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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : WONDER GROUP INC. EMERGENCY IH ASSESS - 25-0580

MATRIX NEW WORLD ENGINEERING

26 Columbia Turnpike

Florham Park, NJ - 07932

Phone No: 973-240-1800

ORDER ID : Q2750

ATTENTION : Kali Primiani

Laboratory Certification ID # 20012

Table Of Contents for Q2750

1) VOLATILES DATA 2

2) Signature Page 4

3) Shipping Document 5

- 3.1) Chain Of Custody 6
- 3.2) Lab Certificate 22
- 3.3) Internal COC 16
- 3.4) Air sample Pressure And Dilution Log Book 17
- 3.6) Storage Location 18

4) Case Narrative 23

5) Qualifier Page 43

6) QA Checklist 44

7) Chronicle 45

8) Hit Summary 47

9) Air Conversion Table 56

- 9.1) MDL 94

10) QC Data Summary For TO-15 99

- 10.1) Deuterated Monitoring Compound Summary 100
- 10.2) LCS/LCSD Summary 101
- 10.3) Duplicate Sample Summary 103
- 10.4) Method Blank Summary 107
- 10.5) GS/MS Tune Summary 108
- 10.6) Internal Standard Area and RT Summary 111

11) Sample Data 113

- 11.1) WONDER IA-2 114
- 11.2) WONDER IA-2DL 139
- 11.3) WONDER IA-3 150
- 11.4) WONDER IA-3DL 178
- 11.5) WONDER IA-4 188
- 11.6) WONDER IA-4DL 215
- 11.7) WONDER IA-5 225
- 11.8) WONDER IA-5DL 252
- 11.9) WONDER IA-6 263
- 11.10) WONDER IA-6DL 291
- 11.11) WONDER IA-7 301
- 11.12) WONDER IA-7DL 326

11.13) WONDER IA-8 336
11.14) WONDER IA-8DL 363
11.15) WONDER IA-9 373
11.16) WONDER IA-9DL 399
11.17) WONDER IA-10 409
11.18) WONDER IA-11 431
11.19) WONDER IA-11DL 452
12) Calibration Data Summary 462
12.1) Initial Calibration Data 3
12.2) 12.1.1) VL072325 463
12.3) Continued Calibration Data 750
12.3.1) VL042796.D 750
13) QC Sample Data 800
13.1) Tune Raw Data 801
13.2) Method Blank Data 803
13.3) LCS Data 814
13.4) DUP Data 861
14) Manual Integration 901
15) Analytical Runlogs 913
16) Standard Prep Logs 919
17) Canister Data 931
18) Not Reviewed Data 1016

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

Cover Page

Order ID : Q2750

Project ID : Wonder Group Inc. Emergency IH Assess - 25-0580

Client : Matrix New World Engineering

Lab Sample Number	Client Sample Number
Q2750-01	WONDER IA-2
Q2750-02	WONDER IA-3
Q2750-03	WONDER IA-4
Q2750-04	WONDER IA-5
Q2750-05	WONDER IA-6
Q2750-06	WONDER IA-7
Q2750-07	WONDER IA-8
Q2750-08	WONDER IA-9
Q2750-09	WONDER IA-10
Q2750-10	WONDER IA-11

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: 8/7/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q 2750

Client Contact Information	Bottle Order ID : **B2507054**	Courier :	____ of ____ COCs
Client ID : **MATR02** Project ID :	**Price List 2021**	Sampler Name(s) : A Kuhn	Analysis / Matrix
Customer Name : **Matrix New World Engineering**	Project Manager : **Kali primiani**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **26 Columbia Turnpike**	Phone Number : **973-240-1800**		
	Fax Number : **973-248-1818**		
	Site Details: Wonder	Batch Certified	
City : **Florham Park**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **07932**	Standard : **10 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): 1 **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		
Wonder IA-2	7/31 - 8/1	1242	1042	-29	-5	38	38	-30	-4.7	10172	10280	6 L	4.16	VL042702.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	38			
Stop	38			

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.98			
Stop	30.15			

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): Crawford, NJ

Quick Connector required : NO

Canisters Shiped by:		Date/Time: 7/31/25	Canisters Received by:	Date/Time: 7/31/25 0915	**B2507054 - 4**
Samples Relinquished by:		Date/Time:	Received by:	Date/Time: 8/1/25 1220	
Relinquished by:		Date/Time:	Received by:	Date/Time:	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q2750

Client Contact Information	Bottle Order ID : **B2507054**	Courier :	____ of ____ COCs
Client ID : **MATR02** Project ID :	**Price List 2021**	Sampler Name(s) : A Kuhn	Analysis / Matrix
Customer Name : **Matrix New World Engineering**	Project Manager : **Kali primiani**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **26 Columbia Turnpike**	Phone Number : **973-240-1800**		
	Fax Number : **973-248-1818**	Batch Certified	
	Site Details: Wonder		
City : **Florham Park**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **07932**	Standard : **10 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): 7 **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		
Wonder IA-3	7/31 - 8/1	1245	1043	-30	-9.5	38	38	-30	-6.7	10206	10279	6 L	4.16	VL042598.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	38			
Stop	38			

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.98			
Stop	30.15			

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): Crawford, NJ

Quick Connector required : No

Canisters Shiped by:	Date/Time: 07/31/25	Canisters Received by:	Date/Time: 7/31/25 0915	**B2507054 - 3**
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 8/1/25 1220	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q 2750

Client Contact Information		Bottle Order ID : **B2507054**		Courier :	____ of ____ COCs
Client ID : **MATR02**	Project ID : **Price List 2021**			Sampler Name(s) : A Kuhn	Analysis / Matrix
Customer Name : **Matrix New World Engineering**		Project Manager : **Kali primiani**		AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **26 Columbia Turnpike**		Phone Number : **973-240-1800**			
		Fax Number : **973-248-1818**			
		Site Details: Wonder		Batch Certified	
City : **Florham Park**					
State : **NJ**		Analysis Turnaround Time			
Zip Code : **07932**		Standard : **10 business days** **OR**		Data Package Type :	
Country :		Rush (Specify): 1 **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		
Wonder IA-4	7/31 -8/1	1248	1046	-30	-7	38	36	-30	-6.7	10207	10601	6 L	4.16	VL042702.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	38			
Stop	36			

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.95			
Stop	30.15			

** 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): Cranford, NJ

Quick Connector required : NO

Canisters Shiped by:		Date/Time: 07/31/25	Canisters Received by:	Date/Time: 7/31/25 0915	B2507054 - 15
Samples Relinquished by:		Date/Time:	Received by:	Date/Time: 8/1/25 1220	
Relinquished by:		Date/Time:	Received by:	Date/Time:	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q2750

Client Contact Information	Bottle Order ID : **B2507054**	Courier :	____ of ____ COCs
Client ID : **MATR02** Project ID :	**Price List 2021**	Sampler Name(s) : A Kuhn	Analysis / Matrix
Customer Name : **Matrix New World Engineering**	Project Manager : **Kali primiani**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **26 Columbia Turnpike**	Phone Number : **973-240-1800**		
	Fax Number : **973-248-1818**	Individual Certified	
	Site Details: Wonder		
City : **Florham Park**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **07932**	Standard : **10 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): 1 **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		
Wonder TA-5	7/31 -8/1	1254	1047	-30	-5	38	36	-30	-4.3	10222	10606	6 L	4.16	VL042702.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	38			
Stop	36			

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

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.95			
Stop	30.15			

** 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): Cranford, NJ

Quick Connector required : No

Canisters Shiped by: Sean	Date/Time: 07/31/25	Canisters Received by:	Date/Time: 7/31/25 0915	**B2507054 - 16**
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 8/1/25 1220	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q2750

Client Contact Information	Bottle Order ID : **B2507054**	Courier :	____ of ____ COCs
Client ID : **MATR02** Project ID :	**Price List 2021**	Sampler Name(s) : A Kuha	Analysis / Matrix
Customer Name : **Matrix New World Engineering**	Project Manager : **Kali primiani**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **26 Columbia Turnpike**	Phone Number : **973-240-1800**		
	Fax Number : **973-248-1818**		
	Site Details: Wonder	Batch Certified	
City : **Florham Park**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **07932**	Standard : **10 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): 7 **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		
Wonder IA-6	7/31 - 8/1	1257	1057	-30	-10.5	34	36	-30	-6.3	10478	10492	6 L	4.16	VL042702.D	X				X		

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	34			
Stop	36			

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.95			
Stop	30.15			

** 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): Cranford, NJ

Quick Connector required : NO

Canisters Shiped by: Sean	Date/Time: 7/31/15	Canisters Received by:	Date/Time: 7/31/15 0915	**B2507054 - 11**
Samples Relinquished by:	Date/Time:	Received by: CA	Date/Time: 8/1/15 1220	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q 2750

Client Contact Information	Bottle Order ID : **B2507054**	Courier :	____ of ____ COCs
Client ID : **MATR02** Project ID :	**Price List 2021**	Sampler Name(s) : A Kuhn	Analysis / Matrix
Customer Name : **Matrix New World Engineering**	Project Manager : **Kali primiani**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **26 Columbia Turnpike**	Phone Number : **973-240-1800**		
	Fax Number : **973-248-1818**		
	Site Details: Wonder	Batch Certified	
City : **Florham Park**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **07932**	~~Standard~~ : **10 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): 7 **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		
Wonder IA-07	7/31 -8/1	1302	1050	-28	-6	38	38	-30	-5.1	10785	10321	6 L	4.16	VL042702.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	38			
Stop	38			

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.95			
Stop	30.15			

** 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): Crawford, NJ

Quick Connector required : NJ

Canisters Shiped by: Sam	Date/Time: 07/31/15	Canisters Received by: CP	Date/Time: 8/1/25 1220	**B2507054 - 7**
Samples Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q 2750

Client Contact Information	Bottle Order ID : **B2507054**	Courier :	____ of ____ COCs
Client ID : **MATR02** Project ID : **Price List 2021**		Sampler Name(s) : A Kuhn	Analysis / Matrix
Customer Name : **Matrix New World Engineering**	Project Manager : **Kali primiani**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **26 Columbia Turnpike**	Phone Number : **973-240-1800**		
	Fax Number : **973-248-1818**		
	Site Details: Wonder	Batch Certified	
City : **Florham Park**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **07932**	Standard : **10 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): 7 **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		
Wonder IA-8	7/31 -8/1	1105	1051	-29.5	-5.5	37	38	-30	-5.5	10771	10198	6 L	4.16	VL042702.D	X				X		

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	37			
Stop	38			

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.95			
Stop	30.15			

** 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): Crawford, NJ

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time: 07/31/25	Canisters Received by:	Date/Time: 7/31/25 0915	**B2507054 - 2**
Samples Relinquished by:	Date/Time:	Received by: CP	Date/Time: 8/1/25 1220	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q2750

Client Contact Information		Bottle Order ID : **B2507054**		Courier :	____ of ____ COCs
Client ID : **MATR02**	Project ID :	**Price List 2021**		Sampler Name(s) : A Kuhn	Analysis / Matrix
Customer Name : **Matrix New World Engineering**		Project Manager : **Kali primiani**		AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **26 Columbia Turnpike**		Phone Number : **973-240-1800**			
		Fax Number : **973-248-1818**			
		Site Details: Wonder			
City : **Florham Park**					
State : **NJ**		Analysis Turnaround Time		Batch Certified	
Zip Code : **07932**		Standard : **10 business days**	**OR**	Data Package Type :	
Country :		Rush (Specify): 1 **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		
Wonder IA-a	7/31 -8/1	1310	1052	-30	-9	38	38	-30	-5.9	1.0110	10315	6 L	4.16	VL042702.D	X	X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	38			
Stop	38			

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.95			
Stop	30.15			

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): Cranford, NJ

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 07/31/25	Canisters Received by:	Date/Time: 7/31/25 0915
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 8/1/25 1220
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2507054 - 6

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q2750

Client Contact Information	Bottle Order ID : **B2507054**	Courier :	____ of ____ COCs
Client ID : **MATR02** Project ID :	**Price List 2021**	Sampler Name(s) : A Kuhn	Analysis / Matrix
Customer Name : **Matrix New World Engineering**	Project Manager : **Kali primiani**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **26 Columbia Turnpike**	Phone Number : **973-240-1800**		
	Fax Number : **973-248-1818**	Batch Certified	
	Site Details: Wonder		
City : **Florham Park**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **07932**	Standard : **10 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): 1 **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		
Wonder IA-10	7/31 -8/1	1315	1056	-30	-7.5	79	68	-30	-6.7	10537	10590	6 L	4.16	VL042703.D	X	X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	79			
Stop	68			

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.95			
Stop	30.15			

** 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): Cranford, NJ

Quick Connector required : NO

Canisters Shiped by:		Date/Time: 07/31/25	Canisters Received by:	Date/Time: 7/31/25 0915	**B2507054 - 13**
Samples Relinquished by:		Date/Time:	Received by: CR	Date/Time: 8/1/25 1220	
Relinquished by:		Date/Time:	Received by:	Date/Time:	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q2750

Client Contact Information	Bottle Order ID : **B2507054**	Courier :	____ of ____ COCs
Client ID : **MATR02** Project ID :	**Price List 2021**	Sampler Name(s) : A Kahn	Analysis / Matrix
Customer Name : **Matrix New World Engineering**	Project Manager : **Kali primiani**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **26 Columbia Turnpike**	Phone Number : **973-240-1800**		
	Fax Number : **973-248-1818**	Batch Certified	
	Site Details: Wonder		
City : **Florham Park**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **07932**	Standard : **10 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): 1 **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		
Wonder IA-11	7/31 -8/1	1321	1101	-28	-9	58	60	-30	-9.6	[redacted] 10190	10153	6 L	4.16	VL042703.D	X				X		

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	58			
Stop	60			

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.95			
Stop	30.15			

** 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): Cranford, NJ

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time: 07/31/25	Canisters Received by:	Date/Time: 7/31/25 0915	**B2507054 - 1**	
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 8/1/25 1220		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

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.: Q2750
Date Broken: 8/1/2025
Military Time Seal Broken: 12:20:00
Case No.: Wonder Group Inc. Emerge
Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2750-01	WONDER IA-2		
Q2750-02	WONDER IA-3		
Q2750-03	WONDER IA-4		
Q2750-04	WONDER IA-5		
Q2750-05	WONDER IA-6		
Q2750-06	WONDER IA-7		
Q2750-07	WONDER IA-8		
Q2750-08	WONDER IA-9		
Q2750-09	WONDER IA-10		
Q2750-10	WONDER IA-11		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
8/1/25	13:40	Signature	Signature	
		Printed Name Castanoza Leric	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	

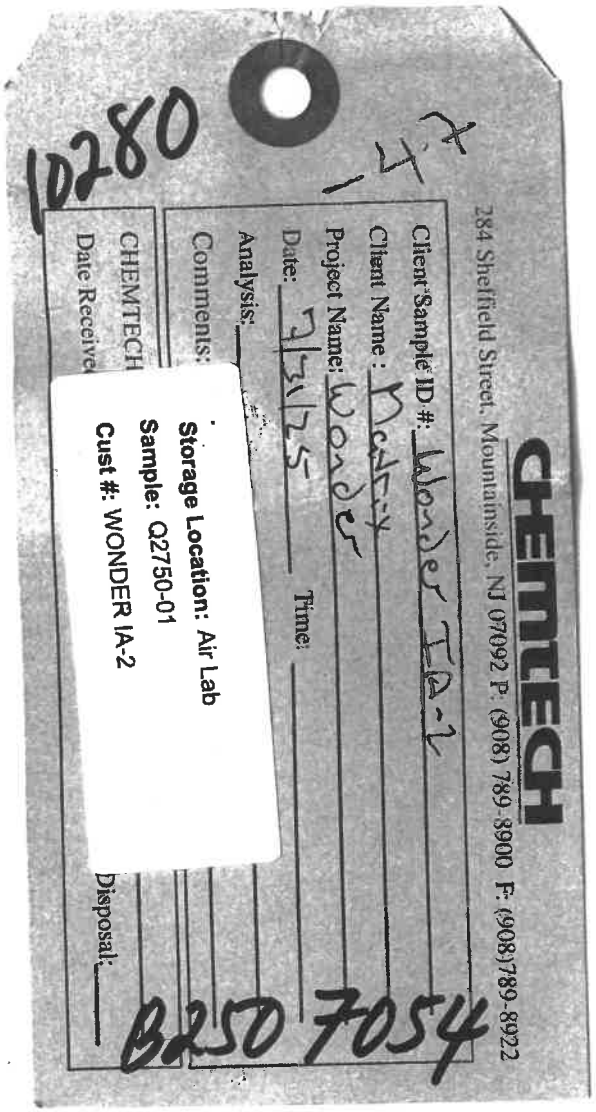
Distribution: White - Original (Sent With Report) *Yellow - Contractor Archive* *Pink - Sample Custodian - Interim Copy*

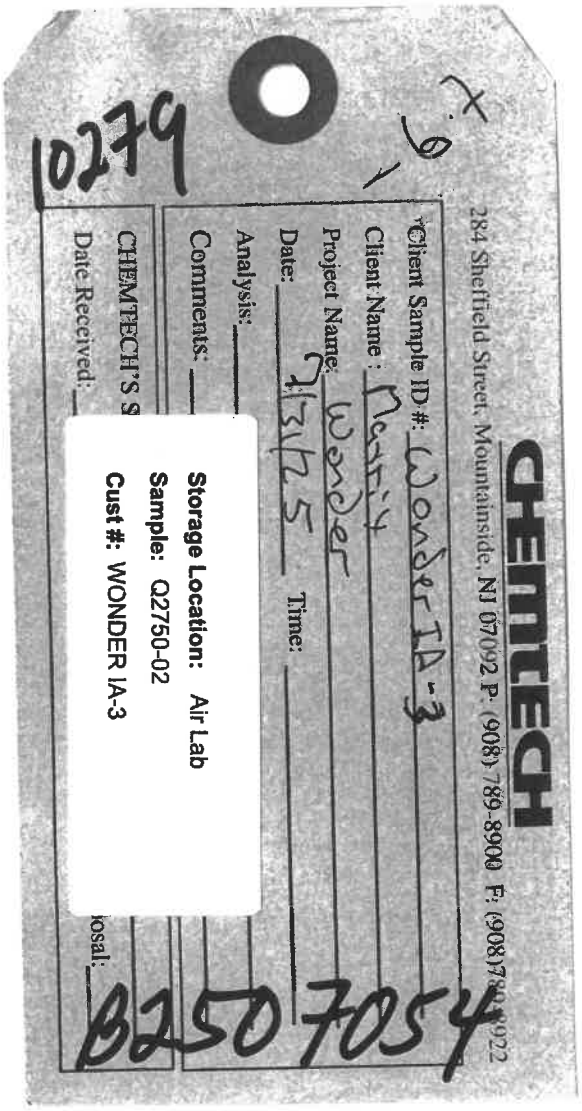
AIR SAMPLE PRESSURE & DILUTION LOGBOOK

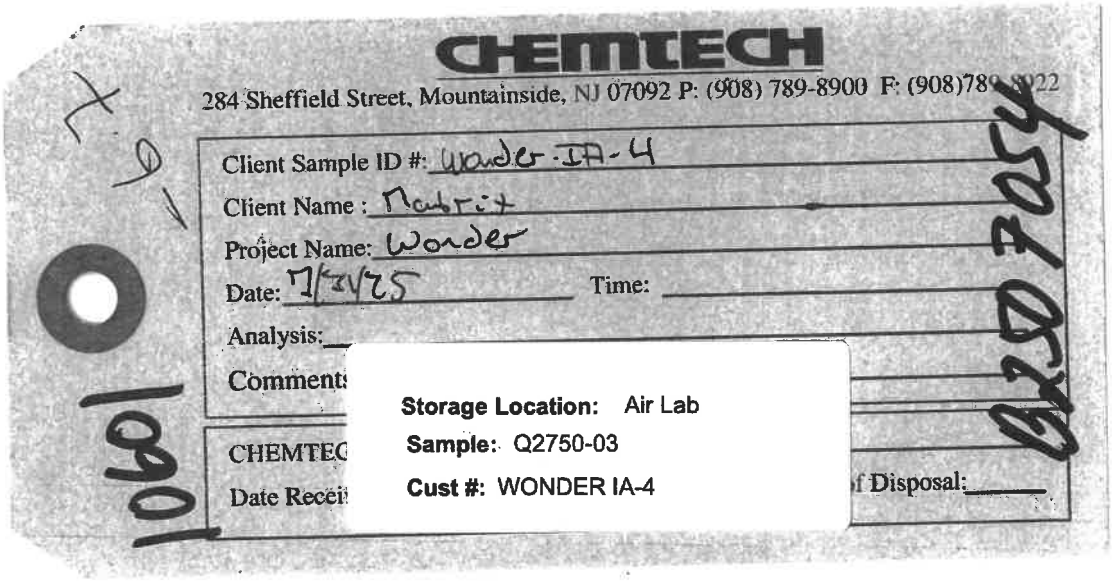
Analyst Signature: _____ Supervisor Signature: _____

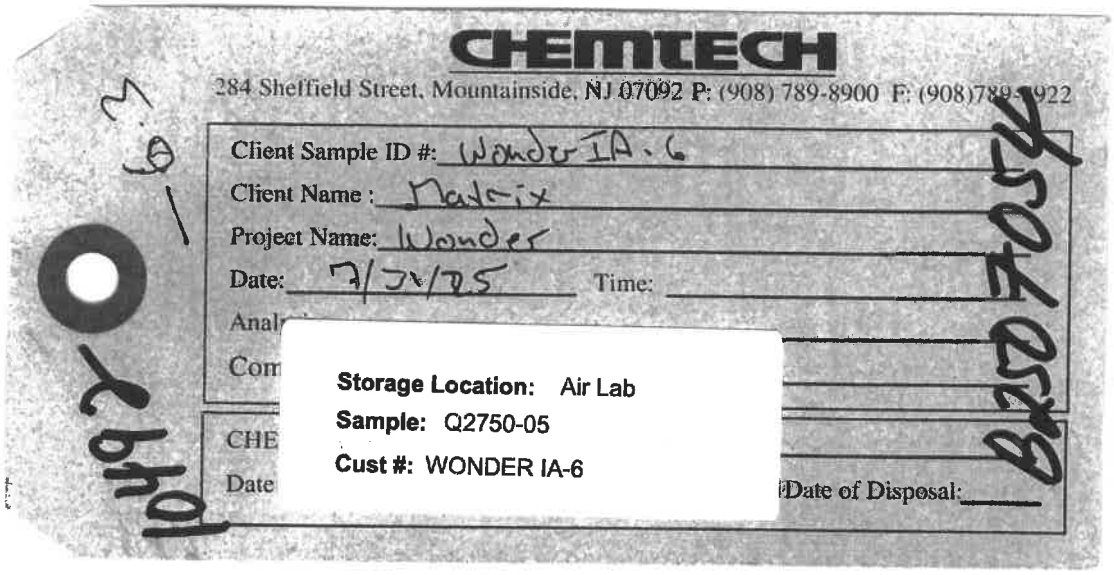
METHOD: TO-15 Pressure Gauge ID: AZ 55971

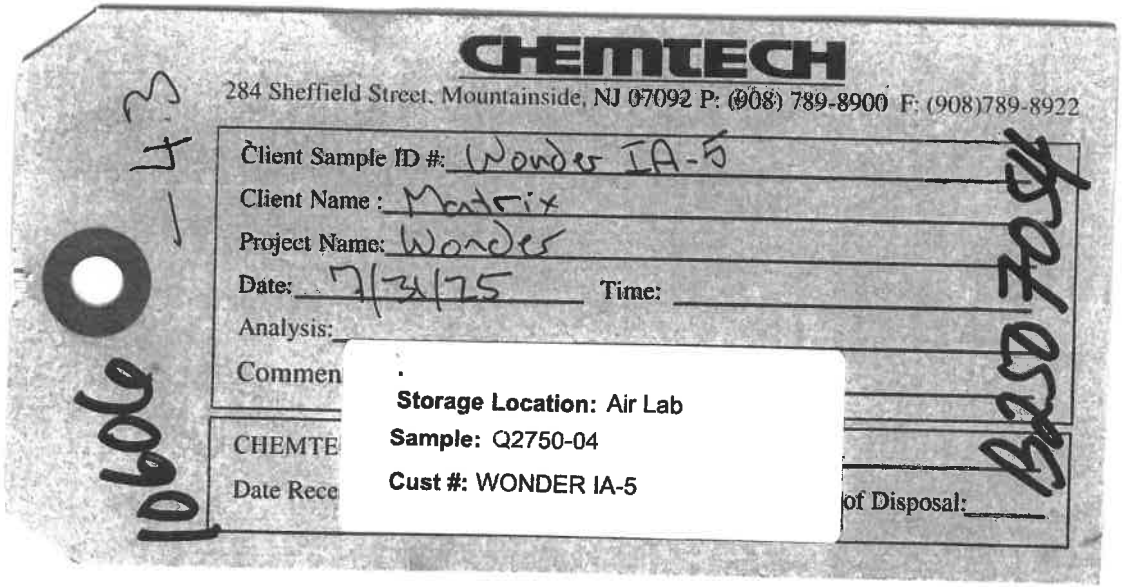
Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
07/28/15	Q2712-01	10607	12.4	-4.7				SV
	Q2712-02	10282	12.4	-4.7				
	Q2712-03	10320	12.2	-5.1				
	Q2712-04	10275	12.2	-5.1				
	Q2712-05	10445	12.4	-4.7				
	Q2712-06	10158	12.6	-4.3				
	Q2712-07	10300	13.0	-3.5				
8/01/15	Q2750-01	10280	12.4	-4.7				SV
	Q2750-02	10279	11.4	-6.7				
	Q2750-03	10601	11.4	-6.7				
	Q2750-04	10606	12.6	-4.3				
	Q2750-05	10492	11.6	-6.3				
	Q2750-06	10321	12.2	-5.1				
	Q2750-07	10198	12.0	-5.5				
	Q2750-08	10315	11.8	-5.9				
	Q2750-09	10590	11.4	-6.7				
	Q250-10	10153	10.0	-9.6				

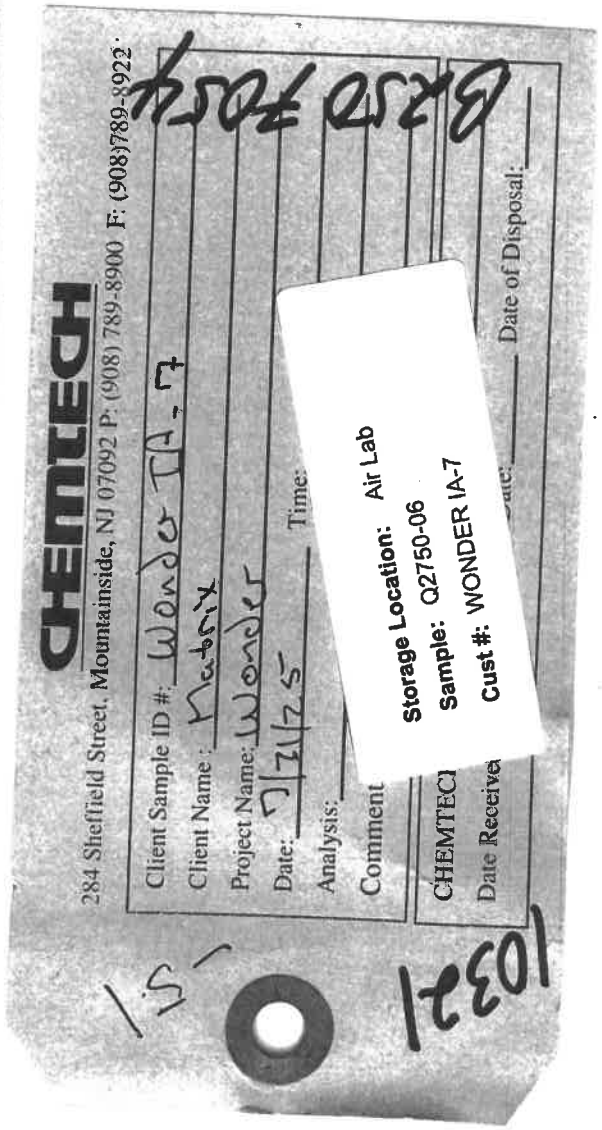

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Wonder IA-2
Client Name : Nobrit
Project Name: Wonder
Date: 7/31/25 Time:
Analysis:
Comments:
CHEMTECH'S S
Date Received:
Disposal:
Storage Location: Air Lab
Sample: Q2750-01
Cust #: WONDER IA-2
10280
B250 7054

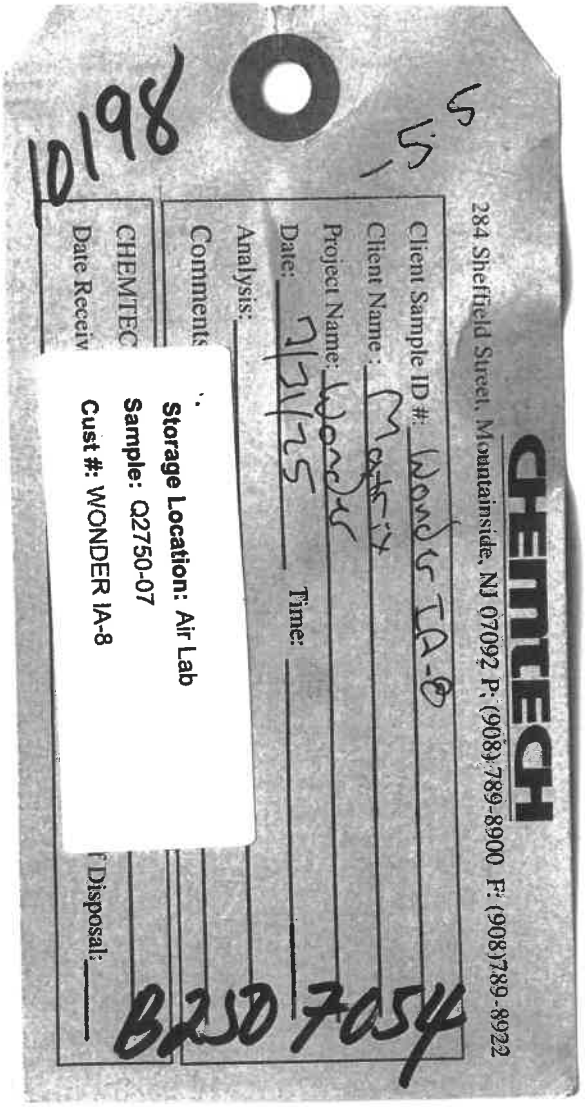

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Wonder IA-3
Client Name : Nobrit
Project Name: Wonder
Date: 7/31/25 Time:
Analysis:
Comments:
CHEMTECH'S S
Date Received:
Storage Location: Air Lab
Sample: Q2750-02
Cust #: WONDER IA-3
10279
B250 7054

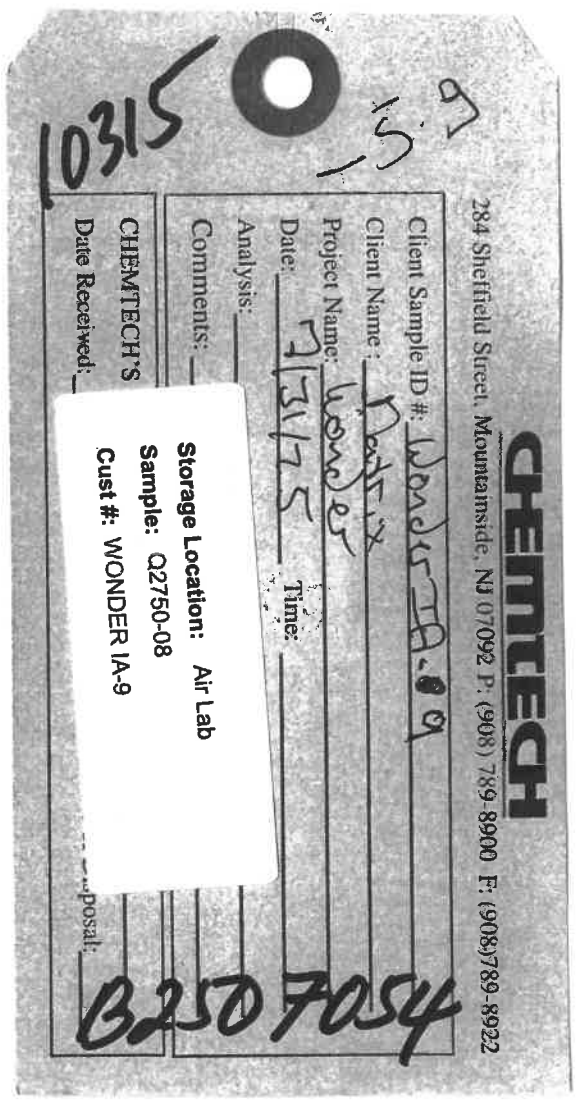

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Wonder IA-4
Client Name : Nobrit
Project Name: Wonder
Date: 7/31/25 Time:
Analysis:
Comments:
CHEMTEC
Date Recei
Disposal:
Storage Location: Air Lab
Sample: Q2750-03
Cust #: WONDER IA-4
10281
B250 7054

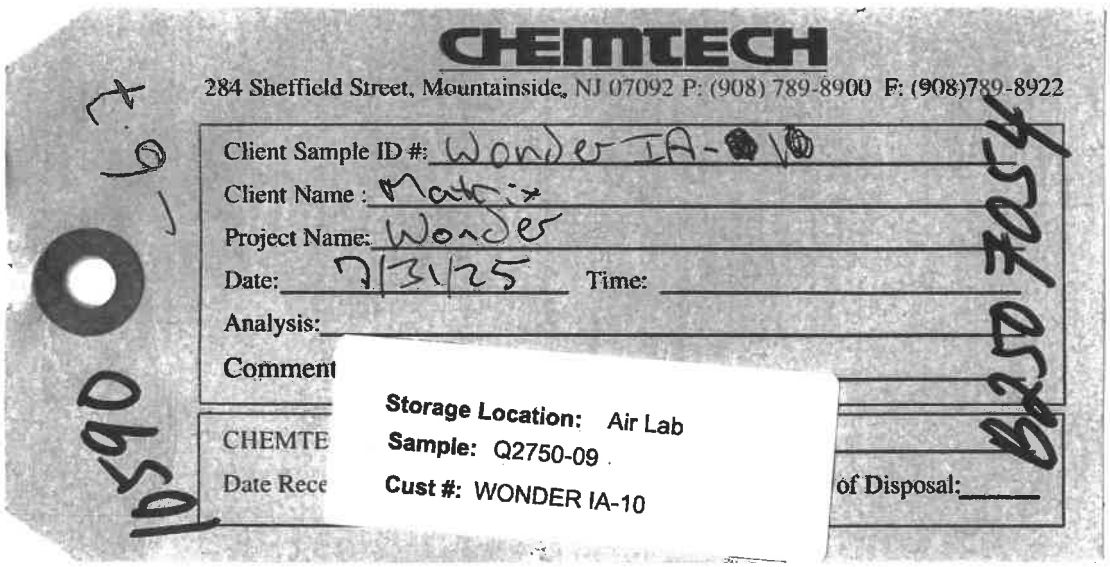

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Wonder IA-6
Client Name: Matrix
Project Name: Wonder
Date: 7/31/25 Time:
Storage Location: Air Lab
Sample: Q2750-05
Cust #: WONDER IA-6
Date of Disposal:
B250705

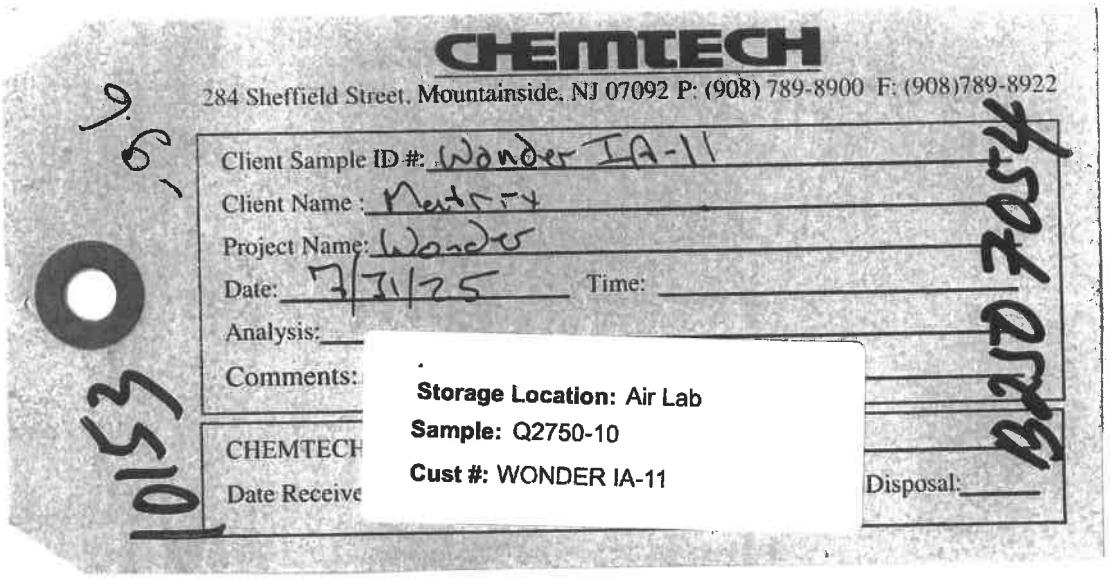

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Wonder IA-5
Client Name: Matrix
Project Name: Wonder
Date: 7/31/25 Time:
Analysis:
Storage Location: Air Lab
Sample: Q2750-04
Cust #: WONDER IA-5
B250705


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Wonder IA-7
Client Name: Matrix
Project Name: Wonder
Date: 7/31/25 Time:
Analysis:
Comment
Storage Location: Air Lab
Sample: Q2750-06
Cust #: WONDER IA-7
Date of Disposal:
B250705


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Wonder IA-8
Client Name: Matrix
Project Name: Wonder
Date: 7/31/25 Time:
Analysis:
Comments:
CHEMTECH'S
Date Received:
Disposal:
Storage Location: Air Lab
Sample: Q2750-07
Cust #: WONDER IA-8
10198
B250 7054


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Wonder IA-9
Client Name: Matrix
Project Name: Wonder
Date: 7/31/25 Time:
Analysis:
Comments:
CHEMTECH'S
Date Received:
Disposal:
Storage Location: Air Lab
Sample: Q2750-08
Cust #: WONDER IA-9
10315
B250 7054


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Wonder IA-10
Client Name: Matrix
Project Name: Wonder
Date: 7/31/25 Time:
Analysis:
Comment
CHEMTE
Date Rece
of Disposal:
Storage Location: Air Lab
Sample: Q2750-09
Cust #: WONDER IA-10
10590
B250 7054


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Wonder IA-11
Client Name :
Project Name: Wonder
Date: 7/31/25
Time:
Analysis:
Comments:
CHEMTECH
Date Receive
Disposal:
Storage Location: Air Lab
Sample: Q2750-10
Cust #: WONDER IA-11
10153
BLSD 7054

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

Laboratory Certification

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

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

CASE NARRATIVE

Matrix New World Engineering
Project Name: Wonder Group Inc. Emergency IH Assess - 25-0580
Project # N/A
Order ID # Q2750
Test Name: TO-15

A. Number of Samples and Date of Receipt:
10 Air sample was received on 08/01/2025

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 {Q2750-01DUP} with File ID: VL042800.D met criteria except for Tetrachloroethene[28.6%] due to difference in results of original and DUP.

The RPD for {Q2750-04DUP} with File ID: VL042814.D met criteria except for 1,2,4-Trimethylbenzene[32.6%], Carbon disulfide[20.7%], Hexane[23.7%], Methyl methacrylate[200%], Styrene[200%] and Toluene[27.8%] 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 (VL072325AIR.M) for Naphthalene and 1,2,4-Trichlorobenzene these compounds are passing on Linear Regression.

The Continuous Calibration met the requirements.

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

The Tuning criteria met requirements.

Samples WONDER IA-2, WONDER IA-3, WONDER IA-4, WONDER IA-5, WONDER IA-6, WONDER IA-7, WONDER IA-8, WONDER IA-9 and WONDER IA-11 were diluted due to high concentrations.

E. Additional Comments:
Samples #WONDER IA-2, WONDER IA-3, WONDER IA-4, WONDER IA-5, WONDER IA-6, WONDER IA-7, WONDER IA-8, WONDER IA-9, WONDER IA-10, WONDER IA-11 have the concentration of some target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.
The Manual Integrations are performed for the followings.

Manual Integration Report			
Sequence	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042747.D	m/p-Xylene	SAM	7/24/2025 9:02:56 AM	MMDadoda	7/24/2025 2:20:57 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042748.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042748.D	1,4-Dioxane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042748.D	4-Methyl-2-Pentanone	SAM	7/24/2025	MMDadoda	7/24/2025	Peak Integrat

				9:03:01 AM		2:20:59 PM	ed by Software incorrectly
VSTDICC002	VL042748.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042748.D	Cyclohexane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042748.D	Heptane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042748.D	m/p-Xylene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042748.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042748.D	trans-1,2-Dichloroethene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICC0	VL04274	1,4-Dioxane	SAM	7/24/20	MMDado	7/24/20	Peak

01	9.D			25 9:03:21 AM	da	25 2:21:02 PM	Integrated by Software incorrectly
VSTDICC001	VL042749.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042749.D	Bromodichloromethane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042749.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042749.D	Ethanol	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042749.D	Heptane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042749.D	m/p-Xylene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly

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

VSTDICC001	VL042749.D	Methyl Methacrylate	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042749.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	1,2-Dibromoethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	1,4-Dioxane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	2-Hexanone	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly

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

VSTDICC0.5	VL042750.D	Benzyl Chloride	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	Bromodichloromethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	Dibromochloromethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	Ethanol	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	Heptane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	m/p-Xylene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly

VSTDICC0.5	VL042750.D	Methyl Methacrylate	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	Tetrahydrofuran	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042750.D	Trichloroethene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042752.D	1,1,1-Trichloroethane	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042752.D	1,1,2,2-Tetrachloroethane	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042752.D	Carbon Tetrachloride	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly

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

VSTDICC0.03	VL042752.D	Tetrachloroethene	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042752.D	Trichloroethene	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL042753.D	m/p-Xylene	SAM	7/24/2025 9:03:41 AM	MMDadoda	7/24/2025 2:21:10 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042754.D	1,1,2,2-Tetrachloroethane	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042754.D	1,2-Dibromoethane	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042754.D	Carbon Tetrachloride	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042754.D	Tetrachloroethene	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software incorrectly

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

VSTDICC0.1	VL042754.D	Trichloroethene	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042755.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042755.D	m/p-Xylene	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software incorrectly

Sequence	VL080425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042796.D	m/p-Xylene	SAM	8/5/2025 7:22:52 AM	MMDadoda	8/5/2025 12:51:57 PM	Peak Integrated by Software incorrectly
VL0804ABS01	VL042798.D	1,1,2-Trichloroethane	SAM	8/5/2025 7:22:57 AM	MMDadoda	8/5/2025 12:52:02 PM	Peak Integrated by Software incorrectly
VL0804ABS01	VL042798.D	m/p-Xylene	SAM	8/5/2025 7:22:57 AM	MMDadoda	8/5/2025 12:52:02 PM	Peak Integrated by Software incorrectly
Q2750-01	VL042799.D	2,2,4-Trimethylpentane	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software incorrectly

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

Q2750-01	VL042799.D	Carbon Tetrachloride	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software incorrectly
Q2750-01	VL042799.D	Heptane	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software incorrectly
Q2750-01	VL042799.D	Isopropyl Alcohol	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software incorrectly
Q2750-01	VL042799.D	m/p-Xylene	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software incorrectly
Q2750-01	VL042799.D	Propene	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software incorrectly
Q2750-01	VL042799.D	Styrene	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software incorrectly
Q2750-01	VL042799.D	Tetrachloroethene	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software incorrectly
Q2750-01	VL042799.D	Tetrahydrofuran	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software incorrectly
Q2750-01DUP	VL042800.D	1,2,4-Trichlorobenzene	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software incorrectly
Q2750-01DUP	VL042800.D	2,2,4-Trimethylpentane	sam	8/6/2025	MMdadoda	8/6/2025 2:04:31	Peak Integrate

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

				2:03:17 AM		AM	d by Software incorrectly
Q2750-01DUP	VL042800.D	Carbon Tetrachloride	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software incorrectly
Q2750-01DUP	VL042800.D	Ethyl Acetate	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software incorrectly
Q2750-01DUP	VL042800.D	Heptane	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software incorrectly
Q2750-01DUP	VL042800.D	Isopropyl Alcohol	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software incorrectly
Q2750-01DUP	VL042800.D	m/p-Xylene	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software incorrectly
Q2750-01DUP	VL042800.D	Propene	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software incorrectly
Q2750-01DUP	VL042800.D	Tetrachloroethene	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software incorrectly
Q2750-01DUP	VL042800.D	Tetrahydrofuran	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software incorrectly
Q2750-02	VL042801.D	2,2,4-Trimethylpentane	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software

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

							incorrectly
Q2750-02	VL042801.D	Carbon Tetrachloride	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software incorrectly
Q2750-02	VL042801.D	Dichlorodifluoromethane	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software incorrectly
Q2750-02	VL042801.D	m/p-Xylene	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software incorrectly
Q2750-02	VL042801.D	Methyl Methacrylate	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software incorrectly
Q2750-02	VL042801.D	Propene	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software incorrectly
Q2750-02	VL042801.D	Toluene	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software incorrectly
Q2750-03	VL042802.D	2,2,4-Trimethylpentane	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software incorrectly
Q2750-03	VL042802.D	Carbon Tetrachloride	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software incorrectly
Q2750-03	VL042802.D	Ethyl Acetate	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software incorrectly

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

Q2750-03	VL042802.D	Isopropyl Alcohol	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software incorrectly
Q2750-03	VL042802.D	m/p-Xylene	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software incorrectly
Q2750-03	VL042802.D	Methyl Methacrylate	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software incorrectly
Q2750-03	VL042802.D	Propene	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software incorrectly
Q2750-03	VL042802.D	Styrene	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software incorrectly
Q2750-03	VL042802.D	Tetrahydrofuran	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software incorrectly
Q2750-04	VL042803.D	Carbon Tetrachloride	SAM	8/5/2025 7:25:37 AM	MMDadoda	8/5/2025 12:52:19 PM	Peak Integrated by Software incorrectly
Q2750-04	VL042803.D	Dichlorodifluoromethane	SAM	8/5/2025 7:25:37 AM	MMDadoda	8/5/2025 12:52:19 PM	Peak Integrated by Software incorrectly
Q2750-04	VL042803.D	Isopropyl Alcohol	SAM	8/5/2025 7:25:37 AM	MMDadoda	8/5/2025 12:52:19 PM	Peak Integrated by Software incorrectly
Q2750-04	VL042803.D	m/p-Xylene	SAM	8/5/2025	MMDadoda	8/5/2025 12:52:19	Peak Integrate

				7:25:37 AM		PM	d by Software incorrectly
Q2750-04	VL042803.D	Methyl Methacrylate	SAM	8/5/2025 7:25:37 AM	MMDadoda	8/5/2025 12:52:19 PM	Peak Integrated by Software incorrectly
Q2750-04	VL042803.D	Propene	SAM	8/5/2025 7:25:37 AM	MMDadoda	8/5/2025 12:52:19 PM	Peak Integrated by Software incorrectly
Q2750-04	VL042803.D	Styrene	SAM	8/5/2025 7:25:37 AM	MMDadoda	8/5/2025 12:52:19 PM	Peak Integrated by Software incorrectly
Q2750-05	VL042804.D	Carbon Tetrachloride	SAM	8/5/2025 7:23:07 AM	MMDadoda	8/5/2025 12:52:22 PM	Peak Integrated by Software incorrectly
Q2750-05	VL042804.D	m/p-Xylene	SAM	8/5/2025 7:23:07 AM	MMDadoda	8/5/2025 12:52:22 PM	Peak Integrated by Software incorrectly
Q2750-05	VL042804.D	Methyl Methacrylate	SAM	8/5/2025 7:23:07 AM	MMDadoda	8/5/2025 12:52:22 PM	Peak Integrated by Software incorrectly
Q2750-05	VL042804.D	Propene	SAM	8/5/2025 7:23:07 AM	MMDadoda	8/5/2025 12:52:22 PM	Peak Integrated by Software incorrectly
Q2750-05	VL042804.D	Toluene	SAM	8/5/2025 7:23:07 AM	MMDadoda	8/5/2025 12:52:22 PM	Peak Integrated by Software incorrectly
Q2750-06	VL042805.D	2,2,4-Trimethylpentane	SAM	8/5/2025 7:25:03 AM	MMDadoda	8/5/2025 12:52:25 PM	Peak Integrated by Software

							incorrectly
Q2750-06	VL042805.D	Carbon Tetrachloride	SAM	8/5/2025 7:25:03 AM	MMDadoda	8/5/2025 12:52:25 PM	Peak Integrated by Software incorrectly
Q2750-06	VL042805.D	Isopropyl Alcohol	SAM	8/5/2025 7:25:03 AM	MMDadoda	8/5/2025 12:52:25 PM	Peak Integrated by Software incorrectly
Q2750-06	VL042805.D	Propene	SAM	8/5/2025 7:25:03 AM	MMDadoda	8/5/2025 12:52:25 PM	Peak Integrated by Software incorrectly
Q2750-06	VL042805.D	Trichlorofluoromethane	SAM	8/5/2025 7:25:03 AM	MMDadoda	8/5/2025 12:52:25 PM	Peak Integrated by Software incorrectly
Q2750-07	VL042806.D	2,2,4-Trimethylpentane	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software incorrectly
Q2750-07	VL042806.D	Carbon Tetrachloride	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software incorrectly
Q2750-07	VL042806.D	Ethyl Acetate	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software incorrectly
Q2750-07	VL042806.D	Heptane	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software incorrectly
Q2750-07	VL042806.D	Isopropyl Alcohol	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software incorrectly

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

Q2750-07	VL042806.D	m/p-Xylene	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software incorrectly
Q2750-07	VL042806.D	Propene	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software incorrectly
Q2750-08	VL042807.D	2,2,4-Trimethylpentane	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software incorrectly
Q2750-08	VL042807.D	Carbon Tetrachloride	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software incorrectly
Q2750-08	VL042807.D	Dichlorodifluoromethane	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software incorrectly
Q2750-08	VL042807.D	Ethyl Acetate	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software incorrectly
Q2750-08	VL042807.D	Heptane	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software incorrectly
Q2750-08	VL042807.D	m/p-Xylene	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software incorrectly
Q2750-08	VL042807.D	Propene	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software incorrectly
Q2750-08	VL042807.D	Tetrahydrofuran	sam	8/6/2025	MMdadoda	8/6/2025 2:04:45	Peak Integrate

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

				2:03:34 AM		AM	d by Software incorrectly
Q2750-09	VL042808.D	2,2,4-Trimethylpentane	SAM	8/5/2025 7:24:21 AM	MMDadoda	8/5/2025 12:52:34 PM	Peak Integrated by Software incorrectly
Q2750-09	VL042808.D	Carbon Tetrachloride	SAM	8/5/2025 7:24:21 AM	MMDadoda	8/5/2025 12:52:34 PM	Peak Integrated by Software incorrectly
Q2750-09	VL042808.D	Heptane	SAM	8/5/2025 7:24:21 AM	MMDadoda	8/5/2025 12:52:34 PM	Peak Integrated by Software incorrectly
Q2750-09	VL042808.D	m/p-Xylene	SAM	8/5/2025 7:24:21 AM	MMDadoda	8/5/2025 12:52:34 PM	Peak Integrated by Software incorrectly
Q2750-09	VL042808.D	Propene	SAM	8/5/2025 7:24:21 AM	MMDadoda	8/5/2025 12:52:34 PM	Peak Integrated by Software incorrectly
Q2750-09	VL042808.D	Tetrahydrofuran	SAM	8/5/2025 7:24:21 AM	MMDadoda	8/5/2025 12:52:34 PM	Peak Integrated by Software incorrectly
Q2750-10	VL042809.D	Carbon Tetrachloride	sam	8/6/2025 2:03:40 AM	MMdadoda	8/6/2025 2:04:50 AM	Peak Integrated by Software incorrectly
Q2750-10	VL042809.D	m/p-Xylene	sam	8/6/2025 2:03:40 AM	MMdadoda	8/6/2025 2:04:50 AM	Peak Integrated by Software incorrectly
Q2750-10	VL042809.D	Propene	sam	8/6/2025 2:03:40 AM	MMdadoda	8/6/2025 2:04:50 AM	Peak Integrated by Software

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

							incorrectly
Q2750-10	VL042809.D	tert-Butyl alcohol	sam	8/6/2025 2:03:40 AM	MMdadoda	8/6/2025 2:04:50 AM	Peak Integrated by Software incorrectly
Q2750-10	VL042809.D	Tetrahydrofuran	sam	8/6/2025 2:03:40 AM	MMdadoda	8/6/2025 2:04:50 AM	Peak Integrated by Software incorrectly
Q2750-10	VL042809.D	Toluene	sam	8/6/2025 2:03:40 AM	MMdadoda	8/6/2025 2:04:50 AM	Peak Integrated by Software incorrectly
Q2750-10DL	VL042810.D	Propene	SAM	8/5/2025 7:23:58 AM	MMDadoda	8/5/2025 12:52:39 PM	Peak Integrated by Software incorrectly
Q2750-03DL	VL042813.D	Propene	SAM	8/5/2025 7:23:12 AM	MMDadoda	8/5/2025 12:52:44 PM	Peak Integrated by Software incorrectly
Q2750-04DUP	VL042814.D	1,2,4-Trimethylbenzene	sam	8/6/2025 2:03:45 AM	MMdadoda	8/6/2025 2:04:55 AM	Peak Integrated by Software incorrectly
Q2750-04DUP	VL042814.D	Carbon Tetrachloride	sam	8/6/2025 2:03:45 AM	MMdadoda	8/6/2025 2:04:55 AM	Peak Integrated by Software incorrectly
Q2750-04DUP	VL042814.D	m/p-Xylene	sam	8/6/2025 2:03:45 AM	MMdadoda	8/6/2025 2:04:55 AM	Peak Integrated by Software incorrectly
Q2750-04DUP	VL042814.D	Methyl Methacrylate	sam	8/6/2025 2:03:45 AM	MMdadoda	8/6/2025 2:04:55 AM	Peak Integrated by Software incorrectly

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

Q2750-04DUP	VL042814.D	Propene	sam	8/6/2025 2:03:45 AM	MMdadoda	8/6/2025 2:04:55 AM	Peak Integrated by Software incorrectly
Q2750-04DUP	VL042814.D	Styrene	sam	8/6/2025 2:03:45 AM	MMdadoda	8/6/2025 2:04:55 AM	Peak Integrated by Software incorrectly
Q2750-04DL	VL042815.D	Propene	SAM	8/5/2025 7:24:42 AM	MMDadoda	8/5/2025 12:52:50 PM	Peak Integrated by Software incorrectly
Q2750-05DL	VL042816.D	Propene	SAM	8/5/2025 7:25:17 AM	MMDadoda	8/5/2025 12:52:52 PM	Peak Integrated by Software incorrectly
Q2750-06DL	VL042817.D	Propene	SAM	8/5/2025 7:23:18 AM	MMDadoda	8/5/2025 12:52:53 PM	Peak Integrated by Software incorrectly
Q2750-07DL	VL042818.D	Propene	SAM	8/5/2025 7:24:46 AM	MMDadoda	8/5/2025 12:52:55 PM	Peak Integrated by Software incorrectly
Q2750-08DL	VL042819.D	Propene	SAM	8/5/2025 7:23:40 AM	MMDadoda	8/5/2025 12:52:57 PM	Peak Integrated by Software incorrectly
Q2750-01DL	VL042821.D	Propene	SAM	8/5/2025 7:23:28 AM	MMDadoda	8/5/2025 12:53:04 PM	Peak Integrated by Software incorrectly
Q2750-02DL	VL042822.D	Propene	SAM	8/5/2025 7:23:35 AM	MMDadoda	8/5/2025 12:53:06 PM	Peak Integrated by Software incorrectly

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

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 #: Q2750

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

QA Review Signature: SOHIL JODHANI **Date:** 08/07/2025

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

LAB CHRONICLE

OrderID:	Q2750	**OrderDate:**	8/1/2025 1:15:51 PM
Client:	Matrix New World Engineering	**Project:**	Wonder Group Inc. Emergency IH Assess - 25-0580
Contact:	Kali Primiani	**Location:**	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2750-01	**WONDER IA-2**	**Air**			**08/01/25**			**08/01/25**
			TO-15	TO-15			08/04/25	
Q2750-01DL	**WONDER IA-2DL**	**Air**			**08/01/25**			**08/01/25**
			TO-15	TO-15			08/05/25	
Q2750-02	**WONDER IA-3**	**Air**			**08/01/25**			**08/01/25**
			TO-15	TO-15			08/04/25	
Q2750-02DL	**WONDER IA-3DL**	**Air**			**08/01/25**			**08/01/25**
			TO-15	TO-15			08/05/25	
Q2750-03	**WONDER IA-4**	**Air**			**08/01/25**			**08/01/25**
			TO-15	TO-15			08/04/25	
Q2750-03DL	**WONDER IA-4DL**	**Air**			**08/01/25**			**08/01/25**
			TO-15	TO-15			08/04/25	
Q2750-04	**WONDER IA-5**	**Air**			**08/01/25**			**08/01/25**
			TO-15	TO-15			08/04/25	
Q2750-04DL	**WONDER IA-5DL**	**Air**			**08/01/25**			**08/01/25**
			TO-15	TO-15			08/04/25	
Q2750-05	**WONDER IA-6**	**Air**			**08/01/25**			**08/01/25**
			TO-15	TO-15			08/04/25	
Q2750-05DL	**WONDER IA-6DL**	**Air**			**08/01/25**			**08/01/25**
			TO-15	TO-15			08/04/25	
Q2750-06	**WONDER IA-7**	**Air**			**08/01/25**			**08/01/25**
			TO-15	TO-15			08/04/25	
Q2750-06DL	**WONDER IA-7DL**	**Air**			**08/01/25**			**08/01/25**

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

LAB CHRONICLE

			TO-15	TO-15		08/04/25	
Q2750-07	**WONDER IA-8**	**Air**			**08/01/25**		**08/01/25**
			TO-15	TO-15		08/04/25	
Q2750-07DL	**WONDER IA-8DL**	**Air**			**08/01/25**		**08/01/25**
			TO-15	TO-15		08/04/25	
Q2750-08	**WONDER IA-9**	**Air**			**08/01/25**		**08/01/25**
			TO-15	TO-15		08/04/25	
Q2750-08DL	**WONDER IA-9DL**	**Air**			**08/01/25**		**08/01/25**
			TO-15	TO-15		08/04/25	
Q2750-09	**WONDER IA-10**	**Air**			**08/01/25**		**08/01/25**
			TO-15	TO-15		08/04/25	
Q2750-10	**WONDER IA-11**	**Air**			**08/01/25**		**08/01/25**
			TO-15	TO-15		08/04/25	
Q2750-10DL	**WONDER IA-11DL**	**Air**			**08/01/25**		**08/01/25**
			TO-15	TO-15		08/04/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q2750

Client: Matrix New World Engineering

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**WONDER IA-2**								
Q2750-01	WONDER IA-2	Air	Dichlorodifluoromethane		2.62		0.54	2.47	ug/m3
Q2750-01	WONDER IA-2	Air	Chloromethane		15.9		0.21	1.03	ug/m3
Q2750-01	WONDER IA-2	Air	Tetrahydrofuran		1.65		0.24	1.47	ug/m3
Q2750-01	WONDER IA-2	Air	Trichlorofluoromethane		1.12	J	0.96	2.81	ug/m3
Q2750-01	WONDER IA-2	Air	Heptane		1.07	J	0.70	2.05	ug/m3
Q2750-01	WONDER IA-2	Air	Acetone		225	E	0.43	1.19	ug/m3
Q2750-01	WONDER IA-2	Air	Carbon Disulfide		11.2		0.25	1.56	ug/m3
Q2750-01	WONDER IA-2	Air	Methylene Chloride		6.95		0.80	1.74	ug/m3
Q2750-01	WONDER IA-2	Air	2-Butanone		5.60		0.18	1.47	ug/m3
Q2750-01	WONDER IA-2	Air	Carbon Tetrachloride		0.63		0.19	0.19	ug/m3
Q2750-01	WONDER IA-2	Air	Chloroform		4.00		0.49	2.44	ug/m3
Q2750-01	WONDER IA-2	Air	Benzene		0.99	J	0.26	1.60	ug/m3
Q2750-01	WONDER IA-2	Air	Toluene		3.35		0.60	1.88	ug/m3
Q2750-01	WONDER IA-2	Air	Tetrachloroethene		0.27		0.14	0.20	ug/m3
Q2750-01	WONDER IA-2	Air	Styrene		0.85	J	0.68	2.13	ug/m3
Q2750-01	WONDER IA-2	Air	1,2,4-Trichlorobenzene		3.79		1.56	3.71	ug/m3
Q2750-01	WONDER IA-2	Air	Naphthalene		2.83		0.050	0.52	ug/m3
Q2750-01	WONDER IA-2	Air	Hexane		6.70		0.56	1.76	ug/m3
			Total Voc :		295				
Q2750-01	WONDER IA-2	Air	Chlorodifluoromethane	*	57.6	J	0.12	0.50	ppbv
Q2750-01	WONDER IA-2	Air	Ethanol	*	6000	J	0.32	0.50	ppbv
Q2750-01	WONDER IA-2	Air	Ethyl Acetate	*	5.20	J	0.12	0.50	ppbv
Q2750-01	WONDER IA-2	Air	Propene	*	15.9	J	0.080	0.50	ppbv
Q2750-01	WONDER IA-2	Air	Isopropyl Alcohol	*	2100	J	0.23	0.50	ppbv
Q2750-01	WONDER IA-2	Air	Vinyl Acetate	*	2.10	J	0.26	0.50	ppbv
Q2750-01	WONDER IA-2	Air	p-Isopropyltoluene	*	0.70	J	0.19	0.50	ppbv
			Total Tics :		8180				
			Total Concentration:		8480				
Client ID:	**WONDER IA-2DL**								
Q2750-01DL	WONDER IA-2DL	Air	Chloromethane		17.4	JD	4.13	20.6	ug/m3
Q2750-01DL	WONDER IA-2DL	Air	Acetone		380	D	8.55	23.8	ug/m3
Q2750-01DL	WONDER IA-2DL	Air	Methylene Chloride		24.7	JD	16.0	34.7	ug/m3
			Total Voc :		422				
			Total Concentration:		422				
Client ID:	**WONDER IA-3**								
Q2750-02	WONDER IA-3	Air	Dichlorodifluoromethane		2.72		0.54	2.47	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q2750

Client: Matrix New World Engineering

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2750-02	WONDER IA-3	Air	Chloromethane		1.32		0.21	1.03	ug/m3
Q2750-02	WONDER IA-3	Air	Tetrahydrofuran		1.09	J	0.24	1.47	ug/m3
Q2750-02	WONDER IA-3	Air	Trichlorofluoromethane		1.18	J	0.96	2.81	ug/m3
Q2750-02	WONDER IA-3	Air	Acetone		233	E	0.43	1.19	ug/m3
Q2750-02	WONDER IA-3	Air	Carbon Disulfide		10.6		0.25	1.56	ug/m3
Q2750-02	WONDER IA-3	Air	Methylene Chloride		5.56		0.80	1.74	ug/m3
Q2750-02	WONDER IA-3	Air	2-Butanone		3.24		0.18	1.47	ug/m3
Q2750-02	WONDER IA-3	Air	Carbon Tetrachloride		0.44		0.19	0.19	ug/m3
Q2750-02	WONDER IA-3	Air	Chloroform		2.73		0.49	2.44	ug/m3
Q2750-02	WONDER IA-3	Air	Benzene		0.89	J	0.26	1.60	ug/m3
Q2750-02	WONDER IA-3	Air	Toluene		3.01		0.60	1.88	ug/m3
Q2750-02	WONDER IA-3	Air	Styrene		0.98	J	0.68	2.13	ug/m3
Q2750-02	WONDER IA-3	Air	Naphthalene		2.52		0.050	0.52	ug/m3
Q2750-02	WONDER IA-3	Air	Hexane		5.99		0.56	1.76	ug/m3
Q2750-02	WONDER IA-3	Air	Methyl Methacrylate		0.57	J	0.57	2.05	ug/m3
			Total Voc :		276				
Q2750-02	WONDER IA-3	Air	.alpha.-Pinene	*	5.20	J	0	0	ppbv
Q2750-02	WONDER IA-3	Air	D-Limonene	*	30.7	J	0	0	ppbv
Q2750-02	WONDER IA-3	Air	11H-Dibenzo[b,e][1,4]diazepin	*	4.80	J	0	0	ppbv
Q2750-02	WONDER IA-3	Air	3-Carene	*	11.1	J	0	0	ppbv
Q2750-02	WONDER IA-3	Air	Bicyclo[3.1.1]heptane, 6,6-dim	*	7.30	J	0	0	ppbv
Q2750-02	WONDER IA-3	Air	Chlorodifluoromethane	*	56.1	J	0.12	0.50	ppbv
Q2750-02	WONDER IA-3	Air	Ethanol	*	6500	J	0.32	0.50	ppbv
Q2750-02	WONDER IA-3	Air	Ethyl Acetate	*	5.60	J	0.12	0.50	ppbv
Q2750-02	WONDER IA-3	Air	Propene	*	18.2	J	0.080	0.50	ppbv
Q2750-02	WONDER IA-3	Air	Isopropyl Alcohol	*	2200	J	0.23	0.50	ppbv
Q2750-02	WONDER IA-3	Air	p-Isopropyltoluene	*	0.66	J	0.19	0.50	ppbv
			Total Tics :		8840				
			Total Concentration:		9120				
Client ID:	**WONDER IA-3DL**								
Q2750-02DL	WONDER IA-3DL	Air	Acetone		404	D	8.55	23.8	ug/m3
Q2750-02DL	WONDER IA-3DL	Air	Methylene Chloride		19.4	JD	16.0	34.7	ug/m3
			Total Voc :		423				
			Total Concentration:		423				
Client ID:	**WONDER IA-4**								
Q2750-03	WONDER IA-4	Air	Dichlorodifluoromethane		2.67		0.54	2.47	ug/m3
Q2750-03	WONDER IA-4	Air	Chloromethane		1.40		0.21	1.03	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q2750

Client: Matrix New World Engineering

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2750-03	WONDER IA-4	Air	Tetrahydrofuran		0.97	J	0.24	1.47	ug/m3
Q2750-03	WONDER IA-4	Air	Trichlorofluoromethane		1.12	J	0.96	2.81	ug/m3
Q2750-03	WONDER IA-4	Air	Acetone		228	E	0.43	1.19	ug/m3
Q2750-03	WONDER IA-4	Air	Carbon Disulfide		10.3		0.25	1.56	ug/m3
Q2750-03	WONDER IA-4	Air	Methylene Chloride		6.60		0.80	1.74	ug/m3
Q2750-03	WONDER IA-4	Air	2-Butanone		2.77		0.18	1.47	ug/m3
Q2750-03	WONDER IA-4	Air	Carbon Tetrachloride		0.38		0.19	0.19	ug/m3
Q2750-03	WONDER IA-4	Air	Chloroform		2.88		0.49	2.44	ug/m3
Q2750-03	WONDER IA-4	Air	Benzene		0.83	J	0.26	1.60	ug/m3
Q2750-03	WONDER IA-4	Air	Toluene		2.86		0.60	1.88	ug/m3
Q2750-03	WONDER IA-4	Air	Styrene		0.77	J	0.68	2.13	ug/m3
Q2750-03	WONDER IA-4	Air	Naphthalene		2.41		0.050	0.52	ug/m3
Q2750-03	WONDER IA-4	Air	Hexane		6.70		0.56	1.76	ug/m3
Q2750-03	WONDER IA-4	Air	Methyl Methacrylate		0.61	J	0.57	2.05	ug/m3
			Total Voc :		272				
Q2750-03	WONDER IA-4	Air	.alpha.-Pinene	*	4.80	J	0	0	ppbv
Q2750-03	WONDER IA-4	Air	.beta.-Pinene	*	6.60	J	0	0	ppbv
Q2750-03	WONDER IA-4	Air	D-Limonene	*	27.5	J	0	0	ppbv
Q2750-03	WONDER IA-4	Air	3-Carene	*	10.4	J	0	0	ppbv
Q2750-03	WONDER IA-4	Air	Chlorodifluoromethane	*	55.8	J	0.12	0.50	ppbv
Q2750-03	WONDER IA-4	Air	Ethanol	*	6300	J	0.32	0.50	ppbv
Q2750-03	WONDER IA-4	Air	Ethyl Acetate	*	5.00	J	0.12	0.50	ppbv
Q2750-03	WONDER IA-4	Air	Propene	*	18.9	J	0.080	0.50	ppbv
Q2750-03	WONDER IA-4	Air	Isopropyl Alcohol	*	2100	J	0.23	0.50	ppbv
Q2750-03	WONDER IA-4	Air	p-Isopropyltoluene	*	0.61	J	0.19	0.50	ppbv
			Total Tics :		8530				
			Total Concentration:		8800				
Client ID:	**WONDER IA-4DL**								
Q2750-03DL	WONDER IA-4DL	Air	Acetone		380	D	8.55	23.8	ug/m3
Q2750-03DL	WONDER IA-4DL	Air	Methylene Chloride		24.3	JD	16.0	34.7	ug/m3
			Total Voc :		404				
			Total Concentration:		404				
Client ID:	**WONDER IA-5**								
Q2750-04	WONDER IA-5	Air	Dichlorodifluoromethane		2.67		0.54	2.47	ug/m3
Q2750-04	WONDER IA-5	Air	Chloromethane		1.38		0.21	1.03	ug/m3
Q2750-04	WONDER IA-5	Air	Trichlorofluoromethane		1.18	J	0.96	2.81	ug/m3
Q2750-04	WONDER IA-5	Air	Acetone		228	E	0.43	1.19	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q2750

Client: Matrix New World Engineering

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2750-04	WONDER IA-5	Air	Carbon Disulfide		9.97		0.25	1.56	ug/m3
Q2750-04	WONDER IA-5	Air	Methylene Chloride		28.5		0.80	1.74	ug/m3
Q2750-04	WONDER IA-5	Air	2-Butanone		3.54		0.18	1.47	ug/m3
Q2750-04	WONDER IA-5	Air	Carbon Tetrachloride		0.38		0.19	0.19	ug/m3
Q2750-04	WONDER IA-5	Air	Chloroform		2.69		0.49	2.44	ug/m3
Q2750-04	WONDER IA-5	Air	Benzene		0.83	J	0.26	1.60	ug/m3
Q2750-04	WONDER IA-5	Air	Toluene		3.09		0.60	1.88	ug/m3
Q2750-04	WONDER IA-5	Air	Styrene		0.85	J	0.68	2.13	ug/m3
Q2750-04	WONDER IA-5	Air	1,2,4-Trimethylbenzene		0.88	J	0.88	2.46	ug/m3
Q2750-04	WONDER IA-5	Air	Naphthalene		2.52		0.050	0.52	ug/m3
Q2750-04	WONDER IA-5	Air	Hexane		23.3		0.56	1.76	ug/m3
Q2750-04	WONDER IA-5	Air	Methyl Methacrylate		0.61	J	0.57	2.05	ug/m3
			Total Voc :		310				
Q2750-04	WONDER IA-5	Air	.alpha.-Pinene	*	5.10	J	0	0	ppbv
Q2750-04	WONDER IA-5	Air	.beta.-Pinene	*	7.20	J	0	0	ppbv
Q2750-04	WONDER IA-5	Air	D-Limonene	*	30.3	J	0	0	ppbv
Q2750-04	WONDER IA-5	Air	3-Carene	*	11.0	J	0	0	ppbv
Q2750-04	WONDER IA-5	Air	5-(4-Fluorophenyl)-1,3-oxazole	*	5.70	J	0	0	ppbv
Q2750-04	WONDER IA-5	Air	Chlorodifluoromethane	*	55.1	J	0.12	0.50	ppbv
Q2750-04	WONDER IA-5	Air	Ethanol	*	6200	J	0.32	0.50	ppbv
Q2750-04	WONDER IA-5	Air	Ethyl Acetate	*	4.50	J	0.12	0.50	ppbv
Q2750-04	WONDER IA-5	Air	Propene	*	14.7	J	0.080	0.50	ppbv
Q2750-04	WONDER IA-5	Air	Isopropyl Alcohol	*	2200	J	0.23	0.50	ppbv
Q2750-04	WONDER IA-5	Air	p-Isopropyltoluene	*	0.64	J	0.19	0.50	ppbv
			Total Tics :		8530				
			Total Concentration:		8840				
Client ID:	**WONDER IA-5DL**								
Q2750-04DL	WONDER IA-5DL	Air	Acetone		309	D	8.55	23.8	ug/m3
Q2750-04DL	WONDER IA-5DL	Air	Methylene Chloride		47.6	D	16.0	34.7	ug/m3
Q2750-04DL	WONDER IA-5DL	Air	Hexane		14.1	JD	11.3	35.2	ug/m3
			Total Voc :		371				
			Total Concentration:		371				
Client ID:	**WONDER IA-6**								
Q2750-05	WONDER IA-6	Air	Dichlorodifluoromethane		2.82		0.54	2.47	ug/m3
Q2750-05	WONDER IA-6	Air	Chloromethane		1.42		0.21	1.03	ug/m3
Q2750-05	WONDER IA-6	Air	Trichlorofluoromethane		1.18	J	0.96	2.81	ug/m3
Q2750-05	WONDER IA-6	Air	Acetone		232	E	0.43	1.19	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q2750

Client: Matrix New World Engineering

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2750-05	WONDER IA-6	Air	Carbon Disulfide		9.34		0.25	1.56	ug/m3
Q2750-05	WONDER IA-6	Air	Methylene Chloride		6.60		0.80	1.74	ug/m3
Q2750-05	WONDER IA-6	Air	2-Butanone		3.24		0.18	1.47	ug/m3
Q2750-05	WONDER IA-6	Air	Carbon Tetrachloride		0.44		0.19	0.19	ug/m3
Q2750-05	WONDER IA-6	Air	Chloroform		2.78		0.49	2.44	ug/m3
Q2750-05	WONDER IA-6	Air	Benzene		0.89	J	0.26	1.60	ug/m3
Q2750-05	WONDER IA-6	Air	Toluene		3.47		0.60	1.88	ug/m3
Q2750-05	WONDER IA-6	Air	Styrene		0.98	J	0.68	2.13	ug/m3
Q2750-05	WONDER IA-6	Air	Naphthalene		2.41		0.050	0.52	ug/m3
Q2750-05	WONDER IA-6	Air	Hexane		5.99		0.56	1.76	ug/m3
Q2750-05	WONDER IA-6	Air	Methyl Methacrylate		0.57	J	0.57	2.05	ug/m3
			Total Voc :		274				
Q2750-05	WONDER IA-6	Air	.alpha.-Pinene	*	5.60	J	0	0	ppbv
Q2750-05	WONDER IA-6	Air	Nonanal	*	3.30	J	0	0	ppbv
Q2750-05	WONDER IA-6	Air	.beta.-Pinene	*	7.80	J	0	0	ppbv
Q2750-05	WONDER IA-6	Air	Salicylic acid, 2TMS derivative	*	3.50	J	0	0	ppbv
Q2750-05	WONDER IA-6	Air	D-Limonene	*	29.8	J	0	0	ppbv
Q2750-05	WONDER IA-6	Air	3-Carene	*	12.1	J	0	0	ppbv
Q2750-05	WONDER IA-6	Air	Chlorodifluoromethane	*	54.8	J	0.12	0.50	ppbv
Q2750-05	WONDER IA-6	Air	Ethanol	*	6600	J	0.32	0.50	ppbv
Q2750-05	WONDER IA-6	Air	Ethyl Acetate	*	5.20	J	0.12	0.50	ppbv
Q2750-05	WONDER IA-6	Air	Propene	*	16.0	J	0.080	0.50	ppbv
Q2750-05	WONDER IA-6	Air	Isopropyl Alcohol	*	2100	J	0.23	0.50	ppbv
Q2750-05	WONDER IA-6	Air	p-Isopropyltoluene	*	0.77	J	0.19	0.50	ppbv
			Total Tics :		8840				
			Total Concentration:		9110				
Client ID:	**WONDER IA-6DL**								
Q2750-05DL	WONDER IA-6DL	Air	Acetone		404	D	8.55	23.8	ug/m3
Q2750-05DL	WONDER IA-6DL	Air	Methylene Chloride		19.1	JD	16.0	34.7	ug/m3
			Total Voc :		423				
			Total Concentration:		423				
Client ID:	**WONDER IA-7**								
Q2750-06	WONDER IA-7	Air	Dichlorodifluoromethane		2.87		0.54	2.47	ug/m3
Q2750-06	WONDER IA-7	Air	Chloromethane		1.53		0.21	1.03	ug/m3
Q2750-06	WONDER IA-7	Air	Trichlorofluoromethane		1.24	J	0.96	2.81	ug/m3
Q2750-06	WONDER IA-7	Air	Acetone		234	E	0.43	1.19	ug/m3
Q2750-06	WONDER IA-7	Air	Carbon Disulfide		8.72		0.25	1.56	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q2750

Client: Matrix New World Engineering

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2750-06	WONDER IA-7	Air	Methylene Chloride		7.64		0.80	1.74	ug/m3
Q2750-06	WONDER IA-7	Air	2-Butanone		2.89		0.18	1.47	ug/m3
Q2750-06	WONDER IA-7	Air	Carbon Tetrachloride		0.44		0.19	0.19	ug/m3
Q2750-06	WONDER IA-7	Air	Chloroform		2.78		0.49	2.44	ug/m3
Q2750-06	WONDER IA-7	Air	Benzene		0.86	J	0.26	1.60	ug/m3
Q2750-06	WONDER IA-7	Air	Toluene		2.60		0.60	1.88	ug/m3
Q2750-06	WONDER IA-7	Air	Styrene		0.68	J	0.68	2.13	ug/m3
Q2750-06	WONDER IA-7	Air	Hexane		6.70		0.56	1.76	ug/m3
			Total Voc :		273				
Q2750-06	WONDER IA-7	Air	.alpha.-Pinene	*	4.20	J	0	0	ppbv
Q2750-06	WONDER IA-7	Air	D-Limonene	*	20.6	J	0	0	ppbv
Q2750-06	WONDER IA-7	Air	3-Carene	*	8.60	J	0	0	ppbv
Q2750-06	WONDER IA-7	Air	Bicyclo[3.1.1]heptane, 6,6-dim	*	5.80	J	0	0	ppbv
Q2750-06	WONDER IA-7	Air	Chlorodifluoromethane	*	52.6	J	0.12	0.50	ppbv
Q2750-06	WONDER IA-7	Air	Ethanol	*	5900	J	0.32	0.50	ppbv
Q2750-06	WONDER IA-7	Air	Ethyl Acetate	*	4.60	J	0.12	0.50	ppbv
Q2750-06	WONDER IA-7	Air	Propene	*	17.2	J	0.080	0.50	ppbv
Q2750-06	WONDER IA-7	Air	Isopropyl Alcohol	*	2100	J	0.23	0.50	ppbv
Q2750-06	WONDER IA-7	Air	p-Isopropyltoluene	*	0.56	J	0.19	0.50	ppbv
			Total Tics :		8110				
			Total Concentration:		8390				
Client ID:	**WONDER IA-7DL**								
Q2750-06DL	WONDER IA-7DL	Air	Acetone		380	D	8.55	23.8	ug/m3
Q2750-06DL	WONDER IA-7DL	Air	Methylene Chloride		24.3	JD	16.0	34.7	ug/m3
			Total Voc :		404				
			Total Concentration:		404				
Client ID:	**WONDER IA-8**								
Q2750-07	WONDER IA-8	Air	Dichlorodifluoromethane		2.92		0.54	2.47	ug/m3
Q2750-07	WONDER IA-8	Air	Chloromethane		1.34		0.21	1.03	ug/m3
Q2750-07	WONDER IA-8	Air	Tetrahydrofuran		1.09	J	0.24	1.47	ug/m3
Q2750-07	WONDER IA-8	Air	Trichlorofluoromethane		1.12	J	0.96	2.81	ug/m3
Q2750-07	WONDER IA-8	Air	Heptane		0.90	J	0.70	2.05	ug/m3
Q2750-07	WONDER IA-8	Air	Acetone		228	E	0.43	1.19	ug/m3
Q2750-07	WONDER IA-8	Air	Carbon Disulfide		7.79		0.25	1.56	ug/m3
Q2750-07	WONDER IA-8	Air	Methylene Chloride		7.99		0.80	1.74	ug/m3
Q2750-07	WONDER IA-8	Air	2-Butanone		3.83		0.18	1.47	ug/m3
Q2750-07	WONDER IA-8	Air	Carbon Tetrachloride		0.44		0.19	0.19	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q2750

Client: Matrix New World Engineering

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2750-07	WONDER IA-8	Air	Chloroform		2.69		0.49	2.44	ug/m3
Q2750-07	WONDER IA-8	Air	Benzene		0.96	J	0.26	1.60	ug/m3
Q2750-07	WONDER IA-8	Air	Toluene		2.49		0.60	1.88	ug/m3
Q2750-07	WONDER IA-8	Air	Styrene		0.68	J	0.68	2.13	ug/m3
Q2750-07	WONDER IA-8	Air	Naphthalene		2.41		0.050	0.52	ug/m3
Q2750-07	WONDER IA-8	Air	Hexane		7.75		0.56	1.76	ug/m3
			Total Voc :		272				
Q2750-07	WONDER IA-8	Air	.alpha.-Pinene	*	3.90	J	0	0	ppbv
Q2750-07	WONDER IA-8	Air	D-Limonene	*	21.2	J	0	0	ppbv
Q2750-07	WONDER IA-8	Air	3-Carene	*	8.50	J	0	0	ppbv
Q2750-07	WONDER IA-8	Air	Bicyclo[3.1.1]heptane, 6,6-dim	*	5.40	J	0	0	ppbv
Q2750-07	WONDER IA-8	Air	Chlorodifluoromethane	*	48.2	J	0.12	0.50	ppbv
Q2750-07	WONDER IA-8	Air	Ethanol	*	5000	J	0.32	0.50	ppbv
Q2750-07	WONDER IA-8	Air	Ethyl Acetate	*	4.00	J	0.12	0.50	ppbv
Q2750-07	WONDER IA-8	Air	Propene	*	15.2	J	0.080	0.50	ppbv
Q2750-07	WONDER IA-8	Air	Isopropyl Alcohol	*	1800	J	0.23	0.50	ppbv
Q2750-07	WONDER IA-8	Air	p-Isopropyltoluene	*	0.59	J	0.19	0.50	ppbv
			Total Tics :		6910				
			Total Concentration:		7180				
Client ID:	**WONDER IA-8DL**								
Q2750-07DL	WONDER IA-8DL	Air	Acetone		356	D	8.55	23.8	ug/m3
Q2750-07DL	WONDER IA-8DL	Air	Methylene Chloride		22.2	JD	16.0	34.7	ug/m3
			Total Voc :		379				
			Total Concentration:		379				
Client ID:	**WONDER IA-9**								
Q2750-08	WONDER IA-9	Air	Dichlorodifluoromethane		2.82		0.54	2.47	ug/m3
Q2750-08	WONDER IA-9	Air	Chloromethane		1.34		0.21	1.03	ug/m3
Q2750-08	WONDER IA-9	Air	Tetrahydrofuran		0.91	J	0.24	1.47	ug/m3
Q2750-08	WONDER IA-9	Air	Trichlorofluoromethane		1.29	J	0.96	2.81	ug/m3
Q2750-08	WONDER IA-9	Air	Heptane		0.74	J	0.70	2.05	ug/m3
Q2750-08	WONDER IA-9	Air	Acetone		227	E	0.43	1.19	ug/m3
Q2750-08	WONDER IA-9	Air	Carbon Disulfide		6.23		0.25	1.56	ug/m3
Q2750-08	WONDER IA-9	Air	Methylene Chloride		2.78		0.80	1.74	ug/m3
Q2750-08	WONDER IA-9	Air	2-Butanone		2.36		0.18	1.47	ug/m3
Q2750-08	WONDER IA-9	Air	Carbon Tetrachloride		0.38		0.19	0.19	ug/m3
Q2750-08	WONDER IA-9	Air	Chloroform		2.54		0.49	2.44	ug/m3
Q2750-08	WONDER IA-9	Air	Benzene		0.89	J	0.26	1.60	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q2750

Client: Matrix New World Engineering

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2750-08	WONDER IA-9	Air	Toluene		2.11		0.60	1.88	ug/m3
Q2750-08	WONDER IA-9	Air	Styrene		0.68	J	0.68	2.13	ug/m3
Q2750-08	WONDER IA-9	Air	Hexane		3.88		0.56	1.76	ug/m3
			Total Voc :		256				
Q2750-08	WONDER IA-9	Air	.beta.-Pinene	*	4.00	J	0	0	ppbv
Q2750-08	WONDER IA-9	Air	D-Limonene	*	16.5	J	0	0	ppbv
Q2750-08	WONDER IA-9	Air	11H-Dibenzo[b,e][1,4]diazepin	*	3.30	J	0	0	ppbv
Q2750-08	WONDER IA-9	Air	3-Carene	*	6.40	J	0	0	ppbv
Q2750-08	WONDER IA-9	Air	Chlorodifluoromethane	*	41.9	J	0.12	0.50	ppbv
Q2750-08	WONDER IA-9	Air	Ethanol	*	3900	J	0.32	0.50	ppbv
Q2750-08	WONDER IA-9	Air	Ethyl Acetate	*	3.20	J	0.12	0.50	ppbv
Q2750-08	WONDER IA-9	Air	Propene	*	13.2	J	0.080	0.50	ppbv
Q2750-08	WONDER IA-9	Air	Isopropyl Alcohol	*	1600	J	0.23	0.50	ppbv
Q2750-08	WONDER IA-9	Air	p-Isopropyltoluene	*	0.41	J	0.19	0.50	ppbv
			Total Tics :		5590				
			Total Concentration:		5840				
Client ID:	**WONDER IA-9DL**								
Q2750-08DL	WONDER IA-9DL	Air	Acetone		356	D	8.55	23.8	ug/m3
Q2750-08DL	WONDER IA-9DL	Air	Methylene Chloride		19.4	JD	16.0	34.7	ug/m3
			Total Voc :		376				
			Total Concentration:		376				
Client ID:	**WONDER IA-10**								
Q2750-09	WONDER IA-10	Air	Dichlorodifluoromethane		2.52		0.54	2.47	ug/m3
Q2750-09	WONDER IA-10	Air	Chloromethane		1.86		0.21	1.03	ug/m3
Q2750-09	WONDER IA-10	Air	Tetrahydrofuran		0.47	J	0.24	1.47	ug/m3
Q2750-09	WONDER IA-10	Air	Trichlorofluoromethane		1.40	J	0.96	2.81	ug/m3
Q2750-09	WONDER IA-10	Air	Heptane		1.07	J	0.70	2.05	ug/m3
Q2750-09	WONDER IA-10	Air	Acetone		34.9		0.43	1.19	ug/m3
Q2750-09	WONDER IA-10	Air	Methylene Chloride		4.52		0.80	1.74	ug/m3
Q2750-09	WONDER IA-10	Air	2-Butanone		3.83		0.18	1.47	ug/m3
Q2750-09	WONDER IA-10	Air	Carbon Tetrachloride		0.50		0.19	0.19	ug/m3
Q2750-09	WONDER IA-10	Air	Chloroform		0.54	J	0.49	2.44	ug/m3
Q2750-09	WONDER IA-10	Air	Benzene		1.02	J	0.26	1.60	ug/m3
Q2750-09	WONDER IA-10	Air	Toluene		1.24	J	0.60	1.88	ug/m3
Q2750-09	WONDER IA-10	Air	Naphthalene		2.41		0.050	0.52	ug/m3
Q2750-09	WONDER IA-10	Air	Hexane		7.40		0.56	1.76	ug/m3
			Total Voc :		63.7				

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

Hit Summary Sheet
SW-846

SDG No.: Q2750

Client: Matrix New World Engineering

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2750-09	WONDER IA-10	Air	Chlorodifluoromethane	*	8.00	J	0.12	0.50	ppbv
Q2750-09	WONDER IA-10	Air	Ethanol	*	1000	J	0.32	0.50	ppbv
Q2750-09	WONDER IA-10	Air	Propene	*	69.8	J	0.080	0.50	ppbv
Q2750-09	WONDER IA-10	Air	Isopropyl Alcohol	*	260	J	0.23	0.50	ppbv
Q2750-09	WONDER IA-10	Air	p-Isopropyltoluene	*	0.29	J	0.19	0.50	ppbv
			Total Tics :		1340				
			Total Concentration:		1400				
Client ID:	**WONDER IA-11**								
Q2750-10	WONDER IA-11	Air	Dichlorodifluoromethane		2.47		0.54	2.47	ug/m3
Q2750-10	WONDER IA-11	Air	Chloromethane		1.14		0.21	1.03	ug/m3
Q2750-10	WONDER IA-11	Air	Tetrahydrofuran		0.97	J	0.24	1.47	ug/m3
Q2750-10	WONDER IA-11	Air	Trichlorofluoromethane		1.46	J	0.96	2.81	ug/m3
Q2750-10	WONDER IA-11	Air	tert-Butyl alcohol		1.12	J	0.49	1.52	ug/m3
Q2750-10	WONDER IA-11	Air	Acetone		74.3	E	0.43	1.19	ug/m3
Q2750-10	WONDER IA-11	Air	Carbon Disulfide		3.11		0.25	1.56	ug/m3
Q2750-10	WONDER IA-11	Air	Methylene Chloride		4.86		0.80	1.74	ug/m3
Q2750-10	WONDER IA-11	Air	2-Butanone		1.68		0.18	1.47	ug/m3
Q2750-10	WONDER IA-11	Air	Carbon Tetrachloride		0.44		0.19	0.19	ug/m3
Q2750-10	WONDER IA-11	Air	Chloroform		0.88	J	0.49	2.44	ug/m3
Q2750-10	WONDER IA-11	Air	Benzene		0.77	J	0.26	1.60	ug/m3
Q2750-10	WONDER IA-11	Air	Toluene		2.34		0.60	1.88	ug/m3
Q2750-10	WONDER IA-11	Air	Hexane		20.4		0.56	1.76	ug/m3
			Total Voc :		116				
Q2750-10	WONDER IA-11	Air	Chlorodifluoromethane	*	17.4	J	0.12	0.50	ppbv
Q2750-10	WONDER IA-11	Air	Ethanol	*	2100	J	0.32	0.50	ppbv
Q2750-10	WONDER IA-11	Air	Propene	*	3.70	J	0.080	0.50	ppbv
Q2750-10	WONDER IA-11	Air	Isopropyl Alcohol	*	640	J	0.23	0.50	ppbv
			Total Tics :		2760				
			Total Concentration:		2880				
Client ID:	**WONDER IA-11DL**								
Q2750-10DL	WONDER IA-11DI	Air	Acetone		74.8	D	4.28	11.9	ug/m3
Q2750-10DL	WONDER IA-11DI	Air	Hexane		15.2	JD	5.64	17.6	ug/m3
			Total Voc :		90.0				
			Total Concentration:		90.0				

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-2 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-01 **Target Analyts :** Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.53		2.62		
Chloromethane	74-87-3	50.49	7.7		15.9		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.56		1.65		
Trichlorofluoromethane	75-69-4	137.4	0.2	J	1.12		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.26	J	1.07		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	94.8	E	225		
Carbon Disulfide	75-15-0	76.14	3.6		11.2		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	2		6.95		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	1.9		5.6		
Carbon Tetrachloride	56-23-5	153.8	0.1		0.63		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.82		4		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.31	J	0.99		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.89		3.35		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-2 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-01 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.04		0.27		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.2	J	0.85		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.51		3.79		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.54		2.83		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	1.9		6.7		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	U	0.57		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-2DL **Analysis Date :** 08/05/25

Laboratory Id Number : Q2750-01DL **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	8.4	JD	17.4		
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	160	D	380		
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	7.1	JD	24.7		
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	1.1	UD	3.24		
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	0.48	UD	2.58		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-2DL **Analysis Date :** 08/05/25

Laboratory Id Number : Q2750-01DL **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	0.3	UD	2.03		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-3 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-02 **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	0.55		2.72		
Chloromethane	74-87-3	50.49	0.64		1.32		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.37	J	1.09		
Trichlorofluoromethane	75-69-4	137.4	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.17	U	0.7		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	98	E	232		
Carbon Disulfide	75-15-0	76.14	3.4		10.6		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	1.6		5.56		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	1.1		3.24		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.56		2.73		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.28	J	0.89		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.8		3.01		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-3 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-02 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.23	J	0.98		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.48		2.52		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	1.7		5.99		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	J	0.57		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-3DL **Analysis Date :** 08/05/25

Laboratory Id Number : Q2750-02DL **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	170	D	403		
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	5.6	JD	19.4		
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	1.1	UD	3.24		
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	0.48	UD	2.58		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-3DL **Analysis Date :** 08/05/25

Laboratory Id Number : Q2750-02DL **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	0.3	UD	2.03		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-4 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-03 **Target Analyts :** Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.54		2.67		
Chloromethane	74-87-3	50.49	0.68		1.4		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.33	J	0.97		
Trichlorofluoromethane	75-69-4	137.4	0.2	J	1.12		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.17	U	0.7		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	96.1	E	228		
Carbon Disulfide	75-15-0	76.14	3.3		10.3		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	1.9		6.6		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.94		2.77		
Carbon Tetrachloride	56-23-5	153.8	0.06		0.38		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.59		2.88		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.26	J	0.83		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.76		2.86		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-4 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-03 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.18	J	0.77		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.46		2.41		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	1.9		6.7		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.15	J	0.61		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-4DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-03DL **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	160	D	380		
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	7	JD	24.3		
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	1.1	UD	3.24		
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	0.48	UD	2.58		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-4DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-03DL **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	0.3	UD	2.03		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-5 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-04 **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	0.54		2.67		
Chloromethane	74-87-3	50.49	0.67		1.38		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.08	U	0.24		
Trichlorofluoromethane	75-69-4	137.4	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.17	U	0.7		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	96	E	228		
Carbon Disulfide	75-15-0	76.14	3.2		9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	8.2		28.5		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	1.2		3.54		
Carbon Tetrachloride	56-23-5	153.8	0.06		0.38		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.55		2.69		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.26	J	0.83		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.82		3.09		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-5 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-04 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.2	J	0.85		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	J	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
Naphthalene	91-20-3	128.17	0.48		2.52		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	6.6		23.3		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.15	J	0.61		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-5DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-04DL **Target Analyts :** Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	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	130	D	308		
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	13.7	D	47.6		
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	1.1	UD	3.24		
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	0.48	UD	2.58		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-5DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-04DL **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	0.3	UD	2.03		
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	4	JD	14.1		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-6 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-05 **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	0.57		2.82		
Chloromethane	74-87-3	50.49	0.69		1.42		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.08	U	0.24		
Trichlorofluoromethane	75-69-4	137.4	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.17	U	0.7		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	97.8	E	232		
Carbon Disulfide	75-15-0	76.14	3		9.34		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	1.9		6.6		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	1.1		3.24		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.57		2.78		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.28	J	0.89		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.92		3.47		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-6 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-05 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.23	J	0.98		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.46		2.41		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	1.7		5.99		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	J	0.57		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-6DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-05DL **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	170	D	403		
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	5.5	JD	19.1		
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	1.1	UD	3.24		
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	0.48	UD	2.58		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-6DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-05DL **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	0.3	UD	2.03		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-7 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-06 **Target Analyts :** Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.58		2.87		
Chloromethane	74-87-3	50.49	0.74		1.53		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.08	U	0.24		
Trichlorofluoromethane	75-69-4	137.4	0.22	J	1.24		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.17	U	0.7		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	98.7	E	234		
Carbon Disulfide	75-15-0	76.14	2.8		8.72		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	2.2		7.64		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.98		2.89		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.57		2.78		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.27	J	0.86		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.69		2.6		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-7 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-06 **Target Analyts :** Air Results

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

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-7DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-06DL **Target Analyts :** Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	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	160	D	380		
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	7	JD	24.3		
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	1.1	UD	3.24		
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	0.48	UD	2.58		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-7DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-06DL **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	0.3	UD	2.03		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-8 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-07 **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	0.59		2.92		
Chloromethane	74-87-3	50.49	0.65		1.34		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.37	J	1.09		
Trichlorofluoromethane	75-69-4	137.4	0.2	J	1.12		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.22	J	0.9		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	95.9	E	227		
Carbon Disulfide	75-15-0	76.14	2.5		7.79		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	2.3		7.99		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	1.3		3.83		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.55		2.69		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.3	J	0.96		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.66		2.49		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-8 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-07 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.16	J	0.68		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.46		2.41		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	2.2		7.75		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	U	0.57		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-8DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-07DL **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	150	D	356		
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	6.4	JD	22.2		
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	1.1	UD	3.24		
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	0.48	UD	2.58		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-8DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-07DL **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	0.3	UD	2.03		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-9 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-08 **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	0.57		2.82		
Chloromethane	74-87-3	50.49	0.65		1.34		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.31	J	0.91		
Trichlorofluoromethane	75-69-4	137.4	0.23	J	1.29		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.18	J	0.74		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	95.6	E	227		
Carbon Disulfide	75-15-0	76.14	2		6.23		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	0.8		2.78		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.8		2.36		
Carbon Tetrachloride	56-23-5	153.8	0.06		0.38		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.52		2.54		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.28	J	0.89		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.56		2.11		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-9 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-08 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.16	J	0.68		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
Naphthalene	91-20-3	128.17	0.01	U	0.05		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	1.1		3.88		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	U	0.57		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-9DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-08DL **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	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	150	D	356		
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	5.6	JD	19.4		
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	1.1	UD	3.24		
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	0.48	UD	2.58		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-9DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-08DL **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	0.3	UD	2.03		
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		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-10 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-09 **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	0.51		2.52		
Chloromethane	74-87-3	50.49	0.9		1.86		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.16	J	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.25	J	1.4		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.26	J	1.07		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	14.7		34.9		
Carbon Disulfide	75-15-0	76.14	0.08	U	0.25		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	1.3		4.52		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	1.3		3.83		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.11	J	0.54		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.32	J	1.02		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.33	J	1.24		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-10 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-09 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.16	U	0.68		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.46		2.41		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	2.1		7.4		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	U	0.57		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-11 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-10 **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	0.5		2.47		
Chloromethane	74-87-3	50.49	0.55		1.14		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.33	J	0.97		
Trichlorofluoromethane	75-69-4	137.4	0.26	J	1.46		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.37	J	1.12		
Heptane	142-82-5	100.2	0.17	U	0.7		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	31.3	E	74.4		
Carbon Disulfide	75-15-0	76.14	1		3.11		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	1.4		4.86		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.57		1.68		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.18	J	0.88		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.24	J	0.77		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.62		2.34		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-11 **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-10 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.16	U	0.68		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.01	U	0.05		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	5.8		20.4		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	U	0.57		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-11DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-10DL **Target Analyts :** Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1.1	UD	5.44		
Chloromethane	74-87-3	50.49	0.98	UD	2.02		
Vinyl Chloride	75-01-4	62.5	0.25	UD	0.64		
Bromomethane	74-83-9	94.94	0.77	UD	2.99		
Chloroethane	75-00-3	64.52	1.5	UD	3.96		
Tetrahydrofuran	109-99-9	72.11	0.8	UD	2.36		
Trichlorofluoromethane	75-69-4	137.4	1.7	UD	9.55		
Dichlorotetrafluoroethane	76-14-2	170.9	1.5	UD	10.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.4	UD	10.7		
tert-Butyl alcohol	75-65-0	74.12	1.6	UD	4.85		
Heptane	142-82-5	100.2	1.7	UD	6.97		
1,1-Dichloroethene	75-35-4	96.94	1.5	UD	5.95		
Acetone	67-64-1	58.08	31.5	D	74.8		
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	2.3	UD	7.99		
trans-1,2-Dichloroethene	156-60-5	96.94	1.2	UD	4.76		
1,1-Dichloroethane	75-34-3	98.96	1.3	UD	5.26		
Cyclohexane	110-82-7	84.16	2.2	UD	7.57		
2-Butanone	78-93-3	72.11	0.56	UD	1.65		
Carbon Tetrachloride	56-23-5	153.8	0.25	UD	1.57		
cis-1,2-Dichloroethene	156-59-2	96.94	0.99	UD	3.93		
Chloroform	67-66-3	119.4	0.96	UD	4.69		
1,1,1-Trichloroethane	71-55-6	133.4	0.16	UD	0.87		
2,2,4-Trimethylpentane	540-84-1	114.2	1.4	UD	6.54		
Benzene	71-43-2	78.11	0.79	UD	2.52		
1,2-Dichloroethane	107-06-2	98.96	0.93	UD	3.76		
Trichloroethene	79-01-6	131.4	0.24	UD	1.29		
1,2-Dichloropropane	78-87-5	113	1.3	UD	6.01		
Bromodichloromethane	75-27-4	163.8	0.63	UD	4.22		
4-Methyl-2-Pentanone	108-10-1	100.2	0.97	UD	3.98		
Toluene	108-88-3	92.14	1.6	UD	6.03		
t-1,3-Dichloropropene	10061-02-6	111	1.5	UD	6.81		
cis-1,3-Dichloropropene	10061-01-5	111	1.1	UD	4.99		
1,1,2-Trichloroethane	79-00-5	133.4	0.81	UD	4.42		

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

Project : Wonder Group Inc. Emergency IH Assess - 25-0580 **Sampling Date :** 08/01/25

Field Id Number : WONDER IA-11DL **Analysis Date :** 08/04/25

Laboratory Id Number : Q2750-10DL **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.85	UD	7.24		
1,2-Dibromoethane	106-93-4	187.9	0.85	UD	6.53		
Tetrachloroethene	127-18-4	165.8	0.15	UD	1.02		
Chlorobenzene	108-90-7	112.6	0.77	UD	3.55		
Ethyl Benzene	100-41-4	106.2	1.9	UD	8.25		
m/p-Xylene	179601-23-1	106.2	4.1	UD	17.8		
o-Xylene	95-47-6	106.2	2.1	UD	9.12		
Styrene	100-42-5	104.1	1.6	UD	6.81		
Bromoform	75-25-2	252.8	0.48	UD	4.96		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.18	UD	1.24		
2-Chlorotoluene	95-49-8	126.6	1.7	UD	8.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.8	UD	8.85		
1,2,4-Trimethylbenzene	95-63-6	120.2	1.8	UD	8.85		
1,3-Dichlorobenzene	541-73-1	147	0.54	UD	3.25		
1,4-Dichlorobenzene	106-46-7	147	1.3	UD	7.82		
1,2-Dichlorobenzene	95-50-1	147	1.3	UD	7.82		
1,2,4-Trichlorobenzene	120-82-1	181.5	2.1	UD	15.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.3	UD	13.9		
Naphthalene	91-20-3	128.17	0.13	UD	0.68		
1,3-Butadiene	106-99-0	54.09	0.51	UD	1.13		
4-Ethyltoluene	622-96-8	120.2	2.1	UD	10.3		
Hexane	110-54-3	86.17	4.3	JD	15.2		
Allyl Chloride	107-05-1	76.53	1.1	UD	3.44		
1,4-Dioxane	123-91-1	88.12	2.2	UD	7.93		
Methyl Methacrylate	80-62-6	100.117	1.4	UD	5.73		

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

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

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

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

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

QC SUMMARY

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

Surrogate Summary

SDG No.: Q2750

Client: Matrix New World Engineering

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2750-01	WONDER IA-2	1-Bromo-4-Fluorobenzene	10	10.8	108		70 (65)	130 (135)
Q2750-01DL	WONDER IA-2DL	1-Bromo-4-Fluorobenzene	10	9.80	98		70 (65)	130 (135)
Q2750-01DUP	WONDER IA-2DUP	1-Bromo-4-Fluorobenzene	10	10.6	106		70 (65)	130 (135)
Q2750-02	WONDER IA-3	1-Bromo-4-Fluorobenzene	10	10.5	105		70 (65)	130 (135)
Q2750-02DL	WONDER IA-3DL	1-Bromo-4-Fluorobenzene	10	9.82	98		70 (65)	130 (135)
Q2750-03	WONDER IA-4	1-Bromo-4-Fluorobenzene	10	10.6	106		70 (65)	130 (135)
Q2750-03DL	WONDER IA-4DL	1-Bromo-4-Fluorobenzene	10	9.57	96		70 (65)	130 (135)
Q2750-04	WONDER IA-5	1-Bromo-4-Fluorobenzene	10	10.6	106		70 (65)	130 (135)
Q2750-04DL	WONDER IA-5DL	1-Bromo-4-Fluorobenzene	10	9.58	96		70 (65)	130 (135)
Q2750-04DUP	WONDER IA-5DUP	1-Bromo-4-Fluorobenzene	10	10.9	109		70 (65)	130 (135)
Q2750-05	WONDER IA-6	1-Bromo-4-Fluorobenzene	10	10.8	108		70 (65)	130 (135)
Q2750-05DL	WONDER IA-6DL	1-Bromo-4-Fluorobenzene	10	9.76	98		70 (65)	130 (135)
Q2750-06	WONDER IA-7	1-Bromo-4-Fluorobenzene	10	10.5	105		70 (65)	130 (135)
Q2750-06DL	WONDER IA-7DL	1-Bromo-4-Fluorobenzene	10	9.88	99		70 (65)	130 (135)
Q2750-07	WONDER IA-8	1-Bromo-4-Fluorobenzene	10	10.7	106		70 (65)	130 (135)
Q2750-07DL	WONDER IA-8DL	1-Bromo-4-Fluorobenzene	10	9.62	96		70 (65)	130 (135)
Q2750-08	WONDER IA-9	1-Bromo-4-Fluorobenzene	10	10.4	104		70 (65)	130 (135)
Q2750-08DL	WONDER IA-9DL	1-Bromo-4-Fluorobenzene	10	9.69	97		70 (65)	130 (135)
Q2750-09	WONDER IA-10	1-Bromo-4-Fluorobenzene	10	10.1	101		70 (65)	130 (135)
Q2750-10	WONDER IA-11	1-Bromo-4-Fluorobenzene	10	9.99	100		70 (65)	130 (135)
Q2750-10DL	WONDER IA-11DL	1-Bromo-4-Fluorobenzene	10	9.34	93		70 (65)	130 (135)
VL0804ABL01	VL0804ABL01	1-Bromo-4-Fluorobenzene	10	9.68	97		70 (65)	130 (135)
VL0804ABS01	VL0804ABS01	1-Bromo-4-Fluorobenzene	10	10.2	102		70 (65)	130 (135)

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2750 **Analytical Method:** SWTO-15

Client: Matrix New World Engineering **Datafile :** VL042798.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0804ABS01	Dichlorodifluoromethane	10	10.4	ppbv	104			40 (70)	160 (130)	
	Chloromethane	10	10.2	ppbv	102			40 (70)	160 (130)	
	Vinyl Chloride	10	9.00	ppbv	90			70 (70)	130 (130)	
	Bromomethane	10	10.4	ppbv	104			40 (70)	160 (130)	
	Chloroethane	10	9.60	ppbv	96			40 (70)	160 (130)	
	Tetrahydrofuran	10	11.6	ppbv	116			70 (70)	130 (130)	
	Trichlorofluoromethane	10	10.1	ppbv	101			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	10.2	ppbv	102			70 (70)	130 (130)	
	Dichlorotetrafluoethane	10	10.1	ppbv	101			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	9.80	ppbv	98			70 (70)	130 (130)	
	Heptane	10	11.0	ppbv	110			70 (70)	130 (130)	
	1,1-Dichloroethene	10	9.90	ppbv	99			70 (70)	130 (130)	
	Acetone	10	8.30	ppbv	83			40 (70)	160 (130)	
	Carbon disulfide	10	11.0	ppbv	110			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	9.00	ppbv	90			70 (70)	130 (130)	
	Methylene Chloride	10	9.30	ppbv	93			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	10.5	ppbv	105			70 (70)	130 (130)	
	2-Butanone	10	10.9	ppbv	109			40 (70)	160 (130)	
	Carbon Tetrachloride	10	11.2	ppbv	112			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	10.5	ppbv	105			70 (70)	130 (130)	
	Chloroform	10	10.8	ppbv	108			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	10.1	ppbv	101			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	11.4	ppbv	114			70 (70)	130 (130)	
	Benzene	10	11.0	ppbv	110			70 (70)	130 (130)	
	1,2-Dichloroethane	10	10.9	ppbv	109			70 (70)	130 (130)	
	Trichloroethene	10	10.2	ppbv	102			70 (70)	130 (130)	
	1,2-Dichloropropane	10	10.8	ppbv	108			70 (70)	130 (130)	
	Bromodichloromethane	10	11.5	ppbv	115			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	11.6	ppbv	116			40 (70)	160 (130)	
	Toluene	10	11.2	ppbv	112			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	11.6	ppbv	116			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	11.5	ppbv	115			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	10.9	ppbv	109			70 (70)	130 (130)	
	Dibromochloromethane	10	11.6	ppbv	116			70 (70)	130 (130)	
	1,2-Dibromoethane	10	11.0	ppbv	110			70 (70)	130 (130)	
	Tetrachloroethene	10	9.70	ppbv	97			70 (70)	130 (130)	
	Chlorobenzene	10	10.9	ppbv	109			70 (70)	130 (130)	
	Ethyl Benzene	10	11.5	ppbv	115			70 (70)	130 (130)	
	m/p-Xylene	20	23.5	ppbv	117			70 (70)	130 (130)	
	o-Xylene	10	11.6	ppbv	116			70 (70)	130 (130)	
	Styrene	10	11.7	ppbv	117			70 (70)	130 (130)	
	Bromoform	10	11.7	ppbv	117			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	10.7	ppbv	107			70 (70)	130 (130)	
	2-Chlorotoluene	10	11.4	ppbv	114			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	12.1	ppbv	121			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	12.3	ppbv	123			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.: Q2750 **Analytical Method:** SWTO-15

Client: Matrix New World Engineering **Datafile :** VL042798.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0804ABS01	1,3-Dichlorobenzene	10	11.5	ppbv	115			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	11.6	ppbv	116			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	11.2	ppbv	112			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	11.1	ppbv	111			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	9.90	ppbv	99			70 (70)	130 (130)	
	Naphthalene	10	10.8	ppbv	108			40 (70)	160 (130)	
	1,3-Butadiene	10	10.0	ppbv	100			70 (70)	130 (130)	
	4-Ethyltoluene	10	12.1	ppbv	121			70 (70)	130 (130)	
	Hexane	10	10.6	ppbv	106			70 (70)	130 (130)	
	Allyl Chloride	10	10.7	ppbv	107			70 (70)	130 (130)	
	1,4-Dioxane	10	10.7	ppbv	107			40 (70)	160 (130)	
	Methyl methacrylate	10	11.5	ppbv	115			70 (70)	130 (130)	

( ) = LABORATORY INHOUSE LIMIT

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

Duplicate Sample Summary

Lab Sample Id :	Q2750-01DUP		Q2750-01	
Client Id :	WONDER IA-2DUP		WONDER IA-2	
DF :	1		1	
Datafile :	VL042800.D		VL042799.D	
Anal Date & Time :	08/04/2025	12:23	08/04/2025	11:49

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0.45	0.51	12.5
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	1.6	1.9	17.1
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	95.8	94.8	1
Allyl Chloride	0	0	0
Benzene	0.27	0.31	13.8
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	3.4	3.6	5.7
Carbon Tetrachloride	0.11	0.1	9.5

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

Duplicate Sample Summary

Lab Sample Id :	Q2750-01DUP		Q2750-01	
Client Id :	WONDER IA-2DUP		WONDER IA-2	
DF :	1		1	
Datafile :	VL042800.D		VL042799.D	
Anal Date & Time :	08/04/2025	12:23	08/04/2025	11:49

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0.81	0.82	1.2
Chloromethane	7.7	7.7	0
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.55	0.53	3.7
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0.26	0.26	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	1.9	1.9	0
m/p-Xylene	0	0	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	2.2	2	9.5
Naphthalene	0.48	0.54	11.8
o-Xylene	0	0	0
Styrene	0.22	0.2	9.5
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.03	0.04	28.6 *
Tetrahydrofuran	0.56	0.56	0
Toluene	0.83	0.89	7
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.2	0.2	0
Vinyl Chloride	0	0	0

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

Duplicate Sample Summary

Lab Sample Id :	Q2750-04DUP		Q2750-04	
Client Id :	WONDER IA-5DUP		WONDER IA-5	
DF :	1		1	
Datafile :	VL042814.D		VL042803.D	
Anal Date & Time :	08/04/2025	20:15	08/04/2025	14:03

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0.25	0.18	32.6 *
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	1	1.2	18.2
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	91	96	5.3
Allyl Chloride	0	0	0
Benzene	0.26	0.26	0
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	2.6	3.2	20.7 *
Carbon Tetrachloride	0.07	0.06	15.4

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

Duplicate Sample Summary

Lab Sample Id :	Q2750-04DUP		Q2750-04	
Client Id :	WONDER IA-5DUP		WONDER IA-5	
DF :	1		1	
Datafile :	VL042814.D		VL042803.D	
Anal Date & Time :	08/04/2025	20:15	08/04/2025	14:03

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0.54	0.55	1.8
Chloromethane	0.63	0.67	6.2
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	0.54	7.1
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	5.2	6.6	23.7 *
m/p-Xylene	0	0	0
Methyl Methacrylate	0	0.15	200 *
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	7.5	8.2	8.9
Naphthalene	0.47	0.48	2.1
o-Xylene	0	0	0
Styrene	0	0.2	200 *
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0	0	0
Tetrahydrofuran	0	0	0
Toluene	0.62	0.82	27.8 *
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.21	0.21	0
Vinyl Chloride	0	0	0

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VL0804ABL01

Lab Name: Alliance | Contract: MATR02

Lab Code: ACE | SDG NO.: Q2750

Lab File ID: VL042797.D | Lab Sample ID: VL0804ABL01

Date Analyzed: 08/04/2025 | Time Analyzed: 10:15

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
VL0804ABS01	VL0804ABS01	VL042798.D	08/04/2025
WONDER IA-2	Q2750-01	VL042799.D	08/04/2025
WONDER IA-2DUP	Q2750-01DUP	VL042800.D	08/04/2025
WONDER IA-3	Q2750-02	VL042801.D	08/04/2025
WONDER IA-4	Q2750-03	VL042802.D	08/04/2025
WONDER IA-5	Q2750-04	VL042803.D	08/04/2025
WONDER IA-6	Q2750-05	VL042804.D	08/04/2025
WONDER IA-7	Q2750-06	VL042805.D	08/04/2025
WONDER IA-8	Q2750-07	VL042806.D	08/04/2025
WONDER IA-9	Q2750-08	VL042807.D	08/04/2025
WONDER IA-10	Q2750-09	VL042808.D	08/04/2025
WONDER IA-11	Q2750-10	VL042809.D	08/04/2025
WONDER IA-11DL	Q2750-10DL	VL042810.D	08/04/2025
WONDER IA-4DL	Q2750-03DL	VL042813.D	08/04/2025
WONDER IA-5DUP	Q2750-04DUP	VL042814.D	08/04/2025
WONDER IA-5DL	Q2750-04DL	VL042815.D	08/04/2025
WONDER IA-6DL	Q2750-05DL	VL042816.D	08/04/2025
WONDER IA-7DL	Q2750-06DL	VL042817.D	08/04/2025
WONDER IA-8DL	Q2750-07DL	VL042818.D	08/04/2025
WONDER IA-9DL	Q2750-08DL	VL042819.D	08/04/2025
WONDER IA-2DL	Q2750-01DL	VL042821.D	08/05/2025
WONDER IA-3DL	Q2750-02DL	VL042822.D	08/05/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: MATR02

Lab Code: ACE | SDG NO.: Q2750

Lab File ID: VL042746.D | BFB Injection Date: 07/23/2025

Instrument ID: MSVOA_L | BFB Injection Time: 08:00

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	24.9
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	6.8
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 120.0% of mass 95	65.3
175	4.0 - 9.0% of mass 174	5.2 (8) 1
176	93.0 - 101.0% of mass 174	64.6 (99) 1
177	5.0 - 9.0% of mass 176	4.4 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042747.D	07/23/2025	08:58
VSTDICC002	VSTDICC002	VL042748.D	07/23/2025	09:34
VSTDICC001	VSTDICC001	VL042749.D	07/23/2025	10:08
VSTDICC0.5	VSTDICC0.5	VL042750.D	07/23/2025	10:42
VSTDICC0.03	VSTDICC0.03	VL042752.D	07/23/2025	11:50
VSTDICC015	VSTDICC015	VL042753.D	07/23/2025	12:26
VSTDICC0.1	VSTDICC0.1	VL042754.D	07/23/2025	13:00

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: MATR02

Lab Code: ACE | SDG NO.: Q2750

Lab File ID: VL042795.D | BFB Injection Date: 08/04/2025

Instrument ID: MSVOA_L | BFB Injection Time: 07:40

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	24.8
75	30.0 - 66.0% of mass 95	57.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 120.0% of mass 95	66.8
175	4.0 - 9.0% of mass 174	5.1 (7.7) 1
176	93.0 - 101.0% of mass 174	63.3 (94.6) 1
177	5.0 - 9.0% of mass 176	4.4 (7) 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	VL042796.D	08/04/2025	09:31
VL0804ABL01	VL0804ABL01	VL042797.D	08/04/2025	10:15
VL0804ABS01	VL0804ABS01	VL042798.D	08/04/2025	10:58
WONDER IA-2	Q2750-01	VL042799.D	08/04/2025	11:49
WONDER IA-2DUP	Q2750-01DUP	VL042800.D	08/04/2025	12:23
WONDER IA-3	Q2750-02	VL042801.D	08/04/2025	12:56
WONDER IA-4	Q2750-03	VL042802.D	08/04/2025	13:30
WONDER IA-5	Q2750-04	VL042803.D	08/04/2025	14:03
WONDER IA-6	Q2750-05	VL042804.D	08/04/2025	14:37
WONDER IA-7	Q2750-06	VL042805.D	08/04/2025	15:10
WONDER IA-8	Q2750-07	VL042806.D	08/04/2025	15:44
WONDER IA-9	Q2750-08	VL042807.D	08/04/2025	16:17
WONDER IA-10	Q2750-09	VL042808.D	08/04/2025	16:51
WONDER IA-11	Q2750-10	VL042809.D	08/04/2025	17:26
WONDER IA-11DL	Q2750-10DL	VL042810.D	08/04/2025	18:00
WONDER IA-4DL	Q2750-03DL	VL042813.D	08/04/2025	19:41
WONDER IA-5DUP	Q2750-04DUP	VL042814.D	08/04/2025	20:15
WONDER IA-5DL	Q2750-04DL	VL042815.D	08/04/2025	20:49

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: MATR02

Lab Code: ACE | SDG NO.: Q2750

Lab File ID: VL042795.D | BFB Injection Date: 08/04/2025

Instrument ID: MSVOA_L | BFB Injection Time: 07:40

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	24.8
75	30.0 - 66.0% of mass 95	57.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 120.0% of mass 95	66.8
175	4.0 - 9.0% of mass 174	5.1 (7.7) 1
176	93.0 - 101.0% of mass 174	63.3 (94.6) 1
177	5.0 - 9.0% of mass 176	4.4 (7) 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
WONDER IA-6DL	Q2750-05DL	VL042816.D	08/04/2025	21:23
WONDER IA-7DL	Q2750-06DL	VL042817.D	08/04/2025	21:57
WONDER IA-8DL	Q2750-07DL	VL042818.D	08/04/2025	22:31
WONDER IA-9DL	Q2750-08DL	VL042819.D	08/04/2025	23:04
WONDER IA-2DL	Q2750-01DL	VL042821.D	08/05/2025	00:12
WONDER IA-3DL	Q2750-02DL	VL042822.D	08/05/2025	00:45

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: MATR02

Lab Code: ACE SDG NO.: Q2750

Lab File ID: VL042796.D Date Analyzed: 08/04/2025

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	156307	2.78	426613	3.96	380017	8.88
UPPER LIMIT	218830	3.11	597258	4.29	532024	9.21
LOWER LIMIT	93784.2	2.45	255968	3.63	228010	8.55
EPA SAMPLE NO.						
WONDER IA-2	168040	2.79	466299	3.96	405142	8.88
WONDER IA-2DL	148113	2.78	371352	3.96	318755	8.88
WONDER IA-2DUP	171645	2.79	484996	3.95	419893	8.88
WONDER IA-3	166612	2.79	474561	3.96	413546	8.88
WONDER IA-3DL	146942	2.79	366115	3.96	315576	8.88
WONDER IA-4	166020	2.79	471810	3.96	410967	8.88
WONDER IA-4DL	146355	2.79	388590	3.96	332901	8.88
WONDER IA-5	164794	2.79	474917	3.96	410663	8.88
WONDER IA-5DL	151902	2.79	412340	3.96	344266	8.88
WONDER IA-5DUP	161216	2.79	428986	3.96	375205	8.88
WONDER IA-6	165635	2.79	469711	3.96	406040	8.89
WONDER IA-6DL	149392	2.79	386690	3.96	329987	8.88
WONDER IA-7	163694	2.79	467931	3.96	403577	8.89
WONDER IA-7DL	149464	2.79	378209	3.96	324186	8.88
WONDER IA-8	162780	2.79	464881	3.96	398366	8.89
WONDER IA-8DL	146776	2.78	381523	3.96	323135	8.88
WONDER IA-9	157969	2.79	449056	3.96	389304	8.89
WONDER IA-9DL	146039	2.78	370265	3.95	315446	8.88
WONDER IA-10	152020	2.78	420636	3.96	367596	8.88
WONDER IA-11	150888	2.79	424703	3.96	362958	8.88
WONDER IA-11DL	151986	2.78	405426	3.96	345370	8.88
VL0804ABL01	154751	2.79	421335	3.96	368498	8.89
VL0804ABS01	152949	2.79	424278	3.96	379714	8.88

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: MATR02

Lab Code: ACE SDG NO.: Q2750

Lab File ID: VL042796.D Date Analyzed: 08/04/2025

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	156307	2.78	426613	3.96	380017	8.88
UPPER LIMIT	218830	3.11	597258	4.29	532024	9.21
LOWER LIMIT	93784.2	2.45	255968	3.63	228010	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.

