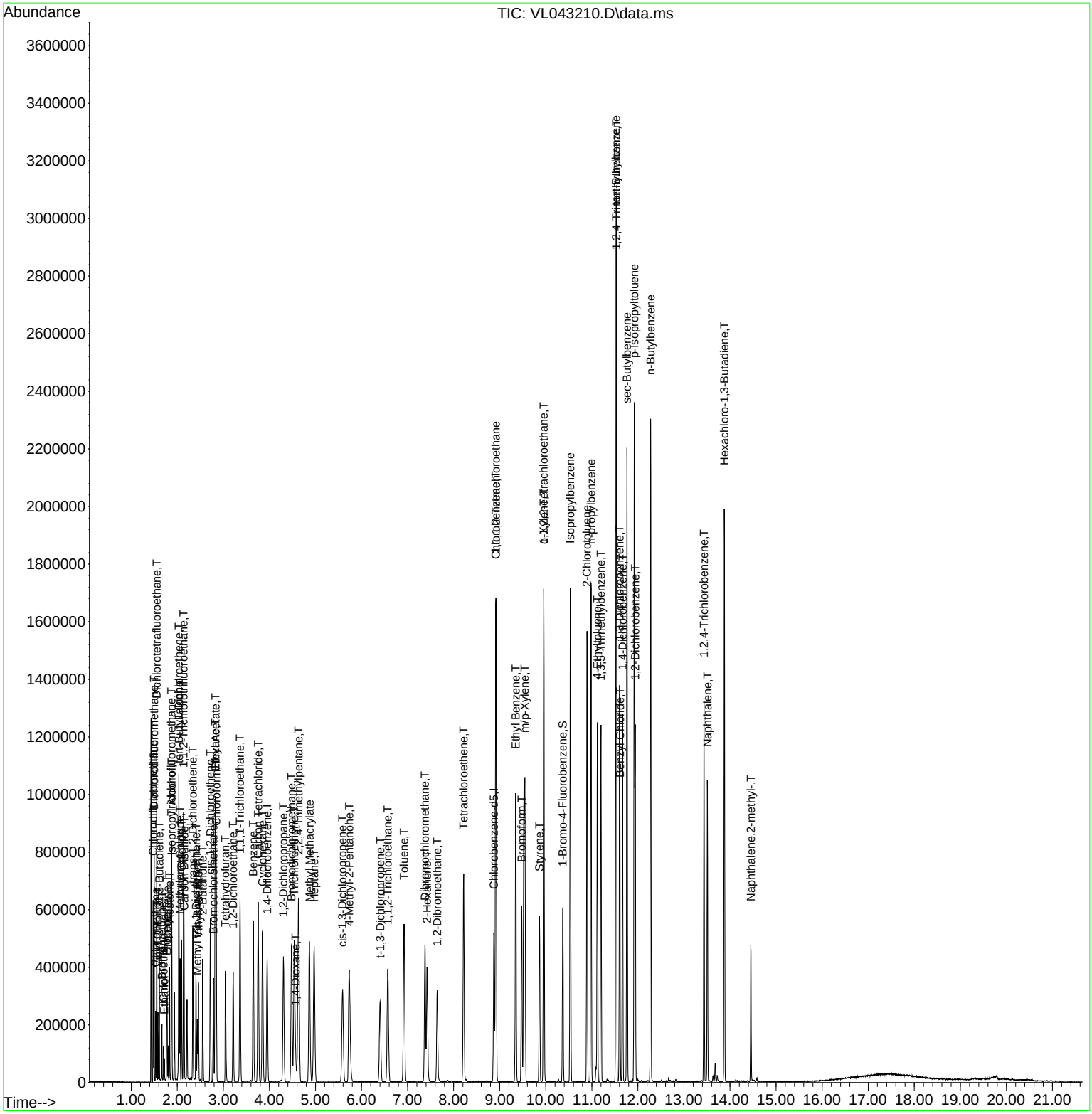
(#) = qualifier out of range (m) = manual integration (+) = signals summed

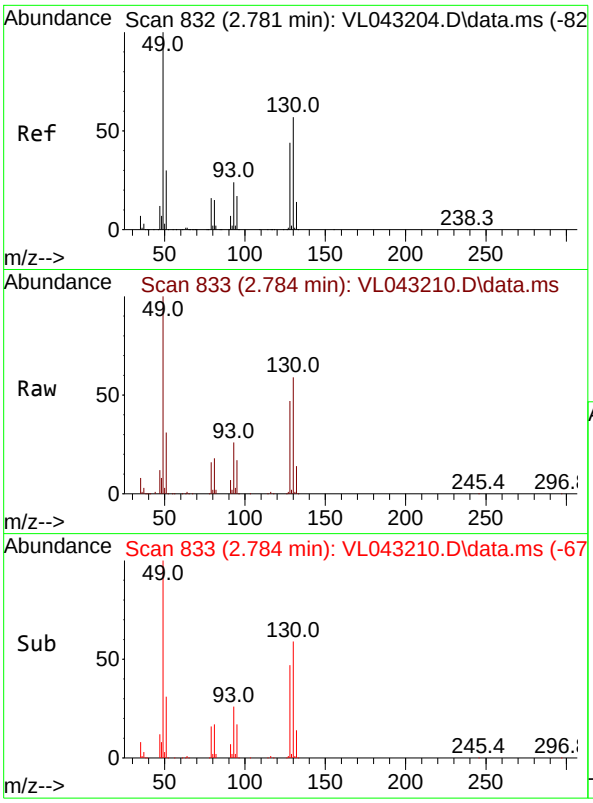
Quantitation Report (Not Reviewed)

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



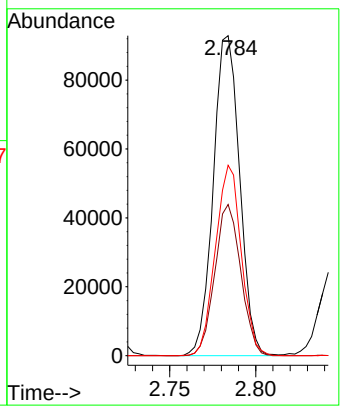


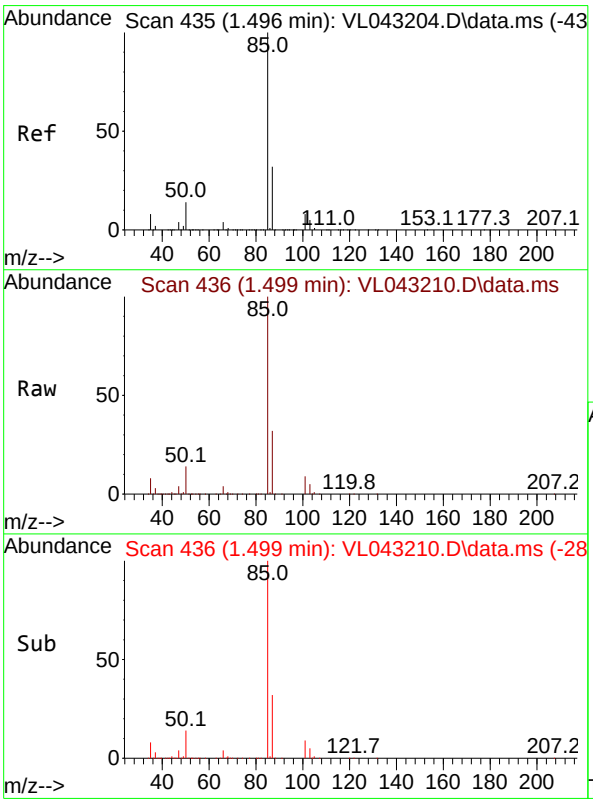
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

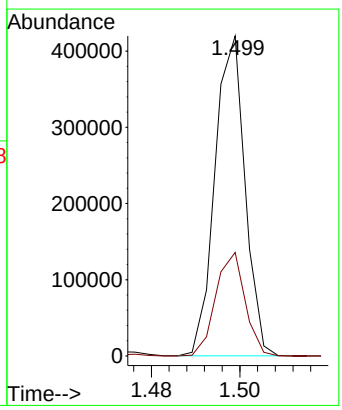


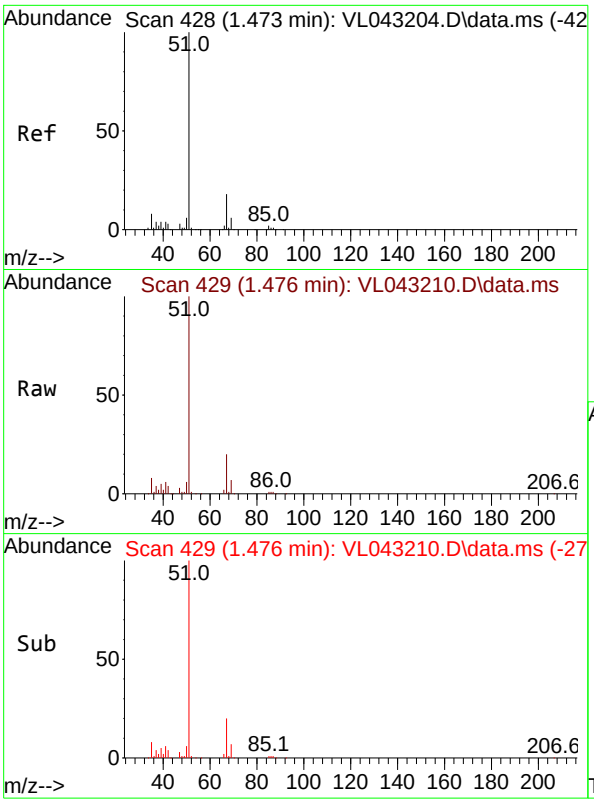


#2
Dichlorodifluoromethane
Concen: 14.184 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 85 Resp: 197987

Ion	Ratio	Lower	Upper
85	100		
87	32.4	25.4	38.2



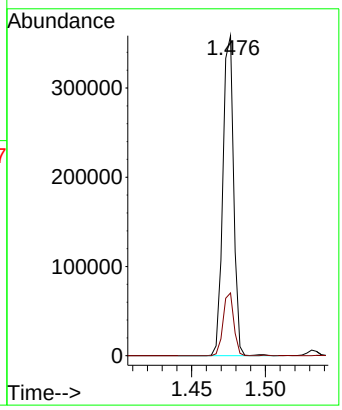


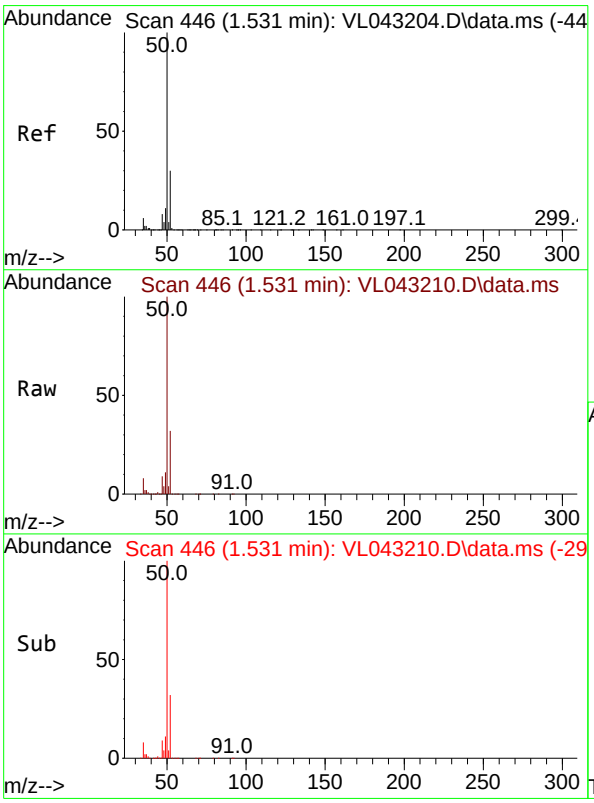
#3
Chlorodifluoromethane
Concen: 13.317 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 182813

Ion	Ratio	Lower	Upper
51	100		
67	19.7	14.9	22.3

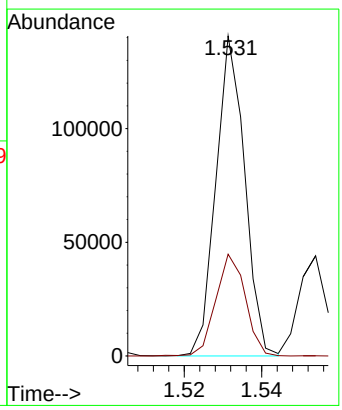


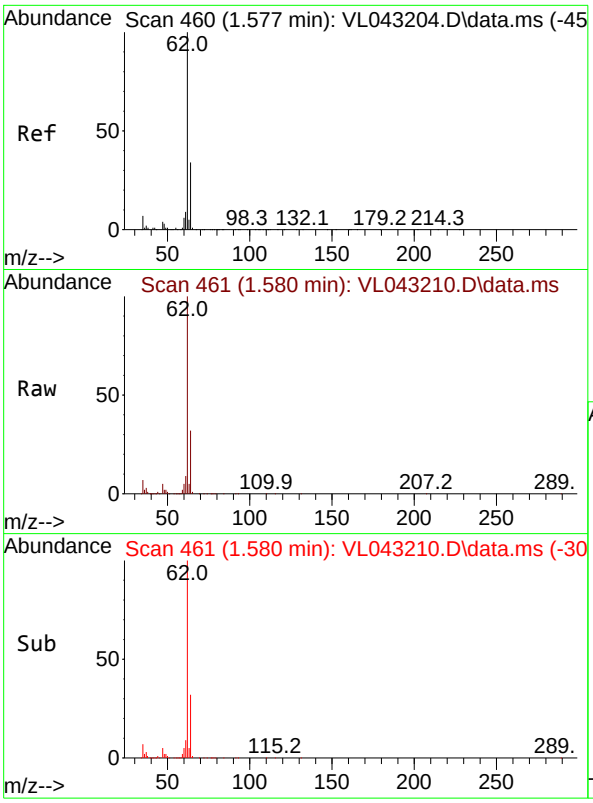


#4
Chloromethane
Concen: 13.918 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 50 Resp: 72636

Ion	Ratio	Lower	Upper
50	100		
52	31.7	24.1	36.1



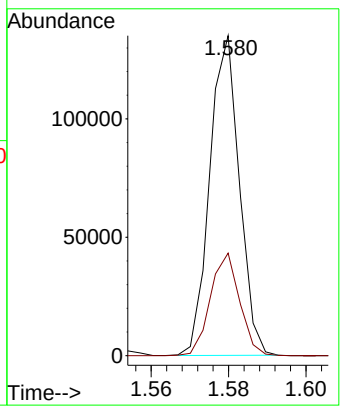


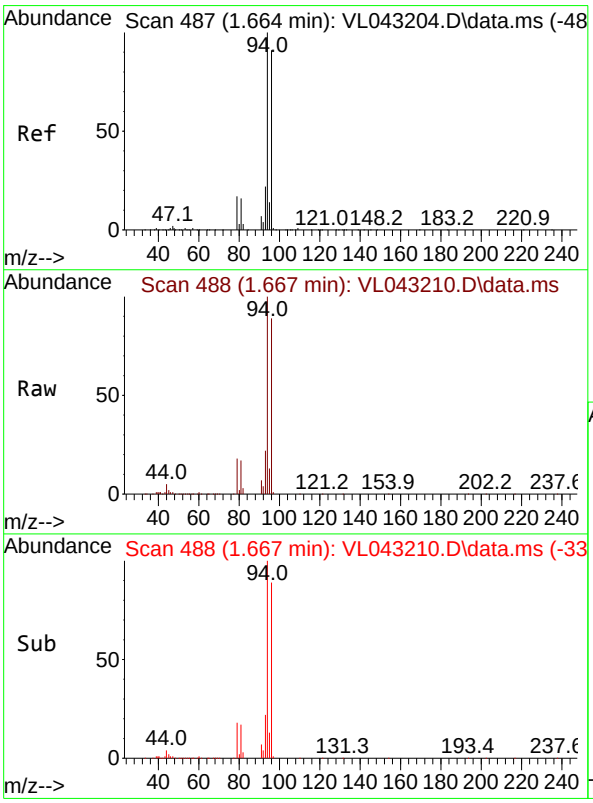
#5
Vinyl Chloride
Concen: 12.557 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 71671

Ion	Ratio	Lower	Upper
62	100		
64	32.0	27.3	40.9

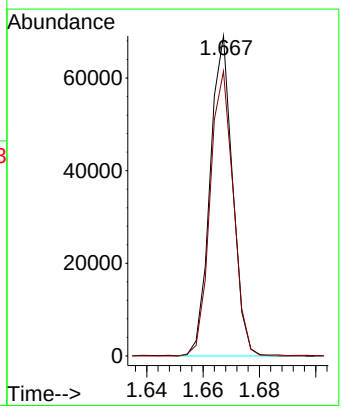


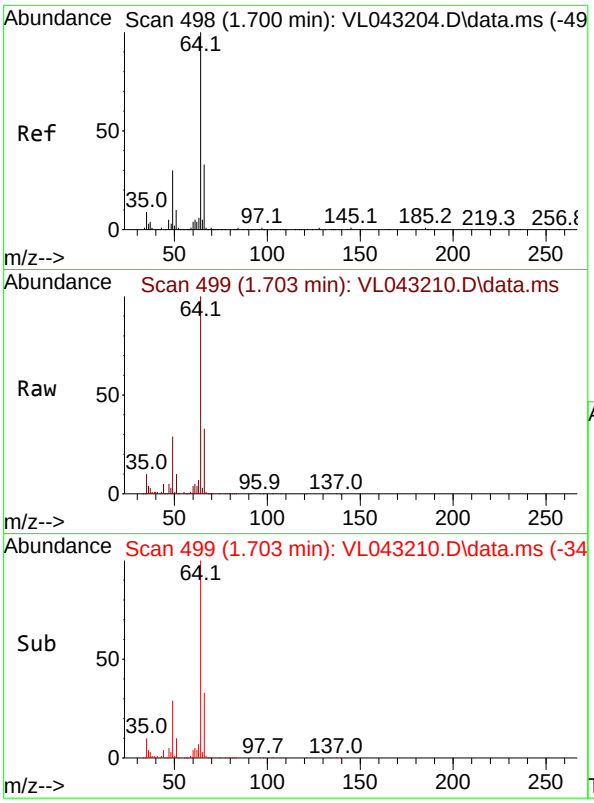


#6
Bromomethane
Concen: 13.830 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 94 Resp: 38265

Ion	Ratio	Lower	Upper
94	100		
96	89.0	72.9	109.3



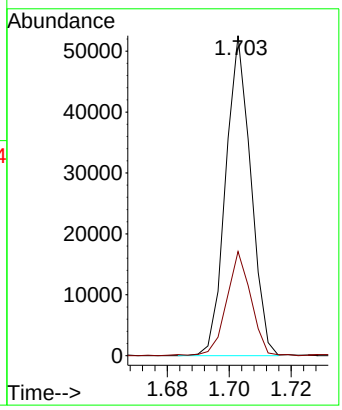


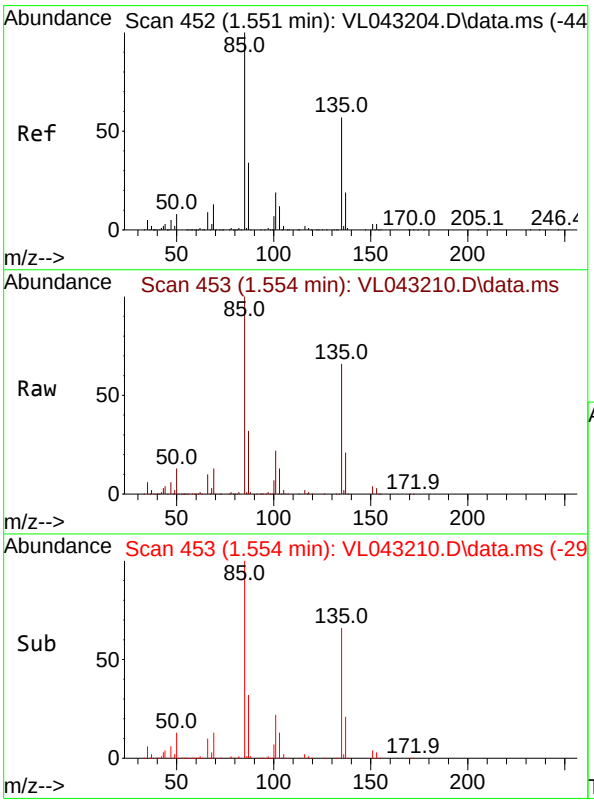
#7
Chloroethane
Concen: 13.309 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 64 Resp: 29584

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.8	40.2

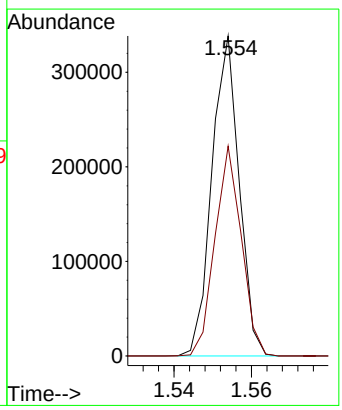


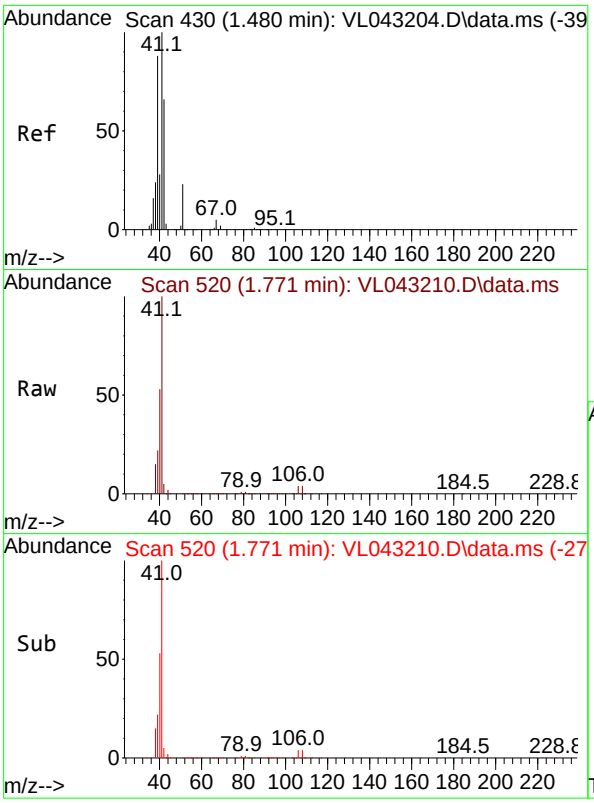


#8
Dichlorotetrafluoroethane
Concen: 14.271 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 85 Resp: 165709

Ion	Ratio	Lower	Upper
85	100		
135	63.7	52.6	79.0



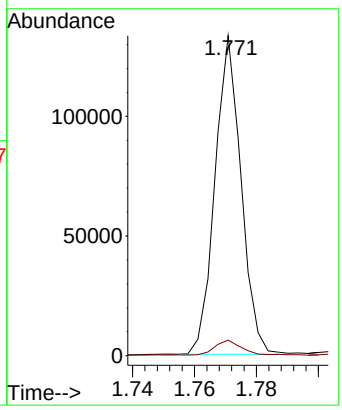


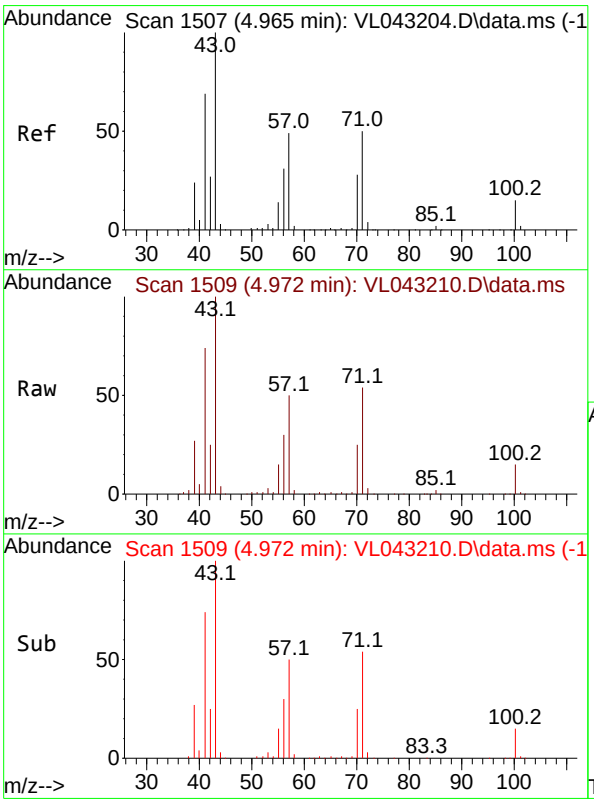
#9
Propene
Concen: 12.212 ppbv
RT: 1.771 min Scan# 5
Delta R.T. 0.291 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 77762

Ion	Ratio	Lower	Upper
41	100		
42	5.1	3.7	5.5

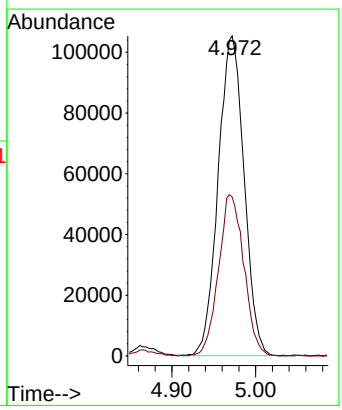


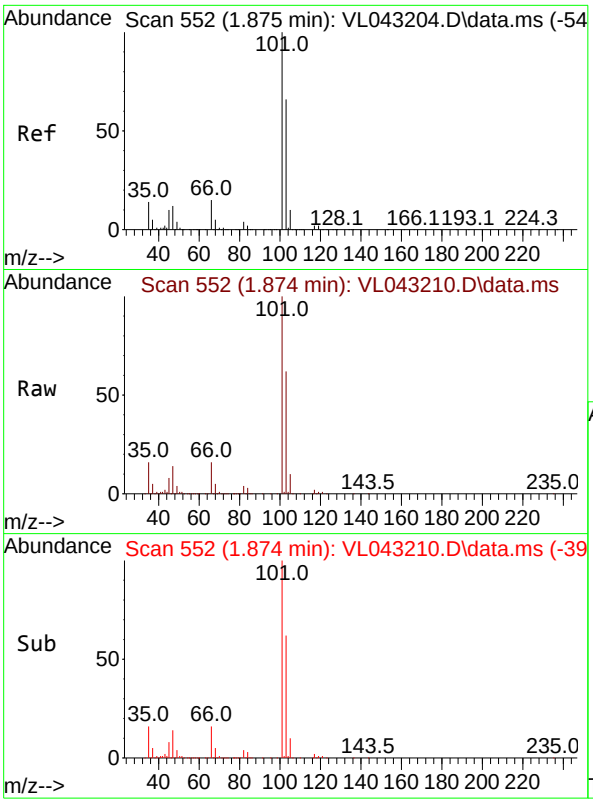


#10
Heptane
Concen: 12.934 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 225935

Ion	Ratio	Lower	Upper
43	100		
57	49.4	39.7	59.5



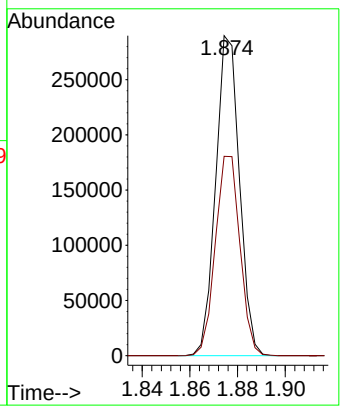


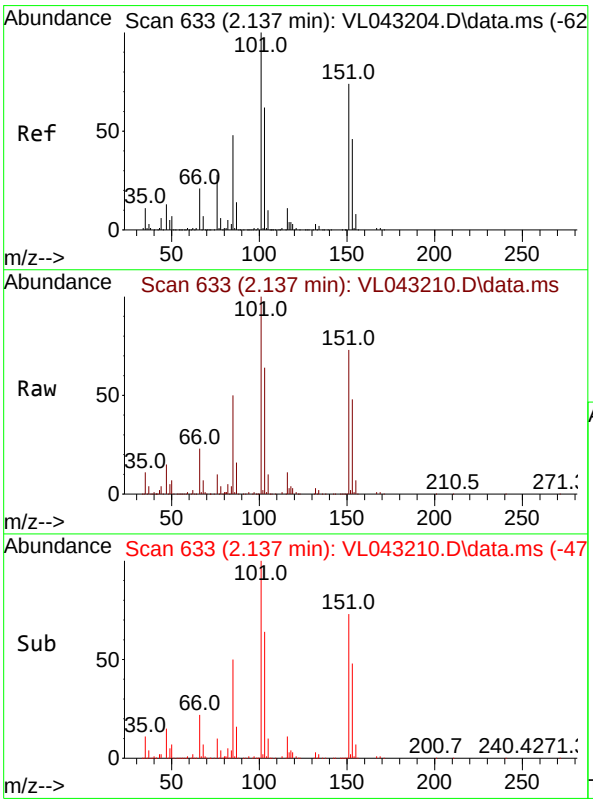
#11
Trichlorofluoromethane
Concen: 14.840 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:101 Resp: 200703

Ion	Ratio	Lower	Upper
101	100		
103	62.3	52.6	79.0

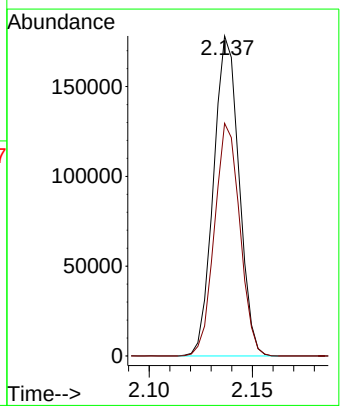


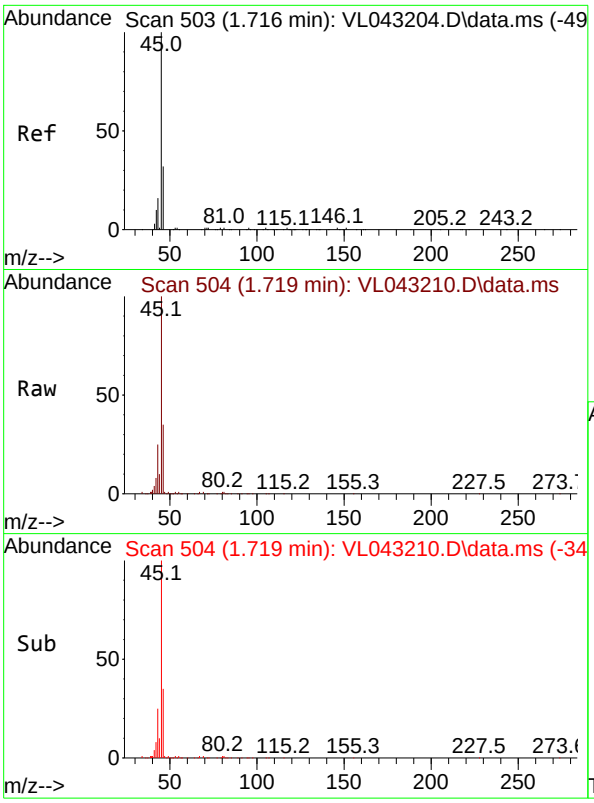


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.469 ppbv
RT: 2.137 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:101 Resp: 152772

Ion	Ratio	Lower	Upper
101	100		
151	72.3	59.2	88.8



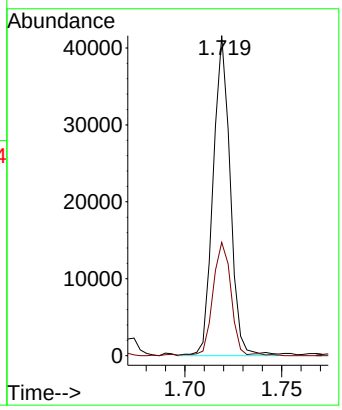


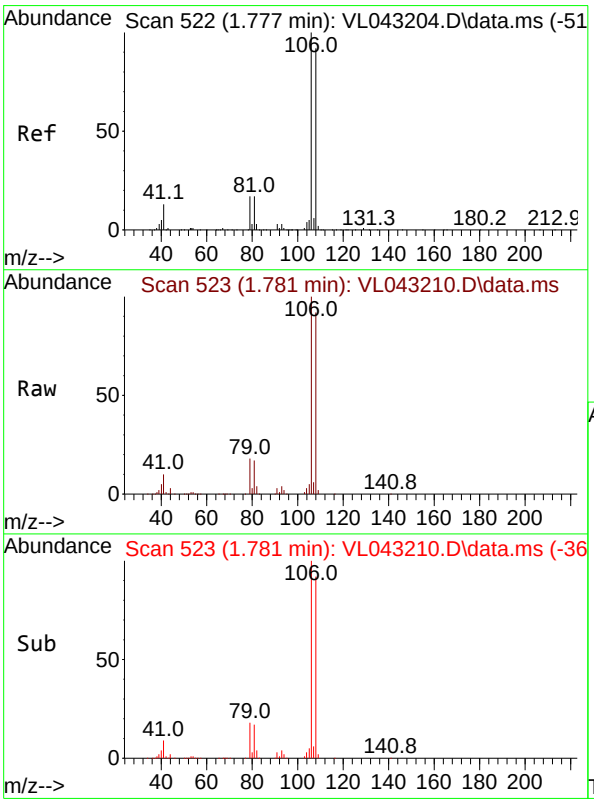
#13
Ethanol
Concen: 12.425 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 25468

Ion	Ratio	Lower	Upper
45	100		
46	37.9	15.0	59.8

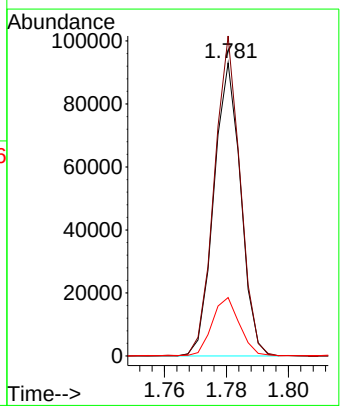


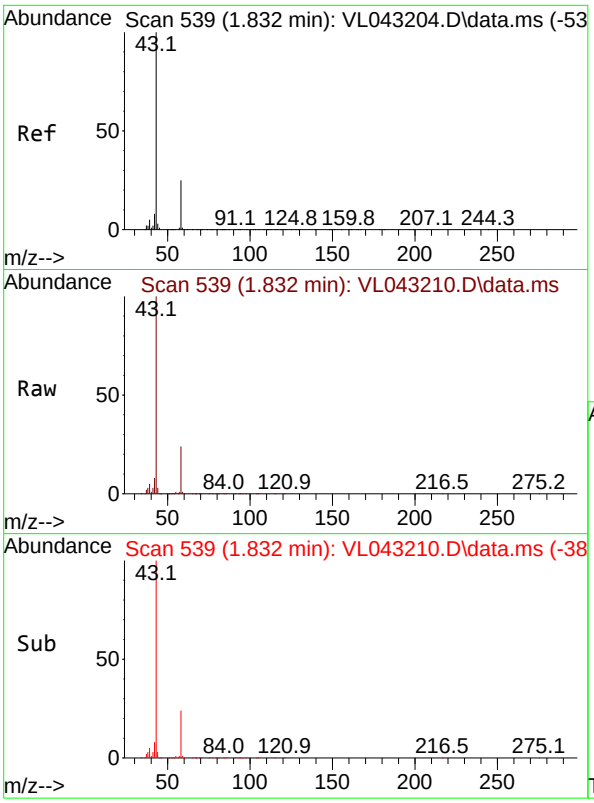


#14
Bromoethene
Concen: 13.789 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



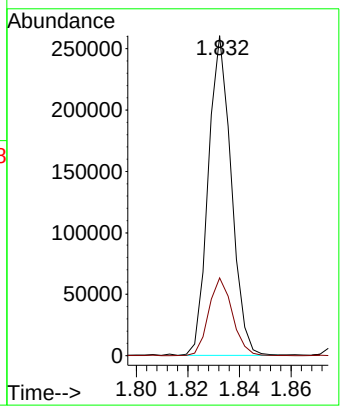


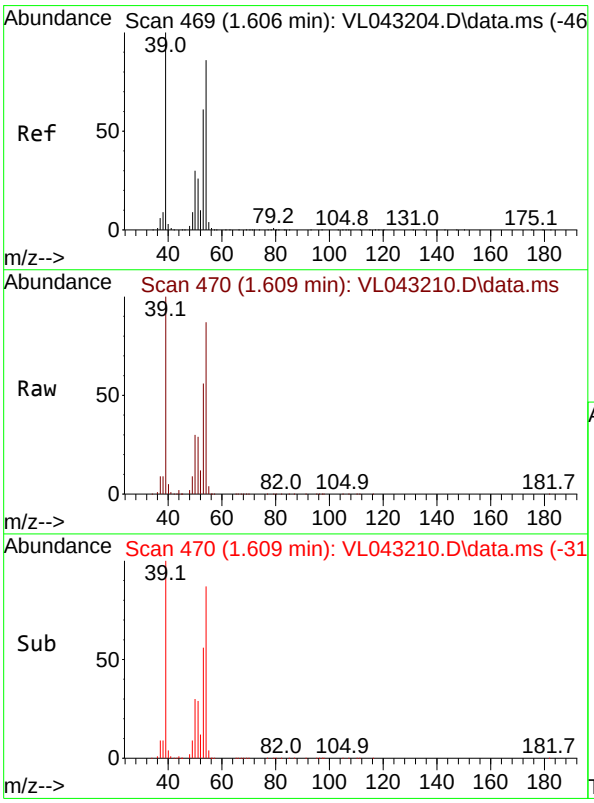
#15
Acetone
Concen: 11.712 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 161036

Ion	Ratio	Lower	Upper
43	100		
58	25.1	20.7	31.1

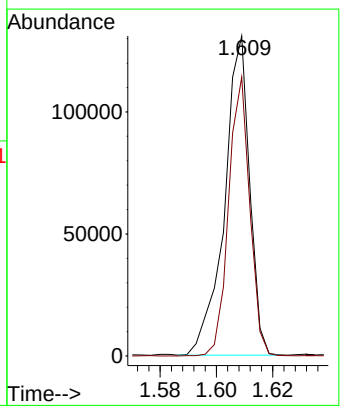


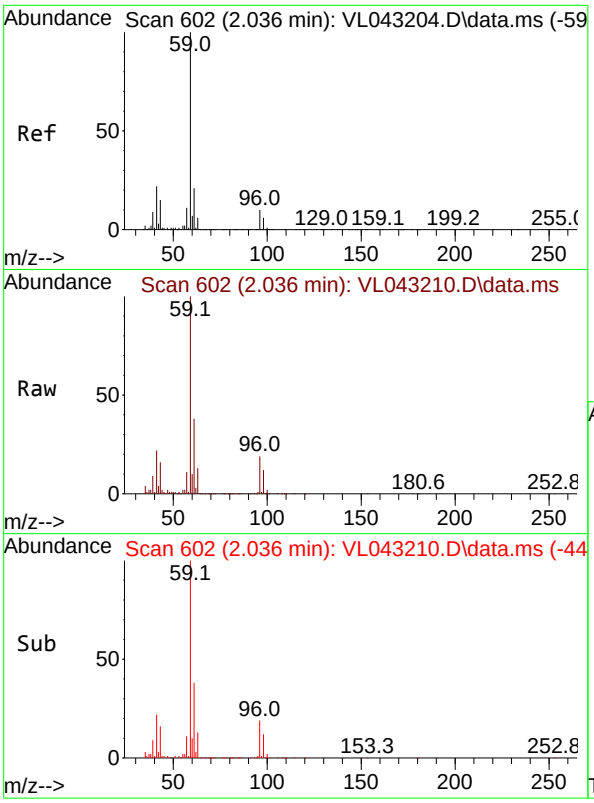


#16
1,3-Butadiene
Concen: 13.226 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 39 Resp: 81077

Ion	Ratio	Lower	Upper
39	100		
54	73.5	59.4	89.2



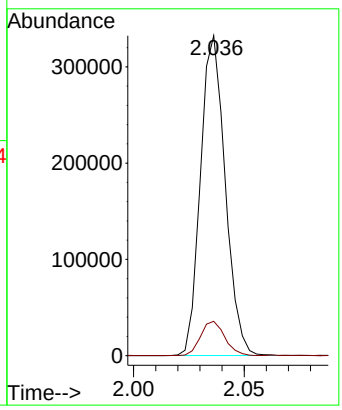


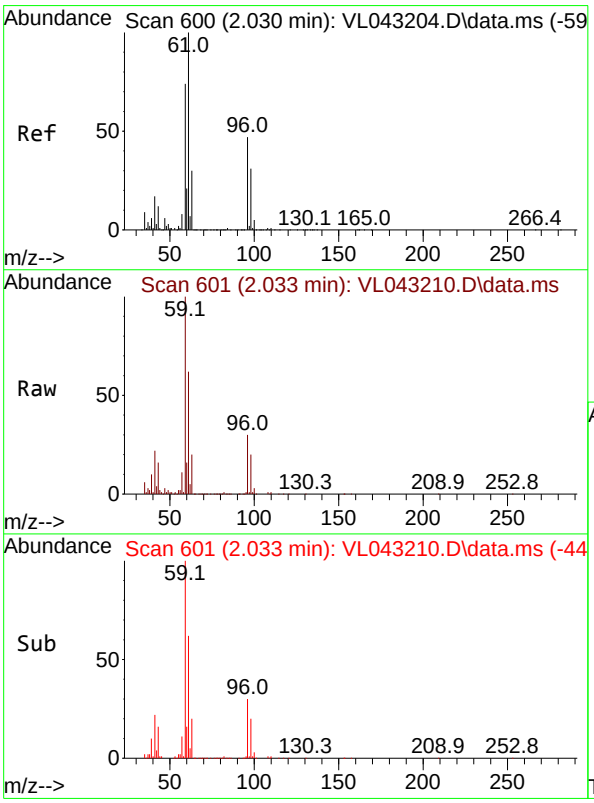
#17
tert-Butyl alcohol
Concen: 14.274 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 59 Resp: 257617

Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.0	13.4

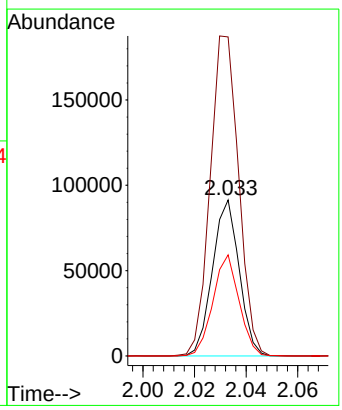


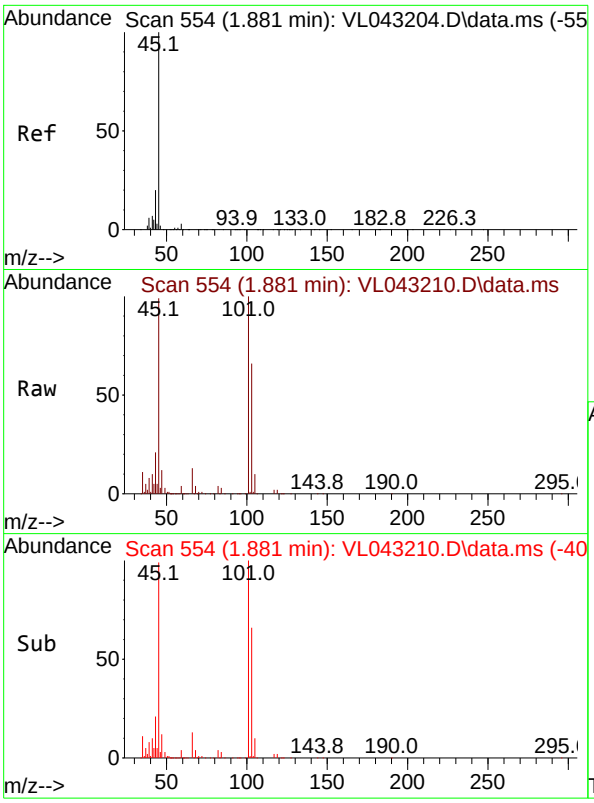


#18
1,1-Dichloroethene
Concen: 13.370 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



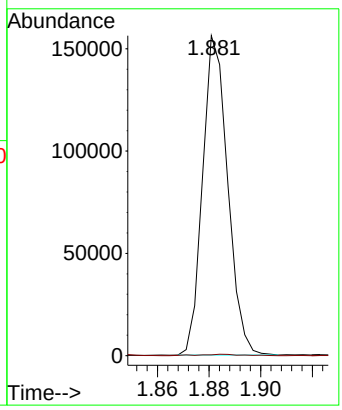


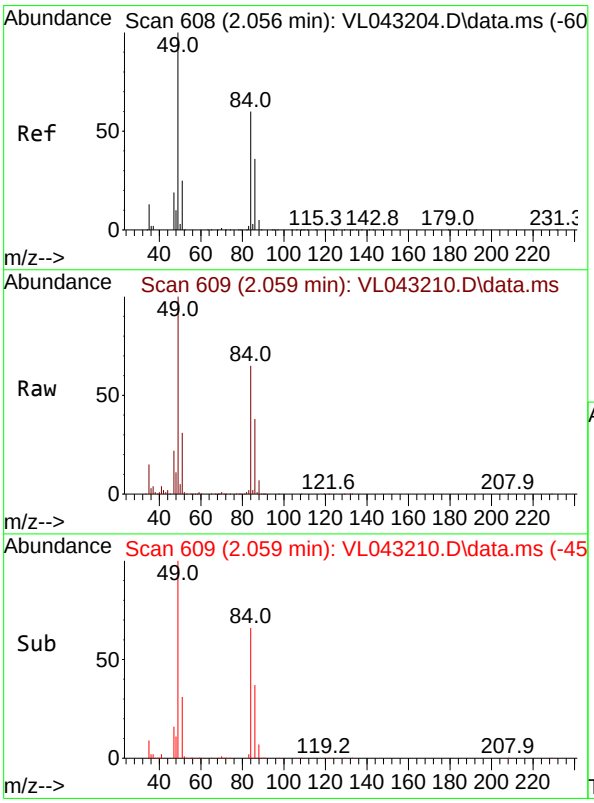
#19
Isopropyl Alcohol
Concen: 13.549 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 105271

Ion	Ratio	Lower	Upper
45	100		
58	38.5	31.3	46.9

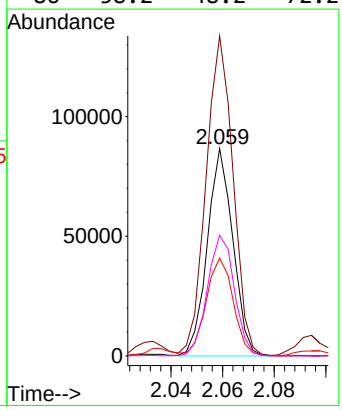


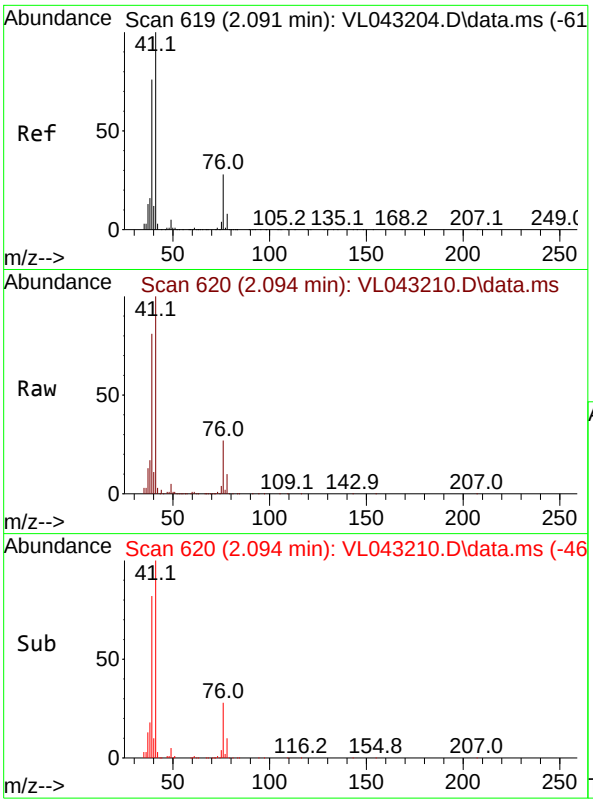


#20
Methylene Chloride
Concen: 15.164 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



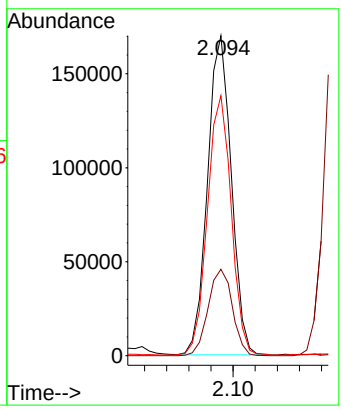


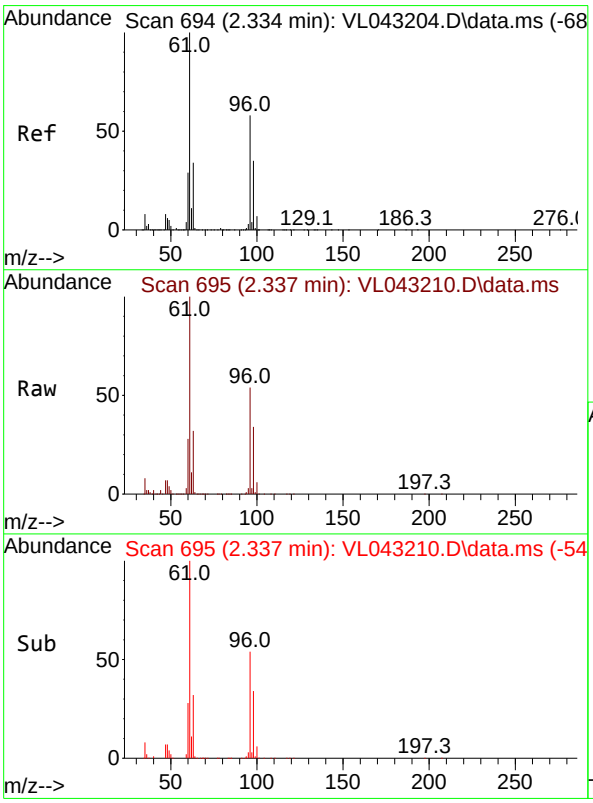
#21
Allyl Chloride
Concen: 13.724 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

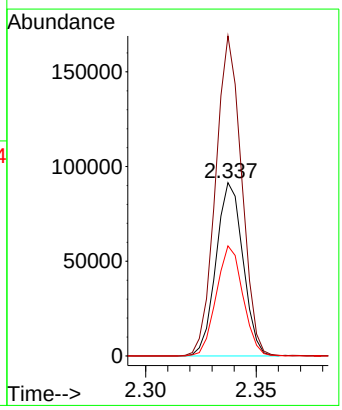


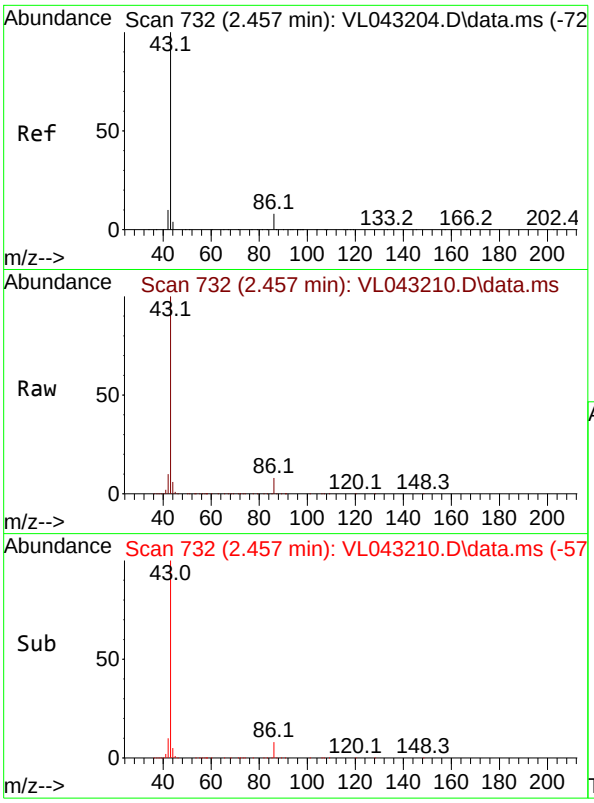


#22
trans-1,2-Dichloroethene
Concen: 13.772 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



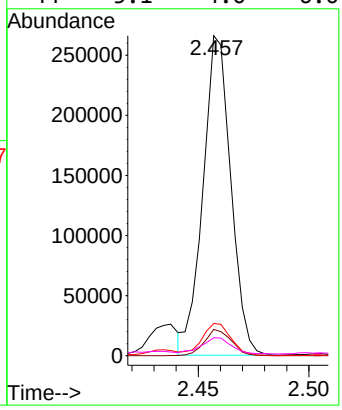


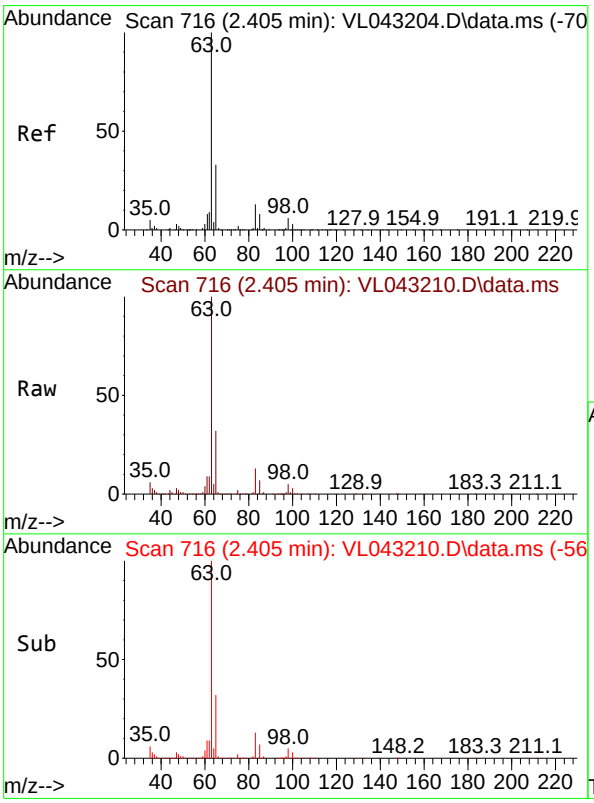
#23
Vinyl Acetate
Concen: 13.995 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

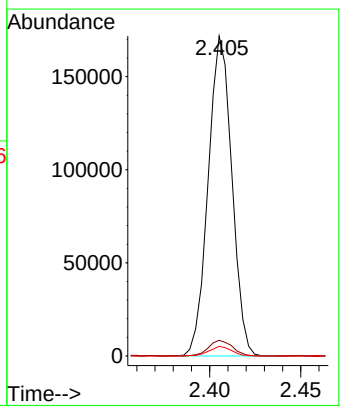


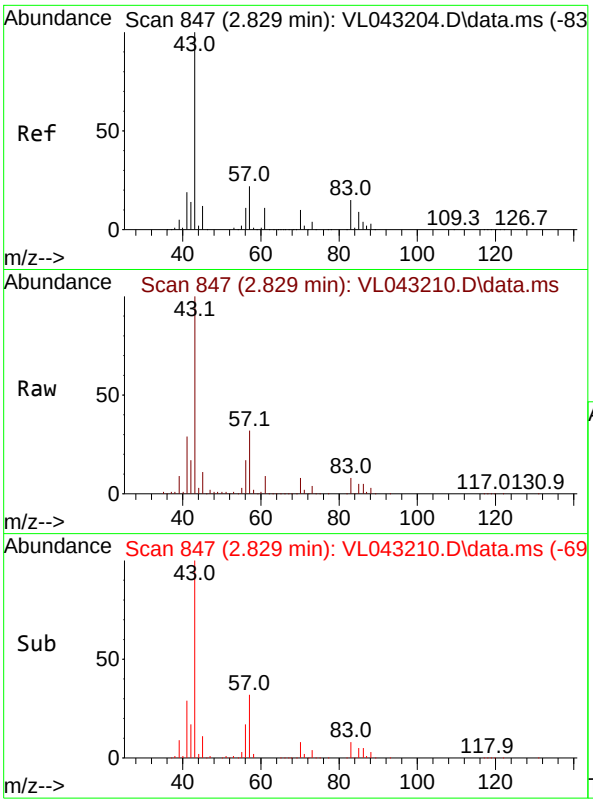


#24
1,1-Dichloroethane
Concen: 14.292 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



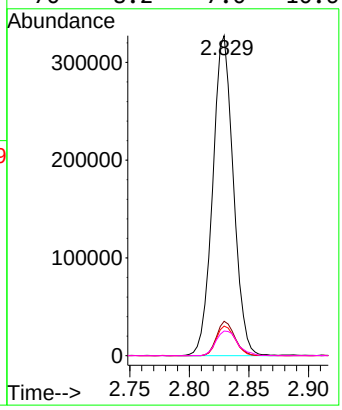


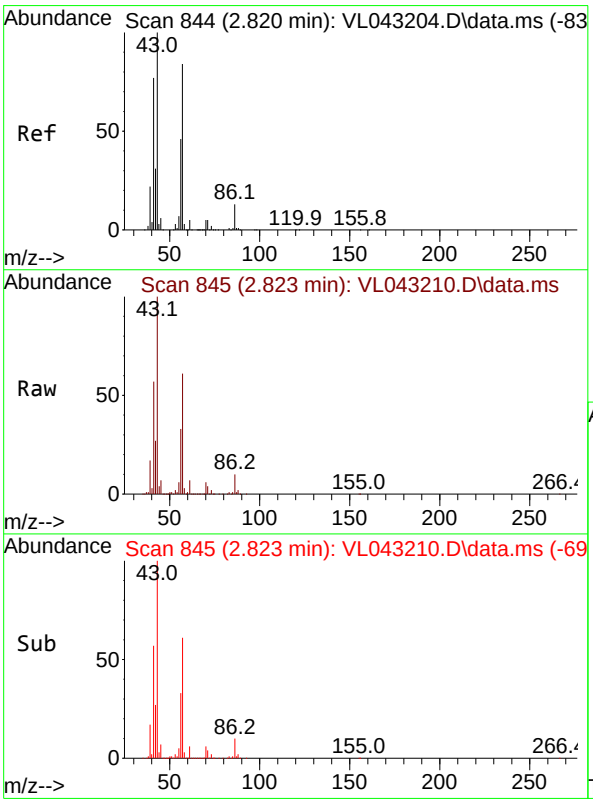
#25
Ethyl Acetate
Concen: 13.265 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

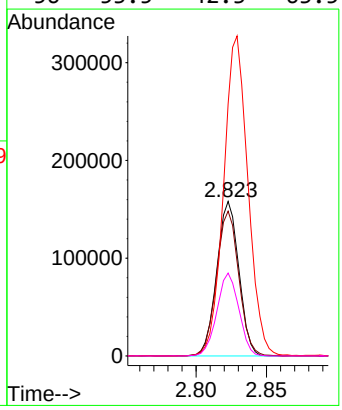


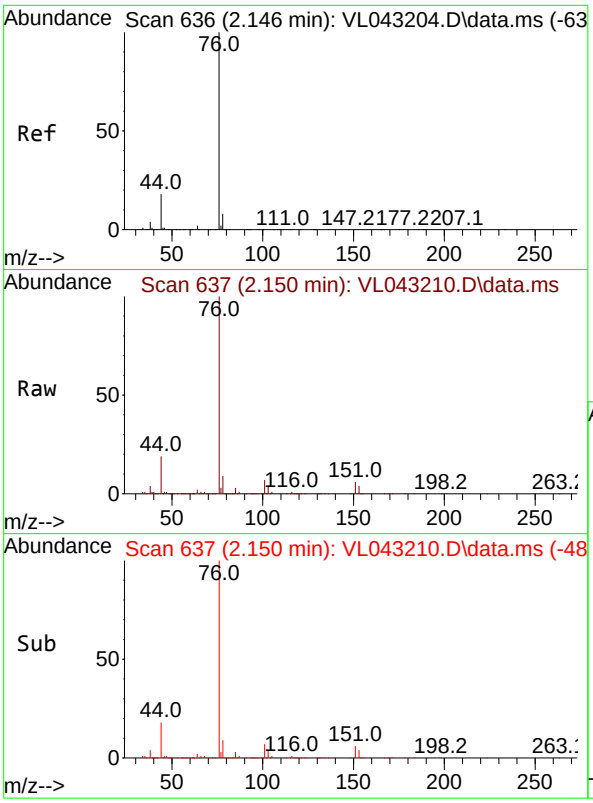


#26
Hexane
Concen: 13.252 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



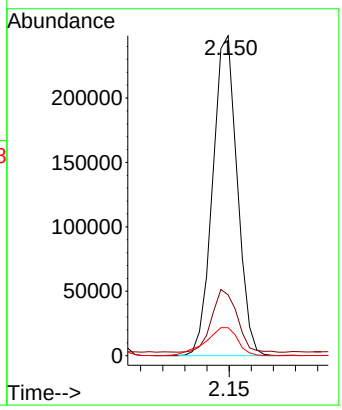


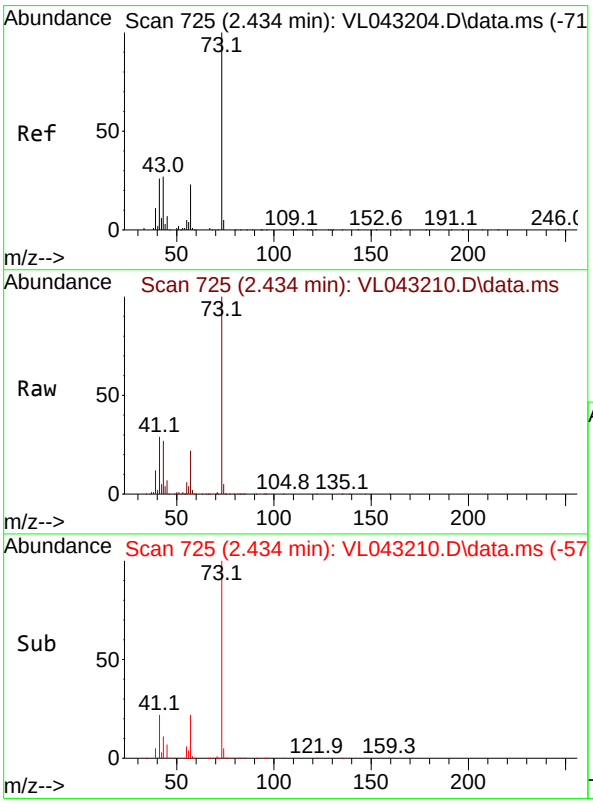
#27
Carbon Disulfide
Concen: 14.435 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

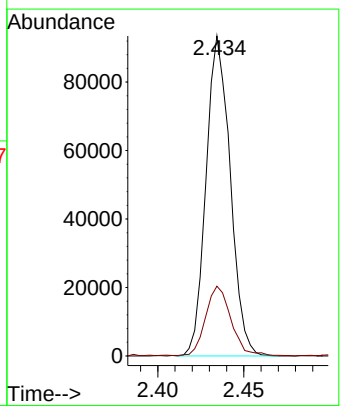


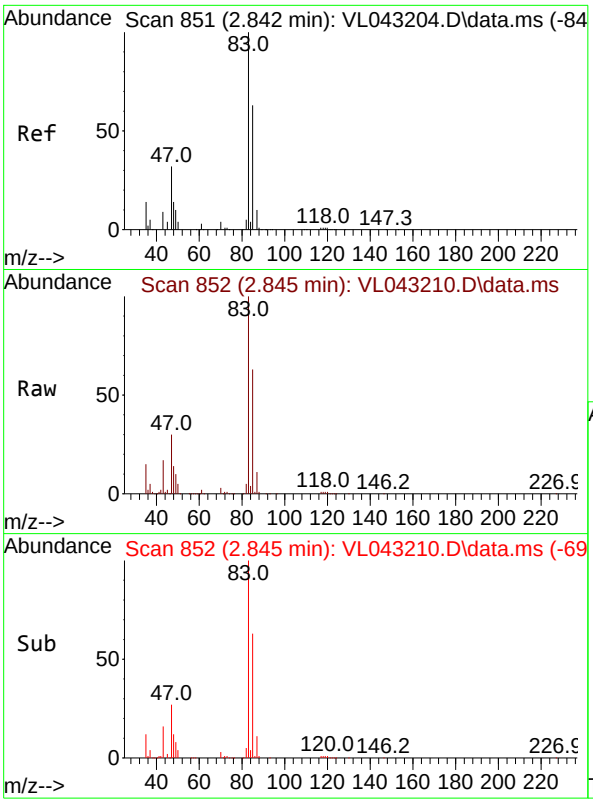


#28
Methyl tert-Butyl Ether
Concen: 14.279 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 73 Resp: 91132

Ion	Ratio	Lower	Upper
73	100		
57	23.5	19.8	29.8



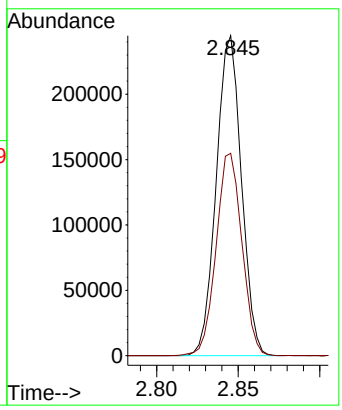


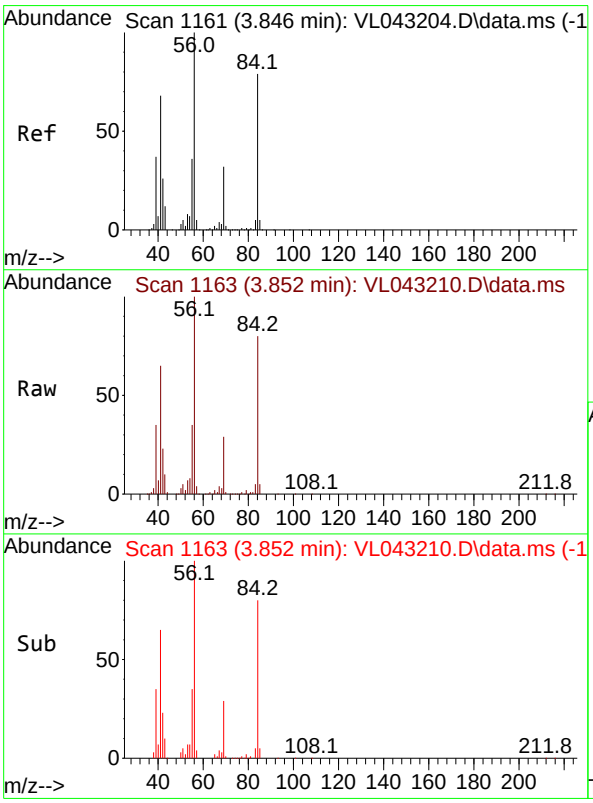
#29
Chloroform
Concen: 14.221 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 262803

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.5	75.7

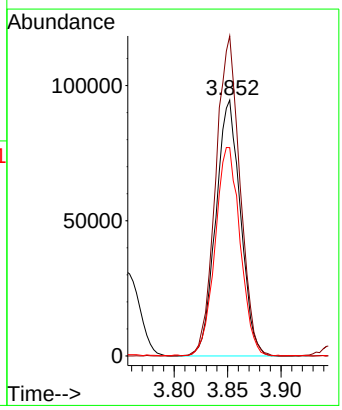


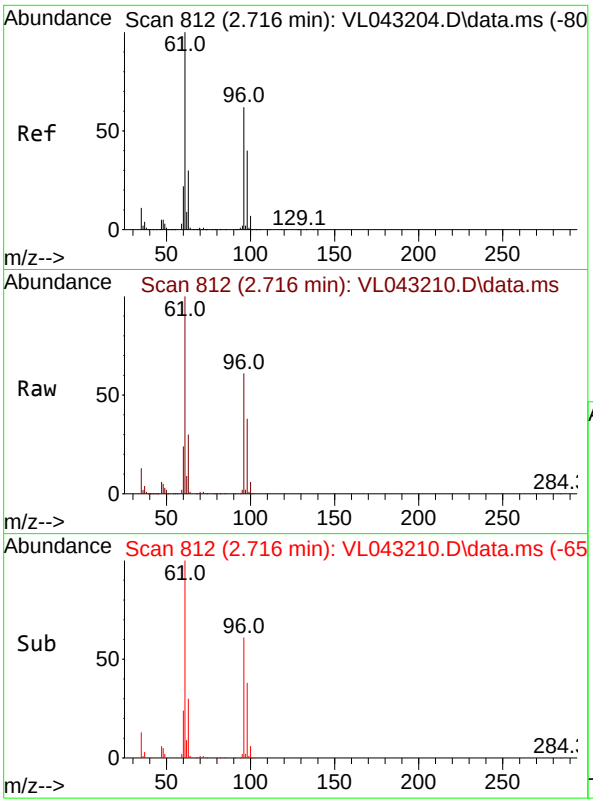


#30
Cyclohexane
Concen: 13.946 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



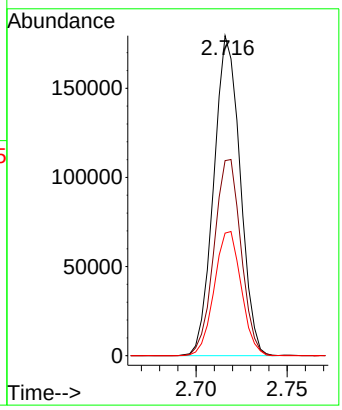


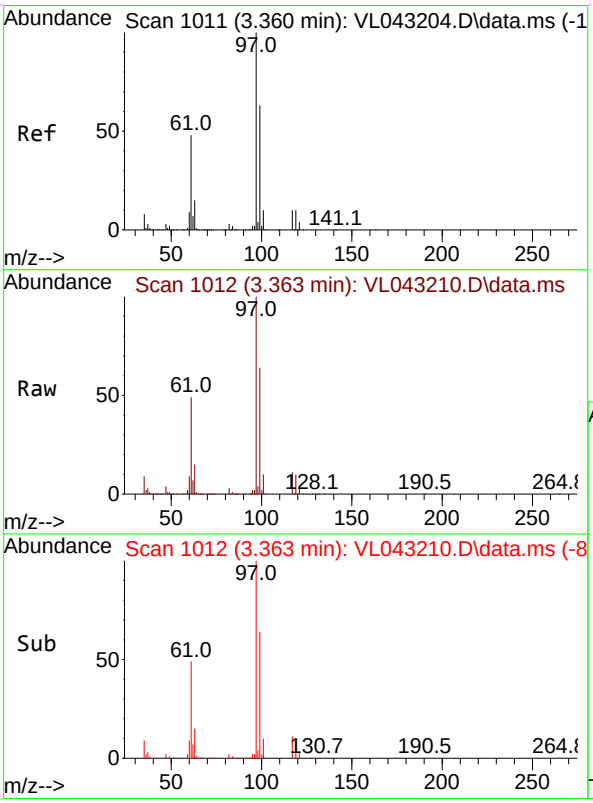
#31
cis-1,2-Dichloroethene
Concen: 13.978 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

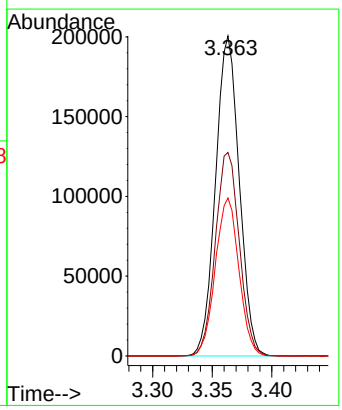


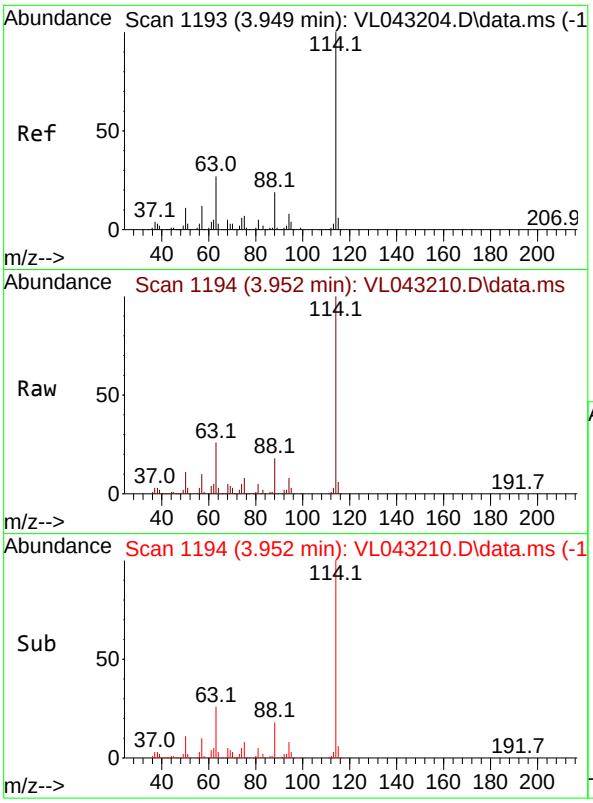


#32
1,1,1-Trichloroethane
Concen: 13.930 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



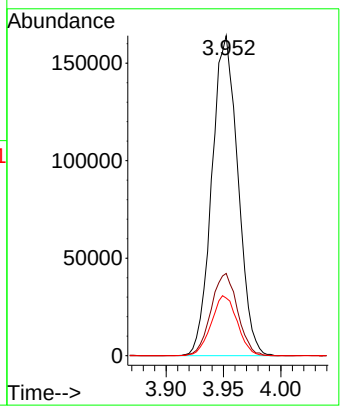


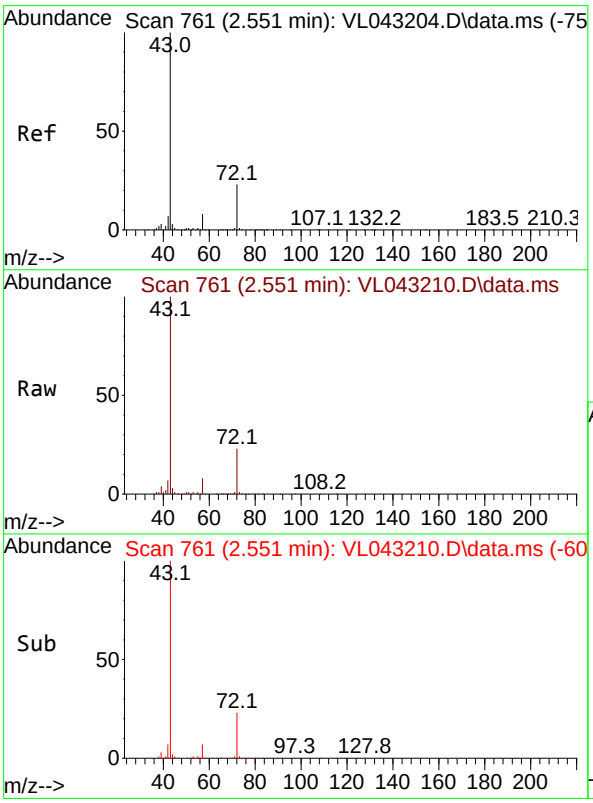
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

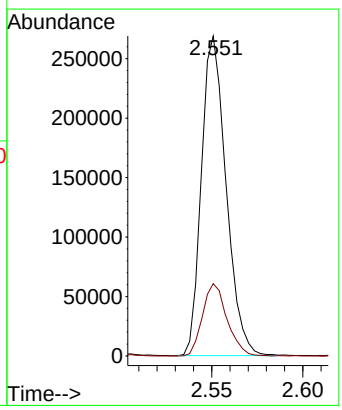


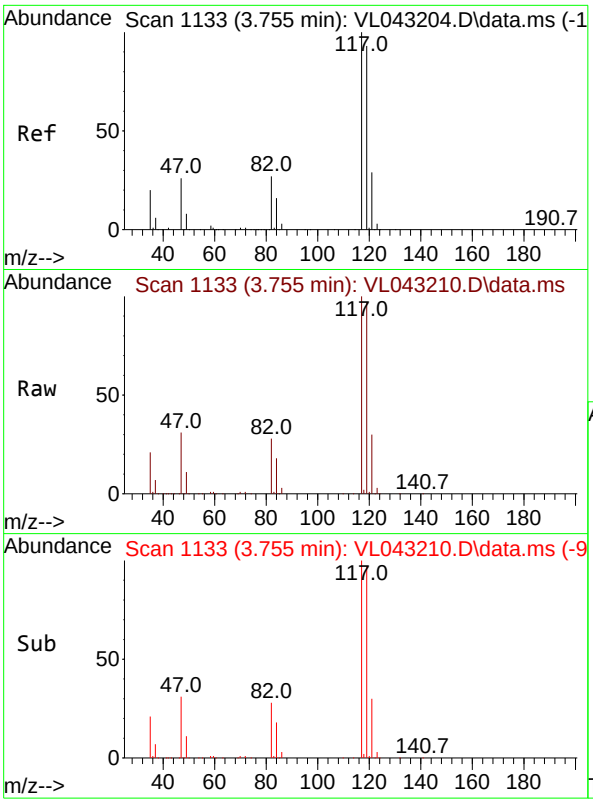


#34
2-Butanone
Concen: 13.914 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 253855

Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.1	27.1



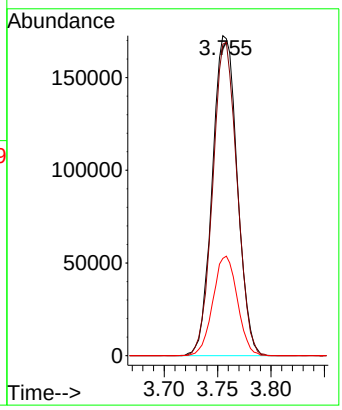


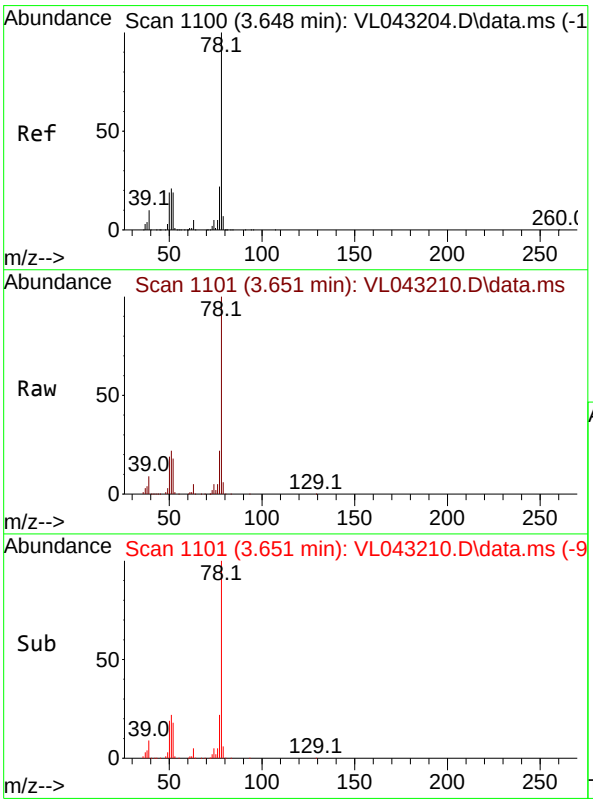
#35
Carbon Tetrachloride
Concen: 14.250 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

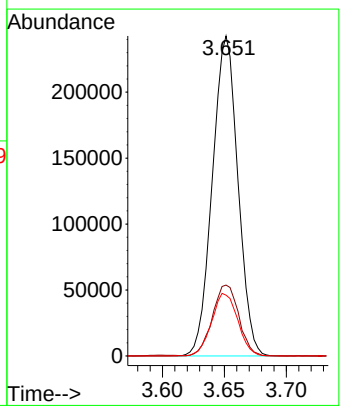


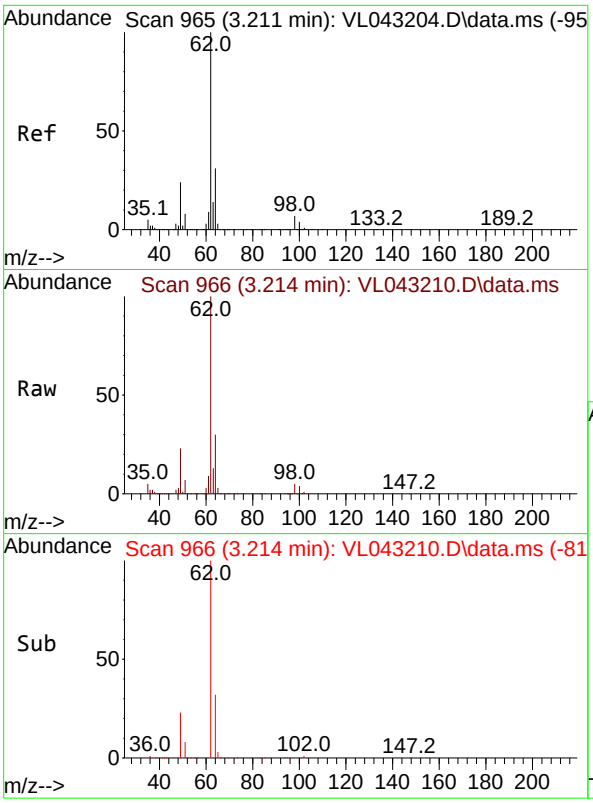


#36
Benzene
Concen: 14.096 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



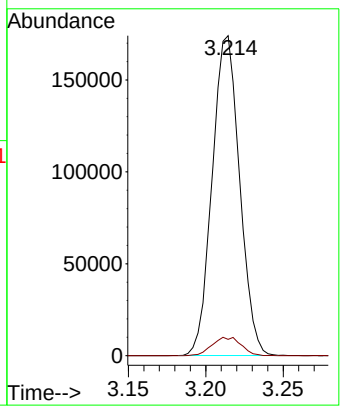


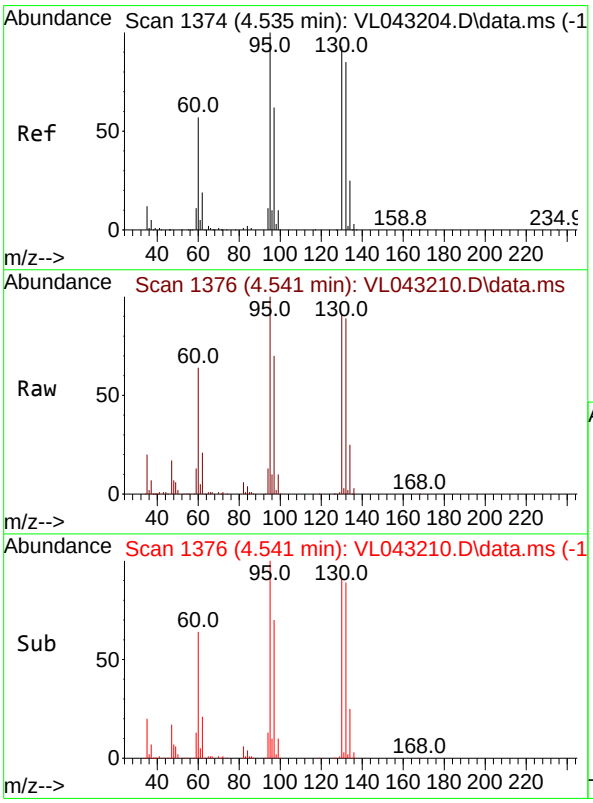
#37
1,2-Dichloroethane
Concen: 14.798 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 214248

Ion	Ratio	Lower	Upper
62	100		
98	6.1	5.5	8.3

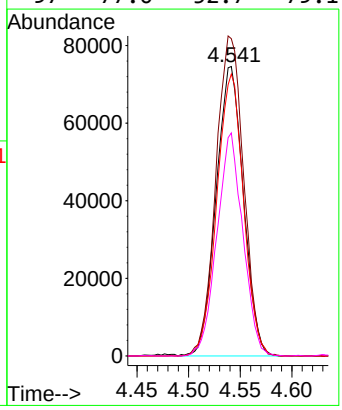


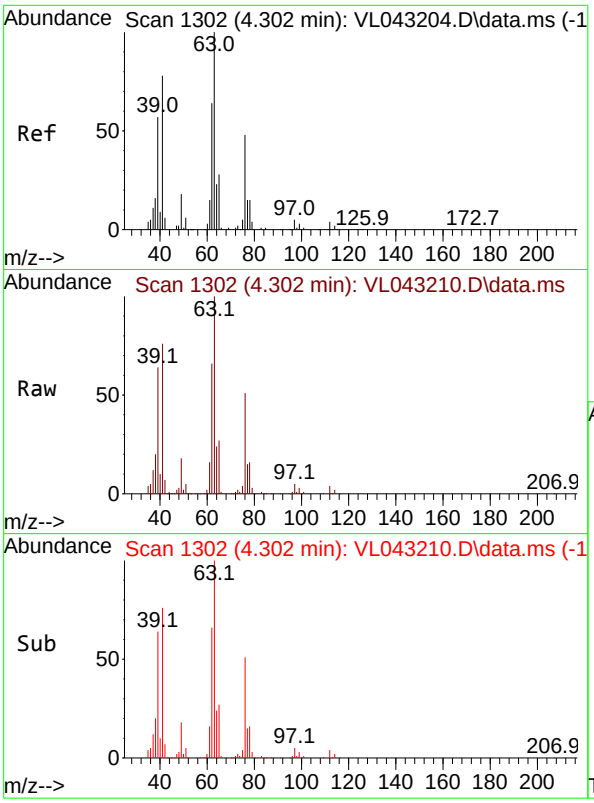


#38
Trichloroethene
Concen: 14.123 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



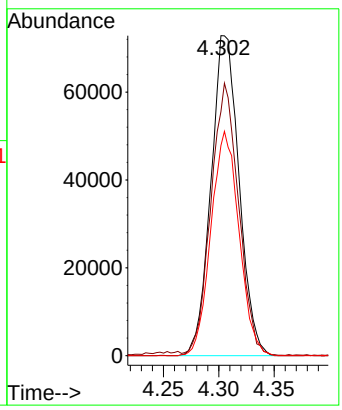


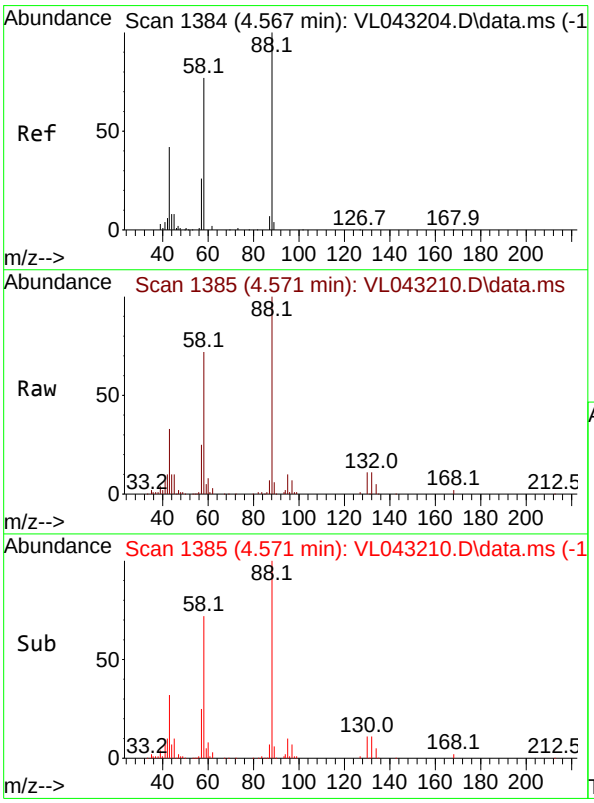
#39
1,2-Dichloropropane
Concen: 14.206 ppbv
RT: 4.302 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

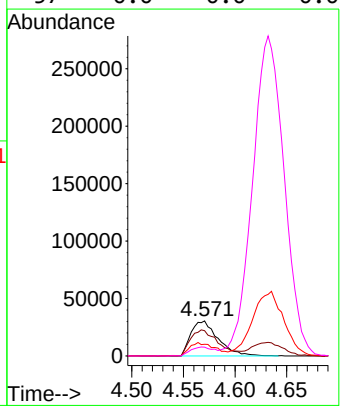


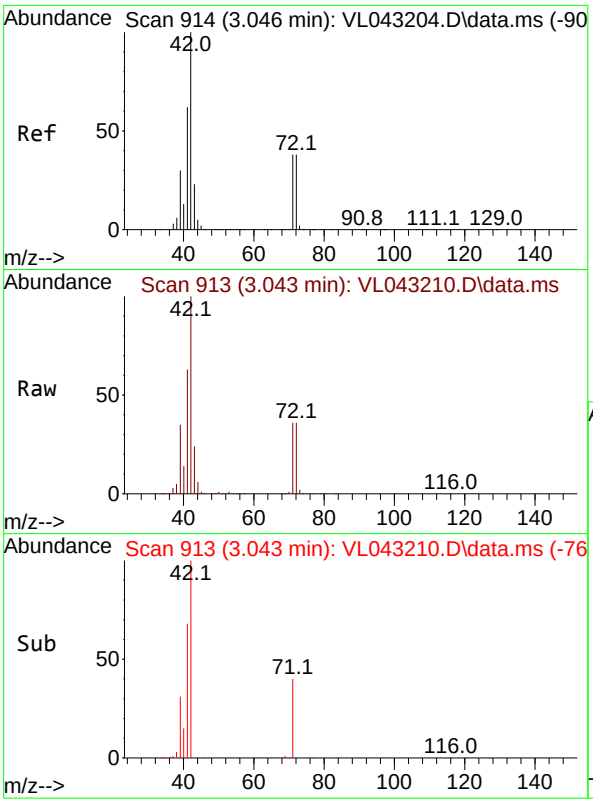


#40
1,4-Dioxane
Concen: 13.728 ppbv
RT: 4.571 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



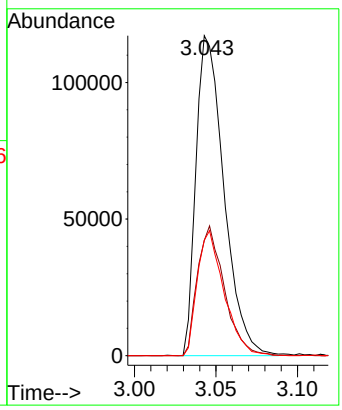


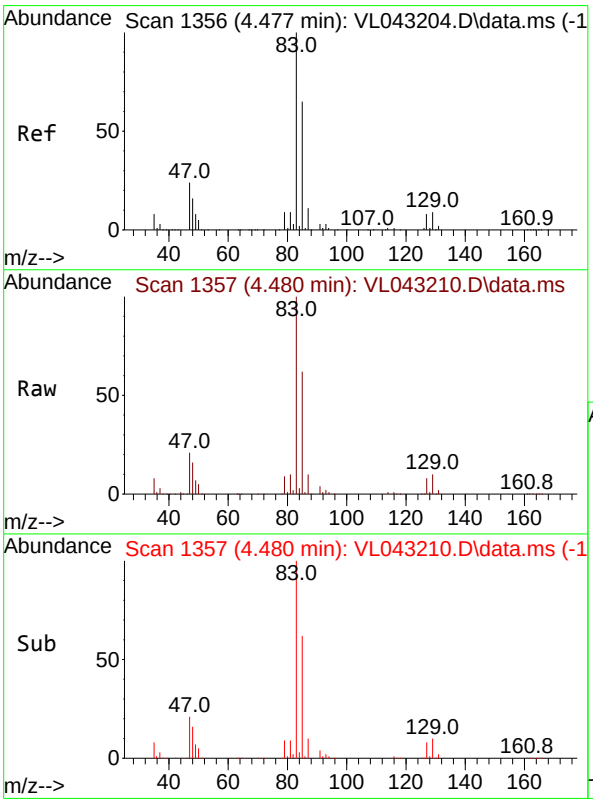
#41
Tetrahydrofuran
Concen: 13.868 ppbv
RT: 3.043 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

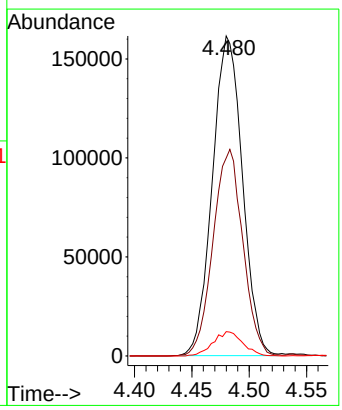


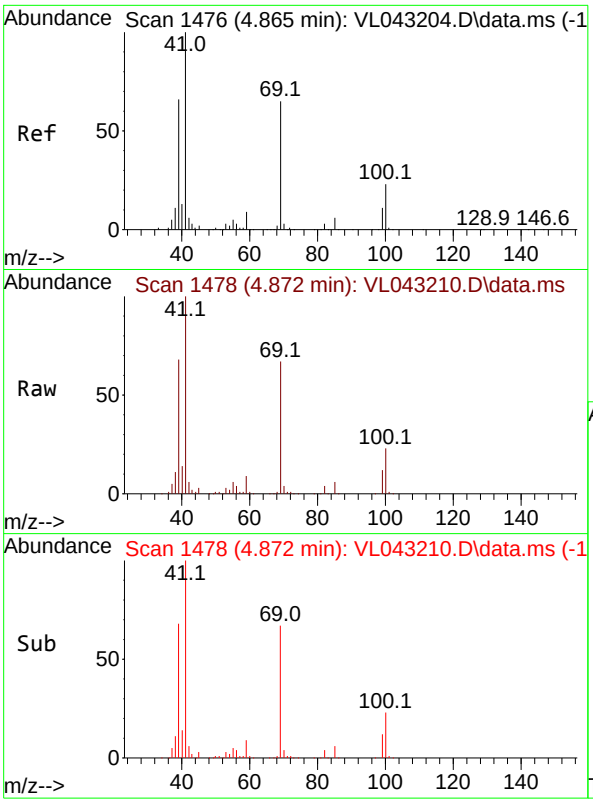


#42
Bromodichloromethane
Concen: 14.721 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



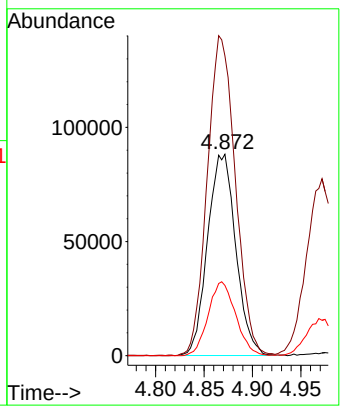


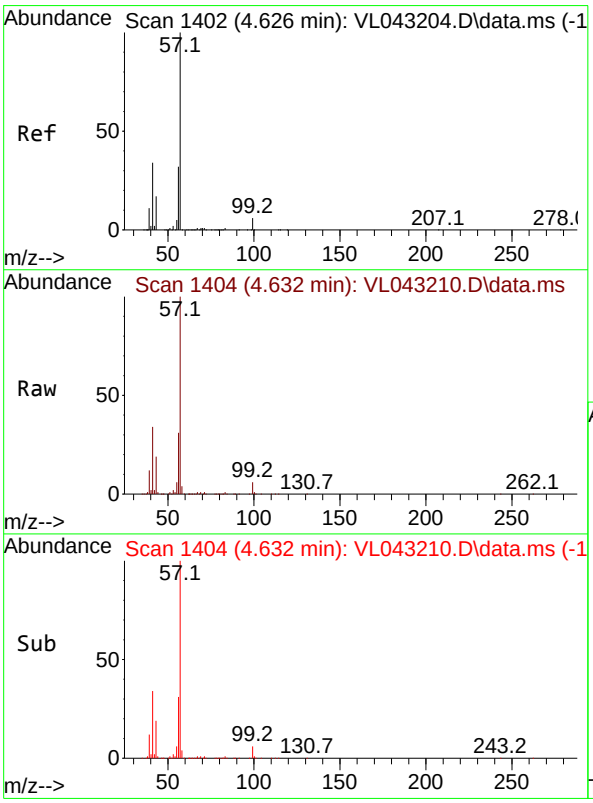
#43
Methyl Methacrylate
Concen: 13.633 ppbv
RT: 4.872 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

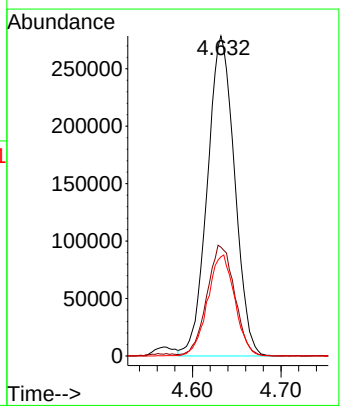


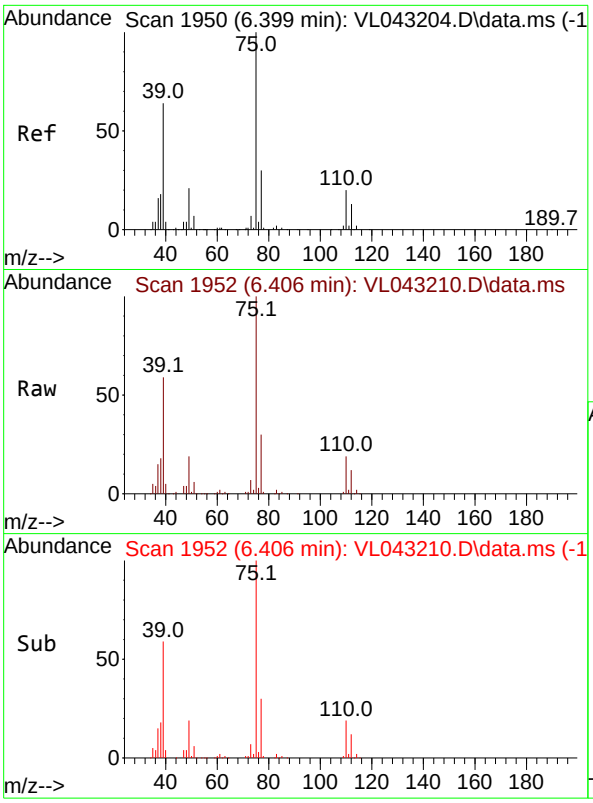


#44
2,2,4-Trimethylpentane
Concen: 14.014 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



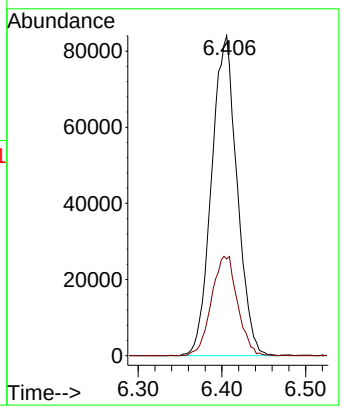


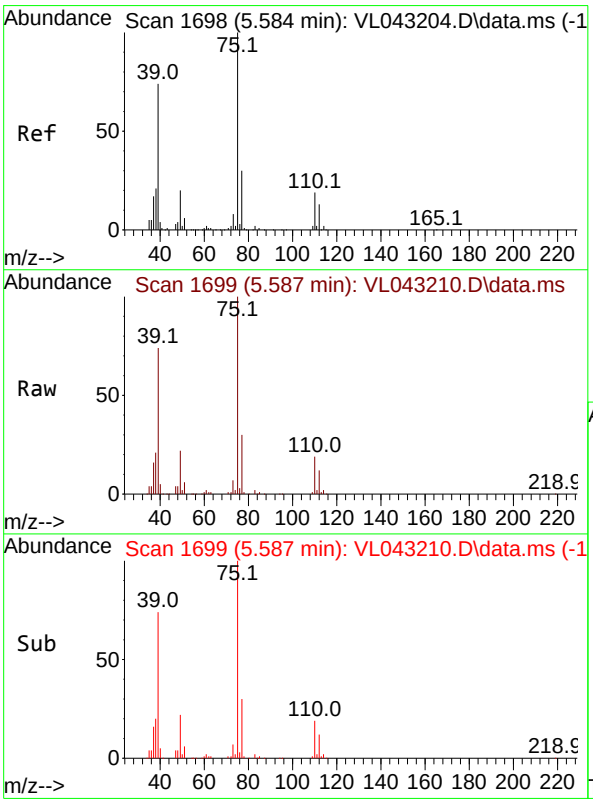
#45
t-1,3-Dichloropropene
Concen: 14.508 ppbv
RT: 6.406 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 75 Resp: 177678

Ion	Ratio	Lower	Upper
75	100		
77	30.2	24.3	36.5

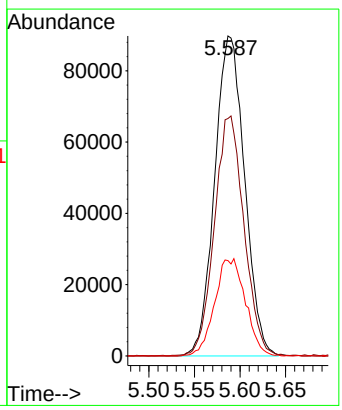


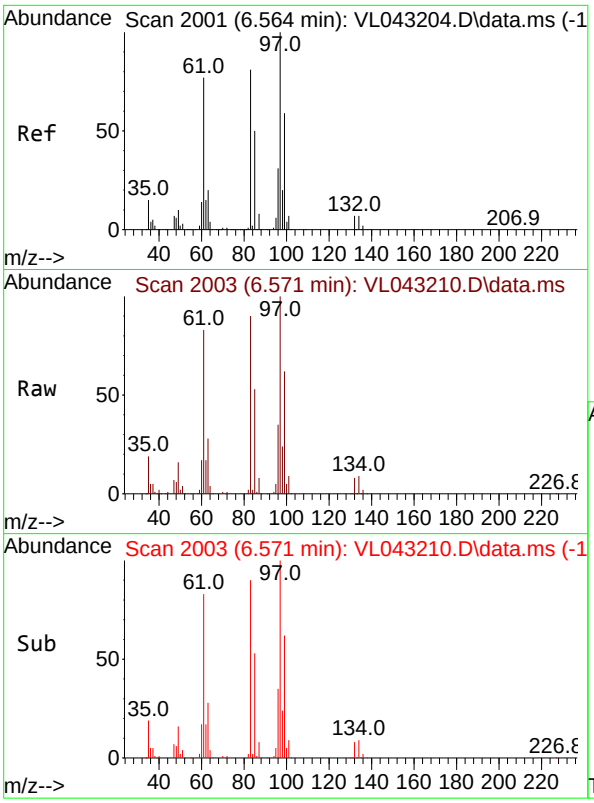


#46
cis-1,3-Dichloropropene
Concen: 14.270 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



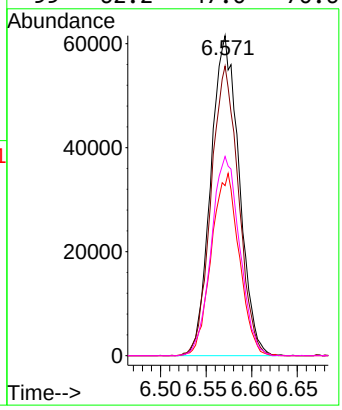


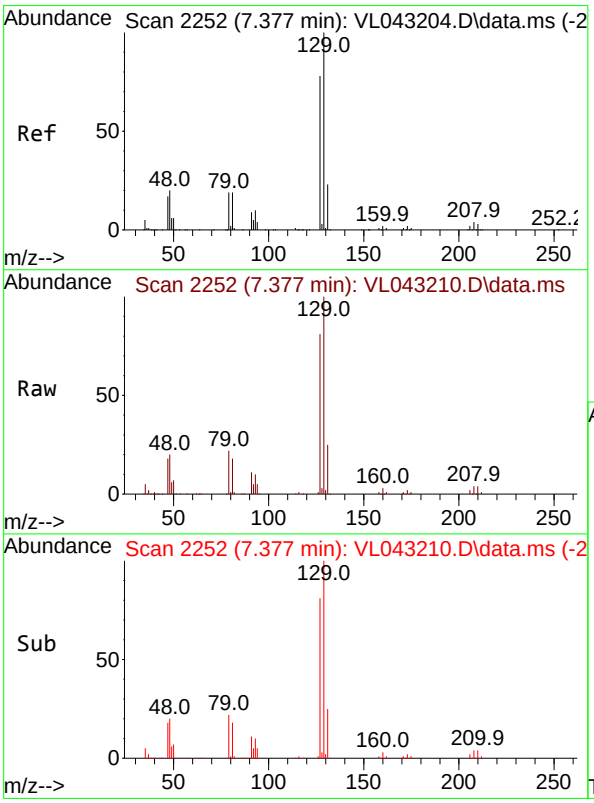
#47
1,1,2-Trichloroethane
Concen: 13.738 ppbv
RT: 6.571 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

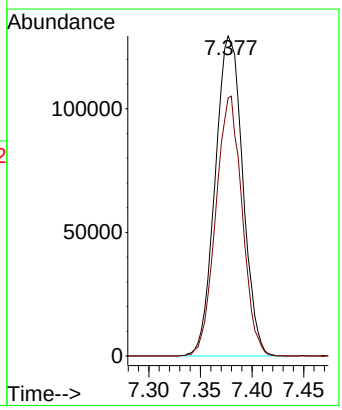


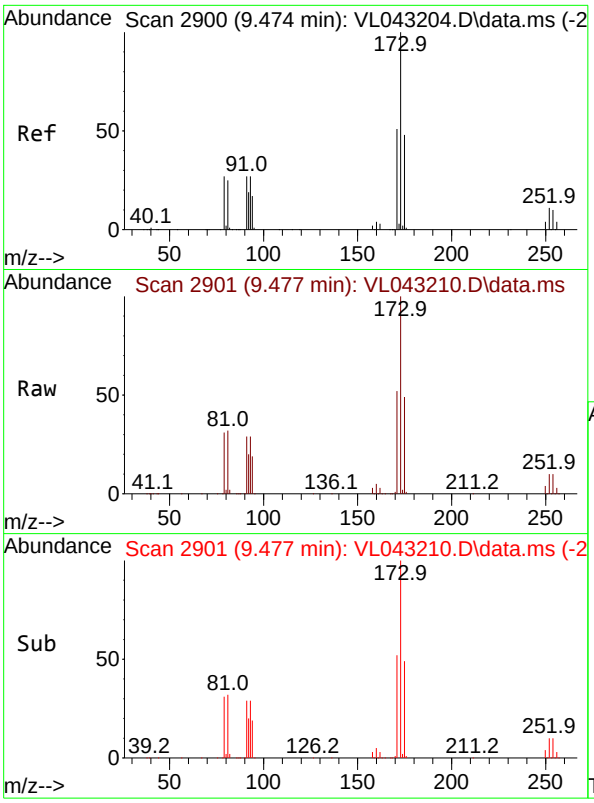


#48
Dibromochloromethane
Concen: 14.564 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:129 Resp: 240736

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.3	117.9



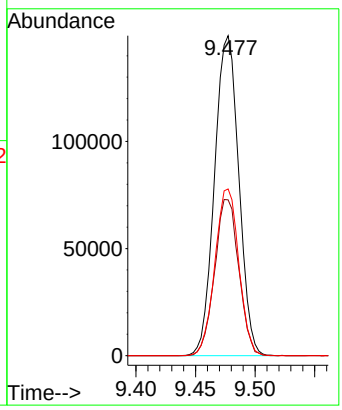


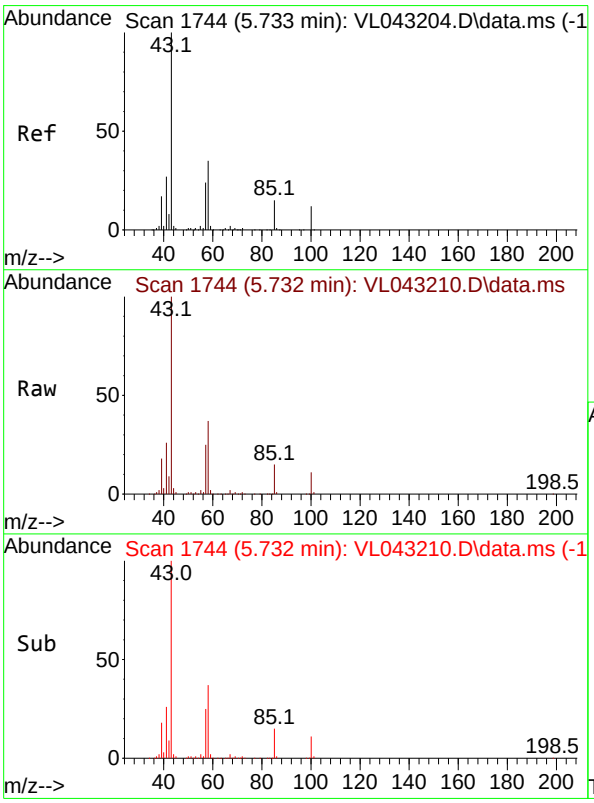
#49
Bromoform
Concen: 14.434 ppbv
RT: 9.477 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

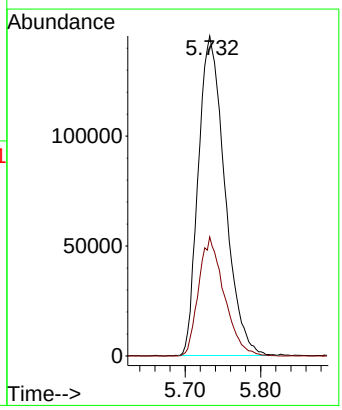


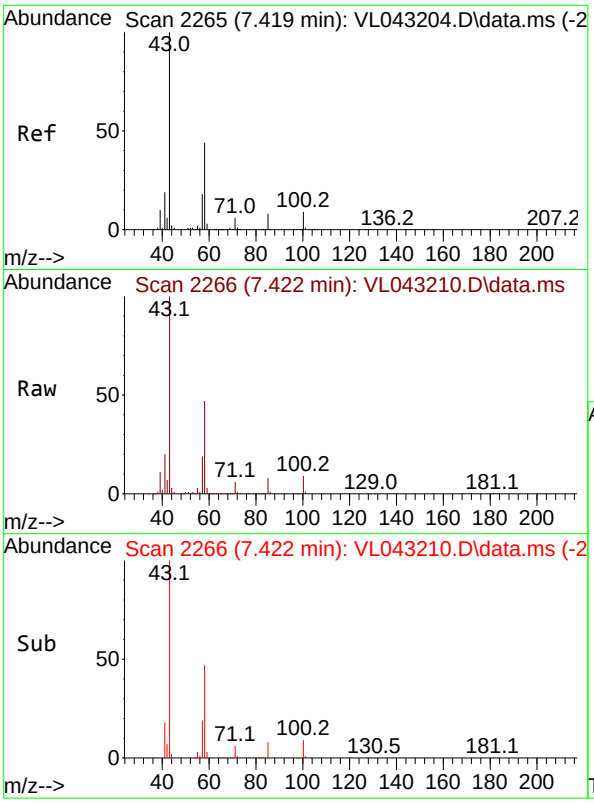


#50
4-Methyl-2-Pentanone
Concen: 13.790 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 354421

Ion	Ratio	Lower	Upper
43	100		
58	35.9	28.4	42.6



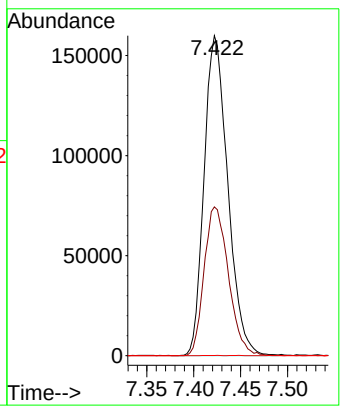


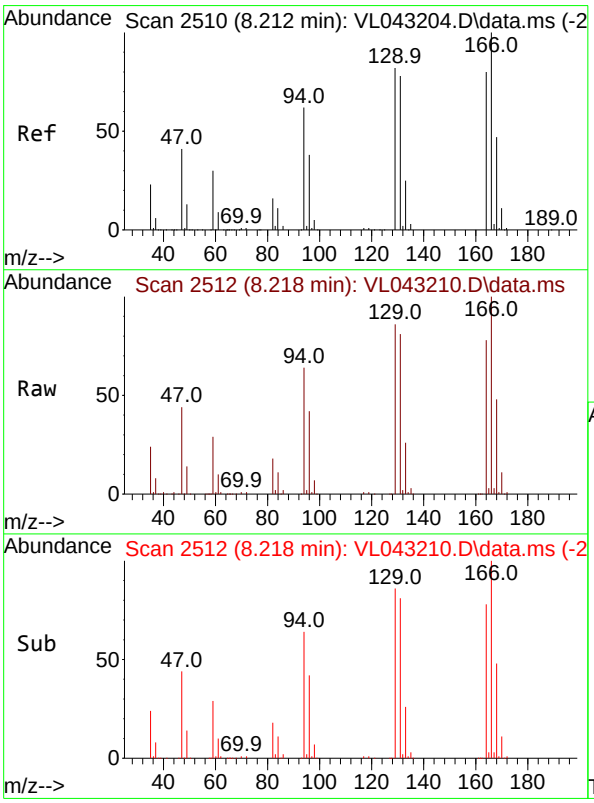
#51
2-Hexanone
Concen: 14.067 ppbv
RT: 7.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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#

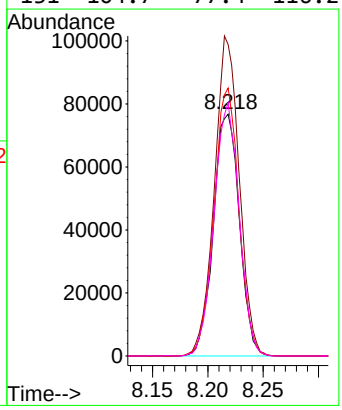


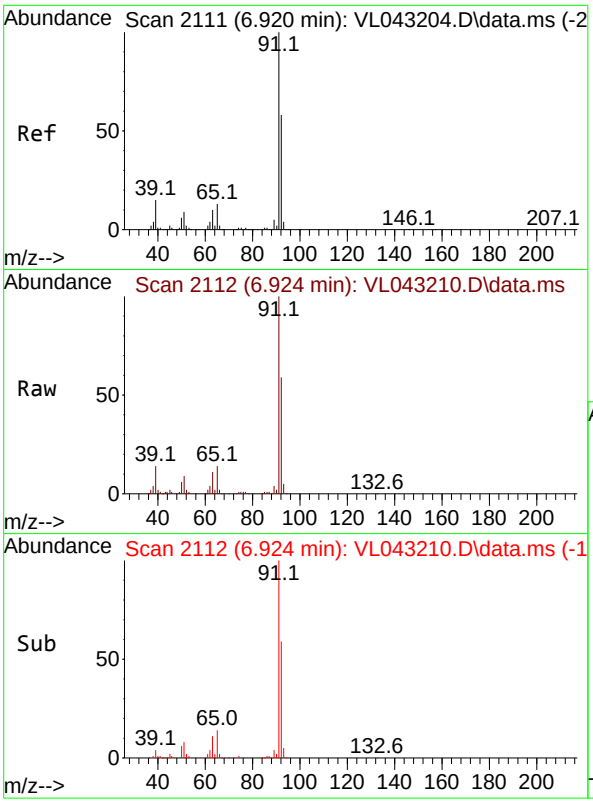


#52
Tetrachloroethene
Concen: 13.591 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



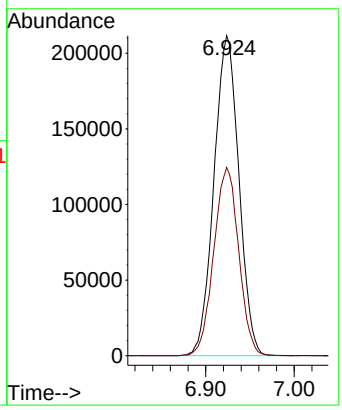


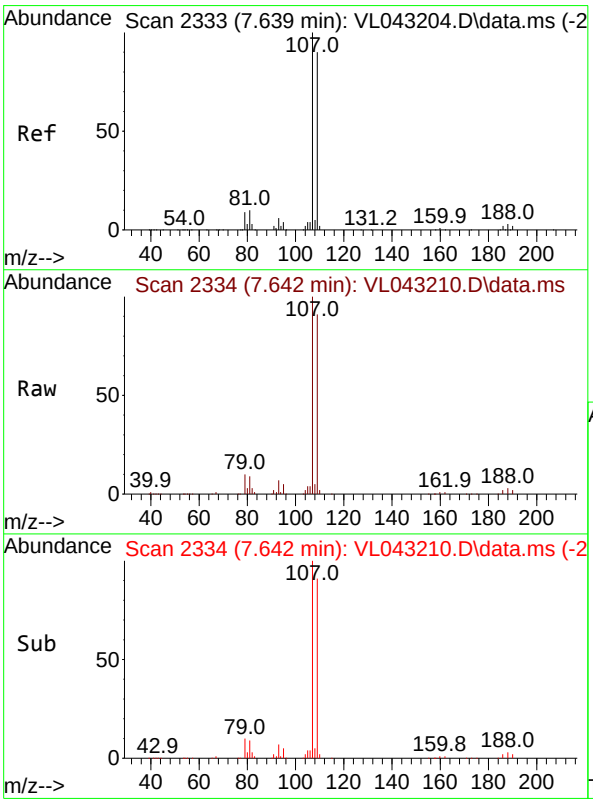
#53
Toluene
Concen: 14.050 ppbv
RT: 6.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 414411

Ion	Ratio	Lower	Upper
91	100		
92	58.8	47.4	71.0

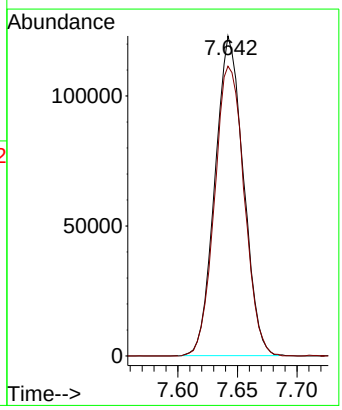


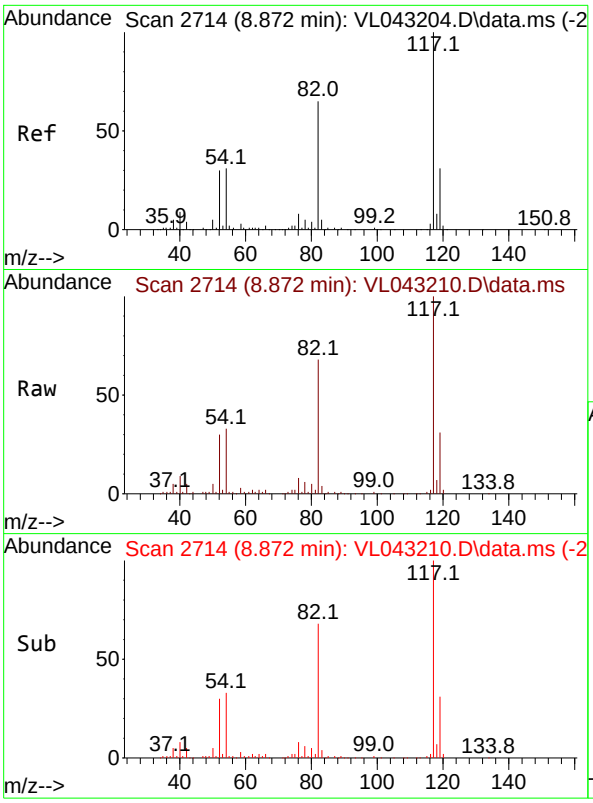


#54
1,2-Dibromoethane
Concen: 14.413 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:107 Resp: 203913

Ion	Ratio	Lower	Upper
107	100		
109	90.6	72.1	108.1



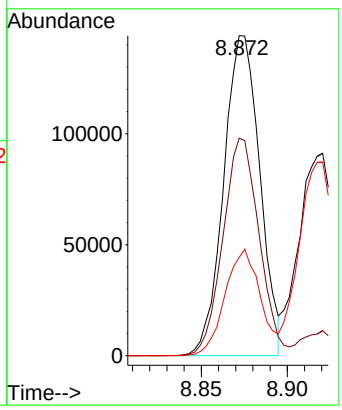


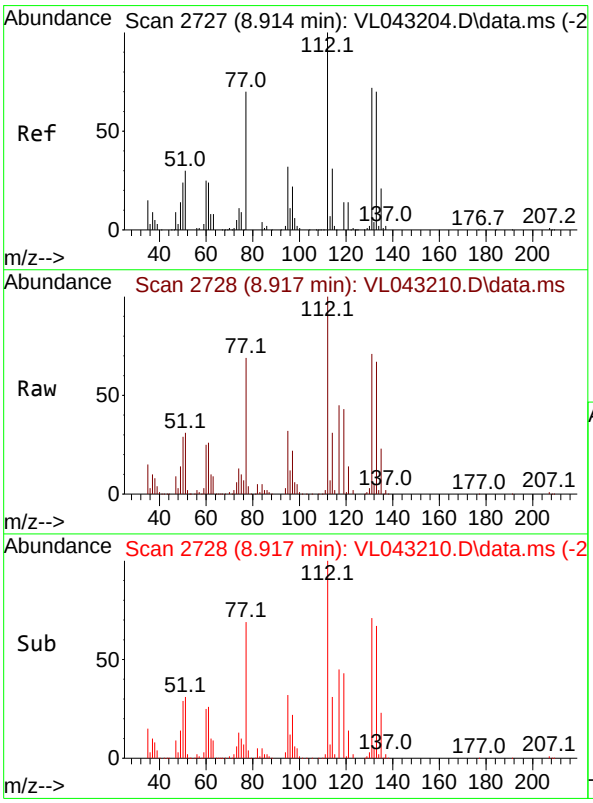
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

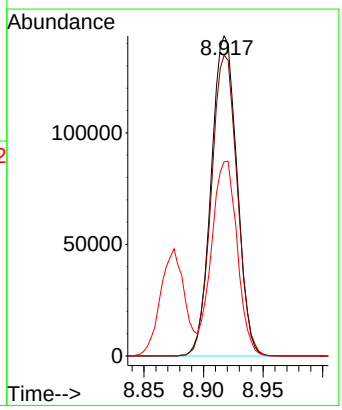


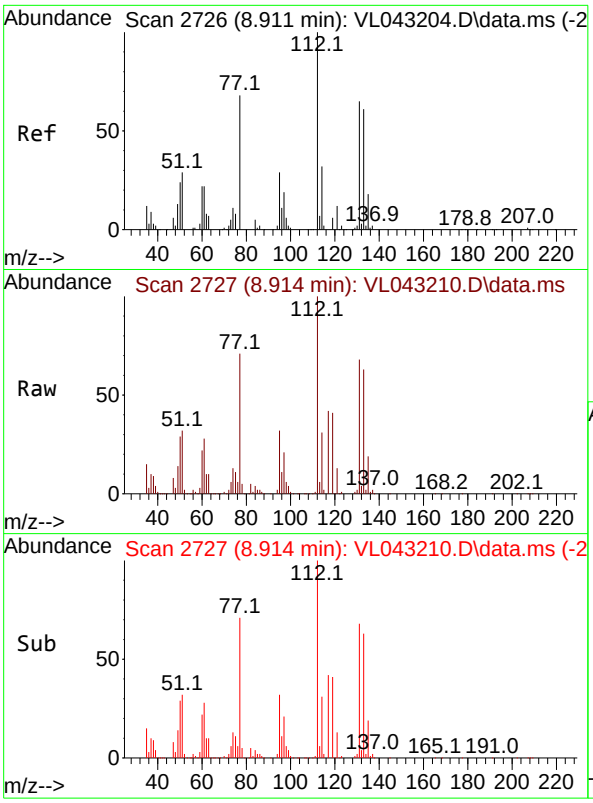


#56
1,1,1,2-Tetrachloroethane
Concen: 13.827 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



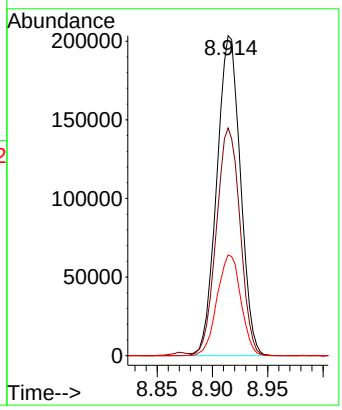


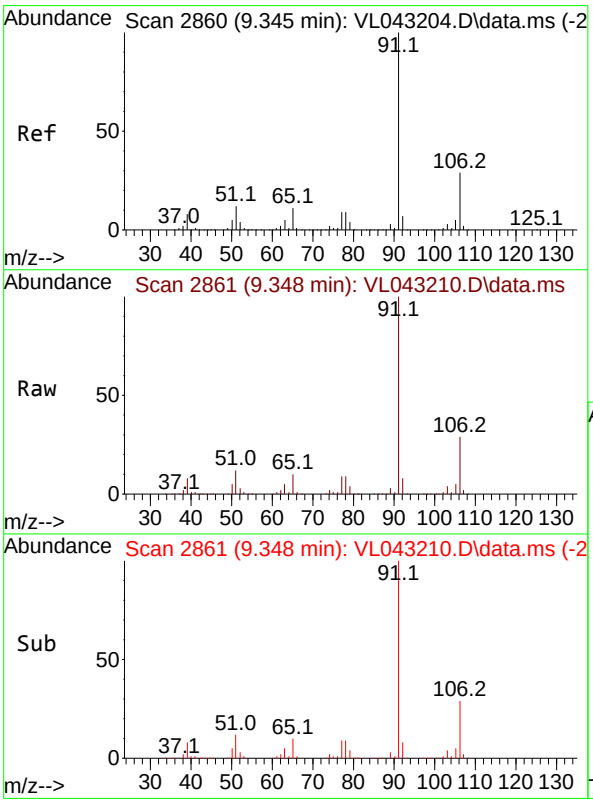
#57
Chlorobenzene
Concen: 13.923 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

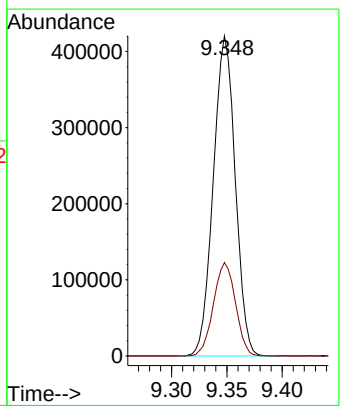


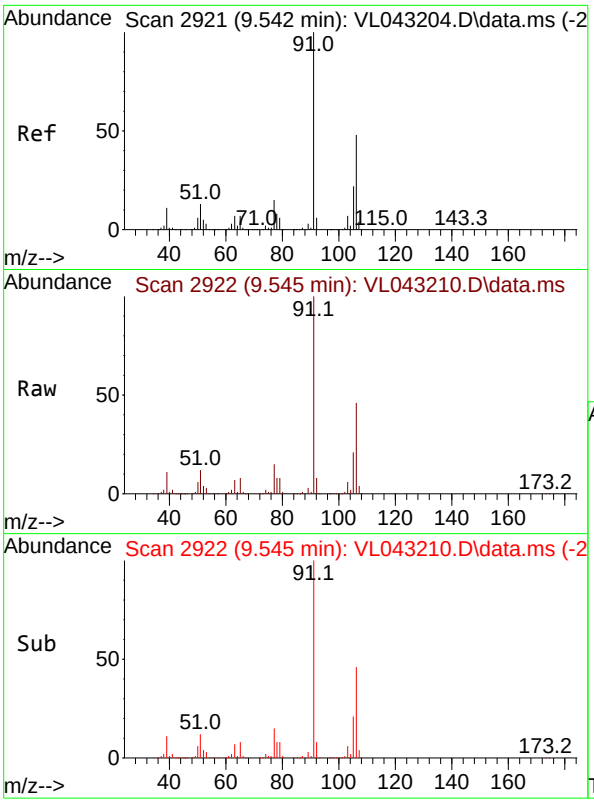


#58
Ethyl Benzene
Concen: 14.262 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 579890

Ion	Ratio	Lower	Upper
91	100		
106	29.2	22.8	34.2



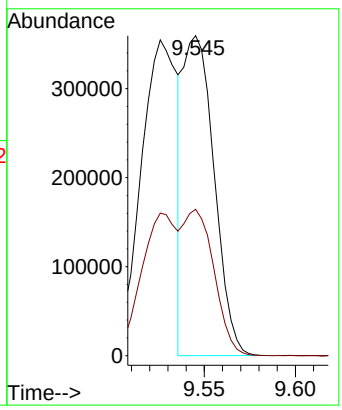


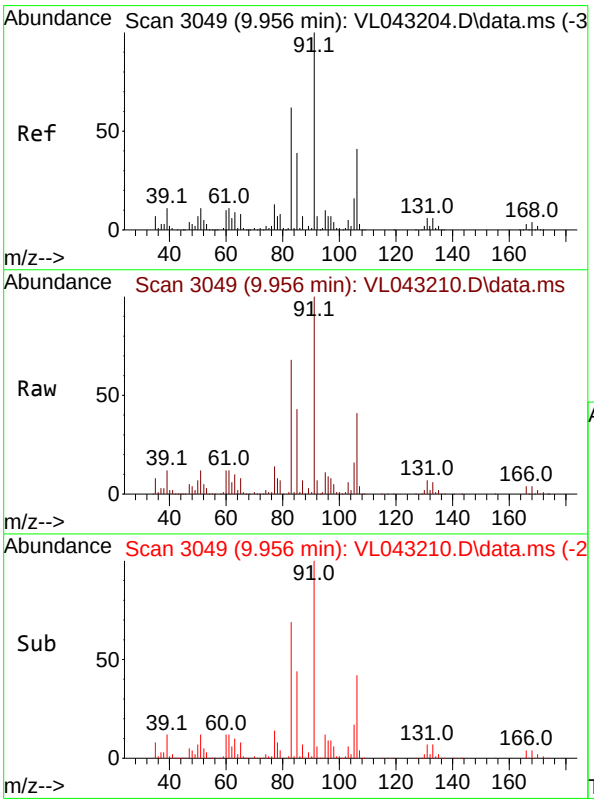
#59
m/p-Xylene
Concen: 12.959 ppbv
RT: 9.545 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 423995

Ion	Ratio	Lower	Upper
91	100		
106	97.4	36.1	54.1#

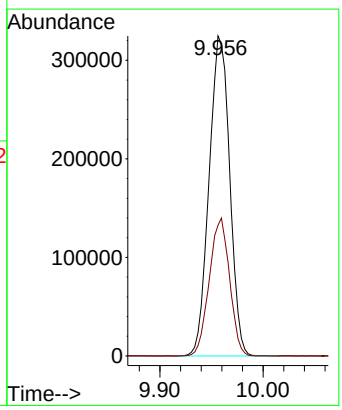


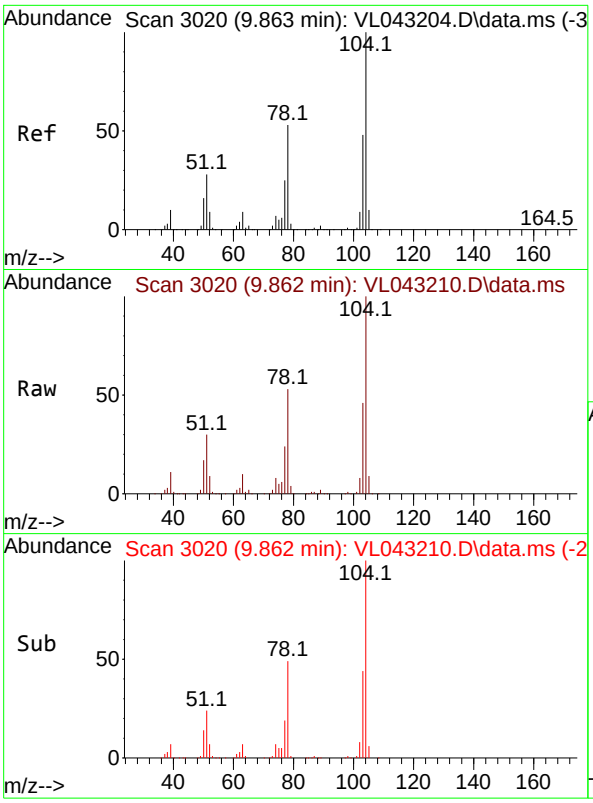


#60
o-Xylene
Concen: 13.826 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 450260

Ion	Ratio	Lower	Upper
91	100		
106	42.4	20.9	62.8



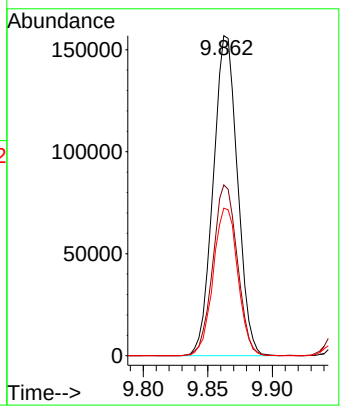


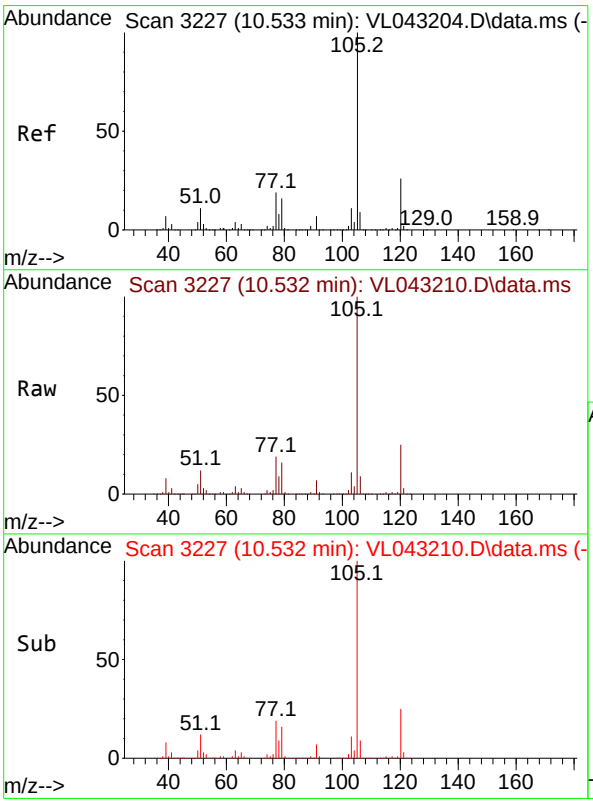
#61
Styrene
Concen: 14.382 ppbv
RT: 9.862 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

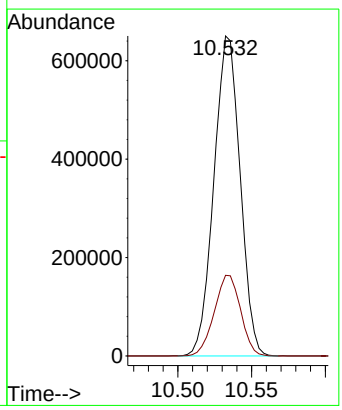


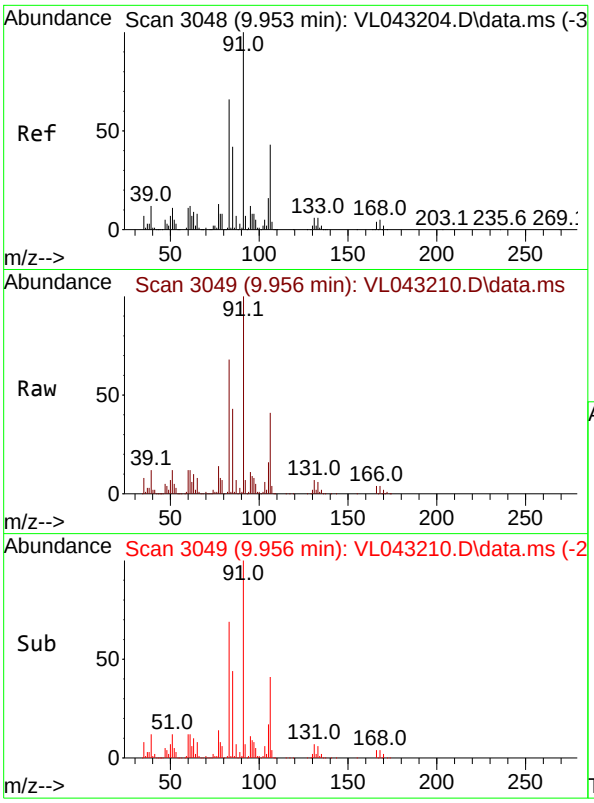


#62
Isopropylbenzene
Concen: 13.791 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:105 Resp: 803487

Ion	Ratio	Lower	Upper
105	100		
120	25.3	19.8	29.8



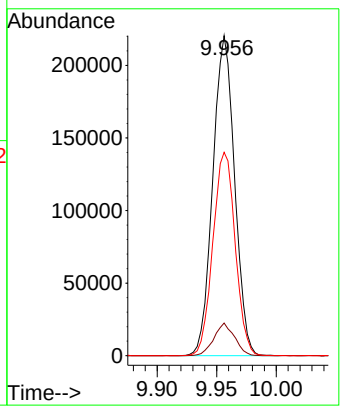


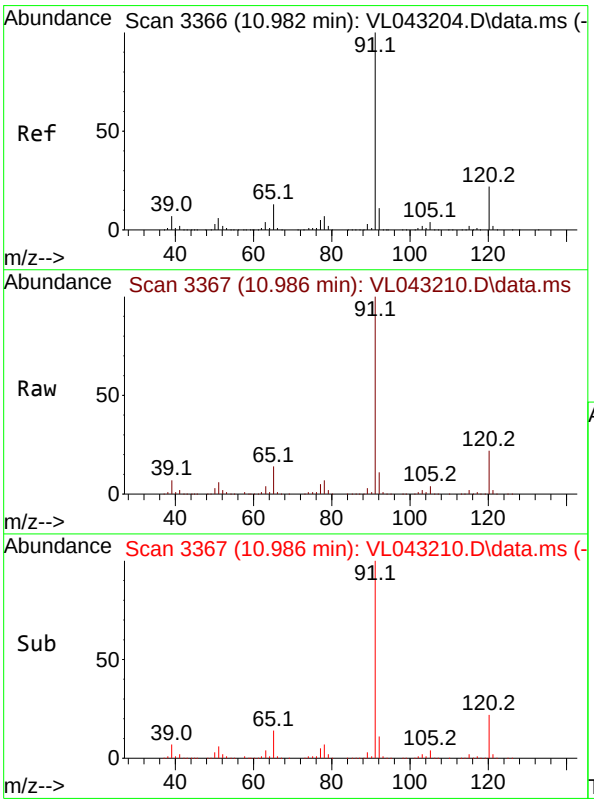
#63
1,1,2,2-Tetrachloroethane
Concen: 13.557 ppbv
RT: 9.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

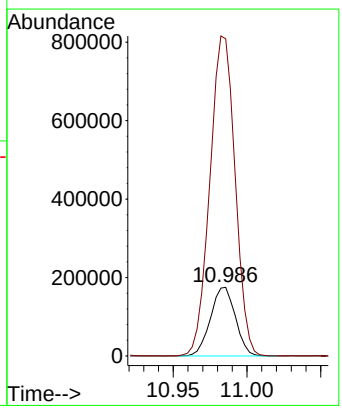


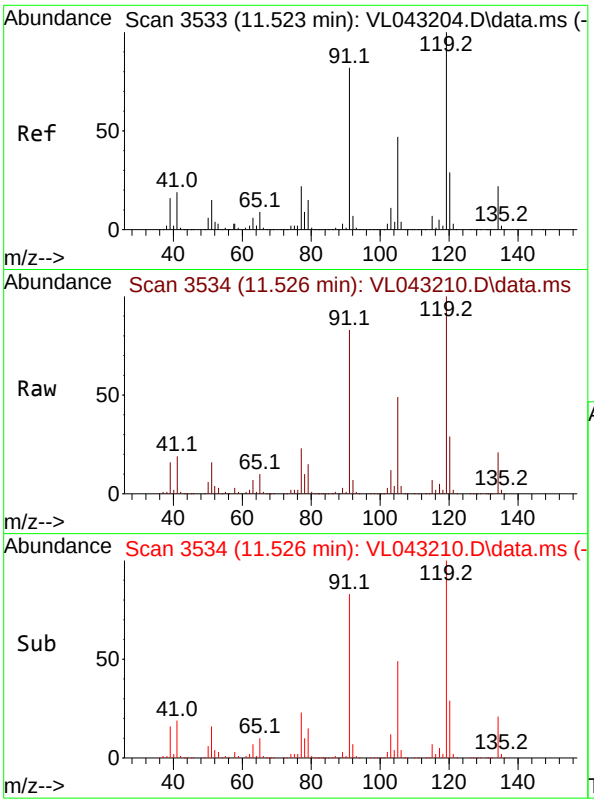


#64
n-propylbenzene
Concen: 13.737 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:120 Resp: 205637

Ion	Ratio	Lower	Upper
120	100		
91	471.6	377.1	565.7



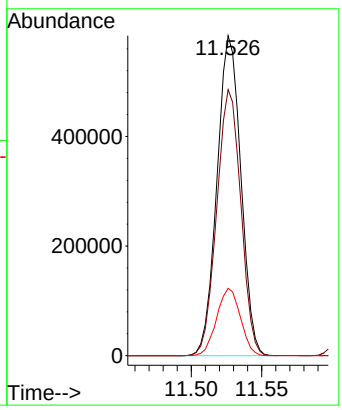


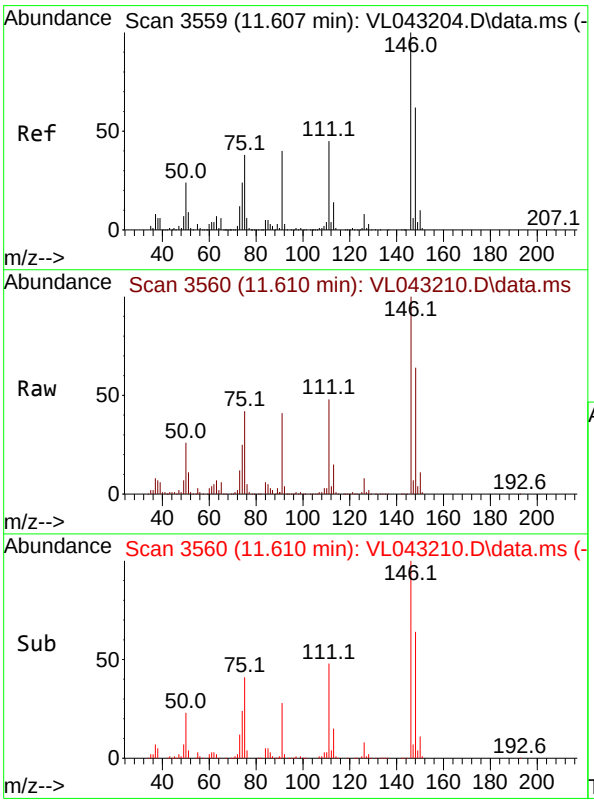
#65
tert-Butylbenzene
Concen: 13.249 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

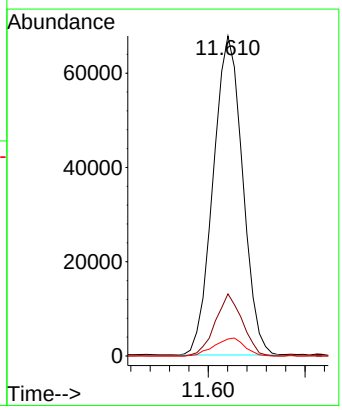


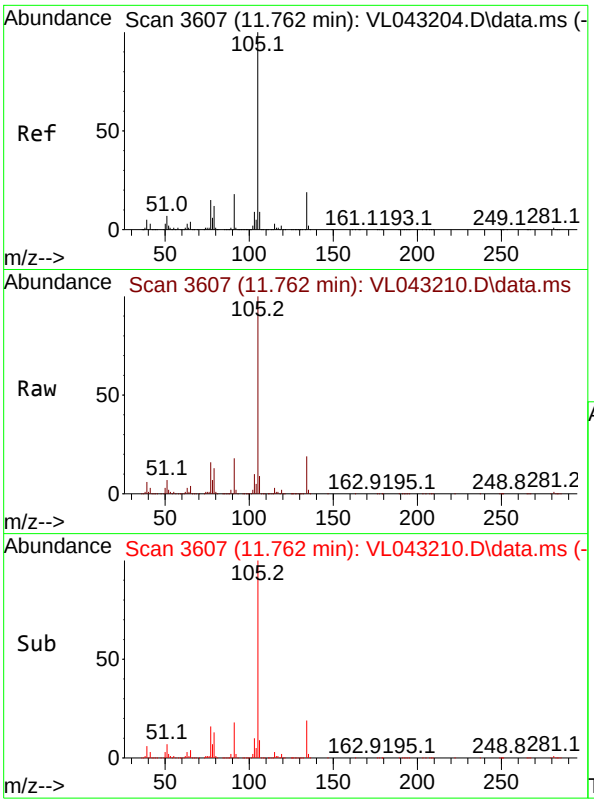


#66
Benzyl Chloride
Concen: 13.520 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



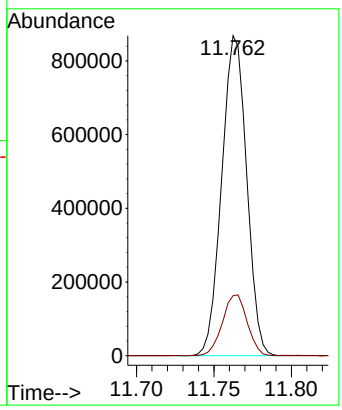


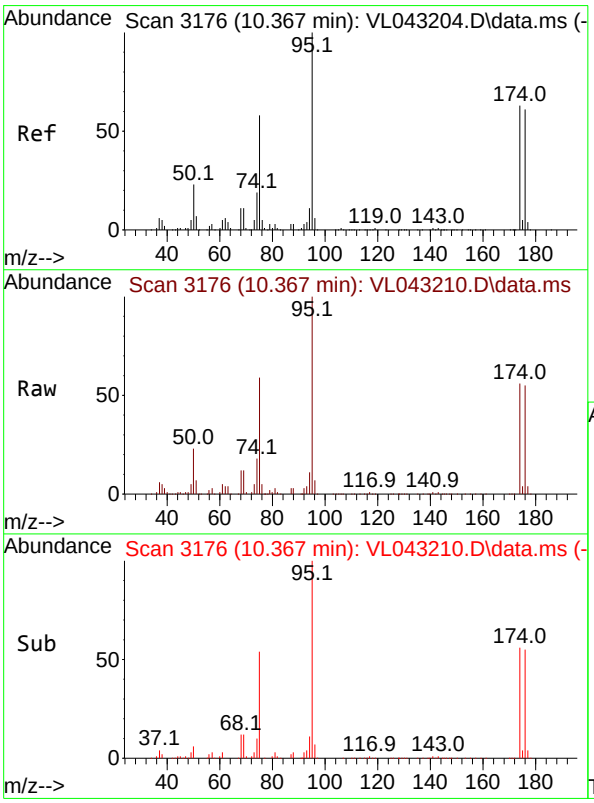
#67
sec-Butylbenzene
Concen: 13.394 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 972780

Ion	Ratio	Lower	Upper
105	100		
134	18.9	15.0	22.6

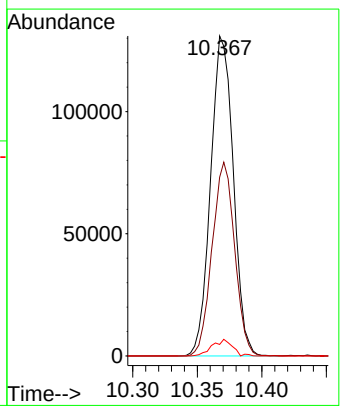


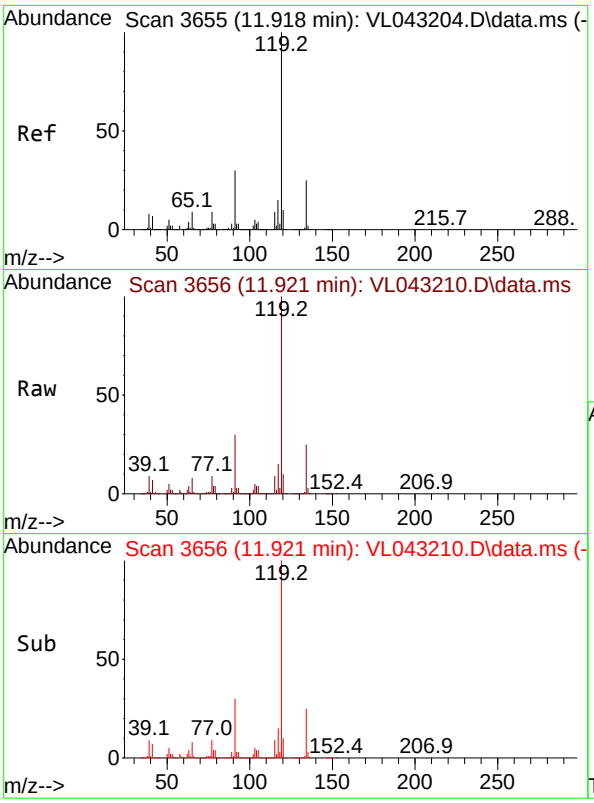


#68
1-Bromo-4-Fluorobenzene
Concen: 10.321 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



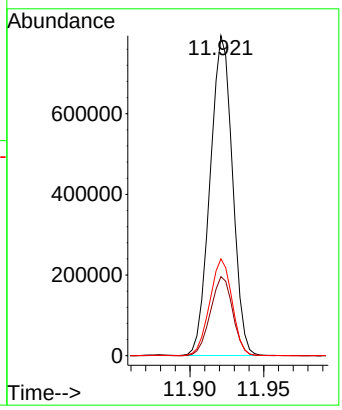


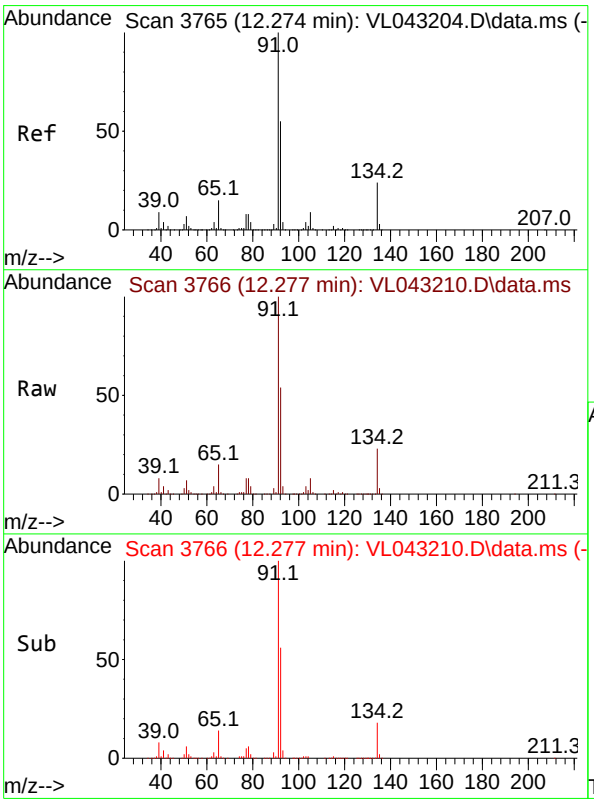
#69
p-Isopropyltoluene
Concen: 13.602 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

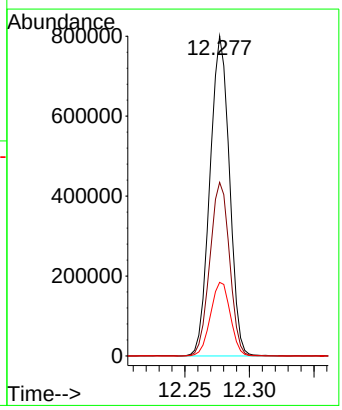


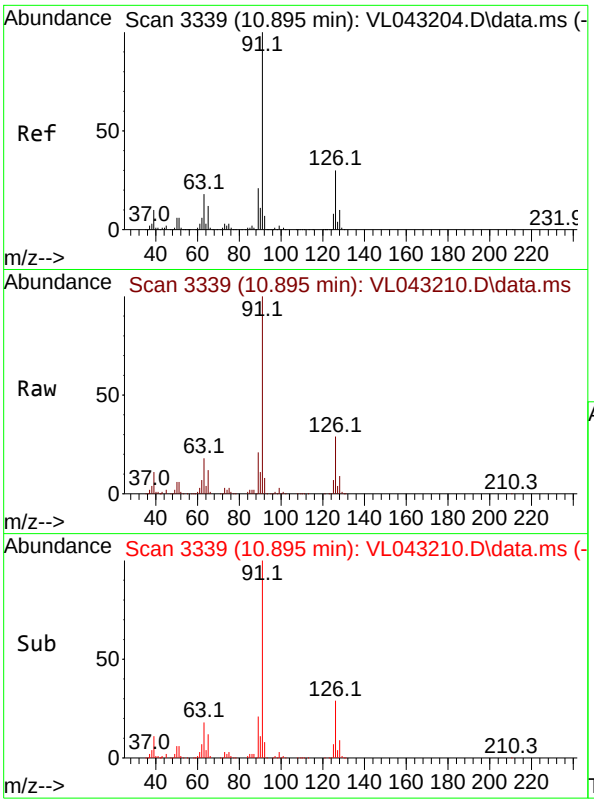


#70
n-Butylbenzene
Concen: 14.050 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



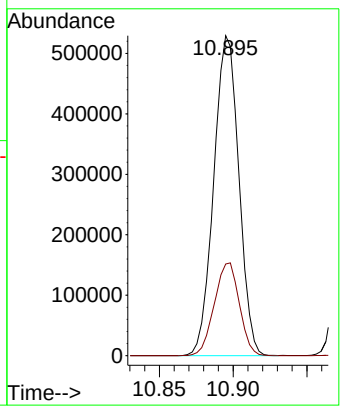


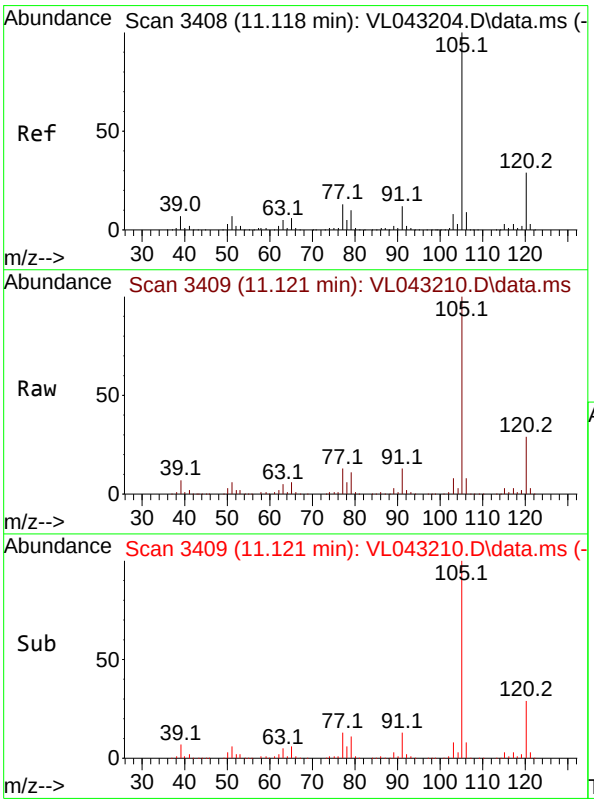
#71
2-Chlorotoluene
Concen: 13.976 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 625884

Ion	Ratio	Lower	Upper
91	100		
126	28.9	11.7	46.7

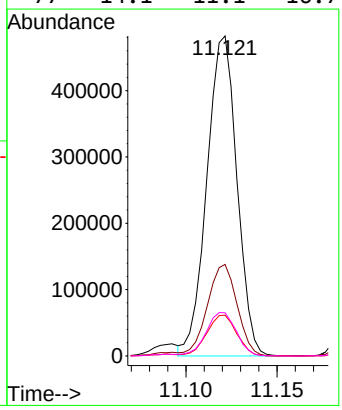


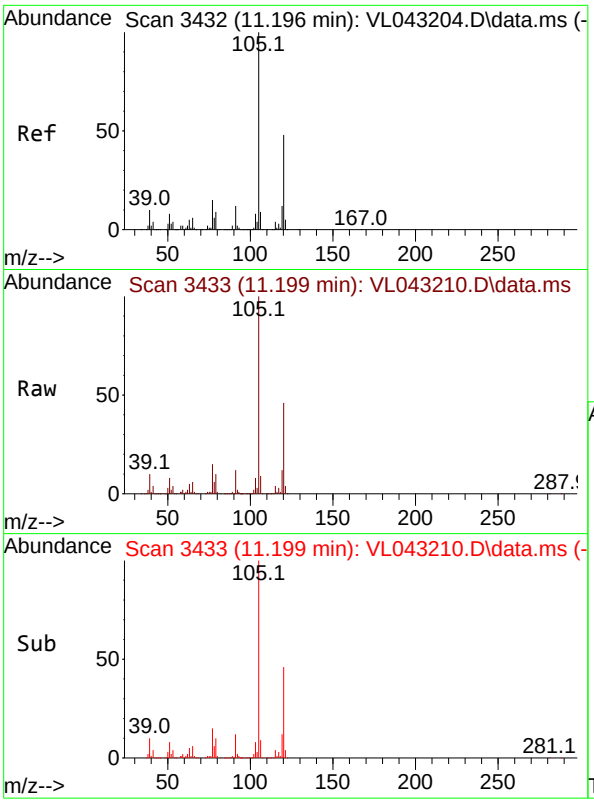


#72
4-Ethyltoluene
Concen: 13.961 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



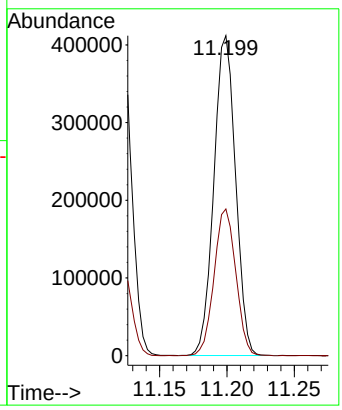


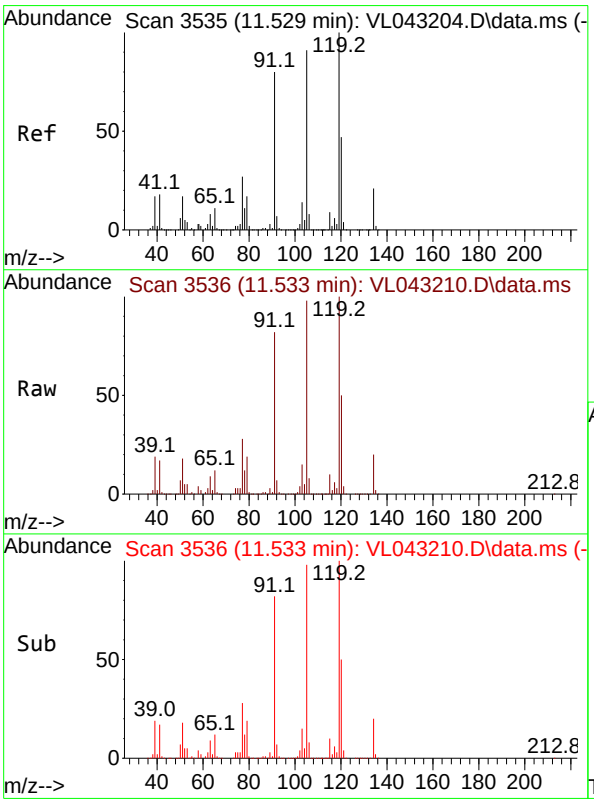
#73
1,3,5-Trimethylbenzene
Concen: 13.846 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 460783

Ion	Ratio	Lower	Upper
105	100		
120	45.9	38.6	57.8

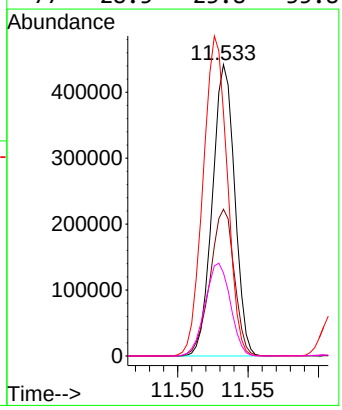


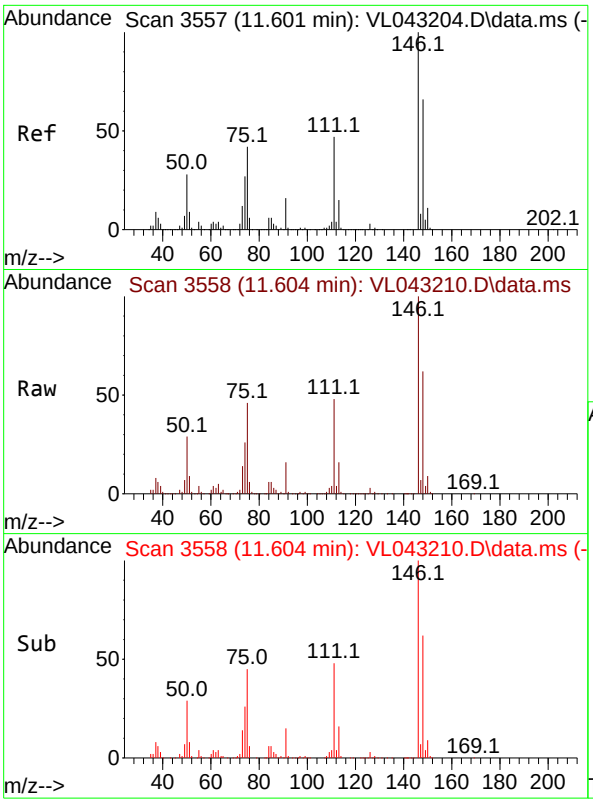


#74
1,2,4-Trimethylbenzene
Concen: 13.409 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



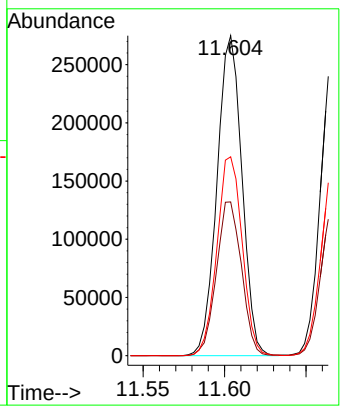


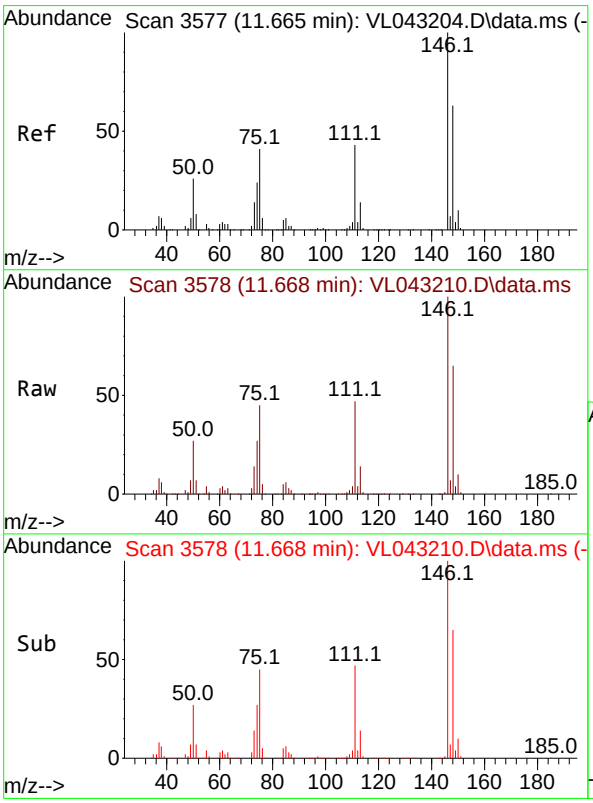
#75
1,3-Dichlorobenzene
Concen: 13.784 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

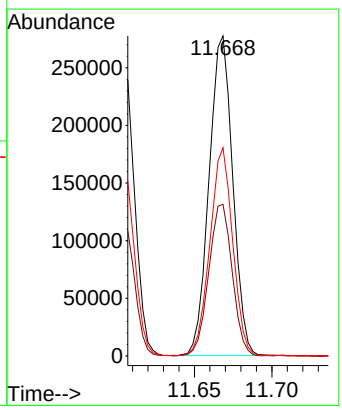


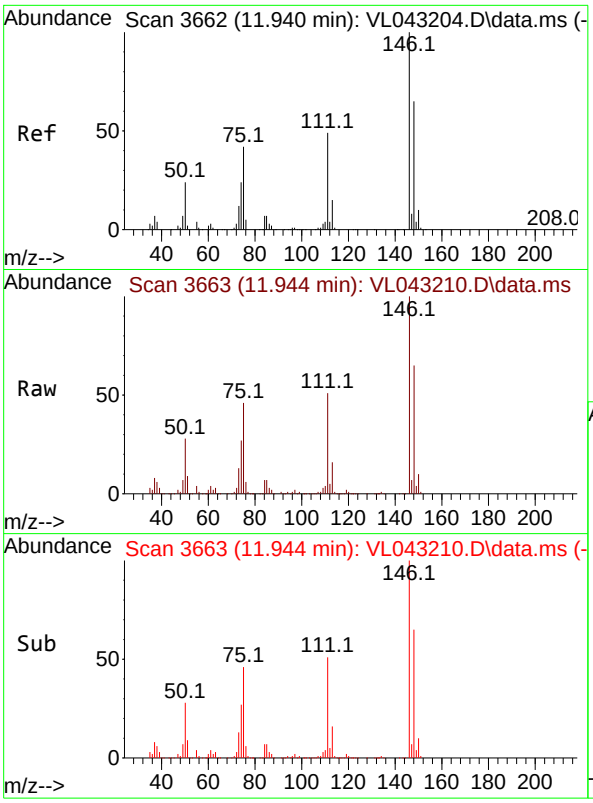


#76
1,4-Dichlorobenzene
Concen: 13.903 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



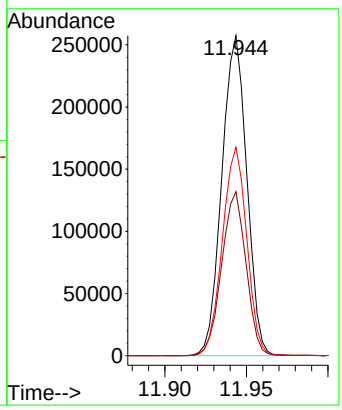


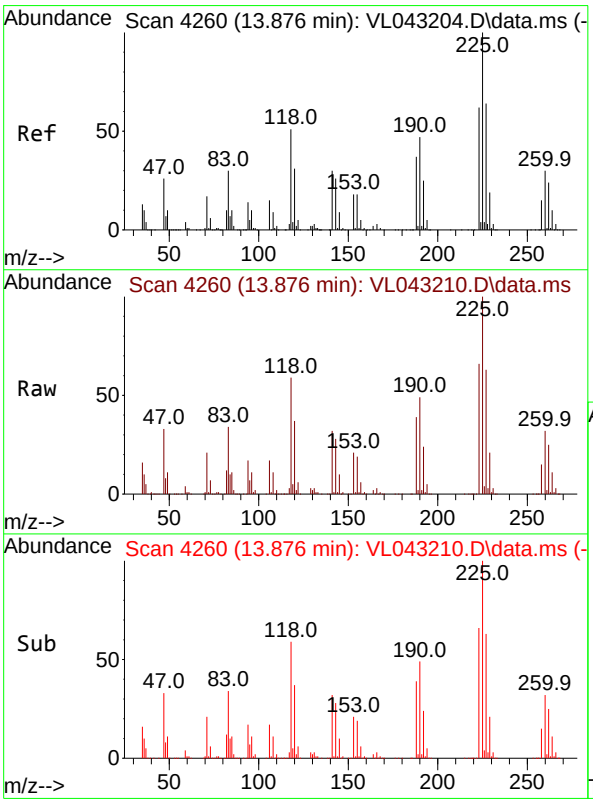
#77
1,2-Dichlorobenzene
Concen: 13.420 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

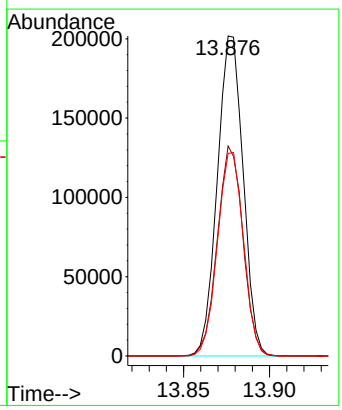


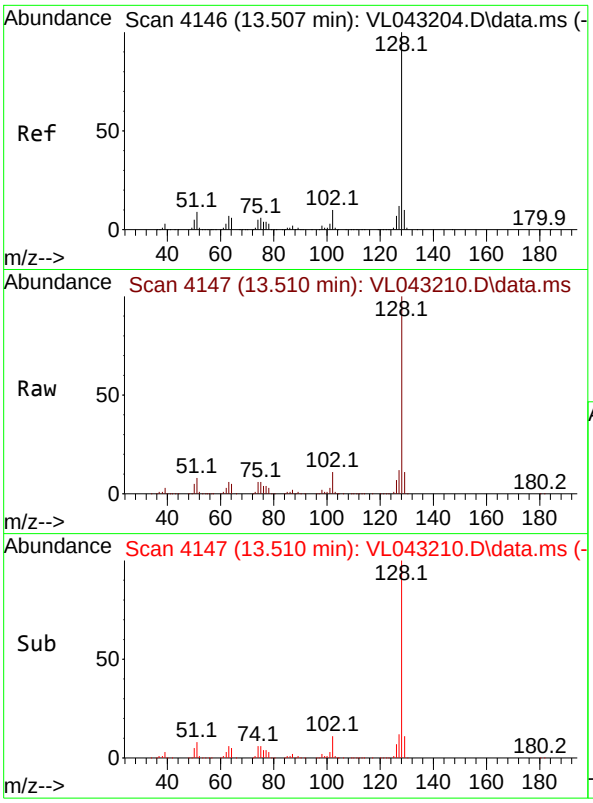


#78
Hexachloro-1,3-Butadiene
Concen: 12.416 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



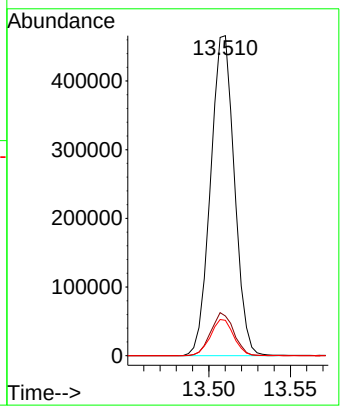


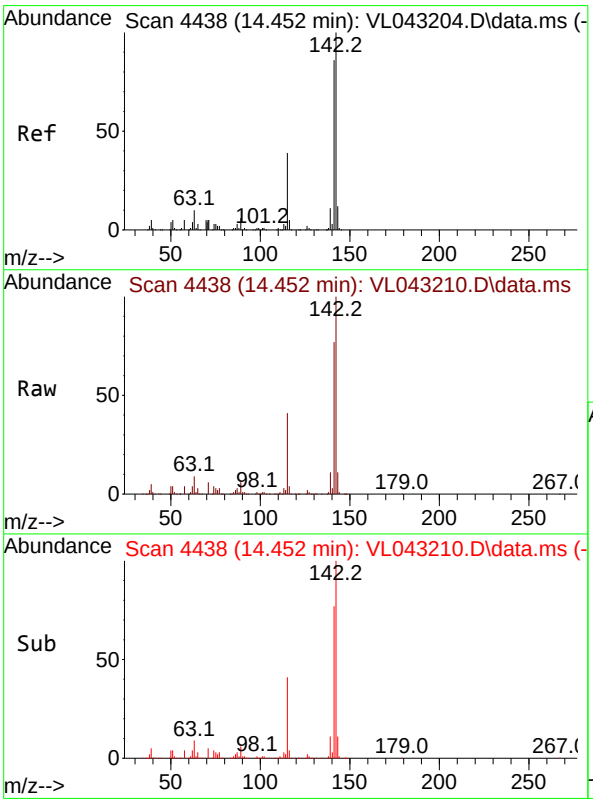
#79
Naphthalene
Concen: 14.670 ppbv
RT: 13.510 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

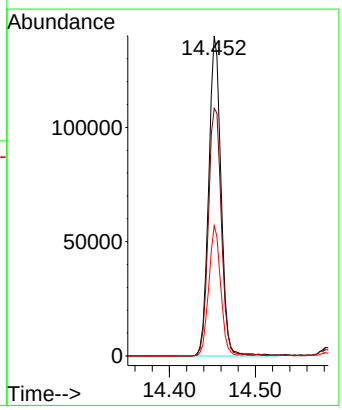


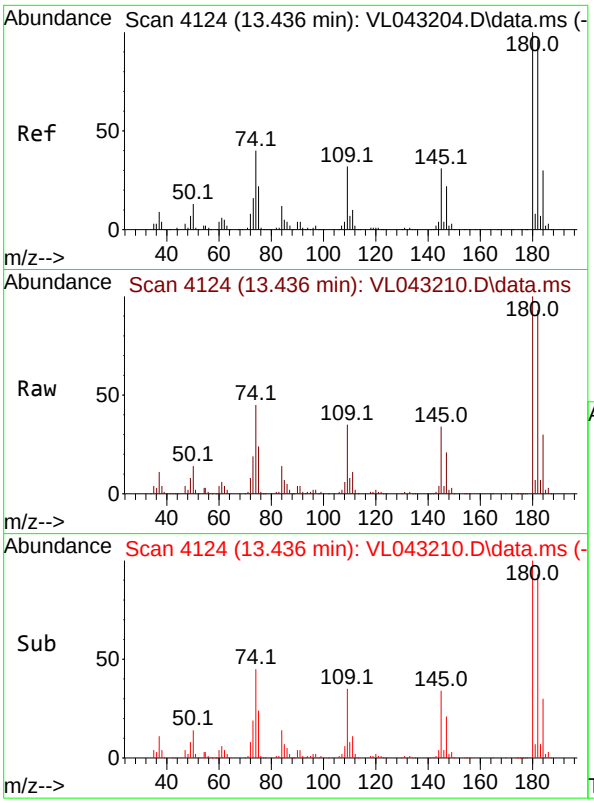


#80
Naphthalene,2-methyl-
Concen: 16.418 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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



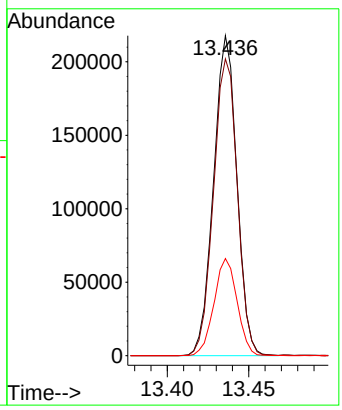


#81
1,2,4-Trichlorobenzene
Concen: 14.990 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

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

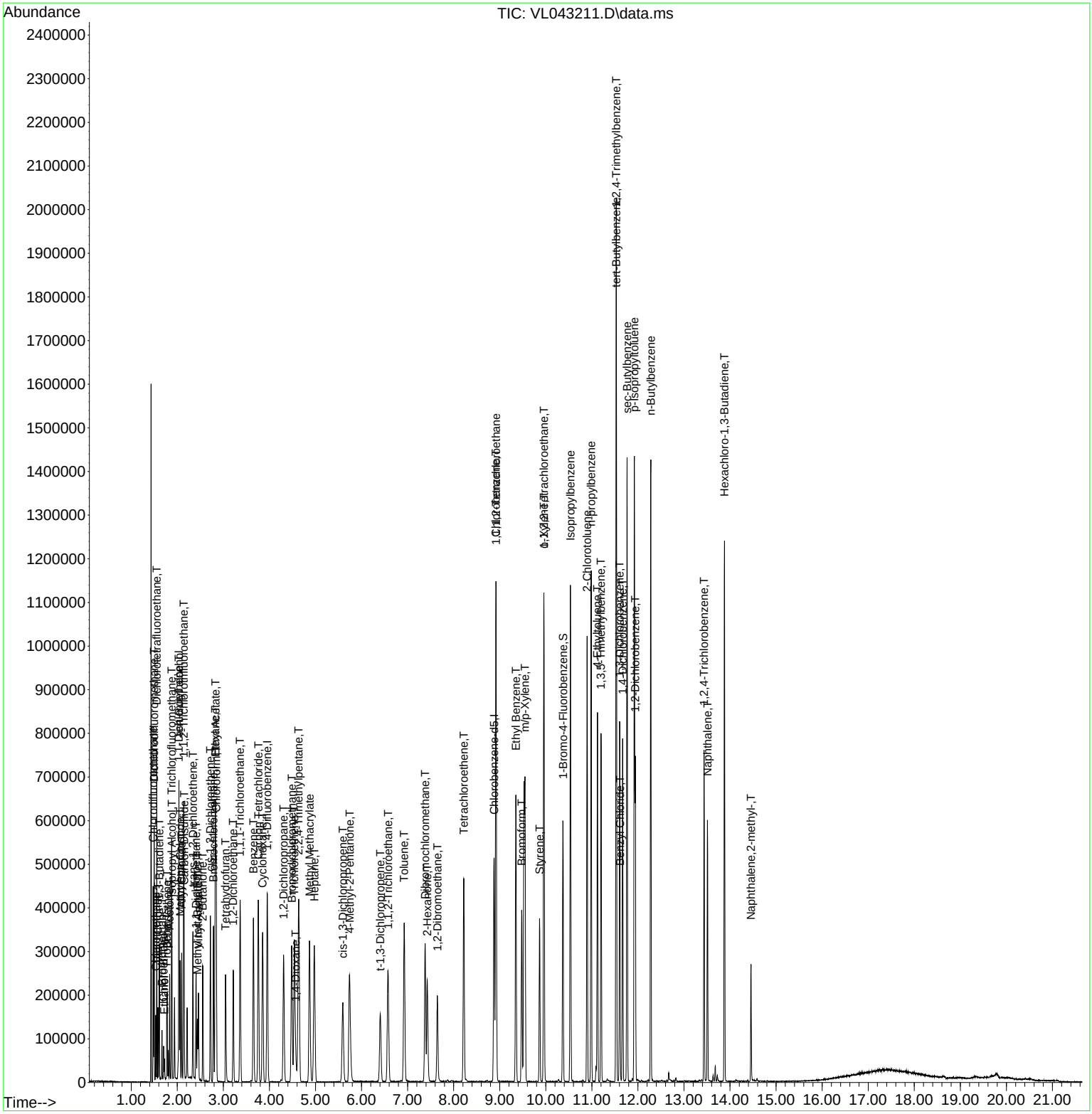
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	115476	7.924	ppbv		97
47) 1,1,2-Trichloroethane	6.577	97	88525	9.086	ppbv		95
48) Dibromochloromethane	7.380	129	159365	9.514	ppbv		99
49) Bromoform	9.477	173	134790	9.085	ppbv		99
50) 4-Methyl-2-Pentanone	5.742	43	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

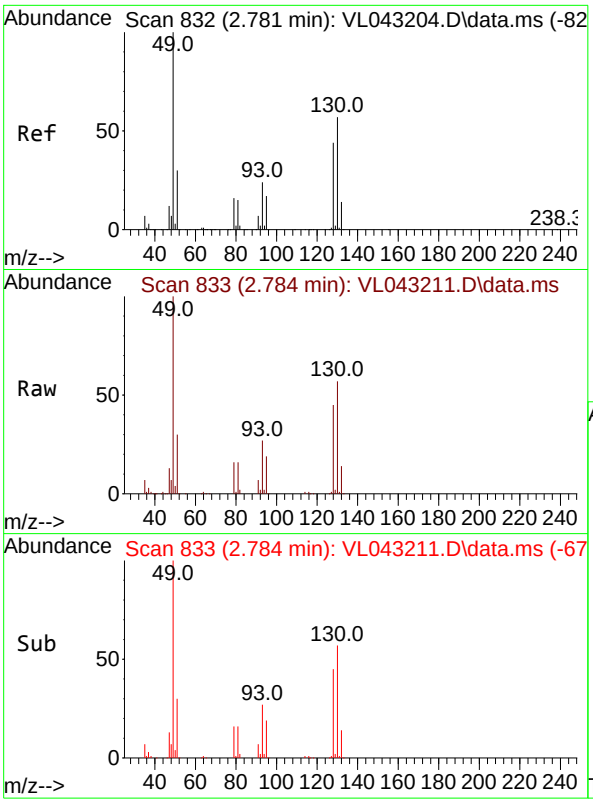
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



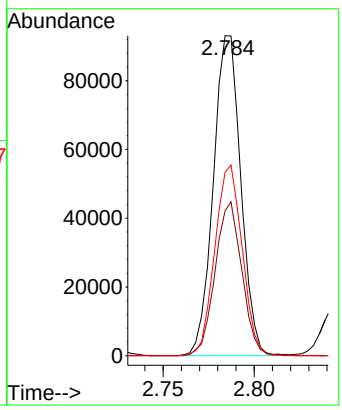


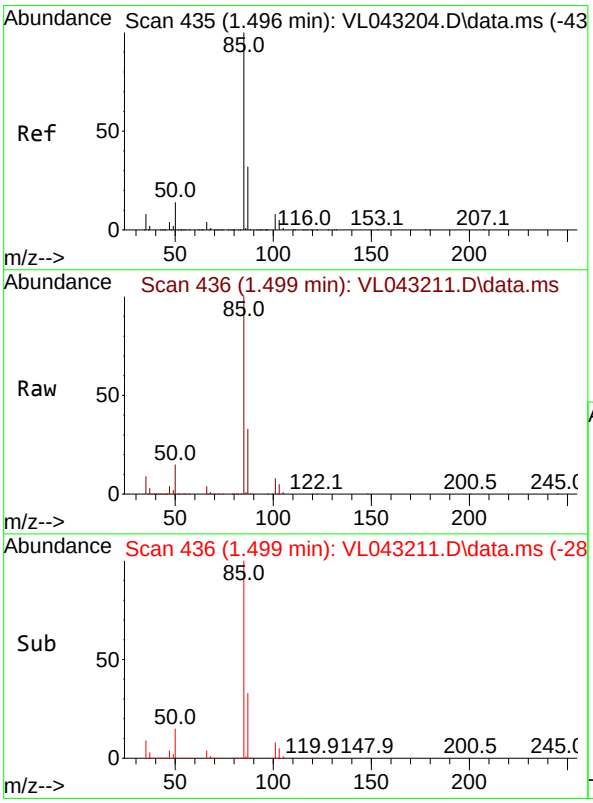
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

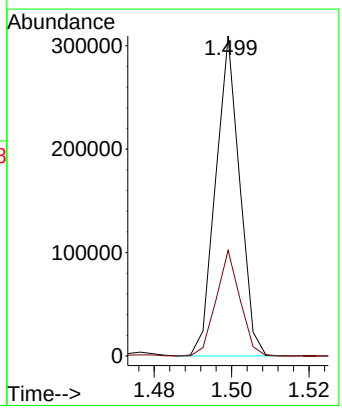


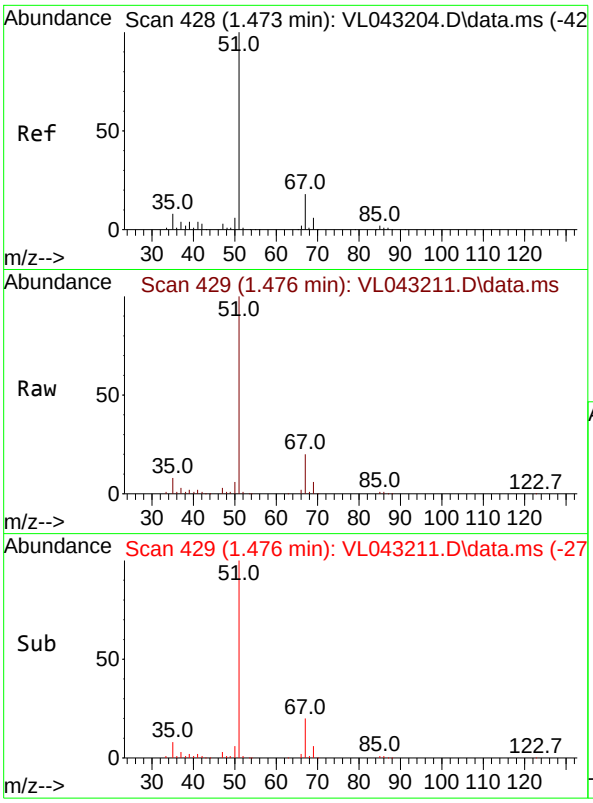


#2
Dichlorodifluoromethane
Concen: 9.664 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 85 Resp: 133374

Ion	Ratio	Lower	Upper
85	100		
87	33.0	25.4	38.2



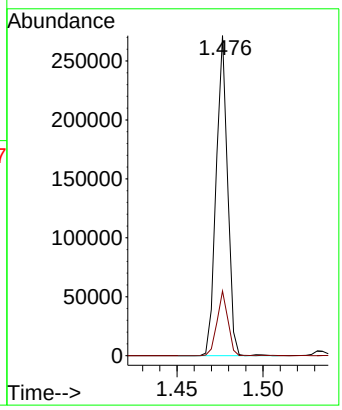


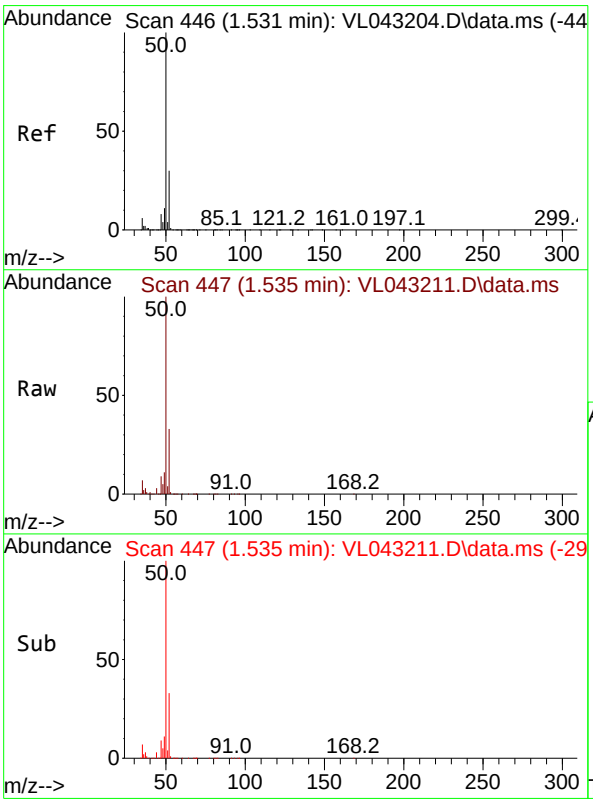
#3
Chlorodifluoromethane
Concen: 9.199 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 51 Resp: 124858

Ion	Ratio	Lower	Upper
51	100		
67	19.6	14.9	22.3

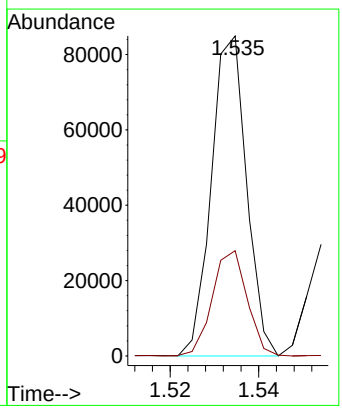


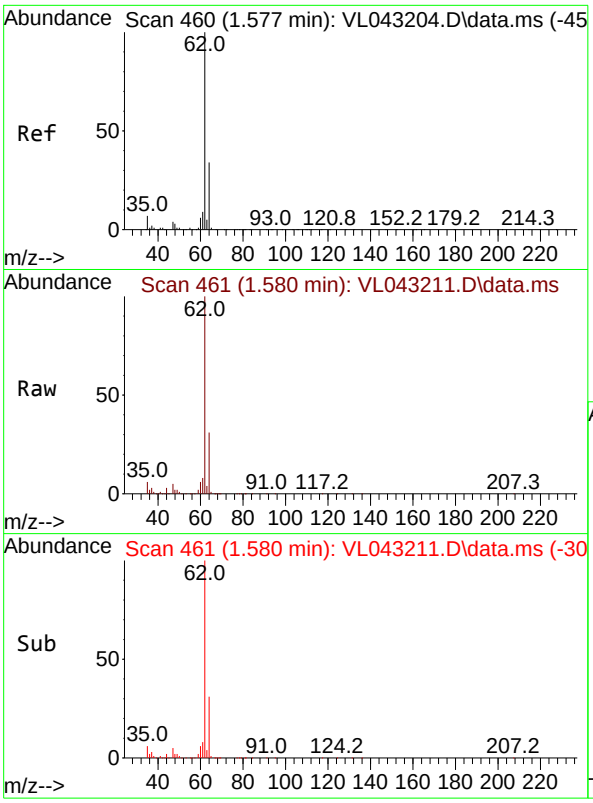


#4
Chloromethane
Concen: 9.090 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 50 Resp: 46906

Ion	Ratio	Lower	Upper
50	100		
52	32.8	24.1	36.1



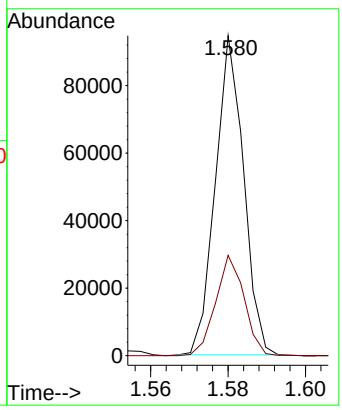


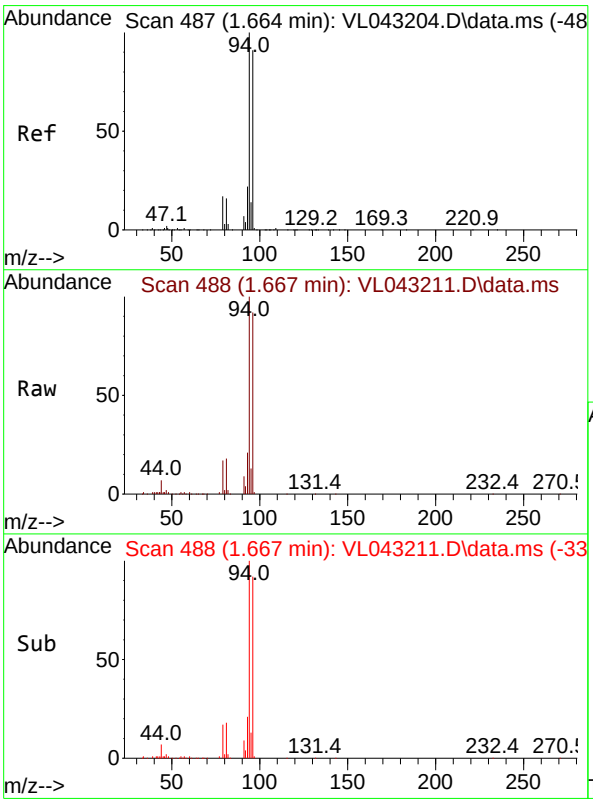
#5
Vinyl Chloride
Concen: 8.493 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 62 Resp: 47932

Ion	Ratio	Lower	Upper
62	100		
64	31.4	27.3	40.9

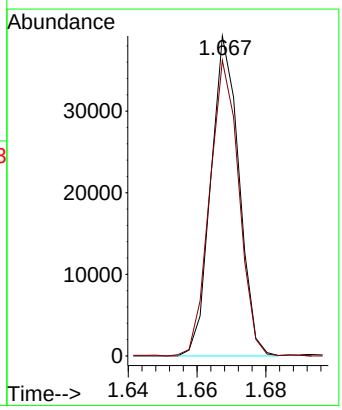


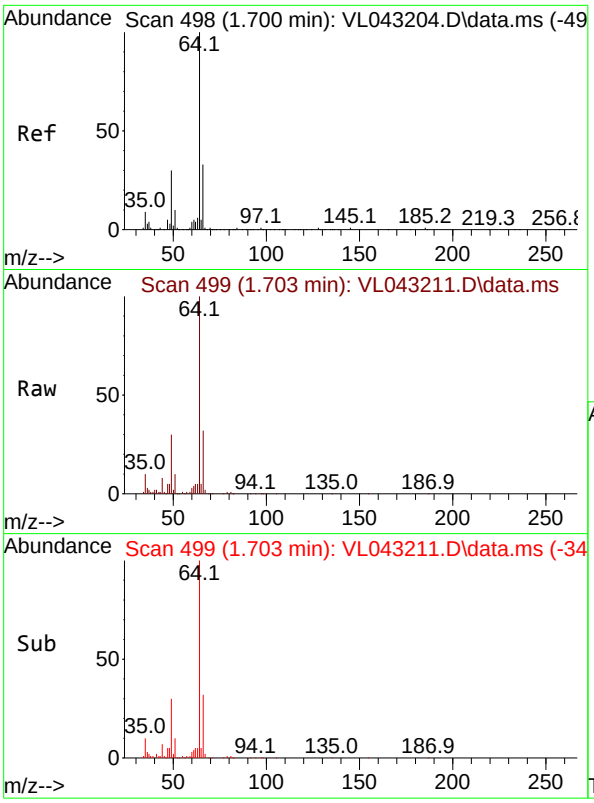


#6
Bromomethane
Concen: 8.126 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 94 Resp: 22230

Ion	Ratio	Lower	Upper
94	100		
96	92.2	72.9	109.3



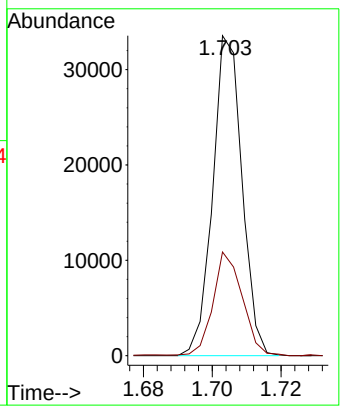


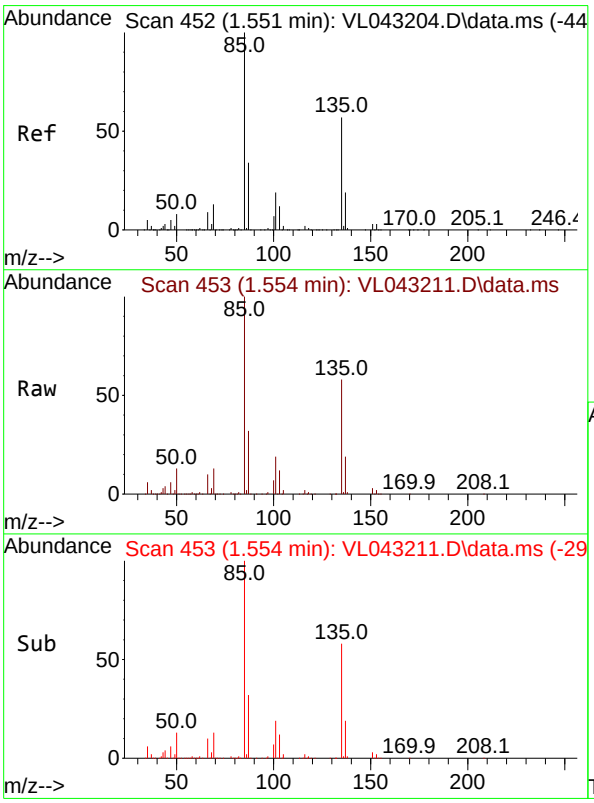
#7
Chloroethane
Concen: 9.033 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 64 Resp: 19854

Ion	Ratio	Lower	Upper
64	100		
66	32.4	26.8	40.2

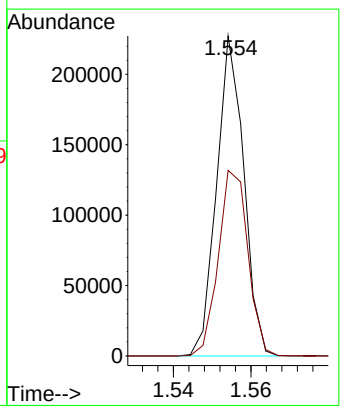


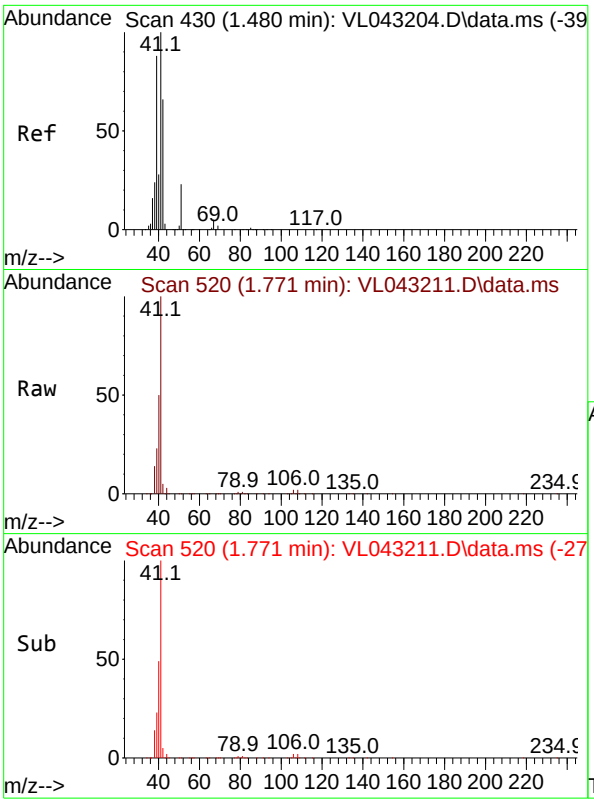


#8
Dichlorotetrafluoroethane
Concen: 9.632 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 85 Resp: 110587

Ion	Ratio	Lower	Upper
85	100		
135	63.5	52.6	79.0



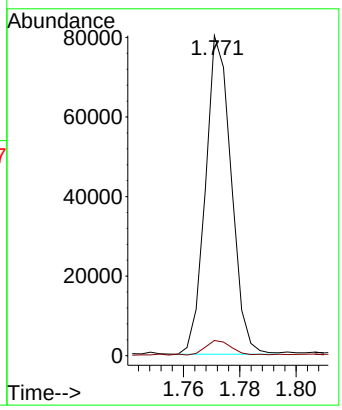


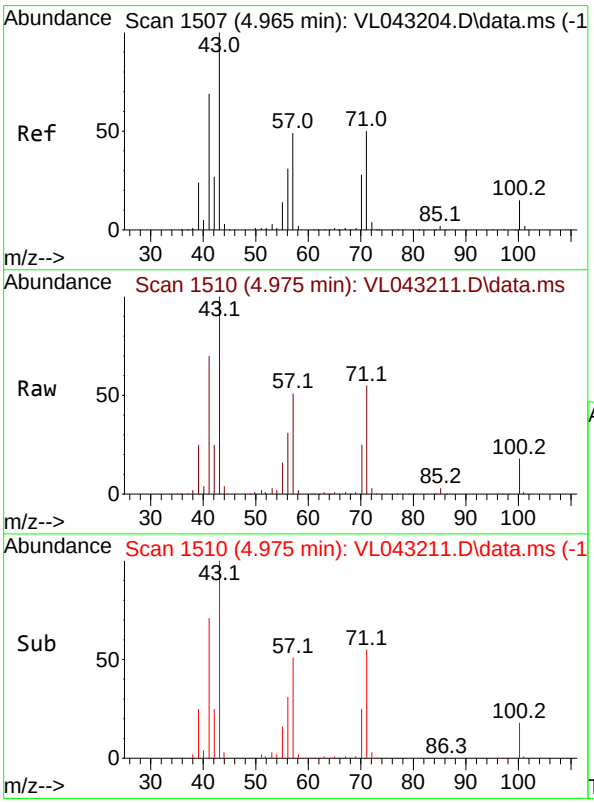
#9
Propene
Concen: 8.817 ppbv
RT: 1.771 min Scan# 5
Delta R.T. 0.291 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 41 Resp: 50816

Ion	Ratio	Lower	Upper
41	100		
42	4.7	3.7	5.5

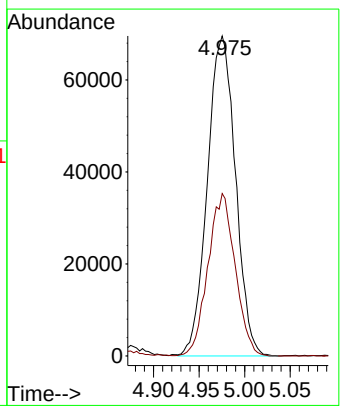


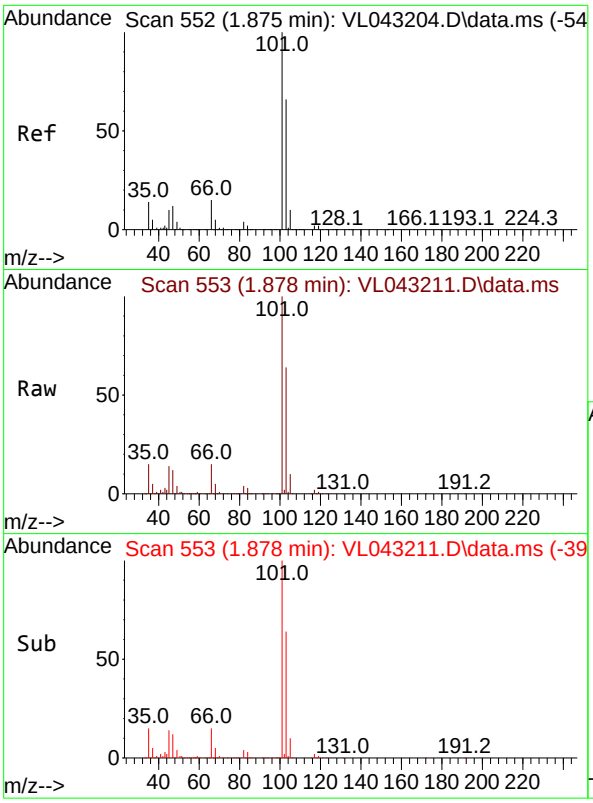


#10
Heptane
Concen: 8.698 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 149202

Ion	Ratio	Lower	Upper
43	100		
57	49.1	39.7	59.5



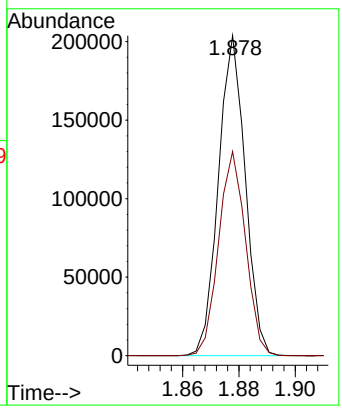


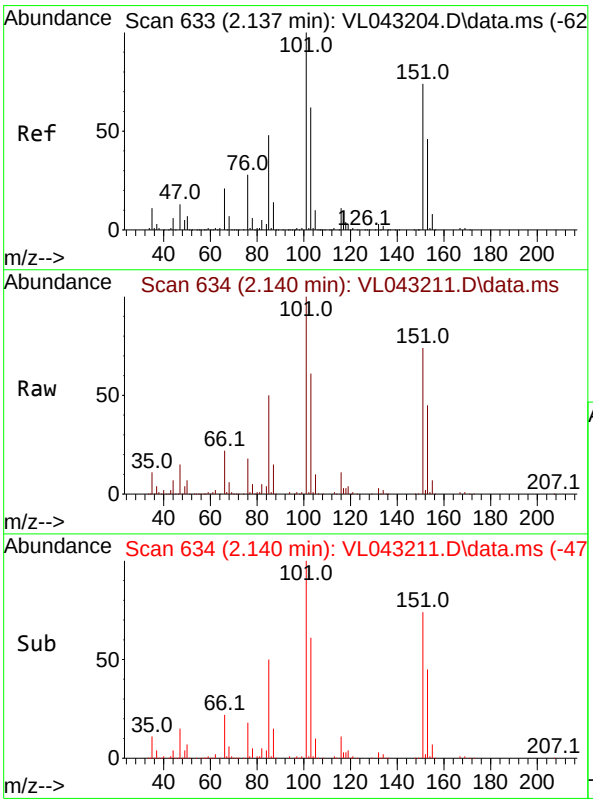
#11
Trichlorofluoromethane
Concen: 10.077 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:101 Resp: 134746

Ion	Ratio	Lower	Upper
101	100		
103	63.8	52.6	79.0

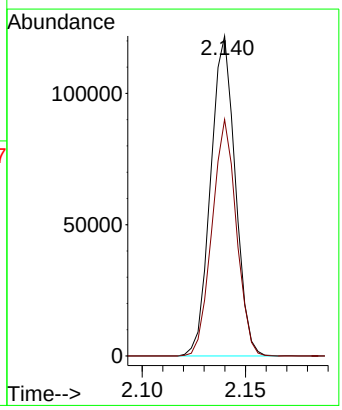


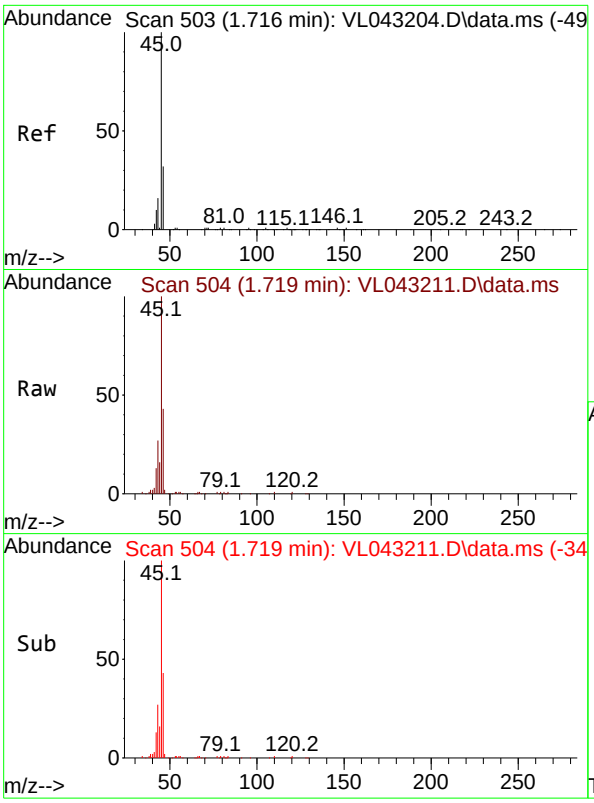


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.673 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:101 Resp: 100984

Ion	Ratio	Lower	Upper
101	100		
151	73.1	59.2	88.8



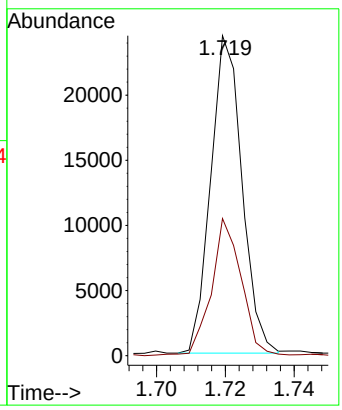


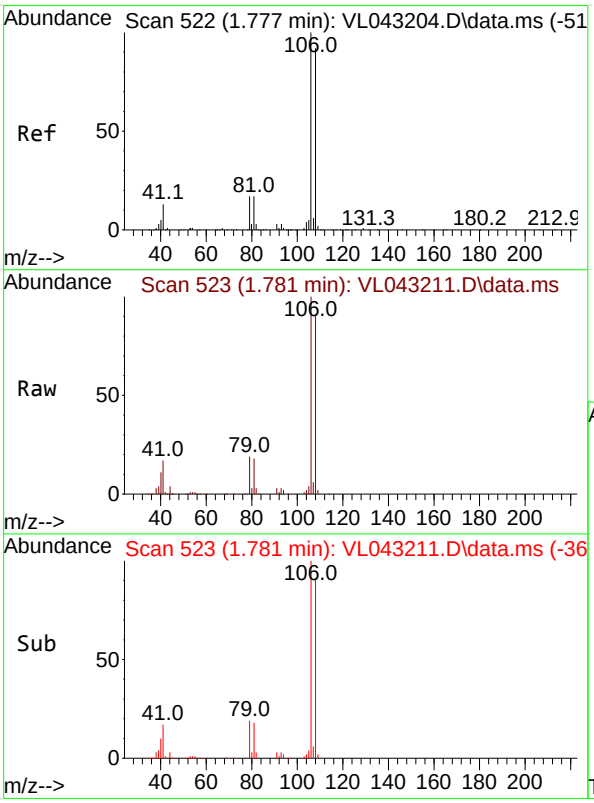
#13
Ethanol
Concen: 7.584 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 45 Resp: 15371

Ion	Ratio	Lower	Upper
45	100		
46	42.2	15.0	59.8

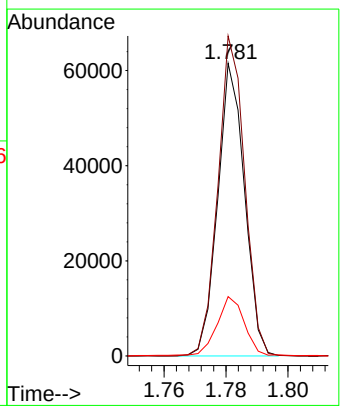


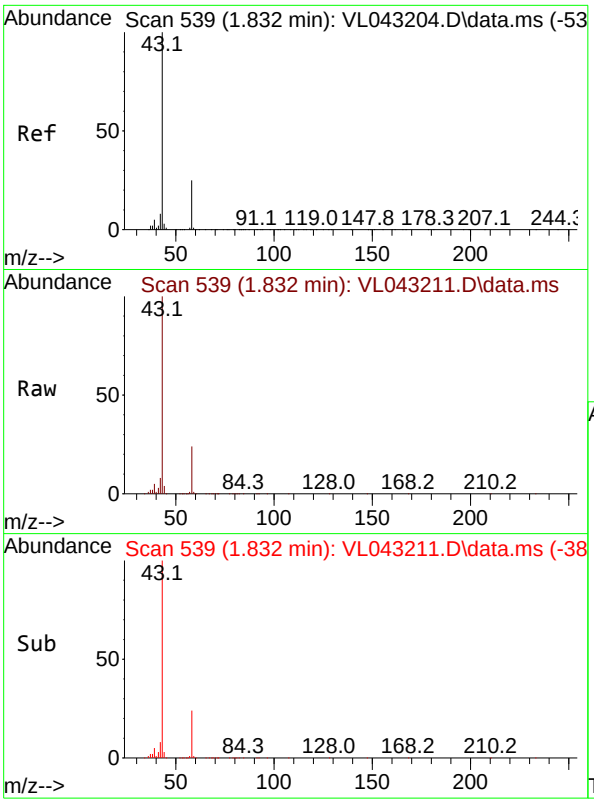


#14
Bromoethene
Concen: 9.240 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



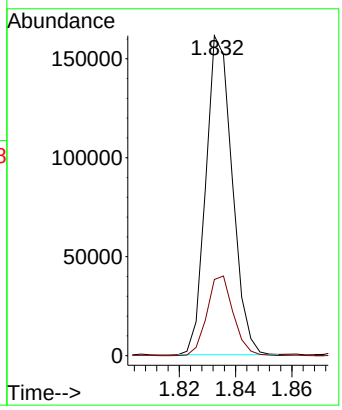


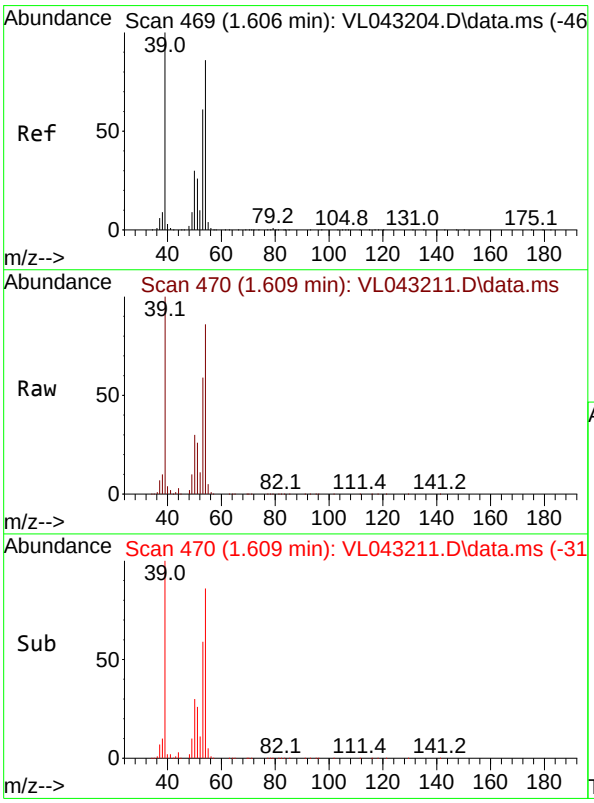
#15
Acetone
Concen: 7.711 ppbv
RT: 1.832 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 43 Resp: 104830

Ion	Ratio	Lower	Upper
43	100		
58	25.2	20.7	31.1

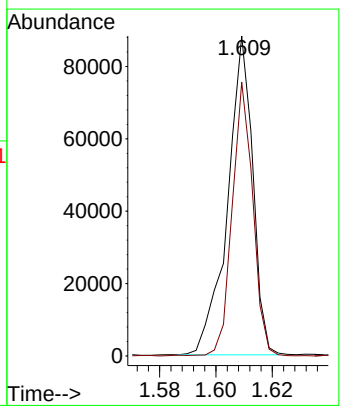


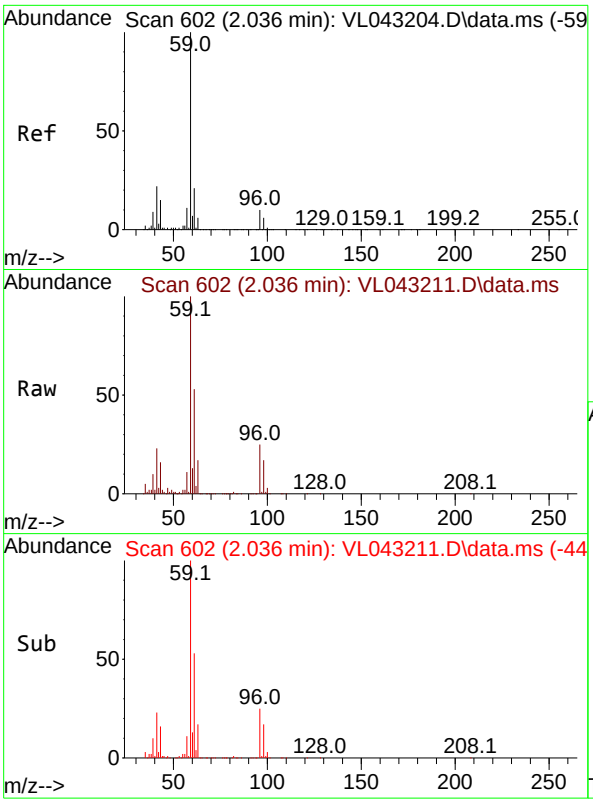


#16
1,3-Butadiene
Concen: 9.041 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 39 Resp: 54795

Ion	Ratio	Lower	Upper
39	100		
54	71.3	59.4	89.2



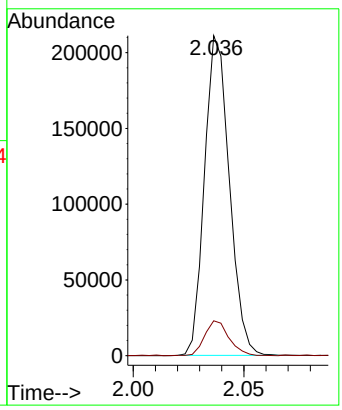


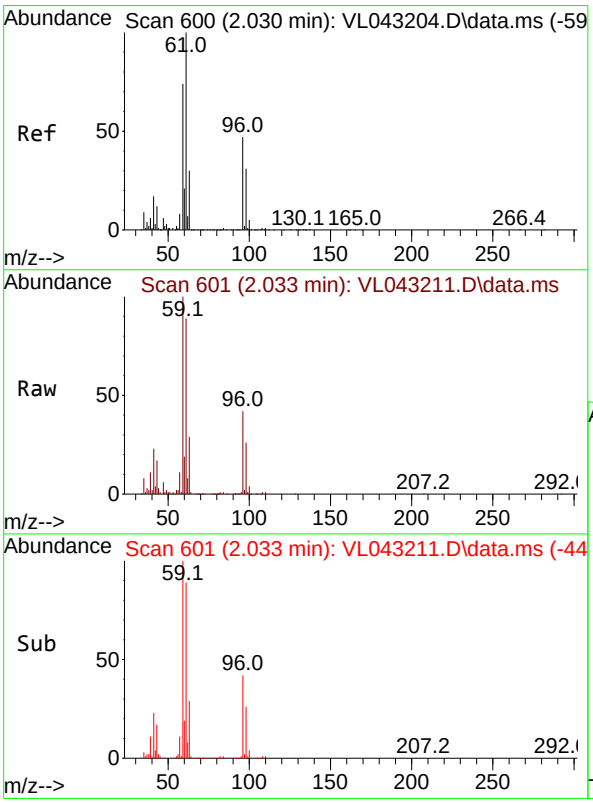
#17
tert-Butyl alcohol
Concen: 9.245 ppbv
RT: 2.036 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 59 Resp: 164987

Ion	Ratio	Lower	Upper
59	100		
57	10.8	9.0	13.4

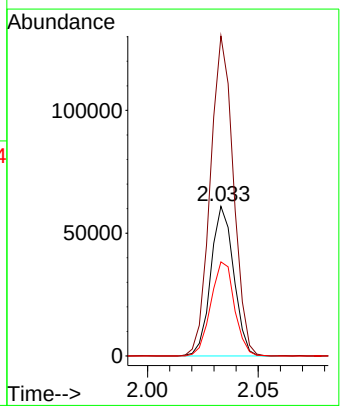


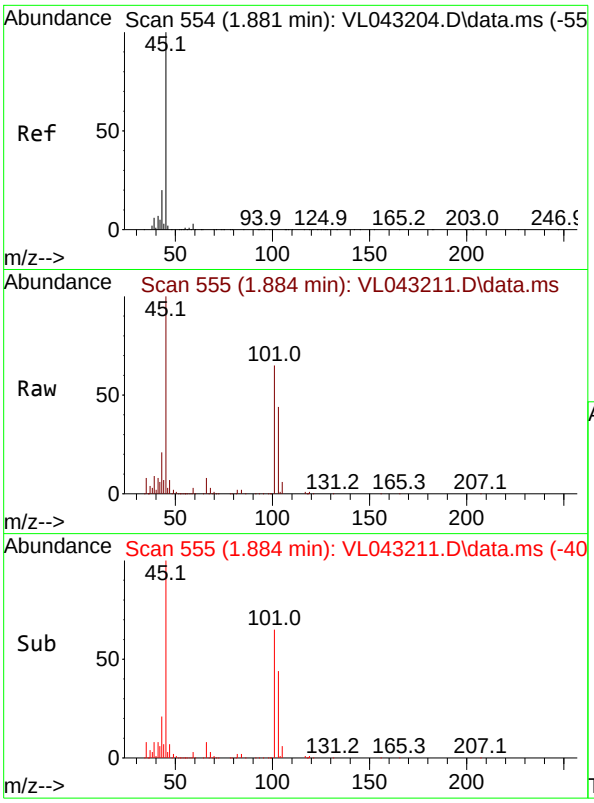


#18
1,1-Dichloroethene
Concen: 9.017 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



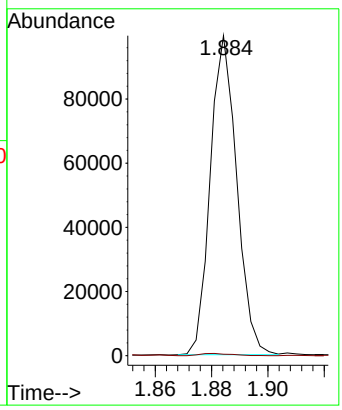


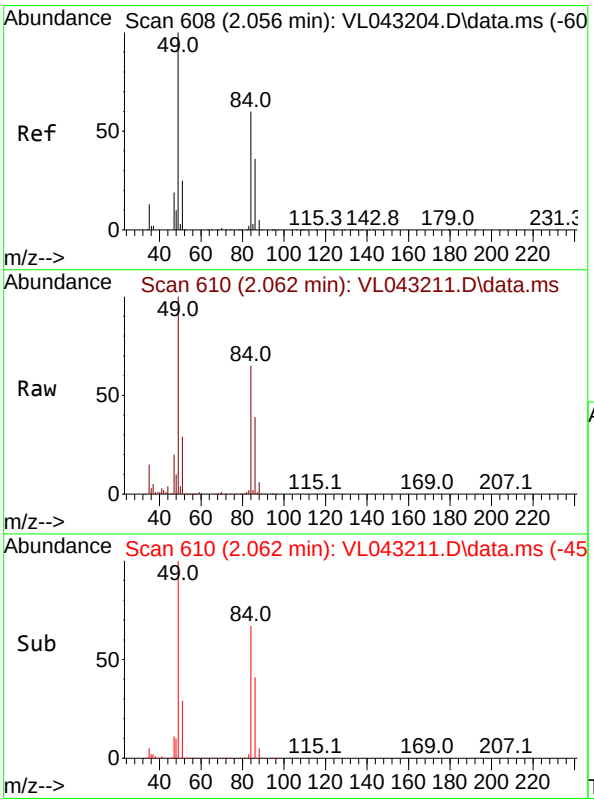
#19
Isopropyl Alcohol
Concen: 8.431 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 45 Resp: 64772

Ion	Ratio	Lower	Upper
45	100		
58	40.8	31.3	46.9

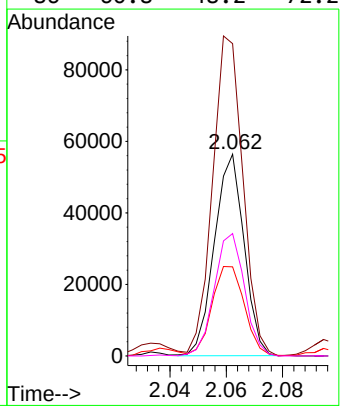


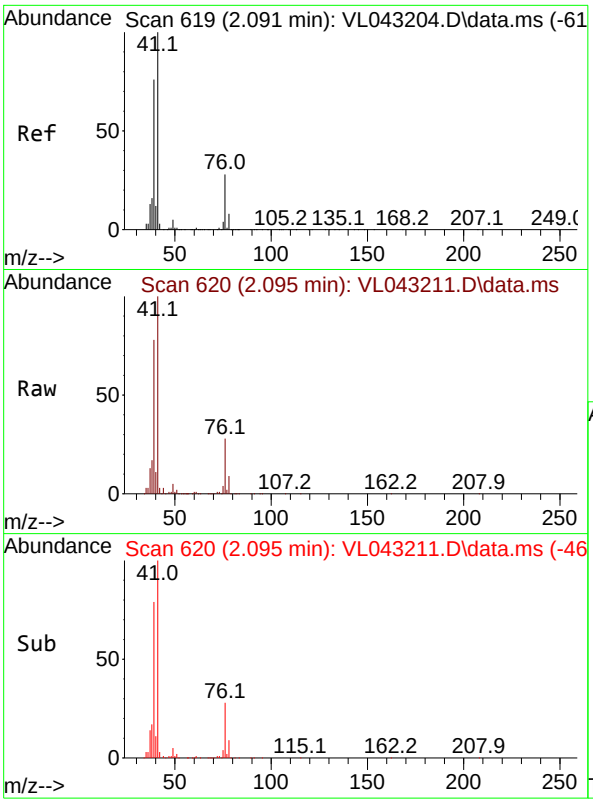


#20
Methylene Chloride
Concen: 10.323 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



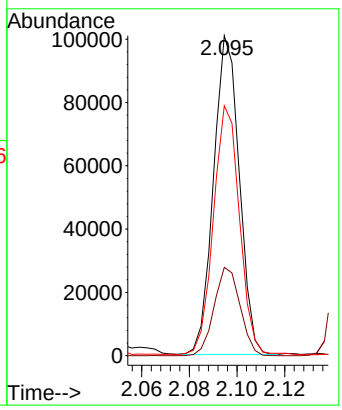


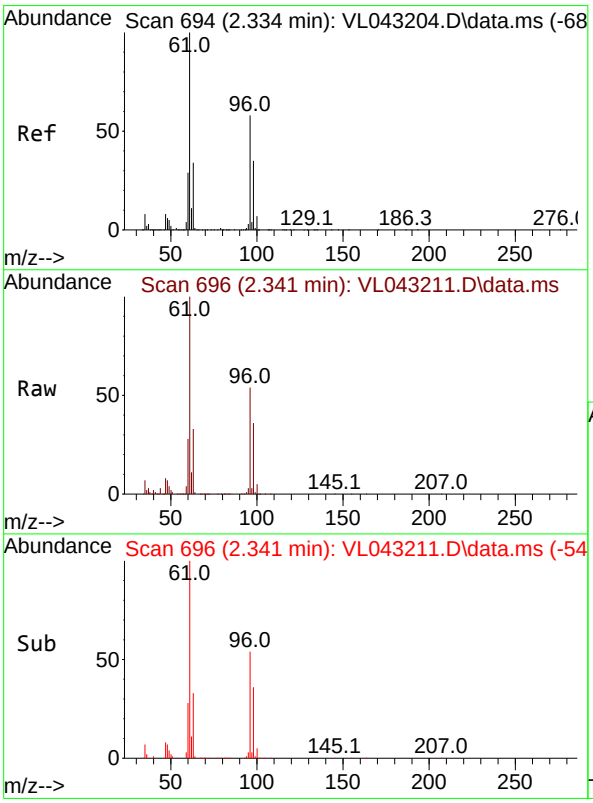
#21
Allyl Chloride
Concen: 8.256 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

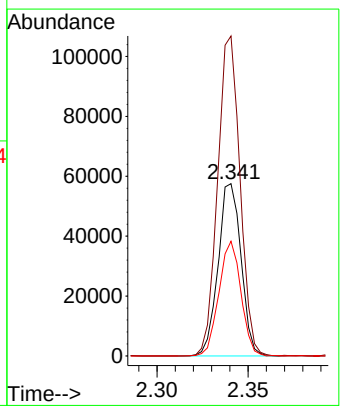


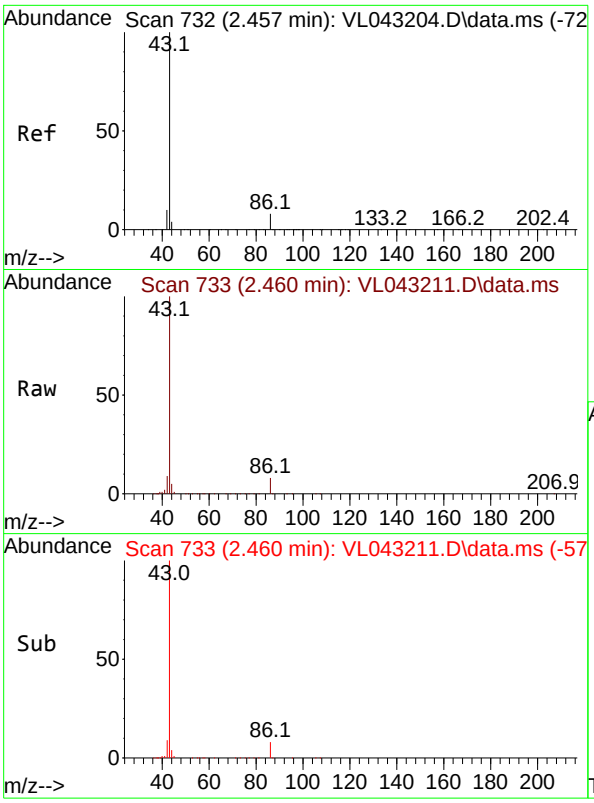


#22
trans-1,2-Dichloroethene
Concen: 9.041 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



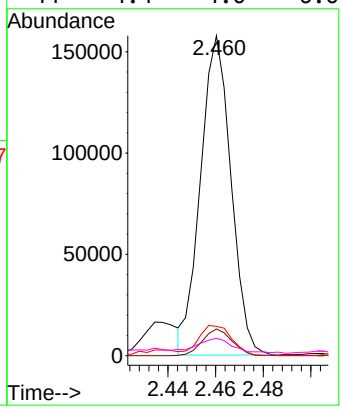


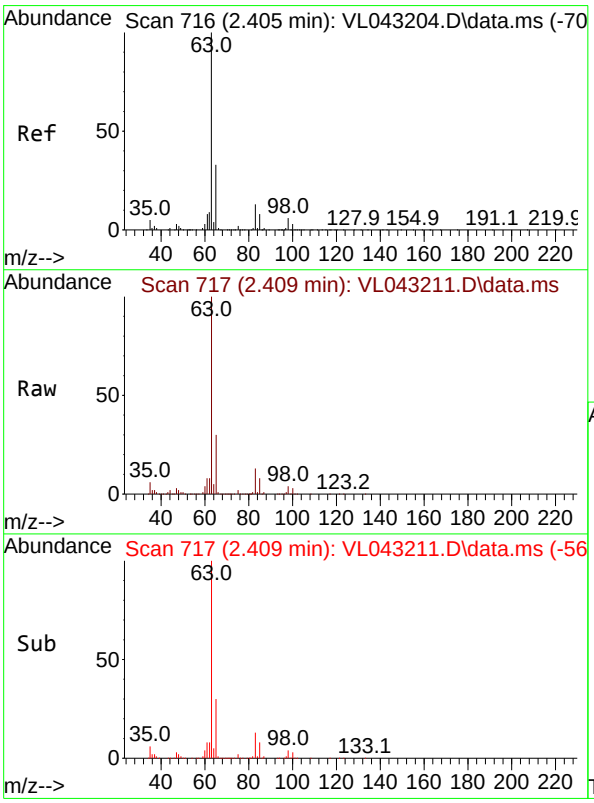
#23
Vinyl Acetate
Concen: 8.539 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

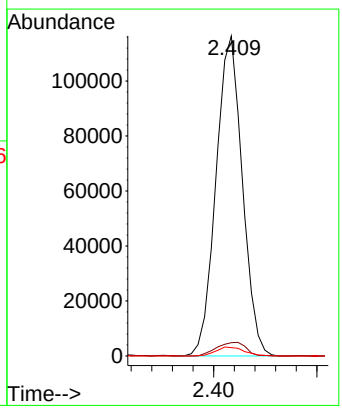


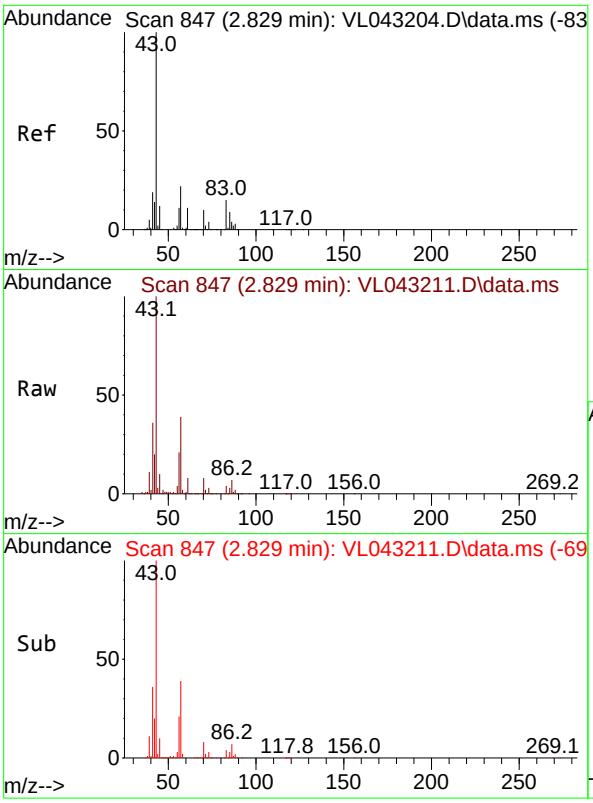


#24
1,1-Dichloroethane
Concen: 9.622 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



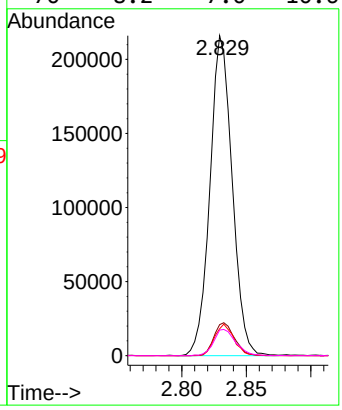


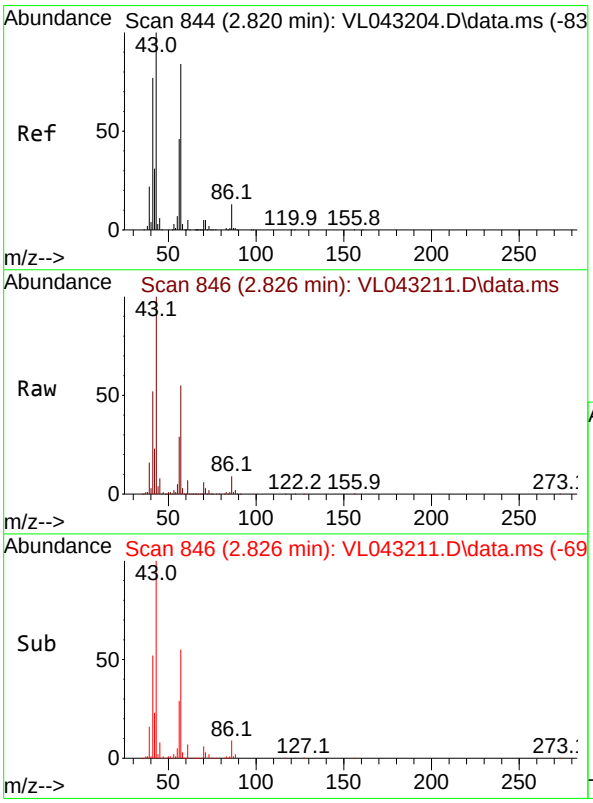
#25
Ethyl Acetate
Concen: 8.820 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

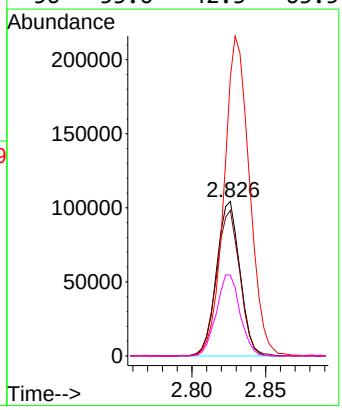


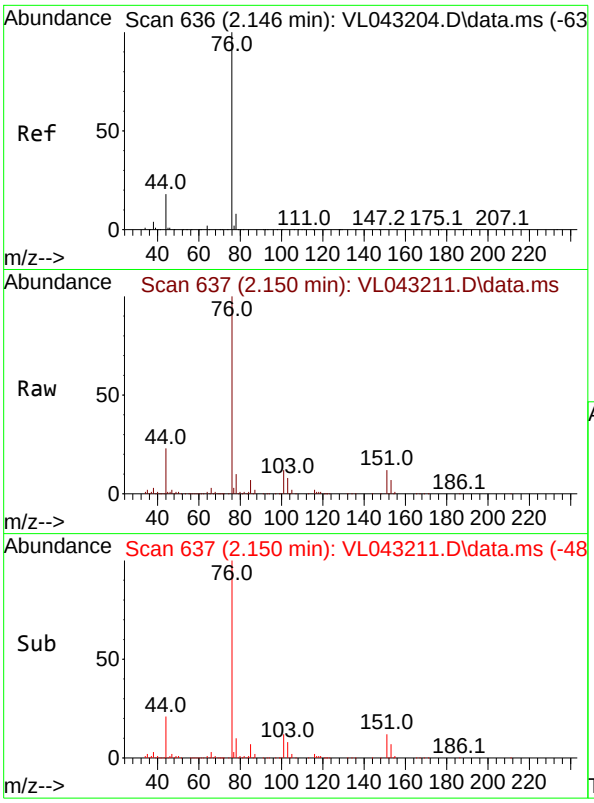


#26
Hexane
Concen: 8.892 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



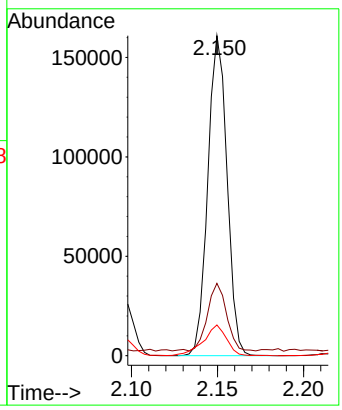


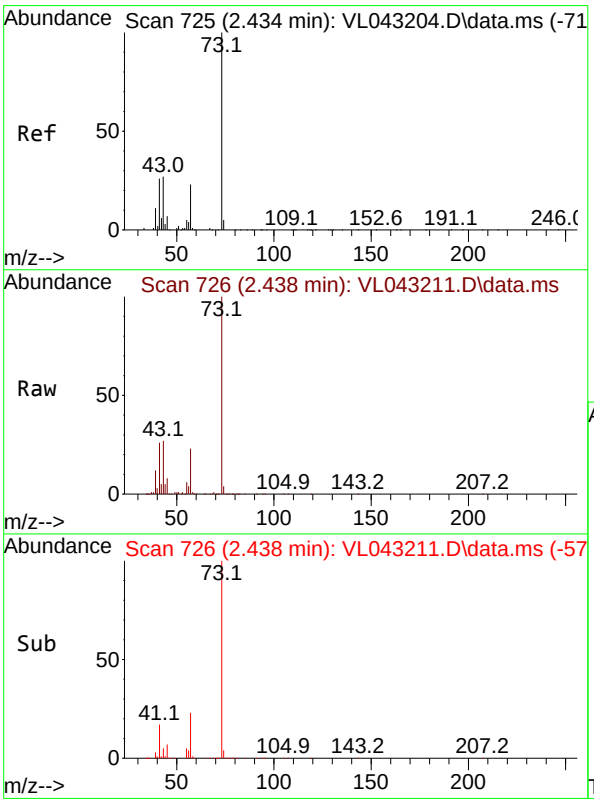
#27
Carbon Disulfide
Concen: 9.528 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

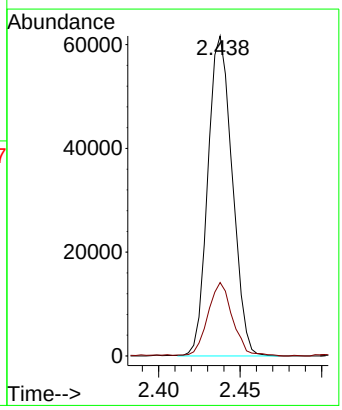


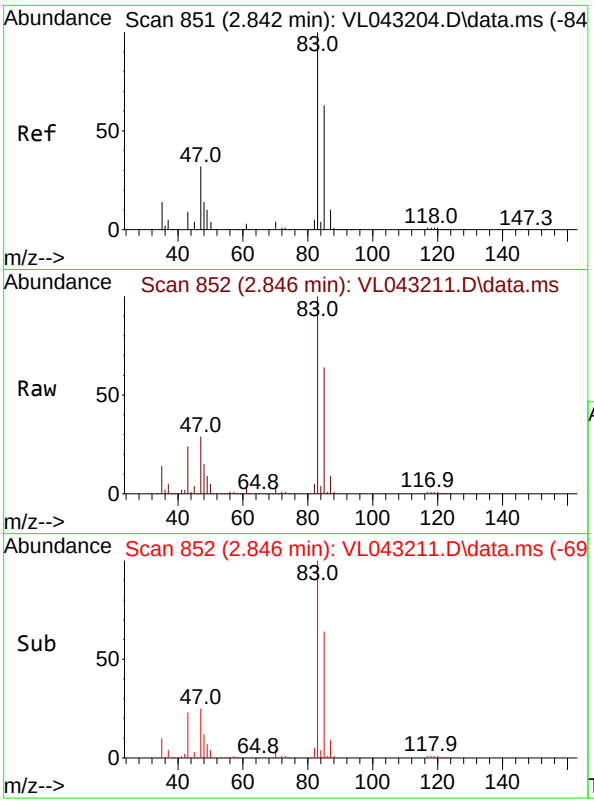


#28
Methyl tert-Butyl Ether
Concen: 10.171 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 73 Resp: 64183

Ion	Ratio	Lower	Upper
73	100		
57	23.6	19.8	29.8



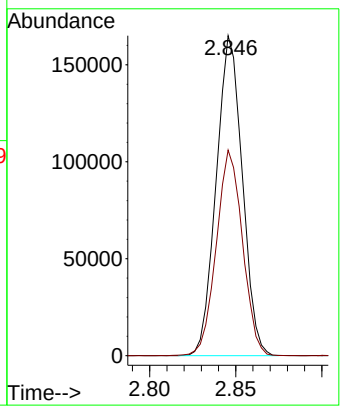


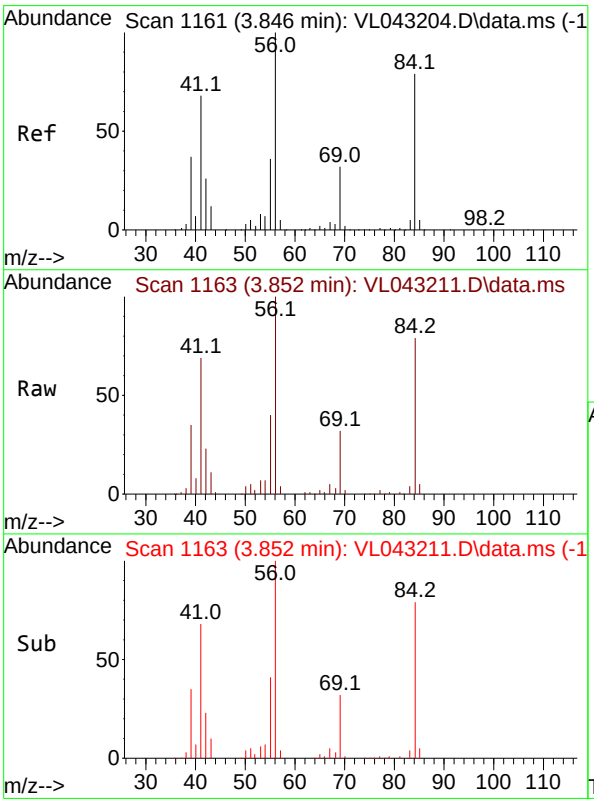
#29
Chloroform
Concen: 9.521 ppbv
RT: 2.846 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 83 Resp: 173977

Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.5	75.7

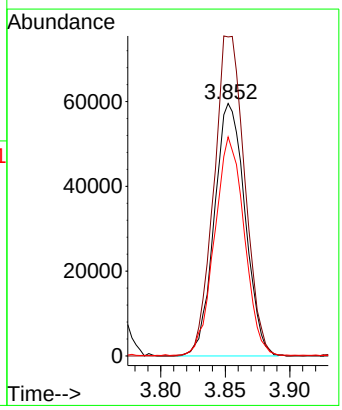


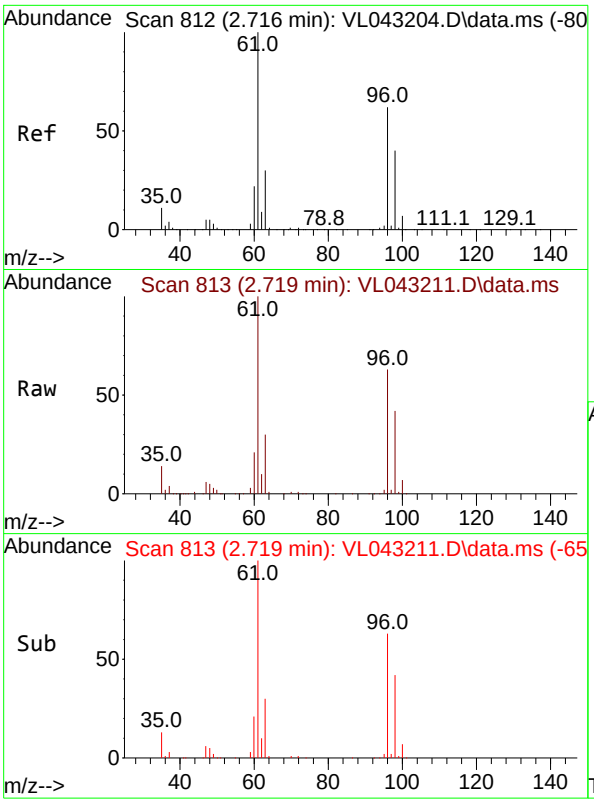


#30
Cyclohexane
Concen: 9.148 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



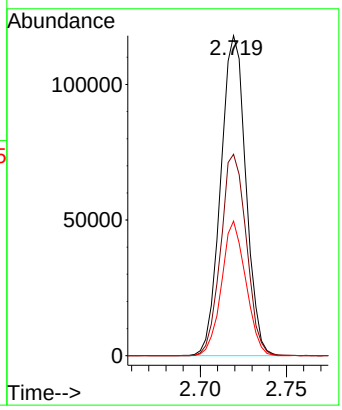


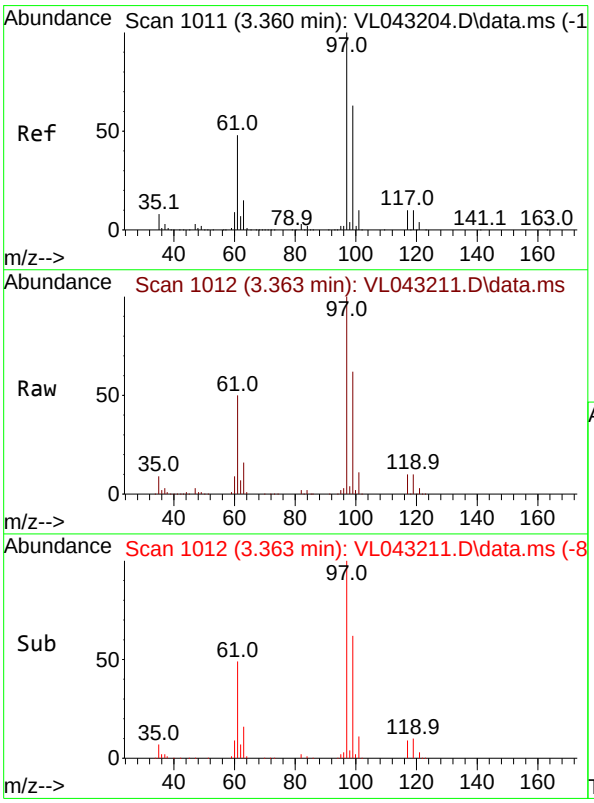
#31
cis-1,2-Dichloroethene
Concen: 9.379 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

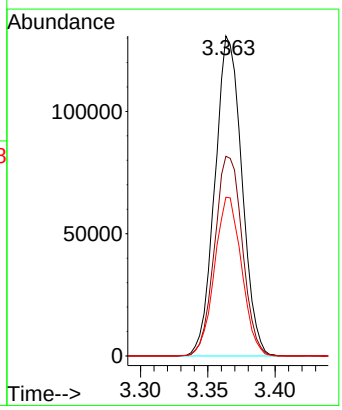


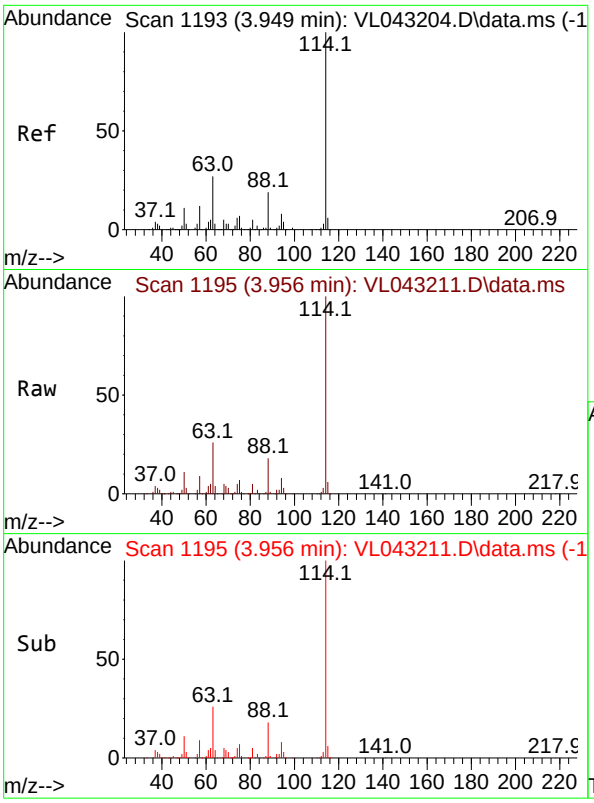


#32
1,1,1-Trichloroethane
Concen: 9.358 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



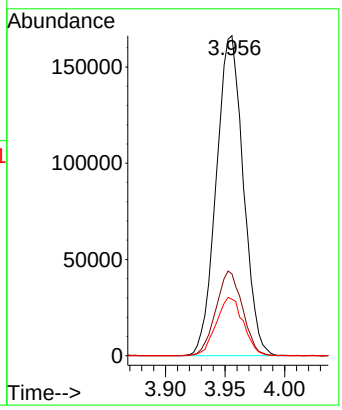


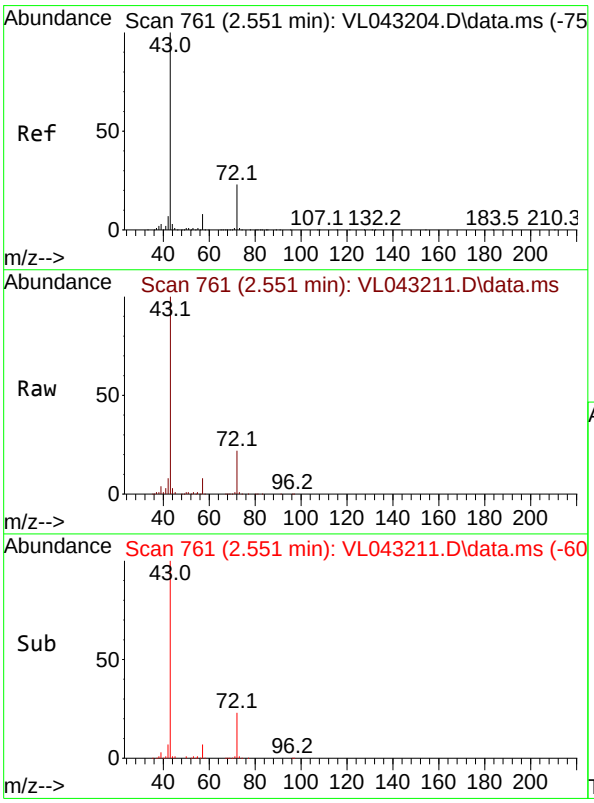
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

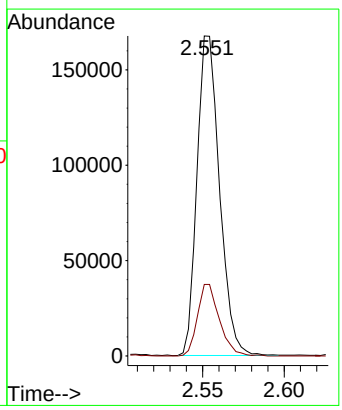


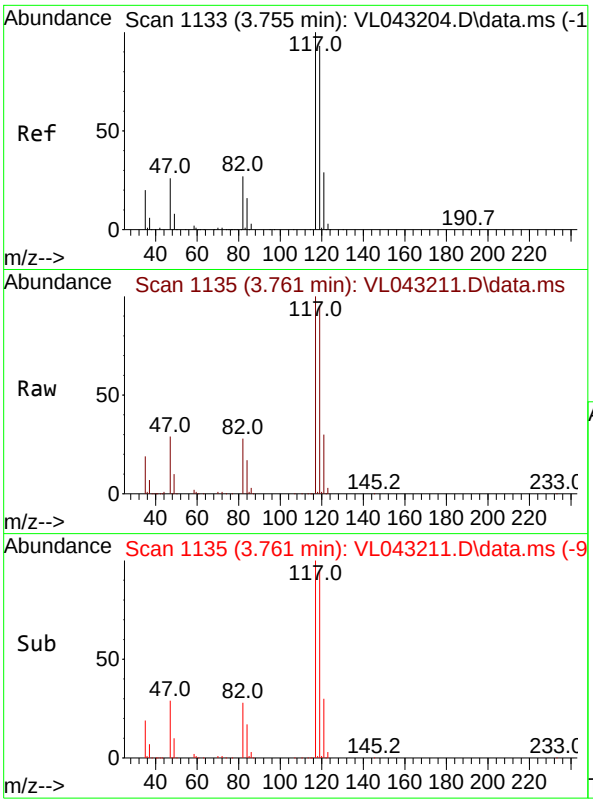


#34
2-Butanone
Concen: 8.707 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 160977

Ion	Ratio	Lower	Upper
43	100		
72	21.8	18.1	27.1



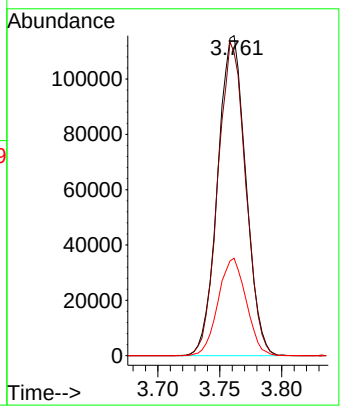


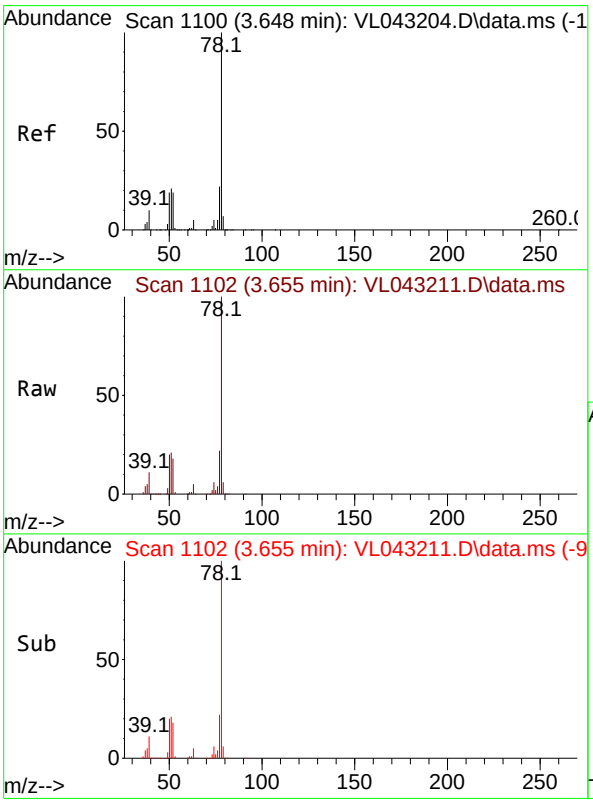
#35
Carbon Tetrachloride
Concen: 9.200 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

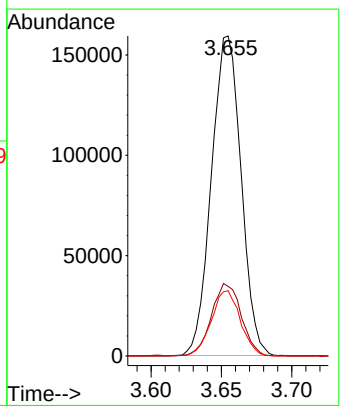


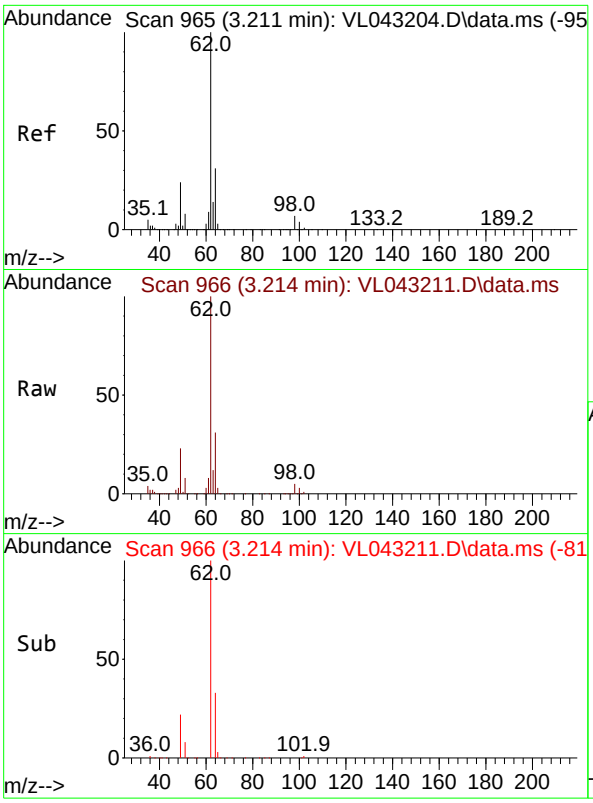


#36
Benzene
Concen: 9.293 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



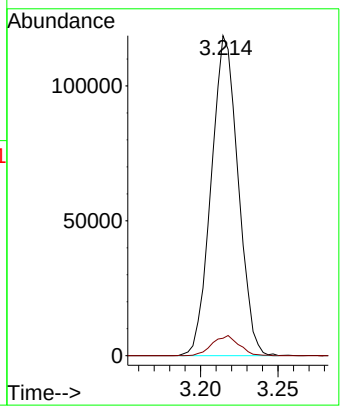


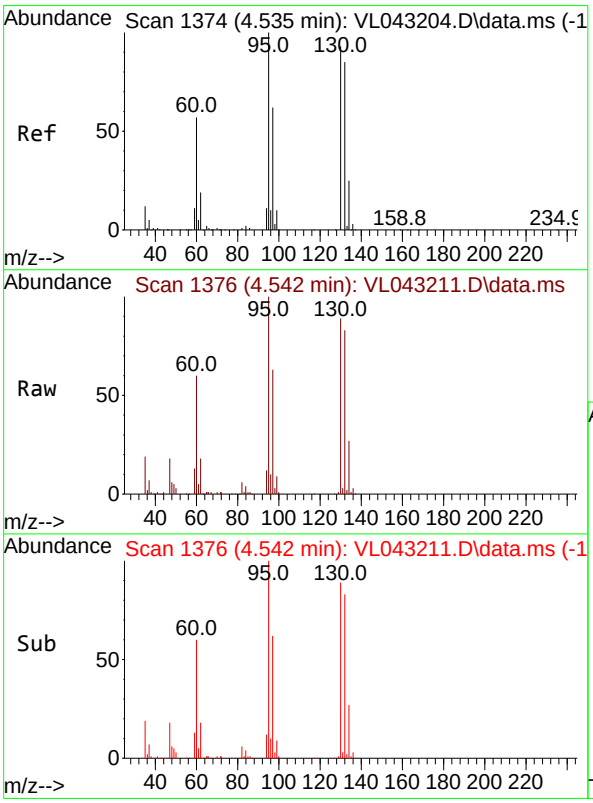
#37
1,2-Dichloroethane
Concen: 9.772 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 62 Resp: 143363

Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.5	8.3

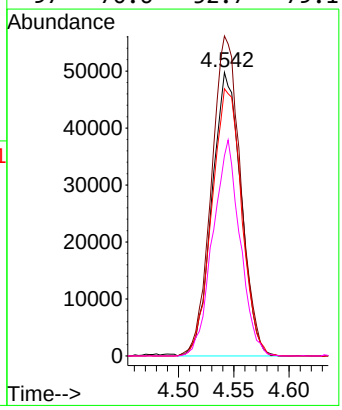


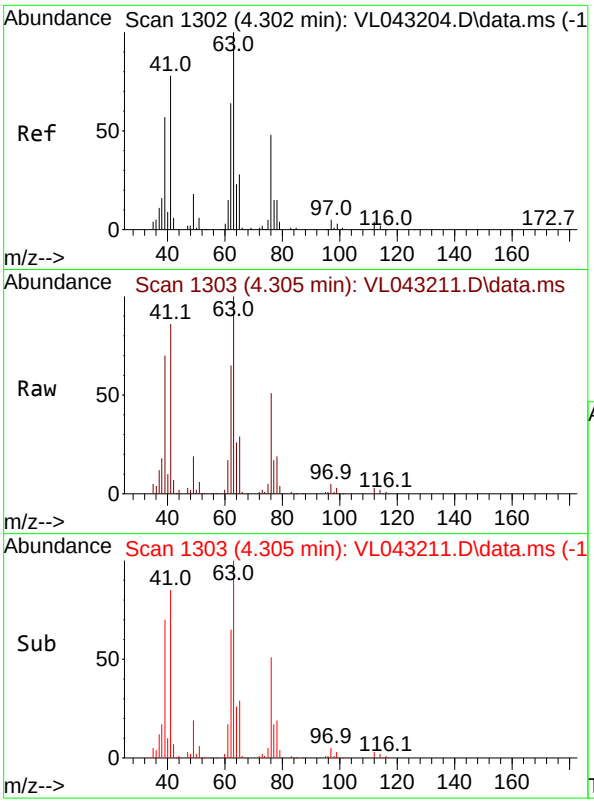


#38
Trichloroethene
Concen: 9.272 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



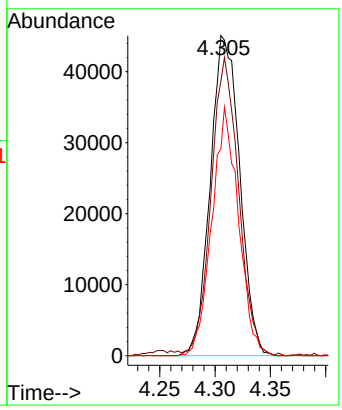


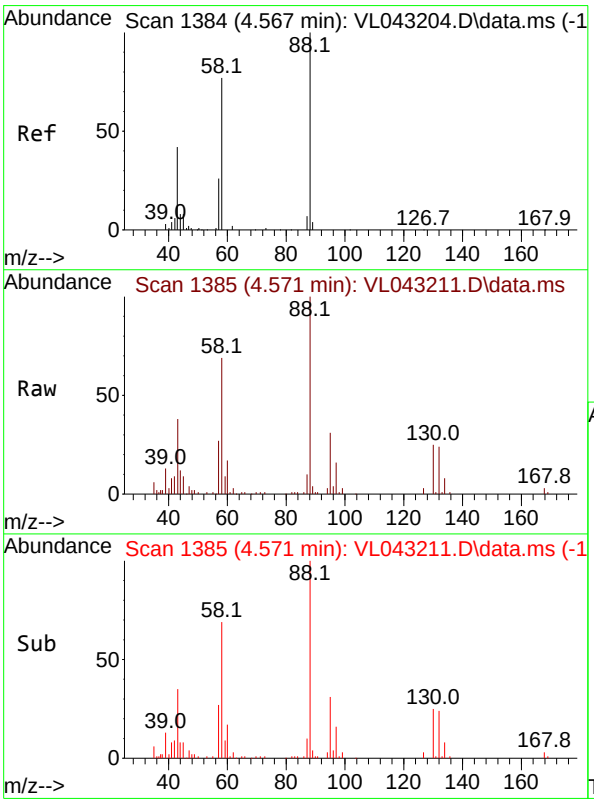
#39
1,2-Dichloropropane
Concen: 9.086 ppbv
RT: 4.305 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

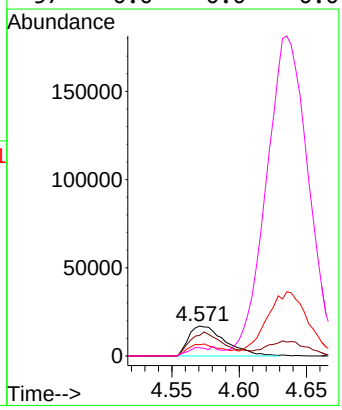


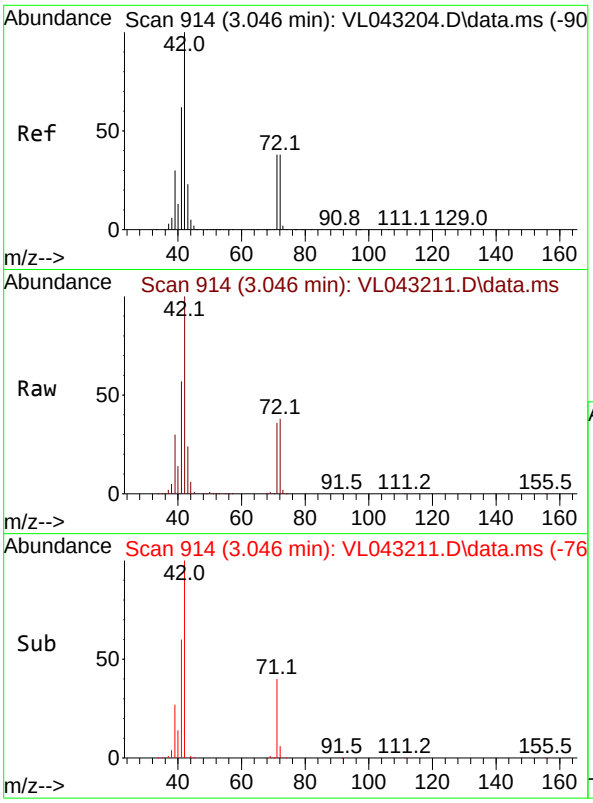


#40
1,4-Dioxane
Concen: 7.780 ppbv
RT: 4.571 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



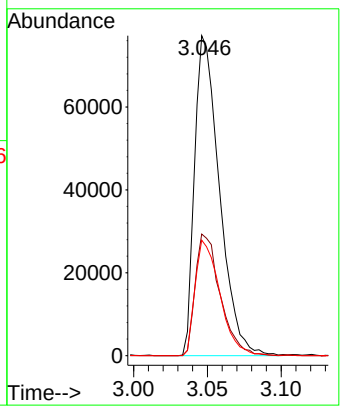


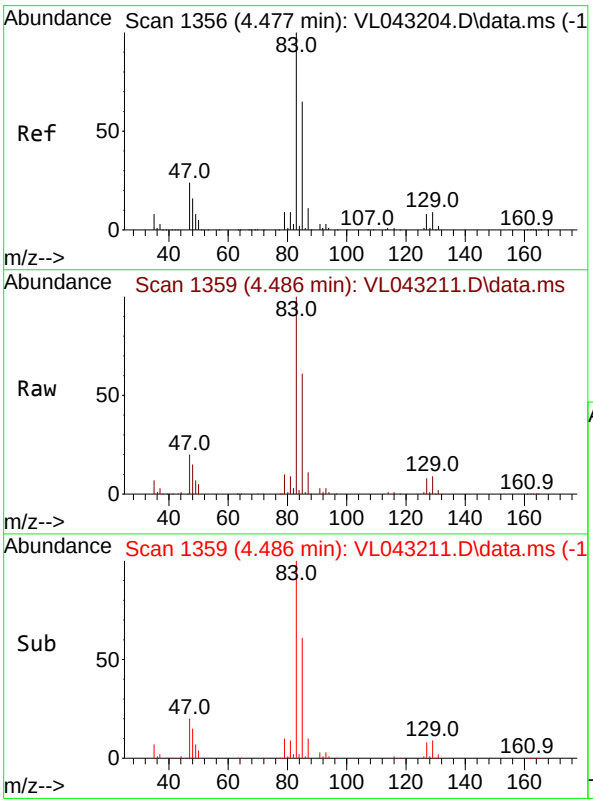
#41
Tetrahydrofuran
Concen: 8.891 ppbv
RT: 3.046 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

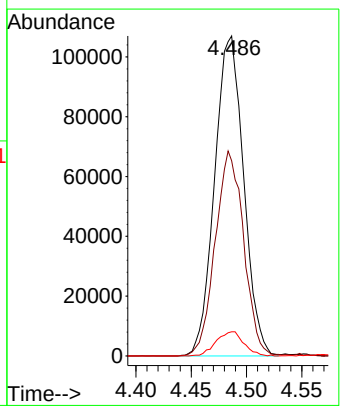


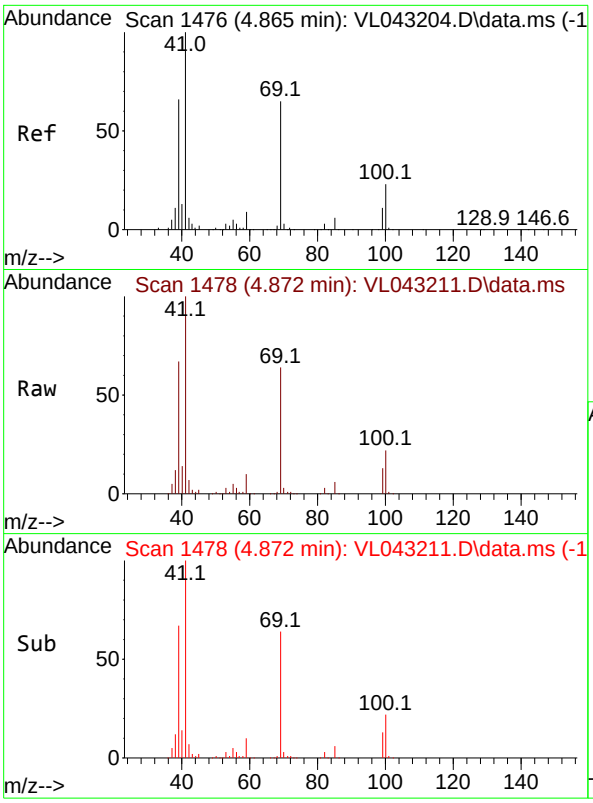


#42
Bromodichloromethane
Concen: 9.657 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



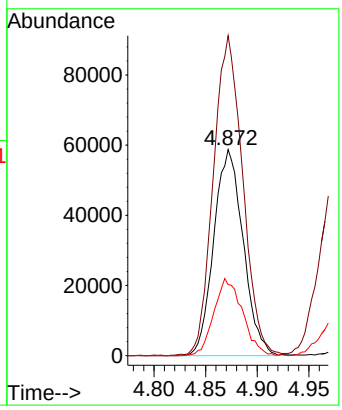


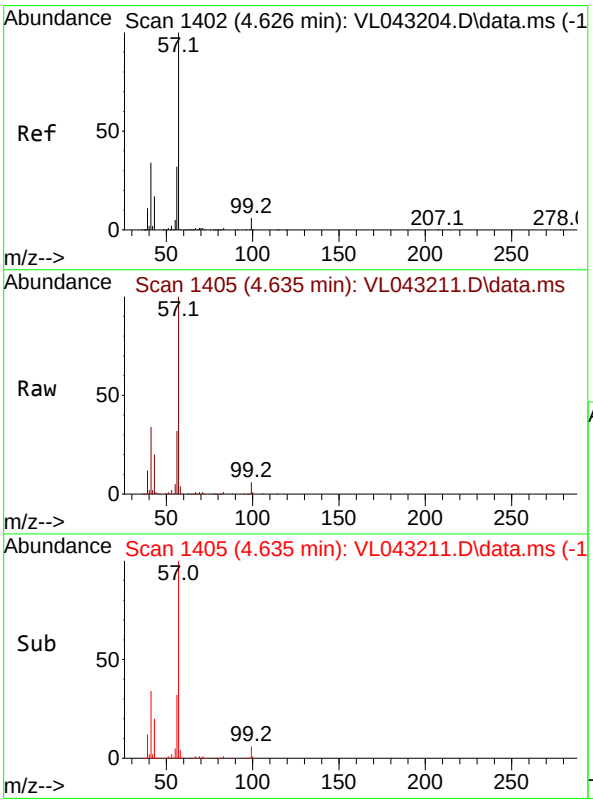
#43
Methyl Methacrylate
Concen: 8.737 ppbv
RT: 4.872 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

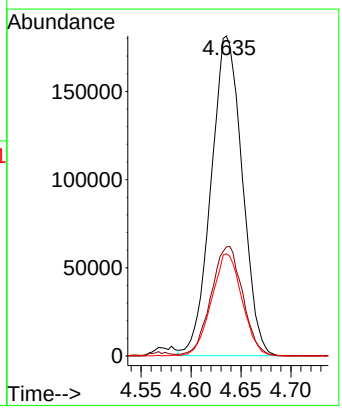


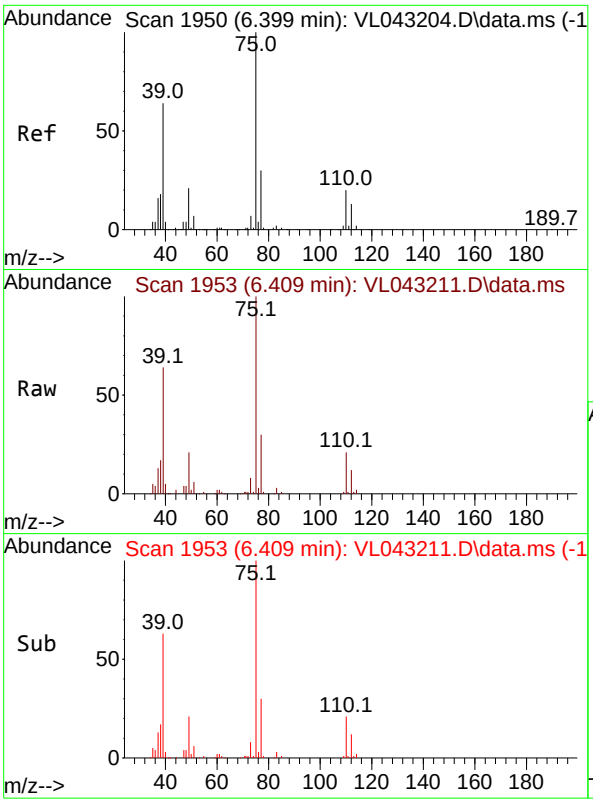


#44
2,2,4-Trimethylpentane
Concen: 9.133 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



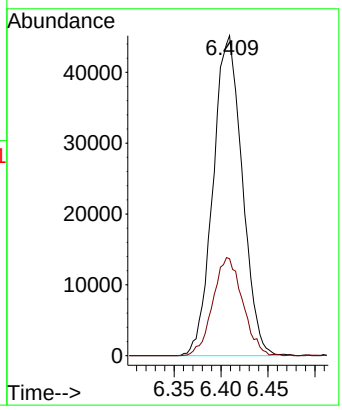


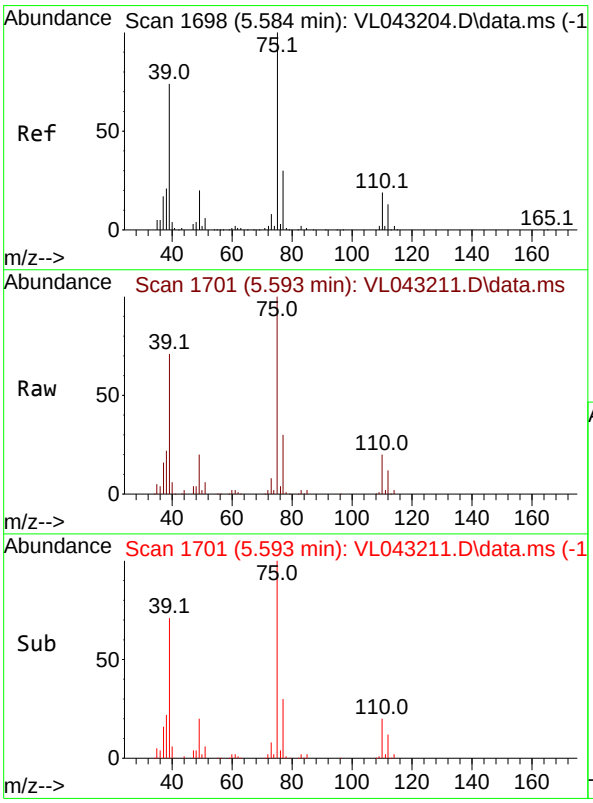
#45
t-1,3-Dichloropropene
Concen: 7.863 ppbv
RT: 6.409 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 75 Resp: 97587

Ion	Ratio	Lower	Upper
75	100		
77	30.3	24.3	36.5

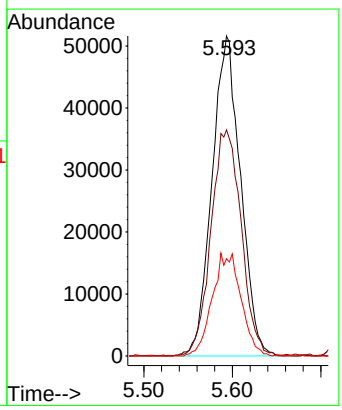


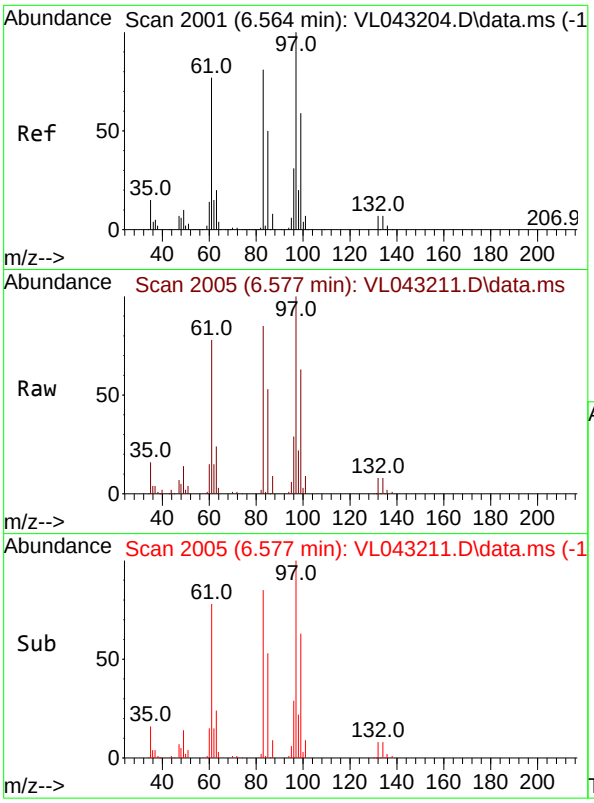


#46
cis-1,3-Dichloropropene
Concen: 7.924 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



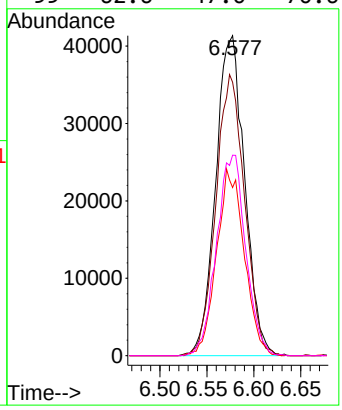


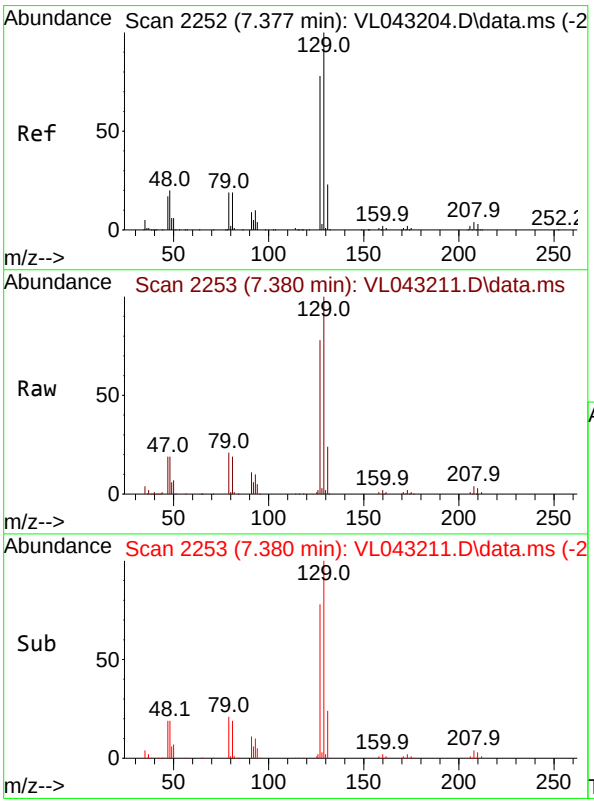
#47
1,1,2-Trichloroethane
Concen: 9.086 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

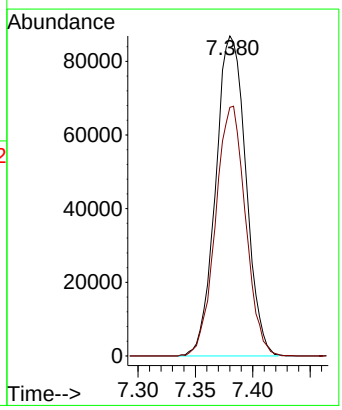


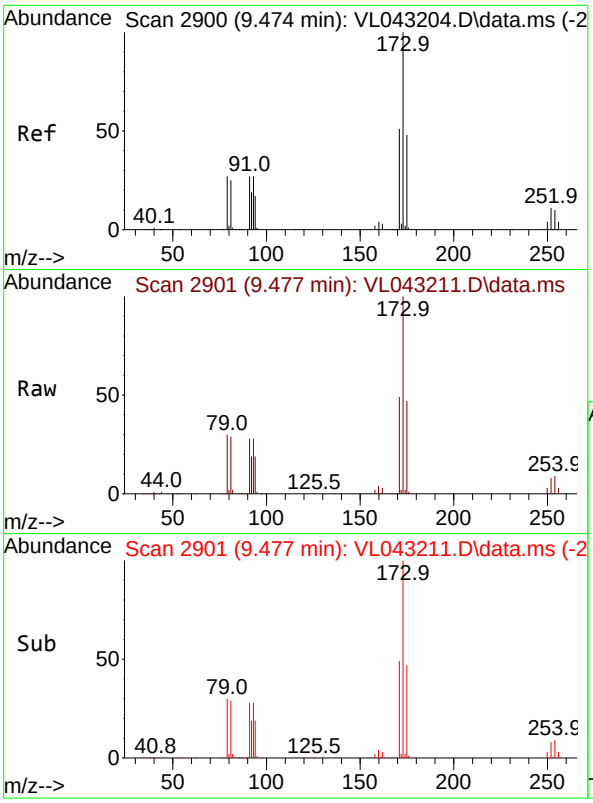


#48
Dibromochloromethane
Concen: 9.514 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:129 Resp: 159365

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.3	117.9



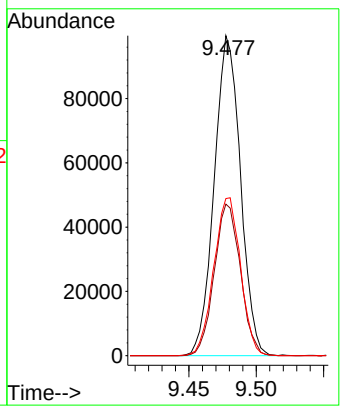


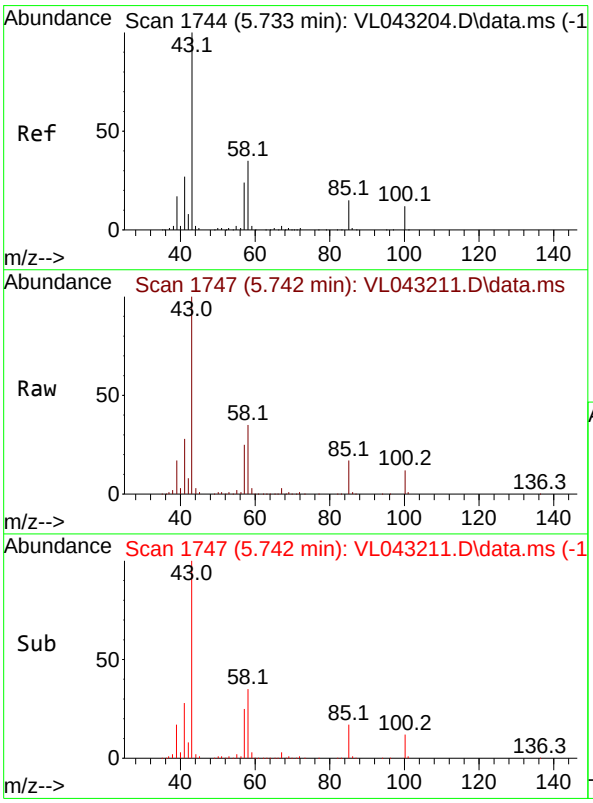
#49
Bromoform
Concen: 9.085 ppbv
RT: 9.477 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

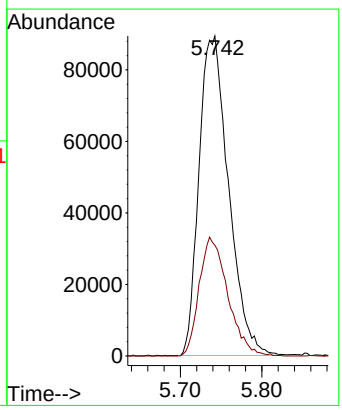


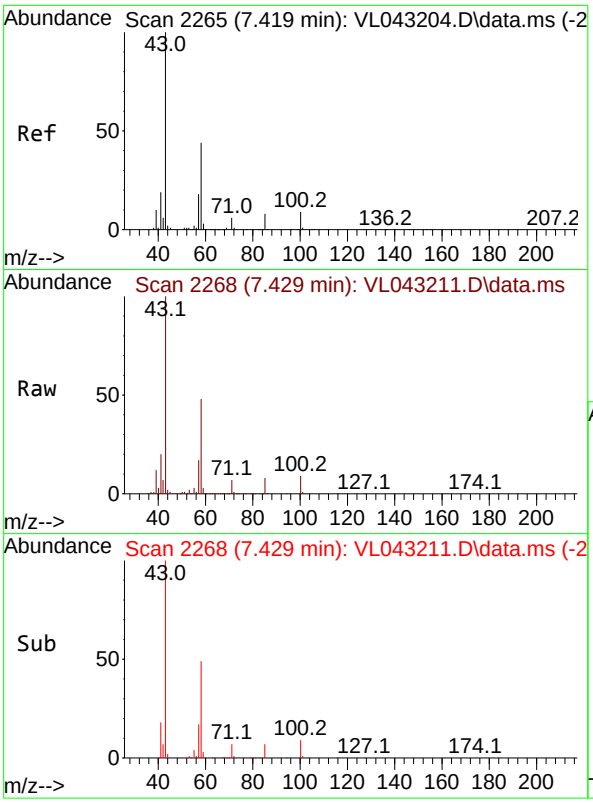


#50
4-Methyl-2-Pentanone
Concen: 8.631 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 224791

Ion	Ratio	Lower	Upper
43	100		
58	36.0	28.4	42.6



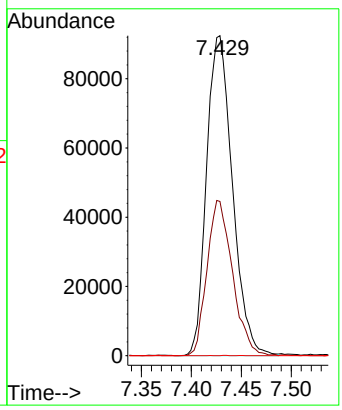


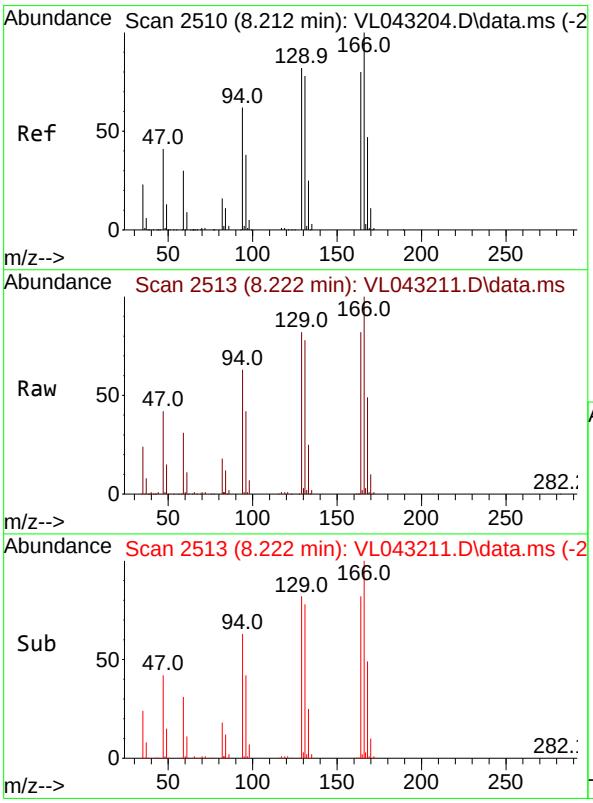
#51
2-Hexanone
Concen: 8.233 ppbv
RT: 7.429 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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#

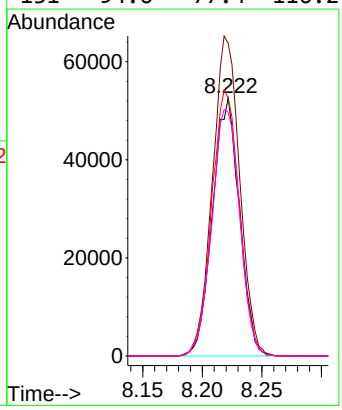


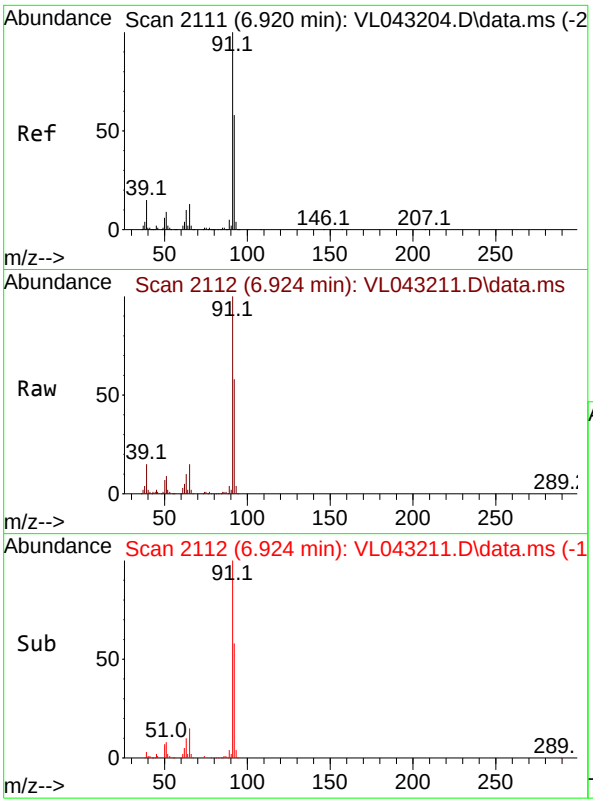


#52
Tetrachloroethene
Concen: 8.884 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



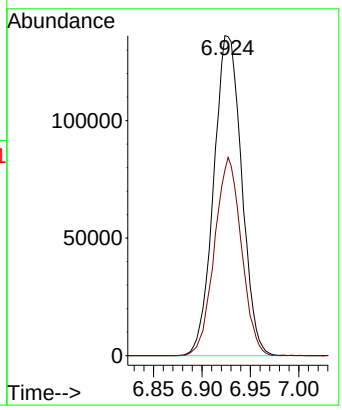


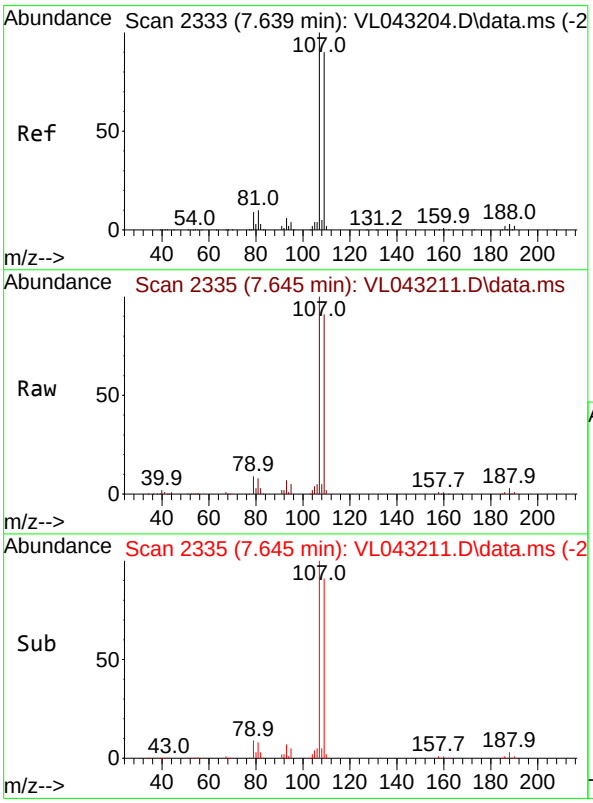
#53
Toluene
Concen: 9.197 ppbv
RT: 6.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 91 Resp: 273172

Ion	Ratio	Lower	Upper
91	100		
92	59.8	47.4	71.0

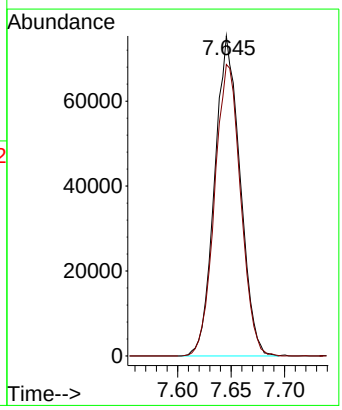


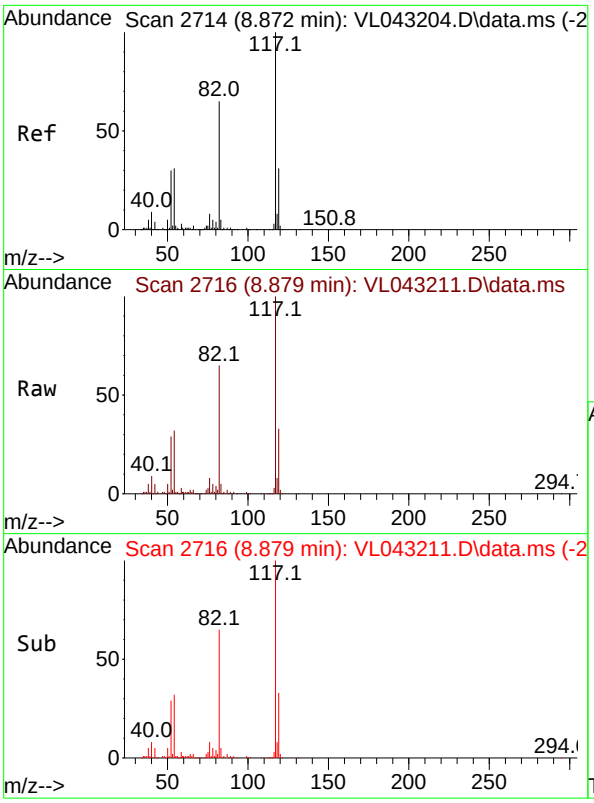


#54
1,2-Dibromoethane
Concen: 8.705 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:107 Resp: 124804

Ion	Ratio	Lower	Upper
107	100		
109	91.1	72.1	108.1



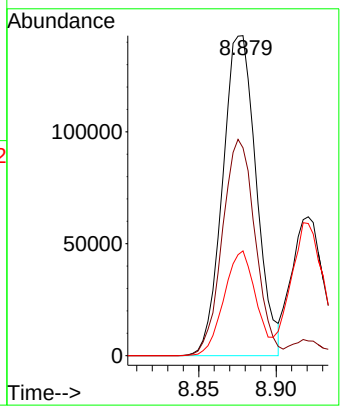


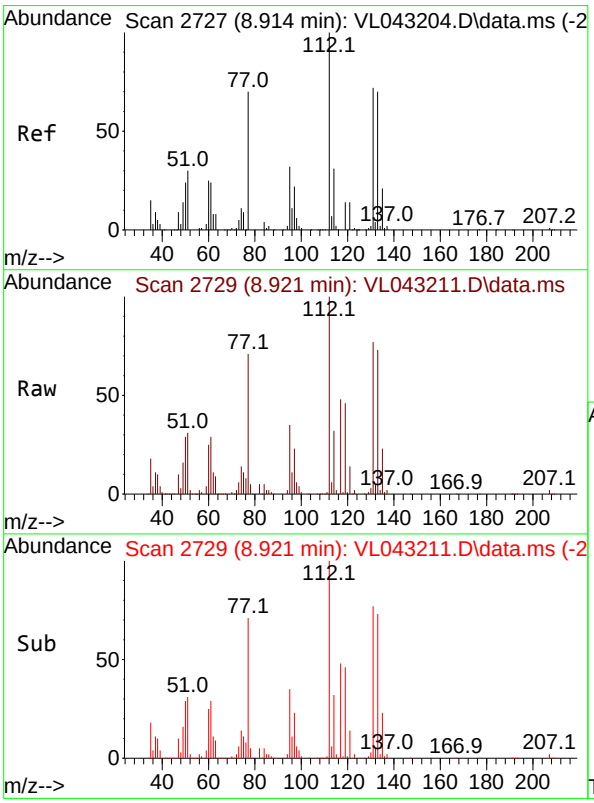
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

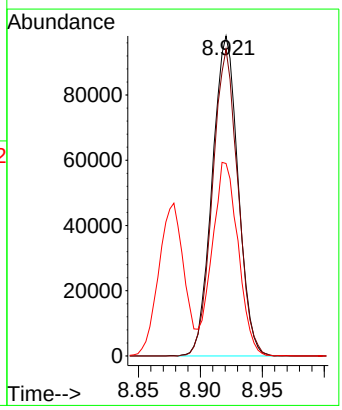


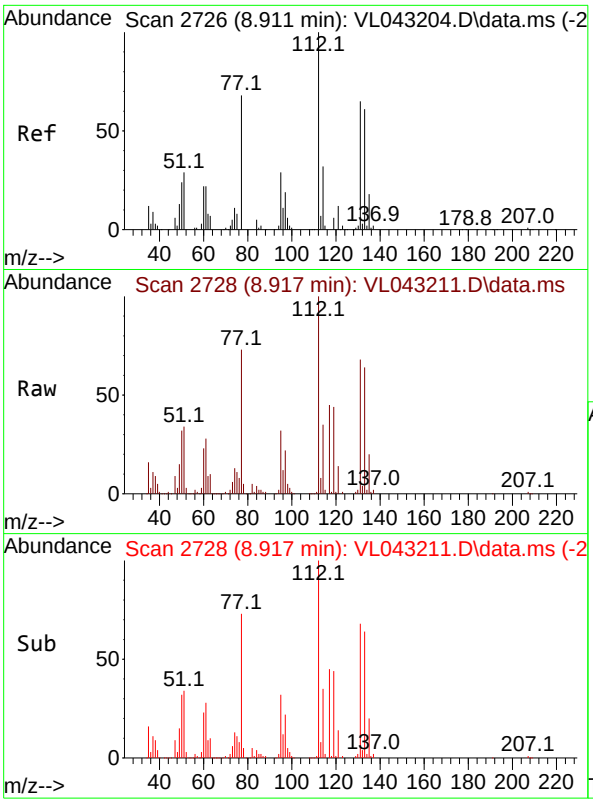


#56
1,1,1,2-Tetrachloroethane
Concen: 8.969 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



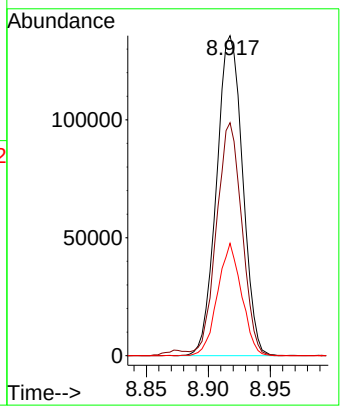


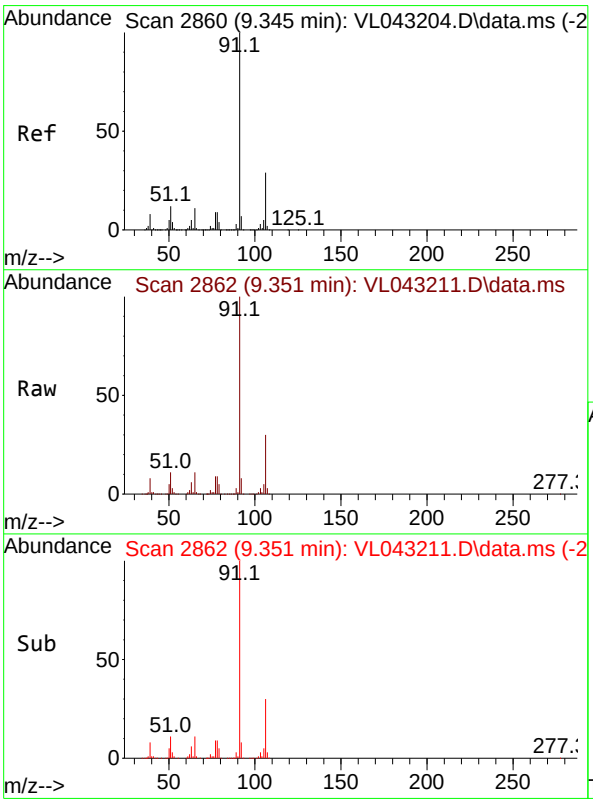
#57
Chlorobenzene
Concen: 8.981 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

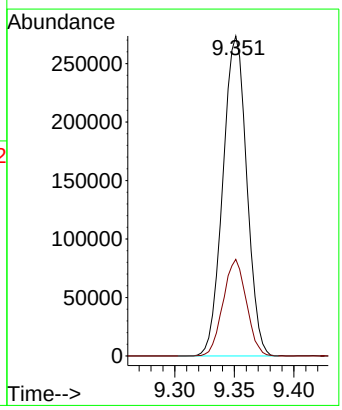


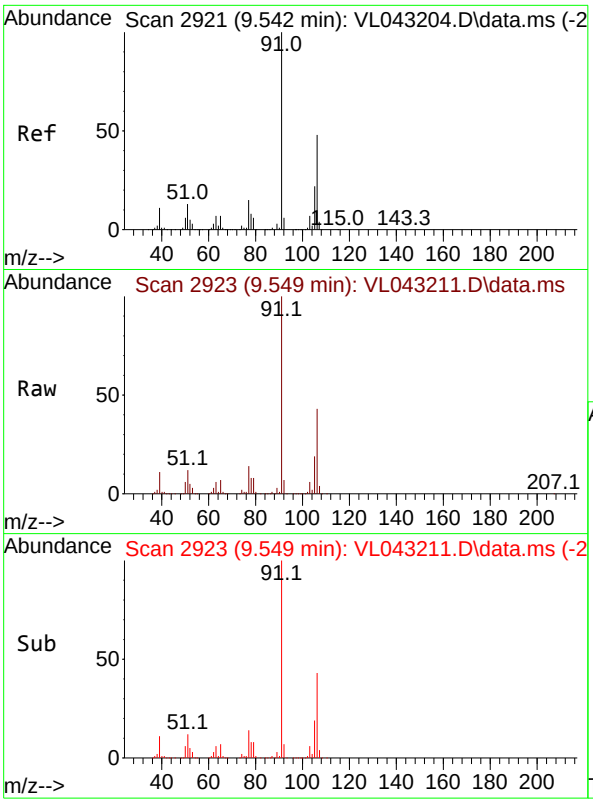


#58
Ethyl Benzene
Concen: 9.167 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 381474

Ion	Ratio	Lower	Upper
91	100		
106	30.2	22.8	34.2



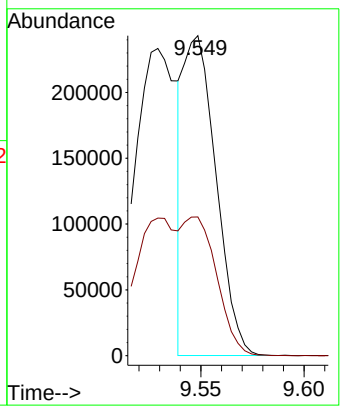


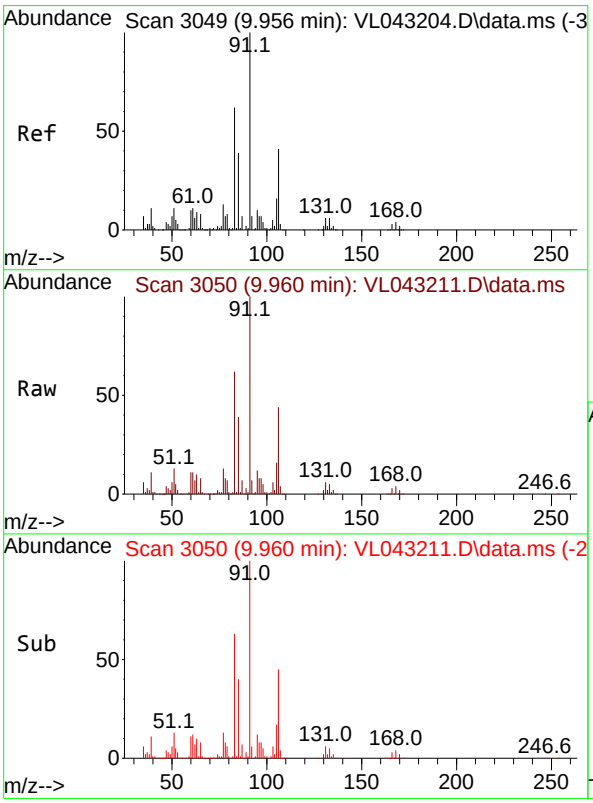
#59
m/p-Xylene
Concen: 7.957 ppbv
RT: 9.549 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 91 Resp: 265475

Ion	Ratio	Lower	Upper
91	100		
106	102.0	36.1	54.1#

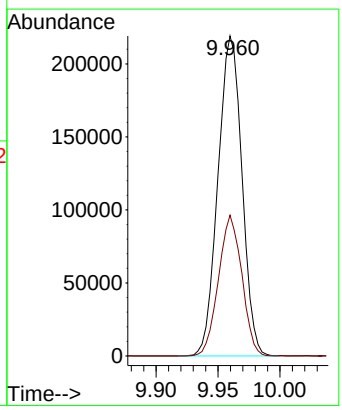


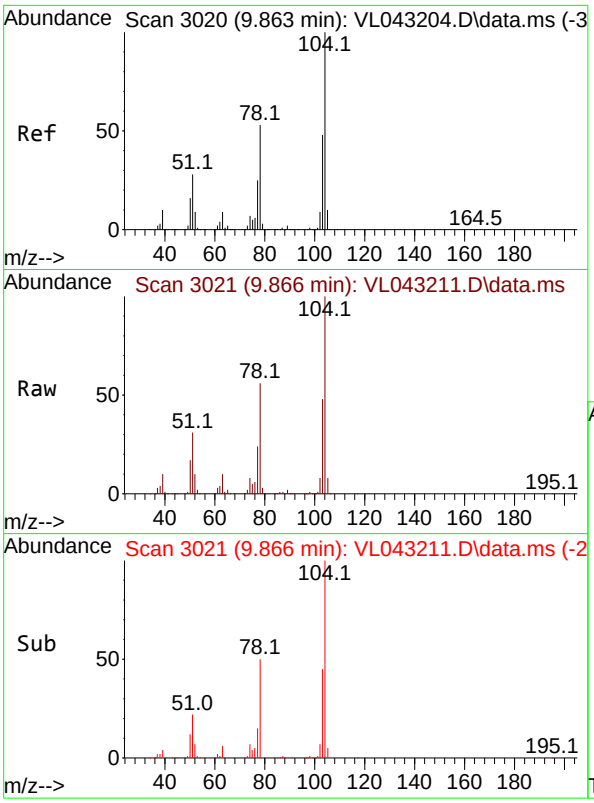


#60
o-Xylene
Concen: 8.876 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 295836

Ion	Ratio	Lower	Upper
91	100		
106	42.8	20.9	62.8



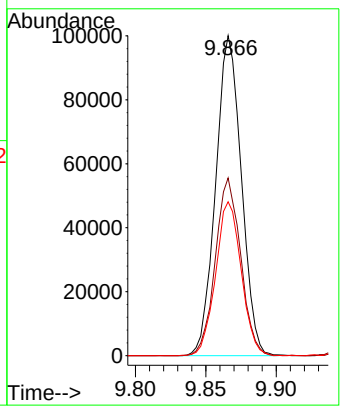


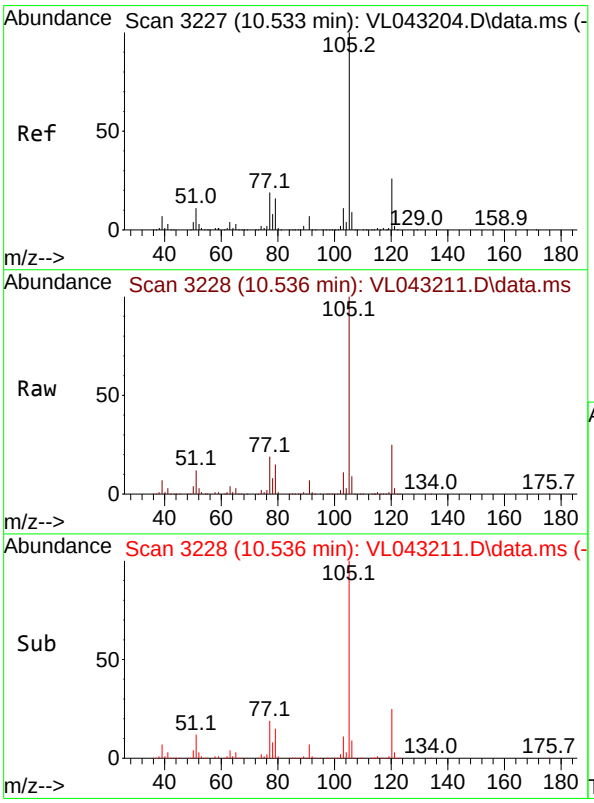
#61
Styrene
Concen: 8.714 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

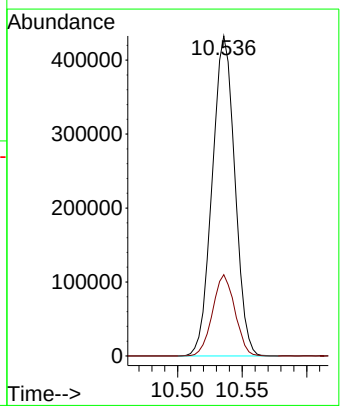


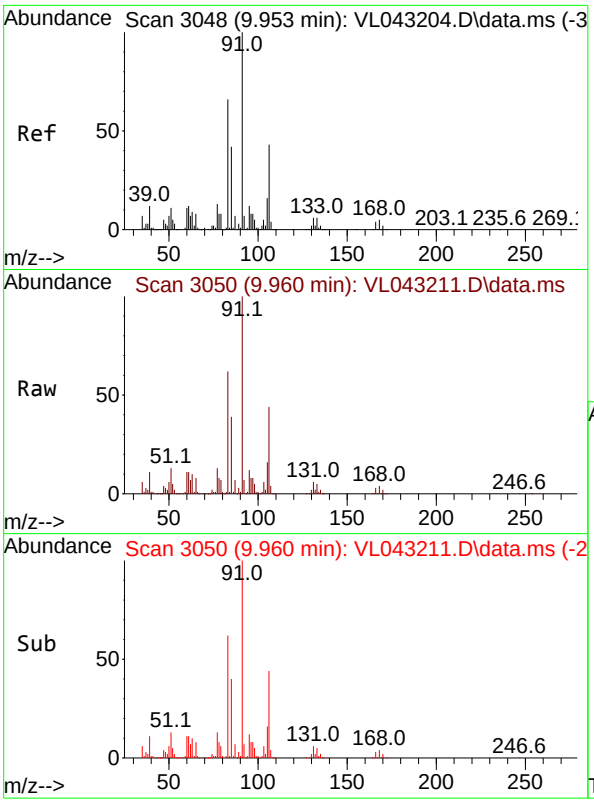


#62
Isopropylbenzene
Concen: 8.816 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:105 Resp: 525717

Ion	Ratio	Lower	Upper
105	100		
120	25.1	19.8	29.8



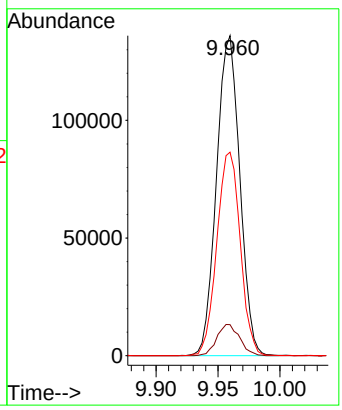


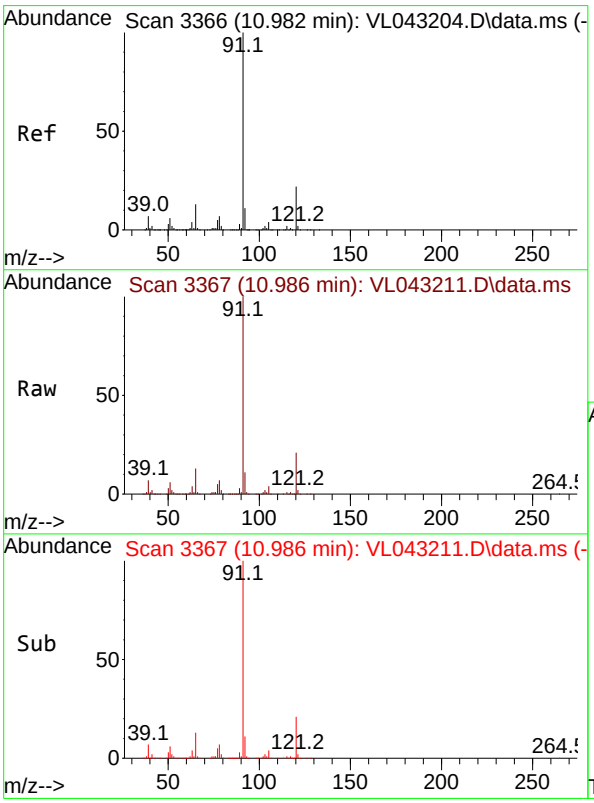
#63
1,1,2,2-Tetrachloroethane
Concen: 8.421 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

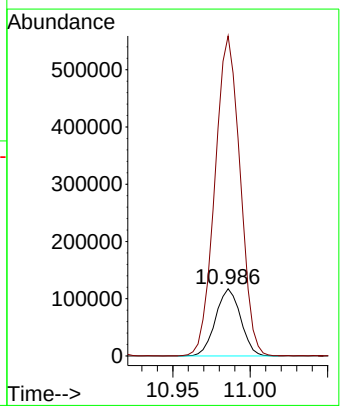


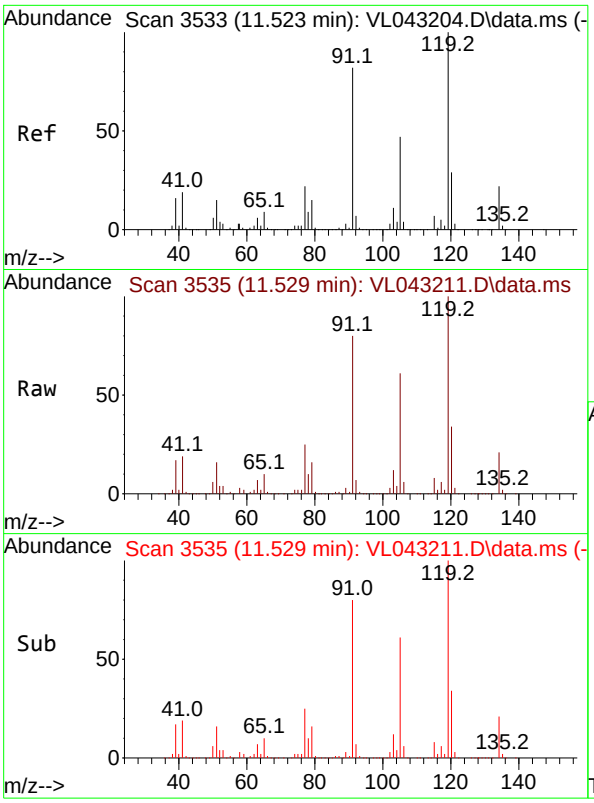


#64
n-propylbenzene
Concen: 8.591 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:120 Resp: 131634

Ion	Ratio	Lower	Upper
120	100		
91	482.2	377.1	565.7



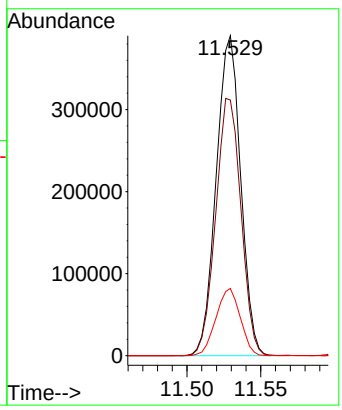


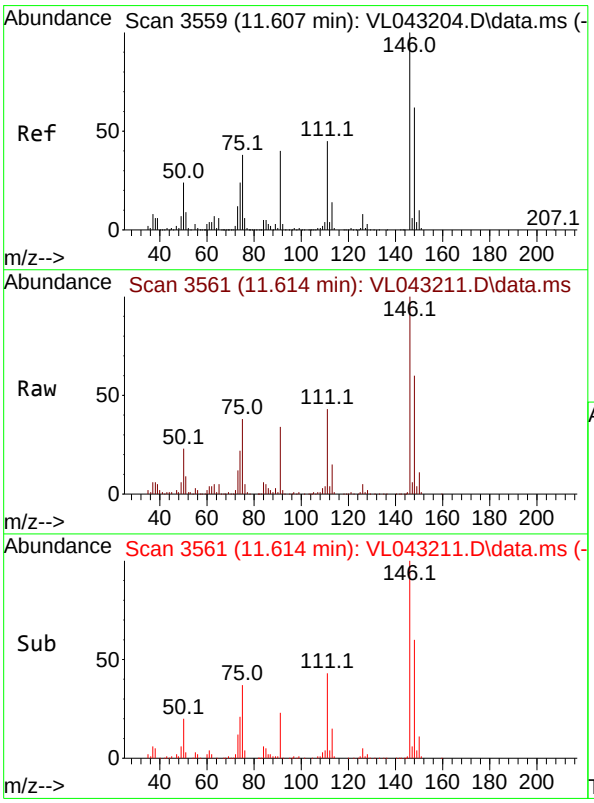
#65
tert-Butylbenzene
Concen: 8.465 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

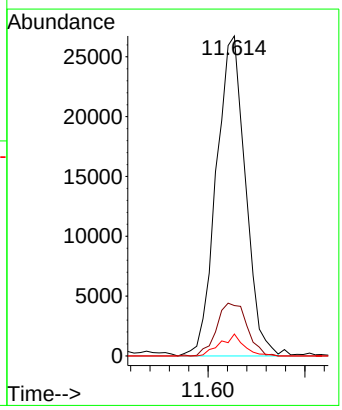


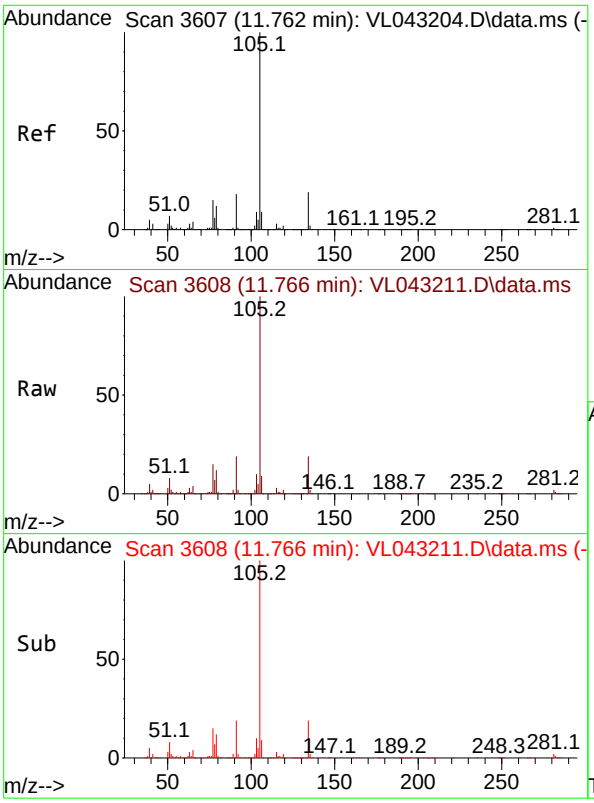


#66
Benzyl Chloride
Concen: 5.159 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



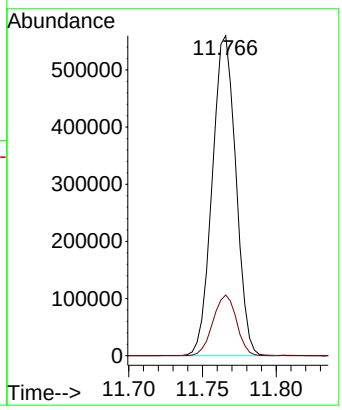


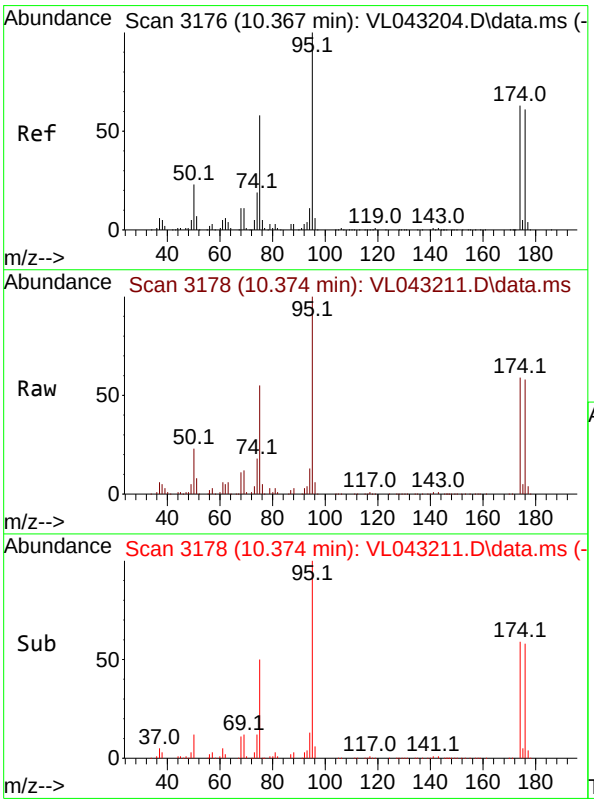
#67
sec-Butylbenzene
Concen: 8.388 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:105 Resp: 623520

Ion	Ratio	Lower	Upper
105	100		
134	19.0	15.0	22.6

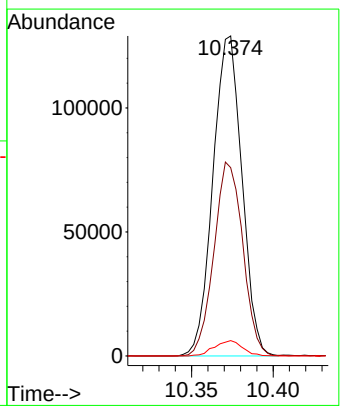


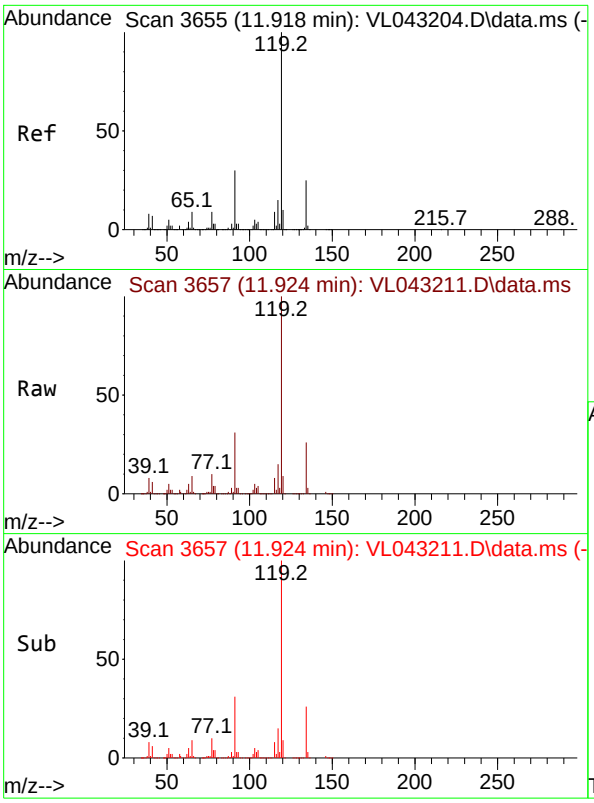


#68
1-Bromo-4-Fluorobenzene
Concen: 10.048 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



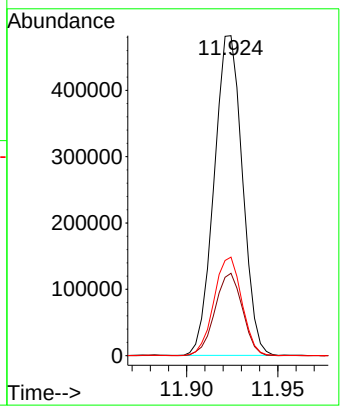


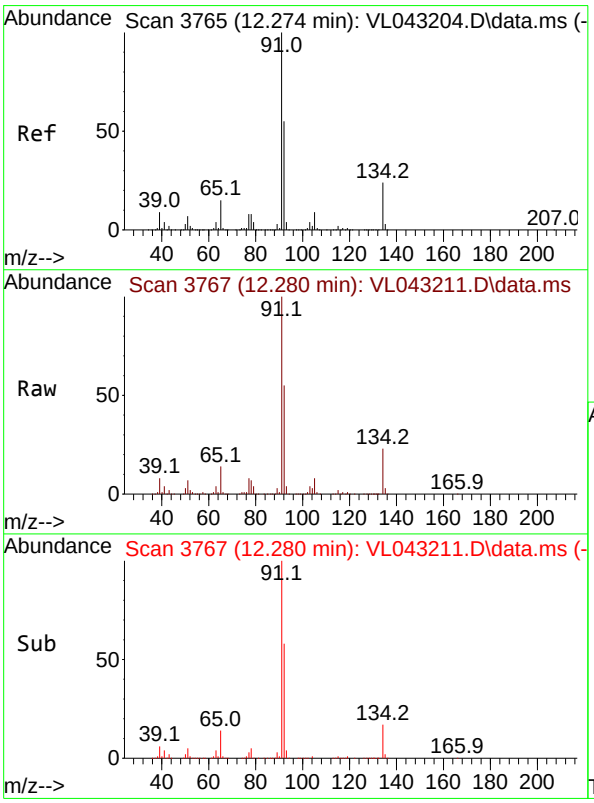
#69
p-Isopropyltoluene
Concen: 8.272 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

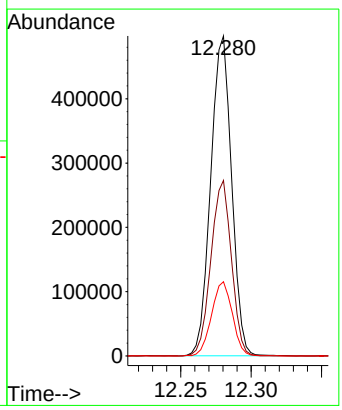


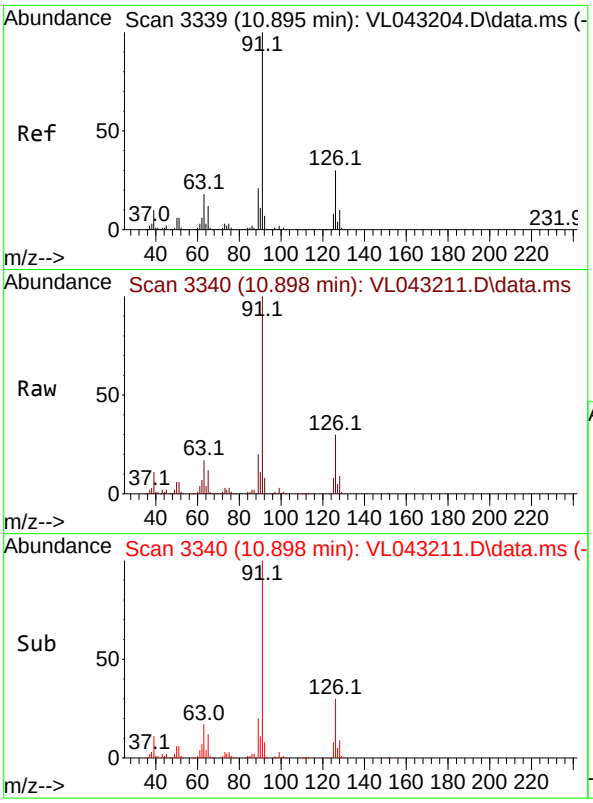


#70
n-Butylbenzene
Concen: 8.398 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



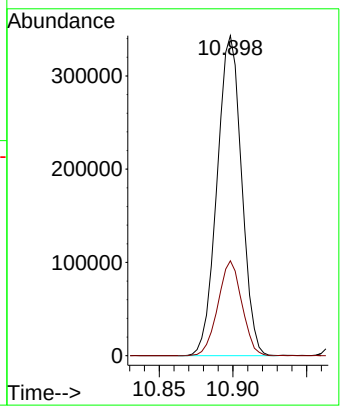


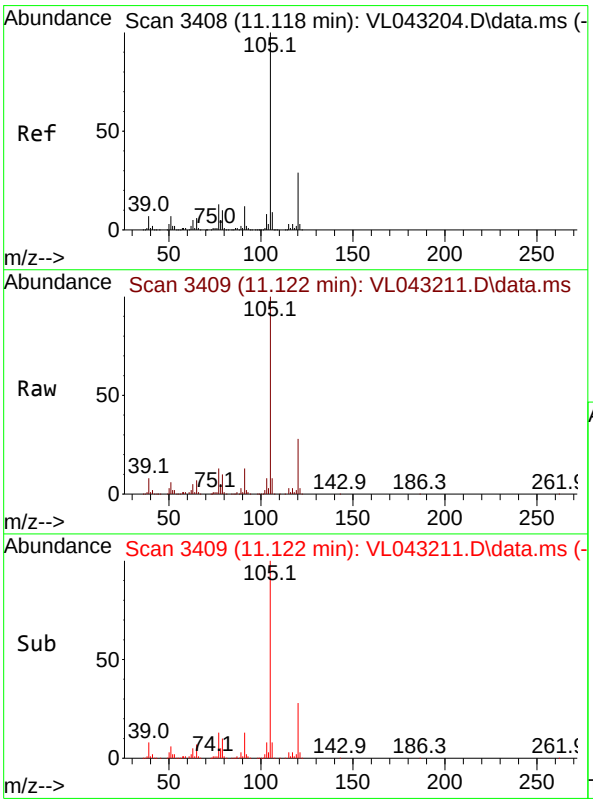
#71
2-Chlorotoluene
Concen: 8.649 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 91 Resp: 396434

Ion	Ratio	Lower	Upper
91	100		
126	28.9	11.7	46.7

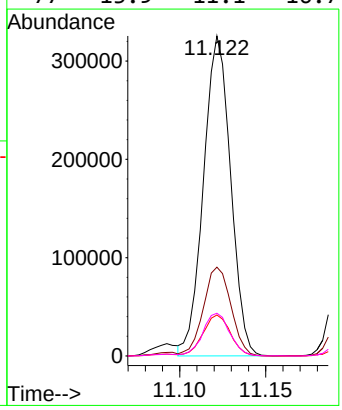


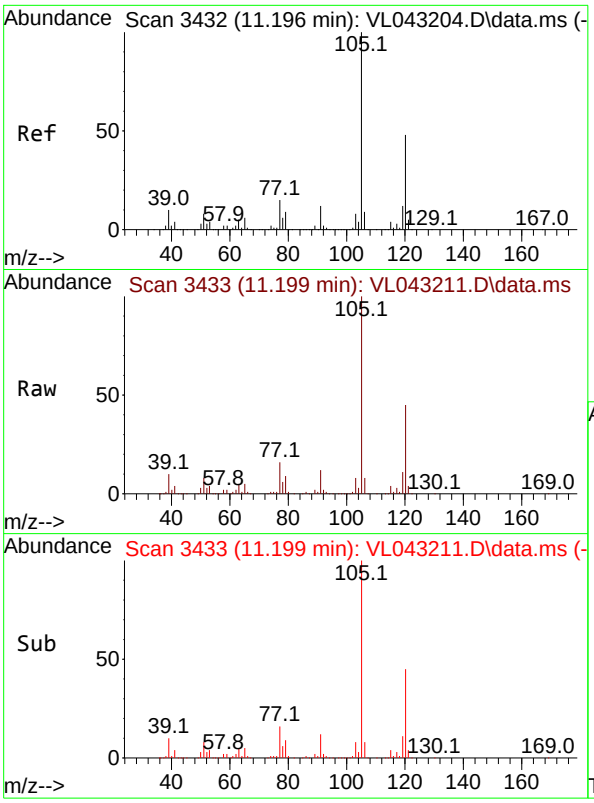


#72
4-Ethyltoluene
Concen: 8.779 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



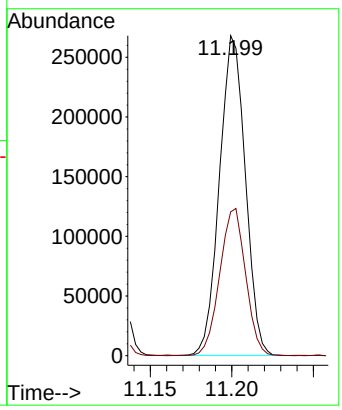


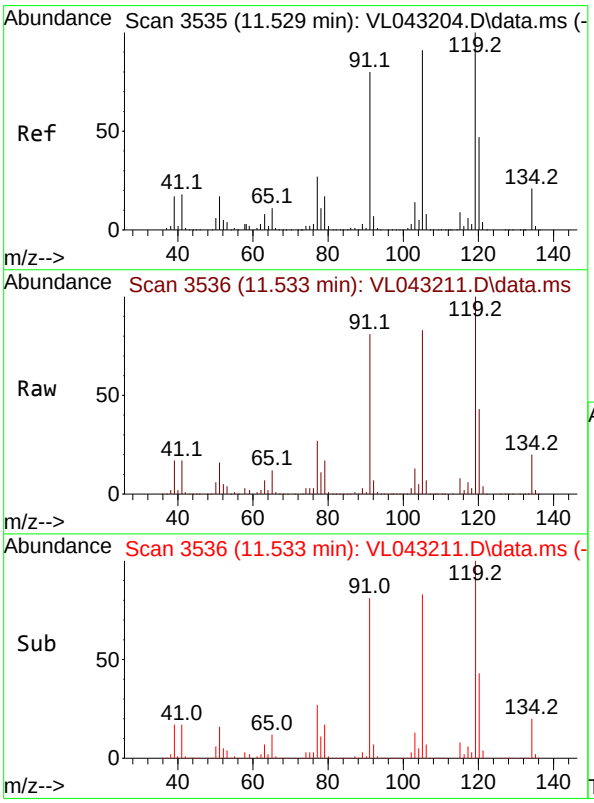
#73
1,3,5-Trimethylbenzene
Concen: 8.660 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:105 Resp: 294977

Ion	Ratio	Lower	Upper
105	100		
120	45.0	38.6	57.8

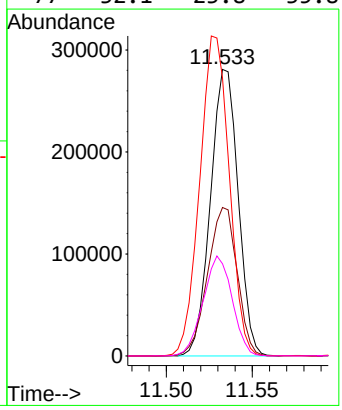


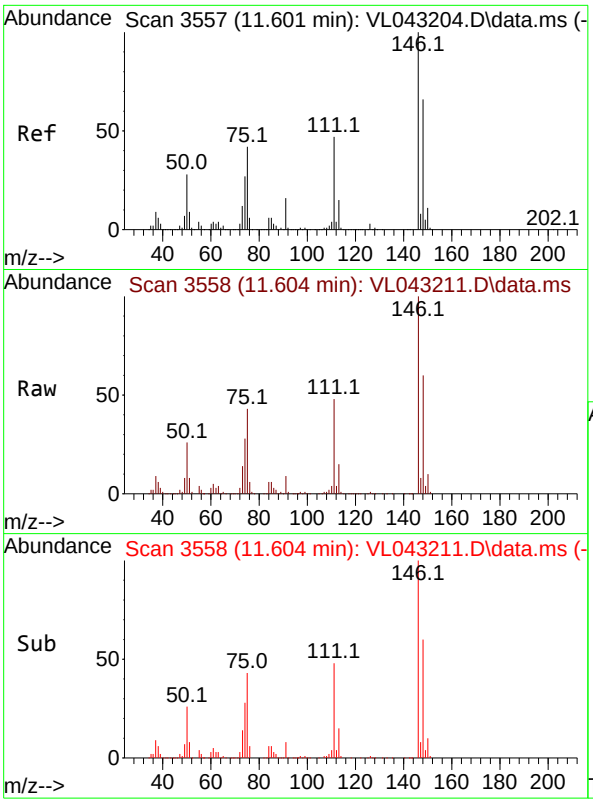


#74
1,2,4-Trimethylbenzene
Concen: 8.463 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



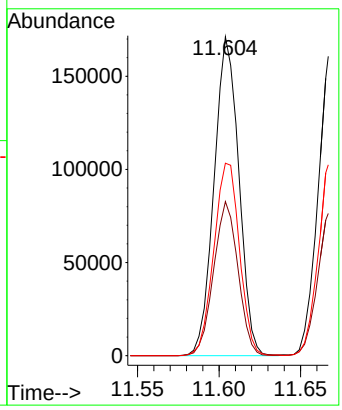


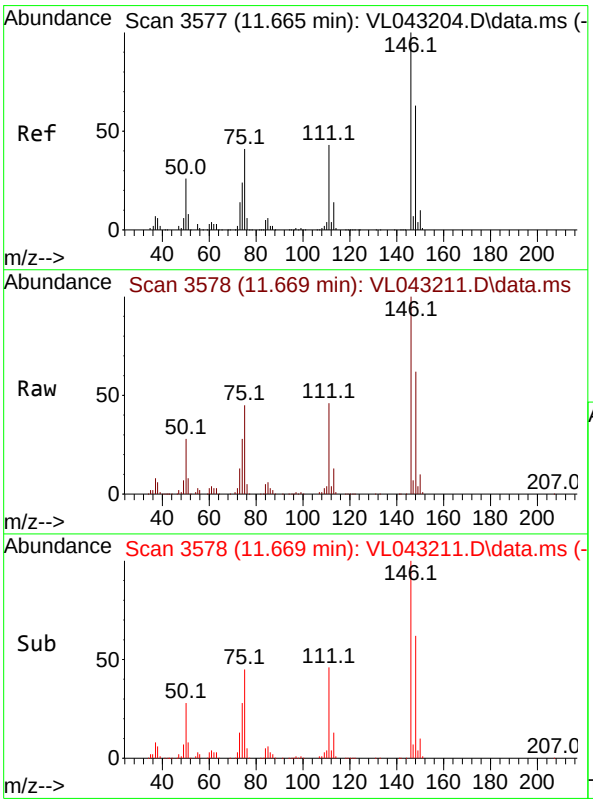
#75
1,3-Dichlorobenzene
Concen: 8.320 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

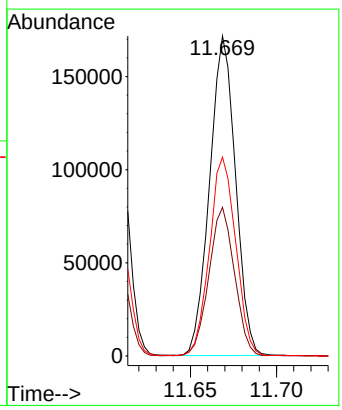


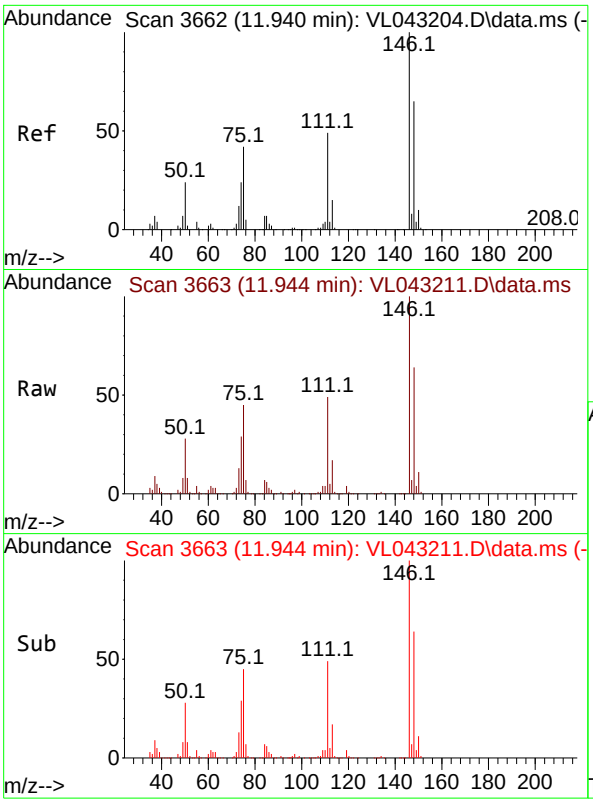


#76
1,4-Dichlorobenzene
Concen: 8.273 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



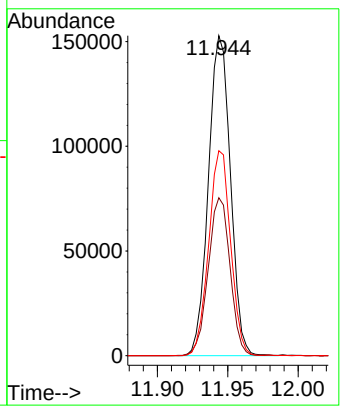


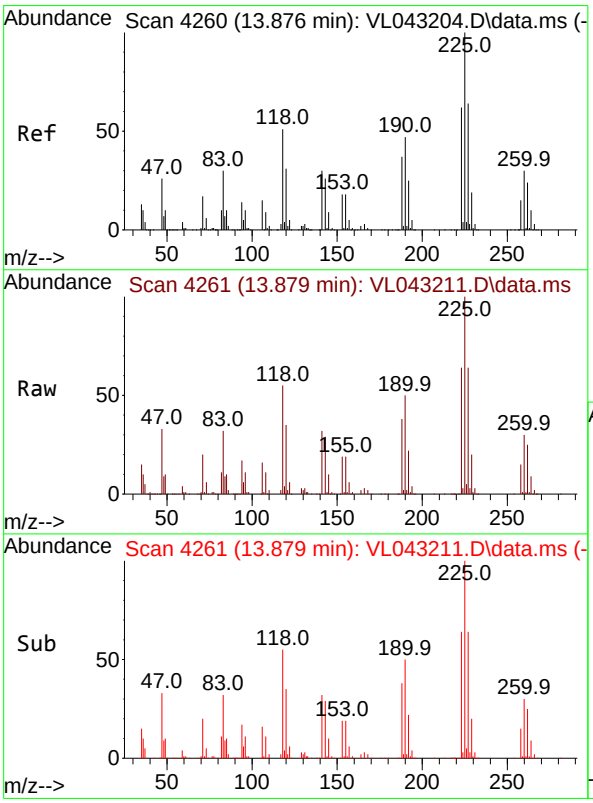
#77
1,2-Dichlorobenzene
Concen: 7.966 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

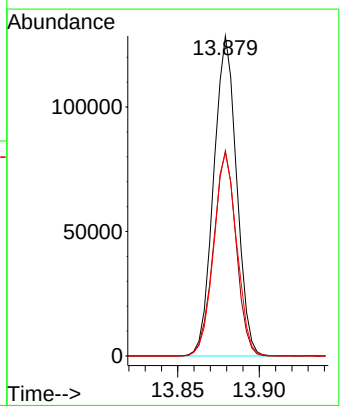


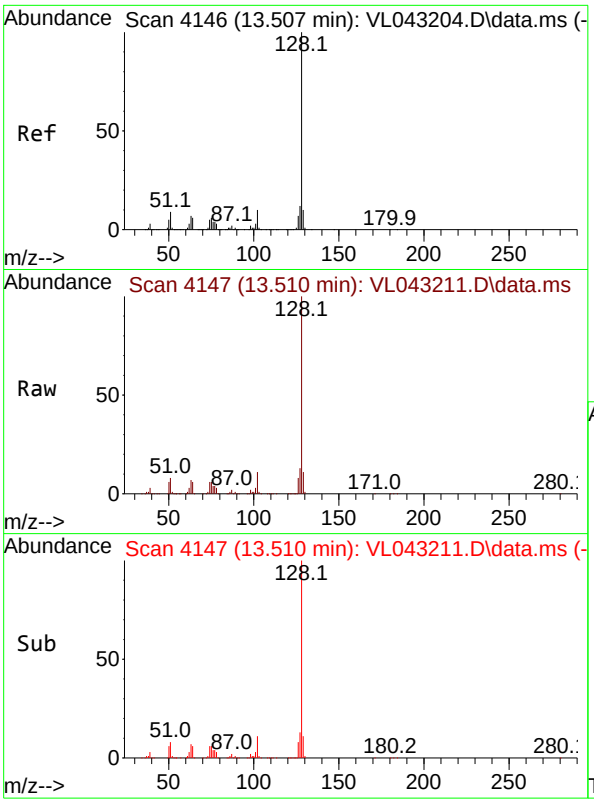


#78
Hexachloro-1,3-Butadiene
Concen: 7.222 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



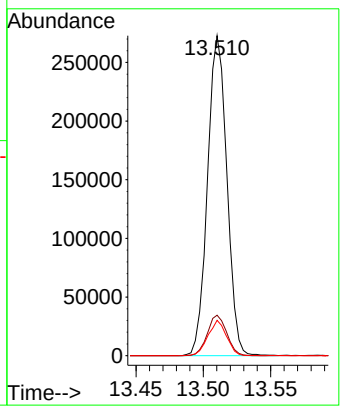


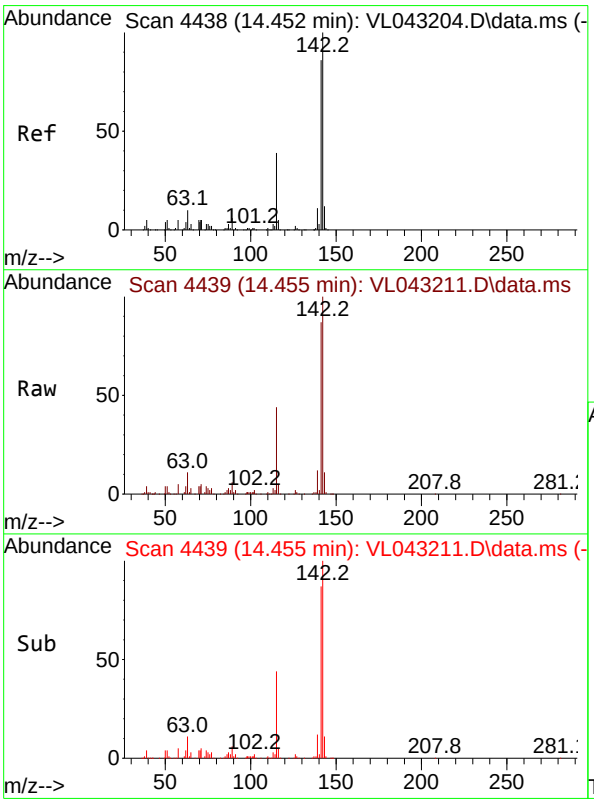
#79
Naphthalene
Concen: 8.270 ppbv
RT: 13.510 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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

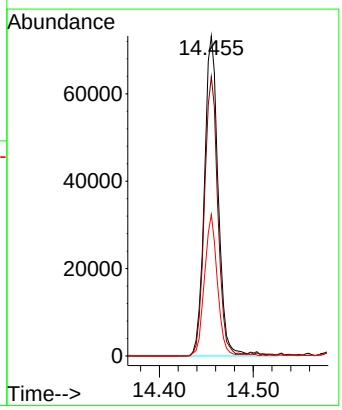


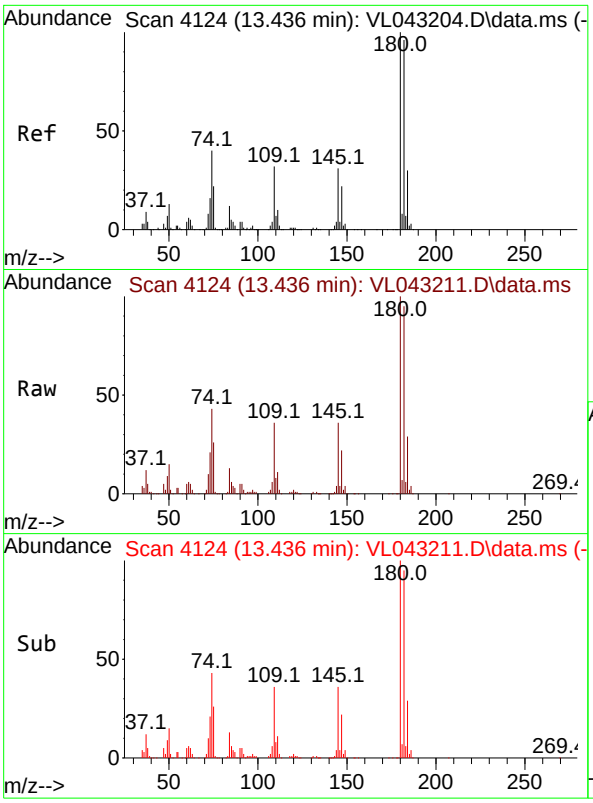


#80
Naphthalene,2-methyl-
Concen: 8.631 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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



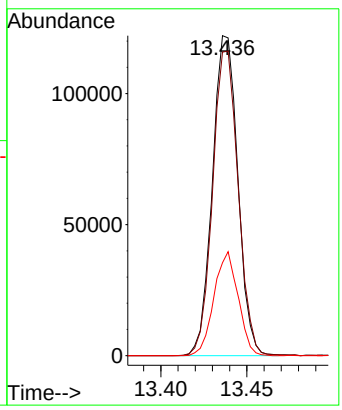


#81
1,2,4-Trichlorobenzene
Concen: 8.497 ppbv
RT: 13.436 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

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\VL111925\
Data File : VL043232.D
Acq On : 19 Nov 2025 09:31
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Nov 20 00:01:40 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	92858	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.953	114	261062	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	210840	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	156782	10.145	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	144631	11.043	ppbv	99
3) Chlorodifluoromethane	1.476	51	122519	9.512	ppbv	94
4) Chloromethane	1.531	50	47574	9.715	ppbv	99
5) Vinyl Chloride	1.580	62	49554	9.253	ppbv	95
6) Bromomethane	1.667	94	26743	10.302	ppbv	96
7) Chloroethane	1.703	64	19615	9.405	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	118618	10.888	ppbv	100
9) Propene	1.771	41	50637	9.258	ppbv	98
10) Heptane	4.972	43	136196	8.367	ppbv	99
11) Trichlorofluoromethane	1.878	101	151279	11.922	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	112009	11.306	ppbv	96
13) Ethanol	1.719	45	16875	8.774	ppbv	97
14) Bromoethene	1.781	108	40850	10.756	ppbv	93
15) Acetone	1.833	43	108749	8.429	ppbv	96
16) 1,3-Butadiene	1.609	39	53970	9.384	ppbv	96
17) tert-Butyl alcohol	2.036	59	171765	10.143	ppbv	99
18) 1,1-Dichloroethene	2.033	96	47565	10.312	ppbv	93
19) Isopropyl Alcohol	1.884	45	68870	9.447	ppbv	98
20) Methylene Chloride	2.059	84	43061	11.440	ppbv	93
21) Allyl Chloride	2.095	41	81929	9.439	ppbv	93
22) trans-1,2-Dichloroethene	2.341	96	54055	10.253	ppbv	94
23) Vinyl Acetate	2.460	43	145062	9.314	ppbv	98
24) 1,1-Dichloroethane	2.405	63	106518	10.467	ppbv	99
25) Ethyl Acetate	2.829	43	245441	8.821	ppbv	99
26) Hexane	2.823	57	109619	8.986	ppbv	98
27) Carbon Disulfide	2.150	76	133103	10.687	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	61465	10.265	ppbv	96
29) Chloroform	2.846	83	193620	11.166	ppbv	99
30) Cyclohexane	3.849	84	99278	9.707	ppbv	90
31) cis-1,2-Dichloroethene	2.719	61	120121	9.907	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	205379	11.112	ppbv	99
34) 2-Butanone	2.551	43	159571	8.659	ppbv	99
35) Carbon Tetrachloride	3.758	117	215989	10.900	ppbv	99
36) Benzene	3.651	78	235020	9.400	ppbv	97
37) 1,2-Dichloroethane	3.215	62	156071	10.672	ppbv	96
38) Trichloroethene	4.542	130	96860	9.902	ppbv	97
39) 1,2-Dichloropropane	4.305	63	81356	8.891	ppbv	86
40) 1,4-Dioxane	4.571	88	36952	8.983	ppbv #	98
41) Tetrahydrofuran	3.046	42	83683	8.223	ppbv	96
42) Bromodichloromethane	4.480	83	212816	10.549	ppbv	96
43) Methyl Methacrylate	4.868	69	112985	8.514	ppbv	95
44) 2,2,4-Trimethylpentane	4.632	57	374848	8.730	ppbv	97
45) t-1,3-Dichloropropene	6.403	75	112704	9.111	ppbv	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043232.D
Acq On : 19 Nov 2025 09:31
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Nov 20 00:01:40 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

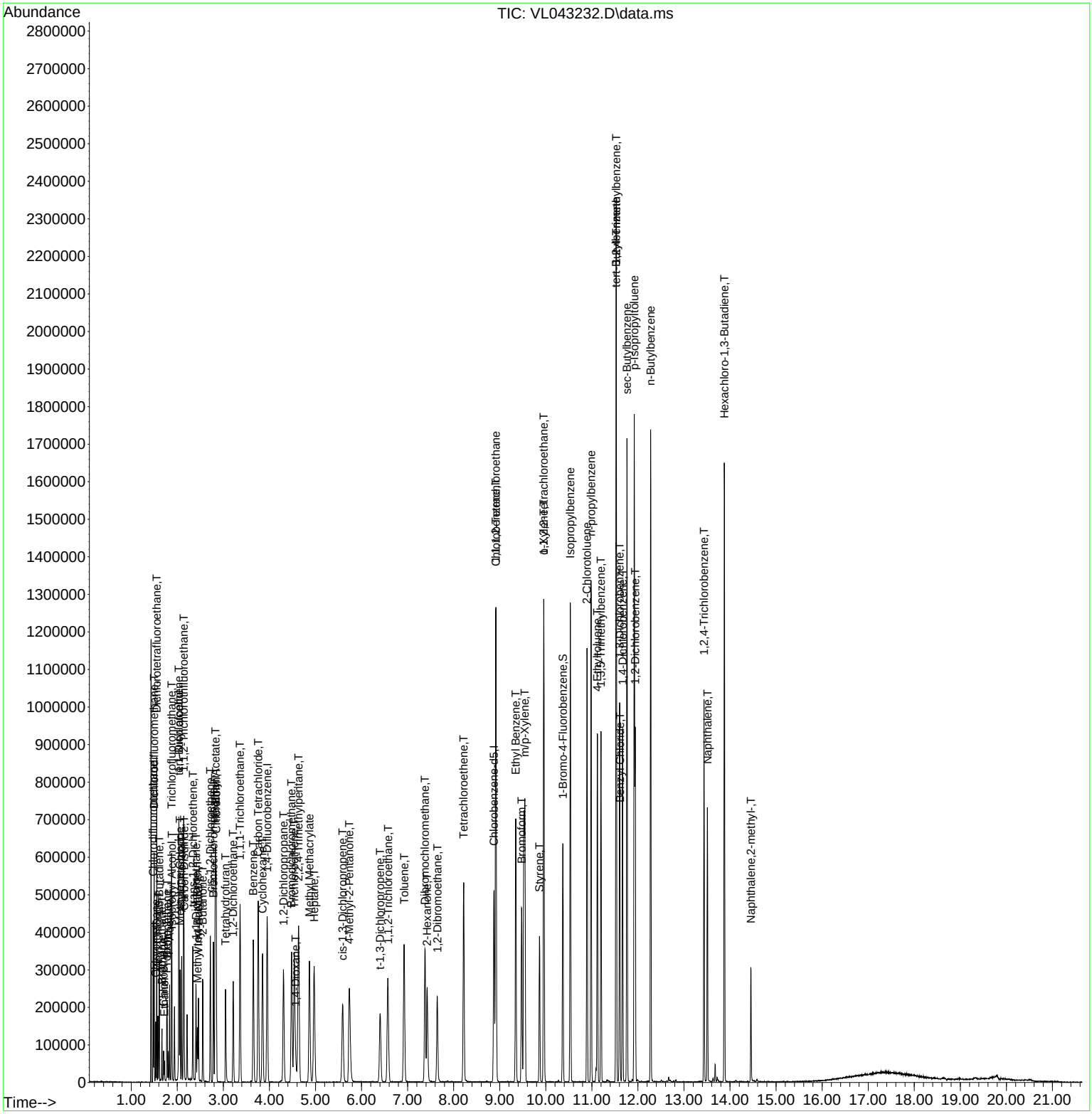
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	129954	8.947	ppbv		99
47) 1,1,2-Trichloroethane	6.577	97	45748	4.711	ppbv		95
48) Dibromochloromethane	7.377	129	179951	10.778	ppbv		97
49) Bromoform	9.477	173	164309	11.110	ppbv		99
50) 4-Methyl-2-Pentanone	5.736	43	215210	8.290	ppbv		100
51) 2-Hexanone	7.422	43	168100	8.339	ppbv	#	100
52) Tetrachloroethene	8.218	164	93448	10.048	ppbv		98
53) Toluene	6.927	91	270136	9.125	ppbv		99
54) 1,2-Dibromoethane	7.646	107	146059	10.221	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.918	131	164526	10.618	ppbv		97
57) Chlorobenzene	8.914	112	216324	9.993	ppbv		96
58) Ethyl Benzene	9.348	91	394701	9.726	ppbv		100
59) m/p-Xylene	9.542	91	301368	9.263	ppbv	#	23
60) o-Xylene	9.956	91	326016	10.030	ppbv		100
61) Styrene	9.863	104	134337	9.444	ppbv		99
62) Isopropylbenzene	10.533	105	588476	10.120	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	200465	9.693	ppbv		99
64) n-propylbenzene	10.982	120	151292	10.126	ppbv		99
65) tert-Butylbenzene	11.526	119	523483	10.080	ppbv		99
66) Benzyl Chloride	11.610	91	41211	7.820	ppbv		99
67) sec-Butylbenzene	11.762	105	733799	10.123	ppbv		99
69) p-Isopropyltoluene	11.921	119	627991	10.227	ppbv		99
70) n-Butylbenzene	12.277	91	618379	10.380	ppbv		99
71) 2-Chlorotoluene	10.895	91	448104	10.026	ppbv		99
72) 4-Ethyltoluene	11.122	105	401514	10.144	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	340623	10.255	ppbv		94
74) 1,2,4-Trimethylbenzene	11.533	105	372542	10.277	ppbv		93
75) 1,3-Dichlorobenzene	11.604	146	223492	10.565	ppbv		99
76) 1,4-Dichlorobenzene	11.669	146	226095	10.686	ppbv		99
77) 1,2-Dichlorobenzene	11.944	146	213424	10.494	ppbv		99
78) Hexachloro-1,3-Butadiene	13.876	225	178749	10.531	ppbv		100
79) Naphthalene	13.510	128	341298	10.601	ppbv		99
80) Naphthalene,2-methyl-	14.452	142	86195	10.199	ppbv		99
81) 1,2,4-Trichlorobenzene	13.436	180	166081	11.534	ppbv		100

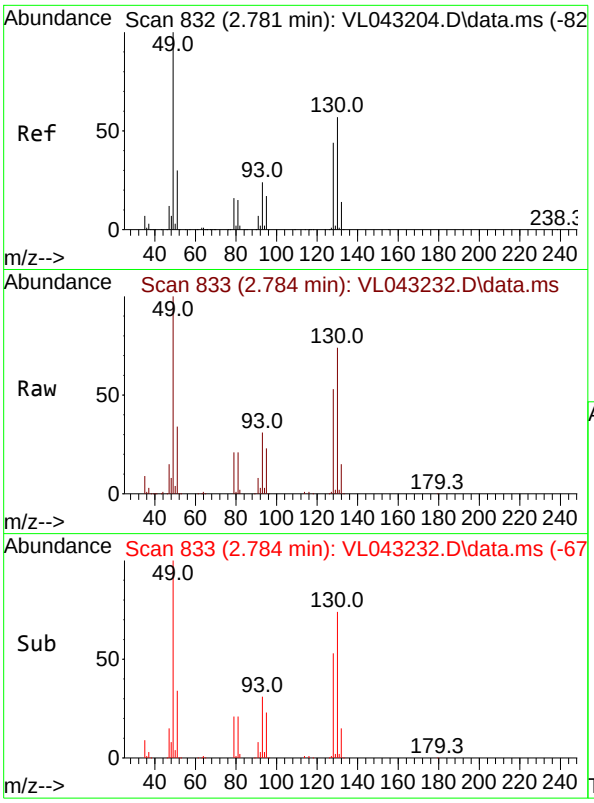
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043232.D
Acq On : 19 Nov 2025 09:31
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Nov 20 00:01:40 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



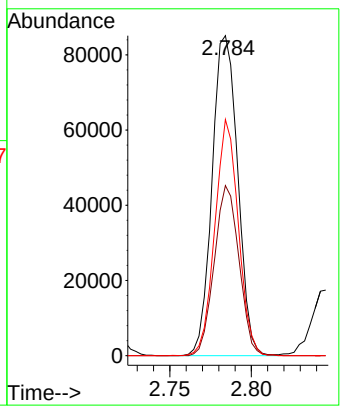


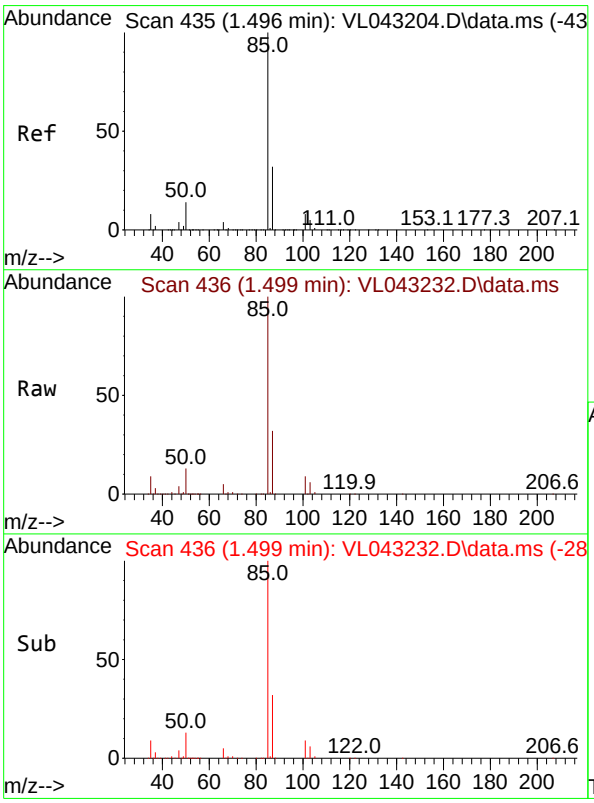
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 92858

Ion	Ratio	Lower	Upper
49	100		
128	51.3	23.0	69.0
130	67.6	29.9	89.7

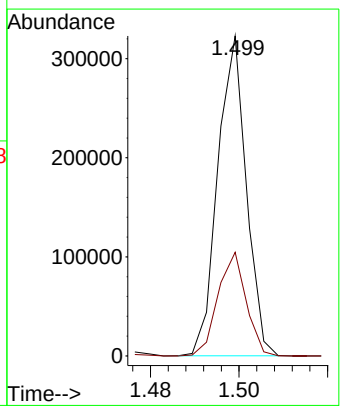


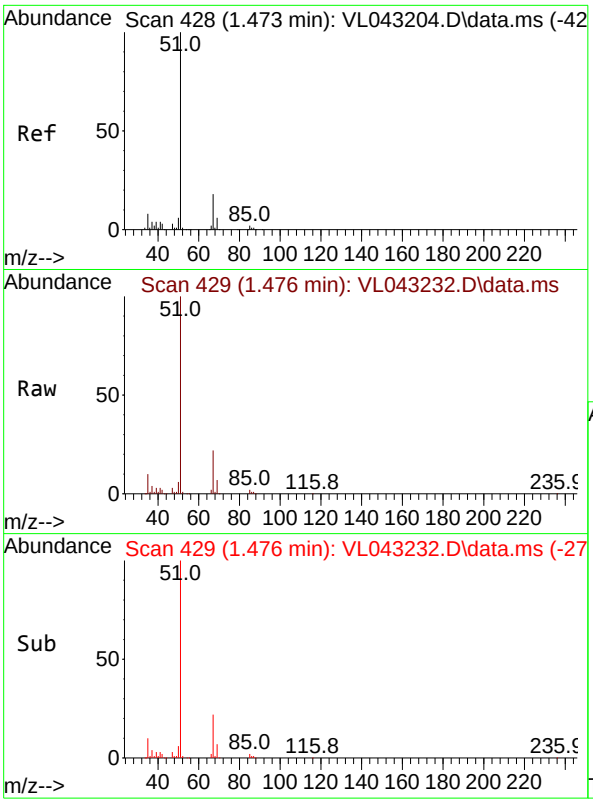


#2
Dichlorodifluoromethane
Concen: 11.043 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 85 Resp: 144631

Ion	Ratio	Lower	Upper
85	100		
87	32.4	25.4	38.2



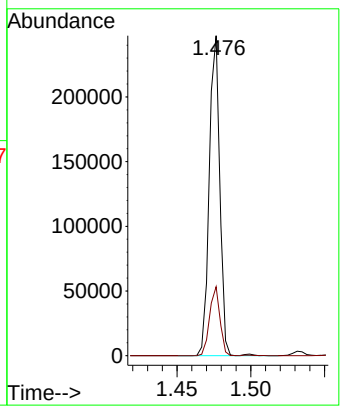


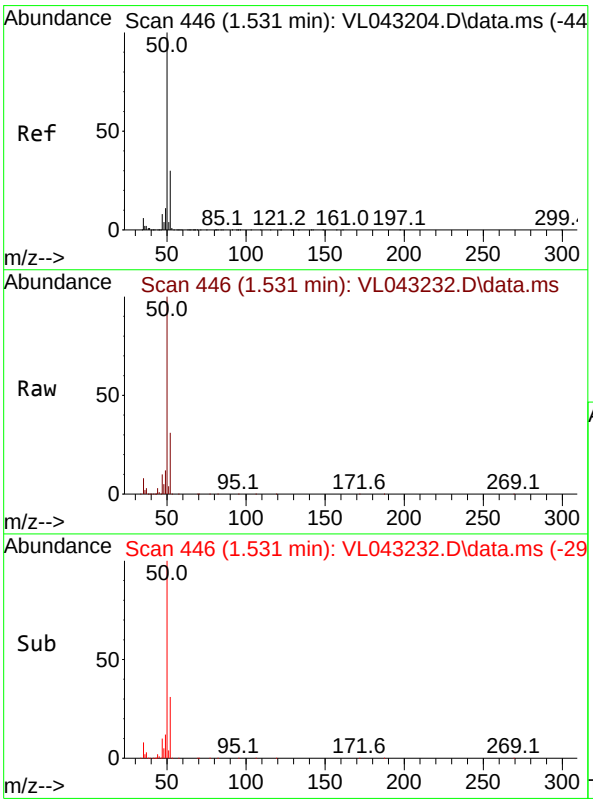
#3
Chlorodifluoromethane
Concen: 9.512 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 122519

Ion	Ratio	Lower	Upper
51	100		
67	21.4	14.9	22.3

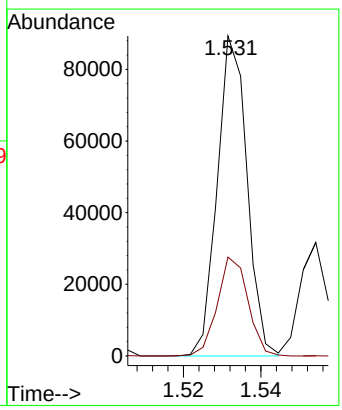


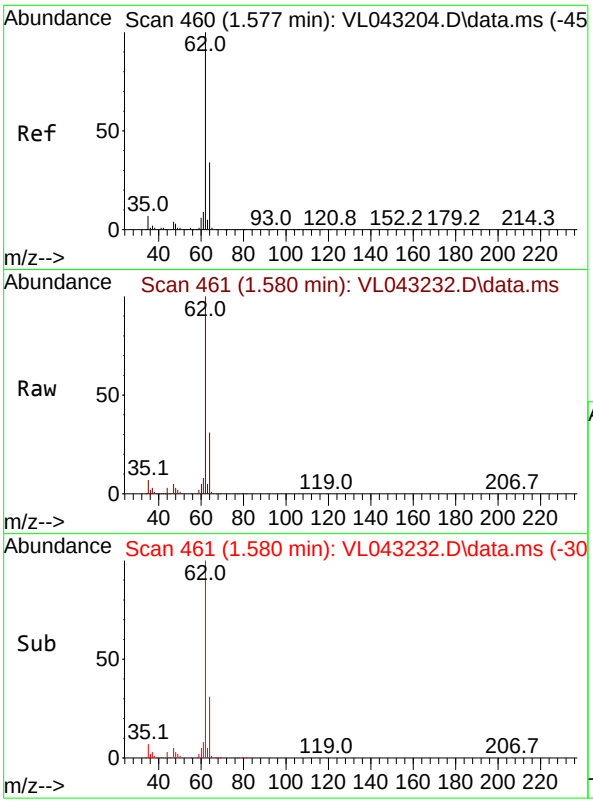


#4
Chloromethane
Concen: 9.715 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 50 Resp: 47574

Ion	Ratio	Lower	Upper
50	100		
52	30.8	24.1	36.1



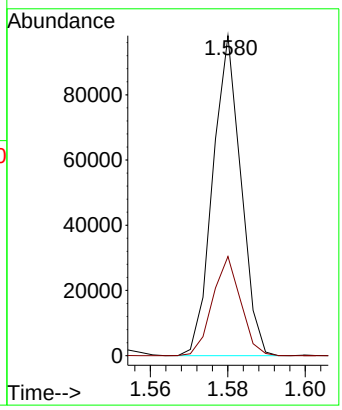


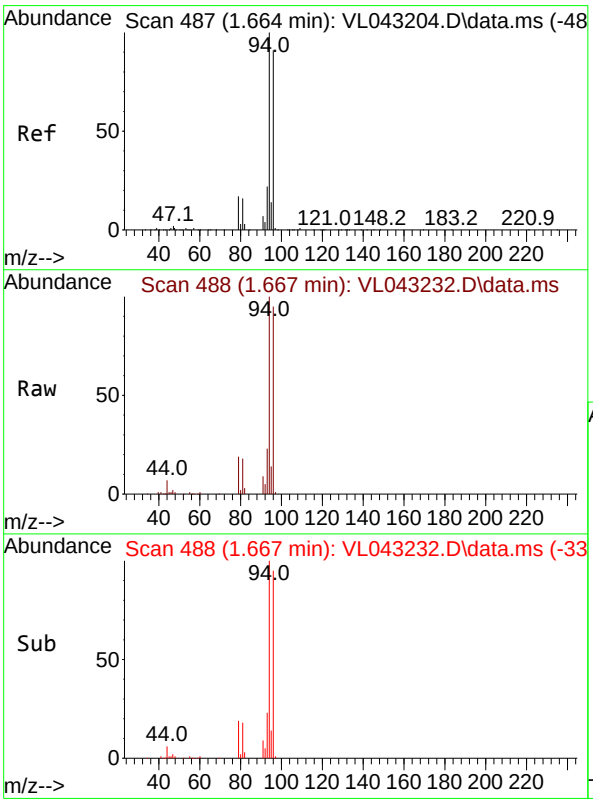
#5
Vinyl Chloride
Concen: 9.253 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 49554

Ion	Ratio	Lower	Upper
62	100		
64	30.9	27.3	40.9

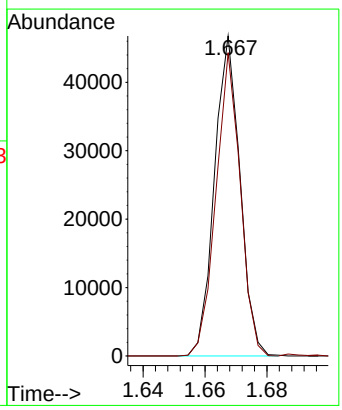


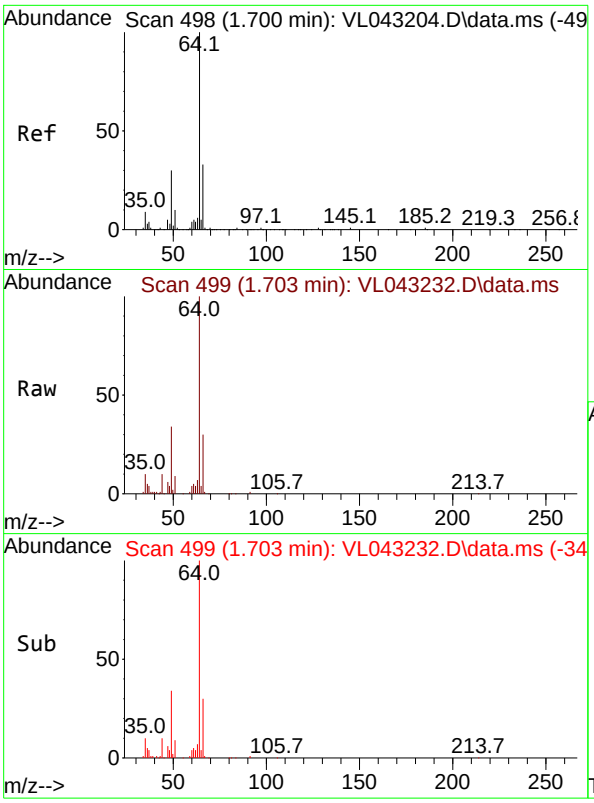


#6
Bromomethane
Concen: 10.302 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 94 Resp: 26743

Ion	Ratio	Lower	Upper
94	100		
96	94.8	72.9	109.3



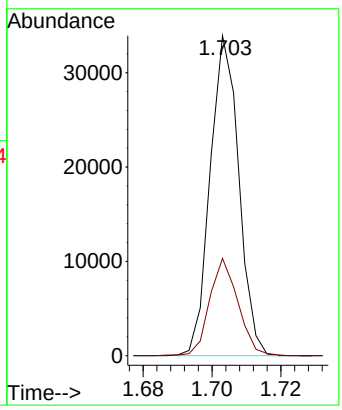


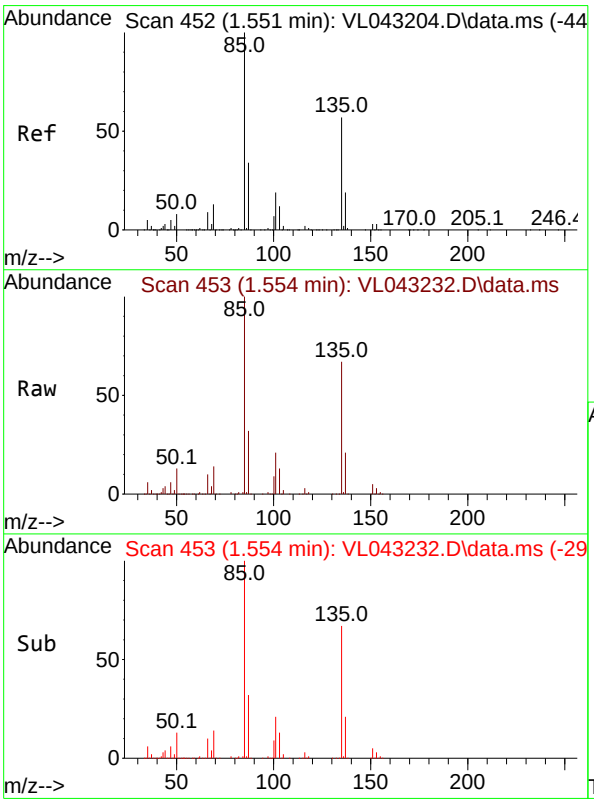
#7
Chloroethane
Concen: 9.405 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 19615

Ion	Ratio	Lower	Upper
64	100		
66	30.4	26.8	40.2

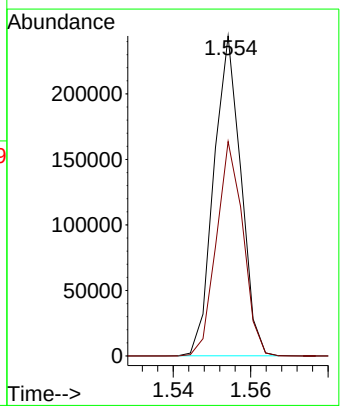


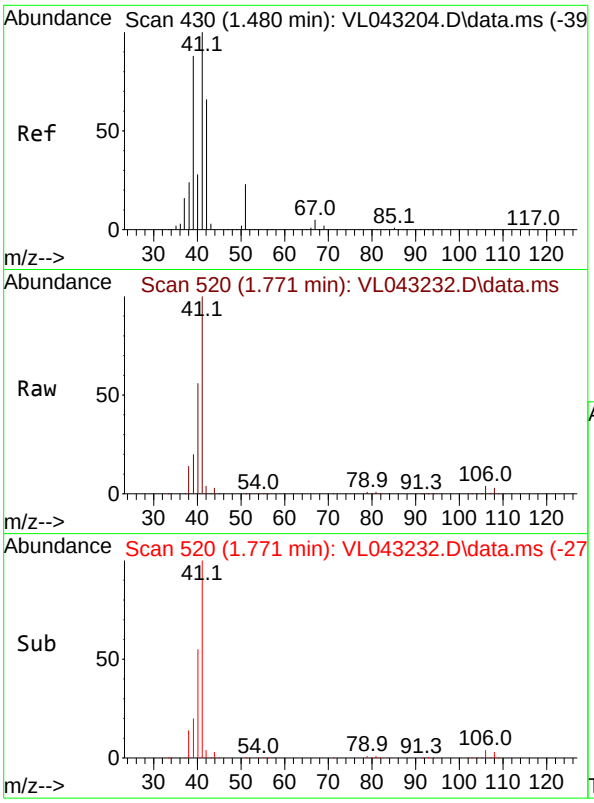


#8
Dichlorotetrafluoroethane
Concen: 10.888 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 85 Resp: 118618

Ion	Ratio	Lower	Upper
85	100		
135	66.2	52.6	79.0



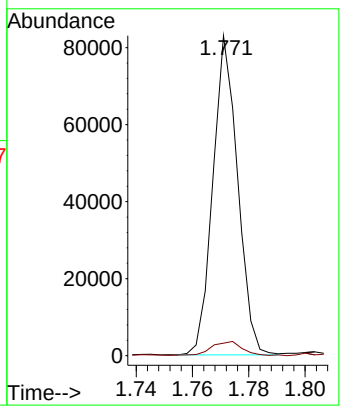


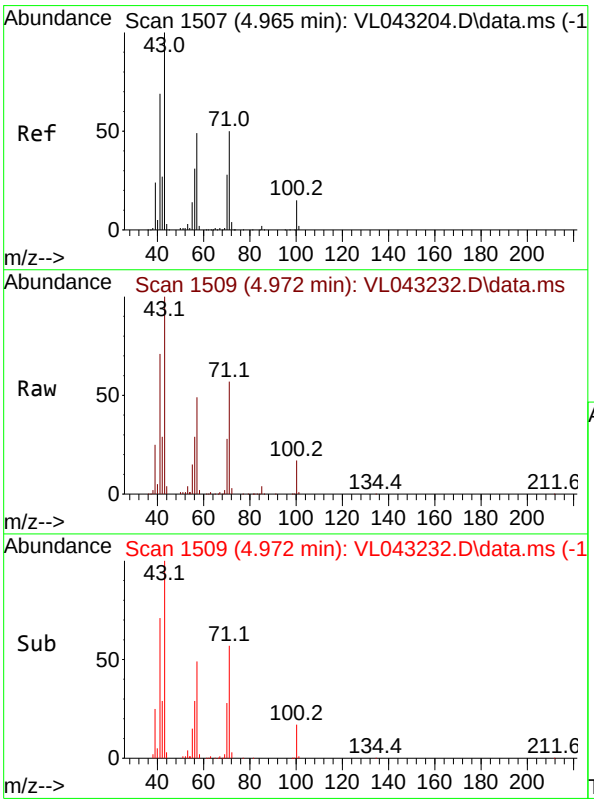
#9
Propene
Concen: 9.258 ppbv
RT: 1.771 min Scan# 5
Delta R.T. 0.291 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 50637

Ion	Ratio	Lower	Upper
41	100		
42	5.3	3.7	5.5

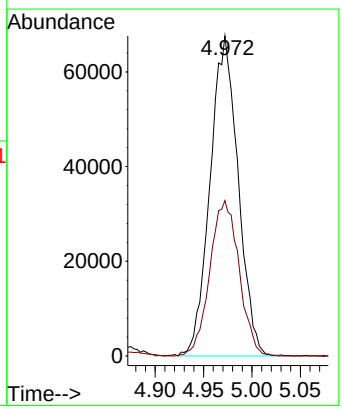


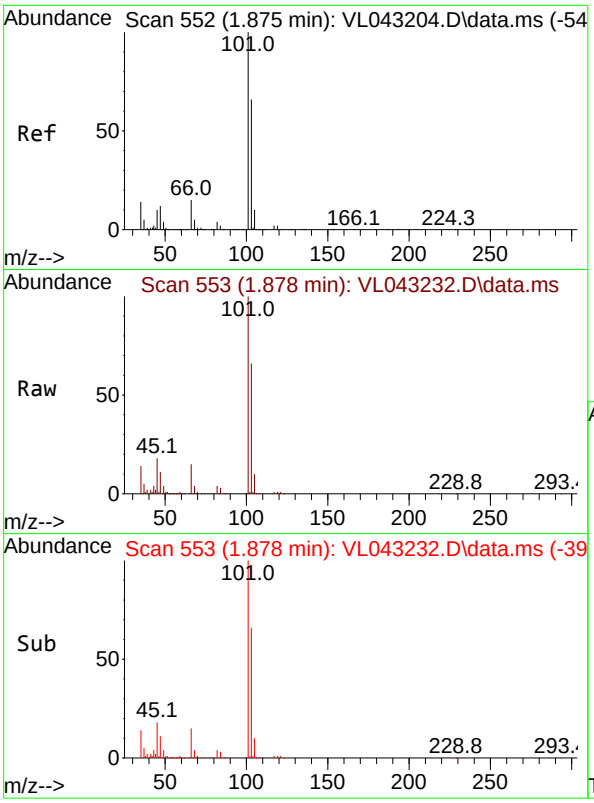


#10
Heptane
Concen: 8.367 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 43 Resp: 136196

Ion	Ratio	Lower	Upper
43	100		
57	50.6	39.7	59.5



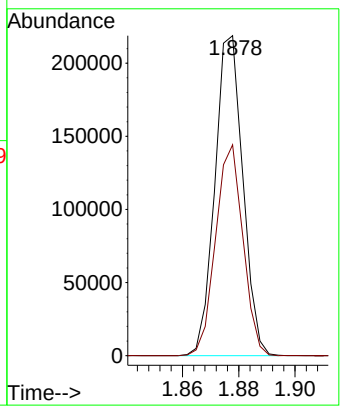


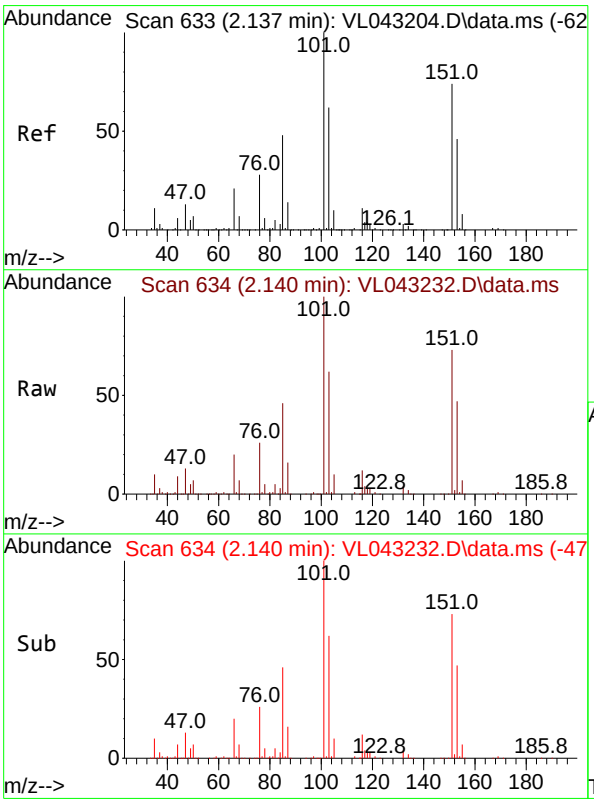
#11
Trichlorofluoromethane
Concen: 11.922 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:101 Resp: 151279

Ion	Ratio	Lower	Upper
101	100		
103	65.9	52.6	79.0

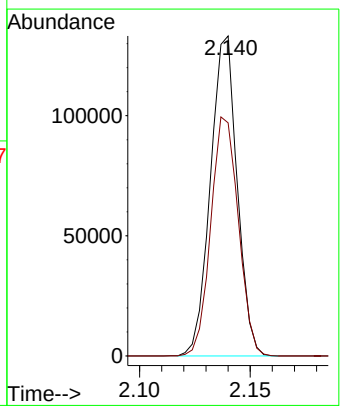


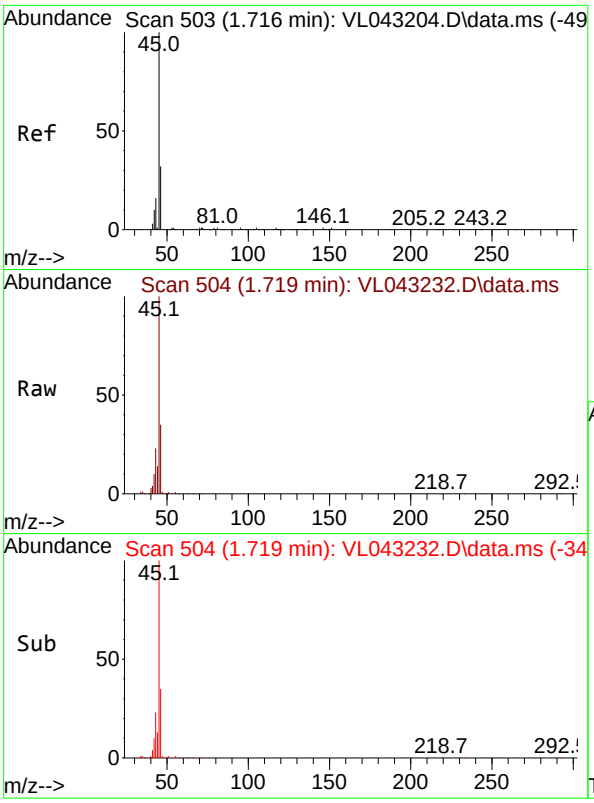


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.306 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:101 Resp: 112009

Ion	Ratio	Lower	Upper
101	100		
151	77.0	59.2	88.8



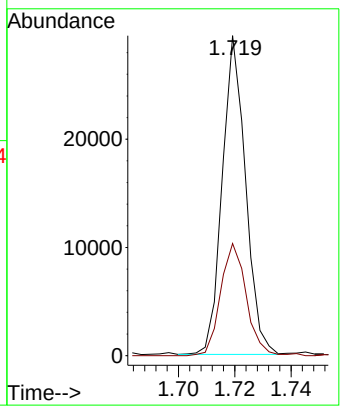


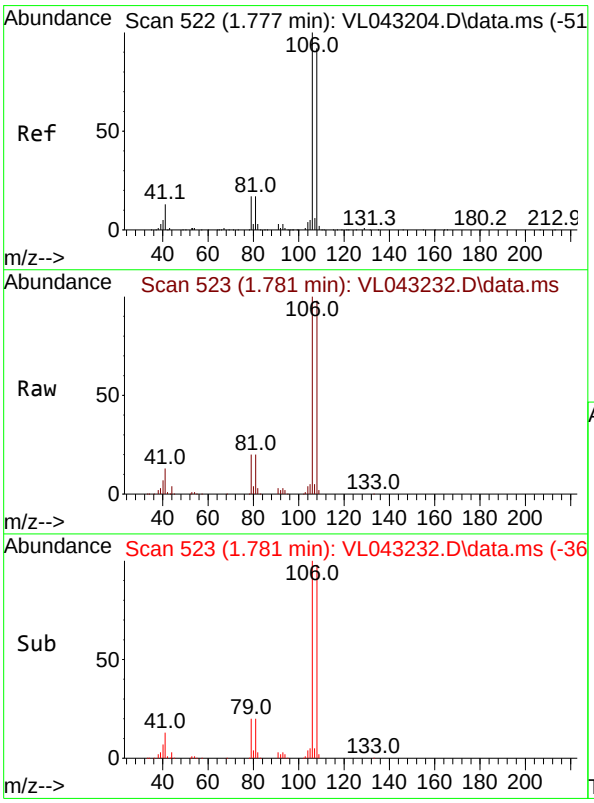
#13
Ethanol
Concen: 8.774 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 16875

Ion	Ratio	Lower	Upper
45	100		
46	39.3	15.0	59.8

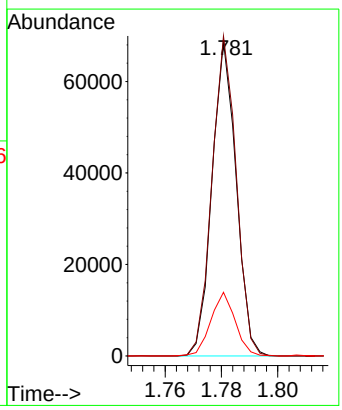


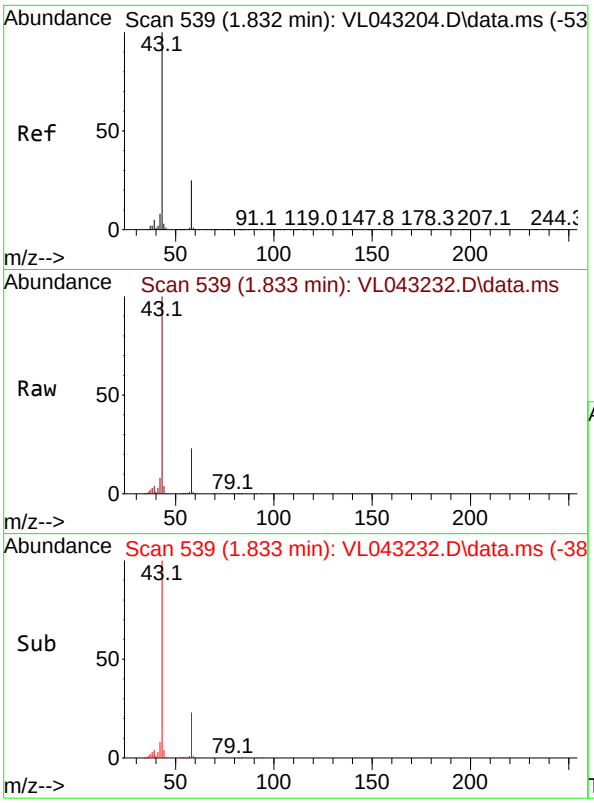


#14
Bromoethene
Concen: 10.756 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:108 Resp: 40850

Ion	Ratio	Lower	Upper
108	100		
106	102.4	88.9	133.3
79	20.7	16.5	24.7



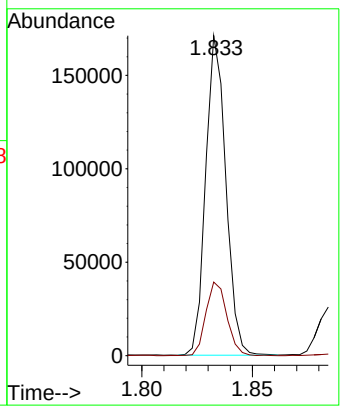


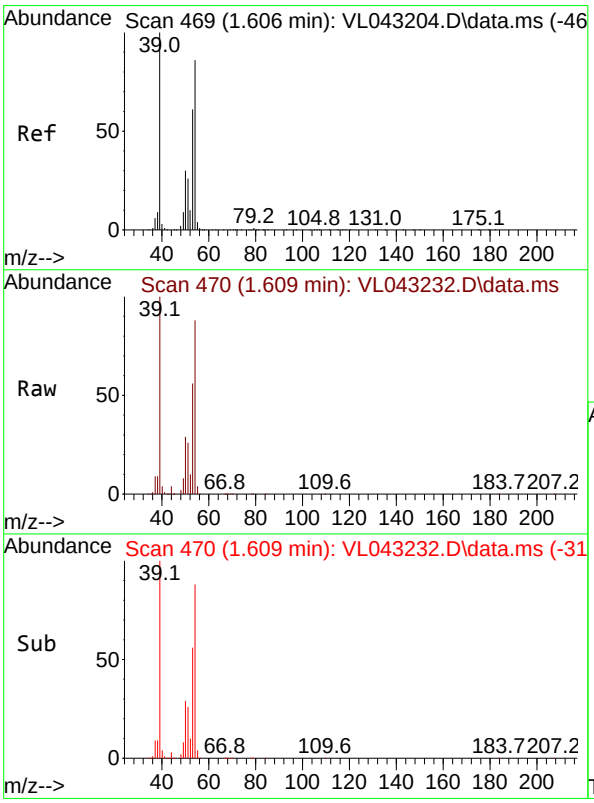
#15
Acetone
Concen: 8.429 ppbv
RT: 1.833 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 108749

Ion	Ratio	Lower	Upper
43	100		
58	24.1	20.7	31.1

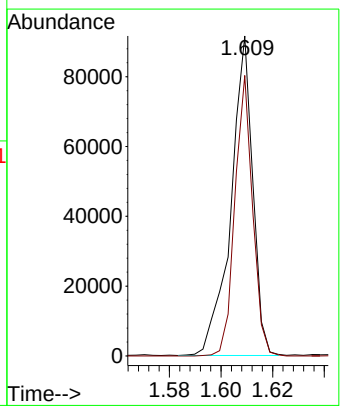


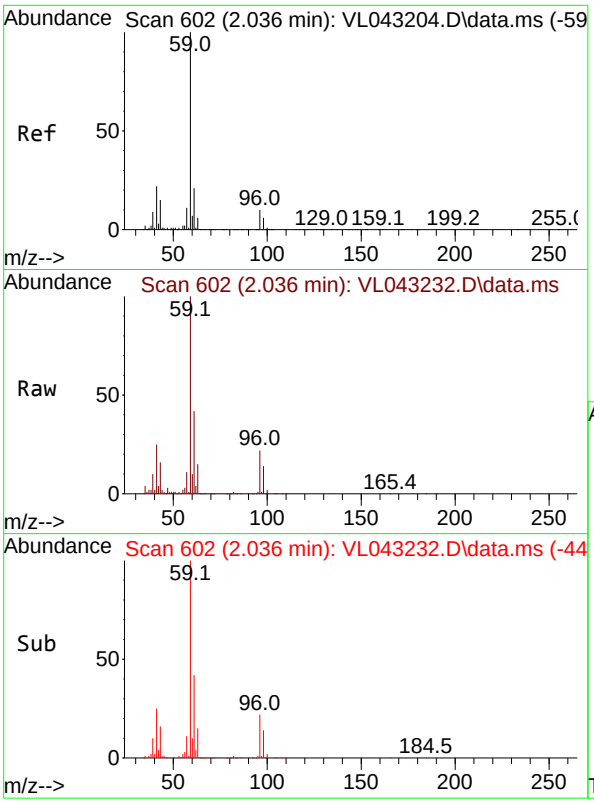


#16
1,3-Butadiene
Concen: 9.384 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 39 Resp: 53970

Ion	Ratio	Lower	Upper
39	100		
54	71.2	59.4	89.2



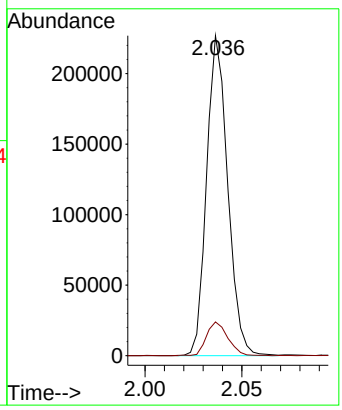


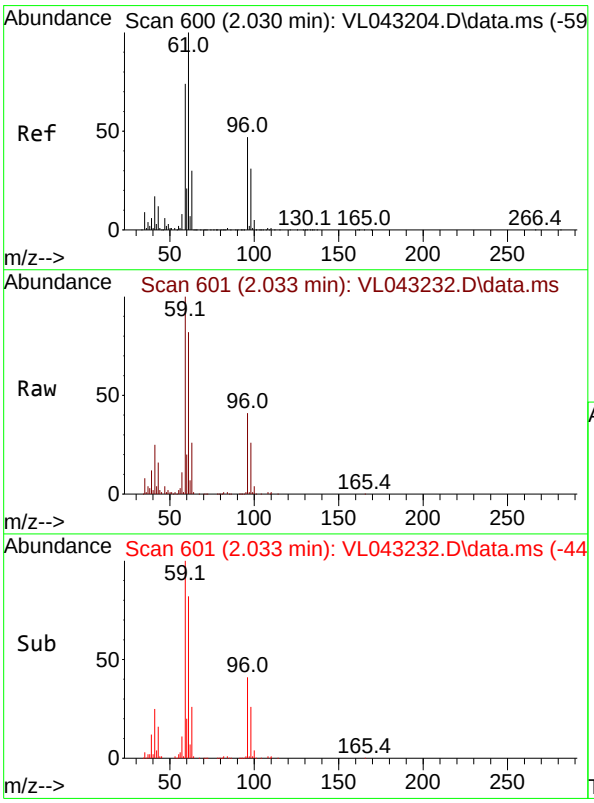
#17
tert-Butyl alcohol
Concen: 10.143 ppbv
RT: 2.036 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 171765

Ion	Ratio	Lower	Upper
59	100		
57	10.8	9.0	13.4

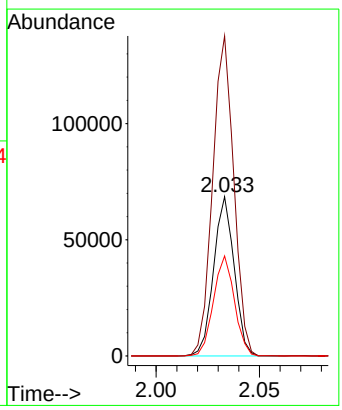


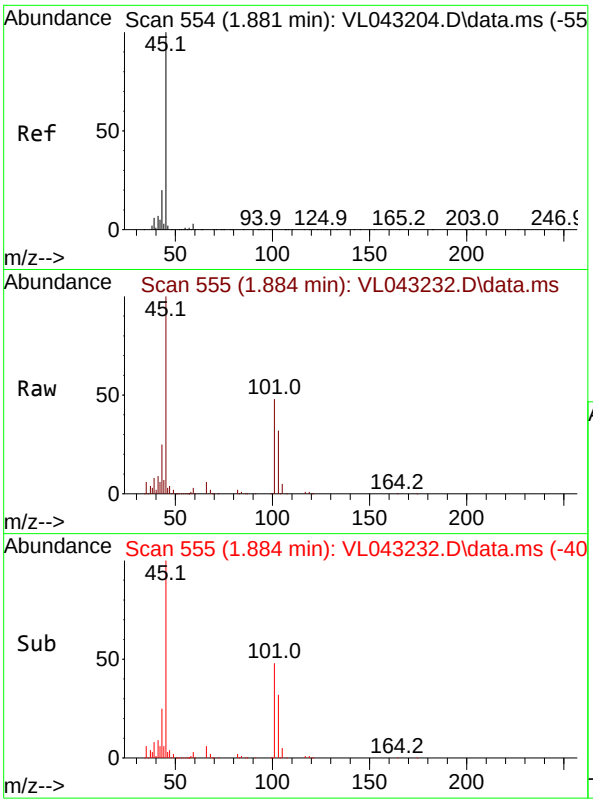


#18
1,1-Dichloroethene
Concen: 10.312 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 96 Resp: 47565

Ion	Ratio	Lower	Upper
96	100		
61	201.1	170.6	255.8
98	62.9	52.2	78.4



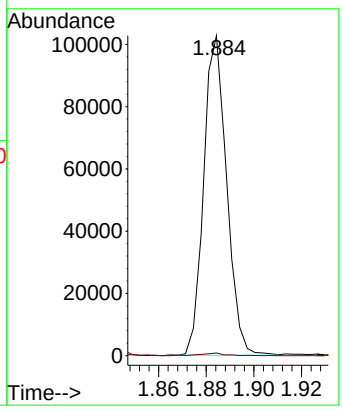


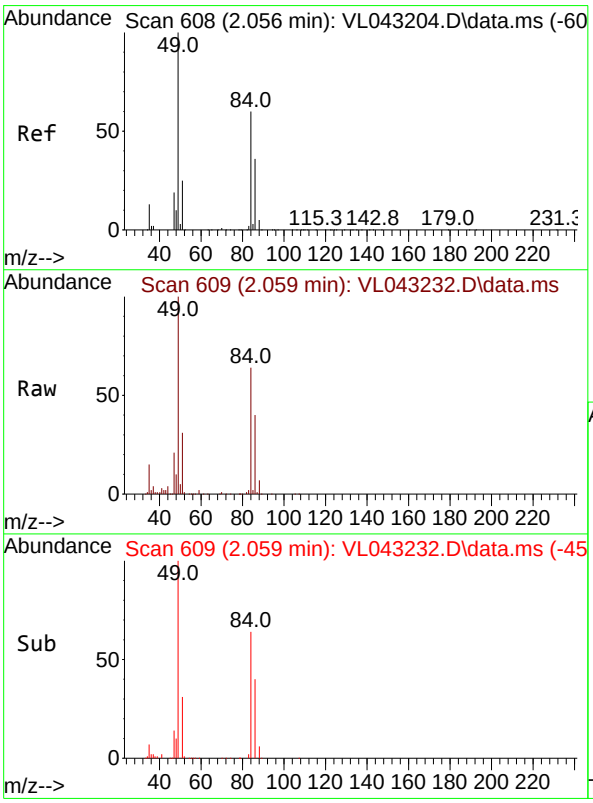
#19
Isopropyl Alcohol
Concen: 9.447 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 68870

Ion	Ratio	Lower	Upper
45	100		
58	38.1	31.3	46.9

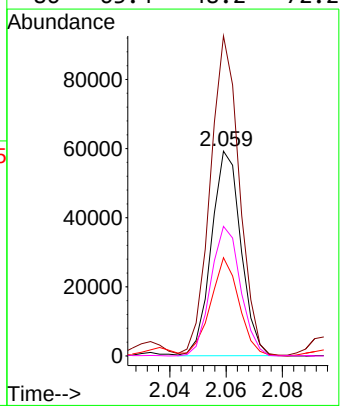


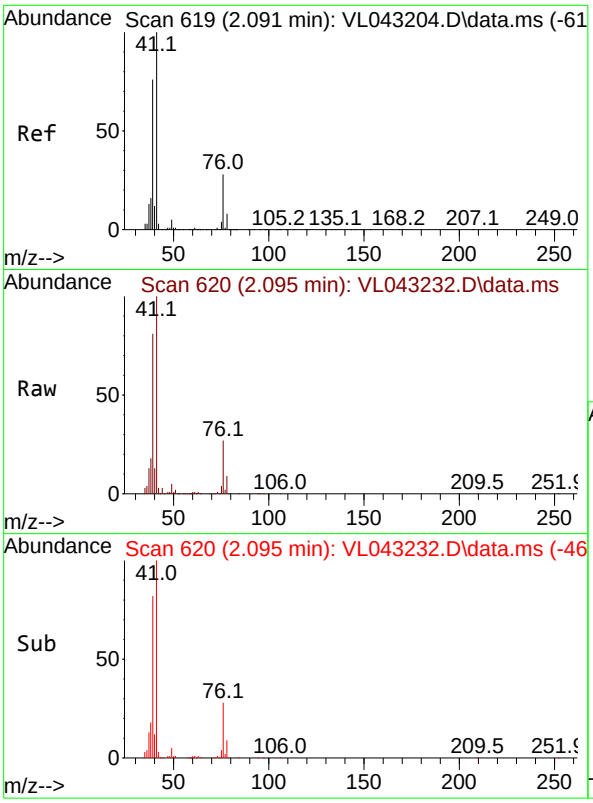


#20
Methylene Chloride
Concen: 11.440 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 84 Resp: 43061

Ion	Ratio	Lower	Upper
84	100		
49	156.1	132.9	199.3
51	47.7	34.8	52.2
86	63.4	48.2	72.2



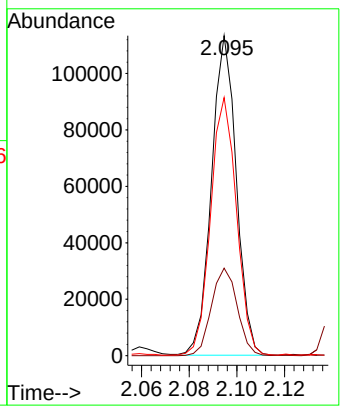


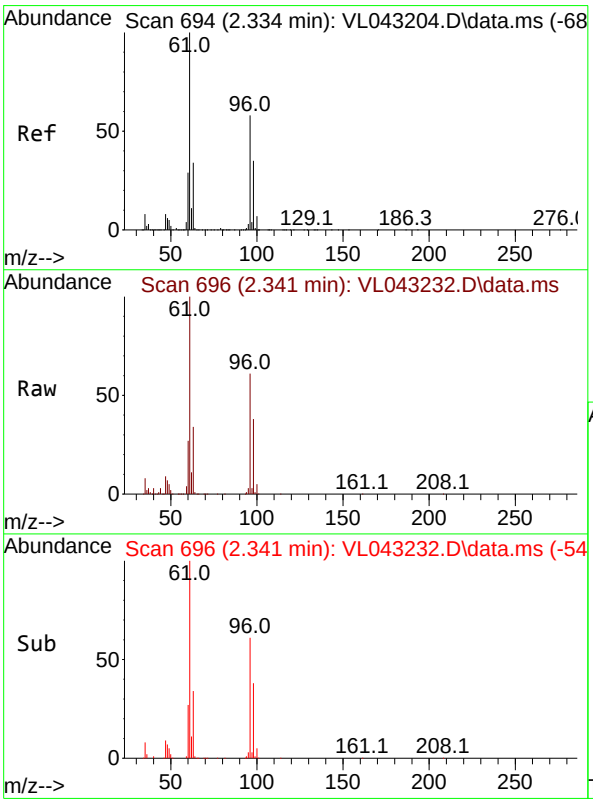
#21
Allyl Chloride
Concen: 9.439 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 81929

Ion	Ratio	Lower	Upper
41	100		
76	28.5	22.1	33.1
39	84.2	61.0	91.4

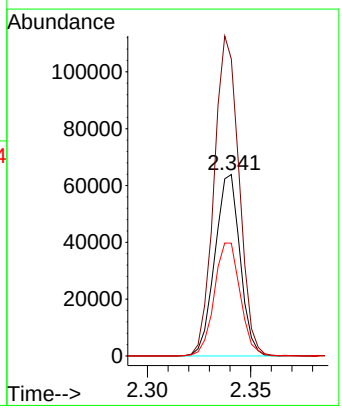


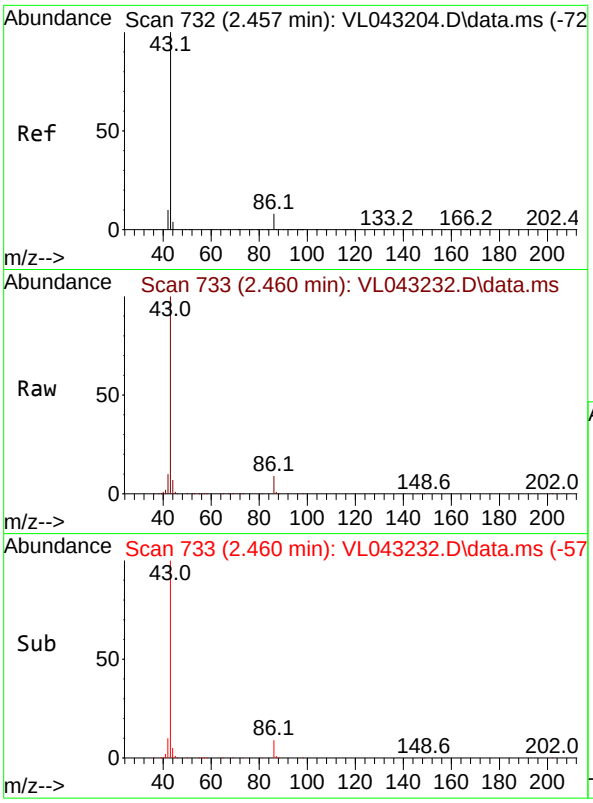


#22
trans-1,2-Dichloroethene
Concen: 10.253 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 96 Resp: 54055

Ion	Ratio	Lower	Upper
96	100		
61	163.6	139.0	208.6
98	62.2	49.4	74.2



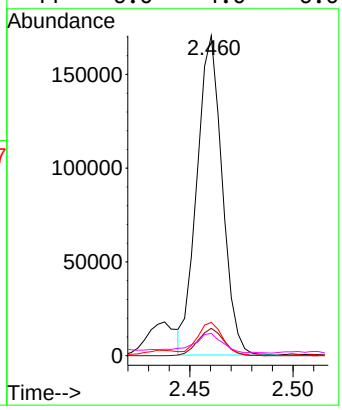


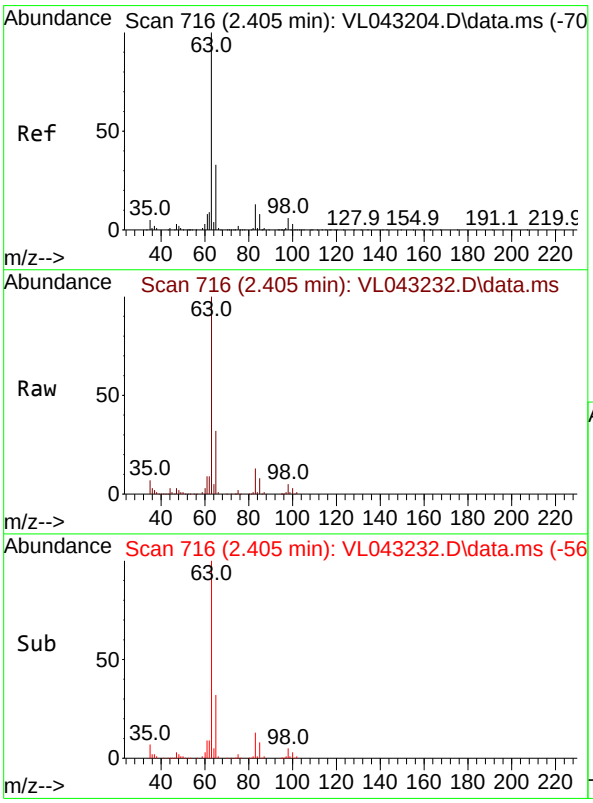
#23
Vinyl Acetate
Concen: 9.314 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 145062

Ion	Ratio	Lower	Upper
43	100		
86	8.6	6.2	9.2
42	10.4	8.0	12.0
44	6.0	4.0	6.0

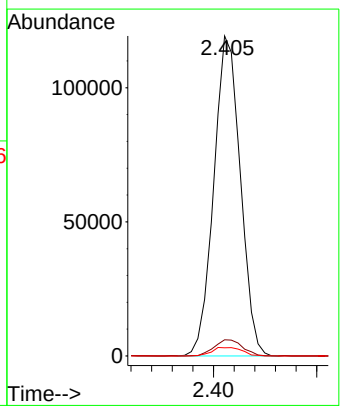


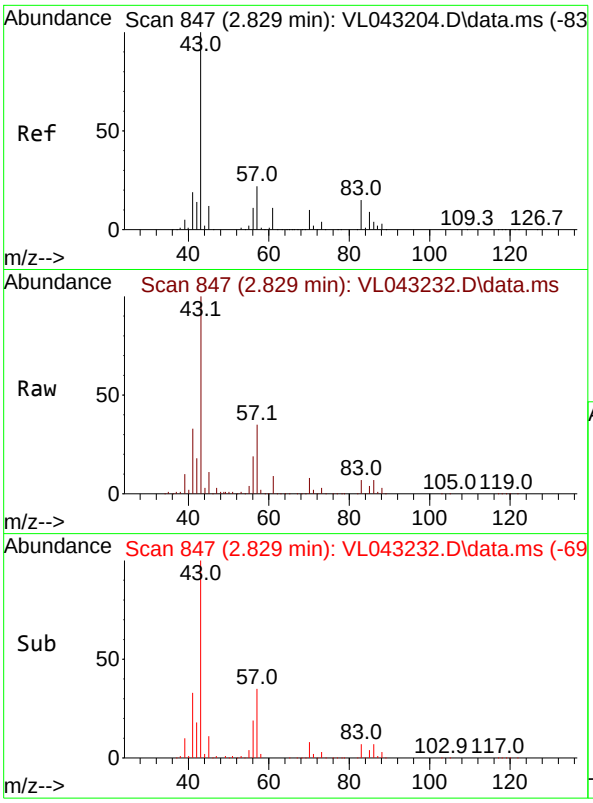


#24
1,1-Dichloroethane
Concen: 10.467 ppbv
RT: 2.405 min Scan# 716
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 63 Resp: 106518

Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.8	8.4
100	2.5	1.3	3.9



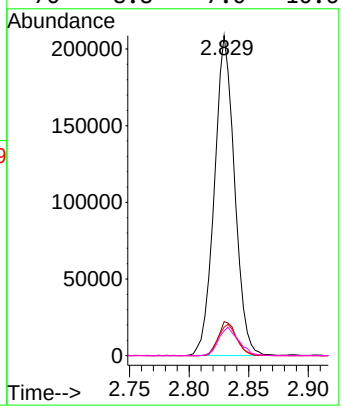


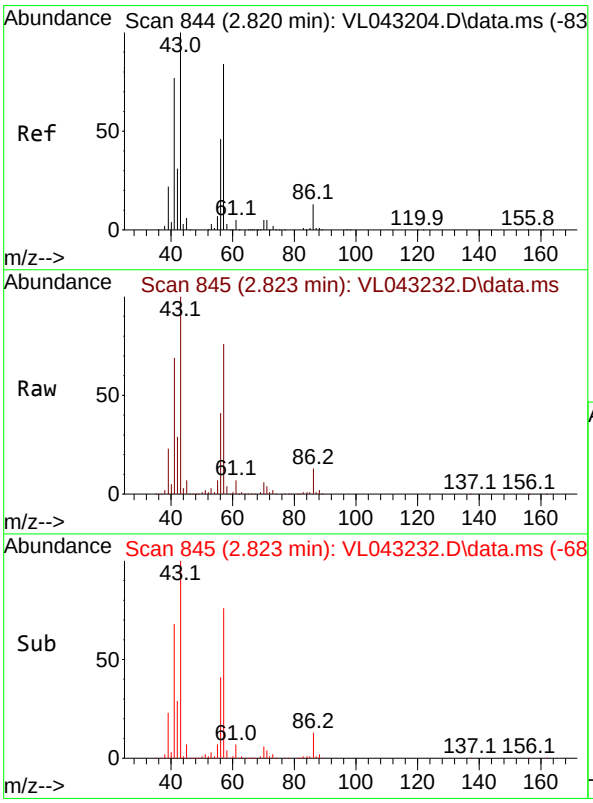
#25
Ethyl Acetate
Concen: 8.821 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 245441

Ion	Ratio	Lower	Upper
43	100		
45	9.8	8.1	12.1
61	9.0	7.0	10.4
70	8.8	7.0	10.6

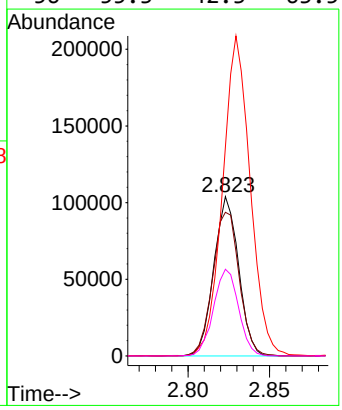


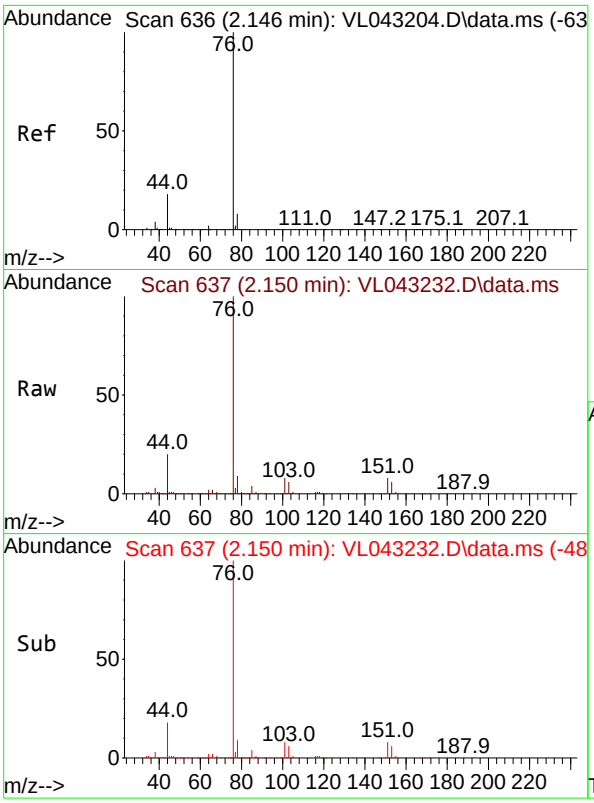


#26
Hexane
Concen: 8.986 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 57 Resp: 109619

Ion	Ratio	Lower	Upper
57	100		
41	97.5	74.6	111.8
43	225.2	179.0	268.4
56	55.3	42.3	63.5



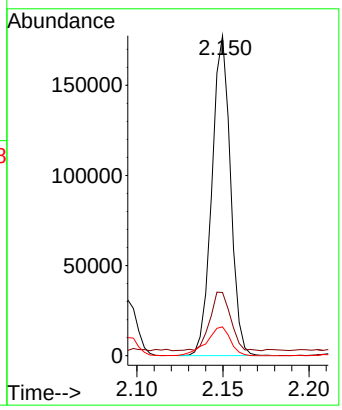


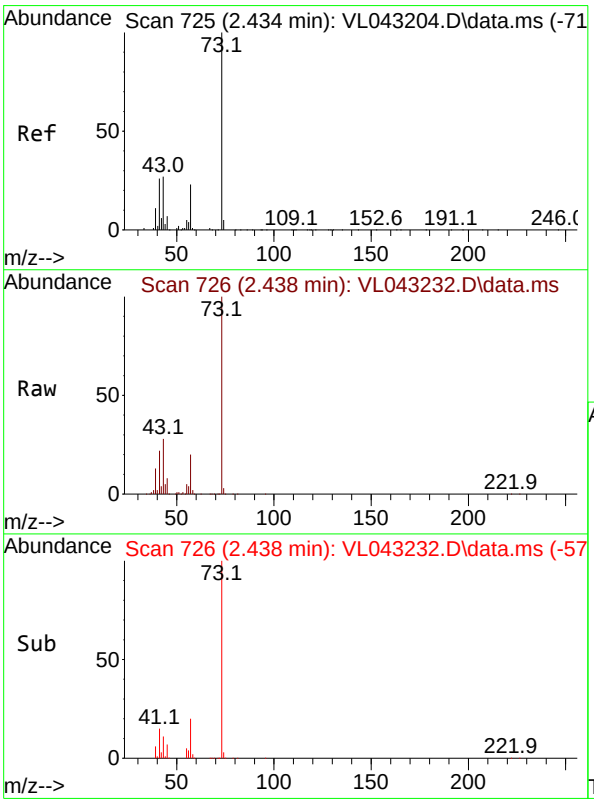
#27
Carbon Disulfide
Concen: 10.687 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 76 Resp: 133103

Ion	Ratio	Lower	Upper
76	100		
44	20.4	16.1	24.1
78	11.5	9.6	14.4

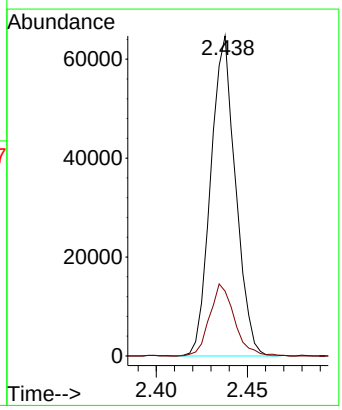


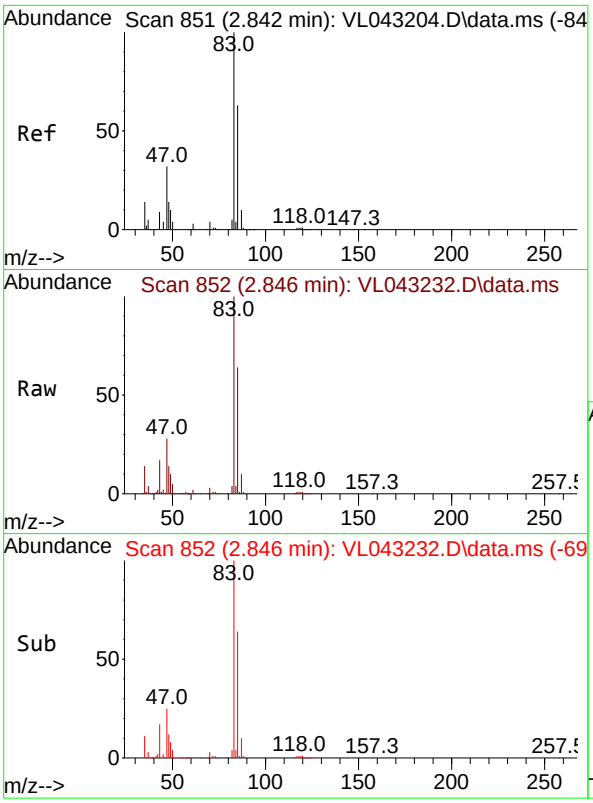


#28
Methyl tert-Butyl Ether
Concen: 10.265 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 73 Resp: 61465

Ion	Ratio	Lower	Upper
73	100		
57	22.6	19.8	29.8



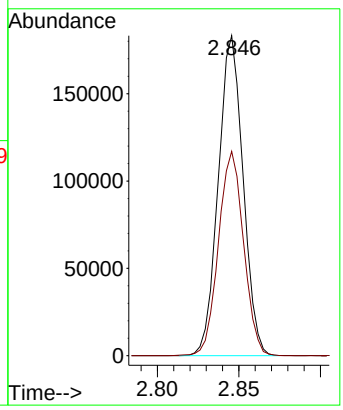


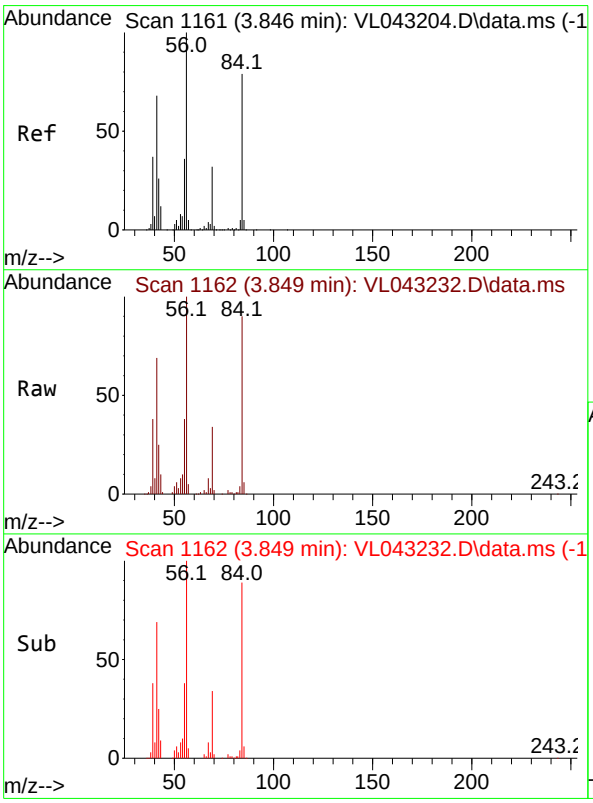
#29
Chloroform
Concen: 11.166 ppbv
RT: 2.846 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 193620

Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.5	75.7

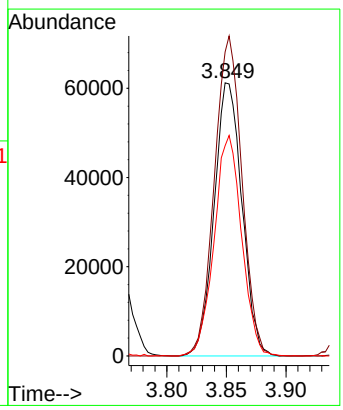


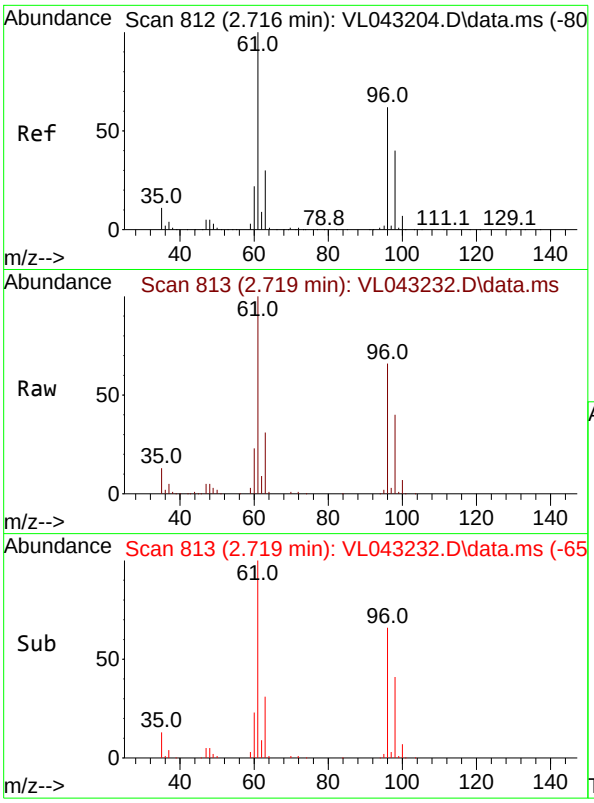


#30
Cyclohexane
Concen: 9.707 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 84 Resp: 99278

Ion	Ratio	Lower	Upper
84	100		
56	116.2	104.7	157.1
41	79.9	69.0	103.6



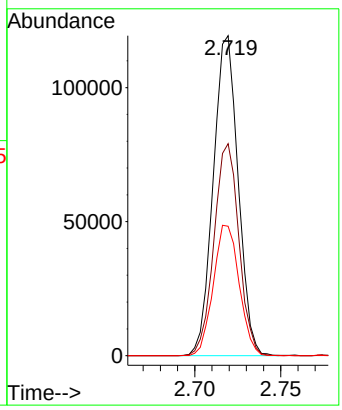


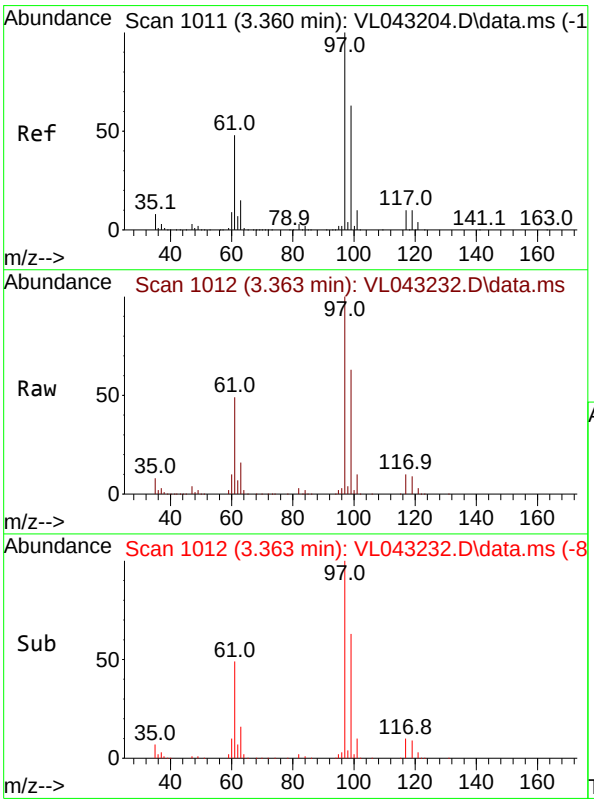
#31
cis-1,2-Dichloroethene
Concen: 9.907 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 61 Resp: 120121

Ion	Ratio	Lower	Upper
61	100		
96	66.2	49.3	73.9
98	40.4	32.1	48.1

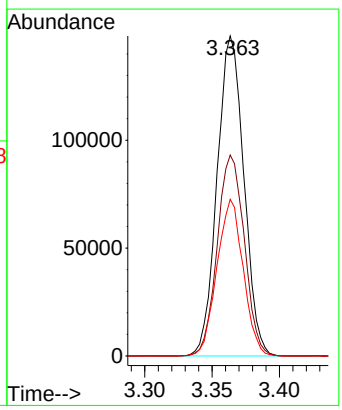


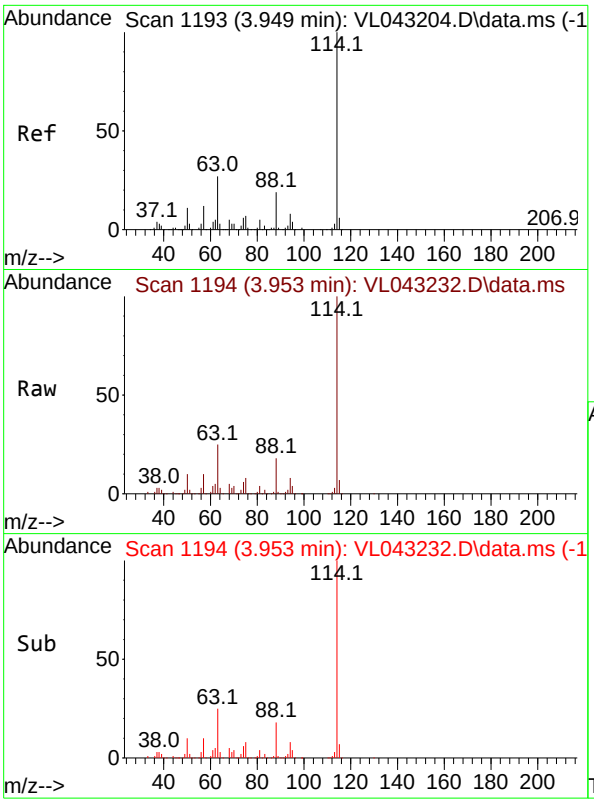


#32
1,1,1-Trichloroethane
Concen: 11.112 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 97 Resp: 205379

Ion	Ratio	Lower	Upper
97	100		
99	63.4	50.3	75.5
61	48.0	38.9	58.3



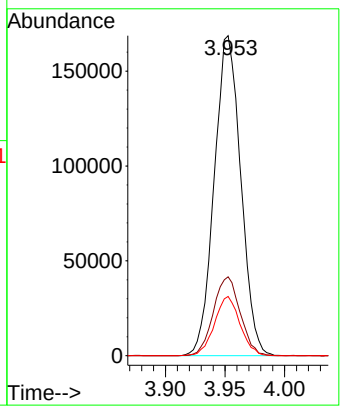


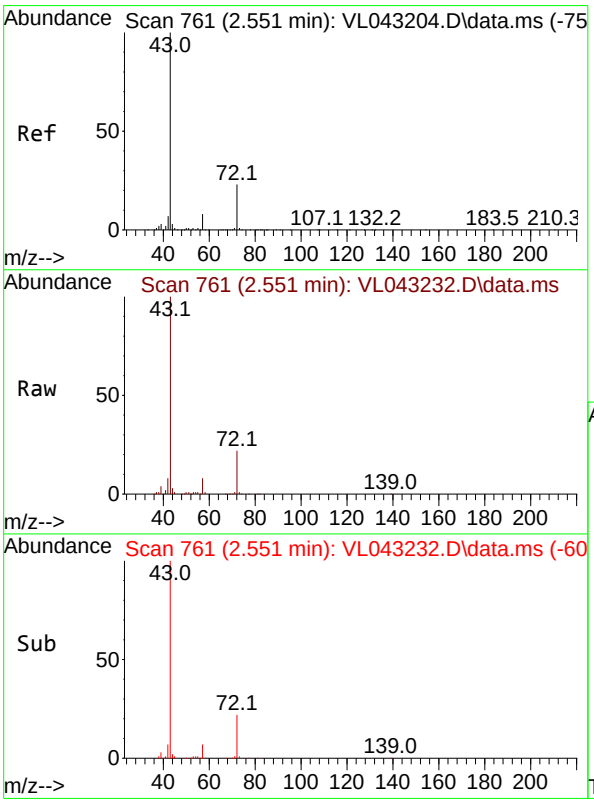
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.953 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:114 Resp: 261062

Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.0	31.6
88	17.8	14.9	22.3

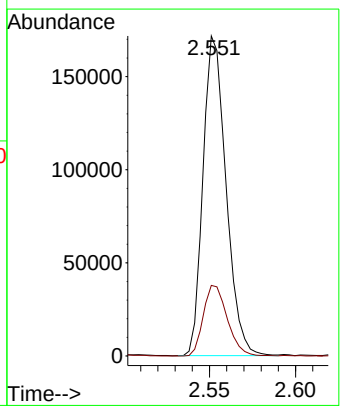


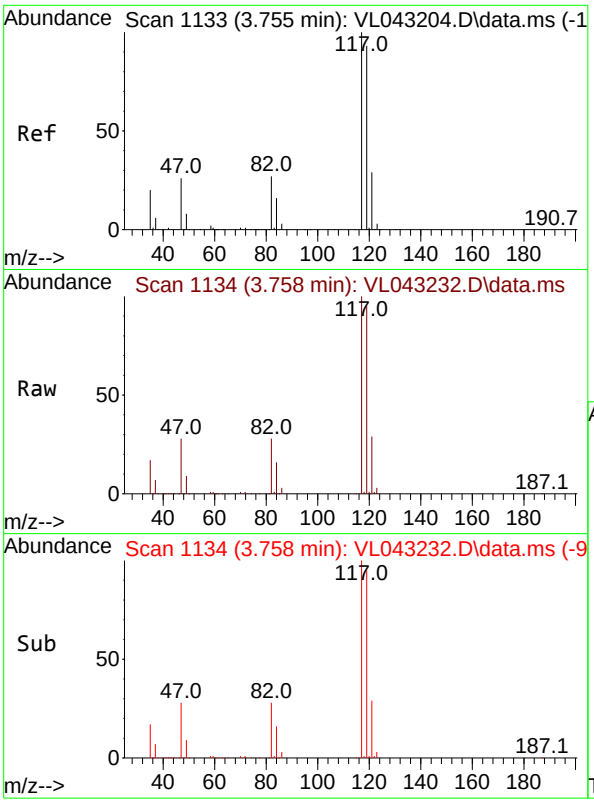


#34
2-Butanone
Concen: 8.659 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 43 Resp: 159571

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.1	27.1



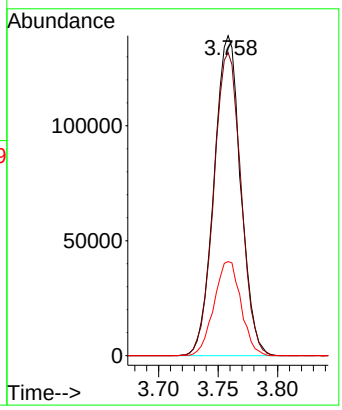


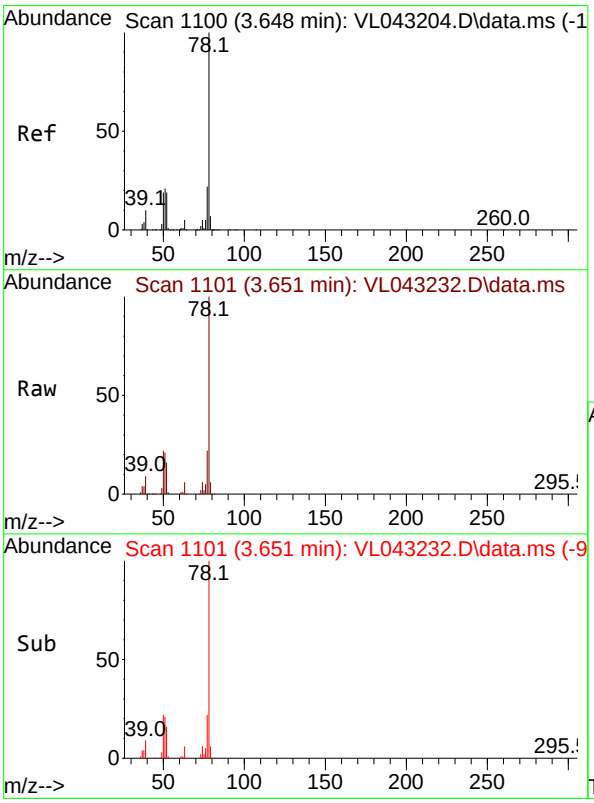
#35
Carbon Tetrachloride
Concen: 10.900 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 215989

Ion	Ratio	Lower	Upper
117	100		
119	94.7	74.6	112.0
121	29.4	23.2	34.8

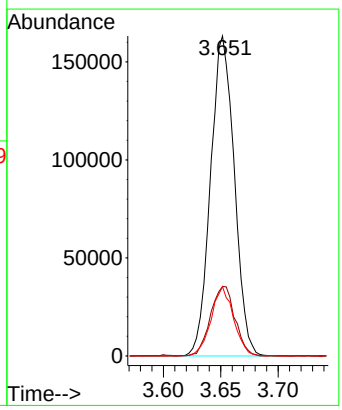


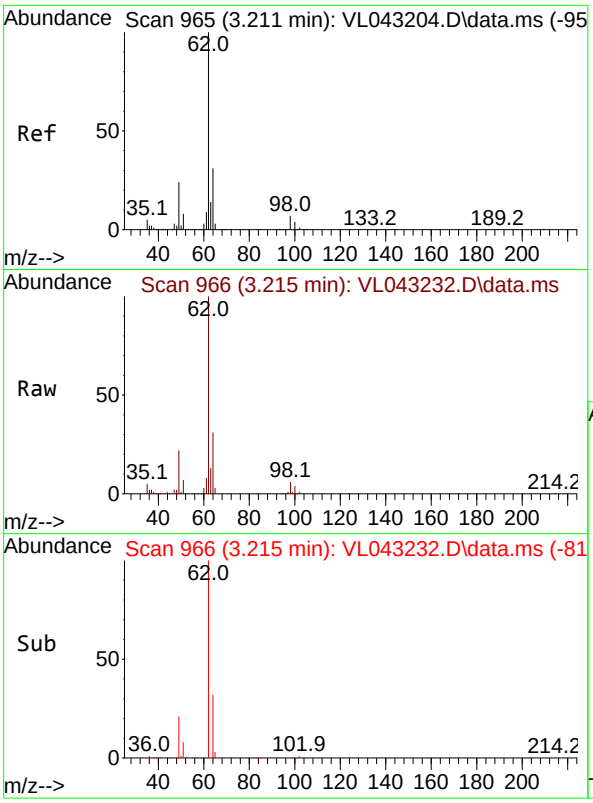


#36
Benzene
Concen: 9.400 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 78 Resp: 235020

Ion	Ratio	Lower	Upper
78	100		
77	21.7	17.5	26.3
50	21.7	15.5	23.3



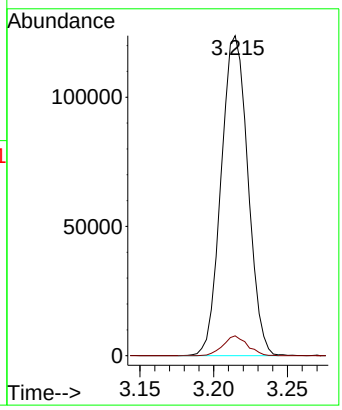


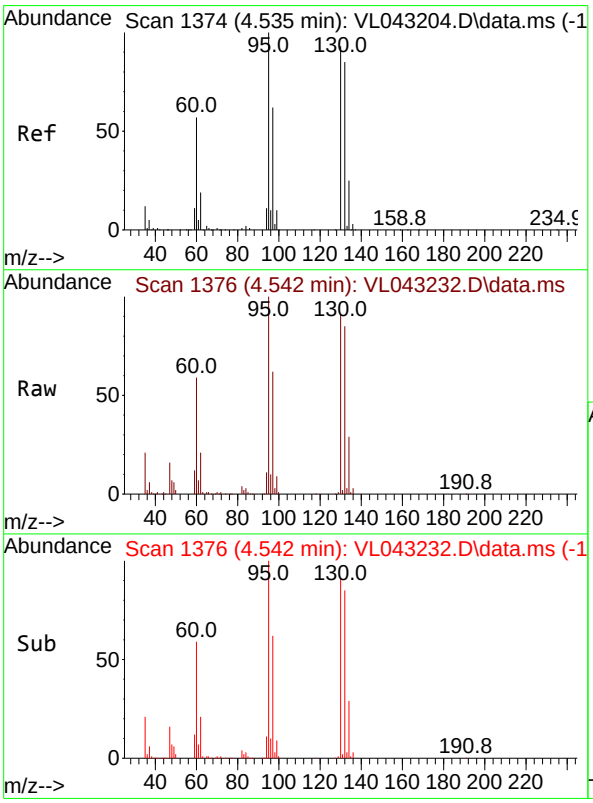
#37
1,2-Dichloroethane
Concen: 10.672 ppbv
RT: 3.215 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 156071

Ion	Ratio	Lower	Upper
62	100		
98	5.7	5.5	8.3

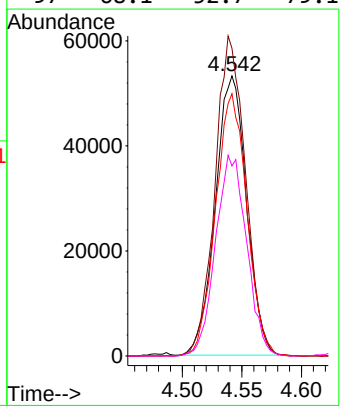


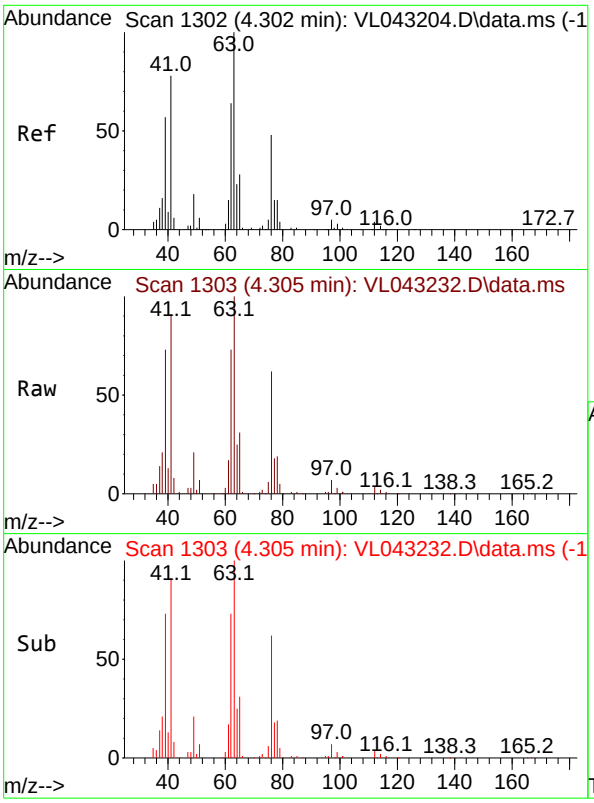


#38
Trichloroethene
Concen: 9.902 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:130 Resp: 96860

Ion	Ratio	Lower	Upper
130	100		
95	110.1	85.7	128.5
132	93.7	73.4	110.0
97	68.1	52.7	79.1



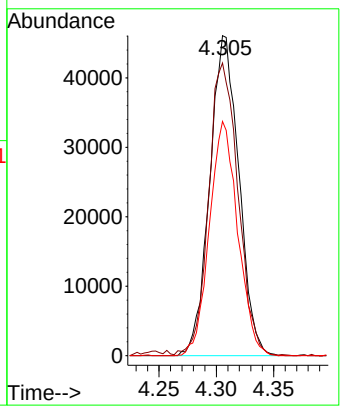


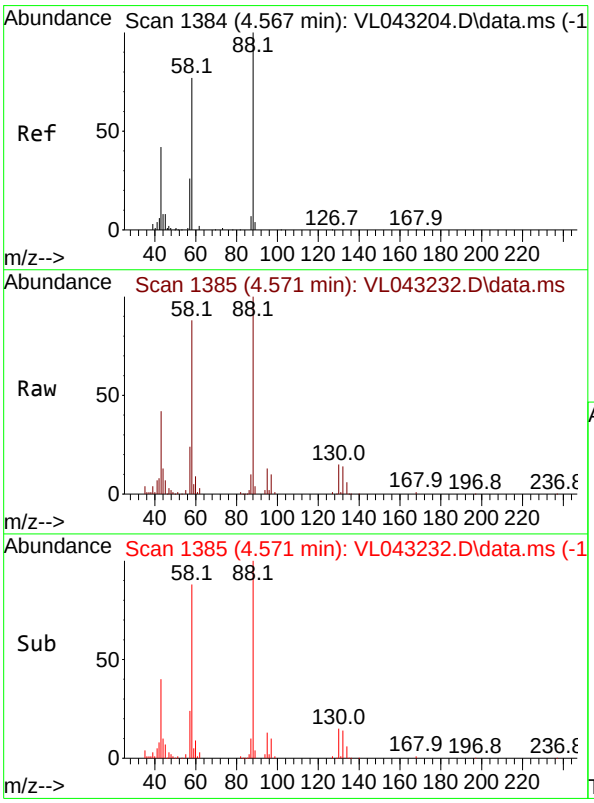
#39
1,2-Dichloropropane
Concen: 8.891 ppbv
RT: 4.305 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 63 Resp: 81356

Ion	Ratio	Lower	Upper
63	100		
41	91.0	62.6	93.8
62	73.2	51.0	76.6

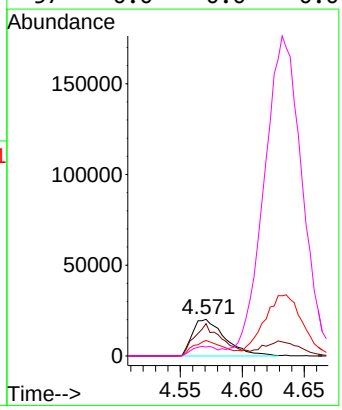


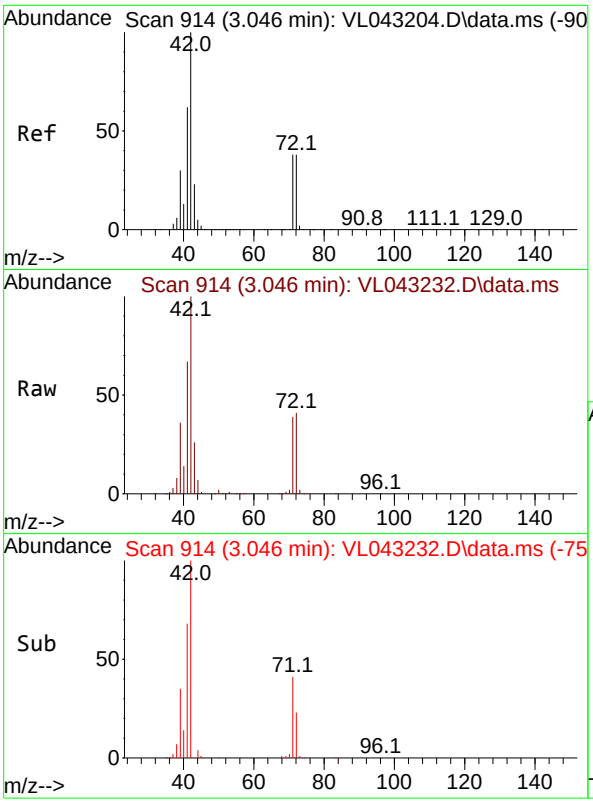


#40
1,4-Dioxane
Concen: 8.983 ppbv
RT: 4.571 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 88 Resp: 36952

Ion	Ratio	Lower	Upper
88	100		
58	76.6	63.0	94.6
43	39.9	32.5	48.7
57	0.0	0.0	0.0



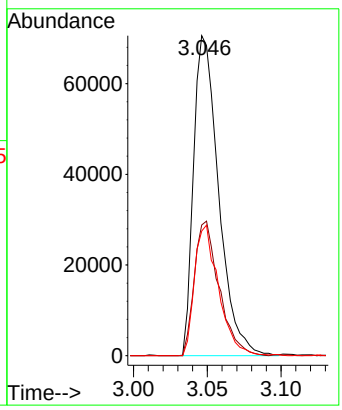


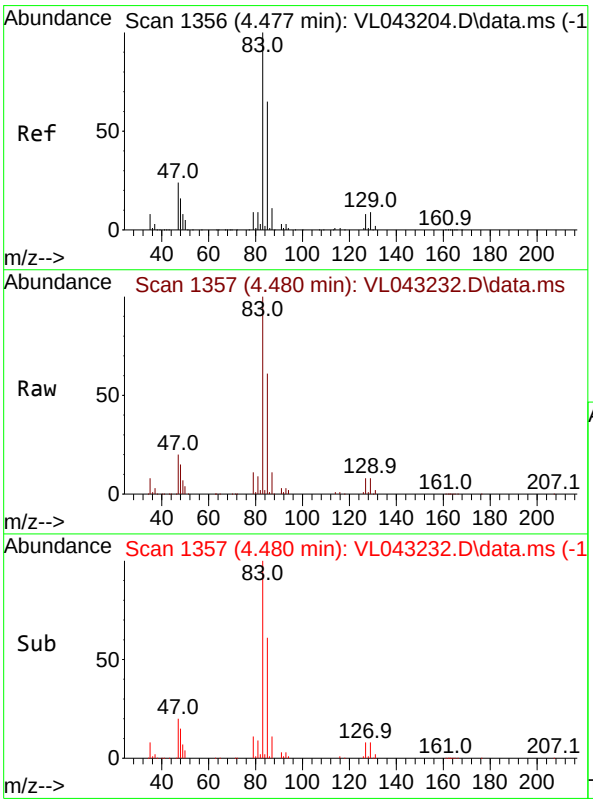
#41
Tetrahydrofuran
Concen: 8.223 ppbv
RT: 3.046 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 42 Resp: 83683

Ion	Ratio	Lower	Upper
42	100		
72	41.6	30.6	46.0
71	39.3	30.5	45.7

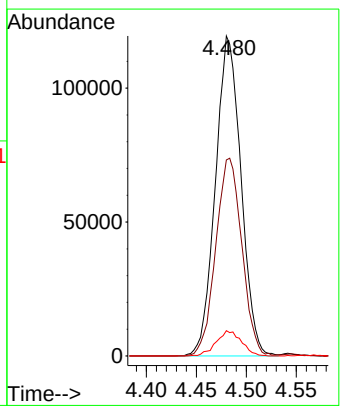


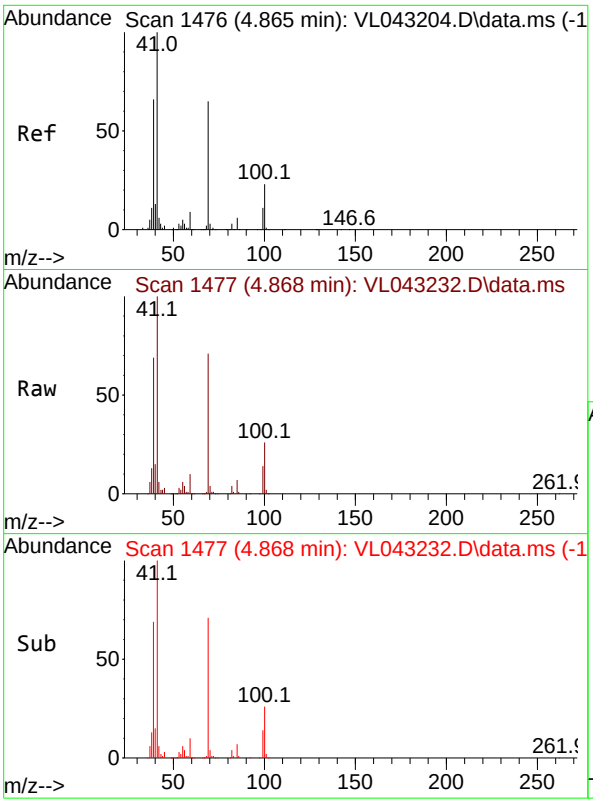


#42
Bromodichloromethane
Concen: 10.549 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 83 Resp: 212816

Ion	Ratio	Lower	Upper
83	100		
85	61.2	51.7	77.5
127	7.9	6.3	9.5



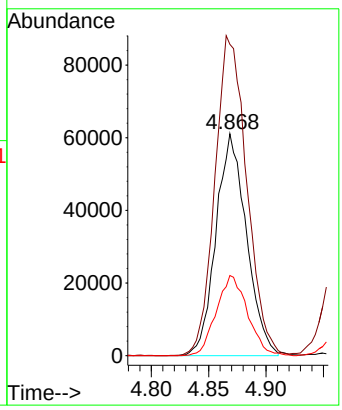


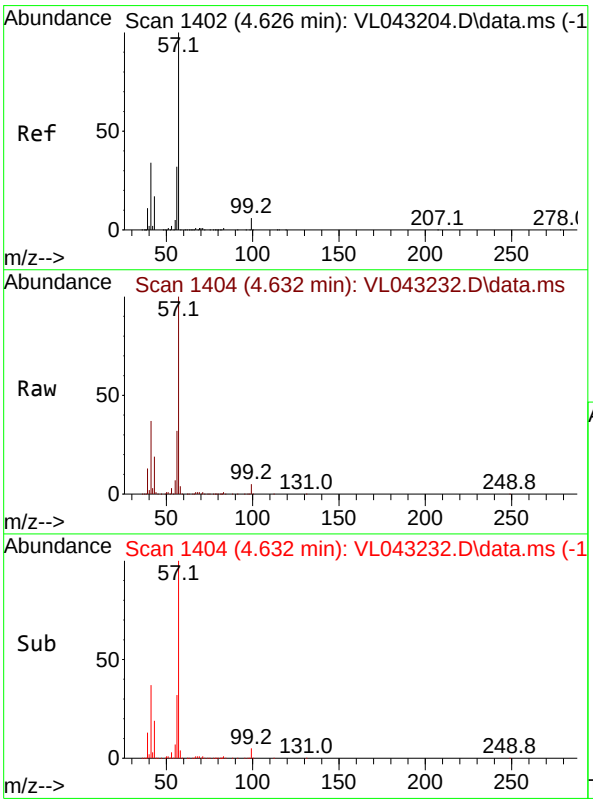
#43
Methyl Methacrylate
Concen: 8.514 ppbv
RT: 4.868 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 112985

Ion	Ratio	Lower	Upper
69	100		
41	150.6	126.7	190.1
100	37.0	28.6	43.0

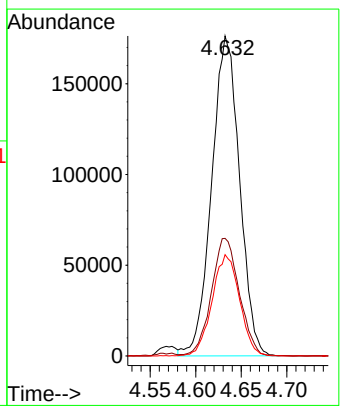


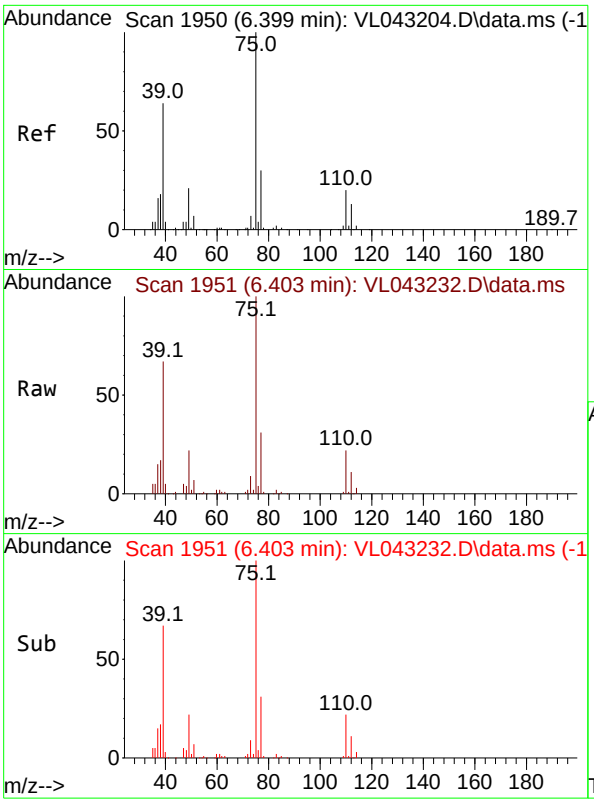


#44
2,2,4-Trimethylpentane
Concen: 8.730 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 57 Resp: 374848

Ion	Ratio	Lower	Upper
57	100		
41	37.7	28.0	42.0
56	31.3	25.6	38.4



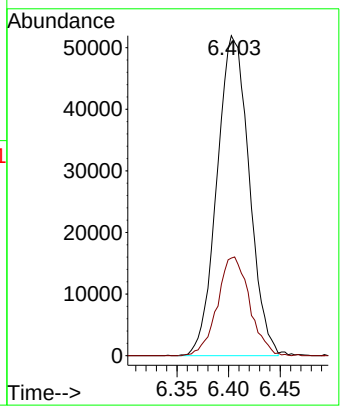


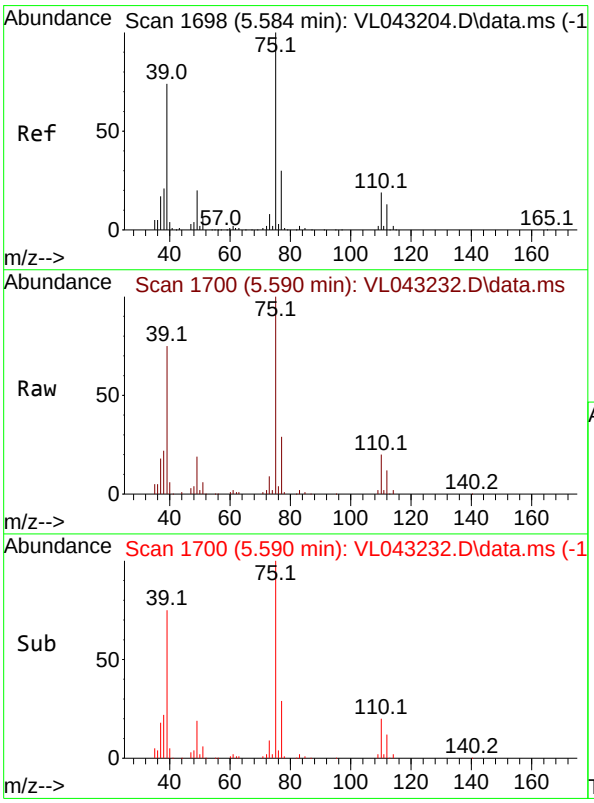
#45
t-1,3-Dichloropropene
Concen: 9.111 ppbv
RT: 6.403 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 75 Resp: 112704

Ion	Ratio	Lower	Upper
75	100		
77	30.5	24.3	36.5

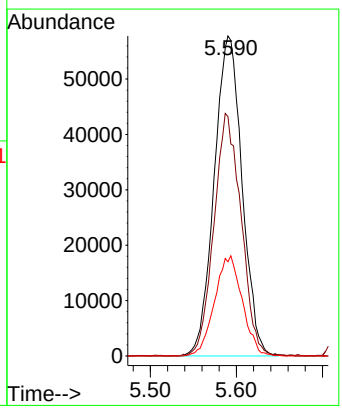


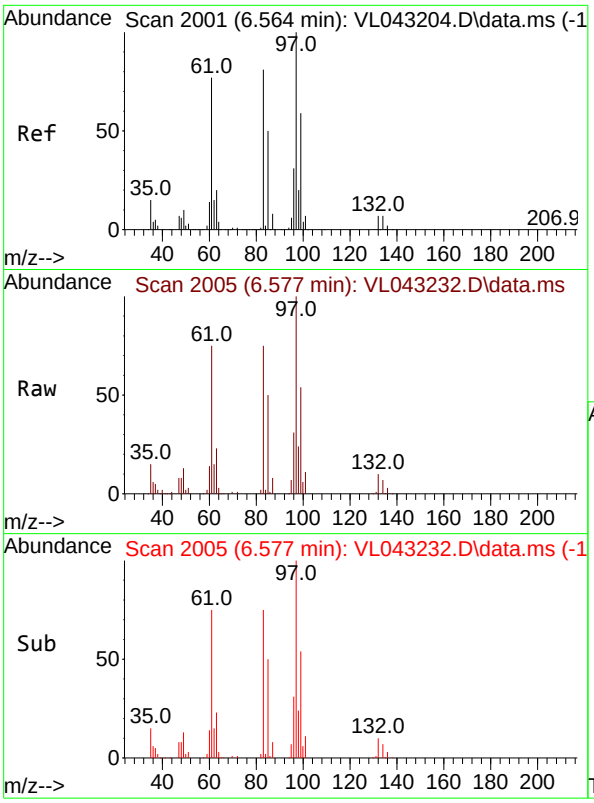


#46
cis-1,3-Dichloropropene
Concen: 8.947 ppbv
RT: 5.590 min Scan# 1700
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 75 Resp: 129954

Ion	Ratio	Lower	Upper
75	100		
39	74.8	59.1	88.7
77	29.4	24.2	36.2



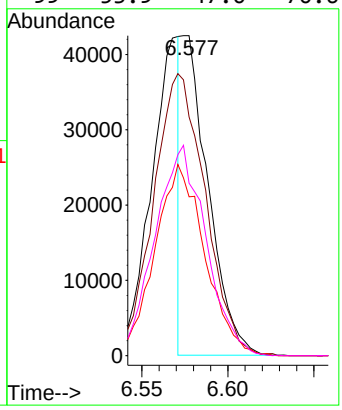


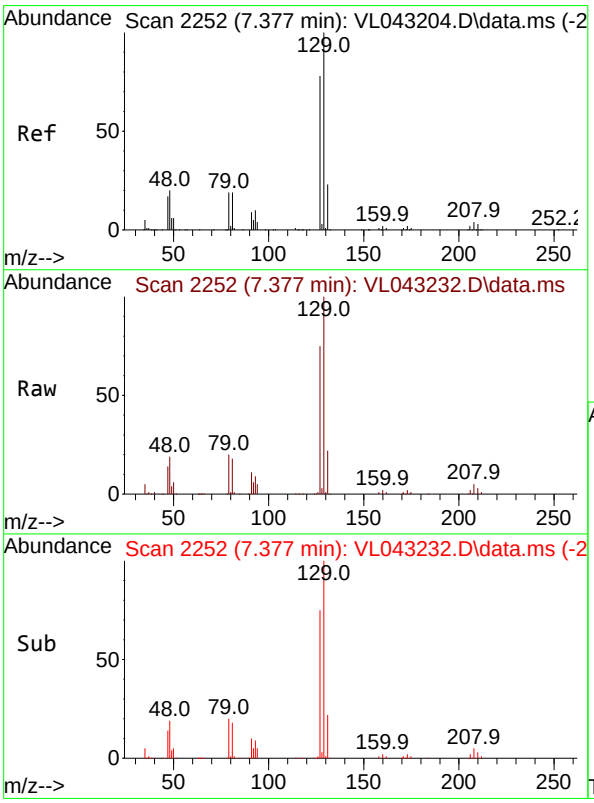
#47
1,1,2-Trichloroethane
Concen: 4.711 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 97 Resp: 45748

Ion	Ratio	Lower	Upper
97	100		
83	74.7	64.6	97.0
85	49.7	39.4	59.2
99	53.9	47.0	70.6

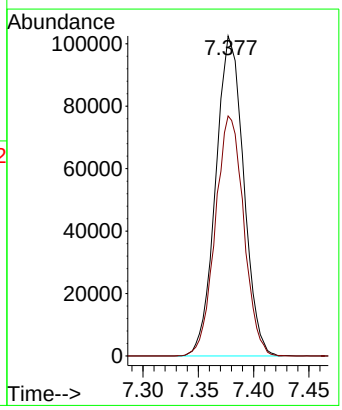


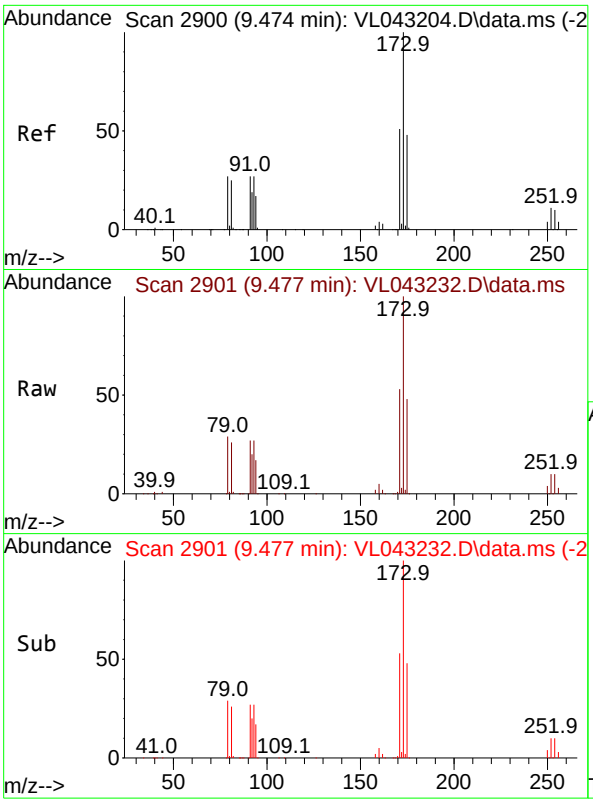


#48
Dibromochloromethane
Concen: 10.778 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:129 Resp: 179951

Ion	Ratio	Lower	Upper
129	100		
127	76.2	39.3	117.9



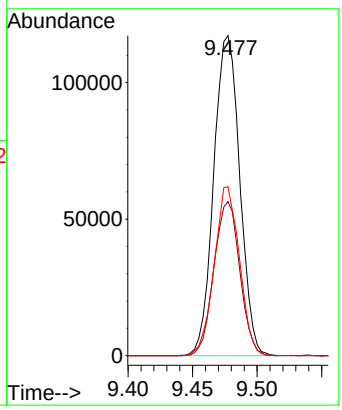


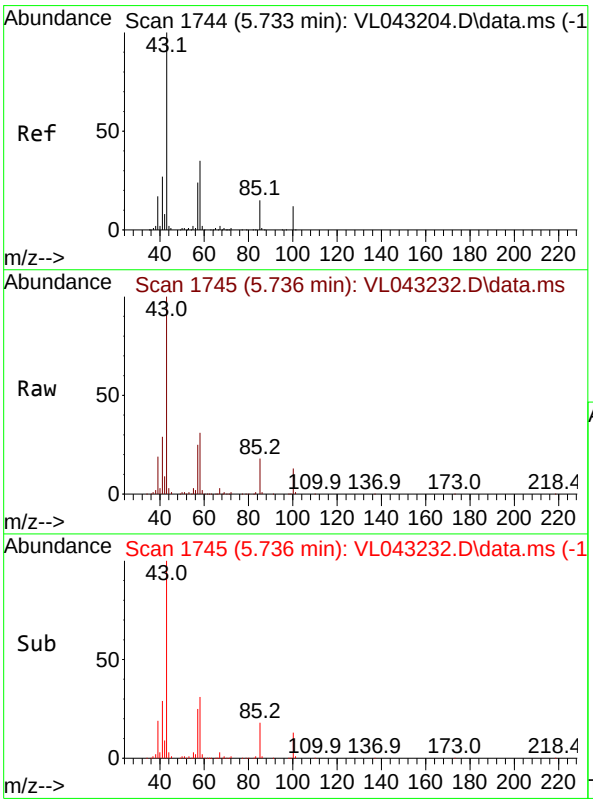
#49
Bromoform
Concen: 11.110 ppbv
RT: 9.477 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:173 Resp: 164309

Ion	Ratio	Lower	Upper
173	100		
175	47.8	38.6	58.0
171	51.2	40.6	61.0

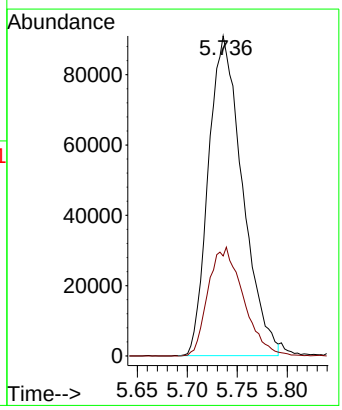


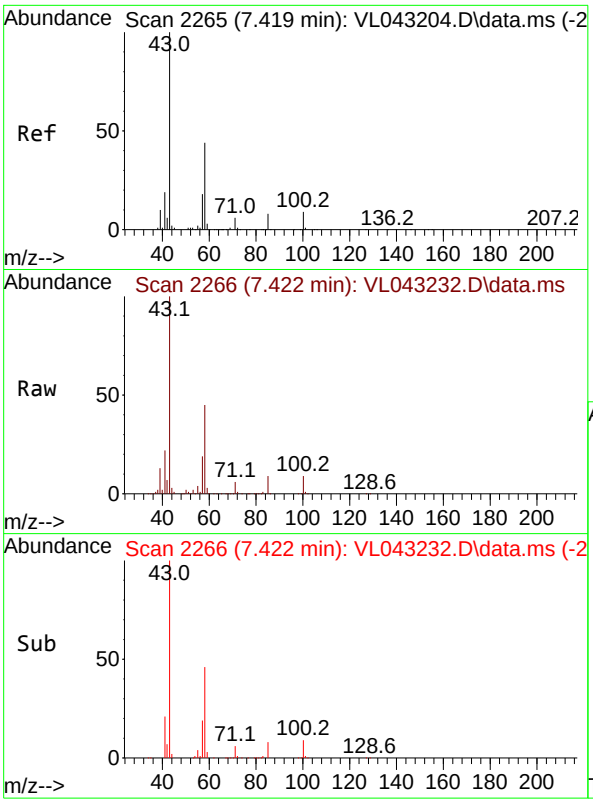


#50
4-Methyl-2-Pentanone
Concen: 8.290 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 43 Resp: 215210

Ion	Ratio	Lower	Upper
43	100		
58	35.3	28.4	42.6



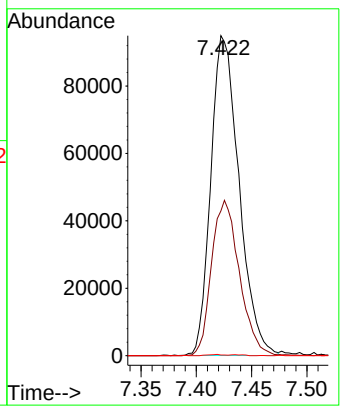


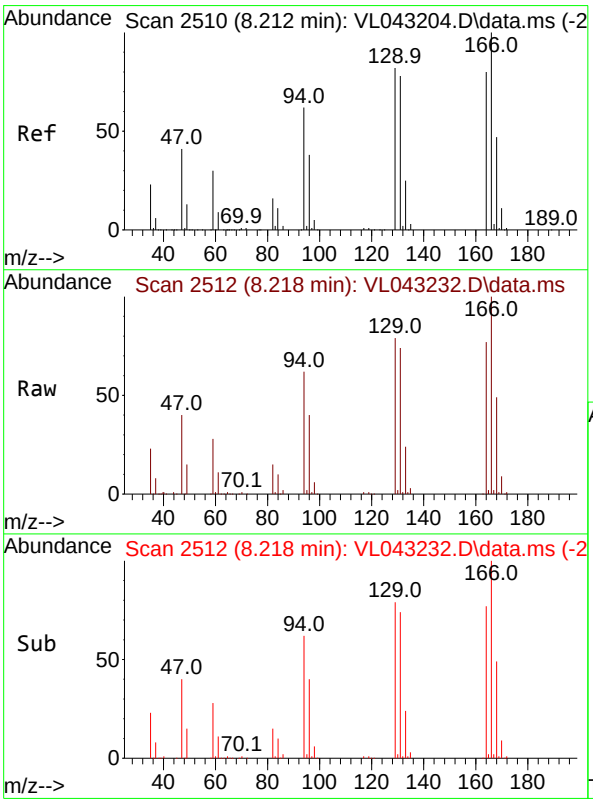
#51
2-Hexanone
Concen: 8.339 ppbv
RT: 7.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 168100

Ion	Ratio	Lower	Upper
43	100		
58	48.2	38.4	57.6
98	0.4	0.0	0.0#

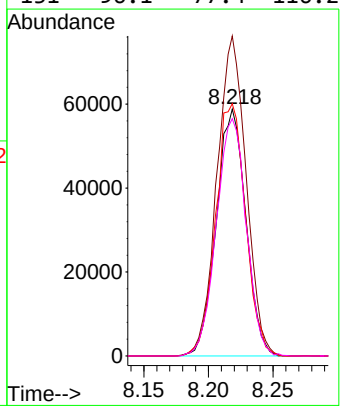


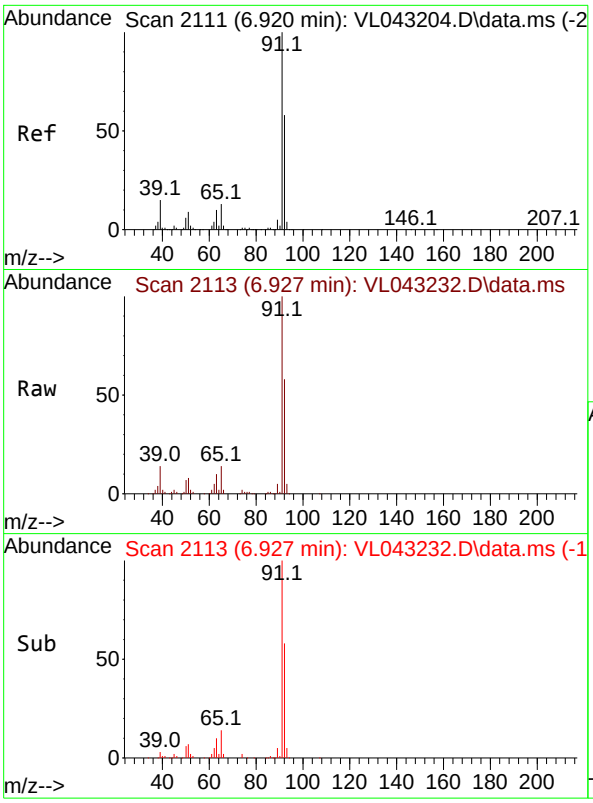


#52
Tetrachloroethene
Concen: 10.048 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:164 Resp: 93448

Ion	Ratio	Lower	Upper
164	100		
166	129.5	99.4	149.2
129	102.2	81.8	122.8
131	96.1	77.4	116.2



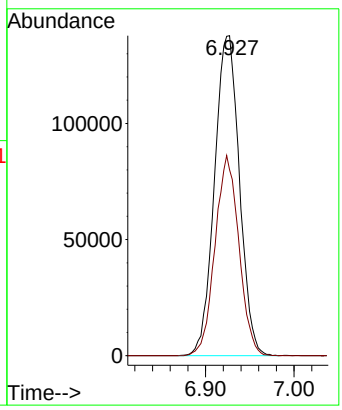


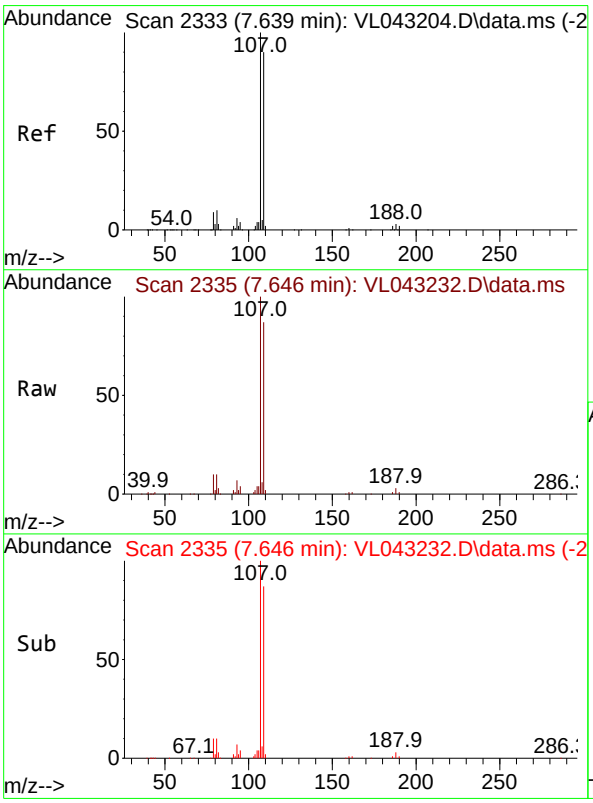
#53
Toluene
Concen: 9.125 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 270136

Ion	Ratio	Lower	Upper
91	100		
92	59.7	47.4	71.0

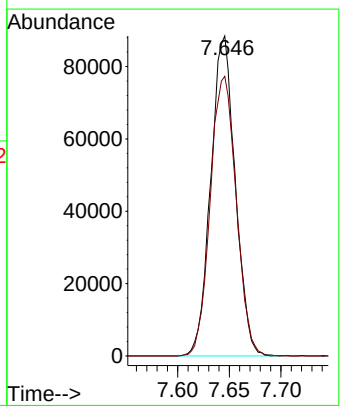


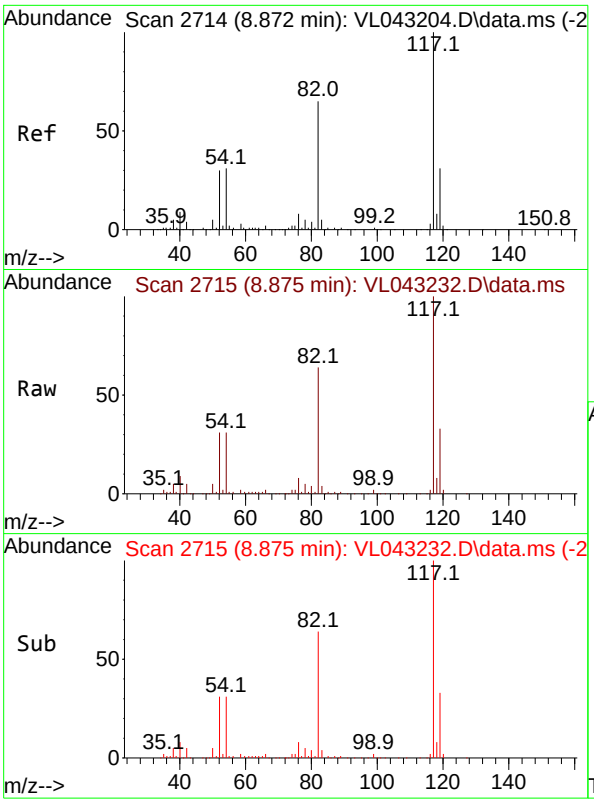


#54
1,2-Dibromoethane
Concen: 10.221 ppbv
RT: 7.646 min Scan# 2335
Delta R.T. 0.007 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:107 Resp: 146059

Ion	Ratio	Lower	Upper
107	100		
109	87.4	72.1	108.1



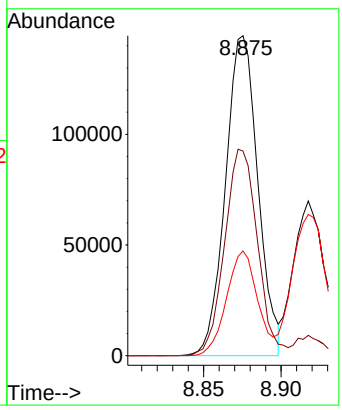


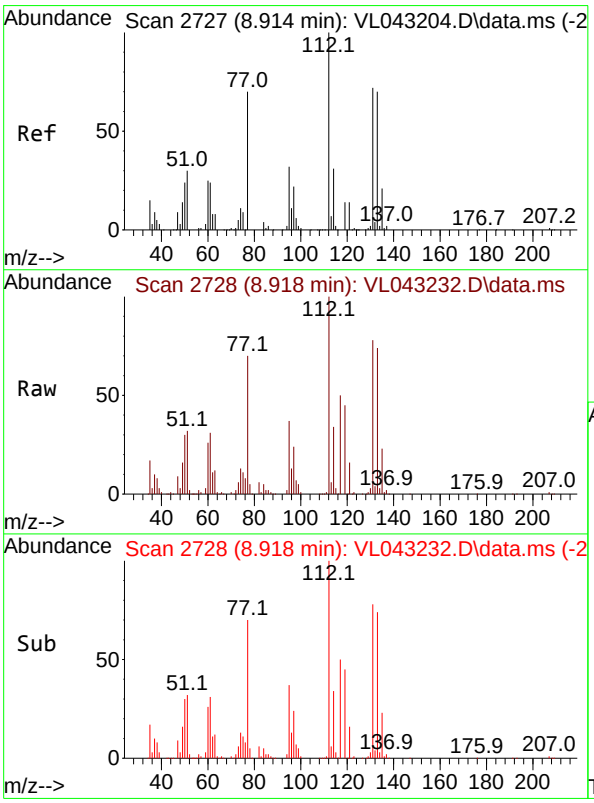
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 210840

Ion	Ratio	Lower	Upper
117	100		
82	70.5	56.1	84.1
119	31.3	25.0	37.6

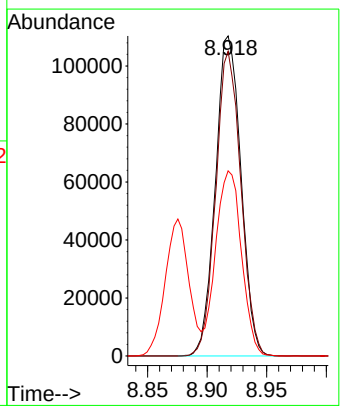


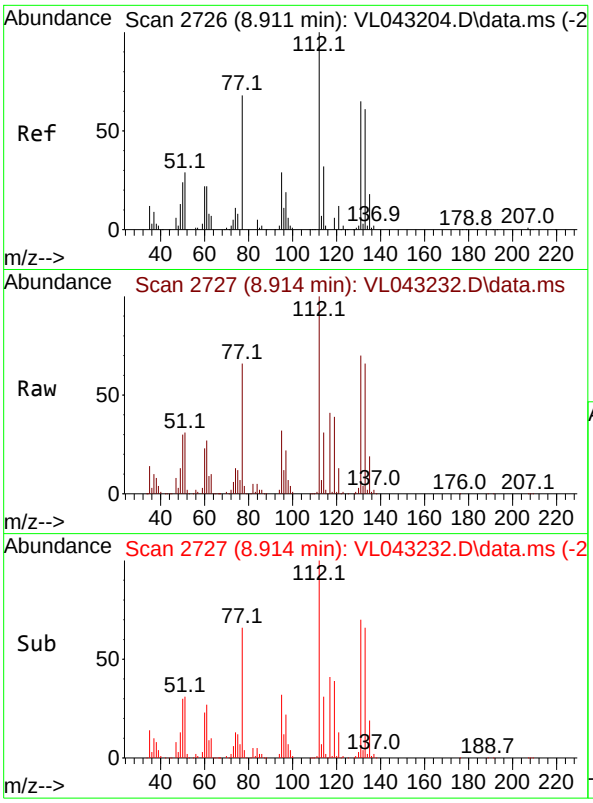


#56
1,1,1,2-Tetrachloroethane
Concen: 10.618 ppbv
RT: 8.918 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:131 Resp: 164526

Ion	Ratio	Lower	Upper
131	100		
133	93.6	77.4	116.2
119	59.6	49.1	73.7



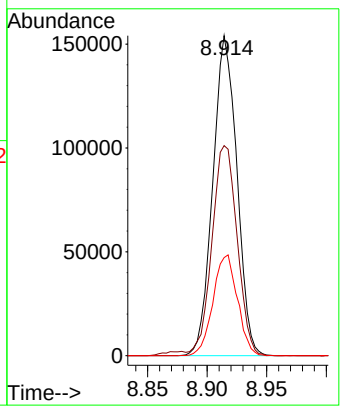


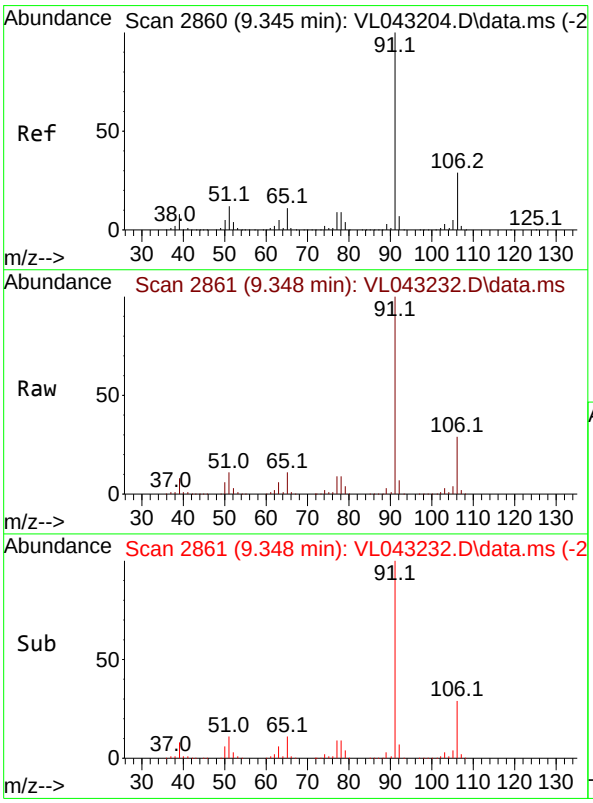
#57
Chlorobenzene
Concen: 9.993 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:112 Resp: 216324

Ion	Ratio	Lower	Upper
112	100		
77	65.6	55.5	83.3
114	30.7	29.1	35.5

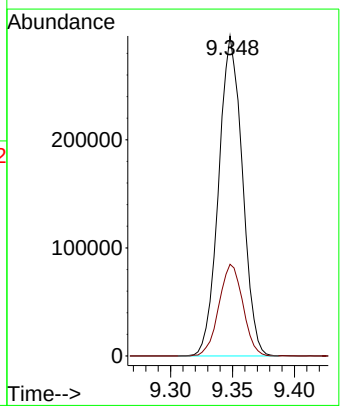


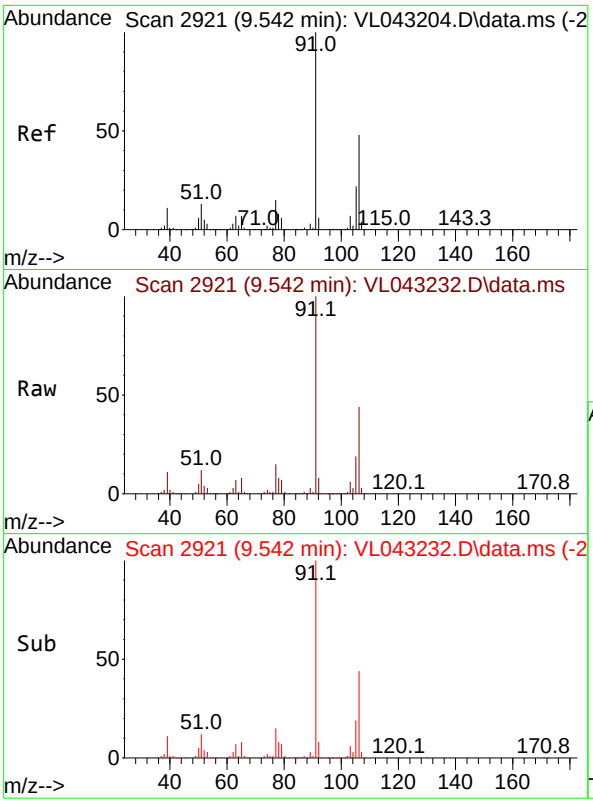


#58
Ethyl Benzene
Concen: 9.726 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 91 Resp: 394701

Ion	Ratio	Lower	Upper
91	100		
106	28.6	22.8	34.2



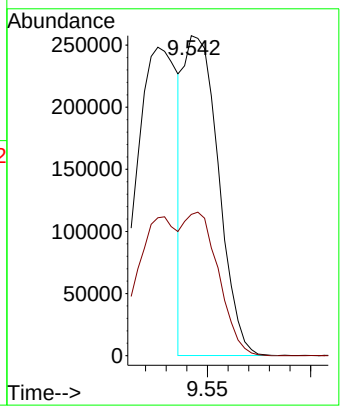


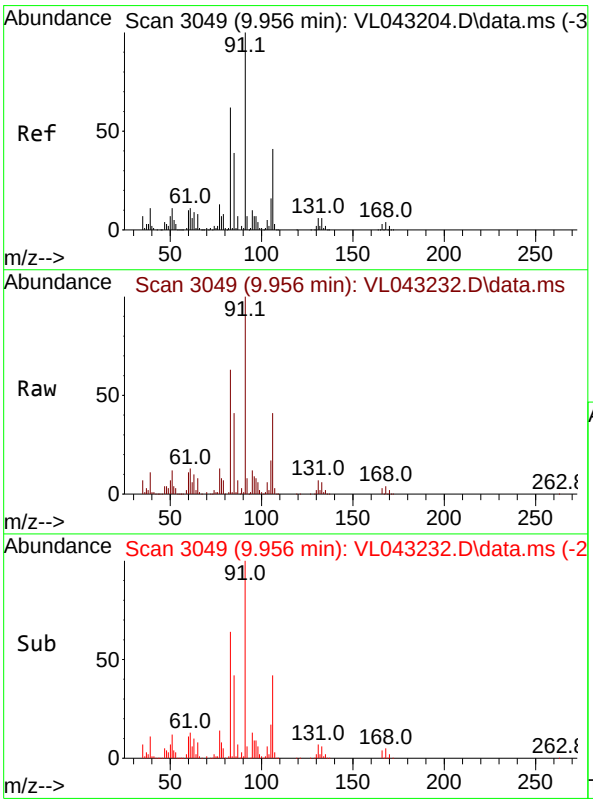
#59
m/p-Xylene
Concen: 9.263 ppbv
RT: 9.542 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 301368

Ion	Ratio	Lower	Upper
91	100		
106	95.4	36.1	54.1#

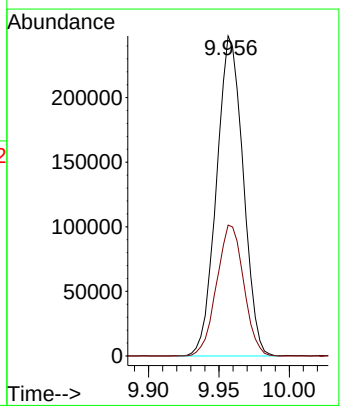


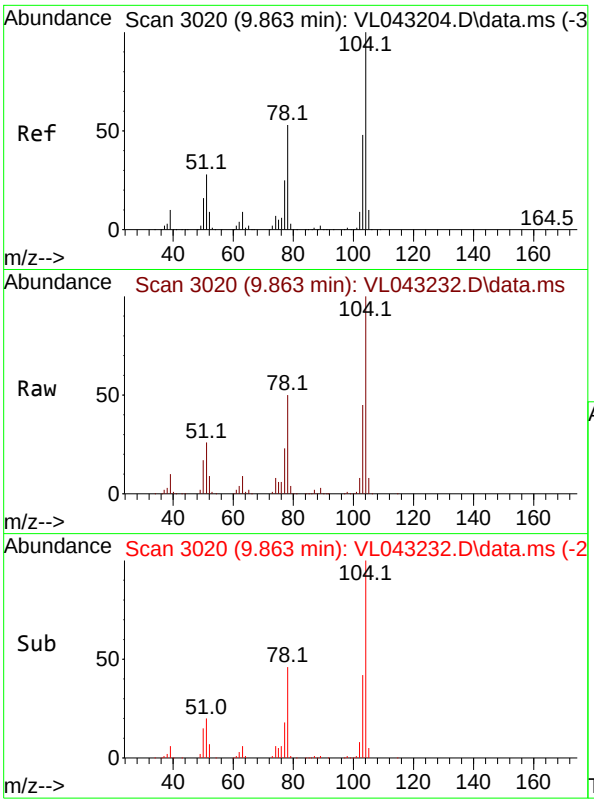


#60
o-Xylene
Concen: 10.030 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 91 Resp: 326016

Ion	Ratio	Lower	Upper
91	100		
106	41.6	20.9	62.8



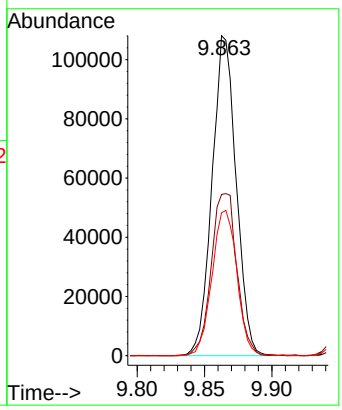


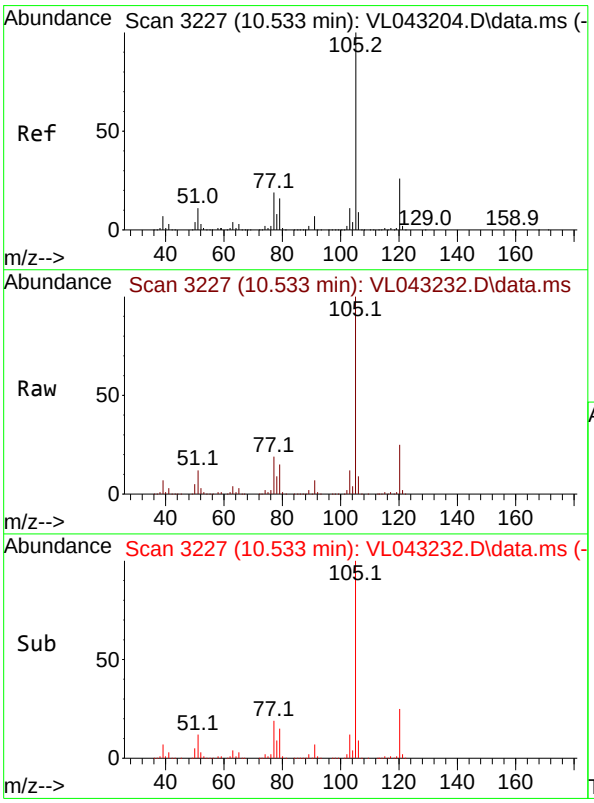
#61
Styrene
Concen: 9.444 ppbv
RT: 9.863 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 134337

Ion	Ratio	Lower	Upper
104	100		
78	54.0	42.1	63.1
103	47.1	37.2	55.8

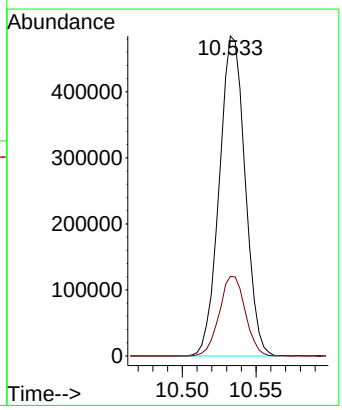


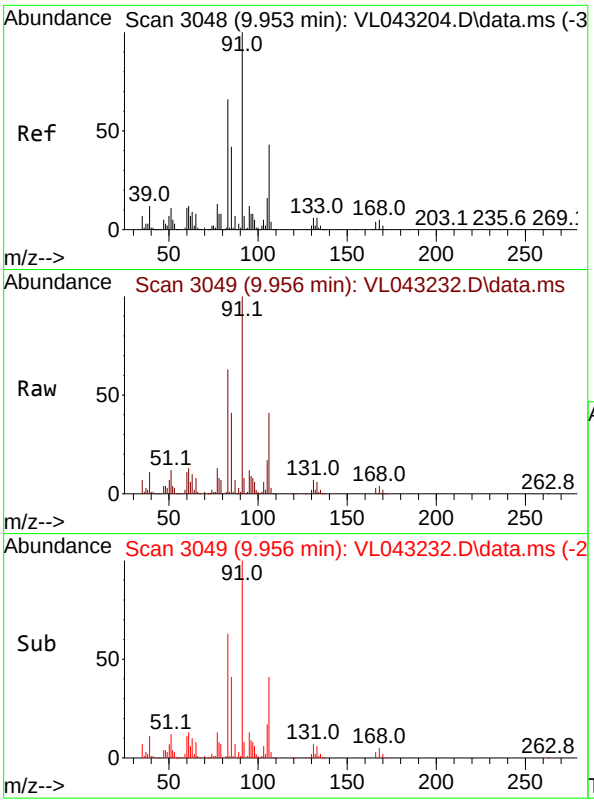


#62
Isopropylbenzene
Concen: 10.120 ppbv
RT: 10.533 min Scan# 3227
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:105 Resp: 588476

Ion	Ratio	Lower	Upper
105	100		
120	25.1	19.8	29.8



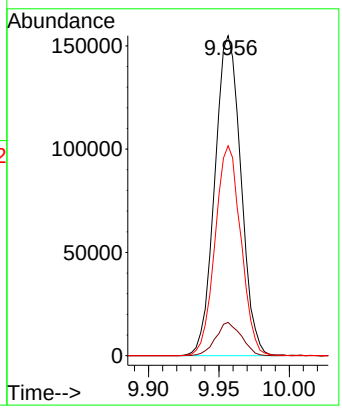


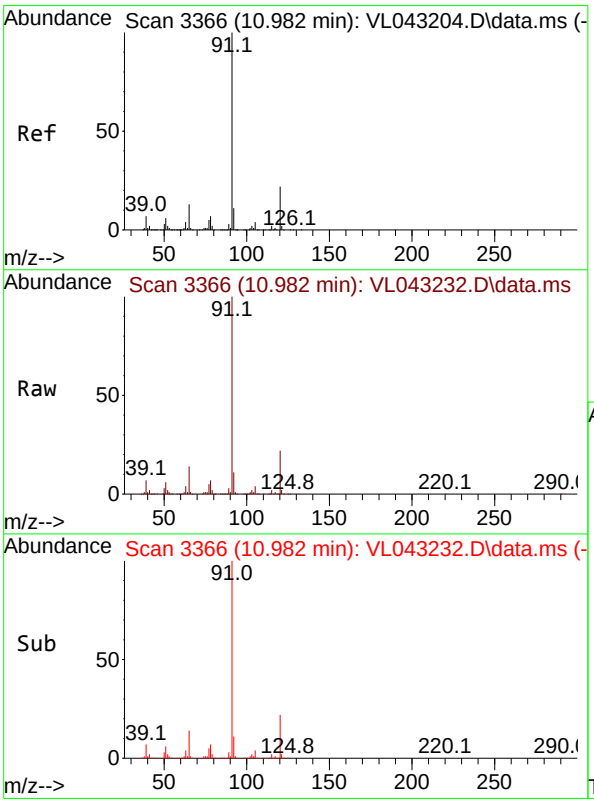
#63
1,1,2,2-Tetrachloroethane
Concen: 9.693 ppbv
RT: 9.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 200465

Ion	Ratio	Lower	Upper
83	100		
131	10.2	4.8	14.3
85	64.7	31.9	95.9

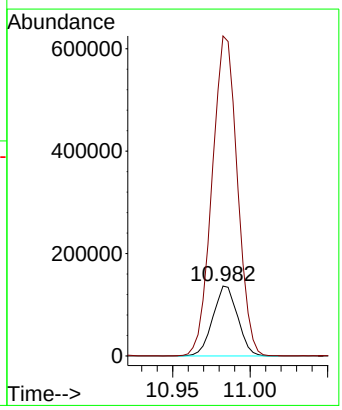


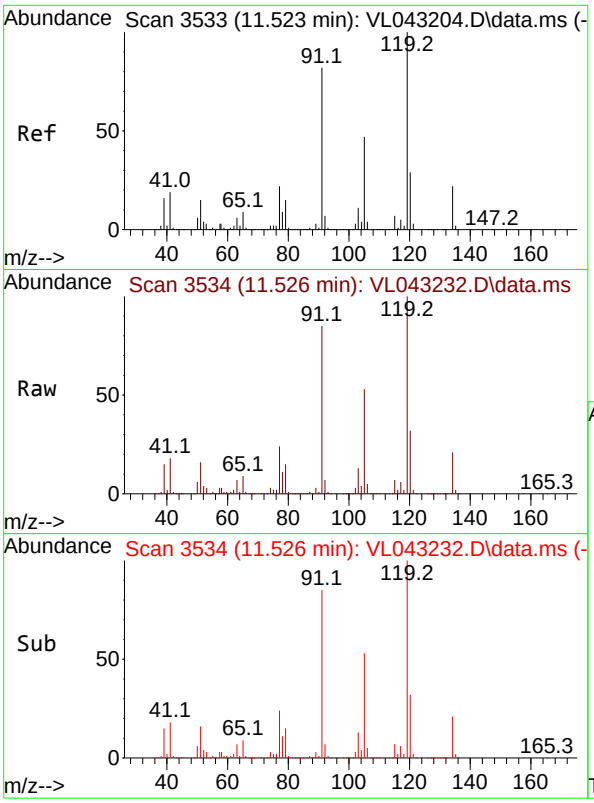


#64
n-propylbenzene
Concen: 10.126 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:120 Resp: 151292

Ion	Ratio	Lower	Upper
120	100		
91	469.0	377.1	565.7



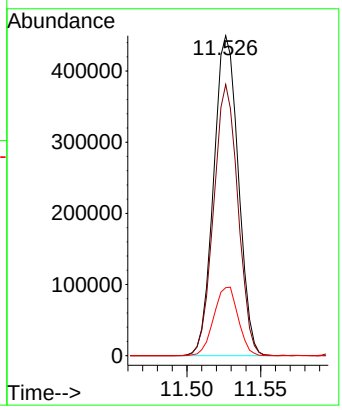


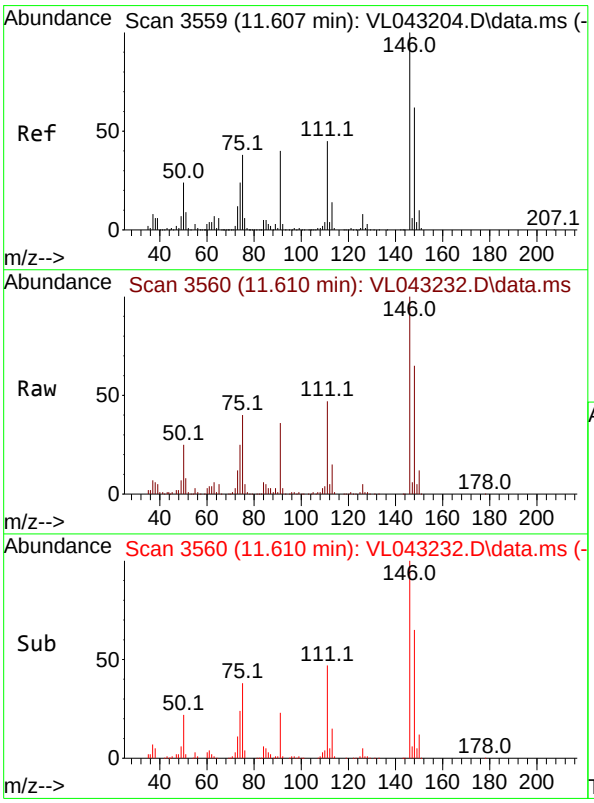
#65
tert-Butylbenzene
Concen: 10.080 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 523483

Ion	Ratio	Lower	Upper
119	100		
91	83.2	65.3	97.9
134	21.2	17.0	25.4

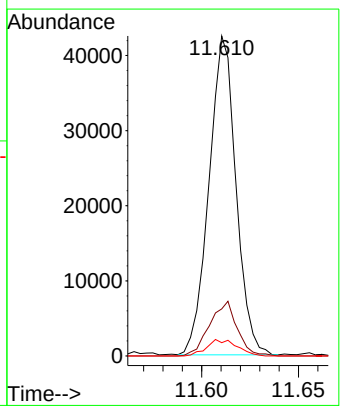


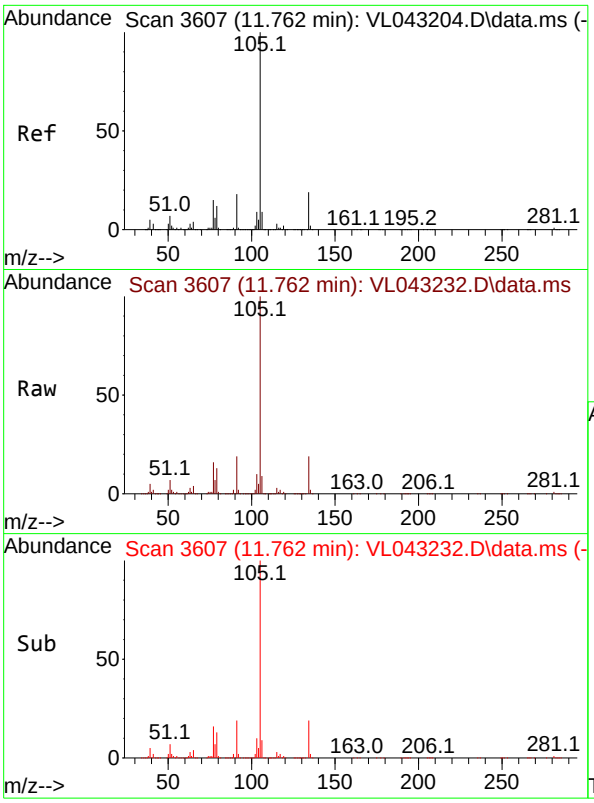


#66
Benzyl Chloride
Concen: 7.820 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 91 Resp: 41211

Ion	Ratio	Lower	Upper
91	100		
126	17.4	14.4	21.6
128	5.8	4.6	6.8



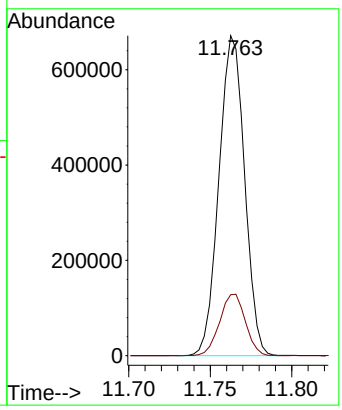


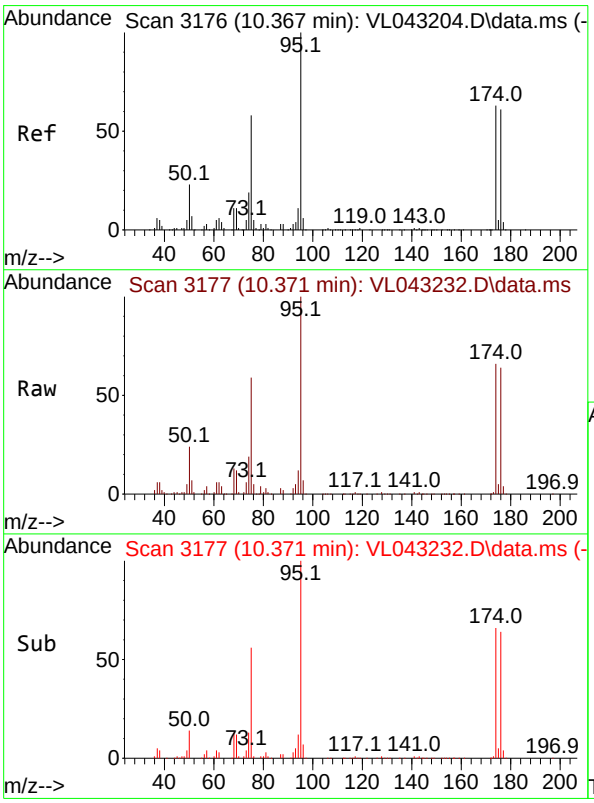
#67
sec-Butylbenzene
Concen: 10.123 ppbv
RT: 11.762 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 733799

Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.0	22.6

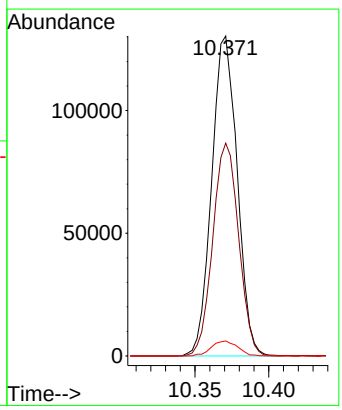


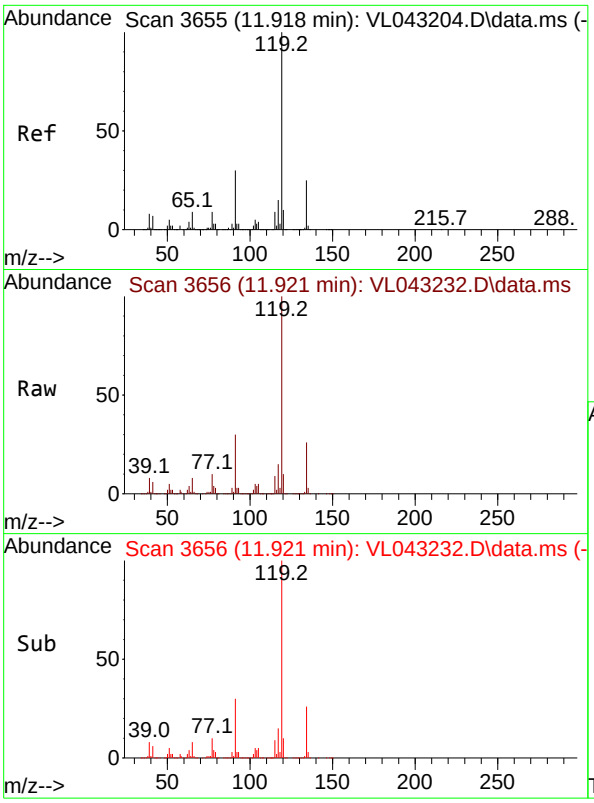


#68
1-Bromo-4-Fluorobenzene
Concen: 10.145 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 95 Resp: 156782

Ion	Ratio	Lower	Upper
95	100		
174	67.5	50.2	75.2
175	4.9	4.1	6.1



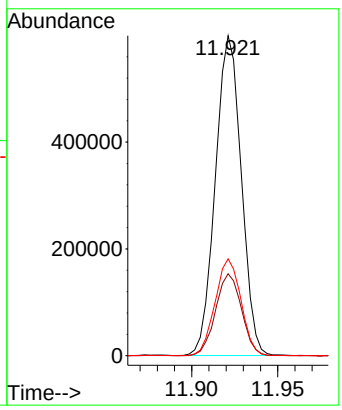


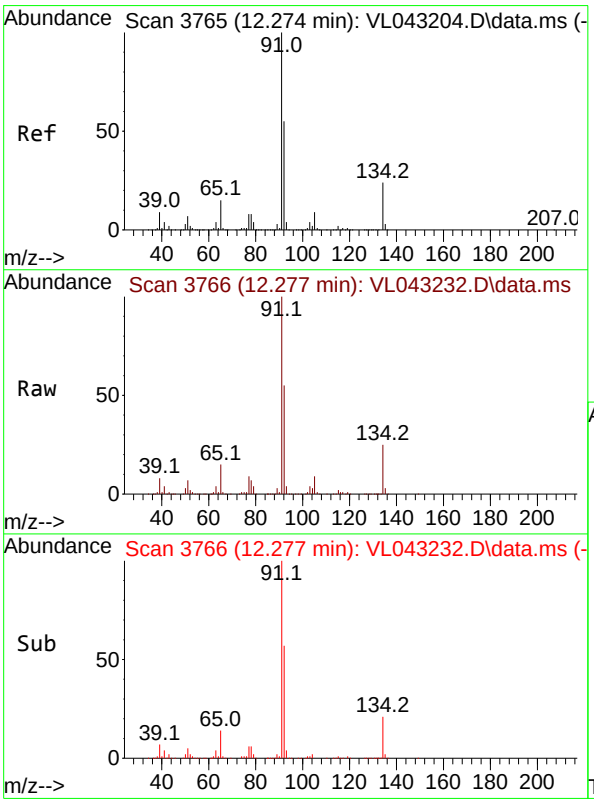
#69
p-Isopropyltoluene
Concen: 10.227 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 627991

Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.2	30.2
91	30.3	23.8	35.8

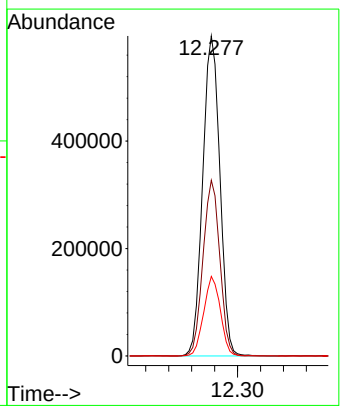


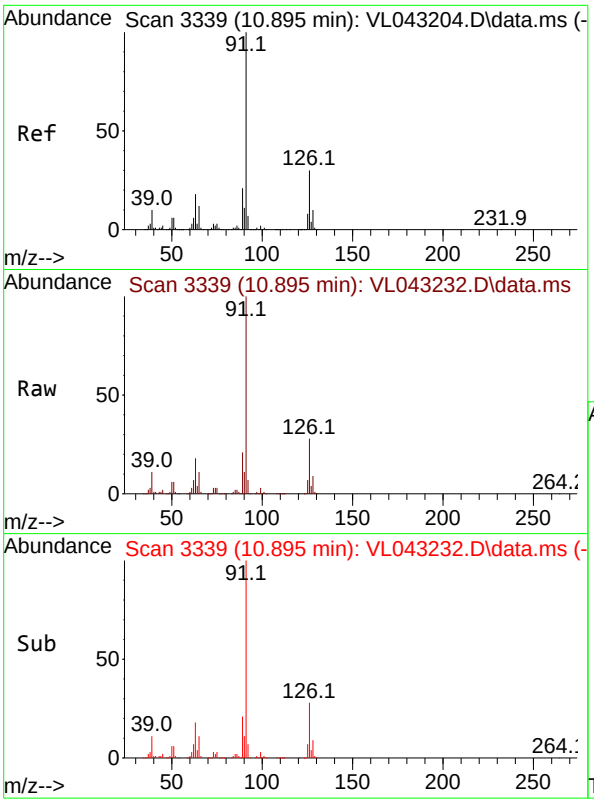


#70
n-Butylbenzene
Concen: 10.380 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion: 91 Resp: 618379

Ion	Ratio	Lower	Upper
91	100		
92	53.9	43.5	65.3
134	24.1	19.0	28.6



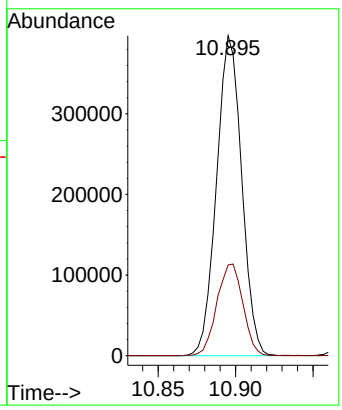


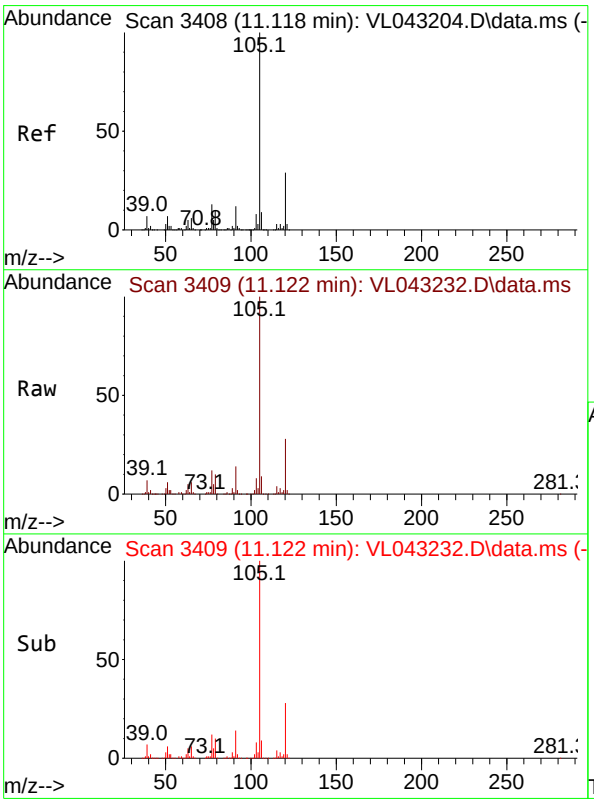
#71
2-Chlorotoluene
Concen: 10.026 ppbv
RT: 10.895 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 448104

Ion	Ratio	Lower	Upper
91	100		
126	29.6	11.7	46.7

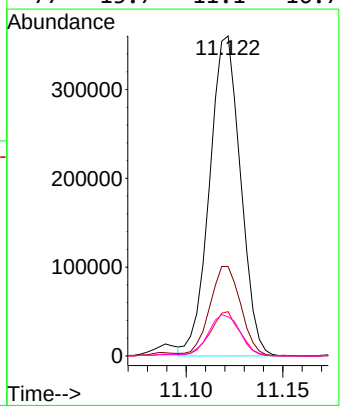


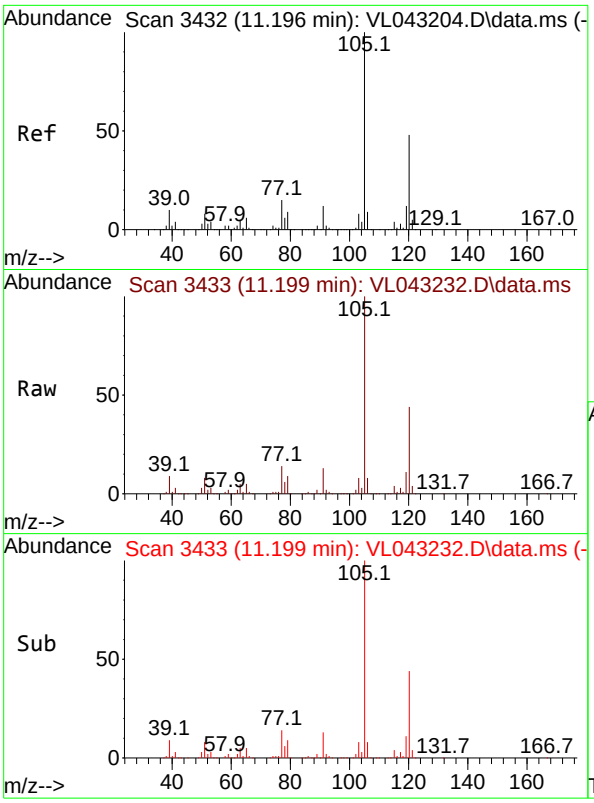


#72
4-Ethyltoluene
Concen: 10.144 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:105 Resp: 401514

Ion	Ratio	Lower	Upper
105	100		
120	29.0	23.8	35.8
91	13.6	10.3	15.5
77	13.7	11.1	16.7



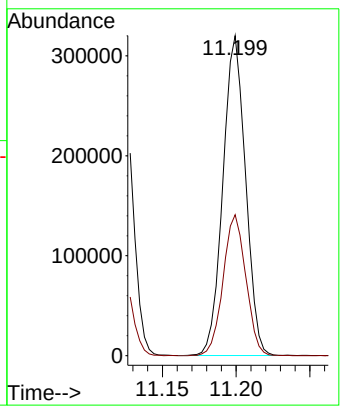


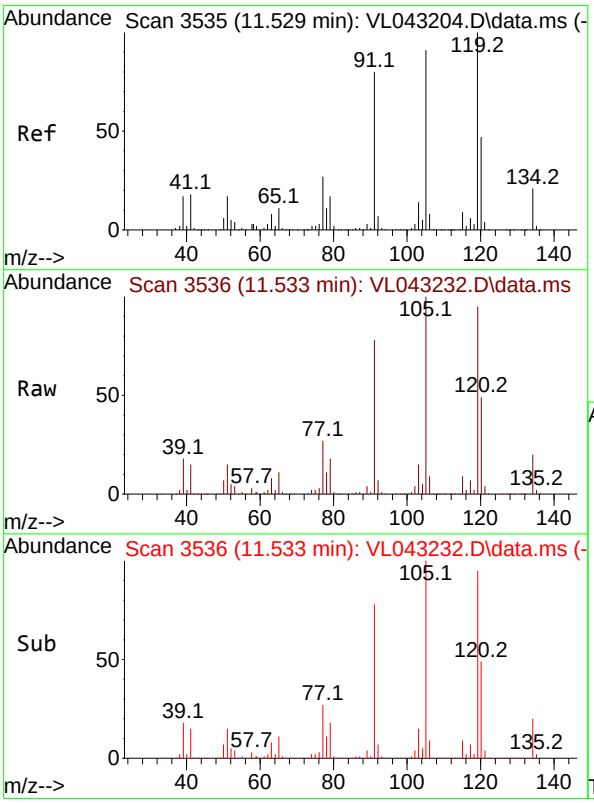
#73
1,3,5-Trimethylbenzene
Concen: 10.255 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 340623

Ion	Ratio	Lower	Upper
105	100		
120	44.1	38.6	57.8

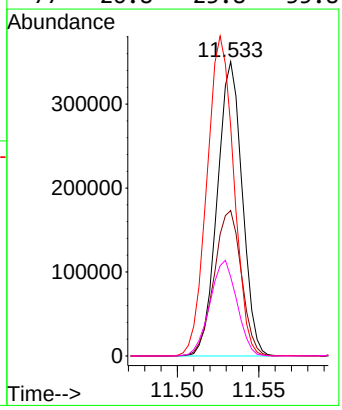


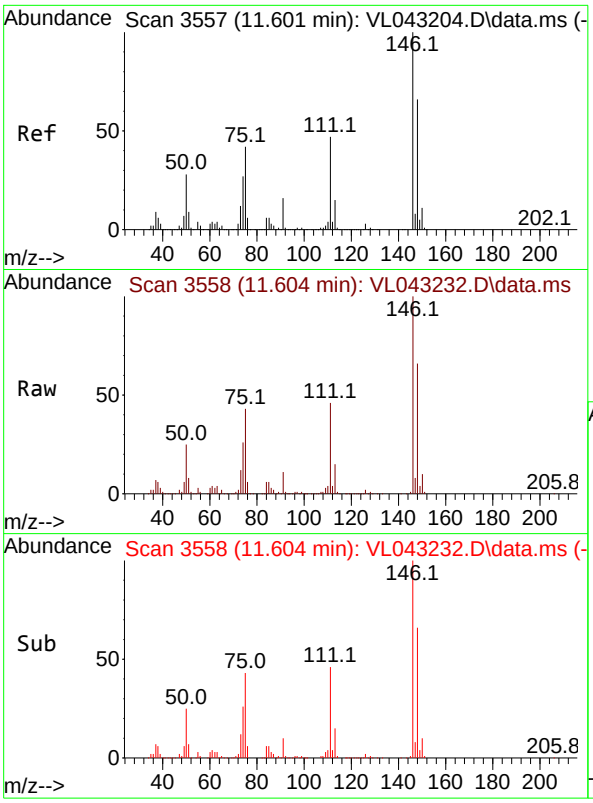


#74
1,2,4-Trimethylbenzene
Concen: 10.277 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:105 Resp: 372542

Ion	Ratio	Lower	Upper
105	100		
120	49.4	41.7	62.5
91	78.0	70.0	105.0
77	26.8	23.8	35.8



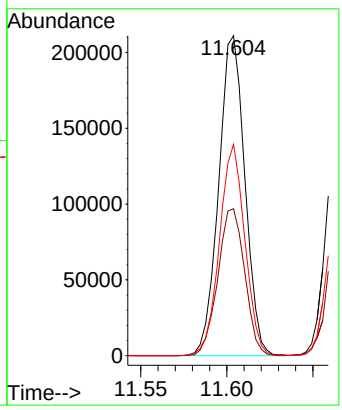


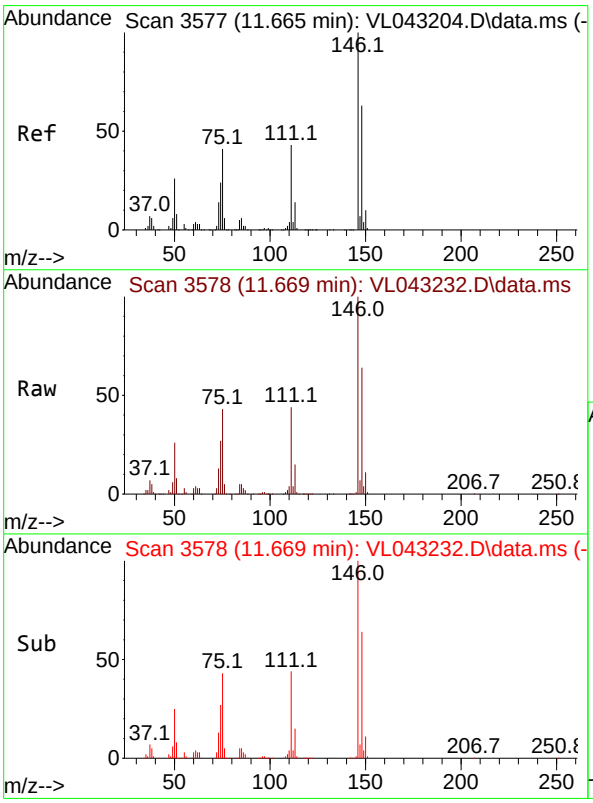
#75
1,3-Dichlorobenzene
Concen: 10.565 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 223492

Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.4	70.3
148	64.0	31.6	95.0

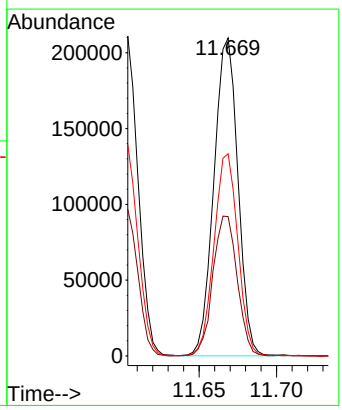


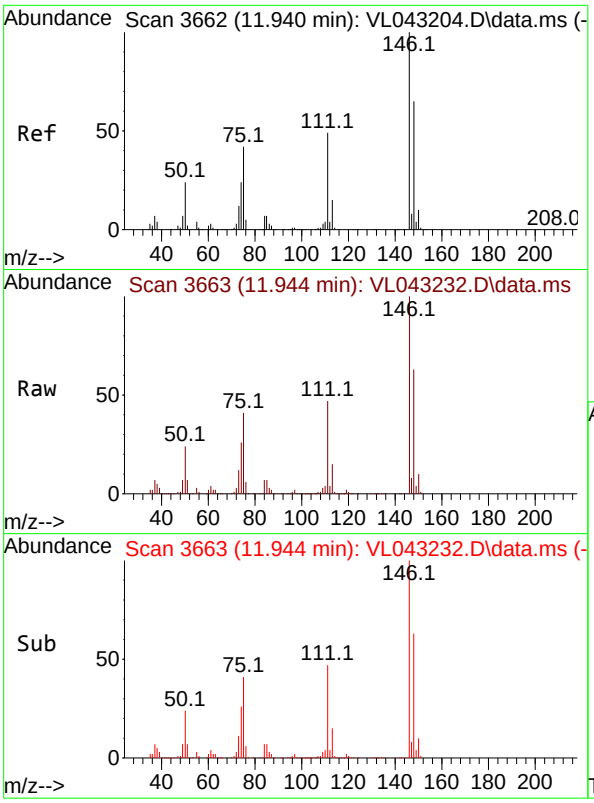


#76
1,4-Dichlorobenzene
Concen: 10.686 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:146 Resp: 226095

Ion	Ratio	Lower	Upper
146	100		
111	44.8	22.8	68.3
148	63.3	31.8	95.4



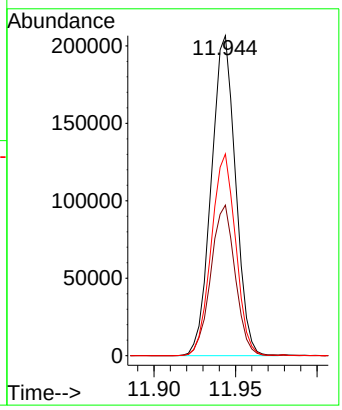


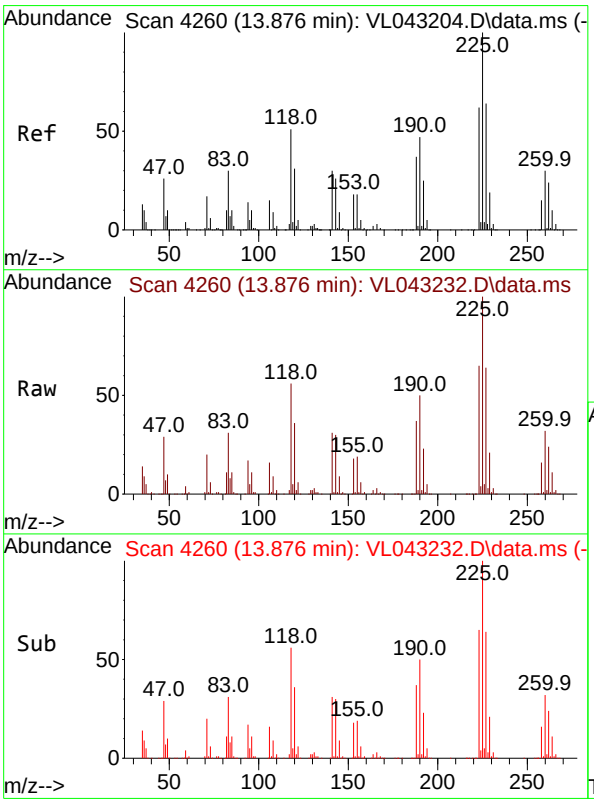
#77
1,2-Dichlorobenzene
Concen: 10.494 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 213424

Ion	Ratio	Lower	Upper
146	100		
111	47.3	24.3	73.0
148	63.6	31.6	94.7

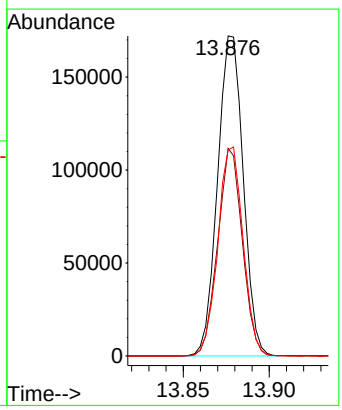


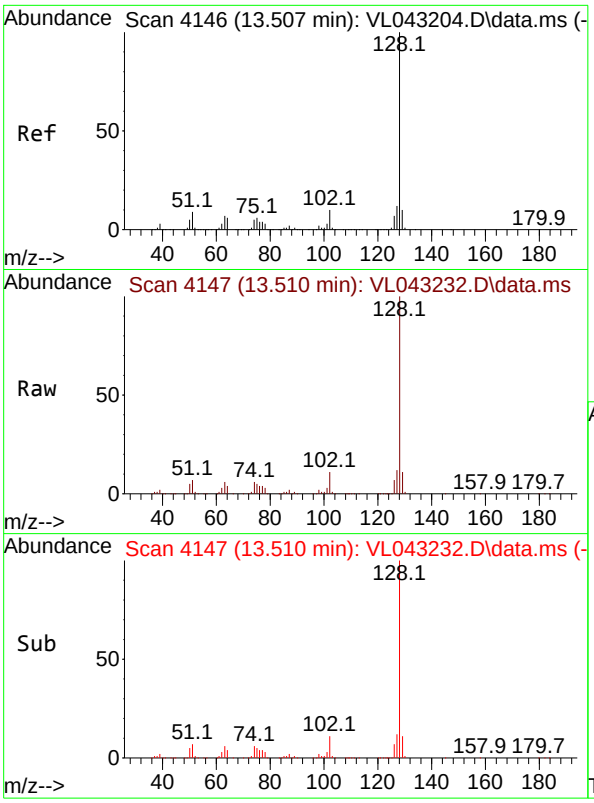


#78
Hexachloro-1,3-Butadiene
Concen: 10.531 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:225 Resp: 178749

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.2	75.4
227	64.1	51.1	76.7



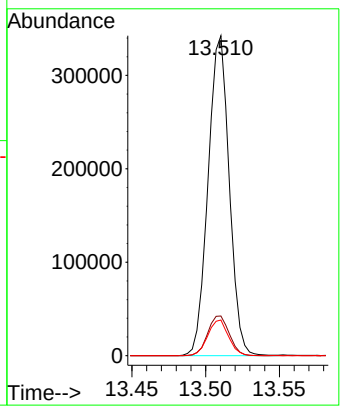


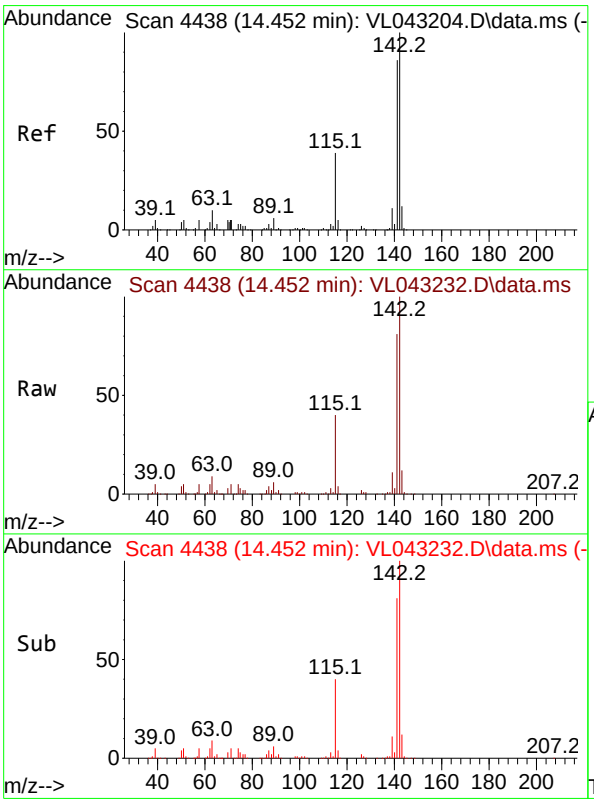
#79
Naphthalene
Concen: 10.601 ppbv
RT: 13.510 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:128 Resp: 341298

Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.9	14.9
129	11.2	8.4	12.6

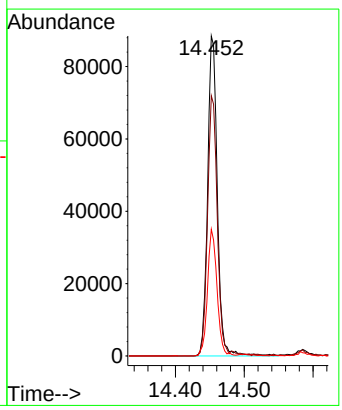


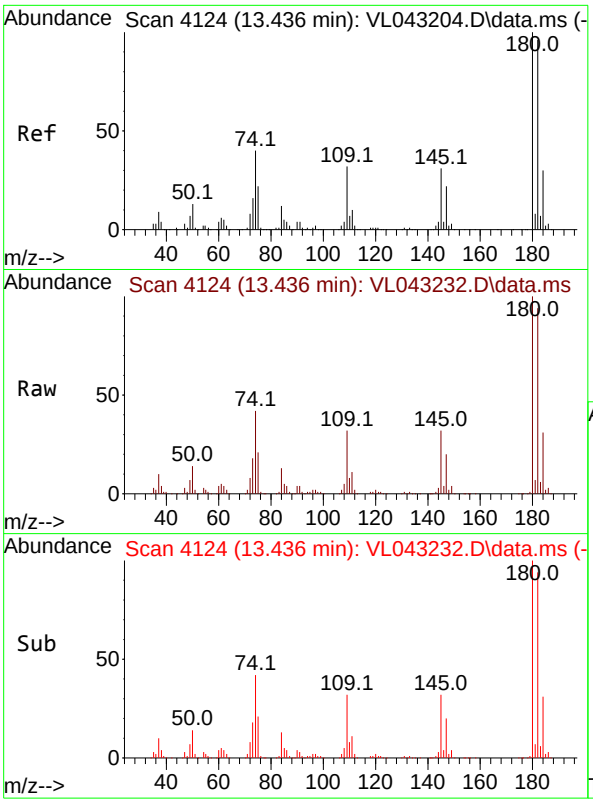


#80
Naphthalene,2-methyl-
Concen: 10.199 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Tgt Ion:142 Resp: 86195

Ion	Ratio	Lower	Upper
142	100		
141	82.6	67.1	100.7
115	39.8	31.9	47.9



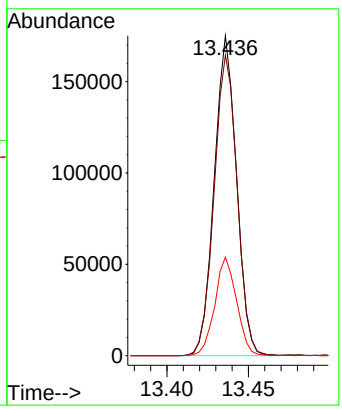


#81
1,2,4-Trichlorobenzene
Concen: 11.534 ppbv
RT: 13.436 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043232.D
Acq: 19 Nov 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:180 Resp: 166081

Ion	Ratio	Lower	Upper
180	100		
182	97.2	77.4	116.2
184	30.2	24.2	36.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043234.D
Acq On : 19 Nov 2025 11:56
Operator : SY/MD
Sample : VL1119ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Quant Time: Nov 20 00:03:05 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	103562	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	284672	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	231008	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	174465	10.303	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	159627	10.928	ppbv	97
3) Chlorodifluoromethane	1.476	51	135373	9.424	ppbv	92
4) Chloromethane	1.531	50	53712	9.835	ppbv	99
5) Vinyl Chloride	1.580	62	55310	9.261	ppbv	94
6) Bromomethane	1.667	94	30752	10.622	ppbv	97
7) Chloroethane	1.703	64	21569	9.273	ppbv	96
8) Dichlorotetrafluoroethane	1.554	85	132161	10.877	ppbv	98
9) Propene	1.771	41	57666	9.454	ppbv	98
10) Heptane	4.965	43	148958	8.205	ppbv	97
11) Trichlorofluoromethane	1.874	101	170660	12.059	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	126291	11.431	ppbv	97
13) Ethanol	1.719	45	19195	8.949	ppbv	97
14) Bromoethene	1.780	108	45857	10.827	ppbv	94
15) Acetone	1.832	43	120708	8.389	ppbv	100
16) 1,3-Butadiene	1.609	39	60112	9.371	ppbv	95
17) tert-Butyl alcohol	2.036	59	193565	10.249	ppbv	100
18) 1,1-Dichloroethene	2.033	96	53841	10.466	ppbv	91
19) Isopropyl Alcohol	1.881	45	78152	9.612	ppbv	98
20) Methylene Chloride	2.059	84	48510	11.565	ppbv	92
21) Allyl Chloride	2.094	41	88786	9.172	ppbv	90
22) trans-1,2-Dichloroethene	2.337	96	60785	10.338	ppbv	98
23) Vinyl Acetate	2.457	43	167108	9.620	ppbv	97
24) 1,1-Dichloroethane	2.405	63	117414	10.345	ppbv	98
25) Ethyl Acetate	2.826	43	271886	8.761	ppbv	99
26) Hexane	2.823	57	123157	9.052	ppbv	99
27) Carbon Disulfide	2.146	76	145985	10.510	ppbv	99
28) Methyl tert-Butyl Ether	2.434	73	69751	10.444	ppbv	97
29) Chloroform	2.842	83	215242	11.130	ppbv	100
30) Cyclohexane	3.849	84	106579	9.344	ppbv	93
31) cis-1,2-Dichloroethene	2.716	61	132120	9.770	ppbv	95
32) 1,1,1-Trichloroethane	3.363	97	225383	10.934	ppbv	98
34) 2-Butanone	2.551	43	177332	8.825	ppbv	98
35) Carbon Tetrachloride	3.755	117	240159	11.114	ppbv	97
36) Benzene	3.648	78	257003	9.427	ppbv	99
37) 1,2-Dichloroethane	3.211	62	169512	10.630	ppbv	97
38) Trichloroethene	4.538	130	106290	9.965	ppbv	93
39) 1,2-Dichloropropane	4.305	63	92079	9.228	ppbv	94
40) 1,4-Dioxane	4.564	88	22493	5.015	ppbv #	25
41) Tetrahydrofuran	3.046	42	91575	8.252	ppbv	97
42) Bromodichloromethane	4.480	83	231745	10.535	ppbv	96
43) Methyl Methacrylate	4.865	69	125100	8.645	ppbv	96
44) 2,2,4-Trimethylpentane	4.629	57	412813	8.817	ppbv	97
45) t-1,3-Dichloropropene	6.399	75	121926	9.039	ppbv	94

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043234.D
Acq On : 19 Nov 2025 11:56
Operator : SY/MD
Sample : VL1119ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Quant Time: Nov 20 00:03:05 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

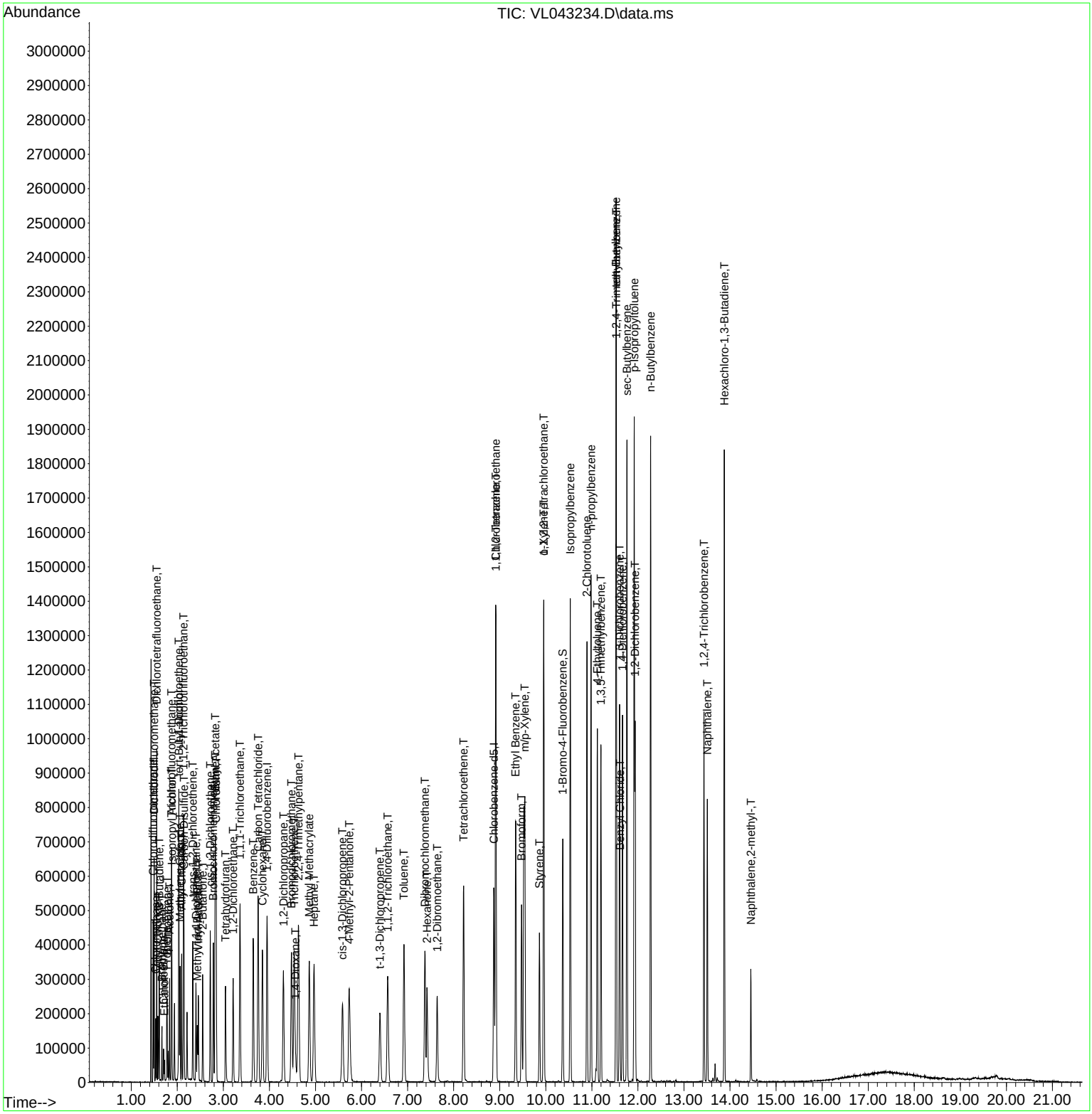
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	142340	8.987	ppbv		99
47) 1,1,2-Trichloroethane	6.567	97	103237	9.749	ppbv		96
48) Dibromochloromethane	7.377	129	196614	10.799	ppbv		98
49) Bromoform	9.474	173	178495	11.069	ppbv		100
50) 4-Methyl-2-Pentanone	5.732	43	241341	8.526	ppbv		99
51) 2-Hexanone	7.422	43	184090	8.375	ppbv	#	99
52) Tetrachloroethene	8.215	164	100528	9.913	ppbv		95
53) Toluene	6.920	91	298695	9.253	ppbv		99
54) 1,2-Dibromoethane	7.642	107	158882	10.196	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.917	131	178150	10.493	ppbv		98
57) Chlorobenzene	8.914	112	237323	10.006	ppbv		98
58) Ethyl Benzene	9.344	91	432563	9.729	ppbv		100
59) m/p-Xylene	9.545	91	312310	8.761	ppbv	#	31
60) o-Xylene	9.956	91	354511	9.955	ppbv		99
61) Styrene	9.862	104	146231	9.383	ppbv		98
62) Isopropylbenzene	10.532	105	643813	10.105	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.956	83	220953	9.751	ppbv		99
64) n-propylbenzene	10.982	120	166609	10.178	ppbv		99
65) tert-Butylbenzene	11.526	119	571982	10.053	ppbv		98
66) Benzyl Chloride	11.610	91	42746	7.403	ppbv		98
67) sec-Butylbenzene	11.762	105	793758	9.994	ppbv		99
69) p-Isopropyltoluene	11.921	119	682969	10.151	ppbv		100
70) n-Butylbenzene	12.277	91	676010	10.357	ppbv		99
71) 2-Chlorotoluene	10.895	91	490653	10.019	ppbv		99
72) 4-Ethyltoluene	11.118	105	441451	10.179	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	364625	10.019	ppbv		97
74) 1,2,4-Trimethylbenzene	11.532	105	403572	10.161	ppbv		88
75) 1,3-Dichlorobenzene	11.600	146	247440	10.676	ppbv		100
76) 1,4-Dichlorobenzene	11.665	146	247680	10.684	ppbv		99
77) 1,2-Dichlorobenzene	11.940	146	235048	10.548	ppbv		99
78) Hexachloro-1,3-Butadiene	13.876	225	196410	10.561	ppbv		100
79) Naphthalene	13.507	128	376827	10.683	ppbv		97
80) Naphthalene,2-methyl-	14.452	142	91146	9.844	ppbv		98
81) 1,2,4-Trichlorobenzene	13.435	180	183247	11.616	ppbv		99

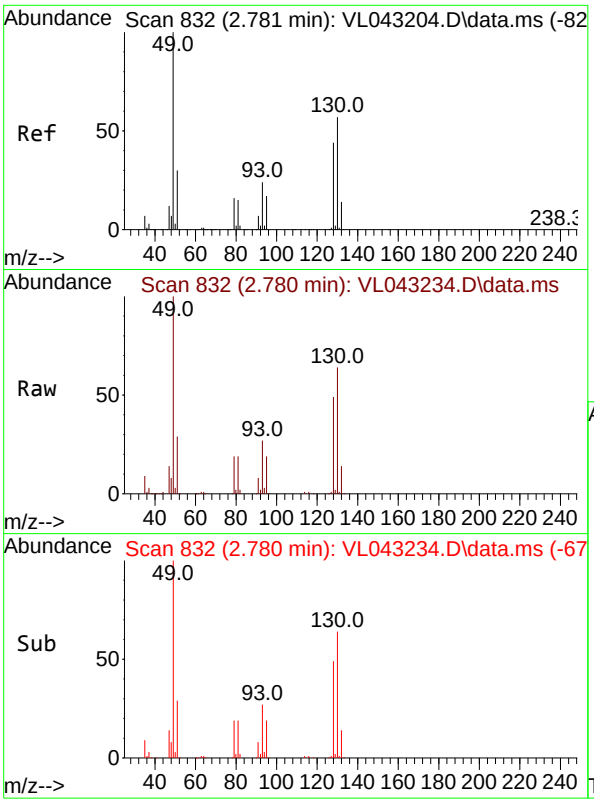
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043234.D
Acq On : 19 Nov 2025 11:56
Operator : SY/MD
Sample : VL1119ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Quant Time: Nov 20 00:03:05 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



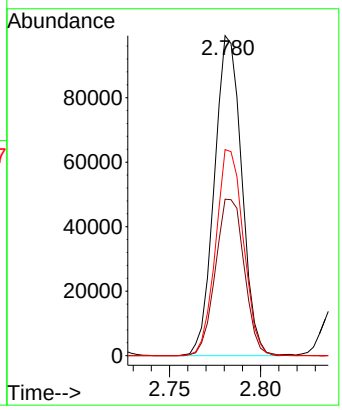


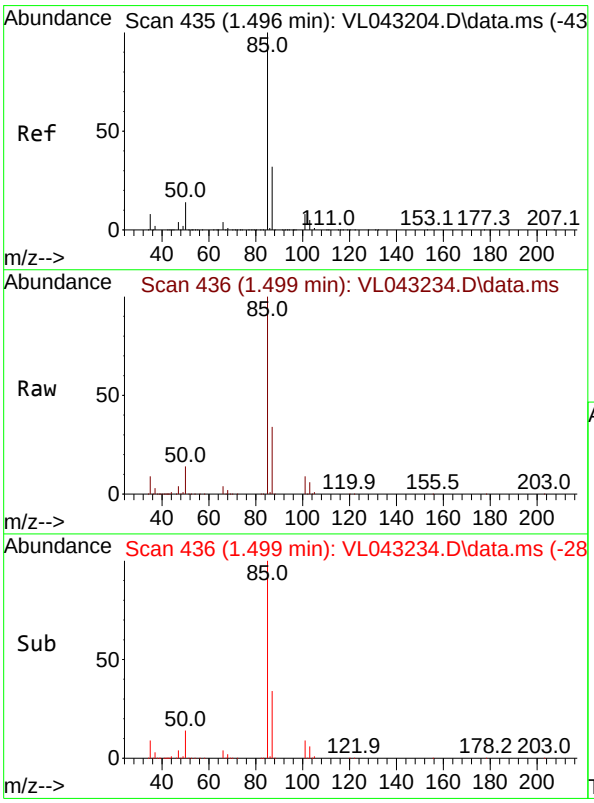
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.001 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 49 Resp: 103562

Ion	Ratio	Lower	Upper
49	100		
128	51.6	23.0	69.0
130	65.4	29.9	89.7

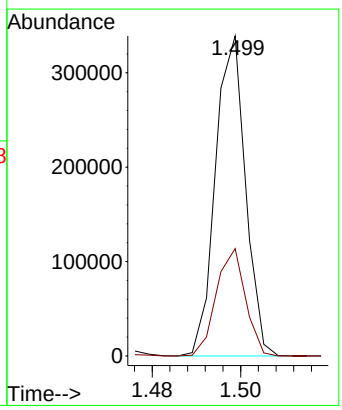


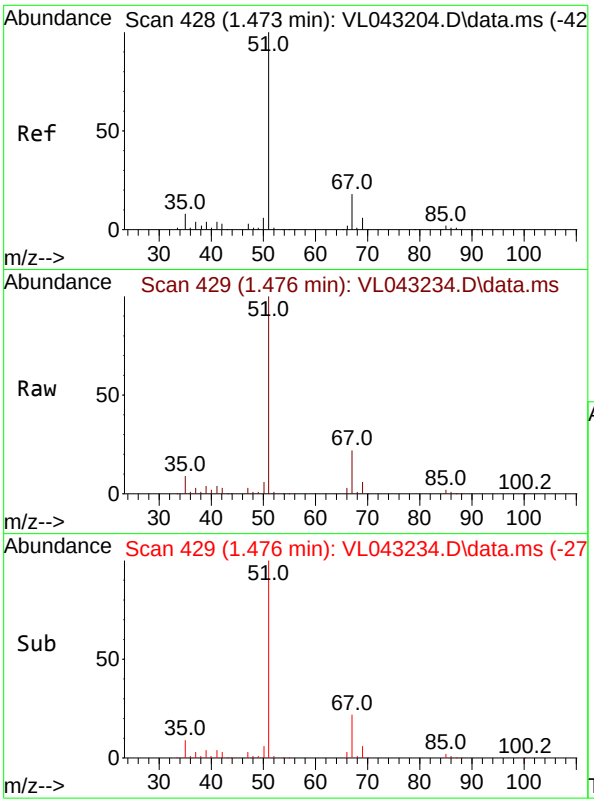


#2
Dichlorodifluoromethane
Concen: 10.928 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 85 Resp: 159627

Ion	Ratio	Lower	Upper
85	100		
87	33.6	25.4	38.2



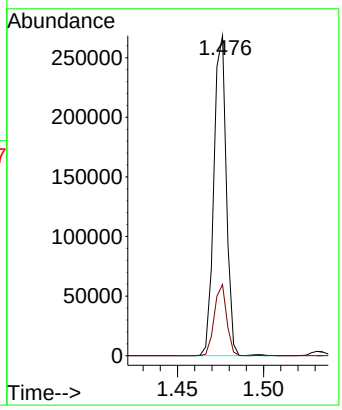


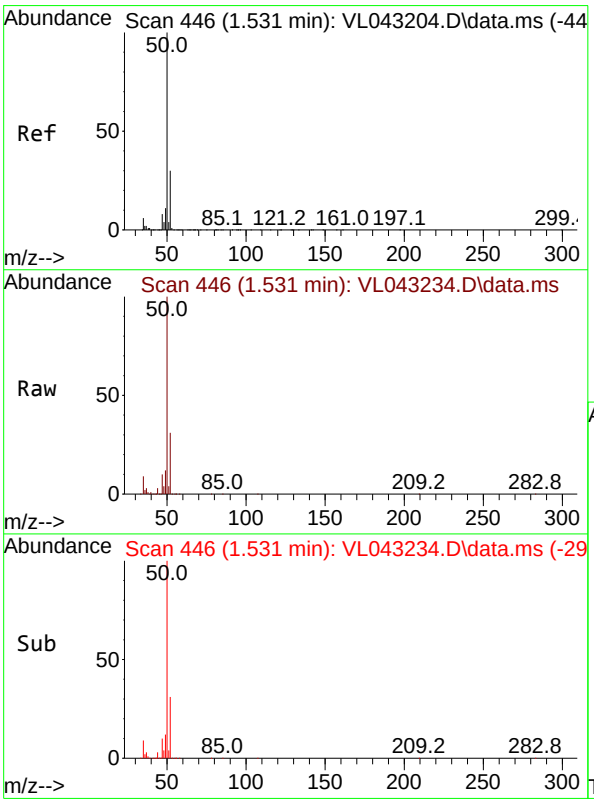
#3
Chlorodifluoromethane
Concen: 9.424 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 51 Resp: 135373

Ion	Ratio	Lower	Upper
51	100		
67	22.2	14.9	22.3

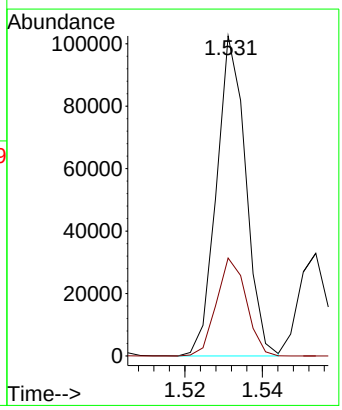


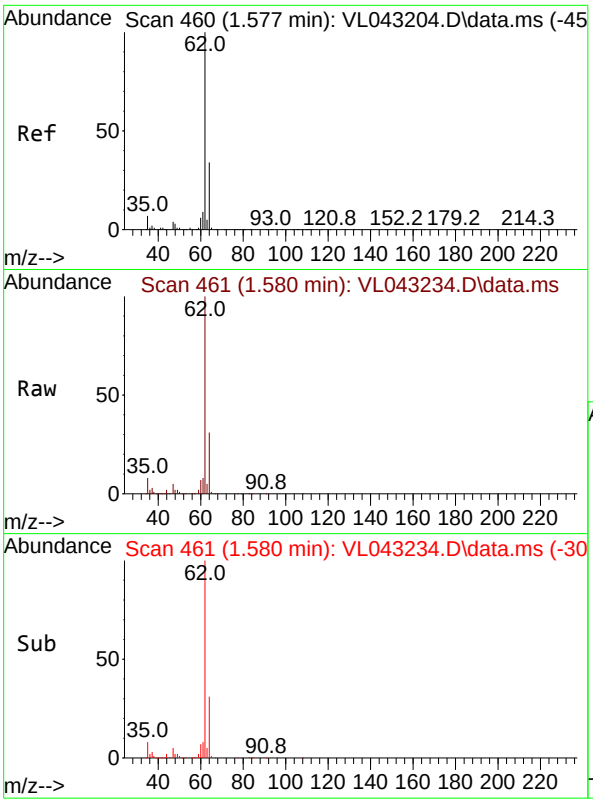


#4
Chloromethane
Concen: 9.835 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 50 Resp: 53712

Ion	Ratio	Lower	Upper
50	100		
52	30.6	24.1	36.1



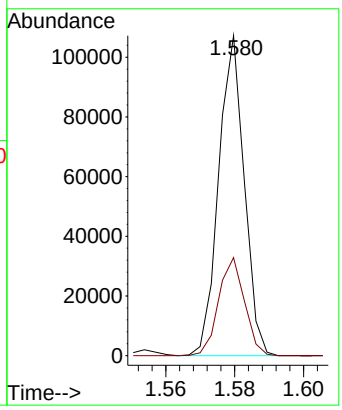


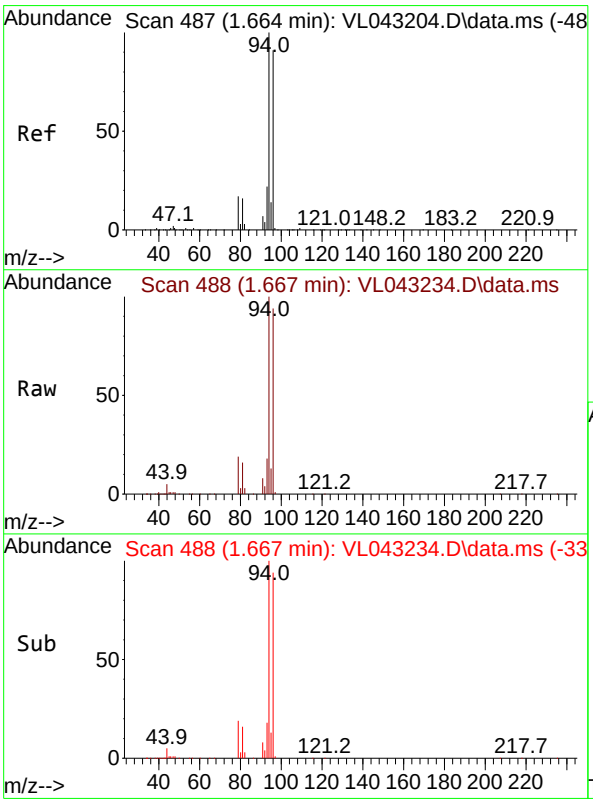
#5
Vinyl Chloride
Concen: 9.261 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 62 Resp: 55310

Ion	Ratio	Lower	Upper
62	100		
64	30.6	27.3	40.9

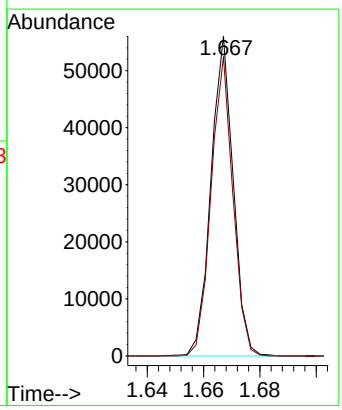


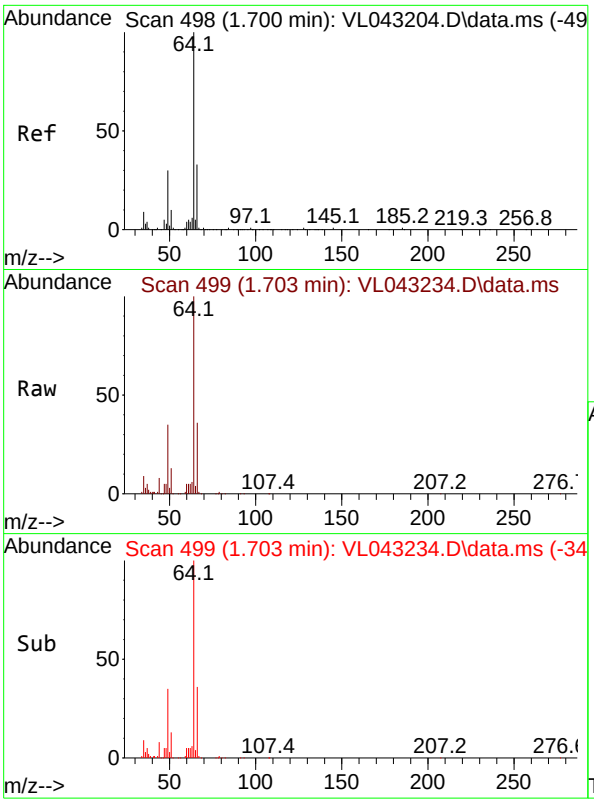


#6
Bromomethane
Concen: 10.622 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 94 Resp: 30752

Ion	Ratio	Lower	Upper
94	100		
96	93.5	72.9	109.3



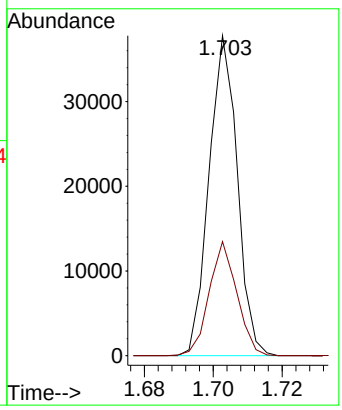


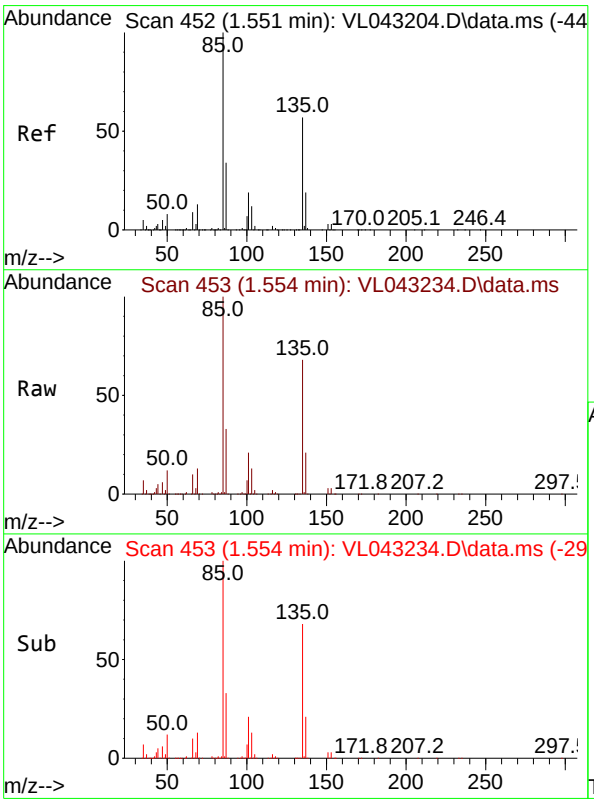
#7
Chloroethane
Concen: 9.273 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 64 Resp: 21569

Ion	Ratio	Lower	Upper
64	100		
66	35.6	26.8	40.2

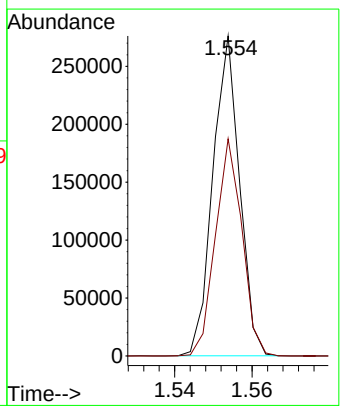


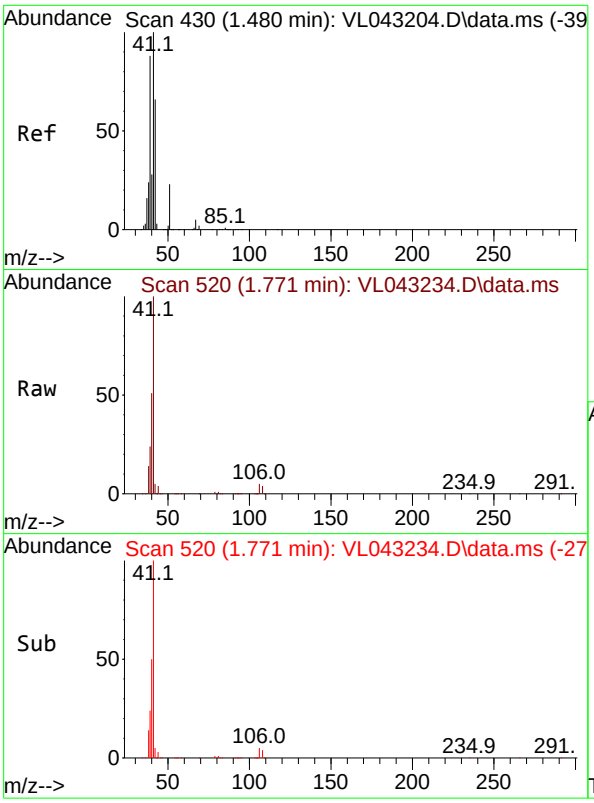


#8
Dichlorotetrafluoroethane
Concen: 10.877 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 85 Resp: 132161

Ion	Ratio	Lower	Upper
85	100		
135	67.7	52.6	79.0



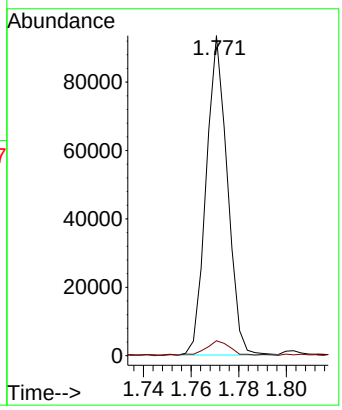


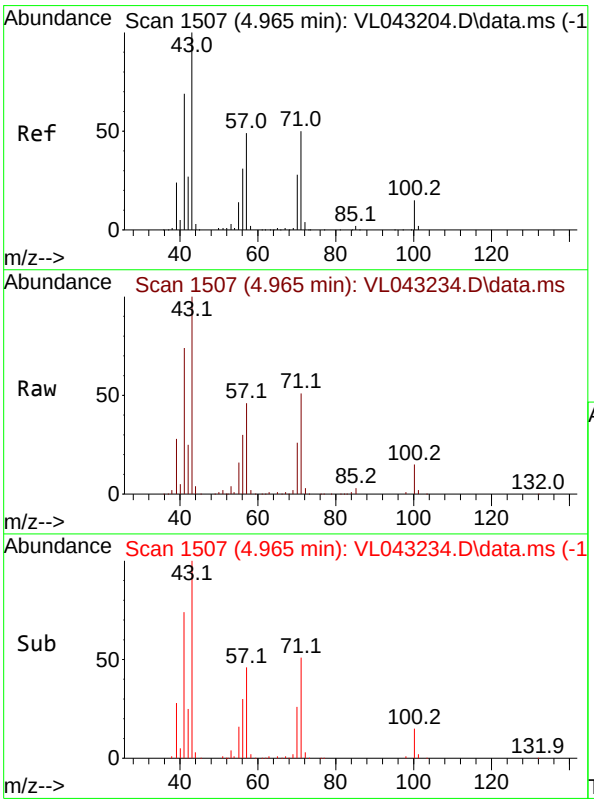
#9
Propene
Concen: 9.454 ppbv
RT: 1.771 min Scan# 5
Delta R.T. 0.291 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 41 Resp: 57666

Ion	Ratio	Lower	Upper
41	100		
42	5.3	3.7	5.5

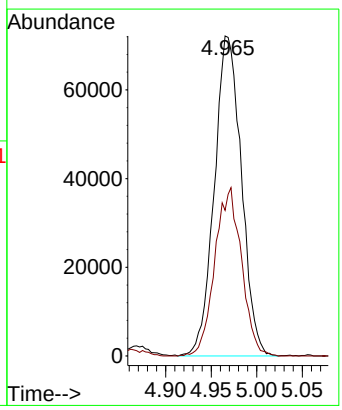


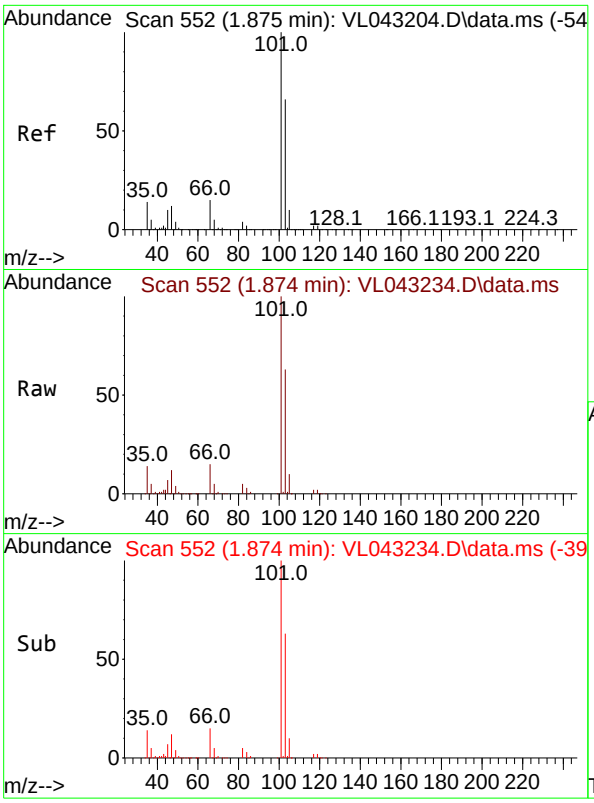


#10
Heptane
Concen: 8.205 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 43 Resp: 148958

Ion	Ratio	Lower	Upper
43	100		
57	51.9	39.7	59.5



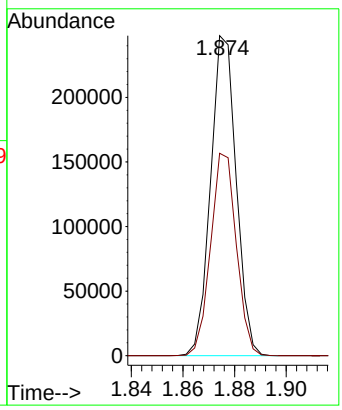


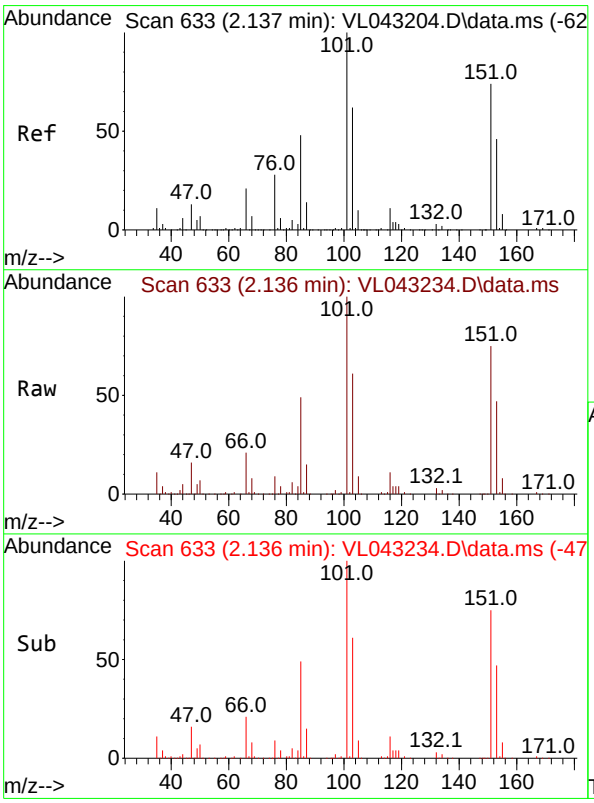
#11
Trichlorofluoromethane
Concen: 12.059 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:101 Resp: 170660

Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.6	79.0

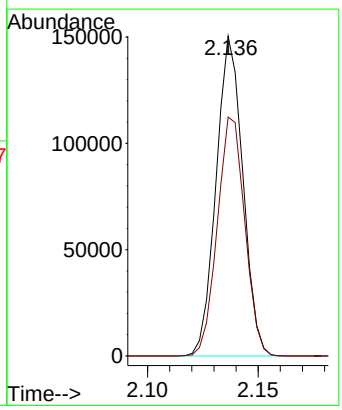


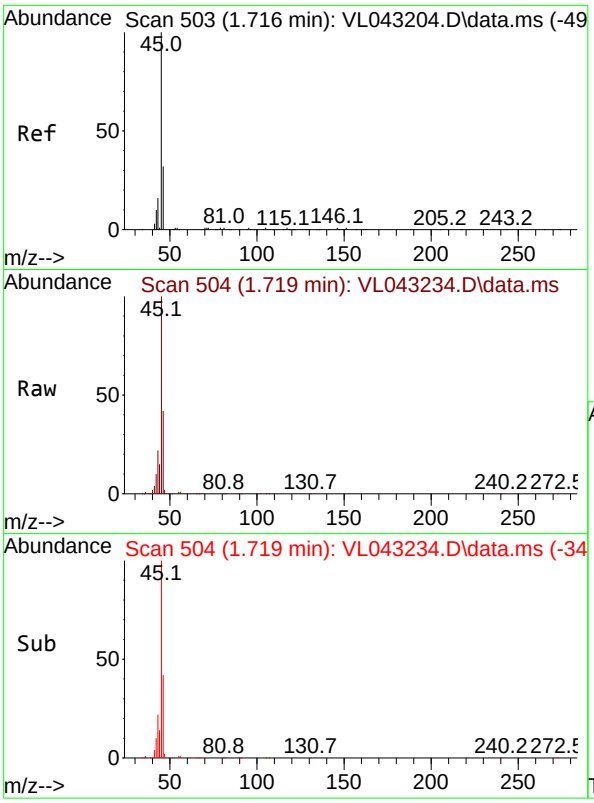


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.431 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:101 Resp: 126291

Ion	Ratio	Lower	Upper
101	100		
151	76.8	59.2	88.8



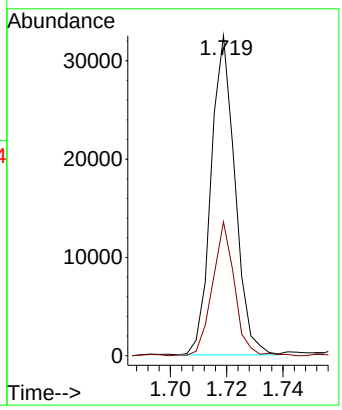


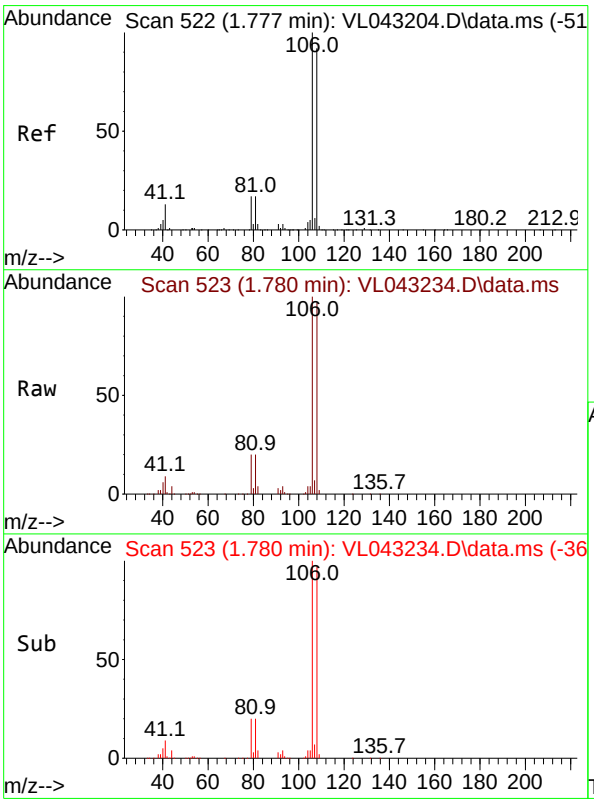
#13
Ethanol
Concen: 8.949 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 45 Resp: 19195

Ion	Ratio	Lower	Upper
45	100		
46	39.1	15.0	59.8

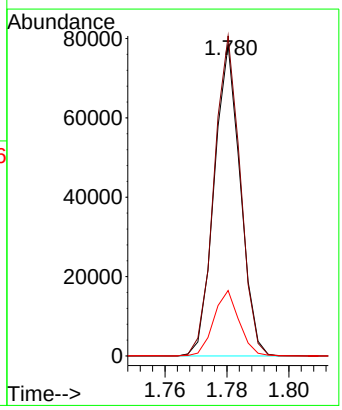


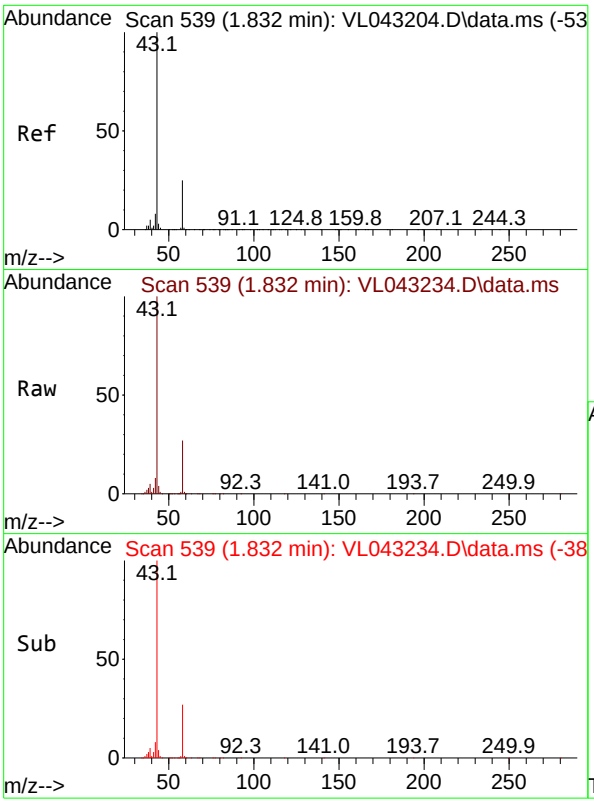


#14
Bromoethene
Concen: 10.827 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:108 Resp: 45857

Ion	Ratio	Lower	Upper
108	100		
106	103.0	88.9	133.3
79	20.7	16.5	24.7



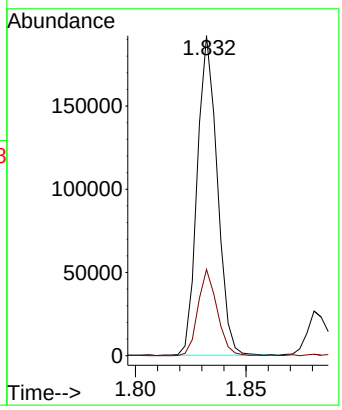


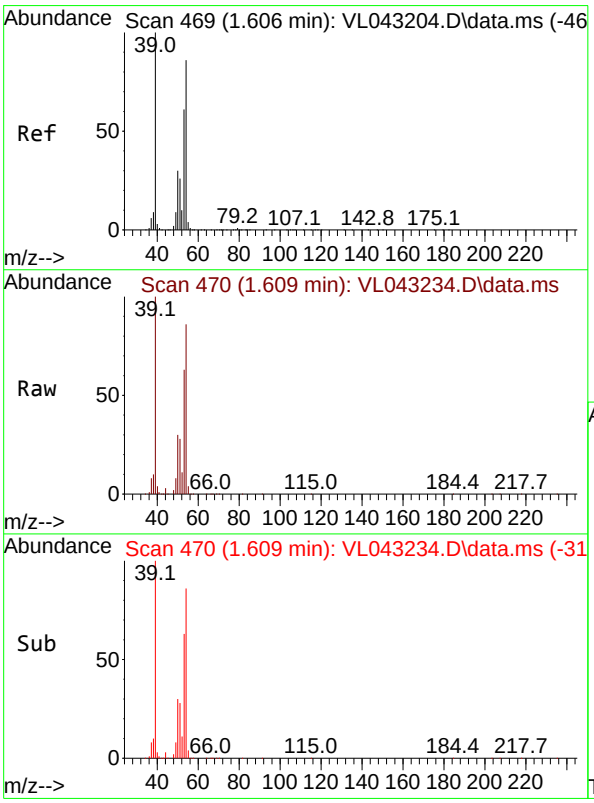
#15
Acetone
Concen: 8.389 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 43 Resp: 120708

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1

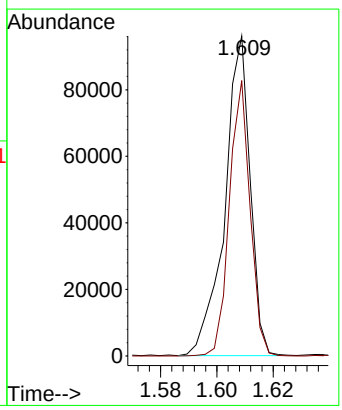


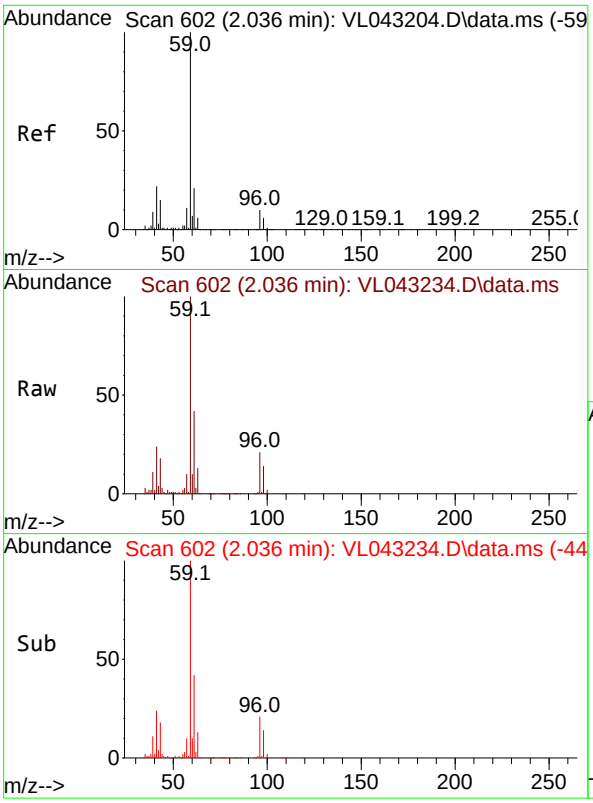


#16
1,3-Butadiene
Concen: 9.371 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 39 Resp: 60112

Ion	Ratio	Lower	Upper
39	100		
54	70.2	59.4	89.2



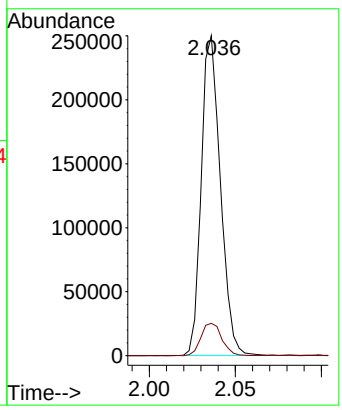


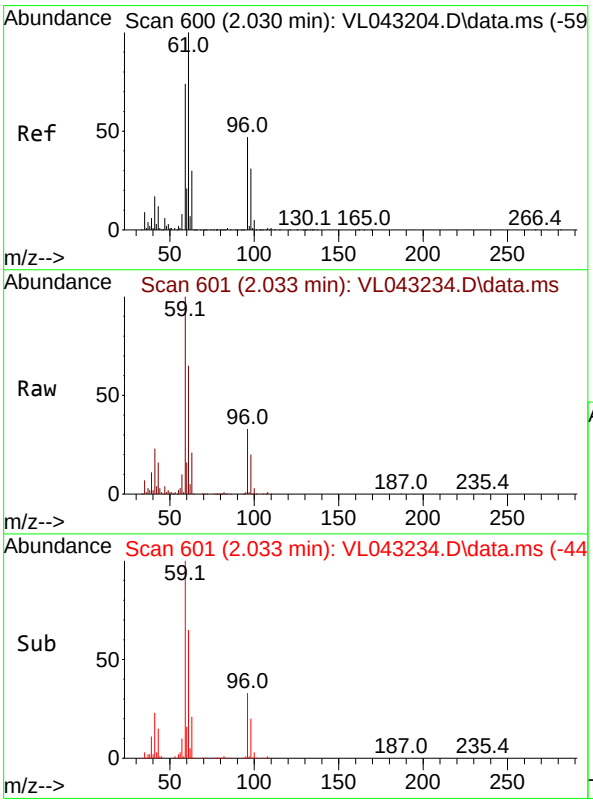
#17
tert-Butyl alcohol
Concen: 10.249 ppbv
RT: 2.036 min Scan# 6(
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 59 Resp: 193565

Ion	Ratio	Lower	Upper
59	100		
57	11.4	9.0	13.4

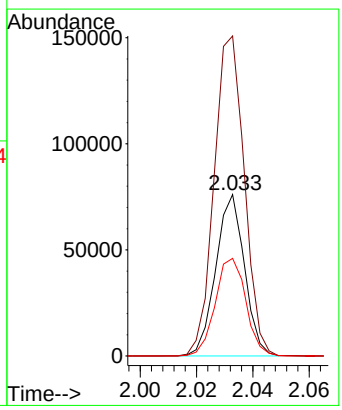


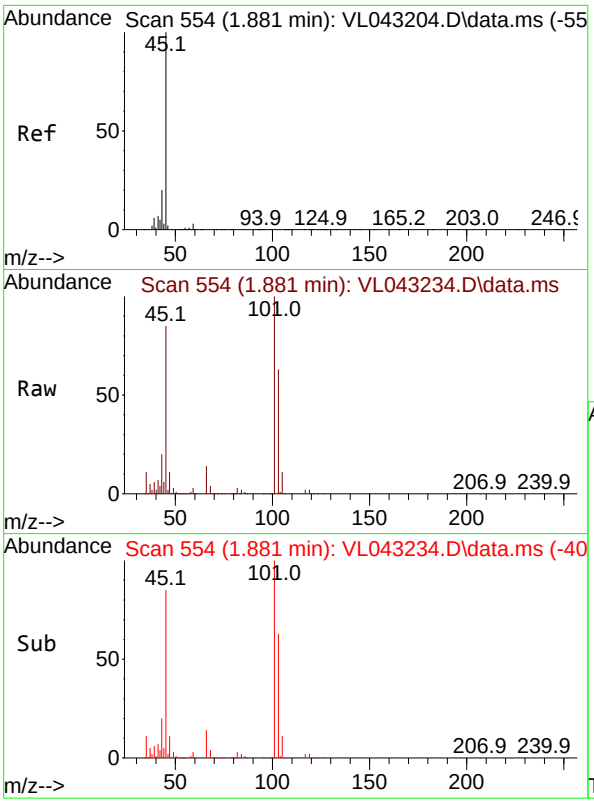


#18
1,1-Dichloroethene
Concen: 10.466 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 96 Resp: 53841

Ion	Ratio	Lower	Upper
96	100		
61	198.1	170.6	255.8
98	60.5	52.2	78.4



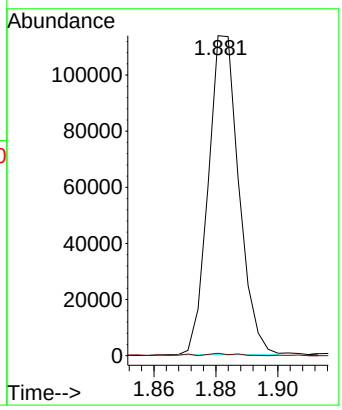


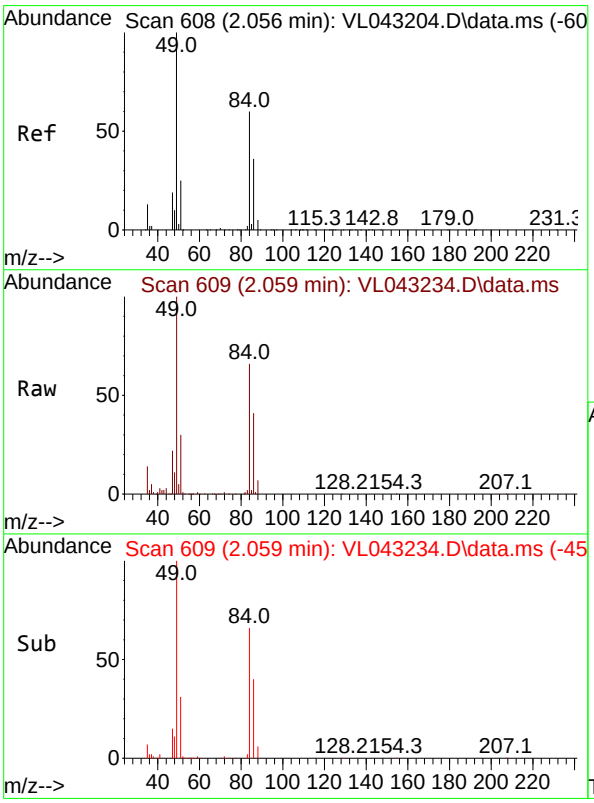
#19
Isopropyl Alcohol
Concen: 9.612 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 45 Resp: 78152

Ion	Ratio	Lower	Upper
45	100		
58	40.1	31.3	46.9

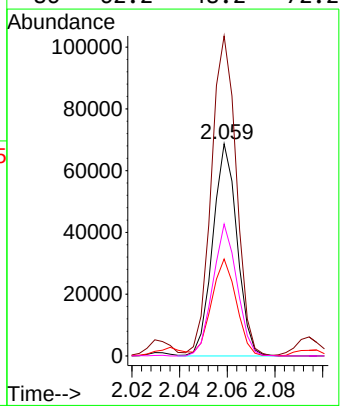


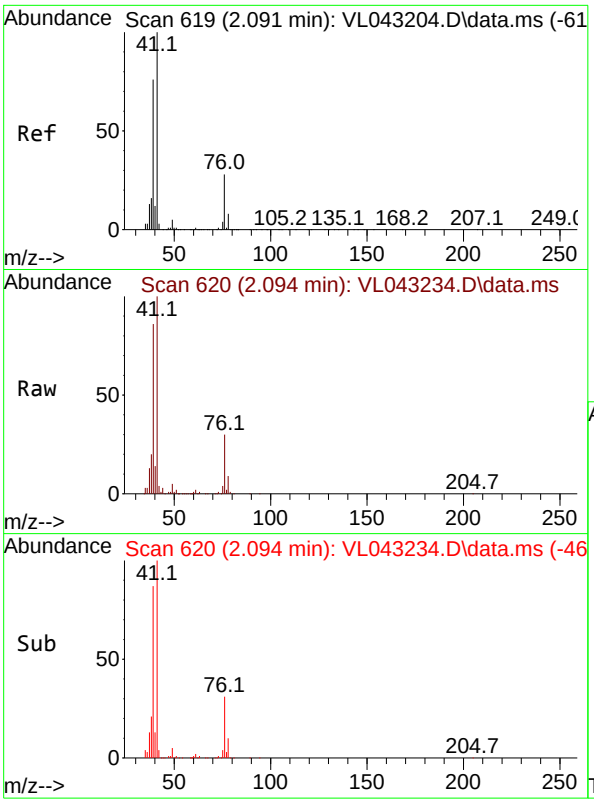


#20
Methylene Chloride
Concen: 11.565 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 84 Resp: 48510

Ion	Ratio	Lower	Upper
84	100		
49	150.3	132.9	199.3
51	45.5	34.8	52.2
86	62.2	48.2	72.2



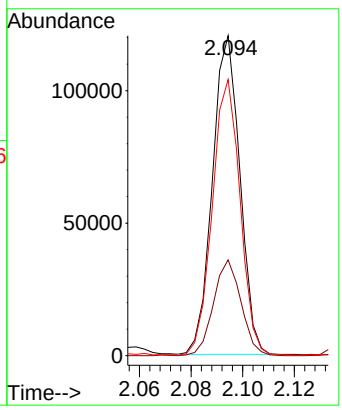


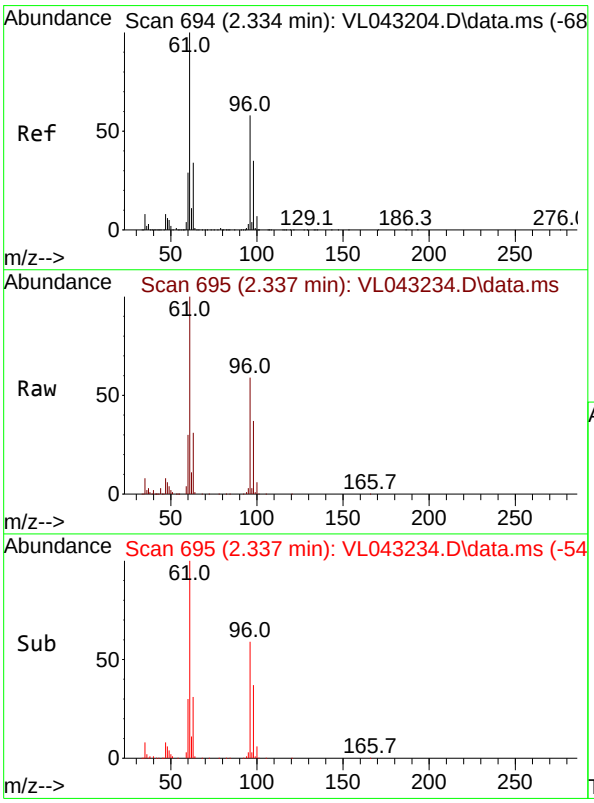
#21
Allyl Chloride
Concen: 9.172 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 41 Resp: 88786

Ion	Ratio	Lower	Upper
41	100		
76	30.3	22.1	33.1
39	86.8	61.0	91.4

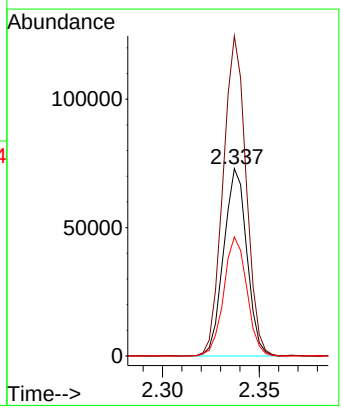


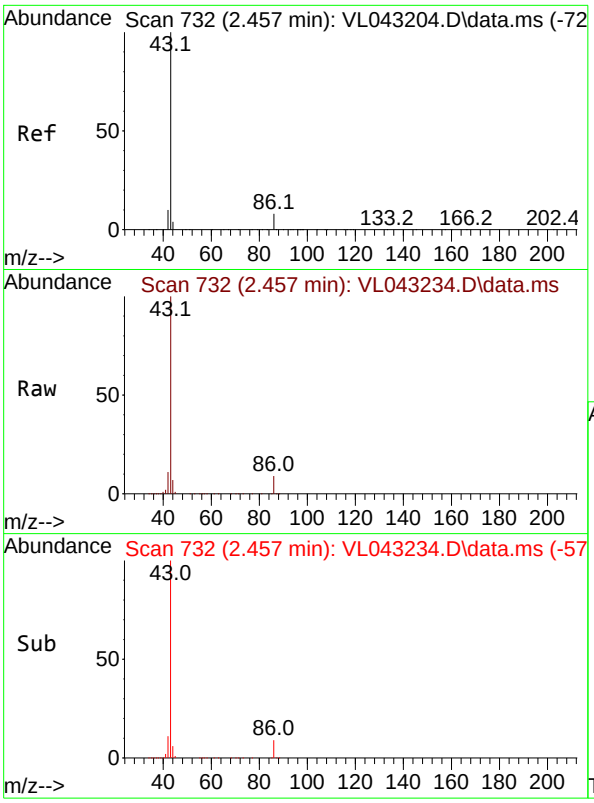


#22
trans-1,2-Dichloroethene
Concen: 10.338 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 96 Resp: 60785

Ion	Ratio	Lower	Upper
96	100		
61	170.8	139.0	208.6
98	63.5	49.4	74.2



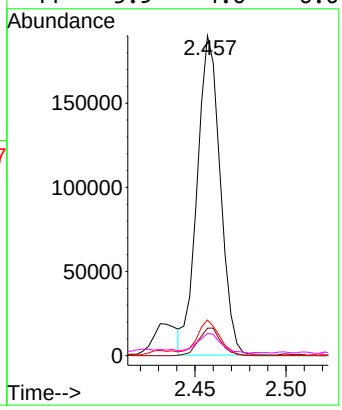


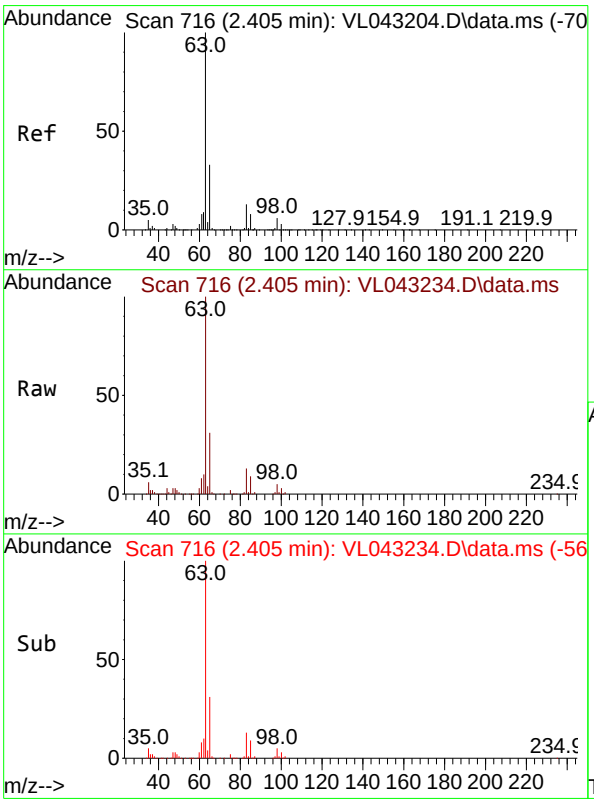
#23
Vinyl Acetate
Concen: 9.620 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 43 Resp: 167108

Ion	Ratio	Lower	Upper
43	100		
86	8.6	6.2	9.2
42	11.0	8.0	12.0
44	5.9	4.0	6.0

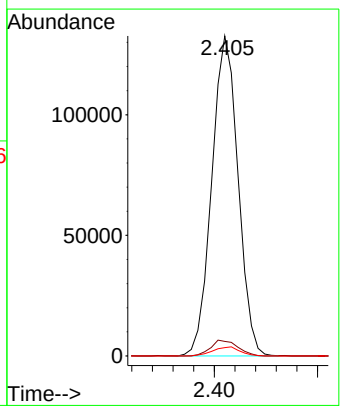


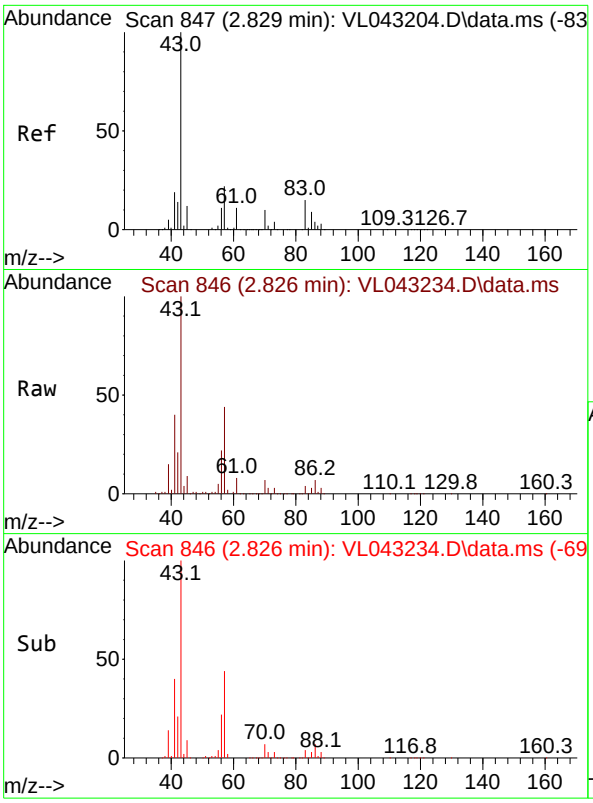


#24
1,1-Dichloroethane
Concen: 10.345 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 63 Resp: 117414

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.8	8.4
100	2.6	1.3	3.9



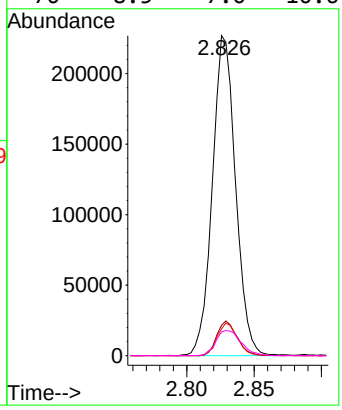


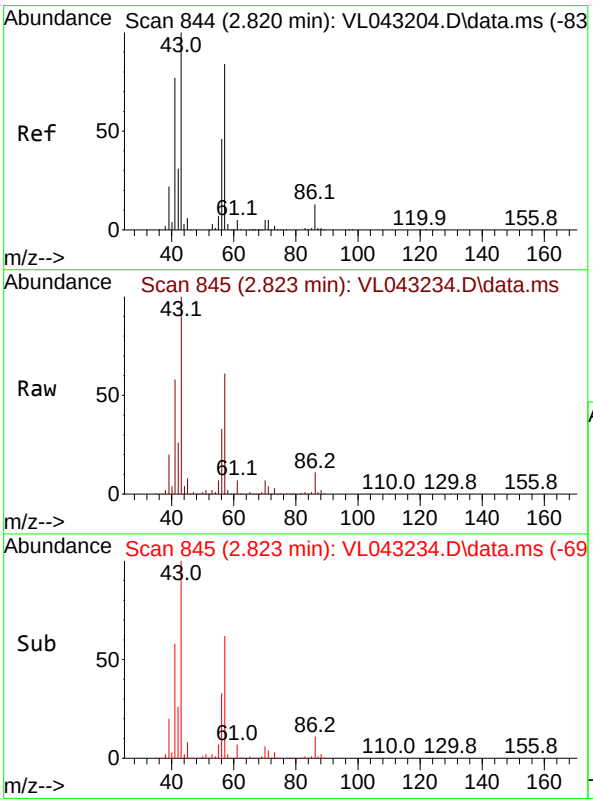
#25
Ethyl Acetate
Concen: 8.761 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.004 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 43 Resp: 271886

Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	9.0	7.0	10.4
70	8.5	7.0	10.6

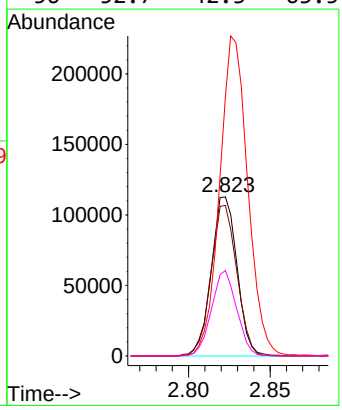


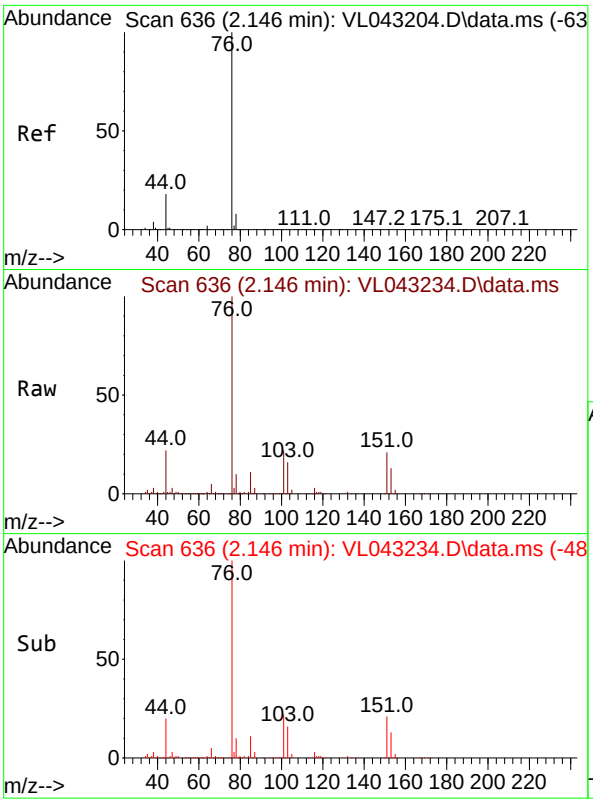


#26
Hexane
Concen: 9.052 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 57 Resp: 123157

Ion	Ratio	Lower	Upper
57	100		
41	96.4	74.6	111.8
43	222.2	179.0	268.4
56	52.7	42.3	63.5



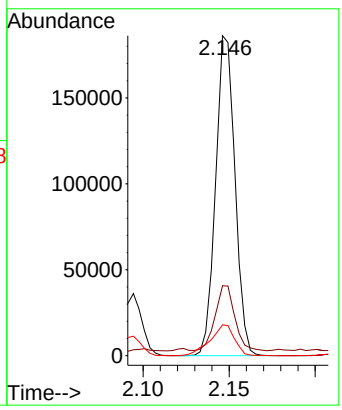


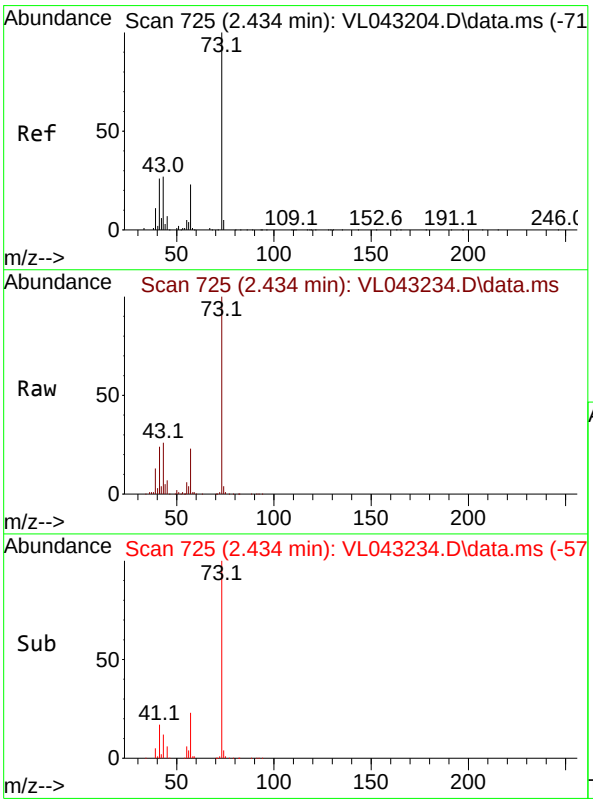
#27
Carbon Disulfide
Concen: 10.510 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 76 Resp: 145985

Ion	Ratio	Lower	Upper
76	100		
44	20.3	16.1	24.1
78	12.2	9.6	14.4

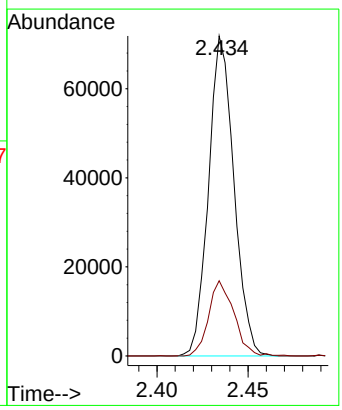


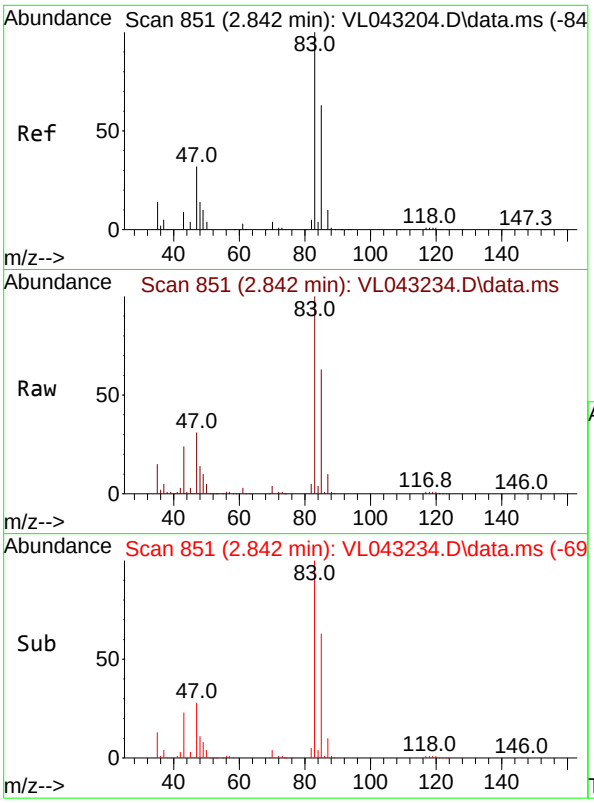


#28
Methyl tert-Butyl Ether
Concen: 10.444 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 73 Resp: 69751

Ion	Ratio	Lower	Upper
73	100		
57	23.5	19.8	29.8



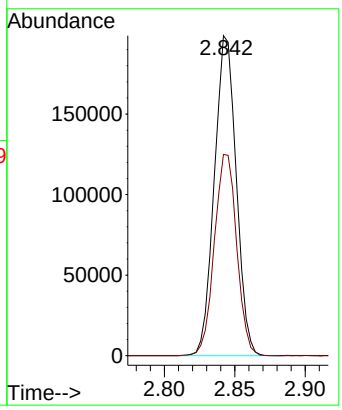


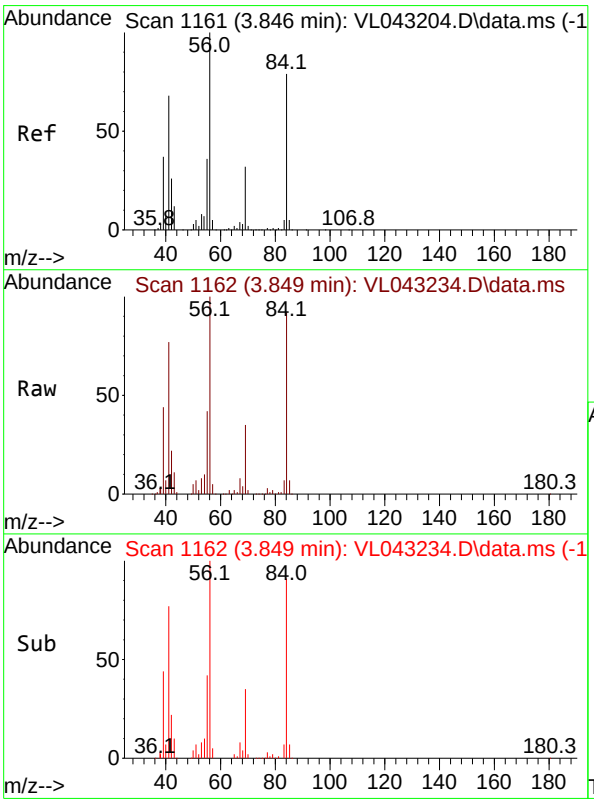
#29
Chloroform
Concen: 11.130 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 83 Resp: 215242

Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.5	75.7

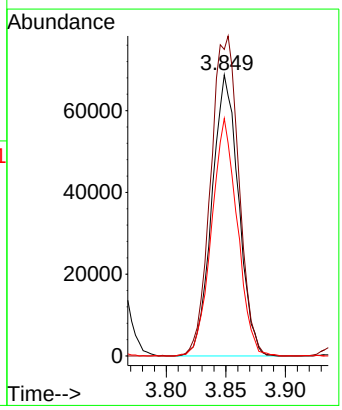


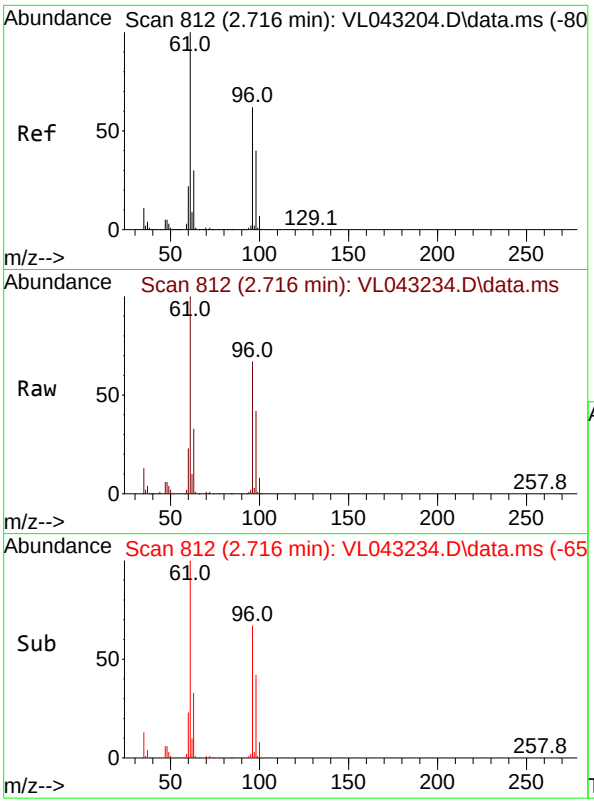


#30
Cyclohexane
Concen: 9.344 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 84 Resp: 106579

Ion	Ratio	Lower	Upper
84	100		
56	120.8	104.7	157.1
41	82.0	69.0	103.6



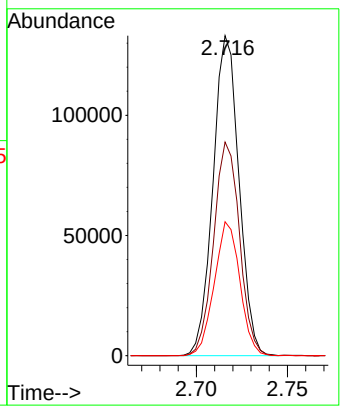


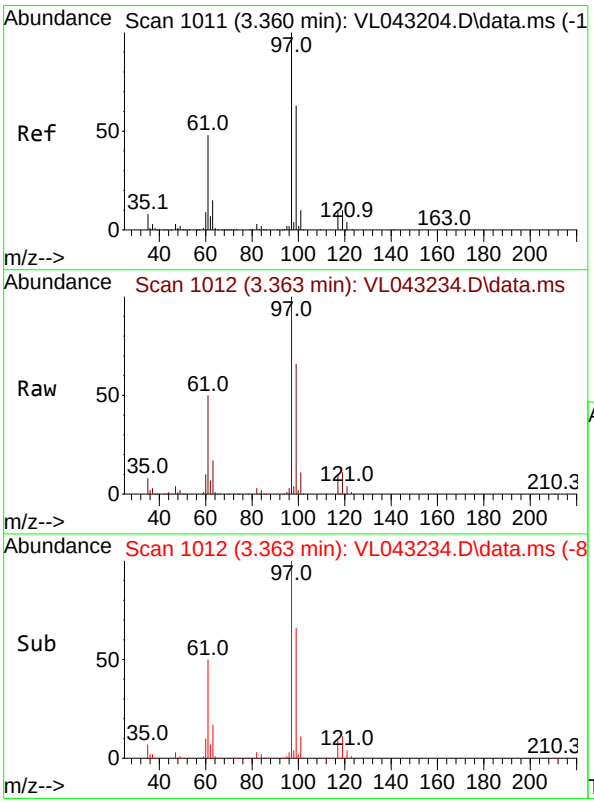
#31
cis-1,2-Dichloroethene
Concen: 9.770 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 61 Resp: 132120

Ion	Ratio	Lower	Upper
61	100		
96	66.8	49.3	73.9
98	41.9	32.1	48.1

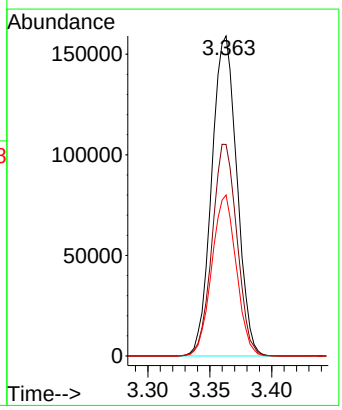


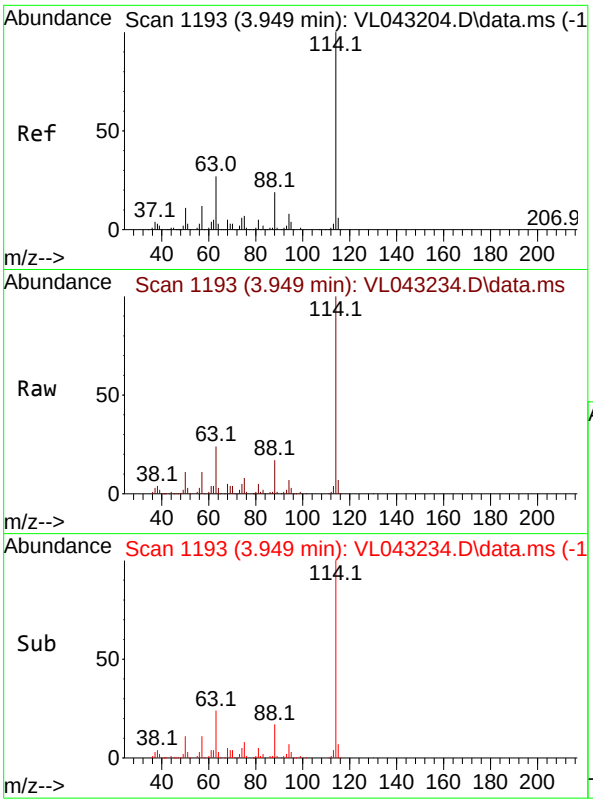


#32
1,1,1-Trichloroethane
Concen: 10.934 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 97 Resp: 225383

Ion	Ratio	Lower	Upper
97	100		
99	65.3	50.3	75.5
61	49.0	38.9	58.3



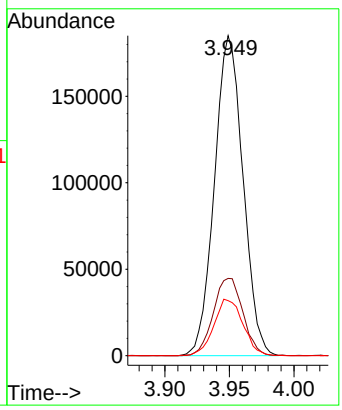


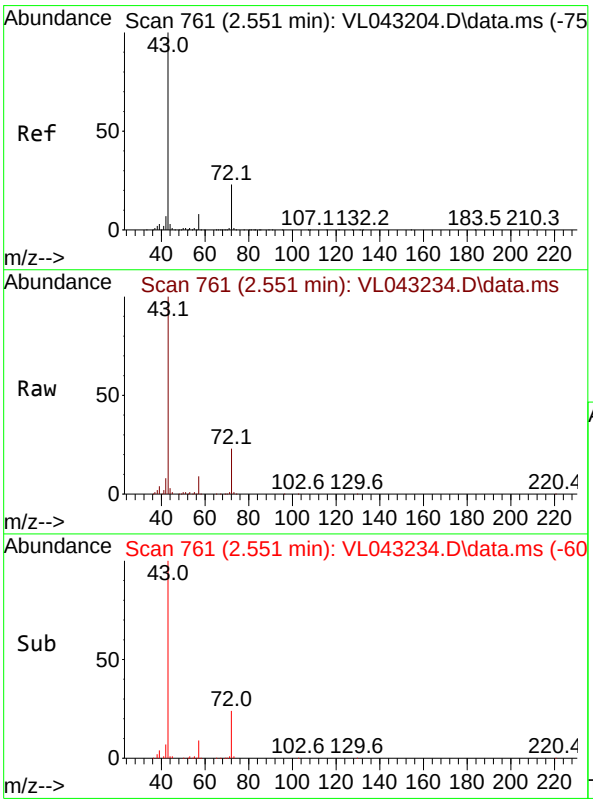
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:114 Resp: 284672

Ion	Ratio	Lower	Upper
114	100		
63	25.0	21.0	31.6
88	18.0	14.9	22.3

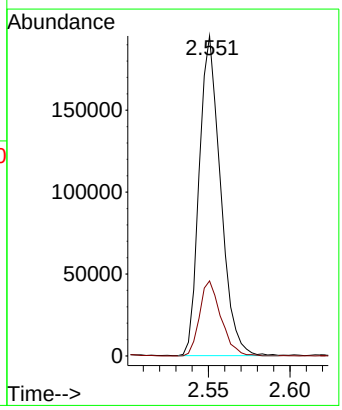


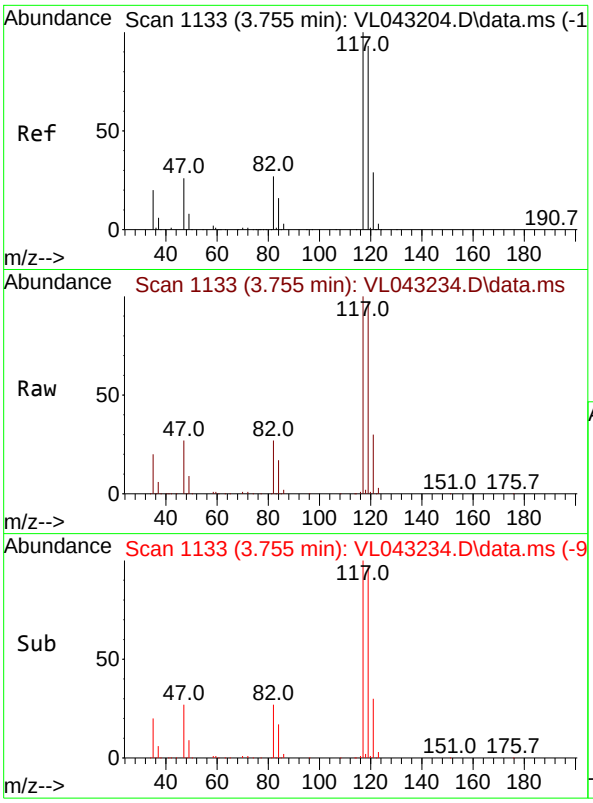


#34
2-Butanone
Concen: 8.825 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 43 Resp: 177332

Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.1	27.1



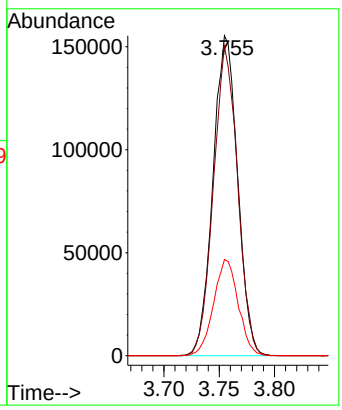


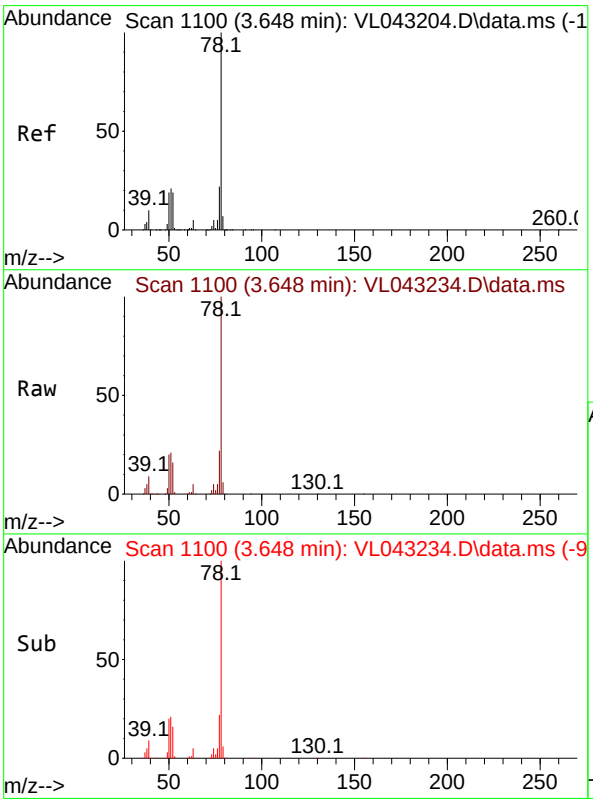
#35
Carbon Tetrachloride
Concen: 11.114 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:117 Resp: 240159

Ion	Ratio	Lower	Upper
117	100		
119	96.7	74.6	112.0
121	30.1	23.2	34.8

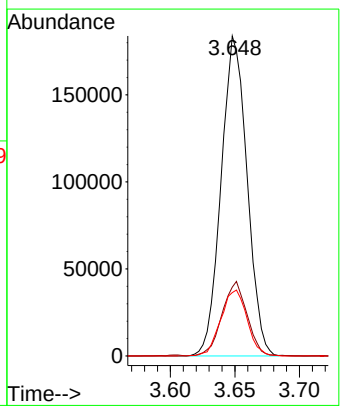


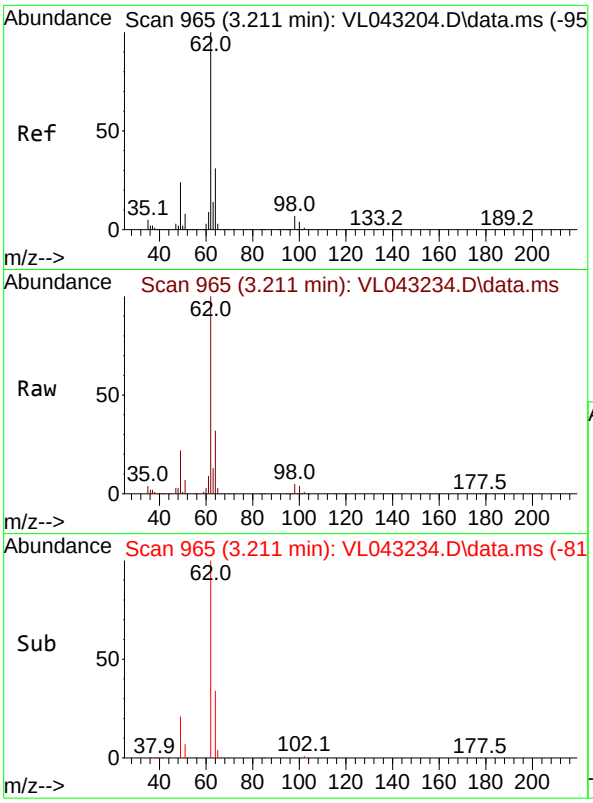


#36
Benzene
Concen: 9.427 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 78 Resp: 257003

Ion	Ratio	Lower	Upper
78	100		
77	21.2	17.5	26.3
50	19.8	15.5	23.3



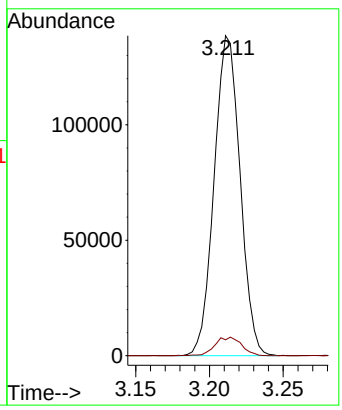


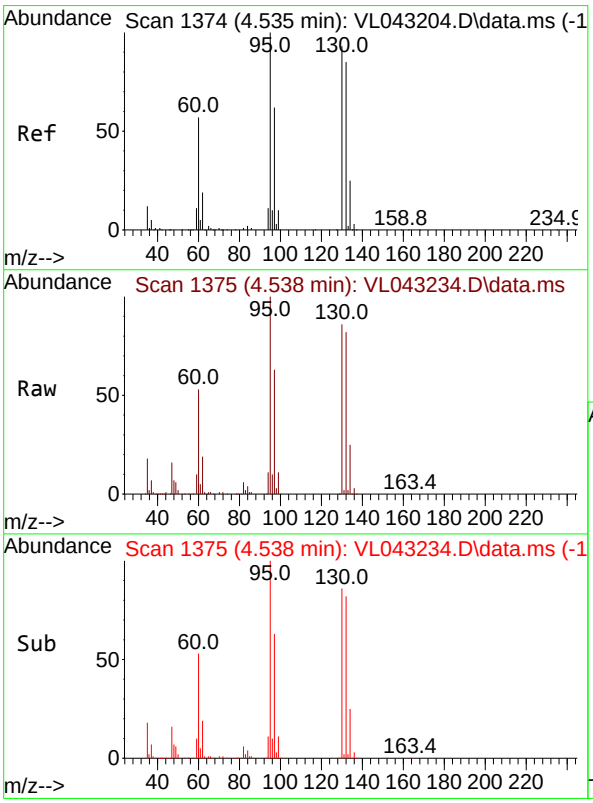
#37
1,2-Dichloroethane
Concen: 10.630 ppbv
RT: 3.211 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 62 Resp: 169512

Ion	Ratio	Lower	Upper
62	100		
98	6.0	5.5	8.3

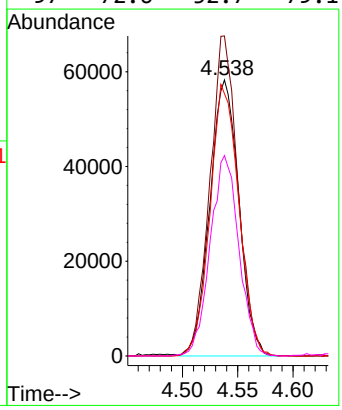


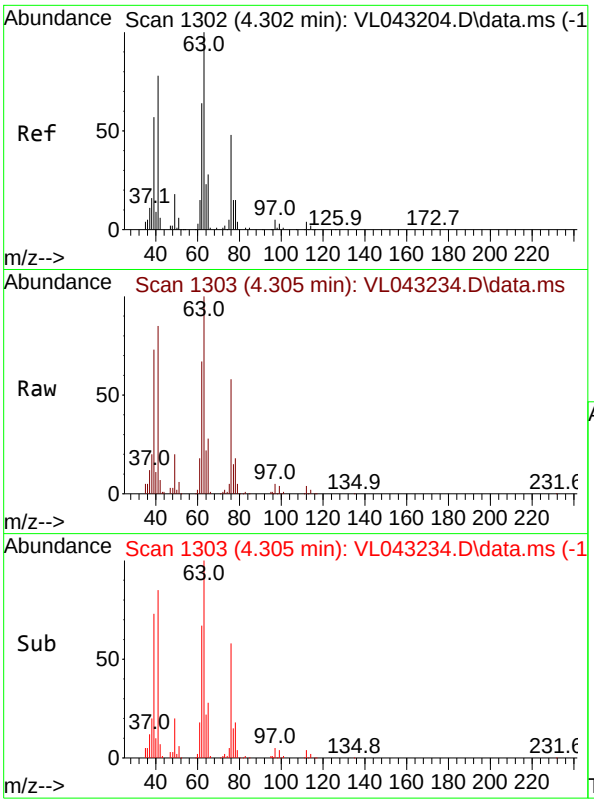


#38
Trichloroethene
Concen: 9.965 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:130 Resp: 106290

Ion	Ratio	Lower	Upper
130	100		
95	115.8	85.7	128.5
132	94.9	73.4	110.0
97	72.6	52.7	79.1



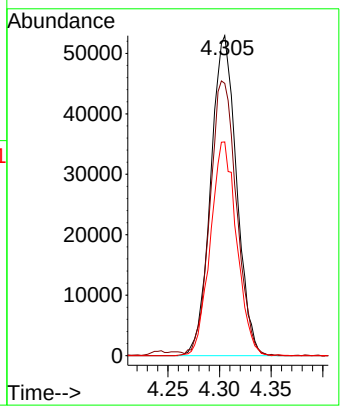


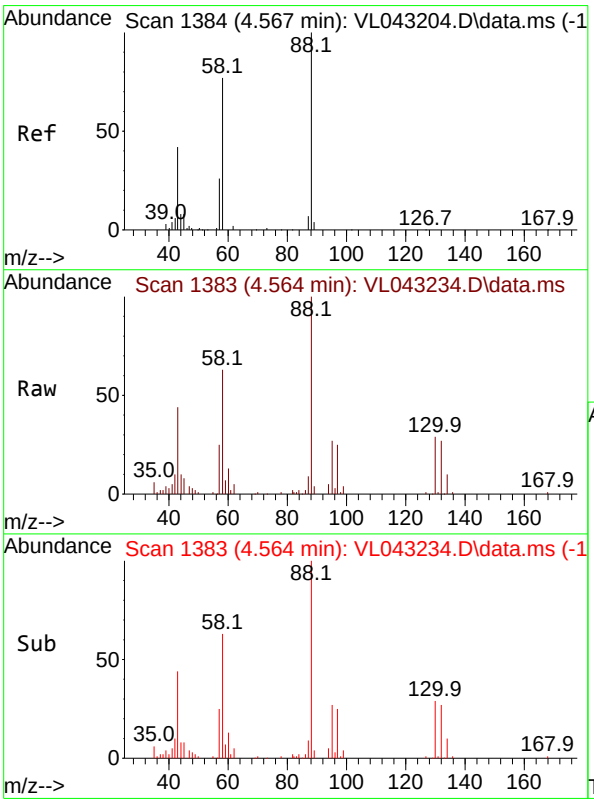
#39
1,2-Dichloropropane
Concen: 9.228 ppbv
RT: 4.305 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 63 Resp: 92079

Ion	Ratio	Lower	Upper
63	100		
41	84.8	62.6	93.8
62	66.6	51.0	76.6

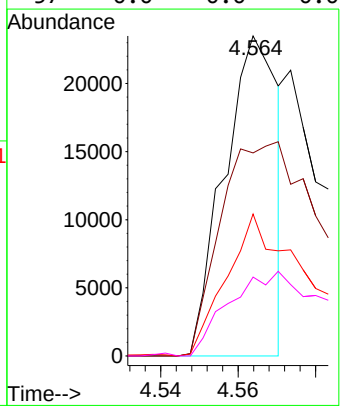


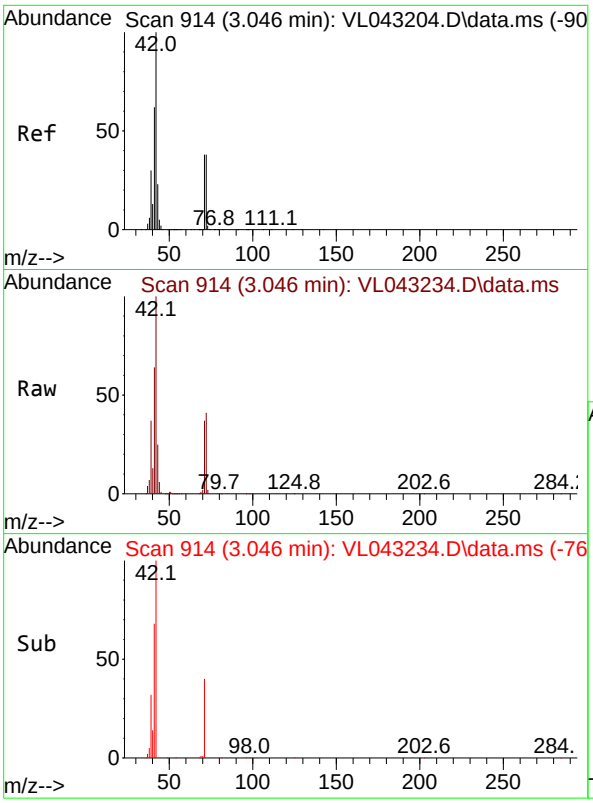


#40
1,4-Dioxane
Concen: 5.015 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. -0.004 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 88 Resp: 22493

Ion	Ratio	Lower	Upper
88	100		
58	0.0	63.0	94.6#
43	69.5	32.5	48.7#
57	0.0	0.0	0.0



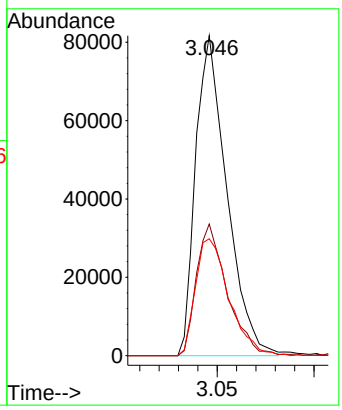


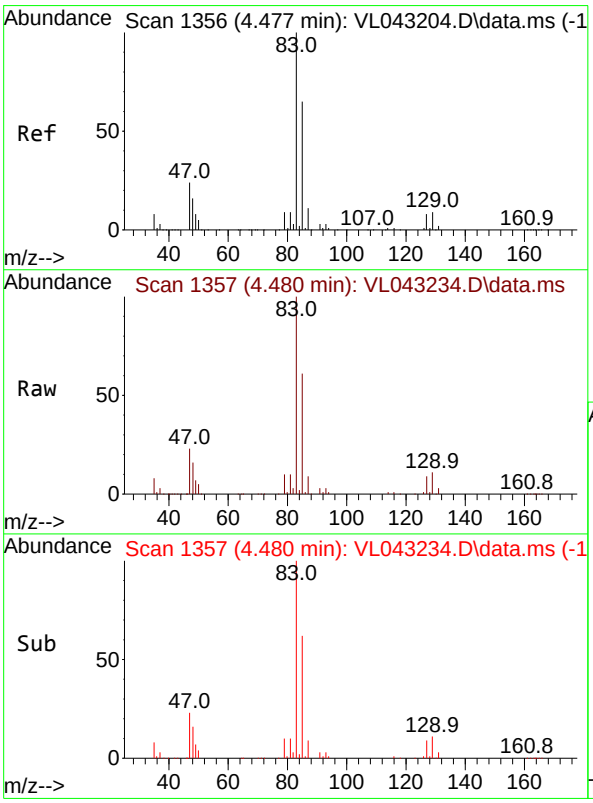
#41
Tetrahydrofuran
Concen: 8.252 ppbv
RT: 3.046 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 42 Resp: 91575

Ion	Ratio	Lower	Upper
42	100		
72	40.6	30.6	46.0
71	39.4	30.5	45.7

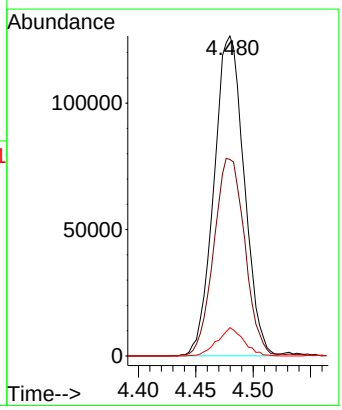


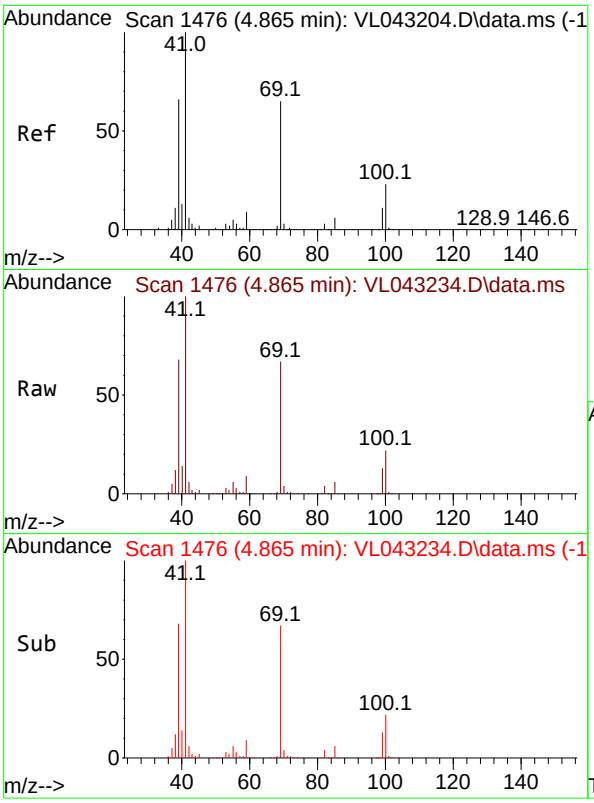


#42
Bromodichloromethane
Concen: 10.535 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 83 Resp: 231745

Ion	Ratio	Lower	Upper
83	100		
85	61.4	51.7	77.5
127	8.9	6.3	9.5



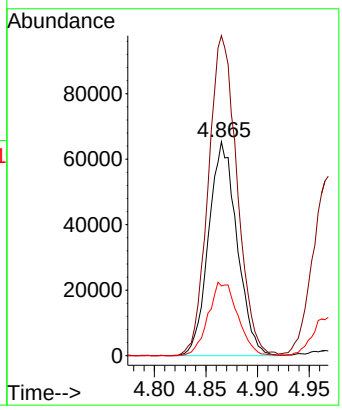


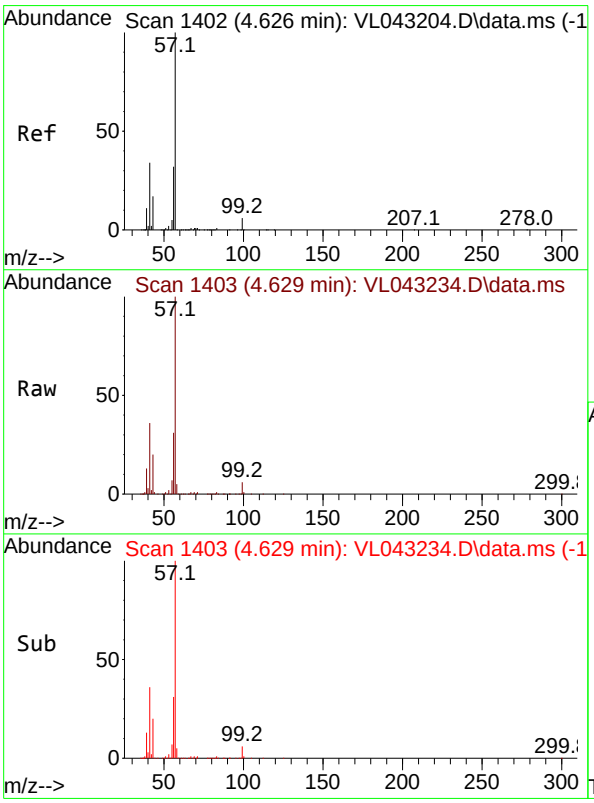
#43
Methyl Methacrylate
Concen: 8.645 ppbv
RT: 4.865 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 69 Resp: 125100

Ion	Ratio	Lower	Upper
69	100		
41	151.3	126.7	190.1
100	35.6	28.6	43.0

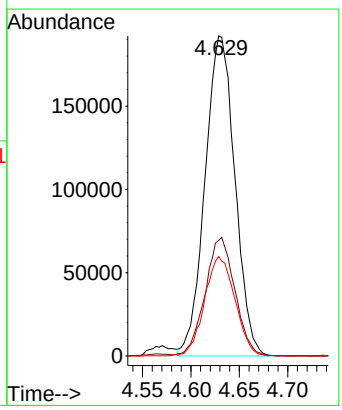


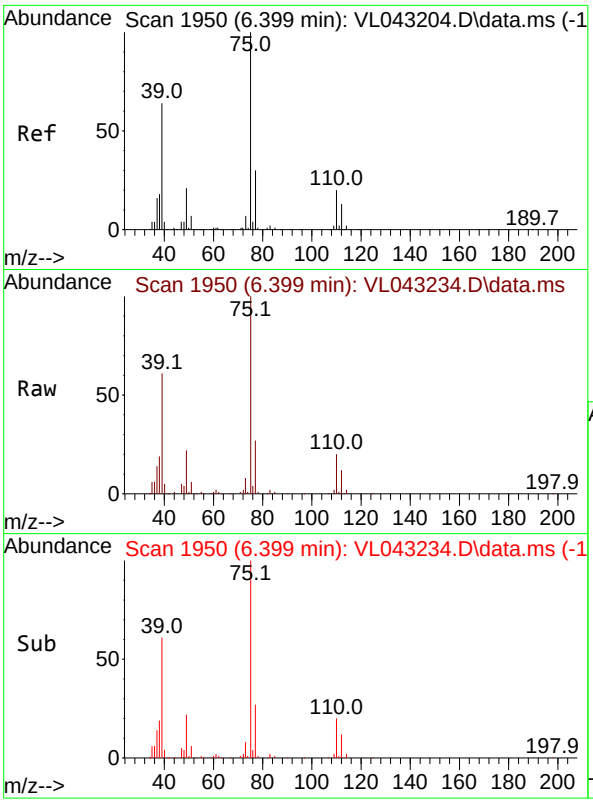


#44
2,2,4-Trimethylpentane
Concen: 8.817 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 57 Resp: 412813

Ion	Ratio	Lower	Upper
57	100		
41	37.5	28.0	42.0
56	31.6	25.6	38.4



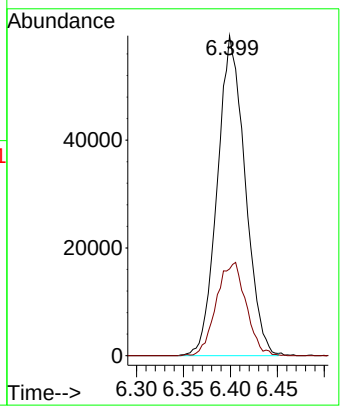


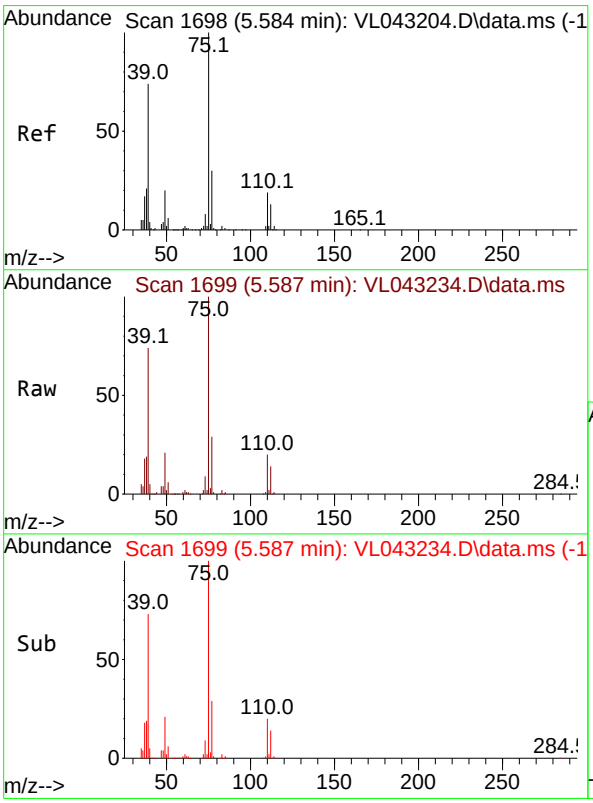
#45
t-1,3-Dichloropropene
Concen: 9.039 ppbv
RT: 6.399 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 75 Resp: 121926

Ion	Ratio	Lower	Upper
75	100		
77	27.1	24.3	36.5

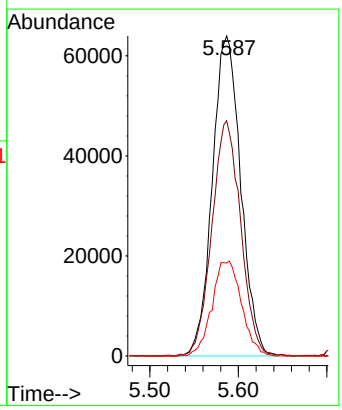


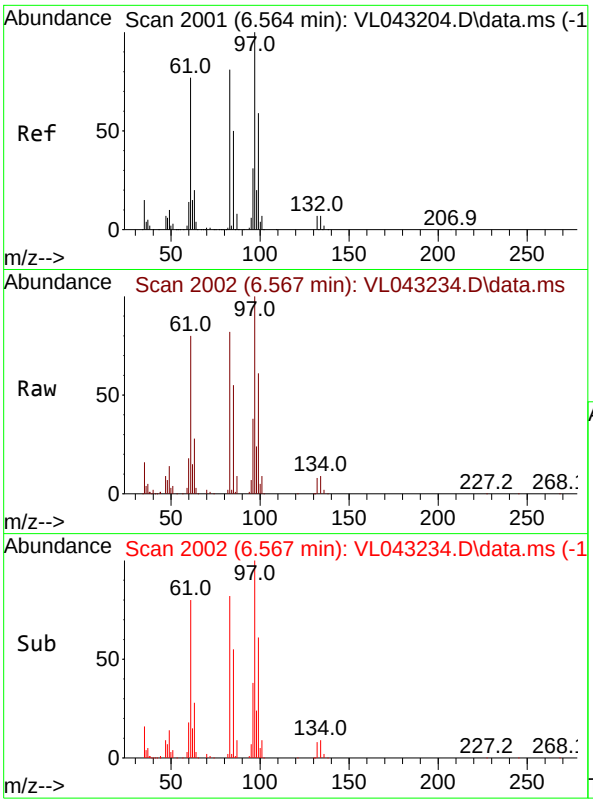


#46
cis-1,3-Dichloropropene
Concen: 8.987 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 75 Resp: 142340

Ion	Ratio	Lower	Upper
75	100		
39	73.3	59.1	88.7
77	29.0	24.2	36.2



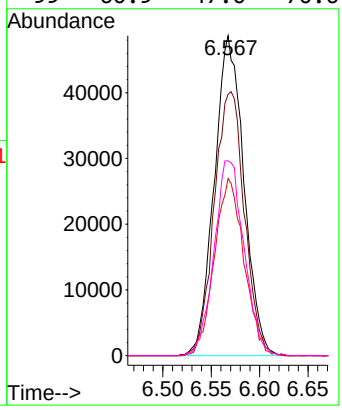


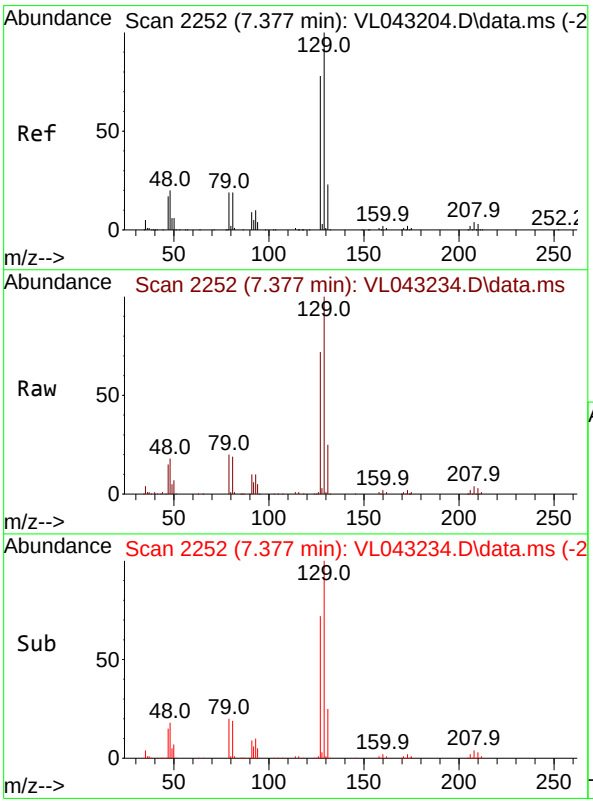
#47
1,1,2-Trichloroethane
Concen: 9.749 ppbv
RT: 6.567 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 97 Resp: 103237

Ion	Ratio	Lower	Upper
97	100		
83	81.7	64.6	97.0
85	55.3	39.4	59.2
99	60.9	47.0	70.6

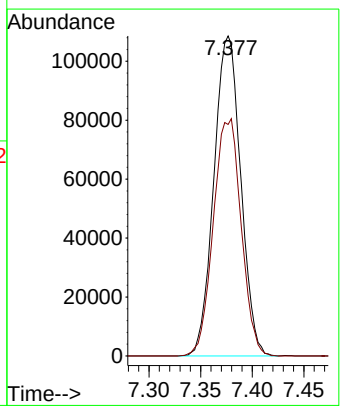


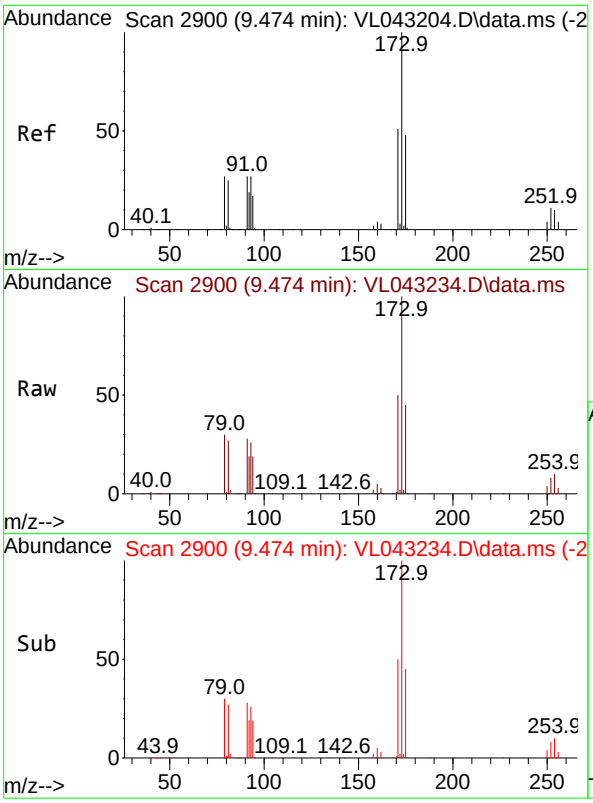


#48
Dibromochloromethane
Concen: 10.799 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:129 Resp: 196614

Ion	Ratio	Lower	Upper
129	100		
127	76.8	39.3	117.9



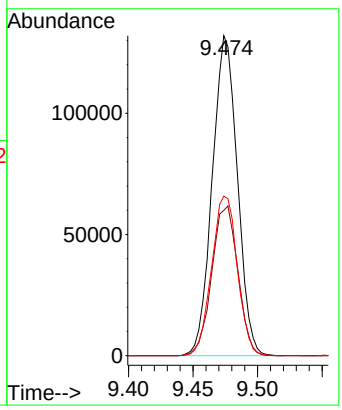


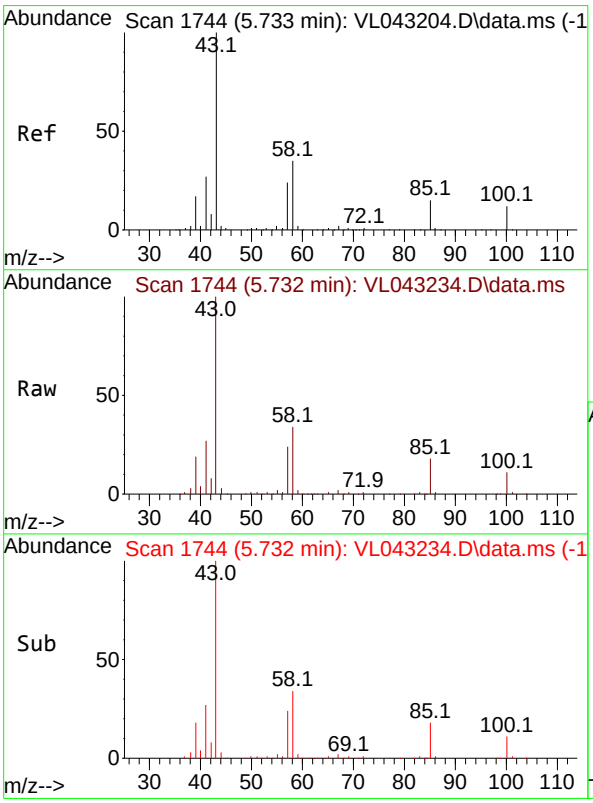
#49
Bromoform
Concen: 11.069 ppbv
RT: 9.474 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:173 Resp: 178495

Ion	Ratio	Lower	Upper
173	100		
175	48.5	38.6	58.0
171	51.2	40.6	61.0

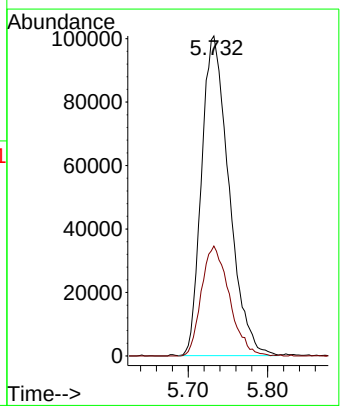


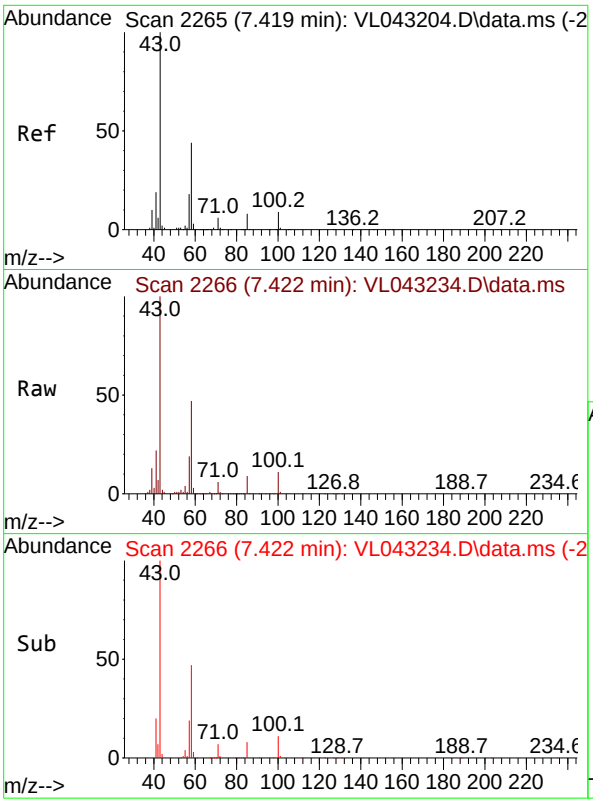


#50
4-Methyl-2-Pentanone
Concen: 8.526 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 43 Resp: 241341

Ion	Ratio	Lower	Upper
43	100		
58	35.1	28.4	42.6



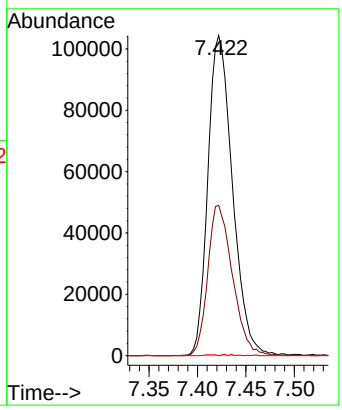


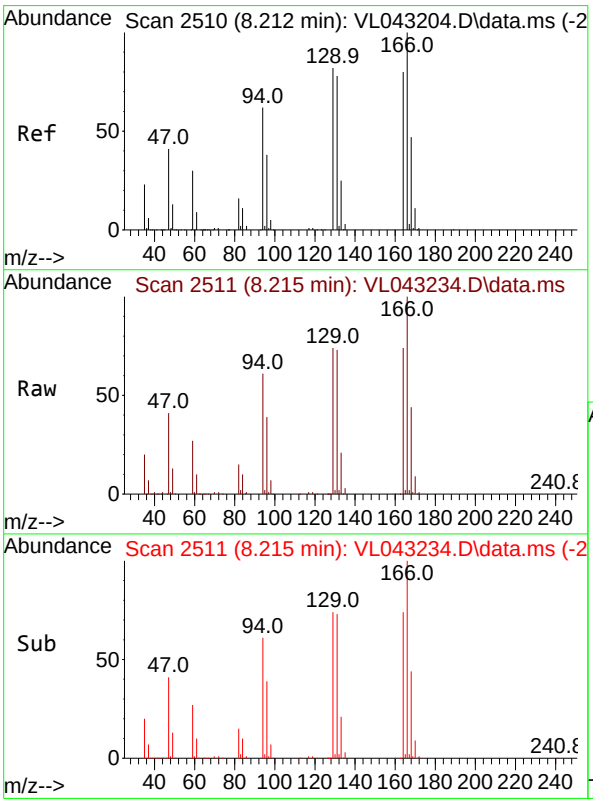
#51
2-Hexanone
Concen: 8.375 ppbv
RT: 7.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 43 Resp: 184090

Ion	Ratio	Lower	Upper
43	100		
58	47.5	38.4	57.6
98	0.2	0.0	0.0#

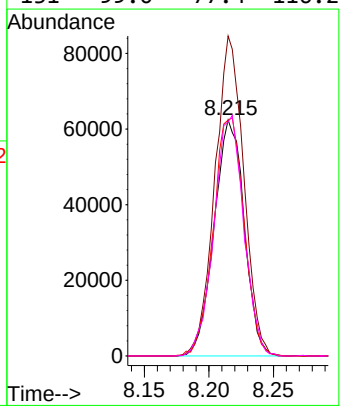


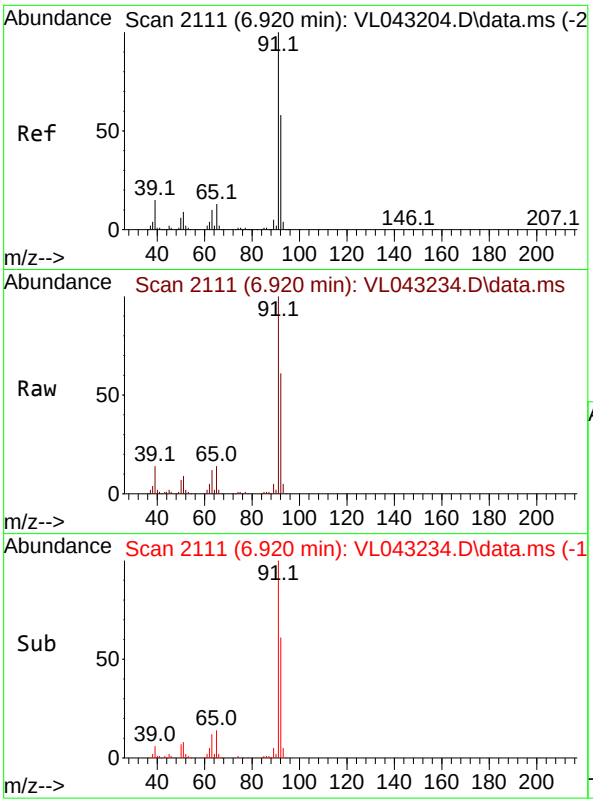


#52
Tetrachloroethene
Concen: 9.913 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:164 Resp: 100528

Ion	Ratio	Lower	Upper
164	100		
166	135.5	99.4	149.2
129	99.6	81.8	122.8
131	99.0	77.4	116.2



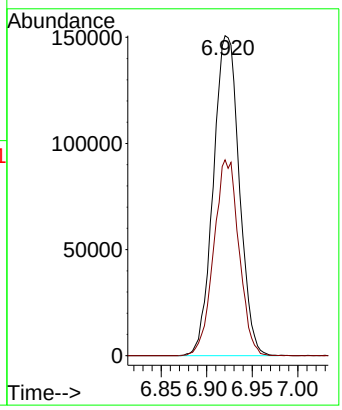


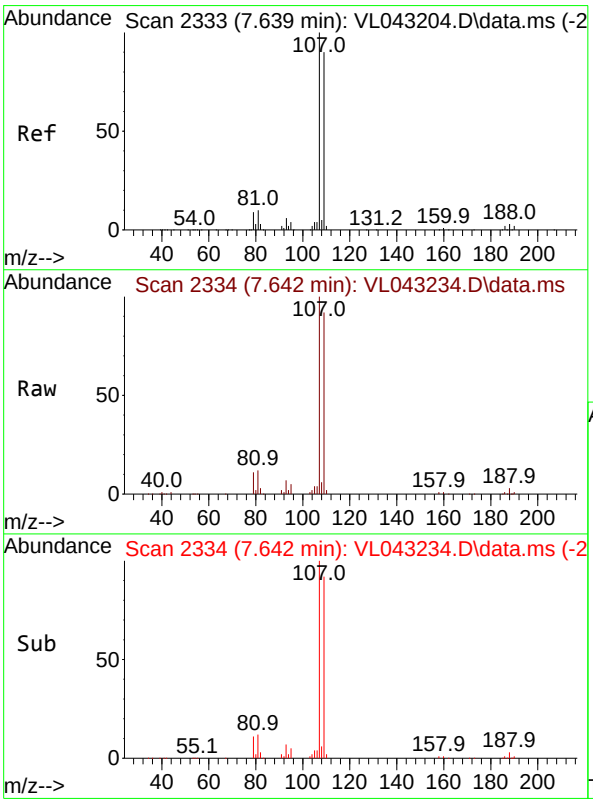
#53
Toluene
Concen: 9.253 ppbv
RT: 6.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 91 Resp: 298695

Ion	Ratio	Lower	Upper
91	100		
92	59.6	47.4	71.0

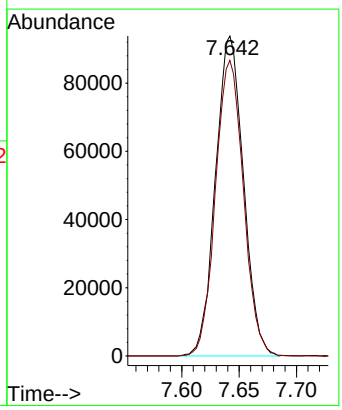


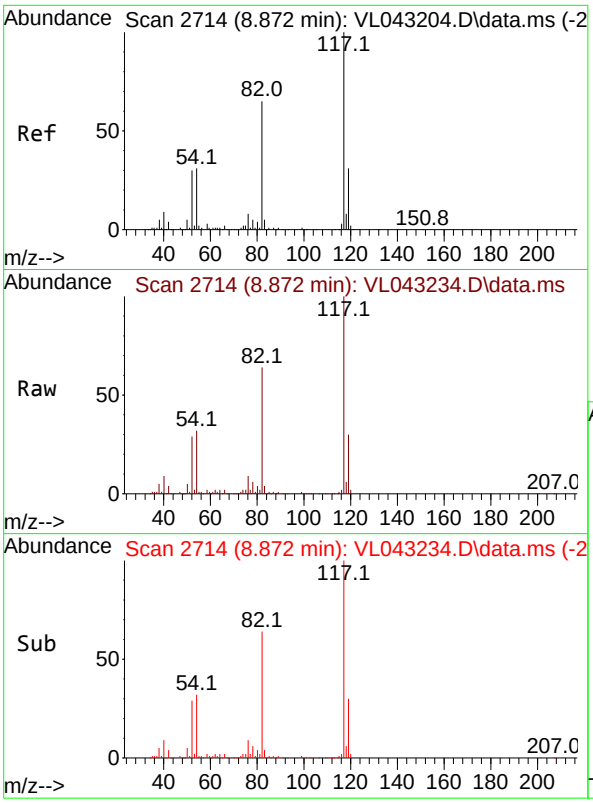


#54
1,2-Dibromoethane
Concen: 10.196 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:107 Resp: 158882

Ion	Ratio	Lower	Upper
107	100		
109	92.3	72.1	108.1



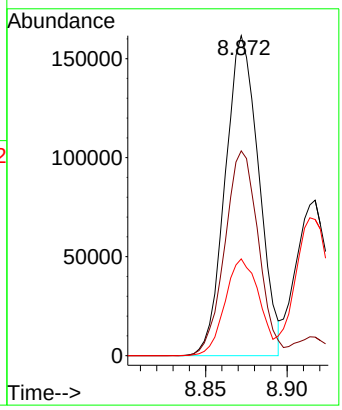


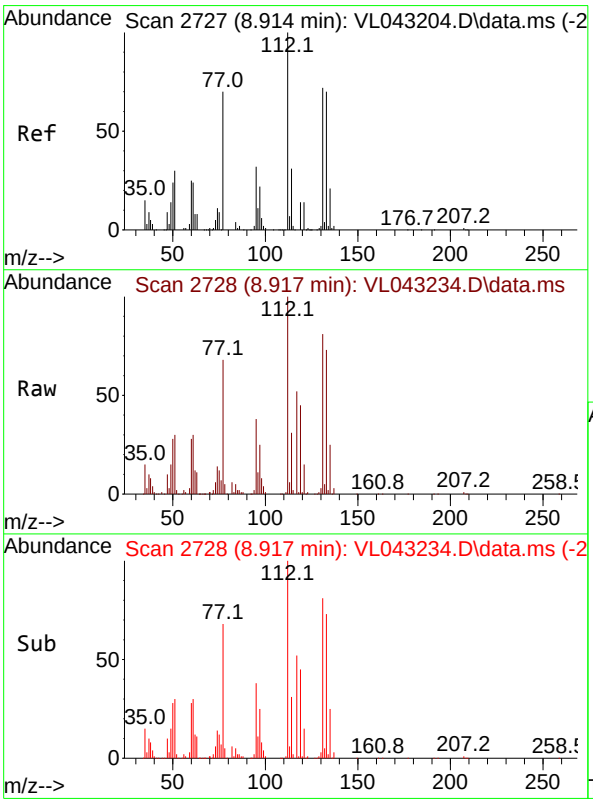
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:117 Resp: 231008