SAMPLE DATA

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-2	SDG No.:	Q2750
Lab Sample ID:	Q2750-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042799.D	1		08/04/25 11:49	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.53	2.62		0.54	2.47	ug/m3
74-87-3	Chloromethane	7.70	15.9		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.56	1.65		0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.20	1.12	J	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.26	1.07	J	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	94.8	225	E	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	3.60	11.2		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	2.00	6.95		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	1.90	5.60		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.10	0.63		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.82	4.00		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.31	0.99	J	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.89	3.35		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-2	SDG No.:	Q2750
Lab Sample ID:	Q2750-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042799.D	1		08/04/25 11:49	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.040	0.27		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.20	0.85	J	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.51	3.79		1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.54	2.83		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	1.90	6.70		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.8			70 (65) - 130 (135)	108%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	168000		2.787			
540-36-3	1,4-Difluorobenzene	466000		3.959			
3114-55-4	Chlorobenzene-d5	405000		8.878			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	57.6		J		1.47	ppbv
115-07-1	Propene	15.9		J		1.49	ppbv
64-17-5	Ethanol	6000		J		1.73	ppbv

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-2	SDG No.:	Q2750
Lab Sample ID:	Q2750-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042799.D	1		08/04/25 11:49	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	2100		J		1.99	ppbv
108-05-4	Vinyl Acetate	2.10		J		2.46	ppbv
141-78-6	Ethyl Acetate	5.20		J		2.84	ppbv
99-87-6	p-Isopropyltoluene	0.70		J		11.9	ppbv

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\VL080425\
Data File : VL042799.D
Acq On : 04 Aug 2025 11:49
Operator : SY/MD
Sample : Q2750-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:01:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	168040	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	466299	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	405142	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	346336	10.794	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 107.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	11725	0.528	ppbv	93
3) Chlorodifluoromethane	1.473	51	1667967	57.631	ppbv #	80
4) Chloromethane	1.531	50	69558	7.739	ppbv	96
9) Propene	1.486	41	167322m	15.907	ppbv	
10) Heptane	4.981	43	7274m	0.256	ppbv	
11) Trichlorofluoromethane	1.877	101	4681	0.204	ppbv	94
13) Ethanol	1.725	45	4604154	6010.216	ppbv	93
15) Acetone	1.832	43	2199380	94.786	ppbv #	77
19) Isopropyl Alcohol	1.994	45	26405566m	2141.446	ppbv	
20) Methylene Chloride	2.062	84	14457	1.977	ppbv	98
23) Vinyl Acetate	2.460	43	59640	2.120	ppbv #	90
25) Ethyl Acetate	2.842	43	264836m	5.156	ppbv	
26) Hexane	2.823	57	43398	1.926	ppbv #	1
27) Carbon Disulfide	2.146	76	70116	3.635	ppbv #	65
29) Chloroform	2.848	83	28519	0.819	ppbv	97
34) 2-Butanone	2.564	43	63731	1.929	ppbv	99
35) Carbon Tetrachloride	3.764	117	3474m	0.100	ppbv	
36) Benzene	3.654	78	13550	0.307	ppbv	96
41) Tetrahydrofuran	3.072	42	9335m	0.555	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	8131m	0.113	ppbv	
52) Tetrachloroethene	8.215	164	799m	0.044	ppbv	
53) Toluene	6.933	91	42388	0.893	ppbv	98
59) m/p-Xylene	9.529	91	13930m	0.272	ppbv	
61) Styrene	9.869	104	4307m	0.200	ppbv	
69) p-Isopropyltoluene	11.927	119	54078	0.697	ppbv #	93
79) Naphthalene	13.513	128	6363	0.537	ppbv #	91
81) 1,2,4-Trichlorobenzene	13.442	180	2468	0.506	ppbv #	90

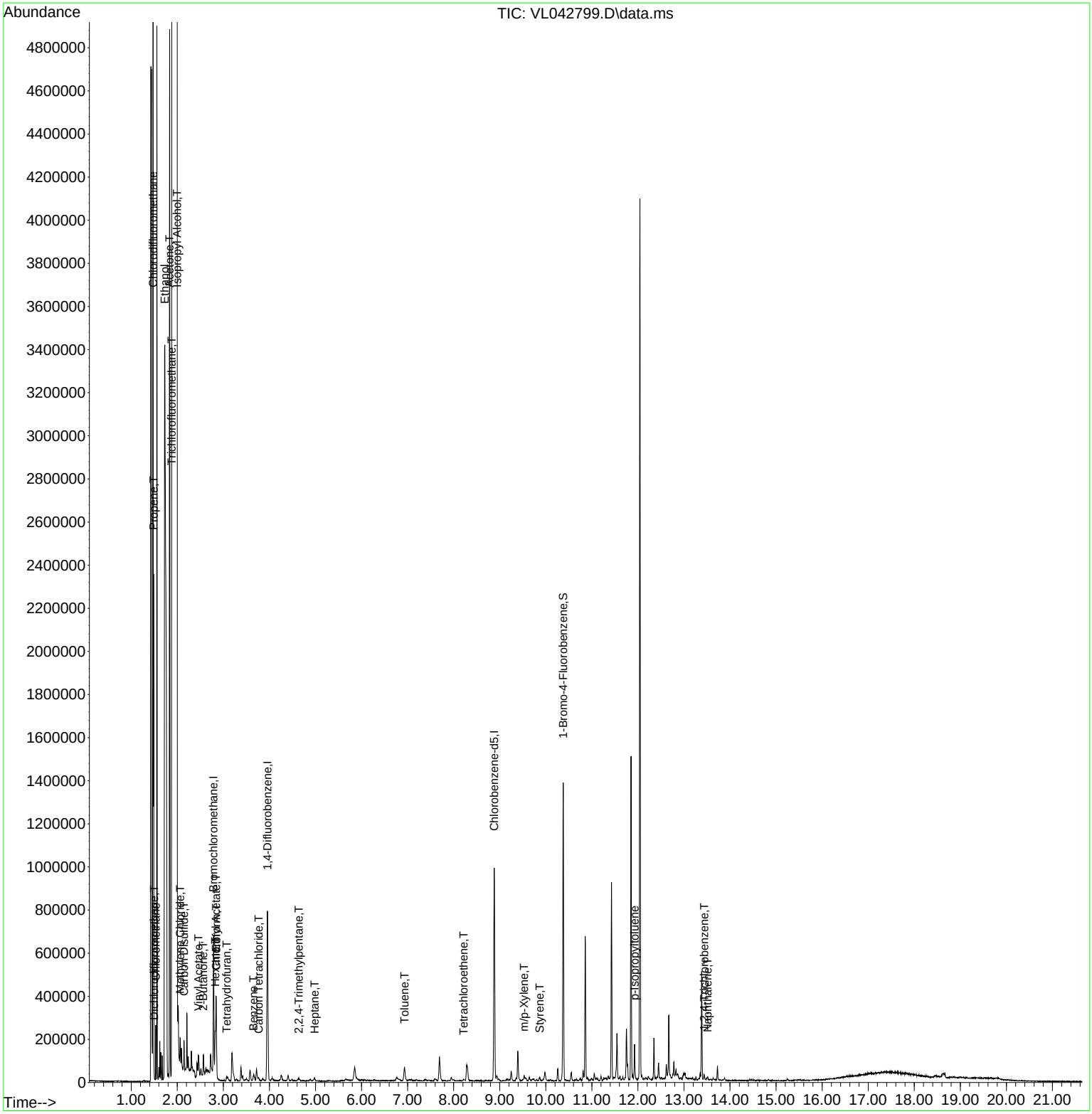
(#) = qualifier out of range (m) = manual integration (+) = signals summed

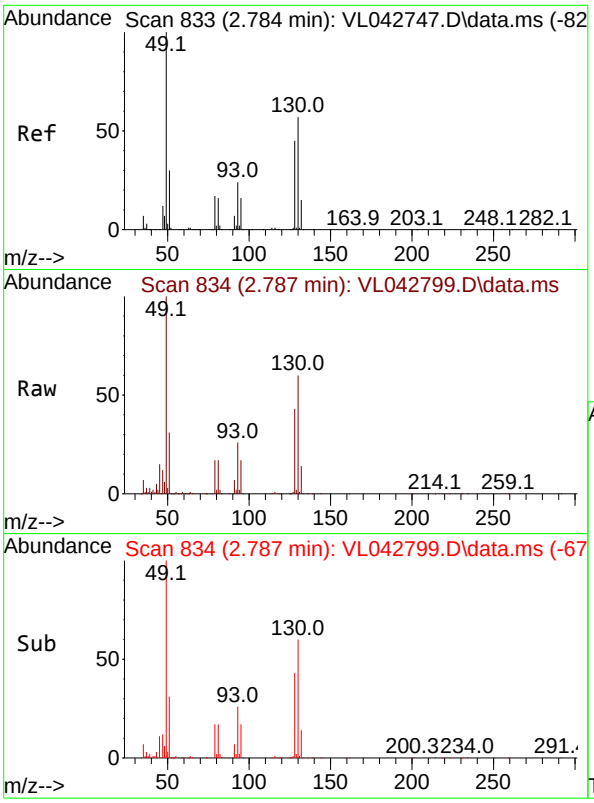
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042799.D
Acq On : 04 Aug 2025 11:49
Operator : SY/MD
Sample : Q2750-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:01:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

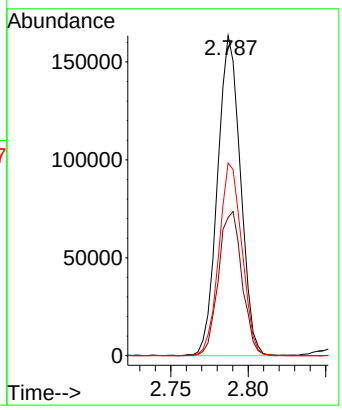




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 49 Resp: 16804

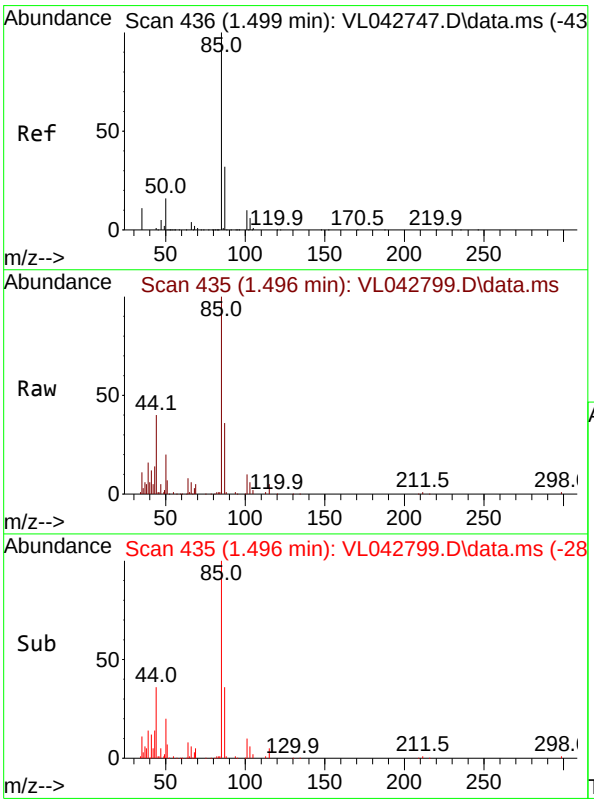
Ion	Ratio	Lower	Upper
49	100		
128	46.4	23.6	71.0
130	60.3	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

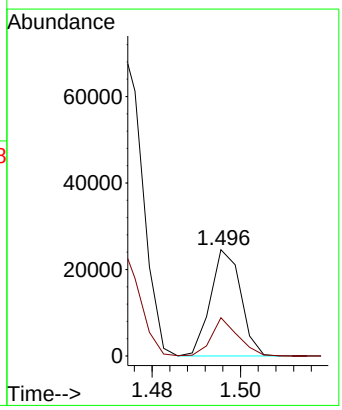
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

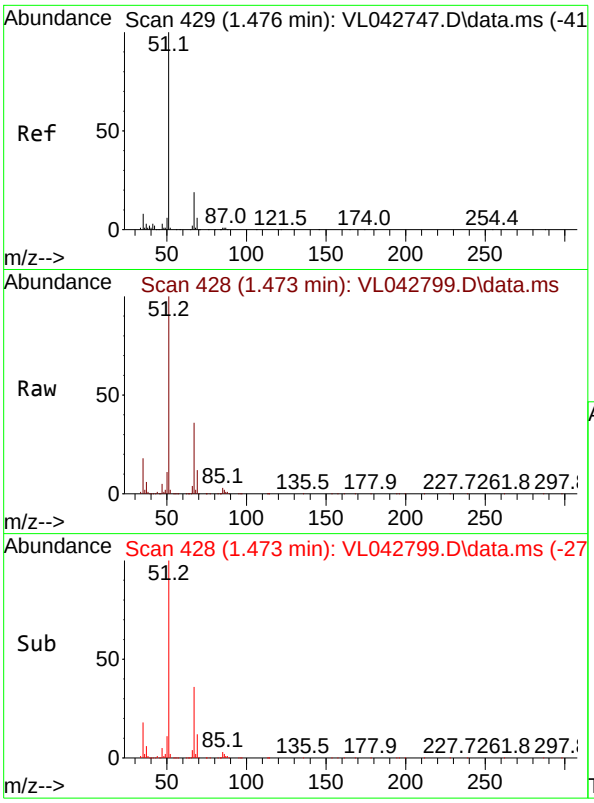


#2
Dichlorodifluoromethane
Concen: 0.528 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 85 Resp: 11725

Ion	Ratio	Lower	Upper
85	100		
87	35.7	25.4	38.2

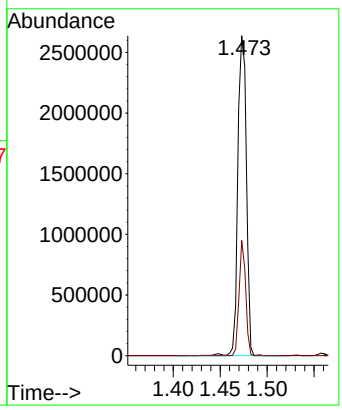




#3
Chlorodifluoromethane
Concen: 57.631 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 51 Resp: 166796

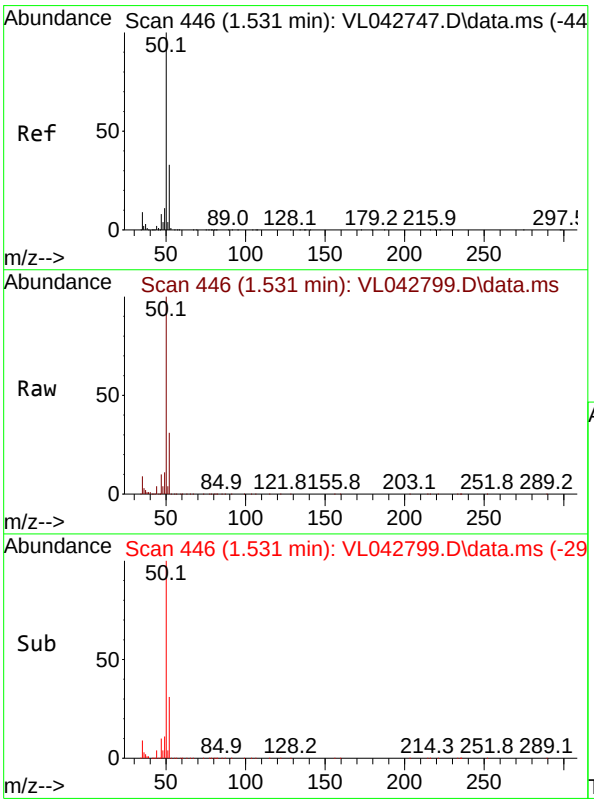
Ion	Ratio	Lower	Upper
51	100		
67	27.7	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

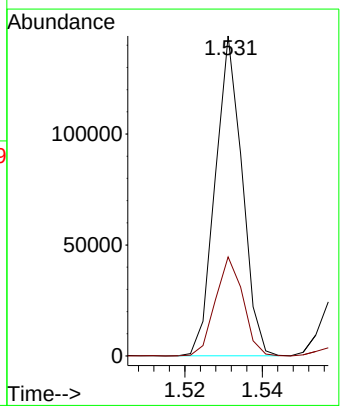
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

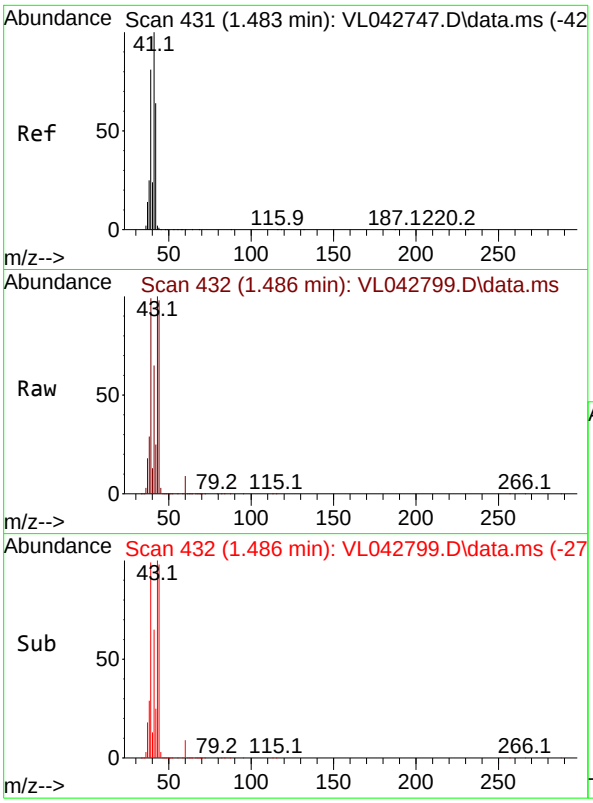


#4
Chloromethane
Concen: 7.739 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 50 Resp: 69558

Ion	Ratio	Lower	Upper
50	100		
52	30.9	26.6	40.0

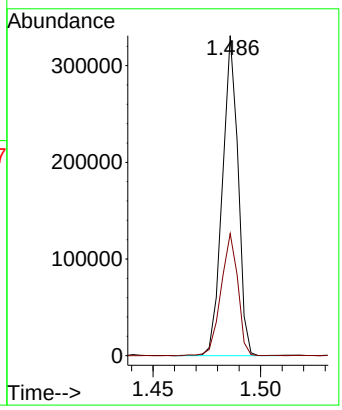




#9
Propene
Concen: 15.907 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 41 Resp: 16732

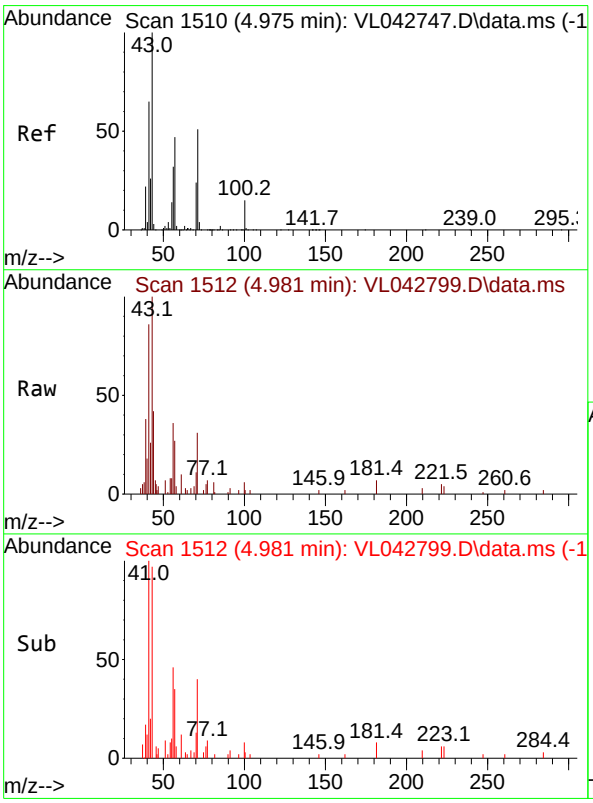
Ion	Ratio	Lower	Upper
41	100		
42	230.1	53.2	79.8#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

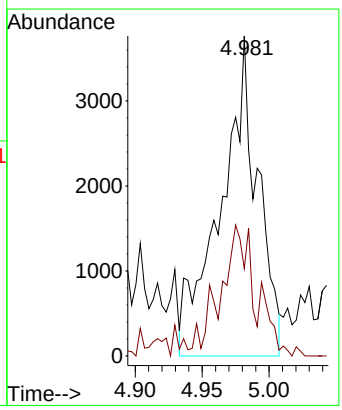
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

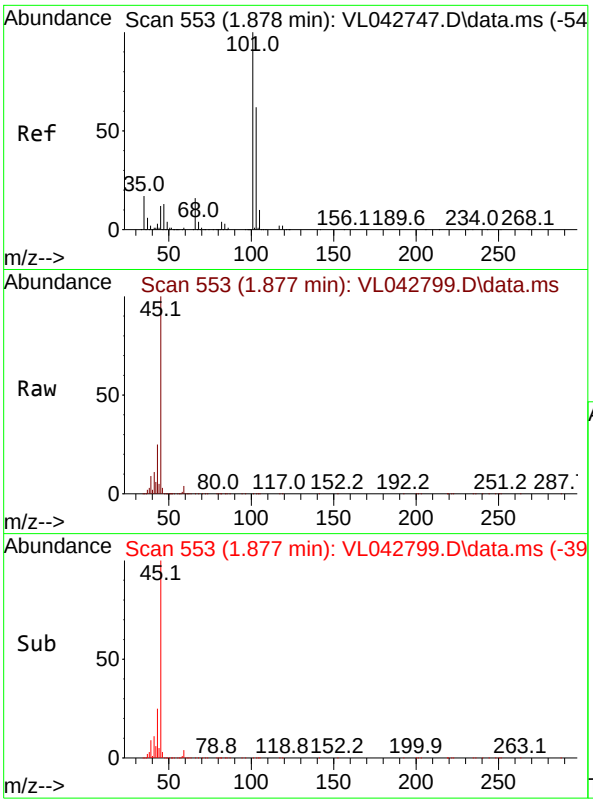


#10
Heptane
Concen: 0.256 ppbv m
RT: 4.981 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 43 Resp: 7274

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.9	59.9#





#11
Trichlorofluoromethane
Concen: 0.204 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

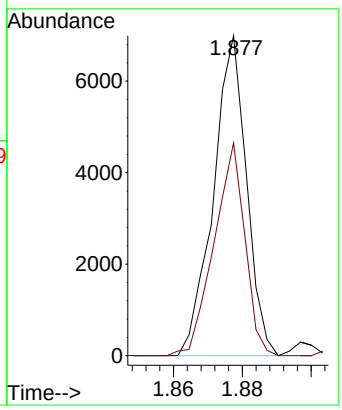
Tgt Ion:101 Resp: 468

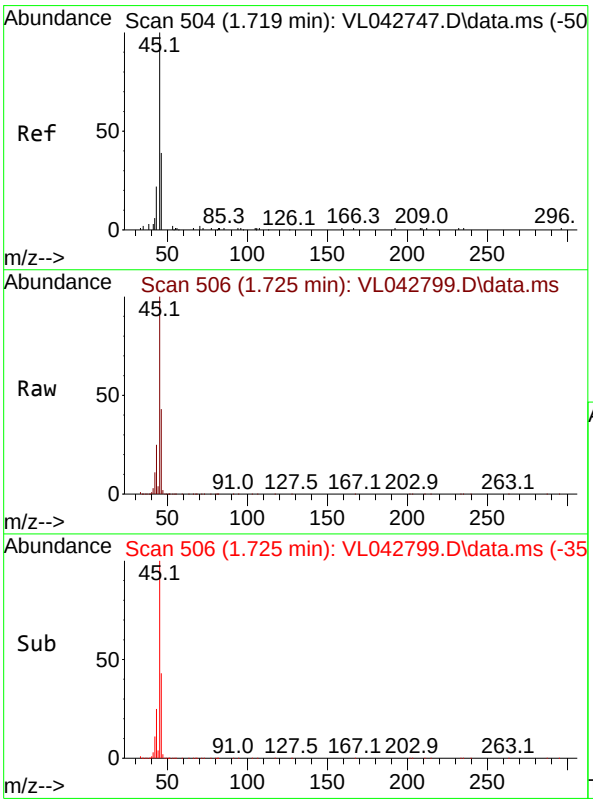
Ion	Ratio	Lower	Upper
101	100		
103	66.5	49.6	74.4

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

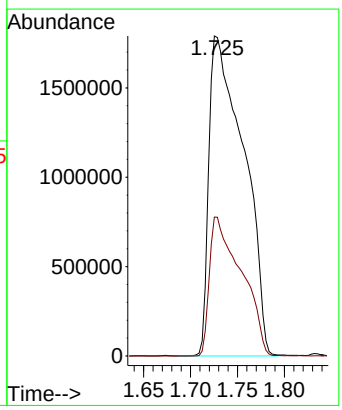


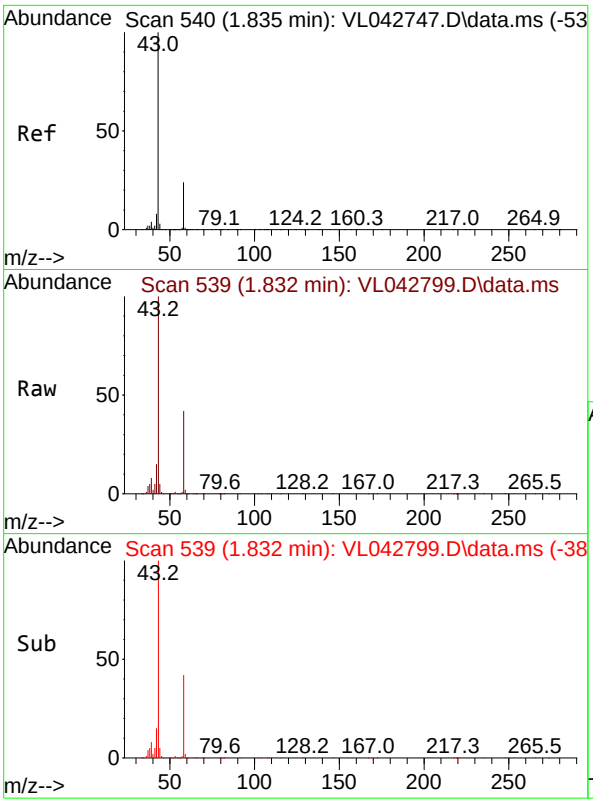


#13
Ethanol
Concen: 6010.216 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 45 Resp: 4604154

Ion	Ratio	Lower	Upper
45	100		
46	40.0	17.8	71.4

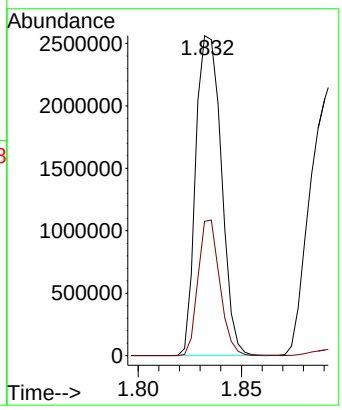




#15
Acetone
Concen: 94.786 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 43 Resp: 219938

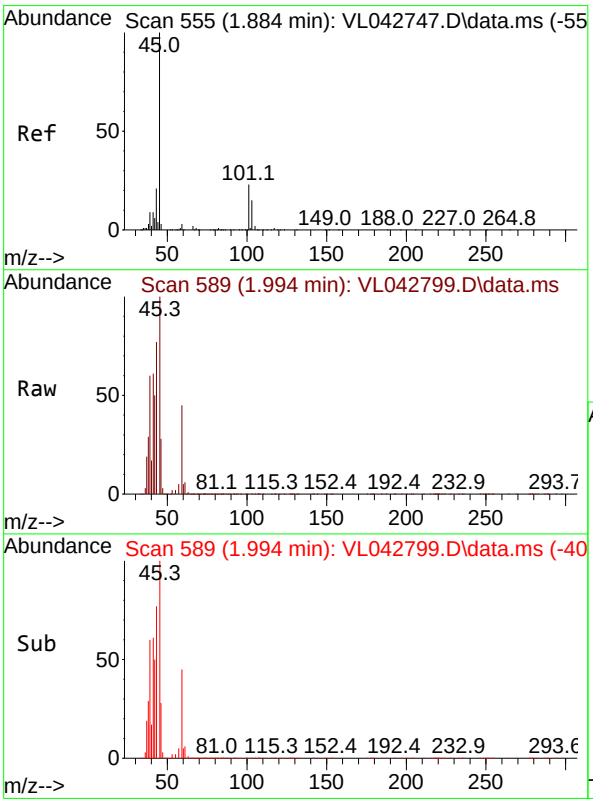
Ion	Ratio	Lower	Upper
43	100		
58	36.1	19.8	29.8#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

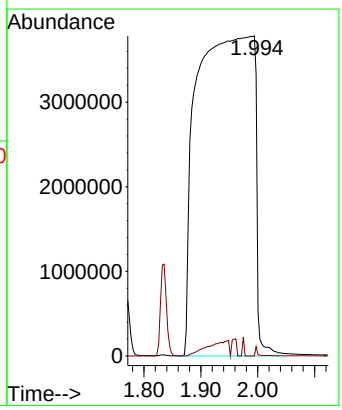
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

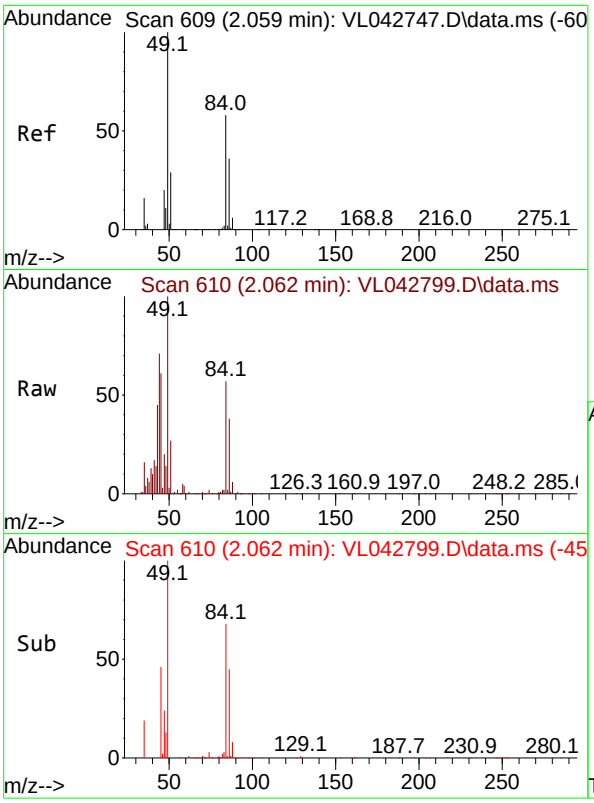


#19
Isopropyl Alcohol
Concen: 2141.446 ppbv m
RT: 1.994 min Scan# 589
Delta R.T. 0.110 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 45 Resp:26405566

Ion	Ratio	Lower	Upper
45	100		
58	2.4	30.0	45.0#

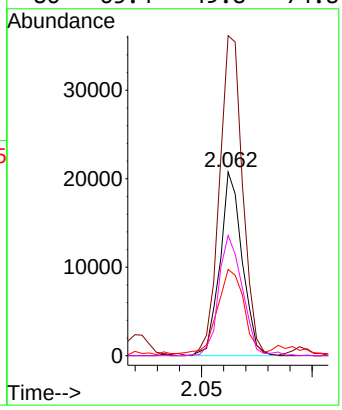




#20
Methylene Chloride
Concen: 1.977 ppbv
RT: 2.062 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 84 Resp: 1445

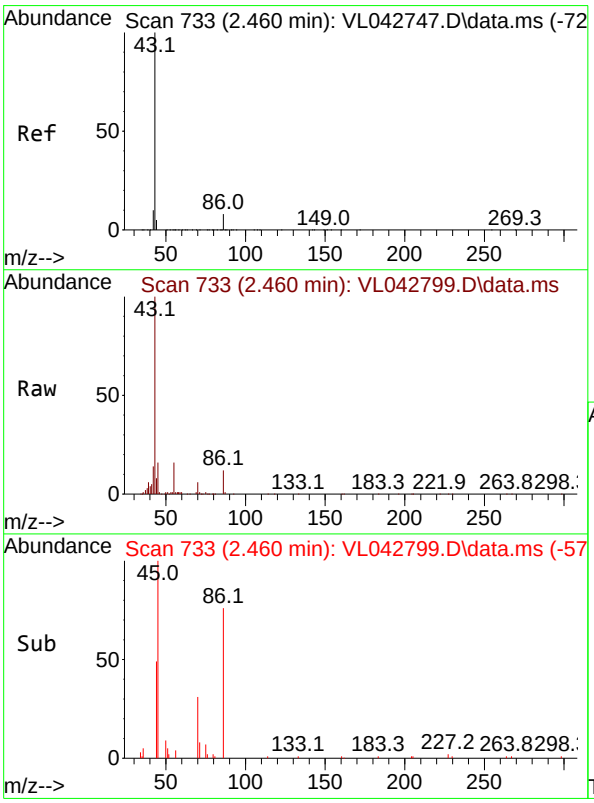
Ion	Ratio	Lower	Upper
84	100		
49	173.8	138.6	208.0
51	45.5	40.6	61.0
86	65.4	49.8	74.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

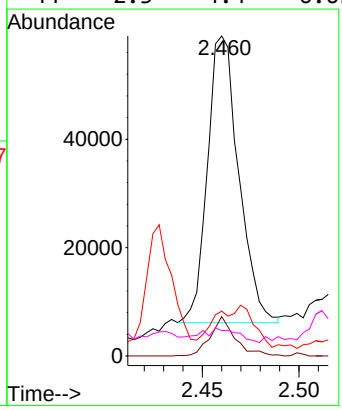
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

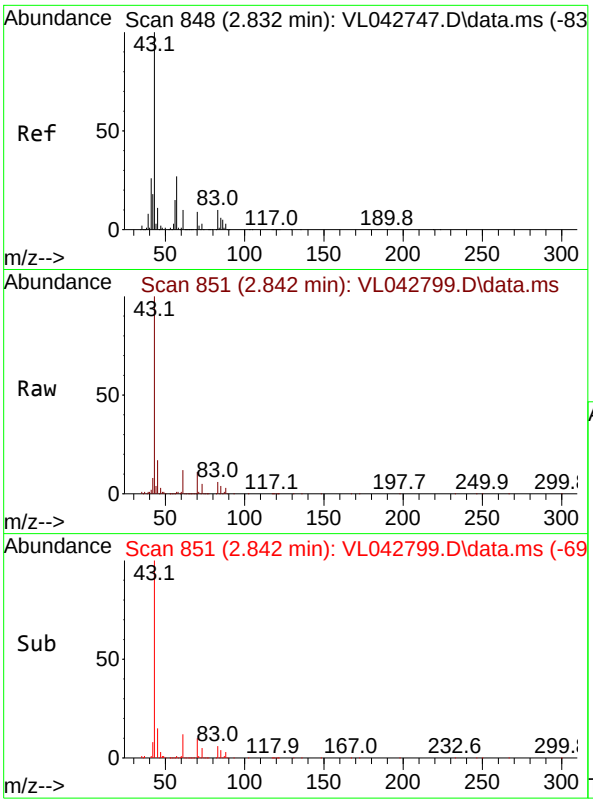


#23
Vinyl Acetate
Concen: 2.120 ppbv
RT: 2.460 min Scan# 733
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 43 Resp: 59640

Ion	Ratio	Lower	Upper
43	100		
86	13.6	6.1	9.1#
42	11.7	7.8	11.8
44	2.3	4.4	6.6#

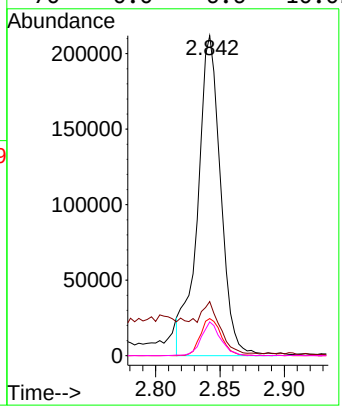




#25
Ethyl Acetate
Concen: 5.156 ppbv m
RT: 2.842 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 43 Resp: 26483

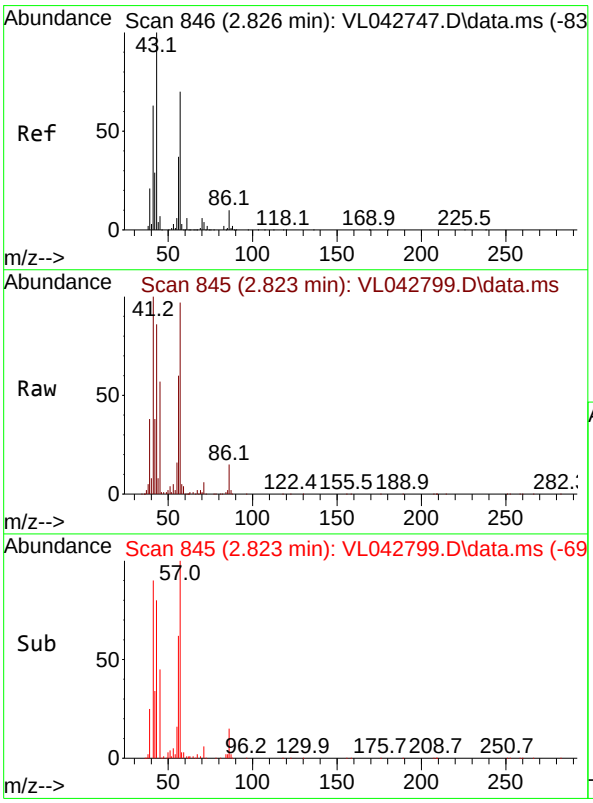
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	6.7	10.1#
70	0.0	6.6	10.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

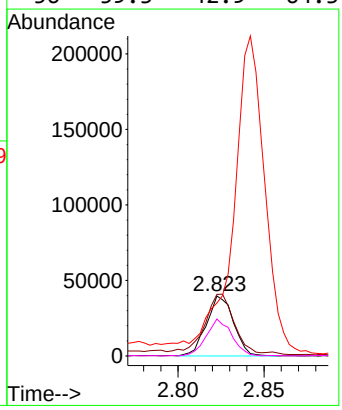
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

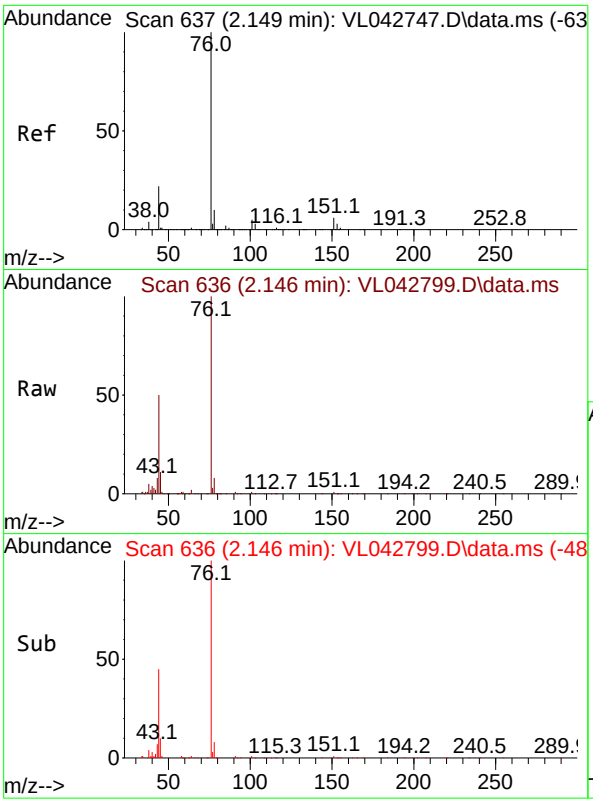


#26
Hexane
Concen: 1.926 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 57 Resp: 43398

Ion	Ratio	Lower	Upper
57	100		
41	115.1	75.4	113.2#
43	680.3	185.0	277.6#
56	59.3	42.9	64.3

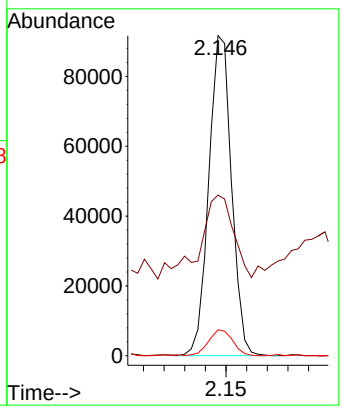




#27
Carbon Disulfide
Concen: 3.635 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 76 Resp: 7011

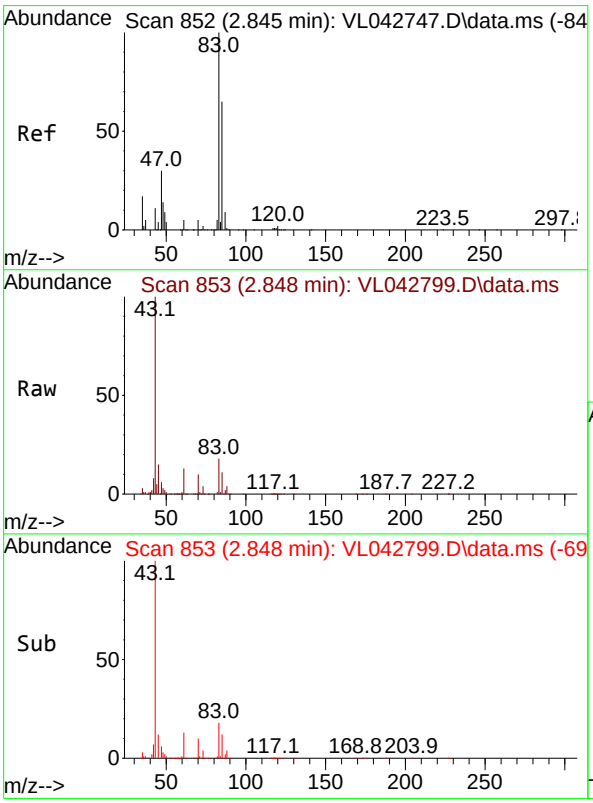
Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.0	9.9	14.9#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

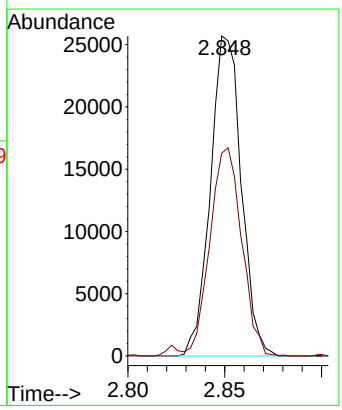
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

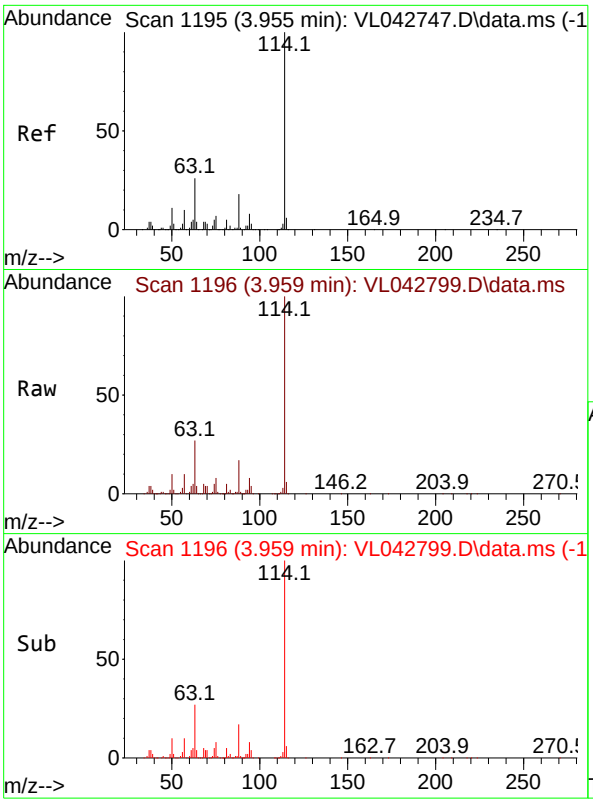


#29
Chloroform
Concen: 0.819 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 83 Resp: 28519

Ion	Ratio	Lower	Upper
83	100		
85	63.1	52.2	78.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

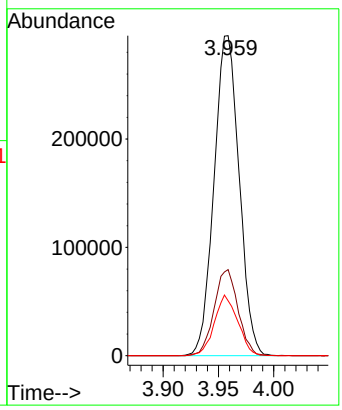
Tgt Ion:114 Resp: 46629

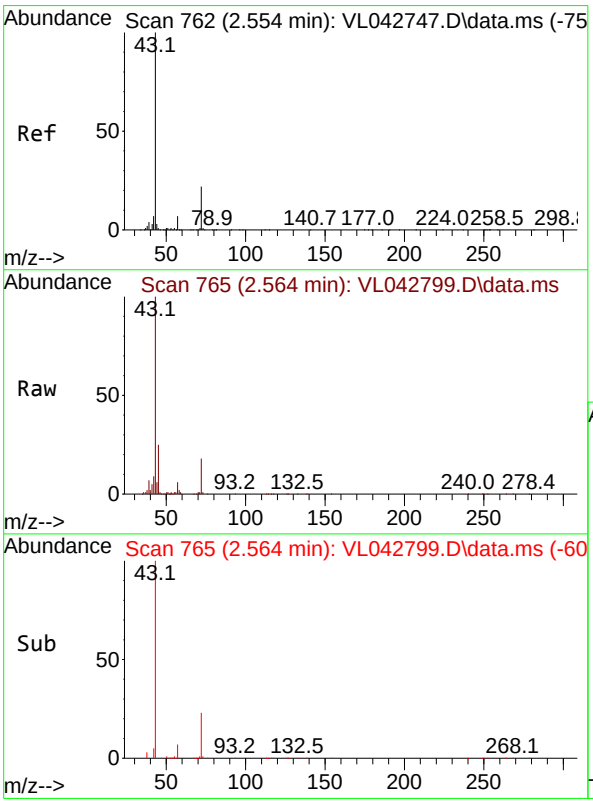
Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.5	30.7
88	17.7	14.0	21.0

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

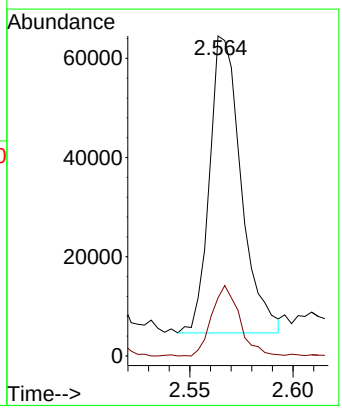


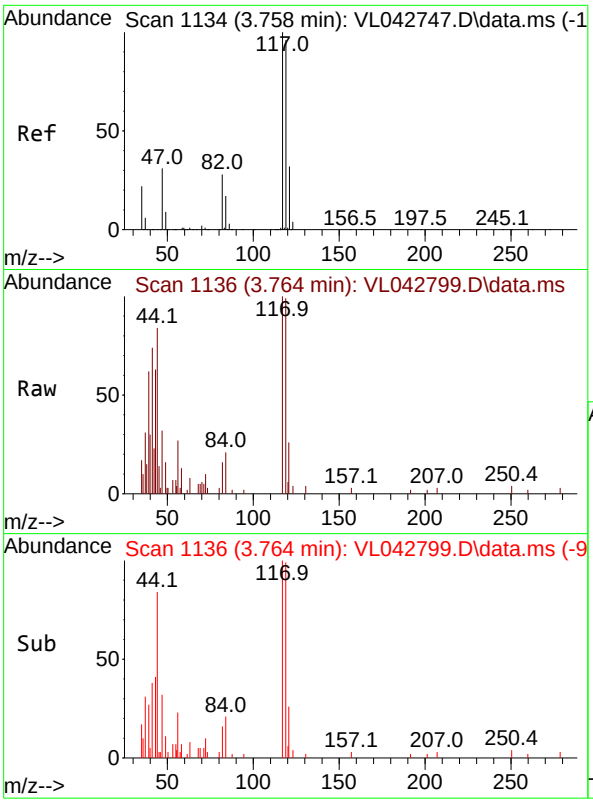


#34
2-Butanone
Concen: 1.929 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 43 Resp: 63731

Ion	Ratio	Lower	Upper
43	100		
72	21.4	17.4	26.0

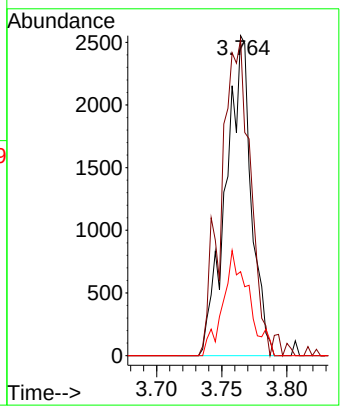




#35
Carbon Tetrachloride
Concen: 0.100 ppbv m
RT: 3.764 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:117 Resp: 347

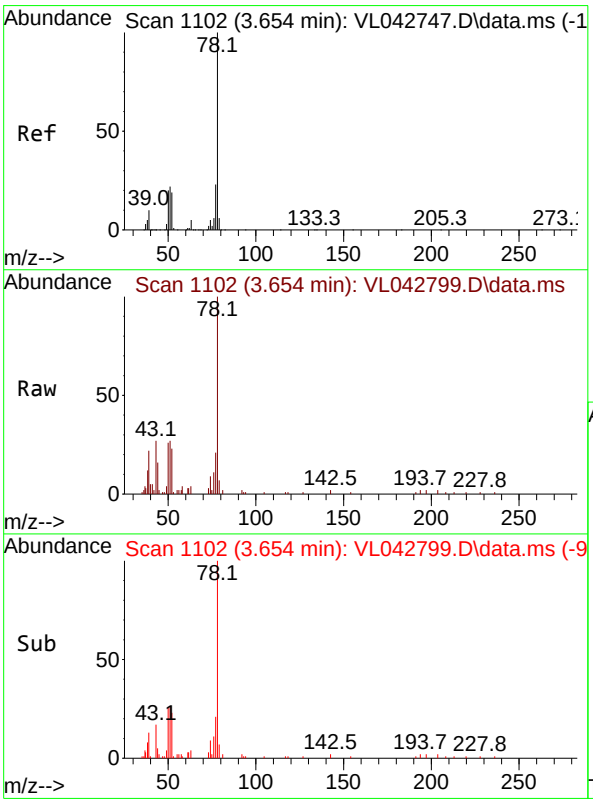
Ion	Ratio	Lower	Upper
117	100		
119	98.8	77.1	115.7
121	26.2	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

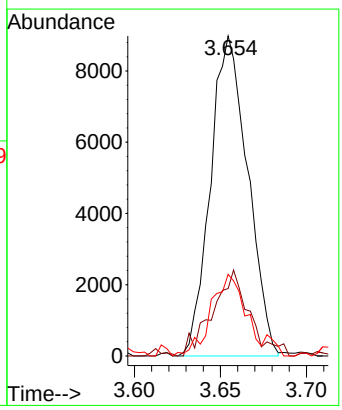
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

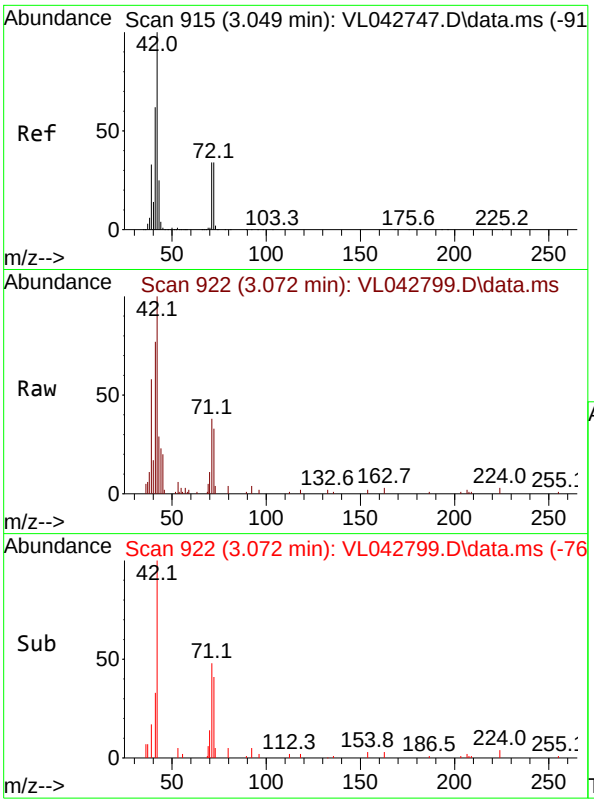


#36
Benzene
Concen: 0.307 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 78 Resp: 13550

Ion	Ratio	Lower	Upper
78	100		
77	21.3	18.5	27.7
50	22.6	16.2	24.2

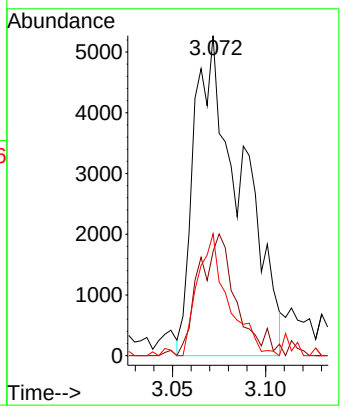




#41
Tetrahydrofuran
Concen: 0.555 ppbv m
RT: 3.072 min Scan# 9
Delta R.T. 0.023 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 42 Resp: 933

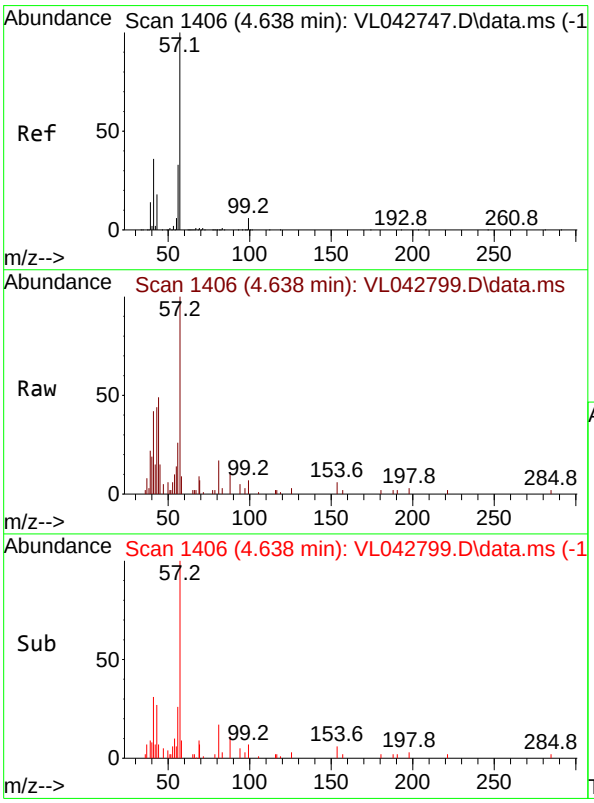
Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	0.0	28.6	43.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

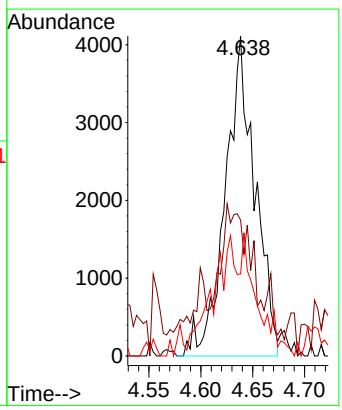
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

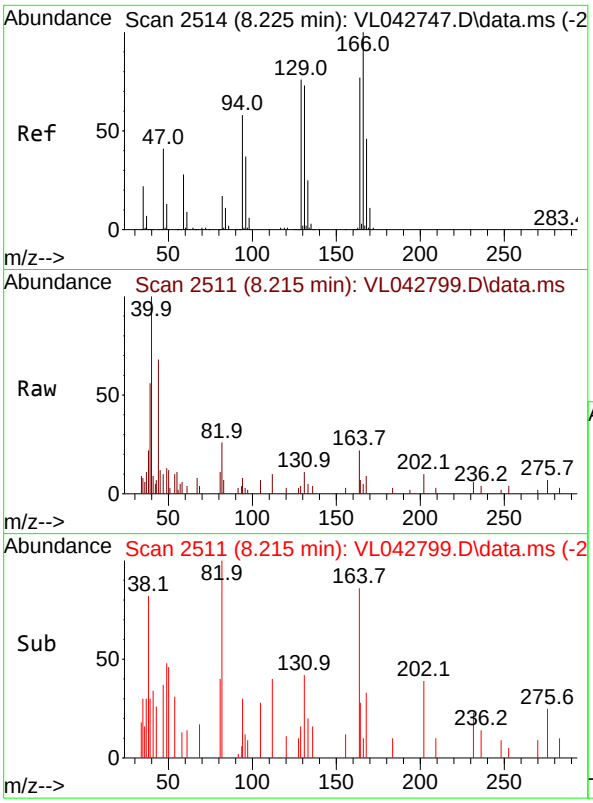


#44
2,2,4-Trimethylpentane
Concen: 0.113 ppbv m
RT: 4.638 min Scan# 1406
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 57 Resp: 8131

Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.3	42.5#
56	56.1	25.8	38.6#

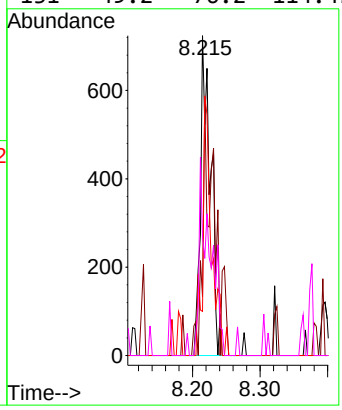




#52
Tetrachloroethene
Concen: 0.044 ppbv m
RT: 8.215 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:164 Resp: 79

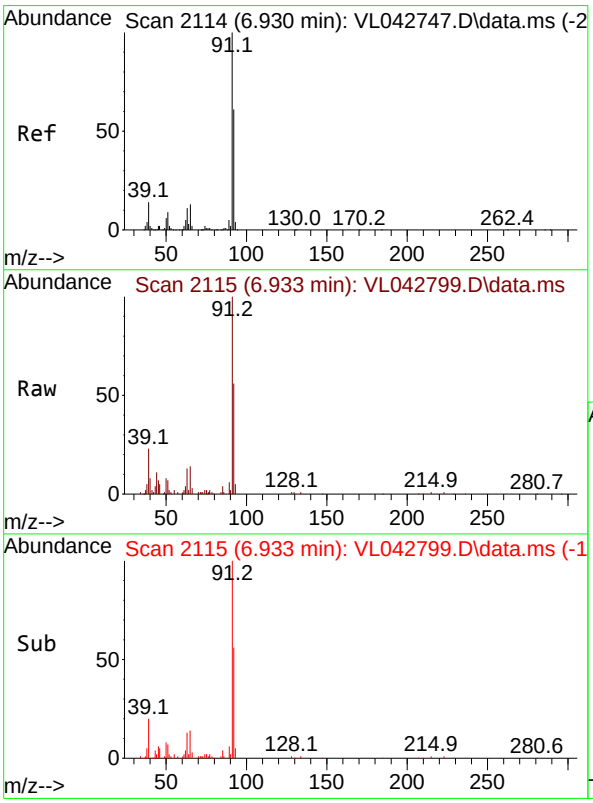
Ion	Ratio	Lower	Upper
164	100		
166	24.4	104.0	156.0#
129	18.3	79.2	118.8#
131	49.2	76.2	114.4#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

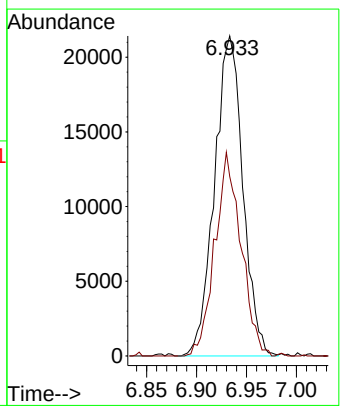
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

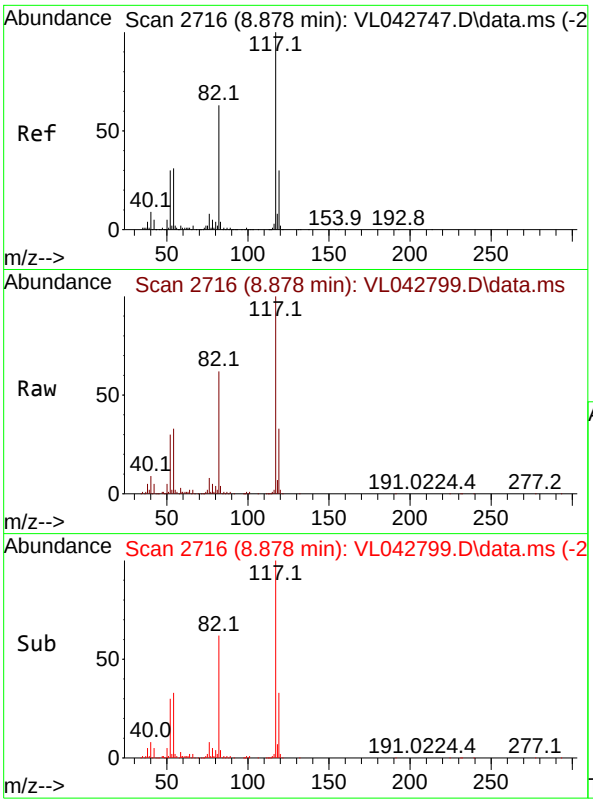


#53
Toluene
Concen: 0.893 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 91 Resp: 42388

Ion	Ratio	Lower	Upper
91	100		
92	58.8	48.0	72.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

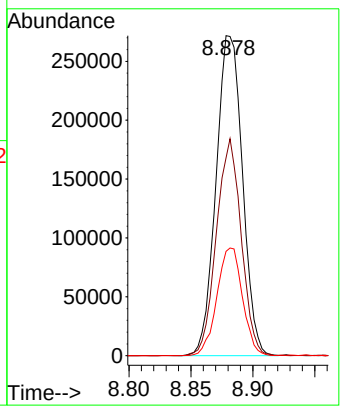
Tgt Ion:117 Resp: 40514

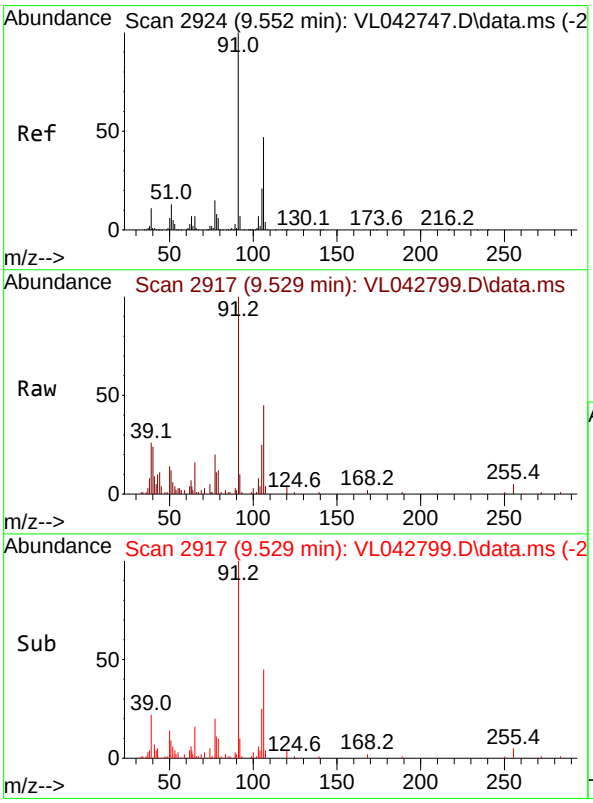
Ion	Ratio	Lower	Upper
117	100		
82	63.6	53.3	79.9
119	32.7	25.8	38.6

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

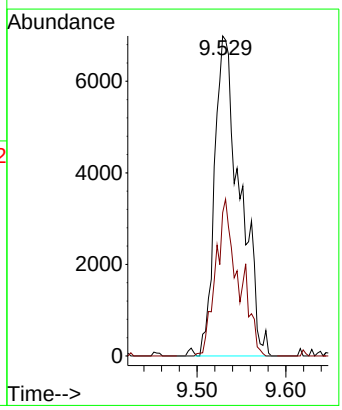


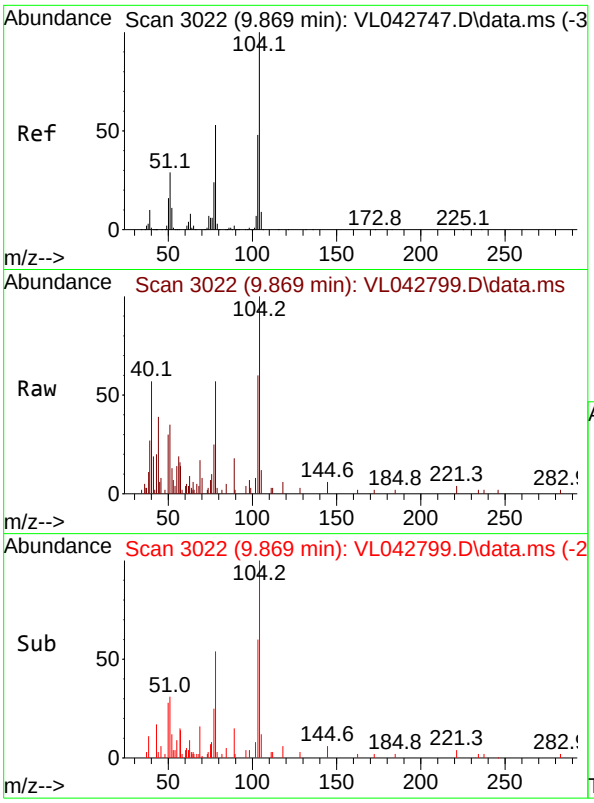


#59
m/p-Xylene
Concen: 0.272 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 91 Resp: 13930

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

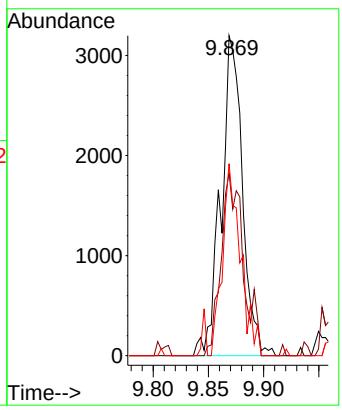




#61
Styrene
Concen: 0.200 ppbv m
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:104 Resp: 430

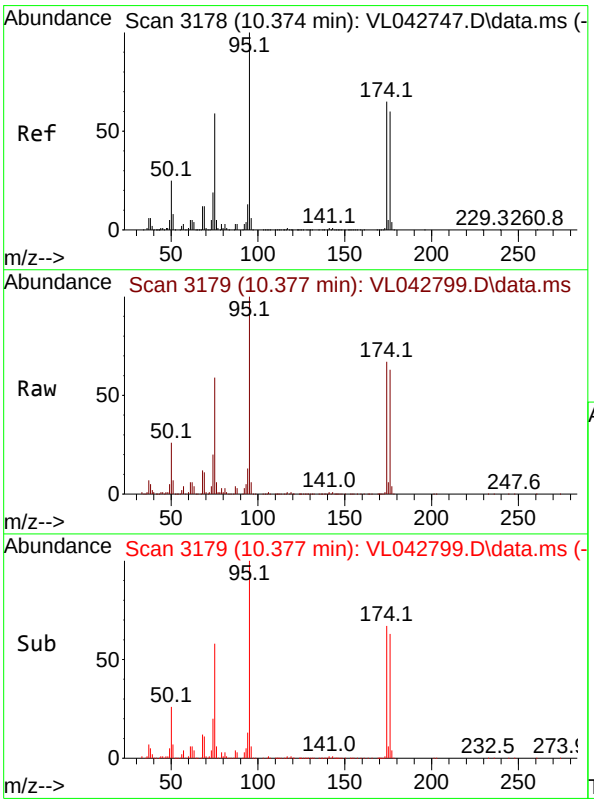
Ion	Ratio	Lower	Upper
104	100		
78	59.4	41.5	62.3
103	53.3	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

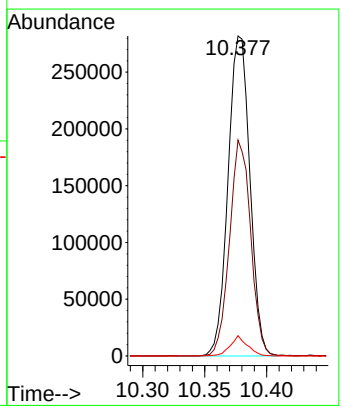
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

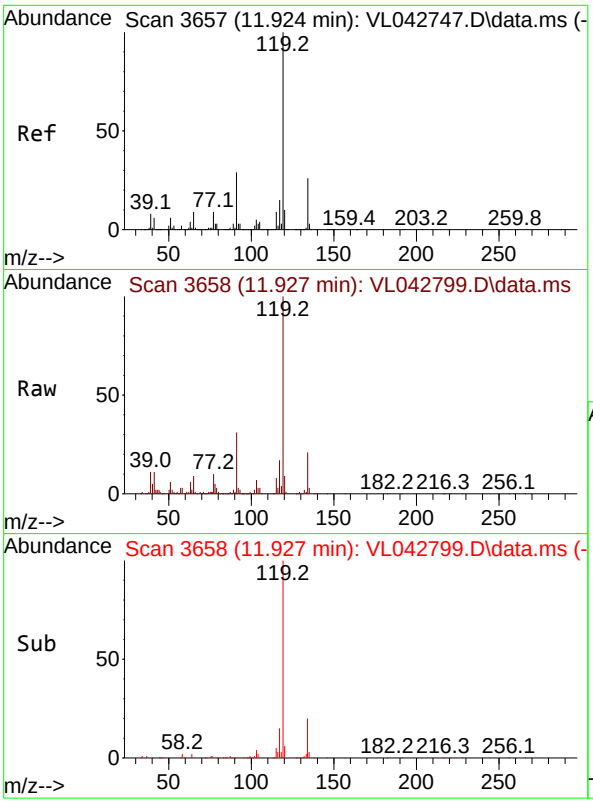


#68
1-Bromo-4-Fluorobenzene
Concen: 10.794 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 95 Resp: 346336

Ion	Ratio	Lower	Upper
95	100		
174	65.4	53.8	80.6
175	5.0	4.0	6.0

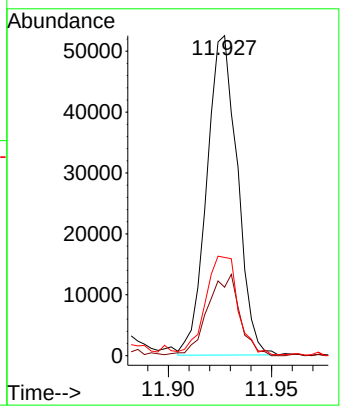




#69
p-Isopropyltoluene
Concen: 0.697 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:119 Resp: 5407

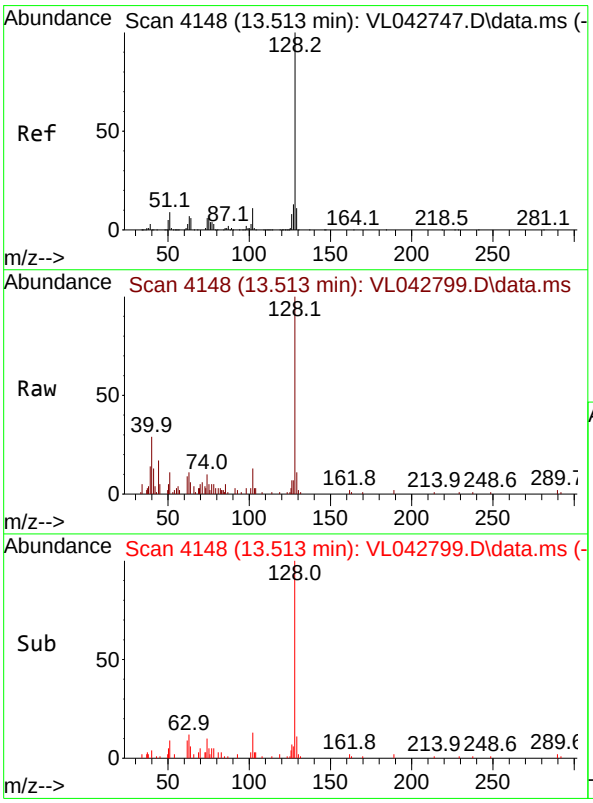
Ion	Ratio	Lower	Upper
119	100		
134	27.0	20.6	31.0
91	35.3	23.2	34.8#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

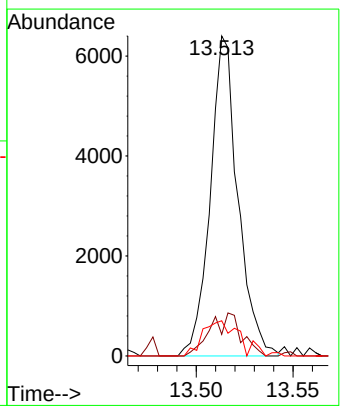
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

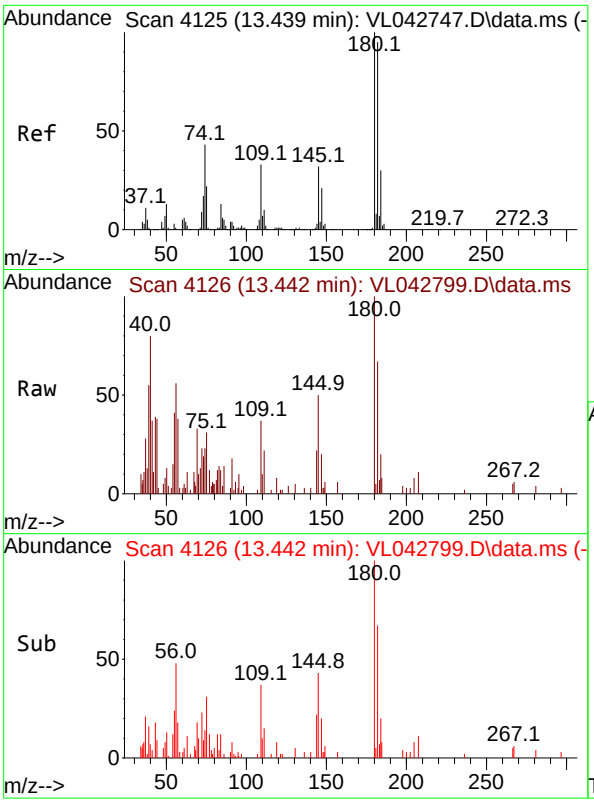


#79
Naphthalene
Concen: 0.537 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:128 Resp: 6363

Ion	Ratio	Lower	Upper
128	100		
127	6.8	10.5	15.7#
129	11.0	8.6	13.0

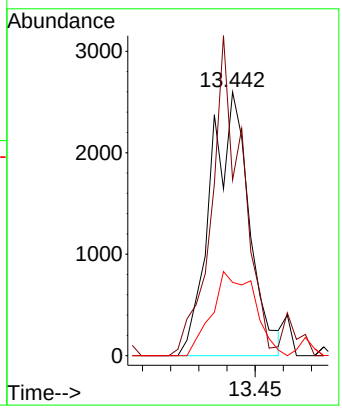




#81
1,2,4-Trichlorobenzene
Concen: 0.506 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:180 Resp: 246

Ion	Ratio	Lower	Upper
180	100		
182	104.7	76.2	114.2
184	37.6	24.8	37.2#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042799.D
Acq On : 04 Aug 2025 11:49
Operator : SY/MD
Sample : Q2750-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042799.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.428	409	414	416	rBV	4708801	4459513	9.09%	2.876%
2	1.437	416	417	424	rVV	4694277	2231470	4.55%	1.439%
3	1.473	424	428	431	rVV	5565610	3417534	6.97%	2.204%
4	1.486	431	432	440	rVB	2346174	866247	1.77%	0.559%
5	1.557	450	454	459	rBV	4886121	2618227	5.34%	1.689%
6	1.729	496	507	526	rBV	3409141	8458919	17.25%	5.456%
7	1.832	535	539	548	rVB	4857990	3911876	7.98%	2.523%
8	1.929	550	569	570	rBV	17826215	45321775	92.41%	29.233%
9	1.975	570	583	584	rVV3	18981635	49041933	100.00%	31.633%
10	1.994	584	589	592	rVV	19333301	20896731	42.61%	13.479%
11	2.787	827	834	840	rBV	625894	648739	1.32%	0.418%
12	2.842	846	851	863	rVB2	386567	526763	1.07%	0.340%
13	3.955	1184	1195	1214	rVB	786688	1224761	2.50%	0.790%
14	8.882	2703	2717	2729	rBV	987037	1454244	2.97%	0.938%
15	10.377	3161	3179	3190	rBV	1385016	1714917	3.50%	1.106%
16	10.856	3318	3327	3336	rVB	661612	769421	1.57%	0.496%
17	11.426	3493	3503	3513	rVB	911241	1020568	2.08%	0.658%
18	11.853	3625	3635	3643	rBV	1501772	1643476	3.35%	1.060%
19	12.044	3682	3694	3703	rBV	4081711	4287478	8.74%	2.765%
20	13.384	4101	4108	4116	rVB	500938	520676	1.06%	0.336%

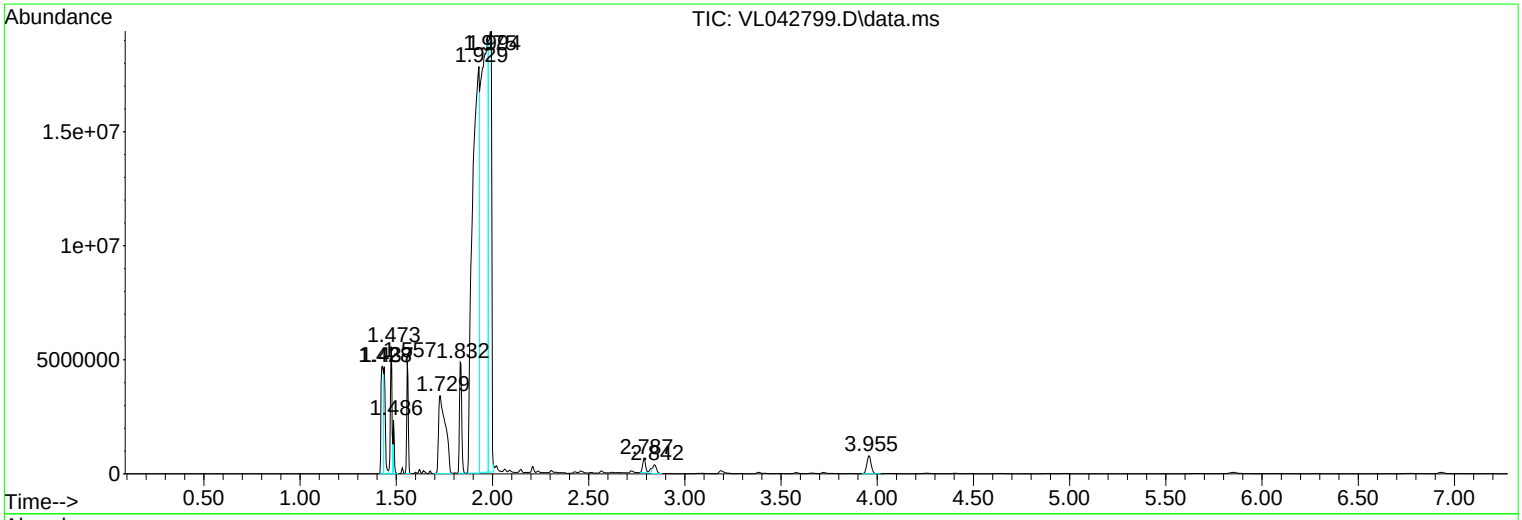
Sum of corrected areas: 155035268

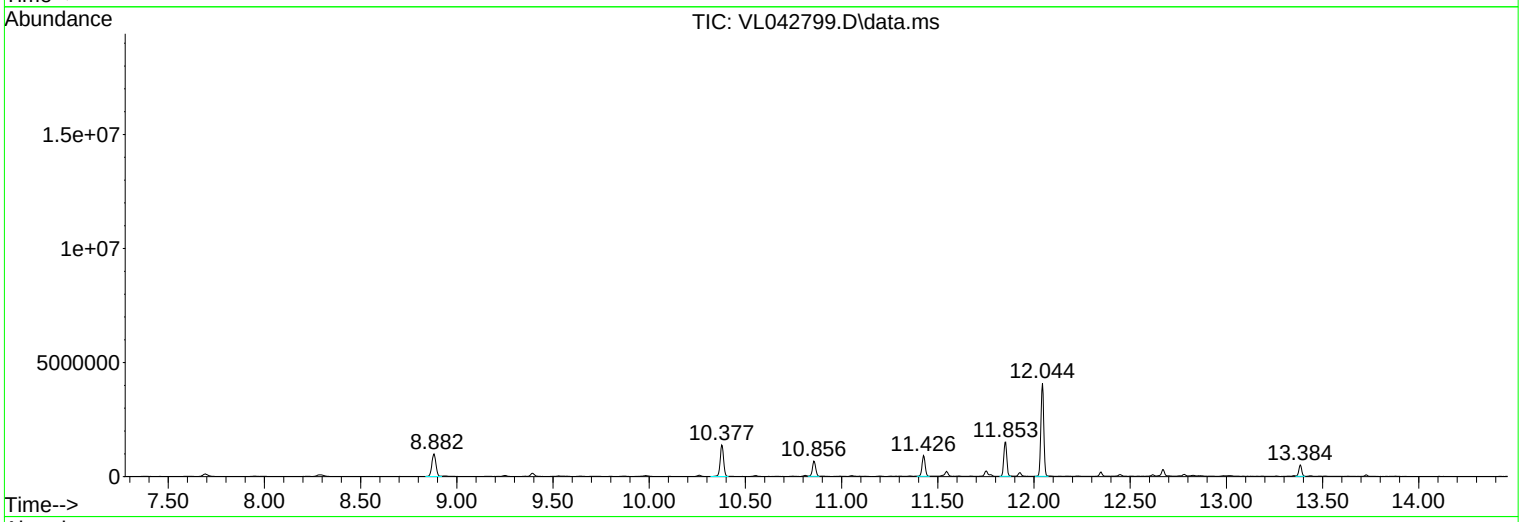
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042799.D
Acq On : 04 Aug 2025 11:49
Operator : SY/MD
Sample : Q2750-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

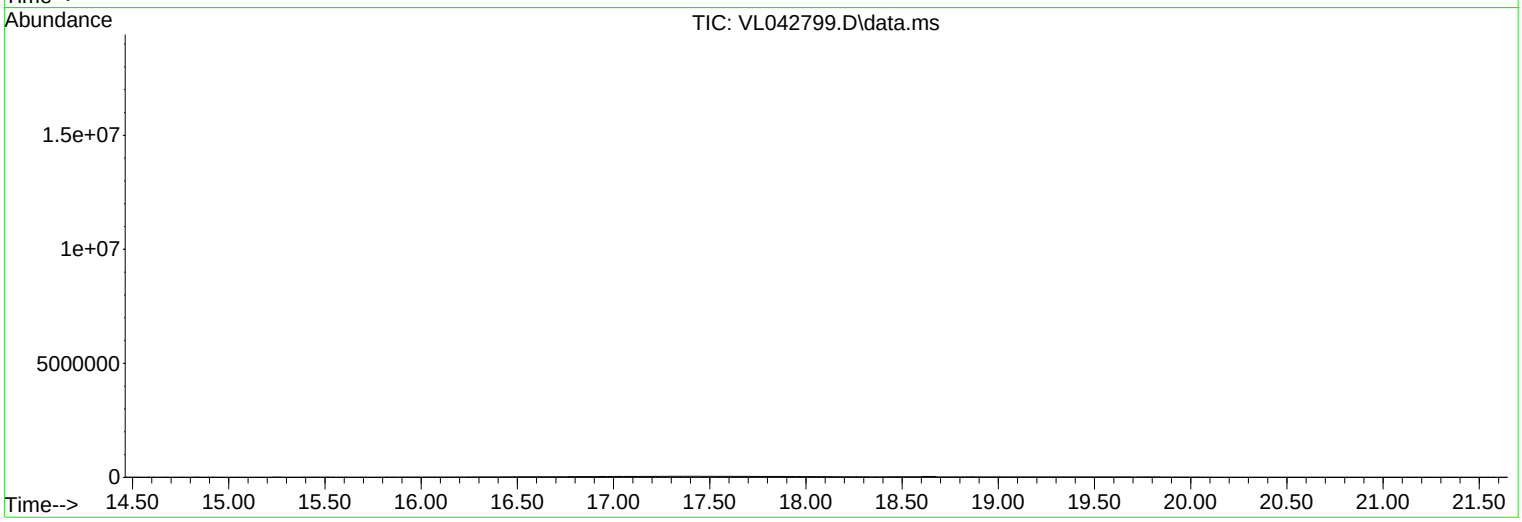
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library :
TIC Integration Parameters: RTEINT.P







Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042799.D
Acq On : 04 Aug 2025 11:49
Operator : SY/MD
Sample : Q2750-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library :
TIC Integration Parameters: RTEINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042799.D
Acq On : 04 Aug 2025 11:49
Operator : SY/MD
Sample : Q2750-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library :
TIC Integration Parameters: RTEINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-2DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042821.D	20		08/05/25 00:12	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.20	10.9	UD	10.9	49.5	ug/m3
74-87-3	Chloromethane	8.40	17.4	JD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.50	1.28	UD	1.28	1.53	ug/m3
74-83-9	Bromomethane	1.50	5.82	UD	5.82	38.8	ug/m3
75-00-3	Chloroethane	3.00	7.92	UD	7.92	26.4	ug/m3
109-99-9	Tetrahydrofuran	1.60	4.72	UD	4.72	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.40	19.1	UD	19.1	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	2.80	21.5	UD	21.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.00	21.0	UD	21.0	69.9	ug/m3
75-65-0	tert-Butyl alcohol	3.20	9.70	UD	9.70	30.3	ug/m3
142-82-5	Heptane	3.40	13.9	UD	13.9	41.0	ug/m3
75-35-4	1,1-Dichloroethene	3.00	11.9	UD	11.9	39.6	ug/m3
67-64-1	Acetone	160	380	D	8.55	23.8	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.60	16.6	UD	16.6	36.0	ug/m3
75-09-2	Methylene Chloride	7.10	24.7	JD	16.0	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	2.40	9.52	UD	9.52	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	1.10	3.24	UD	3.24	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.50	3.15	UD	3.15	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	2.00	7.93	UD	7.93	39.6	ug/m3
67-66-3	Chloroform	1.90	9.28	UD	9.28	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.32	1.75	UD	1.75	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	2.80	13.1	UD	13.1	46.7	ug/m3
71-43-2	Benzene	1.60	5.11	UD	5.11	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.90	7.69	UD	7.69	40.5	ug/m3
79-01-6	Trichloroethene	0.48	2.58	UD	2.58	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.60	12.0	UD	12.0	46.2	ug/m3
75-27-4	Bromodichloromethane	1.30	8.71	UD	8.71	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	3.20	12.1	UD	12.1	37.7	ug/m3
10061-02-6	t-1,3-Dichloropropene	3.00	13.6	UD	13.6	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.20	9.99	UD	9.99	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.60	8.73	UD	8.73	54.6	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-2DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042821.D	20		08/05/25 00:12	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	1.70	14.5	UD	14.5	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.70	13.1	UD	13.1	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	3.80	16.5	UD	16.5	43.4	ug/m3
179601-23-1	m/p-Xylene	8.20	35.6	UD	35.6	86.9	ug/m3
95-47-6	o-Xylene	4.20	18.2	UD	18.2	43.4	ug/m3
100-42-5	Styrene	3.20	13.6	UD	13.6	42.6	ug/m3
75-25-2	Bromoform	0.96	9.93	UD	9.93	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.36	2.47	UD	2.47	4.12	ug/m3
95-49-8	2-Chlorotoluene	3.40	17.6	UD	17.6	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	4.20	31.2	UD	31.2	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	2.60	27.7	UD	27.7	107	ug/m3
106-99-0	1,3-Butadiene	1.00	2.21	UD	2.21	22.1	ug/m3
91-20-3	Naphthalene	0.26	1.36	UD	1.36	10.5	ug/m3
622-96-8	4-Ethyltoluene	4.20	20.6	UD	20.6	49.2	ug/m3
110-54-3	Hexane	3.20	11.3	UD	11.3	35.2	ug/m3
107-05-1	Allyl Chloride	2.20	6.89	UD	6.89	31.3	ug/m3
123-91-1	1,4-Dioxane	4.40	15.9	UD	15.9	36.0	ug/m3
80-62-6	Methyl Methacrylate	2.80	11.5	UD	11.5	41.0	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			70 (65) - 130 (135)	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	148000		2.784			
540-36-3	1,4-Difluorobenzene	371000		3.955			
3114-55-4	Chlorobenzene-d5	319000		8.878			

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-2DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042821.D	20		08/05/25 00:12	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042821.D
Acq On : 05 Aug 2025 00:12
Operator : SY/MD
Sample : Q2750-01DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:15:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	148113	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	371352	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	318755	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	247401	9.801	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.000%				
Target Compounds							Qvalue
3) Chlorodifluoromethane	1.473	51	145902	5.719	ppbv		99
4) Chloromethane	1.531	50	3318	0.419	ppbv		90
9) Propene	1.486	41	9579m	1.033	ppbv		
13) Ethanol	1.719	45	223904	330.517	ppbv		89
15) Acetone	1.832	43	168012	8.215	ppbv		99
19) Isopropyl Alcohol	1.894	45	4673053	429.964	ppbv	#	40
20) Methylene Chloride	2.059	84	2276	0.353	ppbv	#	76

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

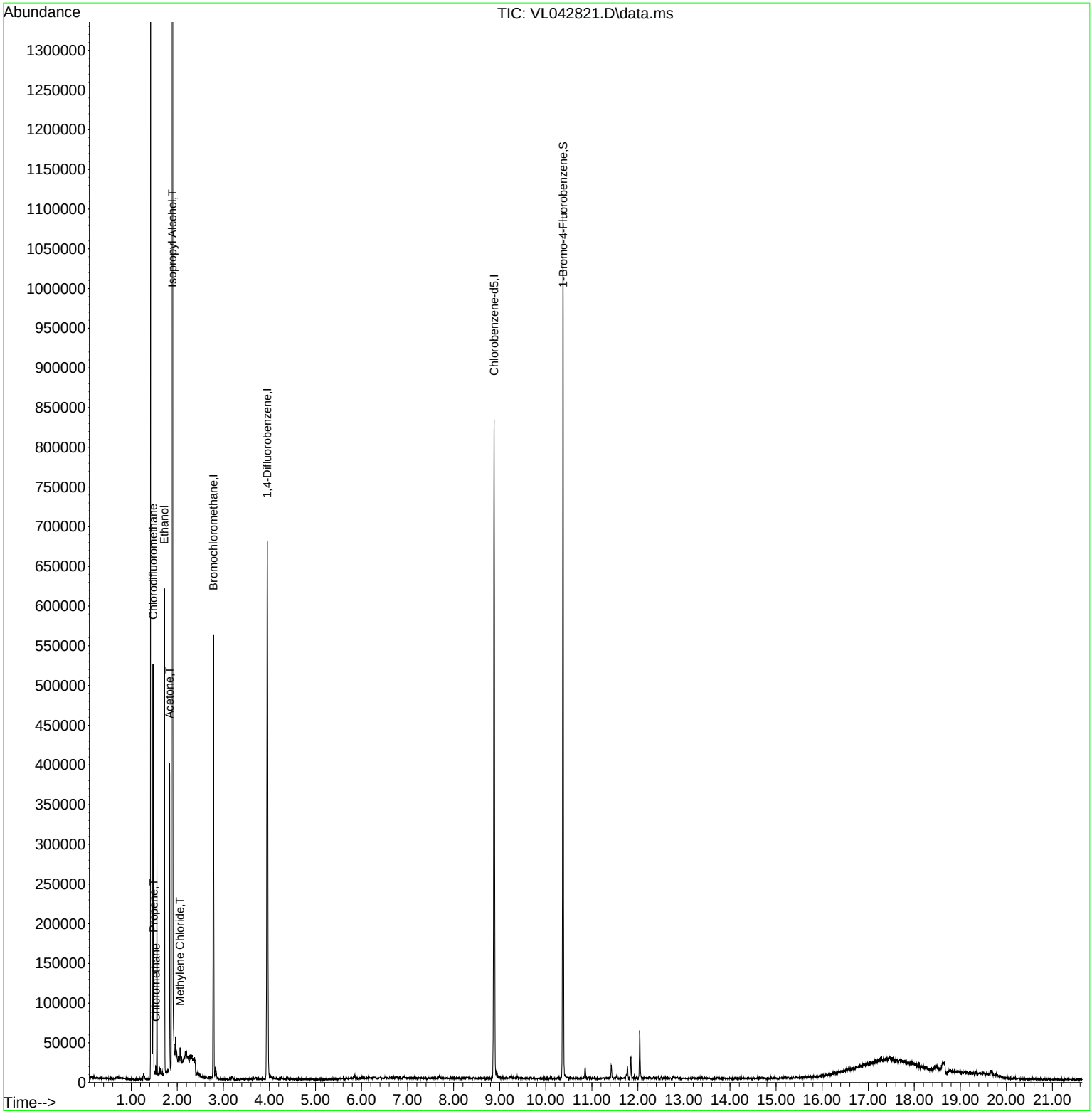
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042821.D
Acq On : 05 Aug 2025 00:12
Operator : SY/MD
Sample : Q2750-01DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

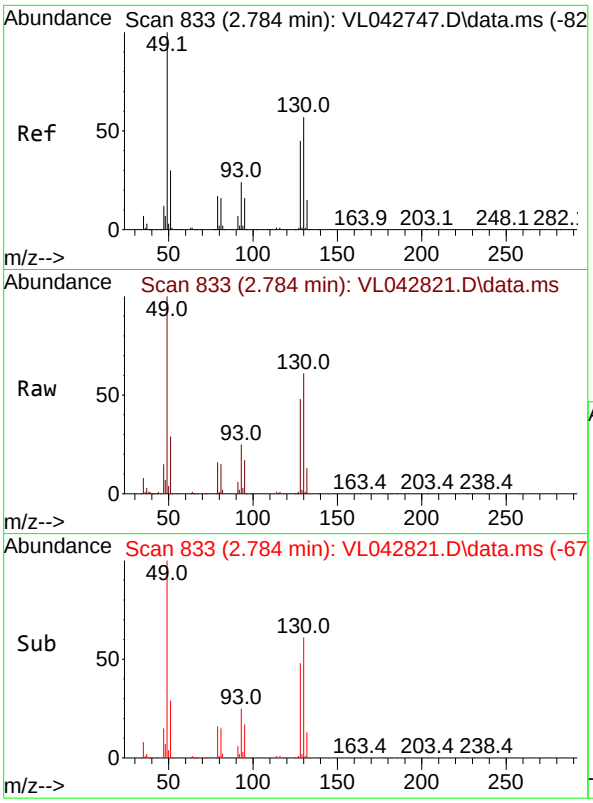
Quant Time: Aug 05 01:15:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

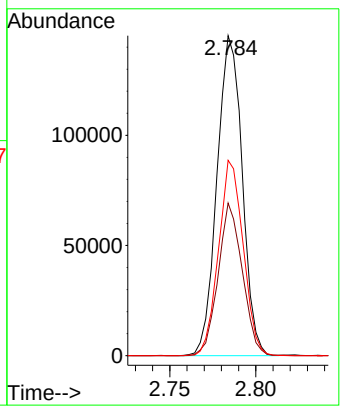




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 49 Resp: 14811

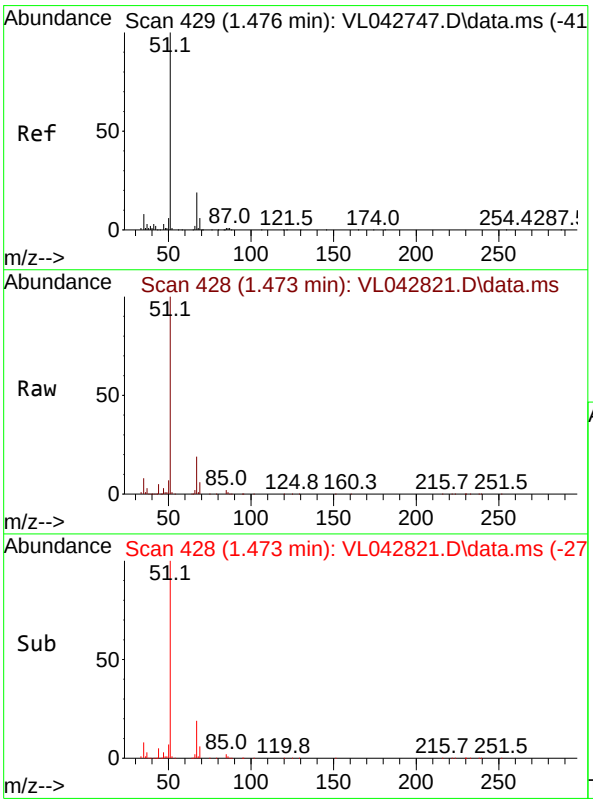
Ion	Ratio	Lower	Upper
49	100		
128	45.7	23.6	71.0
130	59.7	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Manual Integrations
APPROVED

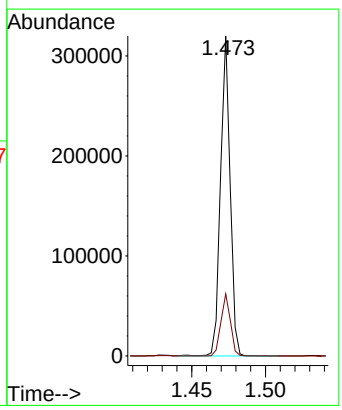
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

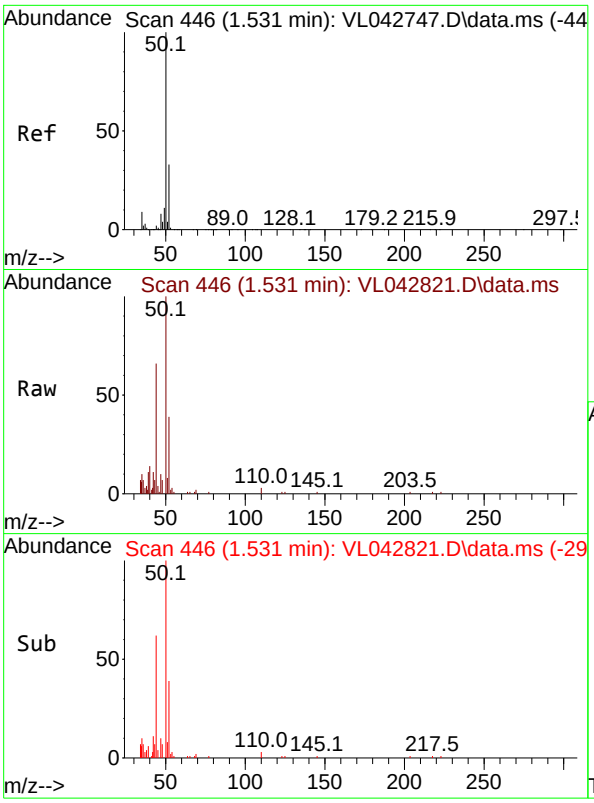


#3
Chlorodifluoromethane
Concen: 5.719 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 51 Resp: 145902

Ion	Ratio	Lower	Upper
51	100		
67	19.2	15.0	22.6

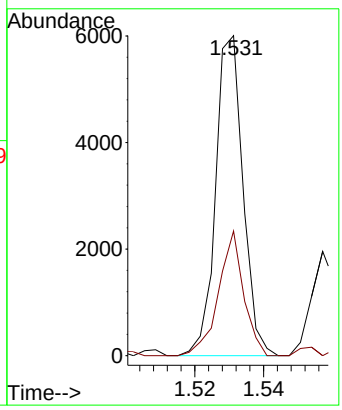




#4
Chloromethane
Concen: 0.419 ppbv
RT: 1.531 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 50 Resp: 331

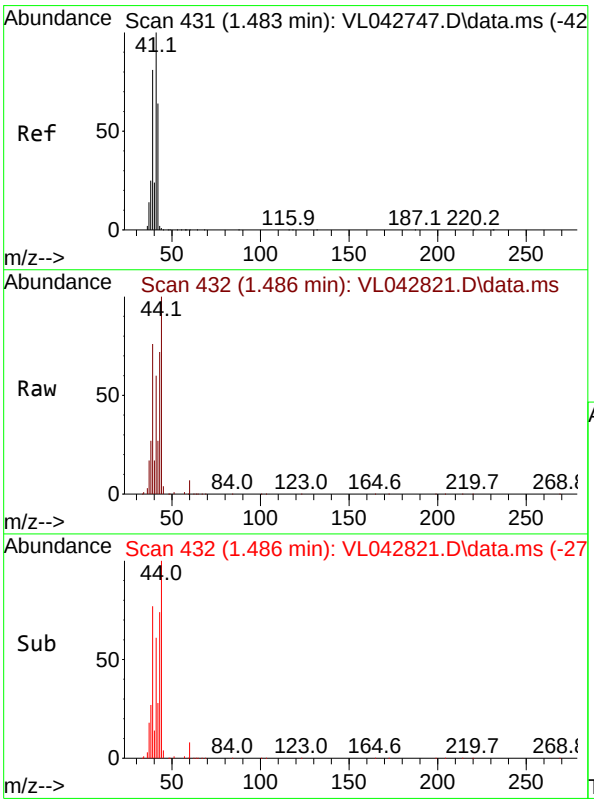
Ion	Ratio	Lower	Upper
50	100		
52	39.0	26.6	40.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Manual Integrations
APPROVED

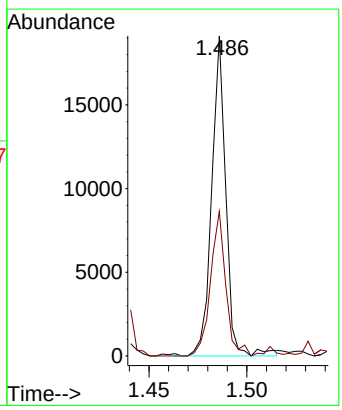
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

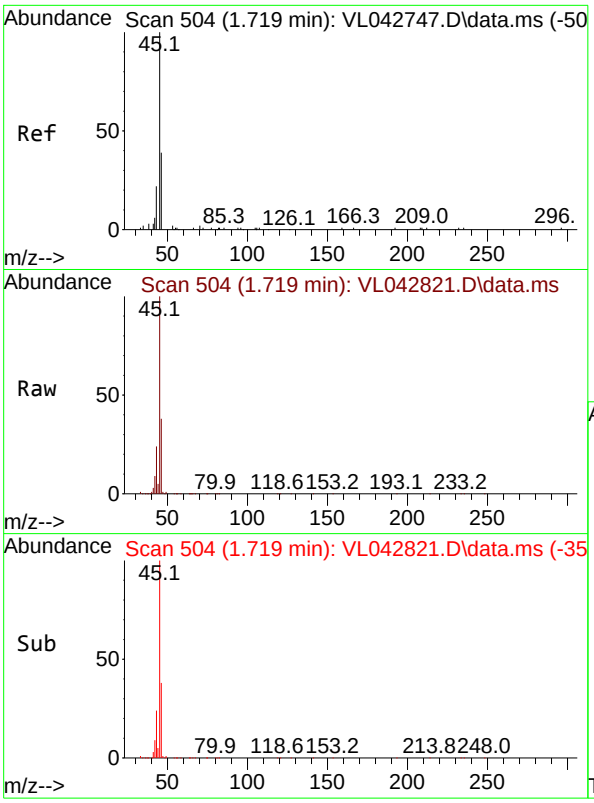


#9
Propene
Concen: 1.033 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 41 Resp: 9579

Ion	Ratio	Lower	Upper
41	100		
42	8052.3	53.2	79.8#

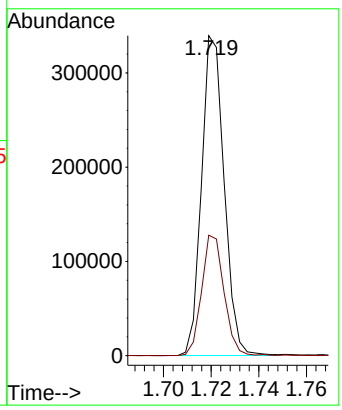




#13
Ethanol
Concen: 330.517 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 45 Resp: 22390

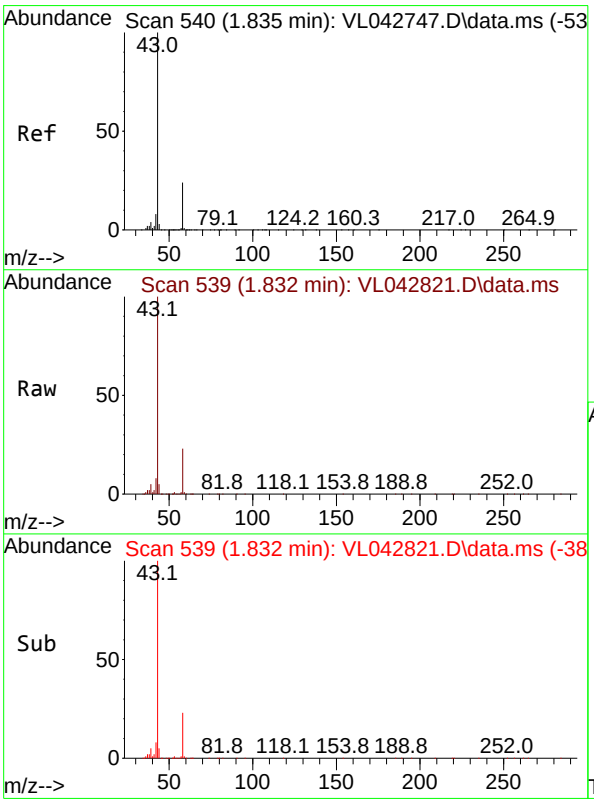
Ion	Ratio	Lower	Upper
45	100		
46	37.8	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Manual Integrations
APPROVED

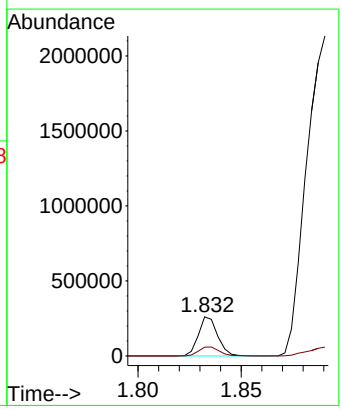
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

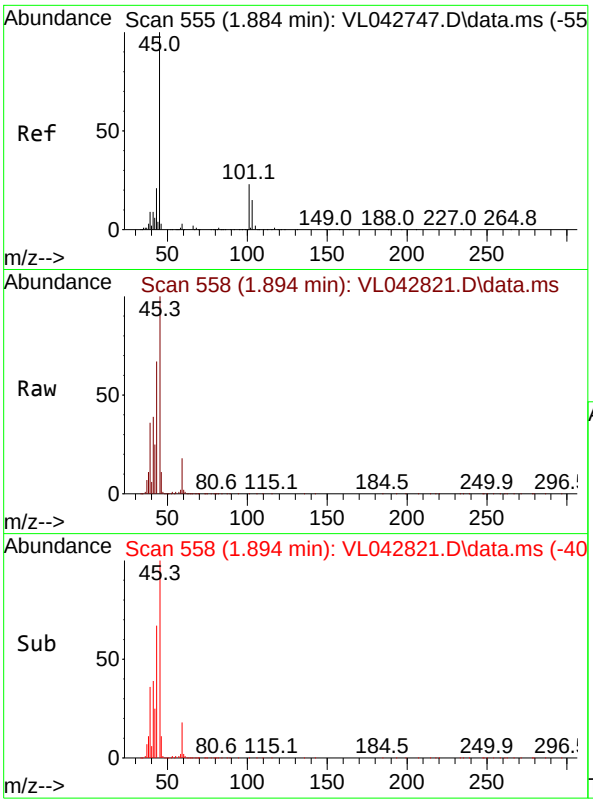


#15
Acetone
Concen: 8.215 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 43 Resp: 168012

Ion	Ratio	Lower	Upper
43	100		
58	25.3	19.8	29.8

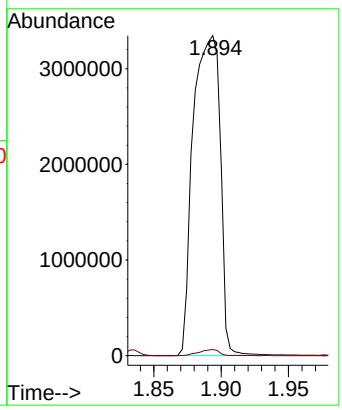




#19
Isopropyl Alcohol
Concen: 429.964 ppbv
RT: 1.894 min Scan# 5
Delta R.T. 0.010 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 45 Resp: 467305

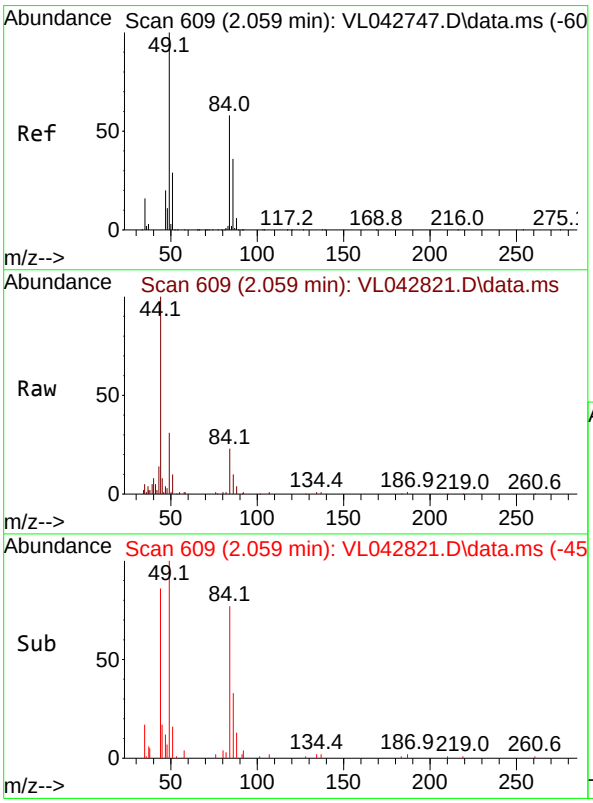
Ion	Ratio	Lower	Upper
45	100		
58	1.5	30.0	45.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Manual Integrations
APPROVED

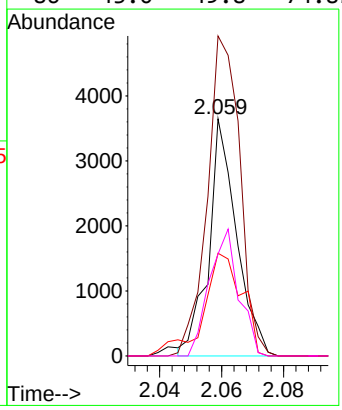
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

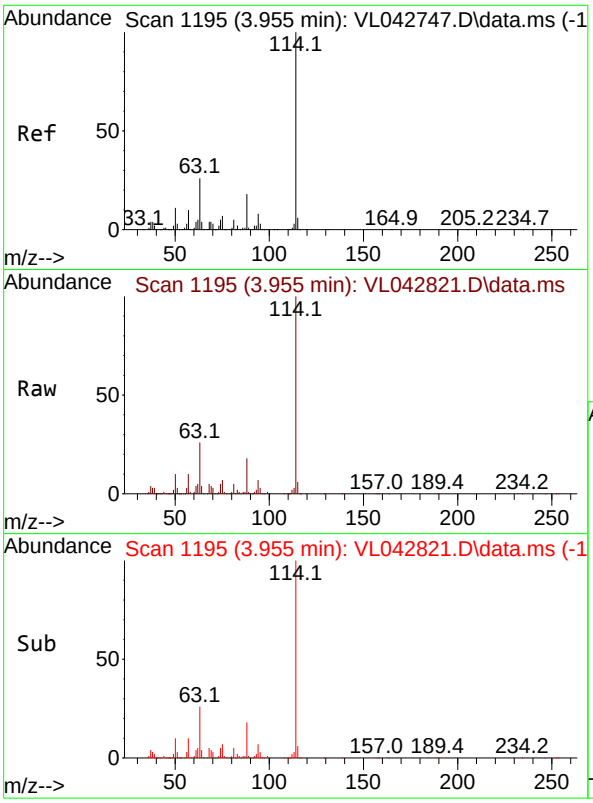


#20
Methylene Chloride
Concen: 0.353 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 84 Resp: 2276

Ion	Ratio	Lower	Upper
84	100		
49	134.9	138.6	208.0#
51	43.3	40.6	61.0
86	43.0	49.8	74.8#

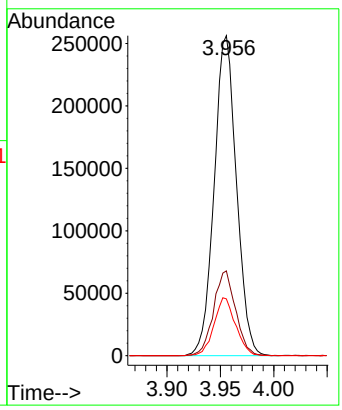




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion:114 Resp: 37135

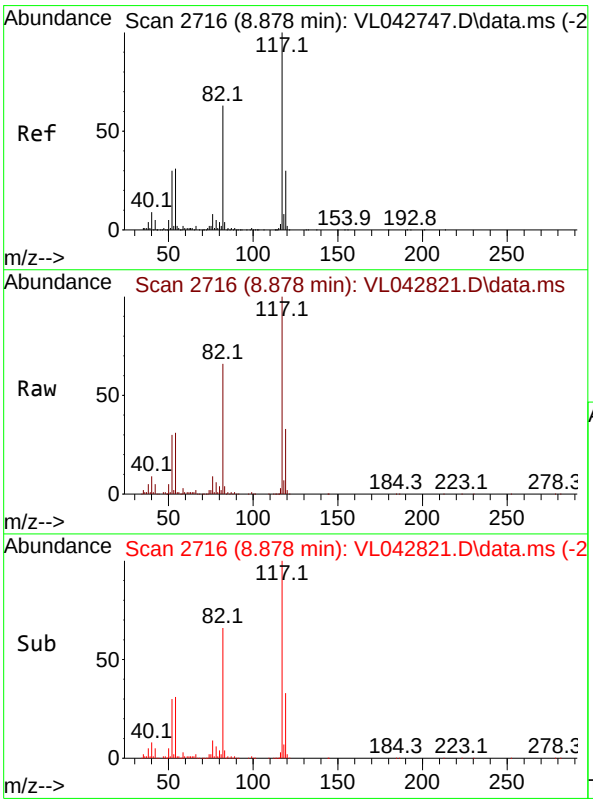
Ion	Ratio	Lower	Upper
114	100		
63	26.4	20.5	30.7
88	17.6	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Manual Integrations
APPROVED

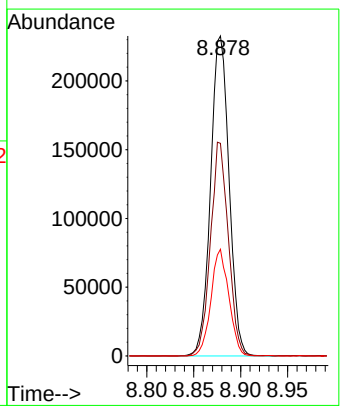
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

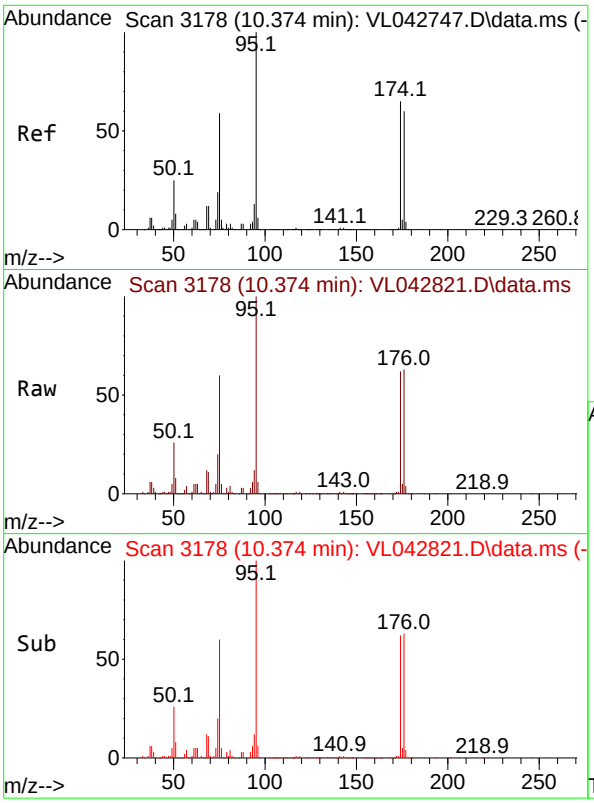


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion:117 Resp: 318755

Ion	Ratio	Lower	Upper
117	100		
82	64.6	53.3	79.9
119	32.2	25.8	38.6

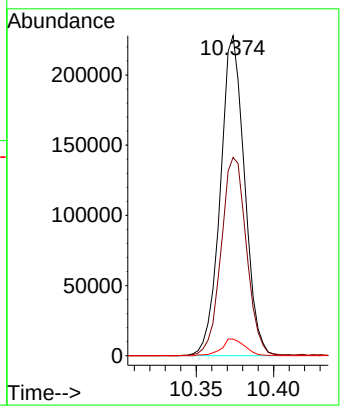




#68
1-Bromo-4-Fluorobenzene
Concen: 9.801 ppbv
RT: 10.374 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 95 Resp: 24740

Ion	Ratio	Lower	Upper
95	100		
174	65.4	53.8	80.6
175	5.1	4.0	6.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-3	SDG No.:	Q2750
Lab Sample ID:	Q2750-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042801.D	1		08/04/25 12:56	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.55	2.72		0.54	2.47	ug/m3
74-87-3	Chloromethane	0.64	1.32		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.37	1.09	J	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	98.0	233	E	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	3.40	10.6		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	1.60	5.56		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	1.10	3.24		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.56	2.73		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.28	0.89	J	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.80	3.01		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-3	SDG No.:	Q2750
Lab Sample ID:	Q2750-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042801.D	1		08/04/25 12:56	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.23	0.98	J	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.48	2.52		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	1.70	5.99		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	J	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			70 (65) - 130 (135)	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	167000		2.787			
540-36-3	1,4-Difluorobenzene	475000		3.956			
3114-55-4	Chlorobenzene-d5	414000		8.878			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	56.1		J		1.47	ppbv
115-07-1	Propene	18.2		J		1.49	ppbv
64-17-5	Ethanol	6500		J		1.73	ppbv

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-3	SDG No.:	Q2750
Lab Sample ID:	Q2750-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042801.D	1		08/04/25 12:56	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	2200		J		1.99	ppbv
141-78-6	Ethyl Acetate	5.60		J		2.84	ppbv
000080-56-8	.alpha.-Pinene	5.20		J		10.9	ppbv
018172-67-3	Bicyclo[3.1.1]heptane, 6,6-dimethy	7.30		J		11.4	ppbv
013466-78-9	3-Carene	11.1		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.66		J		11.9	ppbv
005989-27-5	D-Limonene	30.7		J		12.0	ppbv
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	4.80		J		13.4	ppbv

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\VL080425\
Data File : VL042801.D
Acq On : 04 Aug 2025 12:56
Operator : SY/MD
Sample : Q2750-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:03:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	166612	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	474561	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	413546	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	344382	10.515	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	12194m	0.554	ppbv	
3) Chlorodifluoromethane	1.473	51	1610964	56.139	ppbv #	82
4) Chloromethane	1.531	50	5658	0.635	ppbv	90
9) Propene	1.486	41	190239m	18.241	ppbv	
11) Trichlorofluoromethane	1.874	101	4819	0.212	ppbv	97
13) Ethanol	1.725	45	4909025	6463.202	ppbv	94
15) Acetone	1.832	43	2255724	98.047	ppbv #	78
19) Isopropyl Alcohol	1.991	45	26462371	2164.446	ppbv #	38
20) Methylene Chloride	2.062	84	11537	1.591	ppbv	95
25) Ethyl Acetate	2.842	43	282908m	5.555	ppbv	
26) Hexane	2.823	57	38882	1.741	ppbv #	1
27) Carbon Disulfide	2.146	76	64759	3.386	ppbv #	65
29) Chloroform	2.849	83	19459	0.564	ppbv	92
34) 2-Butanone	2.567	43	38173	1.136	ppbv	93
35) Carbon Tetrachloride	3.758	117	2430m	0.069	ppbv	
36) Benzene	3.655	78	12792	0.284	ppbv #	85
41) Tetrahydrofuran	3.069	42	6398m	0.374	ppbv	
43) Methyl Methacrylate	4.868	69	2321m	0.145	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	7555m	0.103	ppbv	
53) Toluene	6.927	91	38671m	0.801	ppbv	
59) m/p-Xylene	9.529	91	11076m	0.212	ppbv	
61) Styrene	9.869	104	4962	0.226	ppbv	95
69) p-Isopropyltoluene	11.927	119	52018	0.656	ppbv	93
74) 1,2,4-Trimethylbenzene	11.539	105	8019	0.143	ppbv #	58
79) Naphthalene	13.513	128	2540	0.475	ppbv #	96

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

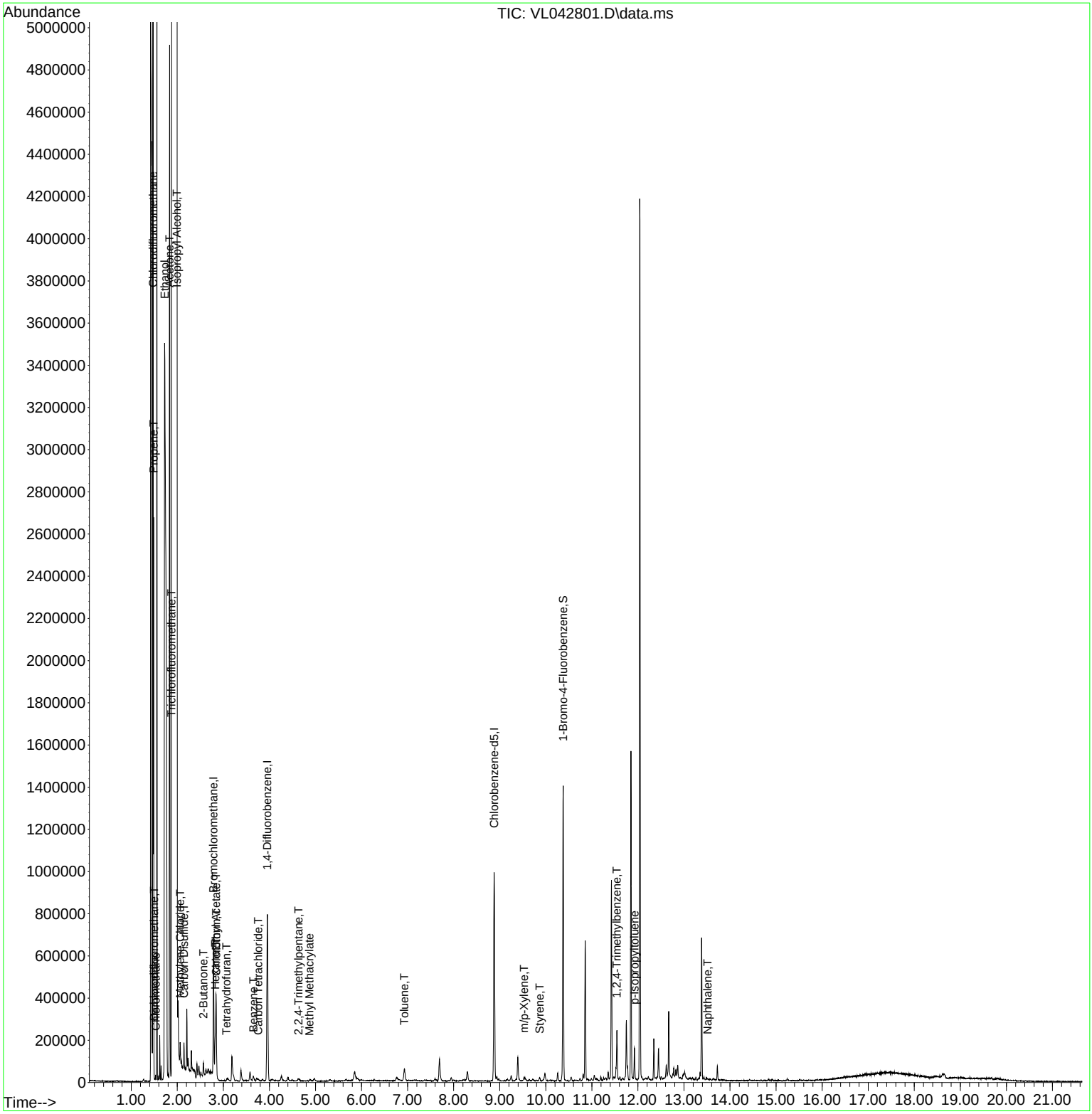
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042801.D
Acq On : 04 Aug 2025 12:56
Operator : SY/MD
Sample : Q2750-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

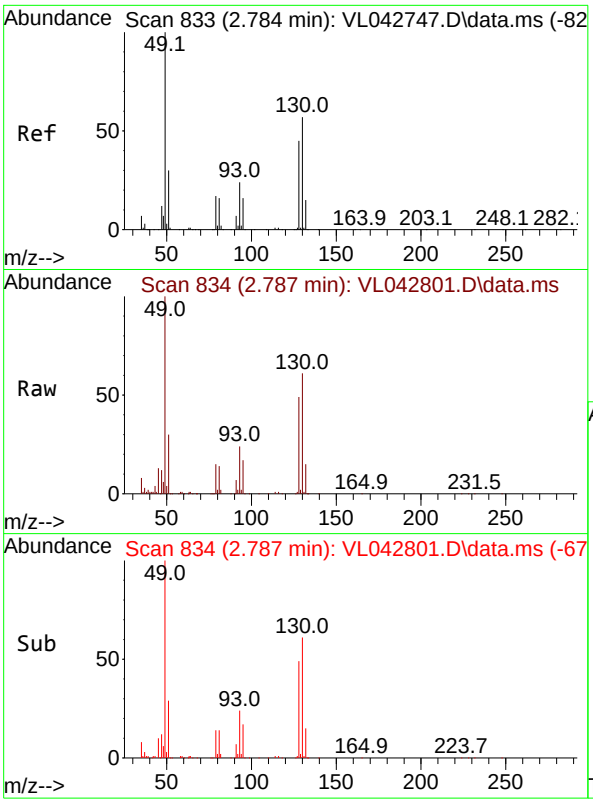
Quant Time: Aug 05 01:03:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

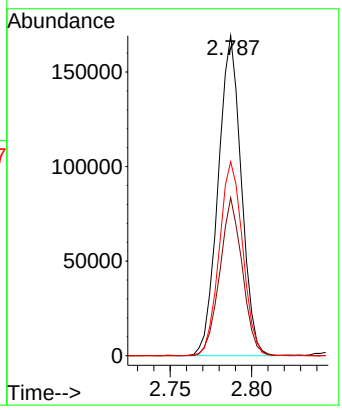




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 49 Resp: 16661

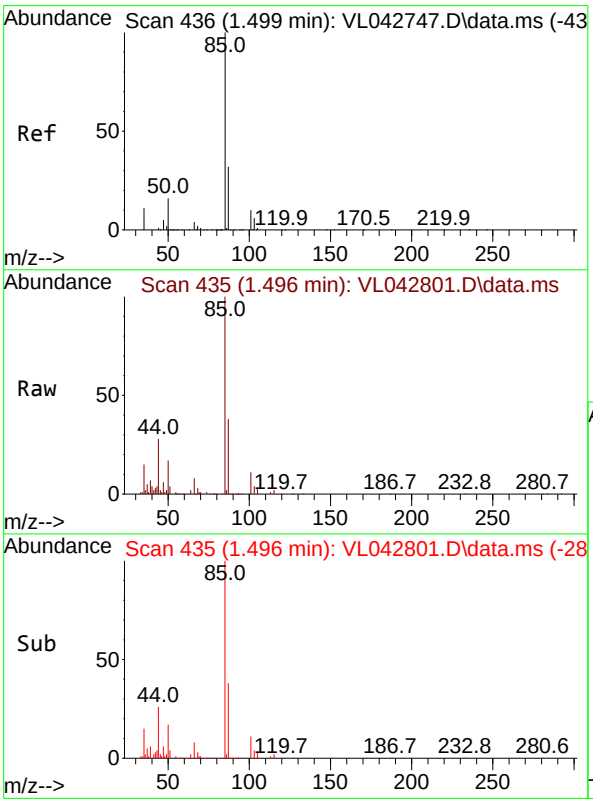
Ion	Ratio	Lower	Upper
49	100		
128	48.0	23.6	71.0
130	61.6	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

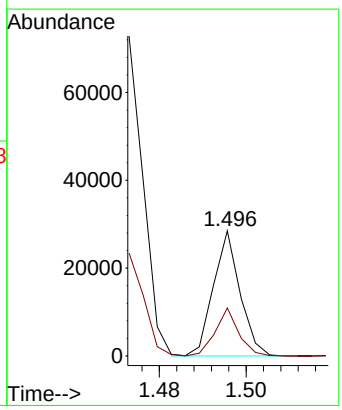
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

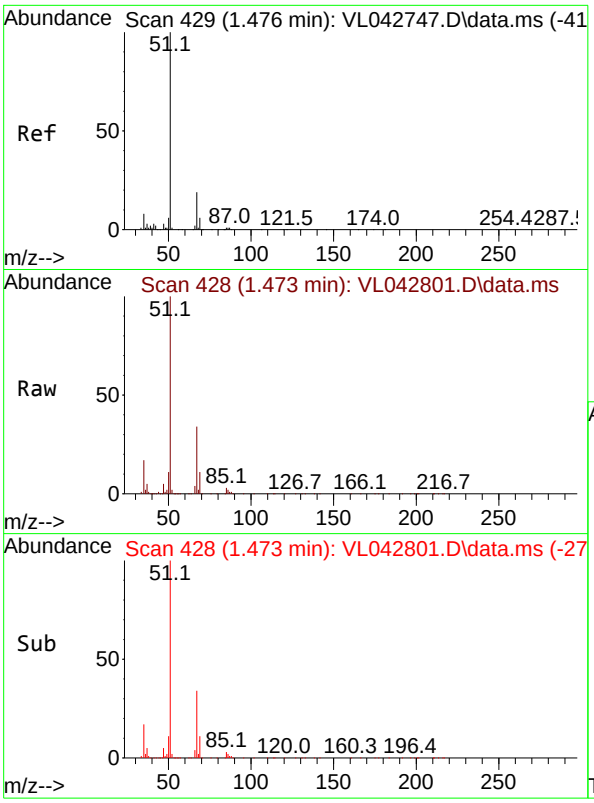


#2
Dichlorodifluoromethane
Concen: 0.554 ppbv m
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 85 Resp: 12194

Ion	Ratio	Lower	Upper
85	100		
87	38.3	25.4	38.2#

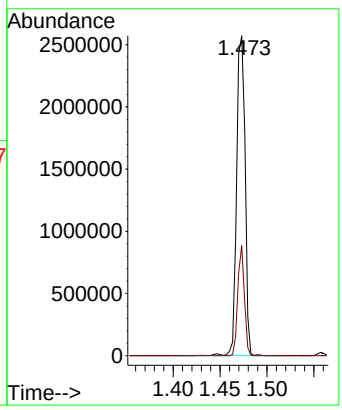




#3
Chlorodifluoromethane
Concen: 56.139 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 51 Resp: 161096

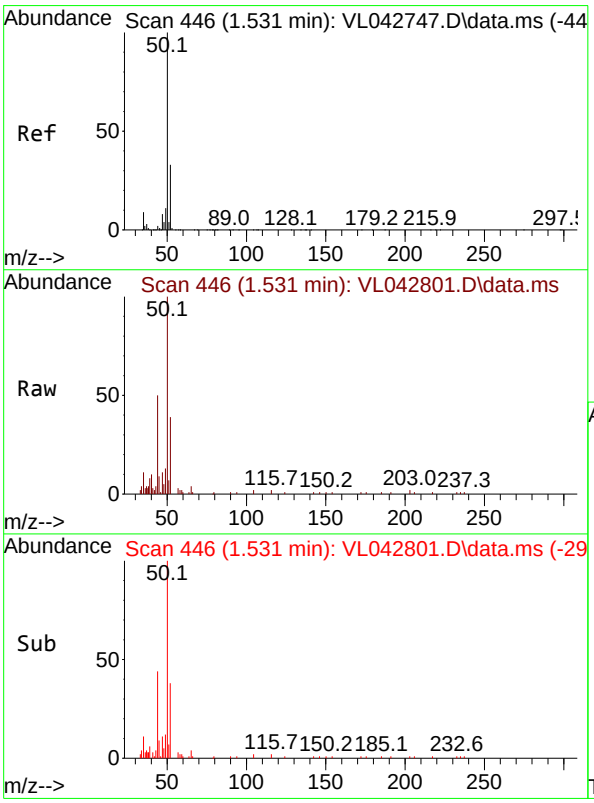
Ion	Ratio	Lower	Upper
51	100		
67	26.7	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

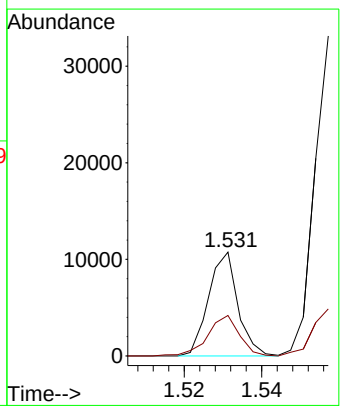
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