Ion	Ratio	Lower	Upper
117	100		
82	69.9	56.1	84.1
119	31.6	25.0	37.6

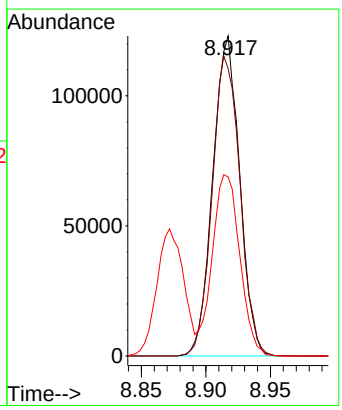


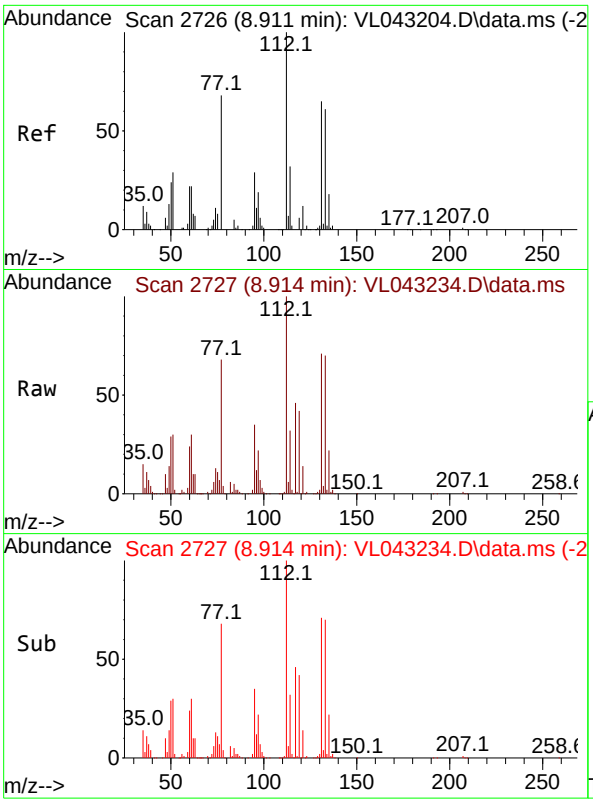


#56
1,1,1,2-Tetrachloroethane
Concen: 10.493 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:131 Resp: 178150

Ion	Ratio	Lower	Upper
131	100		
133	96.9	77.4	116.2
119	58.5	49.1	73.7



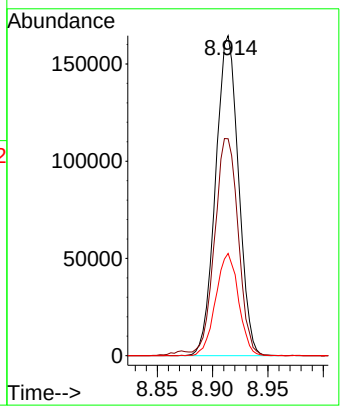


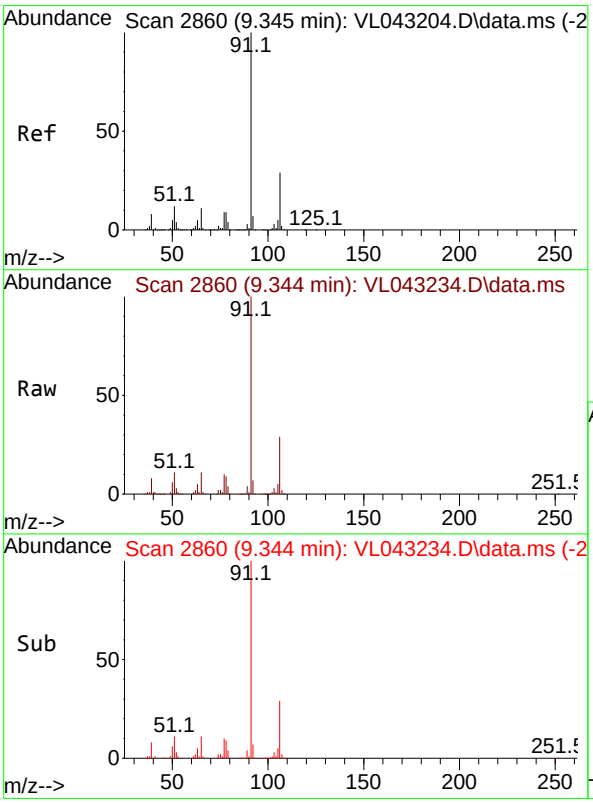
#57
Chlorobenzene
Concen: 10.006 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:112 Resp: 237323

Ion	Ratio	Lower	Upper
112	100		
77	67.8	55.5	83.3
114	31.9	29.1	35.5

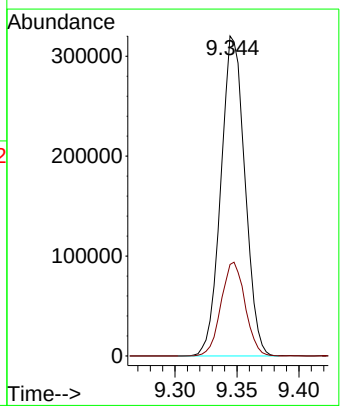


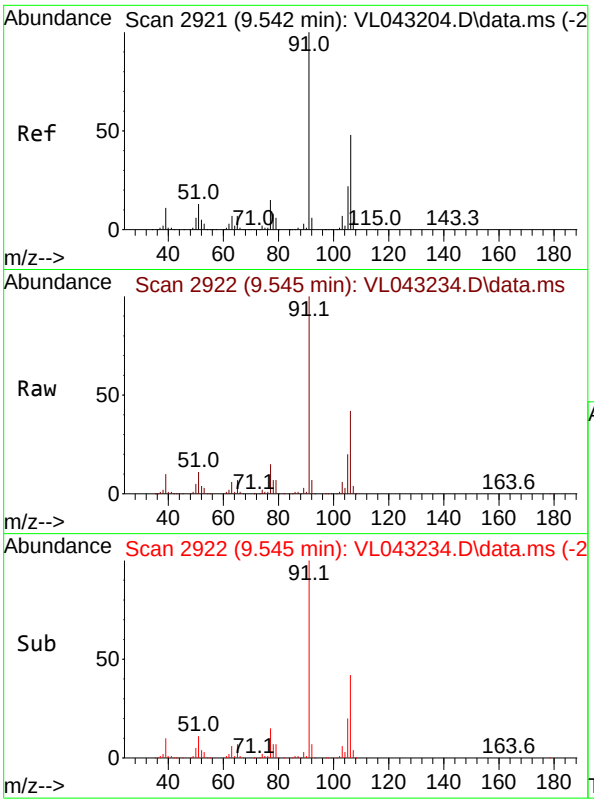


#58
Ethyl Benzene
Concen: 9.729 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 91 Resp: 432563

Ion	Ratio	Lower	Upper
91	100		
106	28.6	22.8	34.2



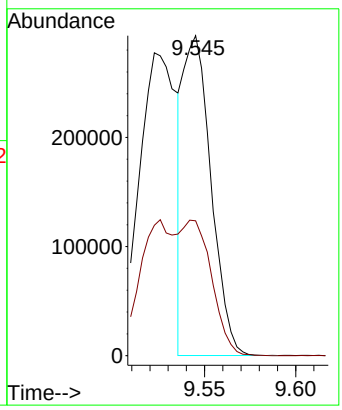


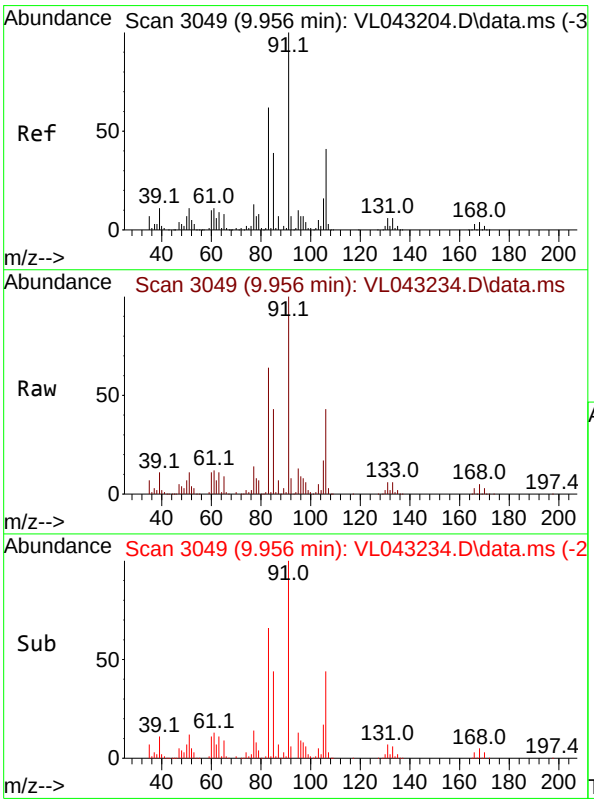
#59
m/p-Xylene
Concen: 8.761 ppbv
RT: 9.545 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 91 Resp: 312310

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

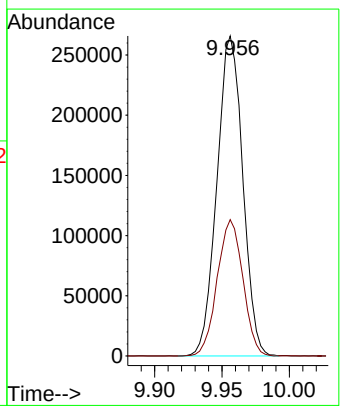


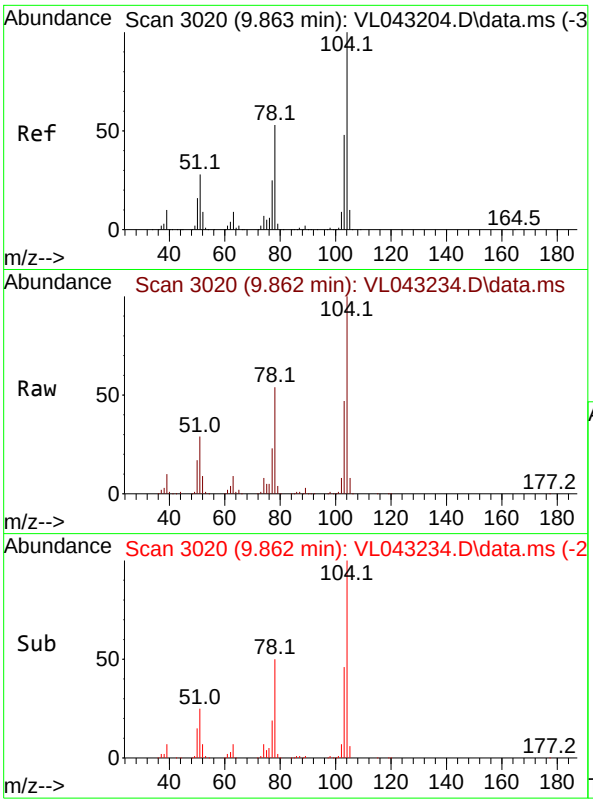


#60
o-Xylene
Concen: 9.955 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 91 Resp: 354511

Ion	Ratio	Lower	Upper
91	100		
106	42.3	20.9	62.8



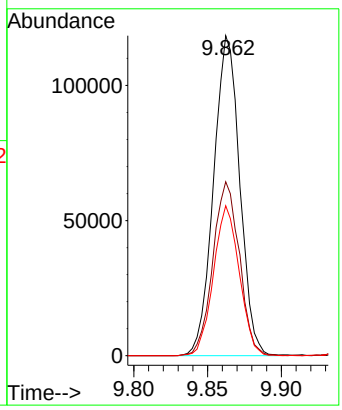


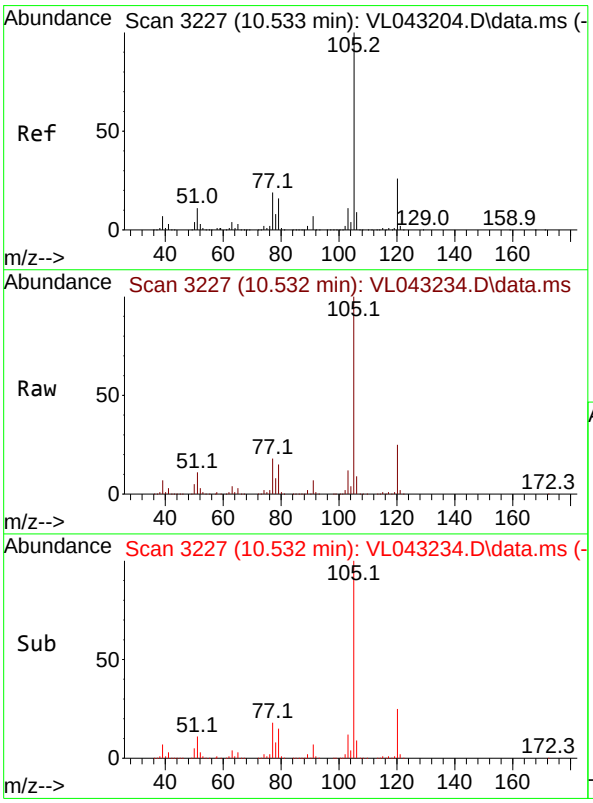
#61
Styrene
Concen: 9.383 ppbv
RT: 9.862 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:104 Resp: 146231

Ion	Ratio	Lower	Upper
104	100		
78	55.1	42.1	63.1
103	46.3	37.2	55.8

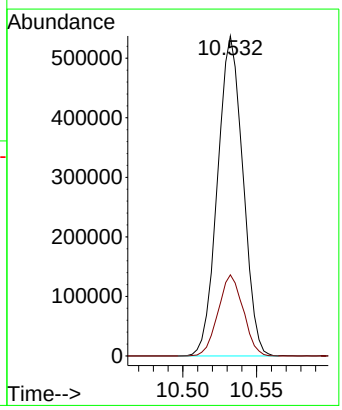


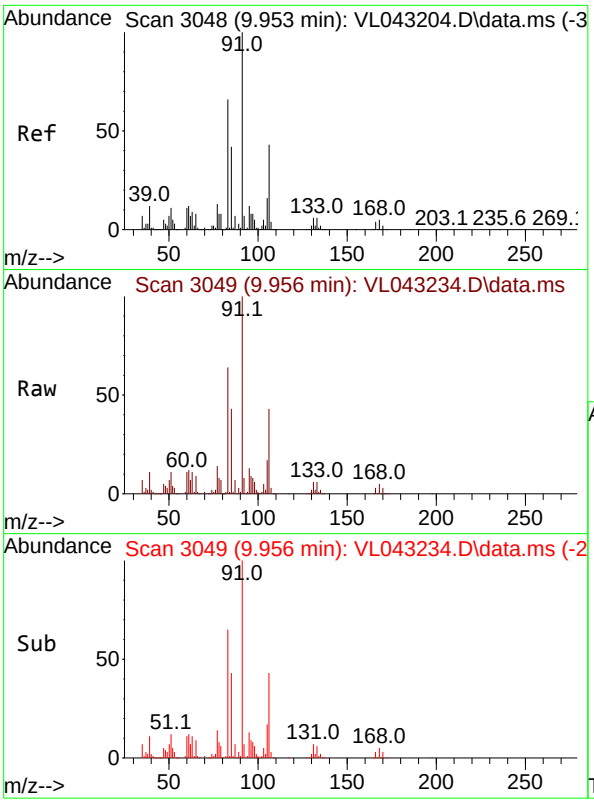


#62
Isopropylbenzene
Concen: 10.105 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:105 Resp: 643813

Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8



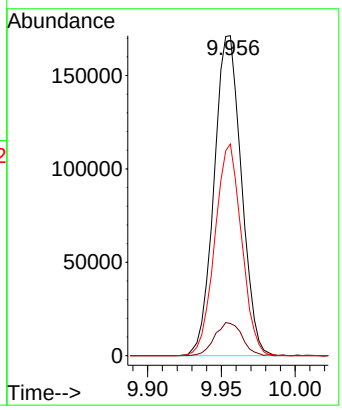


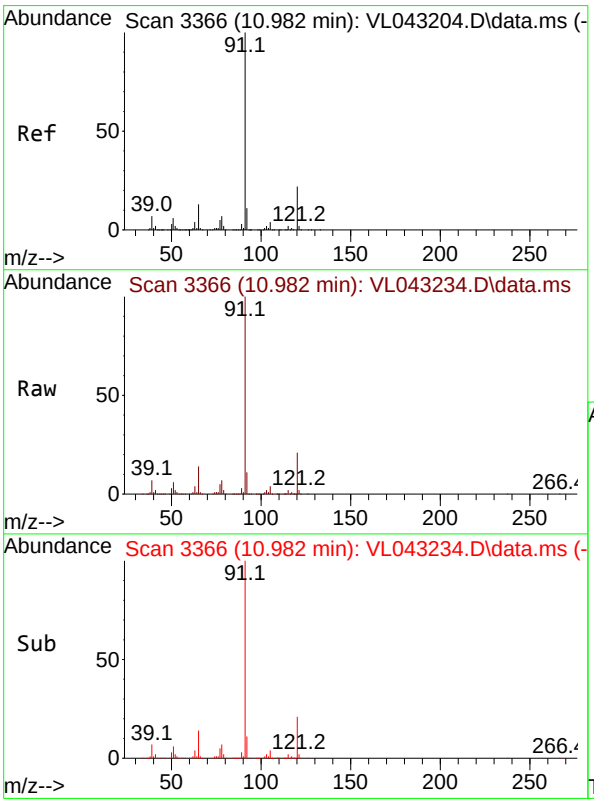
#63
1,1,2,2-Tetrachloroethane
Concen: 9.751 ppbv
RT: 9.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 83 Resp: 220953

Ion	Ratio	Lower	Upper
83	100		
131	10.4	4.8	14.3
85	64.6	31.9	95.9

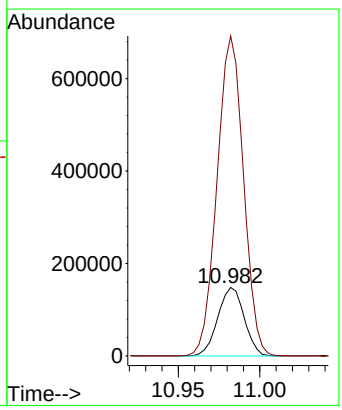


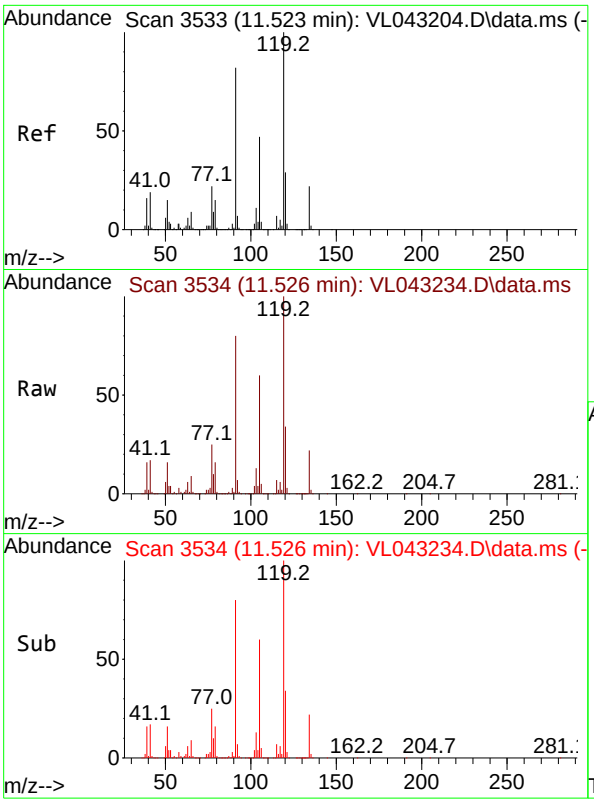


#64
n-propylbenzene
Concen: 10.178 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:120 Resp: 166609

Ion	Ratio	Lower	Upper
120	100		
91	467.6	377.1	565.7



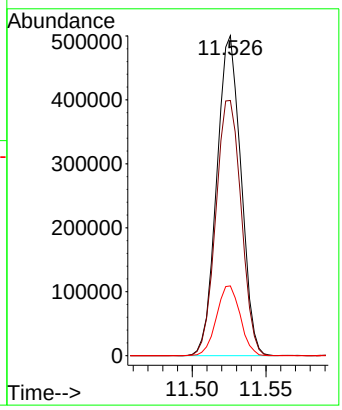


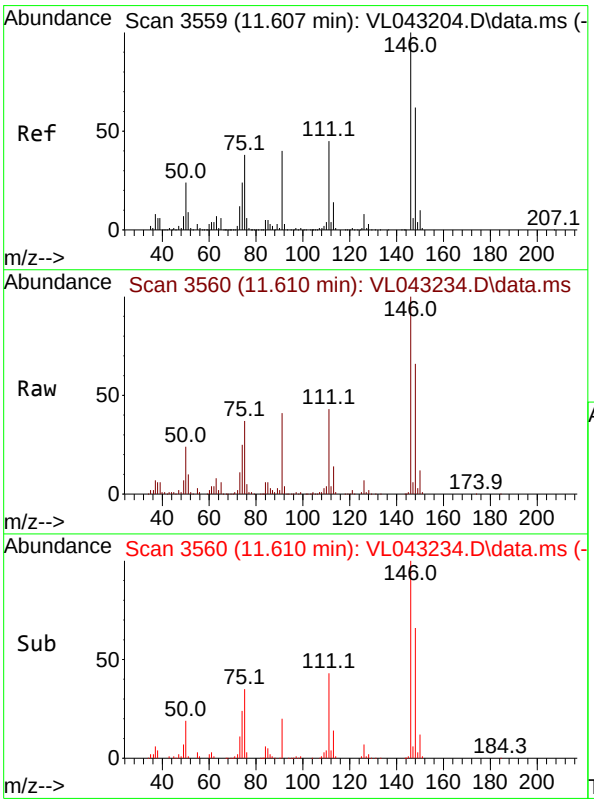
#65
tert-Butylbenzene
Concen: 10.053 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:119 Resp: 571982

Ion	Ratio	Lower	Upper
119	100		
91	83.5	65.3	97.9
134	21.4	17.0	25.4

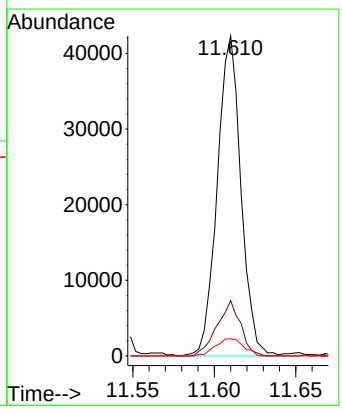


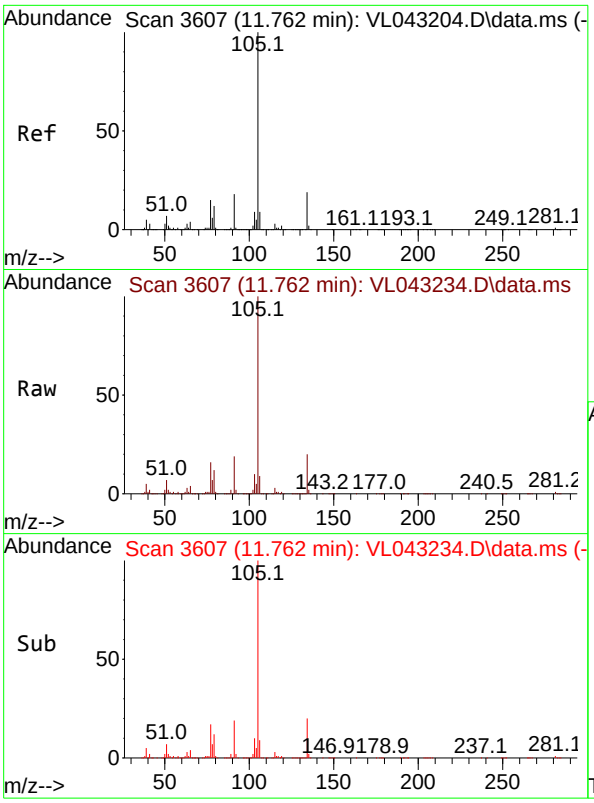


#66
Benzyl Chloride
Concen: 7.403 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 91 Resp: 42746

Ion	Ratio	Lower	Upper
91	100		
126	17.3	14.4	21.6
128	6.4	4.6	6.8



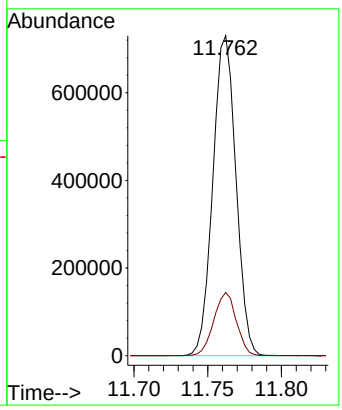


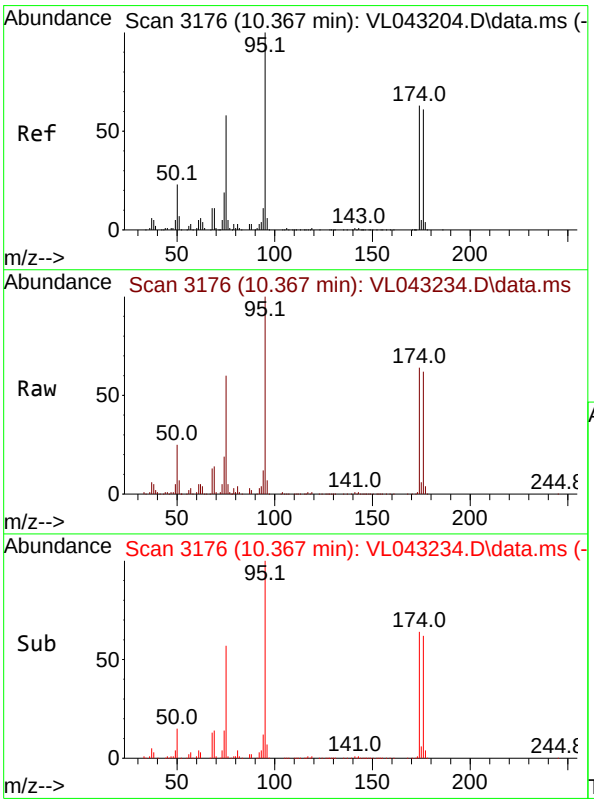
#67
sec-Butylbenzene
Concen: 9.994 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:105 Resp: 793758

Ion	Ratio	Lower	Upper
105	100		
134	19.3	15.0	22.6

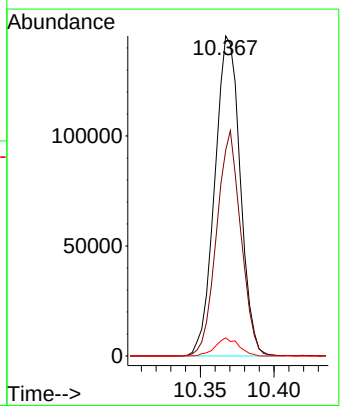


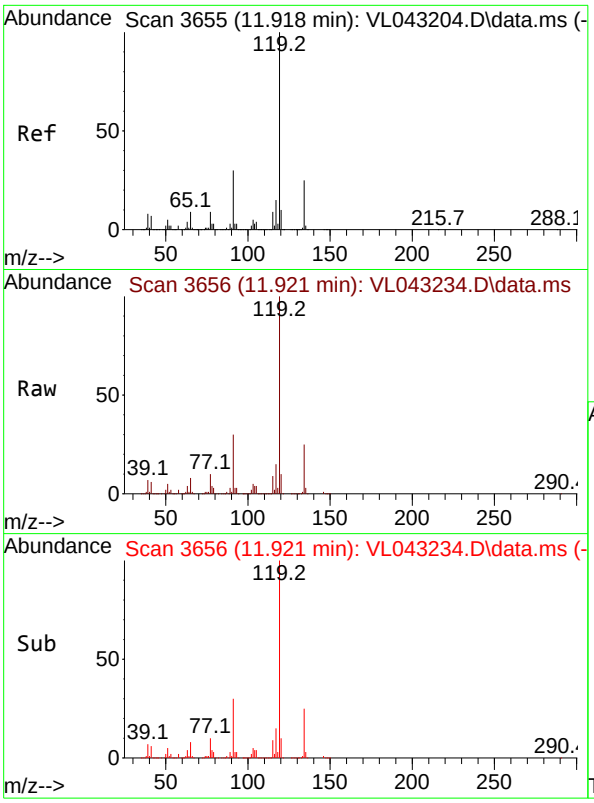


#68
1-Bromo-4-Fluorobenzene
Concen: 10.303 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 95 Resp: 174465

Ion	Ratio	Lower	Upper
95	100		
174	67.3	50.2	75.2
175	5.2	4.1	6.1



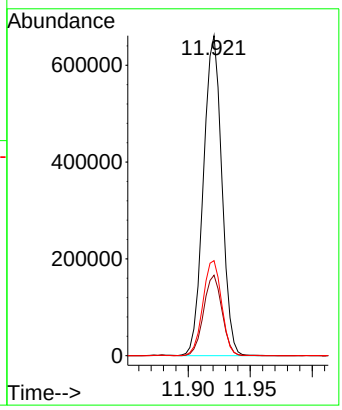


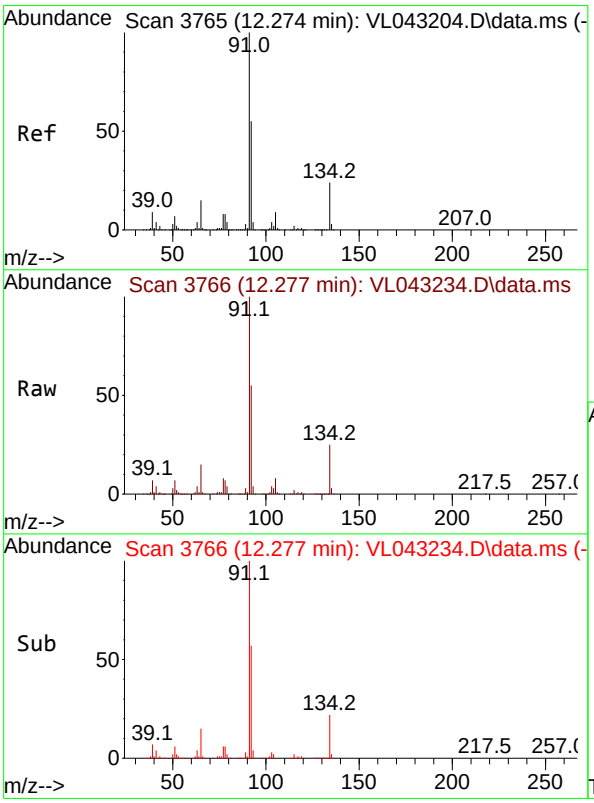
#69
p-Isopropyltoluene
Concen: 10.151 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:119 Resp: 682969

Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	30.3	23.8	35.8

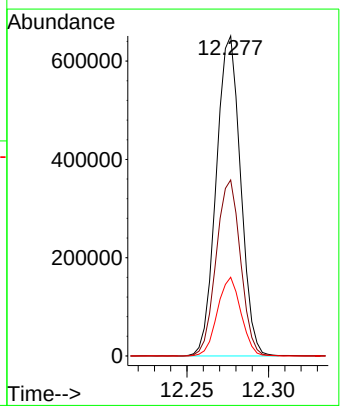


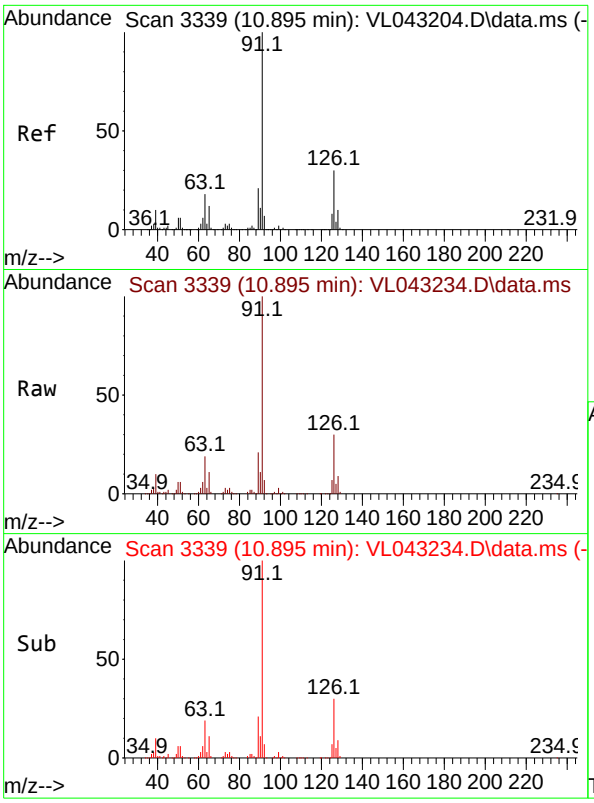


#70
n-Butylbenzene
Concen: 10.357 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion: 91 Resp: 676010

Ion	Ratio	Lower	Upper
91	100		
92	55.0	43.5	65.3
134	23.8	19.0	28.6



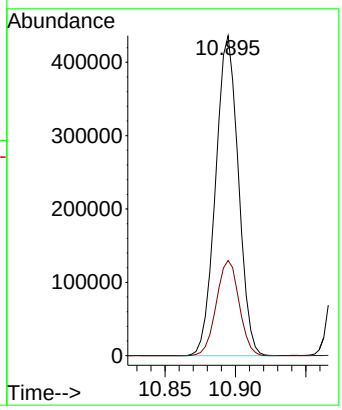


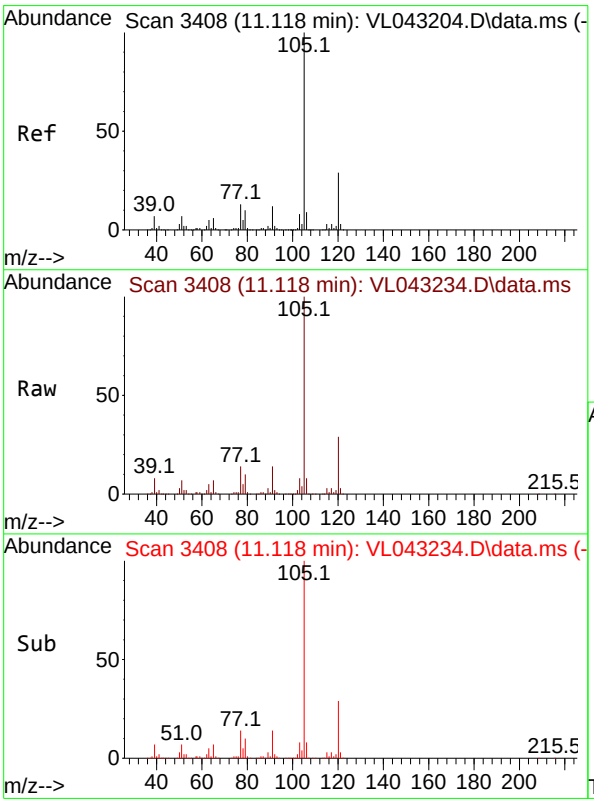
#71
2-Chlorotoluene
Concen: 10.019 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion: 91 Resp: 490653

Ion	Ratio	Lower	Upper
91	100		
126	29.7	11.7	46.7

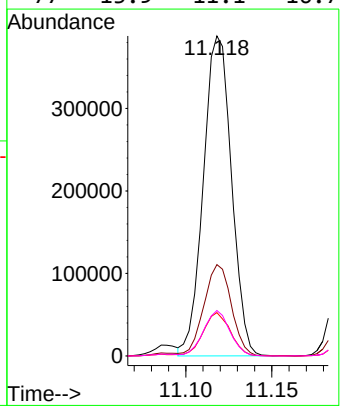


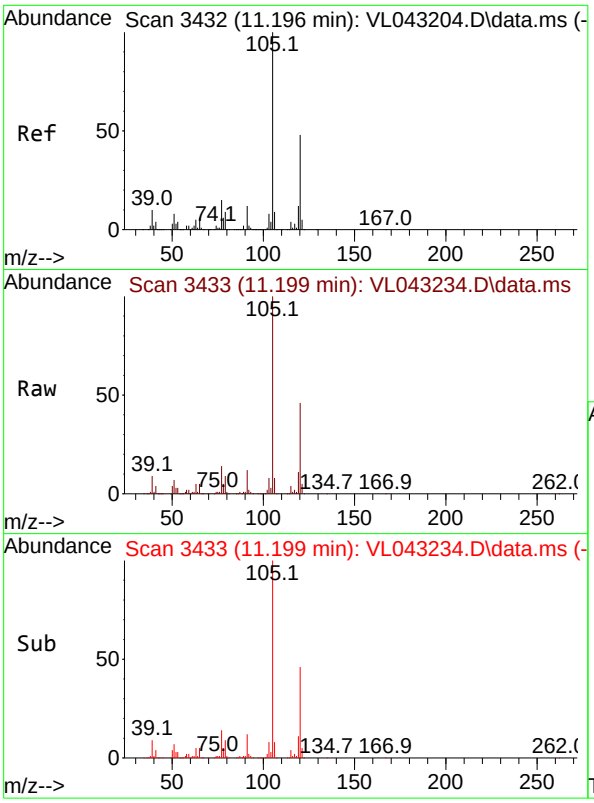


#72
4-Ethyltoluene
Concen: 10.179 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:105 Resp: 441451

Ion	Ratio	Lower	Upper
105	100		
120	28.7	23.8	35.8
91	13.6	10.3	15.5
77	13.9	11.1	16.7



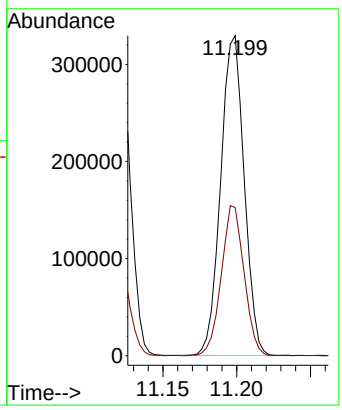


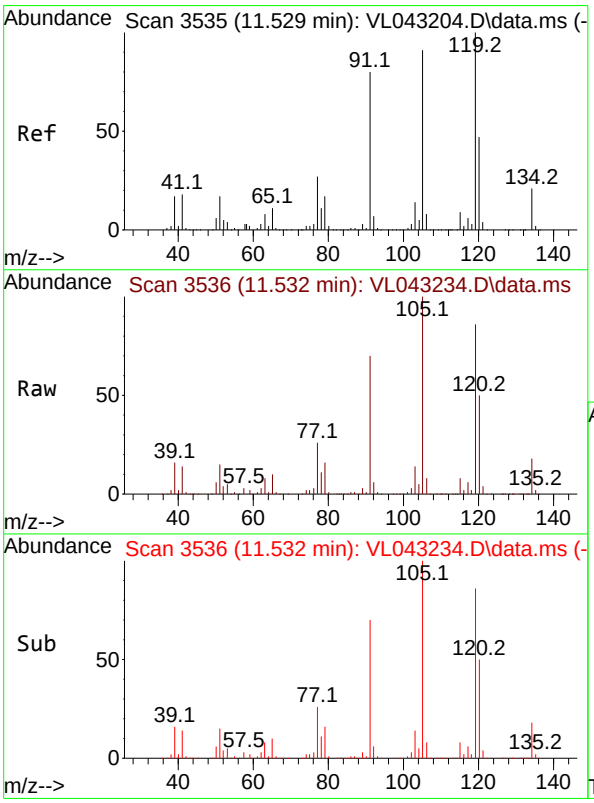
#73
1,3,5-Trimethylbenzene
Concen: 10.019 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:105 Resp: 364625

Ion	Ratio	Lower	Upper
105	100		
120	46.3	38.6	57.8

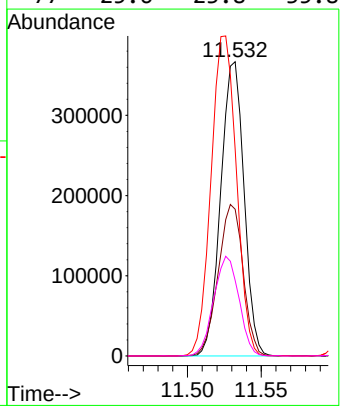


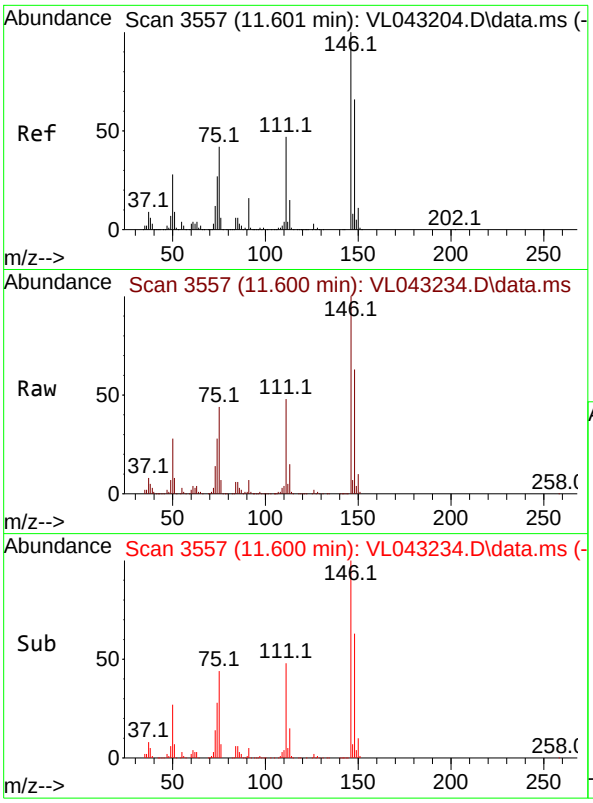


#74
1,2,4-Trimethylbenzene
Concen: 10.161 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:105 Resp: 403572

Ion	Ratio	Lower	Upper
105	100		
120	49.9	41.7	62.5
91	70.2	70.0	105.0
77	25.6	23.8	35.8



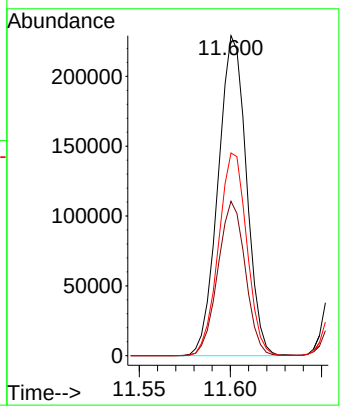


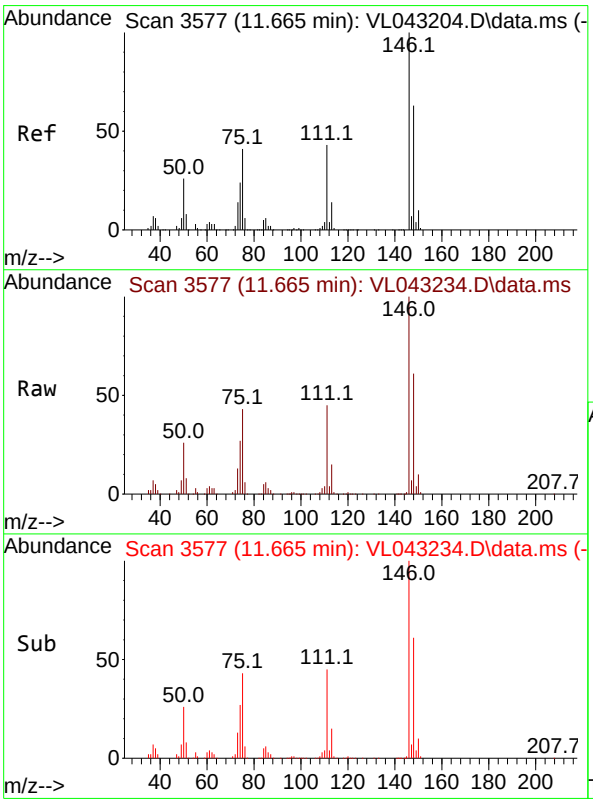
#75
1,3-Dichlorobenzene
Concen: 10.676 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:146 Resp: 247440

Ion	Ratio	Lower	Upper
146	100		
111	46.7	23.4	70.3
148	63.3	31.6	95.0

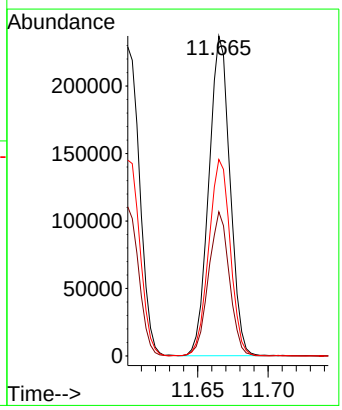


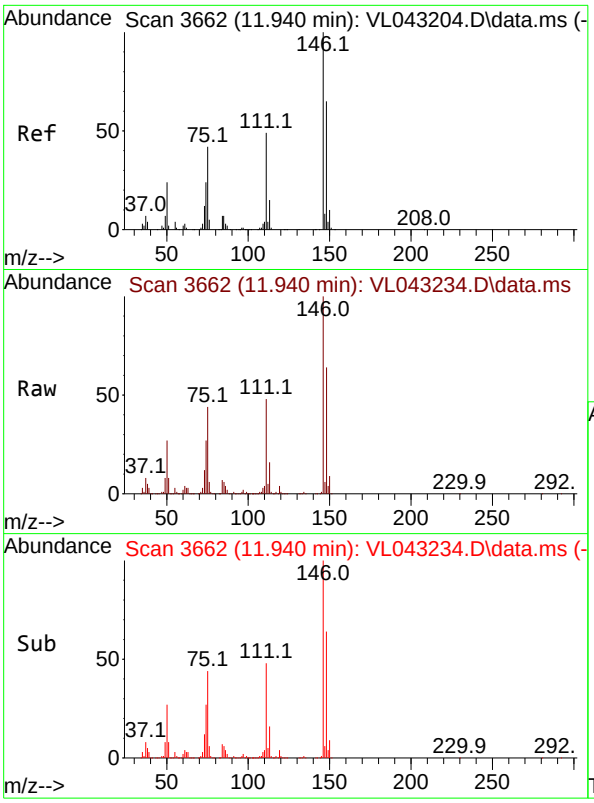


#76
1,4-Dichlorobenzene
Concen: 10.684 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:146 Resp: 247680

Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.8	68.3
148	62.8	31.8	95.4



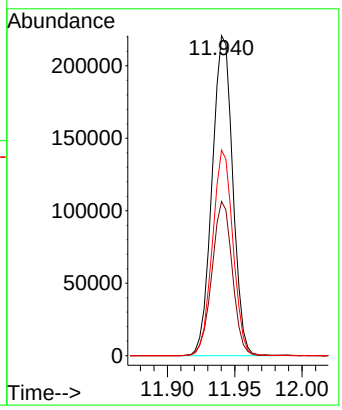


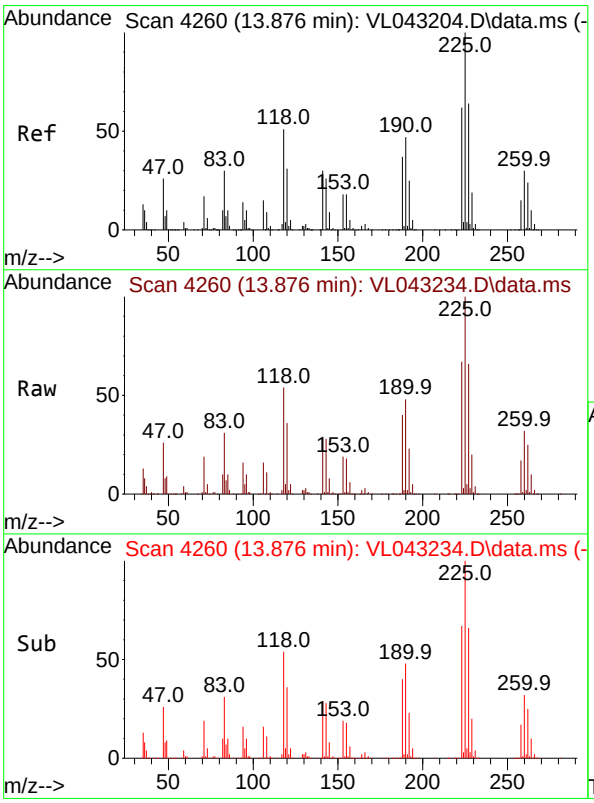
#77
1,2-Dichlorobenzene
Concen: 10.548 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:146 Resp: 235048

Ion	Ratio	Lower	Upper
146	100		
111	47.7	24.3	73.0
148	64.1	31.6	94.7

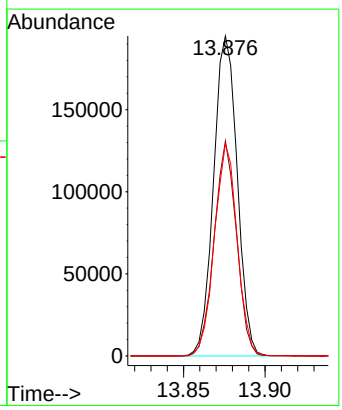


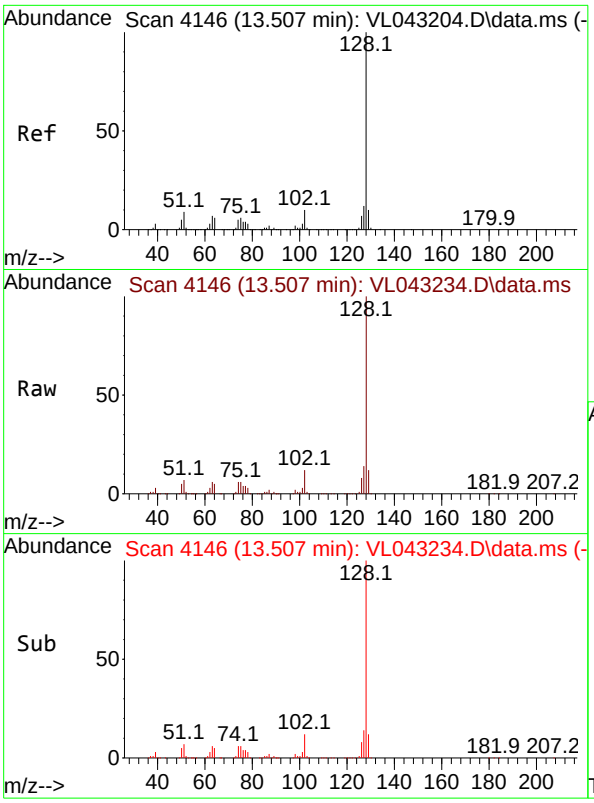


#78
Hexachloro-1,3-Butadiene
Concen: 10.561 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:225 Resp: 196410

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.2	75.4
227	63.8	51.1	76.7



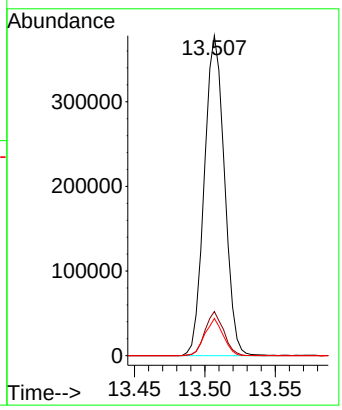


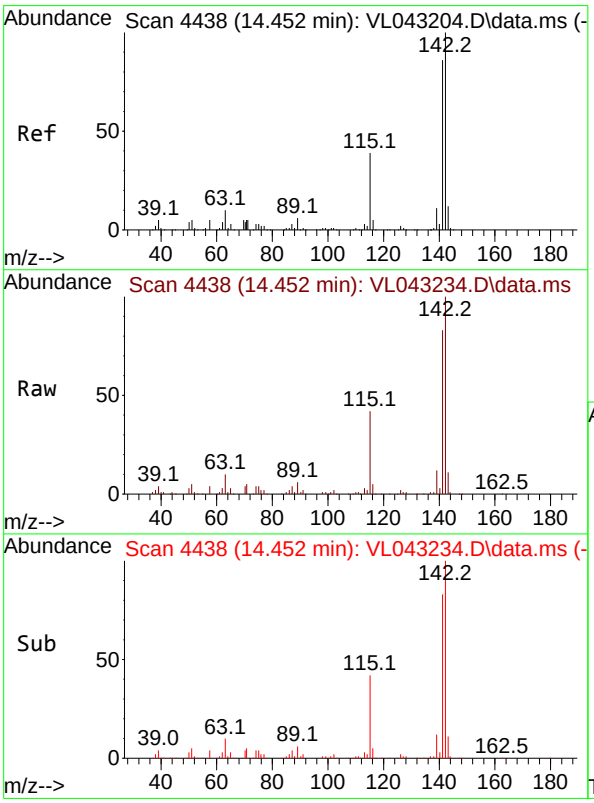
#79
Naphthalene
Concen: 10.683 ppbv
RT: 13.507 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:128 Resp: 376827

Ion	Ratio	Lower	Upper
128	100		
127	13.8	9.9	14.9
129	11.7	8.4	12.6

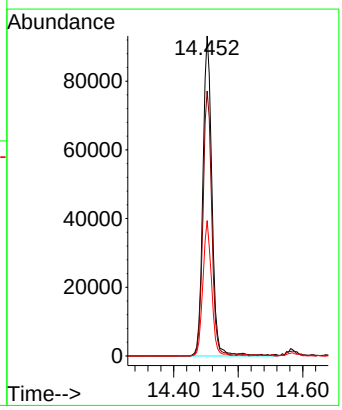


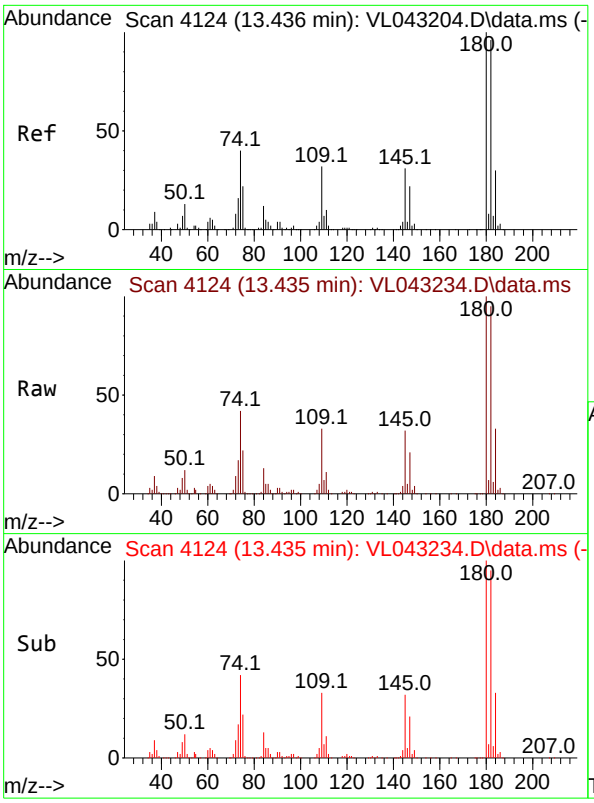


#80
Naphthalene,2-methyl-
Concen: 9.844 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Tgt Ion:142 Resp: 91146

Ion	Ratio	Lower	Upper
142	100		
141	81.5	67.1	100.7
115	40.9	31.9	47.9



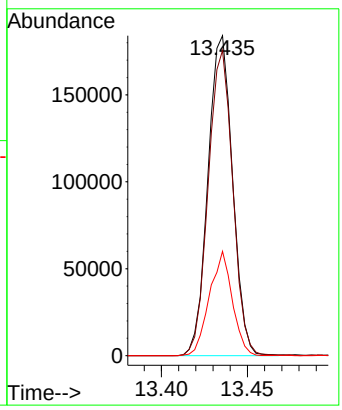


#81
1,2,4-Trichlorobenzene
Concen: 11.616 ppbv
RT: 13.435 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043234.D
Acq: 19 Nov 2025 11:56

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tgt Ion:180 Resp: 183247

Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.4	116.2
184	30.4	24.2	36.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043235.D
Acq On : 19 Nov 2025 12:43
Operator : SY/MD
Sample : Q3626-01 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Quant Time: Nov 20 00:03:50 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

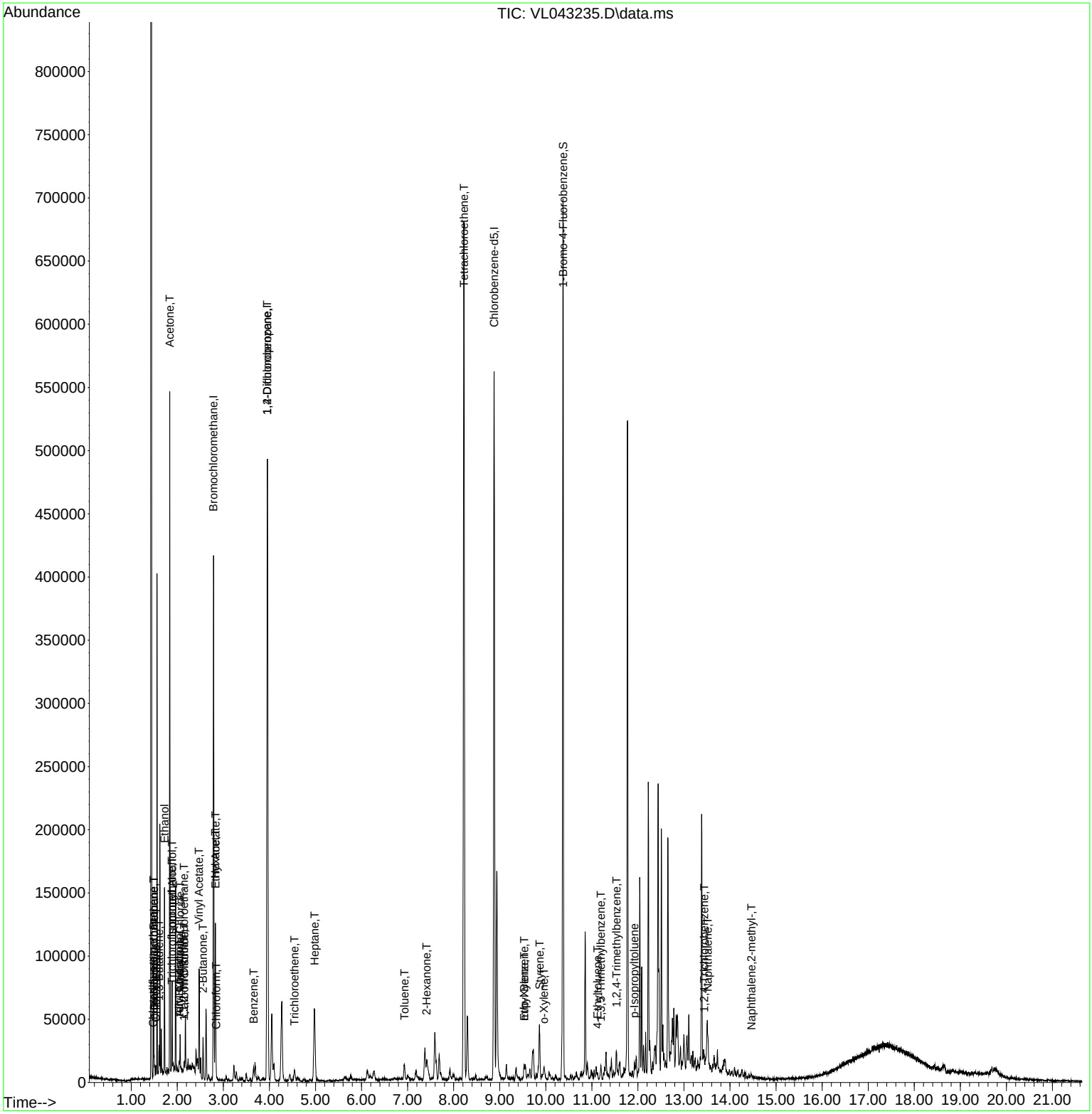
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	106377	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	292792	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.879	117	229139	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	172437	10.267	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3925	0.262	ppbv		99
3) Chlorodifluoromethane	1.476	51	3029	0.205	ppbv	#	83
4) Chloromethane	1.532	50	1622	0.289	ppbv	#	88
9) Propene	1.486	41	11523	1.839	ppbv	#	1
10) Heptane	4.982	43	24157	1.295	ppbv		94
11) Trichlorofluoromethane	1.881	101	1771	0.122	ppbv		94
12) 1,1,2-Trichlorotrifluo...	2.143	101	556	0.049	ppbv	#	77
13) Ethanol	1.722	45	47879	21.731	ppbv		99
15) Acetone	1.836	43	230501	15.596	ppbv		98
16) 1,3-Butadiene	1.603	39	2936	0.446	ppbv	#	62
17) tert-Butyl alcohol	2.043	59	3443	0.177	ppbv	#	91
19) Isopropyl Alcohol	1.888	45	29482	3.530	ppbv	#	1
20) Methylene Chloride	2.062	84	4140	0.180	ppbv		93
21) Allyl Chloride	2.043	41	1291	0.130	ppbv	#	66
23) Vinyl Acetate	2.473	43	23758	1.332	ppbv	#	40
25) Ethyl Acetate	2.829	43	21436	0.672	ppbv	#	78
26) Hexane	2.826	57	30379	2.174	ppbv	#	43
27) Carbon Disulfide	2.153	76	3349	0.235	ppbv	#	51
29) Chloroform	2.849	83	838	0.042	ppbv	#	46
34) 2-Butanone	2.558	43	20420	0.988	ppbv		99
36) Benzene	3.661	78	5671	0.202	ppbv	#	93
38) Trichloroethene	4.545	130	355	0.032	ppbv	#	46
39) 1,2-Dichloropropane	3.956	63	72824	7.096	ppbv	#	24
51) 2-Hexanone	7.416	43	9019	0.399	ppbv	#	29
52) Tetrachloroethene	8.225	164	119688	11.475	ppbv		95
53) Toluene	6.933	91	3706	0.112	ppbv	#	1
58) Ethyl Benzene	9.532	91	7823	0.177	ppbv		97
59) m/p-Xylene	9.532	91	7823	0.221	ppbv		94
60) o-Xylene	9.960	91	3639	0.103	ppbv		96
61) Styrene	9.869	104	8898	0.576	ppbv		94
69) p-Isopropyltoluene	11.924	119	3228	0.048	ppbv	#	80
72) 4-Ethyltoluene	11.125	105	1550	0.036	ppbv	#	55
73) 1,3,5-Trimethylbenzene	11.199	105	1315	0.036	ppbv	#	67
74) 1,2,4-Trimethylbenzene	11.536	105	5098	0.129	ppbv	#	53
79) Naphthalene	13.517	128	1520	0.043	ppbv	#	64
80) Naphthalene,2-methyl-	14.468	142	978	0.106	ppbv		96
81) 1,2,4-Trichlorobenzene	13.439	180	1269	0.081	ppbv	#	85

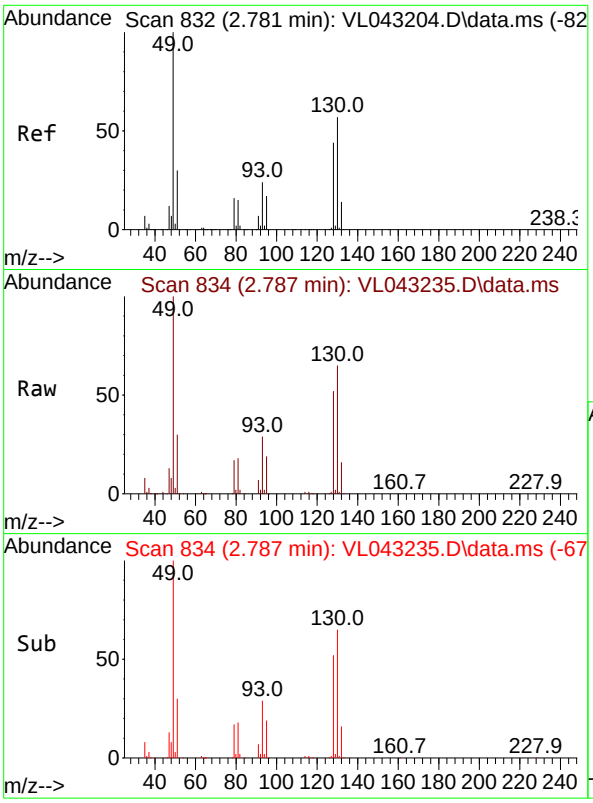
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043235.D
Acq On : 19 Nov 2025 12:43
Operator : SY/MD
Sample : Q3626-01 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Quant Time: Nov 20 00:03:50 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



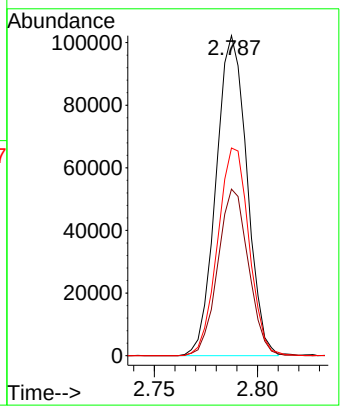


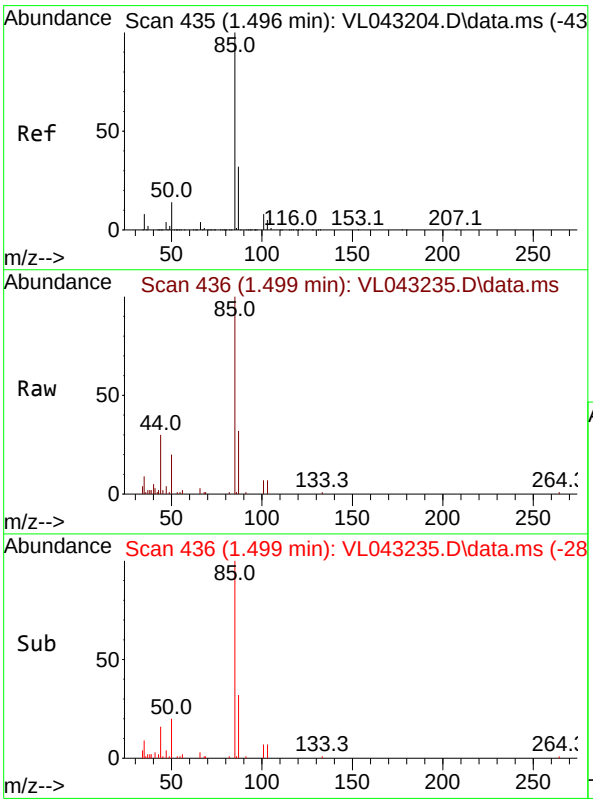
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 49 Resp: 106377

Ion	Ratio	Lower	Upper
49	100		
128	51.6	23.0	69.0
130	66.0	29.9	89.7

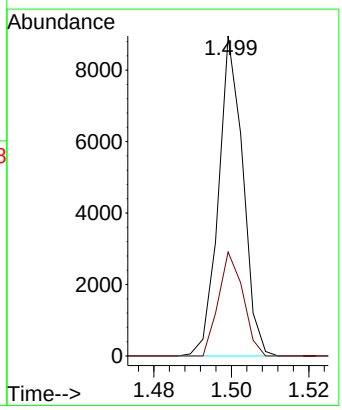


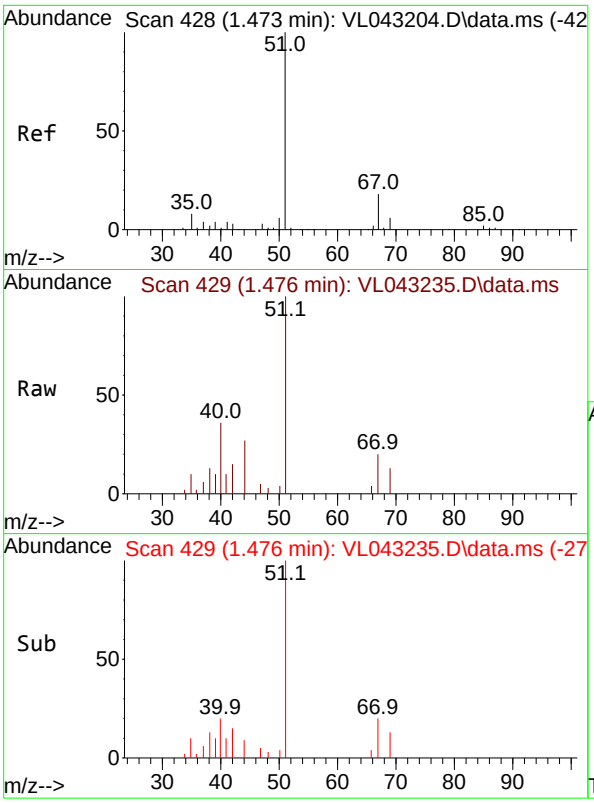


#2
Dichlorodifluoromethane
Concen: 0.262 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 85 Resp: 3925

Ion	Ratio	Lower	Upper
85	100		
87	32.5	25.4	38.2



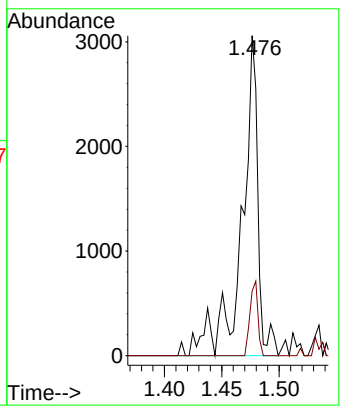


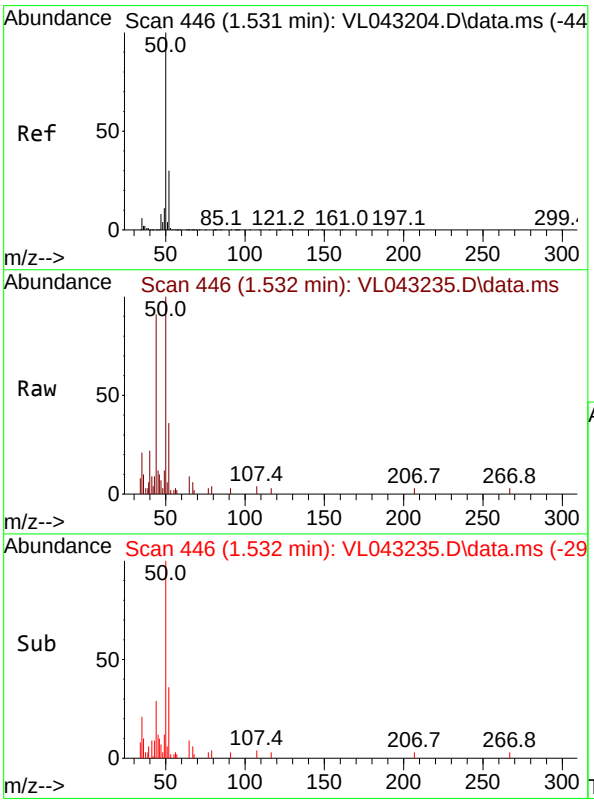
#3
Chlorodifluoromethane
Concen: 0.205 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 51 Resp: 3029

Ion	Ratio	Lower	Upper
51	100		
67	11.2	14.9	22.3#

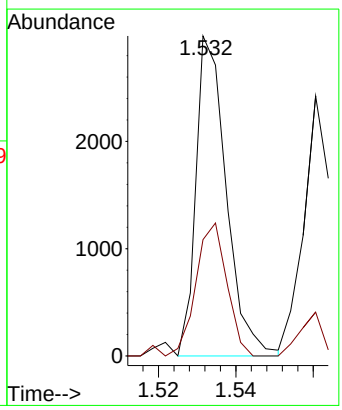


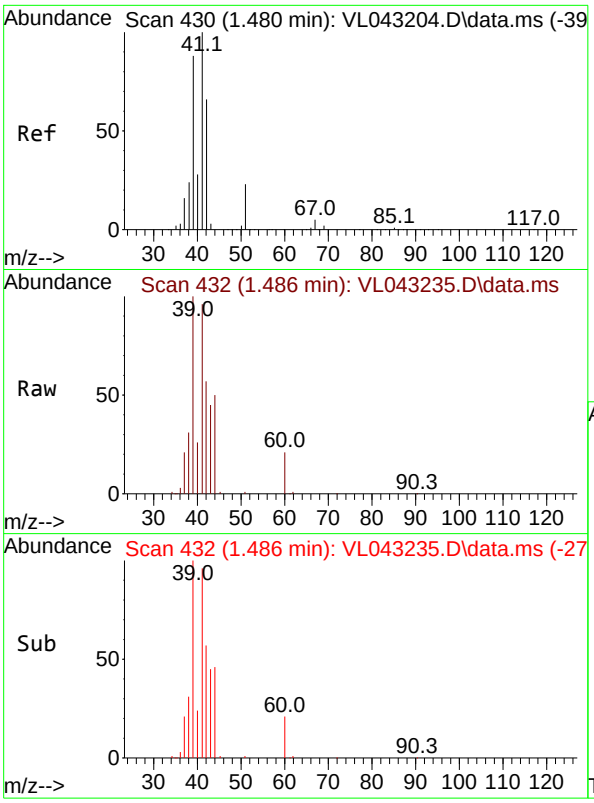


#4
Chloromethane
Concen: 0.289 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 50 Resp: 1622

Ion	Ratio	Lower	Upper
50	100		
52	36.4	24.1	36.1#



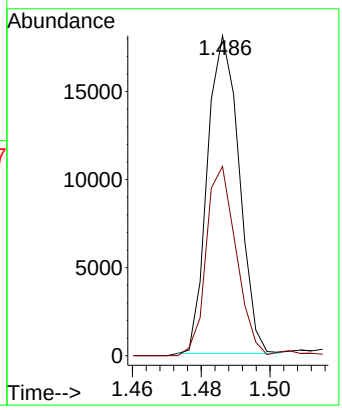


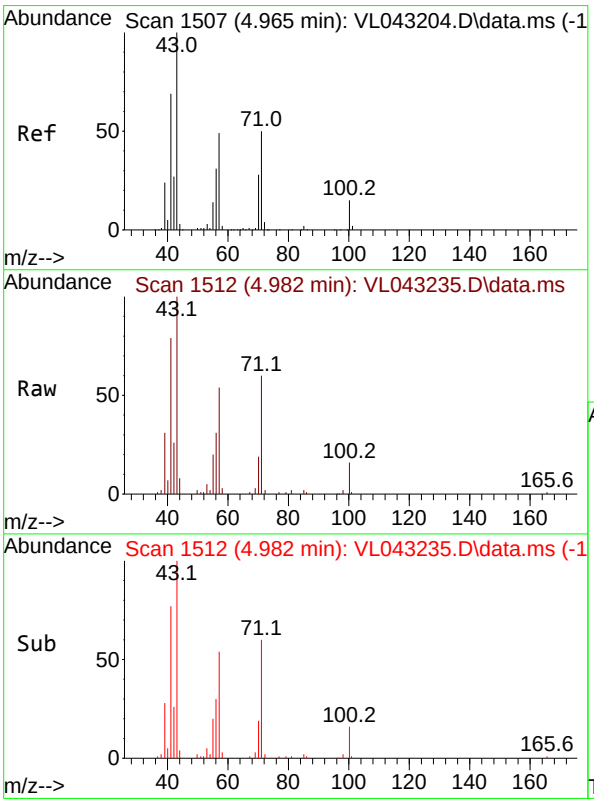
#9
Propene
Concen: 1.839 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 41 Resp: 11523

Ion	Ratio	Lower	Upper
41	100		
42	59.0	3.7	5.5#

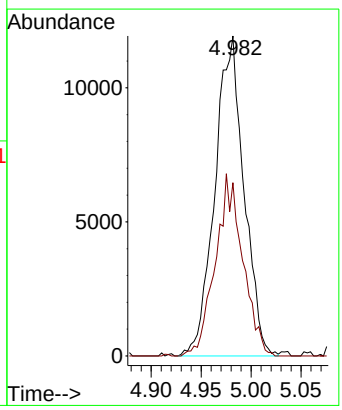


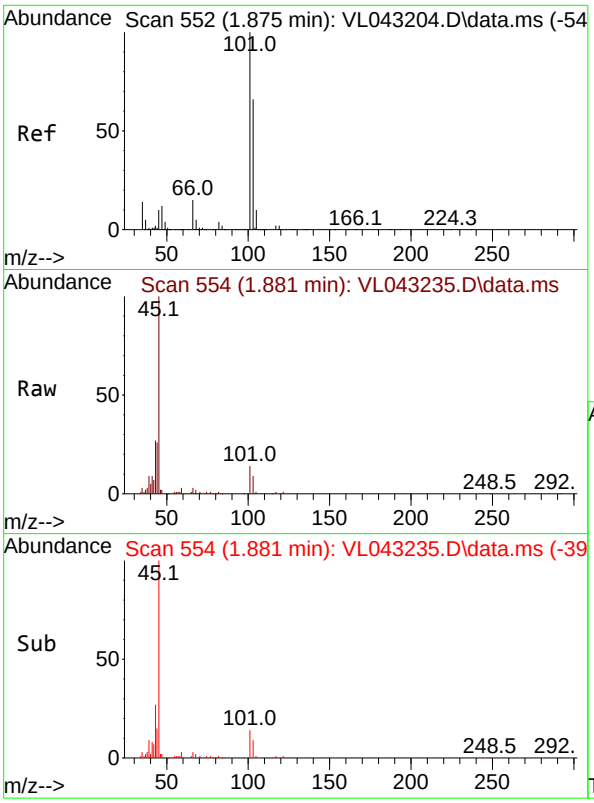


#10
Heptane
Concen: 1.295 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.016 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 43 Resp: 24157

Ion	Ratio	Lower	Upper
43	100		
57	53.5	39.7	59.5



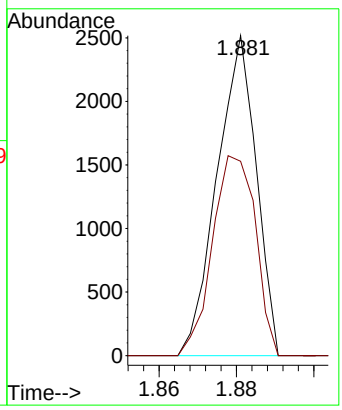


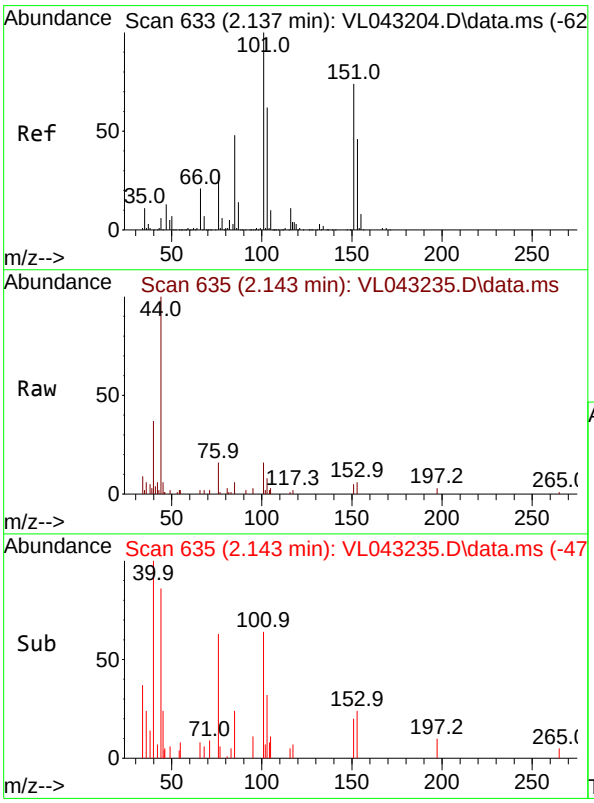
#11
Trichlorofluoromethane
Concen: 0.122 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion:101 Resp: 1771

Ion	Ratio	Lower	Upper
101	100		
103	60.7	52.6	79.0

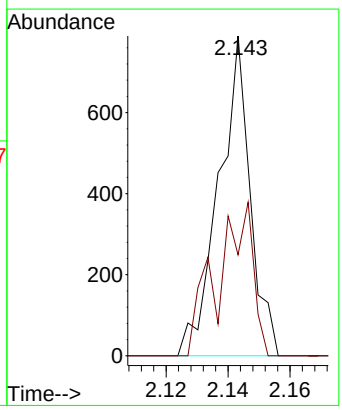


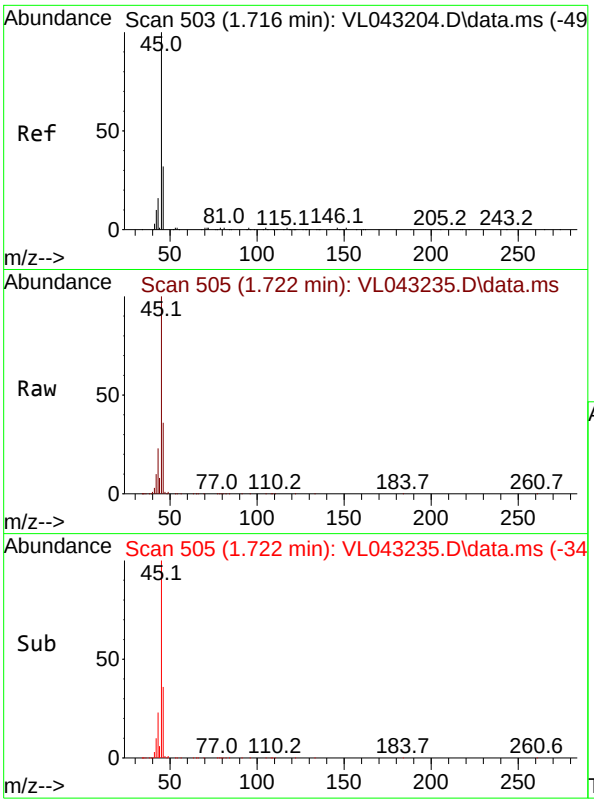


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.049 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:101 Resp: 556

Ion	Ratio	Lower	Upper
101	100		
151	54.7	59.2	88.8#



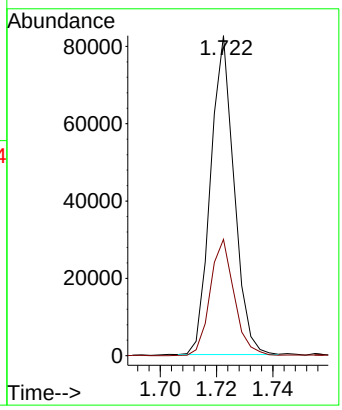


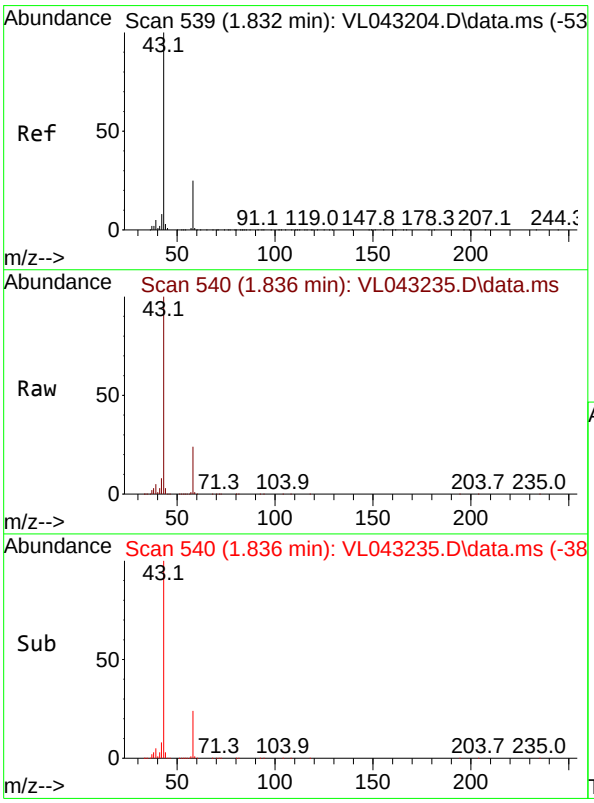
#13
Ethanol
Concen: 21.731 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 45 Resp: 47879

Ion	Ratio	Lower	Upper
45	100		
46	37.8	15.0	59.8

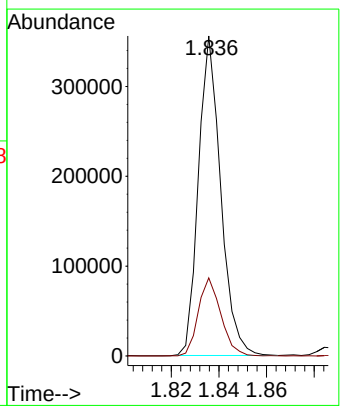


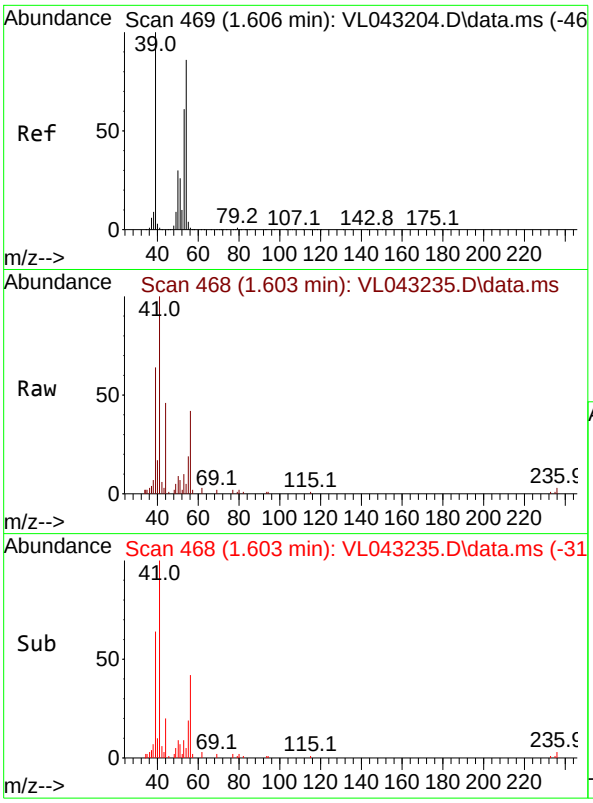


#15
Acetone
Concen: 15.596 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 43 Resp: 230501

Ion	Ratio	Lower	Upper
43	100		
58	24.8	20.7	31.1



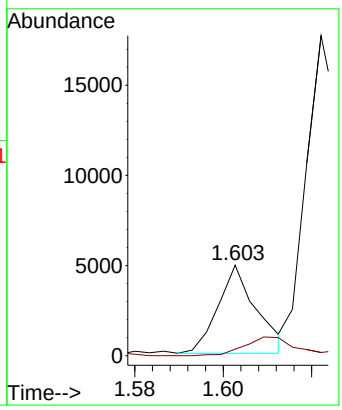


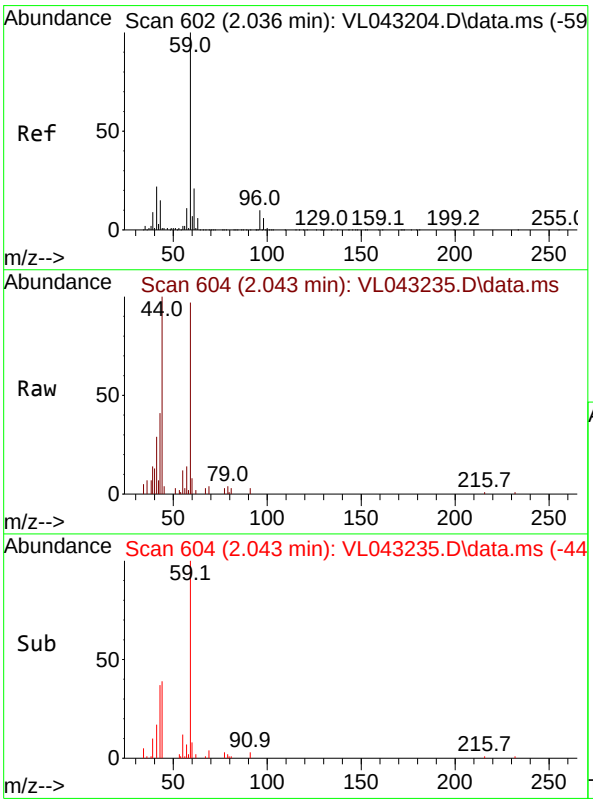
#16
1,3-Butadiene
Concen: 0.446 ppbv
RT: 1.603 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 39 Resp: 2936

Ion	Ratio	Lower	Upper
39	100		
54	42.1	59.4	89.2#

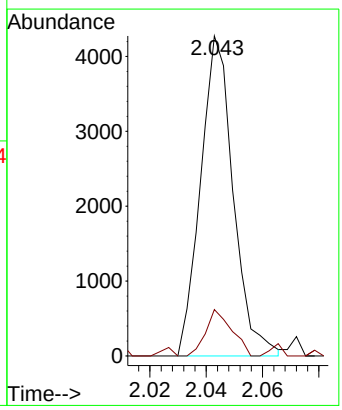


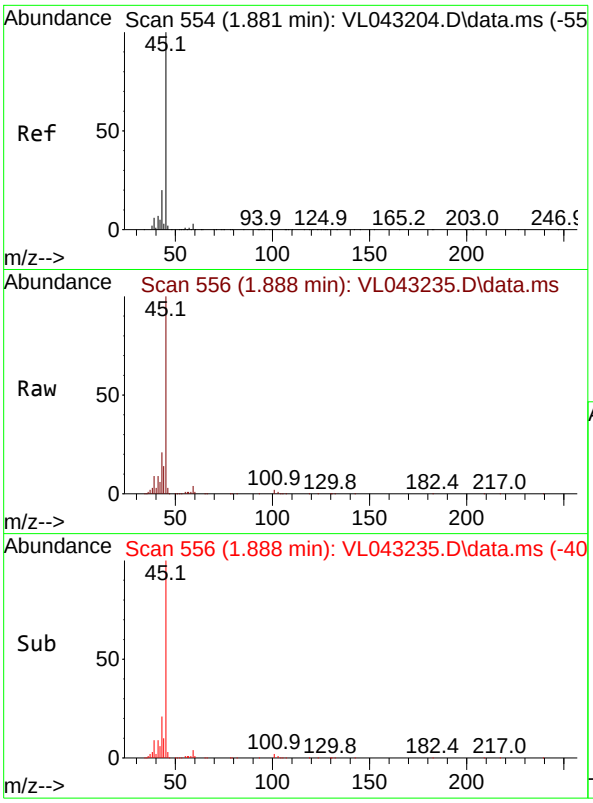


#17
tert-Butyl alcohol
Concen: 0.177 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 59 Resp: 3443

Ion	Ratio	Lower	Upper
59	100		
57	14.8	9.0	13.4#



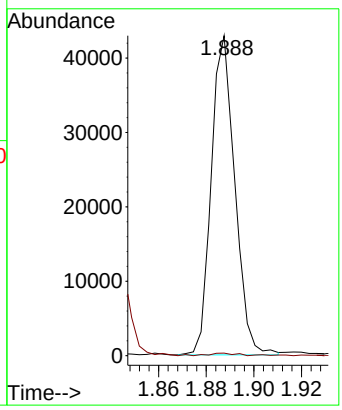


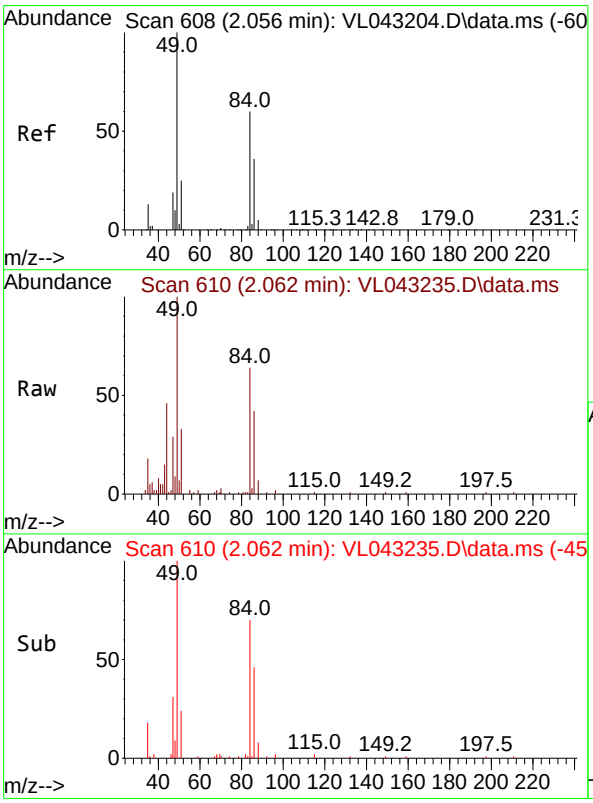
#19
Isopropyl Alcohol
Concen: 3.530 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 45 Resp: 29482

Ion	Ratio	Lower	Upper
45	100		
58	194.3	31.3	46.9#

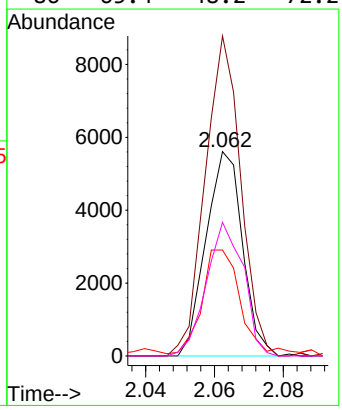


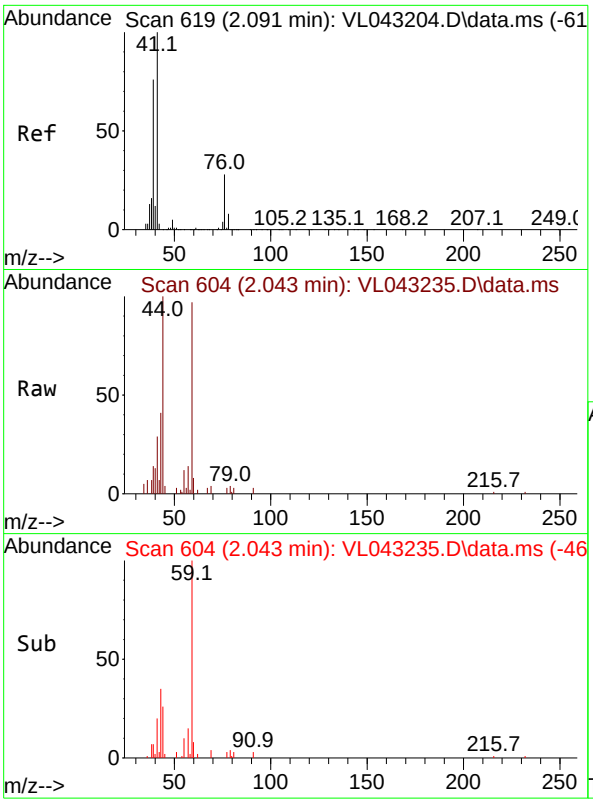


#20
Methylene Chloride
Concen: 0.180 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 84 Resp: 4140

Ion	Ratio	Lower	Upper
84	100		
49	156.6	132.9	199.3
51	50.0	34.8	52.2
86	65.4	48.2	72.2



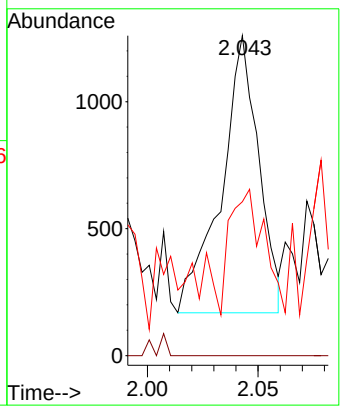


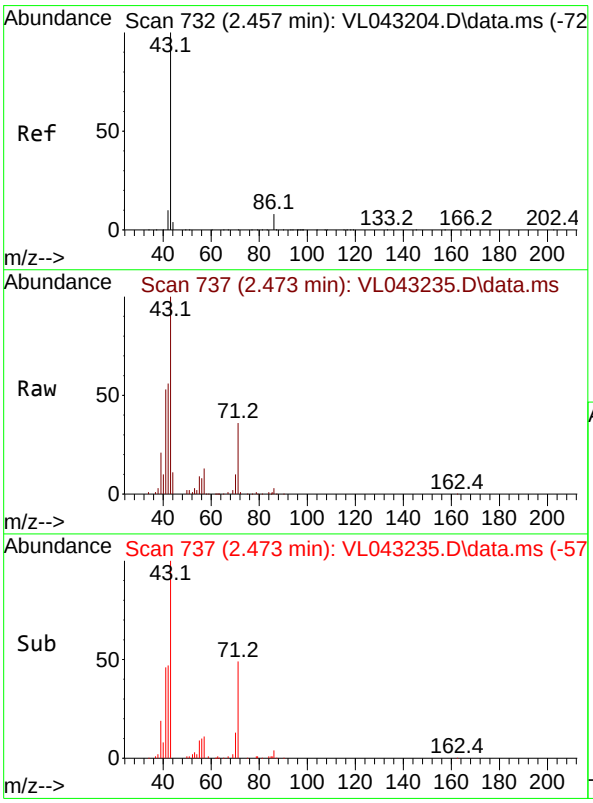
#21
Allyl Chloride
Concen: 0.130 ppbv
RT: 2.043 min Scan# 6(
Delta R.T. -0.048 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 41 Resp: 1291

Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.1	33.1#
39	53.0	61.0	91.4#

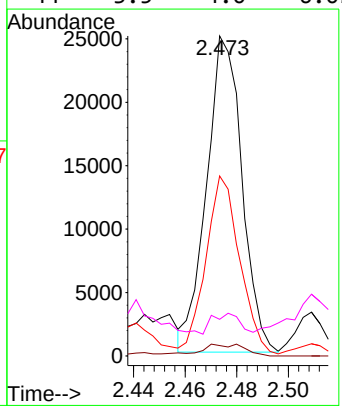


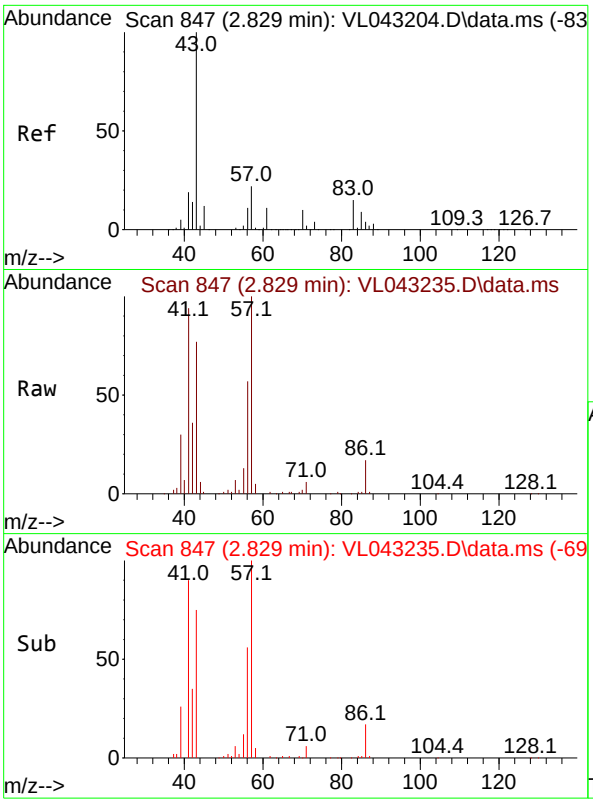


#23
Vinyl Acetate
Concen: 1.332 ppbv
RT: 2.473 min Scan# 737
Delta R.T. 0.016 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 43 Resp: 23758

Ion	Ratio	Lower	Upper
43	100		
86	3.3	6.2	9.2#
42	56.4	8.0	12.0#
44	3.5	4.0	6.0#



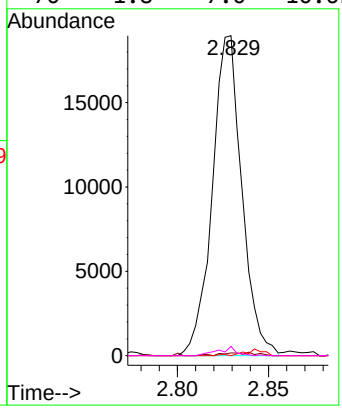


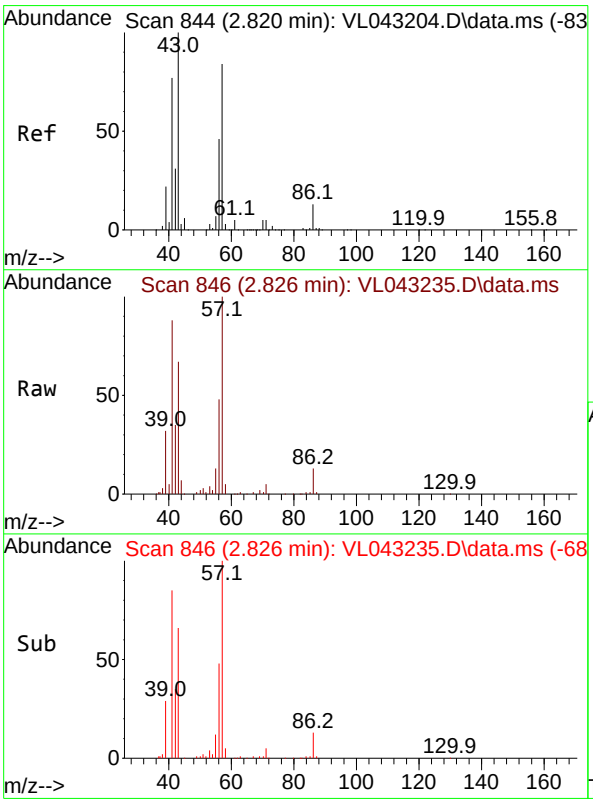
#25
Ethyl Acetate
Concen: 0.672 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 43 Resp: 21436

Ion	Ratio	Lower	Upper
43	100		
45	1.0	8.1	12.1#
61	1.3	7.0	10.4#
70	1.8	7.0	10.6#

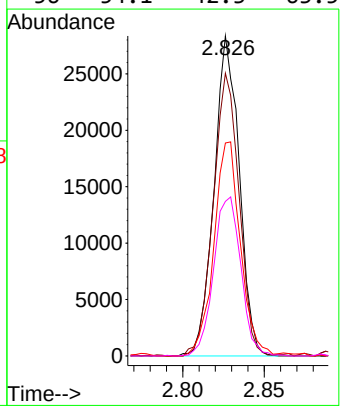


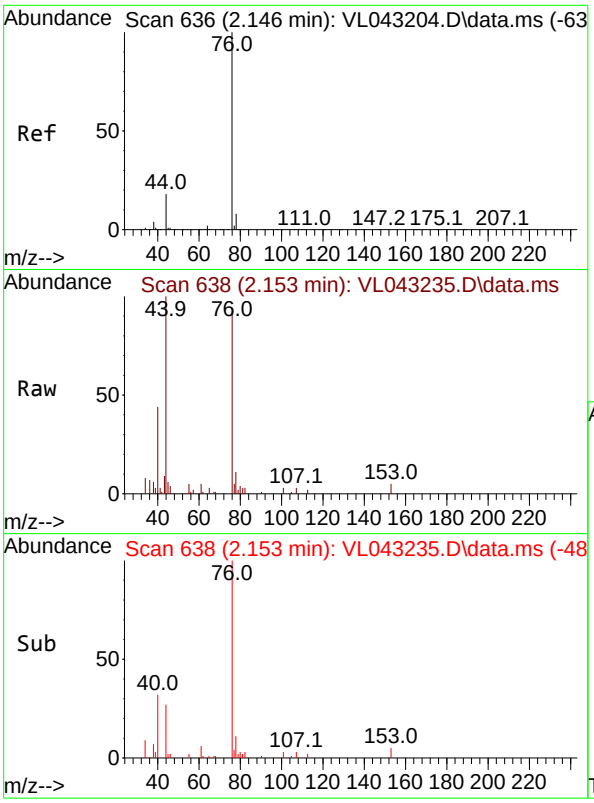


#26
Hexane
Concen: 2.174 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 57 Resp: 30379

Ion	Ratio	Lower	Upper
57	100		
41	91.0	74.6	111.8
43	71.4	179.0	268.4#
56	54.1	42.3	63.5



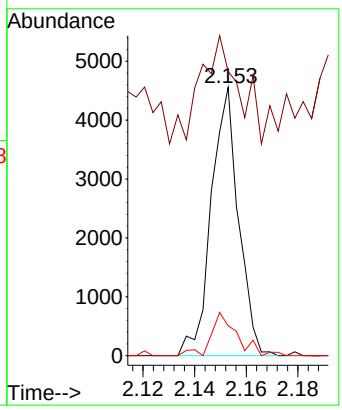


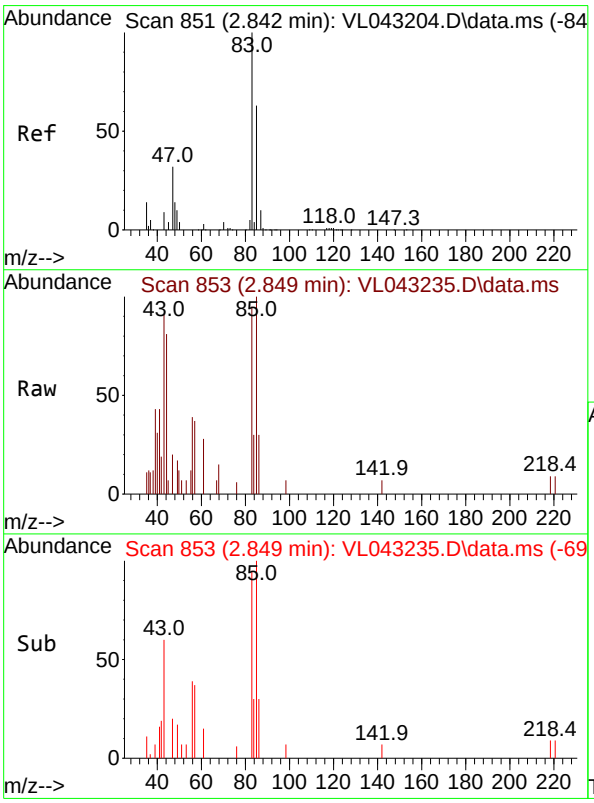
#27
Carbon Disulfide
Concen: 0.235 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 76 Resp: 3349

Ion	Ratio	Lower	Upper
76	100		
44	53.5	16.1	24.1#
78	15.4	9.6	14.4#

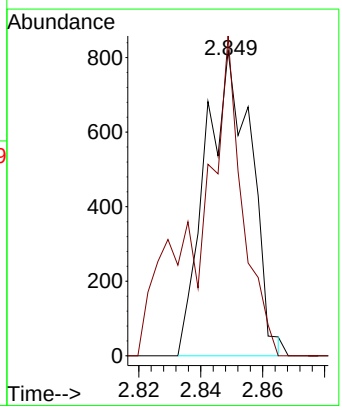


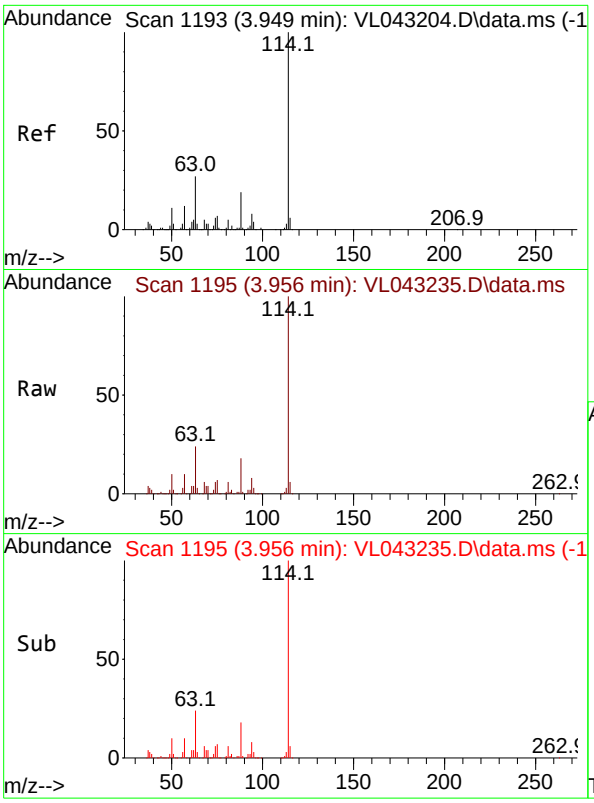


#29
Chloroform
Concen: 0.042 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 83 Resp: 838

Ion	Ratio	Lower	Upper
83	100		
85	104.8	50.5	75.7#



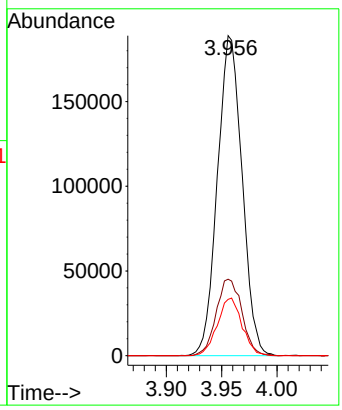


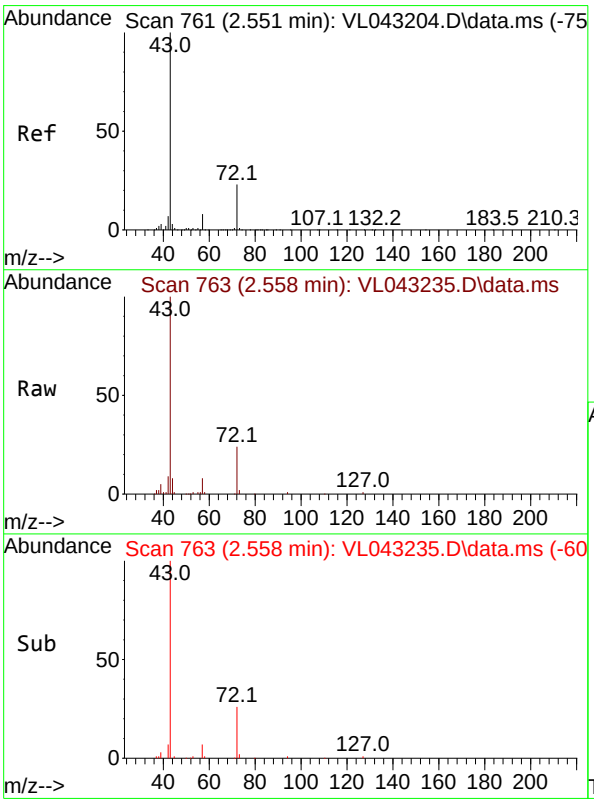
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion:114 Resp: 292792

Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.0	31.6
88	18.0	14.9	22.3

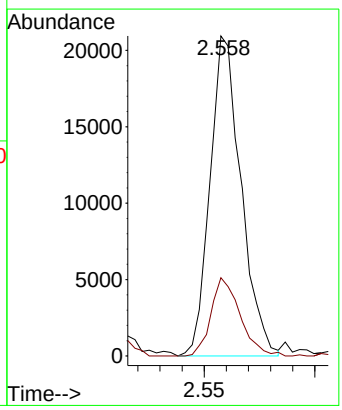


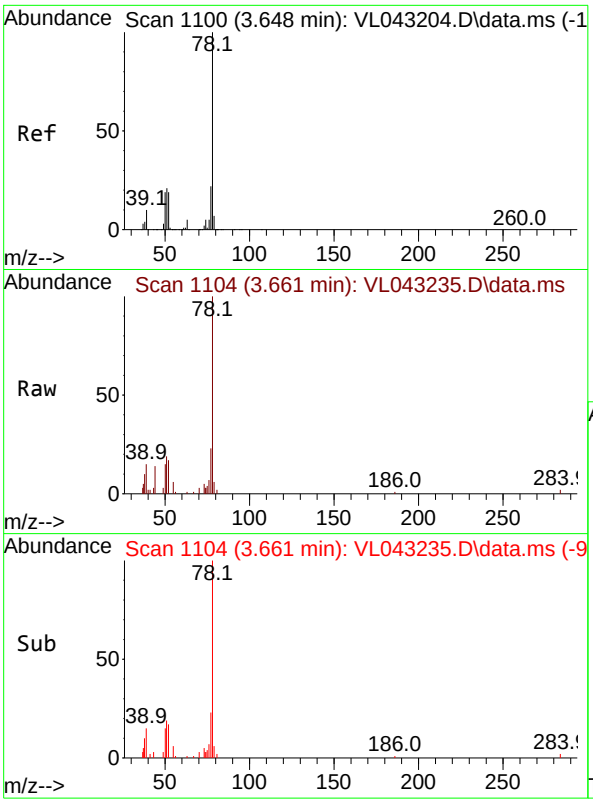


#34
2-Butanone
Concen: 0.988 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 43 Resp: 20420

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.1	27.1



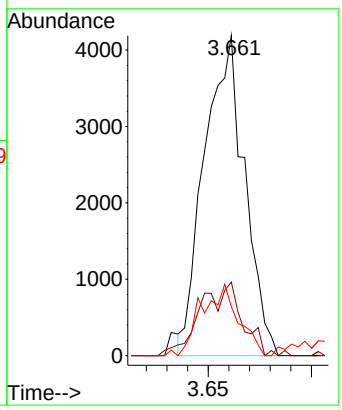


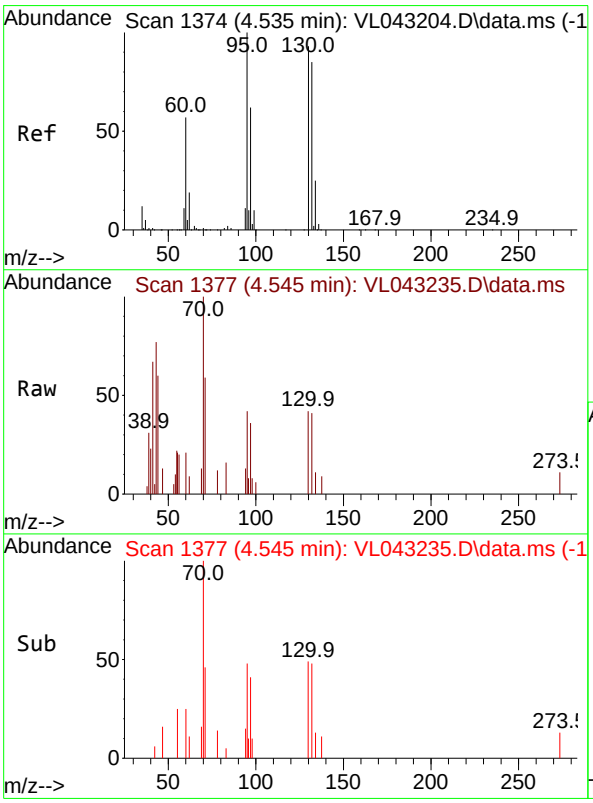
#36
Benzene
Concen: 0.202 ppbv
RT: 3.661 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 78 Resp: 5671

Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.5	26.3
50	13.8	15.5	23.3#

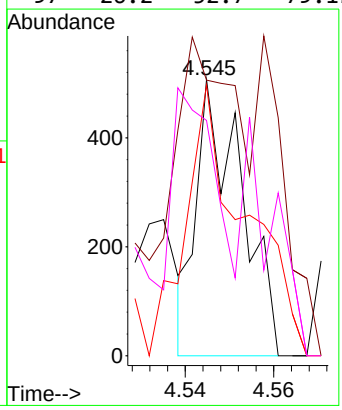


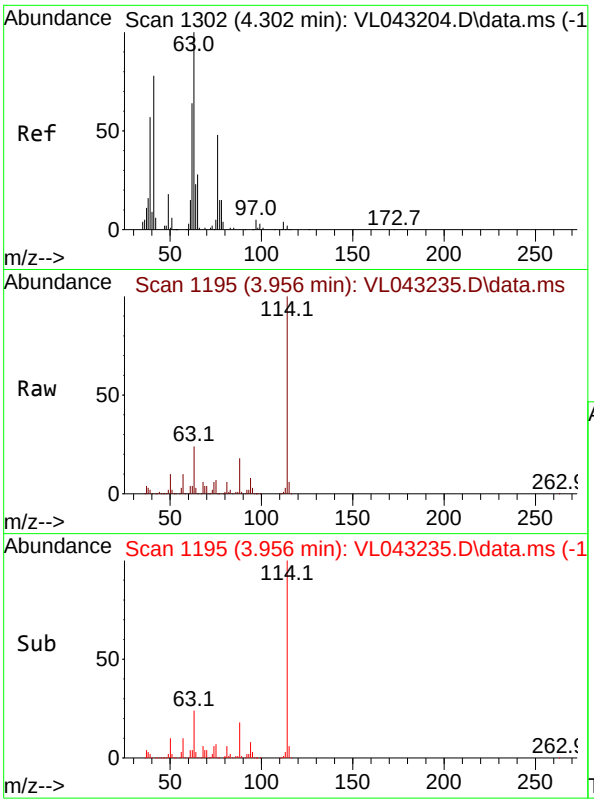


#38
Trichloroethene
Concen: 0.032 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.010 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:130 Resp: 355

Ion	Ratio	Lower	Upper
130	100		
95	18.1	85.7	128.5#
132	72.0	73.4	110.0#
97	26.2	52.7	79.1#



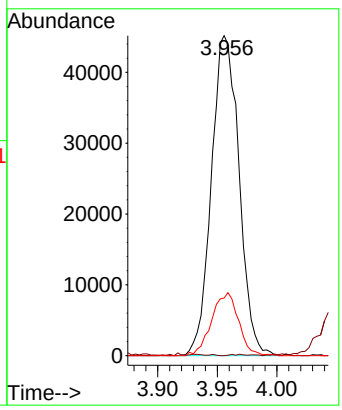


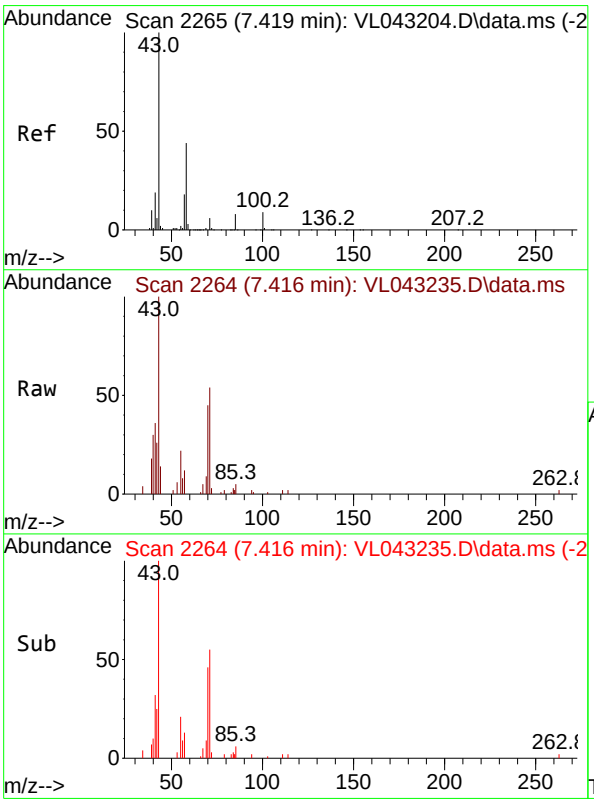
#39
1,2-Dichloropropane
Concen: 7.096 ppbv
RT: 3.956 min Scan# 1
Delta R.T. -0.346 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 63 Resp: 72824

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.6	93.8#
62	18.0	51.0	76.6#

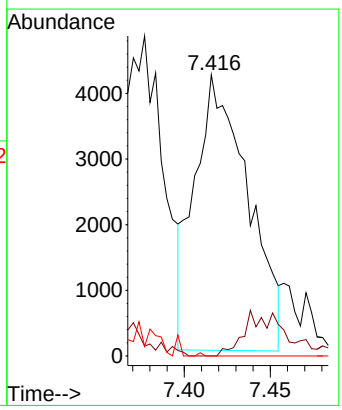


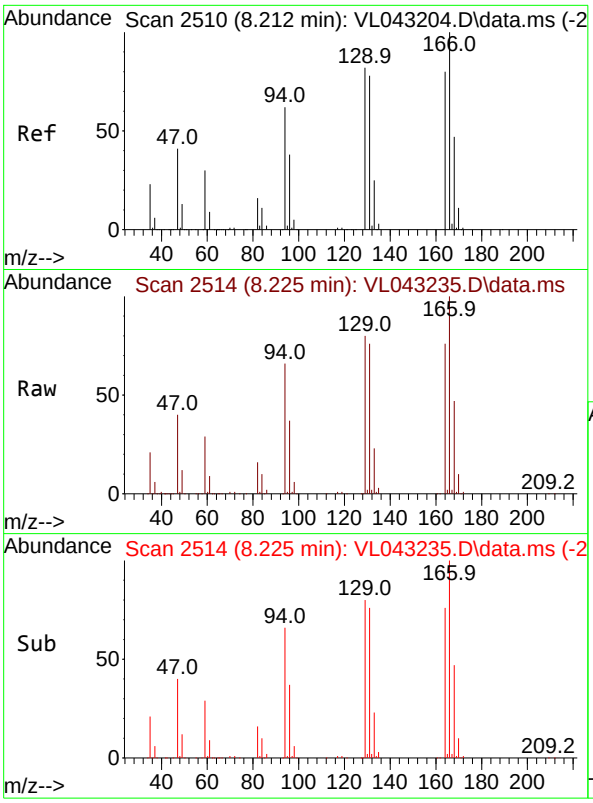


#51
2-Hexanone
Concen: 0.399 ppbv
RT: 7.416 min Scan# 2264
Delta R.T. -0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 43 Resp: 9019

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



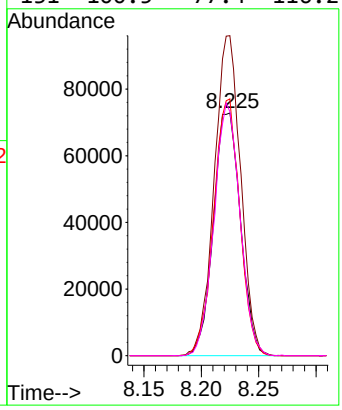


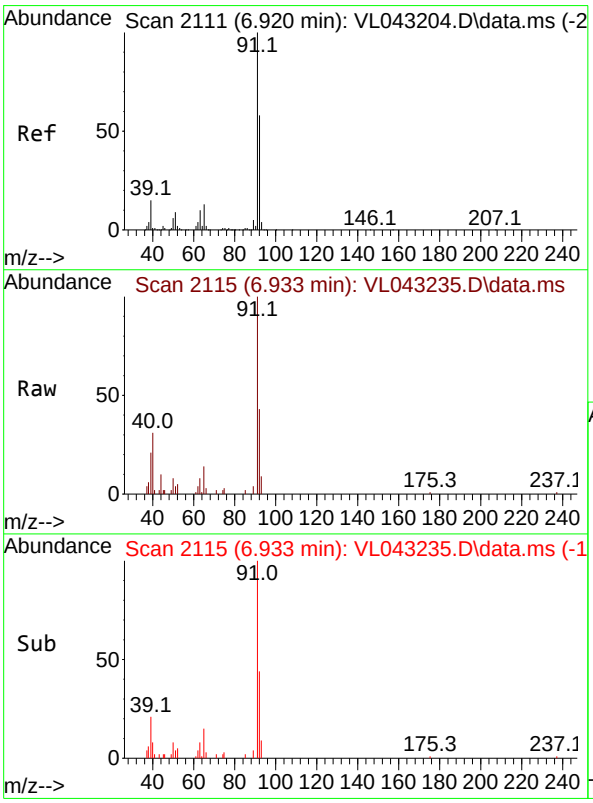
#52
Tetrachloroethene
Concen: 11.475 ppbv
RT: 8.225 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion:164 Resp: 119688

Ion	Ratio	Lower	Upper
164	100		
166	131.8	99.4	149.2
129	105.8	81.8	122.8
131	100.5	77.4	116.2

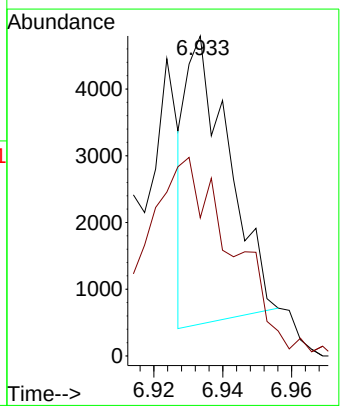


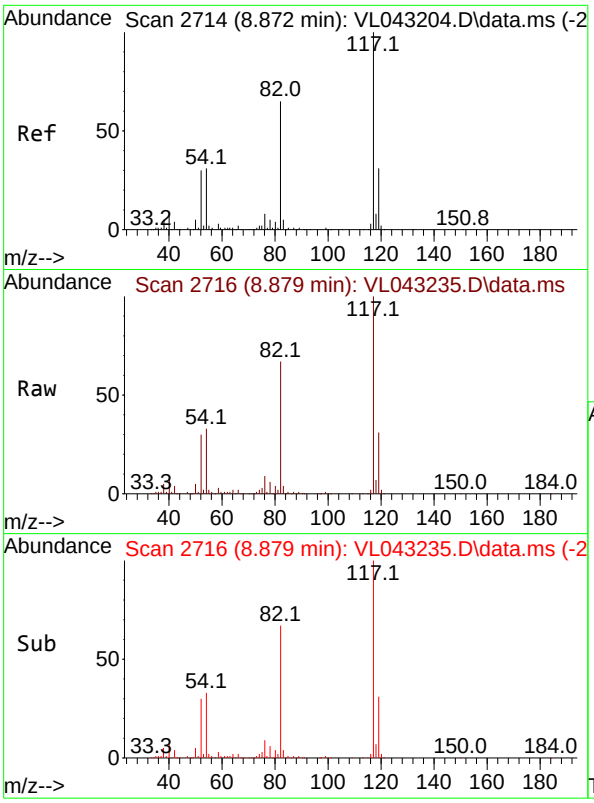


#53
Toluene
Concen: 0.112 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.013 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 91 Resp: 3706

Ion	Ratio	Lower	Upper
91	100		
92	149.8	47.4	71.0#



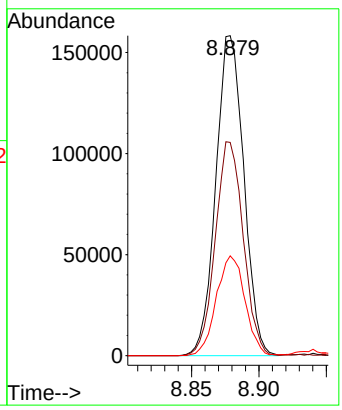


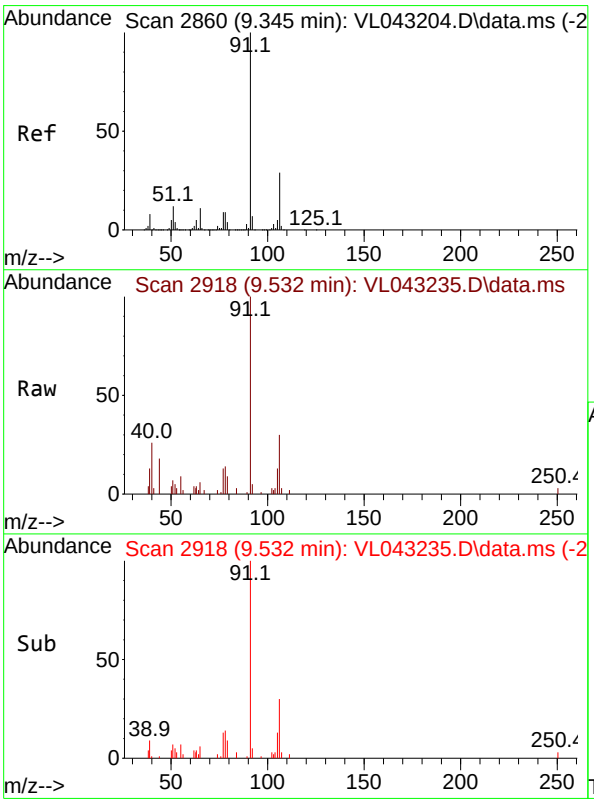
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion:117 Resp: 229139

Ion	Ratio	Lower	Upper
117	100		
82	66.8	56.1	84.1
119	32.0	25.0	37.6

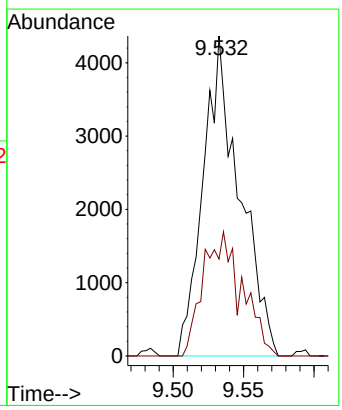


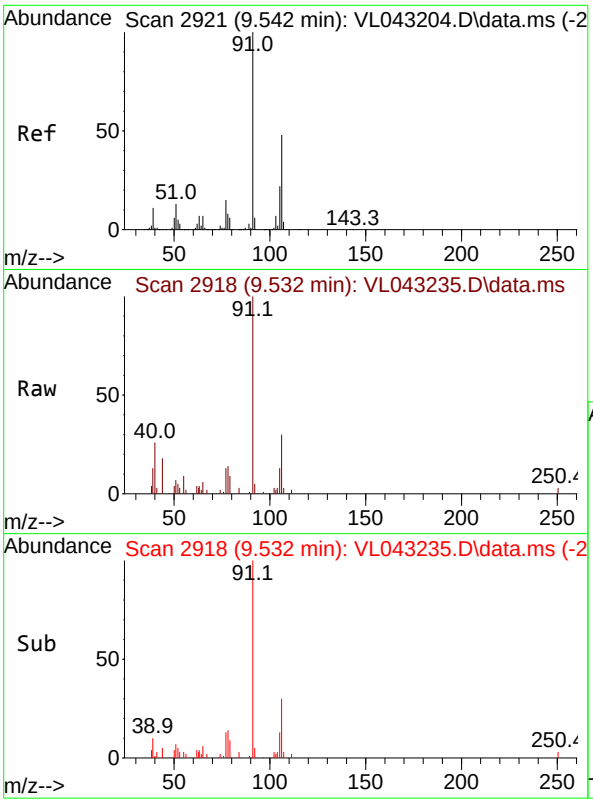


#58
Ethyl Benzene
Concen: 0.177 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. 0.188 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 91 Resp: 7823

Ion	Ratio	Lower	Upper
91	100		
106	30.3	22.8	34.2



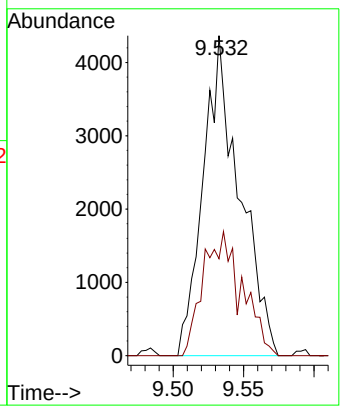


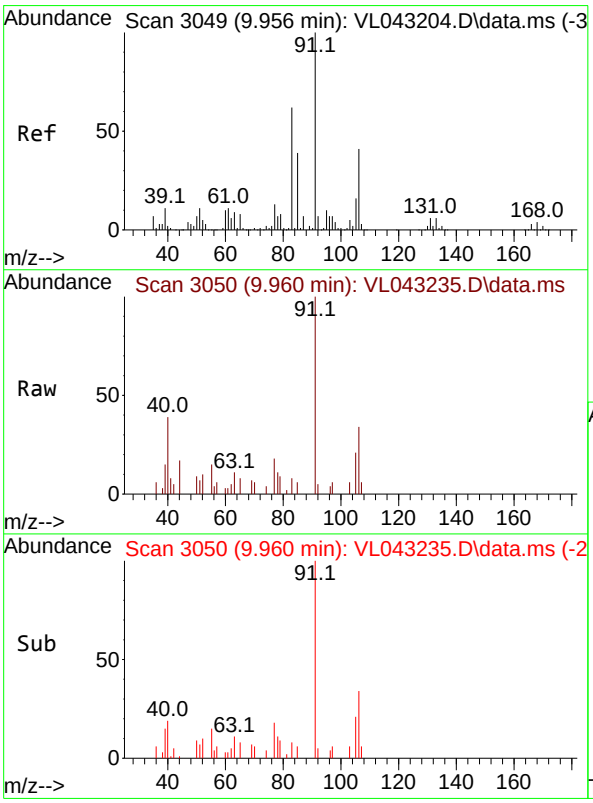
#59
m/p-Xylene
Concen: 0.221 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 91 Resp: 7823

Ion	Ratio	Lower	Upper
91	100		
106	41.4	36.1	54.1

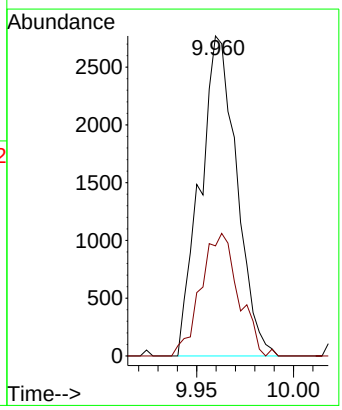


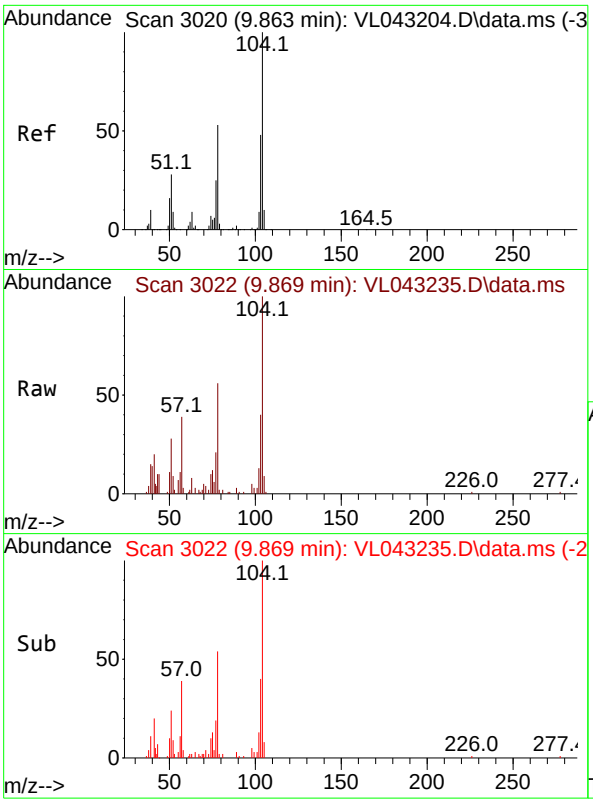


#60
o-Xylene
Concen: 0.103 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 91 Resp: 3639

Ion	Ratio	Lower	Upper
91	100		
106	39.5	20.9	62.8



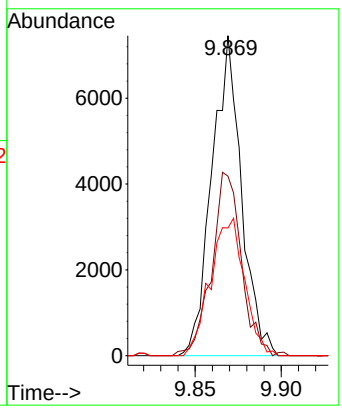


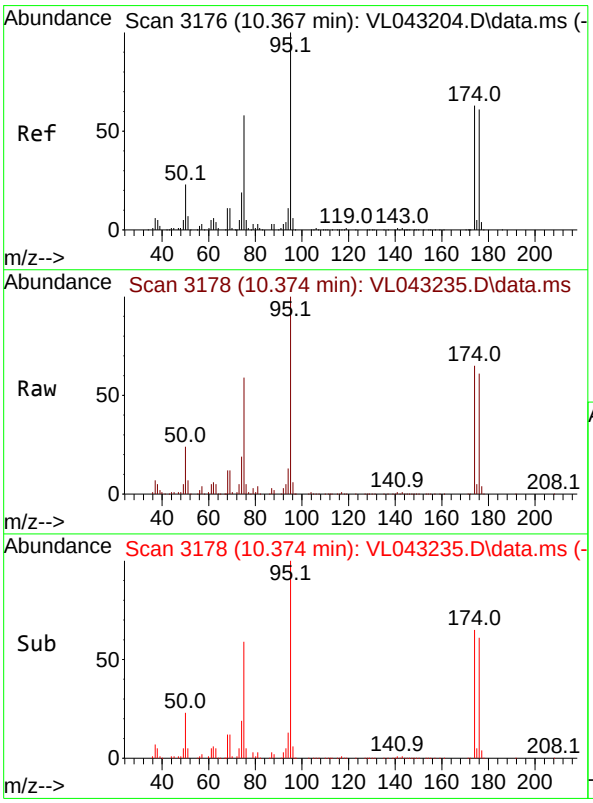
#61
Styrene
Concen: 0.576 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion:104 Resp: 8898

Ion	Ratio	Lower	Upper
104	100		
78	57.8	42.1	63.1
103	49.8	37.2	55.8

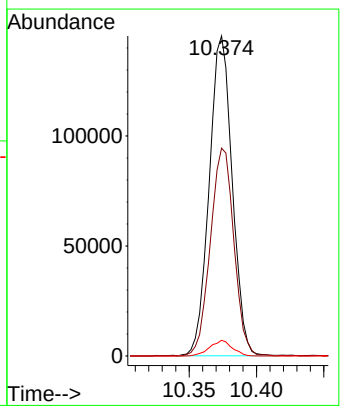


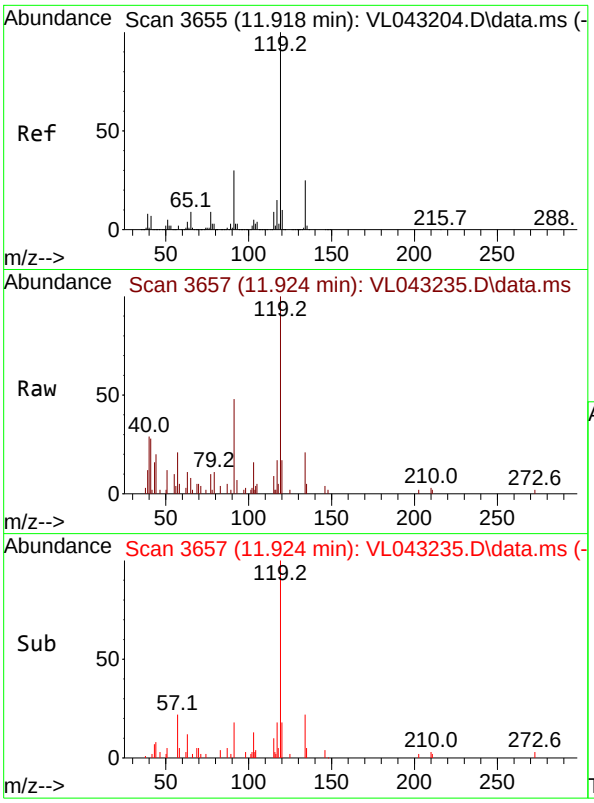


#68
1-Bromo-4-Fluorobenzene
Concen: 10.267 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 95 Resp: 172437

Ion	Ratio	Lower	Upper
95	100		
174	66.7	50.2	75.2
175	4.7	4.1	6.1



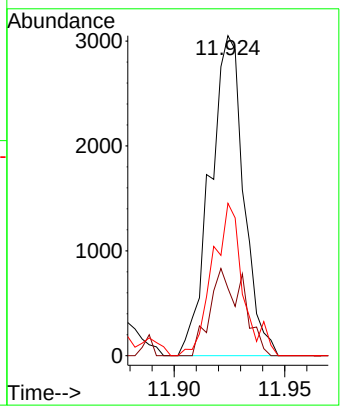


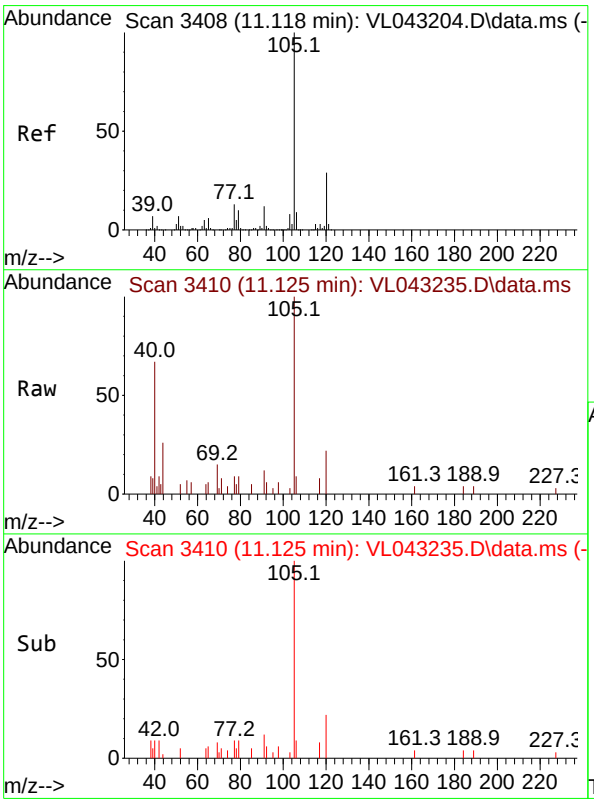
#69
p-Isopropyltoluene
Concen: 0.048 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion:119 Resp: 3228

Ion	Ratio	Lower	Upper
119	100		
134	26.7	20.2	30.2
91	48.6	23.8	35.8#

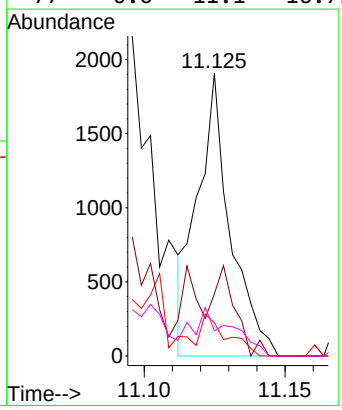


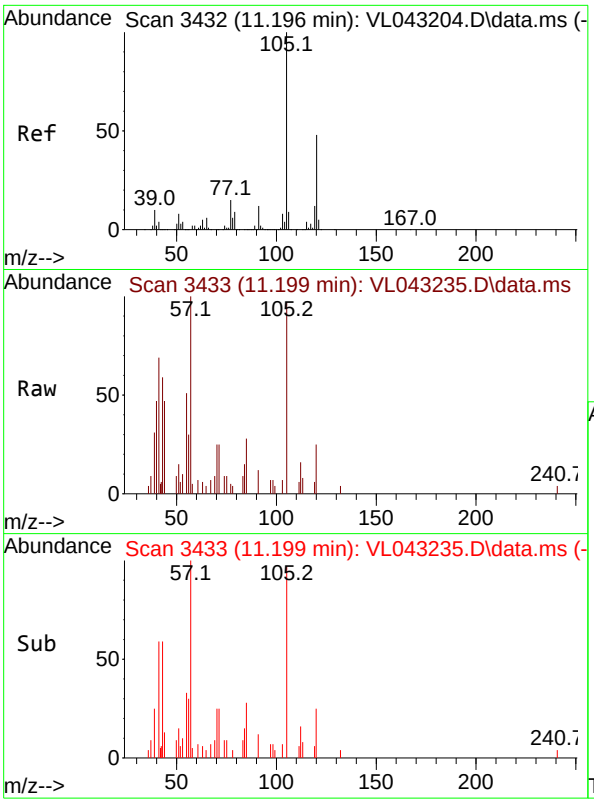


#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:105 Resp: 1550

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.8	35.8#
91	0.0	10.3	15.5#
77	0.0	11.1	16.7#



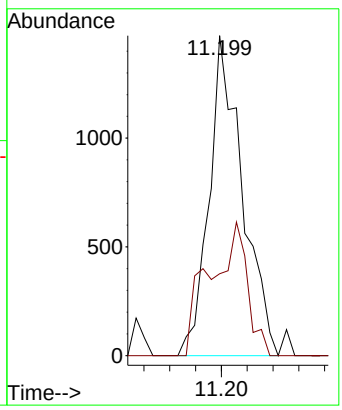


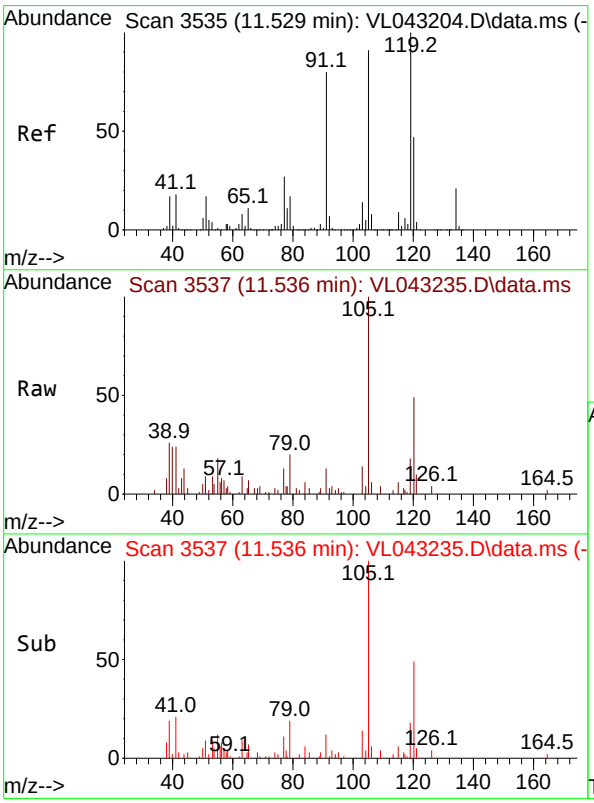
#73
1,3,5-Trimethylbenzene
Concen: 0.036 ppbv
RT: 11.199 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion:105 Resp: 1315

Ion	Ratio	Lower	Upper
105	100		
120	25.6	38.6	57.8#

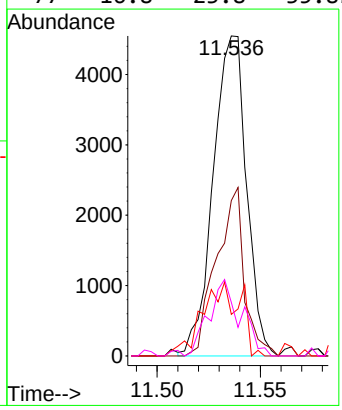


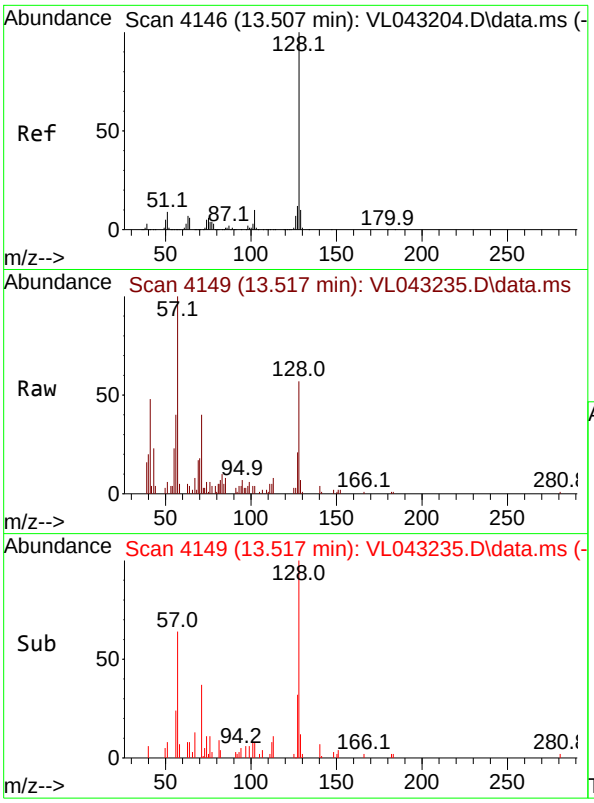


#74
1,2,4-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:105 Resp: 5098

Ion	Ratio	Lower	Upper
105	100		
120	48.6	41.7	62.5
91	13.0	70.0	105.0#
77	16.8	23.8	35.8#



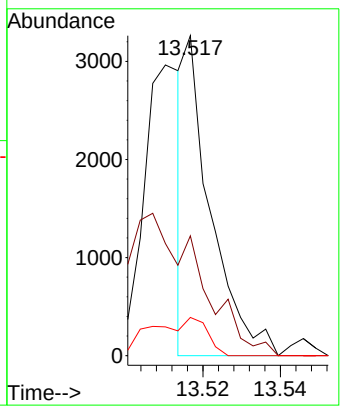


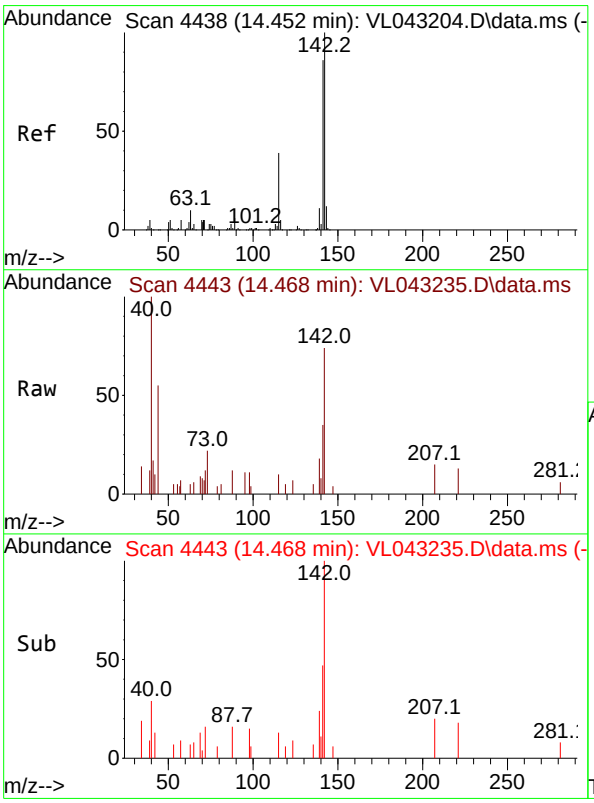
#79
Naphthalene
Concen: 0.043 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion:128 Resp: 1520

Ion	Ratio	Lower	Upper
128	100		
127	37.5	9.9	14.9#
129	12.0	8.4	12.6

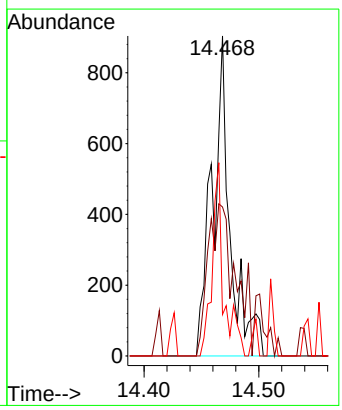


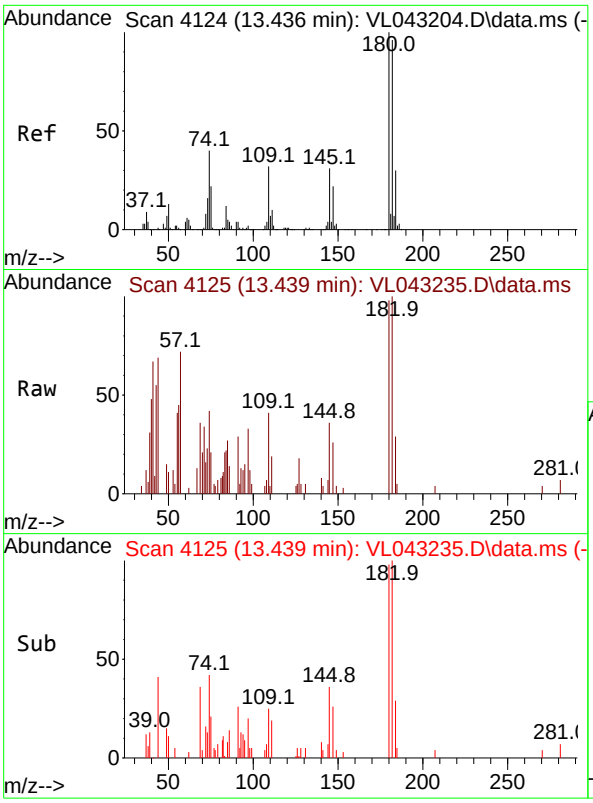


#80
Naphthalene,2-methyl-
Concen: 0.106 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.016 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:142 Resp: 978

Ion	Ratio	Lower	Upper
142	100		
141	83.7	67.1	100.7
115	47.2	31.9	47.9



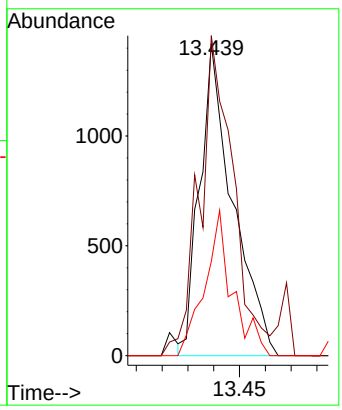


#81
1,2,4-Trichlorobenzene
Concen: 0.081 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion:180 Resp: 1269

Ion	Ratio	Lower	Upper
180	100		
182	111.1	77.4	116.2
184	38.7	24.2	36.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043236.D
Acq On : 19 Nov 2025 13:17
Operator : SY/MD
Sample : Q3626-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Quant Time: Nov 20 00:04:26 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	105026	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	292365	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	227868	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.371	95	164621	9.856	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3866	0.261	ppbv		98
3) Chlorodifluoromethane	1.476	51	3836	0.263	ppbv	#	78
4) Chloromethane	1.531	50	507	0.092	ppbv		91
9) Propene	1.486	41	5369	0.868	ppbv	#	1
10) Heptane	4.978	43	1685	0.092	ppbv	#	75
11) Trichlorofluoromethane	1.878	101	5081	0.354	ppbv		91
12) 1,1,2-Trichlorotrifluo...	2.140	101	389	0.035	ppbv	#	40
13) Ethanol	1.719	45	12902	5.931	ppbv		96
15) Acetone	1.836	43	116398	7.977	ppbv		98
16) 1,3-Butadiene	1.603	39	1886	0.290	ppbv	#	12
17) tert-Butyl alcohol	1.884	59	1973	0.103	ppbv		95
19) Isopropyl Alcohol	1.884	45	51704	6.271	ppbv	#	73
20) Methylene Chloride	2.062	84	8662	1.334	ppbv		92
23) Vinyl Acetate	2.451	43	1684	0.096	ppbv	#	58
25) Ethyl Acetate	2.823	43	7855	0.250	ppbv	#	84
26) Hexane	2.826	57	10226	0.741	ppbv	#	44
27) Carbon Disulfide	2.150	76	5334	0.379	ppbv	#	1
29) Chloroform	2.845	83	39446	2.011	ppbv		98
30) Cyclohexane	3.846	84	731	0.063	ppbv	#	1
34) 2-Butanone	2.557	43	5651	0.274	ppbv		95
36) Benzene	3.655	78	4112	0.147	ppbv		97
38) Trichloroethene	4.532	130	617	0.056	ppbv	#	57
39) 1,2-Dichloropropane	3.956	63	72302	7.055	ppbv	#	26
52) Tetrachloroethene	8.218	164	7582	0.728	ppbv		89
53) Toluene	6.927	91	4988	0.150	ppbv		97
58) Ethyl Benzene	9.348	91	1800	0.041	ppbv		97
59) m/p-Xylene	9.542	91	1102	0.031	ppbv	#	31
60) o-Xylene	9.960	91	1842	0.052	ppbv		91
61) Styrene	9.862	104	673	0.044	ppbv	#	28
74) 1,2,4-Trimethylbenzene	11.533	105	1982	0.051	ppbv	#	57

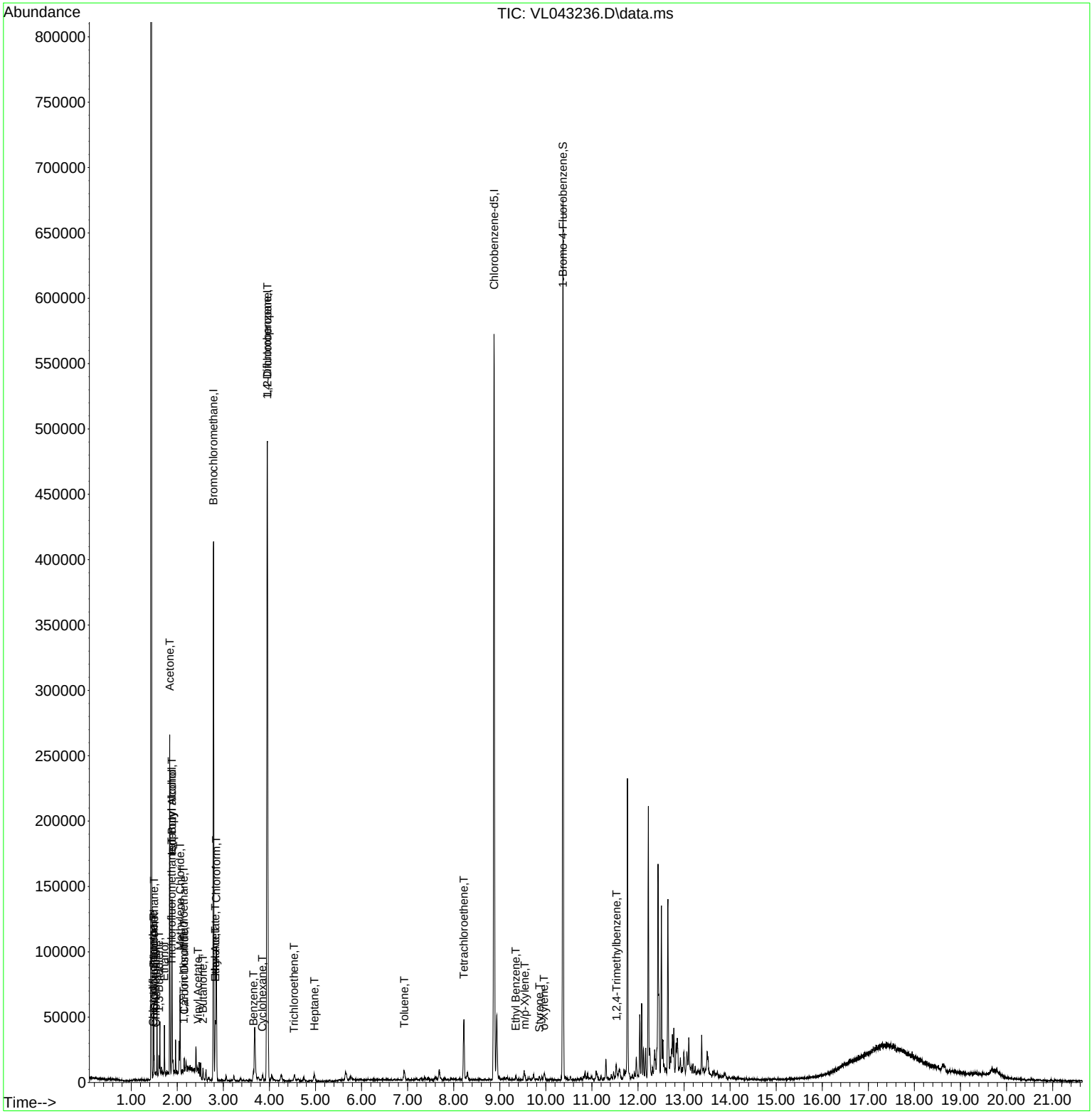
(#) = qualifier out of range (m) = manual integration (+) = signals summed

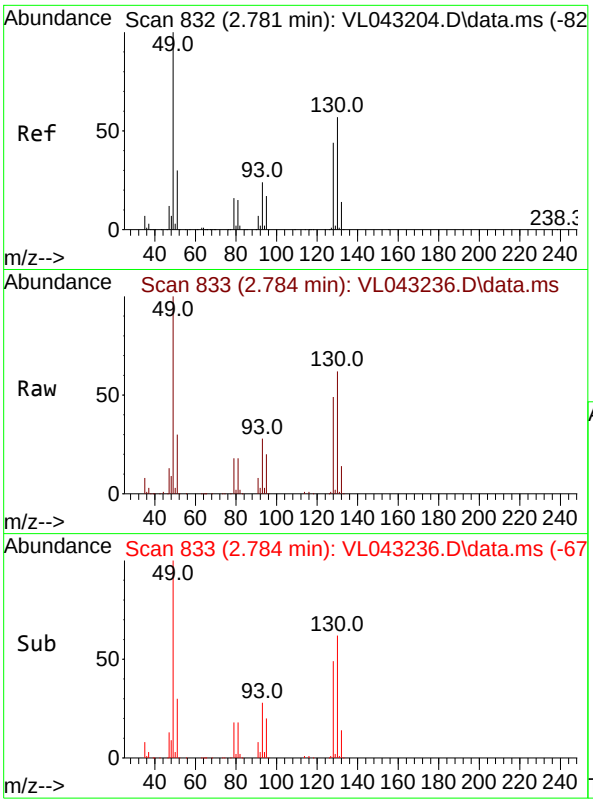
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043236.D
Acq On : 19 Nov 2025 13:17
Operator : SY/MD
Sample : Q3626-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Quant Time: Nov 20 00:04:26 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



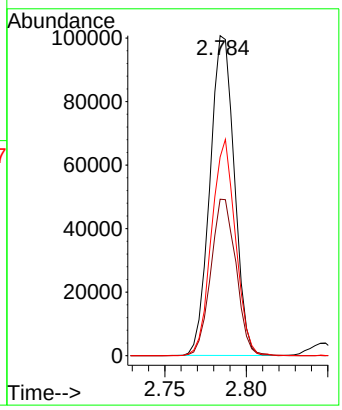


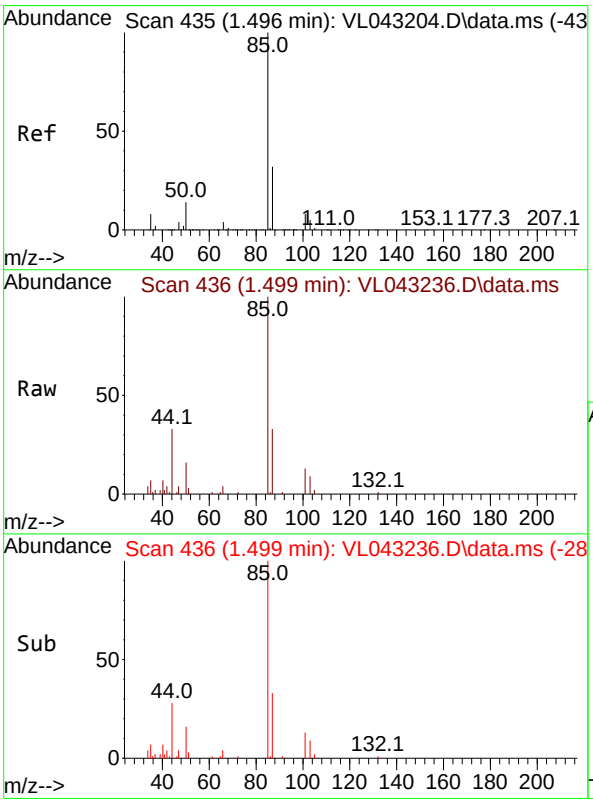
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 49 Resp: 105026

Ion	Ratio	Lower	Upper
49	100		
128	50.2	23.0	69.0
130	66.3	29.9	89.7

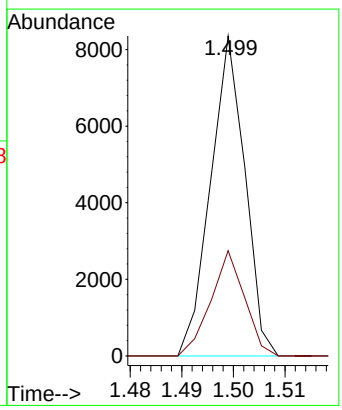


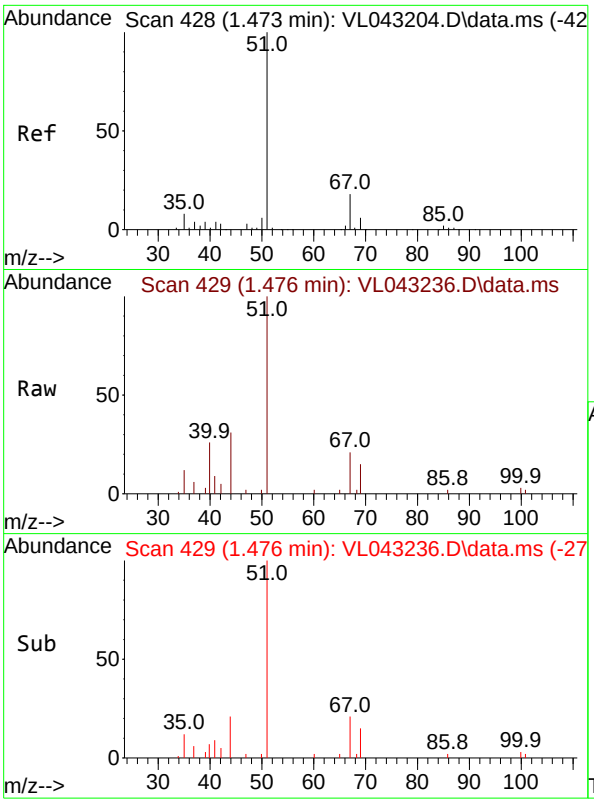


#2
Dichlorodifluoromethane
Concen: 0.261 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 85 Resp: 3866

Ion	Ratio	Lower	Upper
85	100		
87	32.9	25.4	38.2



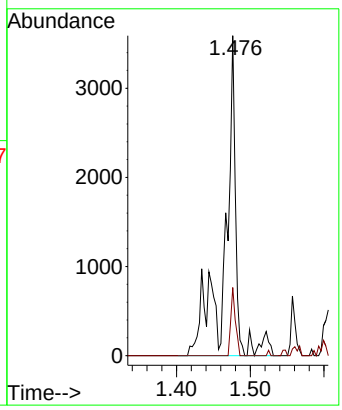


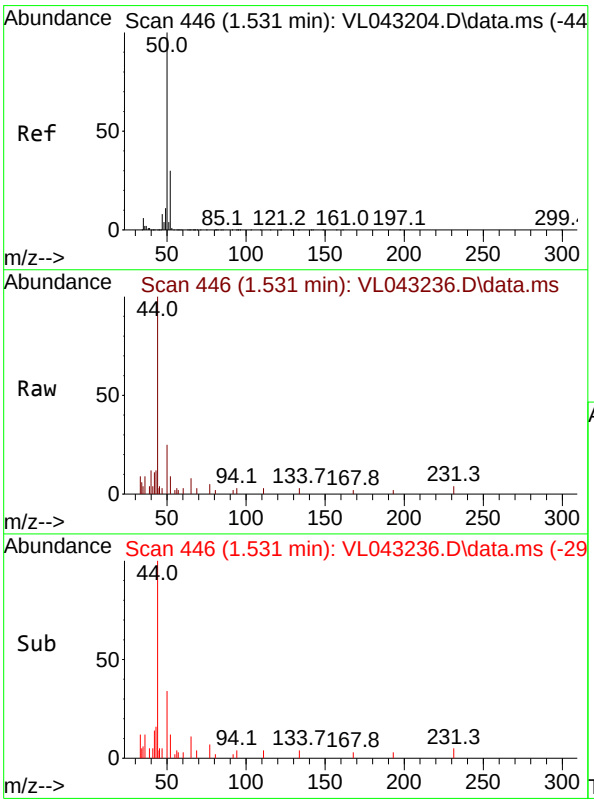
#3
Chlorodifluoromethane
Concen: 0.263 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 51 Resp: 3836

Ion	Ratio	Lower	Upper
51	100		
67	8.7	14.9	22.3#

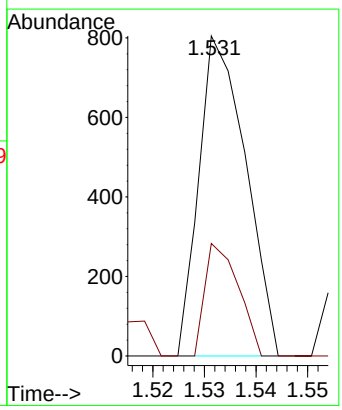


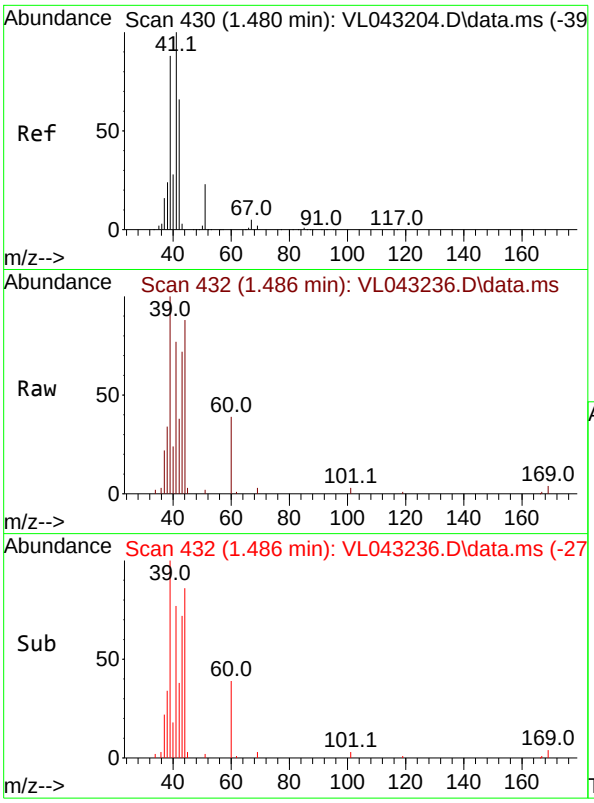


#4
Chloromethane
Concen: 0.092 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 50 Resp: 507

Ion	Ratio	Lower	Upper
50	100		
52	35.2	24.1	36.1



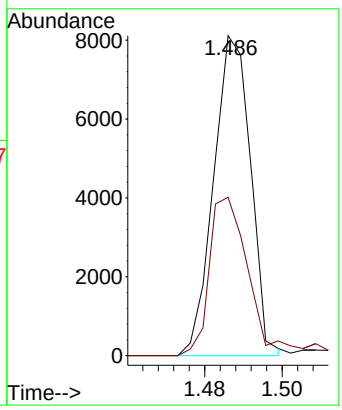


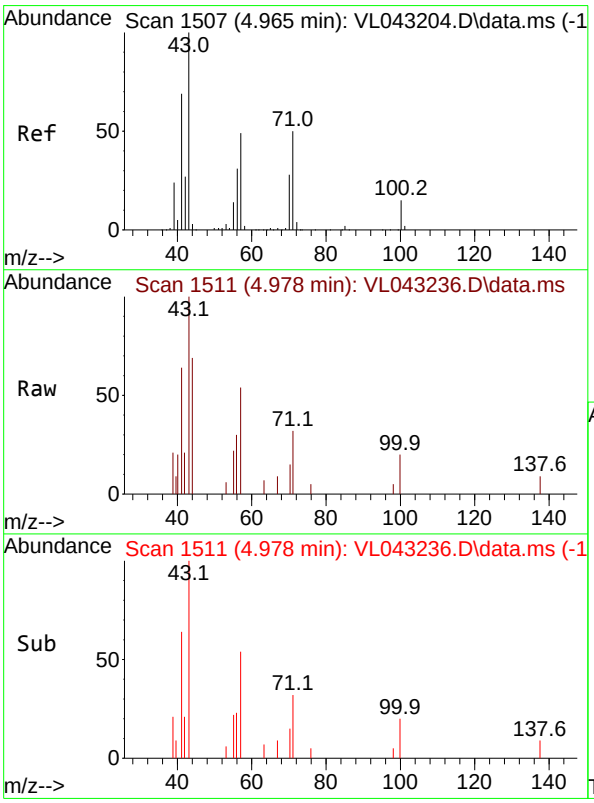
#9
Propene
Concen: 0.868 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 41 Resp: 5369

Ion	Ratio	Lower	Upper
41	100		
42	55.0	3.7	5.5#

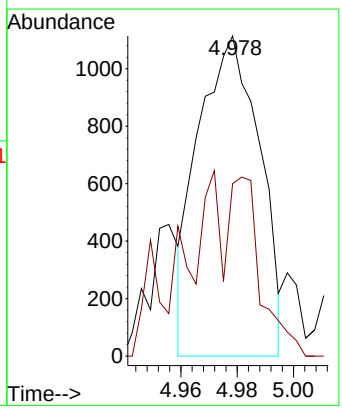


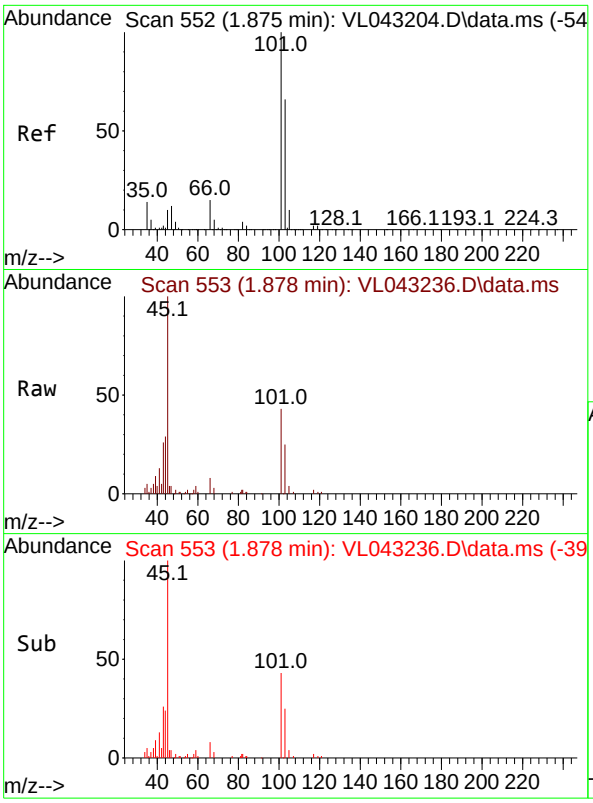


#10
Heptane
Concen: 0.092 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.013 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 43 Resp: 1685

Ion	Ratio	Lower	Upper
43	100		
57	66.9	39.7	59.5#



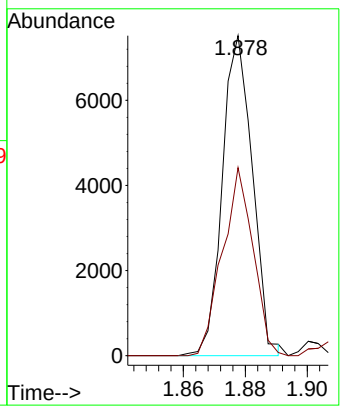


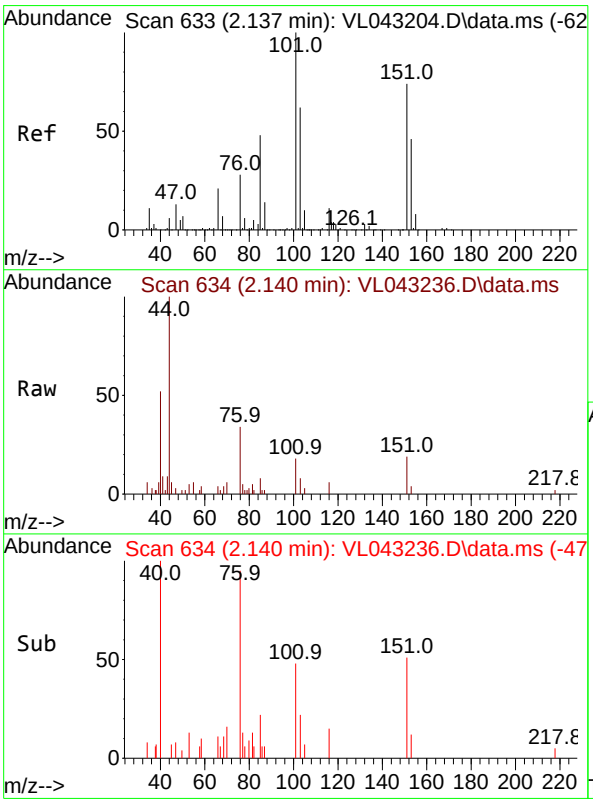
#11
Trichlorofluoromethane
Concen: 0.354 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion:101 Resp: 5081

Ion	Ratio	Lower	Upper
101	100		
103	58.7	52.6	79.0

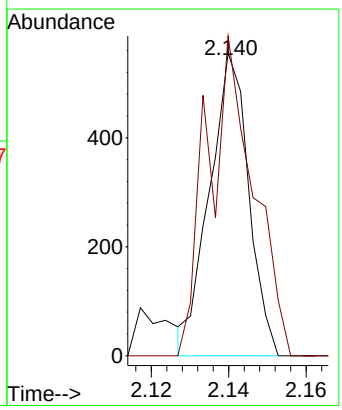


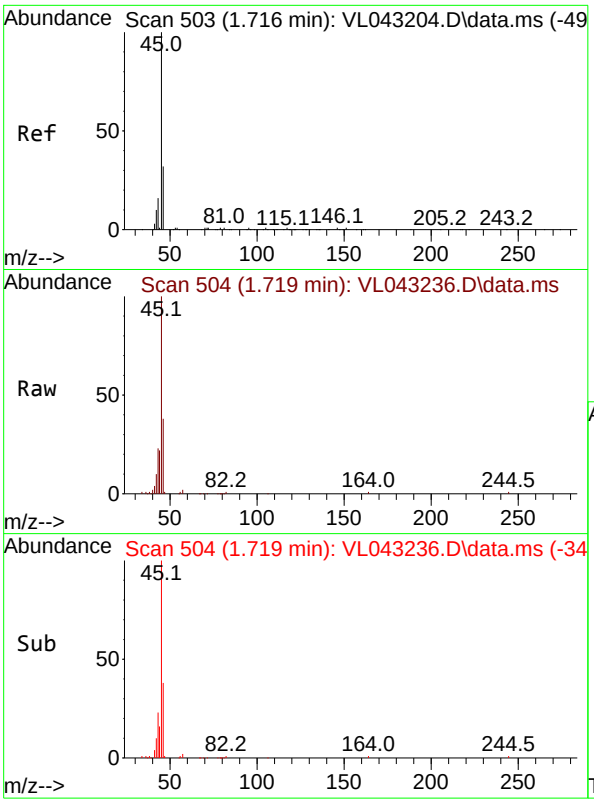


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.035 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion:101 Resp: 389

Ion	Ratio	Lower	Upper
101	100		
151	124.7	59.2	88.8#



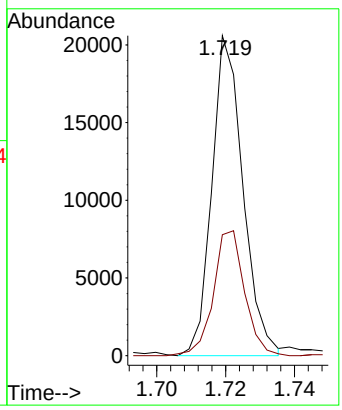


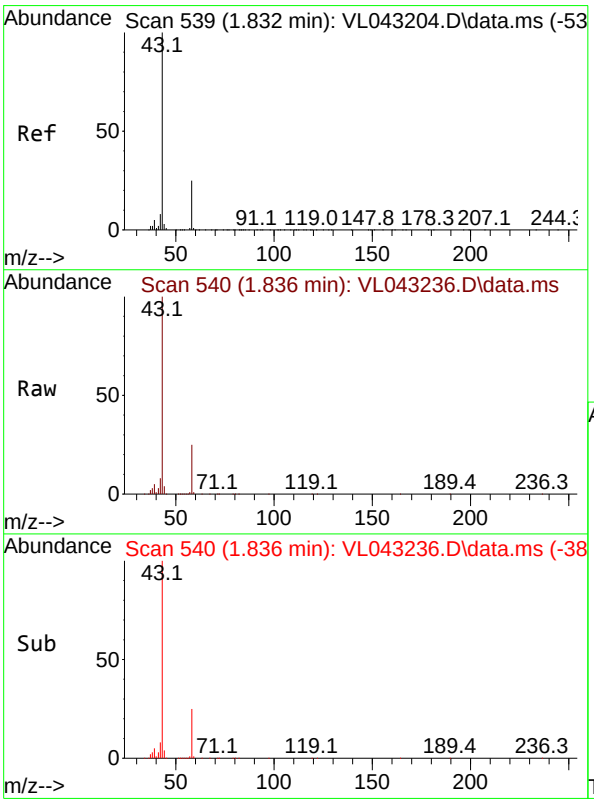
#13
Ethanol
Concen: 5.931 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 45 Resp: 12902

Ion	Ratio	Lower	Upper
45	100		
46	40.0	15.0	59.8

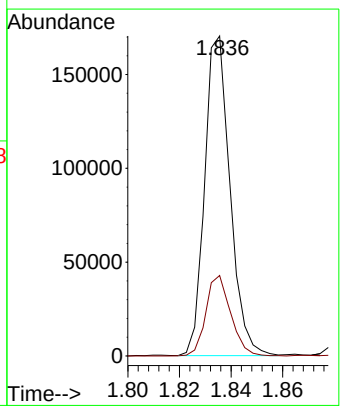


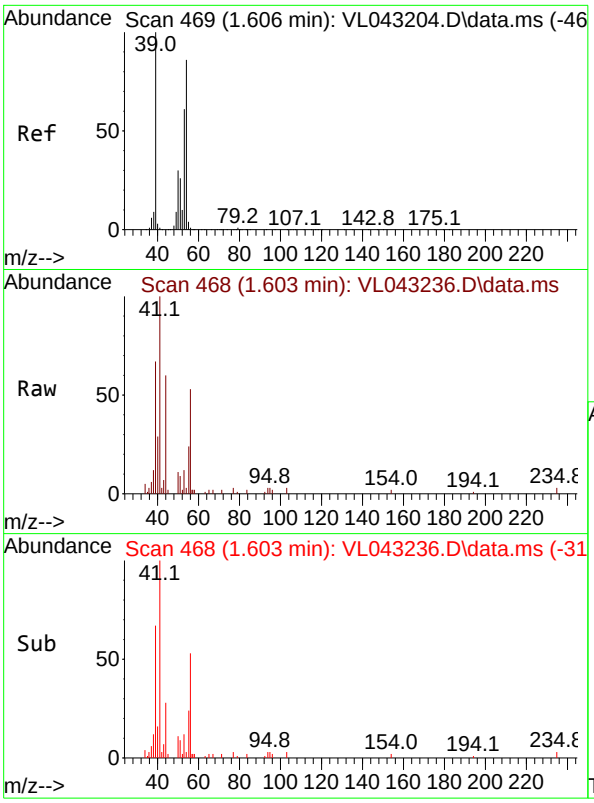


#15
Acetone
Concen: 7.977 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 43 Resp: 116398

Ion	Ratio	Lower	Upper
43	100		
58	24.8	20.7	31.1



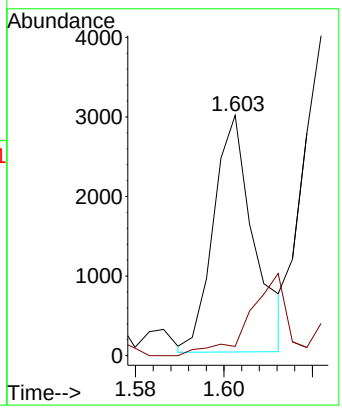


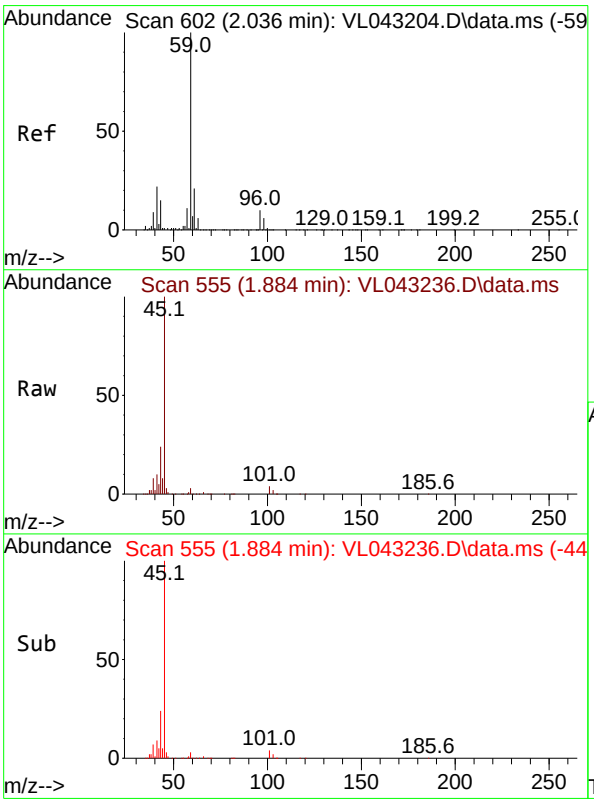
#16
1,3-Butadiene
Concen: 0.290 ppbv
RT: 1.603 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 39 Resp: 1886

Ion	Ratio	Lower	Upper
39	100		
54	0.0	59.4	89.2#

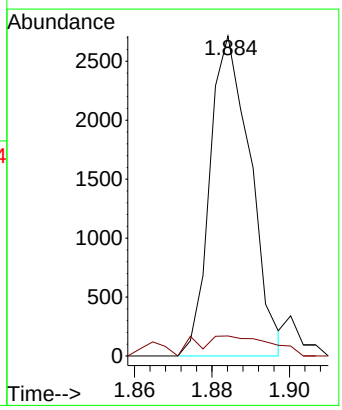


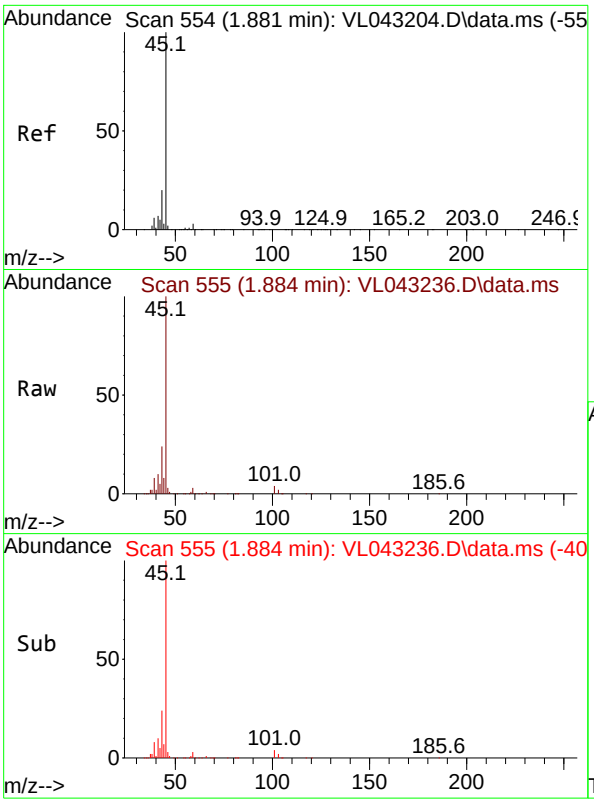


#17
tert-Butyl alcohol
Concen: 0.103 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.152 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 59 Resp: 1973

Ion	Ratio	Lower	Upper
59	100		
57	9.1	9.0	13.4



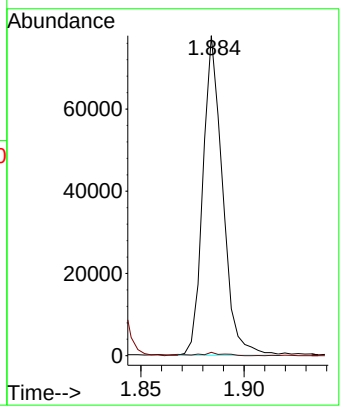


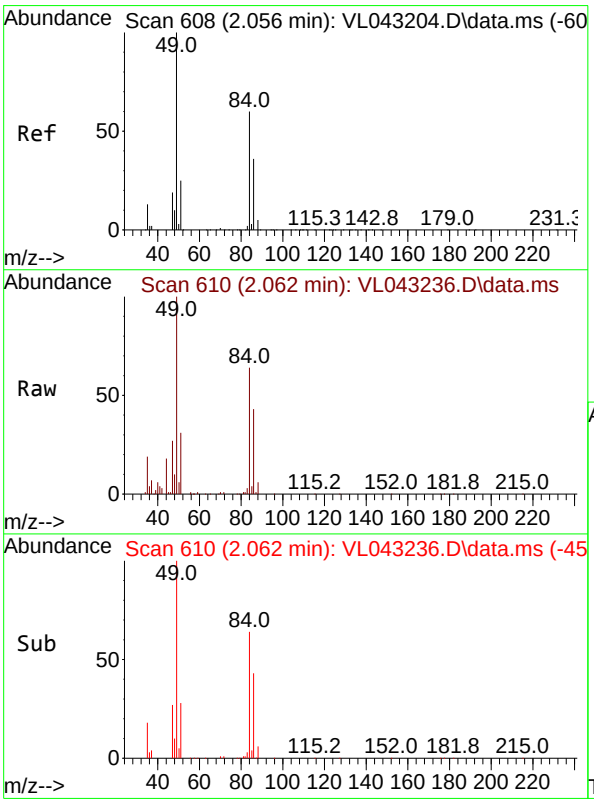
#19
Isopropyl Alcohol
Concen: 6.271 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 45 Resp: 51704

Ion	Ratio	Lower	Upper
45	100		
58	55.7	31.3	46.9#

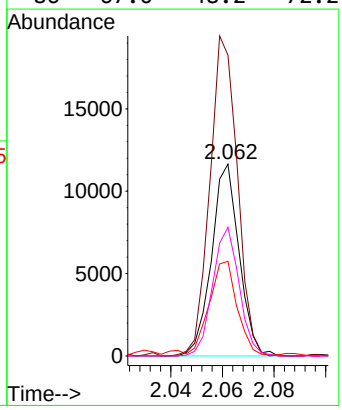


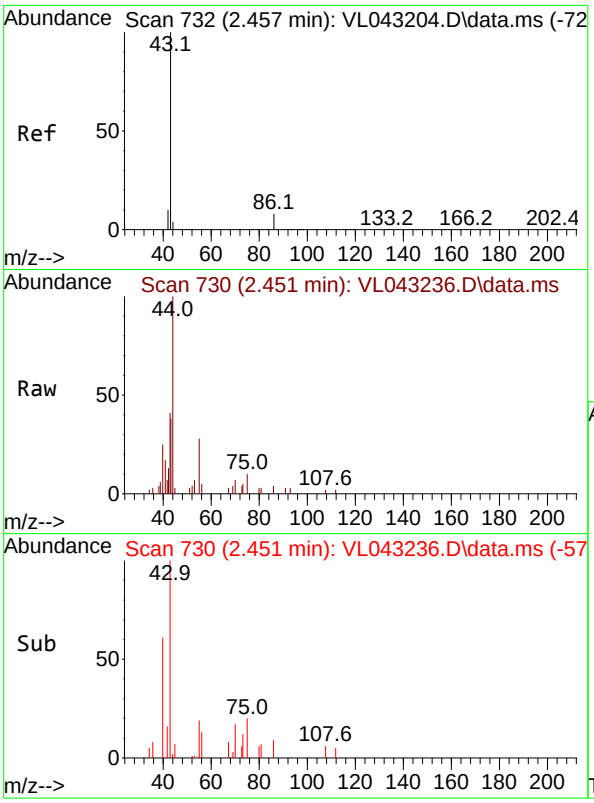


#20
Methylene Chloride
Concen: 1.334 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 84 Resp: 8662

Ion	Ratio	Lower	Upper
84	100		
49	156.2	132.9	199.3
51	48.8	34.8	52.2
86	67.0	48.2	72.2



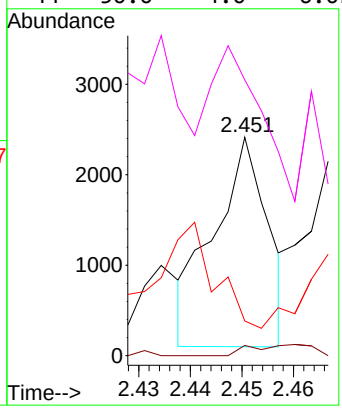


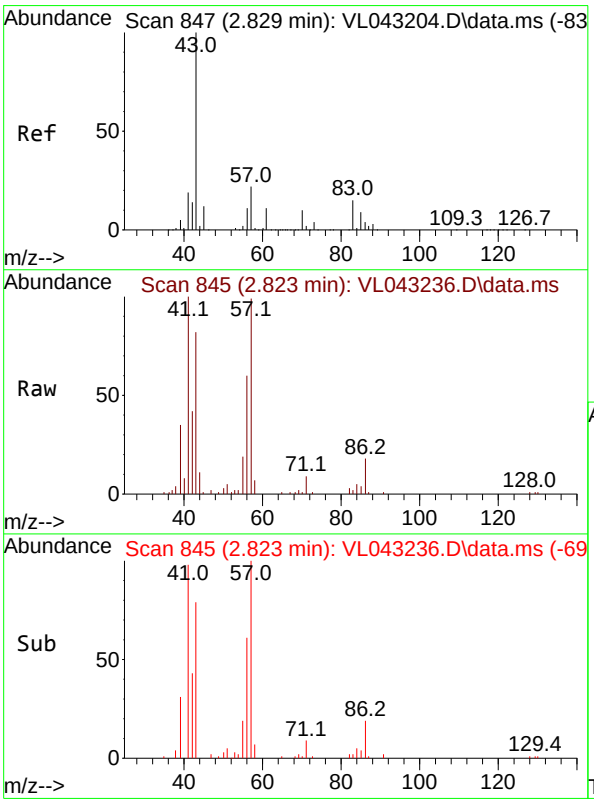
#23
Vinyl Acetate
Concen: 0.096 ppbv
RT: 2.451 min Scan# 7
Delta R.T. -0.007 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 43 Resp: 1684

Ion	Ratio	Lower	Upper
43	100		
86	7.2	6.2	9.2
42	0.0	8.0	12.0#
44	50.0	4.0	6.0#

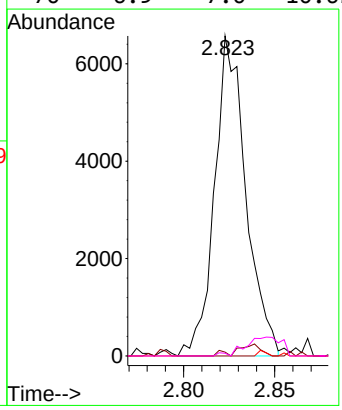


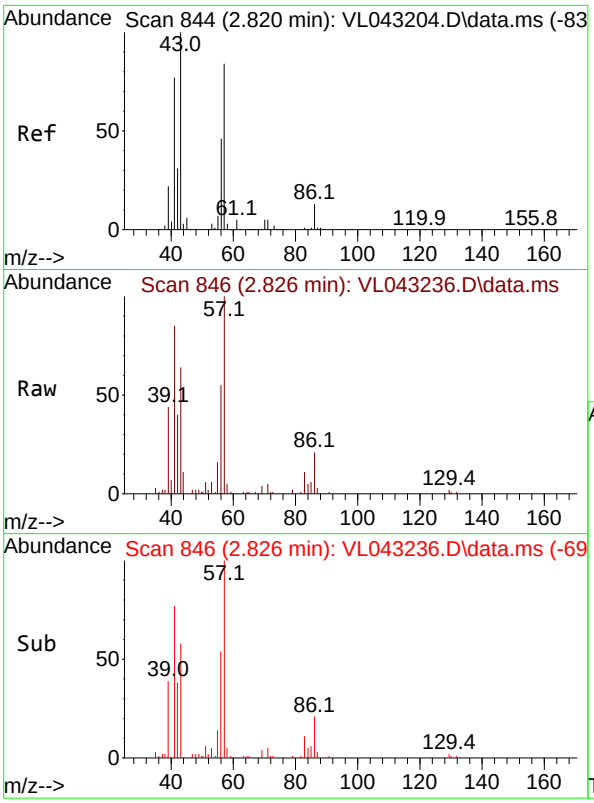


#25
Ethyl Acetate
Concen: 0.250 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.007 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 43 Resp: 7855

Ion	Ratio	Lower	Upper
43	100		
45	2.9	8.1	12.1#
61	0.6	7.0	10.4#
70	6.9	7.0	10.6#



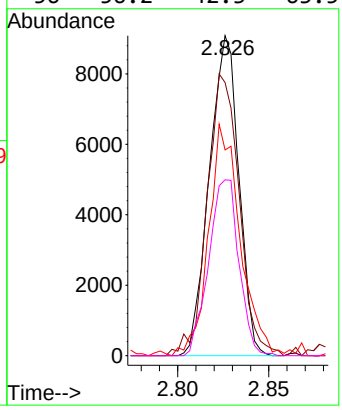


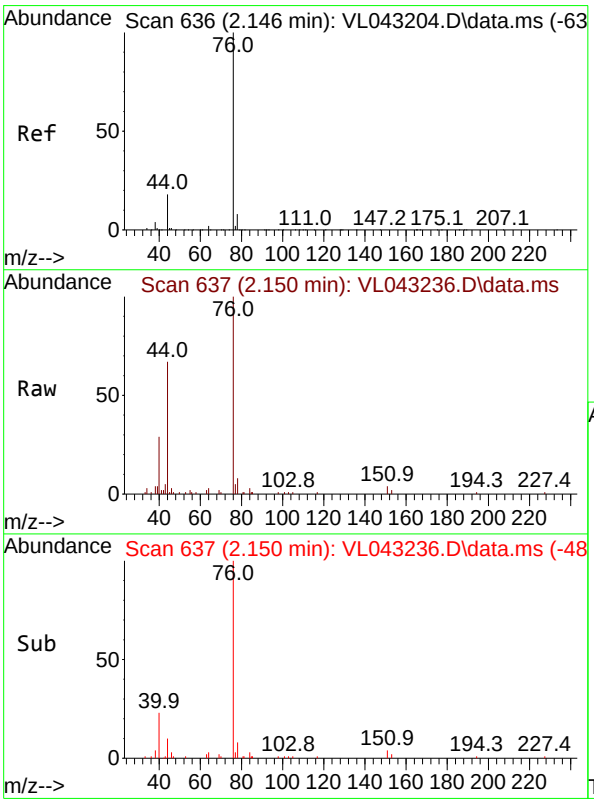
#26
Hexane
Concen: 0.741 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 57 Resp: 10226

Ion	Ratio	Lower	Upper
57	100		
41	98.2	74.6	111.8
43	79.0	179.0	268.4#
56	56.2	42.3	63.5

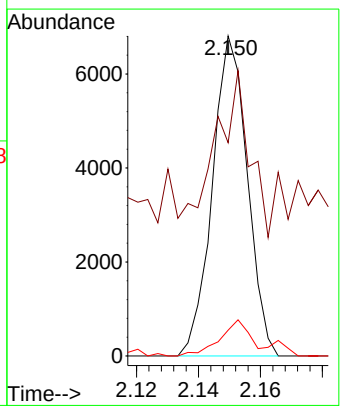


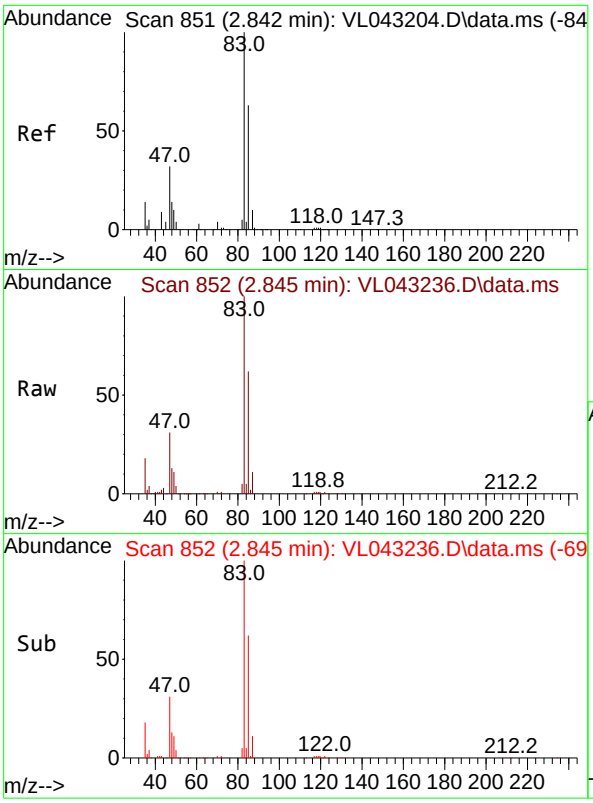


#27
Carbon Disulfide
Concen: 0.379 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 76 Resp: 5334

Ion	Ratio	Lower	Upper
76	100		
44	111.0	16.1	24.1#
78	12.2	9.6	14.4



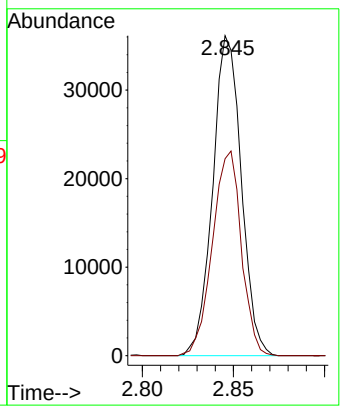


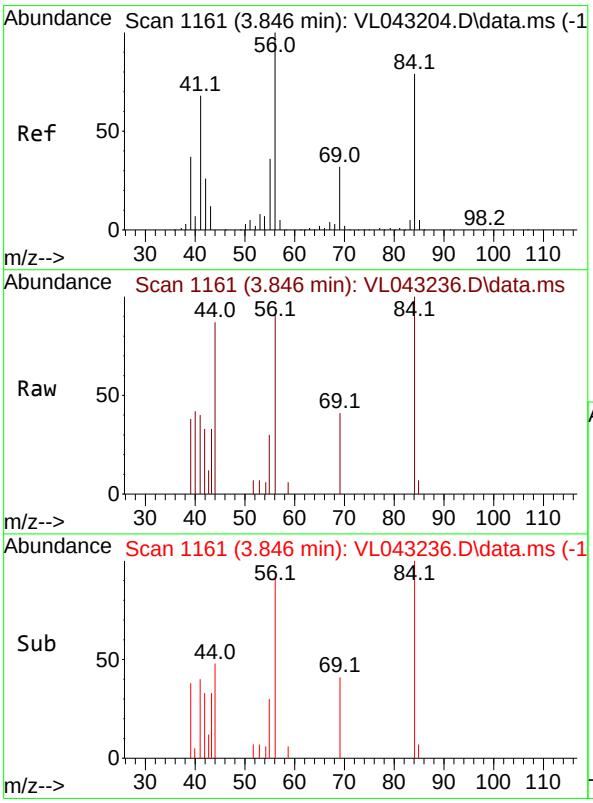
#29
Chloroform
Concen: 2.011 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 83 Resp: 39446

Ion	Ratio	Lower	Upper
83	100		
85	61.5	50.5	75.7

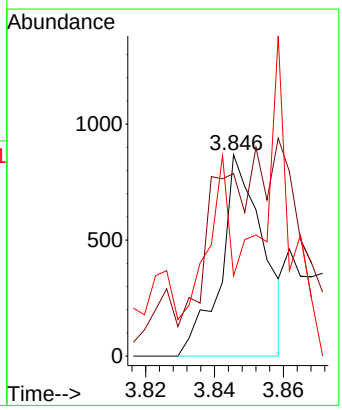


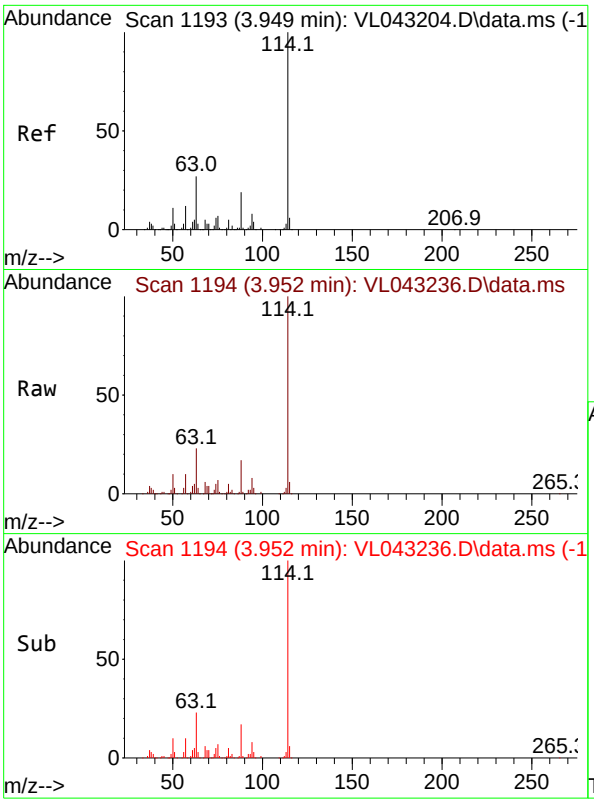


#30
Cyclohexane
Concen: 0.063 ppbv
RT: 3.846 min Scan# 1161
Delta R.T. -0.000 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 84 Resp: 731

Ion	Ratio	Lower	Upper
84	100		
56	0.0	104.7	157.1#
41	0.0	69.0	103.6#



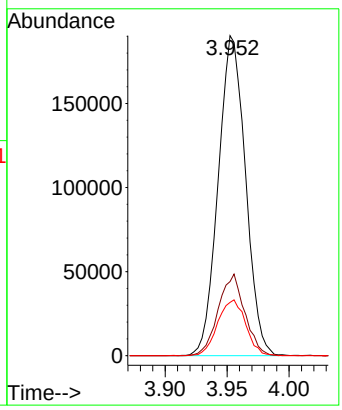


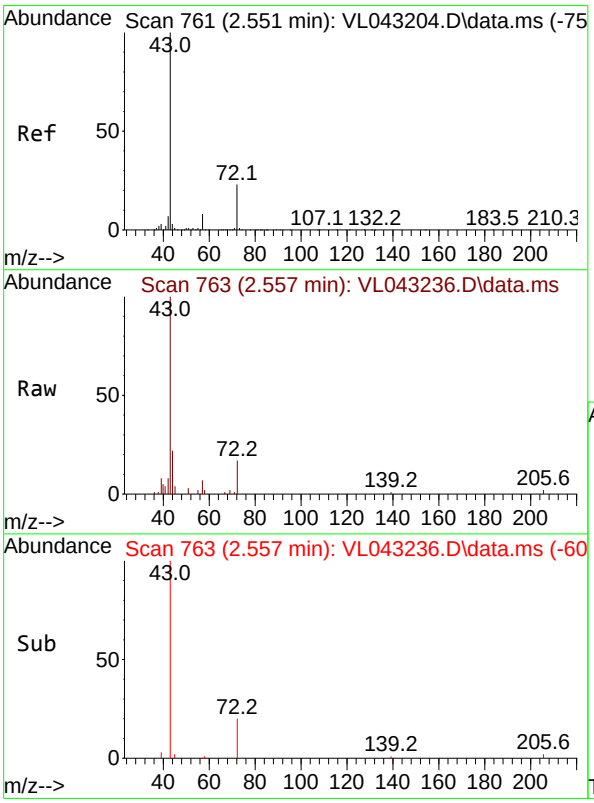
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion:114 Resp: 292365

Ion	Ratio	Lower	Upper
114	100		
63	24.8	21.0	31.6
88	17.9	14.9	22.3

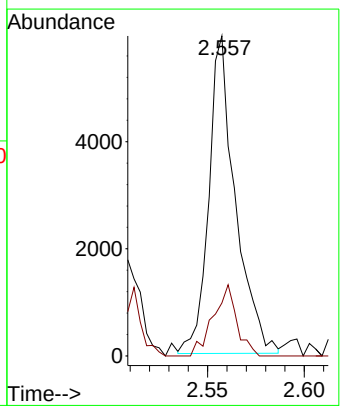


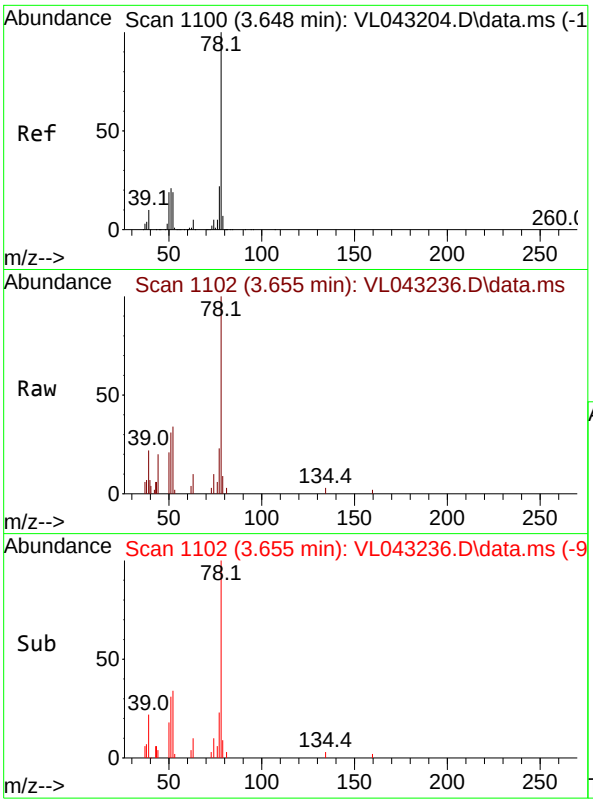


#34
2-Butanone
Concen: 0.274 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 43 Resp: 5651

Ion	Ratio	Lower	Upper
43	100		
72	20.0	18.1	27.1



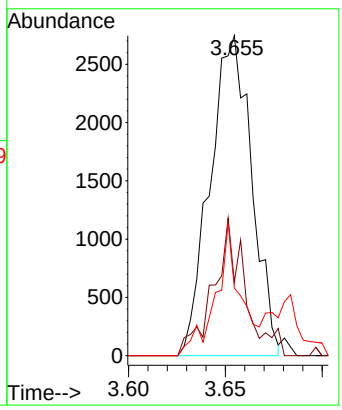


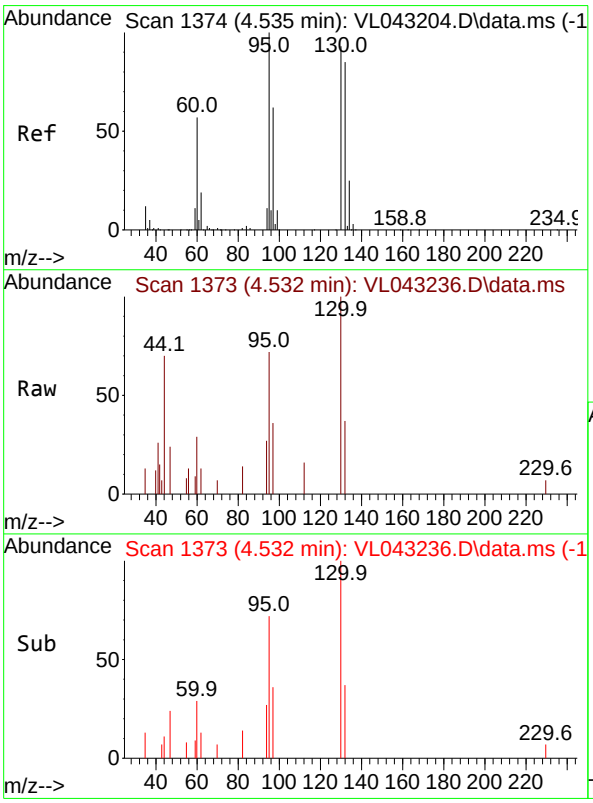
#36
Benzene
Concen: 0.147 ppbv
RT: 3.655 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 78 Resp: 4112

Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.5	26.3
50	21.1	15.5	23.3

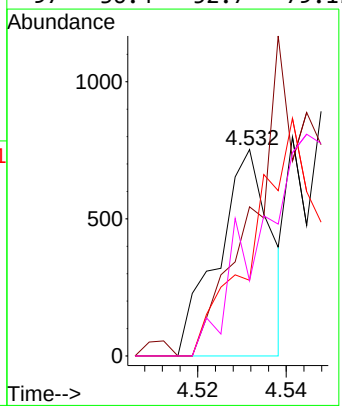


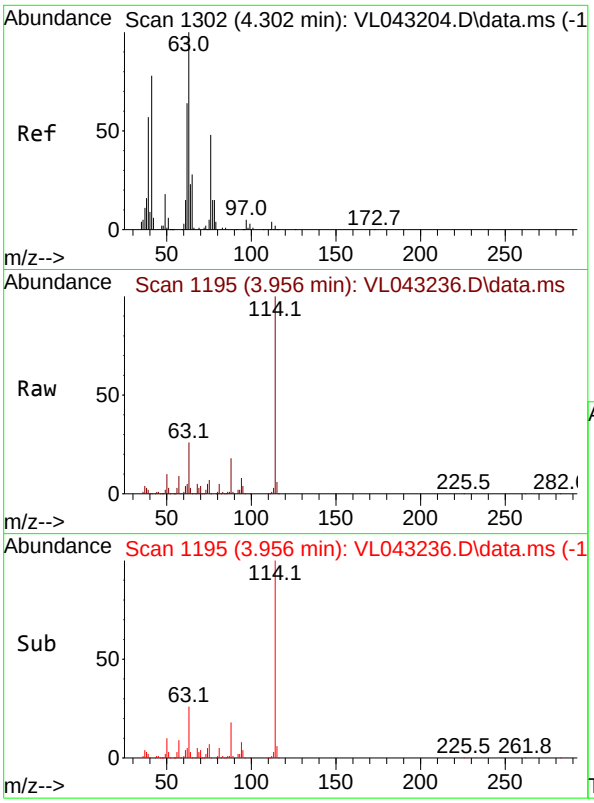


#38
Trichloroethene
Concen: 0.056 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. -0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion:130 Resp: 617

Ion	Ratio	Lower	Upper
130	100		
95	72.2	85.7	128.5#
132	36.7	73.4	110.0#
97	36.4	52.7	79.1#



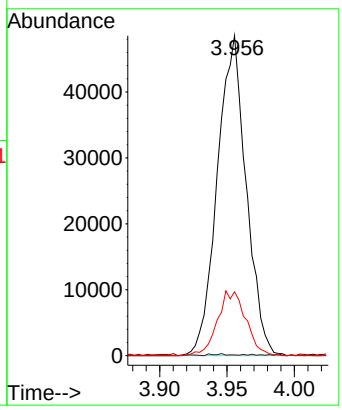


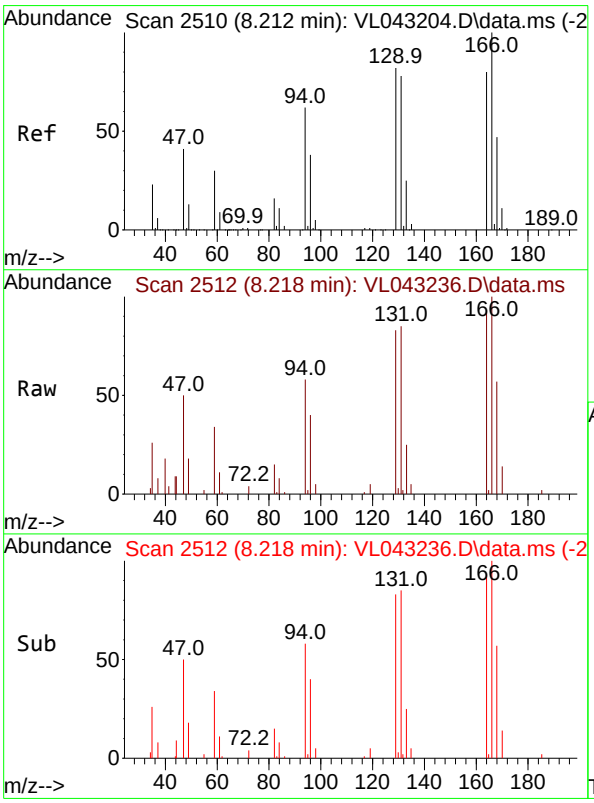
#39
1,2-Dichloropropane
Concen: 7.055 ppbv
RT: 3.956 min Scan# 11
Delta R.T. -0.346 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 63 Resp: 72302

Ion	Ratio	Lower	Upper
63	100		
41	0.2	62.6	93.8#
62	20.0	51.0	76.6#

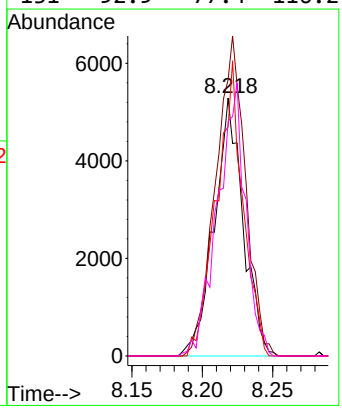


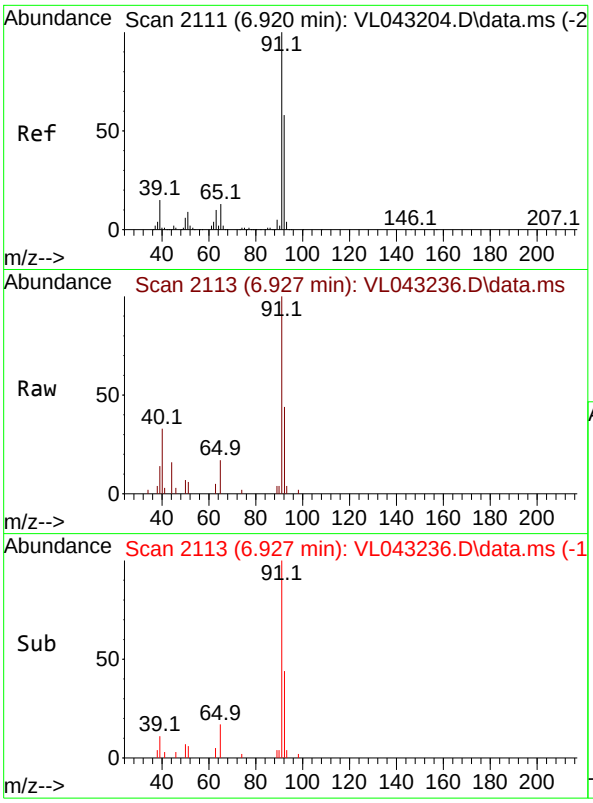


#52
Tetrachloroethene
Concen: 0.728 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion:164 Resp: 7582

Ion	Ratio	Lower	Upper
164	100		
166	107.1	99.4	149.2
129	88.8	81.8	122.8
131	92.9	77.4	116.2



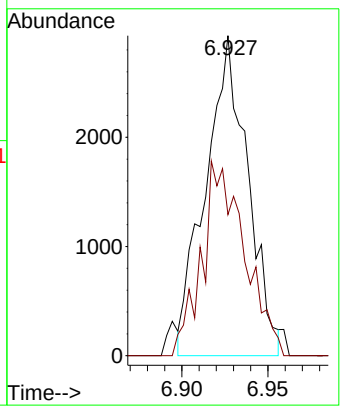


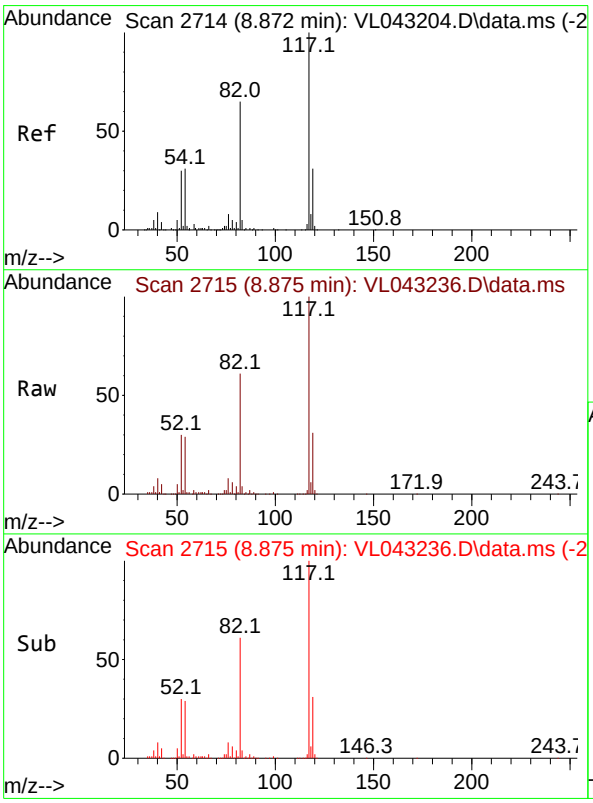
#53
Toluene
Concen: 0.150 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 91 Resp: 4988

Ion	Ratio	Lower	Upper
91	100		
92	61.3	47.4	71.0

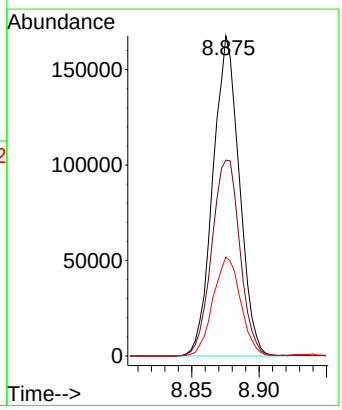


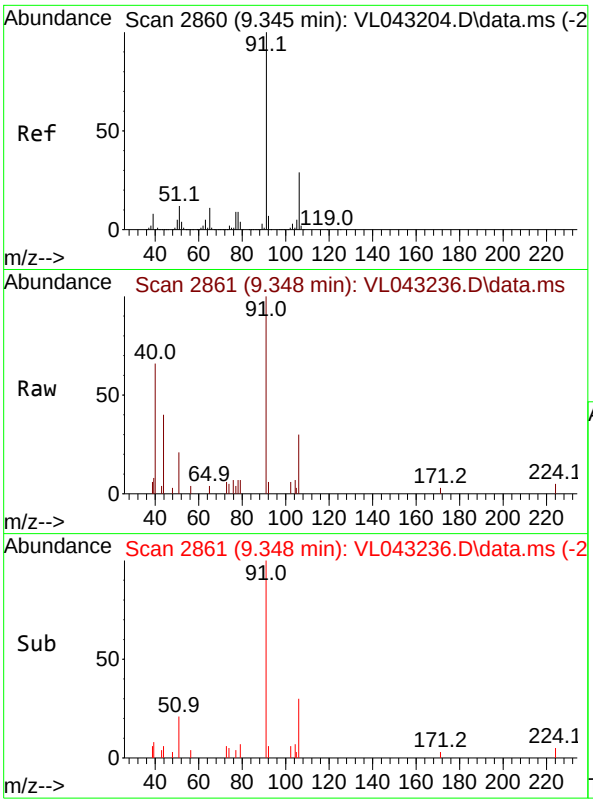


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion:117 Resp: 227868

Ion	Ratio	Lower	Upper
117	100		
82	65.8	56.1	84.1
119	32.5	25.0	37.6



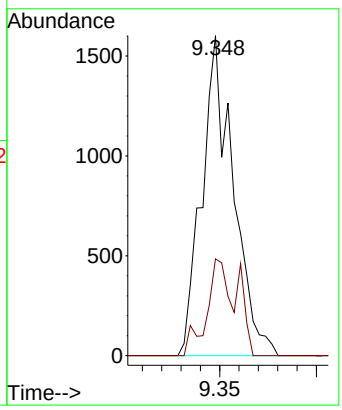


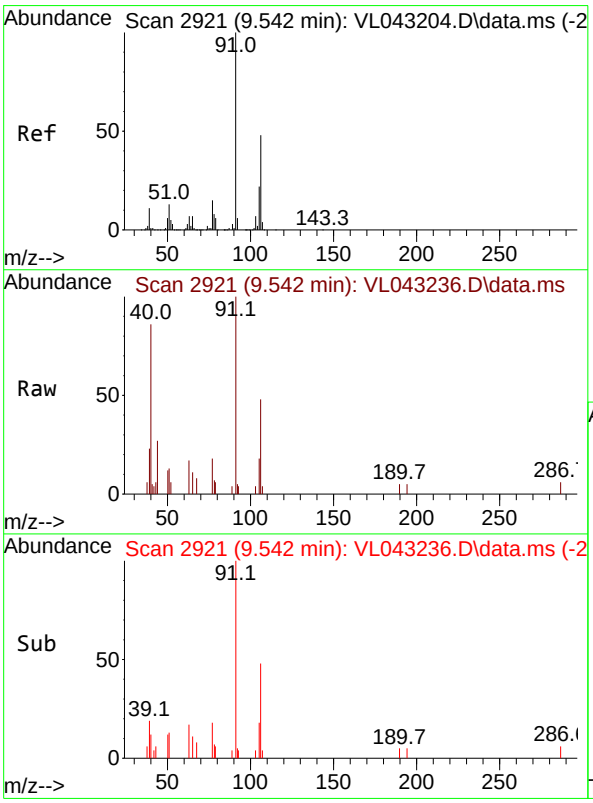
#58
Ethyl Benzene
Concen: 0.041 ppbv
RT: 9.348 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 91 Resp: 1800

Ion	Ratio	Lower	Upper
91	100		
106	30.3	22.8	34.2

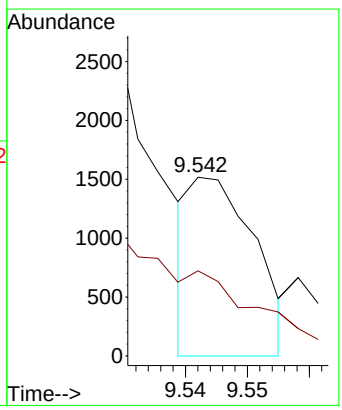


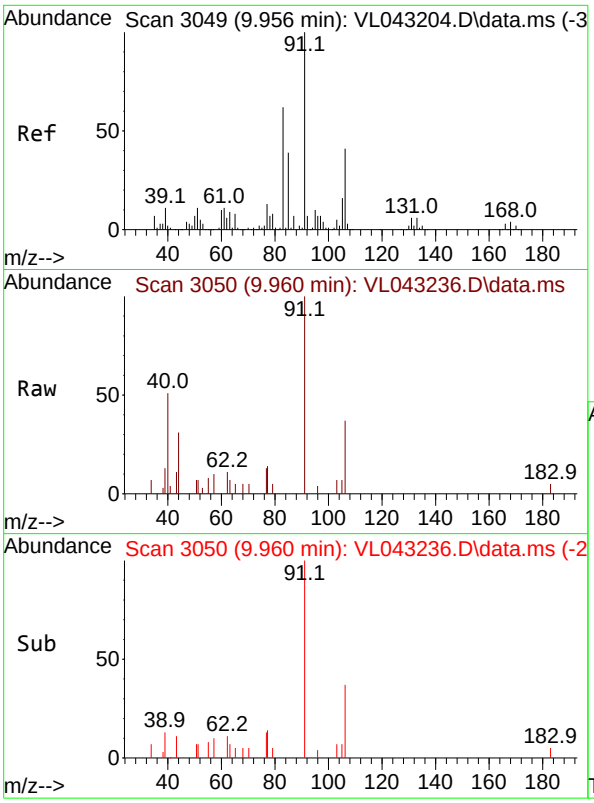


#59
m/p-Xylene
Concen: 0.031 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.000 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion: 91 Resp: 1102

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#



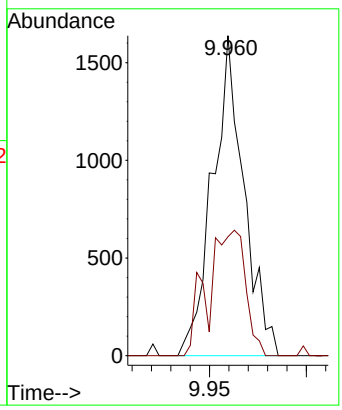


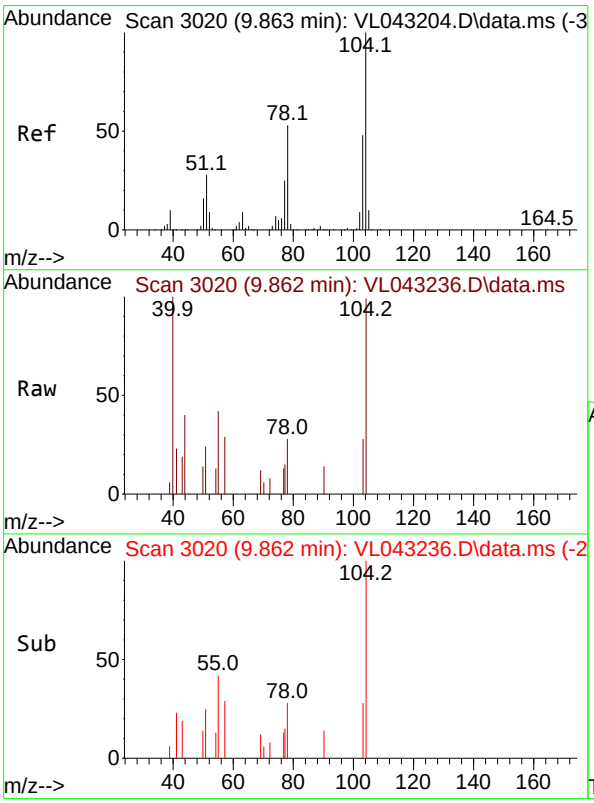
#60
o-Xylene
Concen: 0.052 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 91 Resp: 1842

Ion	Ratio	Lower	Upper
91	100		
106	47.5	20.9	62.8

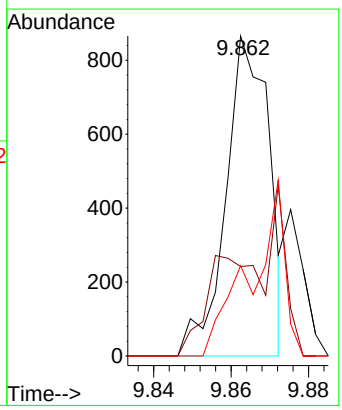


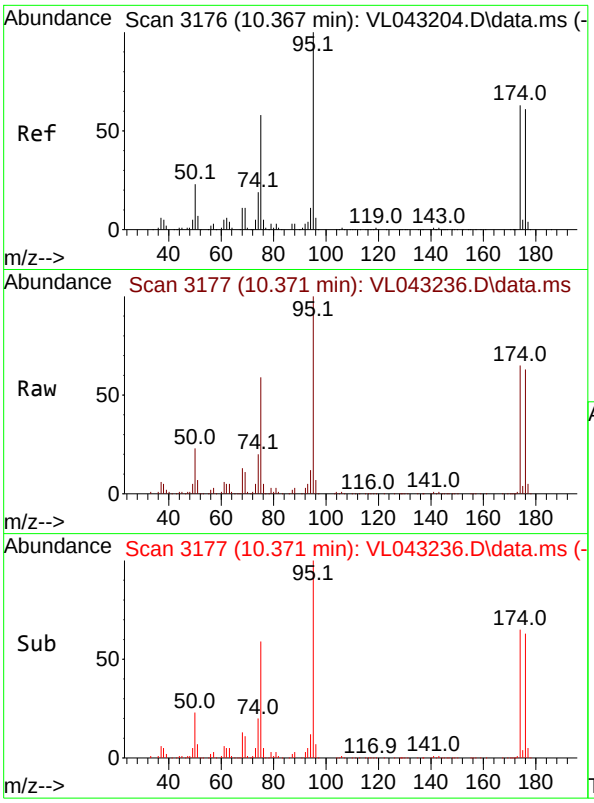


#61
Styrene
Concen: 0.044 ppbv
RT: 9.862 min Scan# 3020
Delta R.T. -0.000 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion:104 Resp: 673

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



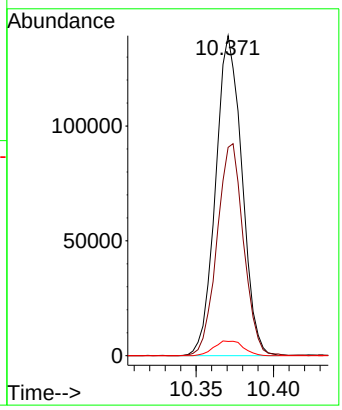


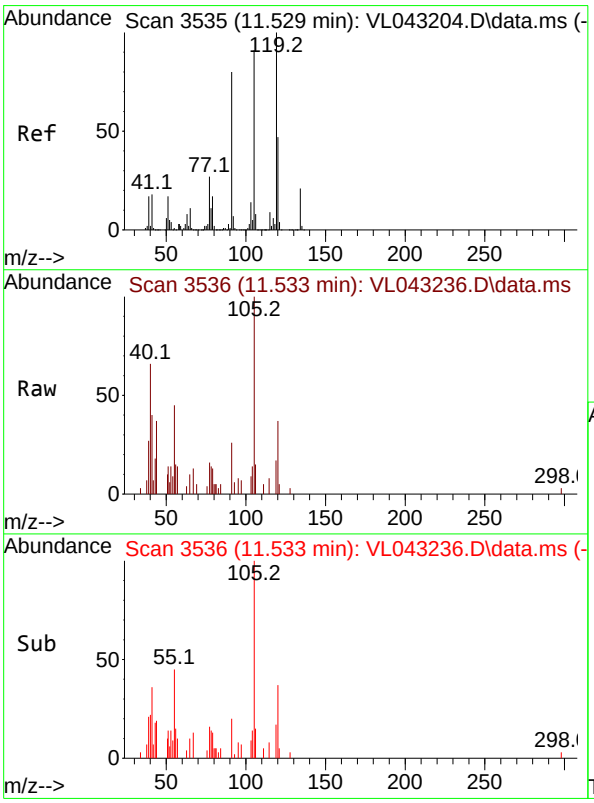
#68
1-Bromo-4-Fluorobenzene
Concen: 9.856 ppbv
RT: 10.371 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 95 Resp: 164621

Ion	Ratio	Lower	Upper
95	100		
174	66.9	50.2	75.2
175	5.1	4.1	6.1

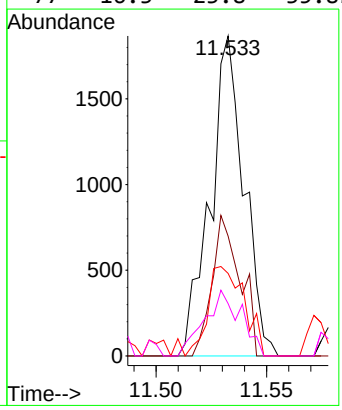




#74
1,2,4-Trimethylbenzene
Concen: 0.051 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Tgt Ion:105 Resp: 1982

Ion	Ratio	Lower	Upper
105	100		
120	42.7	41.7	62.5
91	25.8	70.0	105.0#
77	16.3	23.8	35.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043237.D
Acq On : 19 Nov 2025 13:50
Operator : SY/MD
Sample : Q3626-03 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Quant Time: Nov 20 00:04:50 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

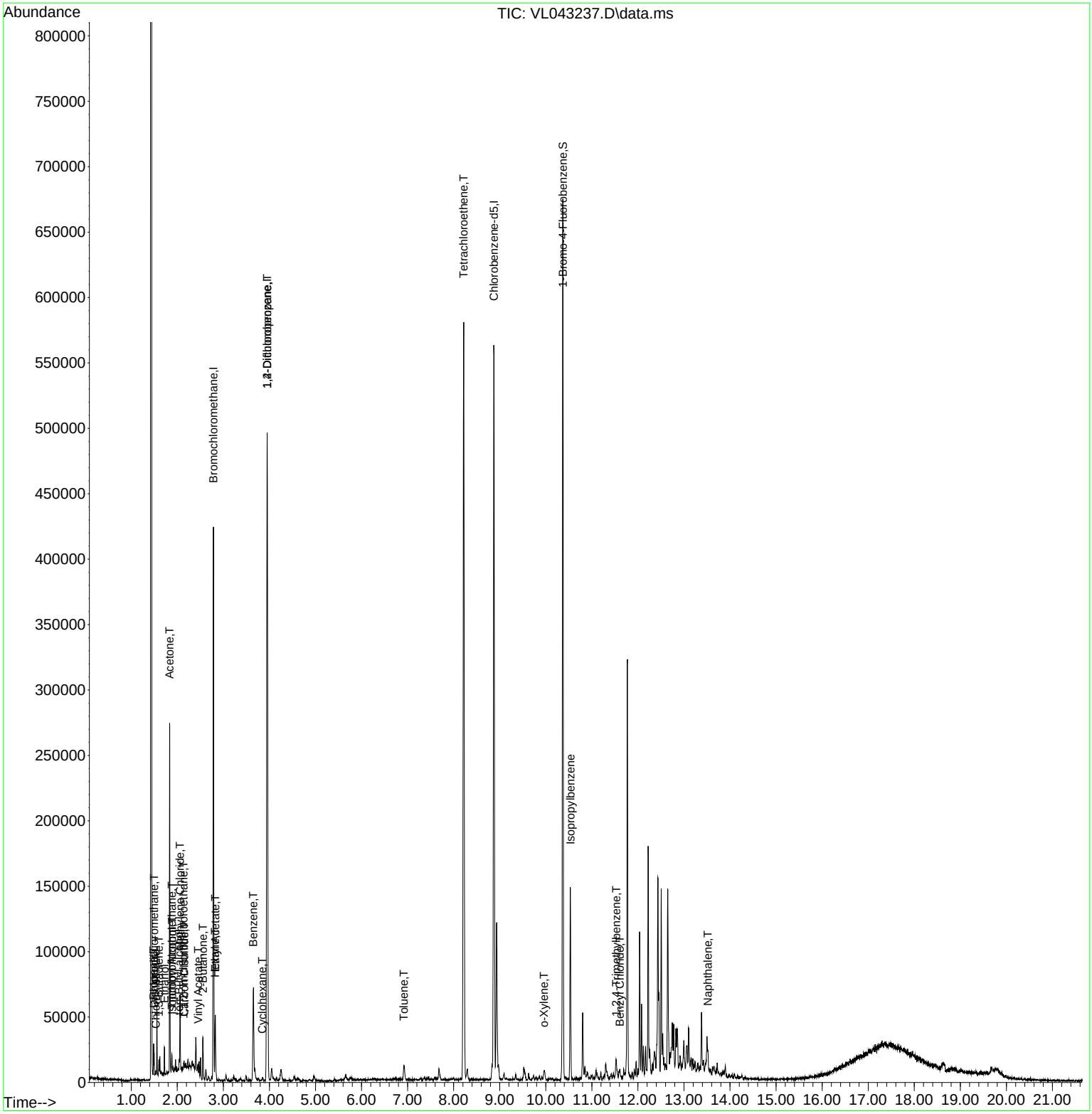
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	102616	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	290774	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	231142	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	167299	9.874	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	4164	0.288	ppbv	#	84
4) Chloromethane	1.531	50	635	0.117	ppbv	#	88
9) Propene	1.486	41	2474	0.409	ppbv	#	1
11) Trichlorofluoromethane	1.881	101	1987	0.142	ppbv		84
12) 1,1,2-Trichlorotrifluo...	2.136	101	672	0.061	ppbv		84
13) Ethanol	1.722	45	7021	3.303	ppbv	#	38
15) Acetone	1.832	43	117974	8.275	ppbv		97
16) 1,3-Butadiene	1.599	39	1887	0.297	ppbv	#	36
17) tert-Butyl alcohol	2.039	59	3430	0.183	ppbv	#	82
19) Isopropyl Alcohol	1.887	45	4299	0.534	ppbv	#	1
20) Methylene Chloride	2.059	84	8293	1.290	ppbv	#	85
23) Vinyl Acetate	2.454	43	1129	0.066	ppbv	#	70
25) Ethyl Acetate	2.822	43	8280	0.269	ppbv	#	78
26) Hexane	2.819	57	10878	0.807	ppbv	#	42
27) Carbon Disulfide	2.149	76	1914	0.139	ppbv	#	1
30) Cyclohexane	3.845	84	356	0.031	ppbv	#	27
34) 2-Butanone	2.557	43	20773	1.012	ppbv		99
36) Benzene	3.651	78	43150	1.550	ppbv		97
39) 1,2-Dichloropropane	3.952	63	74125	7.273	ppbv	#	23
52) Tetrachloroethene	8.218	164	99519	9.608	ppbv		98
53) Toluene	6.920	91	5000	0.152	ppbv	#	46
60) o-Xylene	9.959	91	2126	0.060	ppbv		99
62) Isopropylbenzene	10.535	105	66231	1.039	ppbv		100
66) Benzyl Chloride	11.607	91	232	0.040	ppbv	#	1
74) 1,2,4-Trimethylbenzene	11.529	105	2816	0.071	ppbv	#	54
79) Naphthalene	13.516	128	1186	0.034	ppbv	#	87

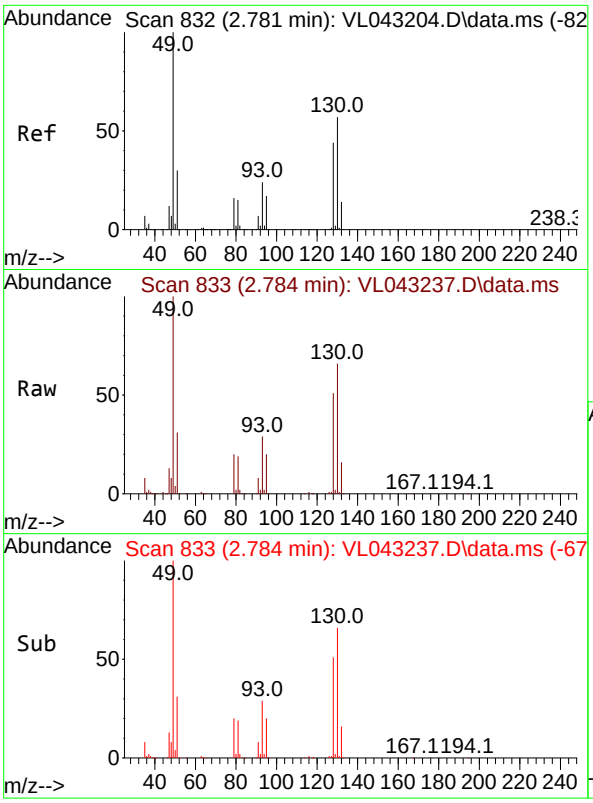
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043237.D
Acq On : 19 Nov 2025 13:50
Operator : SY/MD
Sample : Q3626-03 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Quant Time: Nov 20 00:04:50 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



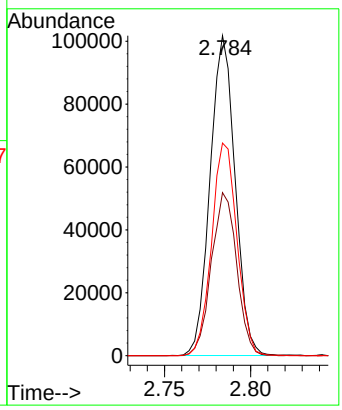


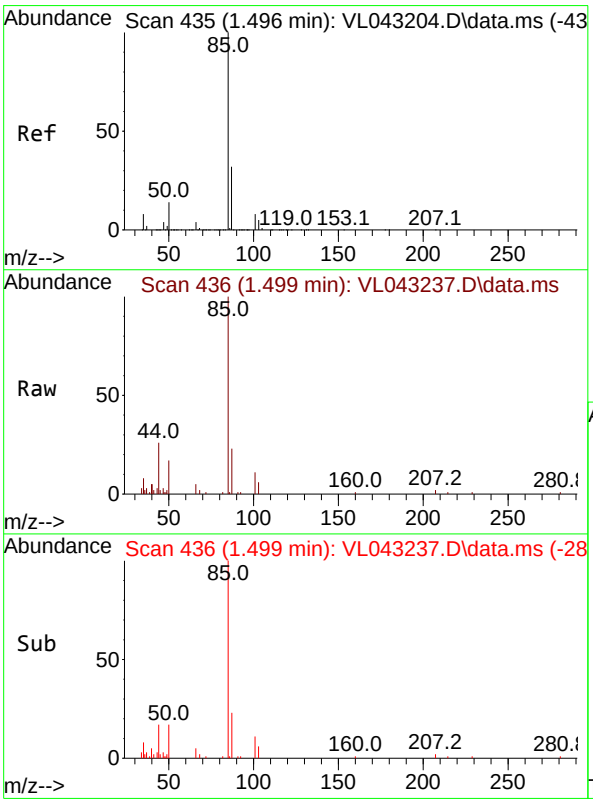
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion: 49 Resp: 102616

Ion	Ratio	Lower	Upper
49	100		
128	51.8	23.0	69.0
130	67.5	29.9	89.7

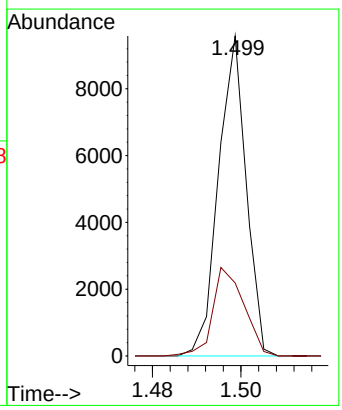


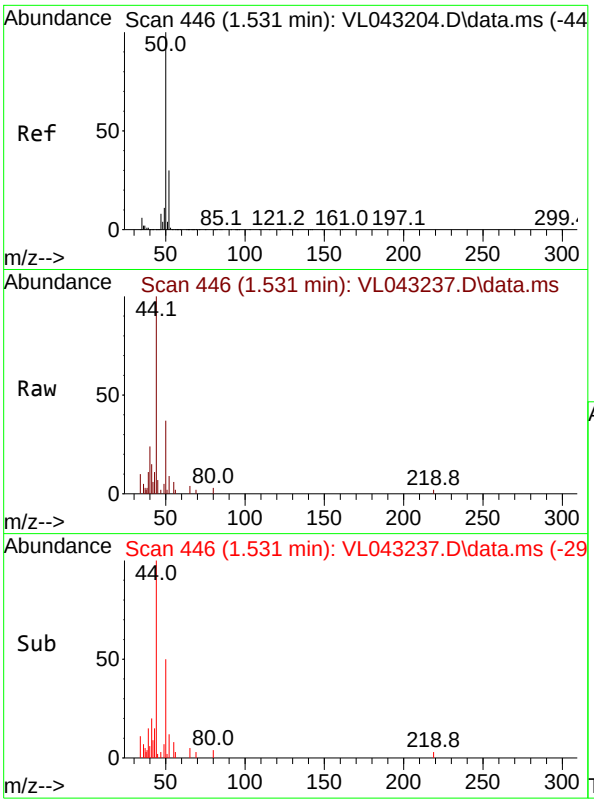


#2
Dichlorodifluoromethane
Concen: 0.288 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 85 Resp: 4164

Ion	Ratio	Lower	Upper
85	100		
87	22.8	25.4	38.2#



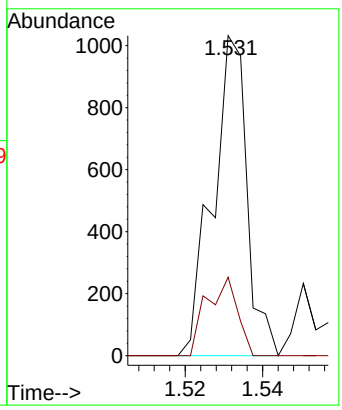


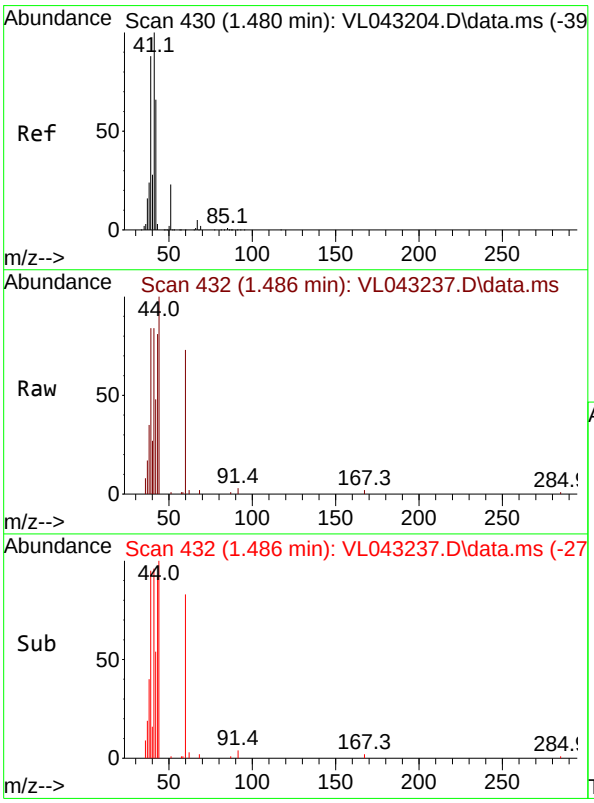
#4
Chloromethane
Concen: 0.117 ppbv
RT: 1.531 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion: 50 Resp: 635

Ion	Ratio	Lower	Upper
50	100		
52	23.4	24.1	36.1#

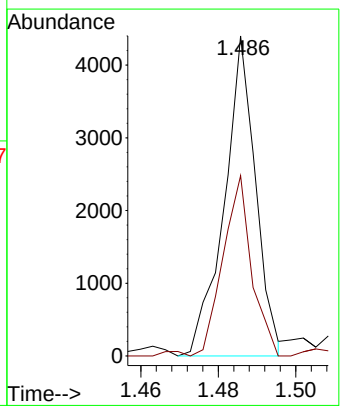


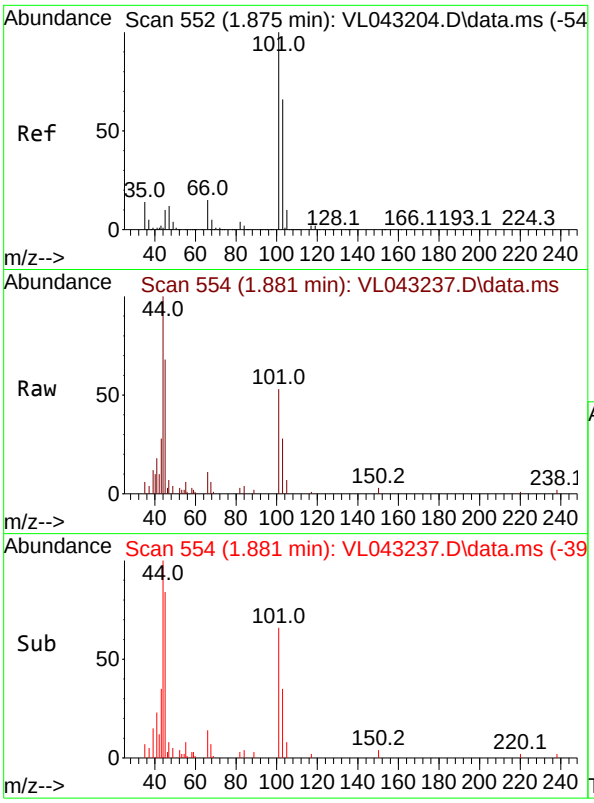


#9
Propene
Concen: 0.409 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 41 Resp: 2474

Ion	Ratio	Lower	Upper
41	100		
42	54.9	3.7	5.5#



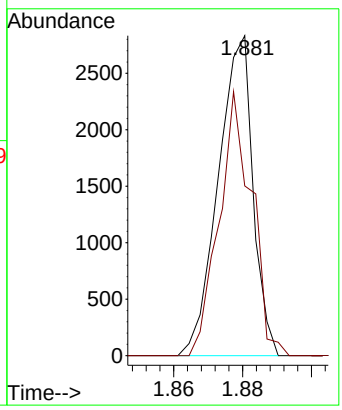


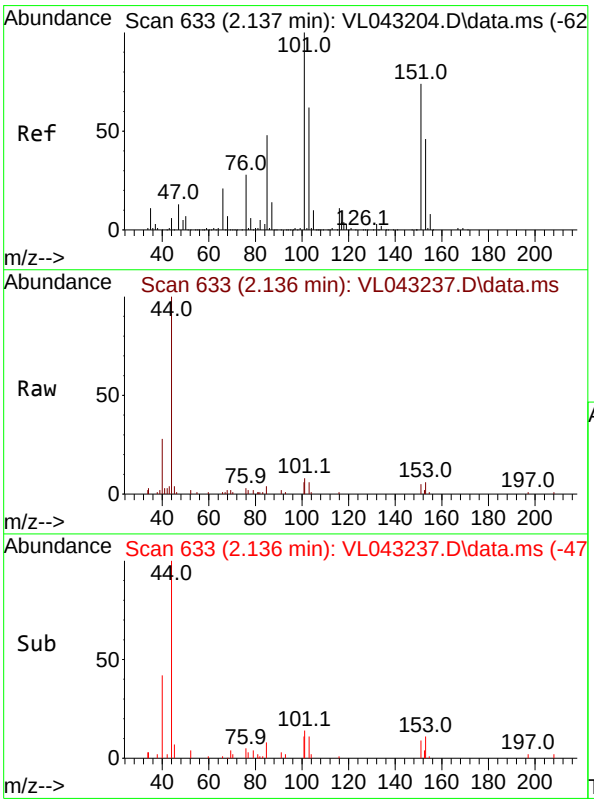
#11
Trichlorofluoromethane
Concen: 0.142 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion:101 Resp: 1987

Ion	Ratio	Lower	Upper
101	100		
103	53.1	52.6	79.0

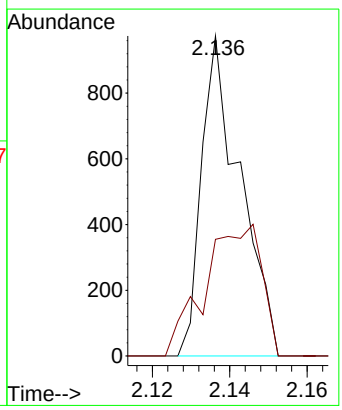


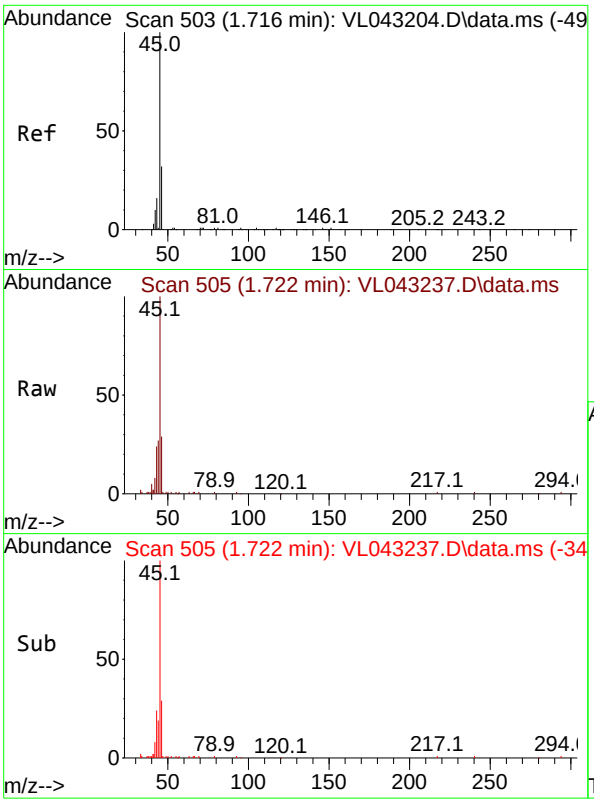


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.061 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:101 Resp: 672

Ion	Ratio	Lower	Upper
101	100		
151	60.7	59.2	88.8



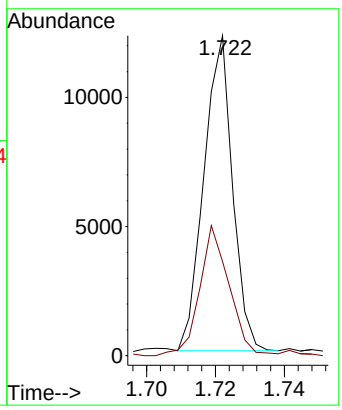


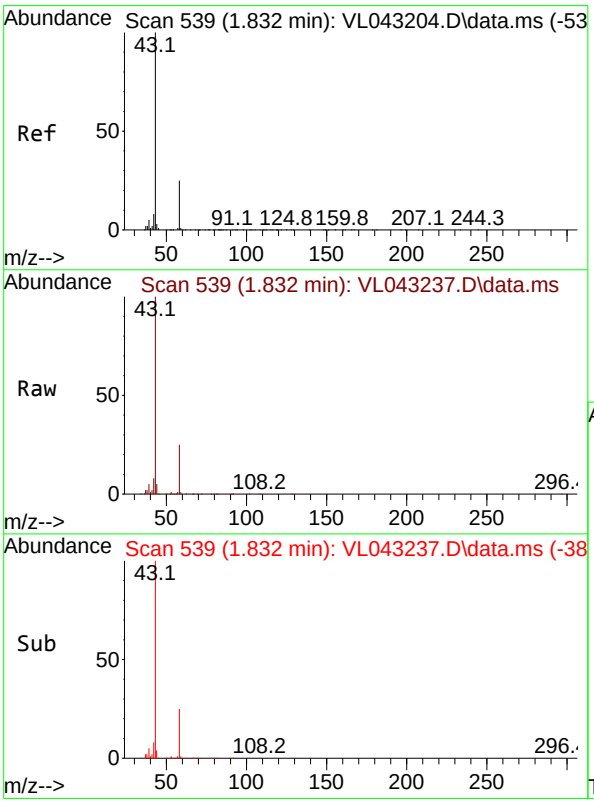
#13
Ethanol
Concen: 3.303 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion: 45 Resp: 7021

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.0	59.8#

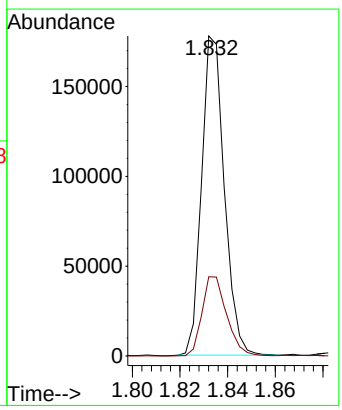


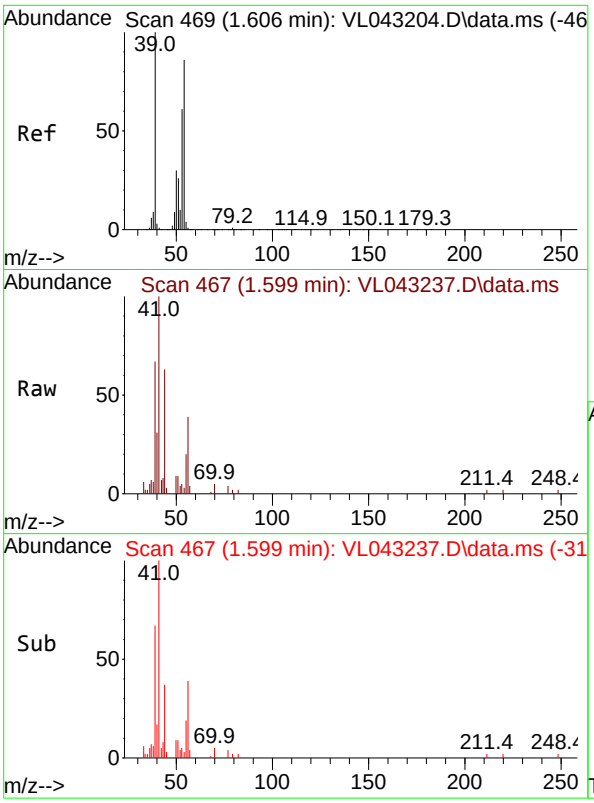


#15
Acetone
Concen: 8.275 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 43 Resp: 117974

Ion	Ratio	Lower	Upper
43	100		
58	27.3	20.7	31.1



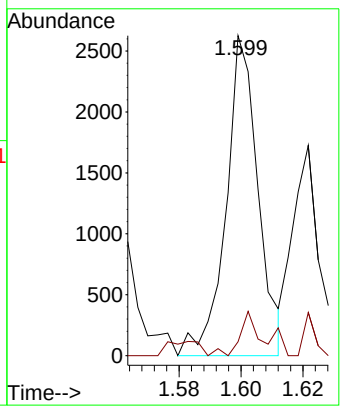


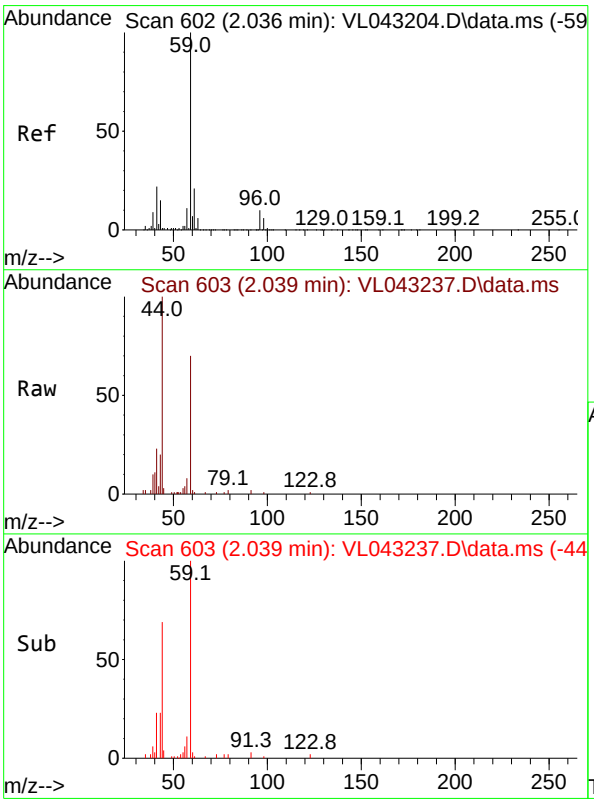
#16
1,3-Butadiene
Concen: 0.297 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion: 39 Resp: 1887

Ion	Ratio	Lower	Upper
39	100		
54	19.8	59.4	89.2#

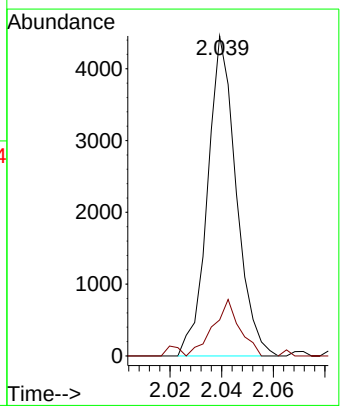


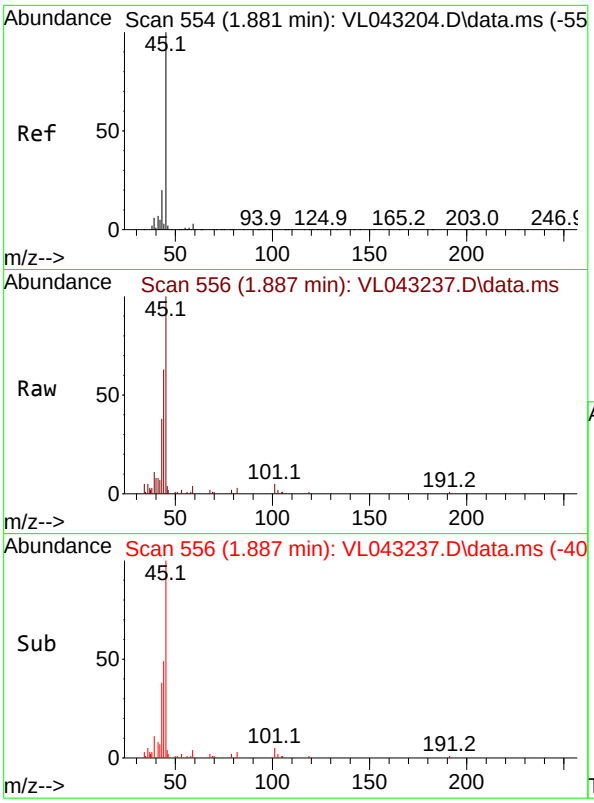


#17
tert-Butyl alcohol
Concen: 0.183 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 59 Resp: 3430

Ion	Ratio	Lower	Upper
59	100		
57	18.2	9.0	13.4#



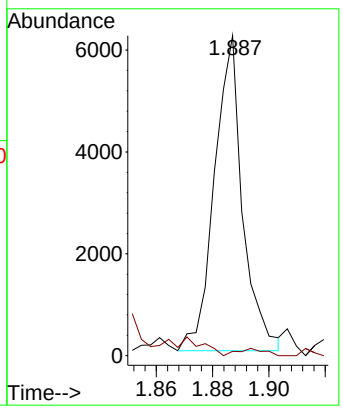


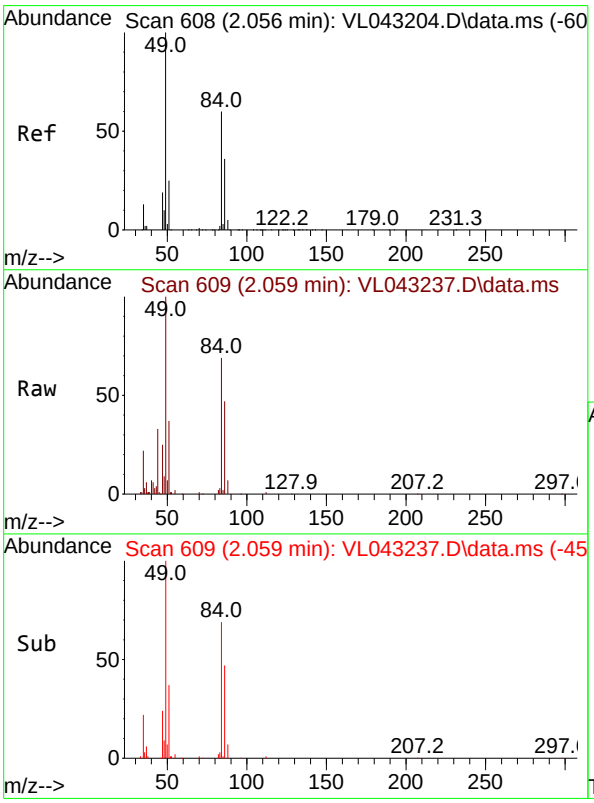
#19
Isopropyl Alcohol
Concen: 0.534 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion: 45 Resp: 4299

Ion	Ratio	Lower	Upper
45	100		
58	750.3	31.3	46.9#

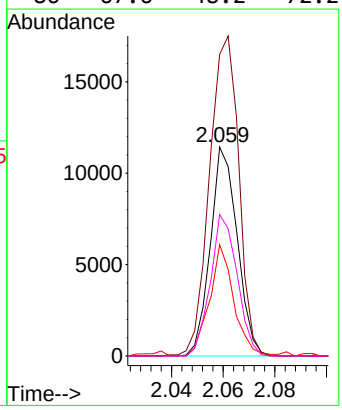


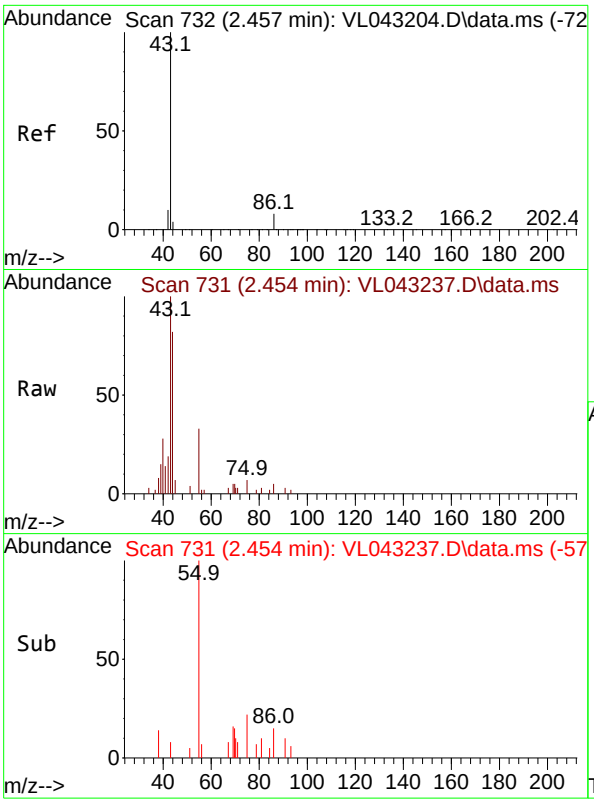


#20
Methylene Chloride
Concen: 1.290 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 84 Resp: 8293

Ion	Ratio	Lower	Upper
84	100		
49	144.2	132.9	199.3
51	53.3	34.8	52.2#
86	67.6	48.2	72.2



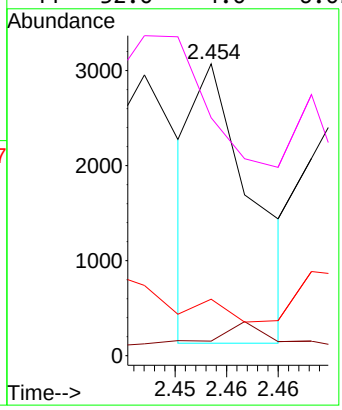


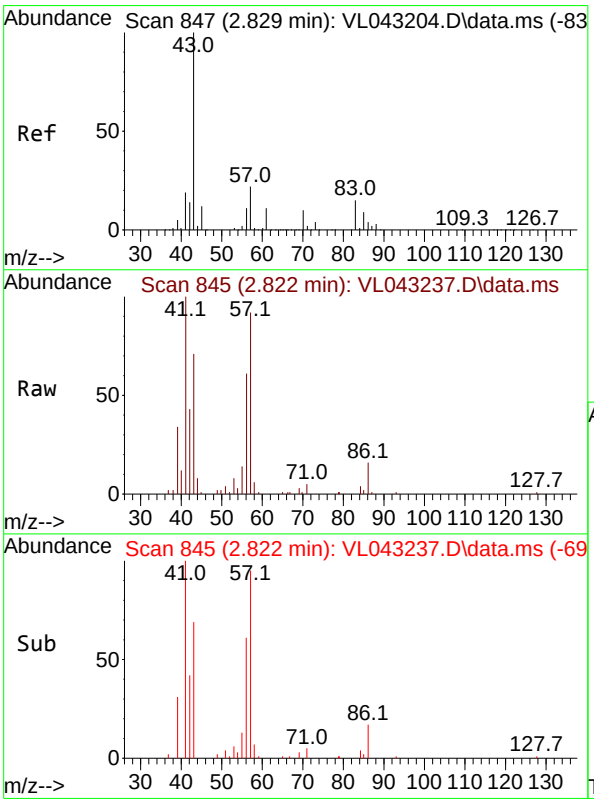
#23
Vinyl Acetate
Concen: 0.066 ppbv
RT: 2.454 min Scan# 7
Delta R.T. -0.004 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion: 43 Resp: 1129

Ion	Ratio	Lower	Upper
43	100		
86	0.3	6.2	9.2#
42	13.8	8.0	12.0#
44	32.0	4.0	6.0#

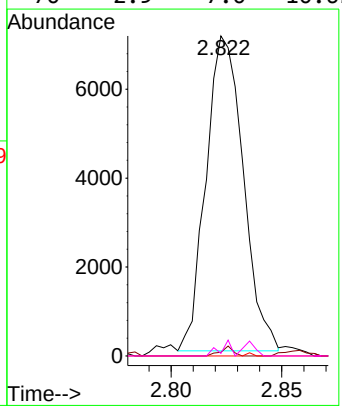


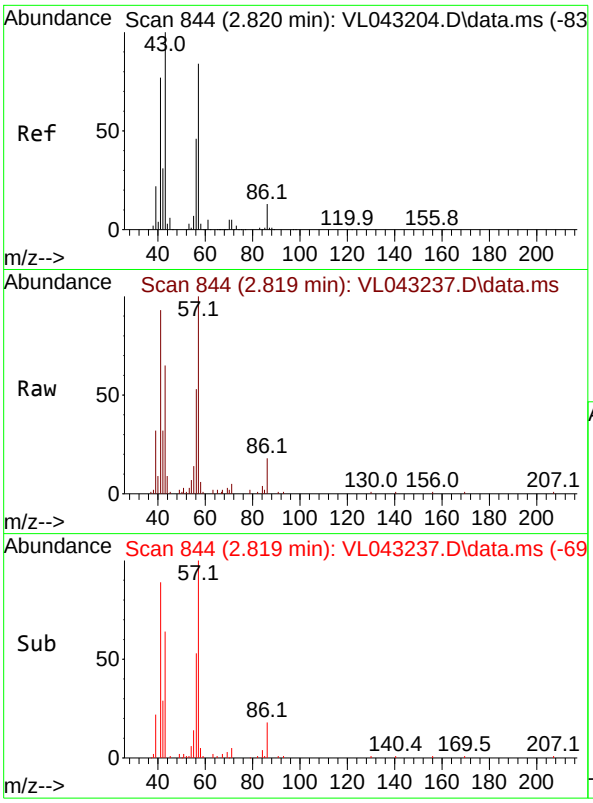


#25
Ethyl Acetate
Concen: 0.269 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.007 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 43 Resp: 8280

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	0.4	7.0	10.4#
70	2.9	7.0	10.6#



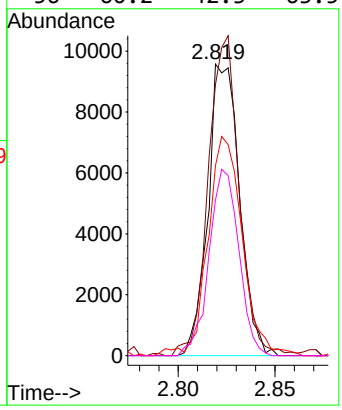


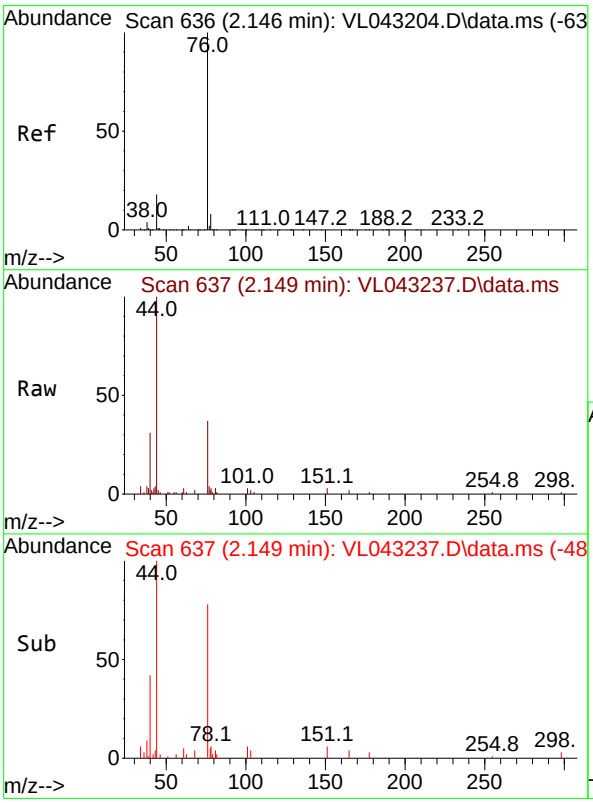
#26
Hexane
Concen: 0.807 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion: 57 Resp: 10878

Ion	Ratio	Lower	Upper
57	100		
41	108.0	74.6	111.8
43	81.7	179.0	268.4#
56	60.2	42.3	63.5

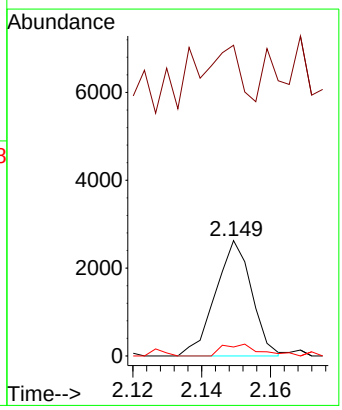


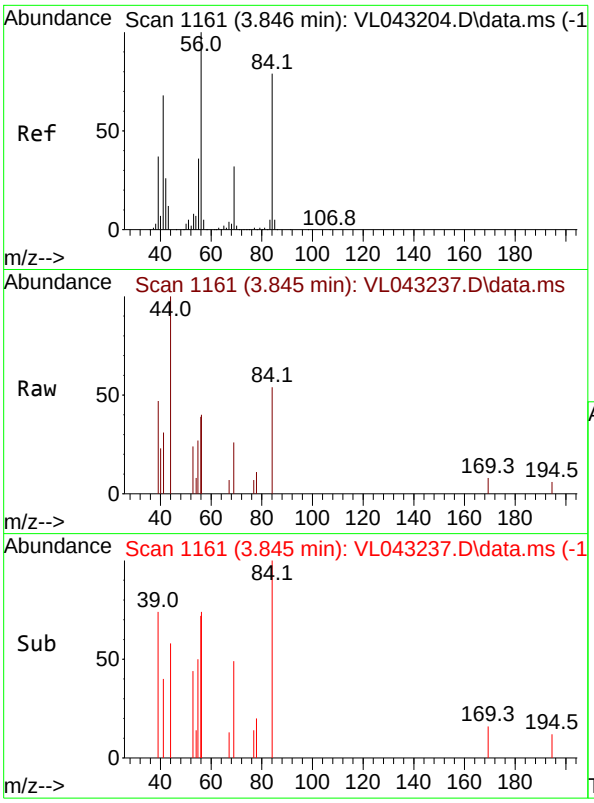


#27
Carbon Disulfide
Concen: 0.139 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 76 Resp: 1914

Ion	Ratio	Lower	Upper
76	100		
44	575.5	16.1	24.1#
78	11.4	9.6	14.4



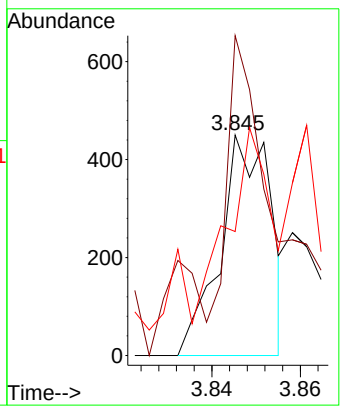


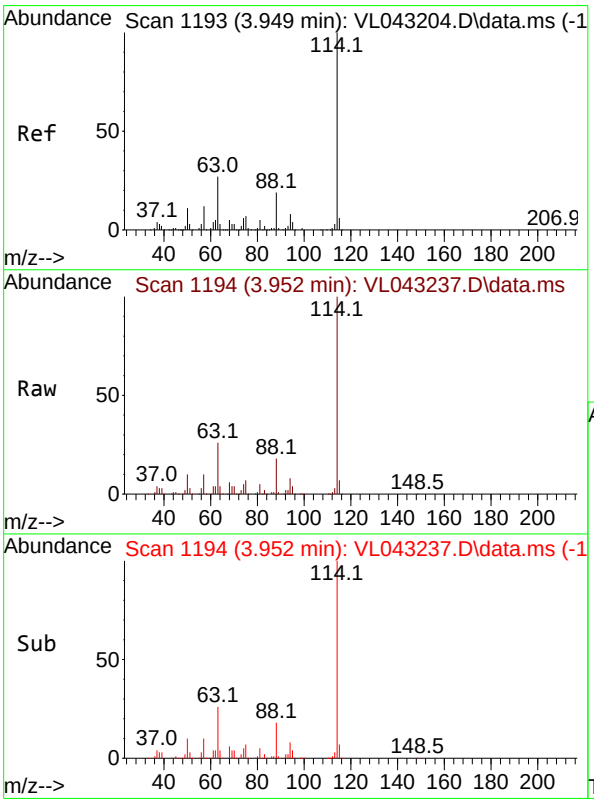
#30
Cyclohexane
Concen: 0.031 ppbv
RT: 3.845 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion: 84 Resp: 356

Ion	Ratio	Lower	Upper
84	100		
56	200.8	104.7	157.1#
41	0.0	69.0	103.6#

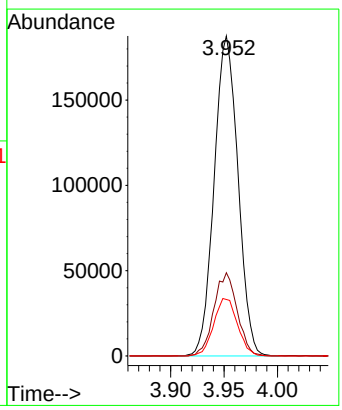


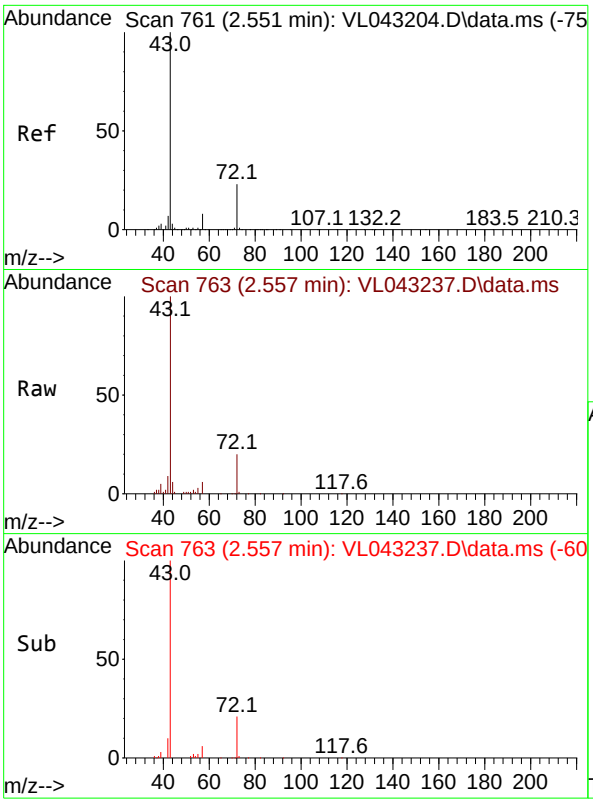


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:114 Resp: 290774

Ion	Ratio	Lower	Upper
114	100		
63	25.5	21.0	31.6
88	18.0	14.9	22.3



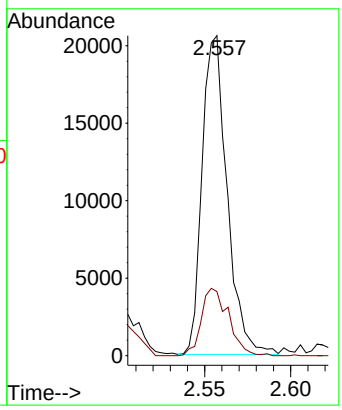


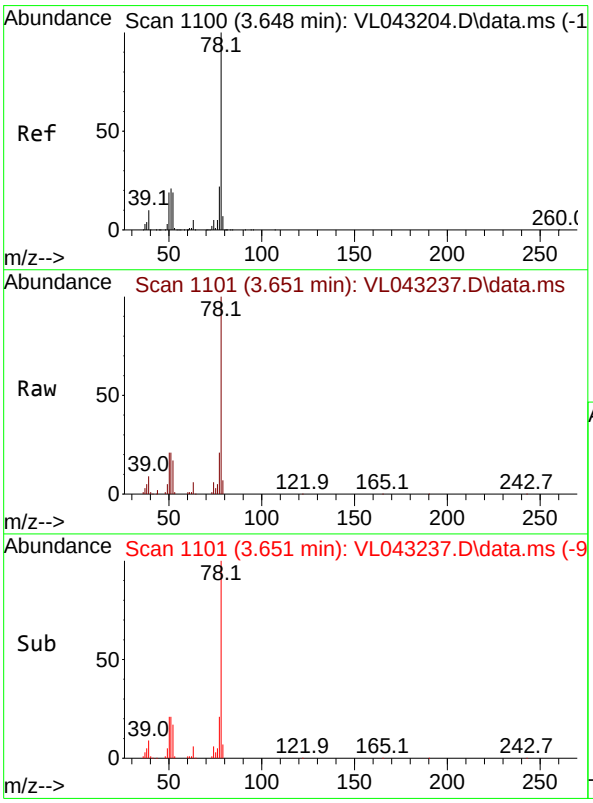
#34
2-Butanone
Concen: 1.012 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion: 43 Resp: 20773

Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.1	27.1

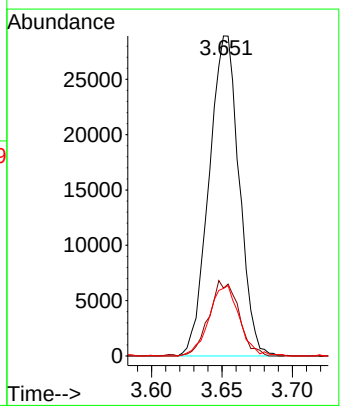


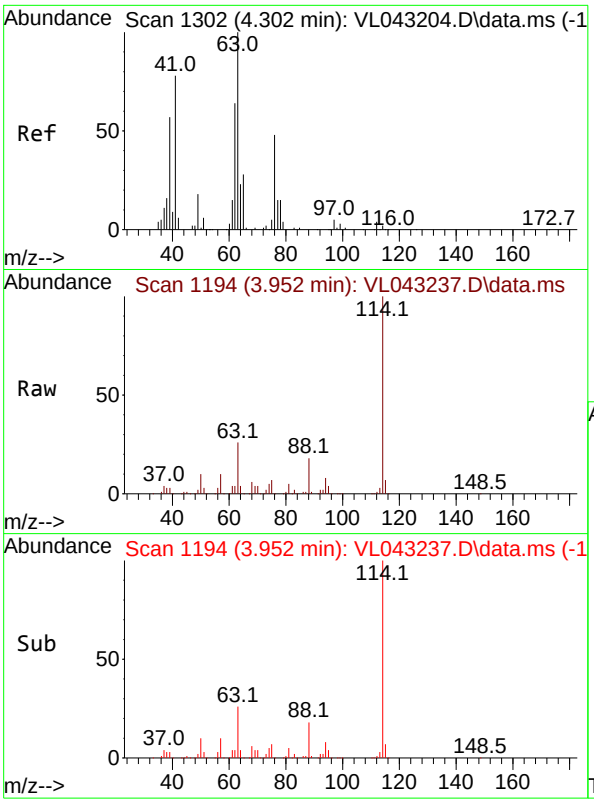


#36
Benzene
Concen: 1.550 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 78 Resp: 43150

Ion	Ratio	Lower	Upper
78	100		
77	21.2	17.5	26.3
50	21.1	15.5	23.3



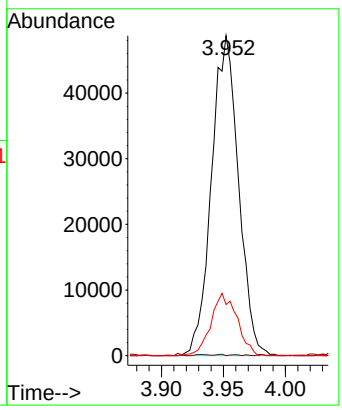


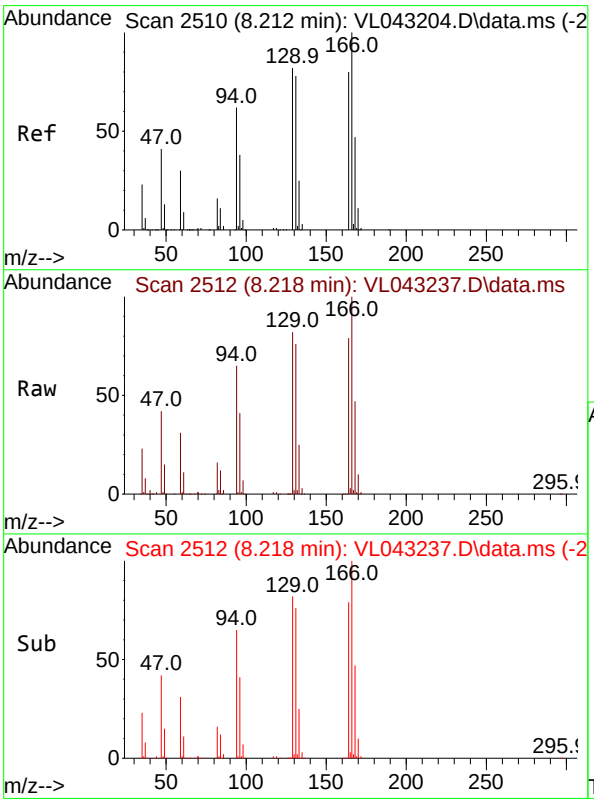
#39
1,2-Dichloropropane
Concen: 7.273 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.350 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion: 63 Resp: 74125

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.6	93.8#
62	16.0	51.0	76.6#

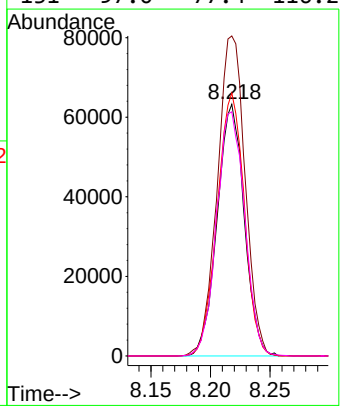


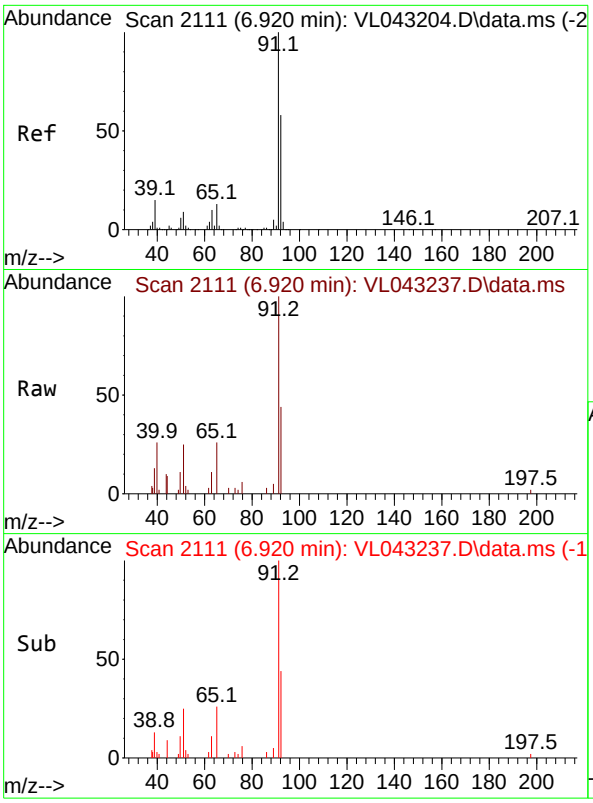


#52
Tetrachloroethene
Concen: 9.608 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:164 Resp: 99519

Ion	Ratio	Lower	Upper
164	100		
166	127.1	99.4	149.2
129	104.5	81.8	122.8
131	97.0	77.4	116.2



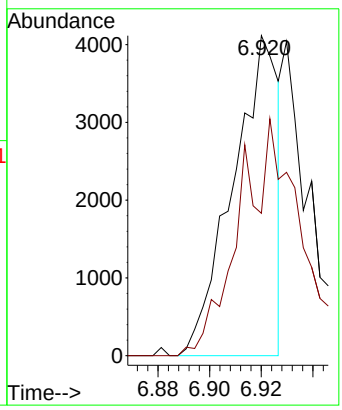


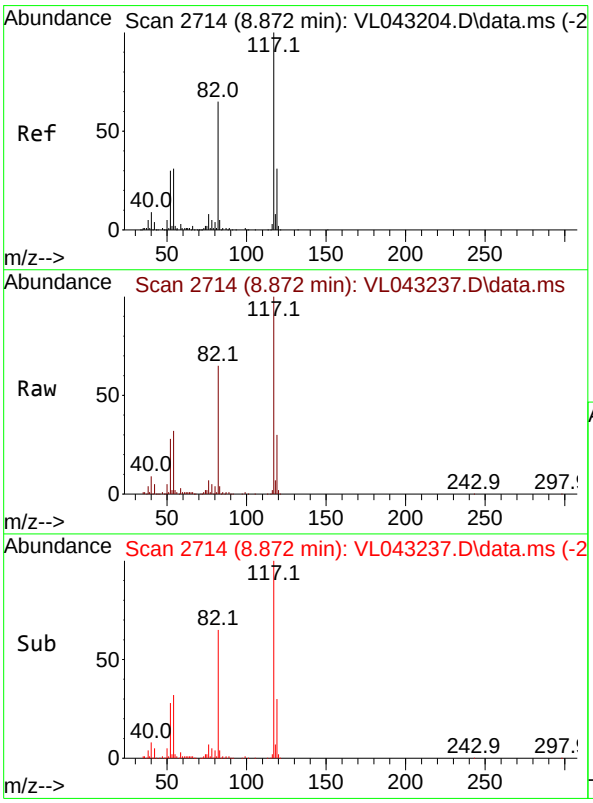
#53
Toluene
Concen: 0.152 ppbv
RT: 6.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion: 91 Resp: 5000

Ion	Ratio	Lower	Upper
91	100		
92	99.9	47.4	71.0#

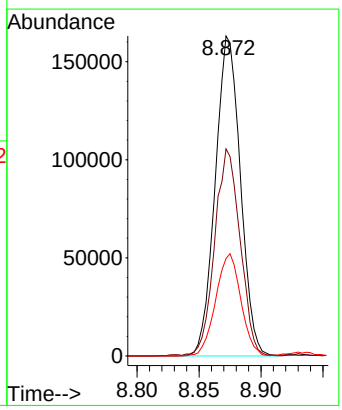


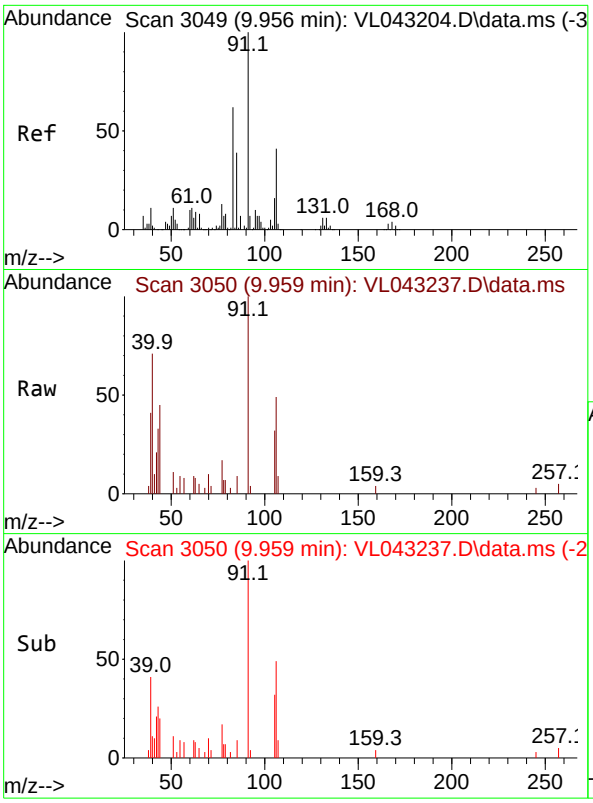


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:117 Resp: 231142

Ion	Ratio	Lower	Upper
117	100		
82	65.5	56.1	84.1
119	32.0	25.0	37.6



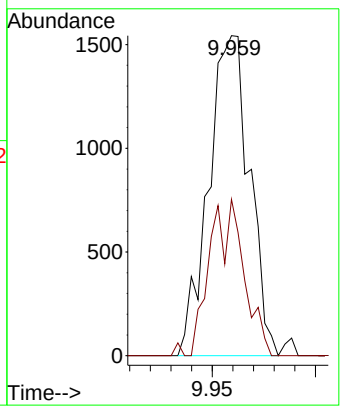


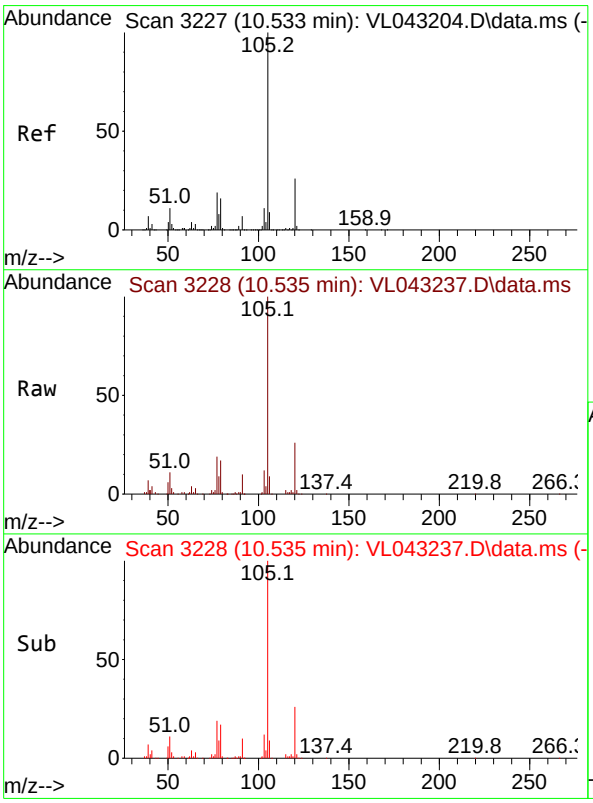
#60
o-Xylene
Concen: 0.060 ppbv
RT: 9.959 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion: 91 Resp: 2126

Ion	Ratio	Lower	Upper
91	100		
106	41.3	20.9	62.8

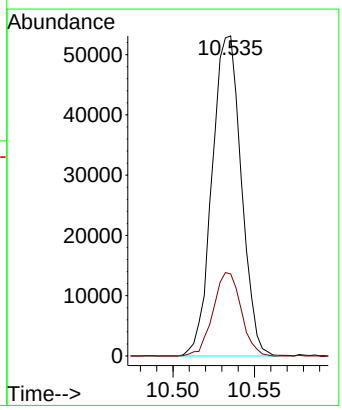


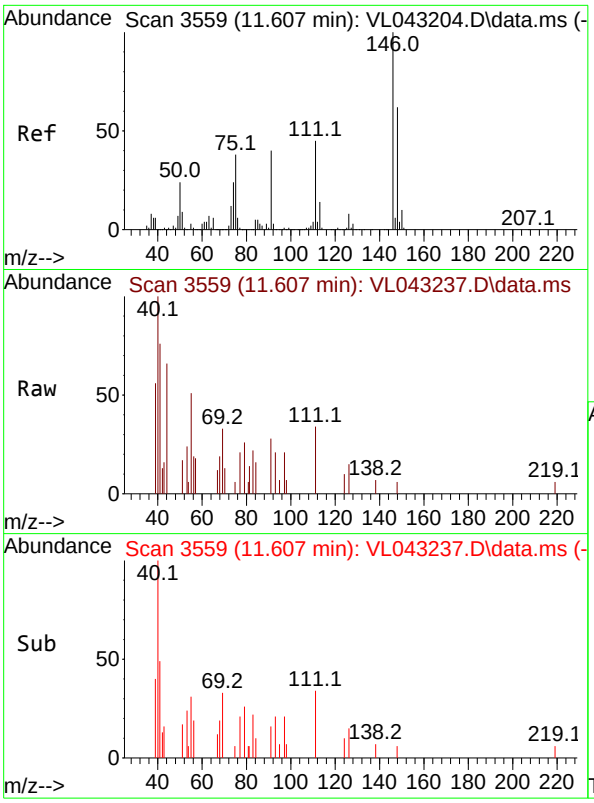


#62
Isopropylbenzene
Concen: 1.039 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:105 Resp: 66231

Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8



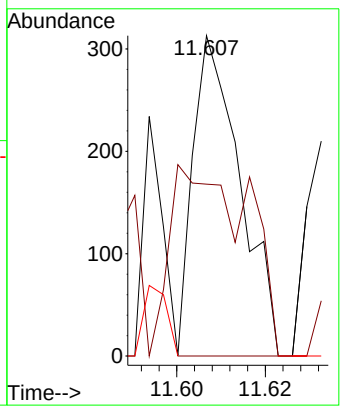


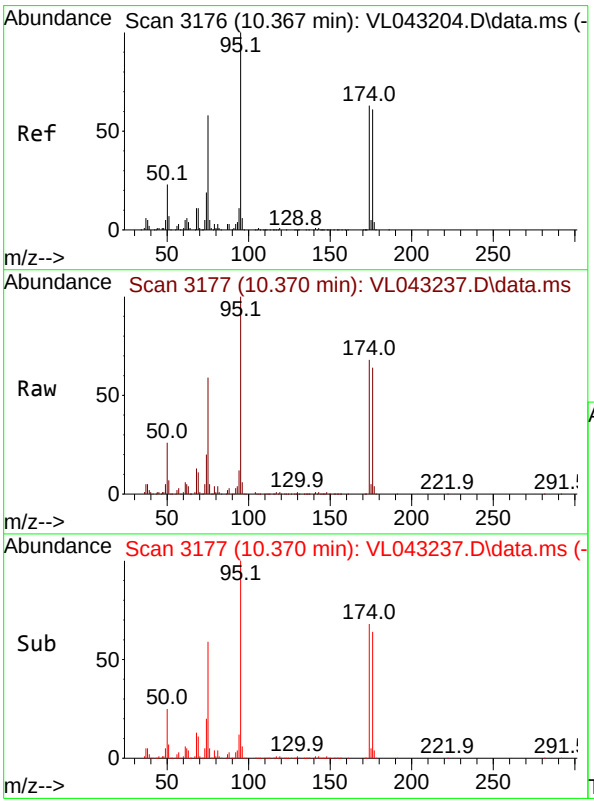
#66
Benzyl Chloride
Concen: 0.040 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion: 91 Resp: 232

Ion	Ratio	Lower	Upper
91	100		
126	150.9	14.4	21.6#
128	0.0	4.6	6.8#

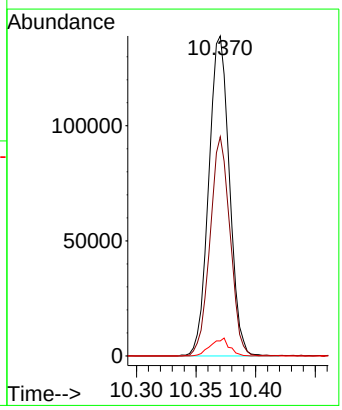


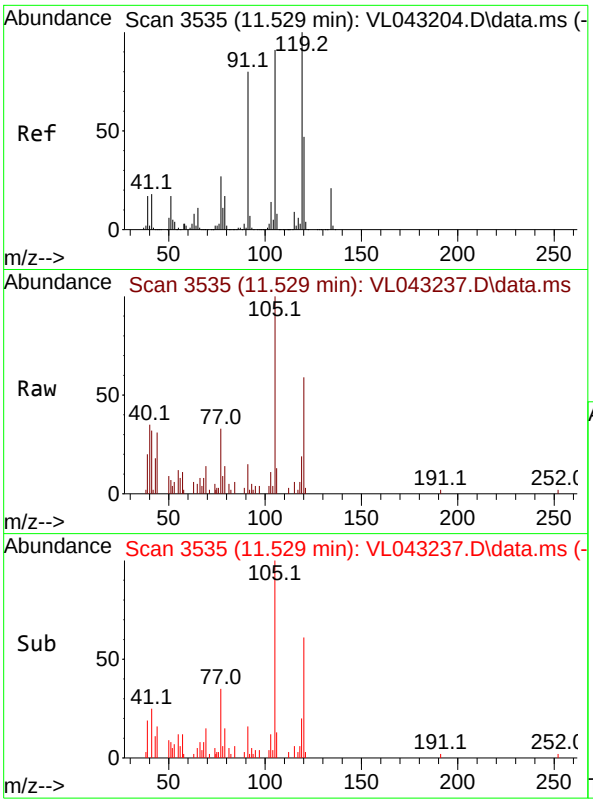


#68
1-Bromo-4-Fluorobenzene
Concen: 9.874 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 95 Resp: 167299

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



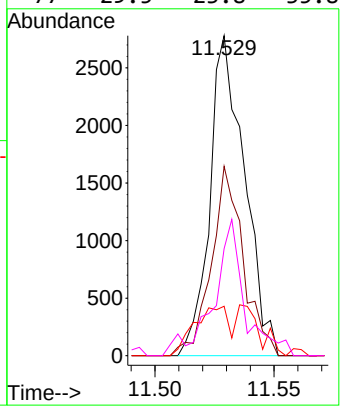


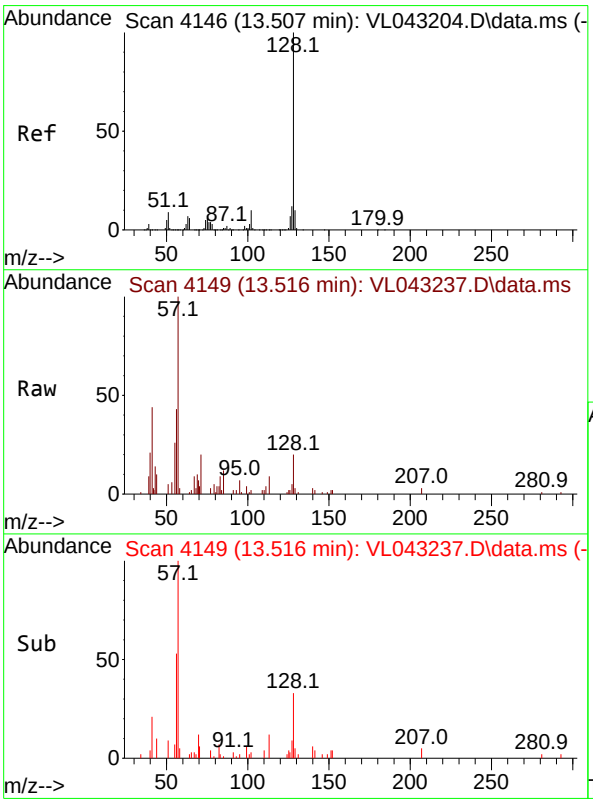
#74
1,2,4-Trimethylbenzene
Concen: 0.071 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

Tgt Ion:105 Resp: 2816

Ion	Ratio	Lower	Upper
105	100		
120	62.3	41.7	62.5
91	13.7	70.0	105.0#
77	29.5	23.8	35.8

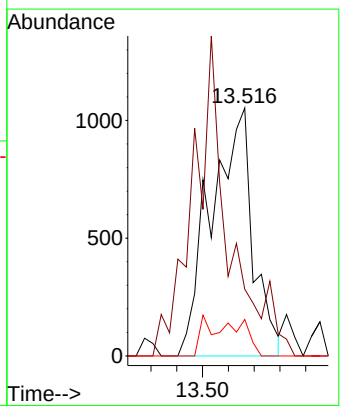




#79
Naphthalene
Concen: 0.034 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.009 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:128 Resp: 1186

Ion	Ratio	Lower	Upper
128	100		
127	17.9	9.9	14.9#
129	14.7	8.4	12.6#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043238.D
Acq On : 19 Nov 2025 14:25
Operator : SY/MD
Sample : Q3626-04 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Quant Time: Nov 20 00:05:15 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

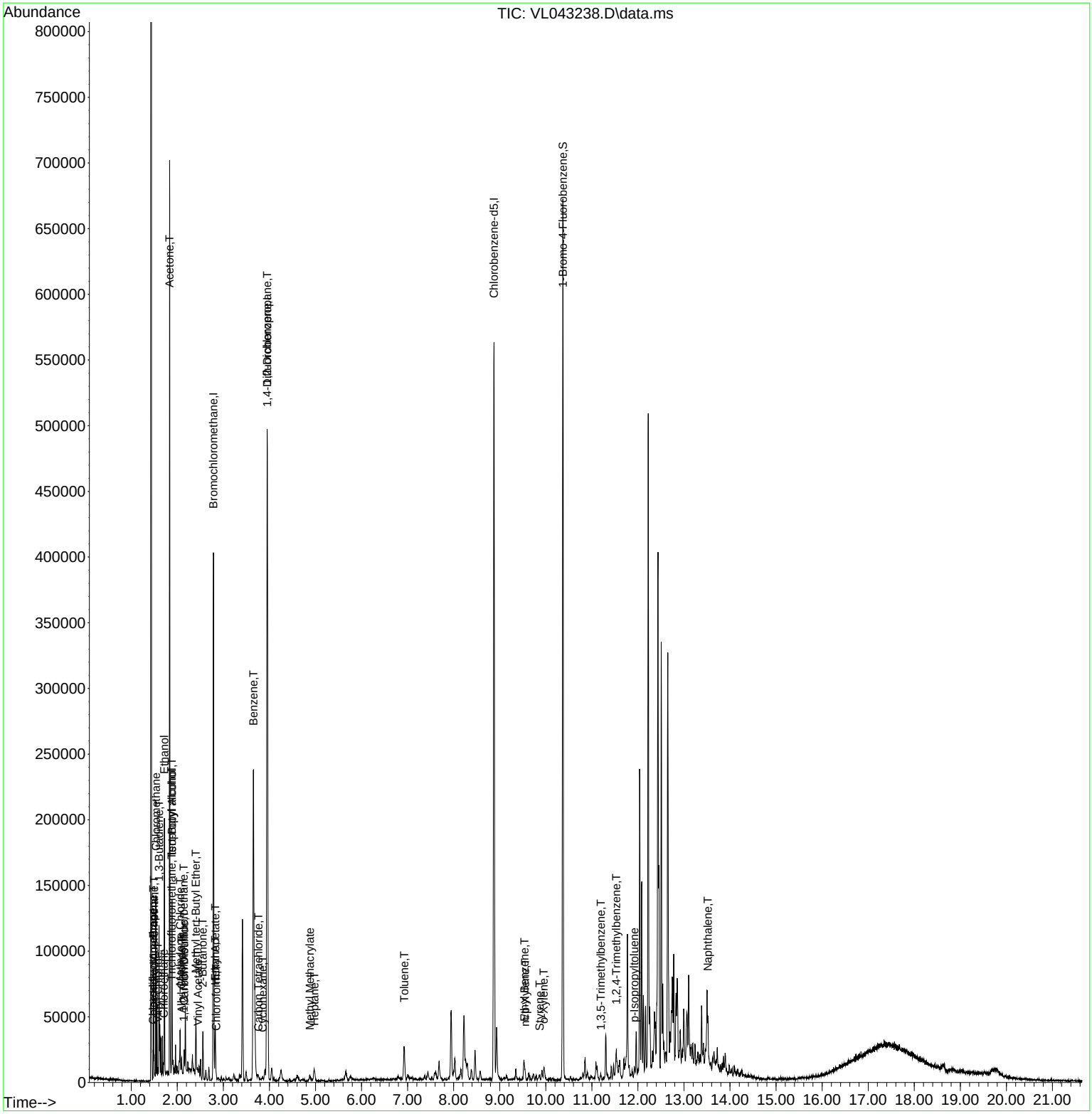
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	103574	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	291331	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	223974	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	163862	9.981	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3872	0.265	ppbv		93
3) Chlorodifluoromethane	1.476	51	2102	0.146	ppbv		97
4) Chloromethane	1.534	50	40516	7.418	ppbv		99
5) Vinyl Chloride	1.580	62	1563	0.262	ppbv	#	88
7) Chloroethane	1.706	64	2300	0.989	ppbv	#	79
9) Propene	1.482	41	12538	2.055	ppbv	#	1
10) Heptane	4.975	43	1682	0.093	ppbv	#	1
11) Trichlorofluoromethane	1.877	101	2019	0.143	ppbv		94
12) 1,1,2-Trichlorotrifluo...	2.140	101	540	0.049	ppbv		90
13) Ethanol	1.719	45	68935	32.134	ppbv		98
15) Acetone	1.832	43	301895	20.980	ppbv		100
16) 1,3-Butadiene	1.602	39	17830	2.779	ppbv	#	57
17) tert-Butyl alcohol	1.884	59	1915	0.101	ppbv		95
19) Isopropyl Alcohol	1.884	45	51890	6.381	ppbv	#	1
20) Methylene Chloride	2.062	84	4882	0.398	ppbv	#	80
21) Allyl Chloride	2.094	41	1122	0.116	ppbv	#	22
23) Vinyl Acetate	2.450	43	2222	0.128	ppbv	#	90
25) Ethyl Acetate	2.826	43	7019	0.226	ppbv	#	88
26) Hexane	2.822	57	9063	0.666	ppbv	#	40
27) Carbon Disulfide	2.149	76	9305	0.670	ppbv	#	48
28) Methyl tert-Butyl Ether	2.402	73	329	0.049	ppbv	#	1
29) Chloroform	2.848	83	762	0.039	ppbv	#	82
30) Cyclohexane	3.855	84	525	0.046	ppbv	#	1
34) 2-Butanone	2.554	43	22054	1.072	ppbv		99
35) Carbon Tetrachloride	3.761	117	737	0.033	ppbv	#	46
36) Benzene	3.654	78	146126	5.237	ppbv		97
39) 1,2-Dichloropropane	3.952	63	73157	7.164	ppbv	#	25
43) Methyl Methacrylate	4.878	69	580	0.039	ppbv	#	1
53) Toluene	6.927	91	9216	0.279	ppbv	#	29
58) Ethyl Benzene	9.538	91	2065	0.048	ppbv		100
59) m/p-Xylene	9.551	91	1363	0.039	ppbv	#	31
60) o-Xylene	9.956	91	3821	0.111	ppbv		93
61) Styrene	9.869	104	1102	0.073	ppbv		98
69) p-Isopropyltoluene	11.924	119	2269	0.035	ppbv	#	87
73) 1,3,5-Trimethylbenzene	11.196	105	1266	0.036	ppbv	#	64
74) 1,2,4-Trimethylbenzene	11.532	105	4967	0.129	ppbv	#	53
79) Naphthalene	13.516	128	1170	0.034	ppbv	#	28

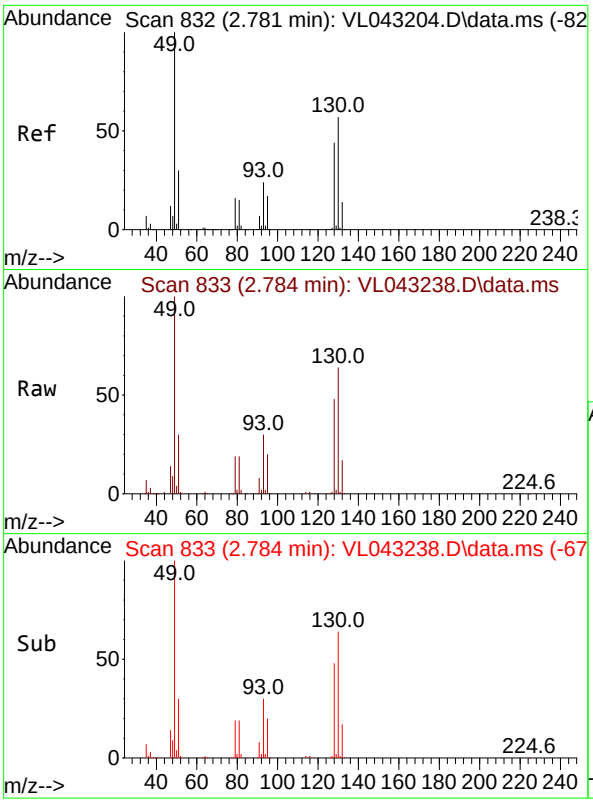
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043238.D
Acq On : 19 Nov 2025 14:25
Operator : SY/MD
Sample : Q3626-04 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Quant Time: Nov 20 00:05:15 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



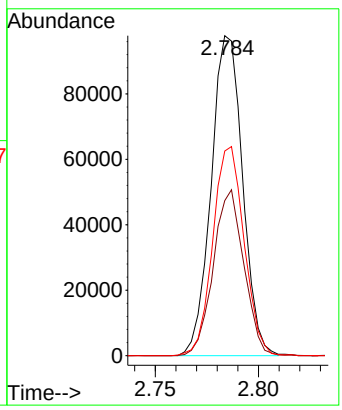


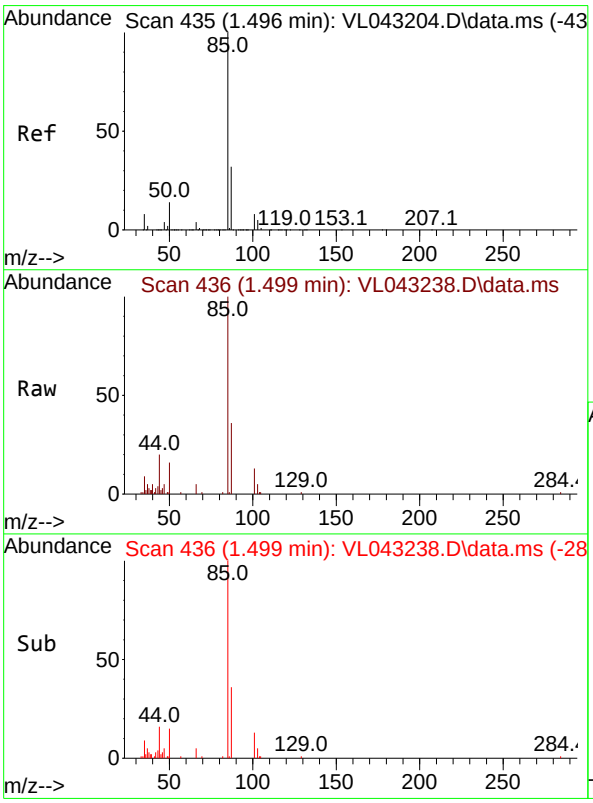
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 49 Resp: 103574

Ion	Ratio	Lower	Upper
49	100		
128	50.4	23.0	69.0
130	65.0	29.9	89.7

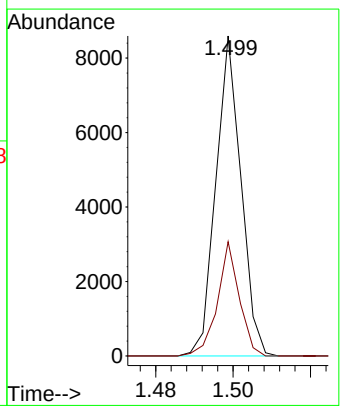


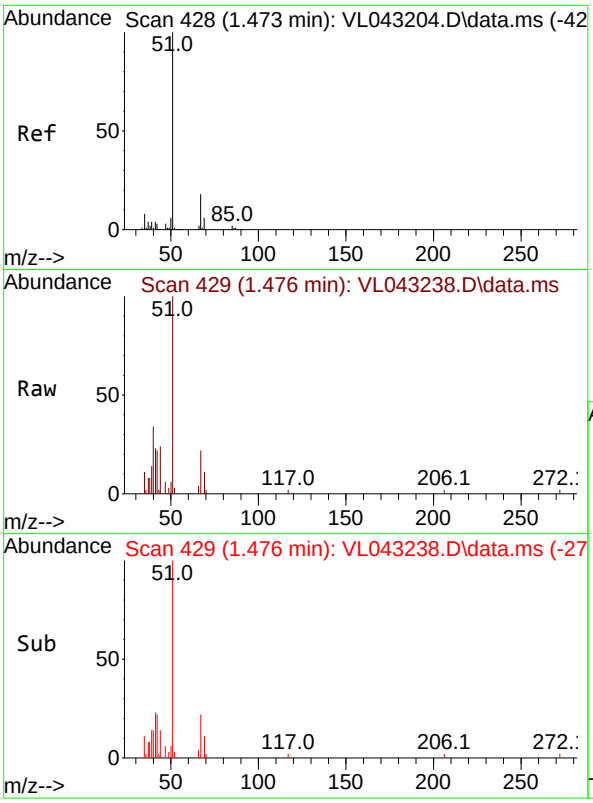


#2
Dichlorodifluoromethane
Concen: 0.265 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 85 Resp: 3872

Ion	Ratio	Lower	Upper
85	100		
87	35.7	25.4	38.2



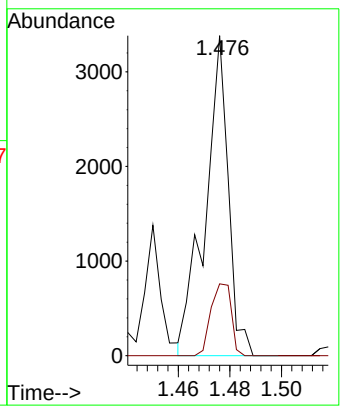


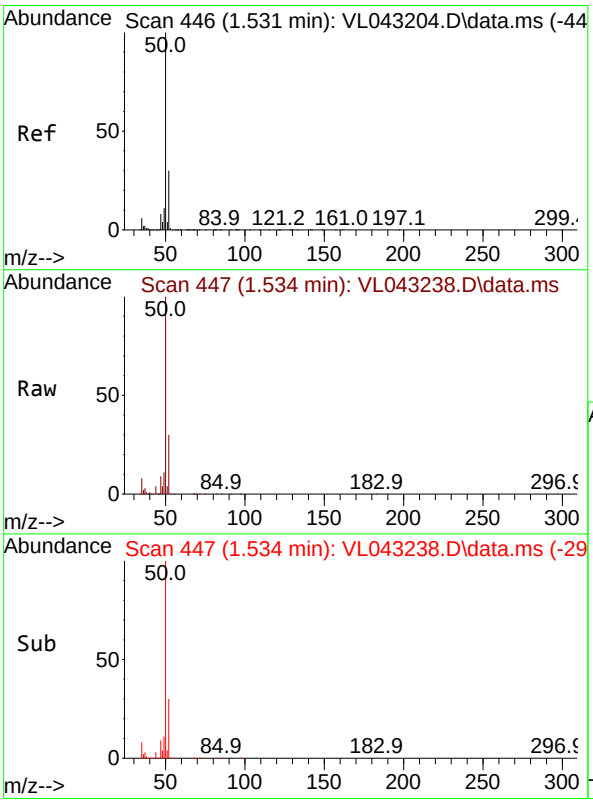
#3
Chlorodifluoromethane
Concen: 0.146 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 51 Resp: 2102

Ion	Ratio	Lower	Upper
51	100		
67	19.7	14.9	22.3

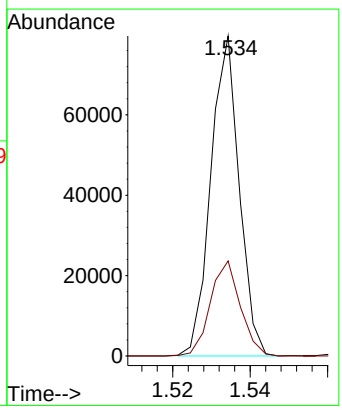


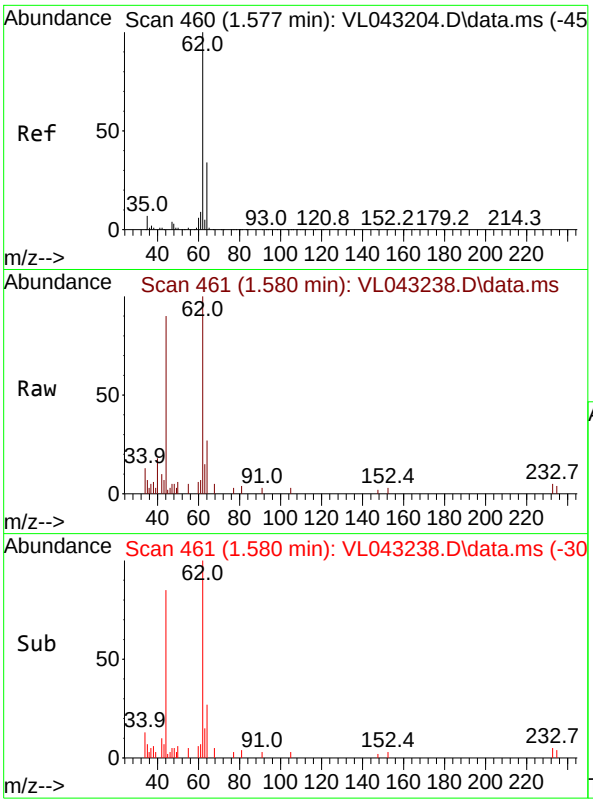


#4
Chloromethane
Concen: 7.418 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 50 Resp: 40516

Ion	Ratio	Lower	Upper
50	100		
52	29.7	24.1	36.1



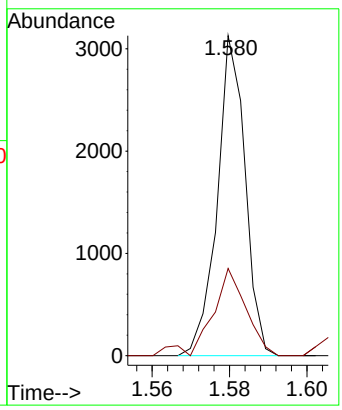


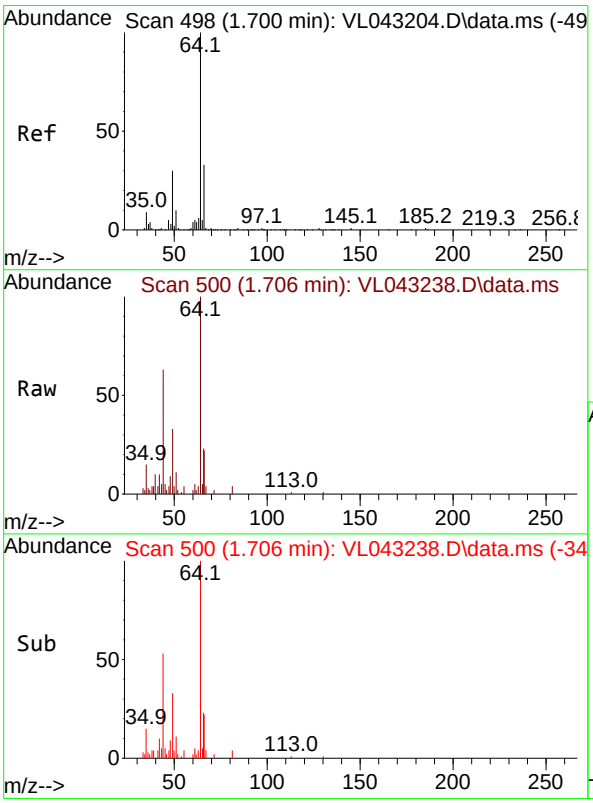
#5
Vinyl Chloride
Concen: 0.262 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 62 Resp: 1563

Ion	Ratio	Lower	Upper
62	100		
64	27.3	27.3	40.9#

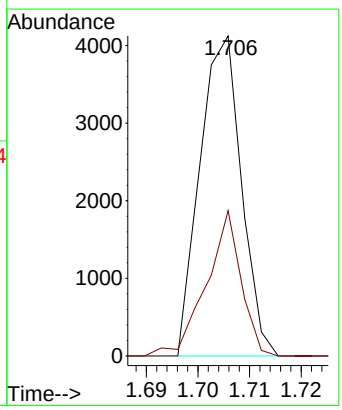


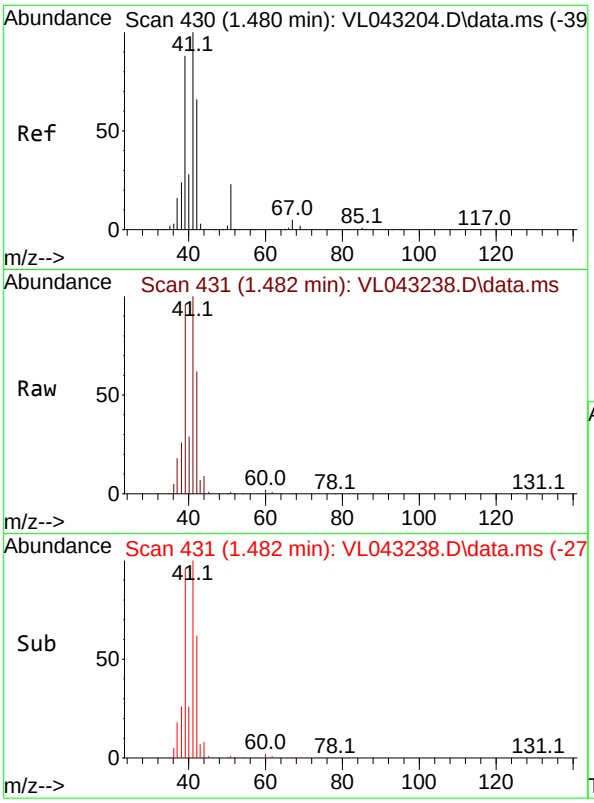


#7
Chloroethane
Concen: 0.989 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 64 Resp: 2300

Ion	Ratio	Lower	Upper
64	100		
66	45.4	26.8	40.2#



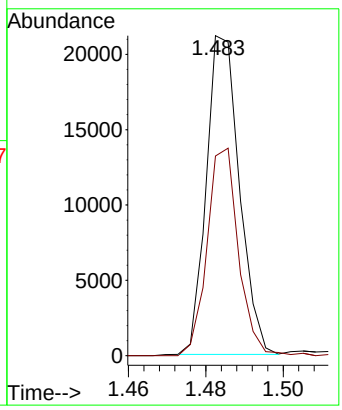


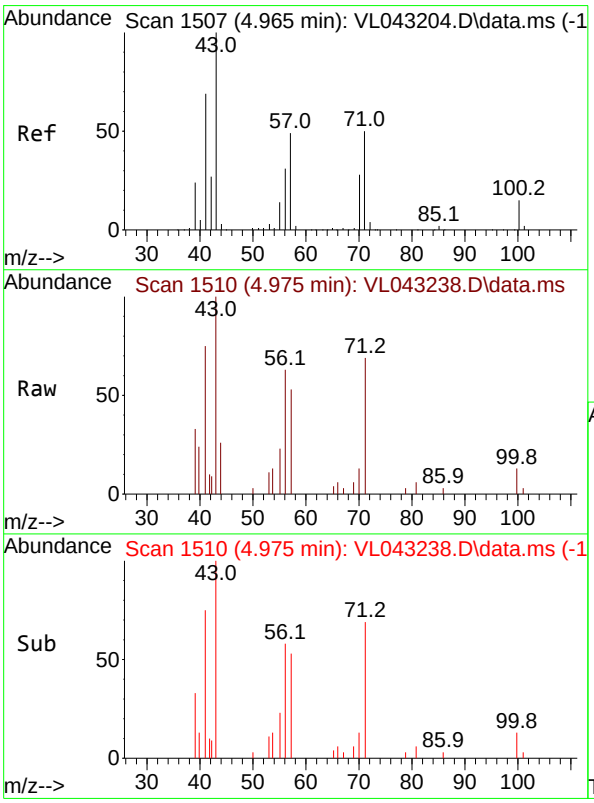
#9
Propene
Concen: 2.055 ppbv
RT: 1.482 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 41 Resp: 12538

Ion	Ratio	Lower	Upper
41	100		
42	62.4	3.7	5.5#

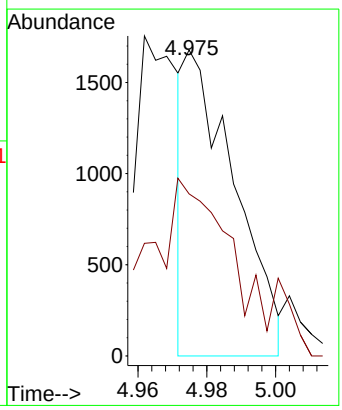


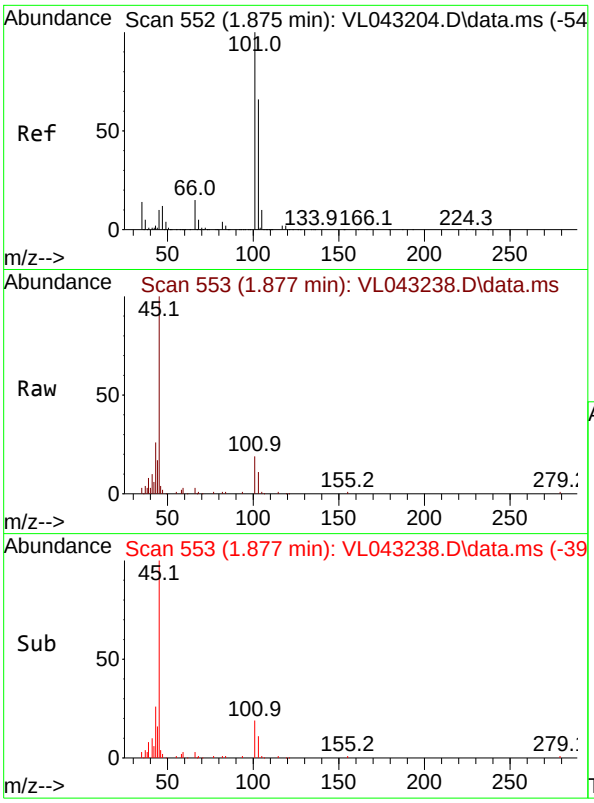


#10
Heptane
Concen: 0.093 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.009 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 43 Resp: 1682

Ion	Ratio	Lower	Upper
43	100		
57	118.0	39.7	59.5#



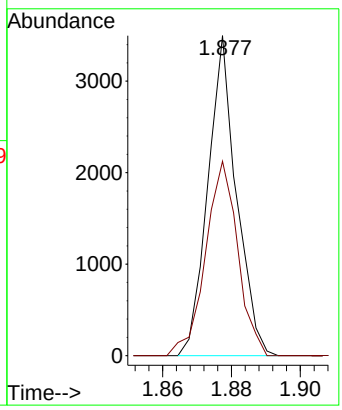


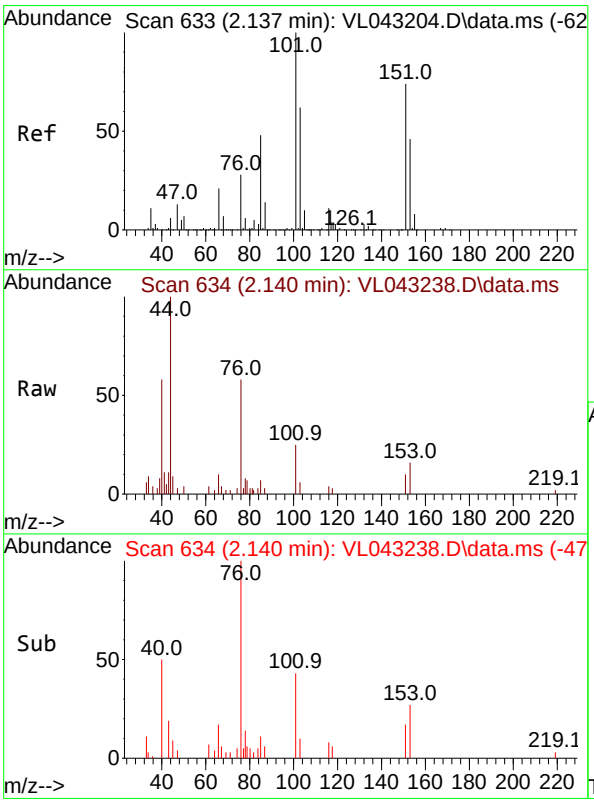
#11
Trichlorofluoromethane
Concen: 0.143 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion:101 Resp: 2019

Ion	Ratio	Lower	Upper
101	100		
103	60.7	52.6	79.0

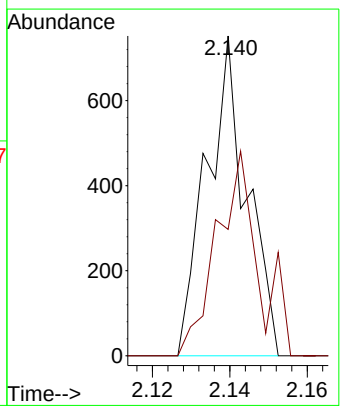


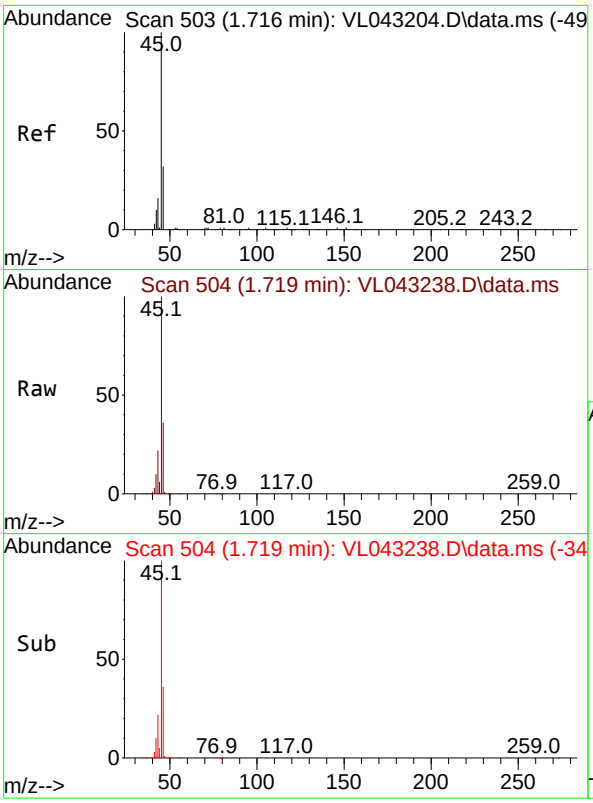


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.049 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion:101 Resp: 540

Ion	Ratio	Lower	Upper
101	100		
151	65.6	59.2	88.8



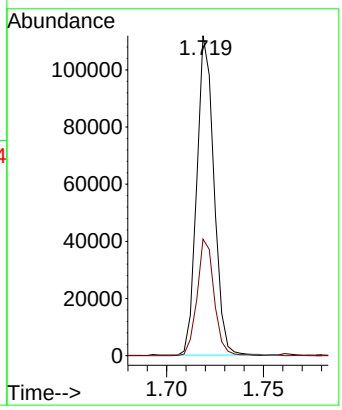


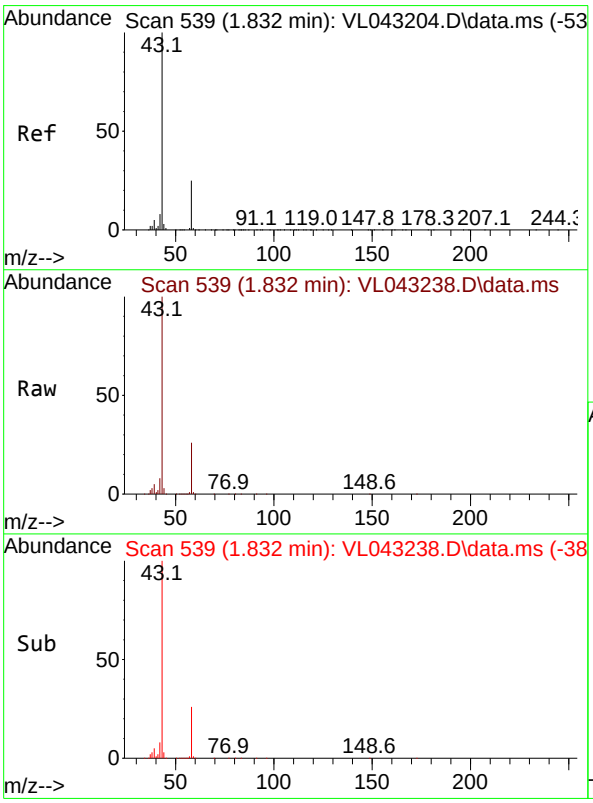
#13
Ethanol
Concen: 32.134 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 45 Resp: 68935

Ion	Ratio	Lower	Upper
45	100		
46	36.5	15.0	59.8

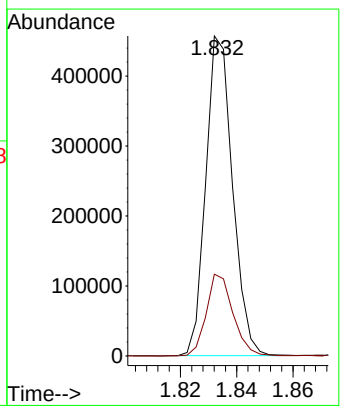


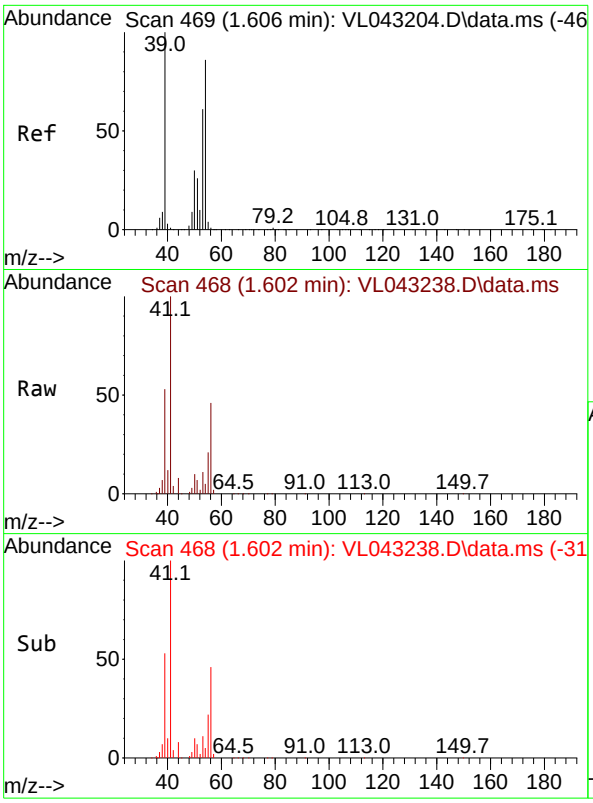


#15
Acetone
Concen: 20.980 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 43 Resp: 301895

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1



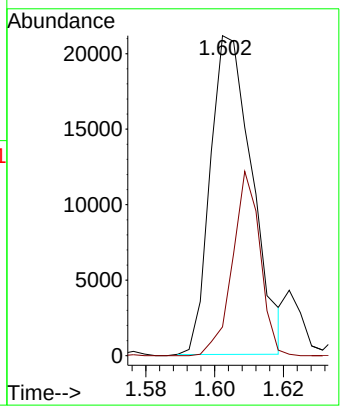


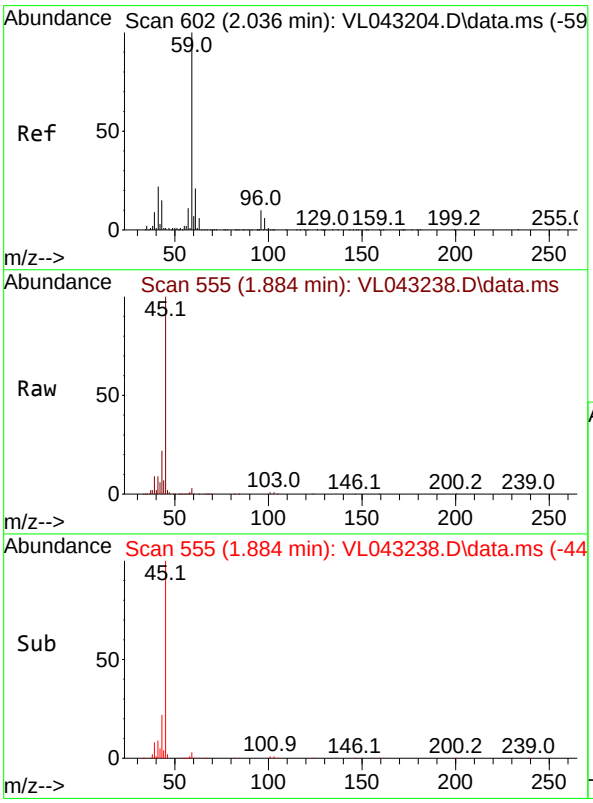
#16
1,3-Butadiene
Concen: 2.779 ppbv
RT: 1.602 min Scan# 4
Delta R.T. -0.004 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 39 Resp: 17830

Ion	Ratio	Lower	Upper
39	100		
54	38.0	59.4	89.2#

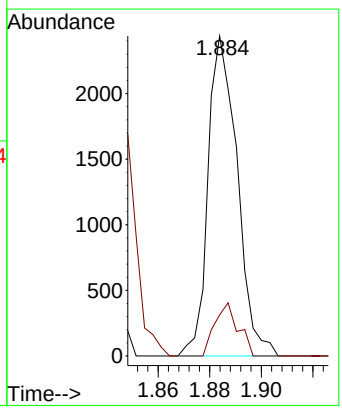


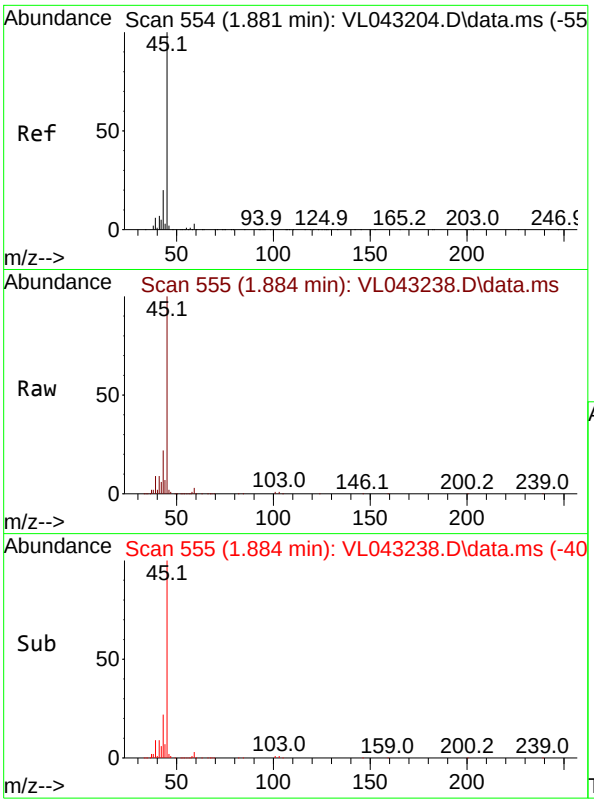


#17
tert-Butyl alcohol
Concen: 0.101 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.153 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 59 Resp: 1915

Ion	Ratio	Lower	Upper
59	100		
57	13.3	9.0	13.4



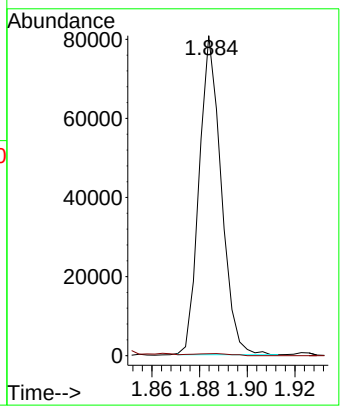


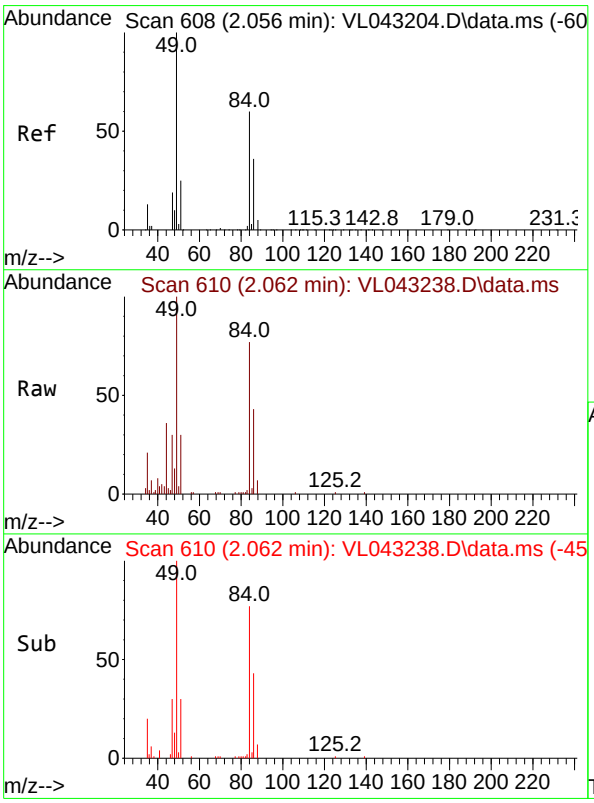
#19
Isopropyl Alcohol
Concen: 6.381 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 45 Resp: 51890

Ion	Ratio	Lower	Upper
45	100		
58	150.5	31.3	46.9#

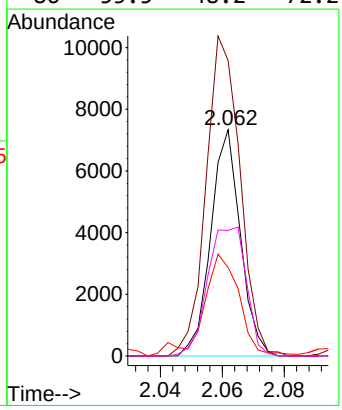


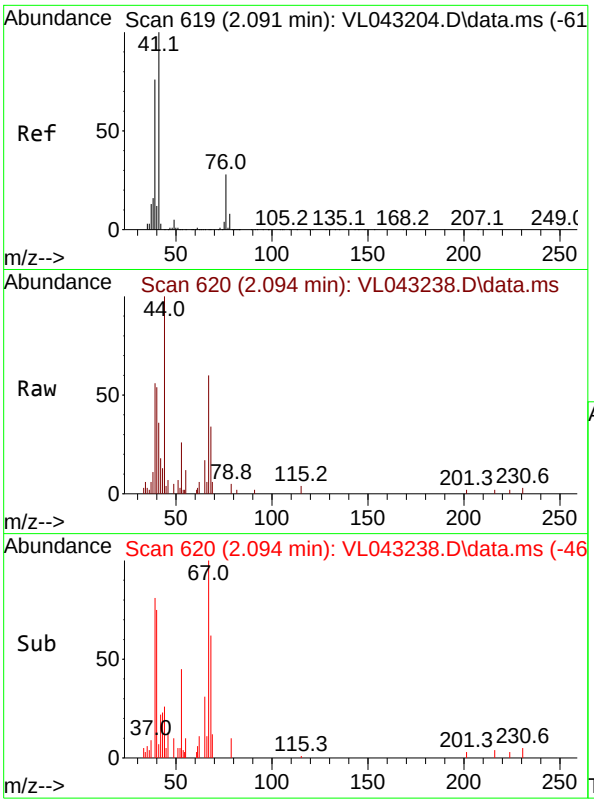


#20
Methylene Chloride
Concen: 0.398 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 84 Resp: 4882

Ion	Ratio	Lower	Upper
84	100		
49	128.7	132.9	199.3#
51	37.8	34.8	52.2
86	55.5	48.2	72.2



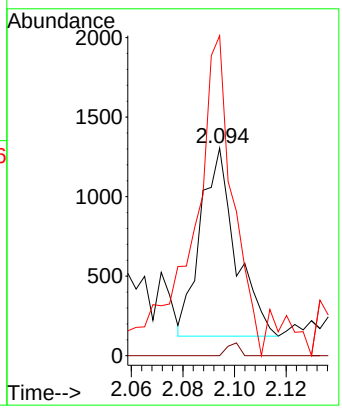


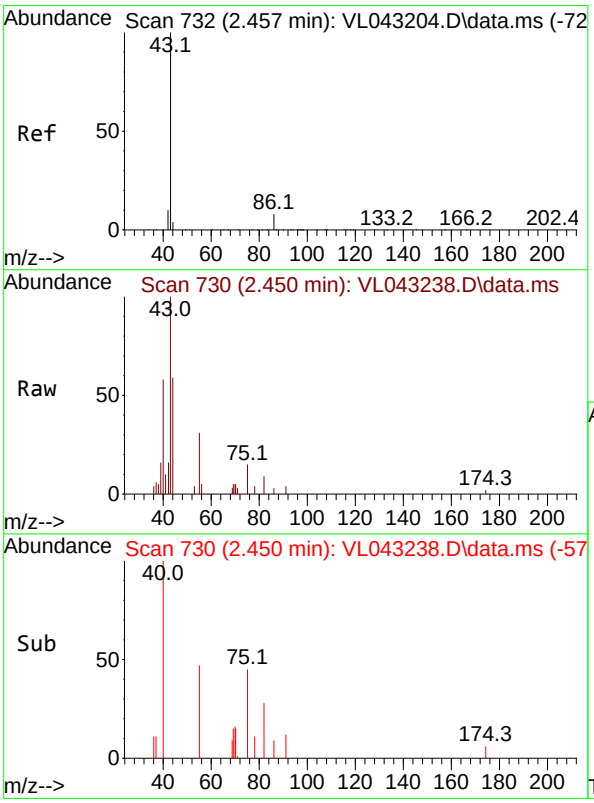
#21
Allyl Chloride
Concen: 0.116 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 41 Resp: 1122

Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.1	33.1#
39	151.5	61.0	91.4#

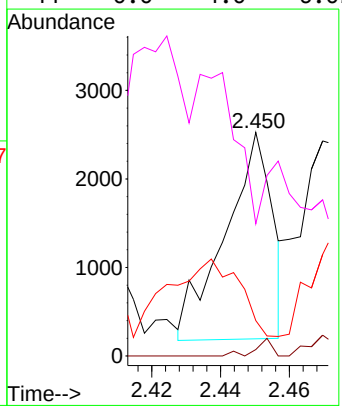


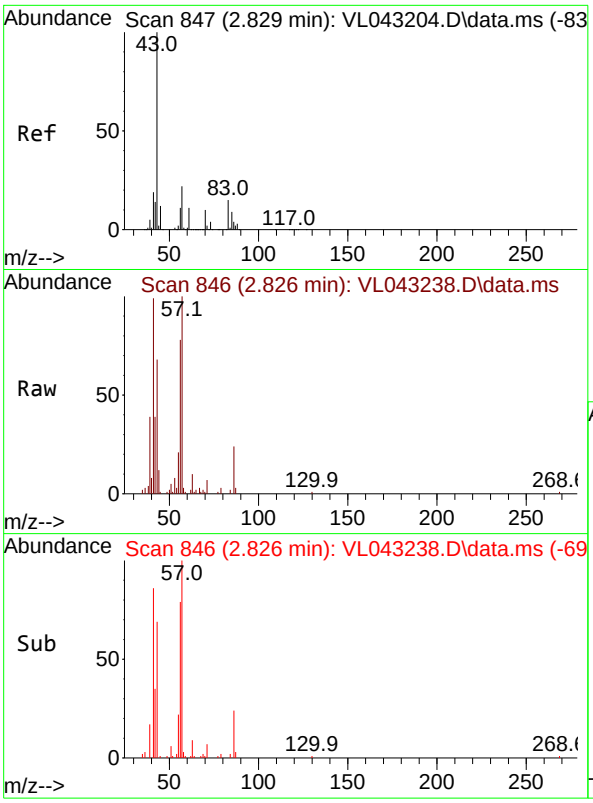


#23
Vinyl Acetate
Concen: 0.128 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.007 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 43 Resp: 2222

Ion	Ratio	Lower	Upper
43	100		
86	3.3	6.2	9.2#
42	8.0	8.0	12.0
44	0.0	4.0	6.0#



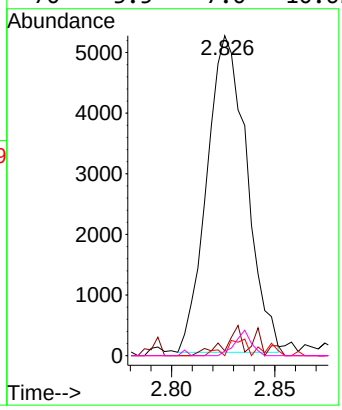


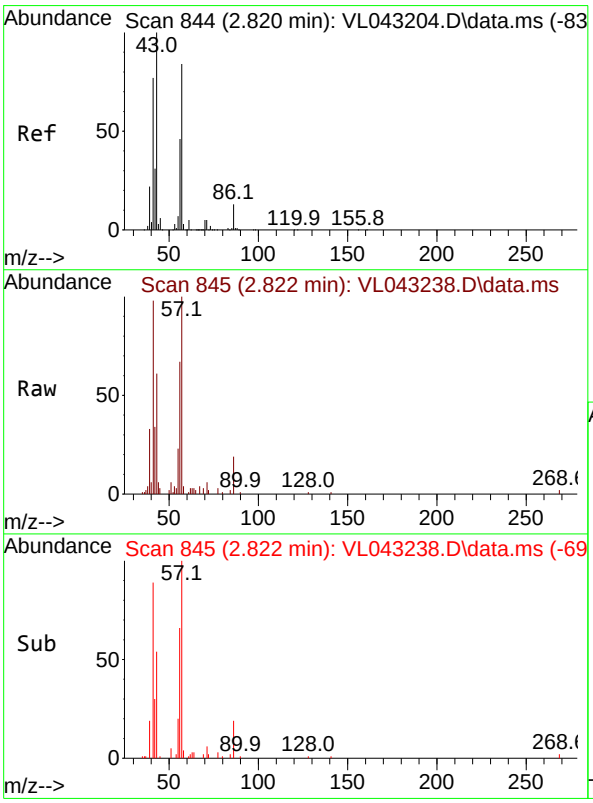
#25
Ethyl Acetate
Concen: 0.226 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.004 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 43 Resp: 7019

Ion	Ratio	Lower	Upper
43	100		
45	6.5	8.1	12.1#
61	4.1	7.0	10.4#
70	3.5	7.0	10.6#

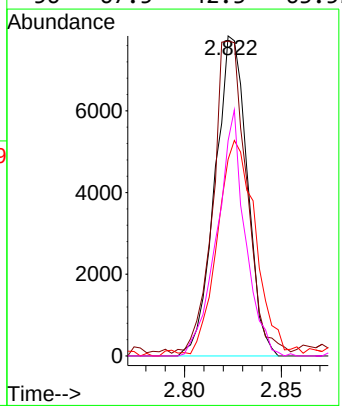


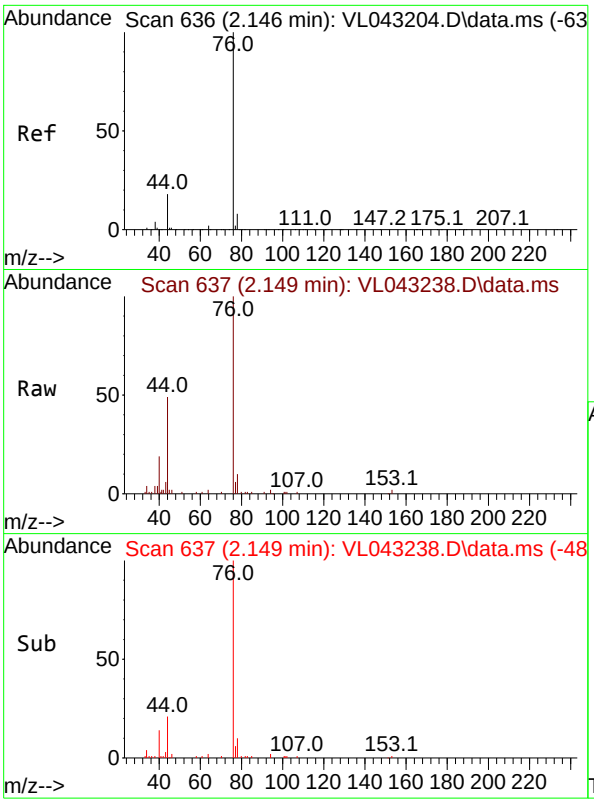


#26
Hexane
Concen: 0.666 ppbv
RT: 2.822 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 57 Resp: 9063

Ion	Ratio	Lower	Upper
57	100		
41	111.0	74.6	111.8
43	81.6	179.0	268.4#
56	67.5	42.3	63.5#



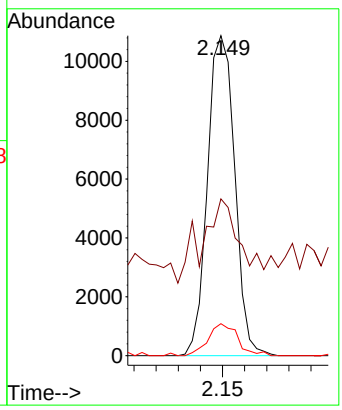


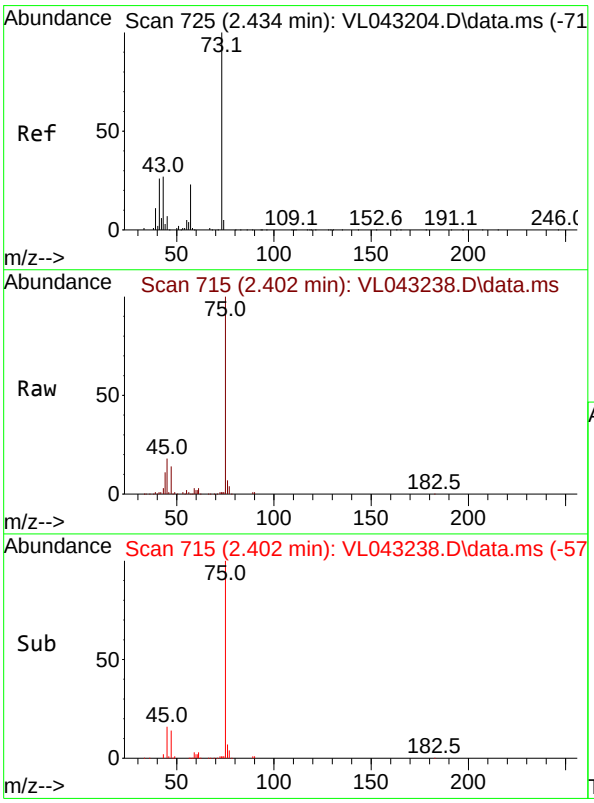
#27
Carbon Disulfide
Concen: 0.670 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 76 Resp: 9305

Ion	Ratio	Lower	Upper
76	100		
44	57.4	16.1	24.1#
78	10.8	9.6	14.4

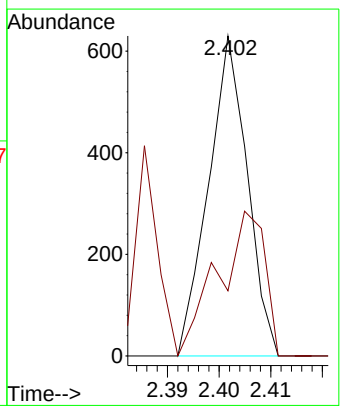


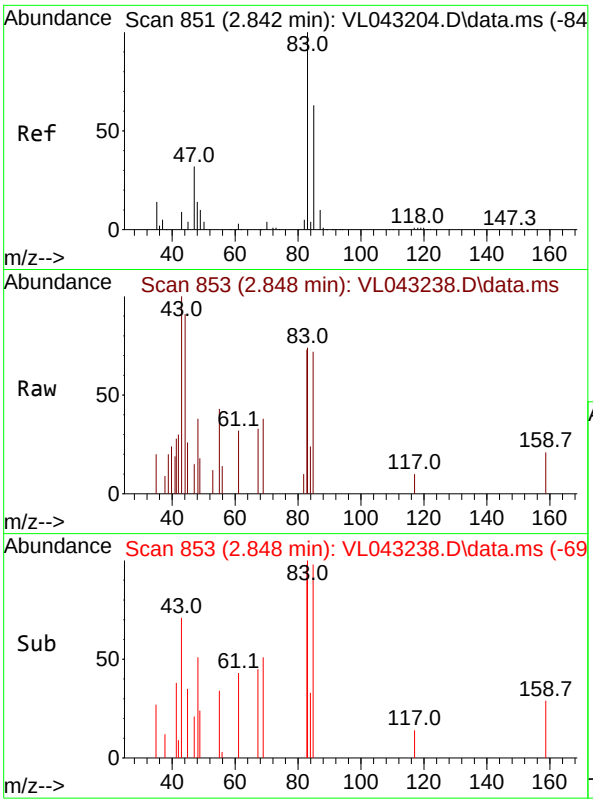


#28
Methyl tert-Butyl Ether
Concen: 0.049 ppbv
RT: 2.402 min Scan# 715
Delta R.T. -0.033 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 73 Resp: 329

Ion	Ratio	Lower	Upper
73	100		
57	116.7	19.8	29.8#



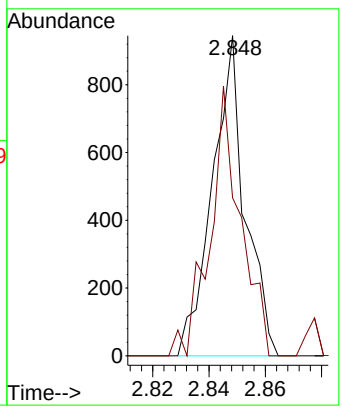


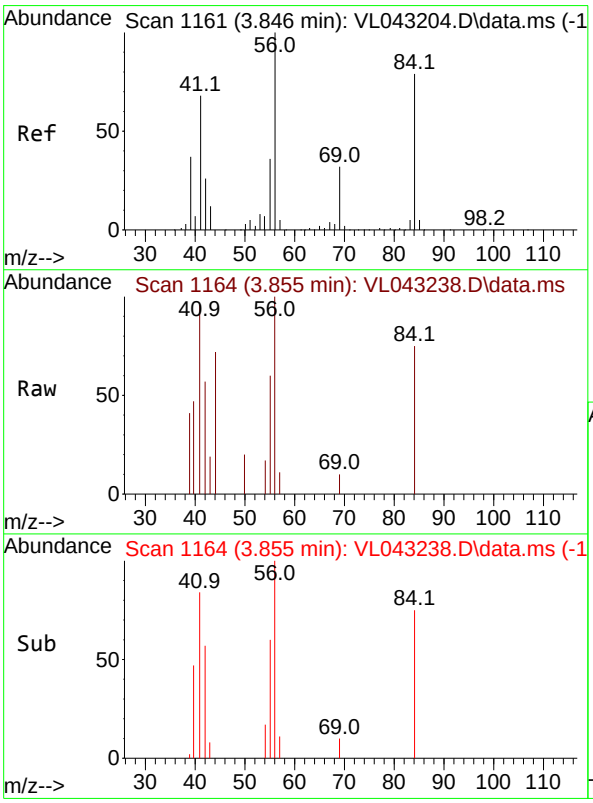
#29
Chloroform
Concen: 0.039 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 83 Resp: 762

Ion	Ratio	Lower	Upper
83	100		
85	49.3	50.5	75.7#

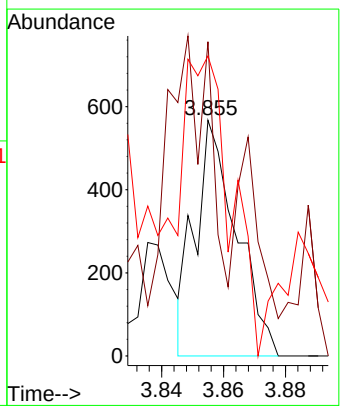


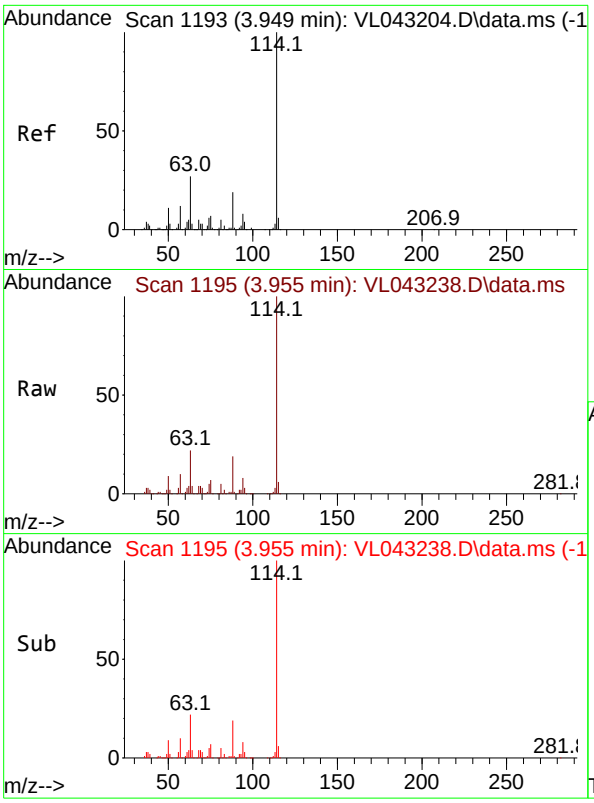


#30
Cyclohexane
Concen: 0.046 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.009 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 84 Resp: 525

Ion	Ratio	Lower	Upper
84	100		
56	0.0	104.7	157.1#
41	225.7	69.0	103.6#



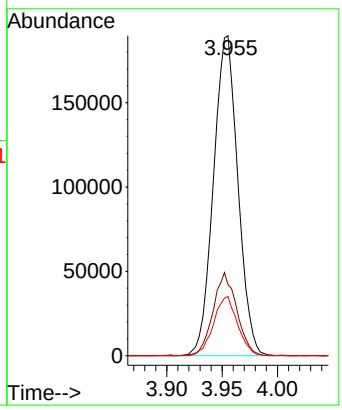


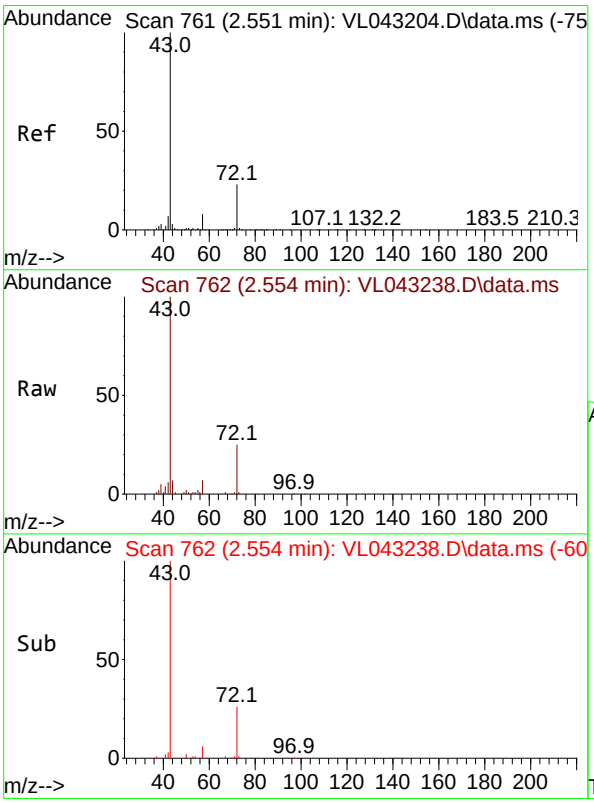
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion:114 Resp: 291331

Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.0	31.6
88	18.2	14.9	22.3

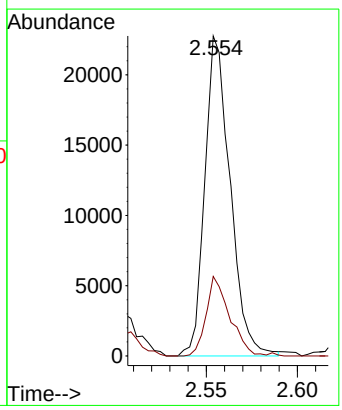


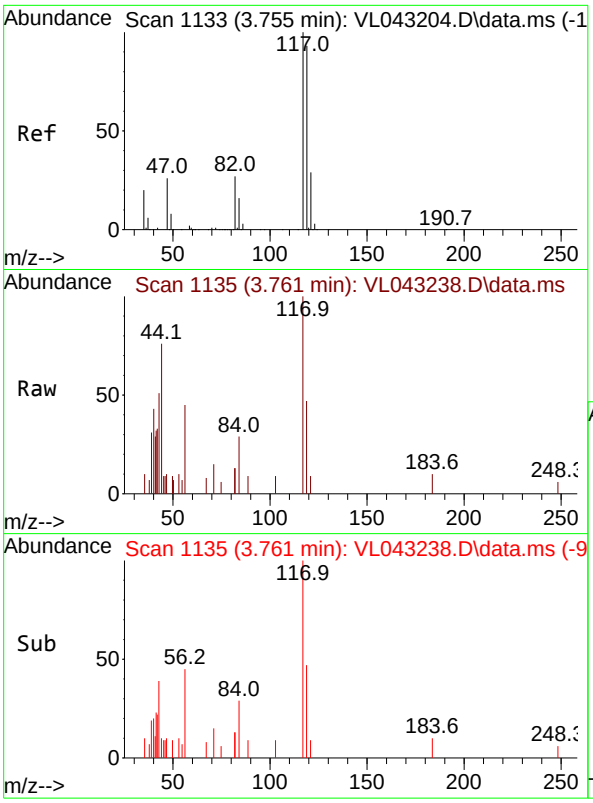


#34
2-Butanone
Concen: 1.072 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 43 Resp: 22054

Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.1	27.1



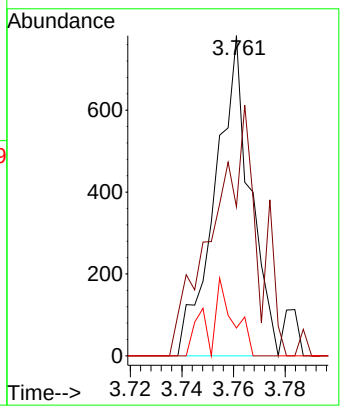


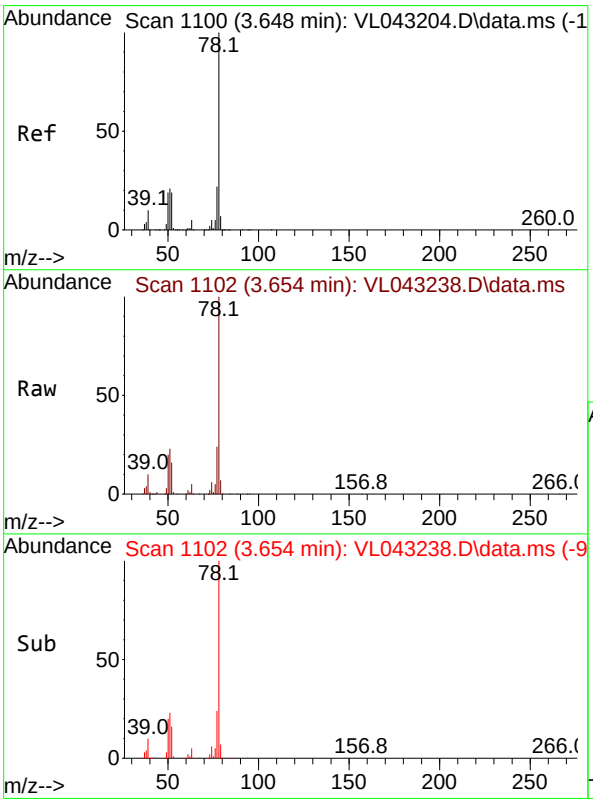
#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 3.761 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion:117 Resp: 737

Ion	Ratio	Lower	Upper
117	100		
119	37.2	74.6	112.0#
121	8.7	23.2	34.8#

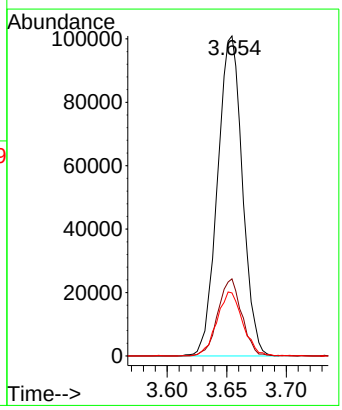


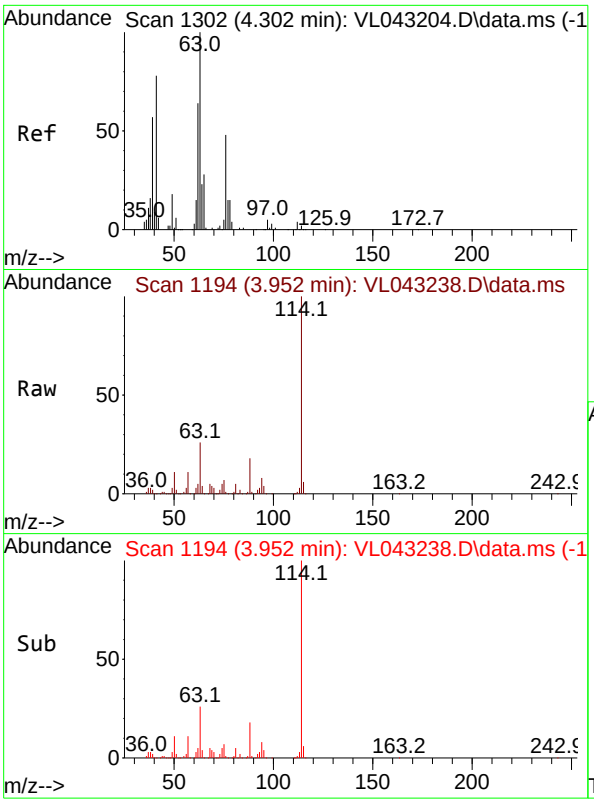


#36
Benzene
Concen: 5.237 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 78 Resp: 146126

Ion	Ratio	Lower	Upper
78	100		
77	24.1	17.5	26.3
50	19.7	15.5	23.3



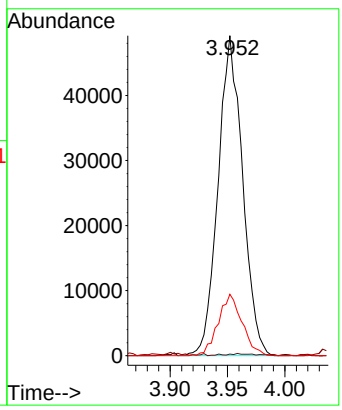


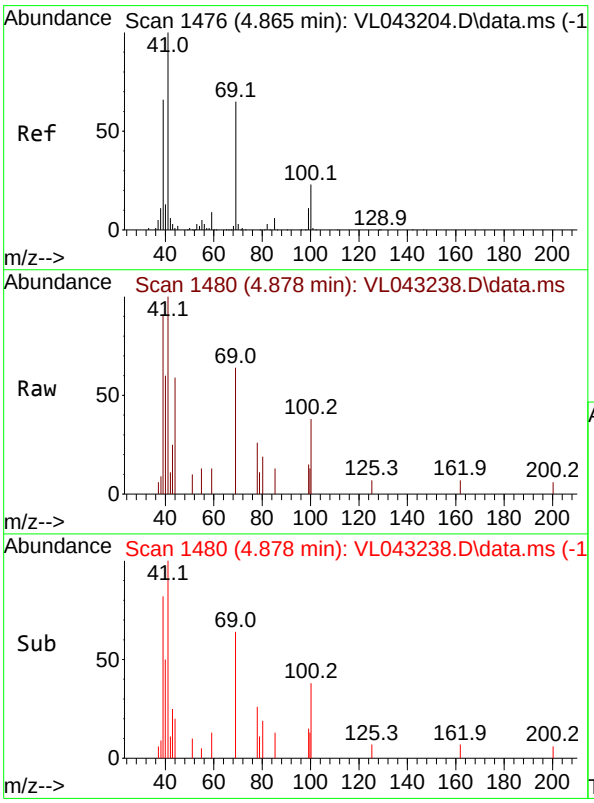
#39
1,2-Dichloropropane
Concen: 7.164 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.350 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 63 Resp: 73157

Ion	Ratio	Lower	Upper
63	100		
41	0.5	62.6	93.8#
62	19.2	51.0	76.6#

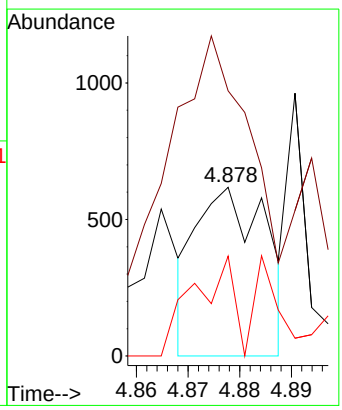


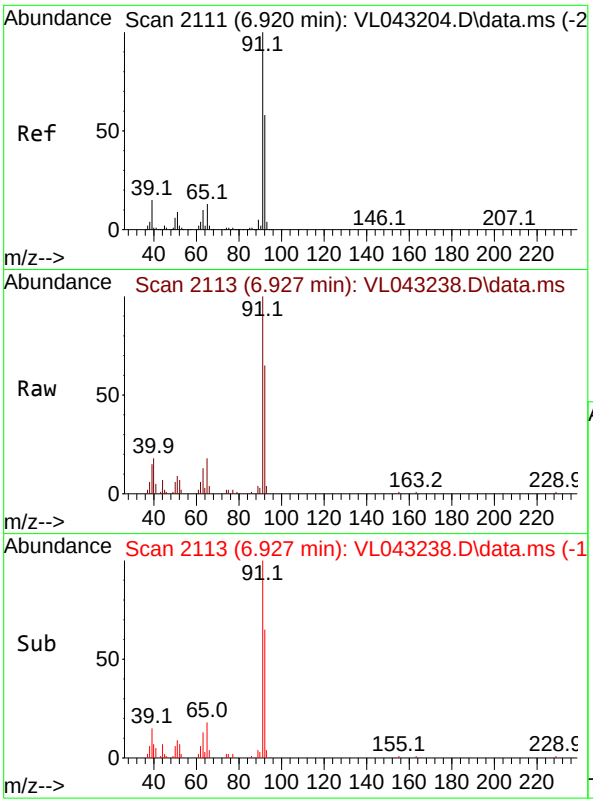


#43
Methyl Methacrylate
Concen: 0.039 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. 0.013 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 69 Resp: 580

Ion	Ratio	Lower	Upper
69	100		
41	399.0	126.7	190.1#
100	0.0	28.6	43.0#



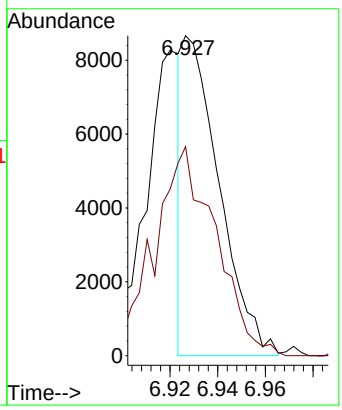


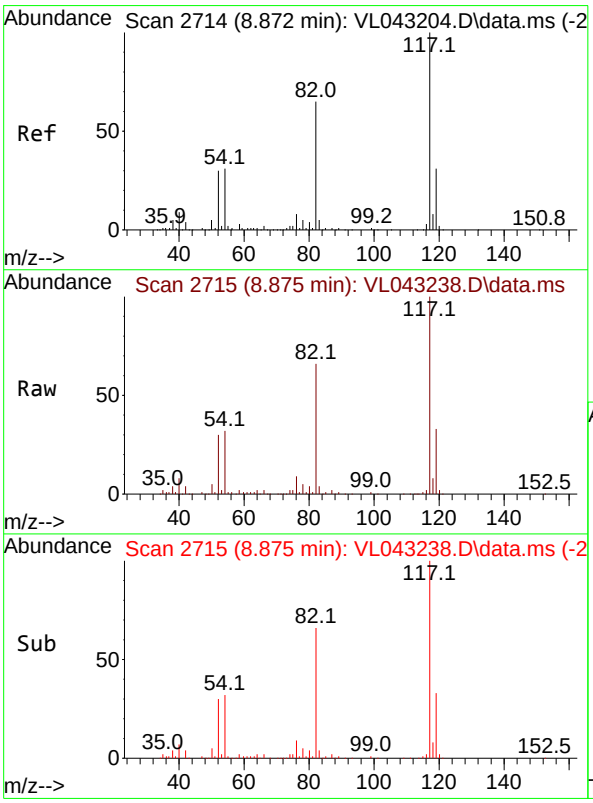
#53
Toluene
Concen: 0.279 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 91 Resp: 9216

Ion	Ratio	Lower	Upper
91	100		
92	112.4	47.4	71.0#

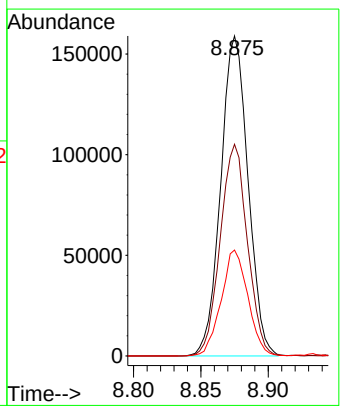


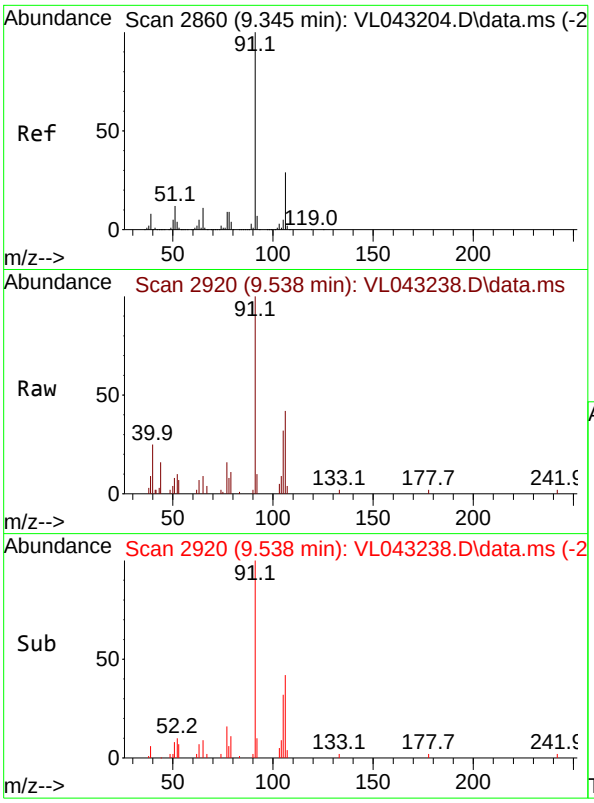


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion:117 Resp: 223974

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



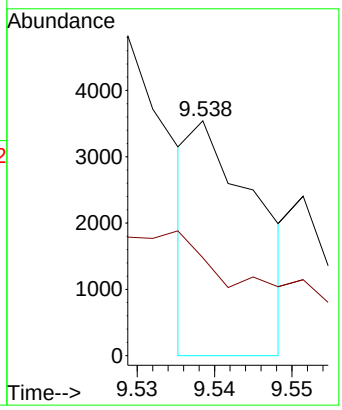


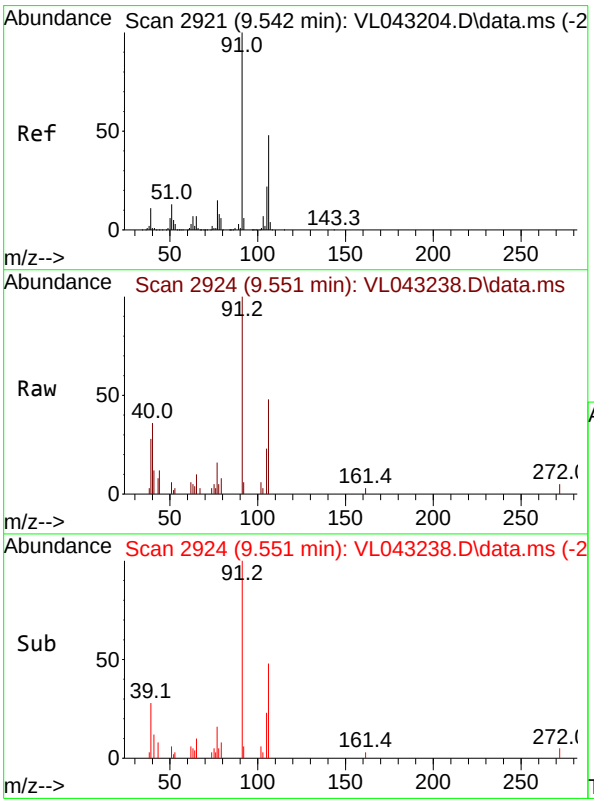
#58
Ethyl Benzene
Concen: 0.048 ppbv
RT: 9.538 min Scan# 2
Delta R.T. 0.194 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 91 Resp: 2065

Ion	Ratio	Lower	Upper
91	100		
106	28.2	22.8	34.2

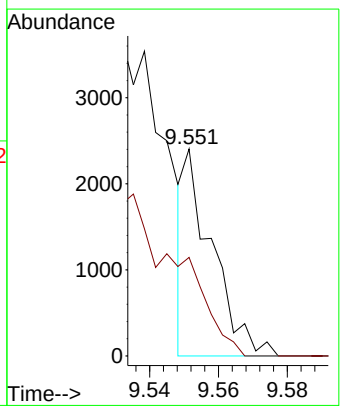


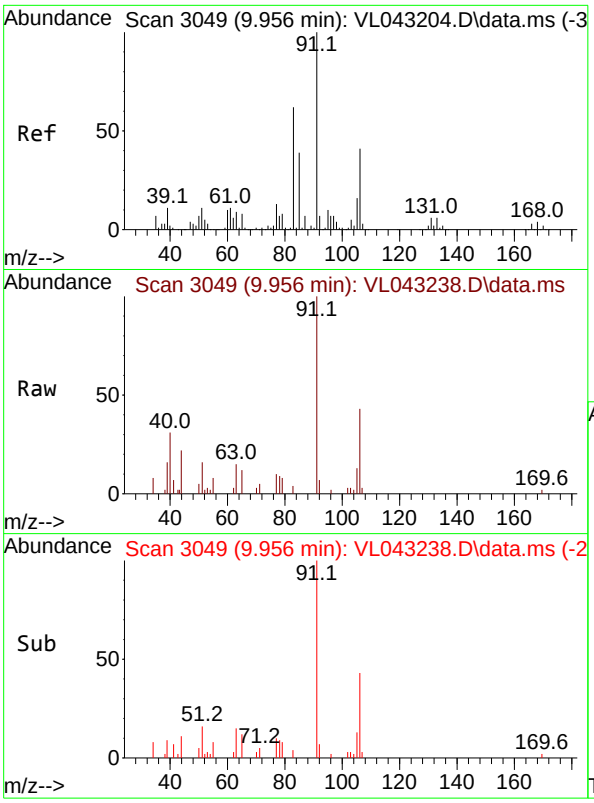


#59
m/p-Xylene
Concen: 0.039 ppbv
RT: 9.551 min Scan# 2924
Delta R.T. 0.009 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 91 Resp: 1363

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#



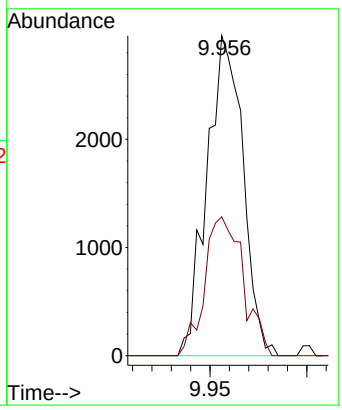


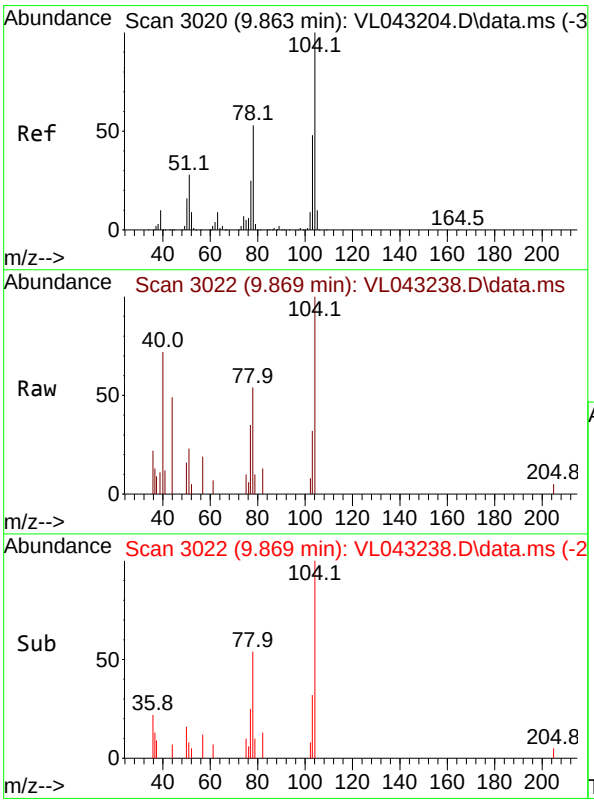
#60
o-Xylene
Concen: 0.111 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 91 Resp: 3821

Ion	Ratio	Lower	Upper
91	100		
106	46.6	20.9	62.8

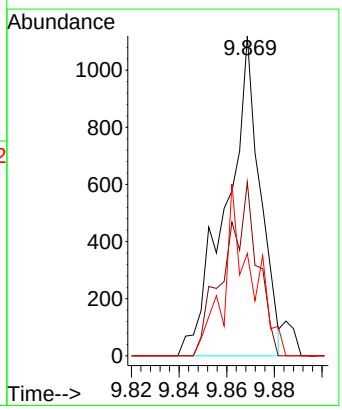


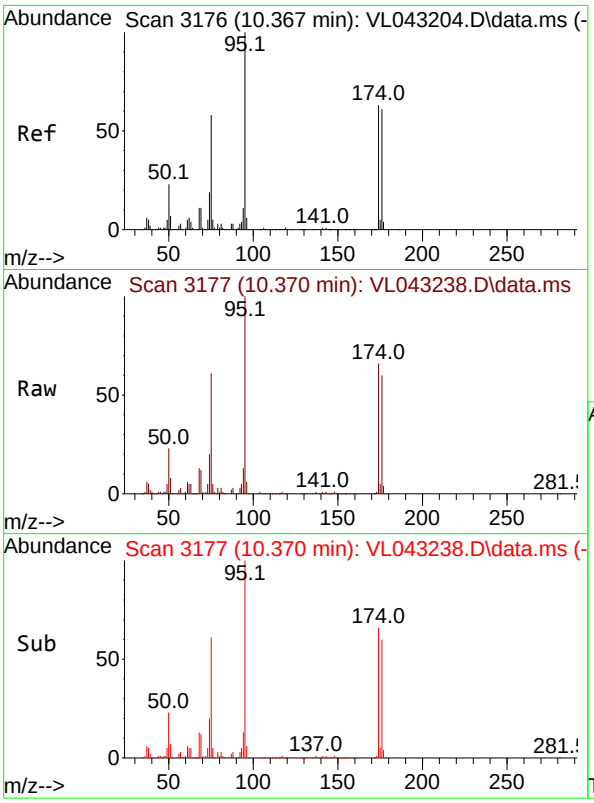


#61
Styrene
Concen: 0.073 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion:104 Resp: 1102

Ion	Ratio	Lower	Upper
104	100		
78	52.5	42.1	63.1
103	44.0	37.2	55.8



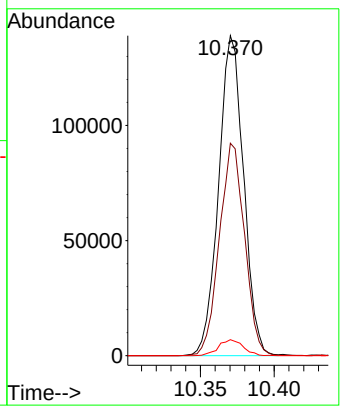


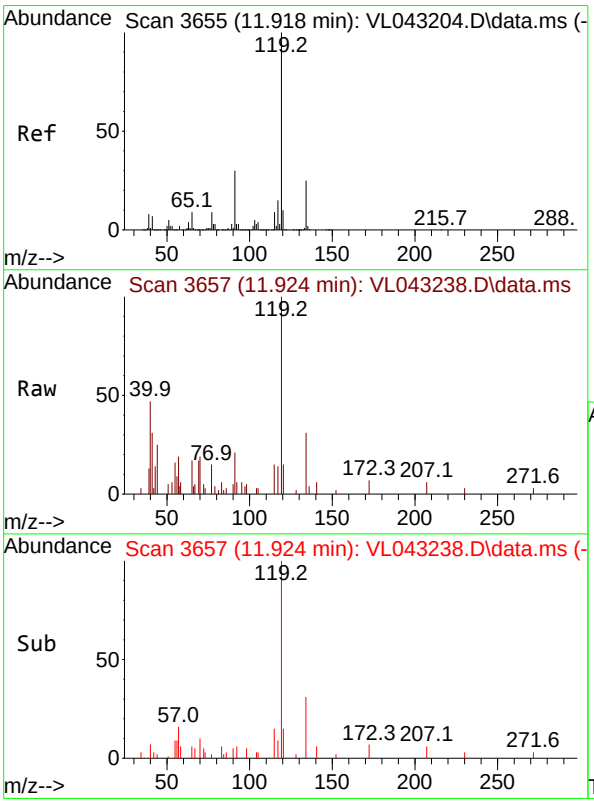
#68
1-Bromo-4-Fluorobenzene
Concen: 9.981 ppbv
RT: 10.370 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 95 Resp: 163862

Ion	Ratio	Lower	Upper
95	100		
174	66.9	50.2	75.2
175	4.9	4.1	6.1

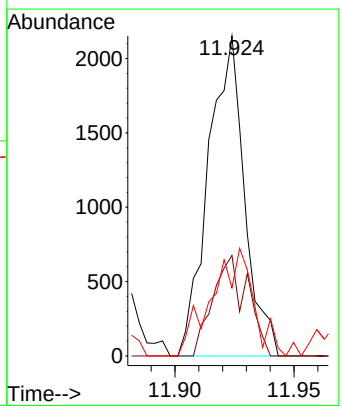


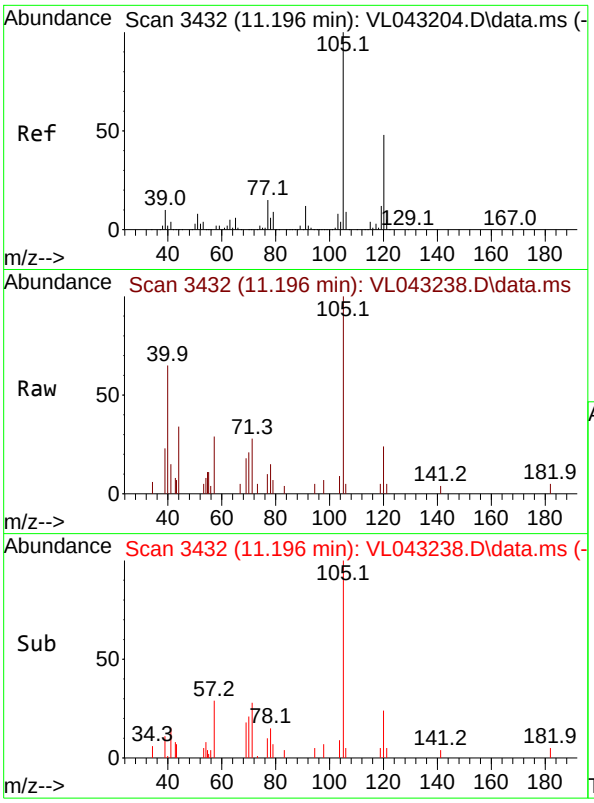


#69
p-Isopropyltoluene
Concen: 0.035 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion:119 Resp: 2269

Ion	Ratio	Lower	Upper
119	100		
134	30.0	20.2	30.2
91	38.8	23.8	35.8#



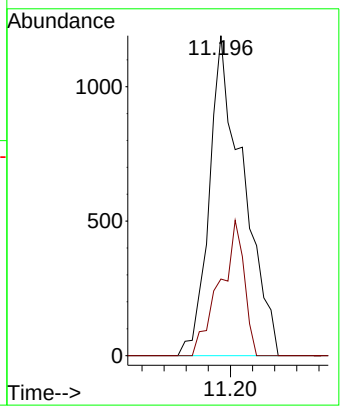


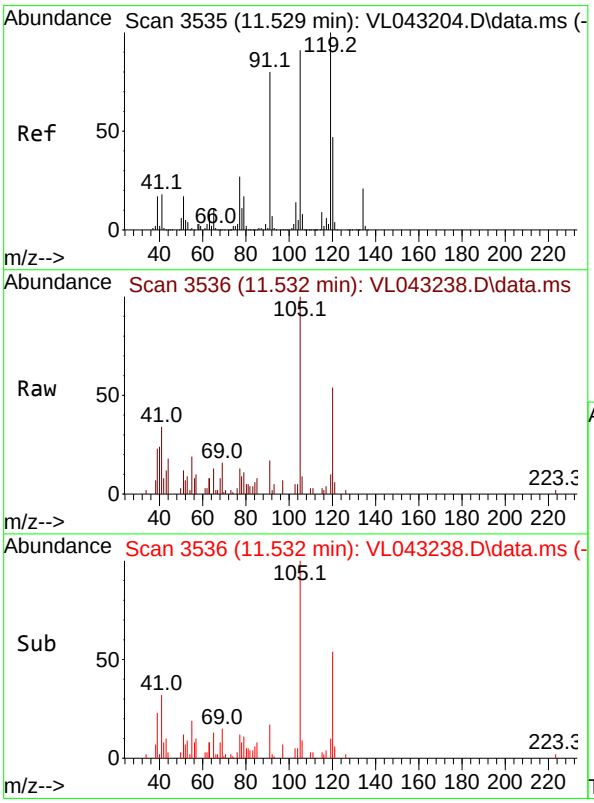
#73
1,3,5-Trimethylbenzene
Concen: 0.036 ppbv
RT: 11.196 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion:105 Resp: 1266

Ion	Ratio	Lower	Upper
105	100		
120	23.9	38.6	57.8#

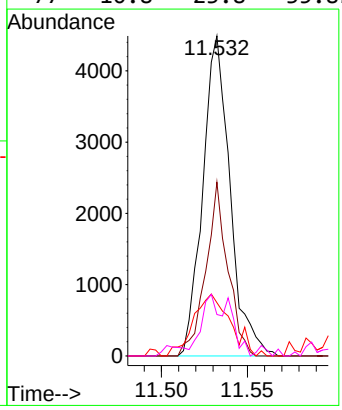


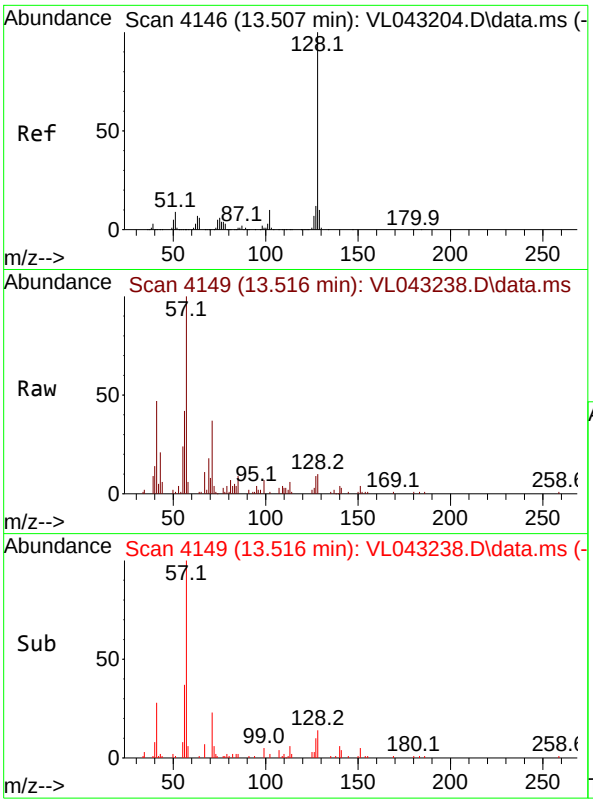


#74
1,2,4-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion:105 Resp: 4967

Ion	Ratio	Lower	Upper
105	100		
120	54.3	41.7	62.5
91	16.6	70.0	105.0#
77	10.8	23.8	35.8#



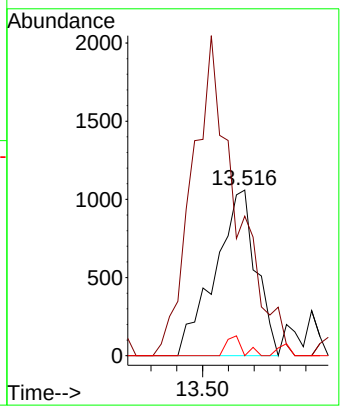


#79
Naphthalene
Concen: 0.034 ppbv
RT: 13.516 min Scan# 4
Delta R.T. 0.009 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion:128 Resp: 1170

Ion	Ratio	Lower	Upper
128	100		
127	55.0	9.9	14.9#
129	0.0	8.4	12.6#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043239.D
Acq On : 19 Nov 2025 14:59
Operator : SY/MD
Sample : Q3626-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Quant Time: Nov 20 00:05:40 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

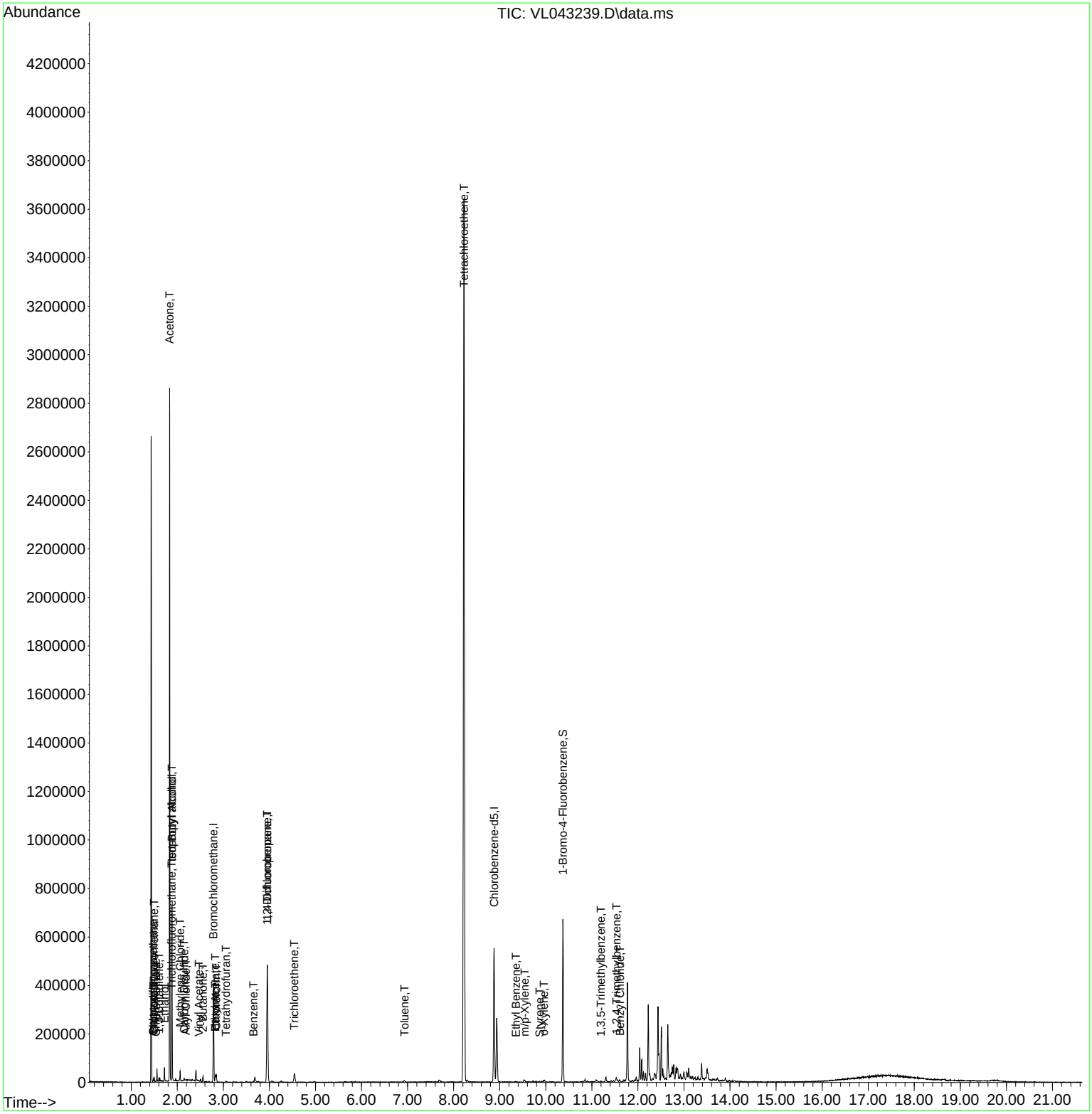
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	103410	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	285776	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	221762	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	162206	9.979	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3957	0.271	ppbv		96
3) Chlorodifluoromethane	1.476	51	3425	0.239	ppbv		96
4) Chloromethane	1.538	50	264	0.048	ppbv	#	45
9) Propene	1.486	41	1552	0.255	ppbv	#	86
11) Trichlorofluoromethane	1.877	101	1726	0.122	ppbv		92
13) Ethanol	1.722	45	19662	9.180	ppbv		99
15) Acetone	1.832	43	1257557	87.530	ppbv		96
16) 1,3-Butadiene	1.602	39	1466	0.229	ppbv	#	33
17) tert-Butyl alcohol	1.884	59	9986	0.530	ppbv		99
19) Isopropyl Alcohol	1.884	45	295068	36.345	ppbv	#	1
20) Methylene Chloride	2.062	84	6137	0.721	ppbv	#	91
21) Allyl Chloride	2.188	41	736	0.076	ppbv	#	1
23) Vinyl Acetate	2.473	43	718	0.041	ppbv	#	79
25) Ethyl Acetate	2.826	43	5321	0.172	ppbv	#	84
26) Hexane	2.826	57	5891	0.434	ppbv	#	45
27) Carbon Disulfide	2.149	76	5026	0.362	ppbv	#	6
29) Chloroform	2.845	83	11863	0.614	ppbv		88
34) 2-Butanone	2.557	43	14813	0.734	ppbv		93
36) Benzene	3.654	78	1336	0.049	ppbv	#	79
38) Trichloroethene	4.541	130	9230	0.862	ppbv		94
39) 1,2-Dichloropropane	3.952	63	70936	7.082	ppbv	#	25
41) Tetrahydrofuran	3.059	42	1765	0.158	ppbv	#	86
52) Tetrachloroethene	8.224	164	656288	64.467	ppbv		98
53) Toluene	6.933	91	2097	0.065	ppbv	#	21
58) Ethyl Benzene	9.354	91	1928	0.045	ppbv		98
59) m/p-Xylene	9.542	91	1687	0.049	ppbv	#	31
60) o-Xylene	9.962	91	1547	0.045	ppbv	#	50
61) Styrene	9.865	104	731	0.049	ppbv	#	87
66) Benzyl Chloride	11.610	91	254	0.046	ppbv	#	1
73) 1,3,5-Trimethylbenzene	11.196	105	1054	0.030	ppbv		96
74) 1,2,4-Trimethylbenzene	11.535	105	1781	0.047	ppbv	#	51

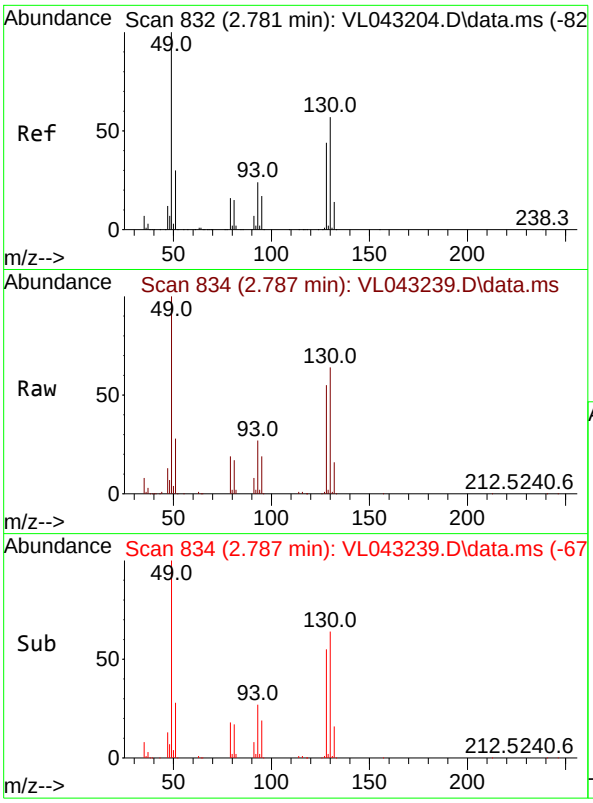
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043239.D
Acq On : 19 Nov 2025 14:59
Operator : SY/MD
Sample : Q3626-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Quant Time: Nov 20 00:05:40 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



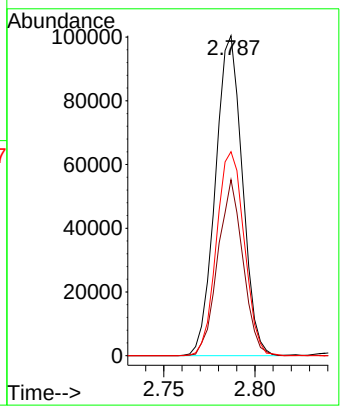


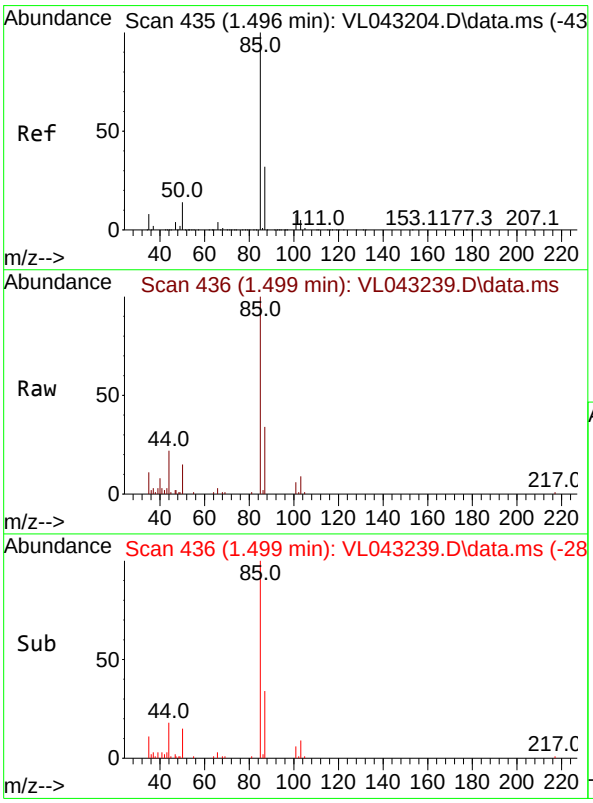
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion: 49 Resp: 103410

Ion	Ratio	Lower	Upper
49	100		
128	51.1	23.0	69.0
130	65.4	29.9	89.7

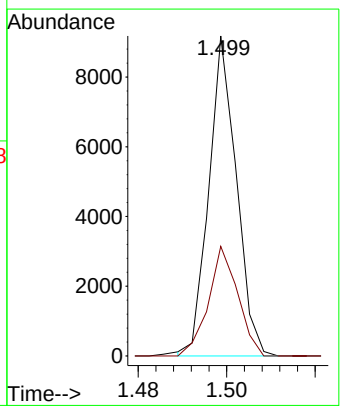


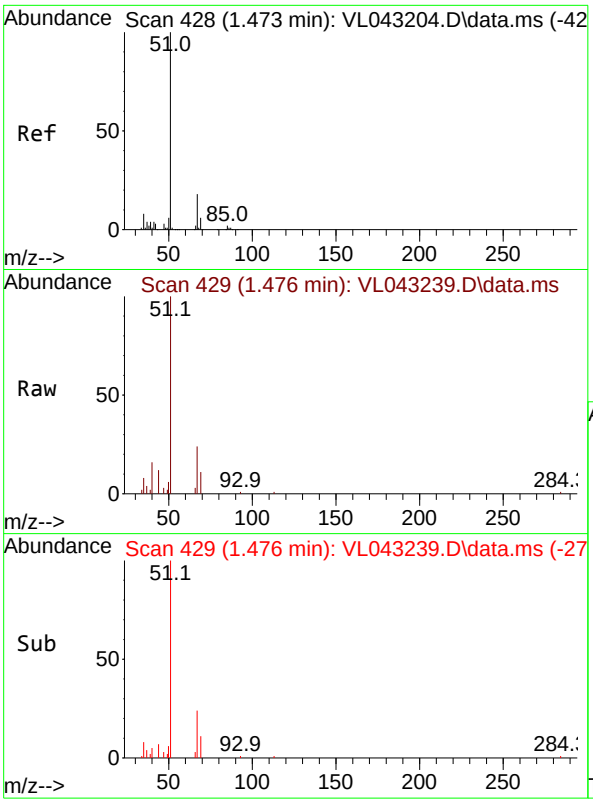


#2
Dichlorodifluoromethane
Concen: 0.271 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 85 Resp: 3957

Ion	Ratio	Lower	Upper
85	100		
87	34.2	25.4	38.2



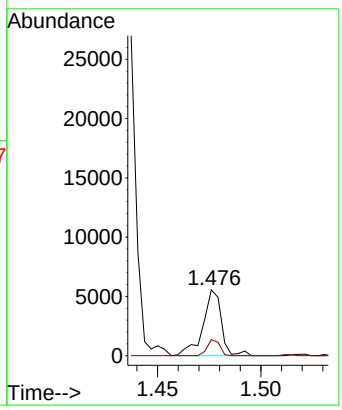


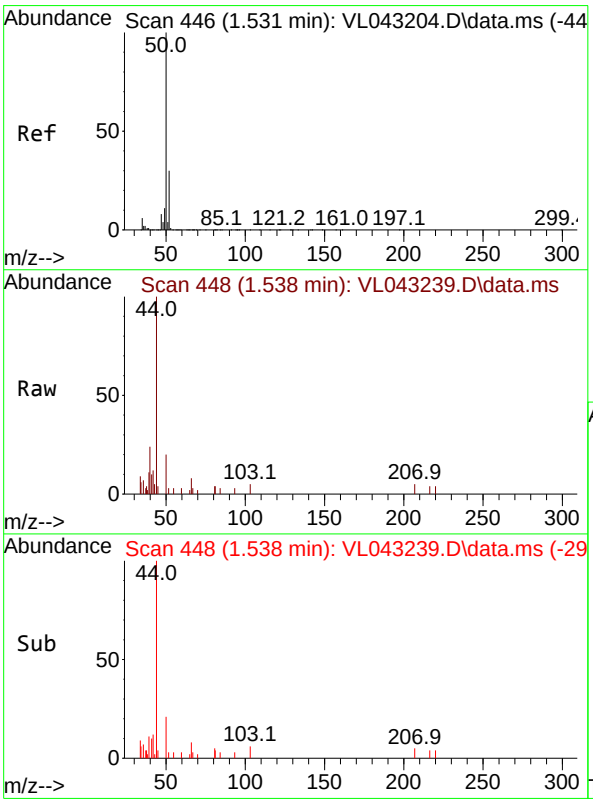
#3
Chlorodifluoromethane
Concen: 0.239 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion: 51 Resp: 3425

Ion	Ratio	Lower	Upper
51	100		
67	16.6	14.9	22.3

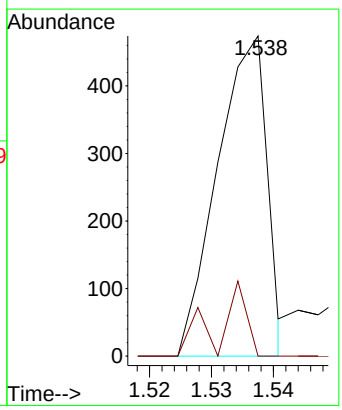


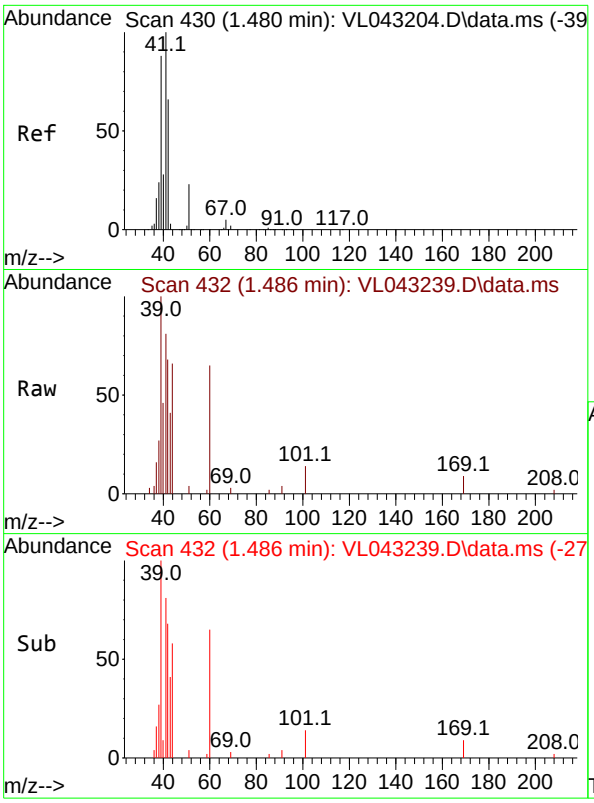


#4
Chloromethane
Concen: 0.048 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 50 Resp: 264

Ion	Ratio	Lower	Upper
50	100		
52	0.0	24.1	36.1#



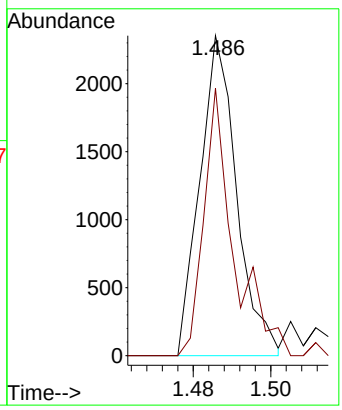


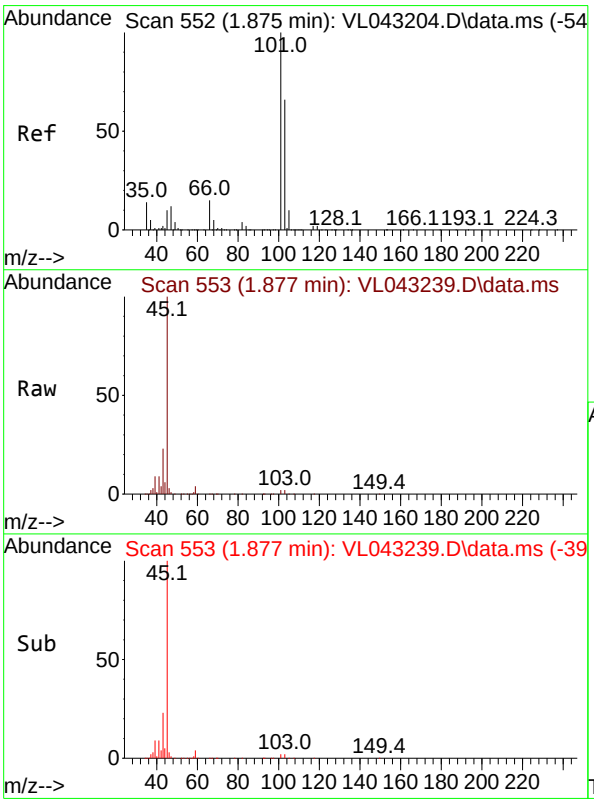
#9
Propene
Concen: 0.255 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion: 41 Resp: 1552

Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5#

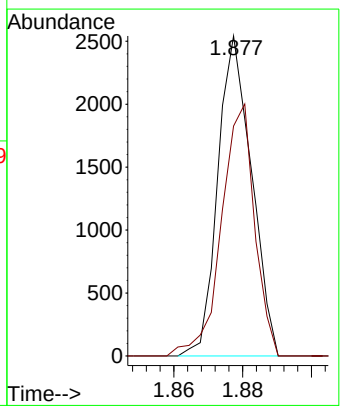


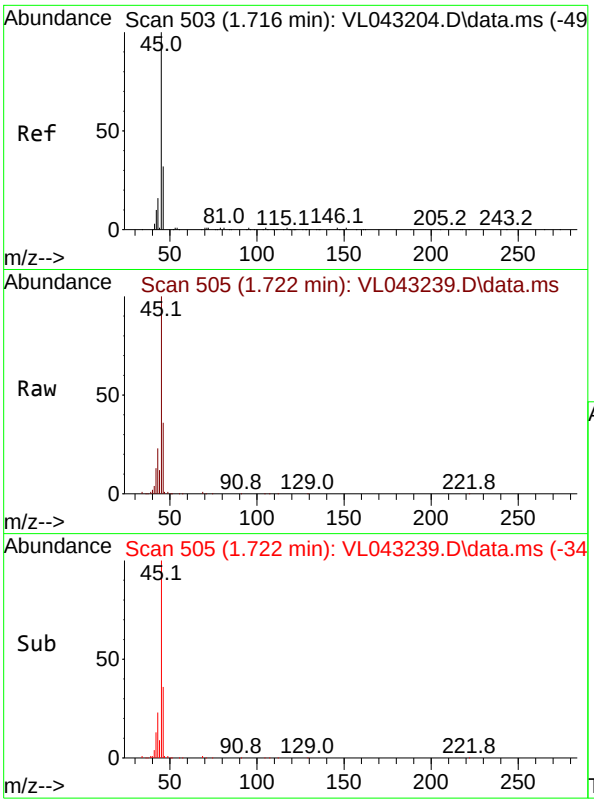


#11
Trichlorofluoromethane
Concen: 0.122 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion:101 Resp: 1726

Ion	Ratio	Lower	Upper
101	100		
103	71.9	52.6	79.0



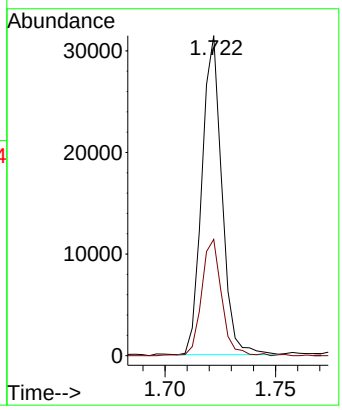


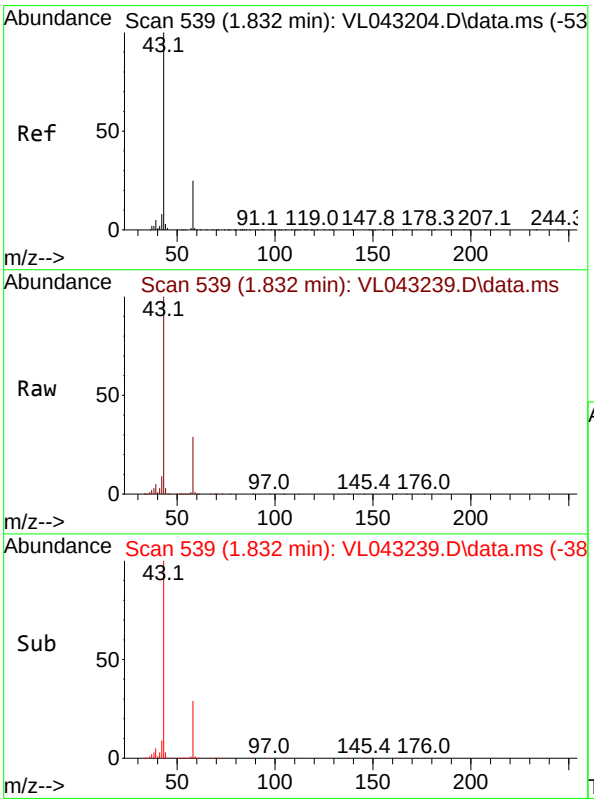
#13
Ethanol
Concen: 9.180 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion: 45 Resp: 19662

Ion	Ratio	Lower	Upper
45	100		
46	37.0	15.0	59.8

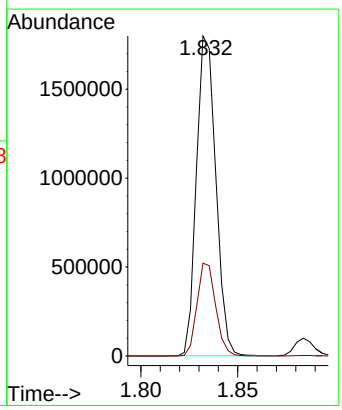


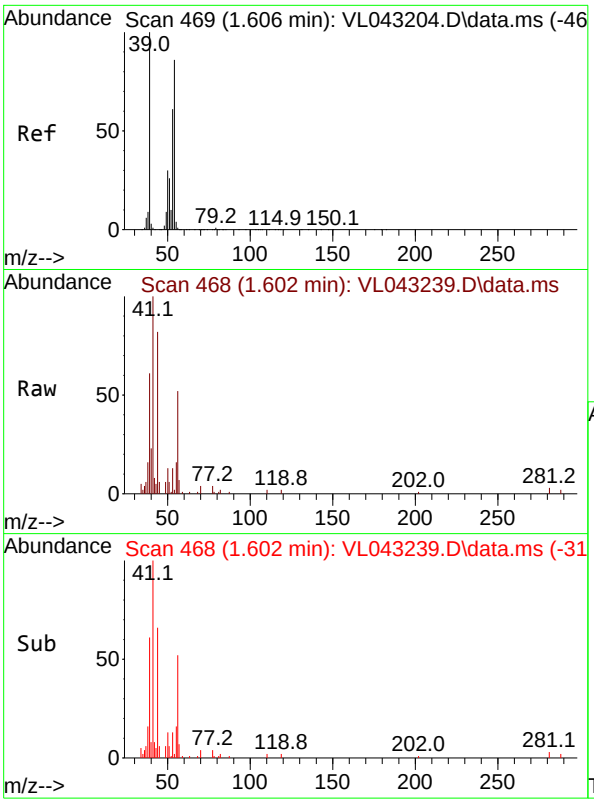


#15
Acetone
Concen: 87.530 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 43 Resp: 1257557

Ion	Ratio	Lower	Upper
43	100		
58	27.8	20.7	31.1



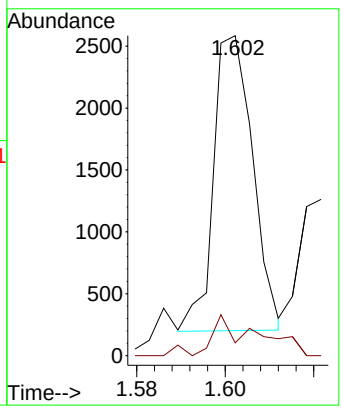


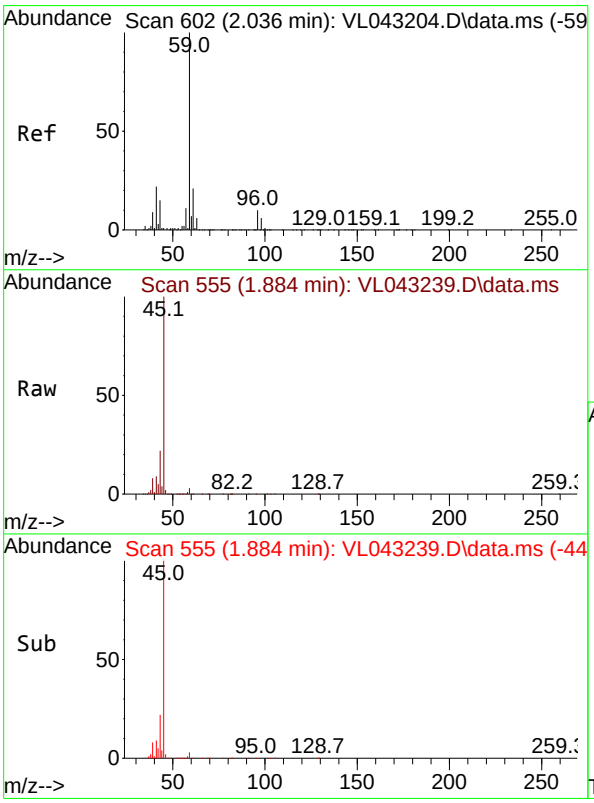
#16
1,3-Butadiene
Concen: 0.229 ppbv
RT: 1.602 min Scan# 4
Delta R.T. -0.004 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion: 39 Resp: 1466

Ion	Ratio	Lower	Upper
39	100		
54	17.5	59.4	89.2#

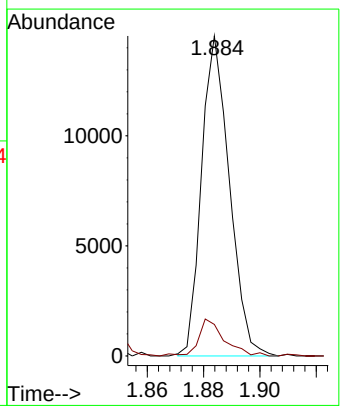


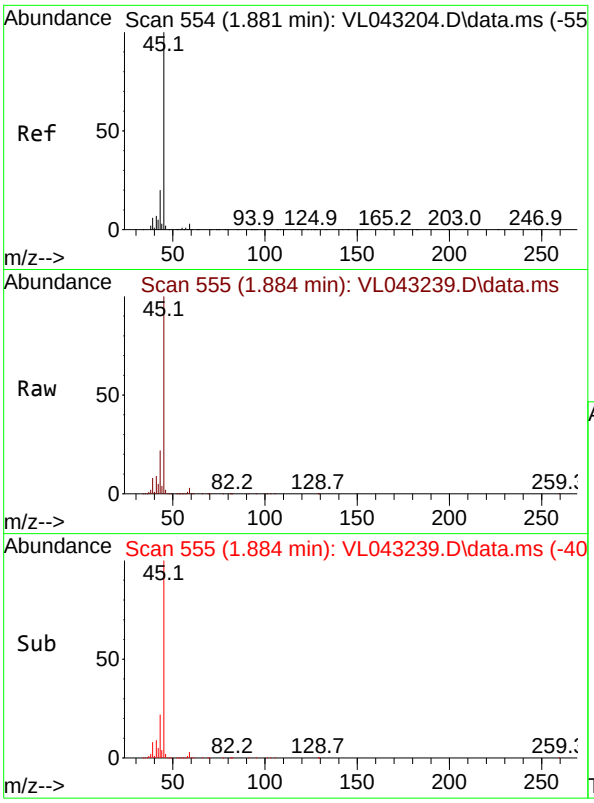


#17
tert-Butyl alcohol
Concen: 0.530 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.153 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 59 Resp: 9986

Ion	Ratio	Lower	Upper
59	100		
57	11.0	9.0	13.4



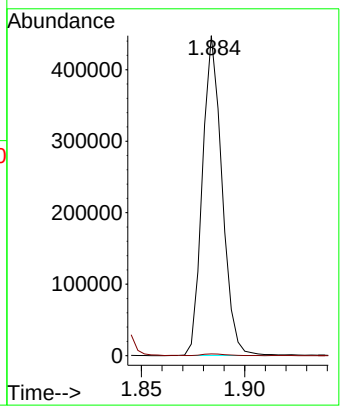


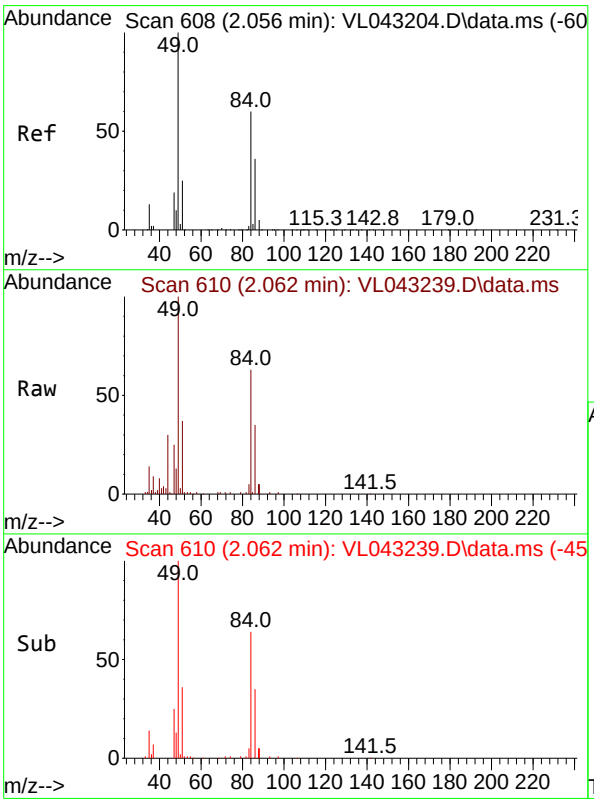
#19
Isopropyl Alcohol
Concen: 36.345 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion: 45 Resp: 295068

Ion	Ratio	Lower	Upper
45	100		
58	118.7	31.3	46.9#

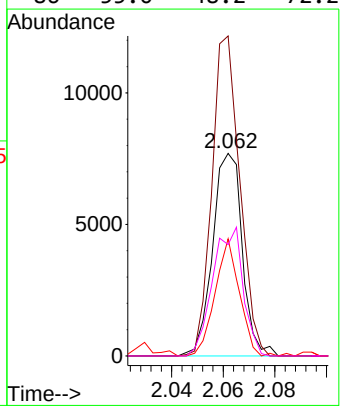


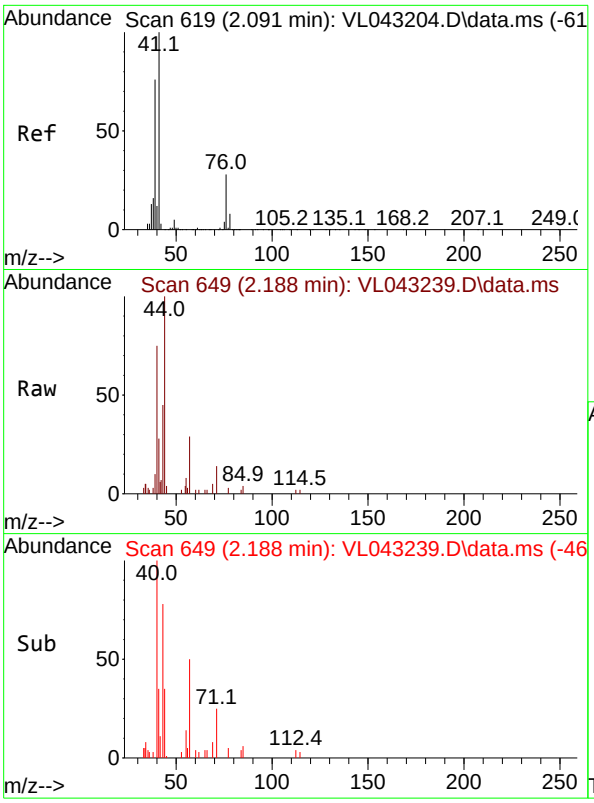


#20
Methylene Chloride
Concen: 0.721 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 84 Resp: 6137

Ion	Ratio	Lower	Upper
84	100		
49	157.9	132.9	199.3
51	57.8	34.8	52.2#
86	55.0	48.2	72.2



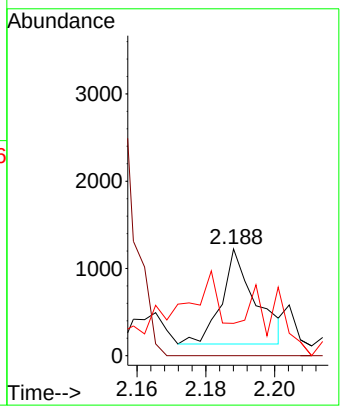


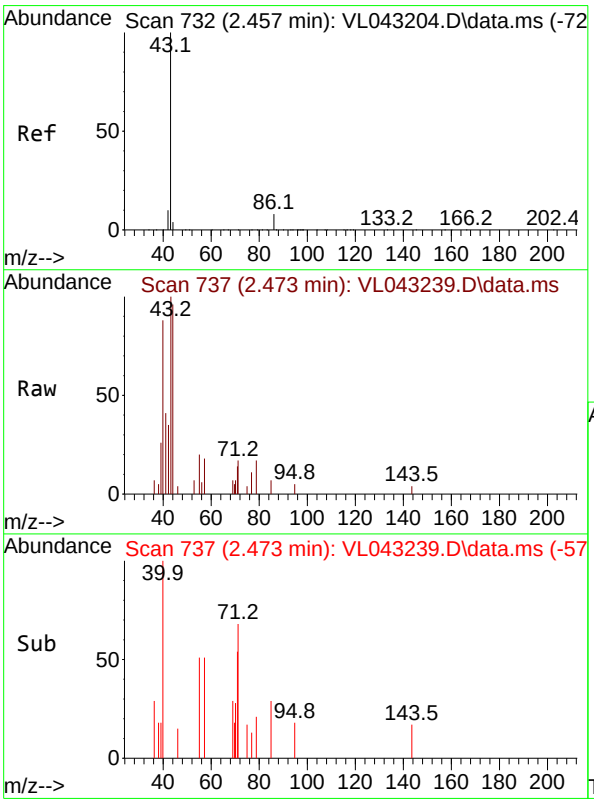
#21
Allyl Chloride
Concen: 0.076 ppbv
RT: 2.188 min Scan# 64
Delta R.T. 0.097 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion: 41 Resp: 736

Ion	Ratio	Lower	Upper
41	100		
76	683.0	22.1	33.1#
39	0.0	61.0	91.4#

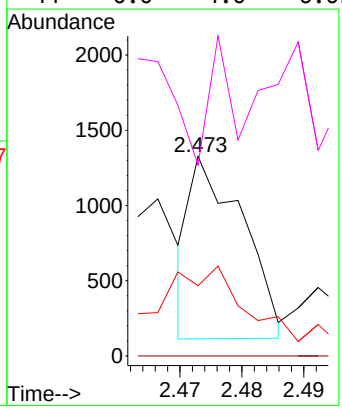


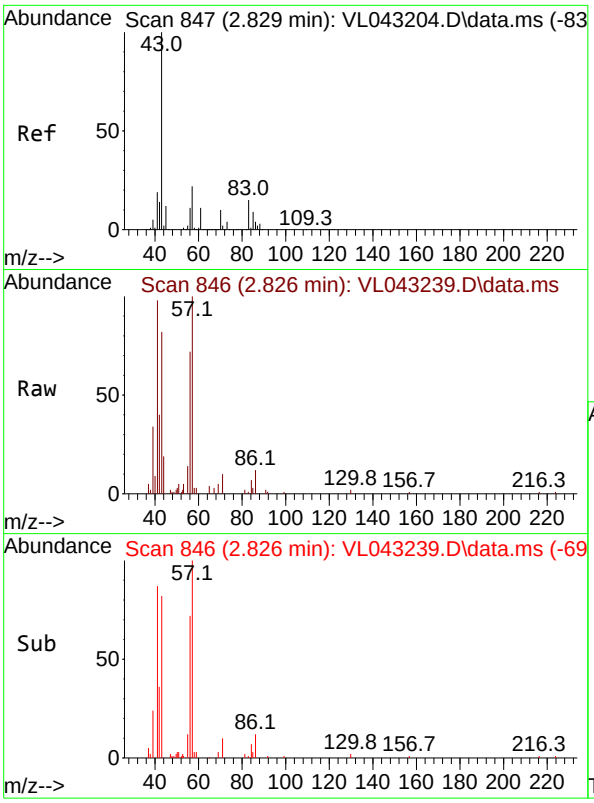


#23
Vinyl Acetate
Concen: 0.041 ppbv
RT: 2.473 min Scan# 737
Delta R.T. 0.016 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 43 Resp: 718

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.2#
42	18.7	8.0	12.0#
44	0.0	4.0	6.0#



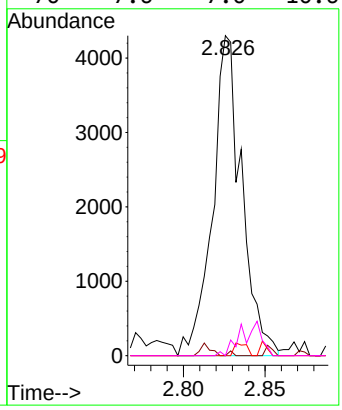


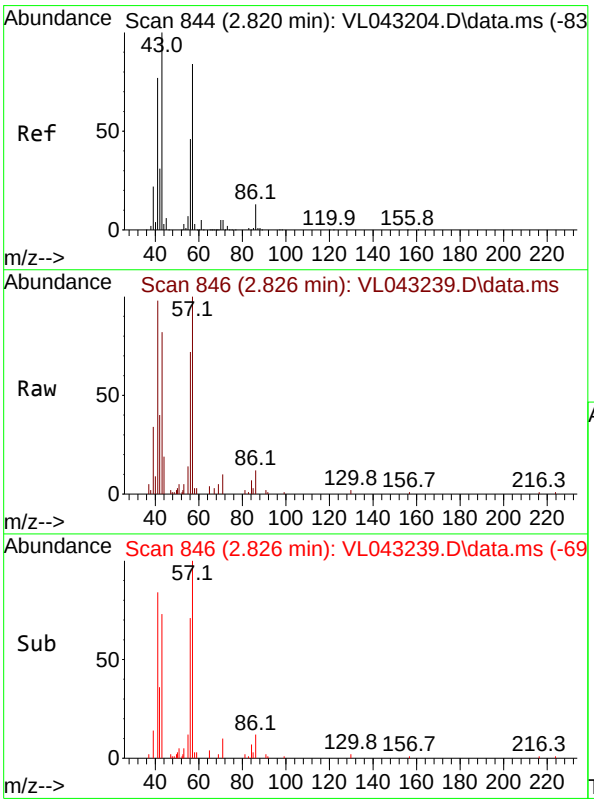
#25
Ethyl Acetate
Concen: 0.172 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.004 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion: 43 Resp: 5321

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	2.7	7.0	10.4#
70	7.6	7.0	10.6

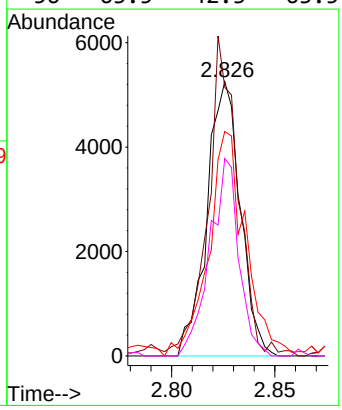


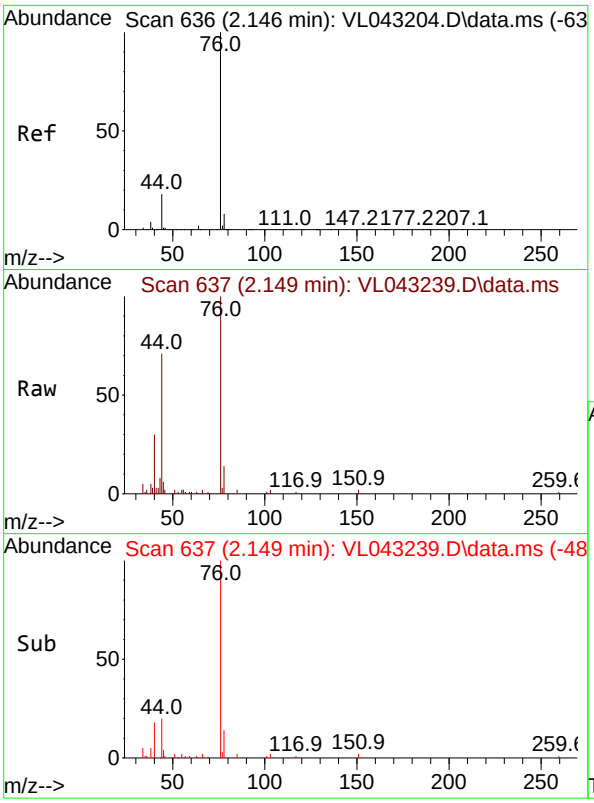


#26
Hexane
Concen: 0.434 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 57 Resp: 5891

Ion	Ratio	Lower	Upper
57	100		
41	108.8	74.6	111.8
43	94.0	179.0	268.4#
56	63.5	42.3	63.5



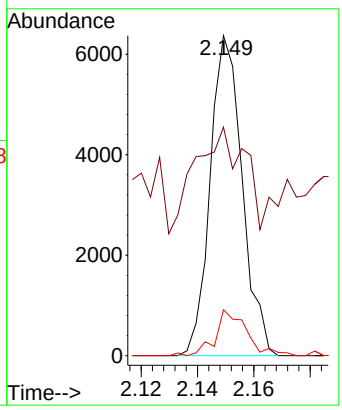


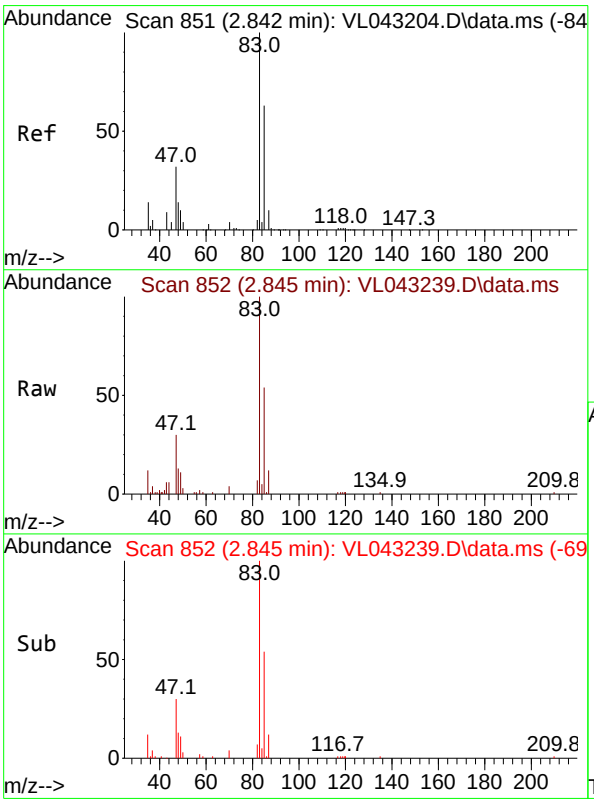
#27
Carbon Disulfide
Concen: 0.362 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion: 76 Resp: 5026

Ion	Ratio	Lower	Upper
76	100		
44	87.8	16.1	24.1#
78	14.3	9.6	14.4

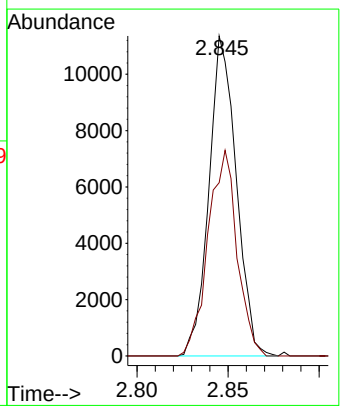


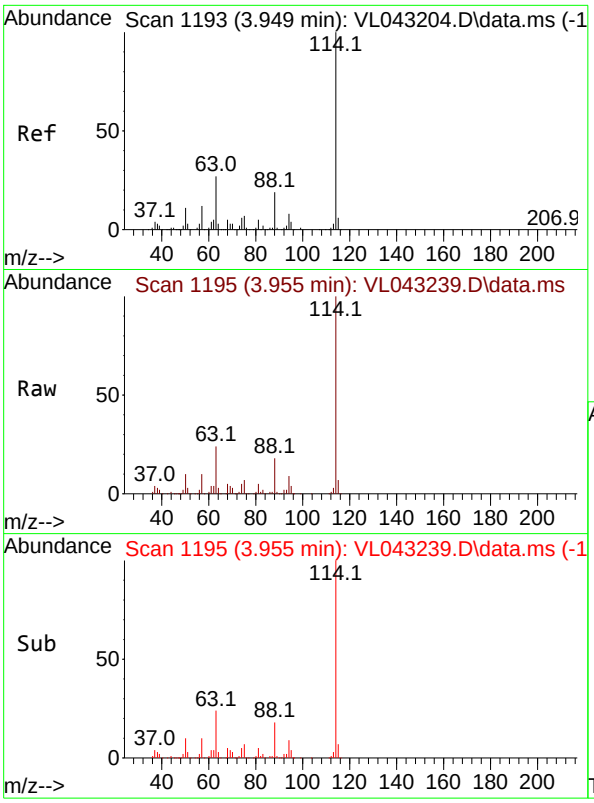


#29
Chloroform
Concen: 0.614 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 83 Resp: 11863

Ion	Ratio	Lower	Upper
83	100		
85	54.1	50.5	75.7



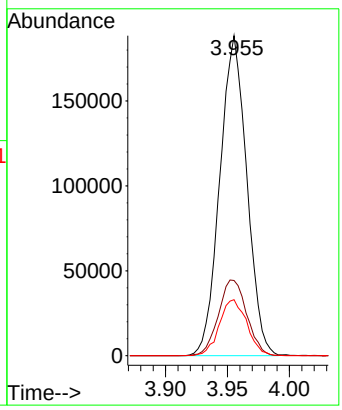


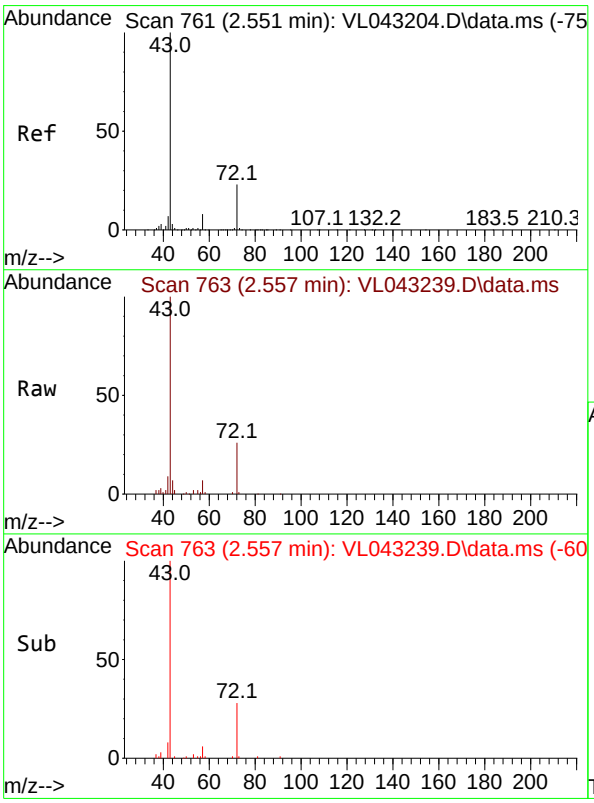
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion:114 Resp: 285776

Ion	Ratio	Lower	Upper
114	100		
63	24.8	21.0	31.6
88	17.9	14.9	22.3

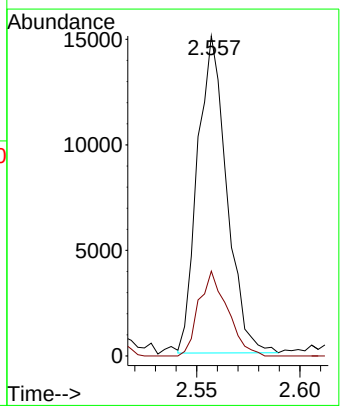


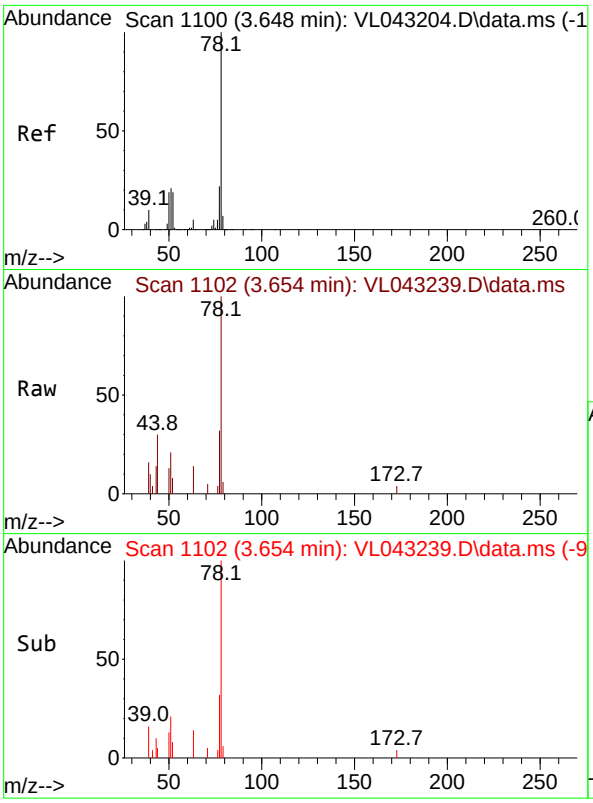


#34
2-Butanone
Concen: 0.734 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 43 Resp: 14813

Ion	Ratio	Lower	Upper
43	100		
72	26.2	18.1	27.1



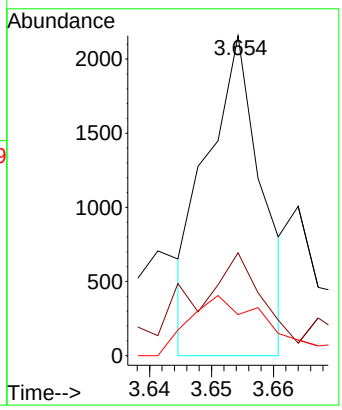


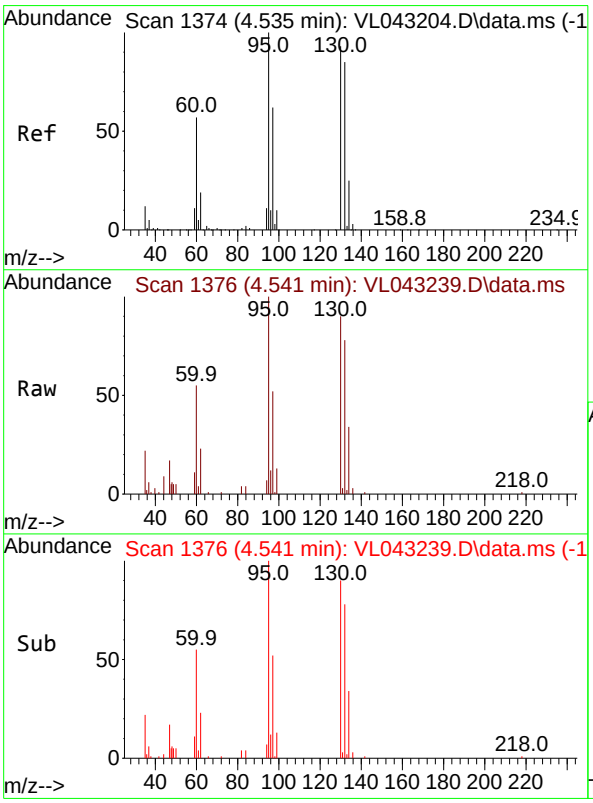
#36
Benzene
Concen: 0.049 ppbv
RT: 3.654 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion: 78 Resp: 1336

Ion	Ratio	Lower	Upper
78	100		
77	30.1	17.5	26.3#
50	8.4	15.5	23.3#

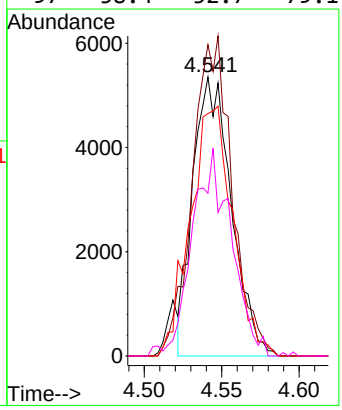


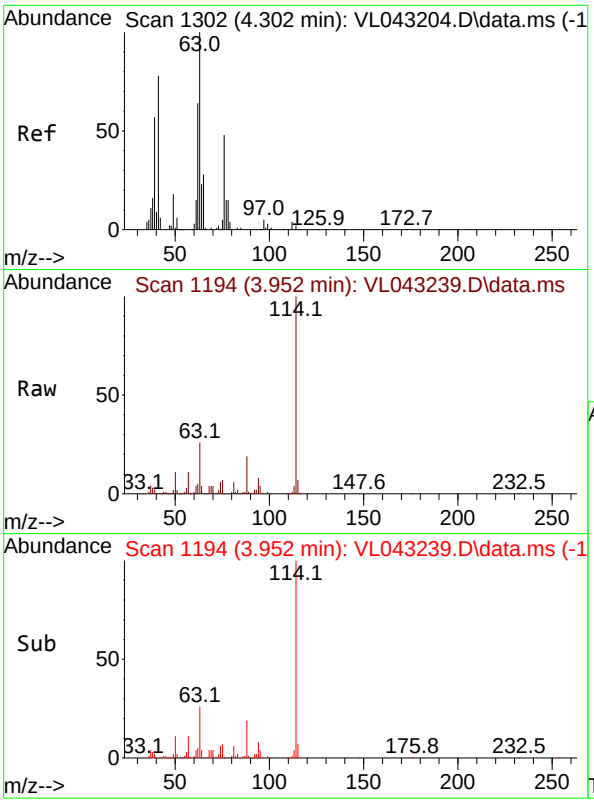


#38
Trichloroethene
Concen: 0.862 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion:130 Resp: 9230

Ion	Ratio	Lower	Upper
130	100		
95	111.6	85.7	128.5
132	86.9	73.4	110.0
97	58.4	52.7	79.1



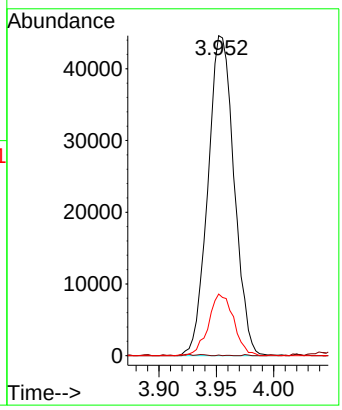


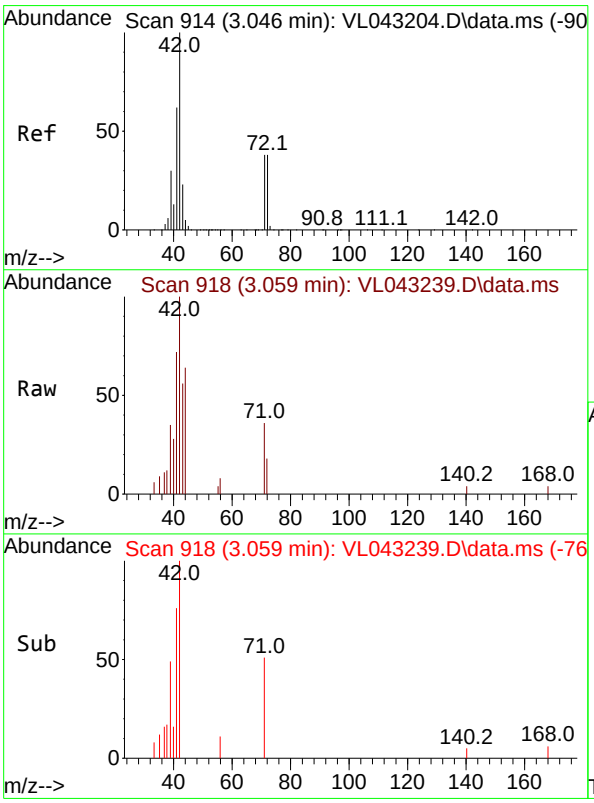
#39
1,2-Dichloropropane
Concen: 7.082 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.350 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion: 63 Resp: 70936

Ion	Ratio	Lower	Upper
63	100		
41	0.2	62.6	93.8#
62	19.3	51.0	76.6#

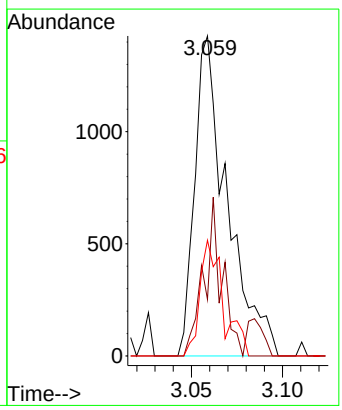


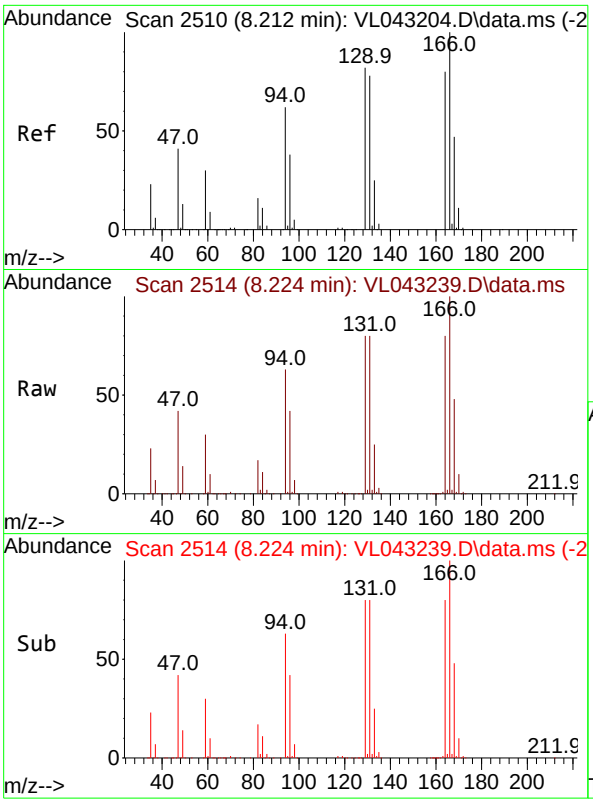


#41
Tetrahydrofuran
Concen: 0.158 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.013 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 42 Resp: 1765

Ion	Ratio	Lower	Upper
42	100		
72	33.1	30.6	46.0
71	26.1	30.5	45.7#



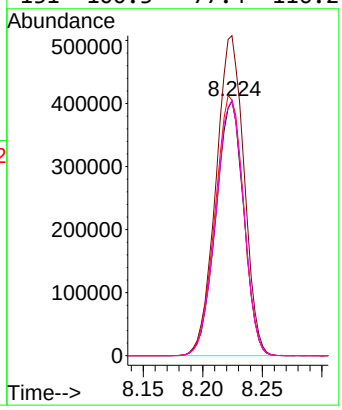


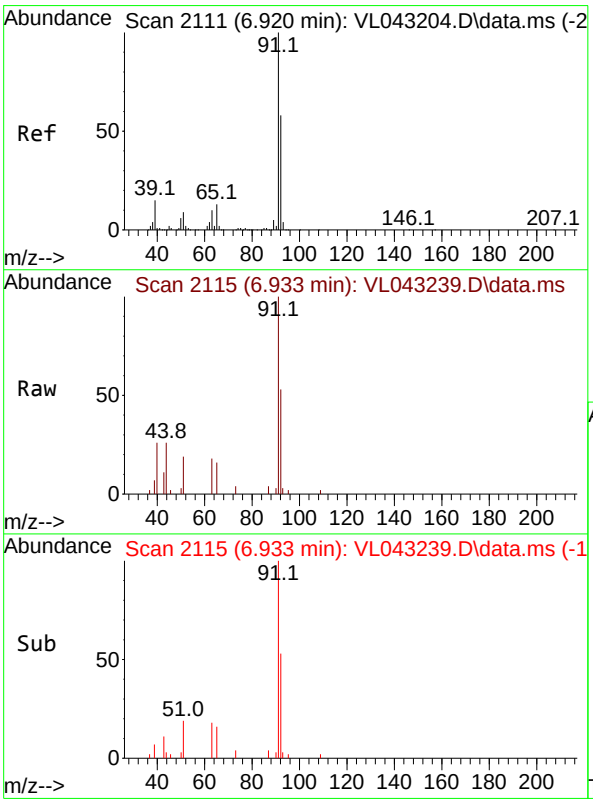
#52
Tetrachloroethene
Concen: 64.467 ppbv
RT: 8.224 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion:164 Resp: 656288

Ion	Ratio	Lower	Upper
164	100		
166	125.7	99.4	149.2
129	100.4	81.8	122.8
131	100.3	77.4	116.2

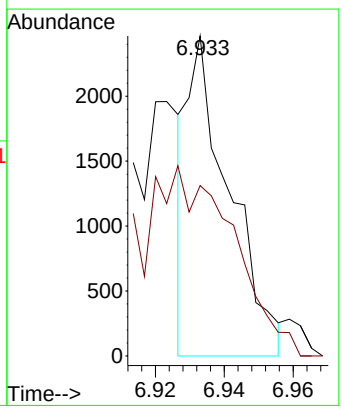


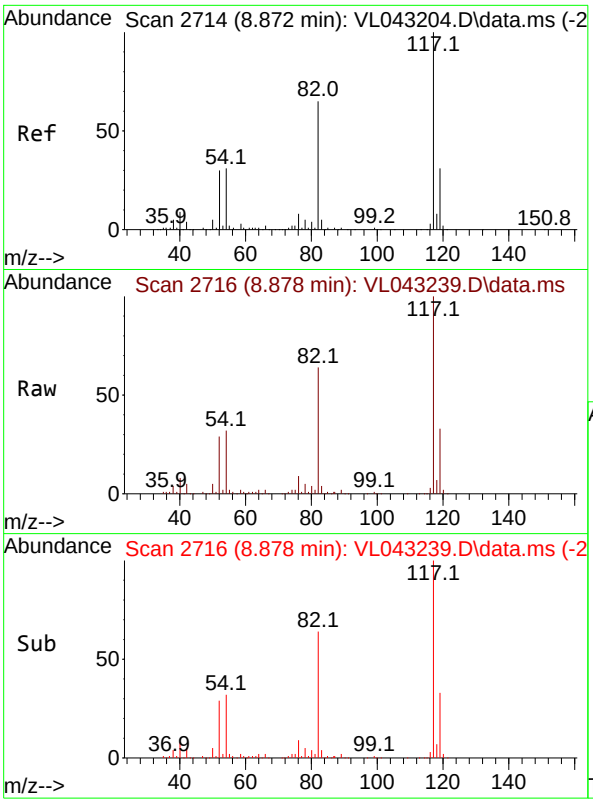


#53
Toluene
Concen: 0.065 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.013 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 91 Resp: 2097

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.0#



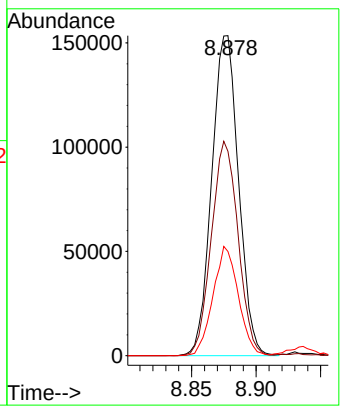


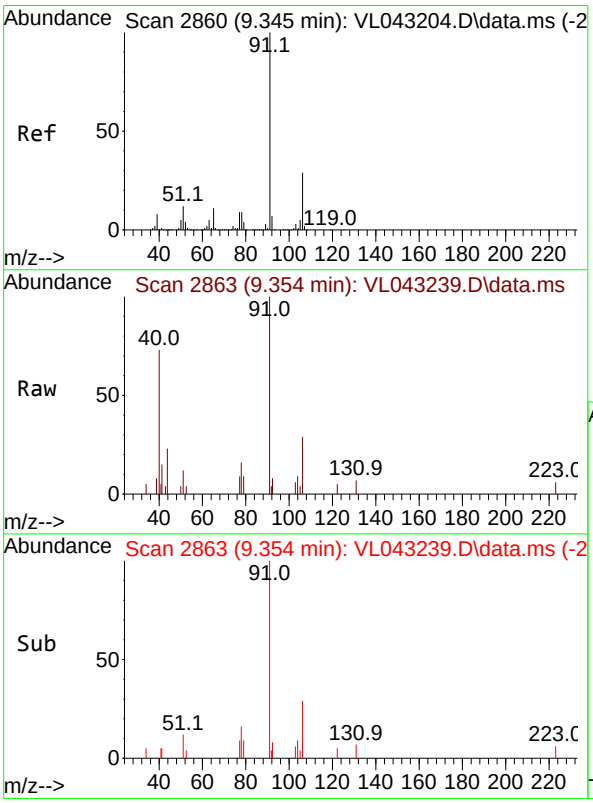
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion:117 Resp: 221762

Ion	Ratio	Lower	Upper
117	100		
82	66.8	56.1	84.1
119	32.3	25.0	37.6

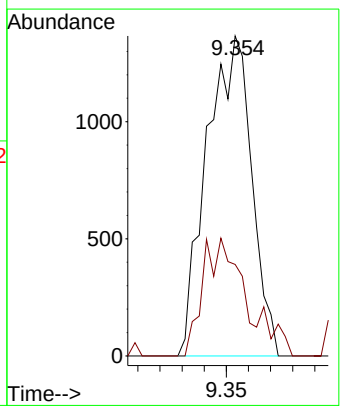


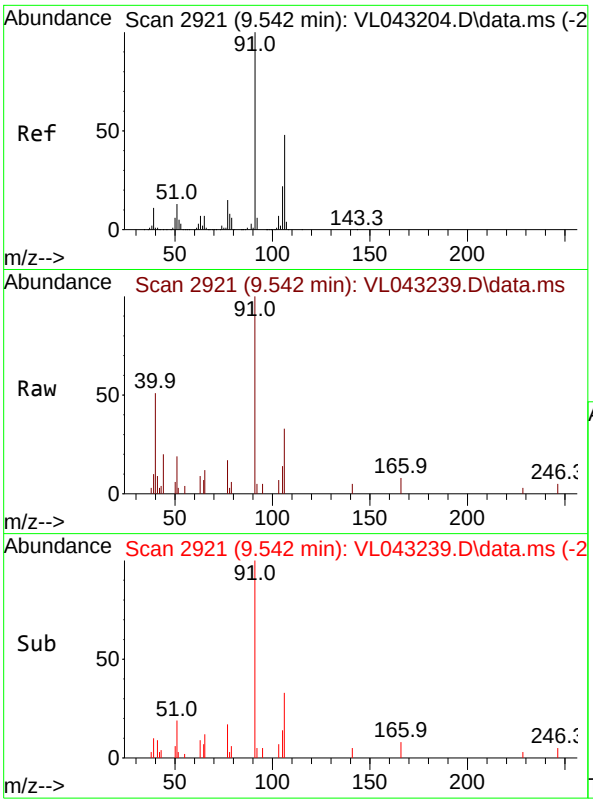


#58
Ethyl Benzene
Concen: 0.045 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.009 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 91 Resp: 1928

Ion	Ratio	Lower	Upper
91	100		
106	27.5	22.8	34.2



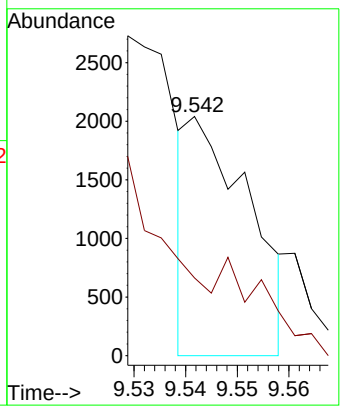


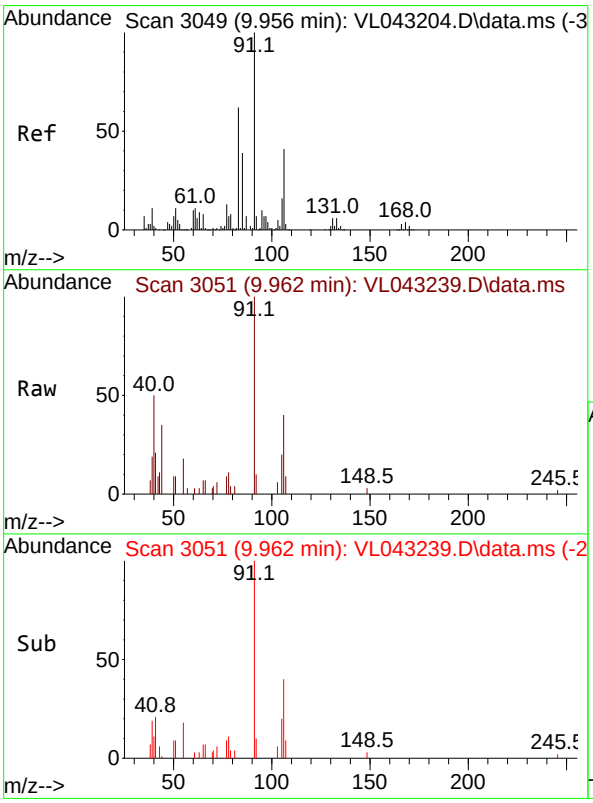
#59
m/p-Xylene
Concen: 0.049 ppbv
RT: 9.542 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion: 91 Resp: 1687

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

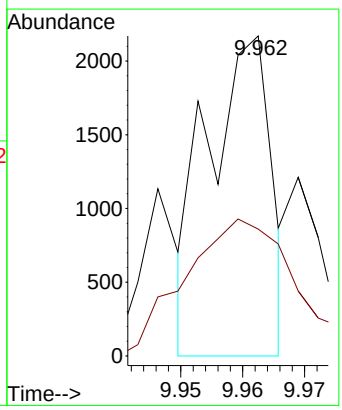


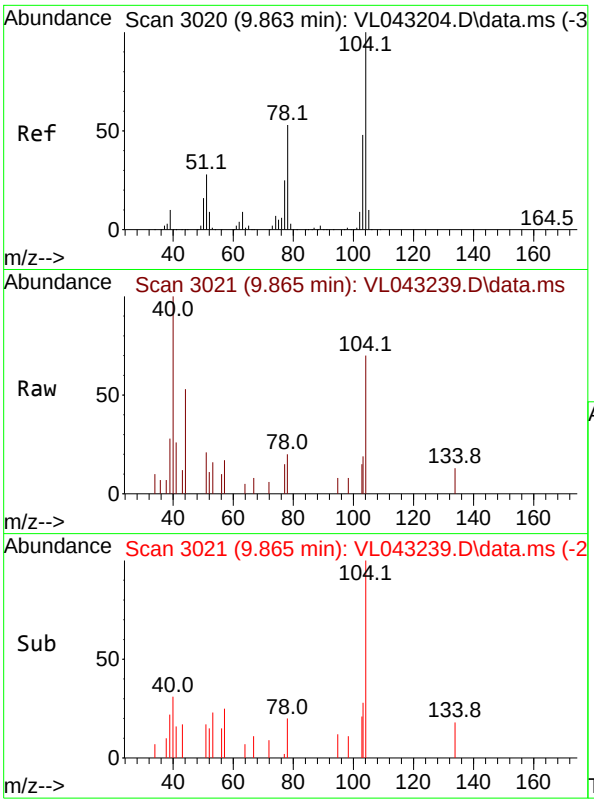


#60
o-Xylene
Concen: 0.045 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 91 Resp: 1547

Ion	Ratio	Lower	Upper
91	100		
106	73.2	20.9	62.8#



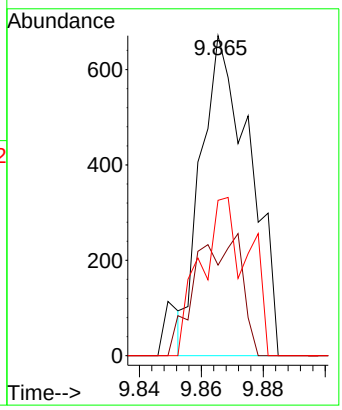


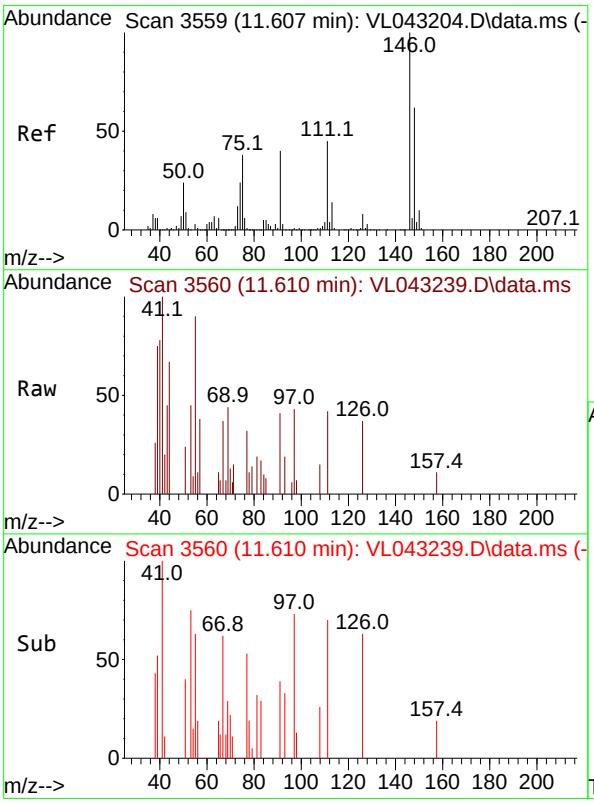
#61
Styrene
Concen: 0.049 ppbv
RT: 9.865 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion:104 Resp: 731

Ion	Ratio	Lower	Upper
104	100		
78	36.3	42.1	63.1#
103	48.2	37.2	55.8

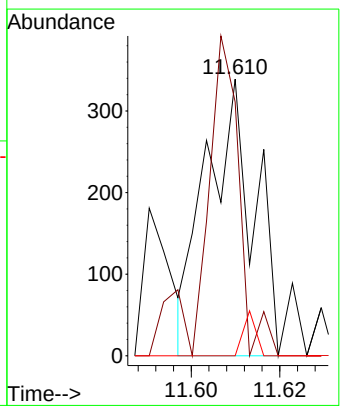


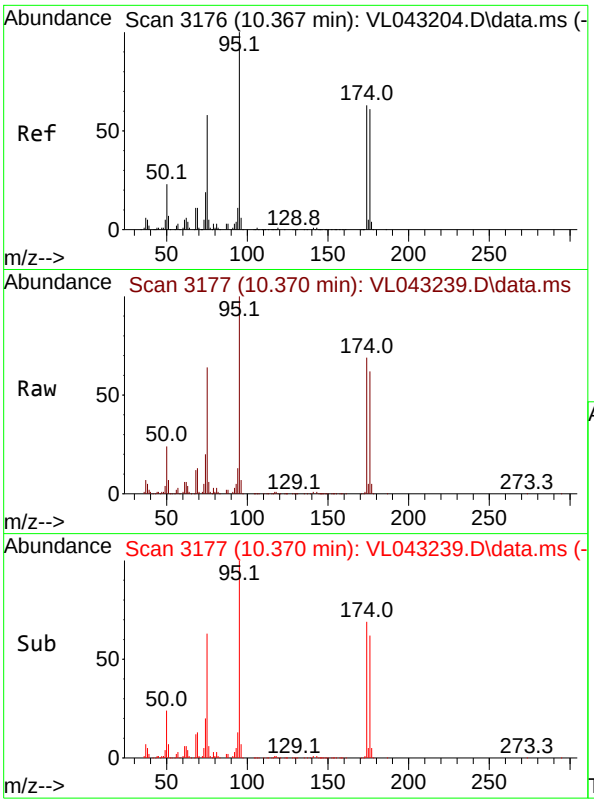


#66
Benzyl Chloride
Concen: 0.046 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion: 91 Resp: 254

Ion	Ratio	Lower	Upper
91	100		
126	81.9	14.4	21.6#
128	0.0	4.6	6.8#



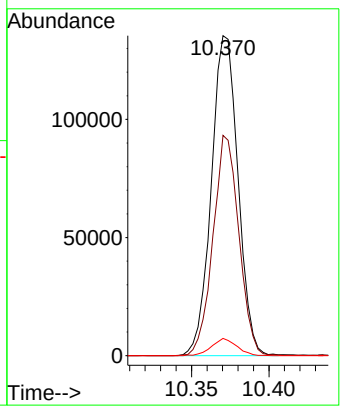


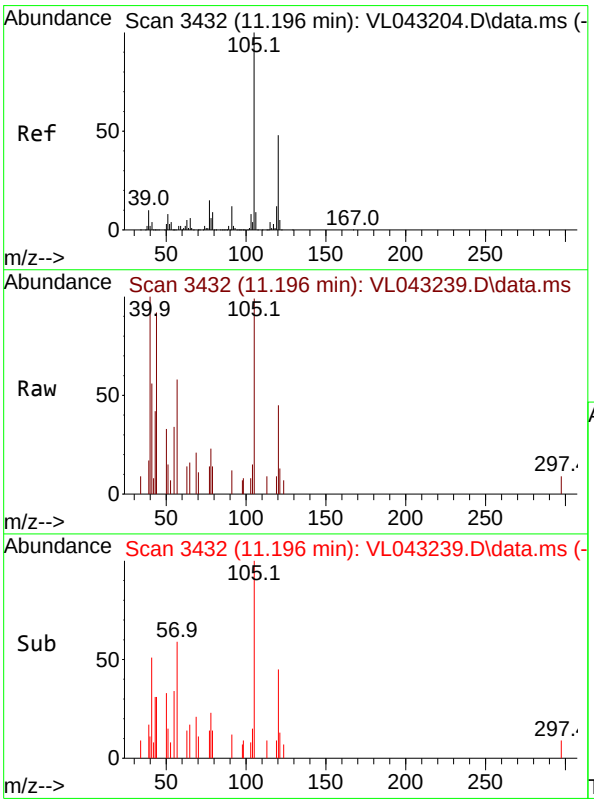
#68
1-Bromo-4-Fluorobenzene
Concen: 9.979 ppbv
RT: 10.370 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion: 95 Resp: 162206

Ion	Ratio	Lower	Upper
95	100		
174	67.0	50.2	75.2
175	5.1	4.1	6.1

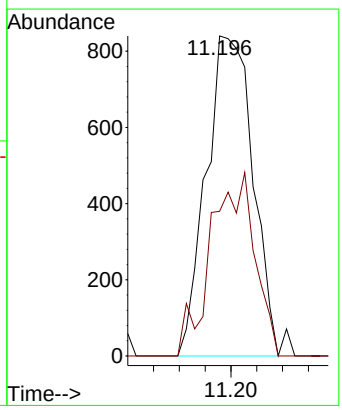


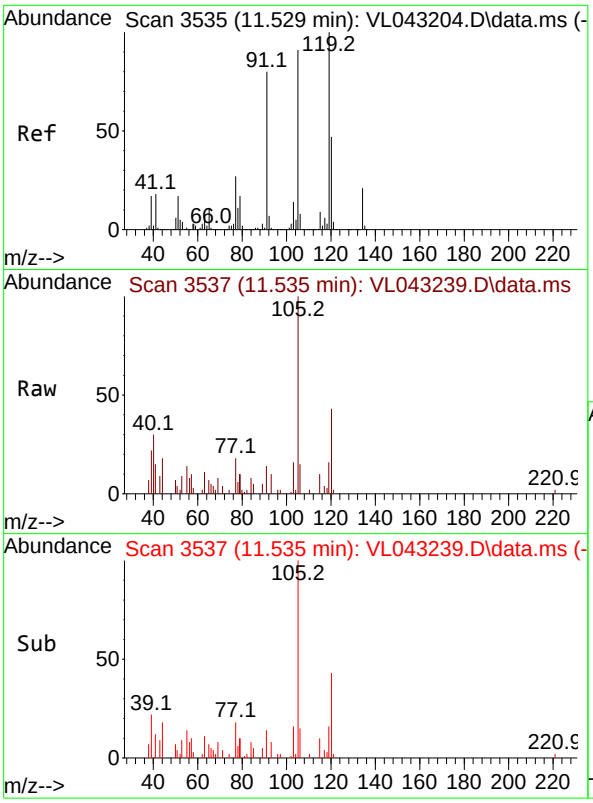


#73
1,3,5-Trimethylbenzene
Concen: 0.030 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. -0.000 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Tgt Ion:105 Resp: 1054

Ion	Ratio	Lower	Upper
105	100		
120	45.2	38.6	57.8



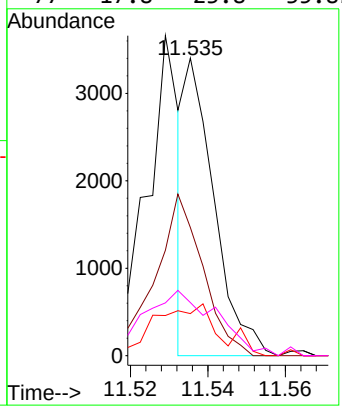


#74
1,2,4-Trimethylbenzene
Concen: 0.047 ppbv
RT: 11.535 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043239.D
Acq: 19 Nov 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1

Tgt Ion:105 Resp: 1781

Ion	Ratio	Lower	Upper
105	100		
120	43.1	41.7	62.5
91	14.1	70.0	105.0#
77	17.8	23.8	35.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043240.D
Acq On : 19 Nov 2025 15:32
Operator : SY/MD
Sample : Q3626-06 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Quant Time: Nov 20 00:06:04 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

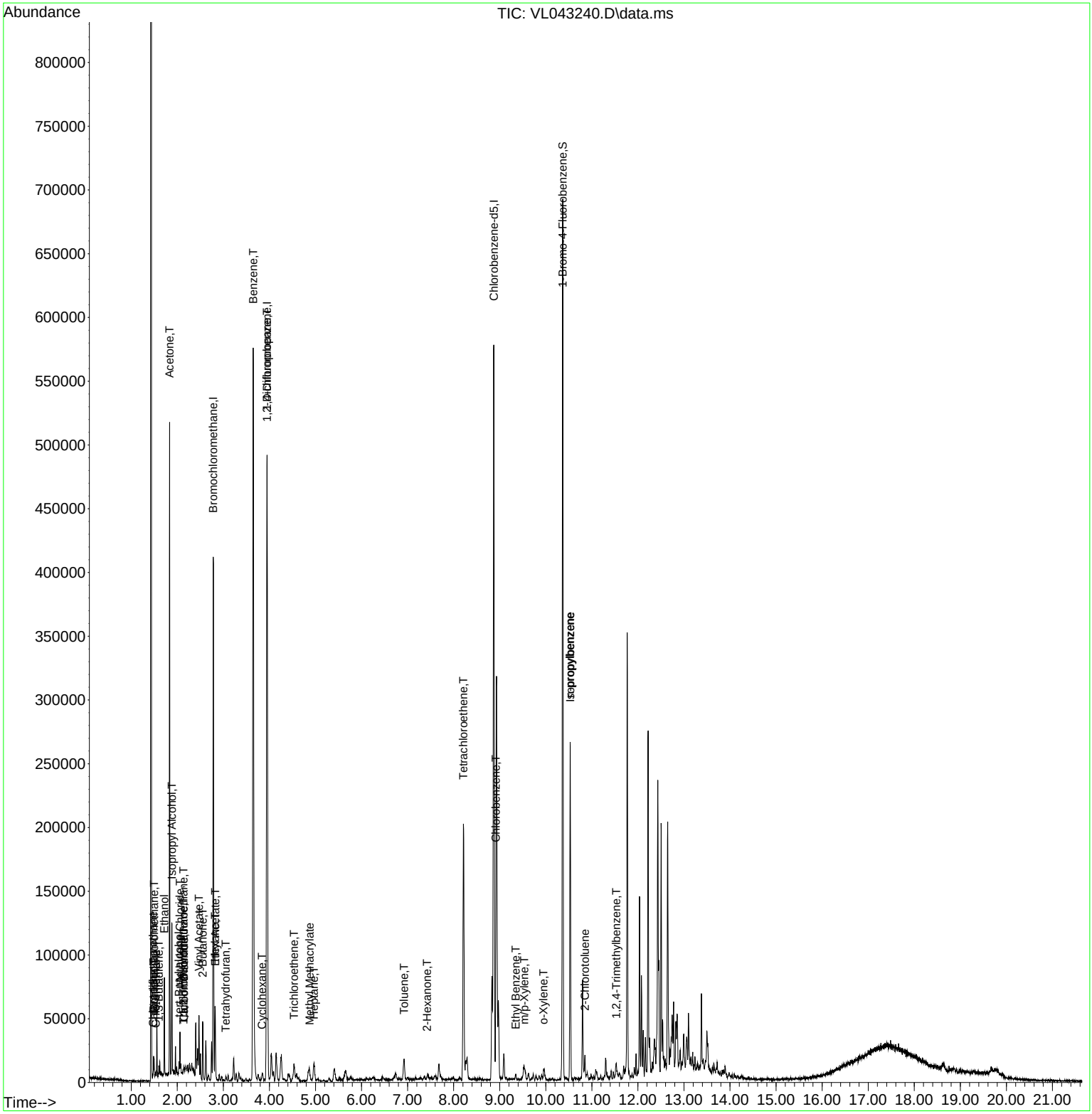
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	105671	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	288442	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	236337	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	169578	9.789	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3553	0.238	ppbv		98
3) Chlorodifluoromethane	1.476	51	2984	0.204	ppbv	#	89
4) Chloromethane	1.531	50	697	0.125	ppbv	#	78
9) Propene	1.486	41	1617	0.260	ppbv	#	1
10) Heptane	4.965	43	5910	0.319	ppbv		95
11) Trichlorofluoromethane	2.137	101	467	0.032	ppbv		91
12) 1,1,2-Trichlorotrifluo...	2.137	101	467	0.041	ppbv		93
13) Ethanol	1.719	45	25998	11.879	ppbv		97
15) Acetone	1.832	43	214462	14.608	ppbv		99
16) 1,3-Butadiene	1.599	39	852	0.130	ppbv	#	41
17) tert-Butyl alcohol	2.040	59	3964	0.206	ppbv	#	93
19) Isopropyl Alcohol	1.884	45	51636	6.224	ppbv	#	1
20) Methylene Chloride	2.059	84	4300	0.227	ppbv	#	85
23) Vinyl Acetate	2.470	43	12815	0.723	ppbv	#	45
25) Ethyl Acetate	2.823	43	9356	0.295	ppbv	#	83
26) Hexane	2.820	57	12616	0.909	ppbv	#	43
27) Carbon Disulfide	2.146	76	1693	0.119	ppbv	#	1
30) Cyclohexane	3.842	84	1429	0.123	ppbv	#	64
34) 2-Butanone	2.551	43	27468	1.349	ppbv		97
36) Benzene	3.648	78	354025	12.816	ppbv		98
38) Trichloroethene	4.532	130	1235	0.114	ppbv	#	69
39) 1,2-Dichloropropane	3.946	63	73030	7.223	ppbv	#	25
41) Tetrahydrofuran	3.053	42	988	0.088	ppbv	#	71
43) Methyl Methacrylate	4.872	69	3363	0.229	ppbv		96
51) 2-Hexanone	7.422	43	709	0.032	ppbv	#	29
52) Tetrachloroethene	8.212	164	34435	3.351	ppbv		94
53) Toluene	6.924	91	5443	0.166	ppbv	#	9
57) Chlorobenzene	8.917	112	1067	0.044	ppbv	#	64
58) Ethyl Benzene	9.348	91	2204	0.048	ppbv		94
59) m/p-Xylene	9.536	91	2405	0.066	ppbv	#	31
60) o-Xylene	9.953	91	1601	0.044	ppbv	#	51
62) Isopropylbenzene	10.532	105	120610	1.850	ppbv		99
64) n-propylbenzene	10.529	120	29456	1.759	ppbv	#	1
71) 2-Chlorotoluene	10.850	91	2001	0.040	ppbv	#	49
74) 1,2,4-Trimethylbenzene	11.529	105	2984	0.073	ppbv	#	54

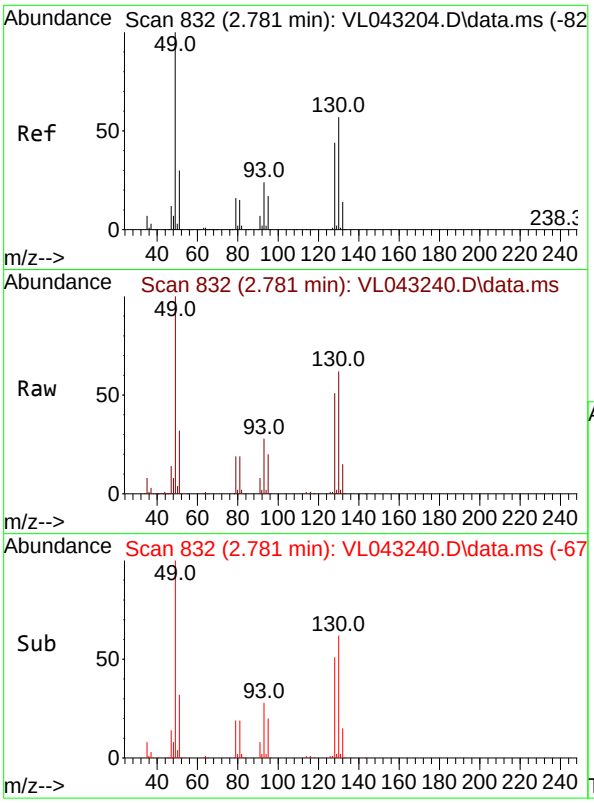
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043240.D
Acq On : 19 Nov 2025 15:32
Operator : SY/MD
Sample : Q3626-06 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Quant Time: Nov 20 00:06:04 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



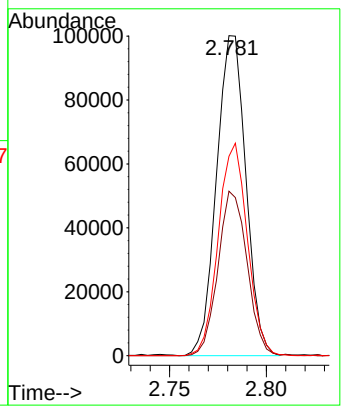


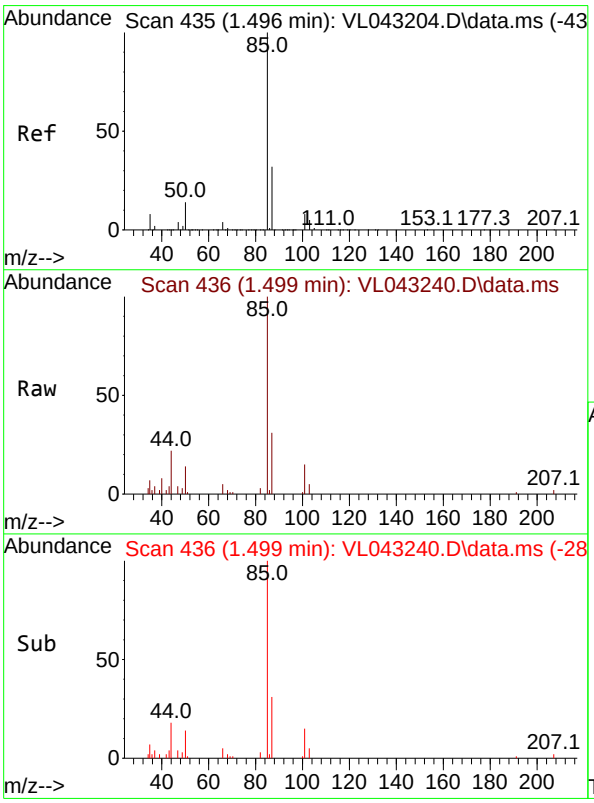
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 49 Resp: 105671

Ion	Ratio	Lower	Upper
49	100		
128	50.9	23.0	69.0
130	65.8	29.9	89.7

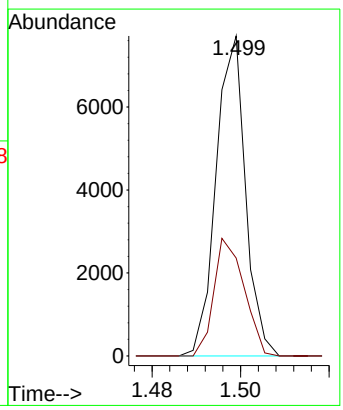


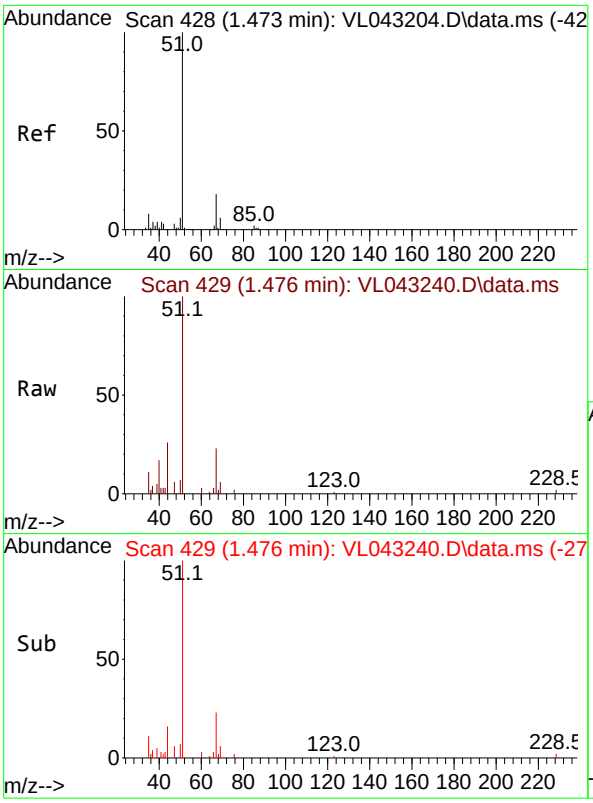


#2
Dichlorodifluoromethane
Concen: 0.238 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 85 Resp: 3553

Ion	Ratio	Lower	Upper
85	100		
87	30.6	25.4	38.2



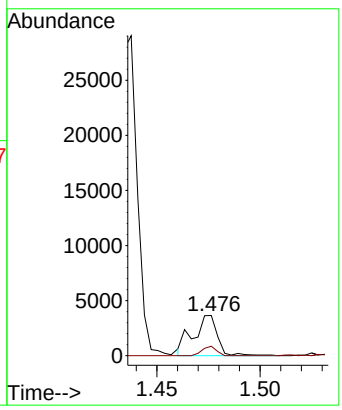


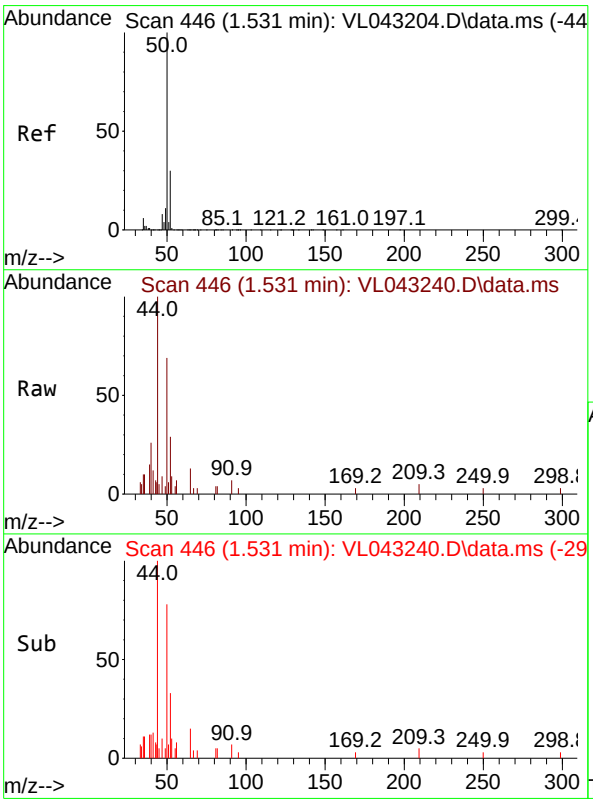
#3
Chlorodifluoromethane
Concen: 0.204 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 51 Resp: 2984

Ion	Ratio	Lower	Upper
51	100		
67	13.7	14.9	22.3#

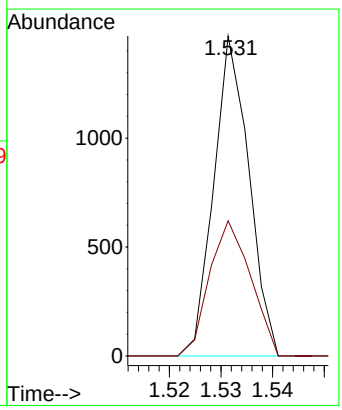


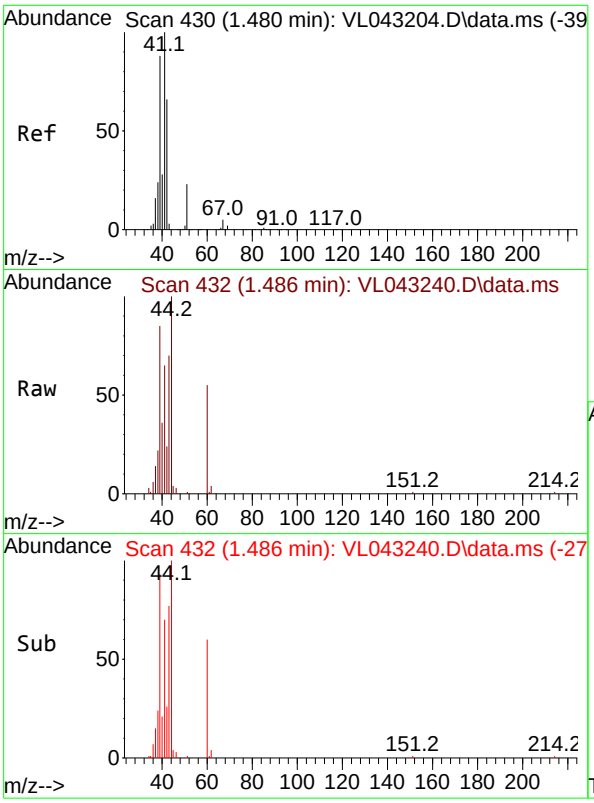


#4
Chloromethane
Concen: 0.125 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 50 Resp: 697

Ion	Ratio	Lower	Upper
50	100		
52	42.3	24.1	36.1#



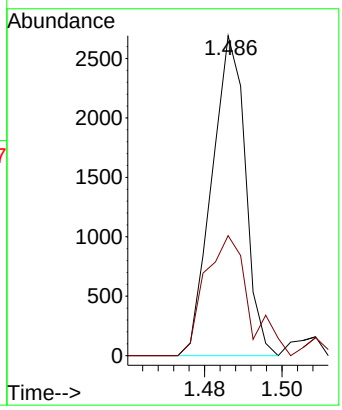


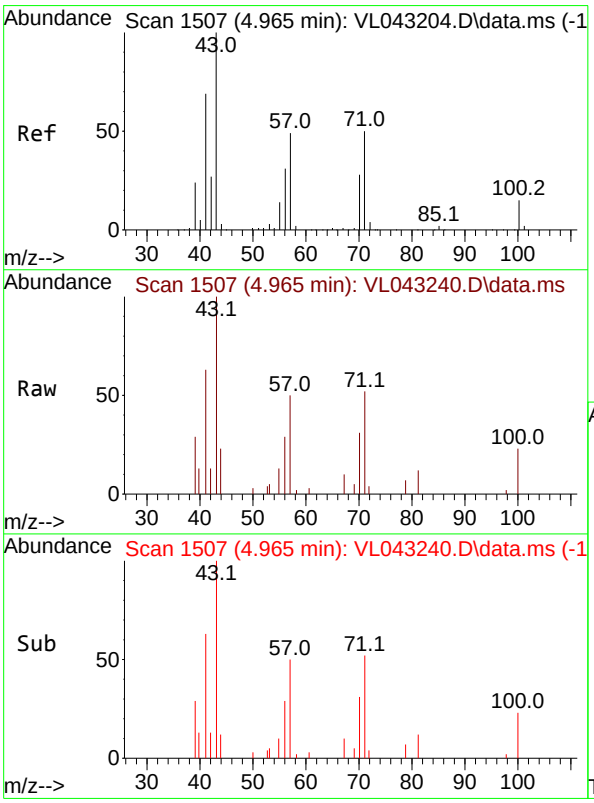
#9
Propene
Concen: 0.260 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 41 Resp: 1617

Ion	Ratio	Lower	Upper
41	100		
42	53.8	3.7	5.5#

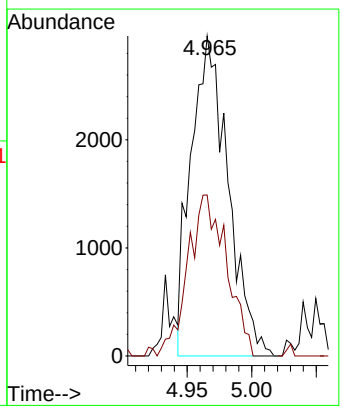


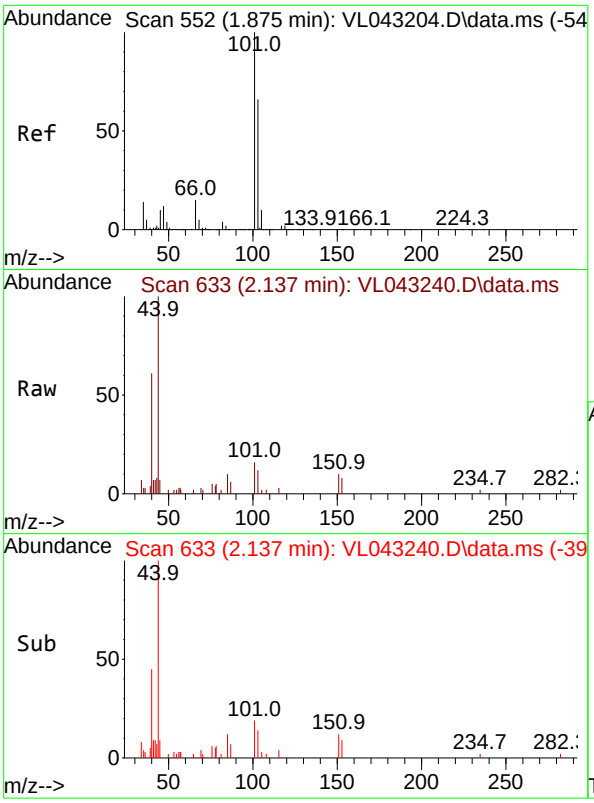


#10
Heptane
Concen: 0.319 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 43 Resp: 5910

Ion	Ratio	Lower	Upper
43	100		
57	52.8	39.7	59.5



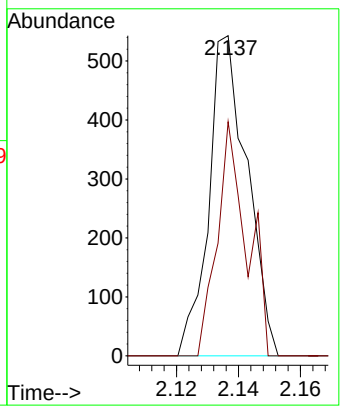


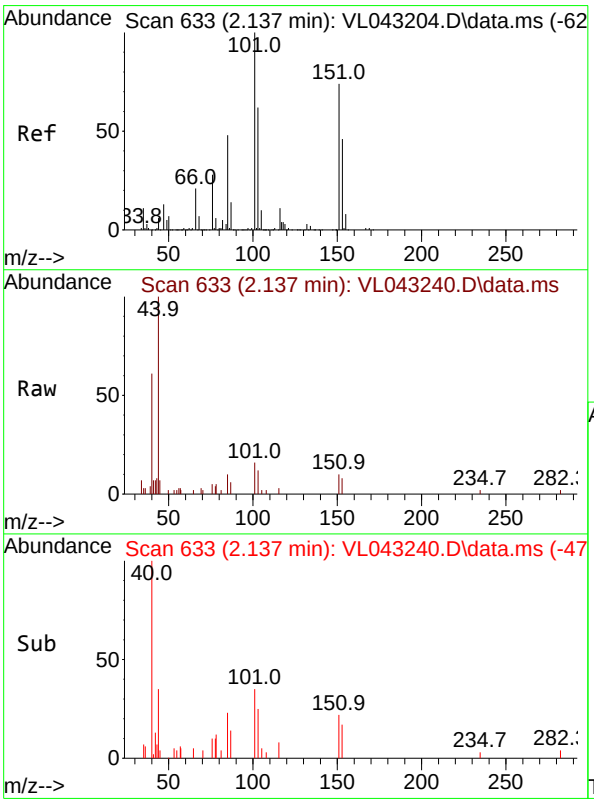
#11
Trichlorofluoromethane
Concen: 0.032 ppbv
RT: 2.137 min Scan# 6
Delta R.T. 0.262 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion:101 Resp: 467

Ion	Ratio	Lower	Upper
101	100		
103	73.1	52.6	79.0

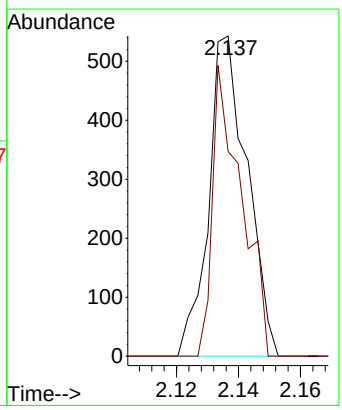


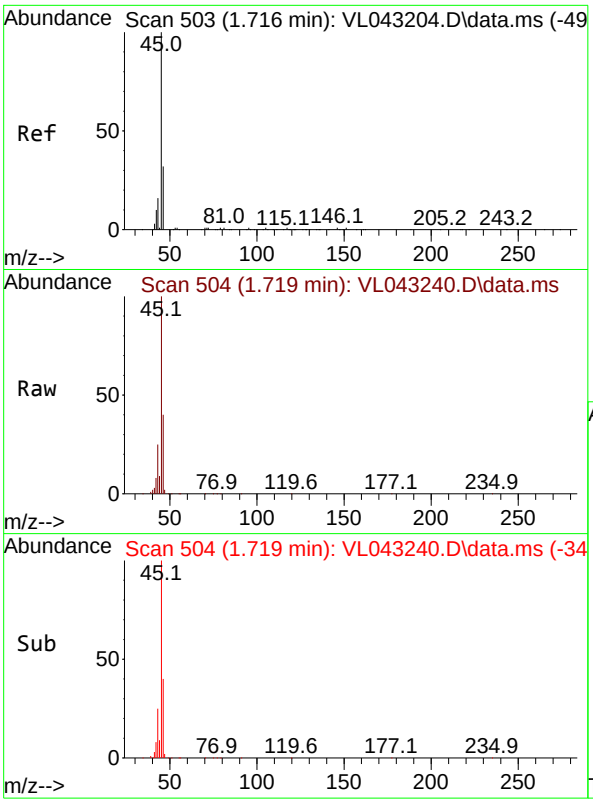


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.041 ppbv
RT: 2.137 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion:101 Resp: 467

Ion	Ratio	Lower	Upper
101	100		
151	68.1	59.2	88.8



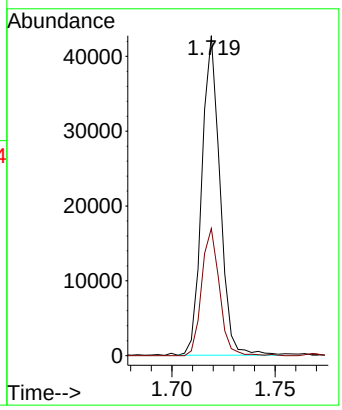


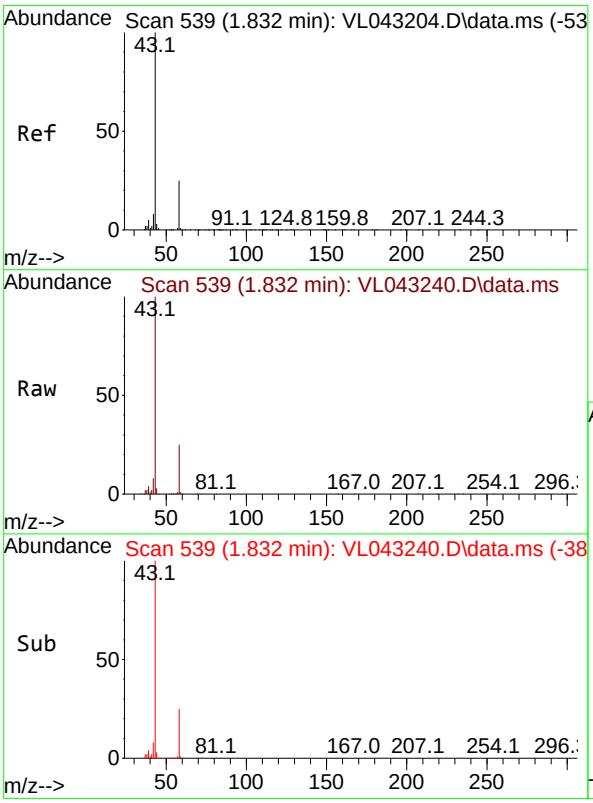
#13
Ethanol
Concen: 11.879 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 45 Resp: 25998

Ion	Ratio	Lower	Upper
45	100		
46	39.1	15.0	59.8

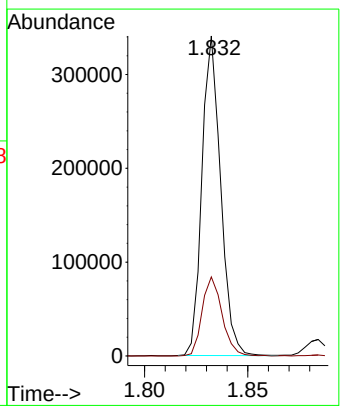


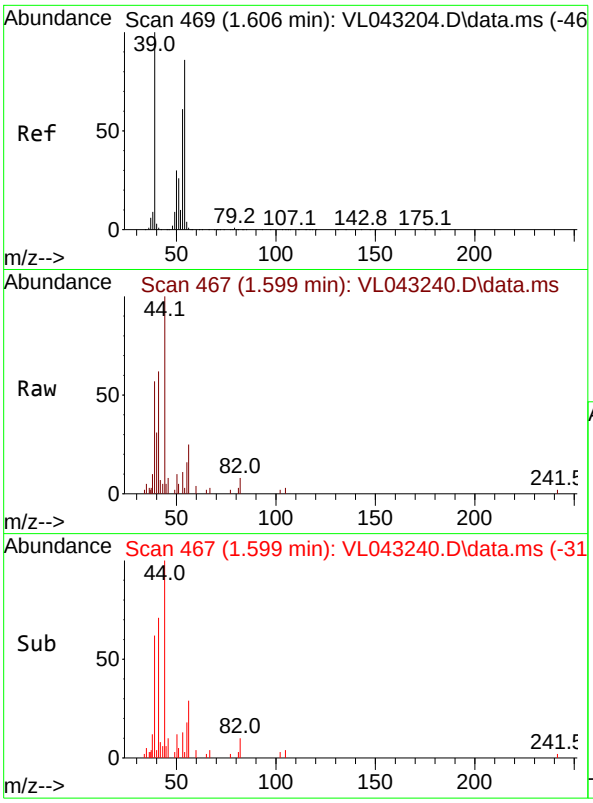


#15
Acetone
Concen: 14.608 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 43 Resp: 214462

Ion	Ratio	Lower	Upper
43	100		
58	26.4	20.7	31.1



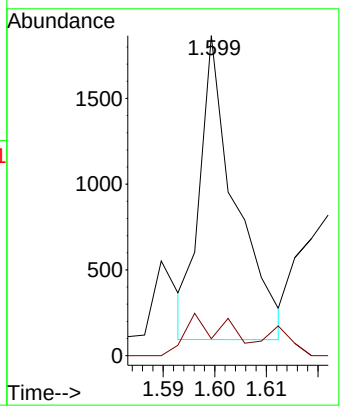


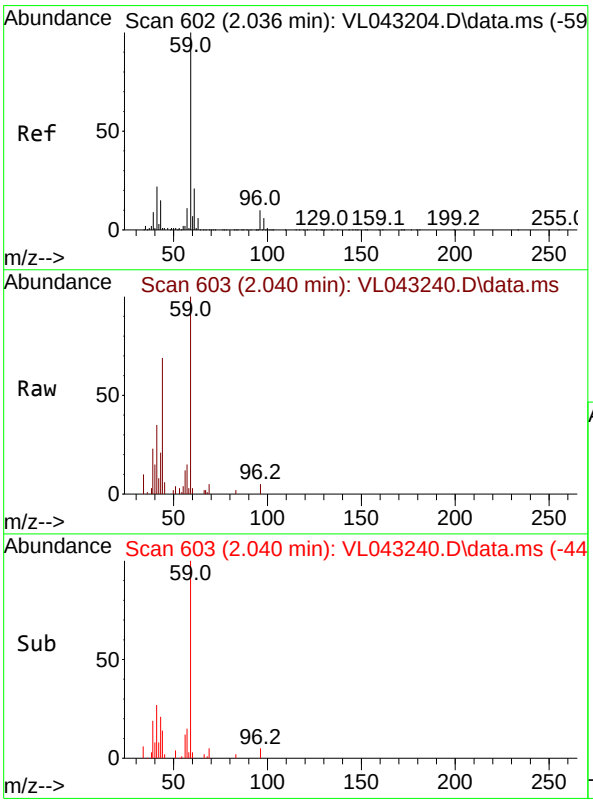
#16
1,3-Butadiene
Concen: 0.130 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 39 Resp: 852

Ion	Ratio	Lower	Upper
39	100		
54	24.6	59.4	89.2#

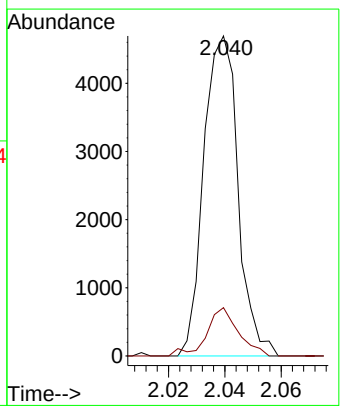


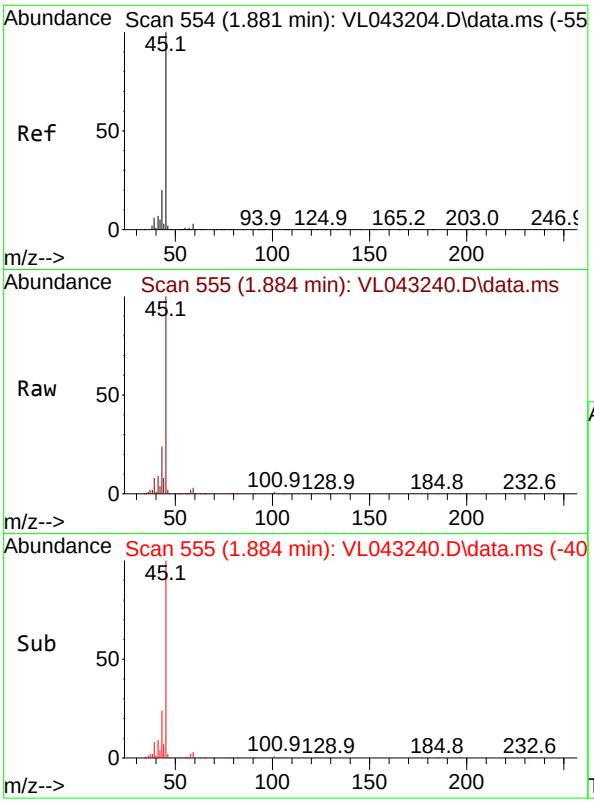


#17
tert-Butyl alcohol
Concen: 0.206 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 59 Resp: 3964

Ion	Ratio	Lower	Upper
59	100		
57	13.9	9.0	13.4#



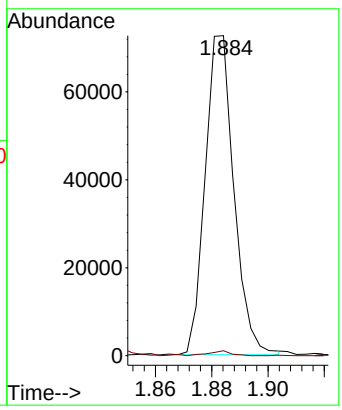


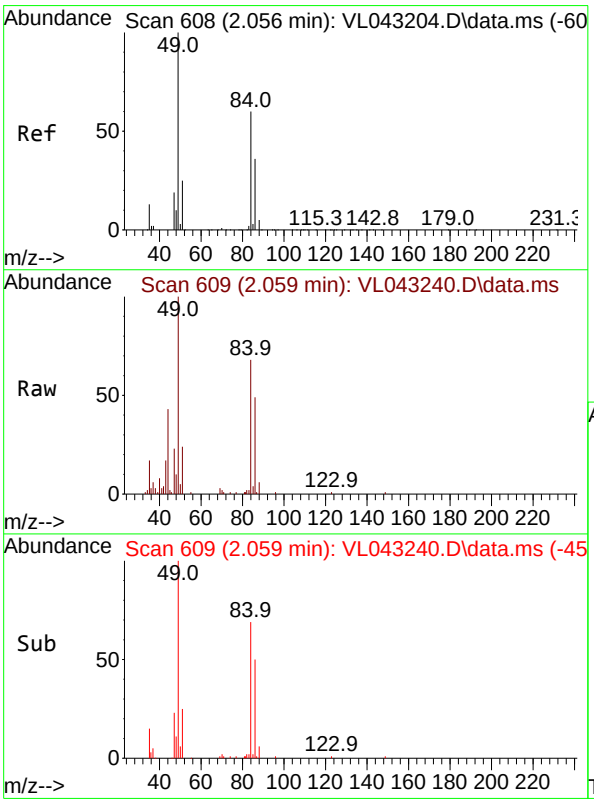
#19
Isopropyl Alcohol
Concen: 6.224 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 45 Resp: 51636

Ion	Ratio	Lower	Upper
45	100		
58	109.5	31.3	46.9#

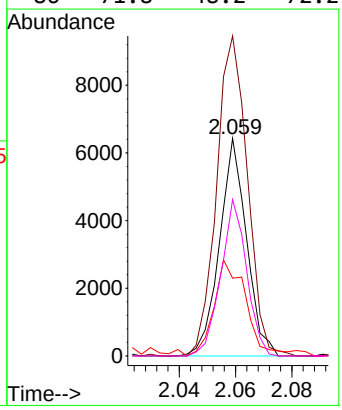


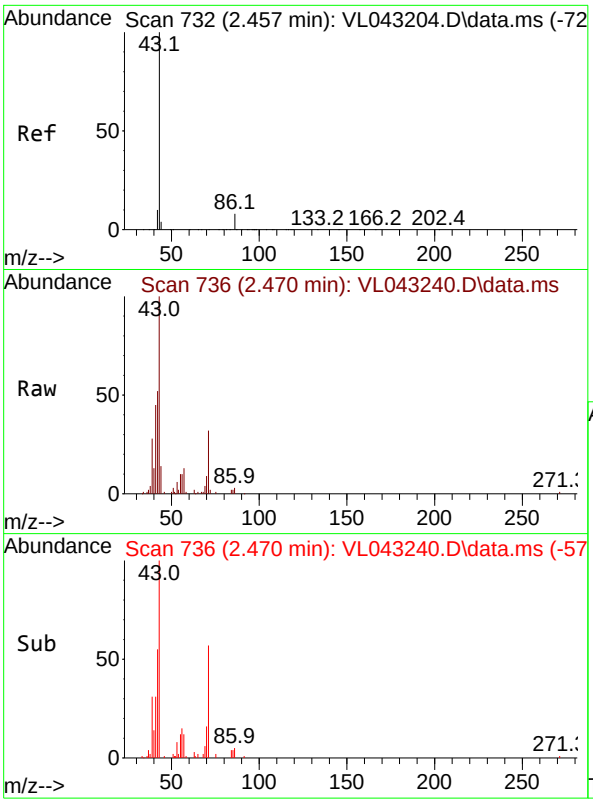


#20
Methylene Chloride
Concen: 0.227 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 84 Resp: 4300

Ion	Ratio	Lower	Upper
84	100		
49	145.4	132.9	199.3
51	33.5	34.8	52.2#
86	71.8	48.2	72.2



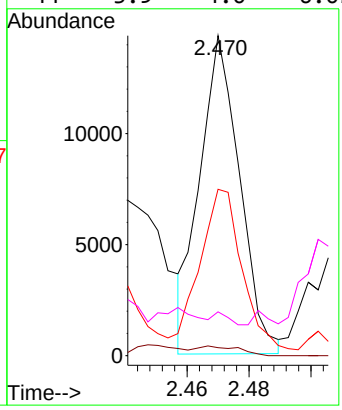


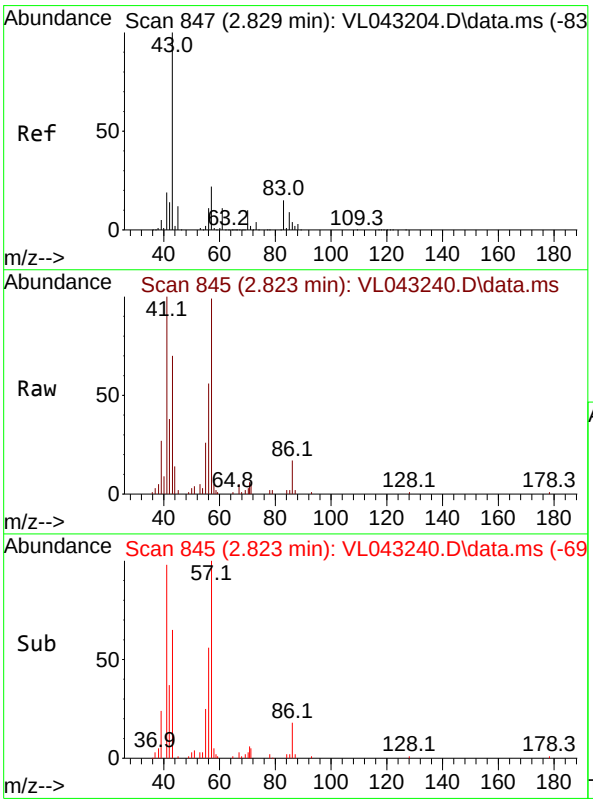
#23
Vinyl Acetate
Concen: 0.723 ppbv
RT: 2.470 min Scan# 7
Delta R.T. 0.013 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 43 Resp: 12815

Ion	Ratio	Lower	Upper
43	100		
86	2.7	6.2	9.2#
42	51.4	8.0	12.0#
44	3.9	4.0	6.0#

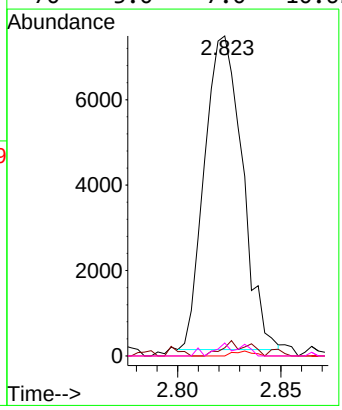


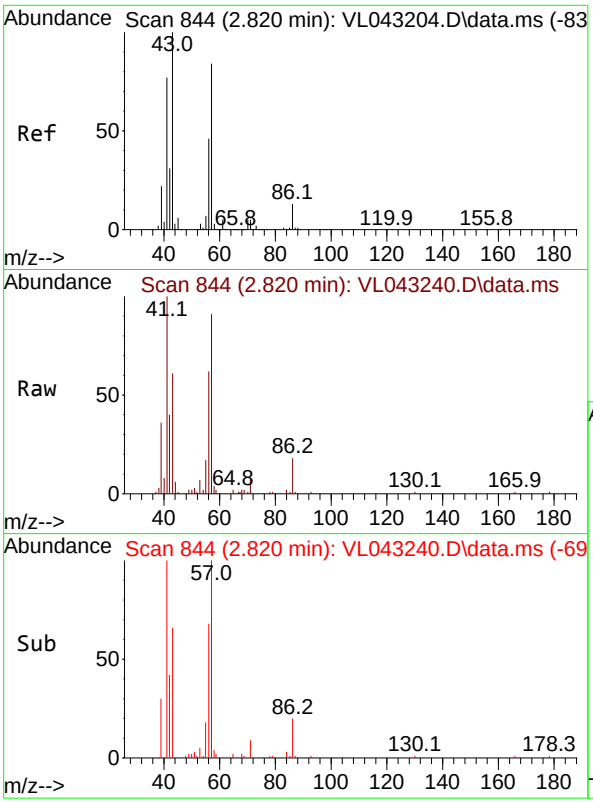


#25
Ethyl Acetate
Concen: 0.295 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.007 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 43 Resp: 9356

Ion	Ratio	Lower	Upper
43	100		
45	4.9	8.1	12.1#
61	0.8	7.0	10.4#
70	3.0	7.0	10.6#



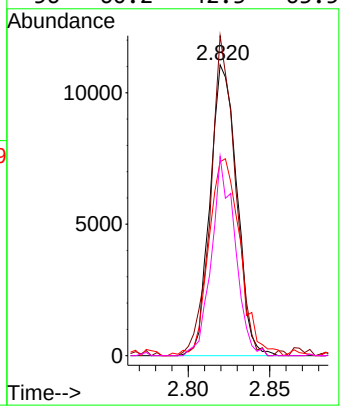


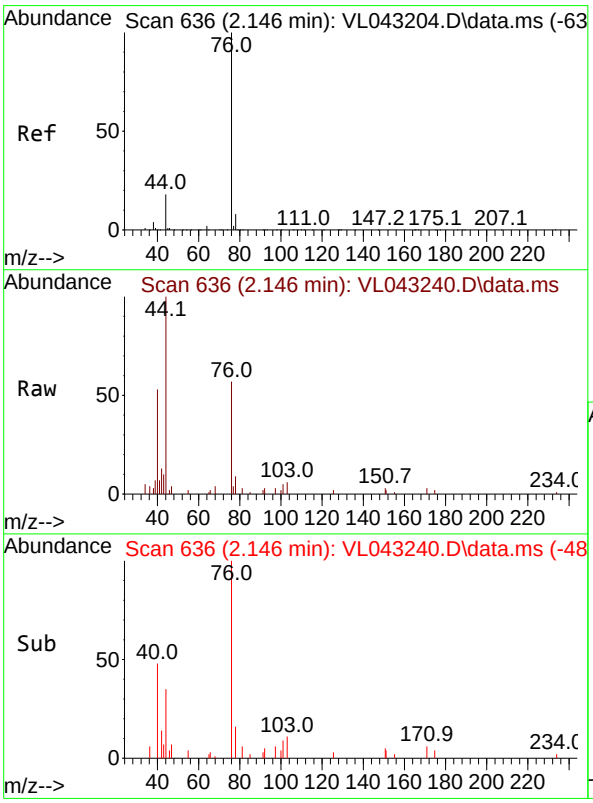
#26
Hexane
Concen: 0.909 ppbv
RT: 2.820 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 57 Resp: 12616

Ion	Ratio	Lower	Upper
57	100		
41	102.0	74.6	111.8
43	80.0	179.0	268.4#
56	60.2	42.3	63.5

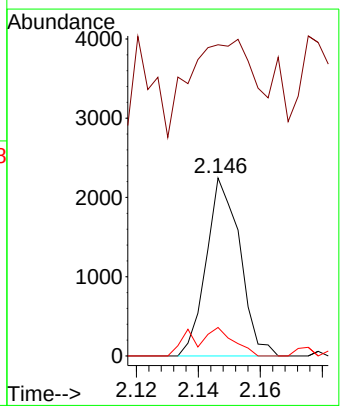


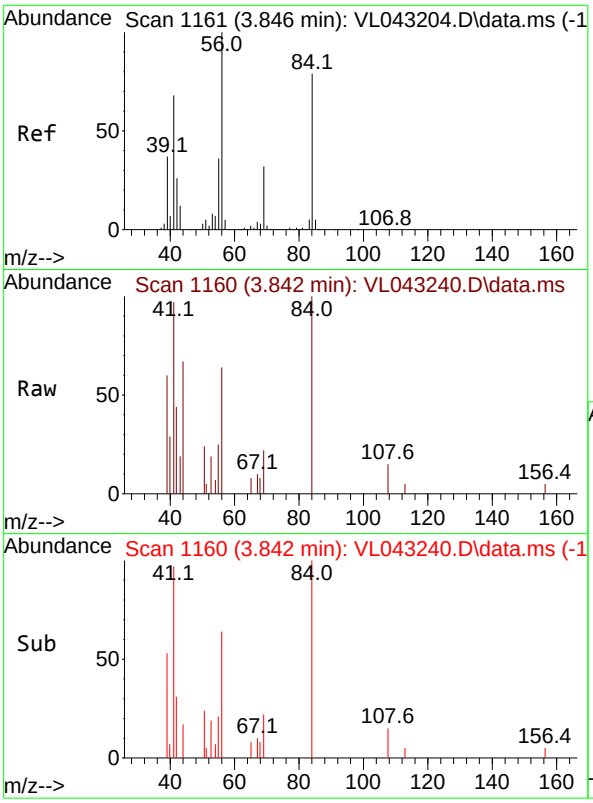


#27
Carbon Disulfide
Concen: 0.119 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 76 Resp: 1693

Ion	Ratio	Lower	Upper
76	100		
44	153.9	16.1	24.1#
78	19.4	9.6	14.4#



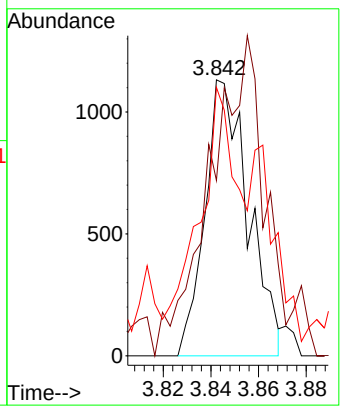


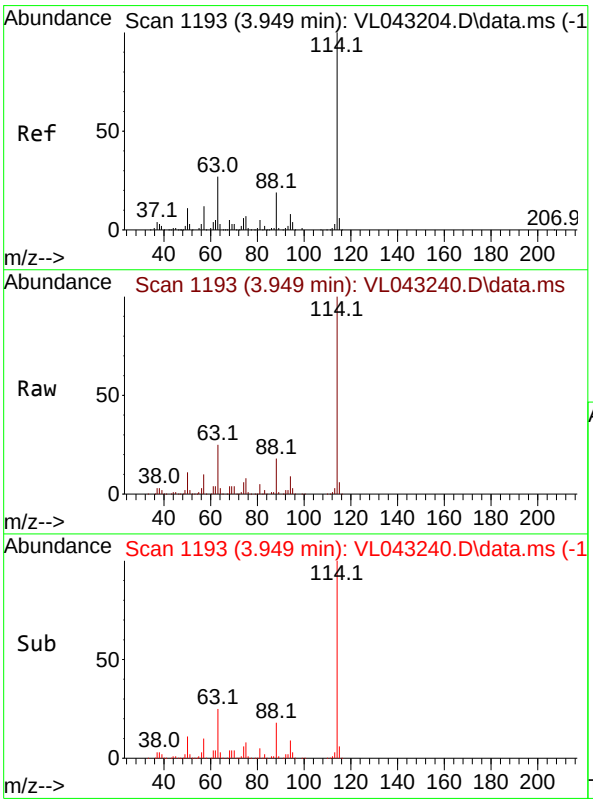
#30
Cyclohexane
Concen: 0.123 ppbv
RT: 3.842 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 84 Resp: 1429

Ion	Ratio	Lower	Upper
84	100		
56	159.6	104.7	157.1#
41	135.7	69.0	103.6#

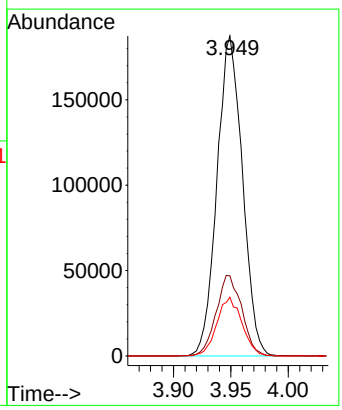


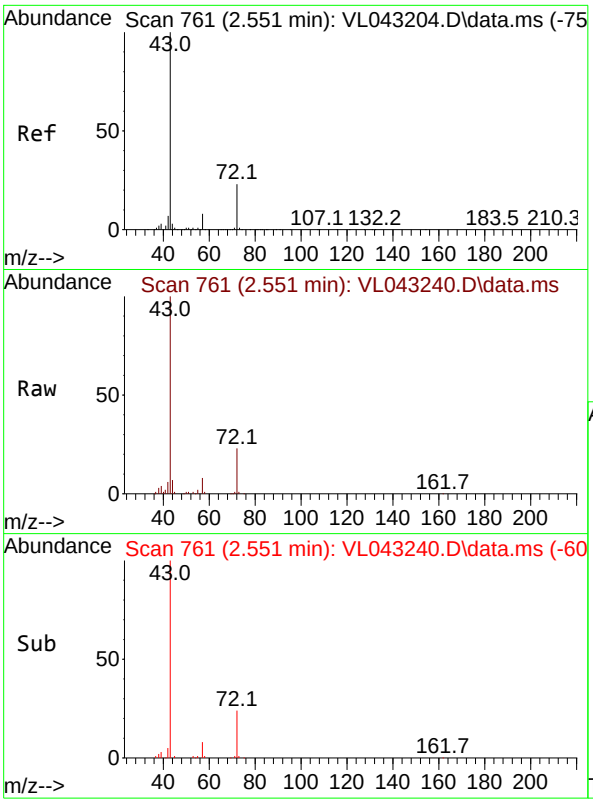


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion:114 Resp: 288442

Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.0	31.6
88	18.1	14.9	22.3



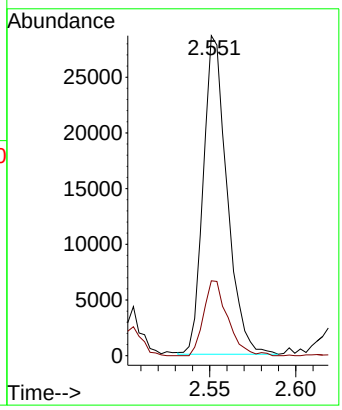


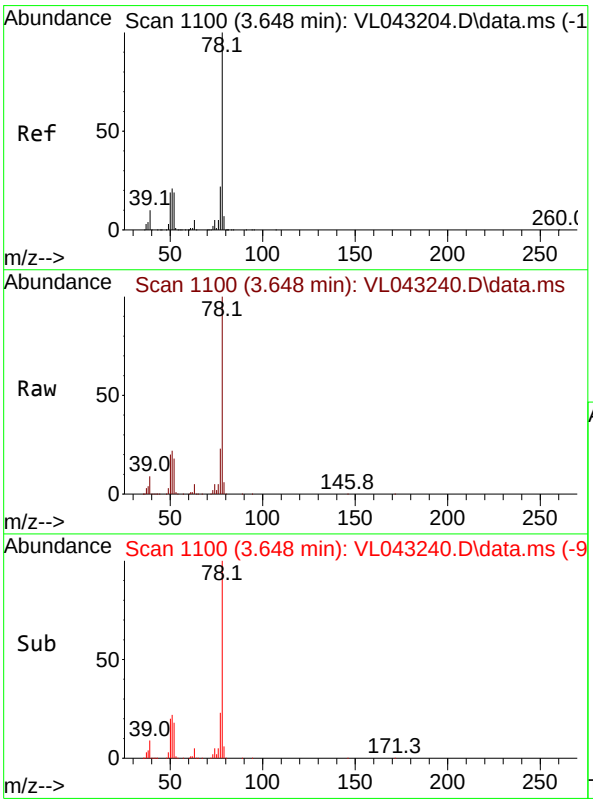
#34
2-Butanone
Concen: 1.349 ppbv
RT: 2.551 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 43 Resp: 27468

Ion	Ratio	Lower	Upper
43	100		
72	23.9	18.1	27.1

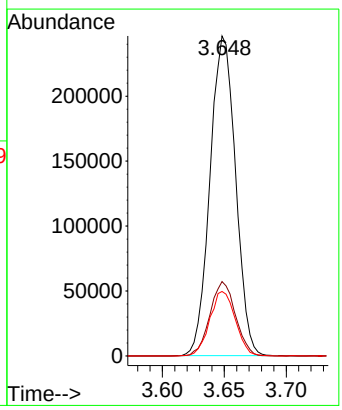


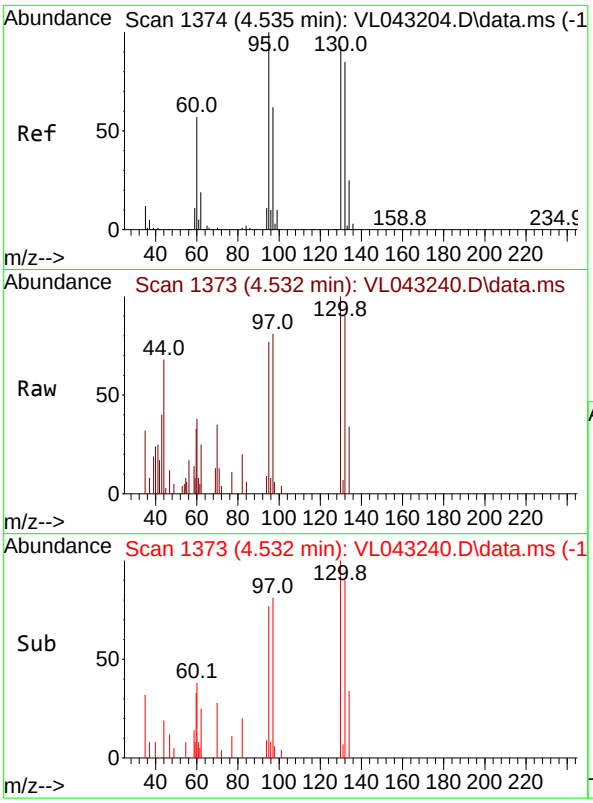


#36
Benzene
Concen: 12.816 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 78 Resp: 354025

Ion	Ratio	Lower	Upper
78	100		
77	23.2	17.5	26.3
50	20.2	15.5	23.3



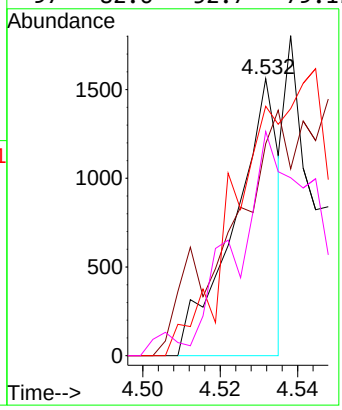


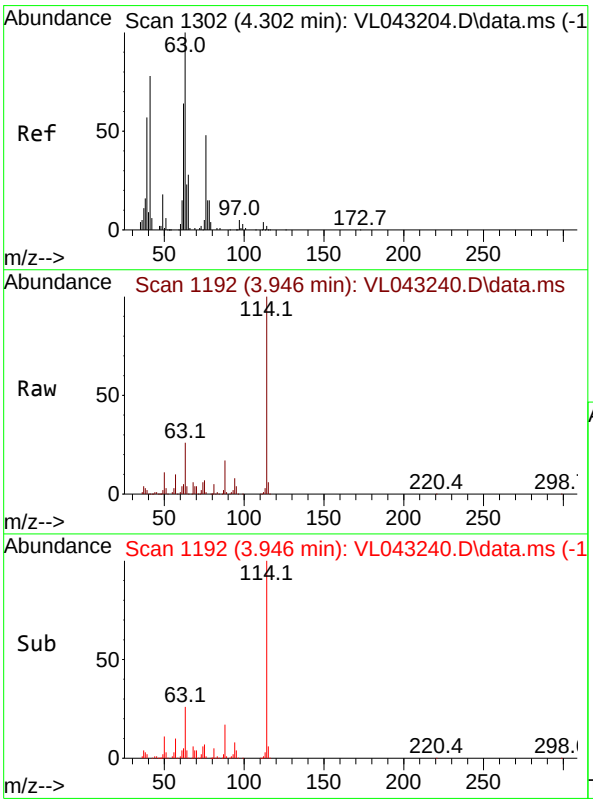
#38
Trichloroethene
Concen: 0.114 ppbv
RT: 4.532 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion:130 Resp: 1235

Ion	Ratio	Lower	Upper
130	100		
95	53.4	85.7	128.5#
132	78.7	73.4	110.0
97	82.6	52.7	79.1#

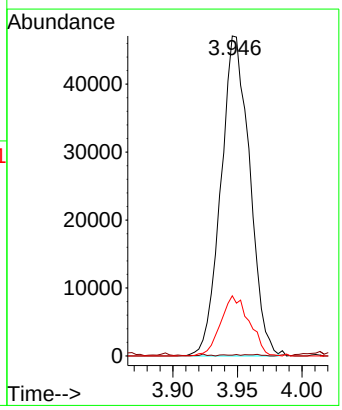


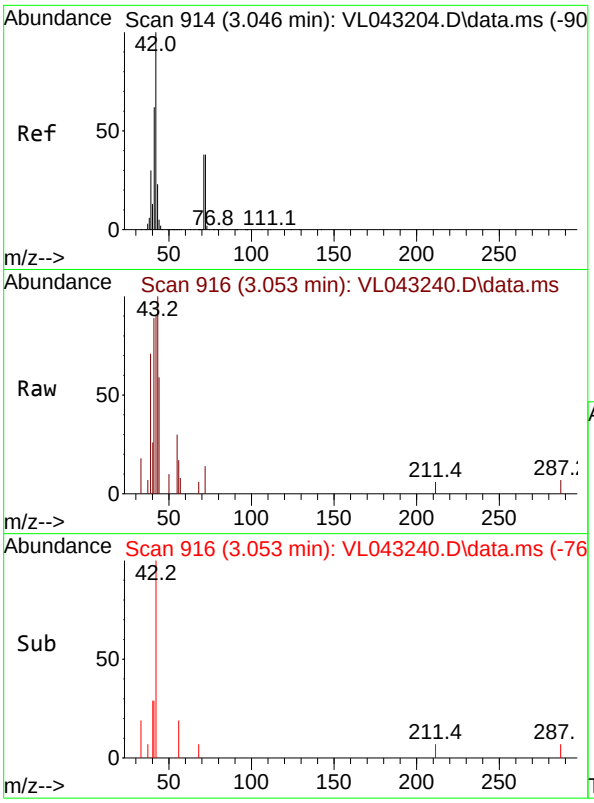


#39
1,2-Dichloropropane
Concen: 7.223 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.356 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 63 Resp: 73030

Ion	Ratio	Lower	Upper
63	100		
41	0.1	62.6	93.8#
62	18.8	51.0	76.6#



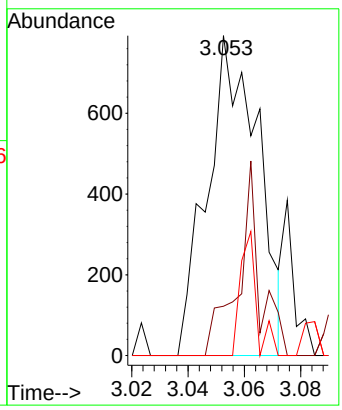


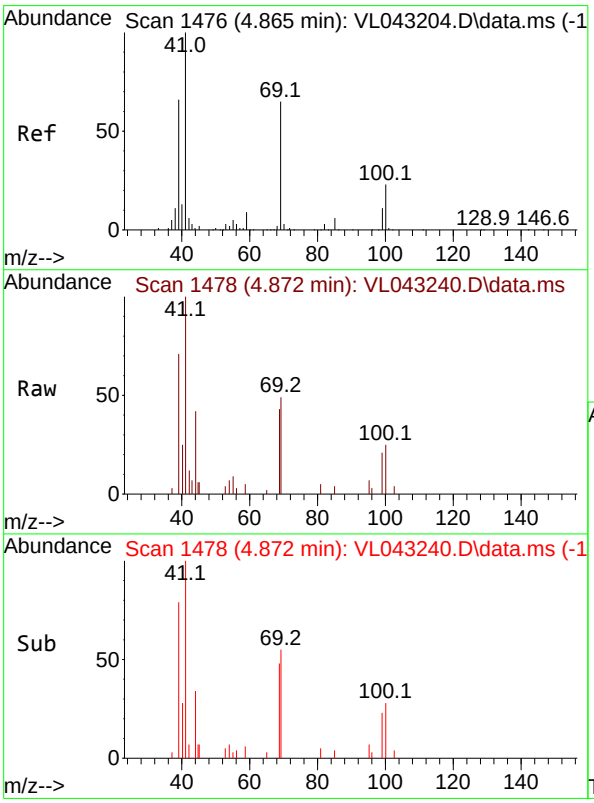
#41
Tetrahydrofuran
Concen: 0.088 ppbv
RT: 3.053 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 42 Resp: 988

Ion	Ratio	Lower	Upper
42	100		
72	26.2	30.6	46.0#
71	15.6	30.5	45.7#

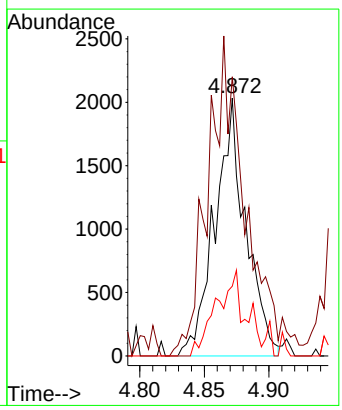


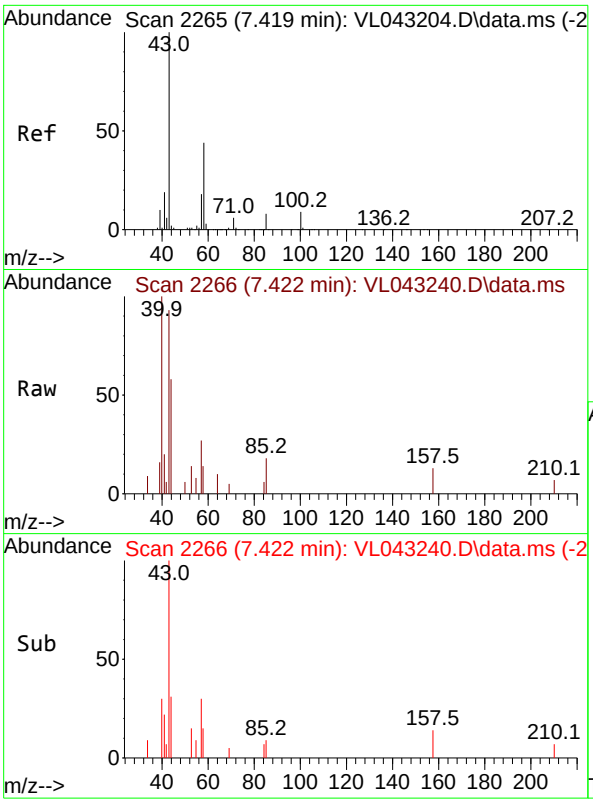


#43
Methyl Methacrylate
Concen: 0.229 ppbv
RT: 4.872 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 69 Resp: 3363

Ion	Ratio	Lower	Upper
69	100		
41	152.4	126.7	190.1
100	35.0	28.6	43.0



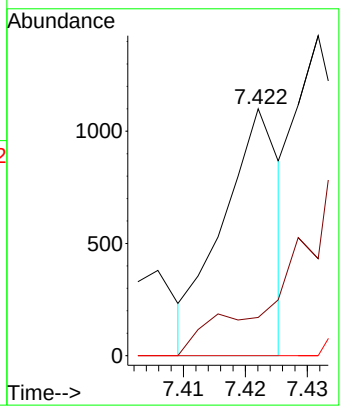


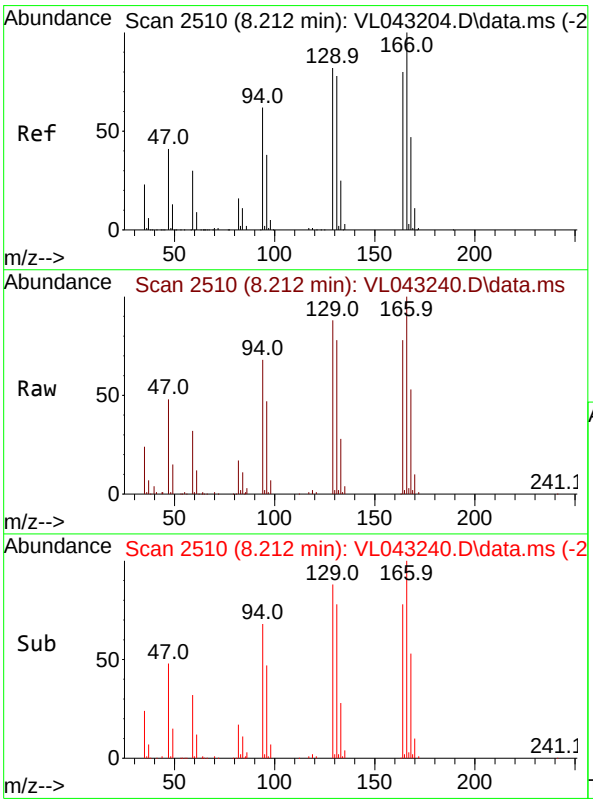
#51
2-Hexanone
Concen: 0.032 ppbv
RT: 7.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 43 Resp: 709

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

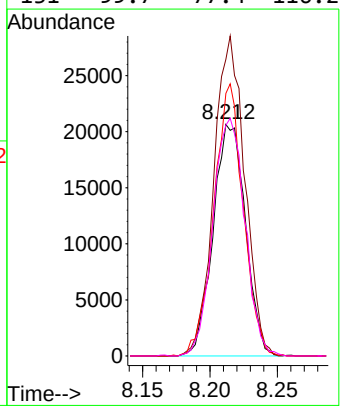


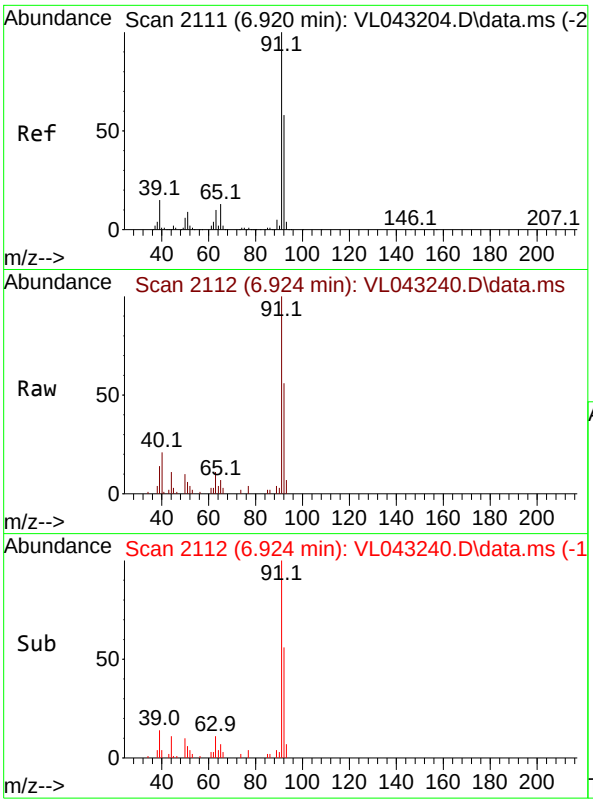


#52
Tetrachloroethene
Concen: 3.351 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion:164 Resp: 34435

Ion	Ratio	Lower	Upper
164	100		
166	128.1	99.4	149.2
129	113.4	81.8	122.8
131	99.7	77.4	116.2



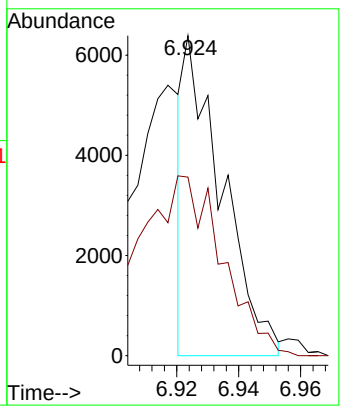


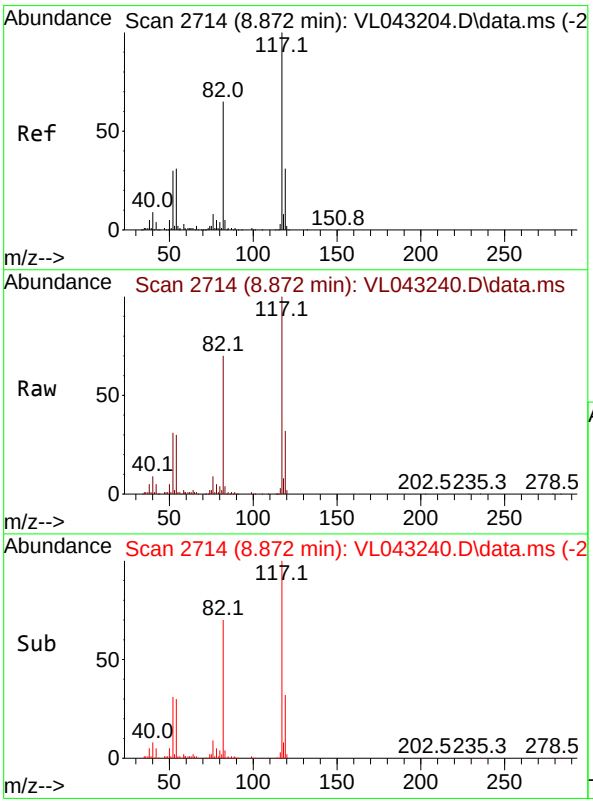
#53
Toluene
Concen: 0.166 ppbv
RT: 6.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 91 Resp: 5443

Ion	Ratio	Lower	Upper
91	100		
92	127.8	47.4	71.0#

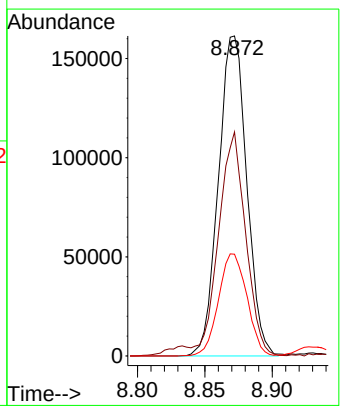


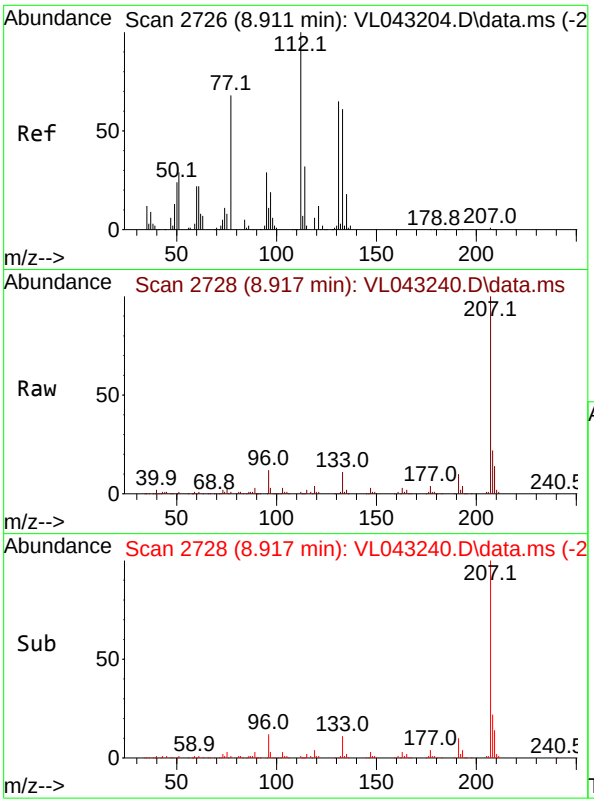


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion:117 Resp: 236337

Ion	Ratio	Lower	Upper
117	100		
82	69.6	56.1	84.1
119	32.1	25.0	37.6



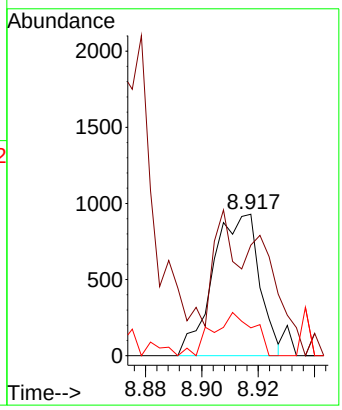


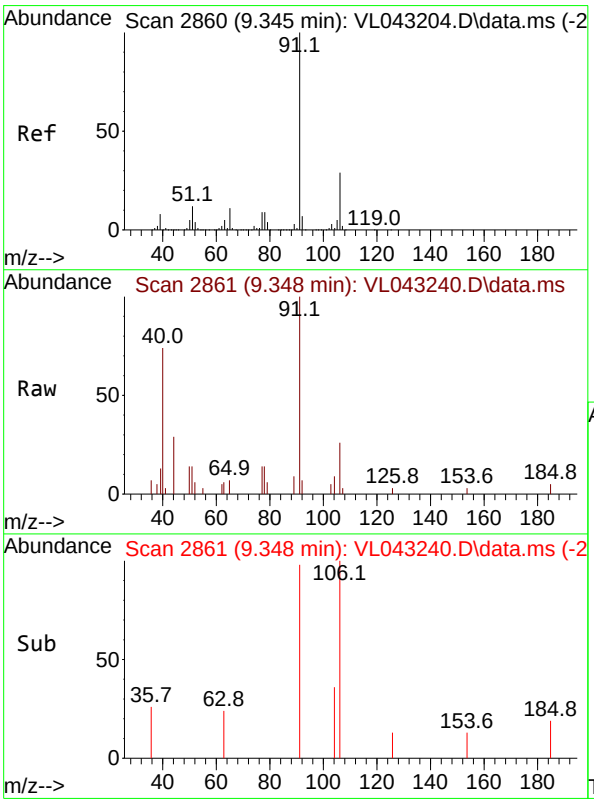
#57
Chlorobenzene
Concen: 0.044 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion:112 Resp: 1067

Ion	Ratio	Lower	Upper
112	100		
77	34.6	55.5	83.3#
114	19.7	29.1	35.5#

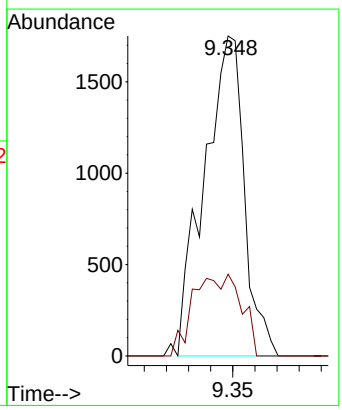


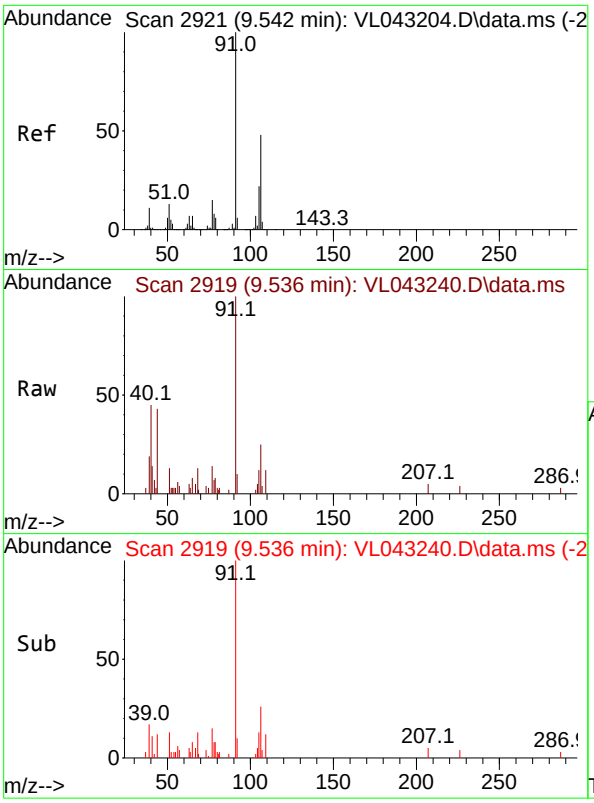


#58
Ethyl Benzene
Concen: 0.048 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 91 Resp: 2204

Ion	Ratio	Lower	Upper
91	100		
106	25.5	22.8	34.2



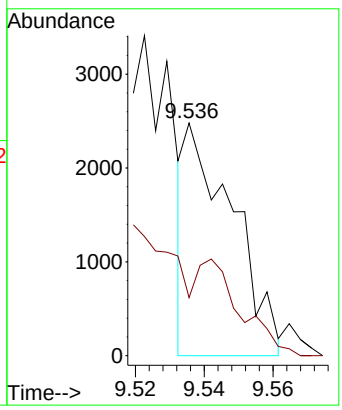


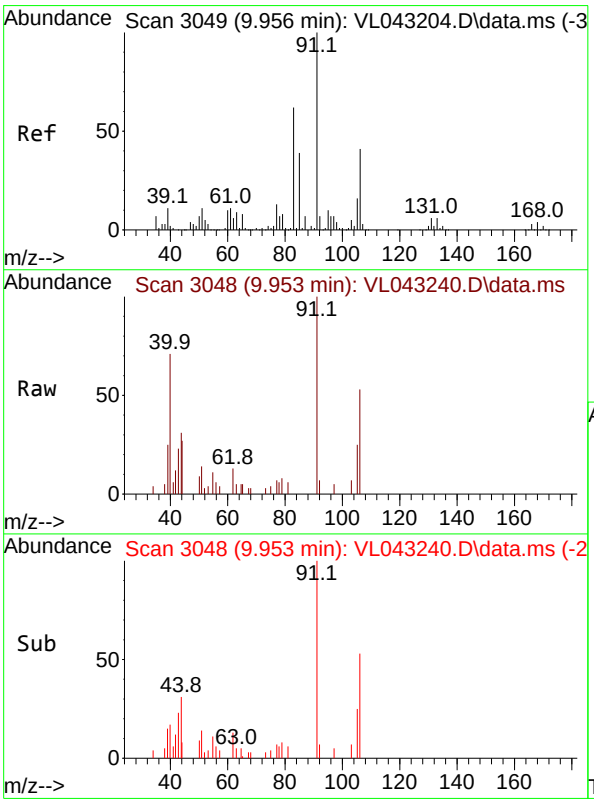
#59
m/p-Xylene
Concen: 0.066 ppbv
RT: 9.536 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 91 Resp: 2405

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

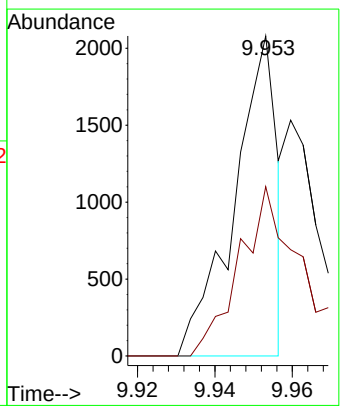


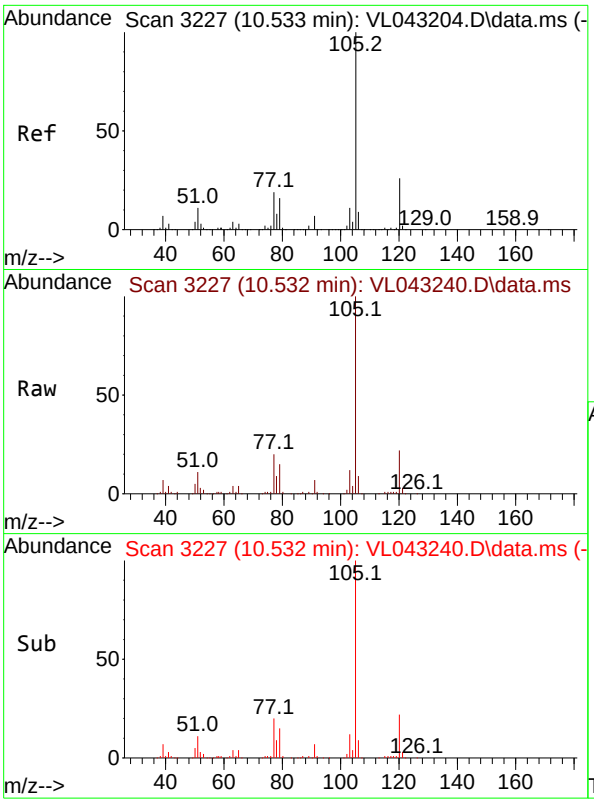


#60
o-Xylene
Concen: 0.044 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.003 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 91 Resp: 1601

Ion	Ratio	Lower	Upper
91	100		
106	72.6	20.9	62.8#



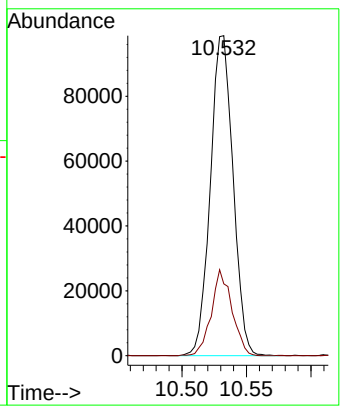


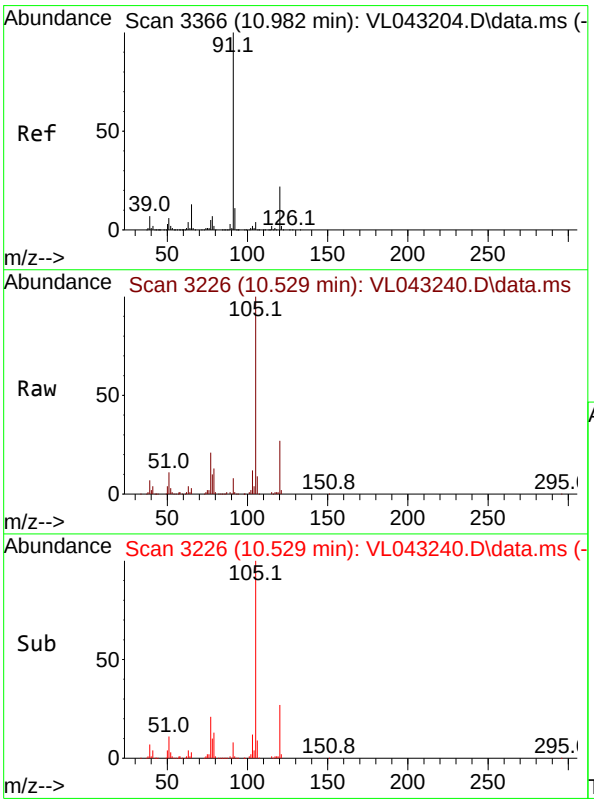
#62
Isopropylbenzene
Concen: 1.850 ppbv
RT: 10.532 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion:105 Resp: 120610

Ion	Ratio	Lower	Upper
105	100		
120	24.4	19.8	29.8

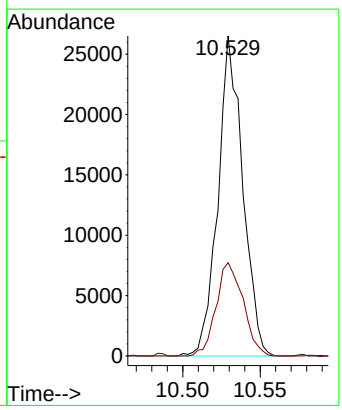


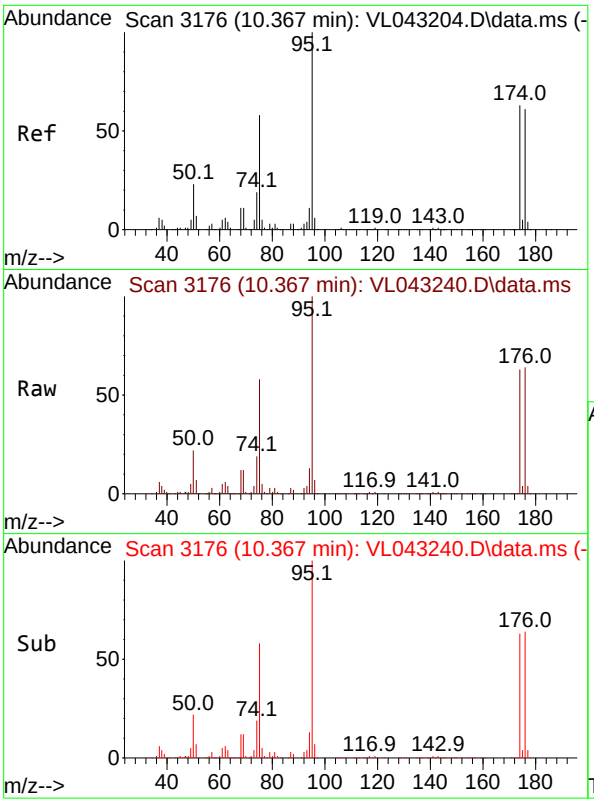


#64
n-propylbenzene
Concen: 1.759 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.453 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion:120 Resp: 29456

Ion	Ratio	Lower	Upper
120	100		
91	31.8	377.1	565.7#



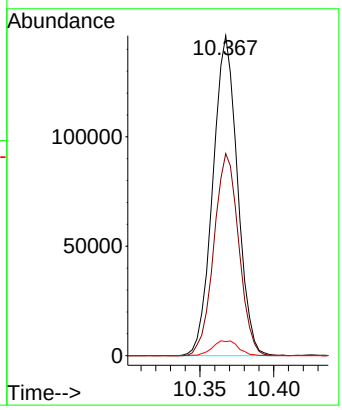


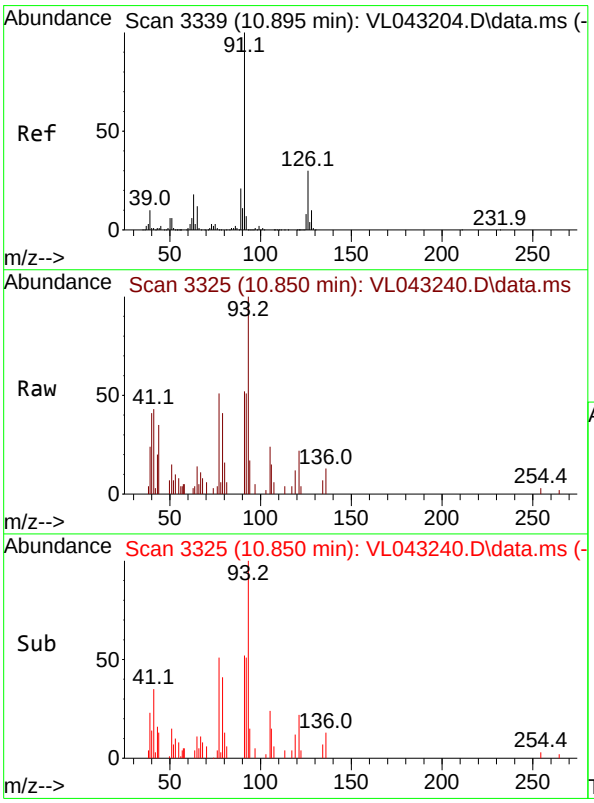
#68
1-Bromo-4-Fluorobenzene
Concen: 9.789 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion: 95 Resp: 169578

Ion	Ratio	Lower	Upper
95	100		
174	64.1	50.2	75.2
175	5.0	4.1	6.1

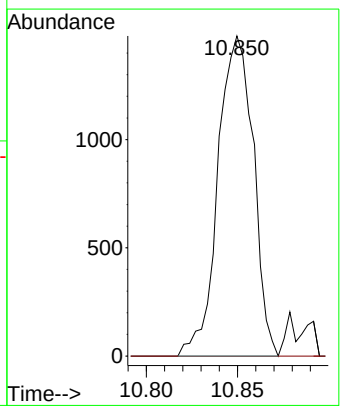


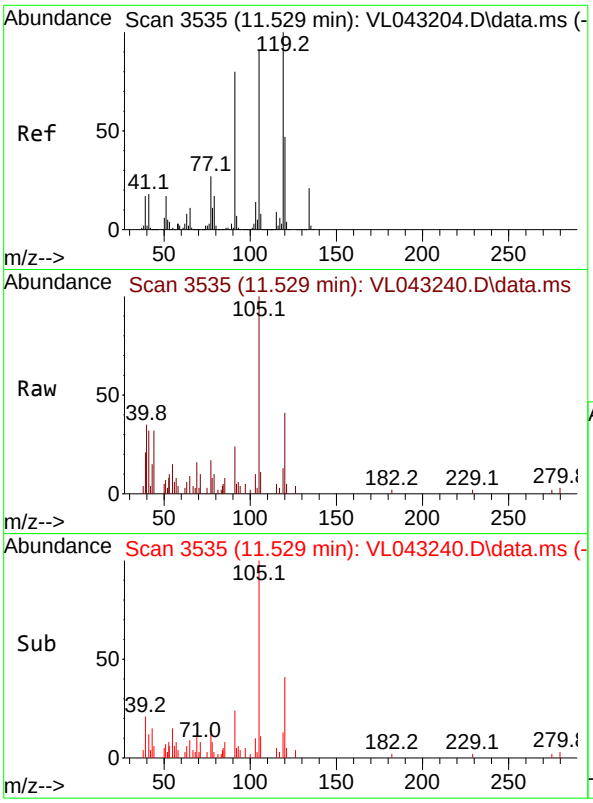


#71
2-Chlorotoluene
Concen: 0.040 ppbv
RT: 10.850 min Scan# 3325
Delta R.T. -0.045 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Tgt Ion: 91 Resp: 2001

Ion	Ratio	Lower	Upper
91	100		
126	2.0	11.7	46.7#



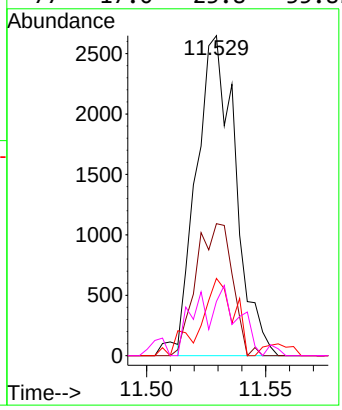


#74
1,2,4-Trimethylbenzene
Concen: 0.073 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043240.D
Acq: 19 Nov 2025 15:32

Instrument :
MSVOA_L
ClientSampleId :
11-SG-1

Tgt Ion:105 Resp: 2984

Ion	Ratio	Lower	Upper
105	100		
120	41.2	41.7	62.5#
91	20.5	70.0	105.0#
77	17.0	23.8	35.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043241.D
Acq On : 19 Nov 2025 16:06
Operator : SY/MD
Sample : Q3626-07 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Quant Time: Nov 20 00:06:41 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

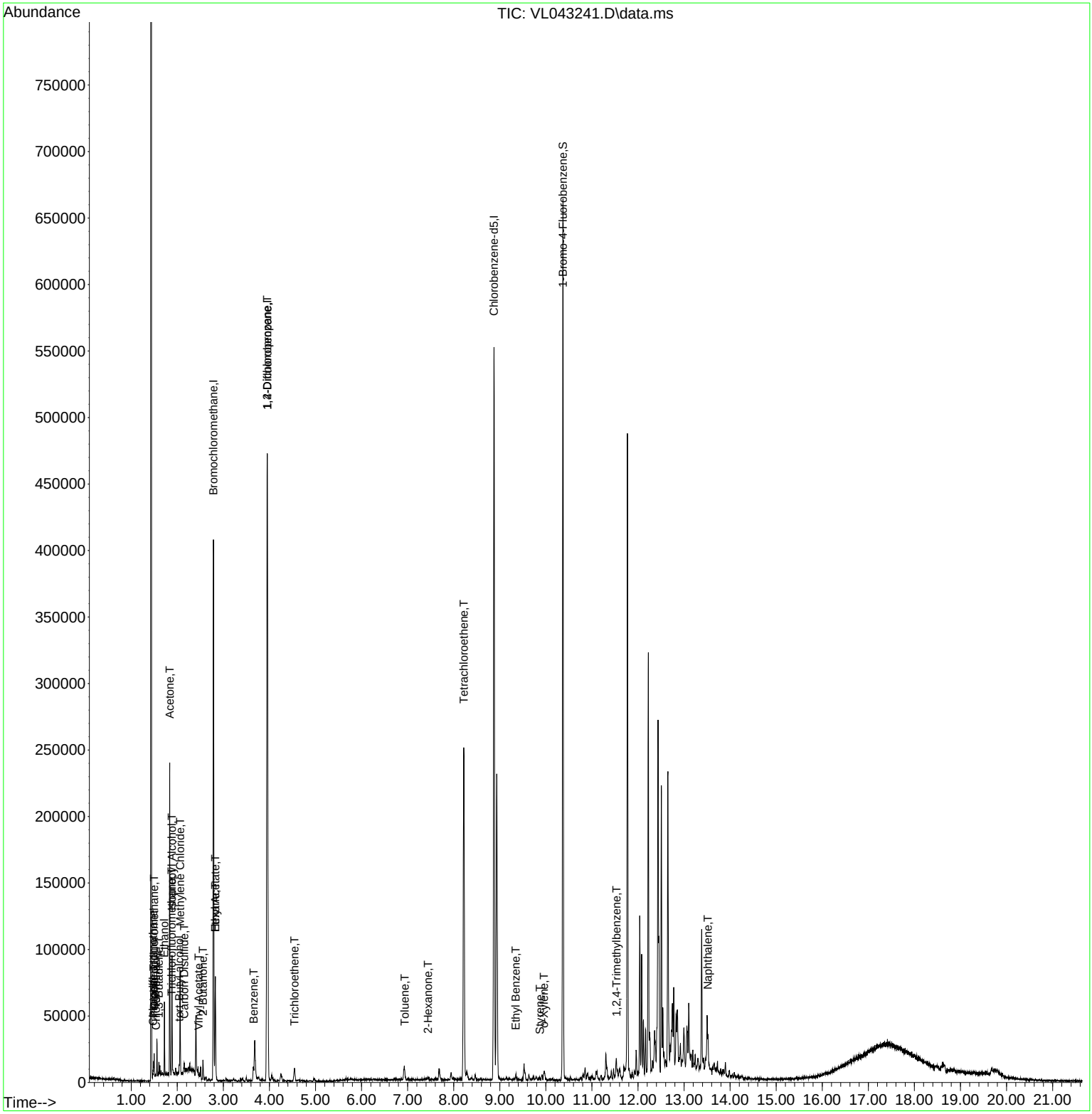
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	103097	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	289304	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	221774	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.371	95	162452	9.993	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	4138	0.285	ppbv		99
3) Chlorodifluoromethane	1.476	51	2988	0.209	ppbv		98
4) Chloromethane	1.535	50	350	0.064	ppbv	#	86
9) Propene	1.489	41	1371	0.226	ppbv	#	1
11) Trichlorofluoromethane	1.878	101	1898	0.135	ppbv		88
13) Ethanol	1.719	45	19199	8.991	ppbv		94
15) Acetone	1.836	43	103554	7.230	ppbv		100
16) 1,3-Butadiene	1.599	39	1377	0.216	ppbv	#	30
17) tert-Butyl alcohol	2.043	59	2769	0.147	ppbv	#	91
19) Isopropyl Alcohol	1.884	45	34326	4.241	ppbv	#	37
20) Methylene Chloride	2.062	84	11672	2.149	ppbv	#	82
23) Vinyl Acetate	2.464	43	564	0.033	ppbv	#	87
25) Ethyl Acetate	2.826	43	12641	0.409	ppbv	#	80
26) Hexane	2.826	57	17106	1.263	ppbv	#	42
27) Carbon Disulfide	2.150	76	3585	0.259	ppbv	#	1
34) 2-Butanone	2.557	43	9027	0.442	ppbv		98
36) Benzene	3.658	78	3352	0.121	ppbv	#	81
38) Trichloroethene	4.542	130	1590	0.147	ppbv	#	76
39) 1,2-Dichloropropane	3.952	63	71940	7.094	ppbv	#	25
51) 2-Hexanone	7.442	43	727	0.033	ppbv	#	88
52) Tetrachloroethene	8.218	164	42186	4.093	ppbv		92
53) Toluene	6.937	91	2402	0.073	ppbv	#	21
58) Ethyl Benzene	9.348	91	2322	0.054	ppbv		93
60) o-Xylene	9.960	91	1690	0.049	ppbv		83
61) Styrene	9.869	104	665	0.044	ppbv	#	59
74) 1,2,4-Trimethylbenzene	11.533	105	3032	0.080	ppbv	#	45
79) Naphthalene	13.517	128	1140	0.034	ppbv	#	73

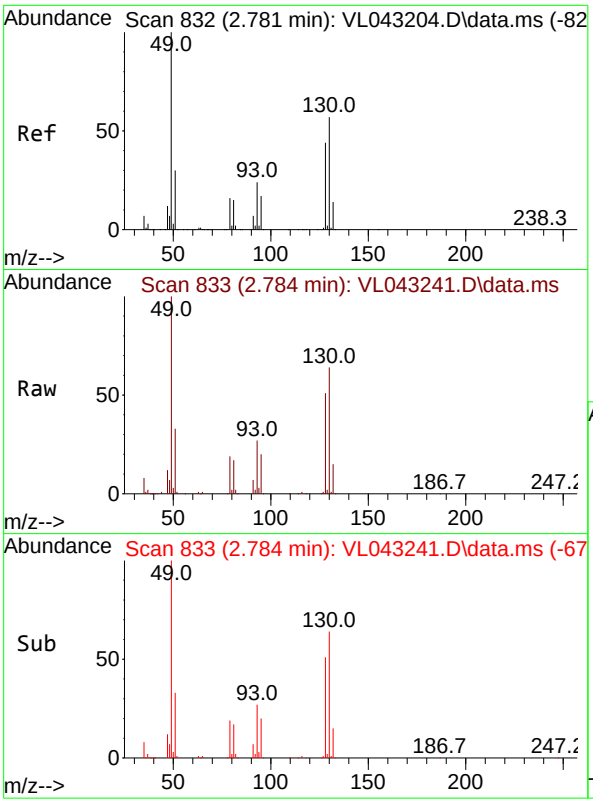
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043241.D
Acq On : 19 Nov 2025 16:06
Operator : SY/MD
Sample : Q3626-07 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Quant Time: Nov 20 00:06:41 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



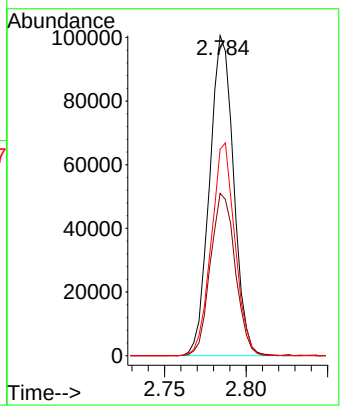


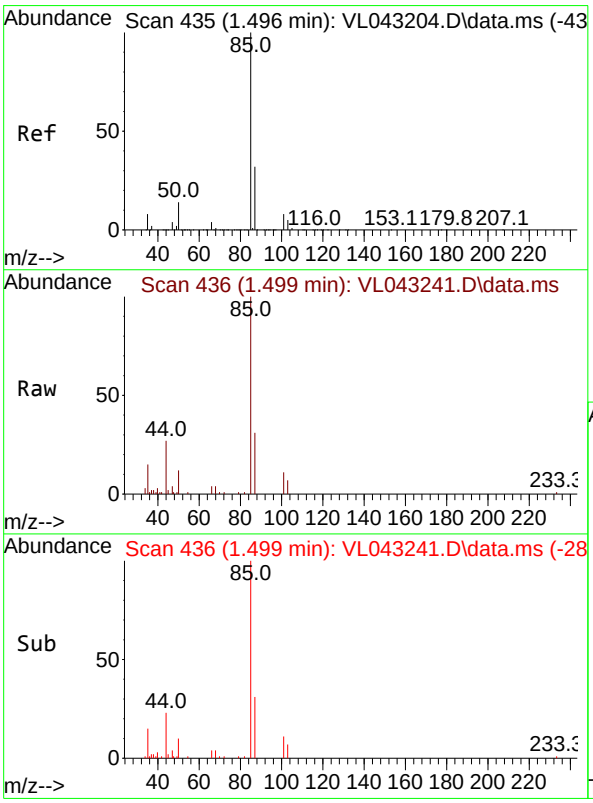
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion: 49 Resp: 103097

Ion	Ratio	Lower	Upper
49	100		
128	52.4	23.0	69.0
130	65.4	29.9	89.7

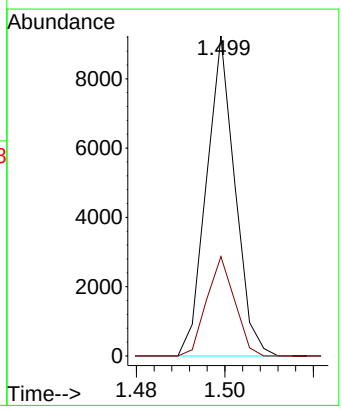


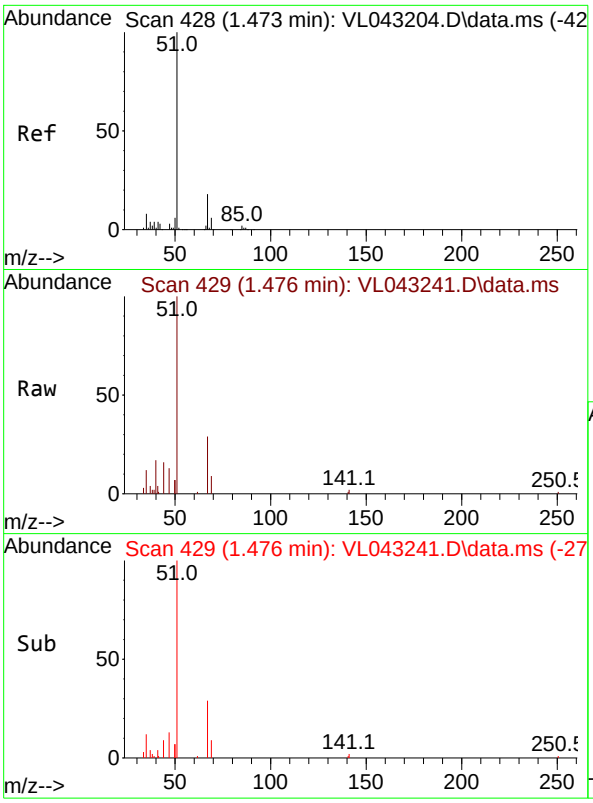


#2
Dichlorodifluoromethane
Concen: 0.285 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 85 Resp: 4138

Ion	Ratio	Lower	Upper
85	100		
87	31.0	25.4	38.2



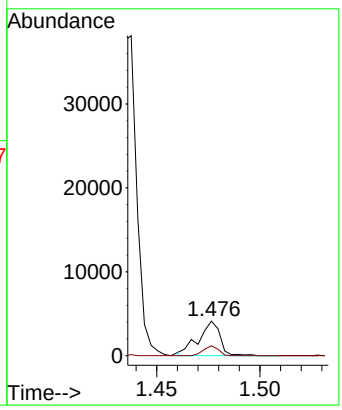


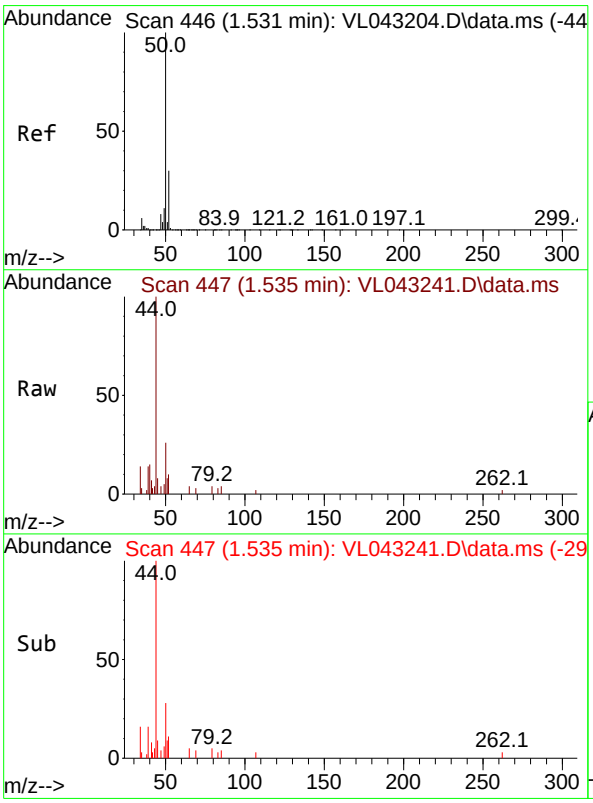
#3
Chlorodifluoromethane
Concen: 0.209 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion: 51 Resp: 2988

Ion	Ratio	Lower	Upper
51	100		
67	19.5	14.9	22.3

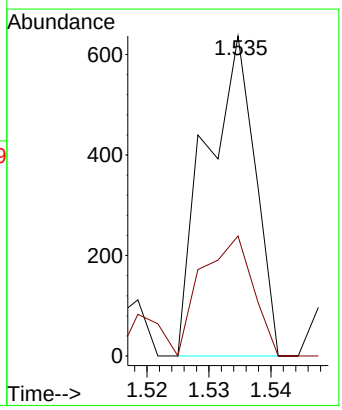


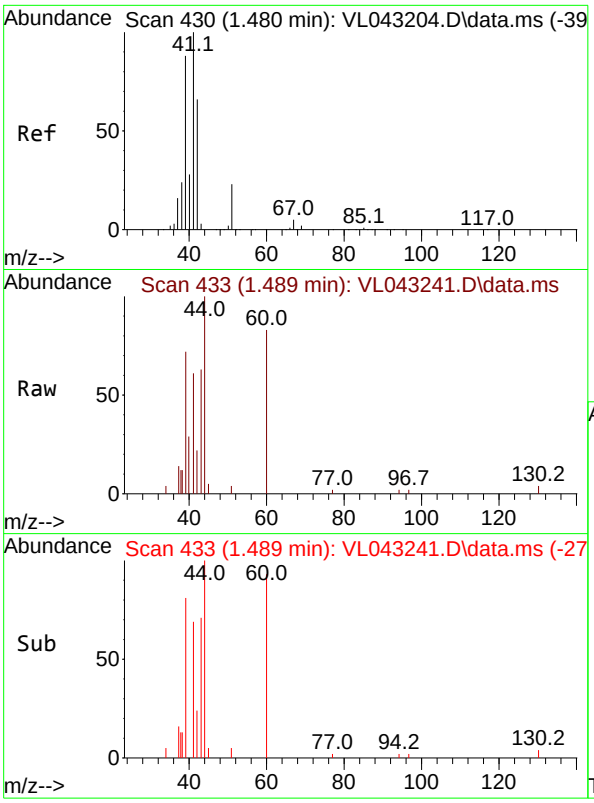


#4
Chloromethane
Concen: 0.064 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 50 Resp: 350

Ion	Ratio	Lower	Upper
50	100		
52	37.5	24.1	36.1#



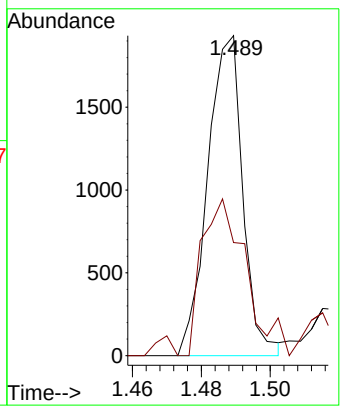


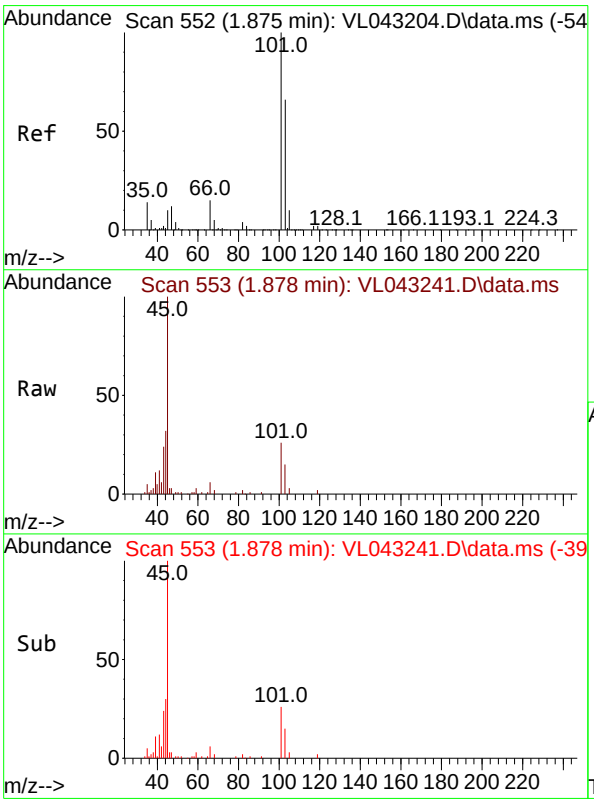
#9
Propene
Concen: 0.226 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion: 41 Resp: 1371

Ion	Ratio	Lower	Upper
41	100		
42	64.2	3.7	5.5#

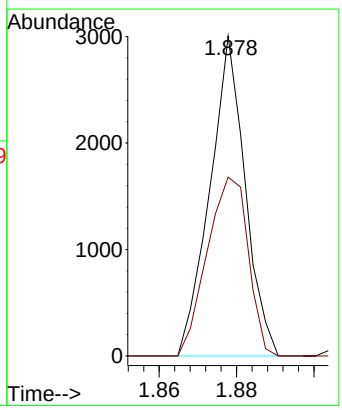


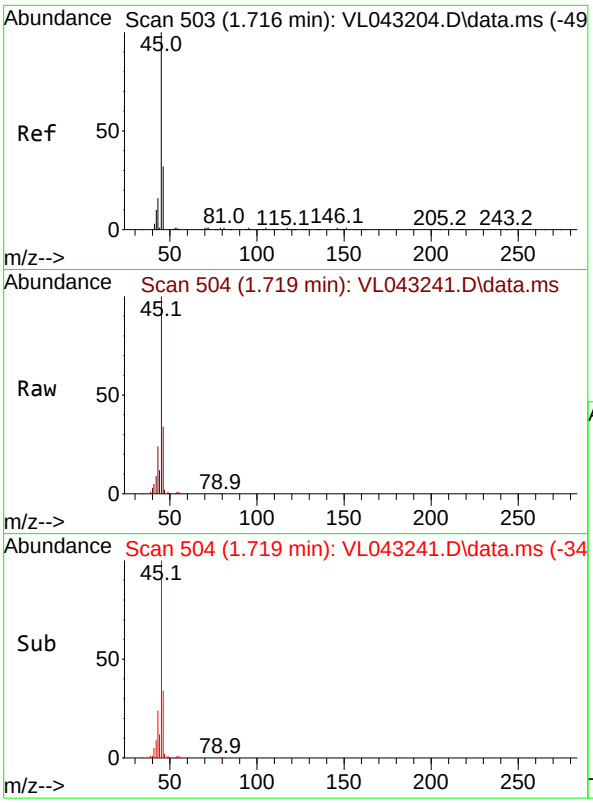


#11
Trichlorofluoromethane
Concen: 0.135 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion:101 Resp: 1898

Ion	Ratio	Lower	Upper
101	100		
103	55.9	52.6	79.0



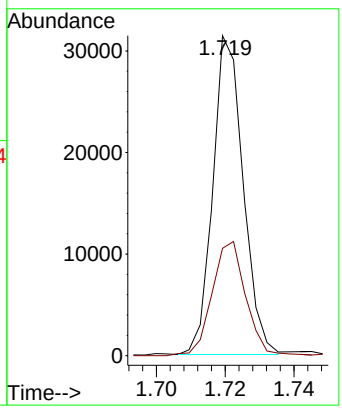


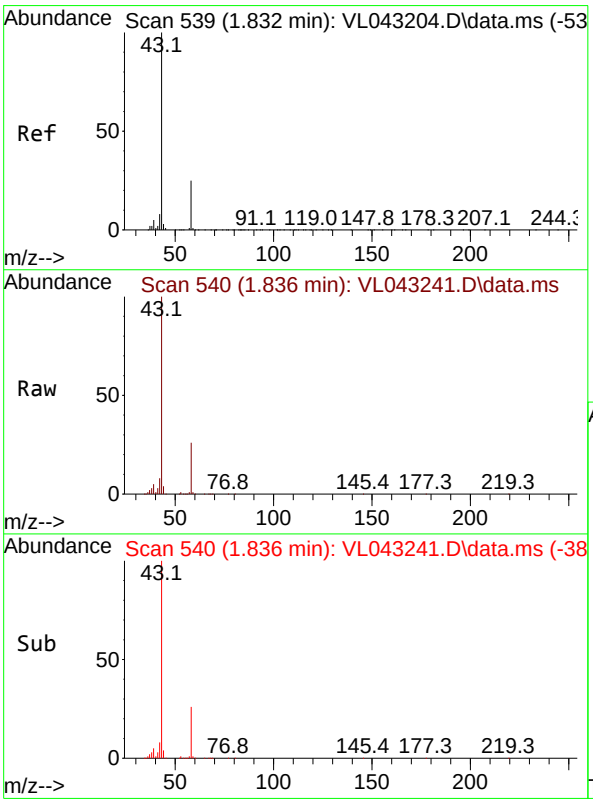
#13
Ethanol
Concen: 8.991 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion: 45 Resp: 19199

Ion	Ratio	Lower	Upper
45	100		
46	41.0	15.0	59.8

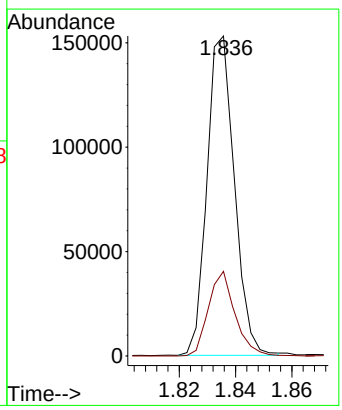


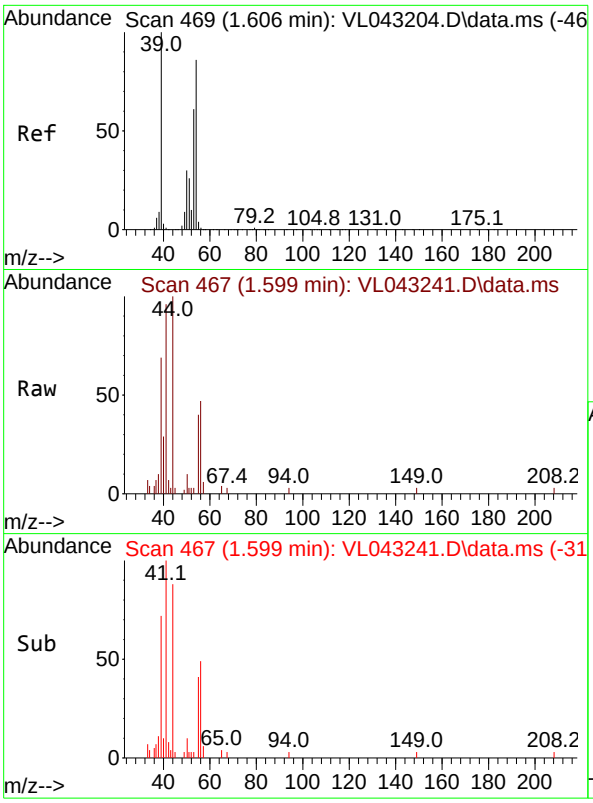


#15
Acetone
Concen: 7.230 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 43 Resp: 103554

Ion	Ratio	Lower	Upper
43	100		
58	25.7	20.7	31.1



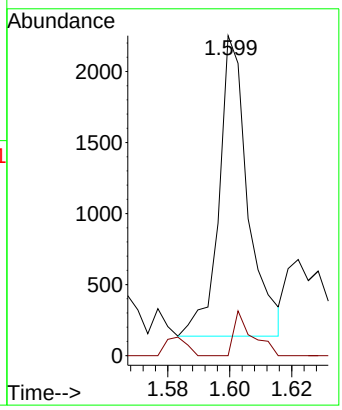


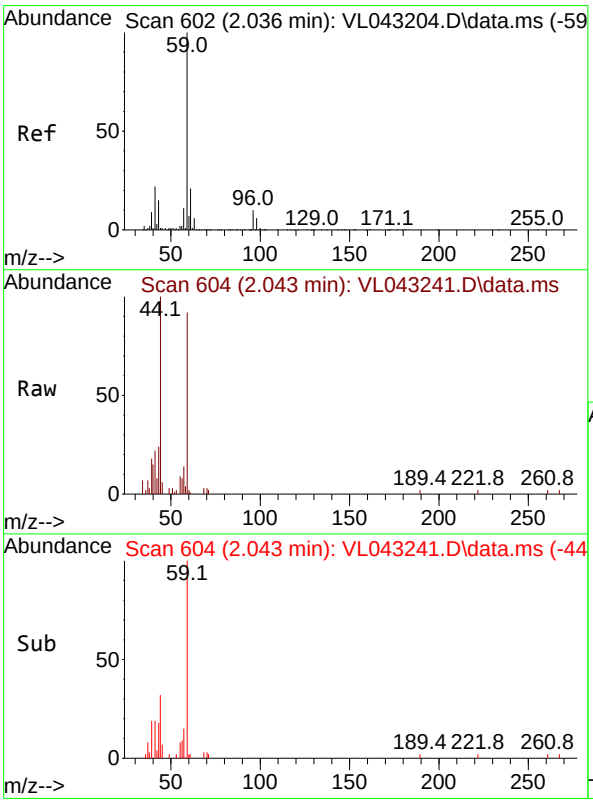
#16
1,3-Butadiene
Concen: 0.216 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion: 39 Resp: 1377

Ion	Ratio	Lower	Upper
39	100		
54	14.8	59.4	89.2#

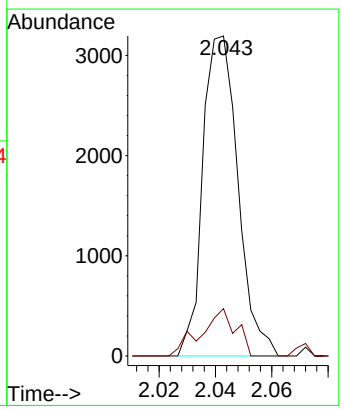


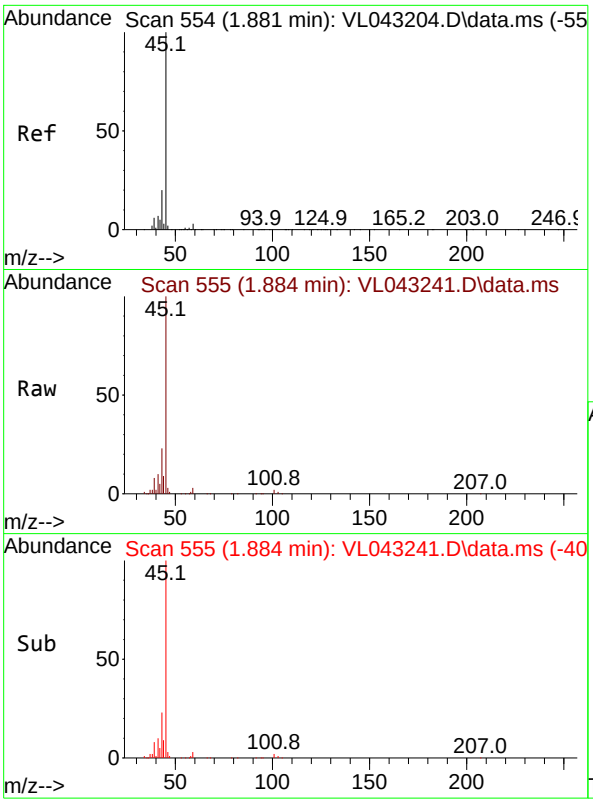


#17
tert-Butyl alcohol
Concen: 0.147 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.007 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 59 Resp: 2769

Ion	Ratio	Lower	Upper
59	100		
57	14.7	9.0	13.4#



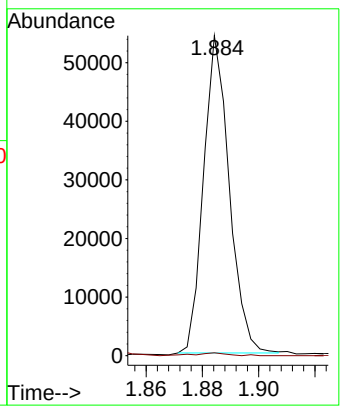


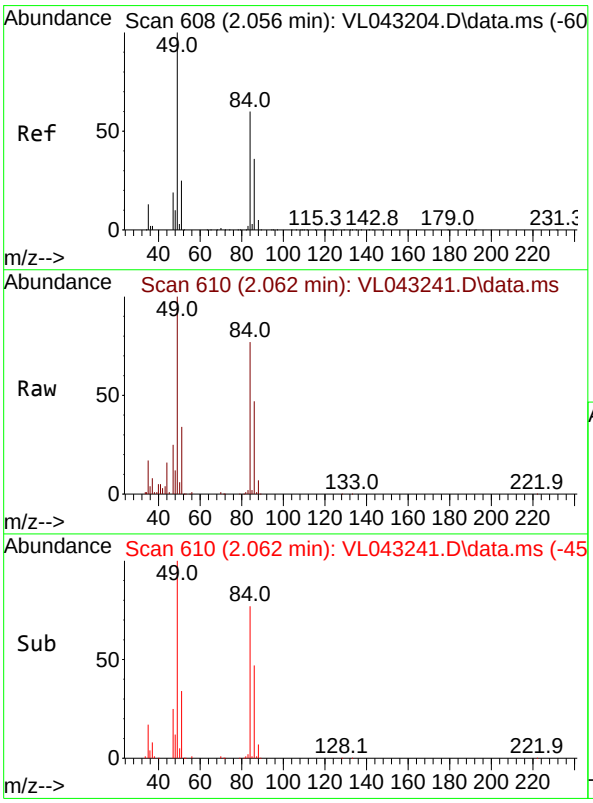
#19
Isopropyl Alcohol
Concen: 4.241 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion: 45 Resp: 34326

Ion	Ratio	Lower	Upper
45	100		
58	77.7	31.3	46.9#

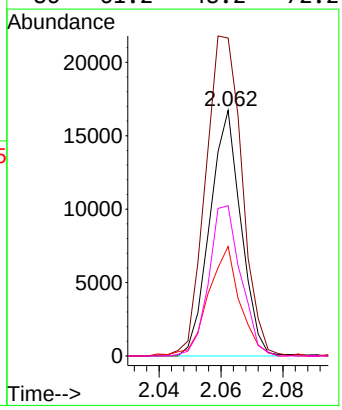


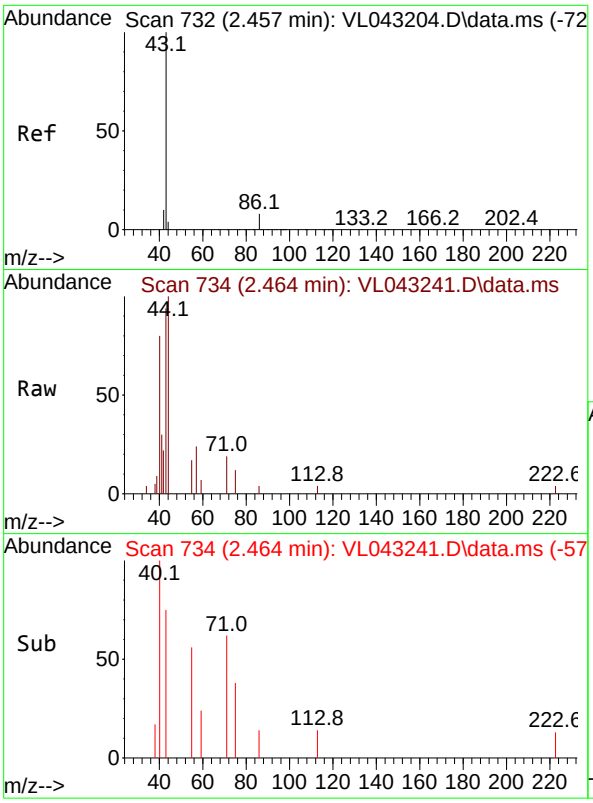


#20
Methylene Chloride
Concen: 2.149 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 84 Resp: 11672

Ion	Ratio	Lower	Upper
84	100		
49	128.5	132.9	199.3#
51	44.6	34.8	52.2
86	61.2	48.2	72.2



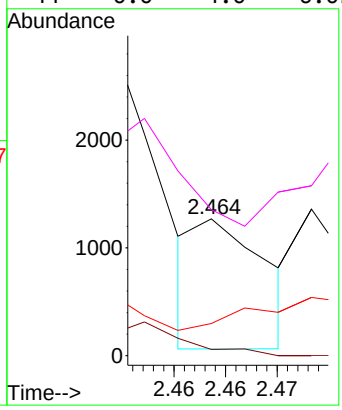


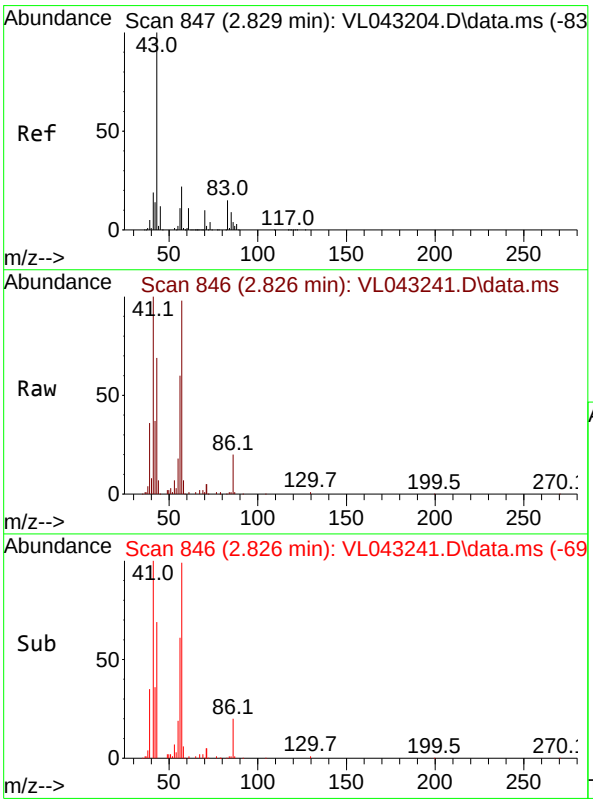
#23
Vinyl Acetate
Concen: 0.033 ppbv
RT: 2.464 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion: 43 Resp: 564

Ion	Ratio	Lower	Upper
43	100		
86	12.7	6.2	9.2#
42	14.3	8.0	12.0#
44	0.0	4.0	6.0#

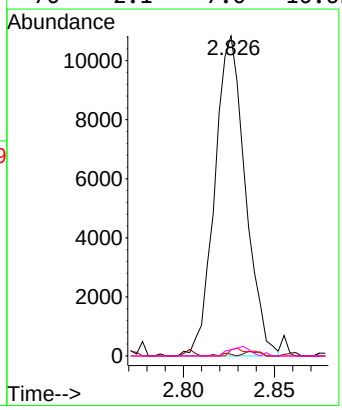


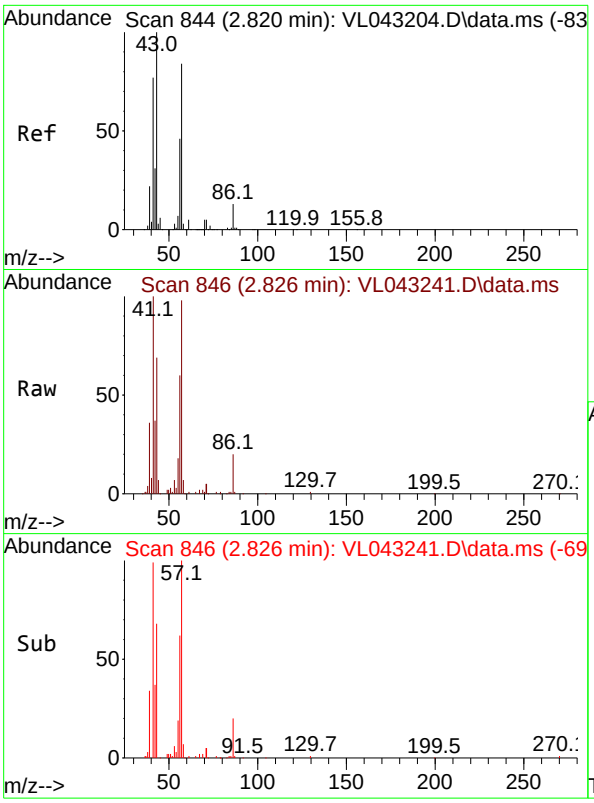


#25
Ethyl Acetate
Concen: 0.409 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 43 Resp: 12641

Ion	Ratio	Lower	Upper
43	100		
45	1.9	8.1	12.1#
61	1.6	7.0	10.4#
70	2.1	7.0	10.6#



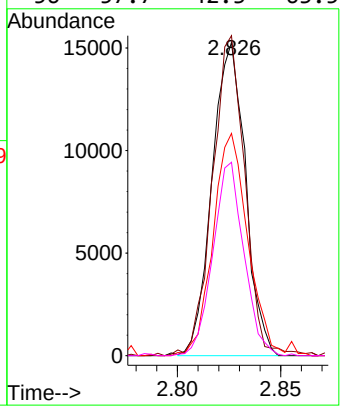


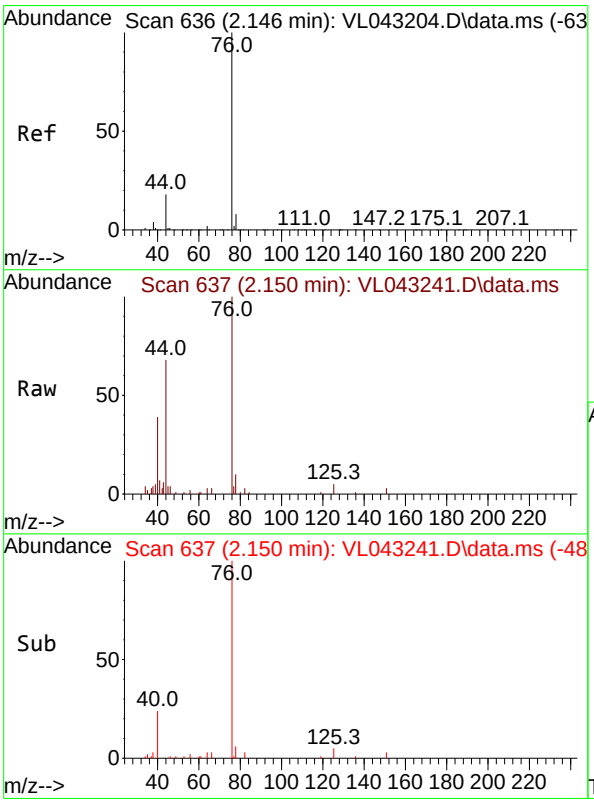
#26
Hexane
Concen: 1.263 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.007 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion: 57 Resp: 17106

Ion	Ratio	Lower	Upper
57	100		
41	100.1	74.6	111.8
43	75.2	179.0	268.4#
56	57.7	42.3	63.5

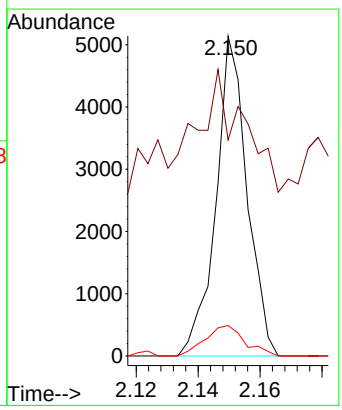


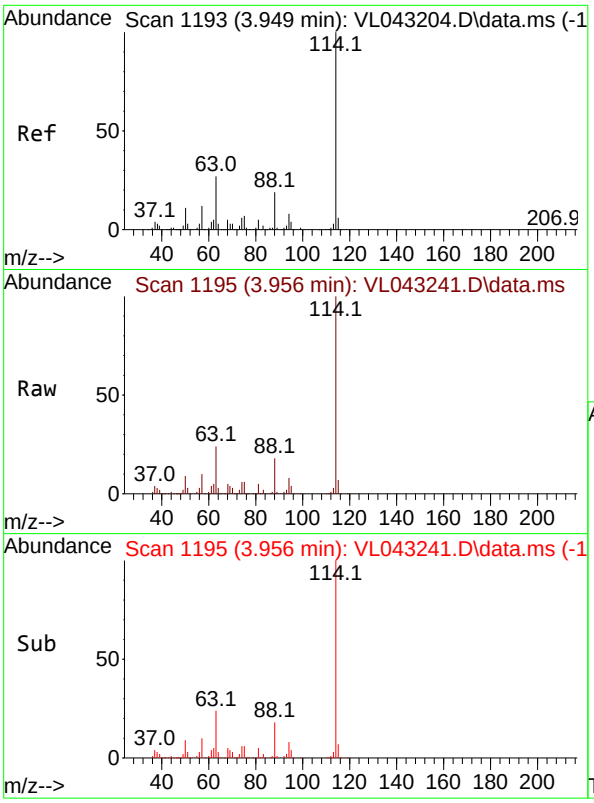


#27
Carbon Disulfide
Concen: 0.259 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 76 Resp: 3585

Ion	Ratio	Lower	Upper
76	100		
44	132.4	16.1	24.1#
78	12.9	9.6	14.4



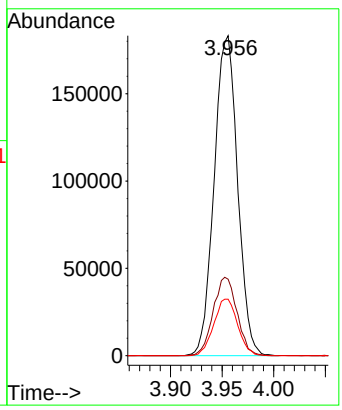


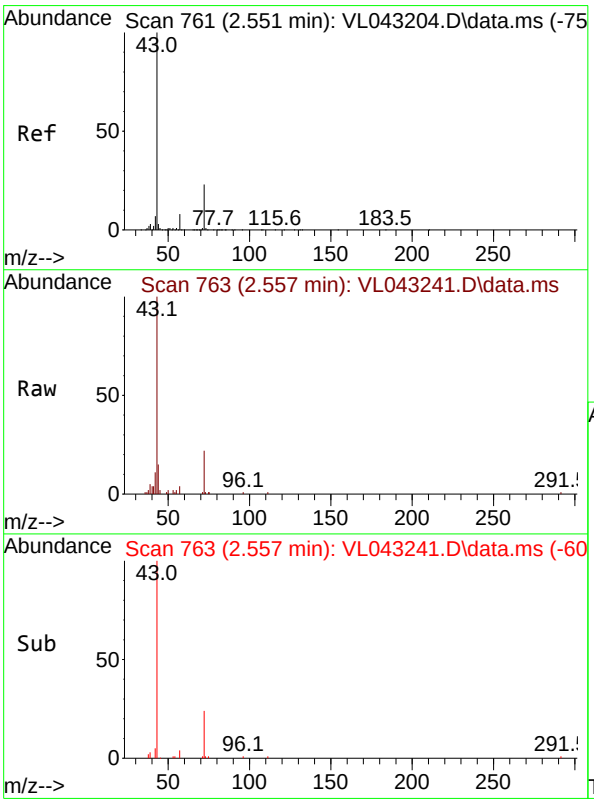
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion:114 Resp: 289304

Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.0	31.6
88	18.0	14.9	22.3

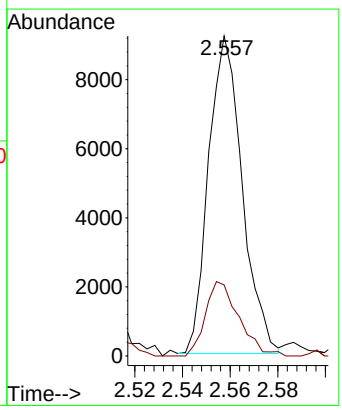


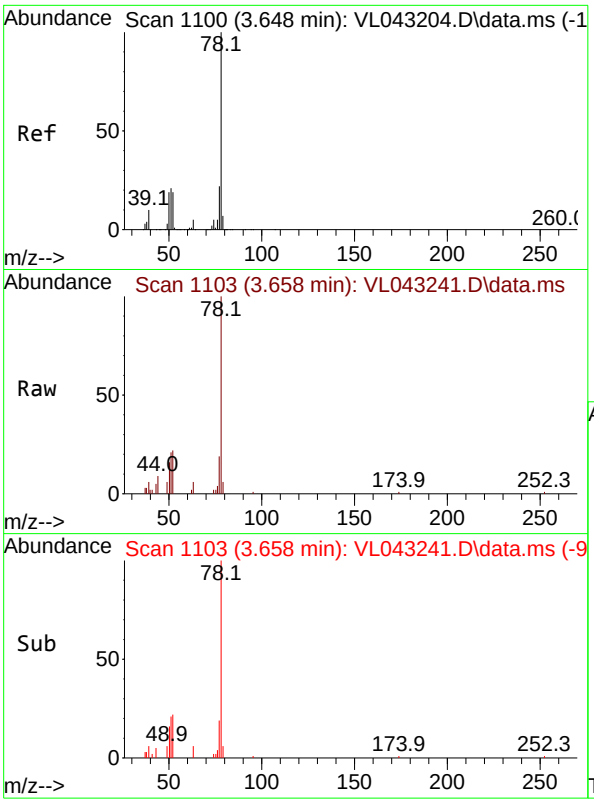


#34
2-Butanone
Concen: 0.442 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 43 Resp: 9027

Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.1	27.1



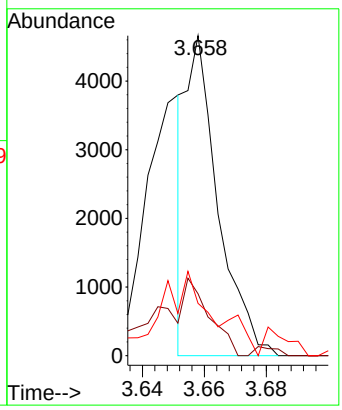


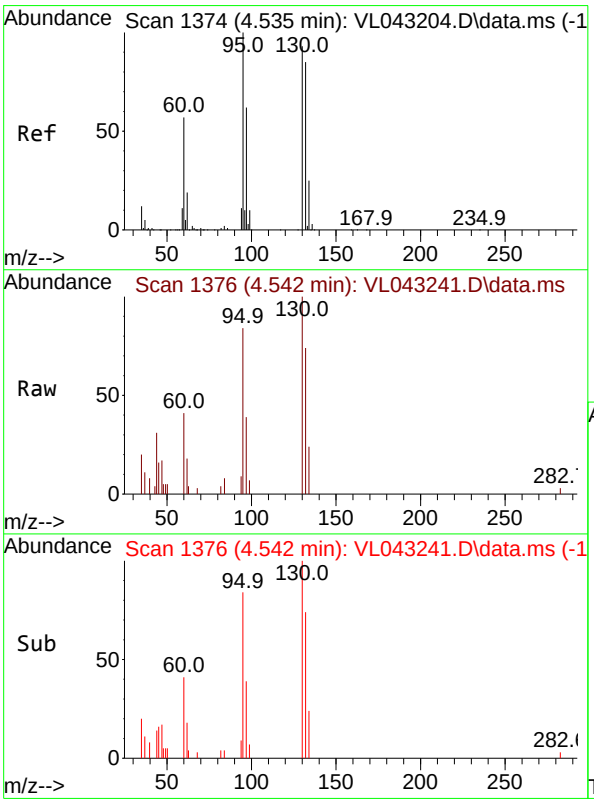
#36
Benzene
Concen: 0.121 ppbv
RT: 3.658 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion: 78 Resp: 3352

Ion	Ratio	Lower	Upper
78	100		
77	17.2	17.5	26.3#
50	6.2	15.5	23.3#

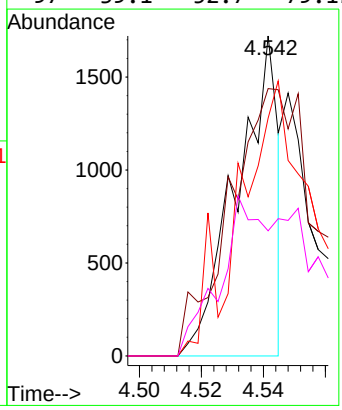


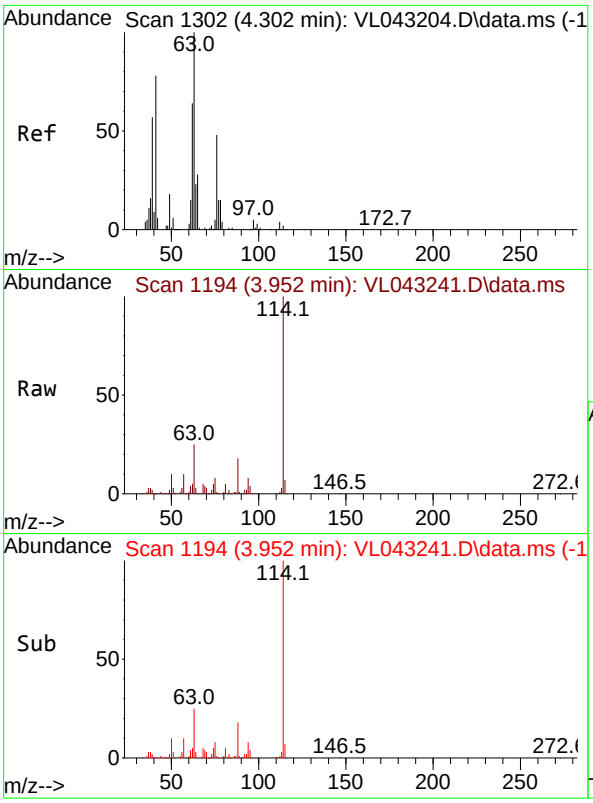


#38
Trichloroethene
Concen: 0.147 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion:130 Resp: 1590

Ion	Ratio	Lower	Upper
130	100		
95	83.6	85.7	128.5#
132	74.3	73.4	110.0
97	39.1	52.7	79.1#



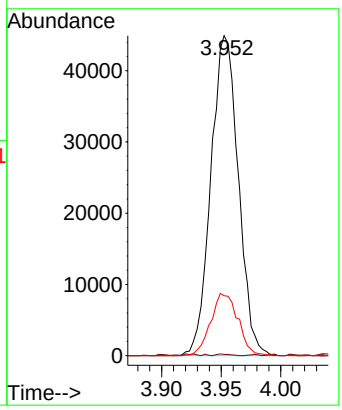


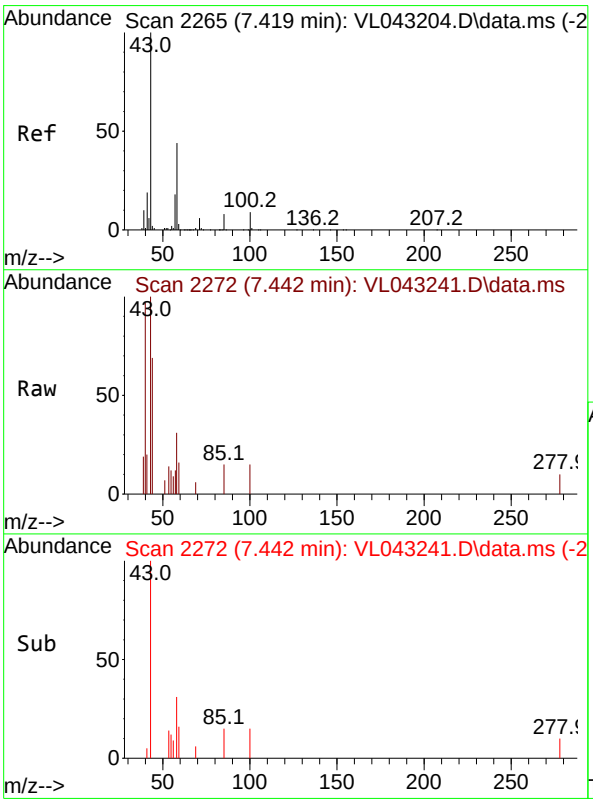
#39
1,2-Dichloropropane
Concen: 7.094 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.350 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion: 63 Resp: 71940

Ion	Ratio	Lower	Upper
63	100		
41	0.3	62.6	93.8#
62	18.8	51.0	76.6#

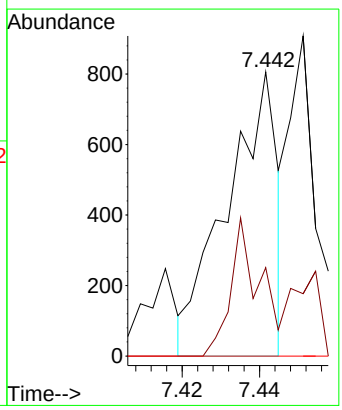


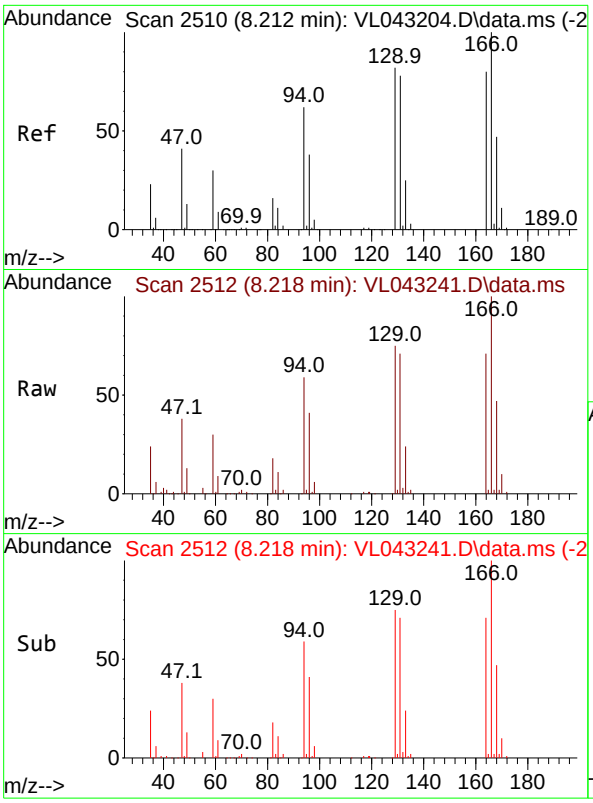


#51
2-Hexanone
Concen: 0.033 ppbv
RT: 7.442 min Scan# 2272
Delta R.T. 0.023 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 43 Resp: 727

Ion	Ratio	Lower	Upper
43	100		
58	56.1	38.4	57.6
98	0.0	0.0	0.0



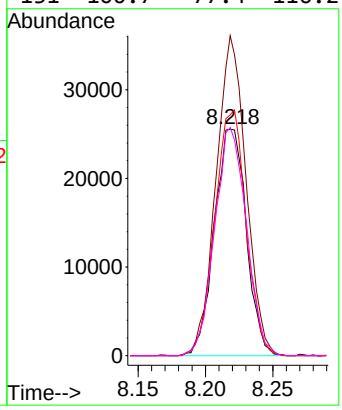


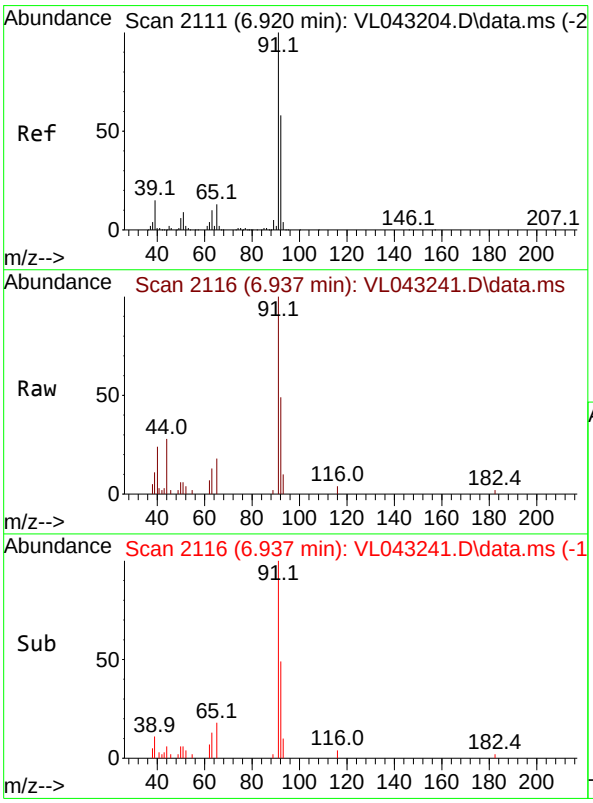
#52
Tetrachloroethene
Concen: 4.093 ppbv
RT: 8.218 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion:164 Resp: 42186

Ion	Ratio	Lower	Upper
164	100		
166	141.2	99.4	149.2
129	106.3	81.8	122.8
131	100.7	77.4	116.2

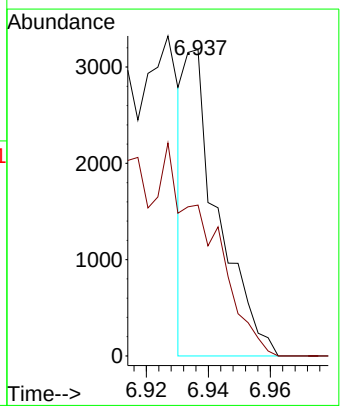


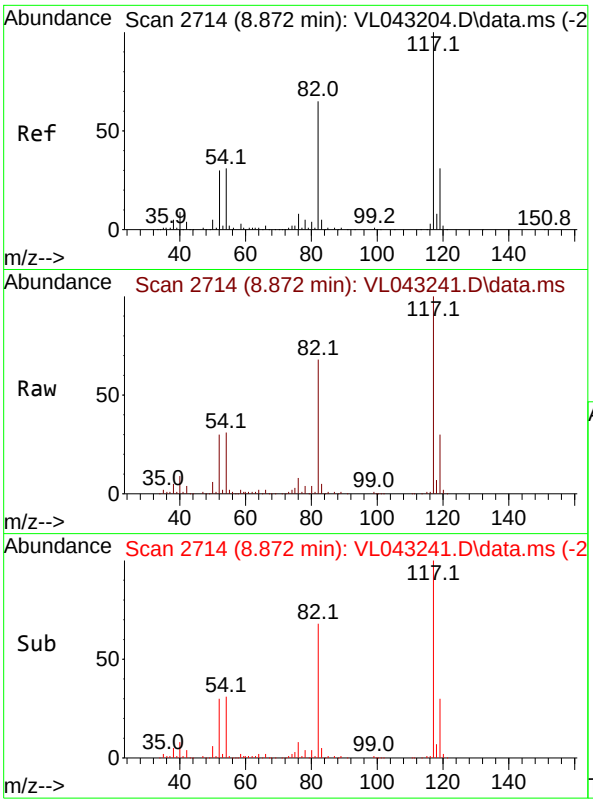


#53
Toluene
Concen: 0.073 ppbv
RT: 6.937 min Scan# 2116
Delta R.T. 0.016 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 91 Resp: 2402

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.0#



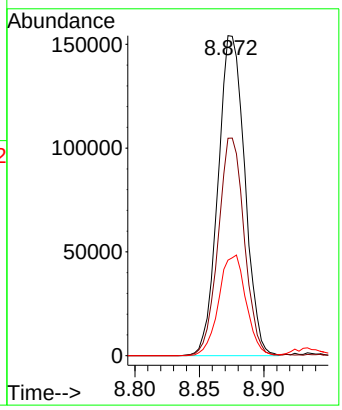


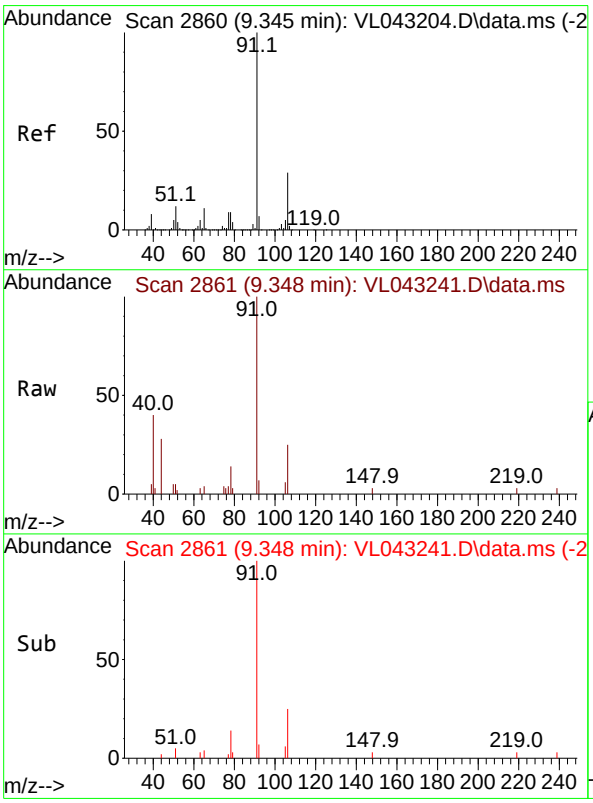
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion:117 Resp: 221774

Ion	Ratio	Lower	Upper
117	100		
82	66.9	56.1	84.1
119	32.2	25.0	37.6

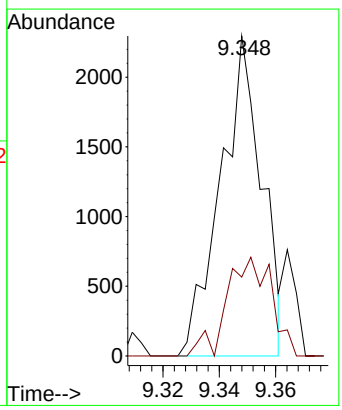


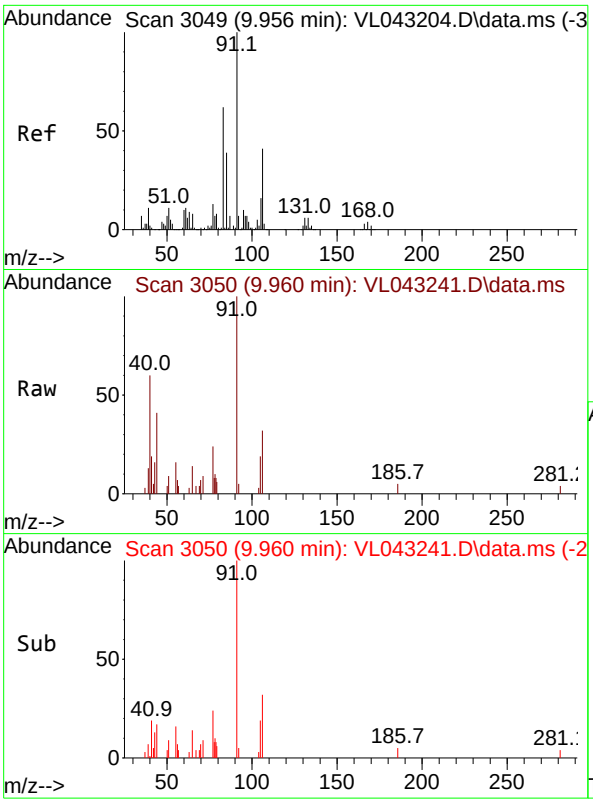


#58
Ethyl Benzene
Concen: 0.054 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion: 91 Resp: 2322

Ion	Ratio	Lower	Upper
91	100		
106	24.7	22.8	34.2



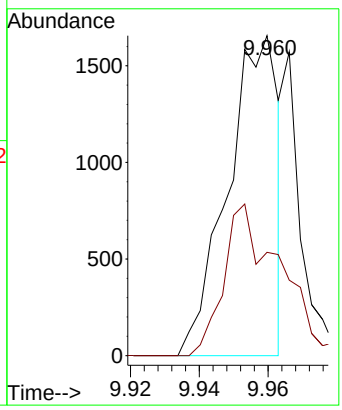


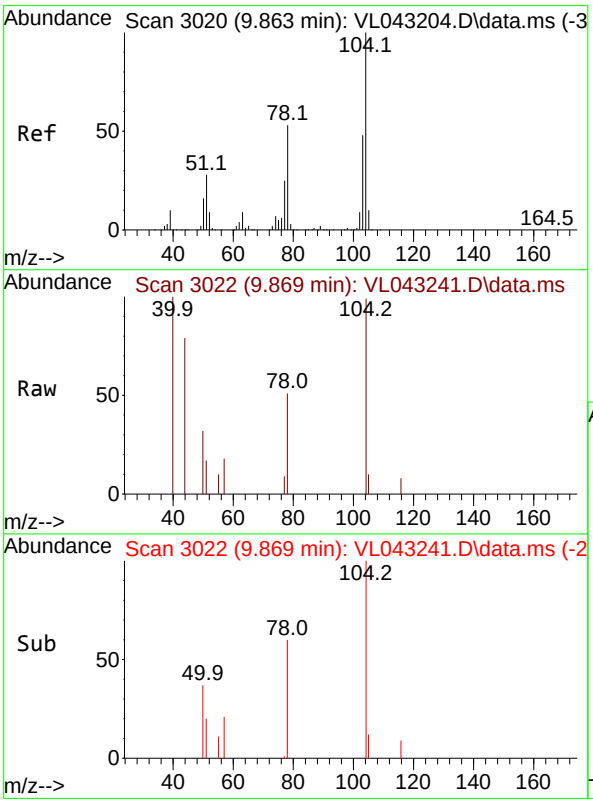
#60
o-Xylene
Concen: 0.049 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion: 91 Resp: 1690

Ion	Ratio	Lower	Upper
91	100		
106	52.7	20.9	62.8

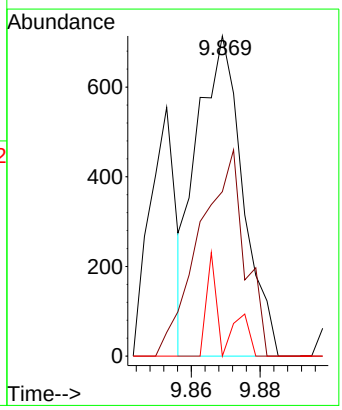


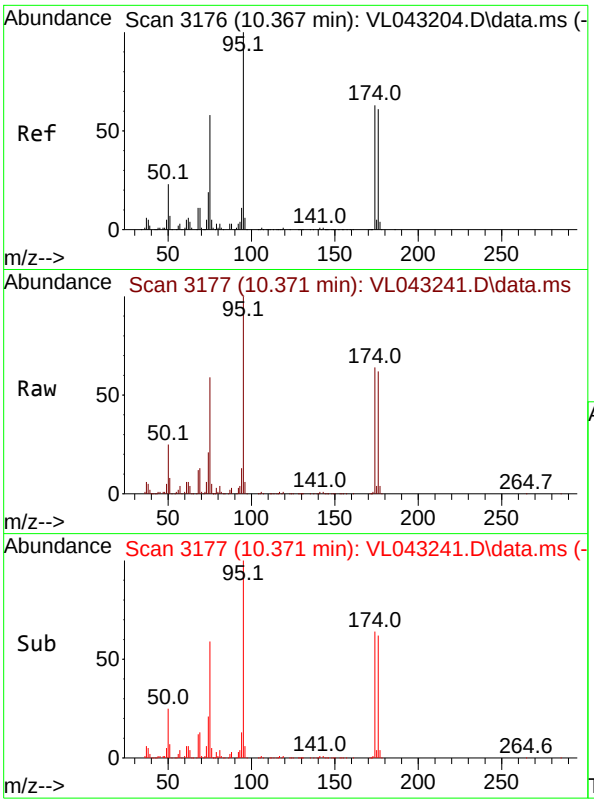


#61
Styrene
Concen: 0.044 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.007 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion:104 Resp: 665

Ion	Ratio	Lower	Upper
104	100		
78	63.2	42.1	63.1#
103	0.0	37.2	55.8#



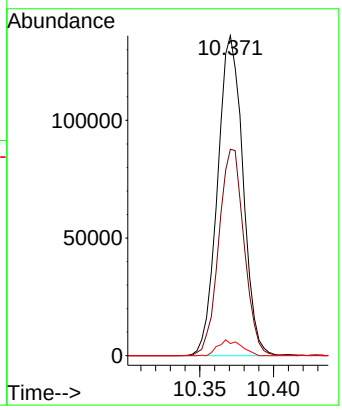


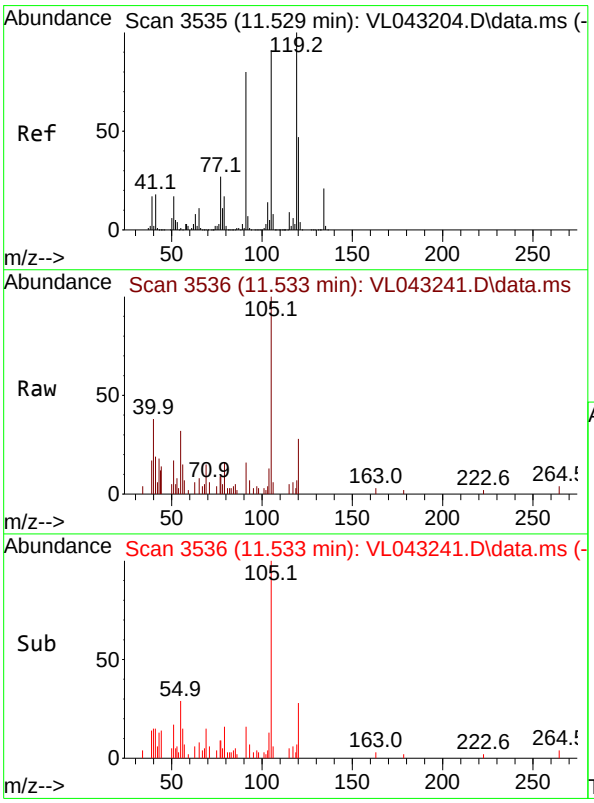
#68
1-Bromo-4-Fluorobenzene
Concen: 9.993 ppbv
RT: 10.371 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion: 95 Resp: 162452

Ion	Ratio	Lower	Upper
95	100		
174	64.8	50.2	75.2
175	4.6	4.1	6.1

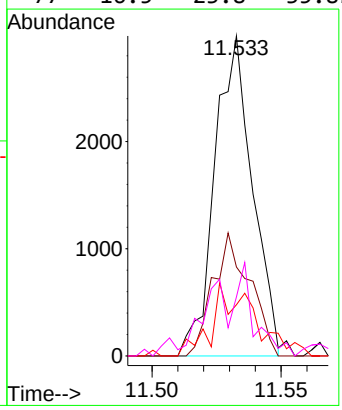


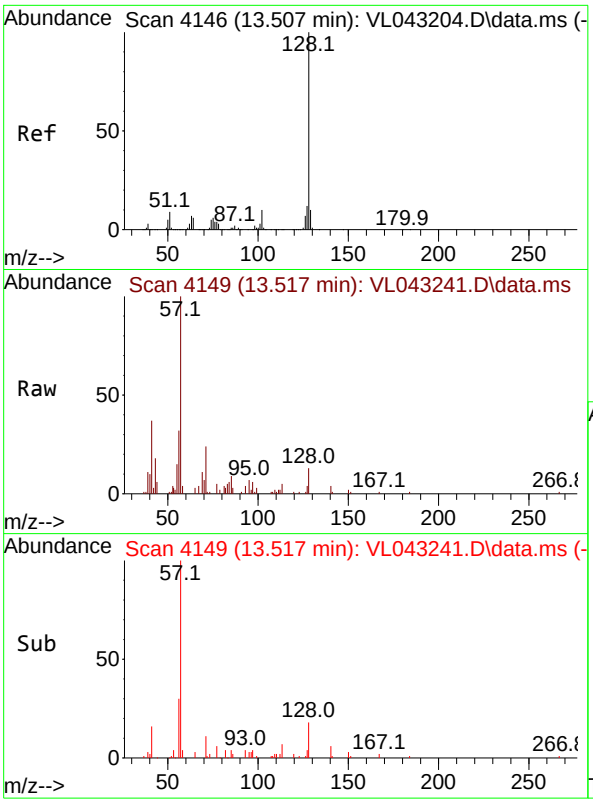


#74
1,2,4-Trimethylbenzene
Concen: 0.080 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Tgt Ion:105 Resp: 3032

Ion	Ratio	Lower	Upper
105	100		
120	27.8	41.7	62.5#
91	16.0	70.0	105.0#
77	16.5	23.8	35.8#



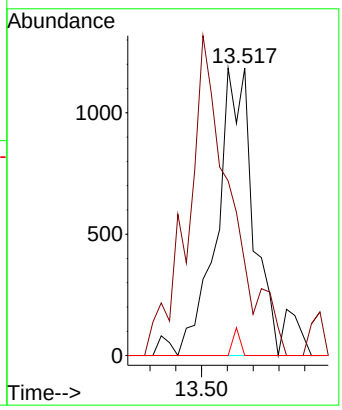


#79
Naphthalene
Concen: 0.034 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL043241.D
Acq: 19 Nov 2025 16:06

Instrument :
MSVOA_L
ClientSampleId :
12-SG-1

Tgt Ion:128 Resp: 1140

Ion	Ratio	Lower	Upper
128	100		
127	22.4	9.9	14.9#
129	0.0	8.4	12.6#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043242.D
Acq On : 19 Nov 2025 16:39
Operator : SY/MD
Sample : Q3626-08 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Quant Time: Nov 20 00:07:09 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

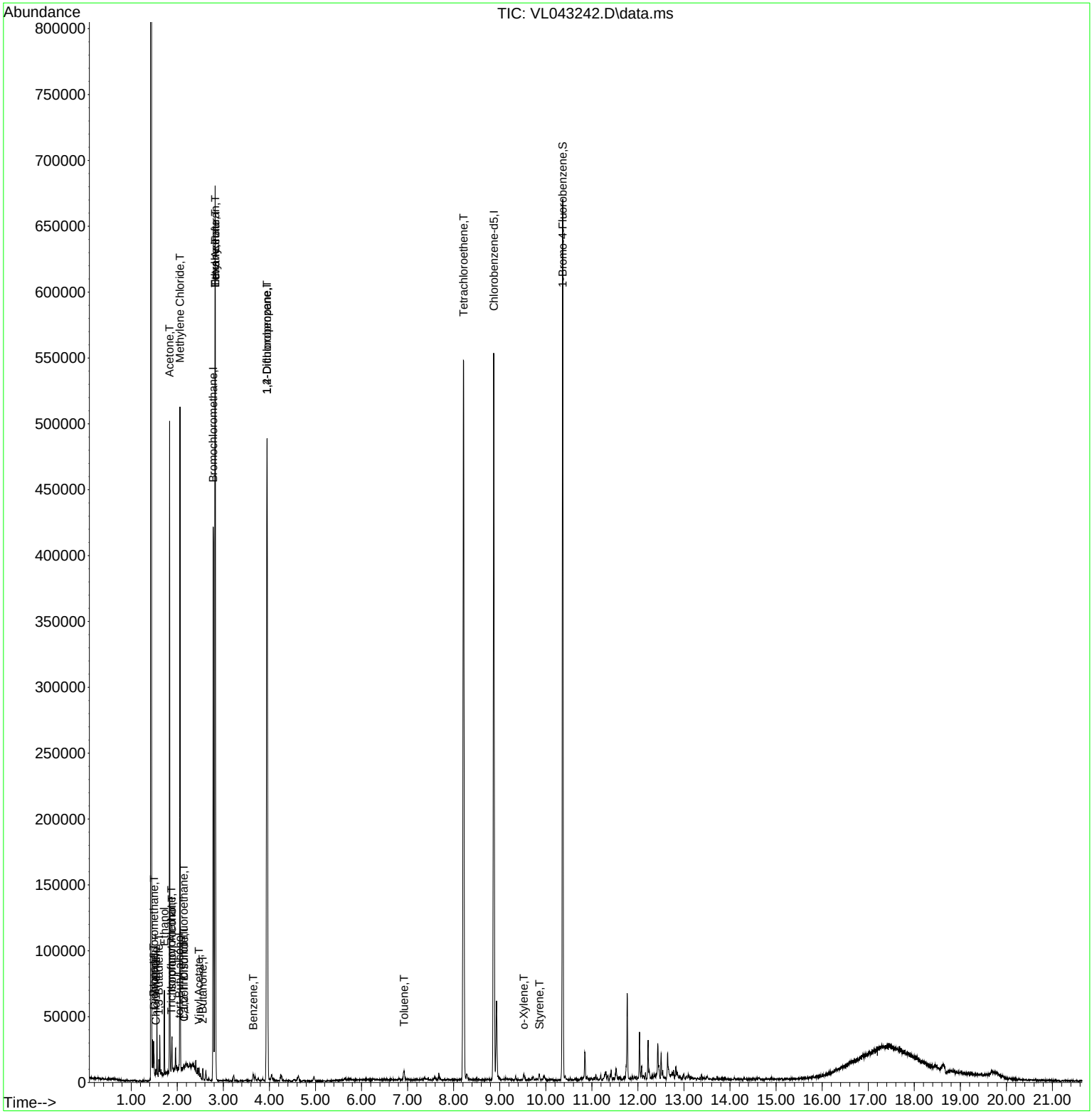
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.780	49	105972	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	291718	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	225662	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	163410	9.879	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	4114	0.275	ppbv		90
4) Chloromethane	1.531	50	1064	0.190	ppbv	#	30
9) Propene	1.486	41	2573	0.412	ppbv	#	1
11) Trichlorofluoromethane	1.874	101	1791	0.124	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.140	101	427	0.038	ppbv		86
13) Ethanol	1.719	45	21091	9.609	ppbv		98
15) Acetone	1.832	43	203704	13.836	ppbv		98
16) 1,3-Butadiene	1.599	39	1671	0.255	ppbv	#	22
17) tert-Butyl alcohol	2.042	59	1619	0.084	ppbv	#	87
19) Isopropyl Alcohol	1.884	45	9293	1.117	ppbv	#	1
20) Methylene Chloride	2.059	84	72858	17.373	ppbv		94
23) Vinyl Acetate	2.470	43	1750	0.098	ppbv	#	67
25) Ethyl Acetate	2.823	43	110568	3.482	ppbv	#	77
26) Hexane	2.823	57	164266	11.799	ppbv	#	41
27) Carbon Disulfide	2.146	76	825	0.058	ppbv	#	61
34) 2-Butanone	2.554	43	5323	0.258	ppbv		93
36) Benzene	3.648	78	3190	0.114	ppbv	#	94
39) 1,2-Dichloropropane	3.949	63	72355	7.076	ppbv	#	24
41) Tetrahydrofuran	2.823	42	57567	5.062	ppbv	#	52
52) Tetrachloroethene	8.215	164	96249	9.262	ppbv		98
53) Toluene	6.923	91	2201	0.067	ppbv	#	1
60) o-Xylene	9.522	91	2308	0.066	ppbv		73
61) Styrene	9.862	104	954	0.063	ppbv	#	84

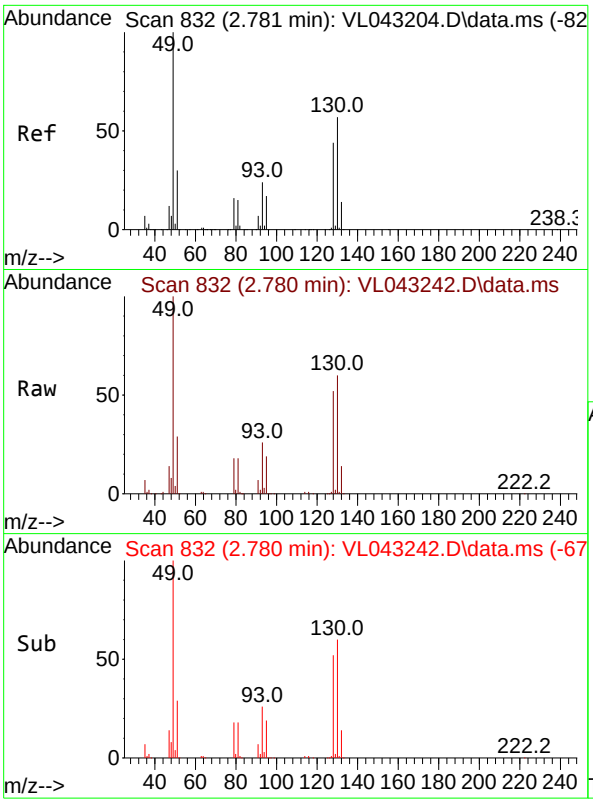
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043242.D
Acq On : 19 Nov 2025 16:39
Operator : SY/MD
Sample : Q3626-08 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Quant Time: Nov 20 00:07:09 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



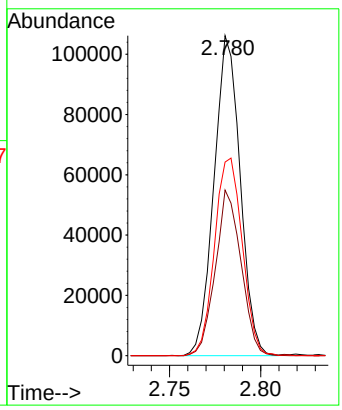


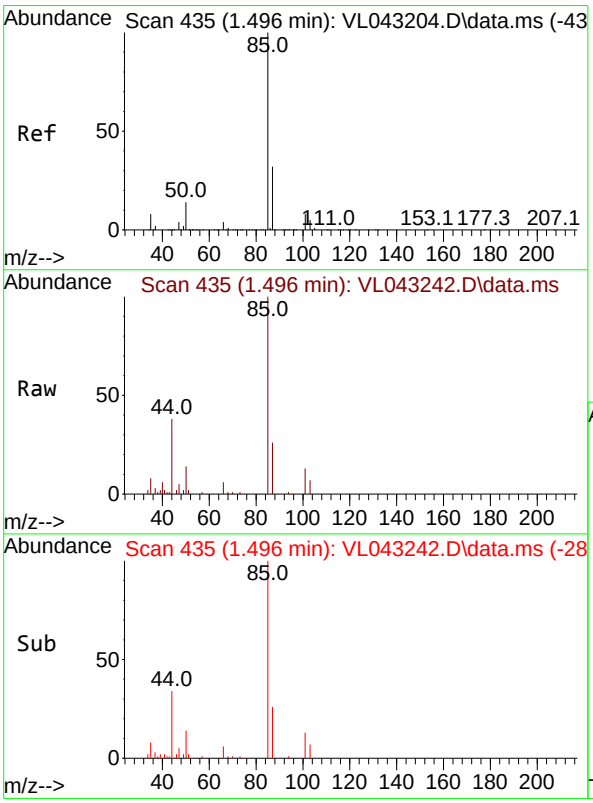
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.001 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion: 49 Resp: 105972

Ion	Ratio	Lower	Upper
49	100		
128	50.7	23.0	69.0
130	65.5	29.9	89.7

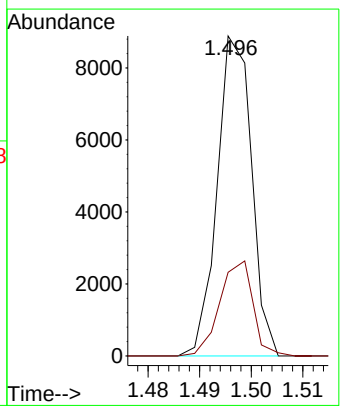


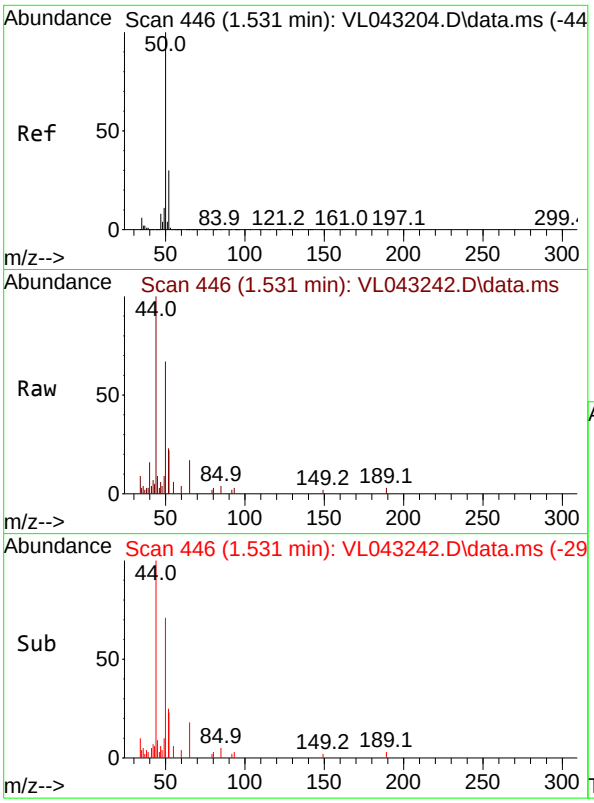


#2
Dichlorodifluoromethane
Concen: 0.275 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 85 Resp: 4114

Ion	Ratio	Lower	Upper
85	100		
87	26.2	25.4	38.2



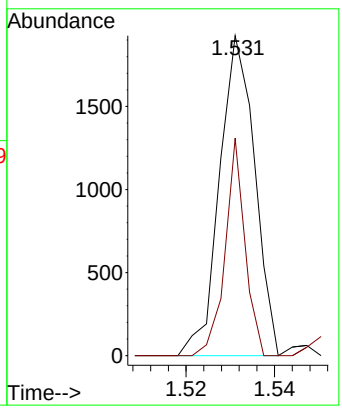


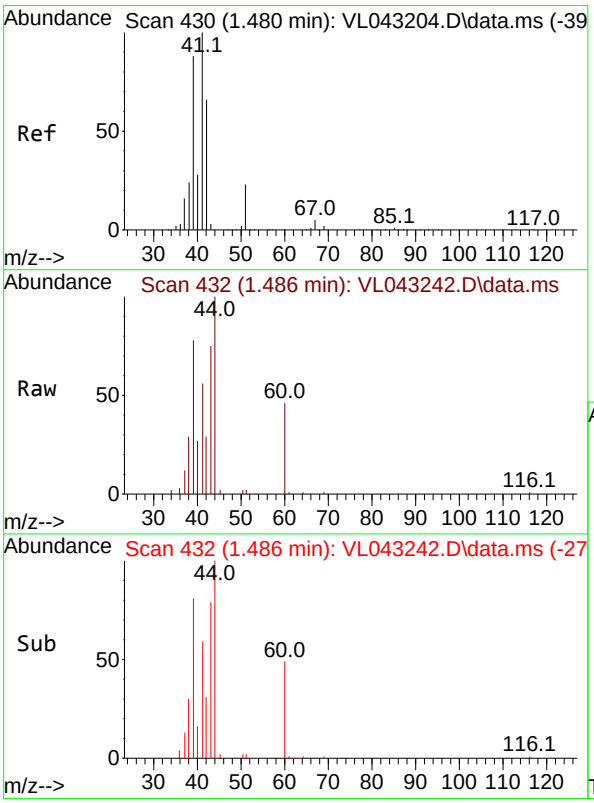
#4
Chloromethane
Concen: 0.190 ppbv
RT: 1.531 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion: 50 Resp: 1064

Ion	Ratio	Lower	Upper
50	100		
52	68.0	24.1	36.1#

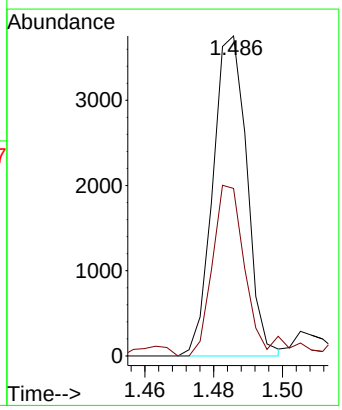


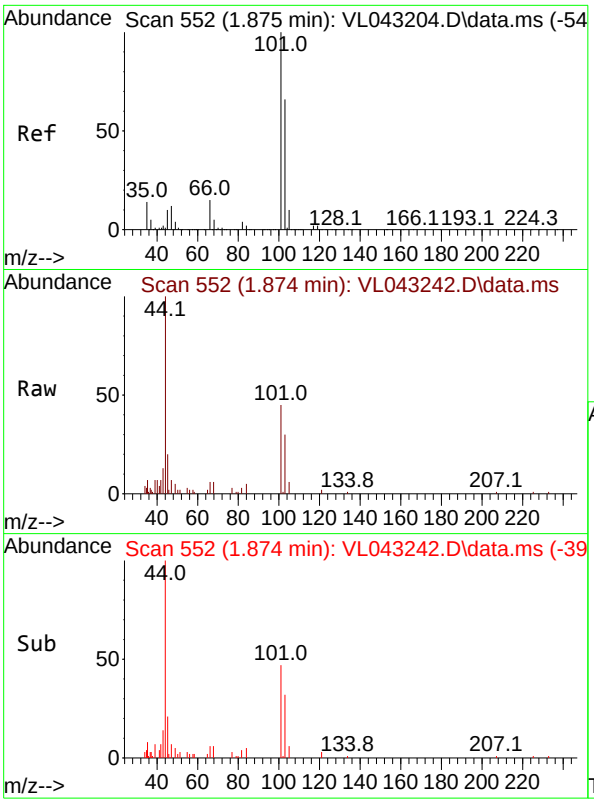


#9
Propene
Concen: 0.412 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 41 Resp: 2573