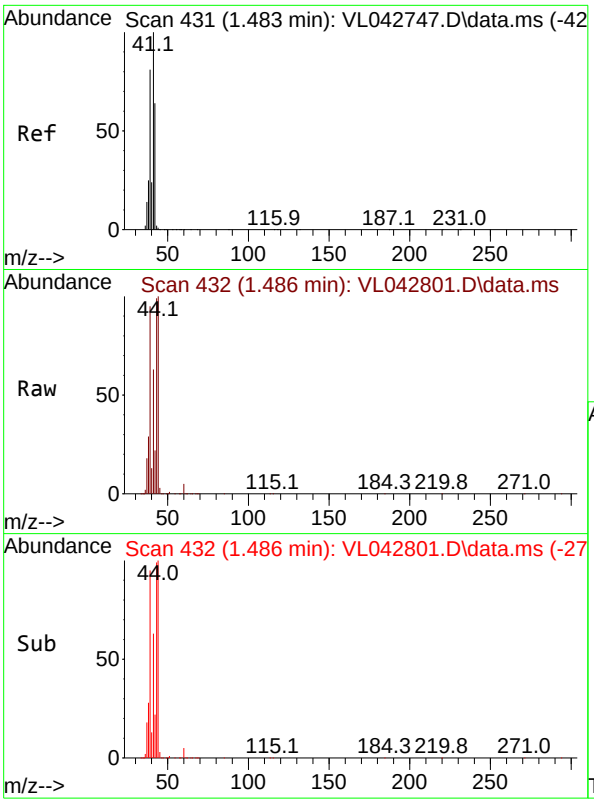


#4
Chloromethane
Concen: 0.635 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 50 Resp: 5658

Ion	Ratio	Lower	Upper
50	100		
52	38.9	26.6	40.0

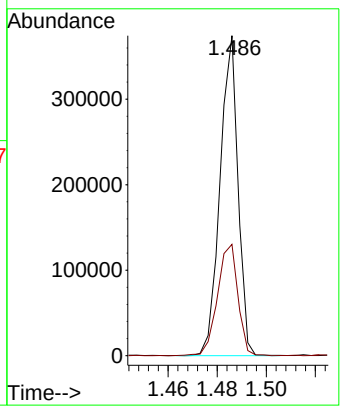




#9
Propene
Concen: 18.241 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 41 Resp: 19023

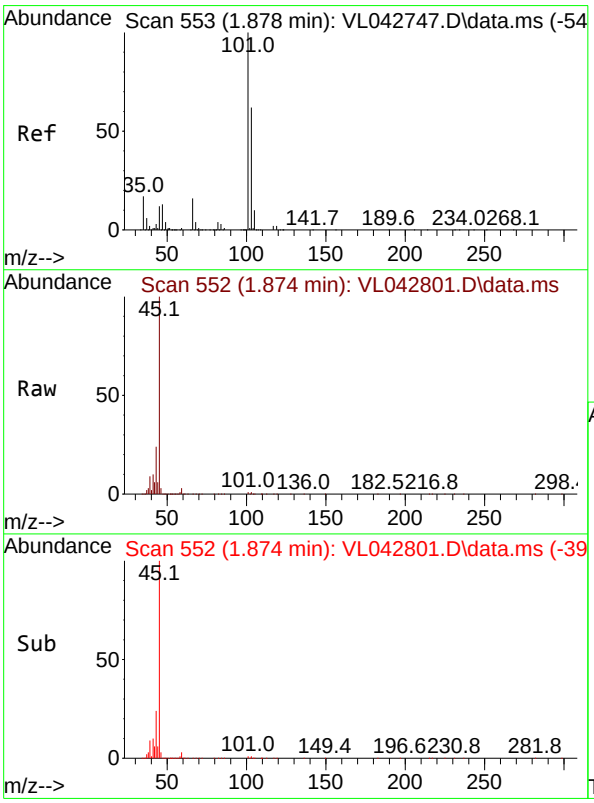
Ion	Ratio	Lower	Upper
41	100		
42	236.7	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

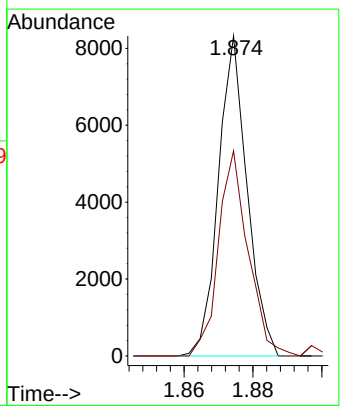
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

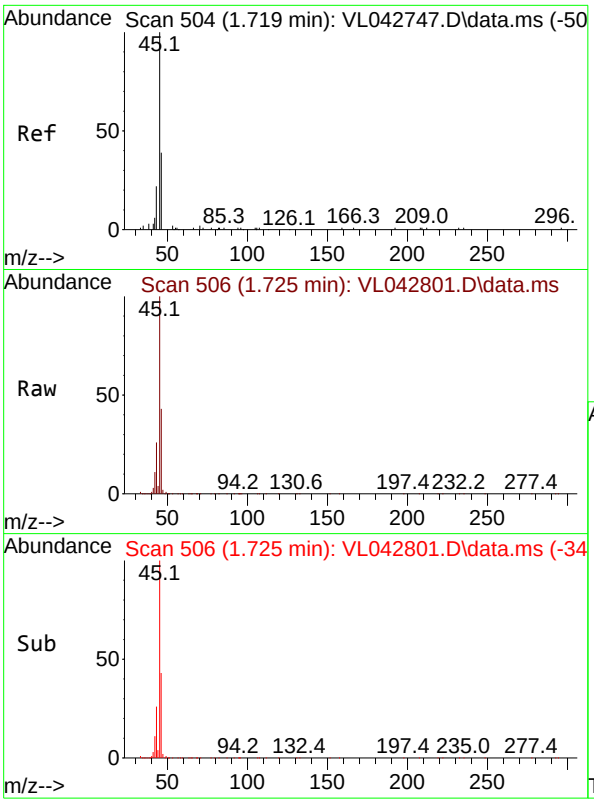


#11
Trichlorofluoromethane
Concen: 0.212 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:101 Resp: 4819

Ion	Ratio	Lower	Upper
101	100		
103	64.1	49.6	74.4

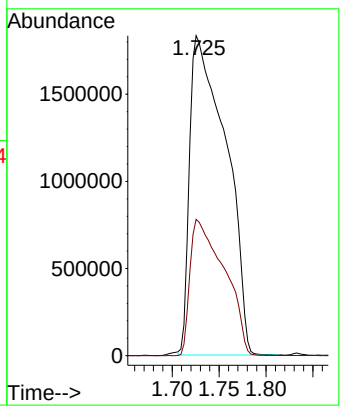




#13
Ethanol
Concen: 6463.202 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 45 Resp: 490902

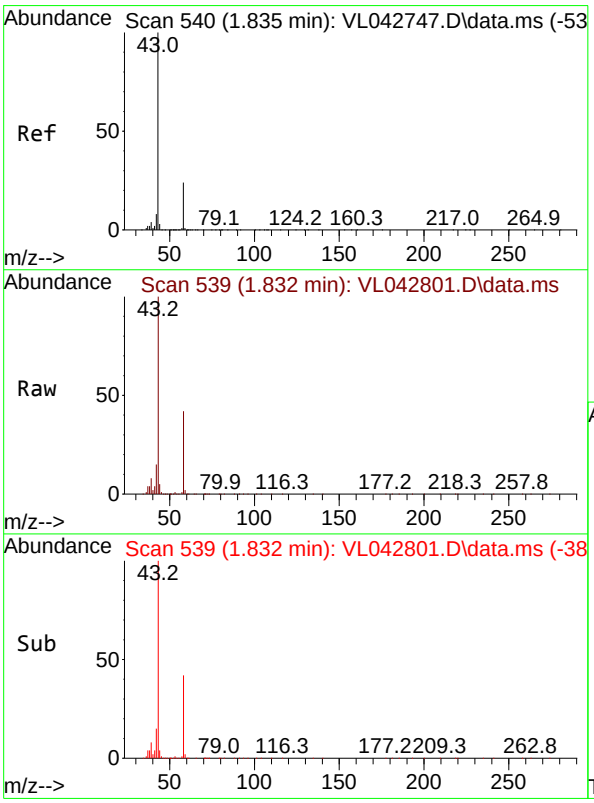
Ion	Ratio	Lower	Upper
45	100		
46	40.7	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

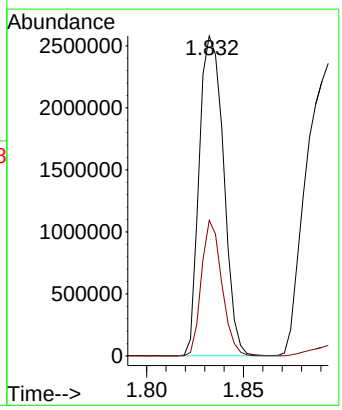
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

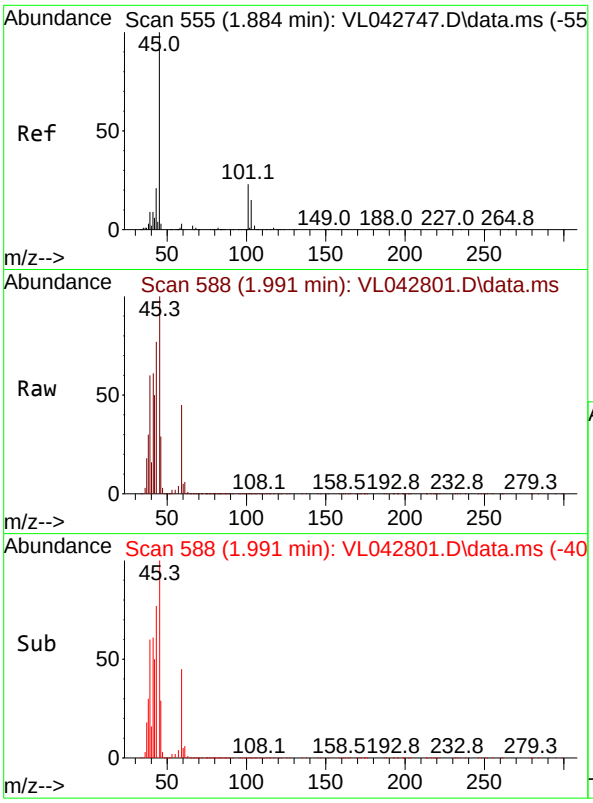


#15
Acetone
Concen: 98.047 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 43 Resp: 2255724

Ion	Ratio	Lower	Upper
43	100		
58	35.6	19.8	29.8#

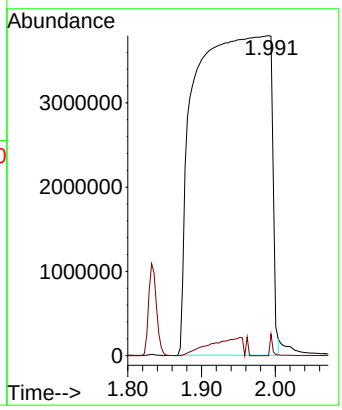




#19
Isopropyl Alcohol
Concen: 2164.446 ppbv
RT: 1.991 min Scan# 5
Delta R.T. 0.107 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 45 Resp:2646237

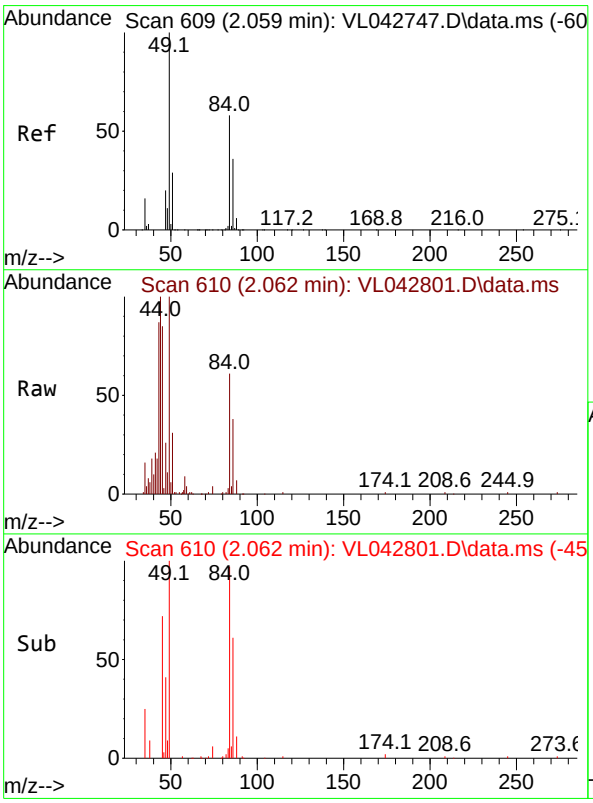
Ion	Ratio	Lower	Upper
45	100		
58	0.3	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

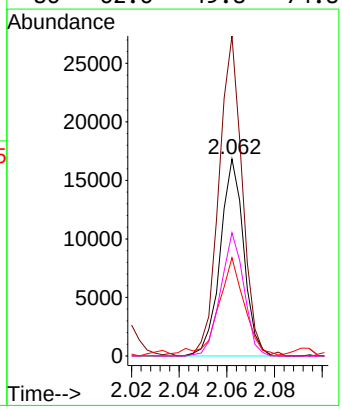
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

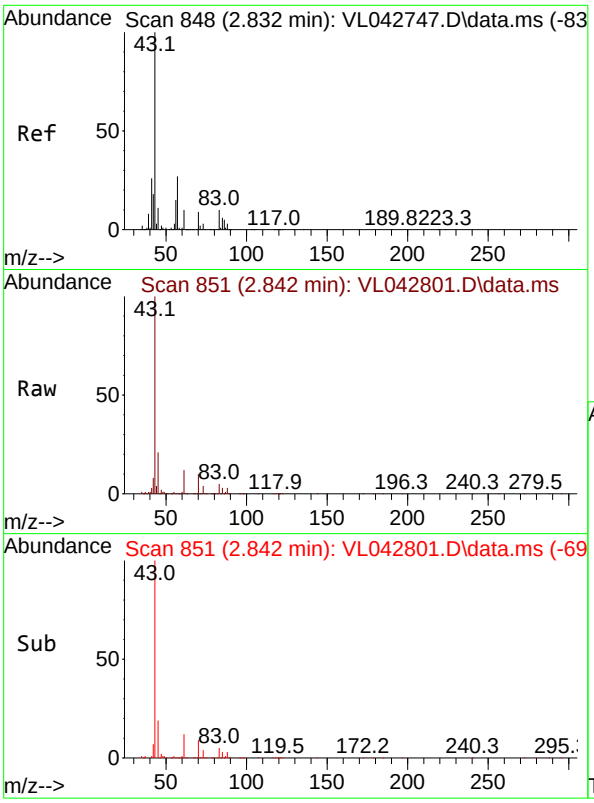


#20
Methylene Chloride
Concen: 1.591 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 84 Resp: 11537

Ion	Ratio	Lower	Upper
84	100		
49	162.5	138.6	208.0
51	49.4	40.6	61.0
86	62.6	49.8	74.8

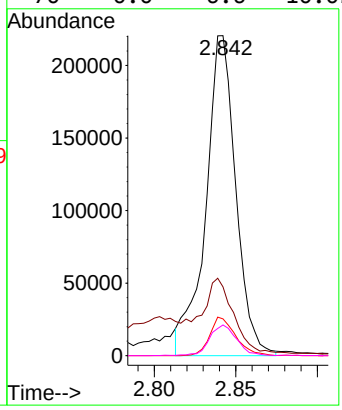




#25
Ethyl Acetate
Concen: 5.555 ppbv m
RT: 2.842 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 43 Resp: 28290

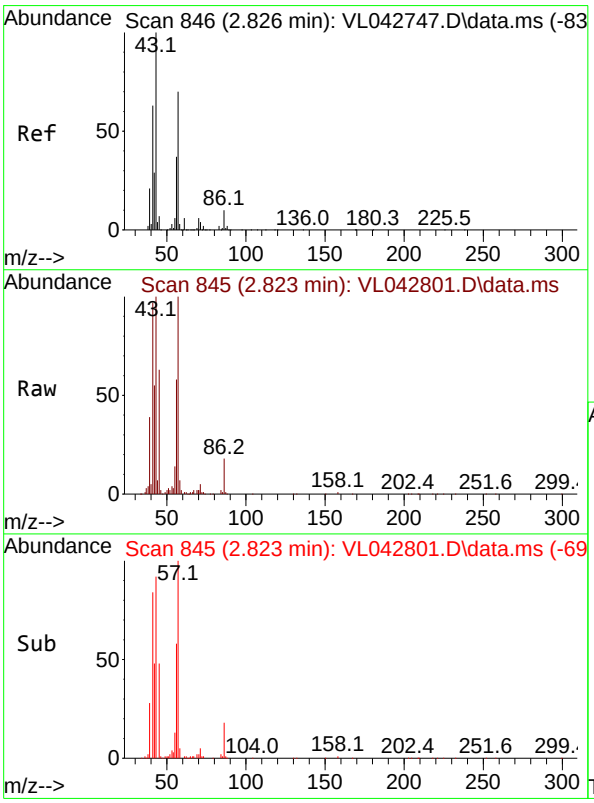
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	6.7	10.1#
70	0.0	6.6	10.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

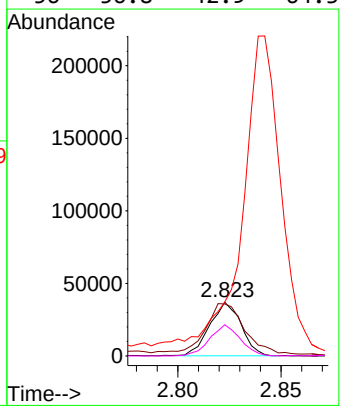
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

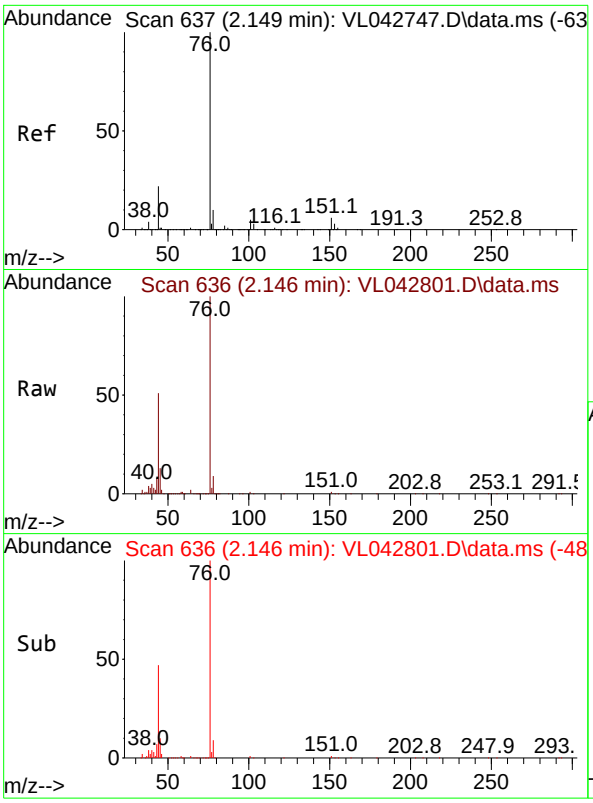


#26
Hexane
Concen: 1.741 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 57 Resp: 38882

Ion	Ratio	Lower	Upper
57	100		
41	138.8	75.4	113.2#
43	810.0	185.0	277.6#
56	56.8	42.9	64.3





#27
Carbon Disulfide
Concen: 3.386 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

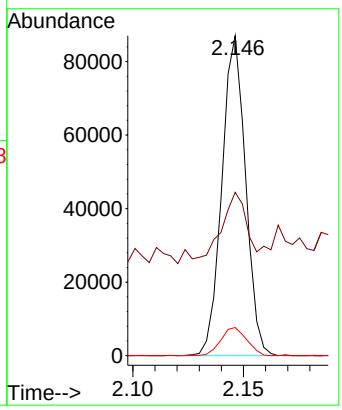
Tgt Ion: 76 Resp: 6475

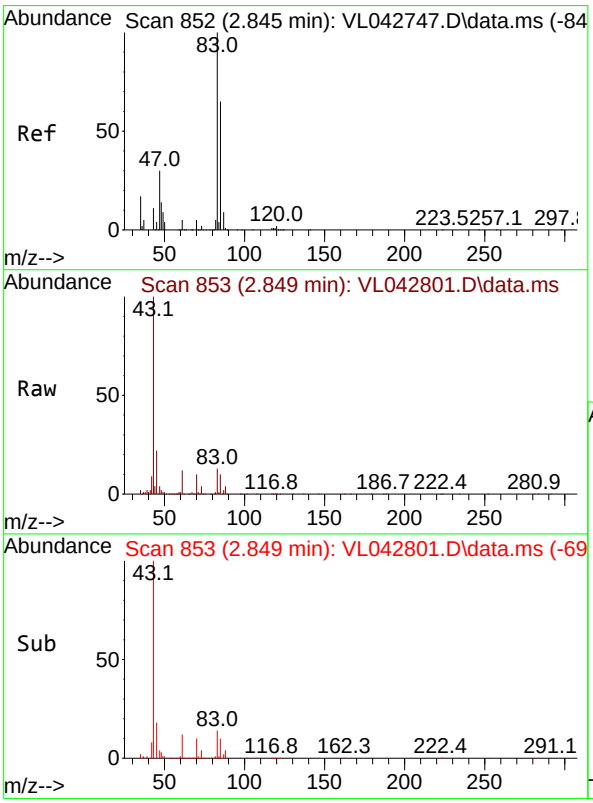
Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.7	9.9	14.9#

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

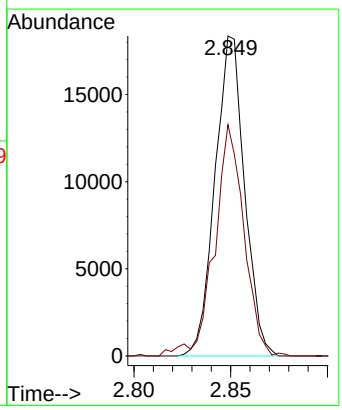


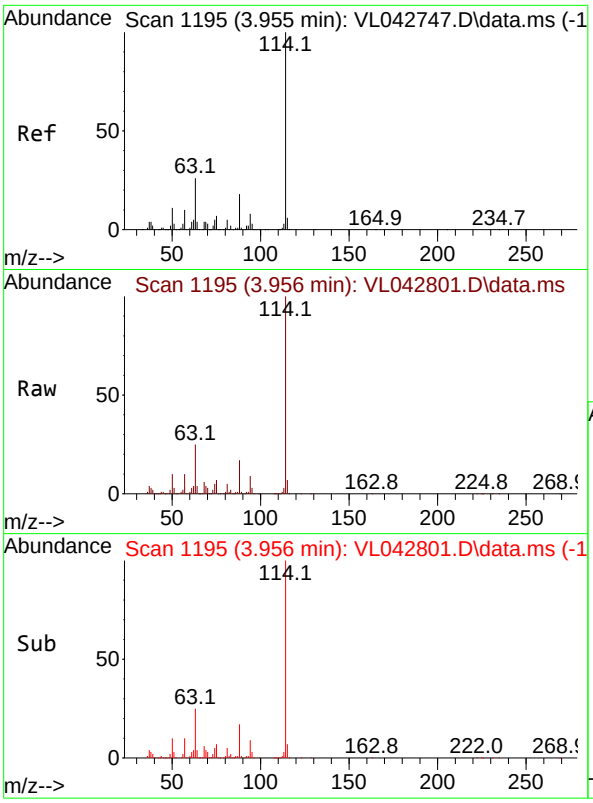


#29
Chloroform
Concen: 0.564 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 83 Resp: 19459

Ion	Ratio	Lower	Upper
83	100		
85	71.4	52.2	78.2

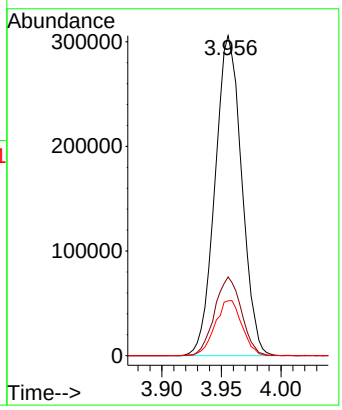




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:114 Resp: 47456

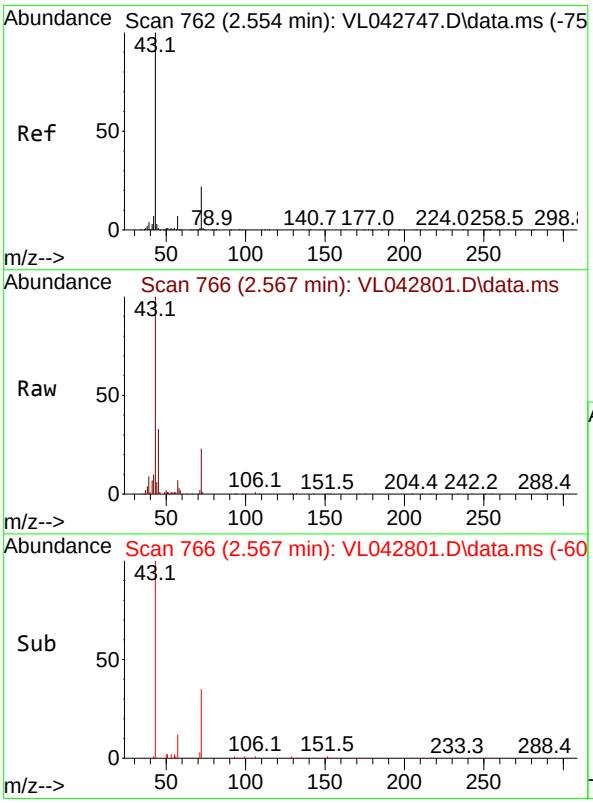
Ion	Ratio	Lower	Upper
114	100		
63	24.8	20.5	30.7
88	17.4	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

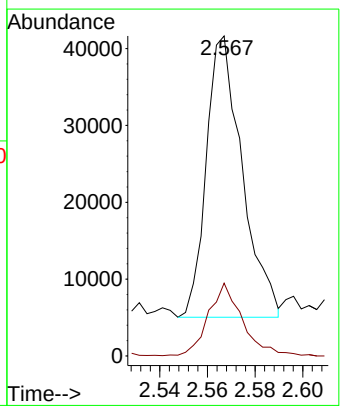
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

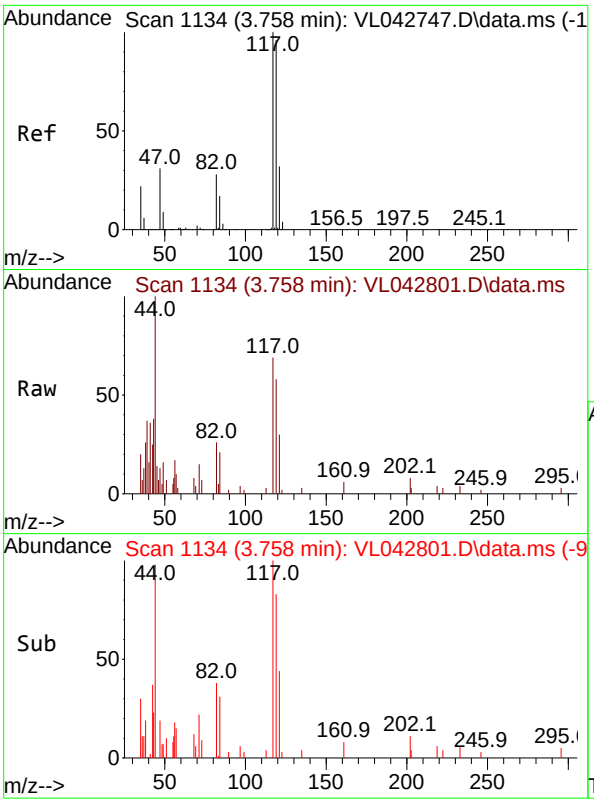


#34
2-Butanone
Concen: 1.136 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 43 Resp: 38173

Ion	Ratio	Lower	Upper
43	100		
72	24.8	17.4	26.0

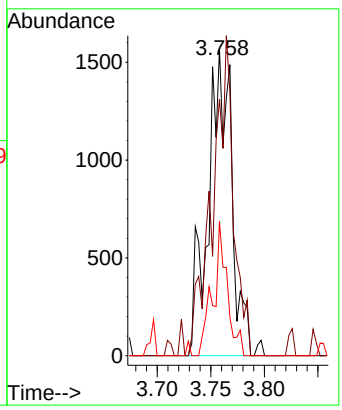




#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 3.758 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:117 Resp: 243

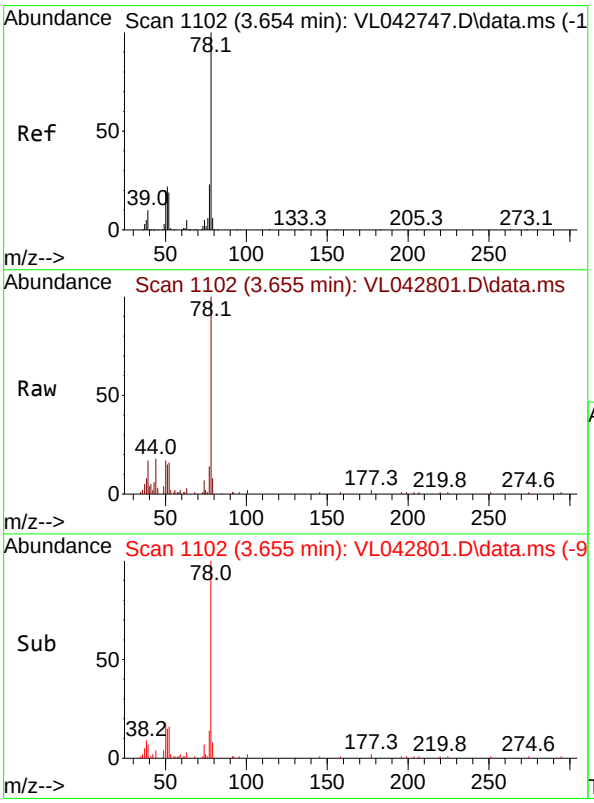
Ion	Ratio	Lower	Upper
117	100		
119	83.5	77.1	115.7
121	43.6	25.5	38.3#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

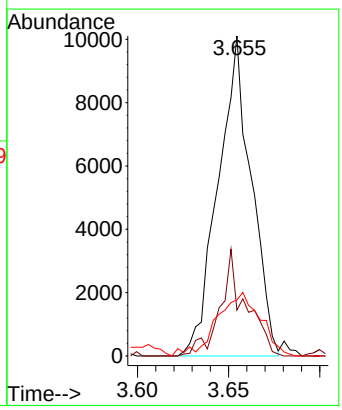
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

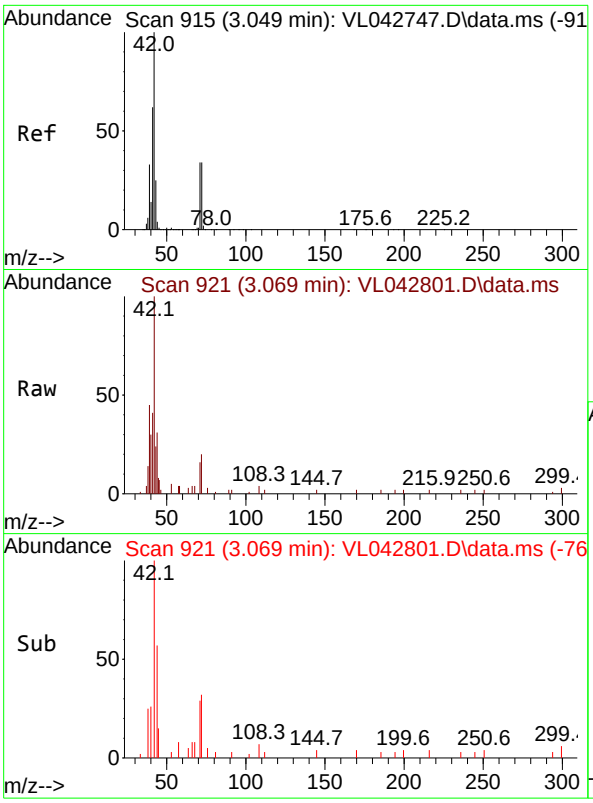


#36
Benzene
Concen: 0.284 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 78 Resp: 12792

Ion	Ratio	Lower	Upper
78	100		
77	14.4	18.5	27.7#
50	15.2	16.2	24.2#

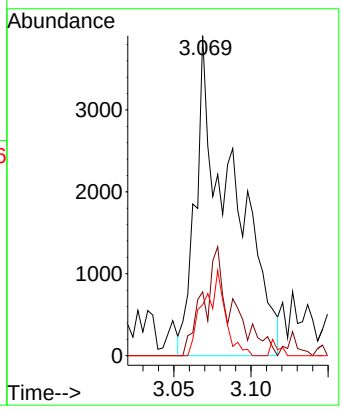




#41
Tetrahydrofuran
Concen: 0.374 ppbv m
RT: 3.069 min Scan# 9
Delta R.T. 0.020 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 42 Resp: 639

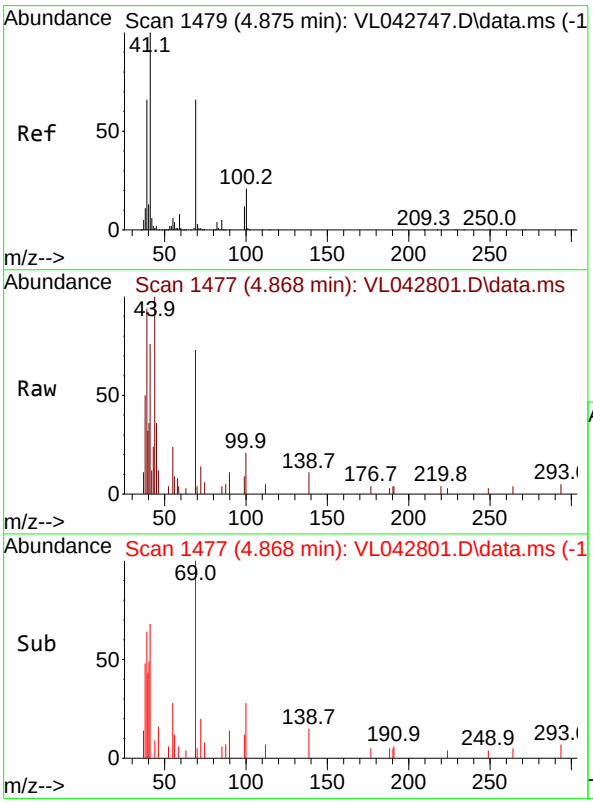
Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	0.0	28.6	43.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

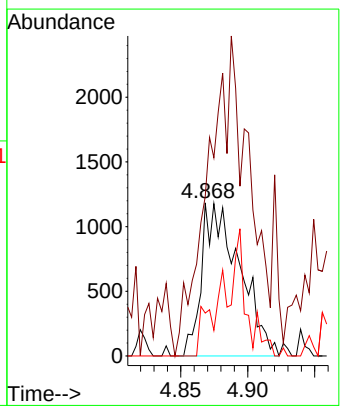
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

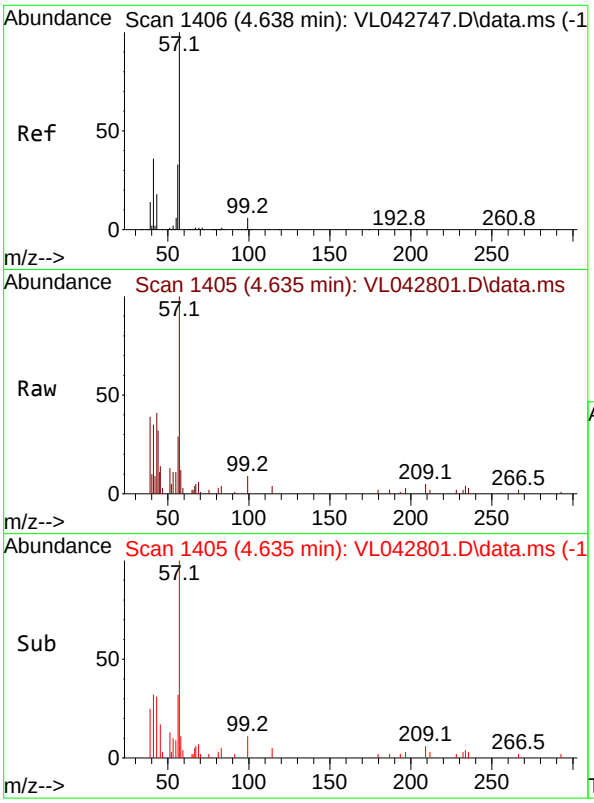


#43
Methyl Methacrylate
Concen: 0.145 ppbv m
RT: 4.868 min Scan# 1477
Delta R.T. -0.006 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 69 Resp: 2321

Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	0.0	28.6	42.8#

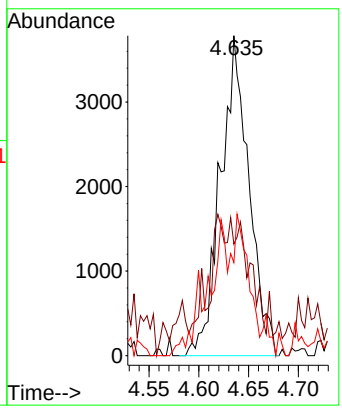




#44
2,2,4-Trimethylpentane
Concen: 0.103 ppbv m
RT: 4.635 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 57 Resp: 755

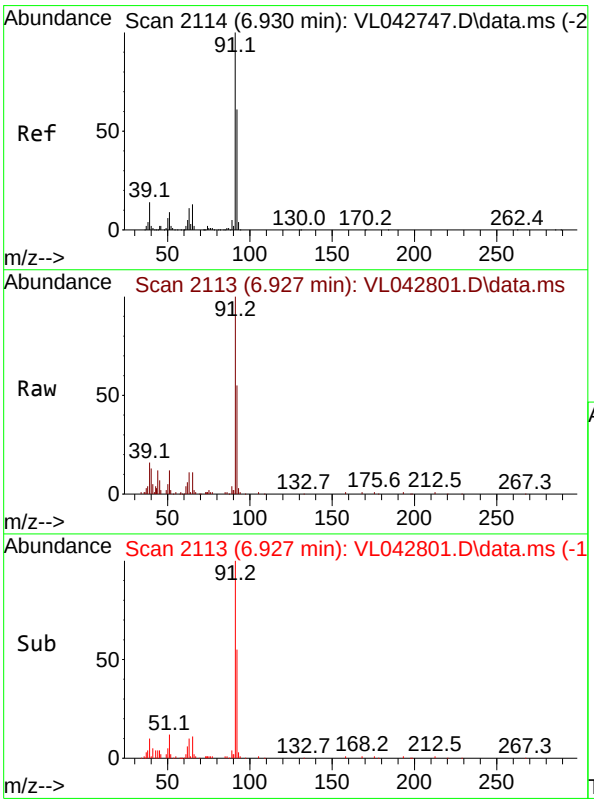
Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.3	42.5#
56	59.2	25.8	38.6#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

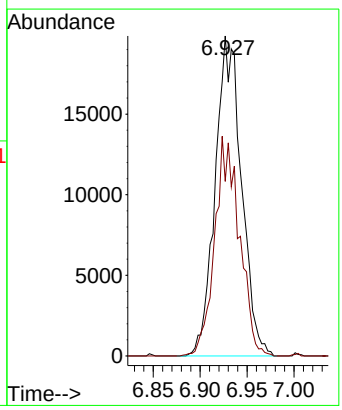
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

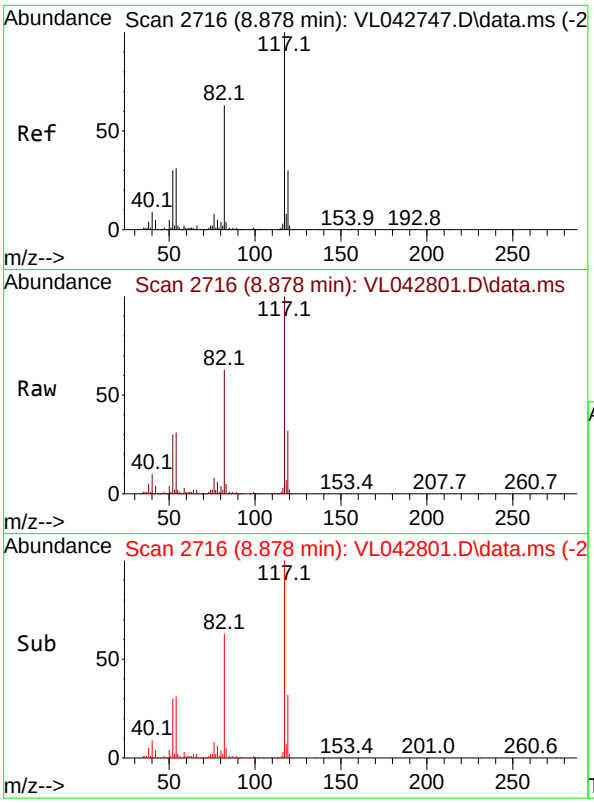


#53
Toluene
Concen: 0.801 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 91 Resp: 38671

Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.0	72.0#

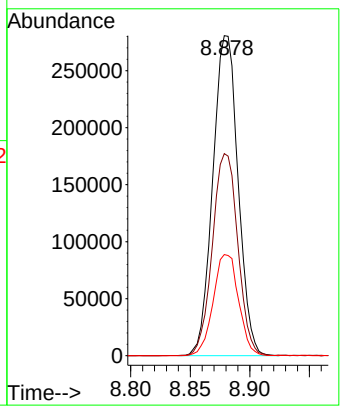




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:117 Resp: 41354

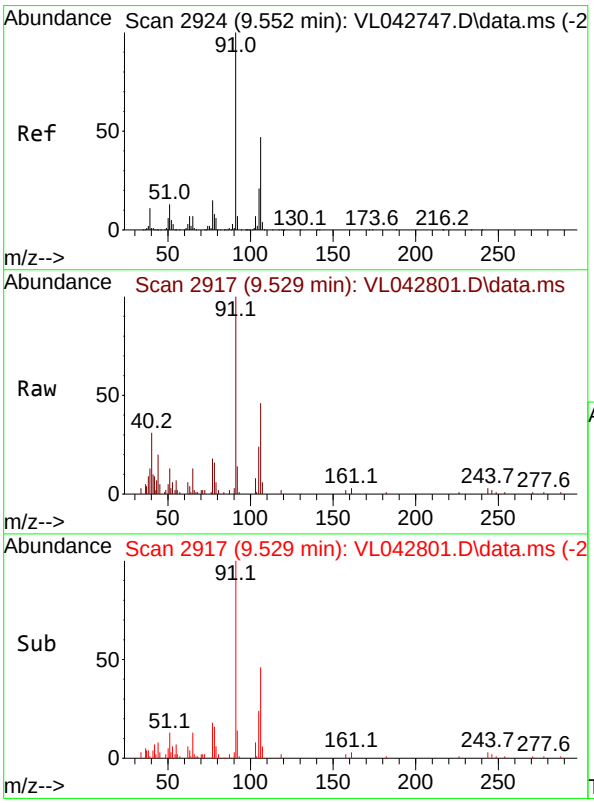
Ion	Ratio	Lower	Upper
117	100		
82	63.7	53.3	79.9
119	31.8	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

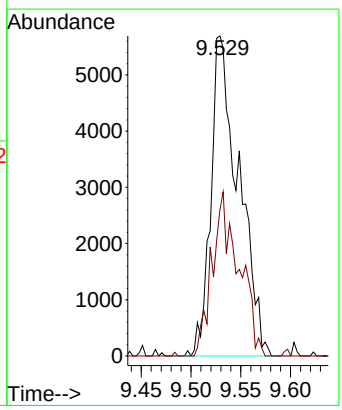
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

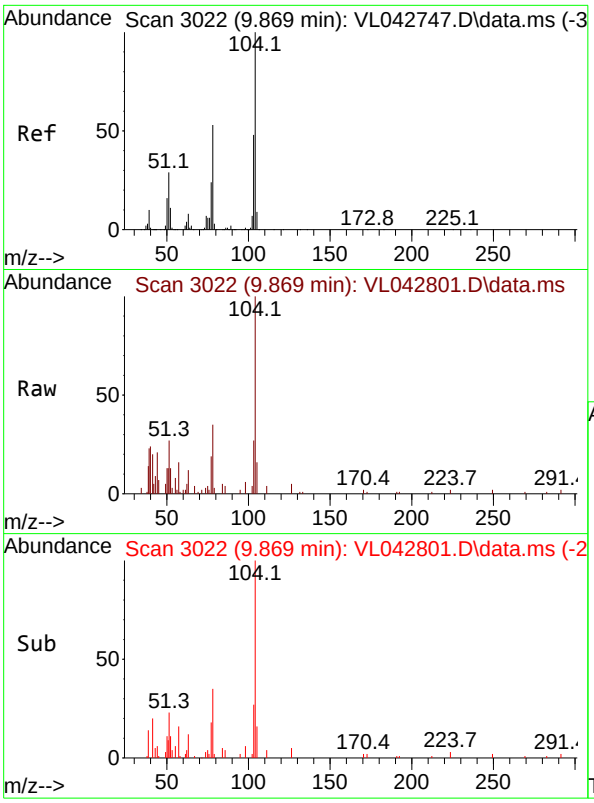


#59
m/p-Xylene
Concen: 0.212 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 91 Resp: 11076

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

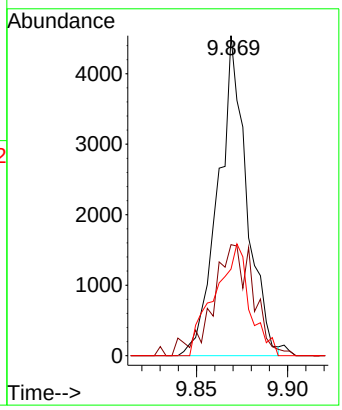




#61
Styrene
Concen: 0.226 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:104 Resp: 496

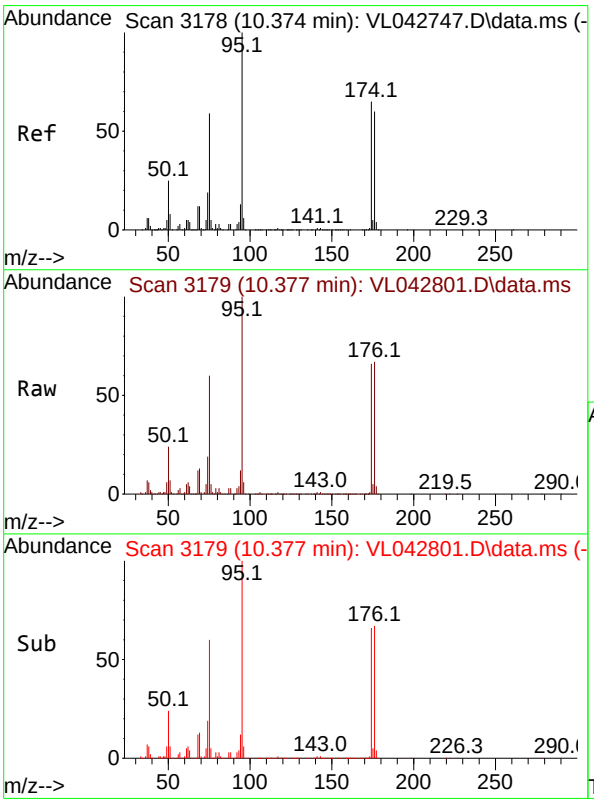
Ion	Ratio	Lower	Upper
104	100		
78	49.7	41.5	62.3
103	42.8	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

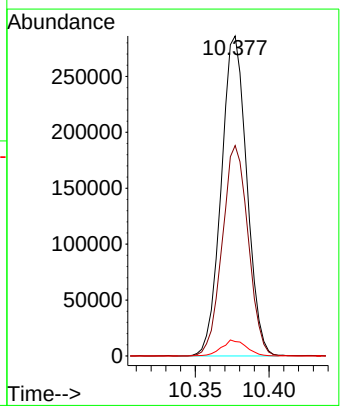
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

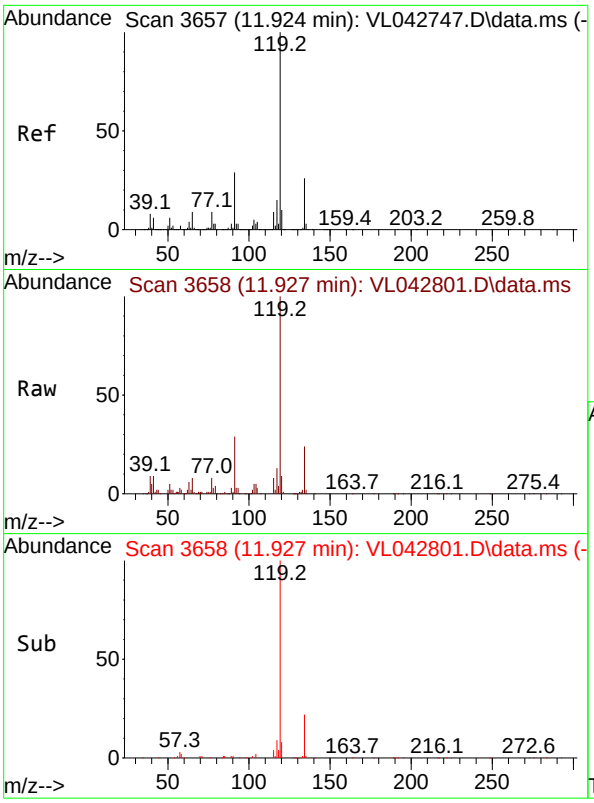


#68
1-Bromo-4-Fluorobenzene
Concen: 10.515 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 95 Resp: 344382

Ion	Ratio	Lower	Upper
95	100		
174	66.7	53.8	80.6
175	4.9	4.0	6.0

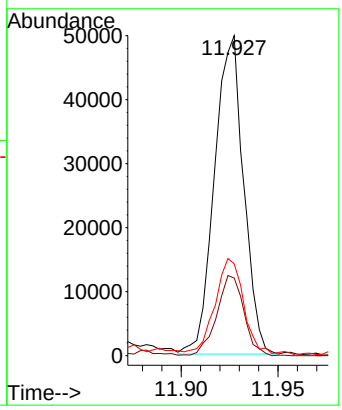




#69
p-Isopropyltoluene
Concen: 0.656 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:119 Resp: 5201

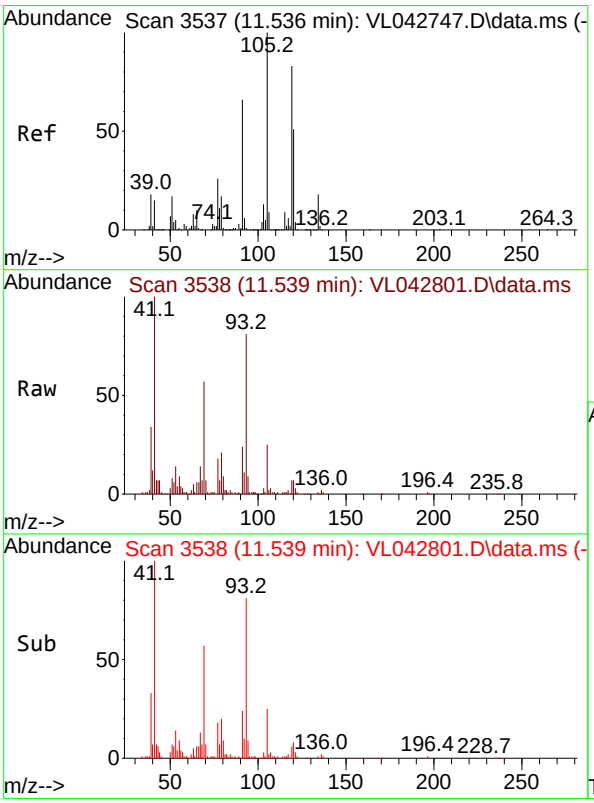
Ion	Ratio	Lower	Upper
119	100		
134	23.4	20.6	31.0
91	33.4	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

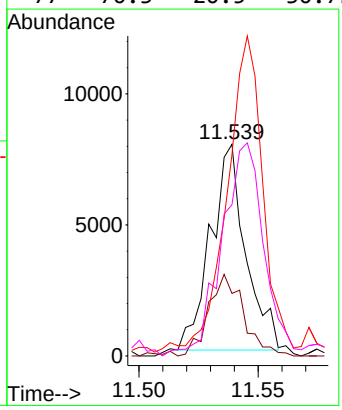
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

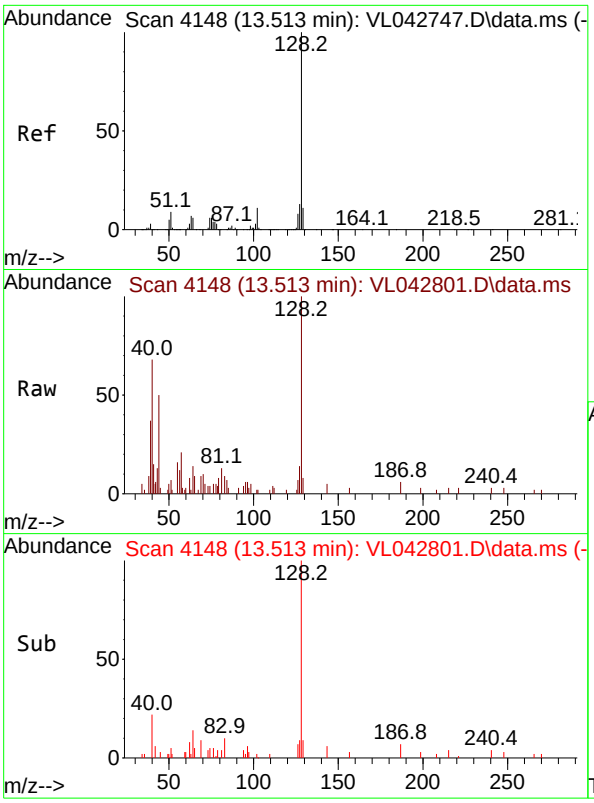


#74
1,2,4-Trimethylbenzene
Concen: 0.143 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:105 Resp: 8019

Ion	Ratio	Lower	Upper
105	100		
120	30.4	40.8	61.2#
91	92.8	53.0	79.4#
77	70.3	20.5	30.7#

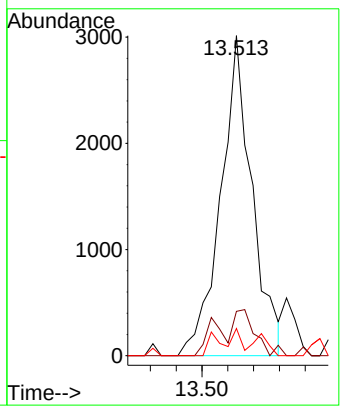




#79
Naphthalene
Concen: 0.475 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:128 Resp: 254

Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.5	15.7
129	8.5	8.6	13.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042801.D
Acq On : 04 Aug 2025 12:56
Operator : SY/MD
Sample : Q2750-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042801.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.421	409	412	416	rBV	5022723	5049182	7.29%	3.208%
2	1.437	416	417	423	rVV	4429835	1836067	2.65%	1.167%
3	1.473	423	428	430	rVV	5235885	3059963	4.42%	1.944%
4	1.486	430	432	435	rVB	2598248	1102870	1.59%	0.701%
5	1.557	450	454	459	rBV	5667598	3007634	4.34%	1.911%
6	1.725	500	506	528	rVB	3474318	9048380	13.06%	5.749%
7	1.832	535	539	550	rBV	4883049	3957220	5.71%	2.514%
8	1.929	550	569	570	rBV2	18287455	48004713	69.30%	30.499%
9	1.988	570	587	592	rVV	19443643	69270102	100.00%	44.010%
10	3.956	1182	1195	1208	rVB	788918	1234206	1.78%	0.784%
11	8.878	2704	2716	2728	rBV	987245	1463498	2.11%	0.930%
12	10.377	3165	3179	3190	rBV	1398881	1712247	2.47%	1.088%
13	10.856	3319	3327	3336	rVB	658387	764516	1.10%	0.486%
14	11.426	3492	3503	3513	rVB	943768	1060779	1.53%	0.674%
15	11.850	3625	3634	3643	rBV	1558484	1630574	2.35%	1.036%
16	12.041	3684	3693	3703	rBV	4171582	4488018	6.48%	2.851%
17	13.384	4101	4108	4117	rVB	671369	706150	1.02%	0.449%

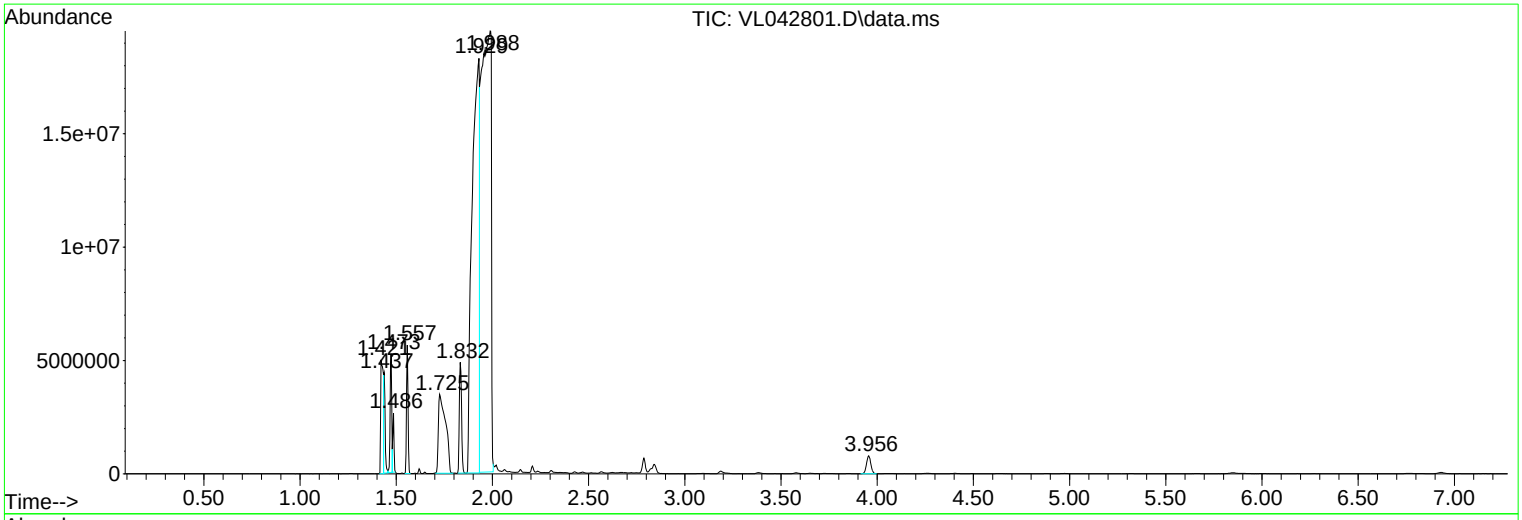
Sum of corrected areas: 157396119

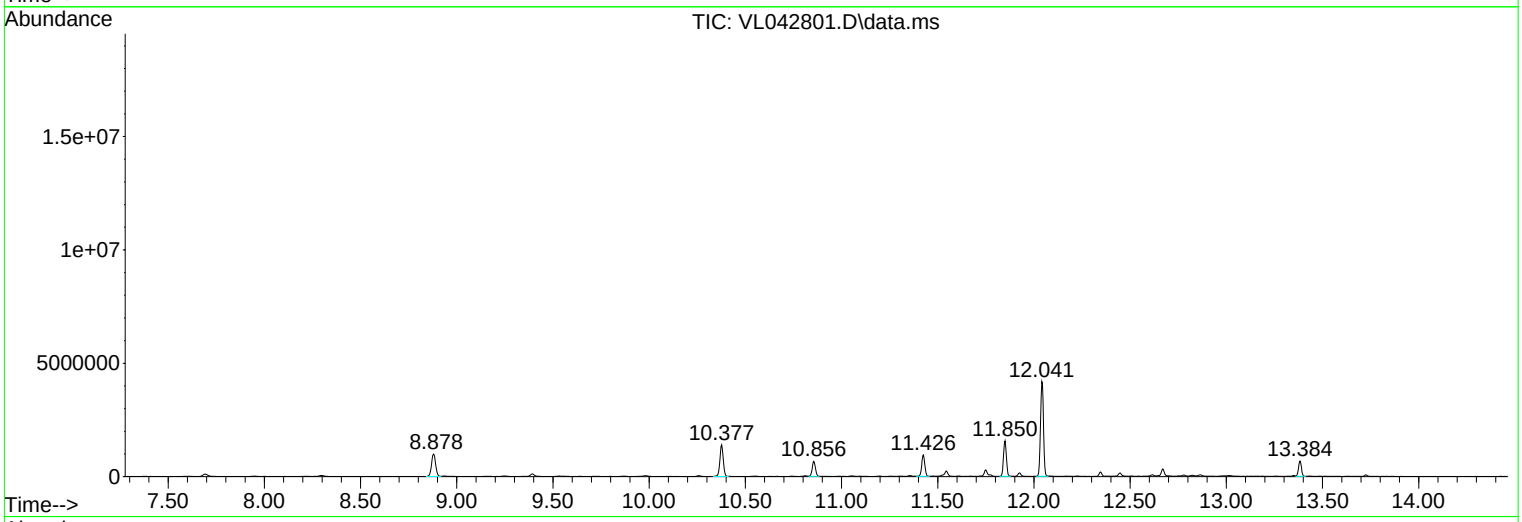
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042801.D
Acq On : 04 Aug 2025 12:56
Operator : SY/MD
Sample : Q2750-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

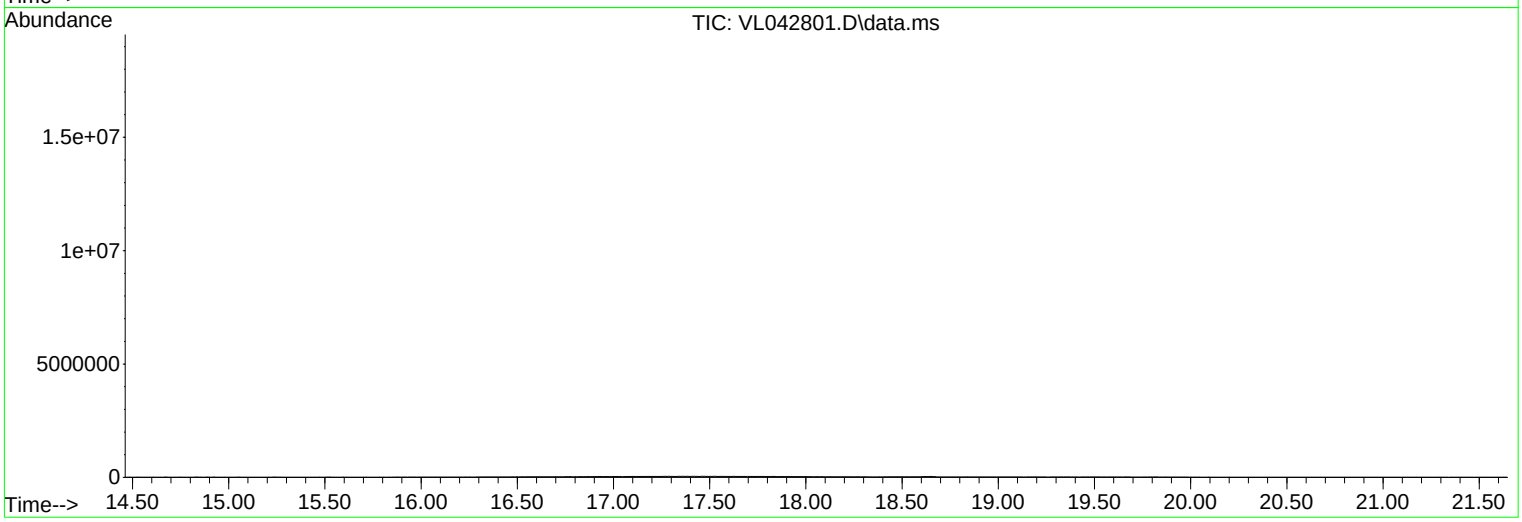
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042801.D
Acq On : 04 Aug 2025 12:56
Operator : SY/MD
Sample : Q2750-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

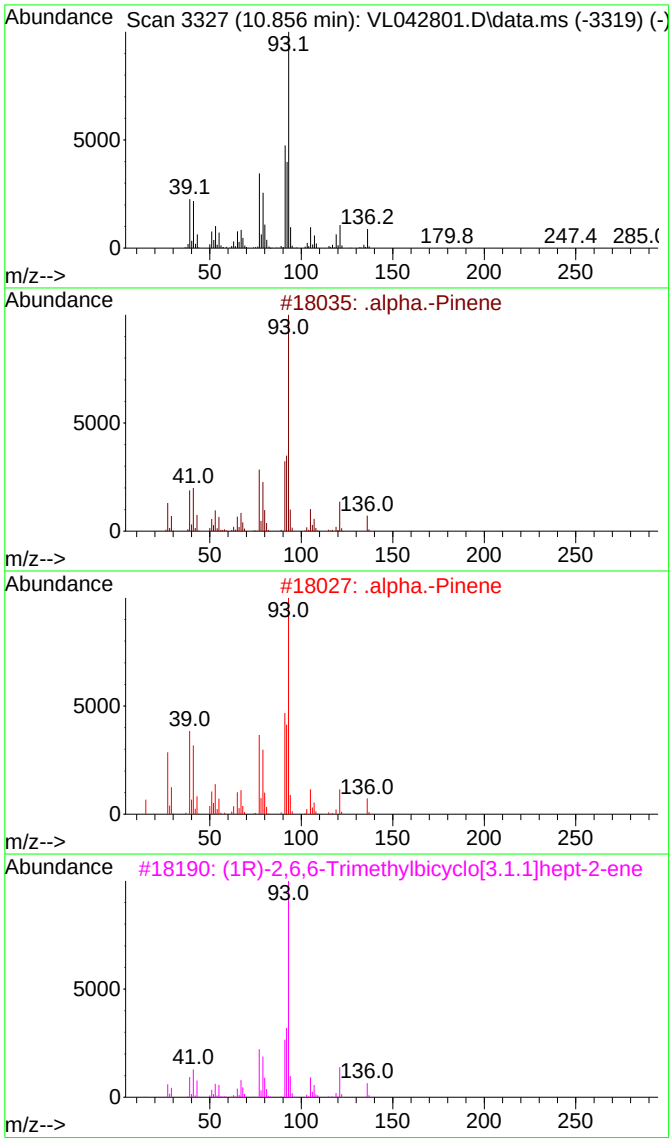
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

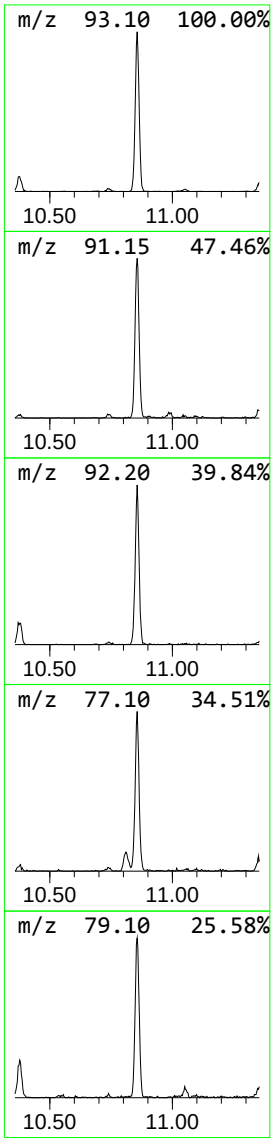
****

Peak Number 2 .alpha.-Pinene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.856	5.22 ppbv	764516	Chlorobenzene-d5	8.878

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Pinene	136	C10H16	000080-56-8	94
2	.alpha.-Pinene	136	C10H16	000080-56-8	94
3	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	91
4	(1S)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-26-4	90
5	.alpha.-Pinene	136	C10H16	000080-56-8	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042801.D
Acq On : 04 Aug 2025 12:56
Operator : SY/MD
Sample : Q2750-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

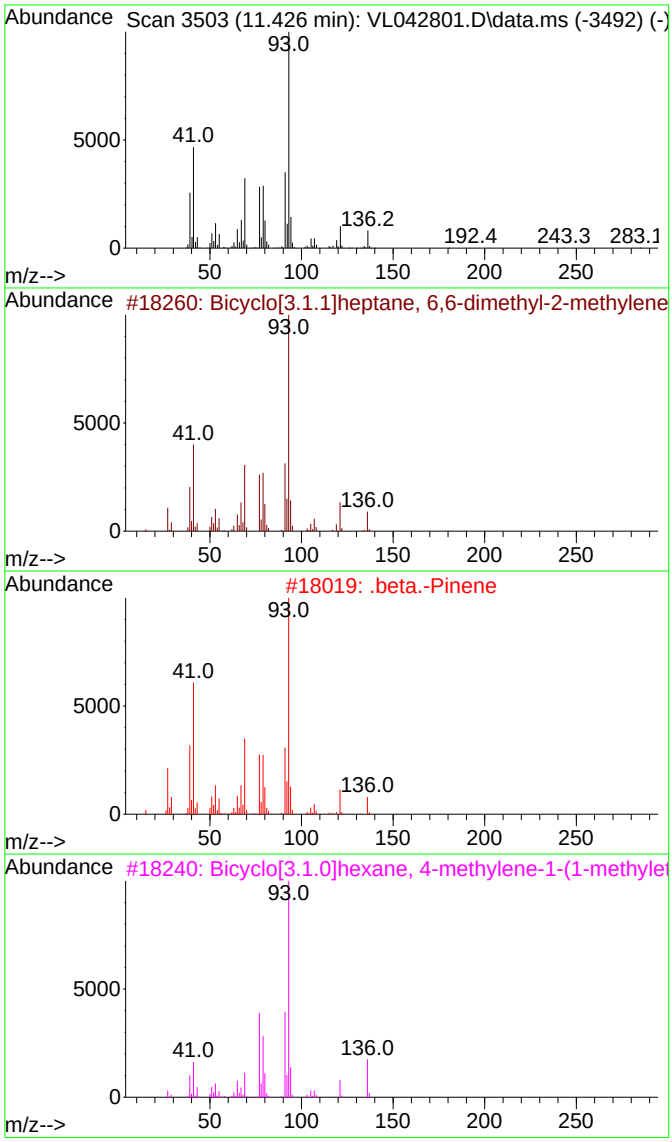
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

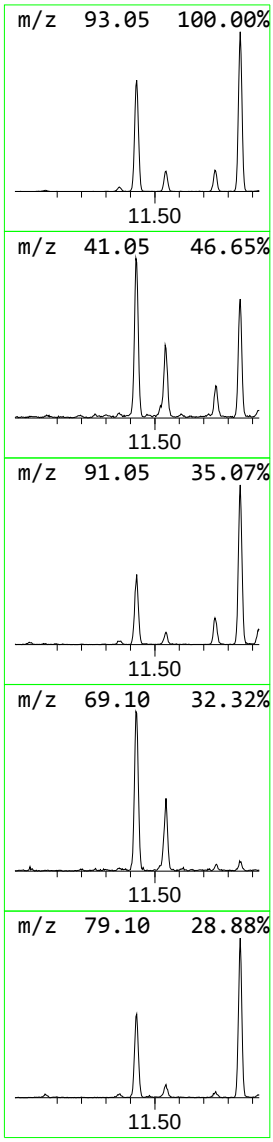
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Bicyclo[3.1.1]heptane, 6,6-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.426	7.25 ppbv	1060780	Chlorobenzene-d5	8.878

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	96
2	.beta.-Pinene	136	C10H16	000127-91-3	94
3	Bicyclo[3.1.0]hexane, 4-methylen...	136	C10H16	003387-41-5	94
4	.beta.-Pinene	136	C10H16	000127-91-3	93
5	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042801.D
Acq On : 04 Aug 2025 12:56
Operator : SY/MD
Sample : Q2750-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

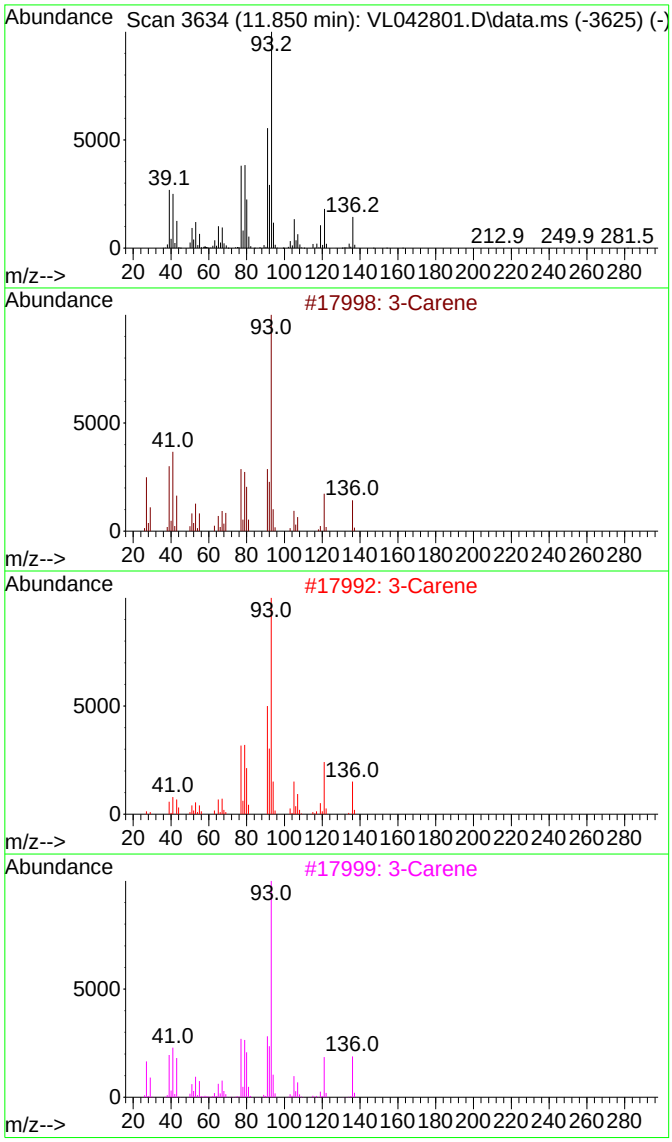
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

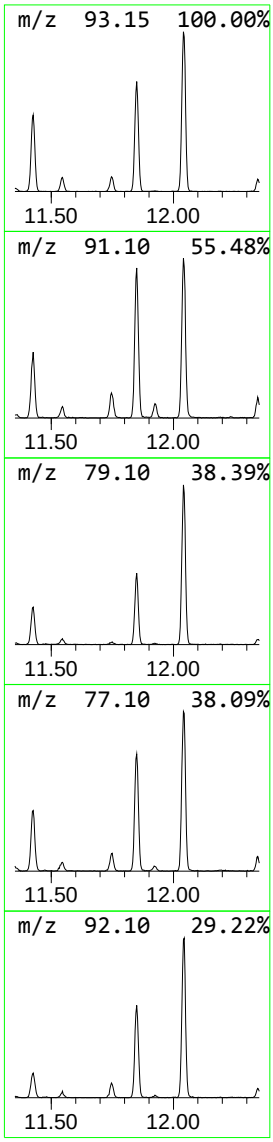
****

Peak Number 4 3-Carene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.850	11.14 ppbv	1630570	Chlorobenzene-d5	8.878

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Carene	136	C10H16	013466-78-9	96
2	3-Carene	136	C10H16	013466-78-9	95
3	3-Carene	136	C10H16	013466-78-9	95
4	(1S)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-26-4	90
5	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042801.D
Acq On : 04 Aug 2025 12:56
Operator : SY/MD
Sample : Q2750-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

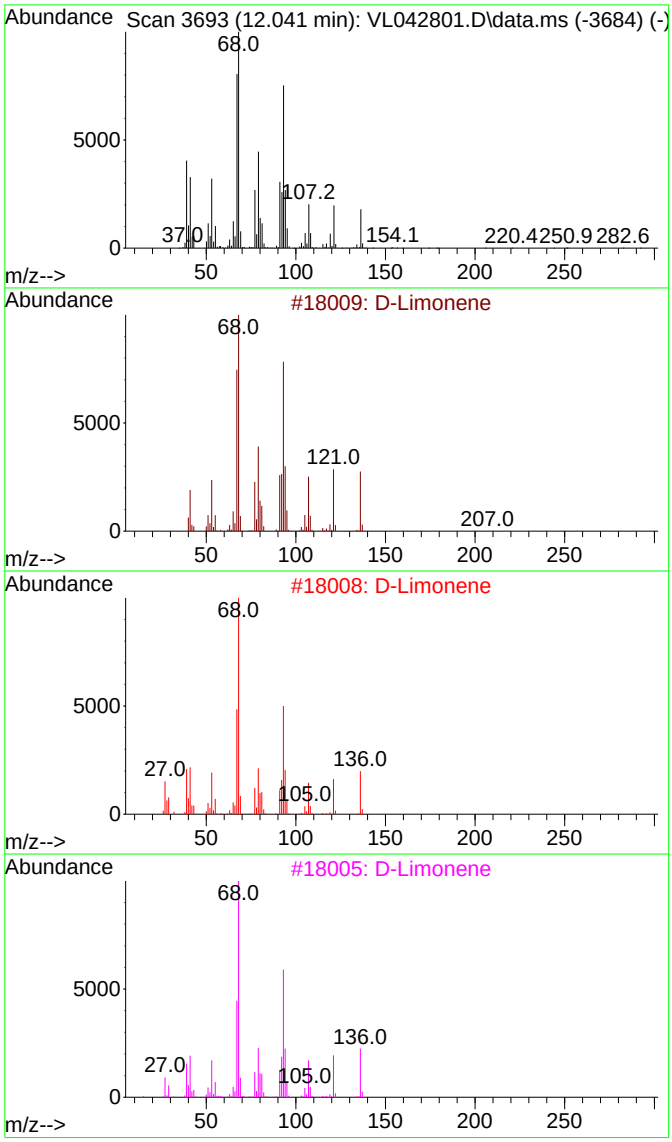
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

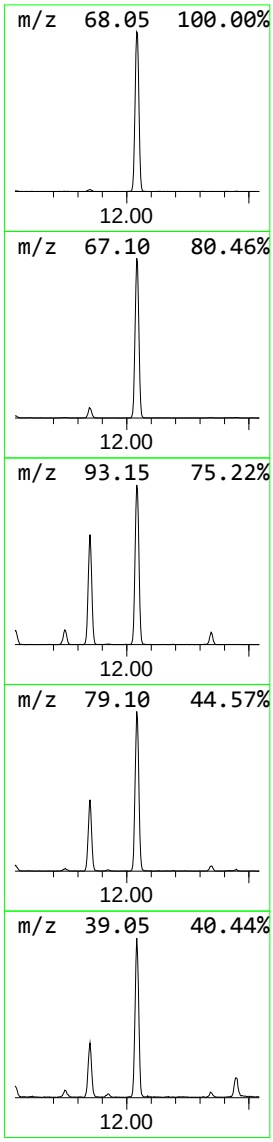
****

Peak Number 5 D-Limonene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.041	30.67 ppbv	4488020	Chlorobenzene-d5	8.878

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	98
2	D-Limonene	136	C10H16	005989-27-5	93
3	D-Limonene	136	C10H16	005989-27-5	93
4	Limonene	136	C10H16	000138-86-3	90
5	Limonene	136	C10H16	000138-86-3	86





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042801.D
Acq On : 04 Aug 2025 12:56
Operator : SY/MD
Sample : Q2750-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

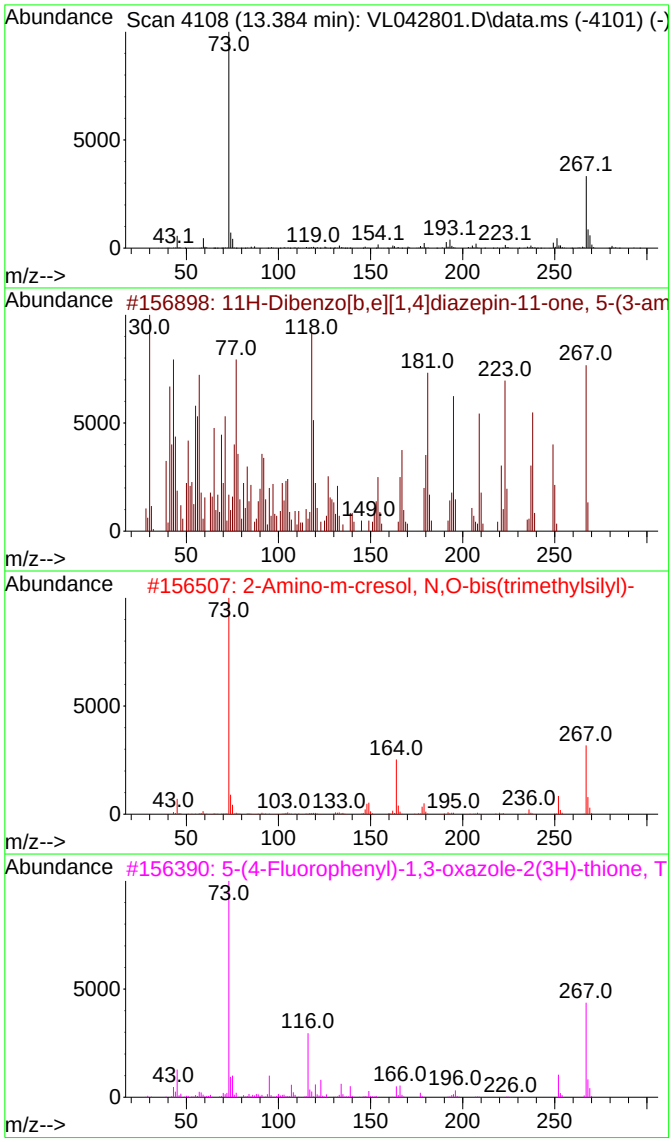
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

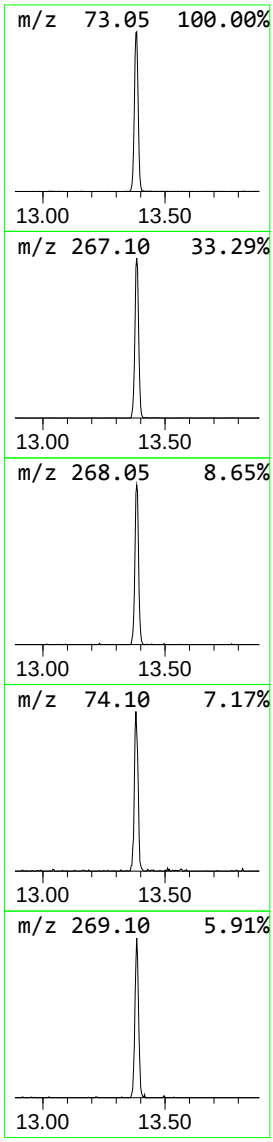
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.384	4.83 ppbv	706150	Chlorobenzene-d5	8.878

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	95
2	2-Amino-m-cresol, N,O-bis(trimet...	267	C13H25NOSi2	1000449-77-1	59
3	5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	59
4	Benzeneethanamine, N-methyl-.bet...	311	C15H29NO2Si2	029522-18-7	50
5	5-(3-Pyridinyl)-1,3,4-thiadiazol...	267	C10H13N3S2Si	1000471-43-6	45





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042801.D
Acq On : 04 Aug 2025 12:56
Operator : SY/MD
Sample : Q2750-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
.alpha.-Pinene	10.856	5.2	ppbv	764516	3	8.878	1463500	10.0
Bicyclo[3.1.1]h...	11.426	7.3	ppbv	1060780	3	8.878	1463500	10.0
3-Carene	11.850	11.1	ppbv	1630570	3	8.878	1463500	10.0
D-Limonene	12.041	30.7	ppbv	4488020	3	8.878	1463500	10.0
11H-Dibenzo[b,e...	13.384	4.8	ppbv	706150	3	8.878	1463500	10.0

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-3DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042822.D	20		08/05/25 00:45	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.20	10.9	UD	10.9	49.5	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.50	1.28	UD	1.28	1.53	ug/m3
74-83-9	Bromomethane	1.50	5.82	UD	5.82	38.8	ug/m3
75-00-3	Chloroethane	3.00	7.92	UD	7.92	26.4	ug/m3
109-99-9	Tetrahydrofuran	1.60	4.72	UD	4.72	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.40	19.1	UD	19.1	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	2.80	21.5	UD	21.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.00	21.0	UD	21.0	69.9	ug/m3
75-65-0	tert-Butyl alcohol	3.20	9.70	UD	9.70	30.3	ug/m3
142-82-5	Heptane	3.40	13.9	UD	13.9	41.0	ug/m3
75-35-4	1,1-Dichloroethene	3.00	11.9	UD	11.9	39.6	ug/m3
67-64-1	Acetone	170	404	D	8.55	23.8	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.60	16.6	UD	16.6	36.0	ug/m3
75-09-2	Methylene Chloride	5.60	19.4	JD	16.0	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	2.40	9.52	UD	9.52	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	1.10	3.24	UD	3.24	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.50	3.15	UD	3.15	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	2.00	7.93	UD	7.93	39.6	ug/m3
67-66-3	Chloroform	1.90	9.28	UD	9.28	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.32	1.75	UD	1.75	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	2.80	13.1	UD	13.1	46.7	ug/m3
71-43-2	Benzene	1.60	5.11	UD	5.11	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.90	7.69	UD	7.69	40.5	ug/m3
79-01-6	Trichloroethene	0.48	2.58	UD	2.58	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.60	12.0	UD	12.0	46.2	ug/m3
75-27-4	Bromodichloromethane	1.30	8.71	UD	8.71	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	3.20	12.1	UD	12.1	37.7	ug/m3
10061-02-6	t-1,3-Dichloropropene	3.00	13.6	UD	13.6	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.20	9.99	UD	9.99	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.60	8.73	UD	8.73	54.6	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-3DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042822.D	20		08/05/25 00:45	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	1.70	14.5	UD	14.5	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.70	13.1	UD	13.1	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	3.80	16.5	UD	16.5	43.4	ug/m3
179601-23-1	m/p-Xylene	8.20	35.6	UD	35.6	86.9	ug/m3
95-47-6	o-Xylene	4.20	18.2	UD	18.2	43.4	ug/m3
100-42-5	Styrene	3.20	13.6	UD	13.6	42.6	ug/m3
75-25-2	Bromoform	0.96	9.93	UD	9.93	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.36	2.47	UD	2.47	4.12	ug/m3
95-49-8	2-Chlorotoluene	3.40	17.6	UD	17.6	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	4.20	31.2	UD	31.2	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	2.60	27.7	UD	27.7	107	ug/m3
106-99-0	1,3-Butadiene	1.00	2.21	UD	2.21	22.1	ug/m3
91-20-3	Naphthalene	0.26	1.36	UD	1.36	10.5	ug/m3
622-96-8	4-Ethyltoluene	4.20	20.6	UD	20.6	49.2	ug/m3
110-54-3	Hexane	3.20	11.3	UD	11.3	35.2	ug/m3
107-05-1	Allyl Chloride	2.20	6.89	UD	6.89	31.3	ug/m3
123-91-1	1,4-Dioxane	4.40	15.9	UD	15.9	36.0	ug/m3
80-62-6	Methyl Methacrylate	2.80	11.5	UD	11.5	41.0	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			70 (65) - 130 (135)	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	147000		2.787			
540-36-3	1,4-Difluorobenzene	366000		3.959			
3114-55-4	Chlorobenzene-d5	316000		8.882			

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-3DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042822.D	20		08/05/25 00:45	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042822.D
Acq On : 05 Aug 2025 00:45
Operator : SY/MD
Sample : Q2750-02DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 03:20:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	146942	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	366115	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	315576	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	245322	9.816	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.200%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.476	51	133315	5.268	ppbv	100
9) Propene	1.489	41	10440m	1.135	ppbv	
13) Ethanol	1.722	45	247776	368.803	ppbv	89
15) Acetone	1.836	43	168914	8.325	ppbv	100
19) Isopropyl Alcohol	1.897	45	4808998	445.998	ppbv #	40
20) Methylene Chloride	2.065	84	1787	0.279	ppbv #	83

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

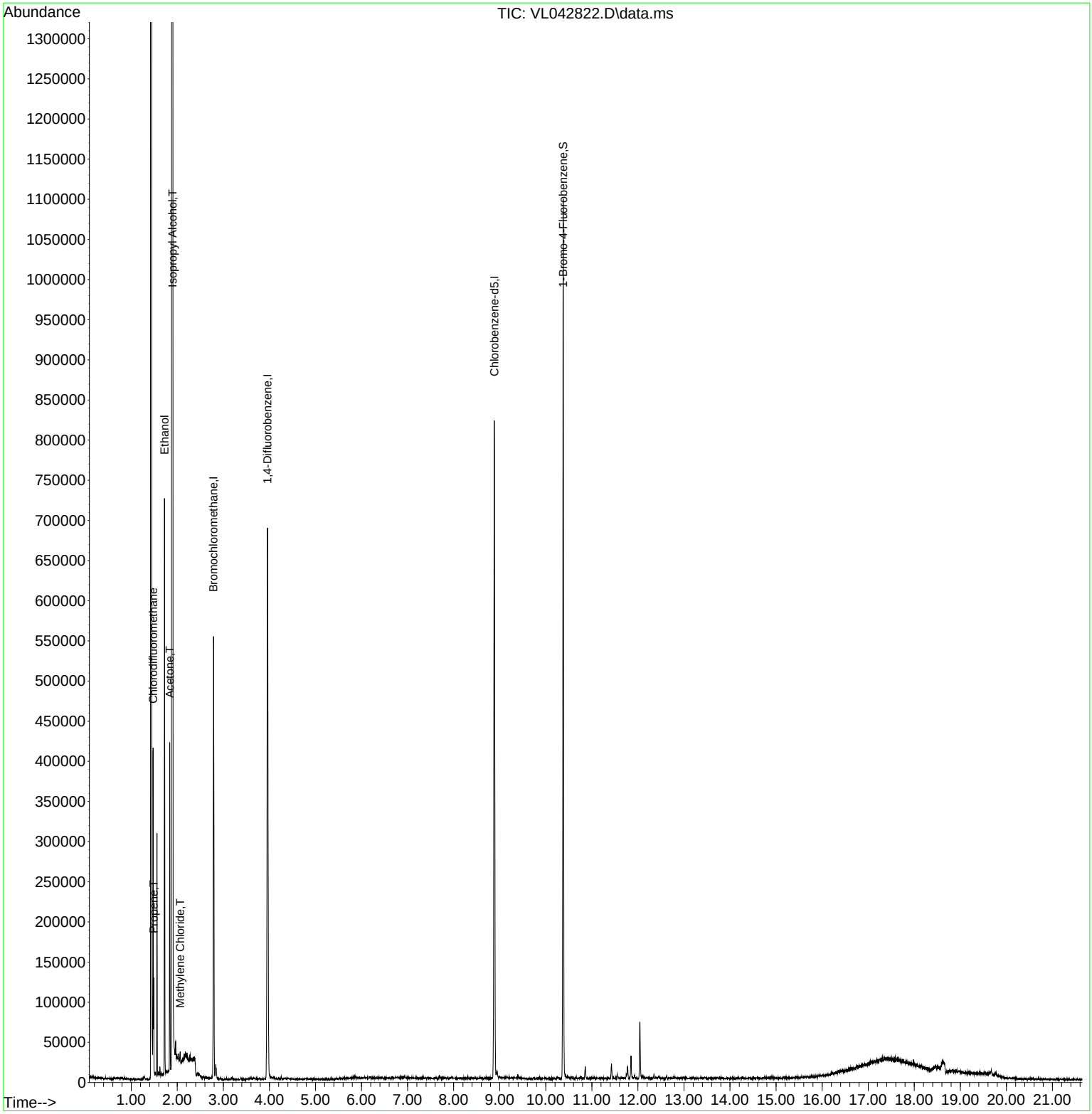
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042822.D
Acq On : 05 Aug 2025 00:45
Operator : SY/MD
Sample : Q2750-02DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

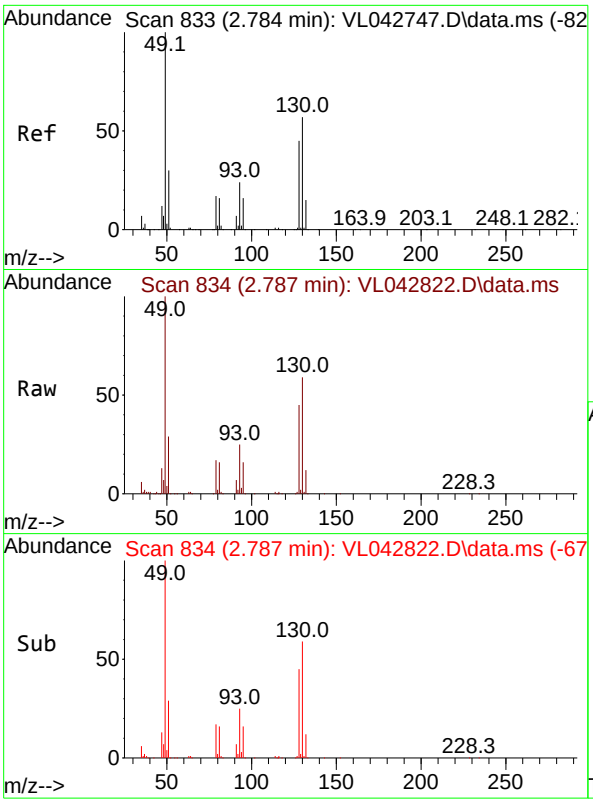
Quant Time: Aug 05 03:20:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

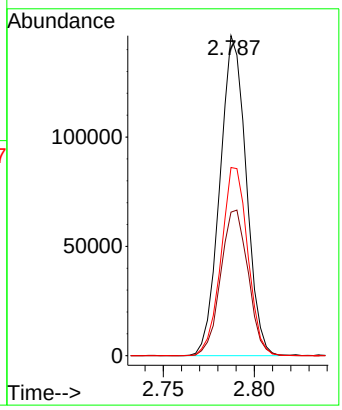




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 49 Resp: 14694

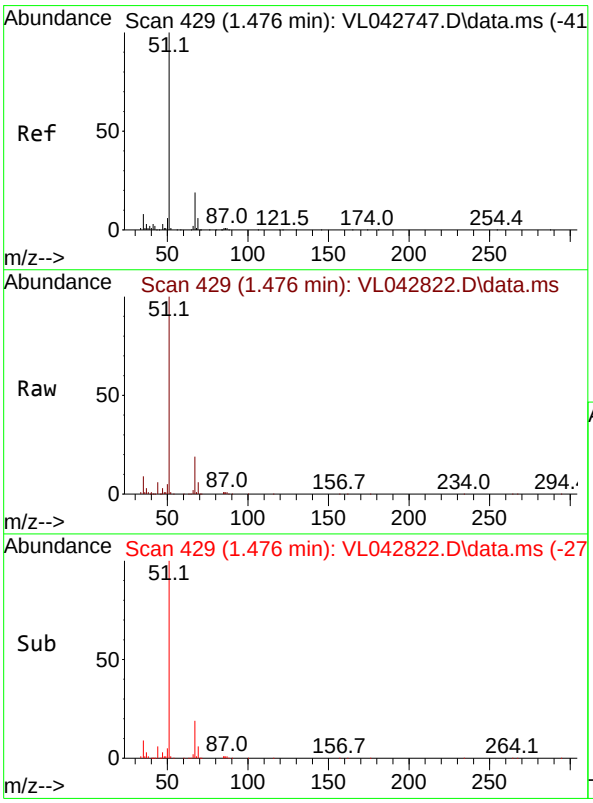
Ion	Ratio	Lower	Upper
49	100		
128	47.5	23.6	71.0
130	59.6	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Manual Integrations
APPROVED

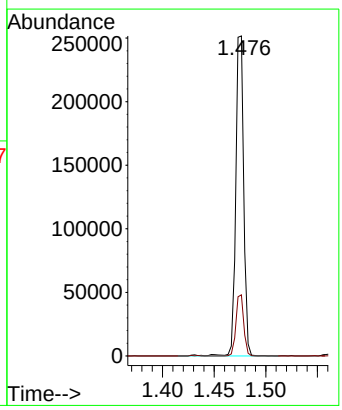
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

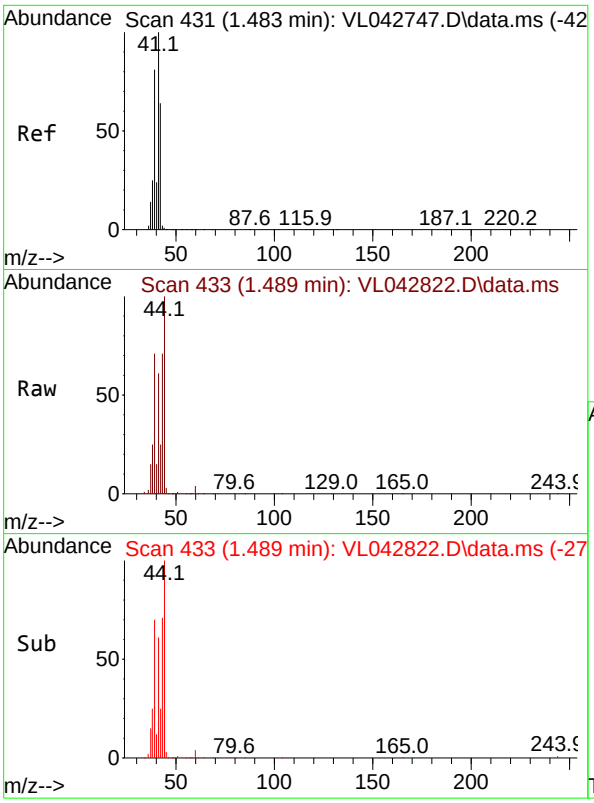


#3
Chlorodifluoromethane
Concen: 5.268 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 51 Resp: 133315

Ion	Ratio	Lower	Upper
51	100		
67	18.9	15.0	22.6

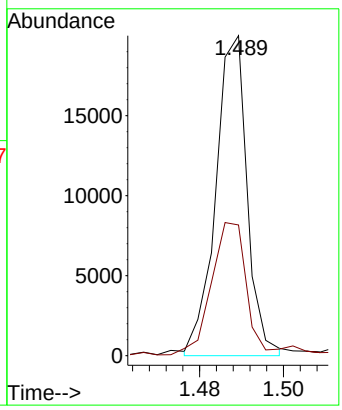




#9
Propene
Concen: 1.135 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 41 Resp: 1044

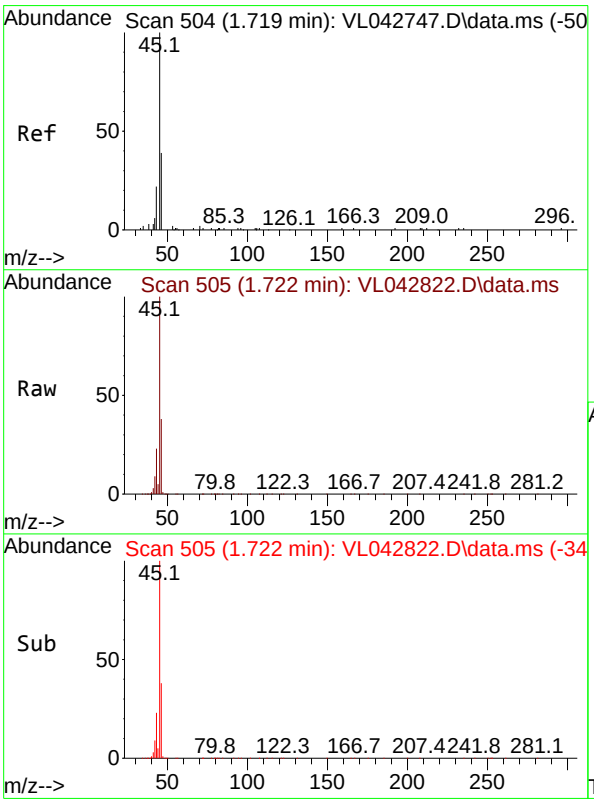
Ion	Ratio	Lower	Upper
41	100		
42	7850.5	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Manual Integrations
APPROVED

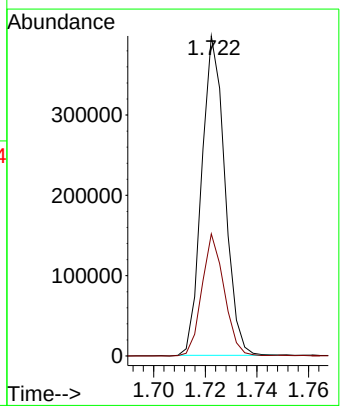
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

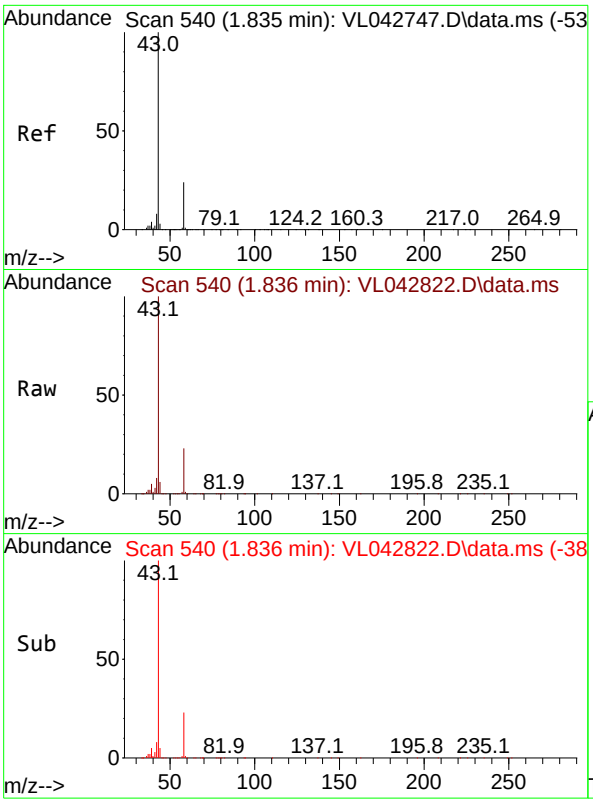


#13
Ethanol
Concen: 368.803 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 45 Resp: 247776

Ion	Ratio	Lower	Upper
45	100		
46	37.4	17.8	71.4

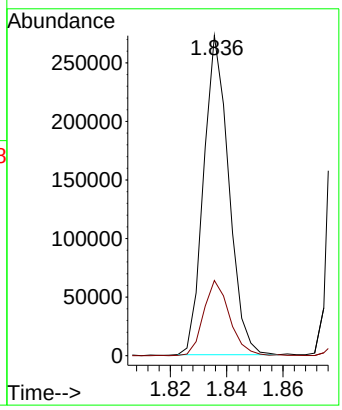




#15
Acetone
Concen: 8.325 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 43 Resp: 16891

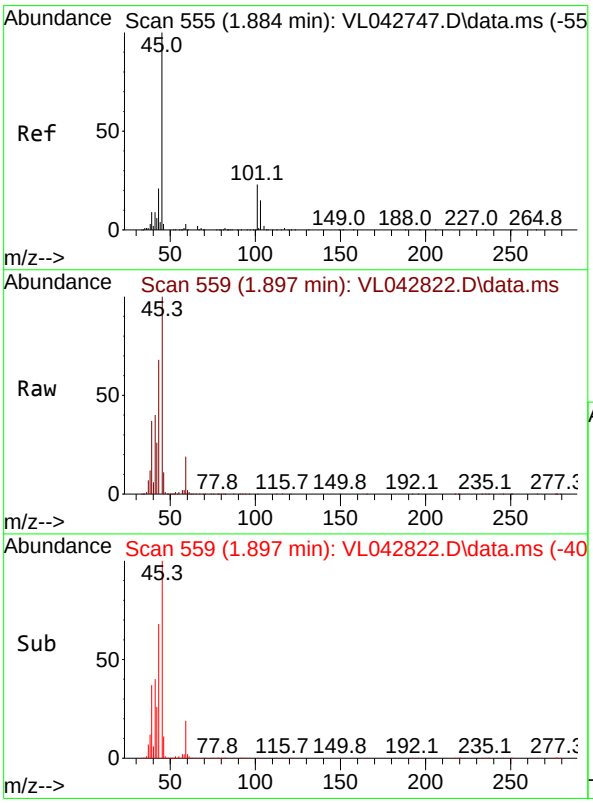
Ion	Ratio	Lower	Upper
43	100		
58	24.6	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Manual Integrations
APPROVED

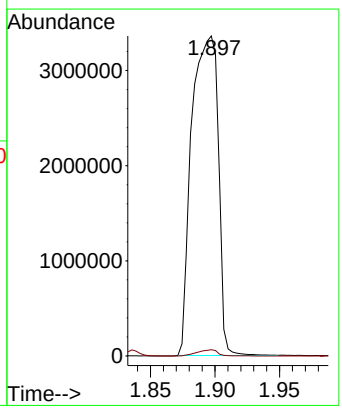
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

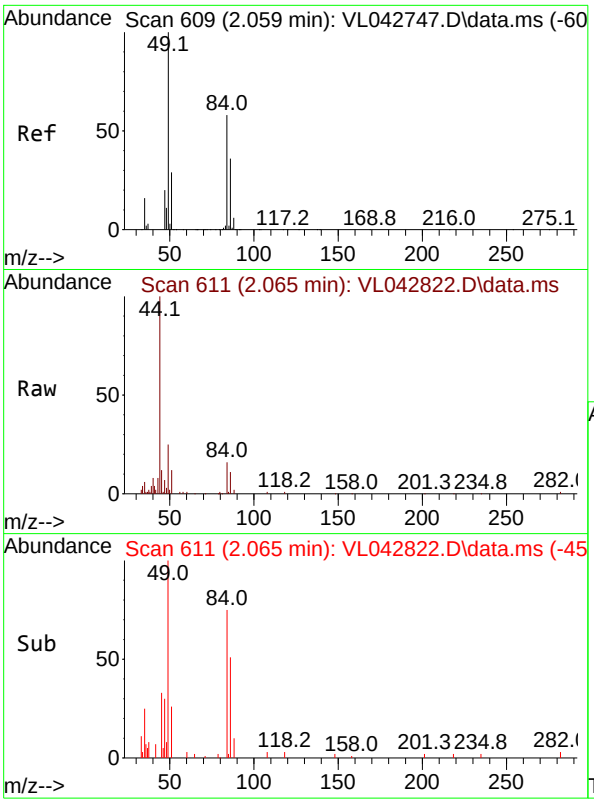


#19
Isopropyl Alcohol
Concen: 445.998 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.013 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 45 Resp: 4808998

Ion	Ratio	Lower	Upper
45	100		
58	1.5	30.0	45.0#

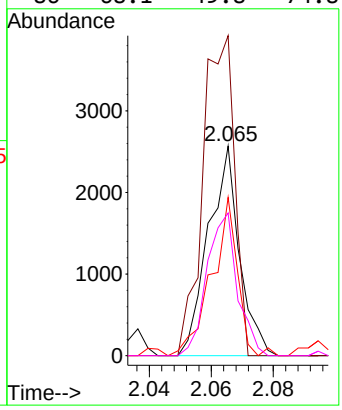




#20
Methylene Chloride
Concen: 0.279 ppbv
RT: 2.065 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 84 Resp: 178

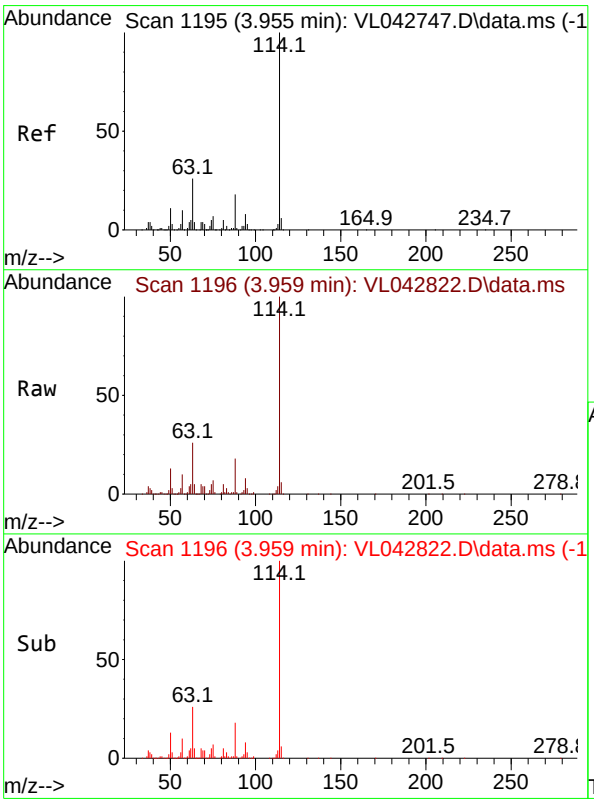
Ion	Ratio	Lower	Upper
84	100		
49	152.7	138.6	208.0
51	75.5	40.6	61.0
86	68.1	49.8	74.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Manual Integrations
APPROVED

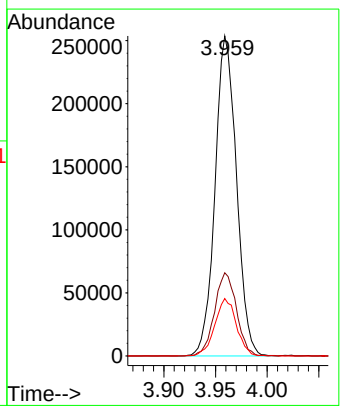
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

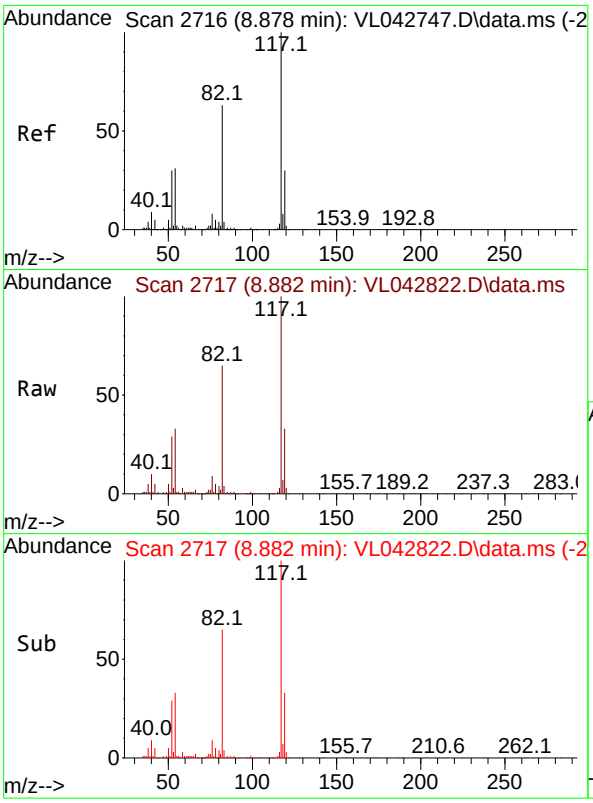


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion:114 Resp: 366115

Ion	Ratio	Lower	Upper
114	100		
63	26.8	20.5	30.7
88	18.1	14.0	21.0

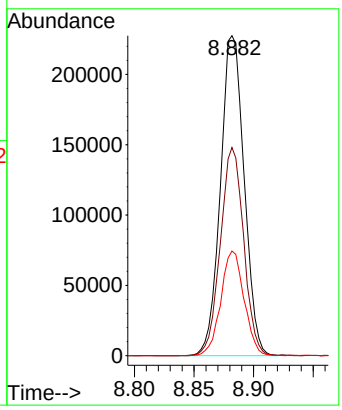




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion:117 Resp: 31557

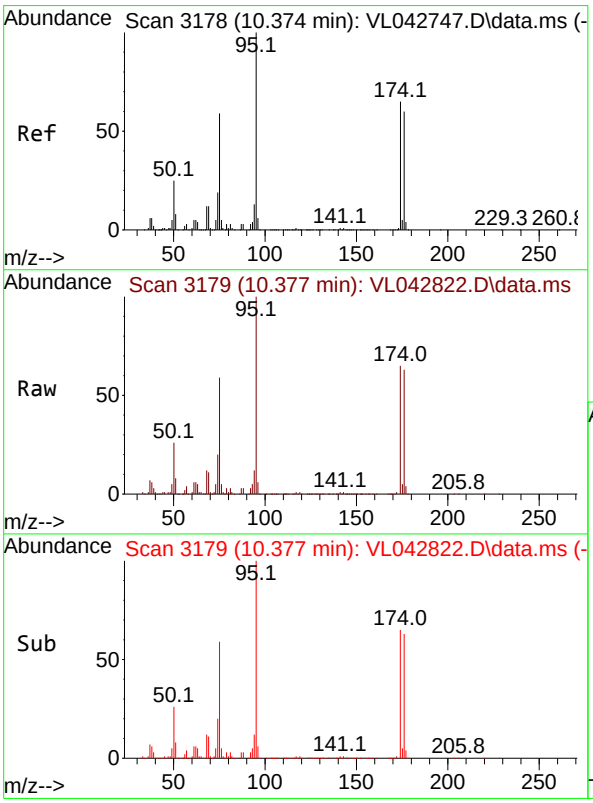
Ion	Ratio	Lower	Upper
117	100		
82	63.9	53.3	79.9
119	32.2	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Manual Integrations
APPROVED

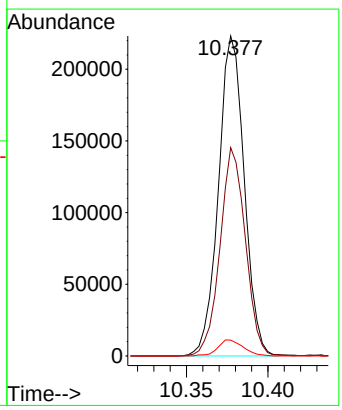
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.816 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 95 Resp: 245322

Ion	Ratio	Lower	Upper
95	100		
174	64.3	53.8	80.6
175	5.0	4.0	6.0



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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-4	SDG No.:	Q2750
Lab Sample ID:	Q2750-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042802.D	1		08/04/25 13:30	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.54	2.67		0.54	2.47	ug/m3
74-87-3	Chloromethane	0.68	1.40		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.33	0.97	J	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.20	1.12	J	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	96.1	228	E	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	3.30	10.3		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	1.90	6.60		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.94	2.77		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.060	0.38		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.59	2.88		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.26	0.83	J	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.76	2.86		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-4	SDG No.:	Q2750
Lab Sample ID:	Q2750-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042802.D	1		08/04/25 13:30	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.18	0.77	J	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.46	2.41		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	1.90	6.70		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.15	0.61	J	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			70 (65) - 130 (135)	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	166000		2.787			
540-36-3	1,4-Difluorobenzene	472000		3.955			
3114-55-4	Chlorobenzene-d5	411000		8.878			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	55.8		J		1.47	ppbv
115-07-1	Propene	18.9		J		1.49	ppbv
64-17-5	Ethanol	6300		J		1.73	ppbv

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-4	SDG No.:	Q2750
Lab Sample ID:	Q2750-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042802.D	1		08/04/25 13:30	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	2100		J		1.98	ppbv
141-78-6	Ethyl Acetate	5.00		J		2.84	ppbv
000080-56-8	.alpha.-Pinene	4.80		J		10.9	ppbv
000127-91-3	.beta.-Pinene	6.60		J		11.4	ppbv
013466-78-9	3-Carene	10.4		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.61		J		11.9	ppbv
005989-27-5	D-Limonene	27.5		J		12.0	ppbv

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\VL080425\
Data File : VL042802.D
Acq On : 04 Aug 2025 13:30
Operator : SY/MD
Sample : Q2750-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:04:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	166020	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	471810	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	410967	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	345607	10.619	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 106.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	11798	0.537	ppbv		92
3) Chlorodifluoromethane	1.473	51	1595678	55.804	ppbv	#	83
4) Chloromethane	1.531	50	6035	0.680	ppbv	#	86
9) Propene	1.486	41	196810m	18.938	ppbv		
11) Trichlorofluoromethane	1.874	101	4420	0.195	ppbv		84
13) Ethanol	1.725	45	4798288	6339.911	ppbv		94
15) Acetone	1.832	43	2203330	96.111	ppbv	#	80
19) Isopropyl Alcohol	1.981	45	25586708m	2100.285	ppbv		
20) Methylene Chloride	2.062	84	13447	1.861	ppbv		93
25) Ethyl Acetate	2.842	43	253529m	4.996	ppbv		
26) Hexane	2.823	57	42838	1.924	ppbv	#	1
27) Carbon Disulfide	2.146	76	62067	3.257	ppbv	#	65
29) Chloroform	2.852	83	20293	0.590	ppbv		100
34) 2-Butanone	2.564	43	31346	0.938	ppbv		96
35) Carbon Tetrachloride	3.761	117	2258m	0.064	ppbv		
36) Benzene	3.651	78	11411	0.255	ppbv	#	90
41) Tetrahydrofuran	3.085	42	5673m	0.334	ppbv		
43) Methyl Methacrylate	4.878	69	2393m	0.151	ppbv		
44) 2,2,4-Trimethylpentane	4.638	57	7963m	0.109	ppbv		
53) Toluene	6.936	91	36533	0.761	ppbv		98
59) m/p-Xylene	9.526	91	11420m	0.220	ppbv		
61) Styrene	9.875	104	3986m	0.183	ppbv		
69) p-Isopropyltoluene	11.924	119	47903	0.608	ppbv		98
74) 1,2,4-Trimethylbenzene	11.536	105	7196	0.129	ppbv	#	82
79) Naphthalene	13.513	128	1603	0.461	ppbv	#	80

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

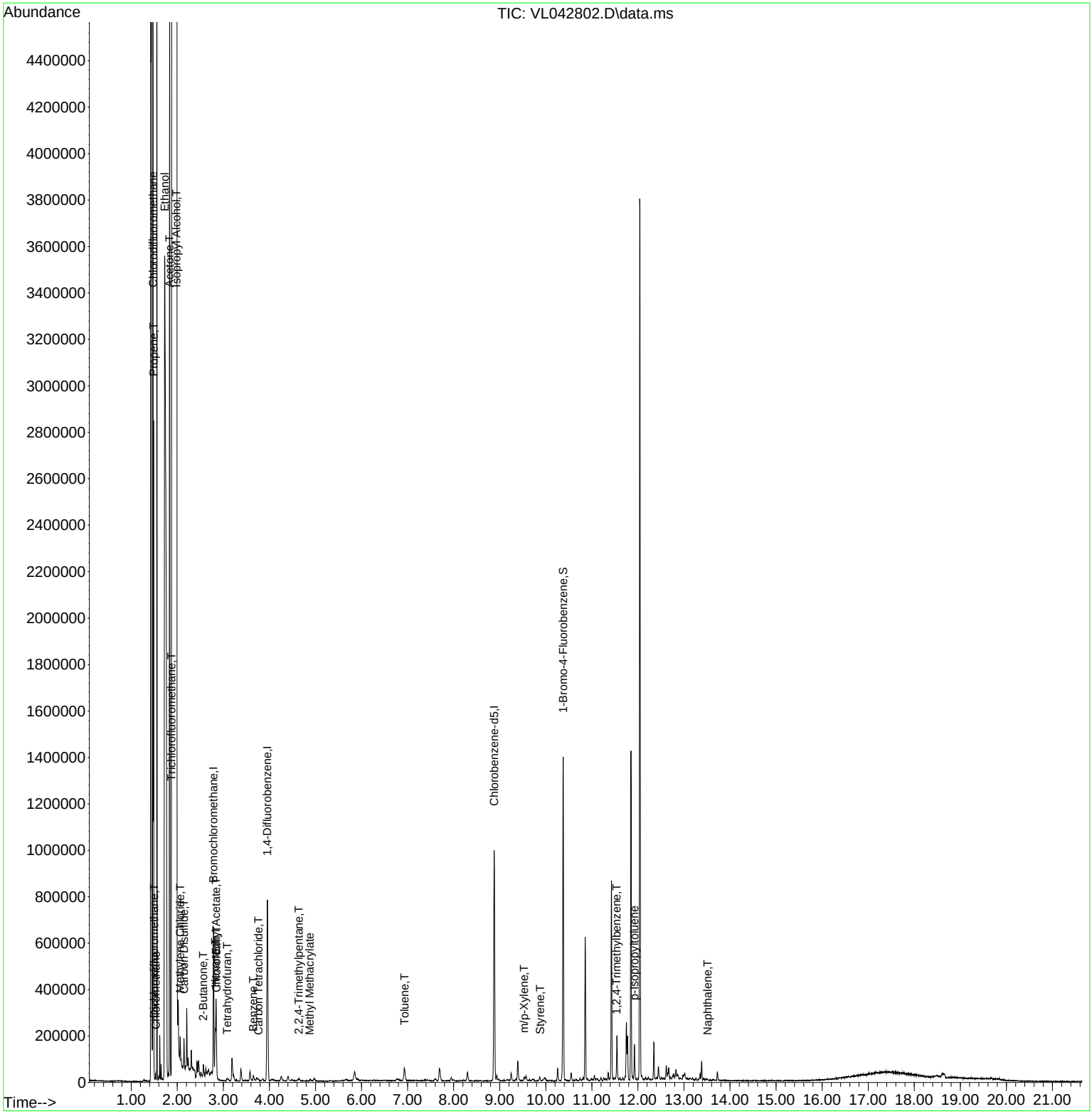
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042802.D
Acq On : 04 Aug 2025 13:30
Operator : SY/MD
Sample : Q2750-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

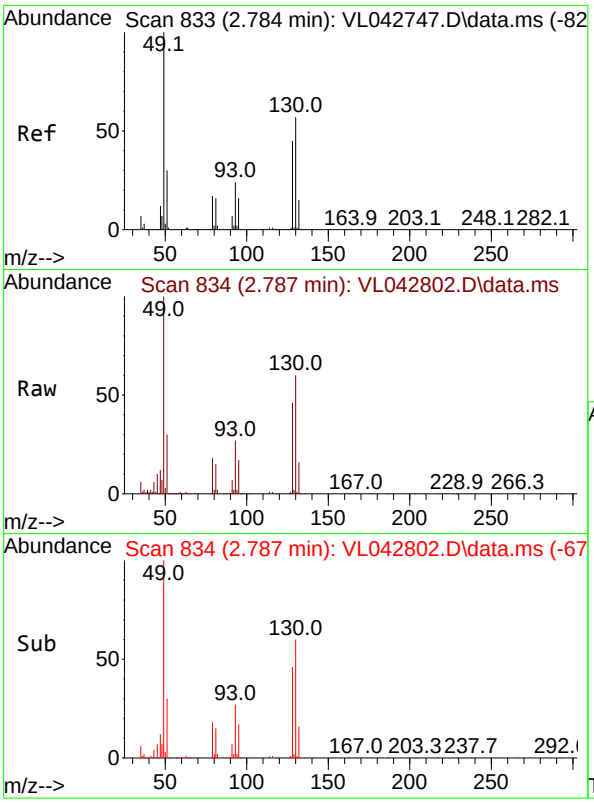
Quant Time: Aug 05 01:04:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

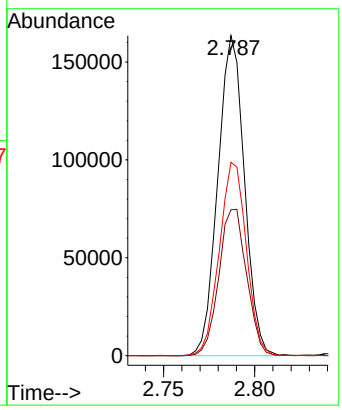
Tgt Ion: 49 Resp: 16602(

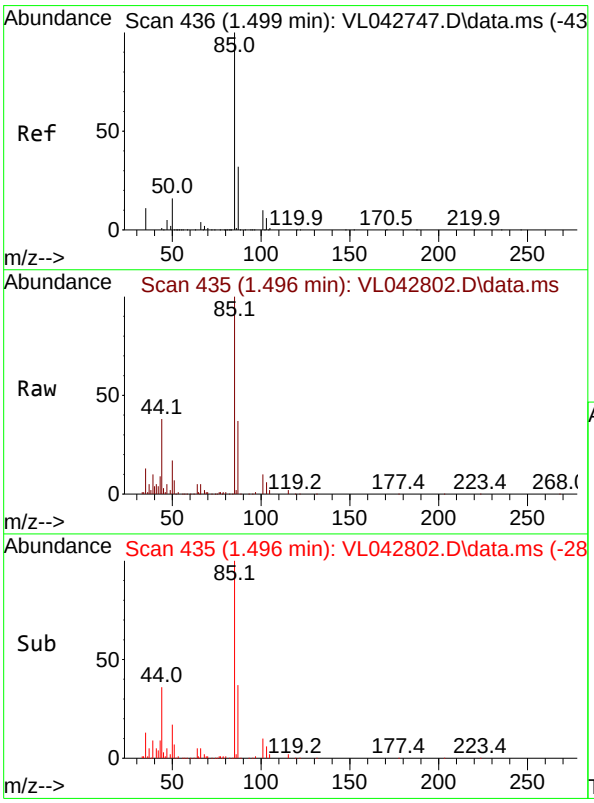
Ion	Ratio	Lower	Upper
49	100		
128	47.8	23.6	71.0
130	61.6	30.3	90.8

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

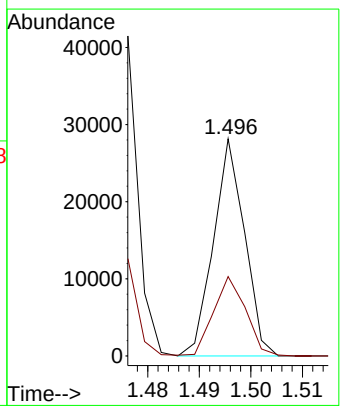


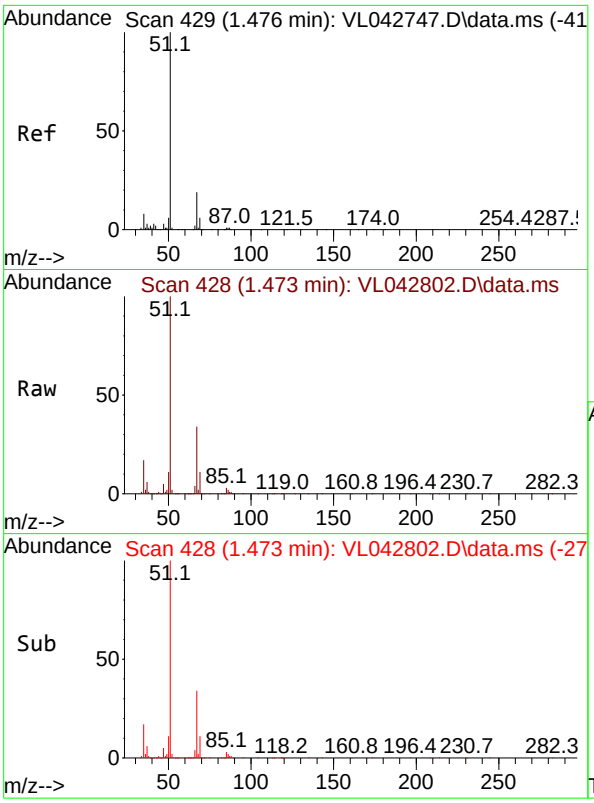


#2
Dichlorodifluoromethane
Concen: 0.537 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 85 Resp: 11798

Ion	Ratio	Lower	Upper
85	100		
87	36.2	25.4	38.2

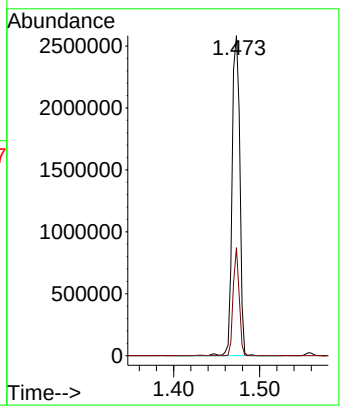




#3
Chlorodifluoromethane
Concen: 55.804 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 51 Resp: 159567