Ion	Ratio	Lower	Upper
41	100		
42	57.6	3.7	5.5#



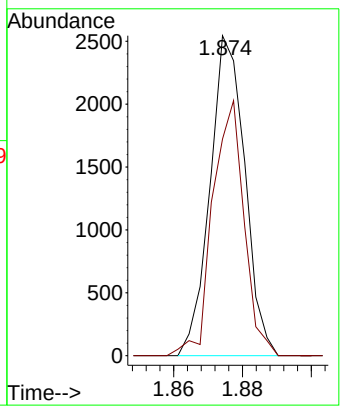


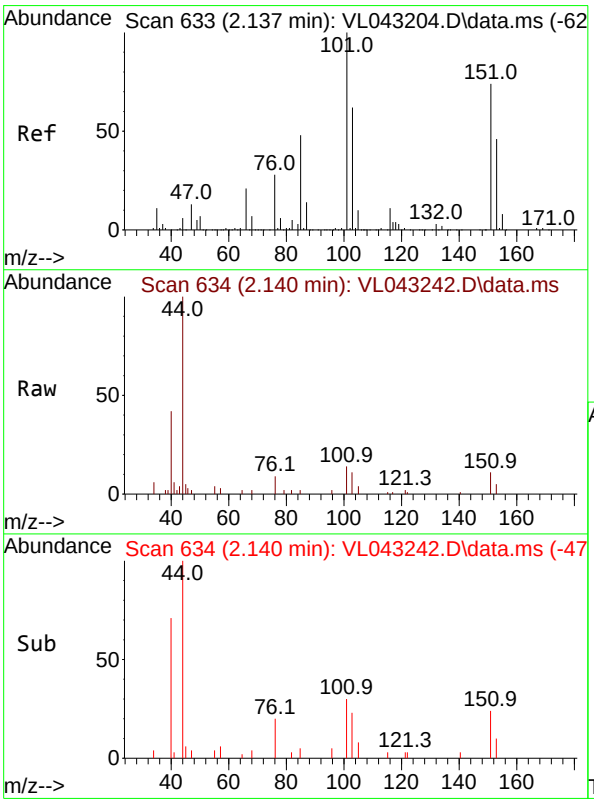
#11
Trichlorofluoromethane
Concen: 0.124 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion:101 Resp: 1791

Ion	Ratio	Lower	Upper
101	100		
103	67.7	52.6	79.0

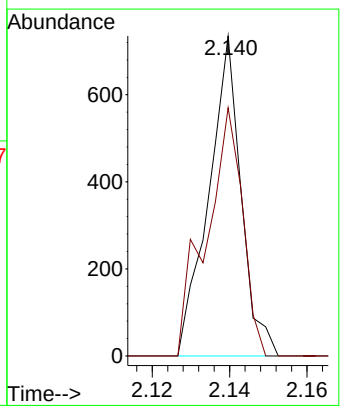


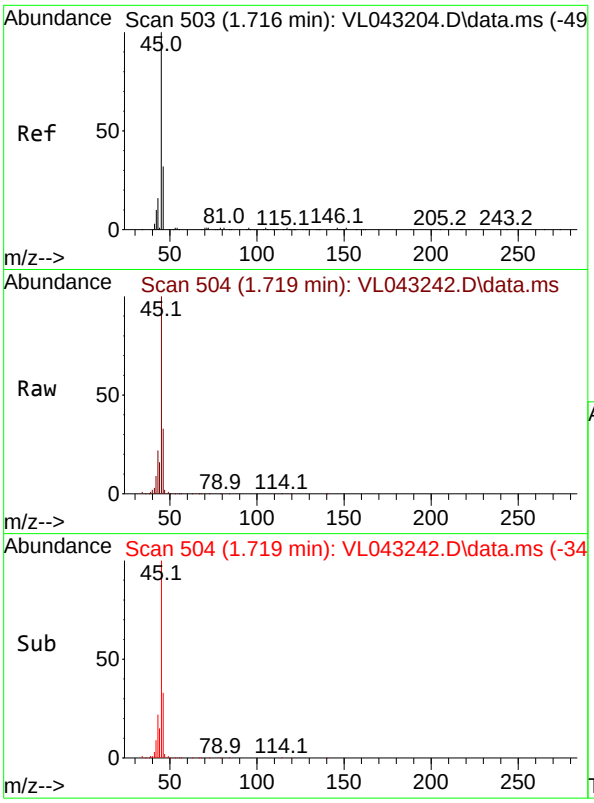


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.038 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion:101 Resp: 427

Ion	Ratio	Lower	Upper
101	100		
151	85.9	59.2	88.8



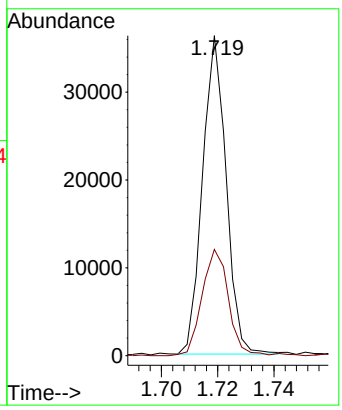


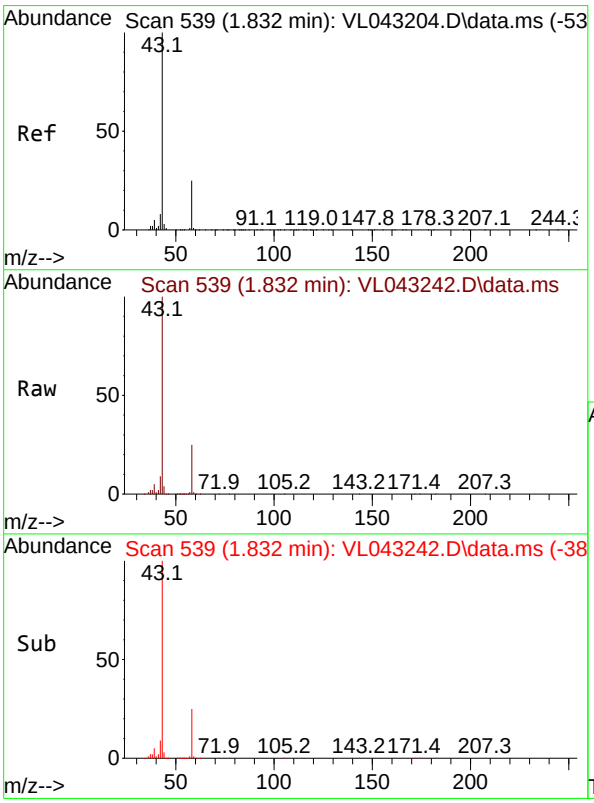
#13
Ethanol
Concen: 9.609 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion: 45 Resp: 21091

Ion	Ratio	Lower	Upper
45	100		
46	38.4	15.0	59.8

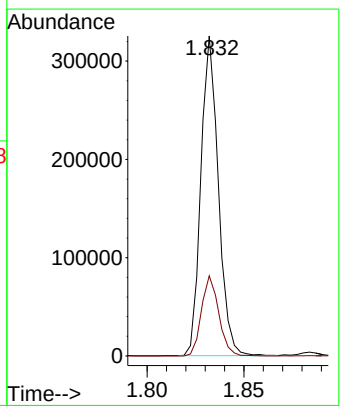


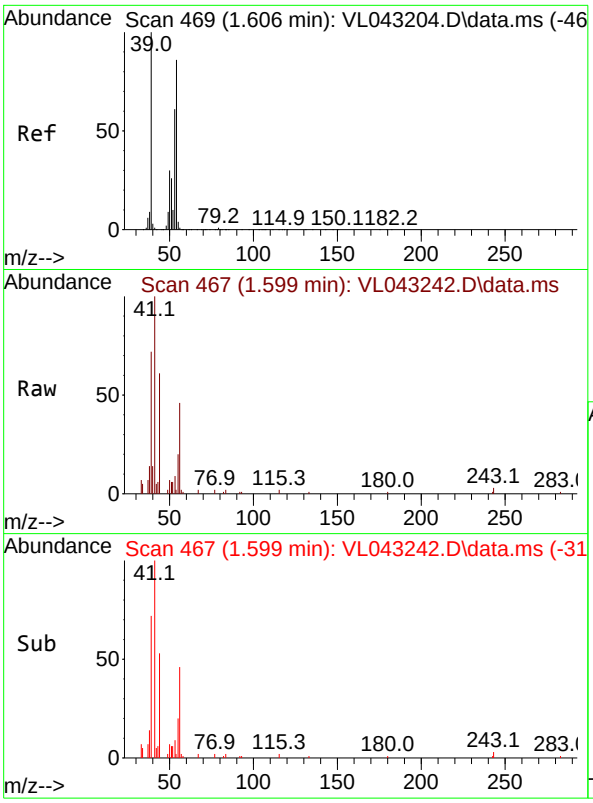


#15
Acetone
Concen: 13.836 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 43 Resp: 203704

Ion	Ratio	Lower	Upper
43	100		
58	24.8	20.7	31.1



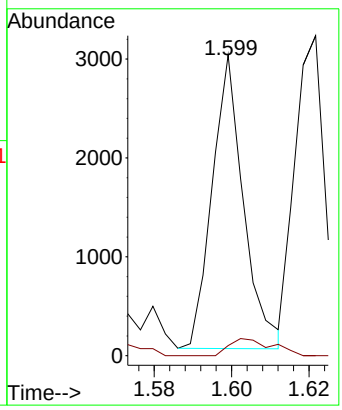


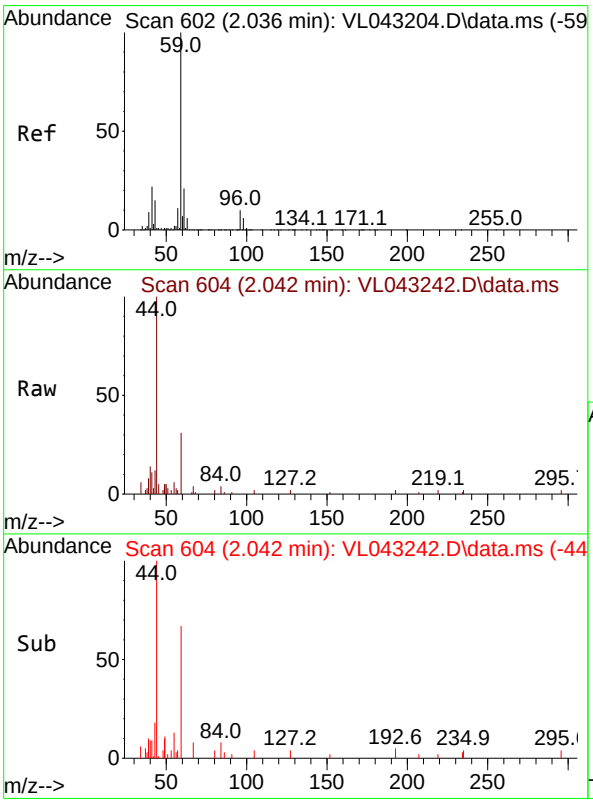
#16
1,3-Butadiene
Concen: 0.255 ppbv
RT: 1.599 min Scan# 4(
Delta R.T. -0.007 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion: 39 Resp: 1671

Ion	Ratio	Lower	Upper
39	100		
54	8.0	59.4	89.2#

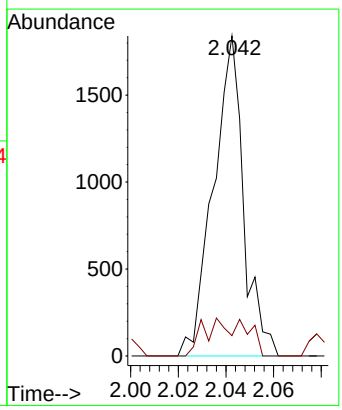


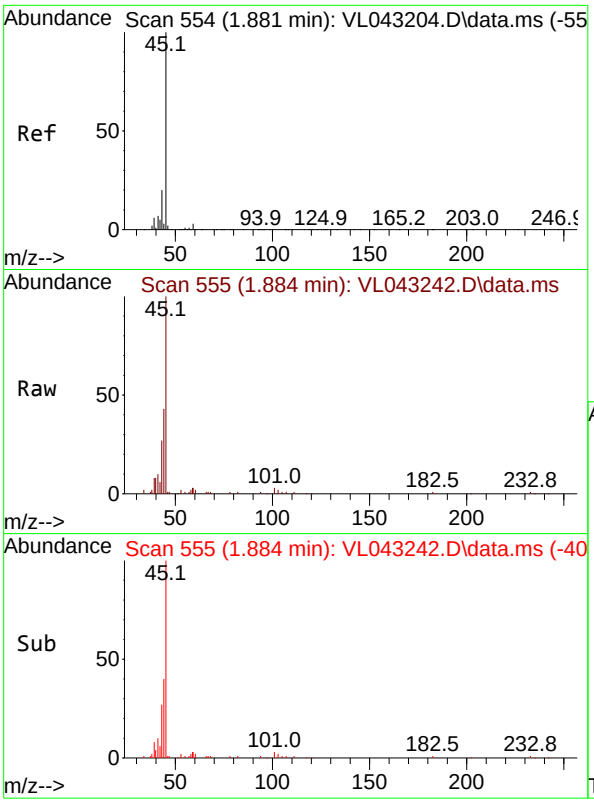


#17
tert-Butyl alcohol
Concen: 0.084 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 59 Resp: 1619

Ion	Ratio	Lower	Upper
59	100		
57	16.2	9.0	13.4#



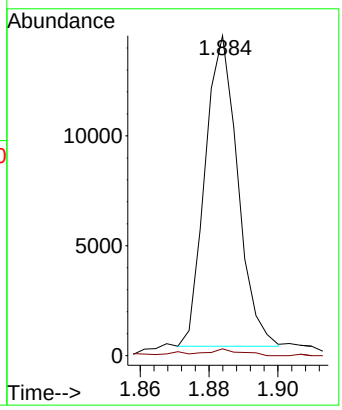


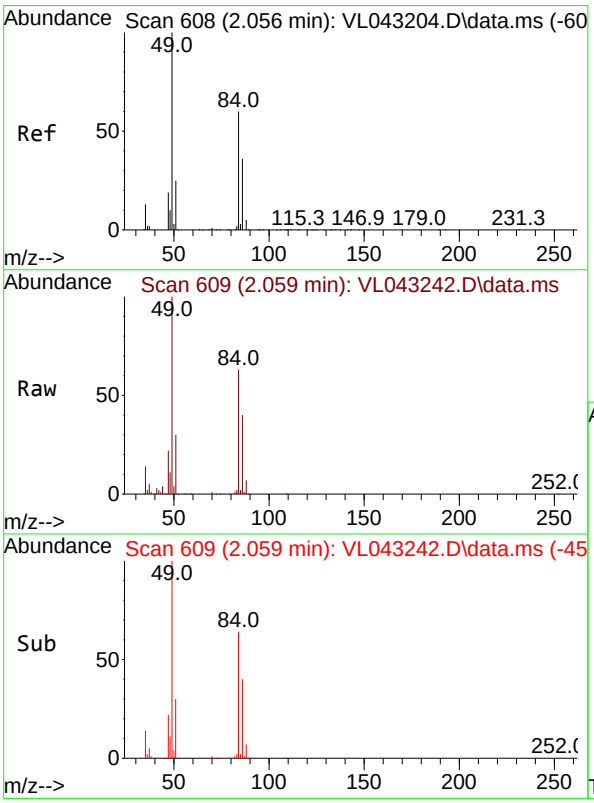
#19
Isopropyl Alcohol
Concen: 1.117 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion: 45 Resp: 9293

Ion	Ratio	Lower	Upper
45	100		
58	544.2	31.3	46.9#

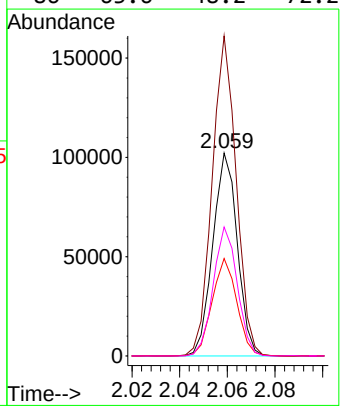


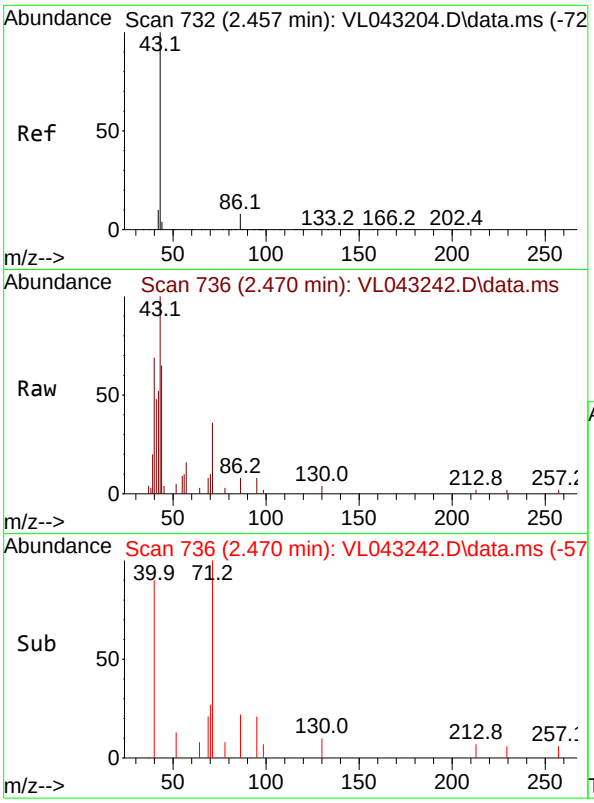


#20
Methylene Chloride
Concen: 17.373 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 84 Resp: 72858

Ion	Ratio	Lower	Upper
84	100		
49	157.6	132.9	199.3
51	47.9	34.8	52.2
86	63.6	48.2	72.2



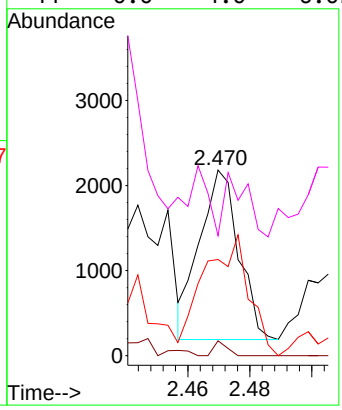


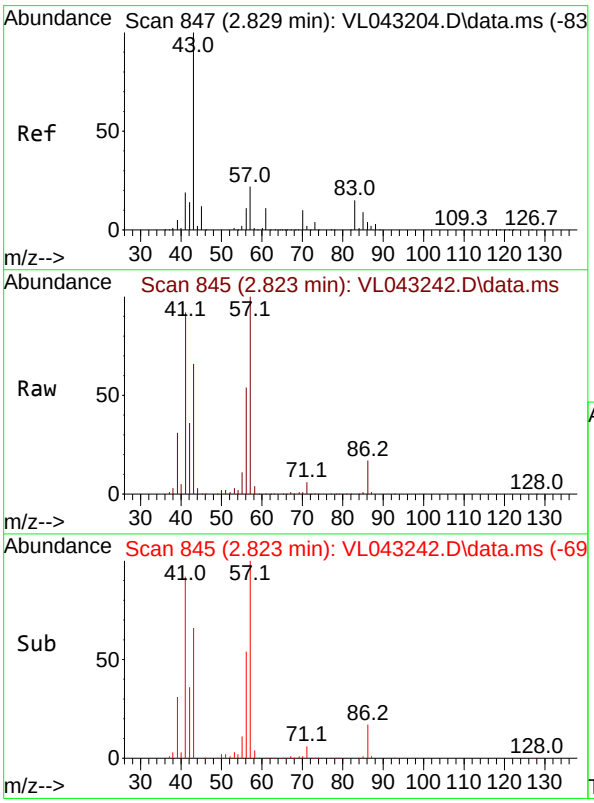
#23
Vinyl Acetate
Concen: 0.098 ppbv
RT: 2.470 min Scan# 7
Delta R.T. 0.013 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion: 43 Resp: 1750

Ion	Ratio	Lower	Upper
43	100		
86	5.1	6.2	9.2#
42	33.2	8.0	12.0#
44	0.0	4.0	6.0#

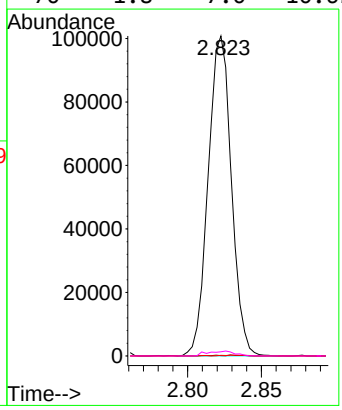


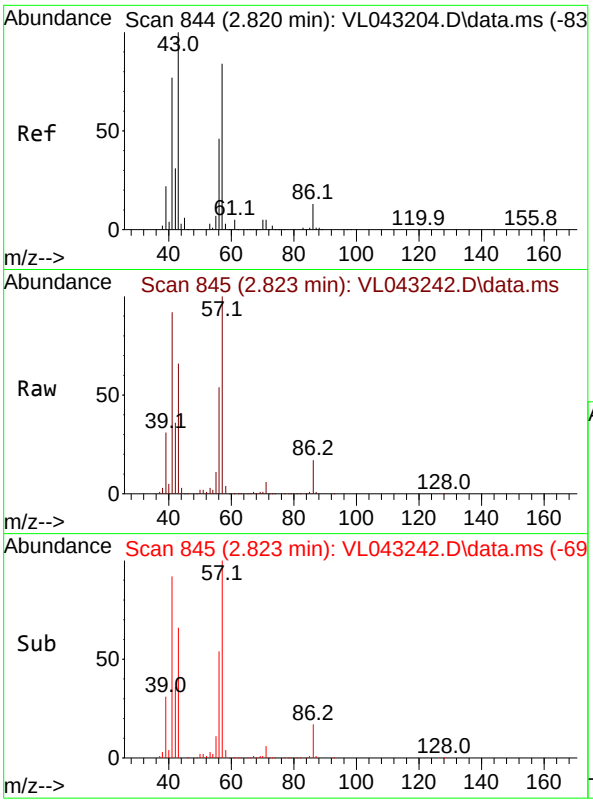


#25
Ethyl Acetate
Concen: 3.482 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.007 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 43 Resp: 110568

Ion	Ratio	Lower	Upper
43	100		
45	0.3	8.1	12.1#
61	0.3	7.0	10.4#
70	1.8	7.0	10.6#



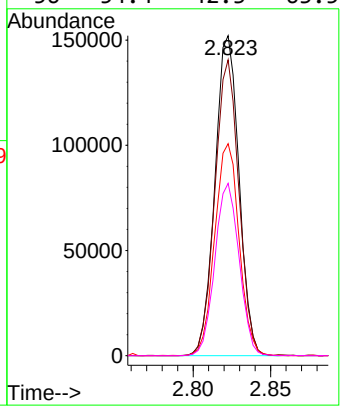


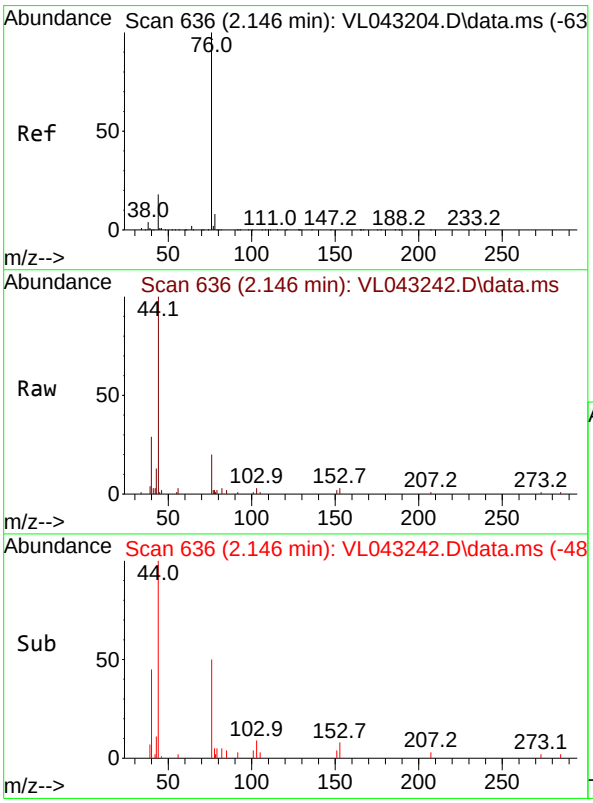
#26
Hexane
Concen: 11.799 ppbv
RT: 2.823 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion: 57 Resp: 164266

Ion	Ratio	Lower	Upper
57	100		
41	92.6	74.6	111.8
43	67.4	179.0	268.4#
56	54.4	42.3	63.5

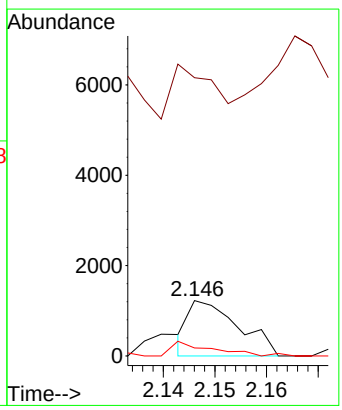


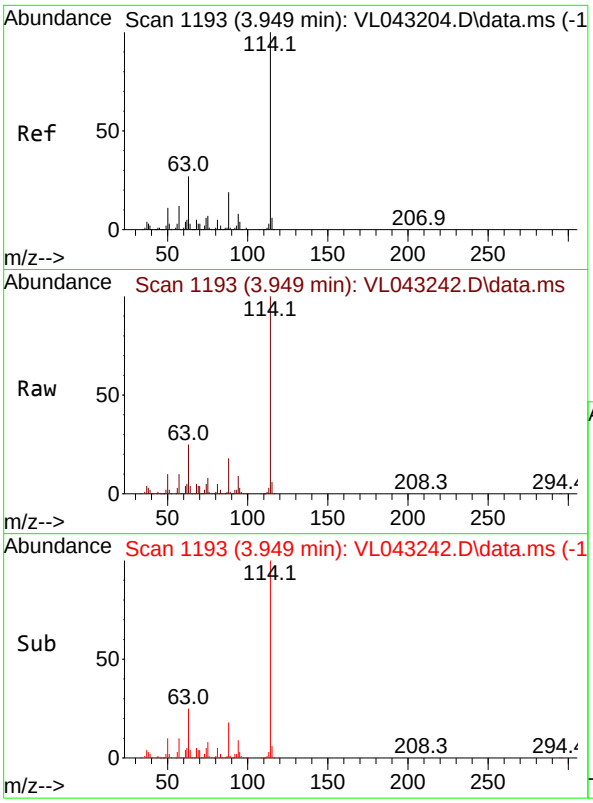


#27
Carbon Disulfide
Concen: 0.058 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 76 Resp: 825

Ion	Ratio	Lower	Upper
76	100		
44	0.0	16.1	24.1#
78	24.6	9.6	14.4#



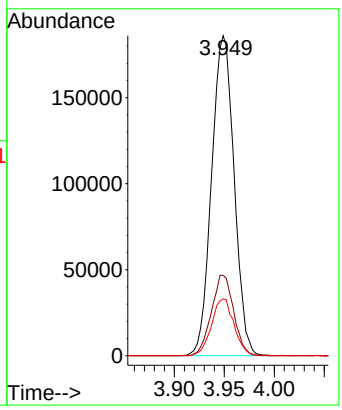


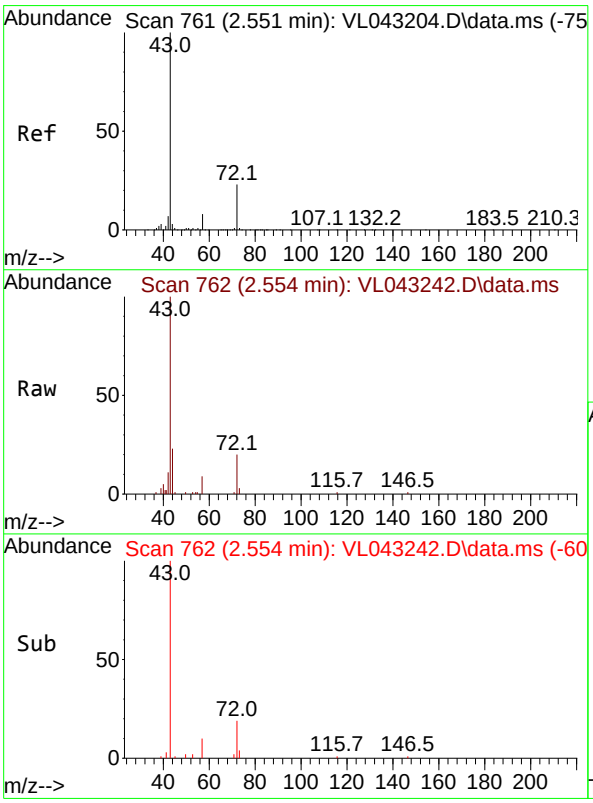
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion:114 Resp: 291718

Ion	Ratio	Lower	Upper
114	100		
63	24.8	21.0	31.6
88	17.7	14.9	22.3

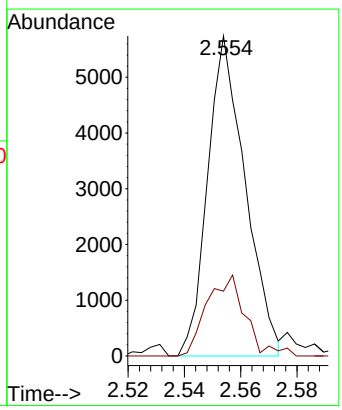


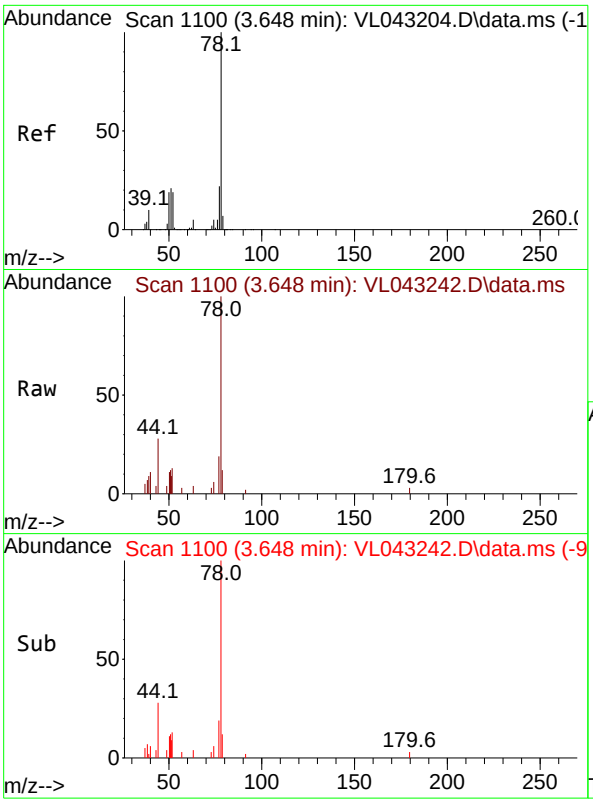


#34
2-Butanone
Concen: 0.258 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 43 Resp: 5323

Ion	Ratio	Lower	Upper
43	100		
72	25.9	18.1	27.1



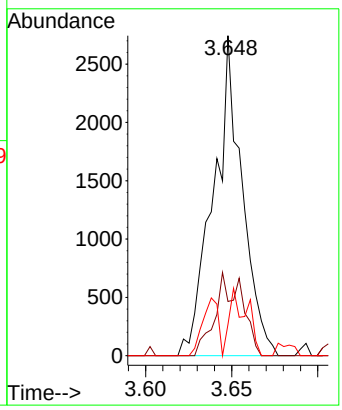


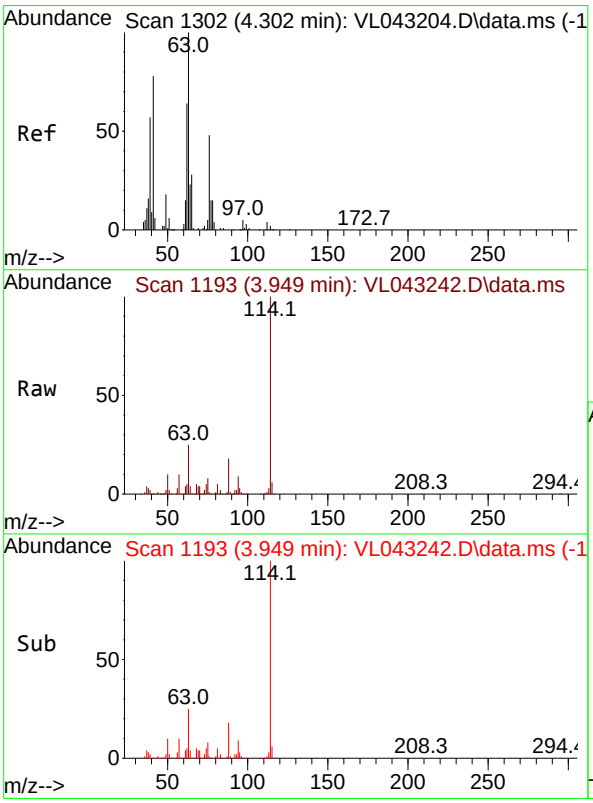
#36
Benzene
Concen: 0.114 ppbv
RT: 3.648 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion: 78 Resp: 3190

Ion	Ratio	Lower	Upper
78	100		
77	16.9	17.5	26.3#
50	20.3	15.5	23.3

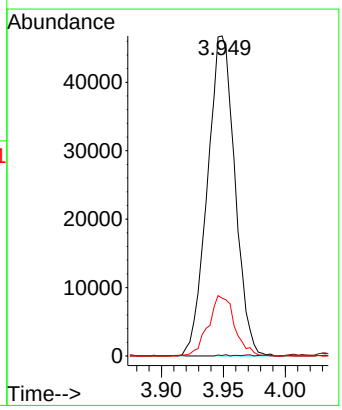


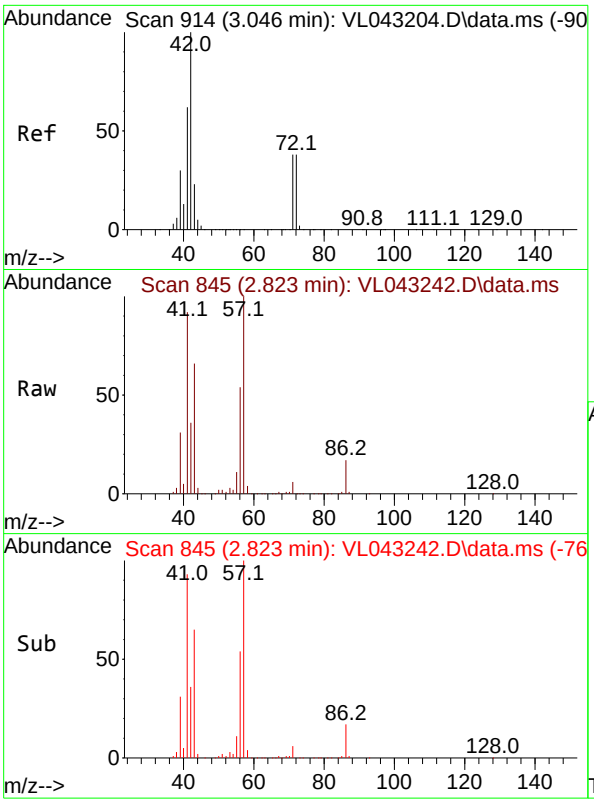


#39
1,2-Dichloropropane
Concen: 7.076 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.353 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion: 63 Resp: 72355

Ion	Ratio	Lower	Upper
63	100		
41	0.2	62.6	93.8#
62	18.1	51.0	76.6#



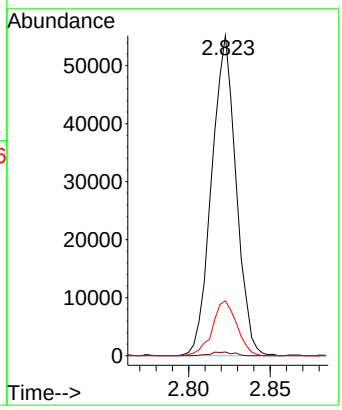


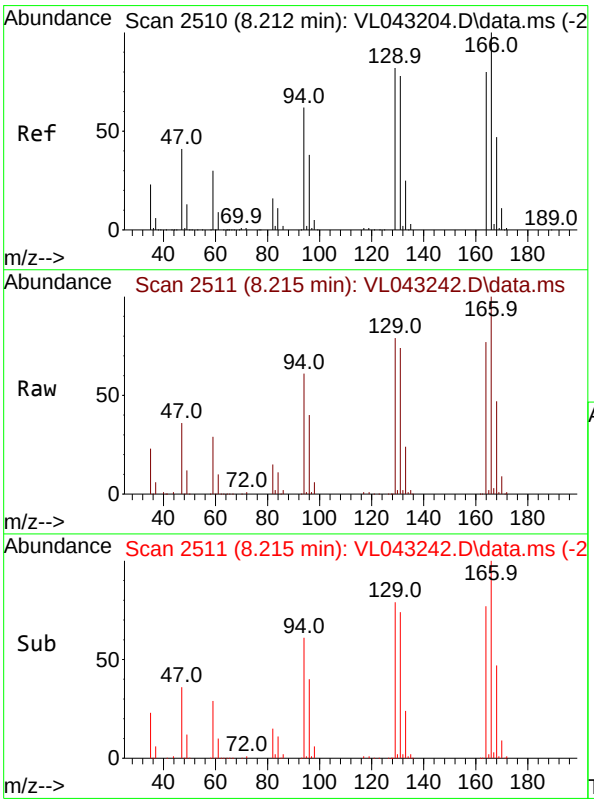
#41
Tetrahydrofuran
Concen: 5.062 ppbv
RT: 2.823 min Scan# 8
Delta R.T. -0.224 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion: 42 Resp: 57567

Ion	Ratio	Lower	Upper
42	100		
72	1.1	30.6	46.0#
71	17.1	30.5	45.7#

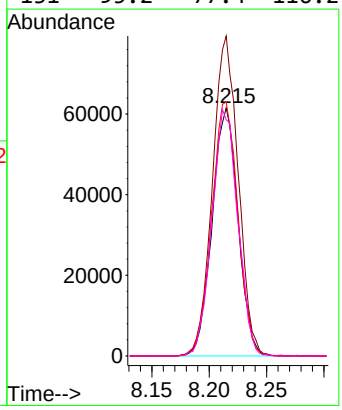


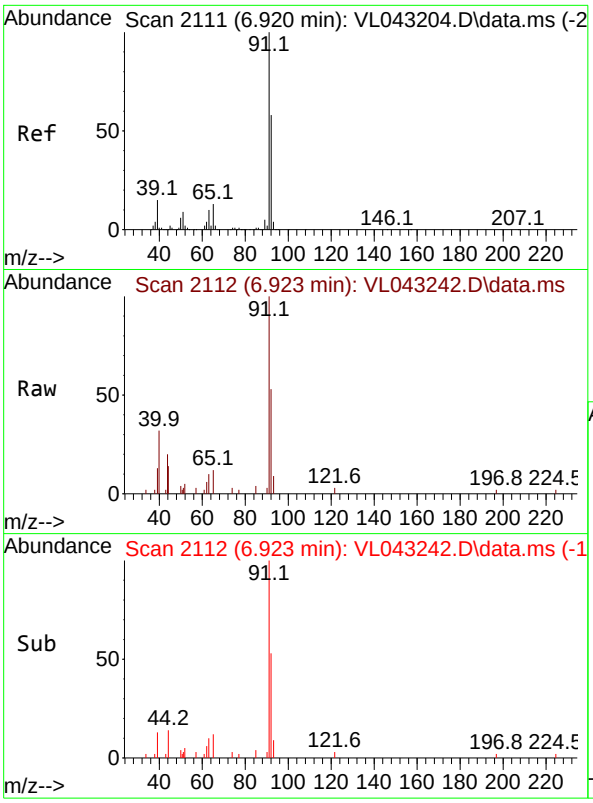


#52
Tetrachloroethene
Concen: 9.262 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion:164 Resp: 96249

Ion	Ratio	Lower	Upper
164	100		
166	129.0	99.4	149.2
129	102.4	81.8	122.8
131	95.2	77.4	116.2



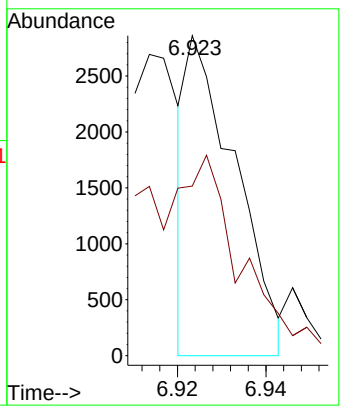


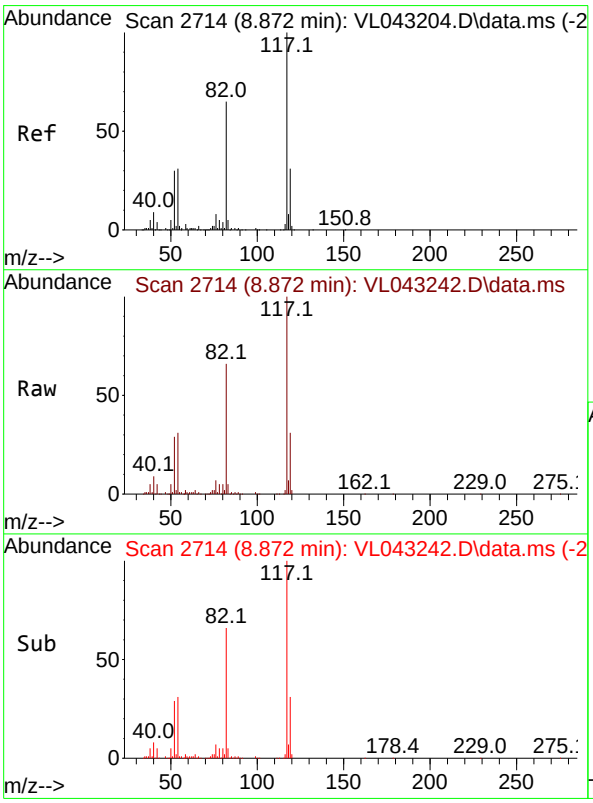
#53
Toluene
Concen: 0.067 ppbv
RT: 6.923 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion: 91 Resp: 2201

Ion	Ratio	Lower	Upper
91	100		
92	140.2	47.4	71.0#

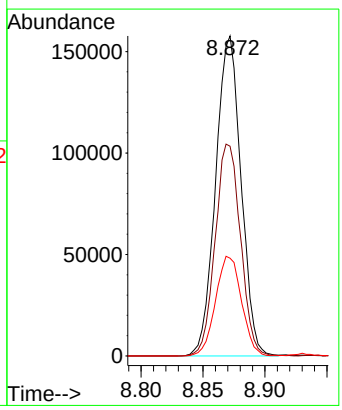


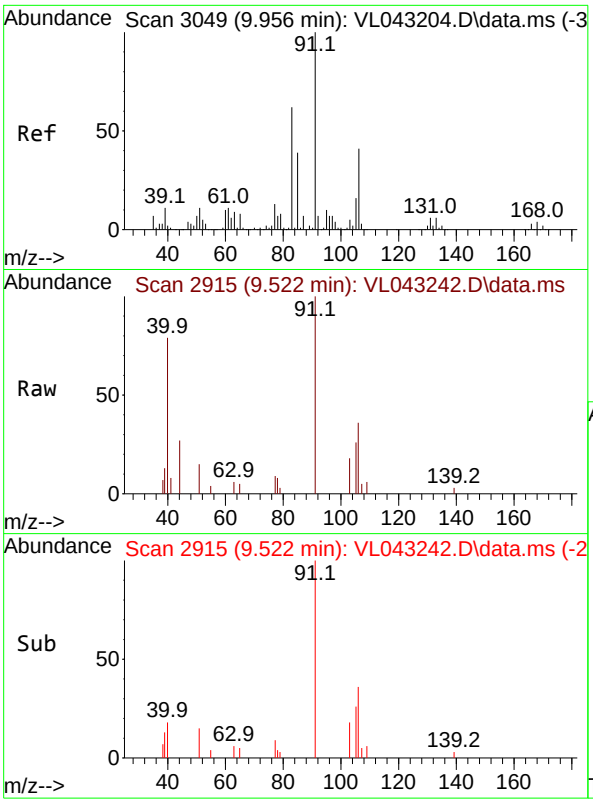


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion:117 Resp: 225662

Ion	Ratio	Lower	Upper
117	100		
82	66.0	56.1	84.1
119	31.8	25.0	37.6



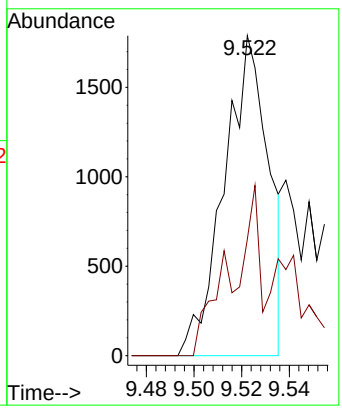


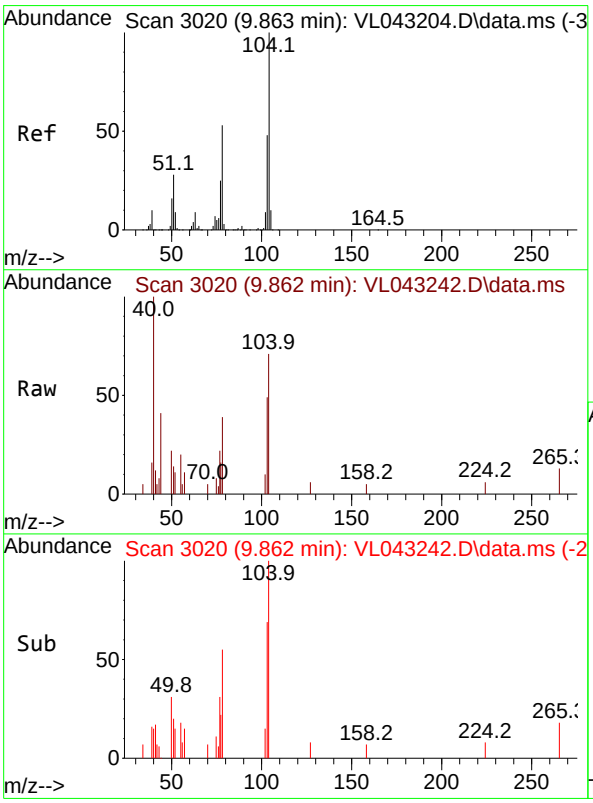
#60
o-Xylene
Concen: 0.066 ppbv
RT: 9.522 min Scan# 2
Delta R.T. -0.434 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion: 91 Resp: 2308

Ion	Ratio	Lower	Upper
91	100		
106	58.8	20.9	62.8

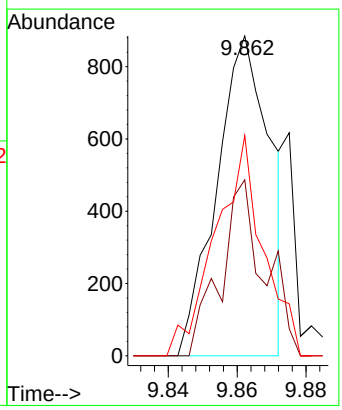


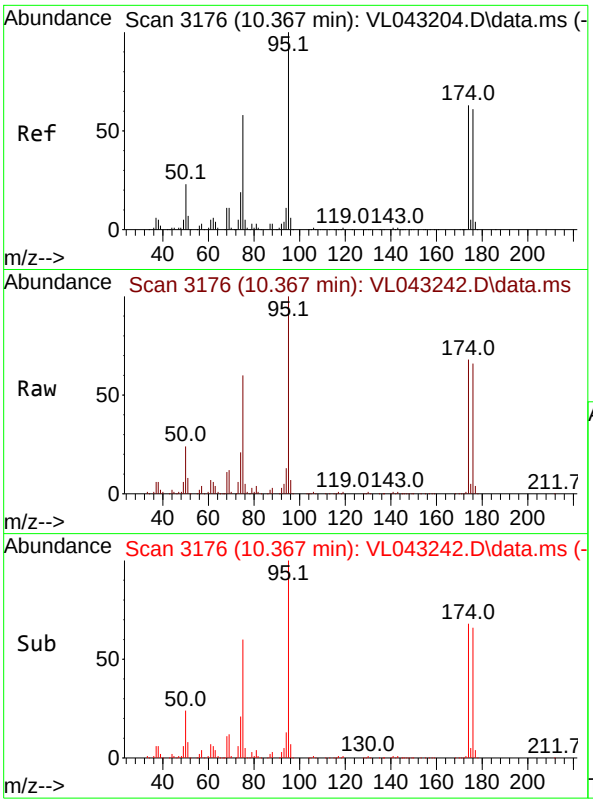


#61
Styrene
Concen: 0.063 ppbv
RT: 9.862 min Scan# 3020
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Tgt Ion:104 Resp: 954

Ion	Ratio	Lower	Upper
104	100		
78	45.2	42.1	63.1
103	61.0	37.2	55.8#



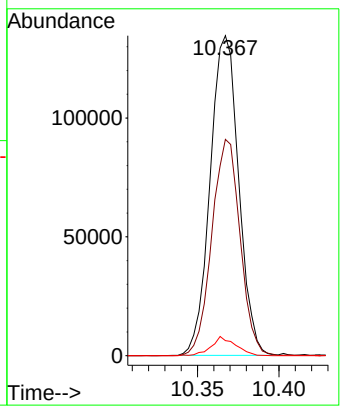


#68
1-Bromo-4-Fluorobenzene
Concen: 9.879 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043242.D
Acq: 19 Nov 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2

Tgt Ion: 95 Resp: 163410

Ion	Ratio	Lower	Upper
95	100		
174	67.3	50.2	75.2
175	5.1	4.1	6.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043243.D
Acq On : 19 Nov 2025 17:13
Operator : SY/MD
Sample : Q3626-09 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Quant Time: Nov 20 00:07:36 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

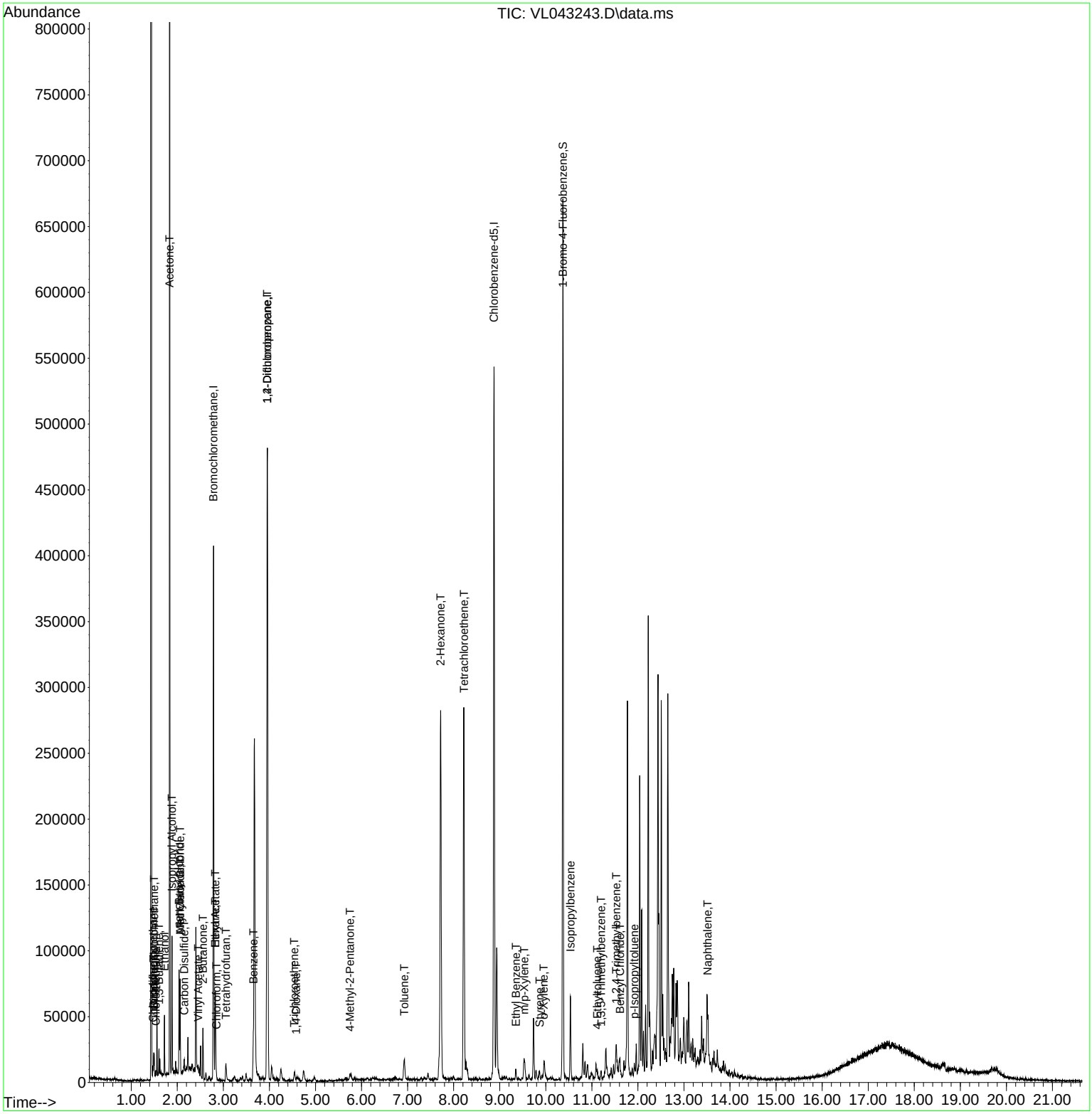
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	101617	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	283781	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	218981	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	161224	10.044	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	4141	0.289	ppbv		96
3) Chlorodifluoromethane	1.476	51	4774	0.339	ppbv	#	89
4) Chloromethane	1.531	50	950	0.177	ppbv	#	70
9) Propene	1.489	41	1958	0.327	ppbv	#	86
13) Ethanol	1.722	45	15848	7.530	ppbv		93
15) Acetone	1.832	43	583978	41.364	ppbv		100
16) 1,3-Butadiene	1.602	39	2439	0.388	ppbv	#	30
17) tert-Butyl alcohol	2.039	59	30856	1.665	ppbv		97
19) Isopropyl Alcohol	1.884	45	42116	5.279	ppbv	#	1
20) Methylene Chloride	2.062	84	10486	1.884	ppbv		92
21) Allyl Chloride	2.062	41	285	0.030	ppbv	#	21
23) Vinyl Acetate	2.454	43	4269	0.250	ppbv	#	77
25) Ethyl Acetate	2.826	43	12245	0.402	ppbv	#	83
26) Hexane	2.826	57	14958	1.120	ppbv	#	47
27) Carbon Disulfide	2.153	76	4341	0.319	ppbv	#	1
29) Chloroform	2.852	83	951	0.050	ppbv	#	77
34) 2-Butanone	2.557	43	23268	1.162	ppbv		97
36) Benzene	3.654	78	23107	0.850	ppbv		97
38) Trichloroethene	4.538	130	650	0.061	ppbv	#	66
39) 1,2-Dichloropropane	3.955	63	71737	7.212	ppbv	#	24
40) 1,4-Dioxane	4.583	88	192	0.043	ppbv	#	1
41) Tetrahydrofuran	3.056	42	2653	0.240	ppbv	#	43
50) 4-Methyl-2-Pentanone	5.749	43	1825	0.065	ppbv	#	39
51) 2-Hexanone	7.716	43	223523	10.201	ppbv	#	29
52) Tetrachloroethene	8.225	164	49381	4.885	ppbv		98
53) Toluene	6.927	91	10983	0.341	ppbv		99
58) Ethyl Benzene	9.351	91	3551	0.084	ppbv		93
59) m/p-Xylene	9.532	91	5425	0.161	ppbv	#	31
60) o-Xylene	9.956	91	4090	0.121	ppbv		95
61) Styrene	9.866	104	1564	0.106	ppbv	#	69
62) Isopropylbenzene	10.536	105	28762	0.476	ppbv		99
66) Benzyl Chloride	11.610	91	918	0.168	ppbv	#	1
69) p-Isopropyltoluene	11.921	119	2923	0.046	ppbv		90
72) 4-Ethyltoluene	11.121	105	1416	0.034	ppbv	#	84
73) 1,3,5-Trimethylbenzene	11.202	105	1102	0.032	ppbv		88
74) 1,2,4-Trimethylbenzene	11.532	105	5600	0.149	ppbv	#	53
79) Naphthalene	13.513	128	1296	0.039	ppbv	#	27

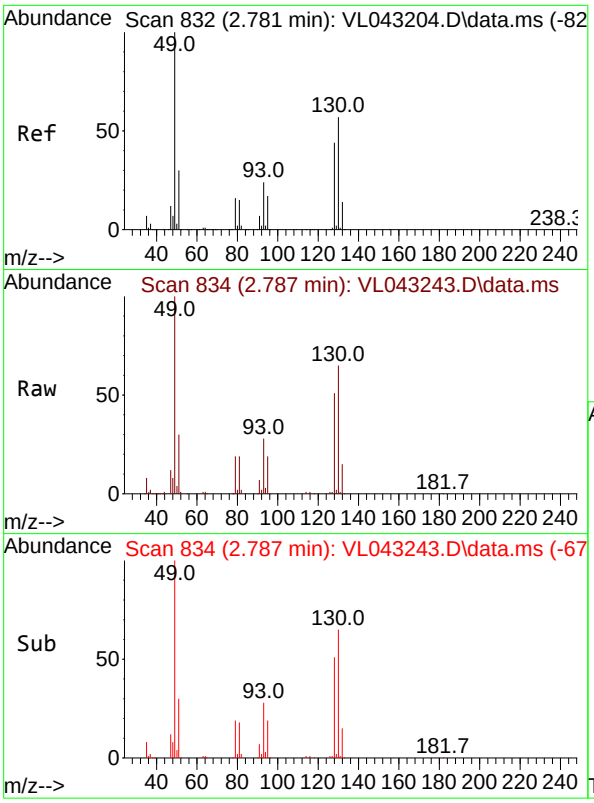
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043243.D
Acq On : 19 Nov 2025 17:13
Operator : SY/MD
Sample : Q3626-09 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Quant Time: Nov 20 00:07:36 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



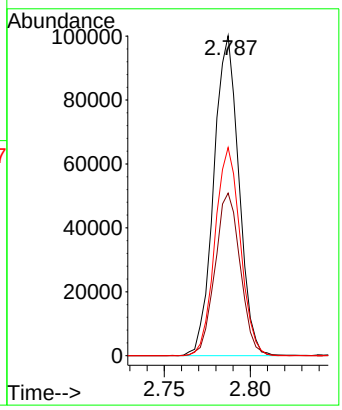


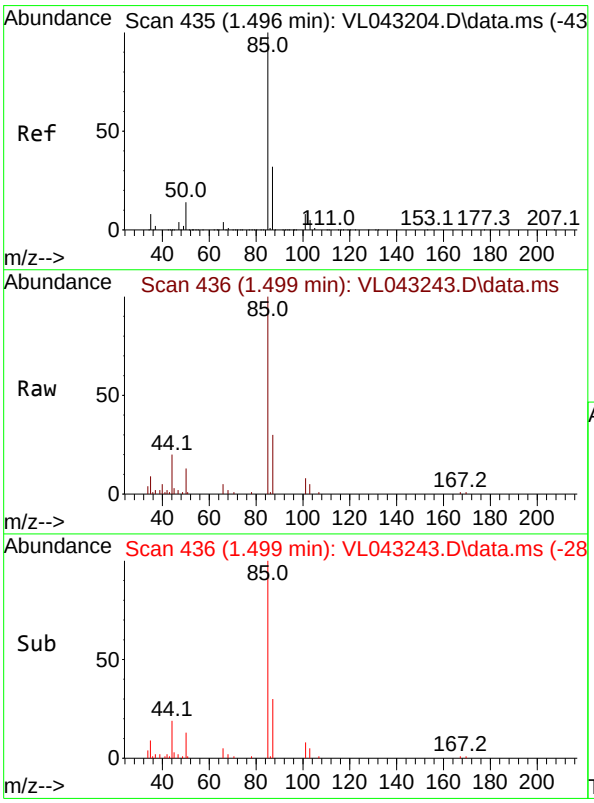
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 49 Resp: 101617

Ion	Ratio	Lower	Upper
49	100		
128	51.2	23.0	69.0
130	65.6	29.9	89.7

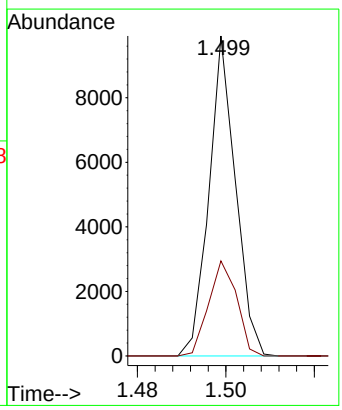


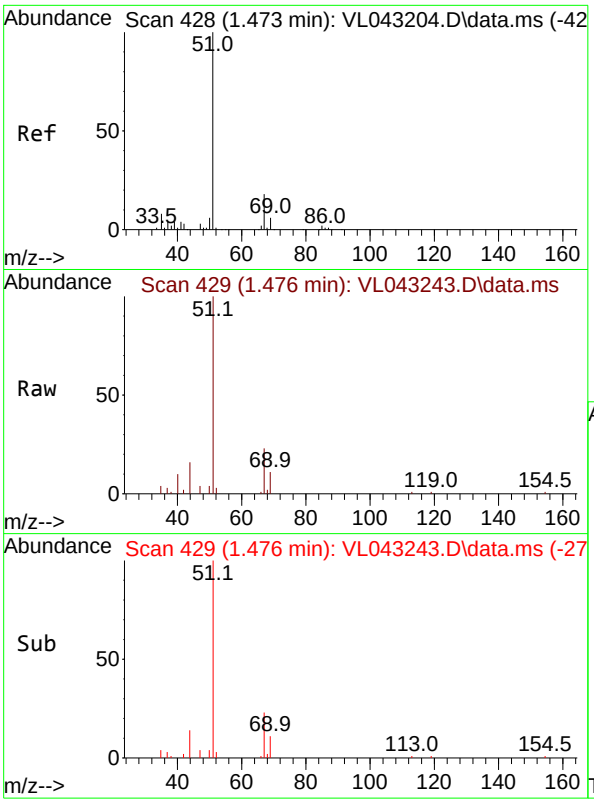


#2
Dichlorodifluoromethane
Concen: 0.289 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 85 Resp: 4141

Ion	Ratio	Lower	Upper
85	100		
87	29.7	25.4	38.2



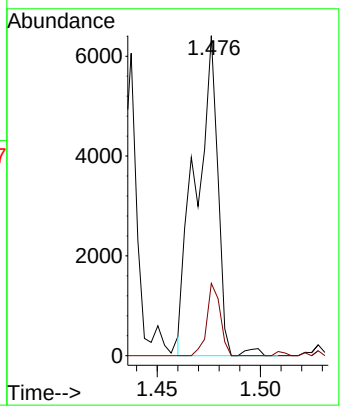


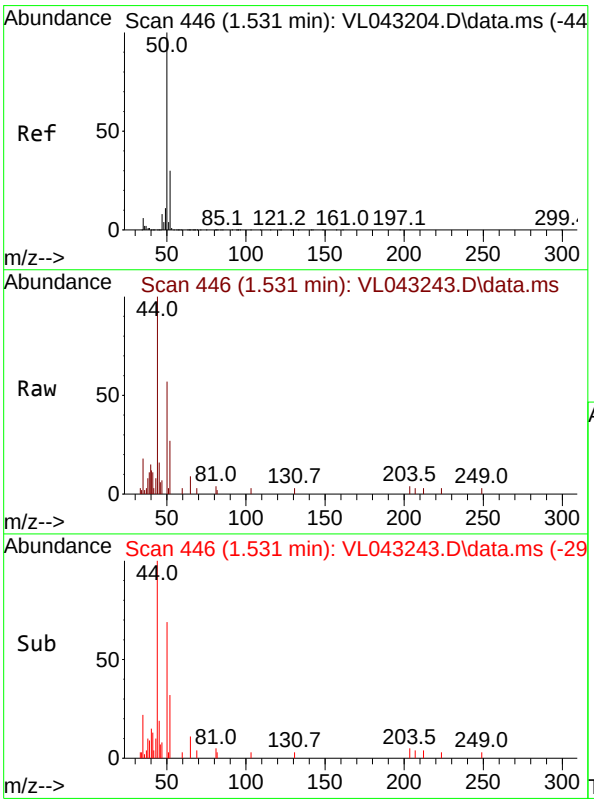
#3
Chlorodifluoromethane
Concen: 0.339 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 51 Resp: 4774

Ion	Ratio	Lower	Upper
51	100		
67	13.6	14.9	22.3#

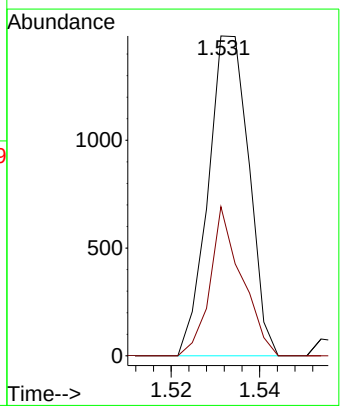


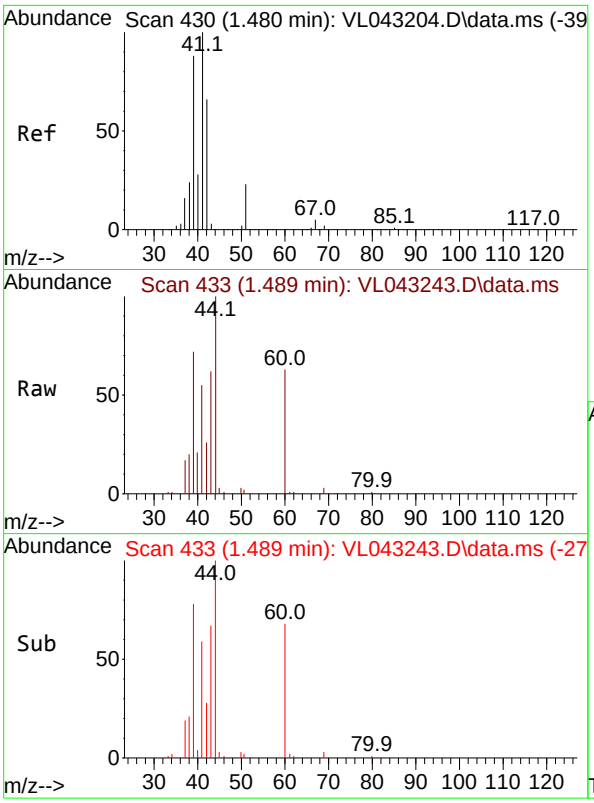


#4
Chloromethane
Concen: 0.177 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 50 Resp: 950

Ion	Ratio	Lower	Upper
50	100		
52	46.6	24.1	36.1#



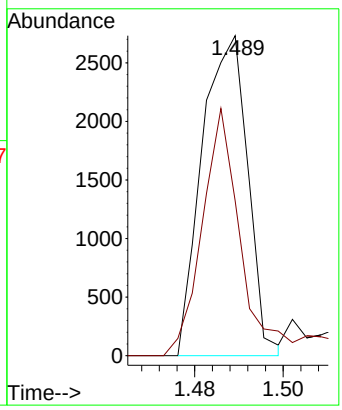


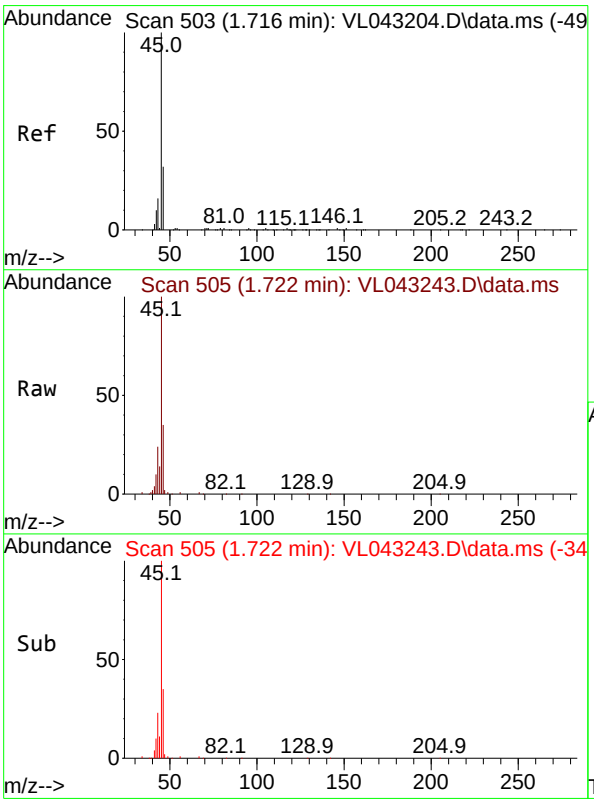
#9
Propene
Concen: 0.327 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 41 Resp: 1958

Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5#

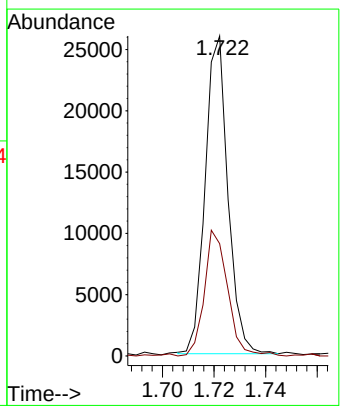


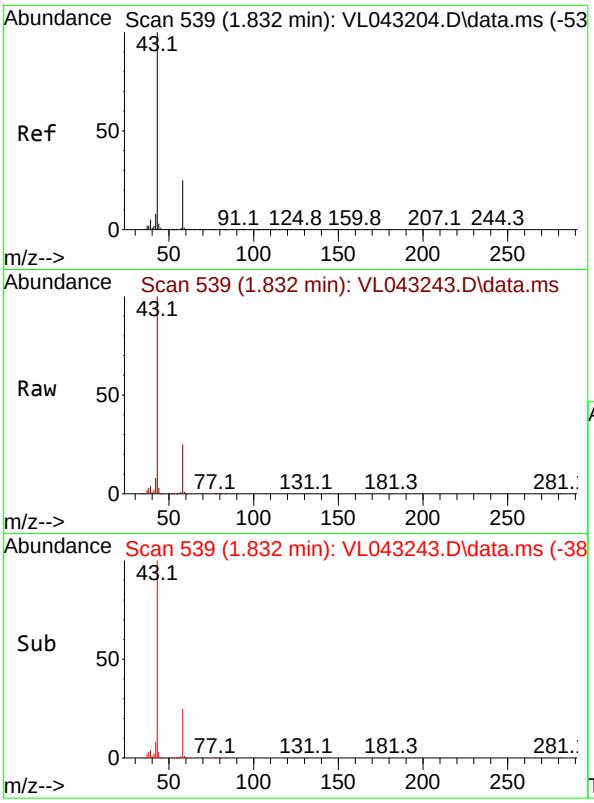


#13
Ethanol
Concen: 7.530 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 45 Resp: 15848

Ion	Ratio	Lower	Upper
45	100		
46	41.7	15.0	59.8



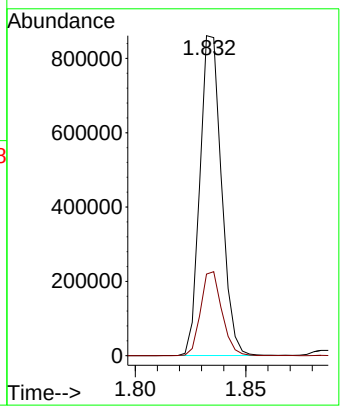


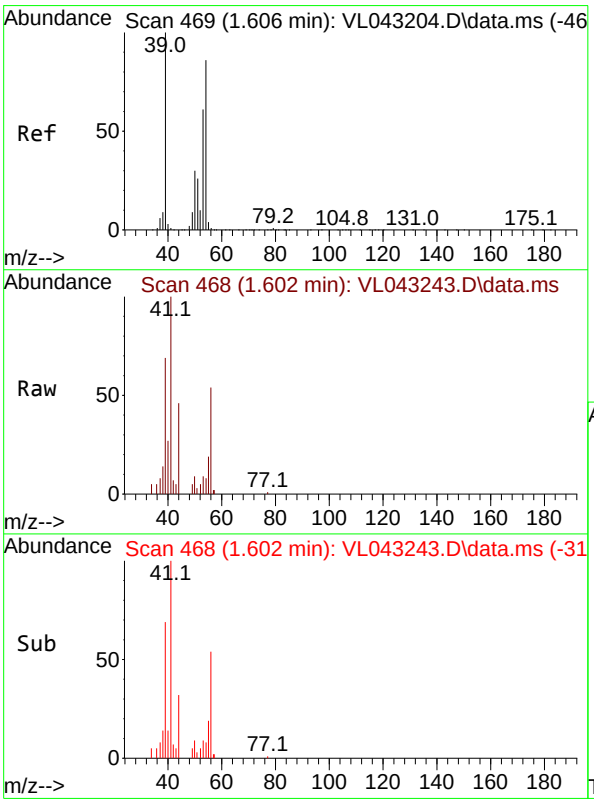
#15
Acetone
Concen: 41.364 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 43 Resp: 583978

Ion	Ratio	Lower	Upper
43	100		
58	26.1	20.7	31.1

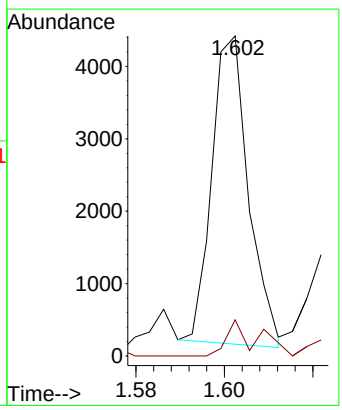


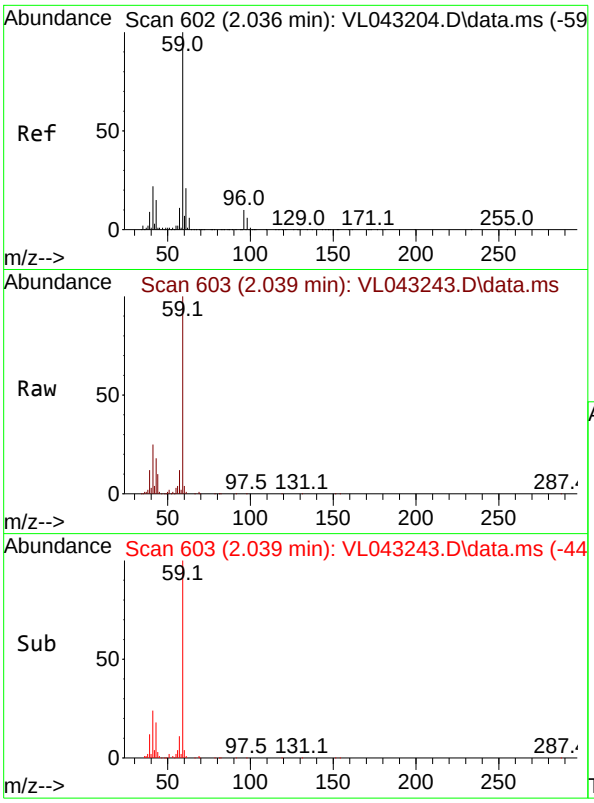


#16
1,3-Butadiene
Concen: 0.388 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 39 Resp: 2439

Ion	Ratio	Lower	Upper
39	100		
54	15.3	59.4	89.2#



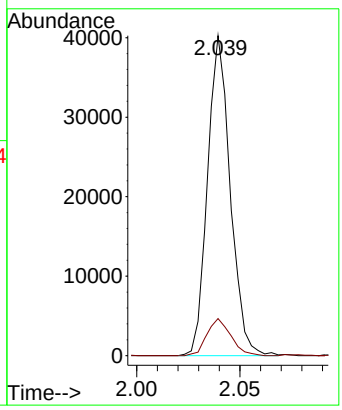


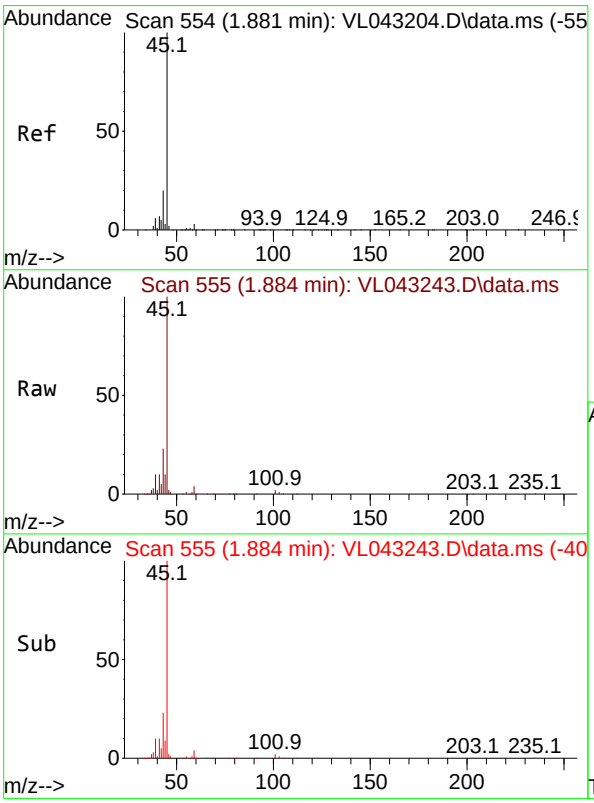
#17
tert-Butyl alcohol
Concen: 1.665 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 59 Resp: 30856

Ion	Ratio	Lower	Upper
59	100		
57	12.4	9.0	13.4

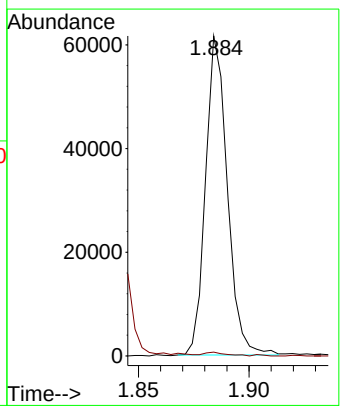


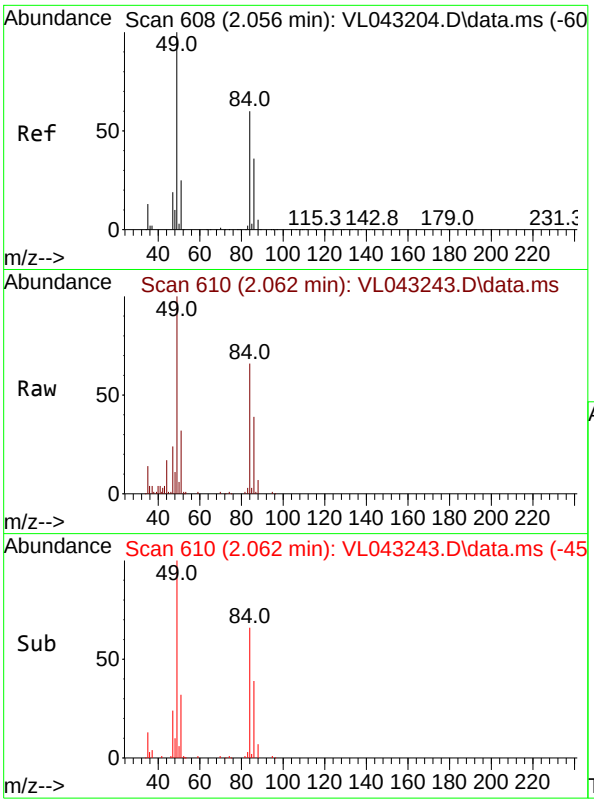


#19
Isopropyl Alcohol
Concen: 5.279 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 45 Resp: 42116

Ion	Ratio	Lower	Upper
45	100		
58	362.0	31.3	46.9#



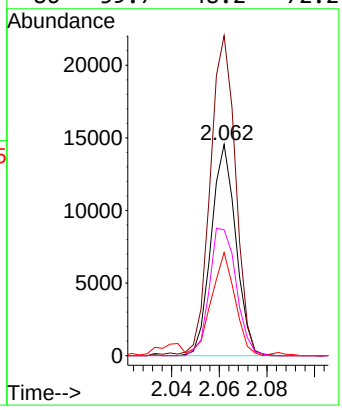


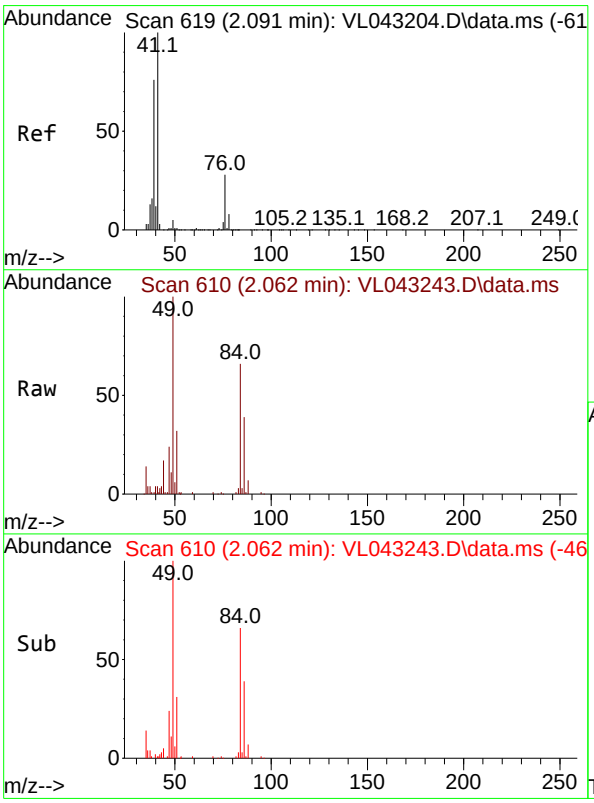
#20
Methylene Chloride
Concen: 1.884 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 84 Resp: 10486

Ion	Ratio	Lower	Upper
84	100		
49	151.6	132.9	199.3
51	47.4	34.8	52.2
86	59.7	48.2	72.2

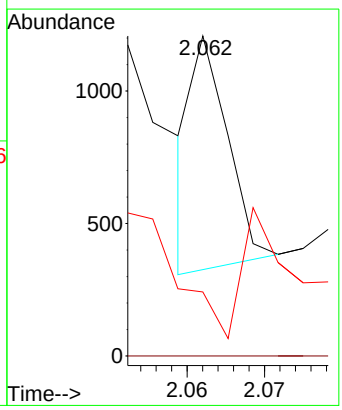


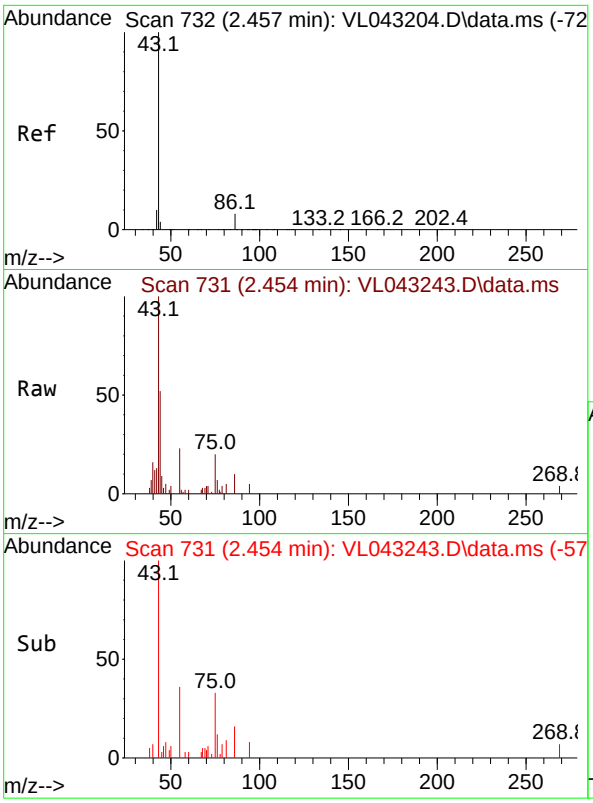


#21
Allyl Chloride
Concen: 0.030 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.029 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 41 Resp: 285

Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.1	33.1#
39	0.0	61.0	91.4#



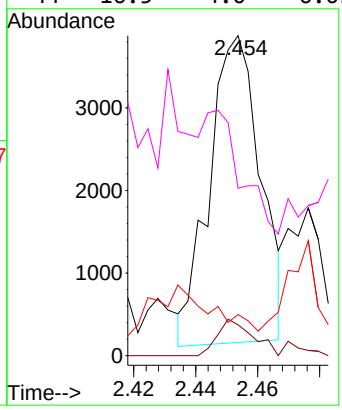


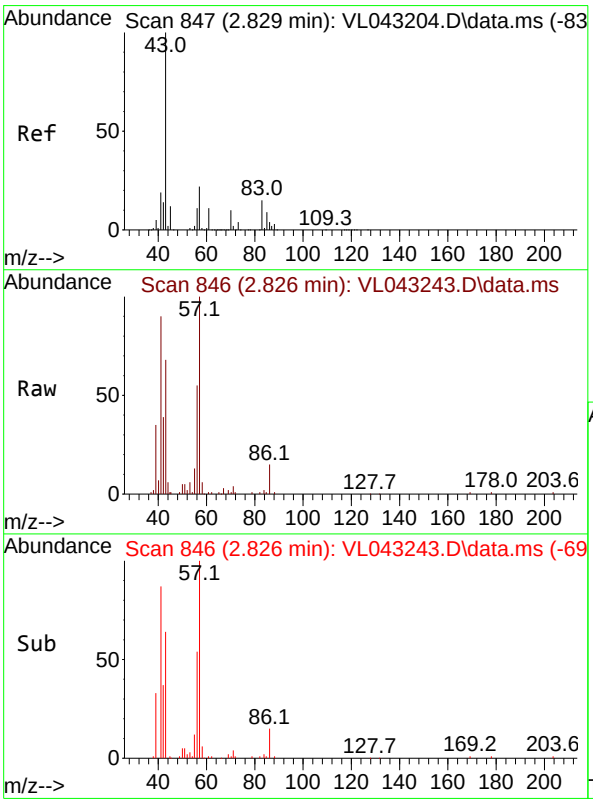
#23
Vinyl Acetate
Concen: 0.250 ppbv
RT: 2.454 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 43 Resp: 4269

Ion	Ratio	Lower	Upper
43	100		
86	11.1	6.2	9.2#
42	0.0	8.0	12.0#
44	16.5	4.0	6.0#

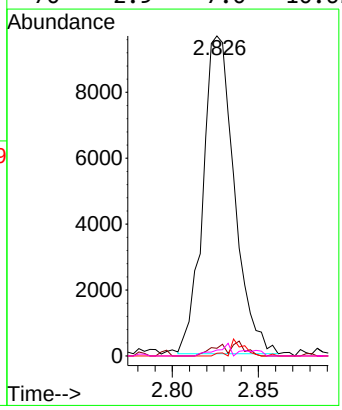


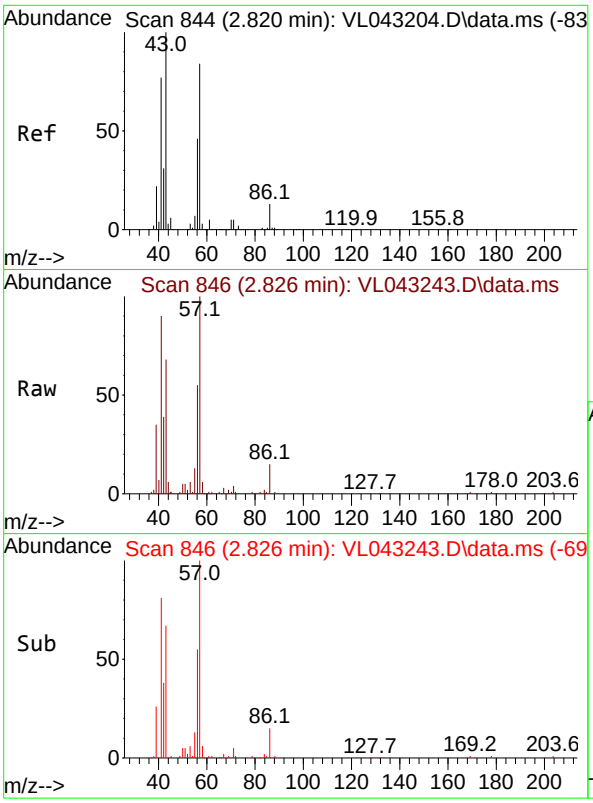


#25
Ethyl Acetate
Concen: 0.402 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 43 Resp: 12245

Ion	Ratio	Lower	Upper
43	100		
45	3.6	8.1	12.1#
61	2.4	7.0	10.4#
70	2.9	7.0	10.6#



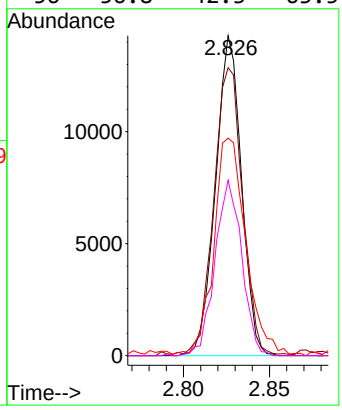


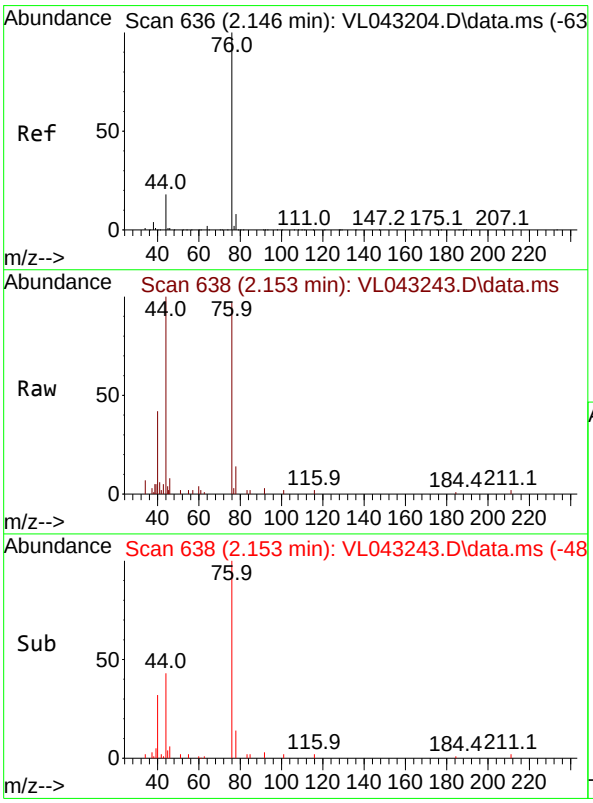
#26
Hexane
Concen: 1.120 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 57 Resp: 14958

Ion	Ratio	Lower	Upper
57	100		
41	100.6	74.6	111.8
43	87.6	179.0	268.4#
56	56.8	42.3	63.5

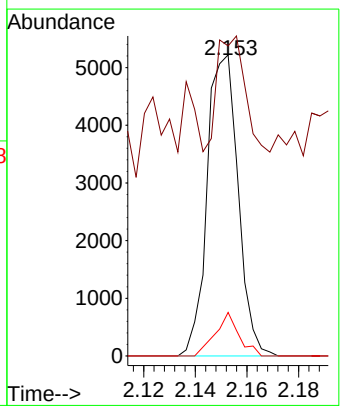


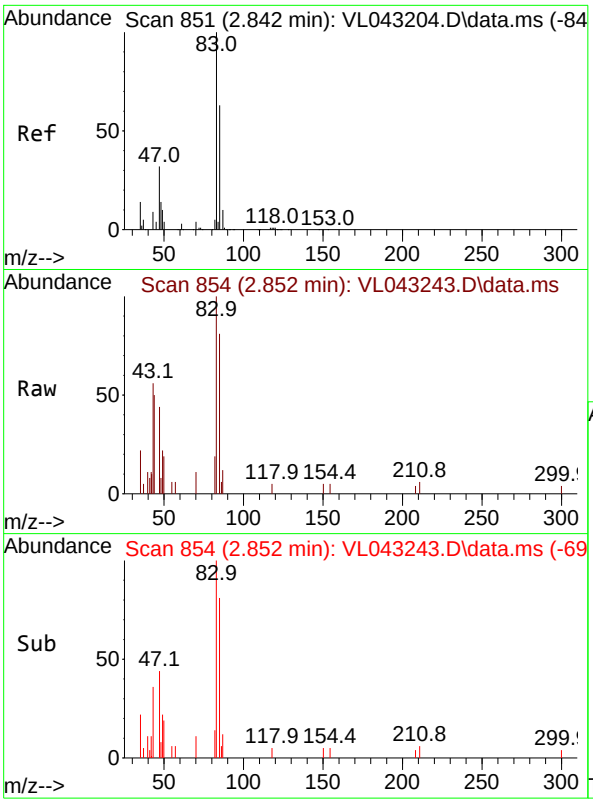


#27
Carbon Disulfide
Concen: 0.319 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 76 Resp: 4341

Ion	Ratio	Lower	Upper
76	100		
44	225.4	16.1	24.1#
78	11.0	9.6	14.4



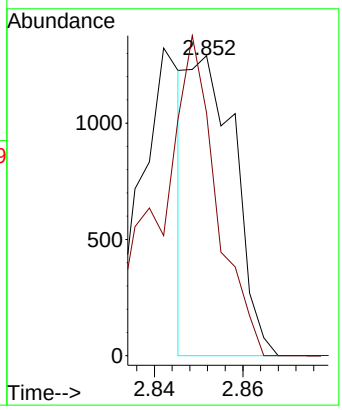


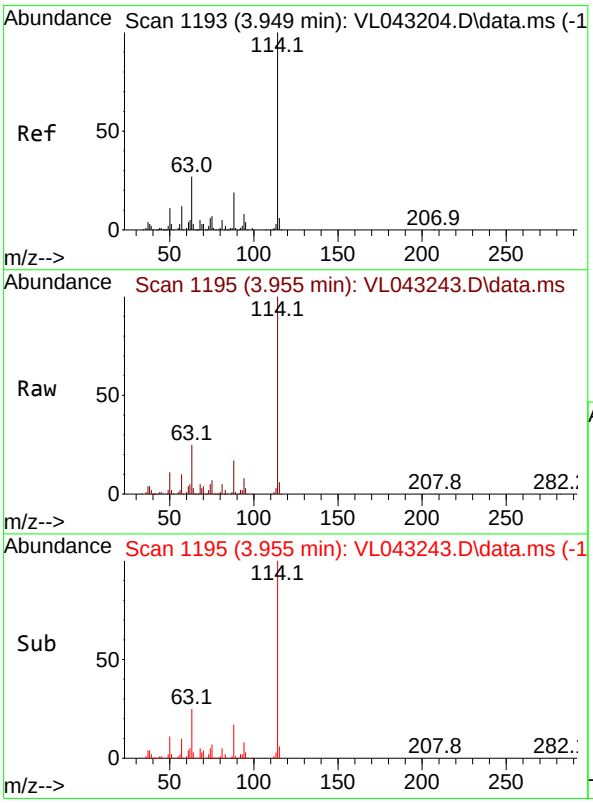
#29
Chloroform
Concen: 0.050 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 83 Resp: 951

Ion	Ratio	Lower	Upper
83	100		
85	81.0	50.5	75.7#

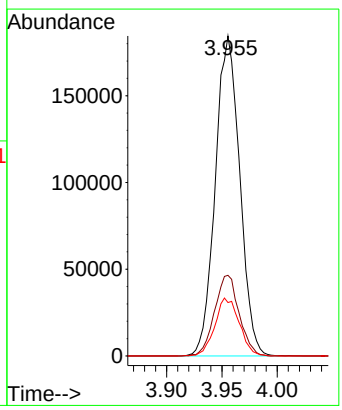


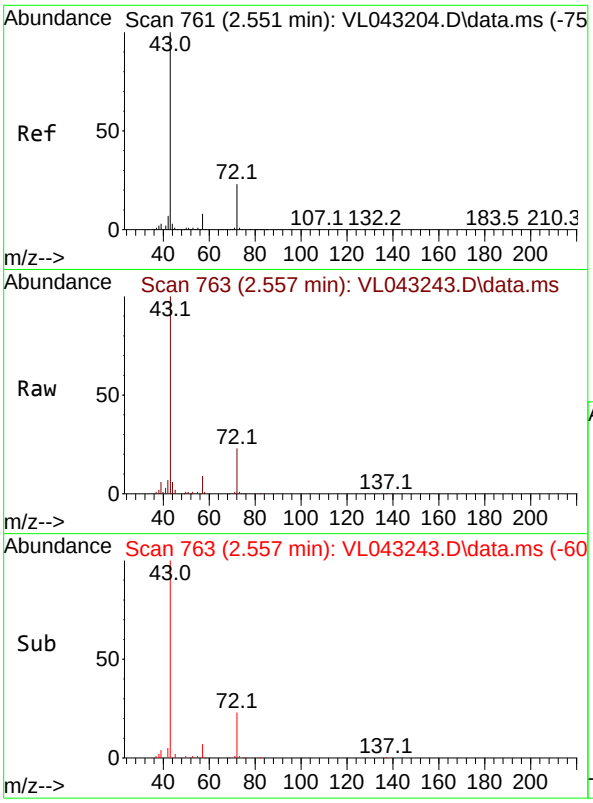


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion:114 Resp: 283781

Ion	Ratio	Lower	Upper
114	100		
63	25.3	21.0	31.6
88	18.1	14.9	22.3



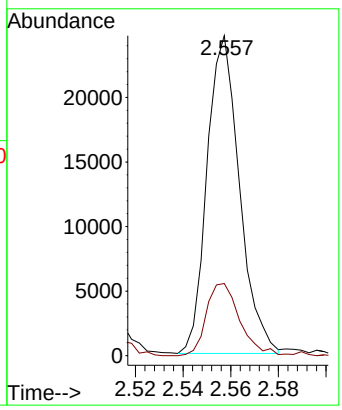


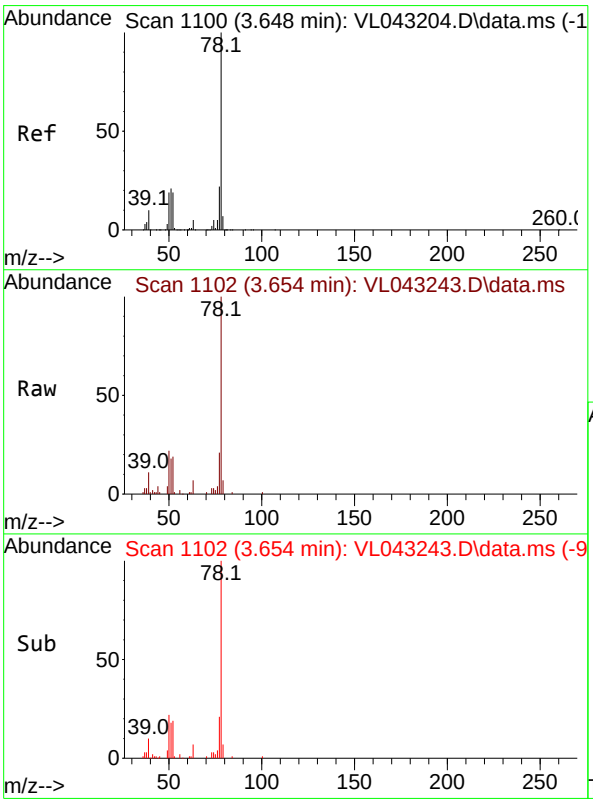
#34
2-Butanone
Concen: 1.162 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 43 Resp: 23268

Ion	Ratio	Lower	Upper
43	100		
72	24.0	18.1	27.1

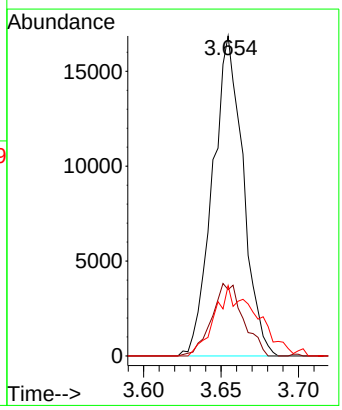


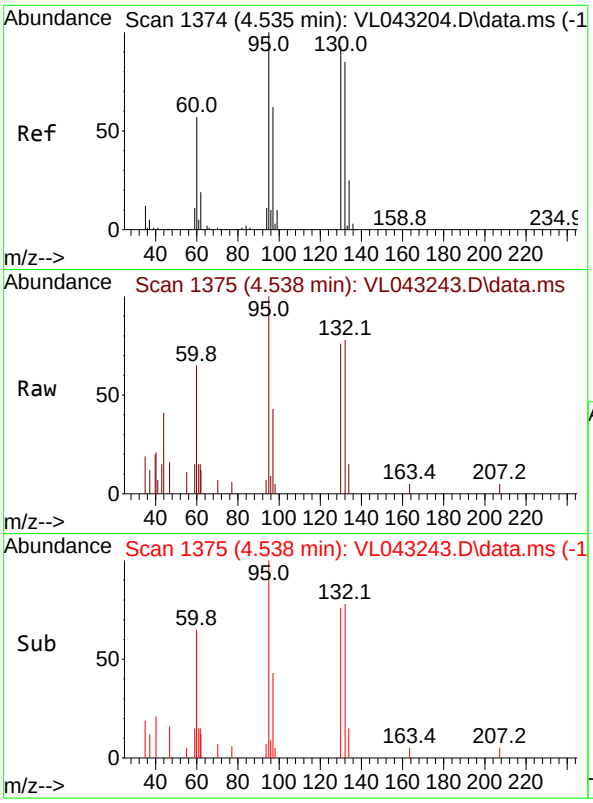


#36
Benzene
Concen: 0.850 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 78 Resp: 23107

Ion	Ratio	Lower	Upper
78	100		
77	20.8	17.5	26.3
50	21.5	15.5	23.3



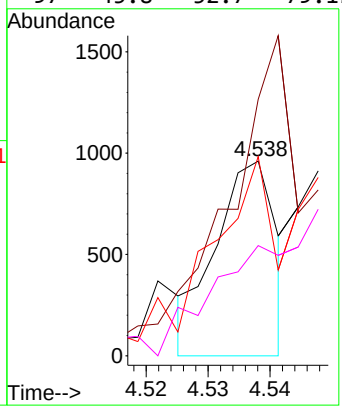


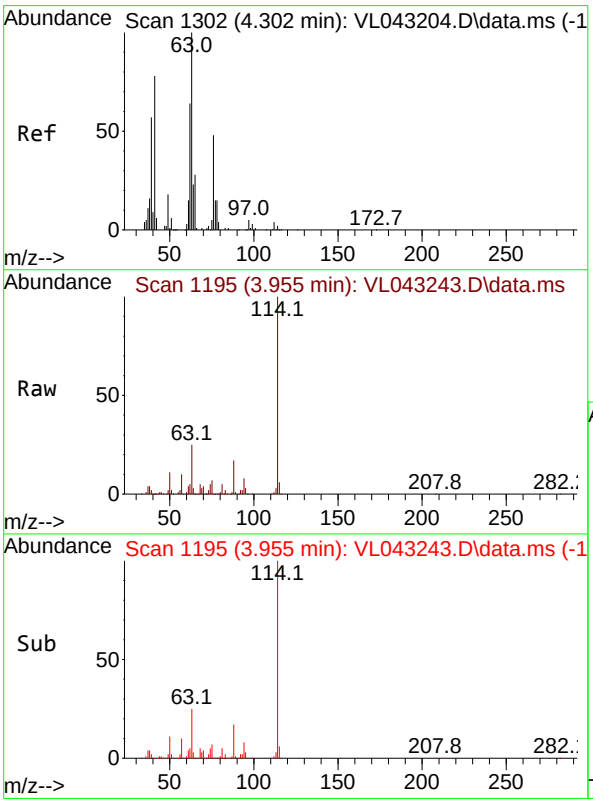
#38
Trichloroethene
Concen: 0.061 ppbv
RT: 4.538 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion:130 Resp: 650

Ion	Ratio	Lower	Upper
130	100		
95	142.5	85.7	128.5#
132	130.0	73.4	110.0#
97	45.8	52.7	79.1#

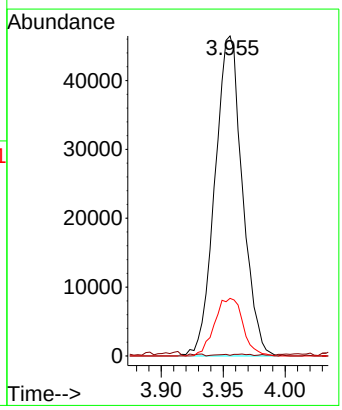


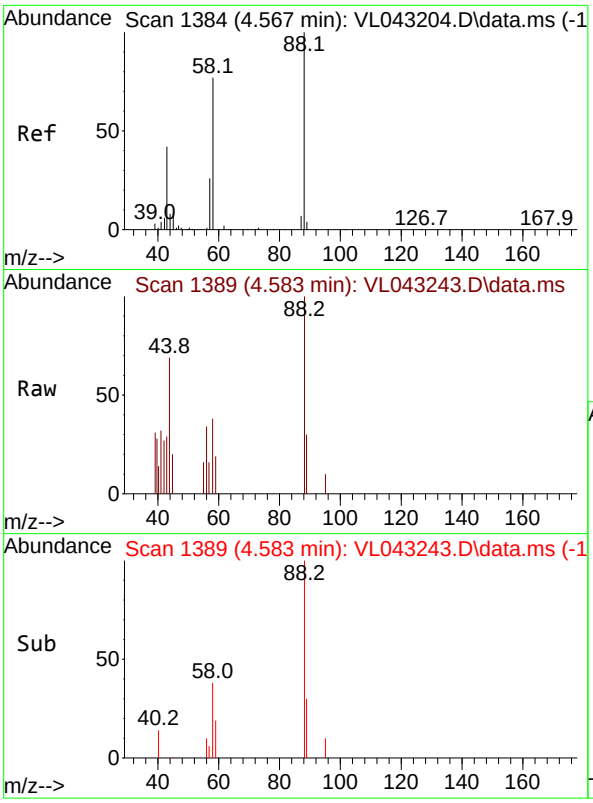


#39
1,2-Dichloropropane
Concen: 7.212 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.347 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 63 Resp: 71737

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.6	93.8#
62	18.0	51.0	76.6#



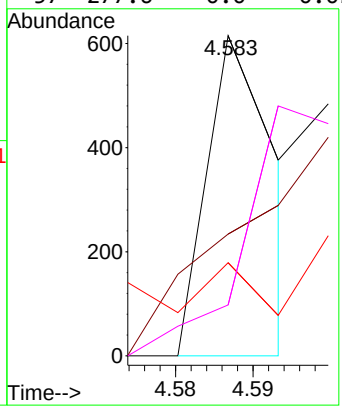


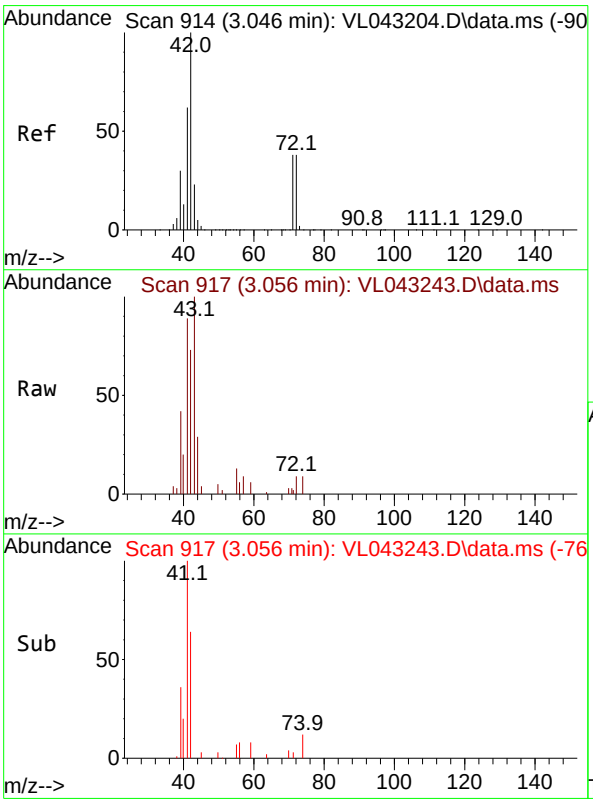
#40
1,4-Dioxane
Concen: 0.043 ppbv
RT: 4.583 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 88 Resp: 192

Ion	Ratio	Lower	Upper
88	100		
58	0.0	63.0	94.6#
43	207.3	32.5	48.7#
57	277.6	0.0	0.0#

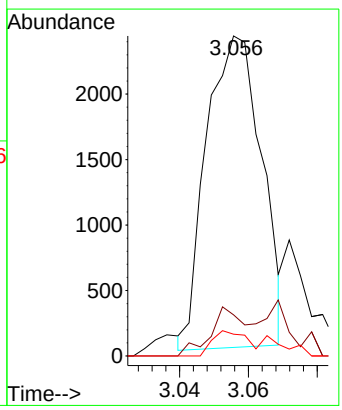


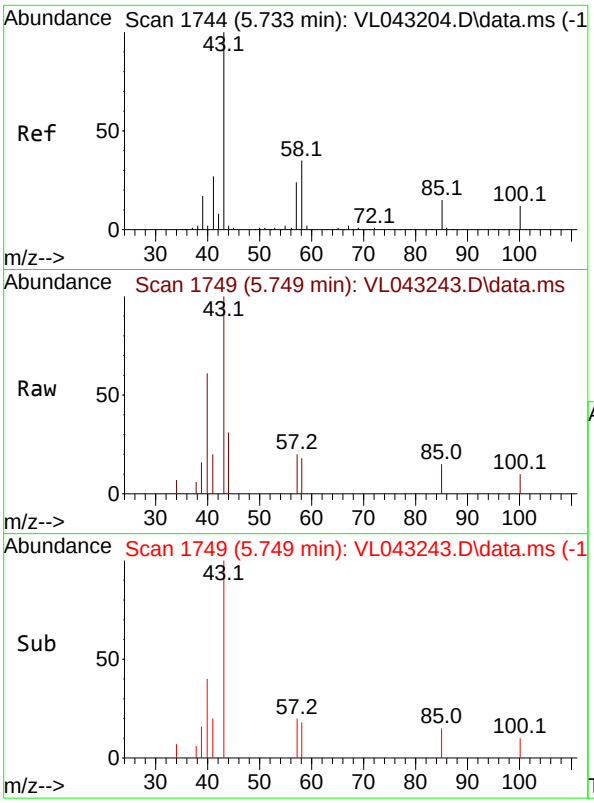


#41
Tetrahydrofuran
Concen: 0.240 ppbv
RT: 3.056 min Scan# 917
Delta R.T. 0.010 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 42 Resp: 2653

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.6	46.0#
71	7.8	30.5	45.7#



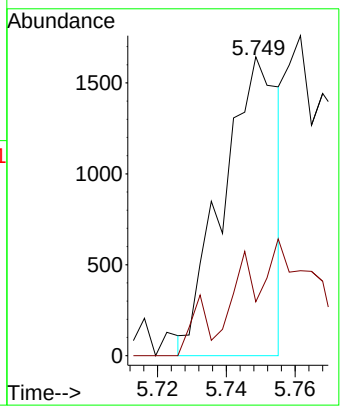


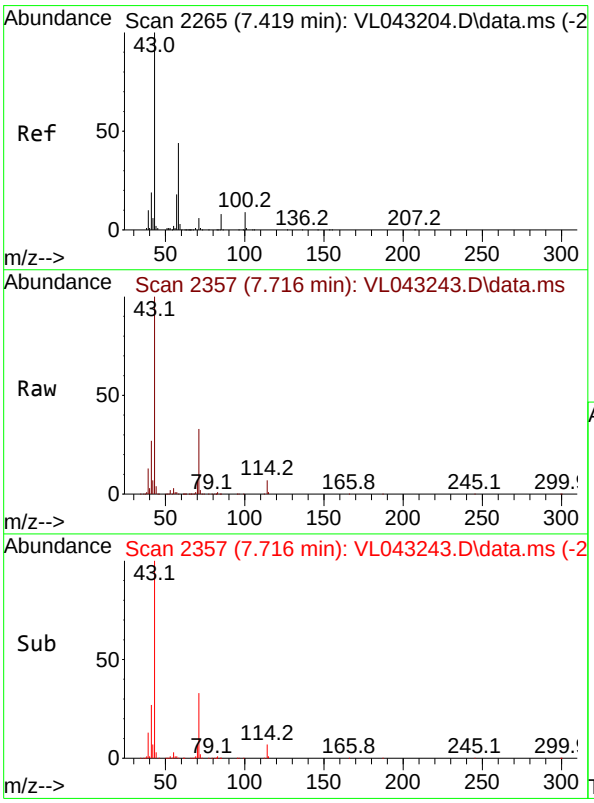
#50
4-Methyl-2-Pentanone
Concen: 0.065 ppbv
RT: 5.749 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 43 Resp: 1825

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#

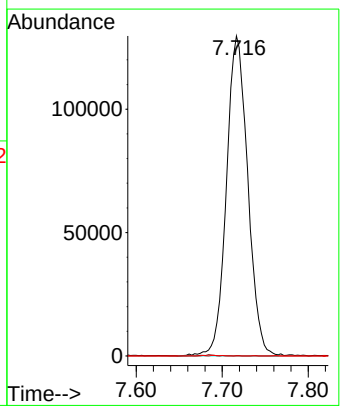


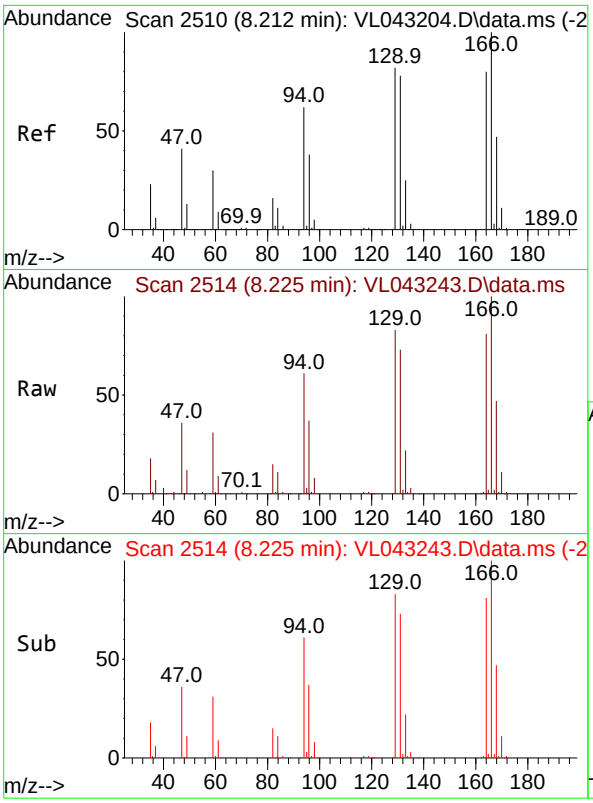


#51
2-Hexanone
Concen: 10.201 ppbv
RT: 7.716 min Scan# 2357
Delta R.T. 0.298 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 43 Resp: 223523

Ion	Ratio	Lower	Upper
43	100		
58	0.1	38.4	57.6#
98	0.0	0.0	0.0#



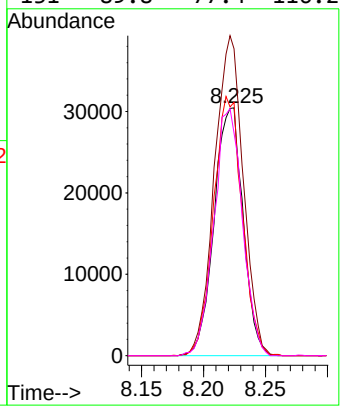


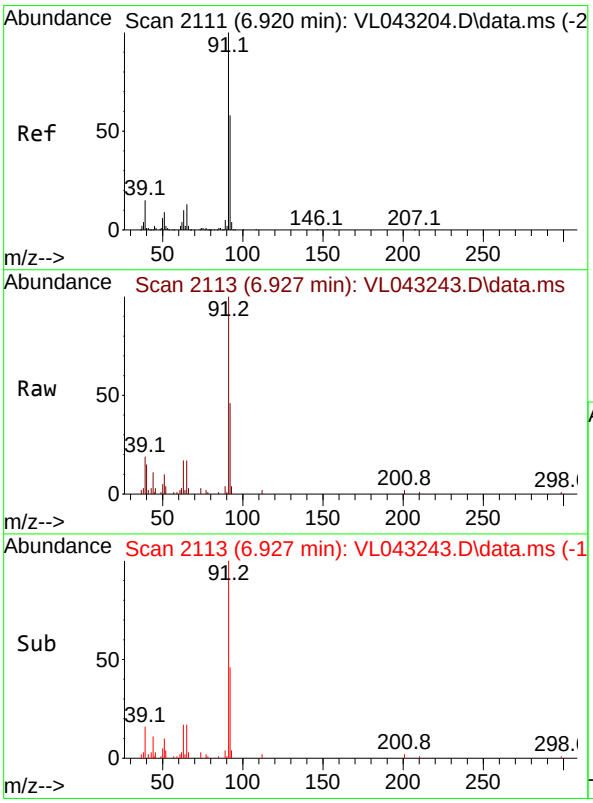
#52
Tetrachloroethene
Concen: 4.885 ppbv
RT: 8.225 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion:164 Resp: 49381

Ion	Ratio	Lower	Upper
164	100		
166	123.8	99.4	149.2
129	102.2	81.8	122.8
131	89.8	77.4	116.2

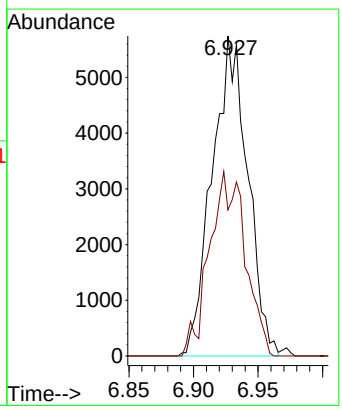


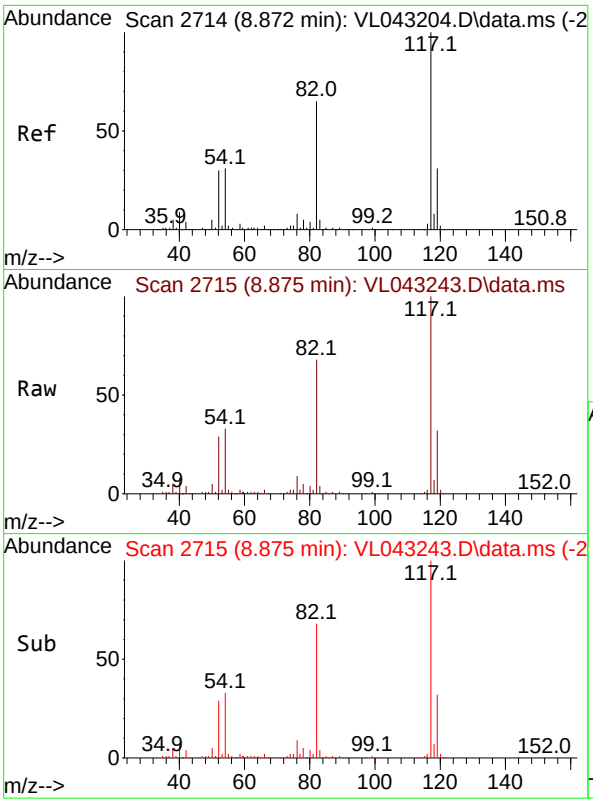


#53
Toluene
Concen: 0.341 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 91 Resp: 10983

Ion	Ratio	Lower	Upper
91	100		
92	58.2	47.4	71.0



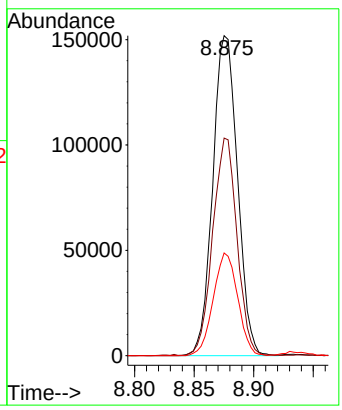


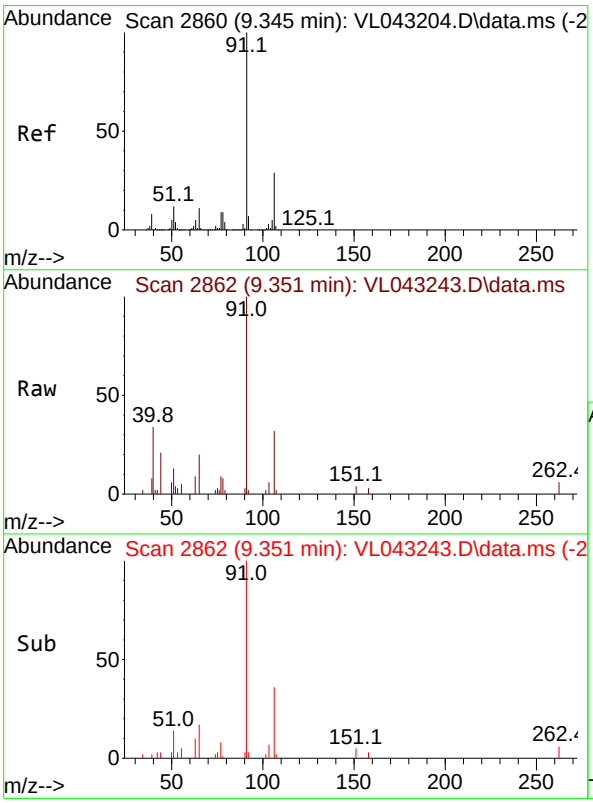
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion:117 Resp: 218981

Ion	Ratio	Lower	Upper
117	100		
82	66.9	56.1	84.1
119	31.8	25.0	37.6

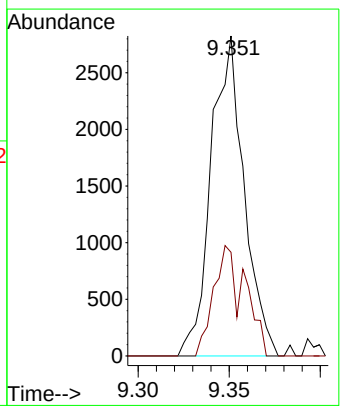


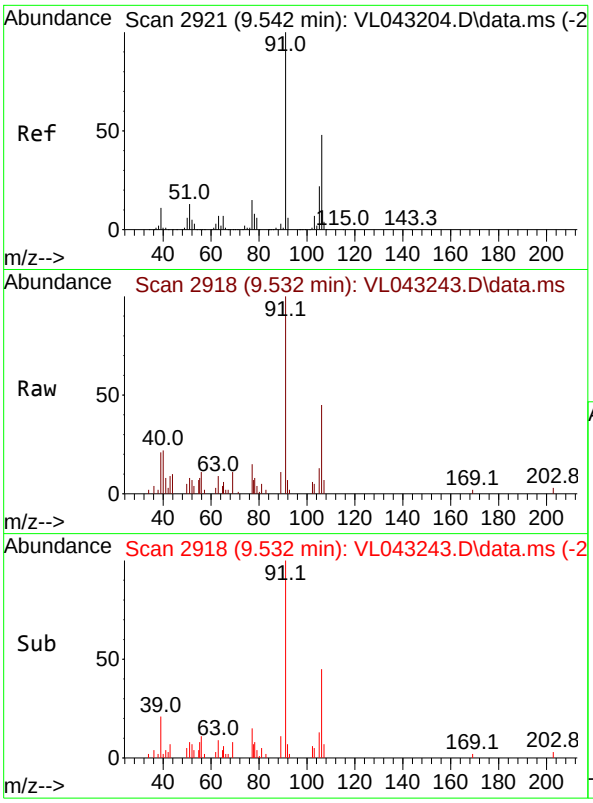


#58
Ethyl Benzene
Concen: 0.084 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 91 Resp: 3551

Ion	Ratio	Lower	Upper
91	100		
106	32.4	22.8	34.2



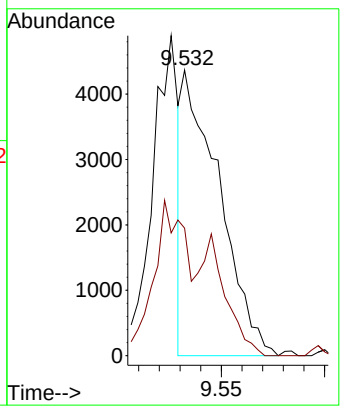


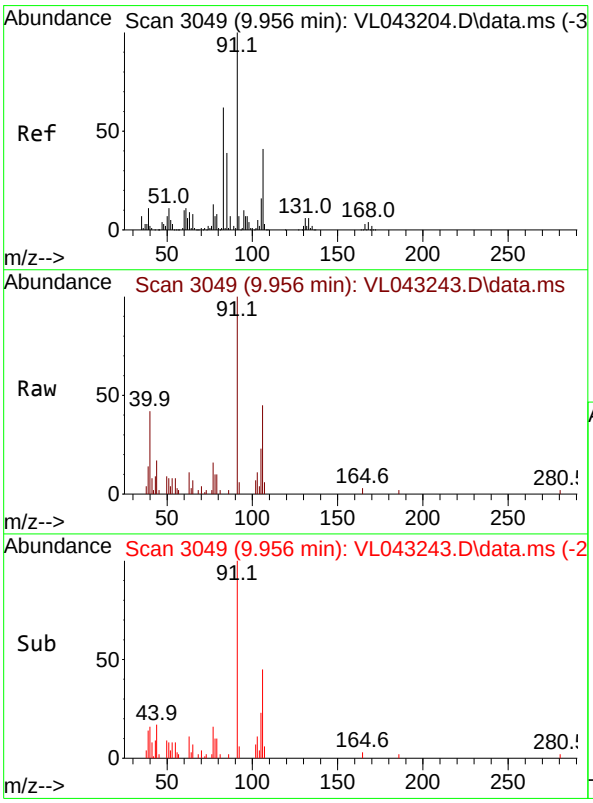
#59
m/p-Xylene
Concen: 0.161 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 91 Resp: 5425

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

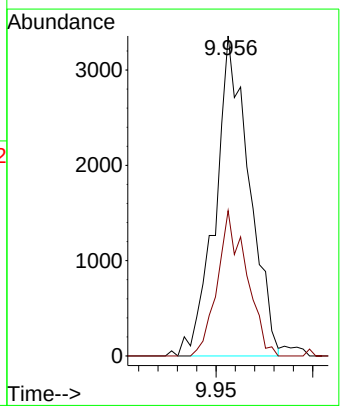


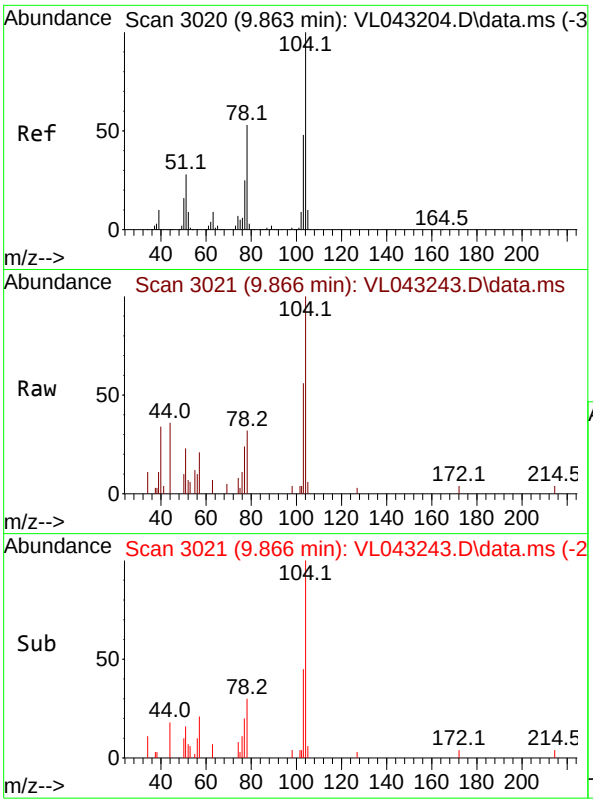


#60
o-Xylene
Concen: 0.121 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 91 Resp: 4090

Ion	Ratio	Lower	Upper
91	100		
106	39.0	20.9	62.8



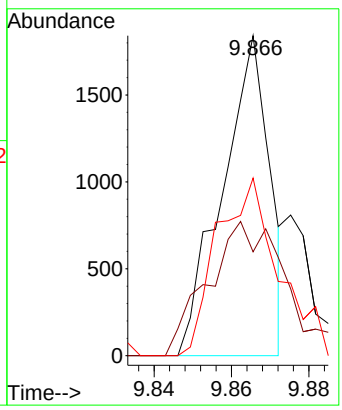


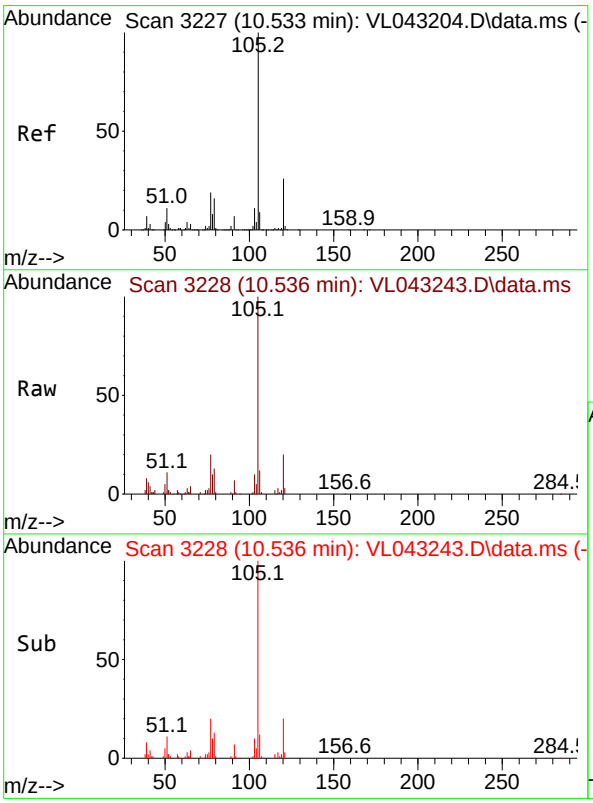
#61
Styrene
Concen: 0.106 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion:104 Resp: 1564

Ion	Ratio	Lower	Upper
104	100		
78	68.6	42.1	63.1#
103	72.7	37.2	55.8#

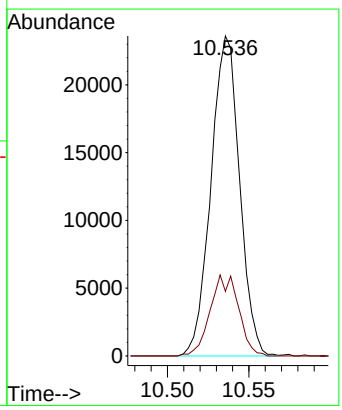


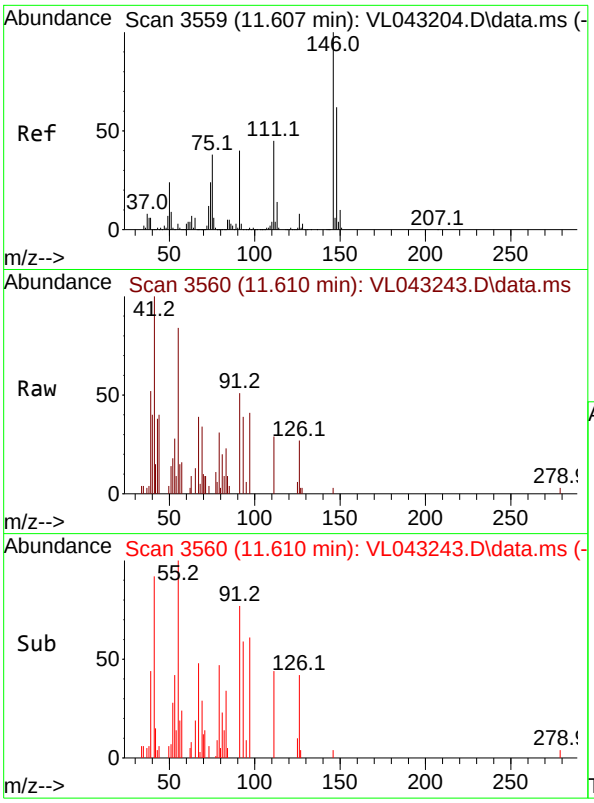


#62
Isopropylbenzene
Concen: 0.476 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion:105 Resp: 28762

Ion	Ratio	Lower	Upper
105	100		
120	25.2	19.8	29.8



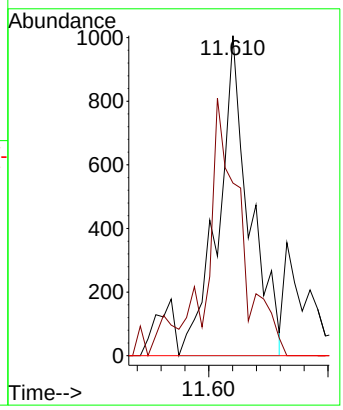


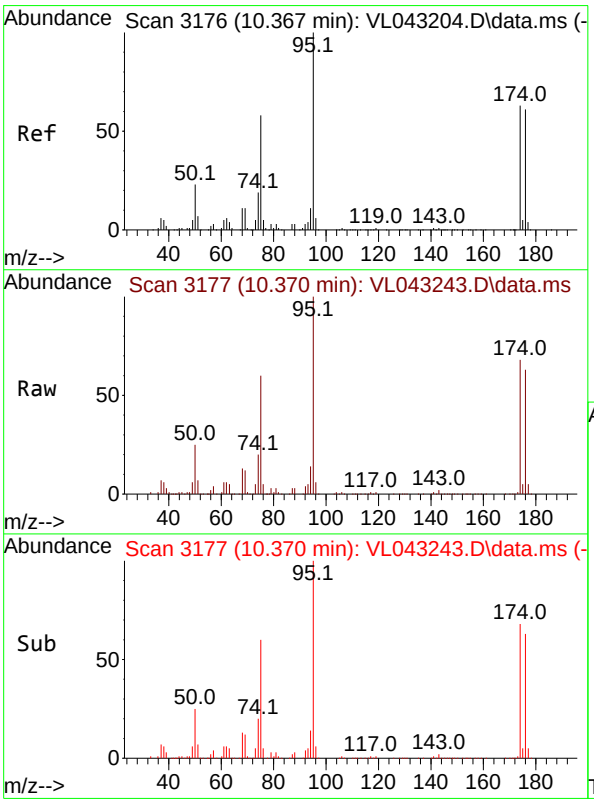
#66
Benzyl Chloride
Concen: 0.168 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion: 91 Resp: 918

Ion	Ratio	Lower	Upper
91	100		
126	90.6	14.4	21.6#
128	0.0	4.6	6.8#

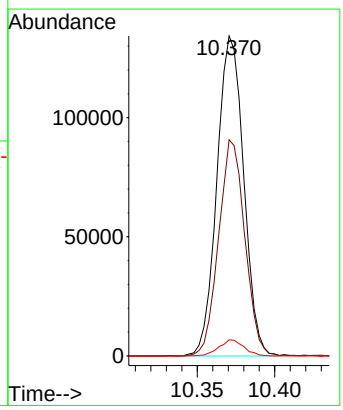


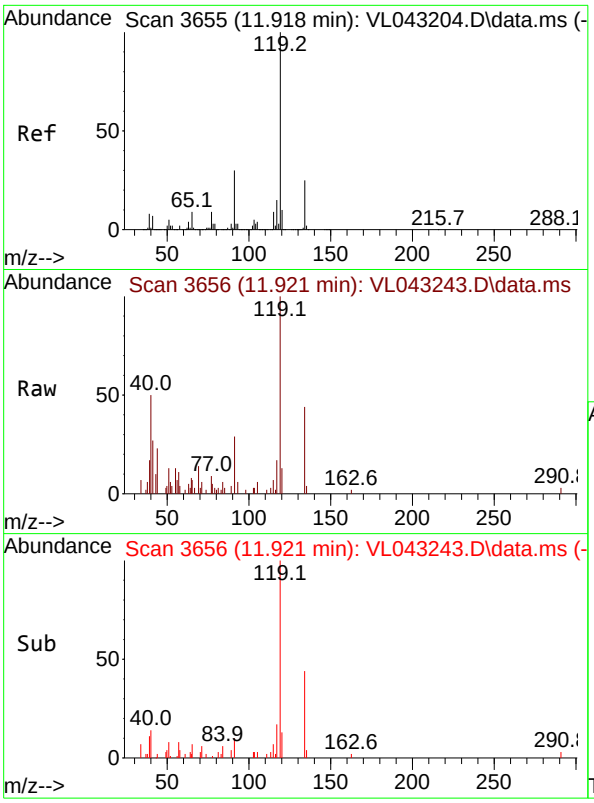


#68
1-Bromo-4-Fluorobenzene
Concen: 10.044 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion: 95 Resp: 161224

Ion	Ratio	Lower	Upper
95	100		
174	66.4	50.2	75.2
175	4.8	4.1	6.1



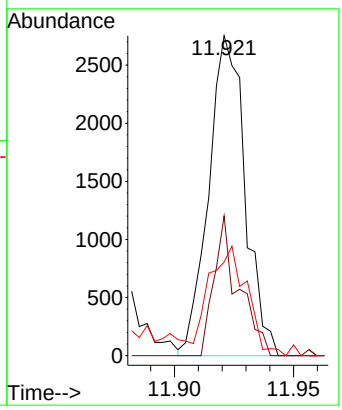


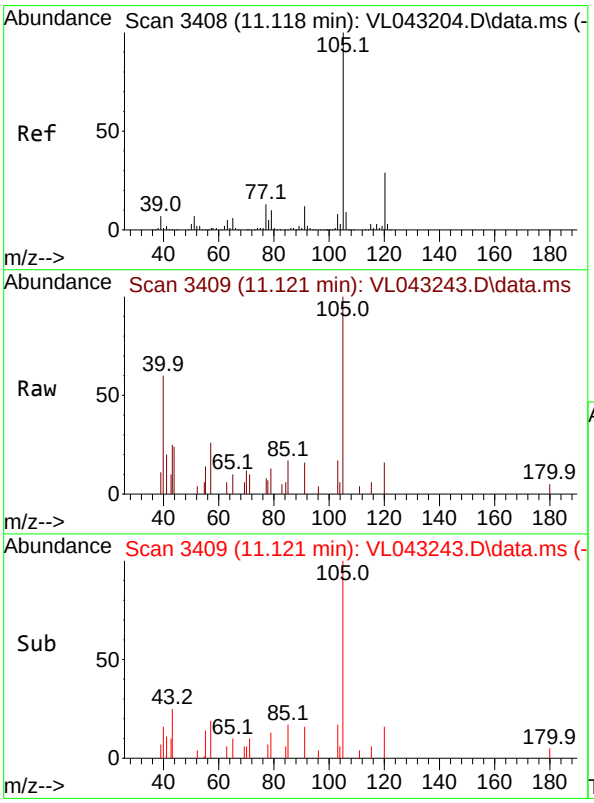
#69
p-Isopropyltoluene
Concen: 0.046 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion:119 Resp: 2923

Ion	Ratio	Lower	Upper
119	100		
134	30.0	20.2	30.2
91	35.1	23.8	35.8

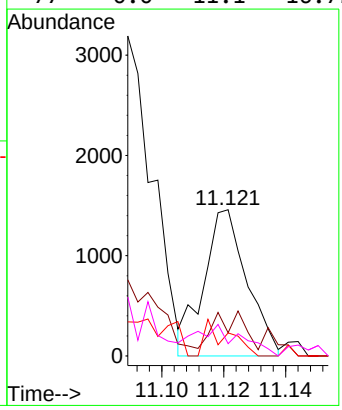


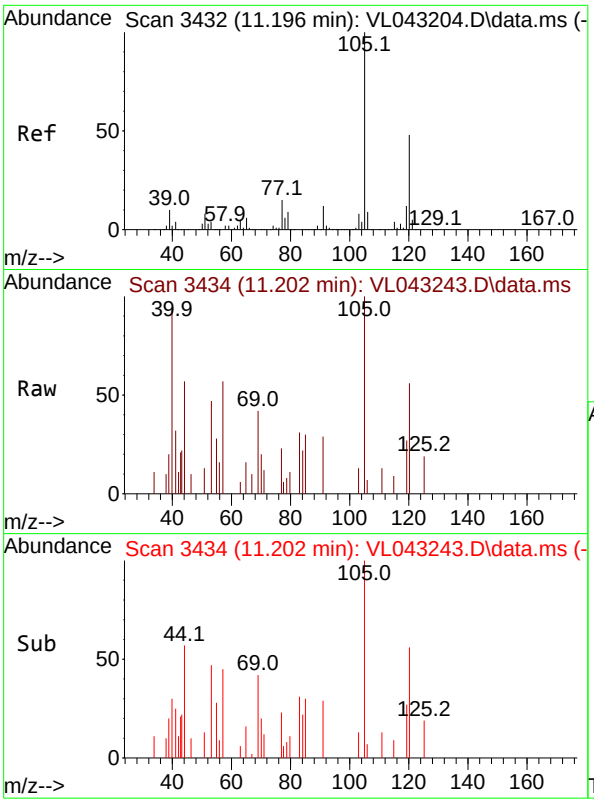


#72
4-Ethyltoluene
Concen: 0.034 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion:105 Resp: 1416

Ion	Ratio	Lower	Upper
105	100		
120	30.2	23.8	35.8
91	0.0	10.3	15.5#
77	0.0	11.1	16.7#



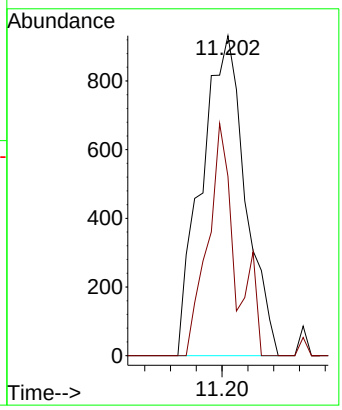


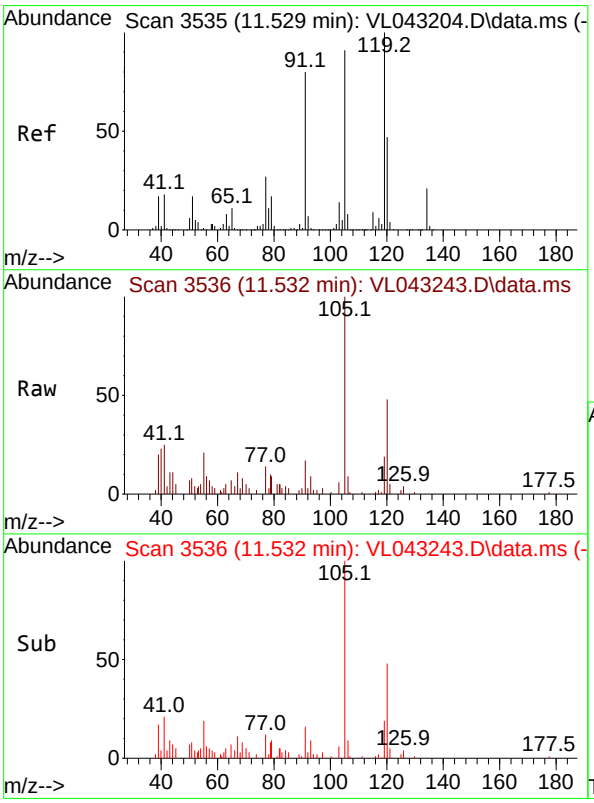
#73
1,3,5-Trimethylbenzene
Concen: 0.032 ppbv
RT: 11.202 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion:105 Resp: 1102

Ion	Ratio	Lower	Upper
105	100		
120	56.0	38.6	57.8

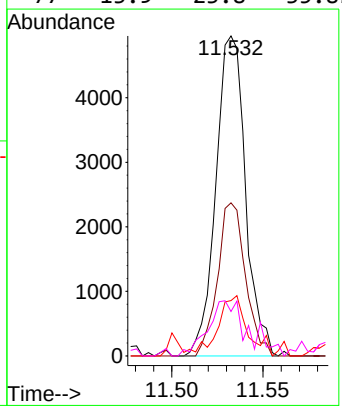


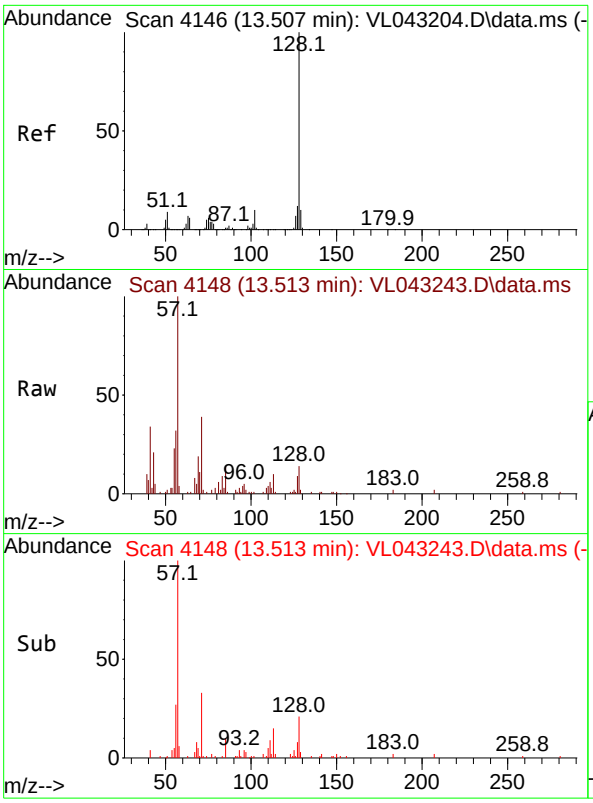


#74
1,2,4-Trimethylbenzene
Concen: 0.149 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Tgt Ion:105 Resp: 5600

Ion	Ratio	Lower	Upper
105	100		
120	47.8	41.7	62.5
91	15.7	70.0	105.0#
77	13.9	23.8	35.8#



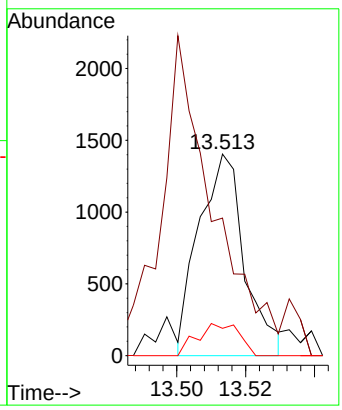


#79
Naphthalene
Concen: 0.039 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043243.D
Acq: 19 Nov 2025 17:13

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1

Tgt Ion:128 Resp: 1296

Ion	Ratio	Lower	Upper
128	100		
127	61.5	9.9	14.9#
129	14.5	8.4	12.6#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043244.D
Acq On : 19 Nov 2025 17:47
Operator : SY/MD
Sample : Q3626-10 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Quant Time: Nov 20 00:08:08 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	106615	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	284605	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	227663	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	166196	9.959	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3851	0.256	ppbv		99
3) Chlorodifluoromethane	1.476	51	3766	0.255	ppbv	#	78
4) Chloromethane	1.531	50	789	0.140	ppbv	#	45
9) Propene	1.486	41	4977	0.793	ppbv	#	1
10) Heptane	4.972	43	1254	0.067	ppbv	#	33
11) Trichlorofluoromethane	1.874	101	2218	0.152	ppbv	#	62
13) Ethanol	1.719	45	28478	12.896	ppbv		97
15) Acetone	1.832	43	198363	13.392	ppbv		100
16) 1,3-Butadiene	1.599	39	1793	0.272	ppbv	#	24
17) tert-Butyl alcohol	2.043	59	2623	0.135	ppbv	#	87
19) Isopropyl Alcohol	1.884	45	62615	7.481	ppbv	#	30
20) Methylene Chloride	2.062	84	4407	0.244	ppbv	#	82
23) Vinyl Acetate	2.447	43	3344	0.187	ppbv	#	66
25) Ethyl Acetate	2.823	43	6305	0.197	ppbv	#	83
26) Hexane	2.819	57	6594	0.471	ppbv	#	51
27) Carbon Disulfide	2.149	76	6722	0.470	ppbv	#	1
28) Methyl tert-Butyl Ether	2.405	73	513	0.075	ppbv	#	50
34) 2-Butanone	2.551	43	13918	0.693	ppbv		96
36) Benzene	3.648	78	14120	0.518	ppbv	#	88
39) 1,2-Dichloropropane	3.949	63	73219	7.340	ppbv	#	24
41) Tetrahydrofuran	3.059	42	482	0.043	ppbv	#	49
52) Tetrachloroethene	8.215	164	13878	1.369	ppbv		92
53) Toluene	6.920	91	3666	0.114	ppbv	#	28
56) 1,1,1,2-Tetrachloroethane	8.927	131	1768	0.106	ppbv	#	1
58) Ethyl Benzene	9.348	91	2502	0.057	ppbv	#	84
59) m/p-Xylene	9.539	91	2212	0.063	ppbv	#	31
60) o-Xylene	9.956	91	3418	0.097	ppbv		96
61) Styrene	9.869	104	599	0.039	ppbv		92
62) Isopropylbenzene	10.529	105	18013	0.287	ppbv		93
66) Benzyl Chloride	11.604	91	1036	0.182	ppbv	#	1
67) sec-Butylbenzene	11.765	105	7294	0.093	ppbv	#	44
69) p-Isopropyltoluene	11.918	119	3337	0.050	ppbv	#	80
74) 1,2,4-Trimethylbenzene	11.526	105	5794	0.148	ppbv	#	48

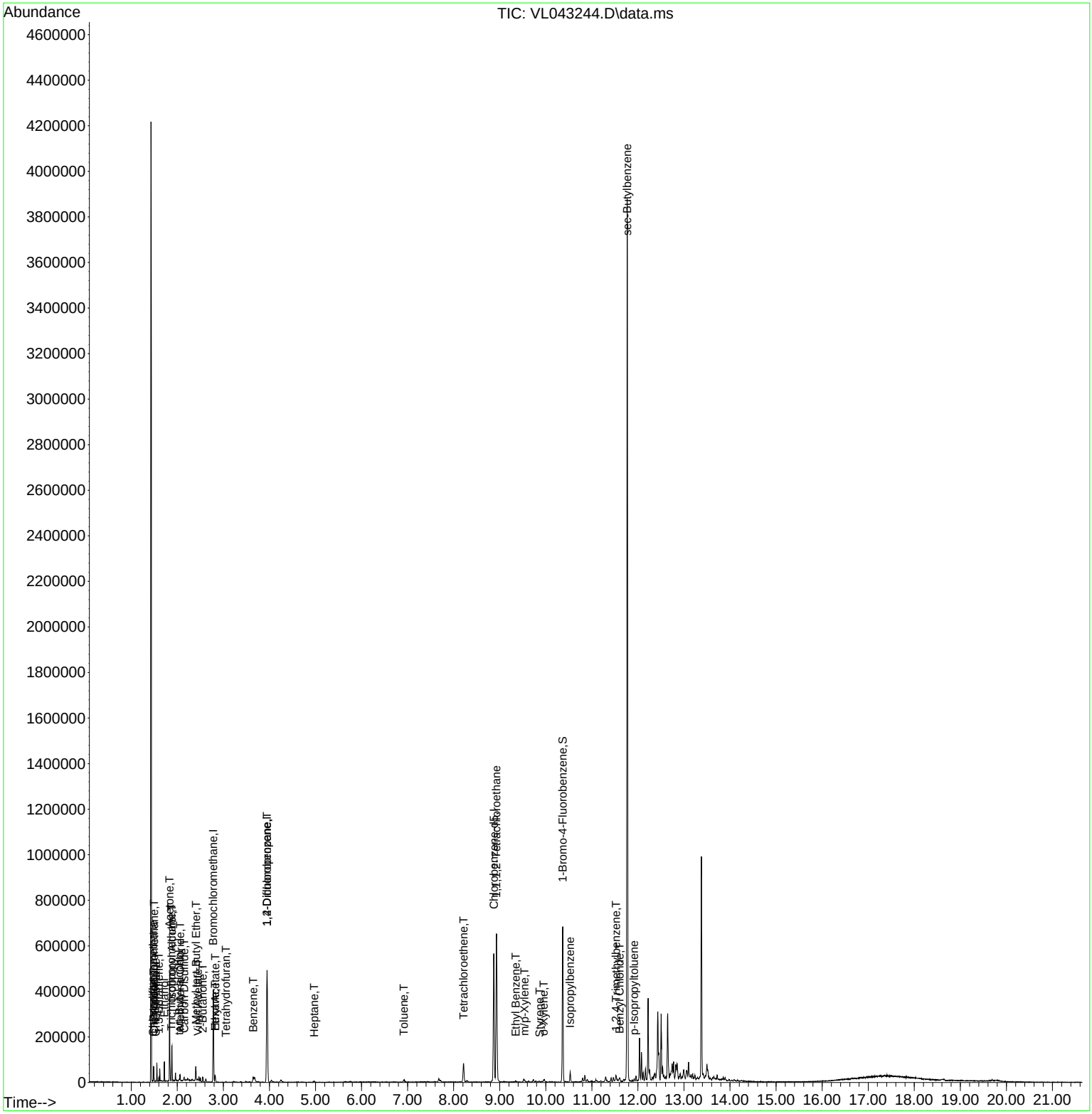
(#) = qualifier out of range (m) = manual integration (+) = signals summed

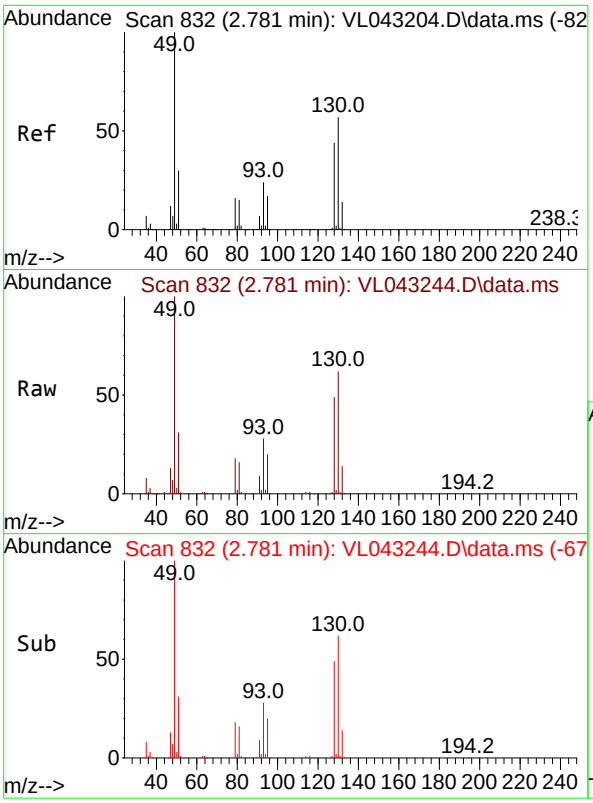
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043244.D
Acq On : 19 Nov 2025 17:47
Operator : SY/MD
Sample : Q3626-10 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Quant Time: Nov 20 00:08:08 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



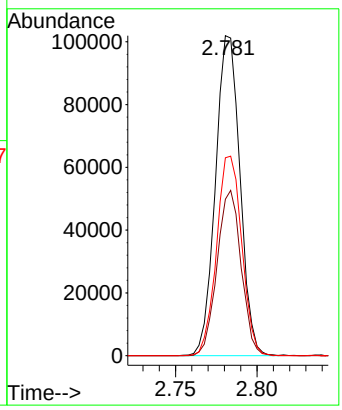


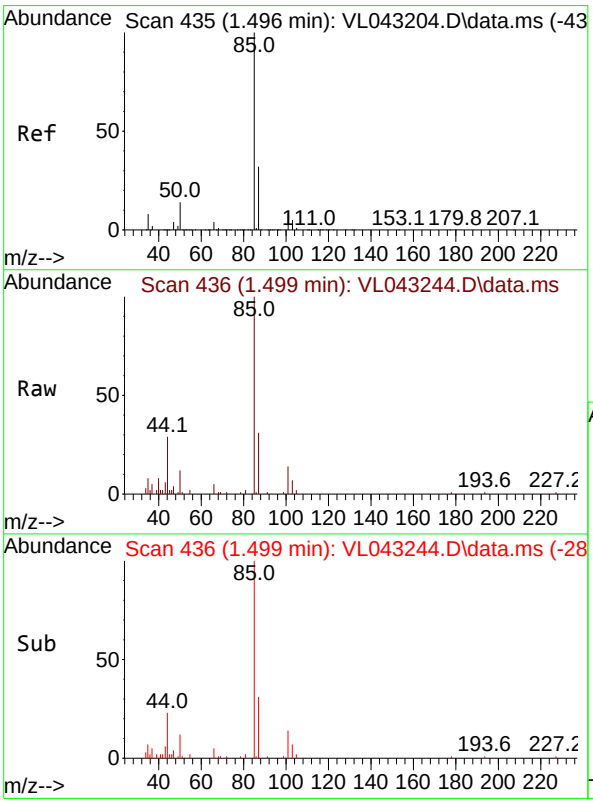
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 49 Resp: 106615

Ion	Ratio	Lower	Upper
49	100		
128	50.7	23.0	69.0
130	64.0	29.9	89.7

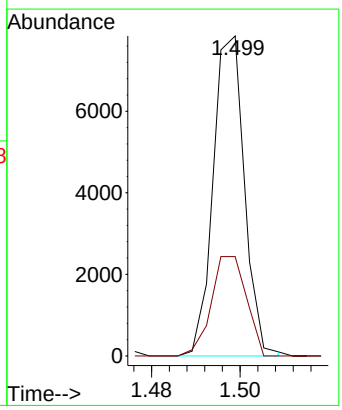


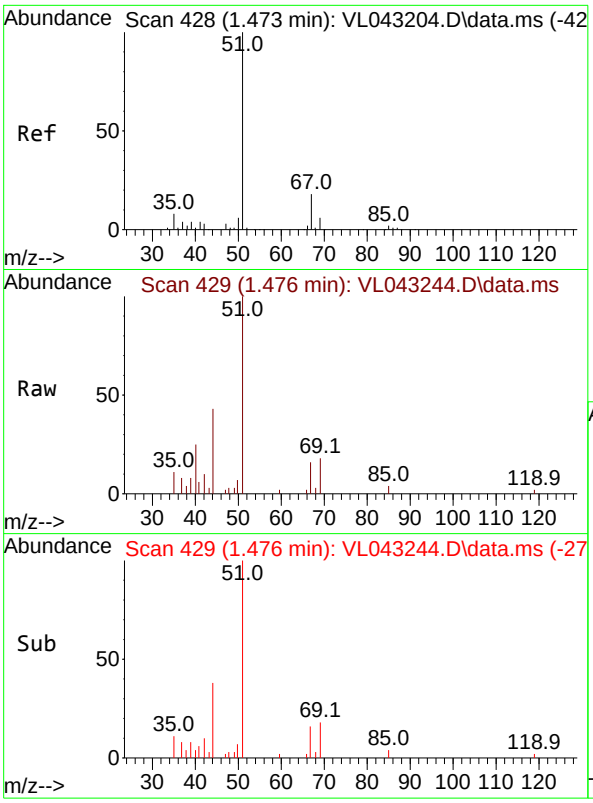


#2
Dichlorodifluoromethane
Concen: 0.256 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 85 Resp: 3851

Ion	Ratio	Lower	Upper
85	100		
87	31.0	25.4	38.2



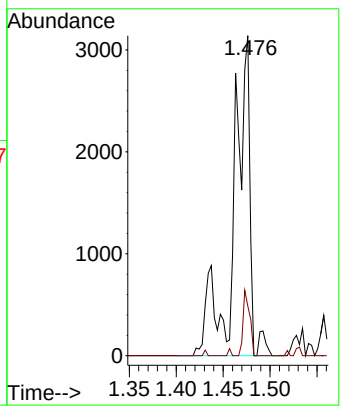


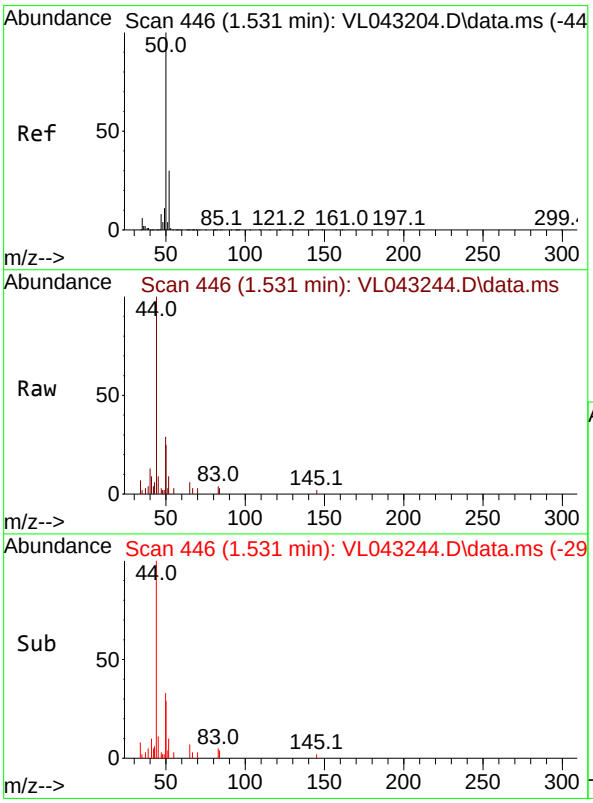
#3
Chlorodifluoromethane
Concen: 0.255 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 51 Resp: 3766

Ion	Ratio	Lower	Upper
51	100		
67	8.7	14.9	22.3#

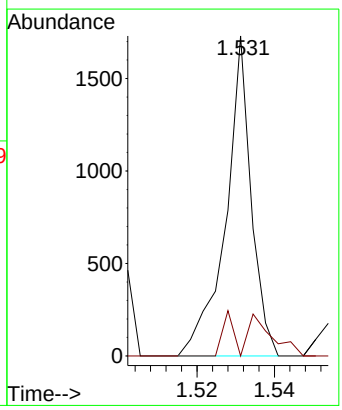


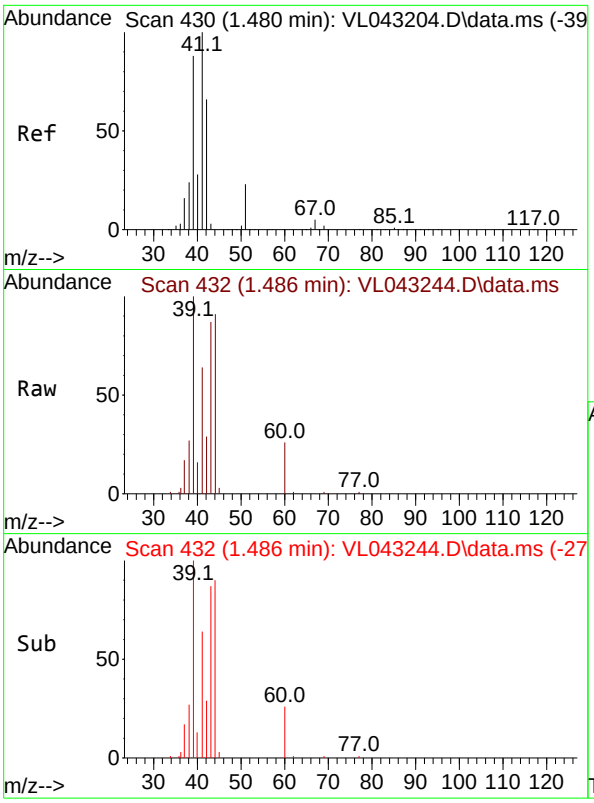


#4
Chloromethane
Concen: 0.140 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 50 Resp: 789

Ion	Ratio	Lower	Upper
50	100		
52	0.0	24.1	36.1#



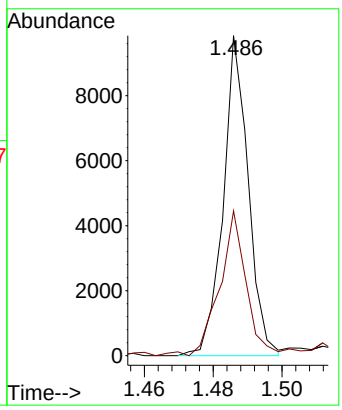


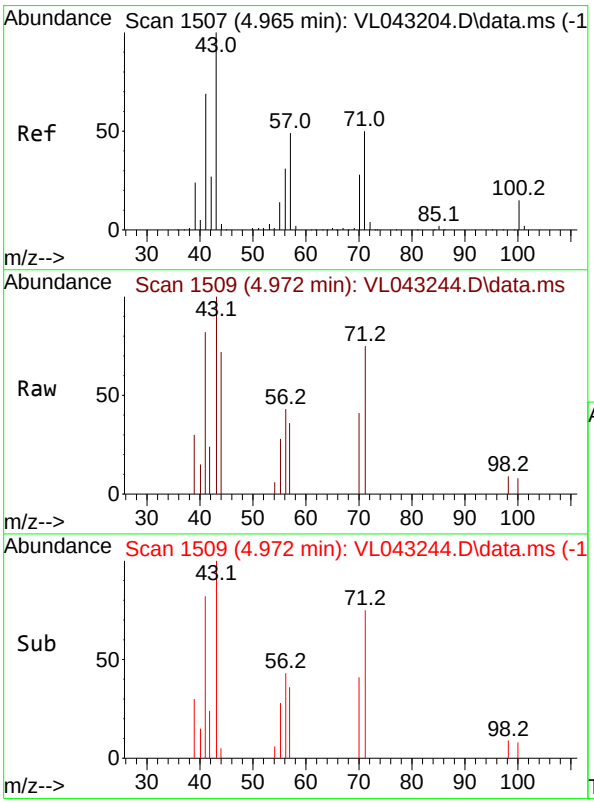
#9
Propene
Concen: 0.793 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 41 Resp: 4977

Ion	Ratio	Lower	Upper
41	100		
42	49.5	3.7	5.5#

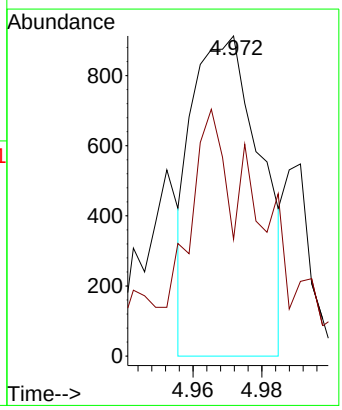


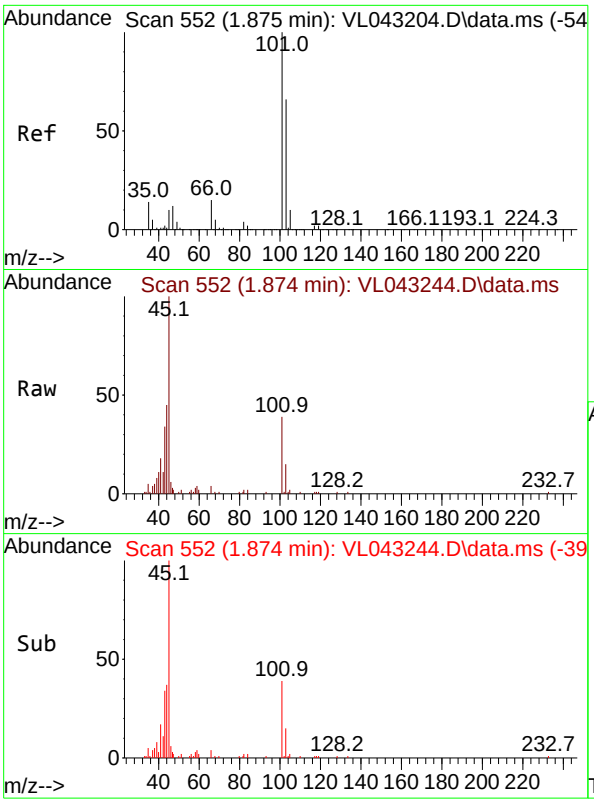


#10
Heptane
Concen: 0.067 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 43 Resp: 1254

Ion	Ratio	Lower	Upper
43	100		
57	95.9	39.7	59.5#



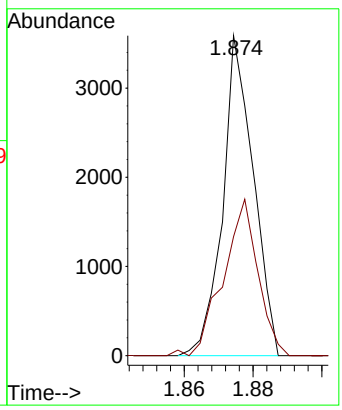


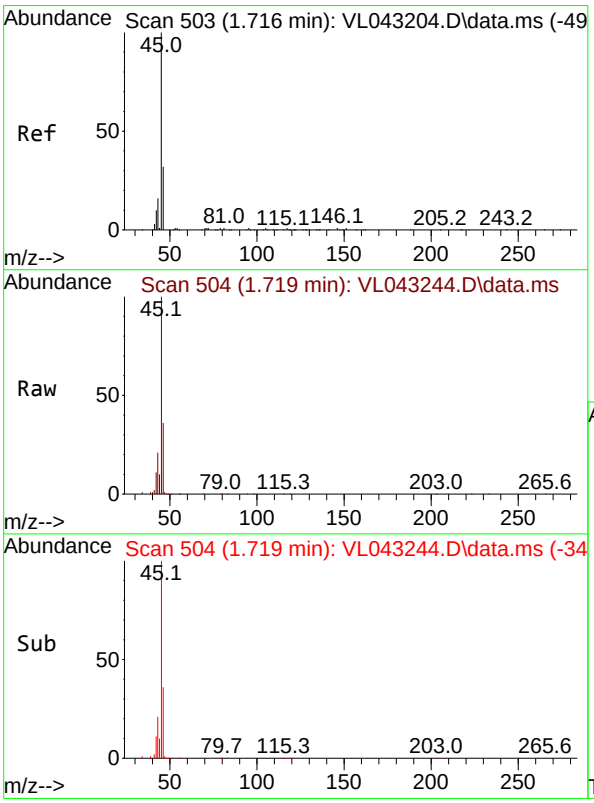
#11
Trichlorofluoromethane
Concen: 0.152 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion:101 Resp: 2218

Ion	Ratio	Lower	Upper
101	100		
103	35.5	52.6	79.0#

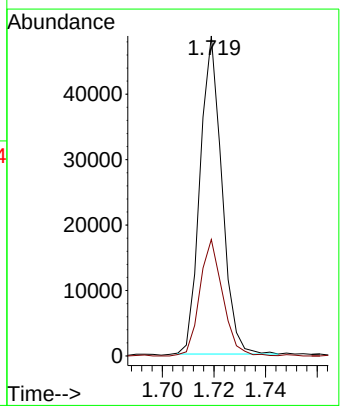


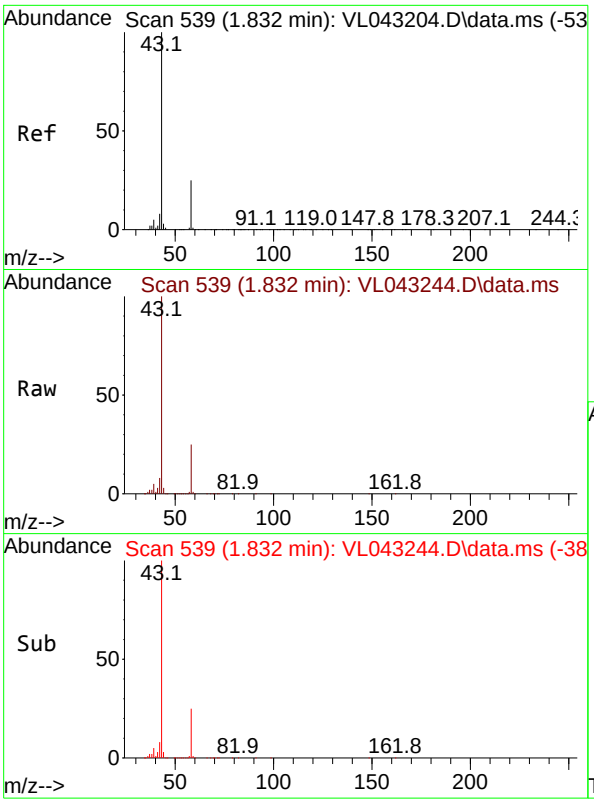


#13
Ethanol
Concen: 12.896 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 45 Resp: 28478

Ion	Ratio	Lower	Upper
45	100		
46	39.3	15.0	59.8



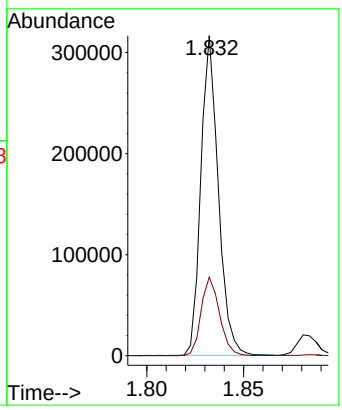


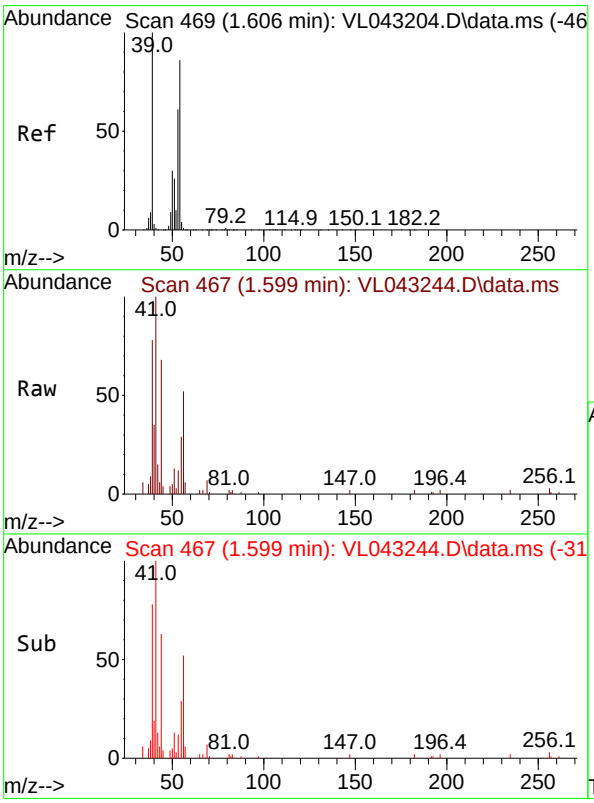
#15
Acetone
Concen: 13.392 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 43 Resp: 198363

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1

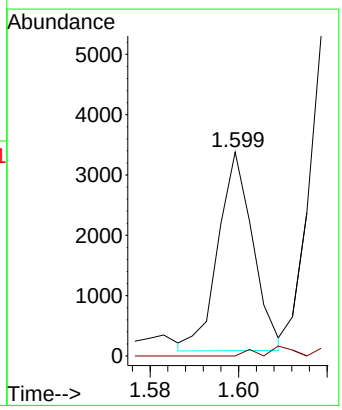


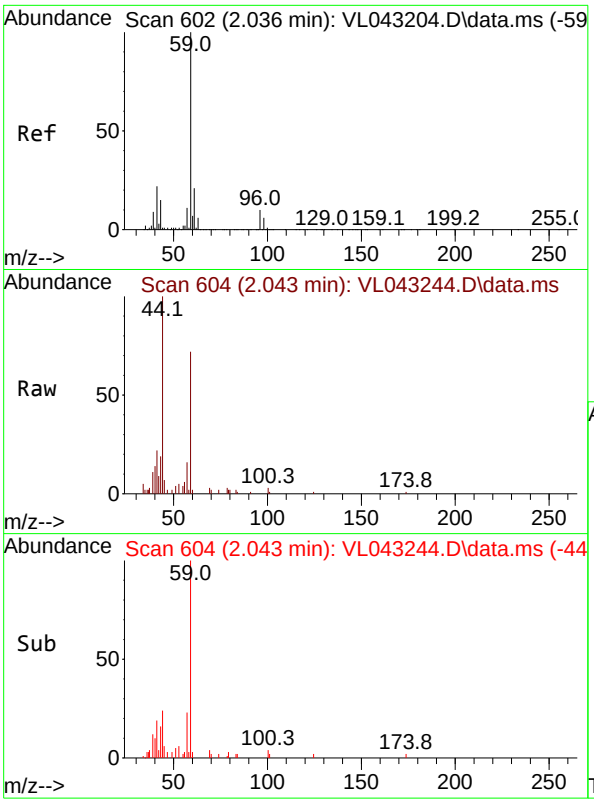


#16
1,3-Butadiene
Concen: 0.272 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 39 Resp: 1793

Ion	Ratio	Lower	Upper
39	100		
54	9.8	59.4	89.2#



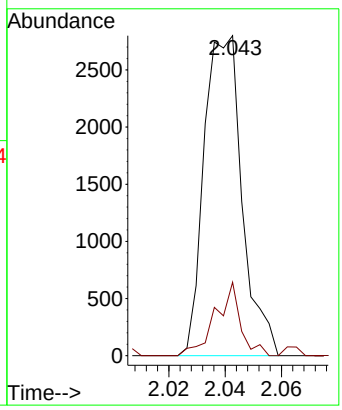


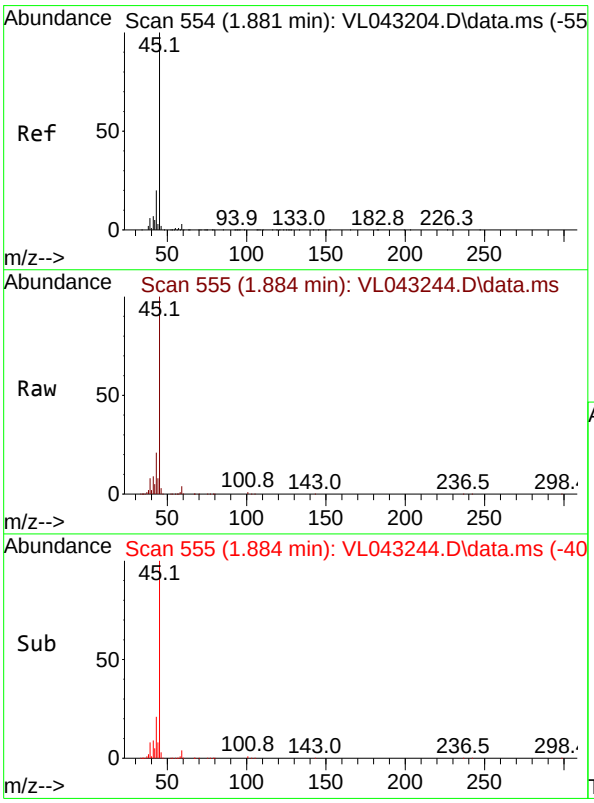
#17
tert-Butyl alcohol
Concen: 0.135 ppbv
RT: 2.043 min Scan# 6(
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 59 Resp: 2623

Ion	Ratio	Lower	Upper
59	100		
57	16.2	9.0	13.4#

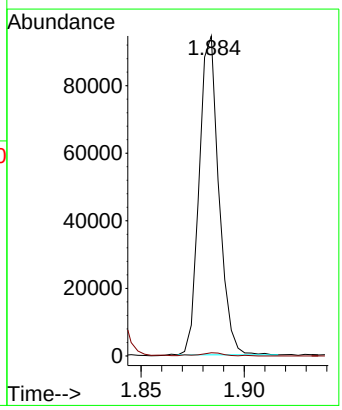


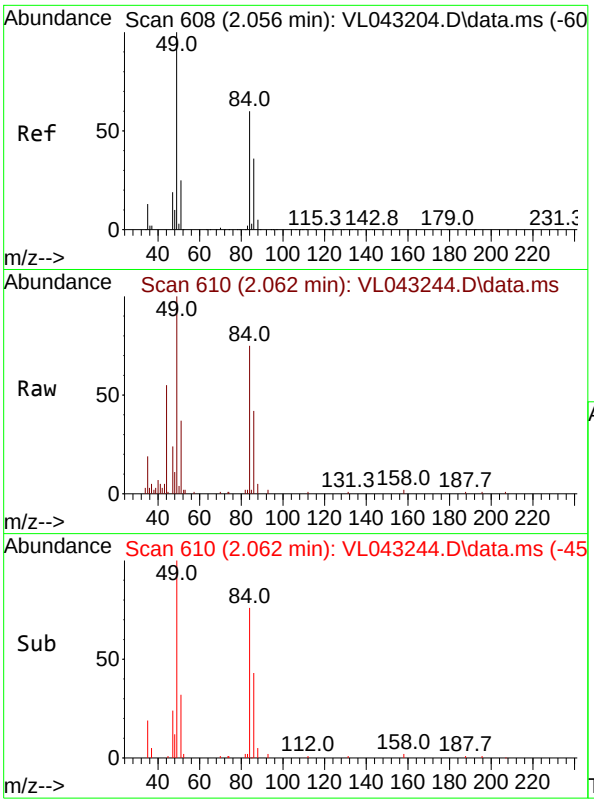


#19
Isopropyl Alcohol
Concen: 7.481 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 45 Resp: 62615

Ion	Ratio	Lower	Upper
45	100		
58	82.2	31.3	46.9#



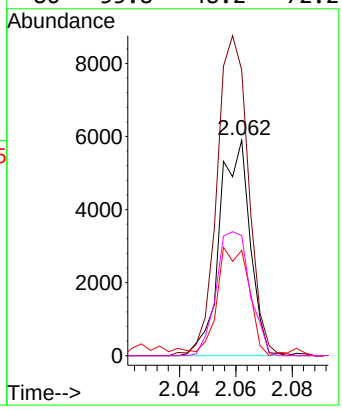


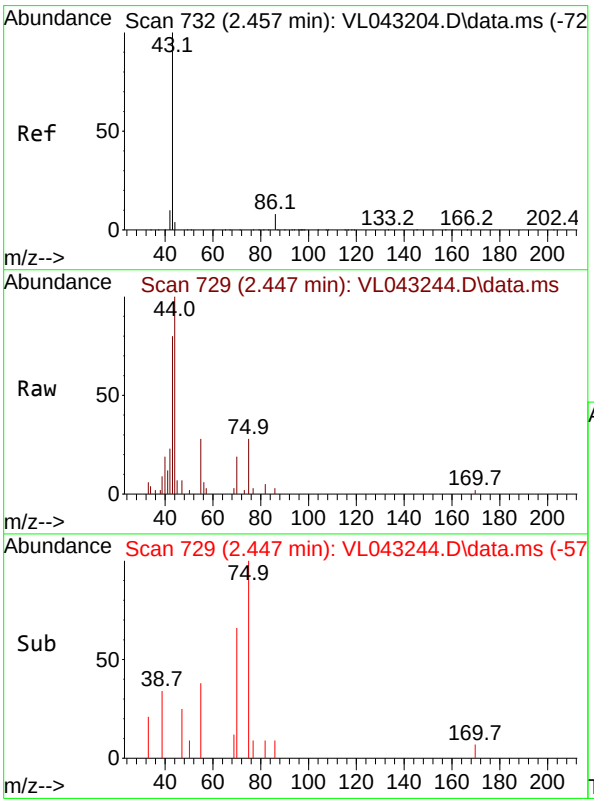
#20
Methylene Chloride
Concen: 0.244 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 84 Resp: 4407

Ion	Ratio	Lower	Upper
84	100		
49	131.6	132.9	199.3#
51	47.3	34.8	52.2
86	55.8	48.2	72.2

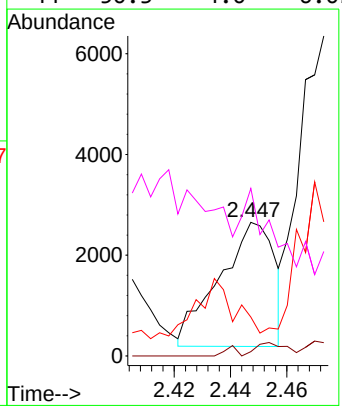


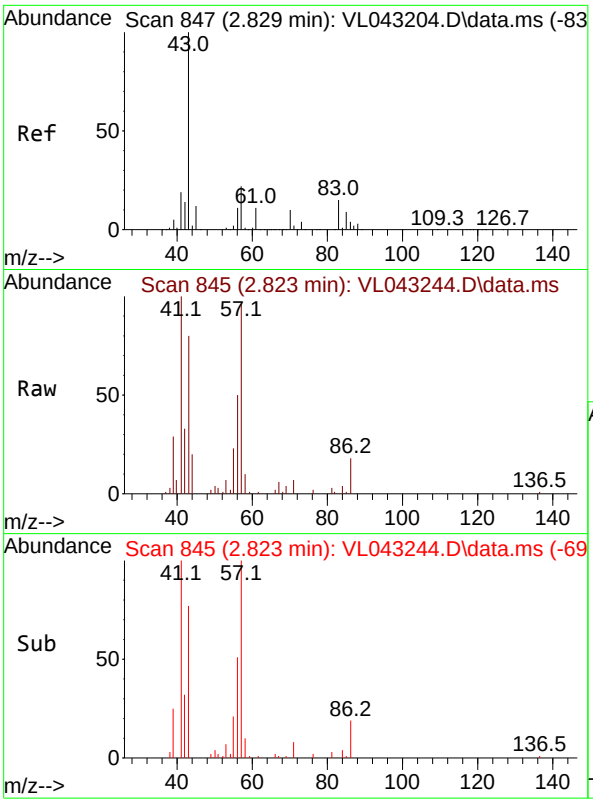


#23
Vinyl Acetate
Concen: 0.187 ppbv
RT: 2.447 min Scan# 729
Delta R.T. -0.010 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 43 Resp: 3344

Ion	Ratio	Lower	Upper
43	100		
86	3.7	6.2	9.2#
42	10.3	8.0	12.0
44	50.3	4.0	6.0#



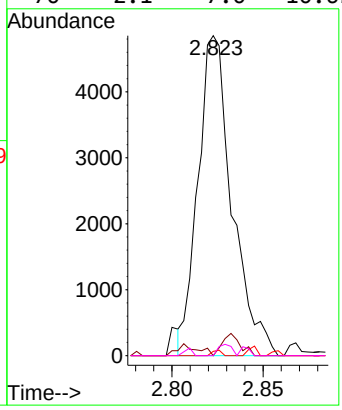


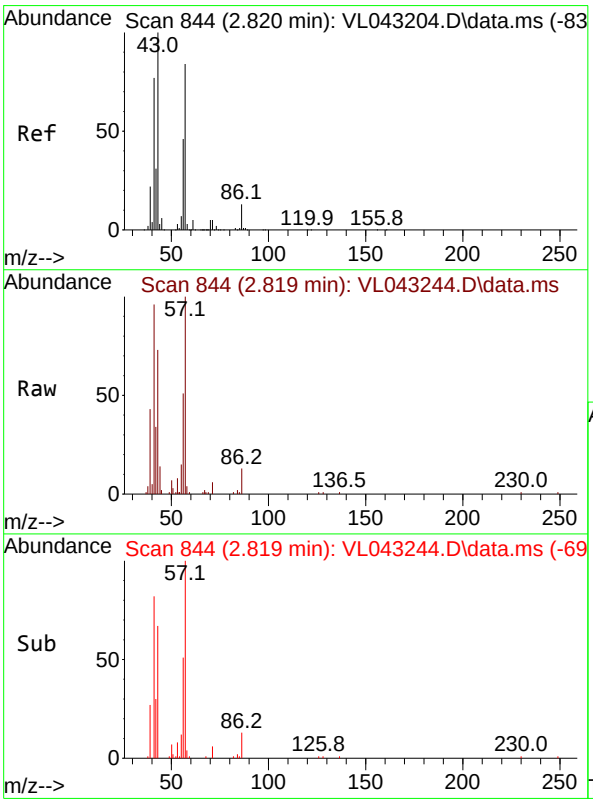
#25
Ethyl Acetate
Concen: 0.197 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 43 Resp: 6305

Ion	Ratio	Lower	Upper
43	100		
45	5.8	8.1	12.1#
61	1.1	7.0	10.4#
70	2.1	7.0	10.6#

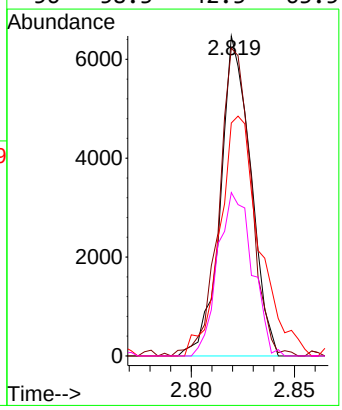


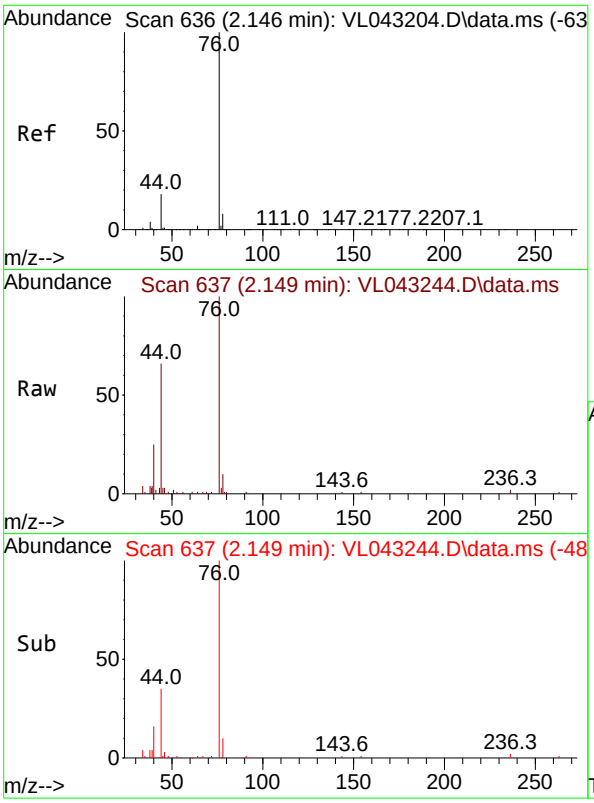


#26
Hexane
Concen: 0.471 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 57 Resp: 6594

Ion	Ratio	Lower	Upper
57	100		
41	101.9	74.6	111.8
43	100.7	179.0	268.4#
56	58.3	42.3	63.5



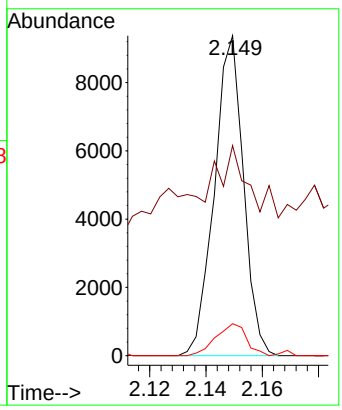


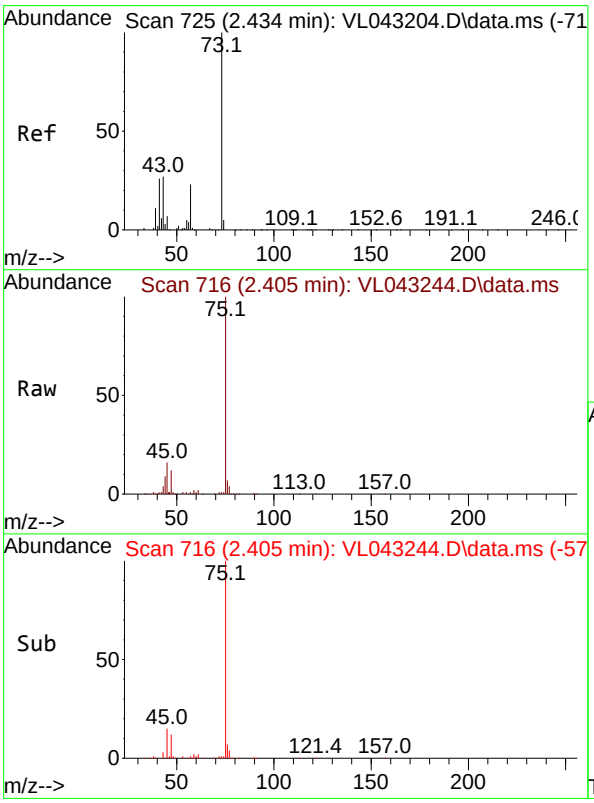
#27
Carbon Disulfide
Concen: 0.470 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 76 Resp: 6722

Ion	Ratio	Lower	Upper
76	100		
44	239.2	16.1	24.1#
78	11.2	9.6	14.4

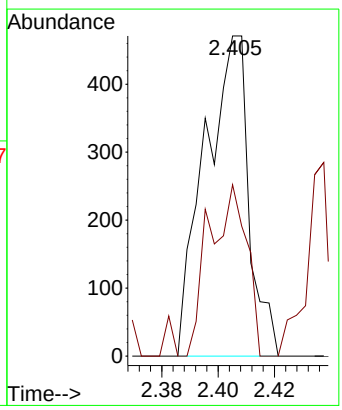


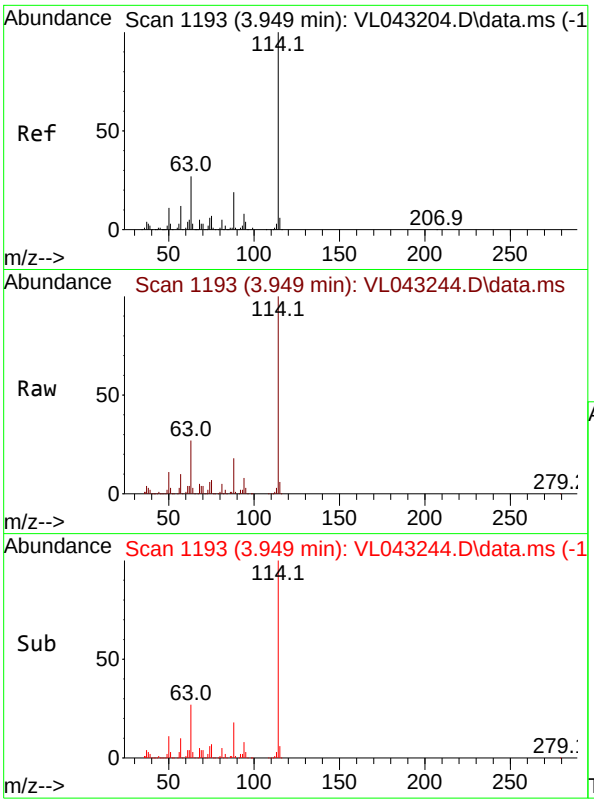


#28
Methyl tert-Butyl Ether
Concen: 0.075 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.029 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 73 Resp: 513

Ion	Ratio	Lower	Upper
73	100		
57	49.9	19.8	29.8#



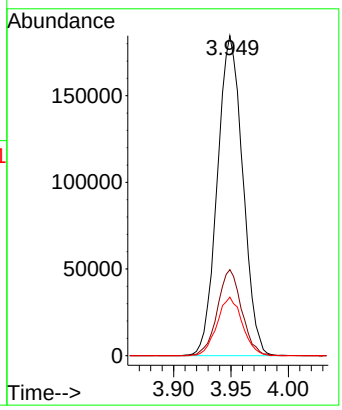


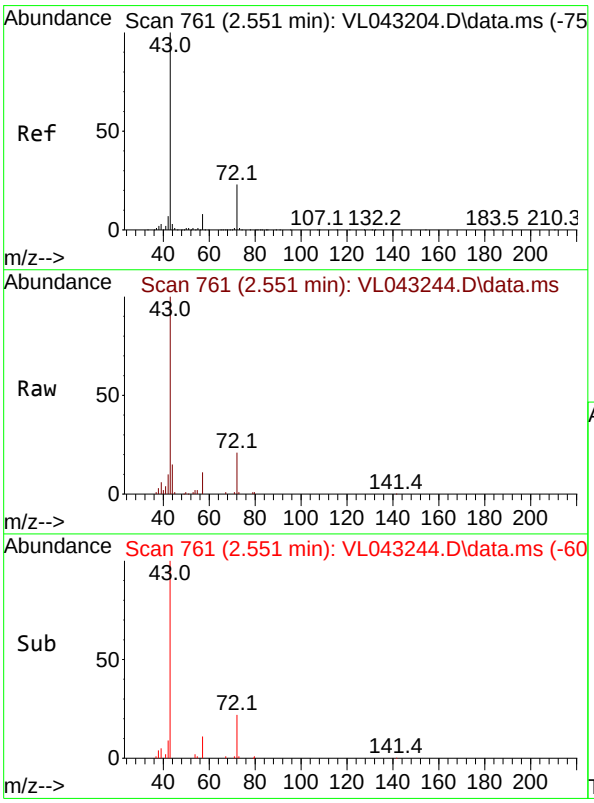
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion:114 Resp: 284605

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	18.2	14.9	22.3

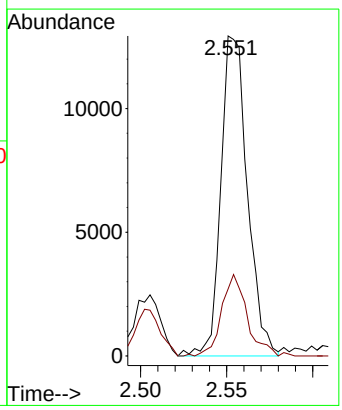


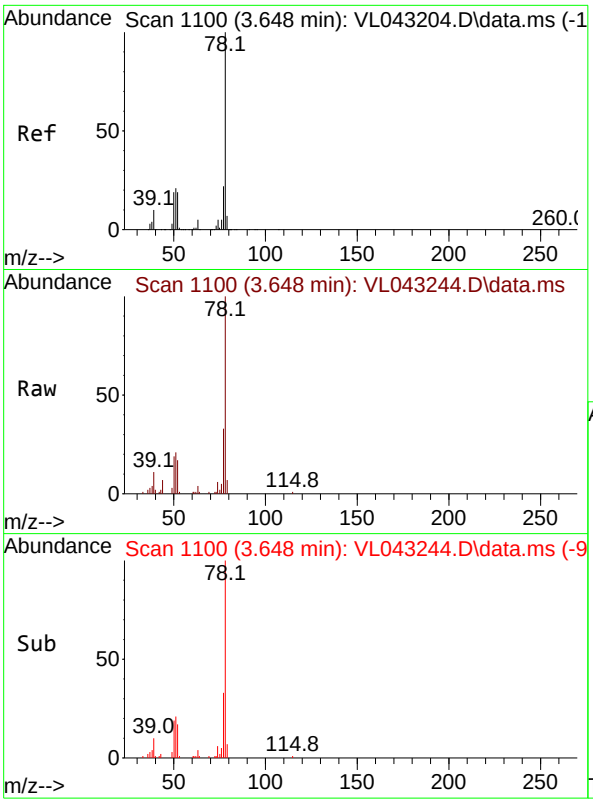


#34
2-Butanone
Concen: 0.693 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 43 Resp: 13918

Ion	Ratio	Lower	Upper
43	100		
72	24.5	18.1	27.1



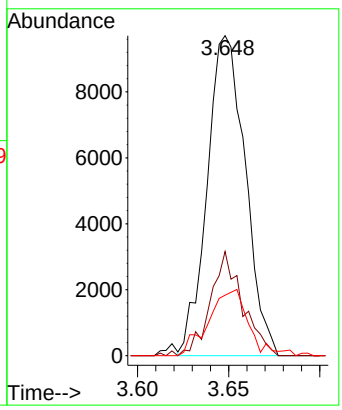


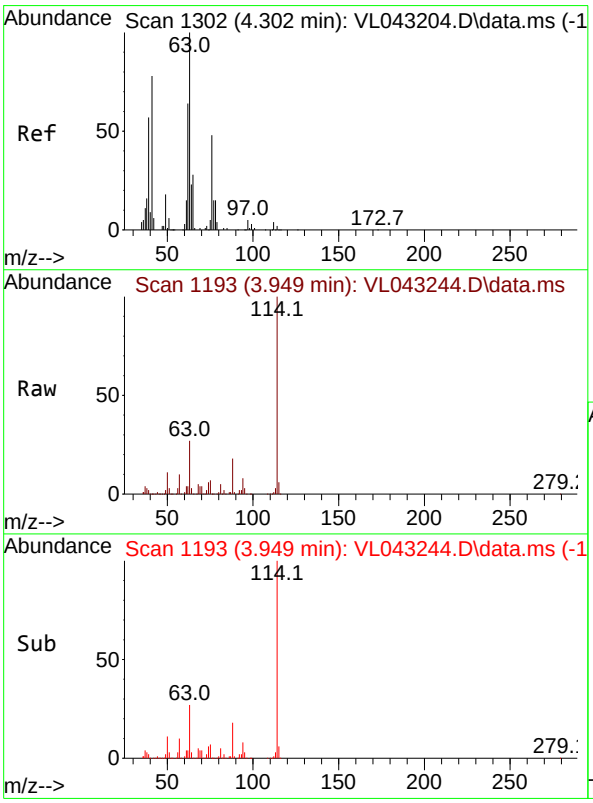
#36
Benzene
Concen: 0.518 ppbv
RT: 3.648 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 78 Resp: 14120

Ion	Ratio	Lower	Upper
78	100		
77	32.6	17.5	26.3#
50	18.9	15.5	23.3

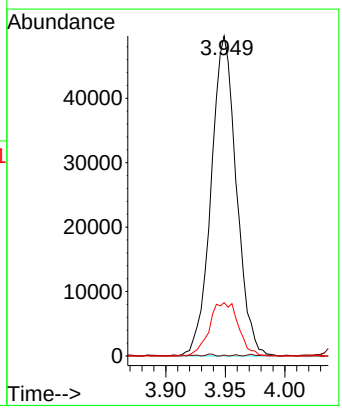


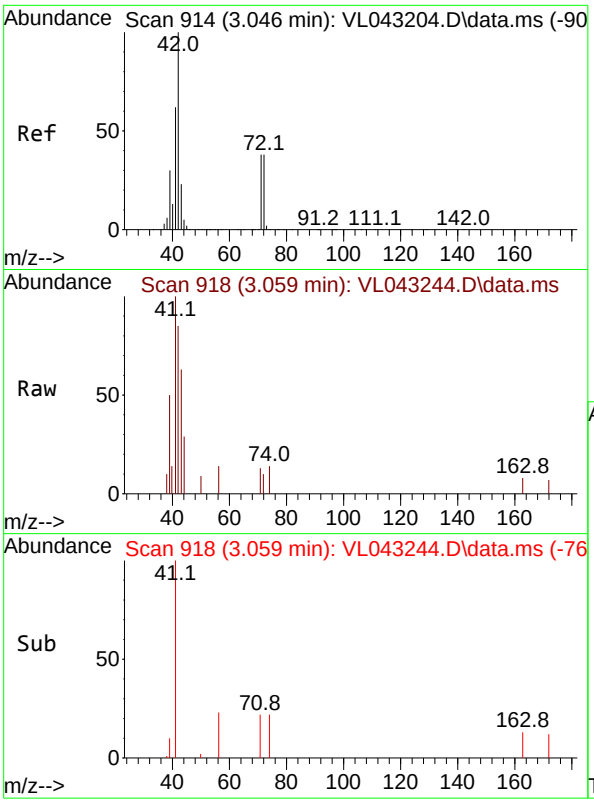


#39
1,2-Dichloropropane
Concen: 7.340 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.353 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 63 Resp: 73219

Ion	Ratio	Lower	Upper
63	100		
41	0.6	62.6	93.8#
62	16.7	51.0	76.6#



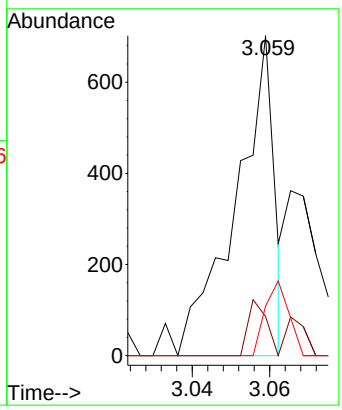


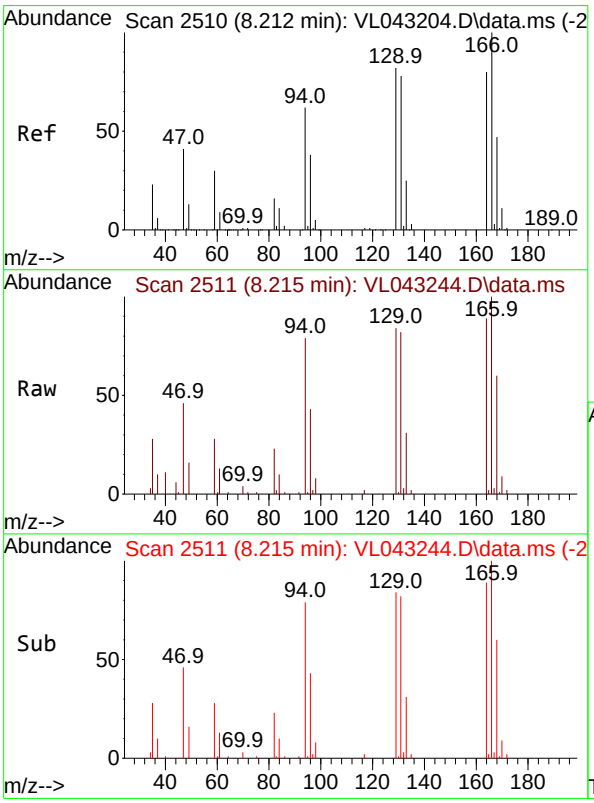
#41
Tetrahydrofuran
Concen: 0.043 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.013 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 42 Resp: 482

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.6	46.0#
71	14.3	30.5	45.7#

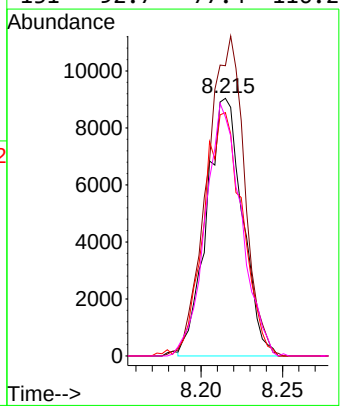


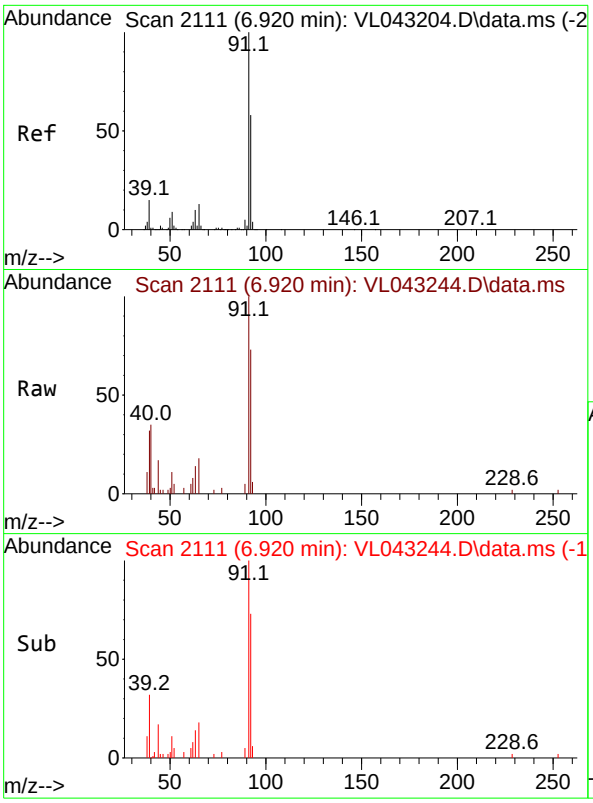


#52
Tetrachloroethene
Concen: 1.369 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion:164 Resp: 13878

Ion	Ratio	Lower	Upper
164	100		
166	111.6	99.4	149.2
129	94.5	81.8	122.8
131	92.7	77.4	116.2



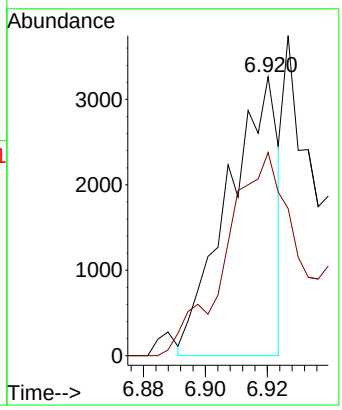


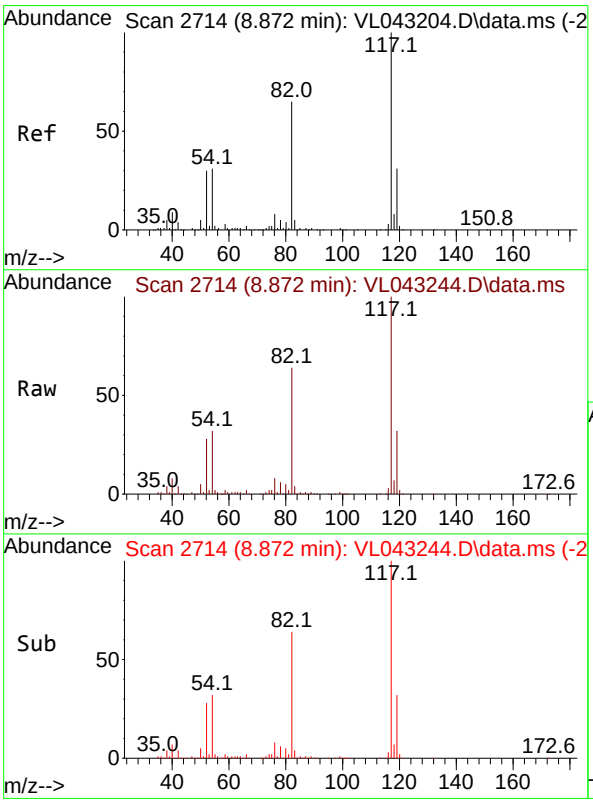
#53
Toluene
Concen: 0.114 ppbv
RT: 6.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 91 Resp: 3666

Ion	Ratio	Lower	Upper
91	100		
92	113.4	47.4	71.0#

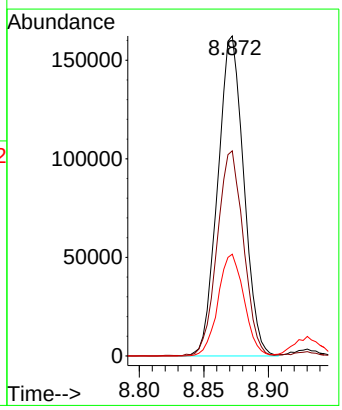


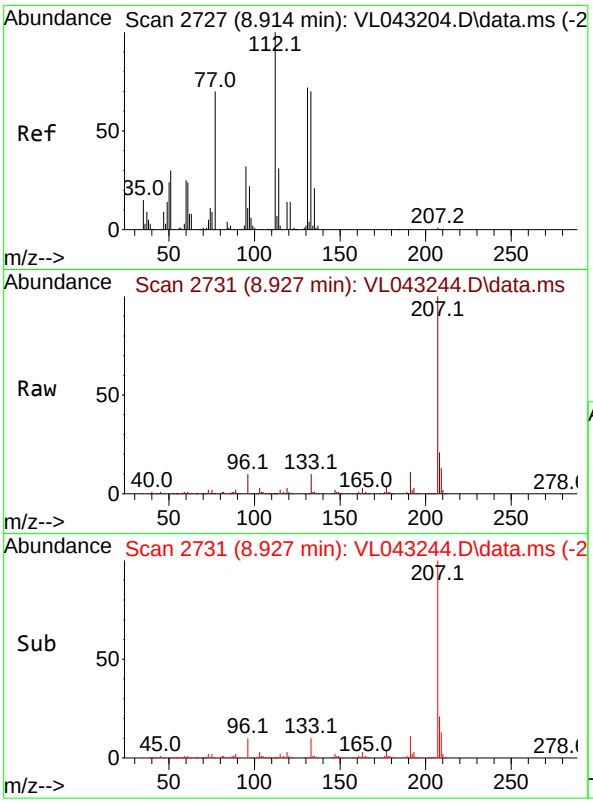


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion:117 Resp: 227663

Ion	Ratio	Lower	Upper
117	100		
82	65.1	56.1	84.1
119	31.8	25.0	37.6



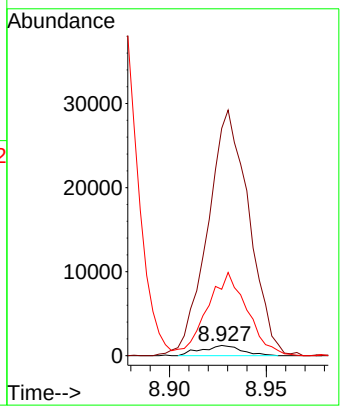


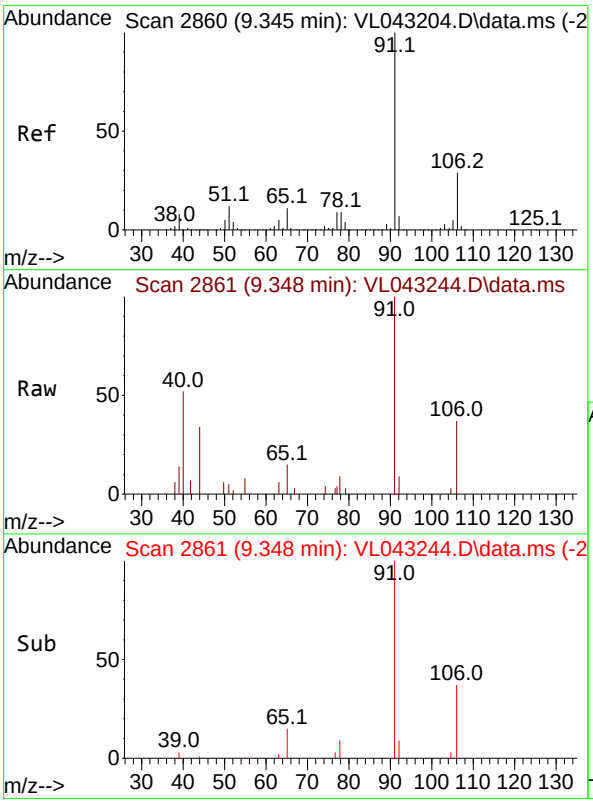
#56
1,1,1,2-Tetrachloroethane
Concen: 0.106 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion:131 Resp: 1768

Ion	Ratio	Lower	Upper
131	100		
133	2473.4	77.4	116.2#
119	816.9	49.1	73.7#

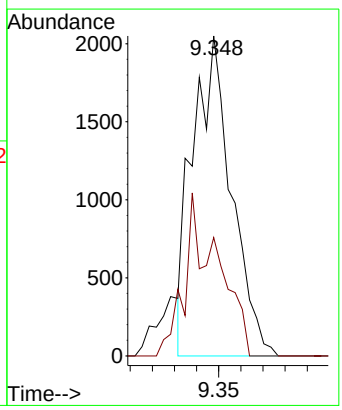


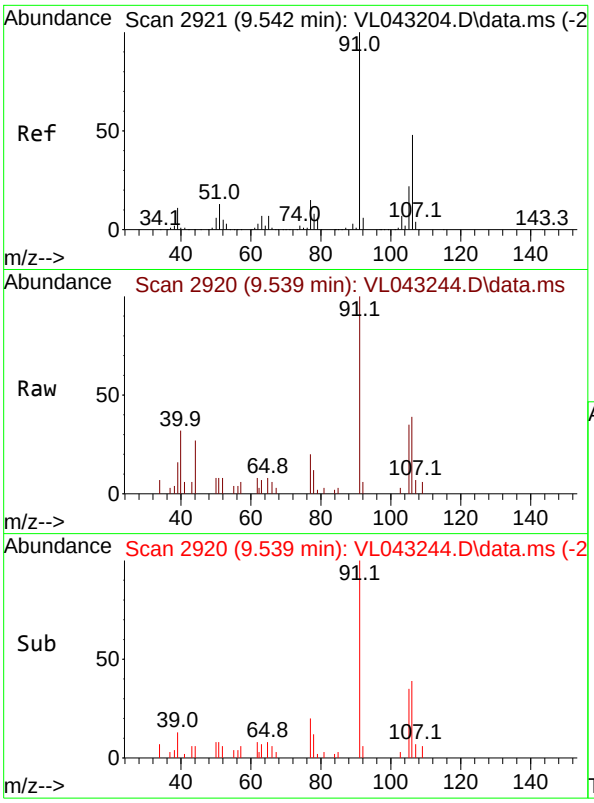


#58
Ethyl Benzene
Concen: 0.057 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 91 Resp: 2502

Ion	Ratio	Lower	Upper
91	100		
106	37.0	22.8	34.2#



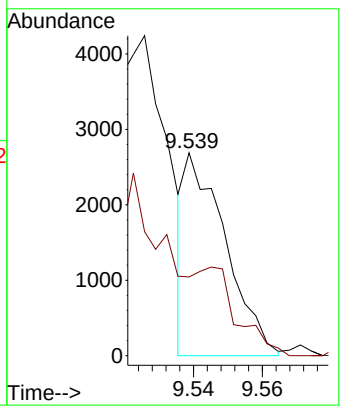


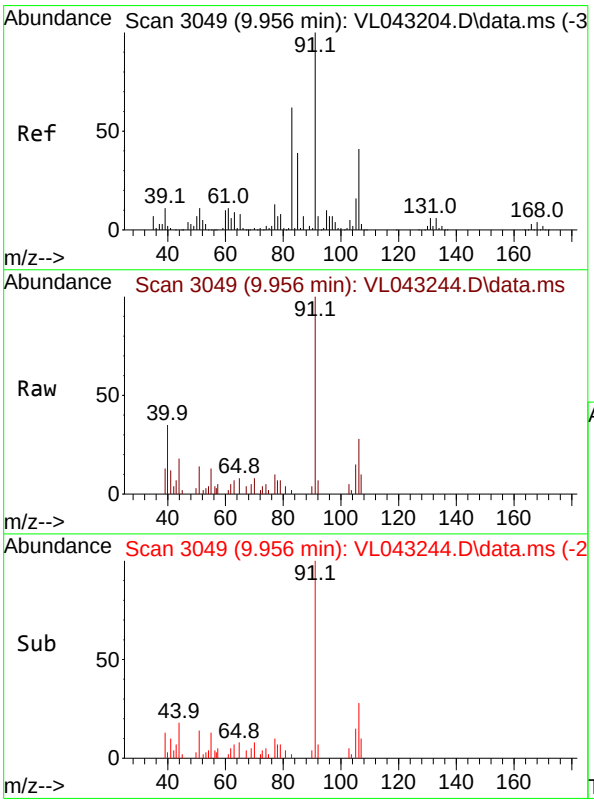
#59
m/p-Xylene
Concen: 0.063 ppbv
RT: 9.539 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 91 Resp: 2212

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

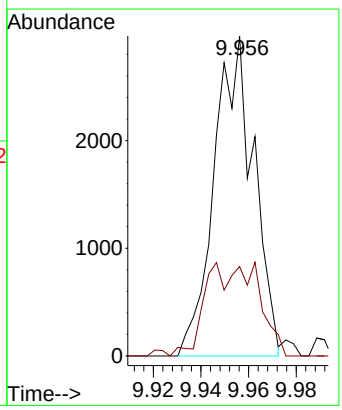


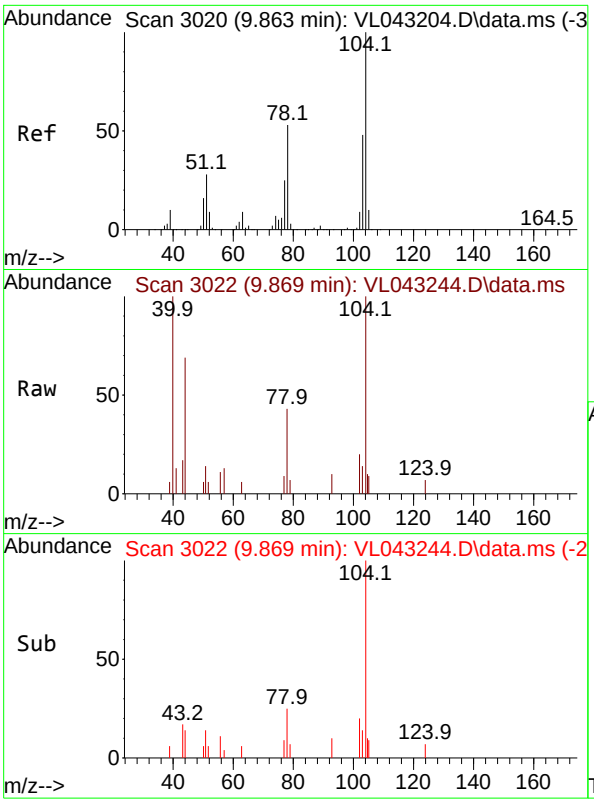


#60
o-Xylene
Concen: 0.097 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion: 91 Resp: 3418

Ion	Ratio	Lower	Upper
91	100		
106	39.6	20.9	62.8



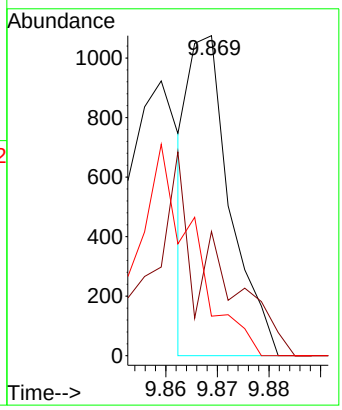


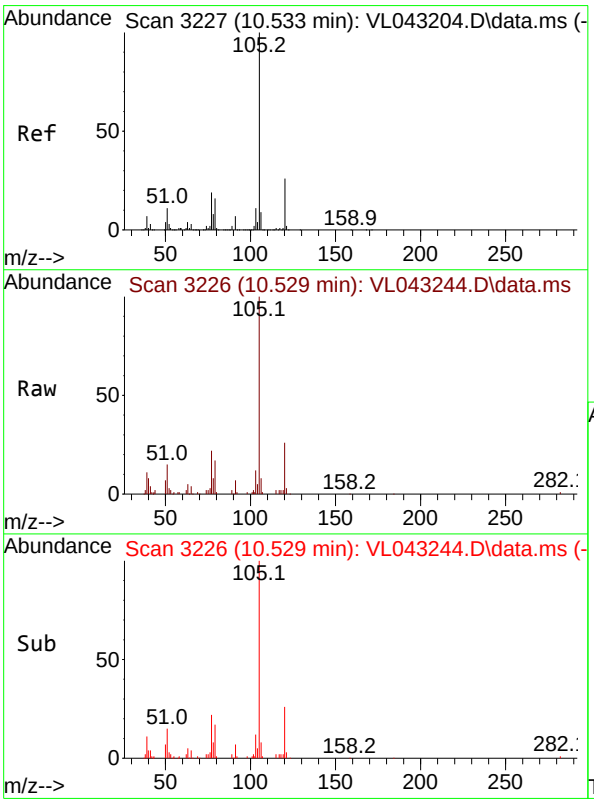
#61
Styrene
Concen: 0.039 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion:104 Resp: 599

Ion	Ratio	Lower	Upper
104	100		
78	55.3	42.1	63.1
103	38.1	37.2	55.8

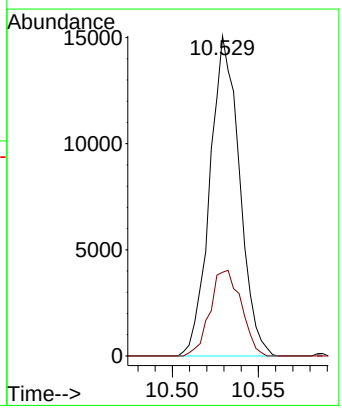


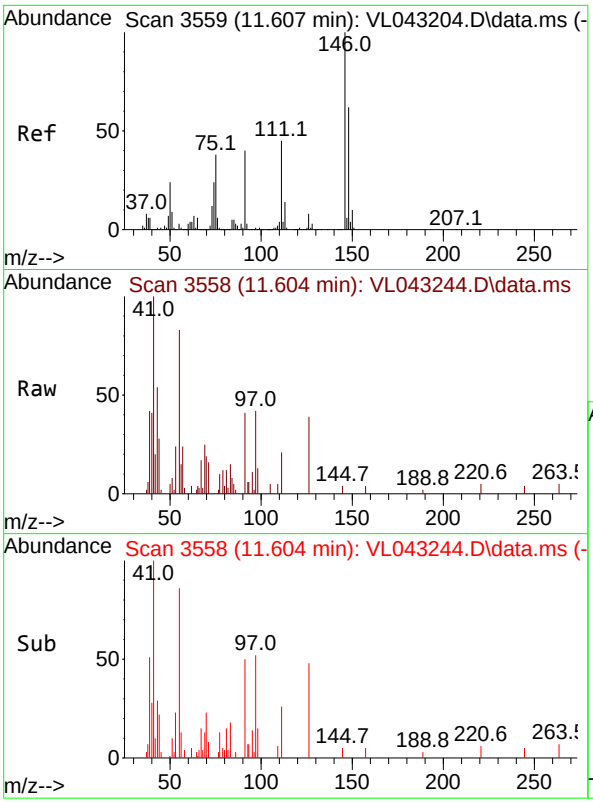


#62
Isopropylbenzene
Concen: 0.287 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion:105 Resp: 18013

Ion	Ratio	Lower	Upper
105	100		
120	28.2	19.8	29.8



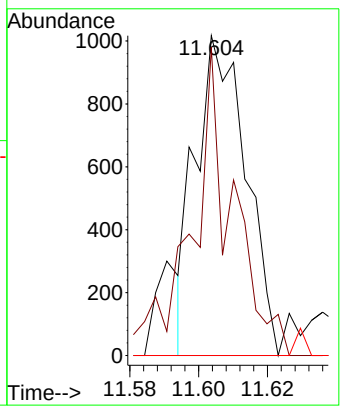


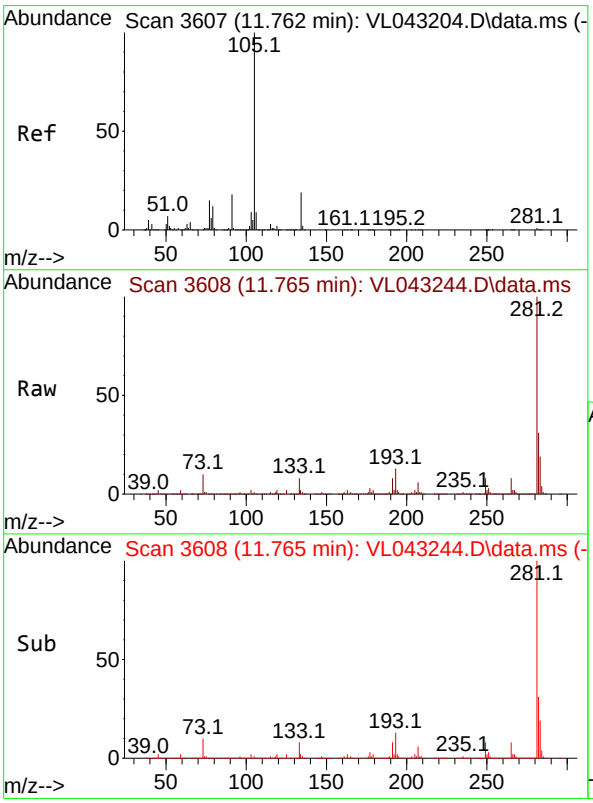
#66
Benzyl Chloride
Concen: 0.182 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 91 Resp: 1036

Ion	Ratio	Lower	Upper
91	100		
126	78.2	14.4	21.6#
128	0.0	4.6	6.8#

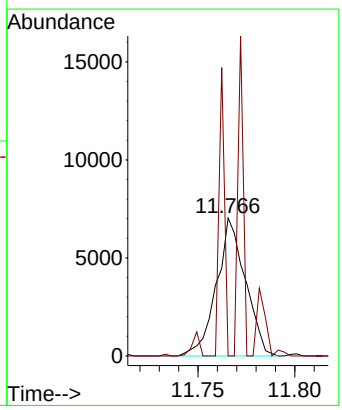


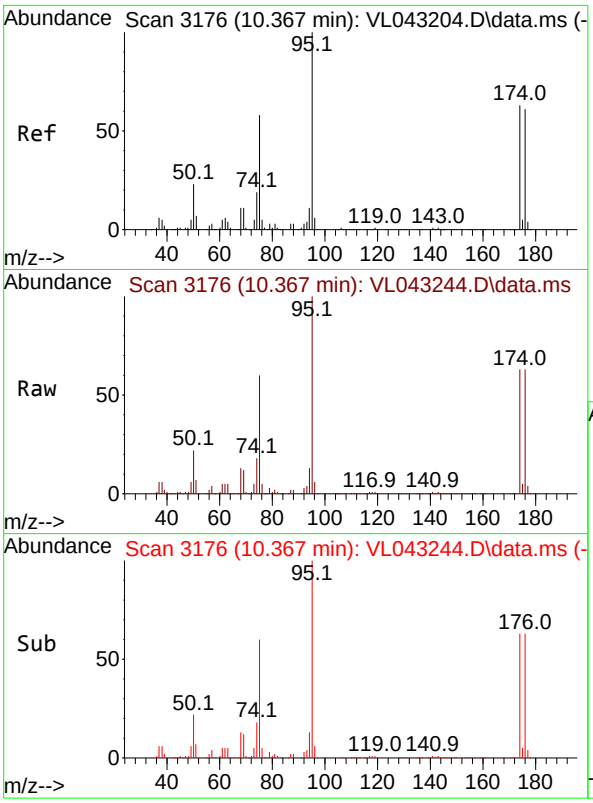


#67
sec-Butylbenzene
Concen: 0.093 ppbv
RT: 11.765 min Scan# 3608
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion:105 Resp: 7294

Ion	Ratio	Lower	Upper
105	100		
134	43.8	15.0	22.6#



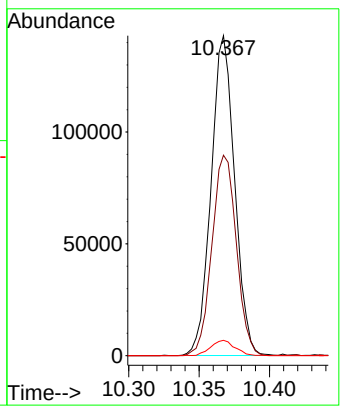


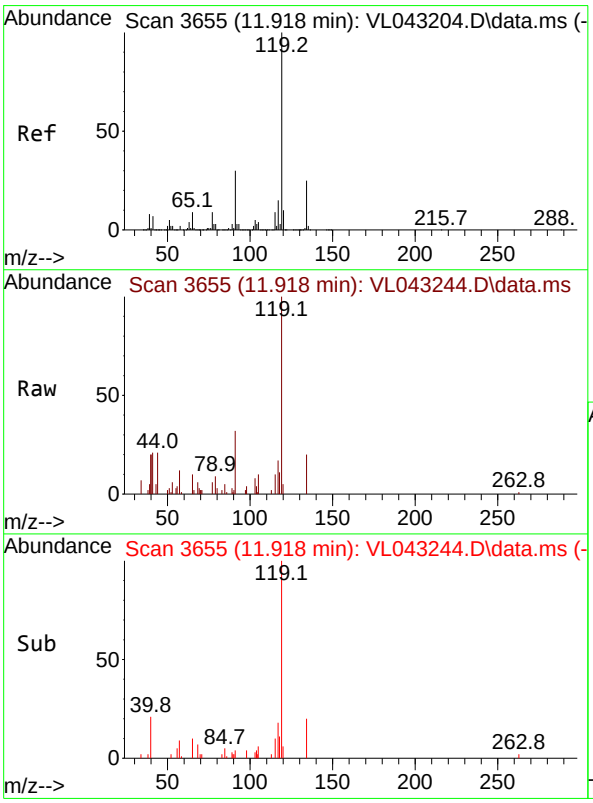
#68
1-Bromo-4-Fluorobenzene
Concen: 9.959 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 95 Resp: 166196

Ion	Ratio	Lower	Upper
95	100		
174	65.5	50.2	75.2
175	5.0	4.1	6.1

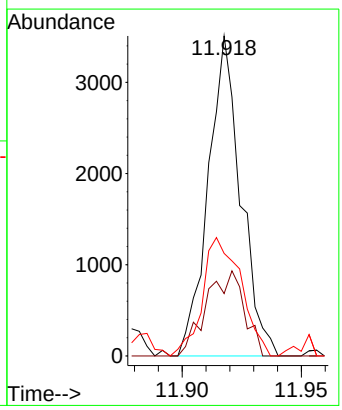


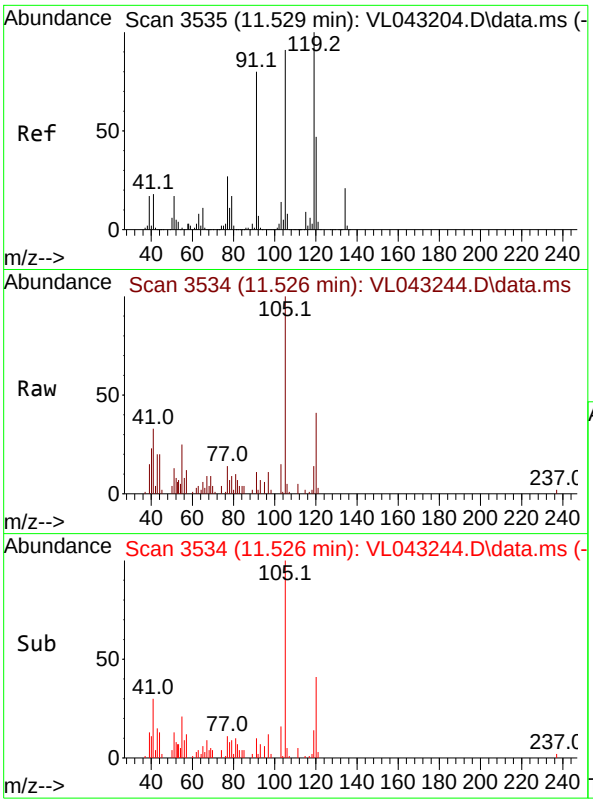


#69
p-Isopropyltoluene
Concen: 0.050 ppbv
RT: 11.918 min Scan# 3655
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion:119 Resp: 3337

Ion	Ratio	Lower	Upper
119	100		
134	31.0	20.2	30.2#
91	44.1	23.8	35.8#



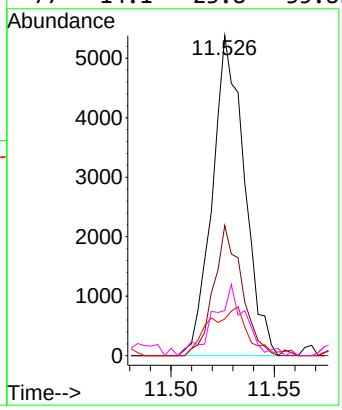


#74
1,2,4-Trimethylbenzene
Concen: 0.148 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion:105 Resp: 5794

Ion	Ratio	Lower	Upper
105	100		
120	40.7	41.7	62.5#
91	11.4	70.0	105.0#
77	14.1	23.8	35.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043245.D
Acq On : 19 Nov 2025 18:21
Operator : SY/MD
Sample : Q3626-11 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Quant Time: Nov 20 00:08:38 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

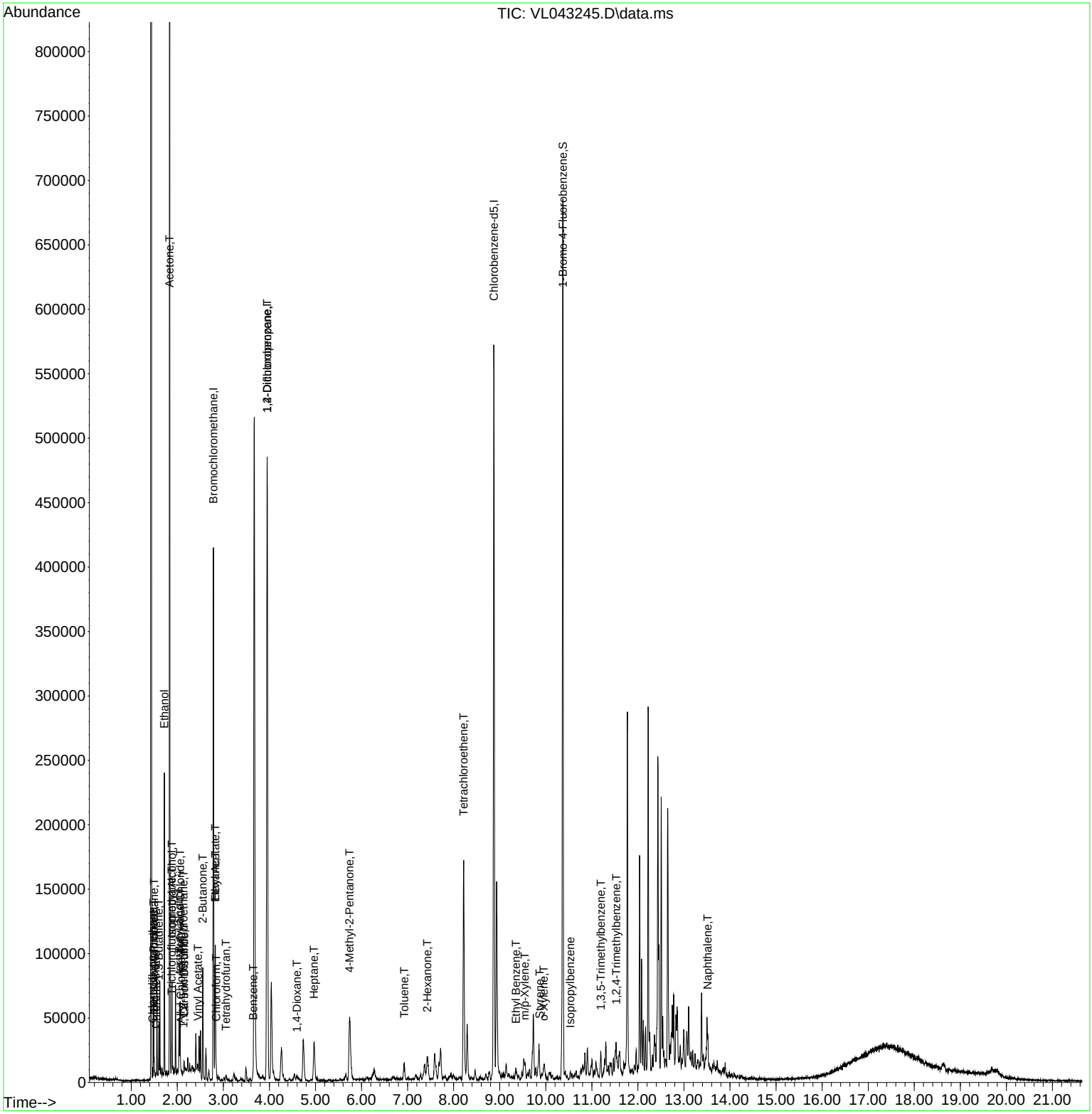
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	105038	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	285629	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	229034	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	169788	10.114	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3683	0.249	ppbv		92
3) Chlorodifluoromethane	1.466	51	3941	0.270	ppbv	#	70
4) Chloromethane	1.531	50	429	0.077	ppbv	#	77
9) Propene	1.486	41	6938	1.121	ppbv	#	1
10) Heptane	4.965	43	6601	0.358	ppbv	#	28
11) Trichlorofluoromethane	1.877	101	1794	0.125	ppbv	#	81
12) 1,1,2-Trichlorotrifluo...	2.133	101	339	0.030	ppbv	#	62
13) Ethanol	1.719	45	76497	35.162	ppbv		99
15) Acetone	1.832	43	626747	42.948	ppbv		99
16) 1,3-Butadiene	1.599	39	4524	0.695	ppbv	#	30
17) tert-Butyl alcohol	2.039	59	17850	0.932	ppbv		95
19) Isopropyl Alcohol	1.884	45	29002	3.517	ppbv	#	36
20) Methylene Chloride	2.062	84	8219	1.222	ppbv	#	89
21) Allyl Chloride	2.078	41	406	0.041	ppbv	#	1
23) Vinyl Acetate	2.447	43	3768	0.214	ppbv	#	82
25) Ethyl Acetate	2.826	43	17572	0.558	ppbv	#	79
26) Hexane	2.823	57	25231	1.828	ppbv	#	42
27) Carbon Disulfide	2.149	76	4895	0.347	ppbv	#	1
29) Chloroform	2.845	83	3234	0.165	ppbv	#	82
34) 2-Butanone	2.554	43	52225	2.590	ppbv		99
36) Benzene	3.651	78	5287	0.193	ppbv	#	81
39) 1,2-Dichloropropane	3.952	63	71644	7.156	ppbv	#	25
40) 1,4-Dioxane	4.596	88	1146	0.255	ppbv	#	72
41) Tetrahydrofuran	3.056	42	1086	0.098	ppbv	#	42
50) 4-Methyl-2-Pentanone	5.742	43	25127	0.885	ppbv	#	51
51) 2-Hexanone	7.428	43	9175	0.416	ppbv	#	95
52) Tetrachloroethene	8.218	164	29129	2.863	ppbv		96
53) Toluene	6.927	91	5760	0.178	ppbv	#	64
58) Ethyl Benzene	9.351	91	3277	0.074	ppbv		90
59) m/p-Xylene	9.542	91	2390	0.068	ppbv	#	31
60) o-Xylene	9.956	91	3538	0.100	ppbv		98
61) Styrene	9.865	104	1231	0.080	ppbv	#	57
62) Isopropylbenzene	10.532	105	2024	0.032	ppbv		93
73) 1,3,5-Trimethylbenzene	11.199	105	1424	0.039	ppbv	#	61
74) 1,2,4-Trimethylbenzene	11.532	105	4969	0.126	ppbv	#	47
79) Naphthalene	13.513	128	1216	0.035	ppbv	#	47

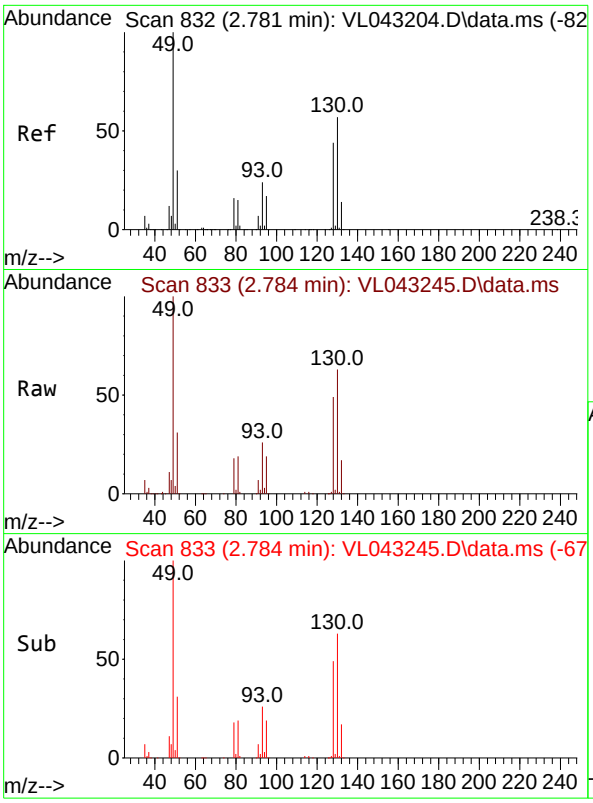
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043245.D
Acq On : 19 Nov 2025 18:21
Operator : SY/MD
Sample : Q3626-11 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Quant Time: Nov 20 00:08:38 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



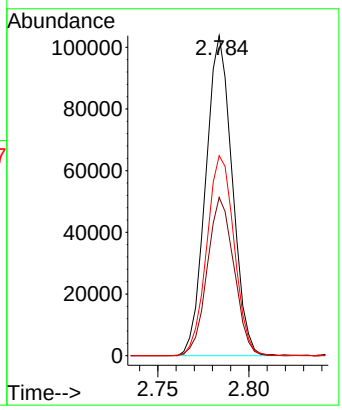


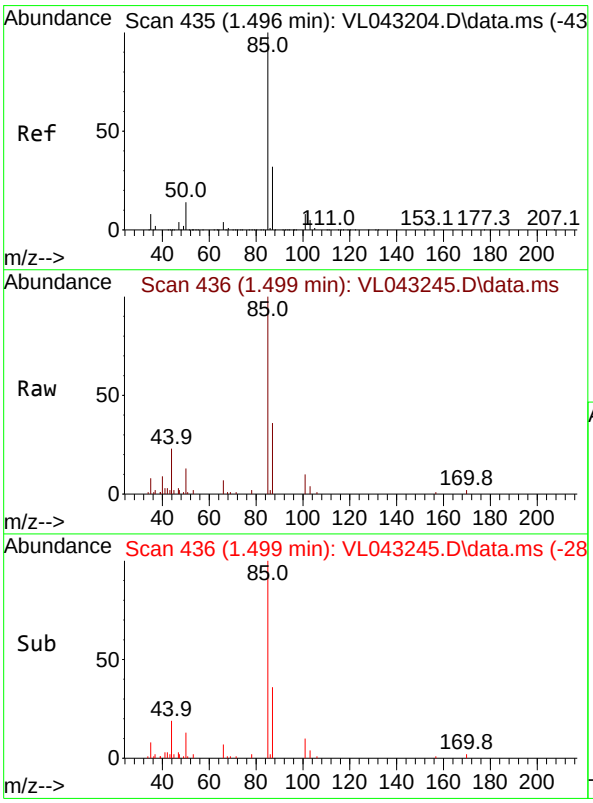
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 49 Resp: 105038

Ion	Ratio	Lower	Upper
49	100		
128	49.9	23.0	69.0
130	64.6	29.9	89.7

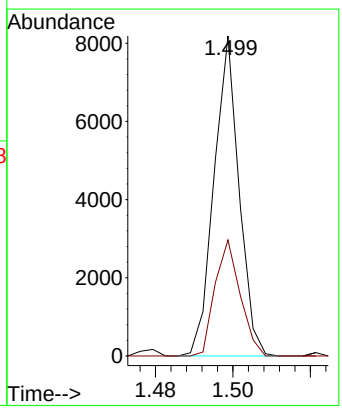


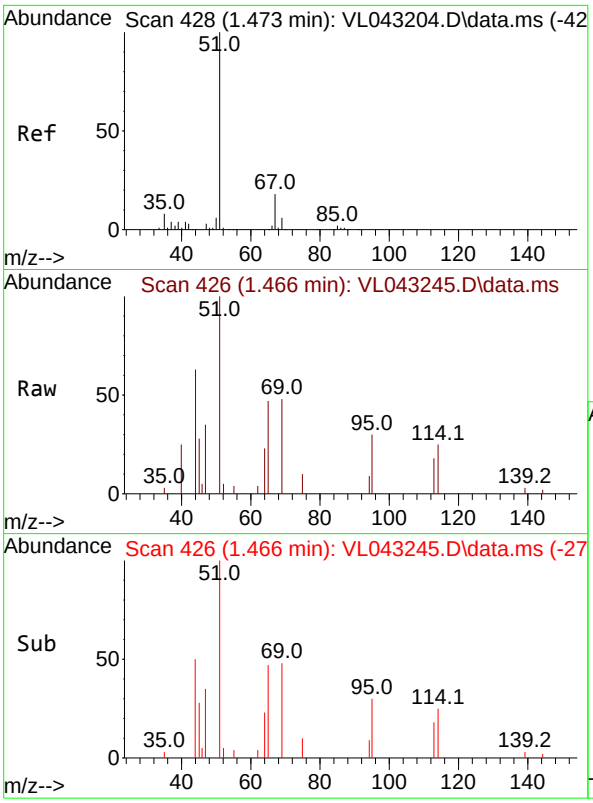


#2
Dichlorodifluoromethane
Concen: 0.249 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 85 Resp: 3683

Ion	Ratio	Lower	Upper
85	100		
87	36.2	25.4	38.2



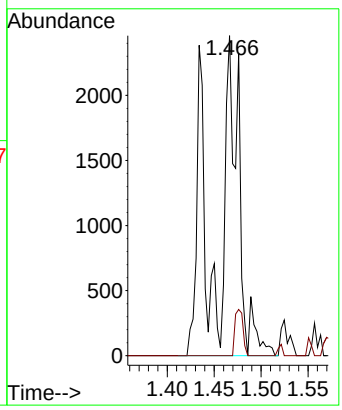


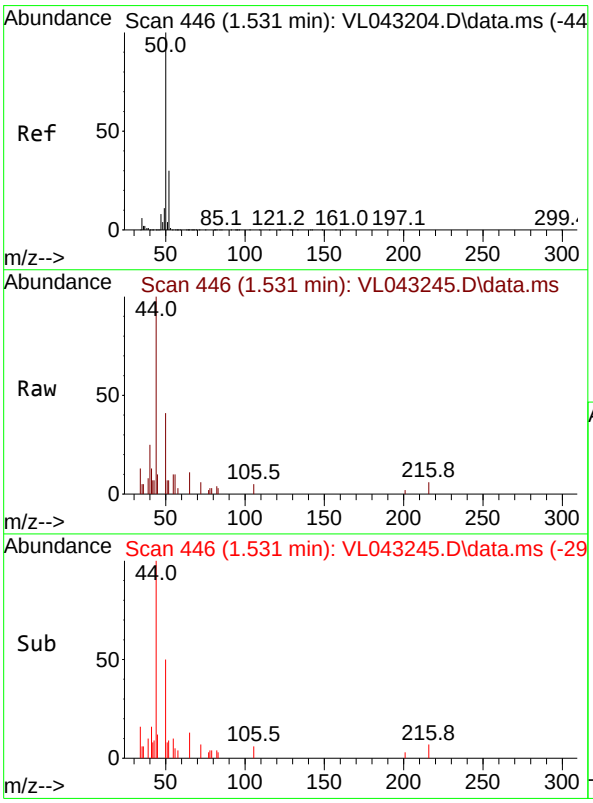
#3
Chlorodifluoromethane
Concen: 0.270 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 51 Resp: 3941

Ion	Ratio	Lower	Upper
51	100		
67	5.3	14.9	22.3#

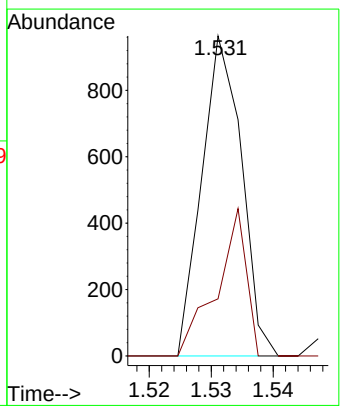


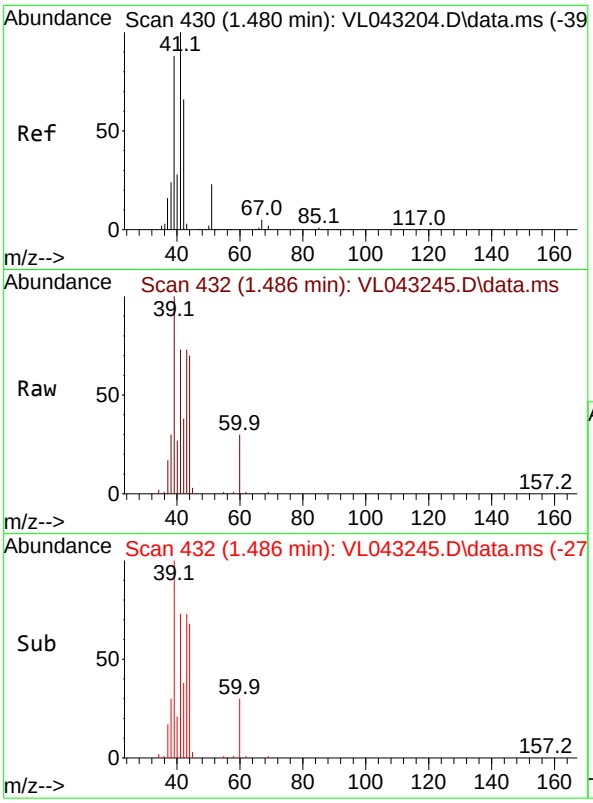


#4
Chloromethane
Concen: 0.077 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 50 Resp: 429

Ion	Ratio	Lower	Upper
50	100		
52	17.8	24.1	36.1#



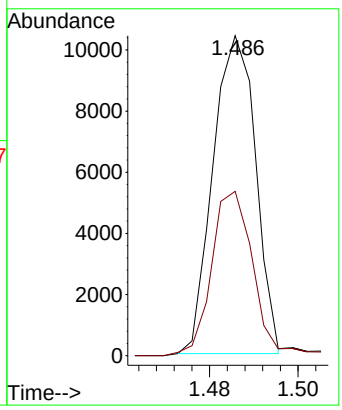


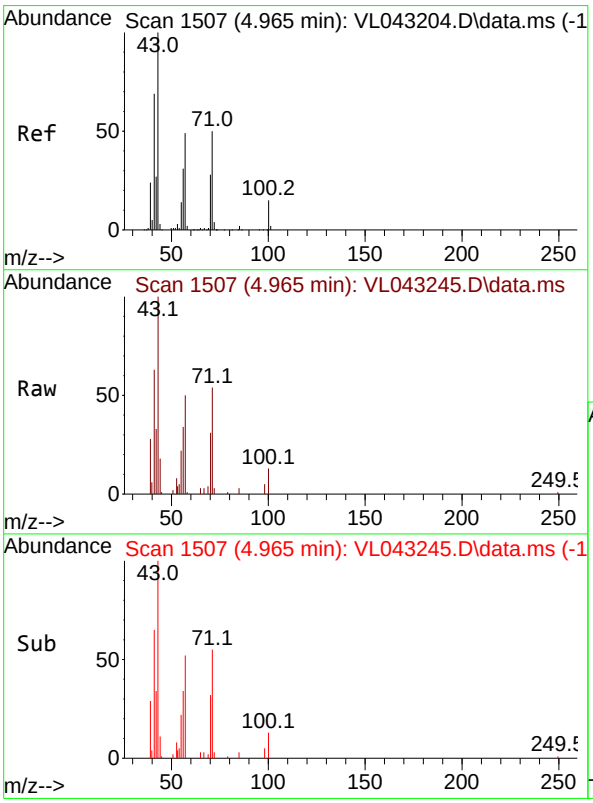
#9
Propene
Concen: 1.121 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 41 Resp: 6938

Ion	Ratio	Lower	Upper
41	100		
42	54.5	3.7	5.5#

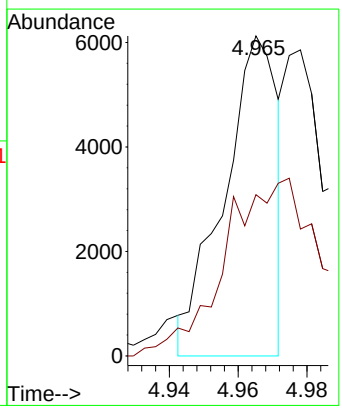


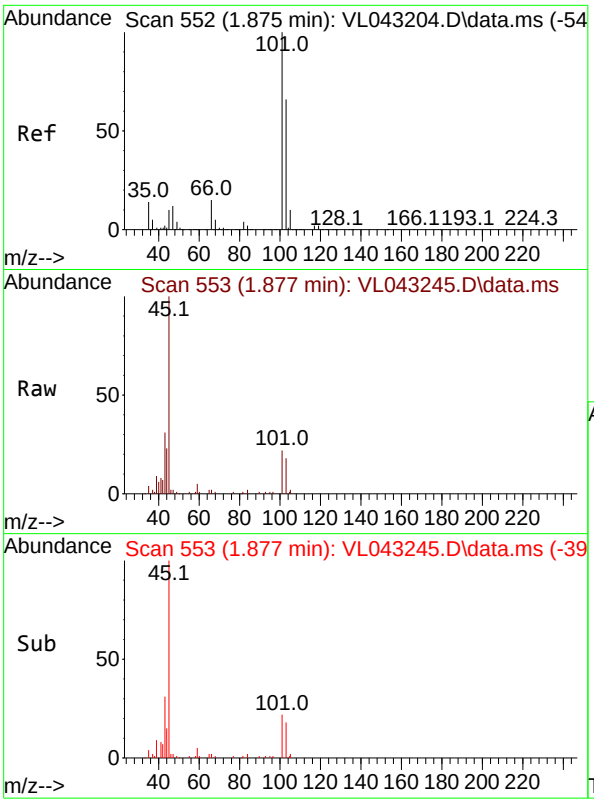


#10
Heptane
Concen: 0.358 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 43 Resp: 6601

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#



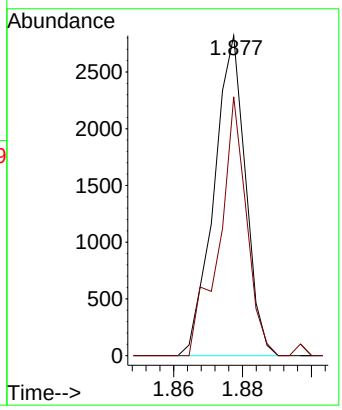


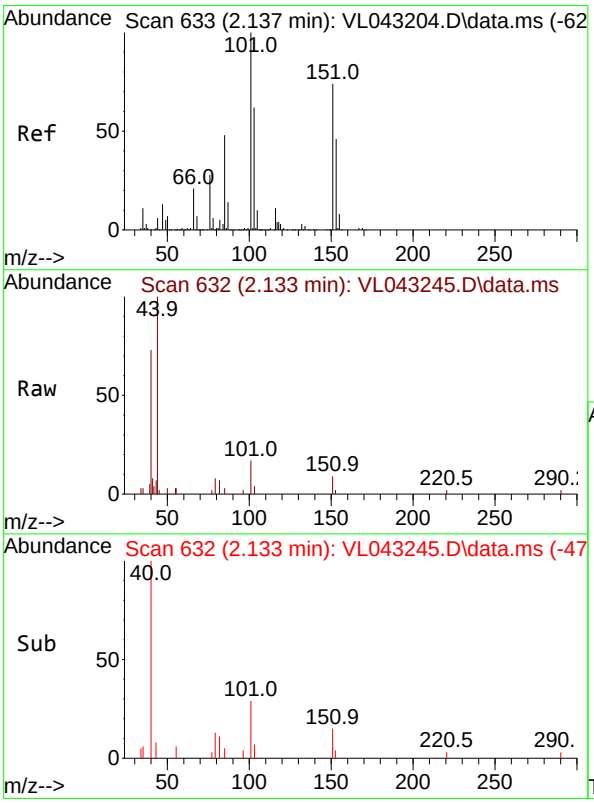
#11
Trichlorofluoromethane
Concen: 0.125 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion:101 Resp: 1794

Ion	Ratio	Lower	Upper
101	100		
103	80.9	52.6	79.0#

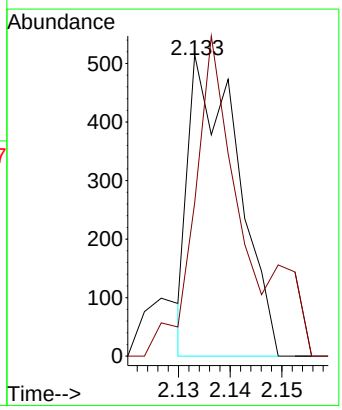


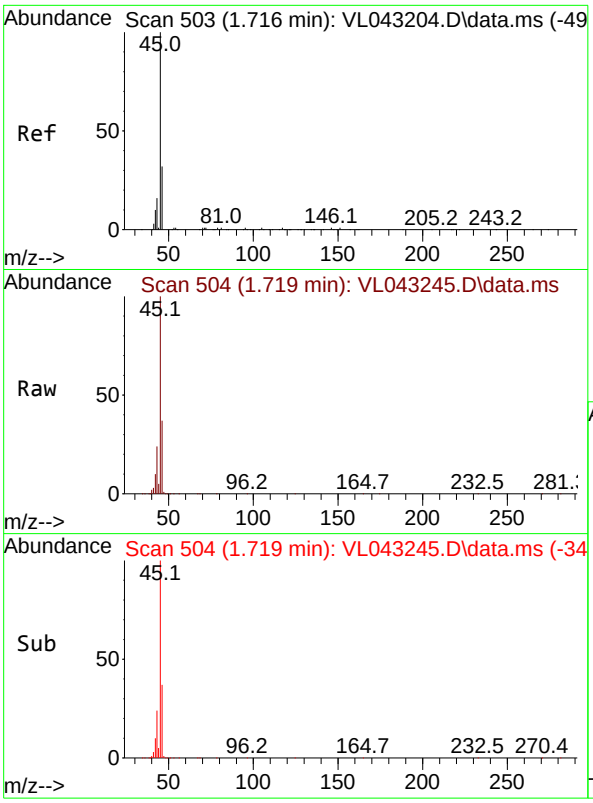


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.030 ppbv
RT: 2.133 min Scan# 632
Delta R.T. -0.004 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion:101 Resp: 339

Ion	Ratio	Lower	Upper
101	100		
151	106.5	59.2	88.8#



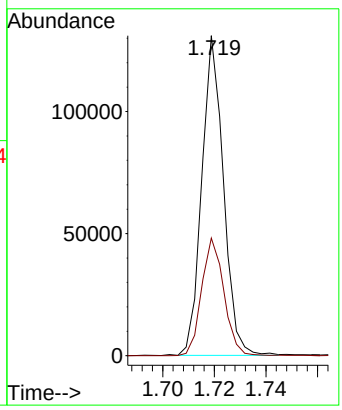


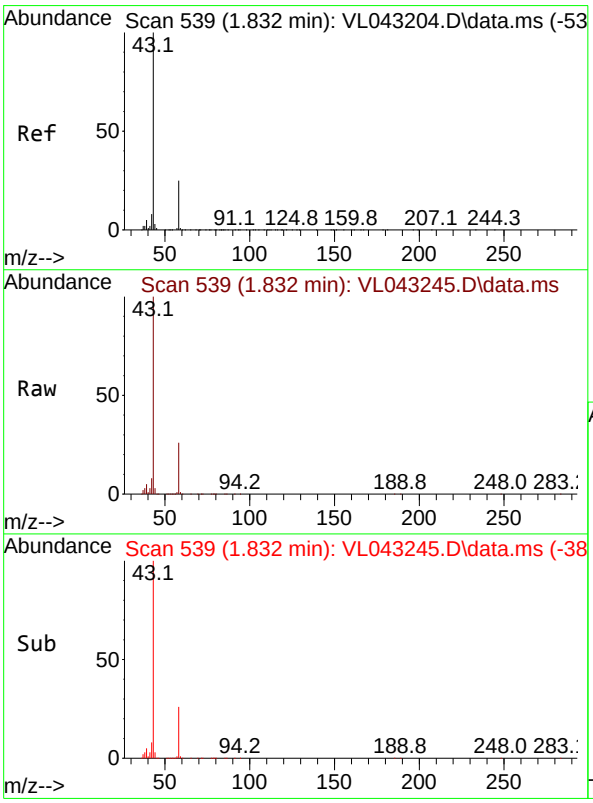
#13
Ethanol
Concen: 35.162 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 45 Resp: 76497

Ion	Ratio	Lower	Upper
45	100		
46	38.0	15.0	59.8

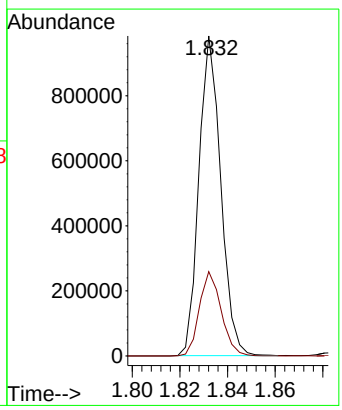


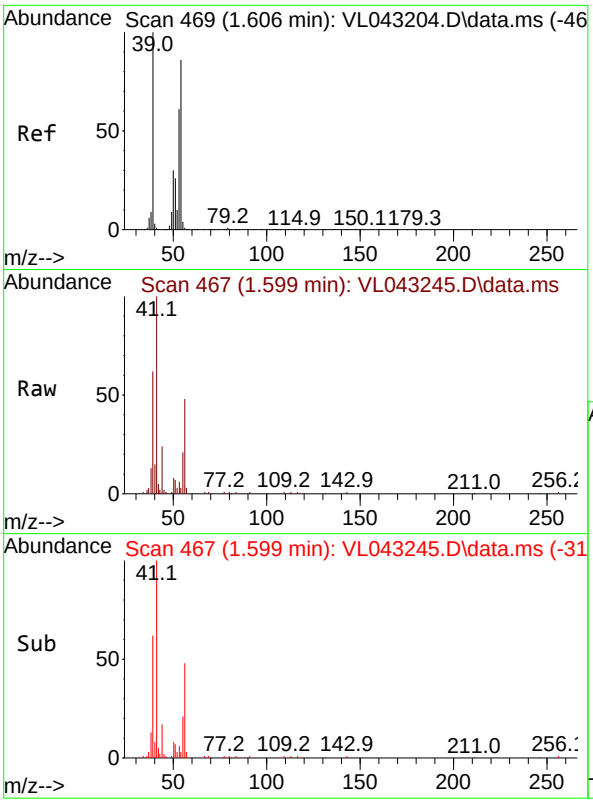


#15
Acetone
Concen: 42.948 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 43 Resp: 626747

Ion	Ratio	Lower	Upper
43	100		
58	26.6	20.7	31.1



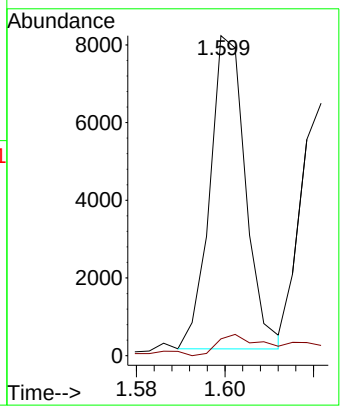


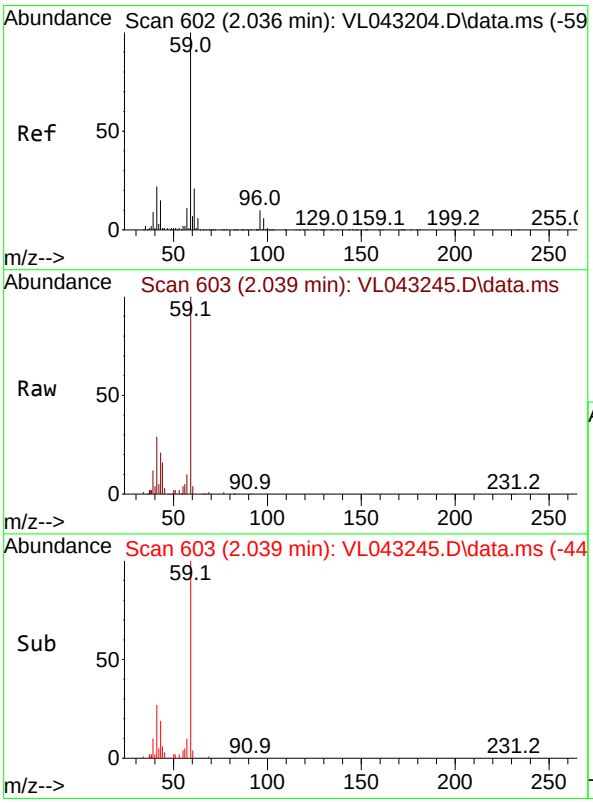
#16
1,3-Butadiene
Concen: 0.695 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 39 Resp: 4524

Ion	Ratio	Lower	Upper
39	100		
54	15.1	59.4	89.2#

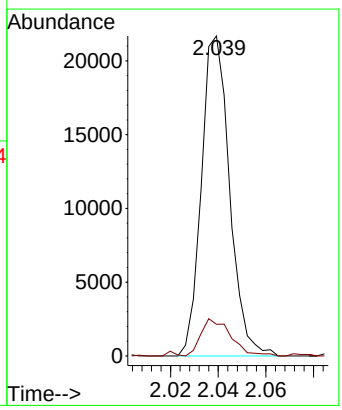


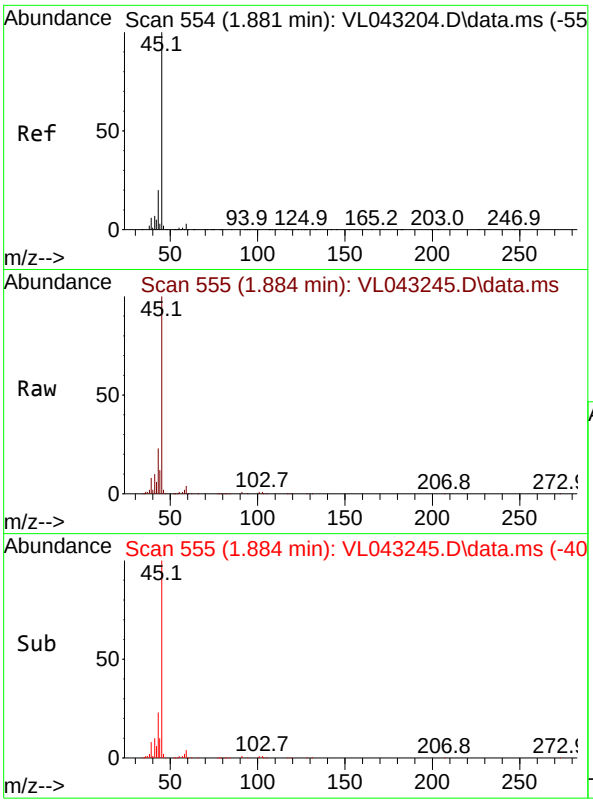


#17
tert-Butyl alcohol
Concen: 0.932 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 59 Resp: 17850

Ion	Ratio	Lower	Upper
59	100		
57	13.1	9.0	13.4



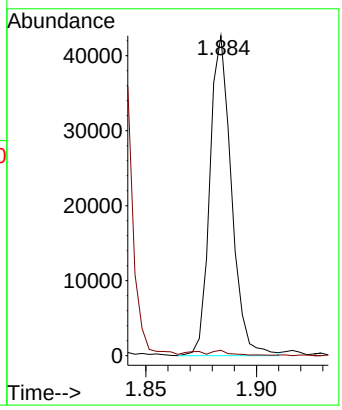


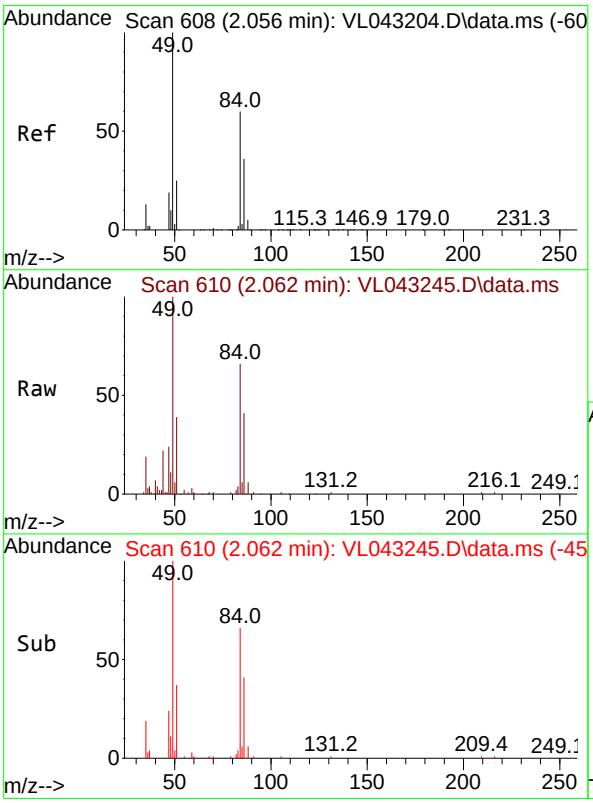
#19
Isopropyl Alcohol
Concen: 3.517 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 45 Resp: 29002

Ion	Ratio	Lower	Upper
45	100		
58	0.0	31.3	46.9#

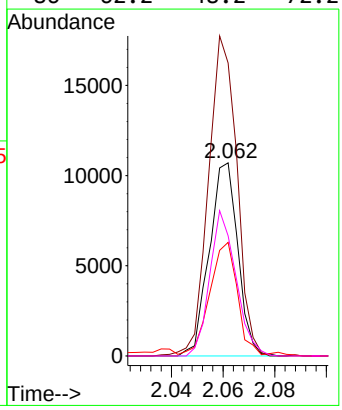


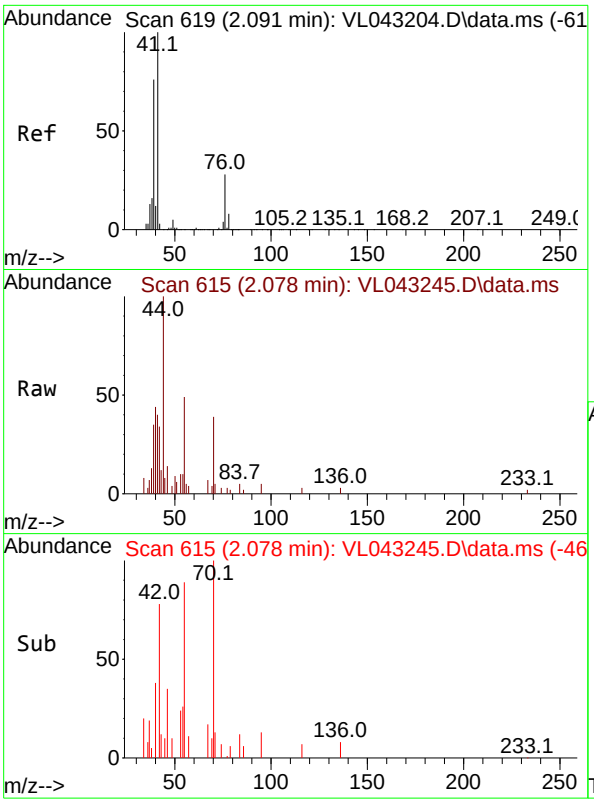


#20
Methylene Chloride
Concen: 1.222 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 84 Resp: 8219

Ion	Ratio	Lower	Upper
84	100		
49	151.7	132.9	199.3
51	58.0	34.8	52.2#
86	62.2	48.2	72.2



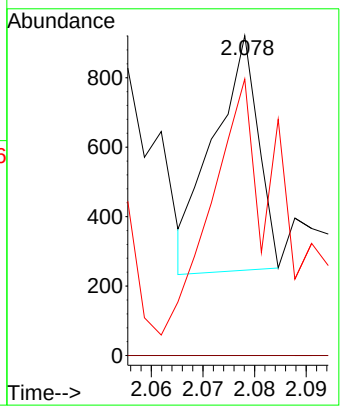


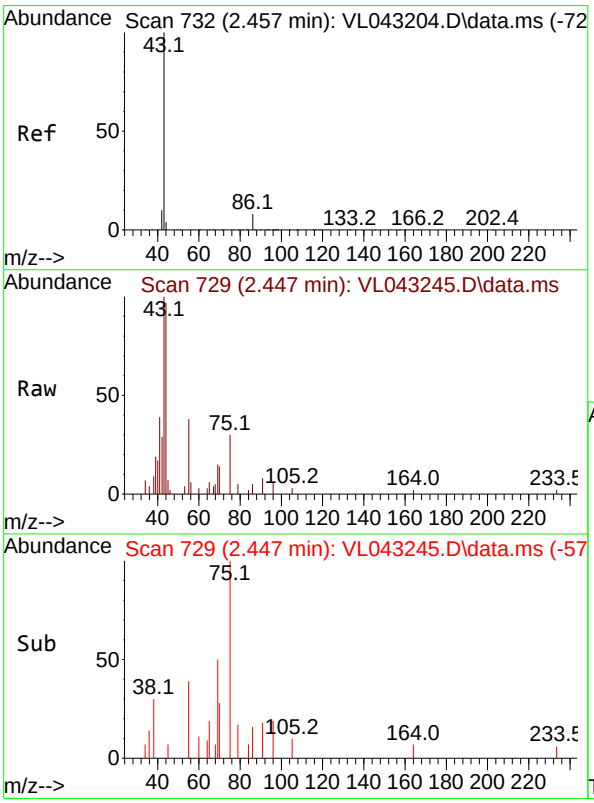
#21
Allyl Chloride
Concen: 0.041 ppbv
RT: 2.078 min Scan# 61
Delta R.T. -0.013 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 41 Resp: 406

Ion	Ratio	Lower	Upper
41	100		
76	1220.0	22.1	33.1#
39	411.3	61.0	91.4#

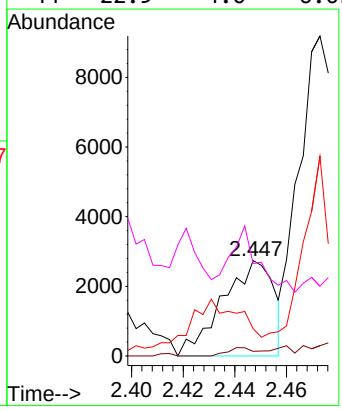


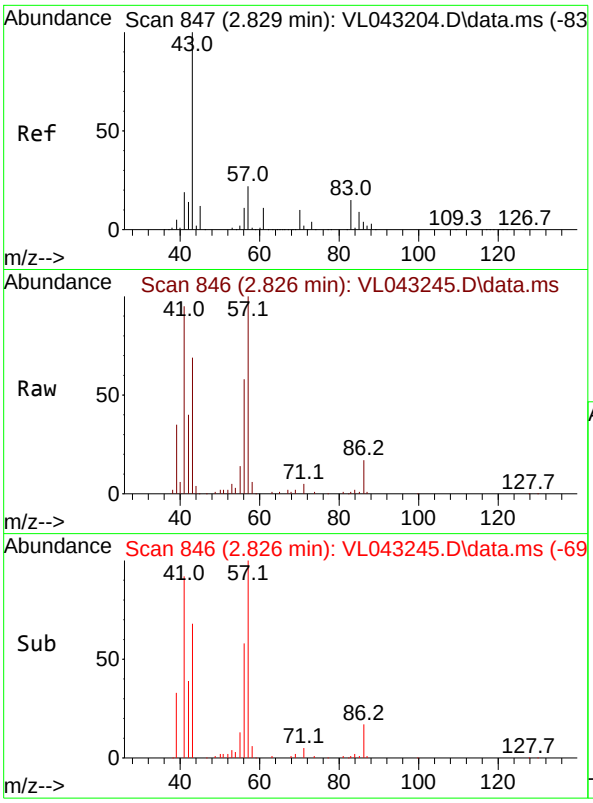


#23
Vinyl Acetate
Concen: 0.214 ppbv
RT: 2.447 min Scan# 729
Delta R.T. -0.010 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 43 Resp: 3768

Ion	Ratio	Lower	Upper
43	100		
86	4.8	6.2	9.2#
42	7.1	8.0	12.0#
44	22.9	4.0	6.0#



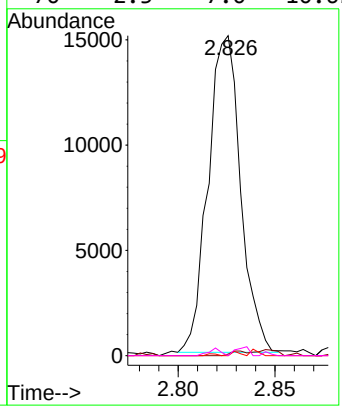


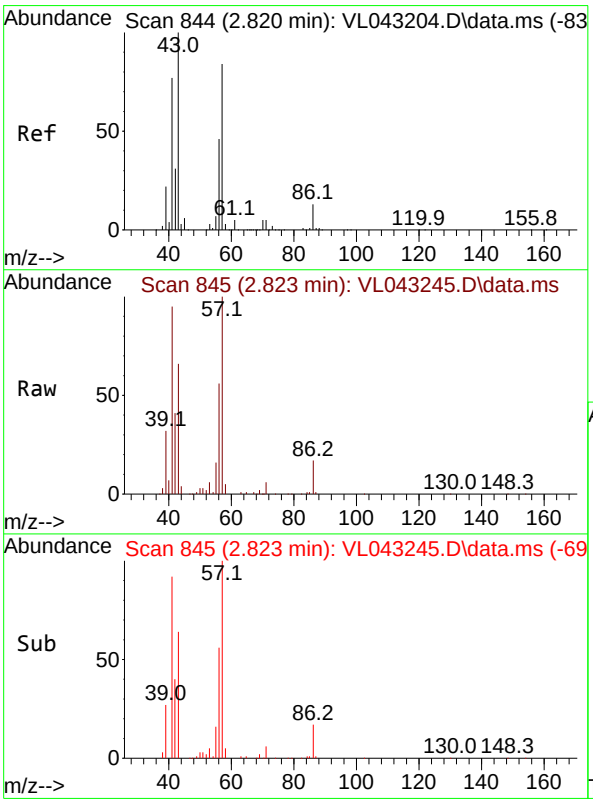
#25
Ethyl Acetate
Concen: 0.558 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.004 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 43 Resp: 17572

Ion	Ratio	Lower	Upper
43	100		
45	2.1	8.1	12.1#
61	0.5	7.0	10.4#
70	2.3	7.0	10.6#

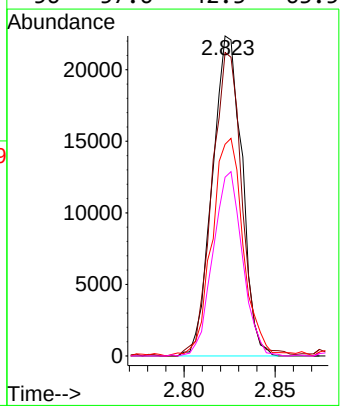


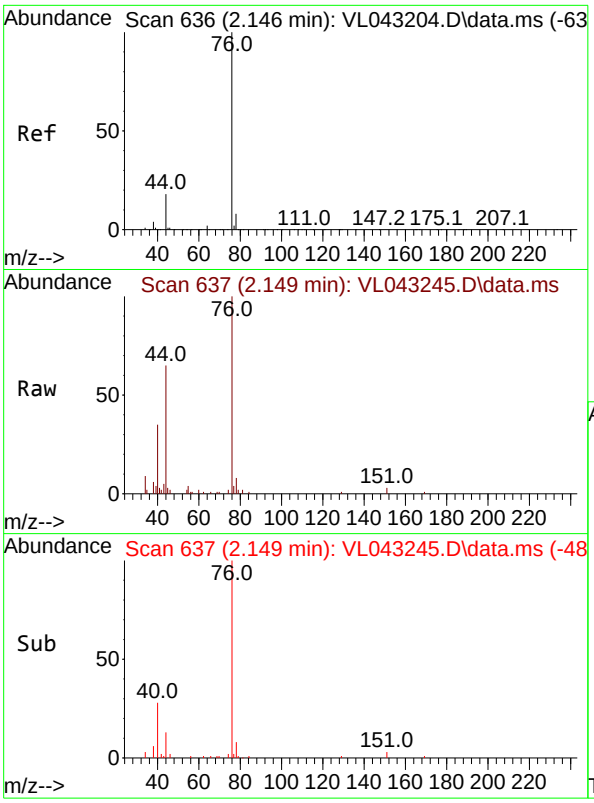


#26
Hexane
Concen: 1.828 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 57 Resp: 25231

Ion	Ratio	Lower	Upper
57	100		
41	95.7	74.6	111.8
43	70.9	179.0	268.4#
56	57.6	42.3	63.5



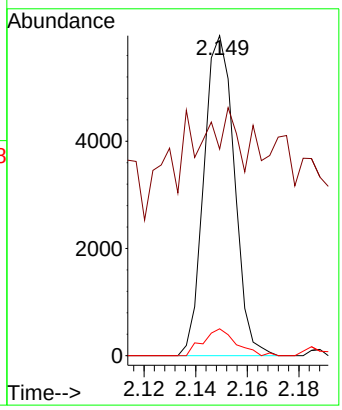


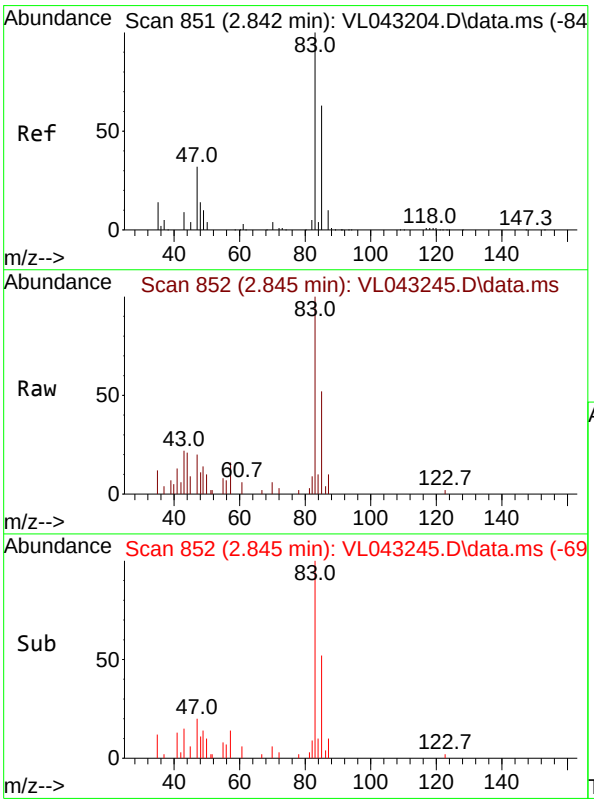
#27
Carbon Disulfide
Concen: 0.347 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 76 Resp: 4895

Ion	Ratio	Lower	Upper
76	100		
44	123.2	16.1	24.1#
78	9.1	9.6	14.4#

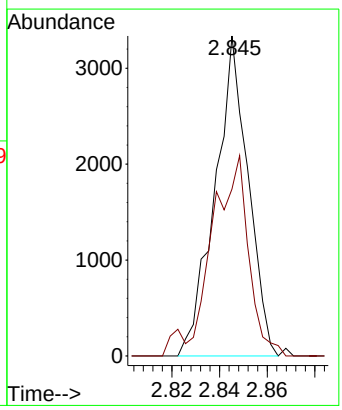


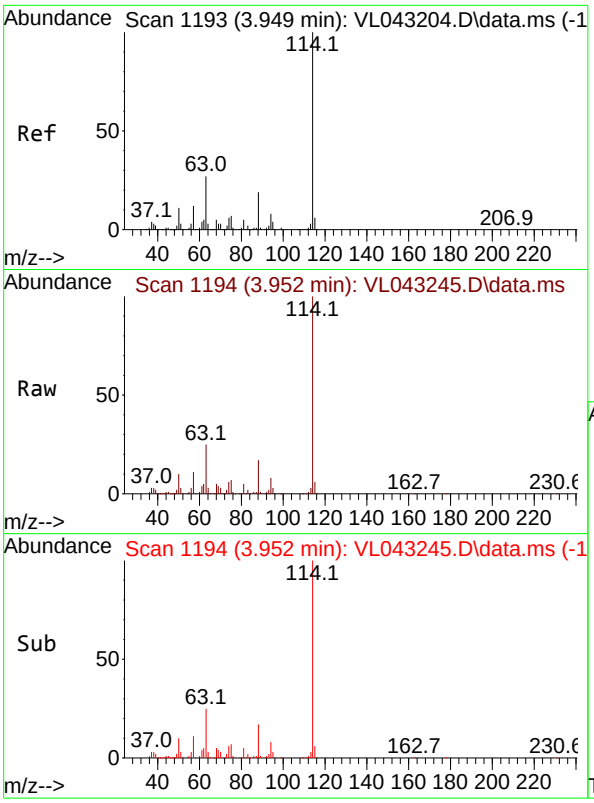


#29
Chloroform
Concen: 0.165 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 83 Resp: 3234

Ion	Ratio	Lower	Upper
83	100		
85	48.9	50.5	75.7#



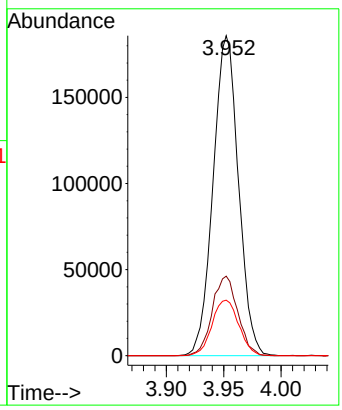


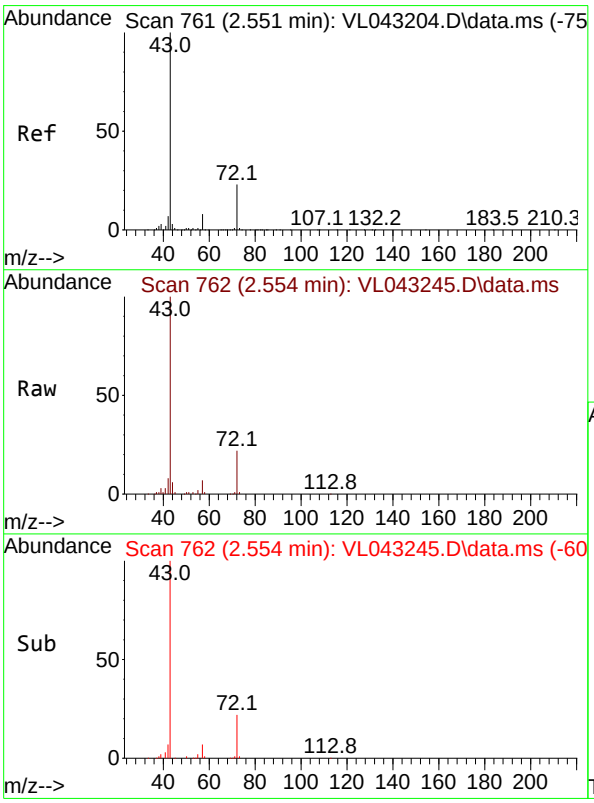
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion:114 Resp: 285629

Ion	Ratio	Lower	Upper
114	100		
63	25.1	21.0	31.6
88	18.3	14.9	22.3

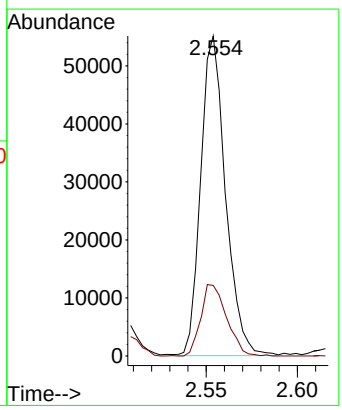


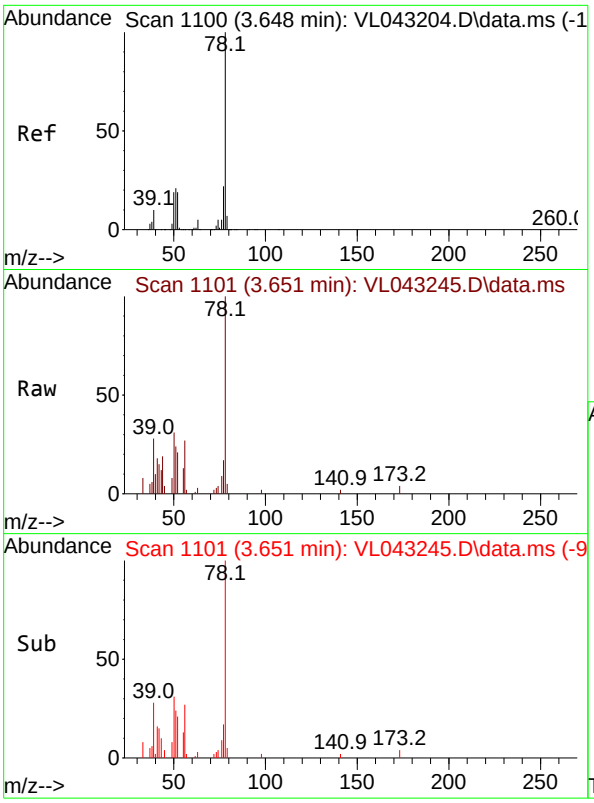


#34
2-Butanone
Concen: 2.590 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 43 Resp: 52225

Ion	Ratio	Lower	Upper
43	100		
72	23.2	18.1	27.1



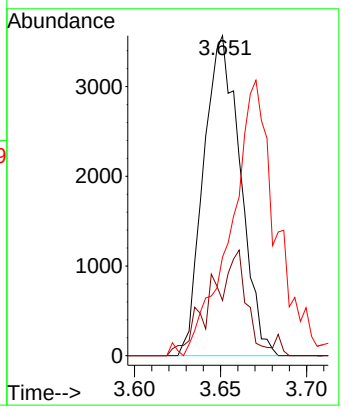


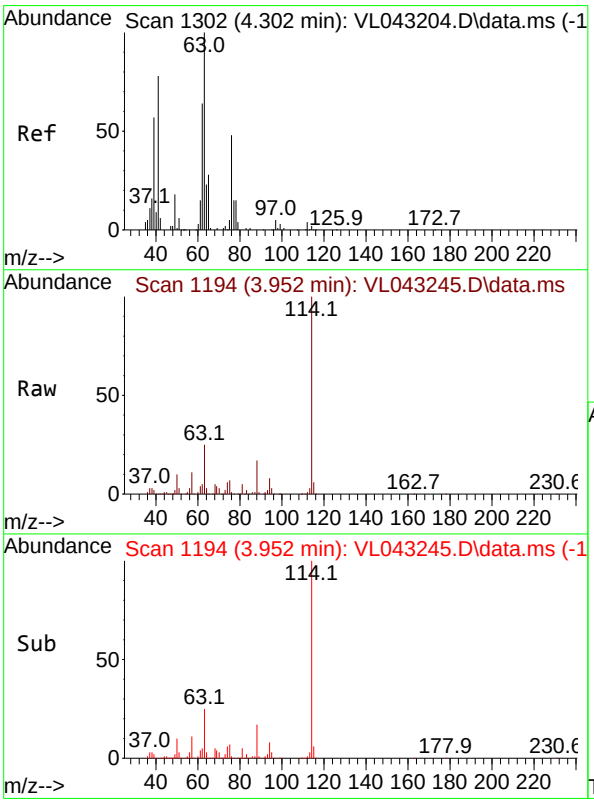
#36
Benzene
Concen: 0.193 ppbv
RT: 3.651 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 78 Resp: 5287

Ion	Ratio	Lower	Upper
78	100		
77	14.1	17.5	26.3#
50	29.3	15.5	23.3#

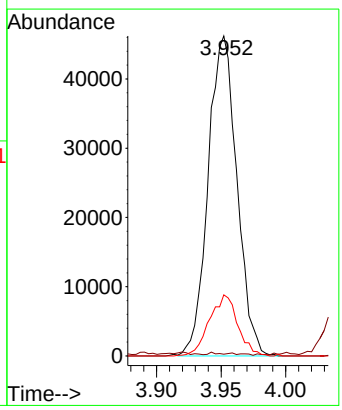


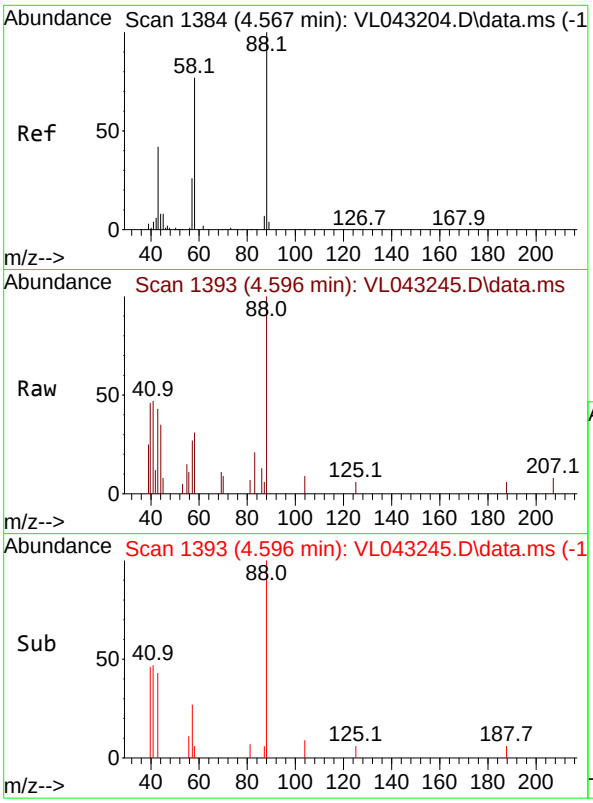


#39
1,2-Dichloropropane
Concen: 7.156 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.350 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 63 Resp: 71644

Ion	Ratio	Lower	Upper
63	100		
41	0.1	62.6	93.8#
62	18.9	51.0	76.6#



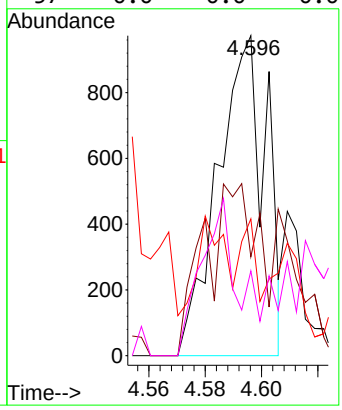


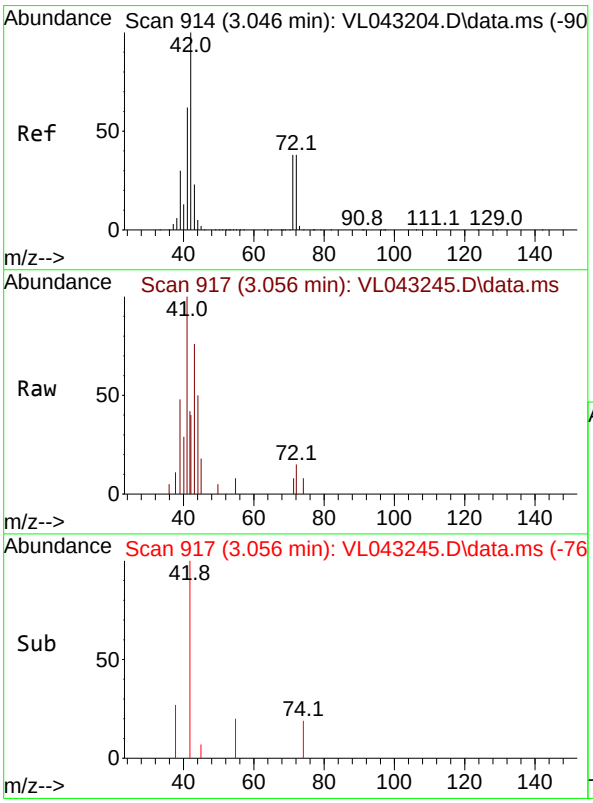
#40
1,4-Dioxane
Concen: 0.255 ppbv
RT: 4.596 min Scan# 1
Delta R.T. 0.029 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 88 Resp: 1146

Ion	Ratio	Lower	Upper
88	100		
58	96.5	63.0	94.6#
43	67.1	32.5	48.7#
57	0.0	0.0	0.0

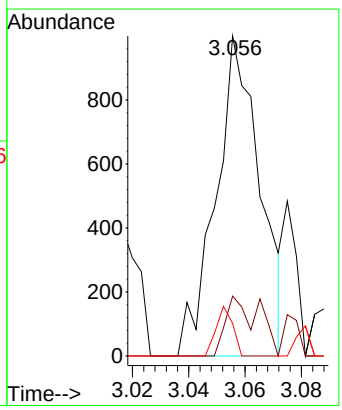


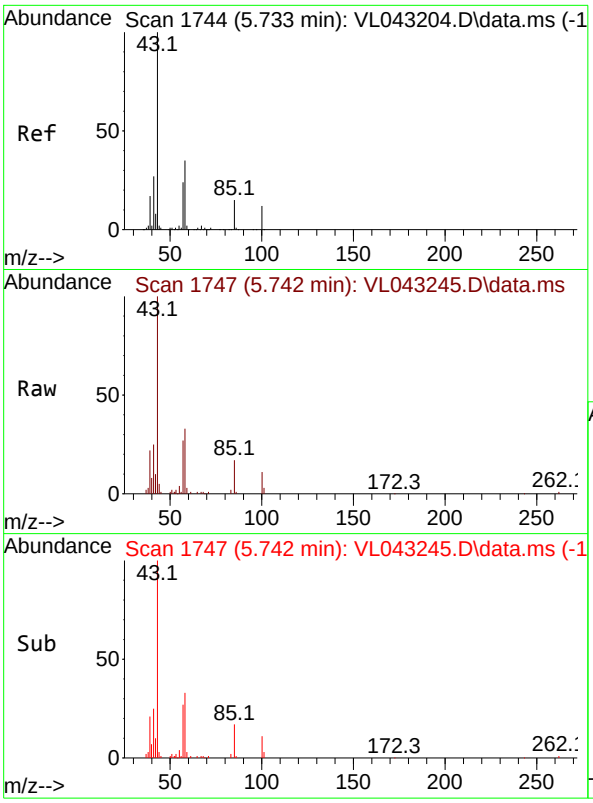


#41
Tetrahydrofuran
Concen: 0.098 ppbv
RT: 3.056 min Scan# 917
Delta R.T. 0.009 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 42 Resp: 1086

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.6	46.0#
71	5.9	30.5	45.7#



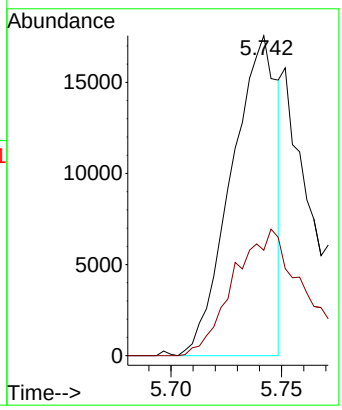


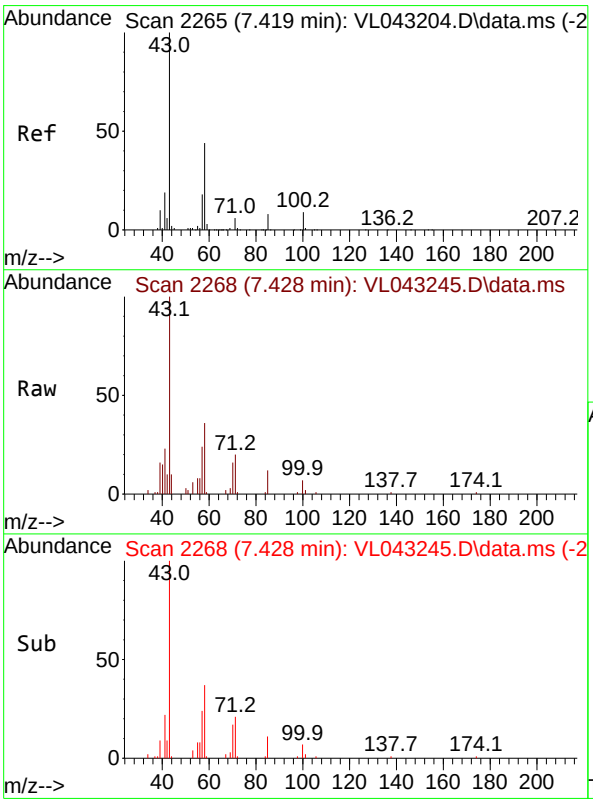
#50
4-Methyl-2-Pentanone
Concen: 0.885 ppbv
RT: 5.742 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 43 Resp: 25127

Ion	Ratio	Lower	Upper
43	100		
58	64.0	28.4	42.6#

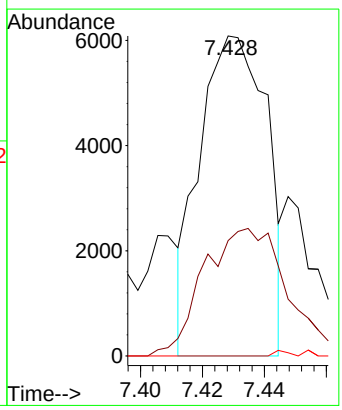


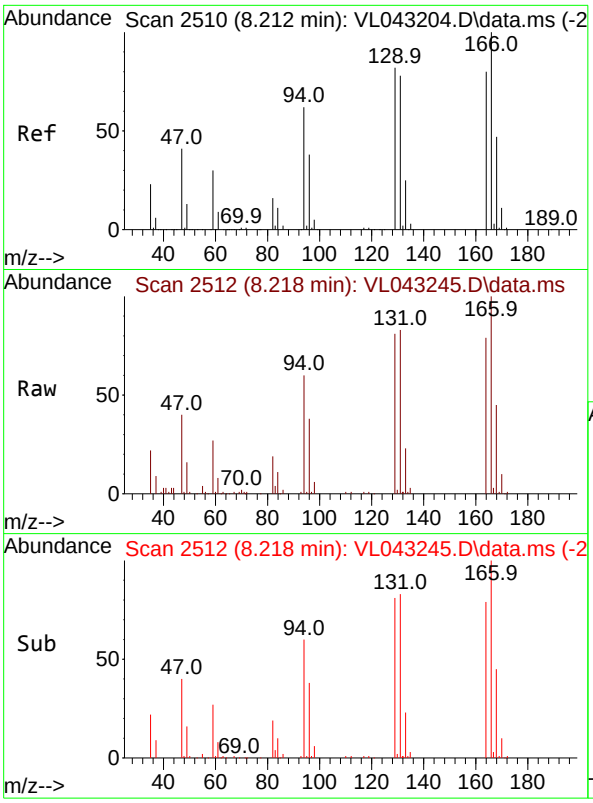


#51
2-Hexanone
Concen: 0.416 ppbv
RT: 7.428 min Scan# 2268
Delta R.T. 0.009 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 43 Resp: 9175

Ion	Ratio	Lower	Upper
43	100		
58	51.1	38.4	57.6
98	0.0	0.0	0.0



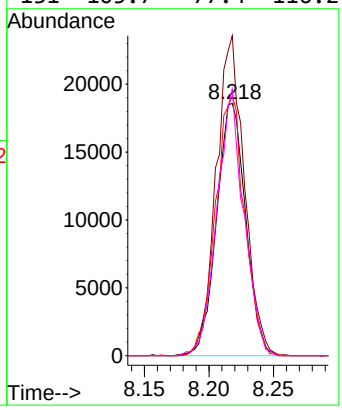


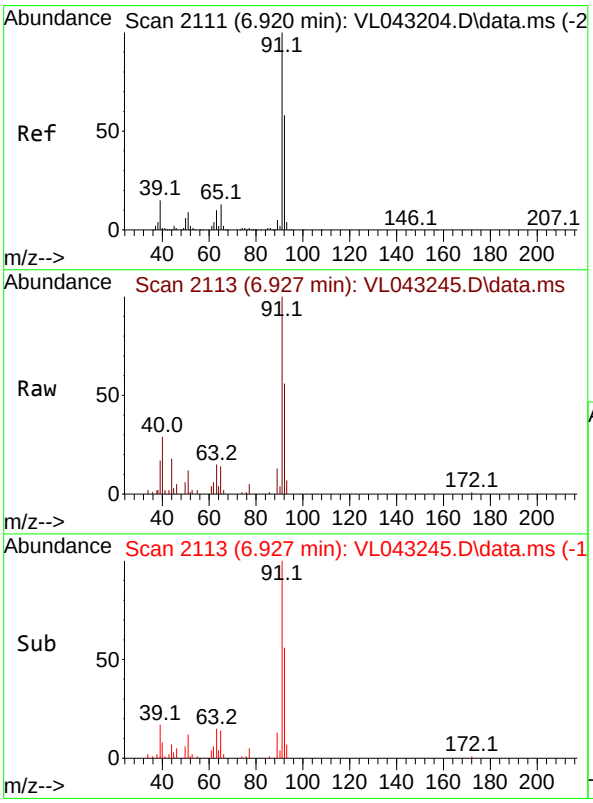
#52
Tetrachloroethene
Concen: 2.863 ppbv
RT: 8.218 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion:164 Resp: 29129

Ion	Ratio	Lower	Upper
164	100		
166	126.9	99.4	149.2
129	103.1	81.8	122.8
131	105.7	77.4	116.2

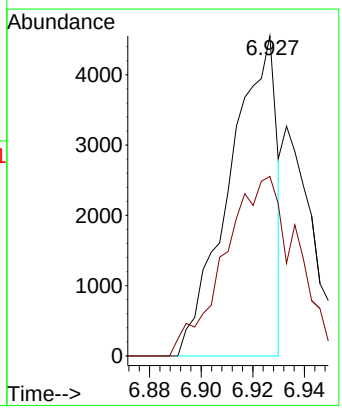


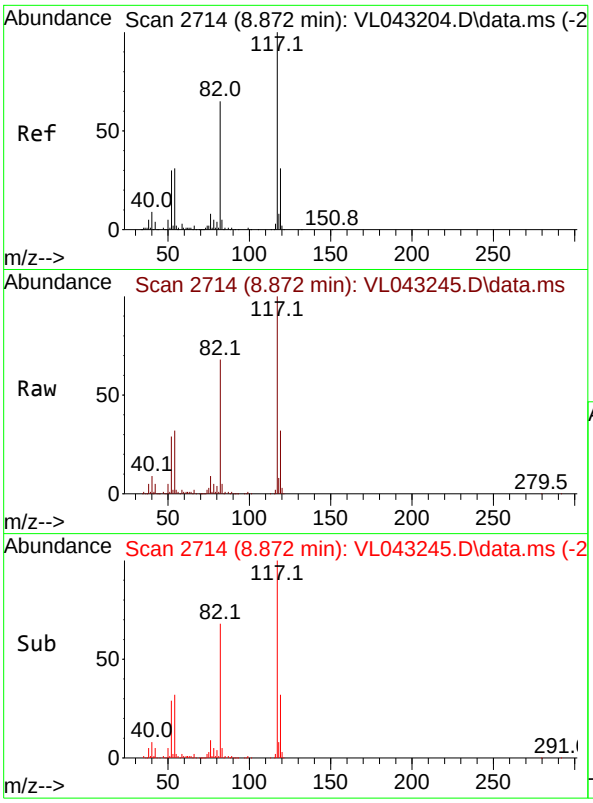


#53
Toluene
Concen: 0.178 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 91 Resp: 5760

Ion	Ratio	Lower	Upper
91	100		
92	86.3	47.4	71.0#



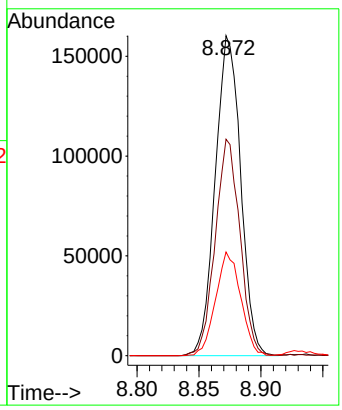


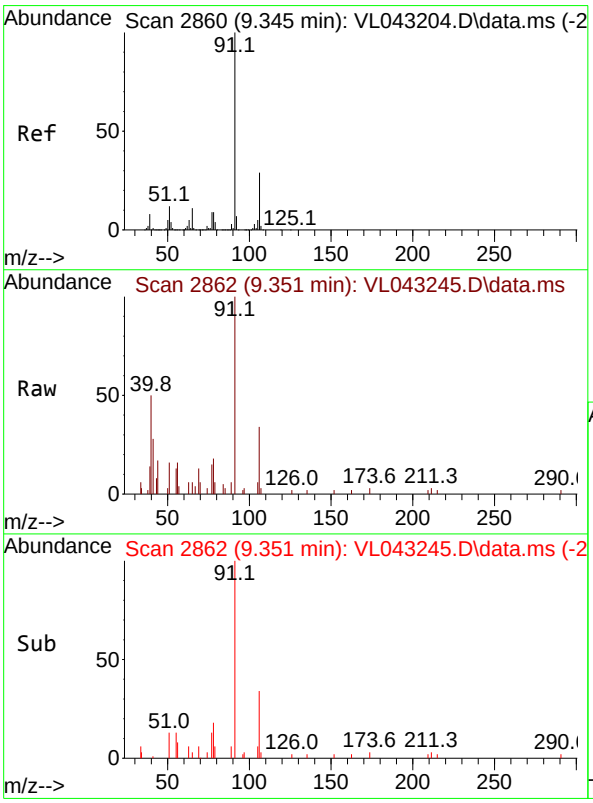
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion:117 Resp: 229034

Ion	Ratio	Lower	Upper
117	100		
82	66.1	56.1	84.1
119	32.1	25.0	37.6

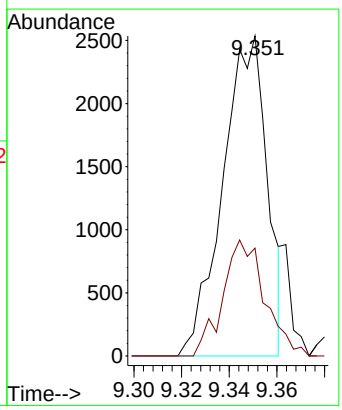


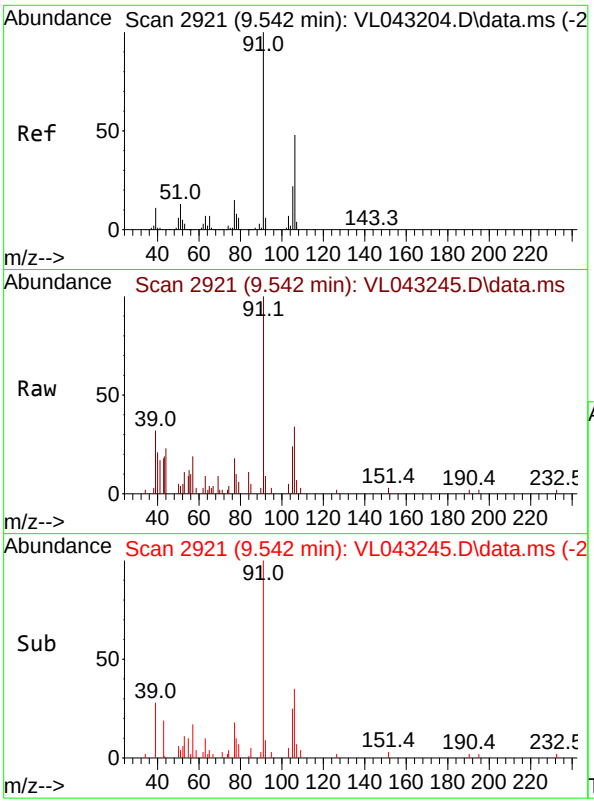


#58
Ethyl Benzene
Concen: 0.074 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 91 Resp: 3277

Ion	Ratio	Lower	Upper
91	100		
106	33.7	22.8	34.2



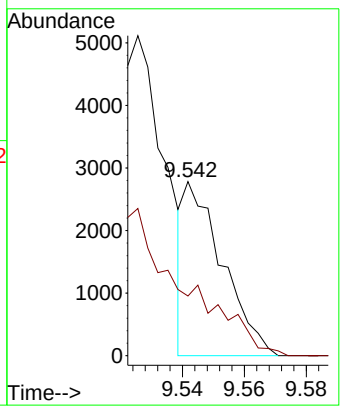


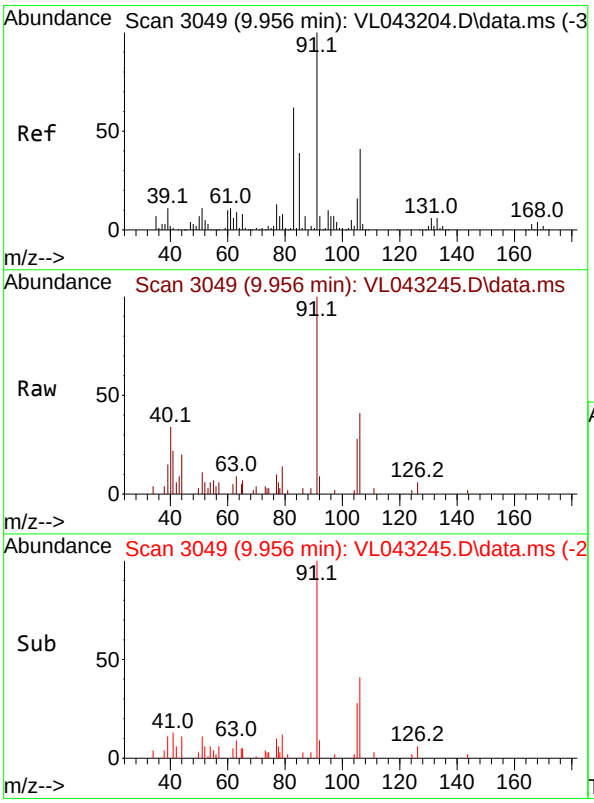
#59
m/p-Xylene
Concen: 0.068 ppbv
RT: 9.542 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 91 Resp: 2390

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

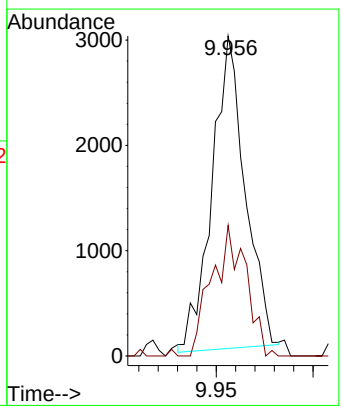


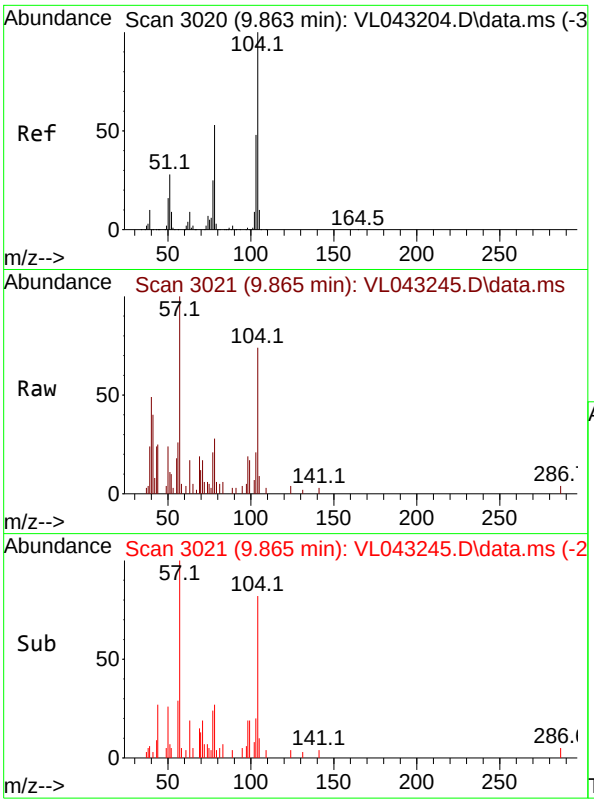


#60
o-Xylene
Concen: 0.100 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion: 91 Resp: 3538

Ion	Ratio	Lower	Upper
91	100		
106	43.0	20.9	62.8



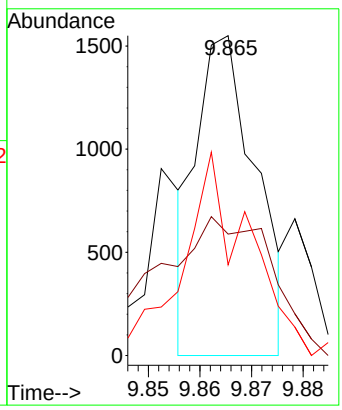


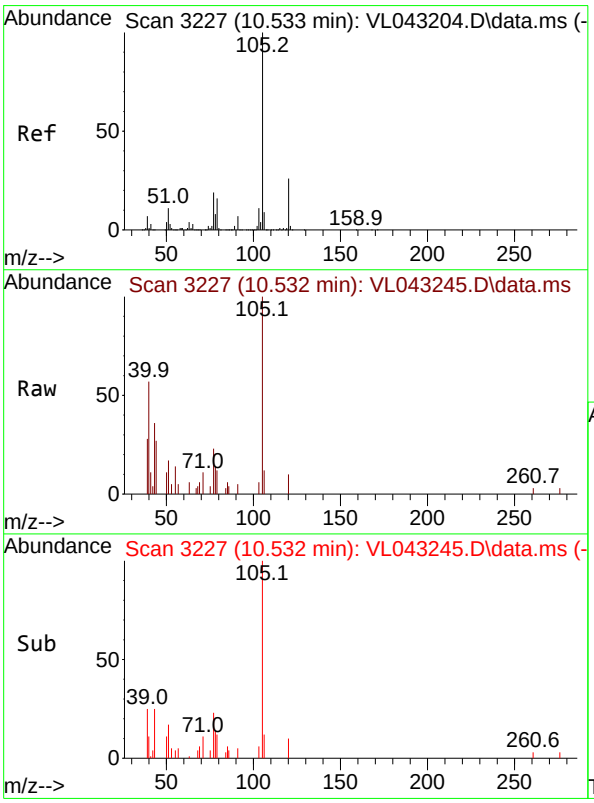
#61
Styrene
Concen: 0.080 ppbv
RT: 9.865 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion:104 Resp: 1231

Ion	Ratio	Lower	Upper
104	100		
78	85.1	42.1	63.1#
103	72.6	37.2	55.8#

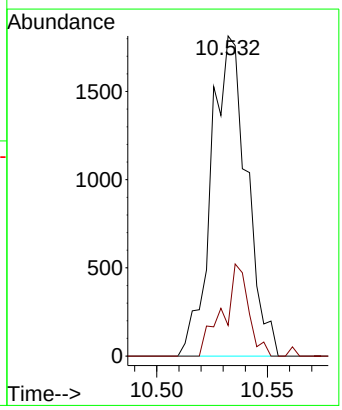


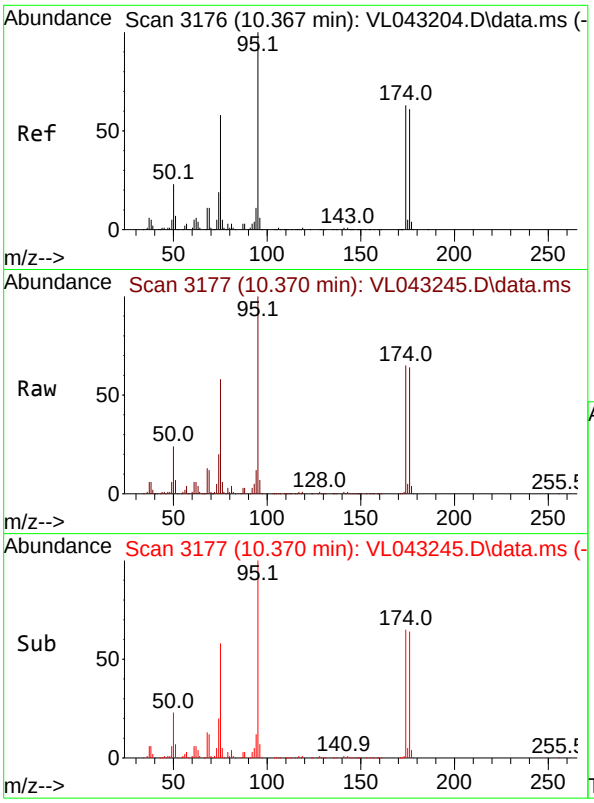


#62
Isopropylbenzene
Concen: 0.032 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion:105 Resp: 2024

Ion	Ratio	Lower	Upper
105	100		
120	21.1	19.8	29.8



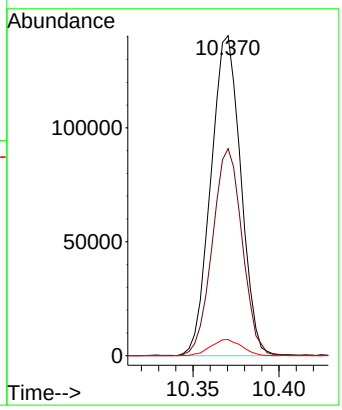


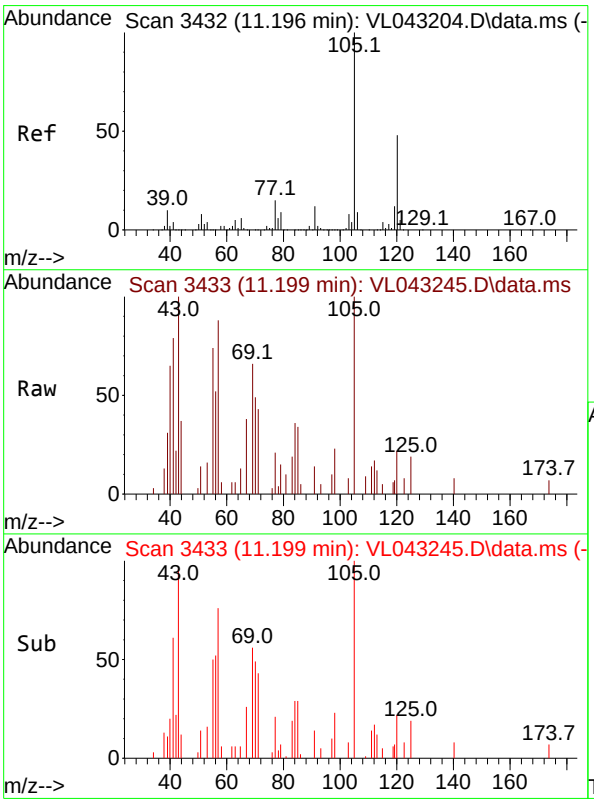
#68
1-Bromo-4-Fluorobenzene
Concen: 10.114 ppbv
RT: 10.370 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion: 95 Resp: 169788

Ion	Ratio	Lower	Upper
95	100		
174	64.7	50.2	75.2
175	5.3	4.1	6.1

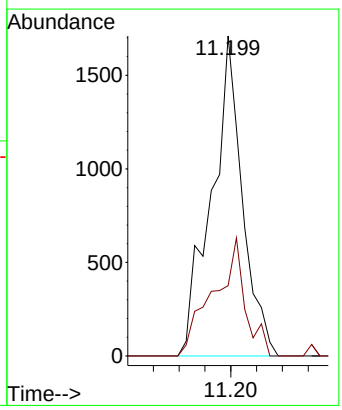


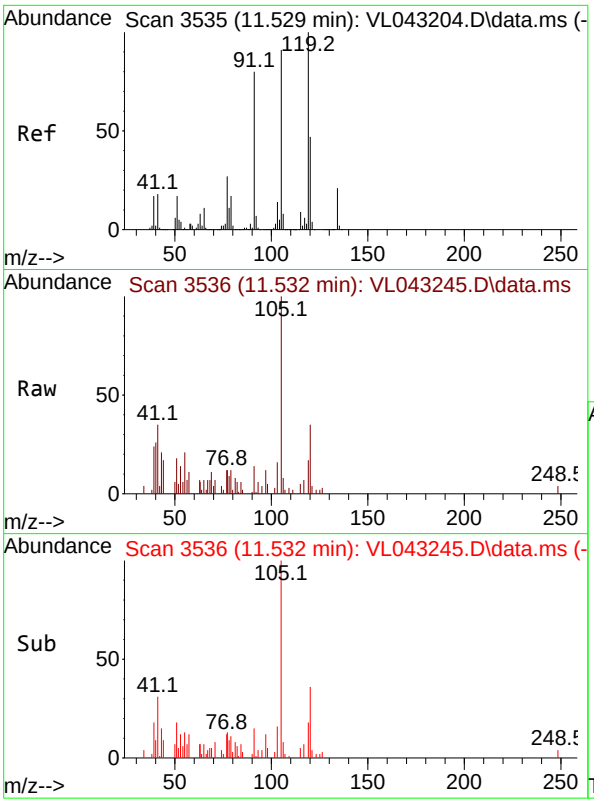


#73
1,3,5-Trimethylbenzene
Concen: 0.039 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion:105 Resp: 1424

Ion	Ratio	Lower	Upper
105	100		
120	22.0	38.6	57.8#



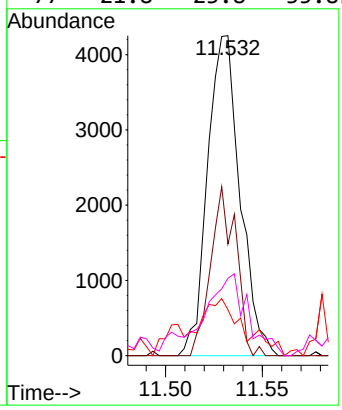


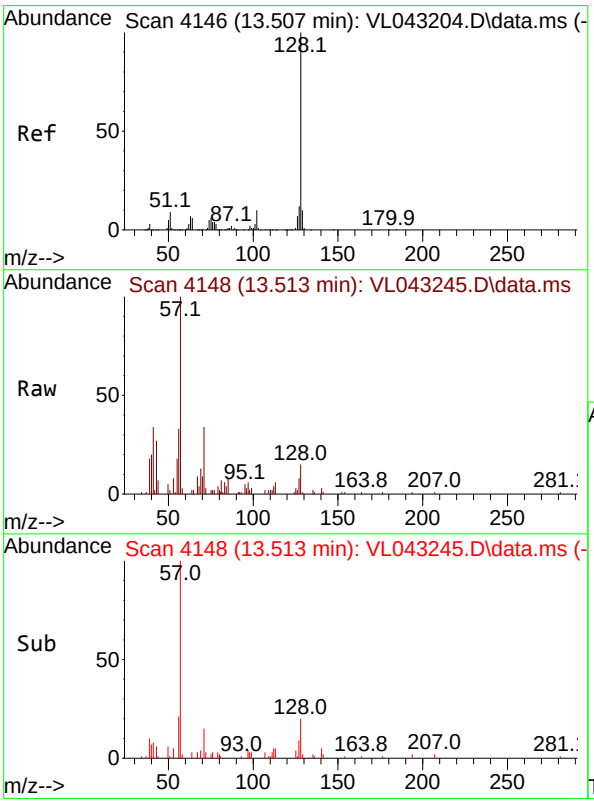
#74
1,2,4-Trimethylbenzene
Concen: 0.126 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1

Tgt Ion:105 Resp: 4969

Ion	Ratio	Lower	Upper
105	100		
120	34.9	41.7	62.5#
91	9.9	70.0	105.0#
77	21.8	23.8	35.8#

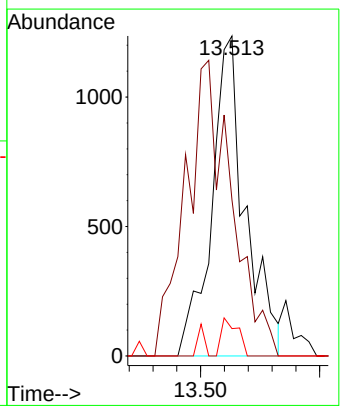




#79
Naphthalene
Concen: 0.035 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.006 min
Lab File: VL043245.D
Acq: 19 Nov 2025 18:21

Tgt Ion:128 Resp: 1216

Ion	Ratio	Lower	Upper
128	100		
127	48.8	9.9	14.9#
129	8.6	8.4	12.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043246.D
Acq On : 19 Nov 2025 18:55
Operator : SY/MD
Sample : Q3626-12 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Quant Time: Nov 20 00:09:15 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	107506	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	305536	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.868	117	246745	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	178880	9.890	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	4013	0.265	ppbv	99
4) Chloromethane	1.531	50	589	0.104	ppbv #	79
5) Vinyl Chloride	1.580	62	189	0.030	ppbv #	65
9) Propene	1.482	41	9652	1.524	ppbv #	86
10) Heptane	4.965	43	21077	1.118	ppbv	91
11) Trichlorofluoromethane	1.874	101	1783	0.121	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.136	101	355	0.031	ppbv #	12
13) Ethanol	1.722	45	782847	351.579	ppbv	98
15) Acetone	1.835	43	4713258	315.559	ppbv #	26
16) 1,3-Butadiene	1.599	39	11929	1.791	ppbv #	22
17) tert-Butyl alcohol	2.036	59	201360	10.271	ppbv	99
19) Isopropyl Alcohol	1.884	45	369187	43.742	ppbv #	36
20) Methylene Chloride	2.059	84	6888	0.847	ppbv	88
21) Allyl Chloride	2.036	41	51136	5.089	ppbv #	62
23) Vinyl Acetate	2.447	43	7506	0.416	ppbv #	84
25) Ethyl Acetate	2.822	43	18138	0.563	ppbv #	81
26) Hexane	2.819	57	25163	1.782	ppbv #	42
27) Carbon Disulfide	2.146	76	7909	0.549	ppbv #	72
29) Chloroform	2.842	83	958	0.048	ppbv	94
30) Cyclohexane	3.852	84	453	0.038	ppbv #	1
32) 1,1,1-Trichloroethane	3.363	97	1150	0.054	ppbv #	53
34) 2-Butanone	2.551	43	204250	9.470	ppbv	99
36) Benzene	3.651	78	4837	0.165	ppbv #	84
39) 1,2-Dichloropropane	3.955	63	76667	7.159	ppbv #	24
40) 1,4-Dioxane	4.577	88	27891	5.793	ppbv #	90
41) Tetrahydrofuran	3.052	42	17731	1.489	ppbv #	51
50) 4-Methyl-2-Pentanone	5.739	43	62912	2.071	ppbv #	60
51) 2-Hexanone	7.425	43	23719	1.005	ppbv #	96
52) Tetrachloroethene	8.215	164	56759	5.215	ppbv	98
53) Toluene	6.920	91	30132	0.870	ppbv	98
58) Ethyl Benzene	9.347	91	2729	0.057	ppbv	98
59) m/p-Xylene	9.522	91	16446	0.432	ppbv	99
60) o-Xylene	9.956	91	5915	0.156	ppbv	95
61) Styrene	9.859	104	1623	0.097	ppbv #	53
67) sec-Butylbenzene	11.765	105	3203	0.038	ppbv #	1
69) p-Isopropyltoluene	11.921	119	2340	0.033	ppbv #	85
73) 1,3,5-Trimethylbenzene	11.192	105	2175	0.056	ppbv	88
74) 1,2,4-Trimethylbenzene	11.529	105	4674	0.110	ppbv #	55
80) Naphthalene,2-methyl-	14.455	142	468	0.047	ppbv	87

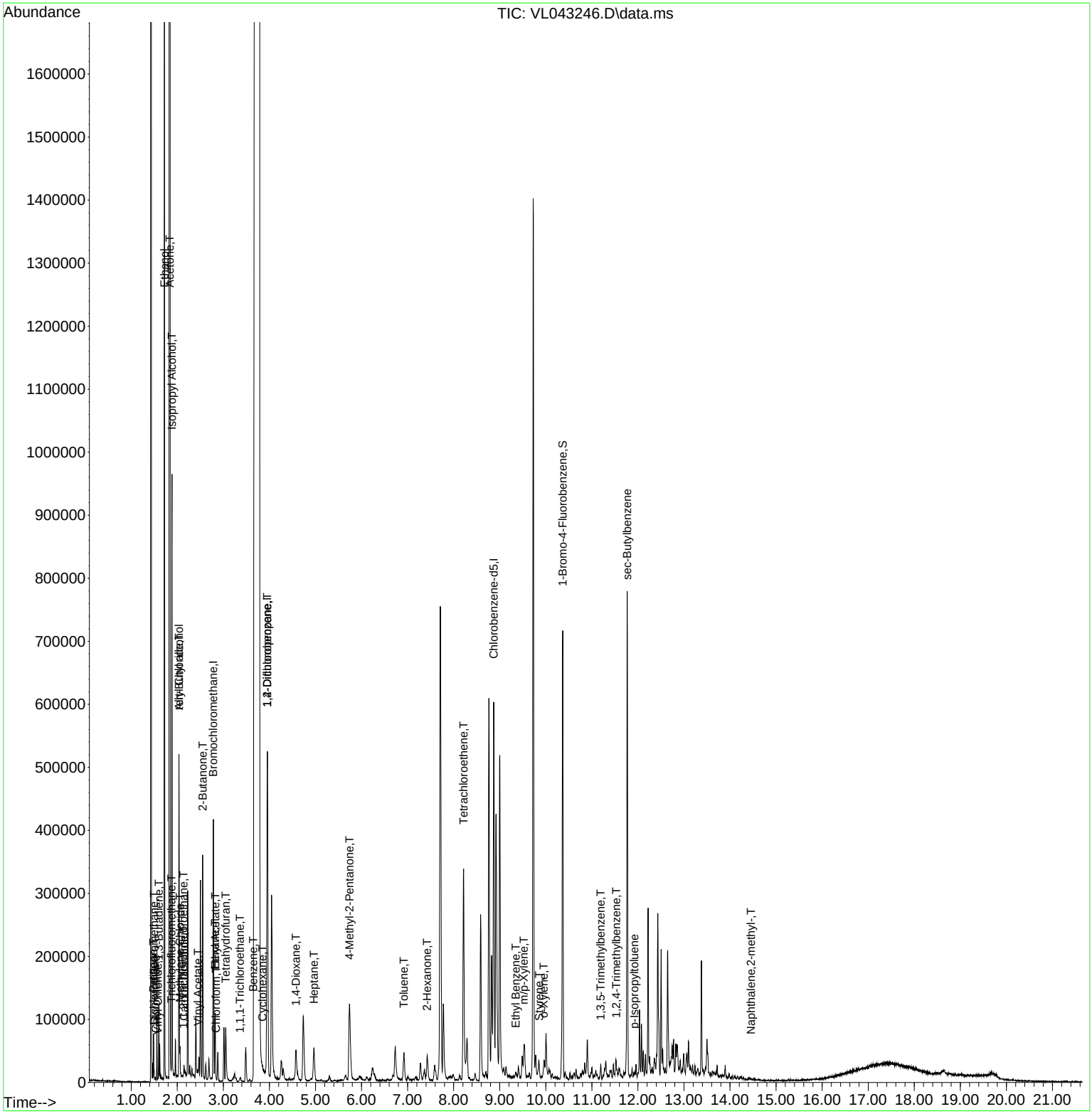
(#) = qualifier out of range (m) = manual integration (+) = signals summed