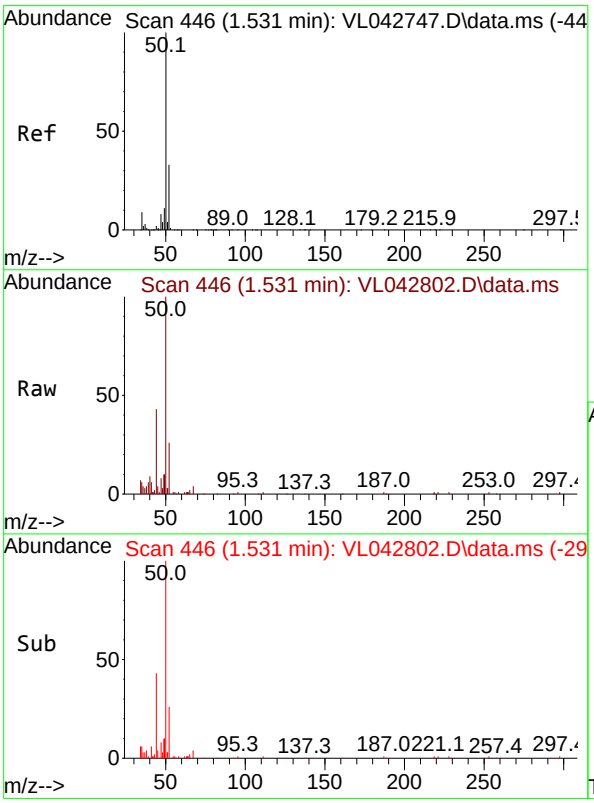
Ion	Ratio	Lower	Upper
51	100		
67	26.3	15.0	22.6#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

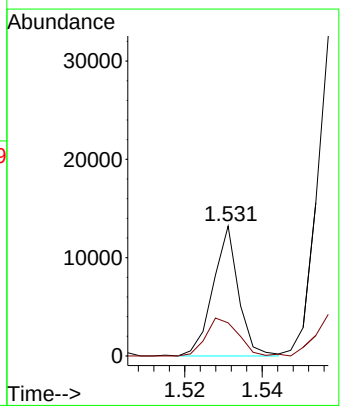
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

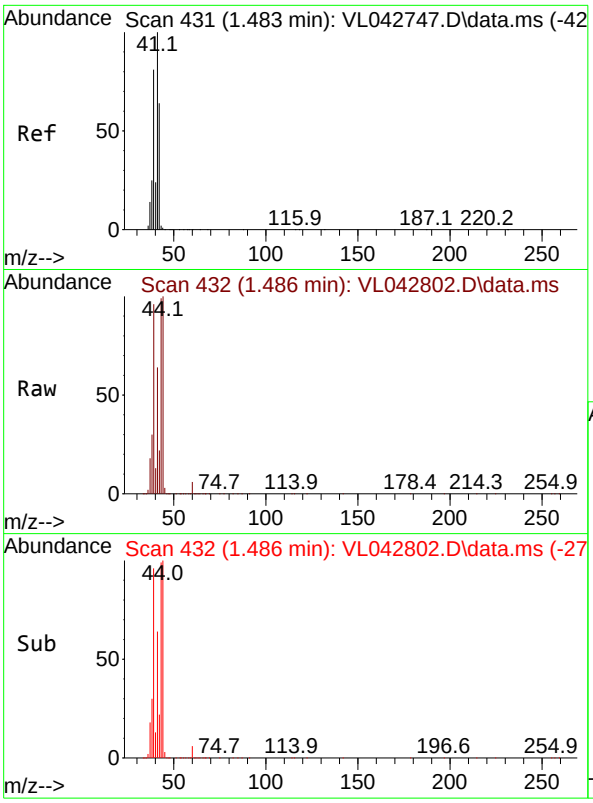


#4
Chloromethane
Concen: 0.680 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 50 Resp: 6035

Ion	Ratio	Lower	Upper
50	100		
52	25.5	26.6	40.0#

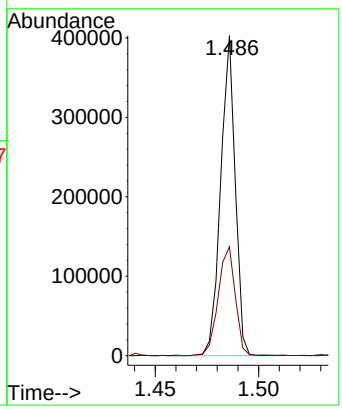




#9
Propene
Concen: 18.938 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 41 Resp: 19681

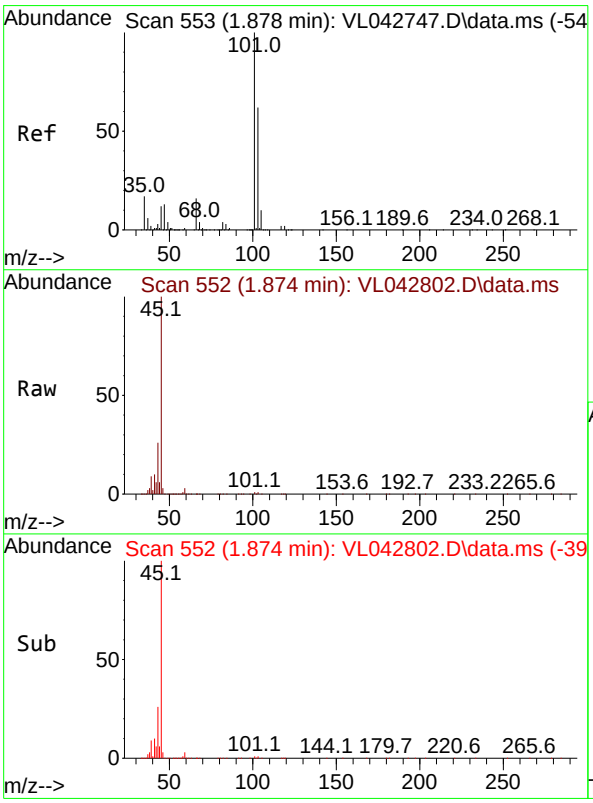
Ion	Ratio	Lower	Upper
41	100		
42	237.5	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

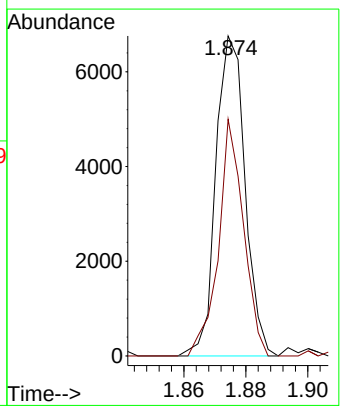
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

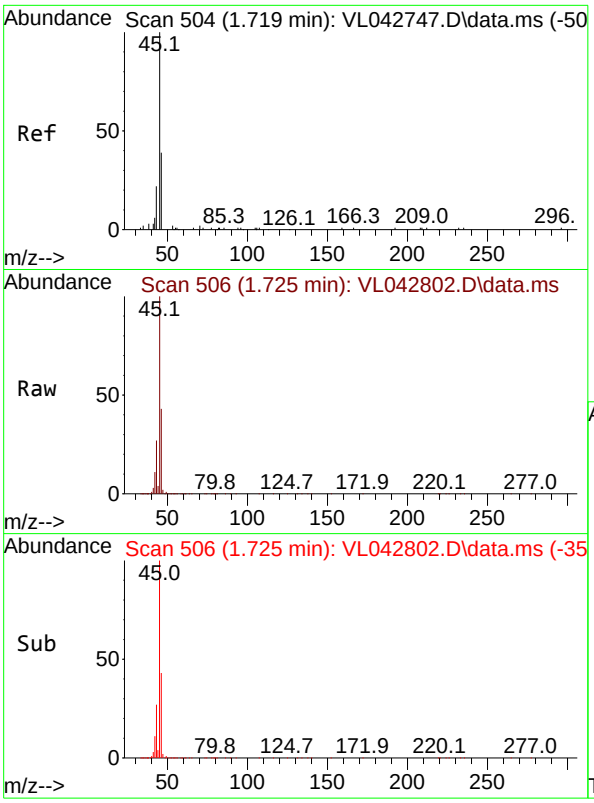


#11
Trichlorofluoromethane
Concen: 0.195 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion:101 Resp: 4420

Ion	Ratio	Lower	Upper
101	100		
103	73.9	49.6	74.4

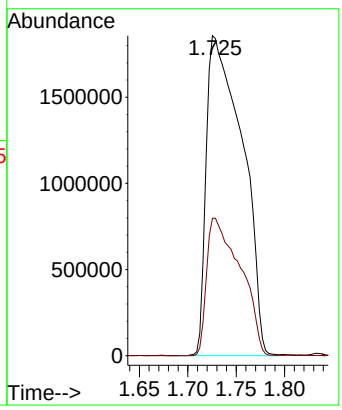




#13
Ethanol
Concen: 6339.911 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 45 Resp: 479828

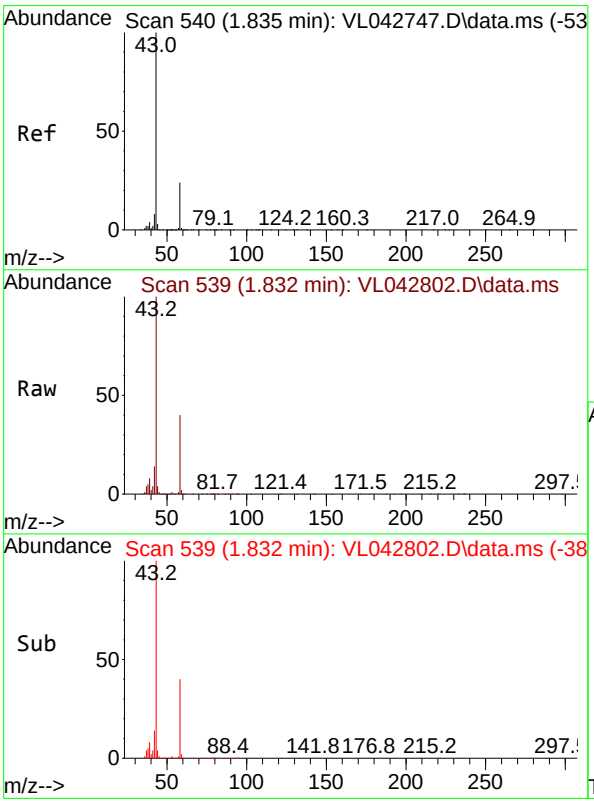
Ion	Ratio	Lower	Upper
45	100		
46	40.5	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

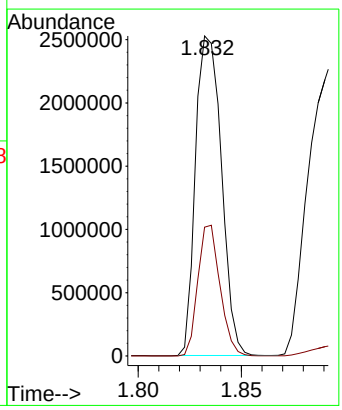
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

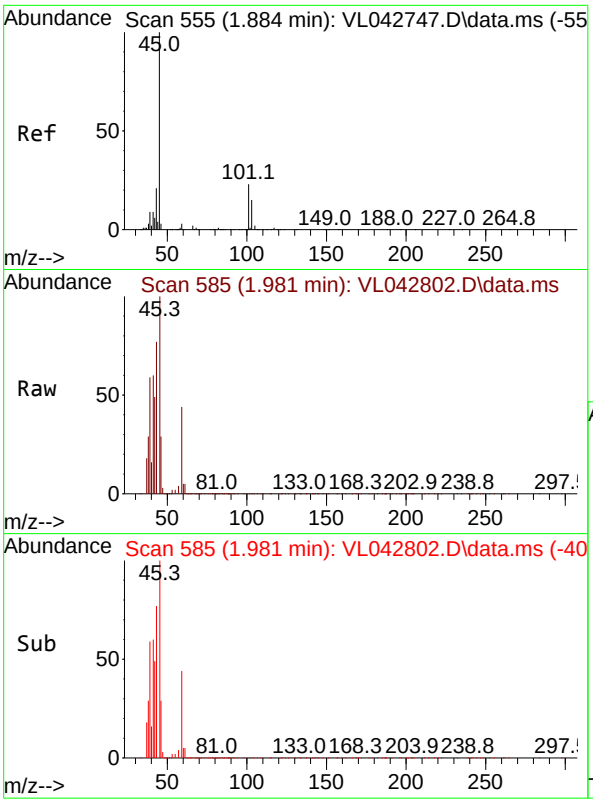


#15
Acetone
Concen: 96.111 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 43 Resp: 2203330

Ion	Ratio	Lower	Upper
43	100		
58	35.0	19.8	29.8#

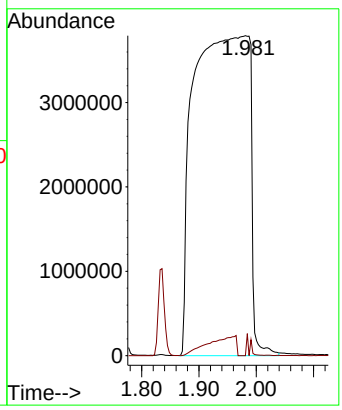




#19
Isopropyl Alcohol
Concen: 2100.285 ppbv m
RT: 1.981 min Scan# 5
Delta R.T. 0.097 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 45 Resp:2558670

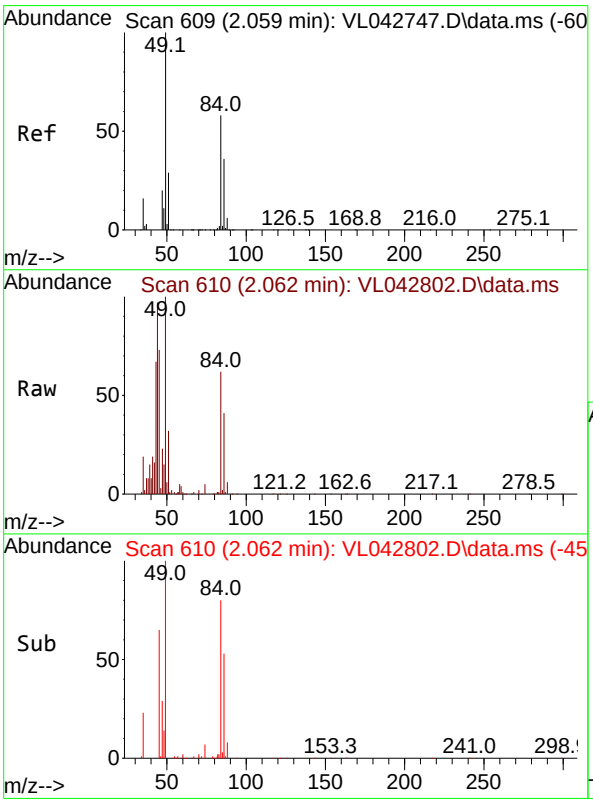
Ion	Ratio	Lower	Upper
45	100		
58	0.3	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

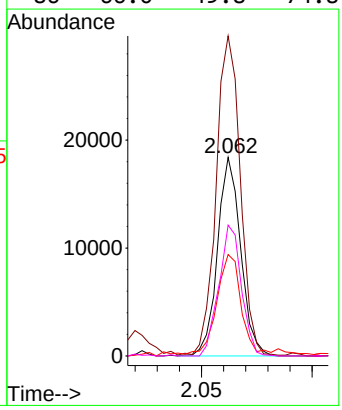
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

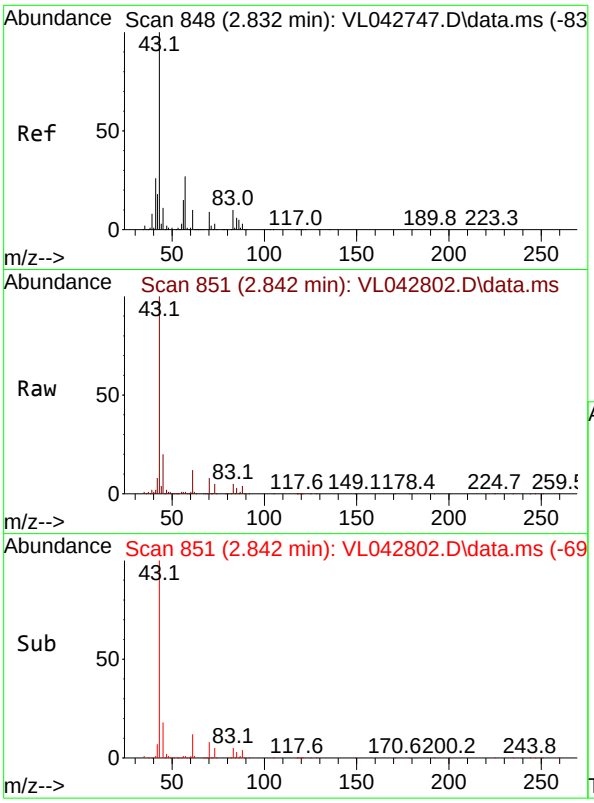


#20
Methylene Chloride
Concen: 1.861 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 84 Resp: 13447

Ion	Ratio	Lower	Upper
84	100		
49	160.8	138.6	208.0
51	51.7	40.6	61.0
86	66.0	49.8	74.8

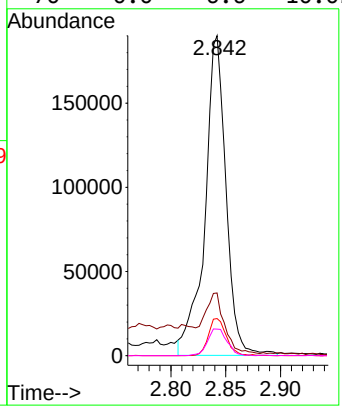




#25
Ethyl Acetate
Concen: 4.996 ppbv m
RT: 2.842 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 43 Resp: 25352

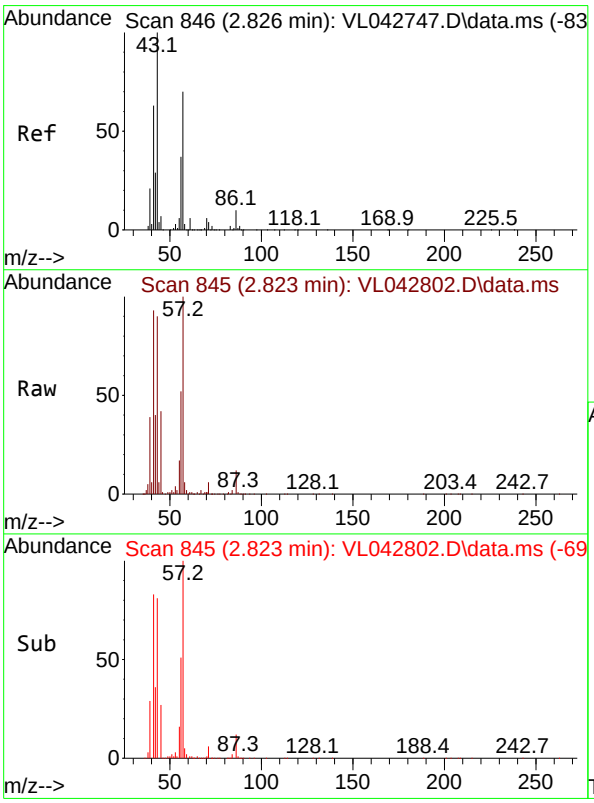
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	6.7	10.1#
70	0.0	6.6	10.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

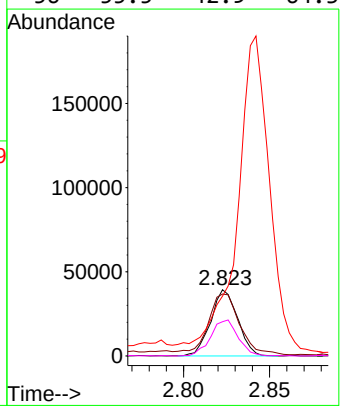
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

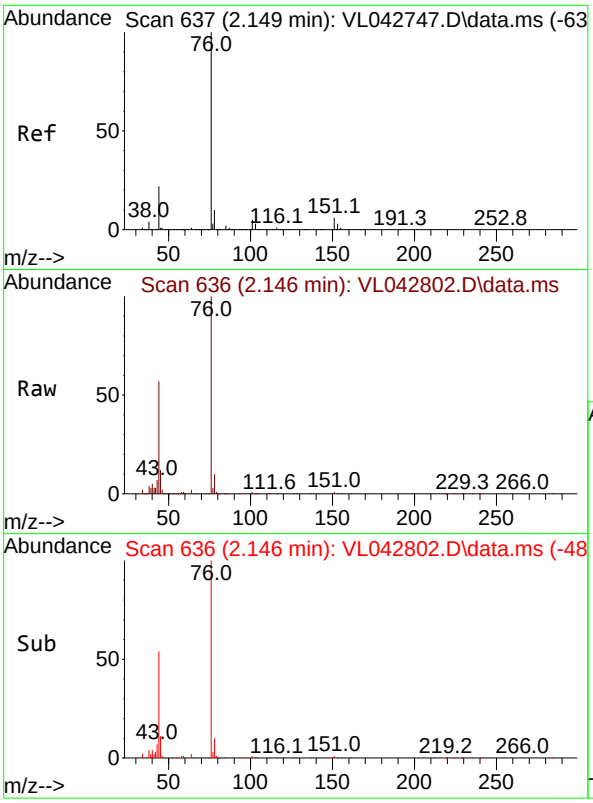


#26
Hexane
Concen: 1.924 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 57 Resp: 42838

Ion	Ratio	Lower	Upper
57	100		
41	117.1	75.4	113.2#
43	637.0	185.0	277.6#
56	55.5	42.9	64.3





#27
Carbon Disulfide
Concen: 3.257 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

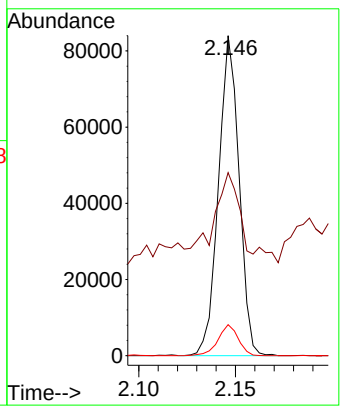
Tgt Ion: 76 Resp: 6206

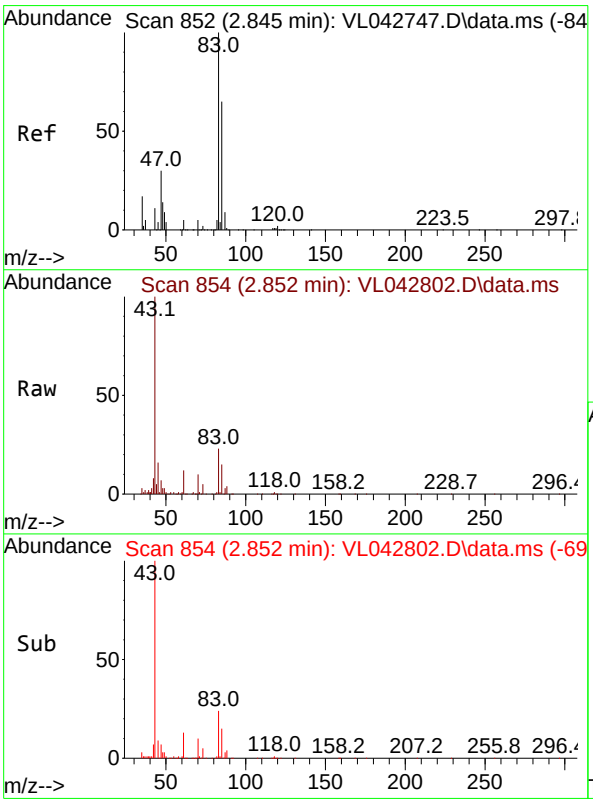
Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.5	9.9	14.9#

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

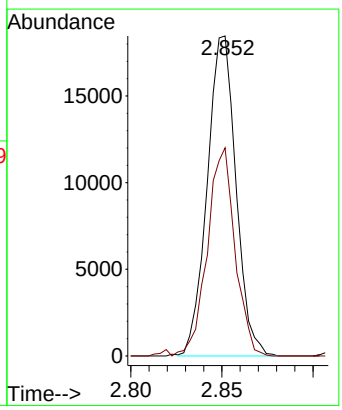


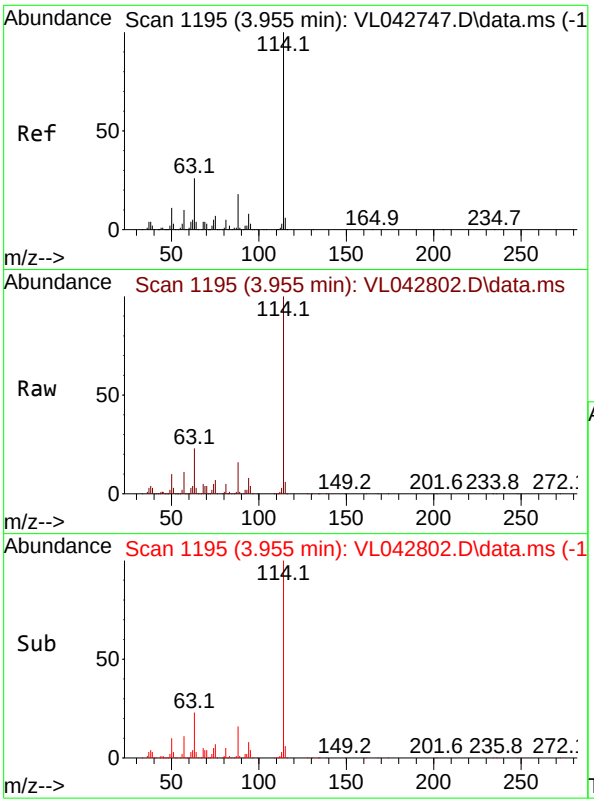


#29
Chloroform
Concen: 0.590 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 83 Resp: 20293

Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.2	78.2

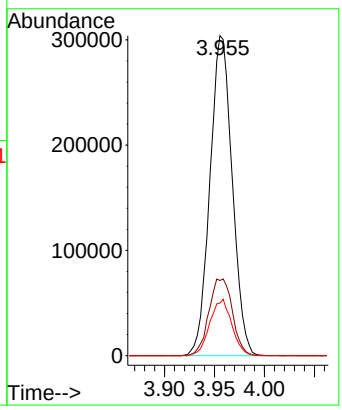




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion:114 Resp: 47181

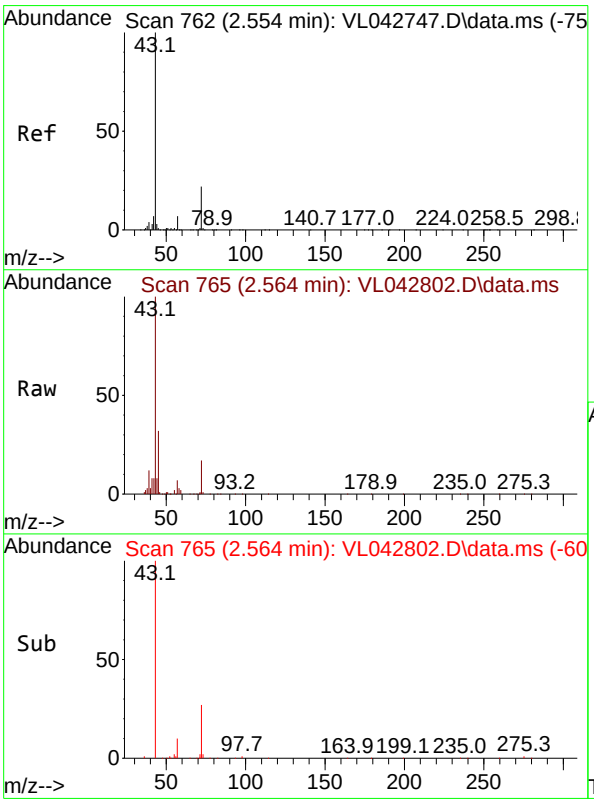
Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.5	30.7
88	17.4	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

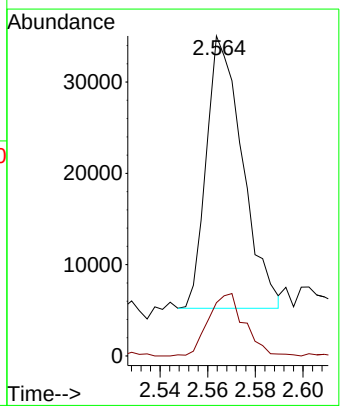
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

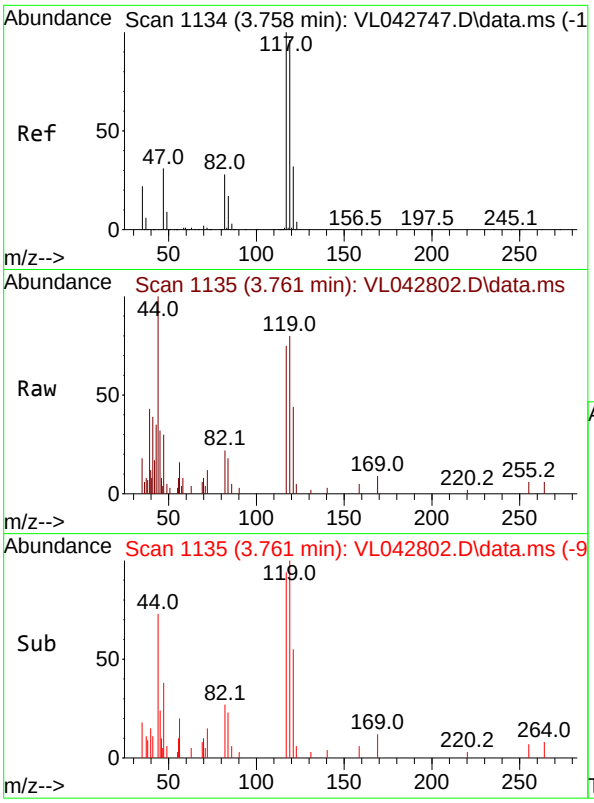


#34
2-Butanone
Concen: 0.938 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 43 Resp: 31346

Ion	Ratio	Lower	Upper
43	100		
72	23.5	17.4	26.0

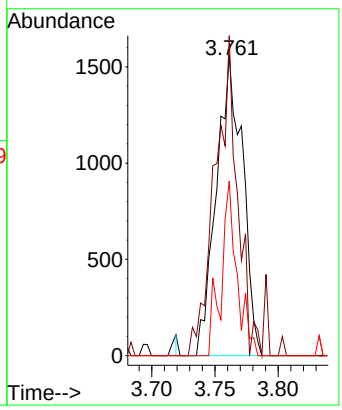




#35
Carbon Tetrachloride
Concen: 0.064 ppbv m
RT: 3.761 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion:117 Resp: 225

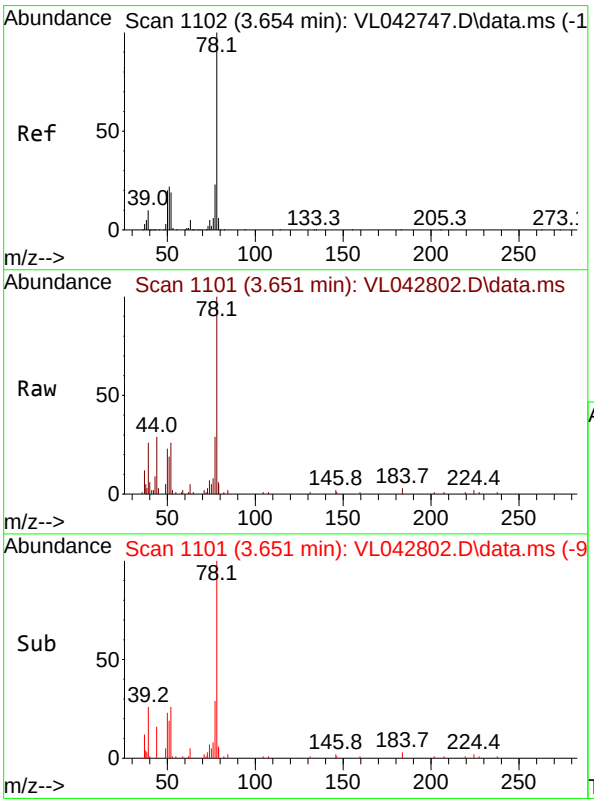
Ion	Ratio	Lower	Upper
117	100		
119	106.6	77.1	115.7
121	58.2	25.5	38.3#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

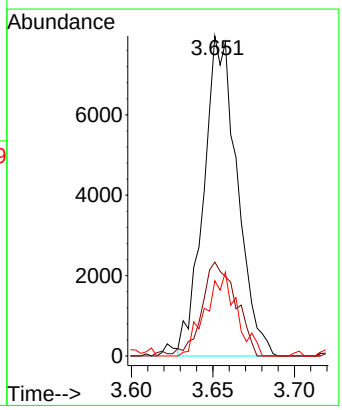
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

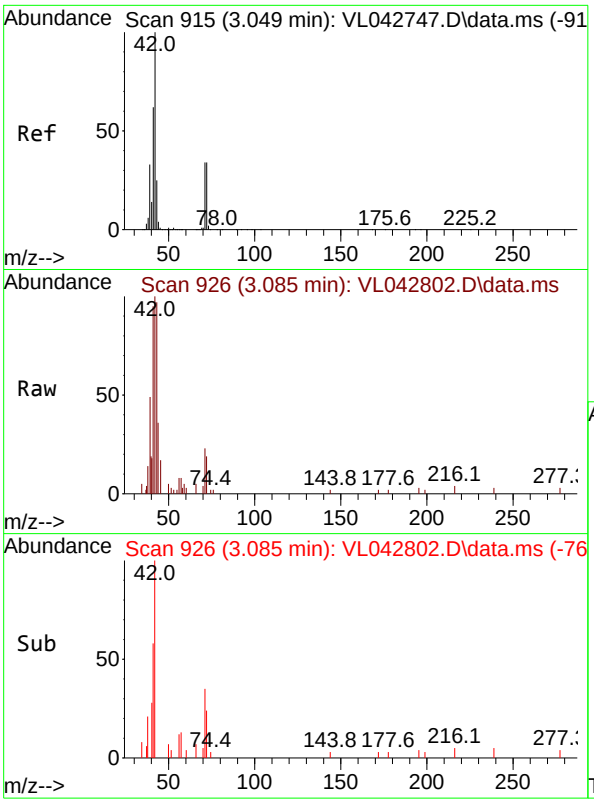


#36
Benzene
Concen: 0.255 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 78 Resp: 11411

Ion	Ratio	Lower	Upper
78	100		
77	29.3	18.5	27.7#
50	23.5	16.2	24.2

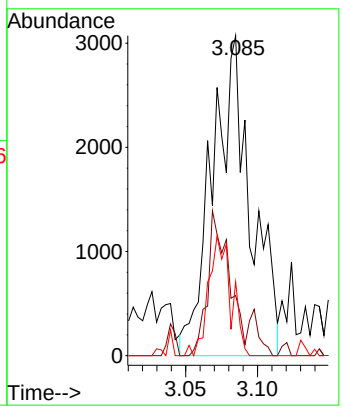




#41
Tetrahydrofuran
Concen: 0.334 ppbv m
RT: 3.085 min Scan# 9
Delta R.T. 0.036 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 42 Resp: 567

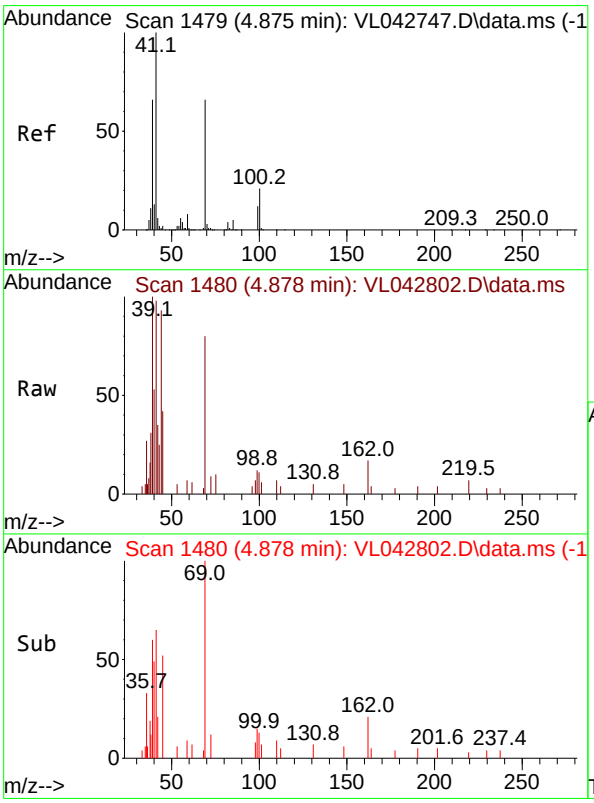
Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	0.0	28.6	43.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

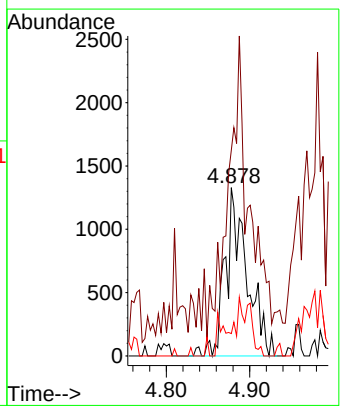
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

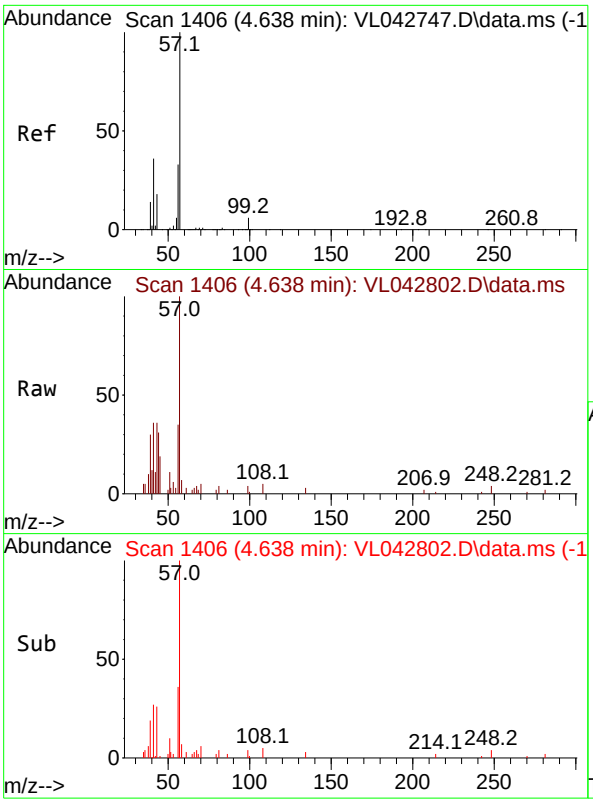


#43
Methyl Methacrylate
Concen: 0.151 ppbv m
RT: 4.878 min Scan# 1480
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 69 Resp: 2393

Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	0.0	28.6	42.8#

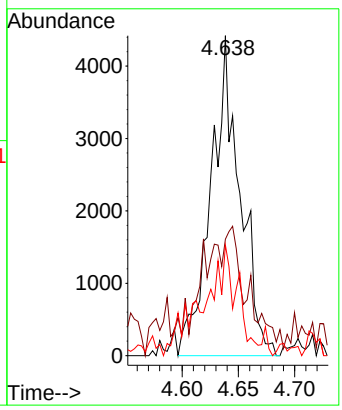




#44
2,2,4-Trimethylpentane
Concen: 0.109 ppbv m
RT: 4.638 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 57 Resp: 796

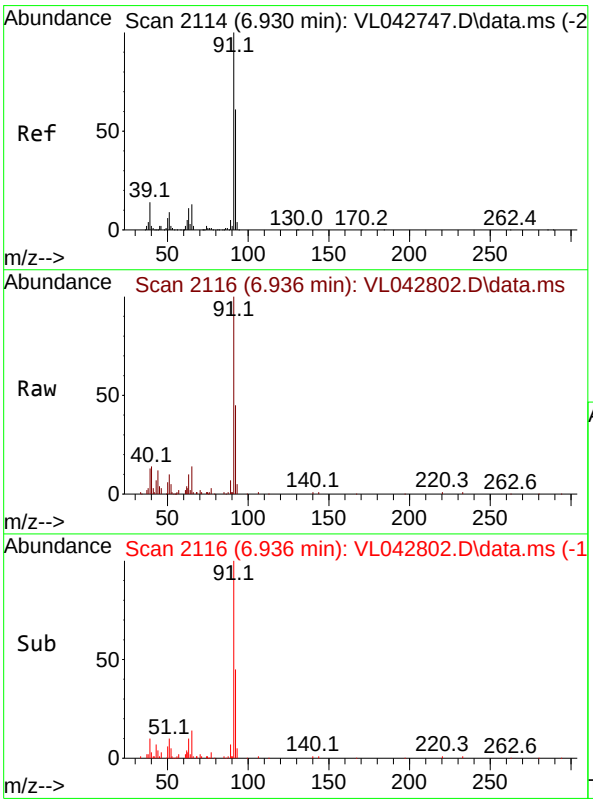
Ion	Ratio	Lower	Upper
57	100		
41	52.7	28.3	42.5#
56	45.1	25.8	38.6#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

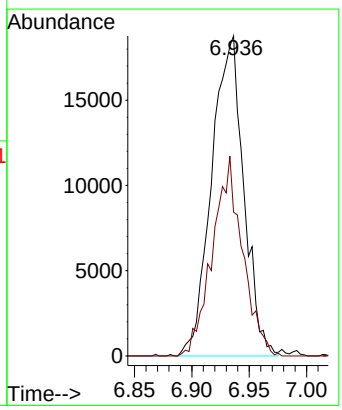
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

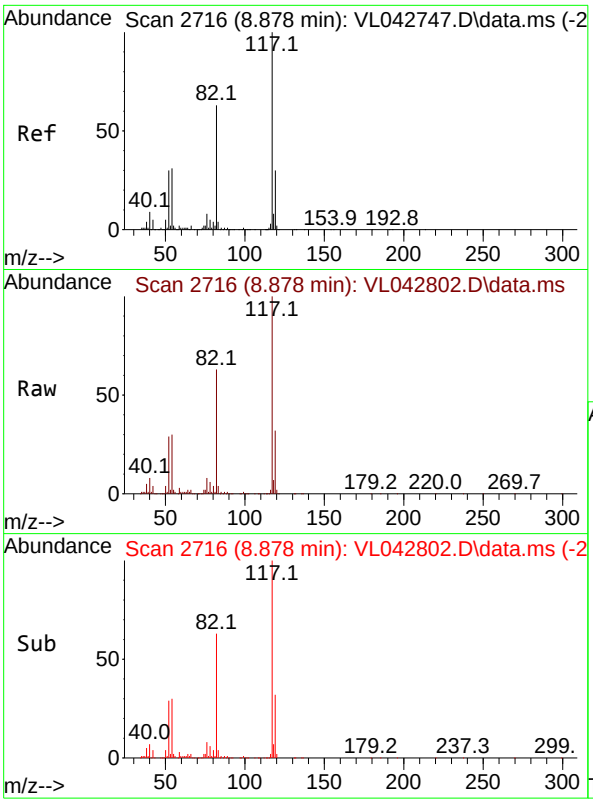


#53
Toluene
Concen: 0.761 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.006 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 91 Resp: 36533

Ion	Ratio	Lower	Upper
91	100		
92	58.3	48.0	72.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

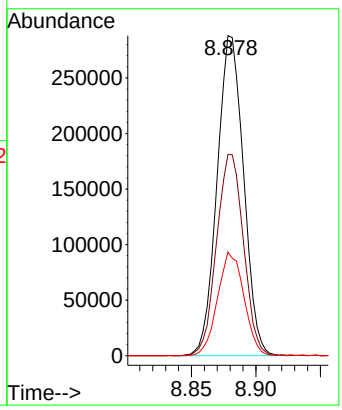
Tgt Ion:117 Resp: 41096

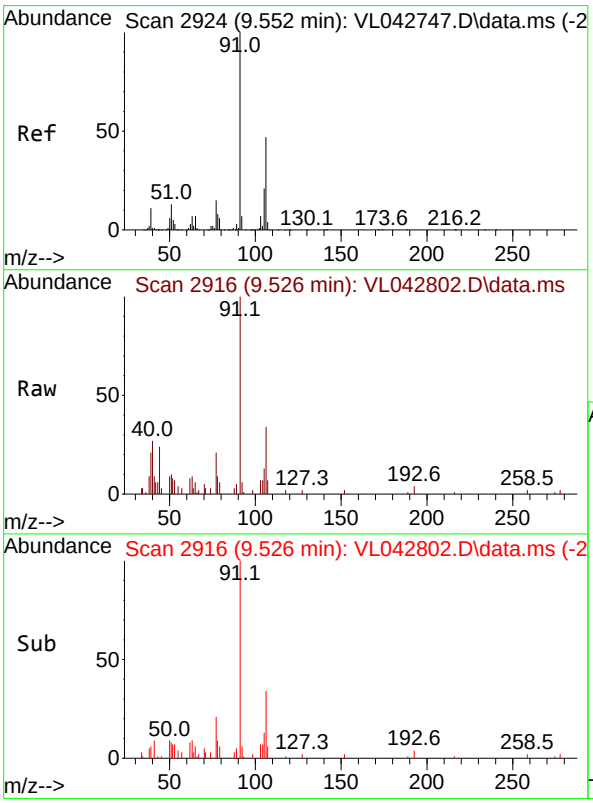
Ion	Ratio	Lower	Upper
117	100		
82	64.0	53.3	79.9
119	32.4	25.8	38.6

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

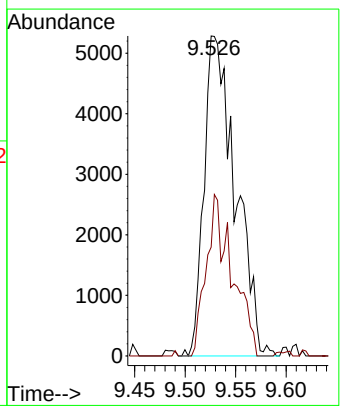


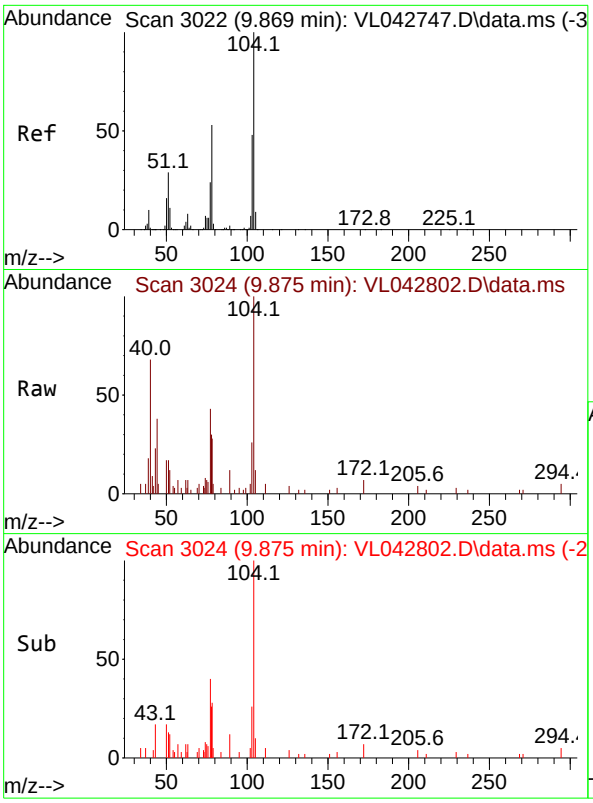


#59
m/p-Xylene
Concen: 0.220 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.026 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 91 Resp: 11420

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

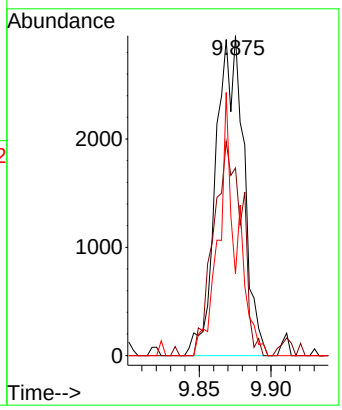




#61
Styrene
Concen: 0.183 ppbv m
RT: 9.875 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion:104 Resp: 398

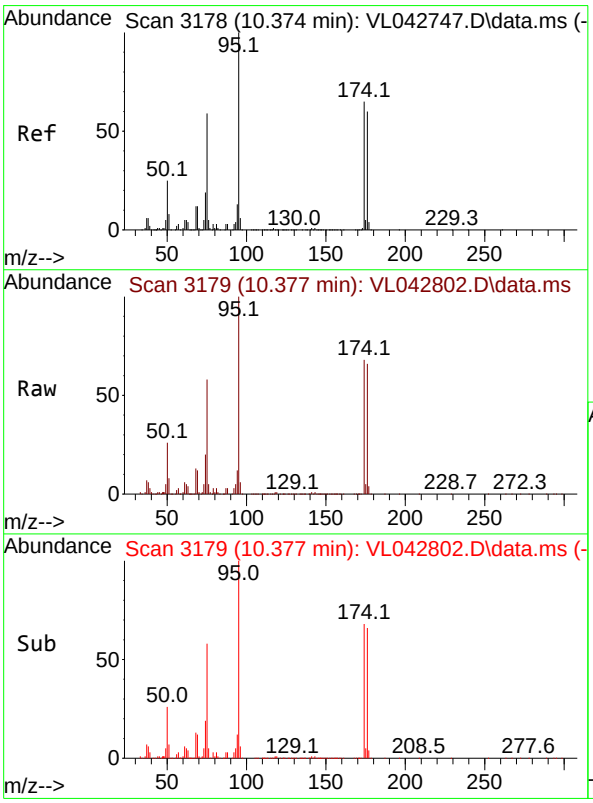
Ion	Ratio	Lower	Upper
104	100		
78	68.7	41.5	62.3#
103	52.9	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

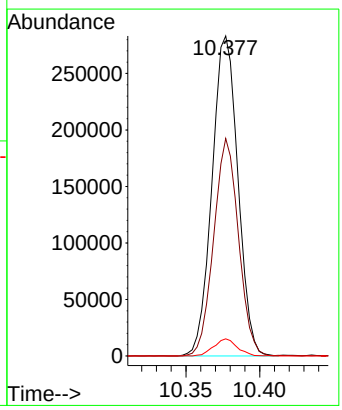
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

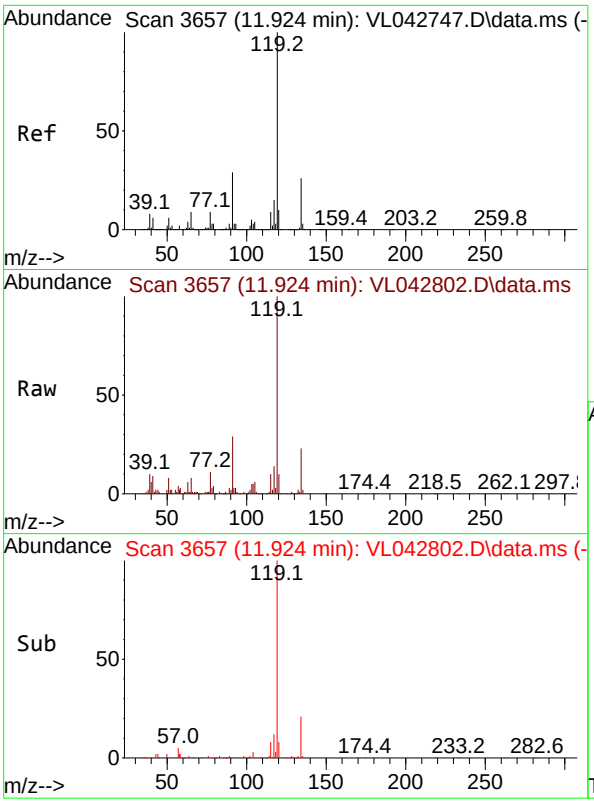


#68
1-Bromo-4-Fluorobenzene
Concen: 10.619 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 95 Resp: 345607

Ion	Ratio	Lower	Upper
95	100		
174	65.1	53.8	80.6
175	4.9	4.0	6.0





#69
p-Isopropyltoluene
Concen: 0.608 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

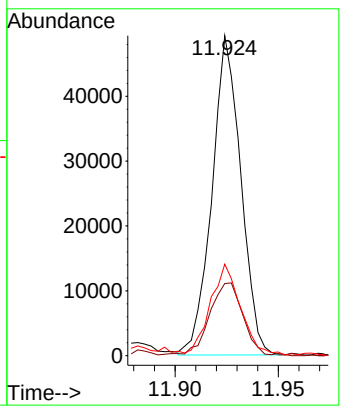
Tgt Ion:119 Resp: 4790

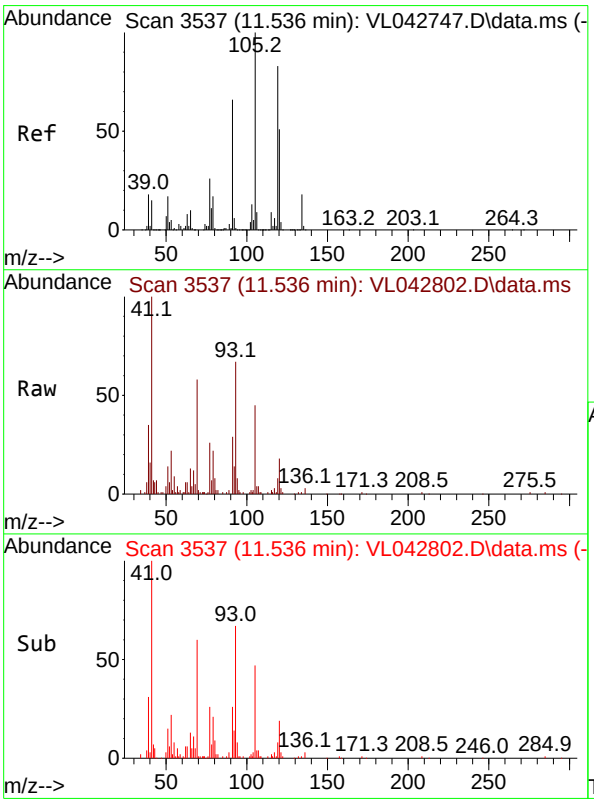
Ion	Ratio	Lower	Upper
119	100		
134	26.7	20.6	31.0
91	30.5	23.2	34.8

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

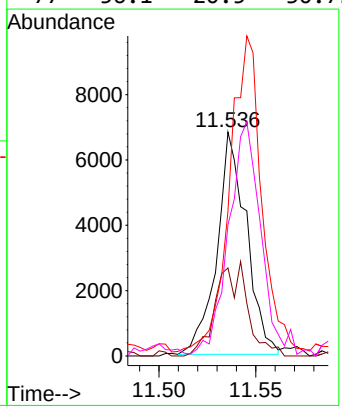


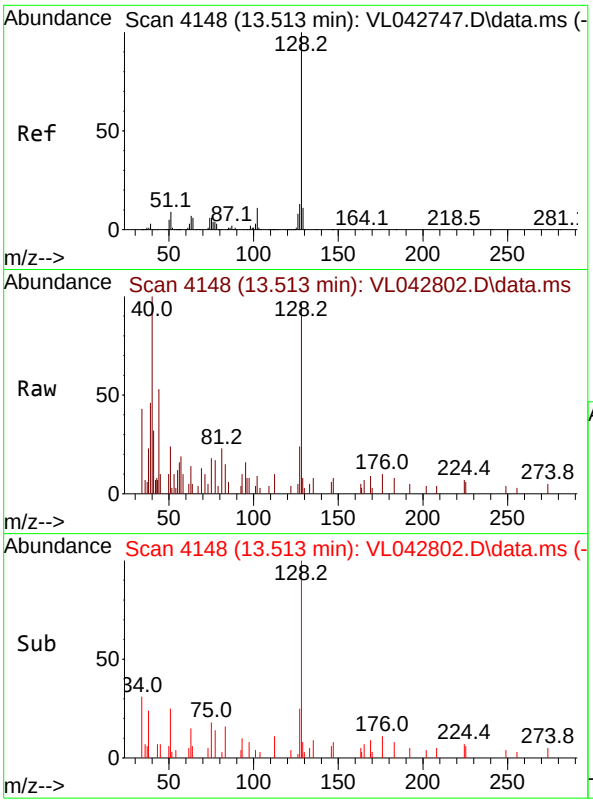


#74
1,2,4-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion:105 Resp: 7196

Ion	Ratio	Lower	Upper
105	100		
120	39.6	40.8	61.2#
91	63.1	53.0	79.4
77	56.1	20.5	30.7#

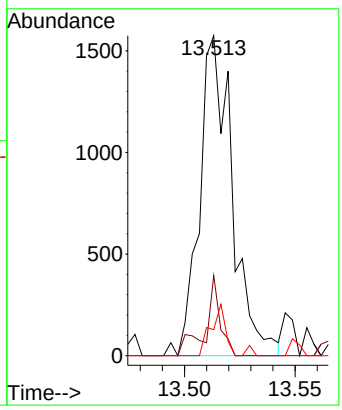




#79
Naphthalene
Concen: 0.461 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion:128 Resp: 160

Ion	Ratio	Lower	Upper
128	100		
127	25.1	10.5	15.7#
129	8.2	8.6	13.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042802.D
Acq On : 04 Aug 2025 13:30
Operator : SY/MD
Sample : Q2750-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042802.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.421	409	412	416	rBV	4878380	4924174	11.26%	3.257%
2	1.437	416	417	423	rVV	4657010	2100972	4.80%	1.389%
3	1.473	423	428	430	rVV	5299430	3047387	6.97%	2.015%
4	1.486	430	432	439	rVB	2836775	1249942	2.86%	0.827%
5	1.557	450	454	459	rVB	5748792	3090931	7.07%	2.044%
6	1.725	497	506	527	rBV	3549019	8924369	20.40%	5.902%
7	1.832	535	539	547	rBV	4697804	3868850	8.85%	2.559%
8	1.926	550	568	569	rBV2	17861437	43737113	100.00%	28.926%
9	1.965	569	580	581	rVV2	18795301	42017525	96.07%	27.789%
10	1.984	581	586	590	rVV2	19474300	25978154	59.40%	17.181%
11	2.787	825	834	840	rBV	629541	652041	1.49%	0.431%
12	3.955	1181	1195	1208	rBV	779386	1230178	2.81%	0.814%
13	8.878	2704	2716	2730	rBV	991737	1467148	3.35%	0.970%
14	10.377	3161	3179	3189	rBV	1395144	1707047	3.90%	1.129%
15	10.856	3319	3327	3337	rVB2	611630	698240	1.60%	0.462%
16	11.426	3493	3503	3514	rVB2	855090	963270	2.20%	0.637%
17	11.850	3625	3634	3643	rBV	1418014	1519060	3.47%	1.005%
18	12.041	3685	3693	3703	rBV	3787369	4028234	9.21%	2.664%

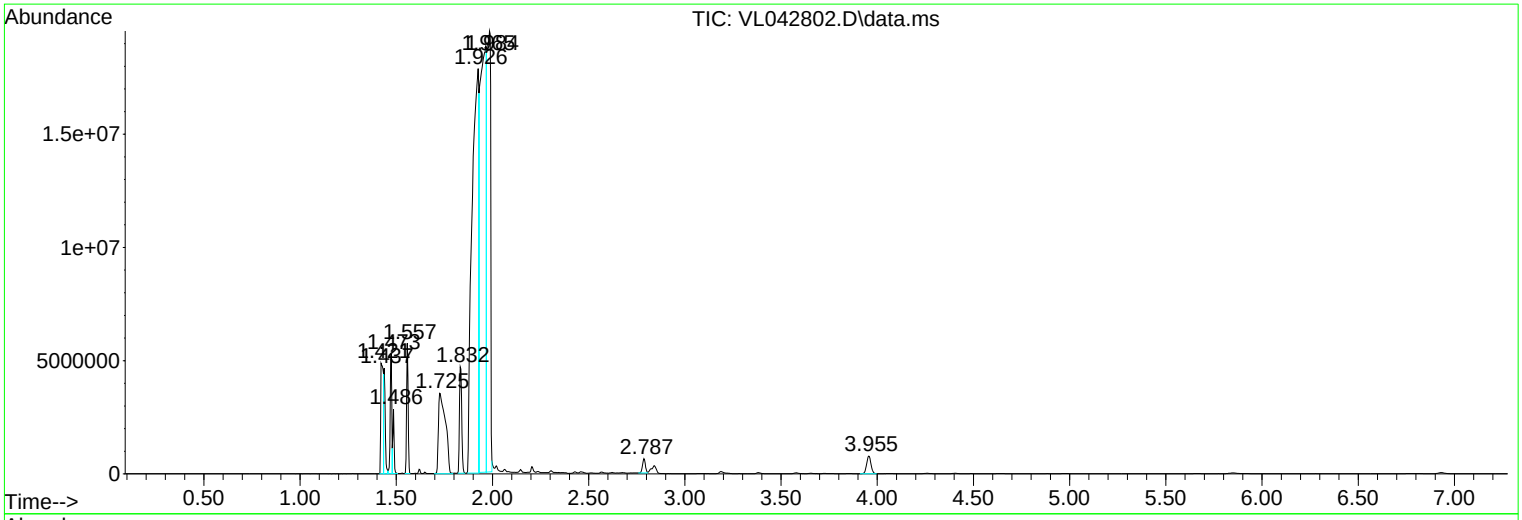
Sum of corrected areas: 151204635

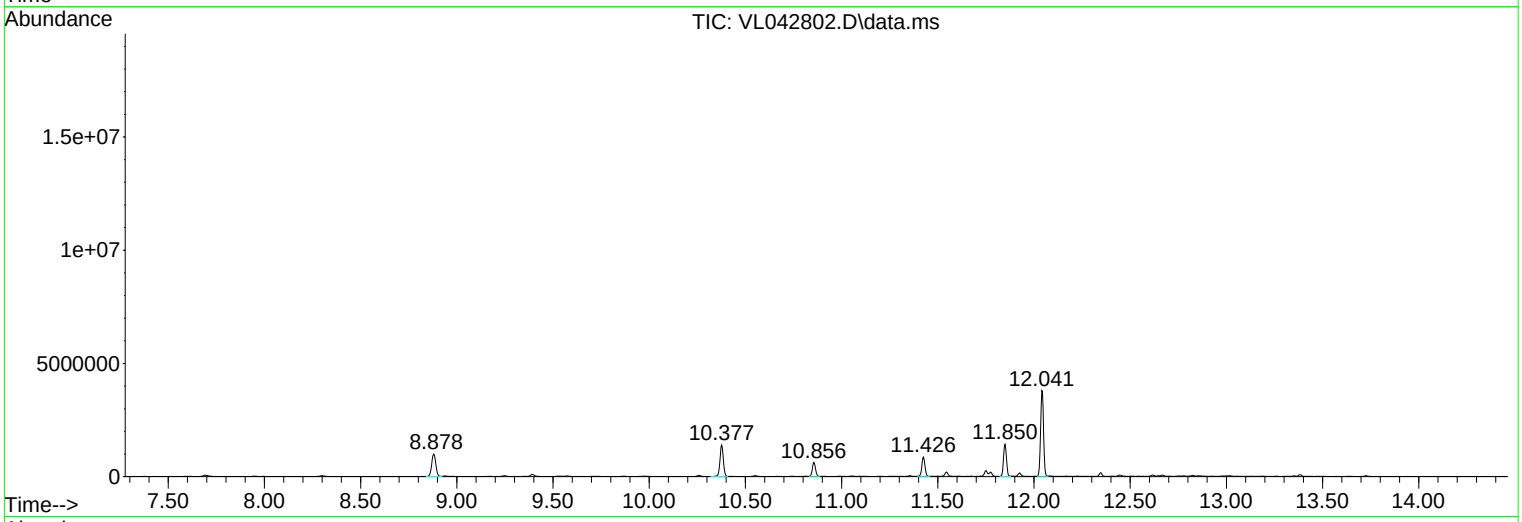
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042802.D
Acq On : 04 Aug 2025 13:30
Operator : SY/MD
Sample : Q2750-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

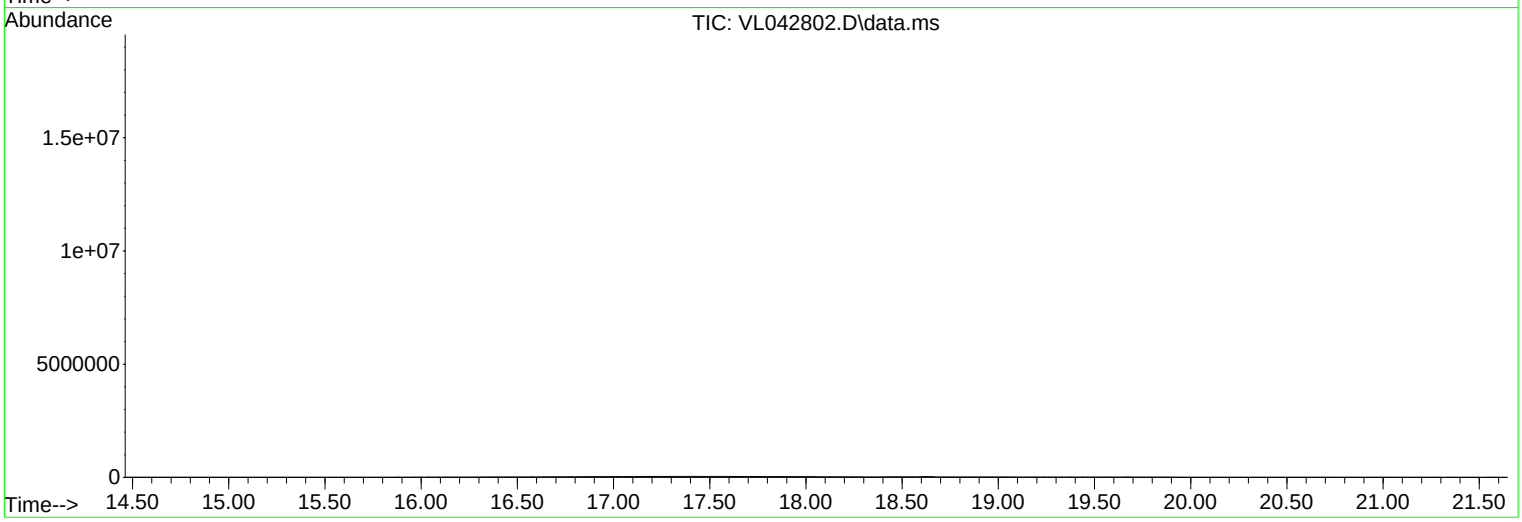
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042802.D
Acq On : 04 Aug 2025 13:30
Operator : SY/MD
Sample : Q2750-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

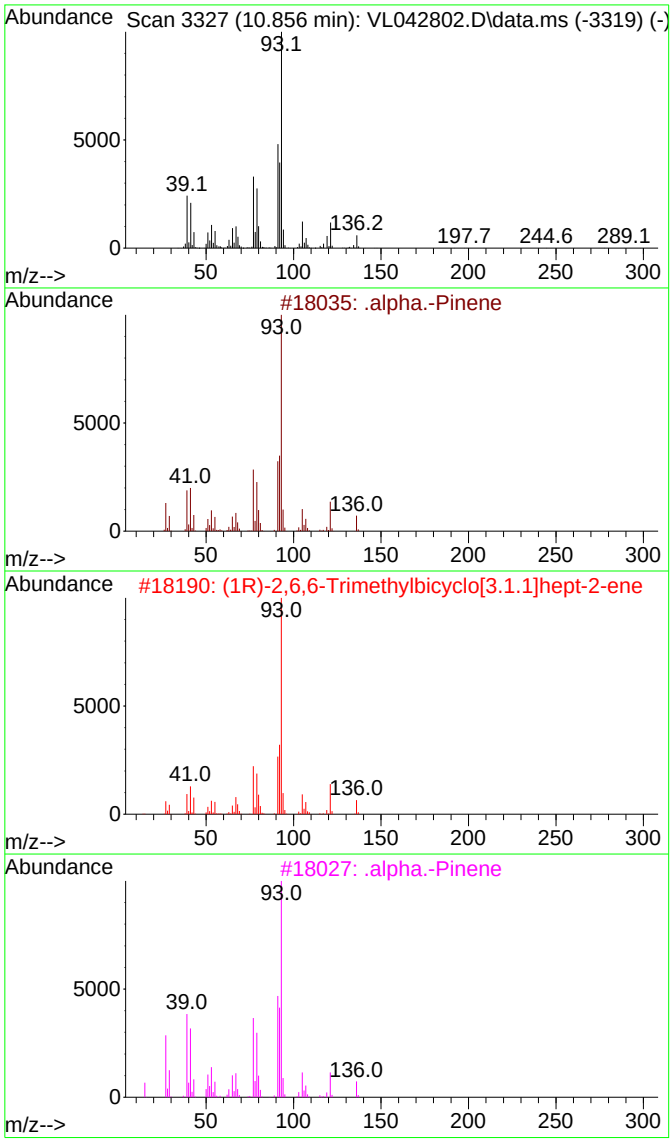
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

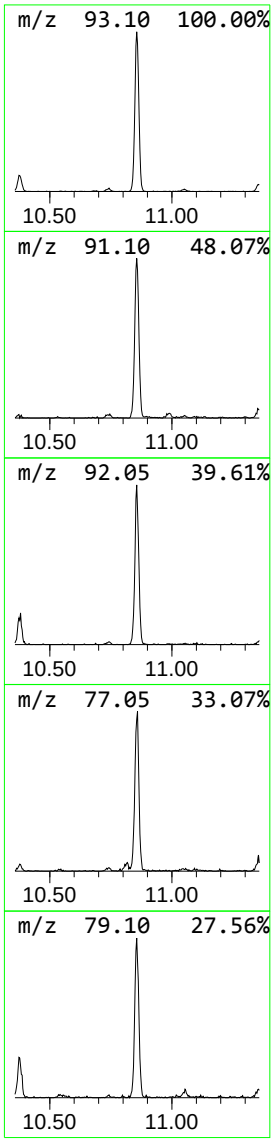
****

Peak Number 3 .alpha.-Pinene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.856	4.76 ppbv	698240	Chlorobenzene-d5	8.878

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Pinene	136	C10H16	000080-56-8	97
2	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	94
3	.alpha.-Pinene	136	C10H16	000080-56-8	94
4	.alpha.-Pinene	136	C10H16	000080-56-8	90
5	(+)-3-Carene	136	C10H16	000498-15-7	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042802.D
Acq On : 04 Aug 2025 13:30
Operator : SY/MD
Sample : Q2750-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

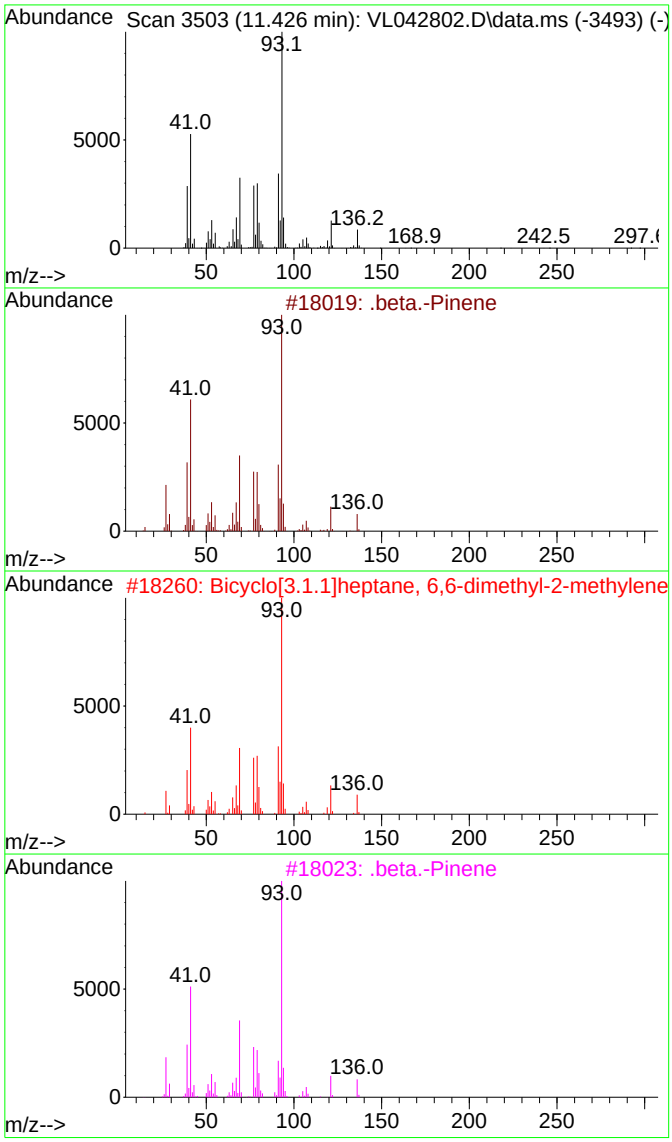
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

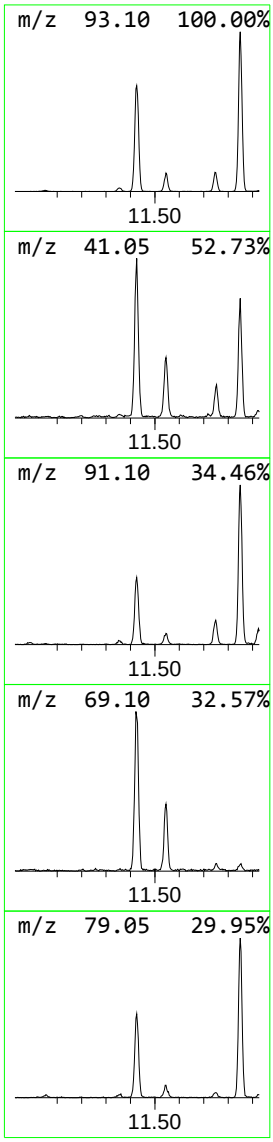
****

Peak Number 4 .beta.-Pinene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.426	6.57 ppbv	963270	Chlorobenzene-d5	8.878

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Pinene	136	C10H16	000127-91-3	96
2	Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	96
3	.beta.-Pinene	136	C10H16	000127-91-3	95
4	.alpha.-Pinene	136	C10H16	000080-56-8	93
5	.alpha.-Pinene	136	C10H16	000080-56-8	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042802.D
Acq On : 04 Aug 2025 13:30
Operator : SY/MD
Sample : Q2750-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

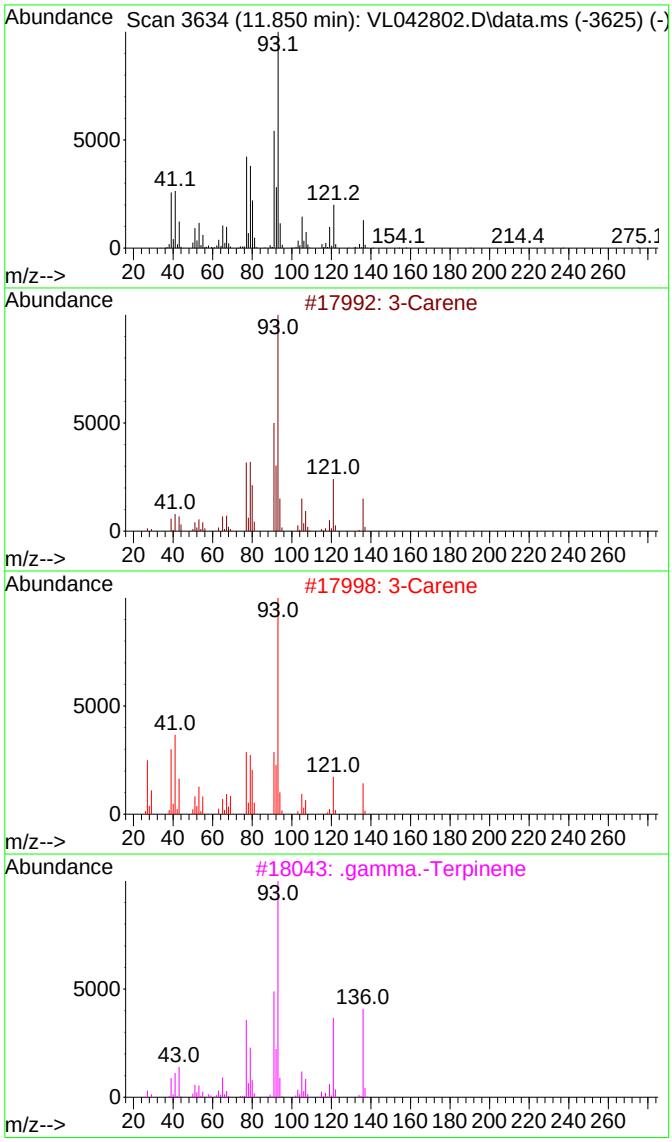
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

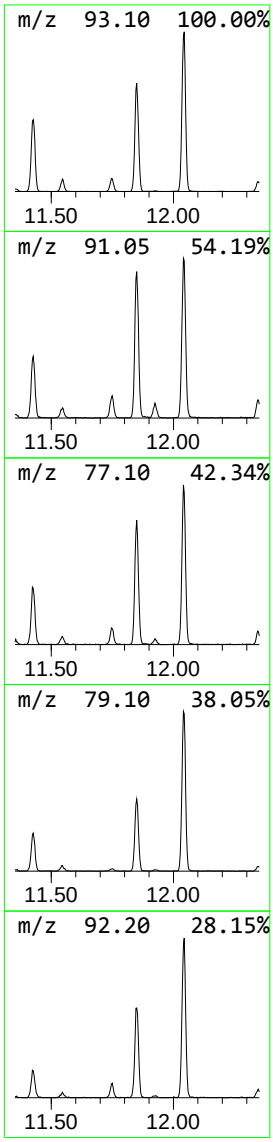
****

Peak Number 5 3-Carene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.850	10.35 ppbv	1519060	Chlorobenzene-d5	8.878

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Carene	136	C10H16	013466-78-9	94
2	3-Carene	136	C10H16	013466-78-9	94
3	.gamma.-Terpinene	136	C10H16	000099-85-4	93
4	Cyclopropane, 1,1-dimethyl-2-(3-...	136	C10H16	068998-21-0	91
5	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042802.D
Acq On : 04 Aug 2025 13:30
Operator : SY/MD
Sample : Q2750-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

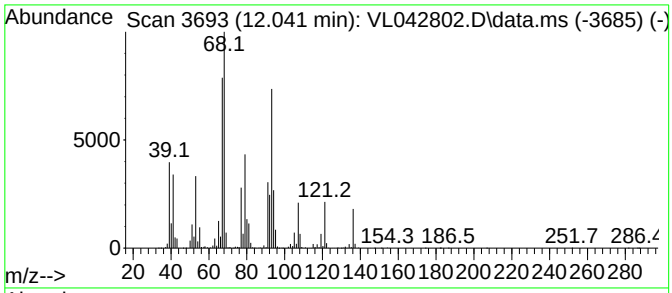
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

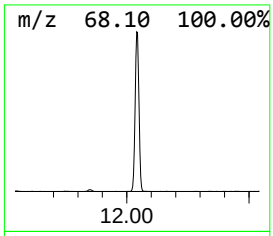
****

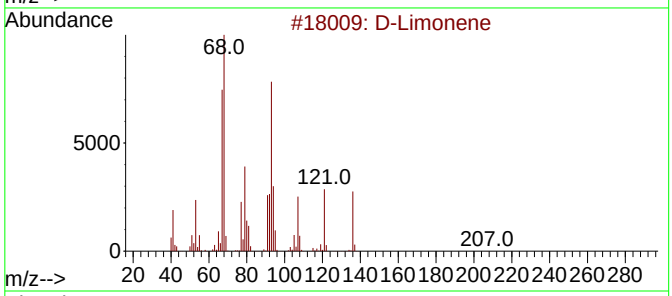
Peak Number 6 D-Limonene Concentration Rank 3

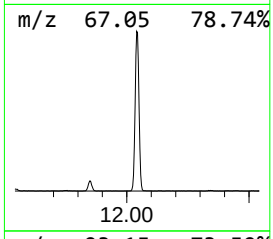
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.041	27.46 ppbv	4028230	Chlorobenzene-d5	8.878

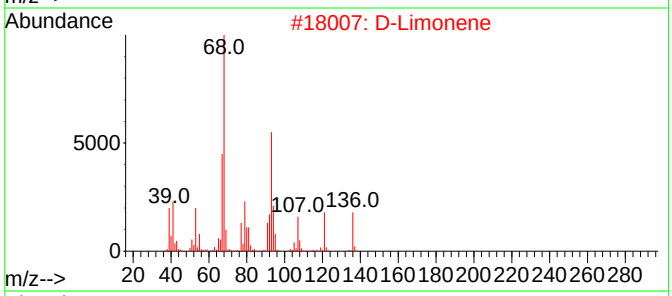
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	98
2	D-Limonene	136	C10H16	005989-27-5	94
3	D-Limonene	136	C10H16	005989-27-5	93
4	D-Limonene	136	C10H16	005989-27-5	93
5	Limonene	136	C10H16	000138-86-3	86

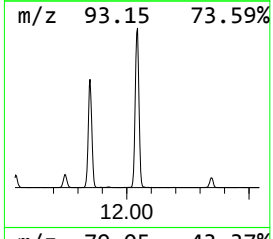


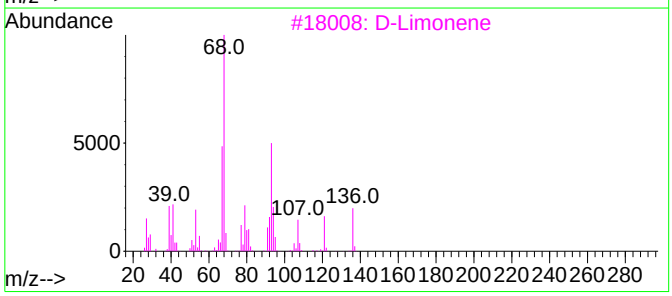


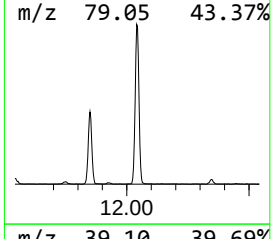


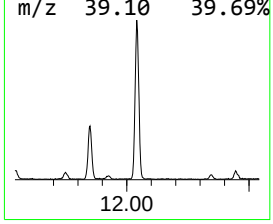












Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042802.D
Acq On : 04 Aug 2025 13:30
Operator : SY/MD
Sample : Q2750-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
.alpha.-Pinene	10.856	4.8	ppbv	698240	3	8.878	1467150	10.0
.beta.-Pinene	11.426	6.6	ppbv	963270	3	8.878	1467150	10.0
3-Carene	11.850	10.4	ppbv	1519060	3	8.878	1467150	10.0
D-Limonene	12.041	27.5	ppbv	4028230	3	8.878	1467150	10.0

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-4DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042813.D	20		08/04/25 19:41	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.20	10.9	UD	10.9	49.5	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.50	1.28	UD	1.28	1.53	ug/m3
74-83-9	Bromomethane	1.50	5.82	UD	5.82	38.8	ug/m3
75-00-3	Chloroethane	3.00	7.92	UD	7.92	26.4	ug/m3
109-99-9	Tetrahydrofuran	1.60	4.72	UD	4.72	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.40	19.1	UD	19.1	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	2.80	21.5	UD	21.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.00	21.0	UD	21.0	69.9	ug/m3
75-65-0	tert-Butyl alcohol	3.20	9.70	UD	9.70	30.3	ug/m3
142-82-5	Heptane	3.40	13.9	UD	13.9	41.0	ug/m3
75-35-4	1,1-Dichloroethene	3.00	11.9	UD	11.9	39.6	ug/m3
67-64-1	Acetone	160	380	D	8.55	23.8	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.60	16.6	UD	16.6	36.0	ug/m3
75-09-2	Methylene Chloride	7.00	24.3	JD	16.0	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	2.40	9.52	UD	9.52	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	1.10	3.24	UD	3.24	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.50	3.15	UD	3.15	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	2.00	7.93	UD	7.93	39.6	ug/m3
67-66-3	Chloroform	1.90	9.28	UD	9.28	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.32	1.75	UD	1.75	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	2.80	13.1	UD	13.1	46.7	ug/m3
71-43-2	Benzene	1.60	5.11	UD	5.11	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.90	7.69	UD	7.69	40.5	ug/m3
79-01-6	Trichloroethene	0.48	2.58	UD	2.58	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.60	12.0	UD	12.0	46.2	ug/m3
75-27-4	Bromodichloromethane	1.30	8.71	UD	8.71	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	3.20	12.1	UD	12.1	37.7	ug/m3
10061-02-6	t-1,3-Dichloropropene	3.00	13.6	UD	13.6	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.20	9.99	UD	9.99	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.60	8.73	UD	8.73	54.6	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-4DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042813.D	20		08/04/25 19:41	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	1.70	14.5	UD	14.5	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.70	13.1	UD	13.1	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	3.80	16.5	UD	16.5	43.4	ug/m3
179601-23-1	m/p-Xylene	8.20	35.6	UD	35.6	86.9	ug/m3
95-47-6	o-Xylene	4.20	18.2	UD	18.2	43.4	ug/m3
100-42-5	Styrene	3.20	13.6	UD	13.6	42.6	ug/m3
75-25-2	Bromoform	0.96	9.93	UD	9.93	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.36	2.47	UD	2.47	4.12	ug/m3
95-49-8	2-Chlorotoluene	3.40	17.6	UD	17.6	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	4.20	31.2	UD	31.2	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	2.60	27.7	UD	27.7	107	ug/m3
106-99-0	1,3-Butadiene	1.00	2.21	UD	2.21	22.1	ug/m3
91-20-3	Naphthalene	0.26	1.36	UD	1.36	10.5	ug/m3
622-96-8	4-Ethyltoluene	4.20	20.6	UD	20.6	49.2	ug/m3
110-54-3	Hexane	3.20	11.3	UD	11.3	35.2	ug/m3
107-05-1	Allyl Chloride	2.20	6.89	UD	6.89	31.3	ug/m3
123-91-1	1,4-Dioxane	4.40	15.9	UD	15.9	36.0	ug/m3
80-62-6	Methyl Methacrylate	2.80	11.5	UD	11.5	41.0	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			70 (65) - 130 (135)	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	146000		2.787			
540-36-3	1,4-Difluorobenzene	389000		3.959			
3114-55-4	Chlorobenzene-d5	333000		8.882			

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-4DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042813.D	20		08/04/25 19:41	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042813.D
Acq On : 04 Aug 2025 19:41
Operator : SY/MD
Sample : Q2750-03DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:11:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	146355	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	388590	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	332901	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	252224	9.567	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.700%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.473	51	133474	5.295	ppbv	99
9) Propene	1.486	41	10514m	1.148	ppbv	
13) Ethanol	1.722	45	252970	378.074	ppbv	89
15) Acetone	1.835	43	166188	8.223	ppbv	99
19) Isopropyl Alcohol	1.897	45	4720366	439.534	ppbv #	40
20) Methylene Chloride	2.062	84	2222	0.349	ppbv #	87

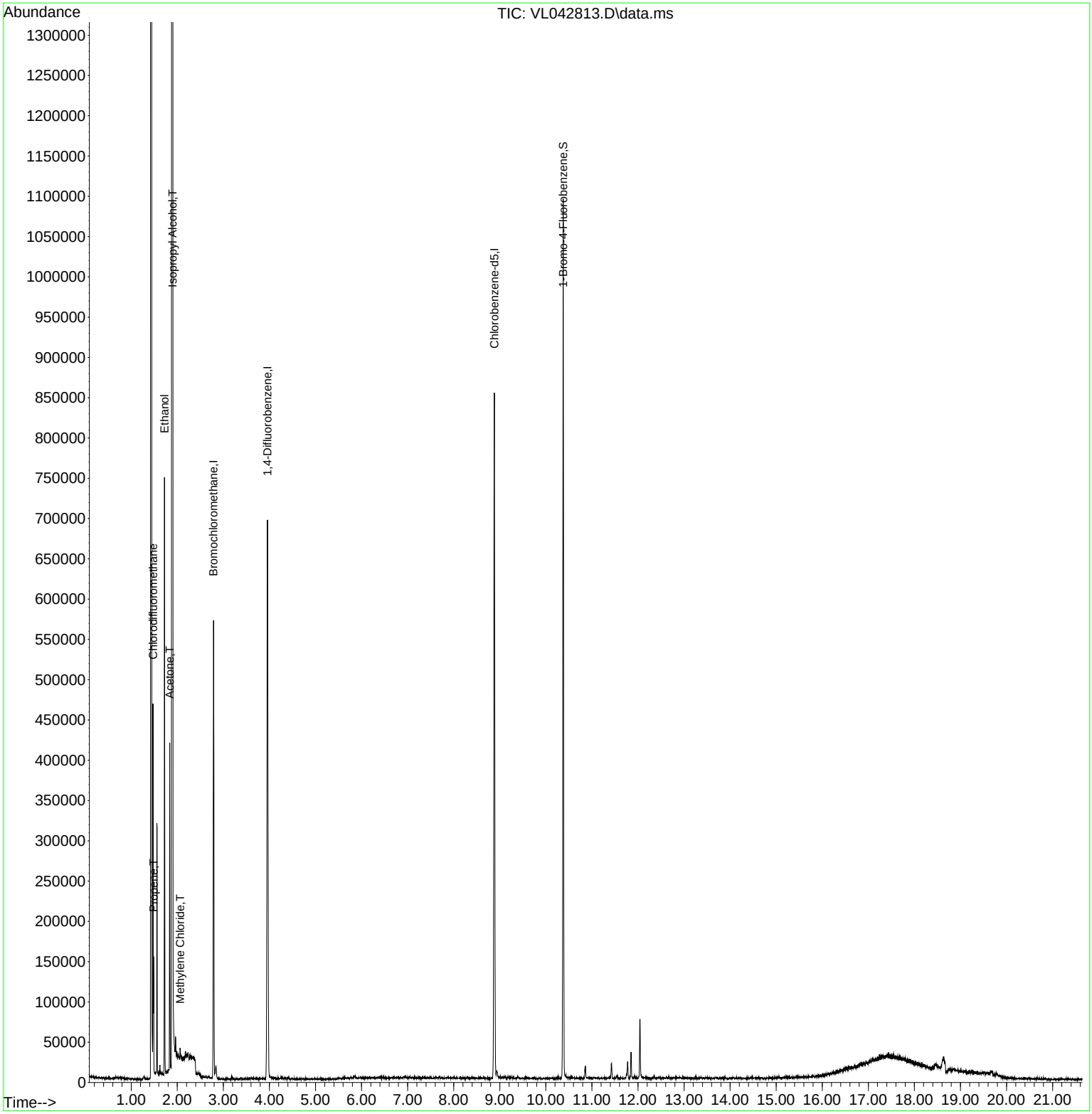
(#) = qualifier out of range (m) = manual integration (+) = signals summed

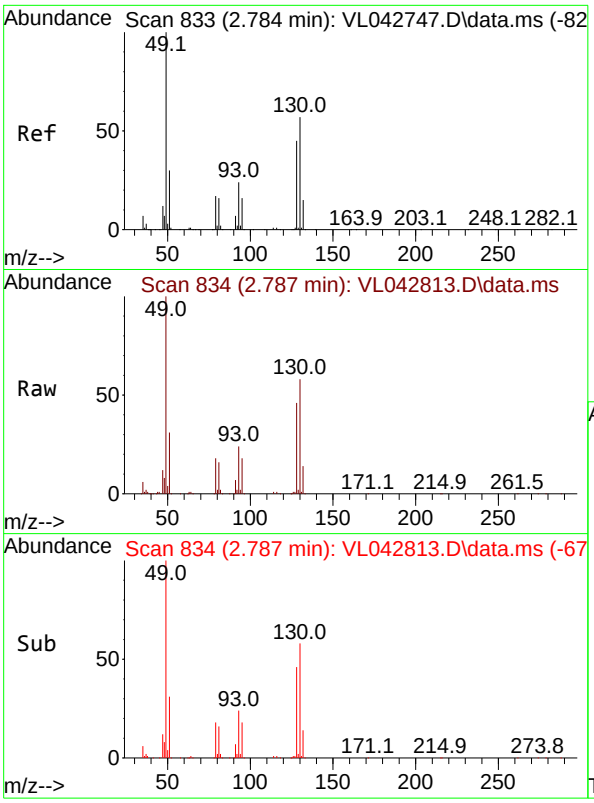
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042813.D
Acq On : 04 Aug 2025 19:41
Operator : SY/MD
Sample : Q2750-03DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:11:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

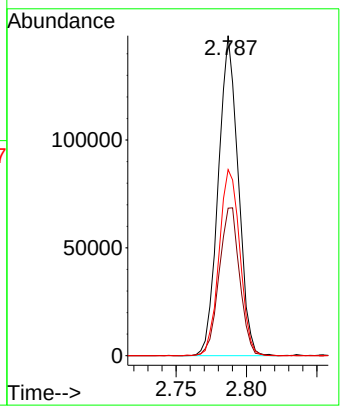




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 49 Resp: 14635

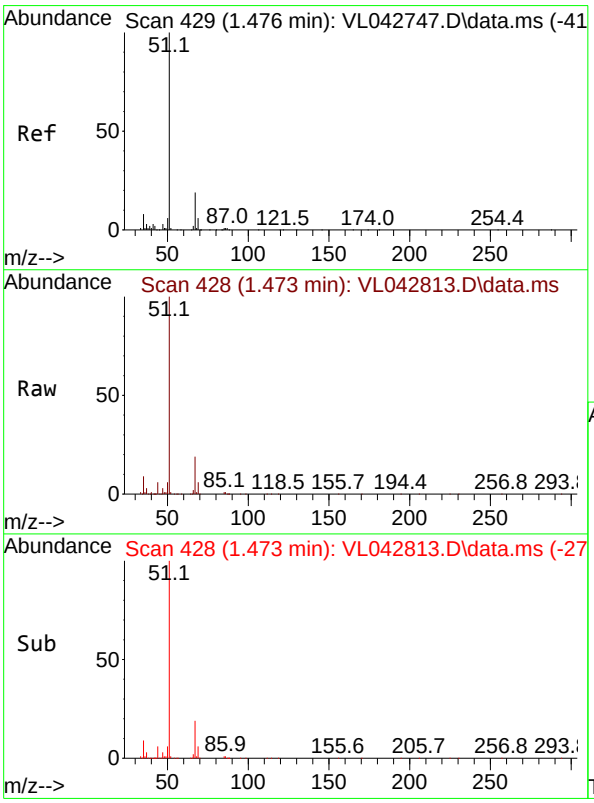
Ion	Ratio	Lower	Upper
49	100		
128	47.7	23.6	71.0
130	60.6	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Manual Integrations
APPROVED

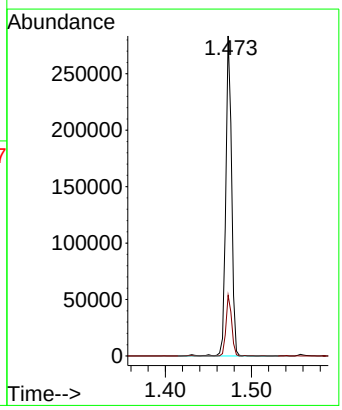
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

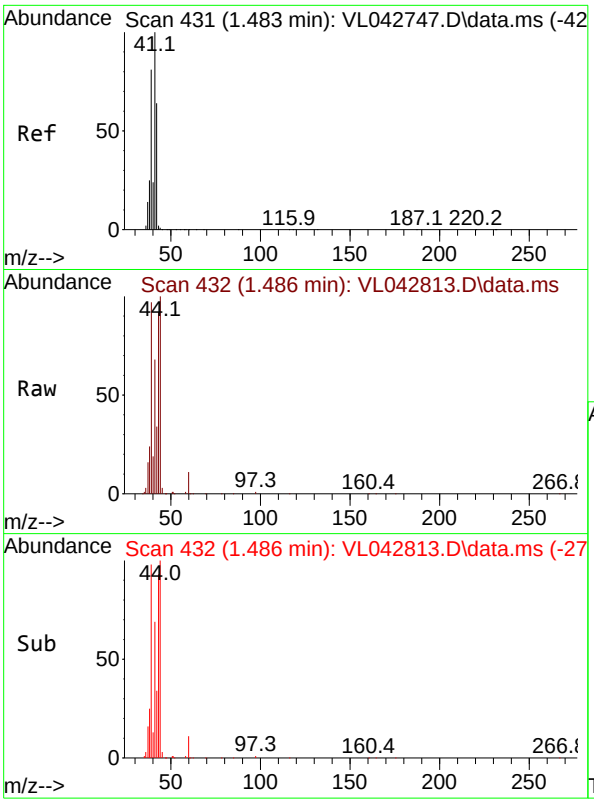


#3
Chlorodifluoromethane
Concen: 5.295 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 51 Resp: 133474

Ion	Ratio	Lower	Upper
51	100		
67	18.5	15.0	22.6

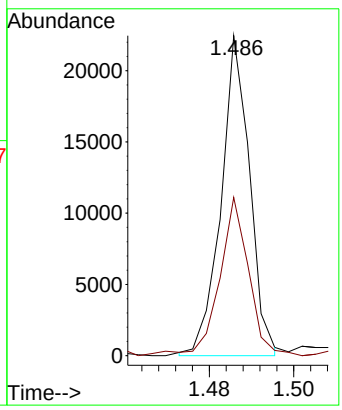




#9
Propene
Concen: 1.148 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 41 Resp: 1051

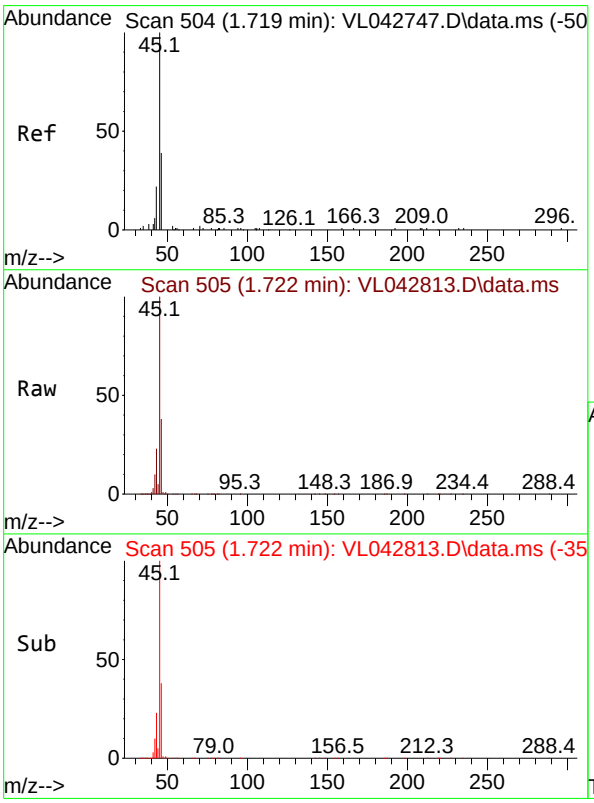
Ion	Ratio	Lower	Upper
41	100		
42	236.5	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Manual Integrations
APPROVED

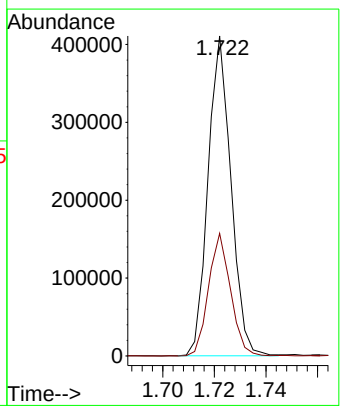
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

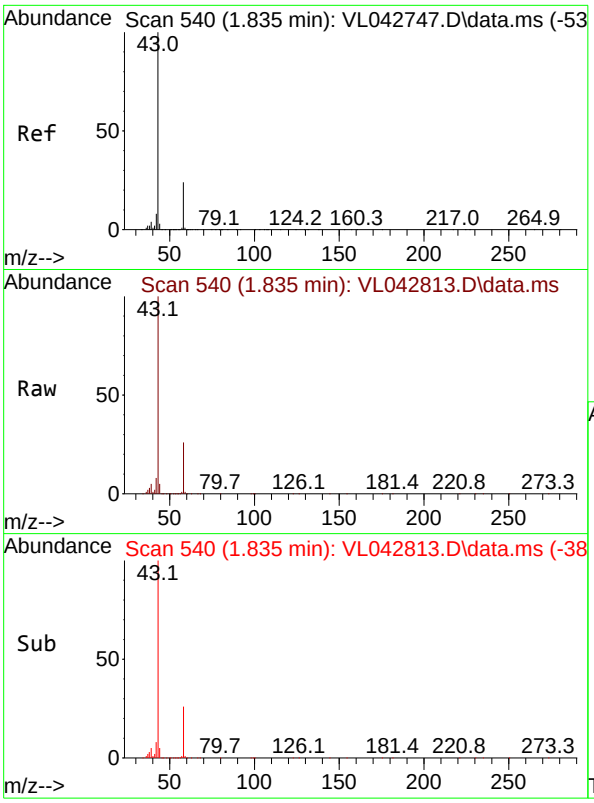


#13
Ethanol
Concen: 378.074 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 45 Resp: 252970

Ion	Ratio	Lower	Upper
45	100		
46	37.3	17.8	71.4

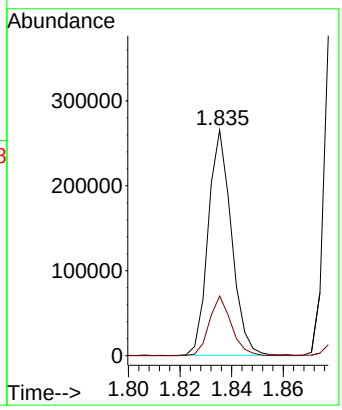




#15
Acetone
Concen: 8.223 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 43 Resp: 16618

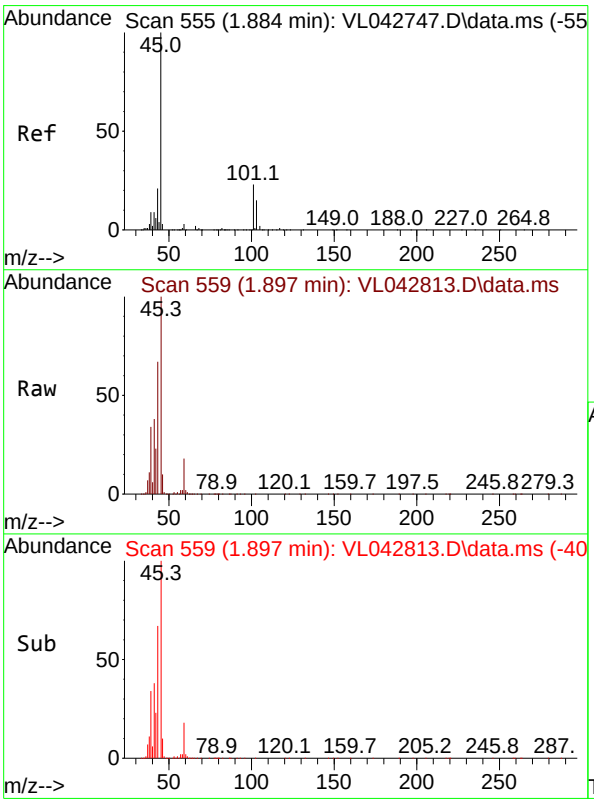
Ion	Ratio	Lower	Upper
43	100		
58	25.2	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Manual Integrations
APPROVED

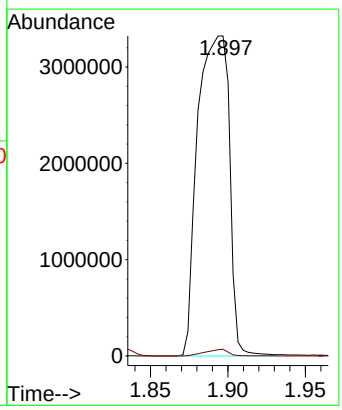
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

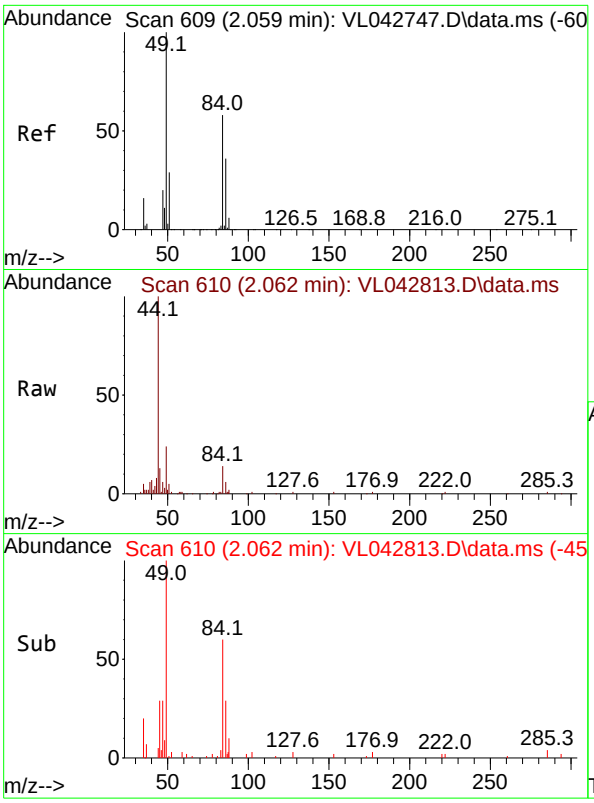


#19
Isopropyl Alcohol
Concen: 439.534 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.013 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 45 Resp: 4720366

Ion	Ratio	Lower	Upper
45	100		
58	1.6	30.0	45.0#

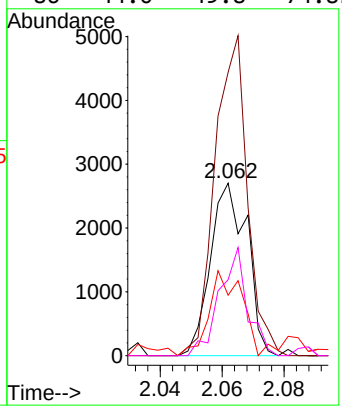




#20
Methylene Chloride
Concen: 0.349 ppbv
RT: 2.062 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 84 Resp: 222

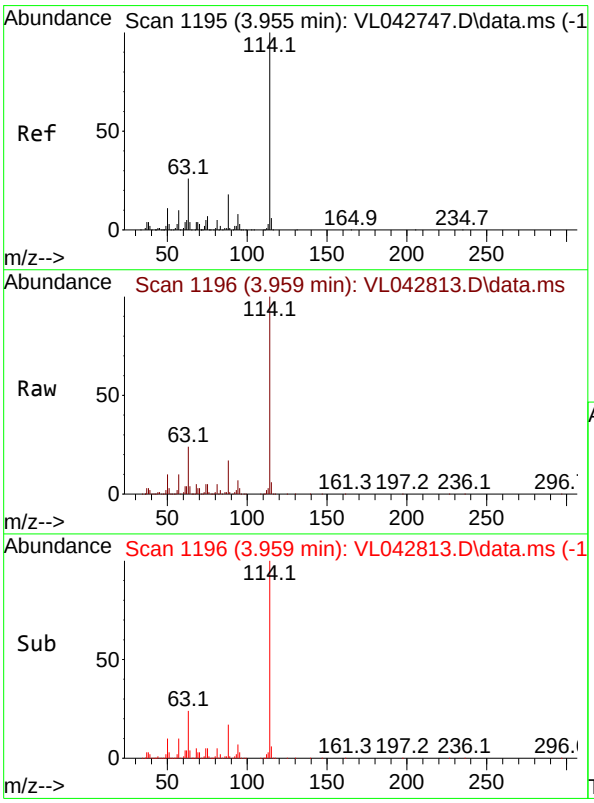
Ion	Ratio	Lower	Upper
84	100		
49	164.3	138.6	208.0
51	35.0	40.6	61.0#
86	44.0	49.8	74.8#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Manual Integrations
APPROVED

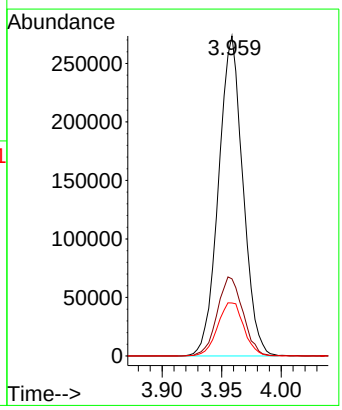
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

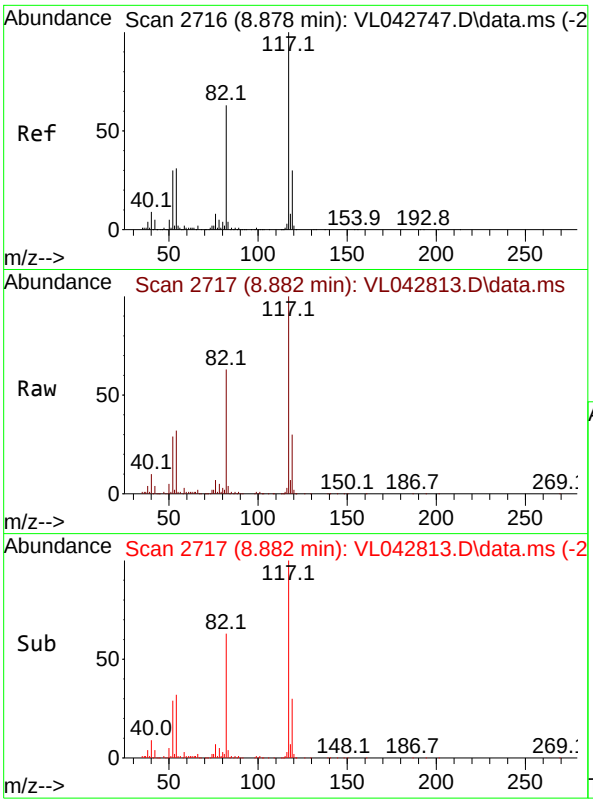


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion:114 Resp: 388590

Ion	Ratio	Lower	Upper
114	100		
63	26.0	20.5	30.7
88	17.9	14.0	21.0

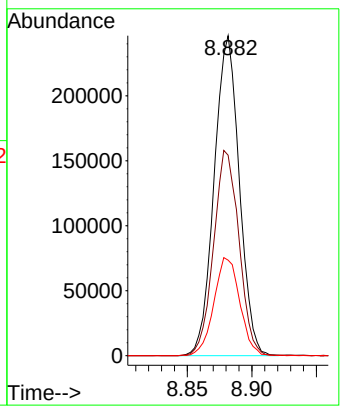




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion:117 Resp: 33290

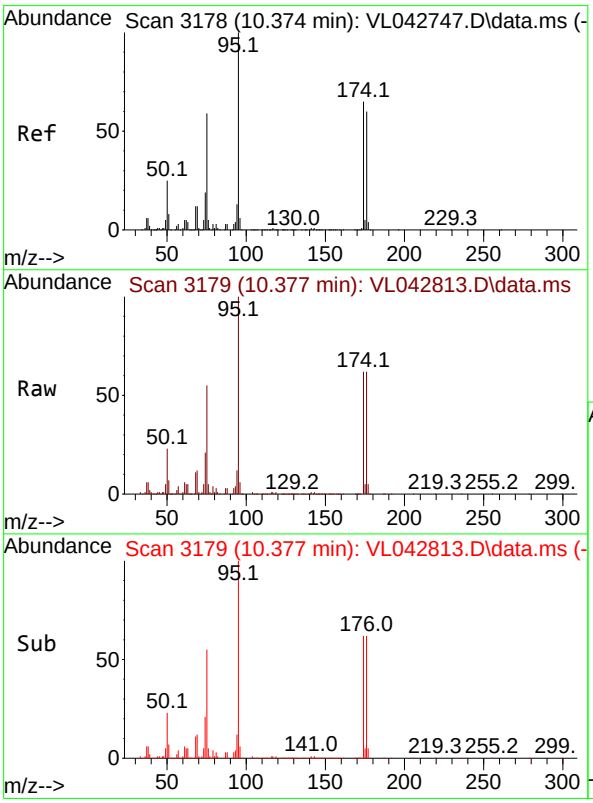
Ion	Ratio	Lower	Upper
117	100		
82	64.8	53.3	79.9
119	31.7	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Manual Integrations
APPROVED

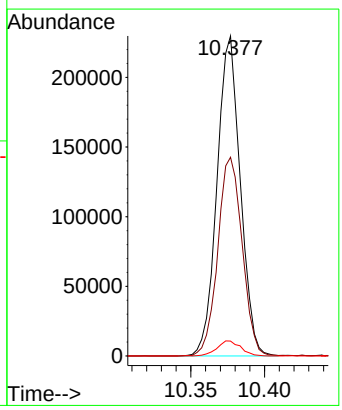
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.567 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 95 Resp: 252224

Ion	Ratio	Lower	Upper
95	100		
174	65.1	53.8	80.6
175	4.8	4.0	6.0



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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-5	SDG No.:	Q2750
Lab Sample ID:	Q2750-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042803.D	1		08/04/25 14:03	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.54	2.67		0.54	2.47	ug/m3
74-87-3	Chloromethane	0.67	1.38		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	96.0	228	E	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	8.20	28.5		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	1.20	3.54		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.060	0.38		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.55	2.69		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.26	0.83	J	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.82	3.09		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-5	SDG No.:	Q2750
Lab Sample ID:	Q2750-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042803.D	1		08/04/25 14:03	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.20	0.85	J	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	J	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.48	2.52		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	6.60	23.3		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.15	0.61	J	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			70 (65) - 130 (135)	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	165000		2.787			
540-36-3	1,4-Difluorobenzene	475000		3.956			
3114-55-4	Chlorobenzene-d5	411000		8.879			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	55.1		J		1.47	ppbv
115-07-1	Propene	14.7		J		1.49	ppbv
64-17-5	Ethanol	6200		J		1.73	ppbv

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-5	SDG No.:	Q2750
Lab Sample ID:	Q2750-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042803.D	1		08/04/25 14:03	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	2200		J		1.99	ppbv
141-78-6	Ethyl Acetate	4.50		J		2.84	ppbv
000080-56-8	.alpha.-Pinene	5.10		J		10.9	ppbv
000127-91-3	.beta.-Pinene	7.20		J		11.4	ppbv
013466-78-9	3-Carene	11.0		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.64		J		11.9	ppbv
005989-27-5	D-Limonene	30.3		J		12.0	ppbv
1000497-07-6	5-(4-Fluorophenyl)-1,3-oxazole-2(3	5.70		J		13.4	ppbv

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\VL080425\
Data File : VL042803.D
Acq On : 04 Aug 2025 14:03
Operator : SY/MD
Sample : Q2750-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:05:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	164794	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	474917	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	410663	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	346200	10.645	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 106.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	11738m	0.539	ppbv	
3) Chlorodifluoromethane	1.473	51	1564377	55.117	ppbv #	84
4) Chloromethane	1.528	50	5862	0.665	ppbv	98
9) Propene	1.486	41	151819m	14.717	ppbv	
11) Trichlorofluoromethane	1.875	101	4804	0.214	ppbv	85
13) Ethanol	1.726	45	4625427	6156.946	ppbv	93
15) Acetone	1.833	43	2183939	95.974	ppbv #	80
19) Isopropyl Alcohol	1.988	45	26055478m	2154.676	ppbv	
20) Methylene Chloride	2.062	84	58902	8.214	ppbv	95
25) Ethyl Acetate	2.839	43	225209m	4.471	ppbv	
26) Hexane	2.823	57	145822	6.600	ppbv	96
27) Carbon Disulfide	2.147	76	60059	3.175	ppbv #	65
29) Chloroform	2.849	83	18805	0.551	ppbv	99
34) 2-Butanone	2.564	43	39111	1.163	ppbv	99
35) Carbon Tetrachloride	3.762	117	2200m	0.062	ppbv	
36) Benzene	3.655	78	11806	0.262	ppbv #	91
43) Methyl Methacrylate	4.878	69	2411m	0.151	ppbv	
53) Toluene	6.927	91	39418	0.816	ppbv	99
59) m/p-Xylene	9.529	91	11294m	0.218	ppbv	
61) Styrene	9.872	104	4275m	0.196	ppbv	
69) p-Isopropyltoluene	11.924	119	50306	0.639	ppbv	99
74) 1,2,4-Trimethylbenzene	11.533	105	9966	0.179	ppbv #	83
79) Naphthalene	13.510	128	2763	0.479	ppbv #	95

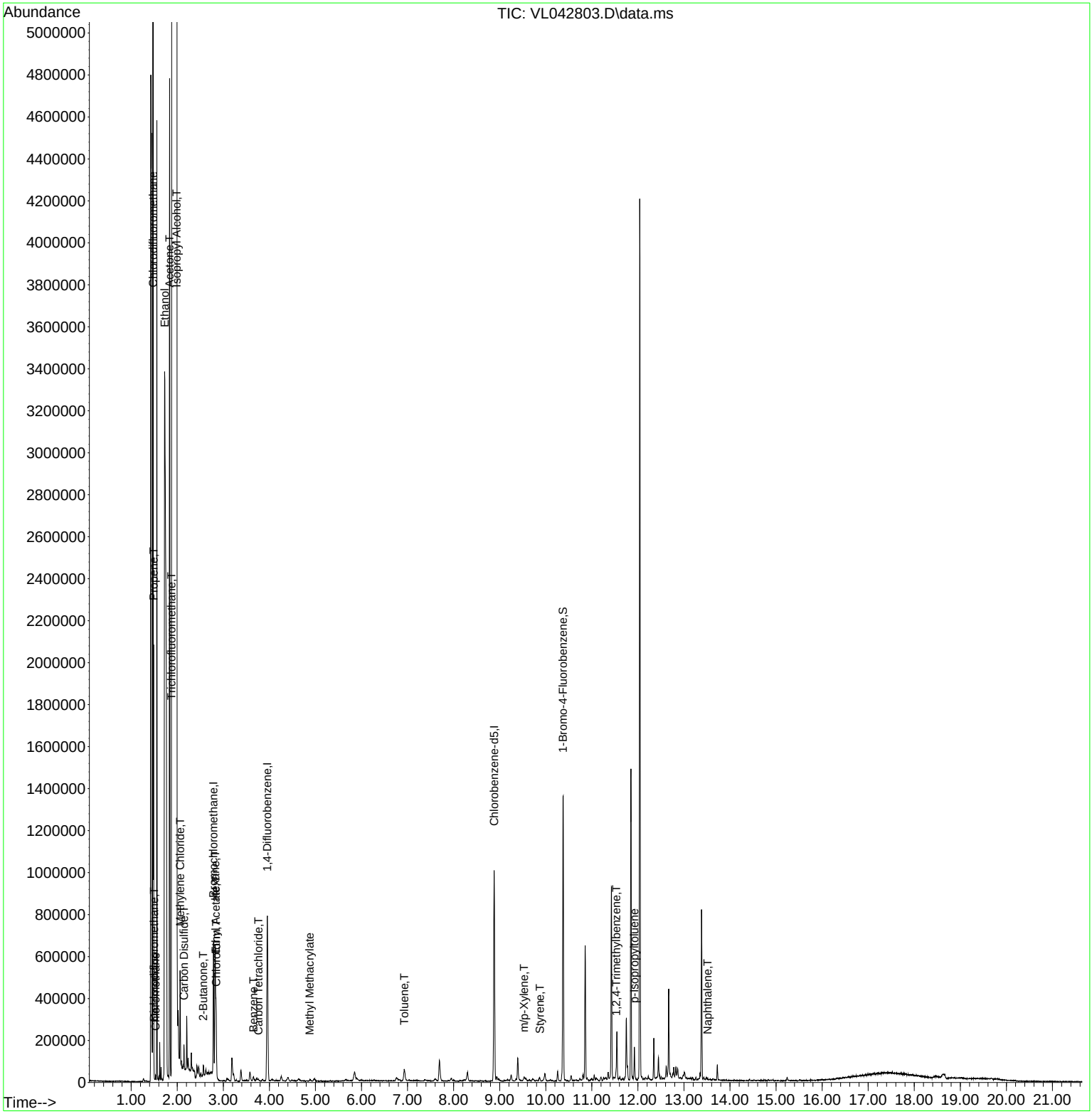
(#) = qualifier out of range (m) = manual integration (+) = signals summed

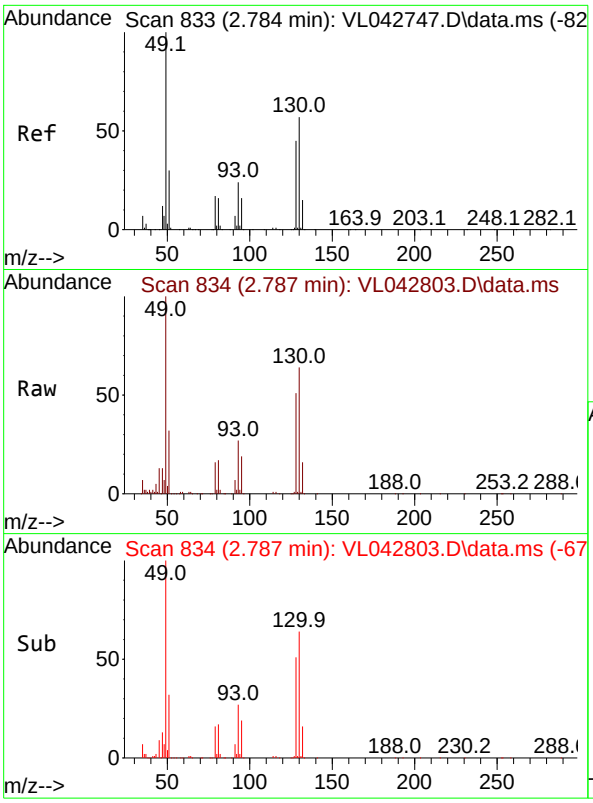
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042803.D
Acq On : 04 Aug 2025 14:03
Operator : SY/MD
Sample : Q2750-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:05:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

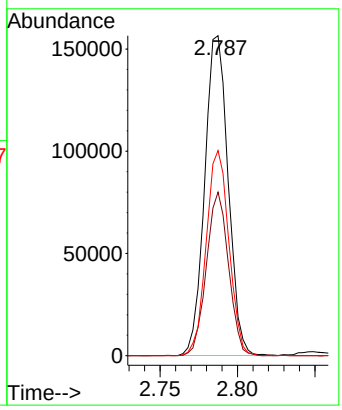




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 49 Resp: 16479

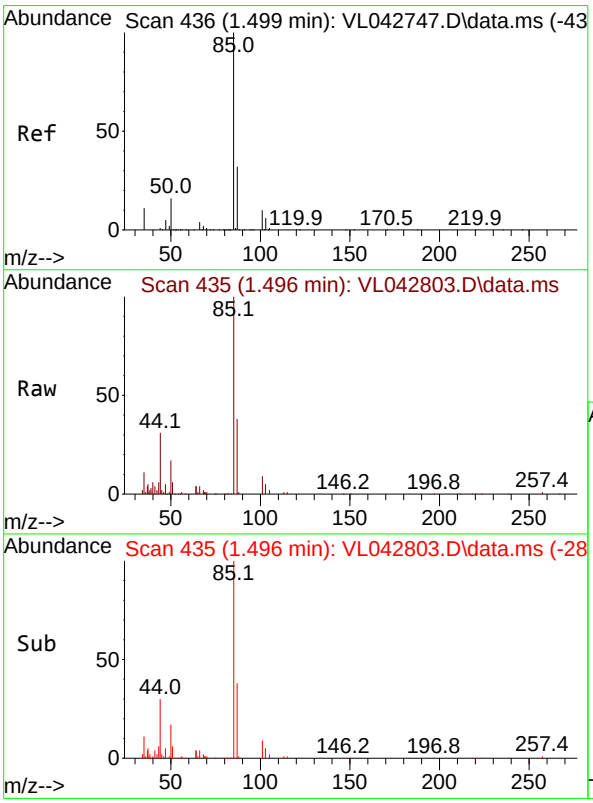
Ion	Ratio	Lower	Upper
49	100		
128	48.2	23.6	71.0
130	61.9	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

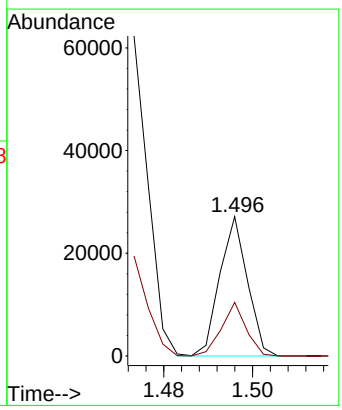
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

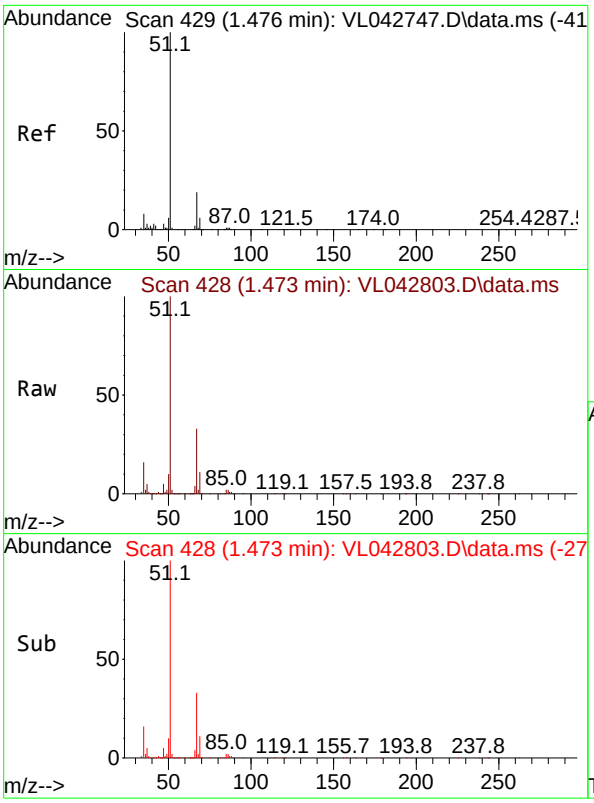


#2
Dichlorodifluoromethane
Concen: 0.539 ppbv m
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 85 Resp: 11738

Ion	Ratio	Lower	Upper
85	100		
87	38.5	25.4	38.2#

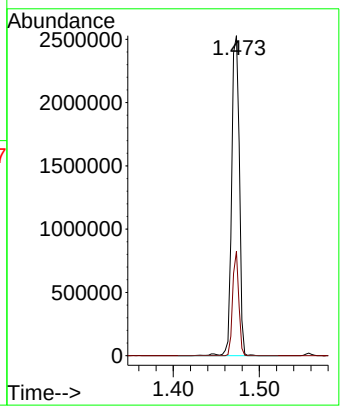




#3
Chlorodifluoromethane
Concen: 55.117 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 51 Resp: 156437

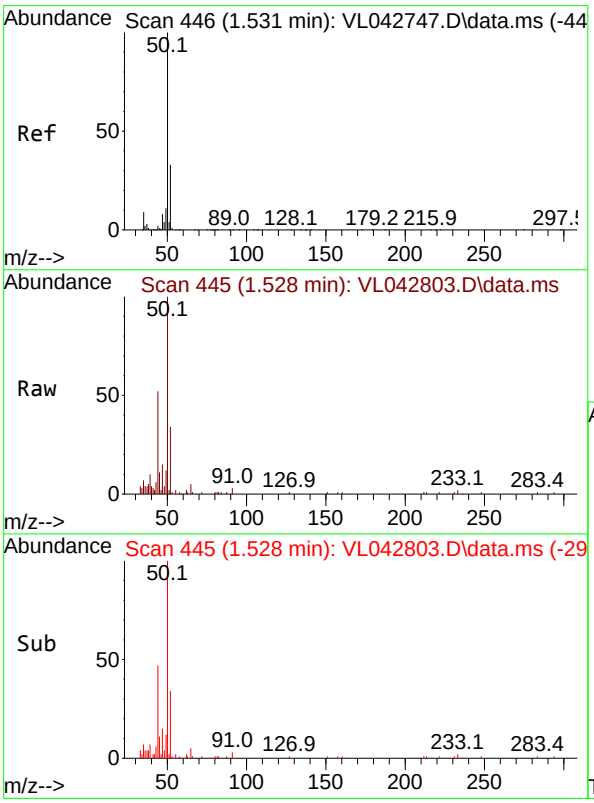
Ion	Ratio	Lower	Upper
51	100		
67	25.9	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

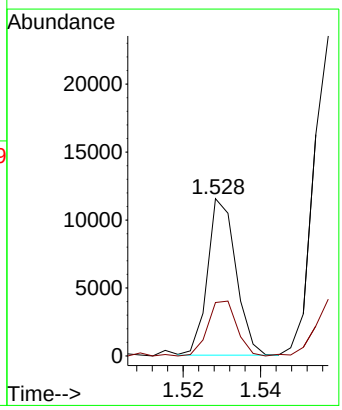
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

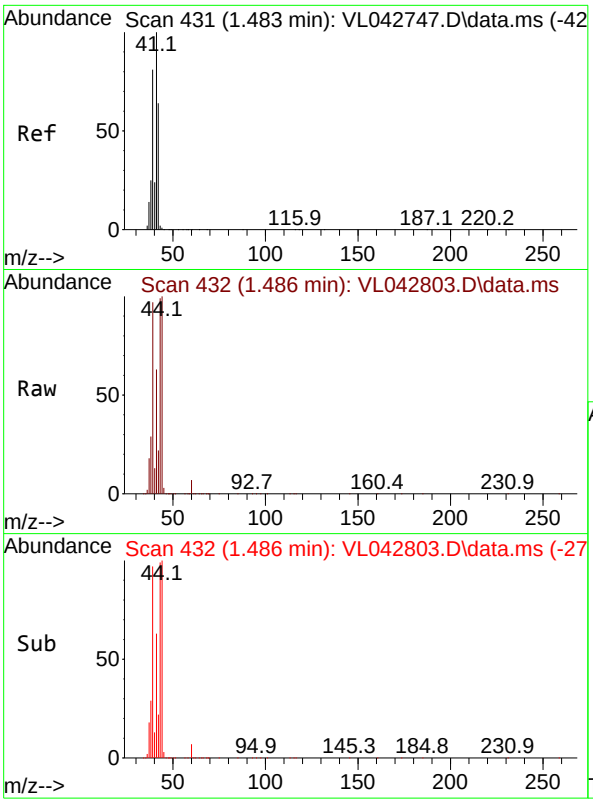


#4
Chloromethane
Concen: 0.665 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 50 Resp: 5862

Ion	Ratio	Lower	Upper
50	100		
52	34.3	26.6	40.0

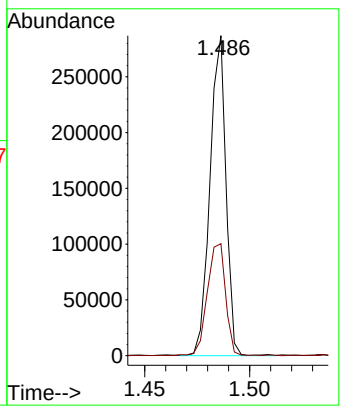




#9
Propene
Concen: 14.717 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 41 Resp: 15181

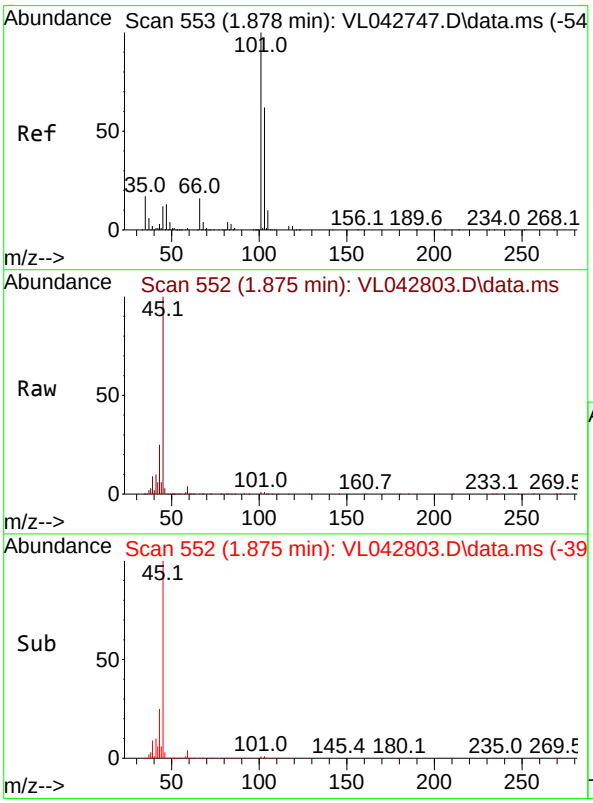
Ion	Ratio	Lower	Upper
41	100		
42	232.1	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

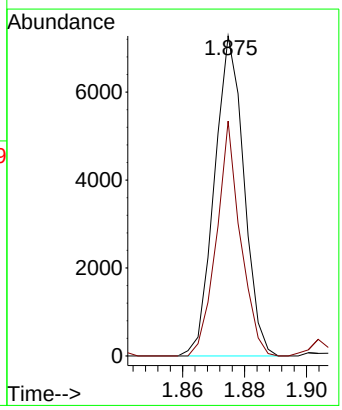
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

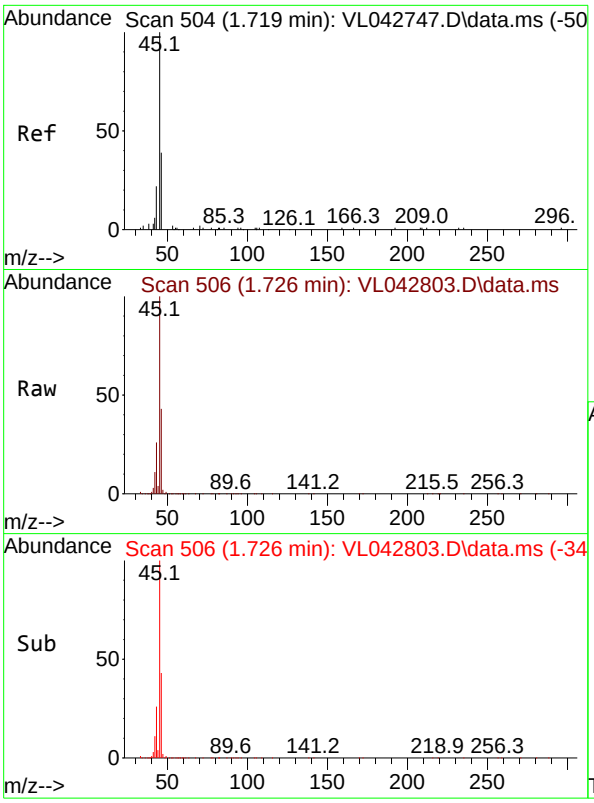


#11
Trichlorofluoromethane
Concen: 0.214 ppbv
RT: 1.875 min Scan# 552
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:101 Resp: 4804

Ion	Ratio	Lower	Upper
101	100		
103	73.4	49.6	74.4

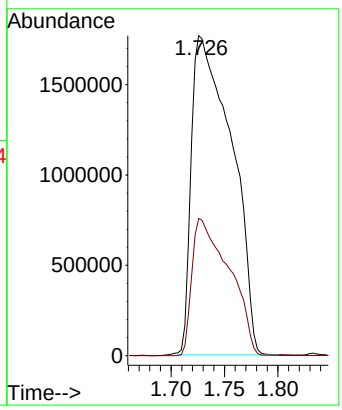




#13
Ethanol
Concen: 6156.946 ppbv
RT: 1.726 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 45 Resp: 462542

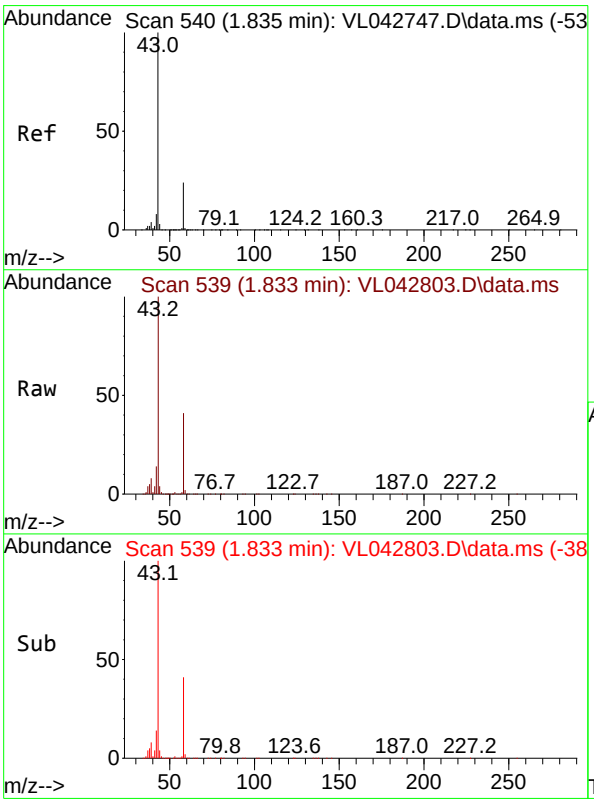
Ion	Ratio	Lower	Upper
45	100		
46	40.0	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

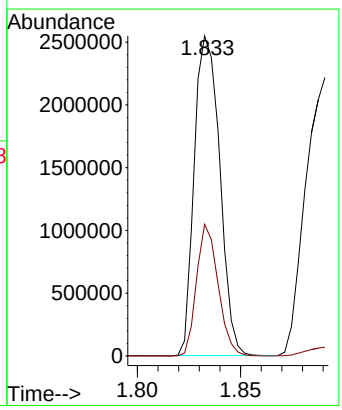
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

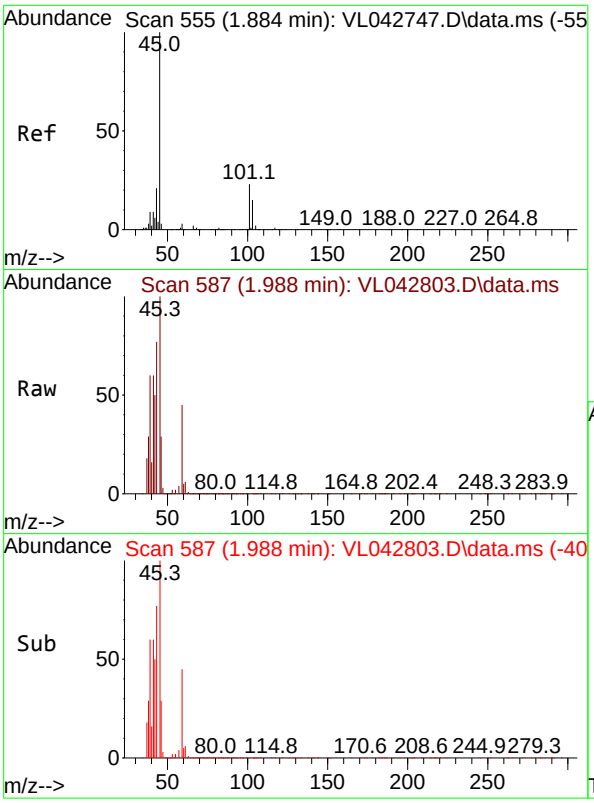


#15
Acetone
Concen: 95.974 ppbv
RT: 1.833 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 43 Resp: 2183939

Ion	Ratio	Lower	Upper
43	100		
58	34.9	19.8	29.8#

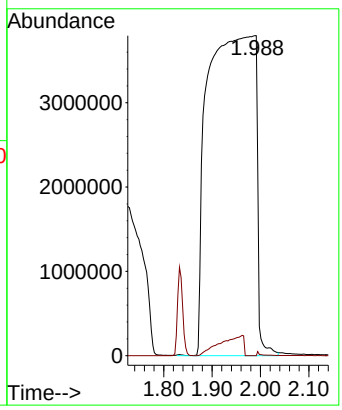




#19
Isopropyl Alcohol
Concen: 2154.676 ppbv m
RT: 1.988 min Scan# 5
Delta R.T. 0.104 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 45 Resp:2605547

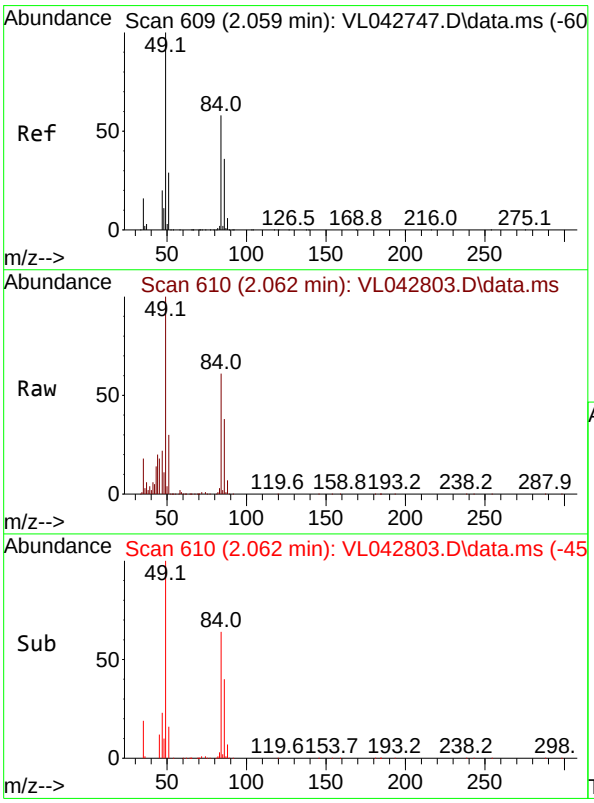
Ion	Ratio	Lower	Upper
45	100		
58	3.1	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

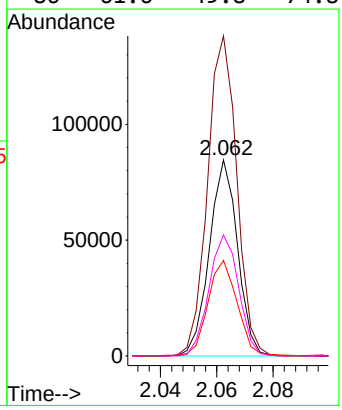
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

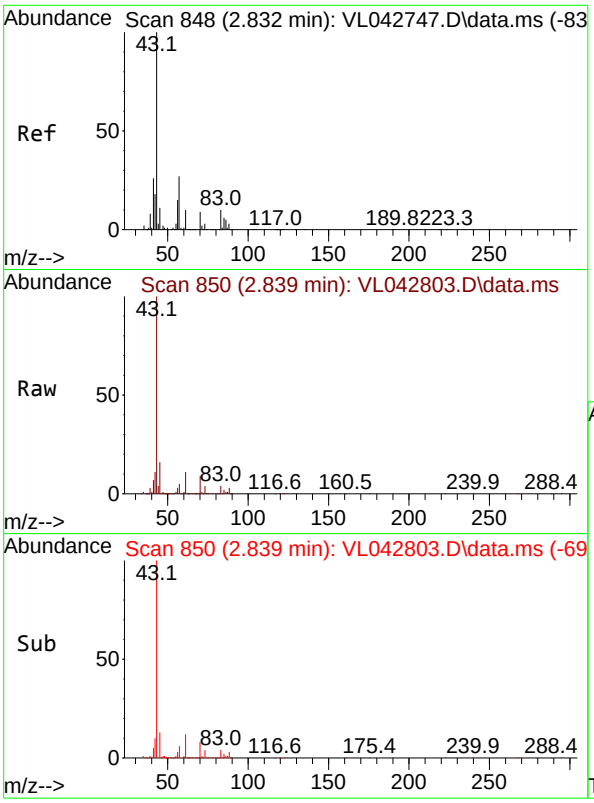


#20
Methylene Chloride
Concen: 8.214 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 84 Resp: 58902

Ion	Ratio	Lower	Upper
84	100		
49	162.9	138.6	208.0
51	48.6	40.6	61.0
86	61.6	49.8	74.8

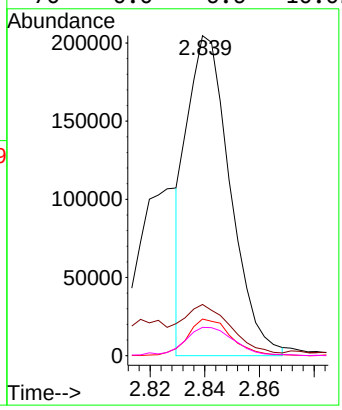




#25
Ethyl Acetate
Concen: 4.471 ppbv m
RT: 2.839 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 43 Resp: 22520

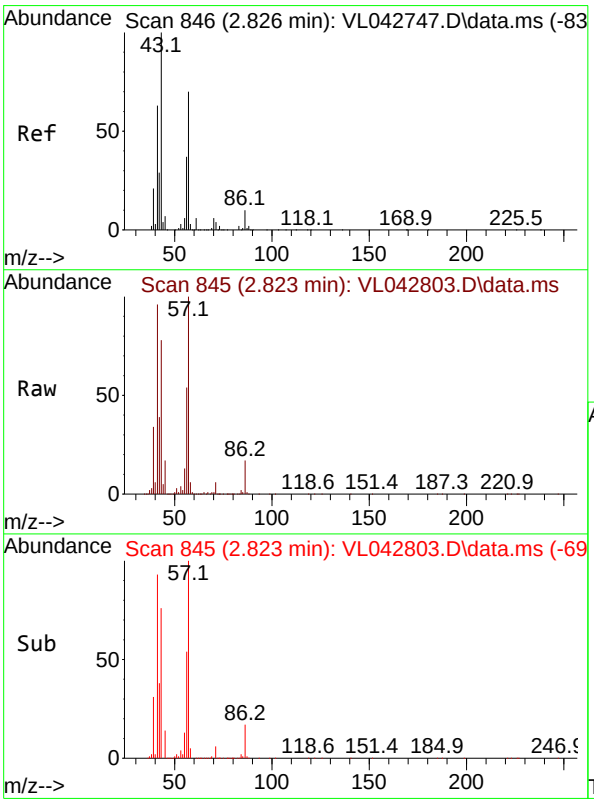
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	6.7	10.1#
70	0.0	6.6	10.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

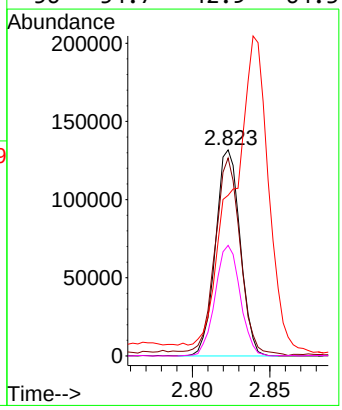
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

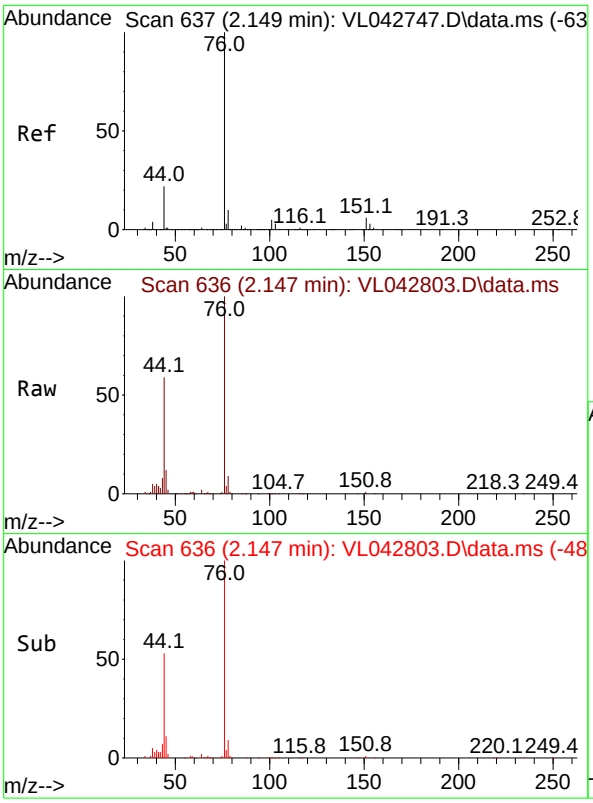


#26
Hexane
Concen: 6.600 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 57 Resp: 145822

Ion	Ratio	Lower	Upper
57	100		
41	99.8	75.4	113.2
43	237.0	185.0	277.6
56	54.7	42.9	64.3





#27
Carbon Disulfide
Concen: 3.175 ppbv
RT: 2.147 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

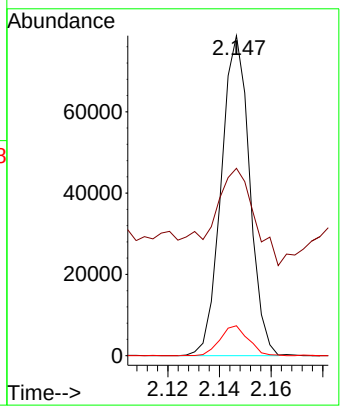
Tgt Ion: 76 Resp: 6005

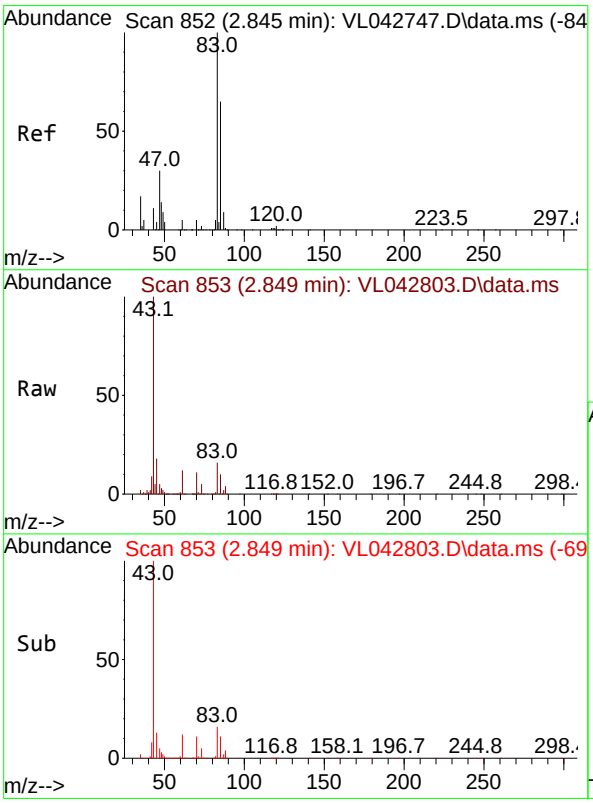
Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.6	9.9	14.9#

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

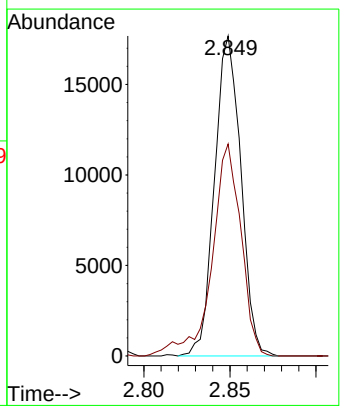


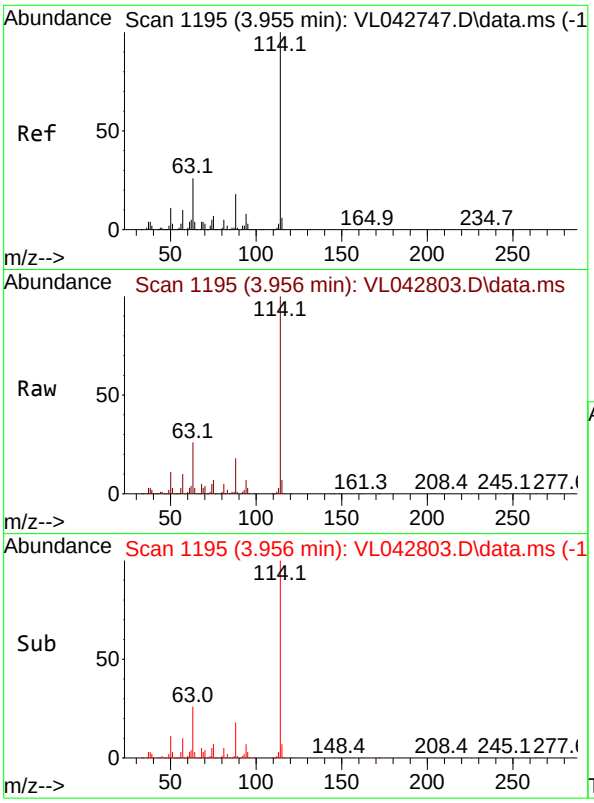


#29
Chloroform
Concen: 0.551 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 83 Resp: 18805

Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.2	78.2

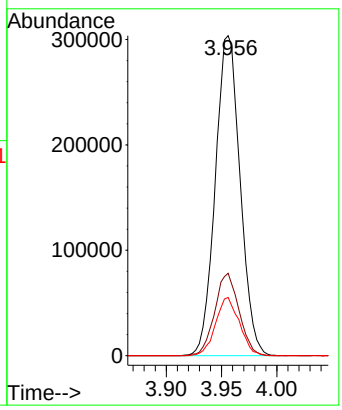




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:114 Resp: 47491

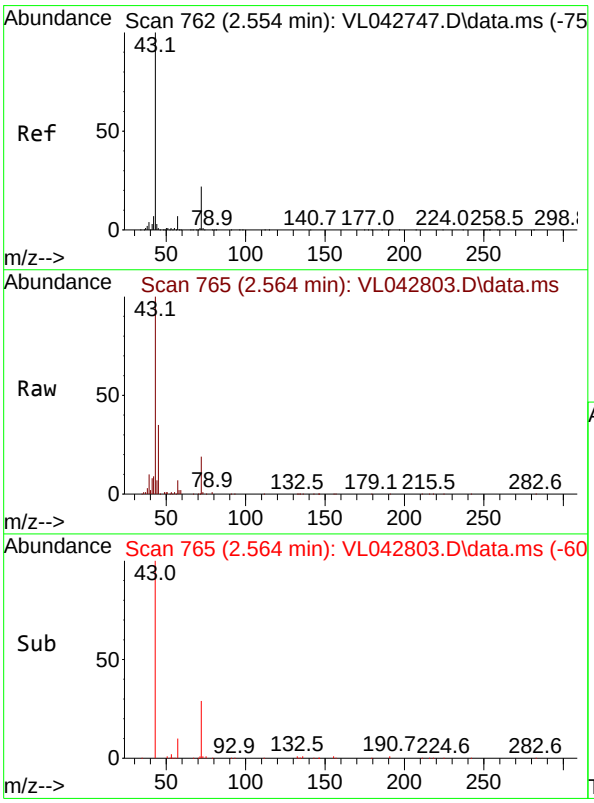
Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.5	30.7
88	17.4	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

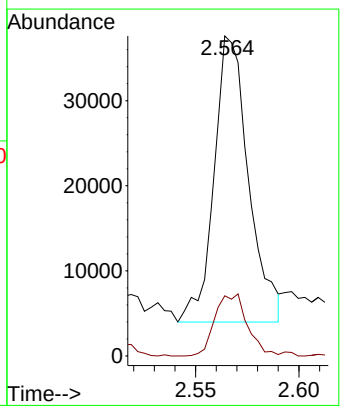
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

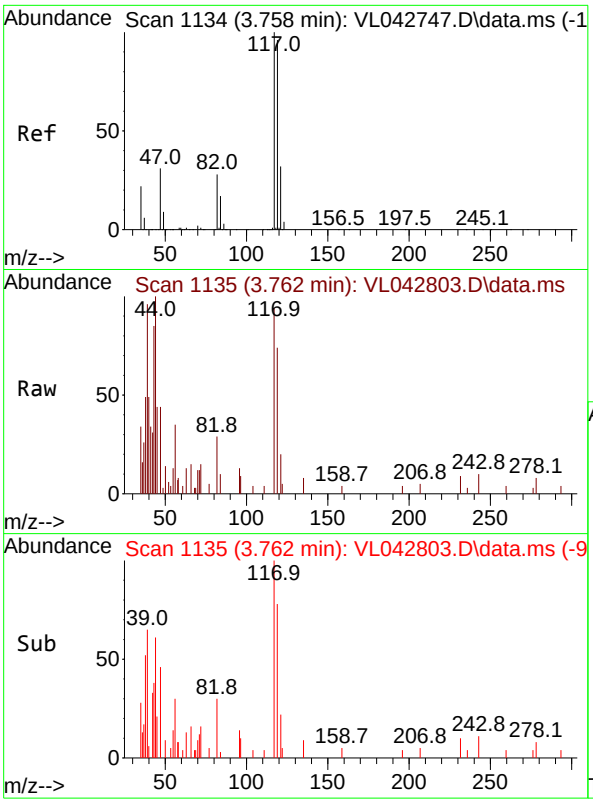


#34
2-Butanone
Concen: 1.163 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 43 Resp: 39111

Ion	Ratio	Lower	Upper
43	100		
72	21.1	17.4	26.0

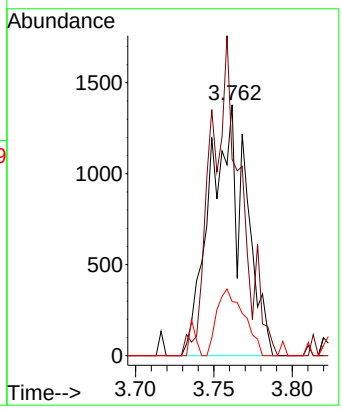




#35
Carbon Tetrachloride
Concen: 0.062 ppbv m
RT: 3.762 min Scan# 1
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:117 Resp: 220

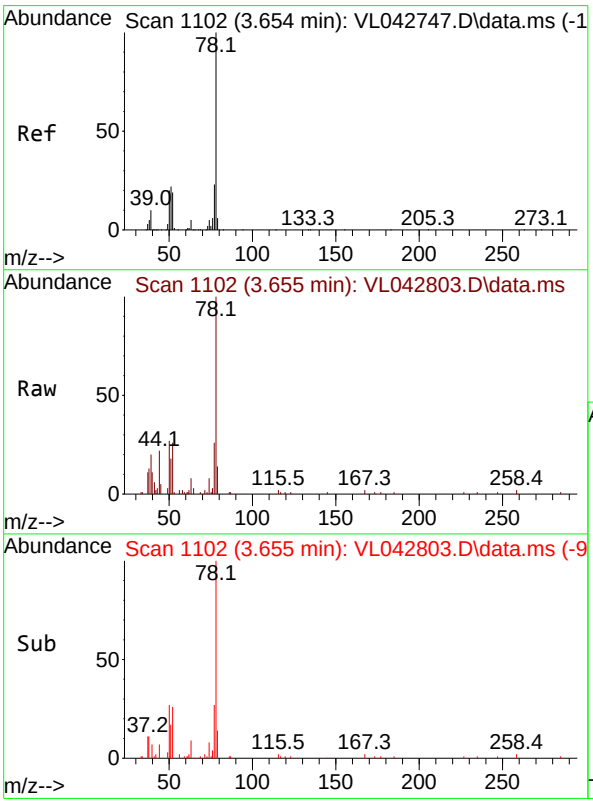
Ion	Ratio	Lower	Upper
117	100		
119	78.2	77.1	115.7
121	21.5	25.5	38.3#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

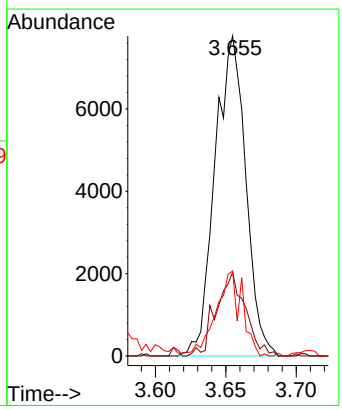
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

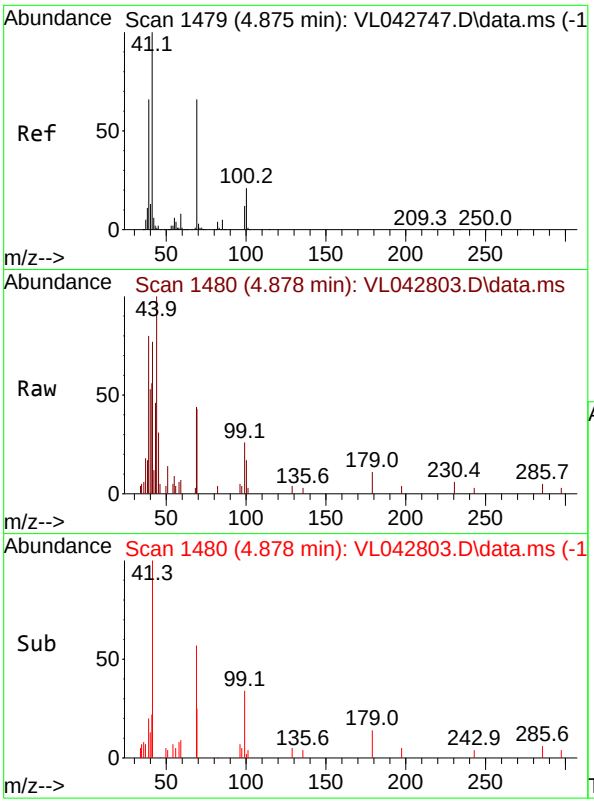


#36
Benzene
Concen: 0.262 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 78 Resp: 11806

Ion	Ratio	Lower	Upper
78	100		
77	26.3	18.5	27.7
50	25.7	16.2	24.2#

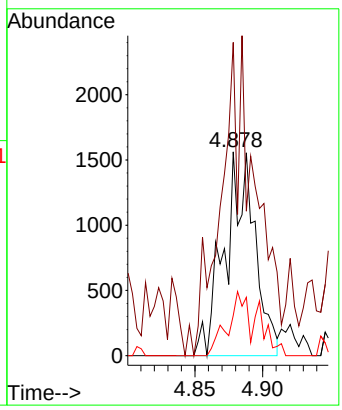




#43
Methyl Methacrylate
Concen: 0.151 ppbv m
RT: 4.878 min Scan# 14
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 69 Resp: 241

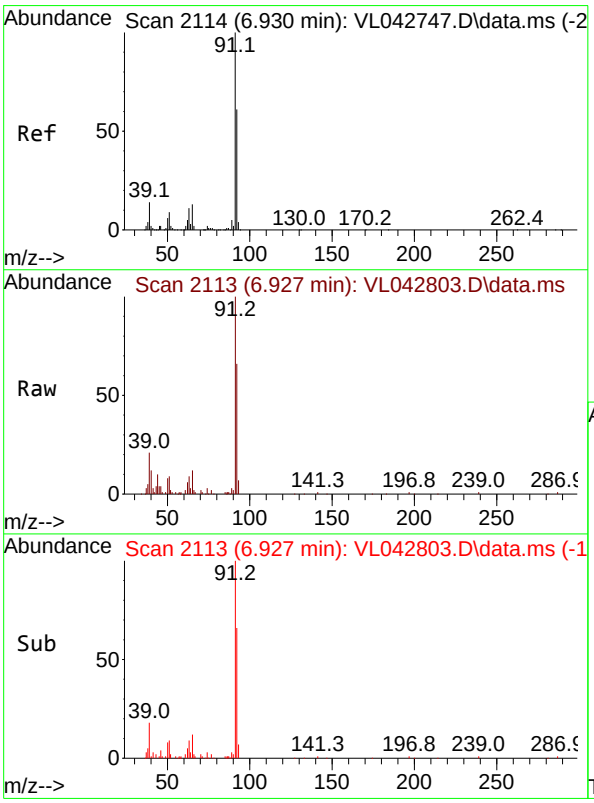
Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	0.0	28.6	42.8#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

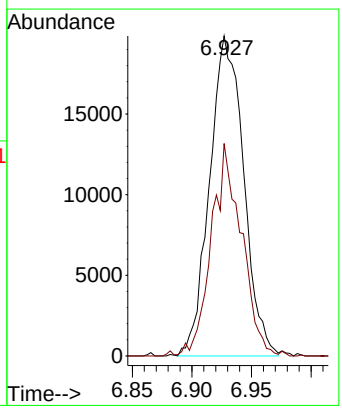
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

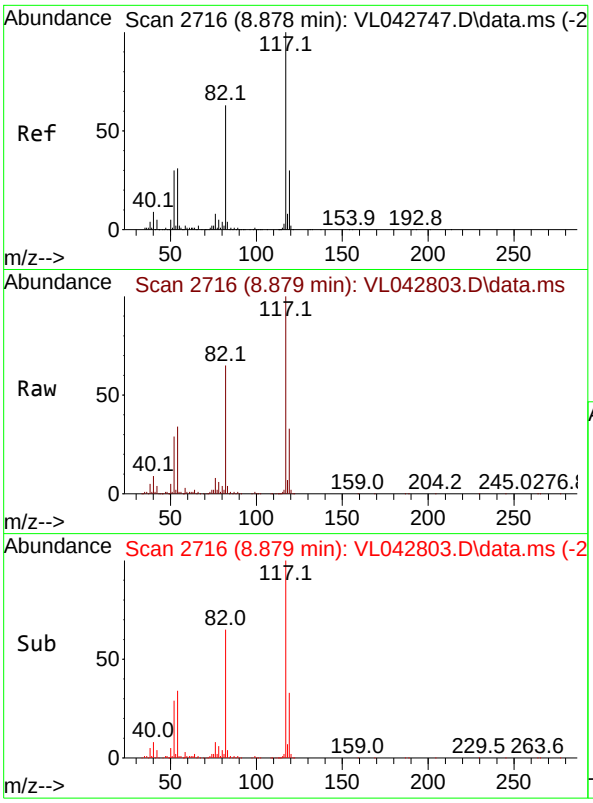


#53
Toluene
Concen: 0.816 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 91 Resp: 39418

Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.0	72.0

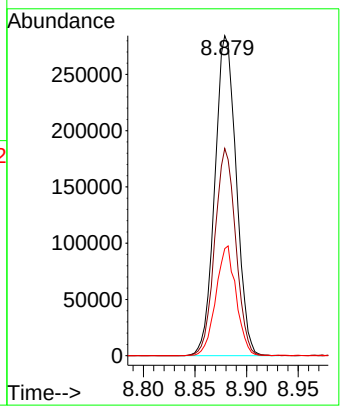




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:117 Resp: 41066

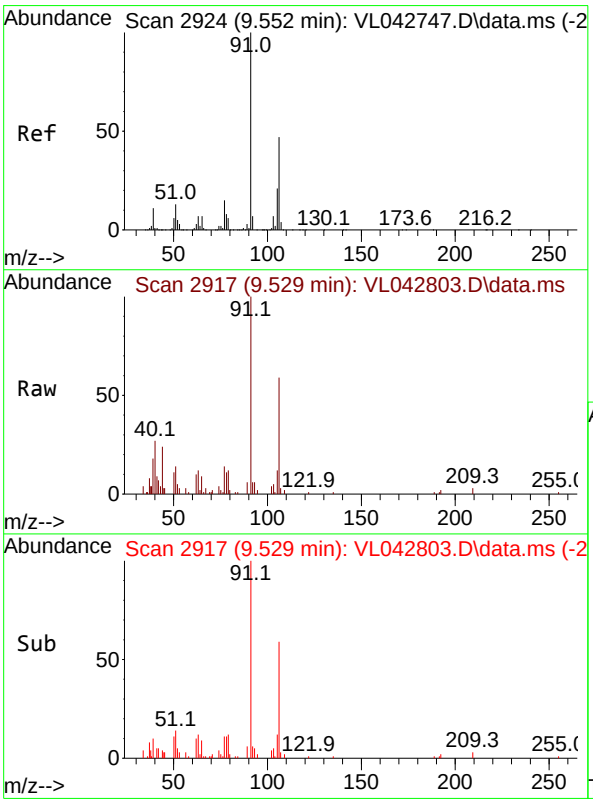
Ion	Ratio	Lower	Upper
117	100		
82	63.4	53.3	79.9
119	32.8	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

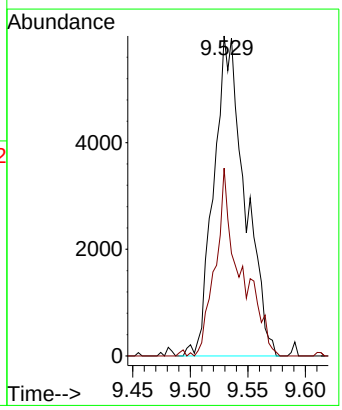
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

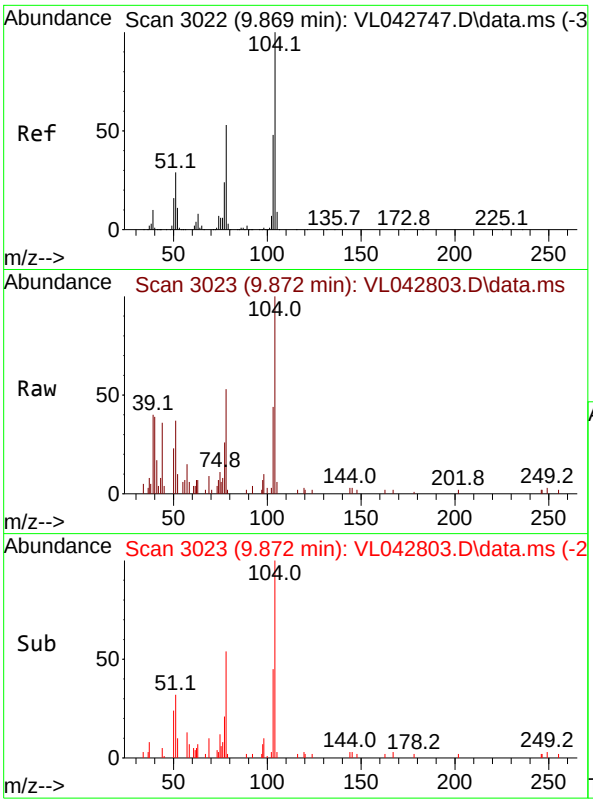


#59
m/p-Xylene
Concen: 0.218 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.022 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 91 Resp: 11294

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

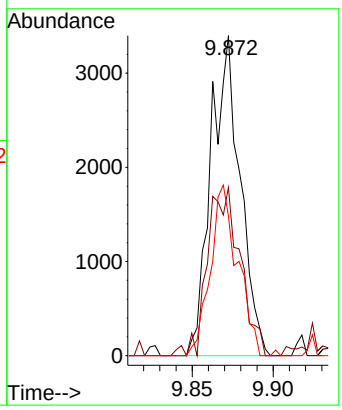




#61
Styrene
Concen: 0.196 ppbv m
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:104 Resp: 427

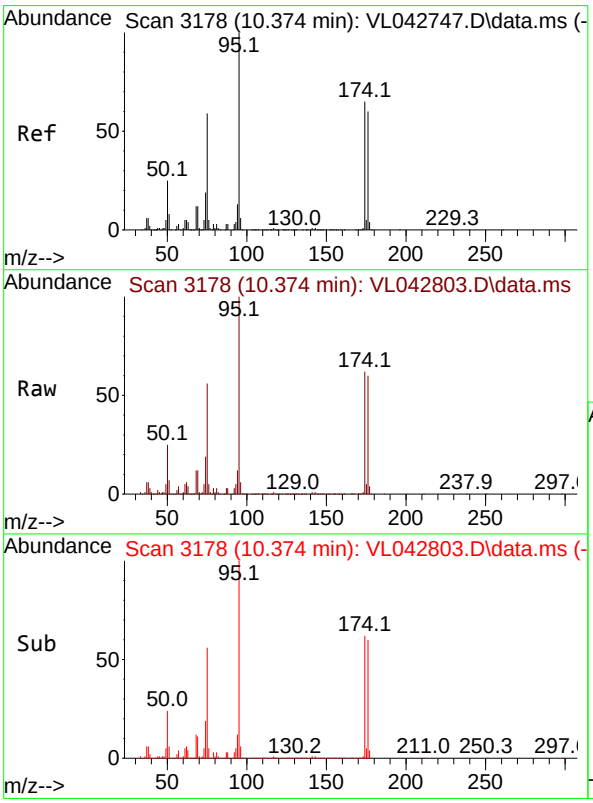
Ion	Ratio	Lower	Upper
104	100		
78	58.5	41.5	62.3
103	49.9	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

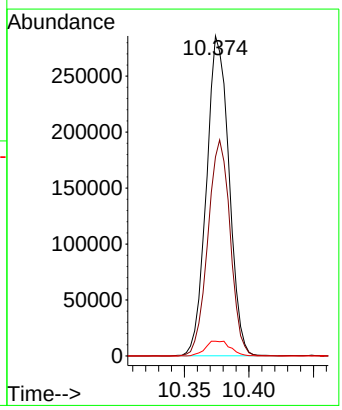
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

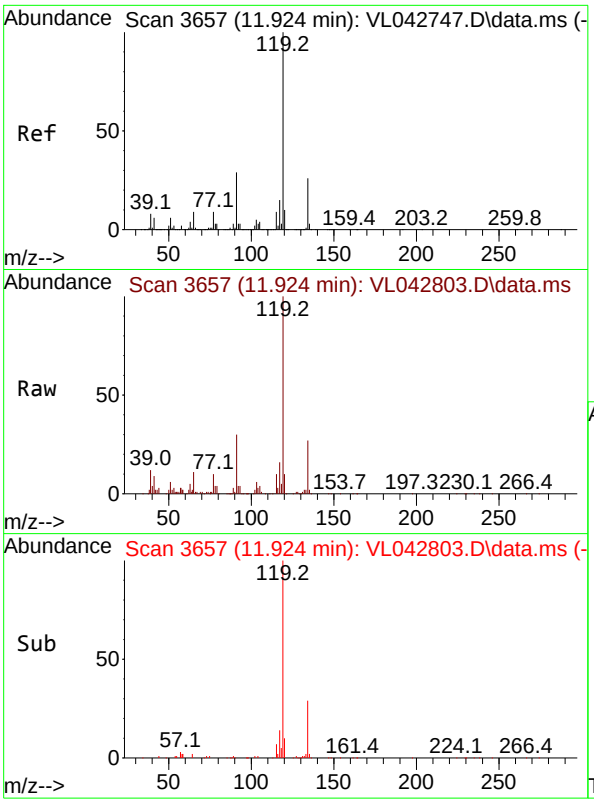


#68
1-Bromo-4-Fluorobenzene
Concen: 10.645 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 95 Resp: 346200

Ion	Ratio	Lower	Upper
95	100		
174	66.9	53.8	80.6
175	5.2	4.0	6.0

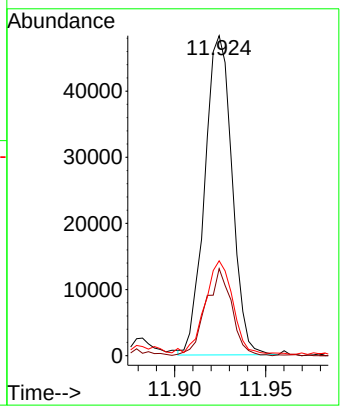




#69
p-Isopropyltoluene
Concen: 0.639 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:119 Resp: 5030

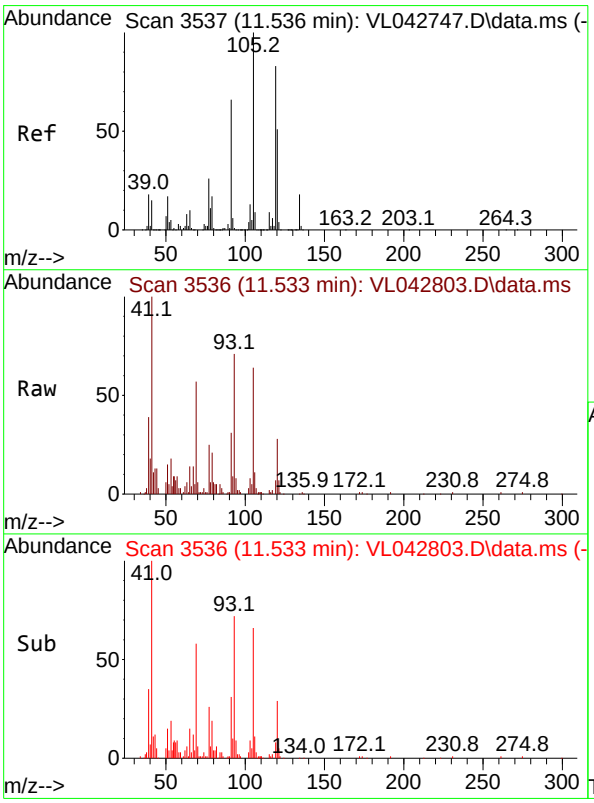
Ion	Ratio	Lower	Upper
119	100		
134	26.2	20.6	31.0
91	29.3	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

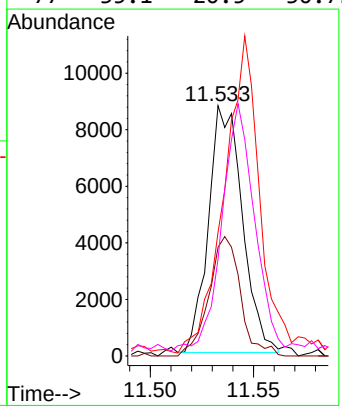
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

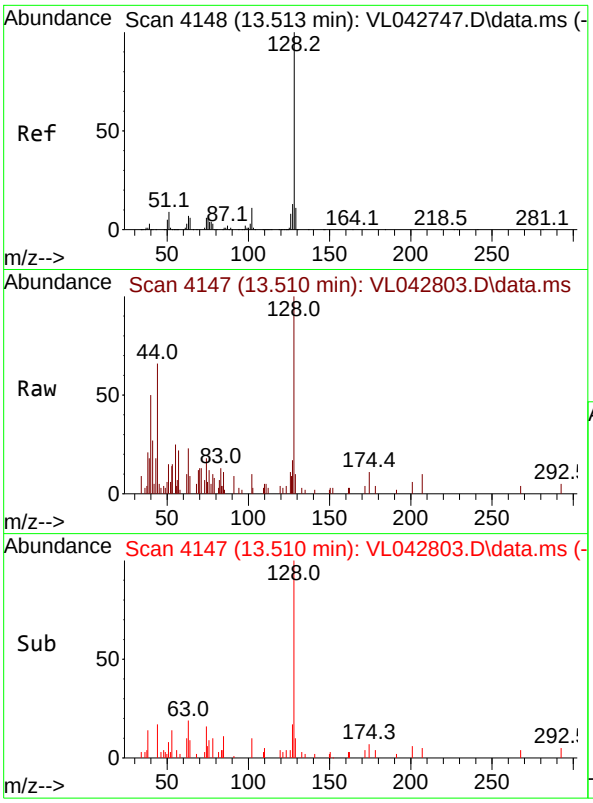


#74
1,2,4-Trimethylbenzene
Concen: 0.179 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:105 Resp: 9966

Ion	Ratio	Lower	Upper
105	100		
120	44.0	40.8	61.2
91	49.0	53.0	79.4#
77	35.1	20.5	30.7#

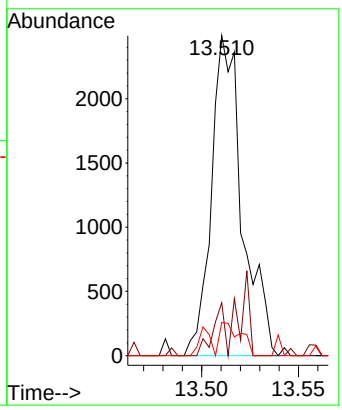




#79
Naphthalene
Concen: 0.479 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:128 Resp: 276

Ion	Ratio	Lower	Upper
128	100		
127	16.5	10.5	15.7#
129	10.3	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042803.D
Acq On : 04 Aug 2025 14:03
Operator : SY/MD
Sample : Q2750-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042803.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.425	409	413	416	rBV	4793955	4948046	11.08%	3.212%
2	1.438	416	417	423	rVV2	4515586	1945262	4.35%	1.263%
3	1.473	423	428	430	rVV	5063960	2978453	6.67%	1.933%
4	1.486	430	432	440	rVB	2073019	923439	2.07%	0.599%
5	1.557	450	454	459	rBV	4568148	2370546	5.31%	1.539%
6	1.726	500	506	528	rVB	3357518	8493945	19.02%	5.514%
7	1.833	535	539	548	rBV	4752567	3814593	8.54%	2.476%
8	1.926	550	568	569	rVV6	17908968	44667897	100.00%	28.996%
9	1.965	569	580	581	rVV2	18815912	42026958	94.09%	27.282%
10	1.985	581	586	591	rVV2	19340474	26993682	60.43%	17.523%
11	2.787	825	834	839	rBV	628054	660522	1.48%	0.429%
12	2.823	839	845	865	rVB2	643911	1131115	2.53%	0.734%
13	3.956	1181	1195	1207	rBV	786441	1238300	2.77%	0.804%
14	8.879	2704	2716	2728	rBV	1002821	1459471	3.27%	0.947%
15	10.377	3163	3179	3190	rBV	1358048	1732248	3.88%	1.124%
16	10.856	3317	3327	3337	rVB	637170	747751	1.67%	0.485%
17	11.423	3487	3502	3513	rVB	915818	1050918	2.35%	0.682%
18	11.850	3624	3634	3642	rBV	1483268	1608325	3.60%	1.044%
19	12.041	3683	3693	3705	rBV	4190543	4418887	9.89%	2.869%
20	13.381	4101	4107	4116	rVB	809486	837908	1.88%	0.544%

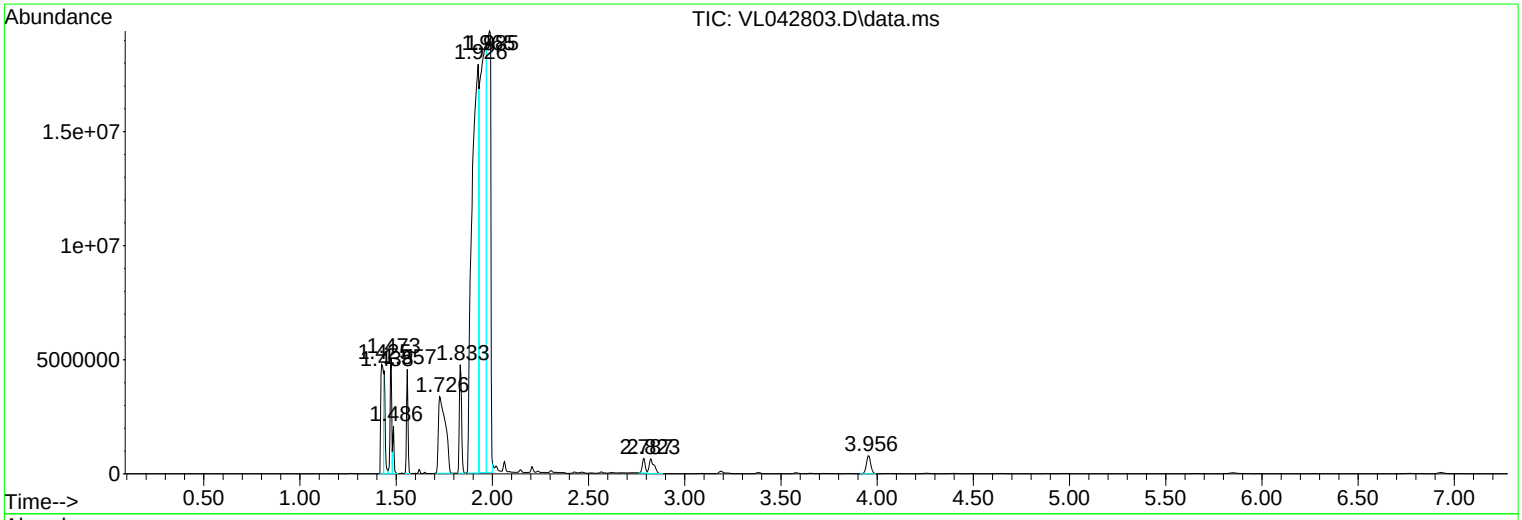
Sum of corrected areas: 154048266

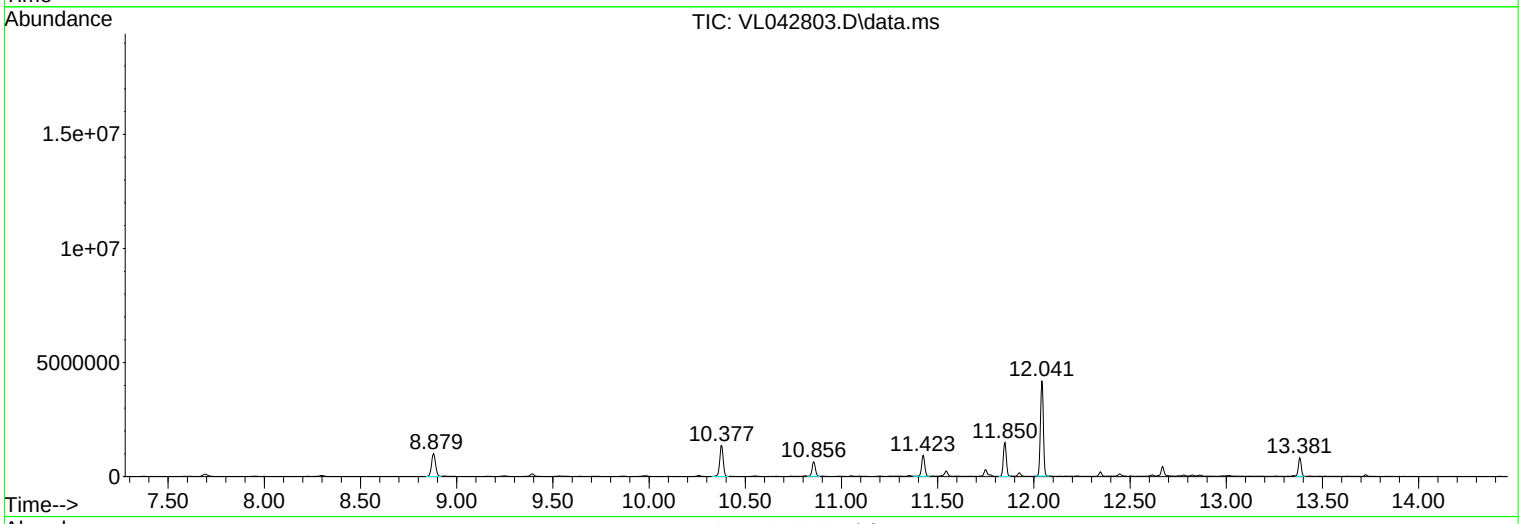
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042803.D
Acq On : 04 Aug 2025 14:03
Operator : SY/MD
Sample : Q2750-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

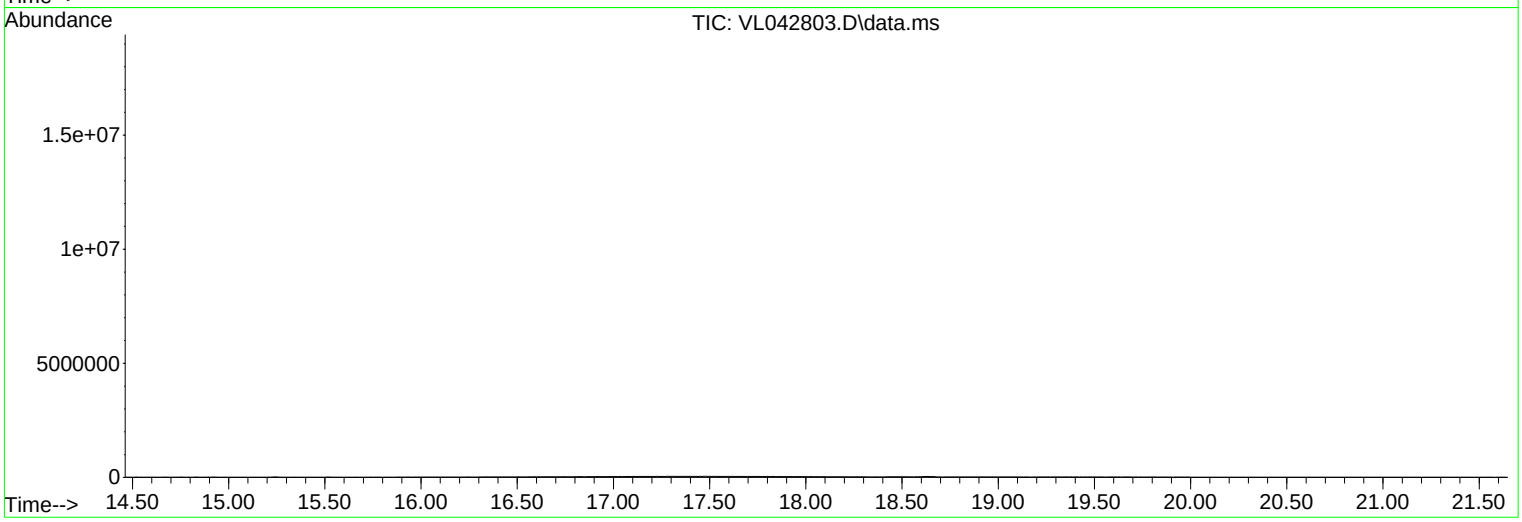
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042803.D
Acq On : 04 Aug 2025 14:03
Operator : SY/MD
Sample : Q2750-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

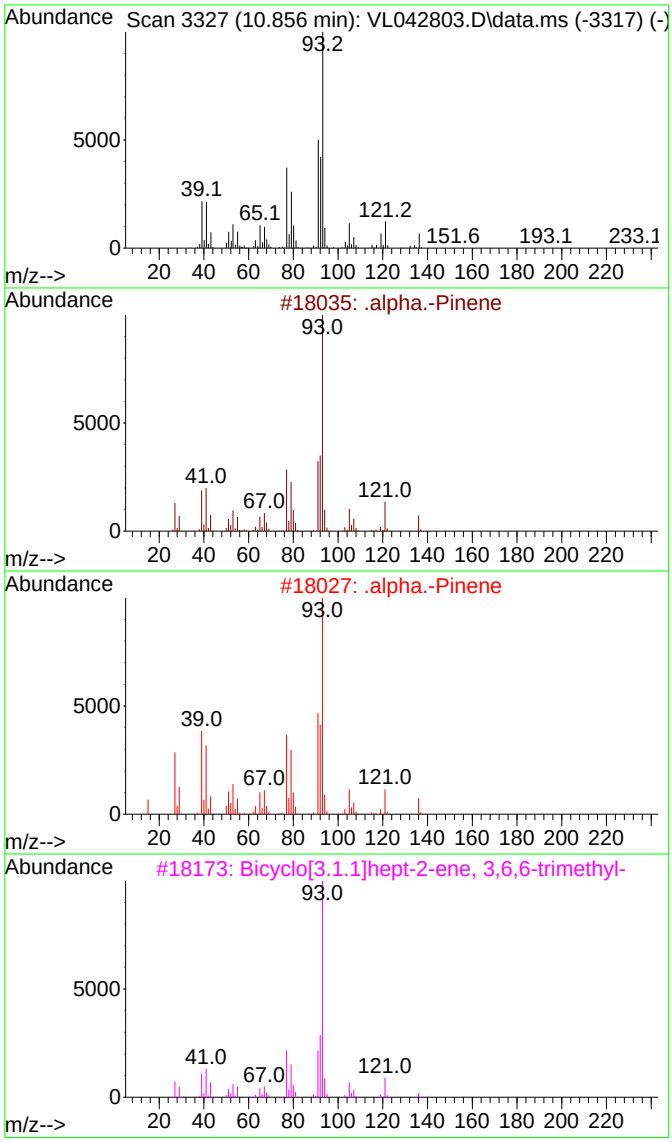
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

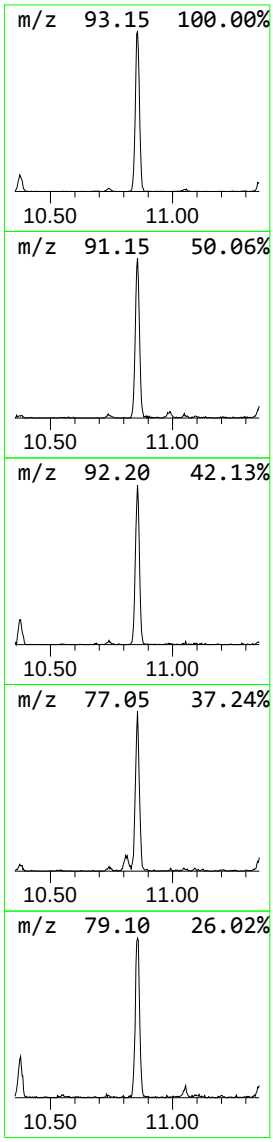
****

Peak Number 2 .alpha.-Pinene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.856	5.12 ppbv	747751	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Pinene	136	C10H16	000080-56-8	97
2	.alpha.-Pinene	136	C10H16	000080-56-8	95
3	Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	91
4	.alpha.-Pinene	136	C10H16	000080-56-8	91
5	(1S)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-26-4	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042803.D
Acq On : 04 Aug 2025 14:03
Operator : SY/MD
Sample : Q2750-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

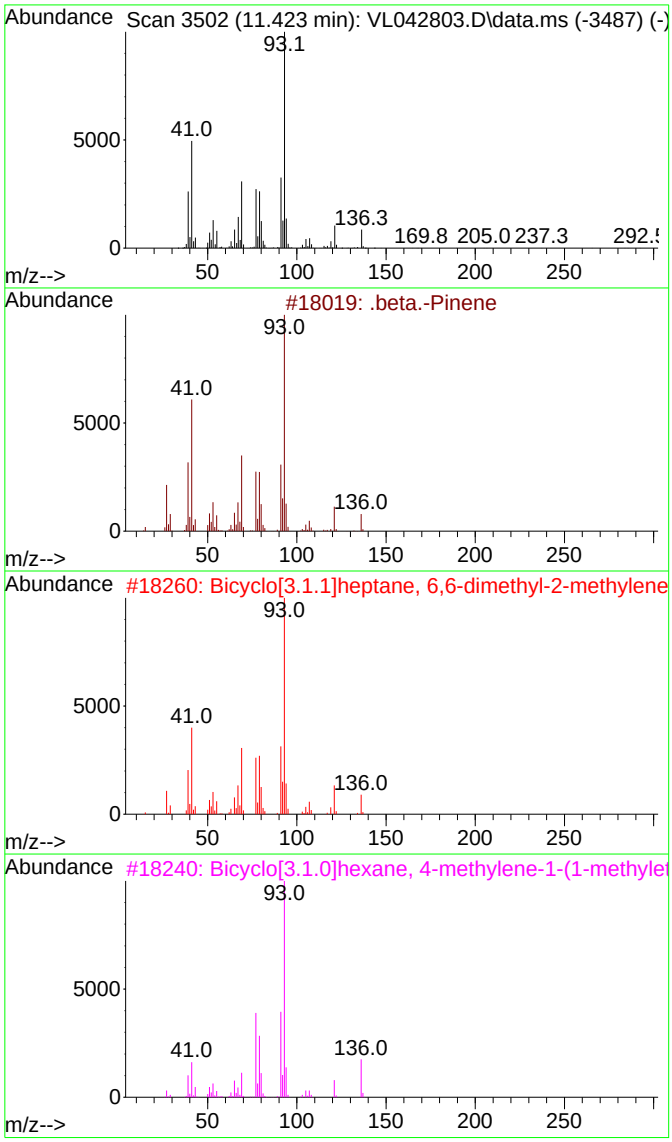
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

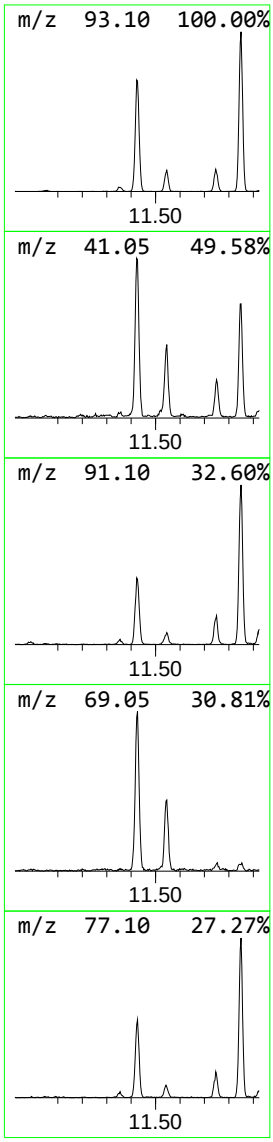
****

Peak Number 3 .beta.-Pinene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.423	7.20 ppbv	1050920	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Pinene	136	C10H16	000127-91-3	96
2	Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	96
3	Bicyclo[3.1.0]hexane, 4-methylen...	136	C10H16	003387-41-5	94
4	.beta.-Pinene	136	C10H16	000127-91-3	94
5	Cyclohexene, 4-methylene-1-(1-me...	136	C10H16	000099-84-3	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042803.D
Acq On : 04 Aug 2025 14:03
Operator : SY/MD
Sample : Q2750-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

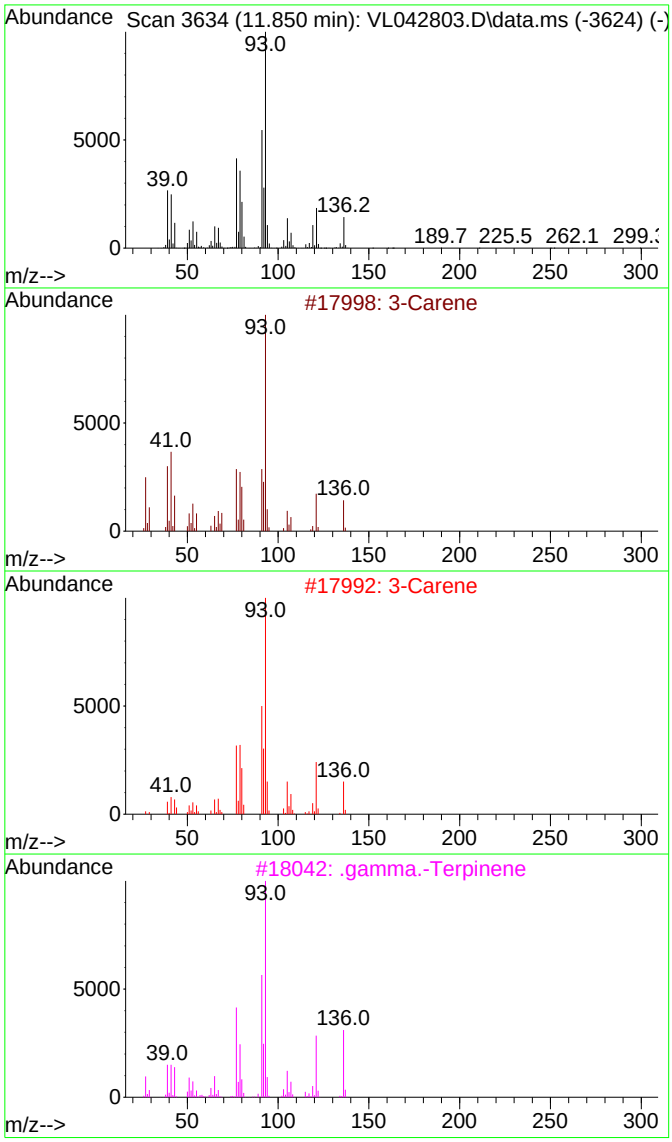
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

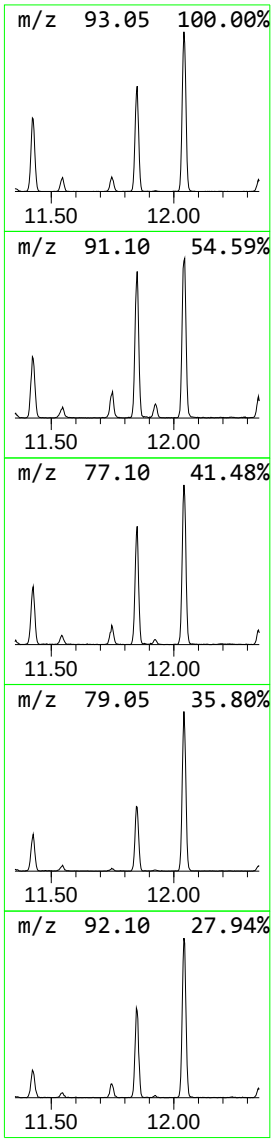
****

Peak Number 4 3-Carene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.850	11.02 ppbv	1608330	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Carene	136	C10H16	013466-78-9	95
2	3-Carene	136	C10H16	013466-78-9	93
3	.gamma.-Terpinene	136	C10H16	000099-85-4	93
4	.gamma.-Terpinene	136	C10H16	000099-85-4	93
5	Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042803.D
Acq On : 04 Aug 2025 14:03
Operator : SY/MD
Sample : Q2750-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

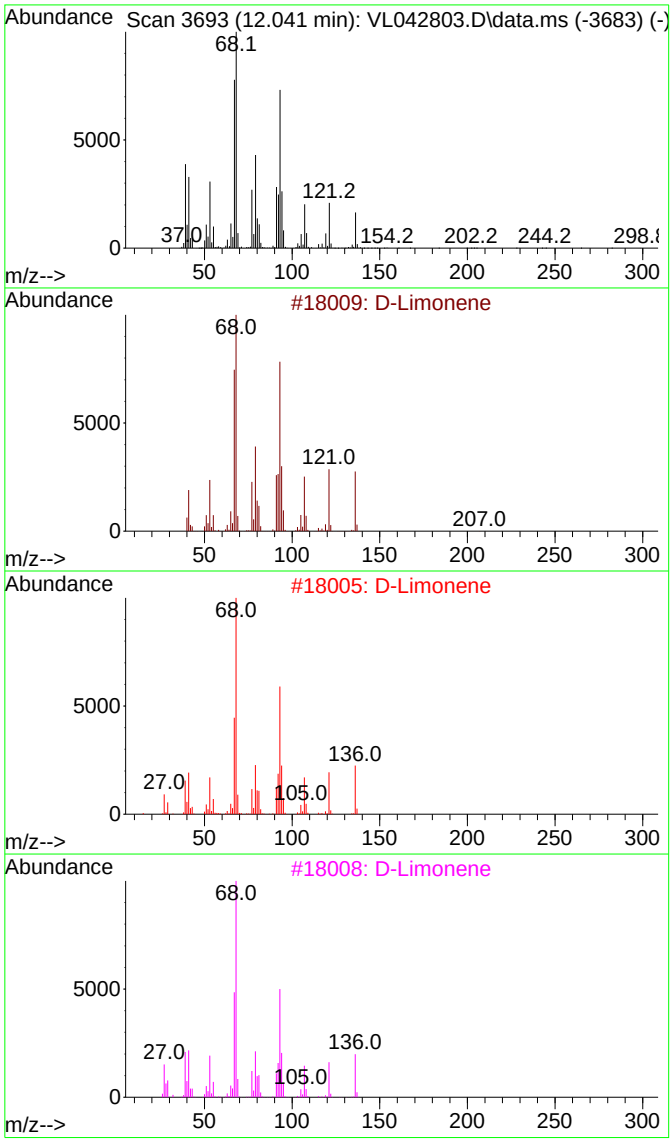
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

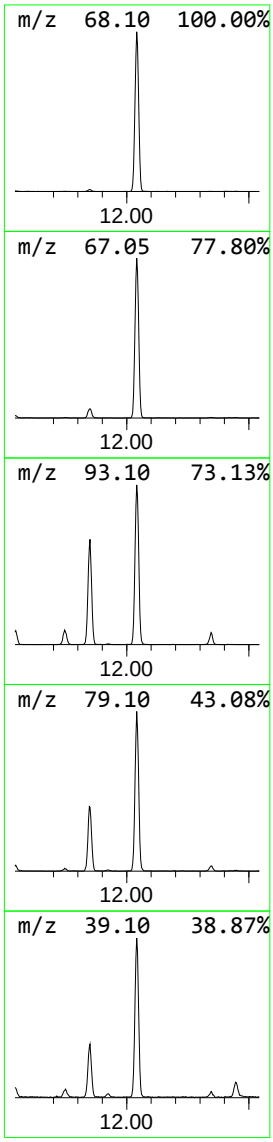
****

Peak Number 5 D-Limonene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.041	30.28 ppbv	4418890	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	98
2	D-Limonene	136	C10H16	005989-27-5	93
3	D-Limonene	136	C10H16	005989-27-5	93
4	Limonene	136	C10H16	000138-86-3	86
5	D-Limonene	136	C10H16	005989-27-5	76





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042803.D
Acq On : 04 Aug 2025 14:03
Operator : SY/MD
Sample : Q2750-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

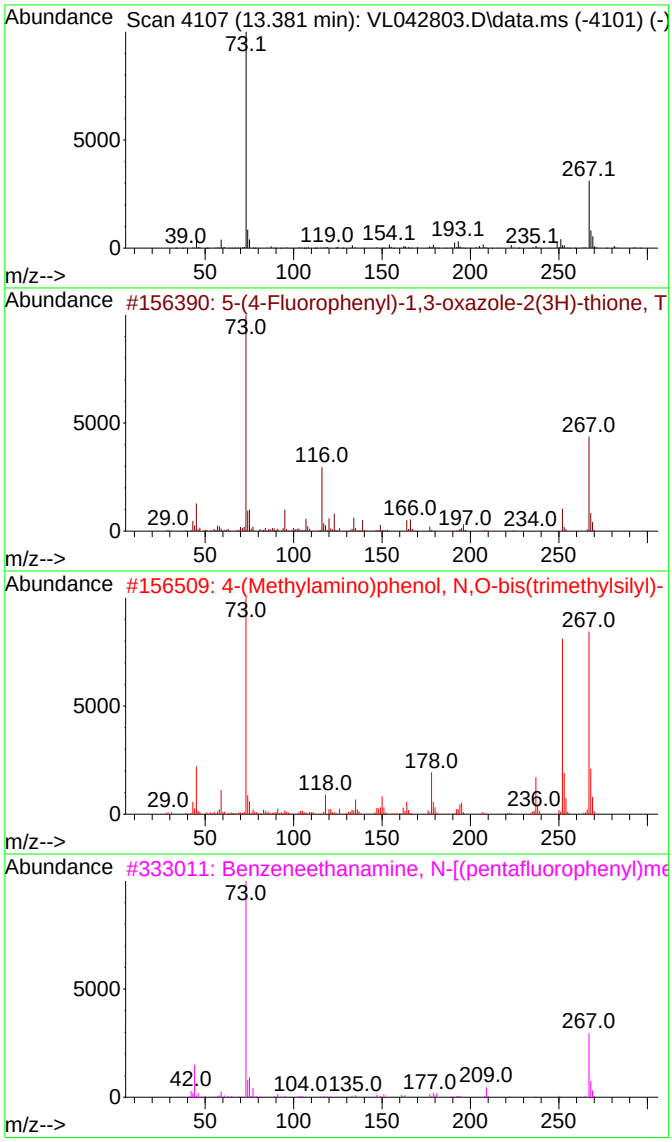
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

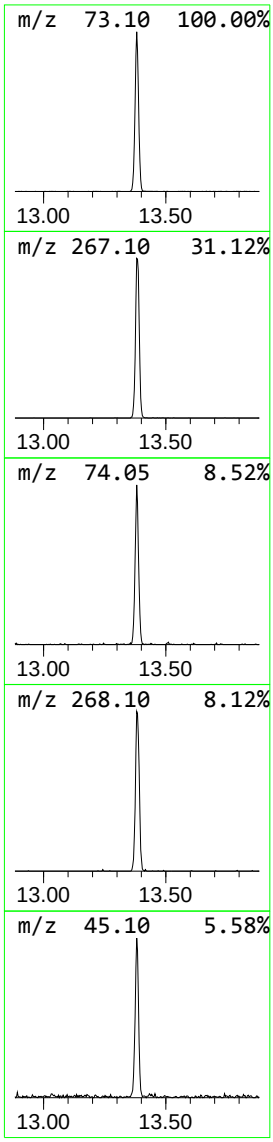
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 5-(4-Fluorophenyl)-1,3-oxaz... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.381	5.74 ppbv	837908	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	53
2	4-(Methylamino)phenol, N,O-bis(t...	267	C13H25NOSi2	1000471-13-0	45
3	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	39
4	2-[(Trimethylsilyl)oxy]-2-{4-[(t...	297	C14H27NO2Si2	1000473-27-9	38
5	Benzeneethanamine, N-methyl-.bet...	311	C15H29NO2Si2	029522-18-7	38





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042803.D
Acq On : 04 Aug 2025 14:03
Operator : SY/MD
Sample : Q2750-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
.alpha.-Pinene	10.856	5.1	ppbv	747751	3	8.879	1459470	10.0
.beta.-Pinene	11.423	7.2	ppbv	1050920	3	8.879	1459470	10.0
3-Carene	11.850	11.0	ppbv	1608330	3	8.879	1459470	10.0
D-Limonene	12.041	30.3	ppbv	4418890	3	8.879	1459470	10.0
5-(4-Fluorophen...	13.381	5.7	ppbv	837908	3	8.879	1459470	10.0

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-5DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-04DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042815.D	20		08/04/25 20:49	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.20	10.9	UD	10.9	49.5	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.50	1.28	UD	1.28	1.53	ug/m3
74-83-9	Bromomethane	1.50	5.82	UD	5.82	38.8	ug/m3
75-00-3	Chloroethane	3.00	7.92	UD	7.92	26.4	ug/m3
109-99-9	Tetrahydrofuran	1.60	4.72	UD	4.72	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.40	19.1	UD	19.1	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	2.80	21.5	UD	21.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.00	21.0	UD	21.0	69.9	ug/m3
75-65-0	tert-Butyl alcohol	3.20	9.70	UD	9.70	30.3	ug/m3
142-82-5	Heptane	3.40	13.9	UD	13.9	41.0	ug/m3
75-35-4	1,1-Dichloroethene	3.00	11.9	UD	11.9	39.6	ug/m3
67-64-1	Acetone	130	309	D	8.55	23.8	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.60	16.6	UD	16.6	36.0	ug/m3
75-09-2	Methylene Chloride	13.7	47.6	D	16.0	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	2.40	9.52	UD	9.52	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	1.10	3.24	UD	3.24	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.50	3.15	UD	3.15	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	2.00	7.93	UD	7.93	39.6	ug/m3
67-66-3	Chloroform	1.90	9.28	UD	9.28	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.32	1.75	UD	1.75	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	2.80	13.1	UD	13.1	46.7	ug/m3
71-43-2	Benzene	1.60	5.11	UD	5.11	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.90	7.69	UD	7.69	40.5	ug/m3
79-01-6	Trichloroethene	0.48	2.58	UD	2.58	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.60	12.0	UD	12.0	46.2	ug/m3
75-27-4	Bromodichloromethane	1.30	8.71	UD	8.71	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	3.20	12.1	UD	12.1	37.7	ug/m3
10061-02-6	t-1,3-Dichloropropene	3.00	13.6	UD	13.6	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.20	9.99	UD	9.99	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.60	8.73	UD	8.73	54.6	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-5DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-04DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042815.D	20		08/04/25 20:49	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	1.70	14.5	UD	14.5	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.70	13.1	UD	13.1	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	3.80	16.5	UD	16.5	43.4	ug/m3
179601-23-1	m/p-Xylene	8.20	35.6	UD	35.6	86.9	ug/m3
95-47-6	o-Xylene	4.20	18.2	UD	18.2	43.4	ug/m3
100-42-5	Styrene	3.20	13.6	UD	13.6	42.6	ug/m3
75-25-2	Bromoform	0.96	9.93	UD	9.93	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.36	2.47	UD	2.47	4.12	ug/m3
95-49-8	2-Chlorotoluene	3.40	17.6	UD	17.6	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	4.20	31.2	UD	31.2	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	2.60	27.7	UD	27.7	107	ug/m3
106-99-0	1,3-Butadiene	1.00	2.21	UD	2.21	22.1	ug/m3
91-20-3	Naphthalene	0.26	1.36	UD	1.36	10.5	ug/m3
622-96-8	4-Ethyltoluene	4.20	20.6	UD	20.6	49.2	ug/m3
110-54-3	Hexane	4.00	14.1	JD	11.3	35.2	ug/m3
107-05-1	Allyl Chloride	2.20	6.89	UD	6.89	31.3	ug/m3
123-91-1	1,4-Dioxane	4.40	15.9	UD	15.9	36.0	ug/m3
80-62-6	Methyl Methacrylate	2.80	11.5	UD	11.5	41.0	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			70 (65) - 130 (135)	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	152000		2.787			
540-36-3	1,4-Difluorobenzene	412000		3.956			
3114-55-4	Chlorobenzene-d5	344000		8.879			

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-5DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-04DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042815.D	20		08/04/25 20:49	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042815.D
Acq On : 04 Aug 2025 20:49
Operator : SY/MD
Sample : Q2750-04DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:12:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	151902	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	412340	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.879	117	344266	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	261303	9.584	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.800%				
Target Compounds							Qvalue
3) Chlorodifluoromethane	1.473	51	102736	3.927	ppbv		99
9) Propene	1.486	41	6802m	0.715	ppbv		
13) Ethanol	1.722	45	188043	270.448	ppbv		90
15) Acetone	1.836	43	133054	6.343	ppbv		99
19) Isopropyl Alcohol	1.891	45	4242568	380.618	ppbv	#	40
20) Methylene Chloride	2.062	84	4526	0.685	ppbv	#	80
26) Hexane	2.826	57	4065	0.200	ppbv	#	81

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

Quantitation Report (QT Reviewed)

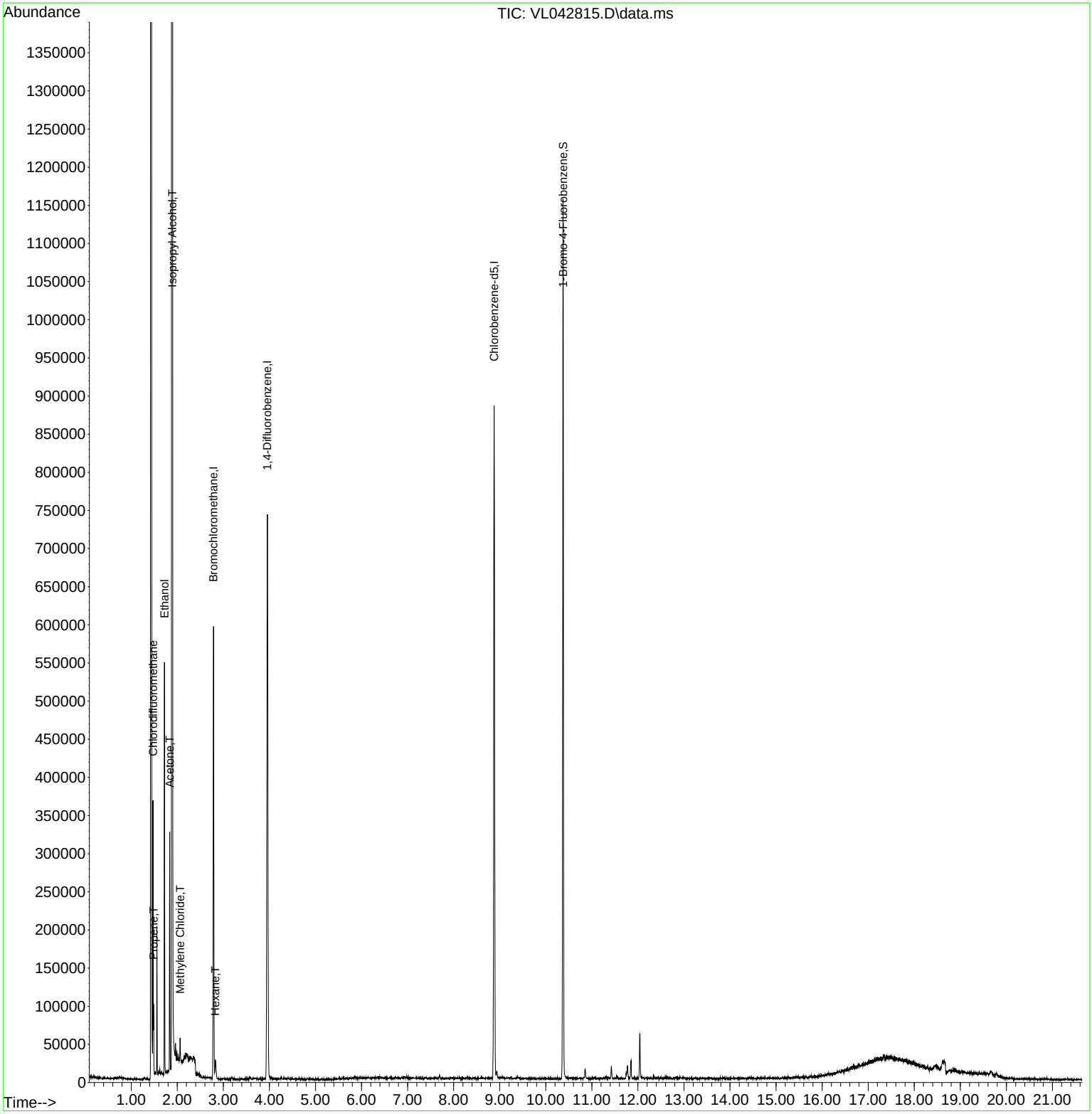
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042815.D
Acq On : 04 Aug 2025 20:49
Operator : SY/MD
Sample : Q2750-04DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

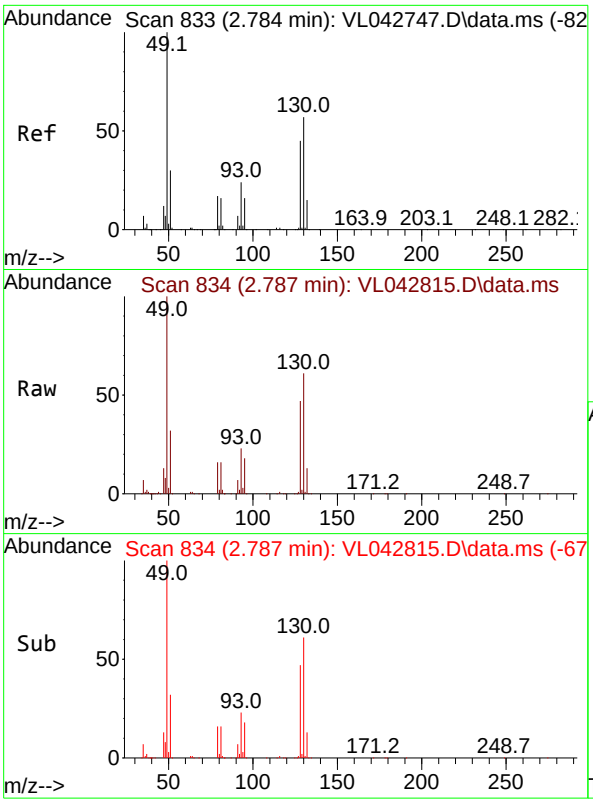
Quant Time: Aug 05 01:12:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

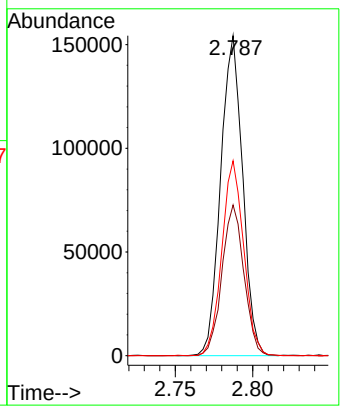




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 49 Resp: 15190

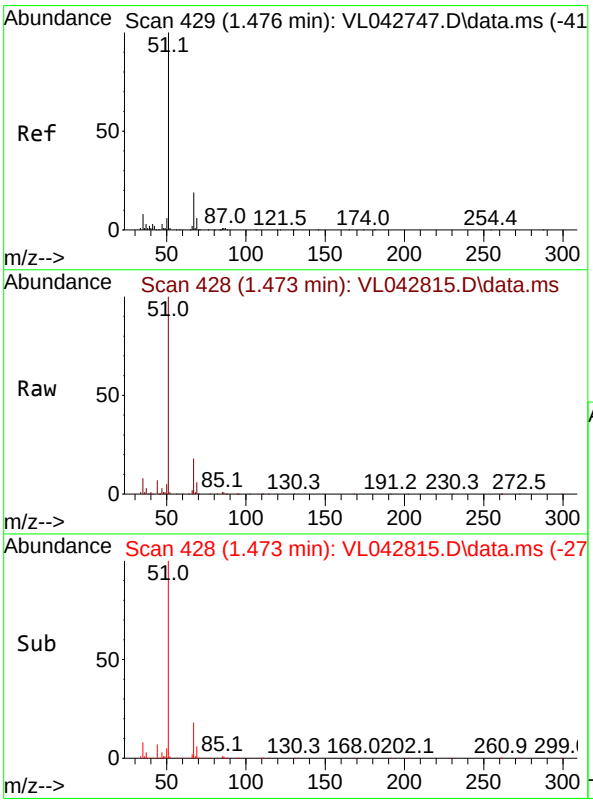
Ion	Ratio	Lower	Upper
49	100		
128	47.2	23.6	71.0
130	60.6	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Manual Integrations
APPROVED

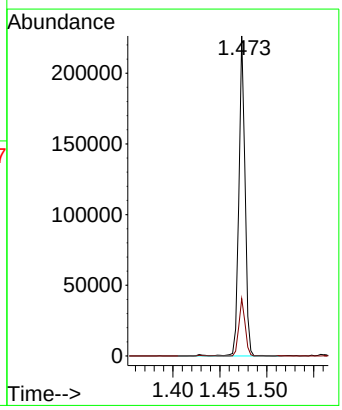
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

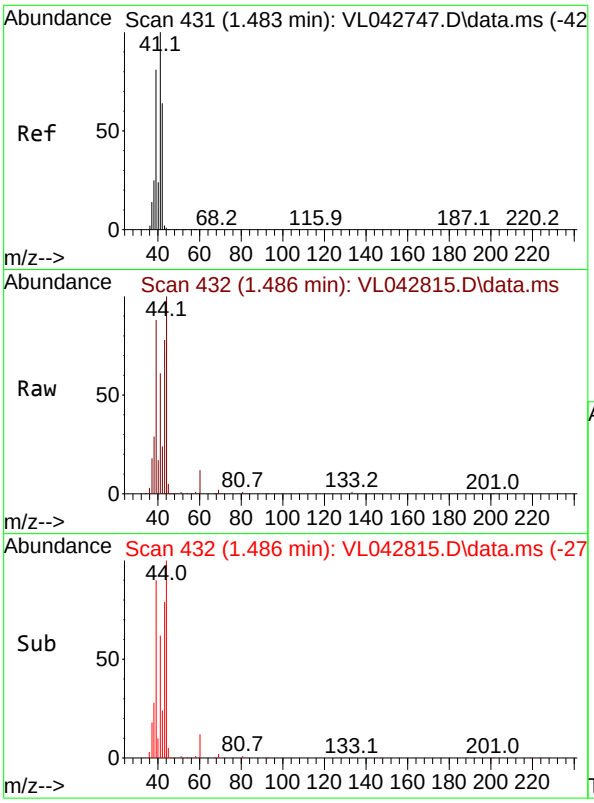


#3
Chlorodifluoromethane
Concen: 3.927 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.003 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 51 Resp: 102736

Ion	Ratio	Lower	Upper
51	100		
67	18.5	15.0	22.6

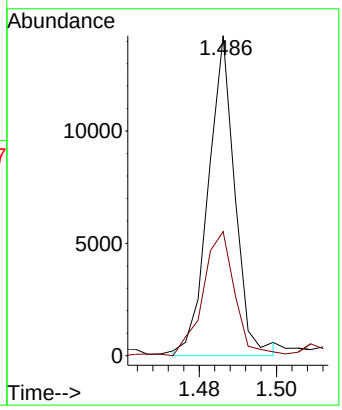




#9
Propene
Concen: 0.715 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 41 Resp: 680

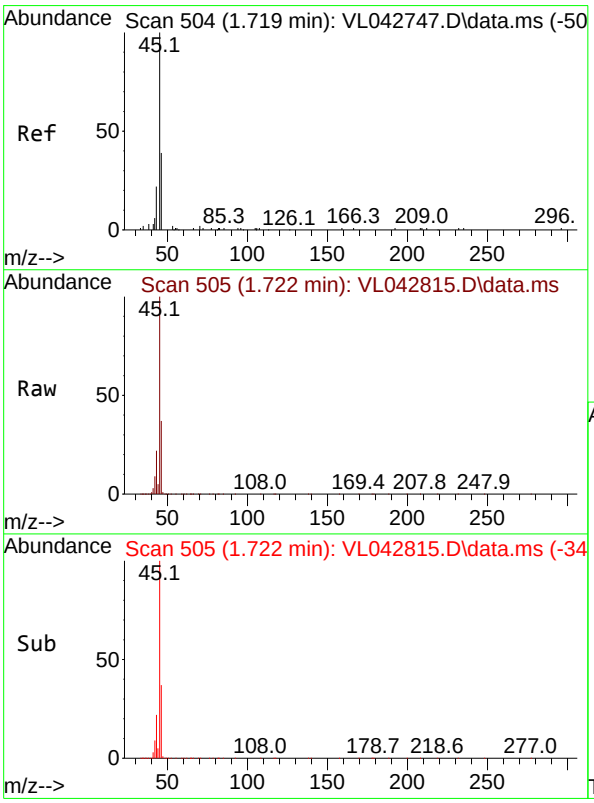
Ion	Ratio	Lower	Upper
41	100		
42	9363.9	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Manual Integrations
APPROVED

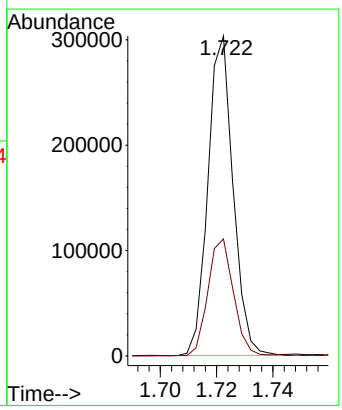
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

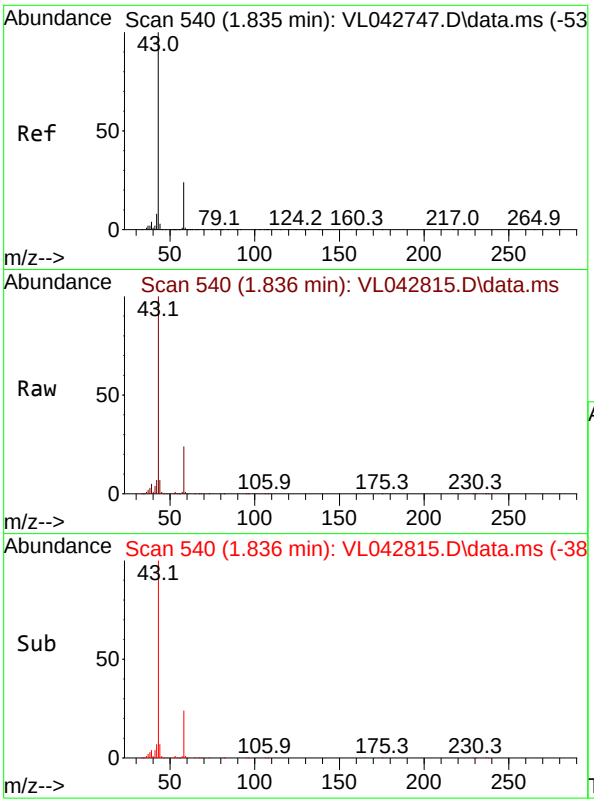


#13
Ethanol
Concen: 270.448 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 45 Resp: 188043

Ion	Ratio	Lower	Upper
45	100		
46	37.8	17.8	71.4

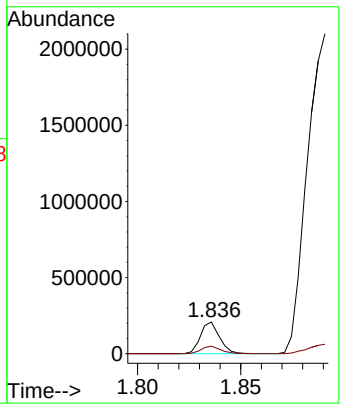




#15
Acetone
Concen: 6.343 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 43 Resp: 133054

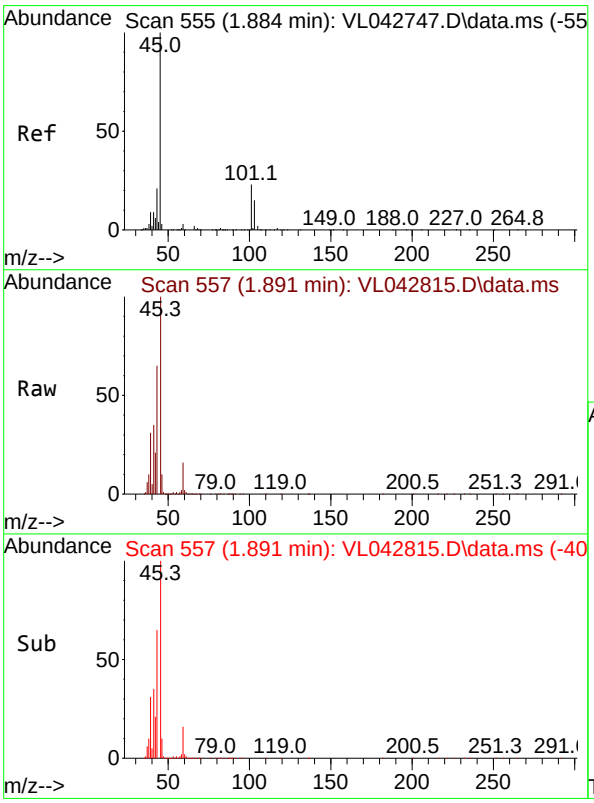
Ion	Ratio	Lower	Upper
43	100		
58	24.3	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Manual Integrations
APPROVED

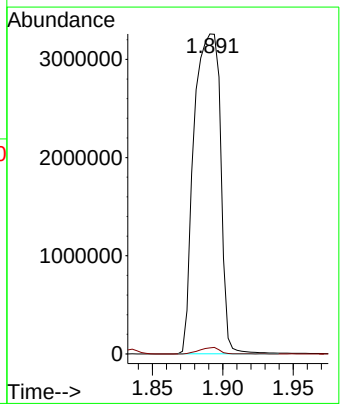
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

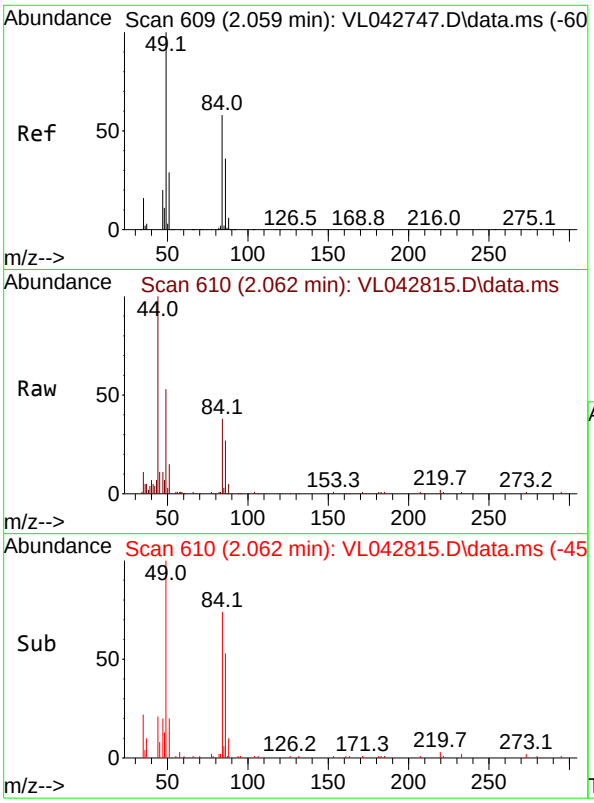


#19
Isopropyl Alcohol
Concen: 380.618 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 45 Resp: 4242568

Ion	Ratio	Lower	Upper
45	100		
58	1.6	30.0	45.0#

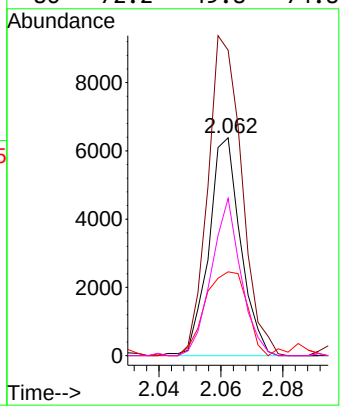




#20
Methylene Chloride
Concen: 0.685 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 84 Resp: 452

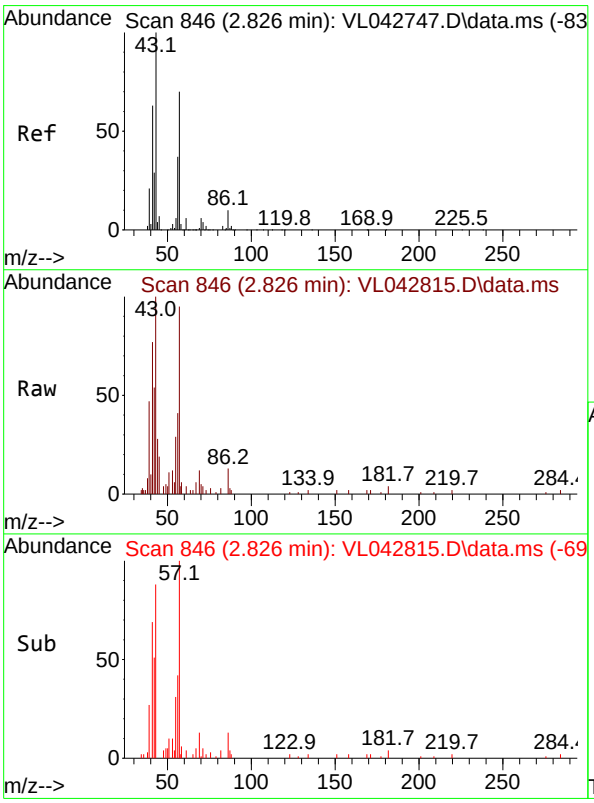
Ion	Ratio	Lower	Upper
84	100		
49	140.2	138.6	208.0
51	38.5	40.6	61.0#
86	72.2	49.8	74.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Manual Integrations
APPROVED

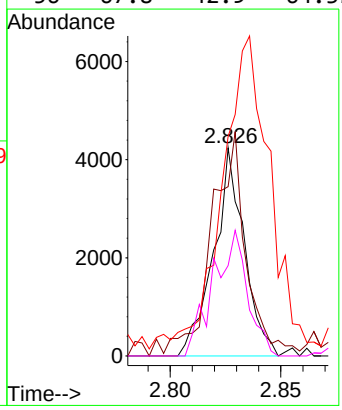
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

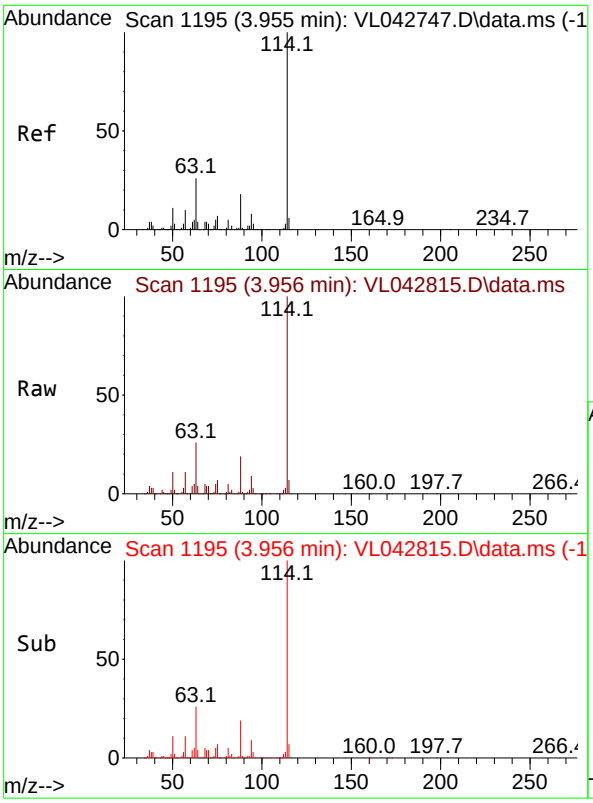


#26
Hexane
Concen: 0.200 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 57 Resp: 4065

Ion	Ratio	Lower	Upper
57	100		
41	120.2	75.4	113.2#
43	257.2	185.0	277.6
56	67.8	42.9	64.3#

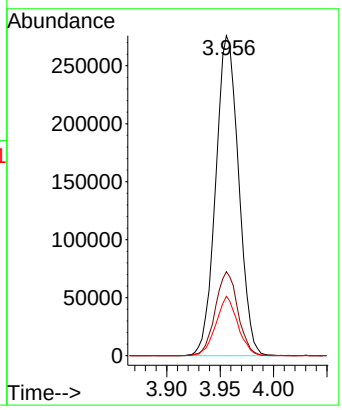




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion:114 Resp: 41234

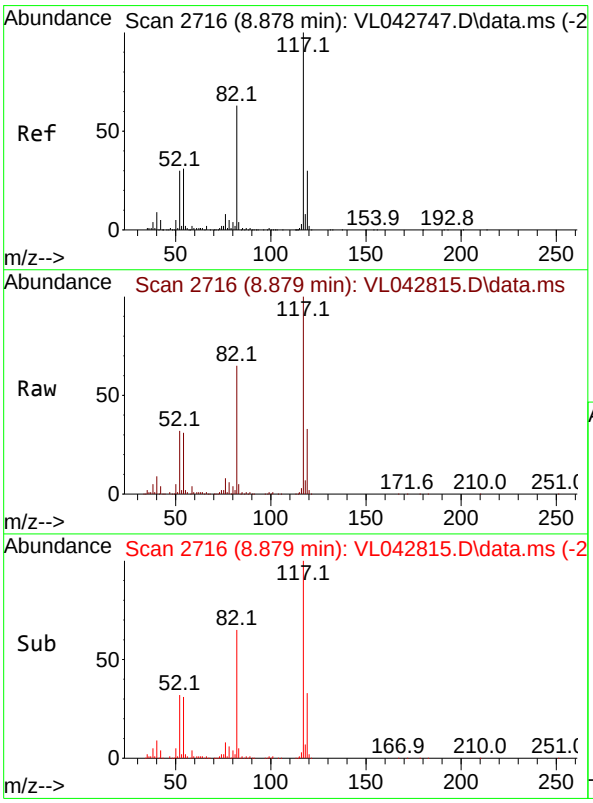
Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.5	30.7
88	17.7	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Manual Integrations
APPROVED

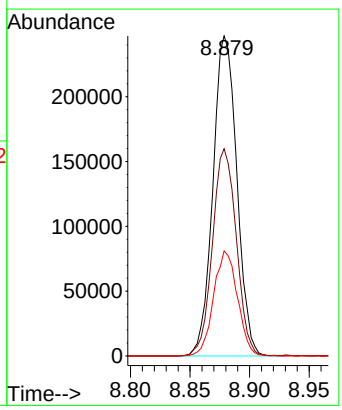
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

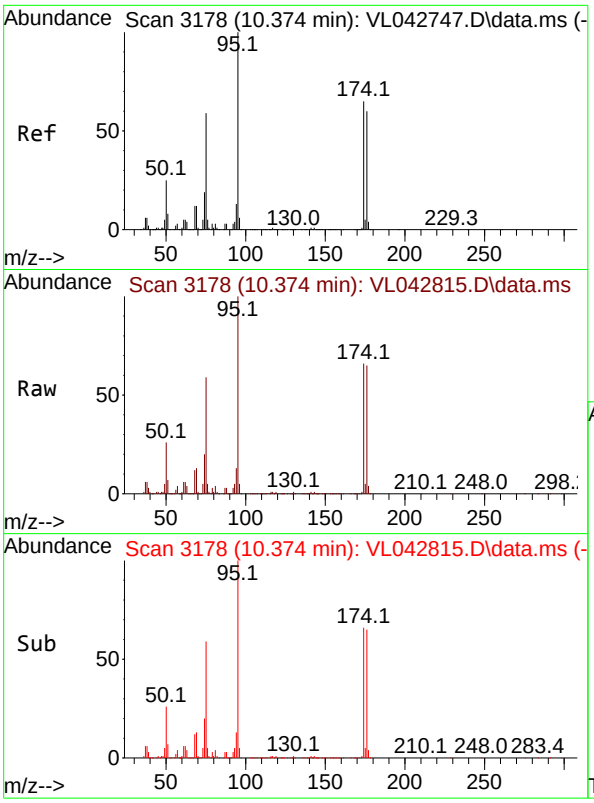


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion:117 Resp: 344266

Ion	Ratio	Lower	Upper
117	100		
82	64.6	53.3	79.9
119	32.7	25.8	38.6

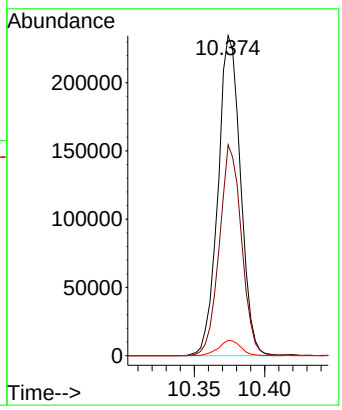




#68
1-Bromo-4-Fluorobenzene
Concen: 9.584 ppbv
RT: 10.374 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 95 Resp: 26130

Ion	Ratio	Lower	Upper
95	100		
174	65.0	53.8	80.6
175	4.8	4.0	6.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-6	SDG No.:	Q2750
Lab Sample ID:	Q2750-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042804.D	1		08/04/25 14:37	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.57	2.82		0.54	2.47	ug/m3
74-87-3	Chloromethane	0.69	1.42		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	97.8	232	E	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	3.00	9.34		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	1.90	6.60		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	1.10	3.24		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.57	2.78		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.28	0.89	J	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.92	3.47		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-6	SDG No.:	Q2750
Lab Sample ID:	Q2750-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042804.D	1		08/04/25 14:37	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.23	0.98	J	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.46	2.41		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	1.70	5.99		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	J	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.8			70 (65) - 130 (135)	108%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	166000		2.79			
540-36-3	1,4-Difluorobenzene	470000		3.962			
3114-55-4	Chlorobenzene-d5	406000		8.885			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	54.8		J		1.48	ppbv
115-07-1	Propene	16.0		J		1.49	ppbv
64-17-5	Ethanol	6600		J		1.73	ppbv

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-6	SDG No.:	Q2750
Lab Sample ID:	Q2750-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042804.D	1		08/04/25 14:37	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	2100		J		1.99	ppbv
141-78-6	Ethyl Acetate	5.20		J		2.85	ppbv
000080-56-8	.alpha.-Pinene	5.60		J		10.9	ppbv
000127-91-3	.beta.-Pinene	7.80		J		11.4	ppbv
013466-78-9	3-Carene	12.1		J		11.9	ppbv
99-87-6	p-Isopropyltoluene	0.77		J		11.9	ppbv
005989-27-5	D-Limonene	29.8		J		12.0	ppbv
000124-19-6	Nonanal	3.30		J		12.7	ppbv
003789-85-3	Salicylic acid, 2TMS derivative	3.50		J		13.4	ppbv

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\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:05:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	165635	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	469711	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	406040	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	346897	10.788	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 107.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	12410	0.567	ppbv		98
3) Chlorodifluoromethane	1.476	51	1563029	54.789	ppbv	#	85
4) Chloromethane	1.531	50	6069	0.685	ppbv		92
9) Propene	1.486	41	166259m	16.035	ppbv		
11) Trichlorofluoromethane	1.878	101	4654	0.206	ppbv		99
13) Ethanol	1.729	45	4952347	6558.716	ppbv		94
15) Acetone	1.835	43	2236923	97.803	ppbv	#	78
19) Isopropyl Alcohol	1.988	45	25024359	2058.899	ppbv	#	39
20) Methylene Chloride	2.065	84	13675	1.897	ppbv		94
25) Ethyl Acetate	2.845	43	260960m	5.155	ppbv		
26) Hexane	2.826	57	36940	1.663	ppbv	#	1
27) Carbon Disulfide	2.149	76	56958	2.996	ppbv	#	66
29) Chloroform	2.852	83	19685	0.574	ppbv		95
34) 2-Butanone	2.567	43	35229	1.059	ppbv		97
35) Carbon Tetrachloride	3.771	117	2263m	0.065	ppbv		
36) Benzene	3.654	78	12364	0.278	ppbv	#	88
43) Methyl Methacrylate	4.901	69	2228m	0.141	ppbv		
53) Toluene	6.943	91	44063m	0.922	ppbv		
59) m/p-Xylene	9.535	91	11877m	0.232	ppbv		
61) Styrene	9.875	104	4911	0.228	ppbv		94
69) p-Isopropyltoluene	11.927	119	60257m	0.774	ppbv		
74) 1,2,4-Trimethylbenzene	11.539	105	7912	0.144	ppbv	#	71
79) Naphthalene	13.523	128	1719	0.463	ppbv	#	73

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

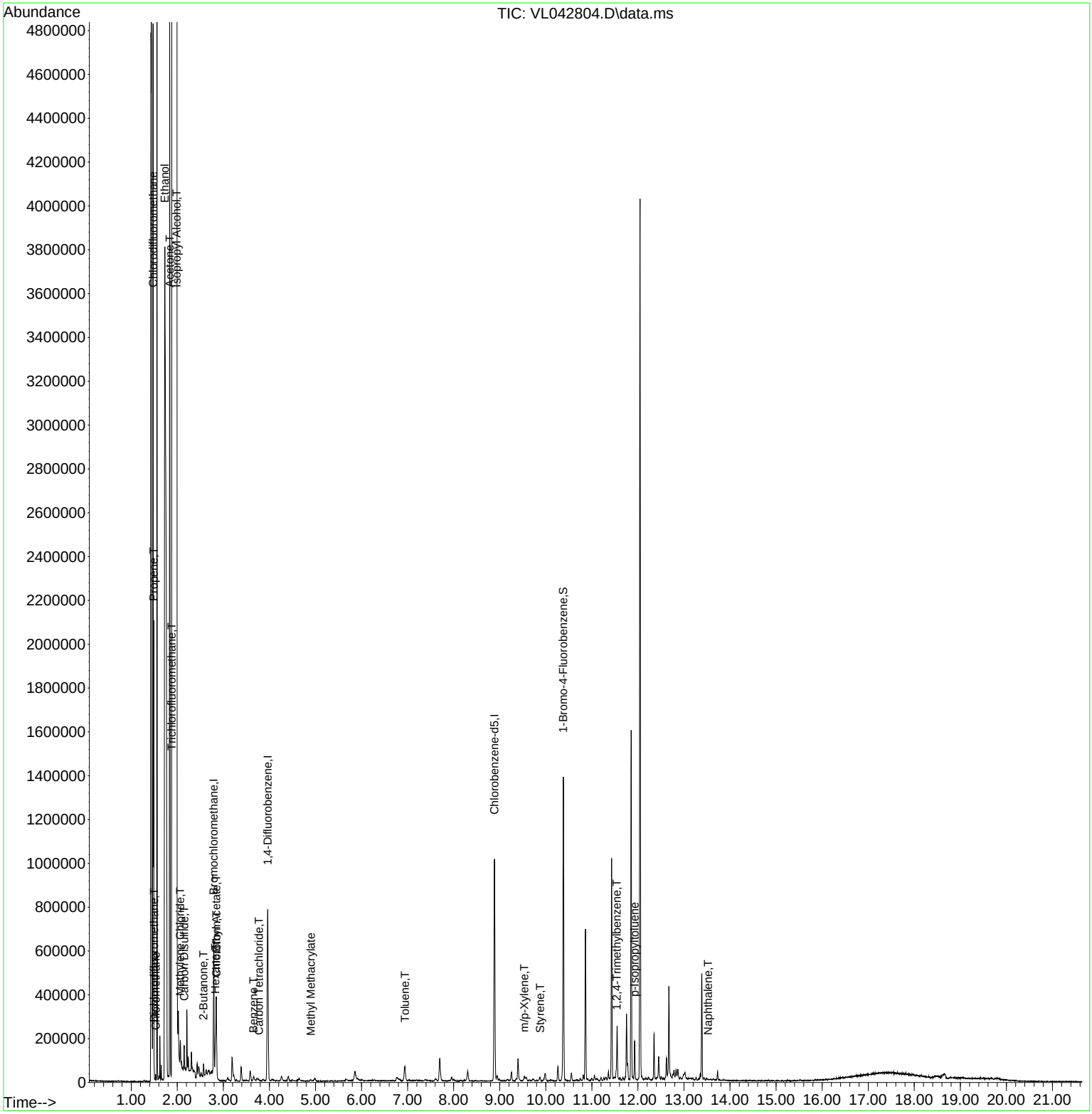
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

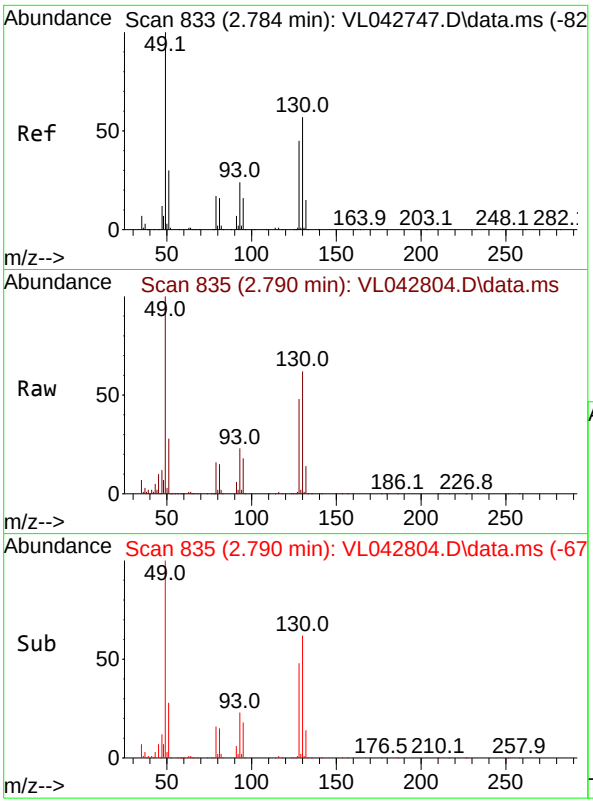
Quant Time: Aug 05 01:05:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

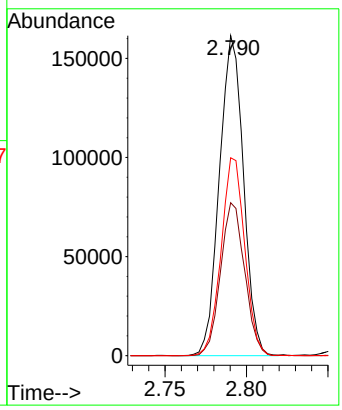
Tgt Ion: 49 Resp: 16563

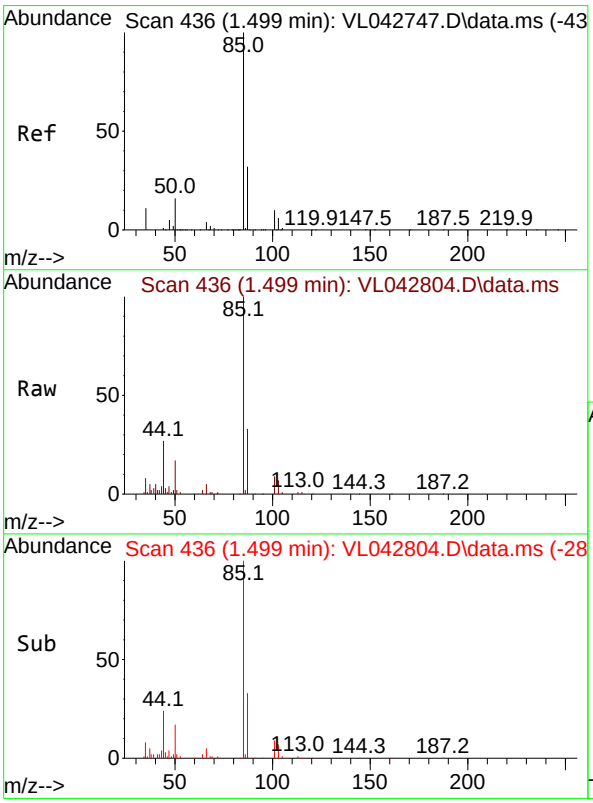
Ion	Ratio	Lower	Upper
49	100		
128	47.9	23.6	71.0
130	60.9	30.3	90.8

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

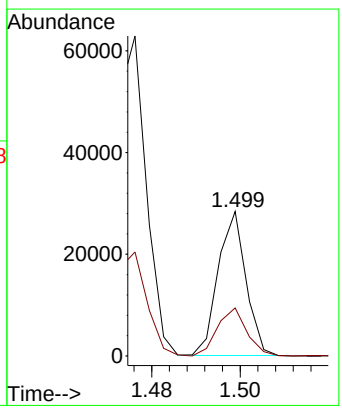


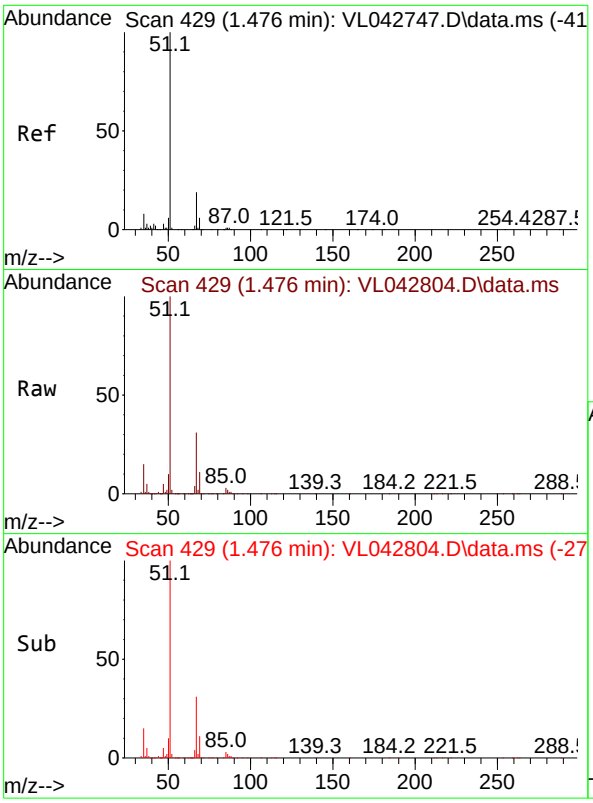


#2
Dichlorodifluoromethane
Concen: 0.567 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 85 Resp: 12410

Ion	Ratio	Lower	Upper
85	100		
87	33.2	25.4	38.2

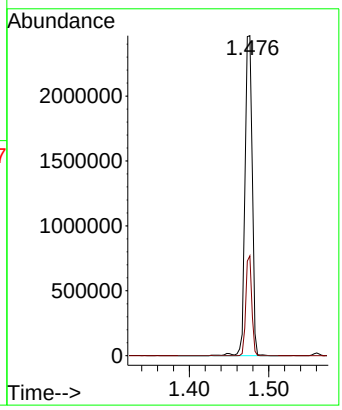




#3
Chlorodifluoromethane
Concen: 54.789 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 51 Resp: 156302

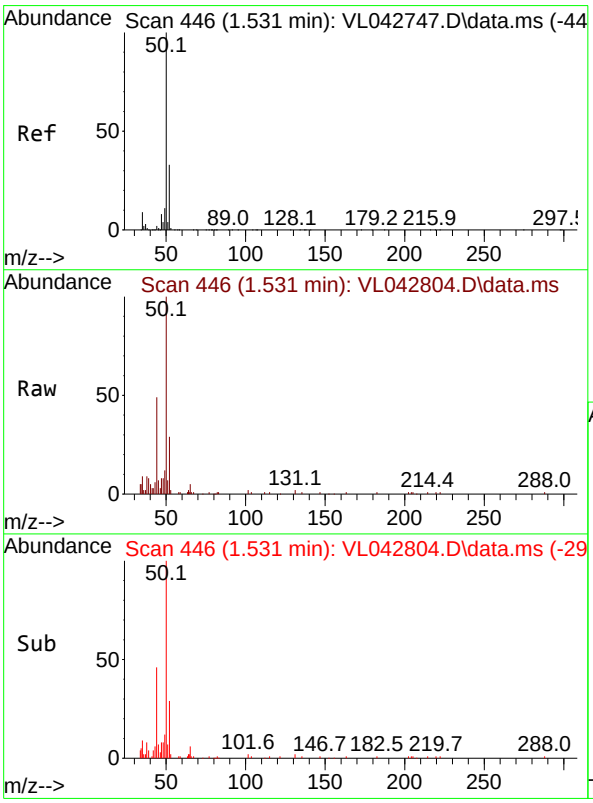
Ion	Ratio	Lower	Upper
51	100		
67	25.6	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