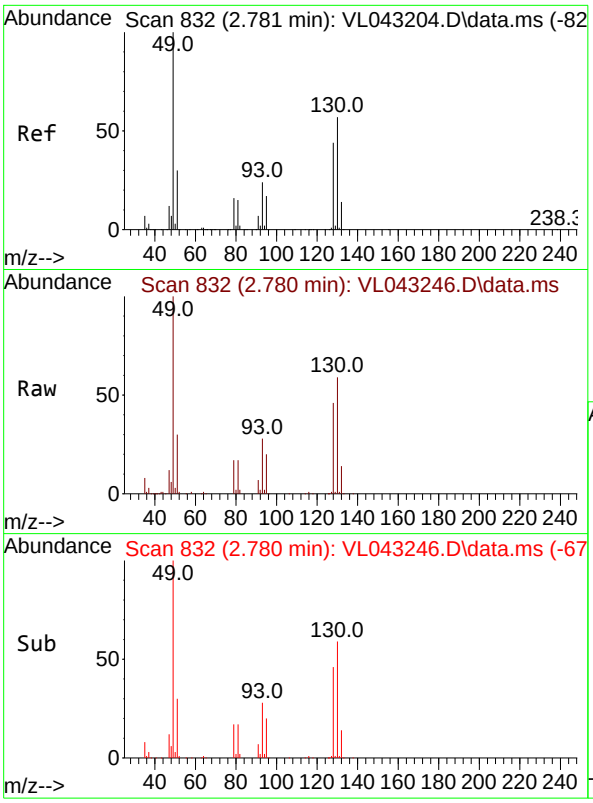
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043246.D
Acq On : 19 Nov 2025 18:55
Operator : SY/MD
Sample : Q3626-12 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Quant Time: Nov 20 00:09:15 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



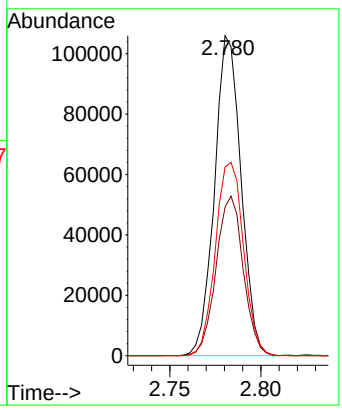


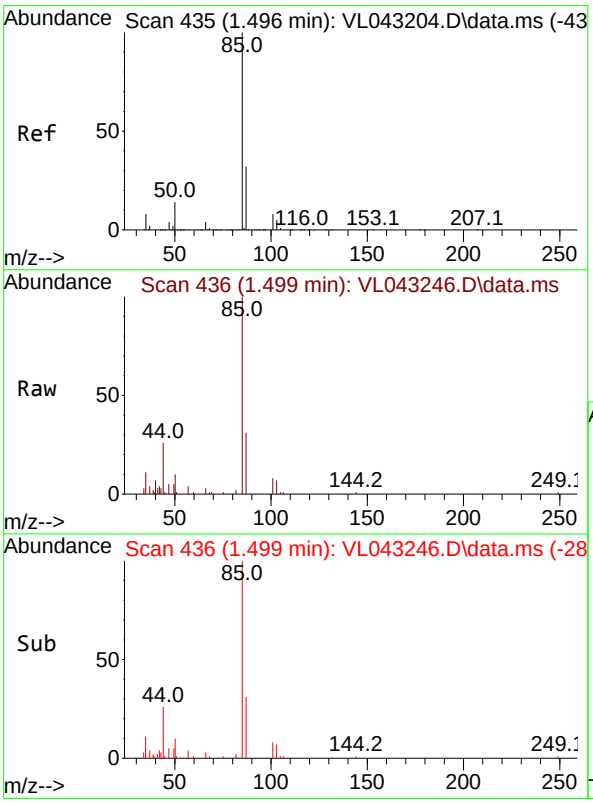
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.001 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 49 Resp: 107506

Ion	Ratio	Lower	Upper
49	100		
128	51.0	23.0	69.0
130	63.9	29.9	89.7

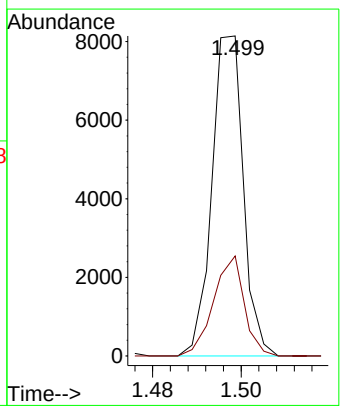


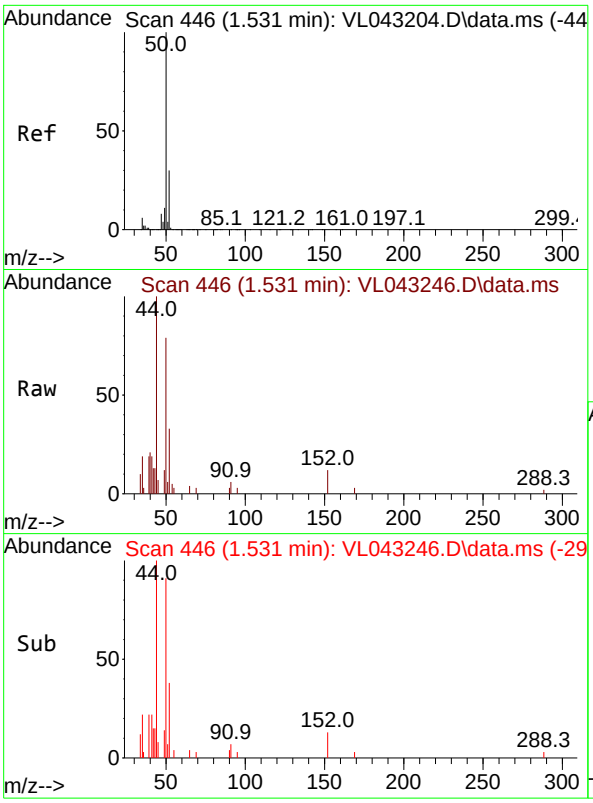


#2
Dichlorodifluoromethane
Concen: 0.265 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 85 Resp: 4013

Ion	Ratio	Lower	Upper
85	100		
87	31.3	25.4	38.2



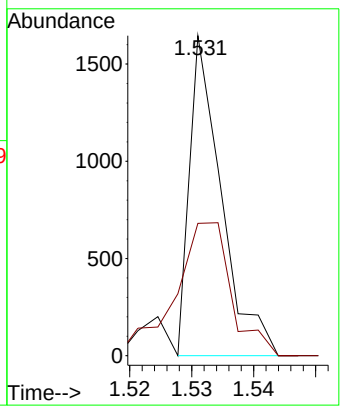


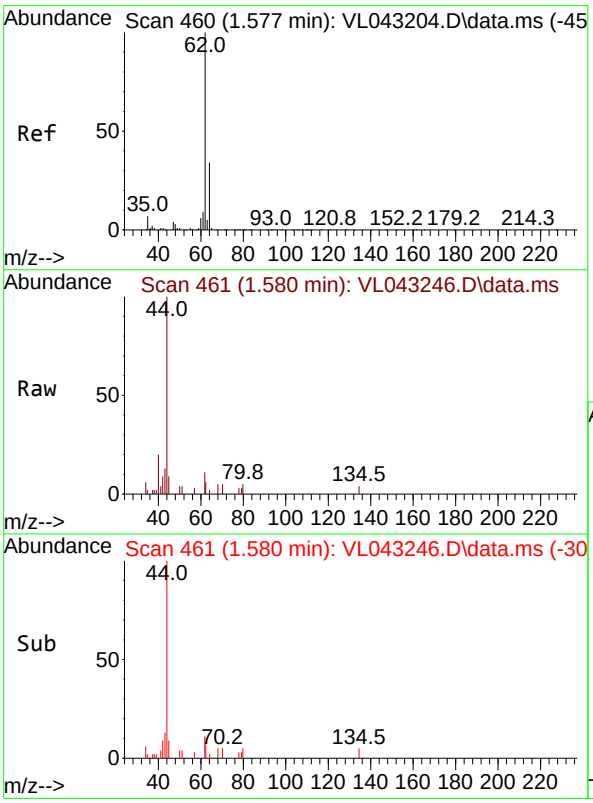
#4
Chloromethane
Concen: 0.104 ppbv
RT: 1.531 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 50 Resp: 589

Ion	Ratio	Lower	Upper
50	100		
52	41.4	24.1	36.1#

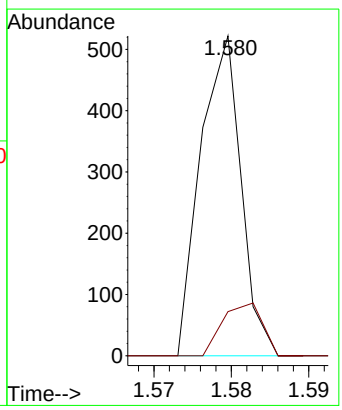


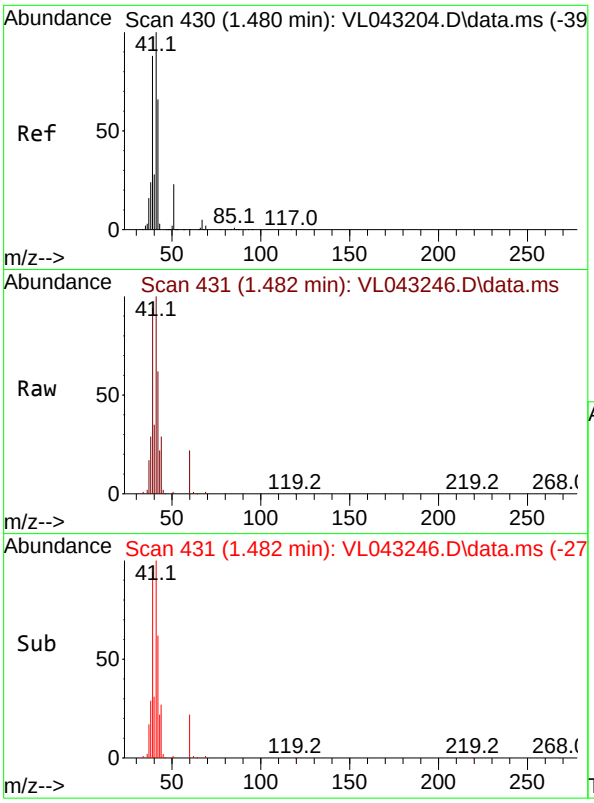


#5
Vinyl Chloride
Concen: 0.030 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 62 Resp: 189

Ion	Ratio	Lower	Upper
62	100		
64	13.8	27.3	40.9#



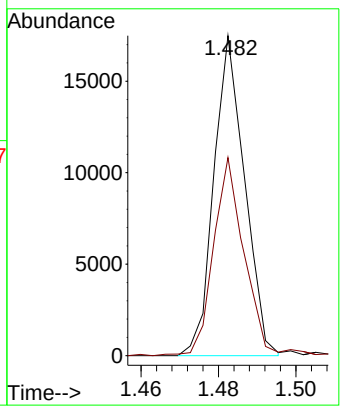


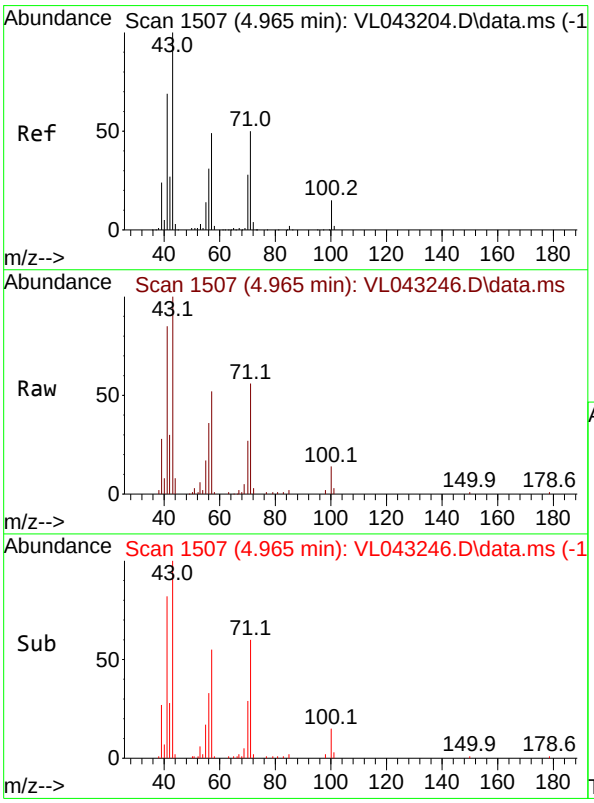
#9
Propene
Concen: 1.524 ppbv
RT: 1.482 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 41 Resp: 9652

Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5#

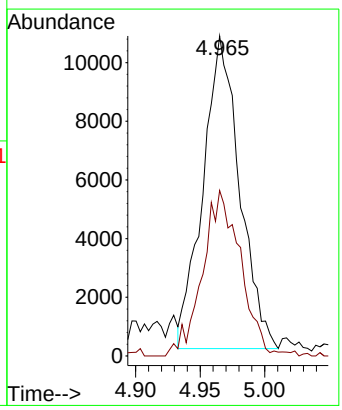


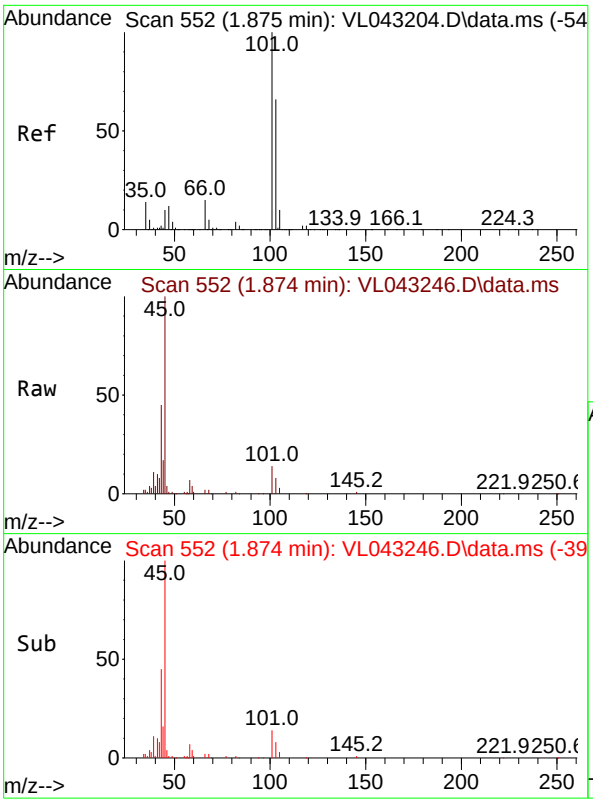


#10
Heptane
Concen: 1.118 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 43 Resp: 21077

Ion	Ratio	Lower	Upper
43	100		
57	55.9	39.7	59.5



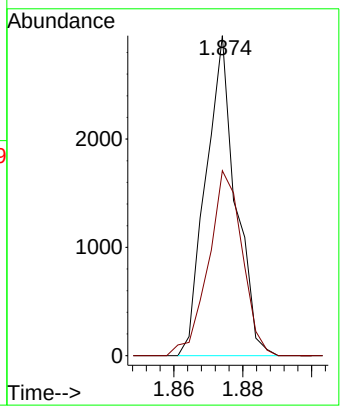


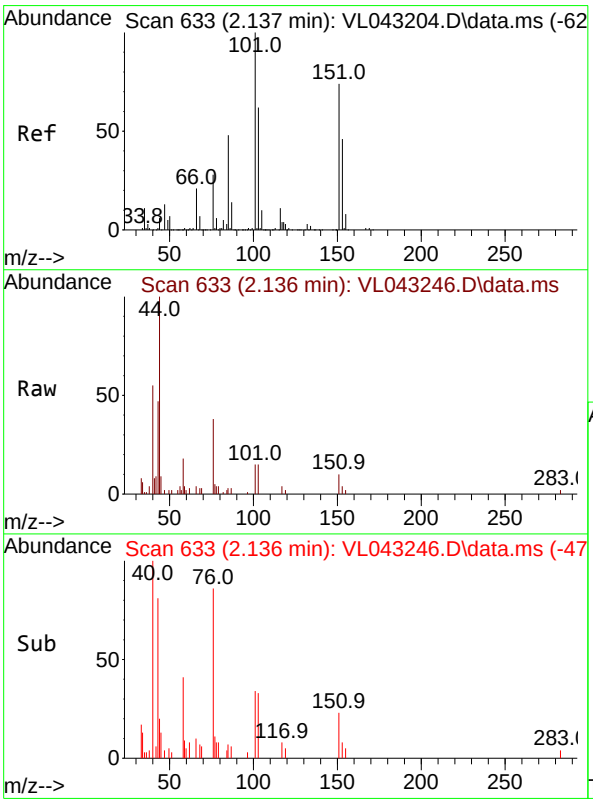
#11
Trichlorofluoromethane
Concen: 0.121 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion:101 Resp: 1783

Ion	Ratio	Lower	Upper
101	100		
103	57.8	52.6	79.0

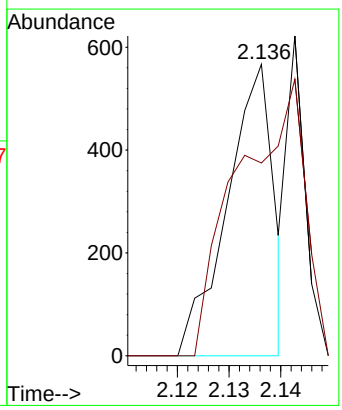


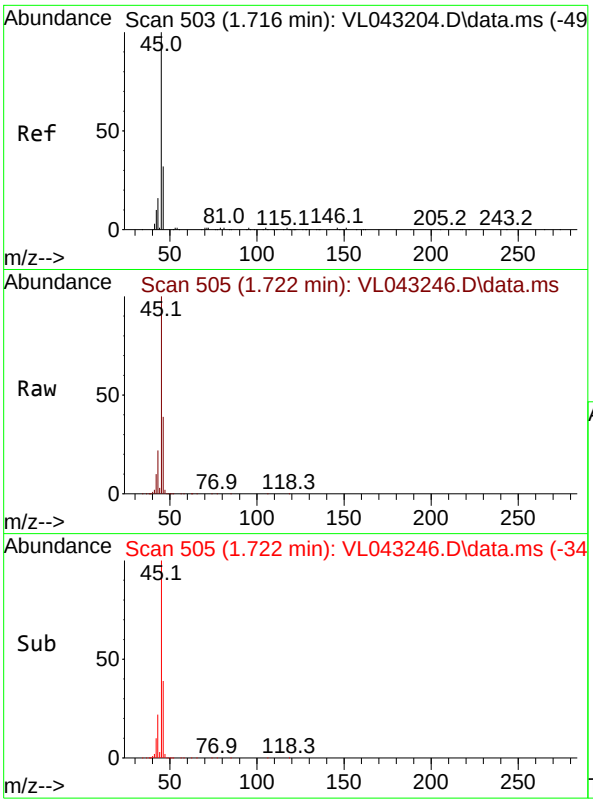


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.031 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion:101 Resp: 355

Ion	Ratio	Lower	Upper
101	100		
151	0.0	59.2	88.8#



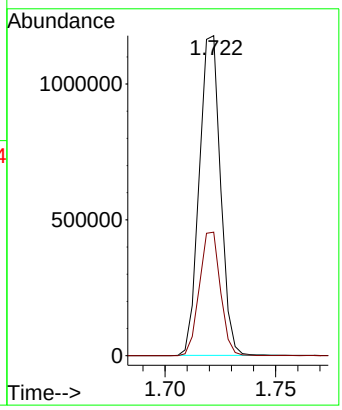


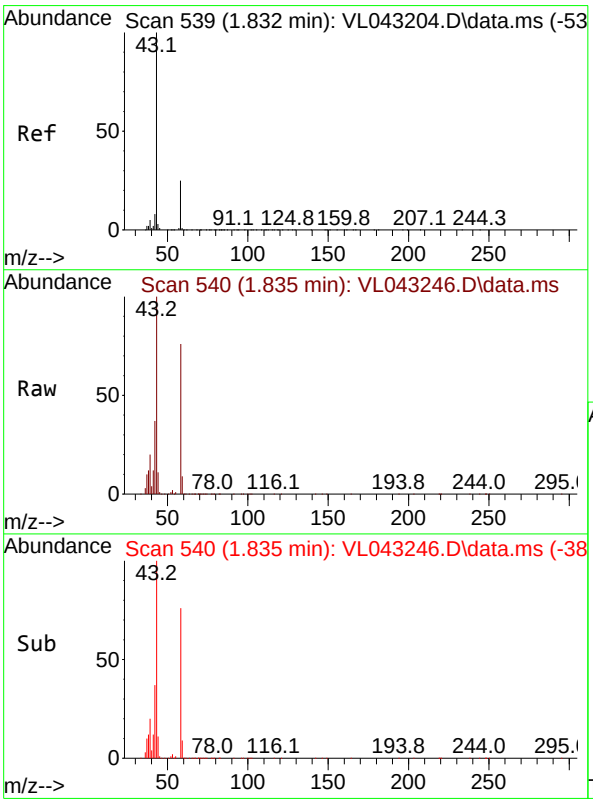
#13
Ethanol
Concen: 351.579 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 45 Resp: 782847

Ion	Ratio	Lower	Upper
45	100		
46	38.4	15.0	59.8

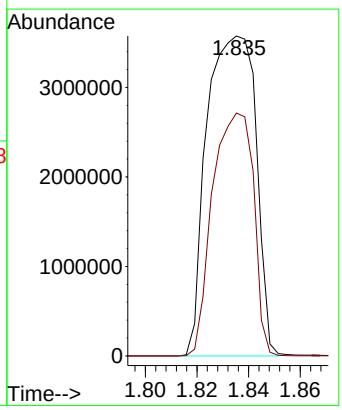


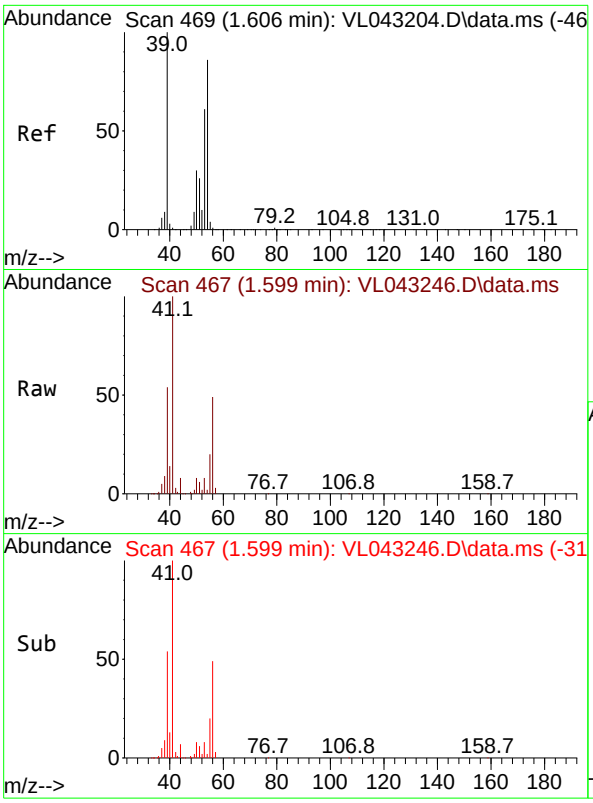


#15
Acetone
Concen: 315.559 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 43 Resp: 4713258

Ion	Ratio	Lower	Upper
43	100		
58	63.4	20.7	31.1#



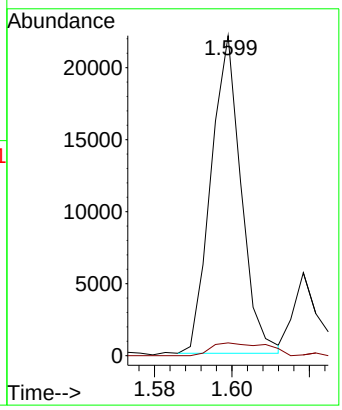


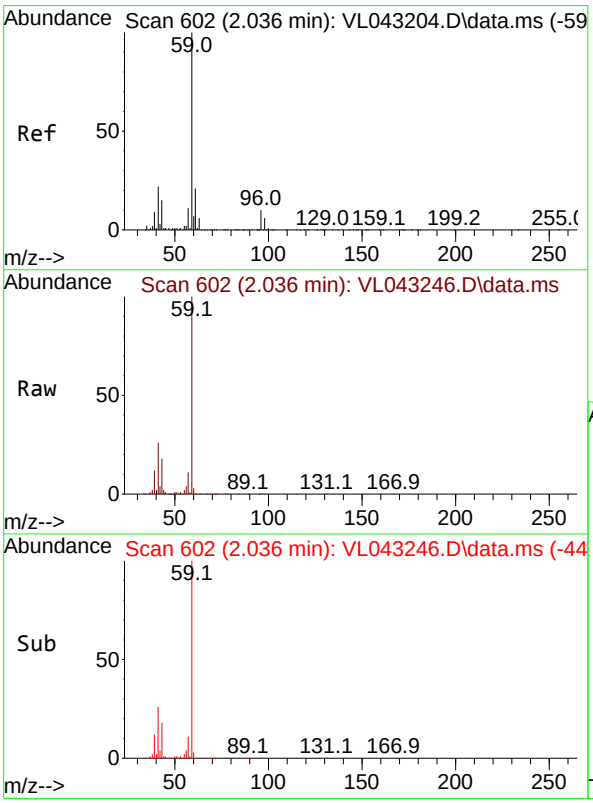
#16
1,3-Butadiene
Concen: 1.791 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 39 Resp: 11929

Ion	Ratio	Lower	Upper
39	100		
54	8.4	59.4	89.2#

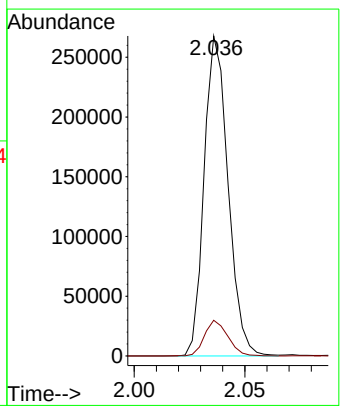


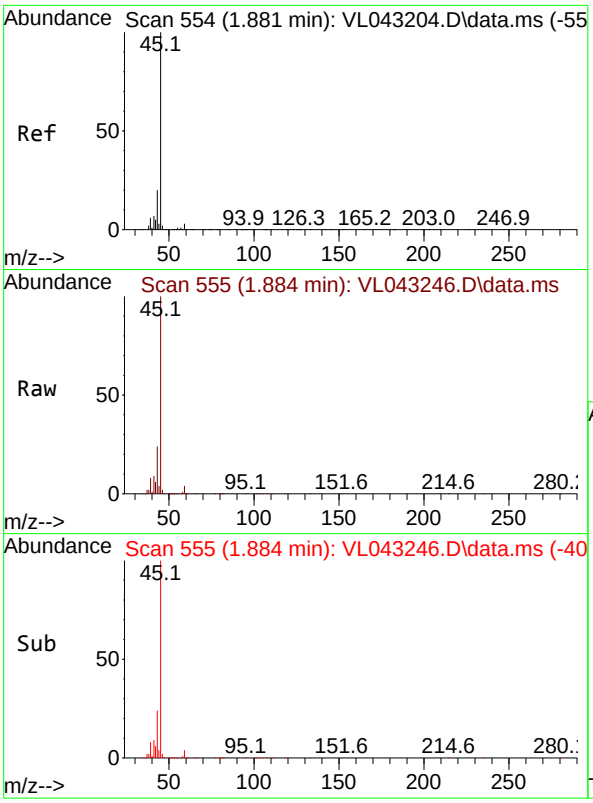


#17
tert-Butyl alcohol
Concen: 10.271 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 59 Resp: 201360

Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.0	13.4



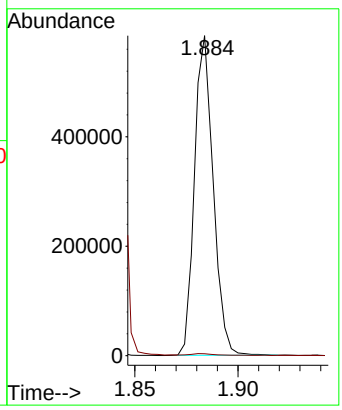


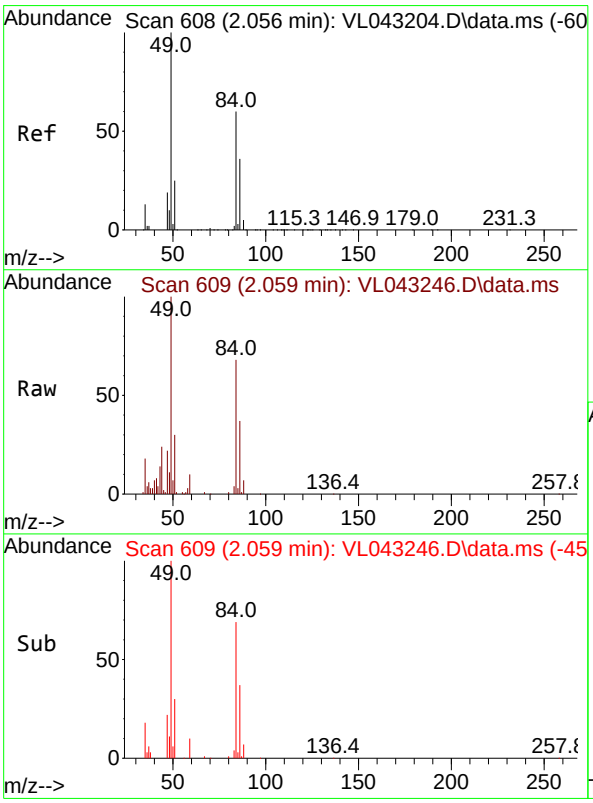
#19
Isopropyl Alcohol
Concen: 43.742 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 45 Resp: 369187

Ion	Ratio	Lower	Upper
45	100		
58	0.0	31.3	46.9#

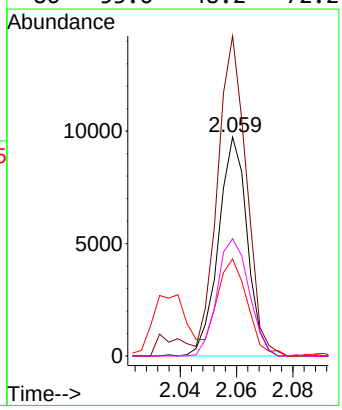


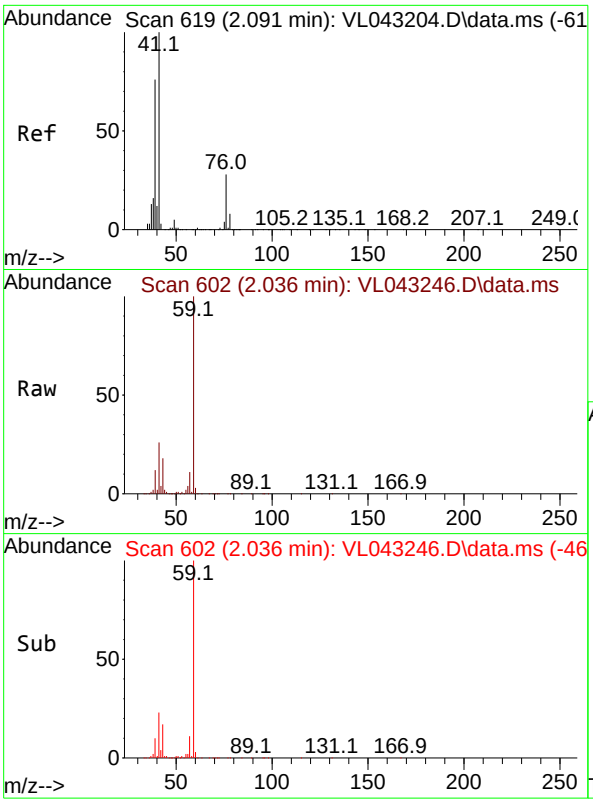


#20
Methylene Chloride
Concen: 0.847 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 84 Resp: 6888

Ion	Ratio	Lower	Upper
84	100		
49	144.2	132.9	199.3
51	41.8	34.8	52.2
86	53.6	48.2	72.2



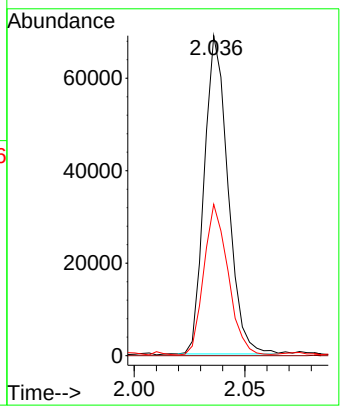


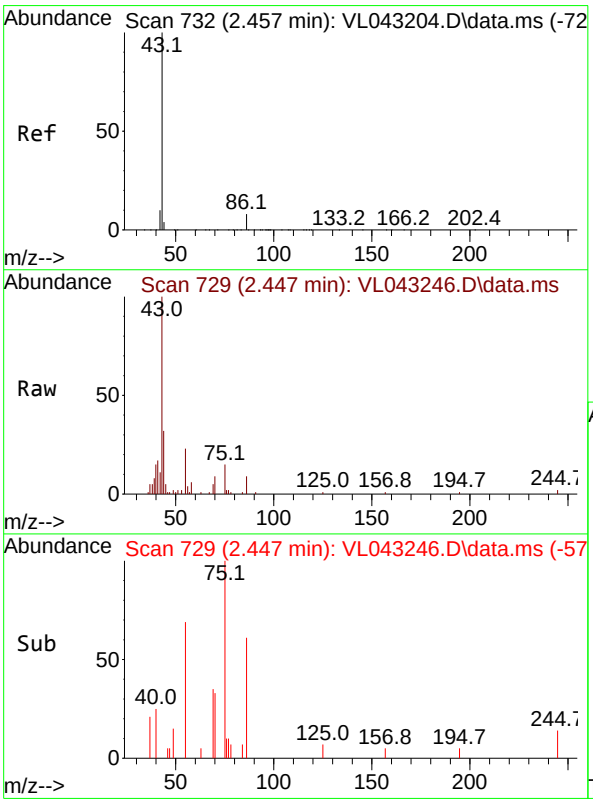
#21
Allyl Chloride
Concen: 5.089 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.055 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 41 Resp: 51136

Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.1	33.1#
39	47.8	61.0	91.4#

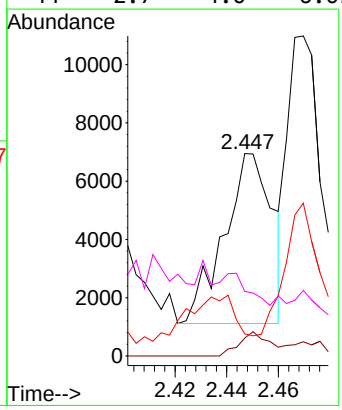


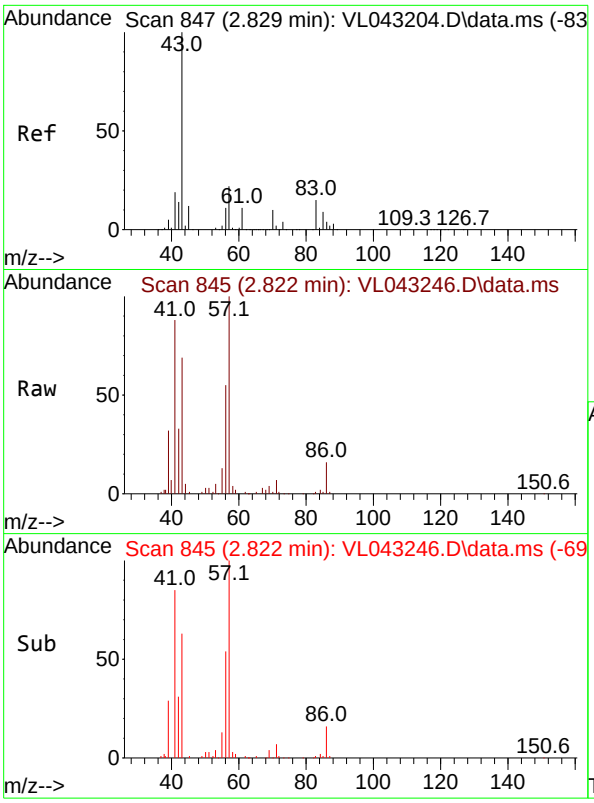


#23
Vinyl Acetate
Concen: 0.416 ppbv
RT: 2.447 min Scan# 729
Delta R.T. -0.010 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 43 Resp: 7506

Ion	Ratio	Lower	Upper
43	100		
86	10.6	6.2	9.2#
42	0.0	8.0	12.0#
44	2.7	4.0	6.0#



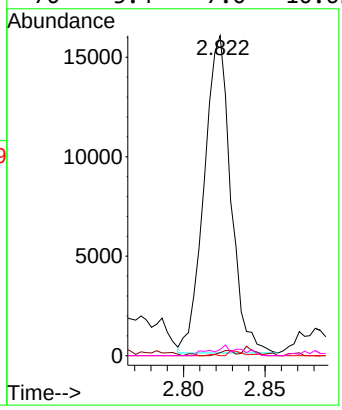


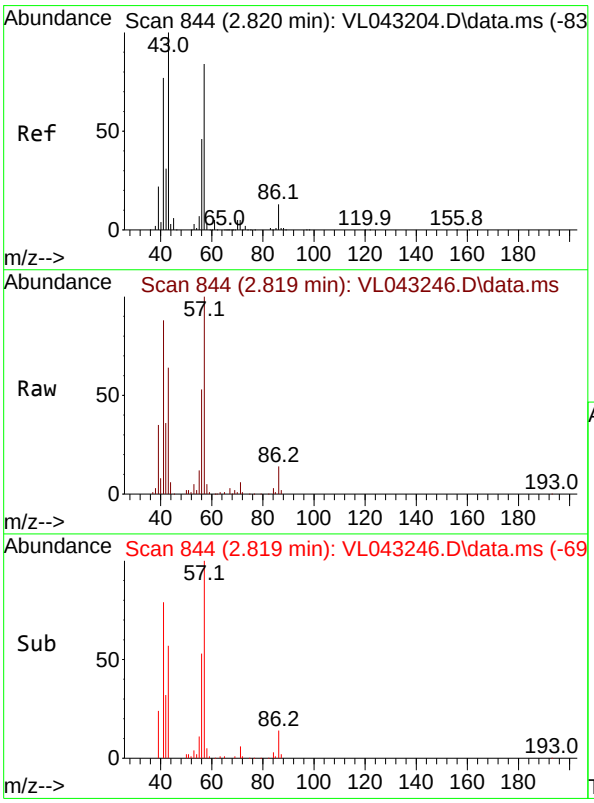
#25
Ethyl Acetate
Concen: 0.563 ppbv
RT: 2.822 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 43 Resp: 18138

Ion	Ratio	Lower	Upper
43	100		
45	2.6	8.1	12.1#
61	1.0	7.0	10.4#
70	3.4	7.0	10.6#

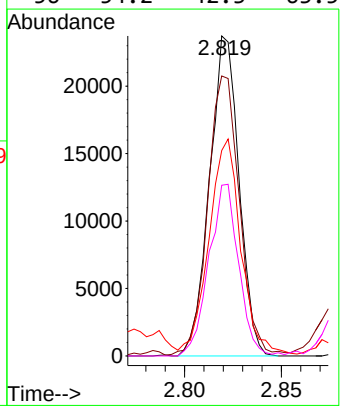


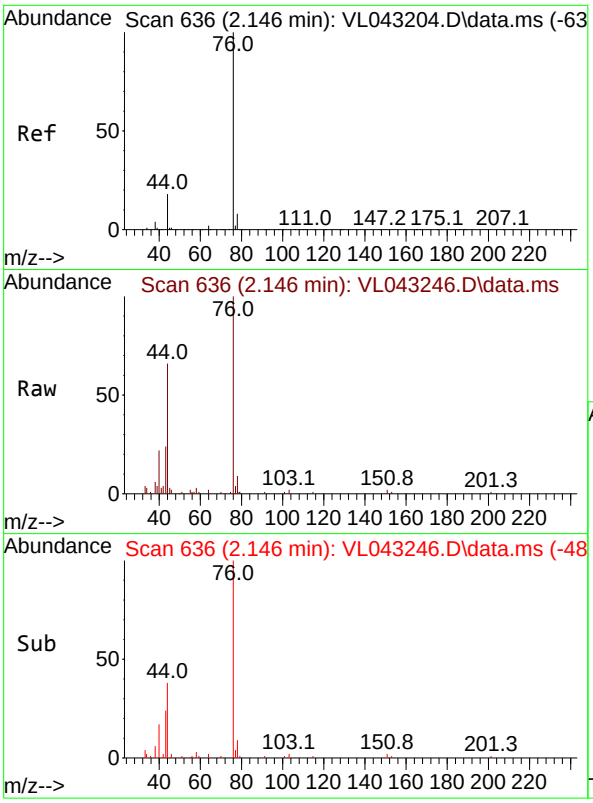


#26
Hexane
Concen: 1.782 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 57 Resp: 25163

Ion	Ratio	Lower	Upper
57	100		
41	91.9	74.6	111.8
43	70.6	179.0	268.4#
56	54.2	42.3	63.5



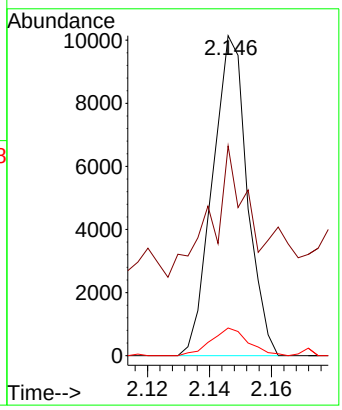


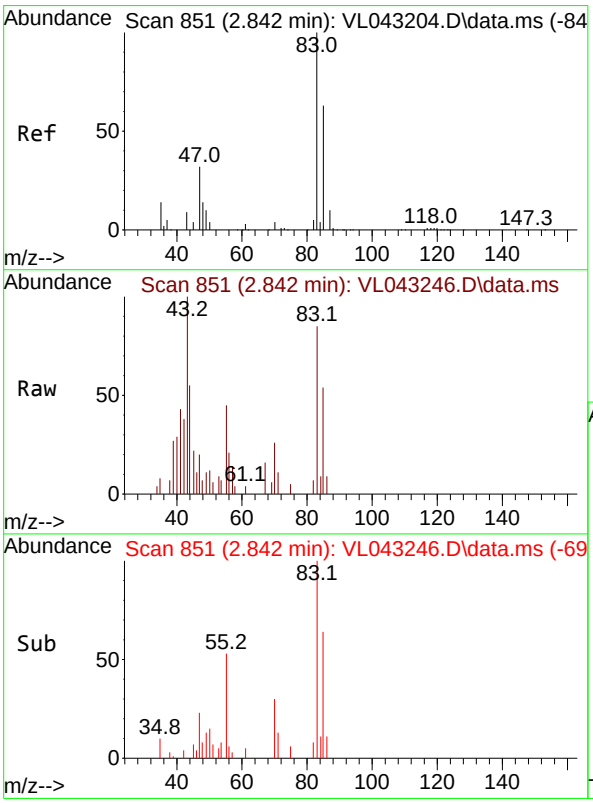
#27
Carbon Disulfide
Concen: 0.549 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 76 Resp: 7909

Ion	Ratio	Lower	Upper
76	100		
44	0.0	16.1	24.1#
78	10.9	9.6	14.4

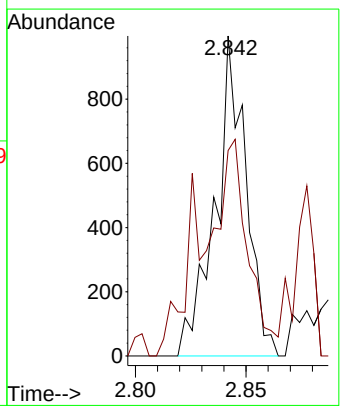


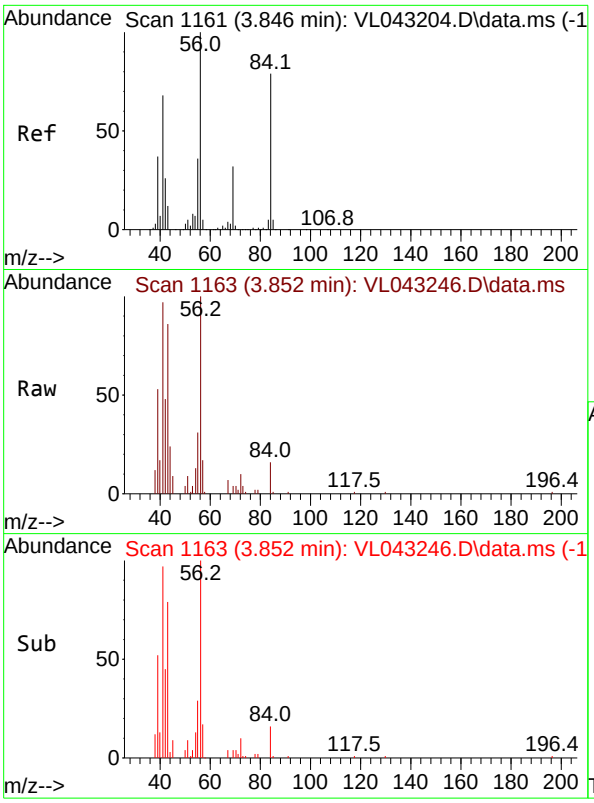


#29
Chloroform
Concen: 0.048 ppbv
RT: 2.842 min Scan# 851
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 83 Resp: 958

Ion	Ratio	Lower	Upper
83	100		
85	58.3	50.5	75.7



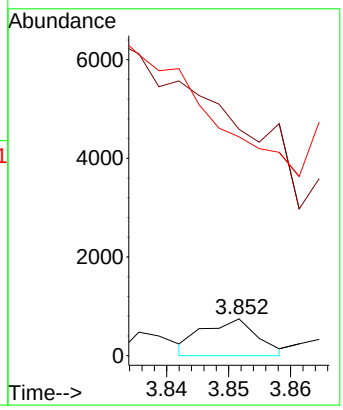


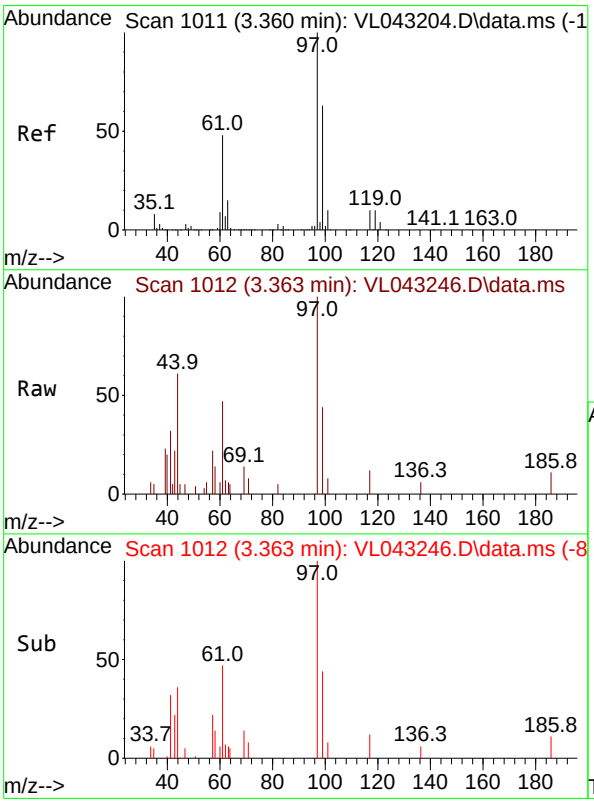
#30
Cyclohexane
Concen: 0.038 ppbv
RT: 3.852 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 84 Resp: 453

Ion	Ratio	Lower	Upper
84	100		
56	0.0	104.7	157.1#
41	0.0	69.0	103.6#

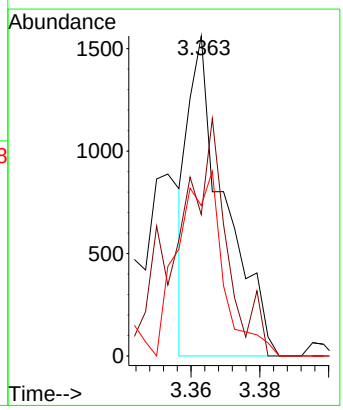


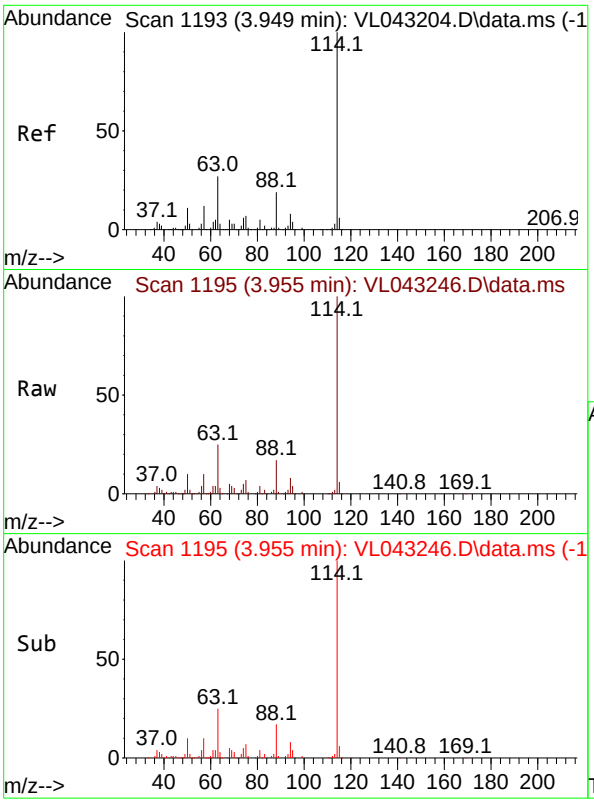


#32
1,1,1-Trichloroethane
Concen: 0.054 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 97 Resp: 1150

Ion	Ratio	Lower	Upper
97	100		
99	101.0	50.3	75.5#
61	79.3	38.9	58.3#



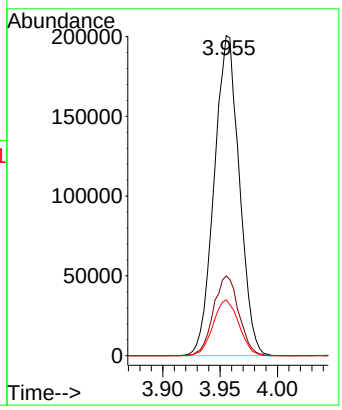


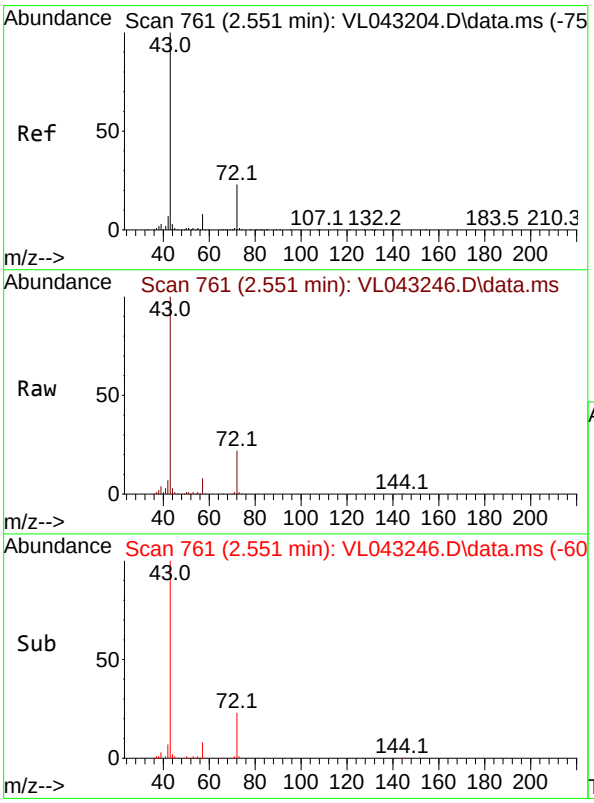
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion:114 Resp: 305536

Ion	Ratio	Lower	Upper
114	100		
63	25.1	21.0	31.6
88	17.9	14.9	22.3

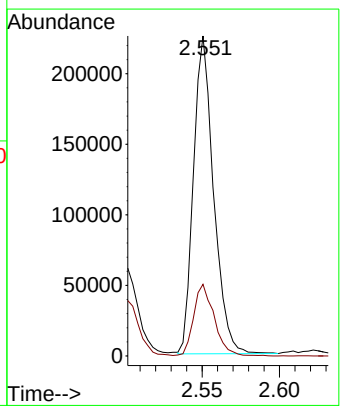


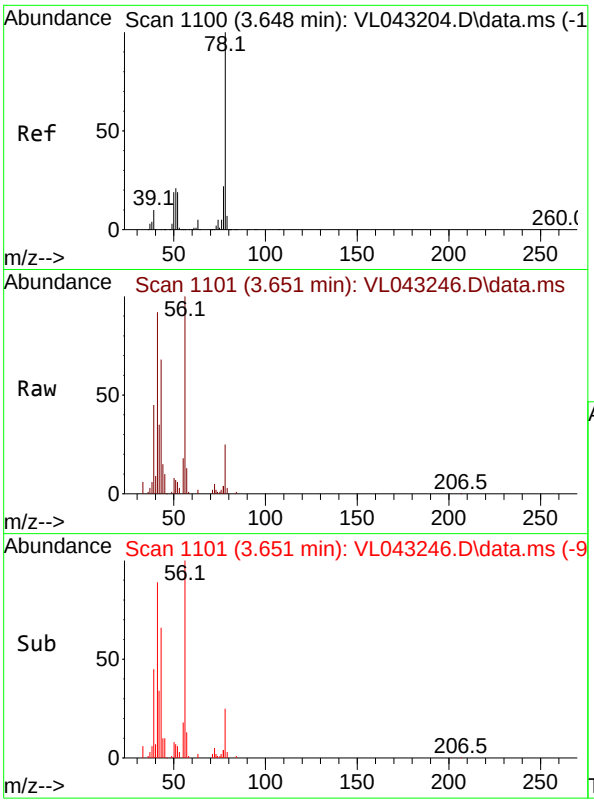


#34
2-Butanone
Concen: 9.470 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 43 Resp: 204250

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.1	27.1



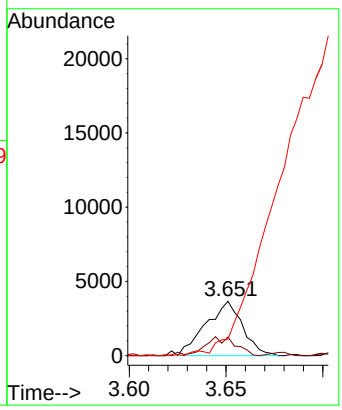


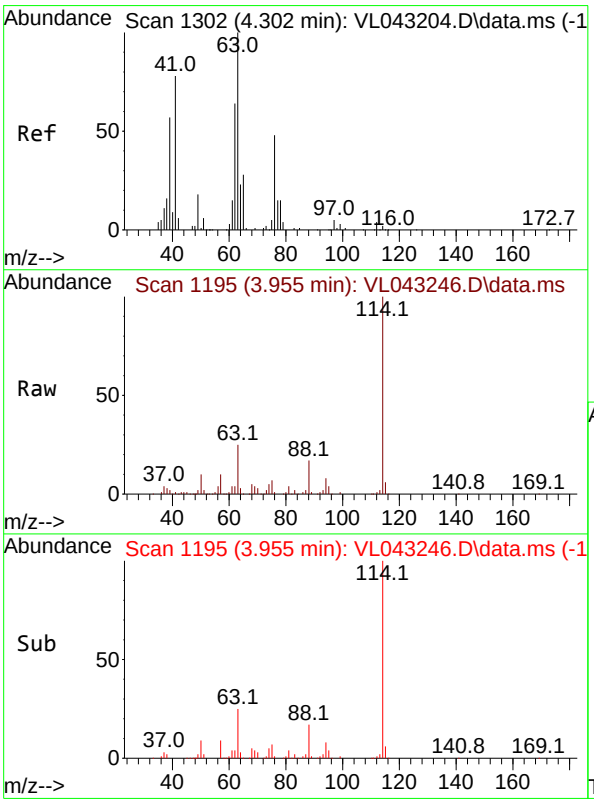
#36
Benzene
Concen: 0.165 ppbv
RT: 3.651 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 78 Resp: 4837

Ion	Ratio	Lower	Upper
78	100		
77	28.3	17.5	26.3#
50	27.9	15.5	23.3#

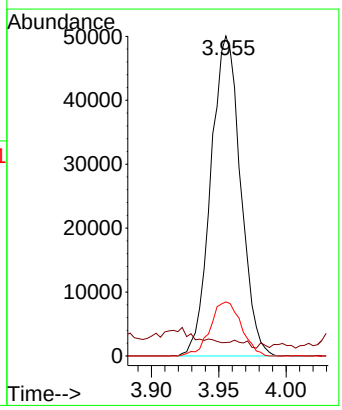


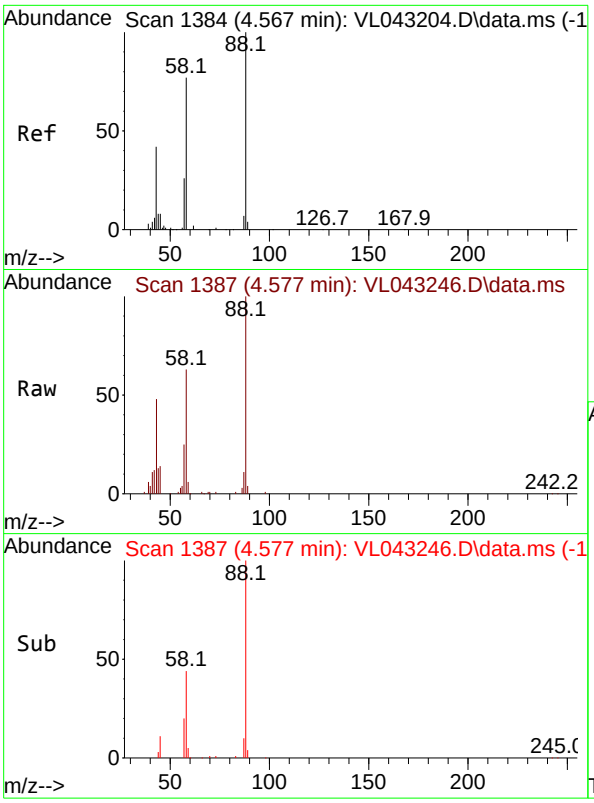


#39
1,2-Dichloropropane
Concen: 7.159 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.347 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 63 Resp: 76667

Ion	Ratio	Lower	Upper
63	100		
41	0.7	62.6	93.8#
62	16.9	51.0	76.6#



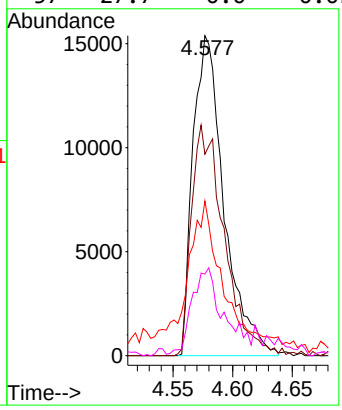


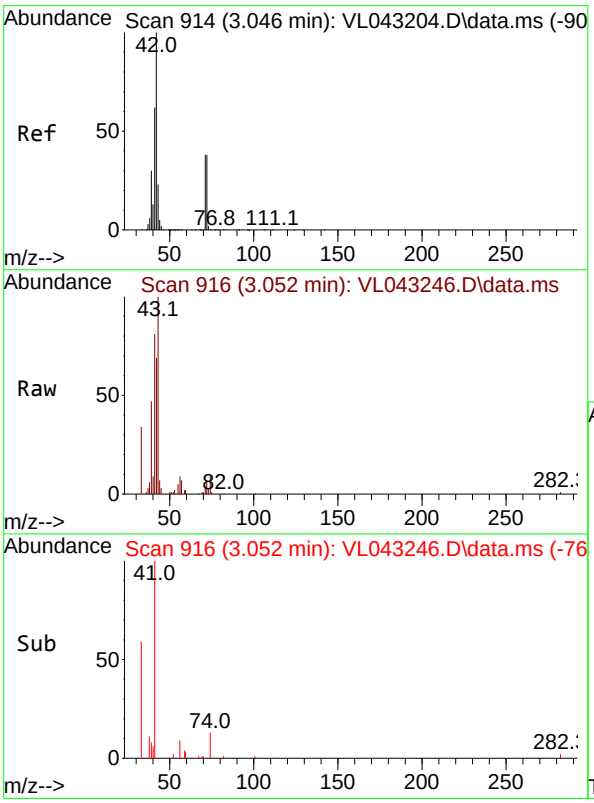
#40
1,4-Dioxane
Concen: 5.793 ppbv
RT: 4.577 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 88 Resp: 27891

Ion	Ratio	Lower	Upper
88	100		
58	76.0	63.0	94.6
43	55.3	32.5	48.7#
57	27.7	0.0	0.0#

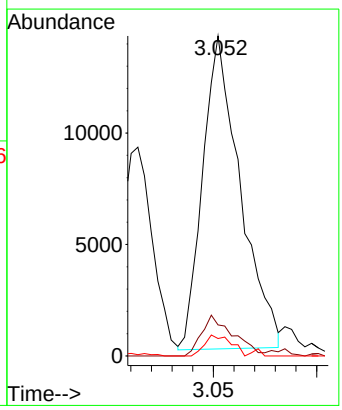


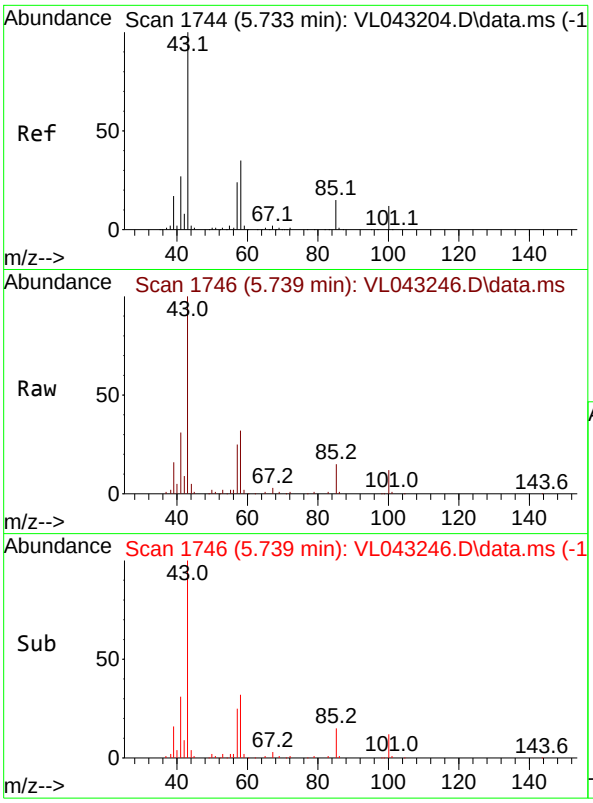


#41
Tetrahydrofuran
Concen: 1.489 ppbv
RT: 3.052 min Scan# 916
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 42 Resp: 17731

Ion	Ratio	Lower	Upper
42	100		
72	12.2	30.6	46.0#
71	5.2	30.5	45.7#



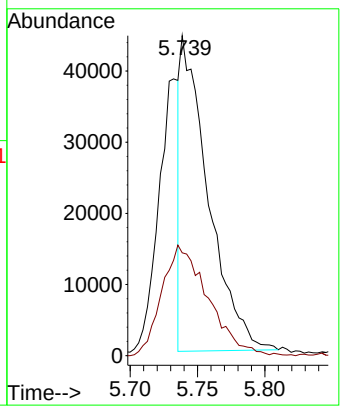


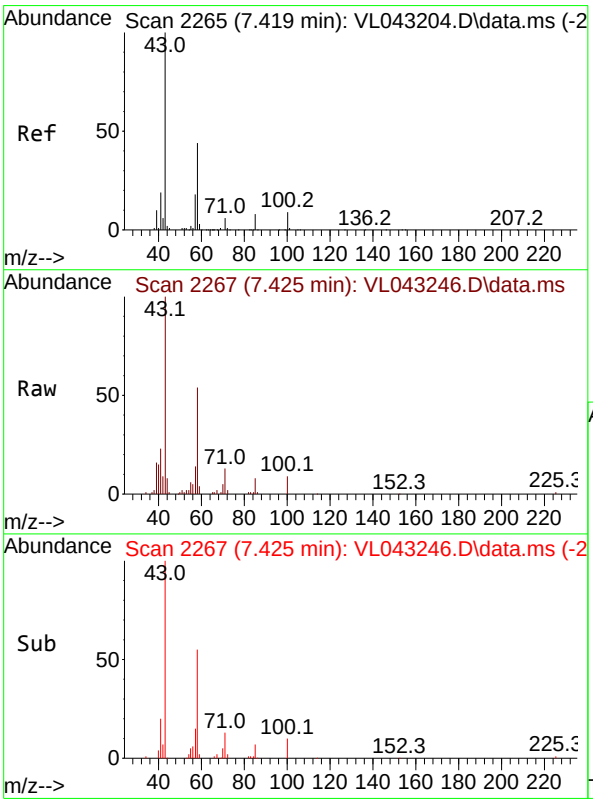
#50
4-Methyl-2-Pentanone
Concen: 2.071 ppbv
RT: 5.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 43 Resp: 62912

Ion	Ratio	Lower	Upper
43	100		
58	58.9	28.4	42.6#

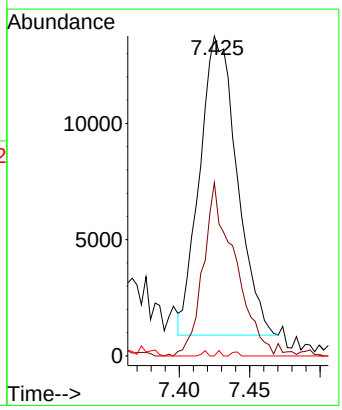


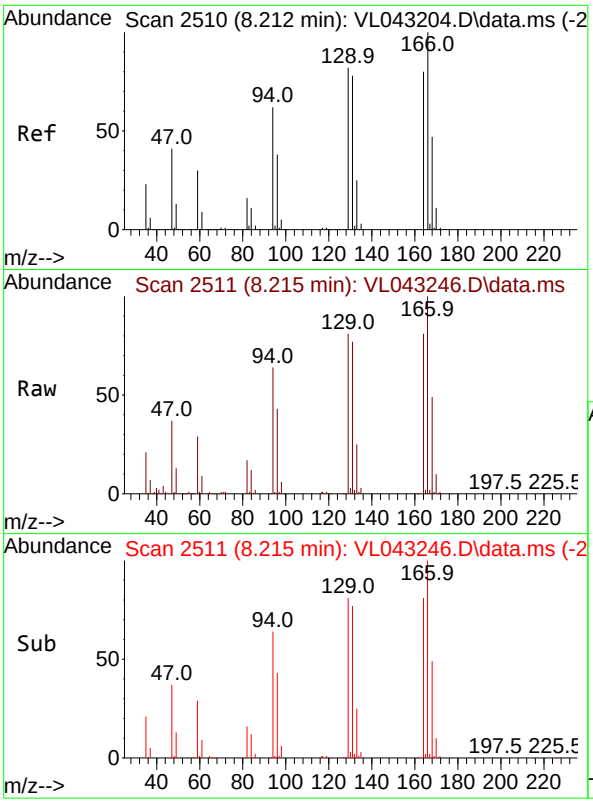


#51
2-Hexanone
Concen: 1.005 ppbv
RT: 7.425 min Scan# 2267
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 43 Resp: 23719

Ion	Ratio	Lower	Upper
43	100		
58	50.8	38.4	57.6
98	0.4	0.0	0.0#



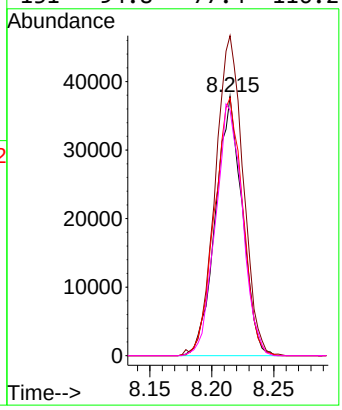


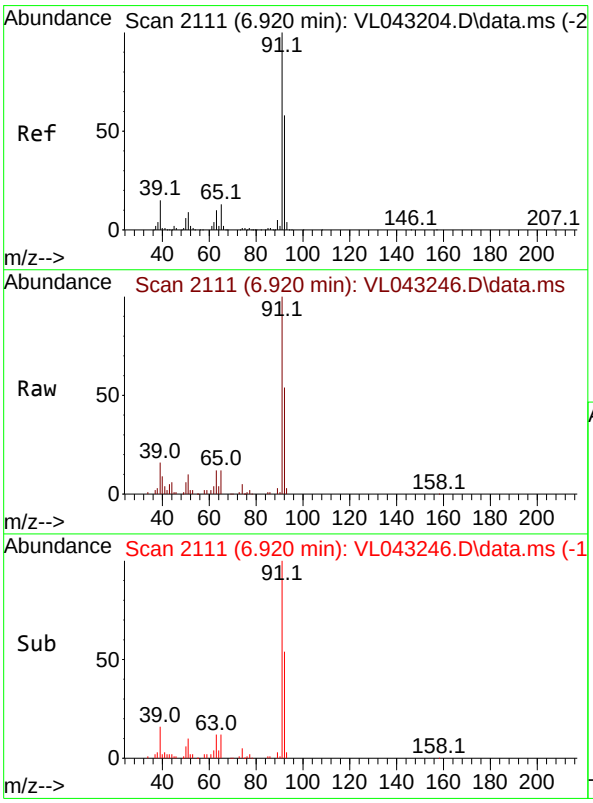
#52
Tetrachloroethene
Concen: 5.215 ppbv
RT: 8.215 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion:164 Resp: 56759

Ion	Ratio	Lower	Upper
164	100		
166	123.5	99.4	149.2
129	99.6	81.8	122.8
131	94.8	77.4	116.2

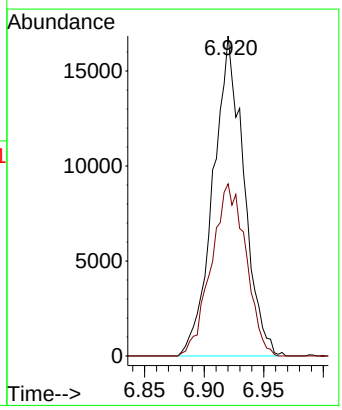


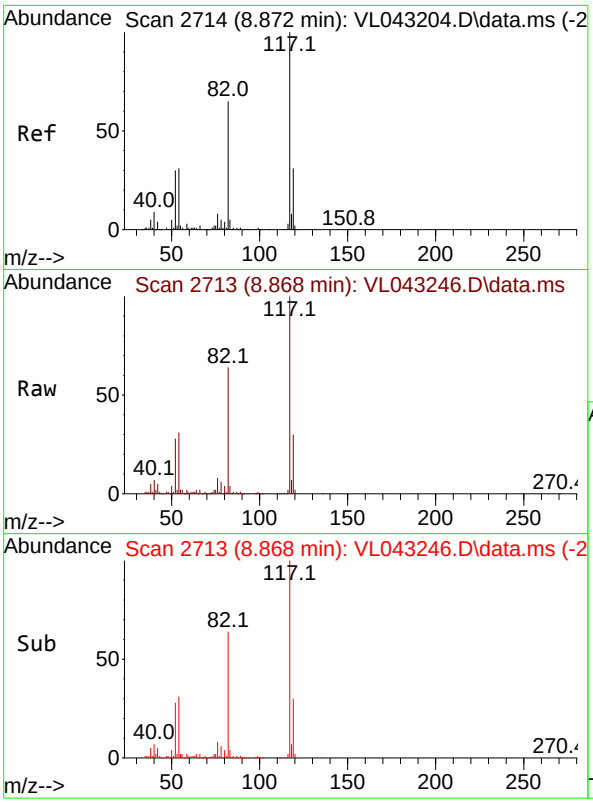


#53
Toluene
Concen: 0.870 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 91 Resp: 30132

Ion	Ratio	Lower	Upper
91	100		
92	60.7	47.4	71.0



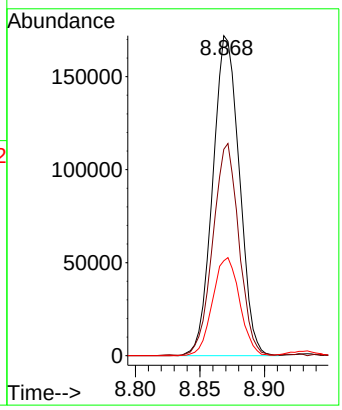


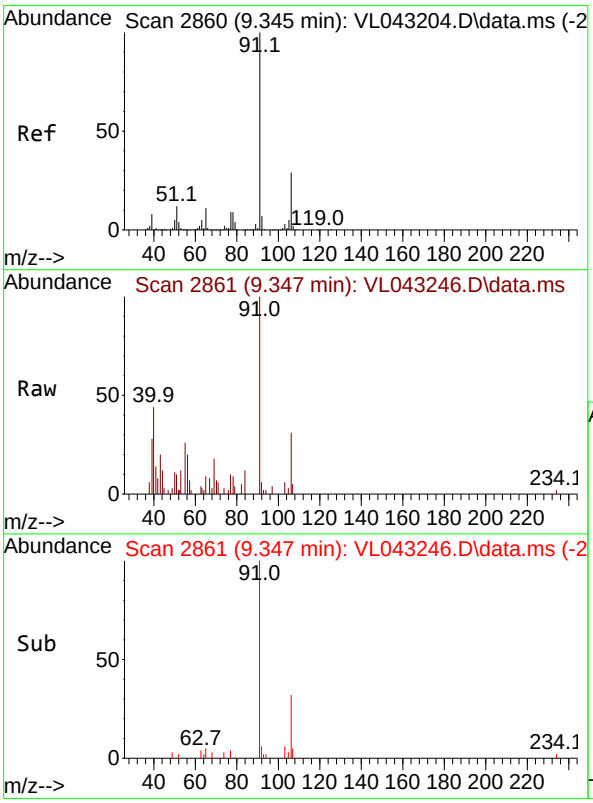
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.868 min Scan# 2
Delta R.T. -0.004 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion:117 Resp: 246745

Ion	Ratio	Lower	Upper
117	100		
82	65.0	56.1	84.1
119	31.3	25.0	37.6

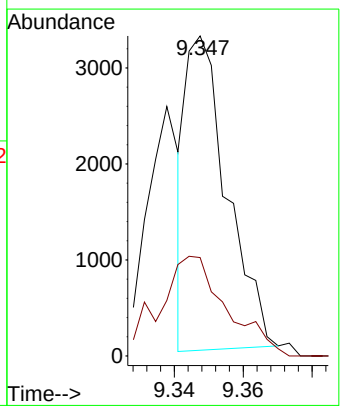


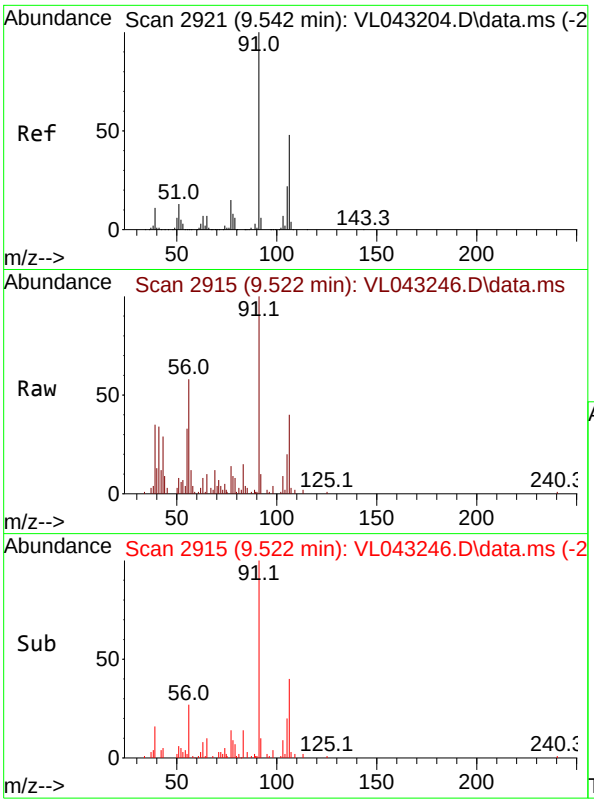


#58
Ethyl Benzene
Concen: 0.057 ppbv
RT: 9.347 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 91 Resp: 2729

Ion	Ratio	Lower	Upper
91	100		
106	29.5	22.8	34.2



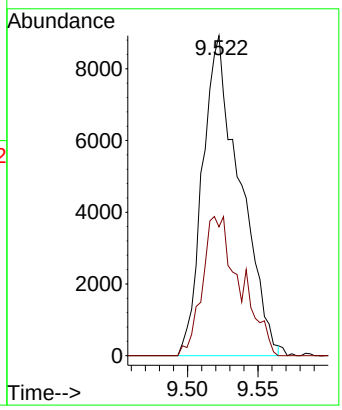


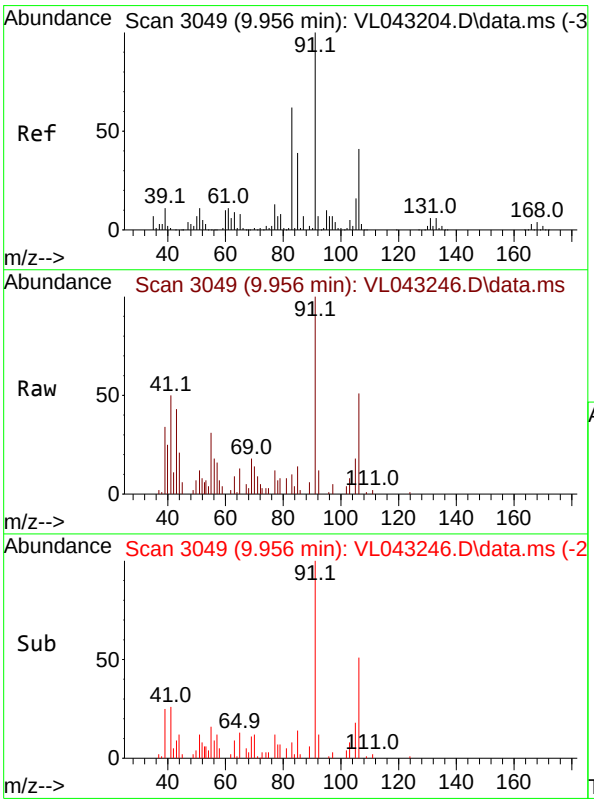
#59
m/p-Xylene
Concen: 0.432 ppbv
RT: 9.522 min Scan# 2
Delta R.T. -0.020 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 91 Resp: 16446

Ion	Ratio	Lower	Upper
91	100		
106	44.2	36.1	54.1

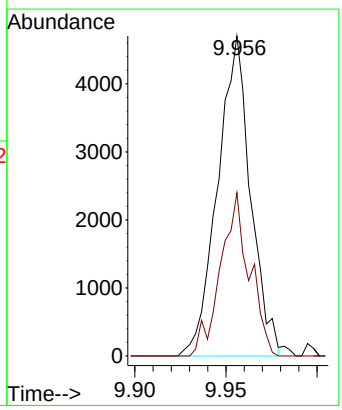


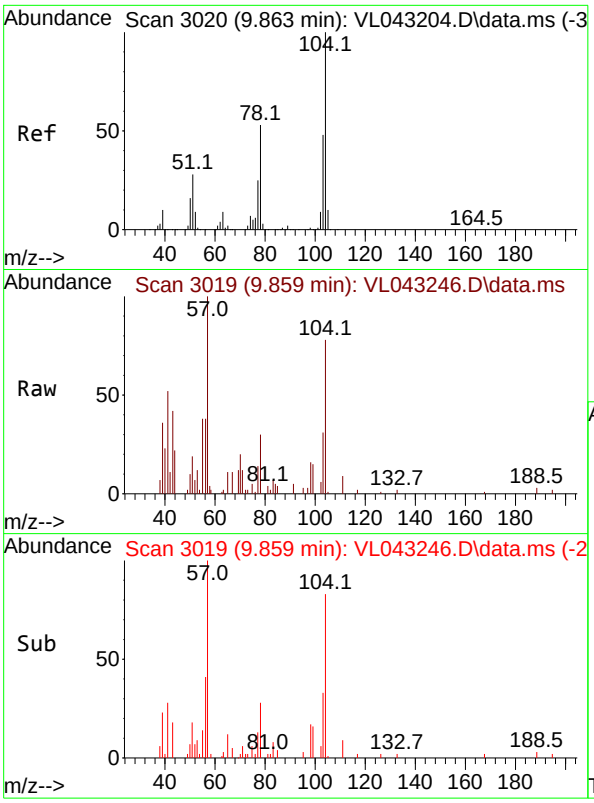


#60
o-Xylene
Concen: 0.156 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 91 Resp: 5915

Ion	Ratio	Lower	Upper
91	100		
106	44.9	20.9	62.8



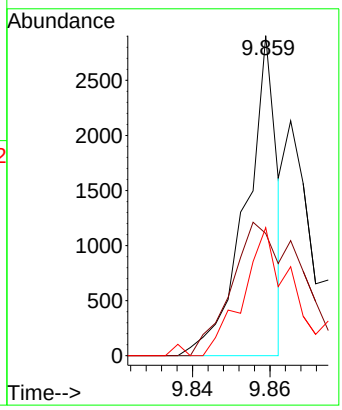


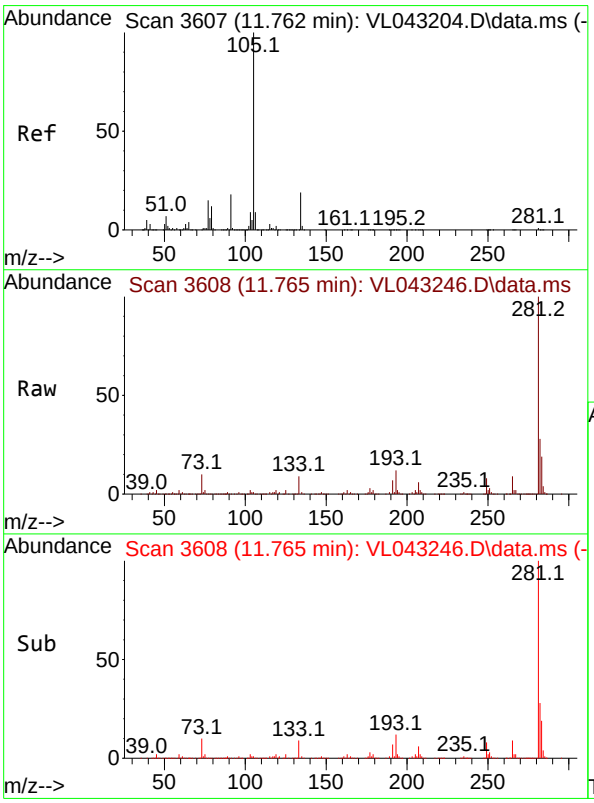
#61
Styrene
Concen: 0.097 ppbv
RT: 9.859 min Scan# 3
Delta R.T. -0.004 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion:104 Resp: 1623

Ion	Ratio	Lower	Upper
104	100		
78	95.4	42.1	63.1#
103	66.8	37.2	55.8#

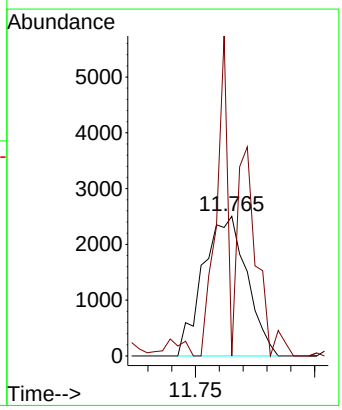


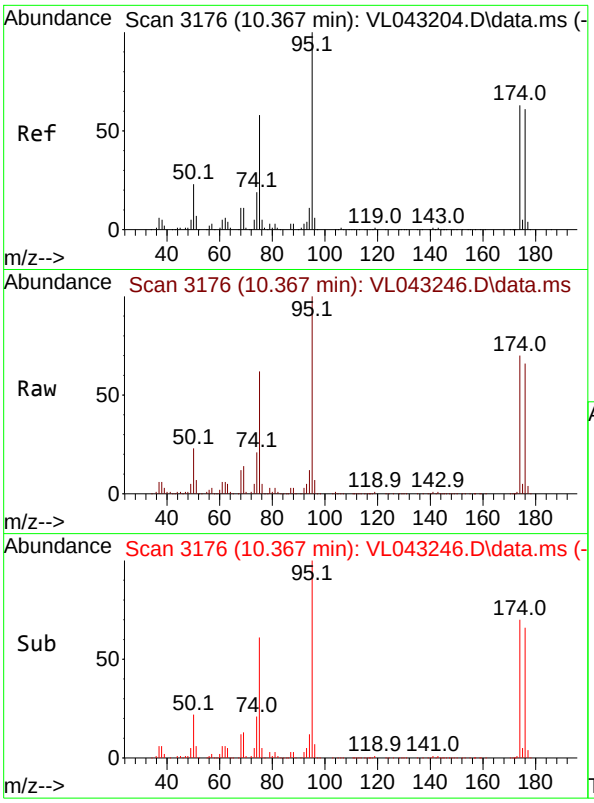


#67
sec-Butylbenzene
Concen: 0.038 ppbv
RT: 11.765 min Scan# 3608
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion:105 Resp: 3203

Ion	Ratio	Lower	Upper
105	100		
134	129.1	15.0	22.6#



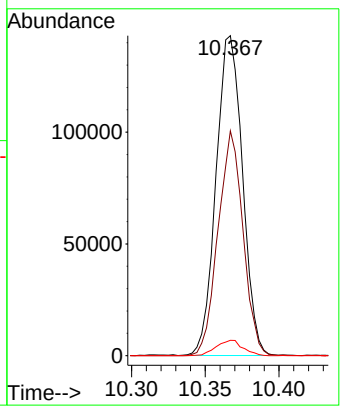


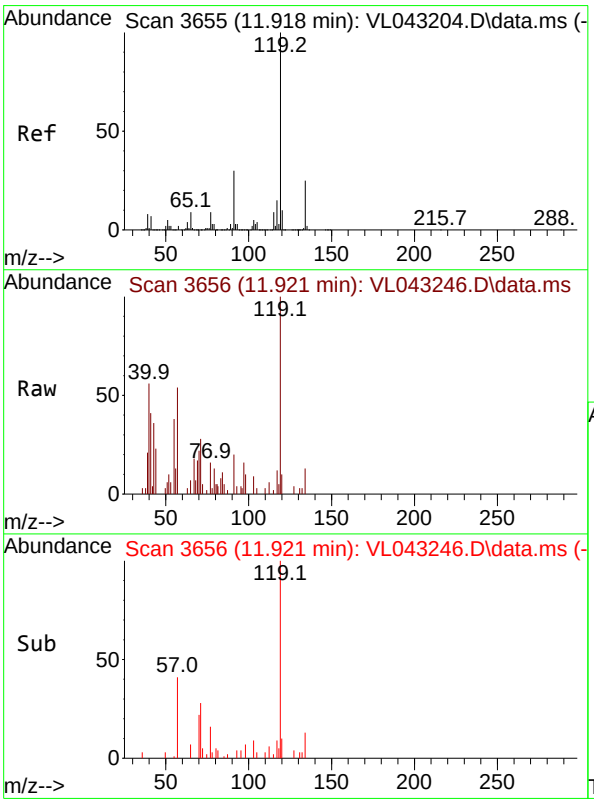
#68
1-Bromo-4-Fluorobenzene
Concen: 9.890 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 95 Resp: 178880

Ion	Ratio	Lower	Upper
95	100		
174	66.2	50.2	75.2
175	4.8	4.1	6.1

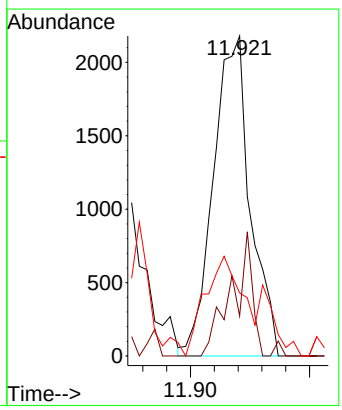


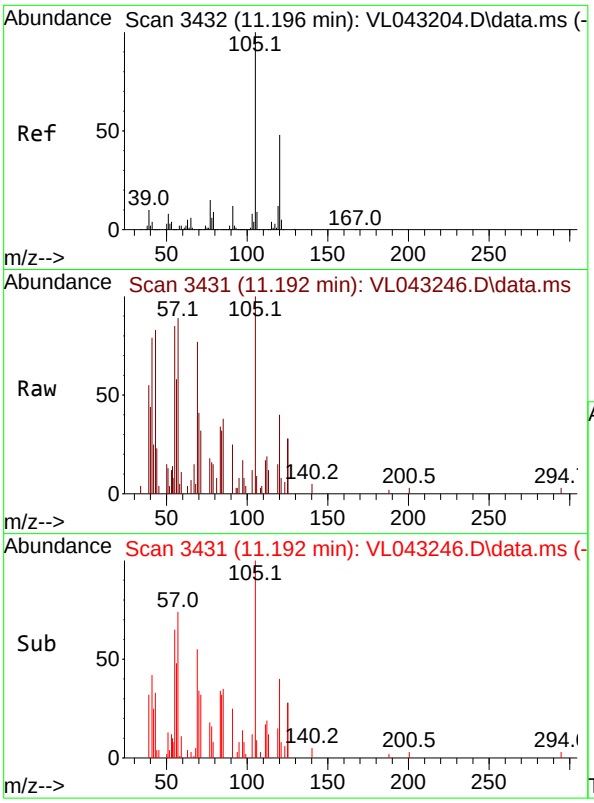


#69
p-Isopropyltoluene
Concen: 0.033 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion:119 Resp: 2340

Ion	Ratio	Lower	Upper
119	100		
134	22.6	20.2	30.2
91	42.9	23.8	35.8#



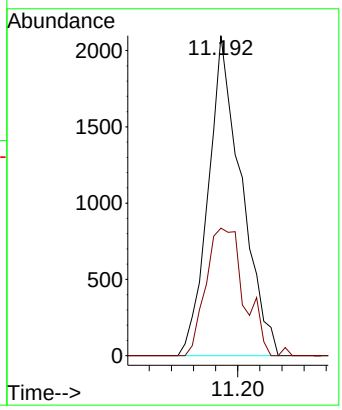


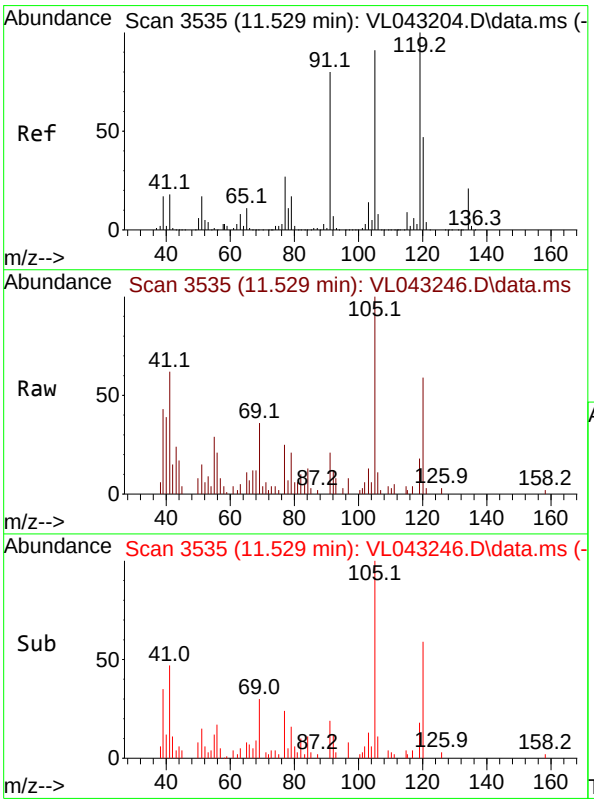
#73
1,3,5-Trimethylbenzene
Concen: 0.056 ppbv
RT: 11.192 min Scan# 3
Delta R.T. -0.004 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion:105 Resp: 2175

Ion	Ratio	Lower	Upper
105	100		
120	39.8	38.6	57.8

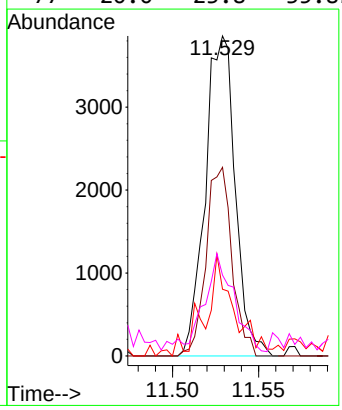


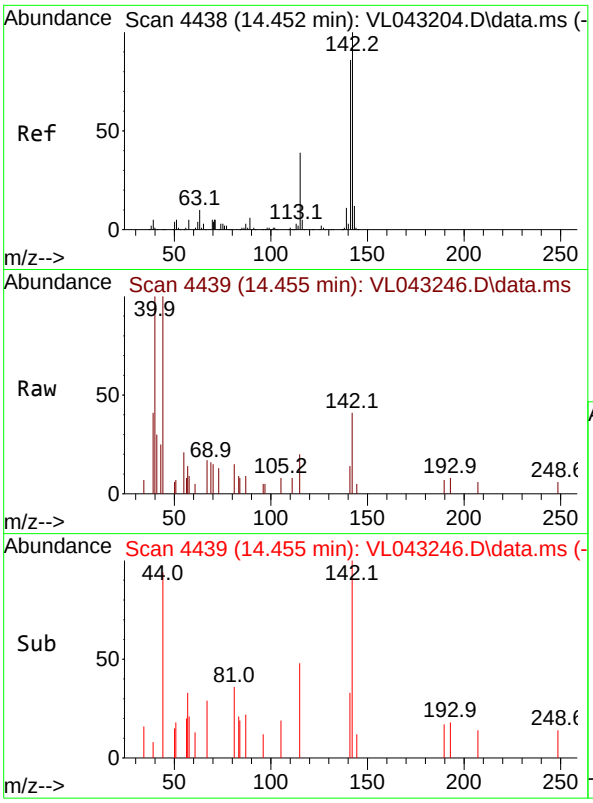


#74
1,2,4-Trimethylbenzene
Concen: 0.110 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion:105 Resp: 4674

Ion	Ratio	Lower	Upper
105	100		
120	58.9	41.7	62.5
91	17.5	70.0	105.0#
77	20.0	23.8	35.8#



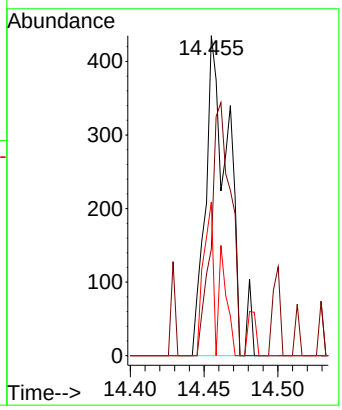


#80
Naphthalene,2-methyl-
Concen: 0.047 ppbv
RT: 14.455 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion:142 Resp: 468

Ion	Ratio	Lower	Upper
142	100		
141	68.2	67.1	100.7
115	37.0	31.9	47.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043247.D
Acq On : 19 Nov 2025 19:52
Operator : SY/MD
Sample : Q3626-12DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Quant Time: Nov 20 00:09:54 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

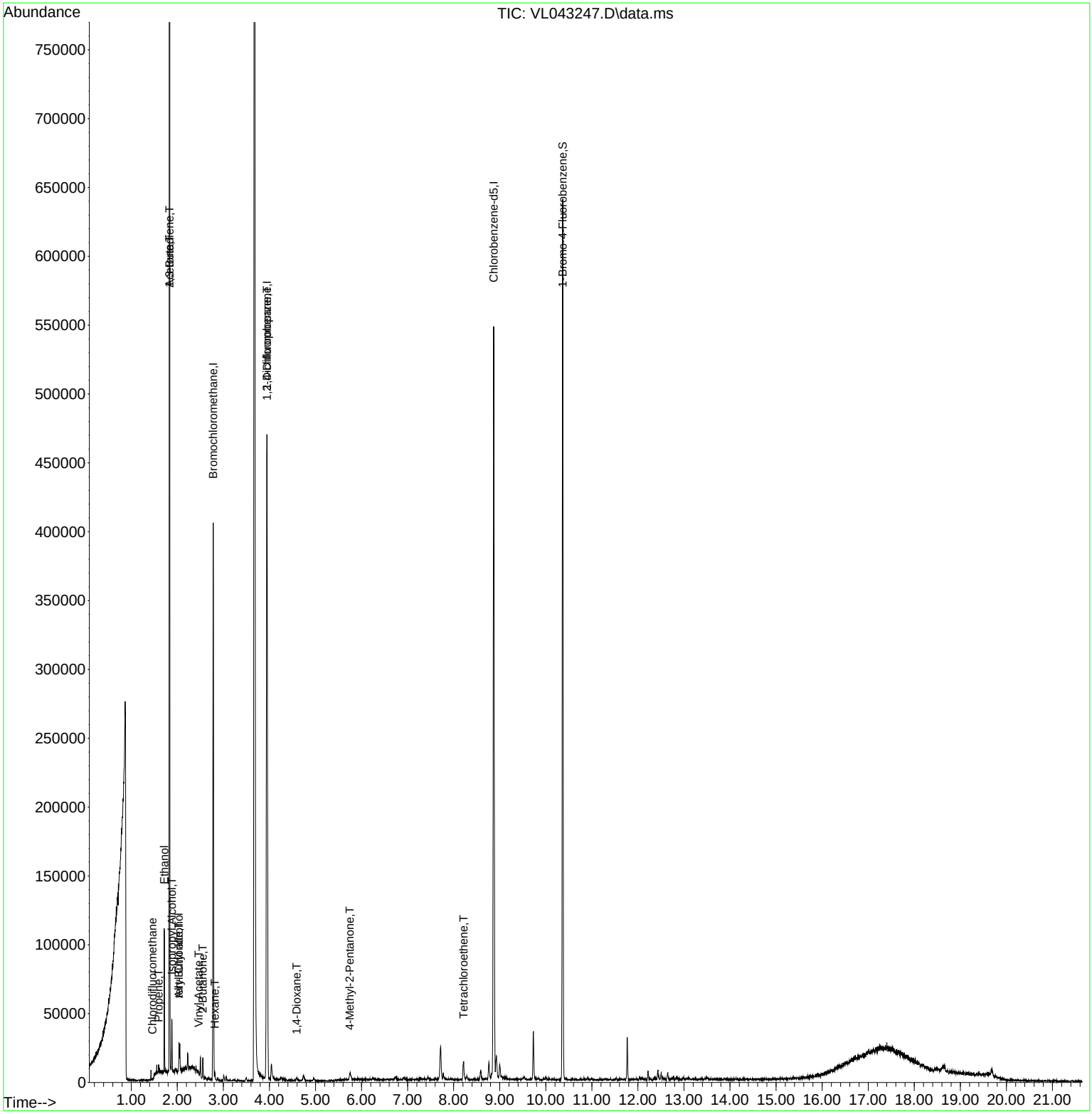
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.780	49	102231	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	281627	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	224034	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	159151	9.691	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.900%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.460	51	509	0.036	ppbv #	88
9) Propene	1.593	41	1279	0.212	ppbv #	86
13) Ethanol	1.716	45	36573	17.273	ppbv	99
15) Acetone	1.829	43	1127186	79.361	ppbv	96
16) 1,3-Butadiene	1.829	39	53369	8.428	ppbv #	14
17) tert-Butyl alcohol	2.036	59	8013	0.430	ppbv #	87
19) Isopropyl Alcohol	1.881	45	14613	1.821	ppbv #	36
20) Methylene Chloride	2.055	84	2823	Below Cal		95
21) Allyl Chloride	2.036	41	2315	0.242	ppbv #	46
23) Vinyl Acetate	2.463	43	604	0.035	ppbv #	56
26) Hexane	2.813	57	1324	0.099	ppbv #	53
34) 2-Butanone	2.554	43	9311	0.468	ppbv	96
39) 1,2-Dichloropropane	3.949	63	70842	7.177	ppbv #	24
40) 1,4-Dioxane	4.590	88	563	0.127	ppbv #	32
50) 4-Methyl-2-Pentanone	5.745	43	1589	0.057	ppbv #	39
52) Tetrachloroethene	8.215	164	2304	0.230	ppbv #	79

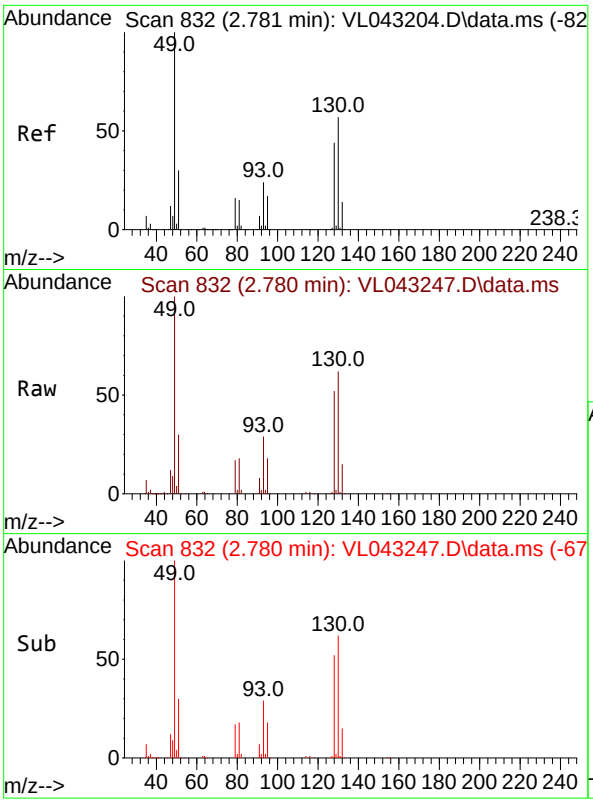
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043247.D
Acq On : 19 Nov 2025 19:52
Operator : SY/MD
Sample : Q3626-12DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Quant Time: Nov 20 00:09:54 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



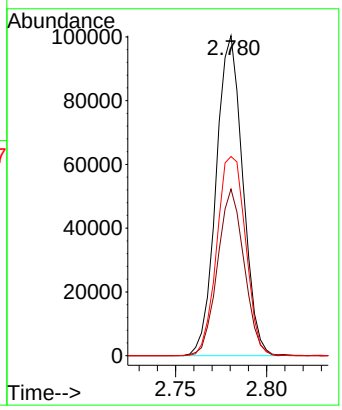


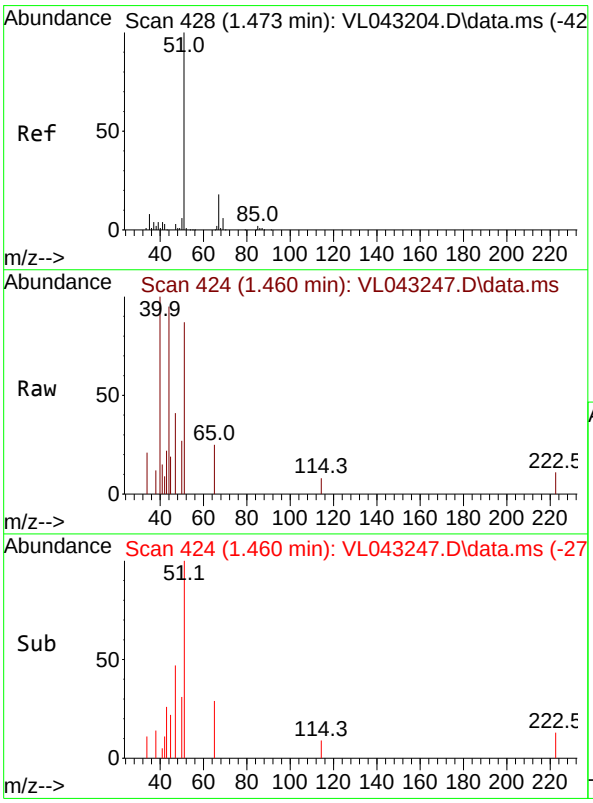
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.001 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Tgt Ion: 49 Resp: 102231

Ion	Ratio	Lower	Upper
49	100		
128	51.8	23.0	69.0
130	67.0	29.9	89.7

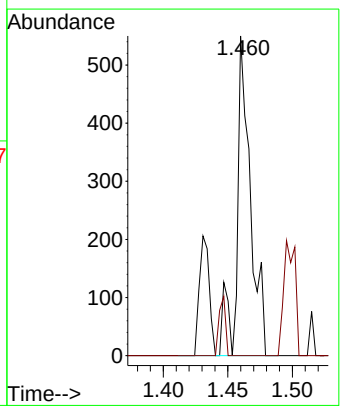


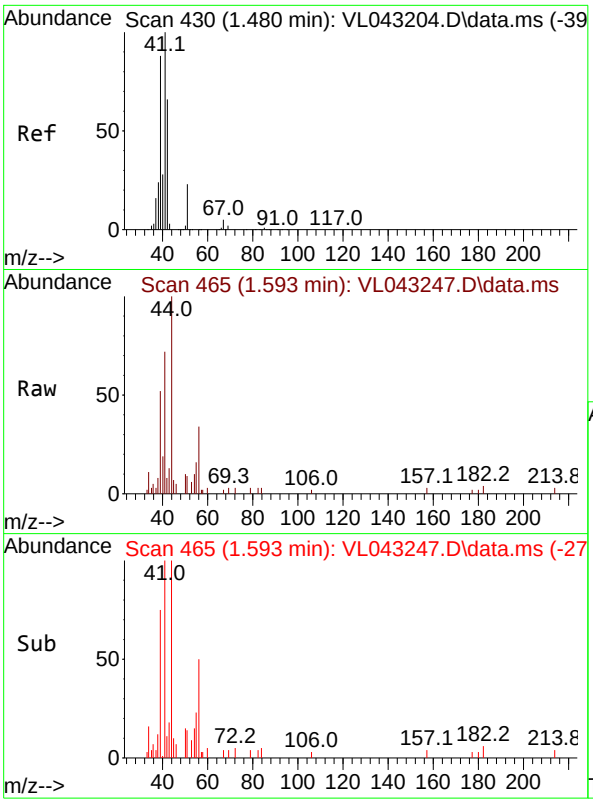


#3
Chlorodifluoromethane
Concen: 0.036 ppbv
RT: 1.460 min Scan# 424
Delta R.T. -0.013 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 51 Resp: 509

Ion	Ratio	Lower	Upper
51	100		
67	24.0	14.9	22.3#



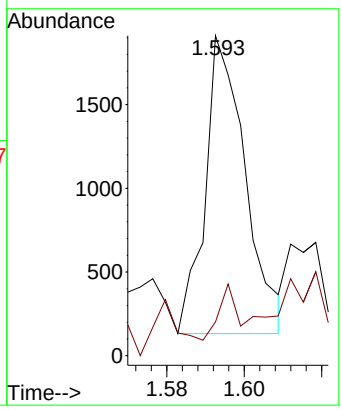


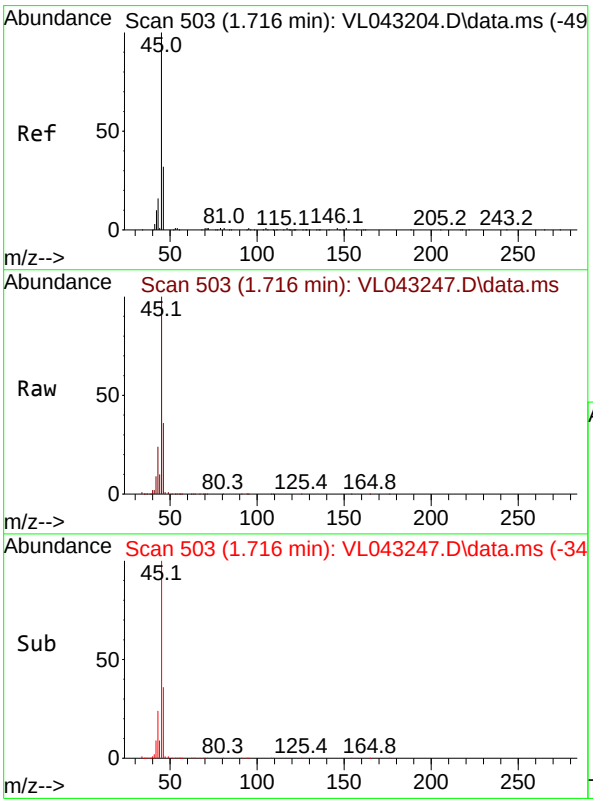
#9
Propene
Concen: 0.212 ppbv
RT: 1.593 min Scan# 4
Delta R.T. 0.113 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Tgt Ion: 41 Resp: 1279

Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5#

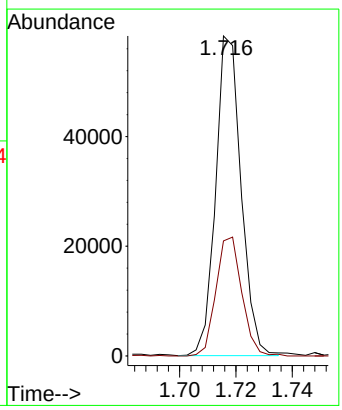


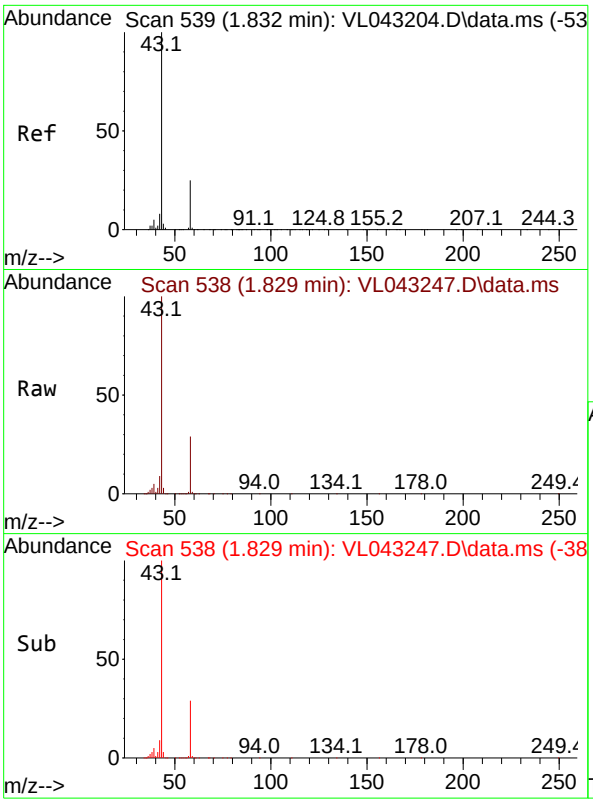


#13
Ethanol
Concen: 17.273 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 45 Resp: 36573

Ion	Ratio	Lower	Upper
45	100		
46	37.9	15.0	59.8



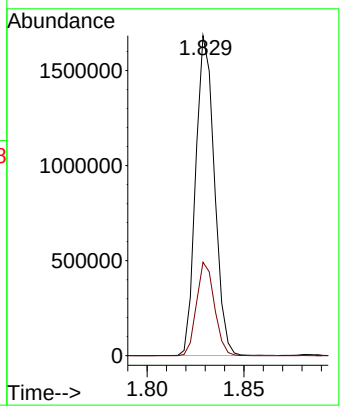


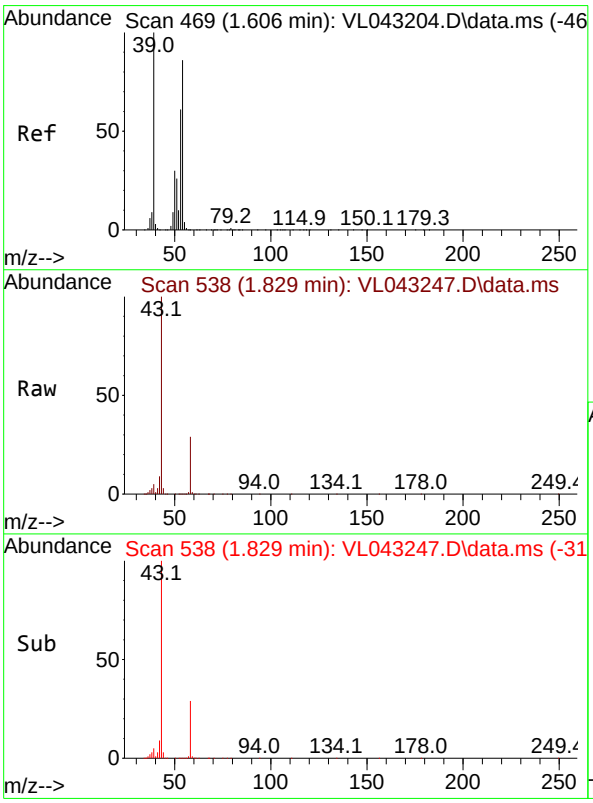
#15
Acetone
Concen: 79.361 ppbv
RT: 1.829 min Scan# 5
Delta R.T. -0.004 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Tgt Ion: 43 Resp: 1127186

Ion	Ratio	Lower	Upper
43	100		
58	28.1	20.7	31.1

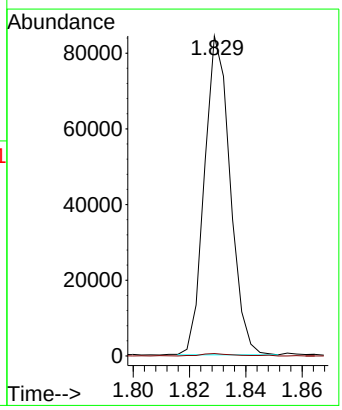


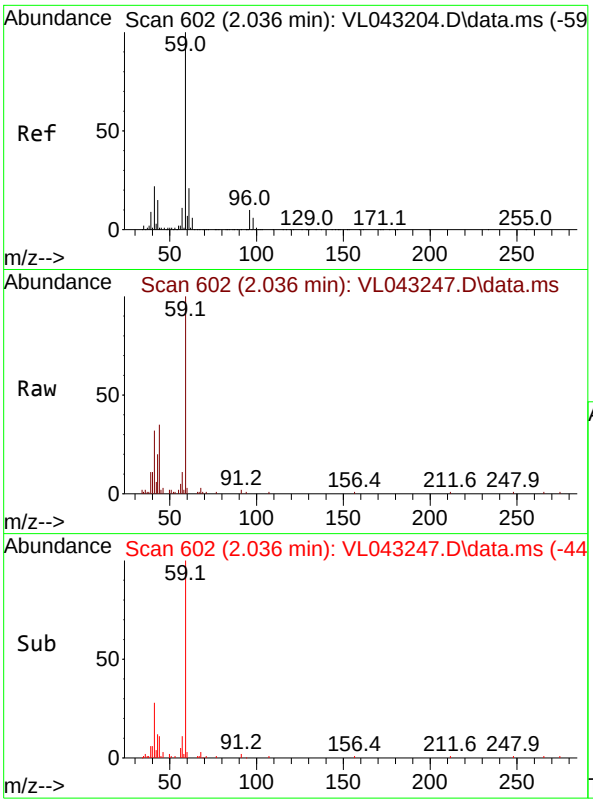


#16
1,3-Butadiene
Concen: 8.428 ppbv
RT: 1.829 min Scan# 538
Delta R.T. 0.223 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 39 Resp: 53369

Ion	Ratio	Lower	Upper
39	100		
54	1.1	59.4	89.2#



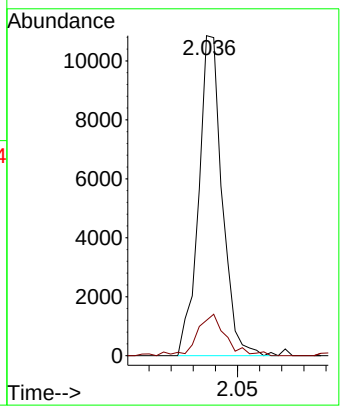


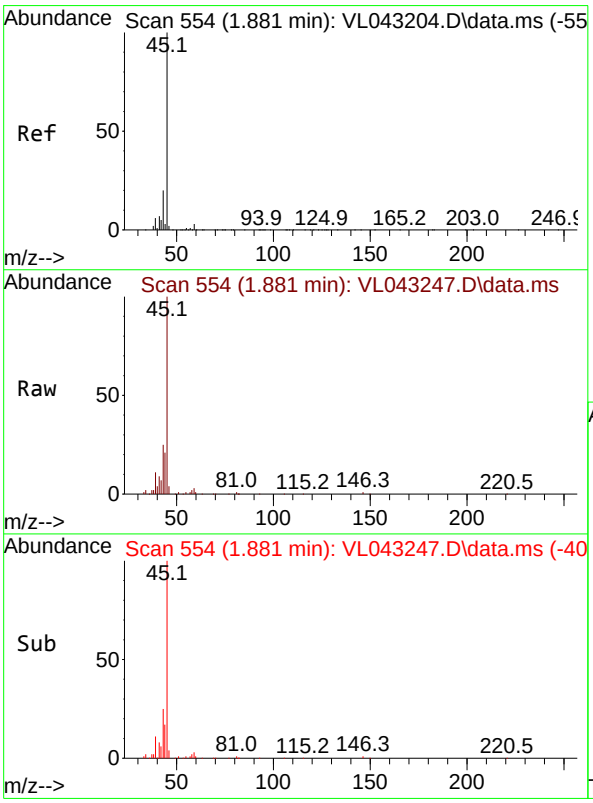
#17
tert-Butyl alcohol
Concen: 0.430 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Tgt Ion: 59 Resp: 8013

Ion	Ratio	Lower	Upper
59	100		
57	16.0	9.0	13.4#

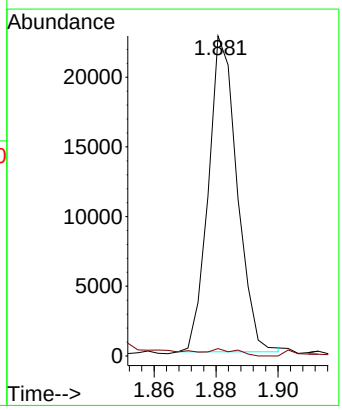


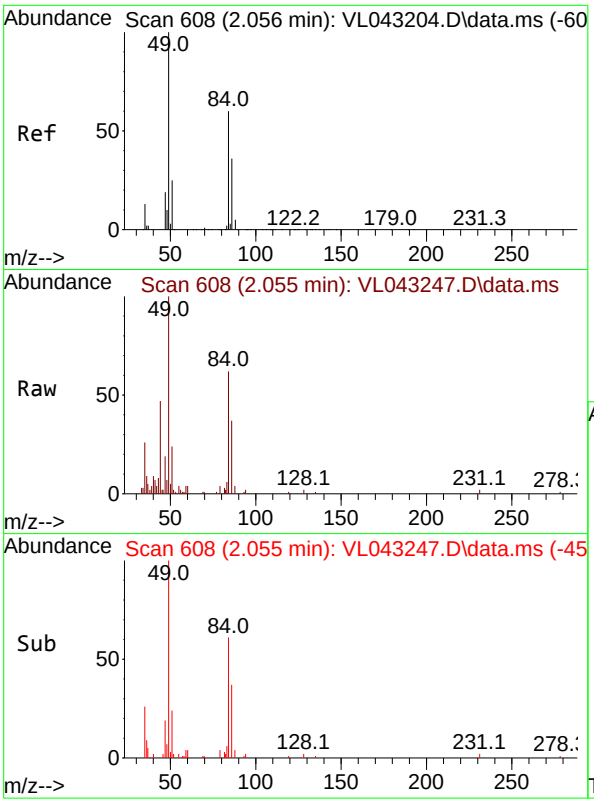


#19
Isopropyl Alcohol
Concen: 1.821 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 45 Resp: 14613

Ion	Ratio	Lower	Upper
45	100		
58	0.0	31.3	46.9#



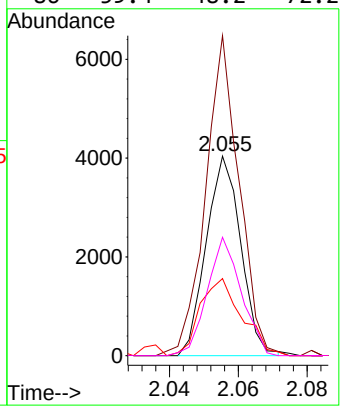


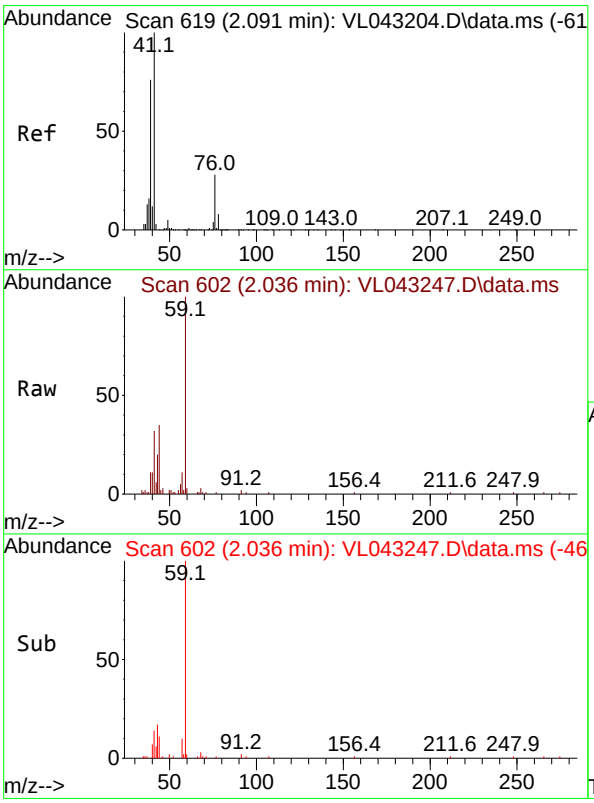
#20
Methylene Chloride
Concen: Below Cal
RT: 2.055 min Scan# 6
Delta R.T. -0.001 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Tgt Ion: 84 Resp: 2823

Ion	Ratio	Lower	Upper
84	100		
49	158.3	132.9	199.3
51	37.2	34.8	52.2
86	59.4	48.2	72.2

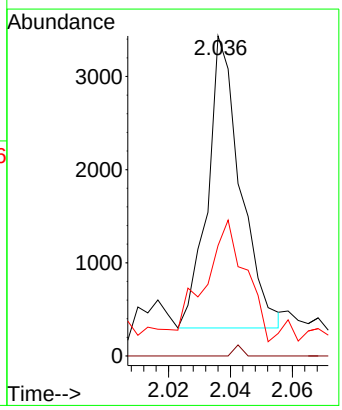


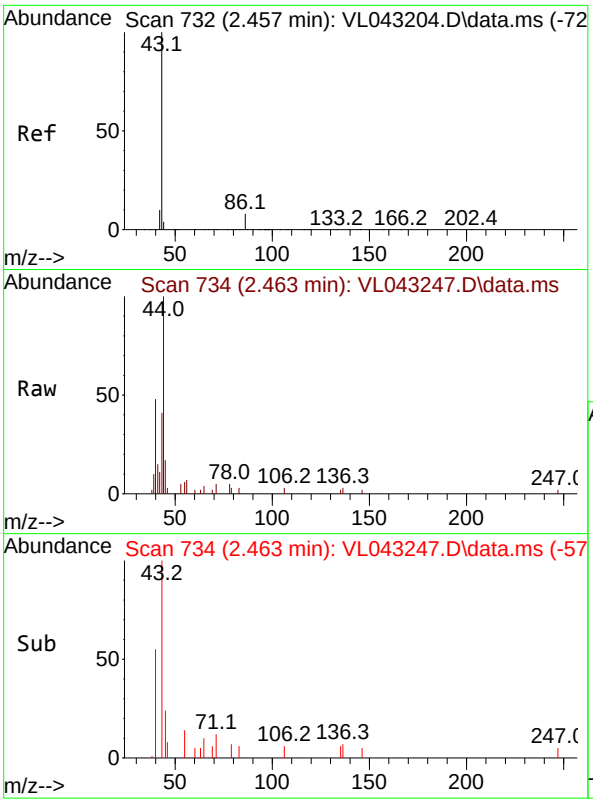


#21
Allyl Chloride
Concen: 0.242 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.055 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 41 Resp: 2315

Ion	Ratio	Lower	Upper
41	100		
76	1.1	22.1	33.1#
39	124.2	61.0	91.4#



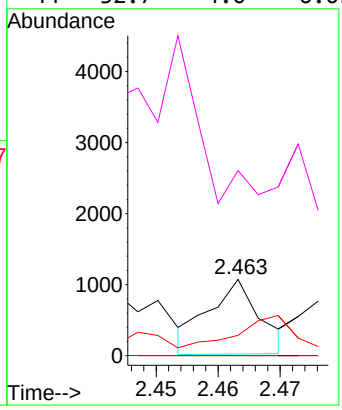


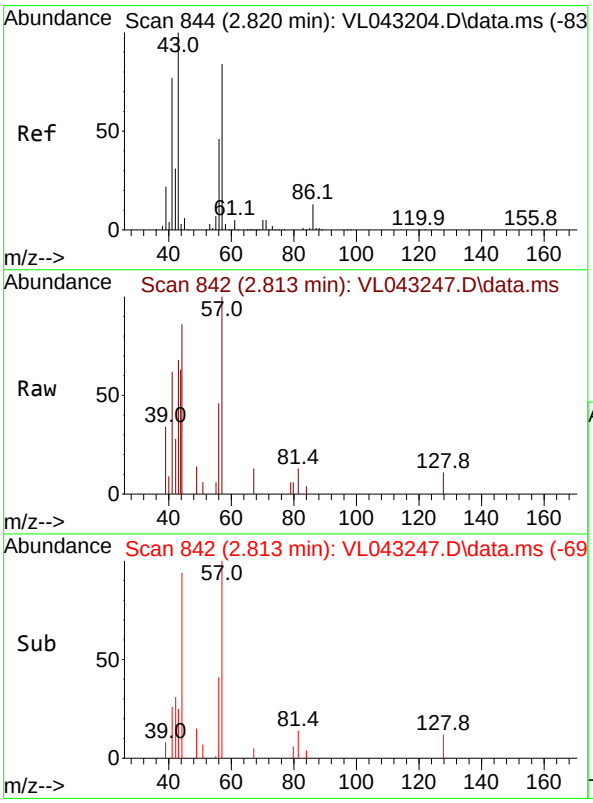
#23
Vinyl Acetate
Concen: 0.035 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Tgt Ion: 43 Resp: 604

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.2#
42	25.1	8.0	12.0#
44	32.7	4.0	6.0#

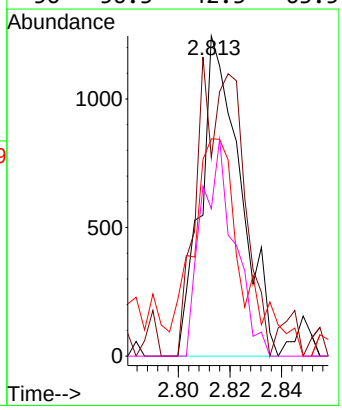


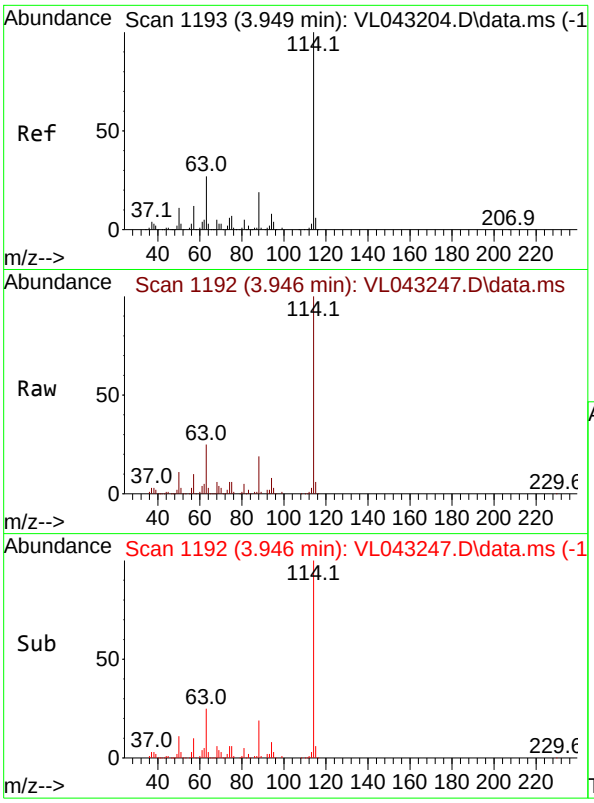


#26
Hexane
Concen: 0.099 ppbv
RT: 2.813 min Scan# 842
Delta R.T. -0.007 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 57 Resp: 1324

Ion	Ratio	Lower	Upper
57	100		
41	116.3	74.6	111.8#
43	115.0	179.0	268.4#
56	56.3	42.3	63.5



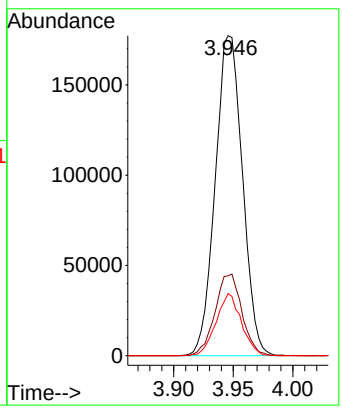


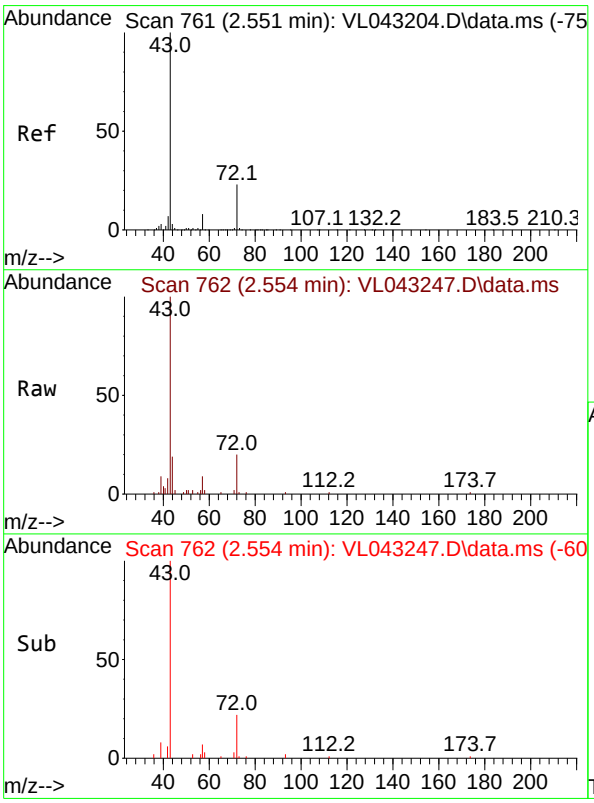
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1
Delta R.T. -0.004 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Tgt Ion:114 Resp: 281627

Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.0	31.6
88	18.0	14.9	22.3

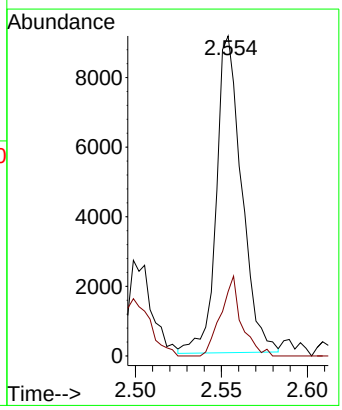


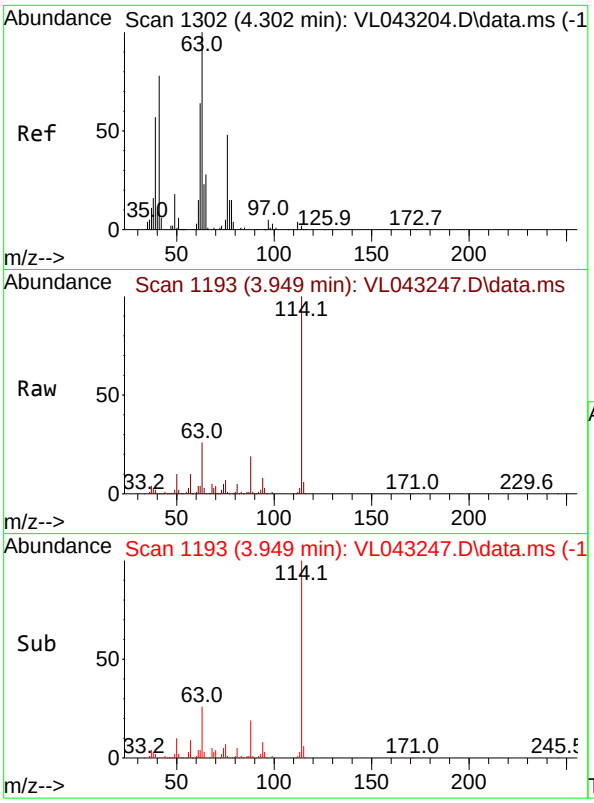


#34
2-Butanone
Concen: 0.468 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 43 Resp: 9311

Ion	Ratio	Lower	Upper
43	100		
72	20.5	18.1	27.1



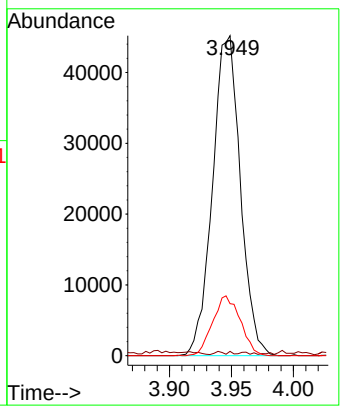


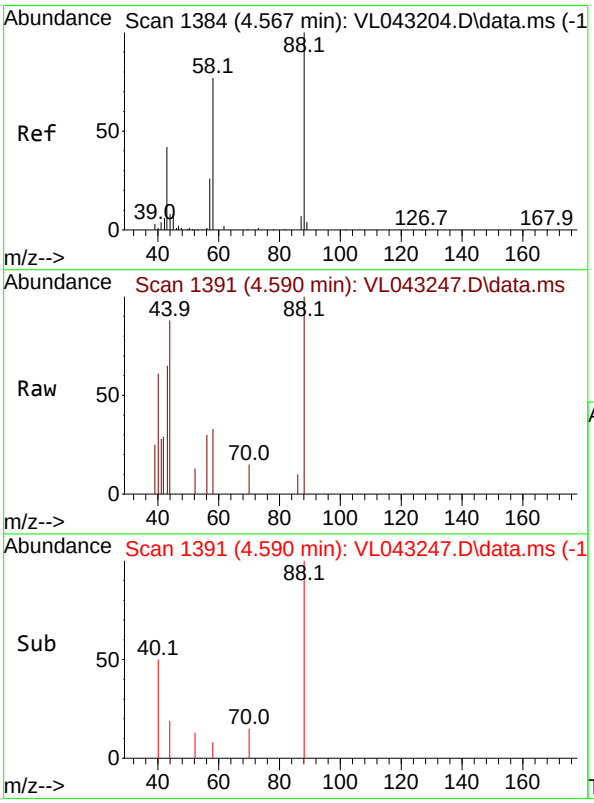
#39
1,2-Dichloropropane
Concen: 7.177 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.353 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Tgt Ion: 63 Resp: 70842

Ion	Ratio	Lower	Upper
63	100		
41	0.5	62.6	93.8#
62	16.3	51.0	76.6#

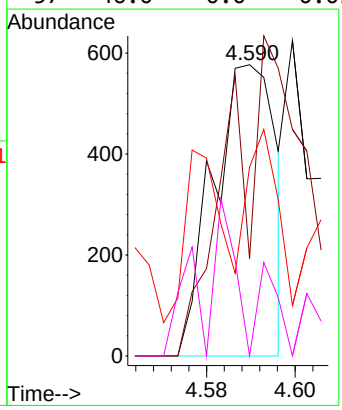


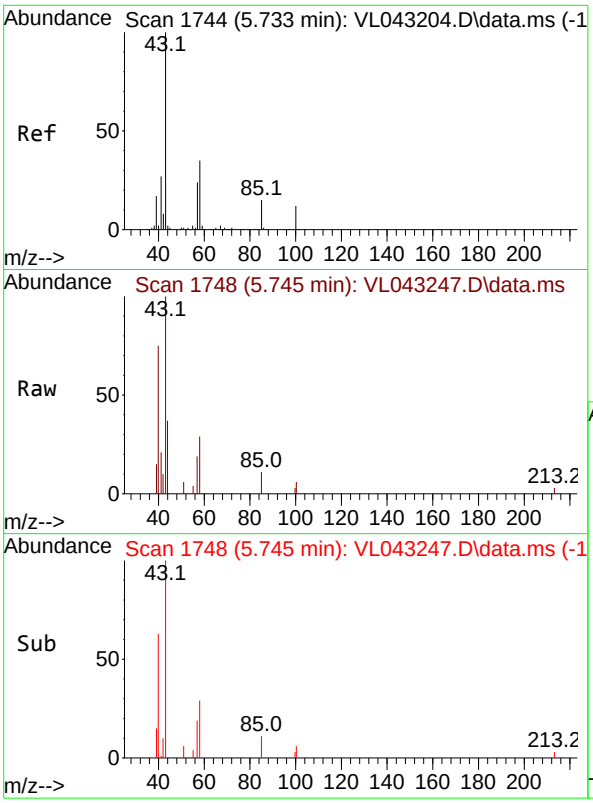


#40
1,4-Dioxane
Concen: 0.127 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.022 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 88 Resp: 563

Ion	Ratio	Lower	Upper
88	100		
58	149.7	63.0	94.6#
43	67.7	32.5	48.7#
57	46.0	0.0	0.0#



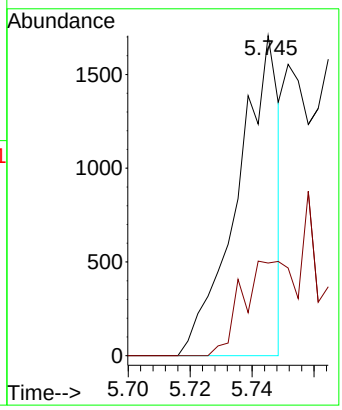


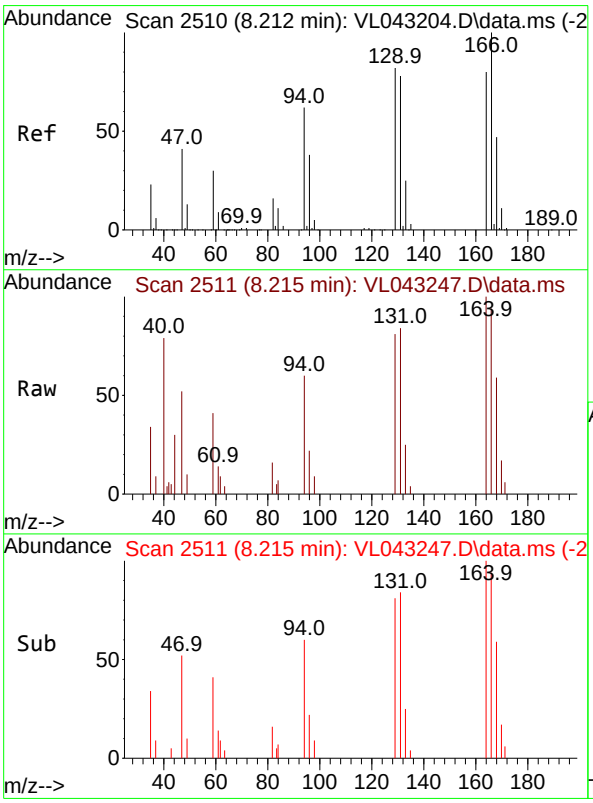
#50
4-Methyl-2-Pentanone
Concen: 0.057 ppbv
RT: 5.745 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Tgt Ion: 43 Resp: 1589

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#

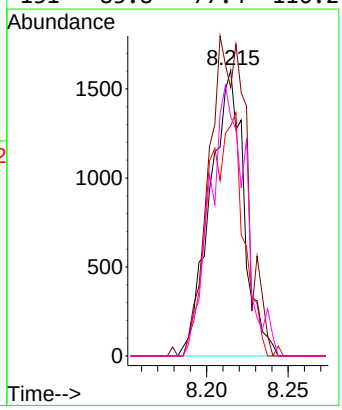


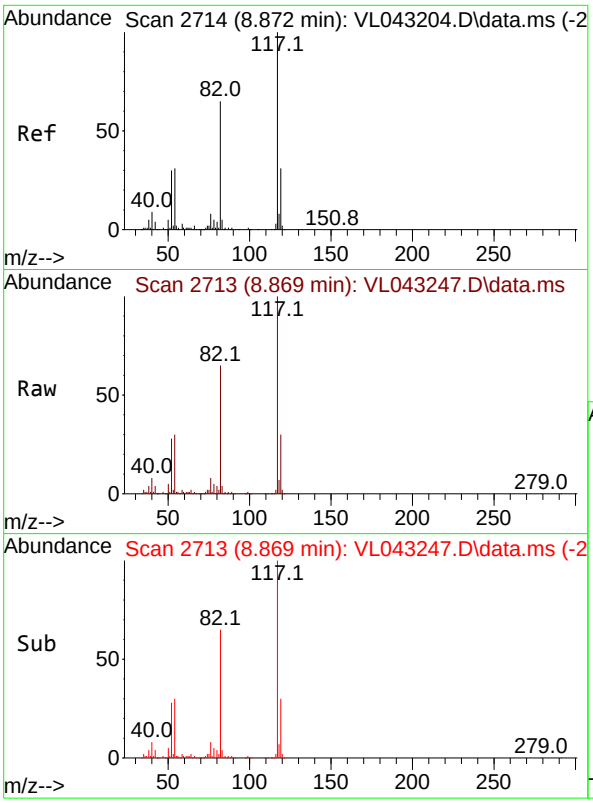


#52
Tetrachloroethene
Concen: 0.230 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion:164 Resp: 2304

Ion	Ratio	Lower	Upper
164	100		
166	94.0	99.4	149.2#
129	80.5	81.8	122.8#
131	83.8	77.4	116.2



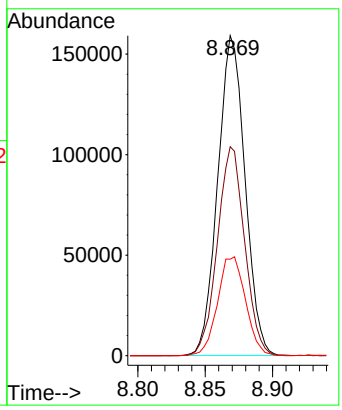


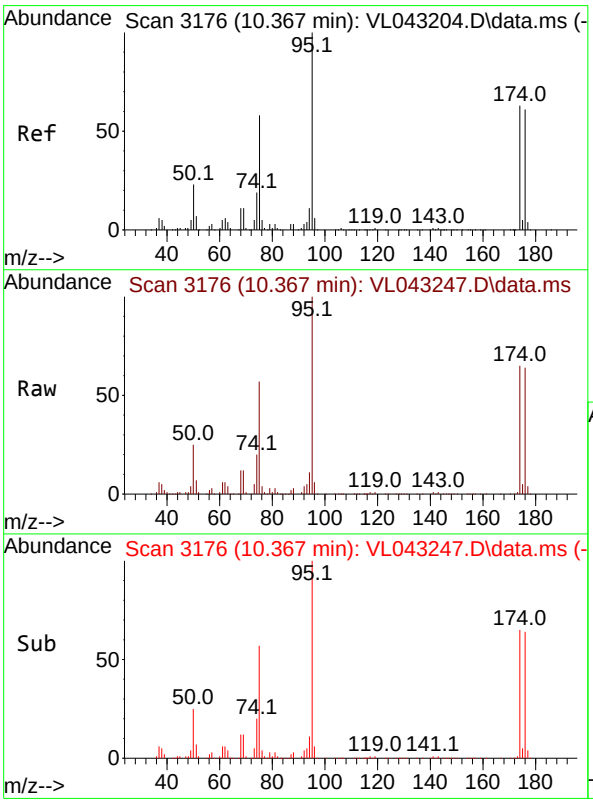
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. -0.004 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Tgt Ion:117 Resp: 224034

Ion	Ratio	Lower	Upper
117	100		
82	65.2	56.1	84.1
119	31.8	25.0	37.6

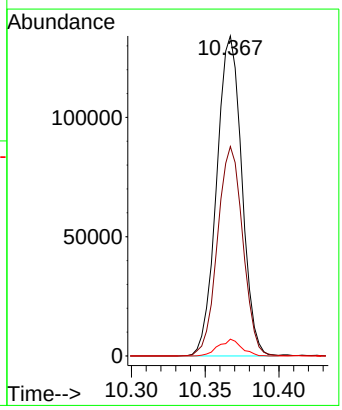




#68
1-Bromo-4-Fluorobenzene
Concen: 9.691 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 95 Resp: 159151

Ion	Ratio	Lower	Upper
95	100		
174	66.1	50.2	75.2
175	4.8	4.1	6.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043248.D
Acq On : 19 Nov 2025 20:25
Operator : SY/MD
Sample : Q3626-01DL 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Quant Time: Nov 20 00:10:16 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

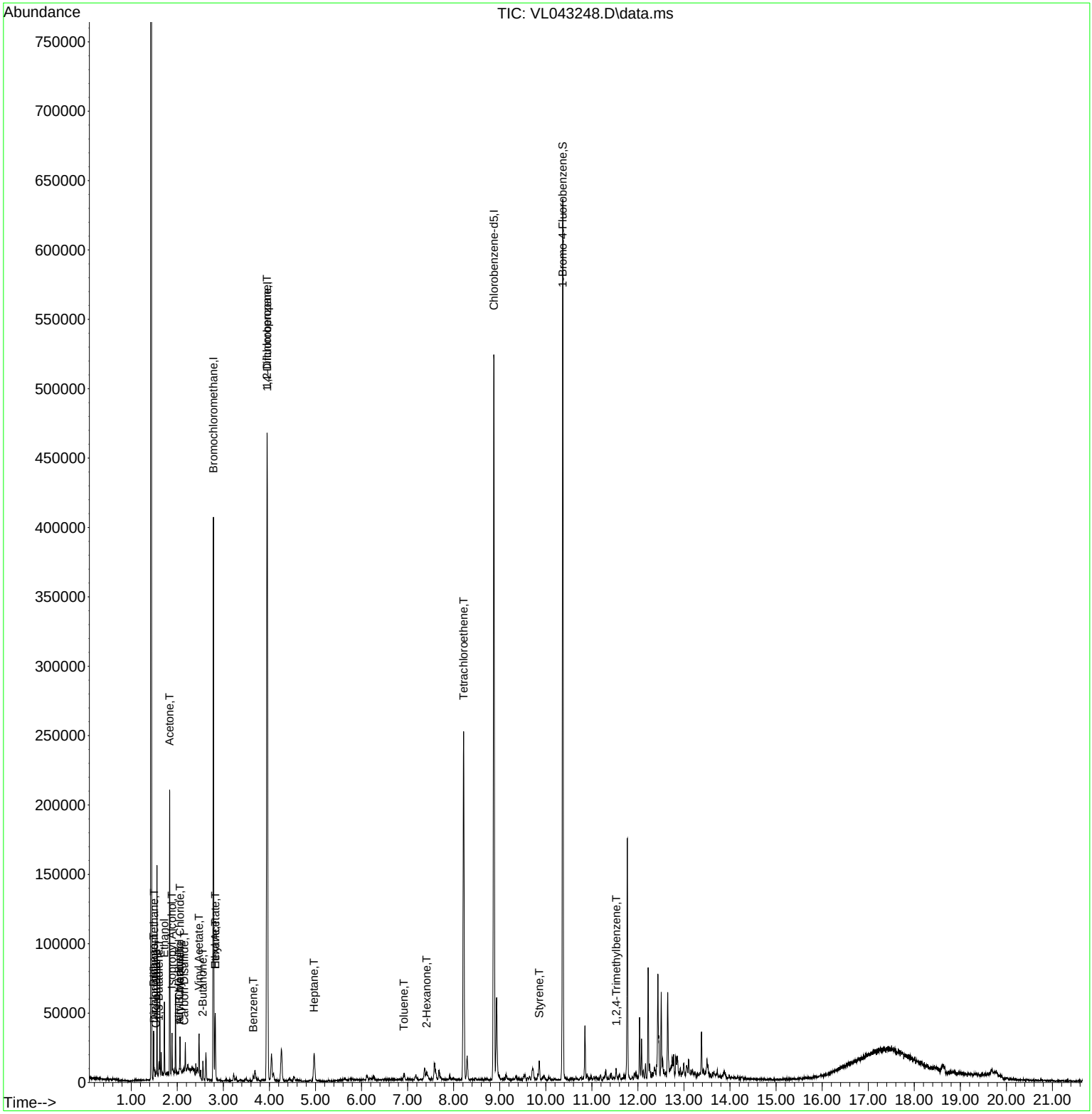
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	101838	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	273802	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	211877	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	156816	10.097	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	1470	0.102	ppbv		99
4) Chloromethane	1.531	50	801	0.149	ppbv	#	64
9) Propene	1.486	41	4449	0.742	ppbv	#	1
10) Heptane	4.965	43	3183	0.178	ppbv	#	28
13) Ethanol	1.719	45	18211	8.634	ppbv		98
15) Acetone	1.832	43	93799	6.630	ppbv		98
16) 1,3-Butadiene	1.599	39	881	0.140	ppbv	#	77
17) tert-Butyl alcohol	2.043	59	1301	0.070	ppbv	#	34
19) Isopropyl Alcohol	1.884	45	10986	1.374	ppbv	#	1
20) Methylene Chloride	2.059	84	3988	0.186	ppbv	#	79
21) Allyl Chloride	2.046	41	455	0.048	ppbv	#	73
23) Vinyl Acetate	2.470	43	8896	0.521	ppbv	#	64
25) Ethyl Acetate	2.823	43	8074	0.265	ppbv	#	78
26) Hexane	2.823	57	11251	0.841	ppbv	#	41
27) Carbon Disulfide	2.149	76	1091	0.080	ppbv	#	1
34) 2-Butanone	2.554	43	8284	0.429	ppbv		99
36) Benzene	3.651	78	2149	0.082	ppbv		94
39) 1,2-Dichloropropane	3.949	63	69184	7.209	ppbv	#	25
51) 2-Hexanone	7.415	43	947	0.045	ppbv	#	29
52) Tetrachloroethene	8.218	164	43592	4.469	ppbv		97
53) Toluene	6.917	91	3140	0.101	ppbv		94
61) Styrene	9.859	104	2665	0.186	ppbv	#	88
74) 1,2,4-Trimethylbenzene	11.532	105	1254	0.034	ppbv	#	60

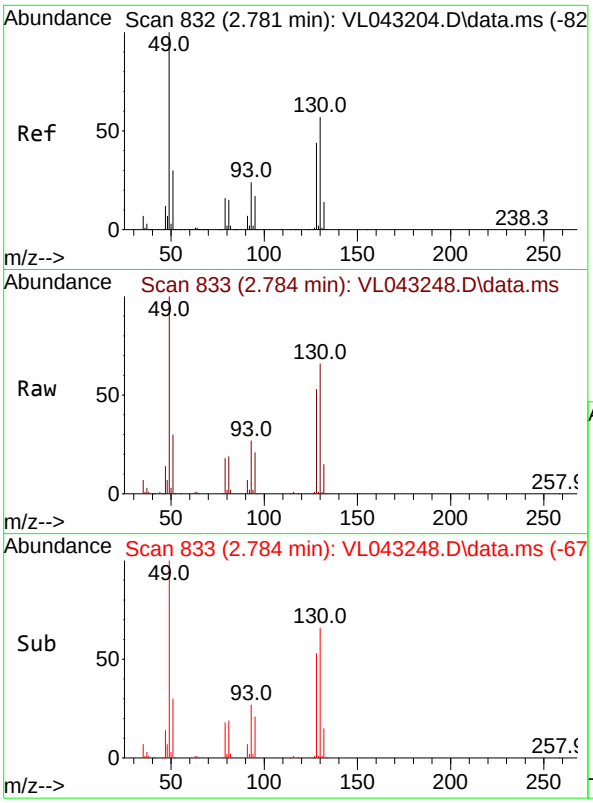
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043248.D
Acq On : 19 Nov 2025 20:25
Operator : SY/MD
Sample : Q3626-01DL 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Quant Time: Nov 20 00:10:16 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



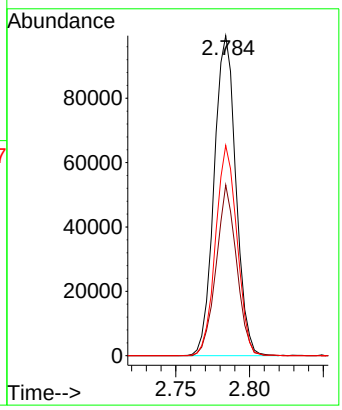


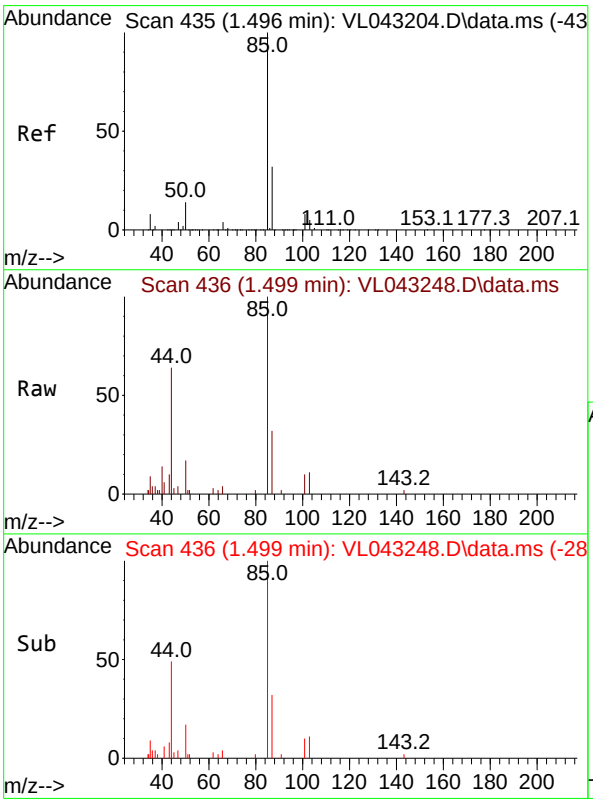
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion: 49 Resp: 101838

Ion	Ratio	Lower	Upper
49	100		
128	50.2	23.0	69.0
130	64.6	29.9	89.7

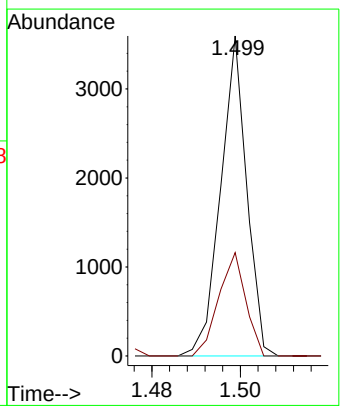


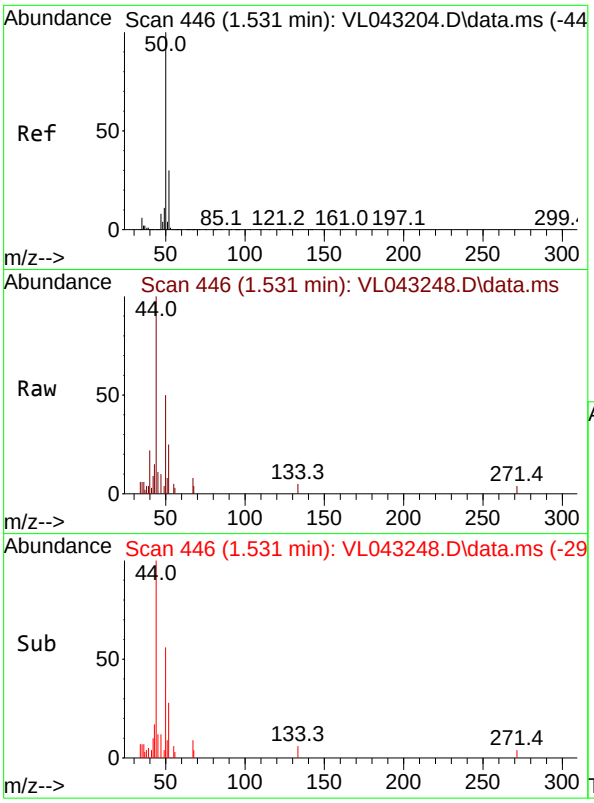


#2
Dichlorodifluoromethane
Concen: 0.102 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 85 Resp: 1470

Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.4	38.2



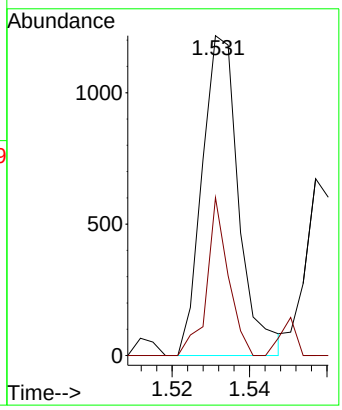


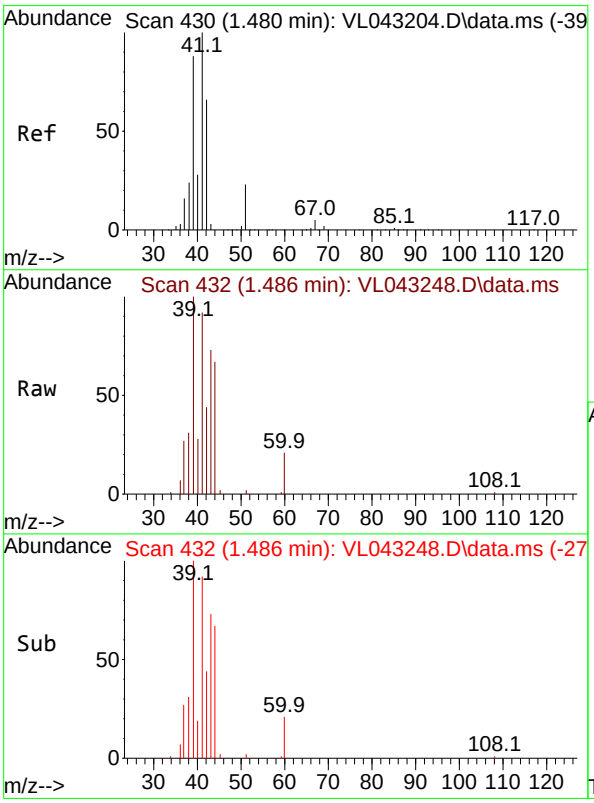
#4
Chloromethane
Concen: 0.149 ppbv
RT: 1.531 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion: 50 Resp: 801

Ion	Ratio	Lower	Upper
50	100		
52	49.4	24.1	36.1#

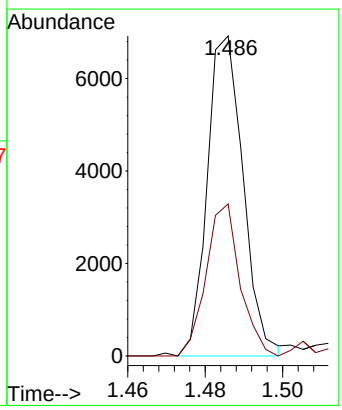


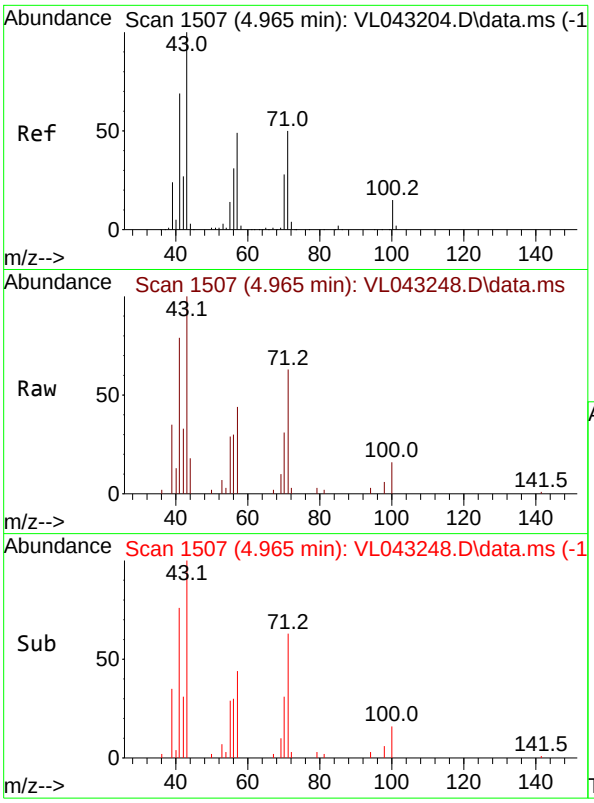


#9
Propene
Concen: 0.742 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 41 Resp: 4449

Ion	Ratio	Lower	Upper
41	100		
42	48.2	3.7	5.5#



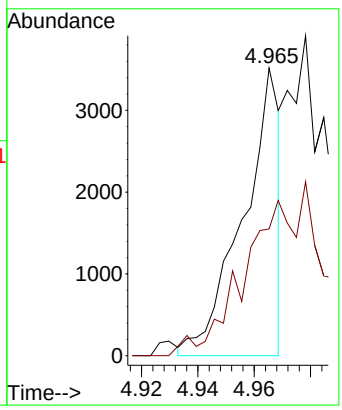


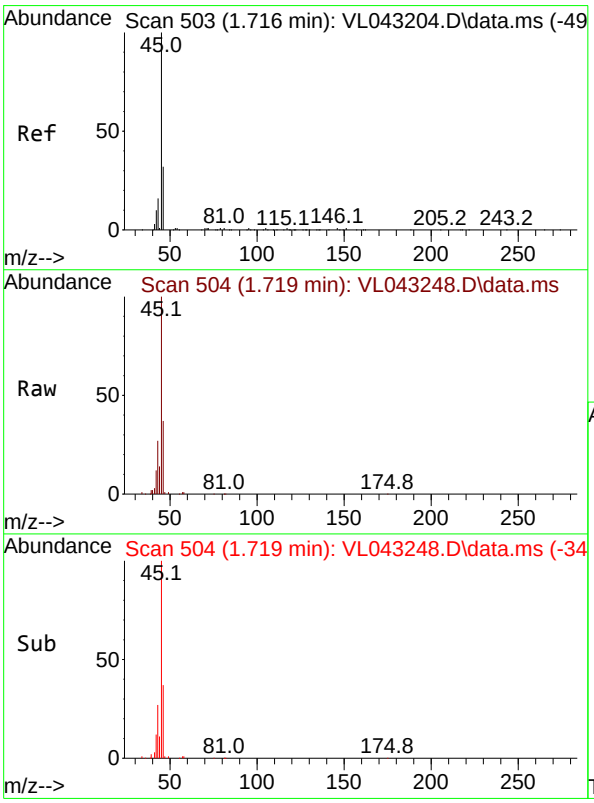
#10
Heptane
Concen: 0.178 ppbv
RT: 4.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion: 43 Resp: 3183

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#

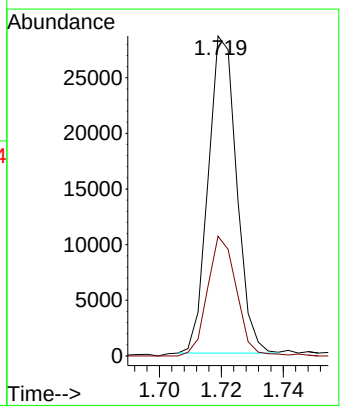


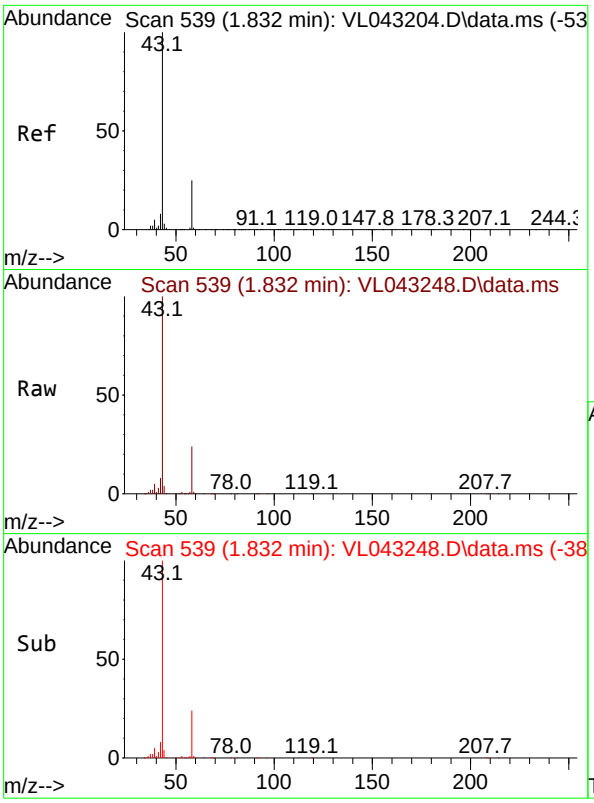


#13
Ethanol
Concen: 8.634 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 45 Resp: 18211

Ion	Ratio	Lower	Upper
45	100		
46	38.5	15.0	59.8



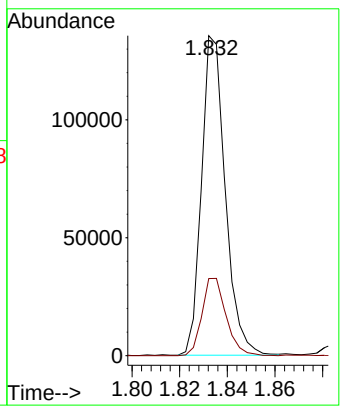


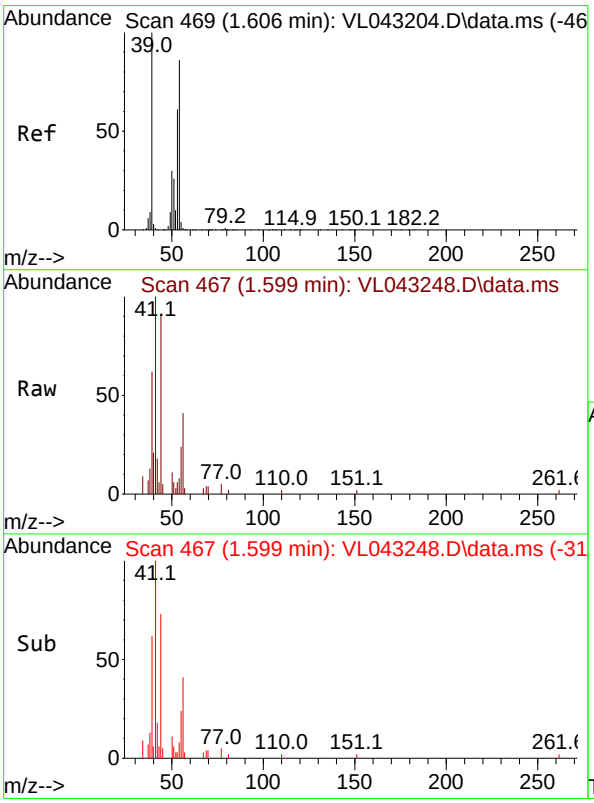
#15
Acetone
Concen: 6.630 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion: 43 Resp: 93799

Ion	Ratio	Lower	Upper
43	100		
58	25.0	20.7	31.1

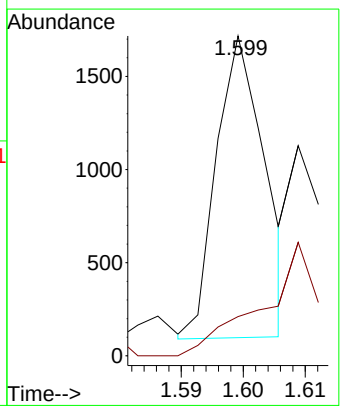


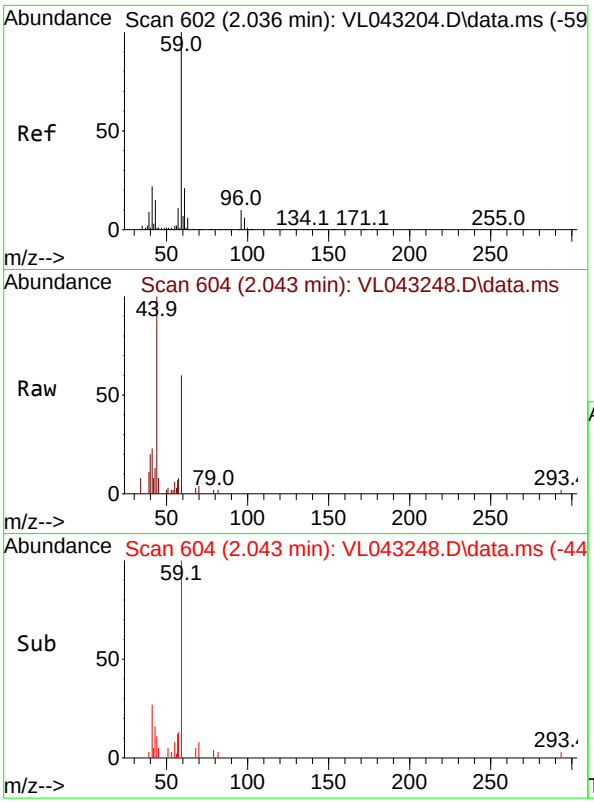


#16
1,3-Butadiene
Concen: 0.140 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 39 Resp: 881

Ion	Ratio	Lower	Upper
39	100		
54	54.8	59.4	89.2#



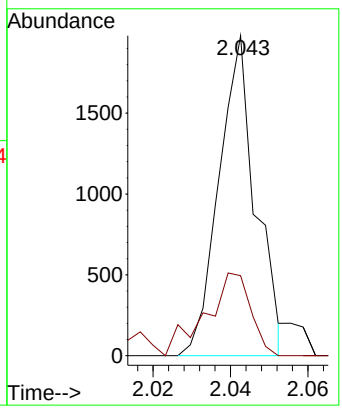


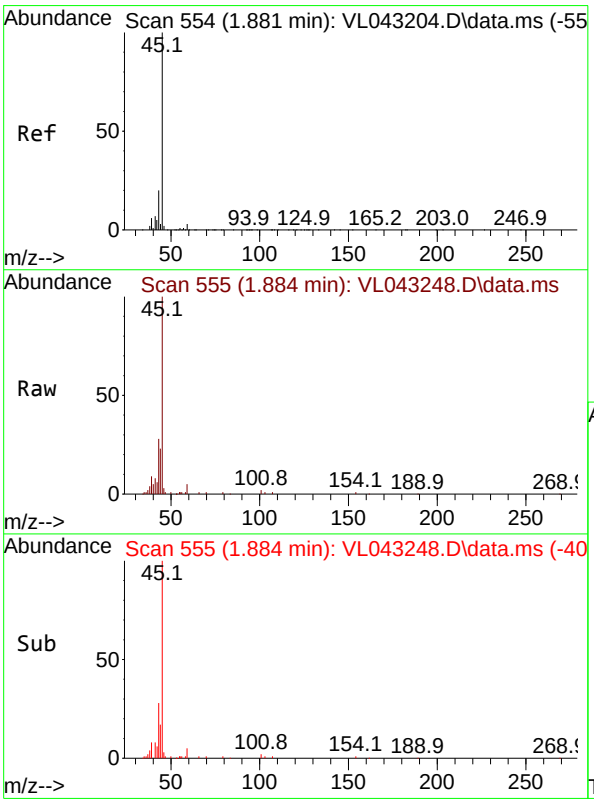
#17
tert-Butyl alcohol
Concen: 0.070 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion: 59 Resp: 1301

Ion	Ratio	Lower	Upper
59	100		
57	36.3	9.0	13.4#

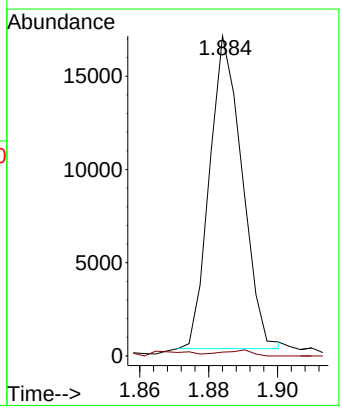


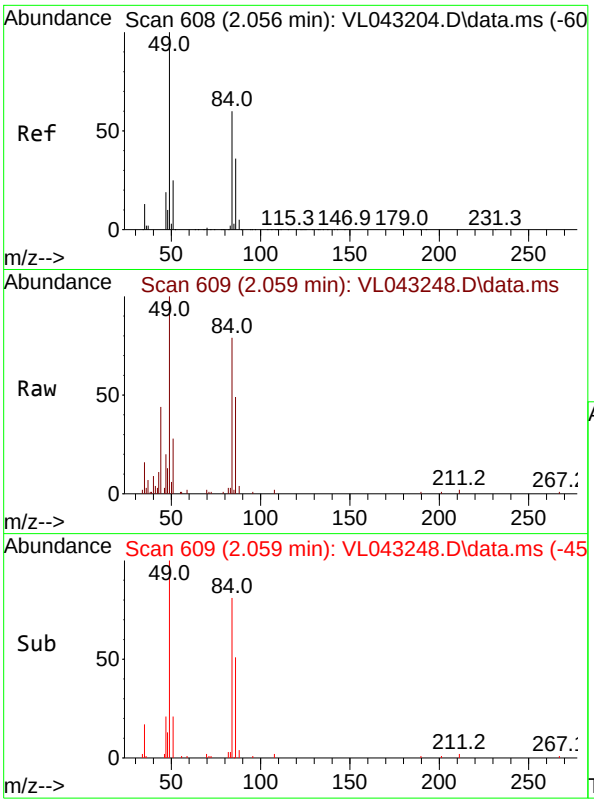


#19
Isopropyl Alcohol
Concen: 1.374 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 45 Resp: 10986

Ion	Ratio	Lower	Upper
45	100		
58	213.6	31.3	46.9#



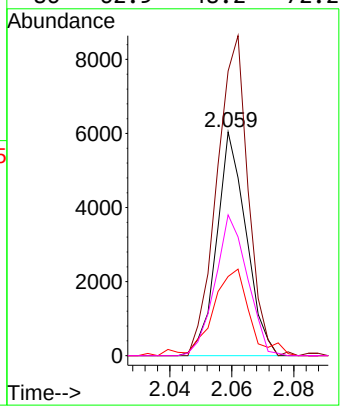


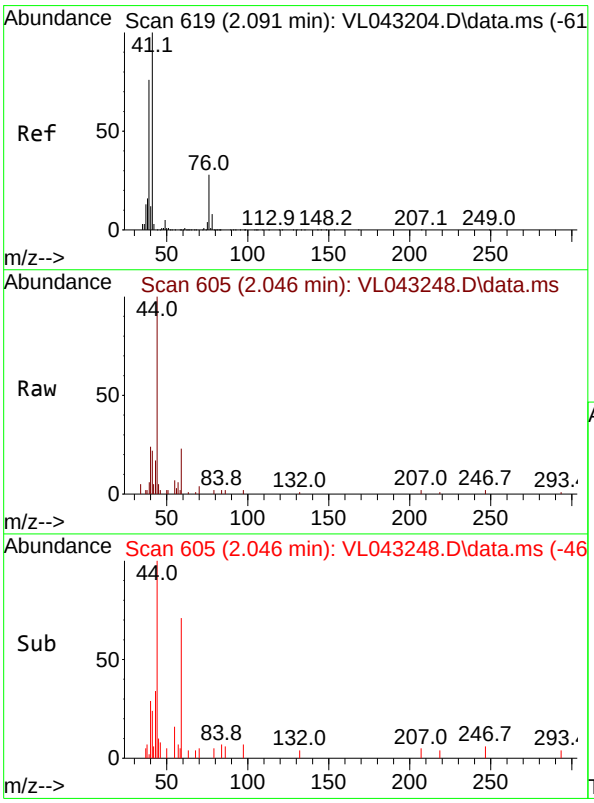
#20
Methylene Chloride
Concen: 0.186 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion: 84 Resp: 3988

Ion	Ratio	Lower	Upper
84	100		
49	127.2	132.9	199.3#
51	33.9	34.8	52.2#
86	62.9	48.2	72.2

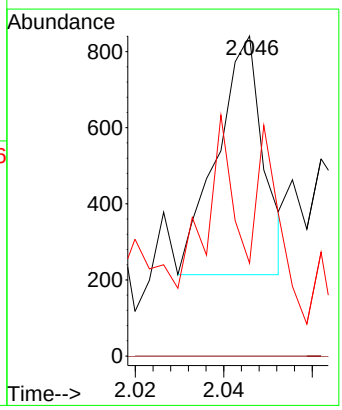


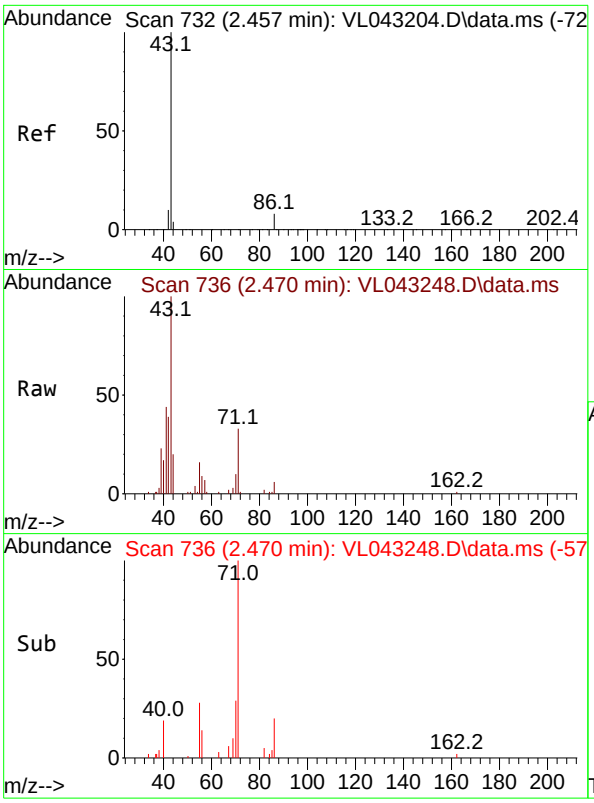


#21
Allyl Chloride
Concen: 0.048 ppbv
RT: 2.046 min Scan# 605
Delta R.T. -0.046 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 41 Resp: 455

Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.1	33.1#
39	91.4	61.0	91.4



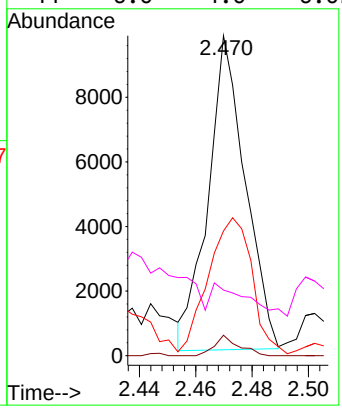


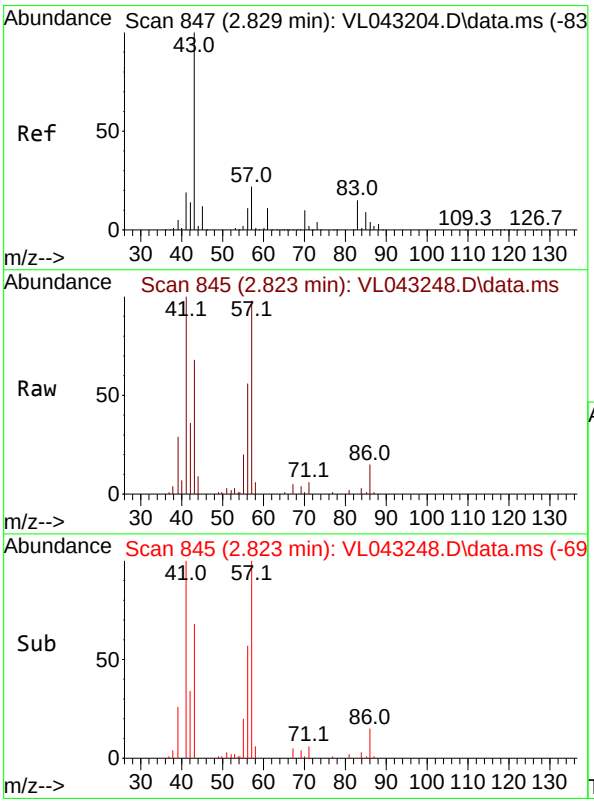
#23
Vinyl Acetate
Concen: 0.521 ppbv
RT: 2.470 min Scan# 7
Delta R.T. 0.013 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion: 43 Resp: 8896

Ion	Ratio	Lower	Upper
43	100		
86	6.6	6.2	9.2
42	38.9	8.0	12.0#
44	6.0	4.0	6.0#

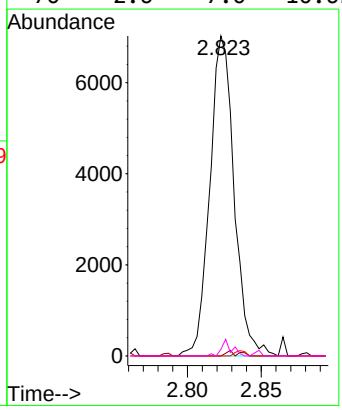


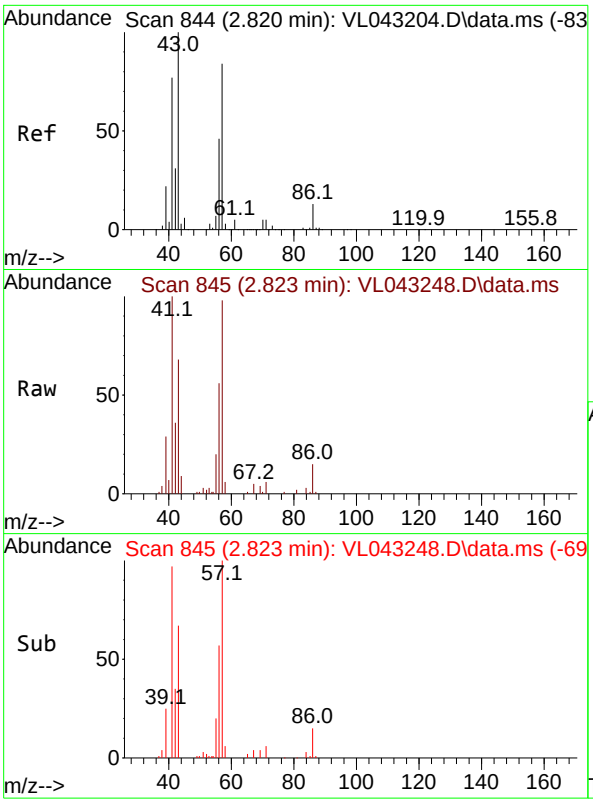


#25
Ethyl Acetate
Concen: 0.265 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.007 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 43 Resp: 8074

Ion	Ratio	Lower	Upper
43	100		
45	0.8	8.1	12.1#
61	0.7	7.0	10.4#
70	2.6	7.0	10.6#



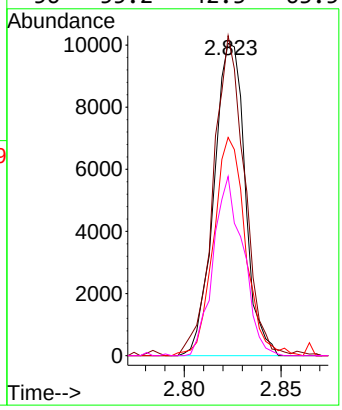


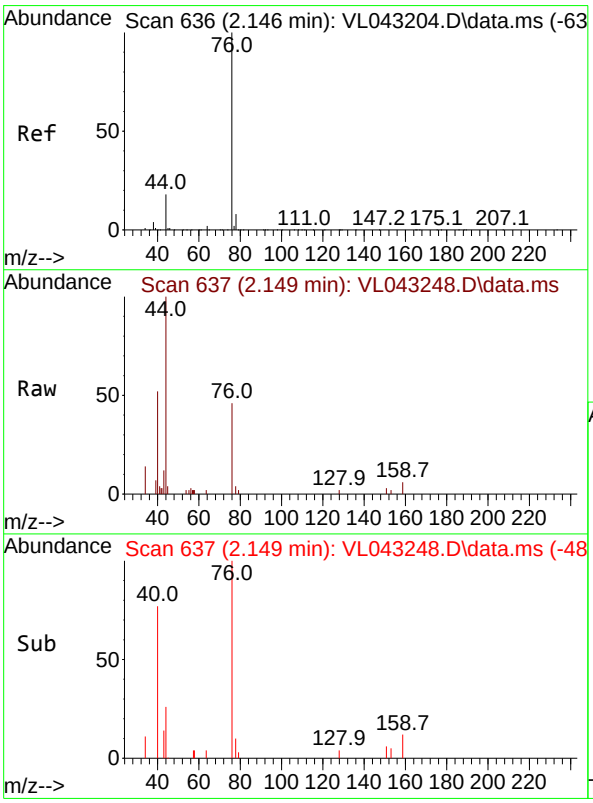
#26
Hexane
Concen: 0.841 ppbv
RT: 2.823 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion: 57 Resp: 11251

Ion	Ratio	Lower	Upper
57	100		
41	103.8	74.6	111.8
43	72.7	179.0	268.4#
56	55.2	42.3	63.5

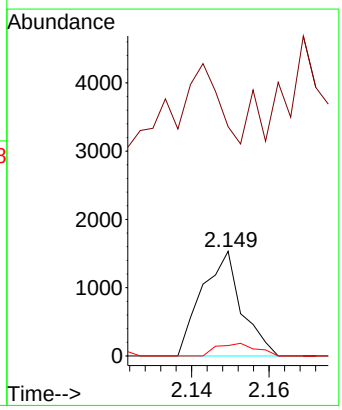


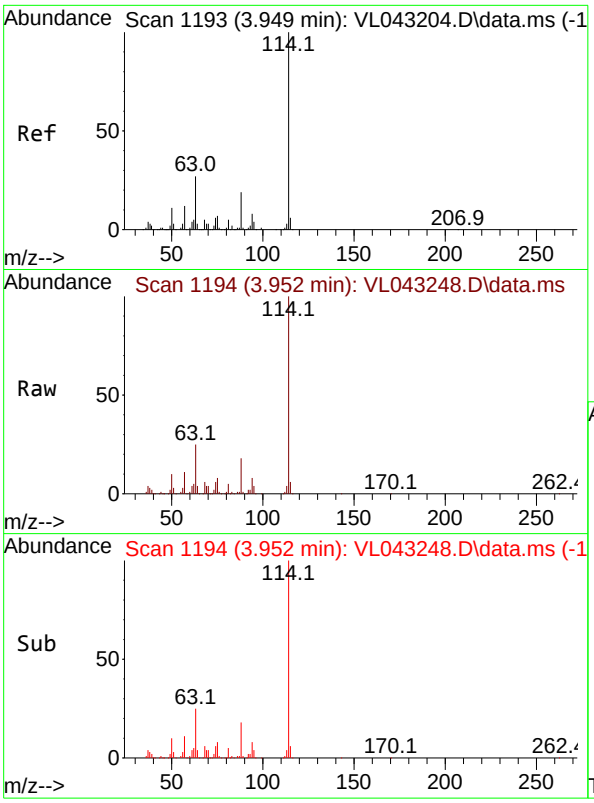


#27
Carbon Disulfide
Concen: 0.080 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 76 Resp: 1091

Ion	Ratio	Lower	Upper
76	100		
44	362.2	16.1	24.1#
78	11.9	9.6	14.4



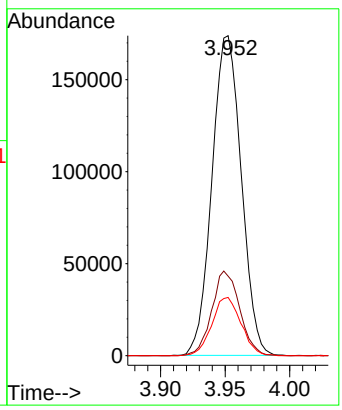


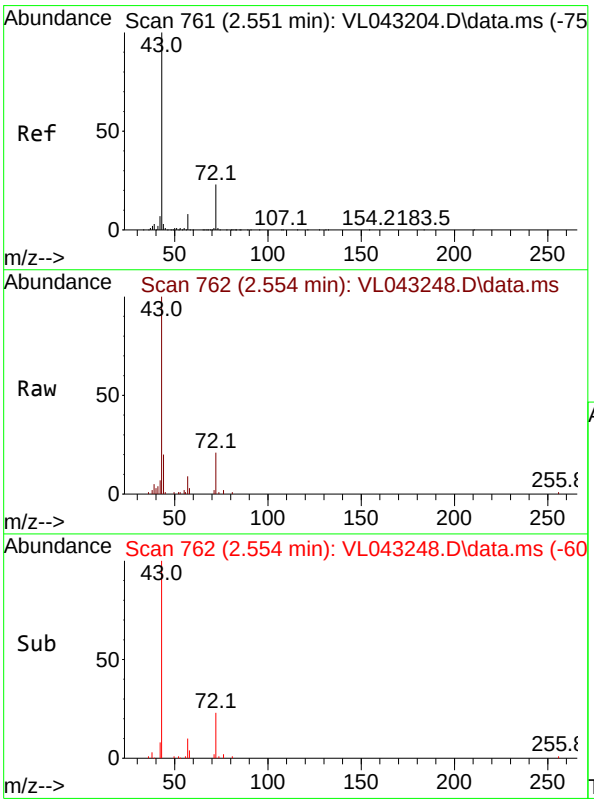
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion:114 Resp: 273802

Ion	Ratio	Lower	Upper
114	100		
63	25.3	21.0	31.6
88	18.1	14.9	22.3

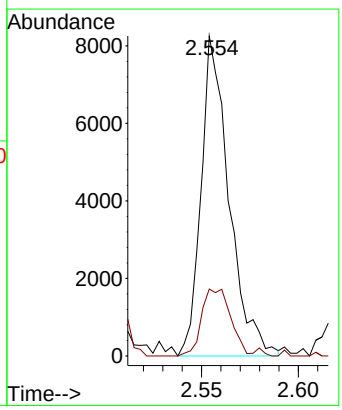


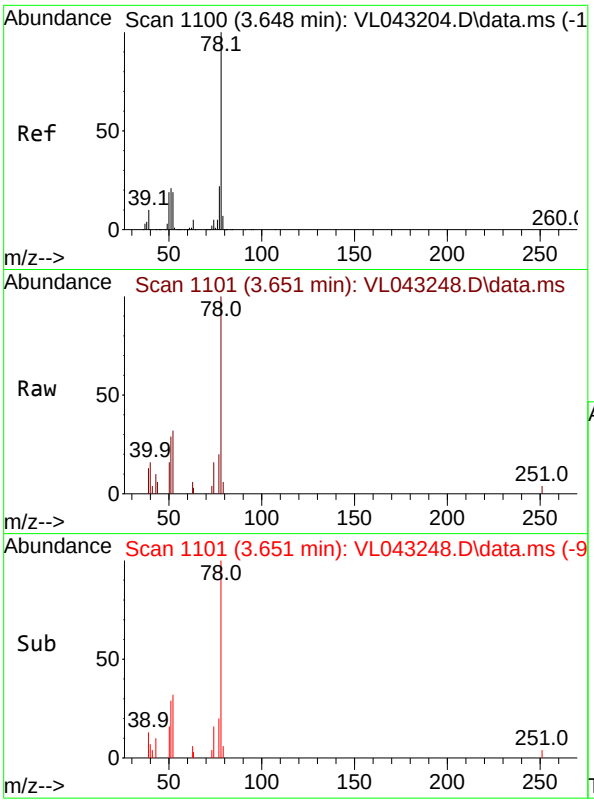


#34
2-Butanone
Concen: 0.429 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 43 Resp: 8284

Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.1	27.1



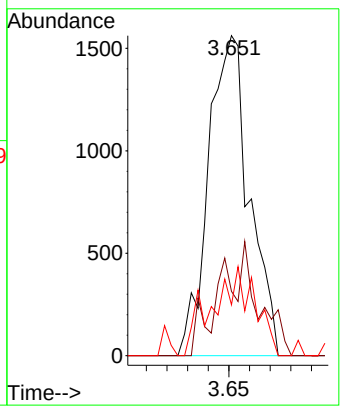


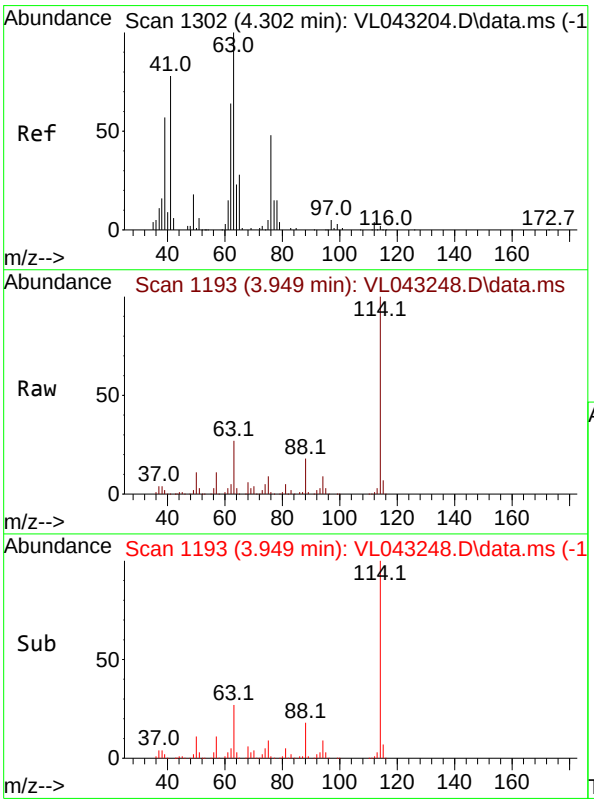
#36
Benzene
Concen: 0.082 ppbv
RT: 3.651 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion: 78 Resp: 2149

Ion	Ratio	Lower	Upper
78	100		
77	20.1	17.5	26.3
50	15.9	15.5	23.3

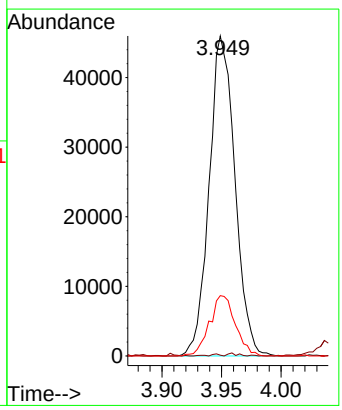


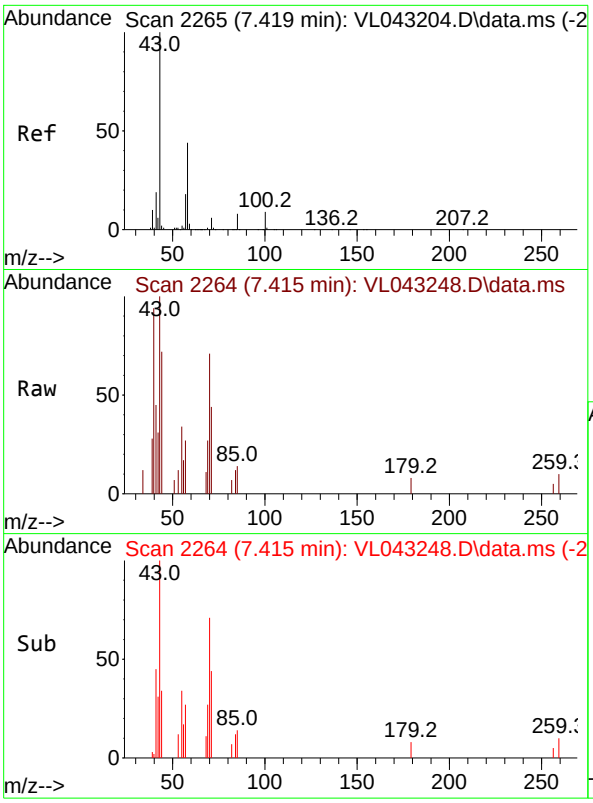


#39
1,2-Dichloropropane
Concen: 7.209 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.353 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 63 Resp: 69184

Ion	Ratio	Lower	Upper
63	100		
41	0.1	62.6	93.8#
62	18.8	51.0	76.6#



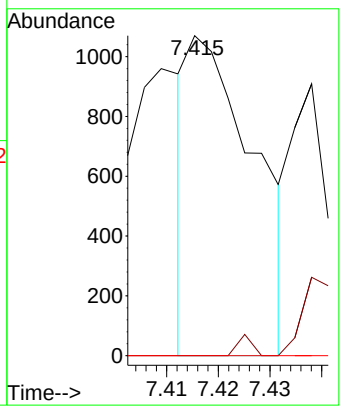


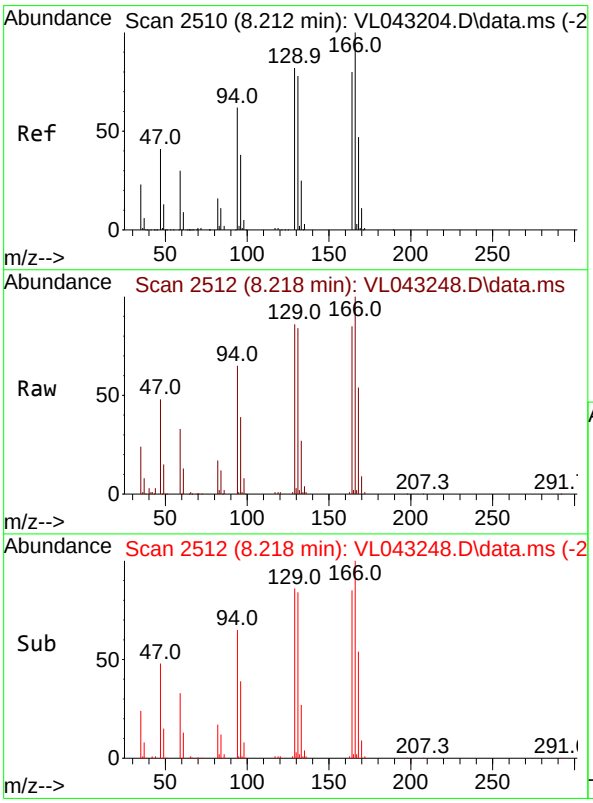
#51
2-Hexanone
Concen: 0.045 ppbv
RT: 7.415 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion: 43 Resp: 947

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

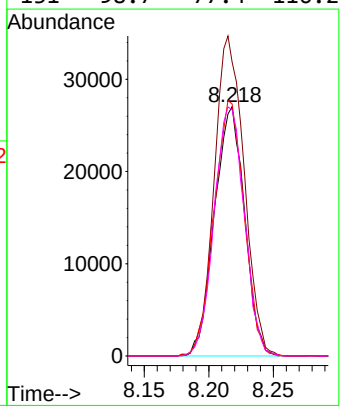


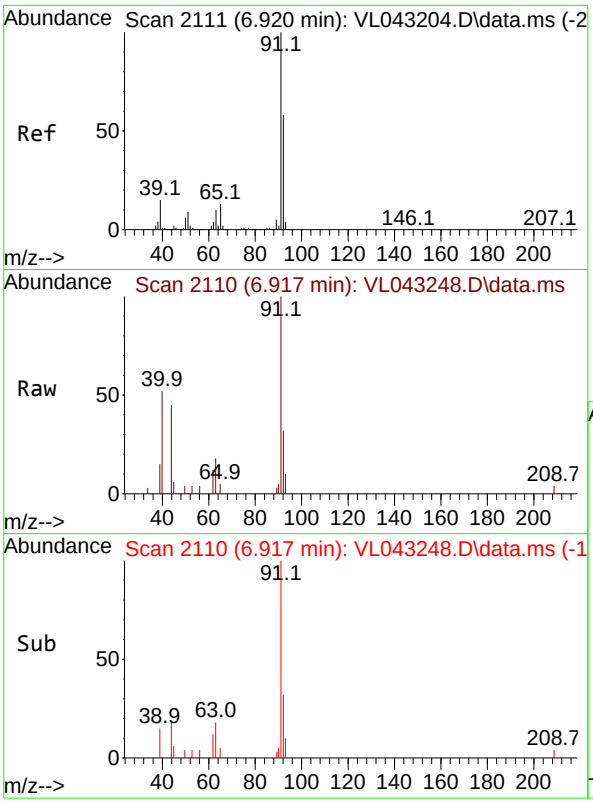


#52
Tetrachloroethene
Concen: 4.469 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion:164 Resp: 43592

Ion	Ratio	Lower	Upper
164	100		
166	117.9	99.4	149.2
129	101.1	81.8	122.8
131	98.7	77.4	116.2



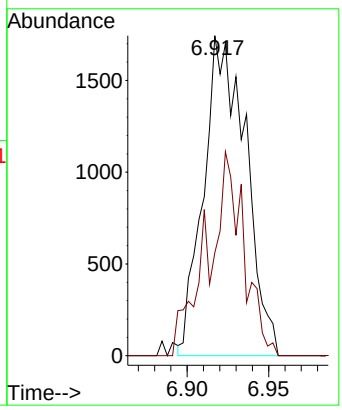


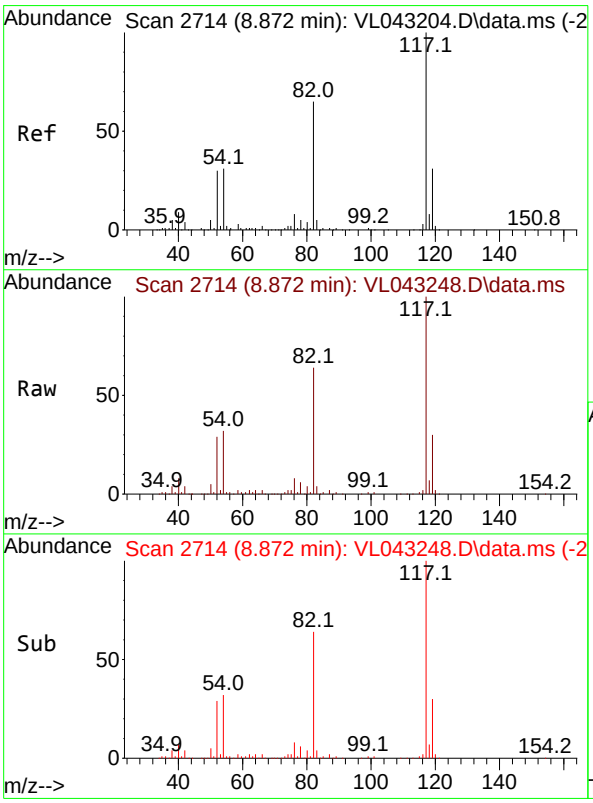
#53
Toluene
Concen: 0.101 ppbv
RT: 6.917 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion: 91 Resp: 3140

Ion	Ratio	Lower	Upper
91	100		
92	54.8	47.4	71.0

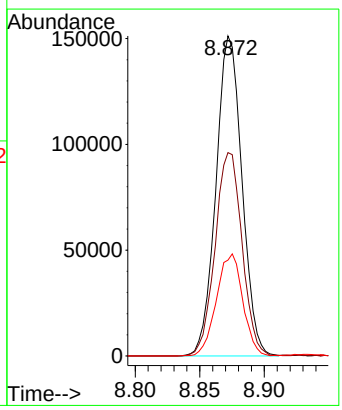


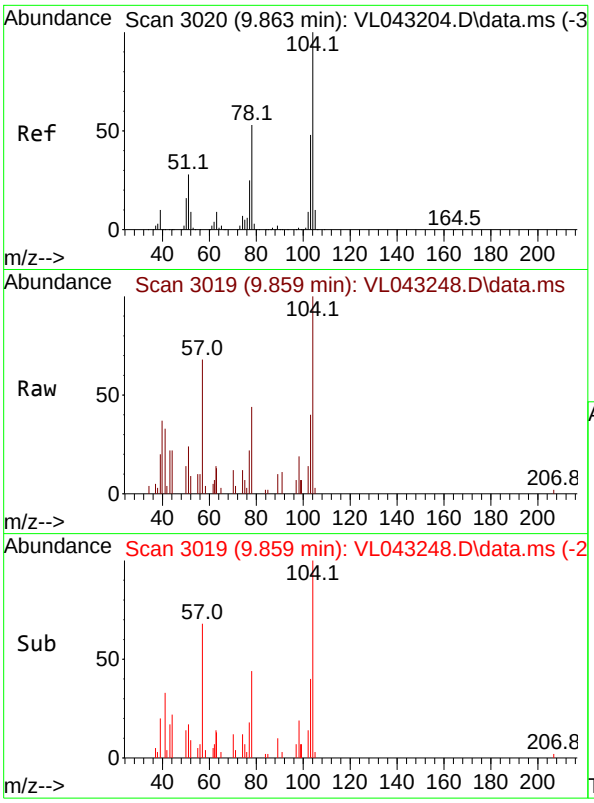


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion:117 Resp: 211877

Ion	Ratio	Lower	Upper
117	100		
82	66.1	56.1	84.1
119	32.3	25.0	37.6



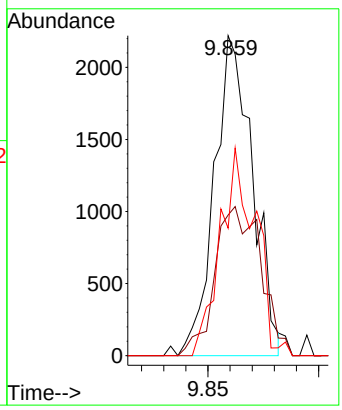


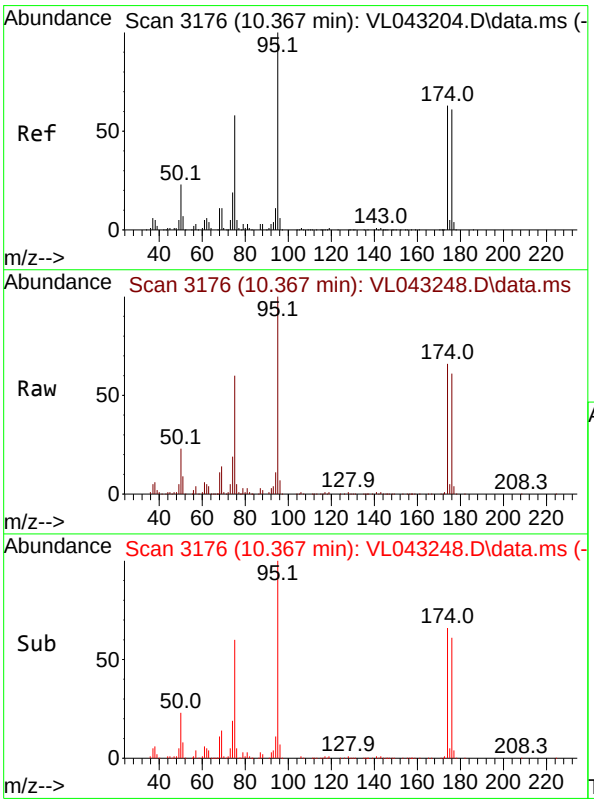
#61
Styrene
Concen: 0.186 ppbv
RT: 9.859 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion:104 Resp: 2665

Ion	Ratio	Lower	Upper
104	100		
78	56.2	42.1	63.1
103	59.7	37.2	55.8#

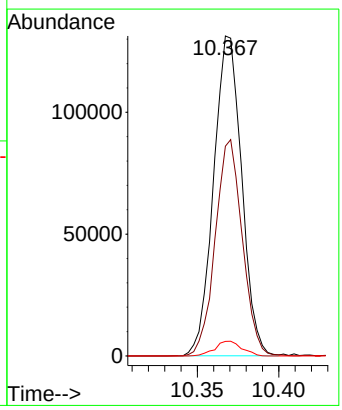


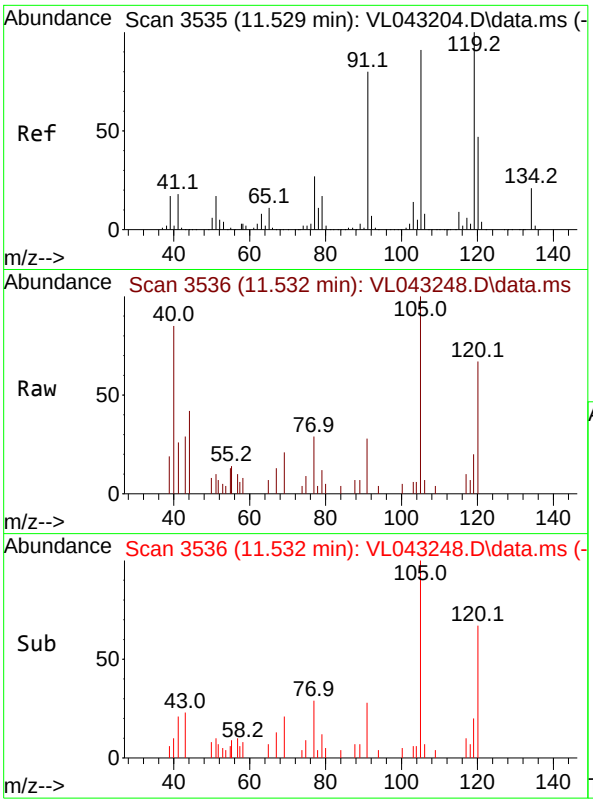


#68
1-Bromo-4-Fluorobenzene
Concen: 10.097 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 95 Resp: 156816

Ion	Ratio	Lower	Upper
95	100		
174	65.4	50.2	75.2
175	4.4	4.1	6.1



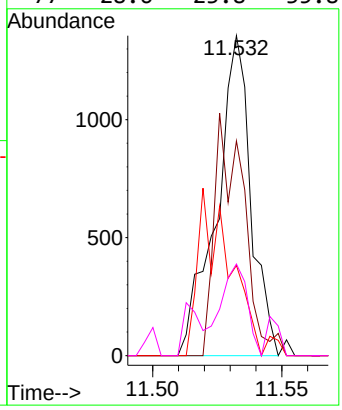


#74
1,2,4-Trimethylbenzene
Concen: 0.034 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

Tgt Ion:105 Resp: 1254

Ion	Ratio	Lower	Upper
105	100		
120	67.1	41.7	62.5#
91	28.2	70.0	105.0#
77	28.6	23.8	35.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043249.D
Acq On : 19 Nov 2025 21:01
Operator : SY/MD
Sample : Q3626-02DUP 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Quant Time: Nov 20 00:10:42 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

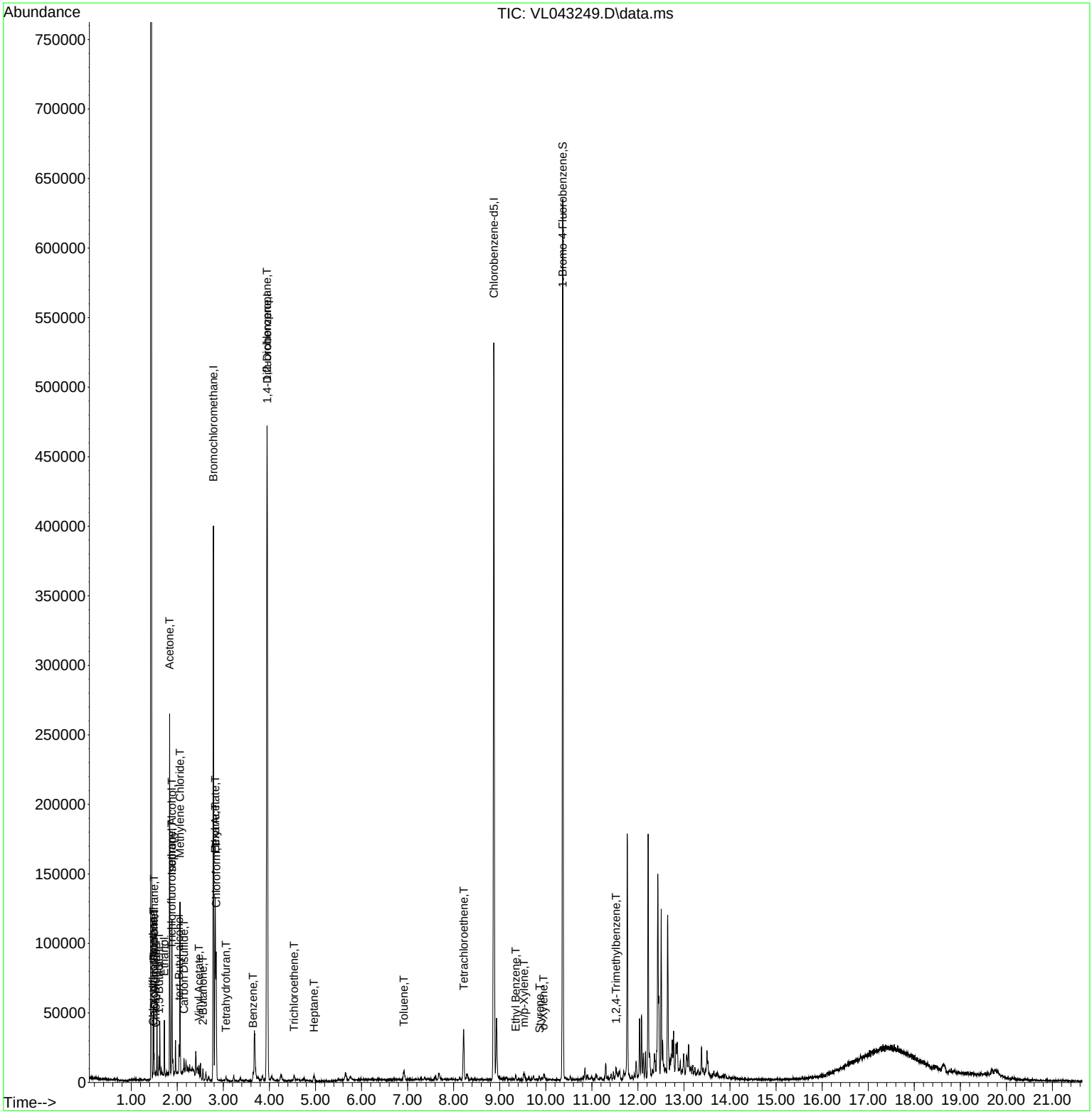
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	99705	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	276826	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	209824	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	154207	10.026	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	4070	0.289	ppbv		91
3) Chlorodifluoromethane	1.476	51	3532	0.255	ppbv	#	79
4) Chloromethane	1.531	50	514	0.098	ppbv	#	85
9) Propene	1.486	41	4782	0.814	ppbv	#	1
10) Heptane	4.965	43	723	0.041	ppbv	#	1
11) Trichlorofluoromethane	1.878	101	4186	0.307	ppbv		97
13) Ethanol	1.719	45	13138	6.362	ppbv		99
15) Acetone	1.832	43	110125	7.950	ppbv		98
16) 1,3-Butadiene	1.603	39	2105	0.341	ppbv	#	45
17) tert-Butyl alcohol	2.040	59	8475	0.466	ppbv		97
19) Isopropyl Alcohol	1.884	45	45218	5.777	ppbv	#	66
20) Methylene Chloride	2.059	84	18957	4.188	ppbv		91
23) Vinyl Acetate	2.470	43	2224	0.133	ppbv	#	44
25) Ethyl Acetate	2.823	43	20994	0.703	ppbv	#	80
26) Hexane	2.823	57	29288	2.236	ppbv	#	42
27) Carbon Disulfide	2.146	76	4694	0.351	ppbv	#	1
29) Chloroform	2.845	83	34264	1.840	ppbv		98
34) 2-Butanone	2.557	43	4730	0.242	ppbv		99
36) Benzene	3.645	78	3642	0.137	ppbv		95
38) Trichloroethene	4.532	130	369	0.036	ppbv		88
39) 1,2-Dichloropropane	3.949	63	68478	7.057	ppbv	#	24
41) Tetrahydrofuran	3.059	42	537	0.050	ppbv	#	62
52) Tetrachloroethene	8.222	164	2471	0.251	ppbv	#	77
53) Toluene	6.917	91	3835	0.122	ppbv	#	76
58) Ethyl Benzene	9.348	91	1400	0.035	ppbv		96
59) m/p-Xylene	9.526	91	3209	0.099	ppbv		92
60) o-Xylene	9.953	91	1059	0.033	ppbv		76
61) Styrene	9.866	104	633	0.045	ppbv		95
74) 1,2,4-Trimethylbenzene	11.526	105	1628	0.045	ppbv	#	53

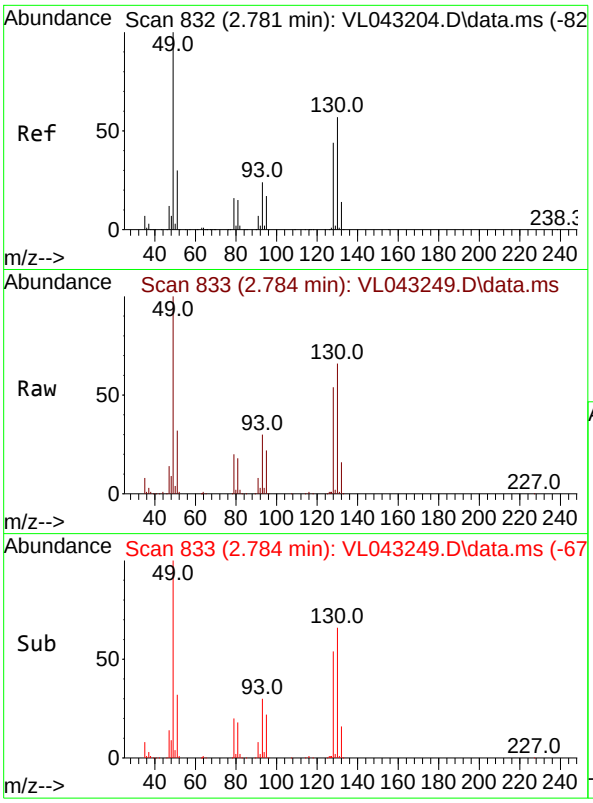
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043249.D
Acq On : 19 Nov 2025 21:01
Operator : SY/MD
Sample : Q3626-02DUP 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Quant Time: Nov 20 00:10:42 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



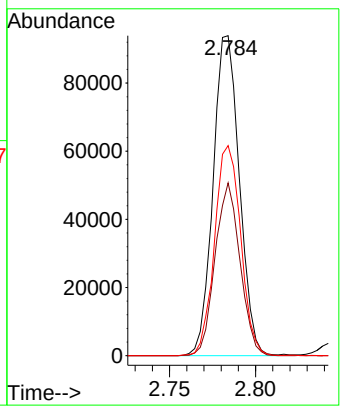


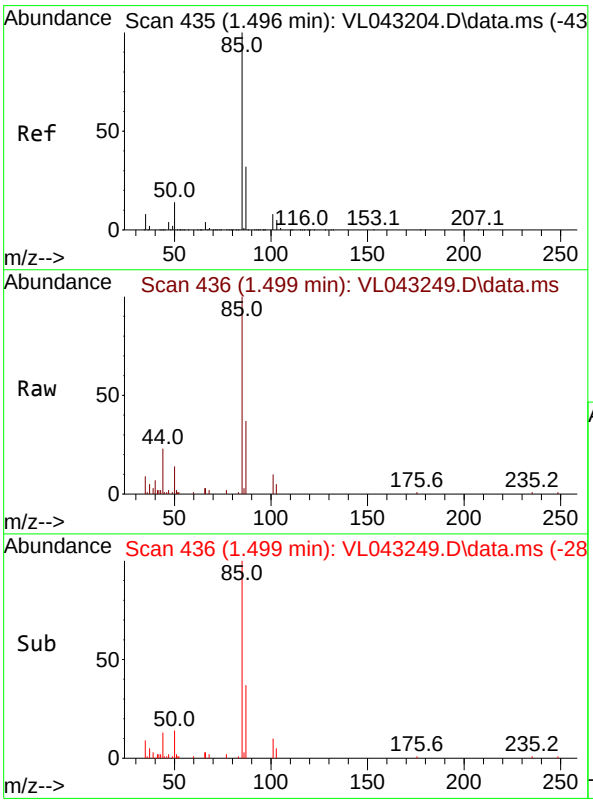
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 49 Resp: 99705

Ion	Ratio	Lower	Upper
49	100		
128	51.2	23.0	69.0
130	65.5	29.9	89.7

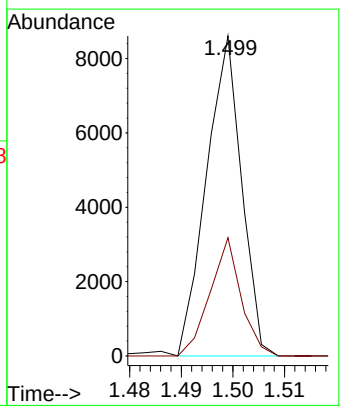


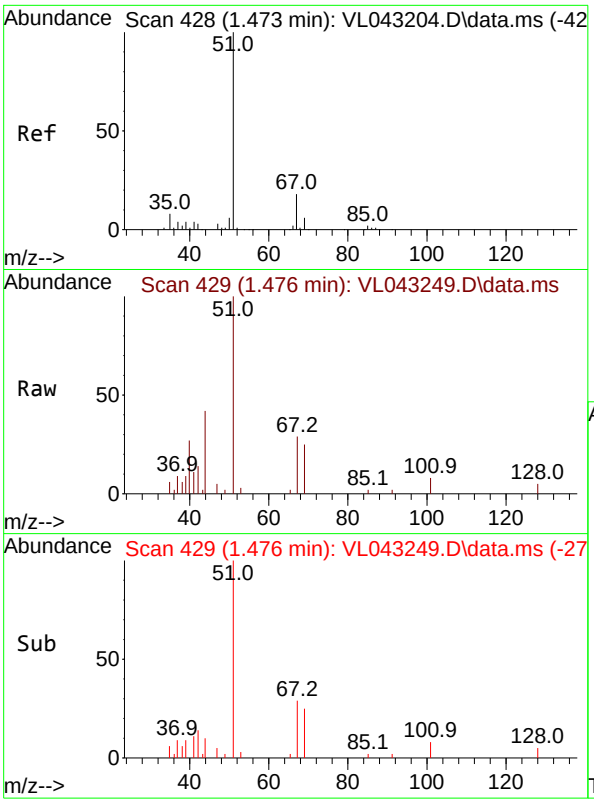


#2
Dichlorodifluoromethane
Concen: 0.289 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 85 Resp: 4070

Ion	Ratio	Lower	Upper
85	100		
87	37.0	25.4	38.2



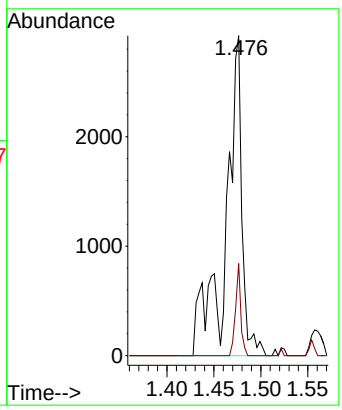


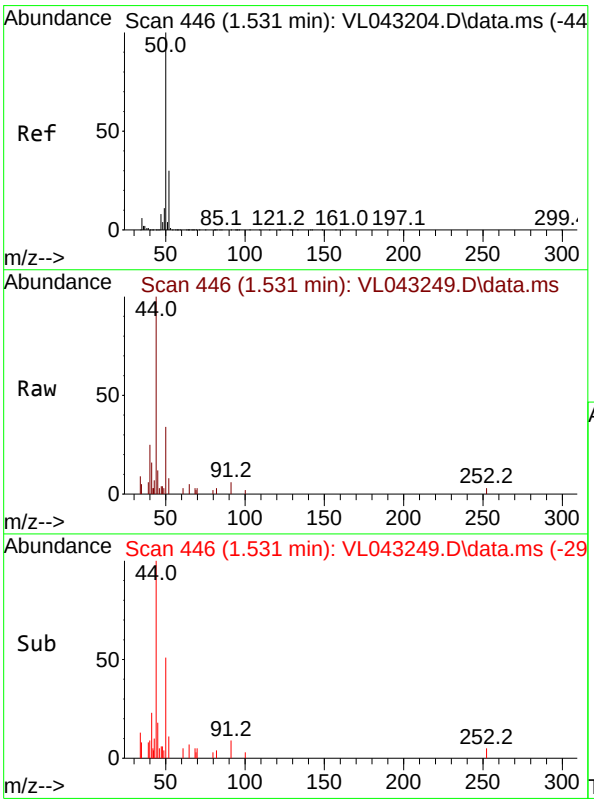
#3
Chlorodifluoromethane
Concen: 0.255 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 51 Resp: 3532

Ion	Ratio	Lower	Upper
51	100		
67	9.2	14.9	22.3#

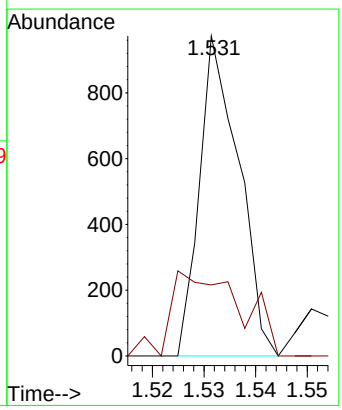


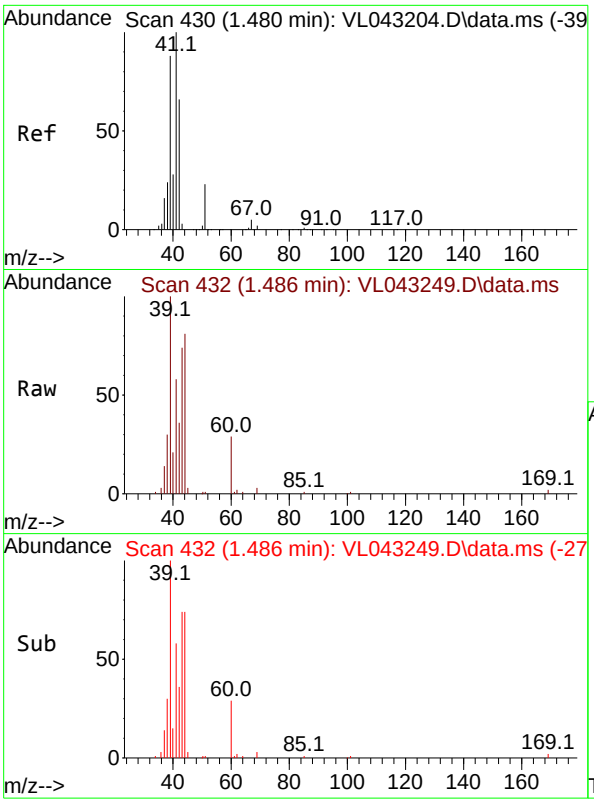


#4
Chloromethane
Concen: 0.098 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 50 Resp: 514

Ion	Ratio	Lower	Upper
50	100		
52	22.2	24.1	36.1#



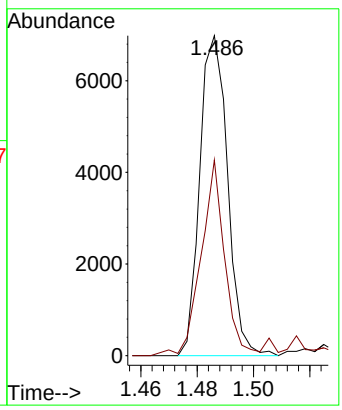


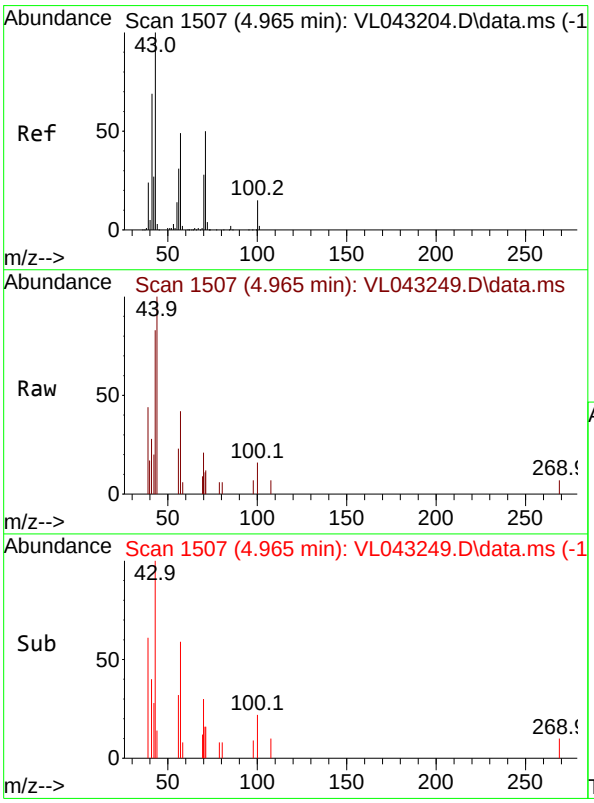
#9
Propene
Concen: 0.814 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 41 Resp: 4782

Ion	Ratio	Lower	Upper
41	100		
42	53.5	3.7	5.5#

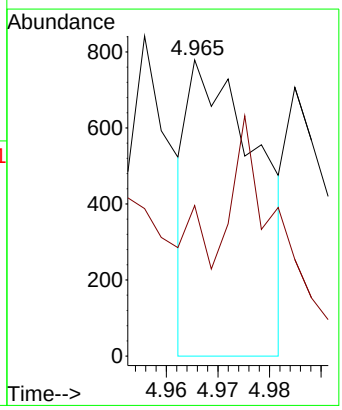


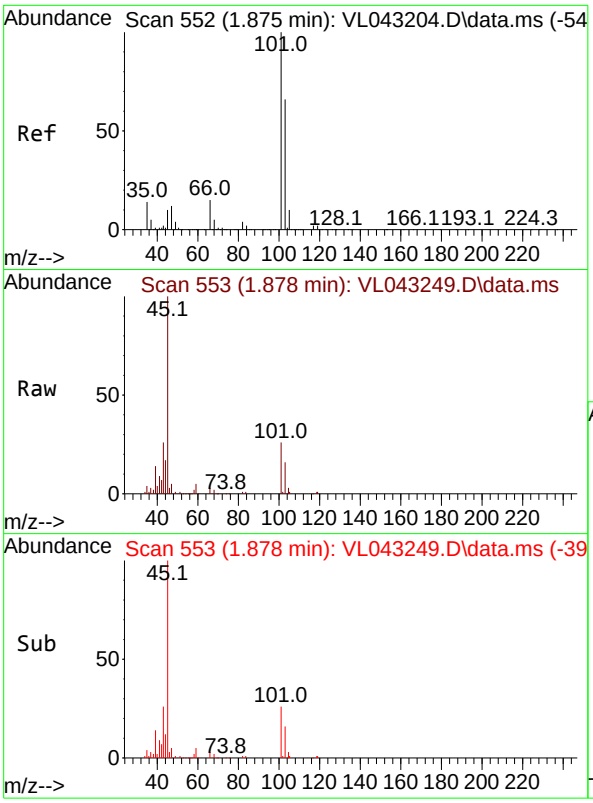


#10
Heptane
Concen: 0.041 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 43 Resp: 723

Ion	Ratio	Lower	Upper
43	100		
57	125.2	39.7	59.5#



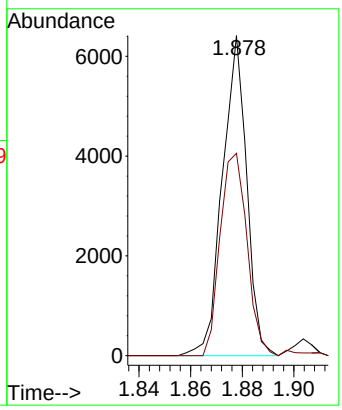


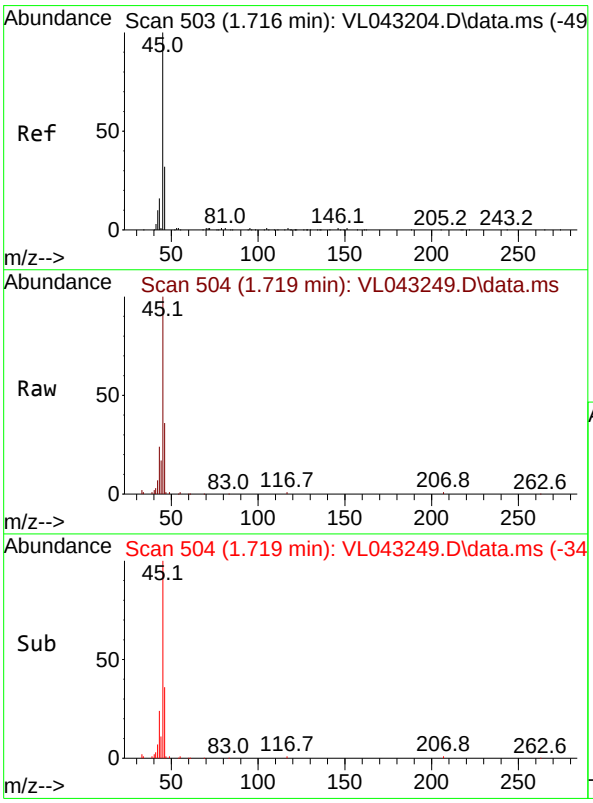
#11
Trichlorofluoromethane
Concen: 0.307 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion:101 Resp: 4186

Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.6	79.0

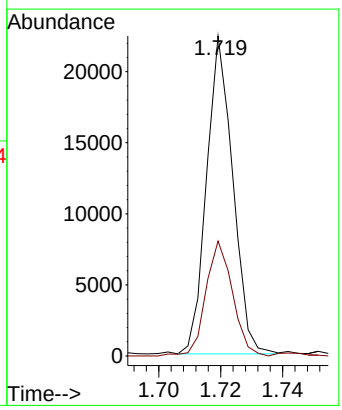


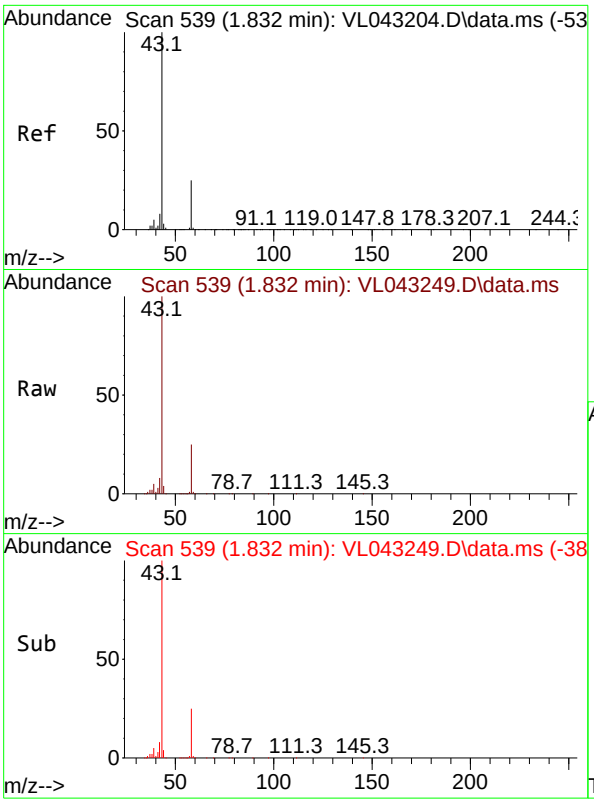


#13
Ethanol
Concen: 6.362 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 45 Resp: 13138

Ion	Ratio	Lower	Upper
45	100		
46	37.7	15.0	59.8



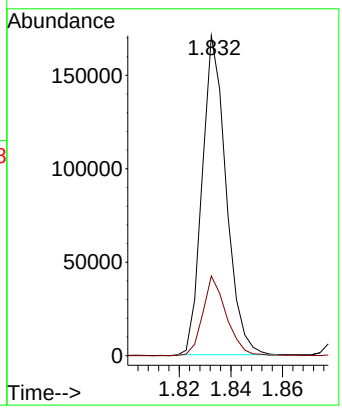


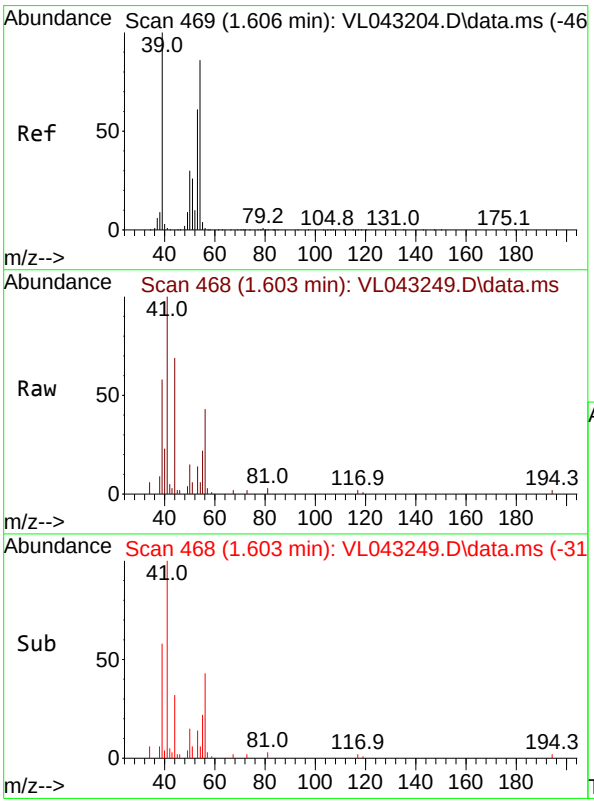
#15
Acetone
Concen: 7.950 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 43 Resp: 110125

Ion	Ratio	Lower	Upper
43	100		
58	24.6	20.7	31.1

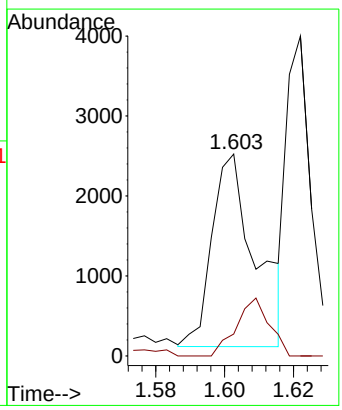


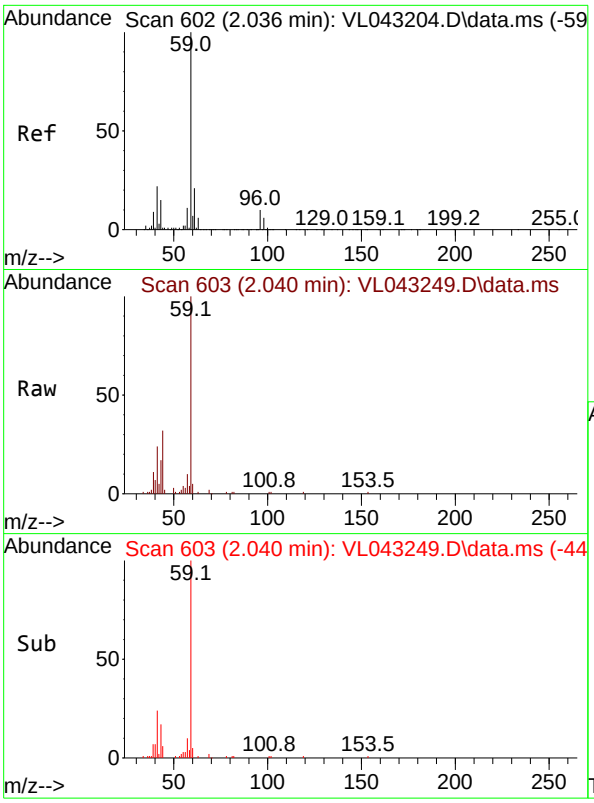


#16
1,3-Butadiene
Concen: 0.341 ppbv
RT: 1.603 min Scan# 468
Delta R.T. -0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 39 Resp: 2105

Ion	Ratio	Lower	Upper
39	100		
54	27.4	59.4	89.2#



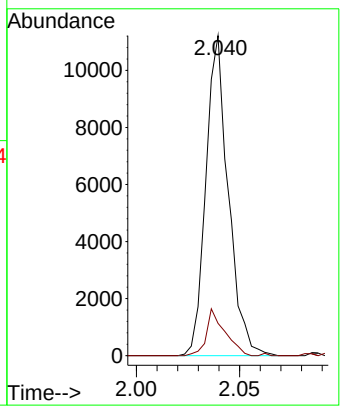


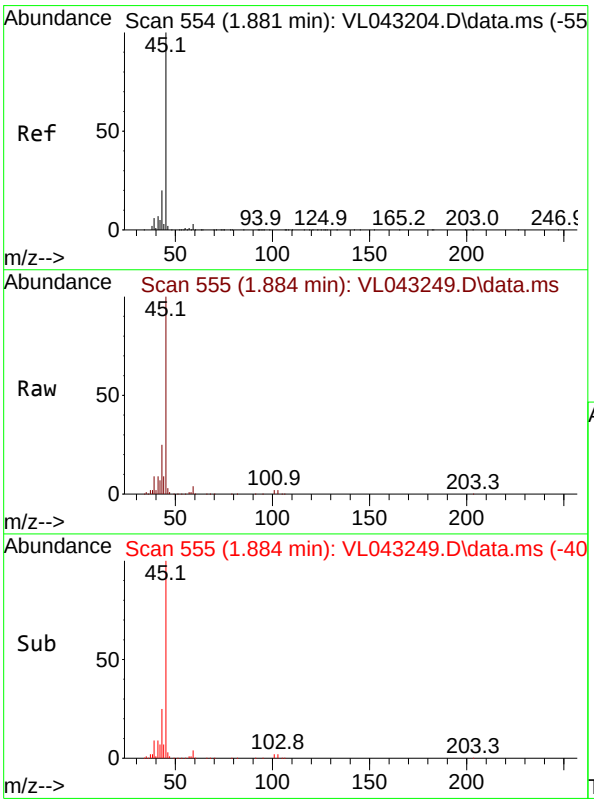
#17
tert-Butyl alcohol
Concen: 0.466 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 59 Resp: 8475

Ion	Ratio	Lower	Upper
59	100		
57	12.2	9.0	13.4

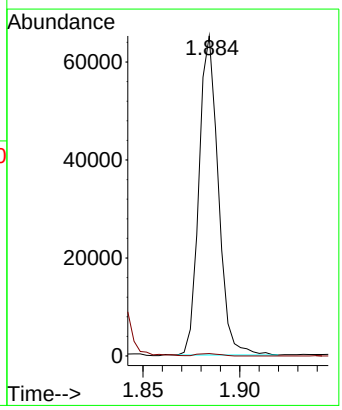


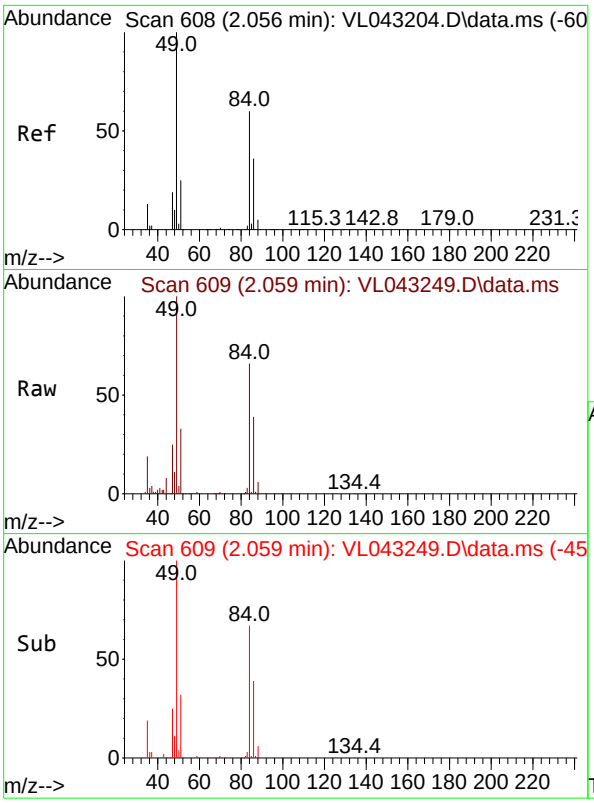


#19
Isopropyl Alcohol
Concen: 5.777 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 45 Resp: 45218

Ion	Ratio	Lower	Upper
45	100		
58	60.0	31.3	46.9#



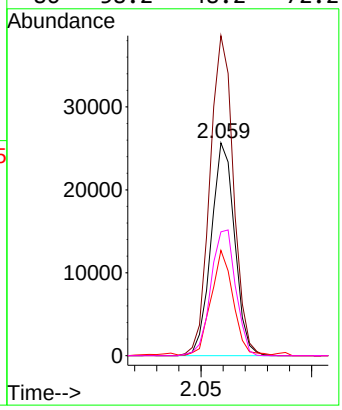


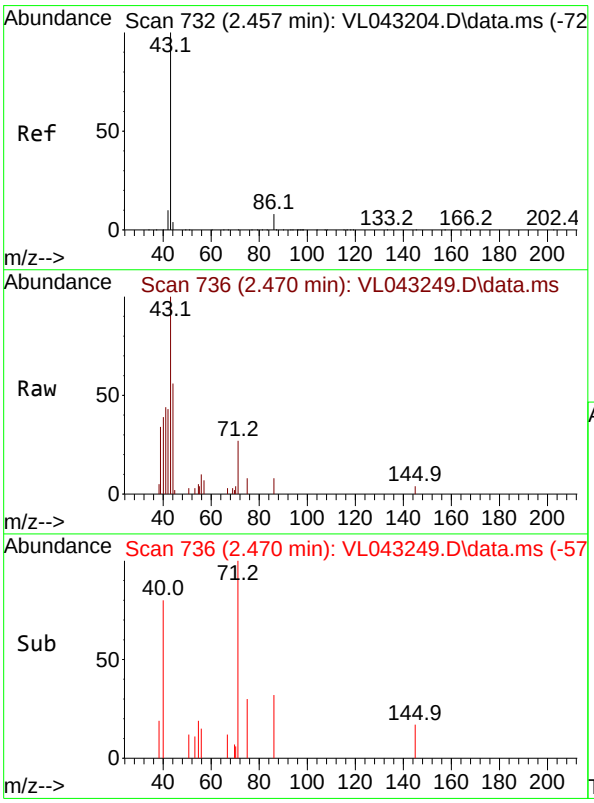
#20
Methylene Chloride
Concen: 4.188 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 84 Resp: 18957

Ion	Ratio	Lower	Upper
84	100		
49	150.4	132.9	199.3
51	49.1	34.8	52.2
86	58.2	48.2	72.2

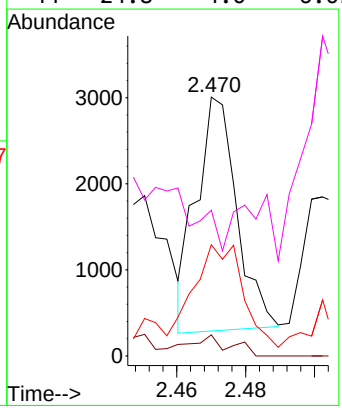


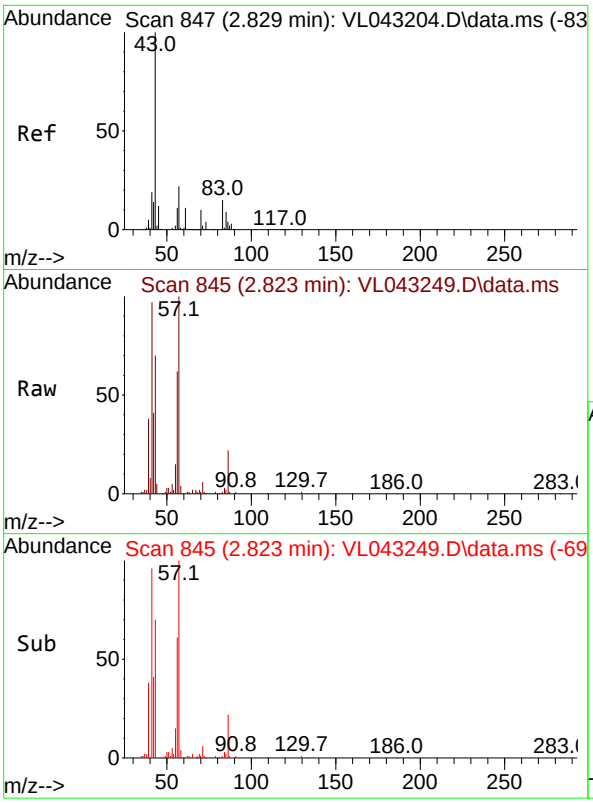


#23
Vinyl Acetate
Concen: 0.133 ppbv
RT: 2.470 min Scan# 736
Delta R.T. 0.013 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 43 Resp: 2224

Ion	Ratio	Lower	Upper
43	100		
86	9.3	6.2	9.2#
42	45.0	8.0	12.0#
44	24.8	4.0	6.0#



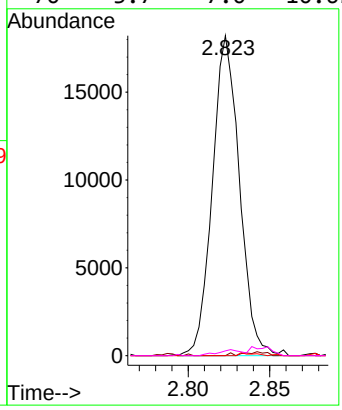


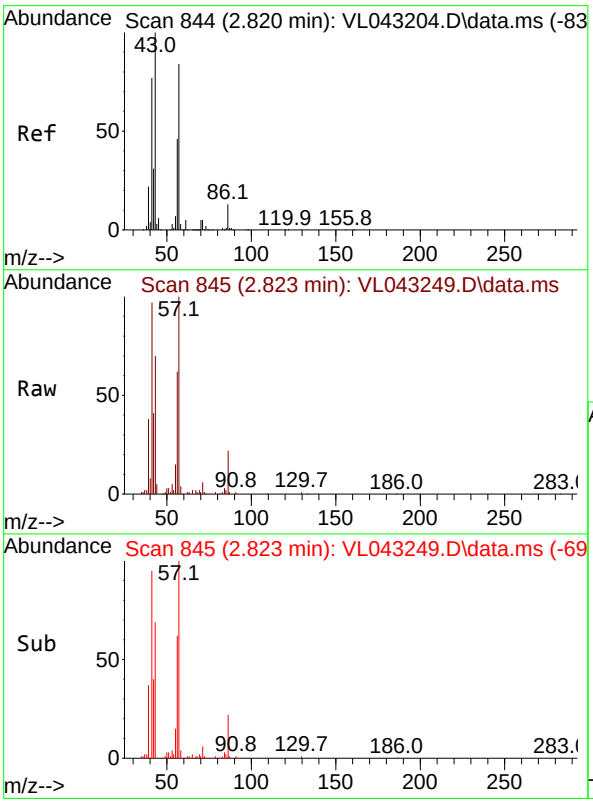
#25
Ethyl Acetate
Concen: 0.703 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.006 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 43 Resp: 20994

Ion	Ratio	Lower	Upper
43	100		
45	1.0	8.1	12.1#
61	0.8	7.0	10.4#
70	3.7	7.0	10.6#

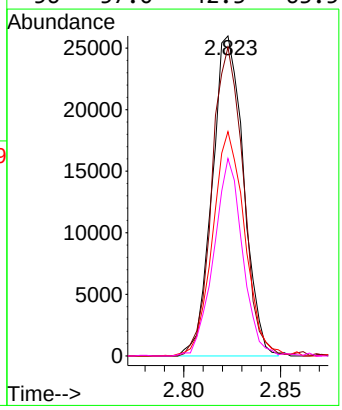


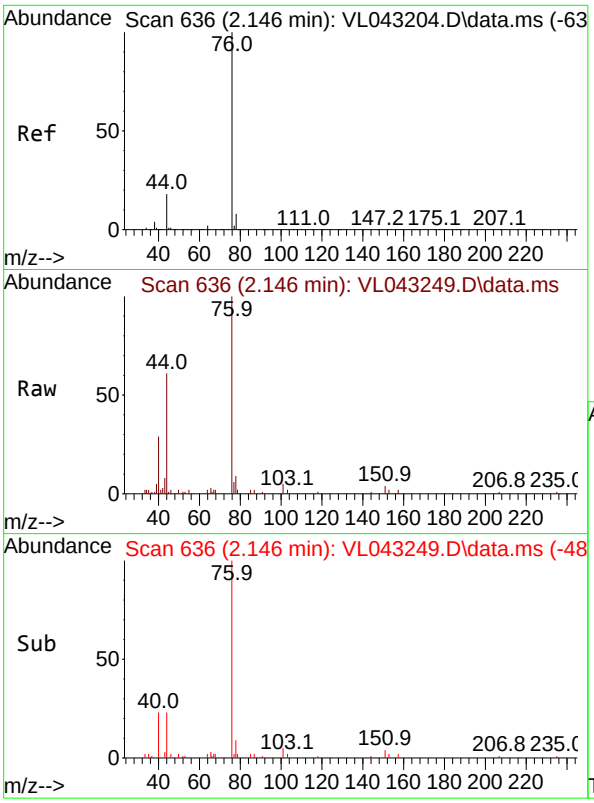


#26
Hexane
Concen: 2.236 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 57 Resp: 29288

Ion	Ratio	Lower	Upper
57	100		
41	96.8	74.6	111.8
43	71.9	179.0	268.4#
56	57.0	42.3	63.5



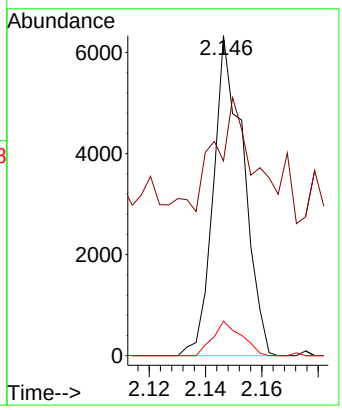


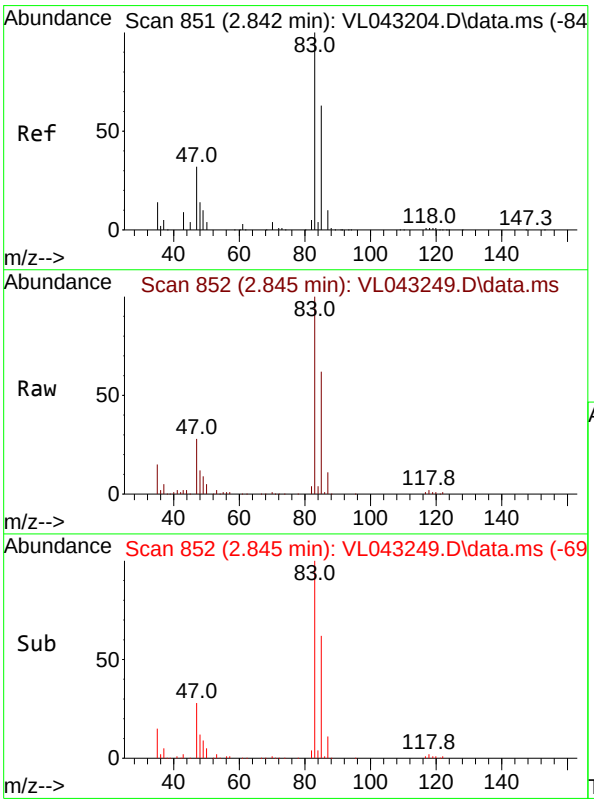
#27
Carbon Disulfide
Concen: 0.351 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 76 Resp: 4694

Ion	Ratio	Lower	Upper
76	100		
44	132.7	16.1	24.1#
78	10.5	9.6	14.4

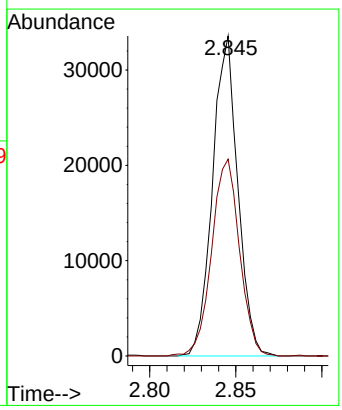


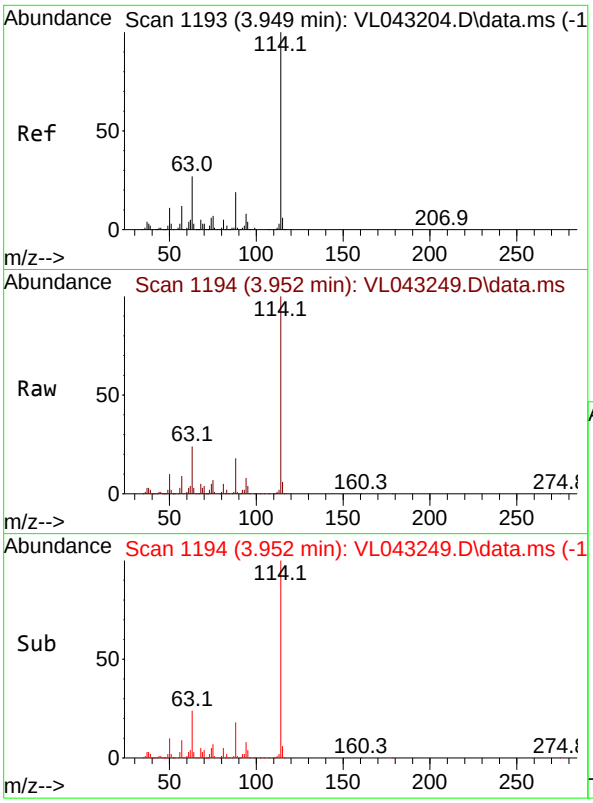


#29
Chloroform
Concen: 1.840 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 83 Resp: 34264

Ion	Ratio	Lower	Upper
83	100		
85	61.5	50.5	75.7



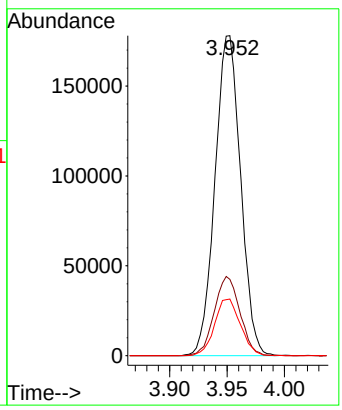


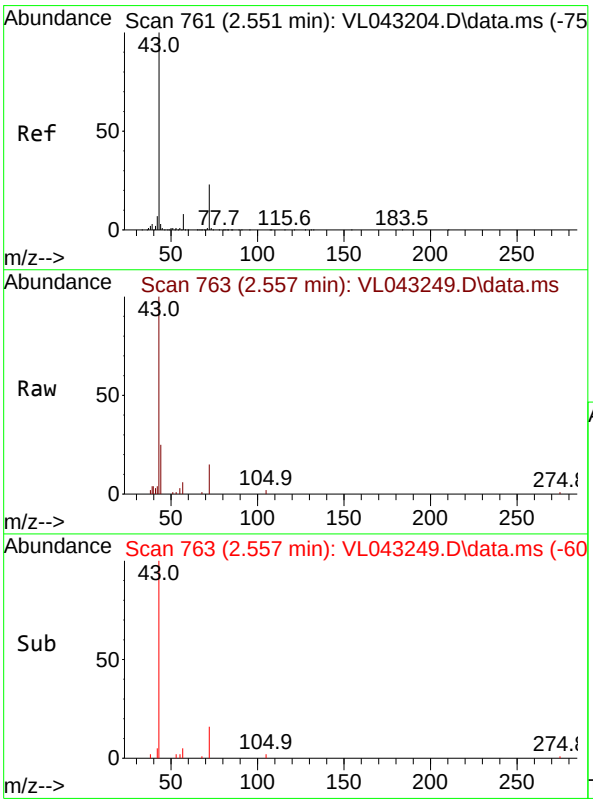
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion:114 Resp: 276826

Ion	Ratio	Lower	Upper
114	100		
63	24.8	21.0	31.6
88	17.9	14.9	22.3

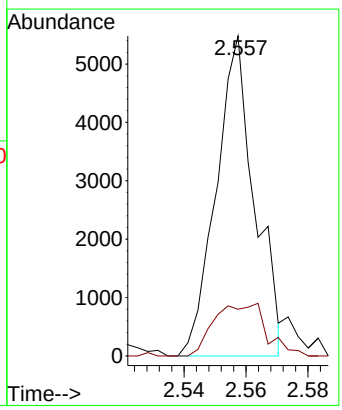


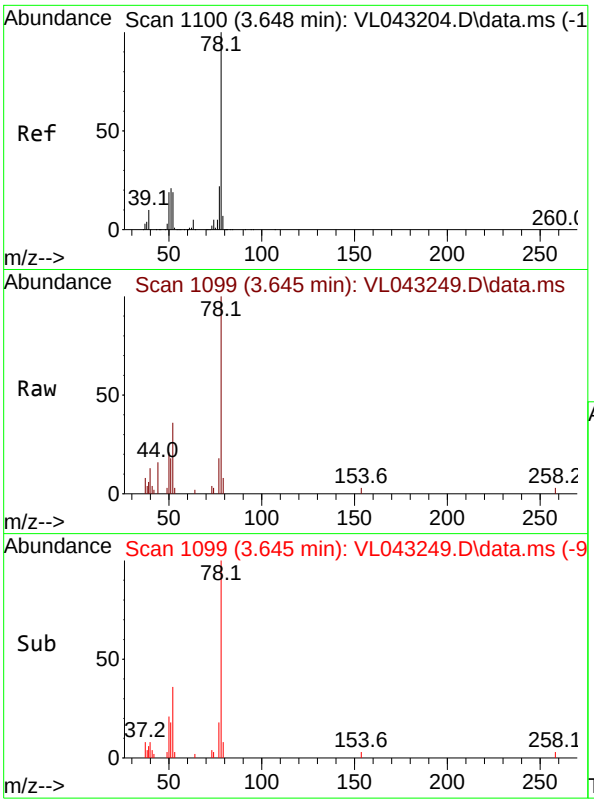


#34
2-Butanone
Concen: 0.242 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 43 Resp: 4730

Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.1	27.1



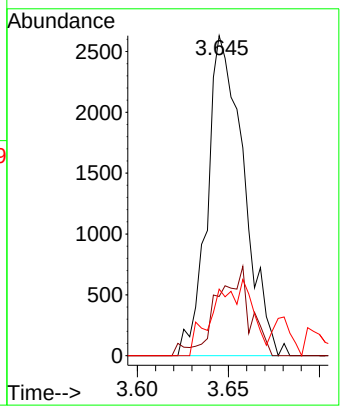


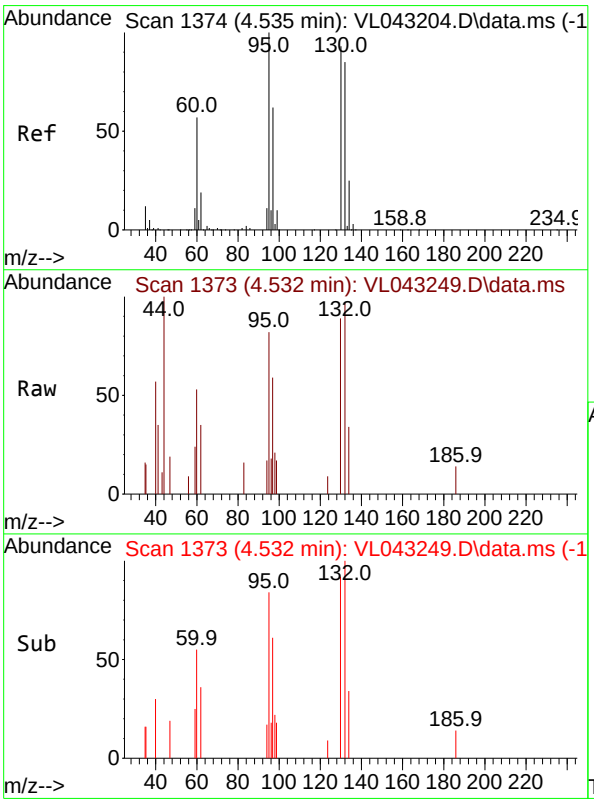
#36
Benzene
Concen: 0.137 ppbv
RT: 3.645 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 78 Resp: 3642

Ion	Ratio	Lower	Upper
78	100		
77	18.5	17.5	26.3
50	20.8	15.5	23.3

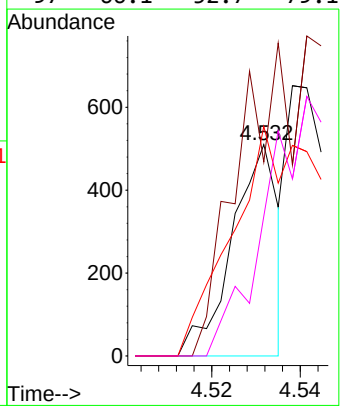


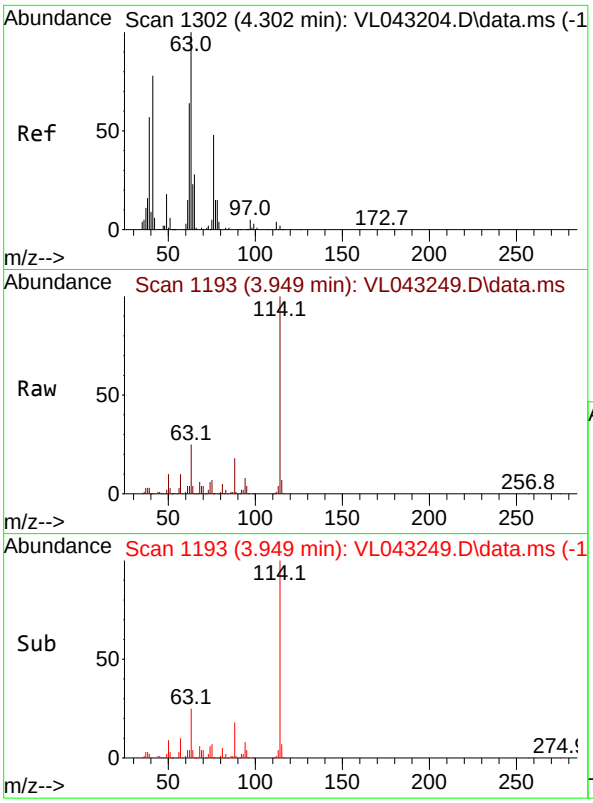


#38
Trichloroethene
Concen: 0.036 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. -0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion:130 Resp: 369

Ion	Ratio	Lower	Upper
130	100		
95	91.8	85.7	128.5
132	108.6	73.4	110.0
97	66.1	52.7	79.1



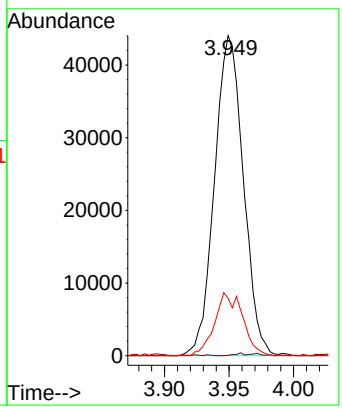


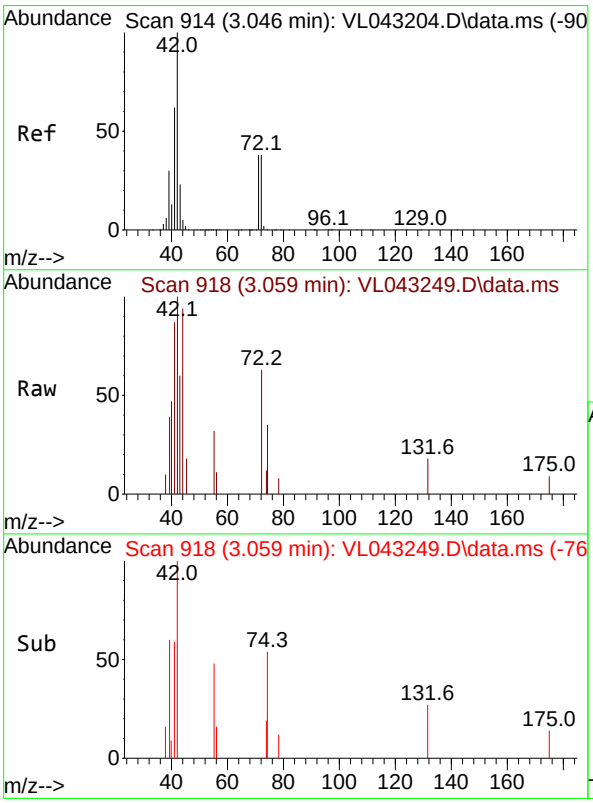
#39
1,2-Dichloropropane
Concen: 7.057 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.353 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 63 Resp: 68478

Ion	Ratio	Lower	Upper
63	100		
41	0.1	62.6	93.8#
62	17.9	51.0	76.6#

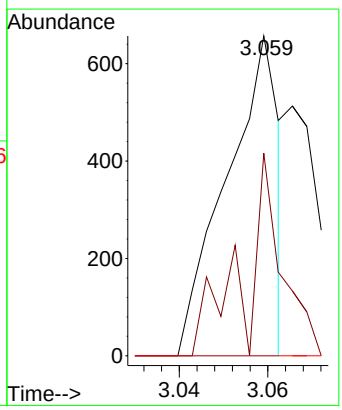


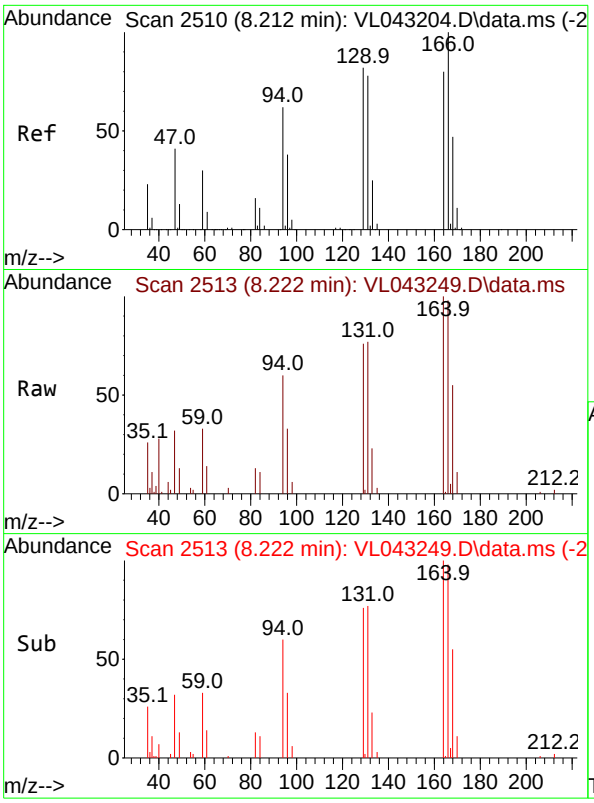


#41
Tetrahydrofuran
Concen: 0.050 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.013 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 42 Resp: 537

Ion	Ratio	Lower	Upper
42	100		
72	46.4	30.6	46.0#
71	0.0	30.5	45.7#



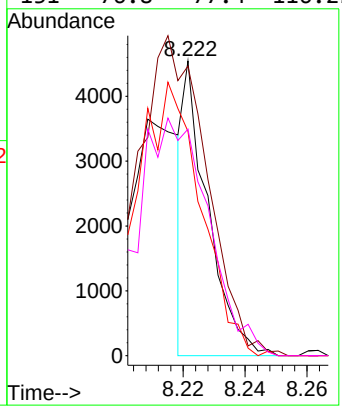


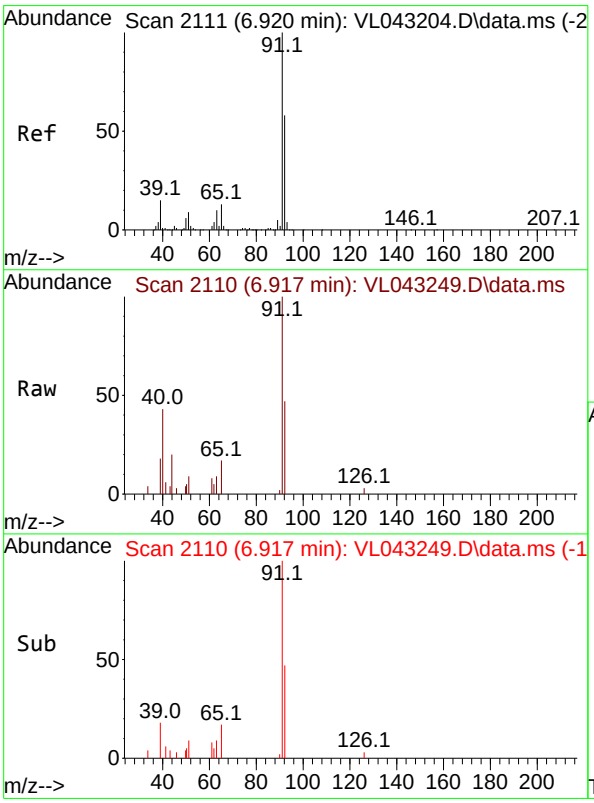
#52
Tetrachloroethene
Concen: 0.251 ppbv
RT: 8.222 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion:164 Resp: 2471

Ion	Ratio	Lower	Upper
164	100		
166	96.7	99.4	149.2#
129	78.2	81.8	122.8#
131	76.8	77.4	116.2#

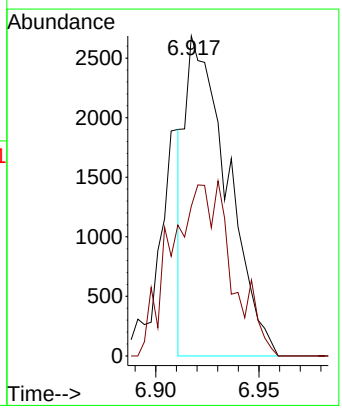


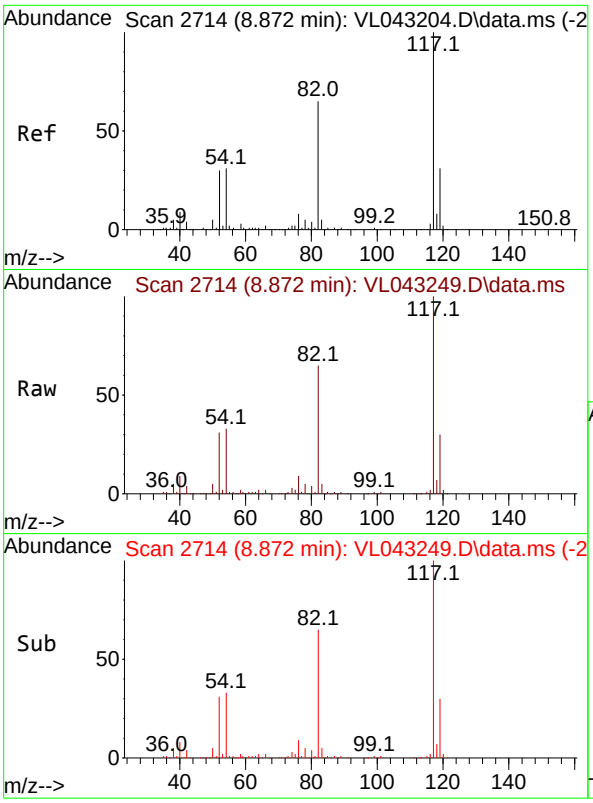


#53
Toluene
Concen: 0.122 ppbv
RT: 6.917 min Scan# 2110
Delta R.T. -0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 91 Resp: 3835

Ion	Ratio	Lower	Upper
91	100		
92	77.4	47.4	71.0#



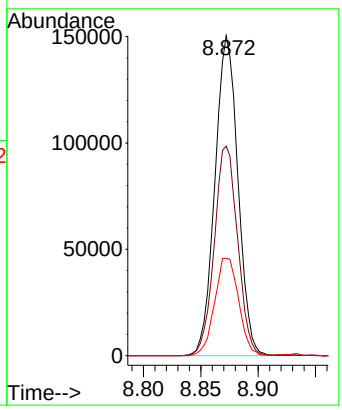


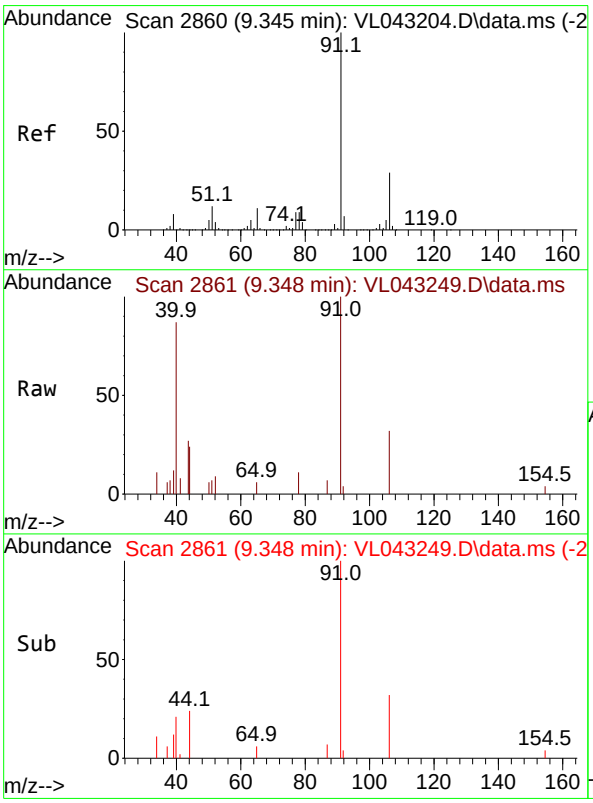
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion:117 Resp: 209824

Ion	Ratio	Lower	Upper
117	100		
82	66.7	56.1	84.1
119	31.9	25.0	37.6

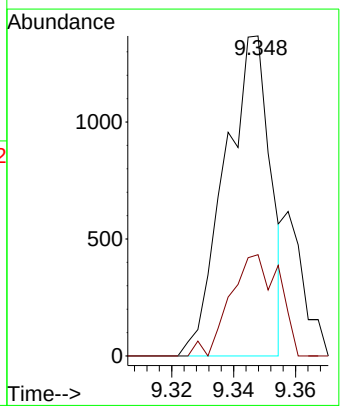


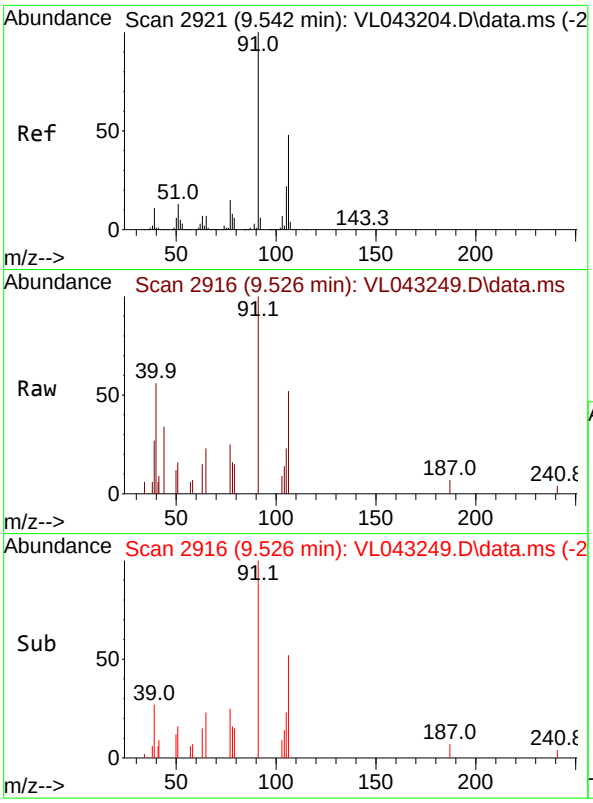


#58
Ethyl Benzene
Concen: 0.035 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 91 Resp: 1400

Ion	Ratio	Lower	Upper
91	100		
106	30.5	22.8	34.2



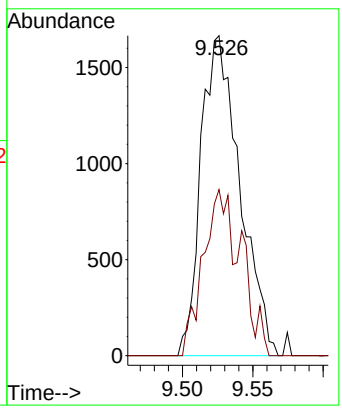


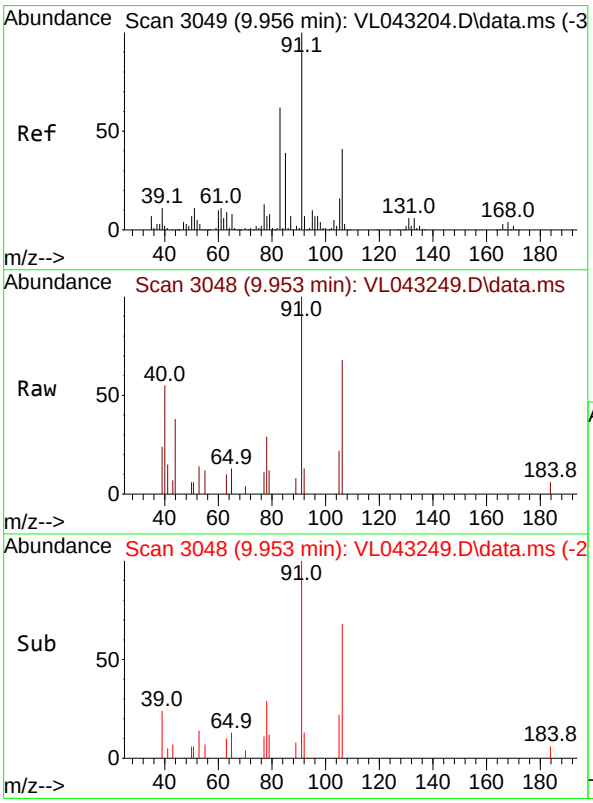
#59
m/p-Xylene
Concen: 0.099 ppbv
RT: 9.526 min Scan# 2
Delta R.T. -0.016 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 91 Resp: 3209

Ion	Ratio	Lower	Upper
91	100		
106	50.4	36.1	54.1

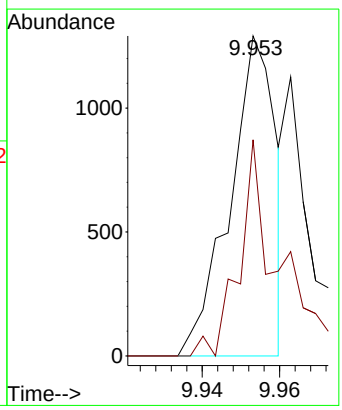


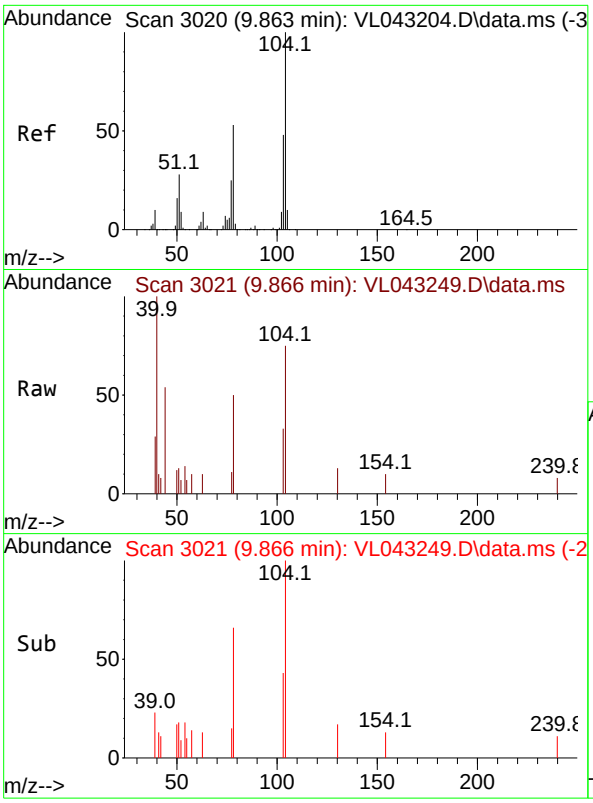


#60
o-Xylene
Concen: 0.033 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 91 Resp: 1059

Ion	Ratio	Lower	Upper
91	100		
106	57.0	20.9	62.8



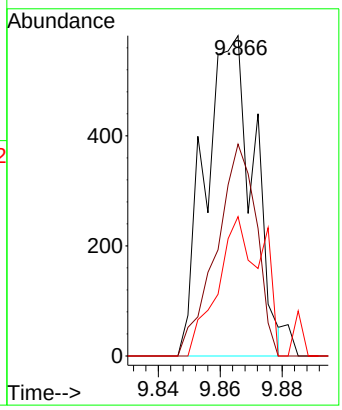


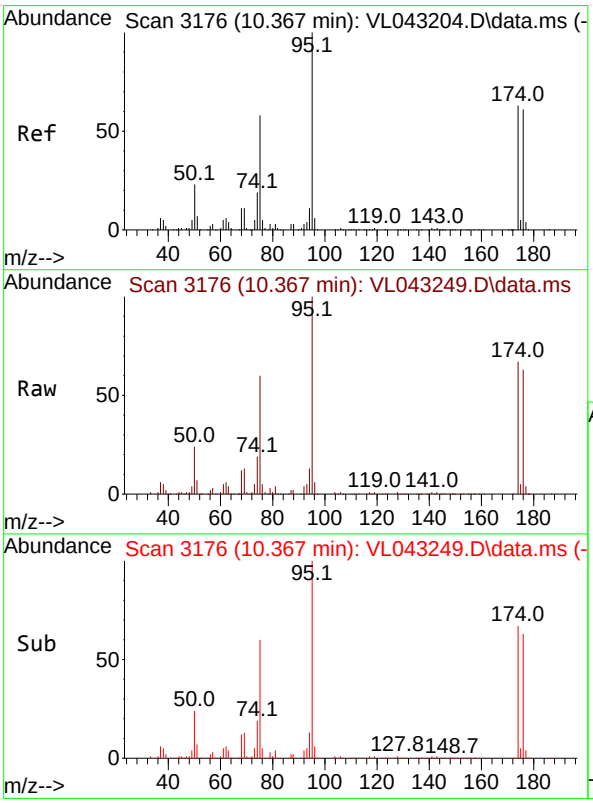
#61
Styrene
Concen: 0.045 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion:104 Resp: 633

Ion	Ratio	Lower	Upper
104	100		
78	54.8	42.1	63.1
103	42.2	37.2	55.8

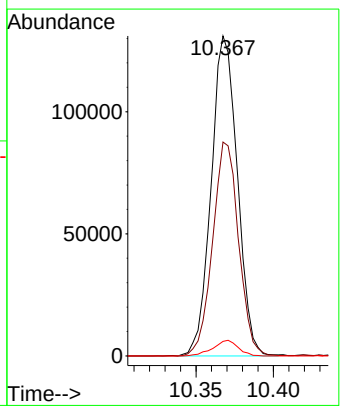


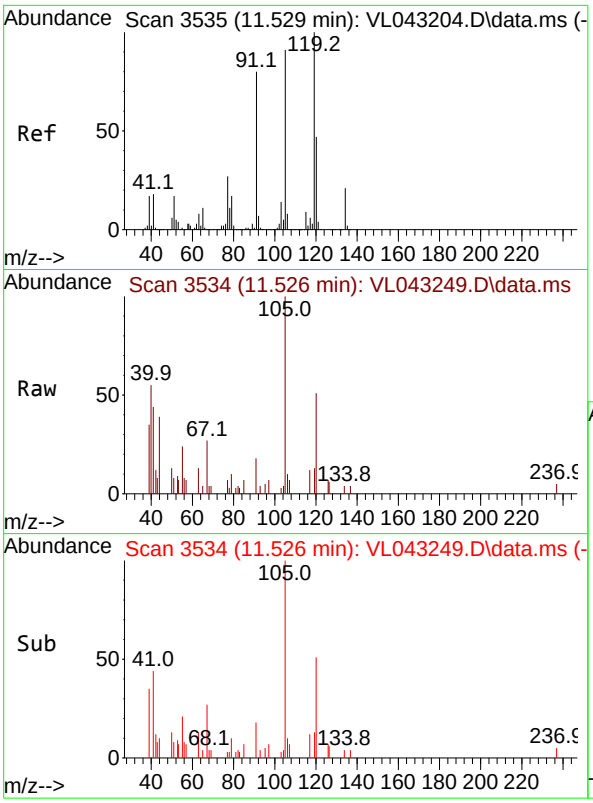


#68
1-Bromo-4-Fluorobenzene
Concen: 10.026 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 95 Resp: 154207

Ion	Ratio	Lower	Upper
95	100		
174	66.2	50.2	75.2
175	4.7	4.1	6.1



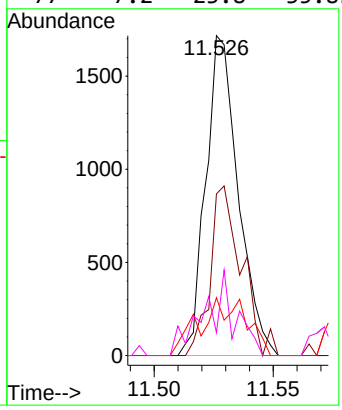


#74
1,2,4-Trimethylbenzene
Concen: 0.045 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion:105 Resp: 1628

Ion	Ratio	Lower	Upper
105	100		
120	50.6	41.7	62.5
91	18.1	70.0	105.0#
77	7.2	23.8	35.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043250.D
Acq On : 19 Nov 2025 21:33
Operator : SY/MD
Sample : Q3626-04DL 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Quant Time: Nov 20 00:11:45 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

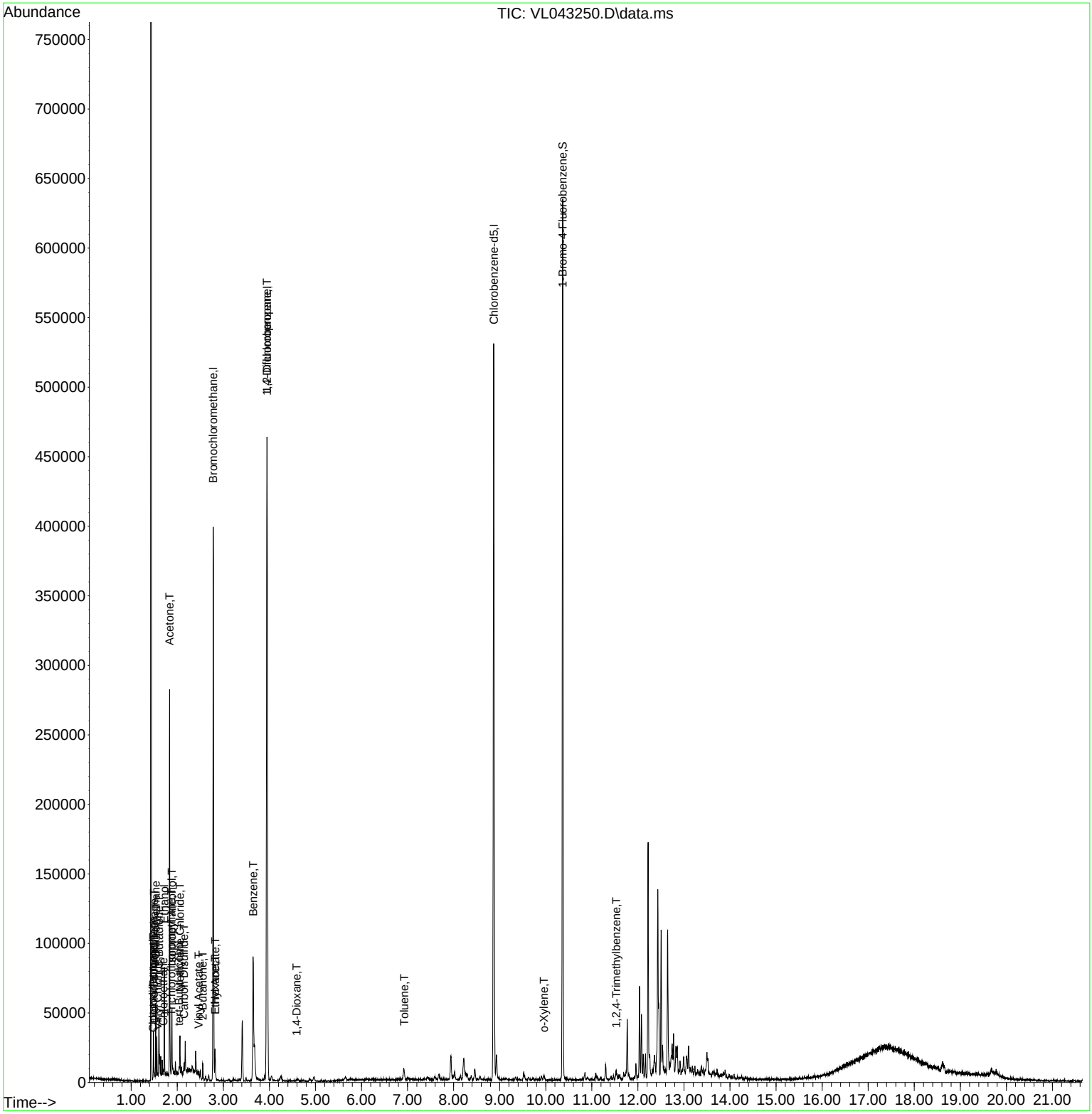
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	98441	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	273742	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	208879	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.368	95	151610	9.902	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	1486	0.107	ppbv		94
3) Chlorodifluoromethane	1.473	51	1320	0.097	ppbv		97
4) Chloromethane	1.532	50	14812	2.853	ppbv		90
5) Vinyl Chloride	1.577	62	716	0.126	ppbv		91
7) Chloroethane	1.700	64	1033	0.467	ppbv		89
9) Propene	1.483	41	4846	0.836	ppbv	#	1
11) Trichlorofluoromethane	1.875	101	937	0.070	ppbv		99
13) Ethanol	1.719	45	27356	13.417	ppbv		100
15) Acetone	1.833	43	118326	8.652	ppbv		100
16) 1,3-Butadiene	1.603	39	6947	1.139	ppbv	#	53
17) tert-Butyl alcohol	2.040	59	1346	0.075	ppbv	#	33
19) Isopropyl Alcohol	1.884	45	19406	2.511	ppbv	#	1
20) Methylene Chloride	2.059	84	4144	0.264	ppbv	#	86
23) Vinyl Acetate	2.464	43	560	0.034	ppbv	#	69
25) Ethyl Acetate	2.826	43	3607	0.122	ppbv	#	83
26) Hexane	2.820	57	4464	0.345	ppbv	#	39
27) Carbon Disulfide	2.147	76	3921	0.297	ppbv	#	1
34) 2-Butanone	2.554	43	7858	0.407	ppbv		98
36) Benzene	3.648	78	53179	2.029	ppbv		98
39) 1,2-Dichloropropane	3.946	63	69463	7.240	ppbv	#	24
40) 1,4-Dioxane	4.593	88	280	0.065	ppbv	#	57
53) Toluene	6.927	91	3064	0.099	ppbv	#	15
60) o-Xylene	9.960	91	1226	0.038	ppbv		95
74) 1,2,4-Trimethylbenzene	11.530	105	1433	0.040	ppbv	#	56

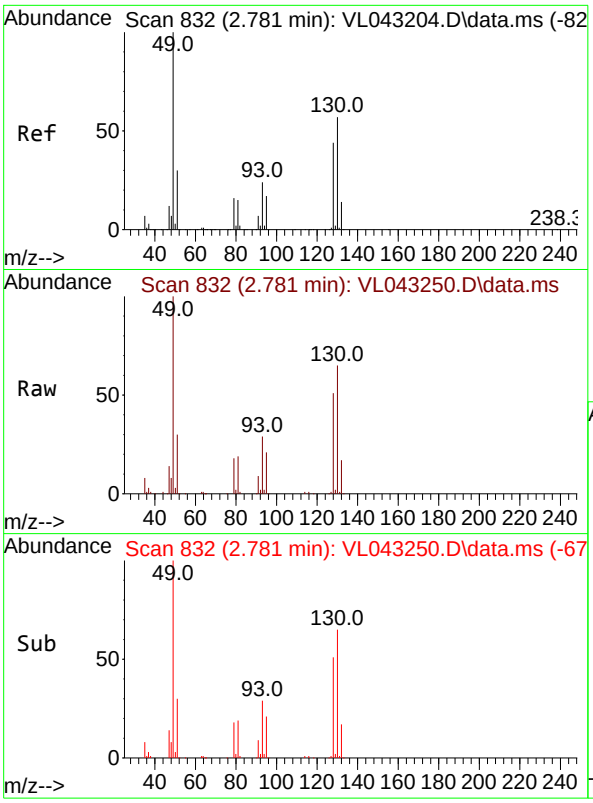
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043250.D
Acq On : 19 Nov 2025 21:33
Operator : SY/MD
Sample : Q3626-04DL 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Quant Time: Nov 20 00:11:45 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



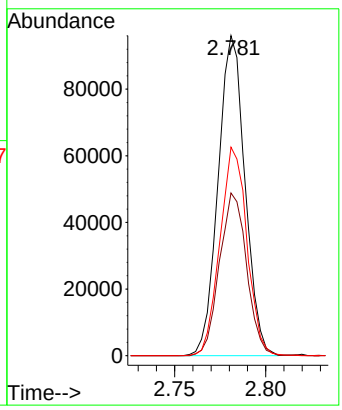


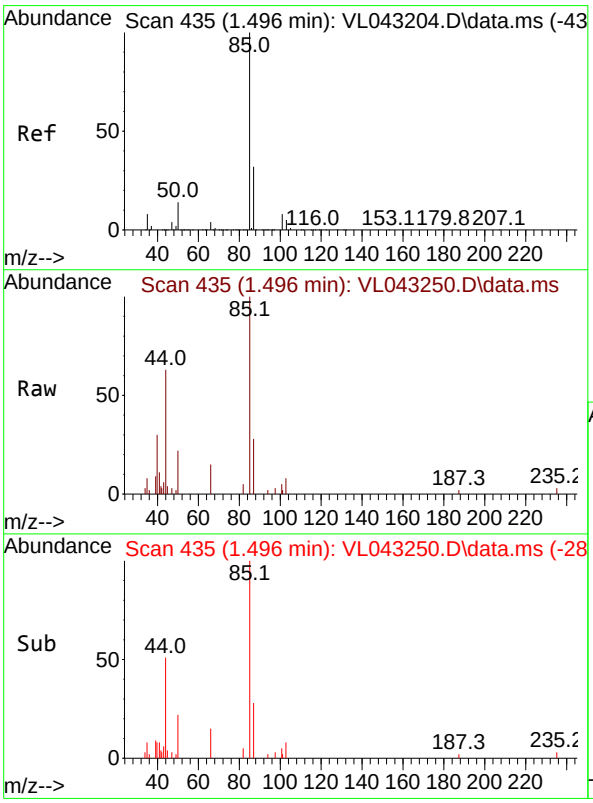
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion: 49 Resp: 98441

Ion	Ratio	Lower	Upper
49	100		
128	51.5	23.0	69.0
130	65.5	29.9	89.7

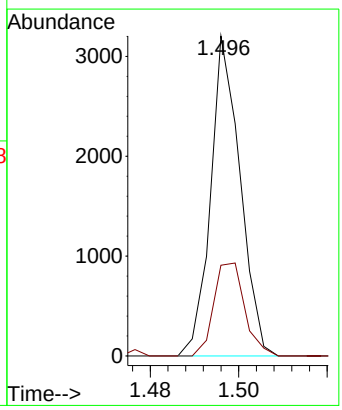


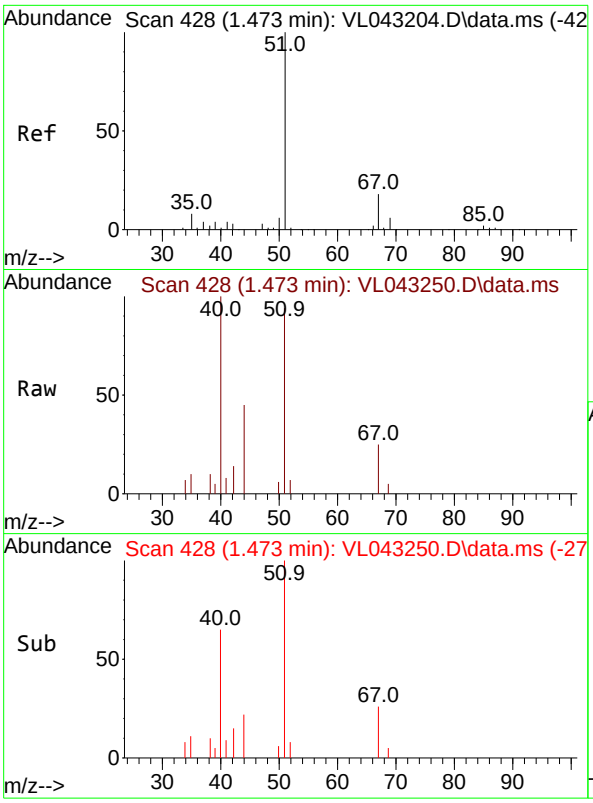


#2
Dichlorodifluoromethane
Concen: 0.107 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 85 Resp: 1486

Ion	Ratio	Lower	Upper
85	100		
87	28.3	25.4	38.2



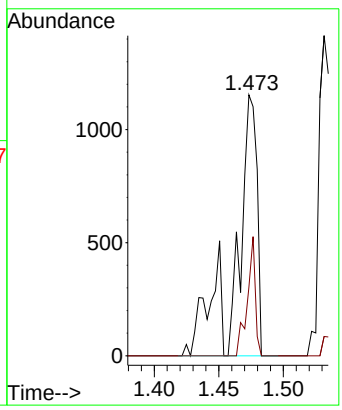


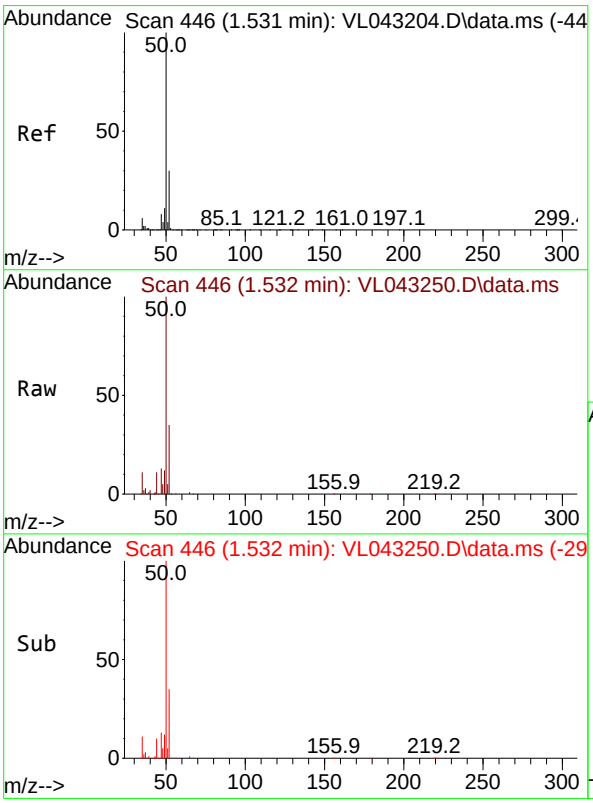
#3
Chlorodifluoromethane
Concen: 0.097 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion: 51 Resp: 1320

Ion	Ratio	Lower	Upper
51	100		
67	17.4	14.9	22.3

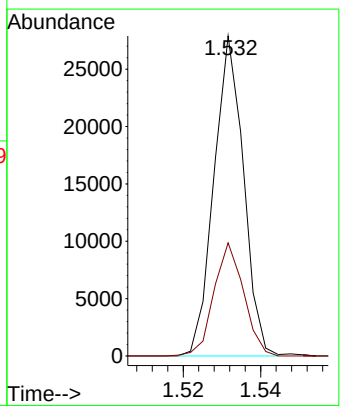


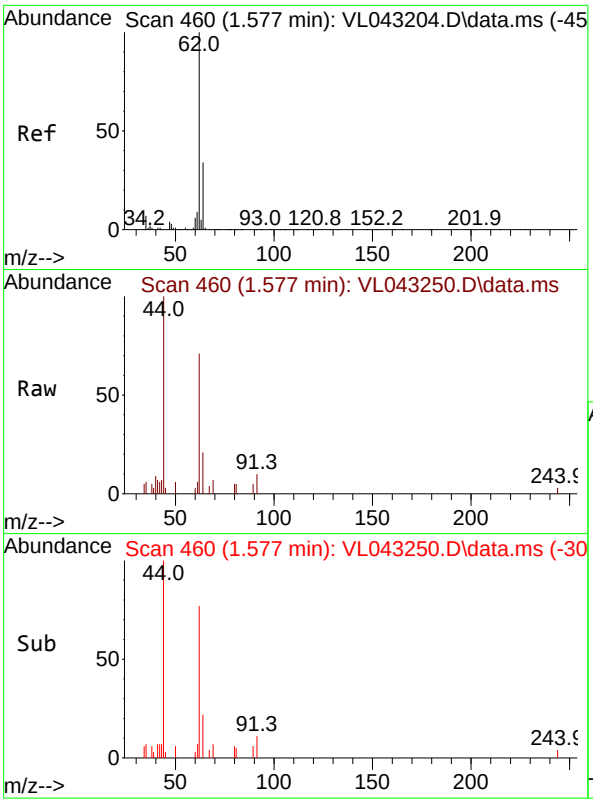


#4
Chloromethane
Concen: 2.853 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 50 Resp: 14812

Ion	Ratio	Lower	Upper
50	100		
52	35.3	24.1	36.1



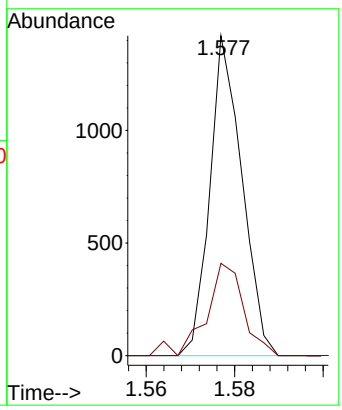


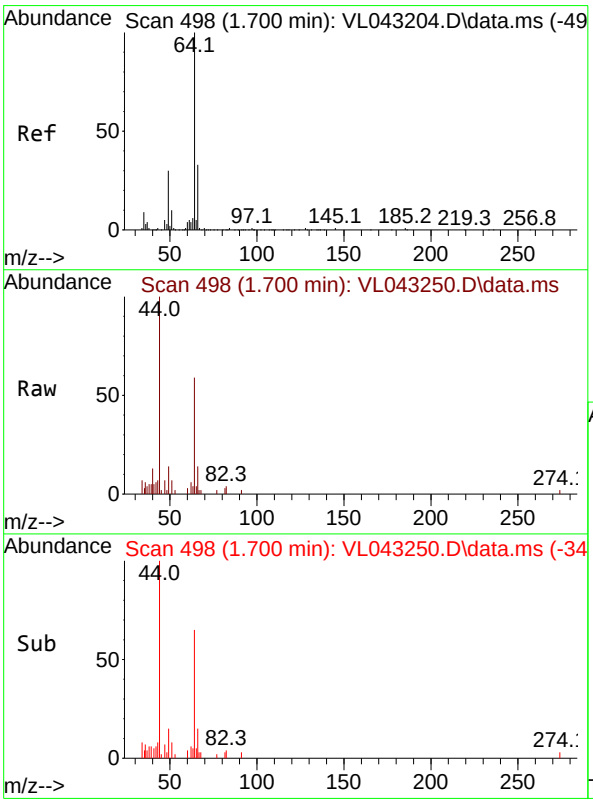
#5
Vinyl Chloride
Concen: 0.126 ppbv
RT: 1.577 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion: 62 Resp: 716

Ion	Ratio	Lower	Upper
62	100		
64	28.9	27.3	40.9

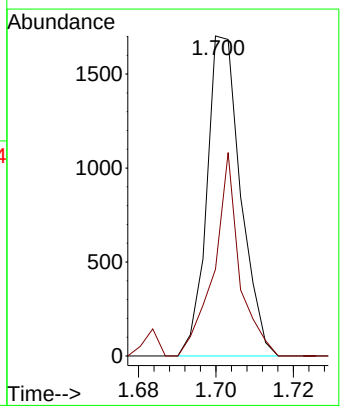


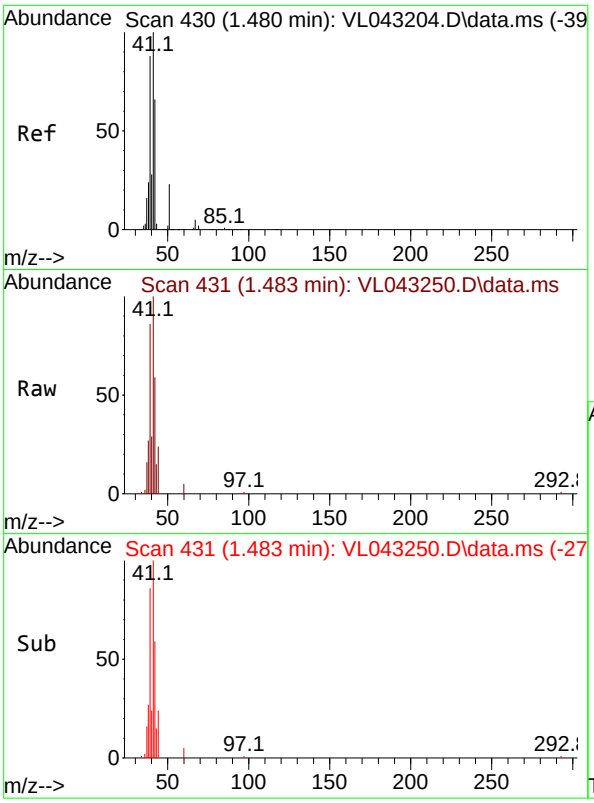


#7
Chloroethane
Concen: 0.467 ppbv
RT: 1.700 min Scan# 498
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 64 Resp: 1033

Ion	Ratio	Lower	Upper
64	100		
66	27.1	26.8	40.2



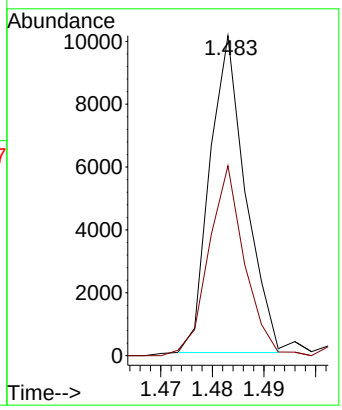


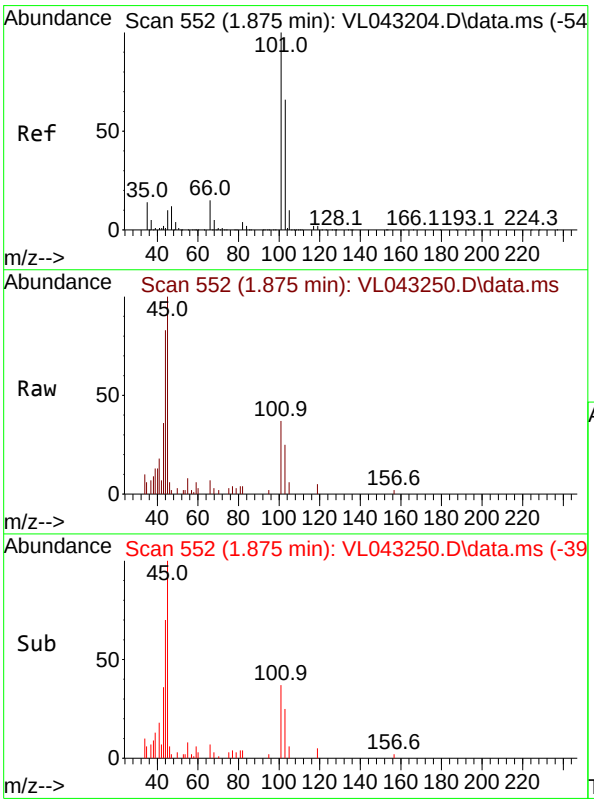
#9
Propene
Concen: 0.836 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion: 41 Resp: 4846

Ion	Ratio	Lower	Upper
41	100		
42	63.9	3.7	5.5#

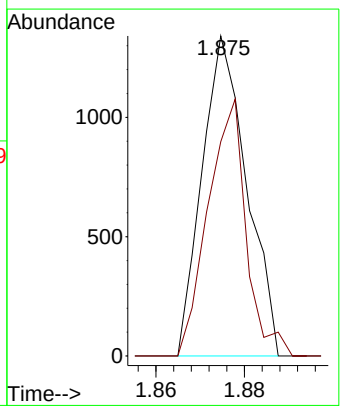


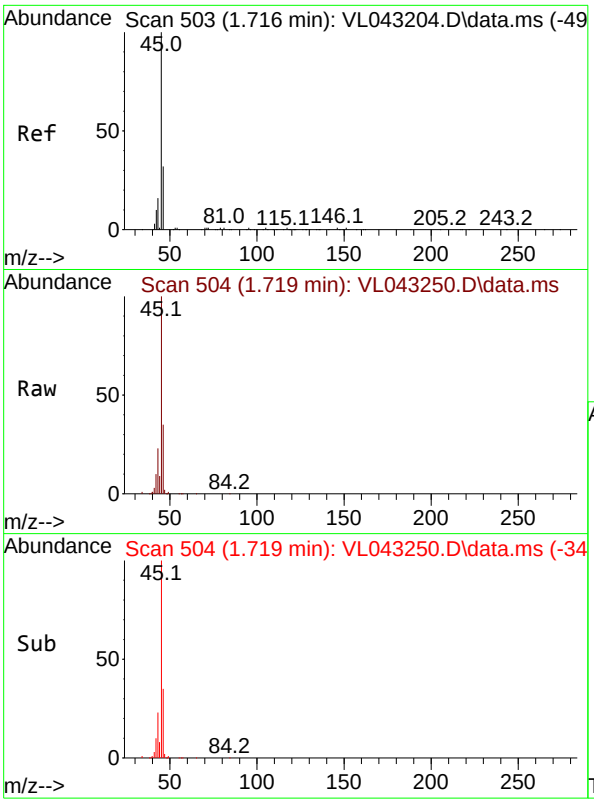


#11
Trichlorofluoromethane
Concen: 0.070 ppbv
RT: 1.875 min Scan# 552
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion:101 Resp: 937

Ion	Ratio	Lower	Upper
101	100		
103	67.0	52.6	79.0



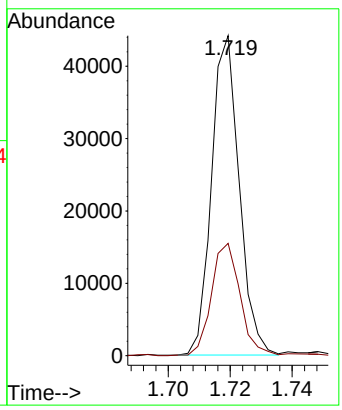


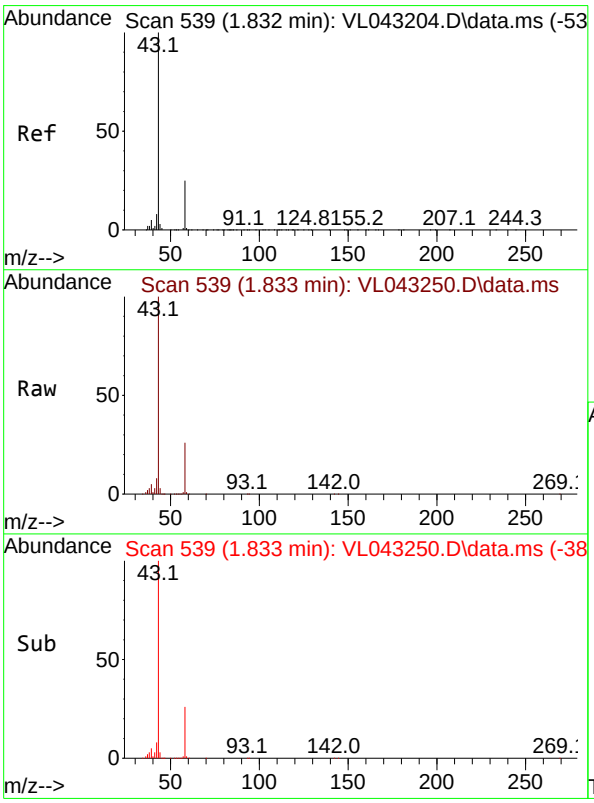
#13
Ethanol
Concen: 13.417 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion: 45 Resp: 27356

Ion	Ratio	Lower	Upper
45	100		
46	37.6	15.0	59.8

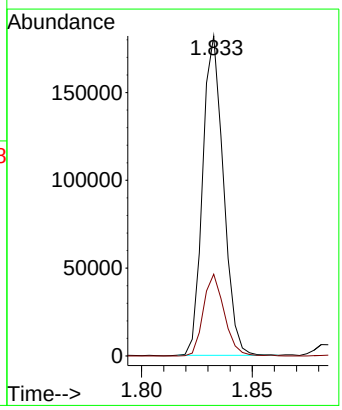


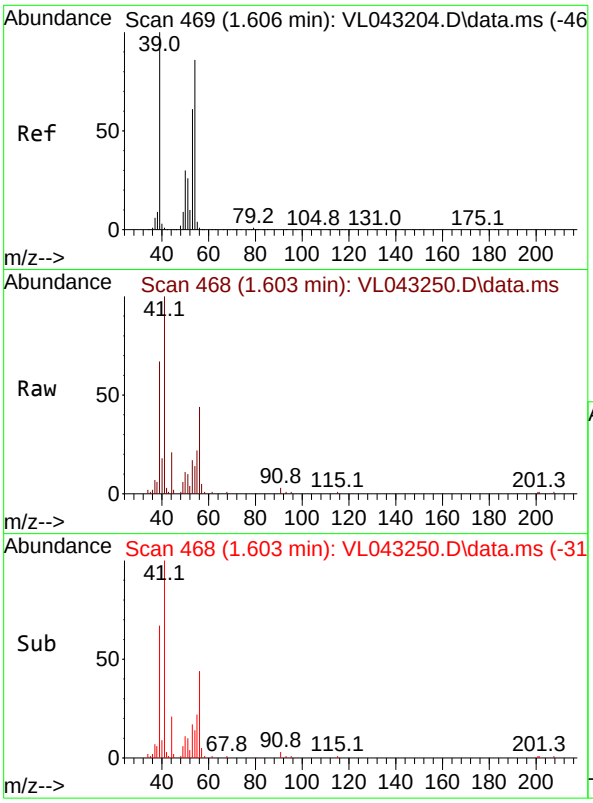


#15
Acetone
Concen: 8.652 ppbv
RT: 1.833 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 43 Resp: 118326

Ion	Ratio	Lower	Upper
43	100		
58	25.8	20.7	31.1



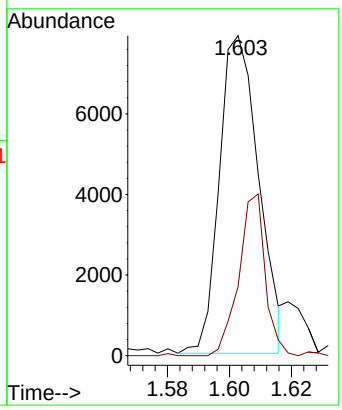


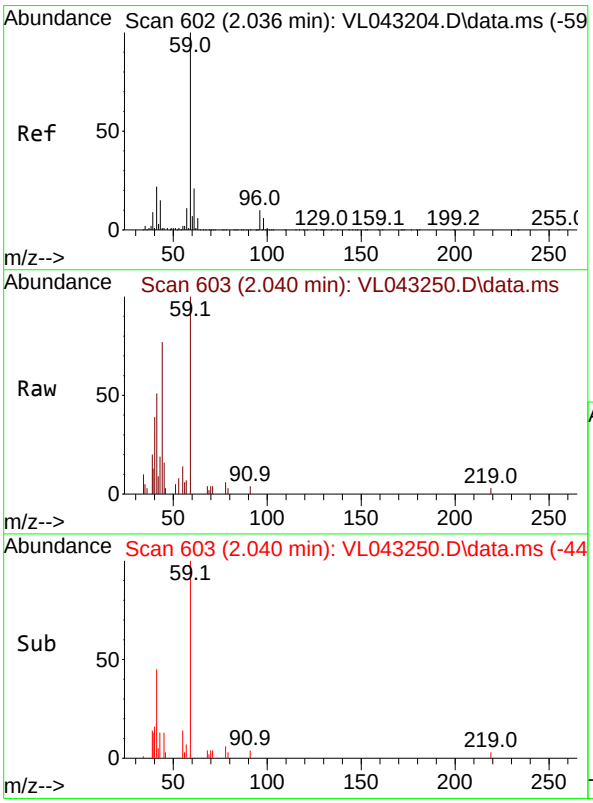
#16
1,3-Butadiene
Concen: 1.139 ppbv
RT: 1.603 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion: 39 Resp: 6947

Ion	Ratio	Lower	Upper
39	100		
54	34.8	59.4	89.2#

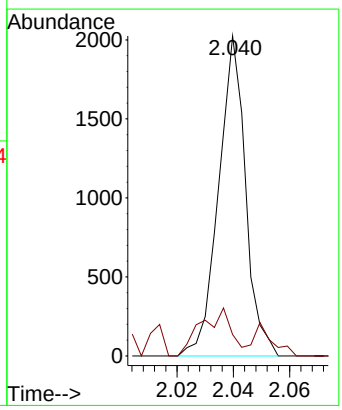


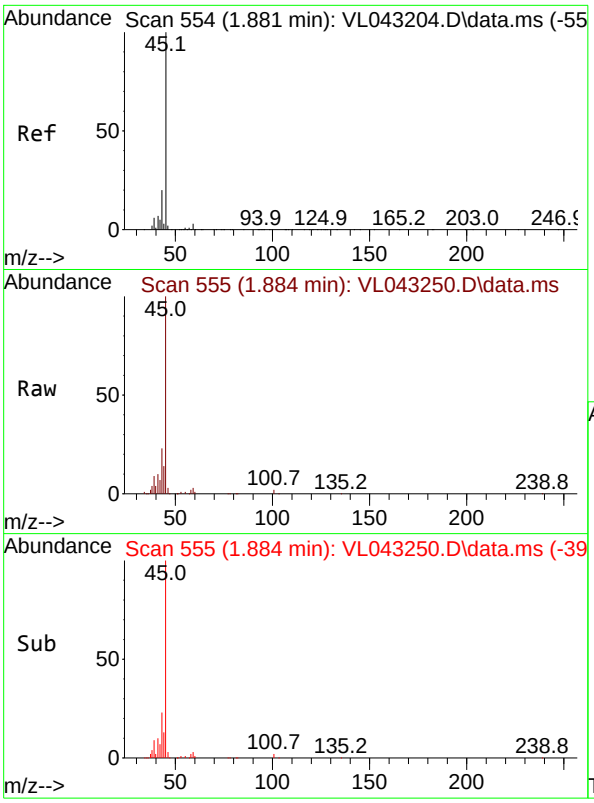


#17
tert-Butyl alcohol
Concen: 0.075 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 59 Resp: 1346

Ion	Ratio	Lower	Upper
59	100		
57	36.6	9.0	13.4#



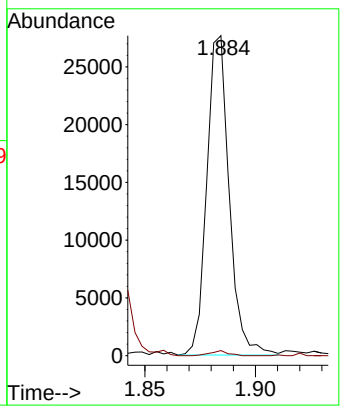


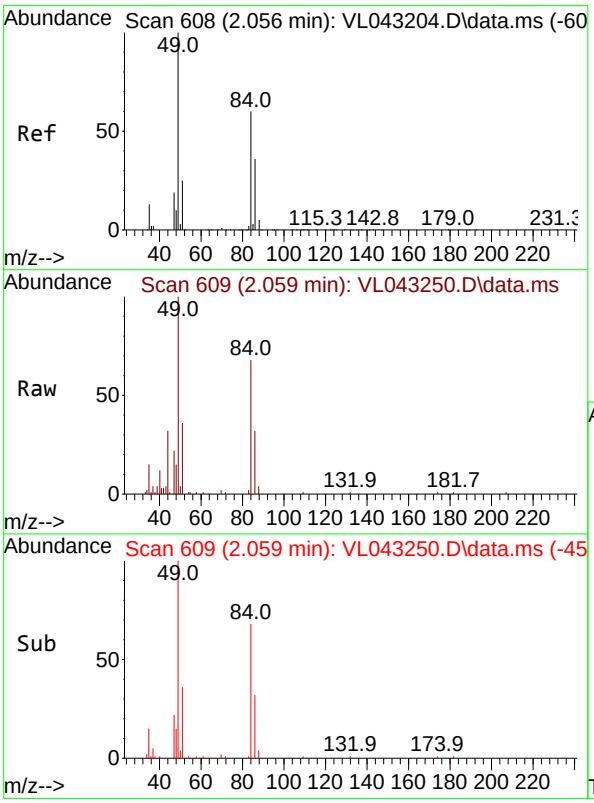
#19
Isopropyl Alcohol
Concen: 2.511 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion: 45 Resp: 19406

Ion	Ratio	Lower	Upper
45	100		
58	157.1	31.3	46.9#

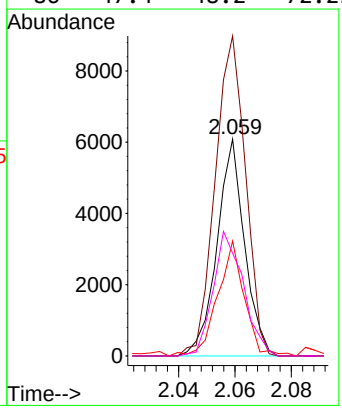


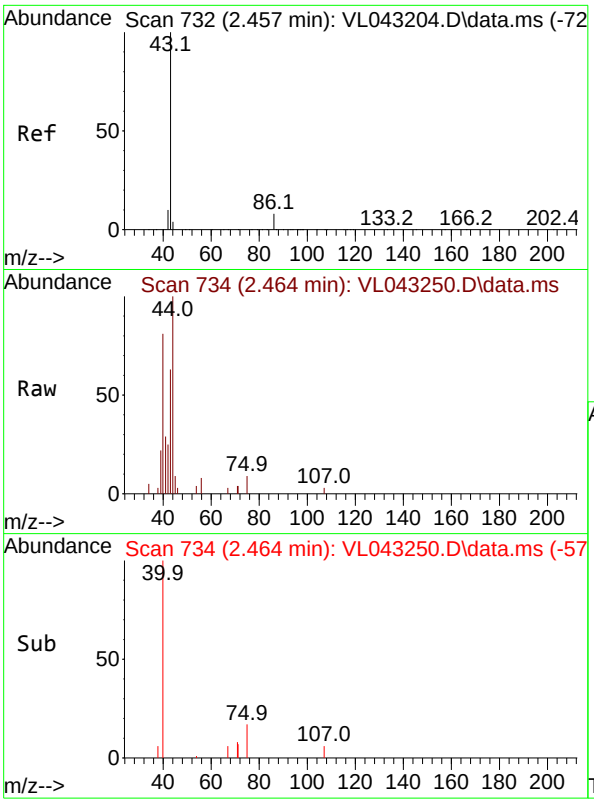


#20
Methylene Chloride
Concen: 0.264 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 84 Resp: 4144

Ion	Ratio	Lower	Upper
84	100		
49	147.6	132.9	199.3
51	51.9	34.8	52.2
86	47.4	48.2	72.2#



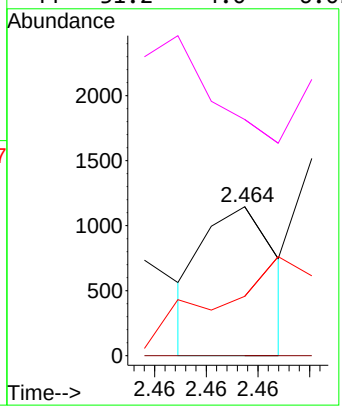


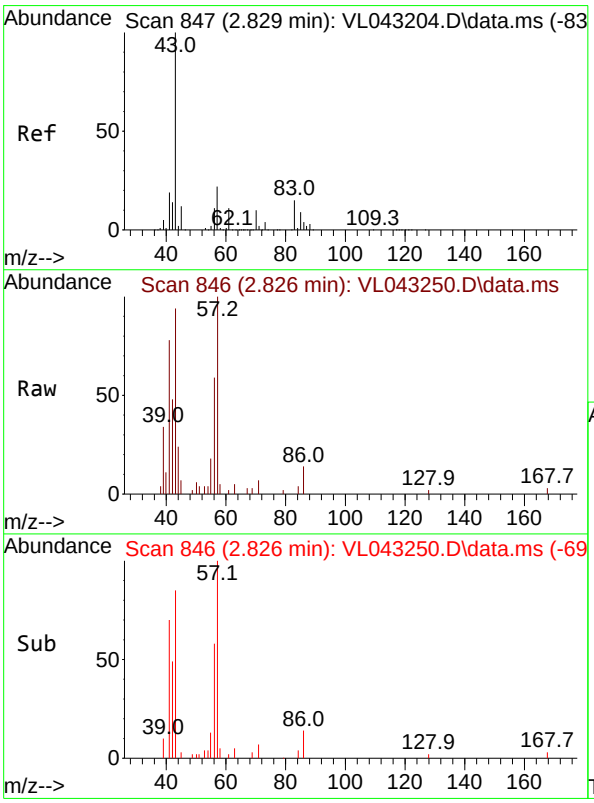
#23
Vinyl Acetate
Concen: 0.034 ppbv
RT: 2.464 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion: 43 Resp: 560

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.2#
42	4.5	8.0	12.0#
44	31.2	4.0	6.0#

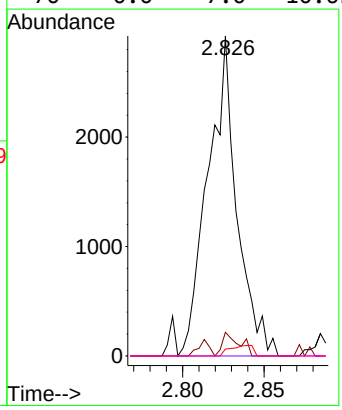


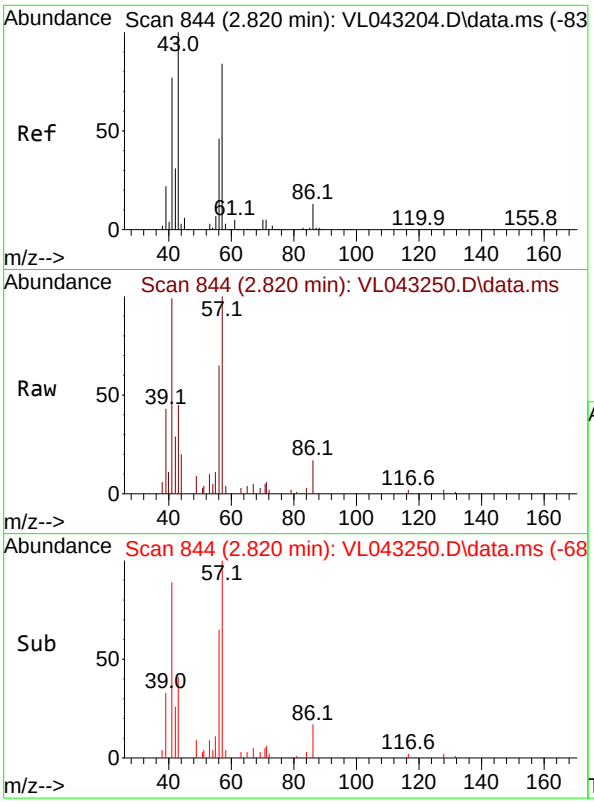


#25
Ethyl Acetate
Concen: 0.122 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 43 Resp: 3607

Ion	Ratio	Lower	Upper
43	100		
45	6.2	8.1	12.1#
61	2.6	7.0	10.4#
70	0.0	7.0	10.6#



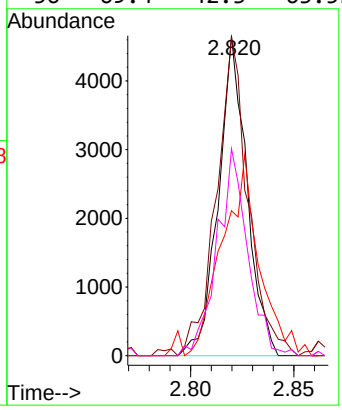


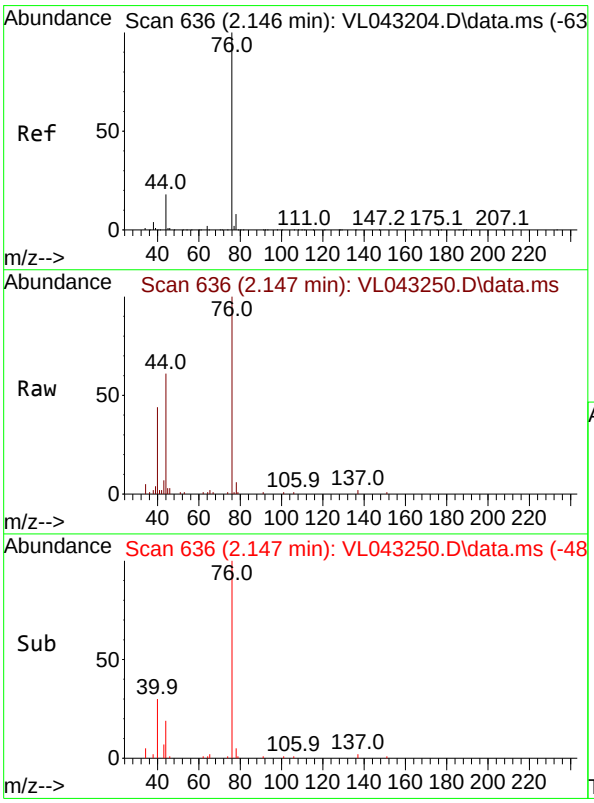
#26
Hexane
Concen: 0.345 ppbv
RT: 2.820 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion: 57 Resp: 4464

Ion	Ratio	Lower	Upper
57	100		
41	112.3	74.6	111.8#
43	82.8	179.0	268.4#
56	69.4	42.3	63.5#

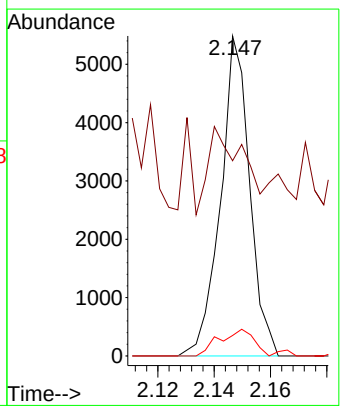


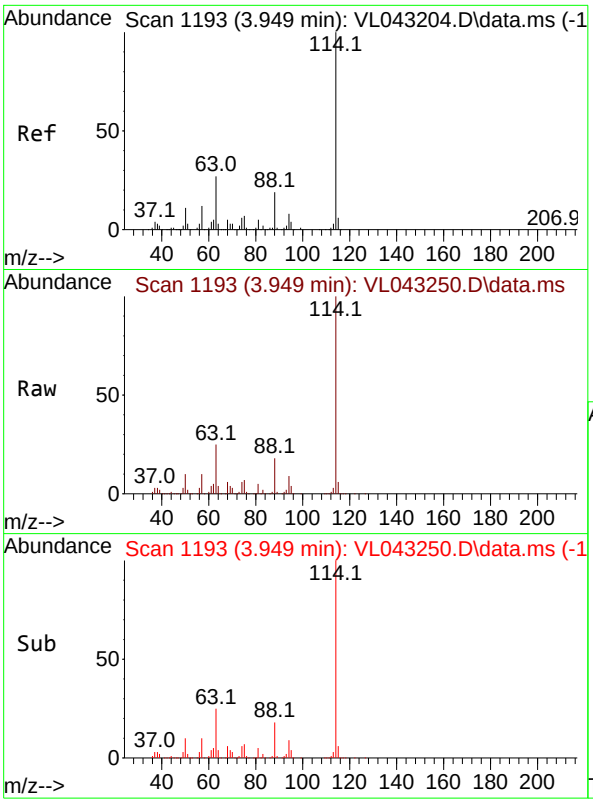


#27
Carbon Disulfide
Concen: 0.297 ppbv
RT: 2.147 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 76 Resp: 3921

Ion	Ratio	Lower	Upper
76	100		
44	251.3	16.1	24.1#
78	10.7	9.6	14.4



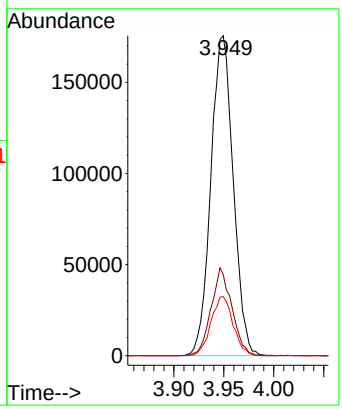


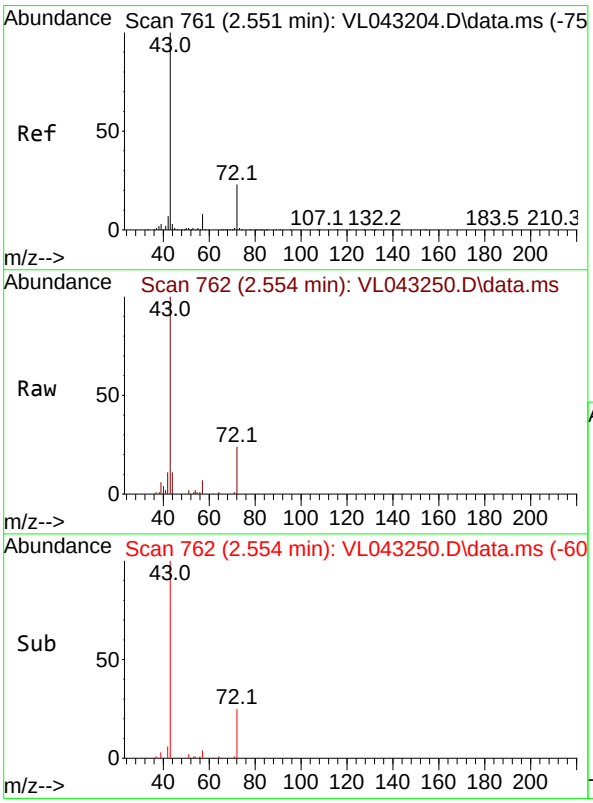
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion:114 Resp: 273742

Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.0	31.6
88	18.2	14.9	22.3

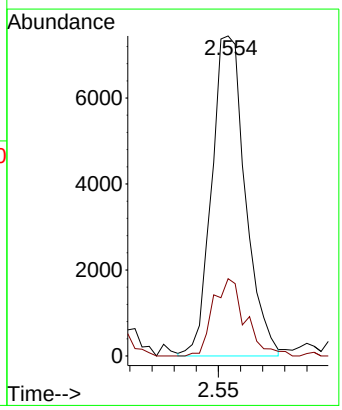


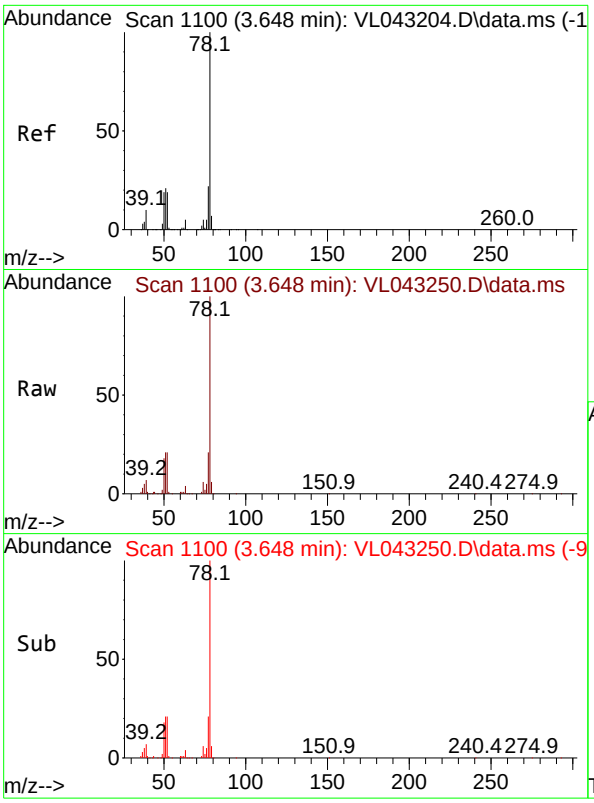


#34
2-Butanone
Concen: 0.407 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 43 Resp: 7858

Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.1	27.1



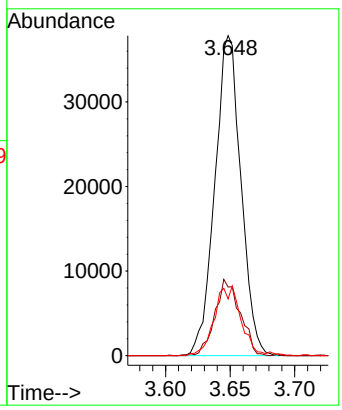


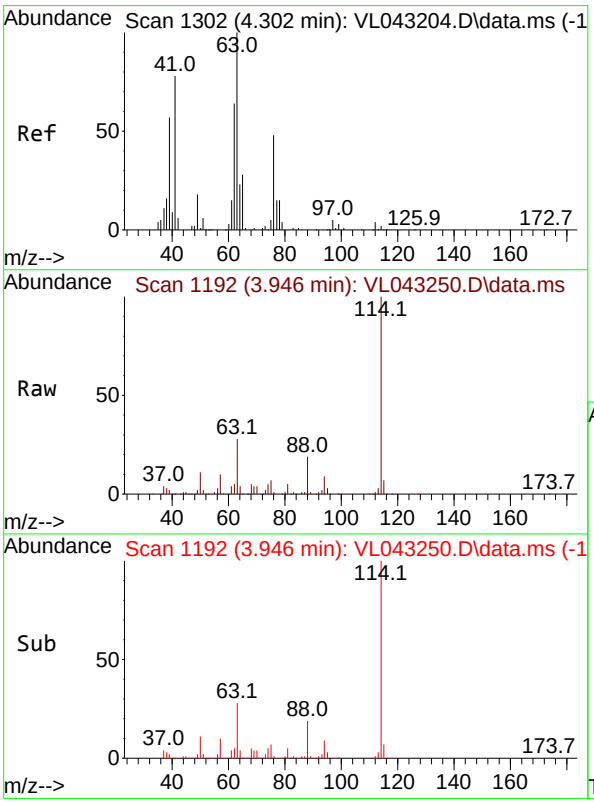
#36
Benzene
Concen: 2.029 ppbv
RT: 3.648 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion: 78 Resp: 53179

Ion	Ratio	Lower	Upper
78	100		
77	21.5	17.5	26.3
50	17.8	15.5	23.3

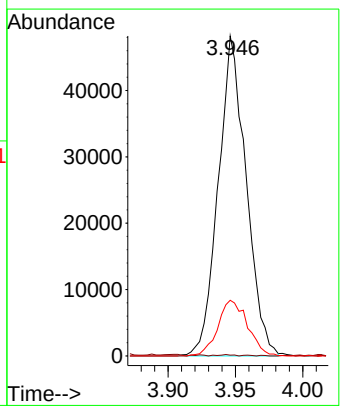


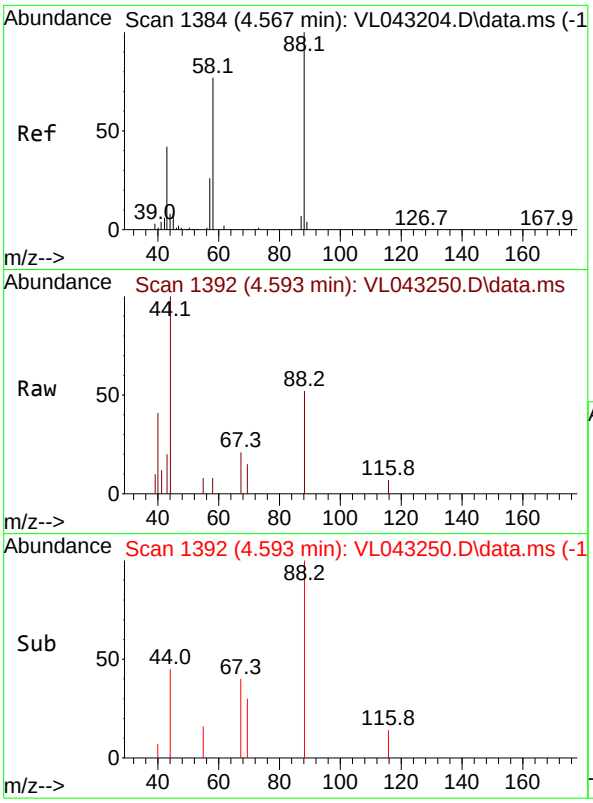


#39
1,2-Dichloropropane
Concen: 7.240 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.356 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 63 Resp: 69463

Ion	Ratio	Lower	Upper
63	100		
41	0.3	62.6	93.8#
62	17.4	51.0	76.6#



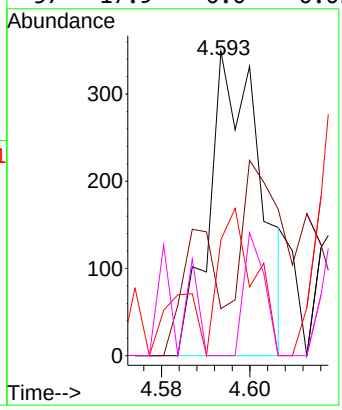


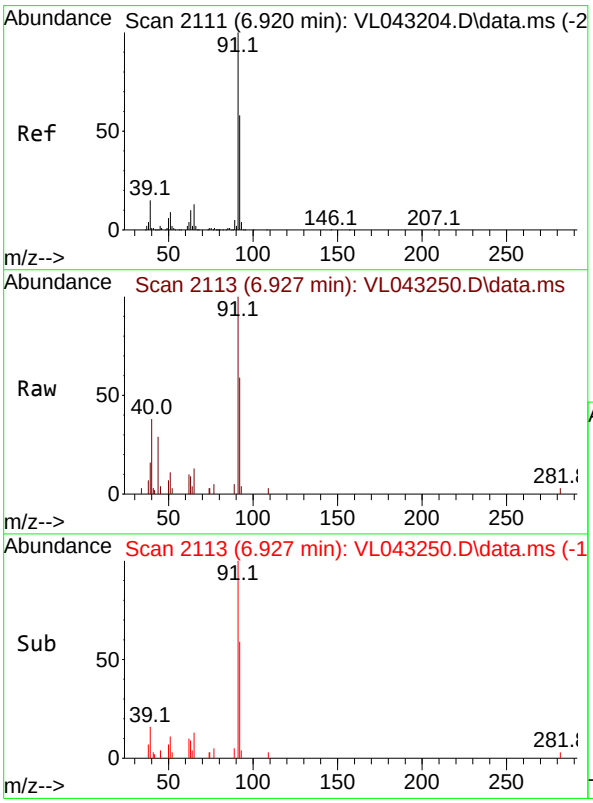
#40
1,4-Dioxane
Concen: 0.065 ppbv
RT: 4.593 min Scan# 1
Delta R.T. 0.026 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion: 88 Resp: 280

Ion	Ratio	Lower	Upper
88	100		
58	115.7	63.0	94.6#
43	68.2	32.5	48.7#
57	17.9	0.0	0.0#

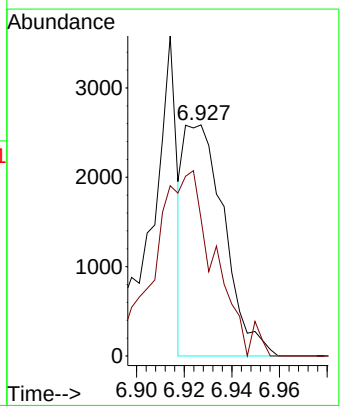


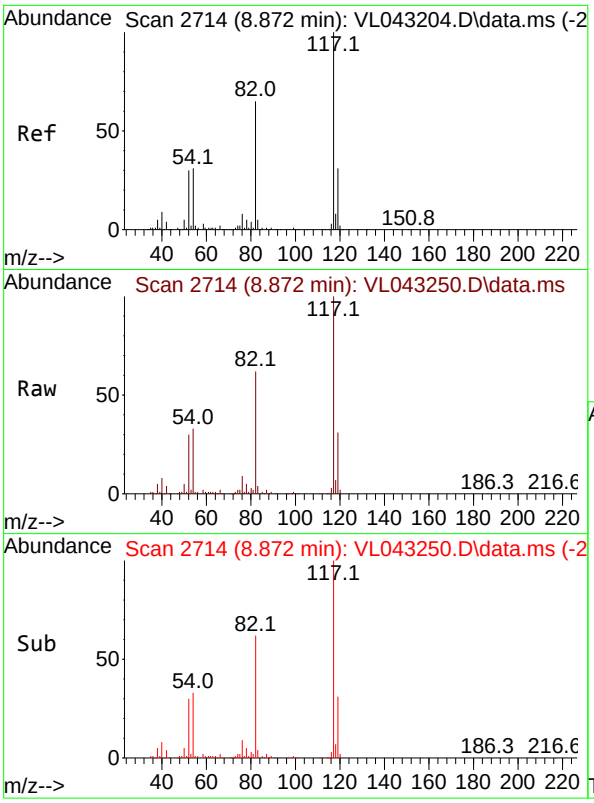


#53
Toluene
Concen: 0.099 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.007 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 91 Resp: 3064

Ion	Ratio	Lower	Upper
91	100		
92	122.7	47.4	71.0#



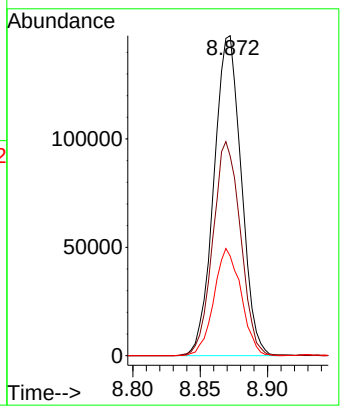


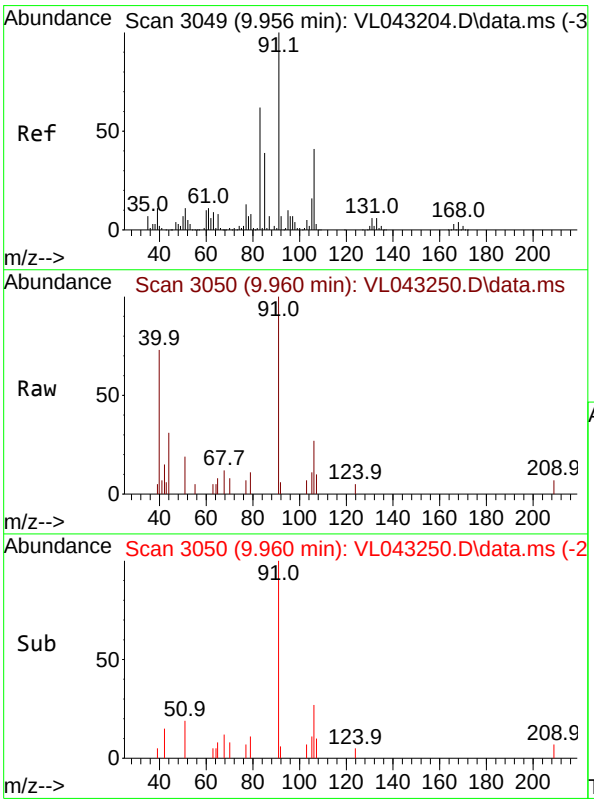
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion:117 Resp: 208879

Ion	Ratio	Lower	Upper
117	100		
82	67.6	56.1	84.1
119	33.2	25.0	37.6

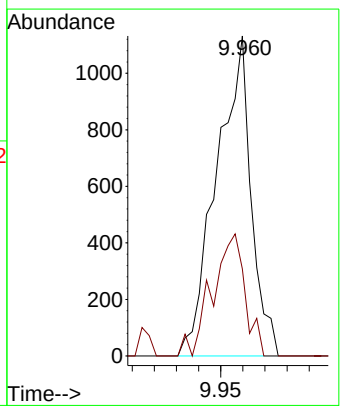


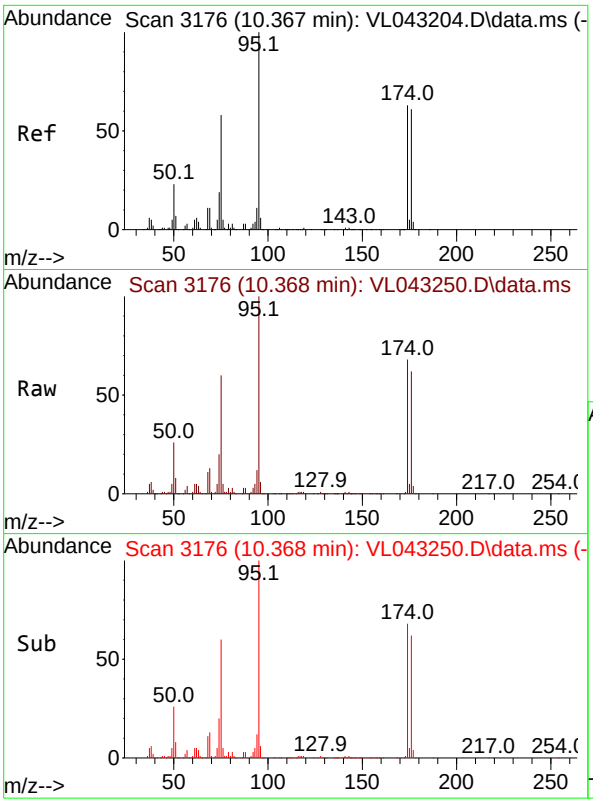


#60
o-Xylene
Concen: 0.038 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 91 Resp: 1226

Ion	Ratio	Lower	Upper
91	100		
106	39.0	20.9	62.8



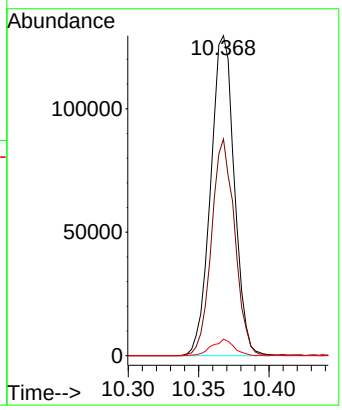


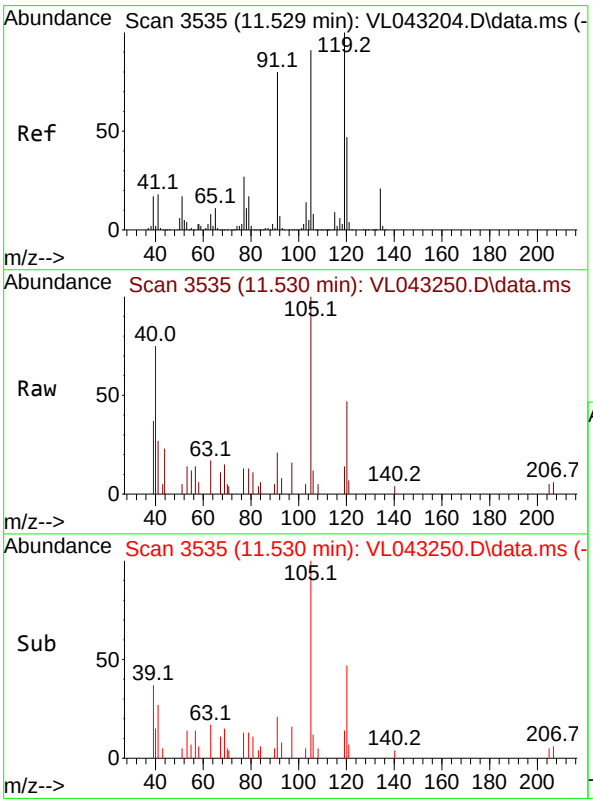
#68
1-Bromo-4-Fluorobenzene
Concen: 9.902 ppbv
RT: 10.368 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

Tgt Ion: 95 Resp: 151610

Ion	Ratio	Lower	Upper
95	100		
174	66.6	50.2	75.2
175	4.9	4.1	6.1

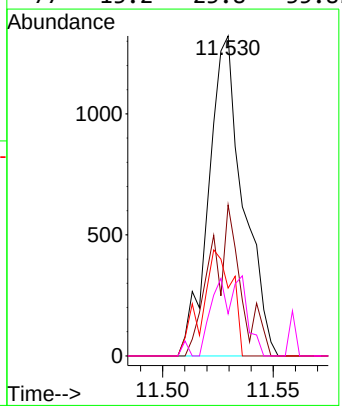




#74
1,2,4-Trimethylbenzene
Concen: 0.040 ppbv
RT: 11.530 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion:105 Resp: 1433

Ion	Ratio	Lower	Upper
105	100		
120	47.2	41.7	62.5
91	21.2	70.0	105.0#
77	13.2	23.8	35.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043251.D
Acq On : 19 Nov 2025 22:07
Operator : SY/MD
Sample : Q3626-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Quant Time: Nov 20 00:12:17 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

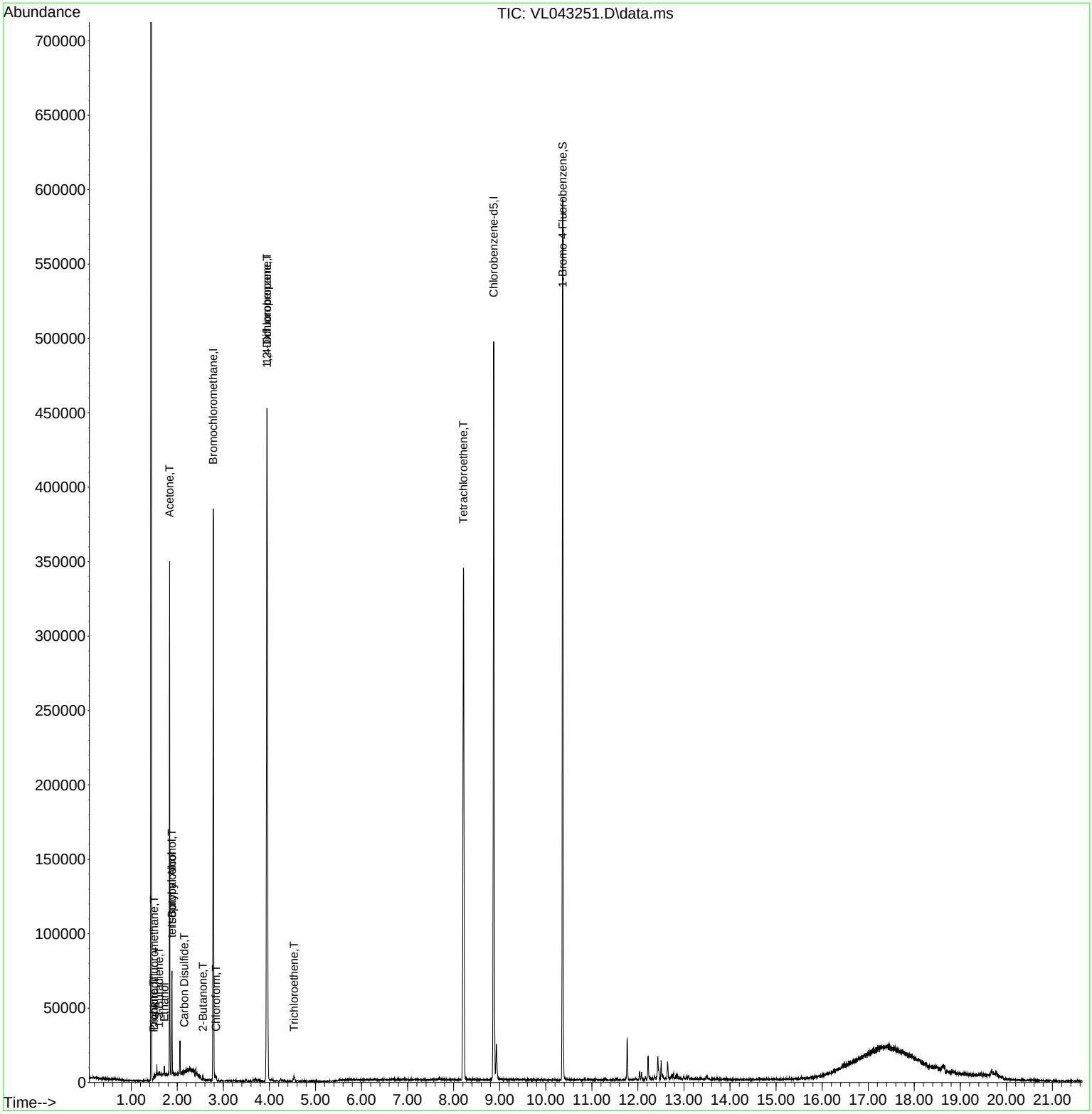
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	98540	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	260350	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	200769	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	138896	9.438	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 94.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	452	0.033	ppbv #	67
9) Propene	1.486	41	214	0.037	ppbv #	86
13) Ethanol	1.719	45	2156	1.056	ppbv	92
15) Acetone	1.832	43	143219	10.461	ppbv	98
16) 1,3-Butadiene	1.602	39	519	0.085	ppbv #	20
17) tert-Butyl alcohol	1.881	59	968	0.054	ppbv	96
19) Isopropyl Alcohol	1.884	45	29365	3.796	ppbv #	1
20) Methylene Chloride	2.059	84	2990	Below Cal		94
27) Carbon Disulfide	2.149	76	496	0.038	ppbv #	1
29) Chloroform	2.839	83	936	0.051	ppbv	84
34) 2-Butanone	2.557	43	1772	0.096	ppbv	97
38) Trichloroethene	4.532	130	623	0.064	ppbv #	60
39) 1,2-Dichloropropane	3.949	63	66492	7.286	ppbv #	23
52) Tetrachloroethene	8.212	164	61105	6.588	ppbv	97

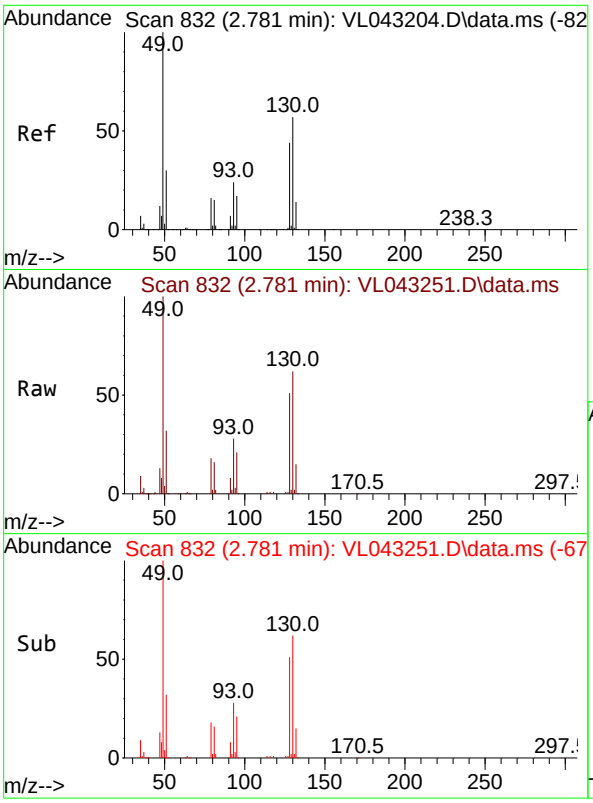
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043251.D
Acq On : 19 Nov 2025 22:07
Operator : SY/MD
Sample : Q3626-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Quant Time: Nov 20 00:12:17 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



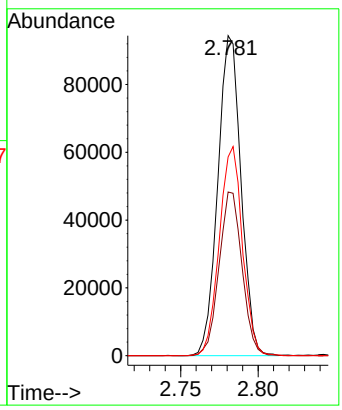


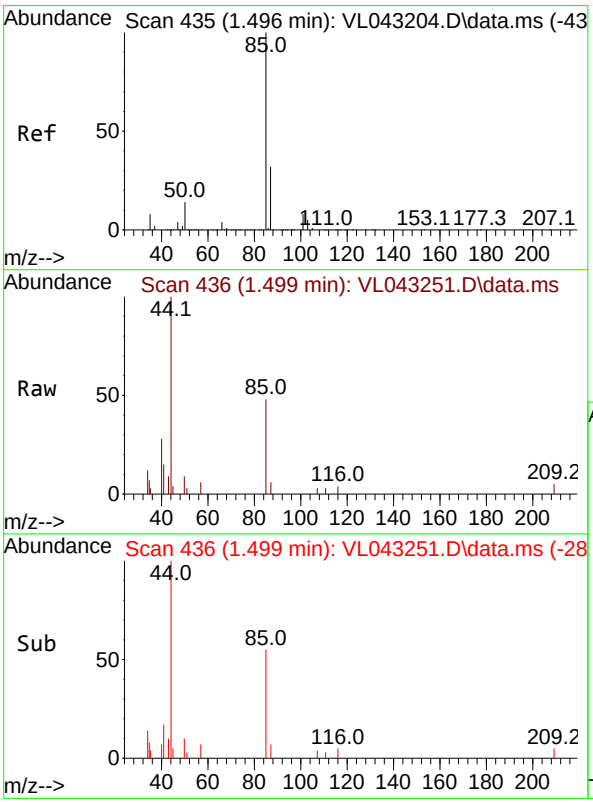
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Tgt Ion: 49 Resp: 98540

Ion	Ratio	Lower	Upper
49	100		
128	50.6	23.0	69.0
130	65.1	29.9	89.7

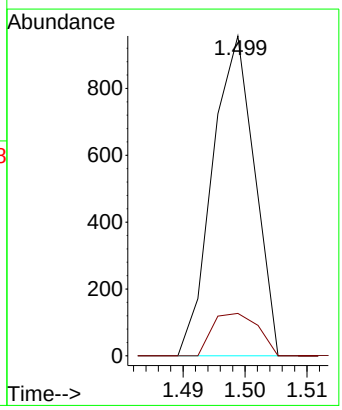


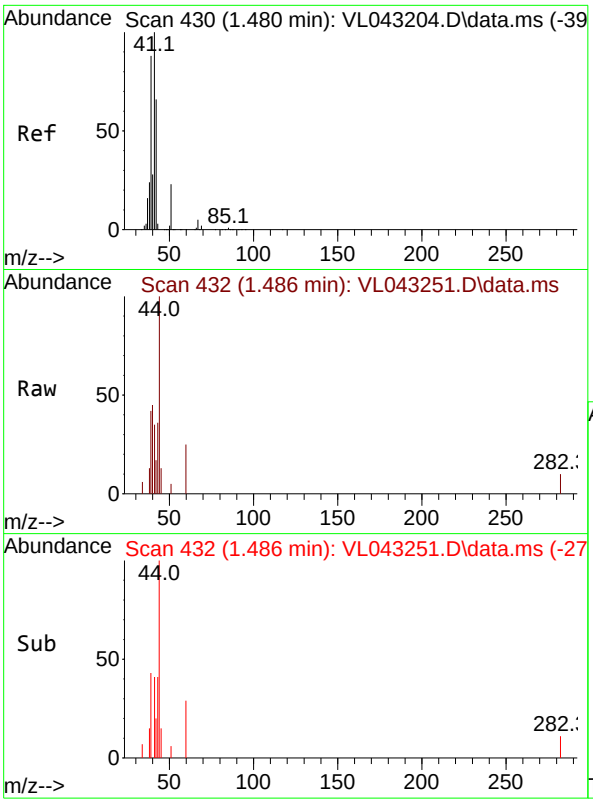


#2
Dichlorodifluoromethane
Concen: 0.033 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 85 Resp: 452

Ion	Ratio	Lower	Upper
85	100		
87	13.3	25.4	38.2#



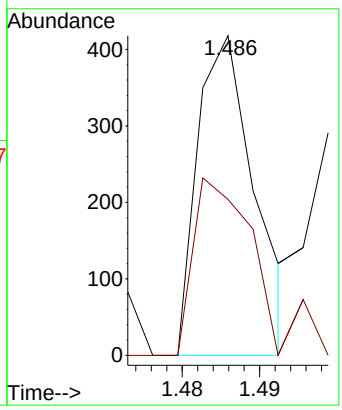


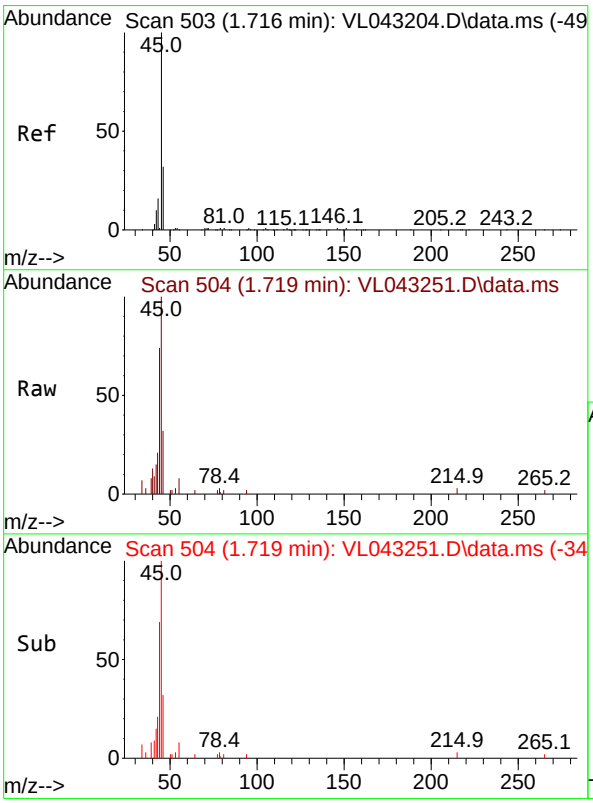
#9
Propene
Concen: 0.037 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Tgt Ion: 41 Resp: 214

Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5#

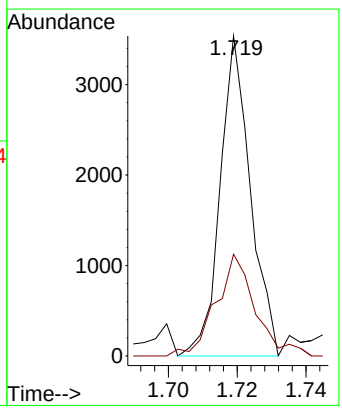


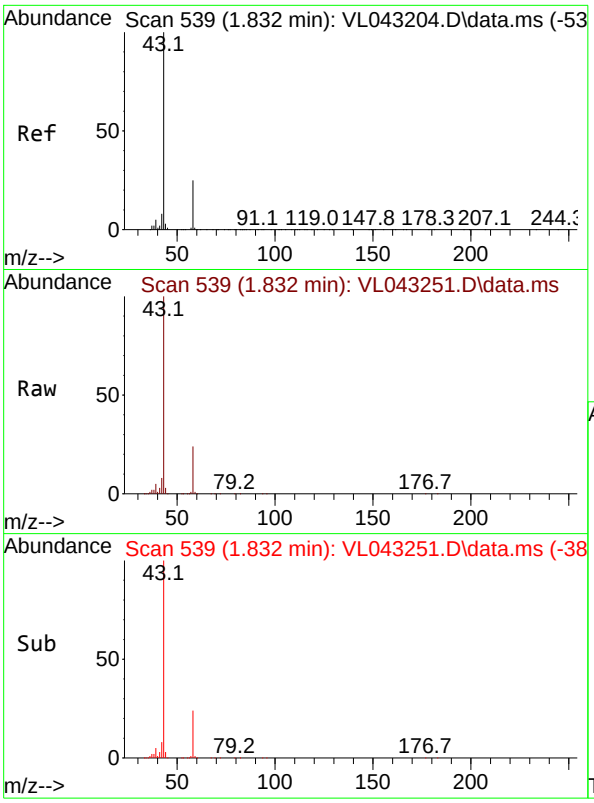


#13
Ethanol
Concen: 1.056 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 45 Resp: 2156

Ion	Ratio	Lower	Upper
45	100		
46	42.1	15.0	59.8



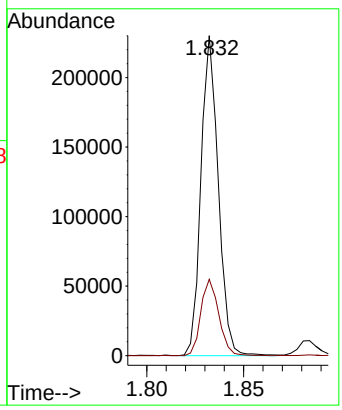


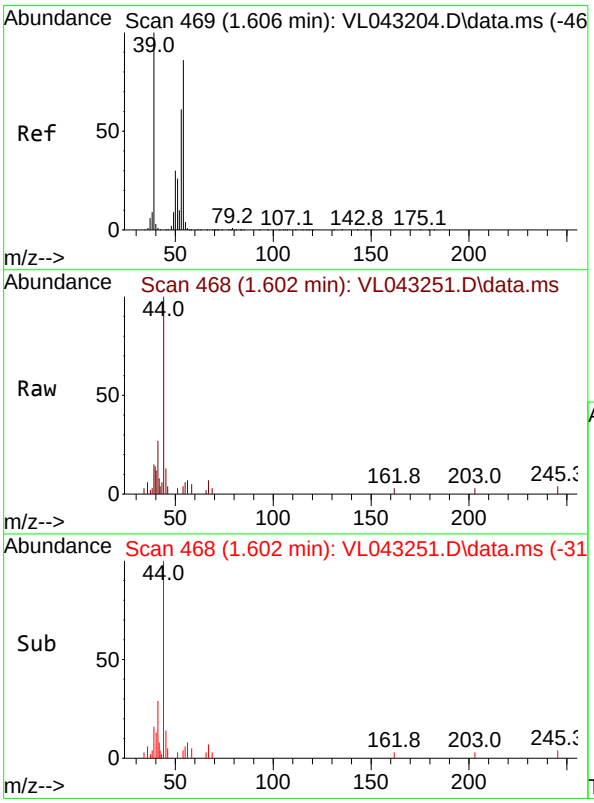
#15
Acetone
Concen: 10.461 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Tgt Ion: 43 Resp: 143219

Ion	Ratio	Lower	Upper
43	100		
58	24.8	20.7	31.1

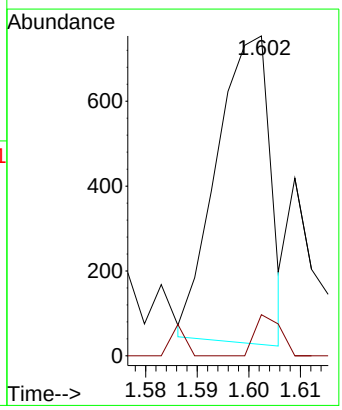


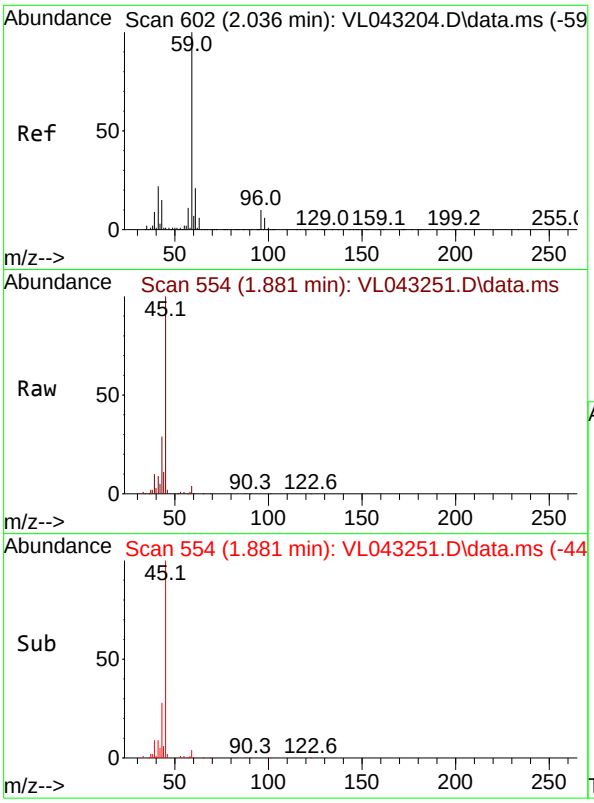


#16
1,3-Butadiene
Concen: 0.085 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 39 Resp: 519

Ion	Ratio	Lower	Upper
39	100		
54	6.4	59.4	89.2#



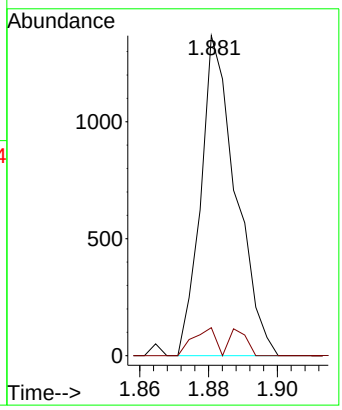


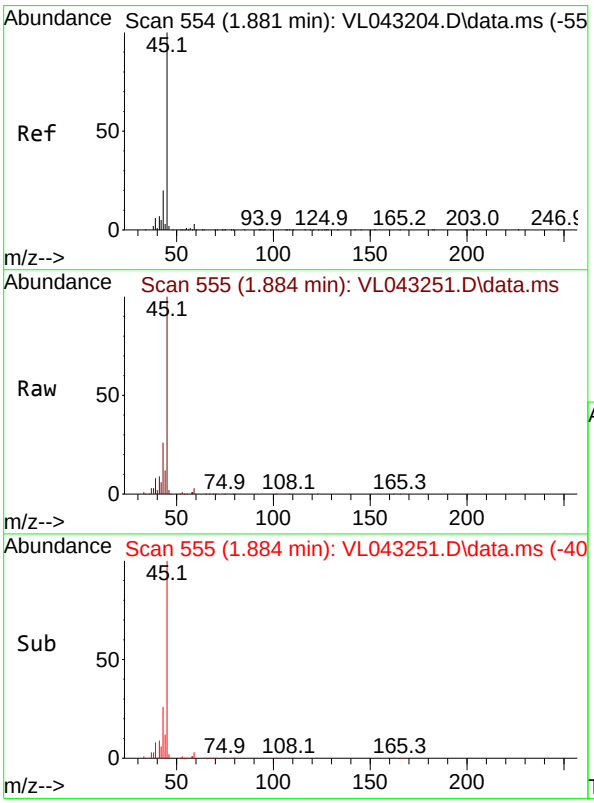
#17
tert-Butyl alcohol
Concen: 0.054 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.156 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Tgt Ion: 59 Resp: 968

Ion	Ratio	Lower	Upper
59	100		
57	9.7	9.0	13.4

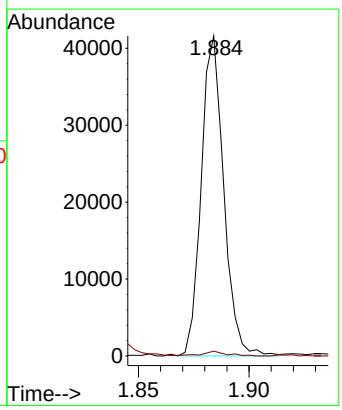


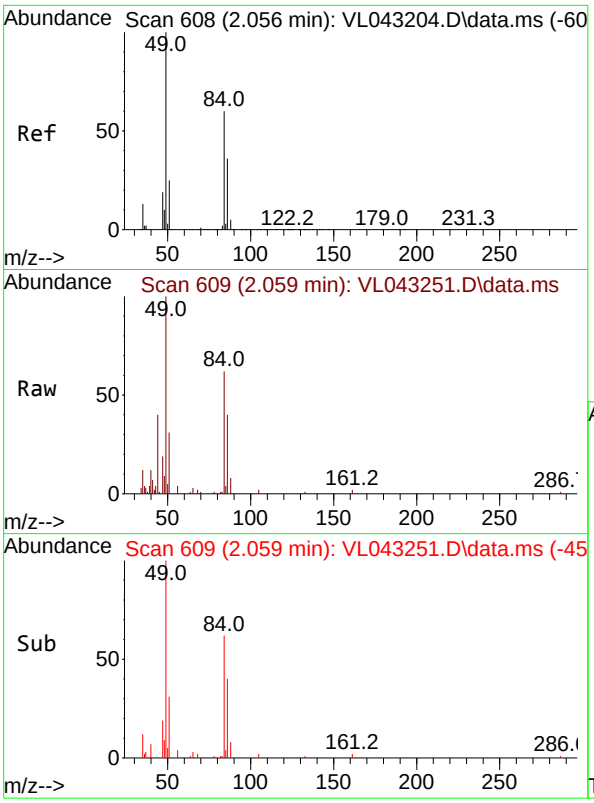


#19
Isopropyl Alcohol
Concen: 3.796 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 45 Resp: 29365

Ion	Ratio	Lower	Upper
45	100		
58	120.7	31.3	46.9#



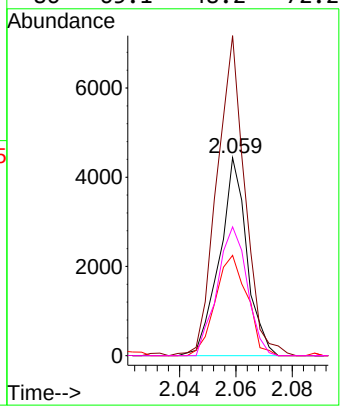


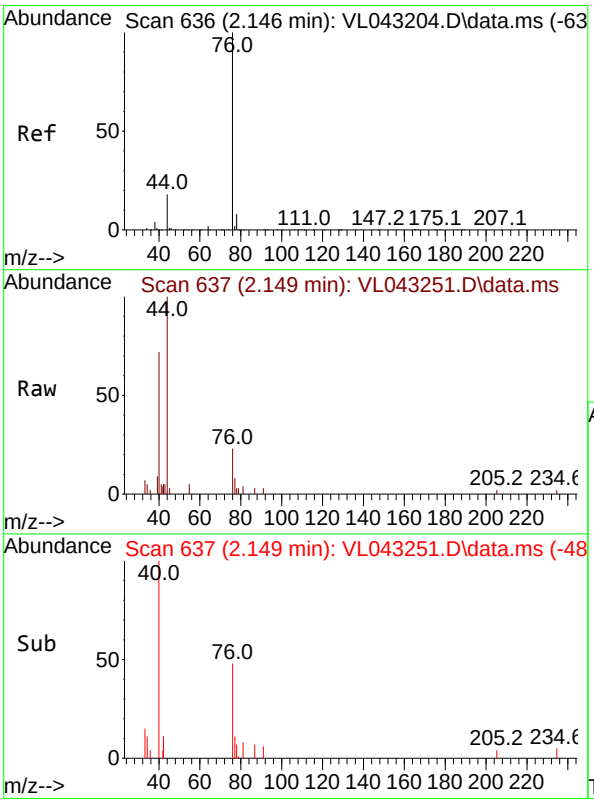
#20
Methylene Chloride
Concen: Below Cal
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Tgt Ion: 84 Resp: 2990

Ion	Ratio	Lower	Upper
84	100		
49	160.6	132.9	199.3
51	50.7	34.8	52.2
86	65.1	48.2	72.2

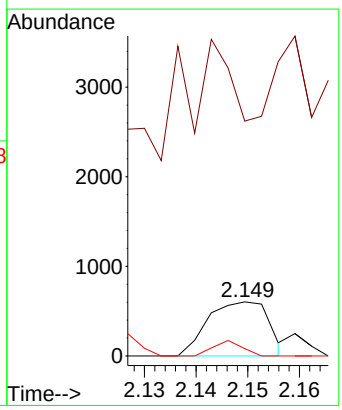


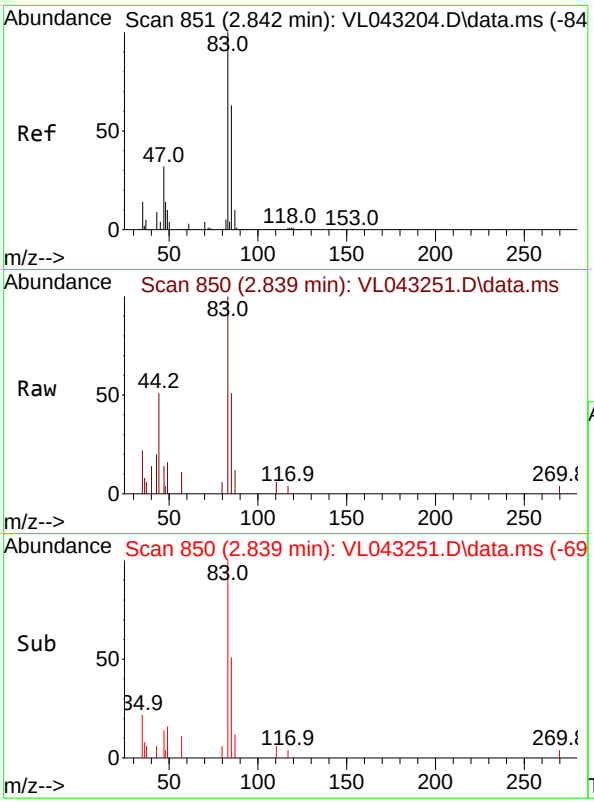


#27
Carbon Disulfide
Concen: 0.038 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 76 Resp: 496

Ion	Ratio	Lower	Upper
76	100		
44	571.2	16.1	24.1#
78	33.5	9.6	14.4#



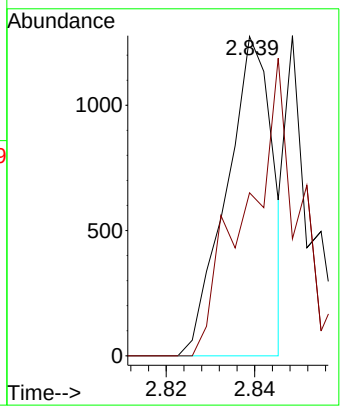


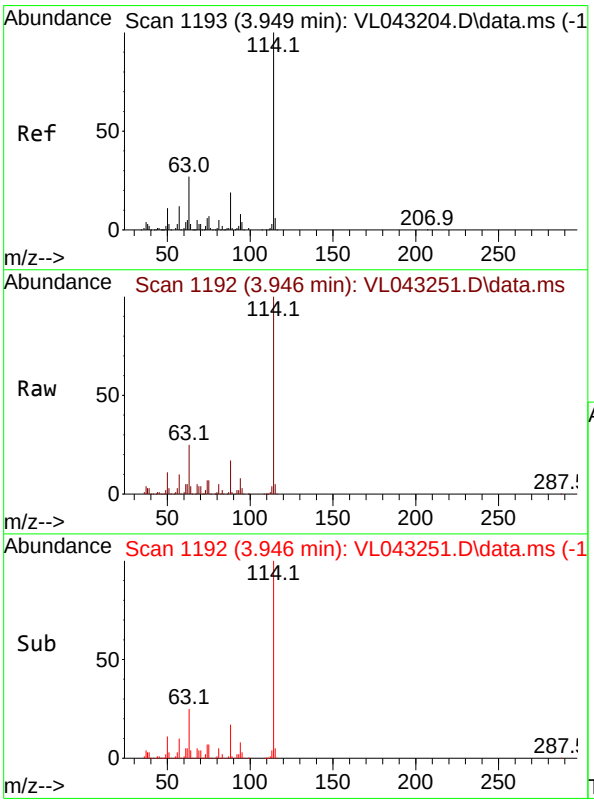
#29
Chloroform
Concen: 0.051 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Tgt Ion: 83 Resp: 936

Ion	Ratio	Lower	Upper
83	100		
85	51.1	50.5	75.7

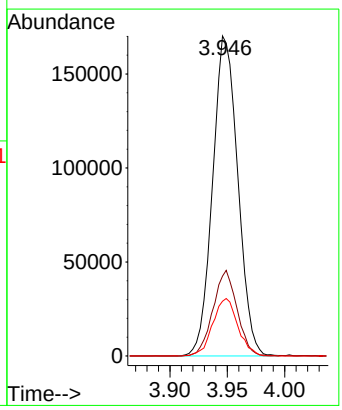


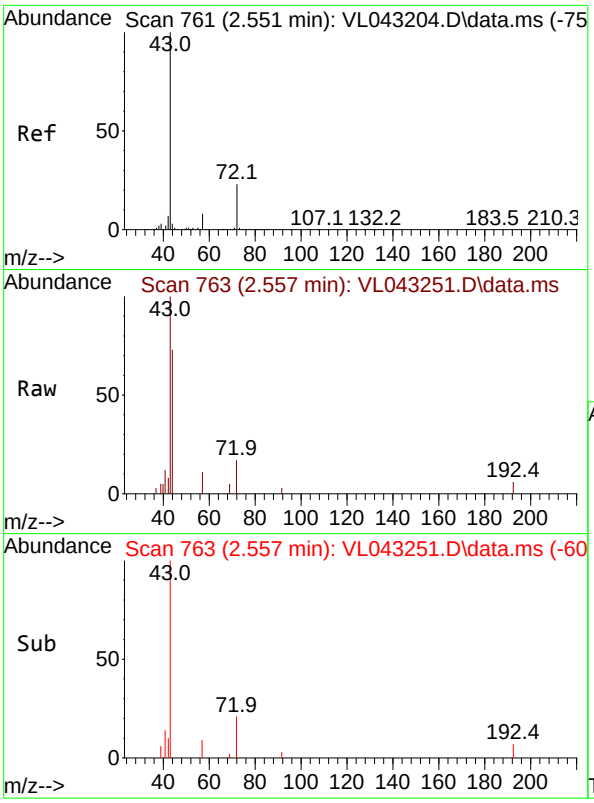


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion:114 Resp: 260350

Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.0	31.6
88	17.9	14.9	22.3



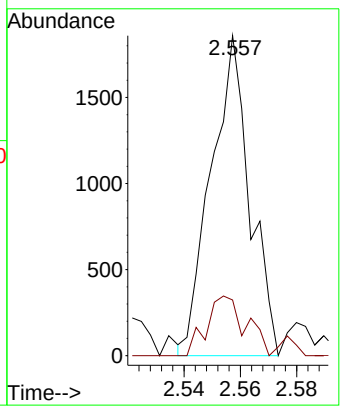


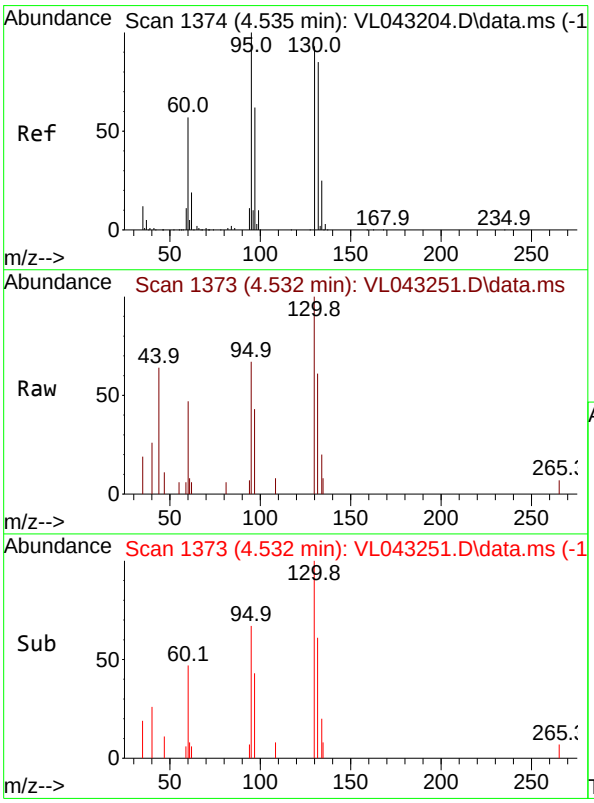
#34
2-Butanone
Concen: 0.096 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Tgt Ion: 43 Resp: 1772

Ion	Ratio	Lower	Upper
43	100		
72	21.3	18.1	27.1

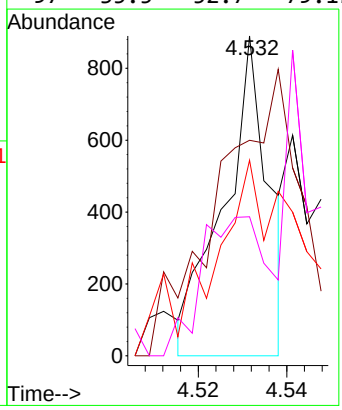


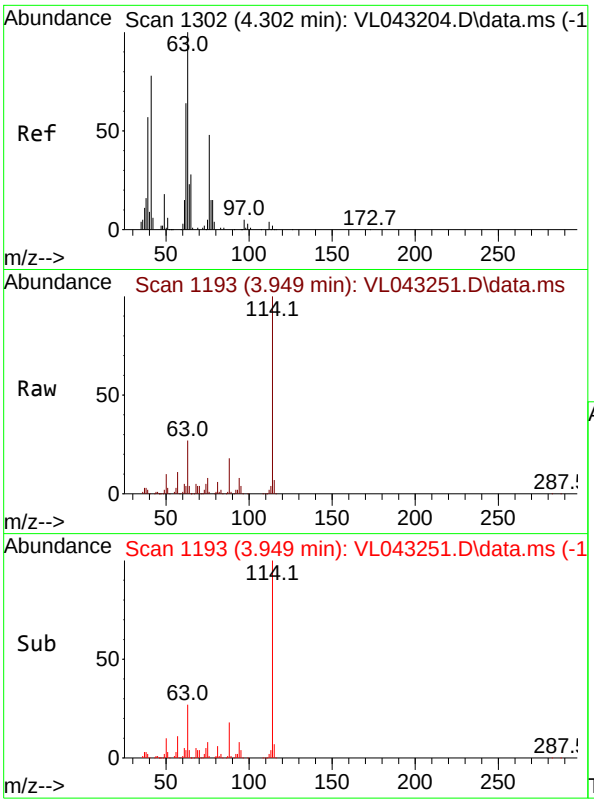


#38
Trichloroethene
Concen: 0.064 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. -0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion:130 Resp: 623

Ion	Ratio	Lower	Upper
130	100		
95	55.5	85.7	128.5#
132	62.1	73.4	110.0#
97	35.5	52.7	79.1#



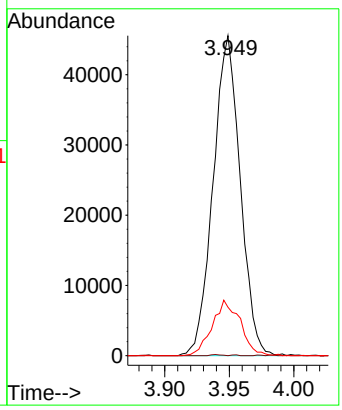


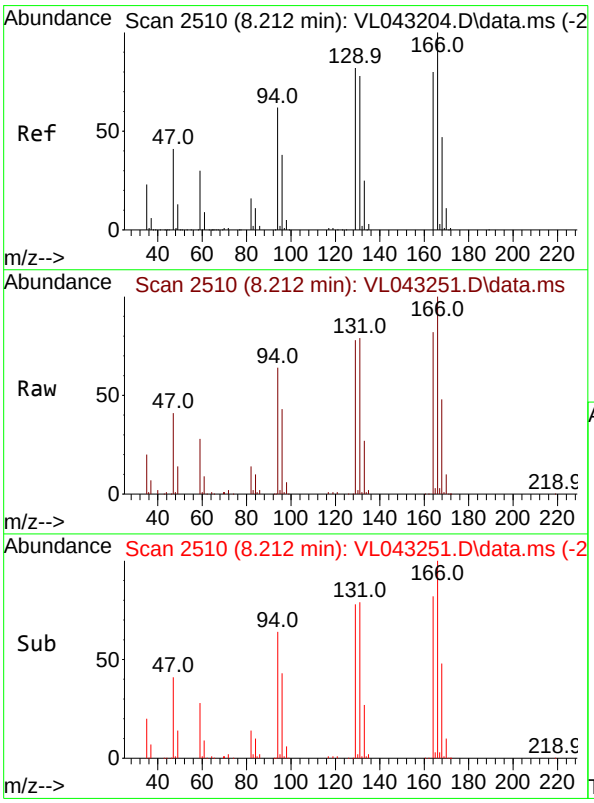
#39
1,2-Dichloropropane
Concen: 7.286 ppbv
RT: 3.949 min Scan# 1
Delta R.T. -0.353 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Tgt Ion: 63 Resp: 66492

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.6	93.8#
62	15.2	51.0	76.6#

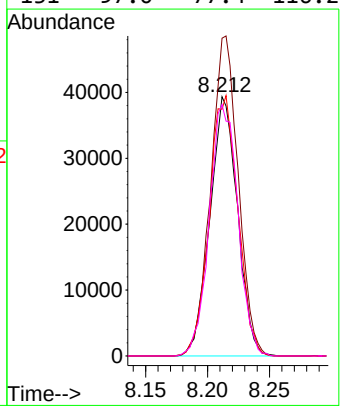


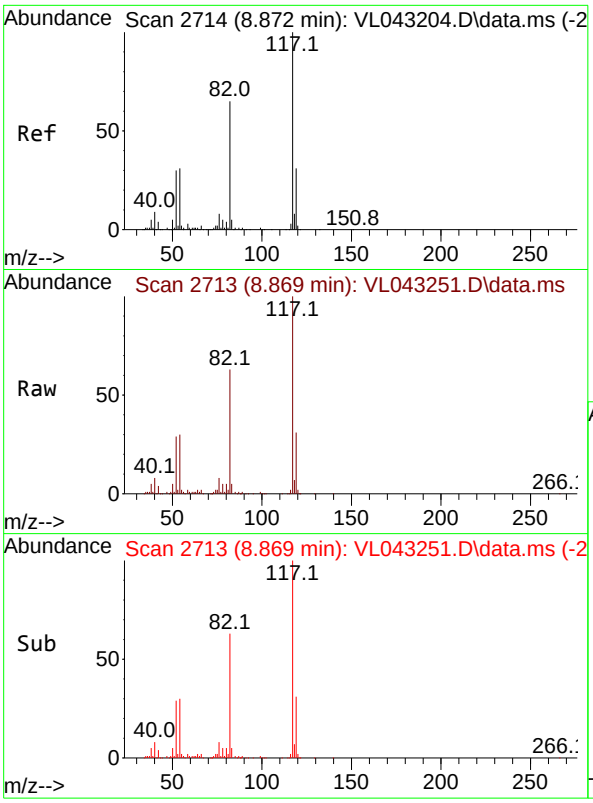


#52
Tetrachloroethene
Concen: 6.588 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion:164 Resp: 61105

Ion	Ratio	Lower	Upper
164	100		
166	122.5	99.4	149.2
129	95.2	81.8	122.8
131	97.0	77.4	116.2



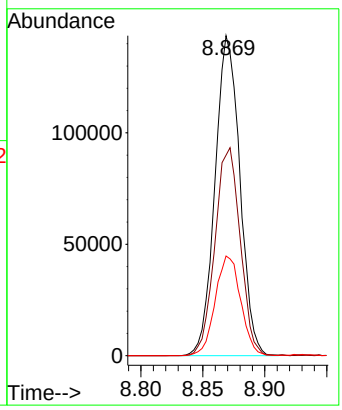


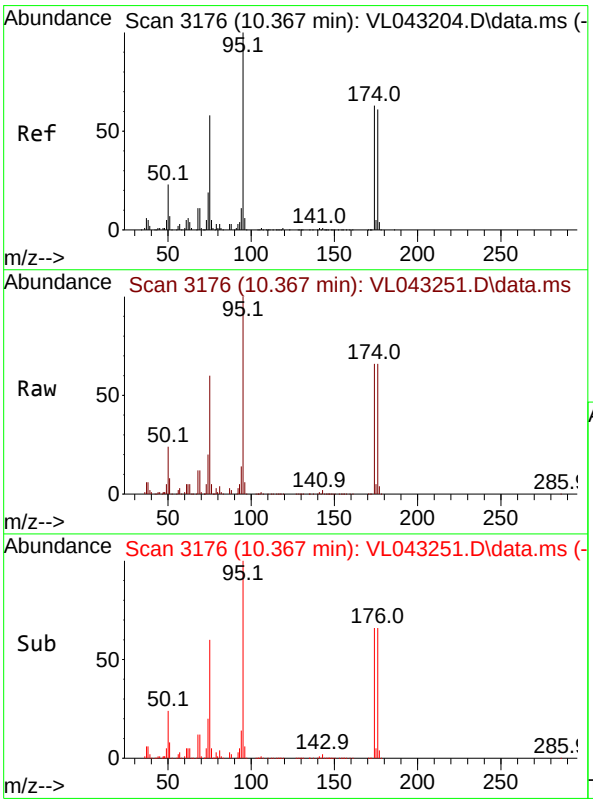
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Tgt Ion:117 Resp: 200769

Ion	Ratio	Lower	Upper
117	100		
82	66.3	56.1	84.1
119	32.0	25.0	37.6

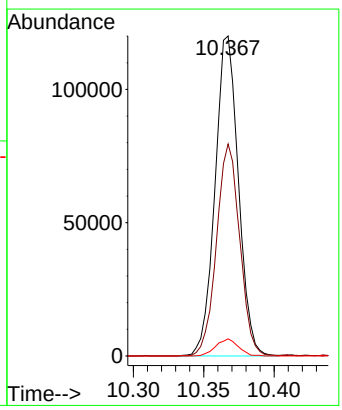




#68
1-Bromo-4-Fluorobenzene
Concen: 9.438 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 95 Resp: 138896

Ion	Ratio	Lower	Upper
95	100		
174	65.9	50.2	75.2
175	5.2	4.1	6.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043253.D
Acq On : 19 Nov 2025 23:12
Operator : SY/MD
Sample : Q3626-11DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Quant Time: Nov 20 00:13:05 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

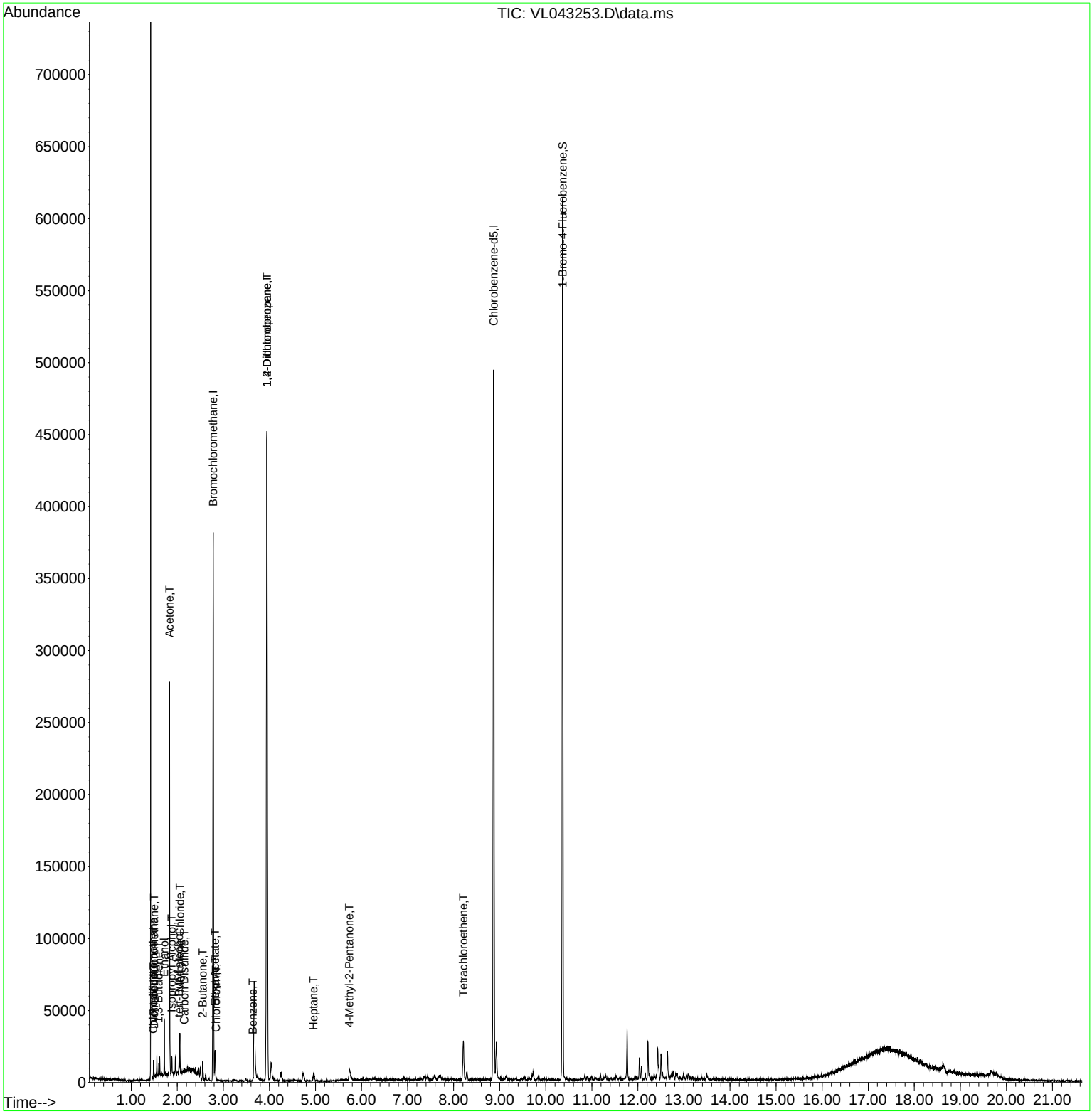
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.777	49	97568	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.946	114	261435	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.869	117	198573	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.364	95	142507	9.791	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	635	0.046	ppbv		89
3) Chlorodifluoromethane	1.476	51	579	0.043	ppbv	#	71
9) Propene	1.486	41	1412	0.246	ppbv	#	1
10) Heptane	4.959	43	1160	0.068	ppbv	#	34
13) Ethanol	1.719	45	14283	7.068	ppbv		99
15) Acetone	1.829	43	118278	8.725	ppbv		99
16) 1,3-Butadiene	1.596	39	879	0.145	ppbv	#	36
17) tert-Butyl alcohol	2.039	59	3488	0.196	ppbv		95
19) Isopropyl Alcohol	1.881	45	5404	0.706	ppbv	#	1
20) Methylene Chloride	2.059	84	4098	0.262	ppbv	#	77
25) Ethyl Acetate	2.819	43	3403	0.116	ppbv	#	75
26) Hexane	2.819	57	4125	0.322	ppbv	#	43
27) Carbon Disulfide	2.149	76	889	0.068	ppbv	#	1
29) Chloroform	2.839	83	674	0.037	ppbv	#	78
34) 2-Butanone	2.551	43	8708	0.472	ppbv	#	90
36) Benzene	3.642	78	770	0.031	ppbv	#	76
39) 1,2-Dichloropropane	3.946	63	66945	7.306	ppbv	#	26
50) 4-Methyl-2-Pentanone	5.736	43	2173	0.084	ppbv	#	1
52) Tetrachloroethene	8.212	164	3777	0.406	ppbv		93

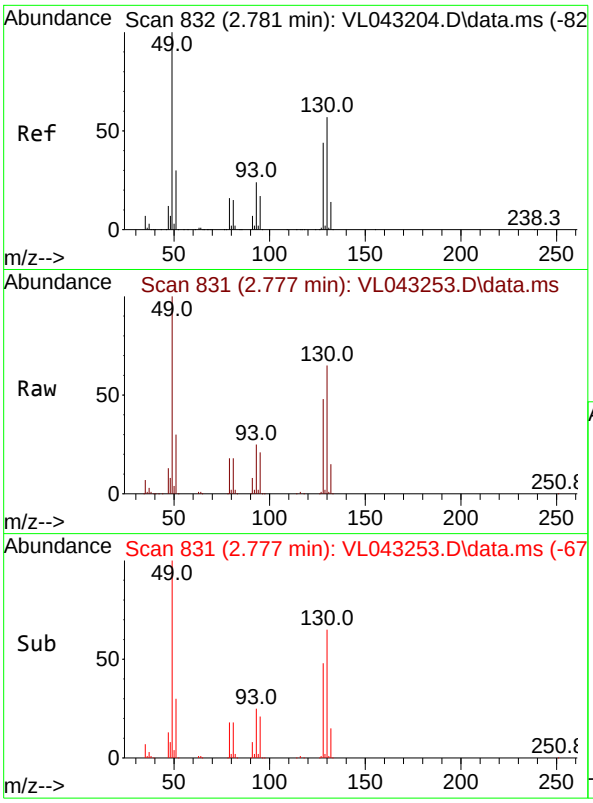
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043253.D
Acq On : 19 Nov 2025 23:12
Operator : SY/MD
Sample : Q3626-11DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Quant Time: Nov 20 00:13:05 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



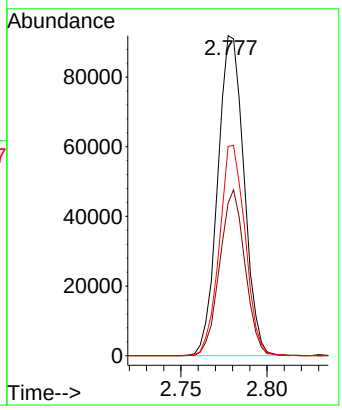


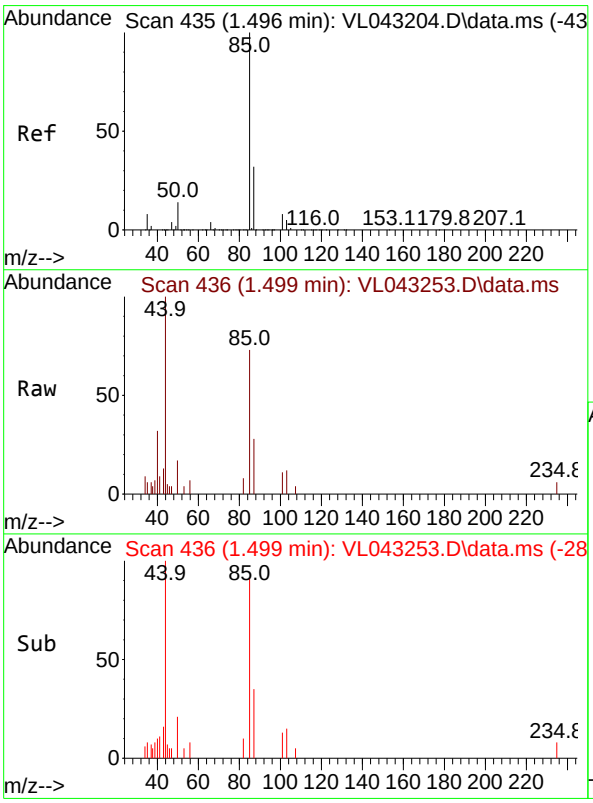
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Tgt Ion: 49 Resp: 97568

Ion	Ratio	Lower	Upper
49	100		
128	49.8	23.0	69.0
130	64.6	29.9	89.7

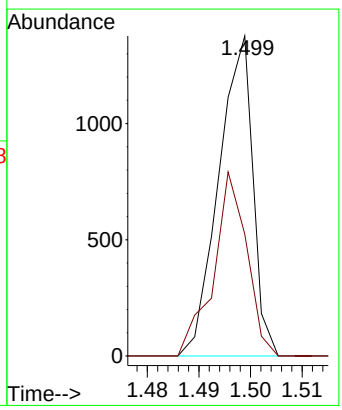


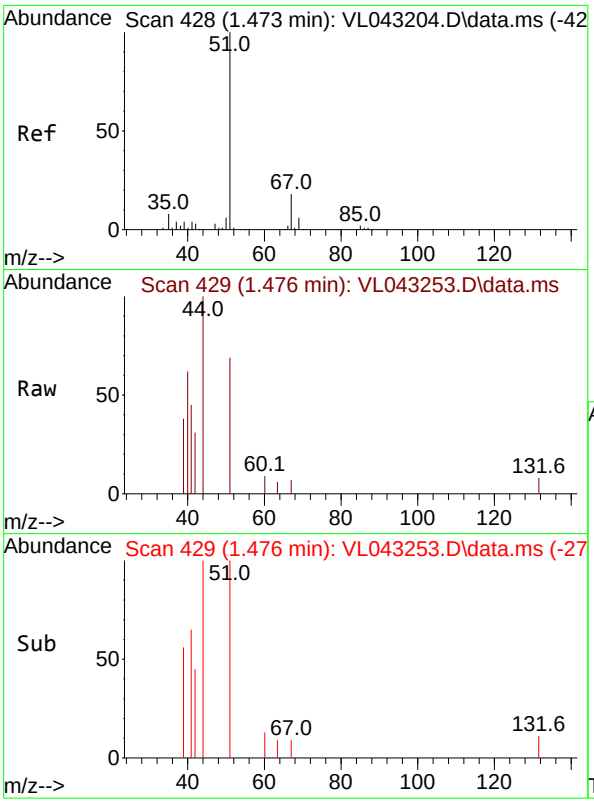


#2
Dichlorodifluoromethane
Concen: 0.046 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 85 Resp: 635

Ion	Ratio	Lower	Upper
85	100		
87	38.1	25.4	38.2



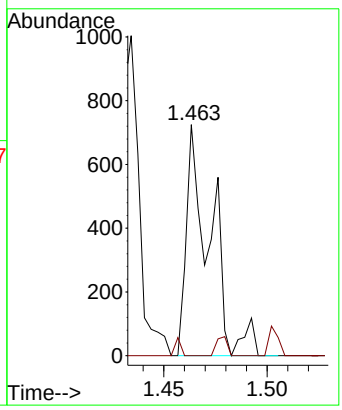


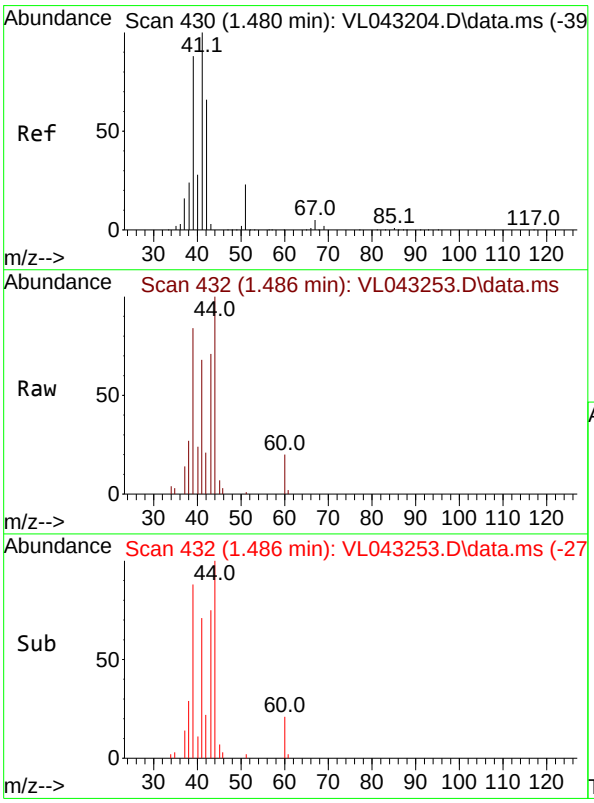
#3
Chlorodifluoromethane
Concen: 0.043 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Tgt Ion: 51 Resp: 579

Ion	Ratio	Lower	Upper
51	100		
67	5.7	14.9	22.3#

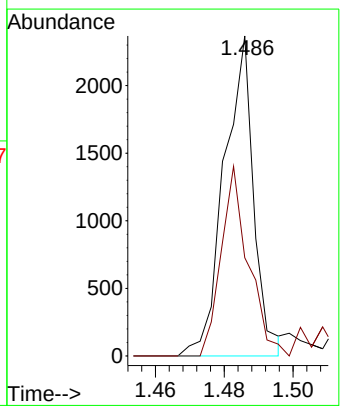


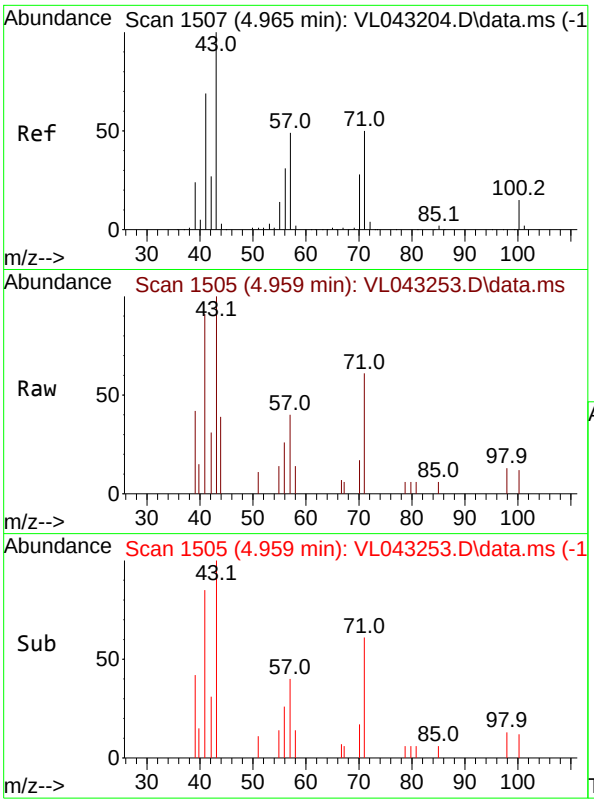


#9
Propene
Concen: 0.246 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 41 Resp: 1412

Ion	Ratio	Lower	Upper
41	100		
42	70.8	3.7	5.5#



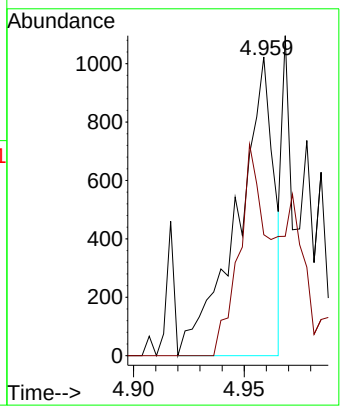


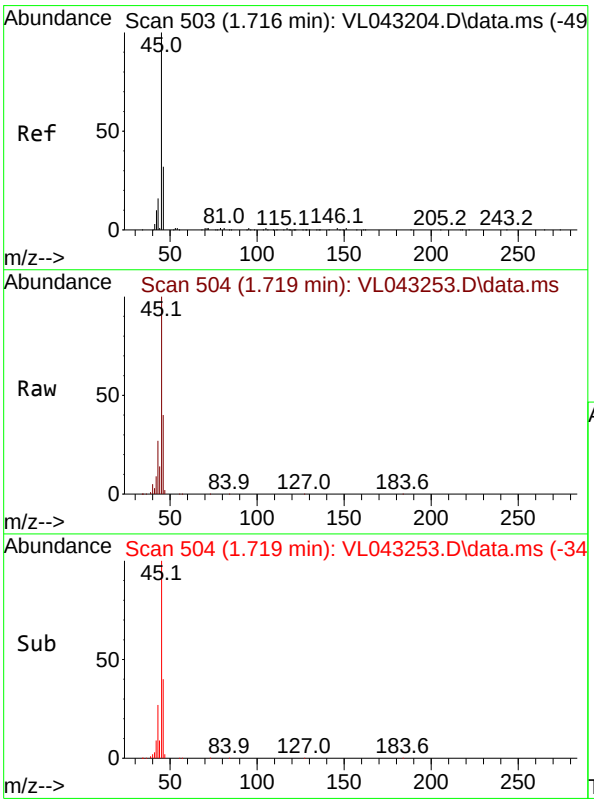
#10
Heptane
Concen: 0.068 ppbv
RT: 4.959 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Tgt Ion: 43 Resp: 1160

Ion	Ratio	Lower	Upper
43	100		
57	94.6	39.7	59.5#

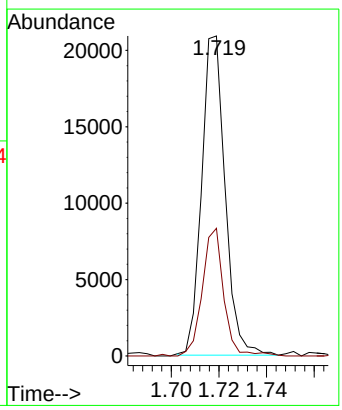


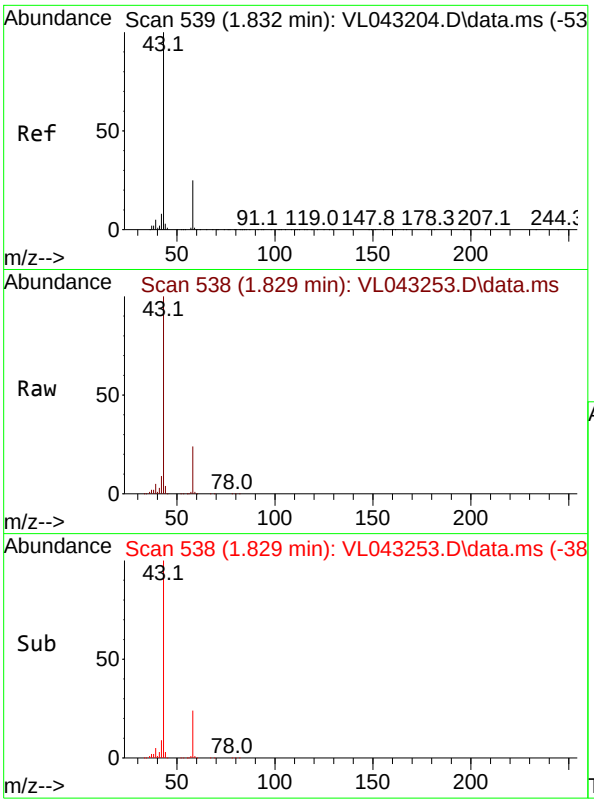


#13
Ethanol
Concen: 7.068 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 45 Resp: 14283

Ion	Ratio	Lower	Upper
45	100		
46	36.6	15.0	59.8



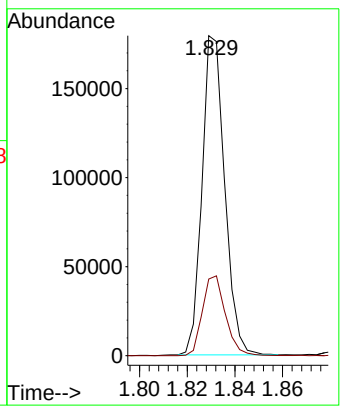


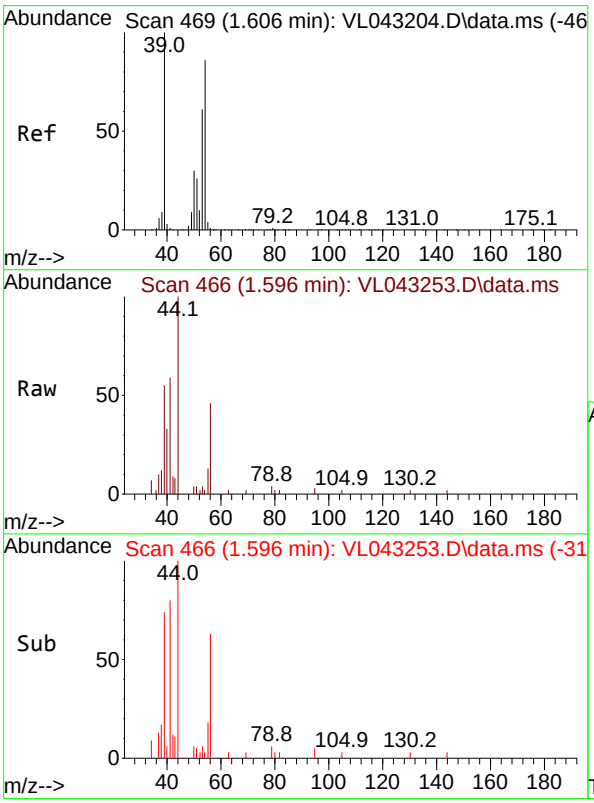
#15
Acetone
Concen: 8.725 ppbv
RT: 1.829 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Tgt Ion: 43 Resp: 118278

Ion	Ratio	Lower	Upper
43	100		
58	25.5	20.7	31.1

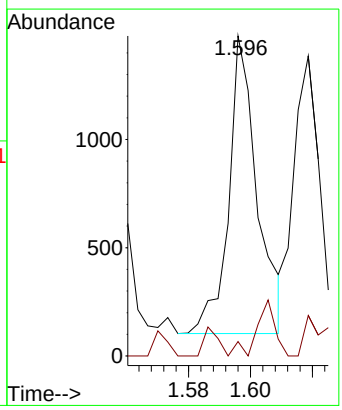


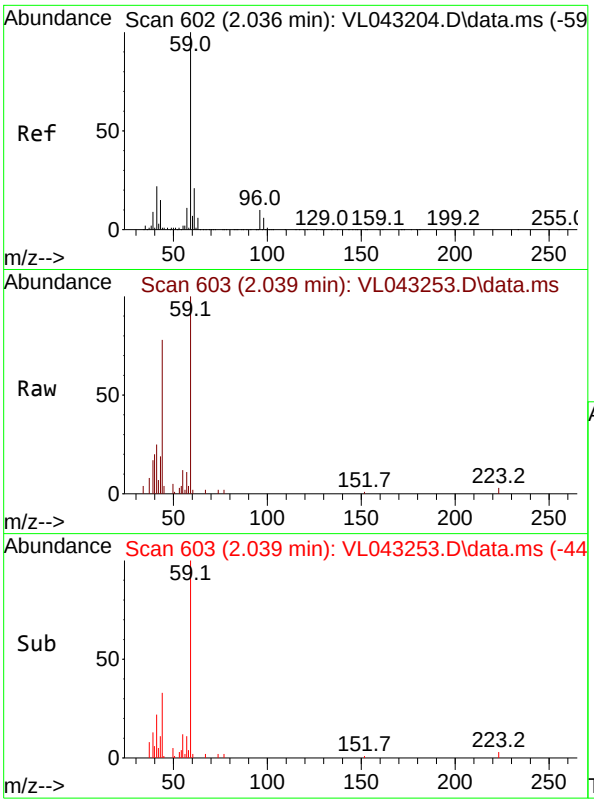


#16
1,3-Butadiene
Concen: 0.145 ppbv
RT: 1.596 min Scan# 466
Delta R.T. -0.010 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 39 Resp: 879

Ion	Ratio	Lower	Upper
39	100		
54	19.9	59.4	89.2#



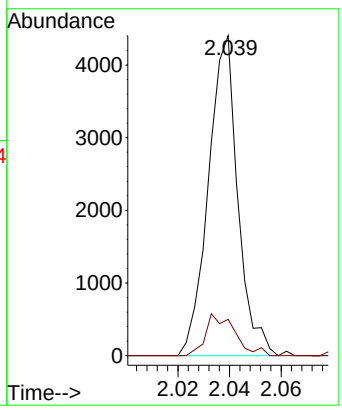


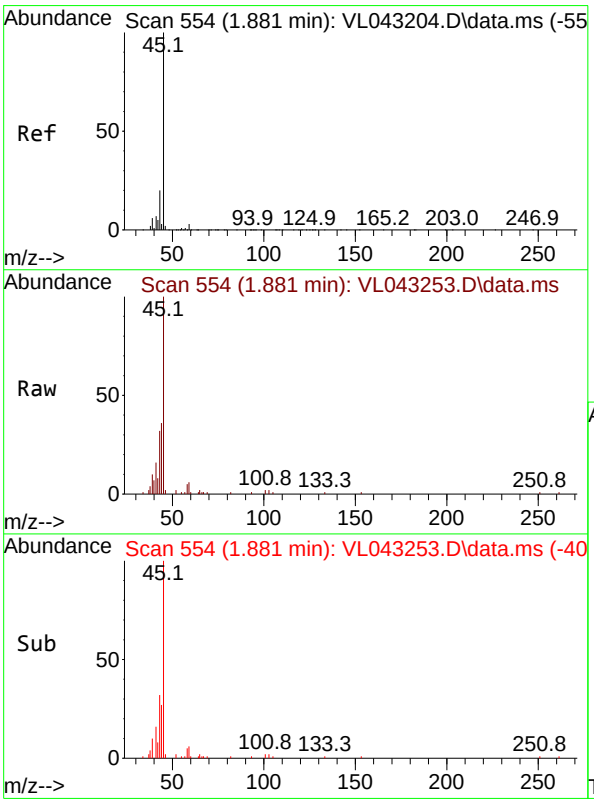
#17
tert-Butyl alcohol
Concen: 0.196 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Tgt Ion: 59 Resp: 3488

Ion	Ratio	Lower	Upper
59	100		
57	13.0	9.0	13.4

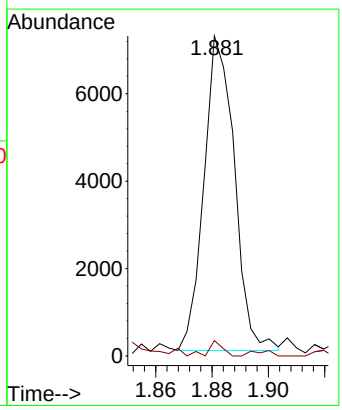


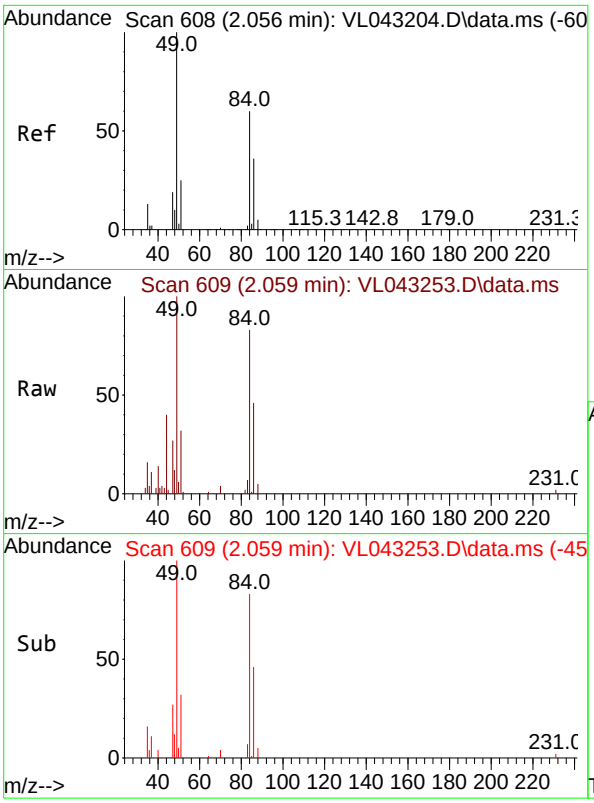


#19
Isopropyl Alcohol
Concen: 0.706 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 45 Resp: 5404

Ion	Ratio	Lower	Upper
45	100		
58	557.6	31.3	46.9#



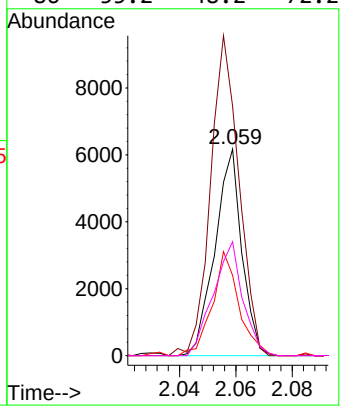


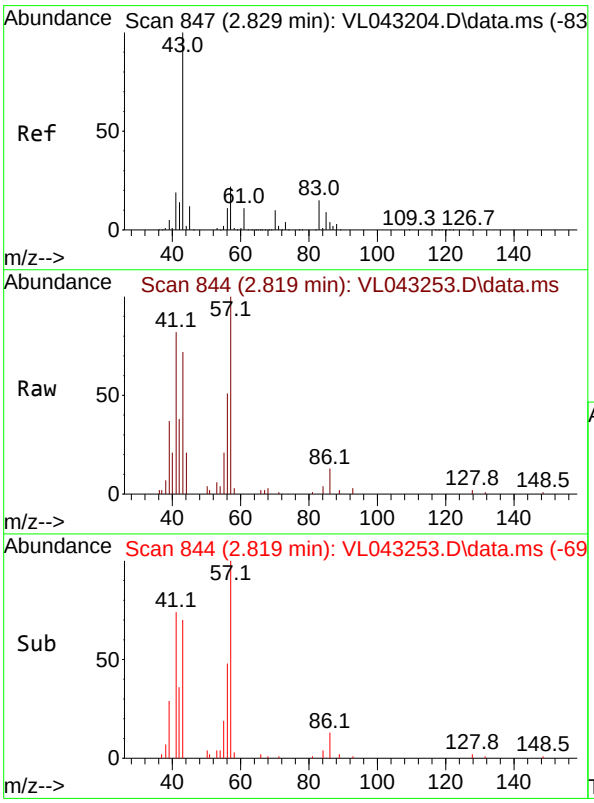
#20
Methylene Chloride
Concen: 0.262 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Tgt Ion: 84 Resp: 4098

Ion	Ratio	Lower	Upper
84	100		
49	120.8	132.9	199.3#
51	38.9	34.8	52.2
86	55.2	48.2	72.2

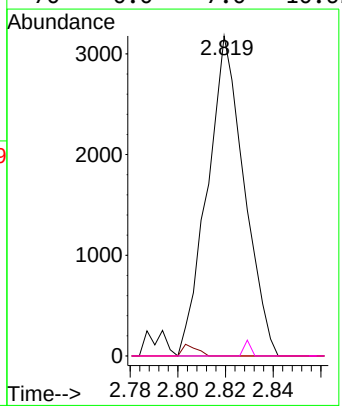


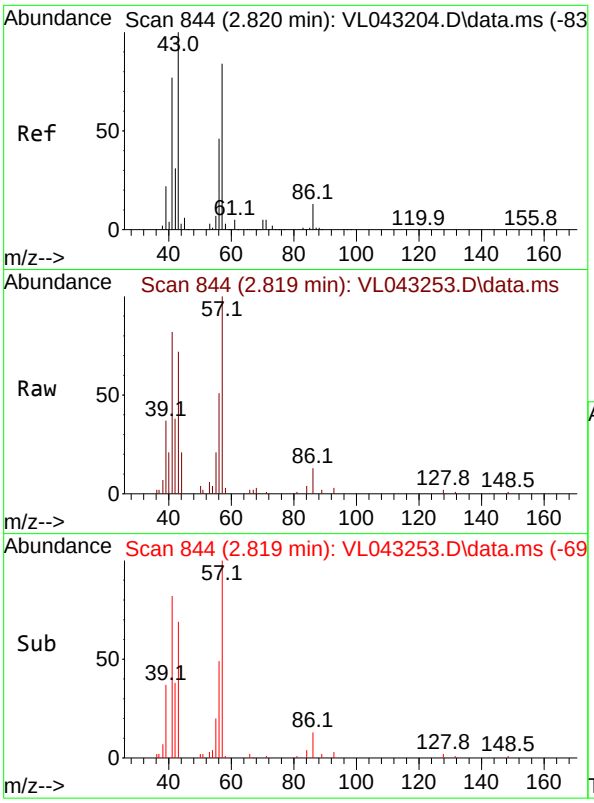


#25
Ethyl Acetate
Concen: 0.116 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.010 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 43 Resp: 3403

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#



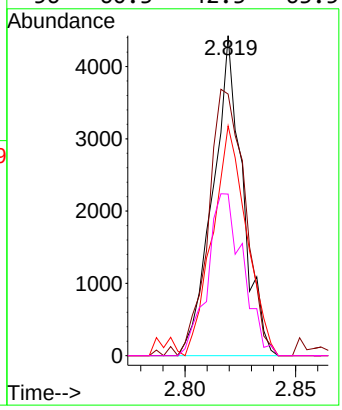


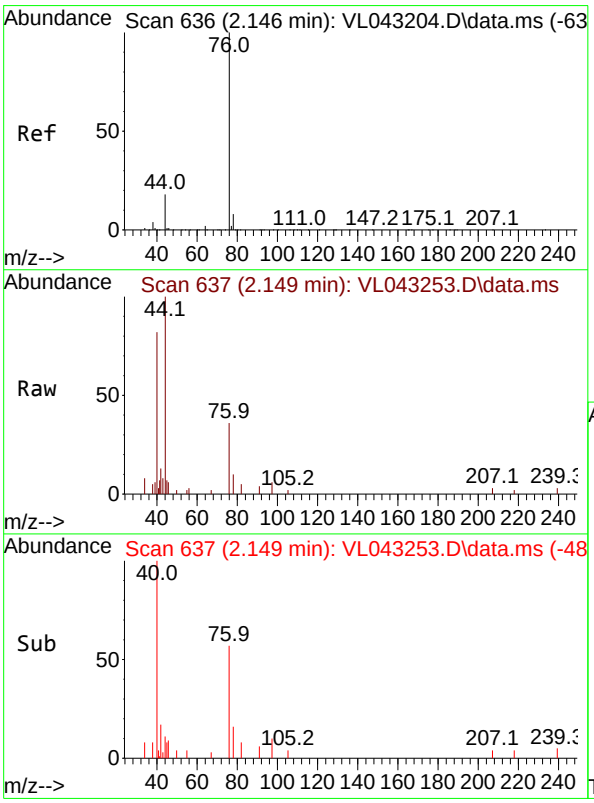
#26
Hexane
Concen: 0.322 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Tgt Ion: 57 Resp: 4125

Ion	Ratio	Lower	Upper
57	100		
41	107.6	74.6	111.8
43	85.7	179.0	268.4#
56	60.3	42.3	63.5

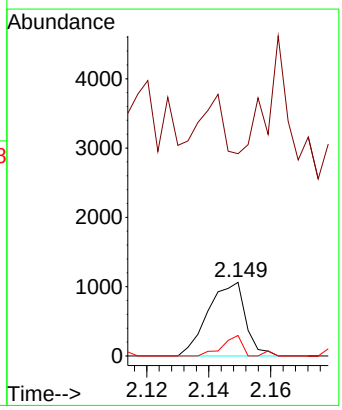


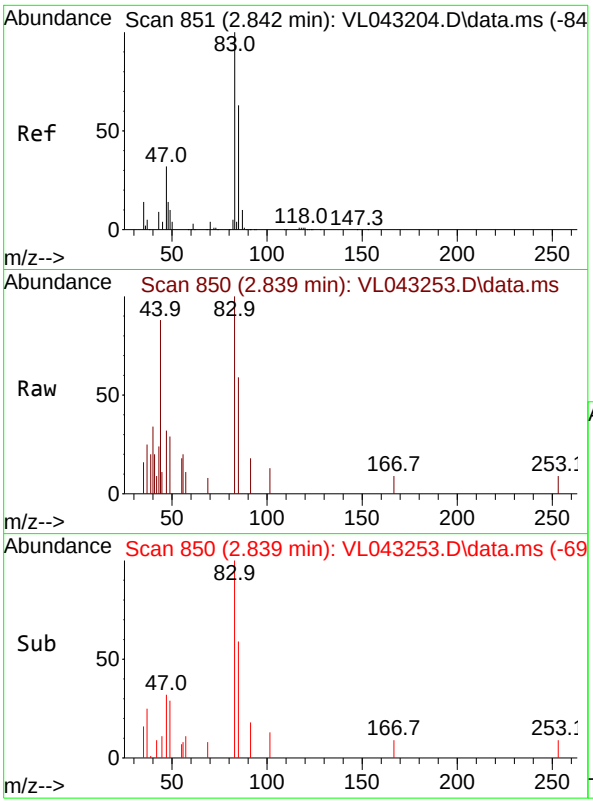


#27
Carbon Disulfide
Concen: 0.068 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 76 Resp: 889

Ion	Ratio	Lower	Upper
76	100		
44	891.0	16.1	24.1#
78	16.0	9.6	14.4#



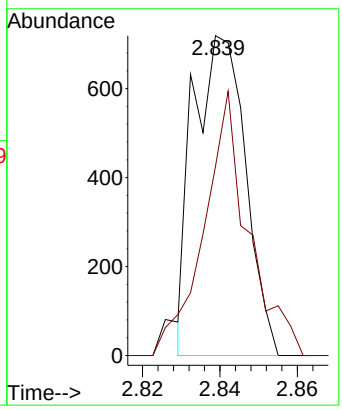


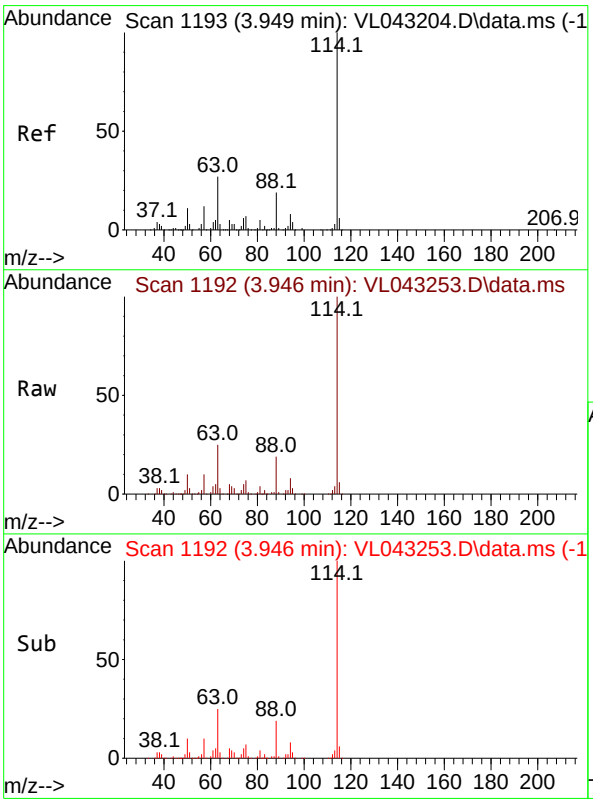
#29
Chloroform
Concen: 0.037 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Tgt Ion: 83 Resp: 674

Ion	Ratio	Lower	Upper
83	100		
85	46.3	50.5	75.7#

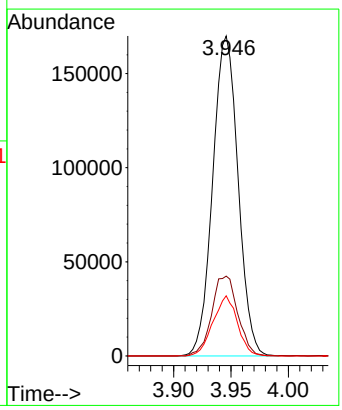


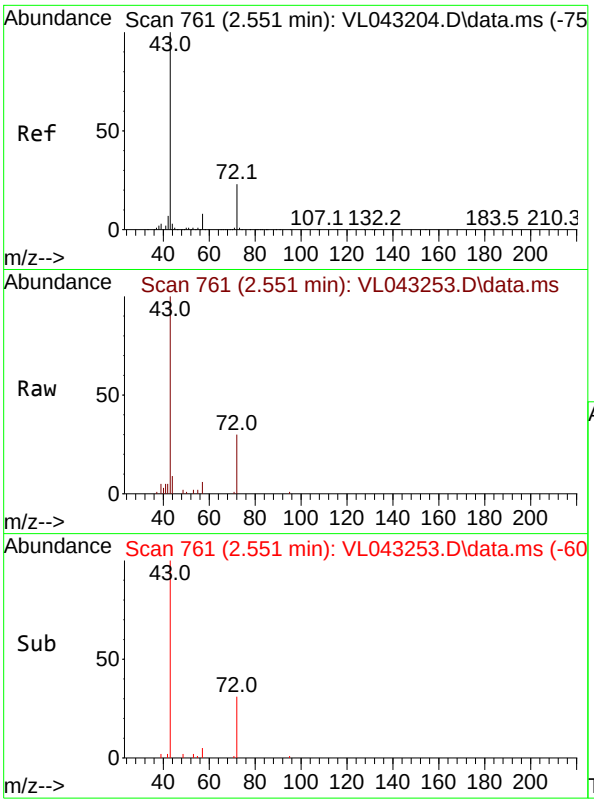


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion:114 Resp: 261435

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	18.1	14.9	22.3



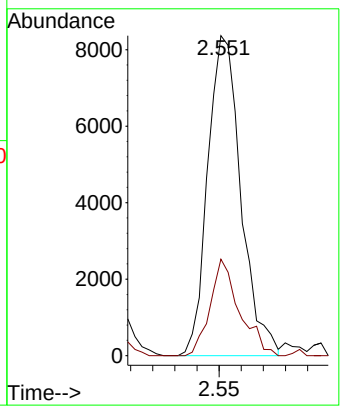


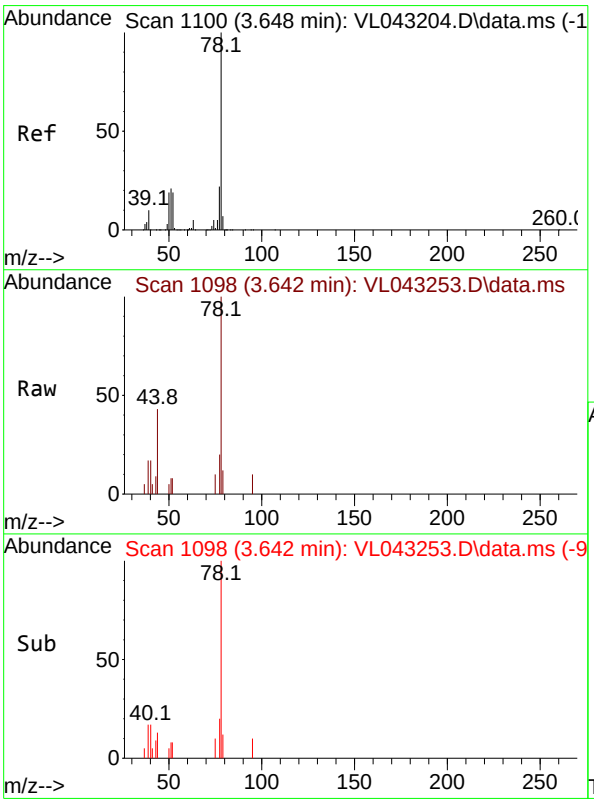
#34
2-Butanone
Concen: 0.472 ppbv
RT: 2.551 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Tgt Ion: 43 Resp: 8708

Ion	Ratio	Lower	Upper
43	100		
72	27.2	18.1	27.1#

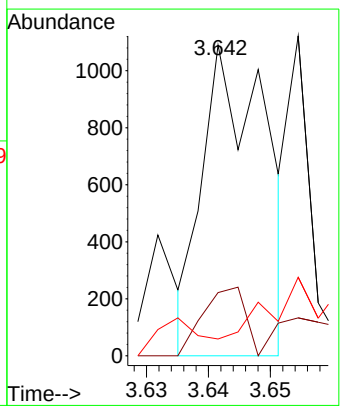


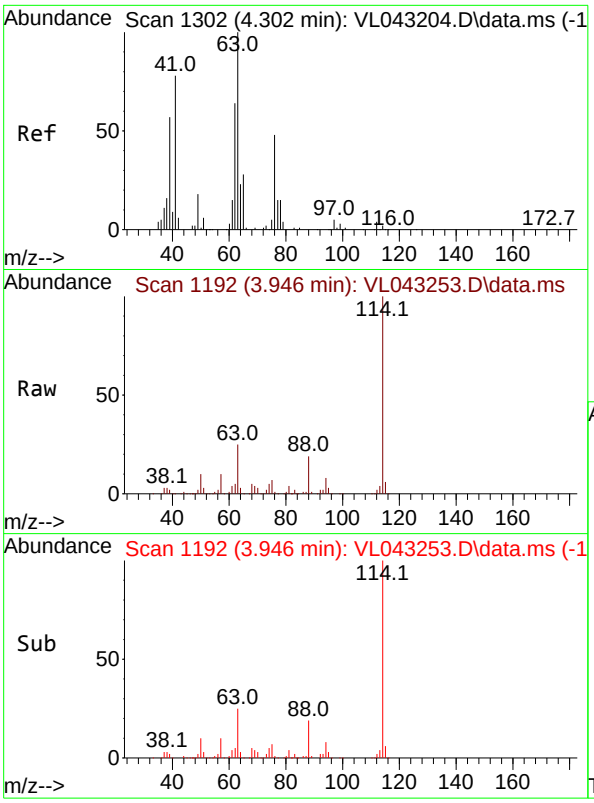


#36
Benzene
Concen: 0.031 ppbv
RT: 3.642 min Scan# 1098
Delta R.T. -0.007 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 78 Resp: 770

Ion	Ratio	Lower	Upper
78	100		
77	25.8	17.5	26.3
50	0.0	15.5	23.3#



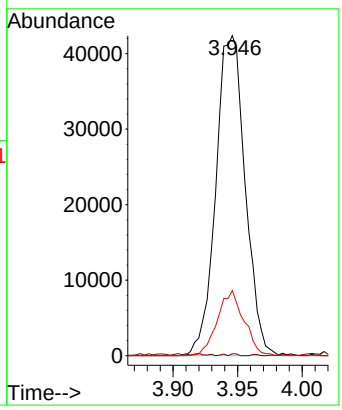


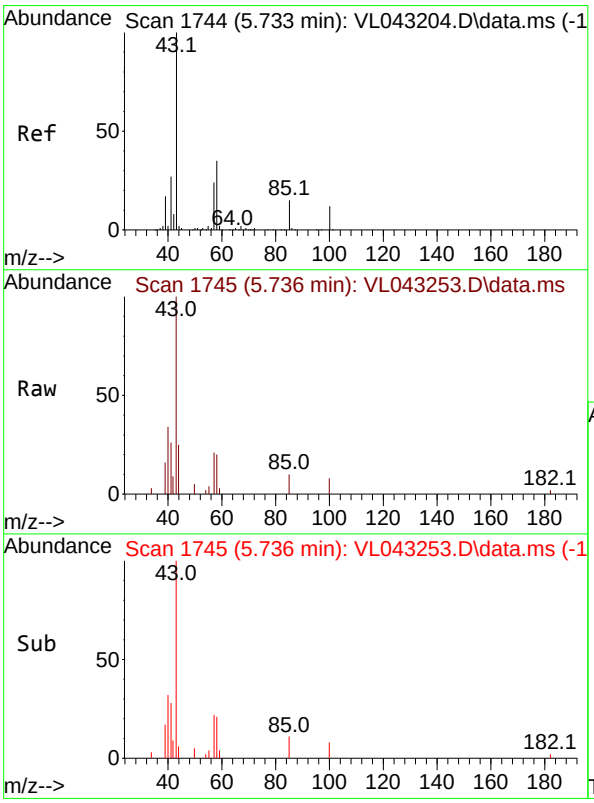
#39
1,2-Dichloropropane
Concen: 7.306 ppbv
RT: 3.946 min Scan# 1
Delta R.T. -0.356 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Tgt Ion: 63 Resp: 66945

Ion	Ratio	Lower	Upper
63	100		
41	0.6	62.6	93.8#
62	20.4	51.0	76.6#

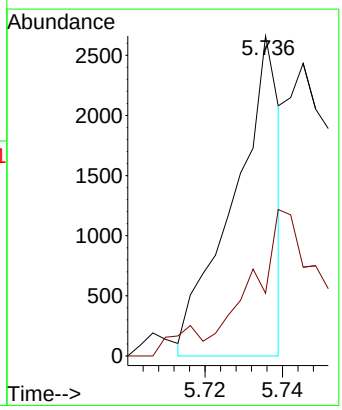


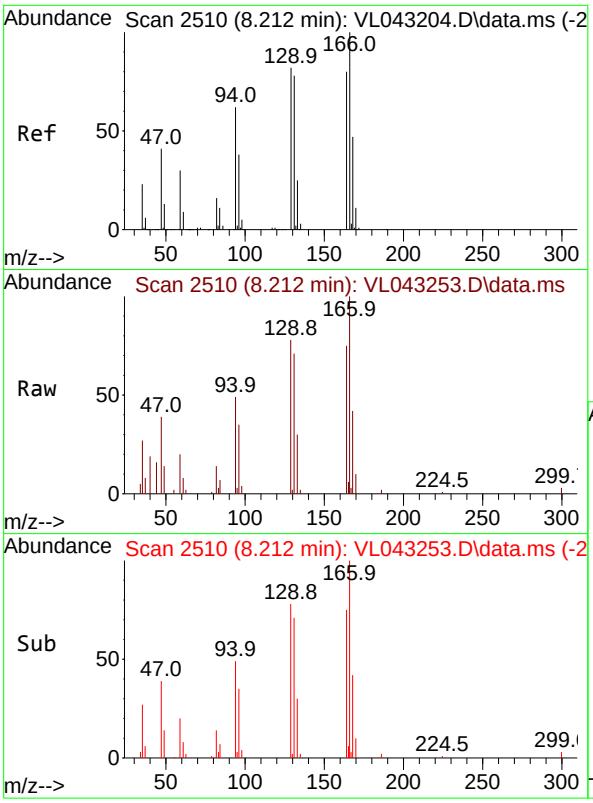


#50
4-Methyl-2-Pentanone
Concen: 0.084 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 43 Resp: 2173

Ion	Ratio	Lower	Upper
43	100		
58	104.3	28.4	42.6#



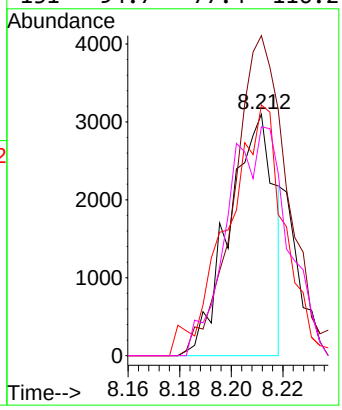


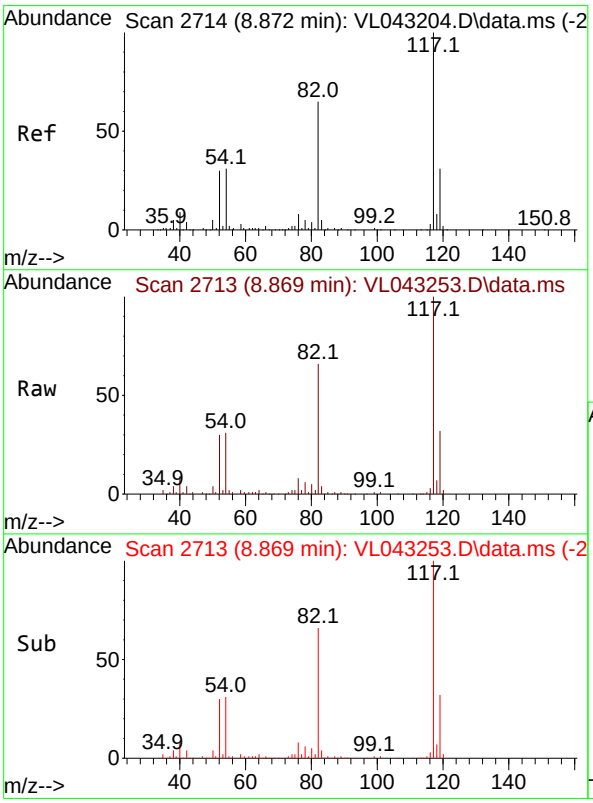
#52
Tetrachloroethene
Concen: 0.406 ppbv
RT: 8.212 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Tgt Ion:164 Resp: 3777

Ion	Ratio	Lower	Upper
164	100		
166	132.5	99.4	149.2
129	91.3	81.8	122.8
131	94.7	77.4	116.2

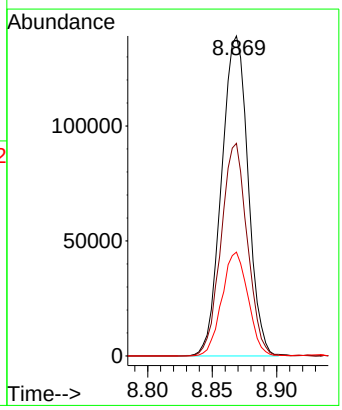


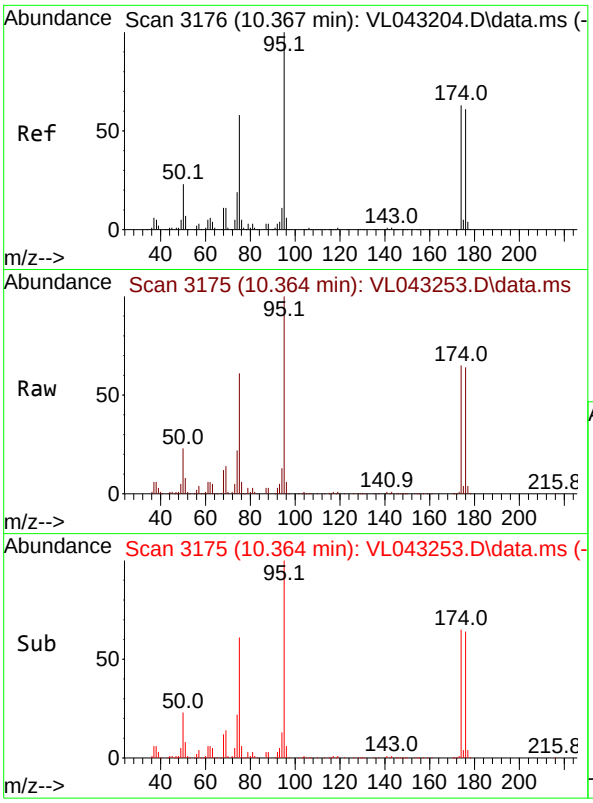


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion:117 Resp: 198573

Ion	Ratio	Lower	Upper
117	100		
82	65.9	56.1	84.1
119	32.1	25.0	37.6



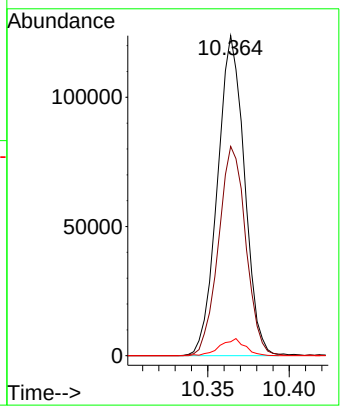


#68
1-Bromo-4-Fluorobenzene
Concen: 9.791 ppbv
RT: 10.364 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Tgt Ion: 95 Resp: 142507

Ion	Ratio	Lower	Upper
95	100		
174	66.4	50.2	75.2
175	5.0	4.1	6.1



Quantitation Report (Not 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

Instrument :
MSVOA_L
ClientSampleId :
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

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	1.768	41	57274	9.463	ppbv	98
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 (Not 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

Instrument :
MSVOA_L
ClientSampleId :
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

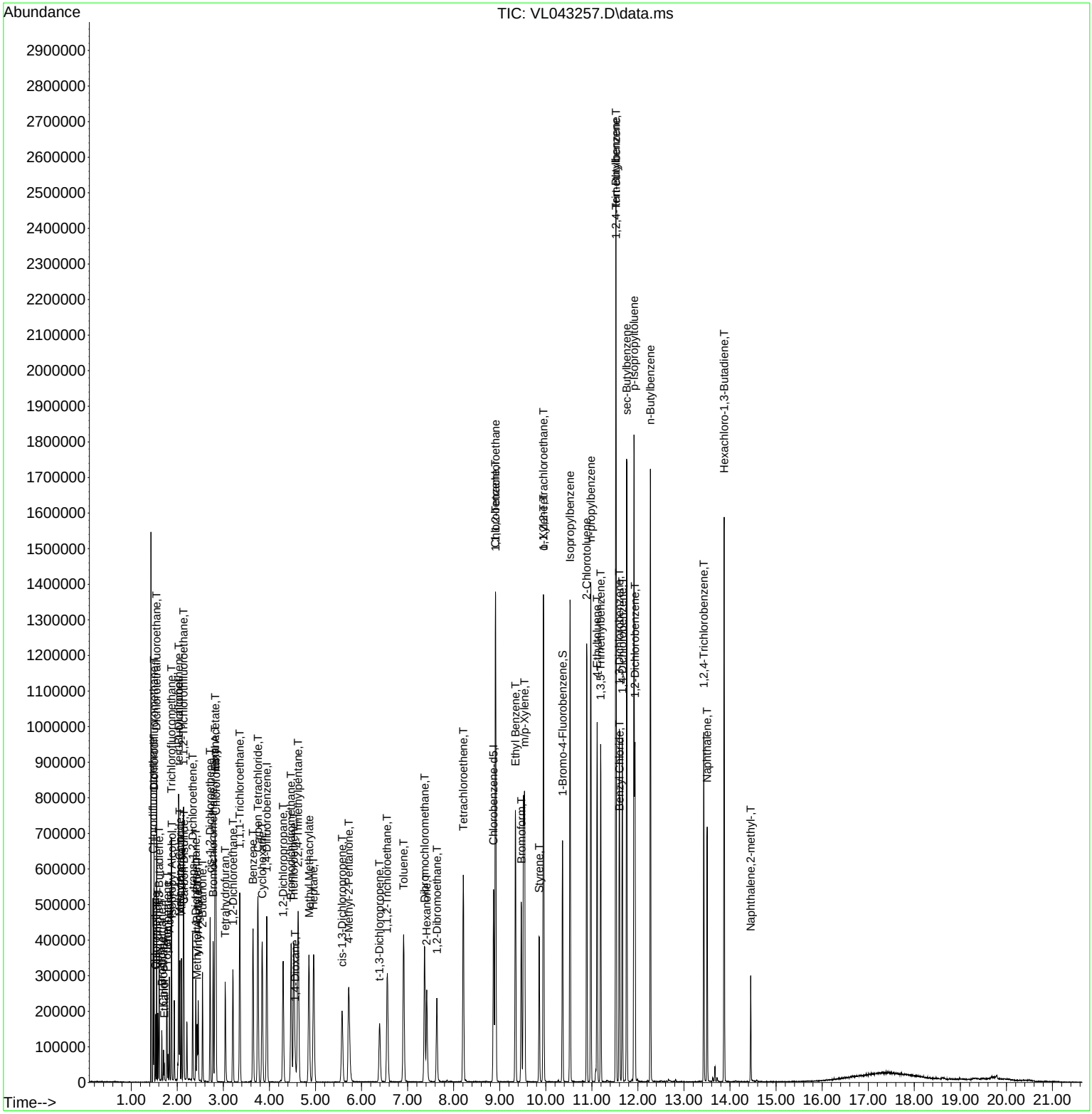
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.577	75	122504	7.989	ppbv		98
47) 1,1,2-Trichloroethane	6.555	97	49025	4.782	ppbv		97
48) Dibromochloromethane	7.370	129	193819	10.997	ppbv		99
49) Bromoform	9.471	173	171644	10.994	ppbv		100
50) 4-Methyl-2-Pentanone	5.723	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	325160	9.459	ppbv	#	21
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

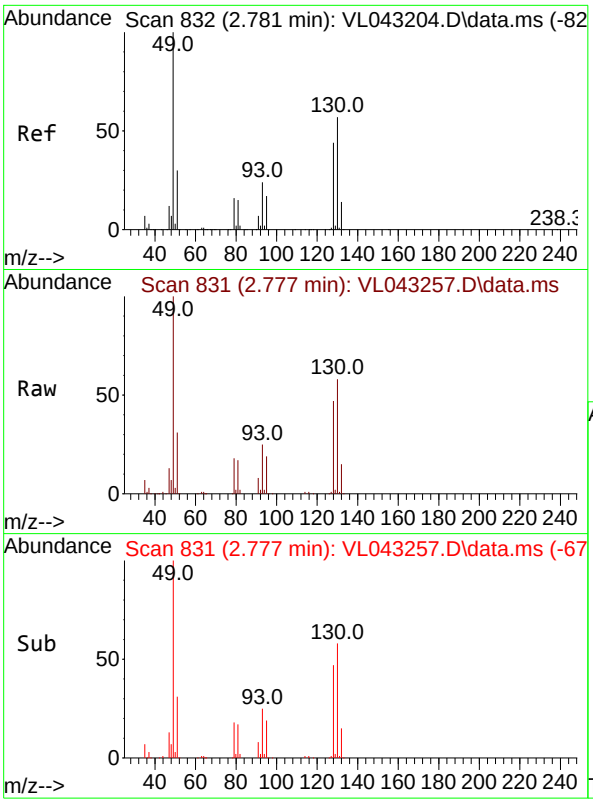
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
MSVOA_L
ClientSampleId :
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



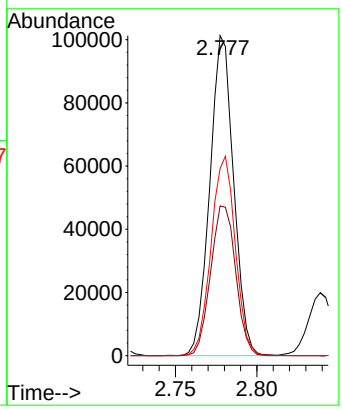


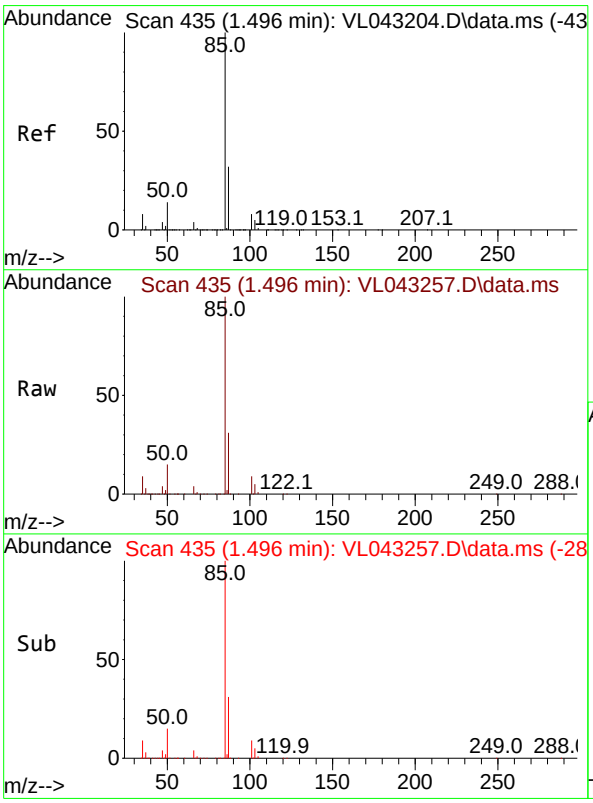
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 102759

Ion	Ratio	Lower	Upper
49	100		
128	49.3	23.0	69.0
130	63.4	29.9	89.7

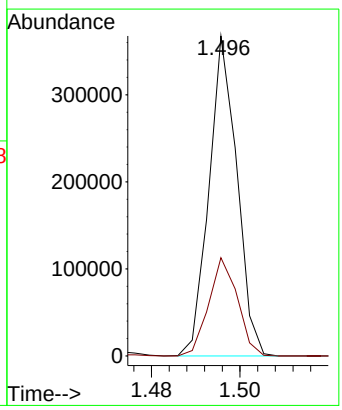


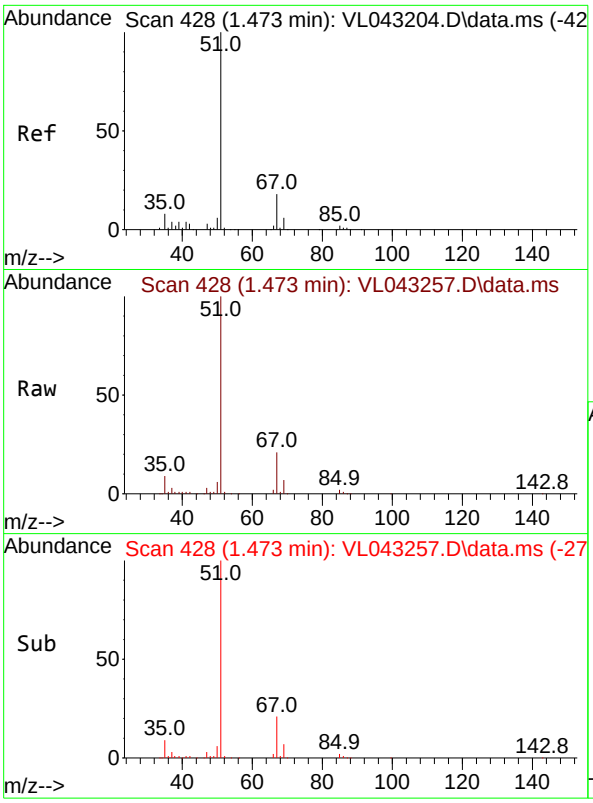


#2
Dichlorodifluoromethane
Concen: 11.121 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 85 Resp: 161177

Ion	Ratio	Lower	Upper
85	100		
87	30.7	25.4	38.2



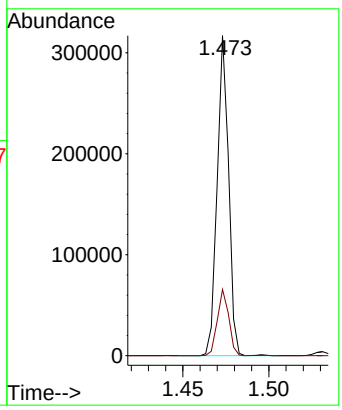


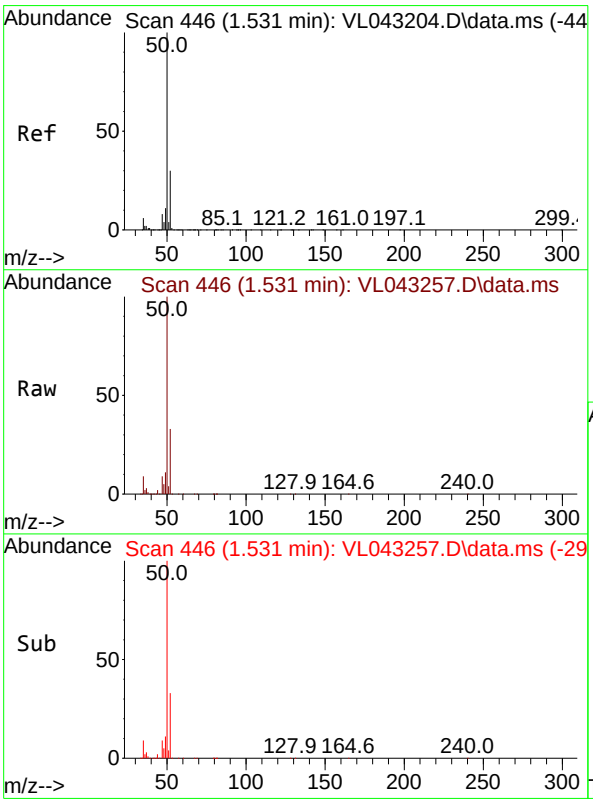
#3
Chlorodifluoromethane
Concen: 10.259 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 146232

Ion	Ratio	Lower	Upper
51	100		
67	20.8	14.9	22.3

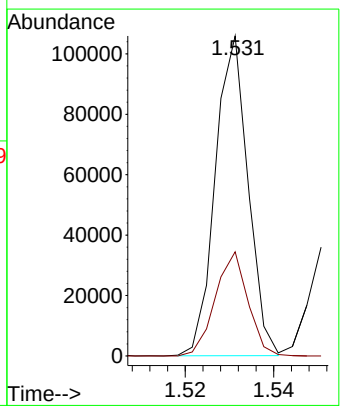


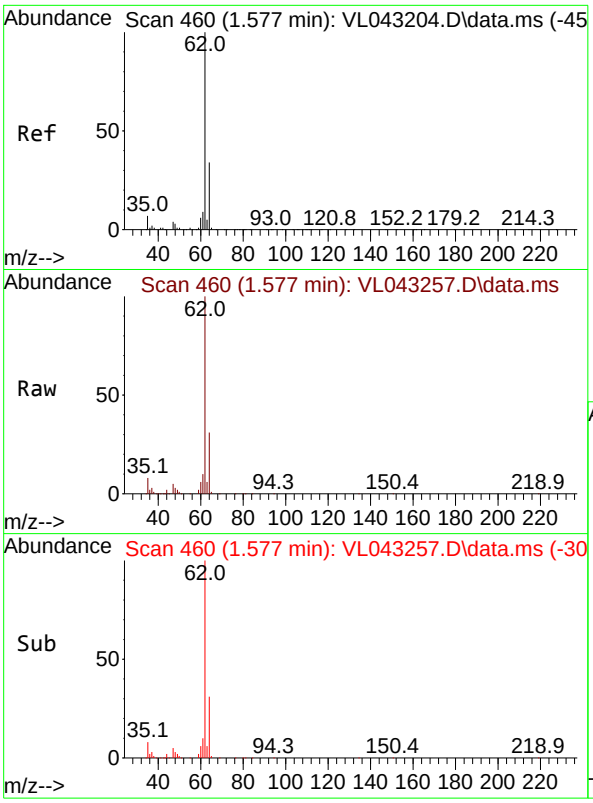


#4
Chloromethane
Concen: 10.035 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 50 Resp: 54380

Ion	Ratio	Lower	Upper
50	100		
52	32.6	24.1	36.1



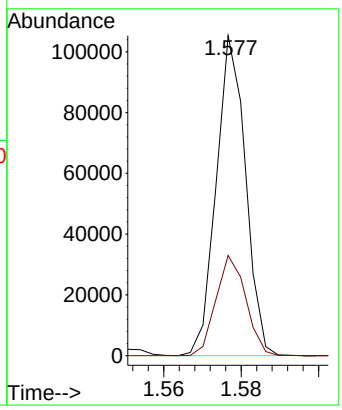


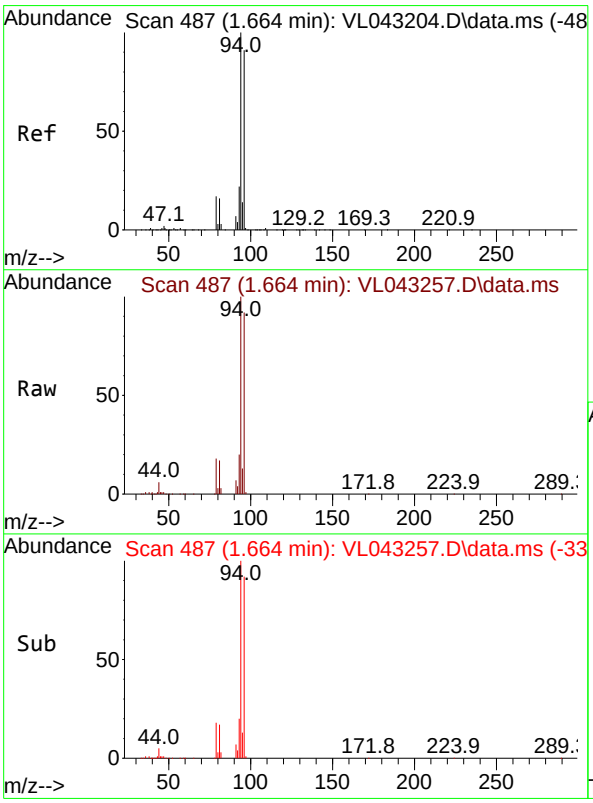
#5
Vinyl Chloride
Concen: 9.322 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 55244

Ion	Ratio	Lower	Upper
62	100		
64	31.3	27.3	40.9

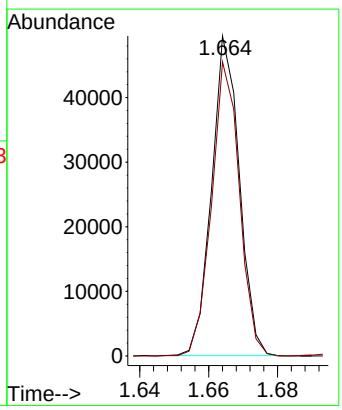


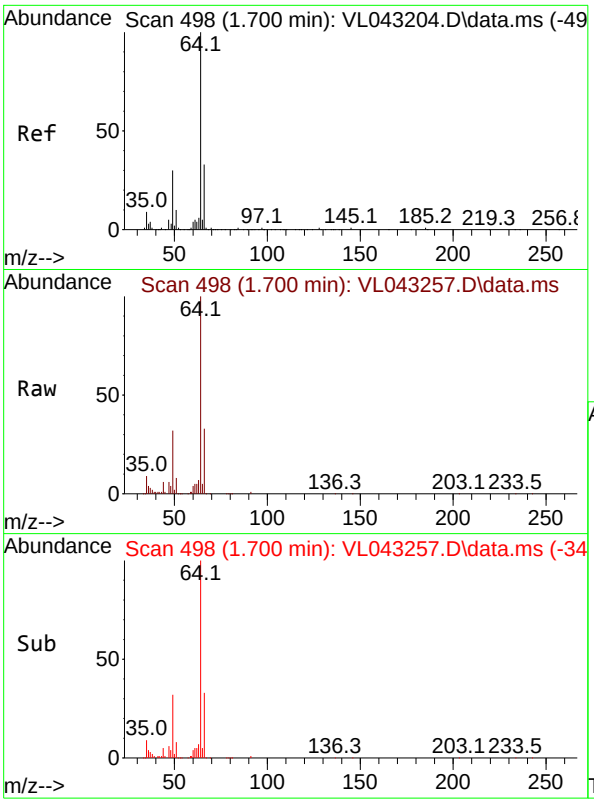


#6
Bromomethane
Concen: 9.621 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 94 Resp: 27639

Ion	Ratio	Lower	Upper
94	100		
96	92.0	72.9	109.3



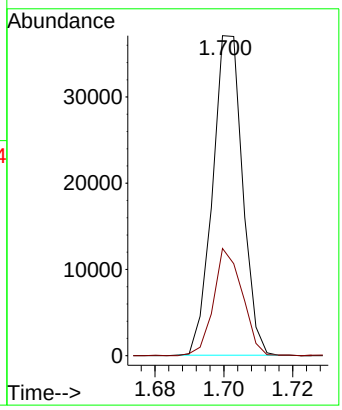


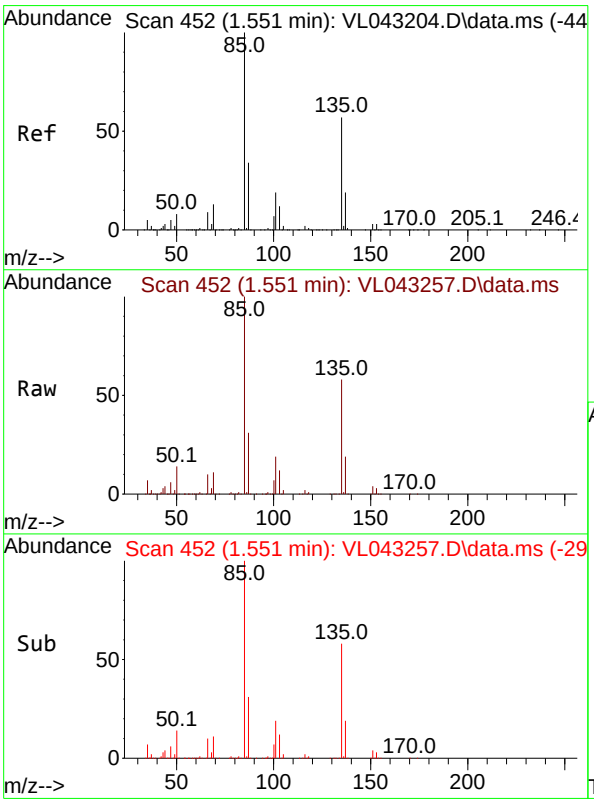
#7
Chloroethane
Concen: 9.698 ppbv
RT: 1.700 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 22384

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.8	40.2

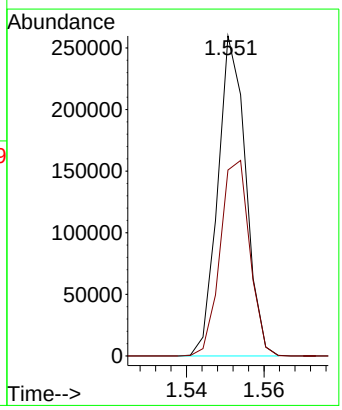


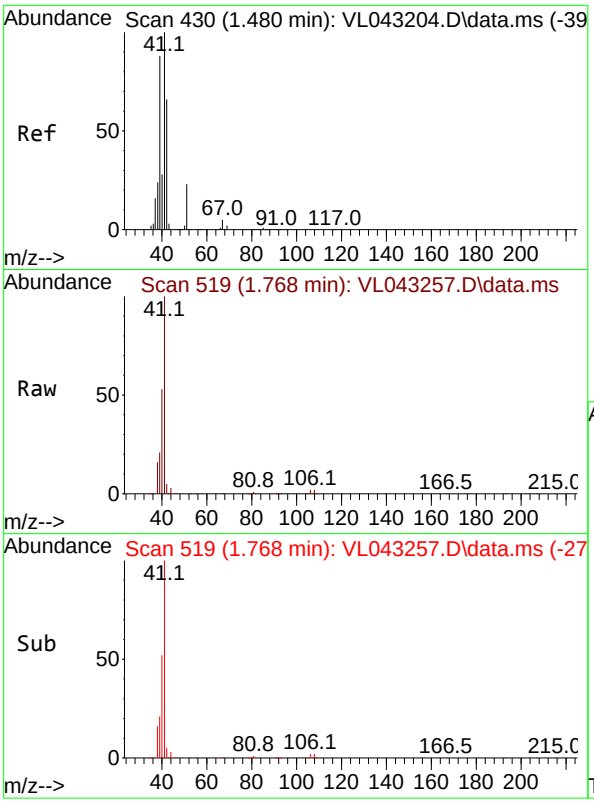


#8
Dichlorotetrafluoroethane
Concen: 10.769 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 85 Resp: 129834

Ion	Ratio	Lower	Upper
85	100		
135	65.0	52.6	79.0



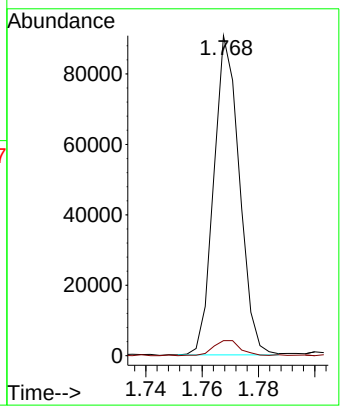


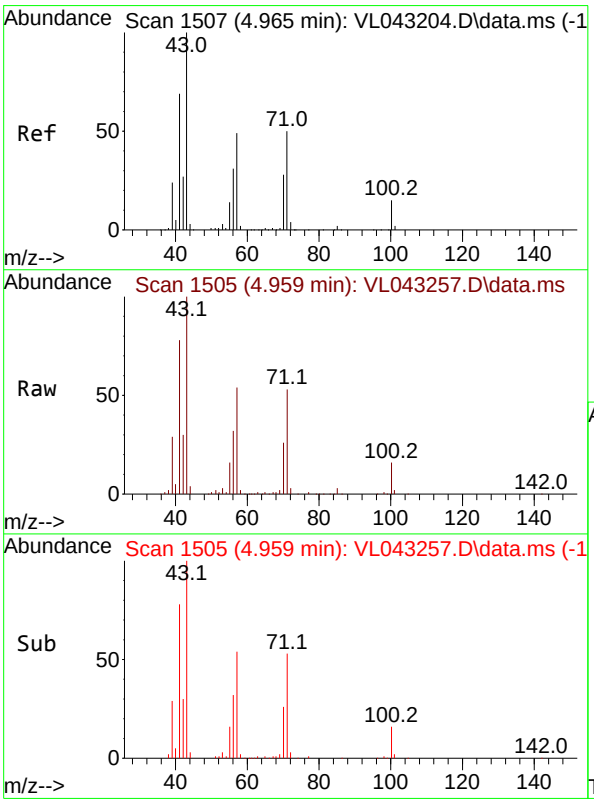
#9
Propene
Concen: 9.463 ppbv
RT: 1.768 min Scan# 5
Delta R.T. 0.288 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 57274

Ion	Ratio	Lower	Upper
41	100		
42	5.3	3.7	5.5

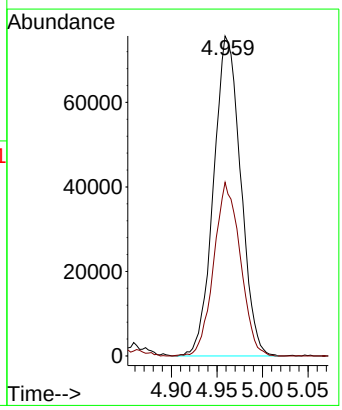


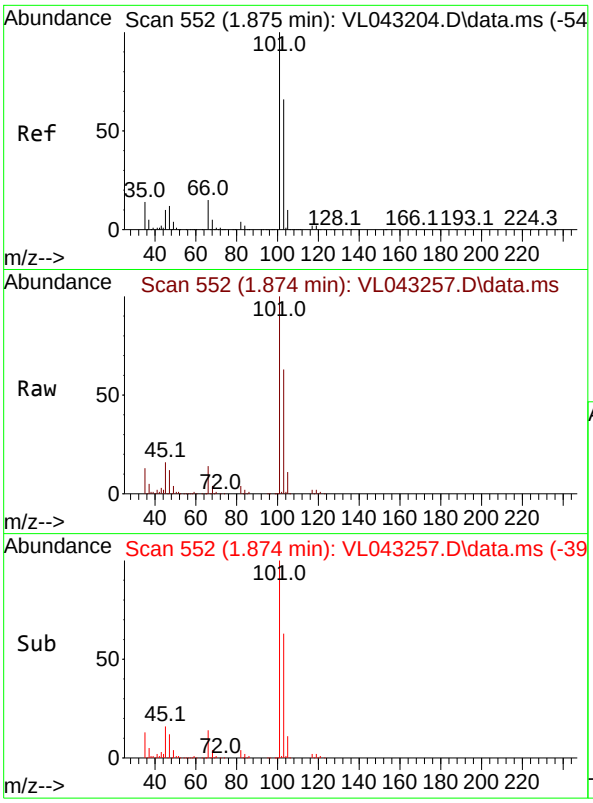


#10
Heptane
Concen: 8.674 ppbv
RT: 4.959 min Scan# 1505
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 43 Resp: 156253

Ion	Ratio	Lower	Upper
43	100		
57	53.2	39.7	59.5



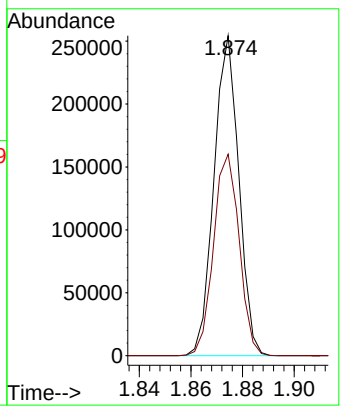


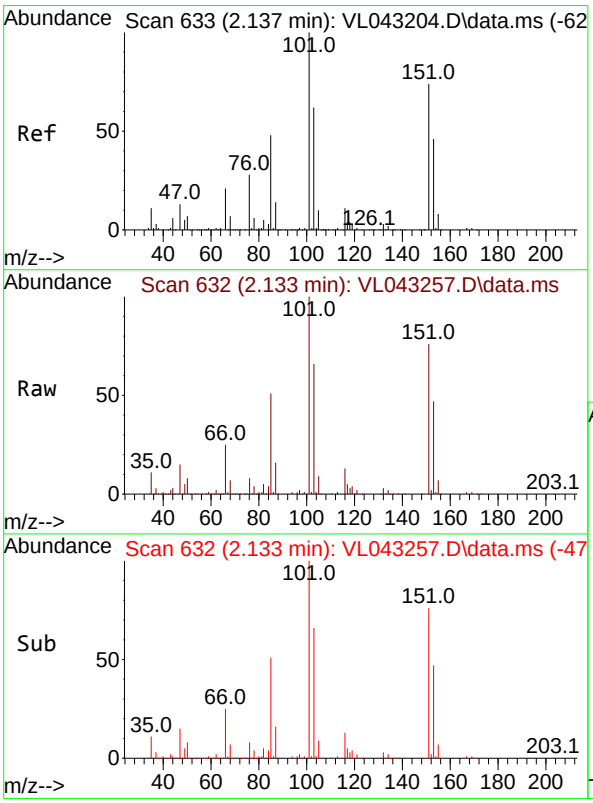
#11
Trichlorofluoromethane
Concen: 12.083 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:101 Resp: 169670

Ion	Ratio	Lower	Upper
101	100		
103	63.0	52.6	79.0

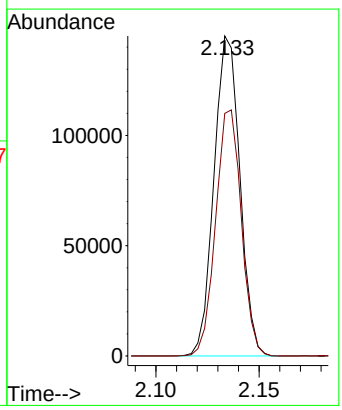


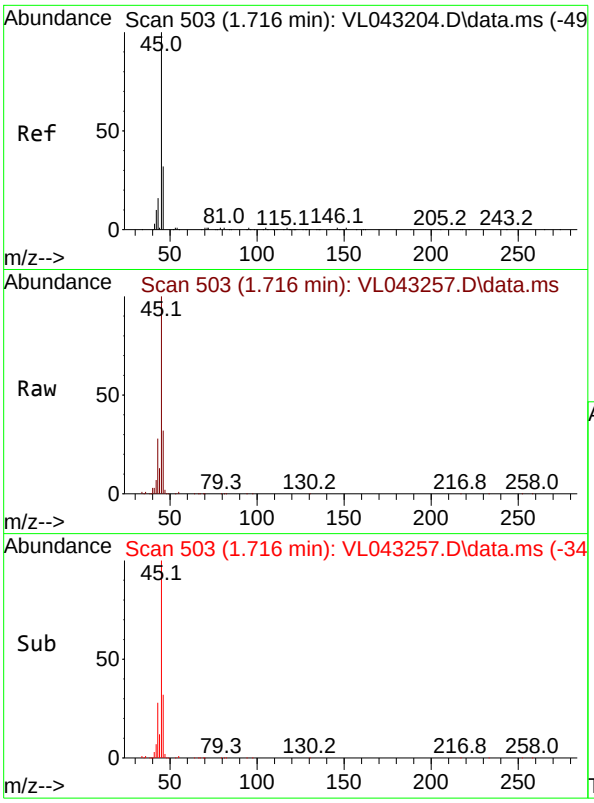


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.553 ppbv
RT: 2.133 min Scan# 632
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:101 Resp: 126654

Ion	Ratio	Lower	Upper
101	100		
151	76.2	59.2	88.8



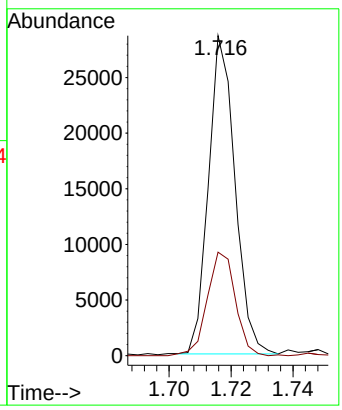


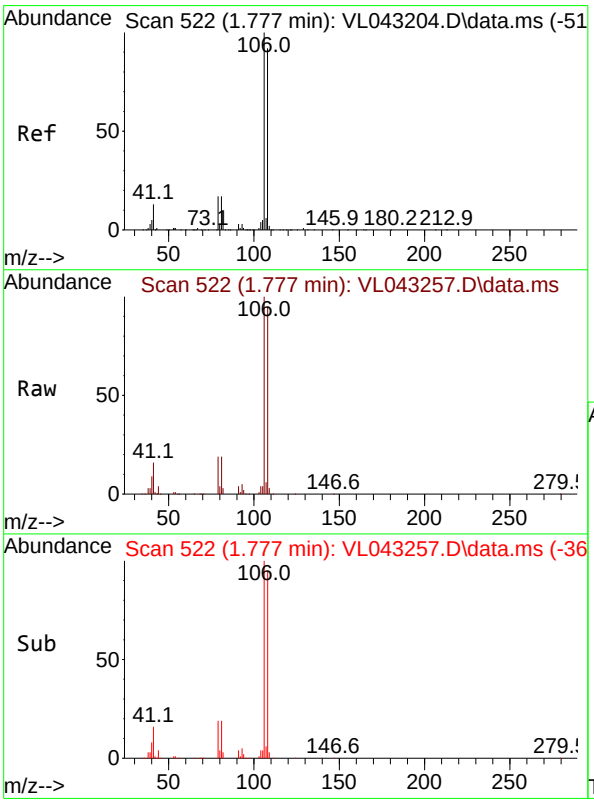
#13
Ethanol
Concen: 7.973 ppbv
RT: 1.716 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 16970

Ion	Ratio	Lower	Upper
45	100		
46	34.5	15.0	59.8

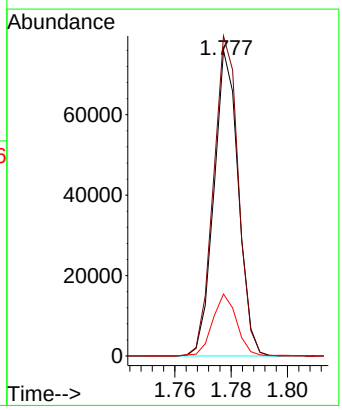


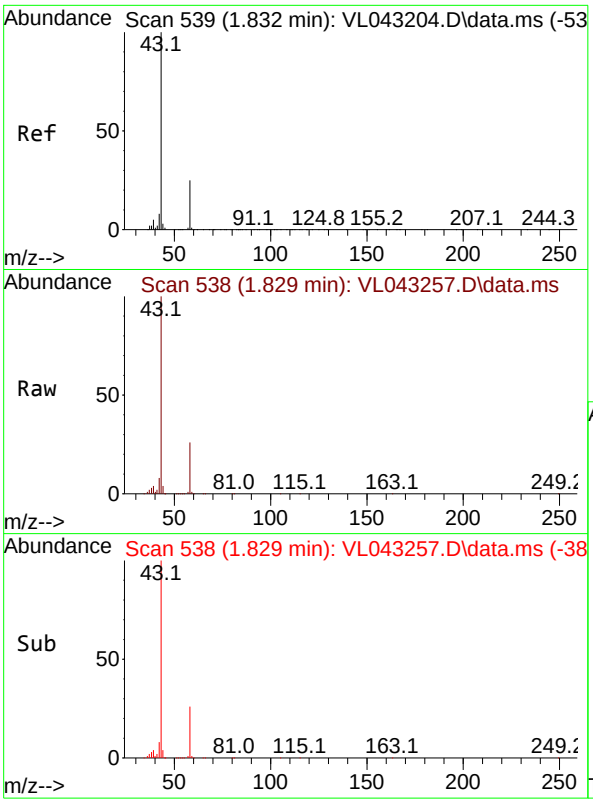


#14
Bromoethene
Concen: 10.897 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:108 Resp: 45797

Ion	Ratio	Lower	Upper
108	100		
106	106.5	88.9	133.3
79	20.6	16.5	24.7



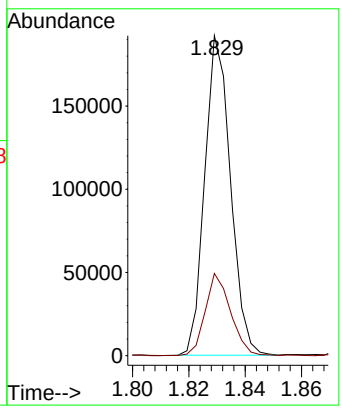


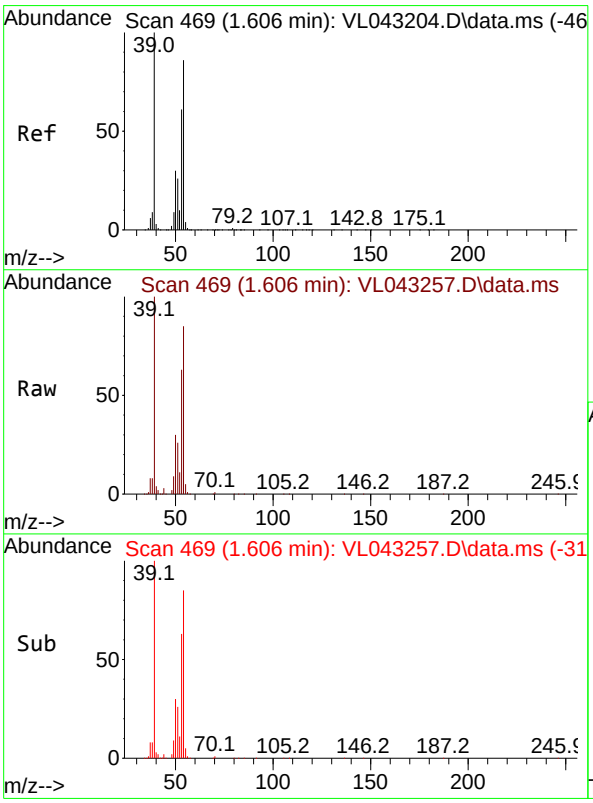
#15
Acetone
Concen: 8.547 ppbv
RT: 1.829 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 122027

Ion	Ratio	Lower	Upper
43	100		
58	25.6	20.7	31.1

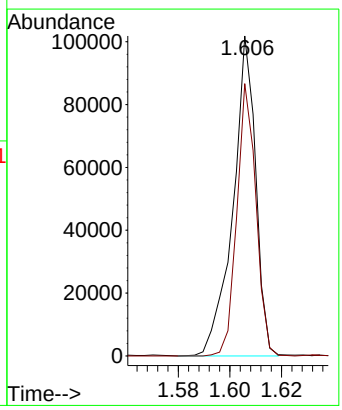


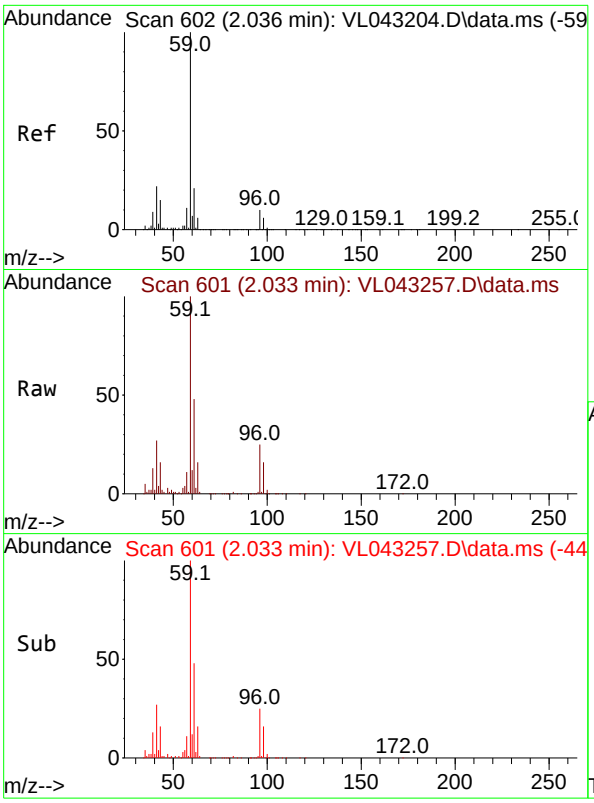


#16
1,3-Butadiene
Concen: 9.794 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 39 Resp: 62334

Ion	Ratio	Lower	Upper
39	100		
54	71.9	59.4	89.2



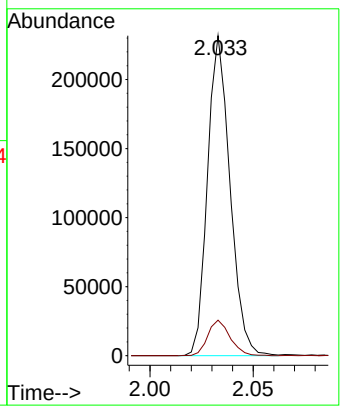


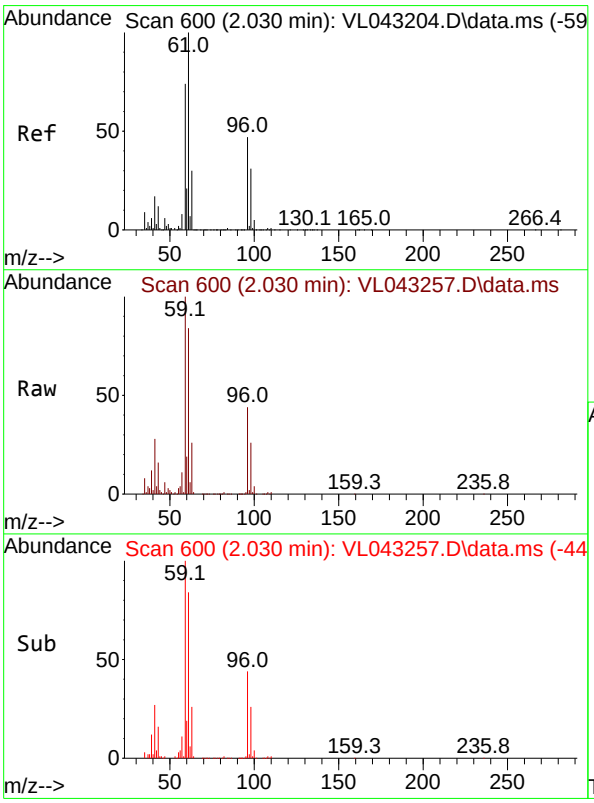
#17
tert-Butyl alcohol
Concen: 9.372 ppbv
RT: 2.033 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 175626

Ion	Ratio	Lower	Upper
59	100		
57	11.1	9.0	13.4

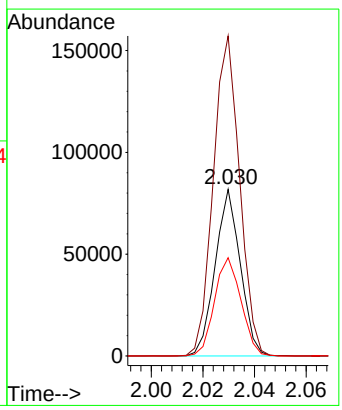


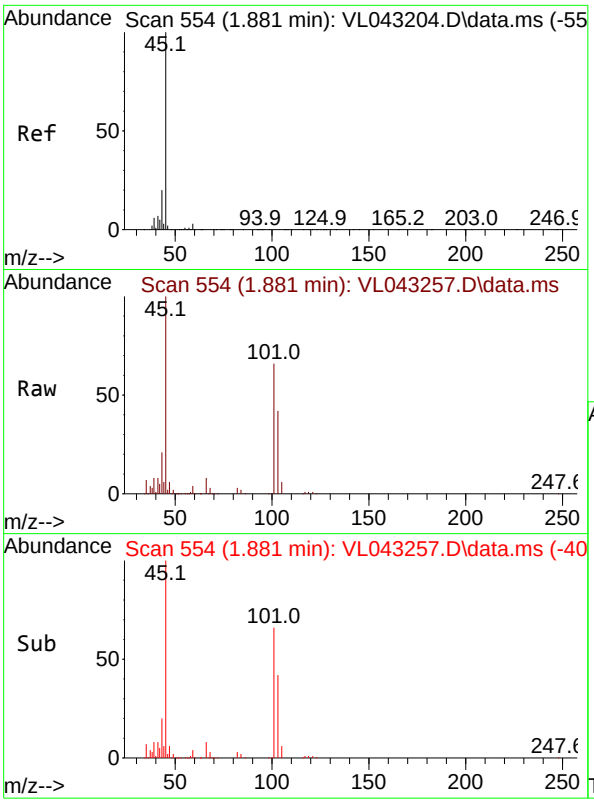


#18
1,1-Dichloroethene
Concen: 10.857 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 96 Resp: 55419

Ion	Ratio	Lower	Upper
96	100		
61	192.0	170.6	255.8
98	58.9	52.2	78.4



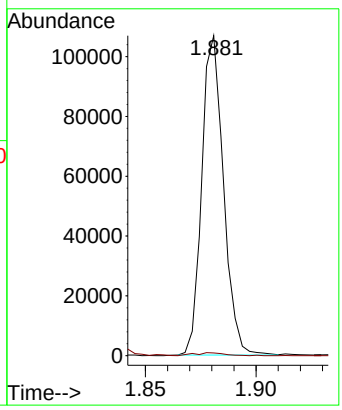


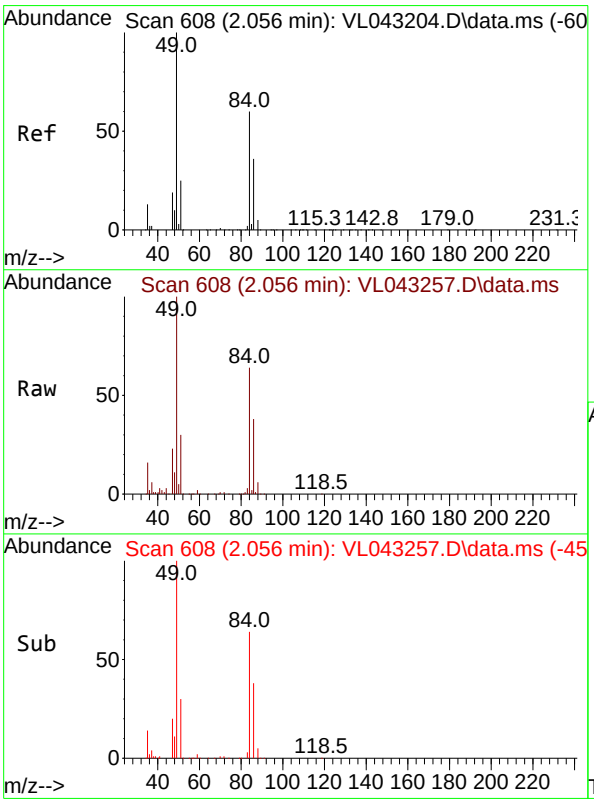
#19
Isopropyl Alcohol
Concen: 8.996 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 72573

Ion	Ratio	Lower	Upper
45	100		
58	43.1	31.3	46.9

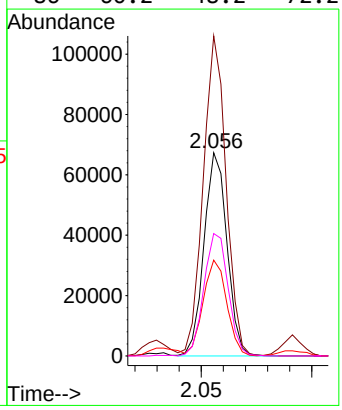


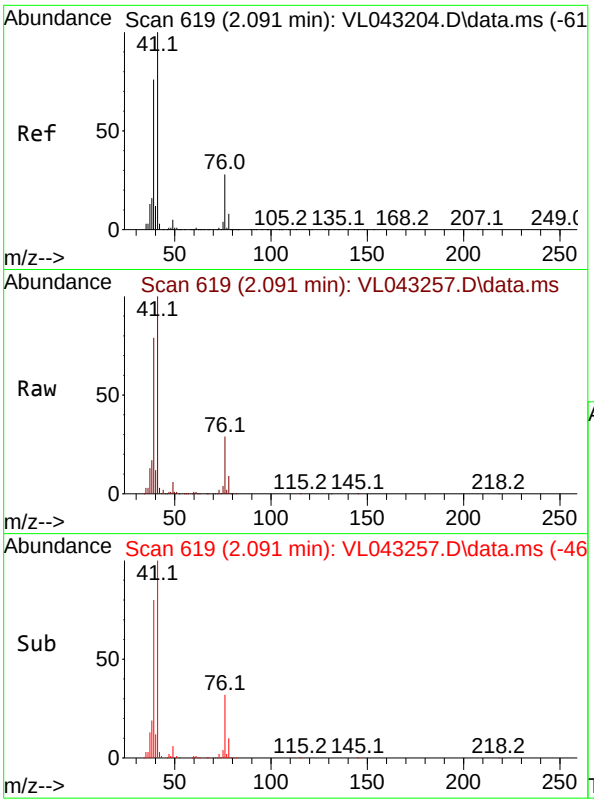


#20
Methylene Chloride
Concen: 11.659 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 84 Resp: 48499

Ion	Ratio	Lower	Upper
84	100		
49	155.9	132.9	199.3
51	45.7	34.8	52.2
86	60.2	48.2	72.2



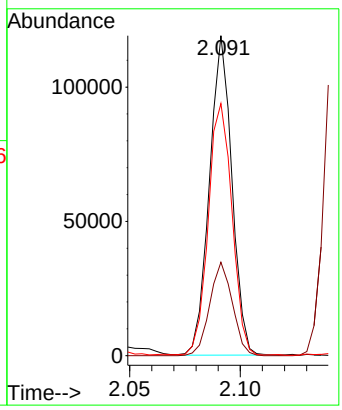


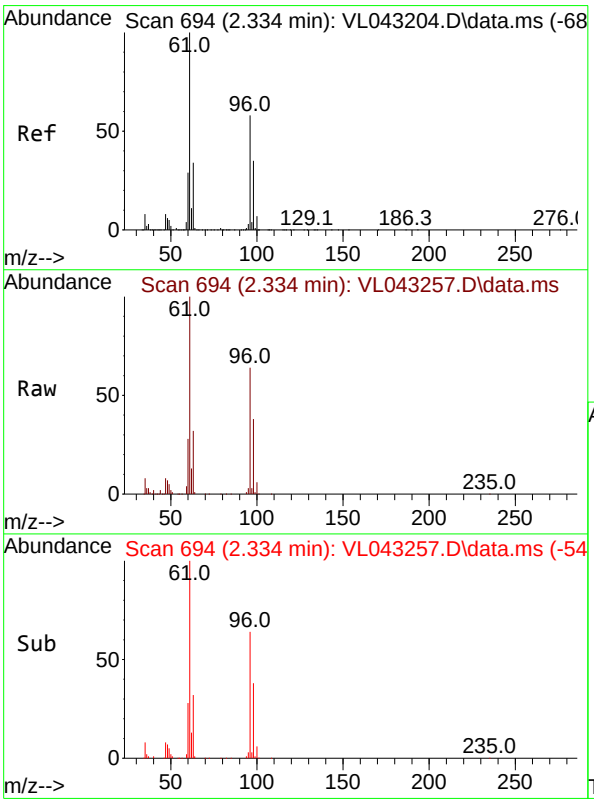
#21
Allyl Chloride
Concen: 8.720 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 83761

Ion	Ratio	Lower	Upper
41	100		
76	29.6	22.1	33.1
39	83.6	61.0	91.4

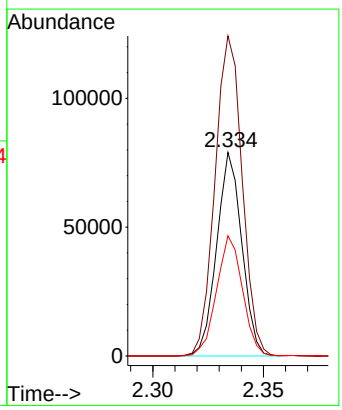


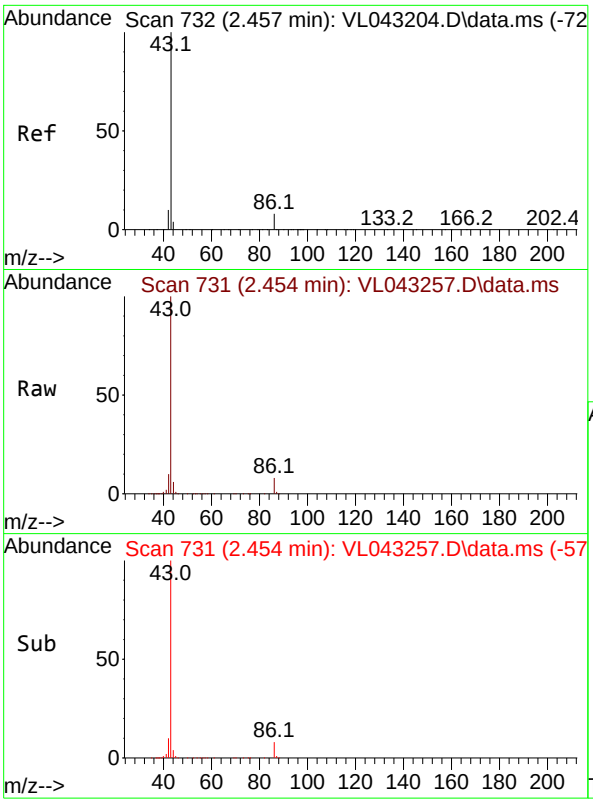


#22
trans-1,2-Dichloroethene
Concen: 10.711 ppbv
RT: 2.334 min Scan# 694
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 96 Resp: 62490

Ion	Ratio	Lower	Upper
96	100		
61	157.2	139.0	208.6
98	59.1	49.4	74.2



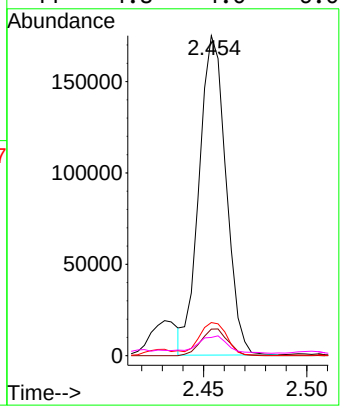


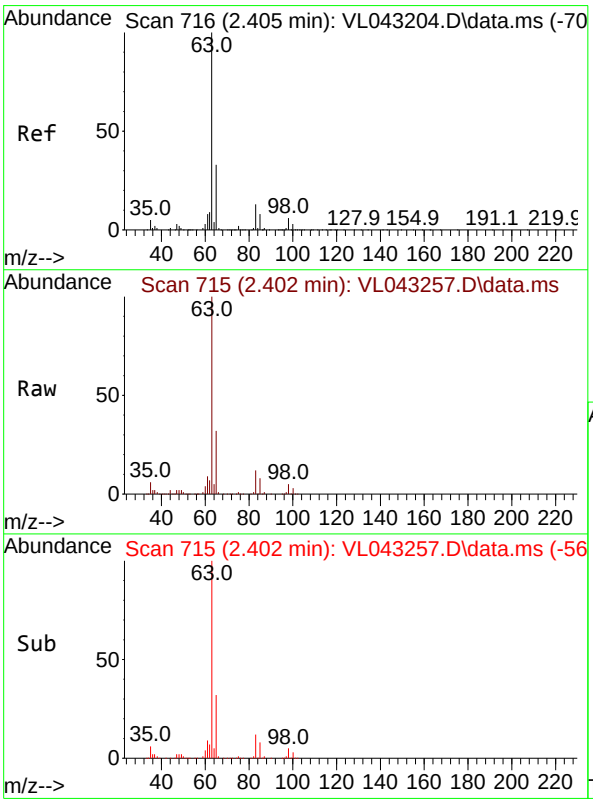
#23
Vinyl Acetate
Concen: 9.148 ppbv
RT: 2.454 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 157670

Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.2	9.2
42	10.2	8.0	12.0
44	4.8	4.0	6.0

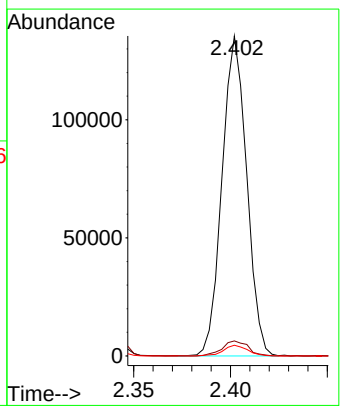


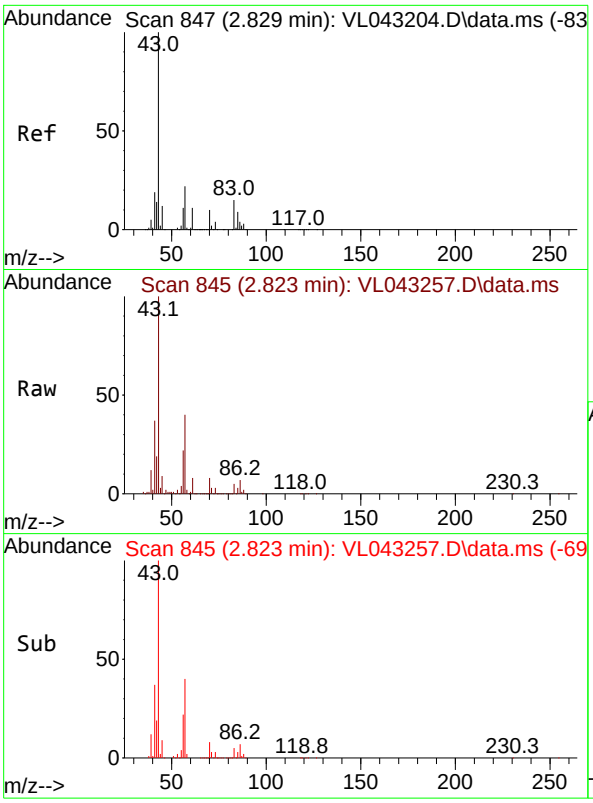


#24
1,1-Dichloroethane
Concen: 10.625 ppbv
RT: 2.402 min Scan# 715
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 63 Resp: 119663

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.8	8.4
100	3.4	1.3	3.9



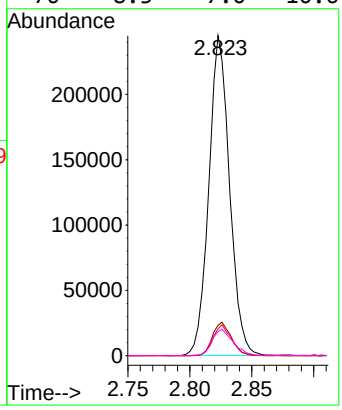


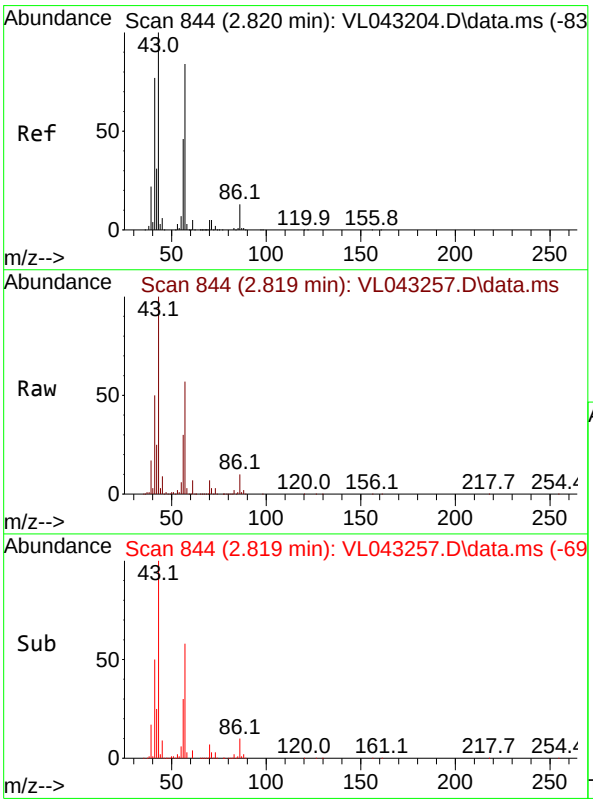
#25
Ethyl Acetate
Concen: 9.287 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 285972

Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	8.7	7.0	10.4
70	8.3	7.0	10.6

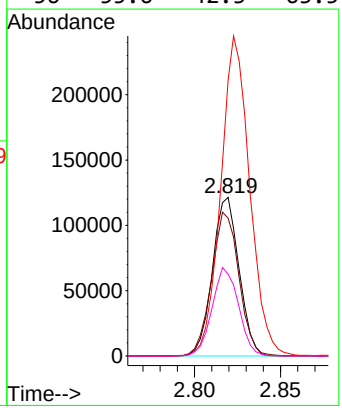


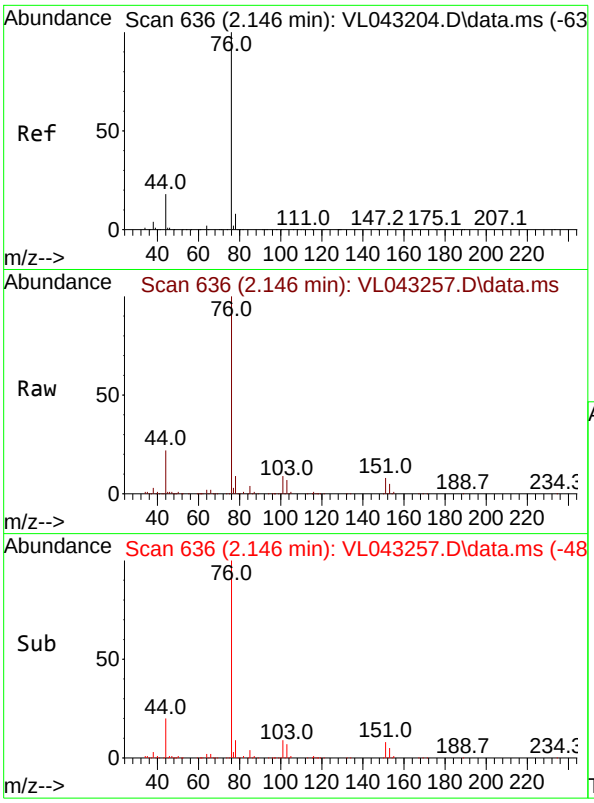


#26
Hexane
Concen: 9.630 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 57 Resp: 130004

Ion	Ratio	Lower	Upper
57	100		
41	94.0	74.6	111.8
43	220.7	179.0	268.4
56	55.6	42.3	63.5



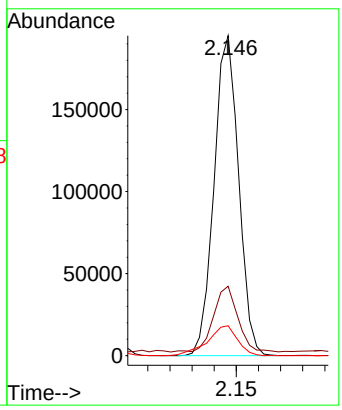


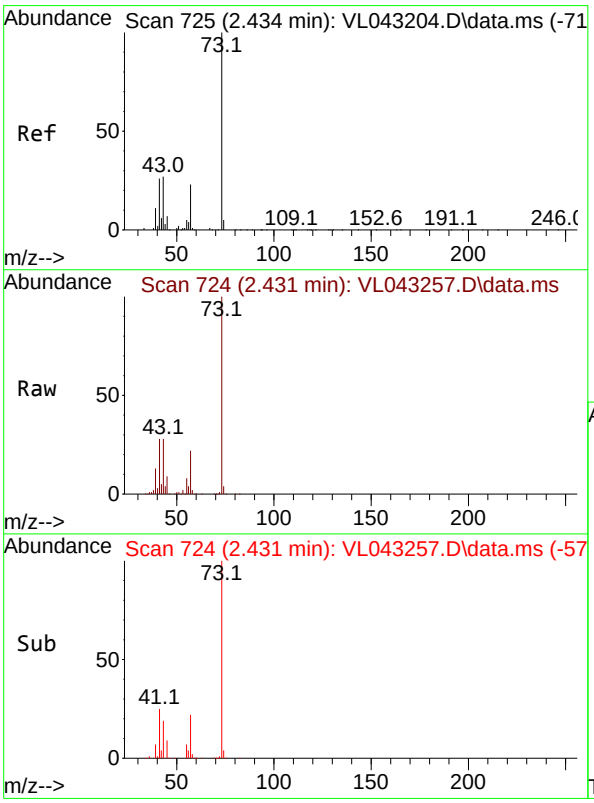
#27
Carbon Disulfide
Concen: 10.920 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 76 Resp: 150498

Ion	Ratio	Lower	Upper
76	100		
44	20.6	16.1	24.1
78	11.4	9.6	14.4

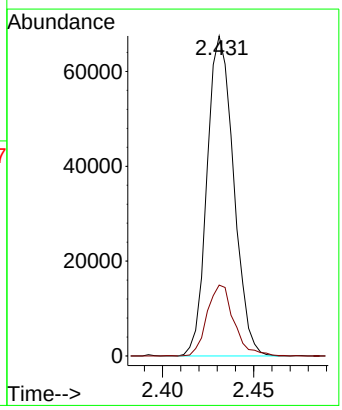


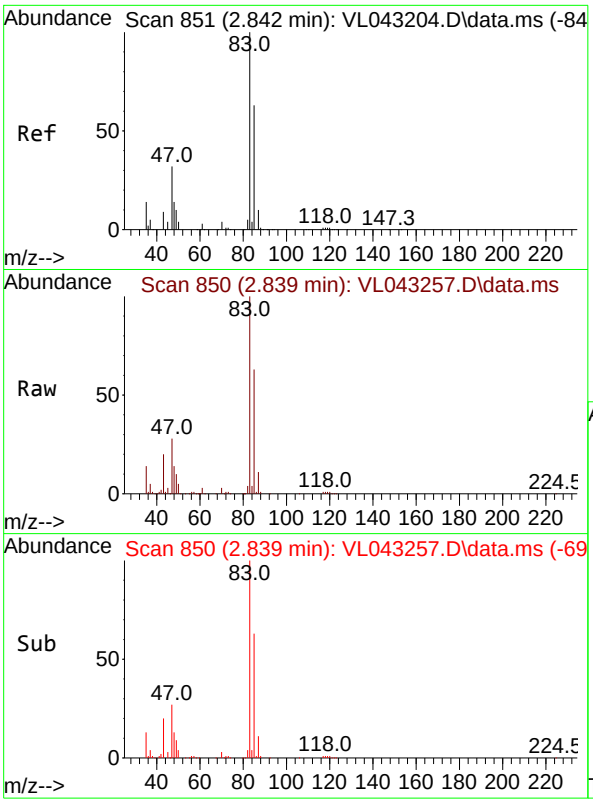


#28
Methyl tert-Butyl Ether
Concen: 10.352 ppbv
RT: 2.431 min Scan# 724
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 73 Resp: 68600

Ion	Ratio	Lower	Upper
73	100		
57	22.4	19.8	29.8



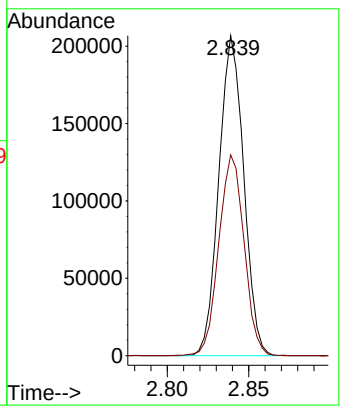


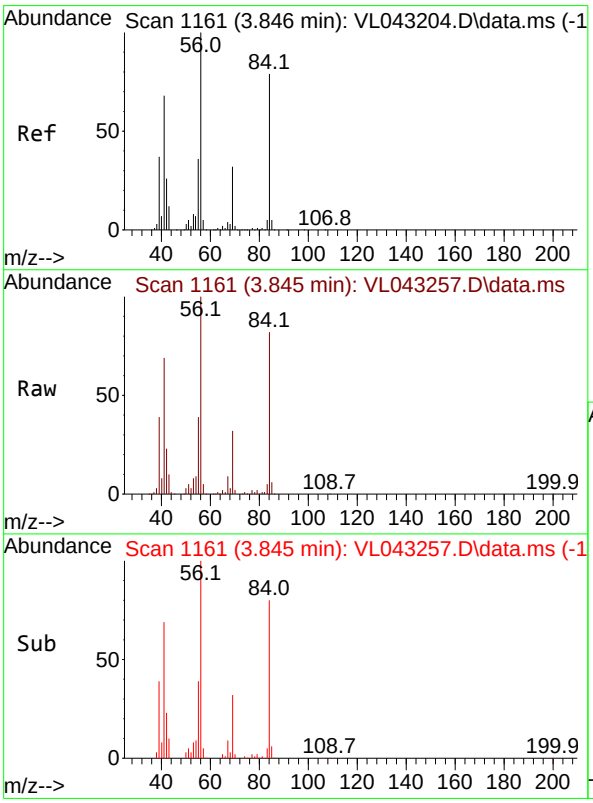
#29
Chloroform
Concen: 11.429 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 219297

Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.5	75.7

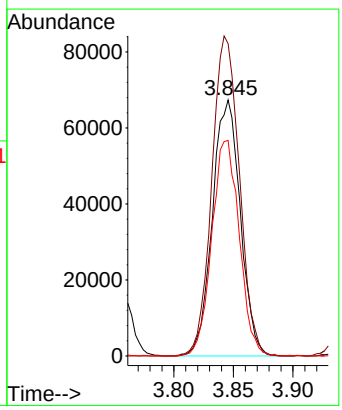


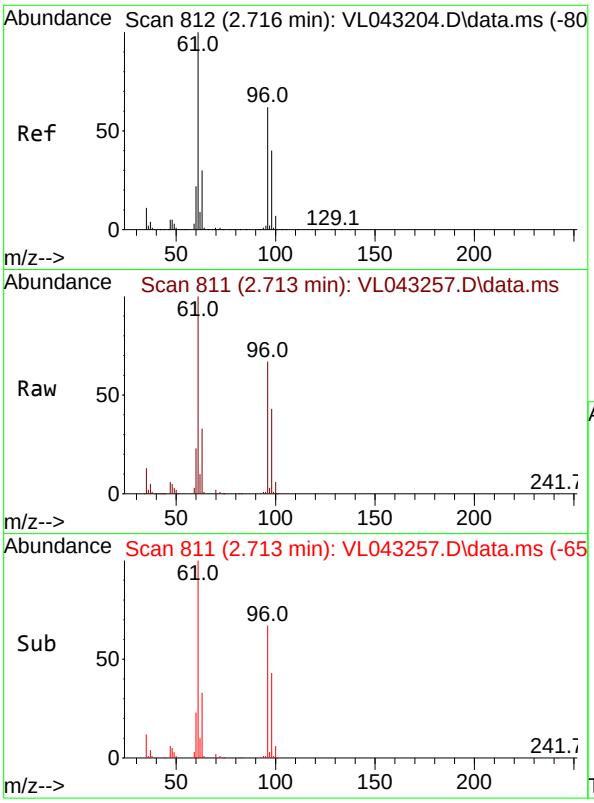


#30
Cyclohexane
Concen: 9.685 ppbv
RT: 3.845 min Scan# 1161
Delta R.T. -0.000 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 84 Resp: 109617

Ion	Ratio	Lower	Upper
84	100		
56	123.4	104.7	157.1
41	82.9	69.0	103.6



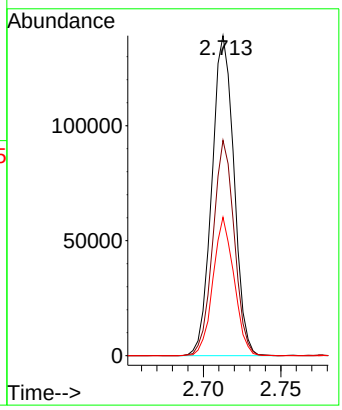


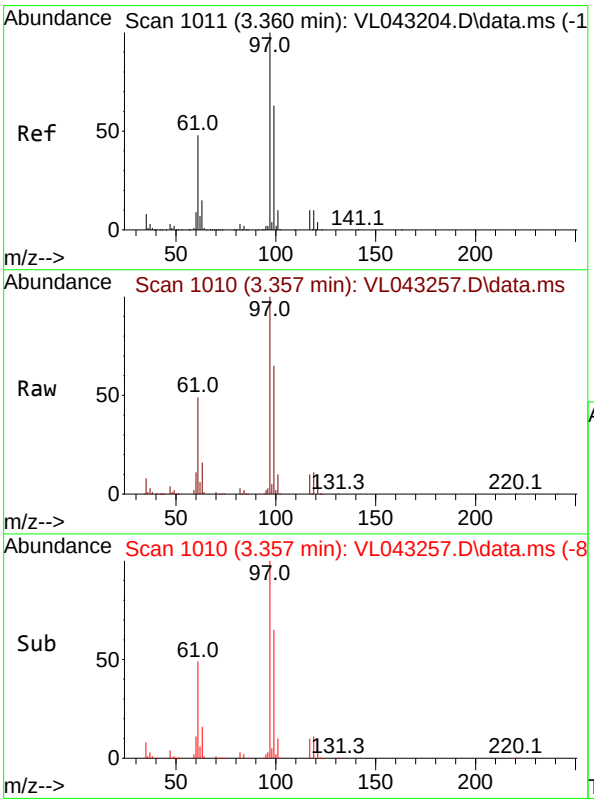
#31
cis-1,2-Dichloroethene
Concen: 10.277 ppbv
RT: 2.713 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 61 Resp: 137895

Ion	Ratio	Lower	Upper
61	100		
96	67.3	49.3	73.9
98	43.2	32.1	48.1

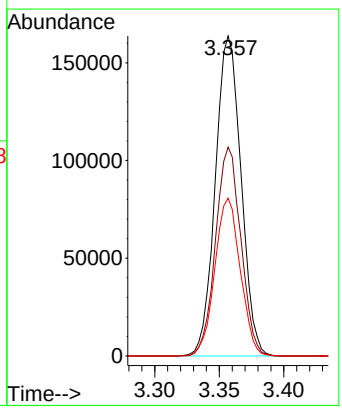


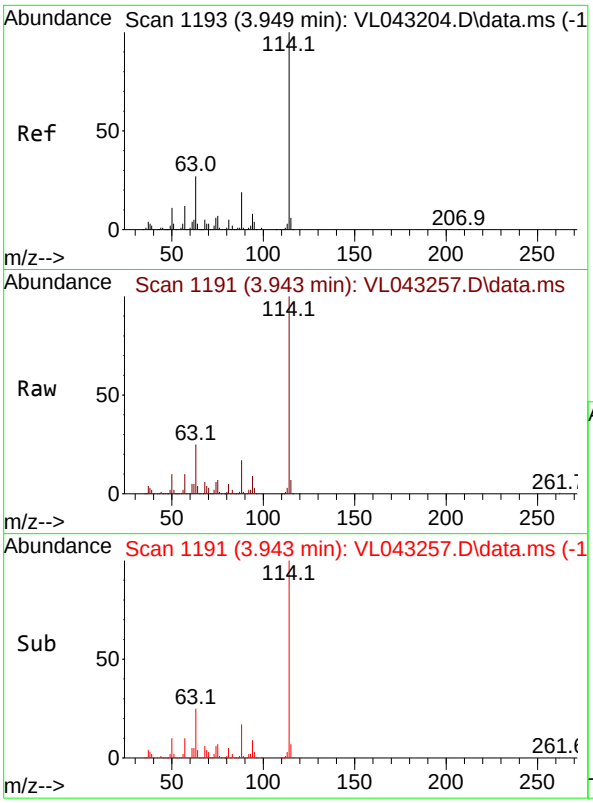


#32
1,1,1-Trichloroethane
Concen: 11.079 ppbv
RT: 3.357 min Scan# 1010
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 97 Resp: 226600

Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.3	75.5
61	48.8	38.9	58.3



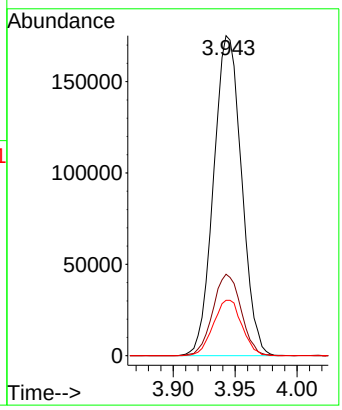


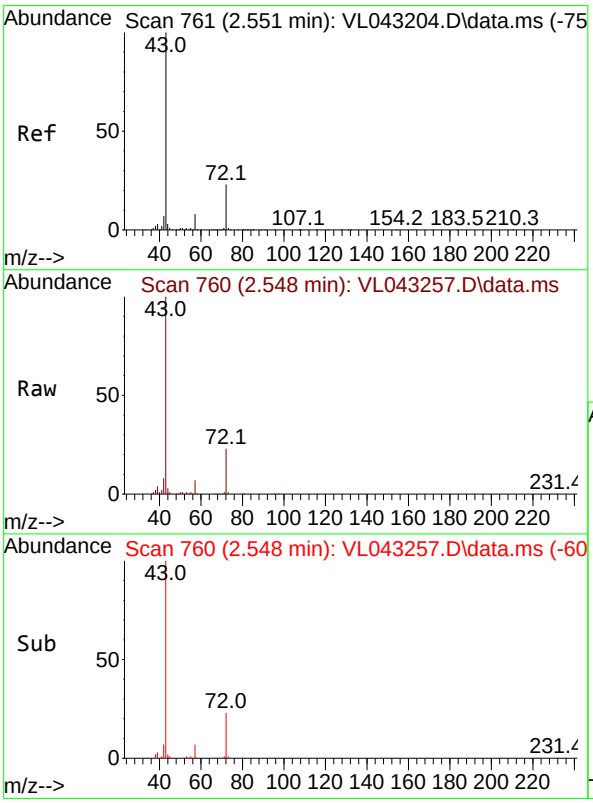
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:114 Resp: 275595

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

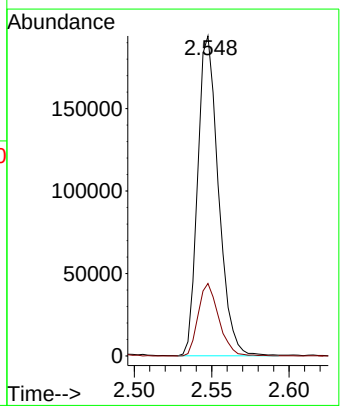


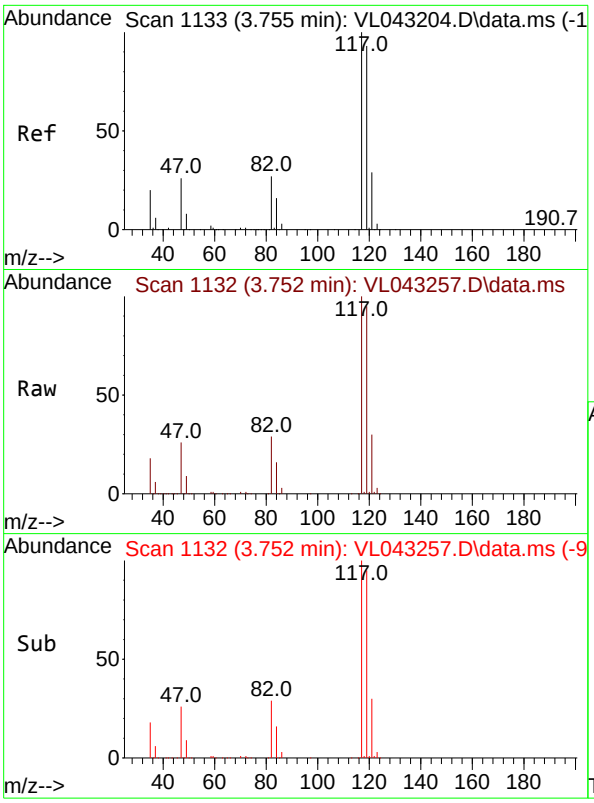


#34
2-Butanone
Concen: 9.303 ppbv
RT: 2.548 min Scan# 760
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 43 Resp: 180979

Ion	Ratio	Lower	Upper
43	100		
72	22.6	18.1	27.1



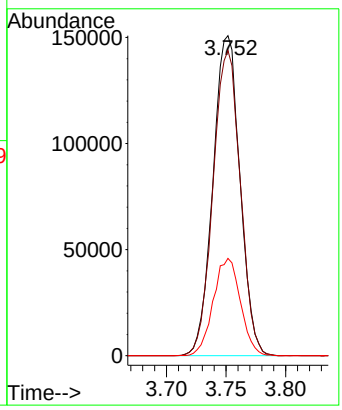


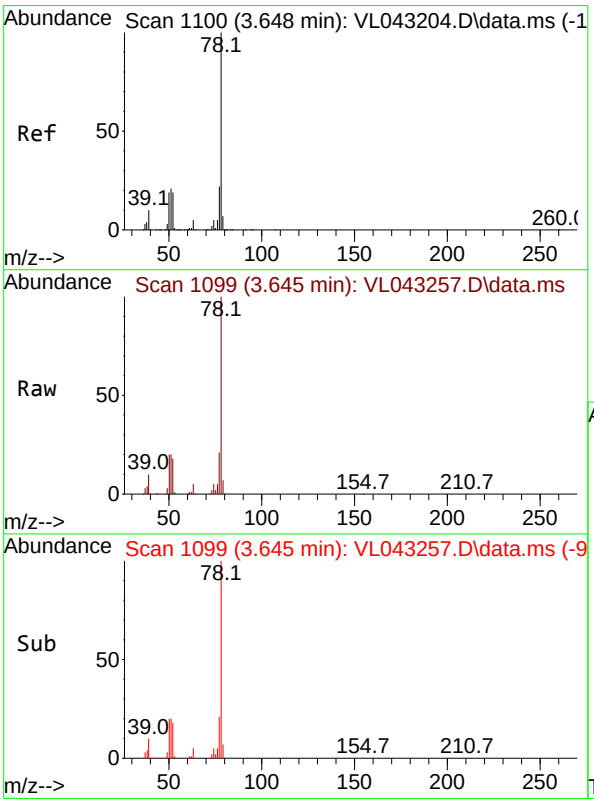
#35
Carbon Tetrachloride
Concen: 11.356 ppbv
RT: 3.752 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 237548

Ion	Ratio	Lower	Upper
117	100		
119	95.3	74.6	112.0
121	30.4	23.2	34.8

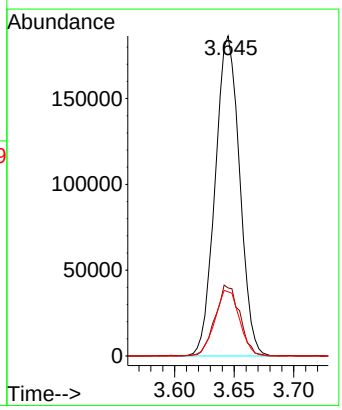


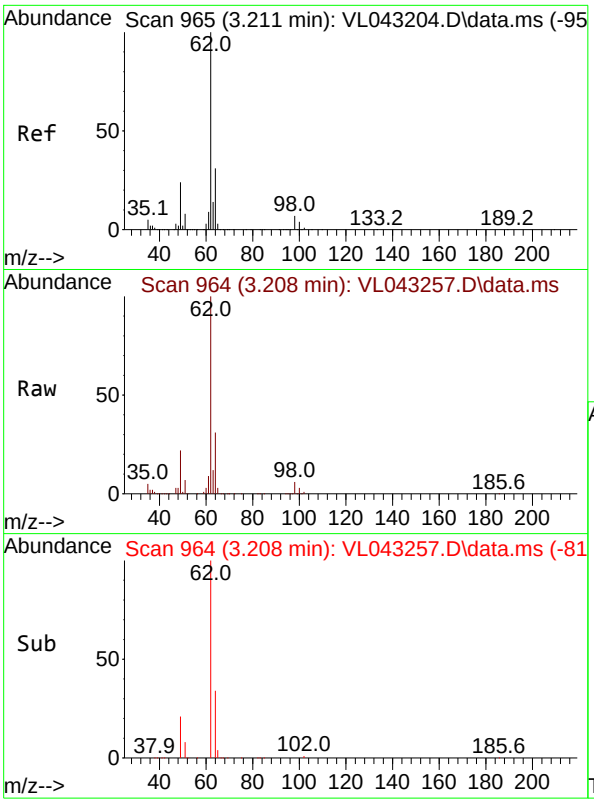


#36
Benzene
Concen: 10.078 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 78 Resp: 265981

Ion	Ratio	Lower	Upper
78	100		
77	21.3	17.5	26.3
50	20.0	15.5	23.3



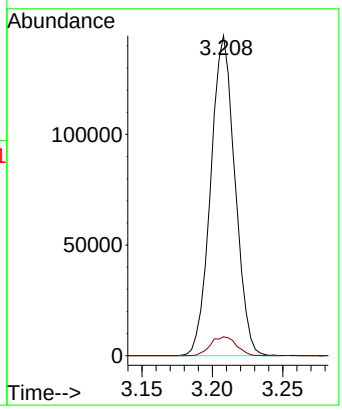


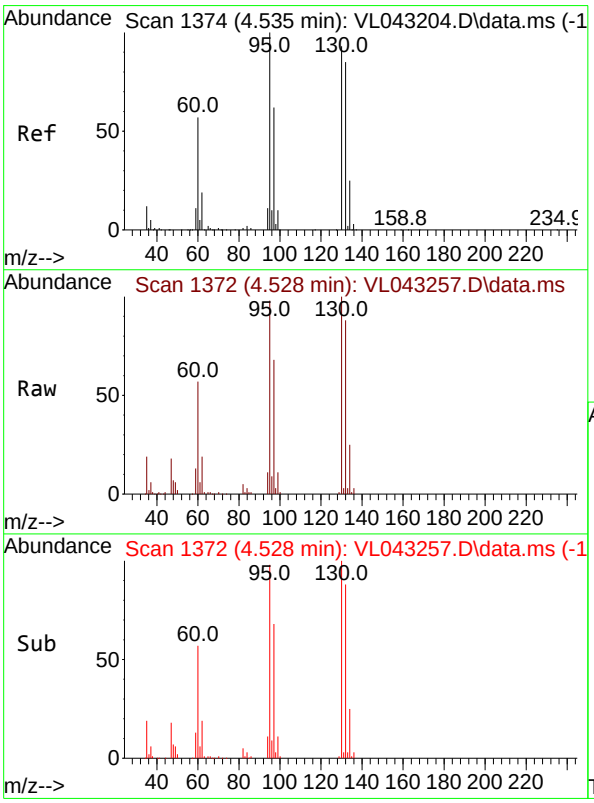
#37
1,2-Dichloroethane
Concen: 11.229 ppbv
RT: 3.208 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 173345

Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.5	8.3

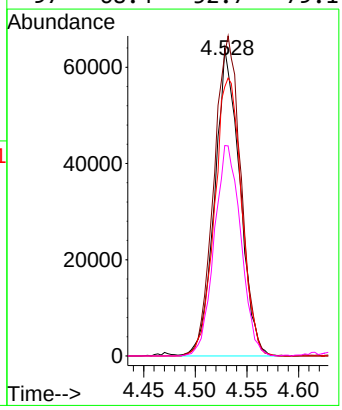


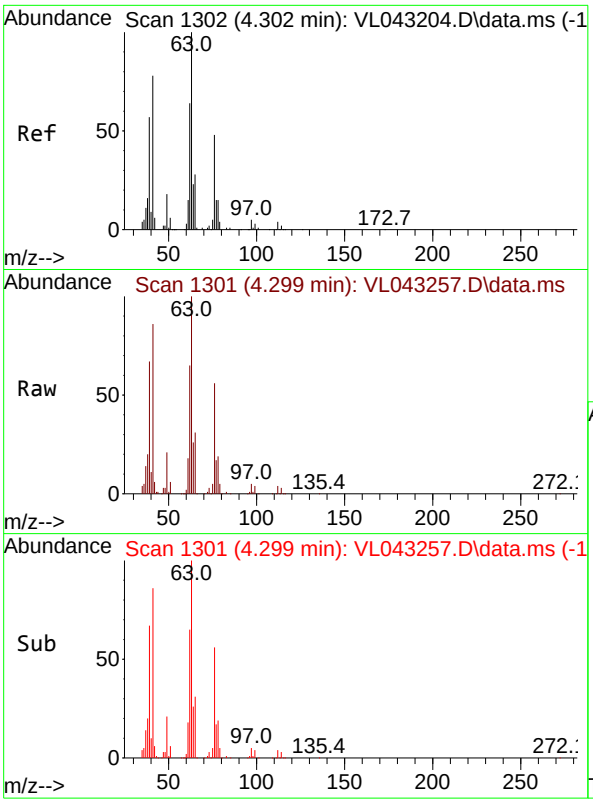


#38
Trichloroethene
Concen: 10.447 ppbv
RT: 4.528 min Scan# 1372
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:130 Resp: 107877

Ion	Ratio	Lower	Upper
130	100		
95	98.2	85.7	128.5
132	87.6	73.4	110.0
97	68.4	52.7	79.1



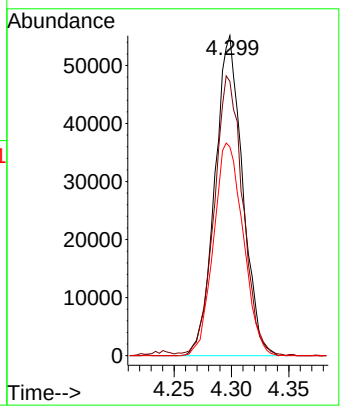


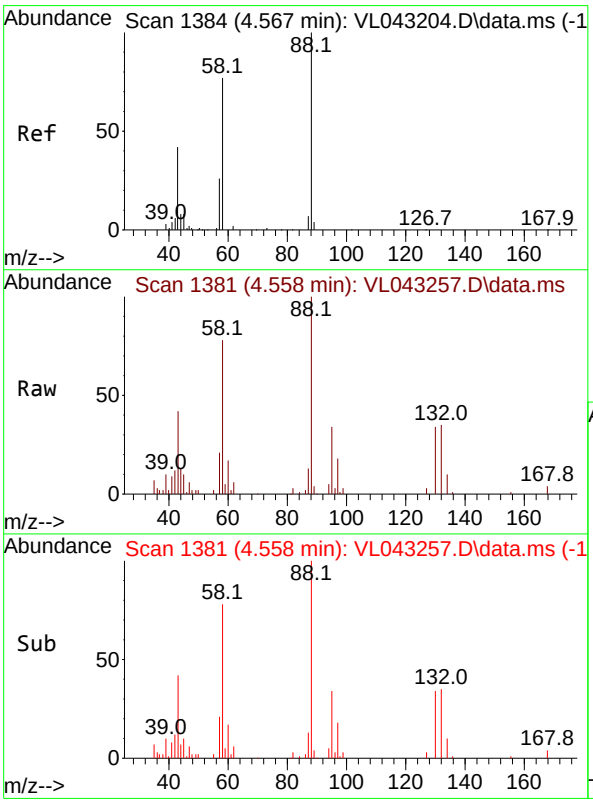
#39
1,2-Dichloropropane
Concen: 9.571 ppbv
RT: 4.299 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 63 Resp: 92453

Ion	Ratio	Lower	Upper
63	100		
41	84.9	62.6	93.8
62	65.3	51.0	76.6

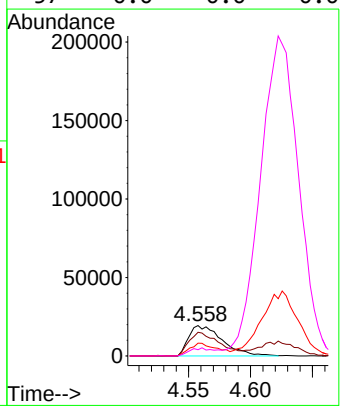


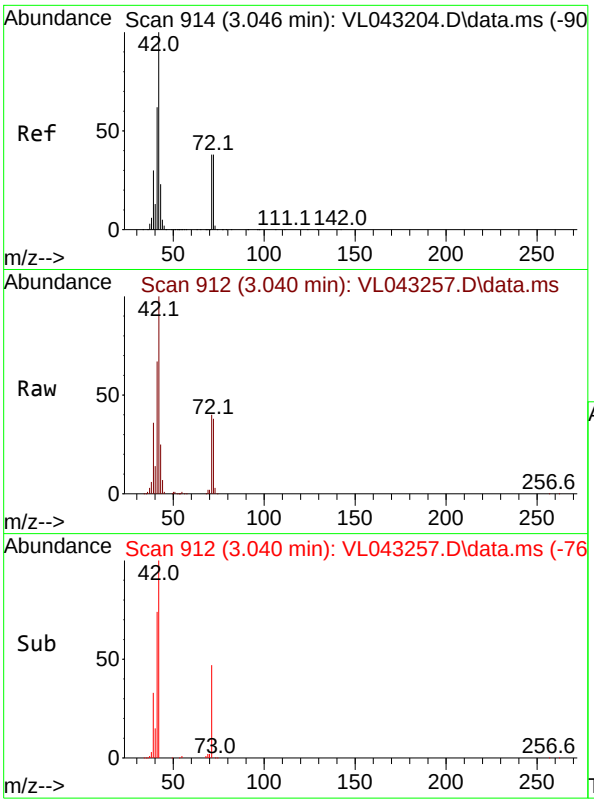


#40
1,4-Dioxane
Concen: 8.418 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. -0.010 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 88 Resp: 36555

Ion	Ratio	Lower	Upper
88	100		
58	71.5	63.0	94.6
43	35.1	32.5	48.7
57	0.0	0.0	0.0



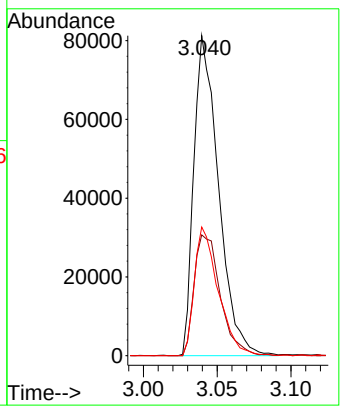


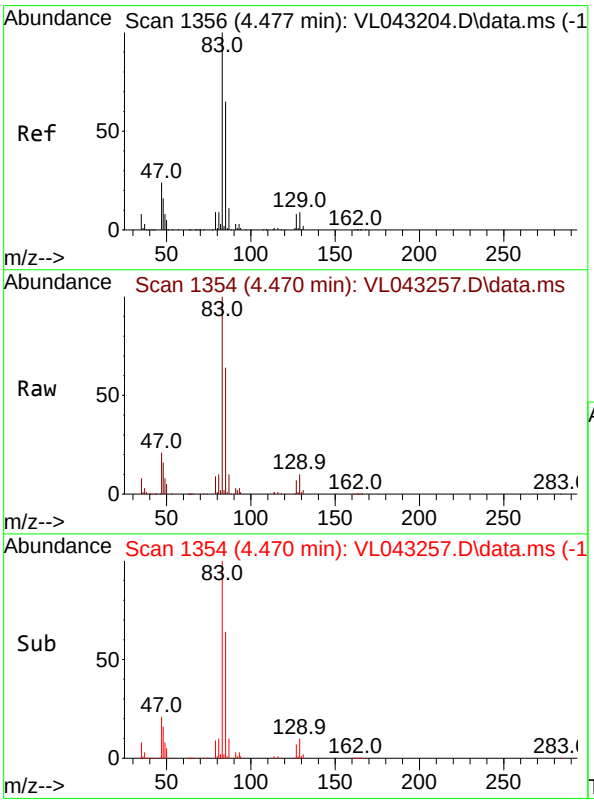
#41
Tetrahydrofuran
Concen: 8.822 ppbv
RT: 3.040 min Scan# 91
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 42 Resp: 94776

Ion	Ratio	Lower	Upper
42	100		
72	39.9	30.6	46.0
71	39.0	30.5	45.7

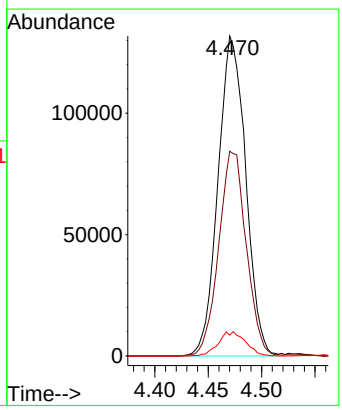


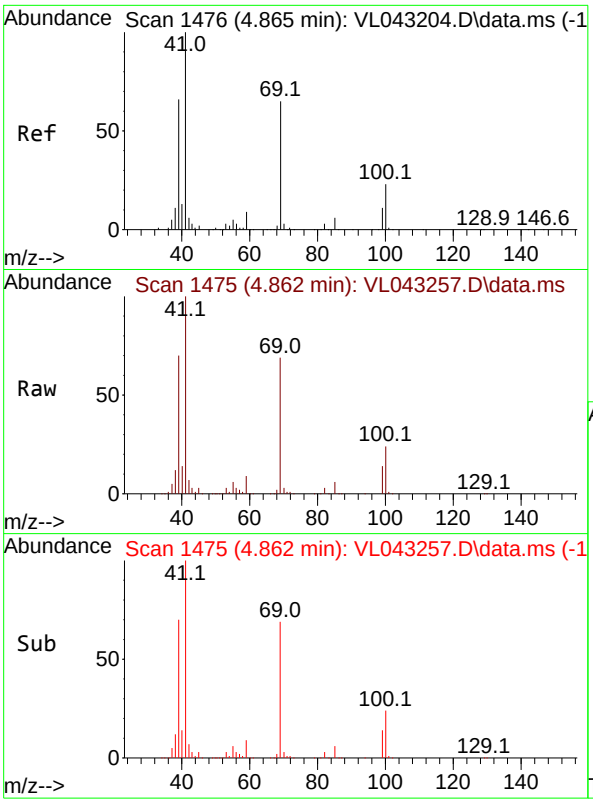


#42
Bromodichloromethane
Concen: 11.152 ppbv
RT: 4.470 min Scan# 1354
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 83 Resp: 237498

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.7	77.5
127	6.5	6.3	9.5



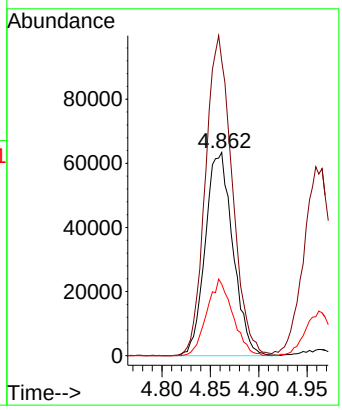


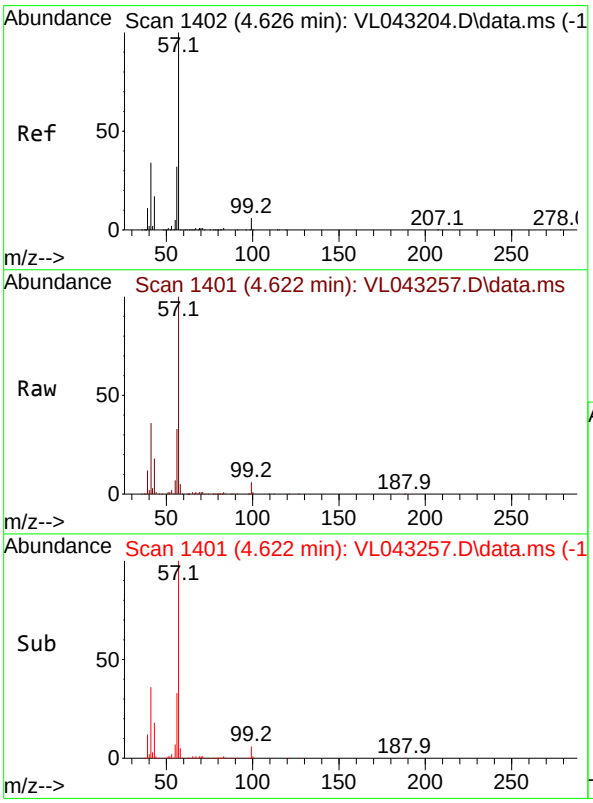
#43
Methyl Methacrylate
Concen: 8.957 ppbv
RT: 4.862 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 125480

Ion	Ratio	Lower	Upper
69	100		
41	152.5	126.7	190.1
100	35.4	28.6	43.0

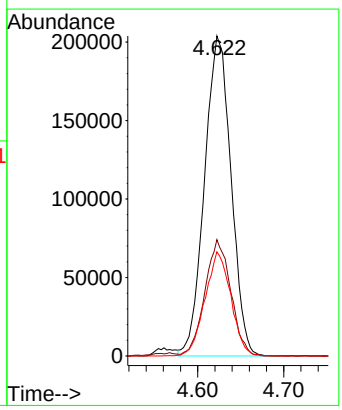


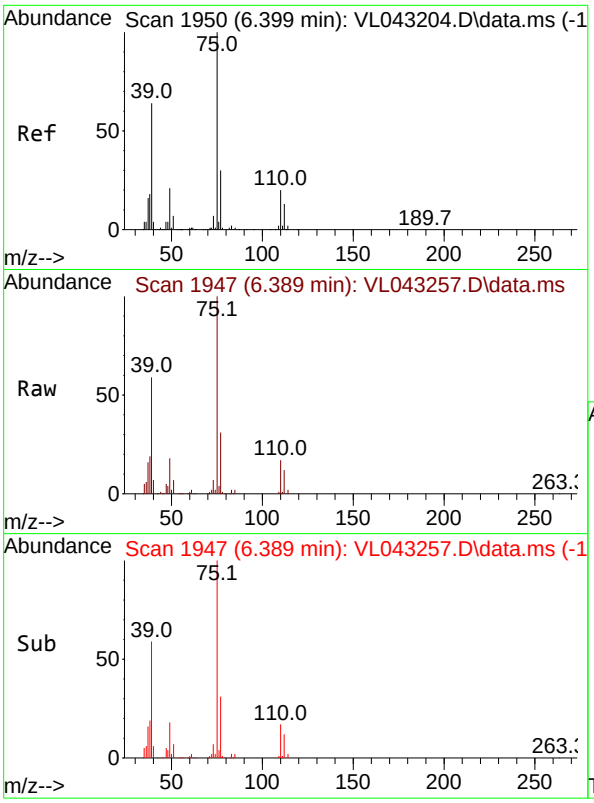


#44
2,2,4-Trimethylpentane
Concen: 9.643 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 57 Resp: 437108

Ion	Ratio	Lower	Upper
57	100		
41	36.3	28.0	42.0
56	31.7	25.6	38.4



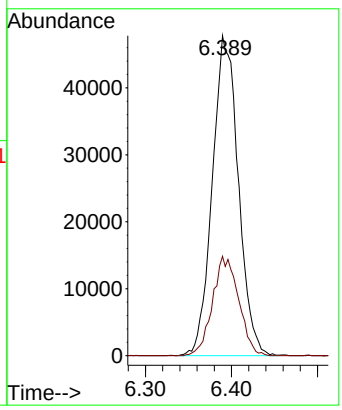


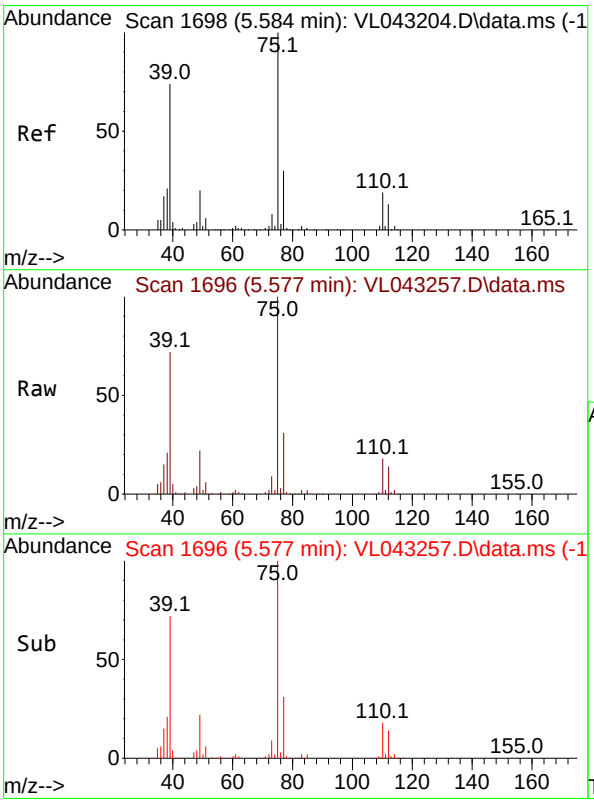
#45
t-1,3-Dichloropropene
Concen: 7.675 ppbv
RT: 6.389 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 75 Resp: 100231

Ion	Ratio	Lower	Upper
75	100		
77	31.0	24.3	36.5

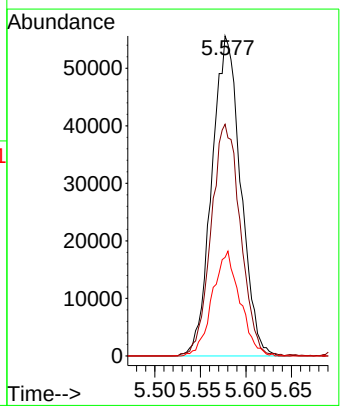


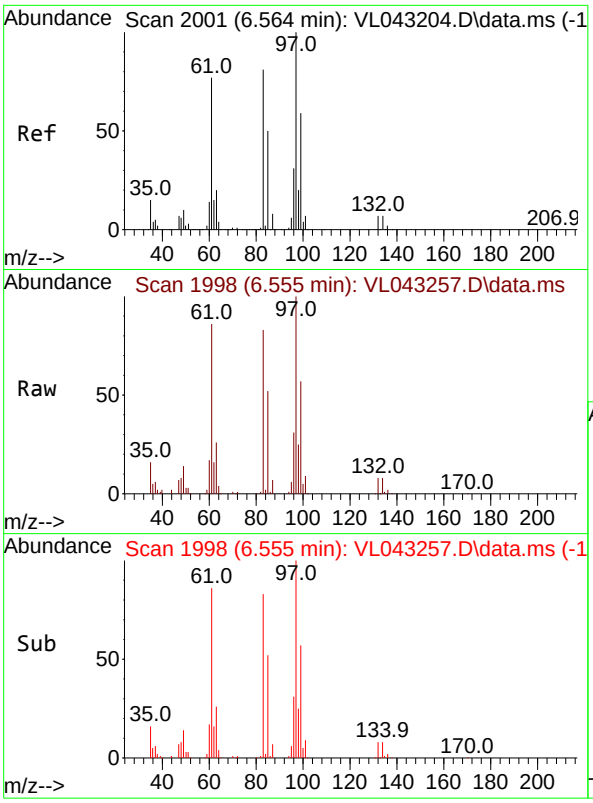


#46
cis-1,3-Dichloropropene
Concen: 7.989 ppbv
RT: 5.577 min Scan# 1696
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 75 Resp: 122504

Ion	Ratio	Lower	Upper
75	100		
39	72.3	59.1	88.7
77	30.8	24.2	36.2



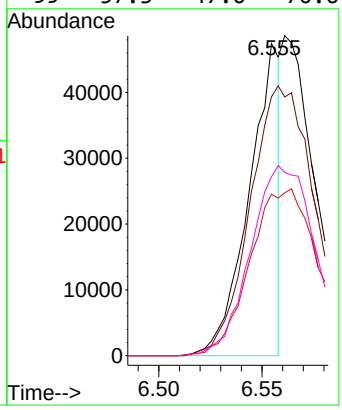


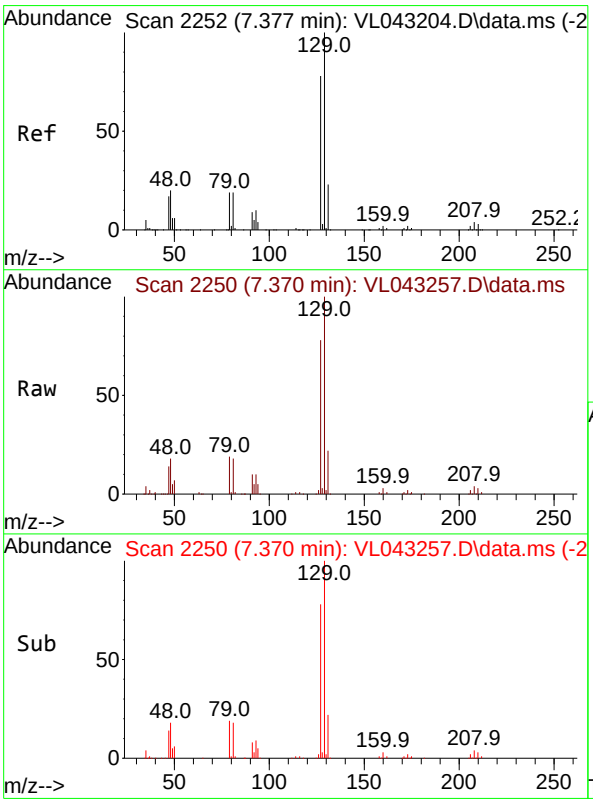
#47
1,1,2-Trichloroethane
Concen: 4.782 ppbv
RT: 6.555 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 97 Resp: 49025

Ion	Ratio	Lower	Upper
97	100		
83	82.9	64.6	97.0
85	51.7	39.4	59.2
99	57.3	47.0	70.6

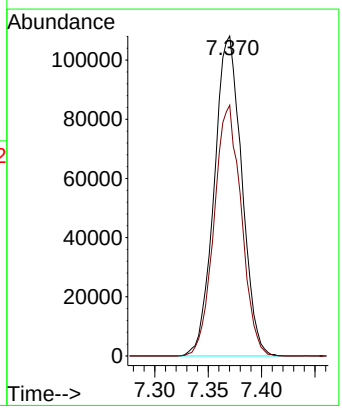


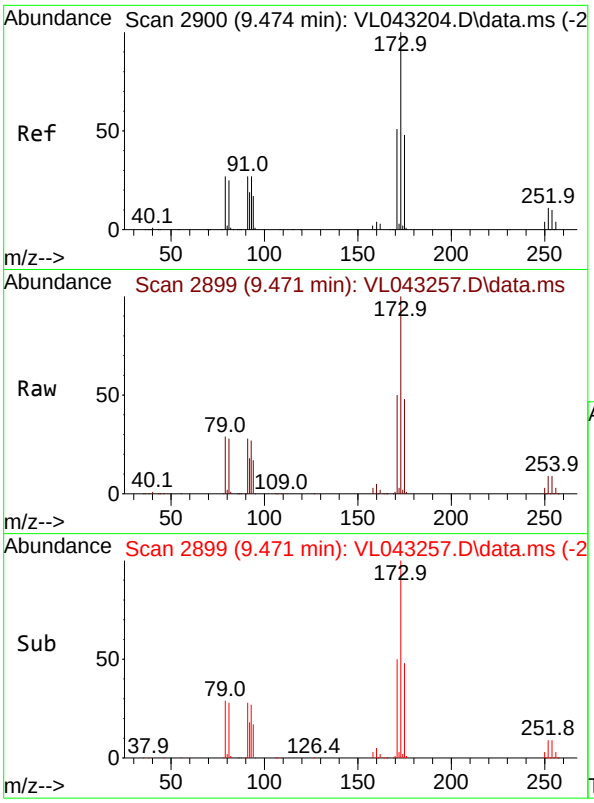


#48
Dibromochloromethane
Concen: 10.997 ppbv
RT: 7.370 min Scan# 2250
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:129 Resp: 193819

Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.3	117.9



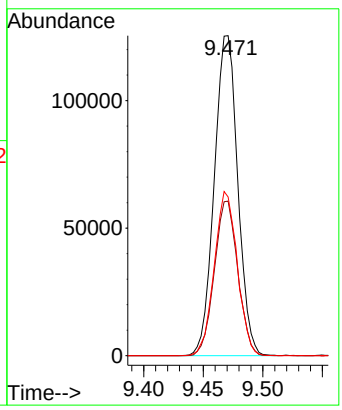


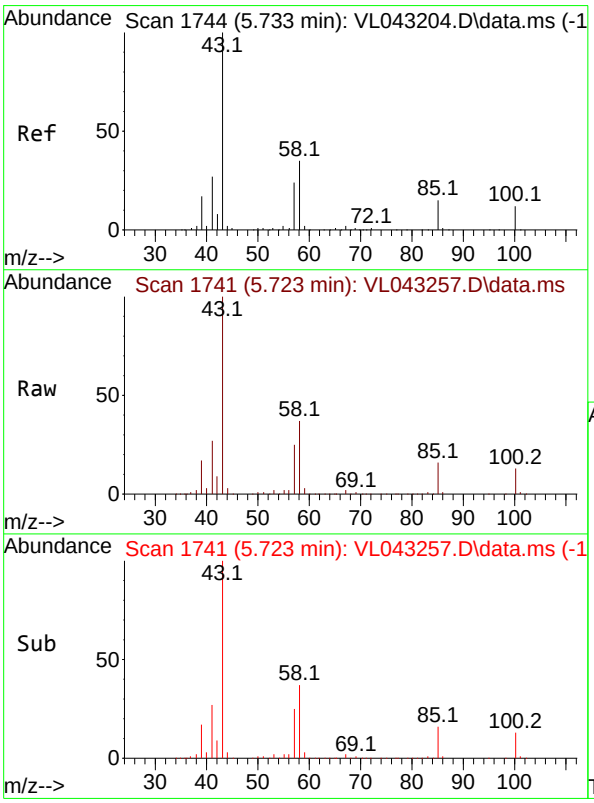
#49
Bromoform
Concen: 10.994 ppbv
RT: 9.471 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:173 Resp: 171644

Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.6	58.0
171	50.3	40.6	61.0

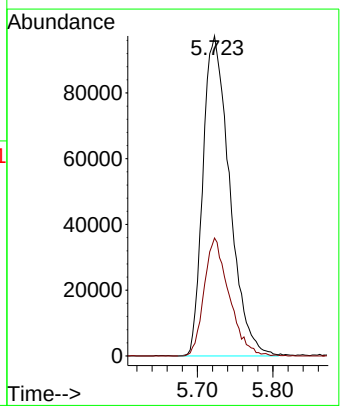


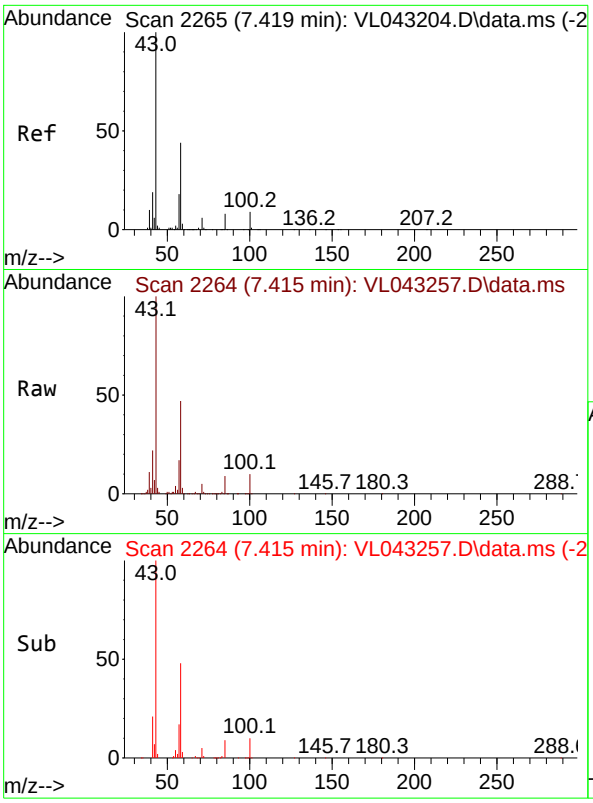


#50
4-Methyl-2-Pentanone
Concen: 8.688 ppbv
RT: 5.723 min Scan# 1741
Delta R.T. -0.010 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 43 Resp: 238084

Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.4	42.6



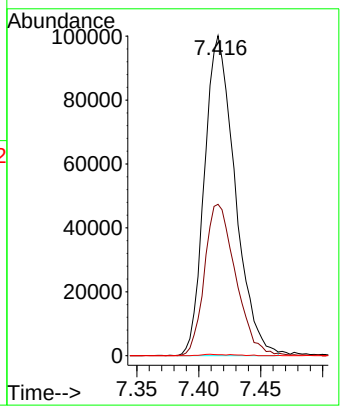


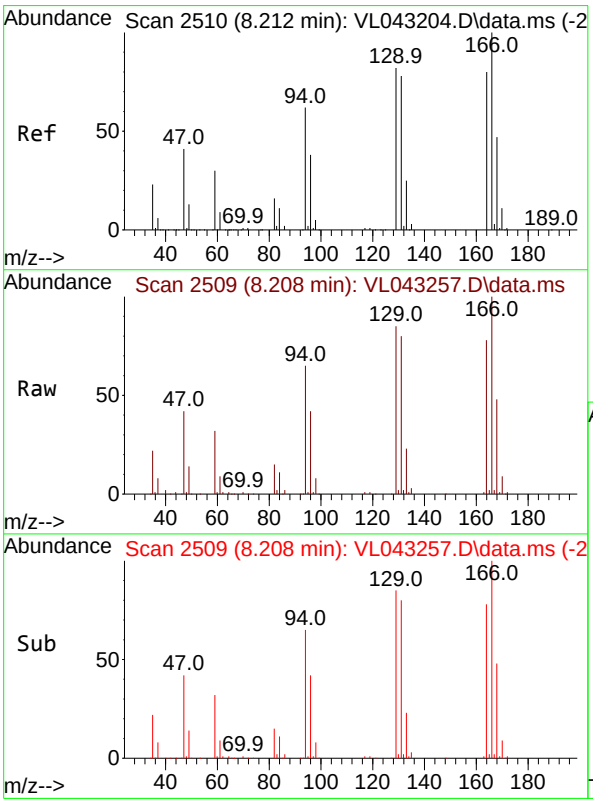
#51
2-Hexanone
Concen: 8.097 ppbv
RT: 7.415 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 172317

Ion	Ratio	Lower	Upper
43	100		
58	48.3	38.4	57.6
98	0.4	0.0	0.0#

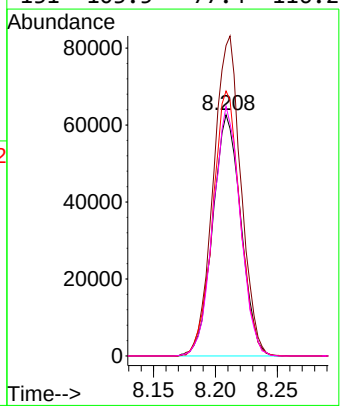


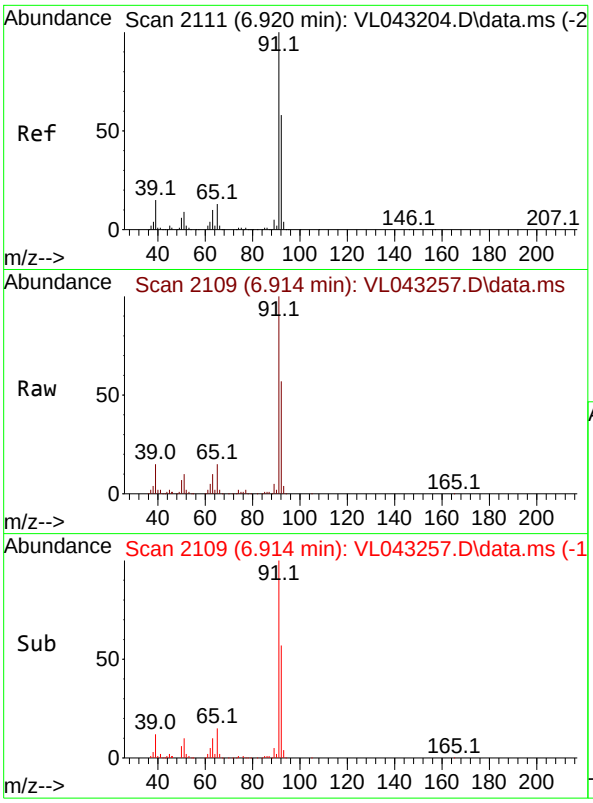


#52
Tetrachloroethene
Concen: 10.097 ppbv
RT: 8.208 min Scan# 2509
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:164 Resp: 99129

Ion	Ratio	Lower	Upper
164	100		
166	128.8	99.4	149.2
129	109.9	81.8	122.8
131	103.5	77.4	116.2



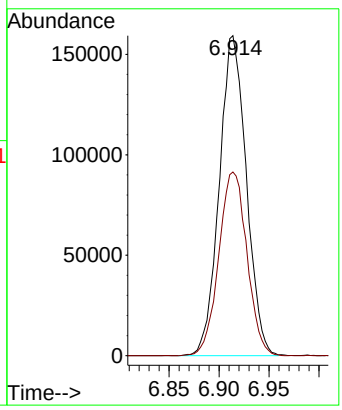


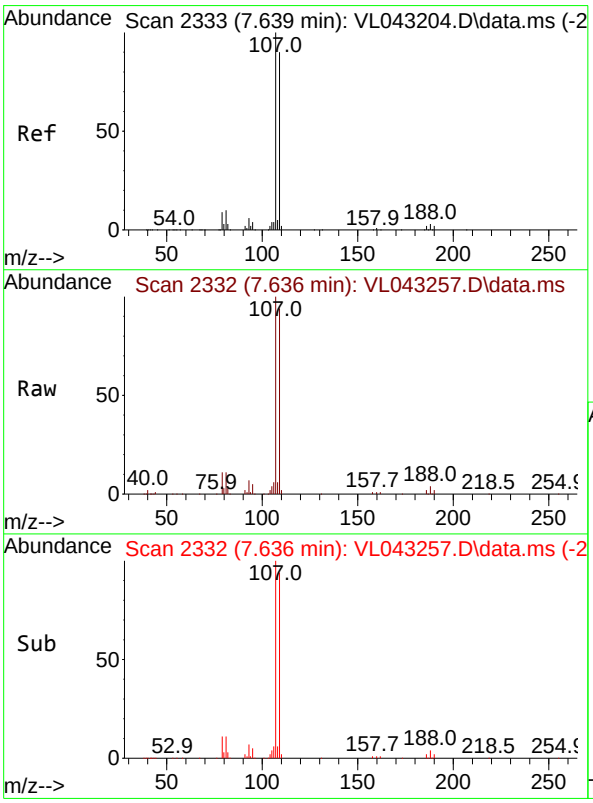
#53
Toluene
Concen: 9.604 ppbv
RT: 6.914 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 300158

Ion	Ratio	Lower	Upper
91	100		
92	59.7	47.4	71.0

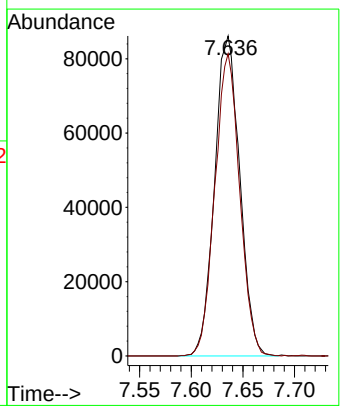


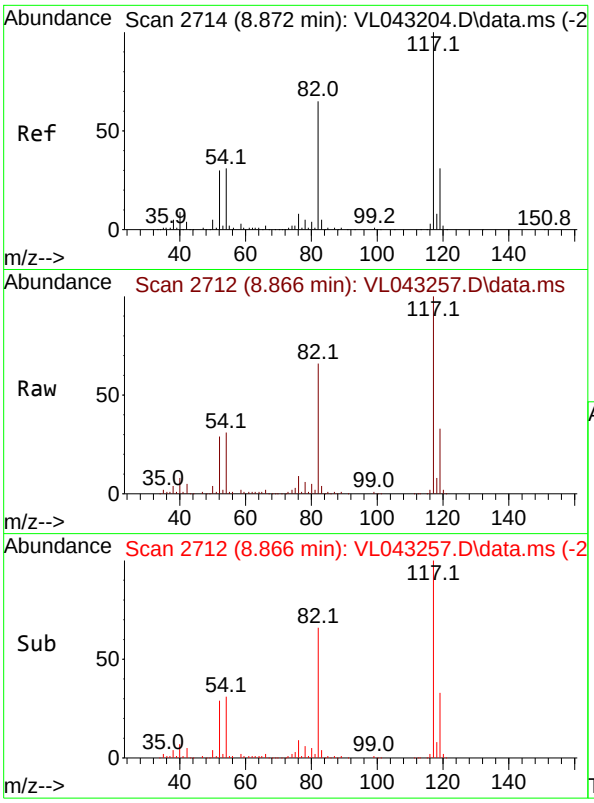


#54
1,2-Dibromoethane
Concen: 9.684 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:107 Resp: 146099

Ion	Ratio	Lower	Upper
107	100		
109	94.4	72.1	108.1



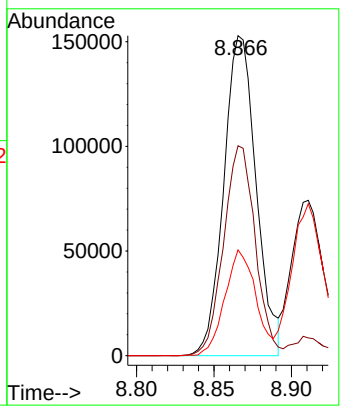


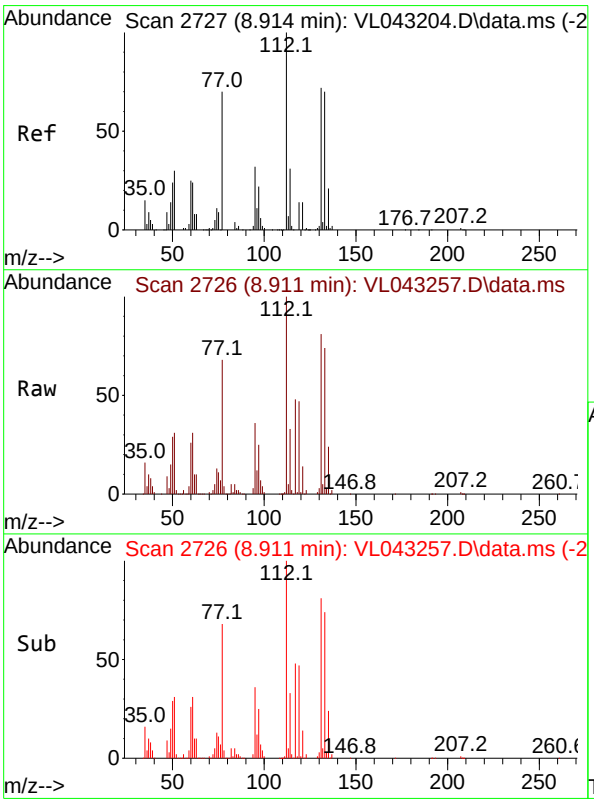
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.866 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 222776

Ion	Ratio	Lower	Upper
117	100		
82	65.1	56.1	84.1
119	32.7	25.0	37.6

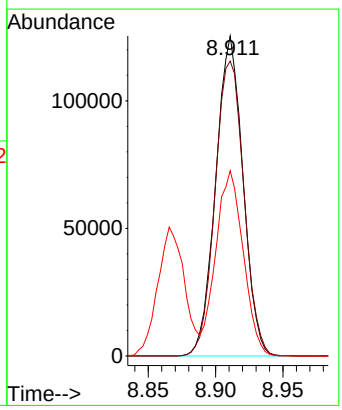


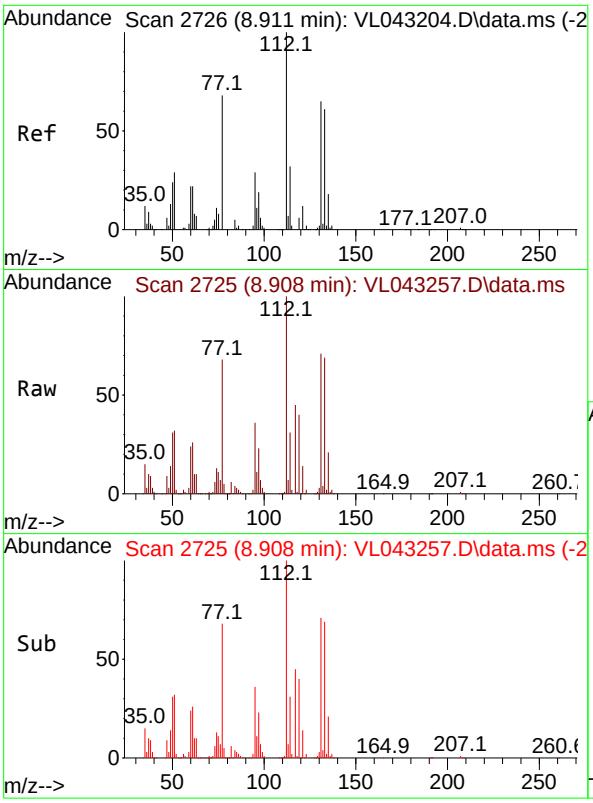


#56
1,1,1,2-Tetrachloroethane
Concen: 10.787 ppbv
RT: 8.911 min Scan# 2726
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:131 Resp: 176606

Ion	Ratio	Lower	Upper
131	100		
133	97.5	77.4	116.2
119	59.3	49.1	73.7



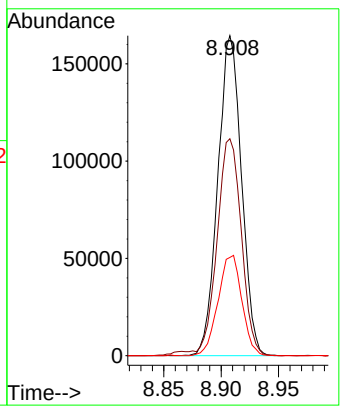


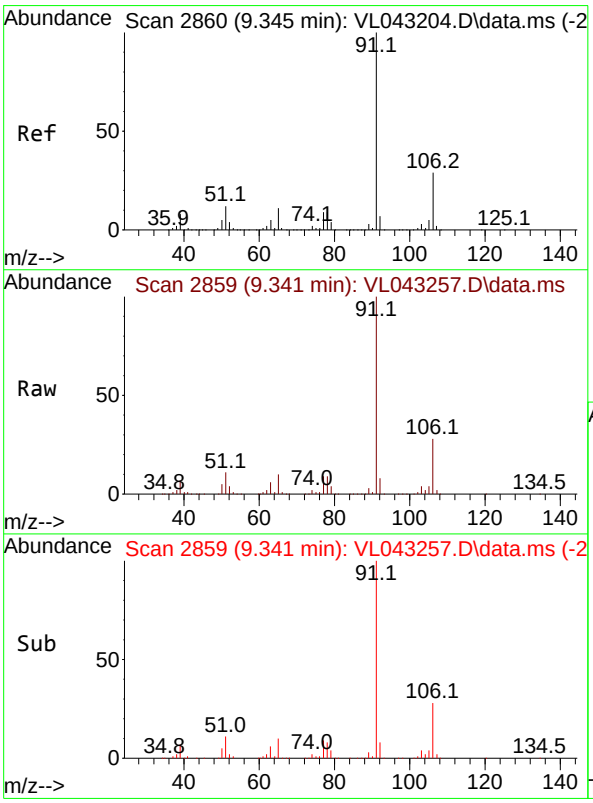
#57
Chlorobenzene
Concen: 10.333 ppbv
RT: 8.908 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:112 Resp: 236347

Ion	Ratio	Lower	Upper
112	100		
77	67.8	55.5	83.3
114	30.7	29.1	35.5

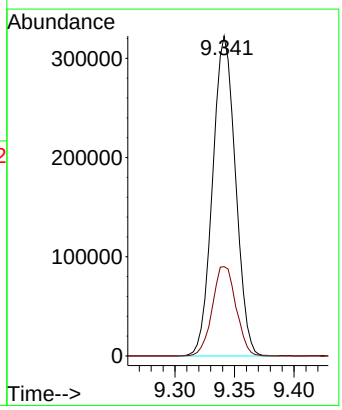


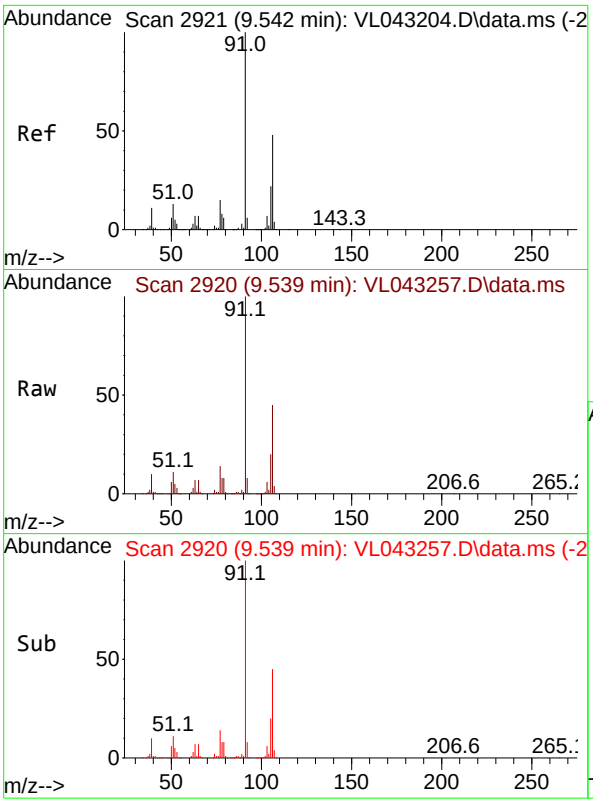


#58
Ethyl Benzene
Concen: 10.037 ppbv
RT: 9.341 min Scan# 2859
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 91 Resp: 430385

Ion	Ratio	Lower	Upper
91	100		
106	27.9	22.8	34.2



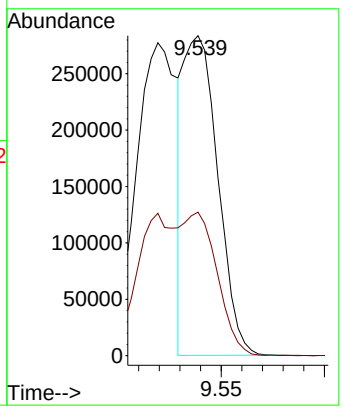


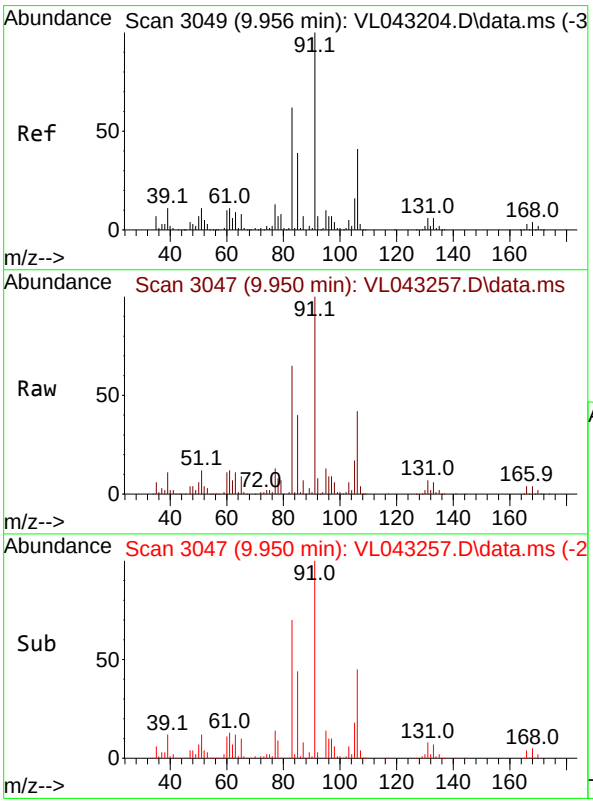
#59
m/p-Xylene
Concen: 9.459 ppbv
RT: 9.539 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 325160

Ion	Ratio	Lower	Upper
91	100		
106	96.7	36.1	54.1#

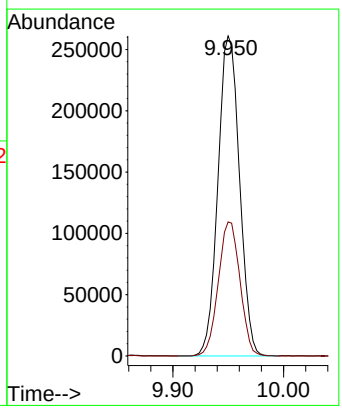


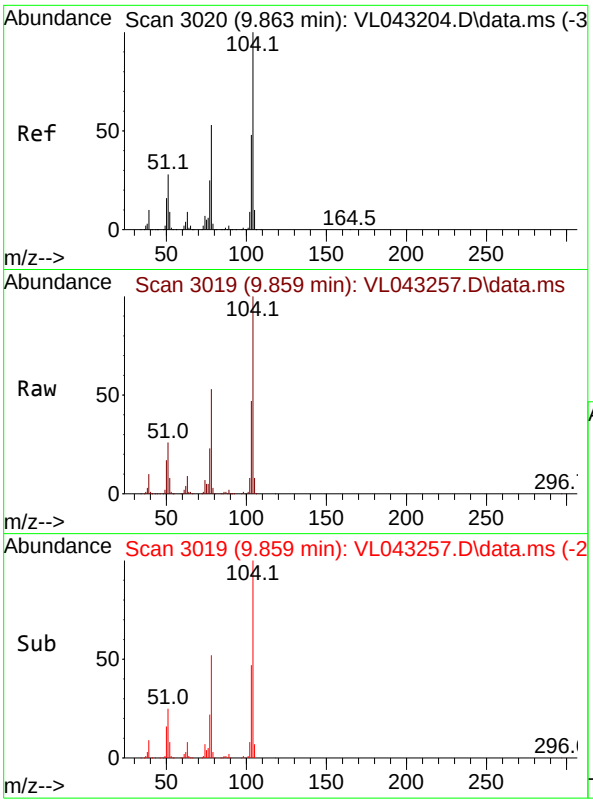


#60
o-Xylene
Concen: 10.284 ppbv
RT: 9.950 min Scan# 3047
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 91 Resp: 353166

Ion	Ratio	Lower	Upper
91	100		
106	42.1	20.9	62.8



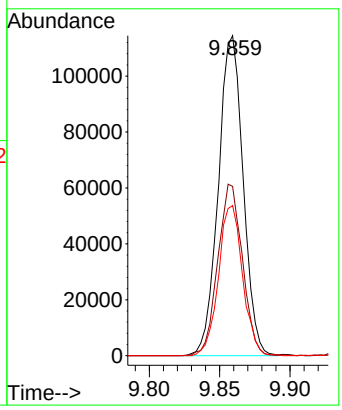


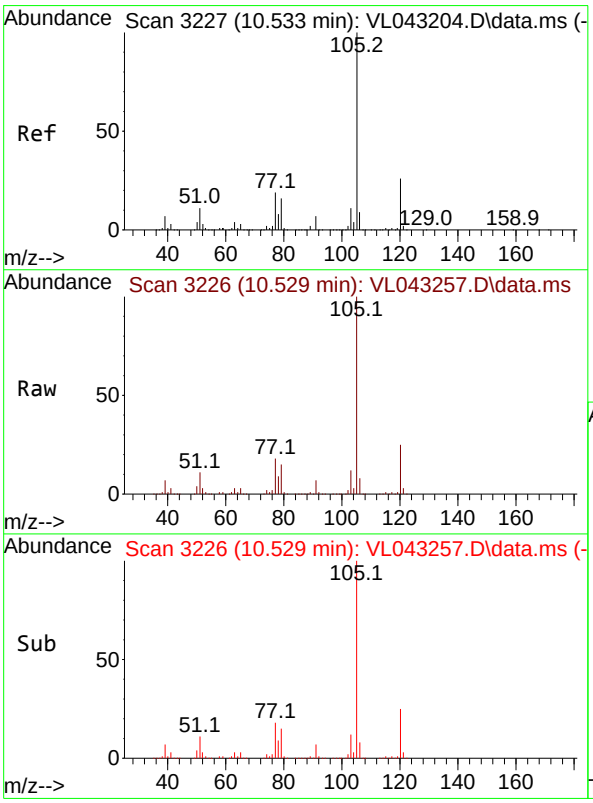
#61
Styrene
Concen: 9.353 ppbv
RT: 9.859 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 140574

Ion	Ratio	Lower	Upper
104	100		
78	53.2	42.1	63.1
103	45.7	37.2	55.8

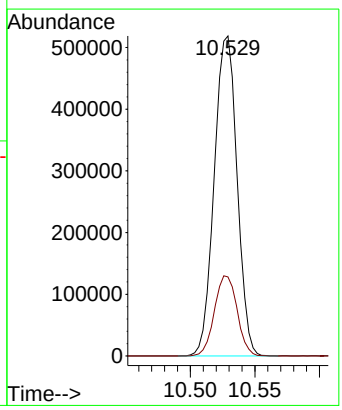


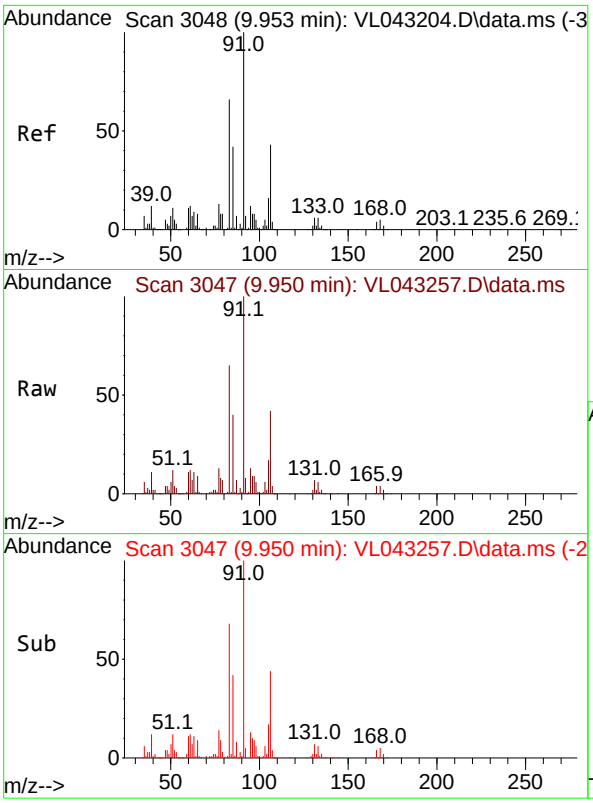


#62
Isopropylbenzene
Concen: 10.379 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:105 Resp: 637682

Ion	Ratio	Lower	Upper
105	100		
120	24.9	19.8	29.8



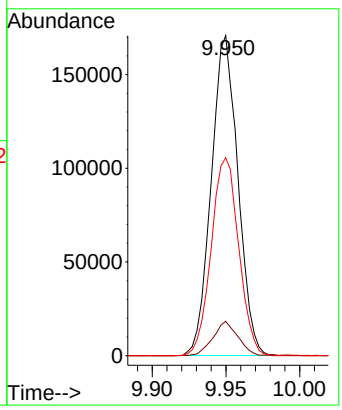


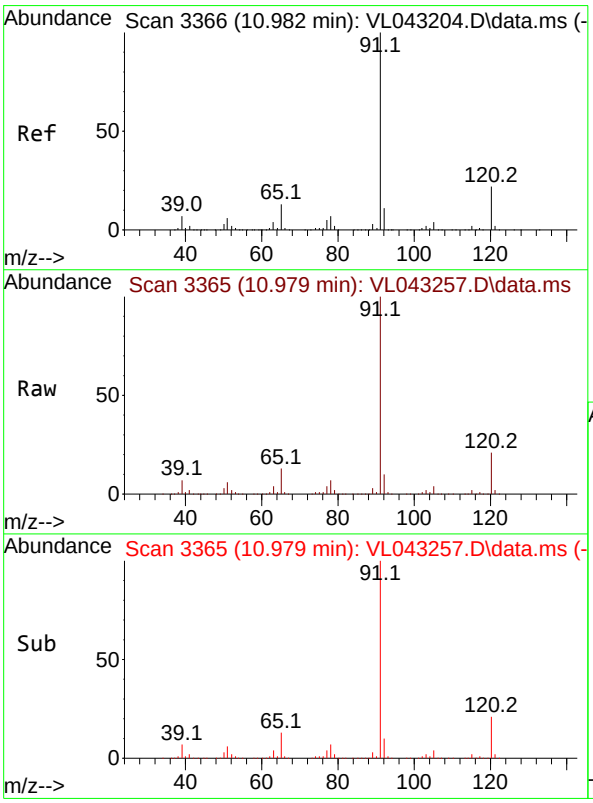
#63
1,1,2,2-Tetrachloroethane
Concen: 9.817 ppbv
RT: 9.950 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 214523

Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.8	14.3
85	63.9	31.9	95.9

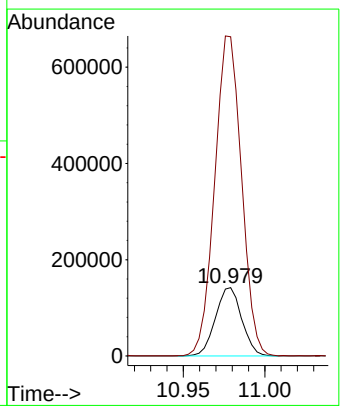


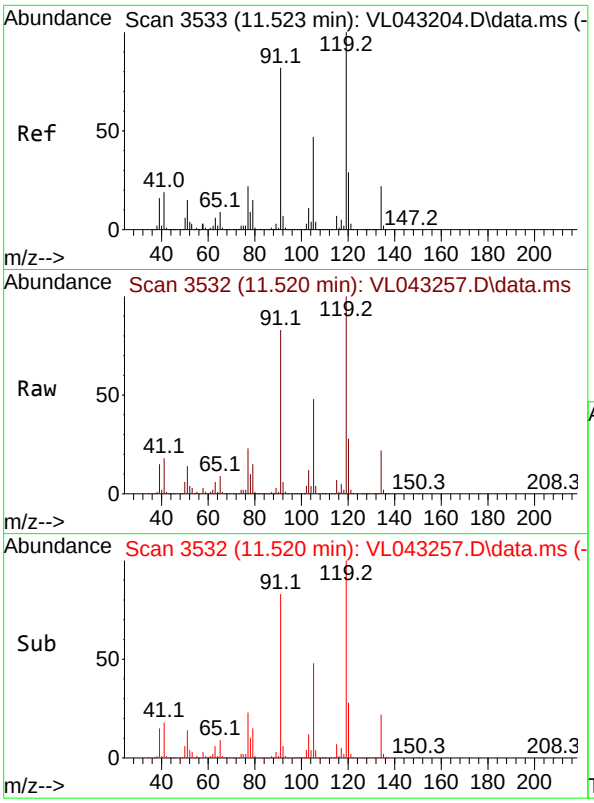


#64
n-propylbenzene
Concen: 10.052 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:120 Resp: 158685

Ion	Ratio	Lower	Upper
120	100		
91	479.0	377.1	565.7



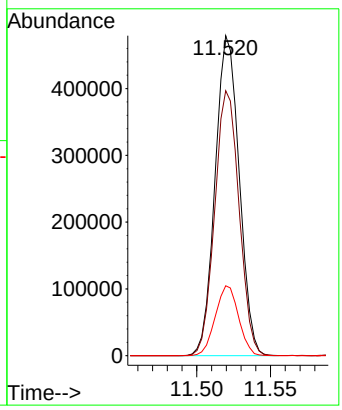


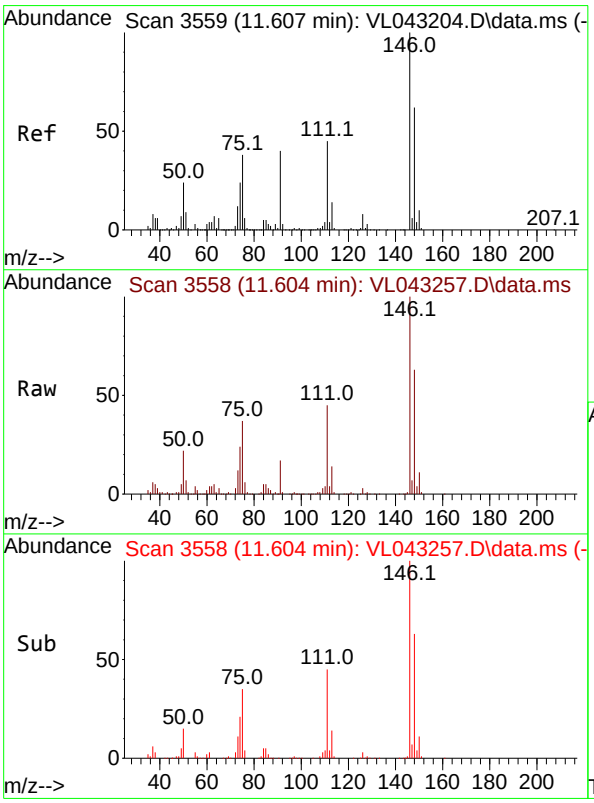
#65
tert-Butylbenzene
Concen: 9.932 ppbv
RT: 11.520 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 544959

Ion	Ratio	Lower	Upper
119	100		
91	83.7	65.3	97.9
134	21.1	17.0	25.4

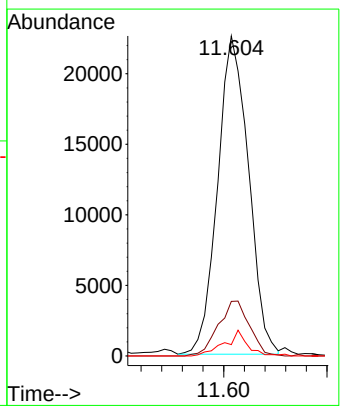


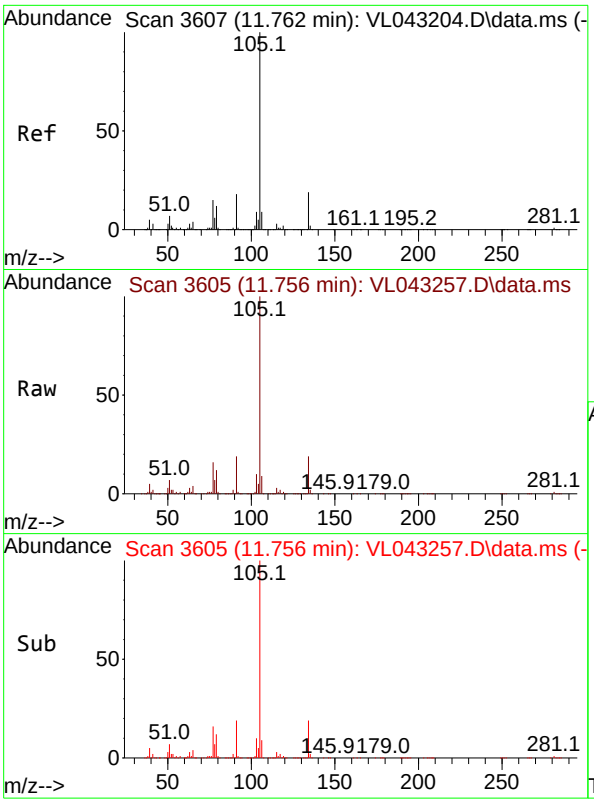


#66
Benzyl Chloride
Concen: 4.210 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 91 Resp: 23441

Ion	Ratio	Lower	Upper
91	100		
126	17.5	14.4	21.6
128	6.0	4.6	6.8



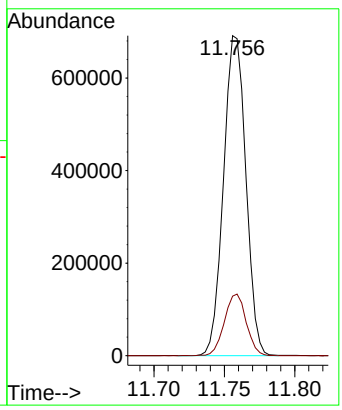


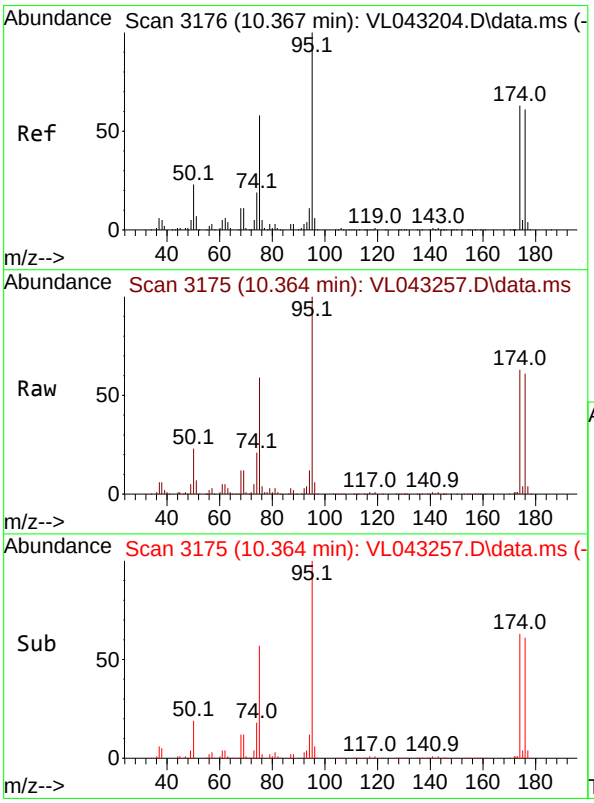
#67
sec-Butylbenzene
Concen: 9.982 ppbv
RT: 11.756 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 764527

Ion	Ratio	Lower	Upper
105	100		
134	18.8	15.0	22.6

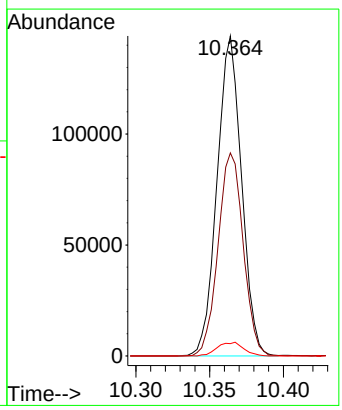


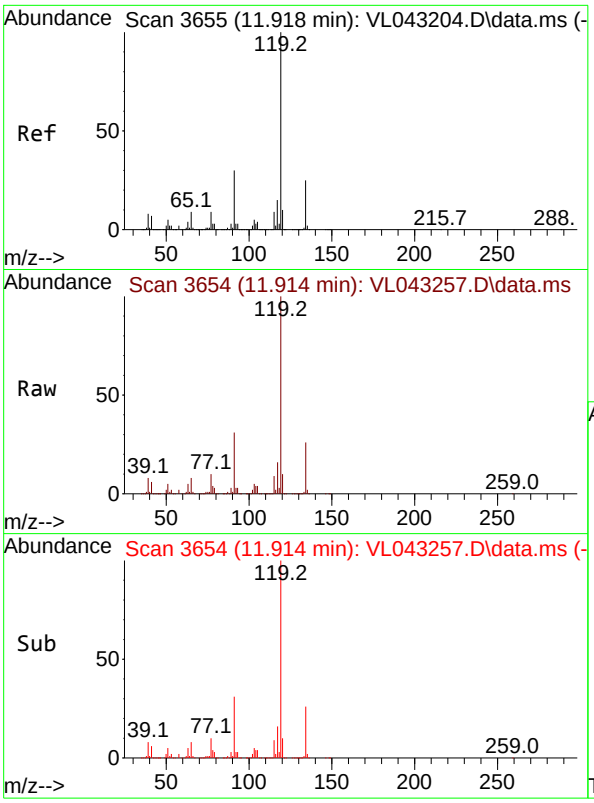


#68
1-Bromo-4-Fluorobenzene
Concen: 10.198 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 95 Resp: 166532

Ion	Ratio	Lower	Upper
95	100		
174	65.2	50.2	75.2
175	4.6	4.1	6.1



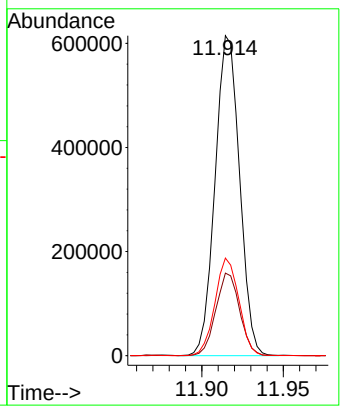


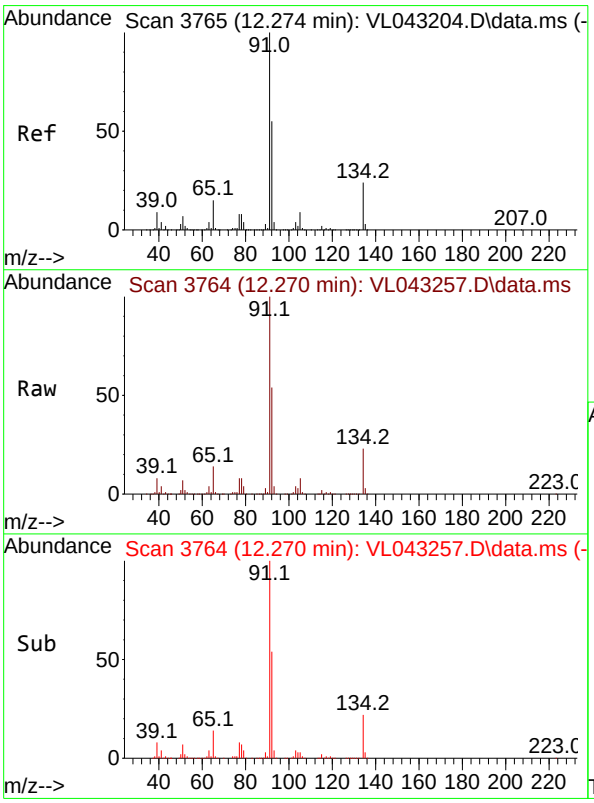
#69
p-Isopropyltoluene
Concen: 9.886 ppbv
RT: 11.914 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 641411

Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	30.0	23.8	35.8

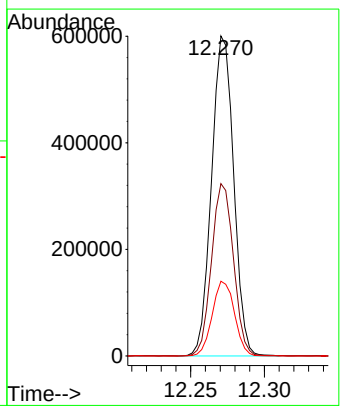


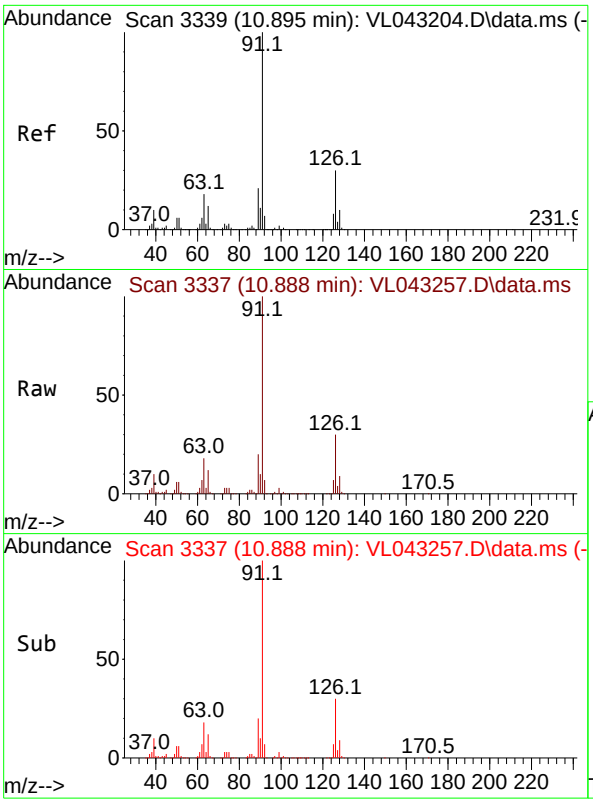


#70
n-Butylbenzene
Concen: 9.948 ppbv
RT: 12.270 min Scan# 3764
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion: 91 Resp: 626151

Ion	Ratio	Lower	Upper
91	100		
92	53.4	43.5	65.3
134	23.5	19.0	28.6



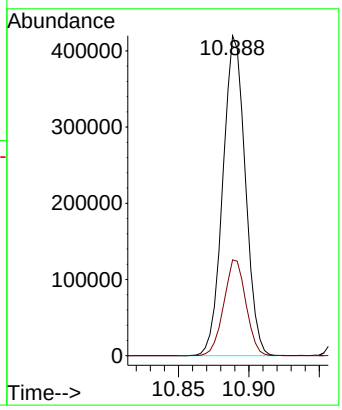


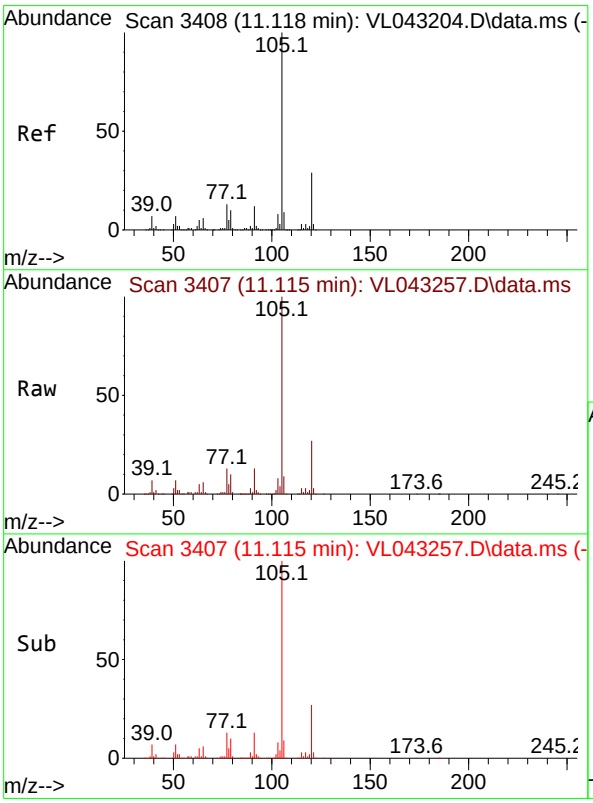
#71
2-Chlorotoluene
Concen: 9.875 ppbv
RT: 10.888 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 466353

Ion	Ratio	Lower	Upper
91	100		
126	29.5	11.7	46.7

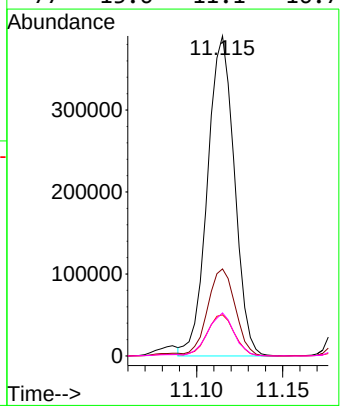


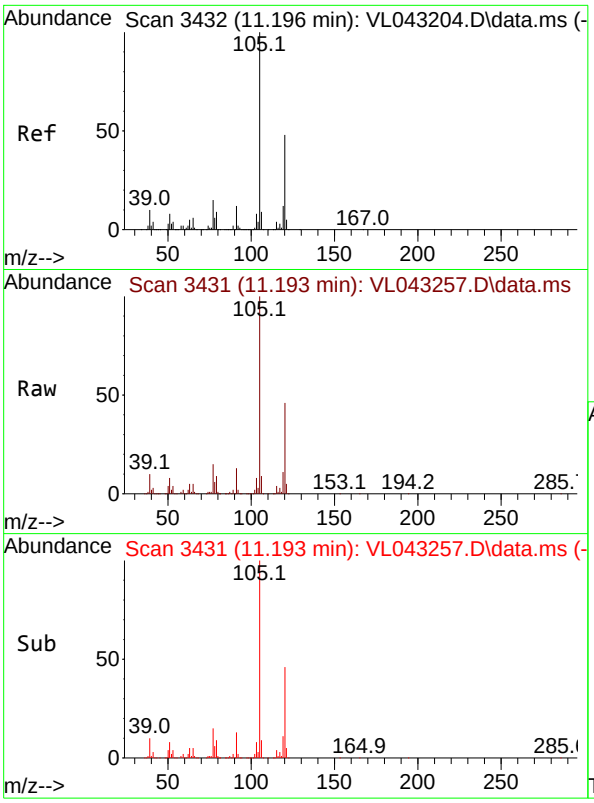


#72
4-Ethyltoluene
Concen: 10.147 ppbv
RT: 11.115 min Scan# 3407
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:105 Resp: 424355

Ion	Ratio	Lower	Upper
105	100		
120	28.7	23.8	35.8
91	13.9	10.3	15.5
77	13.6	11.1	16.7



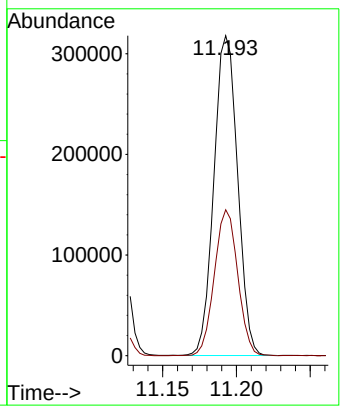


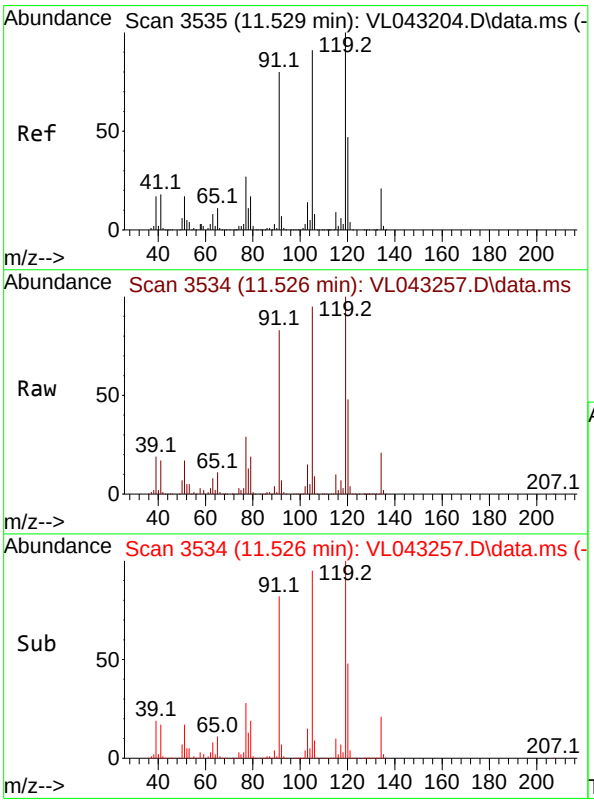
#73
1,3,5-Trimethylbenzene
Concen: 10.119 ppbv
RT: 11.193 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 355138

Ion	Ratio	Lower	Upper
105	100		
120	45.6	38.6	57.8

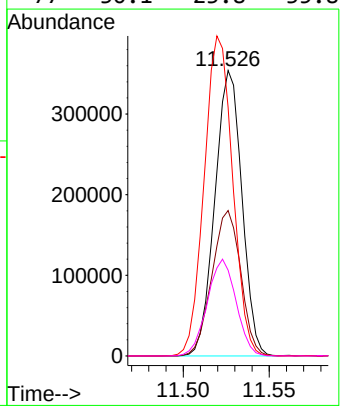


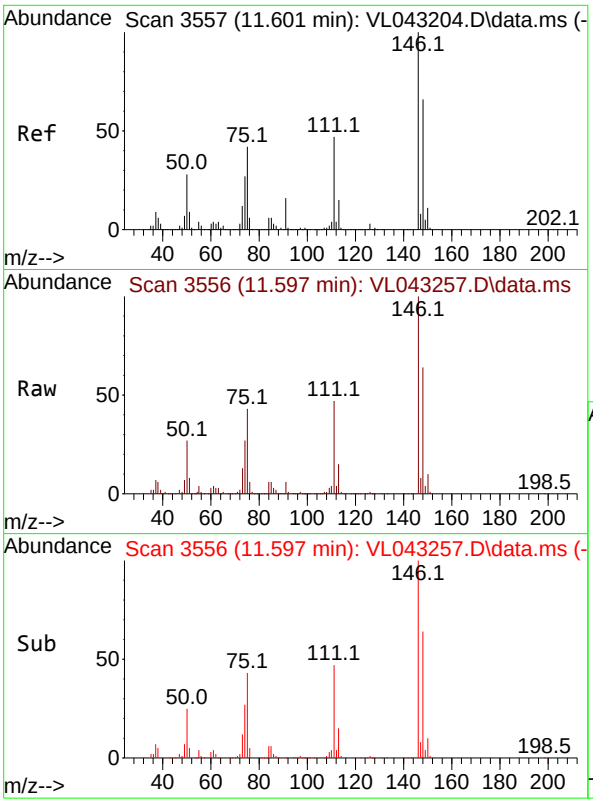


#74
1,2,4-Trimethylbenzene
Concen: 10.095 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:105 Resp: 386671

Ion	Ratio	Lower	Upper
105	100		
120	51.0	41.7	62.5
91	87.0	70.0	105.0
77	30.1	23.8	35.8



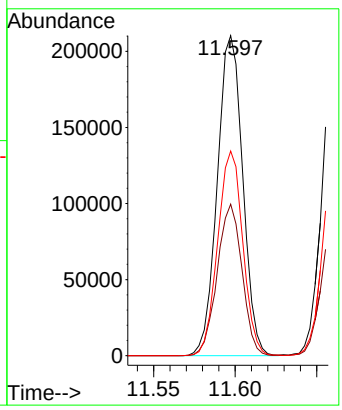


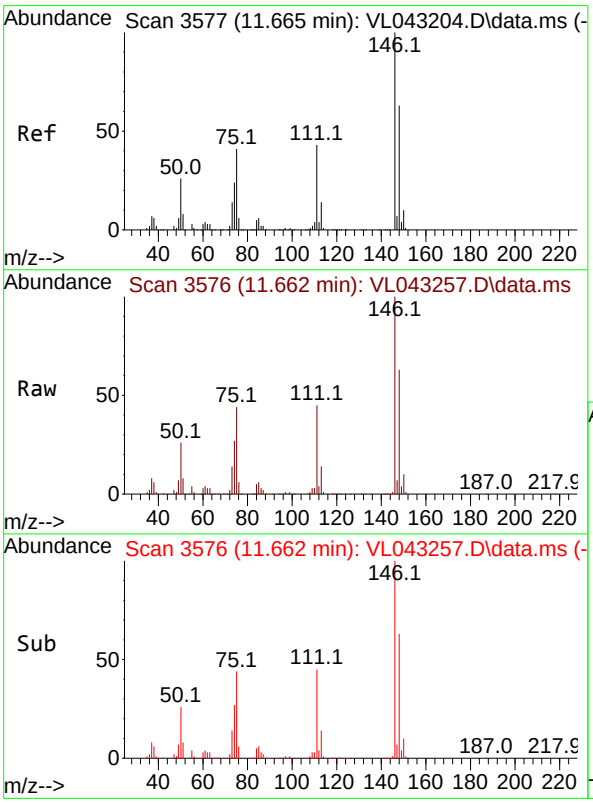
#75
1,3-Dichlorobenzene
Concen: 10.196 ppbv
RT: 11.597 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 227896

Ion	Ratio	Lower	Upper
146	100		
111	46.2	23.4	70.3
148	63.1	31.6	95.0

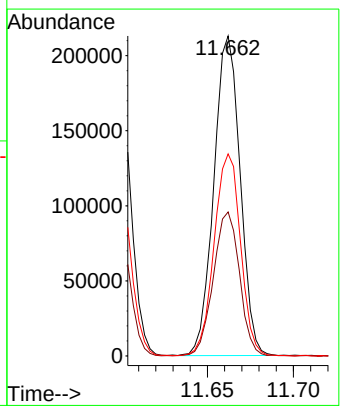


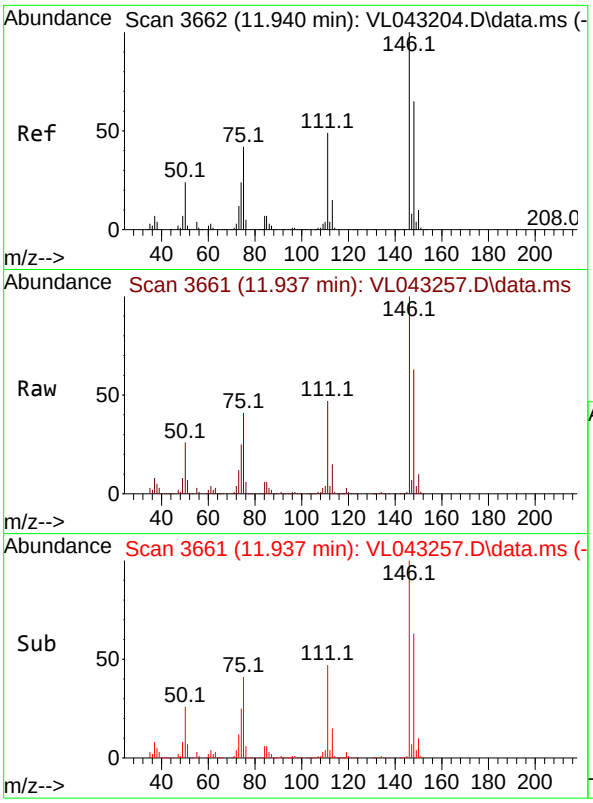


#76
1,4-Dichlorobenzene
Concen: 10.117 ppbv
RT: 11.662 min Scan# 3576
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:146 Resp: 226164

Ion	Ratio	Lower	Upper
146	100		
111	45.1	22.8	68.3
148	63.7	31.8	95.4



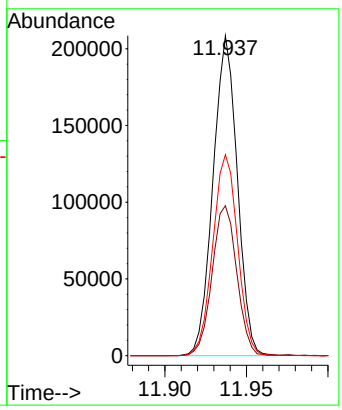


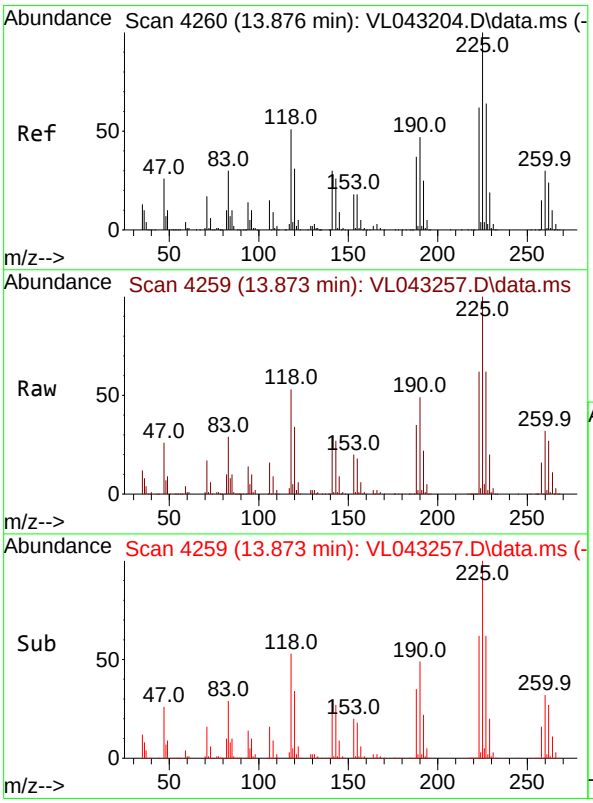
#77
1,2-Dichlorobenzene
Concen: 10.032 ppbv
RT: 11.937 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 215578

Ion	Ratio	Lower	Upper
146	100		
111	47.8	24.3	73.0
148	64.4	31.6	94.7

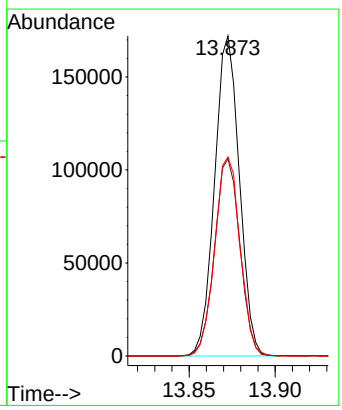


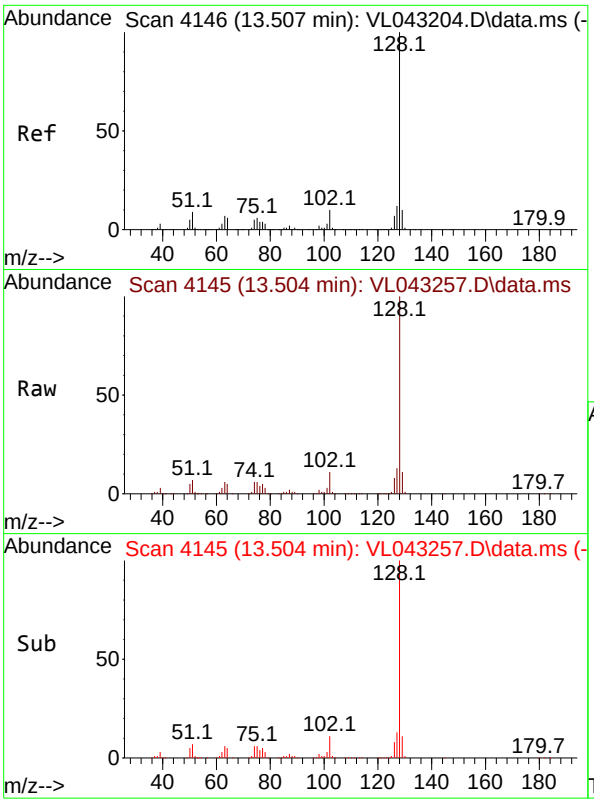


#78
Hexachloro-1,3-Butadiene
Concen: 9.604 ppbv
RT: 13.873 min Scan# 4259
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:225 Resp: 172235

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.4
227	63.5	51.1	76.7



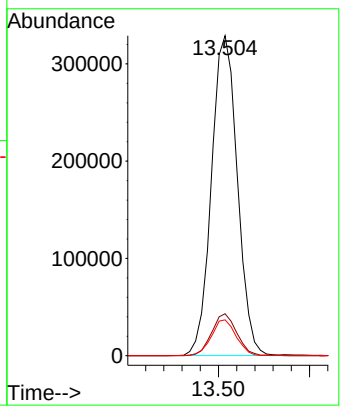


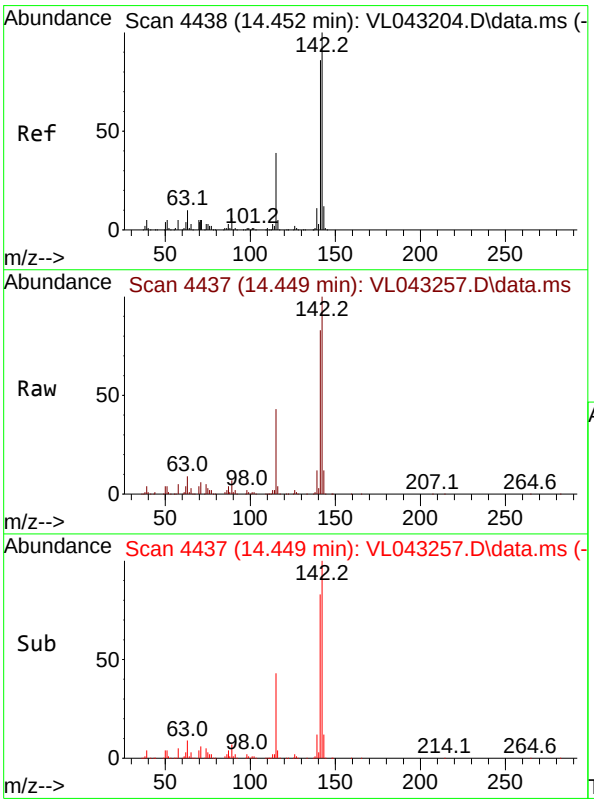
#79
Naphthalene
Concen: 9.536 ppbv
RT: 13.504 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:128 Resp: 324391

Ion	Ratio	Lower	Upper
128	100		
127	13.1	9.9	14.9
129	11.2	8.4	12.6

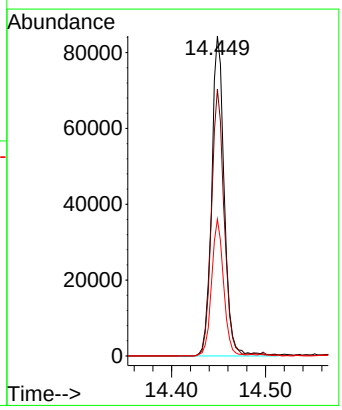


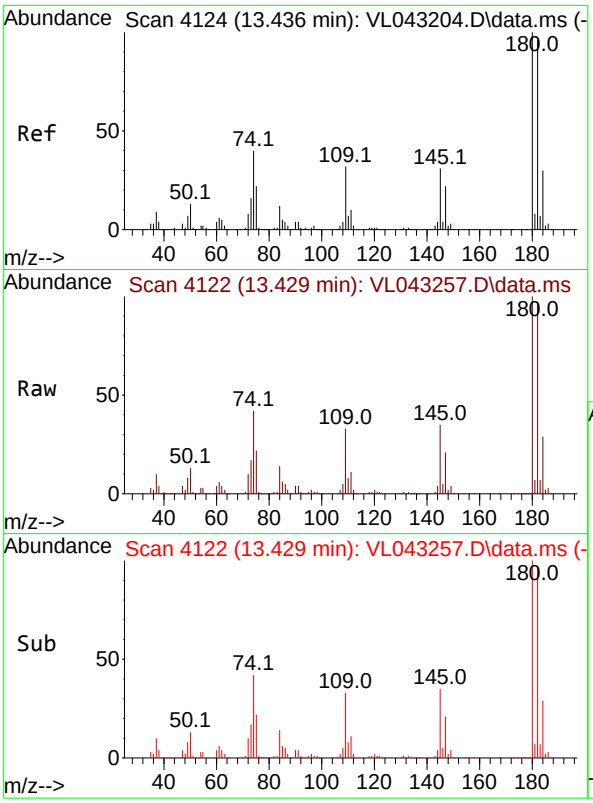


#80
Naphthalene,2-methyl-
Concen: 8.806 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. -0.003 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Tgt Ion:142 Resp: 78637

Ion	Ratio	Lower	Upper
142	100		
141	85.1	67.1	100.7
115	41.6	31.9	47.9



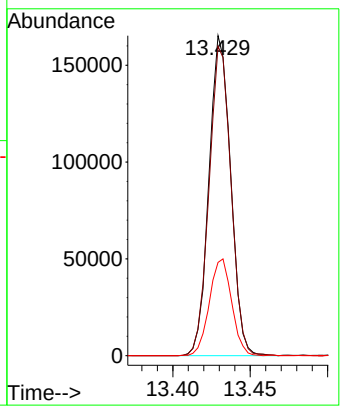


#81
1,2,4-Trichlorobenzene
Concen: 10.564 ppbv
RT: 13.429 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043257.D
Acq: 20 Nov 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:180 Resp: 160725

Ion	Ratio	Lower	Upper
180	100		
182	97.8	77.4	116.2
184	31.2	24.2	36.4



Quantitation Report (Not 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

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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 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	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	1.771	41	57758	9.673	ppbv	99
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 (Not 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

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

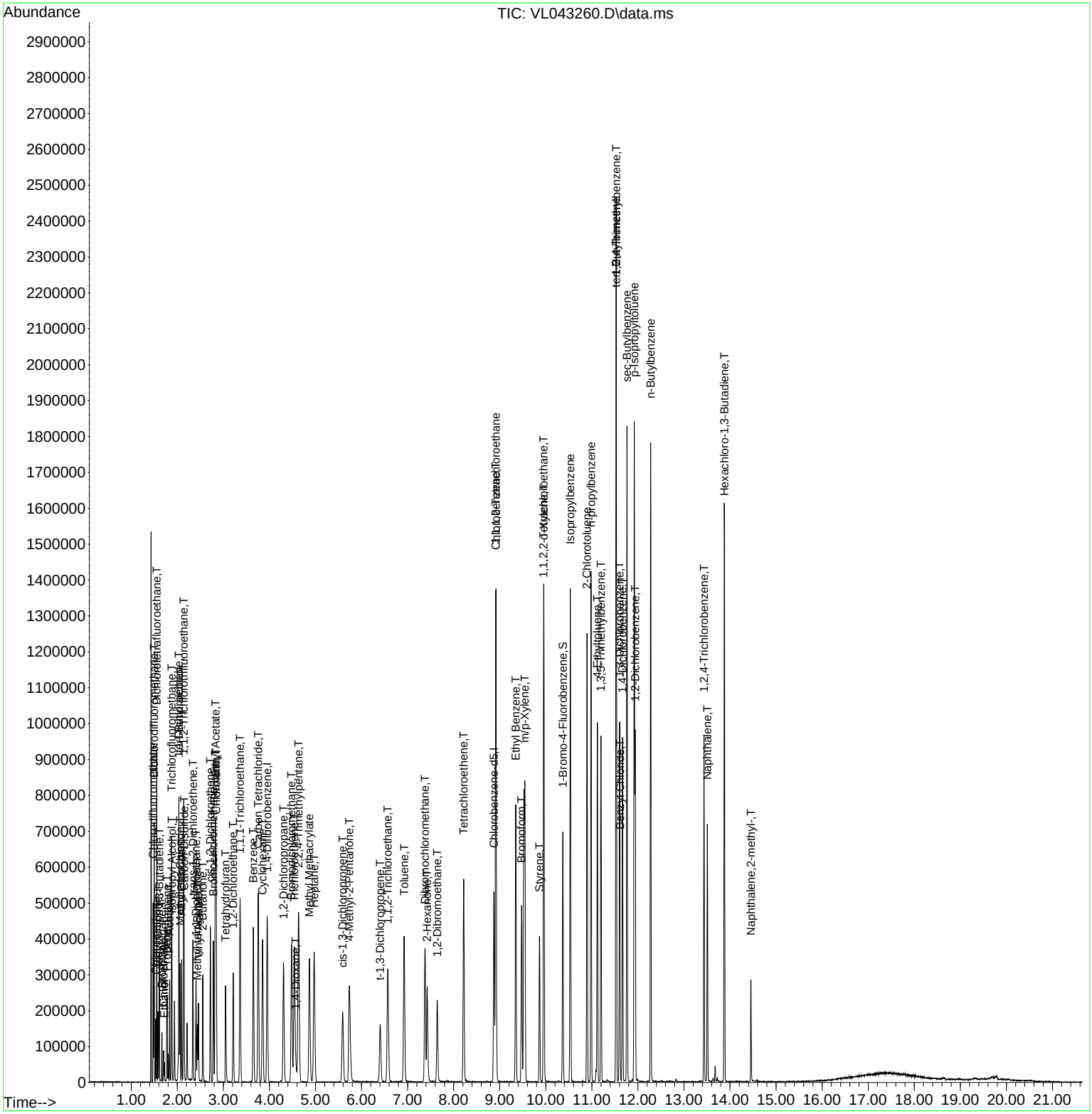
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	117380	7.810	ppbv		98
47) 1,1,2-Trichloroethane	6.571	97	104185	10.369	ppbv		97
48) Dibromochloromethane	7.377	129	188165	10.892	ppbv		99
49) Bromoform	9.474	173	168175	10.991	ppbv		99
50) 4-Methyl-2-Pentanone	5.736	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	333908	10.089	ppbv	#	23
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

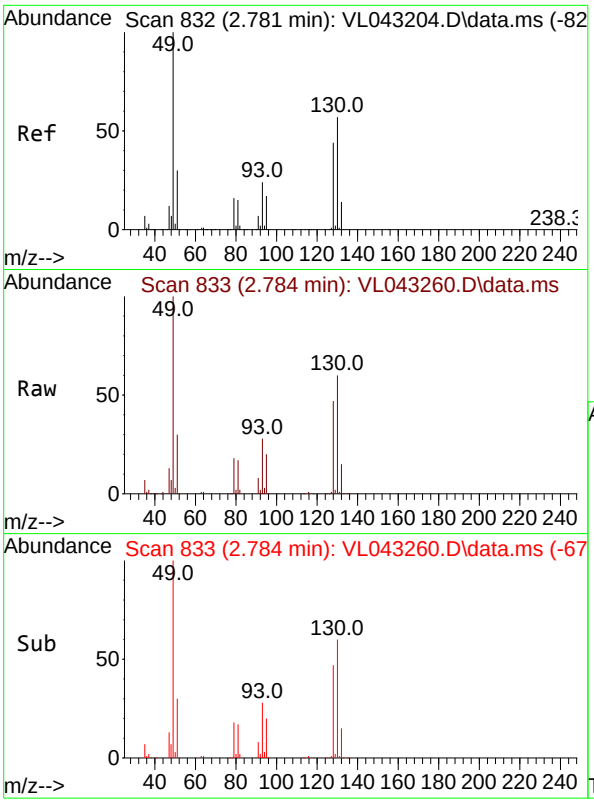
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

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 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



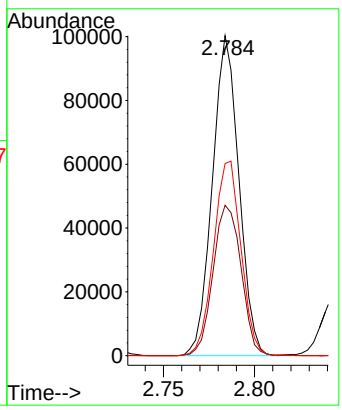


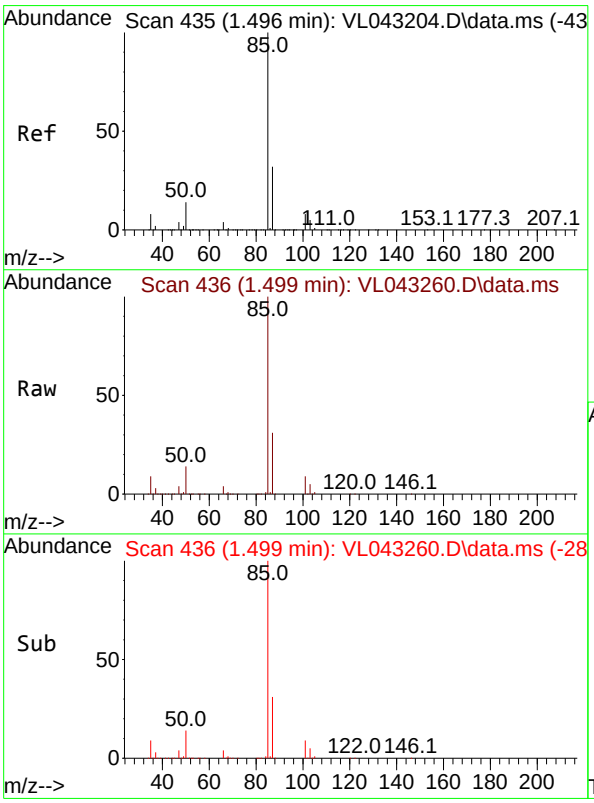
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 49 Resp: 101372

Ion	Ratio	Lower	Upper
49	100		
128	49.8	23.0	69.0
130	62.8	29.9	89.7

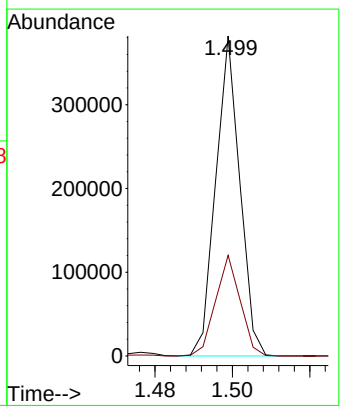


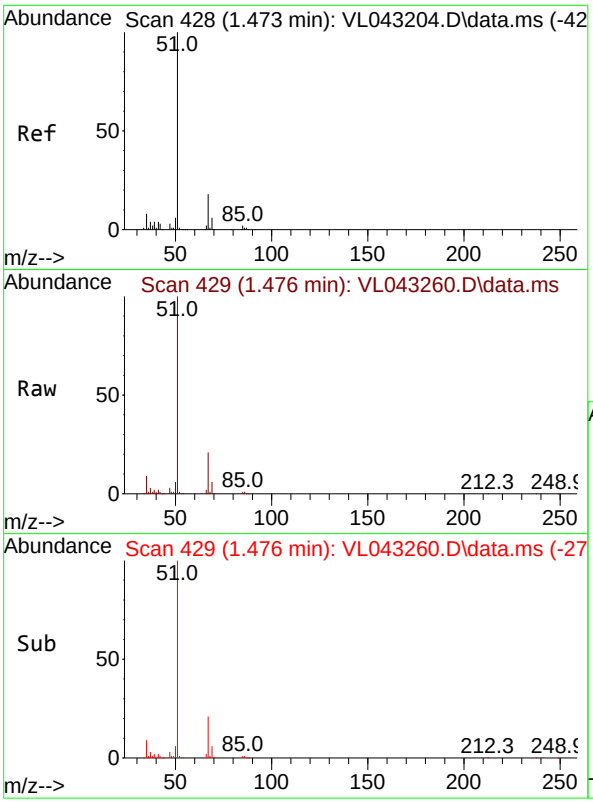


#2
Dichlorodifluoromethane
Concen: 11.526 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 85 Resp: 164798

Ion	Ratio	Lower	Upper
85	100		
87	31.4	25.4	38.2



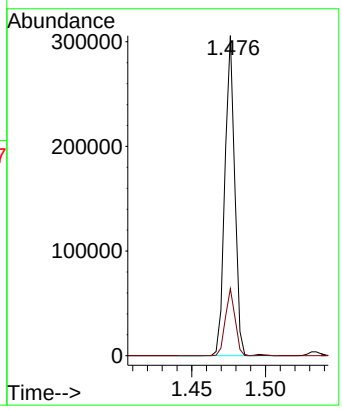


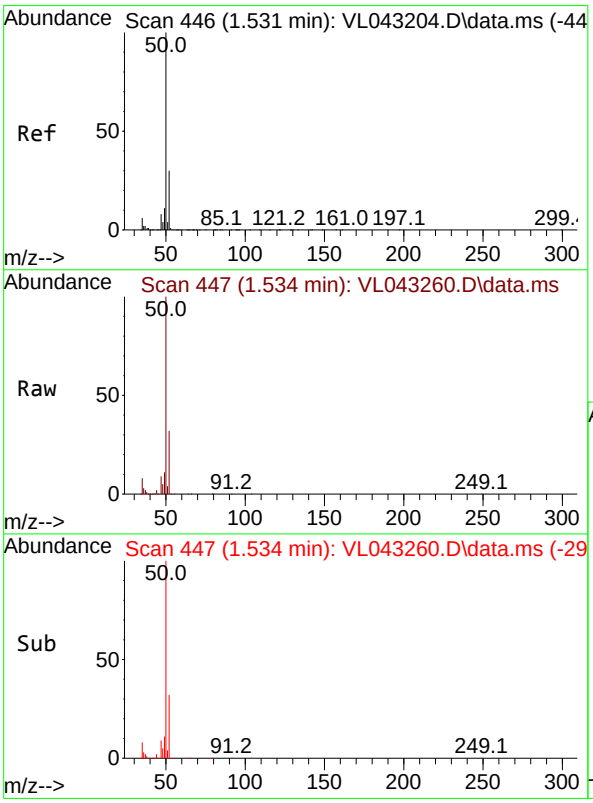
#3
Chlorodifluoromethane
Concen: 10.157 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 51 Resp: 142815

Ion	Ratio	Lower	Upper
51	100		
67	20.7	14.9	22.3

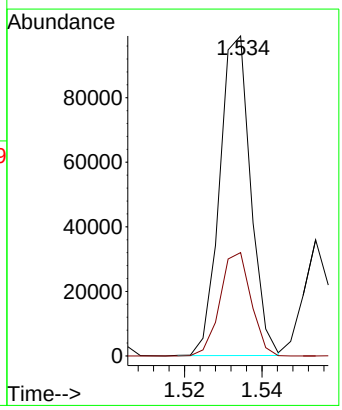


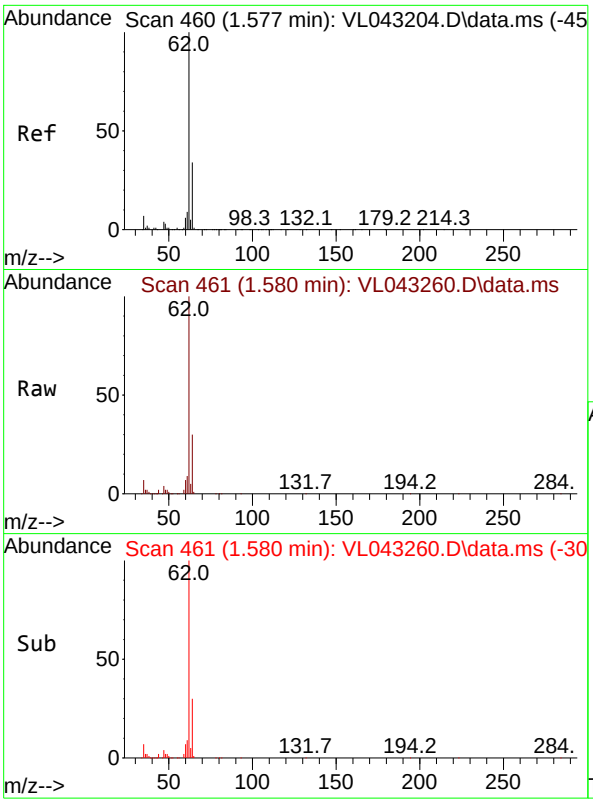


#4
Chloromethane
Concen: 10.302 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 50 Resp: 55072

Ion	Ratio	Lower	Upper
50	100		
52	32.4	24.1	36.1



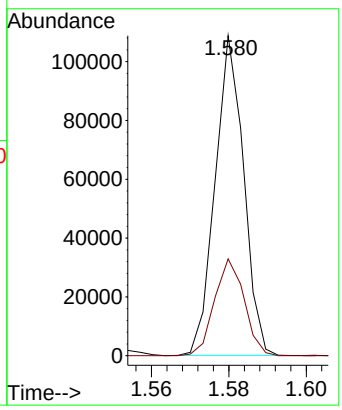


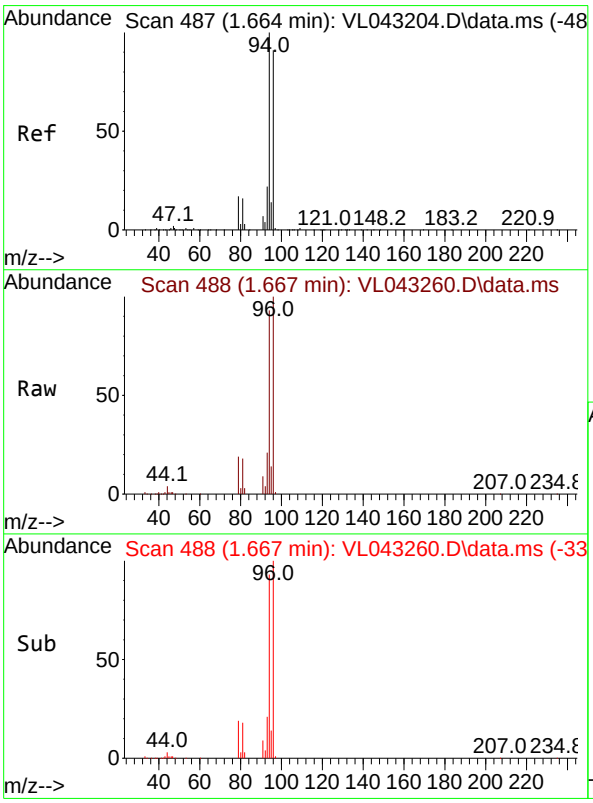
#5
Vinyl Chloride
Concen: 9.520 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 62 Resp: 55657

Ion	Ratio	Lower	Upper
62	100		
64	30.3	27.3	40.9

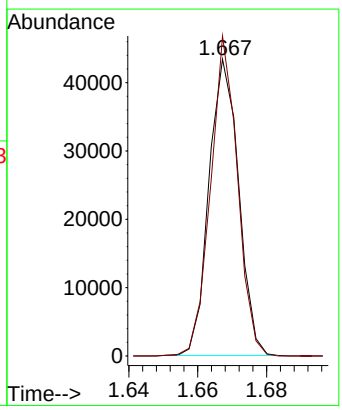


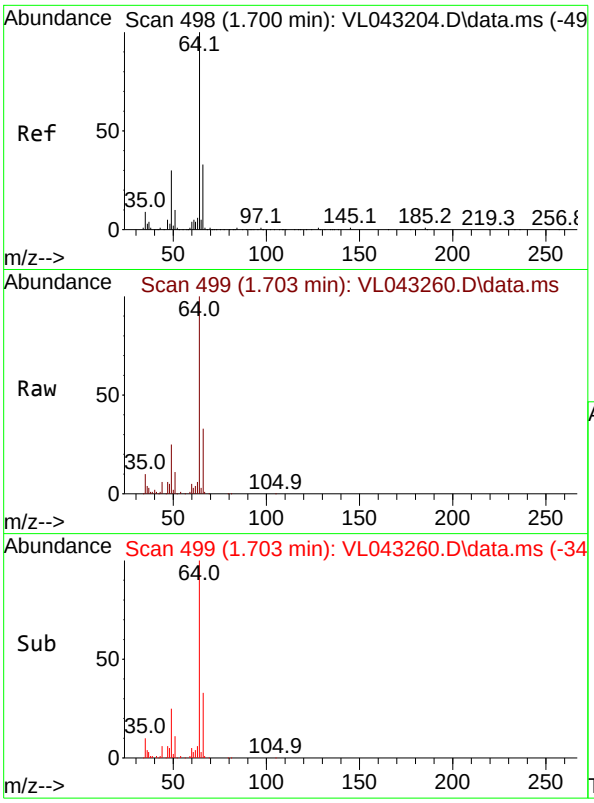


#6
Bromomethane
Concen: 9.126 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 94 Resp: 25862

Ion	Ratio	Lower	Upper
94	100		
96	108.0	72.9	109.3



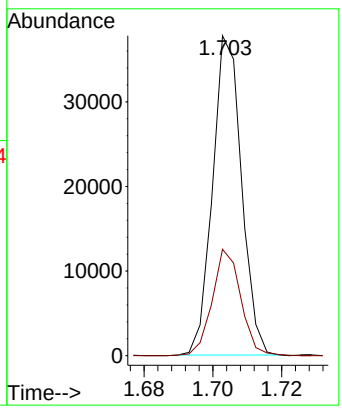


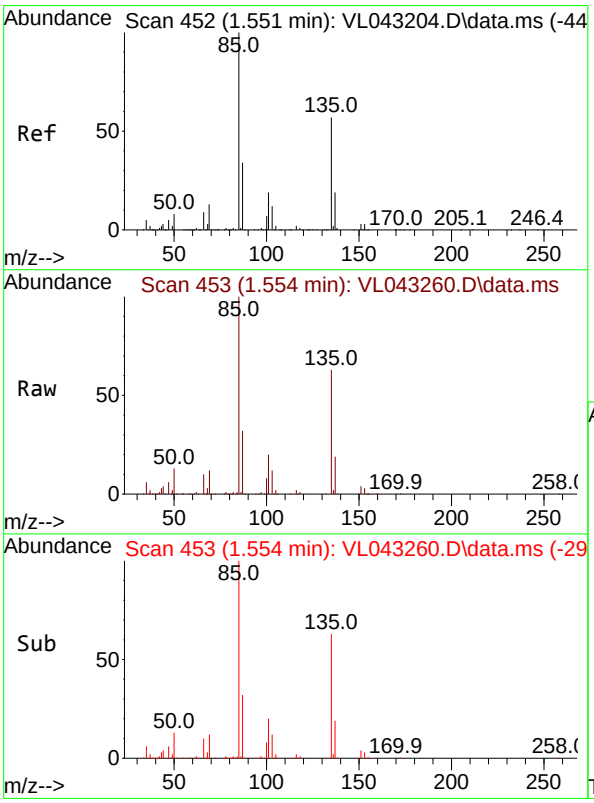
#7
Chloroethane
Concen: 9.670 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 64 Resp: 22017

Ion	Ratio	Lower	Upper
64	100		
66	33.3	26.8	40.2

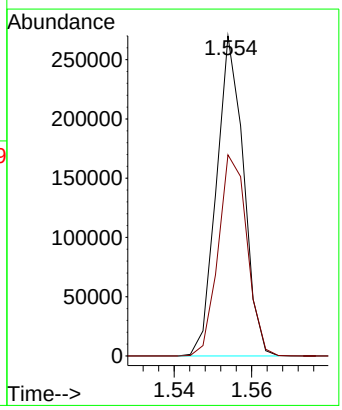


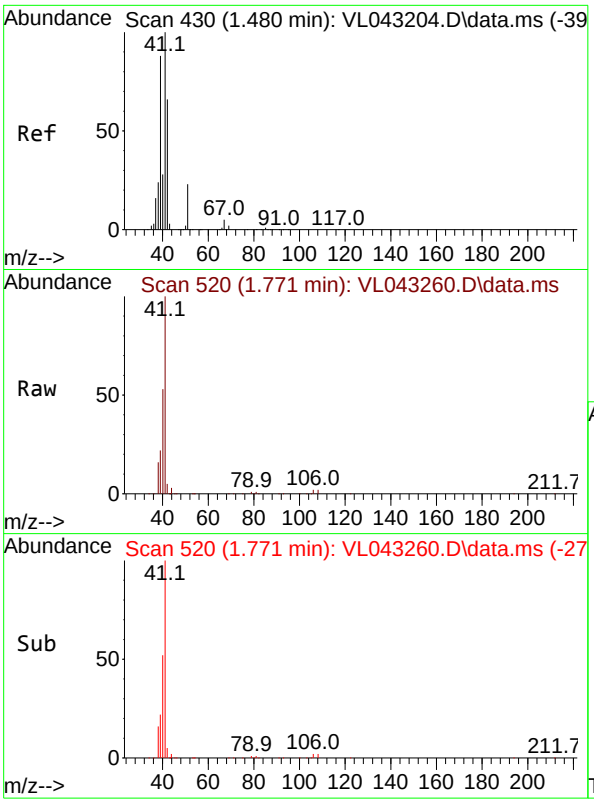


#8
Dichlorotetrafluoroethane
Concen: 11.021 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 85 Resp: 131076

Ion	Ratio	Lower	Upper
85	100		
135	67.1	52.6	79.0



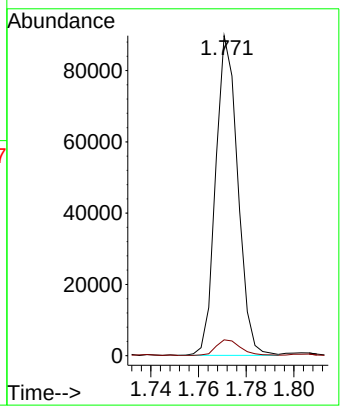


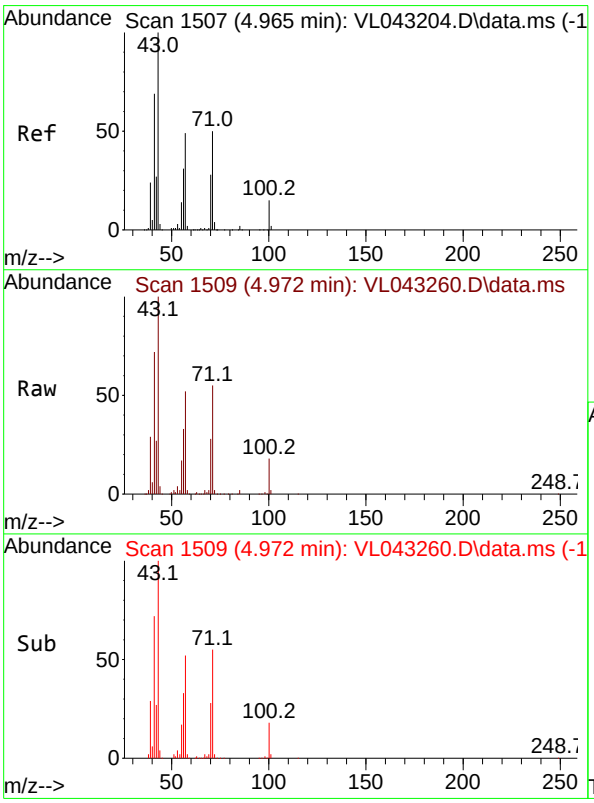
#9
Propene
Concen: 9.673 ppbv
RT: 1.771 min Scan# 5
Delta R.T. 0.291 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 41 Resp: 57758

Ion	Ratio	Lower	Upper
41	100		
42	5.1	3.7	5.5

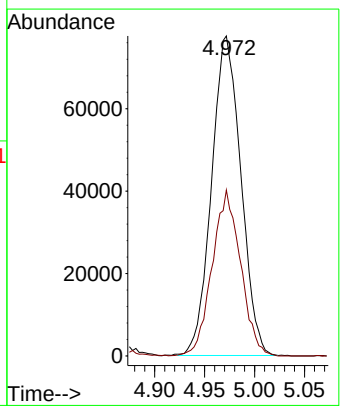


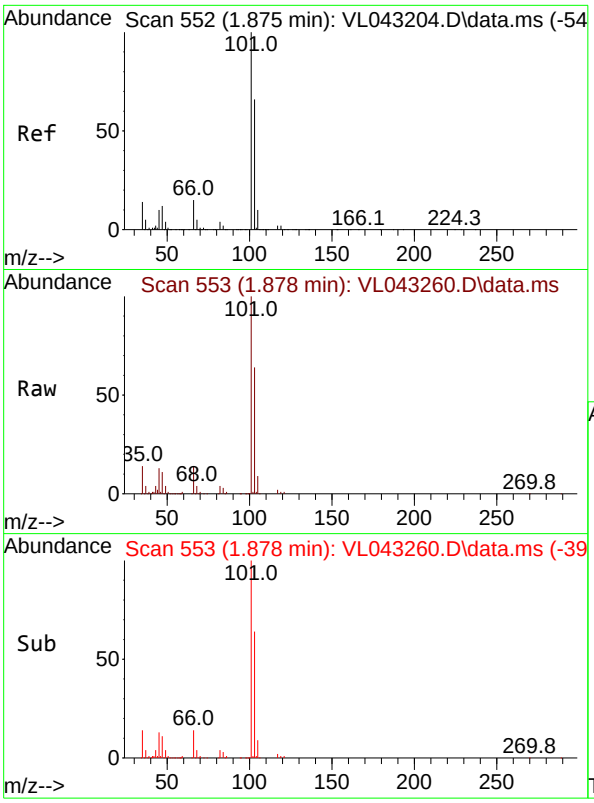


#10
Heptane
Concen: 8.906 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 43 Resp: 158256