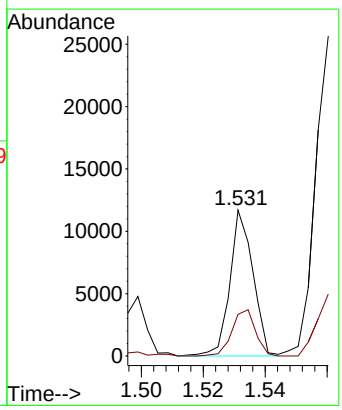
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

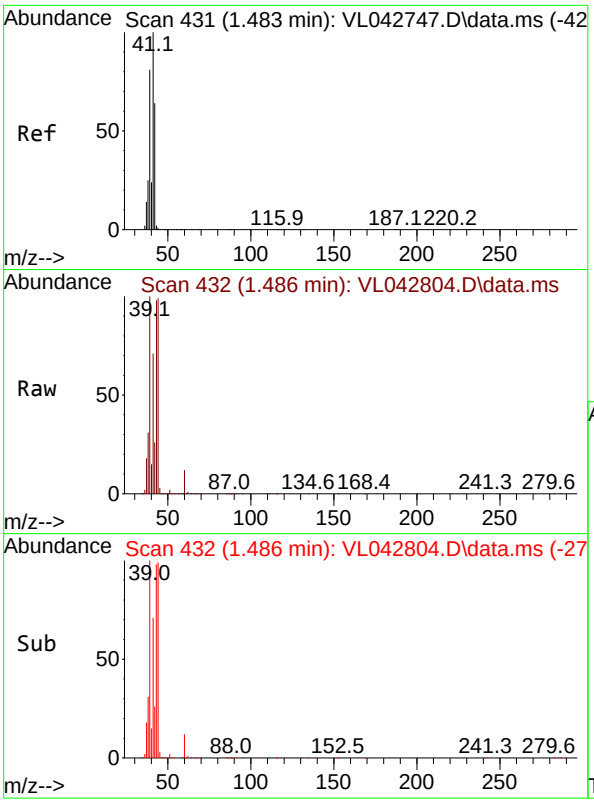


#4
Chloromethane
Concen: 0.685 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 50 Resp: 6069

Ion	Ratio	Lower	Upper
50	100		
52	28.5	26.6	40.0

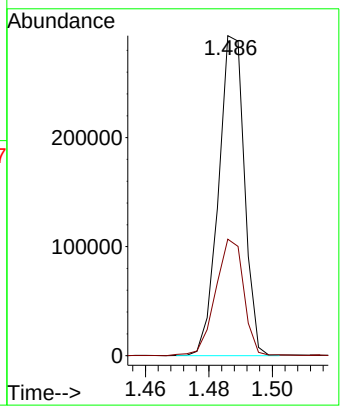




#9
Propene
Concen: 16.035 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 41 Resp: 16625

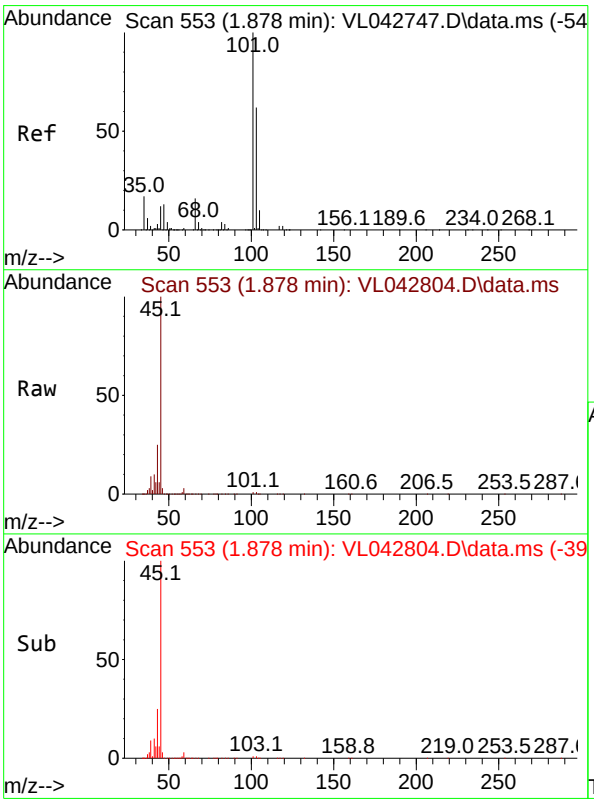
Ion	Ratio	Lower	Upper
41	100		
42	229.7	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

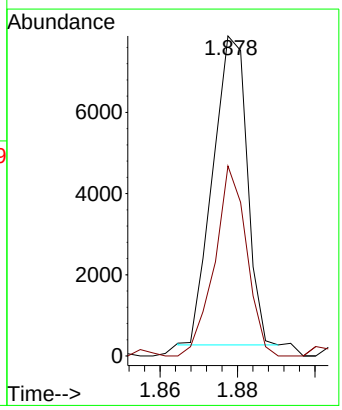
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

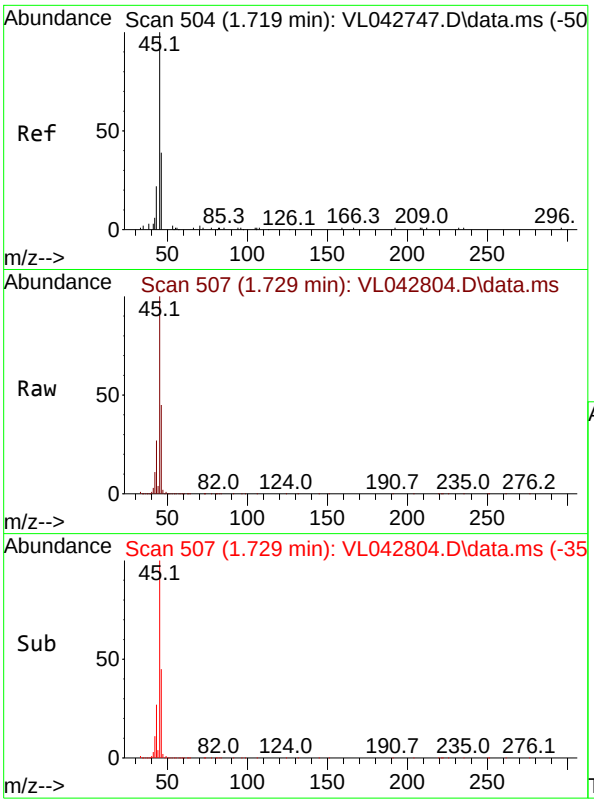


#11
Trichlorofluoromethane
Concen: 0.206 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:101 Resp: 4654

Ion	Ratio	Lower	Upper
101	100		
103	61.5	49.6	74.4

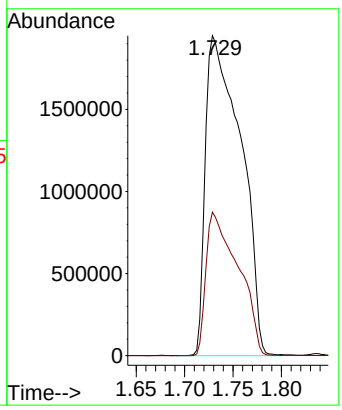




#13
Ethanol
Concen: 6558.716 ppbv
RT: 1.729 min Scan# 5
Delta R.T. 0.010 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 45 Resp: 495234

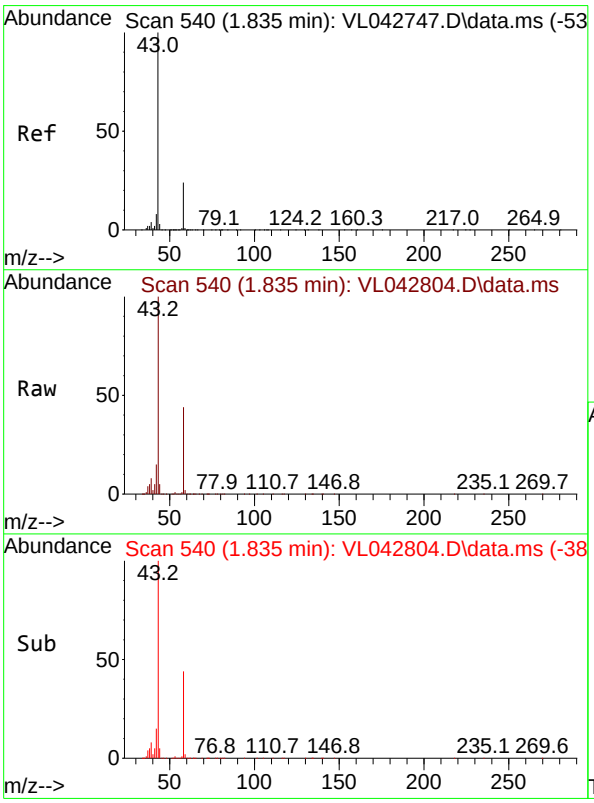
Ion	Ratio	Lower	Upper
45	100		
46	40.9	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

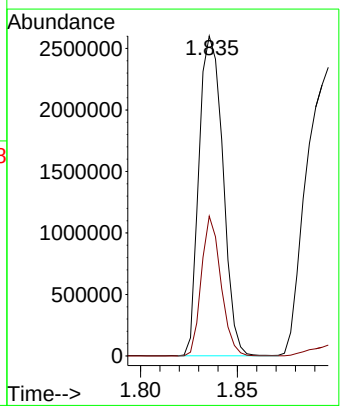
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

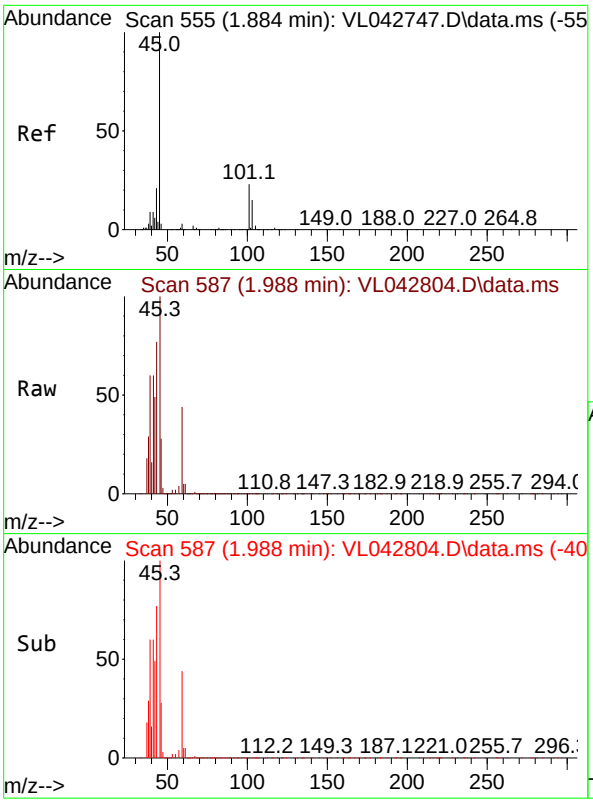


#15
Acetone
Concen: 97.803 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 43 Resp: 2236923

Ion	Ratio	Lower	Upper
43	100		
58	35.8	19.8	29.8#

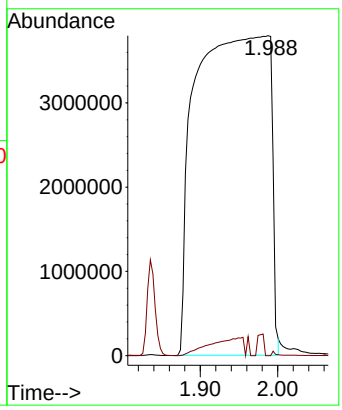




#19
Isopropyl Alcohol
Concen: 2058.899 ppbv
RT: 1.988 min Scan# 5
Delta R.T. 0.104 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 45 Resp:2502435

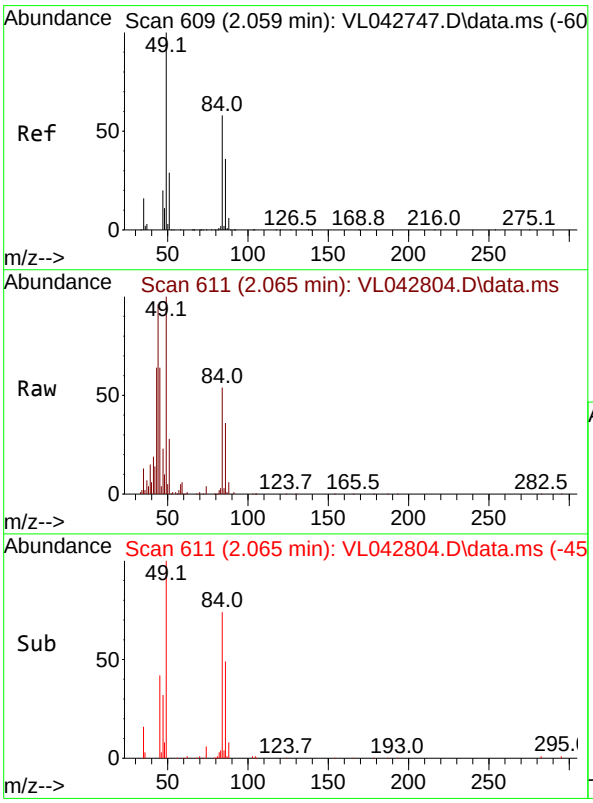
Ion	Ratio	Lower	Upper
45	100		
58	0.7	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

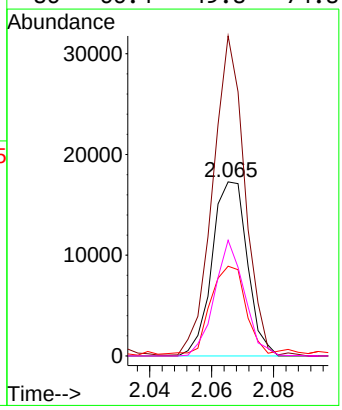
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

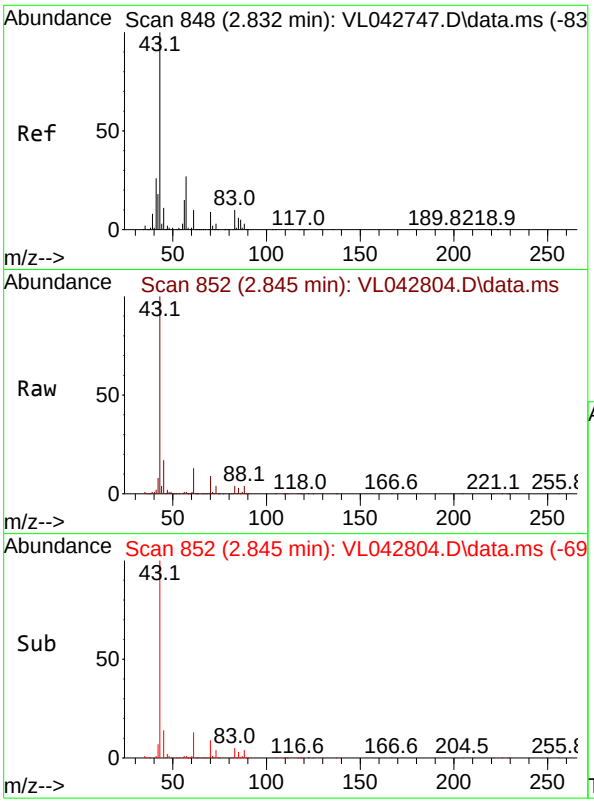


#20
Methylene Chloride
Concen: 1.897 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 84 Resp: 13675

Ion	Ratio	Lower	Upper
84	100		
49	183.1	138.6	208.0
51	49.6	40.6	61.0
86	66.4	49.8	74.8

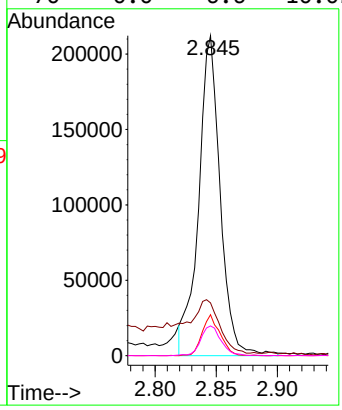




#25
Ethyl Acetate
Concen: 5.155 ppbv m
RT: 2.845 min Scan# 8
Delta R.T. 0.013 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 43 Resp: 26096

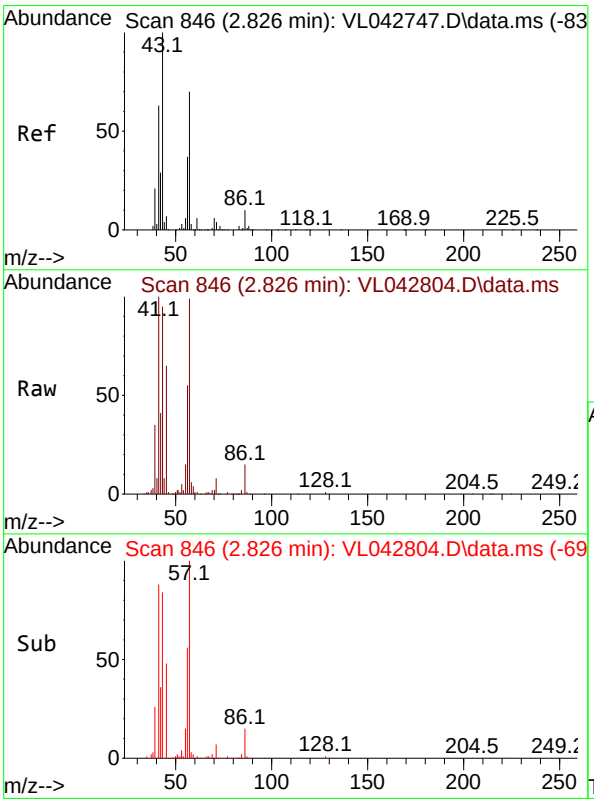
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	6.7	10.1#
70	0.0	6.6	10.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

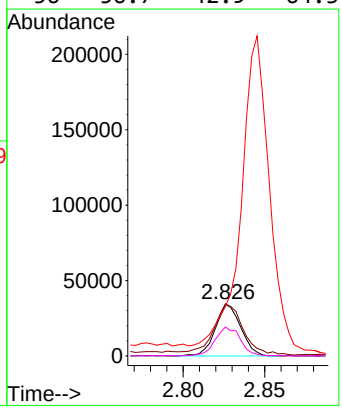
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

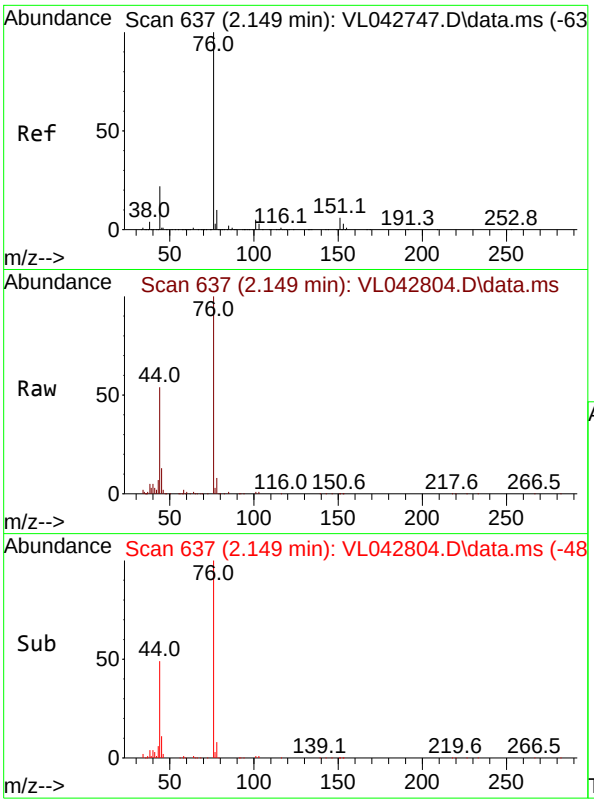


#26
Hexane
Concen: 1.663 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 57 Resp: 36940

Ion	Ratio	Lower	Upper
57	100		
41	124.4	75.4	113.2#
43	733.9	185.0	277.6#
56	56.7	42.9	64.3





#27
Carbon Disulfide
Concen: 2.996 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

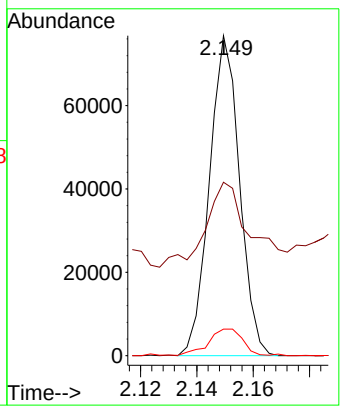
Tgt Ion: 76 Resp: 5695

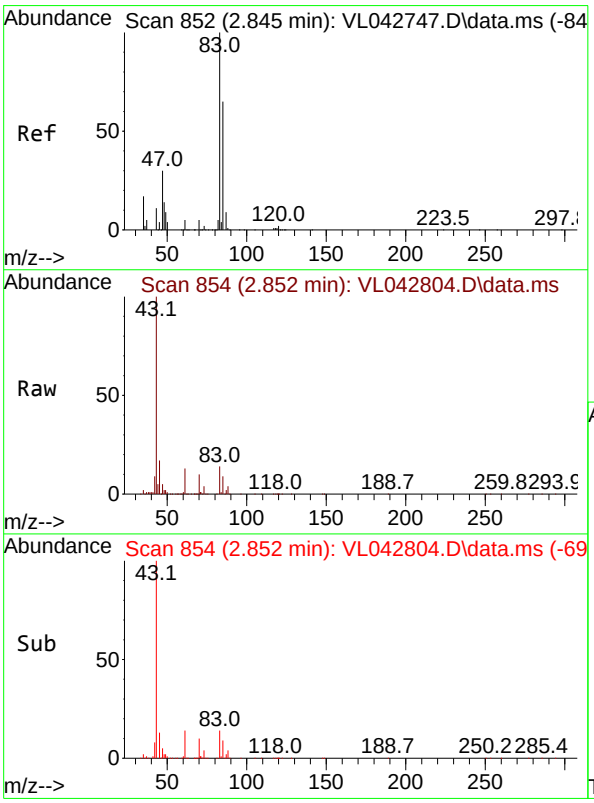
Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9
78	10.2	9.9	14.9

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

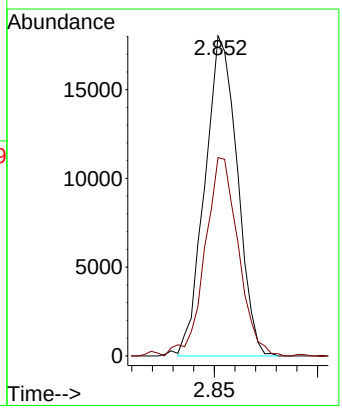


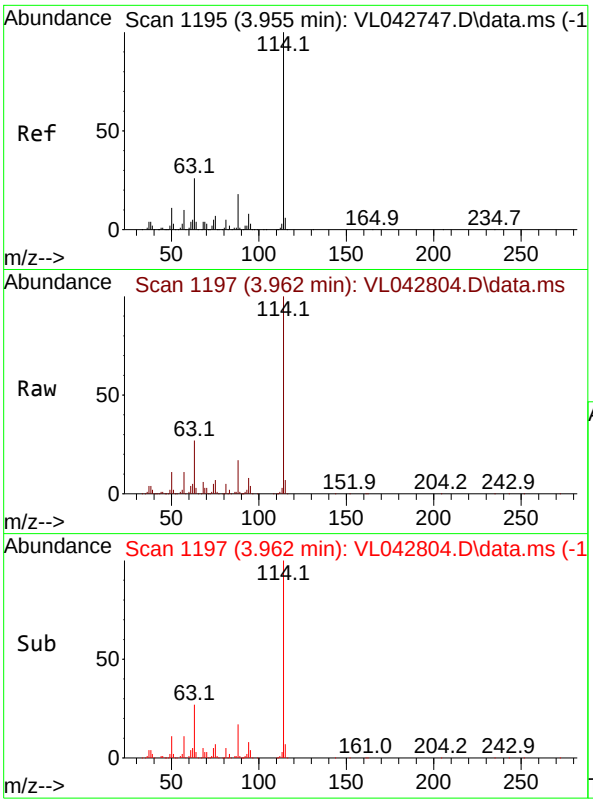


#29
Chloroform
Concen: 0.574 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 83 Resp: 19685

Ion	Ratio	Lower	Upper
83	100		
85	61.3	52.2	78.2

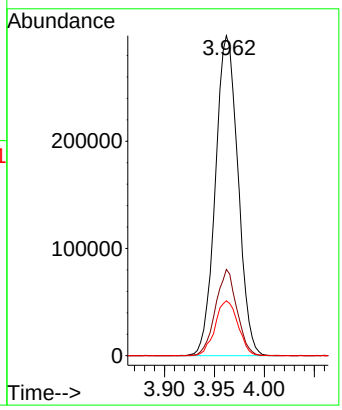




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:114 Resp: 46971

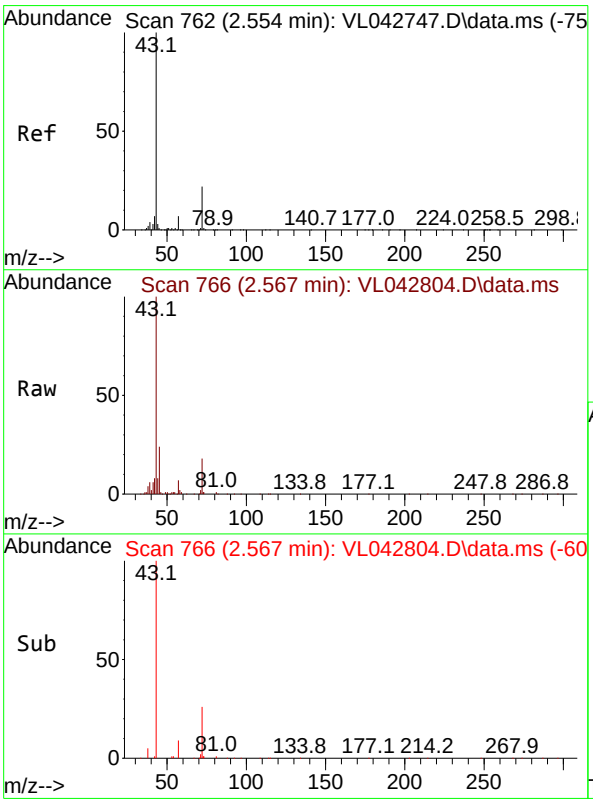
Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.5	30.7
88	17.4	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

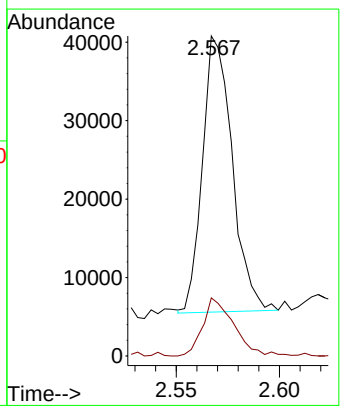
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

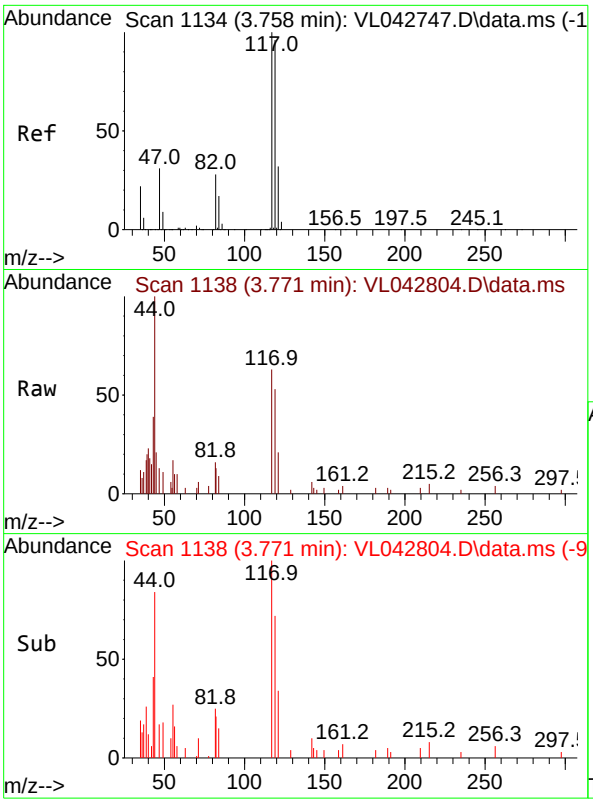


#34
2-Butanone
Concen: 1.059 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 43 Resp: 35229

Ion	Ratio	Lower	Upper
43	100		
72	23.0	17.4	26.0

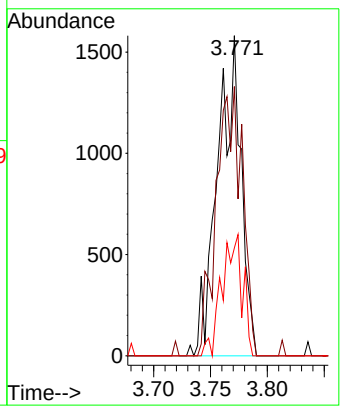




#35
Carbon Tetrachloride
Concen: 0.065 ppbv m
RT: 3.771 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:117 Resp: 226

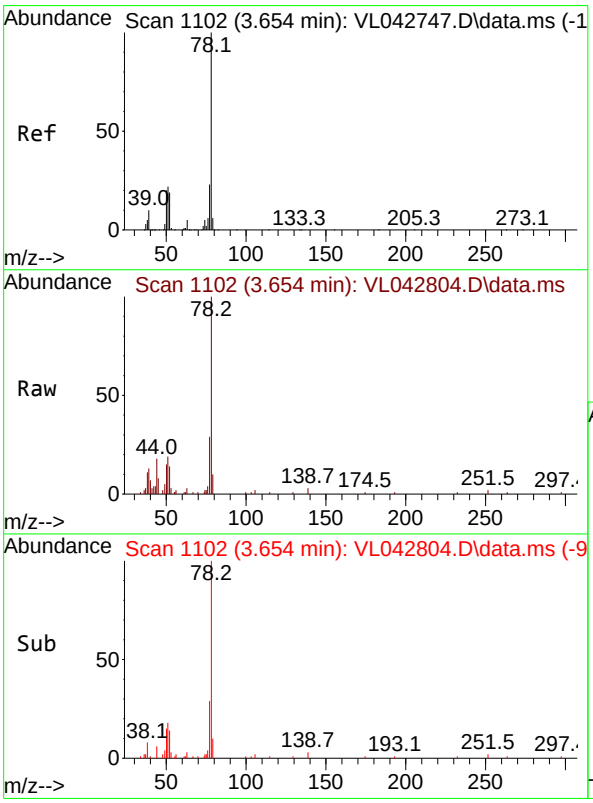
Ion	Ratio	Lower	Upper
117	100		
119	84.1	77.1	115.7
121	33.6	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

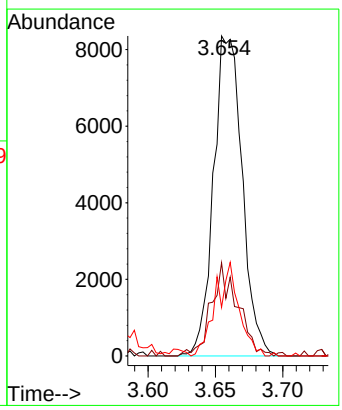
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

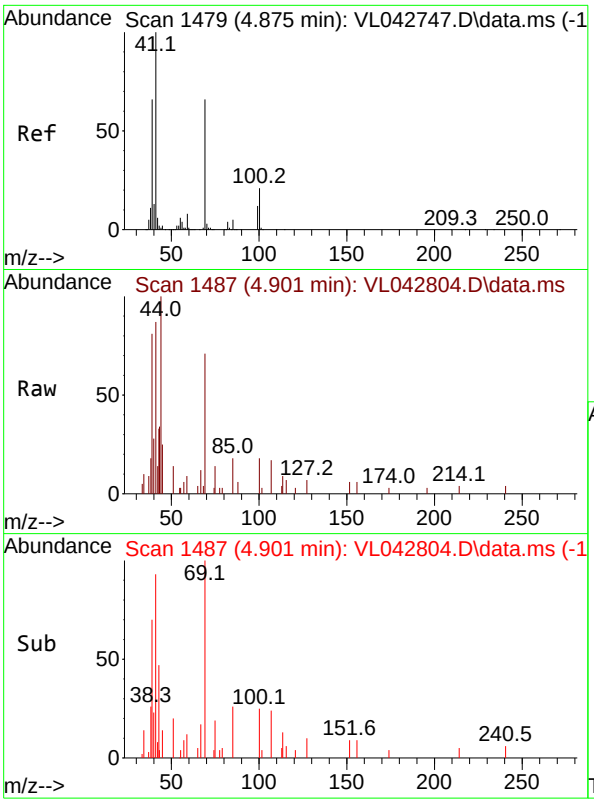


#36
Benzene
Concen: 0.278 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 78 Resp: 12364

Ion	Ratio	Lower	Upper
78	100		
77	29.1	18.5	27.7#
50	15.2	16.2	24.2#

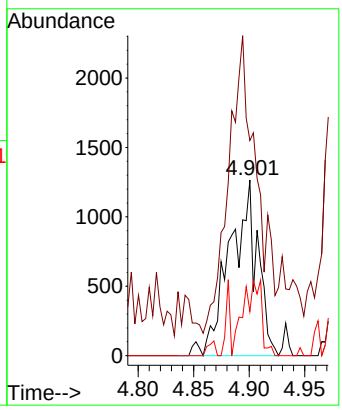




#43
Methyl Methacrylate
Concen: 0.141 ppbv m
RT: 4.901 min Scan# 14
Delta R.T. 0.026 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 69 Resp: 222

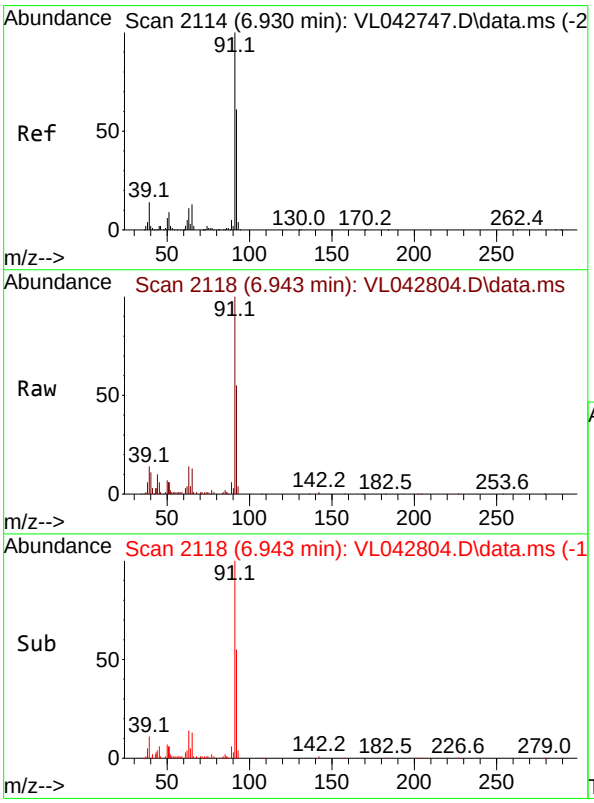
Ion	Ratio	Lower	Upper
69	100		
41	190.4	125.7	188.5#
100	36.4	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

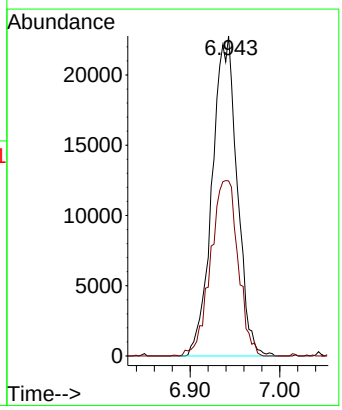
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

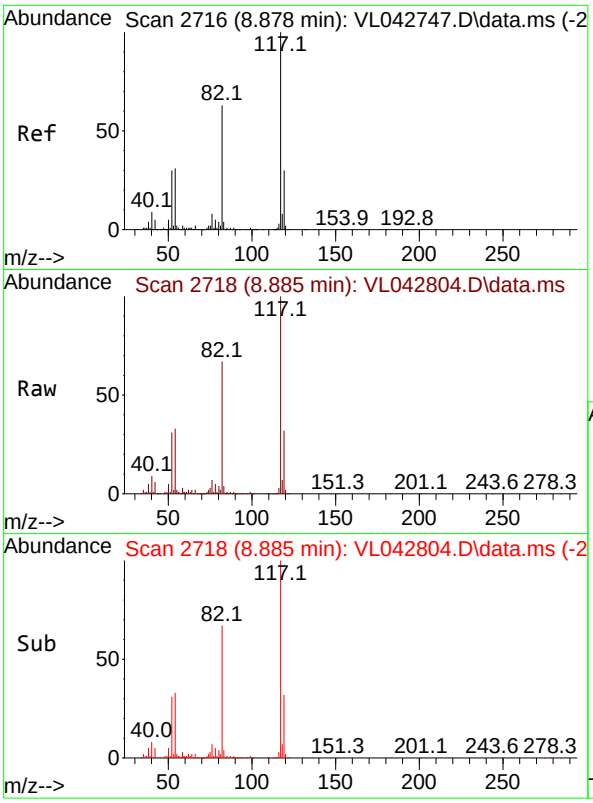


#53
Toluene
Concen: 0.922 ppbv m
RT: 6.943 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 91 Resp: 44063

Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.0	72.0#

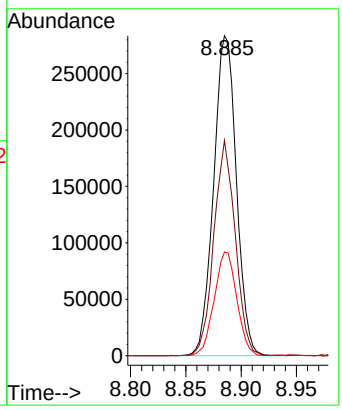




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:117 Resp: 40604

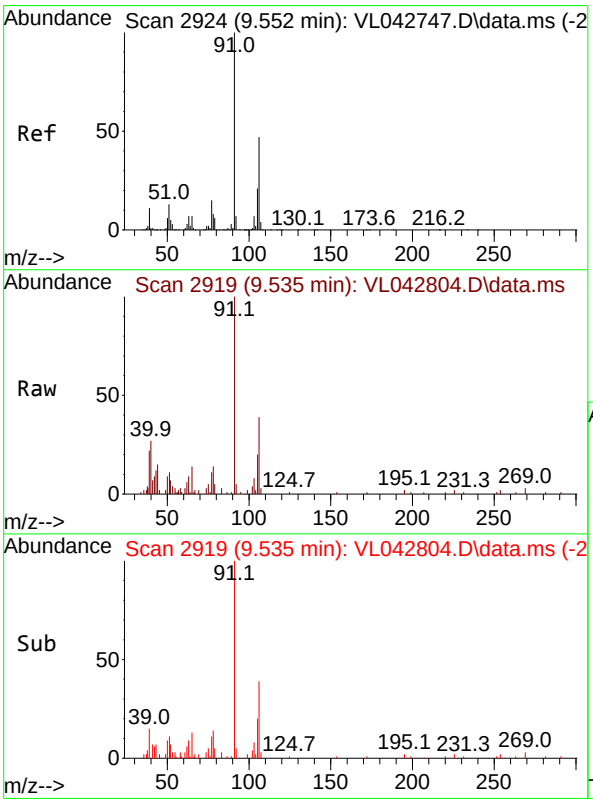
Ion	Ratio	Lower	Upper
117	100		
82	63.3	53.3	79.9
119	32.1	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

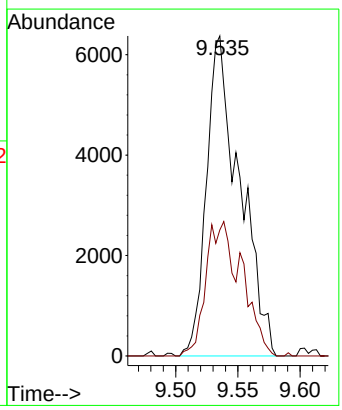
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

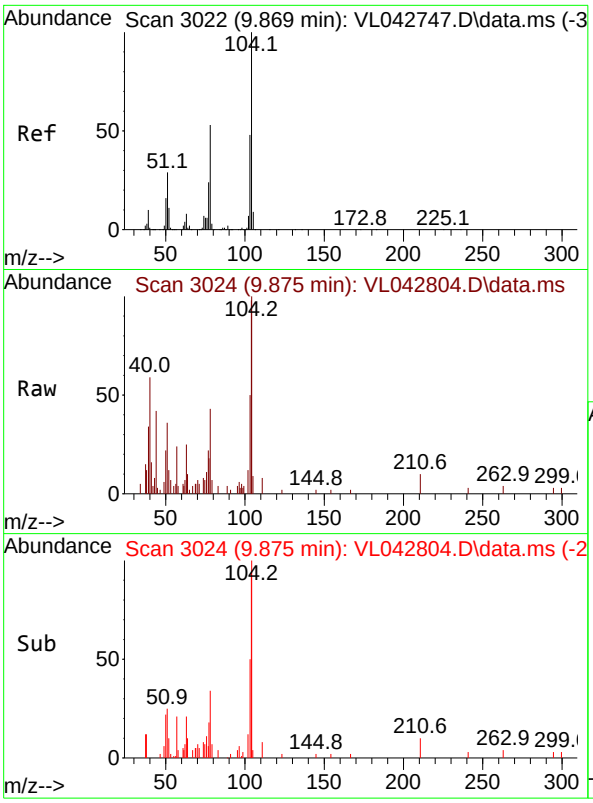


#59
m/p-Xylene
Concen: 0.232 ppbv m
RT: 9.535 min Scan# 2919
Delta R.T. -0.016 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 91 Resp: 11877

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

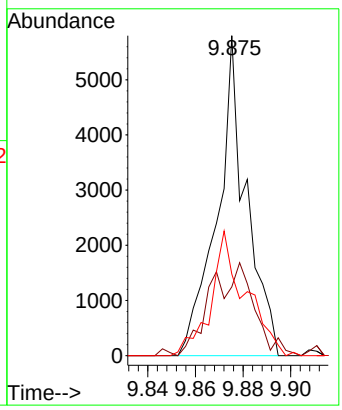




#61
Styrene
Concen: 0.228 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:104 Resp: 491

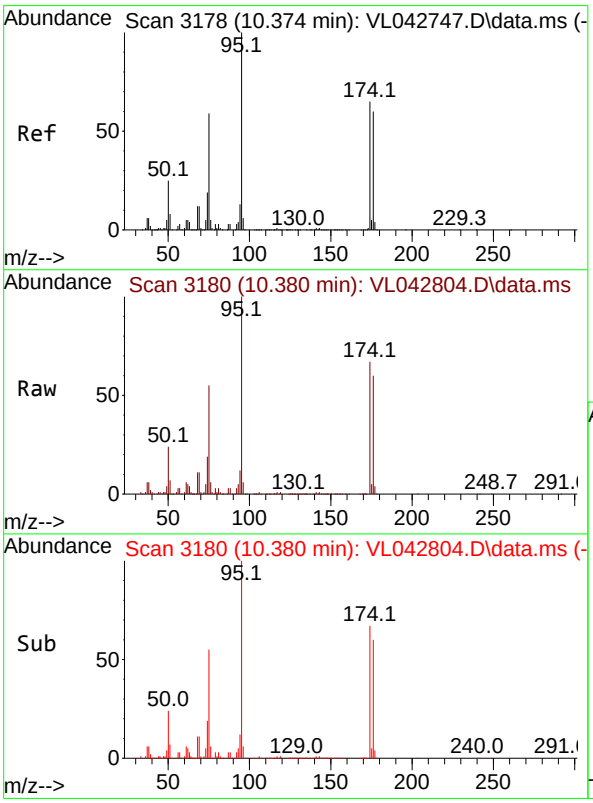
Ion	Ratio	Lower	Upper
104	100		
78	45.2	41.5	62.3
103	46.1	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

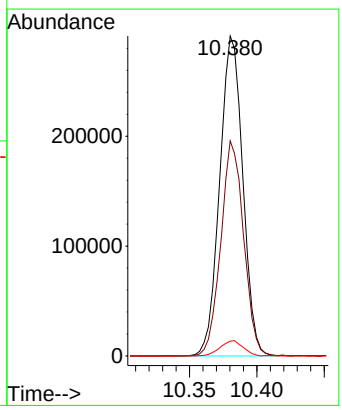
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

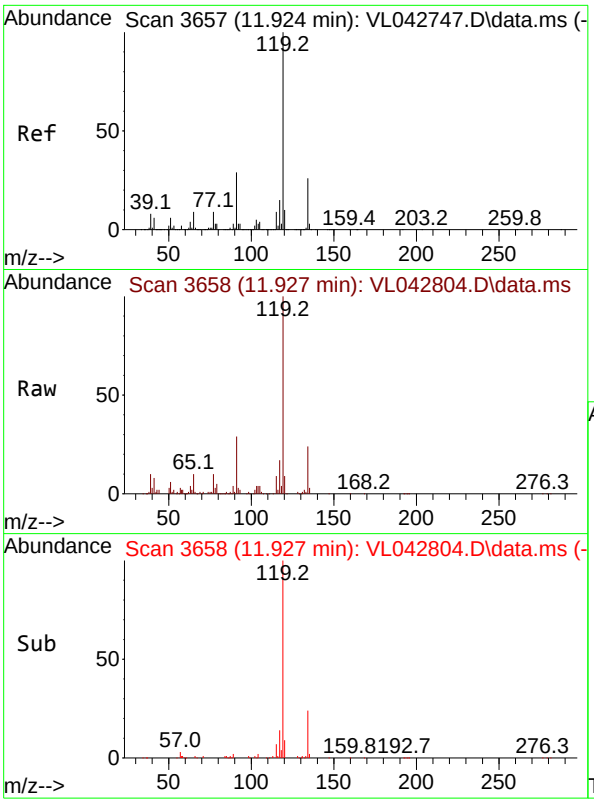


#68
1-Bromo-4-Fluorobenzene
Concen: 10.788 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 95 Resp: 346897

Ion	Ratio	Lower	Upper
95	100		
174	66.4	53.8	80.6
175	4.8	4.0	6.0

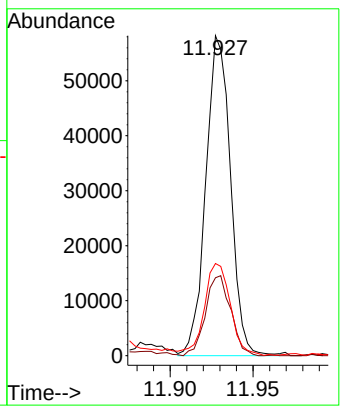




#69
p-Isopropyltoluene
Concen: 0.774 ppbv m
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:119 Resp: 6025

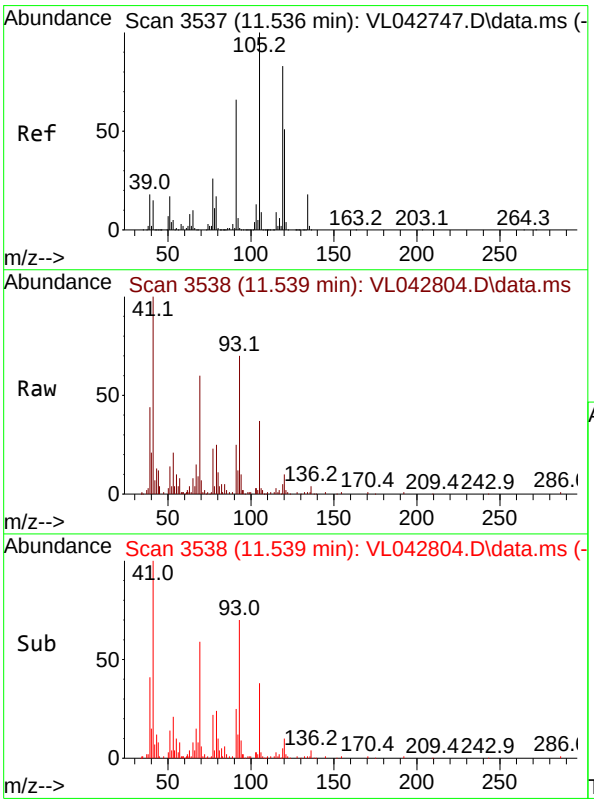
Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	31.0#
91	0.0	23.2	34.8#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

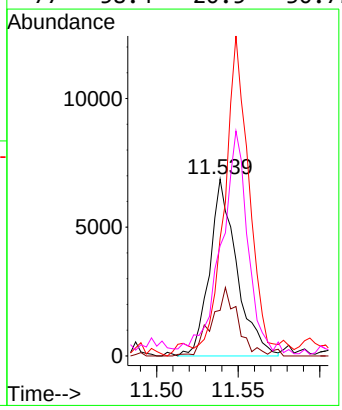
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

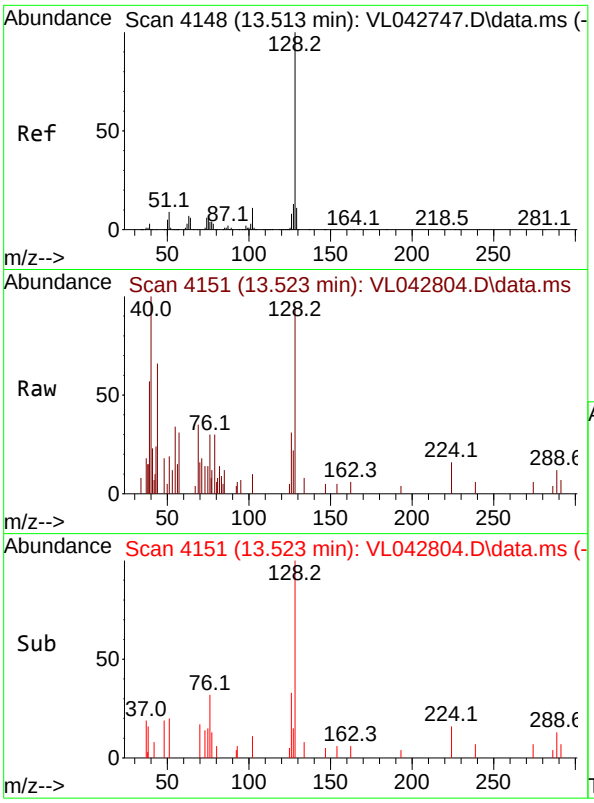


#74
1,2,4-Trimethylbenzene
Concen: 0.144 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:105 Resp: 7912

Ion	Ratio	Lower	Upper
105	100		
120	24.8	40.8	61.2#
91	60.1	53.0	79.4
77	58.4	20.5	30.7#

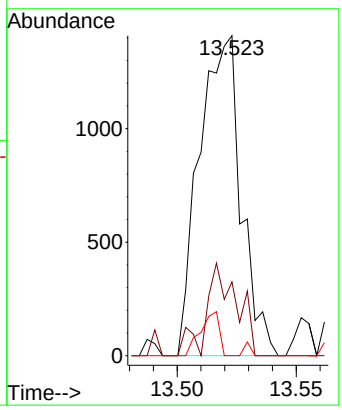




#79
Naphthalene
Concen: 0.463 ppbv
RT: 13.523 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:128 Resp: 171

Ion	Ratio	Lower	Upper
128	100		
127	23.1	10.5	15.7#
129	0.0	8.6	13.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042804.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.428	410	414	416	rBV	4783860	4232161	10.47%	4.671%
2	1.437	416	417	424	rVV2	5000556	2648756	6.55%	2.924%
3	1.476	424	429	431	rVV	4776465	2966538	7.34%	3.274%
4	1.489	431	433	436	rVB	2037193	902882	2.23%	0.997%
5	1.560	451	455	459	rBV	4836878	2583737	6.39%	2.852%
6	1.729	497	507	527	rBV	3802346	9242631	22.86%	10.202%
7	1.835	535	540	551	rBV	4994325	3960112	9.79%	4.371%
8	1.926	551	568	569	rBV2	17523092	40436014	100.00%	44.632%
9	1.962	569	579	580	rVV	2763215	6998284	17.31%	7.724%
10	1.981	580	585	587	rVV2	825120	1983482	4.91%	2.189%
11	2.790	827	835	842	rBV	614381	664189	1.64%	0.733%
12	2.845	842	852	865	rVB3	377333	637235	1.58%	0.703%
13	3.962	1185	1197	1211	rBV	781245	1218323	3.01%	1.345%
14	8.885	2707	2718	2730	rBV	1010195	1442864	3.57%	1.593%
15	10.380	3163	3180	3191	rBV	1387091	1711157	4.23%	1.889%
16	10.859	3320	3328	3338	rVB	686395	806219	1.99%	0.890%
17	11.429	3494	3504	3514	rVB	1006874	1124581	2.78%	1.241%
18	11.853	3626	3635	3644	rBV	1596086	1750660	4.33%	1.932%
19	12.047	3685	3695	3706	rBV	4015370	4303776	10.64%	4.750%
20	12.672	3877	3888	3906	rVB2	415672	477253	1.18%	0.527%
21	13.387	4102	4109	4119	rVB2	483192	507775	1.26%	0.560%

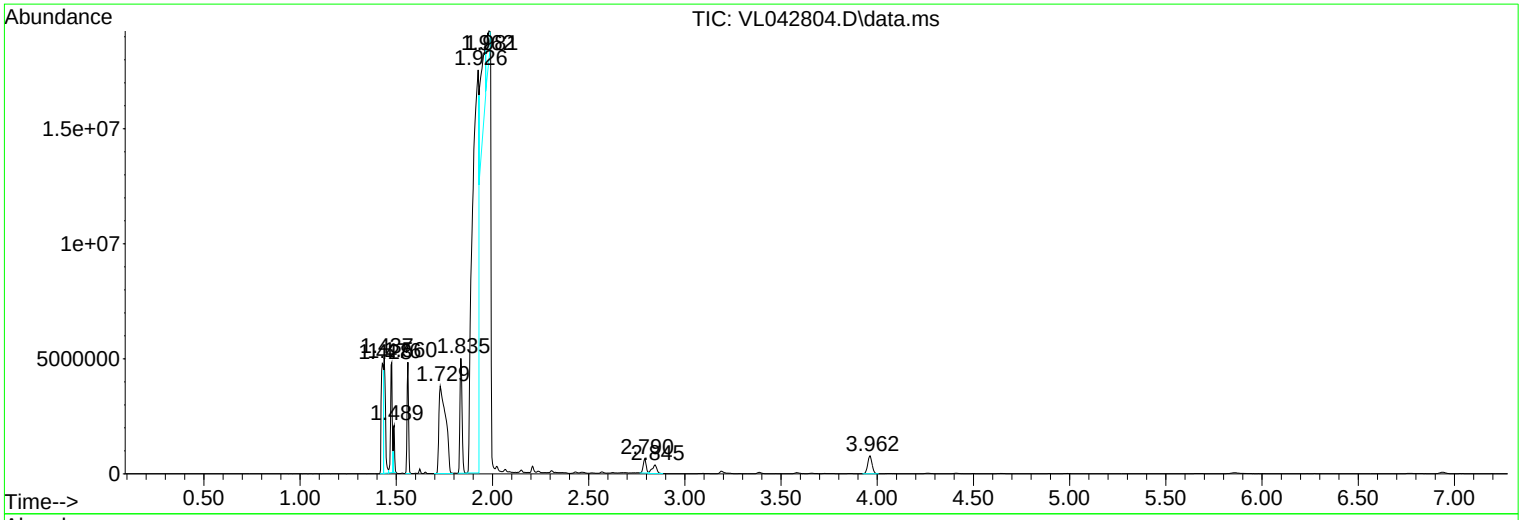
Sum of corrected areas: 90598629

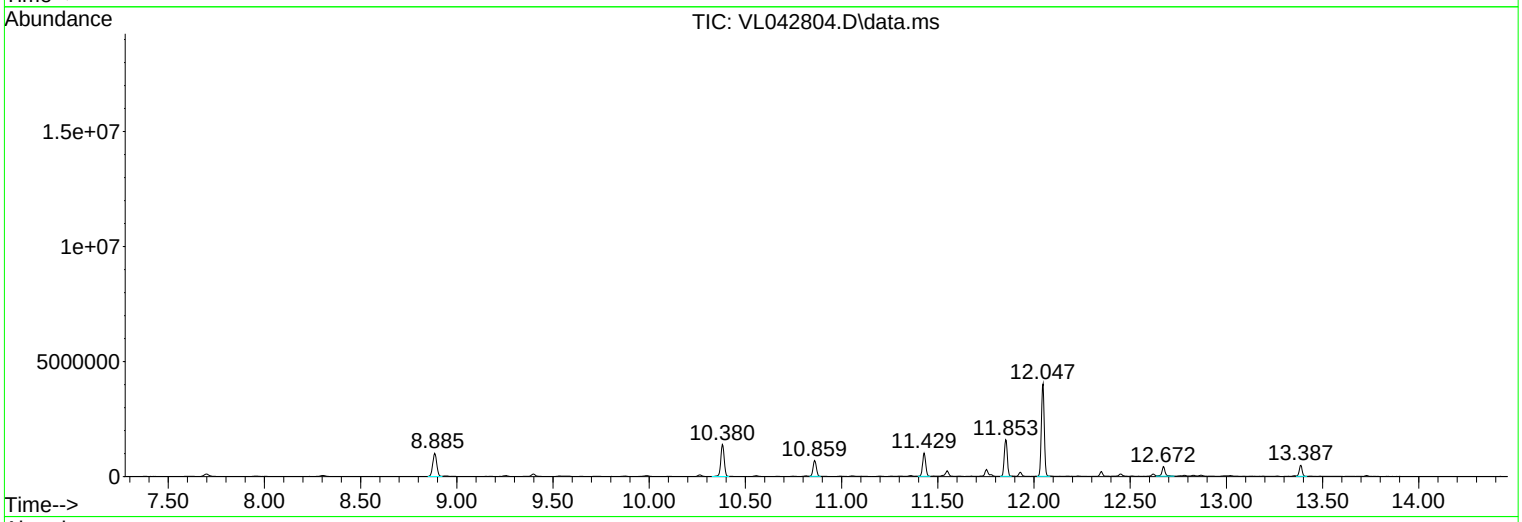
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

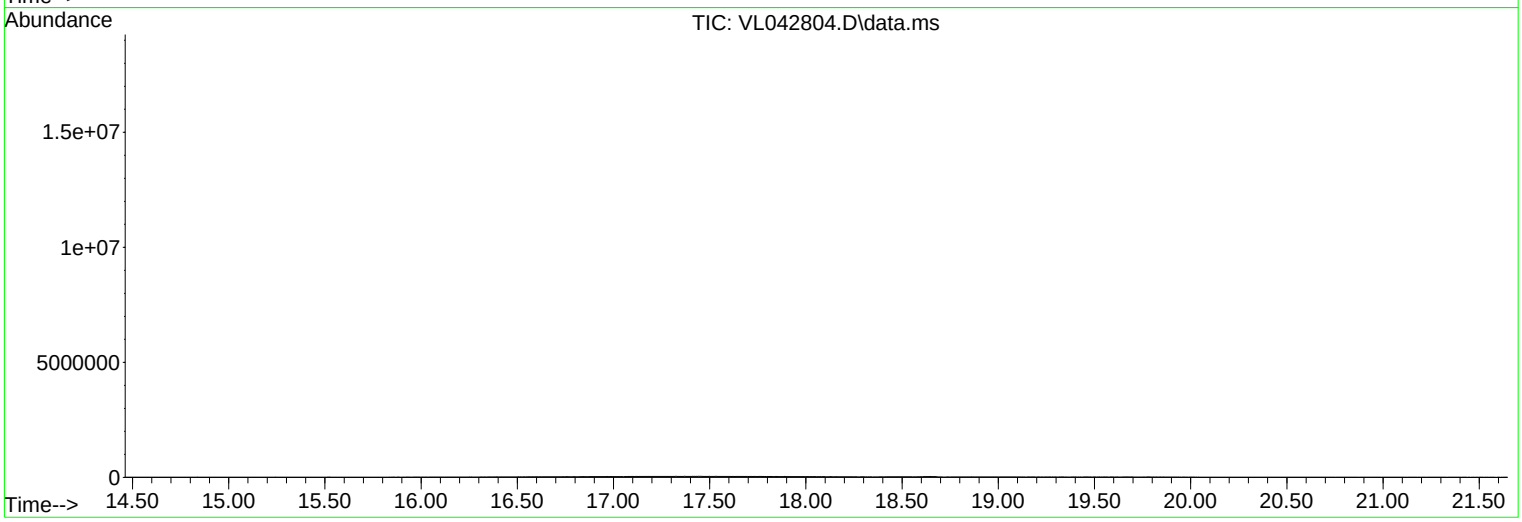
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

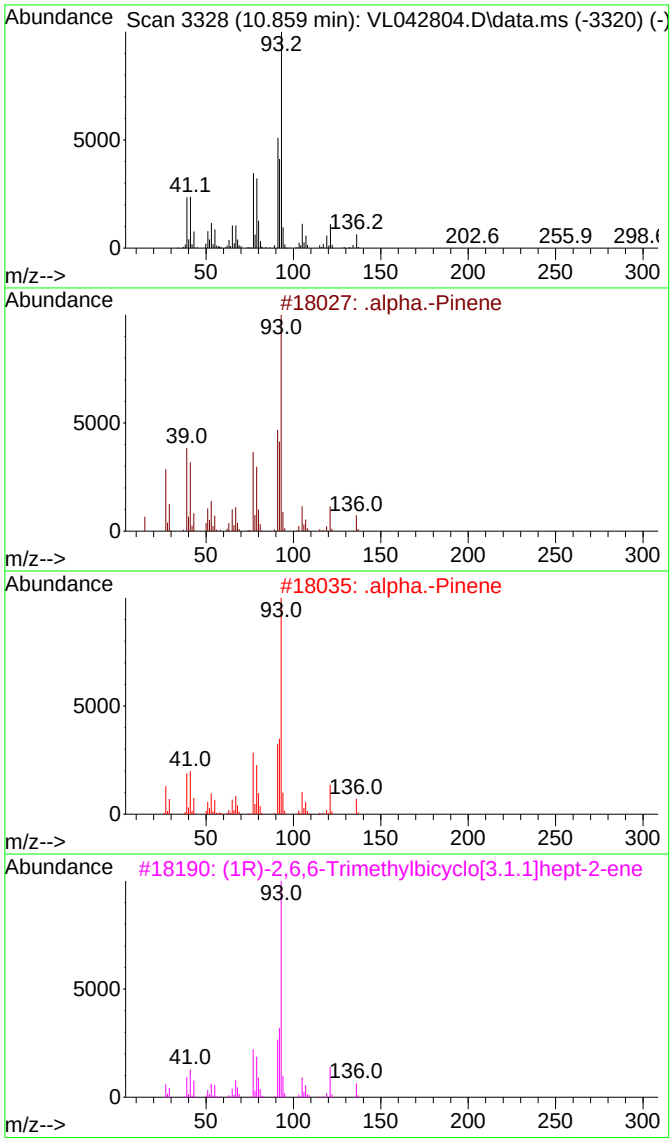
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

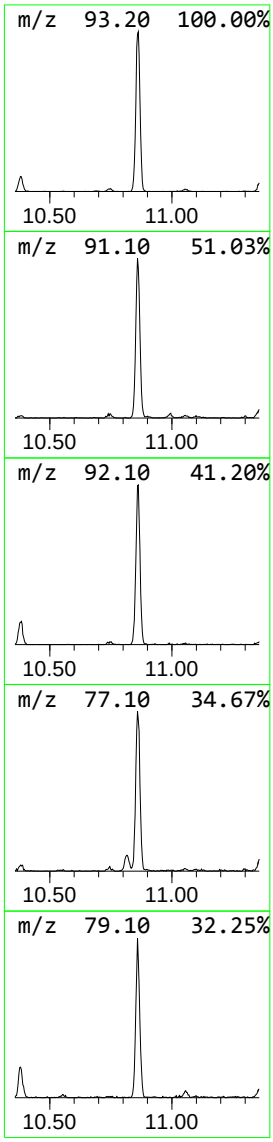
****

Peak Number 1 .alpha.-Pinene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.859	5.59 ppbv	806219	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Pinene	136	C10H16	000080-56-8	95
2	.alpha.-Pinene	136	C10H16	000080-56-8	93
3	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	91
4	4-Carene, (1S,3S,6R)-(-)-	136	C10H16	005208-50-4	91
5	(1S)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-26-4	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

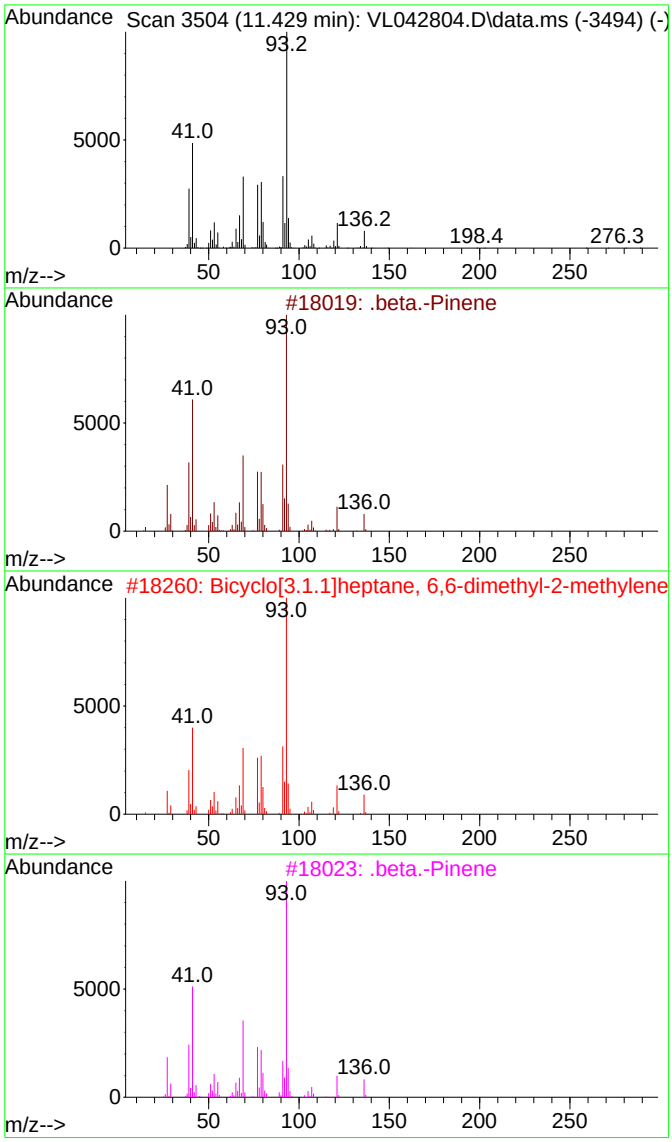
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

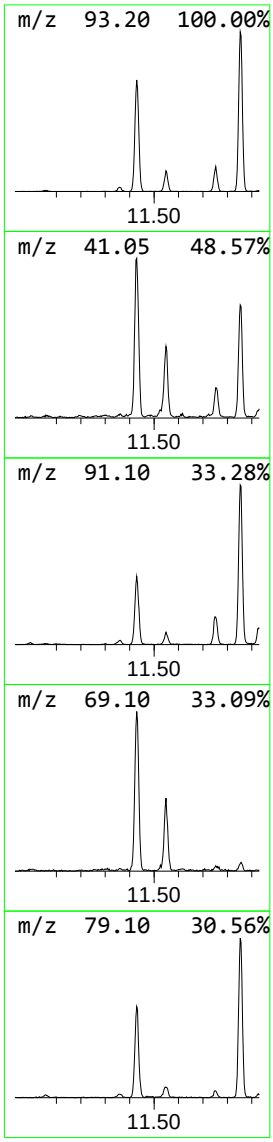
****

Peak Number 2 .beta.-Pinene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.429	7.79 ppbv	1124580	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Pinene	136	C10H16	000127-91-3	96
2	Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	96
3	.beta.-Pinene	136	C10H16	000127-91-3	93
4	Bicyclo[3.1.0]hexane, 4-methylen...	136	C10H16	003387-41-5	91
5	Bicyclo[3.1.0]hexane, 4-methylen...	136	C10H16	003387-41-5	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

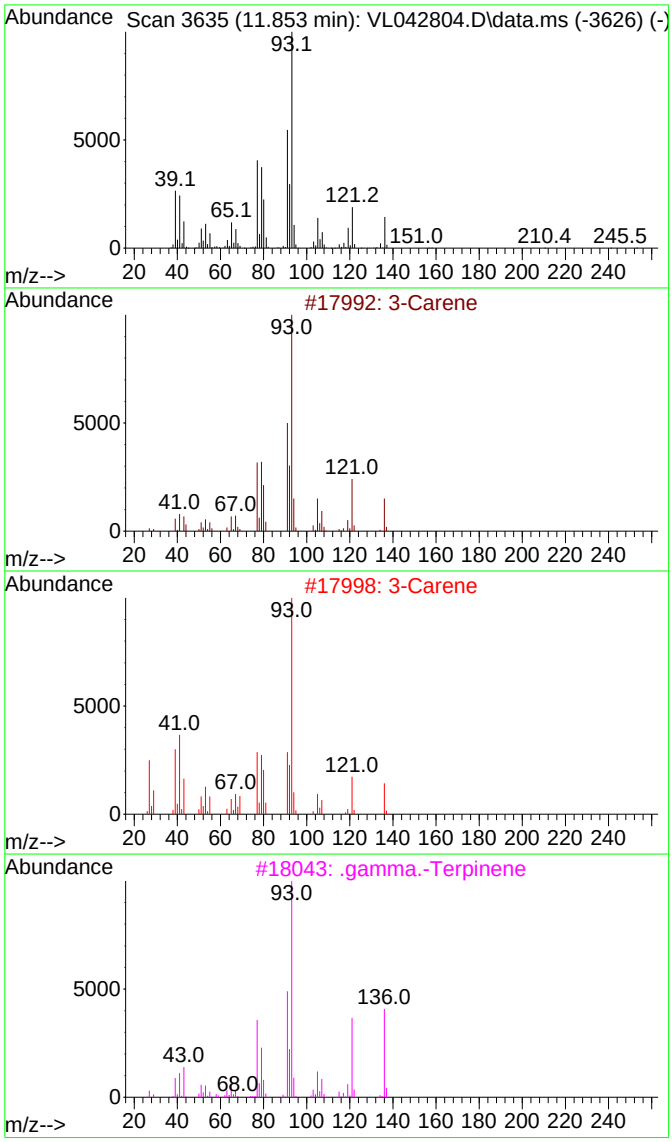
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

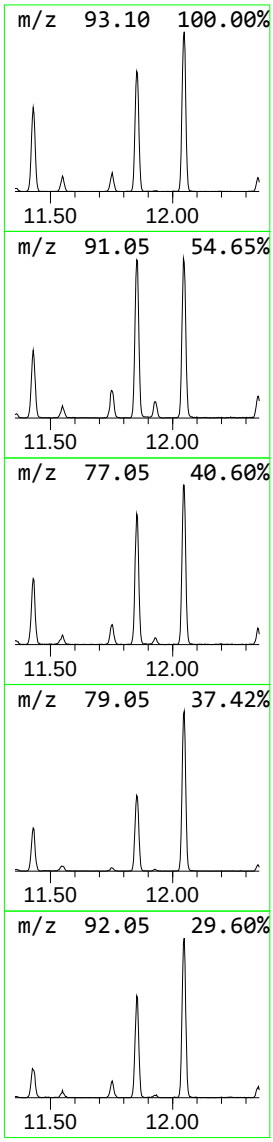
****

Peak Number 3 3-Carene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.853	12.13 ppbv	1750660	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Carene	136	C10H16	013466-78-9	95
2	3-Carene	136	C10H16	013466-78-9	94
3	.gamma.-Terpinene	136	C10H16	000099-85-4	94
4	.alpha.-Phellandrene	136	C10H16	000099-83-2	93
5	.gamma.-Terpinene	136	C10H16	000099-85-4	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

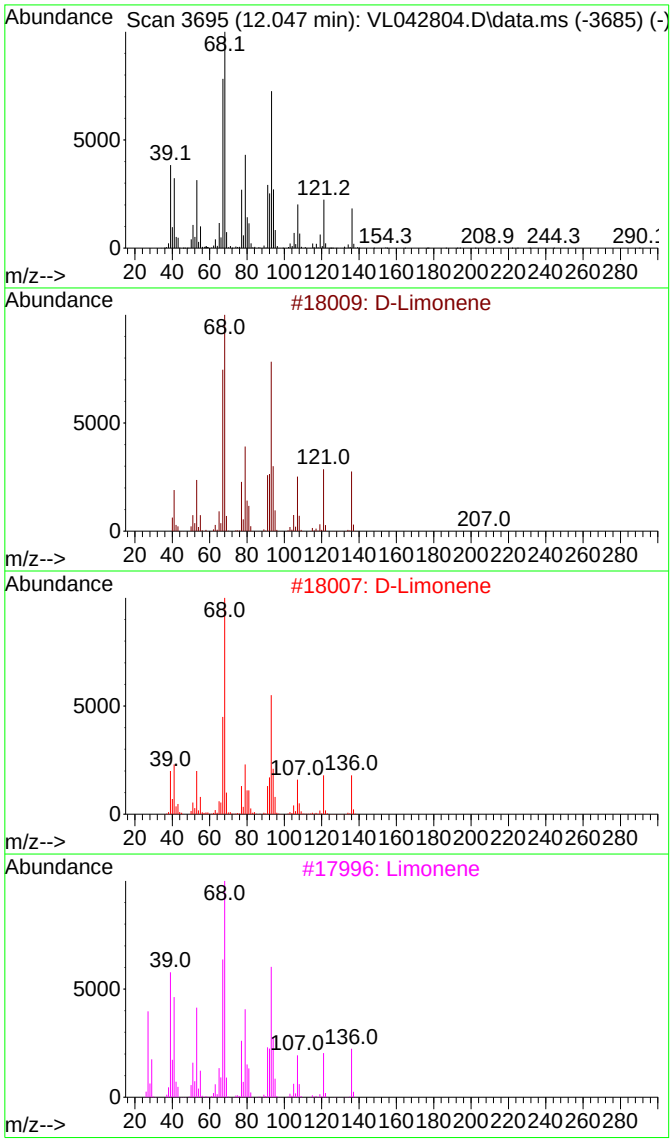
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

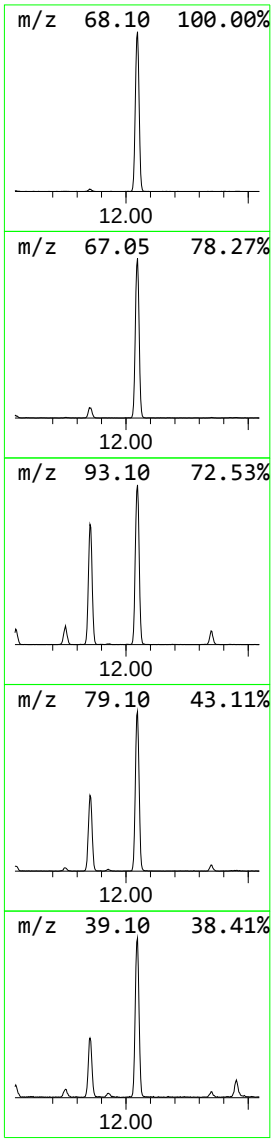
****

Peak Number 4 D-Limonene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.047	29.83 ppbv	4303780	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	98
2	D-Limonene	136	C10H16	005989-27-5	94
3	Limonene	136	C10H16	000138-86-3	94
4	D-Limonene	136	C10H16	005989-27-5	93
5	Limonene	136	C10H16	000138-86-3	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

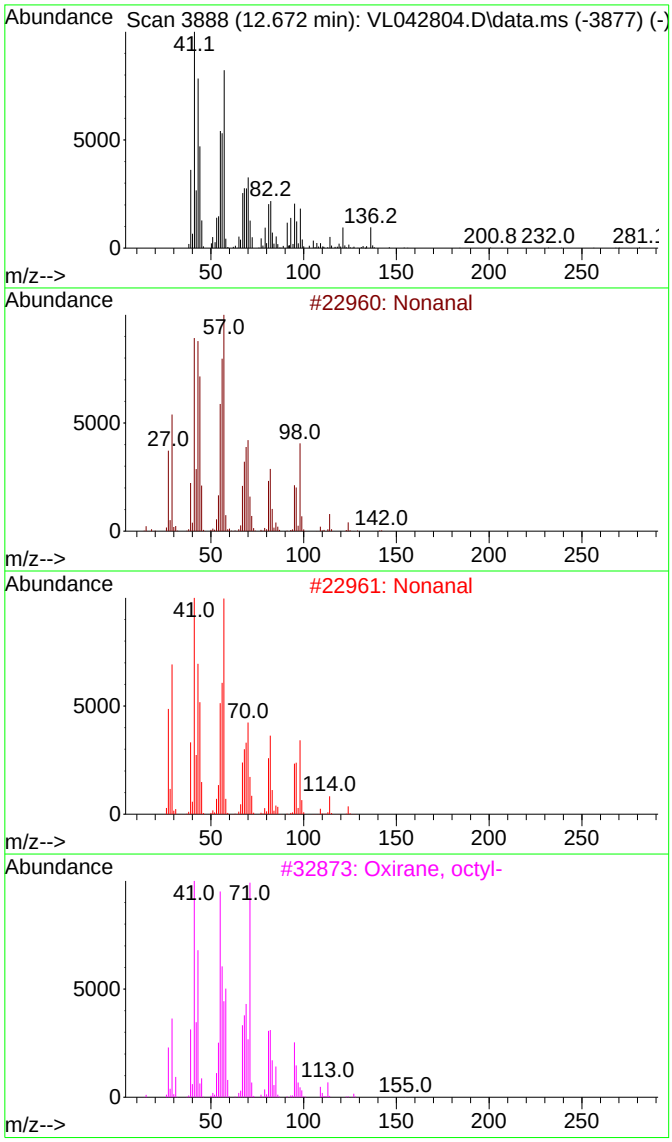
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

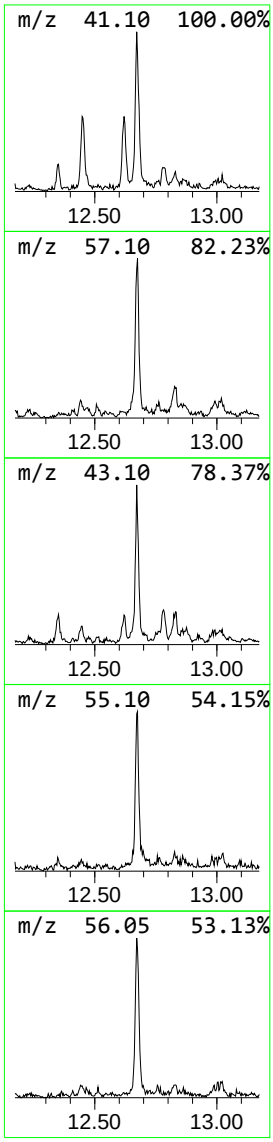
****

Peak Number 5 Nonanal Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.672	3.31 ppbv	477253	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonanal	142	C9H18O	000124-19-6	64
2	Nonanal	142	C9H18O	000124-19-6	64
3	Oxirane, octyl-	156	C10H20O	002404-44-6	27
4	Carbonic acid, heptyl prop-1-en-...	200	C11H20O3	1000382-54-1	22
5	1-Heptene	98	C7H14	000592-76-7	22





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

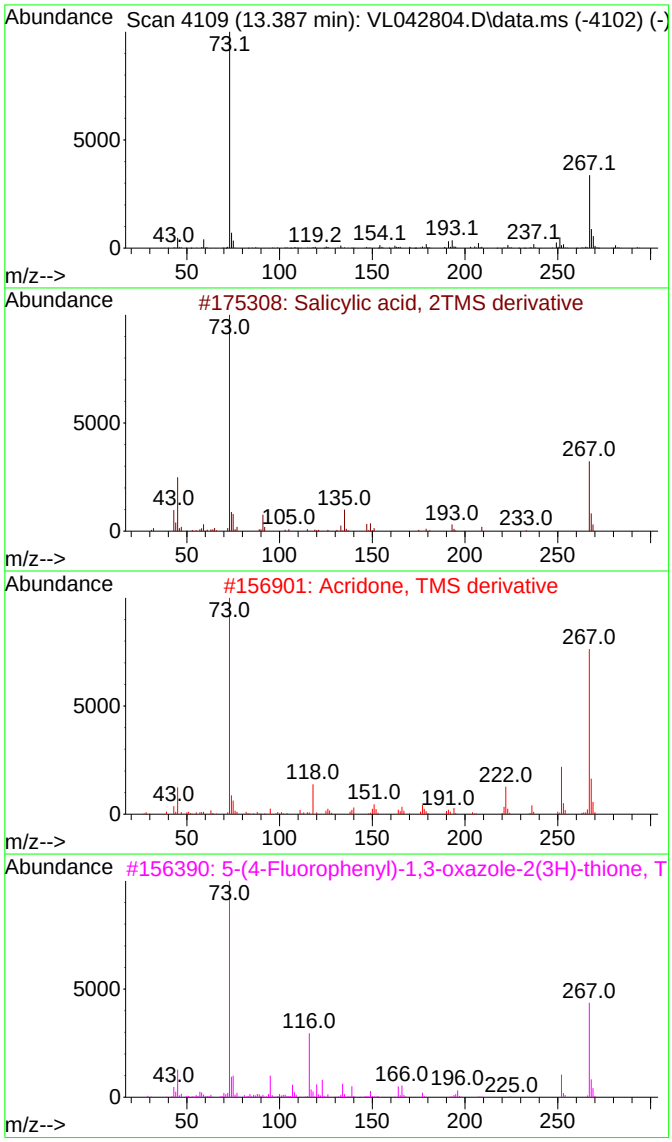
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

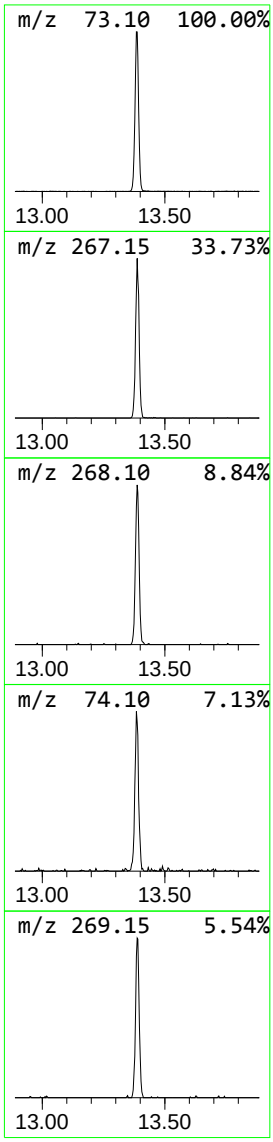
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Salicylic acid, 2TMS deriva... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.387	3.52 ppbv	507775	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	59
2	Acridone, TMS derivative	267	C16H17NOSi	1000478-16-0	53
3	5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	53
4	5-(3-Pyridinyl)-1,3,4-thiadiazol...	267	C10H13N3S2Si	1000471-43-6	42
5	Benzeneethanamine, N-methyl-.bet...	311	C15H29NO2Si2	029522-18-7	39





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
.alpha.-Pinene	10.859	5.6	ppbv	806219	3	8.885	1442860	10.0
.beta.-Pinene	11.429	7.8	ppbv	1124580	3	8.885	1442860	10.0
3-Carene	11.853	12.1	ppbv	1750660	3	8.885	1442860	10.0
D-Limonene	12.047	29.8	ppbv	4303780	3	8.885	1442860	10.0
Nonanal	12.672	3.3	ppbv	477253	3	8.885	1442860	10.0
Salicylic acid,...	13.387	3.5	ppbv	507775	3	8.885	1442860	10.0

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-6DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042816.D	20		08/04/25 21:23	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.20	10.9	UD	10.9	49.5	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.50	1.28	UD	1.28	1.53	ug/m3
74-83-9	Bromomethane	1.50	5.82	UD	5.82	38.8	ug/m3
75-00-3	Chloroethane	3.00	7.92	UD	7.92	26.4	ug/m3
109-99-9	Tetrahydrofuran	1.60	4.72	UD	4.72	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.40	19.1	UD	19.1	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	2.80	21.5	UD	21.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.00	21.0	UD	21.0	69.9	ug/m3
75-65-0	tert-Butyl alcohol	3.20	9.70	UD	9.70	30.3	ug/m3
142-82-5	Heptane	3.40	13.9	UD	13.9	41.0	ug/m3
75-35-4	1,1-Dichloroethene	3.00	11.9	UD	11.9	39.6	ug/m3
67-64-1	Acetone	170	404	D	8.55	23.8	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.60	16.6	UD	16.6	36.0	ug/m3
75-09-2	Methylene Chloride	5.50	19.1	JD	16.0	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	2.40	9.52	UD	9.52	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	1.10	3.24	UD	3.24	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.50	3.15	UD	3.15	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	2.00	7.93	UD	7.93	39.6	ug/m3
67-66-3	Chloroform	1.90	9.28	UD	9.28	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.32	1.75	UD	1.75	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	2.80	13.1	UD	13.1	46.7	ug/m3
71-43-2	Benzene	1.60	5.11	UD	5.11	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.90	7.69	UD	7.69	40.5	ug/m3
79-01-6	Trichloroethene	0.48	2.58	UD	2.58	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.60	12.0	UD	12.0	46.2	ug/m3
75-27-4	Bromodichloromethane	1.30	8.71	UD	8.71	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	3.20	12.1	UD	12.1	37.7	ug/m3
10061-02-6	t-1,3-Dichloropropene	3.00	13.6	UD	13.6	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.20	9.99	UD	9.99	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.60	8.73	UD	8.73	54.6	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-6DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042816.D	20		08/04/25 21:23	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	1.70	14.5	UD	14.5	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.70	13.1	UD	13.1	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	3.80	16.5	UD	16.5	43.4	ug/m3
179601-23-1	m/p-Xylene	8.20	35.6	UD	35.6	86.9	ug/m3
95-47-6	o-Xylene	4.20	18.2	UD	18.2	43.4	ug/m3
100-42-5	Styrene	3.20	13.6	UD	13.6	42.6	ug/m3
75-25-2	Bromoform	0.96	9.93	UD	9.93	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.36	2.47	UD	2.47	4.12	ug/m3
95-49-8	2-Chlorotoluene	3.40	17.6	UD	17.6	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	4.20	31.2	UD	31.2	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	2.60	27.7	UD	27.7	107	ug/m3
106-99-0	1,3-Butadiene	1.00	2.21	UD	2.21	22.1	ug/m3
91-20-3	Naphthalene	0.26	1.36	UD	1.36	10.5	ug/m3
622-96-8	4-Ethyltoluene	4.20	20.6	UD	20.6	49.2	ug/m3
110-54-3	Hexane	3.20	11.3	UD	11.3	35.2	ug/m3
107-05-1	Allyl Chloride	2.20	6.89	UD	6.89	31.3	ug/m3
123-91-1	1,4-Dioxane	4.40	15.9	UD	15.9	36.0	ug/m3
80-62-6	Methyl Methacrylate	2.80	11.5	UD	11.5	41.0	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			70 (65) - 130 (135)	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	149000		2.787			
540-36-3	1,4-Difluorobenzene	387000		3.959			
3114-55-4	Chlorobenzene-d5	330000		8.882			

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-6DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042816.D	20		08/04/25 21:23	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042816.D
Acq On : 04 Aug 2025 21:23
Operator : SY/MD
Sample : Q2750-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:13:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	149392	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	386690	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	329987	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	255046	9.760	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.600%				
Target Compounds							Qvalue
3) Chlorodifluoromethane	1.473	51	125546	4.879	ppbv		99
9) Propene	1.486	41	8957m	0.958	ppbv		
13) Ethanol	1.722	45	266265	389.889	ppbv		89
15) Acetone	1.835	43	173387	8.405	ppbv		99
19) Isopropyl Alcohol	1.897	45	4676481	426.595	ppbv	#	40
20) Methylene Chloride	2.065	84	1787	0.275	ppbv	#	75

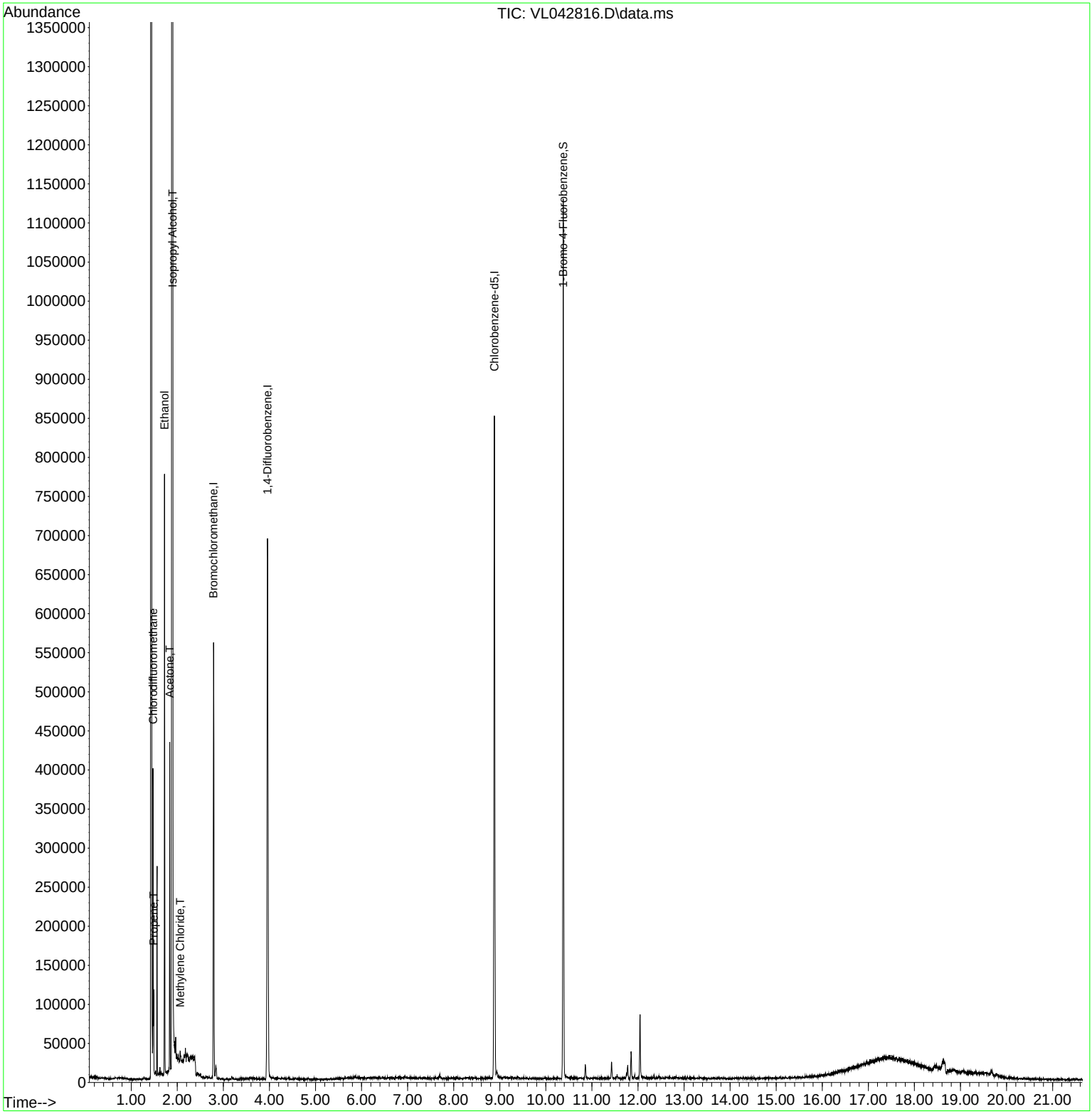
(#) = qualifier out of range (m) = manual integration (+) = signals summed

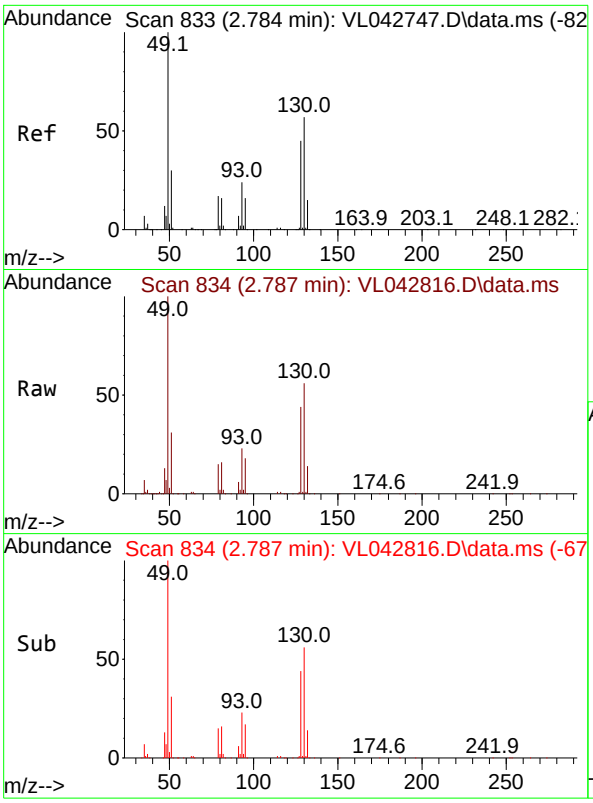
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042816.D
Acq On : 04 Aug 2025 21:23
Operator : SY/MD
Sample : Q2750-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:13:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

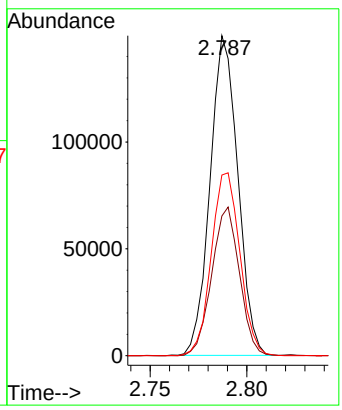




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 49 Resp: 14939

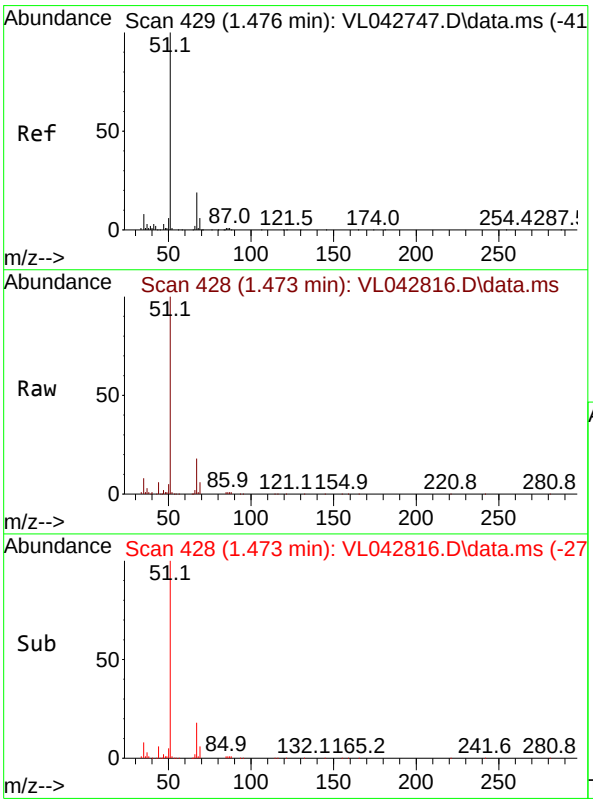
Ion	Ratio	Lower	Upper
49	100		
128	46.4	23.6	71.0
130	58.8	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Manual Integrations
APPROVED

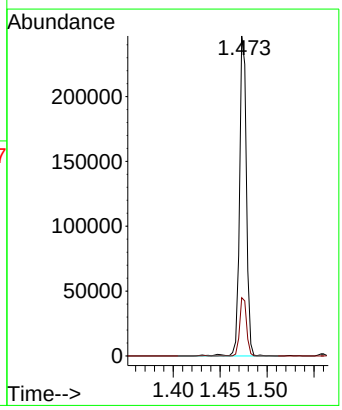
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

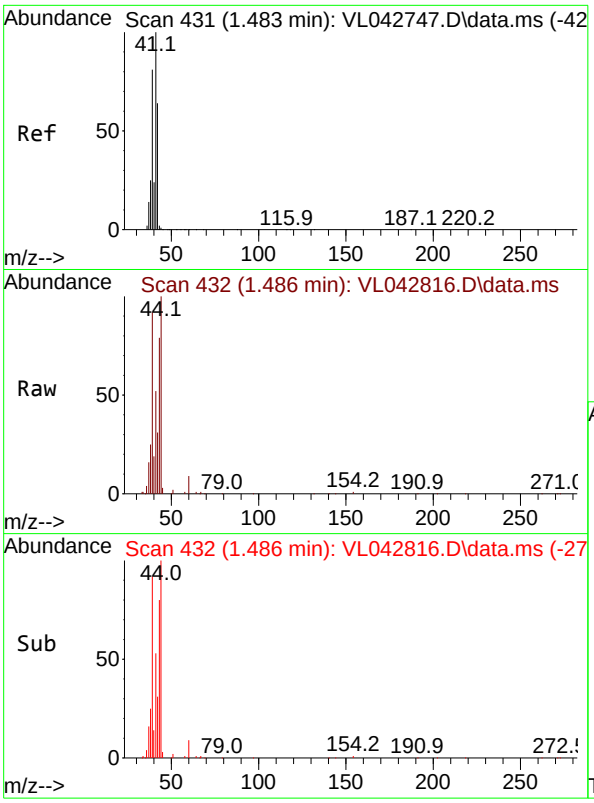


#3
Chlorodifluoromethane
Concen: 4.879 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 51 Resp: 125546

Ion	Ratio	Lower	Upper
51	100		
67	18.2	15.0	22.6

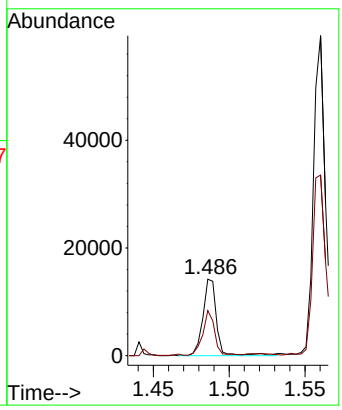




#9
Propene
Concen: 0.958 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 41 Resp: 895

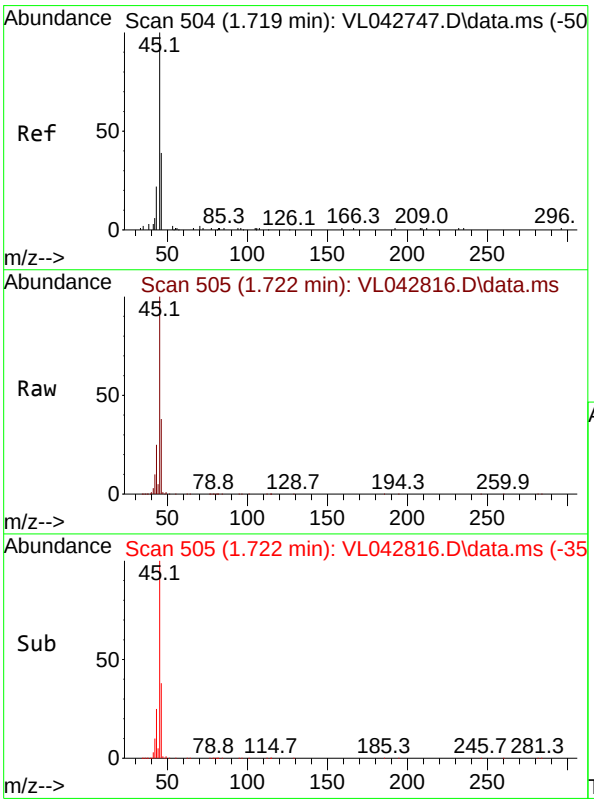
Ion	Ratio	Lower	Upper
41	100		
42	8603.4	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Manual Integrations
APPROVED

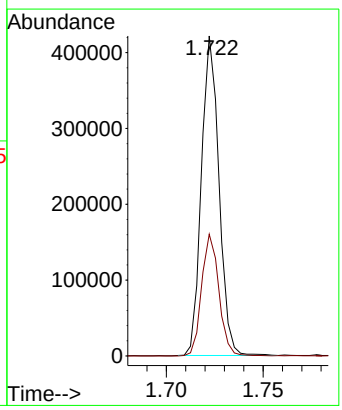
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

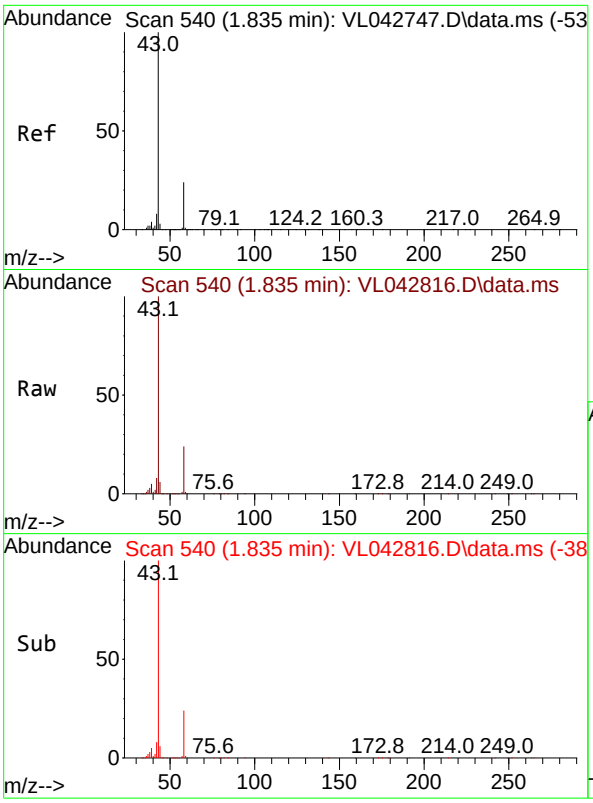


#13
Ethanol
Concen: 389.889 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 45 Resp: 266265

Ion	Ratio	Lower	Upper
45	100		
46	37.7	17.8	71.4

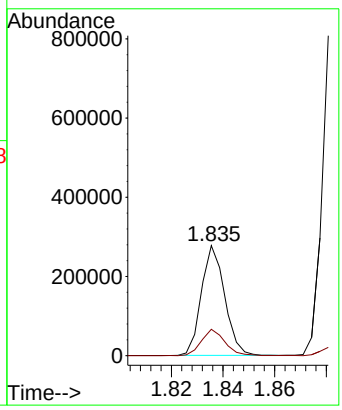




#15
Acetone
Concen: 8.405 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 43 Resp: 17338

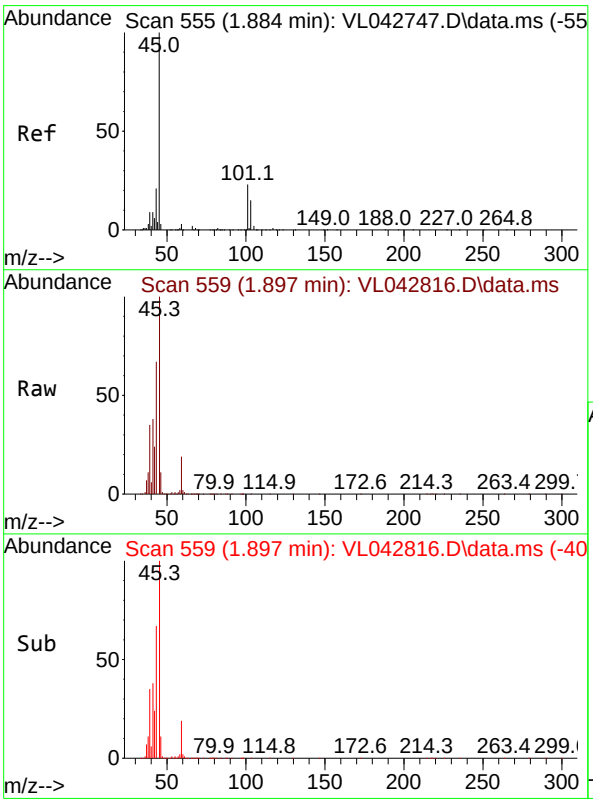
Ion	Ratio	Lower	Upper
43	100		
58	24.5	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Manual Integrations
APPROVED

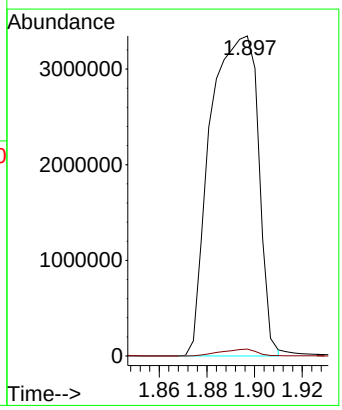
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

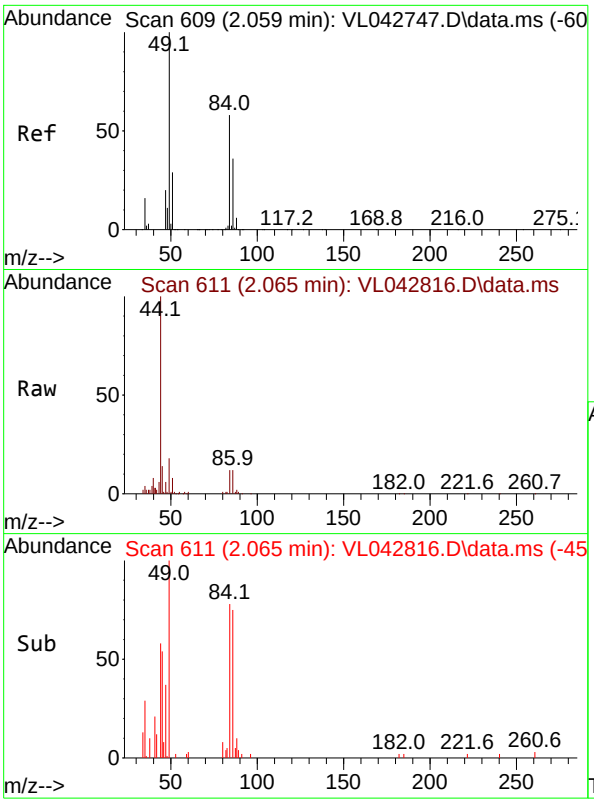


#19
Isopropyl Alcohol
Concen: 426.595 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.013 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 45 Resp: 4676481

Ion	Ratio	Lower	Upper
45	100		
58	1.6	30.0	45.0#

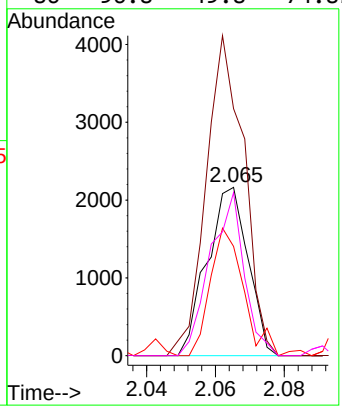




#20
Methylene Chloride
Concen: 0.275 ppbv
RT: 2.065 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 84 Resp: 178

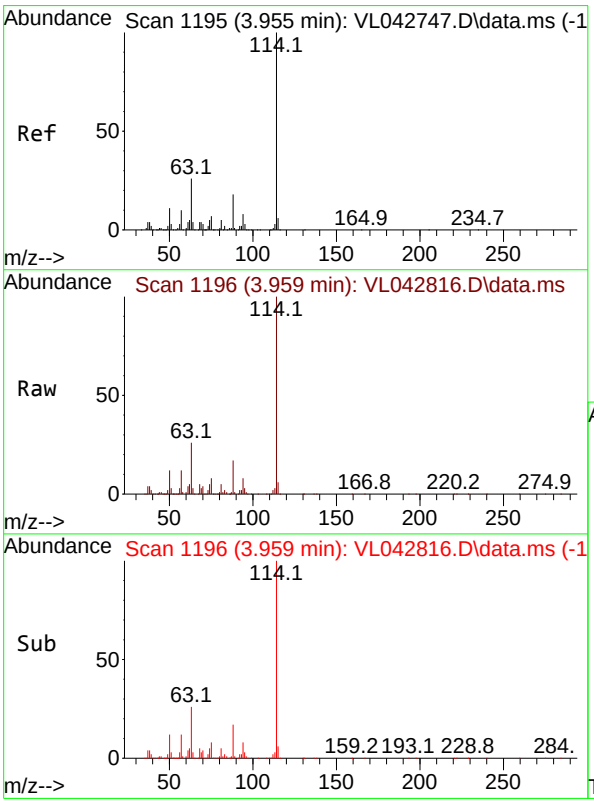
Ion	Ratio	Lower	Upper
84	100		
49	146.7	138.6	208.0
51	64.9	40.6	61.0#
86	96.8	49.8	74.8#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Manual Integrations
APPROVED

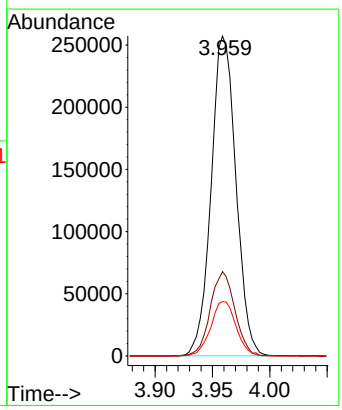
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

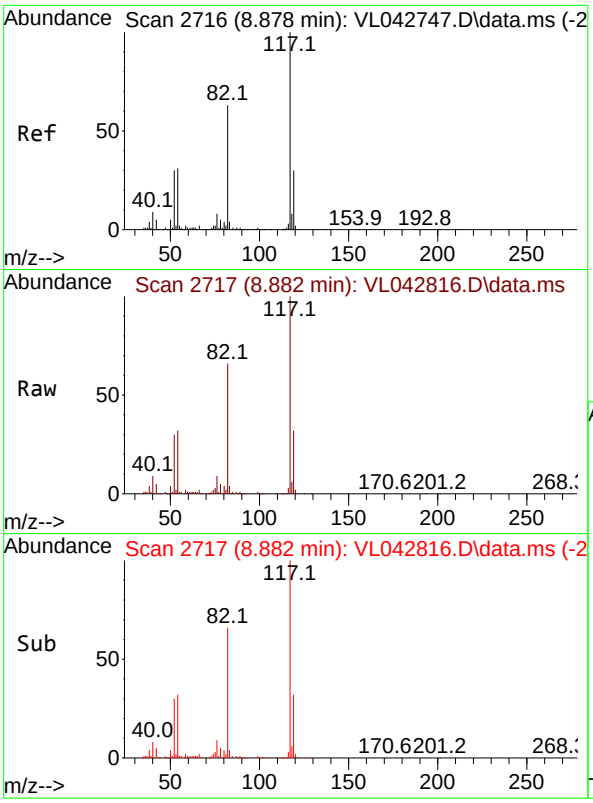


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion:114 Resp: 386690

Ion	Ratio	Lower	Upper
114	100		
63	26.3	20.5	30.7
88	17.3	14.0	21.0

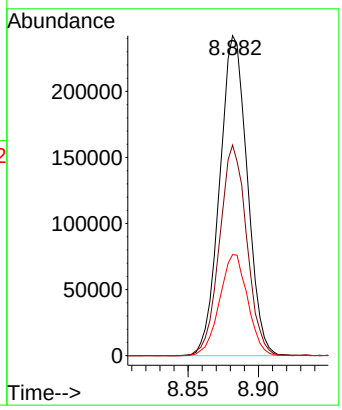




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion:117 Resp: 32998

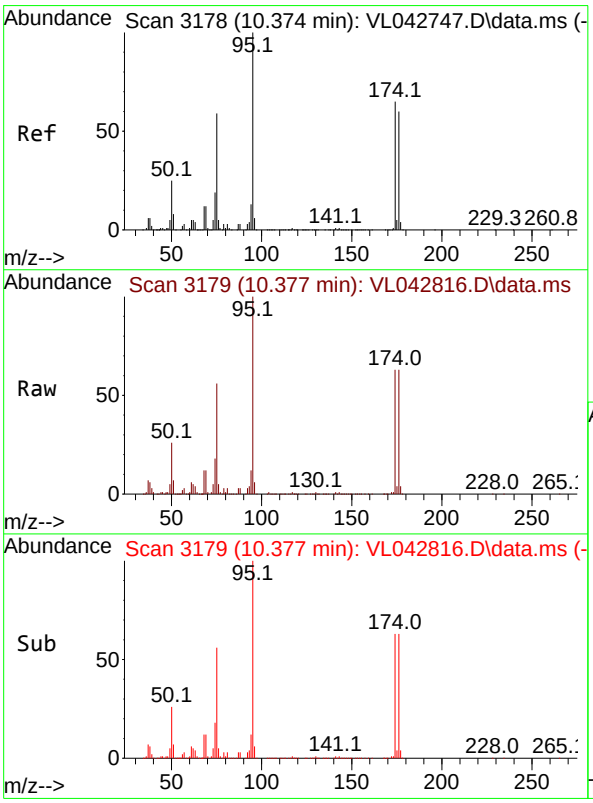
Ion	Ratio	Lower	Upper
117	100		
82	65.0	53.3	79.9
119	32.2	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Manual Integrations
APPROVED

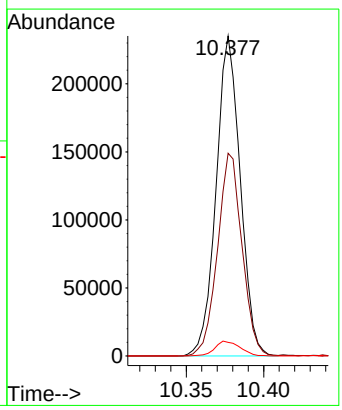
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.760 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 95 Resp: 255046

Ion	Ratio	Lower	Upper
95	100		
174	64.6	53.8	80.6
175	4.8	4.0	6.0



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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-7	SDG No.:	Q2750
Lab Sample ID:	Q2750-06	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042805.D	1		08/04/25 15:10	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.58	2.87		0.54	2.47	ug/m3
74-87-3	Chloromethane	0.74	1.53		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.22	1.24	J	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	98.7	234	E	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	2.80	8.72		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	2.20	7.64		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.98	2.89		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.57	2.78		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.27	0.86	J	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.69	2.60		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-7	SDG No.:	Q2750
Lab Sample ID:	Q2750-06	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042805.D	1		08/04/25 15:10	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	J	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	1.90	6.70		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			70 (65) - 130 (135)	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	164000		2.79			
540-36-3	1,4-Difluorobenzene	468000		3.959			
3114-55-4	Chlorobenzene-d5	404000		8.885			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	52.6		J		1.47	ppbv
115-07-1	Propene	17.2		J		1.49	ppbv
64-17-5	Ethanol	5900		J		1.73	ppbv

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-7	SDG No.:	Q2750
Lab Sample ID:	Q2750-06	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042805.D	1		08/04/25 15:10	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	2100		J		1.98	ppbv
141-78-6	Ethyl Acetate	4.60		J		2.84	ppbv
000080-56-8	.alpha.-Pinene	4.20		J		10.9	ppbv
018172-67-3	Bicyclo[3.1.1]heptane, 6,6-dimethy	5.80		J		11.4	ppbv
013466-78-9	3-Carene	8.60		J		11.9	ppbv
99-87-6	p-Isopropyltoluene	0.56		J		11.9	ppbv
005989-27-5	D-Limonene	20.6		J		12.0	ppbv

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\VL080425\
Data File : VL042805.D
Acq On : 04 Aug 2025 15:10
Operator : SY/MD
Sample : Q2750-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:06:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	163694	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	467931	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	403577	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	336326	10.523	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	12549	0.580	ppbv		97
3) Chlorodifluoromethane	1.473	51	1482669	52.589	ppbv	#	87
4) Chloromethane	1.531	50	6460	0.738	ppbv		98
9) Propene	1.486	41	175928m	17.169	ppbv		
11) Trichlorofluoromethane	1.878	101	4845m	0.217	ppbv		
13) Ethanol	1.729	45	4402737	5899.855	ppbv		93
15) Acetone	1.835	43	2230155	98.664	ppbv	#	80
19) Isopropyl Alcohol	1.984	45	24879275m	2071.234	ppbv		
20) Methylene Chloride	2.065	84	15760	2.213	ppbv		97
25) Ethyl Acetate	2.842	43	229501m	4.587	ppbv		
26) Hexane	2.826	57	40934	1.865	ppbv	#	1
27) Carbon Disulfide	2.149	76	53193	2.831	ppbv	#	66
29) Chloroform	2.852	83	19399	0.572	ppbv		85
34) 2-Butanone	2.567	43	32492	0.980	ppbv		97
35) Carbon Tetrachloride	3.761	117	2301m	0.066	ppbv		
36) Benzene	3.654	78	12134	0.274	ppbv	#	95
44) 2,2,4-Trimethylpentane	4.635	57	7228m	0.100	ppbv		
53) Toluene	6.933	91	33005	0.693	ppbv		100
59) m/p-Xylene	9.529	91	10128	0.199	ppbv		100
61) Styrene	9.872	104	3389	0.158	ppbv	#	86
69) p-Isopropyltoluene	11.927	119	43073	0.557	ppbv		97

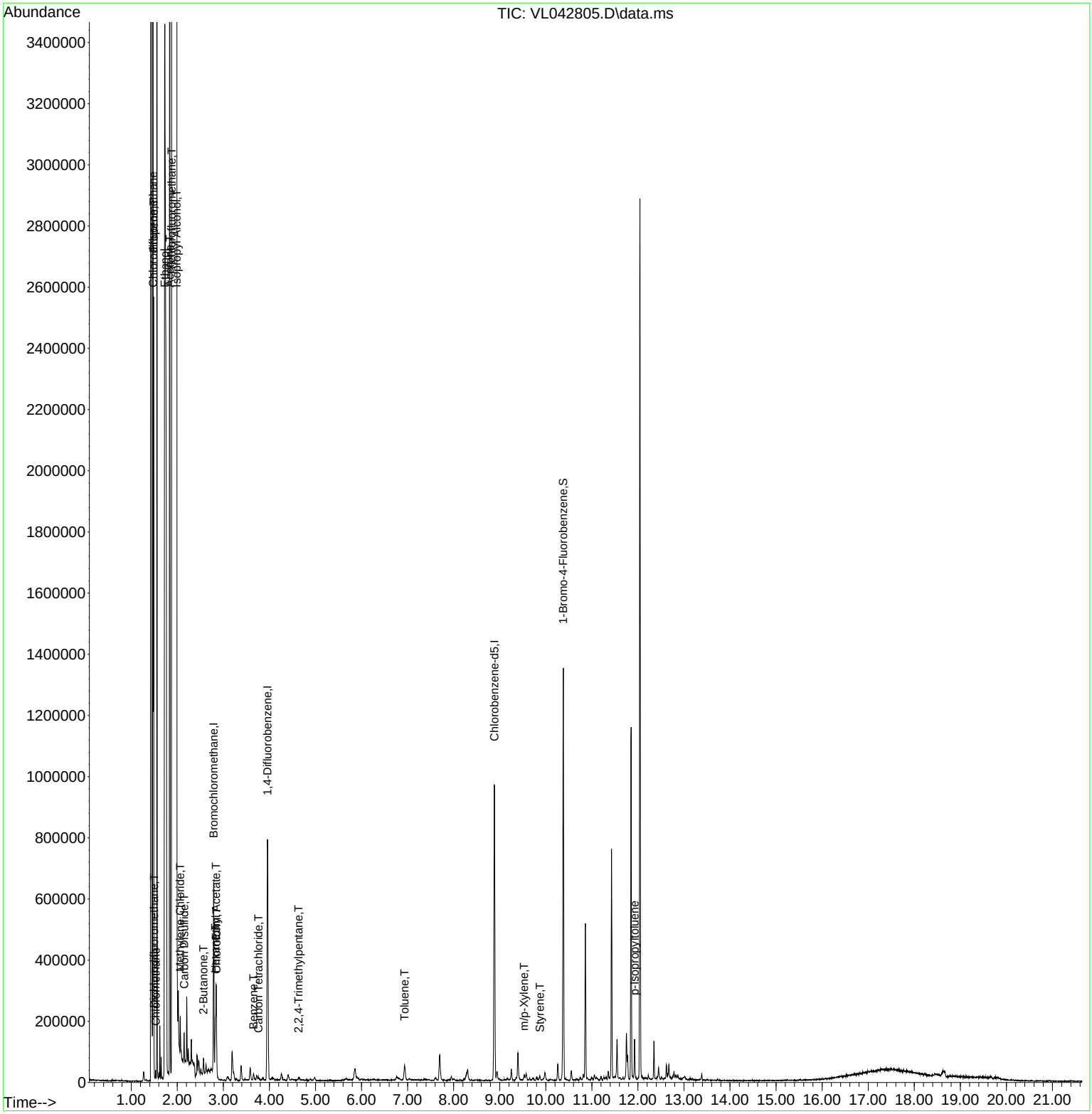
(#) = qualifier out of range (m) = manual integration (+) = signals summed

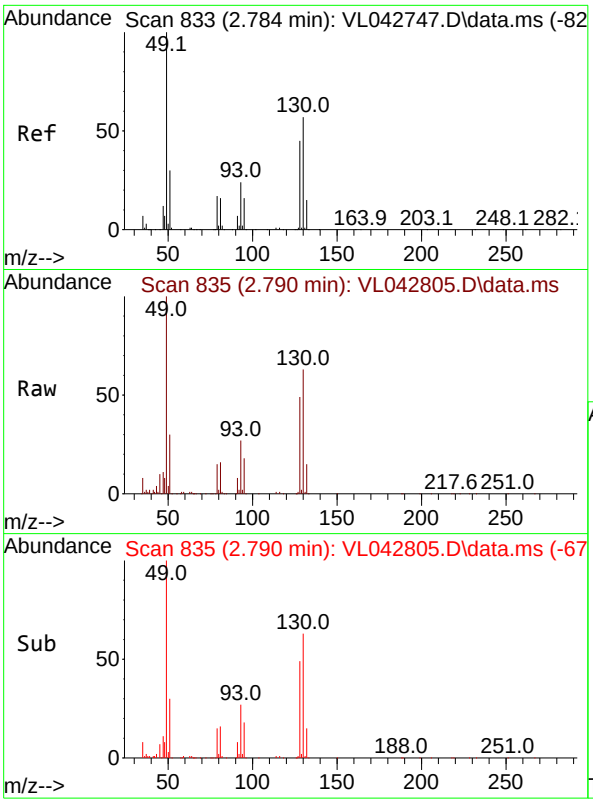
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042805.D
Acq On : 04 Aug 2025 15:10
Operator : SY/MD
Sample : Q2750-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:06:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

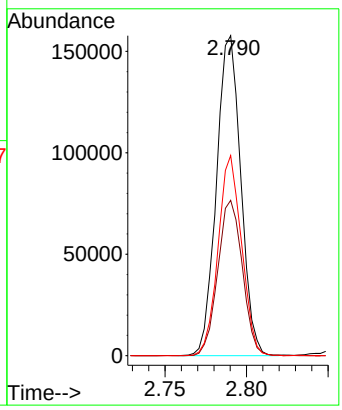




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 49 Resp: 16369

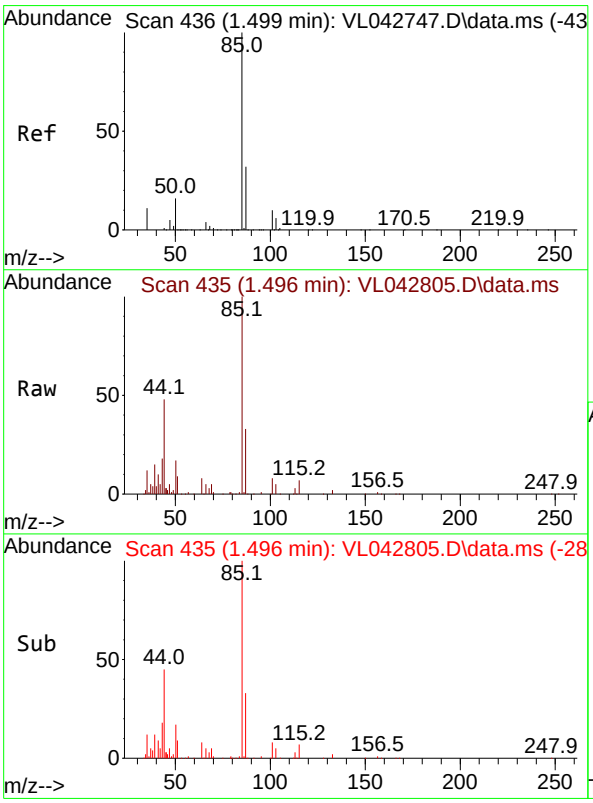
Ion	Ratio	Lower	Upper
49	100		
128	49.0	23.6	71.0
130	60.2	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations
APPROVED

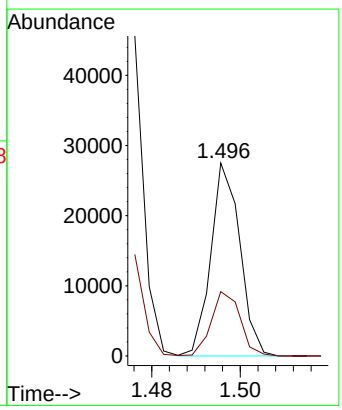
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

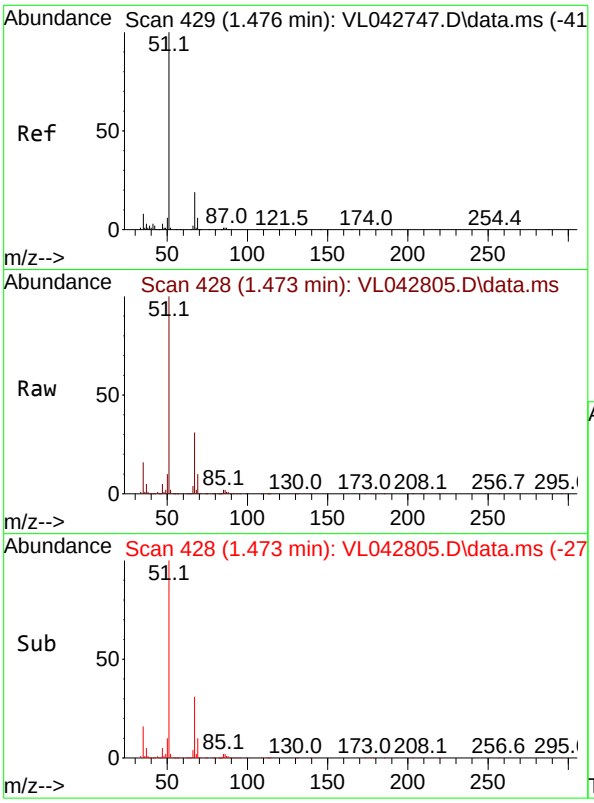


#2
Dichlorodifluoromethane
Concen: 0.580 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 85 Resp: 12549

Ion	Ratio	Lower	Upper
85	100		
87	33.3	25.4	38.2

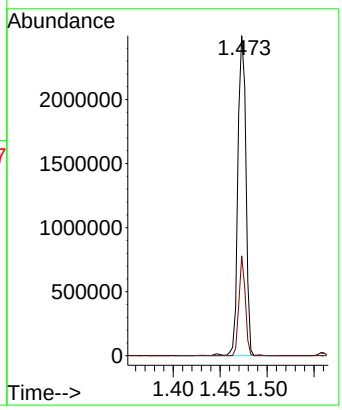




#3
Chlorodifluoromethane
Concen: 52.589 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 51 Resp: 148266

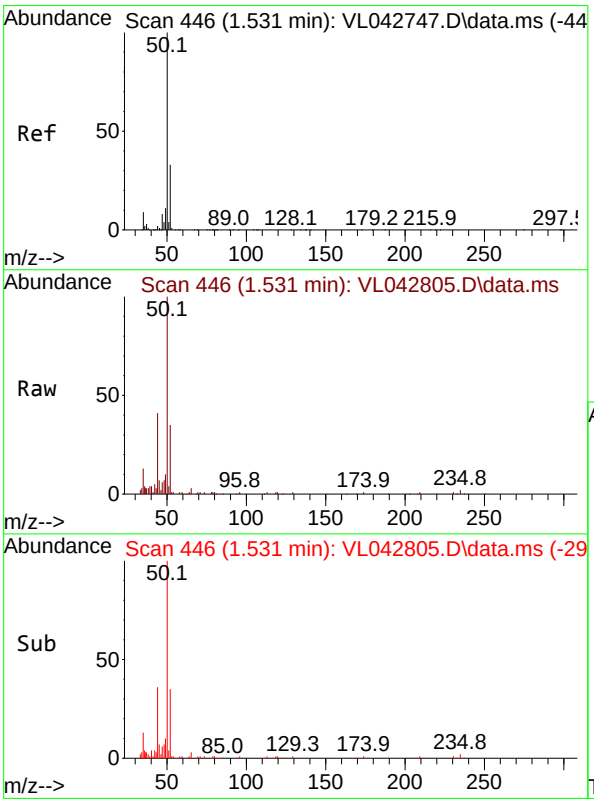
Ion	Ratio	Lower	Upper
51	100		
67	24.7	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations
APPROVED

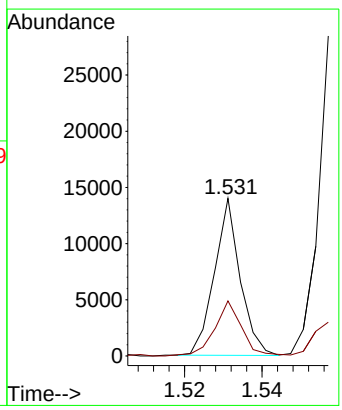
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

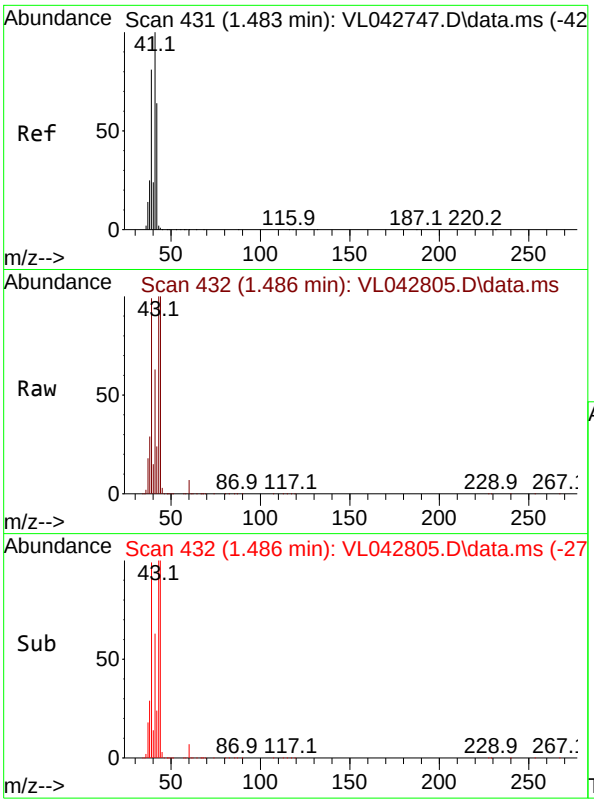


#4
Chloromethane
Concen: 0.738 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 50 Resp: 6460

Ion	Ratio	Lower	Upper
50	100		
52	34.3	26.6	40.0

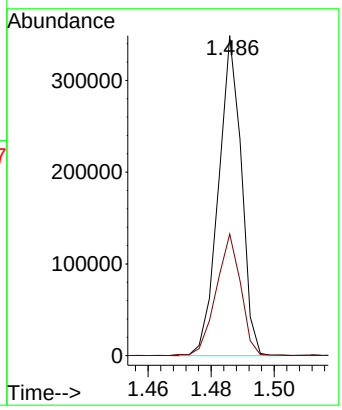




#9
Propene
Concen: 17.169 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 41 Resp: 17592

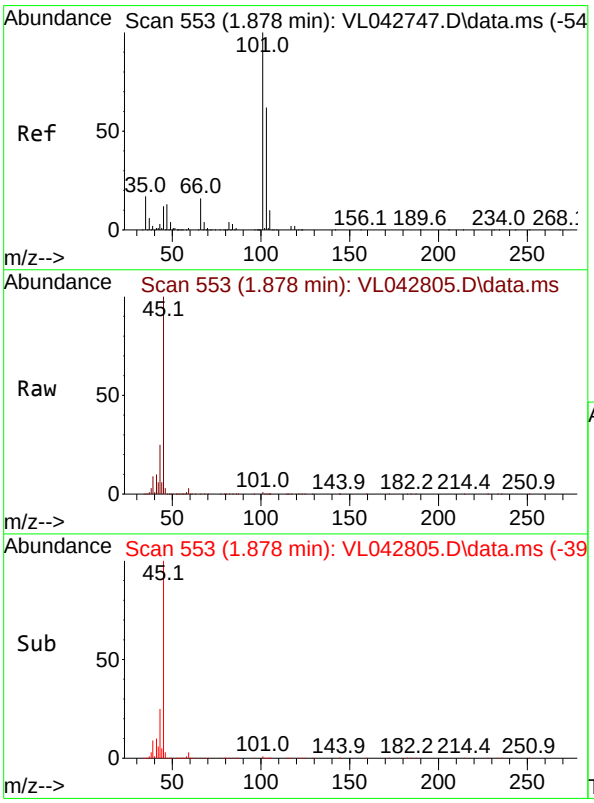
Ion	Ratio	Lower	Upper
41	100		
42	238.7	53.2	79.8#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations
APPROVED

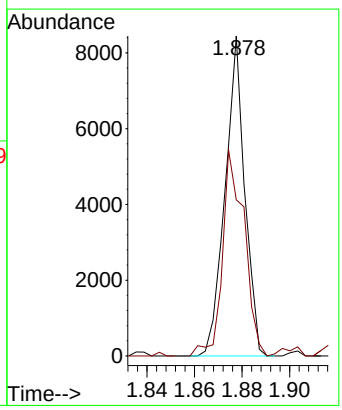
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

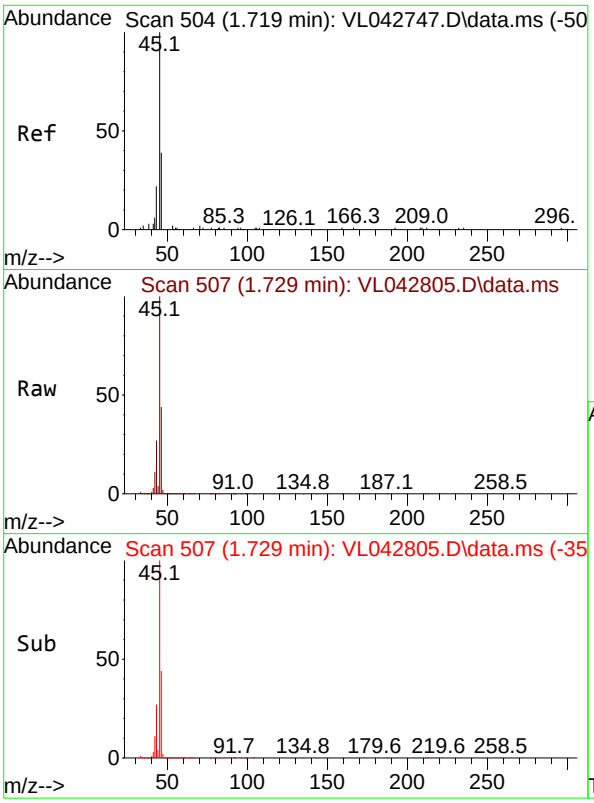


#11
Trichlorofluoromethane
Concen: 0.217 ppbv m
RT: 1.878 min Scan# 553
Delta R.T. 0.000 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion:101 Resp: 4845

Ion	Ratio	Lower	Upper
101	100		
103	48.8	49.6	74.4#

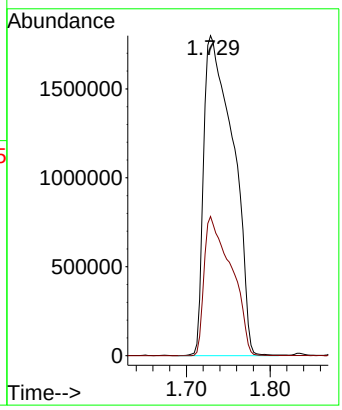




#13
Ethanol
Concen: 5899.855 ppbv
RT: 1.729 min Scan# 5
Delta R.T. 0.010 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 45 Resp: 440273

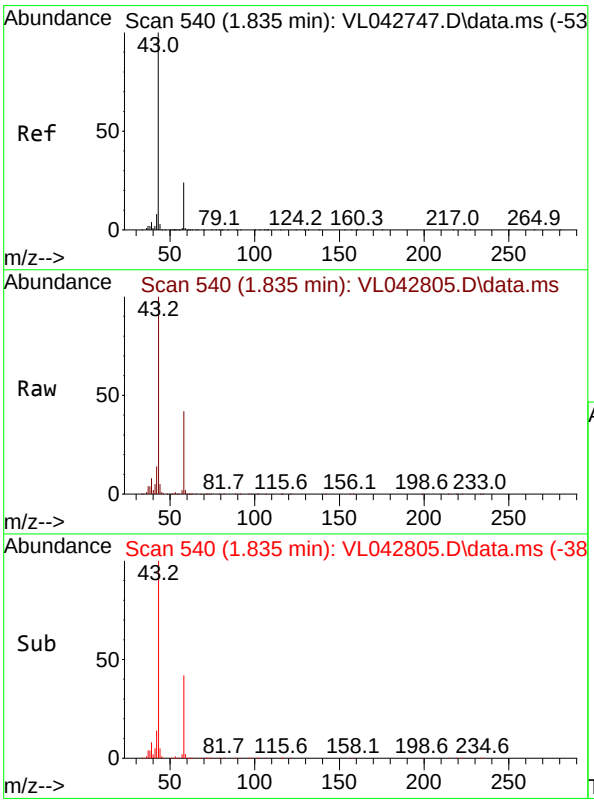
Ion	Ratio	Lower	Upper
45	100		
46	40.3	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations
APPROVED

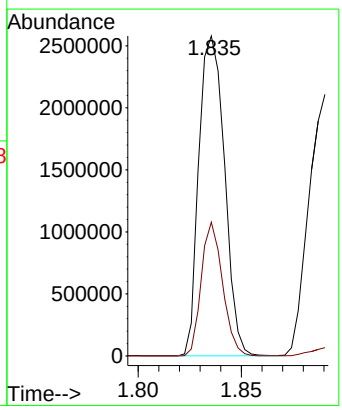
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

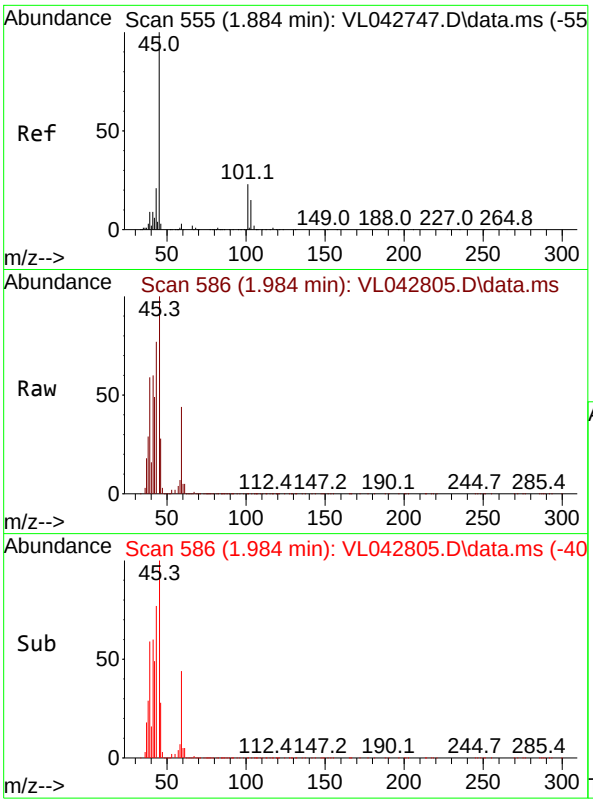


#15
Acetone
Concen: 98.664 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 43 Resp: 2230155

Ion	Ratio	Lower	Upper
43	100		
58	34.7	19.8	29.8#

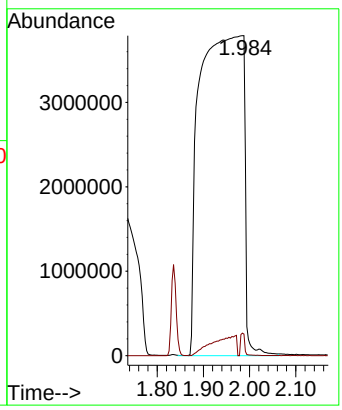




#19
Isopropyl Alcohol
Concen: 2071.234 ppbv m
RT: 1.984 min Scan# 5
Delta R.T. 0.100 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 45 Resp:2487927

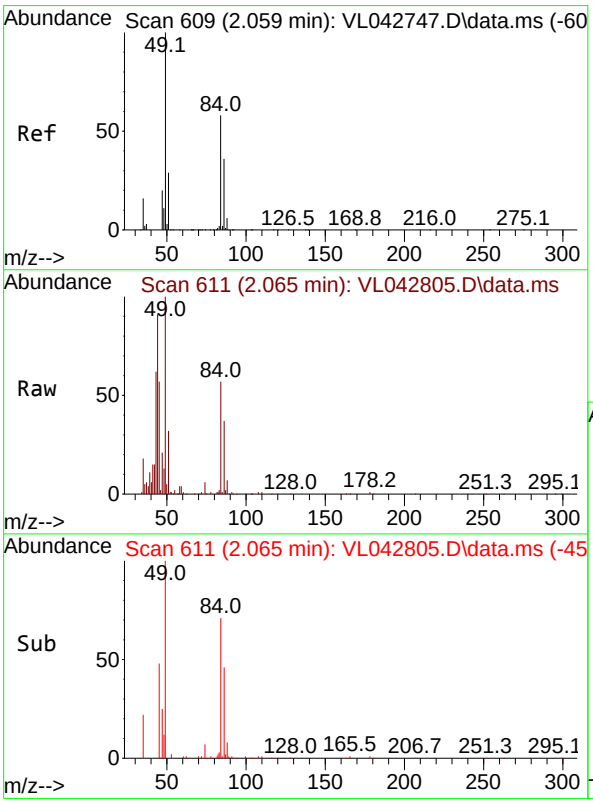
Ion	Ratio	Lower	Upper
45	100		
58	3.5	30.0	45.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations
APPROVED

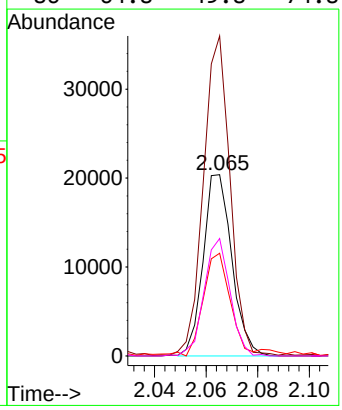
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

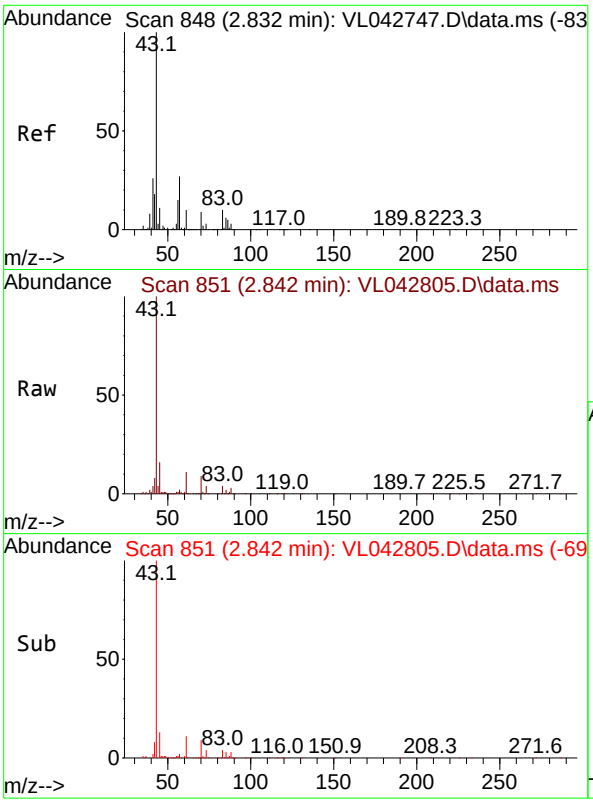


#20
Methylene Chloride
Concen: 2.213 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 84 Resp: 15760

Ion	Ratio	Lower	Upper
84	100		
49	176.0	138.6	208.0
51	54.6	40.6	61.0
86	64.8	49.8	74.8

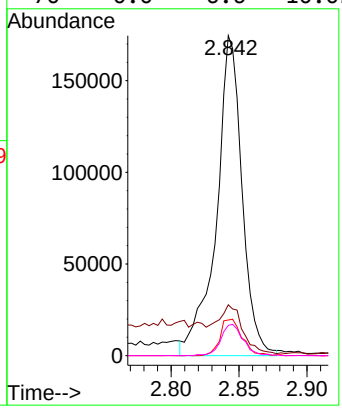




#25
Ethyl Acetate
Concen: 4.587 ppbv m
RT: 2.842 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 43 Resp: 22950

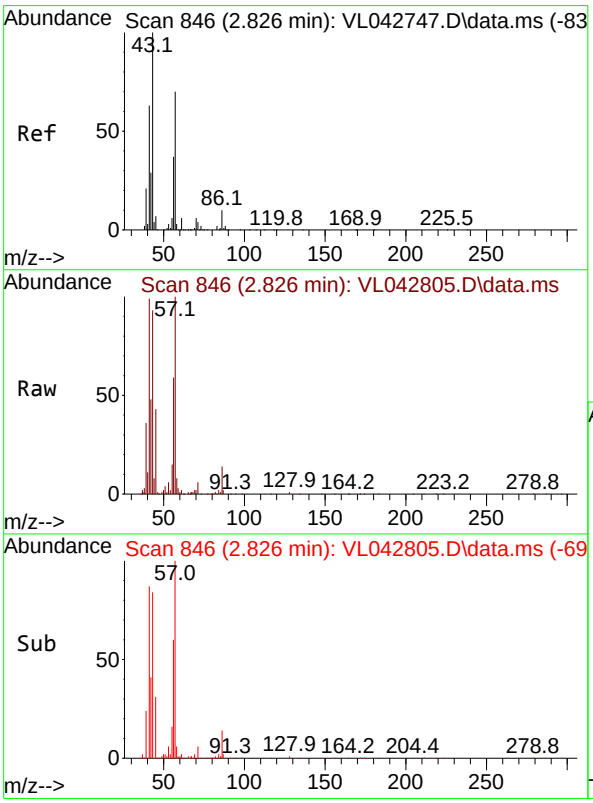
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	6.7	10.1#
70	0.0	6.6	10.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations
APPROVED

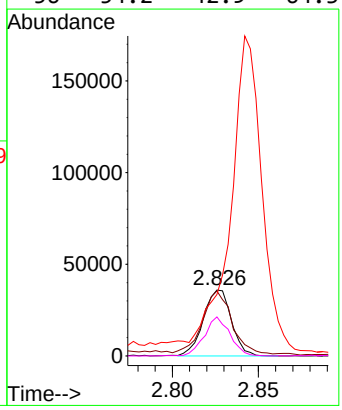
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

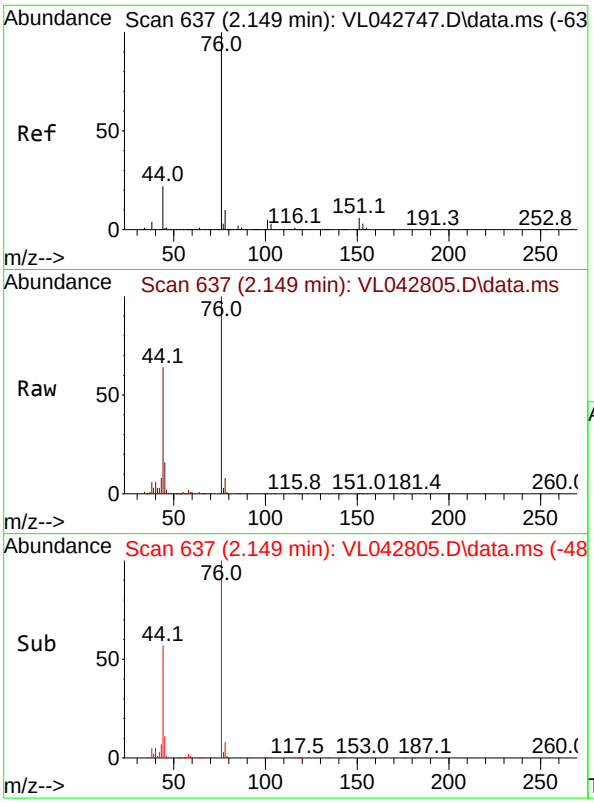


#26
Hexane
Concen: 1.865 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 57 Resp: 40934

Ion	Ratio	Lower	Upper
57	100		
41	116.8	75.4	113.2#
43	611.7	185.0	277.6#
56	54.2	42.9	64.3





#27
Carbon Disulfide
Concen: 2.831 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

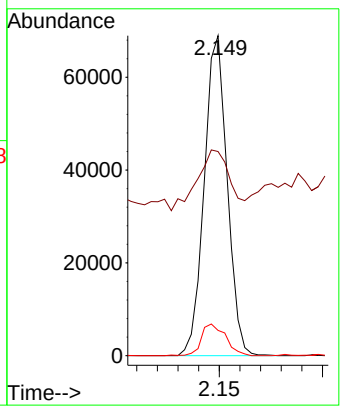
Tgt Ion: 76 Resp: 5319

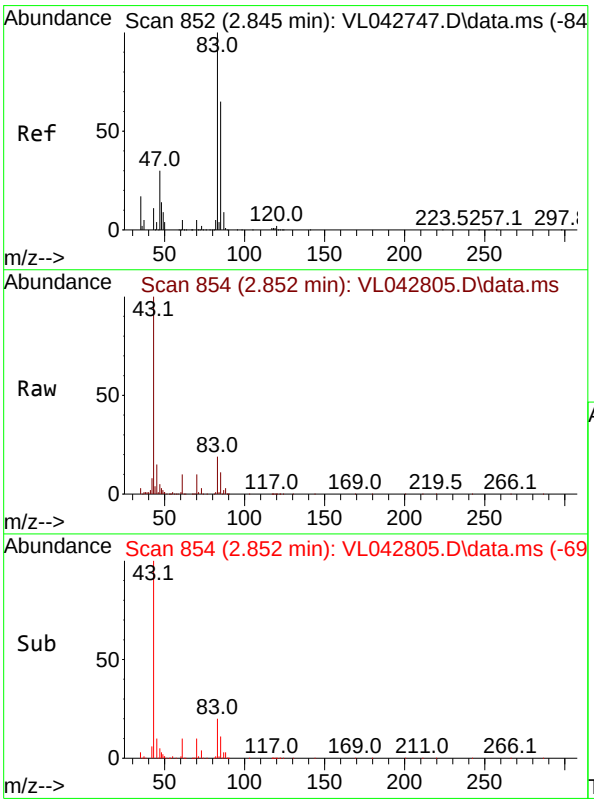
Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	10.5	9.9	14.9

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

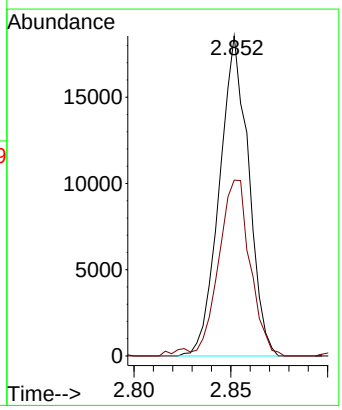


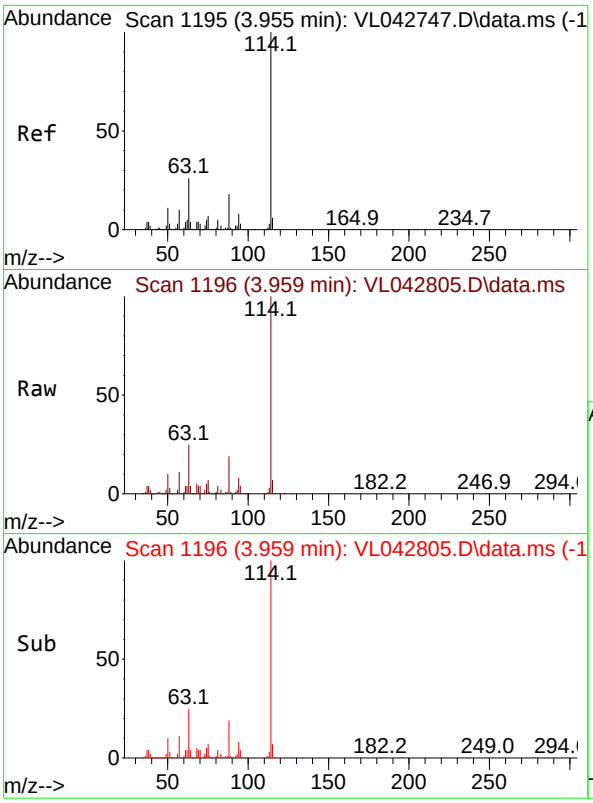


#29
Chloroform
Concen: 0.572 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 83 Resp: 19399

Ion	Ratio	Lower	Upper
83	100		
85	53.7	52.2	78.2

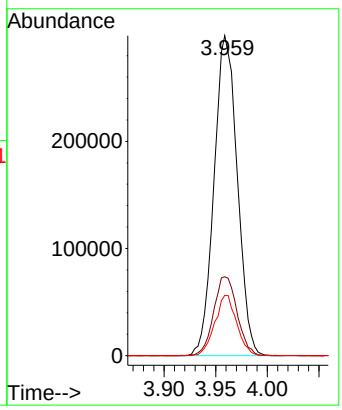




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion:114 Resp: 46793

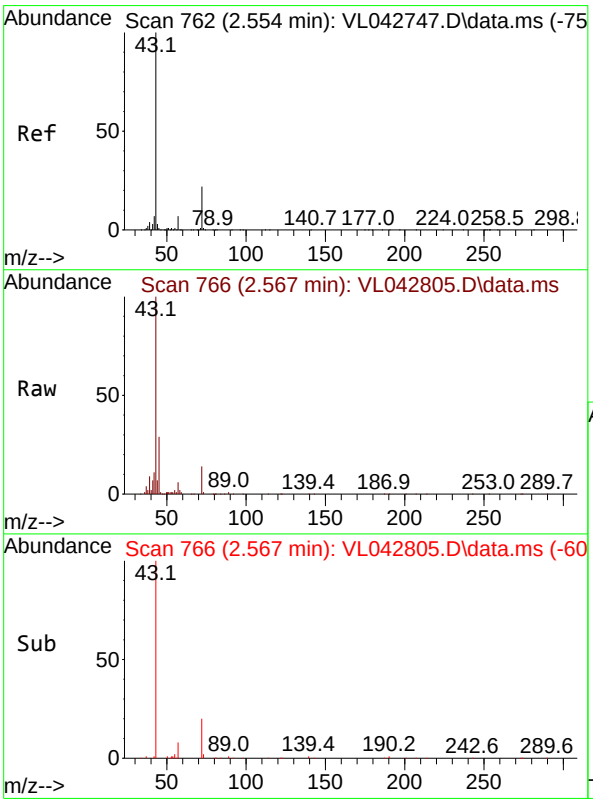
Ion	Ratio	Lower	Upper
114	100		
63	25.0	20.5	30.7
88	17.8	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations
APPROVED

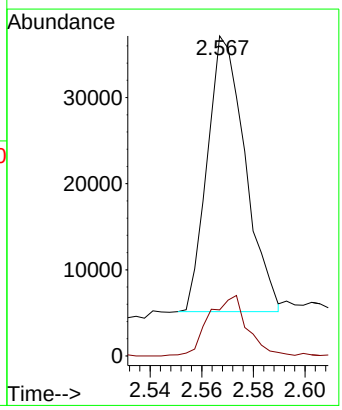
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

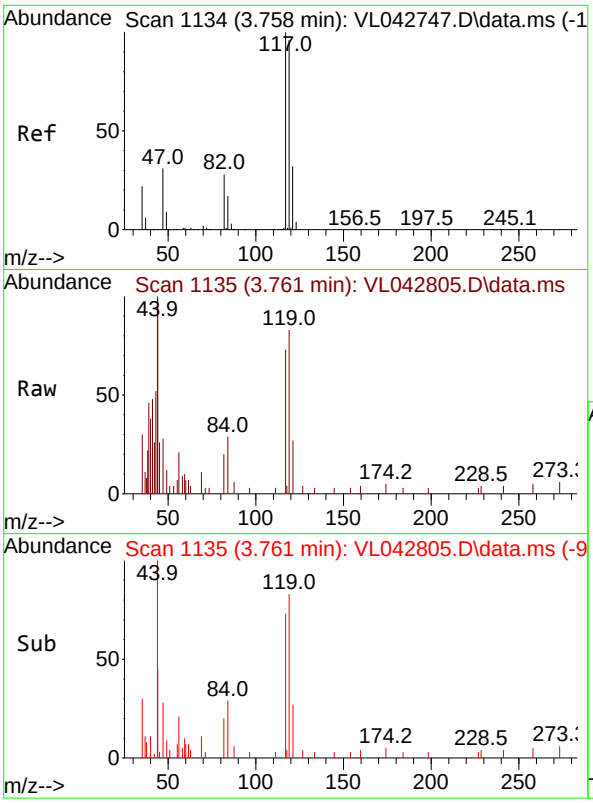


#34
2-Butanone
Concen: 0.980 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 43 Resp: 32492

Ion	Ratio	Lower	Upper
43	100		
72	23.1	17.4	26.0

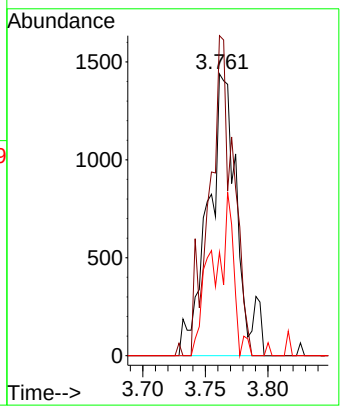




#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 3.761 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion:117 Resp: 230

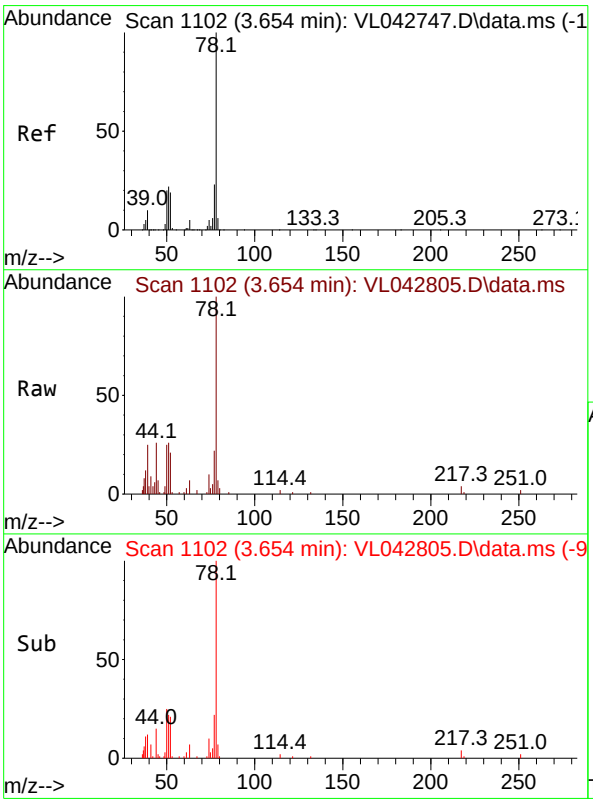
Ion	Ratio	Lower	Upper
117	100		
119	113.6	77.1	115.7
121	36.8	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations
APPROVED

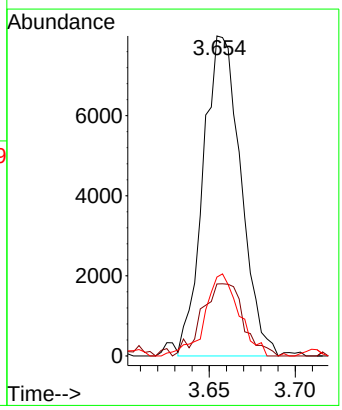
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

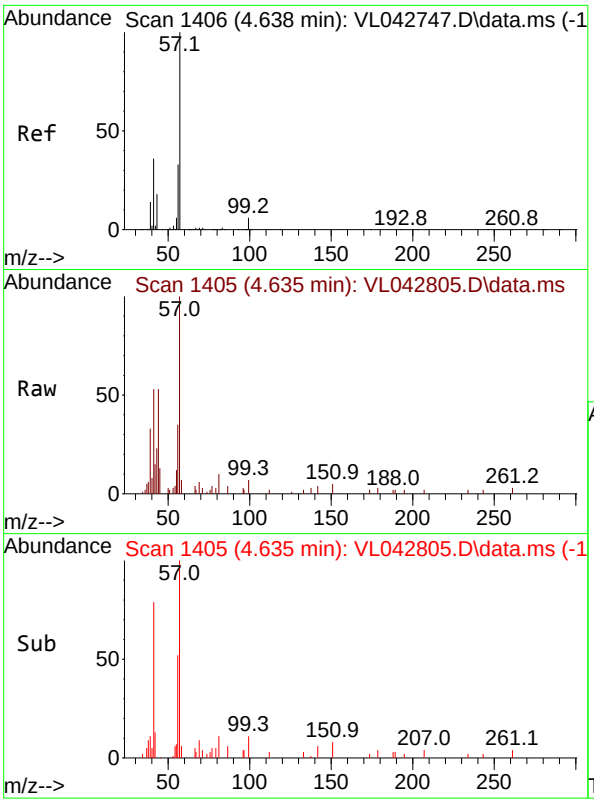


#36
Benzene
Concen: 0.274 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 78 Resp: 12134

Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.5	27.7
50	24.6	16.2	24.2#





#44
2,2,4-Trimethylpentane
Concen: 0.100 ppbv m
RT: 4.635 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

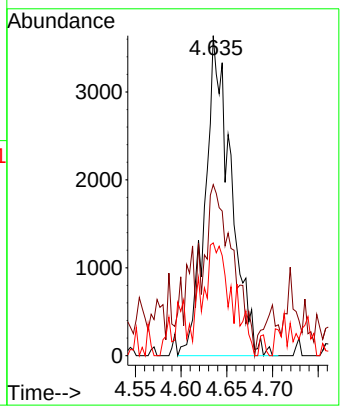
Tgt Ion: 57 Resp: 722

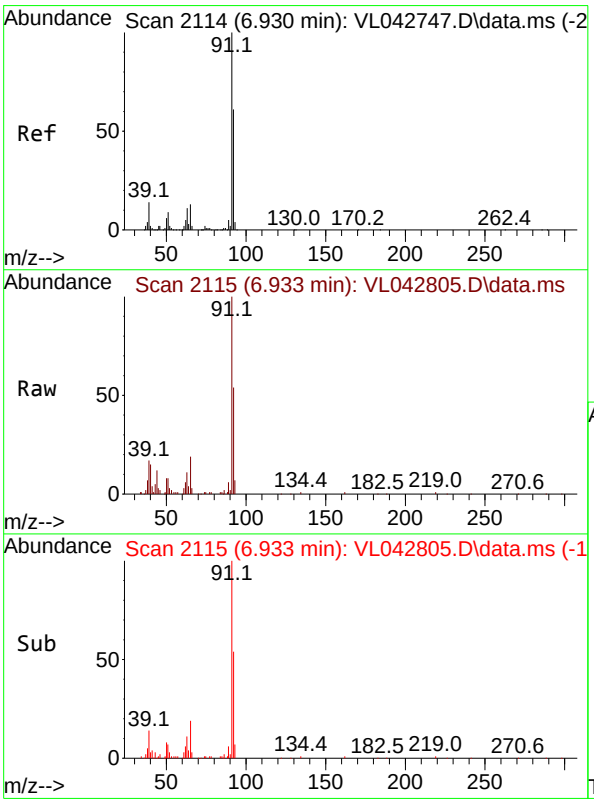
Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.3	42.5#
56	0.0	25.8	38.6#

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

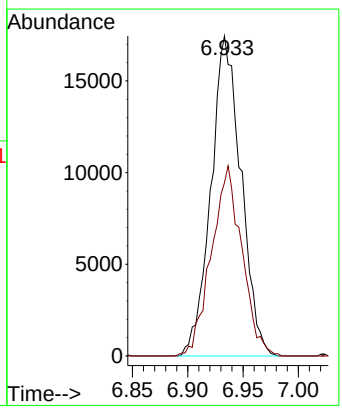


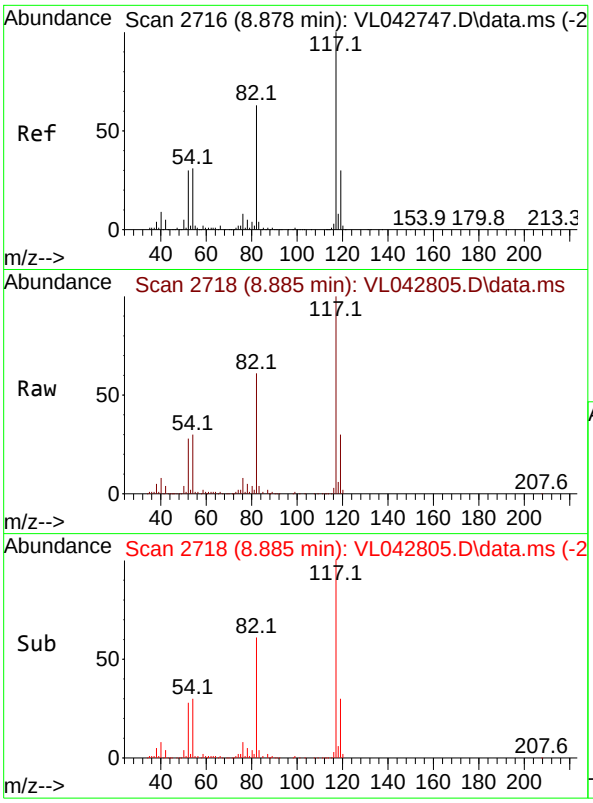


#53
Toluene
Concen: 0.693 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 91 Resp: 33005

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.0	72.0

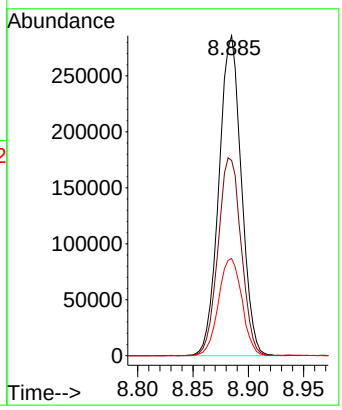




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion:117 Resp: 40357

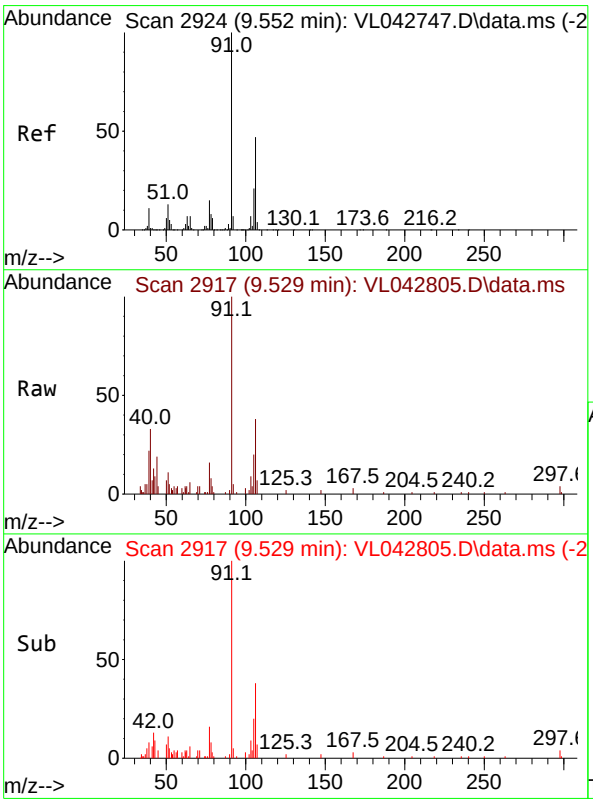
Ion	Ratio	Lower	Upper
117	100		
82	64.0	53.3	79.9
119	31.8	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations
APPROVED

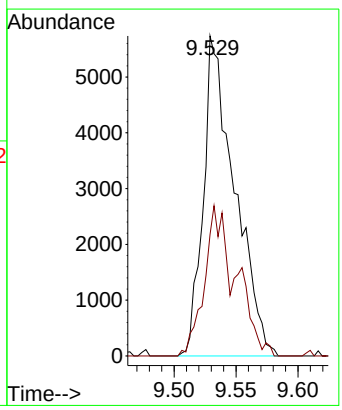
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

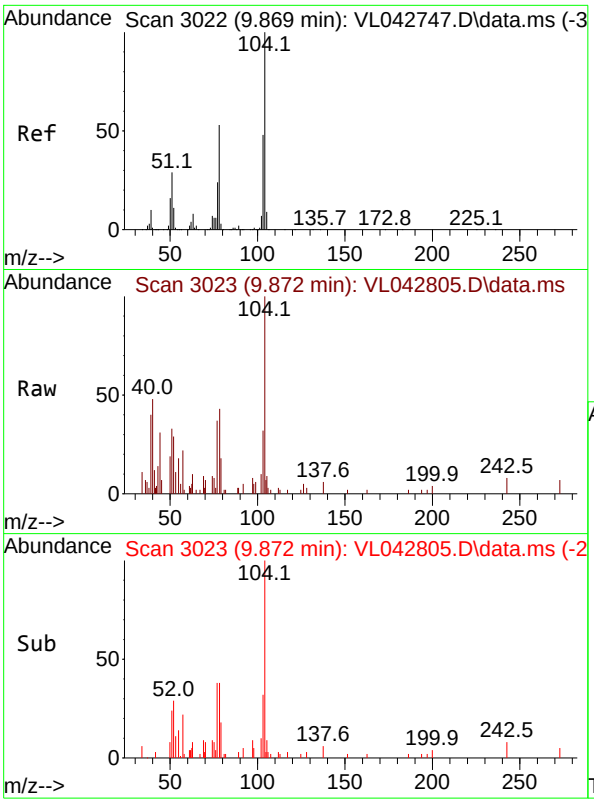


#59
m/p-Xylene
Concen: 0.199 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 91 Resp: 10128

Ion	Ratio	Lower	Upper
91	100		
106	47.0	37.4	56.2

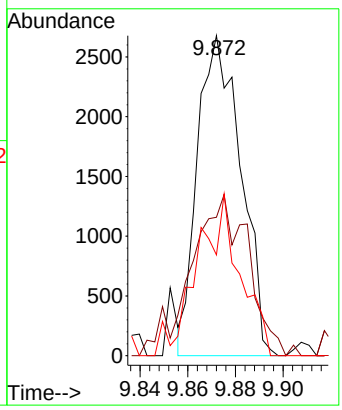




#61
Styrene
Concen: 0.158 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion:104 Resp: 338

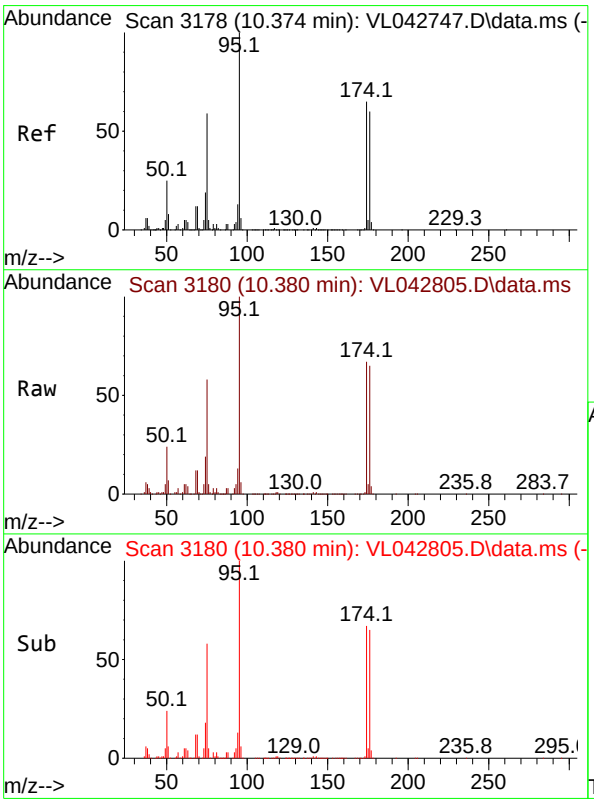
Ion	Ratio	Lower	Upper
104	100		
78	68.1	41.5	62.3#
103	49.9	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations
APPROVED

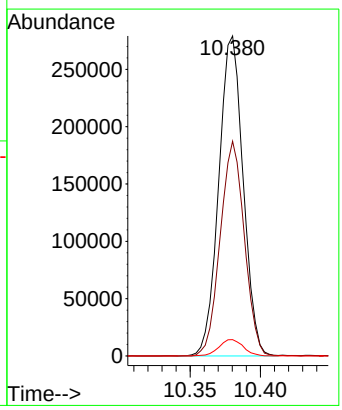
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

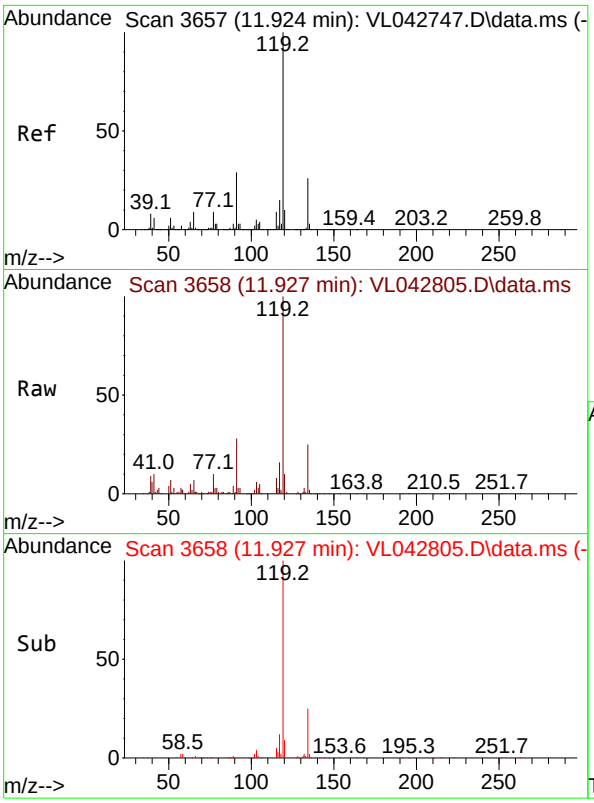


#68
1-Bromo-4-Fluorobenzene
Concen: 10.523 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.006 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 95 Resp: 336326

Ion	Ratio	Lower	Upper
95	100		
174	66.6	53.8	80.6
175	5.1	4.0	6.0

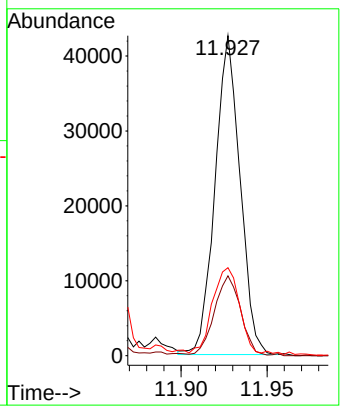




#69
p-Isopropyltoluene
Concen: 0.557 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion:119 Resp: 4307

Ion	Ratio	Lower	Upper
119	100		
134	26.6	20.6	31.0
91	31.2	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042805.D
Acq On : 04 Aug 2025 15:10
Operator : SY/MD
Sample : Q2750-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042805.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.424	409	413	416	rBV	4794971	4693777	9.74%	3.282%
2	1.437	416	417	423	rVV	4977727	2549195	5.29%	1.783%
3	1.473	423	428	430	rVV	4910832	2733172	5.67%	1.911%
4	1.486	430	432	441	rVB	2556174	1184694	2.46%	0.828%
5	1.557	450	454	459	rBV	4981058	2790837	5.79%	1.952%
6	1.729	495	507	527	rBV	3449178	8162960	16.95%	5.709%
7	1.835	535	540	550	rBV	4864726	3897891	8.09%	2.726%
8	1.926	550	568	569	rBV2	17617791	42108530	87.42%	29.447%
9	1.971	569	582	583	rVV	18510601	48167588	100.00%	33.685%
10	1.984	583	586	590	rVB2	18991414	15534993	32.25%	10.864%
11	2.790	826	835	841	rBV	618925	657845	1.37%	0.460%
12	2.842	841	851	862	rVB2	304498	566073	1.18%	0.396%
13	3.959	1184	1196	1212	rBV	787801	1230645	2.55%	0.861%
14	8.882	2704	2717	2728	rBV	965541	1435200	2.98%	1.004%
15	10.380	3163	3180	3190	rBV	1348921	1668485	3.46%	1.167%
16	10.859	3319	3328	3337	rVB	507327	597689	1.24%	0.418%
17	11.426	3494	3503	3513	rBV	750455	828140	1.72%	0.579%
18	11.853	3625	3635	3643	rBV	1151843	1230494	2.55%	0.861%
19	12.044	3685	3694	3703	rBV	2874799	2957952	6.14%	2.069%

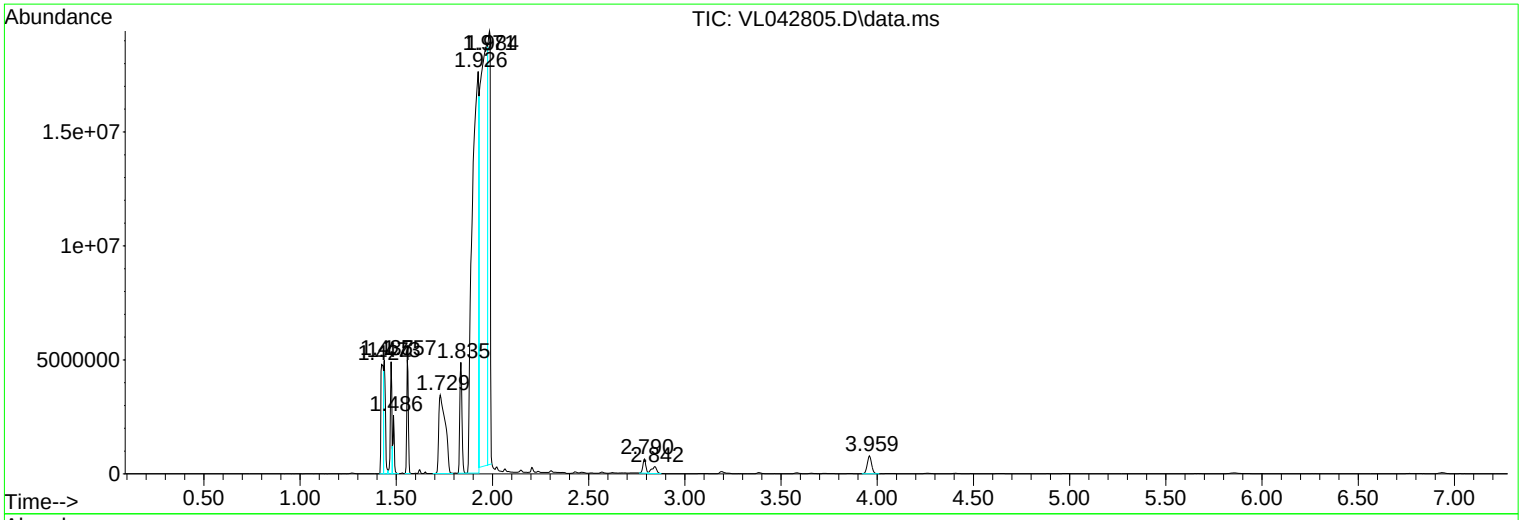
Sum of corrected areas: 142996160

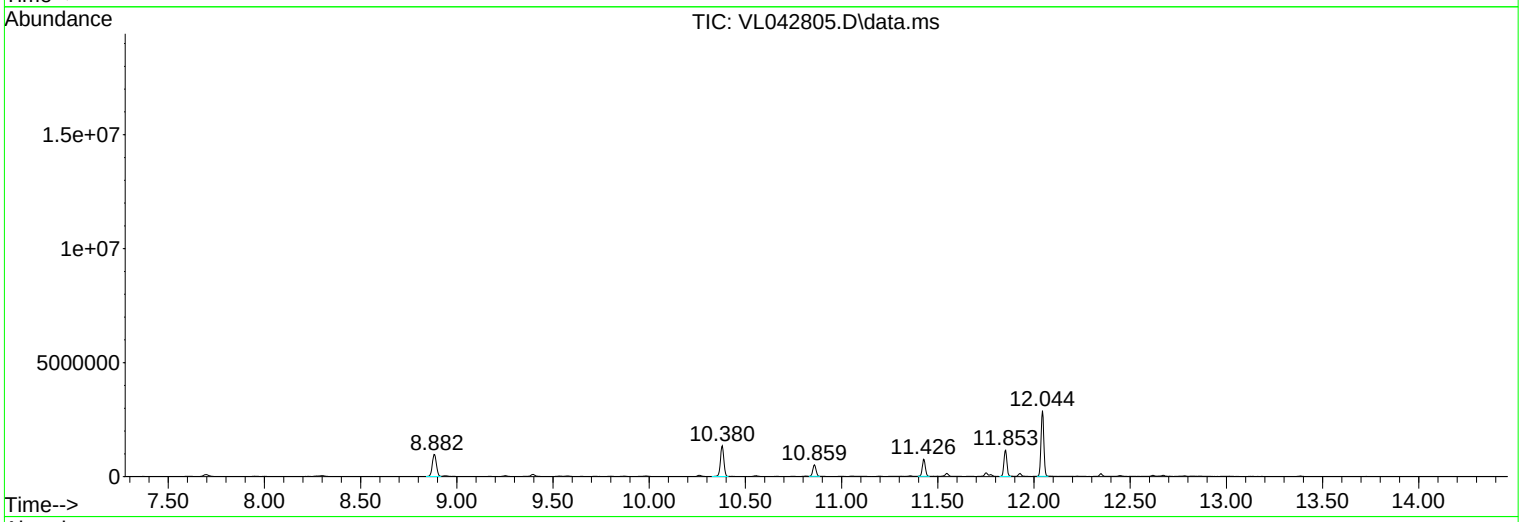
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042805.D
Acq On : 04 Aug 2025 15:10
Operator : SY/MD
Sample : Q2750-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

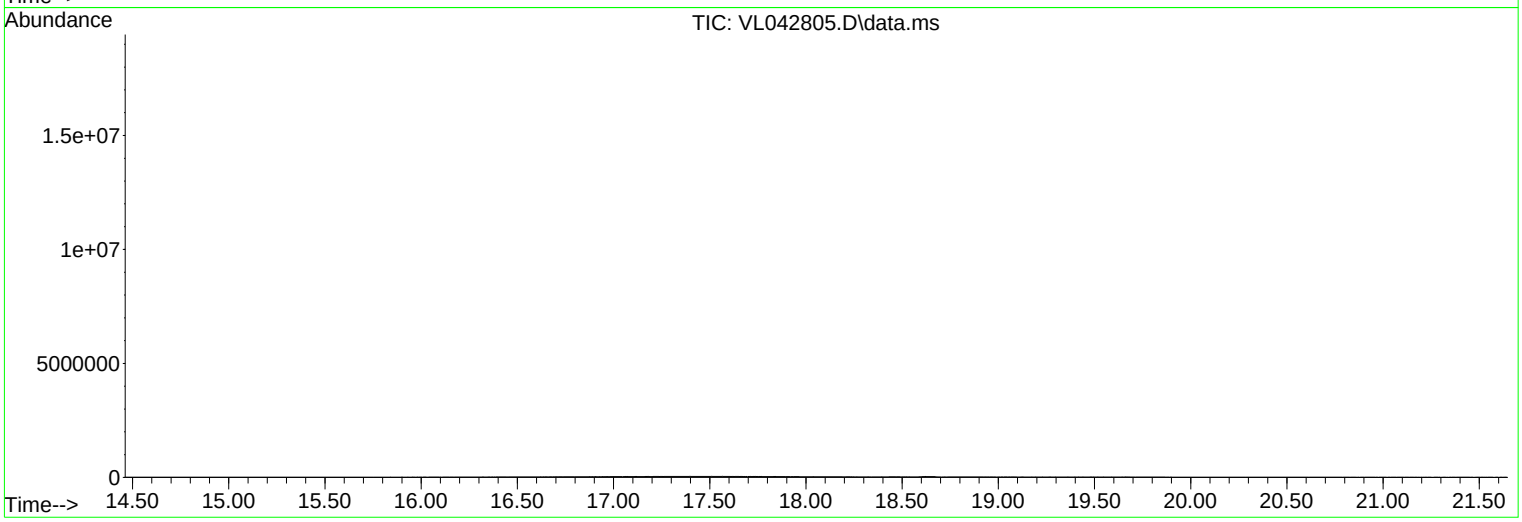
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042805.D
Acq On : 04 Aug 2025 15:10
Operator : SY/MD
Sample : Q2750-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

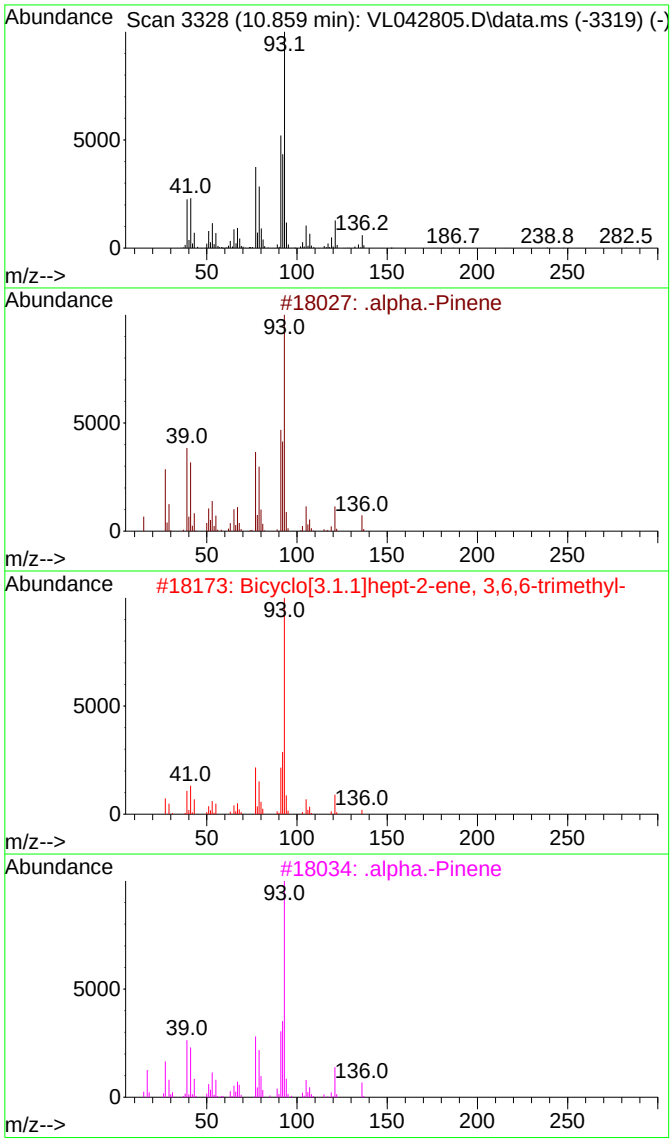
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

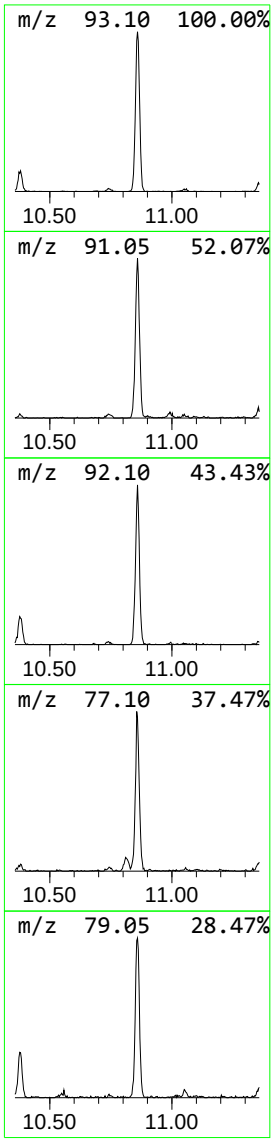
****

Peak Number 1 .alpha.-Pinene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.859	4.16 ppbv	597689	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Pinene	136	C10H16	000080-56-8	95
2	Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	91
3	.alpha.-Pinene	136	C10H16	000080-56-8	91
4	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	90
5	.gamma.-Terpinene	136	C10H16	000099-85-4	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042805.D
Acq On : 04 Aug 2025 15:10
Operator : SY/MD
Sample : Q2750-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

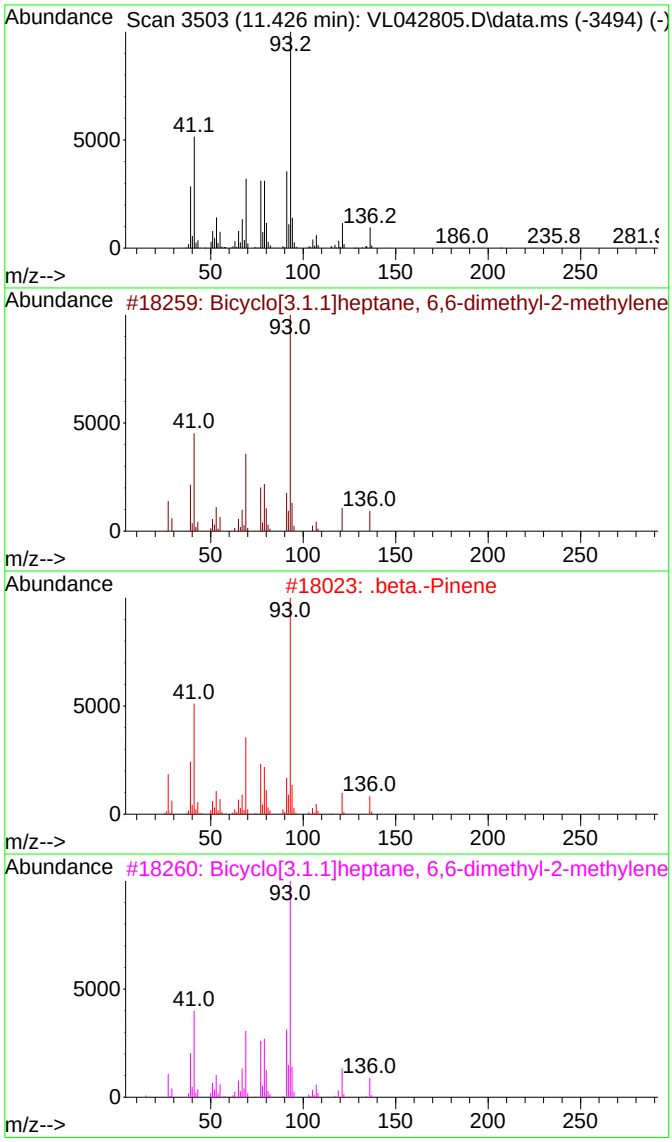
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

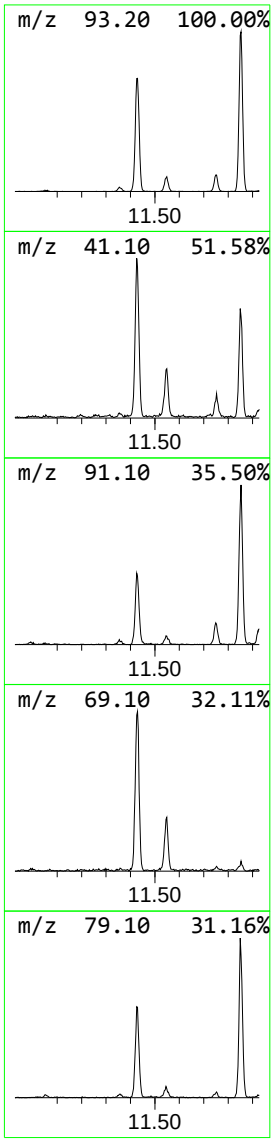
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Bicyclo[3.1.1]heptane, 6,6-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.426	5.77 ppbv	828140	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	95
2	.beta.-Pinene	136	C10H16	000127-91-3	94
3	Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	94
4	.beta.-Pinene	136	C10H16	000127-91-3	93
5	.alpha.-Pinene	136	C10H16	000080-56-8	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042805.D
Acq On : 04 Aug 2025 15:10
Operator : SY/MD
Sample : Q2750-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

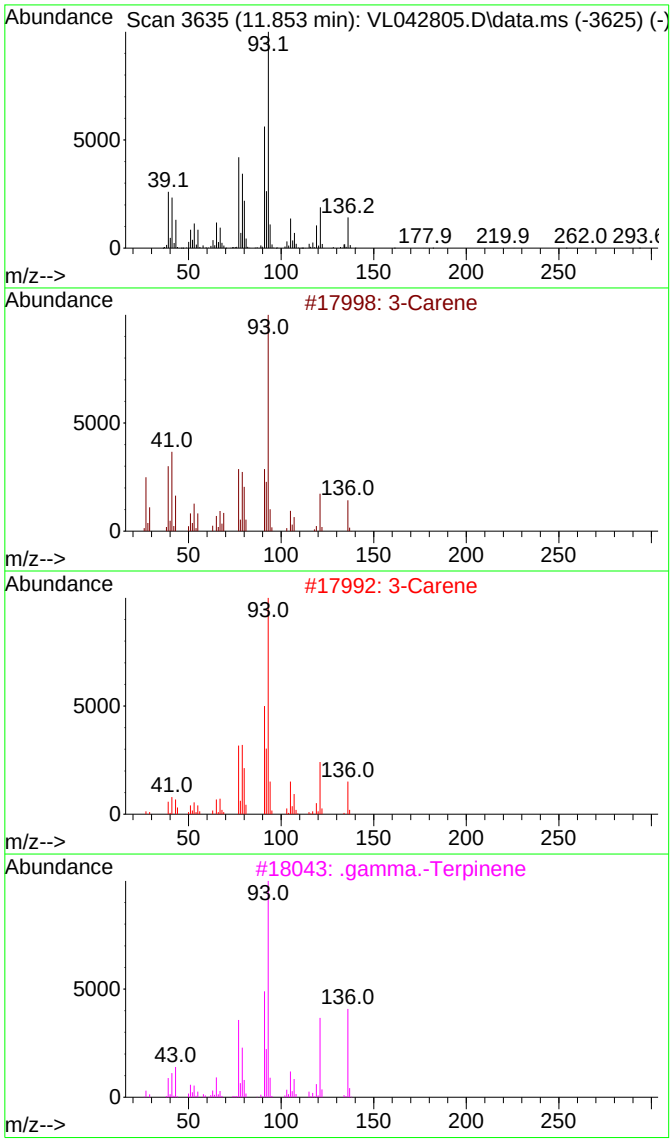
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

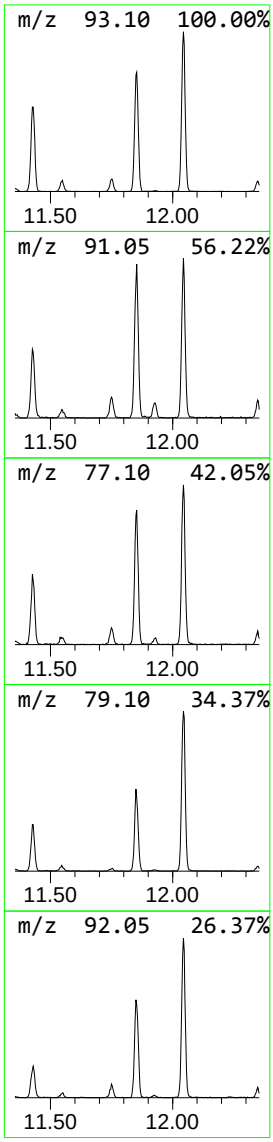
****

Peak Number 3 3-Carene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.853	8.57 ppbv	1230490	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Carene	136	C10H16	013466-78-9	95
2	3-Carene	136	C10H16	013466-78-9	95
3	.gamma.-Terpinene	136	C10H16	000099-85-4	94
4	.gamma.-Terpinene	136	C10H16	000099-85-4	91
5	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042805.D
Acq On : 04 Aug 2025 15:10
Operator : SY/MD
Sample : Q2750-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

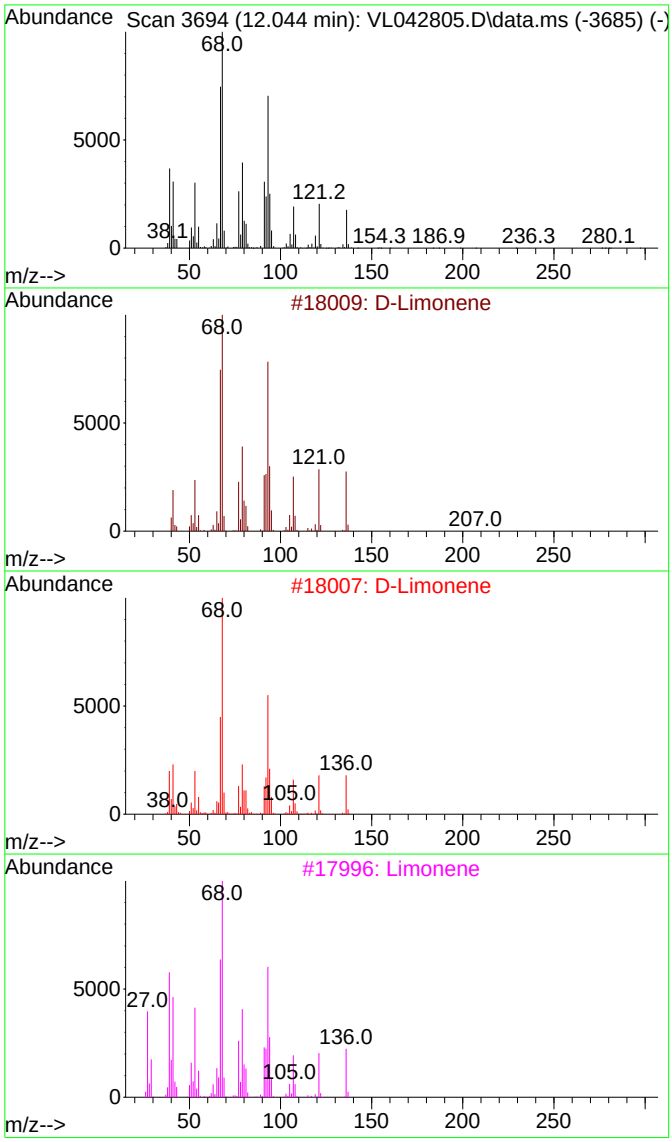
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

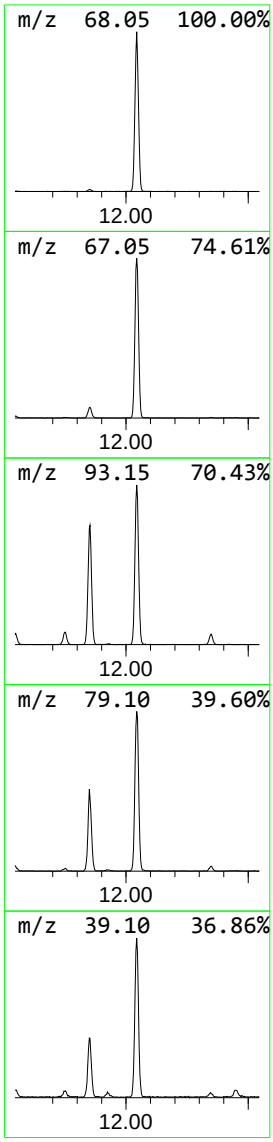
****

Peak Number 4 D-Limonene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.044	20.61 ppbv	2957950	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	98
2	D-Limonene	136	C10H16	005989-27-5	94
3	Limonene	136	C10H16	000138-86-3	91
4	Limonene	136	C10H16	000138-86-3	86
5	Cyclohexene, 1-methyl-4-(1-methy...	136	C10H16	005989-54-8	86





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042805.D
Acq On : 04 Aug 2025 15:10
Operator : SY/MD
Sample : Q2750-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
.alpha.-Pinene	10.859	4.2	ppbv	597689	3	8.885	1435200	10.0
Bicyclo[3.1.1]h...	11.426	5.8	ppbv	828140	3	8.885	1435200	10.0
3-Carene	11.853	8.6	ppbv	1230490	3	8.885	1435200	10.0
D-Limonene	12.044	20.6	ppbv	2957950	3	8.885	1435200	10.0

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-7DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-06DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042817.D	20		08/04/25 21:57	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.20	10.9	UD	10.9	49.5	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.50	1.28	UD	1.28	1.53	ug/m3
74-83-9	Bromomethane	1.50	5.82	UD	5.82	38.8	ug/m3
75-00-3	Chloroethane	3.00	7.92	UD	7.92	26.4	ug/m3
109-99-9	Tetrahydrofuran	1.60	4.72	UD	4.72	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.40	19.1	UD	19.1	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	2.80	21.5	UD	21.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.00	21.0	UD	21.0	69.9	ug/m3
75-65-0	tert-Butyl alcohol	3.20	9.70	UD	9.70	30.3	ug/m3
142-82-5	Heptane	3.40	13.9	UD	13.9	41.0	ug/m3
75-35-4	1,1-Dichloroethene	3.00	11.9	UD	11.9	39.6	ug/m3
67-64-1	Acetone	160	380	D	8.55	23.8	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.60	16.6	UD	16.6	36.0	ug/m3
75-09-2	Methylene Chloride	7.00	24.3	JD	16.0	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	2.40	9.52	UD	9.52	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	1.10	3.24	UD	3.24	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.50	3.15	UD	3.15	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	2.00	7.93	UD	7.93	39.6	ug/m3
67-66-3	Chloroform	1.90	9.28	UD	9.28	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.32	1.75	UD	1.75	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	2.80	13.1	UD	13.1	46.7	ug/m3
71-43-2	Benzene	1.60	5.11	UD	5.11	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.90	7.69	UD	7.69	40.5	ug/m3
79-01-6	Trichloroethene	0.48	2.58	UD	2.58	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.60	12.0	UD	12.0	46.2	ug/m3
75-27-4	Bromodichloromethane	1.30	8.71	UD	8.71	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	3.20	12.1	UD	12.1	37.7	ug/m3
10061-02-6	t-1,3-Dichloropropene	3.00	13.6	UD	13.6	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.20	9.99	UD	9.99	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.60	8.73	UD	8.73	54.6	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-7DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-06DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042817.D	20		08/04/25 21:57	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	1.70	14.5	UD	14.5	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.70	13.1	UD	13.1	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	3.80	16.5	UD	16.5	43.4	ug/m3
179601-23-1	m/p-Xylene	8.20	35.6	UD	35.6	86.9	ug/m3
95-47-6	o-Xylene	4.20	18.2	UD	18.2	43.4	ug/m3
100-42-5	Styrene	3.20	13.6	UD	13.6	42.6	ug/m3
75-25-2	Bromoform	0.96	9.93	UD	9.93	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.36	2.47	UD	2.47	4.12	ug/m3
95-49-8	2-Chlorotoluene	3.40	17.6	UD	17.6	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	4.20	31.2	UD	31.2	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	2.60	27.7	UD	27.7	107	ug/m3
106-99-0	1,3-Butadiene	1.00	2.21	UD	2.21	22.1	ug/m3
91-20-3	Naphthalene	0.26	1.36	UD	1.36	10.5	ug/m3
622-96-8	4-Ethyltoluene	4.20	20.6	UD	20.6	49.2	ug/m3
110-54-3	Hexane	3.20	11.3	UD	11.3	35.2	ug/m3
107-05-1	Allyl Chloride	2.20	6.89	UD	6.89	31.3	ug/m3
123-91-1	1,4-Dioxane	4.40	15.9	UD	15.9	36.0	ug/m3
80-62-6	Methyl Methacrylate	2.80	11.5	UD	11.5	41.0	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			70 (65) - 130 (135)	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	149000		2.787			
540-36-3	1,4-Difluorobenzene	378000		3.959			
3114-55-4	Chlorobenzene-d5	324000		8.882			

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-7DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-06DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042817.D	20		08/04/25 21:57	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042817.D
Acq On : 04 Aug 2025 21:57
Operator : SY/MD
Sample : Q2750-06DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:13:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	149464	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	378209	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	324186	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	253708	9.882	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.800%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.473	51	109538	4.255	ppbv	99
9) Propene	1.486	41	9371m	1.002	ppbv	
13) Ethanol	1.722	45	223366	326.729	ppbv	89
15) Acetone	1.835	43	166487	8.067	ppbv	99
19) Isopropyl Alcohol	1.894	45	4596186	419.069	ppbv #	40
20) Methylene Chloride	2.065	84	2281	0.351	ppbv #	40

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

Quantitation Report (QT Reviewed)

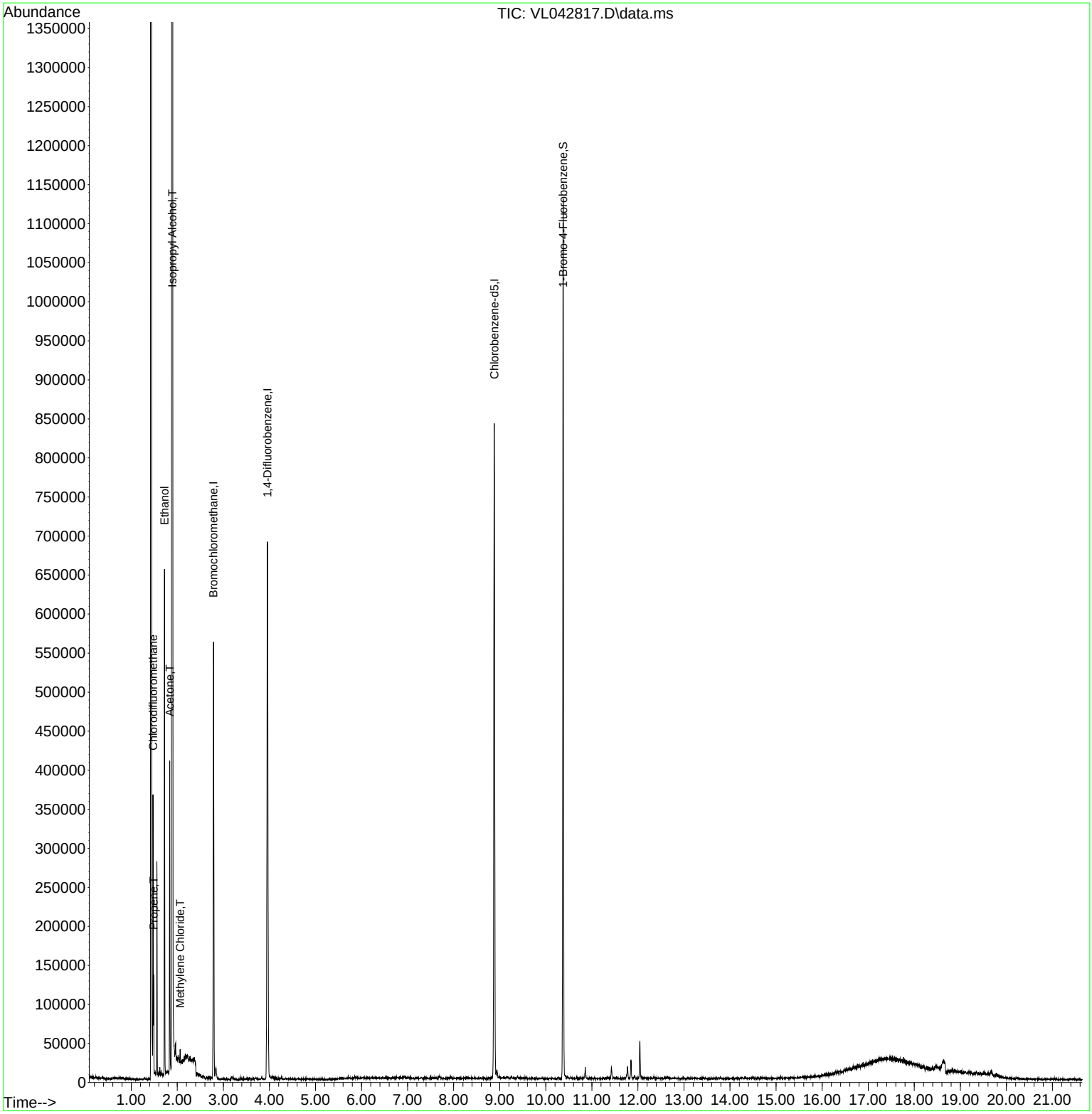
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042817.D
Acq On : 04 Aug 2025 21:57
Operator : SY/MD
Sample : Q2750-06DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

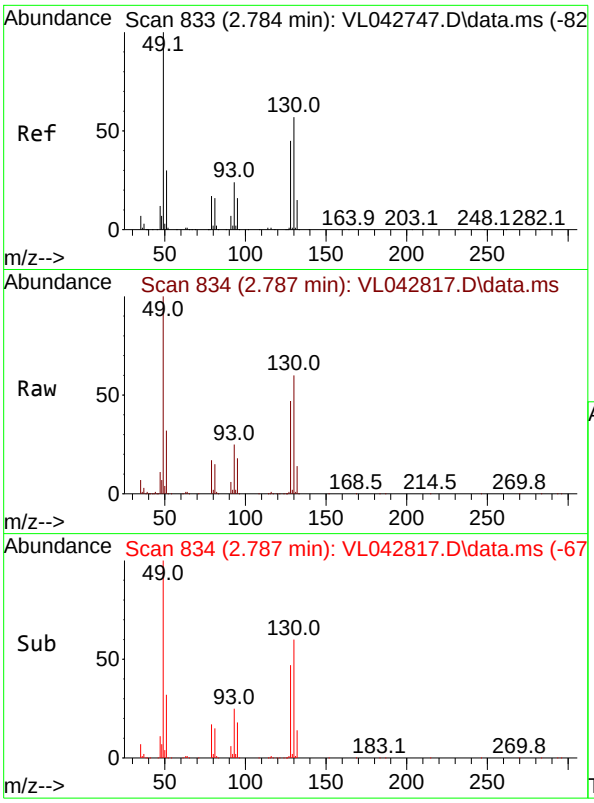
Quant Time: Aug 05 01:13:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

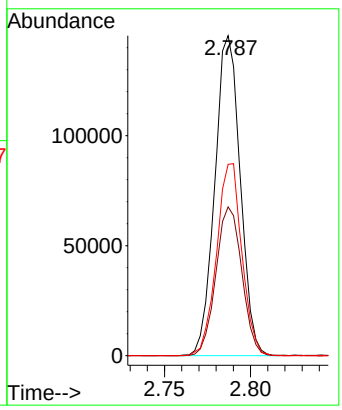




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 49 Resp: 14946

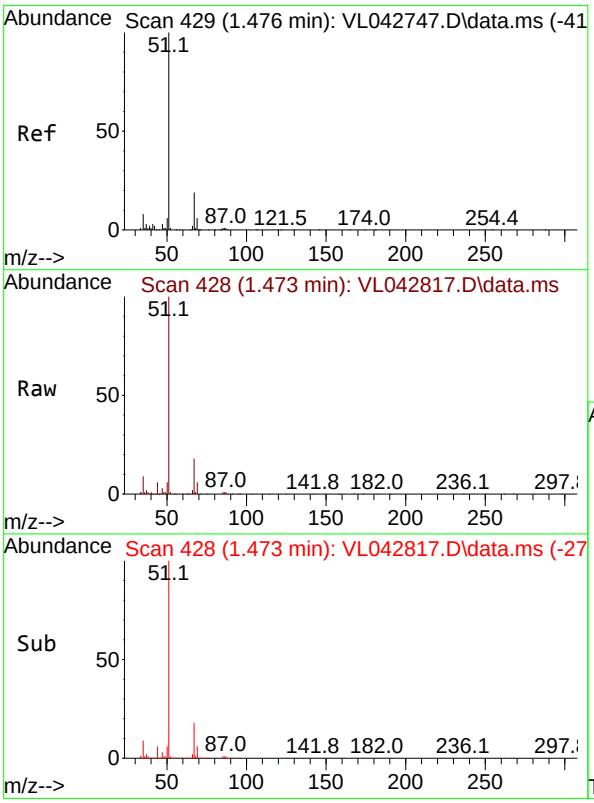
Ion	Ratio	Lower	Upper
49	100		
128	47.4	23.6	71.0
130	59.8	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Manual Integrations
APPROVED

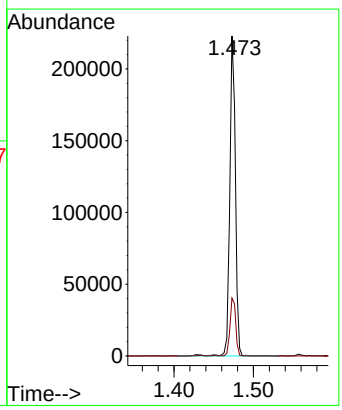
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

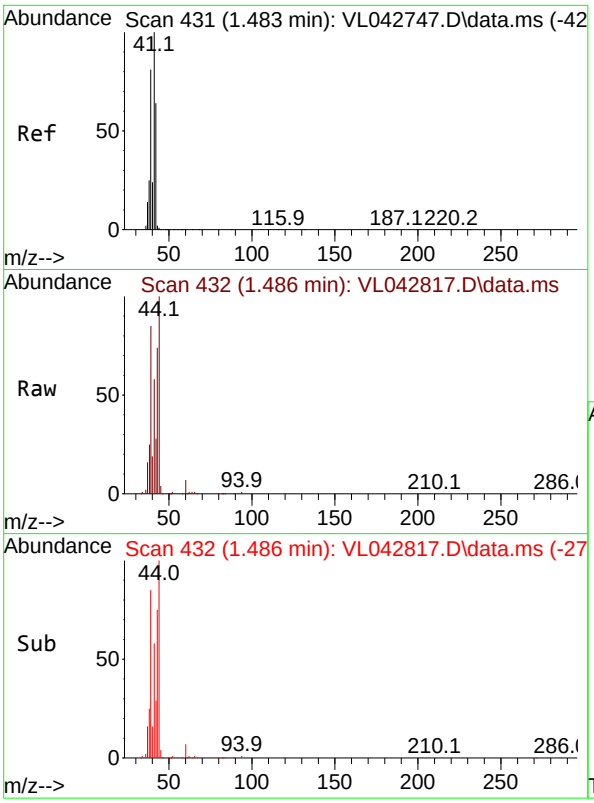


#3
Chlorodifluoromethane
Concen: 4.255 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 51 Resp: 109538

Ion	Ratio	Lower	Upper
51	100		
67	18.4	15.0	22.6

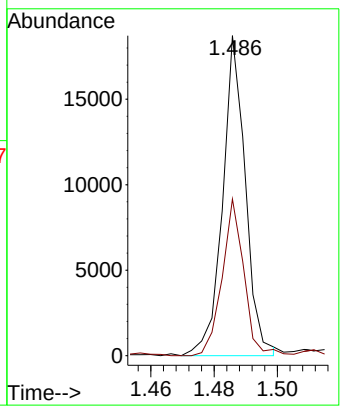




#9
Propene
Concen: 1.002 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 41 Resp: 937

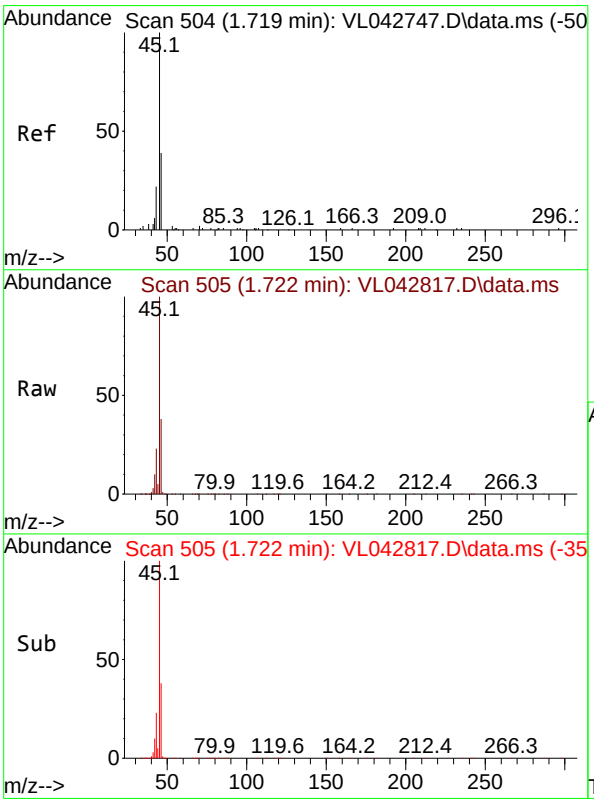
Ion	Ratio	Lower	Upper
41	100		
42	254.2	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Manual Integrations
APPROVED

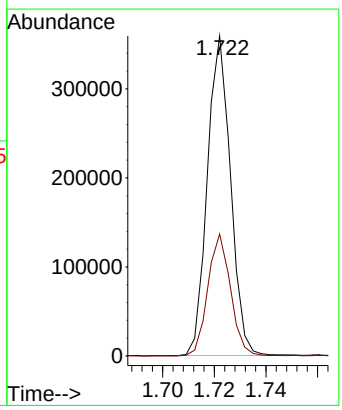
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

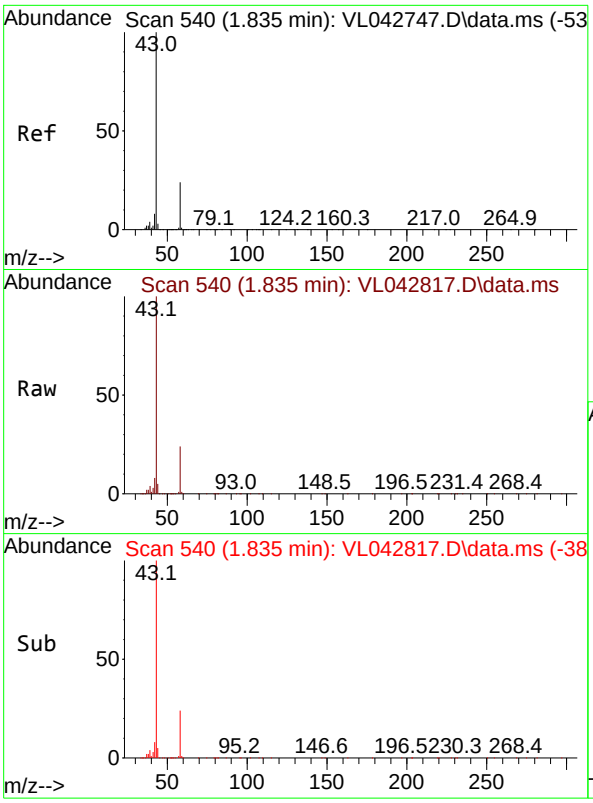


#13
Ethanol
Concen: 326.729 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 45 Resp: 223366

Ion	Ratio	Lower	Upper
45	100		
46	37.7	17.8	71.4





#15
Acetone
Concen: 8.067 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

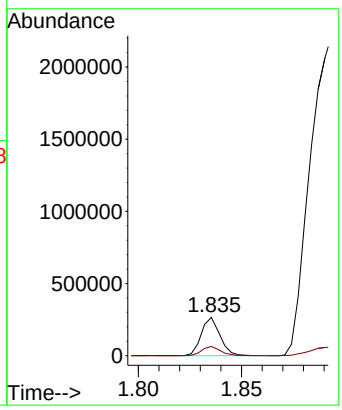
Tgt Ion: 43 Resp: 16648

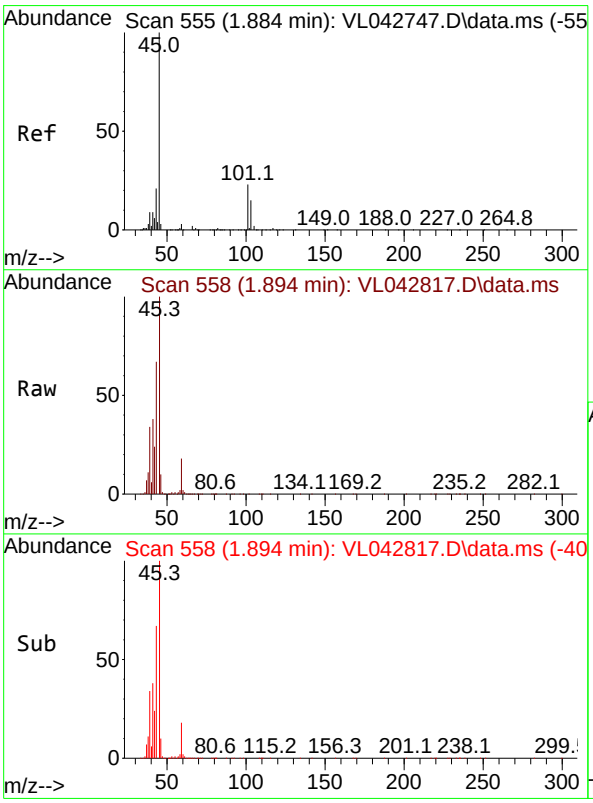
Ion	Ratio	Lower	Upper
43	100		
58	24.3	19.8	29.8

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

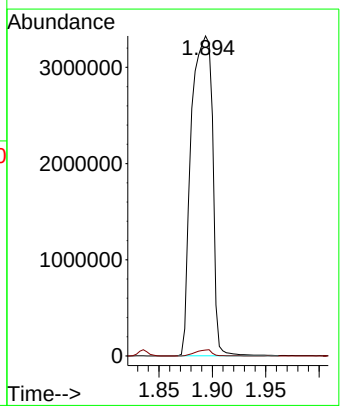


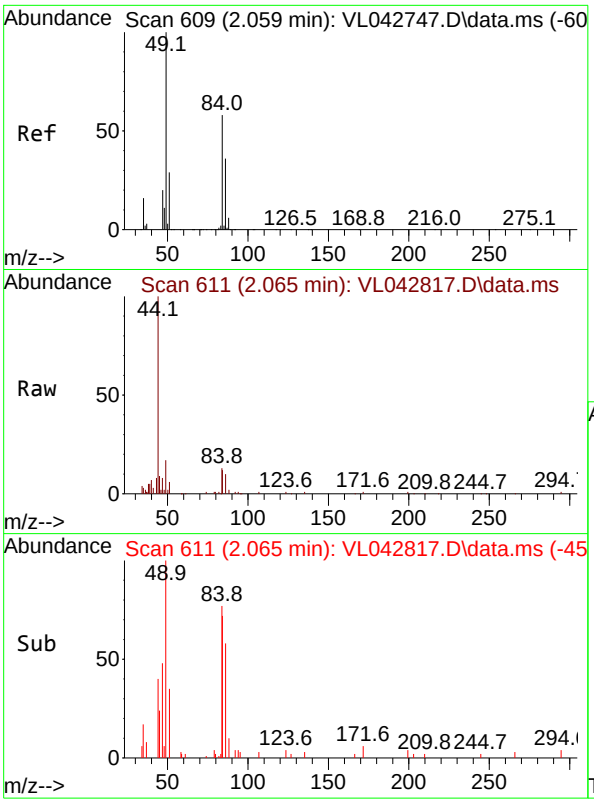


#19
Isopropyl Alcohol
Concen: 419.069 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.010 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 45 Resp: 4596186

Ion	Ratio	Lower	Upper
45	100		
58	1.6	30.0	45.0#

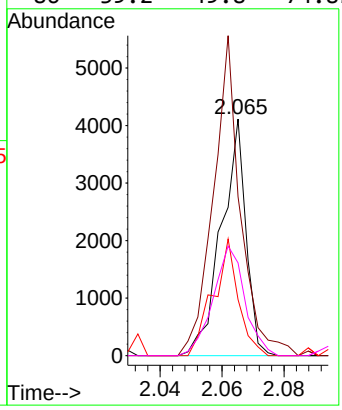




#20
Methylene Chloride
Concen: 0.351 ppbv
RT: 2.065 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 84 Resp: 228

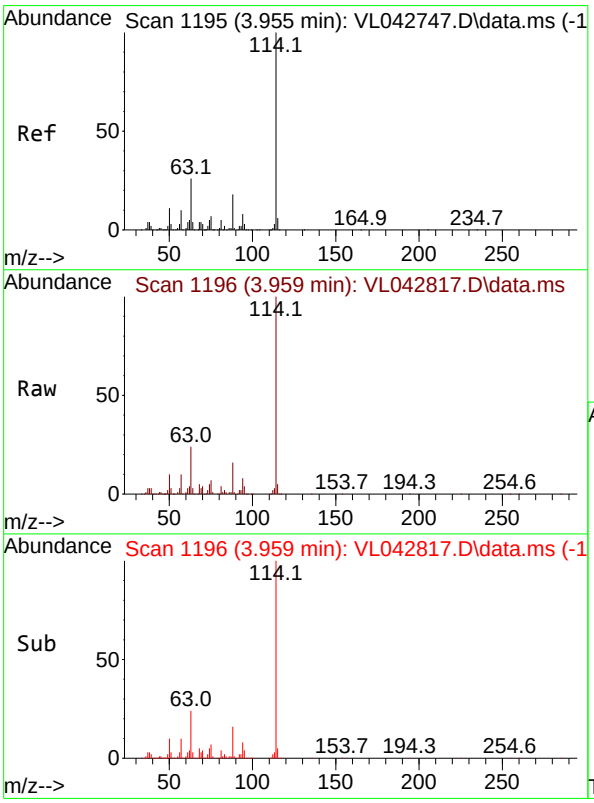
Ion	Ratio	Lower	Upper
84	100		
49	67.3	138.6	208.0#
51	23.7	40.6	61.0#
86	39.2	49.8	74.8#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Manual Integrations
APPROVED

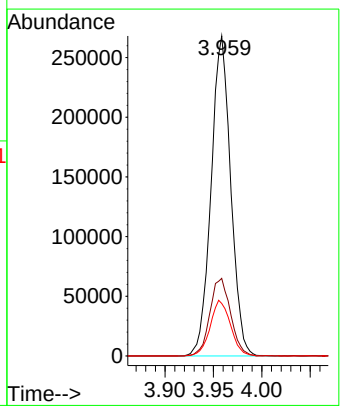
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

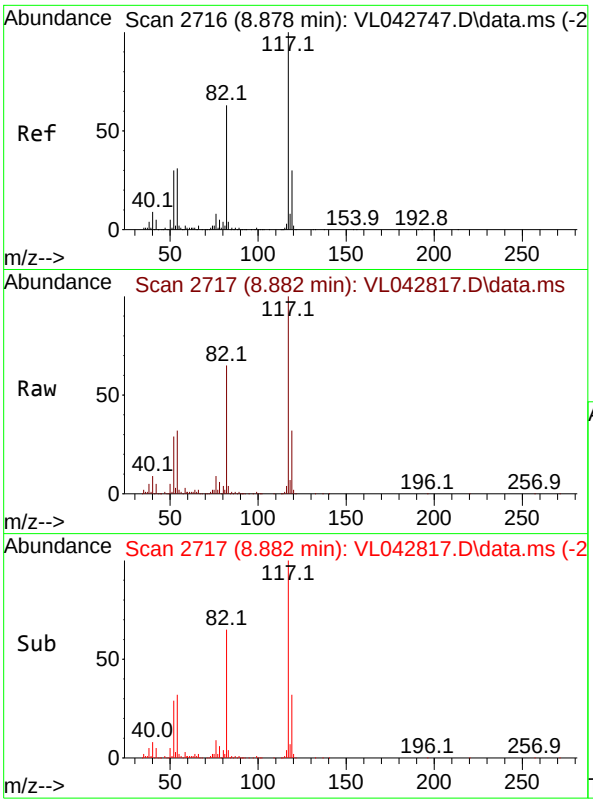


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion:114 Resp: 378209

Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.5	30.7
88	18.0	14.0	21.0

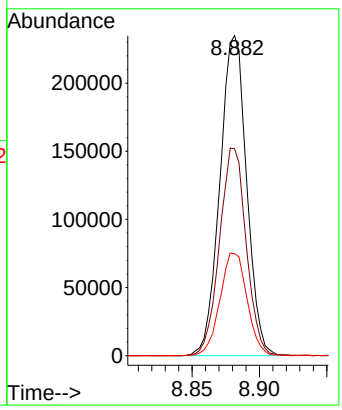




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion:117 Resp: 32418

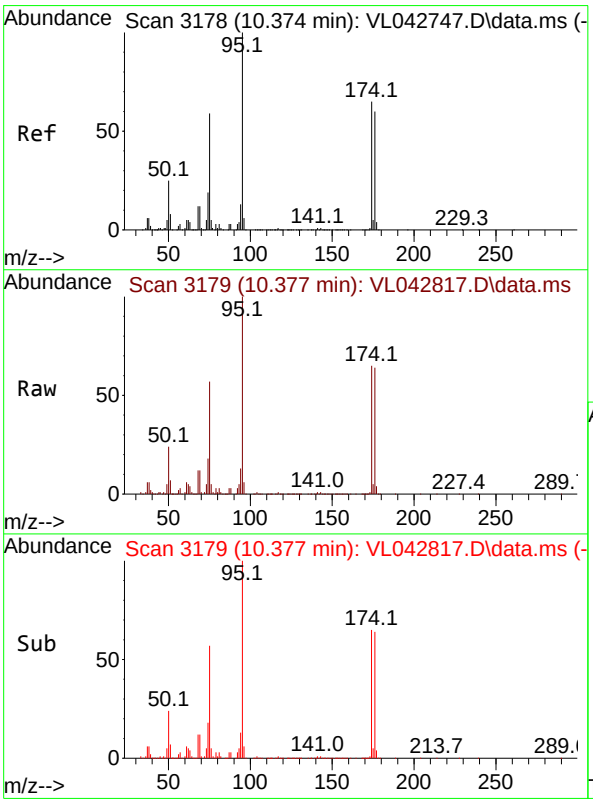
Ion	Ratio	Lower	Upper
117	100		
82	64.9	53.3	79.9
119	32.6	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Manual Integrations
APPROVED

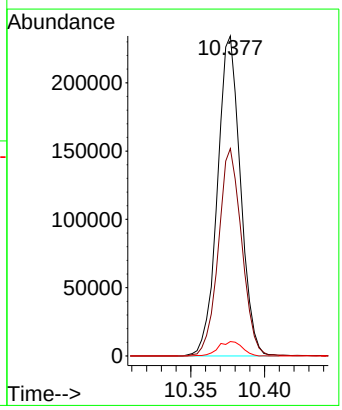
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.882 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 95 Resp: 253708

Ion	Ratio	Lower	Upper
95	100		
174	66.0	53.8	80.6
175	4.7	4.0	6.0



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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-8	SDG No.:	Q2750
Lab Sample ID:	Q2750-07	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042806.D	1		08/04/25 15:44	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.59	2.92		0.54	2.47	ug/m3
74-87-3	Chloromethane	0.65	1.34		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.37	1.09	J	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.20	1.12	J	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.22	0.90	J	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	95.9	228	E	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	2.50	7.79		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	2.30	7.99		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	1.30	3.83		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.55	2.69		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.30	0.96	J	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.66	2.49		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-8	SDG No.:	Q2750
Lab Sample ID:	Q2750-07	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042806.D	1		08/04/25 15:44	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	J	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.46	2.41		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	2.20	7.75		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			70 (65) - 130 (135)	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	163000		2.793			
540-36-3	1,4-Difluorobenzene	465000		3.962			
3114-55-4	Chlorobenzene-d5	398000		8.885			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	48.2		J		1.48	ppbv
115-07-1	Propene	15.2		J		1.49	ppbv
64-17-5	Ethanol	5000		J		1.73	ppbv

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-8	SDG No.:	Q2750
Lab Sample ID:	Q2750-07	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042806.D	1		08/04/25 15:44	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	1800		J		1.97	ppbv
141-78-6	Ethyl Acetate	4.00		J		2.84	ppbv
000080-56-8	.alpha.-Pinene	3.90		J		10.9	ppbv
018172-67-3	Bicyclo[3.1.1]heptane, 6,6-dimethy	5.40		J		11.4	ppbv
013466-78-9	3-Carene	8.50		J		11.9	ppbv
99-87-6	p-Isopropyltoluene	0.59		J		11.9	ppbv
005989-27-5	D-Limonene	21.2		J		12.0	ppbv

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\VL080425\
Data File : VL042806.D
Acq On : 04 Aug 2025 15:44
Operator : SY/MD
Sample : Q2750-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:07:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	162780	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	464881	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	398366	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	335920	10.648	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 106.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	12758	0.593	ppbv	98
3) Chlorodifluoromethane	1.476	51	1351589	48.209	ppbv #	90
4) Chloromethane	1.531	50	5691	0.654	ppbv	92
9) Propene	1.489	41	154985m	15.210	ppbv	
10) Heptane	4.981	43	6039m	0.220	ppbv	
11) Trichlorofluoromethane	1.881	101	4494	0.203	ppbv	92
13) Ethanol	1.728	45	3700748	4986.827	ppbv	94
15) Acetone	1.835	43	2155988	95.918	ppbv #	80
19) Isopropyl Alcohol	1.974	45	21721192m	1818.473	ppbv	
20) Methylene Chloride	2.065	84	16608	2.345	ppbv	88
25) Ethyl Acetate	2.842	43	200376m	4.027	ppbv	
26) Hexane	2.829	57	47214	2.163	ppbv #	1
27) Carbon Disulfide	2.152	76	46700	2.499	ppbv #	65
29) Chloroform	2.852	83	18480	0.548	ppbv	100
34) 2-Butanone	2.570	43	42826m	1.301	ppbv	
35) Carbon Tetrachloride	3.768	117	2295m	0.066	ppbv	
36) Benzene	3.661	78	13222	0.300	ppbv #	88
41) Tetrahydrofuran	3.078	42	6216m	0.371	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	7974m	0.111	ppbv	
53) Toluene	6.943	91	31303	0.662	ppbv	96
59) m/p-Xylene	9.532	91	10202m	0.203	ppbv	
61) Styrene	9.875	104	3442	0.163	ppbv #	85
69) p-Isopropyltoluene	11.930	119	45031	0.590	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	6323	0.117	ppbv #	75
79) Naphthalene	13.520	128	1344	0.457	ppbv #	79

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

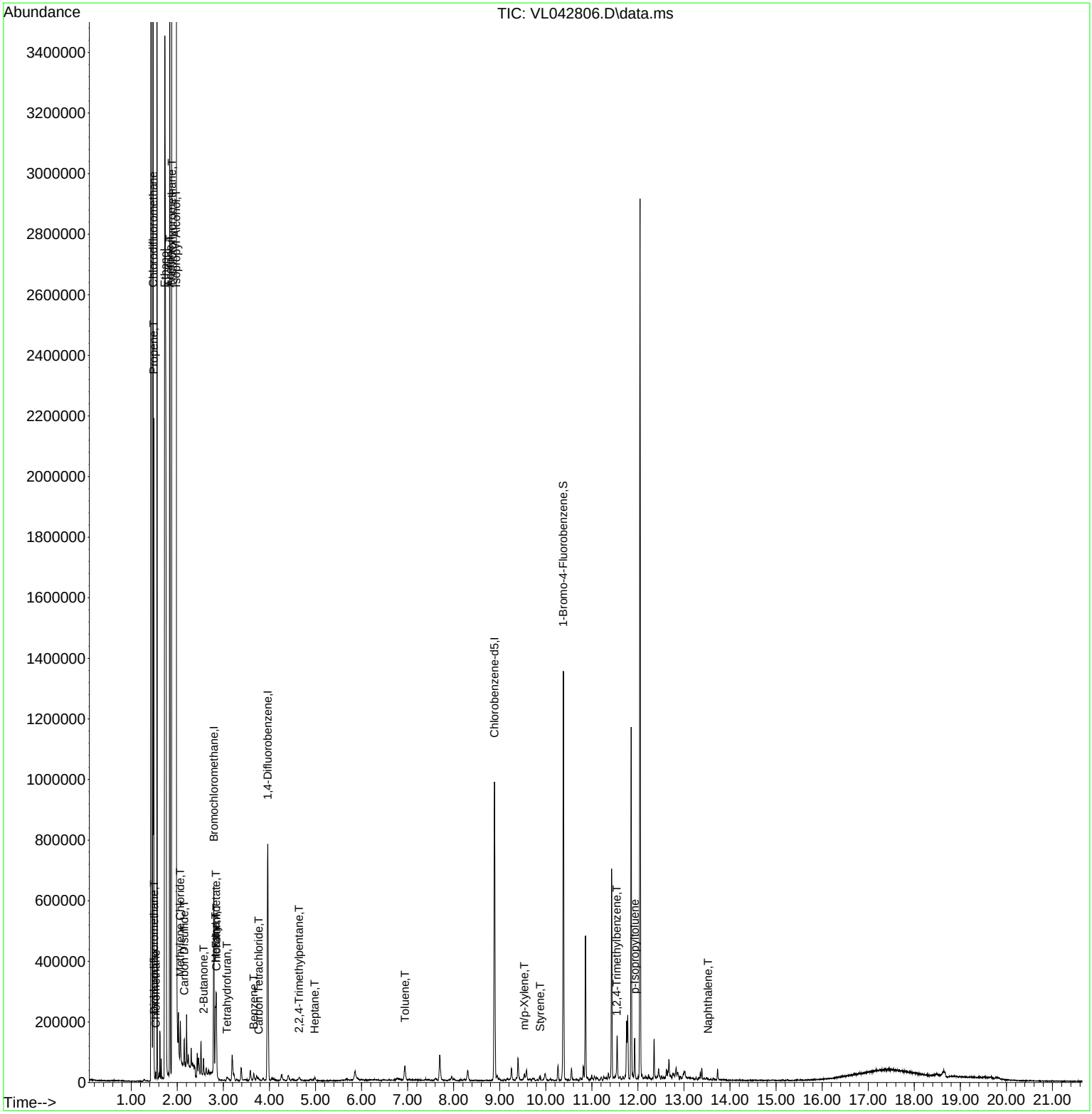
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042806.D
Acq On : 04 Aug 2025 15:44
Operator : SY/MD
Sample : Q2750-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

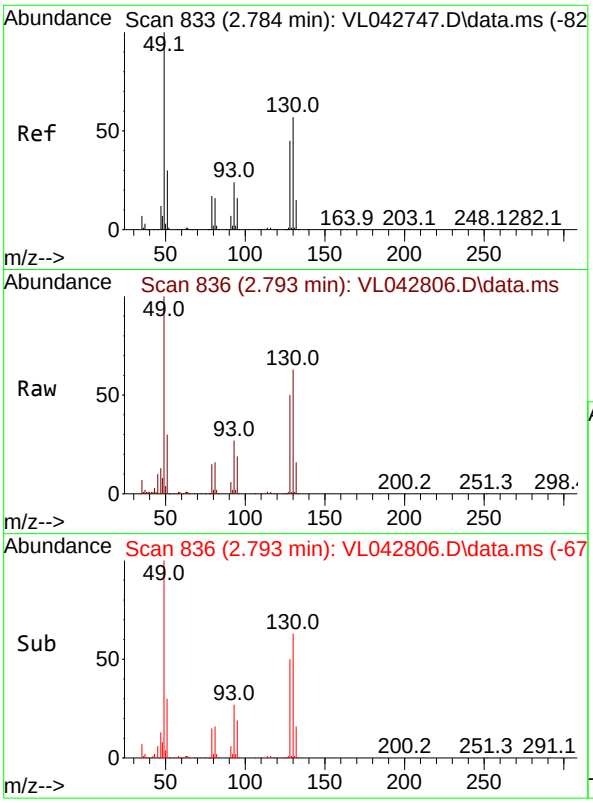
Quant Time: Aug 05 01:07:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

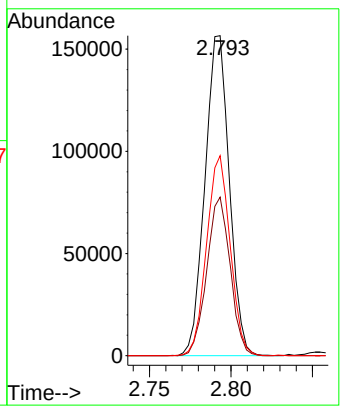




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.009 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 49 Resp: 16278

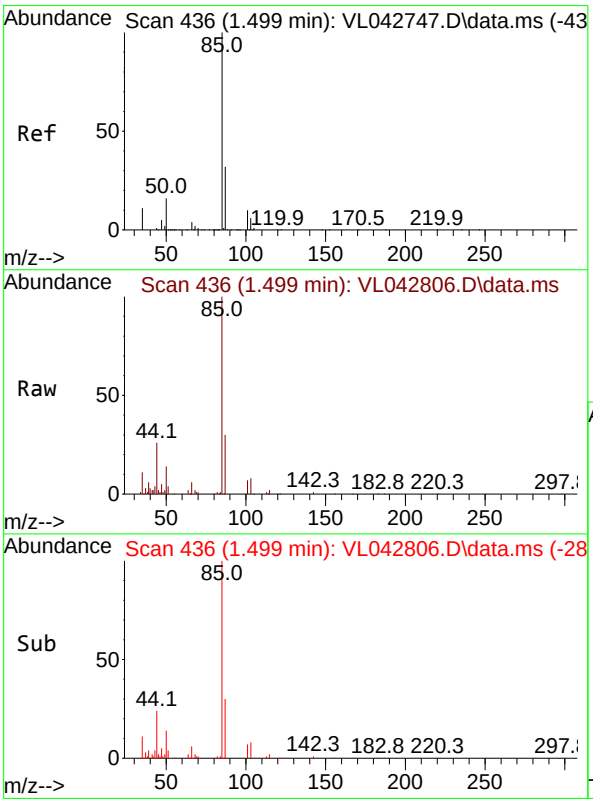
Ion	Ratio	Lower	Upper
49	100		
128	47.7	23.6	71.0
130	60.5	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

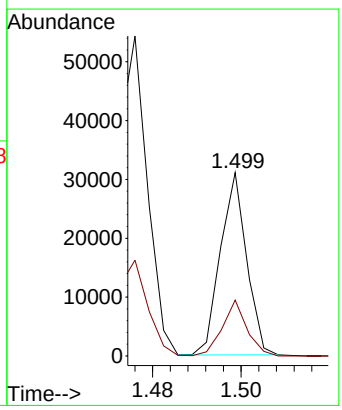
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

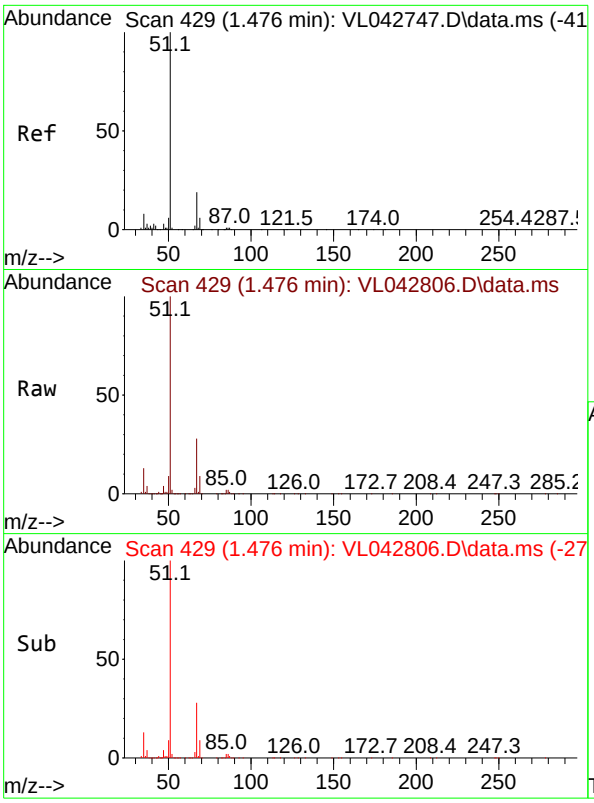


#2
Dichlorodifluoromethane
Concen: 0.593 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 85 Resp: 12758

Ion	Ratio	Lower	Upper
85	100		
87	30.7	25.4	38.2

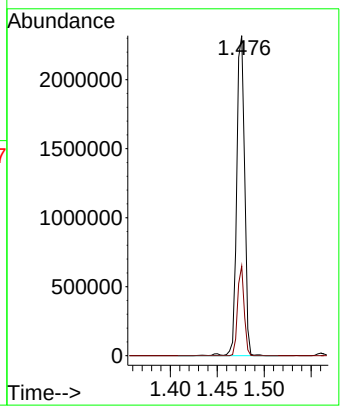




#3
Chlorodifluoromethane
Concen: 48.209 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 51 Resp: 135158

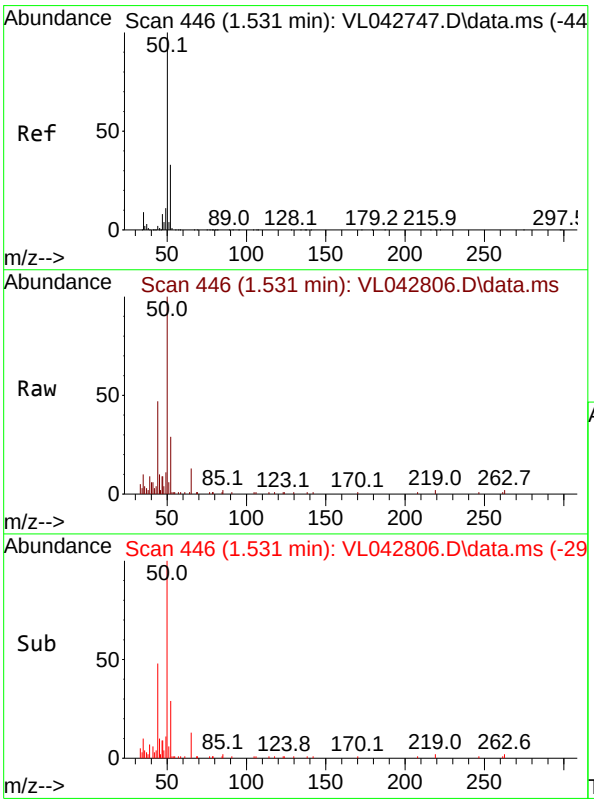
Ion	Ratio	Lower	Upper
51	100		
67	23.3	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

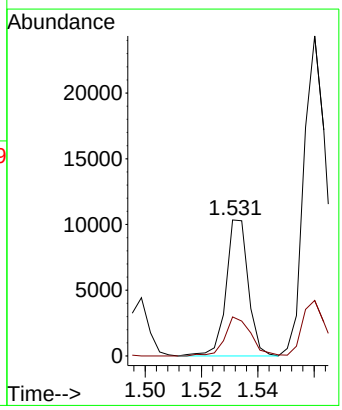
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

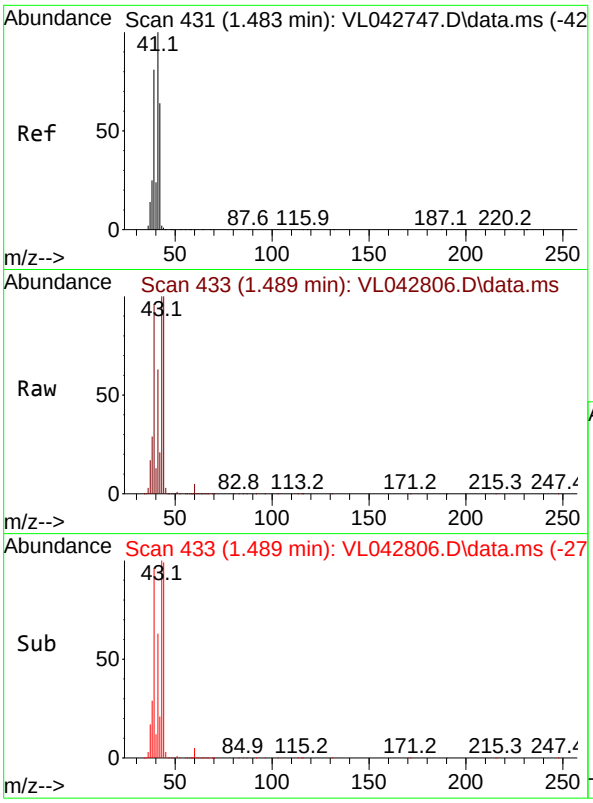


#4
Chloromethane
Concen: 0.654 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 50 Resp: 5691

Ion	Ratio	Lower	Upper
50	100		
52	28.7	26.6	40.0

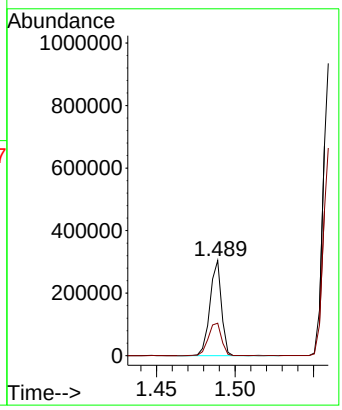




#9
Propene
Concen: 15.210 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 41 Resp: 15498

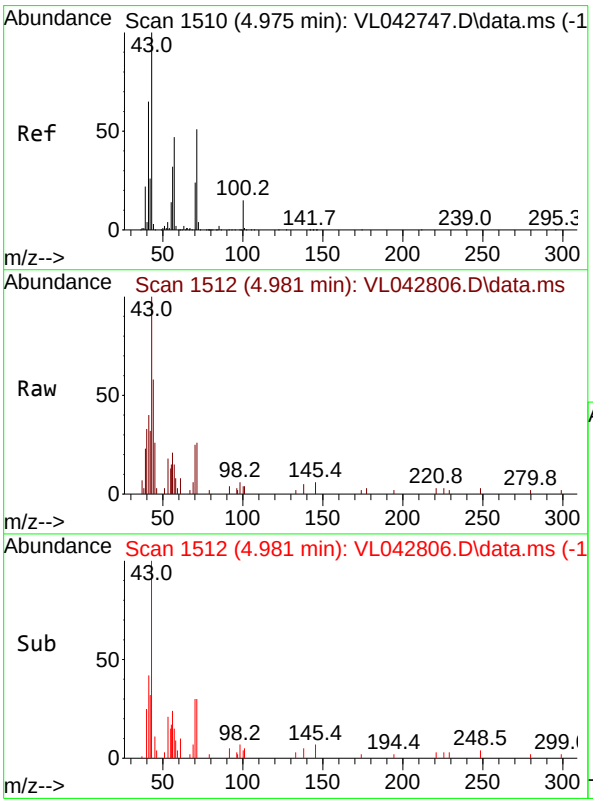
Ion	Ratio	Lower	Upper
41	100		
42	238.7	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

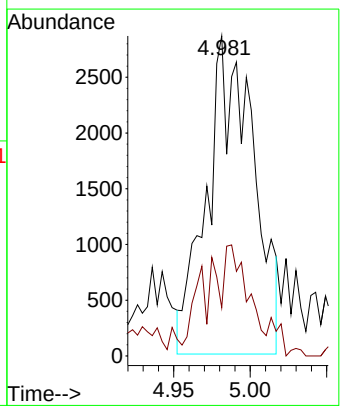
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

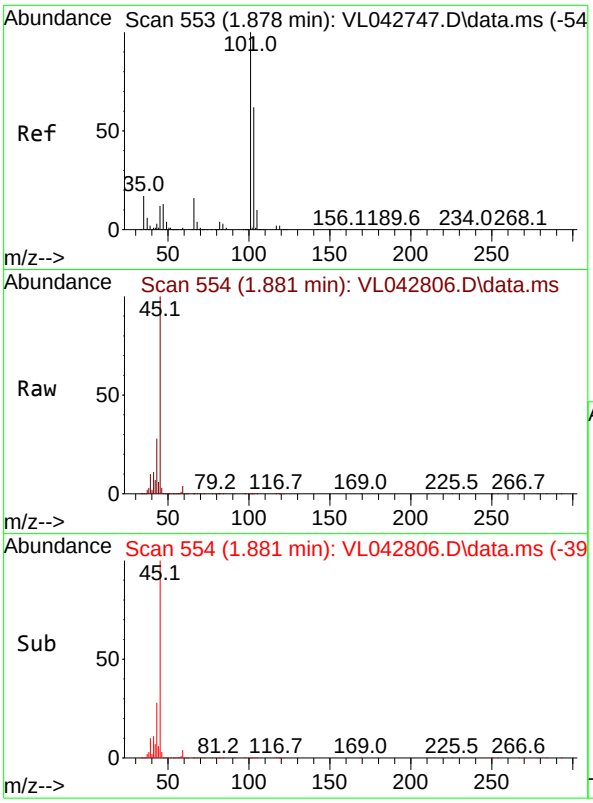


#10
Heptane
Concen: 0.220 ppbv m
RT: 4.981 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 43 Resp: 6039

Ion	Ratio	Lower	Upper
43	100		
57	44.2	39.9	59.9

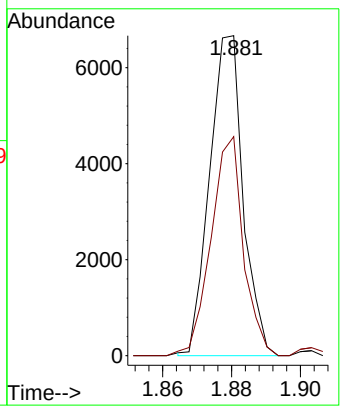




#11
Trichlorofluoromethane
Concen: 0.203 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion:101 Resp: 449

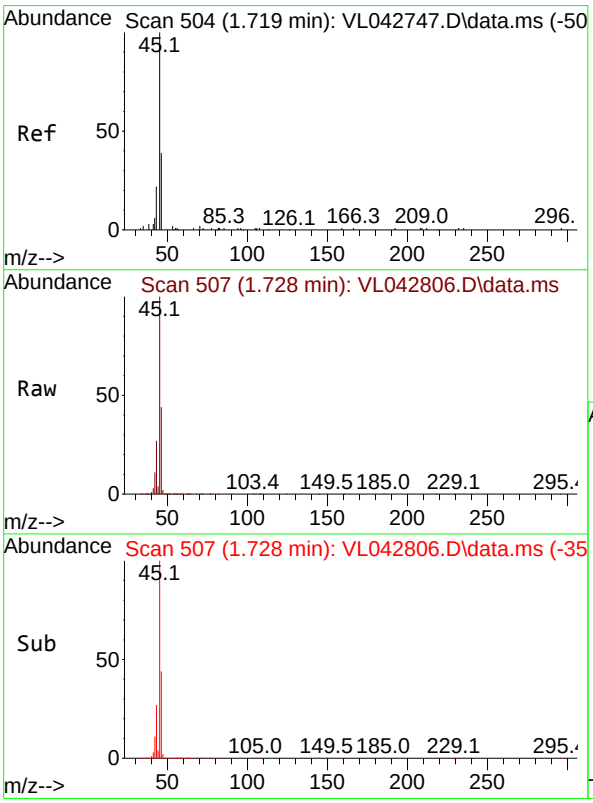
Ion	Ratio	Lower	Upper
101	100		
103	68.4	49.6	74.4



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

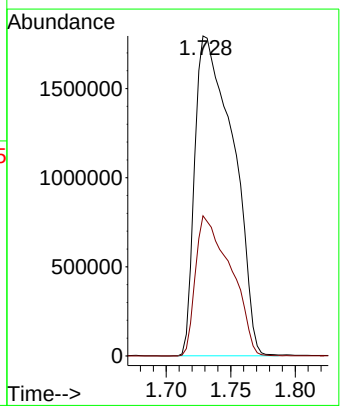
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