Ion	Ratio	Lower	Upper
43	100		
57	50.2	39.7	59.5



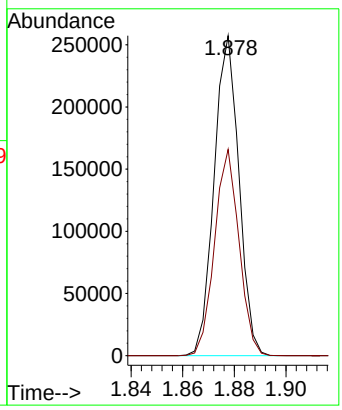


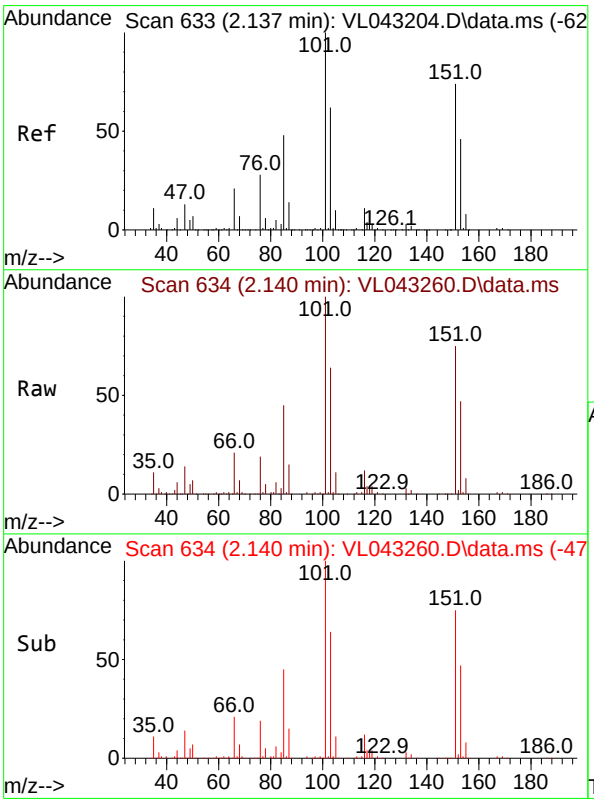
#11
Trichlorofluoromethane
Concen: 12.384 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:101 Resp: 171548

Ion	Ratio	Lower	Upper
101	100		
103	64.5	52.6	79.0

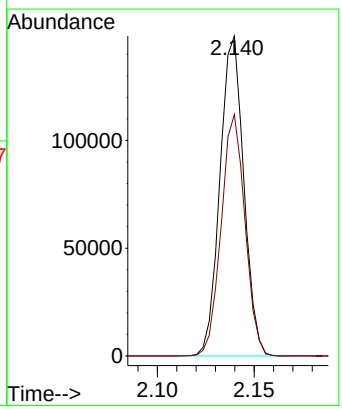


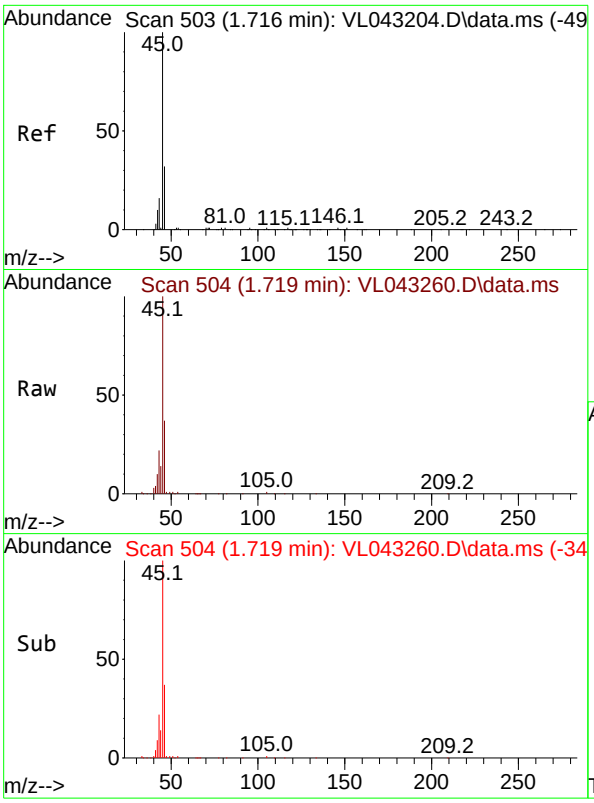


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.726 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:101 Resp: 126812

Ion	Ratio	Lower	Upper
101	100		
151	75.2	59.2	88.8



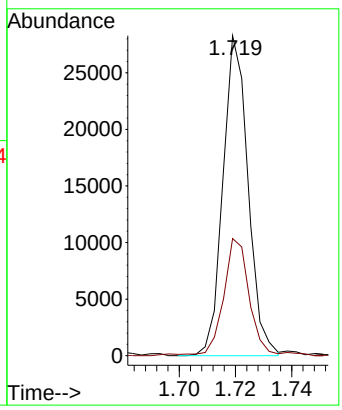


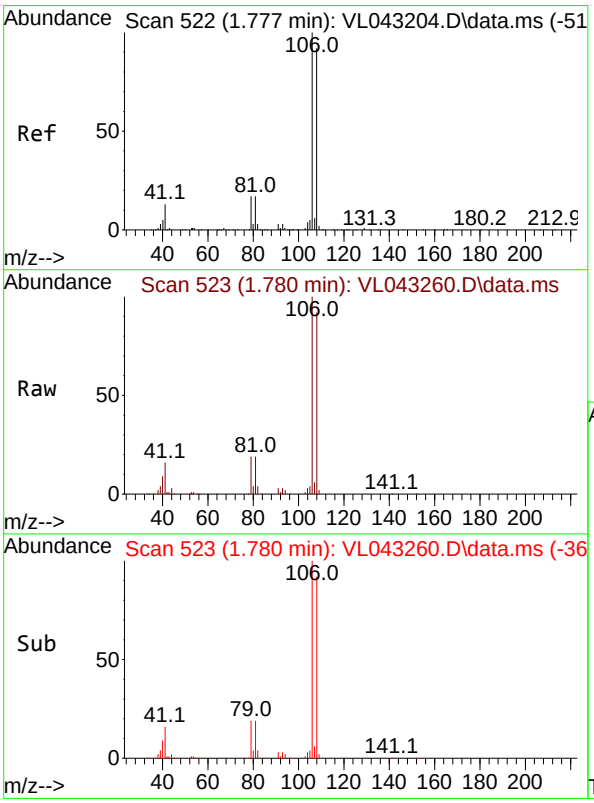
#13
Ethanol
Concen: 8.323 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 45 Resp: 17475

Ion	Ratio	Lower	Upper
45	100		
46	38.3	15.0	59.8

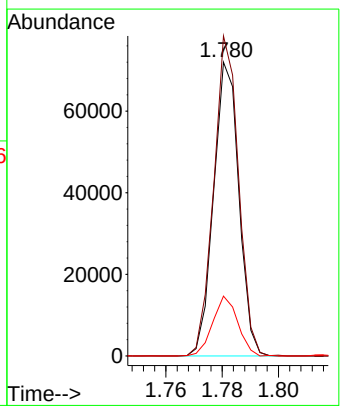


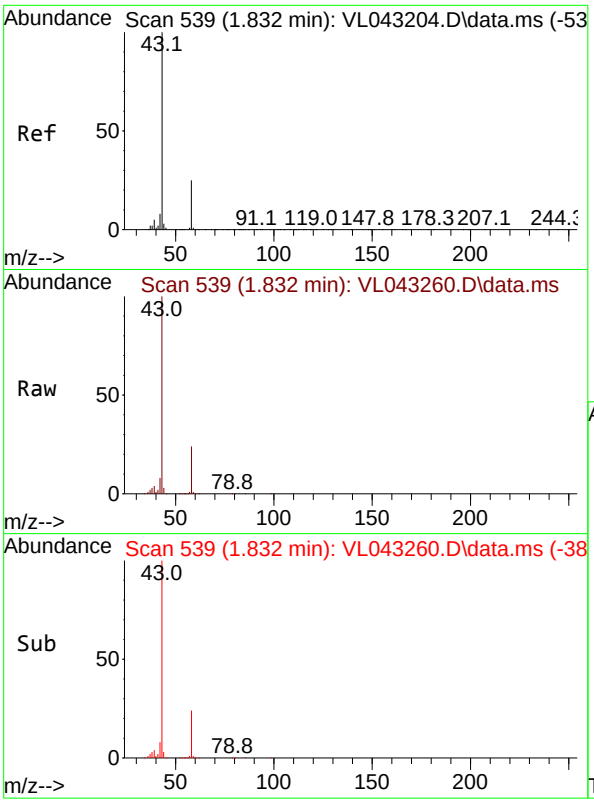


#14
Bromoethene
Concen: 10.813 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:108 Resp: 44833

Ion	Ratio	Lower	Upper
108	100		
106	107.3	88.9	133.3
79	20.4	16.5	24.7



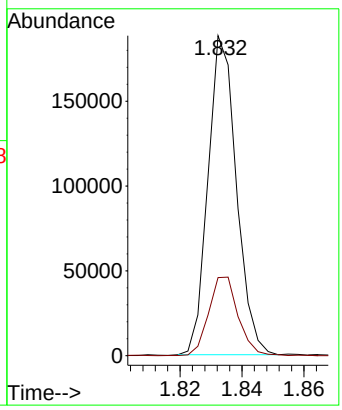


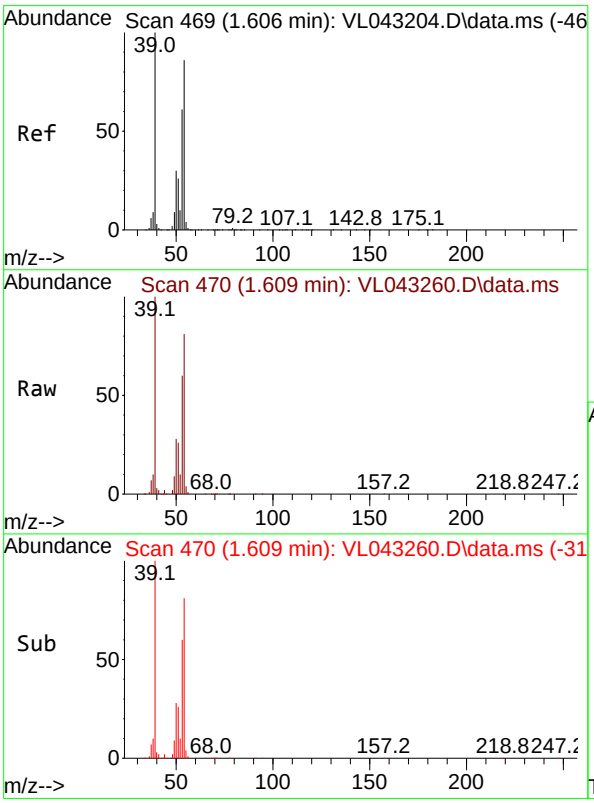
#15
Acetone
Concen: 8.497 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 43 Resp: 119678

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1

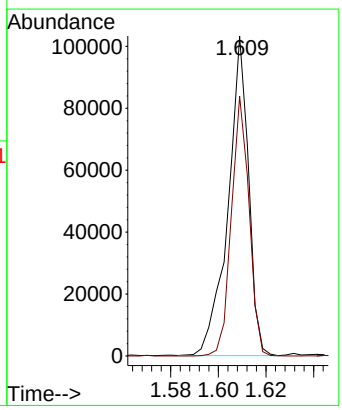


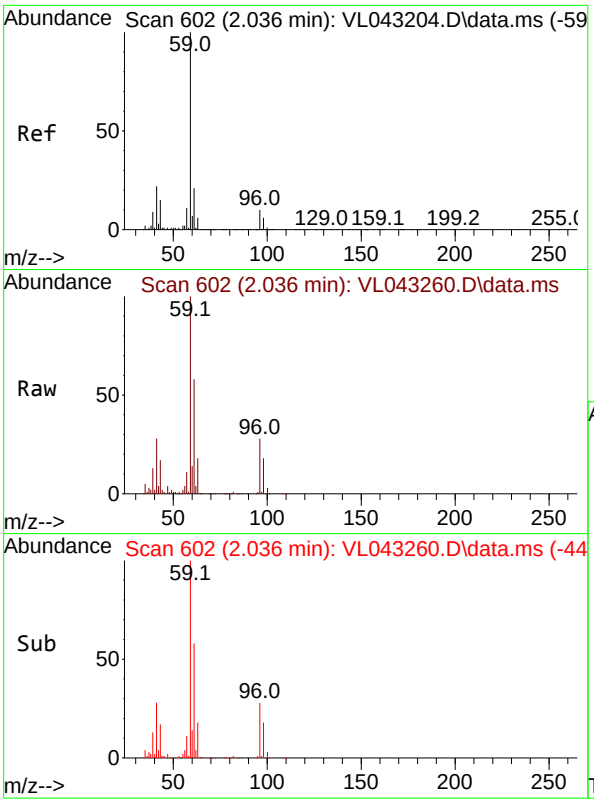


#16
1,3-Butadiene
Concen: 9.828 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 39 Resp: 61711

Ion	Ratio	Lower	Upper
39	100		
54	70.0	59.4	89.2



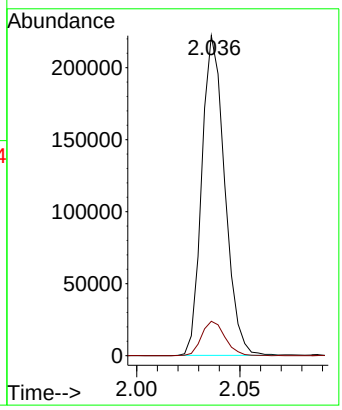


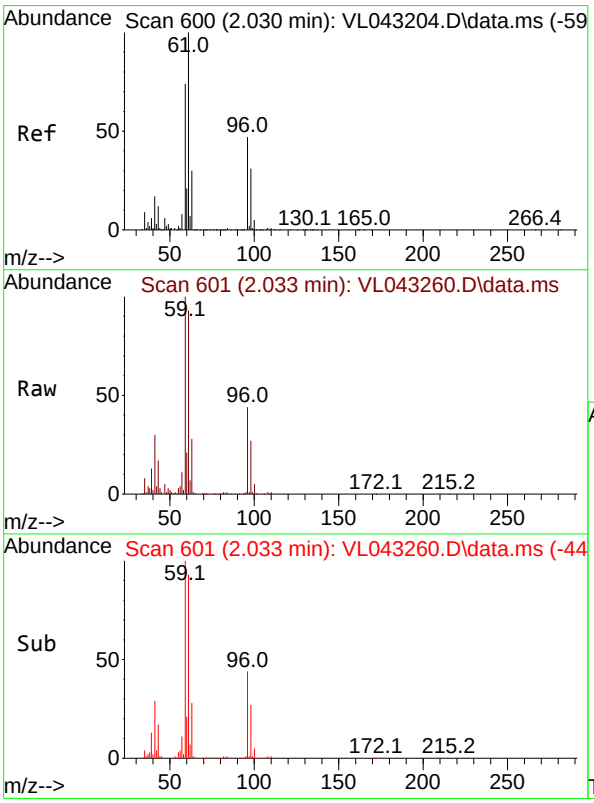
#17
tert-Butyl alcohol
Concen: 9.268 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 59 Resp: 171332

Ion	Ratio	Lower	Upper
59	100		
57	11.0	9.0	13.4

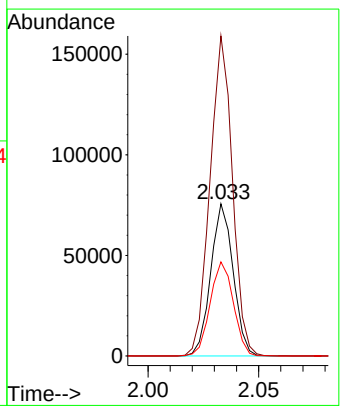


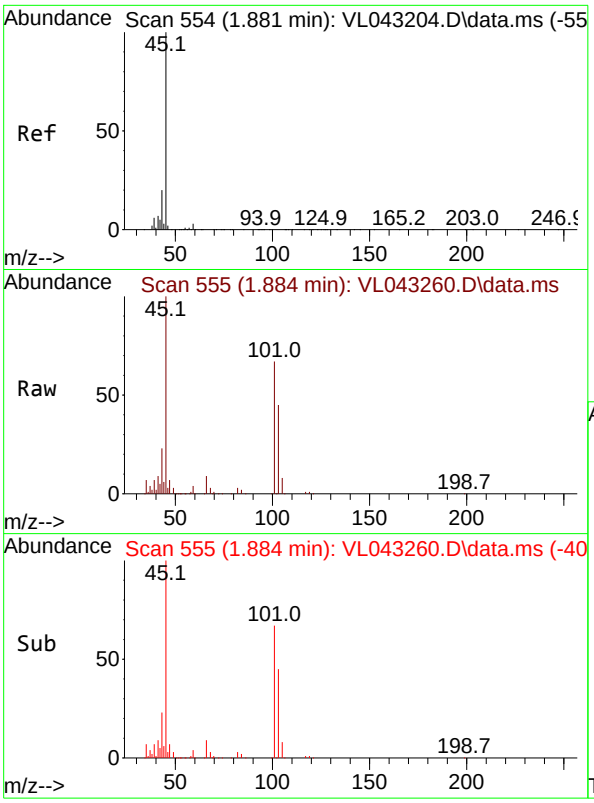


#18
1,1-Dichloroethene
Concen: 10.592 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 96 Resp: 53337

Ion	Ratio	Lower	Upper
96	100		
61	210.4	170.6	255.8
98	61.9	52.2	78.4



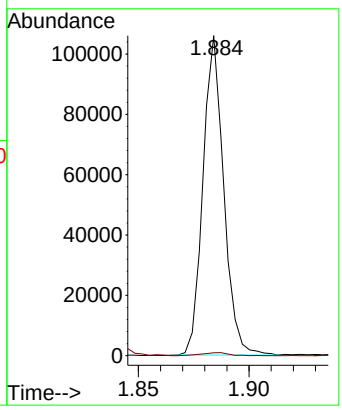


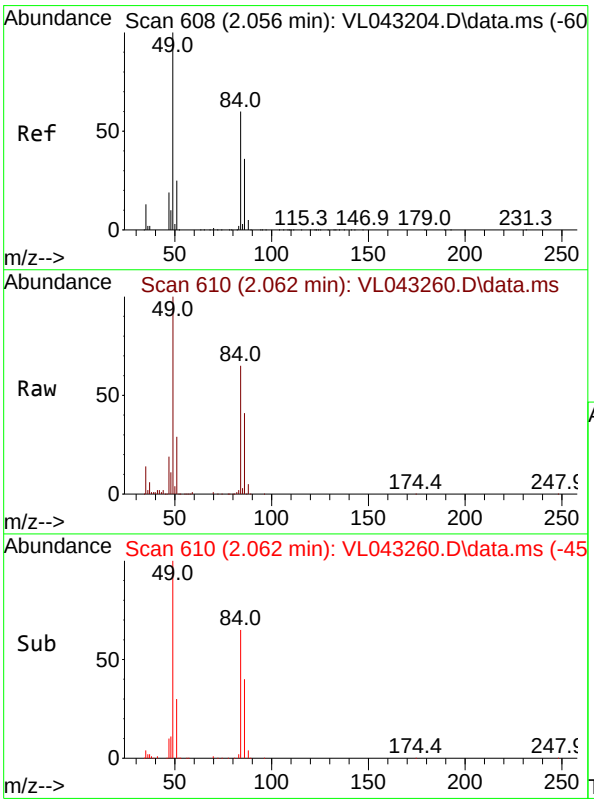
#19
Isopropyl Alcohol
Concen: 8.642 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 45 Resp: 68773

Ion	Ratio	Lower	Upper
45	100		
58	45.1	31.3	46.9

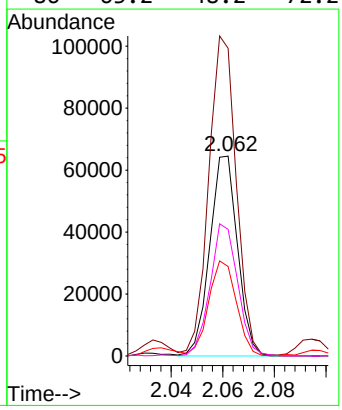


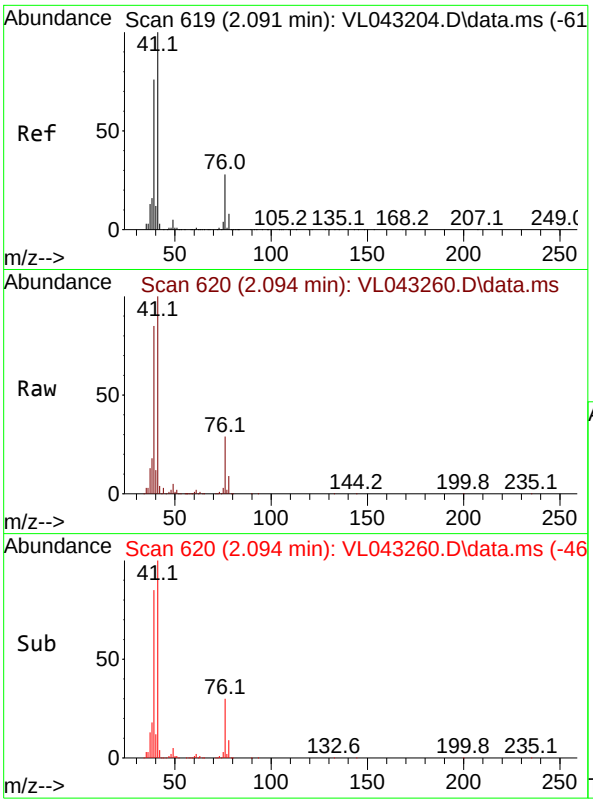


#20
Methylene Chloride
Concen: 11.763 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 84 Resp: 48243

Ion	Ratio	Lower	Upper
84	100		
49	153.6	132.9	199.3
51	44.5	34.8	52.2
86	63.2	48.2	72.2



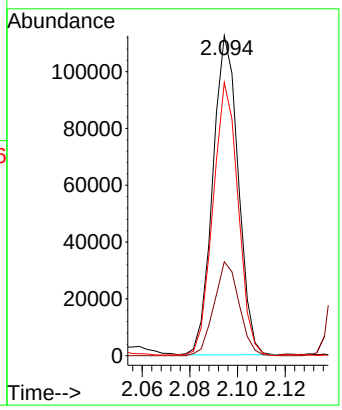


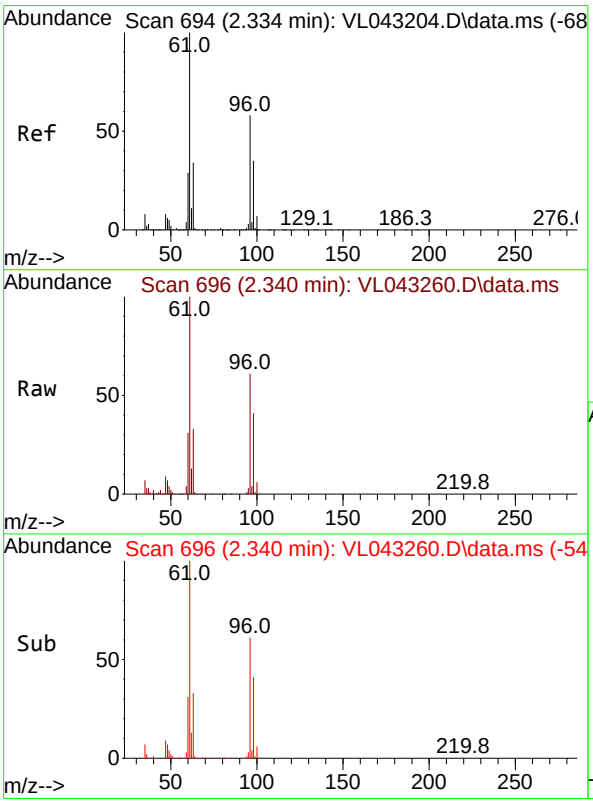
#21
Allyl Chloride
Concen: 8.808 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 41 Resp: 83462

Ion	Ratio	Lower	Upper
41	100		
76	29.0	22.1	33.1
39	84.2	61.0	91.4

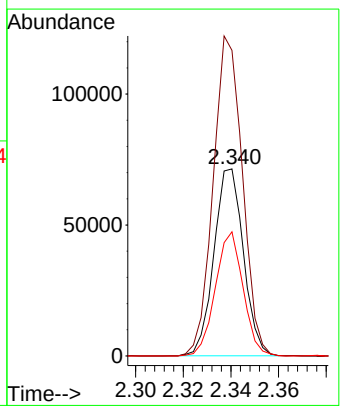


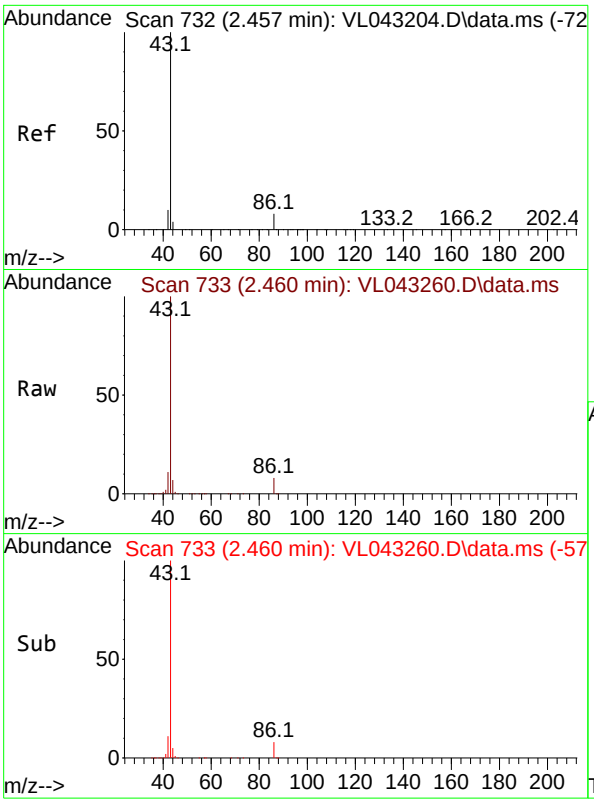


#22
trans-1,2-Dichloroethene
Concen: 10.647 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 96 Resp: 61279

Ion	Ratio	Lower	Upper
96	100		
61	163.5	139.0	208.6
98	66.4	49.4	74.2



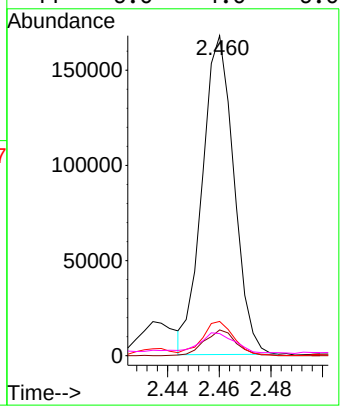


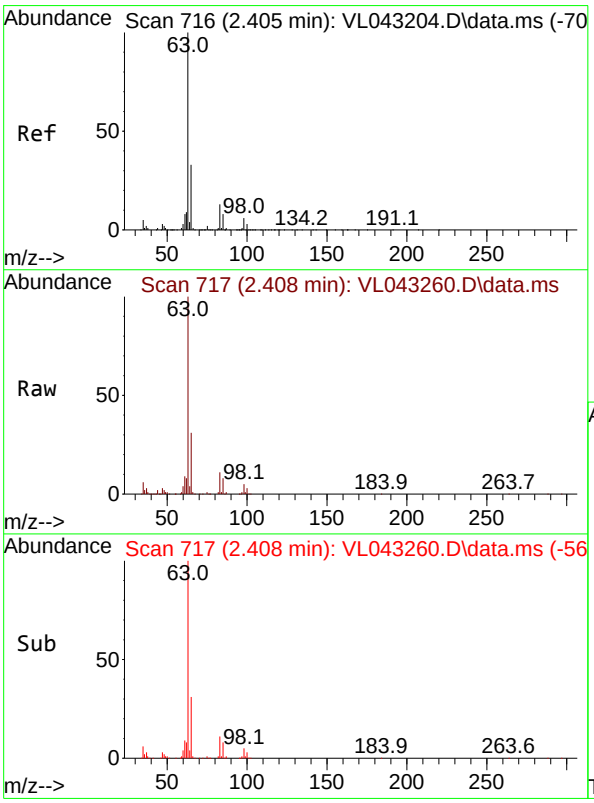
#23
Vinyl Acetate
Concen: 8.393 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 43 Resp: 142709

Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.2	9.2
42	10.6	8.0	12.0
44	6.0	4.0	6.0

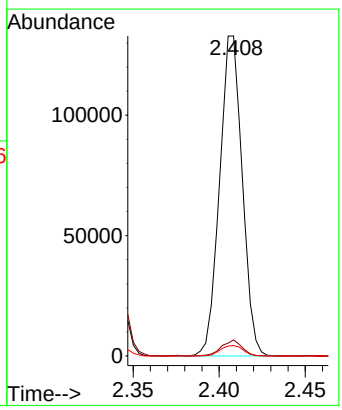


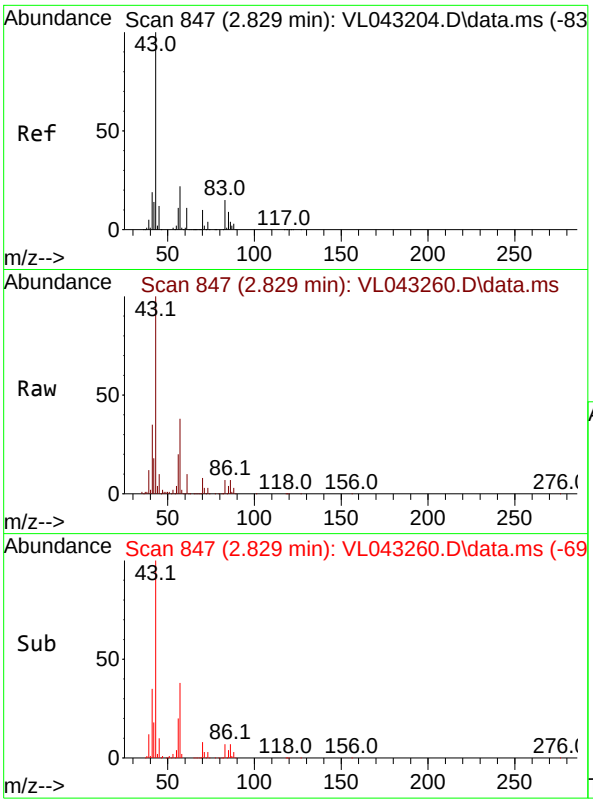


#24
1,1-Dichloroethane
Concen: 10.962 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 63 Resp: 121792

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.8	8.4
100	3.3	1.3	3.9



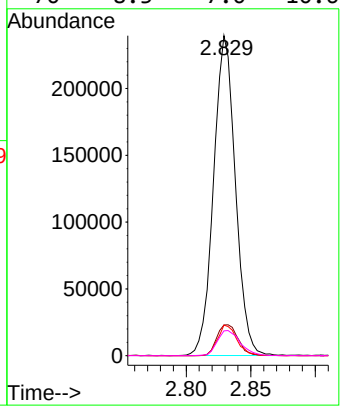


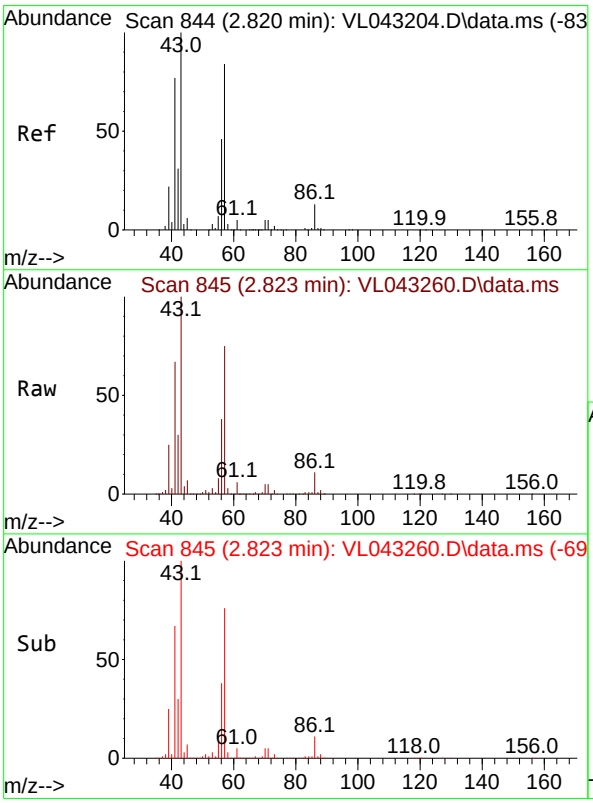
#25
Ethyl Acetate
Concen: 9.262 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 43 Resp: 281330

Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	8.5	7.0	10.4
70	8.3	7.0	10.6

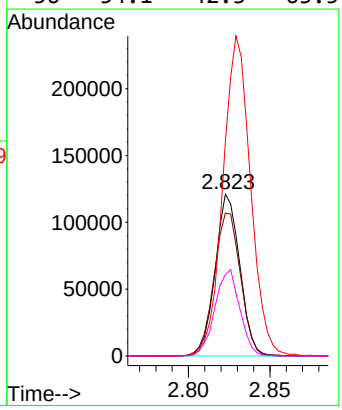


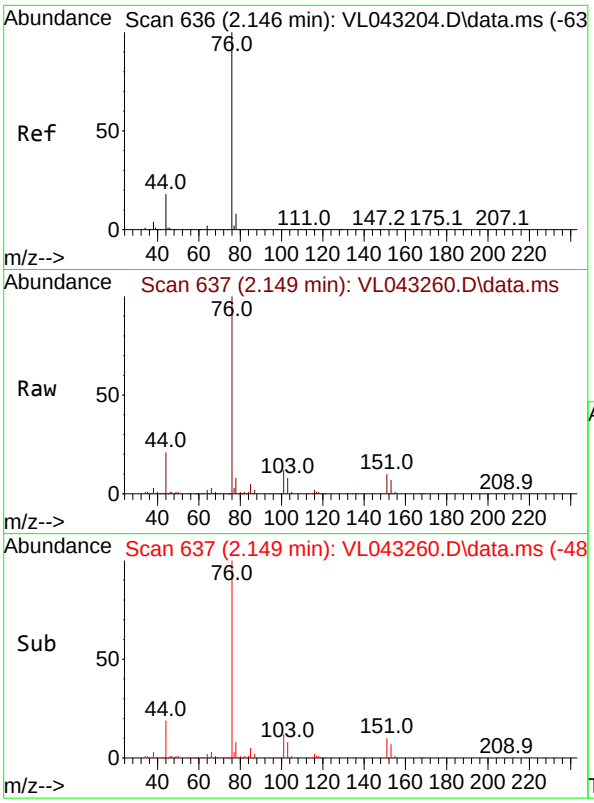


#26
Hexane
Concen: 9.501 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 57 Resp: 126532

Ion	Ratio	Lower	Upper
57	100		
41	95.8	74.6	111.8
43	224.0	179.0	268.4
56	54.1	42.3	63.5



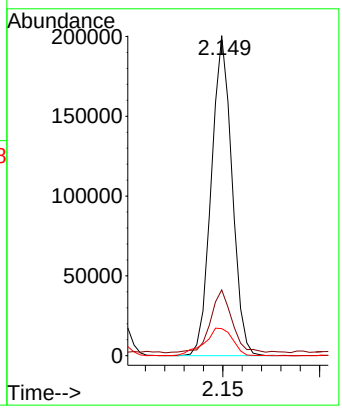


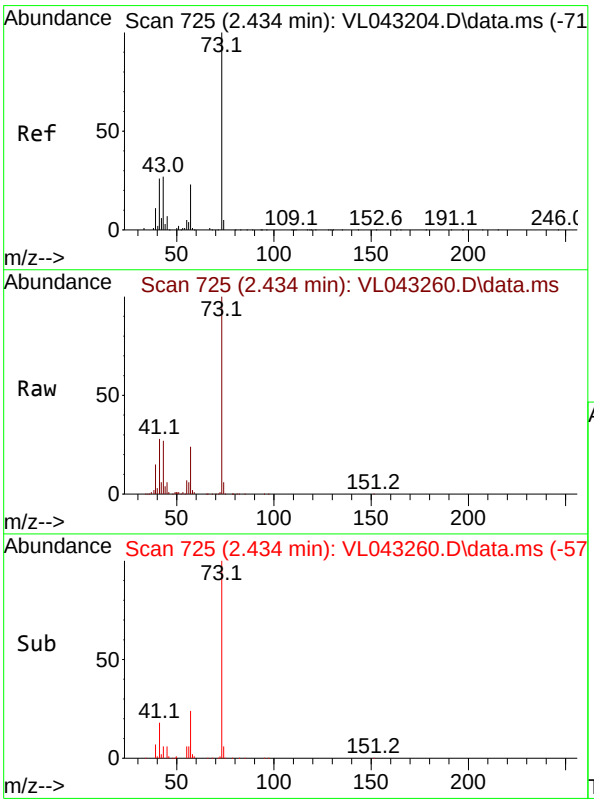
#27
Carbon Disulfide
Concen: 10.942 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 76 Resp: 148765

Ion	Ratio	Lower	Upper
76	100		
44	20.0	16.1	24.1
78	11.8	9.6	14.4

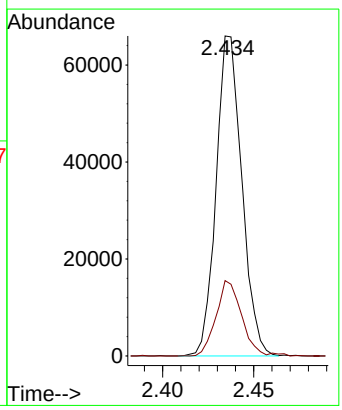


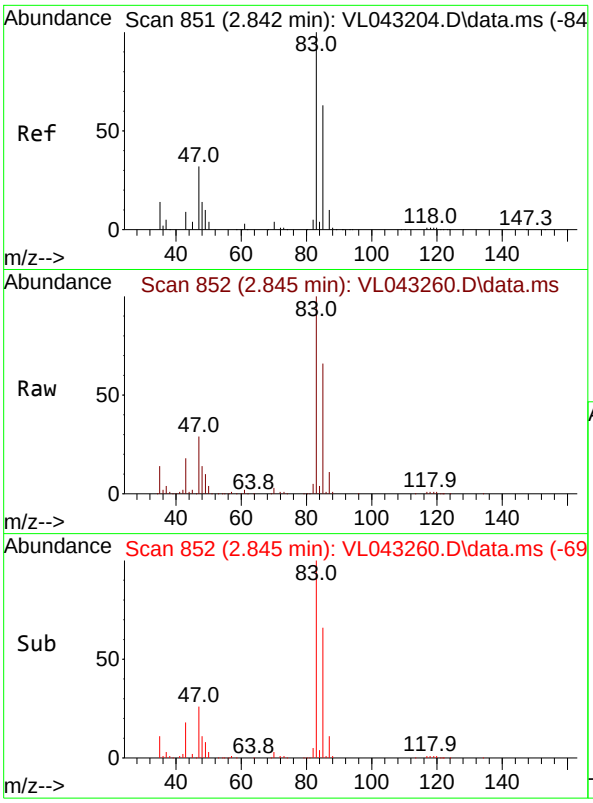


#28
Methyl tert-Butyl Ether
Concen: 9.894 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 73 Resp: 64675

Ion	Ratio	Lower	Upper
73	100		
57	23.6	19.8	29.8



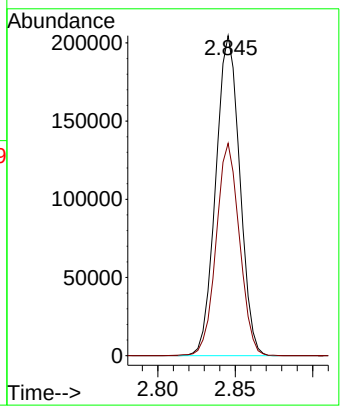


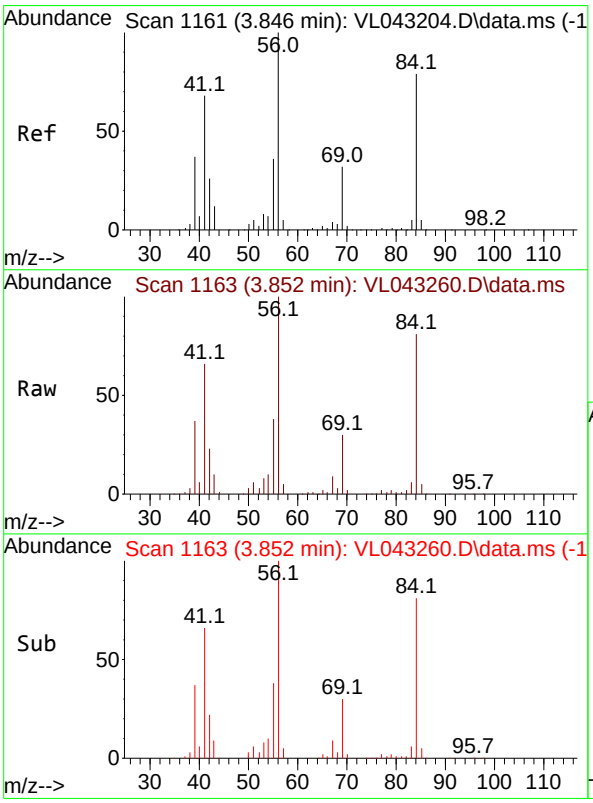
#29
Chloroform
Concen: 11.652 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 83 Resp: 220567

Ion	Ratio	Lower	Upper
83	100		
85	66.3	50.5	75.7

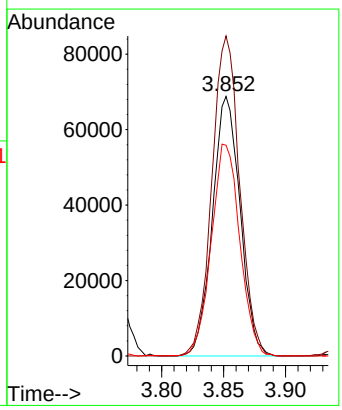


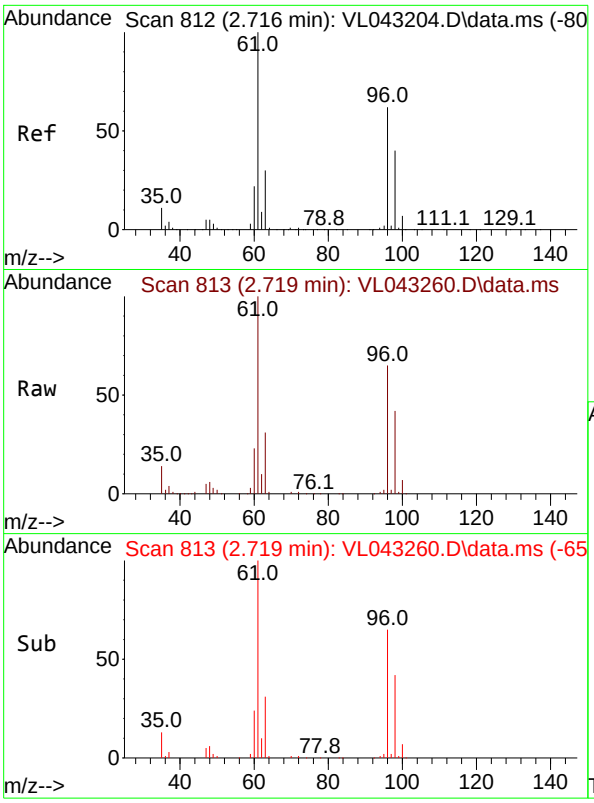


#30
Cyclohexane
Concen: 9.591 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 84 Resp: 107088

Ion	Ratio	Lower	Upper
84	100		
56	123.6	104.7	157.1
41	83.9	69.0	103.6



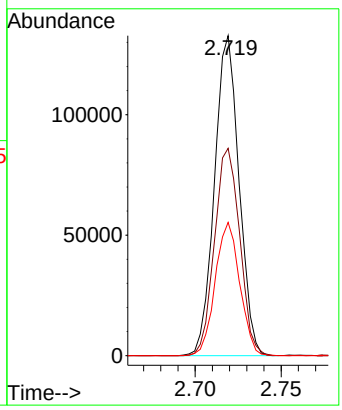


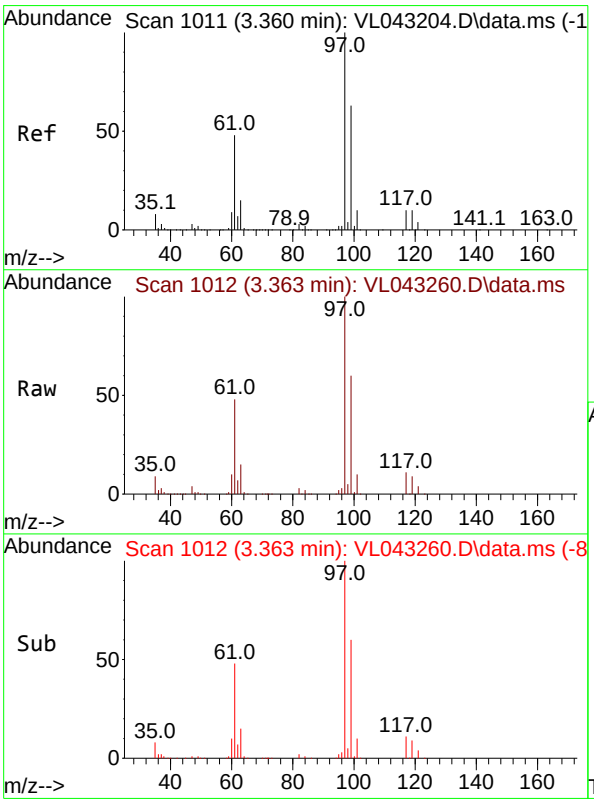
#31
cis-1,2-Dichloroethene
Concen: 9.953 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 61 Resp: 131746

Ion	Ratio	Lower	Upper
61	100		
96	64.8	49.3	73.9
98	41.7	32.1	48.1

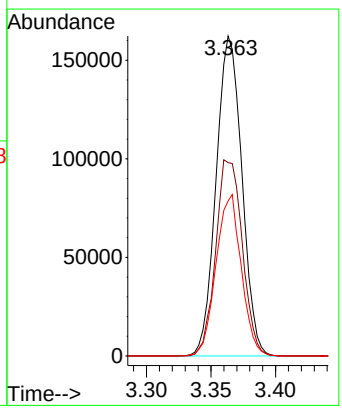


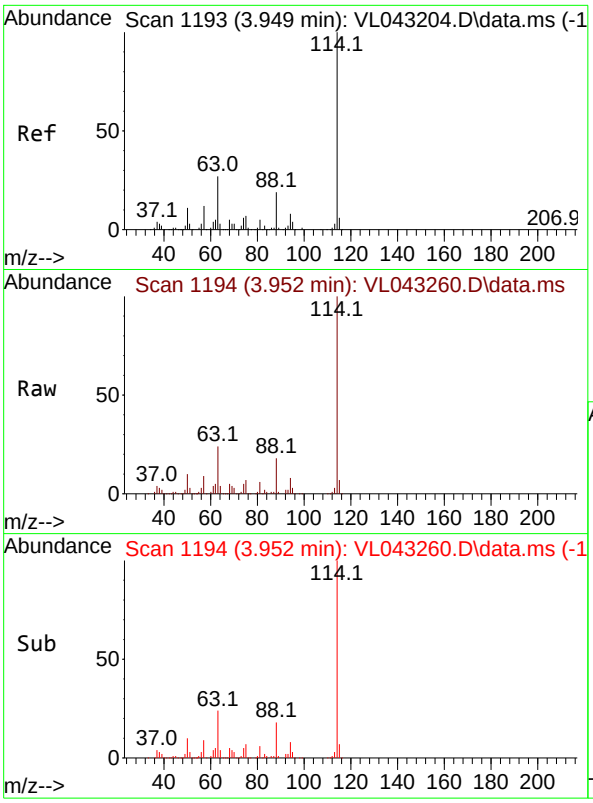


#32
1,1,1-Trichloroethane
Concen: 11.168 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 97 Resp: 225329

Ion	Ratio	Lower	Upper
97	100		
99	63.2	50.3	75.5
61	49.5	38.9	58.3



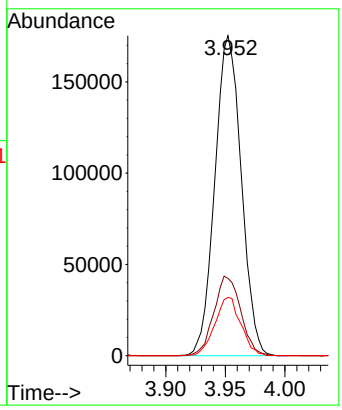


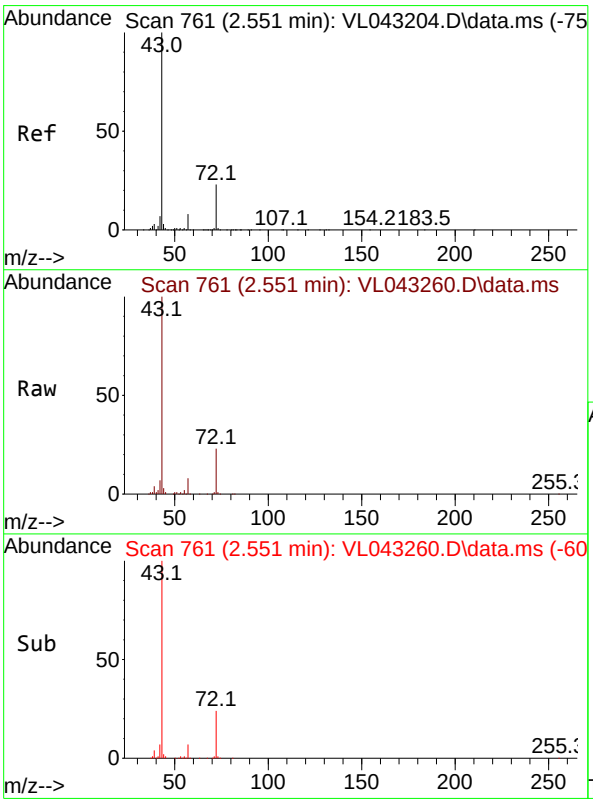
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:114 Resp: 270113

Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.0	31.6
88	17.9	14.9	22.3

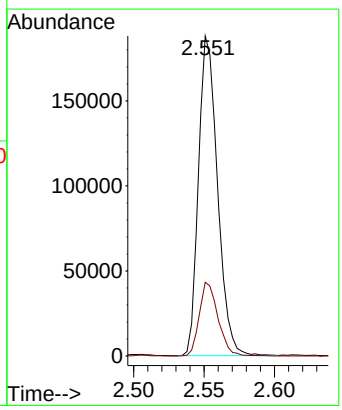


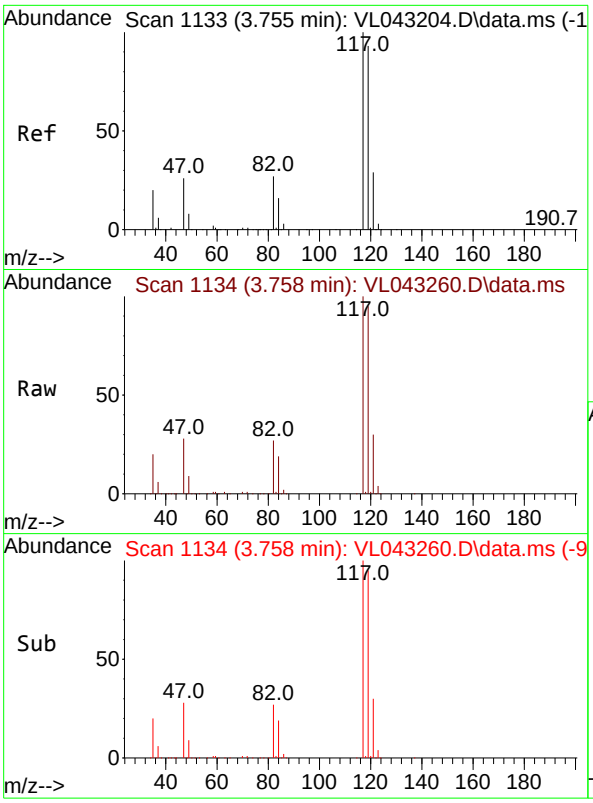


#34
2-Butanone
Concen: 9.287 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 43 Resp: 177069

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.1	27.1



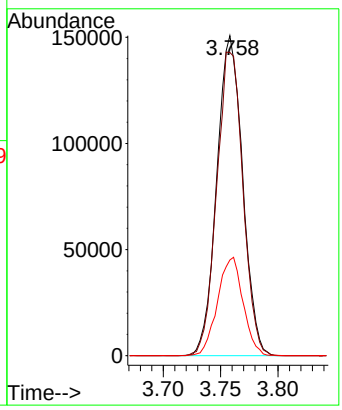


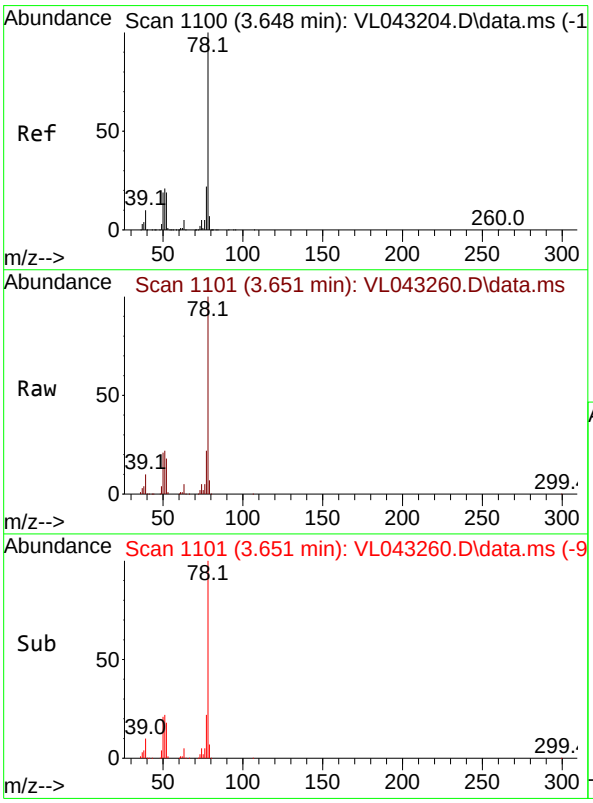
#35
Carbon Tetrachloride
Concen: 11.515 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:117 Resp: 236089

Ion	Ratio	Lower	Upper
117	100		
119	94.7	74.6	112.0
121	29.9	23.2	34.8

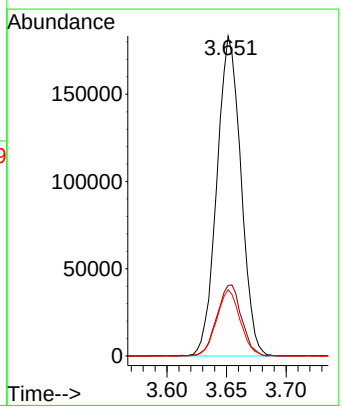


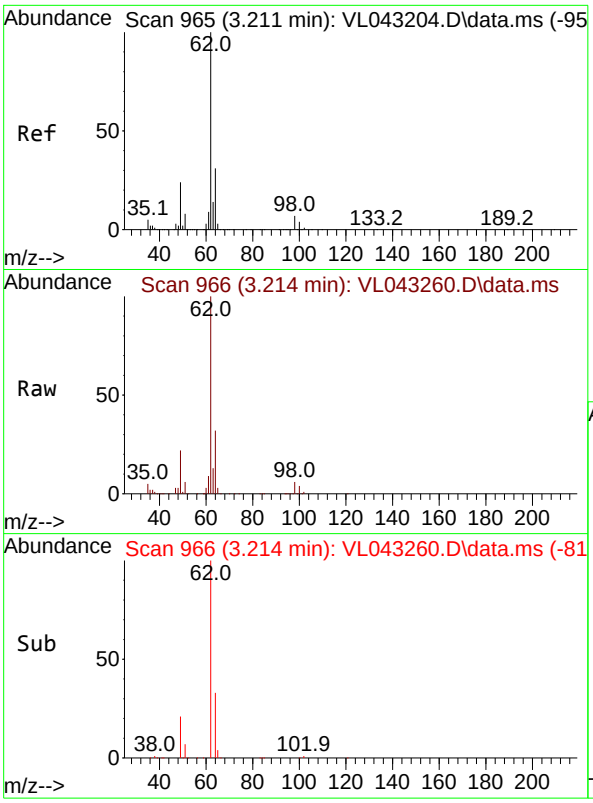


#36
Benzene
Concen: 9.954 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 78 Resp: 257481

Ion	Ratio	Lower	Upper
78	100		
77	22.1	17.5	26.3
50	20.7	15.5	23.3



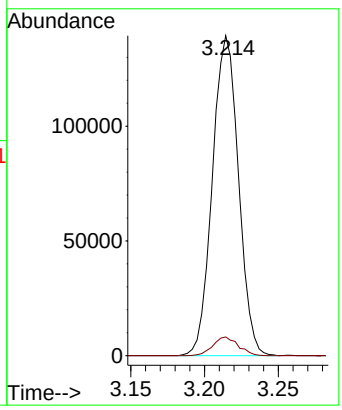


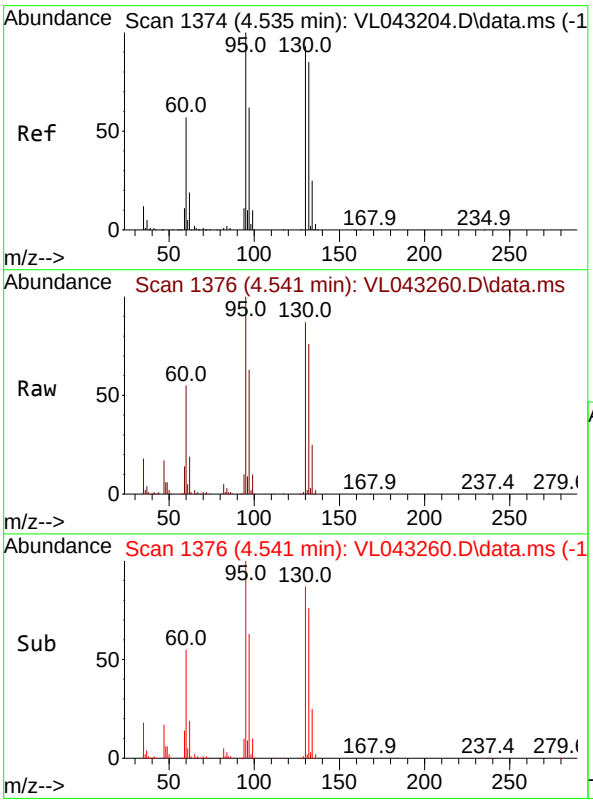
#37
1,2-Dichloroethane
Concen: 11.329 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 62 Resp: 171416

Ion	Ratio	Lower	Upper
62	100		
98	5.7	5.5	8.3

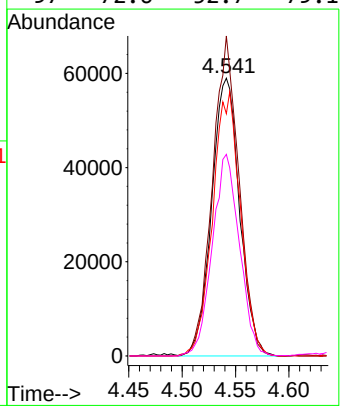


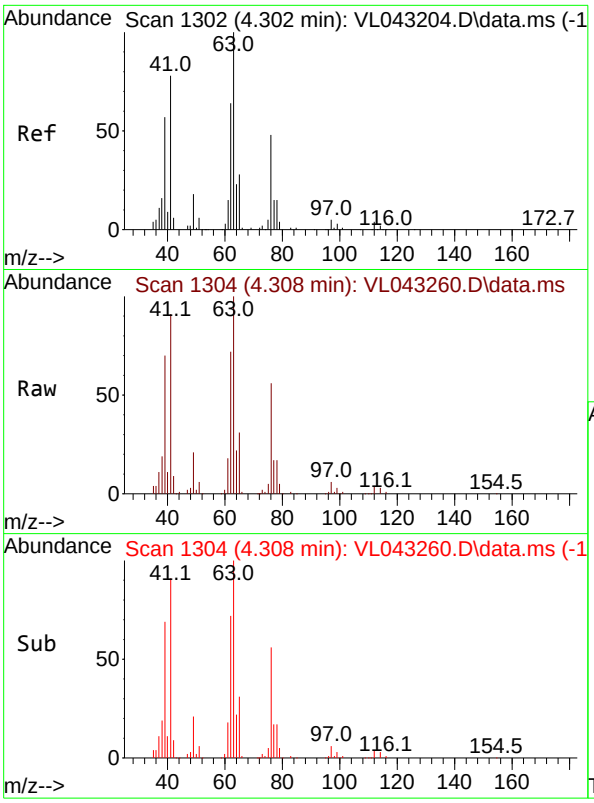


#38
Trichloroethene
Concen: 10.582 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:130 Resp: 107097

Ion	Ratio	Lower	Upper
130	100		
95	115.2	85.7	128.5
132	87.2	73.4	110.0
97	72.6	52.7	79.1



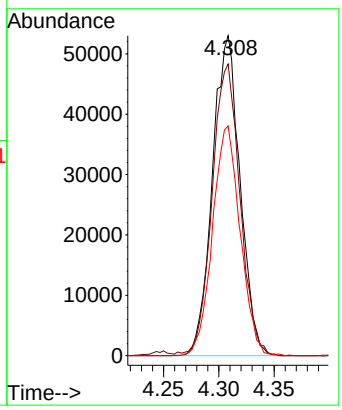


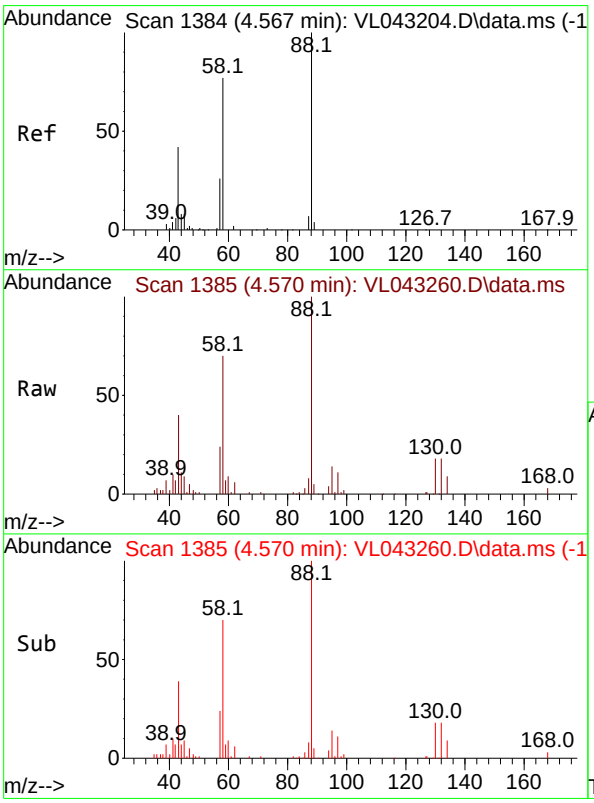
#39
1,2-Dichloropropane
Concen: 9.724 ppbv
RT: 4.308 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 63 Resp: 92063

Ion	Ratio	Lower	Upper
63	100		
41	91.1	62.6	93.8
62	71.8	51.0	76.6

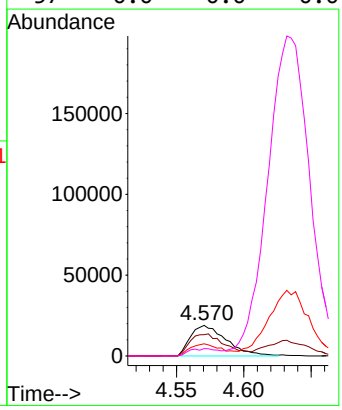


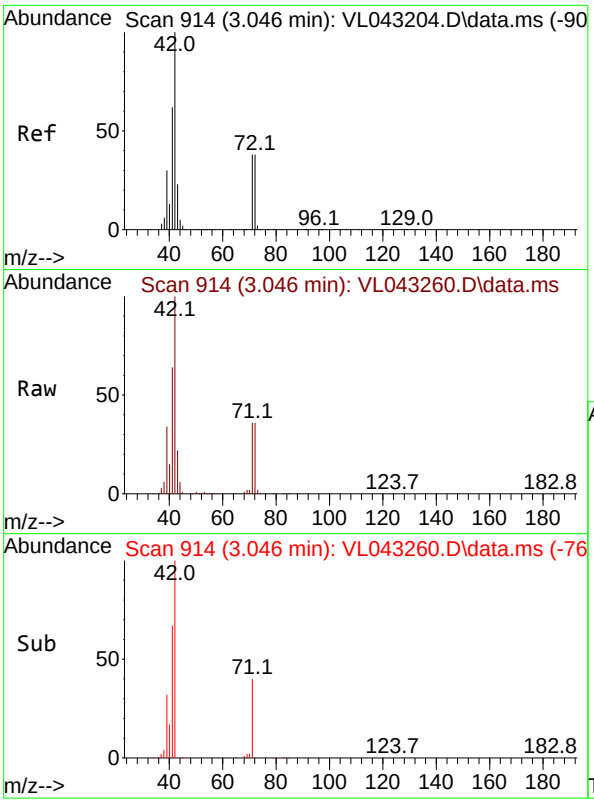


#40
1,4-Dioxane
Concen: 8.236 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 88 Resp: 35055

Ion	Ratio	Lower	Upper
88	100		
58	72.0	63.0	94.6
43	36.6	32.5	48.7
57	0.0	0.0	0.0



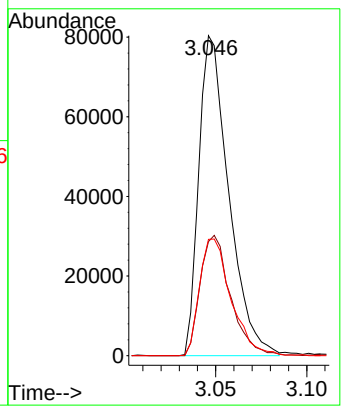


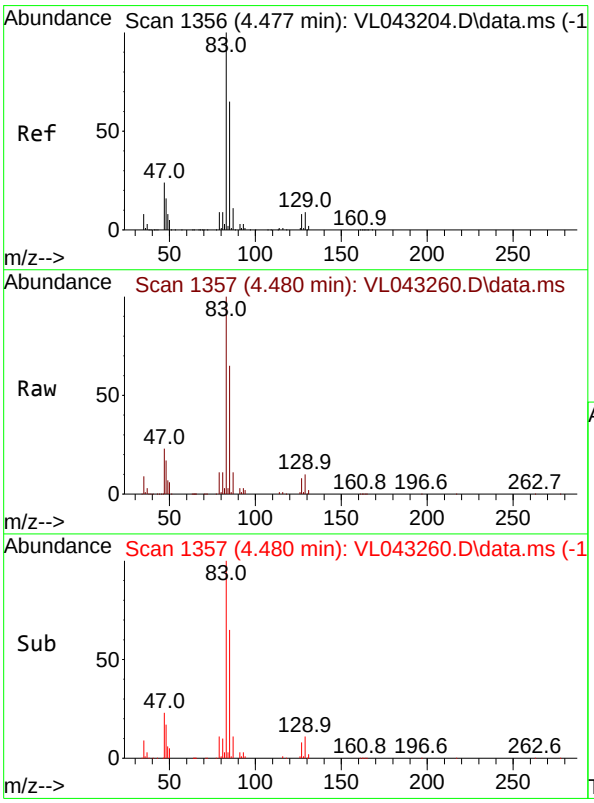
#41
Tetrahydrofuran
Concen: 8.739 ppbv
RT: 3.046 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 42 Resp: 92013

Ion	Ratio	Lower	Upper
42	100		
72	38.4	30.6	46.0
71	38.5	30.5	45.7

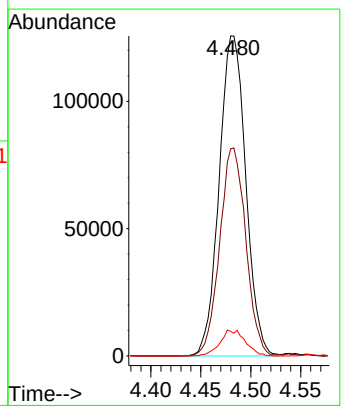


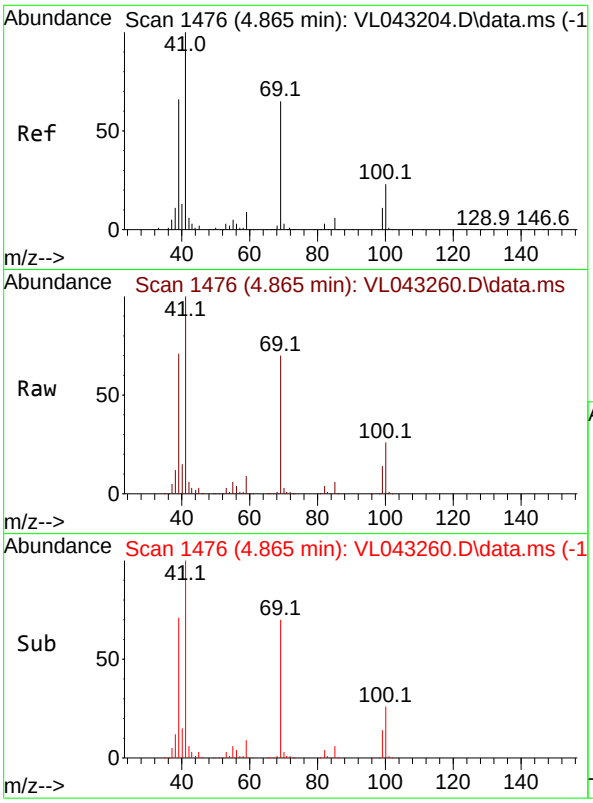


#42
Bromodichloromethane
Concen: 11.161 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 83 Resp: 232959

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.7	77.5
127	7.6	6.3	9.5



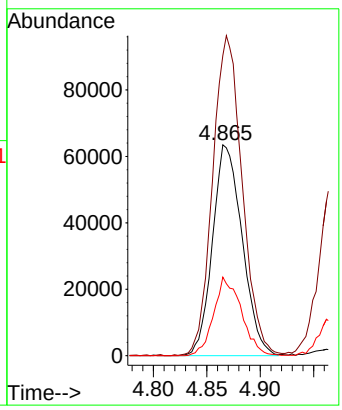


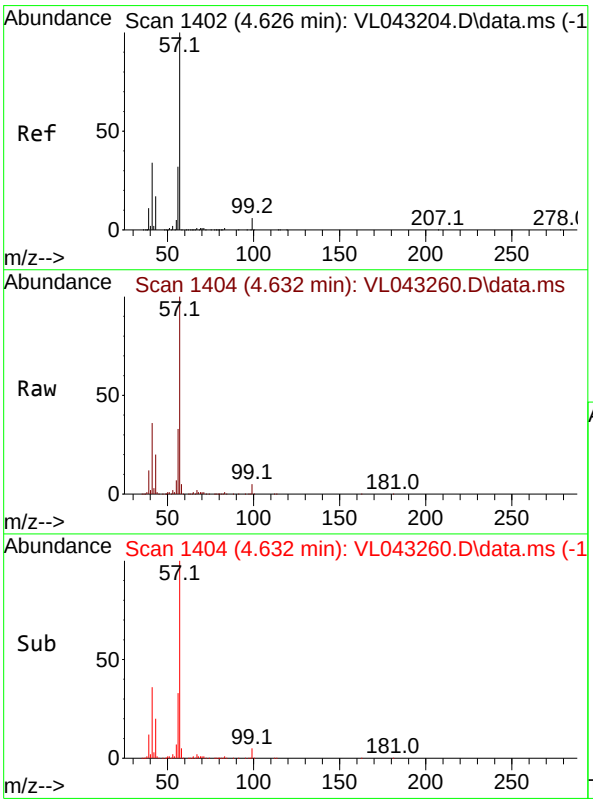
#43
Methyl Methacrylate
Concen: 8.920 ppbv
RT: 4.865 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 69 Resp: 122481

Ion	Ratio	Lower	Upper
69	100		
41	151.7	126.7	190.1
100	34.8	28.6	43.0

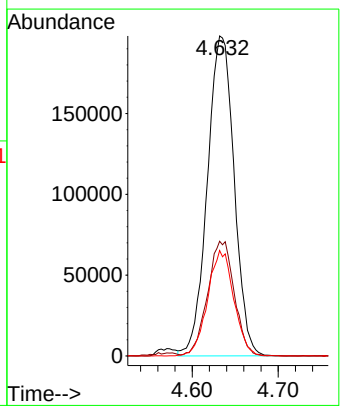


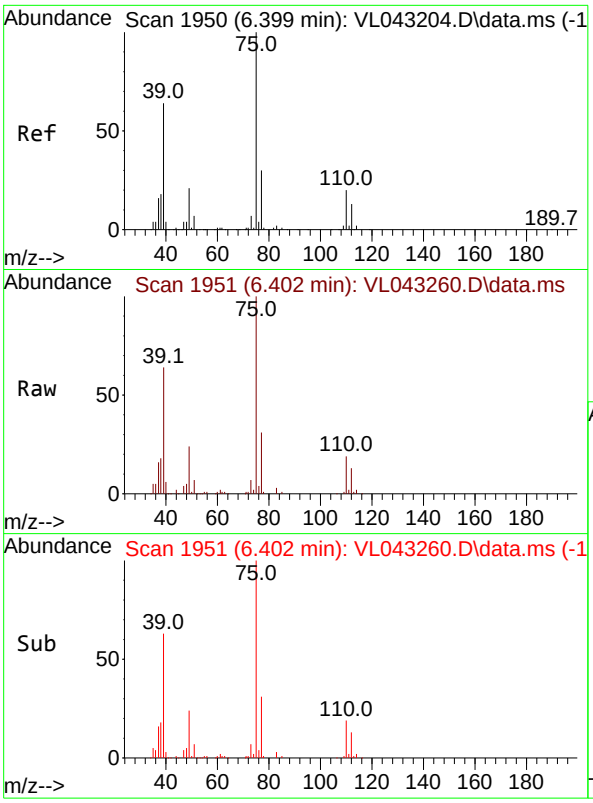


#44
2,2,4-Trimethylpentane
Concen: 9.646 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 57 Resp: 428558

Ion	Ratio	Lower	Upper
57	100		
41	36.7	28.0	42.0
56	32.2	25.6	38.4



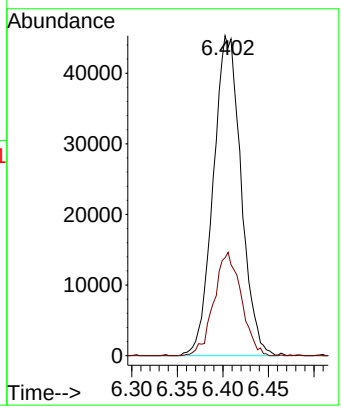


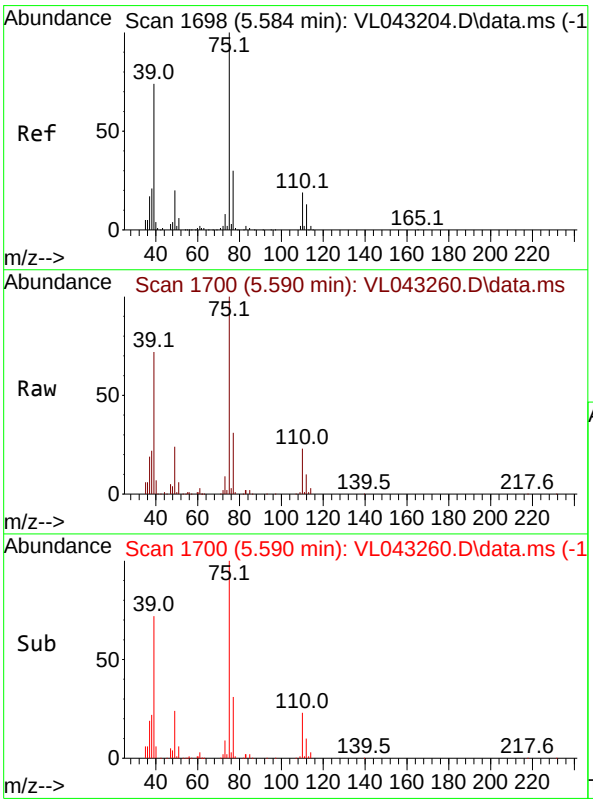
#45
t-1,3-Dichloropropene
Concen: 7.511 ppbv
RT: 6.402 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 75 Resp: 96138

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.3	36.5

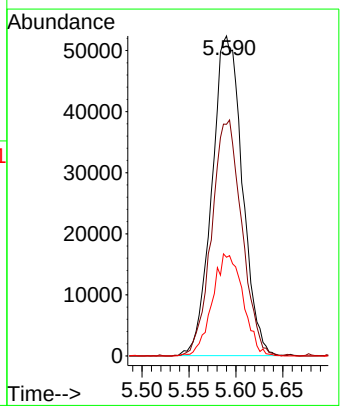


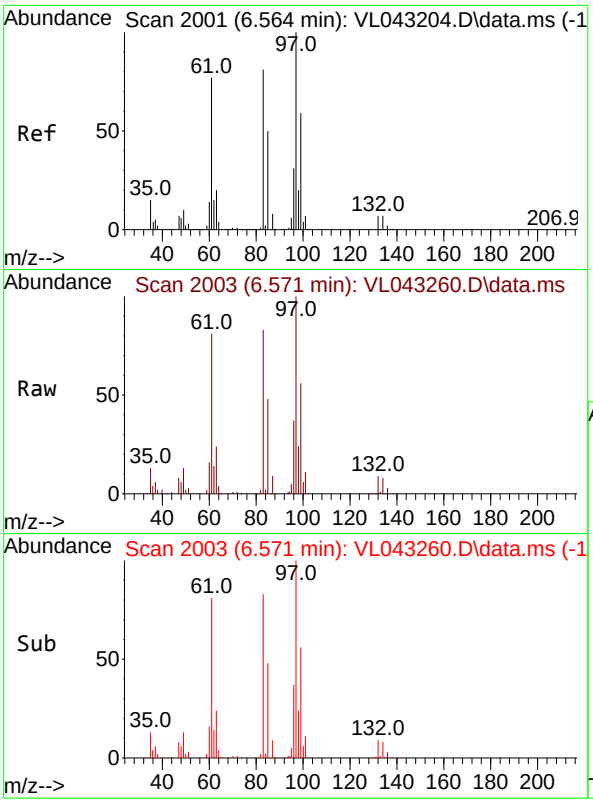


#46
cis-1,3-Dichloropropene
Concen: 7.810 ppbv
RT: 5.590 min Scan# 1700
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 75 Resp: 117380

Ion	Ratio	Lower	Upper
75	100		
39	72.3	59.1	88.7
77	30.8	24.2	36.2



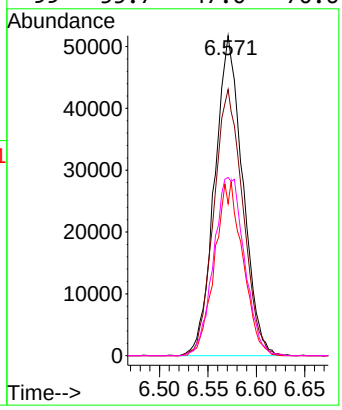


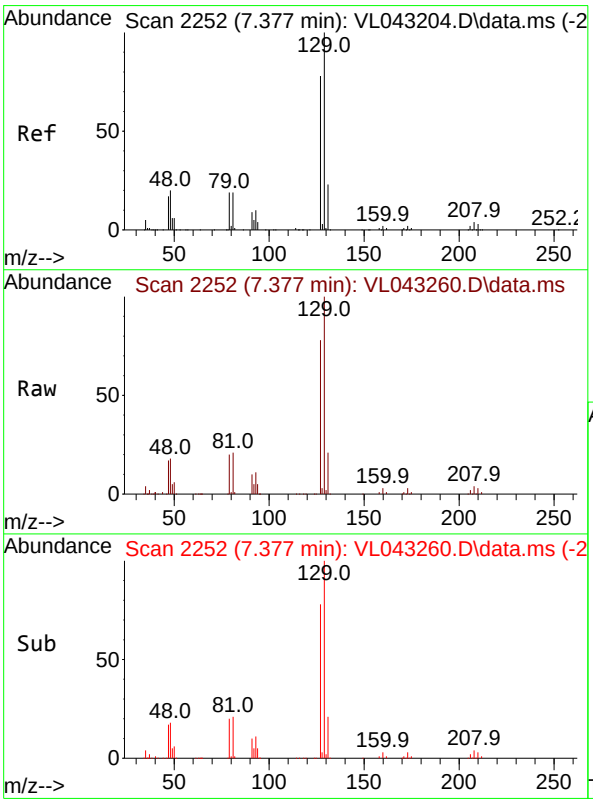
#47
1,1,2-Trichloroethane
Concen: 10.369 ppbv
RT: 6.571 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 97 Resp: 104185

Ion	Ratio	Lower	Upper
97	100		
83	83.2	64.6	97.0
85	47.5	39.4	59.2
99	55.7	47.0	70.6

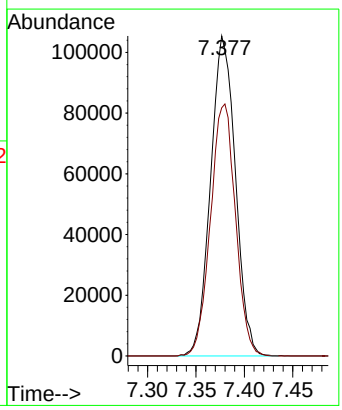


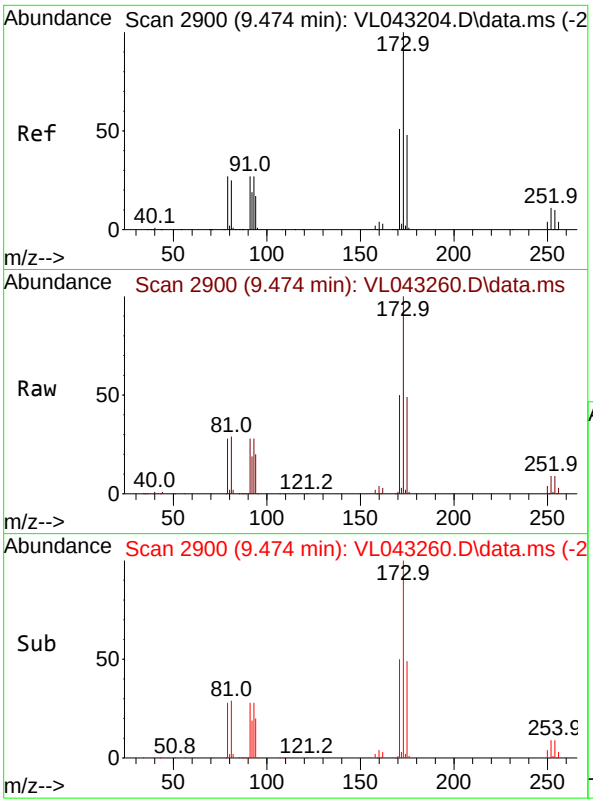


#48
Dibromochloromethane
Concen: 10.892 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:129 Resp: 188165

Ion	Ratio	Lower	Upper
129	100		
127	79.2	39.3	117.9



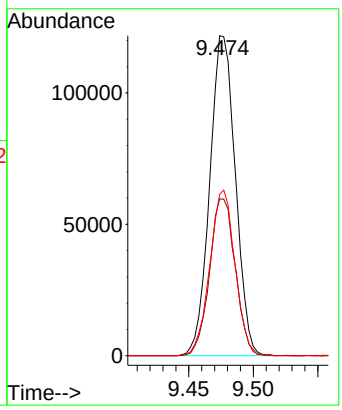


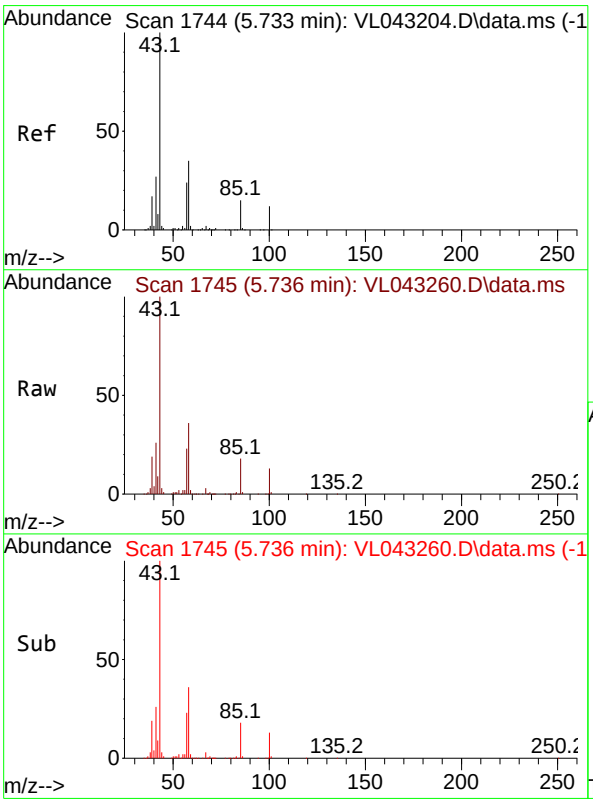
#49
Bromoform
Concen: 10.991 ppbv
RT: 9.474 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:173 Resp: 168175

Ion	Ratio	Lower	Upper
173	100		
175	49.1	38.6	58.0
171	50.7	40.6	61.0

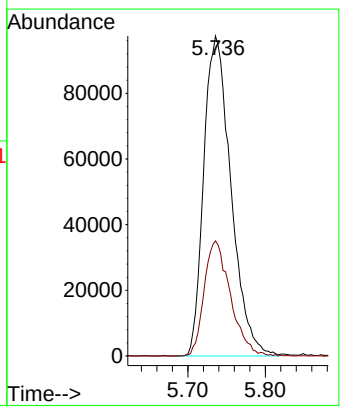


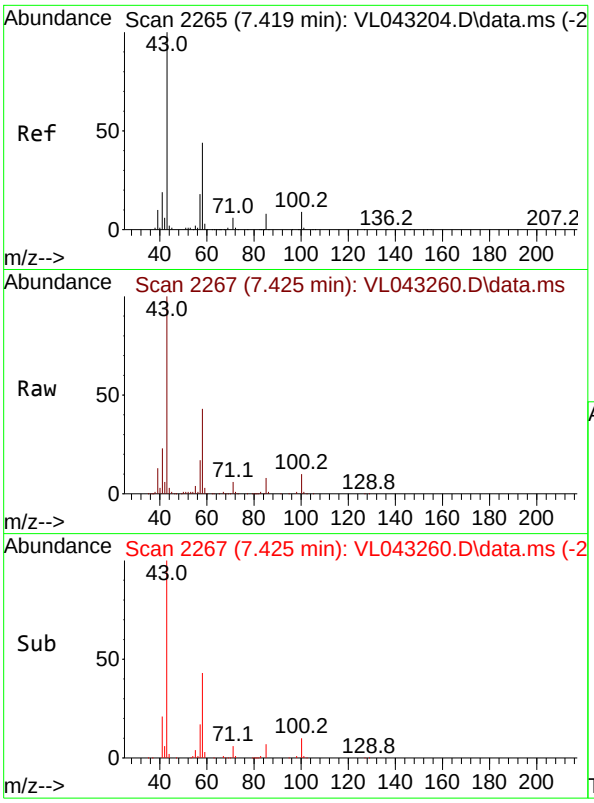


#50
4-Methyl-2-Pentanone
Concen: 8.859 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 43 Resp: 237956

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.4	42.6



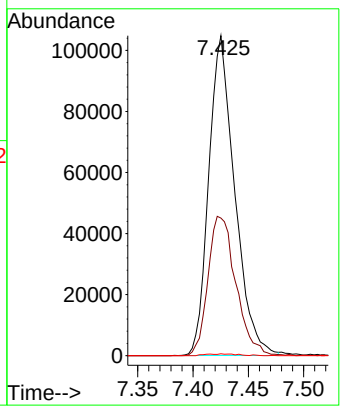


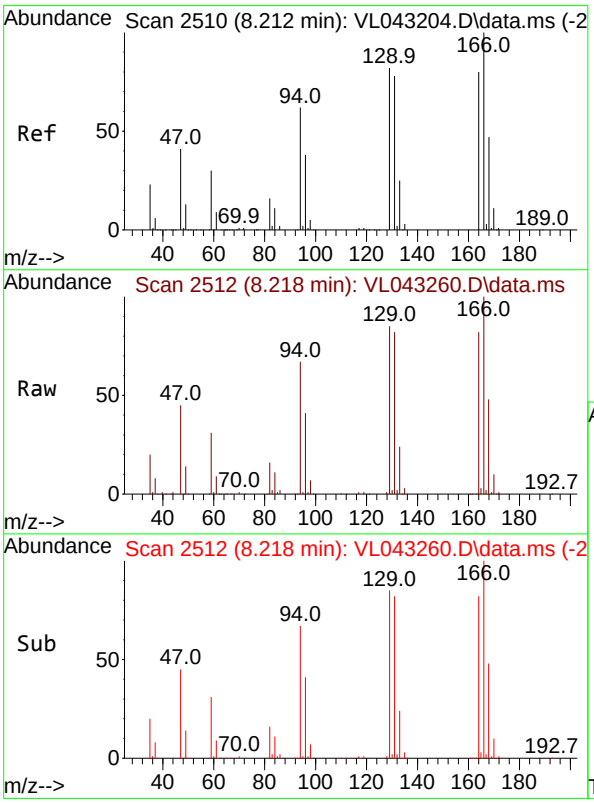
#51
2-Hexanone
Concen: 8.187 ppbv
RT: 7.425 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 43 Resp: 170769

Ion	Ratio	Lower	Upper
43	100		
58	47.0	38.4	57.6
98	0.7	0.0	0.0#

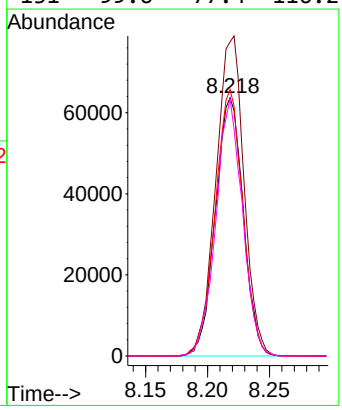


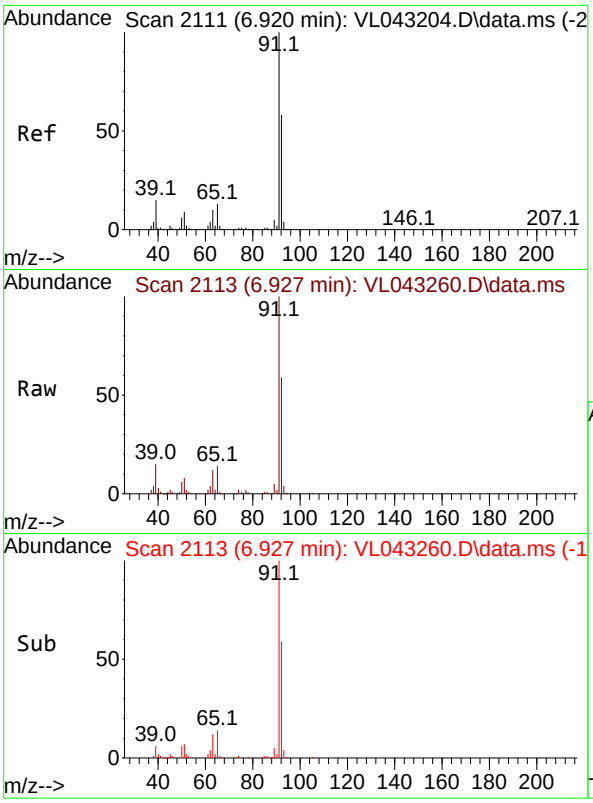


#52
Tetrachloroethene
Concen: 10.391 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:164 Resp: 99982

Ion	Ratio	Lower	Upper
164	100		
166	121.7	99.4	149.2
129	103.2	81.8	122.8
131	99.6	77.4	116.2



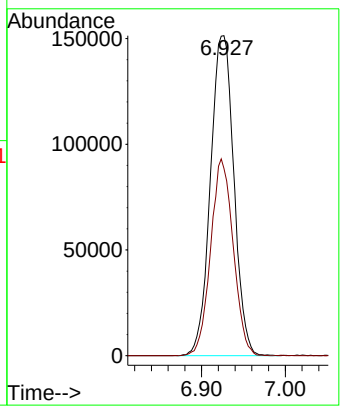


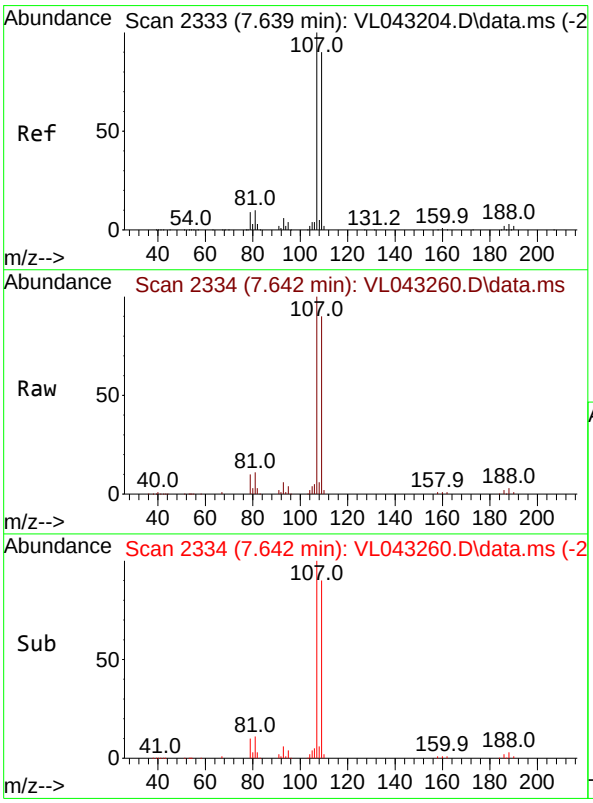
#53
Toluene
Concen: 9.614 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 91 Resp: 294482

Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.4	71.0

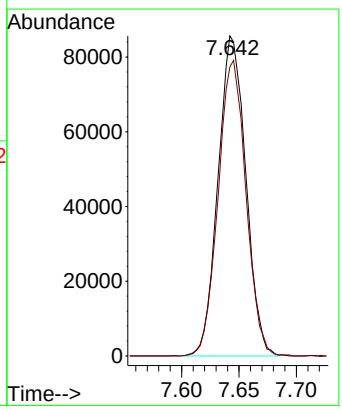


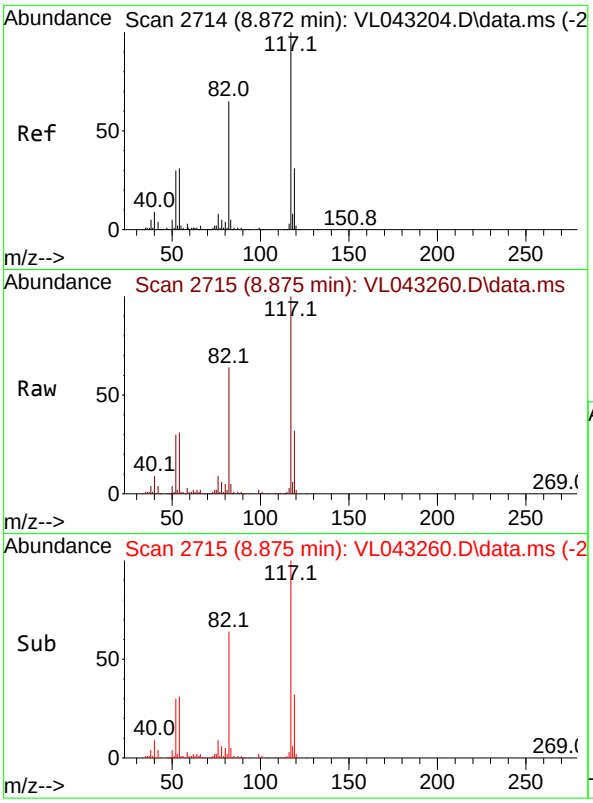


#54
1,2-Dibromoethane
Concen: 9.720 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:107 Resp: 143721

Ion	Ratio	Lower	Upper
107	100		
109	90.3	72.1	108.1



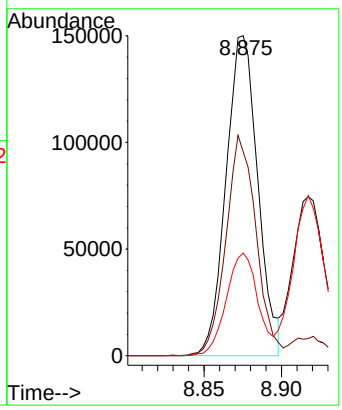


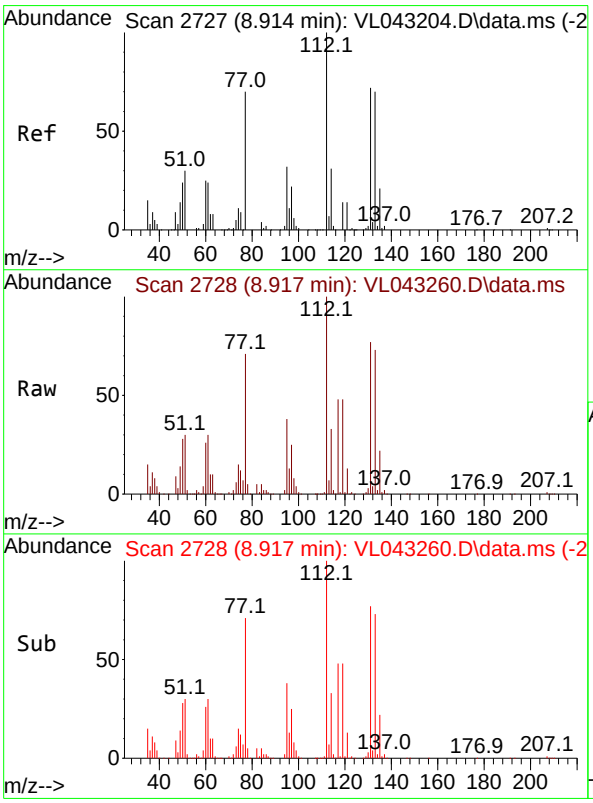
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:117 Resp: 214473

Ion	Ratio	Lower	Upper
117	100		
82	71.5	56.1	84.1
119	31.9	25.0	37.6

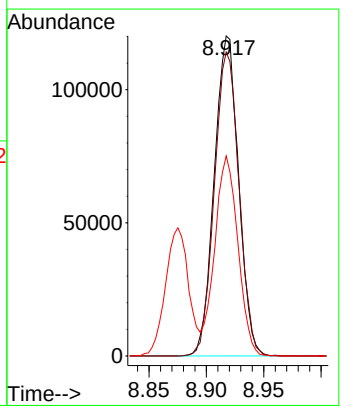


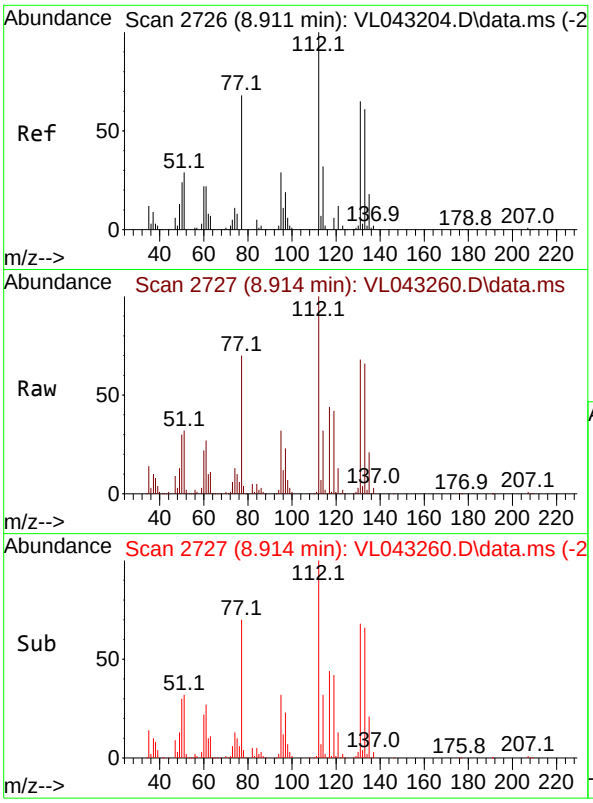


#56
1,1,1,2-Tetrachloroethane
Concen: 11.221 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:131 Resp: 176862

Ion	Ratio	Lower	Upper
131	100		
133	96.3	77.4	116.2
119	60.7	49.1	73.7



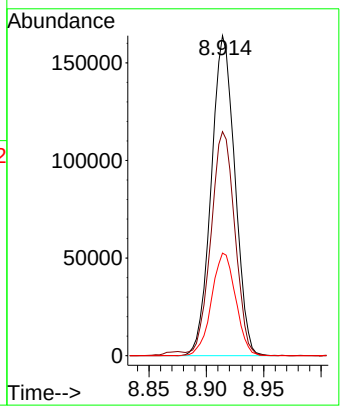


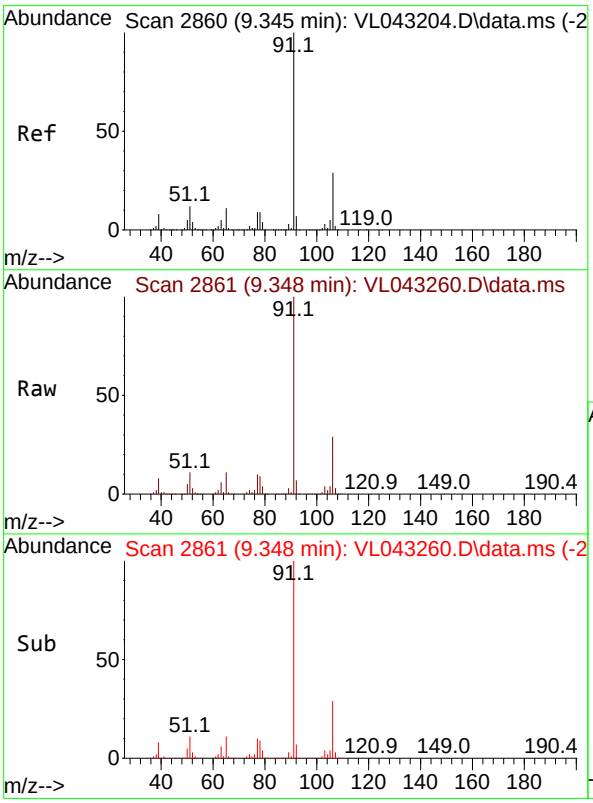
#57
Chlorobenzene
Concen: 10.664 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:112 Resp: 234816

Ion	Ratio	Lower	Upper
112	100		
77	70.0	55.5	83.3
114	32.1	29.1	35.5

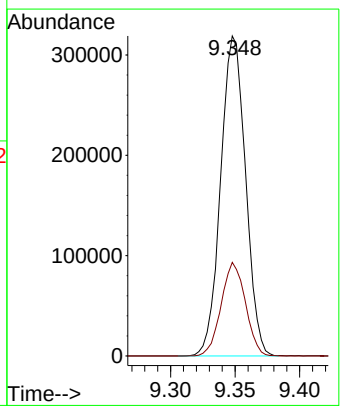


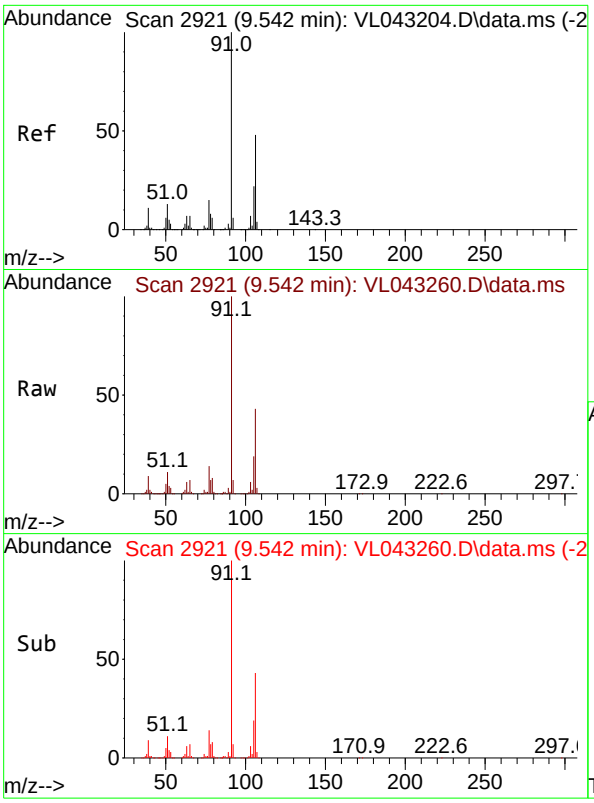


#58
Ethyl Benzene
Concen: 10.357 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 91 Resp: 427546

Ion	Ratio	Lower	Upper
91	100		
106	29.3	22.8	34.2



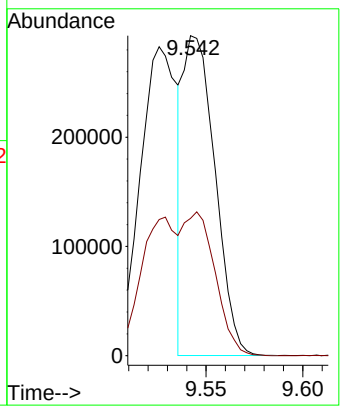


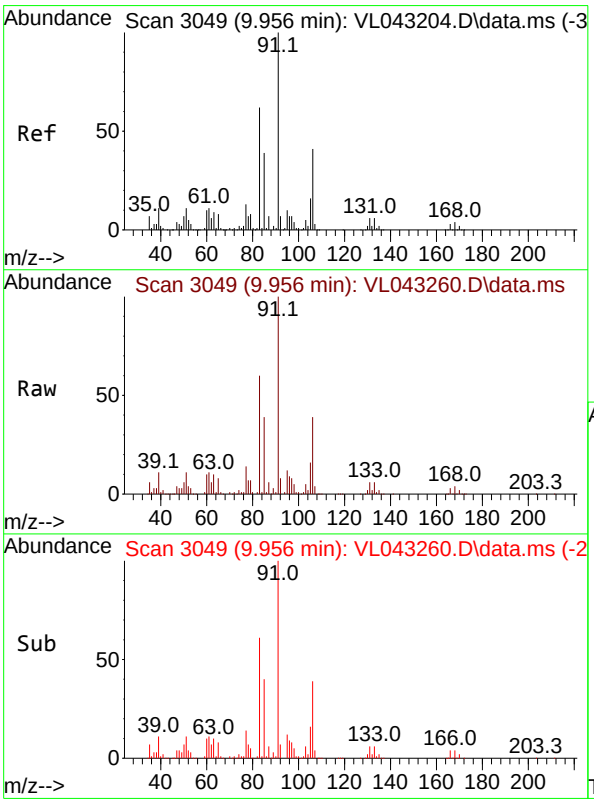
#59
m/p-Xylene
Concen: 10.089 ppbv
RT: 9.542 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 91 Resp: 333908

Ion	Ratio	Lower	Upper
91	100		
106	95.5	36.1	54.1#

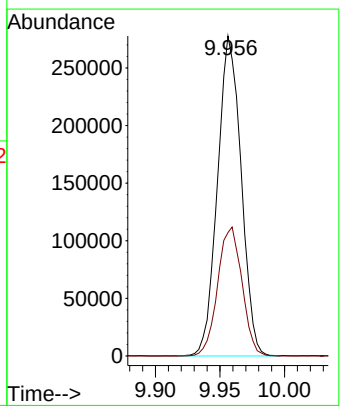


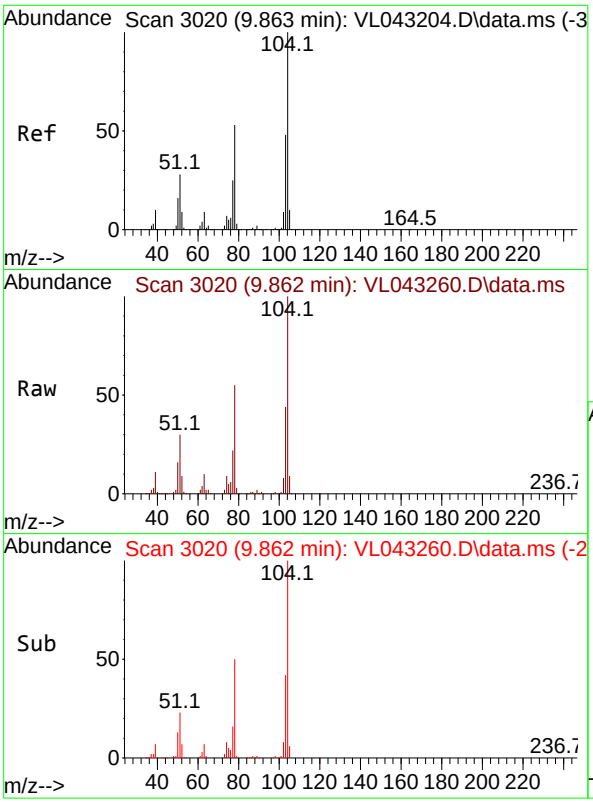


#60
o-Xylene
Concen: 10.695 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 91 Resp: 353595

Ion	Ratio	Lower	Upper
91	100		
106	41.3	20.9	62.8



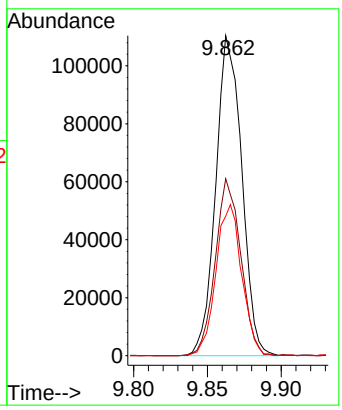


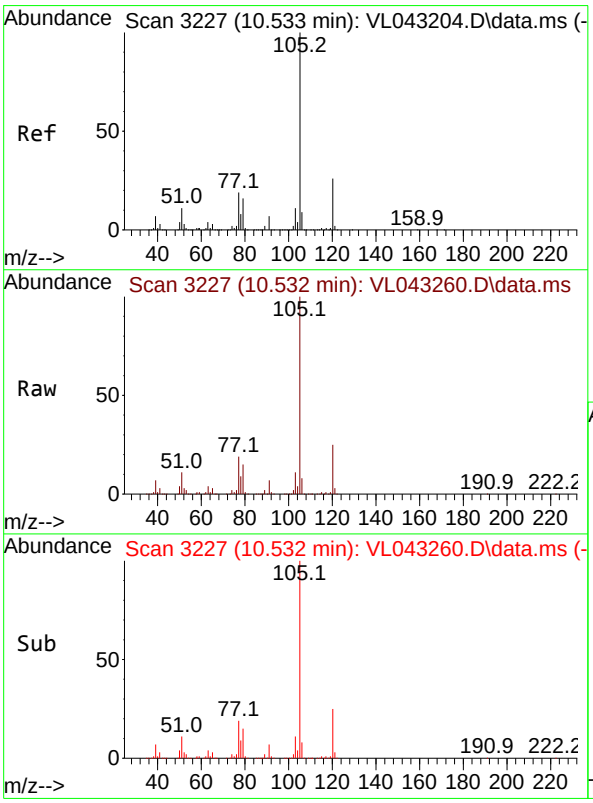
#61
Styrene
Concen: 9.363 ppbv
RT: 9.862 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:104 Resp: 135477

Ion	Ratio	Lower	Upper
104	100		
78	54.3	42.1	63.1
103	47.1	37.2	55.8

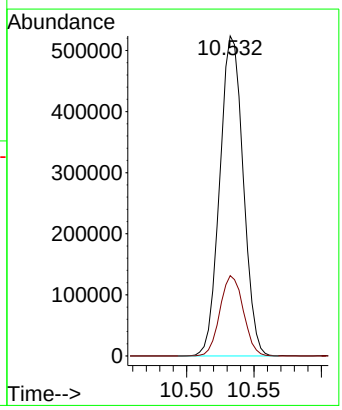


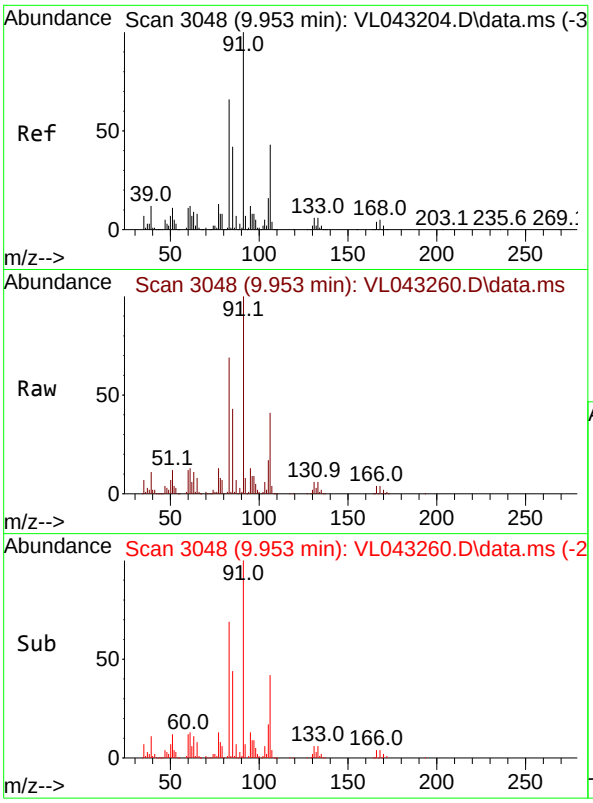


#62
Isopropylbenzene
Concen: 10.720 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:105 Resp: 634112

Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8



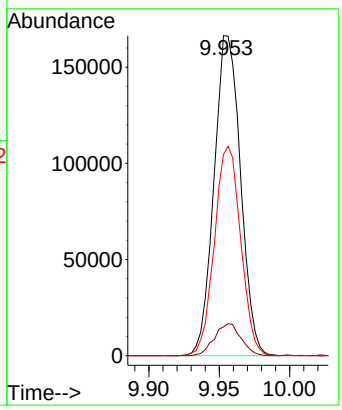


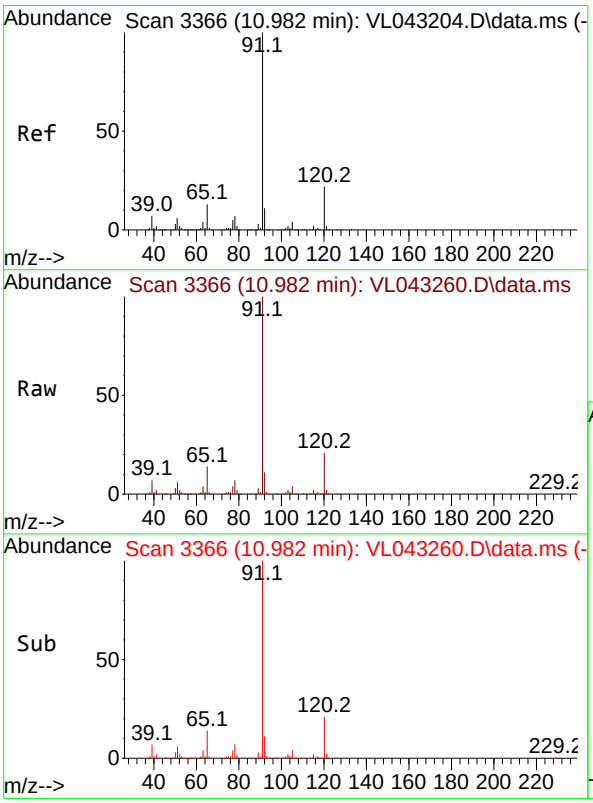
#63
1,1,2,2-Tetrachloroethane
Concen: 10.371 ppbv
RT: 9.953 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 83 Resp: 218173

Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.8	14.3
85	64.8	31.9	95.9

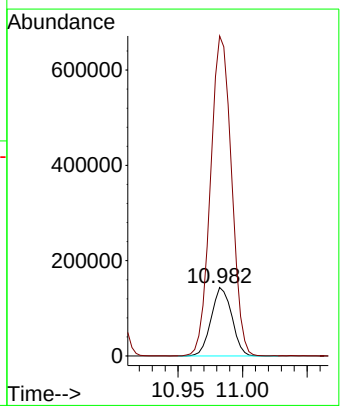


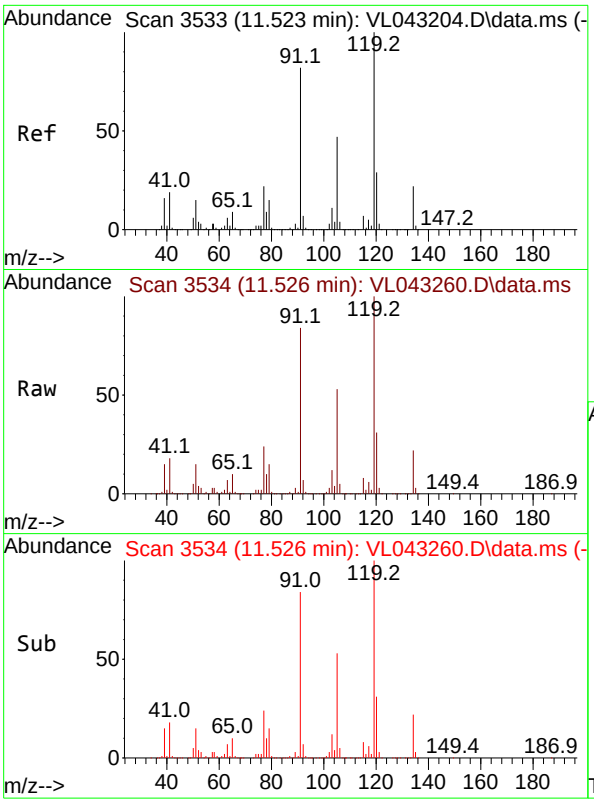


#64
n-propylbenzene
Concen: 10.480 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:120 Resp: 159286

Ion	Ratio	Lower	Upper
120	100		
91	478.3	377.1	565.7



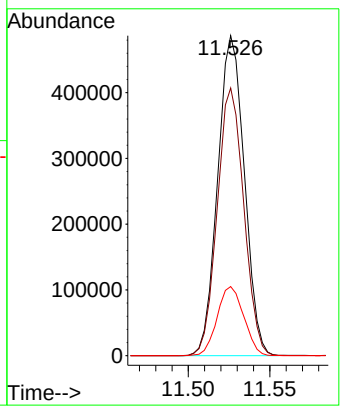


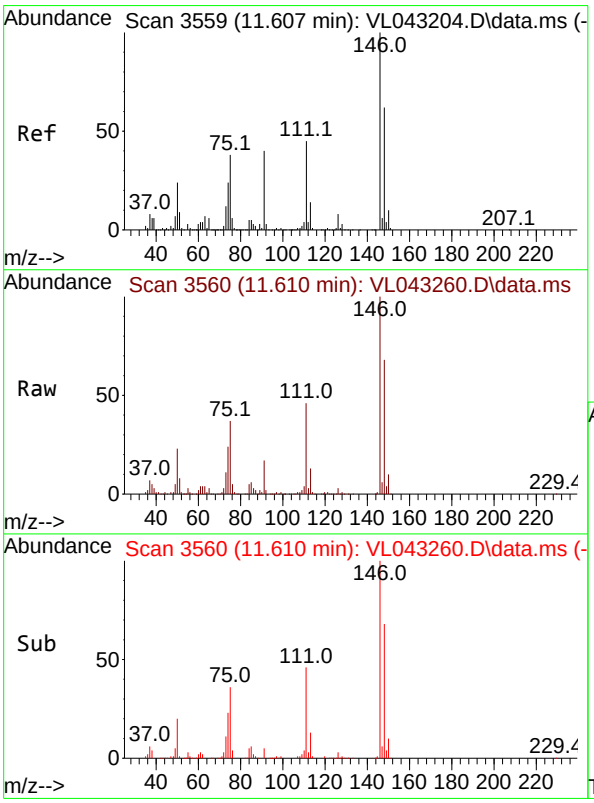
#65
tert-Butylbenzene
Concen: 10.467 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:119 Resp: 552915

Ion	Ratio	Lower	Upper
119	100		
91	83.3	65.3	97.9
134	21.5	17.0	25.4

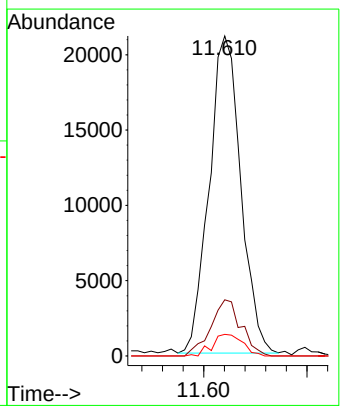


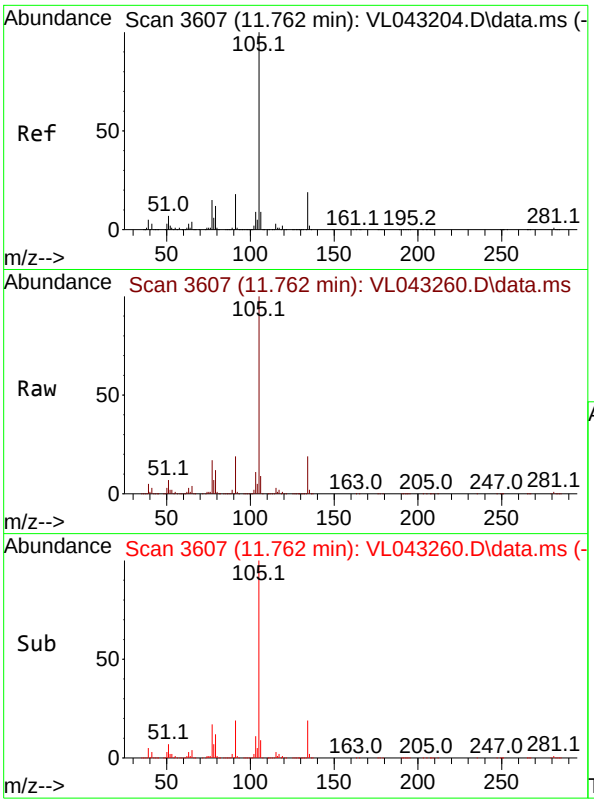


#66
Benzyl Chloride
Concen: 4.178 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 91 Resp: 22396

Ion	Ratio	Lower	Upper
91	100		
126	17.0	14.4	21.6
128	6.6	4.6	6.8



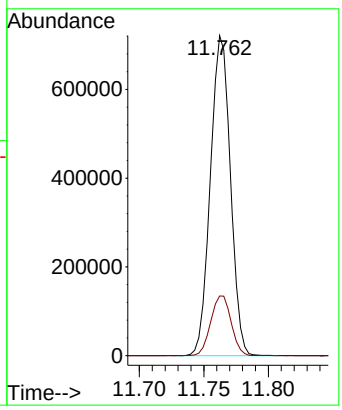


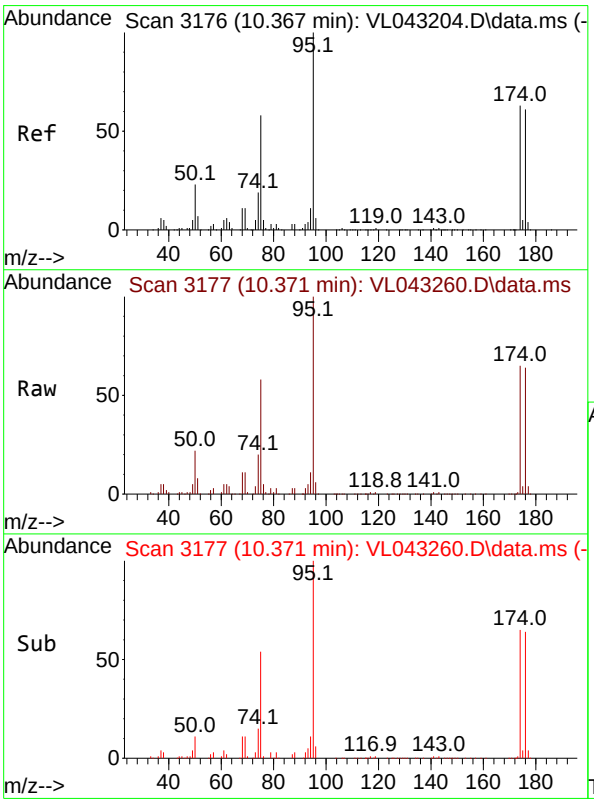
#67
sec-Butylbenzene
Concen: 10.570 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:105 Resp: 779369

Ion	Ratio	Lower	Upper
105	100		
134	19.1	15.0	22.6

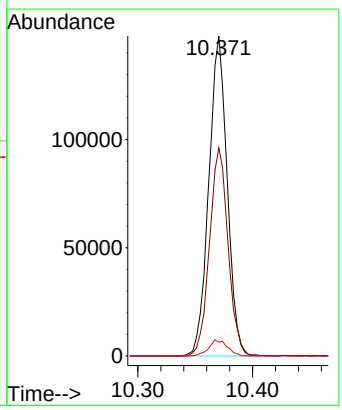


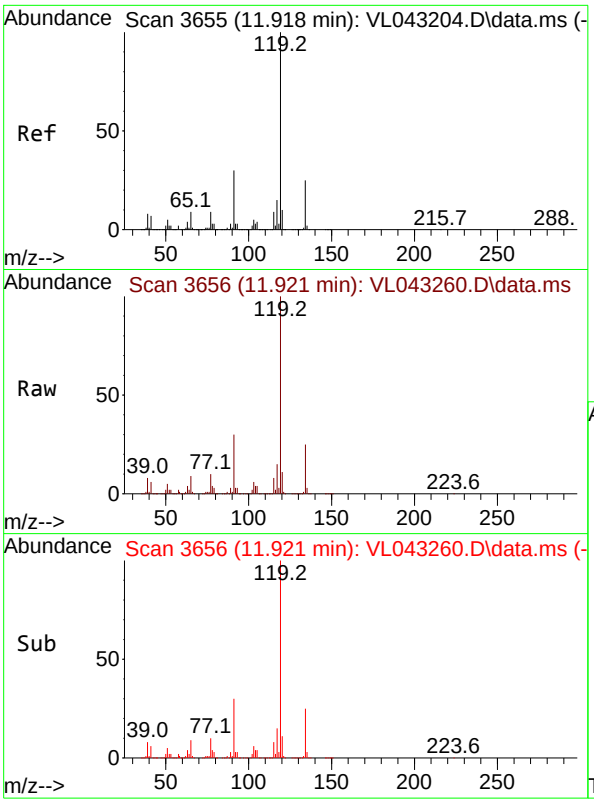


#68
1-Bromo-4-Fluorobenzene
Concen: 10.466 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 95 Resp: 164533

Ion	Ratio	Lower	Upper
95	100		
174	65.6	50.2	75.2
175	5.1	4.1	6.1



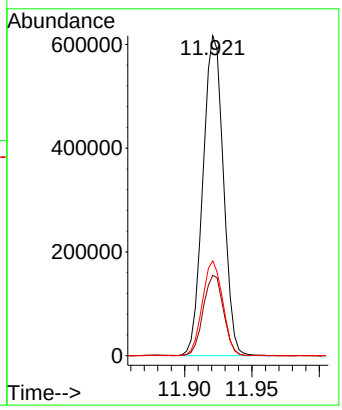


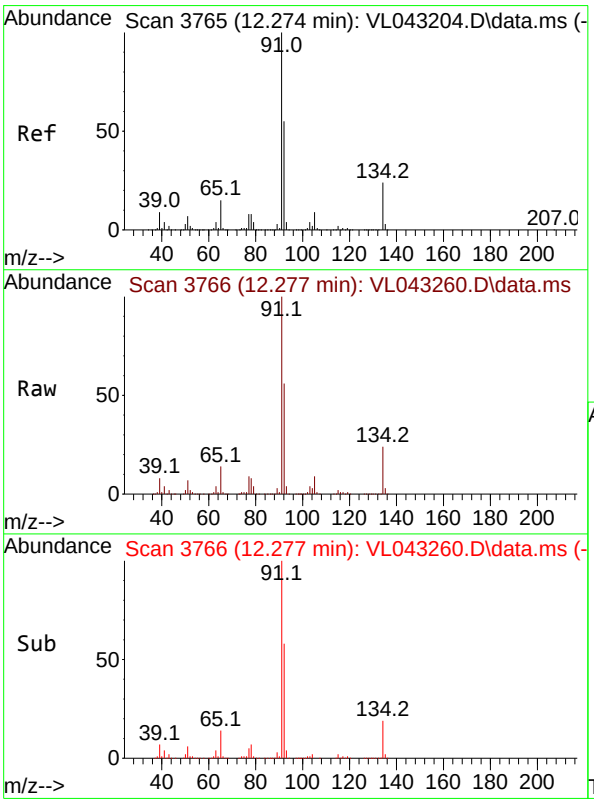
#69
p-Isopropyltoluene
Concen: 10.405 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:119 Resp: 649941

Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.2	30.2
91	29.7	23.8	35.8

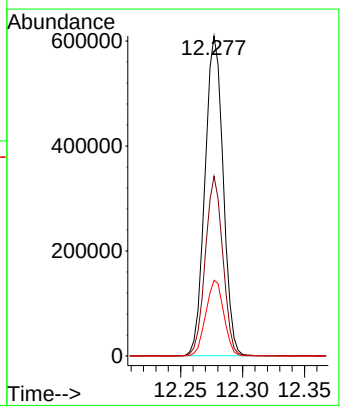


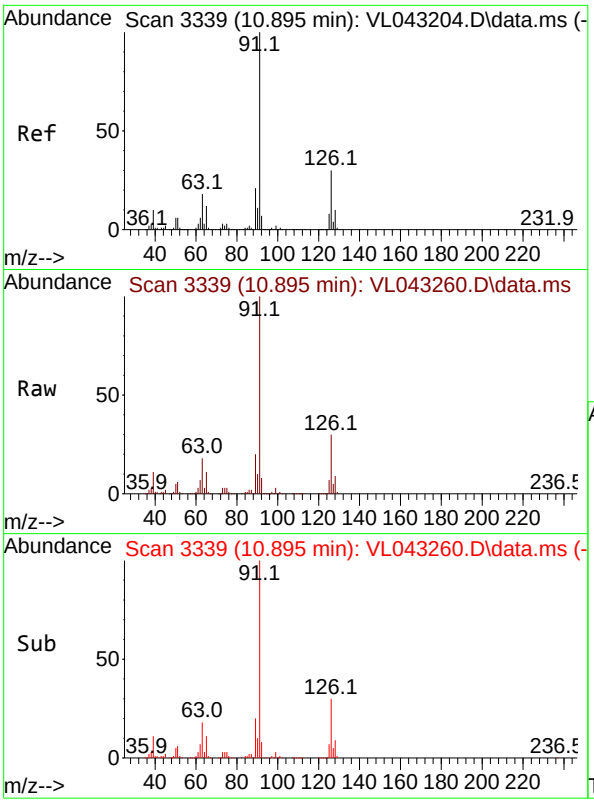


#70
n-Butylbenzene
Concen: 10.278 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion: 91 Resp: 622858

Ion	Ratio	Lower	Upper
91	100		
92	54.2	43.5	65.3
134	23.4	19.0	28.6



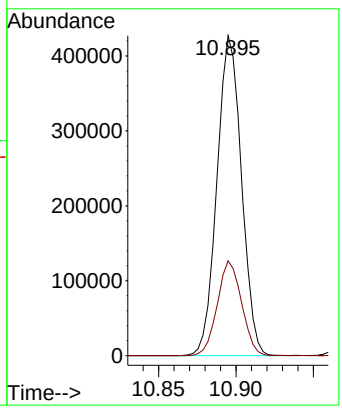


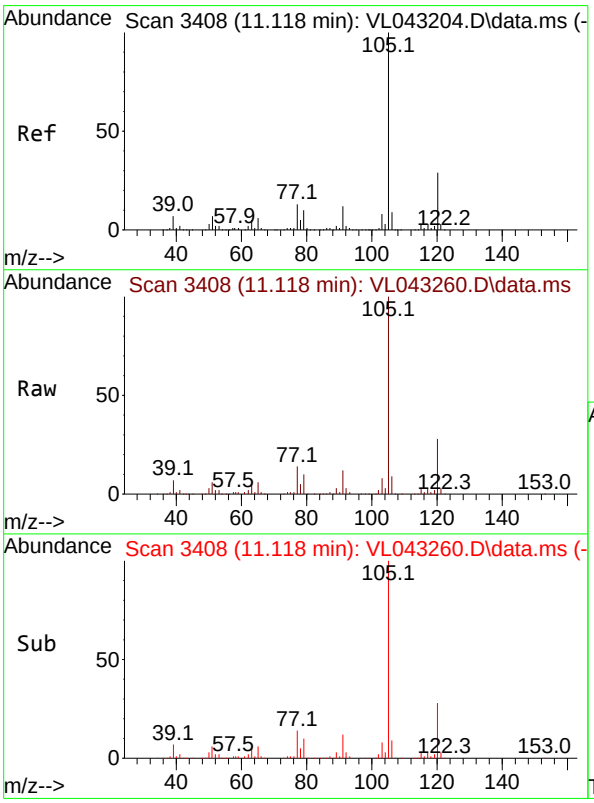
#71
2-Chlorotoluene
Concen: 10.337 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion: 91 Resp: 469961

Ion	Ratio	Lower	Upper
91	100		
126	29.3	11.7	46.7

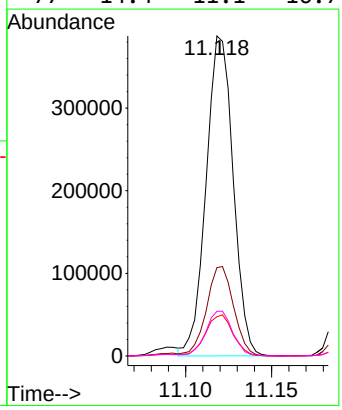


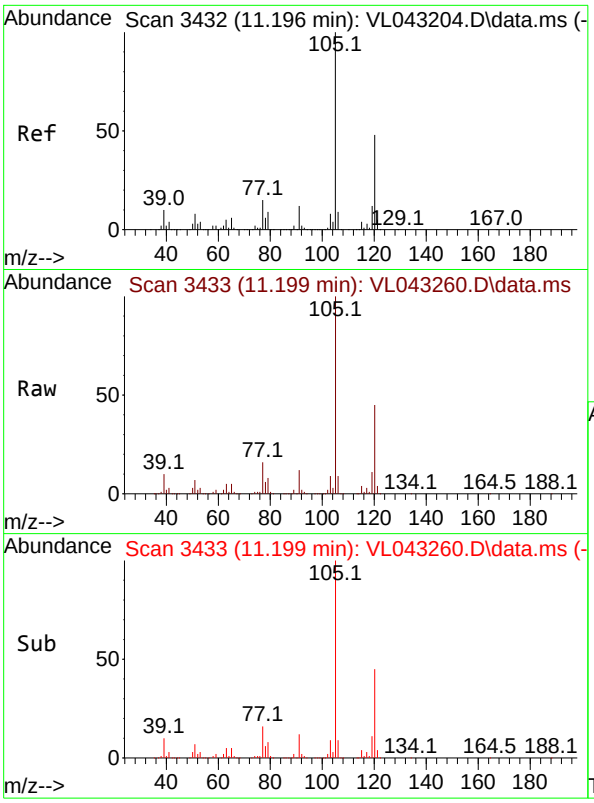


#72
4-Ethyltoluene
Concen: 10.529 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:105 Resp: 423927

Ion	Ratio	Lower	Upper
105	100		
120	28.8	23.8	35.8
91	13.6	10.3	15.5
77	14.4	11.1	16.7



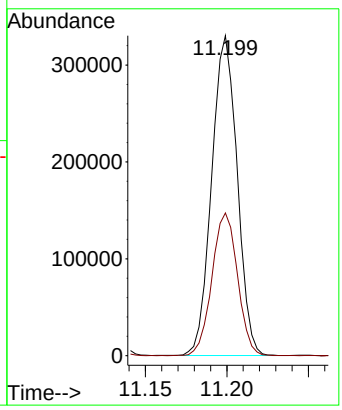


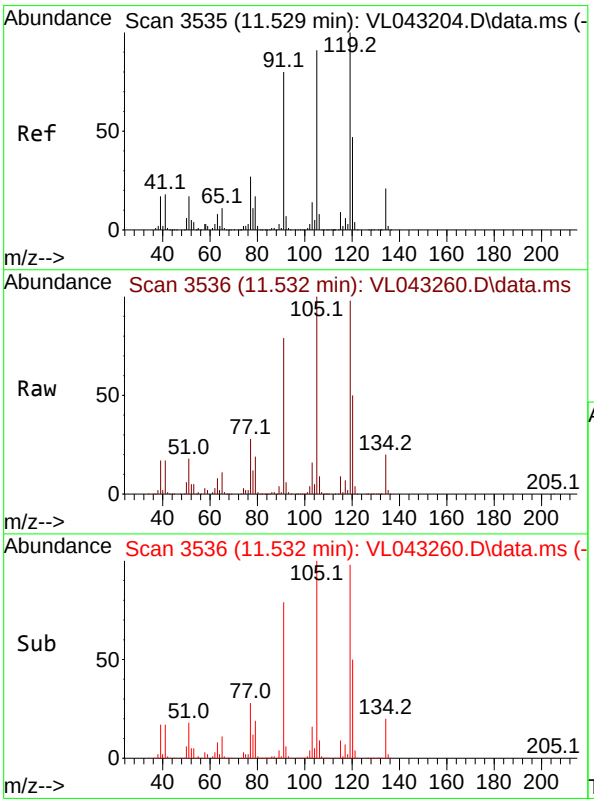
#73
1,3,5-Trimethylbenzene
Concen: 10.613 ppbv
RT: 11.199 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:105 Resp: 358599

Ion	Ratio	Lower	Upper
105	100		
120	44.6	38.6	57.8

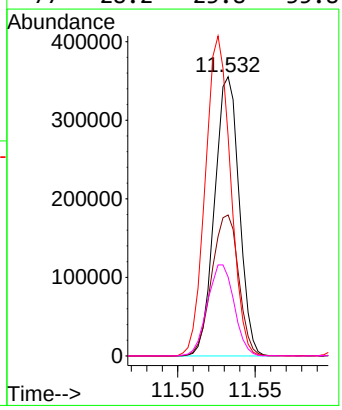


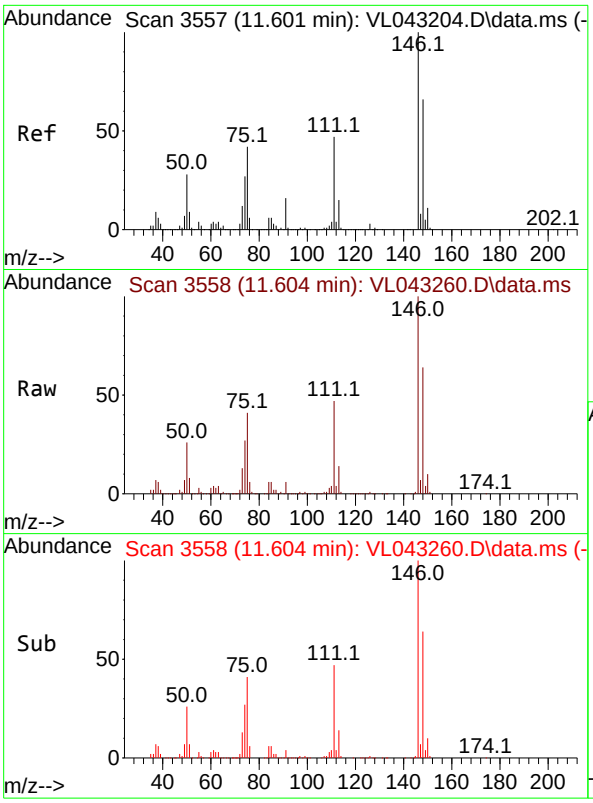


#74
1,2,4-Trimethylbenzene
Concen: 10.645 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:105 Resp: 392516

Ion	Ratio	Lower	Upper
105	100		
120	50.4	41.7	62.5
91	78.6	70.0	105.0
77	28.2	23.8	35.8



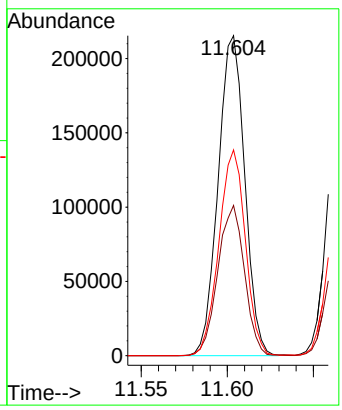


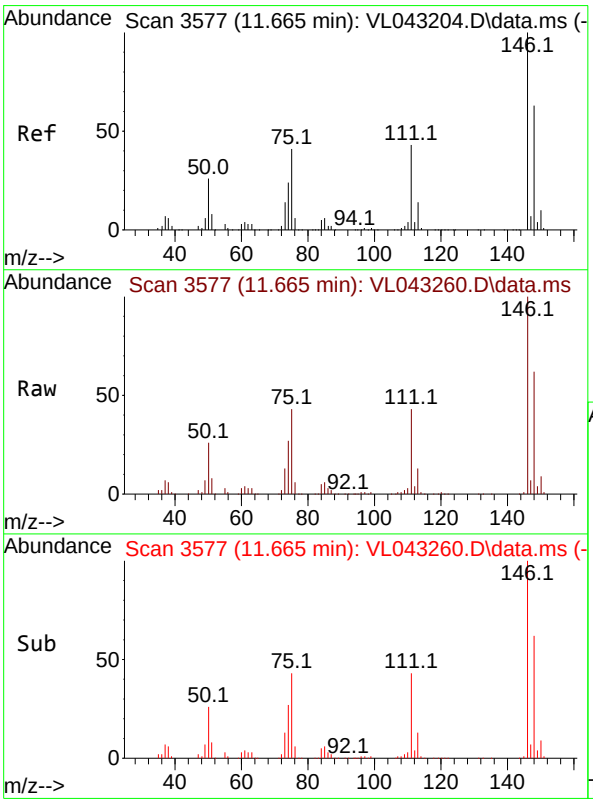
#75
1,3-Dichlorobenzene
Concen: 10.765 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:146 Resp: 231654

Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.4	70.3
148	64.1	31.6	95.0

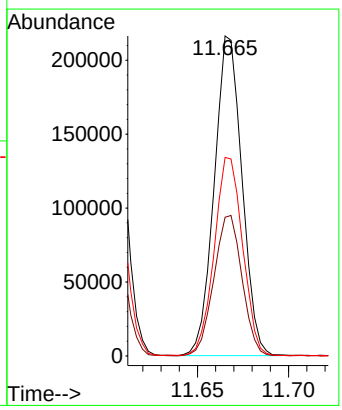


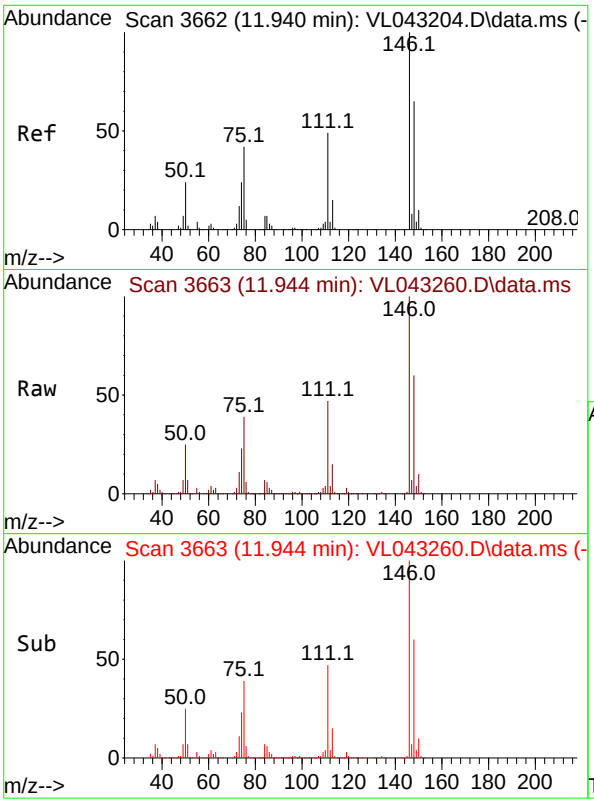


#76
1,4-Dichlorobenzene
Concen: 10.642 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:146 Resp: 229039

Ion	Ratio	Lower	Upper
146	100		
111	45.0	22.8	68.3
148	63.8	31.8	95.4



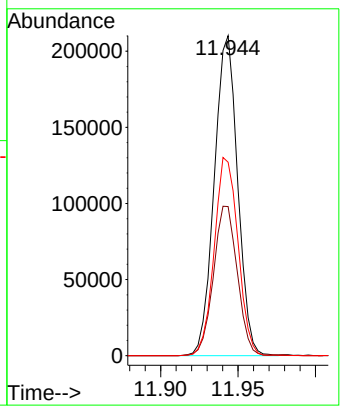


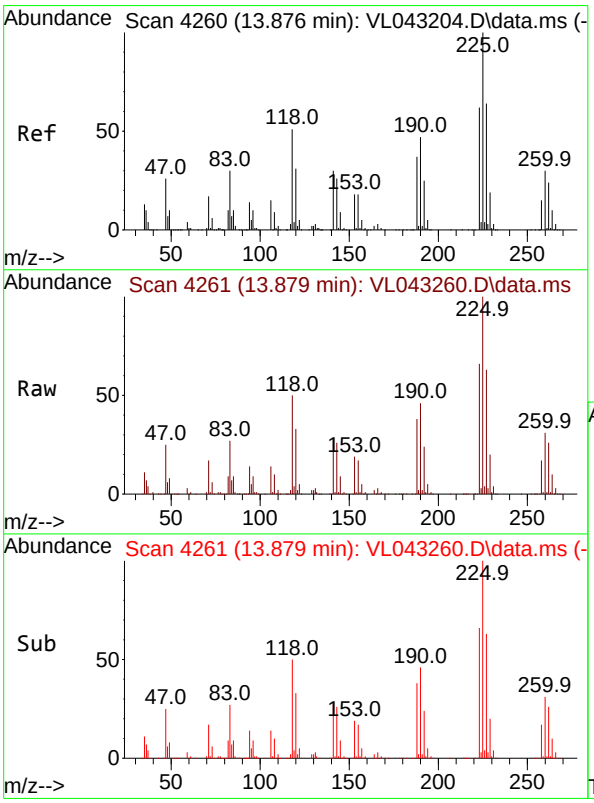
#77
1,2-Dichlorobenzene
Concen: 10.642 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:146 Resp: 220159

Ion	Ratio	Lower	Upper
146	100		
111	47.8	24.3	73.0
148	63.2	31.6	94.7

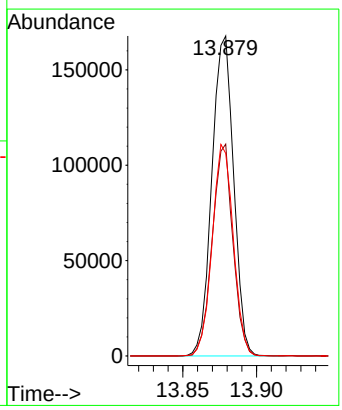


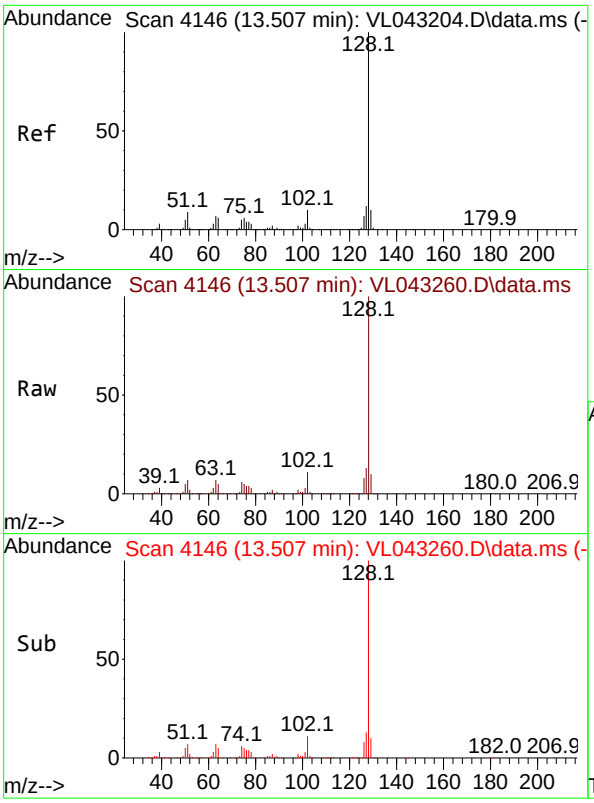


#78
Hexachloro-1,3-Butadiene
Concen: 9.961 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:225 Resp: 171979

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.4
227	64.2	51.1	76.7



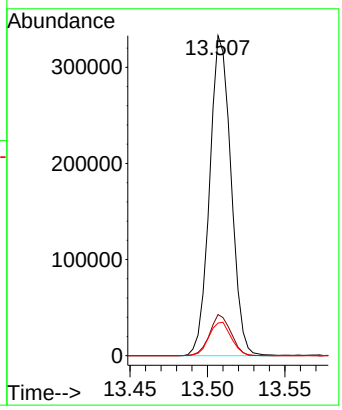


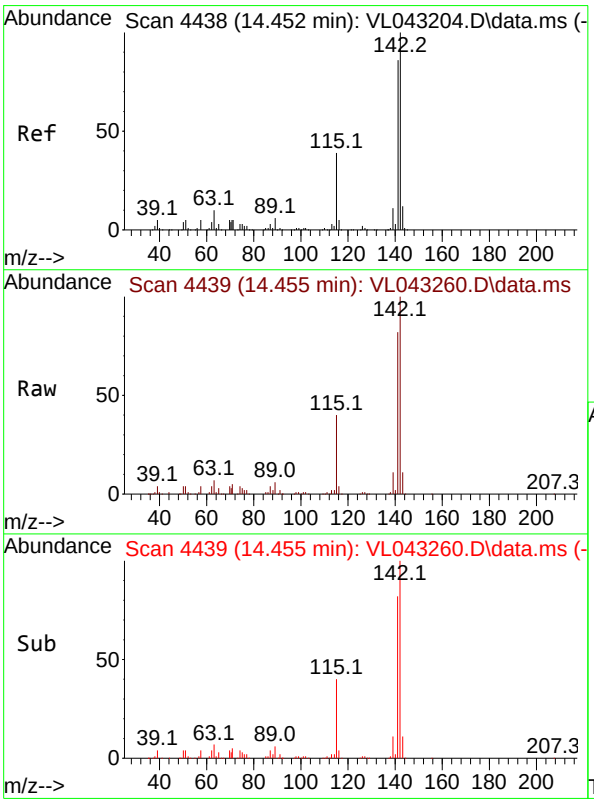
#79
Naphthalene
Concen: 9.764 ppbv
RT: 13.507 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:128 Resp: 319763

Ion	Ratio	Lower	Upper
128	100		
127	12.9	9.9	14.9
129	10.2	8.4	12.6

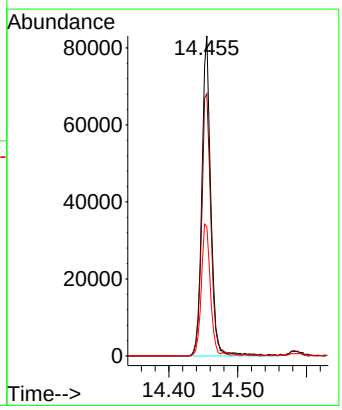


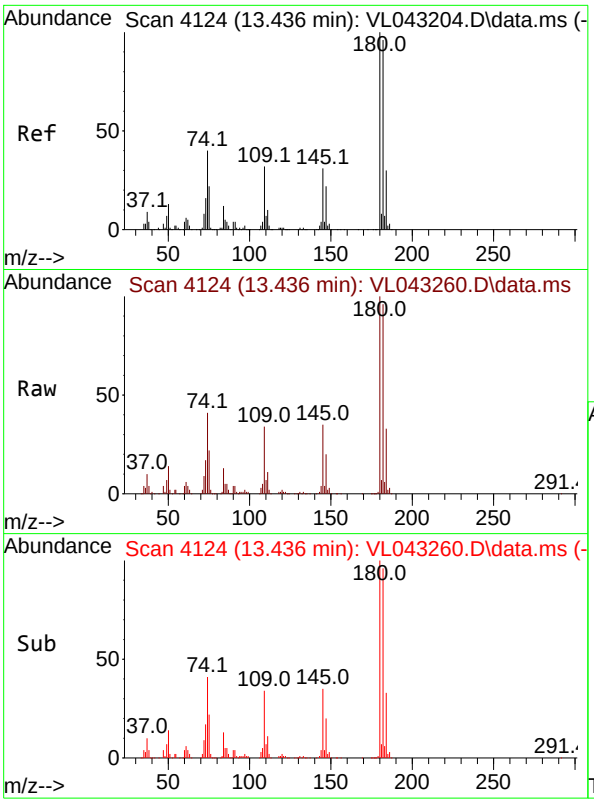


#80
Naphthalene,2-methyl-
Concen: 8.734 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Tgt Ion:142 Resp: 75079

Ion	Ratio	Lower	Upper
142	100		
141	85.5	67.1	100.7
115	42.6	31.9	47.9



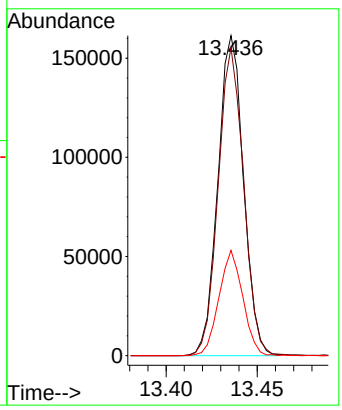


#81
1,2,4-Trichlorobenzene
Concen: 10.761 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043260.D
Acq: 20 Nov 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Tgt Ion:180 Resp: 157618

Ion	Ratio	Lower	Upper
180	100		
182	95.6	77.4	116.2
184	30.7	24.2	36.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043275.D
Acq On : 21 Nov 2025 07:53
Operator : SY/MD
Sample : Q3626-09DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Quant Time: Nov 25 08:40:28 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	2.787	49	99850	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	261008	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	202177	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	140998	9.514	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	771	0.055	ppbv #	81
3) Chlorodifluoromethane	1.476	51	851	0.061	ppbv	100
4) Chloromethane	1.531	50	238	0.045	ppbv #	83
5) Vinyl Chloride	1.602	62	23	0.004	ppbv #	41
6) Bromomethane	1.674	94	26	0.009	ppbv #	77
7) Chloroethane	1.463	64	20	0.009	ppbv #	41
8) Dichlorotetrafluoroethane	1.499	85	771	0.066	ppbv #	17
9) Propene	1.483	41	466	0.079	ppbv #	86
10) Heptane	4.972	43	129	0.007	ppbv #	28
11) Trichlorofluoromethane	1.877	101	460	0.034	ppbv #	81
12) 1,1,2-Trichlorotrifluo...	2.140	101	103	0.010	ppbv #	12
13) Ethanol	1.722	45	3624	1.752	ppbv #	38
14) Bromoethene	2.253	108	31	0.008	ppbv #	1
15) Acetone	1.835	43	104948	7.565	ppbv	100
16) 1,3-Butadiene	1.606	39	371	0.060	ppbv #	12
17) tert-Butyl alcohol	2.043	59	5189	0.285	ppbv #	88
18) 1,1-Dichloroethene	1.939	96	29	0.006	ppbv #	1
19) Isopropyl Alcohol	1.887	45	8343	1.064	ppbv #	1
20) Methylene Chloride	2.062	84	4686	0.392	ppbv #	93
21) Allyl Chloride	2.098	41	53	0.006	ppbv #	21
22) trans-1,2-Dichloroethene	2.337	96	27	0.005	ppbv #	1
23) Vinyl Acetate	2.454	43	235	0.014	ppbv #	40
24) 1,1-Dichloroethane	2.340	63	34	0.003	ppbv #	86
25) Ethyl Acetate	2.829	43	2661	0.089	ppbv #	78
26) Hexane	2.826	57	3223	0.246	ppbv #	41
27) Carbon Disulfide	2.149	76	1390	0.104	ppbv #	1
28) Methyl tert-Butyl Ether	2.415	73	59	0.009	ppbv #	50
29) Chloroform	2.849	83	177	0.009	ppbv #	3
30) Cyclohexane	3.845	84	64	0.006	ppbv #	1
31) cis-1,2-Dichloroethene	2.829	61	24	0.002	ppbv #	26
32) 1,1,1-Trichloroethane	3.353	97	24	0.001	ppbv #	19
34) 2-Butanone	2.557	43	4874	0.265	ppbv	99
35) Carbon Tetrachloride	3.764	117	53	0.003	ppbv #	53
36) Benzene	3.658	78	3988	0.160	ppbv #	89
37) 1,2-Dichloroethane	3.221	62	53	0.004	ppbv #	80
38) Trichloroethene	4.545	130	83	0.008	ppbv #	55
39) 1,2-Dichloropropane	3.955	63	66687	7.289	ppbv #	24
40) 1,4-Dioxane	4.609	88	43	0.010	ppbv #	1
41) Tetrahydrofuran	3.039	42	71	0.007	ppbv #	37
42) Bromodichloromethane	4.629	83	33	0.002	ppbv #	24
43) Methyl Methacrylate	5.101	69	39	0.003	ppbv #	52
44) 2,2,4-Trimethylpentane	4.632	57	78	0.002	ppbv #	41
45) t-1,3-Dichloropropene	6.046	75	38	0.003	ppbv #	44

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043275.D
Acq On : 21 Nov 2025 07:53
Operator : SY/MD
Sample : Q3626-09DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Quant Time: Nov 25 08:40:28 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)
46) cis-1,3-Dichloropropene	6.046	75	38	0.003	ppbv	#	22
48) Dibromochloromethane	6.933	129	23	0.001	ppbv	#	10
49) Bromoform	9.131	173	33	0.002	ppbv	#	64
50) 4-Methyl-2-Pentanone	5.739	43	45	0.002	ppbv	#	39
51) 2-Hexanone	7.720	43	26794	1.329	ppbv	#	29
52) Tetrachloroethene	8.225	164	3788	0.407	ppbv		91
53) Toluene	6.933	91	473	0.016	ppbv	#	21
56) 1,1,1,2-Tetrachloroethane	8.927	131	47	0.003	ppbv	#	1
57) Chlorobenzene	8.907	112	52	0.003	ppbv	#	74
58) Ethyl Benzene	9.348	91	322	0.008	ppbv		92
59) m/p-Xylene	9.542	91	241	0.008	ppbv	#	31
60) o-Xylene	9.963	91	169	0.005	ppbv	#	34
61) Styrene	9.862	104	125	0.009	ppbv	#	65
62) Isopropylbenzene	10.539	105	4130	0.074	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.752	83	31	0.002	ppbv	#	25
64) n-propylbenzene	10.985	120	33	0.002	ppbv	#	1
65) tert-Butylbenzene	11.526	119	171	0.003	ppbv	#	46
66) Benzyl Chloride	11.600	91	49	0.010	ppbv	#	65
67) sec-Butylbenzene	11.765	105	221	0.003	ppbv	#	1
69) p-Isopropyltoluene	11.921	119	471	0.008	ppbv	#	53
70) n-Butylbenzene	12.280	91	279	0.005	ppbv	#	74
71) 2-Chlorotoluene	10.895	91	133	0.003	ppbv	#	45
72) 4-Ethyltoluene	11.125	105	156	0.004	ppbv	#	32
73) 1,3,5-Trimethylbenzene	11.202	105	67	0.002	ppbv	#	29
74) 1,2,4-Trimethylbenzene	11.536	105	399	0.011	ppbv	#	44
75) 1,3-Dichlorobenzene	11.607	146	33	0.002	ppbv	#	1
76) 1,4-Dichlorobenzene	11.672	146	219	0.011	ppbv	#	54
77) 1,2-Dichlorobenzene	11.947	146	17	0.001	ppbv	#	1
78) Hexachloro-1,3-Butadiene	13.872	225	66	0.004	ppbv	#	1
79) Naphthalene	13.510	128	118	0.004	ppbv	#	72
80) Naphthalene,2-methyl-	14.462	142	63	0.008	ppbv	#	33

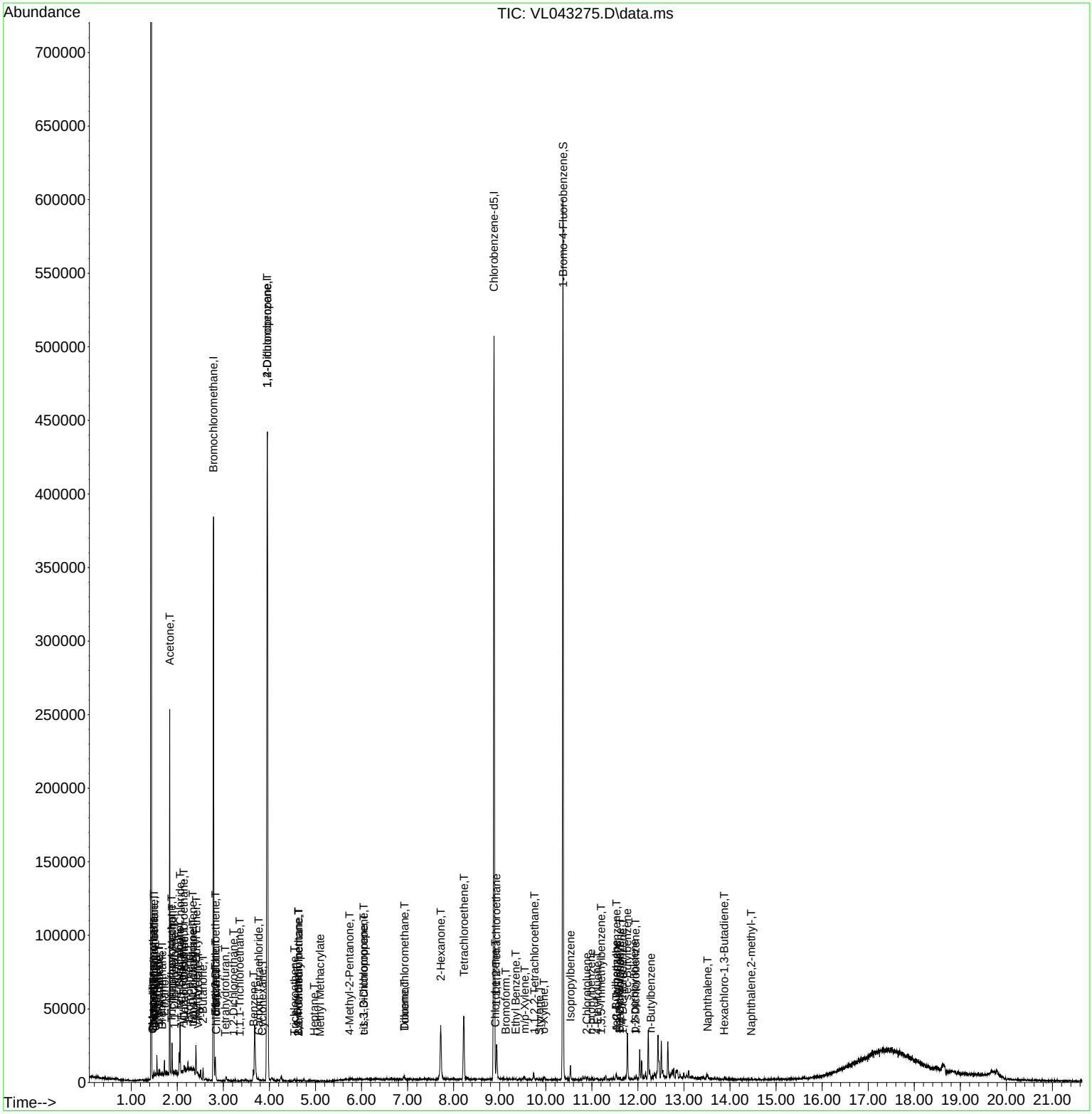
(#) = qualifier out of range (m) = manual integration (+) = signals summed

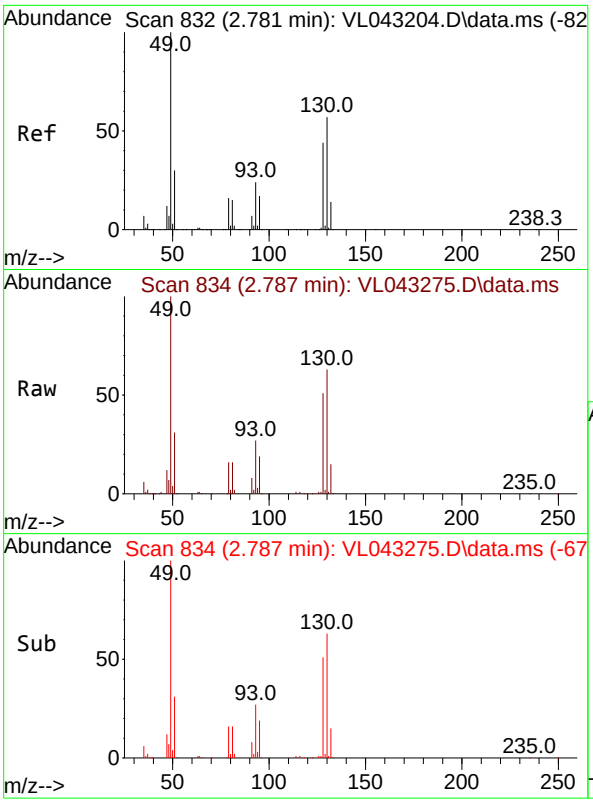
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043275.D
Acq On : 21 Nov 2025 07:53
Operator : SY/MD
Sample : Q3626-09DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Quant Time: Nov 25 08:40:28 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



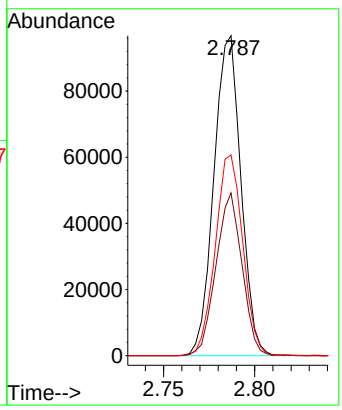


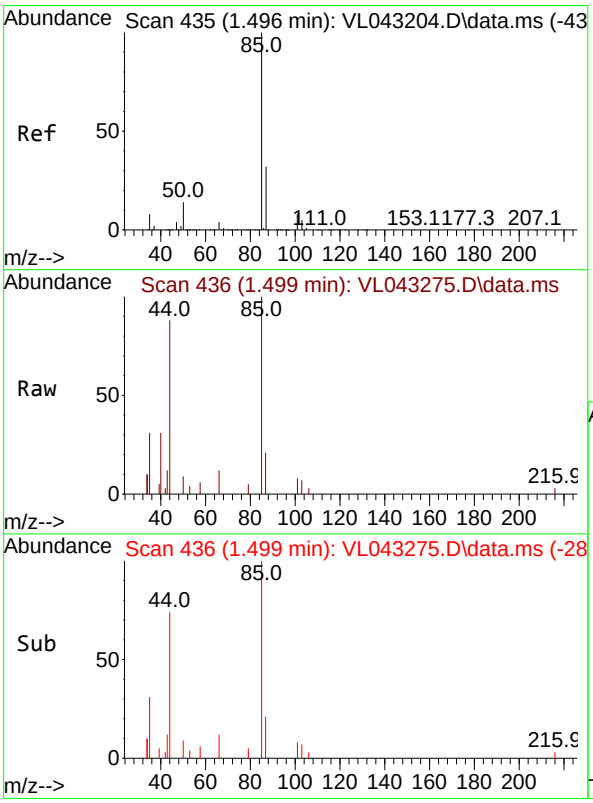
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 49 Resp: 99850

Ion	Ratio	Lower	Upper
49	100		
128	49.0	23.0	69.0
130	63.7	29.9	89.7

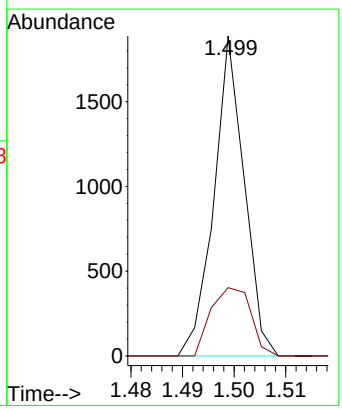


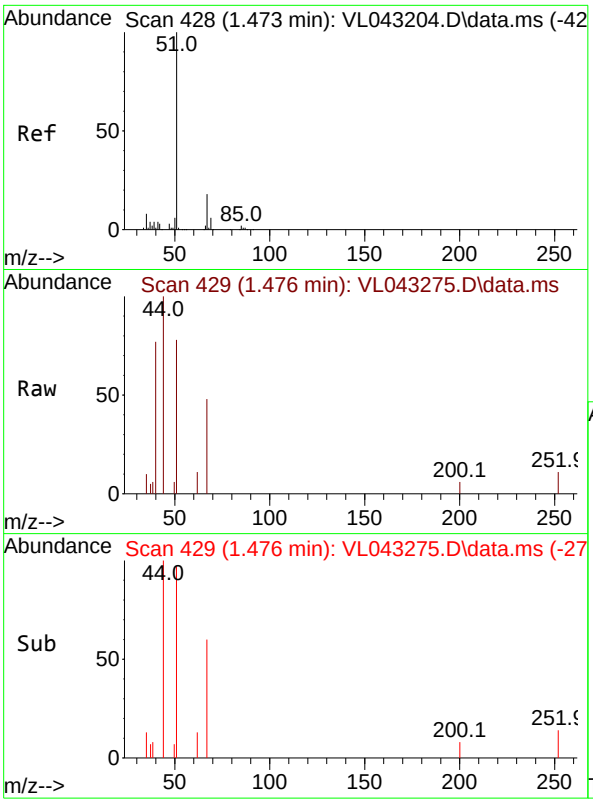


#2
Dichlorodifluoromethane
Concen: 0.055 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 85 Resp: 771

Ion	Ratio	Lower	Upper
85	100		
87	21.3	25.4	38.2#



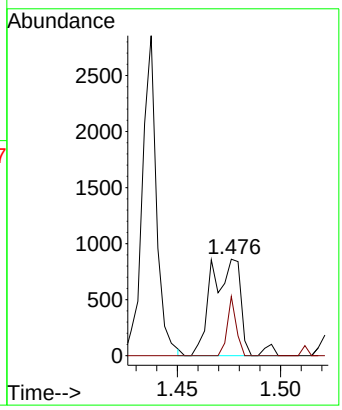


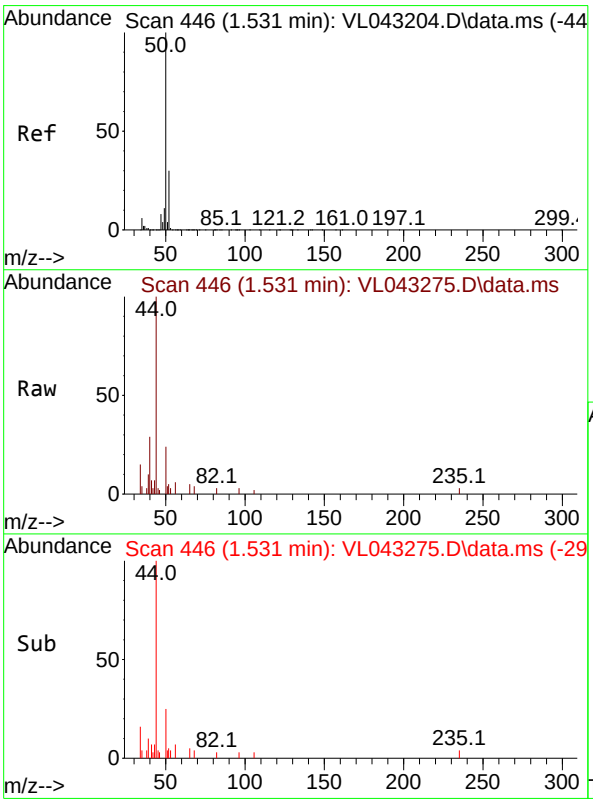
#3
Chlorodifluoromethane
Concen: 0.061 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 51 Resp: 851

Ion	Ratio	Lower	Upper
51	100		
67	18.7	14.9	22.3

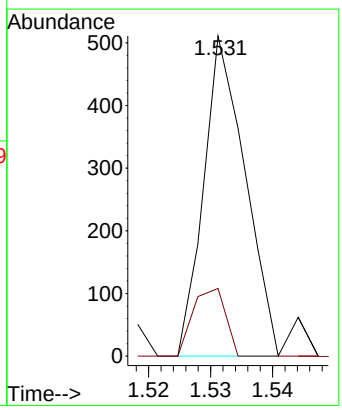


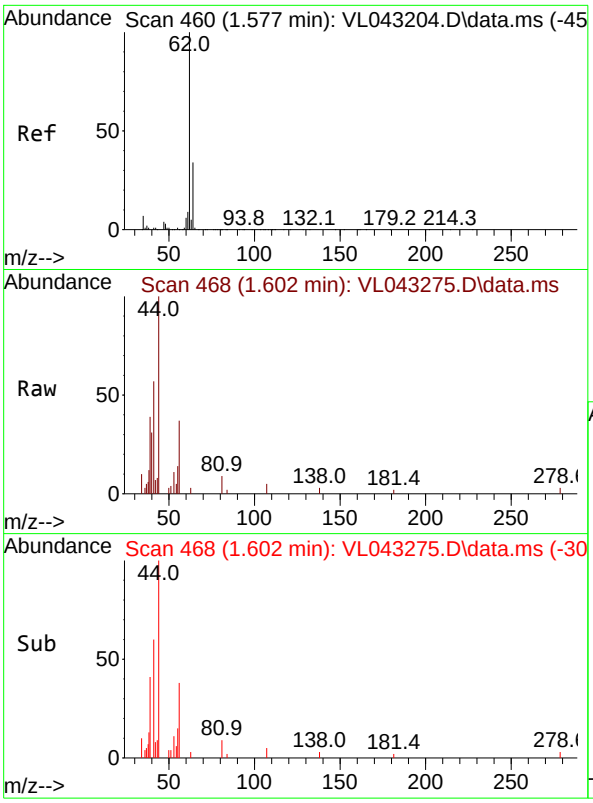


#4
Chloromethane
Concen: 0.045 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 50 Resp: 238

Ion	Ratio	Lower	Upper
50	100		
52	21.1	24.1	36.1#



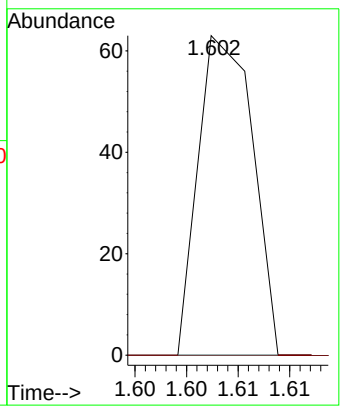


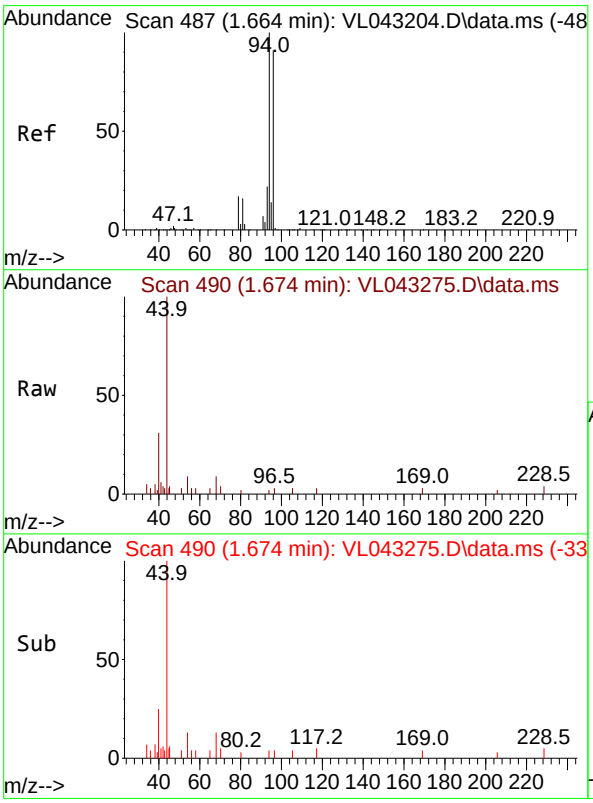
#5
Vinyl Chloride
Concen: 0.004 ppbv
RT: 1.602 min Scan# 4
Delta R.T. 0.026 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 62 Resp: 23

Ion	Ratio	Lower	Upper
62	100		
64	0.0	27.3	40.9#

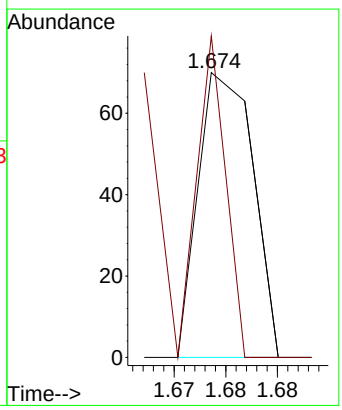


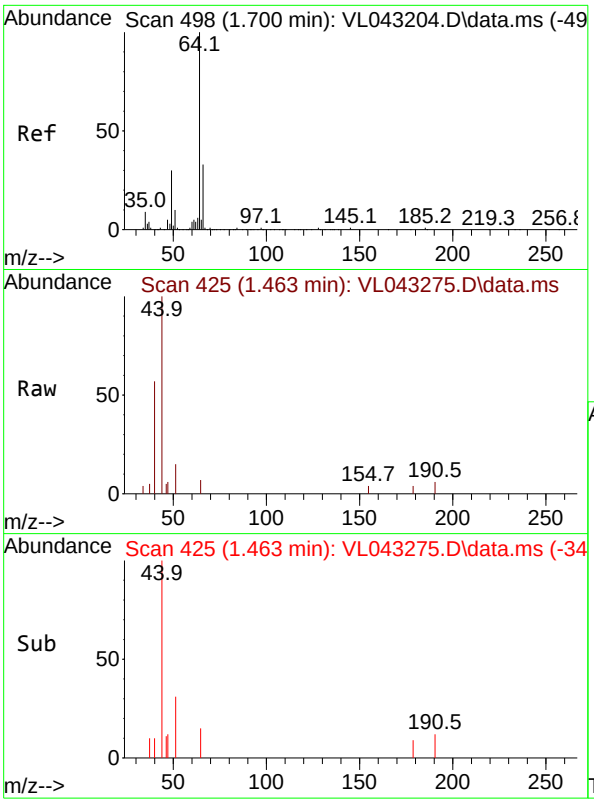


#6
Bromomethane
Concen: 0.009 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.009 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 94 Resp: 26

Ion	Ratio	Lower	Upper
94	100		
96	112.9	72.9	109.3#



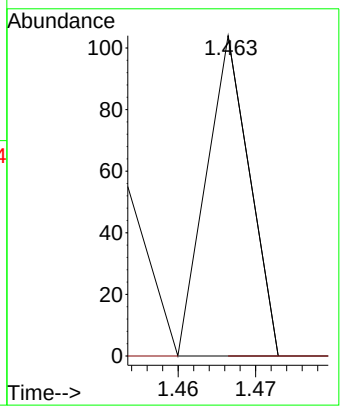


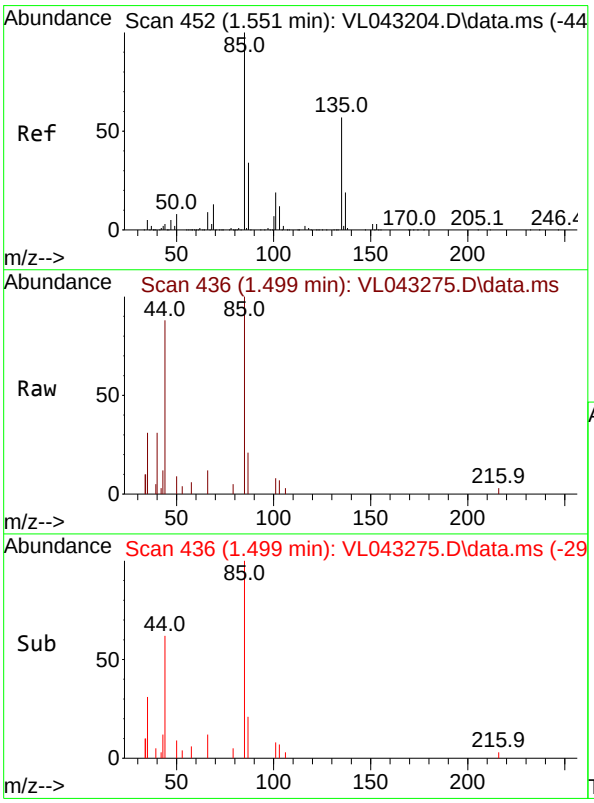
#7
Chloroethane
Concen: 0.009 ppbv
RT: 1.463 min Scan# 4
Delta R.T. -0.237 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 64 Resp: 20

Ion	Ratio	Lower	Upper
64	100		
66	0.0	26.8	40.2#

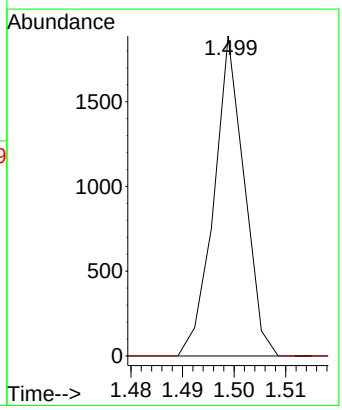


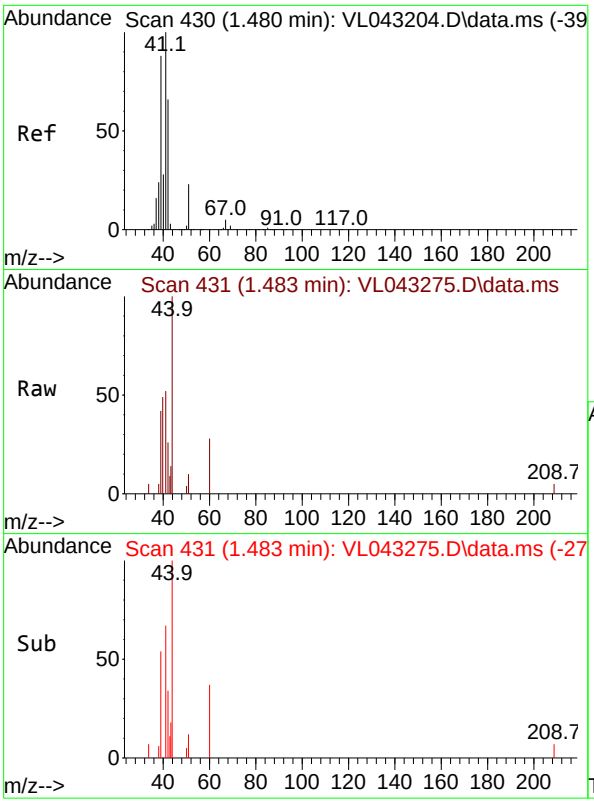


#8
Dichlorotetrafluoroethane
Concen: 0.066 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.052 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 85 Resp: 771

Ion	Ratio	Lower	Upper
85	100		
135	0.0	52.6	79.0#



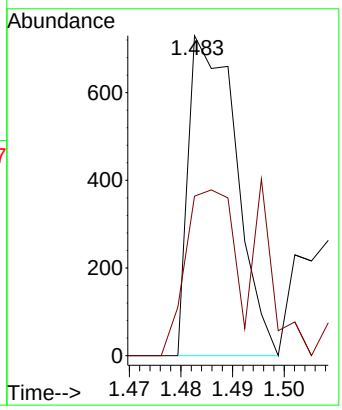


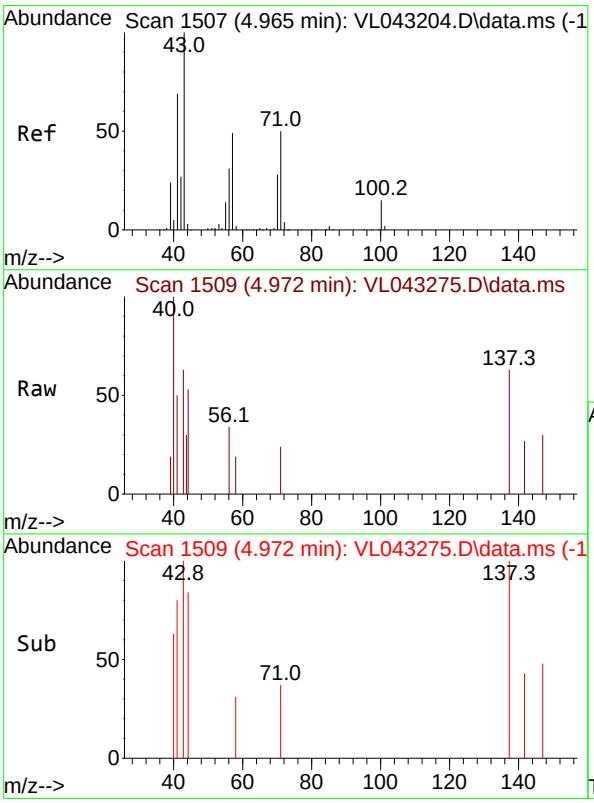
#9
Propene
Concen: 0.079 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 41 Resp: 466

Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5#

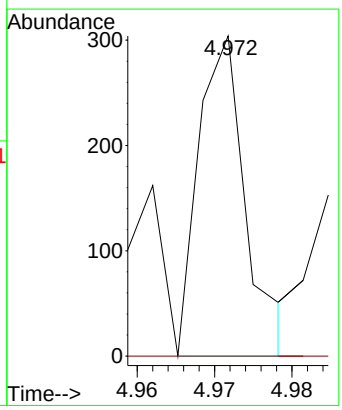


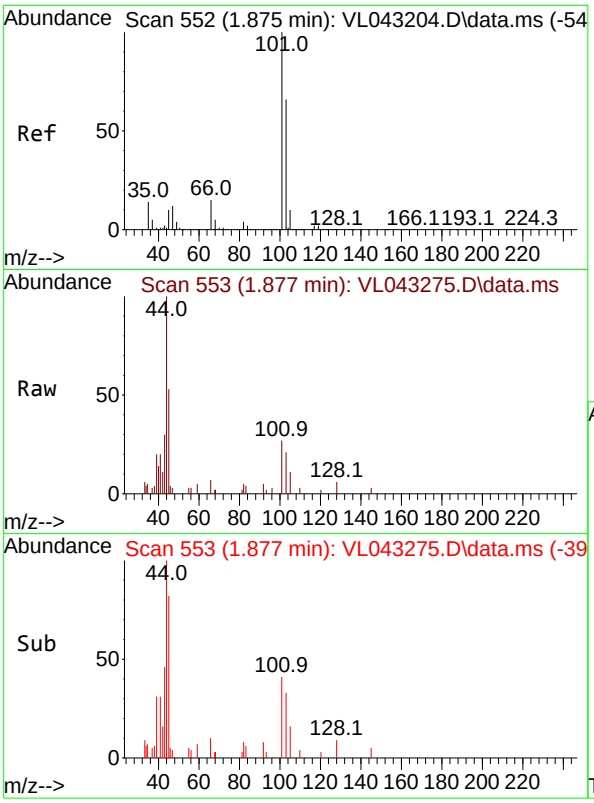


#10
Heptane
Concen: 0.007 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 43 Resp: 129

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#



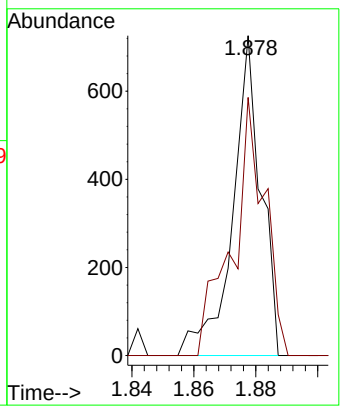


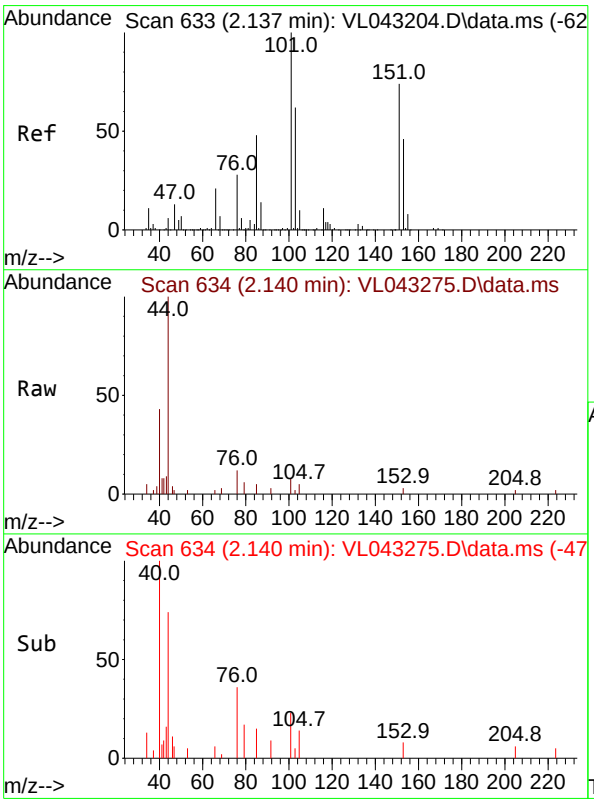
#11
Trichlorofluoromethane
Concen: 0.034 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:101 Resp: 460

Ion	Ratio	Lower	Upper
101	100		
103	80.7	52.6	79.0#

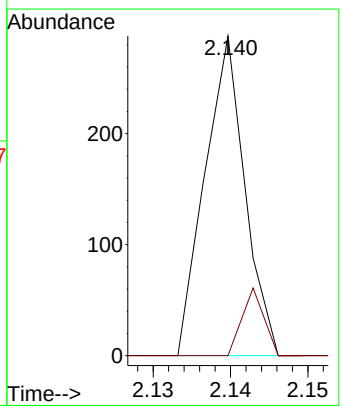


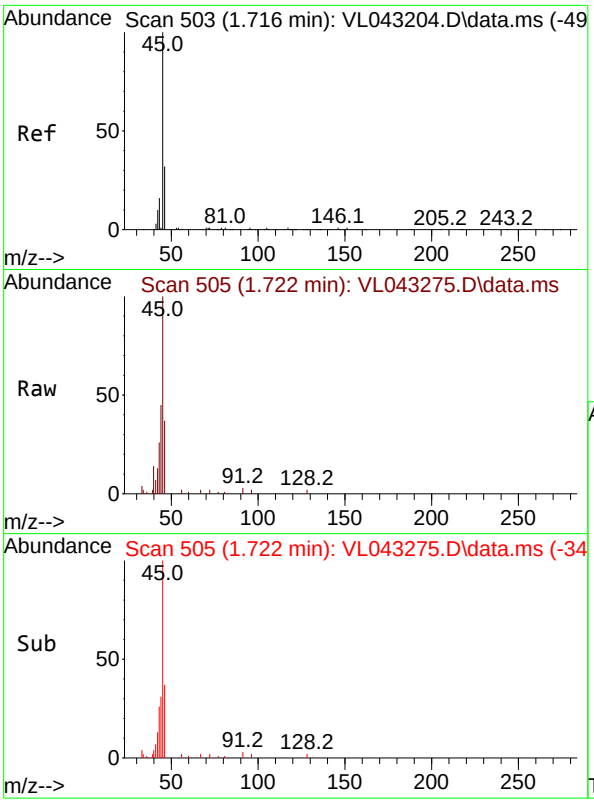


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.010 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:101 Resp: 103

Ion	Ratio	Lower	Upper
101	100		
151	0.0	59.2	88.8#



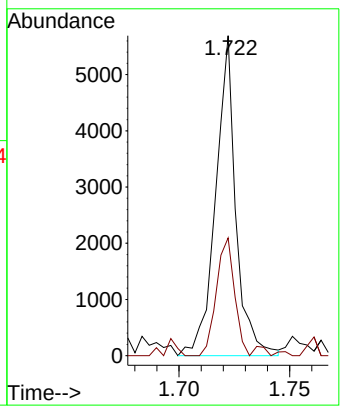


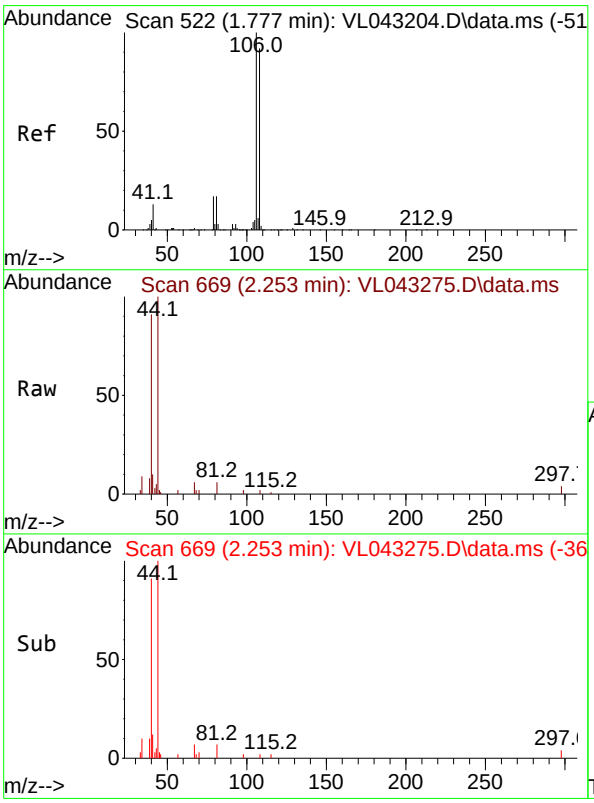
#13
Ethanol
Concen: 1.752 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 45 Resp: 3624

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.0	59.8#

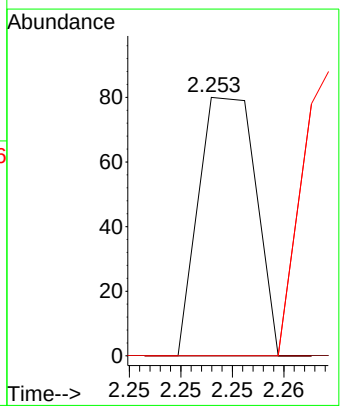


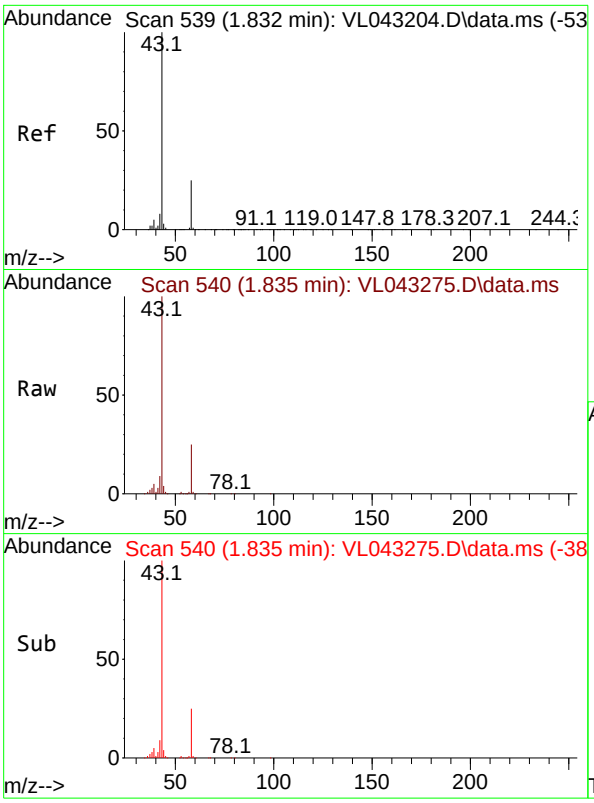


#14
Bromoethene
Concen: 0.008 ppbv
RT: 2.253 min Scan# 669
Delta R.T. 0.476 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:108 Resp: 31

Ion	Ratio	Lower	Upper
108	100		
106	0.0	88.9	133.3#
79	961.3	16.5	24.7#



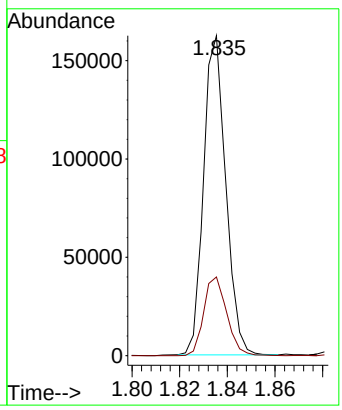


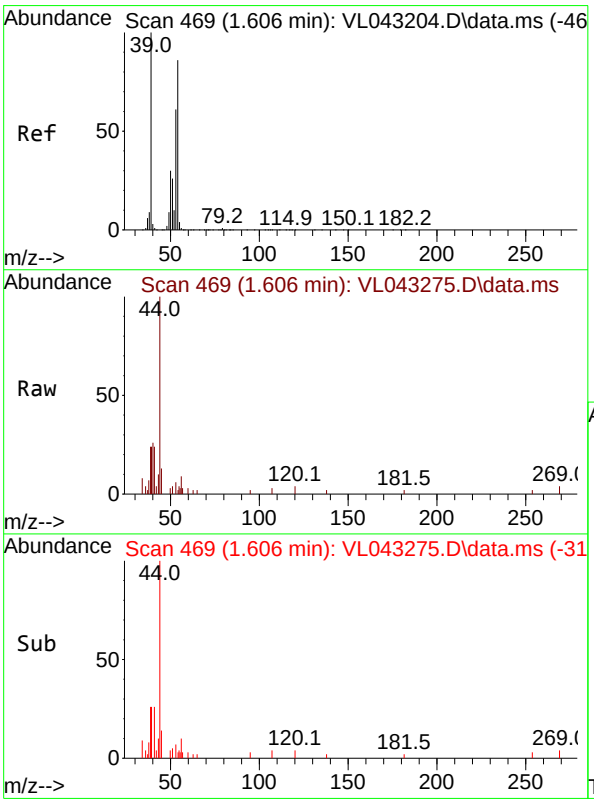
#15
Acetone
Concen: 7.565 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 43 Resp: 104948

Ion	Ratio	Lower	Upper
43	100		
58	25.7	20.7	31.1

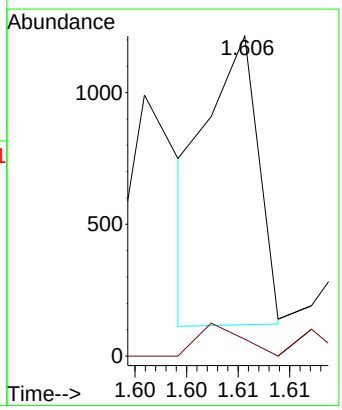


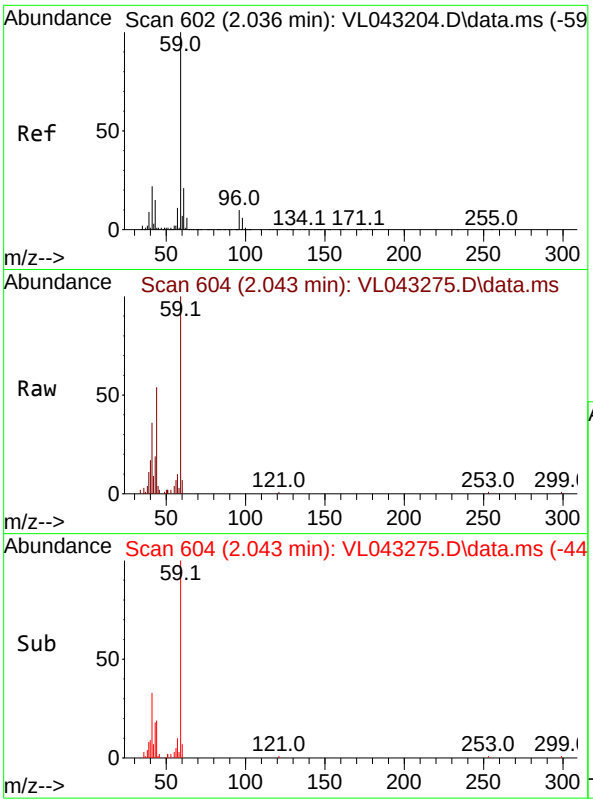


#16
1,3-Butadiene
Concen: 0.060 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 39 Resp: 371

Ion	Ratio	Lower	Upper
39	100		
54	0.0	59.4	89.2#



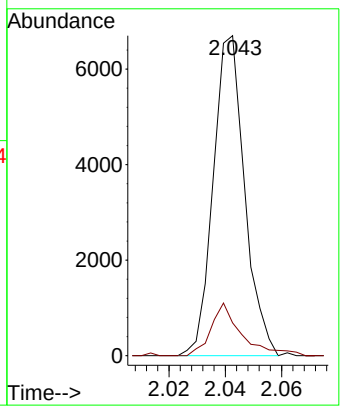


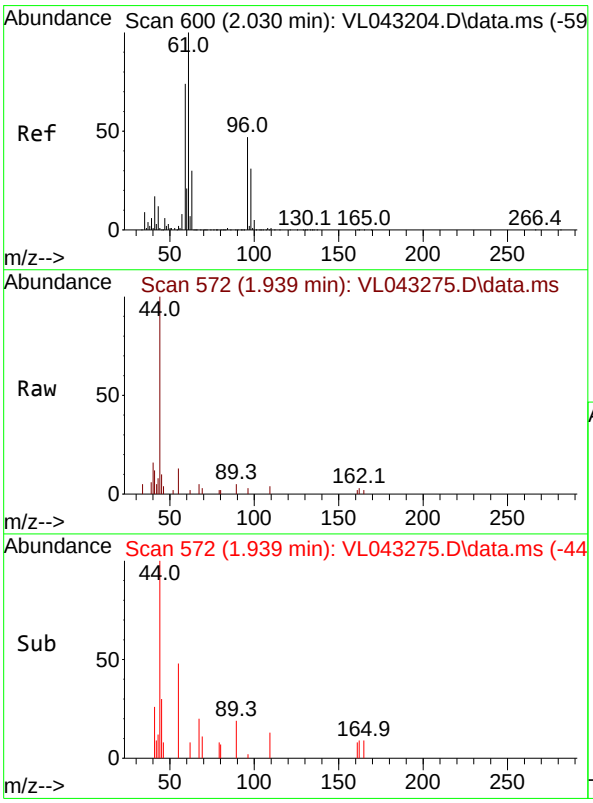
#17
tert-Butyl alcohol
Concen: 0.285 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 59 Resp: 5189

Ion	Ratio	Lower	Upper
59	100		
57	15.9	9.0	13.4#

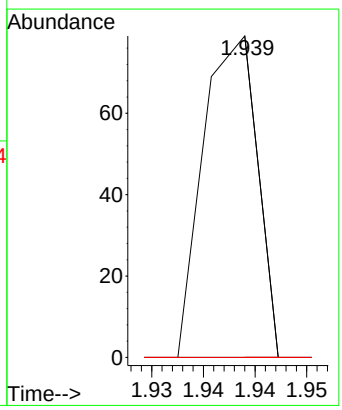


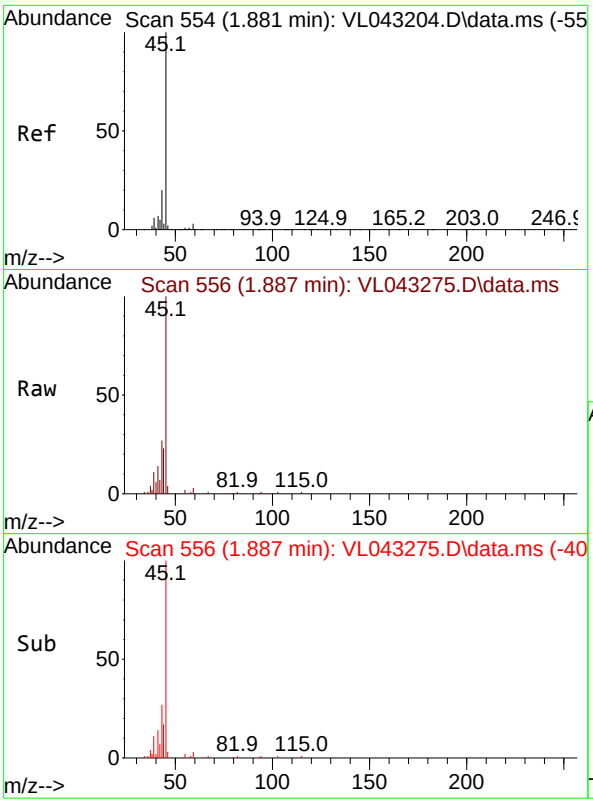


#18
1,1-Dichloroethene
Concen: 0.006 ppbv
RT: 1.939 min Scan# 572
Delta R.T. -0.091 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 96 Resp: 29

Ion	Ratio	Lower	Upper
96	100		
61	0.0	170.6	255.8#
98	0.0	52.2	78.4#



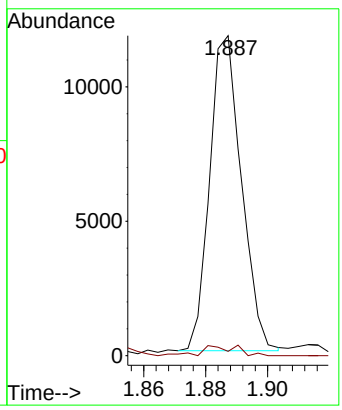


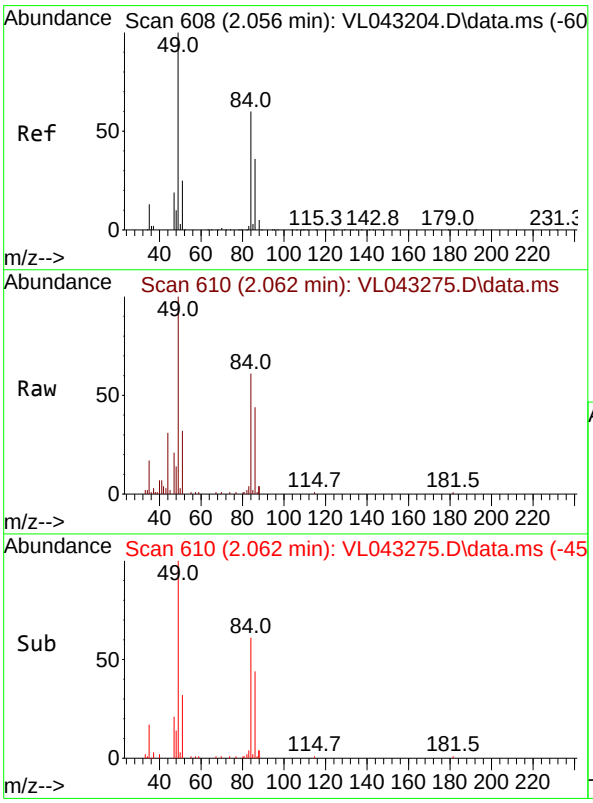
#19
Isopropyl Alcohol
Concen: 1.064 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 45 Resp: 8343

Ion	Ratio	Lower	Upper
45	100		
58	322.5	31.3	46.9#

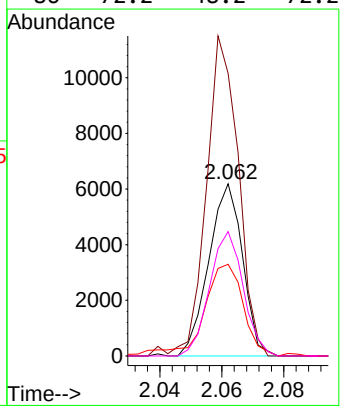


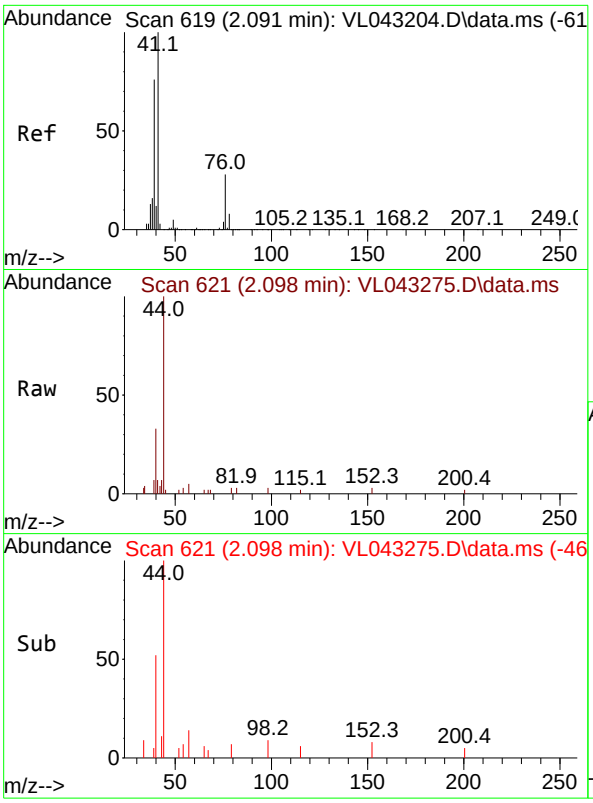


#20
Methylene Chloride
Concen: 0.392 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 84 Resp: 4686

Ion	Ratio	Lower	Upper
84	100		
49	164.2	132.9	199.3
51	53.3	34.8	52.2#
86	72.2	48.2	72.2



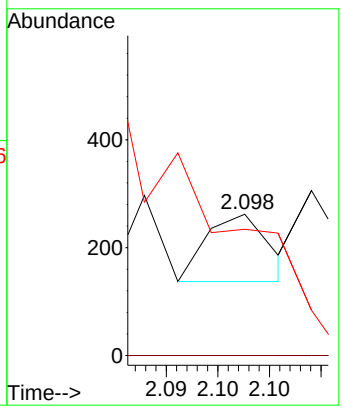


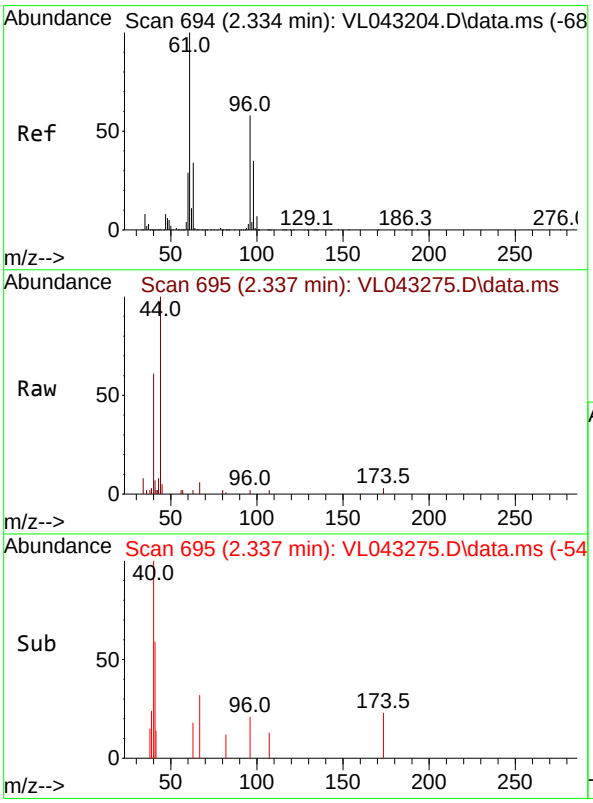
#21
Allyl Chloride
Concen: 0.006 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 41 Resp: 53

Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.1	33.1#
39	0.0	61.0	91.4#

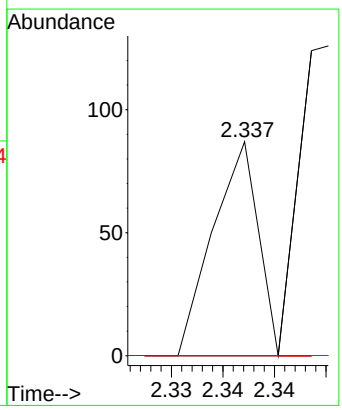


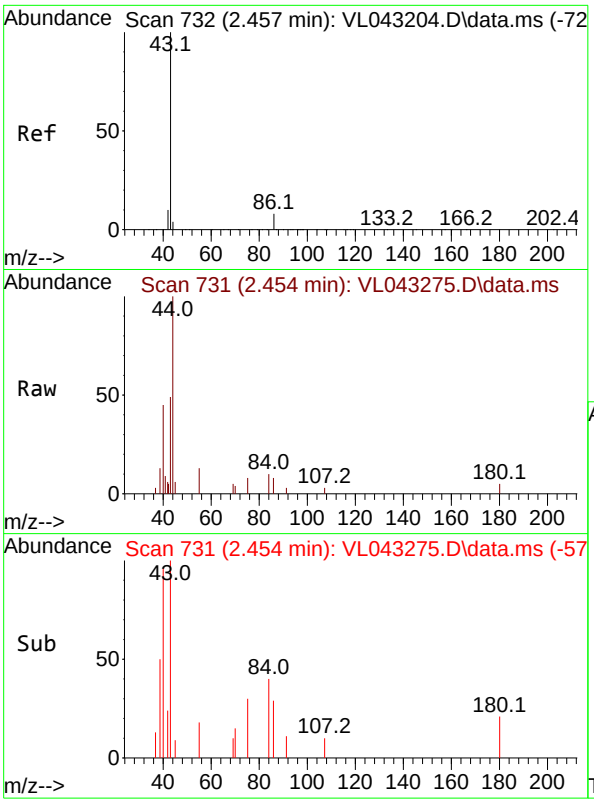


#22
trans-1,2-Dichloroethene
Concen: 0.005 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 96 Resp: 27

Ion	Ratio	Lower	Upper
96	100		
61	0.0	139.0	208.6#
98	0.0	49.4	74.2#



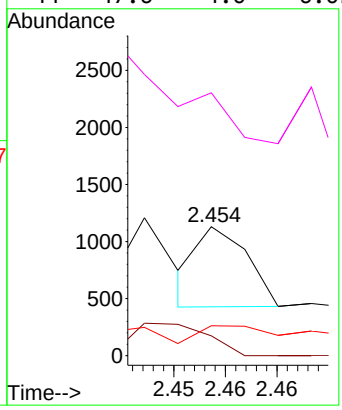


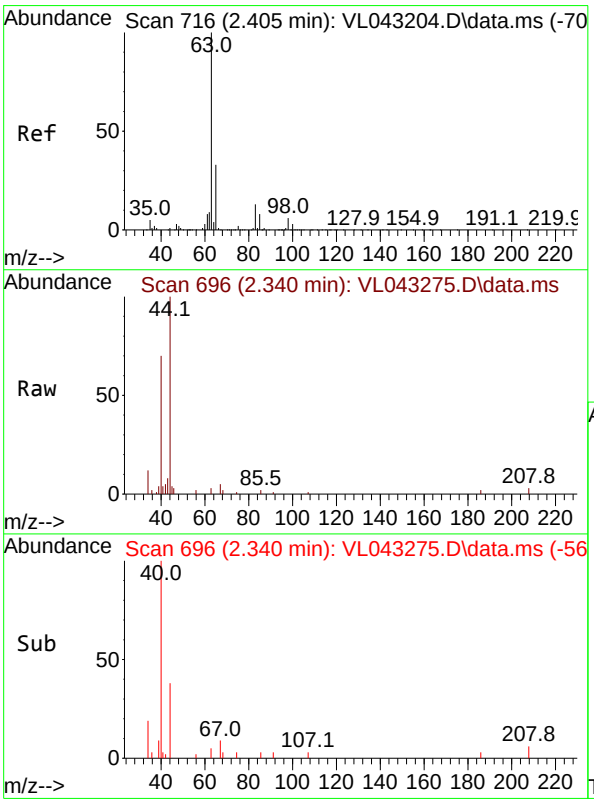
#23
Vinyl Acetate
Concen: 0.014 ppbv
RT: 2.454 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 43 Resp: 235

Ion	Ratio	Lower	Upper
43	100		
86	24.9	6.2	9.2#
42	22.3	8.0	12.0#
44	47.6	4.0	6.0#

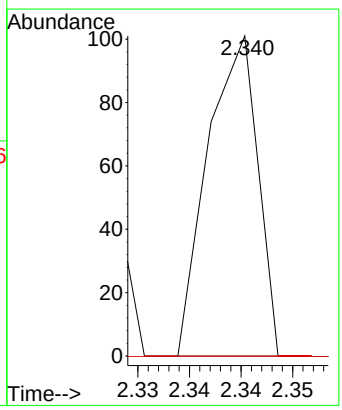


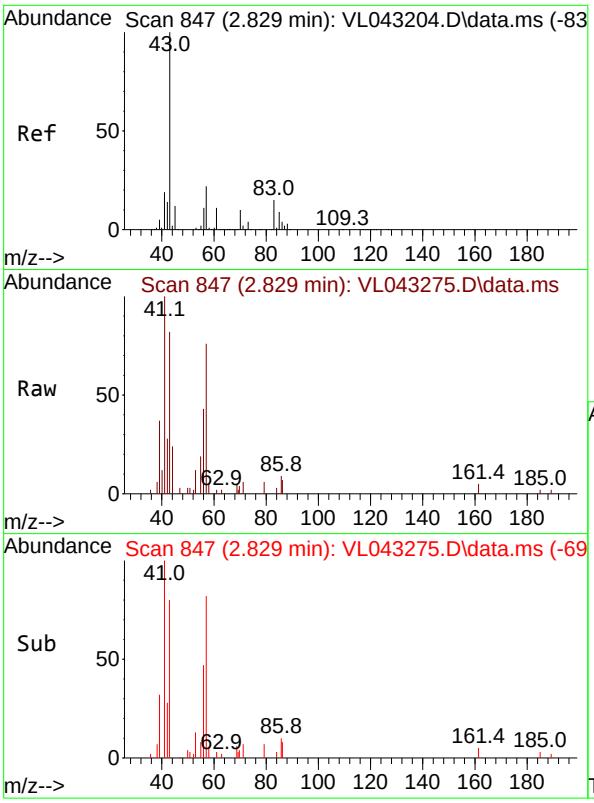


#24
1,1-Dichloroethane
Concen: 0.003 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.065 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 63 Resp: 34

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.8	8.4#
100	0.0	1.3	3.9#



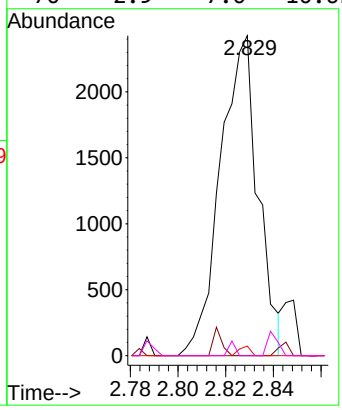


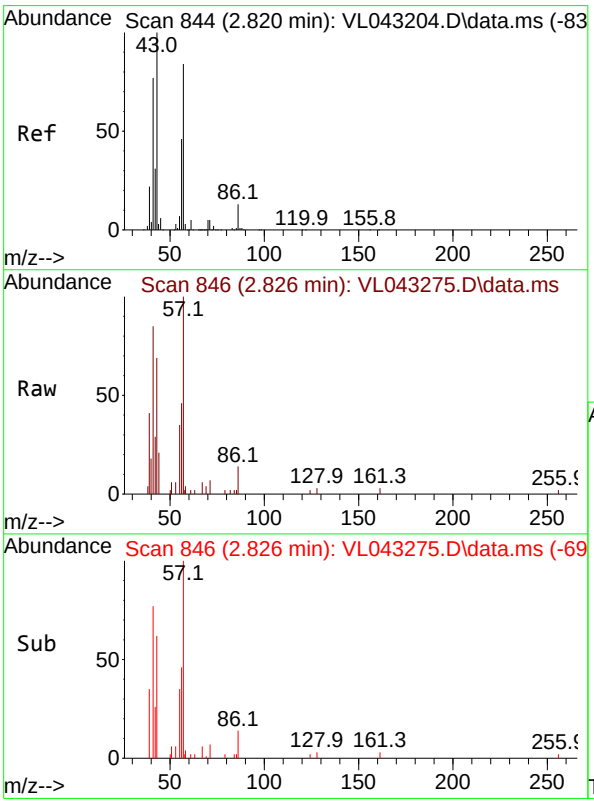
#25
Ethyl Acetate
Concen: 0.089 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 43 Resp: 2661

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	0.9	7.0	10.4#
70	2.9	7.0	10.6#

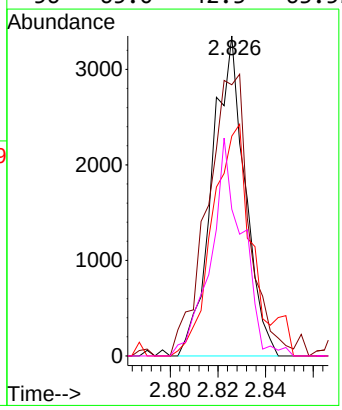


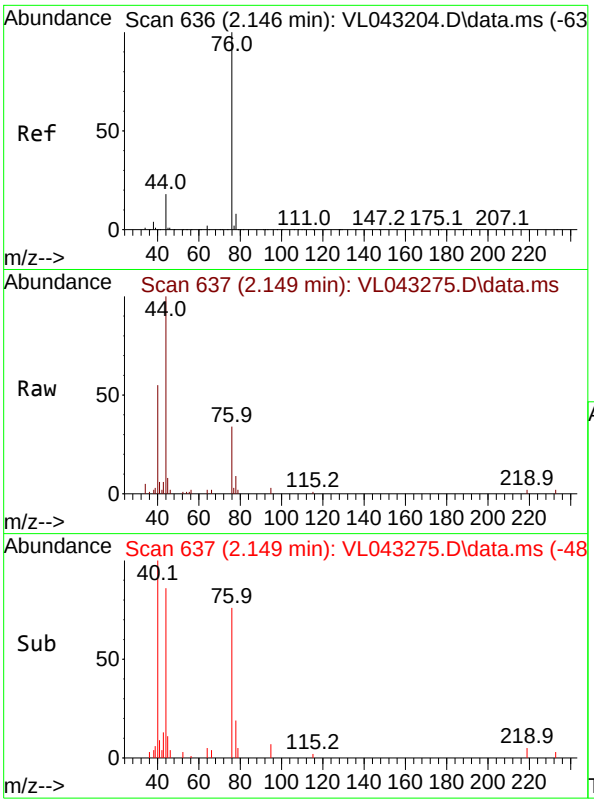


#26
Hexane
Concen: 0.246 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 57 Resp: 3223

Ion	Ratio	Lower	Upper
57	100		
41	113.9	74.6	111.8#
43	87.6	179.0	268.4#
56	65.0	42.3	63.5#



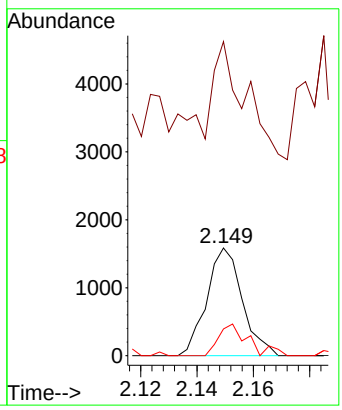


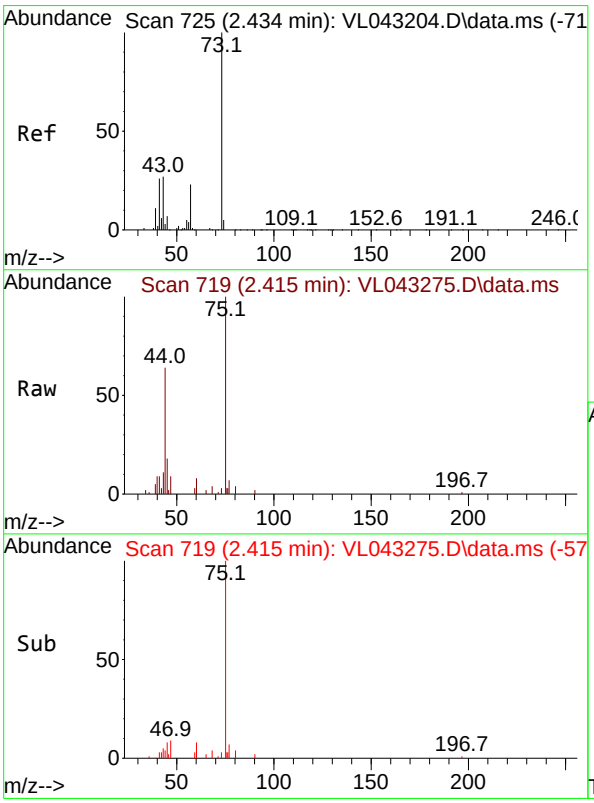
#27
Carbon Disulfide
Concen: 0.104 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 76 Resp: 1390

Ion	Ratio	Lower	Upper
76	100		
44	193.9	16.1	24.1#
78	28.8	9.6	14.4#

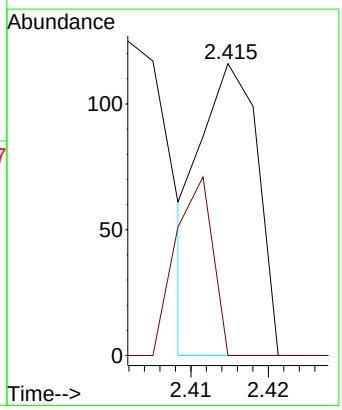


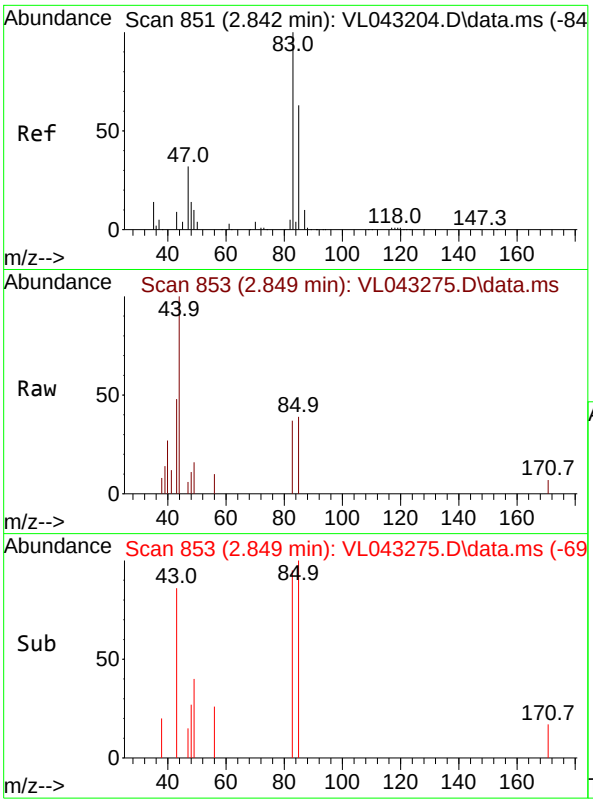


#28
Methyl tert-Butyl Ether
Concen: 0.009 ppbv
RT: 2.415 min Scan# 719
Delta R.T. -0.020 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 73 Resp: 59

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.8	29.8#



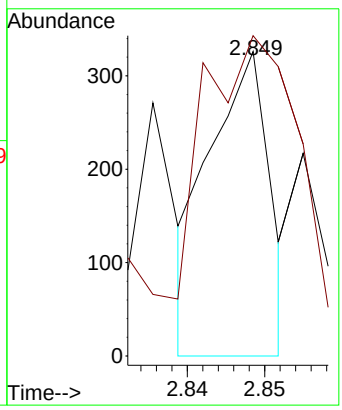


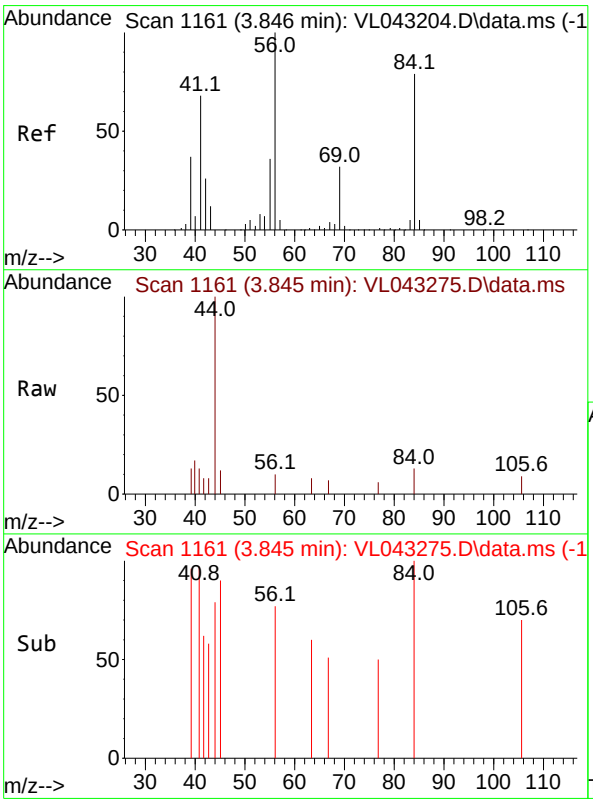
#29
Chloroform
Concen: 0.009 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 83 Resp: 177

Ion	Ratio	Lower	Upper
83	100		
85	138.2	50.5	75.7#

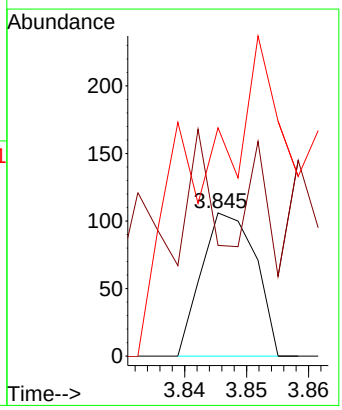


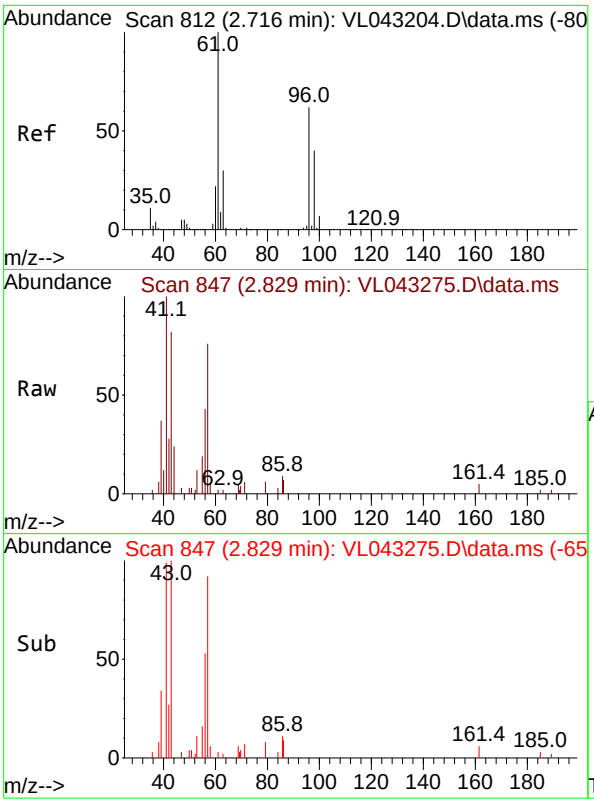


#30
Cyclohexane
Concen: 0.006 ppbv
RT: 3.845 min Scan# 1161
Delta R.T. -0.000 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 84 Resp: 64

Ion	Ratio	Lower	Upper
84	100		
56	0.0	104.7	157.1#
41	642.2	69.0	103.6#



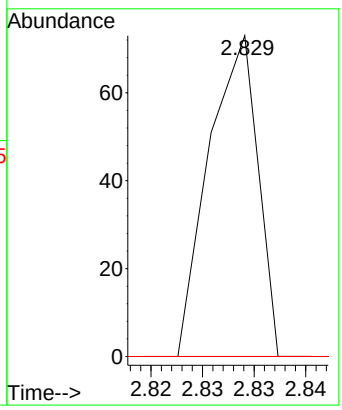


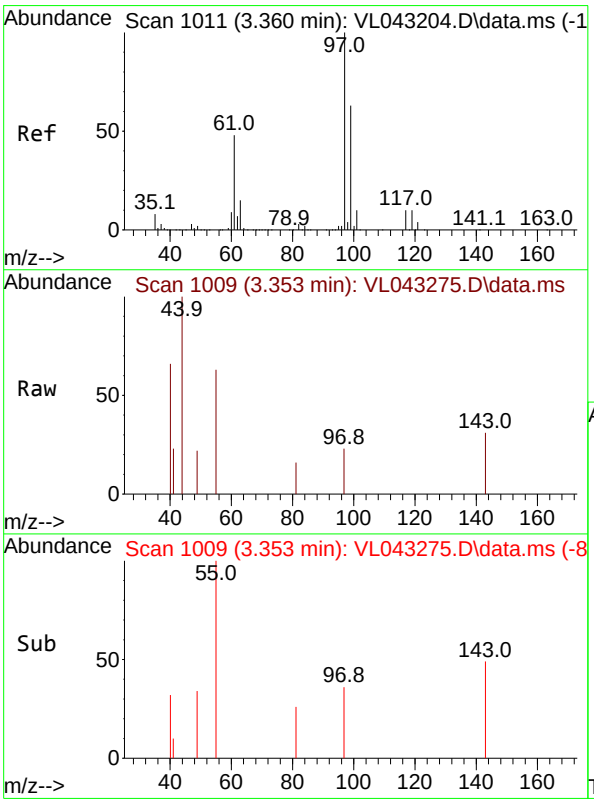
#31
cis-1,2-Dichloroethene
Concen: 0.002 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.113 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 61 Resp: 24

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.3	73.9#
98	0.0	32.1	48.1#

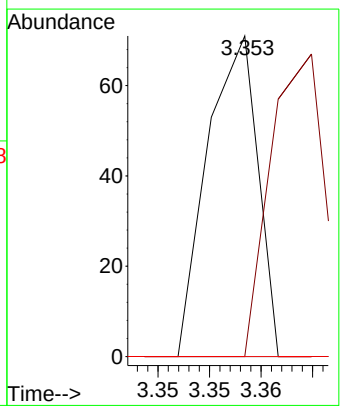


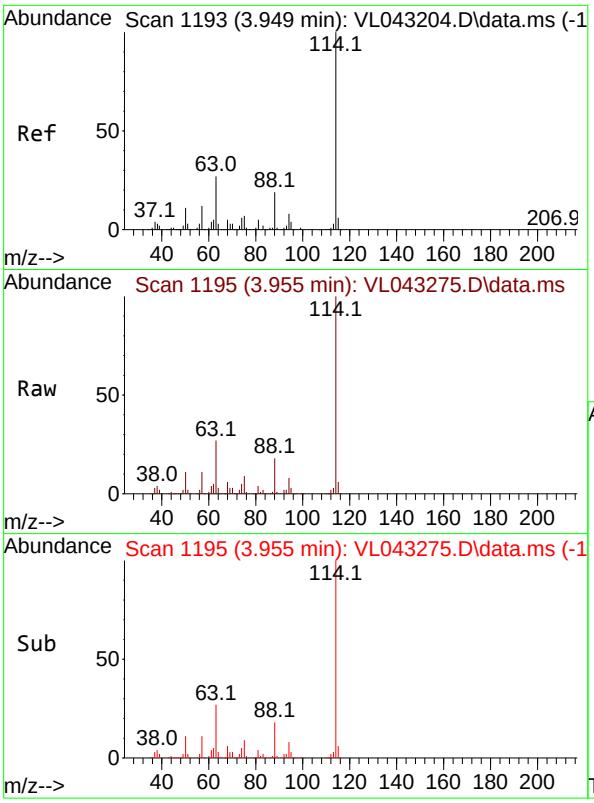


#32
1,1,1-Trichloroethane
Concen: 0.001 ppbv
RT: 3.353 min Scan# 1009
Delta R.T. -0.007 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 97 Resp: 24

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.3	75.5#
61	104.2	38.9	58.3#



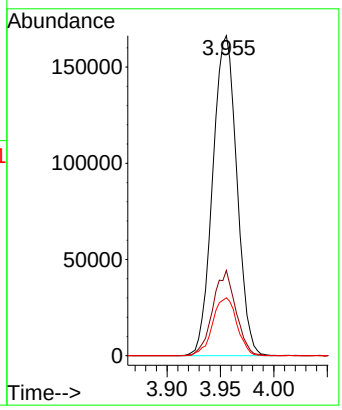


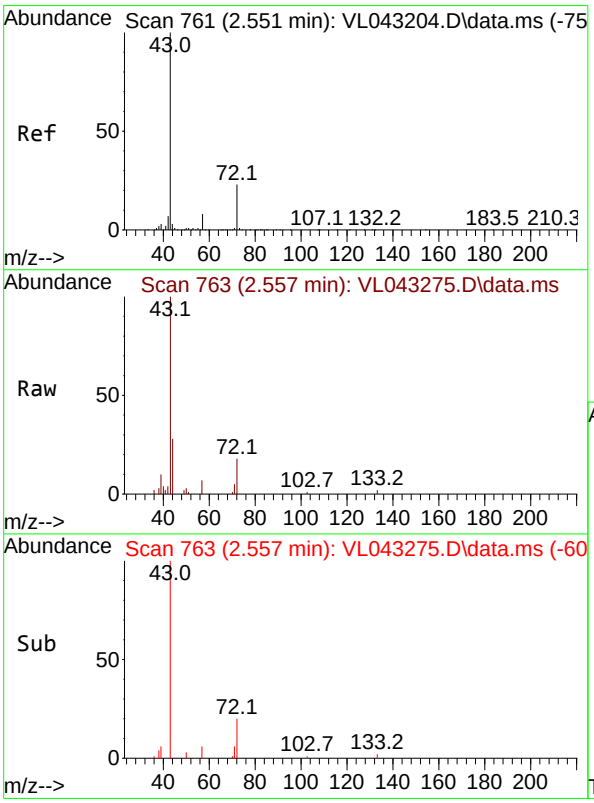
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:114 Resp: 261008

Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.0	31.6
88	18.2	14.9	22.3

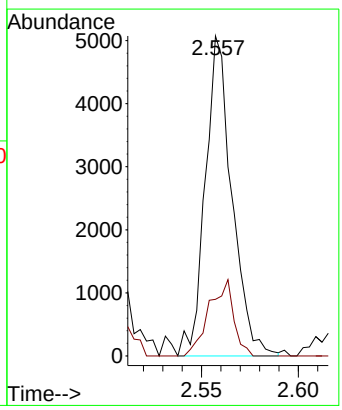


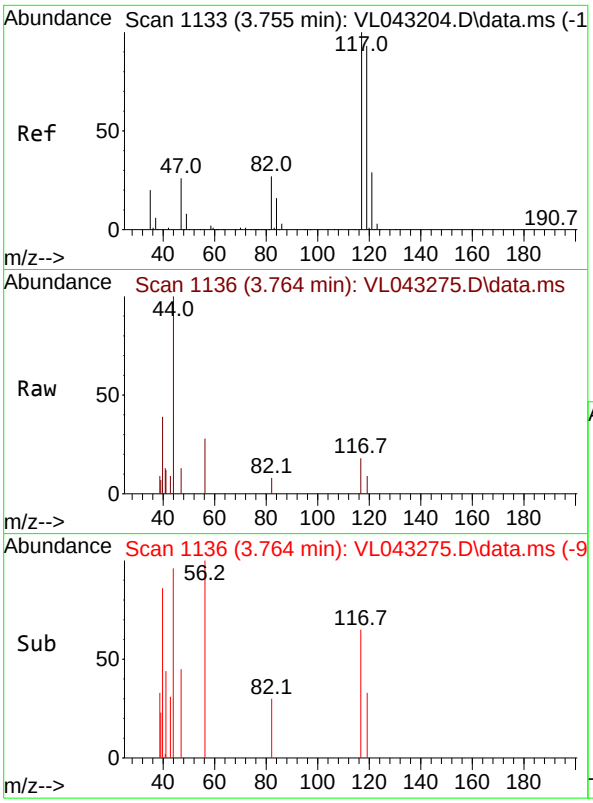


#34
2-Butanone
Concen: 0.265 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 43 Resp: 4874

Ion	Ratio	Lower	Upper
43	100		
72	22.0	18.1	27.1



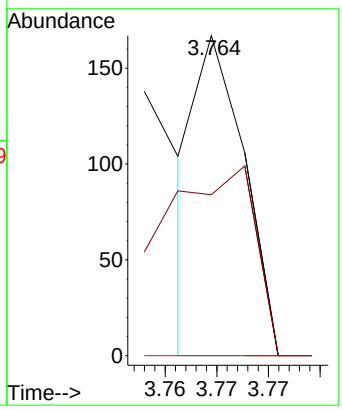


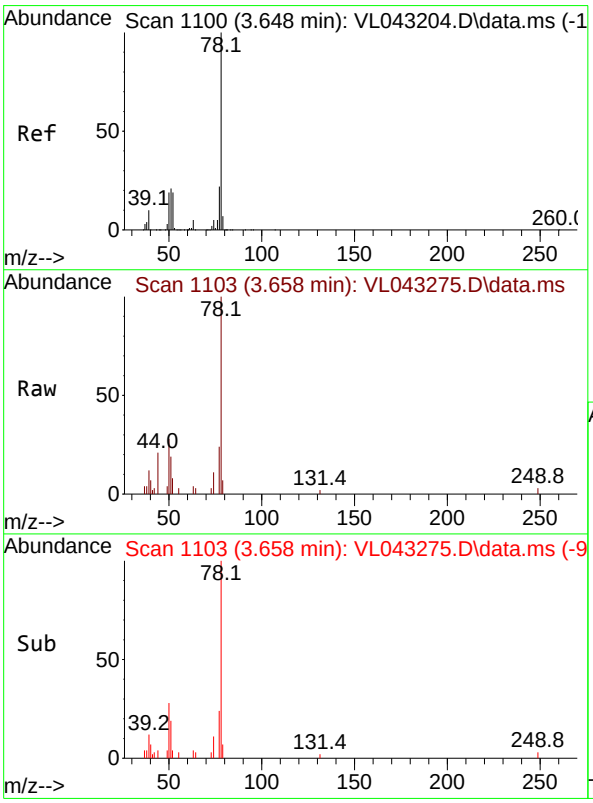
#35
Carbon Tetrachloride
Concen: 0.003 ppbv
RT: 3.764 min Scan# 11
Delta R.T. 0.009 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:117 Resp: 53

Ion	Ratio	Lower	Upper
117	100		
119	50.3	74.6	112.0#
121	0.0	23.2	34.8#

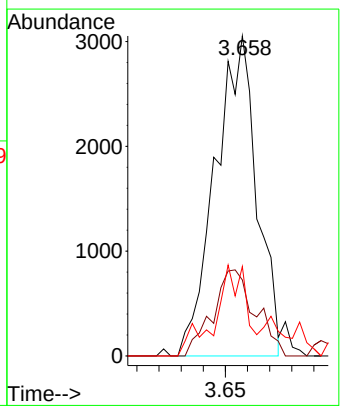


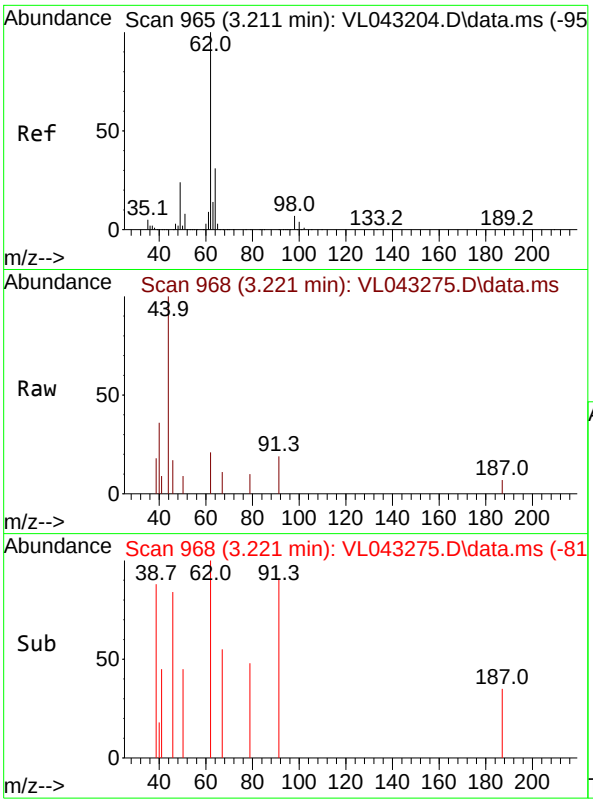


#36
Benzene
Concen: 0.160 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.009 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 78 Resp: 3988

Ion	Ratio	Lower	Upper
78	100		
77	23.7	17.5	26.3
50	27.9	15.5	23.3#



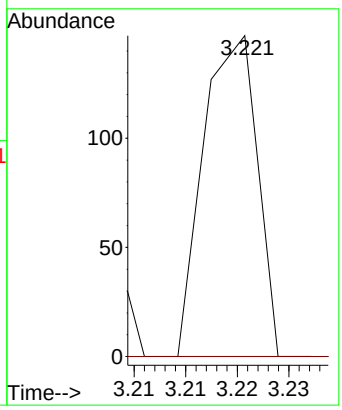


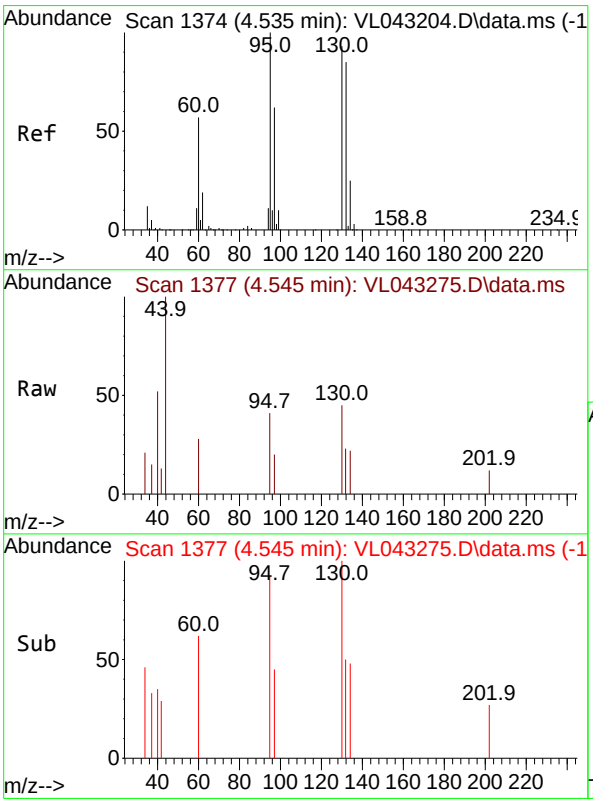
#37
1,2-Dichloroethane
Concen: 0.004 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.009 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 62 Resp: 53

Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.5	8.3#

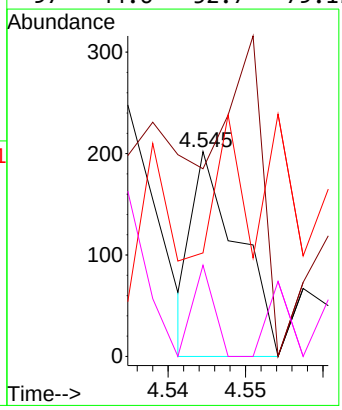


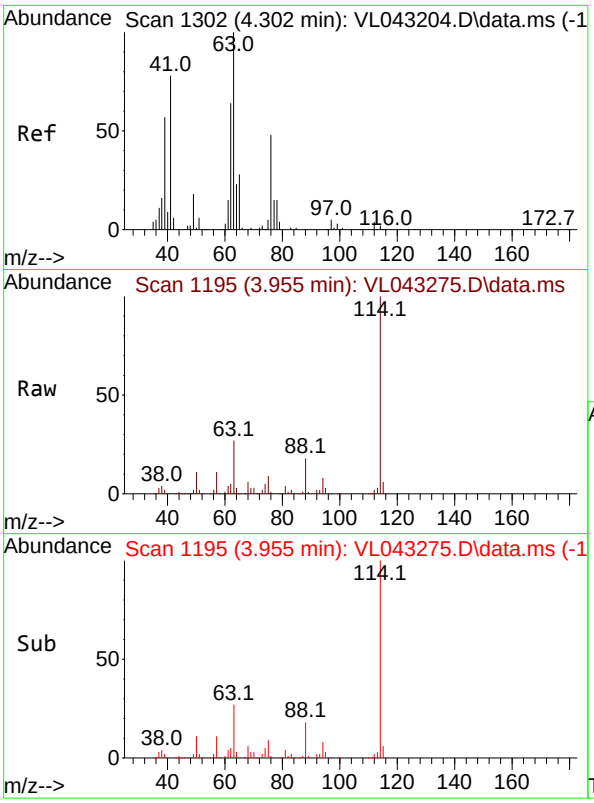


#38
Trichloroethene
Concen: 0.008 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.009 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:130 Resp: 83

Ion	Ratio	Lower	Upper
130	100		
95	91.6	85.7	128.5
132	4.0	73.4	110.0#
97	44.6	52.7	79.1#



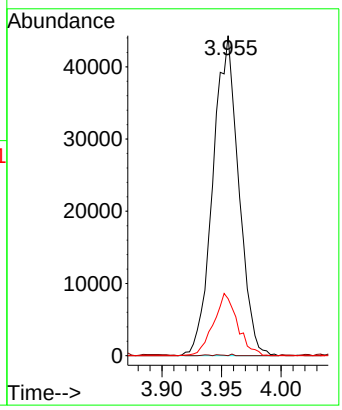


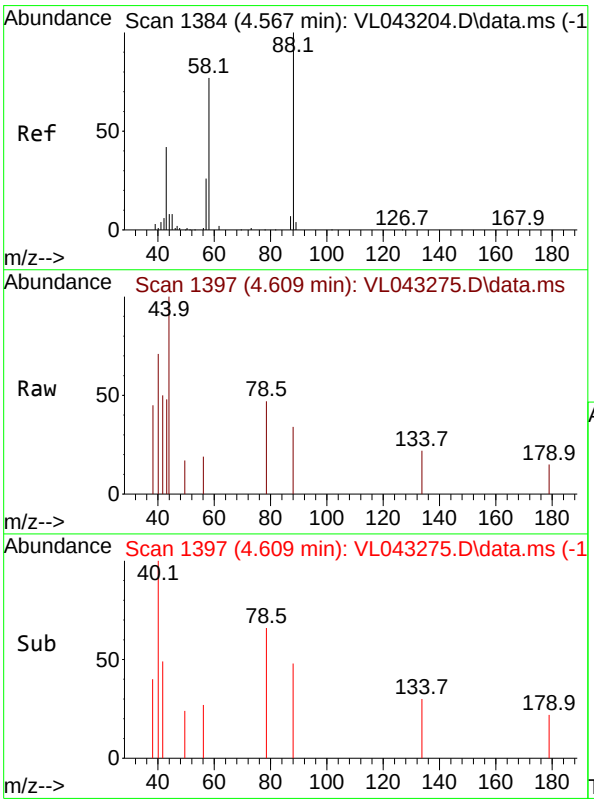
#39
1,2-Dichloropropane
Concen: 7.289 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.347 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 63 Resp: 66687

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.6	93.8#
62	17.8	51.0	76.6#

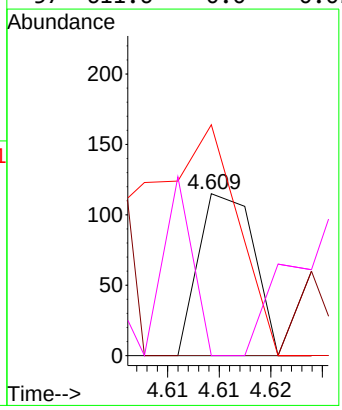


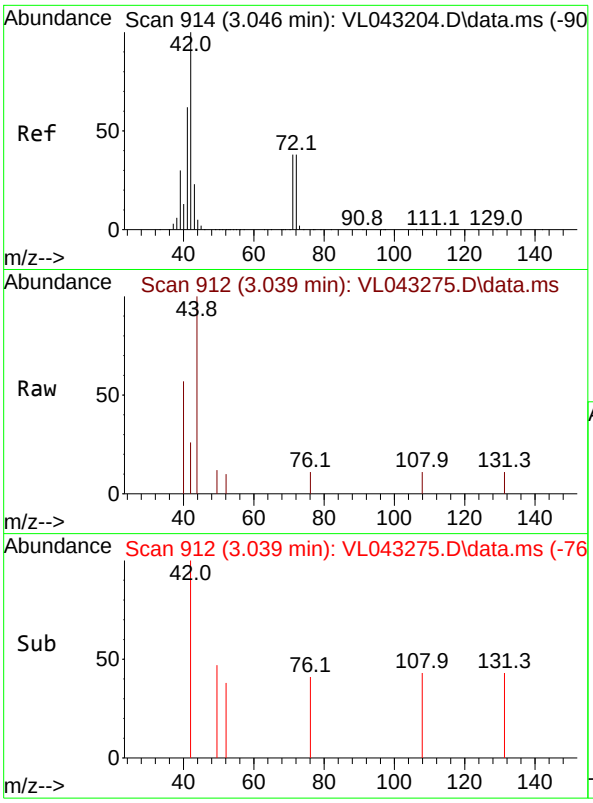


#40
1,4-Dioxane
Concen: 0.010 ppbv
RT: 4.609 min Scan# 1397
Delta R.T. 0.042 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 88 Resp: 43

Ion	Ratio	Lower	Upper
88	100		
58	269.8	63.0	94.6#
43	441.9	32.5	48.7#
57	611.6	0.0	0.0#



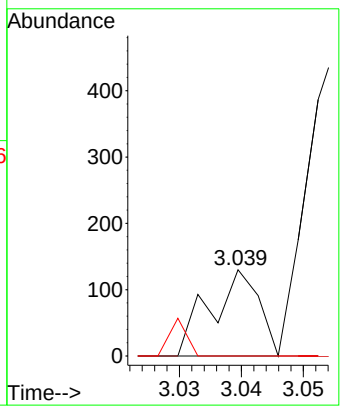


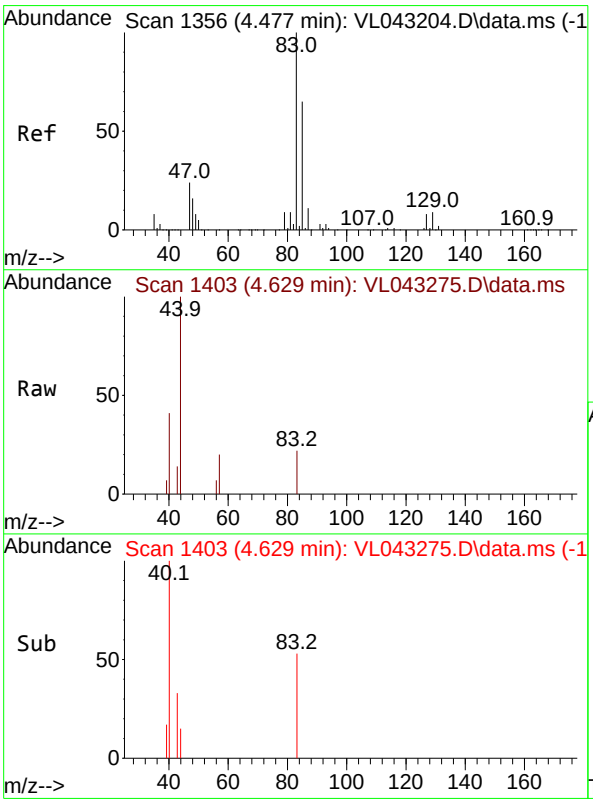
#41
Tetrahydrofuran
Concen: 0.007 ppbv
RT: 3.039 min Scan# 91
Delta R.T. -0.007 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 42 Resp: 71

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.6	46.0#
71	0.0	30.5	45.7#

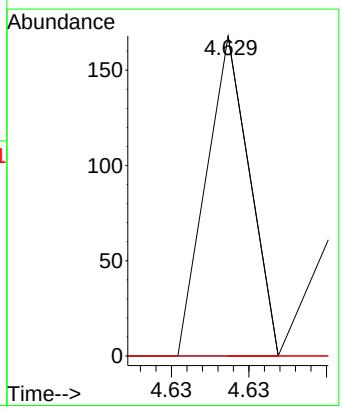


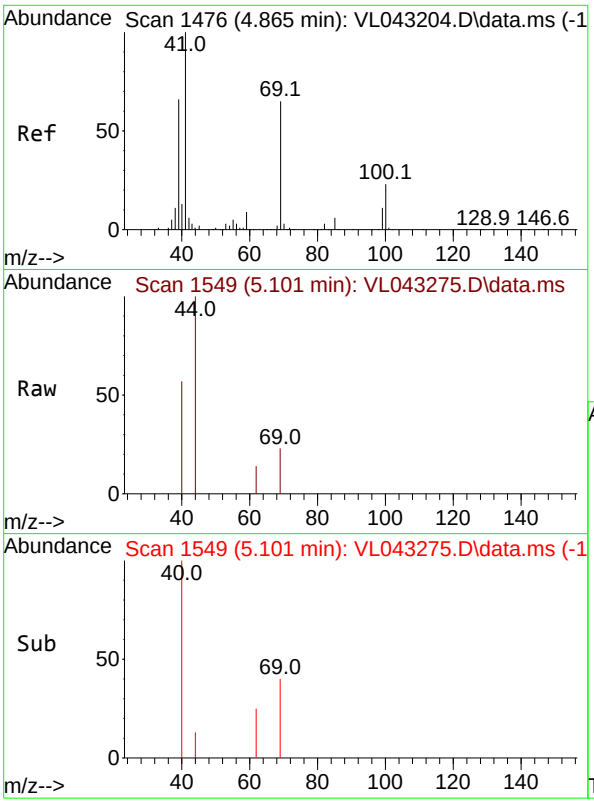


#42
Bromodichloromethane
Concen: 0.002 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. 0.152 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 83 Resp: 33

Ion	Ratio	Lower	Upper
83	100		
85	0.0	51.7	77.5#
127	0.0	6.3	9.5#



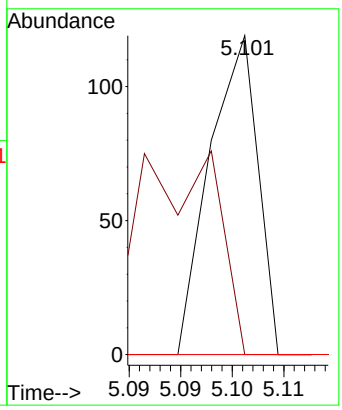


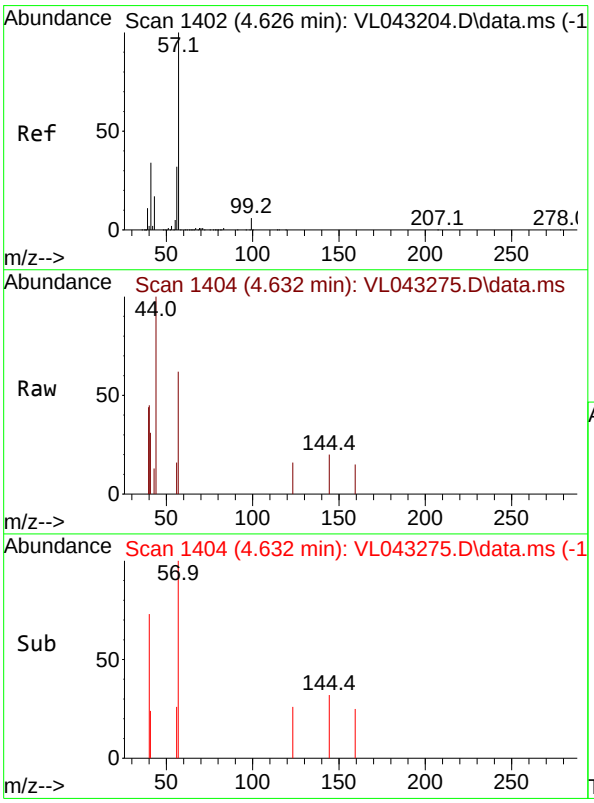
#43
Methyl Methacrylate
Concen: 0.003 ppbv
RT: 5.101 min Scan# 1
Delta R.T. 0.236 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 69 Resp: 39

Ion	Ratio	Lower	Upper
69	100		
41	100.0	126.7	190.1#
100	0.0	28.6	43.0#

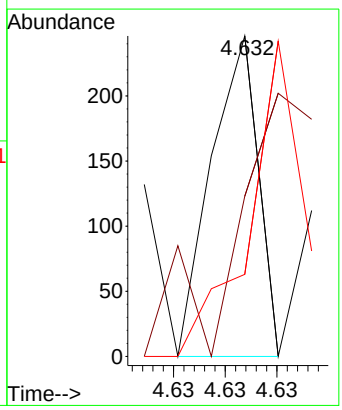


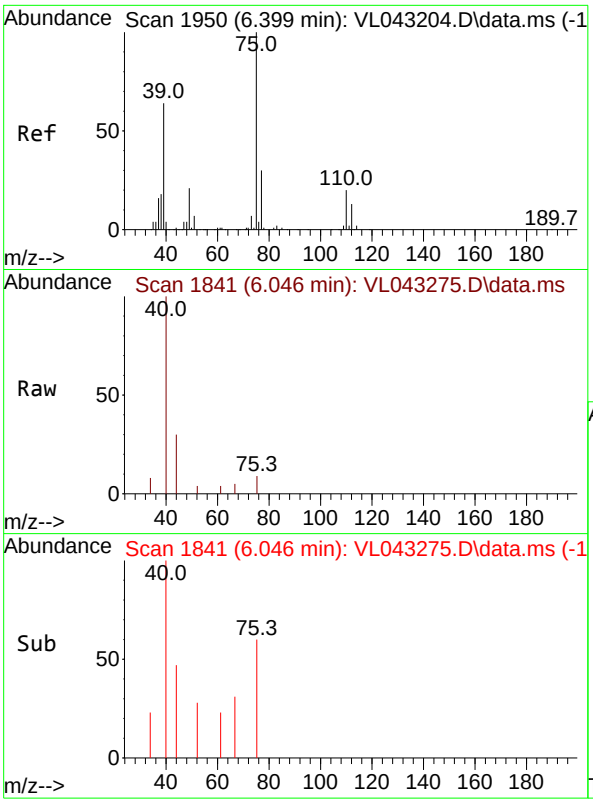


#44
2,2,4-Trimethylpentane
Concen: 0.002 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 57 Resp: 78

Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.0	42.0#
56	0.0	25.6	38.4#



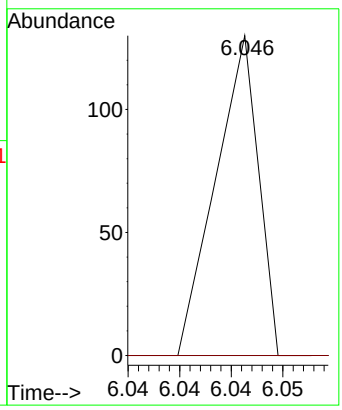


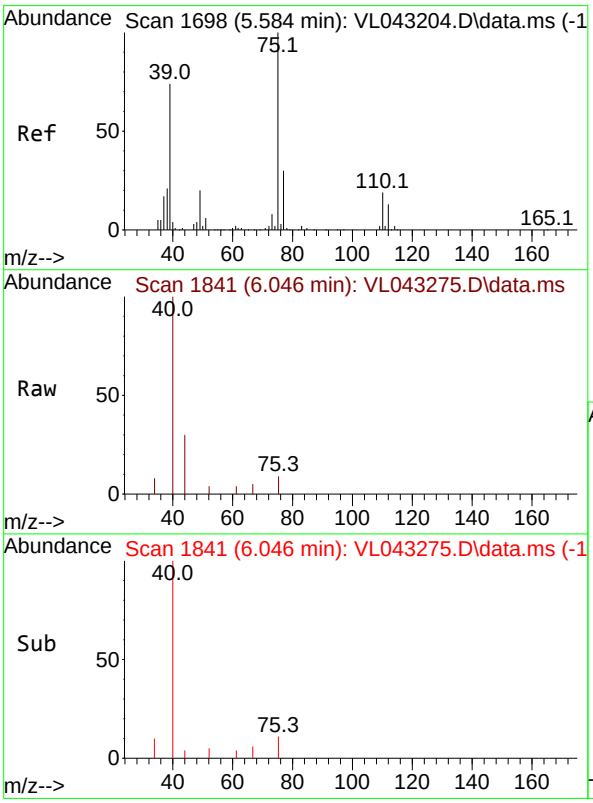
#45
t-1,3-Dichloropropene
Concen: 0.003 ppbv
RT: 6.046 min Scan# 1
Delta R.T. -0.353 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 75 Resp: 38

Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.3	36.5#

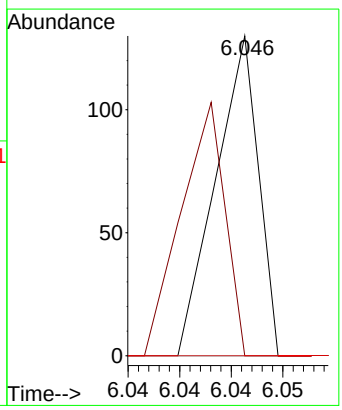


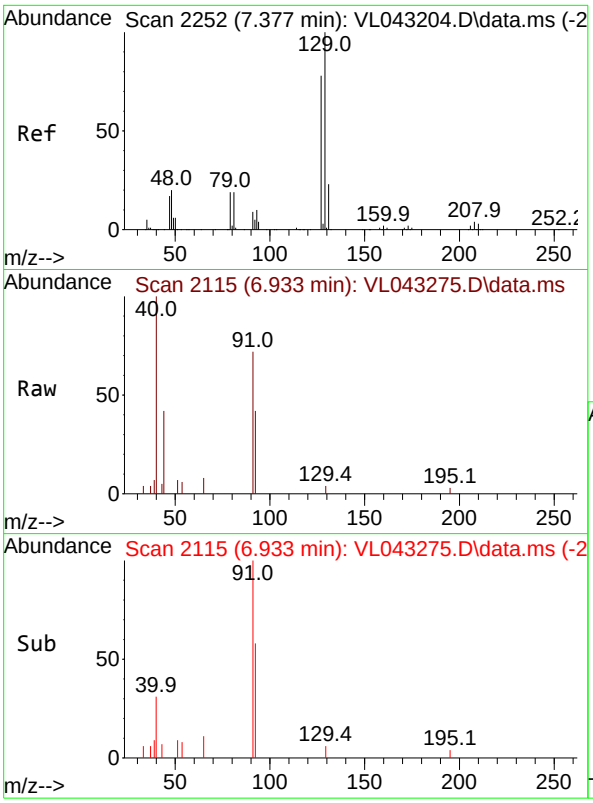


#46
cis-1,3-Dichloropropene
Concen: 0.003 ppbv
RT: 6.046 min Scan# 1841
Delta R.T. 0.463 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 75 Resp: 38

Ion	Ratio	Lower	Upper
75	100		
39	0.0	59.1	88.7#
77	0.0	24.2	36.2#



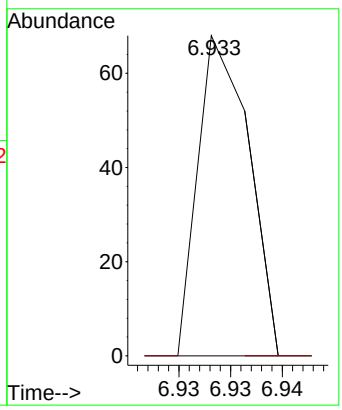


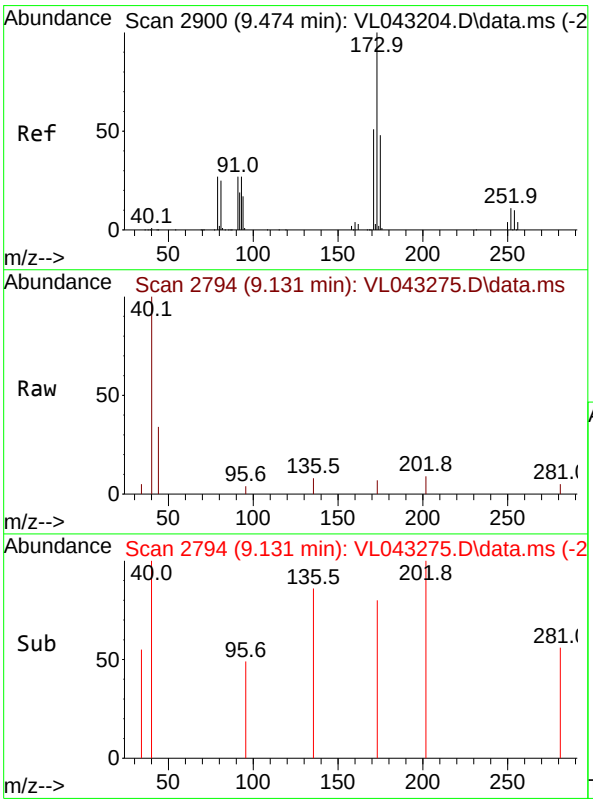
#48
Dibromochloromethane
Concen: 0.001 ppbv
RT: 6.933 min Scan# 21
Delta R.T. -0.444 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:129 Resp: 23

Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.3	117.9#

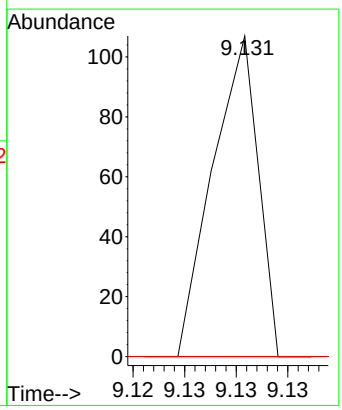


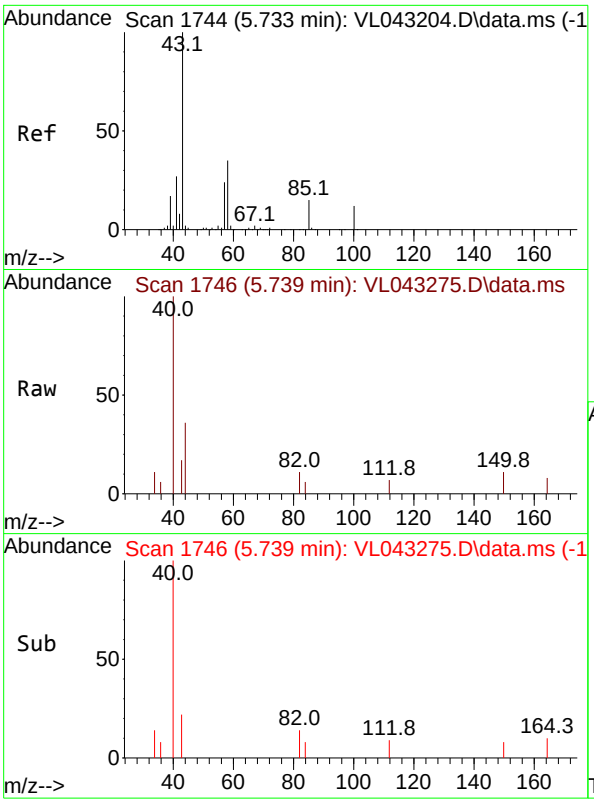


#49
Bromoform
Concen: 0.002 ppbv
RT: 9.131 min Scan# 2794
Delta R.T. -0.343 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:173 Resp: 33

Ion	Ratio	Lower	Upper
173	100		
175	0.0	38.6	58.0#
171	48.5	40.6	61.0



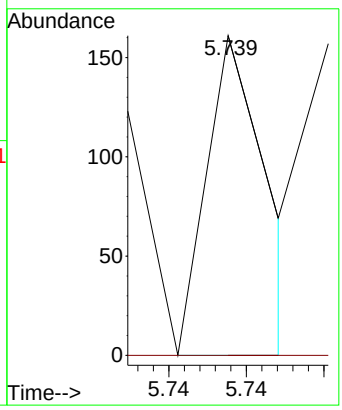


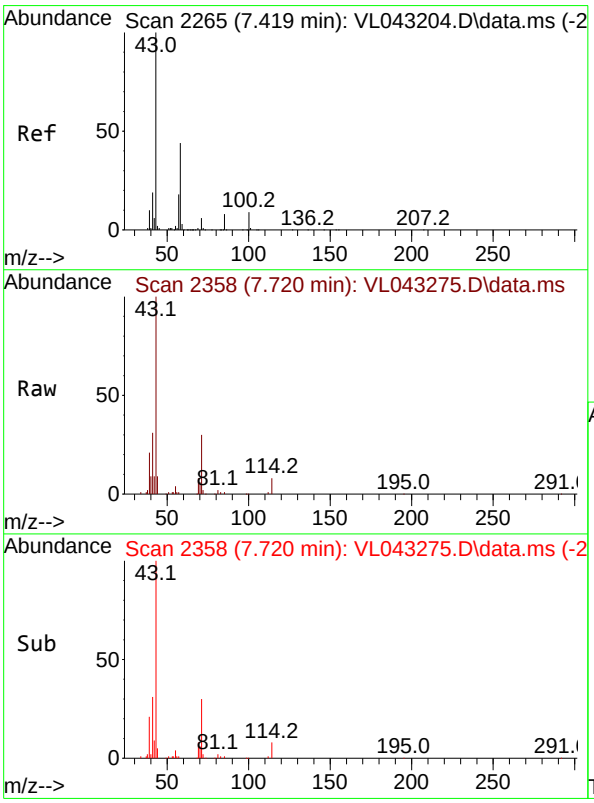
#50
4-Methyl-2-Pentanone
Concen: 0.002 ppbv
RT: 5.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 43 Resp: 45

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#

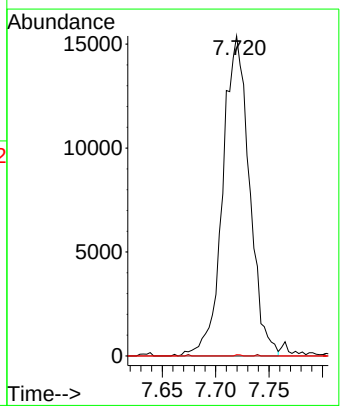


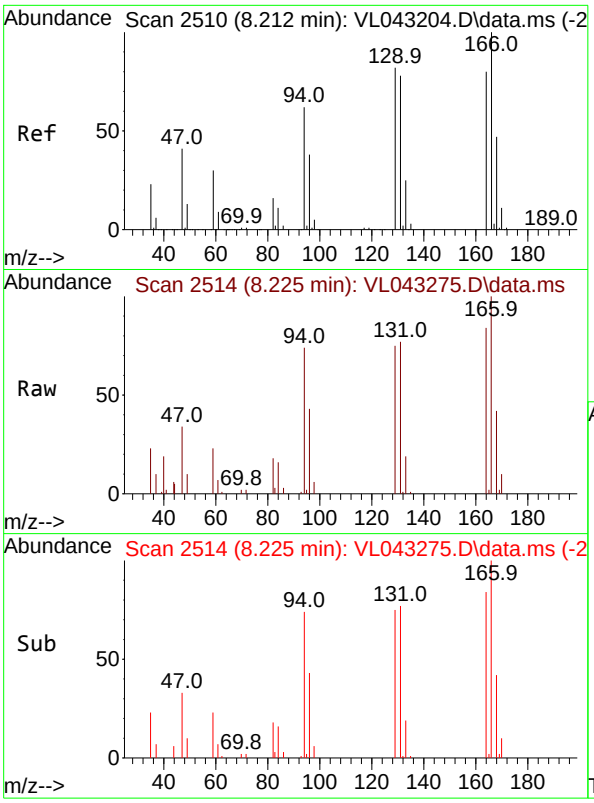


#51
2-Hexanone
Concen: 1.329 ppbv
RT: 7.720 min Scan# 2358
Delta R.T. 0.301 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 43 Resp: 26794

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



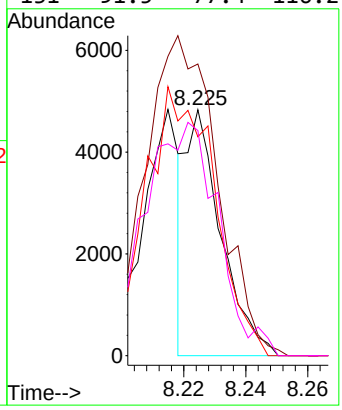


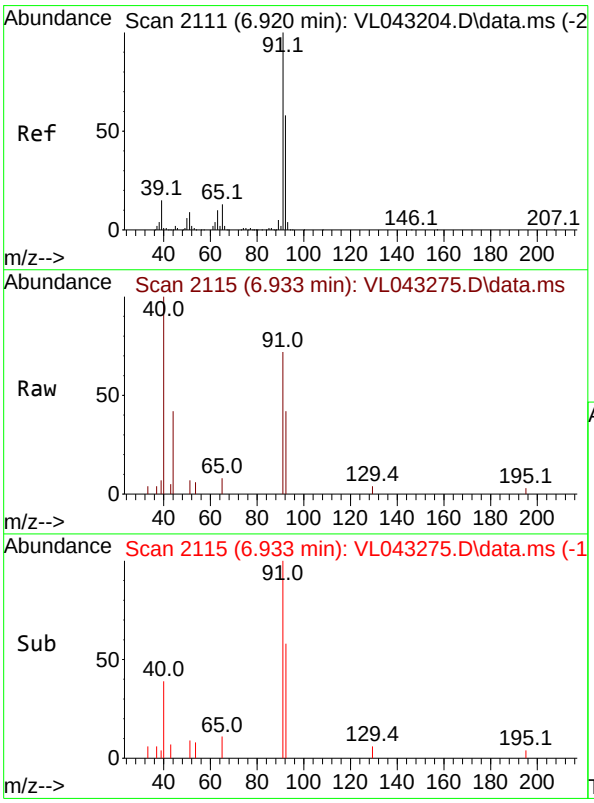
#52
Tetrachloroethene
Concen: 0.407 ppbv
RT: 8.225 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:164 Resp: 3788

Ion	Ratio	Lower	Upper
164	100		
166	116.2	99.4	149.2
129	89.0	81.8	122.8
131	91.5	77.4	116.2

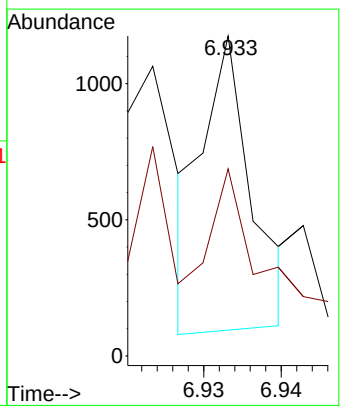


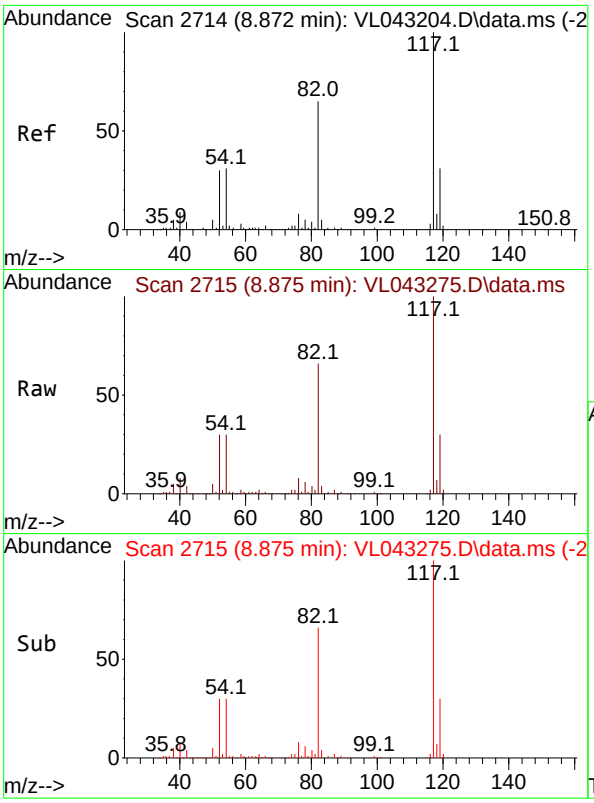


#53
Toluene
Concen: 0.016 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.013 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 91 Resp: 473

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.0#



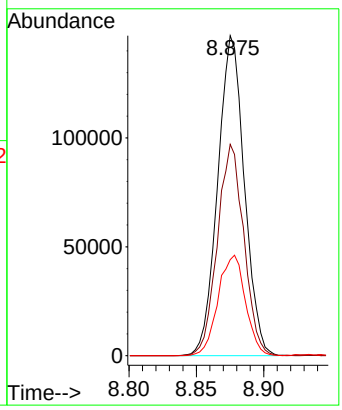


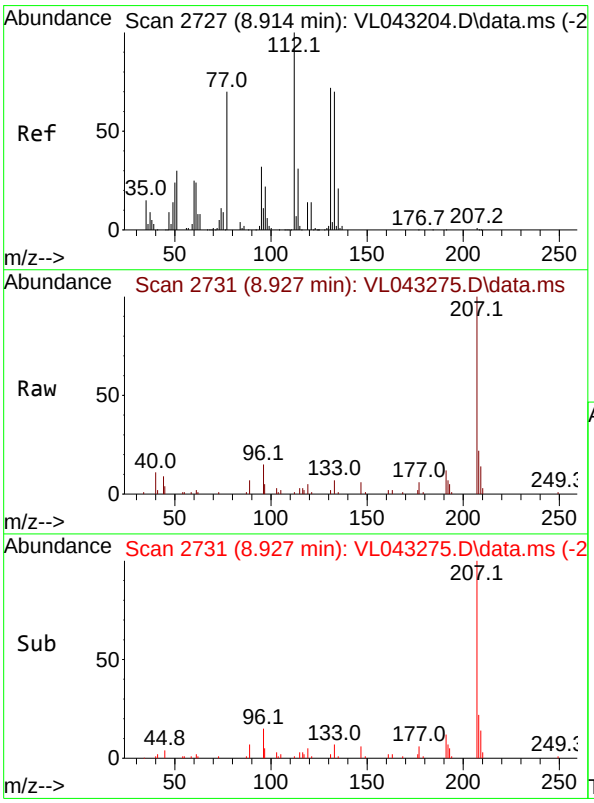
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:117 Resp: 202177

Ion	Ratio	Lower	Upper
117	100		
82	65.5	56.1	84.1
119	32.3	25.0	37.6

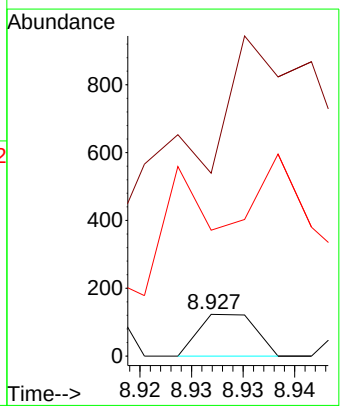


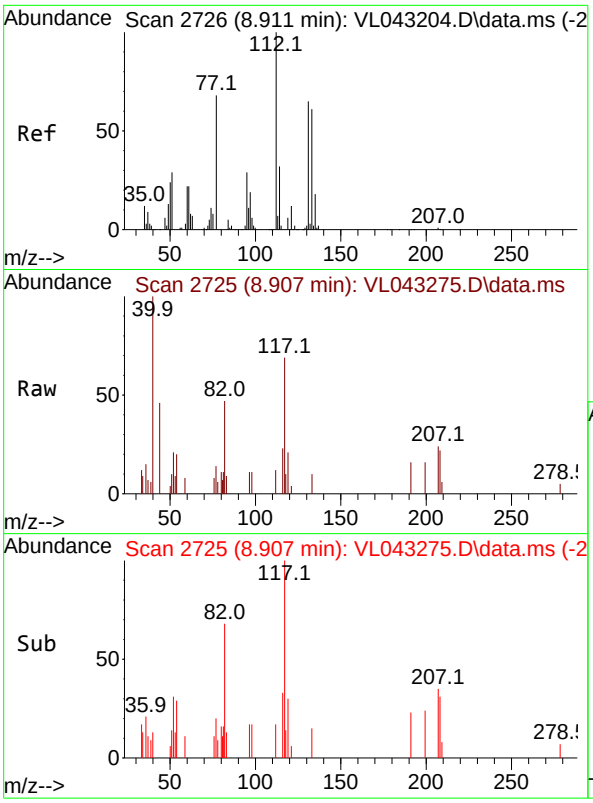


#56
1,1,1,2-Tetrachloroethane
Concen: 0.003 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.013 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:131 Resp: 47

Ion	Ratio	Lower	Upper
131	100		
133	3223.4	77.4	116.2#
119	138978.7	49.1	73.7#



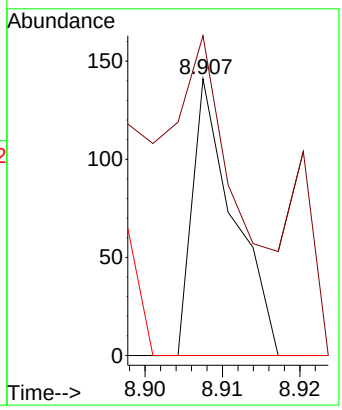


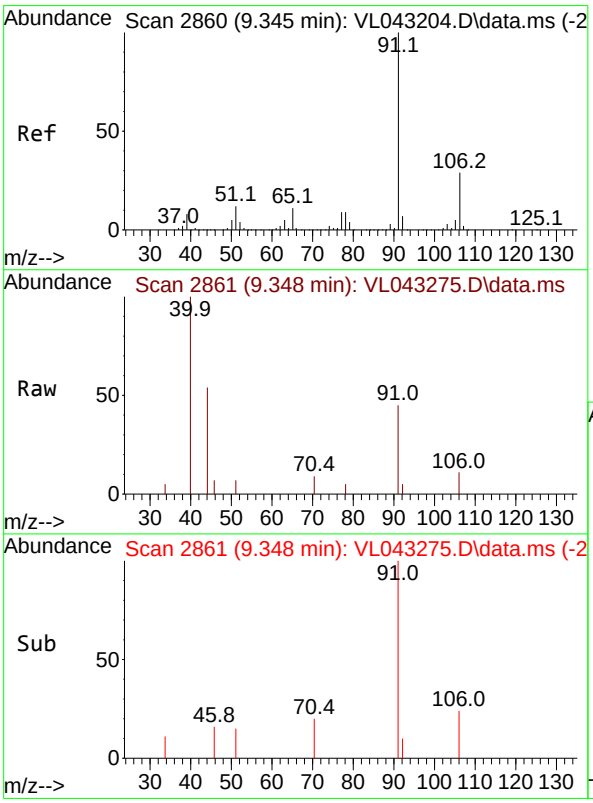
#57
Chlorobenzene
Concen: 0.003 ppbv
RT: 8.907 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:112 Resp: 52

Ion	Ratio	Lower	Upper
112	100		
77	78.0	55.5	83.3
114	0.0	29.1	35.5#

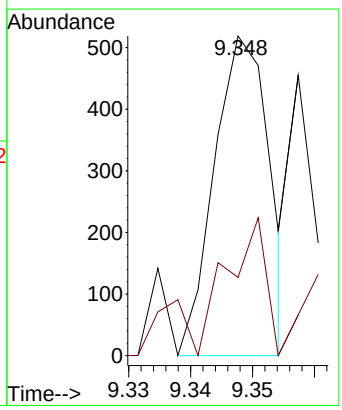


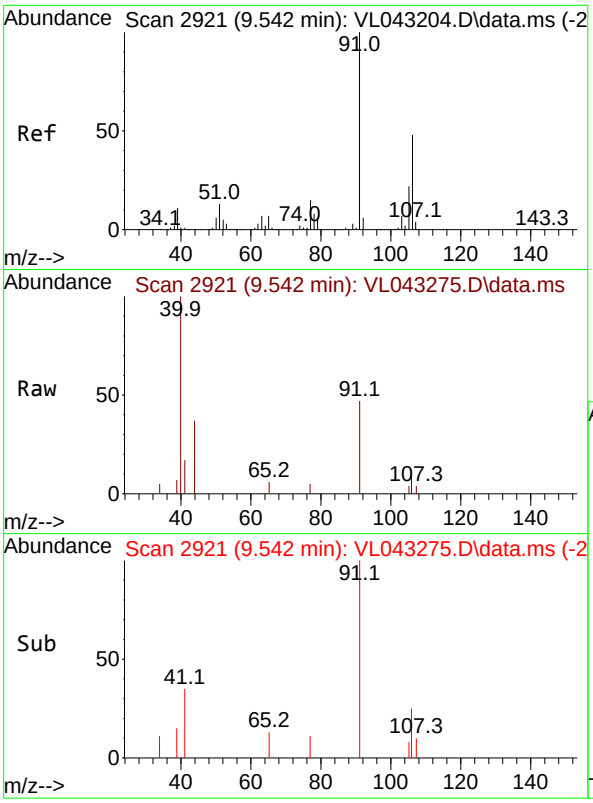


#58
Ethyl Benzene
Concen: 0.008 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 91 Resp: 322

Ion	Ratio	Lower	Upper
91	100		
106	24.5	22.8	34.2



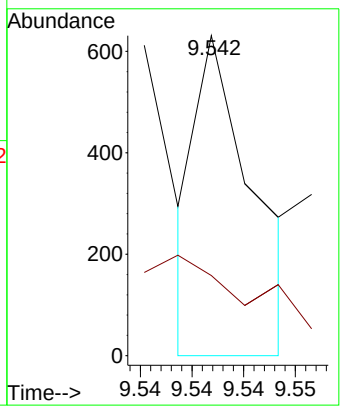


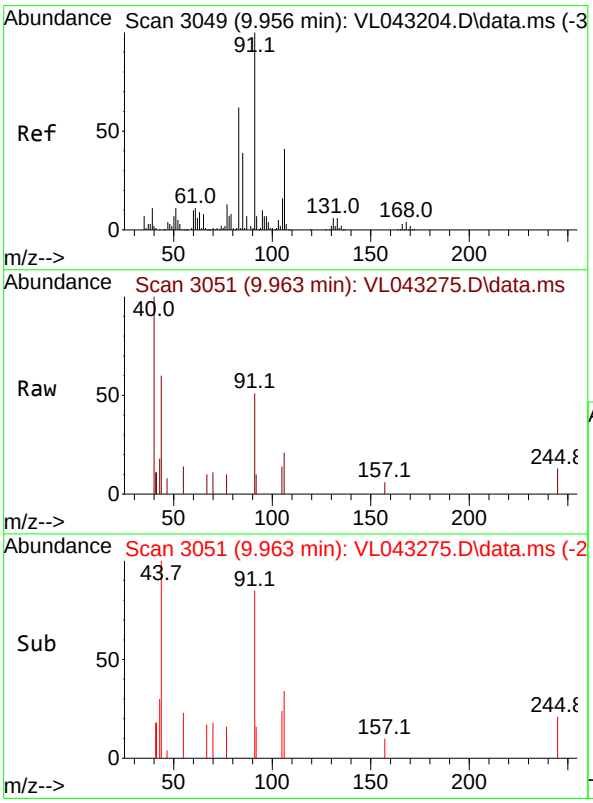
#59
m/p-Xylene
Concen: 0.008 ppbv
RT: 9.542 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 91 Resp: 241

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

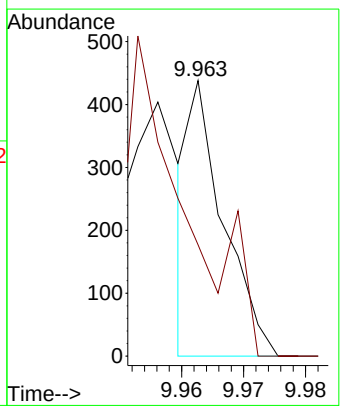


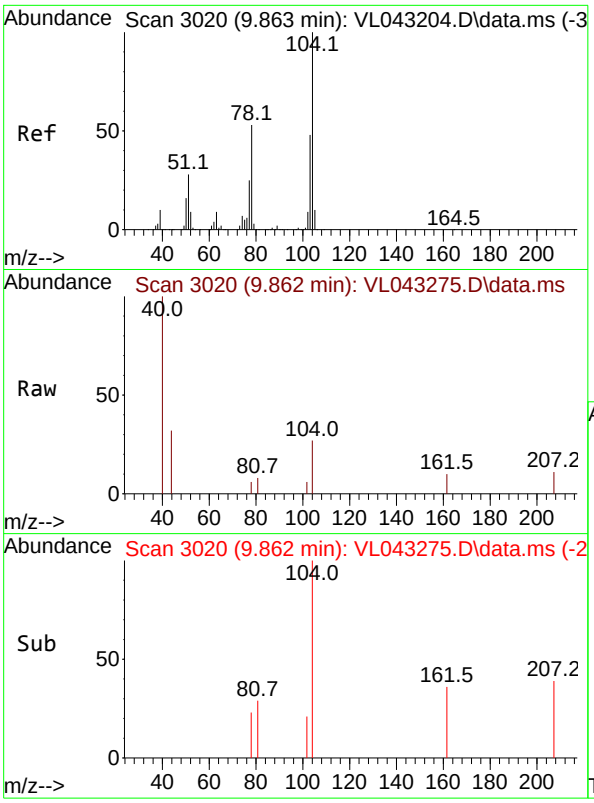


#60
o-Xylene
Concen: 0.005 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 91 Resp: 169

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.9	62.8#



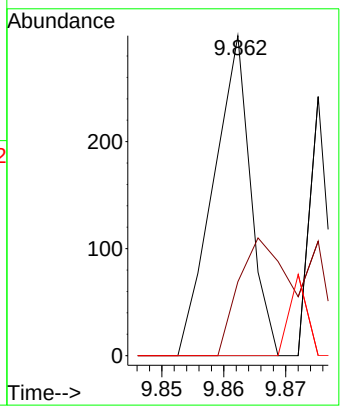


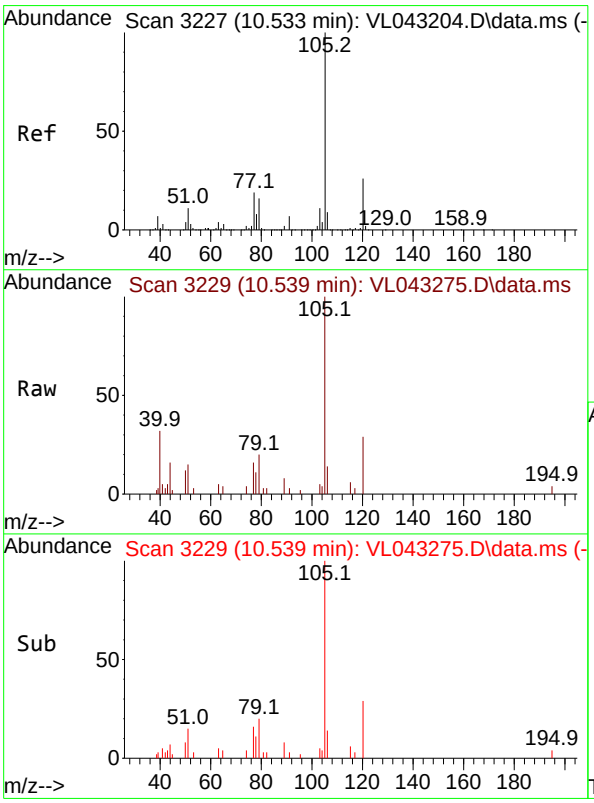
#61
Styrene
Concen: 0.009 ppbv
RT: 9.862 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:104 Resp: 125

Ion	Ratio	Lower	Upper
104	100		
78	66.4	42.1	63.1#
103	12.0	37.2	55.8#

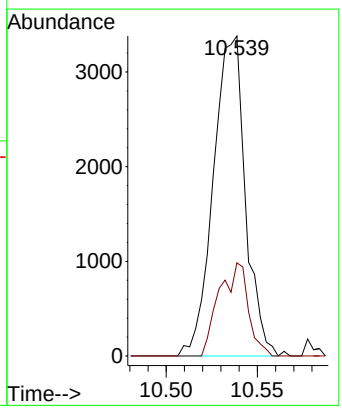


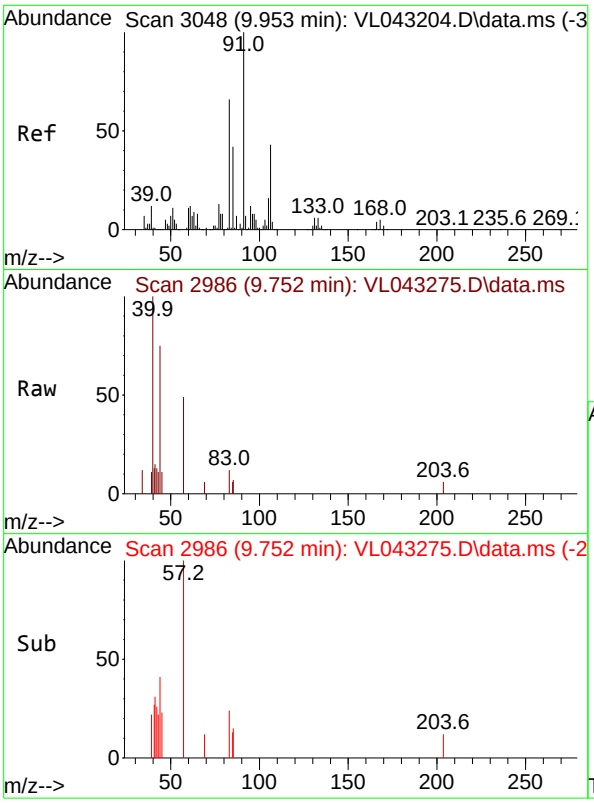


#62
Isopropylbenzene
Concen: 0.074 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:105 Resp: 4130

Ion	Ratio	Lower	Upper
105	100		
120	26.5	19.8	29.8



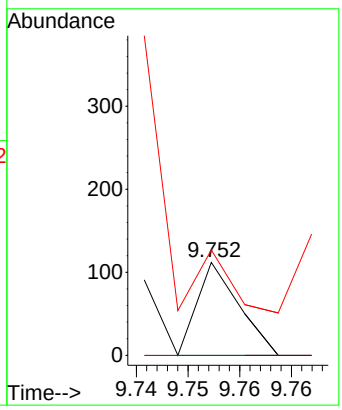


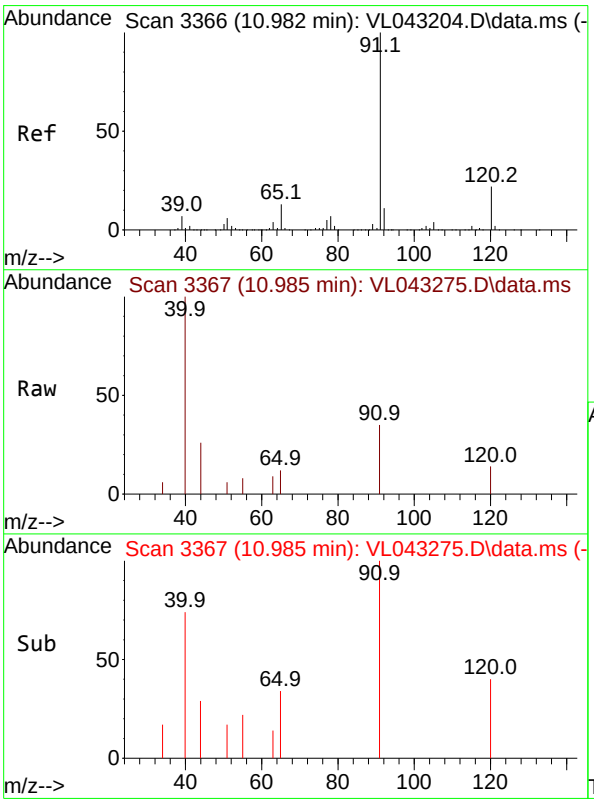
#63
1,1,2,2-Tetrachloroethane
Concen: 0.002 ppbv
RT: 9.752 min Scan# 2
Delta R.T. -0.201 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 83 Resp: 31

Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.3#
85	0.0	31.9	95.9#

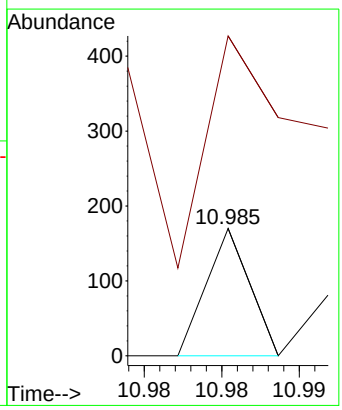


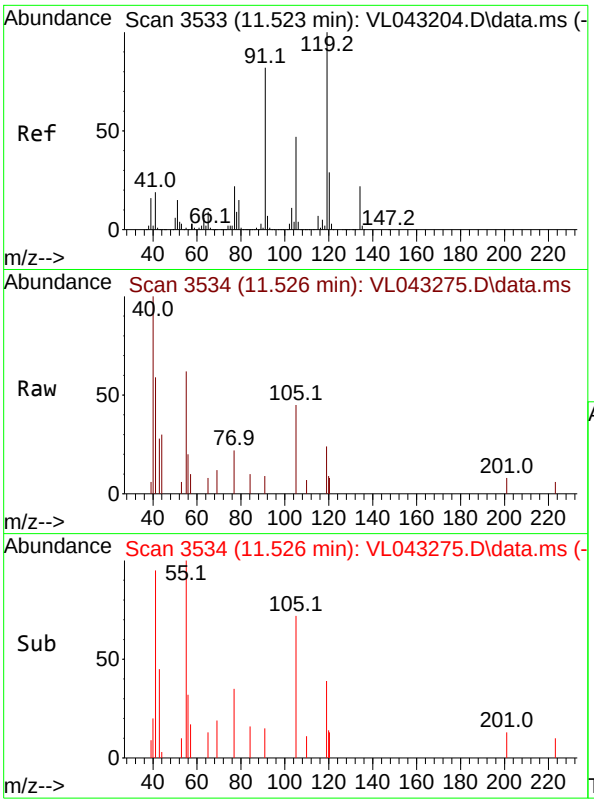


#64
n-propylbenzene
Concen: 0.002 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:120 Resp: 33

Ion	Ratio	Lower	Upper
120	100		
91	1109.1	377.1	565.7#



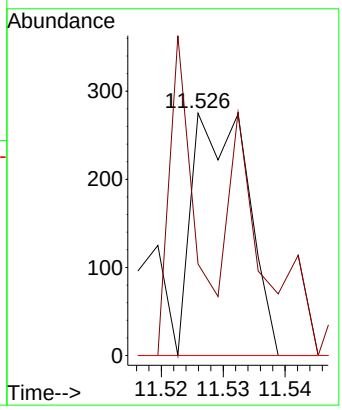


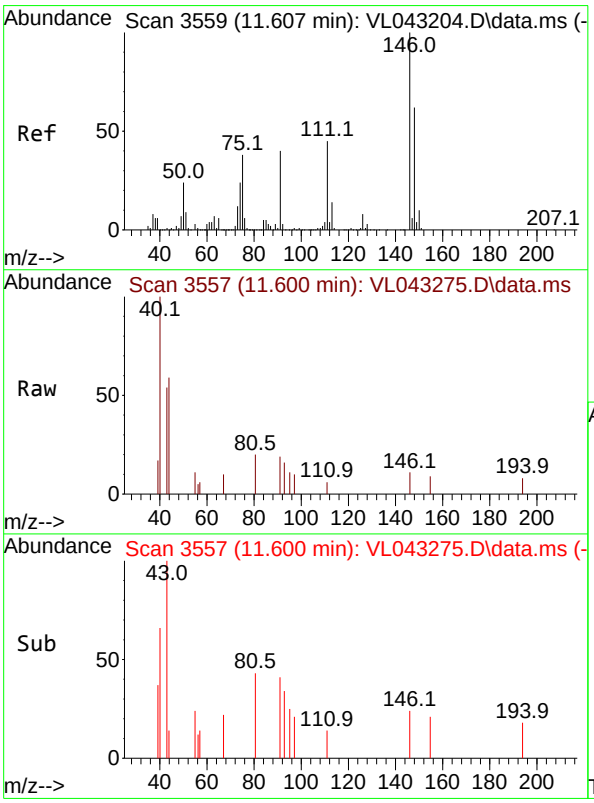
#65
tert-Butylbenzene
Concen: 0.003 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:119 Resp: 171

Ion	Ratio	Lower	Upper
119	100		
91	131.6	65.3	97.9#
134	0.0	17.0	25.4#

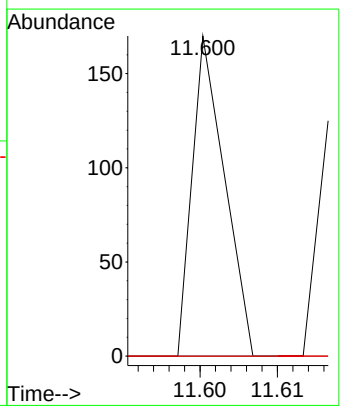


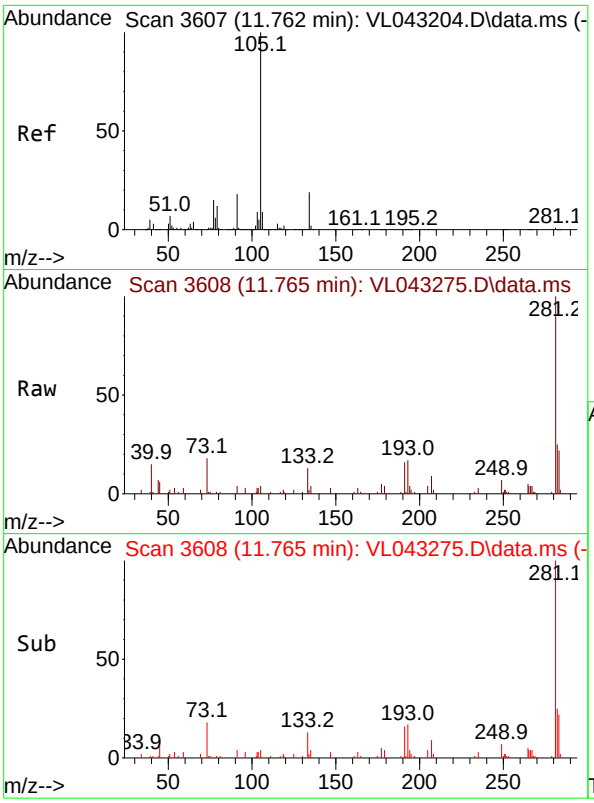


#66
Benzyl Chloride
Concen: 0.010 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.007 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 91 Resp: 49

Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.4	21.6#
128	0.0	4.6	6.8#



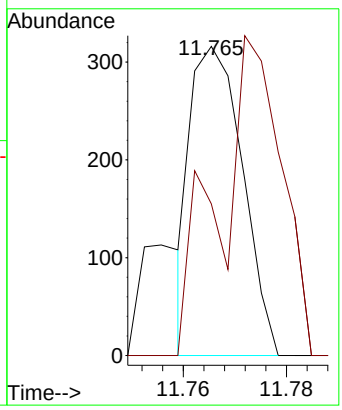


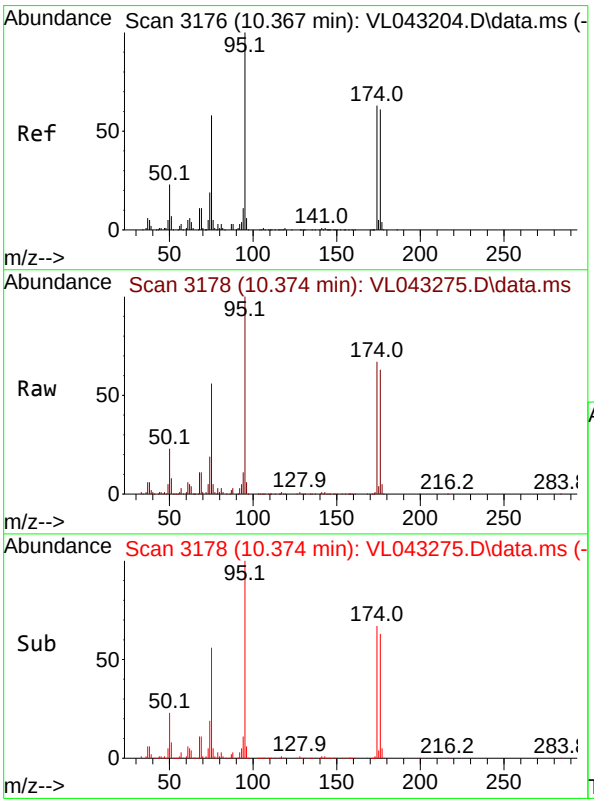
#67
sec-Butylbenzene
Concen: 0.003 ppbv
RT: 11.765 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:105 Resp: 221

Ion	Ratio	Lower	Upper
105	100		
134	124.0	15.0	22.6#

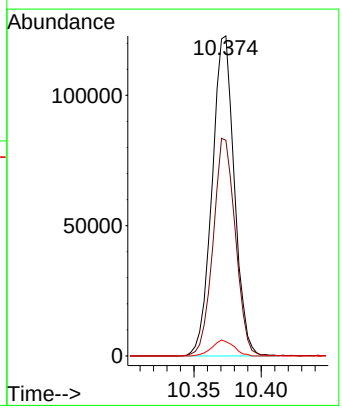


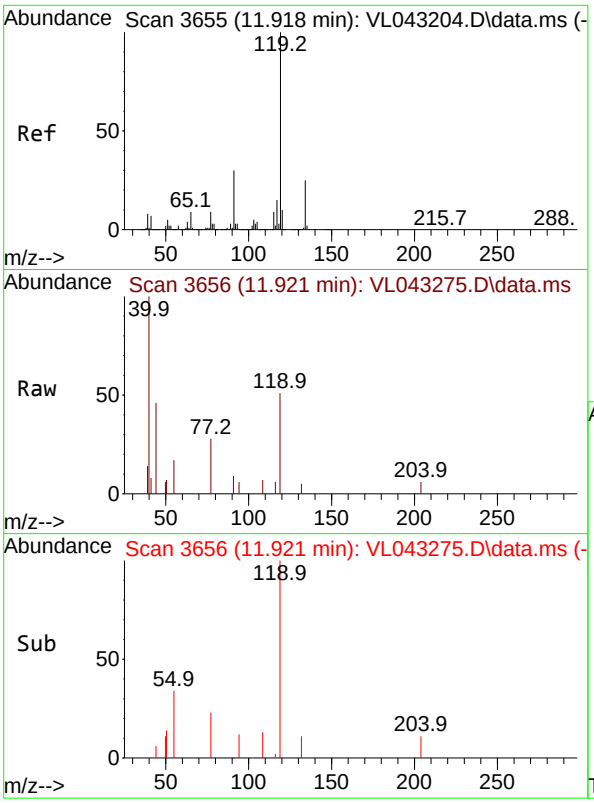


#68
1-Bromo-4-Fluorobenzene
Concen: 9.514 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 95 Resp: 140998

Ion	Ratio	Lower	Upper
95	100		
174	68.3	50.2	75.2
175	4.9	4.1	6.1



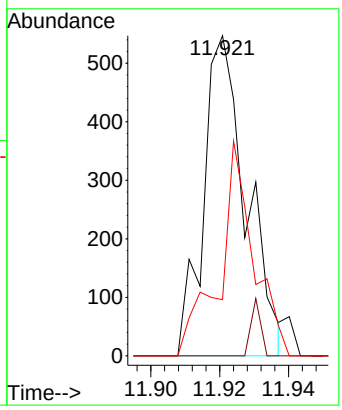


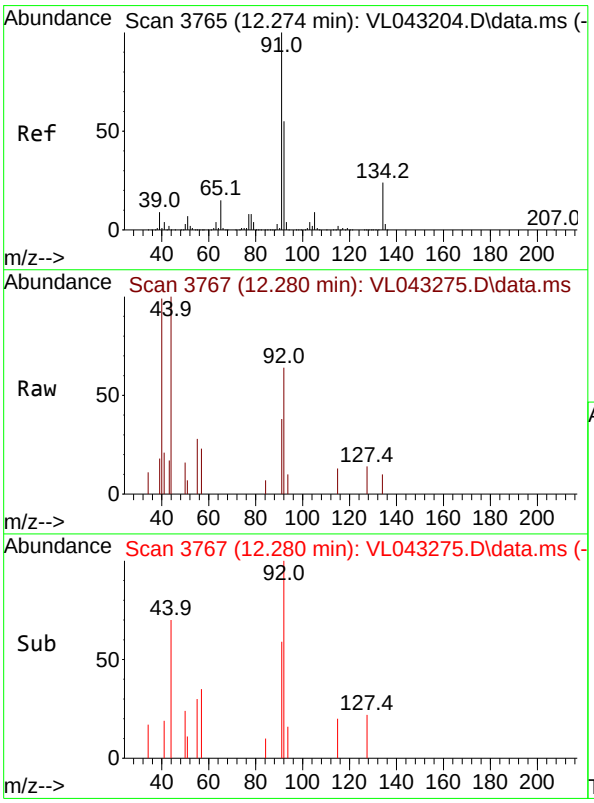
#69
p-Isopropyltoluene
Concen: 0.008 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:119 Resp: 471

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.2	30.2#
91	53.5	23.8	35.8#

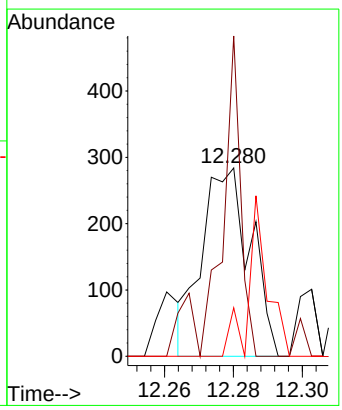


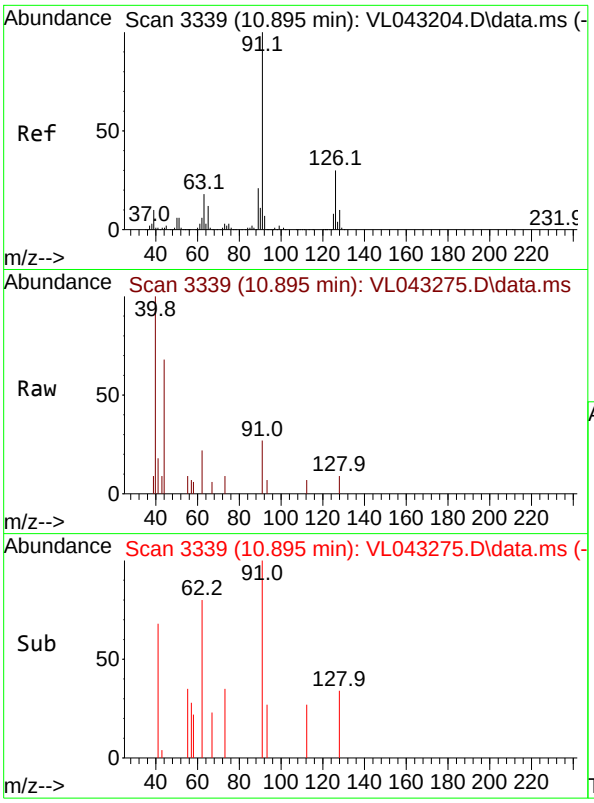


#70
n-Butylbenzene
Concen: 0.005 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion: 91 Resp: 279

Ion	Ratio	Lower	Upper
91	100		
92	75.6	43.5	65.3#
134	33.3	19.0	28.6#



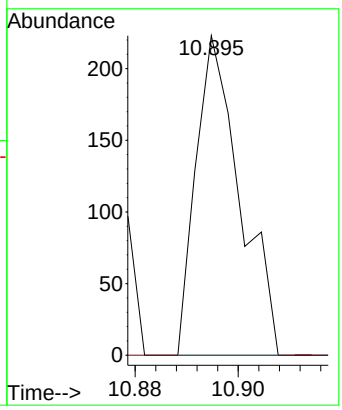


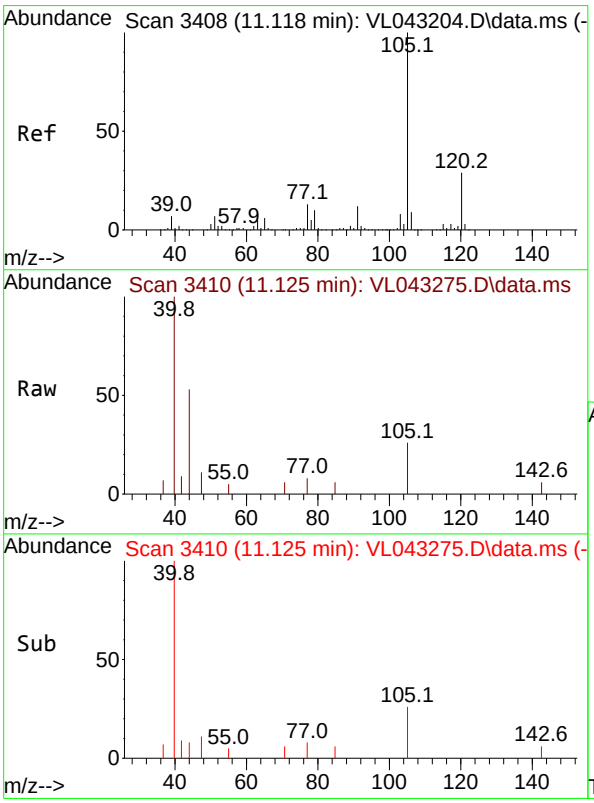
#71
2-Chlorotoluene
Concen: 0.003 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion: 91 Resp: 133

Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.7	46.7#

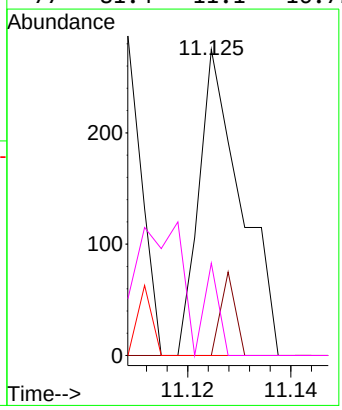


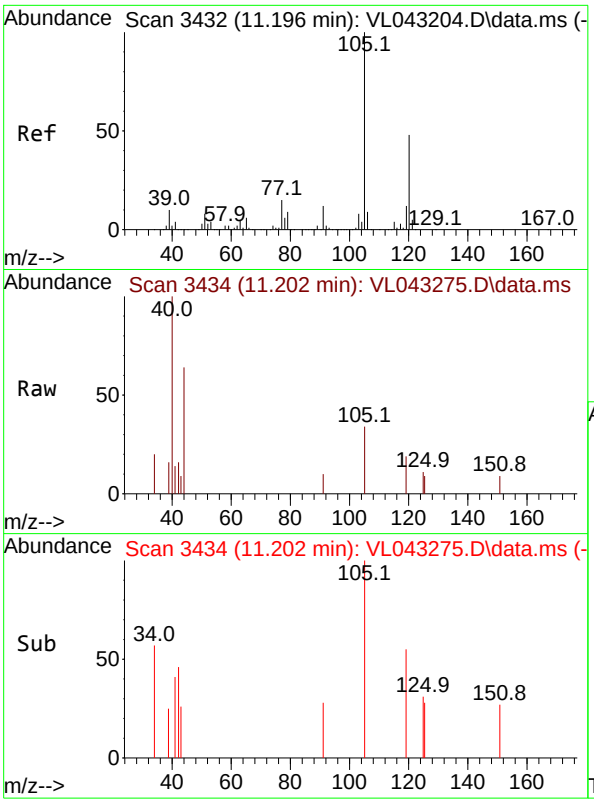


#72
4-Ethyltoluene
Concen: 0.004 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:105 Resp: 156

Ion	Ratio	Lower	Upper
105	100		
120	9.6	23.8	35.8#
91	0.0	10.3	15.5#
77	81.4	11.1	16.7#



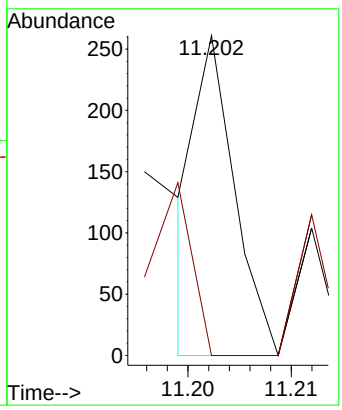


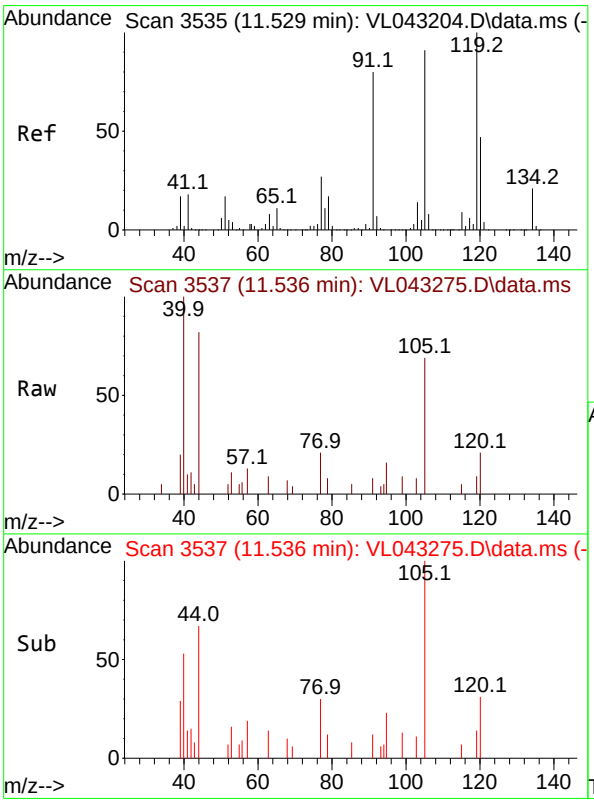
#73
1,3,5-Trimethylbenzene
Concen: 0.002 ppbv
RT: 11.202 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:105 Resp: 67

Ion	Ratio	Lower	Upper
105	100		
120	0.0	38.6	57.8#

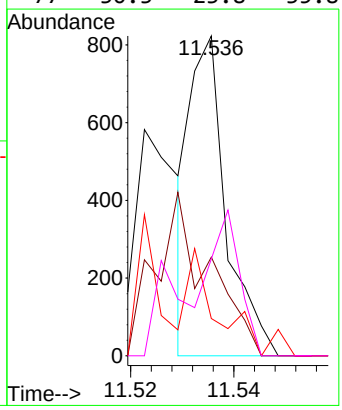


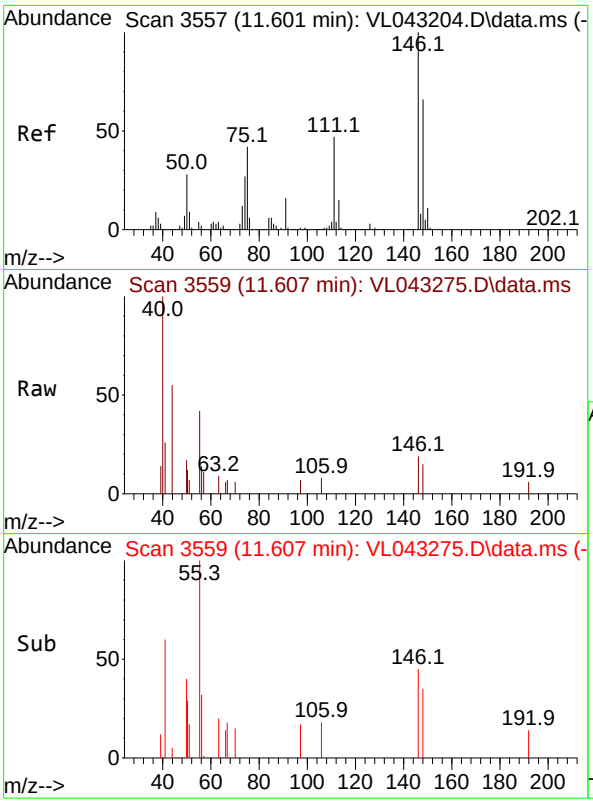


#74
1,2,4-Trimethylbenzene
Concen: 0.011 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:105 Resp: 399

Ion	Ratio	Lower	Upper
105	100		
120	30.9	41.7	62.5#
91	3.5	70.0	105.0#
77	30.3	23.8	35.8



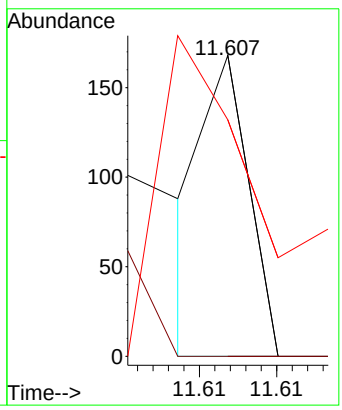


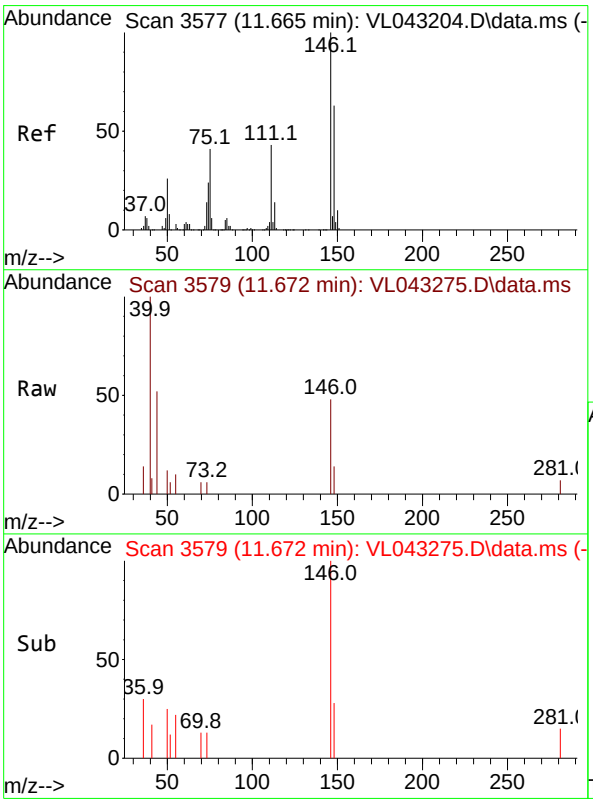
#75
1,3-Dichlorobenzene
Concen: 0.002 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:146 Resp: 33

Ion	Ratio	Lower	Upper
146	100		
111	169.7	23.4	70.3#
148	303.0	31.6	95.0#

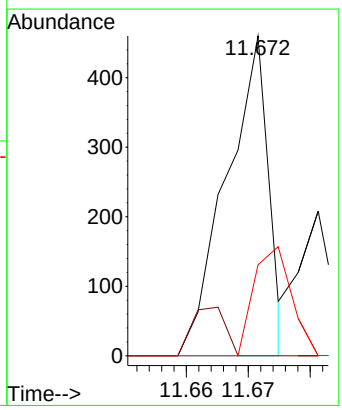


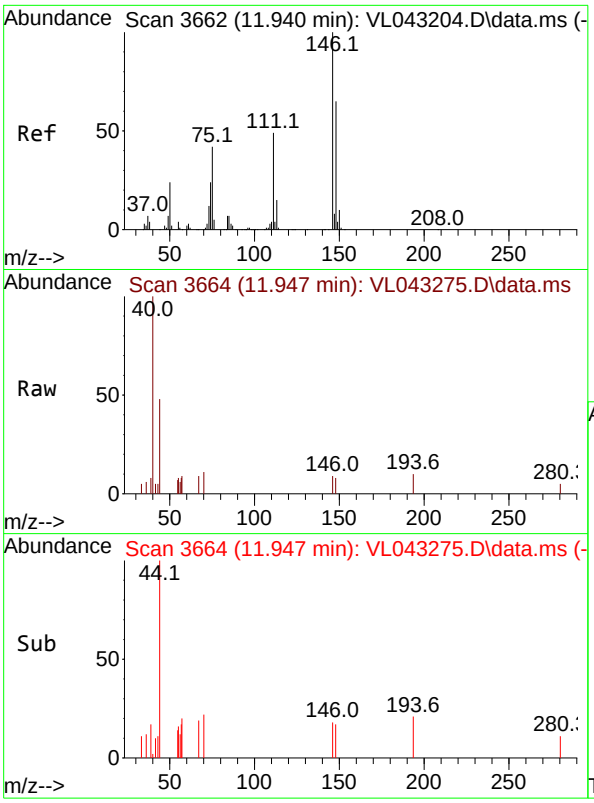


#76
1,4-Dichlorobenzene
Concen: 0.011 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:146 Resp: 219

Ion	Ratio	Lower	Upper
146	100		
111	11.9	22.8	68.3#
148	30.1	31.8	95.4#



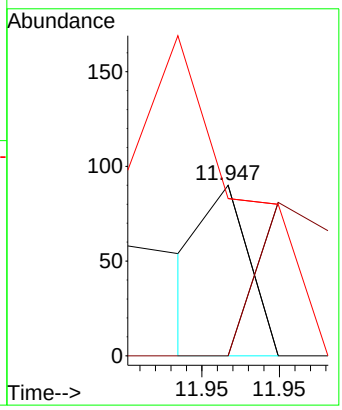


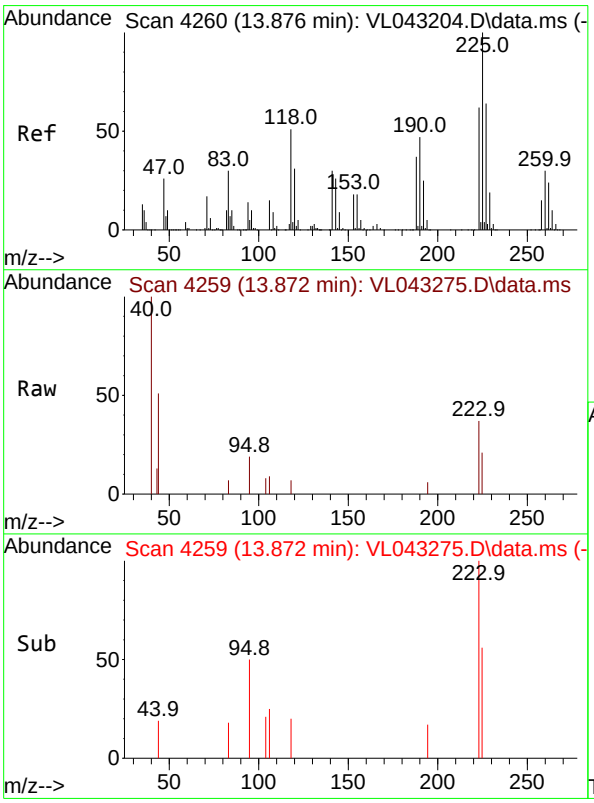
#77
1,2-Dichlorobenzene
Concen: 0.001 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:146 Resp: 17

Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.3	73.0#
148	494.1	31.6	94.7#

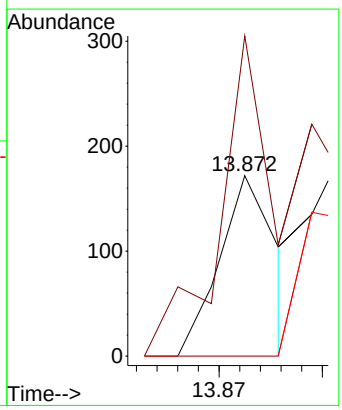


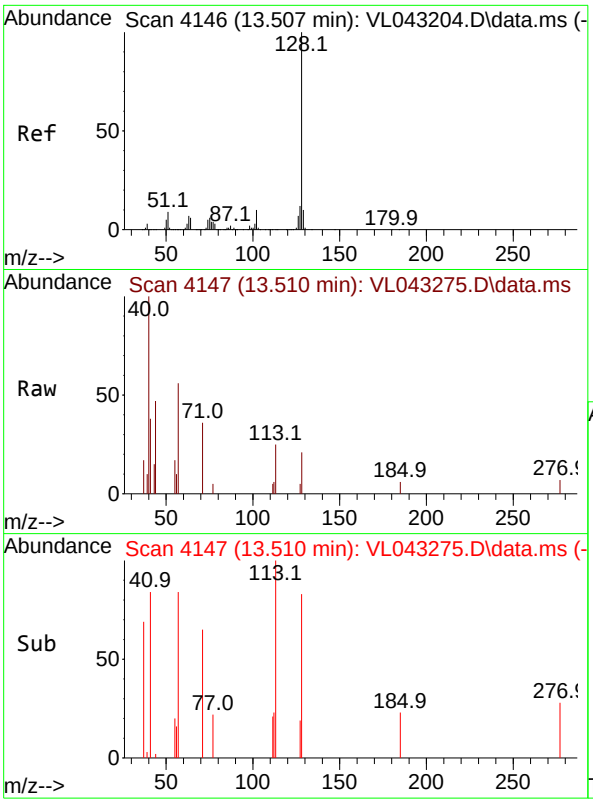


#78
Hexachloro-1,3-Butadiene
Concen: 0.004 ppbv
RT: 13.872 min Scan# 4259
Delta R.T. -0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:225 Resp: 66

Ion	Ratio	Lower	Upper
225	100		
223	387.9	50.2	75.4#
227	113.6	51.1	76.7#



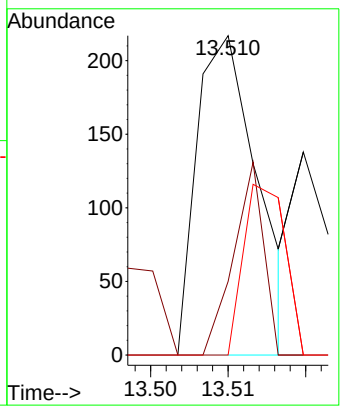


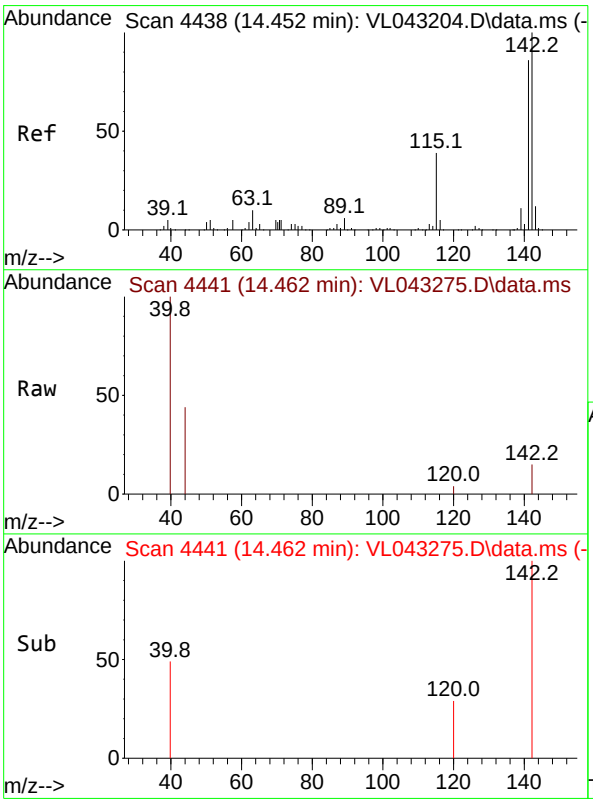
#79
Naphthalene
Concen: 0.004 ppbv
RT: 13.510 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Instrument :
MSVOA_L
ClientSampleId :
13-SG-1DL

Tgt Ion:128 Resp: 118

Ion	Ratio	Lower	Upper
128	100		
127	23.0	9.9	14.9#
129	0.0	8.4	12.6#





#80
Naphthalene,2-methyl-
Concen: 0.008 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.009 min
Lab File: VL043275.D
Acq: 21 Nov 2025 07:53

Tgt Ion:142 Resp: 63

Ion	Ratio	Lower	Upper
142	100		
141	0.0	67.1	100.7#
115	31.7	31.9	47.9#