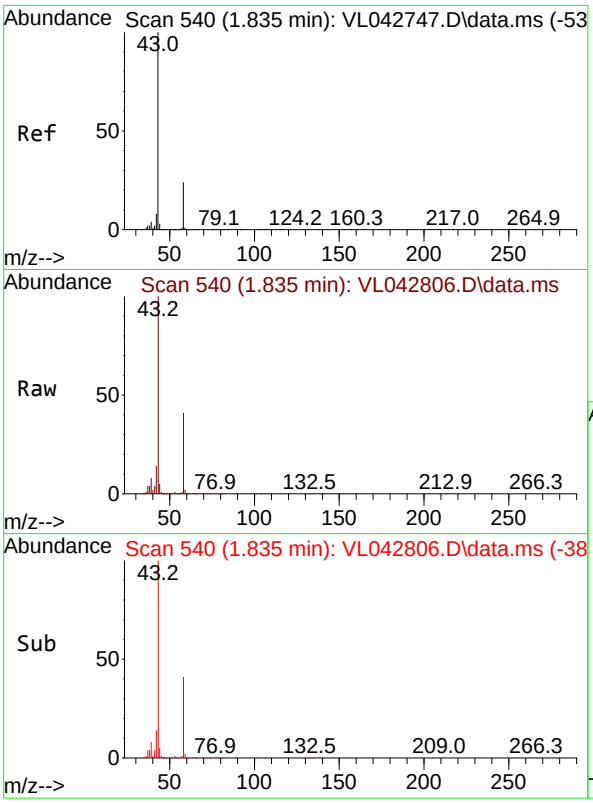


#13
Ethanol
Concen: 4986.827 ppbv
RT: 1.728 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 45 Resp: 3700748

Ion	Ratio	Lower	Upper
45	100		
46	40.5	17.8	71.4





#15
Acetone
Concen: 95.918 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

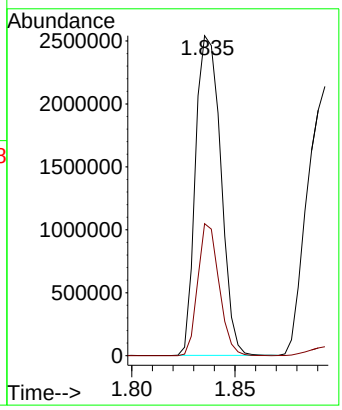
Tgt Ion: 43 Resp: 215598

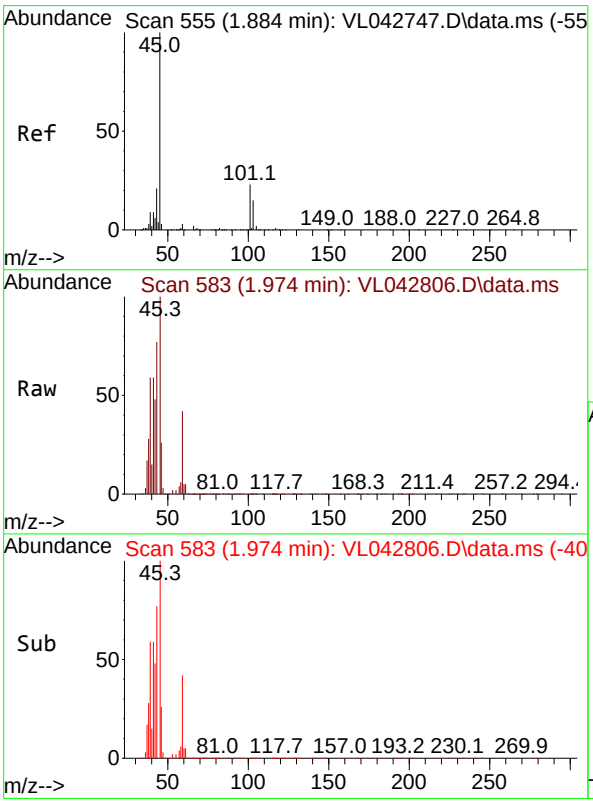
Ion	Ratio	Lower	Upper
43	100		
58	34.9	19.8	29.8#

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

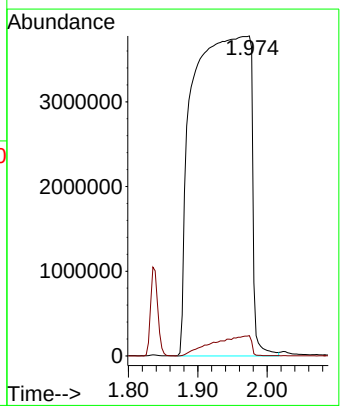


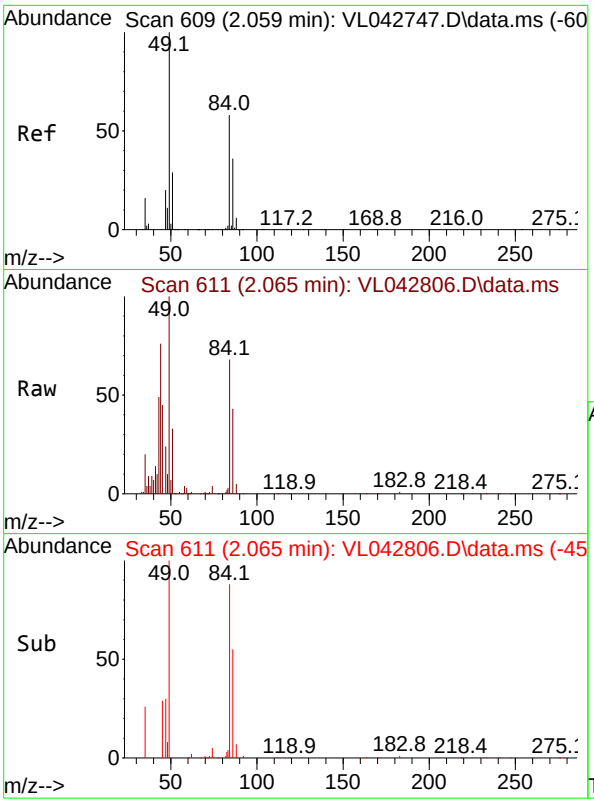


#19
Isopropyl Alcohol
Concen: 1818.473 ppbv m
RT: 1.974 min Scan# 583
Delta R.T. 0.090 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 45 Resp:21721192

Ion	Ratio	Lower	Upper
45	100		
58	0.0	30.0	45.0#

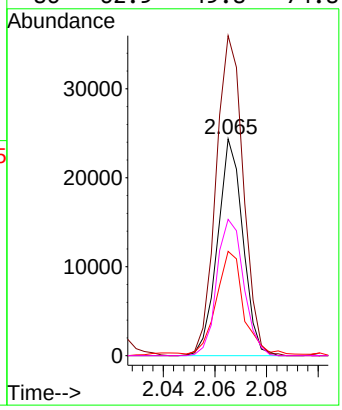




#20
Methylene Chloride
Concen: 2.345 ppbv
RT: 2.065 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 84 Resp: 1660

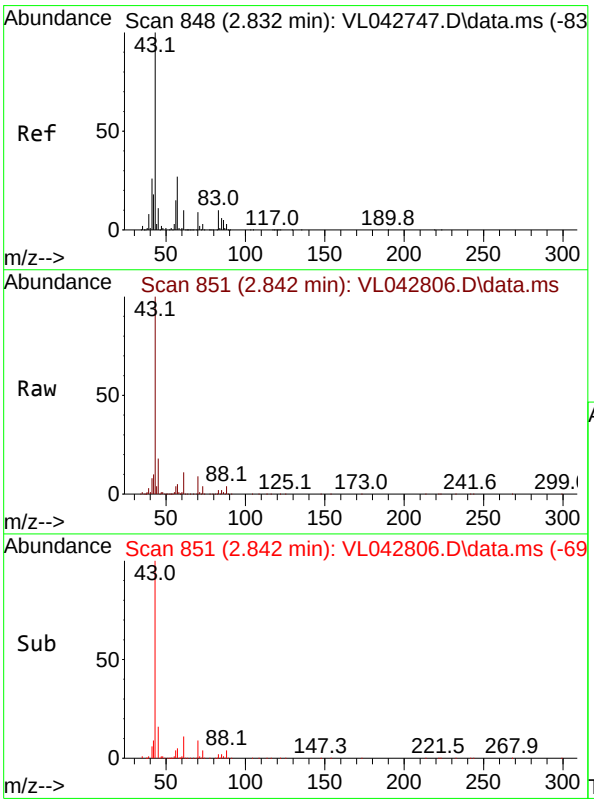
Ion	Ratio	Lower	Upper
84	100		
49	147.6	138.6	208.0
51	46.9	40.6	61.0
86	62.9	49.8	74.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

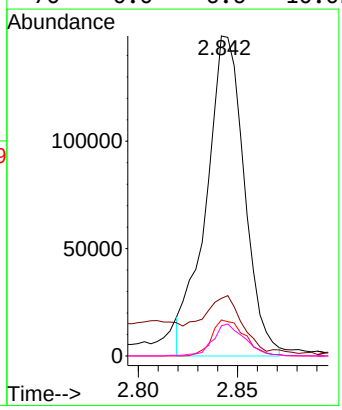
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

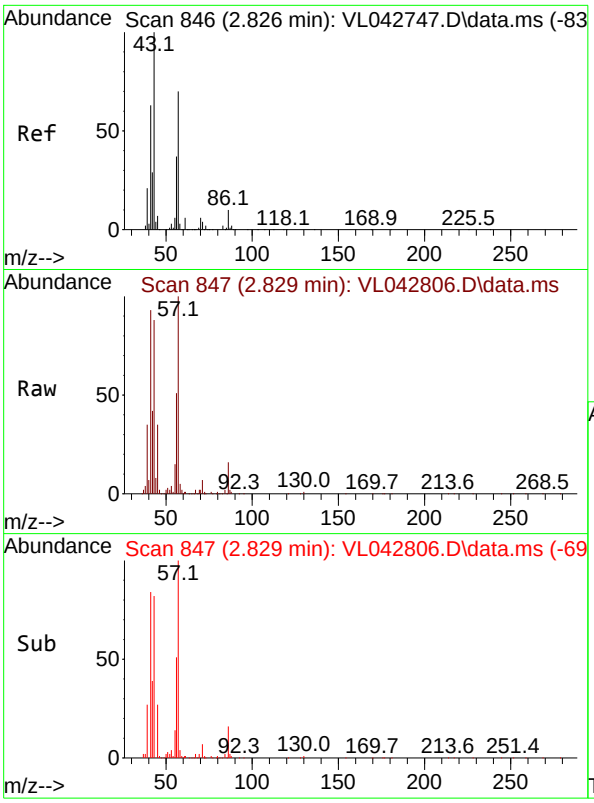


#25
Ethyl Acetate
Concen: 4.027 ppbv m
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 43 Resp: 200376

Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	6.7	10.1#
70	0.0	6.6	10.0#

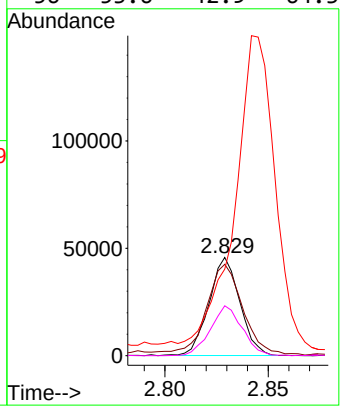




#26
Hexane
Concen: 2.163 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 57 Resp: 4721

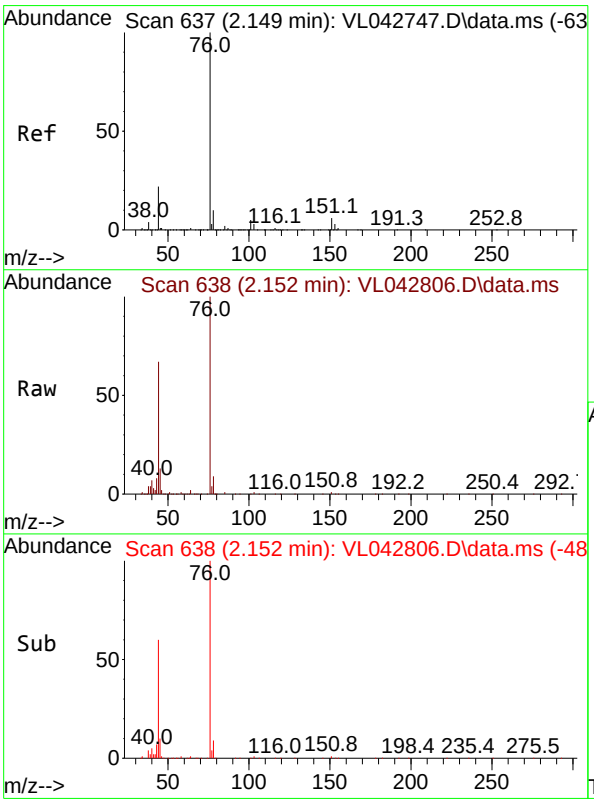
Ion	Ratio	Lower	Upper
57	100		
41	112.6	75.4	113.2
43	491.6	185.0	277.6#
56	53.6	42.9	64.3



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

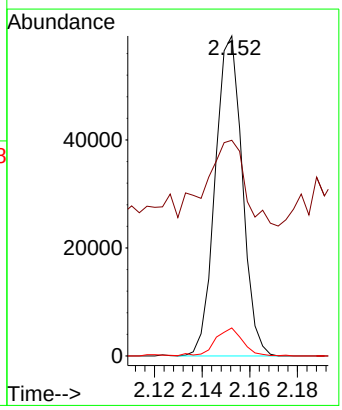
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

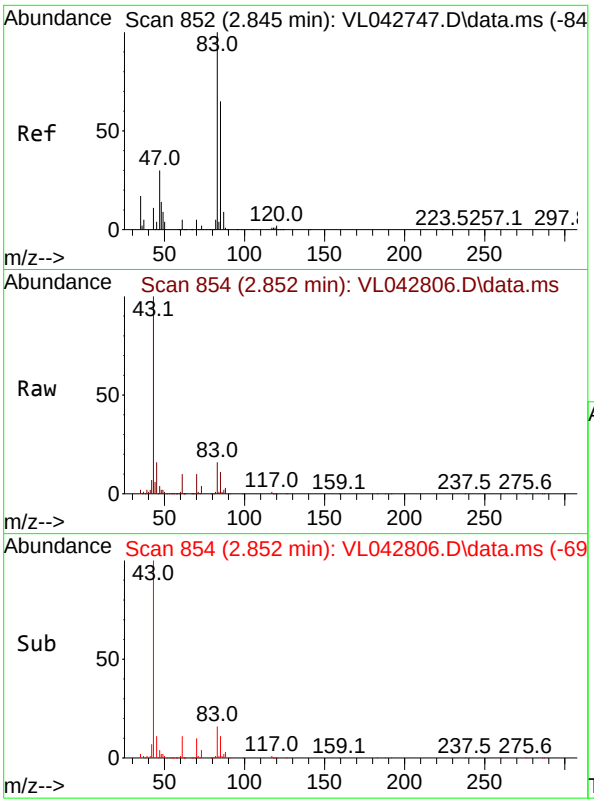


#27
Carbon Disulfide
Concen: 2.499 ppbv
RT: 2.152 min Scan# 638
Delta R.T. 0.003 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 76 Resp: 46700

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.3	9.9	14.9#

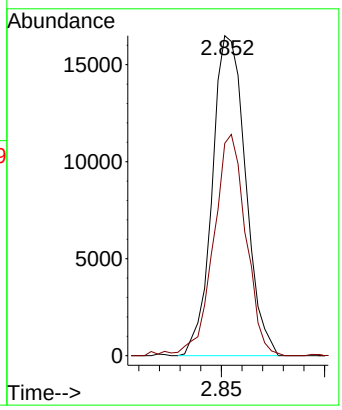




#29
Chloroform
Concen: 0.548 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 83 Resp: 1848

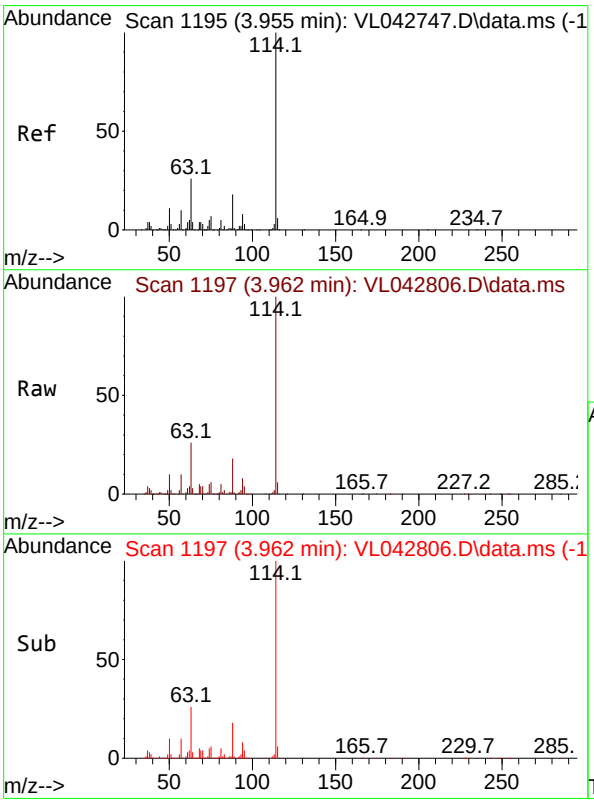
Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.2	78.2



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

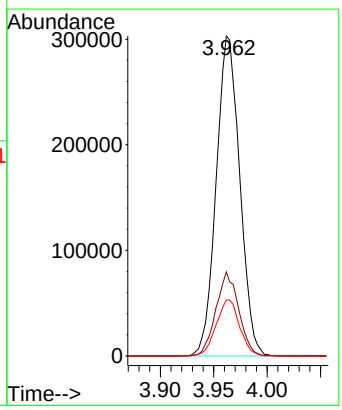
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

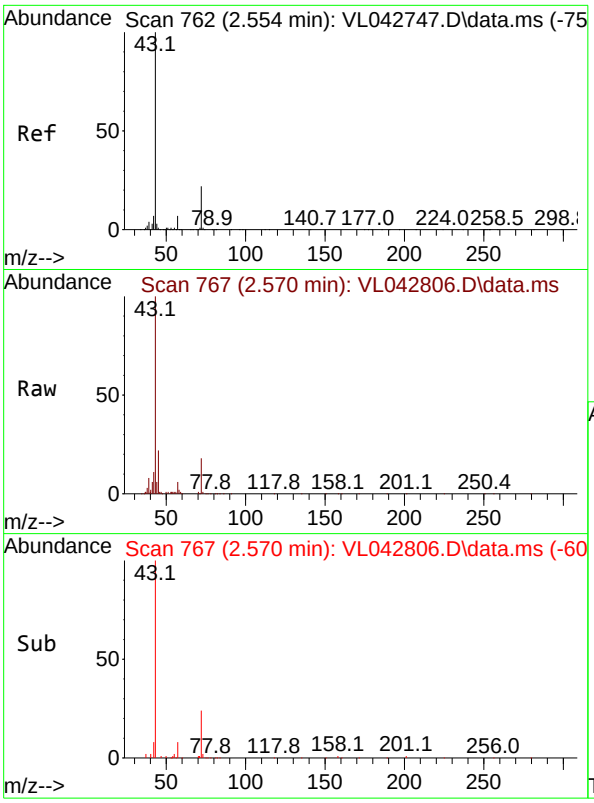


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion:114 Resp: 464881

Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.5	30.7
88	17.4	14.0	21.0





#34
2-Butanone
Concen: 1.301 ppbv m
RT: 2.570 min Scan# 7
Delta R.T. 0.016 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

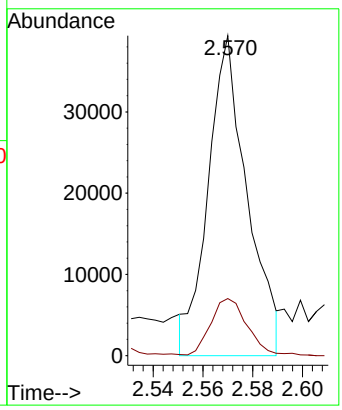
Tgt Ion: 43 Resp: 4282

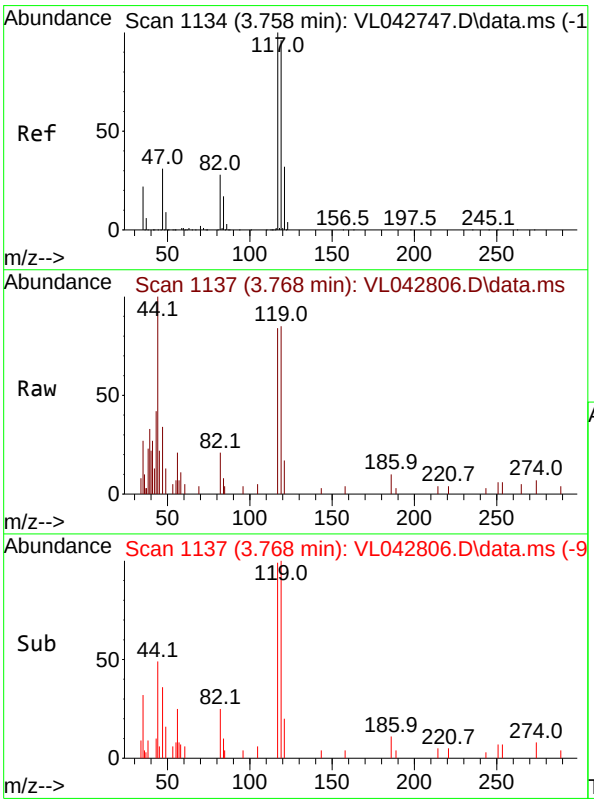
Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.4	26.0#

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

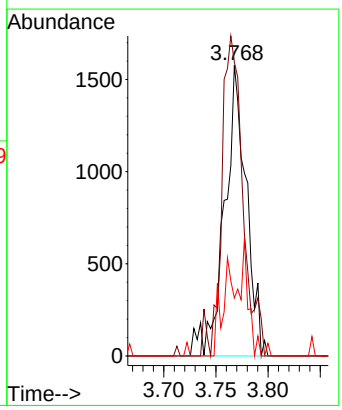


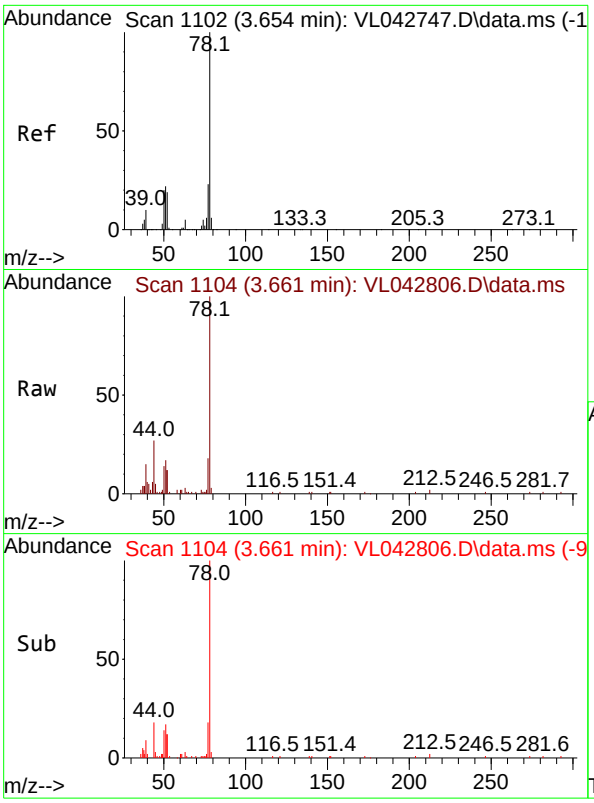


#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion:117 Resp: 2295

Ion	Ratio	Lower	Upper
117	100		
119	101.0	77.1	115.7
121	19.9	25.5	38.3#

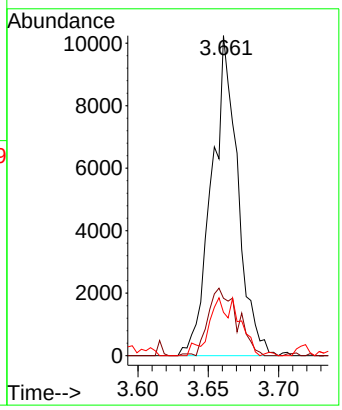




#36
Benzene
Concen: 0.300 ppbv
RT: 3.661 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 78 Resp: 1322

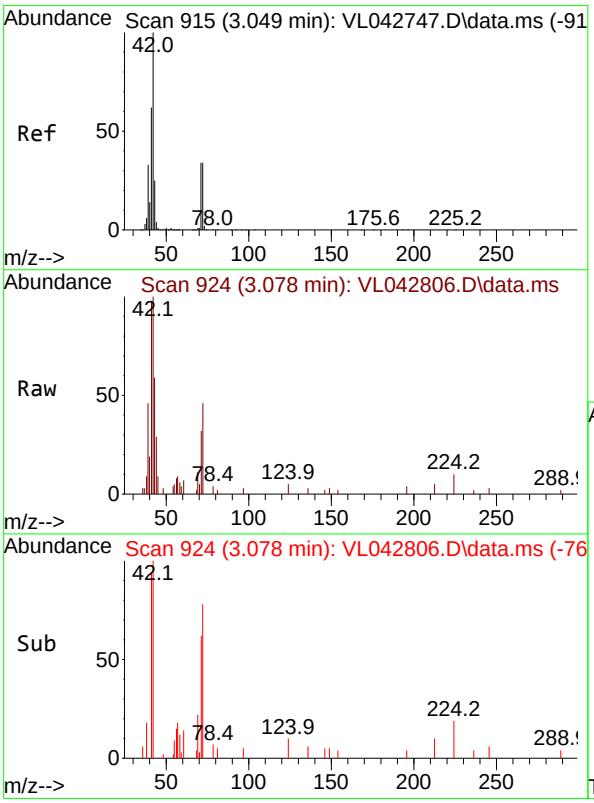
Ion	Ratio	Lower	Upper
78	100		
77	17.9	18.5	27.7#
50	13.5	16.2	24.2#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

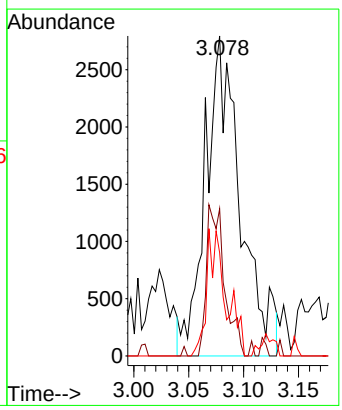
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

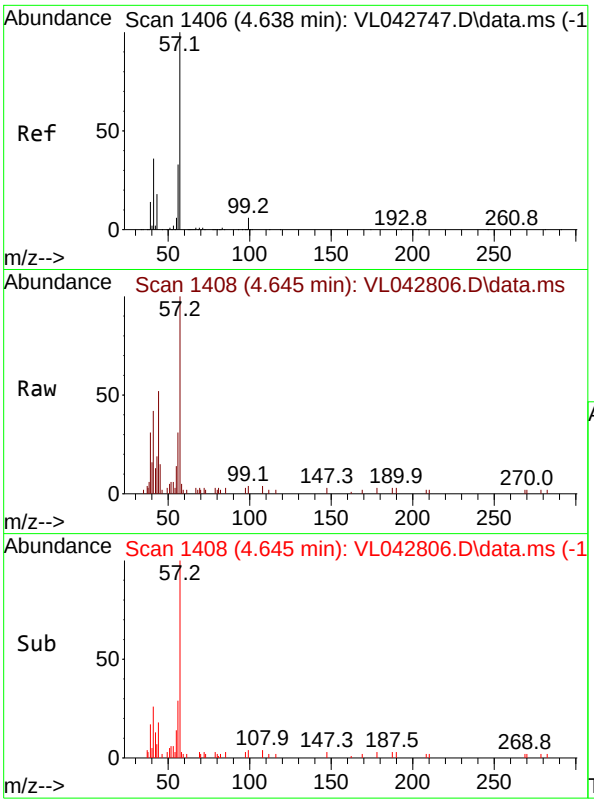


#41
Tetrahydrofuran
Concen: 0.371 ppbv m
RT: 3.078 min Scan# 924
Delta R.T. 0.029 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 42 Resp: 6216

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	0.0	28.6	43.0#

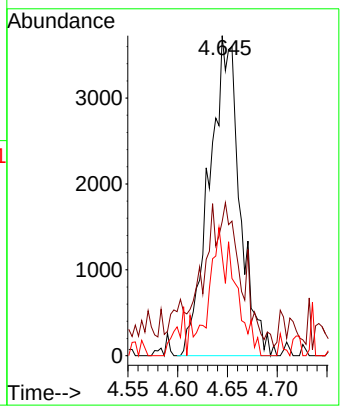




#44
2,2,4-Trimethylpentane
Concen: 0.111 ppbv m
RT: 4.645 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 57 Resp: 797

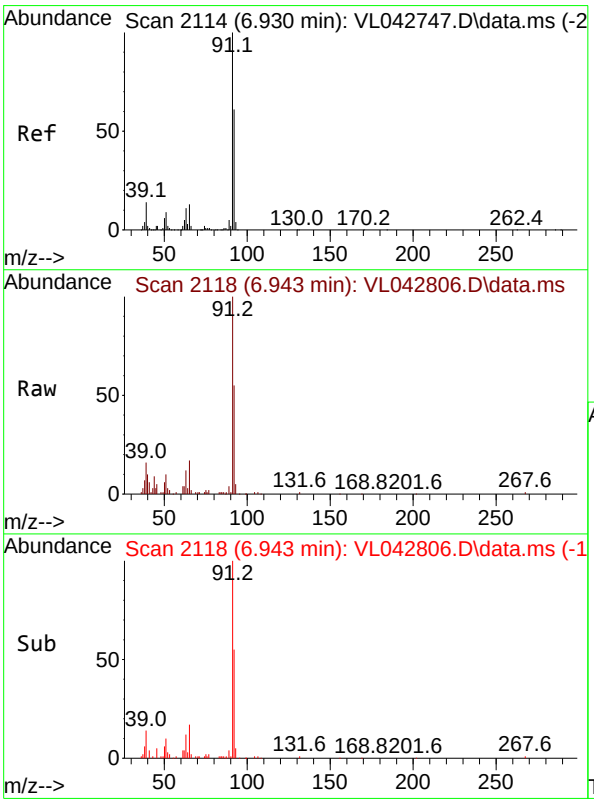
Ion	Ratio	Lower	Upper
57	100		
41	65.2	28.3	42.5#
56	38.8	25.8	38.6#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

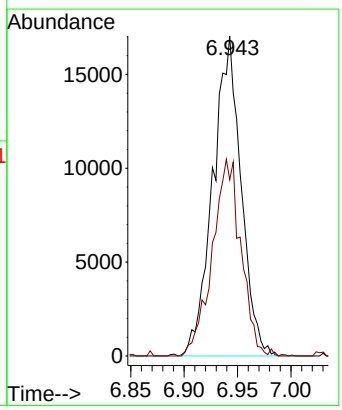
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

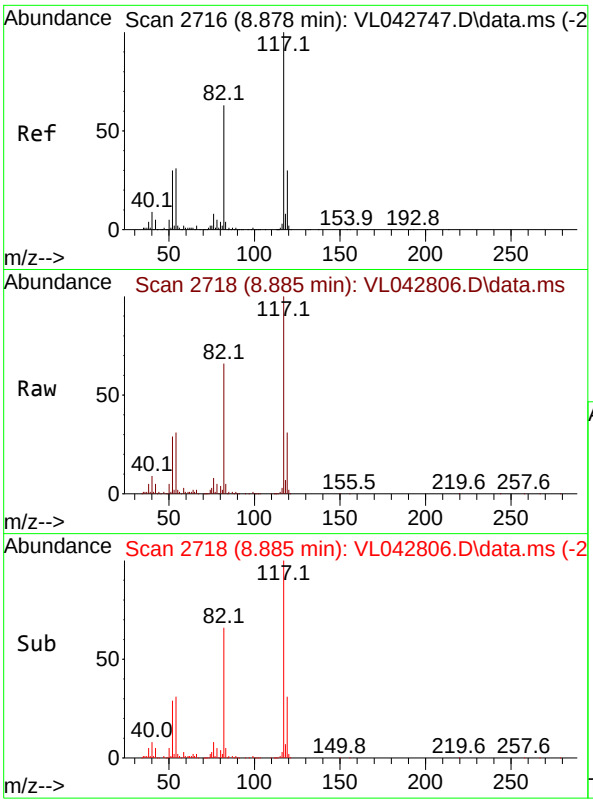


#53
Toluene
Concen: 0.662 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 91 Resp: 31303

Ion	Ratio	Lower	Upper
91	100		
92	62.7	48.0	72.0

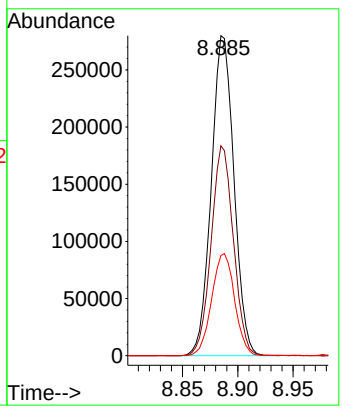




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion:117 Resp: 39836

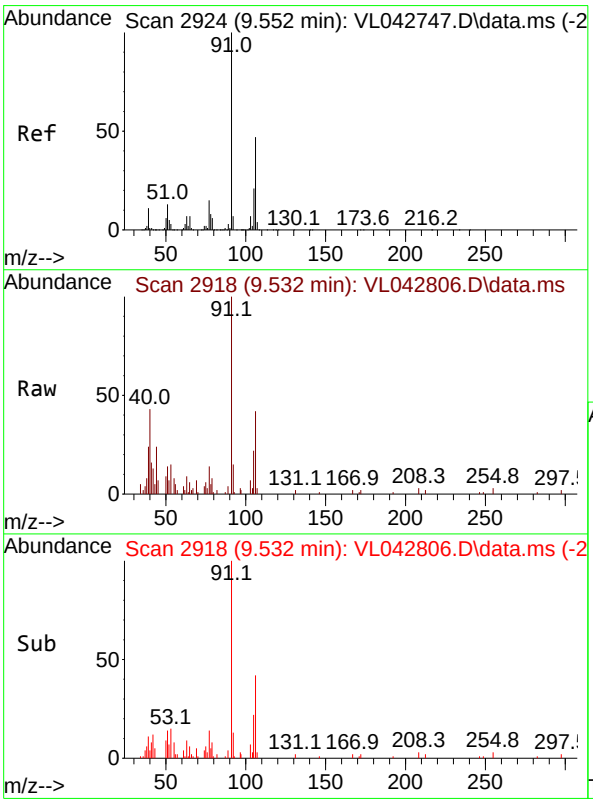
Ion	Ratio	Lower	Upper
117	100		
82	64.7	53.3	79.9
119	32.5	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

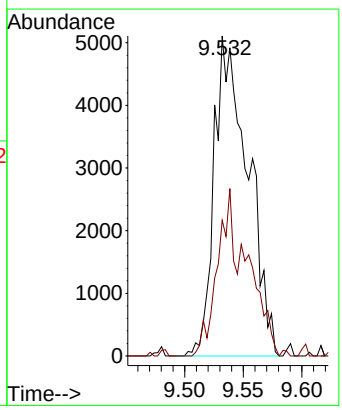
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

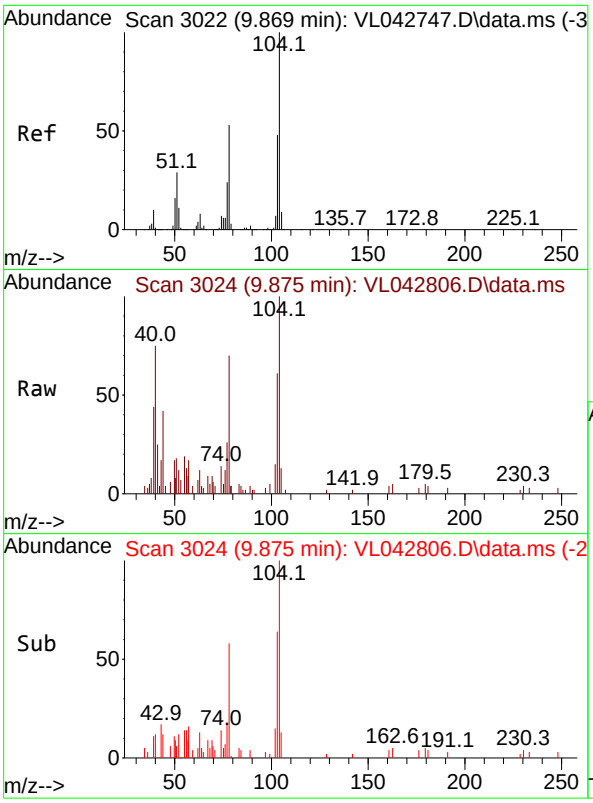


#59
m/p-Xylene
Concen: 0.203 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.020 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 91 Resp: 10202

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

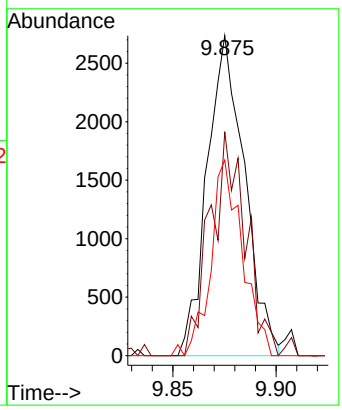




#61
Styrene
Concen: 0.163 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion:104 Resp: 344

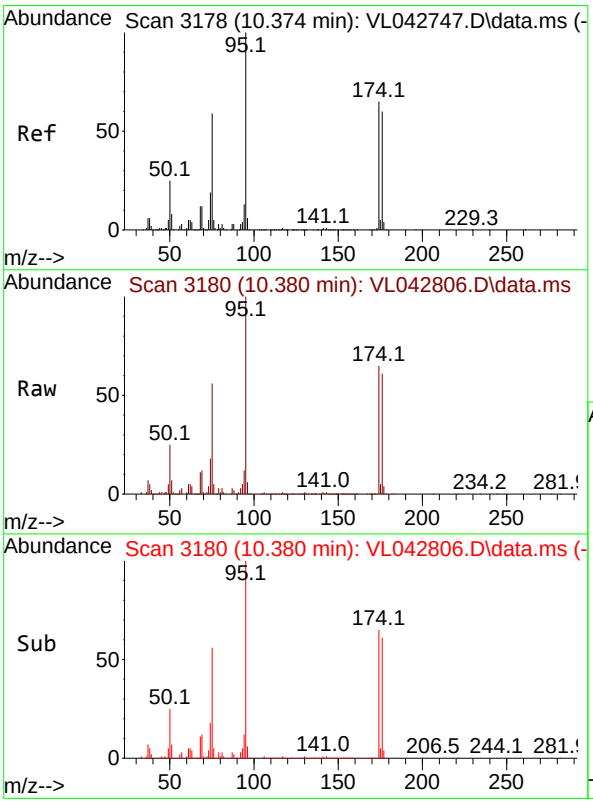
Ion	Ratio	Lower	Upper
104	100		
78	67.5	41.5	62.3#
103	51.6	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

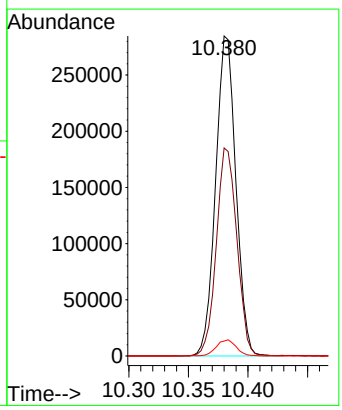
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

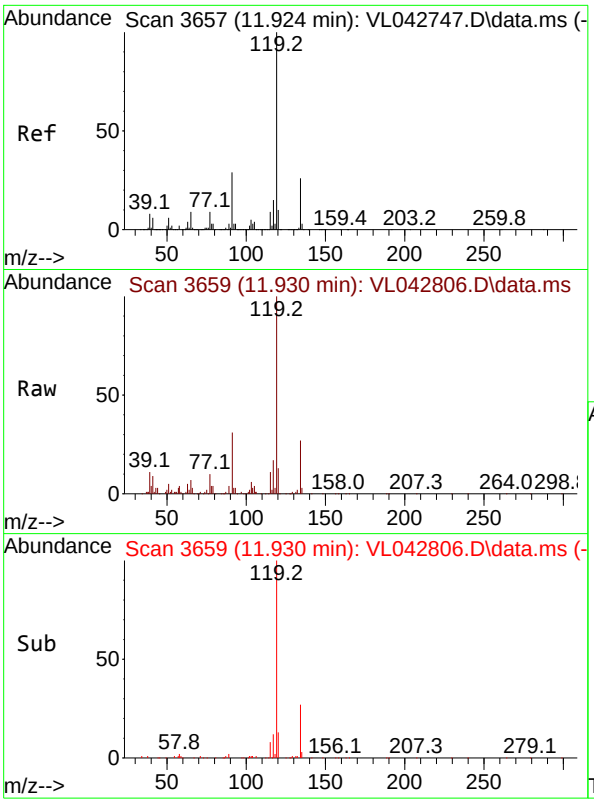


#68
1-Bromo-4-Fluorobenzene
Concen: 10.648 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 95 Resp: 335920

Ion	Ratio	Lower	Upper
95	100		
174	65.9	53.8	80.6
175	5.0	4.0	6.0





#69
p-Isopropyltoluene
Concen: 0.590 ppbv
RT: 11.930 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

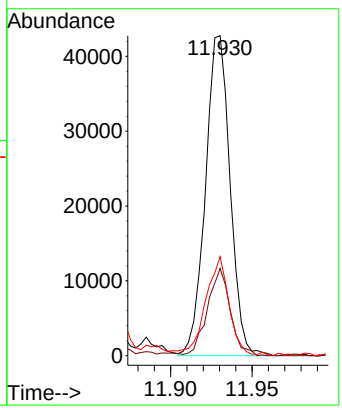
Tgt Ion:119 Resp: 4503

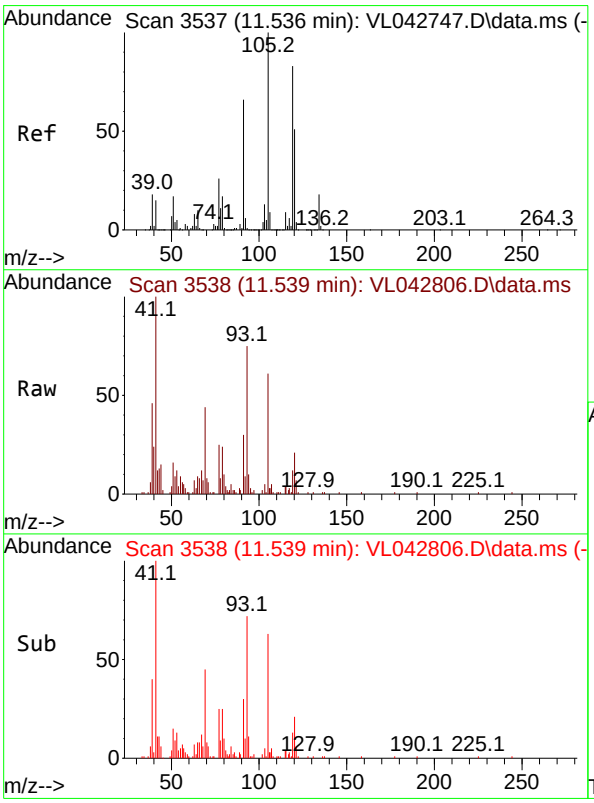
Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.6	31.0
91	30.4	23.2	34.8

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

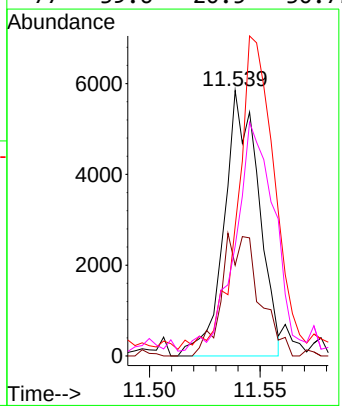


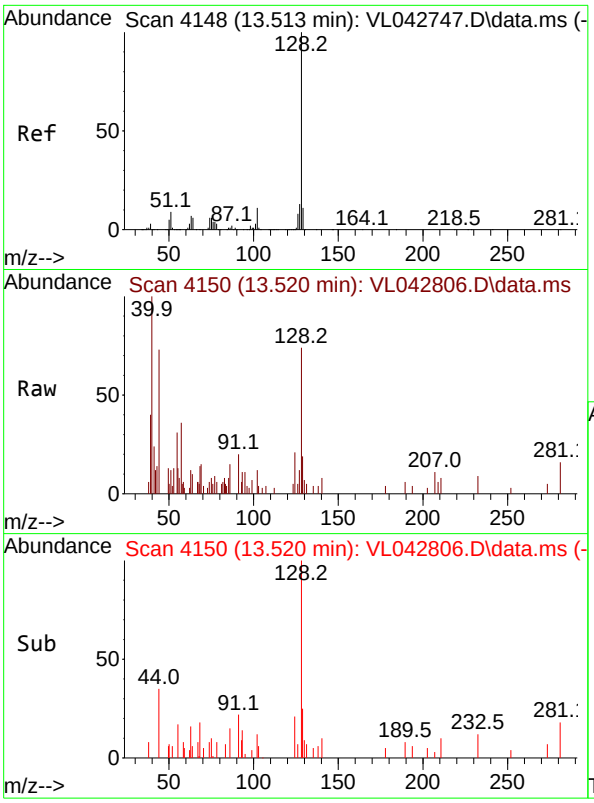


#74
1,2,4-Trimethylbenzene
Concen: 0.117 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion:105 Resp: 6323

Ion	Ratio	Lower	Upper
105	100		
120	34.2	40.8	61.2#
91	46.3	53.0	79.4#
77	39.6	20.5	30.7#

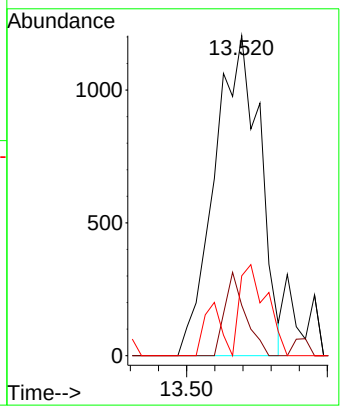




#79
Naphthalene
Concen: 0.457 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion:128 Resp: 134

Ion	Ratio	Lower	Upper
128	100		
127	15.8	10.5	15.7#
129	25.0	8.6	13.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042806.D
Acq On : 04 Aug 2025 15:44
Operator : SY/MD
Sample : Q2750-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042806.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.427	410	414	417	rBV	4763234	5005736	10.54%	3.999%
2	1.440	417	418	424	rVV	4460637	1863388	3.92%	1.489%
3	1.476	424	429	431	rVV	4285514	2478155	5.22%	1.980%
4	1.489	431	433	440	rVB	2178954	964602	2.03%	0.771%
5	1.560	451	455	460	rBV	4714628	2484908	5.23%	1.985%
6	1.728	501	507	526	rBV	3439109	6851145	14.43%	5.474%
7	1.835	536	540	551	rBV	4752713	3773375	7.95%	3.015%
8	1.929	551	569	570	rBV2	17712411	43153903	90.87%	34.478%
9	1.974	570	583	586	rVB	18330156	47487266	100.00%	37.940%
10	2.793	827	836	842	rBV	617804	651873	1.37%	0.521%
11	2.842	842	851	866	rVB2	284855	571574	1.20%	0.457%
12	3.962	1182	1197	1215	rVB	780401	1224588	2.58%	0.978%
13	8.885	2706	2718	2730	rBV	984710	1427640	3.01%	1.141%
14	10.380	3167	3180	3194	rBV	1349492	1650044	3.47%	1.318%
15	10.862	3320	3329	3340	rVB	469757	561639	1.18%	0.449%
16	11.429	3495	3504	3515	rVB	691924	770016	1.62%	0.615%
17	11.853	3627	3635	3643	rBV	1161586	1211888	2.55%	0.968%
18	12.047	3686	3695	3705	rBV	2900775	3032663	6.39%	2.423%

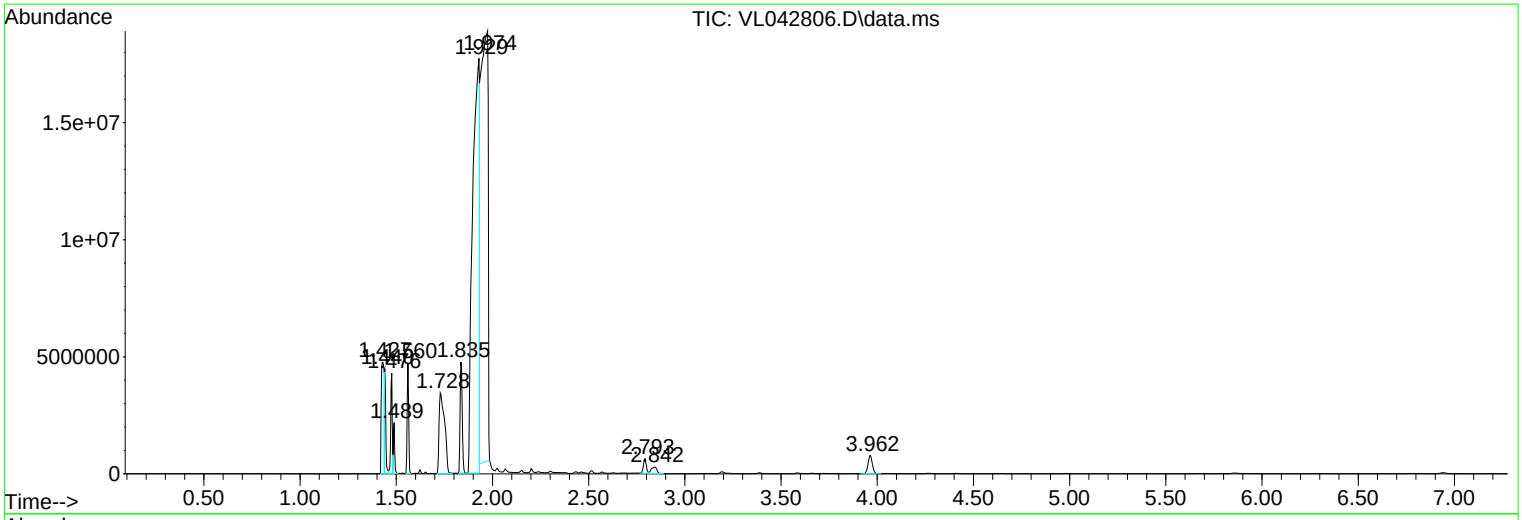
Sum of corrected areas: 125164403

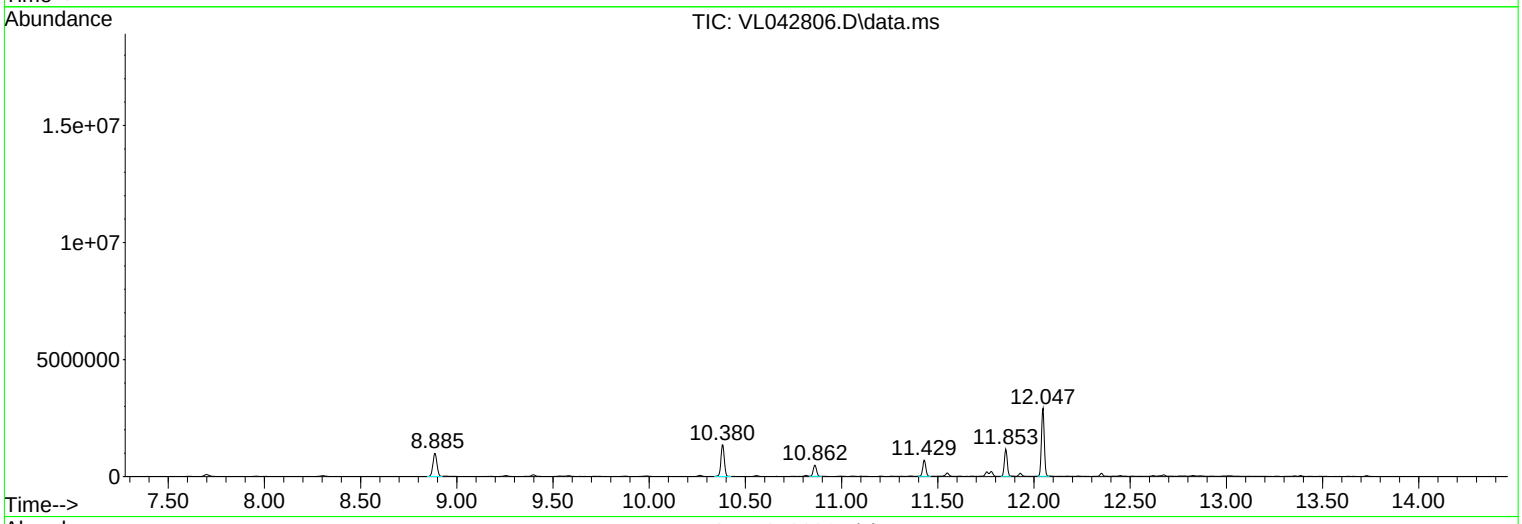
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042806.D
Acq On : 04 Aug 2025 15:44
Operator : SY/MD
Sample : Q2750-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

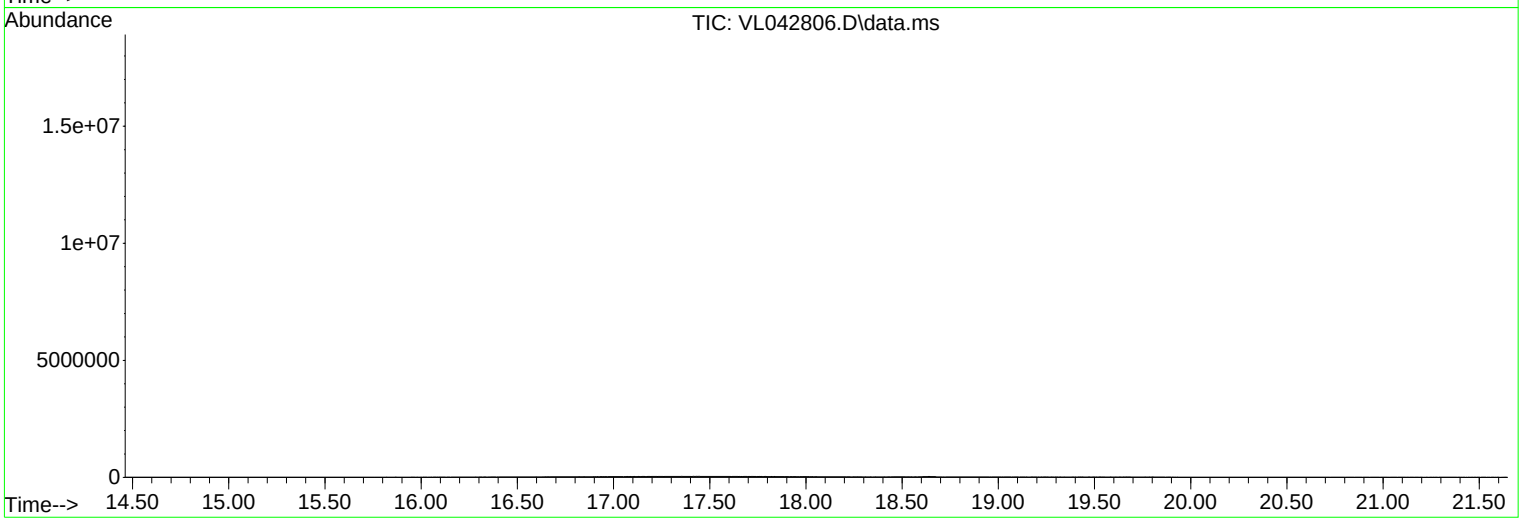
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042806.D
Acq On : 04 Aug 2025 15:44
Operator : SY/MD
Sample : Q2750-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

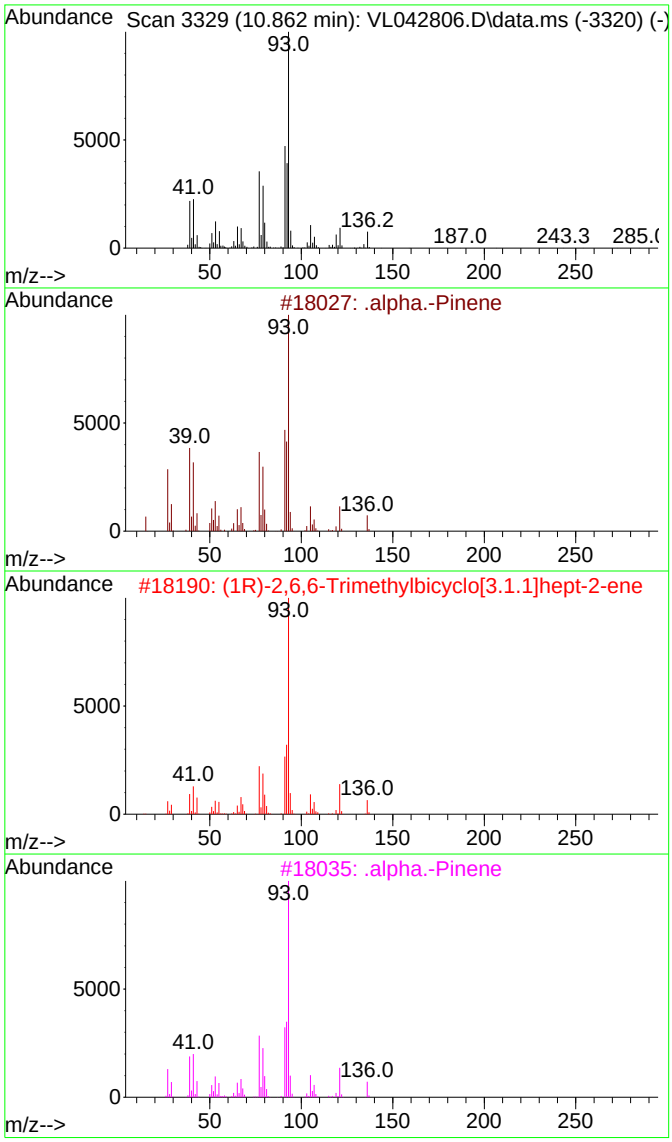
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

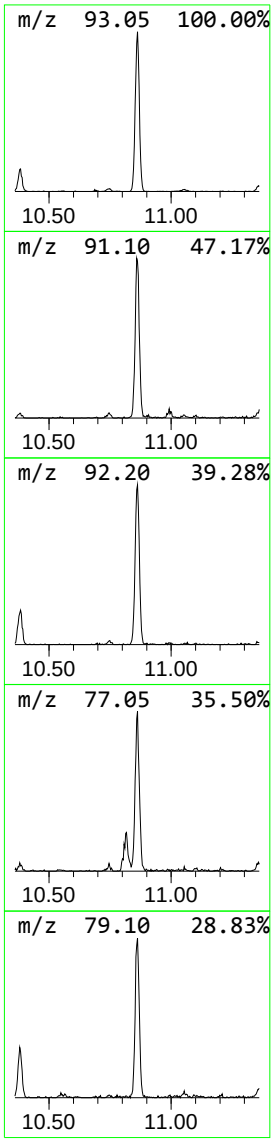
****

Peak Number 1 .alpha.-Pinene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.862	3.93 ppbv	561639	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Pinene	136	C10H16	000080-56-8	95
2	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	91
3	.alpha.-Pinene	136	C10H16	000080-56-8	90
4	(1S)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-26-4	90
5	.alpha.-Pinene	136	C10H16	000080-56-8	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042806.D
Acq On : 04 Aug 2025 15:44
Operator : SY/MD
Sample : Q2750-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

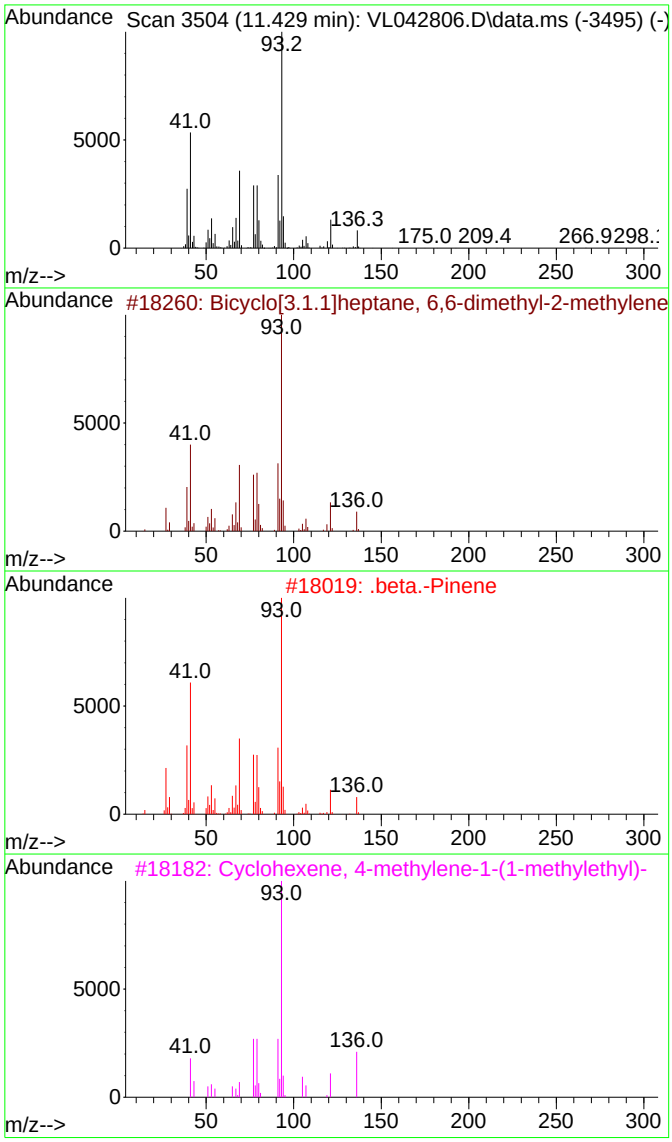
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

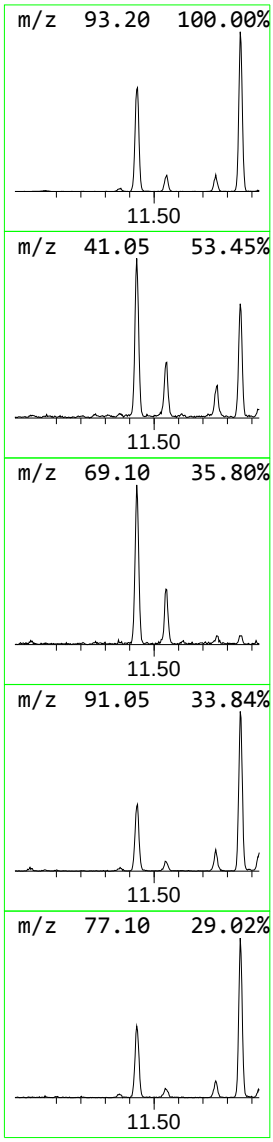
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Bicyclo[3.1.1]heptane, 6,6-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.429	5.39 ppbv	770016	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	96
2	.beta.-Pinene	136	C10H16	000127-91-3	96
3	Cyclohexene, 4-methylene-1-(1-me...	136	C10H16	000099-84-3	91
4	Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	91
5	.beta.-Pinene	136	C10H16	000127-91-3	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042806.D
Acq On : 04 Aug 2025 15:44
Operator : SY/MD
Sample : Q2750-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

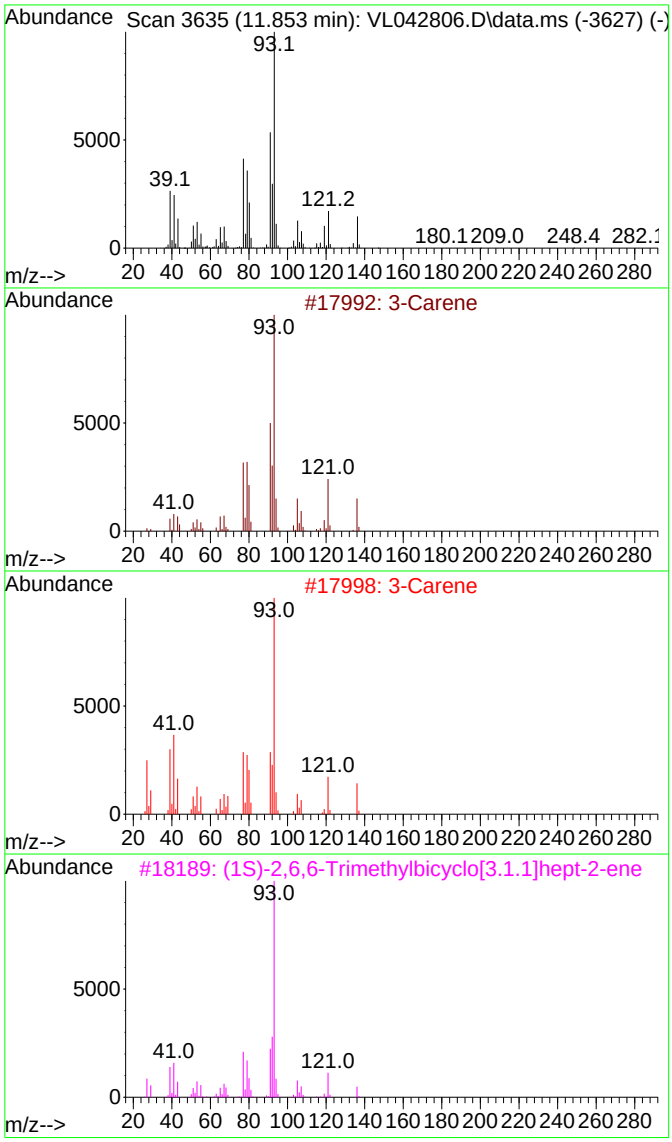
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

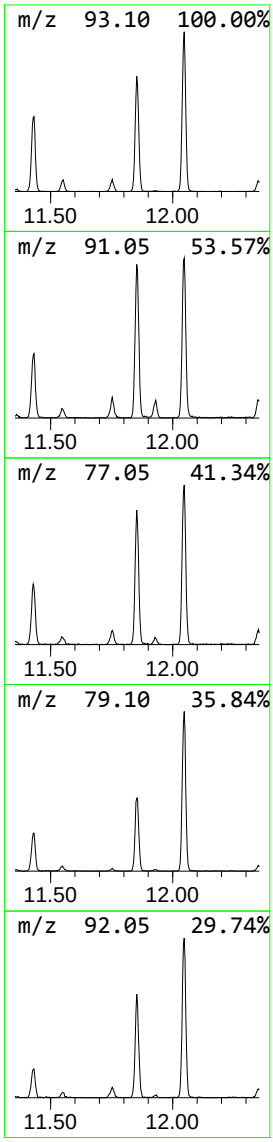
****

Peak Number 3 3-Carene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.853	8.49 ppbv	1211890	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Carene	136	C10H16	013466-78-9	95
2	3-Carene	136	C10H16	013466-78-9	95
3	(1S)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-26-4	95
4	3-Carene	136	C10H16	013466-78-9	90
5	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042806.D
Acq On : 04 Aug 2025 15:44
Operator : SY/MD
Sample : Q2750-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

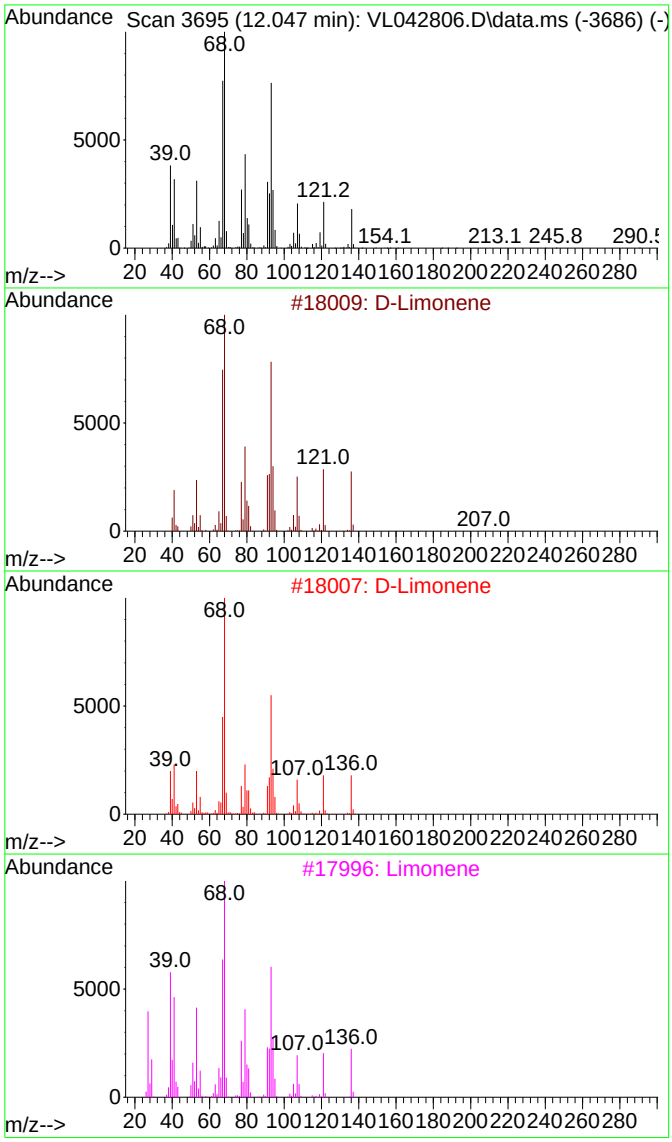
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

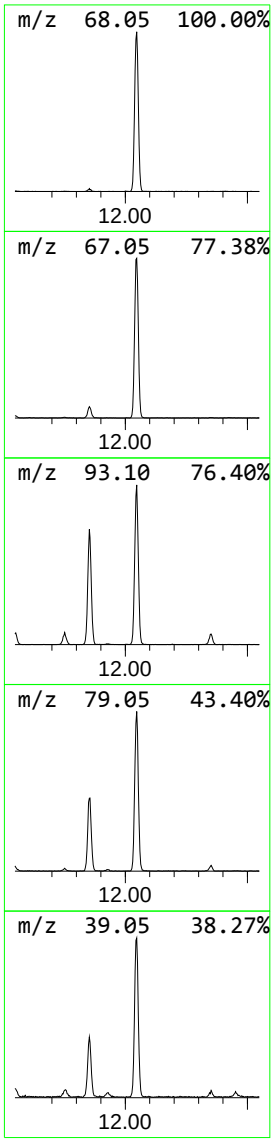
****

Peak Number 4 D-Limonene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.047	21.24 ppbv	3032660	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	98
2	D-Limonene	136	C10H16	005989-27-5	94
3	Limonene	136	C10H16	000138-86-3	94
4	D-Limonene	136	C10H16	005989-27-5	93
5	D-Limonene	136	C10H16	005989-27-5	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042806.D
Acq On : 04 Aug 2025 15:44
Operator : SY/MD
Sample : Q2750-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
.alpha.-Pinene	10.862	3.9	ppbv	561639	3	8.885	1427640	10.0
Bicyclo[3.1.1]h...	11.429	5.4	ppbv	770016	3	8.885	1427640	10.0
3-Carene	11.853	8.5	ppbv	1211890	3	8.885	1427640	10.0
D-Limonene	12.047	21.2	ppbv	3032660	3	8.885	1427640	10.0

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-8DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-07DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042818.D	20		08/04/25 22:31	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.20	10.9	UD	10.9	49.5	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.50	1.28	UD	1.28	1.53	ug/m3
74-83-9	Bromomethane	1.50	5.82	UD	5.82	38.8	ug/m3
75-00-3	Chloroethane	3.00	7.92	UD	7.92	26.4	ug/m3
109-99-9	Tetrahydrofuran	1.60	4.72	UD	4.72	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.40	19.1	UD	19.1	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	2.80	21.5	UD	21.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.00	21.0	UD	21.0	69.9	ug/m3
75-65-0	tert-Butyl alcohol	3.20	9.70	UD	9.70	30.3	ug/m3
142-82-5	Heptane	3.40	13.9	UD	13.9	41.0	ug/m3
75-35-4	1,1-Dichloroethene	3.00	11.9	UD	11.9	39.6	ug/m3
67-64-1	Acetone	150	356	D	8.55	23.8	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.60	16.6	UD	16.6	36.0	ug/m3
75-09-2	Methylene Chloride	6.40	22.2	JD	16.0	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	2.40	9.52	UD	9.52	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	1.10	3.24	UD	3.24	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.50	3.15	UD	3.15	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	2.00	7.93	UD	7.93	39.6	ug/m3
67-66-3	Chloroform	1.90	9.28	UD	9.28	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.32	1.75	UD	1.75	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	2.80	13.1	UD	13.1	46.7	ug/m3
71-43-2	Benzene	1.60	5.11	UD	5.11	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.90	7.69	UD	7.69	40.5	ug/m3
79-01-6	Trichloroethene	0.48	2.58	UD	2.58	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.60	12.0	UD	12.0	46.2	ug/m3
75-27-4	Bromodichloromethane	1.30	8.71	UD	8.71	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	3.20	12.1	UD	12.1	37.7	ug/m3
10061-02-6	t-1,3-Dichloropropene	3.00	13.6	UD	13.6	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.20	9.99	UD	9.99	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.60	8.73	UD	8.73	54.6	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-8DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-07DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042818.D	20		08/04/25 22:31	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	1.70	14.5	UD	14.5	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.70	13.1	UD	13.1	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	3.80	16.5	UD	16.5	43.4	ug/m3
179601-23-1	m/p-Xylene	8.20	35.6	UD	35.6	86.9	ug/m3
95-47-6	o-Xylene	4.20	18.2	UD	18.2	43.4	ug/m3
100-42-5	Styrene	3.20	13.6	UD	13.6	42.6	ug/m3
75-25-2	Bromoform	0.96	9.93	UD	9.93	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.36	2.47	UD	2.47	4.12	ug/m3
95-49-8	2-Chlorotoluene	3.40	17.6	UD	17.6	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	4.20	31.2	UD	31.2	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	2.60	27.7	UD	27.7	107	ug/m3
106-99-0	1,3-Butadiene	1.00	2.21	UD	2.21	22.1	ug/m3
91-20-3	Naphthalene	0.26	1.36	UD	1.36	10.5	ug/m3
622-96-8	4-Ethyltoluene	4.20	20.6	UD	20.6	49.2	ug/m3
110-54-3	Hexane	3.20	11.3	UD	11.3	35.2	ug/m3
107-05-1	Allyl Chloride	2.20	6.89	UD	6.89	31.3	ug/m3
123-91-1	1,4-Dioxane	4.40	15.9	UD	15.9	36.0	ug/m3
80-62-6	Methyl Methacrylate	2.80	11.5	UD	11.5	41.0	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			70 (65) - 130 (135)	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	147000		2.784			
540-36-3	1,4-Difluorobenzene	382000		3.956			
3114-55-4	Chlorobenzene-d5	323000		8.875			

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-8DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-07DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042818.D	20		08/04/25 22:31	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042818.D
Acq On : 04 Aug 2025 22:31
Operator : SY/MD
Sample : Q2750-07DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:14:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	146776	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	381523	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	323135	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	246263	9.623	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.200%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.473	51	88603	3.505	ppbv	100
9) Propene	1.486	41	7741m	0.843	ppbv	
13) Ethanol	1.719	45	184153	274.119	ppbv	89
15) Acetone	1.832	43	153225	7.560	ppbv	99
19) Isopropyl Alcohol	1.891	45	4073948	378.255	ppbv #	40
20) Methylene Chloride	2.059	84	2037	0.319	ppbv	87

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

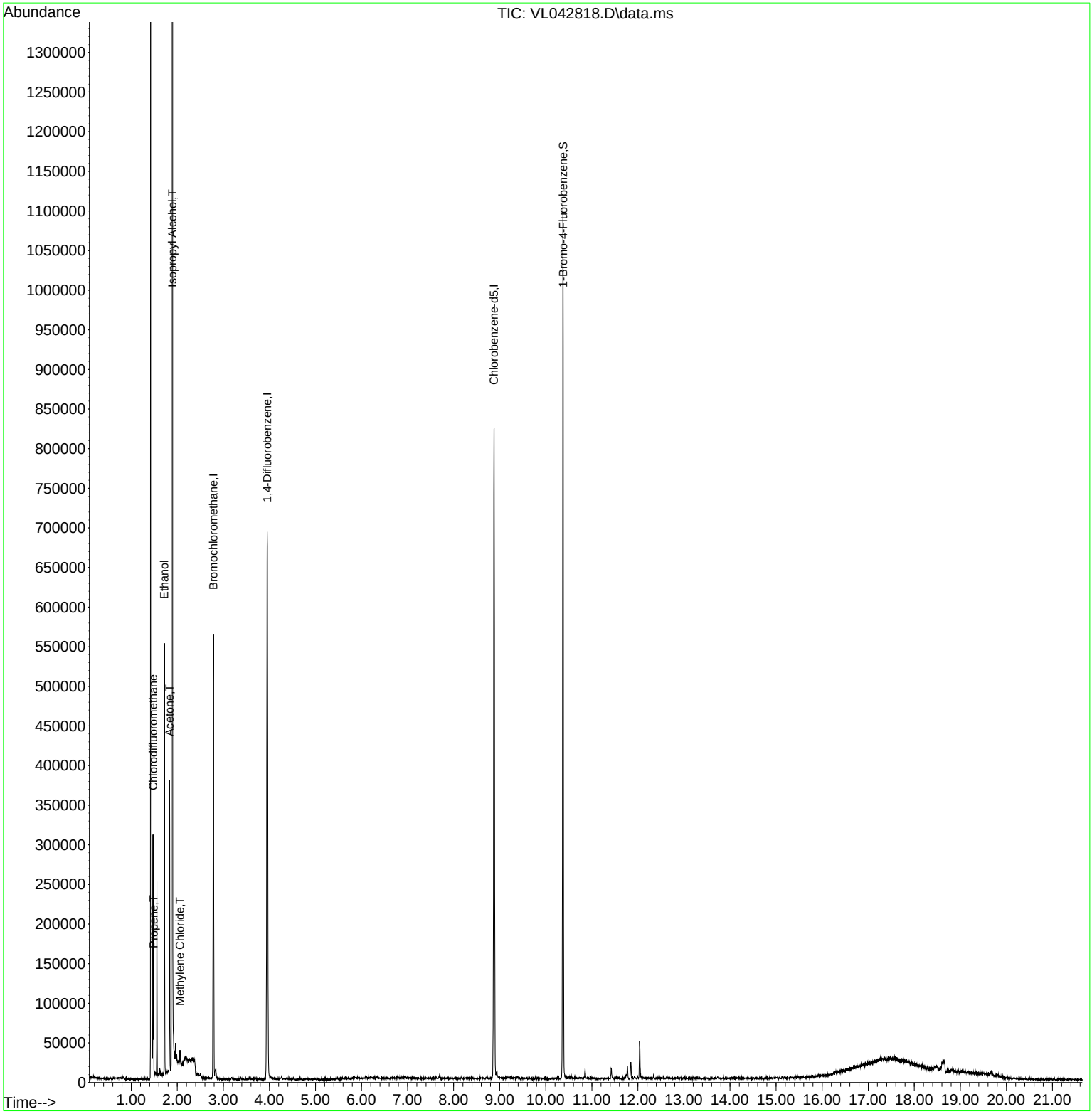
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042818.D
Acq On : 04 Aug 2025 22:31
Operator : SY/MD
Sample : Q2750-07DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

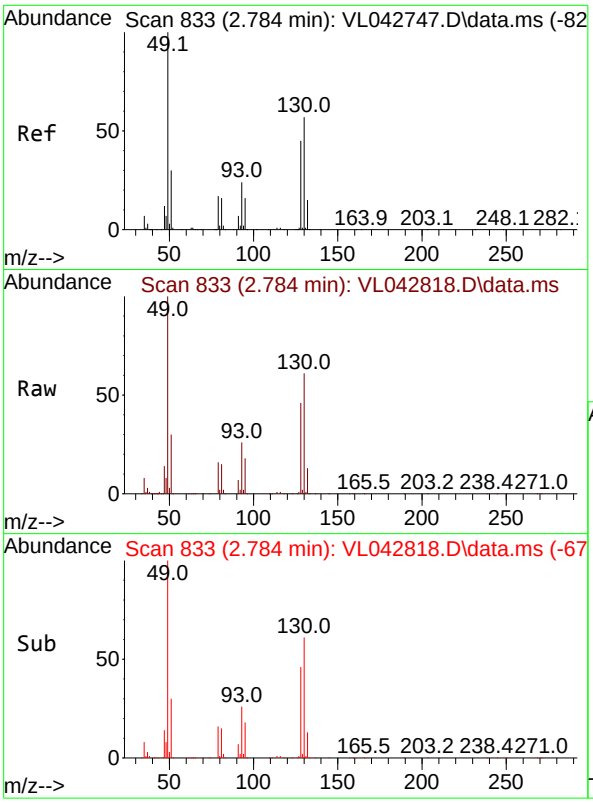
Quant Time: Aug 05 01:14:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

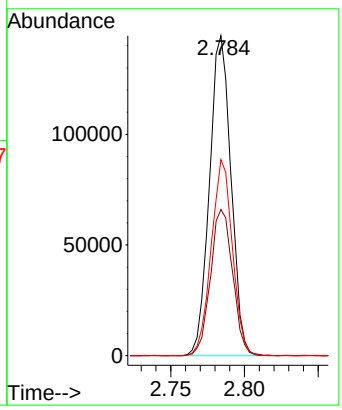




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 49 Resp: 14677

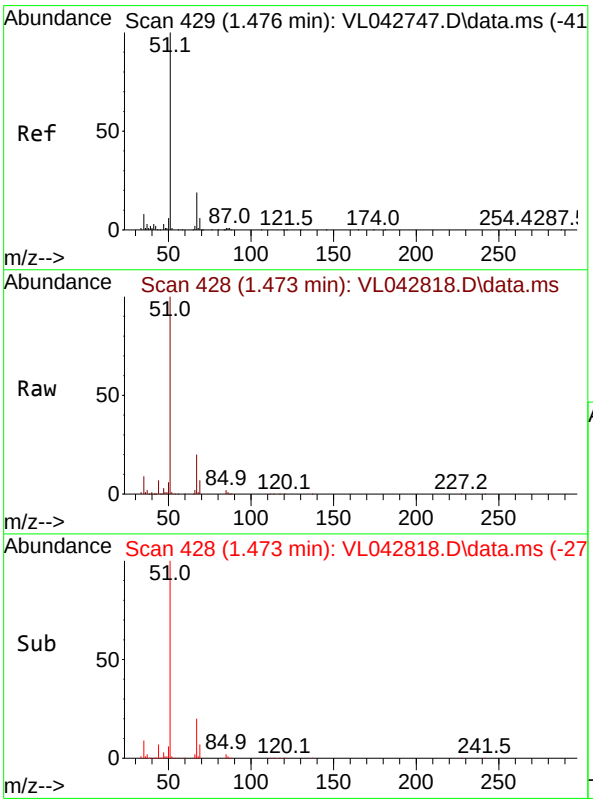
Ion	Ratio	Lower	Upper
49	100		
128	47.1	23.6	71.0
130	60.5	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Manual Integrations
APPROVED

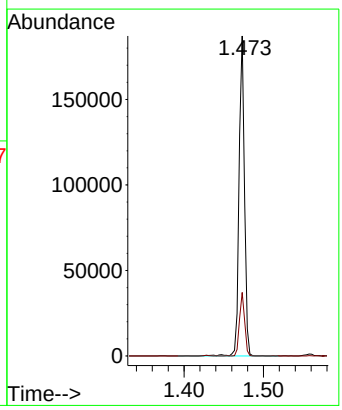
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

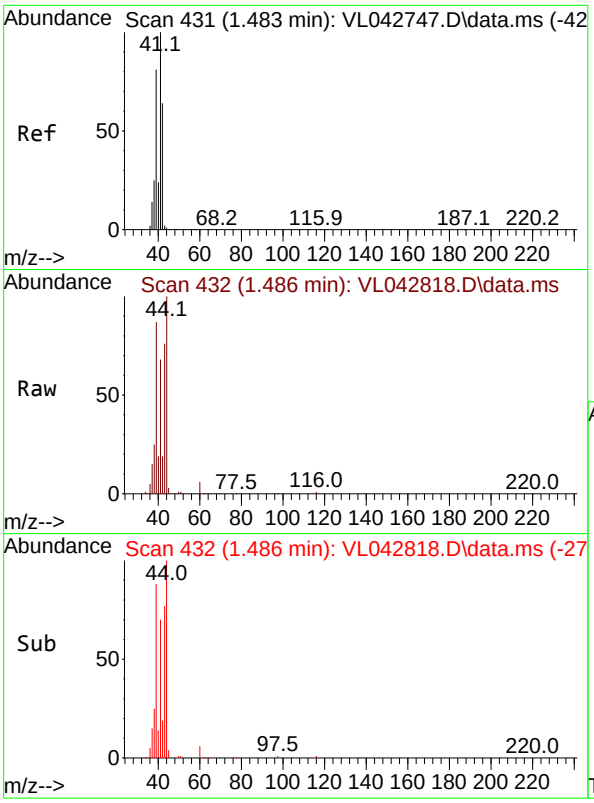


#3
Chlorodifluoromethane
Concen: 3.505 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 51 Resp: 88603

Ion	Ratio	Lower	Upper
51	100		
67	19.0	15.0	22.6

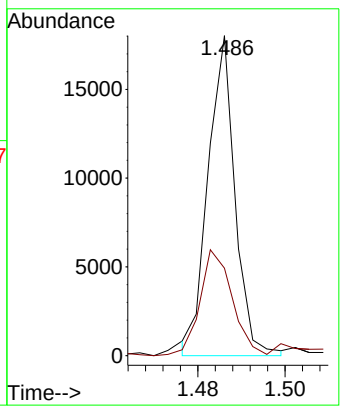




#9
Propene
Concen: 0.843 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 41 Resp: 774

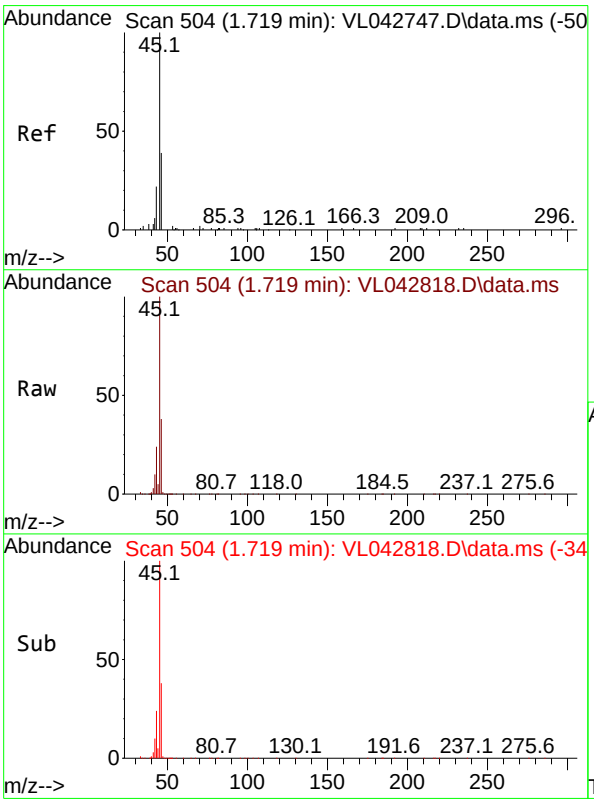
Ion	Ratio	Lower	Upper
41	100		
42	7634.2	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Manual Integrations
APPROVED

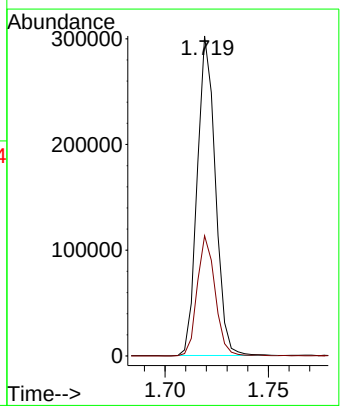
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

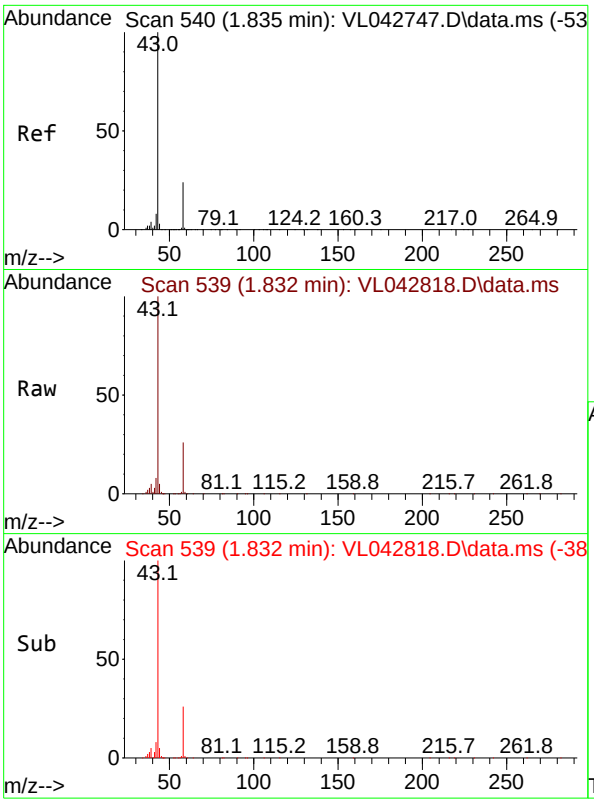


#13
Ethanol
Concen: 274.119 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 45 Resp: 184153

Ion	Ratio	Lower	Upper
45	100		
46	37.5	17.8	71.4

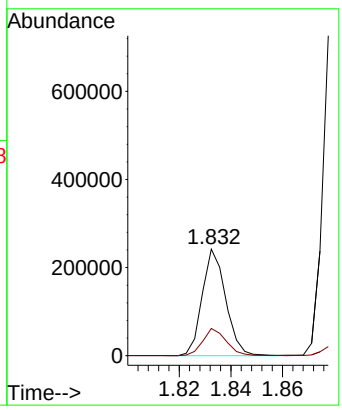




#15
Acetone
Concen: 7.560 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 43 Resp: 15322

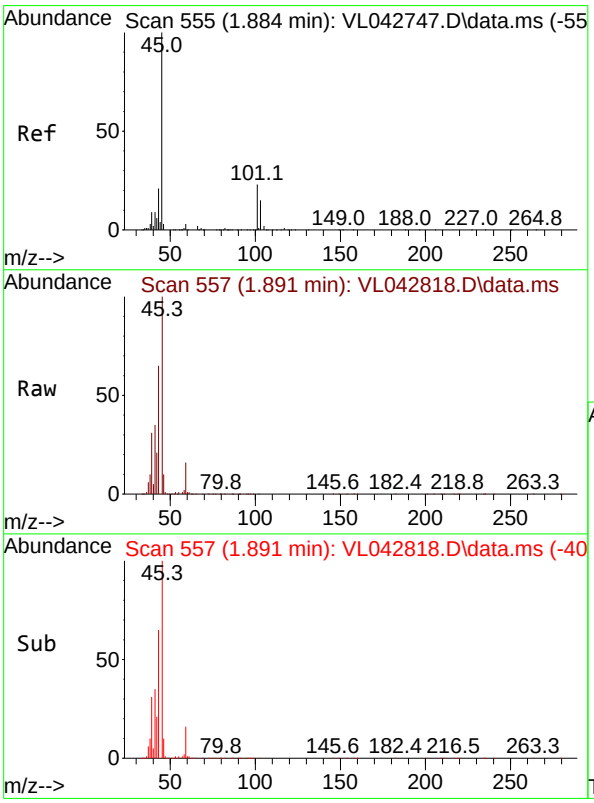
Ion	Ratio	Lower	Upper
43	100		
58	25.5	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Manual Integrations
APPROVED

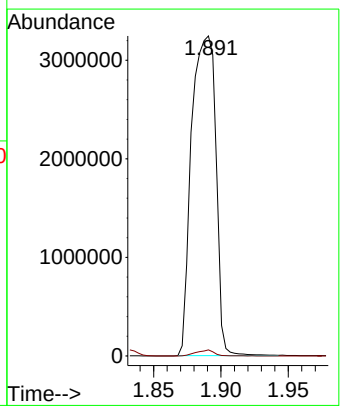
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

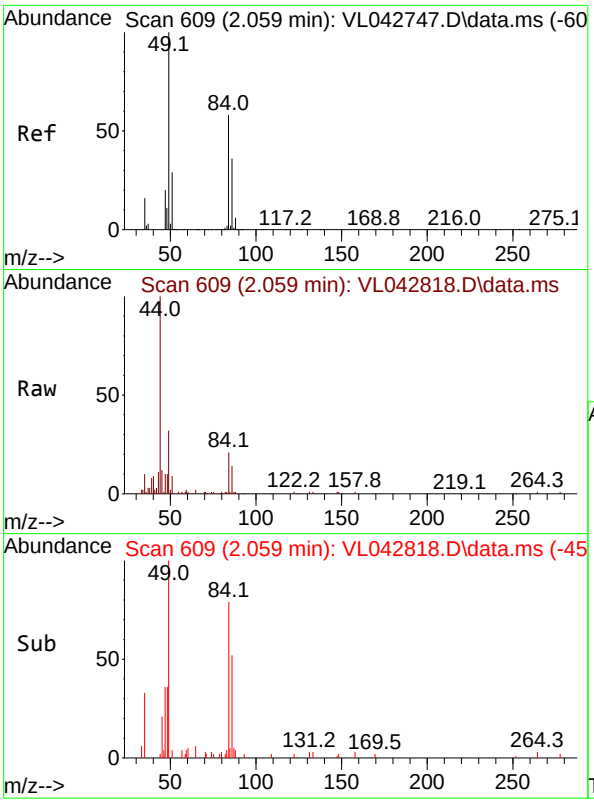


#19
Isopropyl Alcohol
Concen: 378.255 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 45 Resp: 4073948

Ion	Ratio	Lower	Upper
45	100		
58	1.5	30.0	45.0#

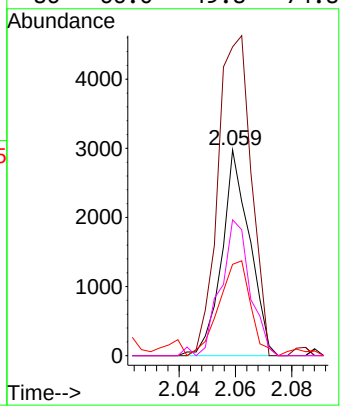




#20
Methylene Chloride
Concen: 0.319 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 84 Resp: 203

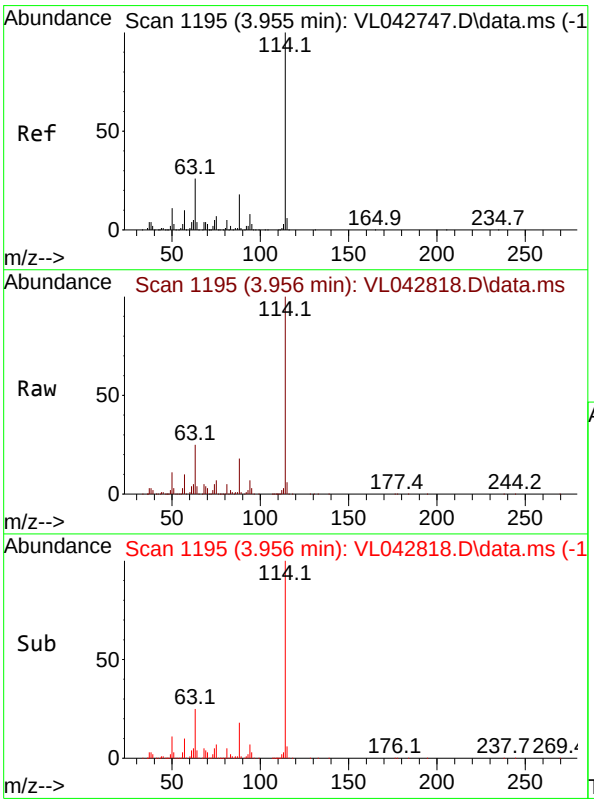
Ion	Ratio	Lower	Upper
84	100		
49	150.0	138.6	208.0
51	44.4	40.6	61.0
86	66.0	49.8	74.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Manual Integrations
APPROVED

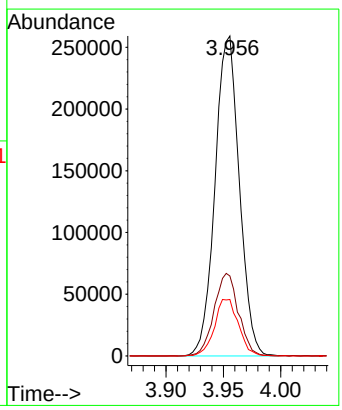
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

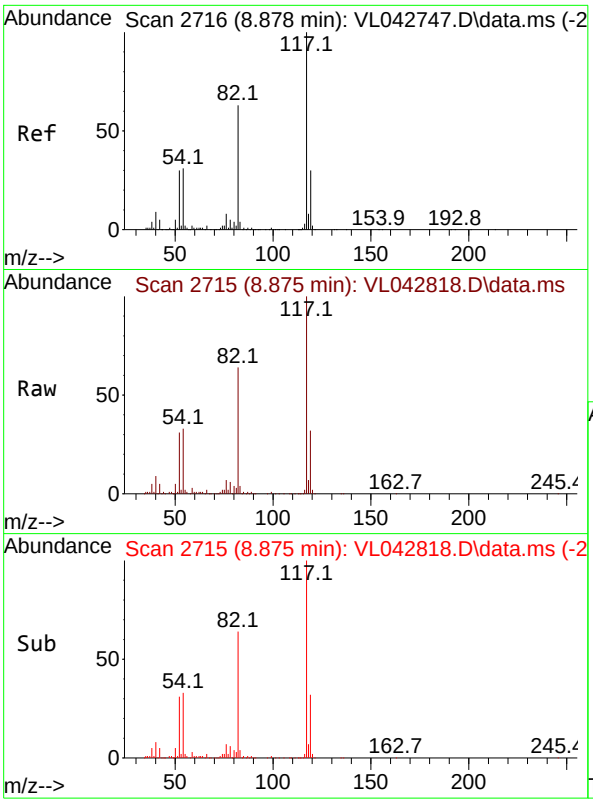


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion:114 Resp: 381523

Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.5	30.7
88	17.6	14.0	21.0

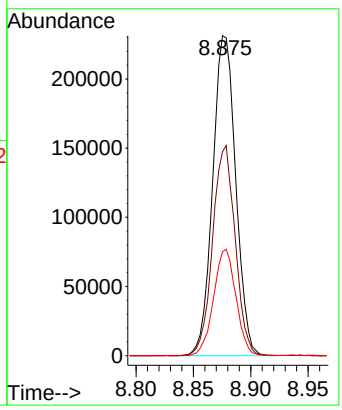




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion:117 Resp: 32313

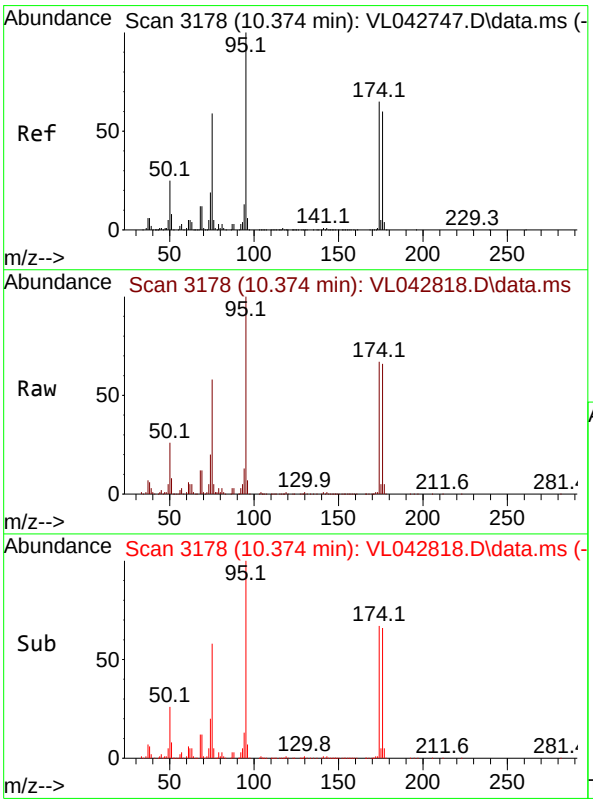
Ion	Ratio	Lower	Upper
117	100		
82	64.3	53.3	79.9
119	32.4	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Manual Integrations
APPROVED

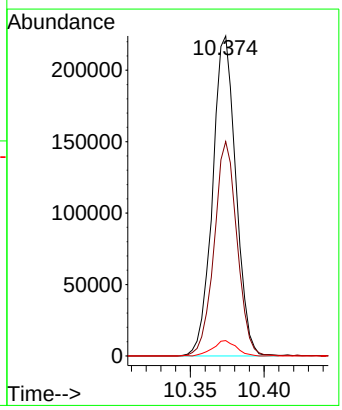
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.623 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 95 Resp: 246263

Ion	Ratio	Lower	Upper
95	100		
174	66.0	53.8	80.6
175	4.9	4.0	6.0



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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-9	SDG No.:	Q2750
Lab Sample ID:	Q2750-08	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042807.D	1		08/04/25 16:17	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.57	2.82		0.54	2.47	ug/m3
74-87-3	Chloromethane	0.65	1.34		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.31	0.91	J	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.23	1.29	J	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.18	0.74	J	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	95.6	227	E	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	2.00	6.23		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	0.80	2.78		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.80	2.36		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.060	0.38		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.52	2.54		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.28	0.89	J	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.56	2.11		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-9	SDG No.:	Q2750
Lab Sample ID:	Q2750-08	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042807.D	1		08/04/25 16:17	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	J	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	1.10	3.88		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			70 (65) - 130 (135)	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	158000		2.79			
540-36-3	1,4-Difluorobenzene	449000		3.962			
3114-55-4	Chlorobenzene-d5	389000		8.885			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	41.9		J		1.47	ppbv
115-07-1	Propene	13.2		J		1.49	ppbv
64-17-5	Ethanol	3900		J		1.73	ppbv

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-9	SDG No.:	Q2750
Lab Sample ID:	Q2750-08	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042807.D	1		08/04/25 16:17	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	1600		J		1.96	ppbv
141-78-6	Ethyl Acetate	3.20		J		2.84	ppbv
000127-91-3	.beta.-Pinene	4.00		J		11.4	ppbv
013466-78-9	3-Carene	6.40		J		11.9	ppbv
99-87-6	p-Isopropyltoluene	0.41		J		11.9	ppbv
005989-27-5	D-Limonene	16.5		J		12.0	ppbv
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	3.30		J		13.4	ppbv

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\VL080425\
Data File : VL042807.D
Acq On : 04 Aug 2025 16:17
Operator : SY/MD
Sample : Q2750-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:08:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	157969	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	449056	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	389304	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	321819	10.438	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	11984m	0.574	ppbv		
3) Chlorodifluoromethane	1.473	51	1140692	41.926	ppbv		94
4) Chloromethane	1.531	50	5508	0.652	ppbv		99
9) Propene	1.489	41	130453m	13.192	ppbv		
10) Heptane	4.982	43	4748m	0.178	ppbv		
11) Trichlorofluoromethane	1.878	101	4846	0.225	ppbv		87
12) 1,1,2-Trichlorotrifluo...	2.140	101	1630	0.100	ppbv	#	76
13) Ethanol	1.729	45	2797020	3883.569	ppbv		93
15) Acetone	1.836	43	2084891	95.580	ppbv	#	81
19) Isopropyl Alcohol	1.959	45	18181997	1568.534	ppbv	#	44
20) Methylene Chloride	2.065	84	5475	0.796	ppbv	#	90
25) Ethyl Acetate	2.842	43	154660m	3.203	ppbv		
26) Hexane	2.826	57	23936	1.130	ppbv	#	1
27) Carbon Disulfide	2.150	76	35626	1.965	ppbv	#	66
29) Chloroform	2.852	83	17081	0.522	ppbv		91
34) 2-Butanone	2.564	43	25565	0.804	ppbv		92
35) Carbon Tetrachloride	3.768	117	2034m	0.061	ppbv		
36) Benzene	3.661	78	12056	0.283	ppbv		93
41) Tetrahydrofuran	3.075	42	5057m	0.312	ppbv		
44) 2,2,4-Trimethylpentane	4.639	57	6941m	0.100	ppbv		
53) Toluene	6.940	91	25827	0.565	ppbv		94
59) m/p-Xylene	9.532	91	9070m	0.185	ppbv		
61) Styrene	9.872	104	3300	0.160	ppbv	#	87
69) p-Isopropyltoluene	11.927	119	30916	0.414	ppbv		96

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

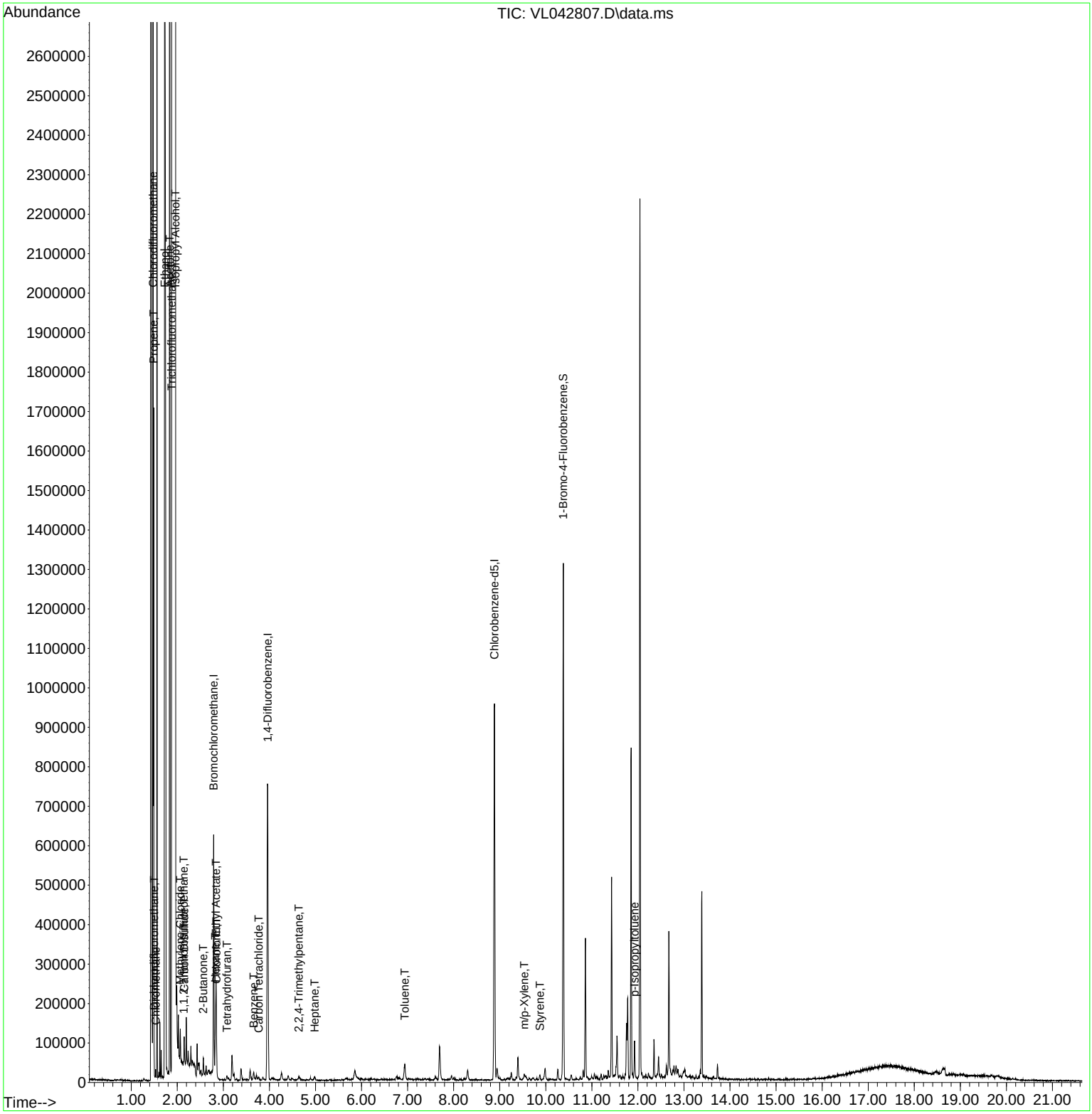
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042807.D
Acq On : 04 Aug 2025 16:17
Operator : SY/MD
Sample : Q2750-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

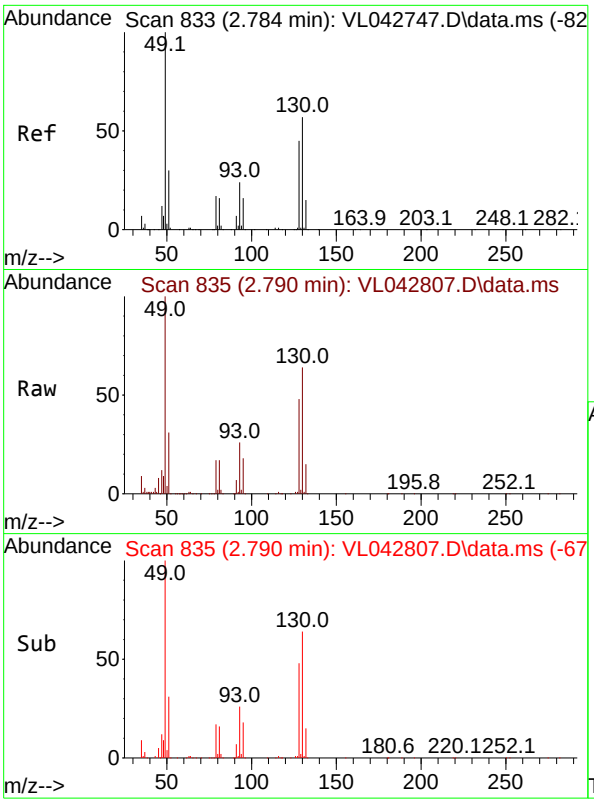
Quant Time: Aug 05 01:08:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

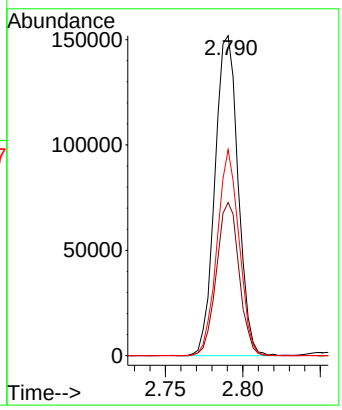




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 49 Resp: 15796

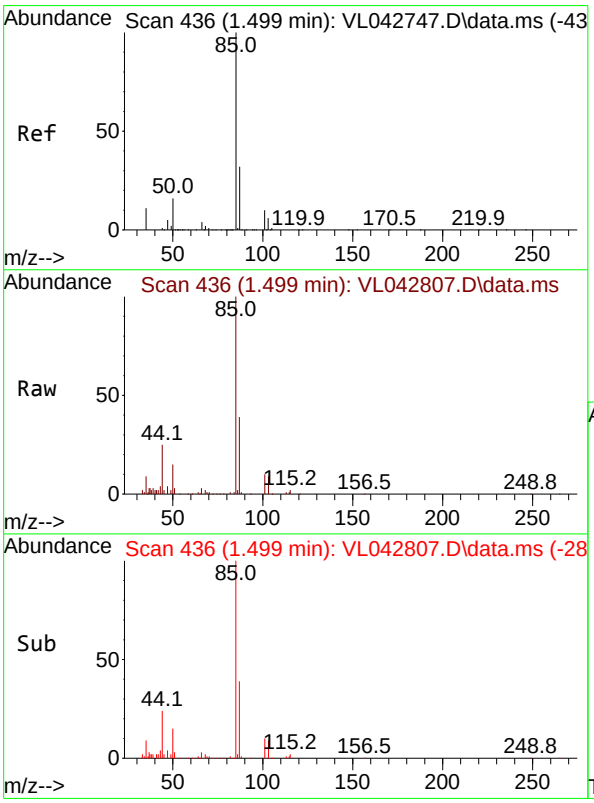
Ion	Ratio	Lower	Upper
49	100		
128	47.0	23.6	71.0
130	61.1	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

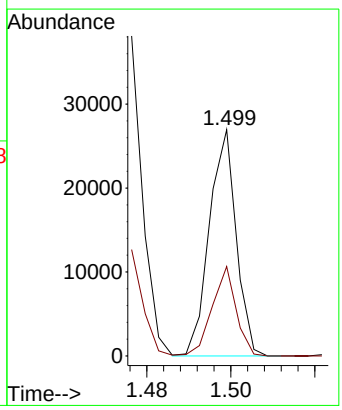
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

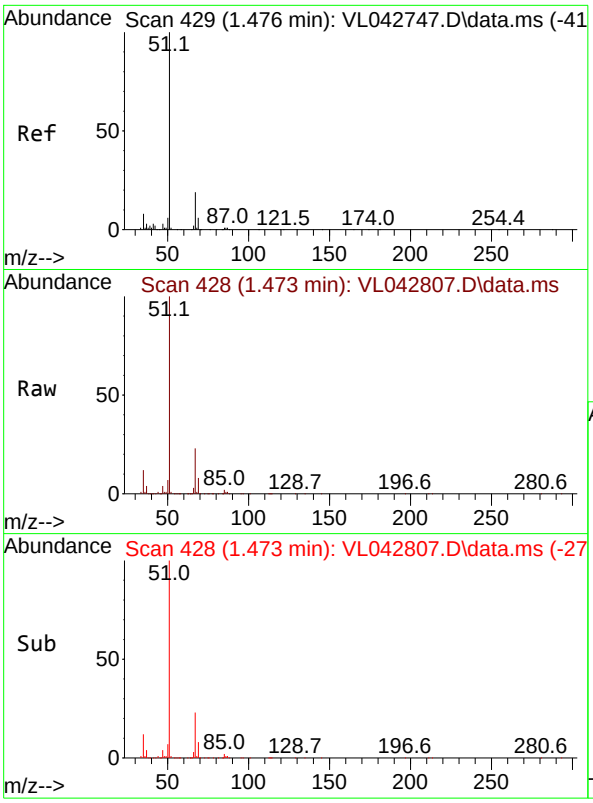


#2
Dichlorodifluoromethane
Concen: 0.574 ppbv m
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 85 Resp: 11984

Ion	Ratio	Lower	Upper
85	100		
87	39.5	25.4	38.2#

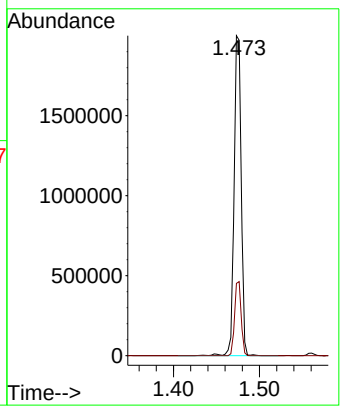




#3
Chlorodifluoromethane
Concen: 41.926 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 51 Resp: 114069

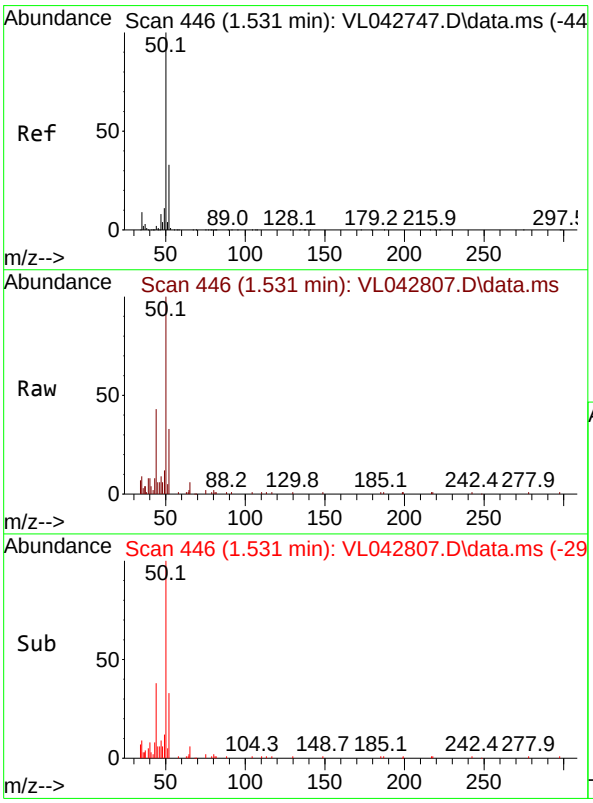
Ion	Ratio	Lower	Upper
51	100		
67	21.3	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

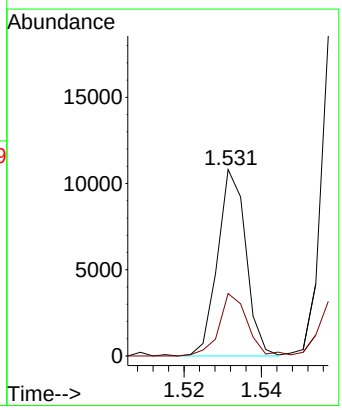
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

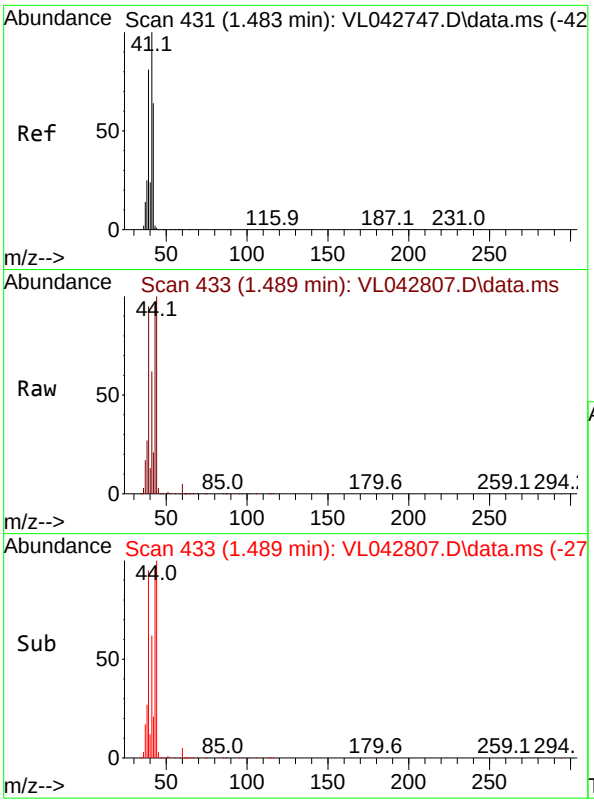


#4
Chloromethane
Concen: 0.652 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 50 Resp: 5508

Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.6	40.0

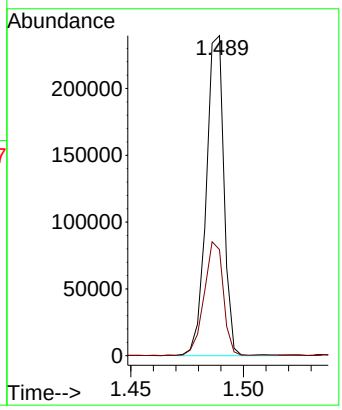




#9
Propene
Concen: 13.192 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 41 Resp: 13045

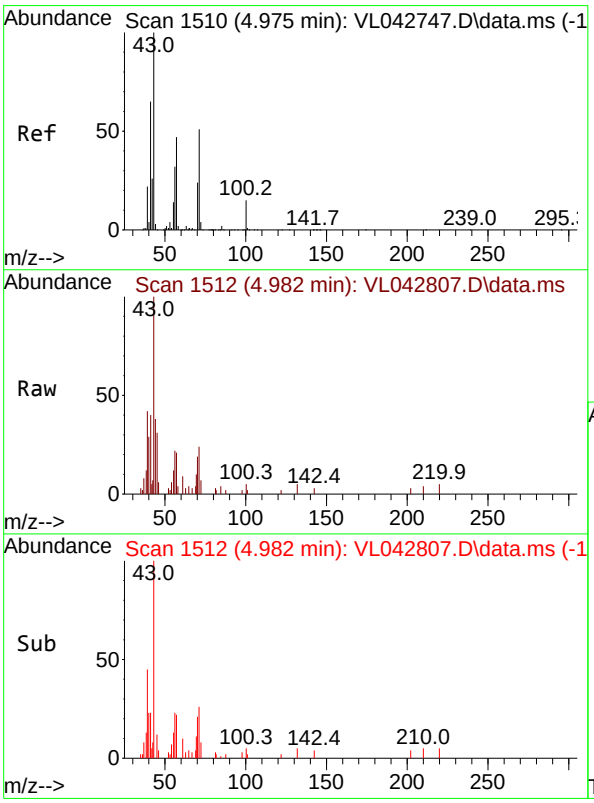
Ion	Ratio	Lower	Upper
41	100		
42	240.9	53.2	79.8#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

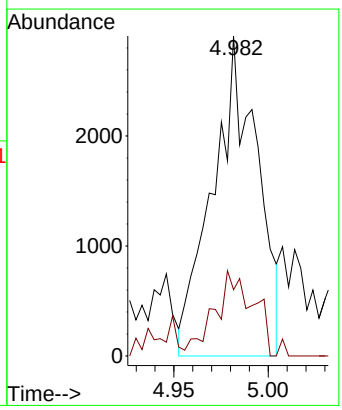
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

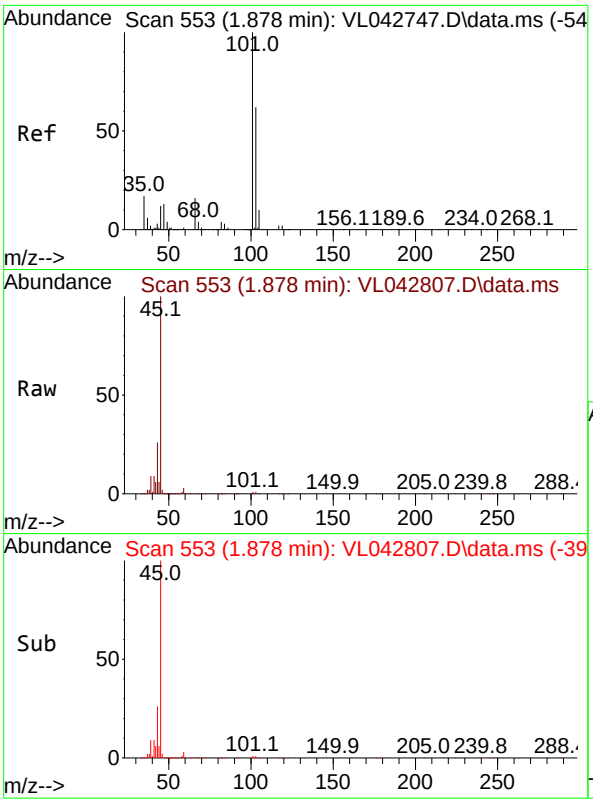


#10
Heptane
Concen: 0.178 ppbv m
RT: 4.982 min Scan# 1512
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 43 Resp: 4748

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.9	59.9#

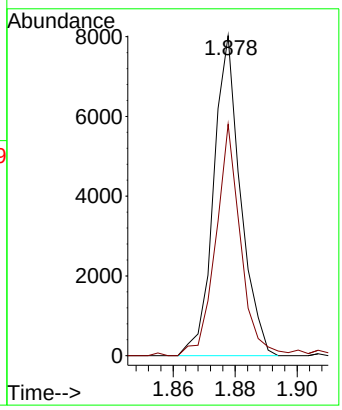




#11
Trichlorofluoromethane
Concen: 0.225 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion:101 Resp: 484

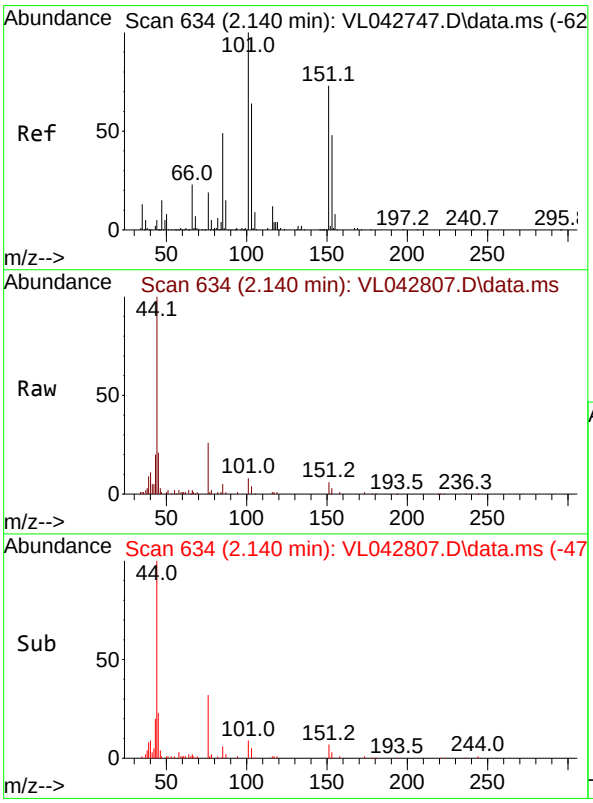
Ion	Ratio	Lower	Upper
101	100		
103	72.3	49.6	74.4



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

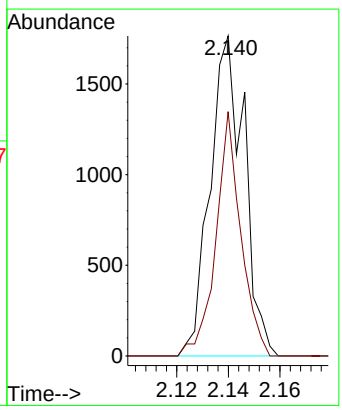
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

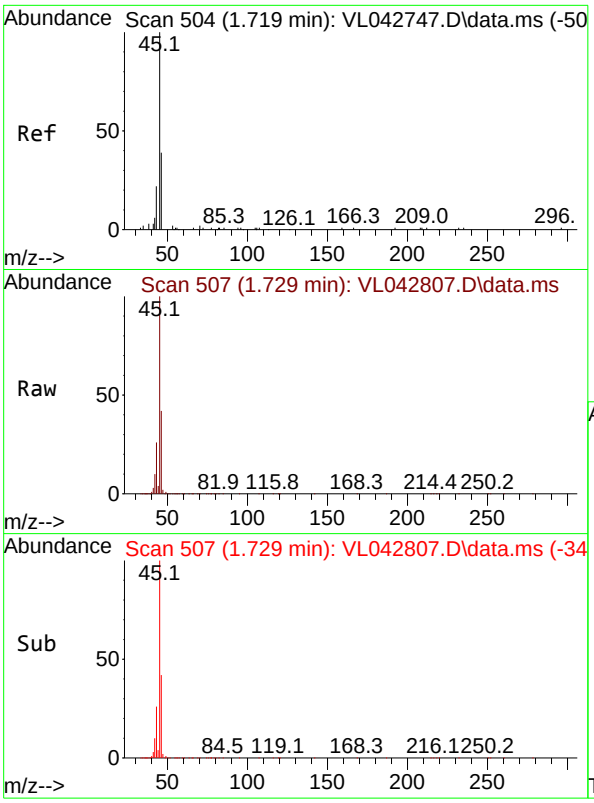


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.100 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion:101 Resp: 1630

Ion	Ratio	Lower	Upper
101	100		
151	55.3	60.5	90.7#

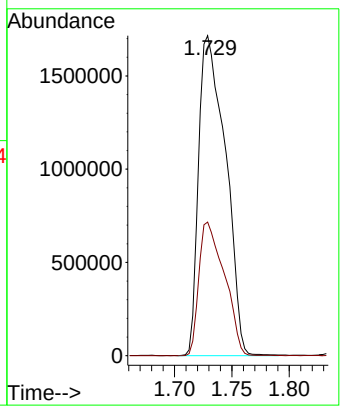




#13
Ethanol
Concen: 3883.569 ppbv
RT: 1.729 min Scan# 5
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 45 Resp: 279702

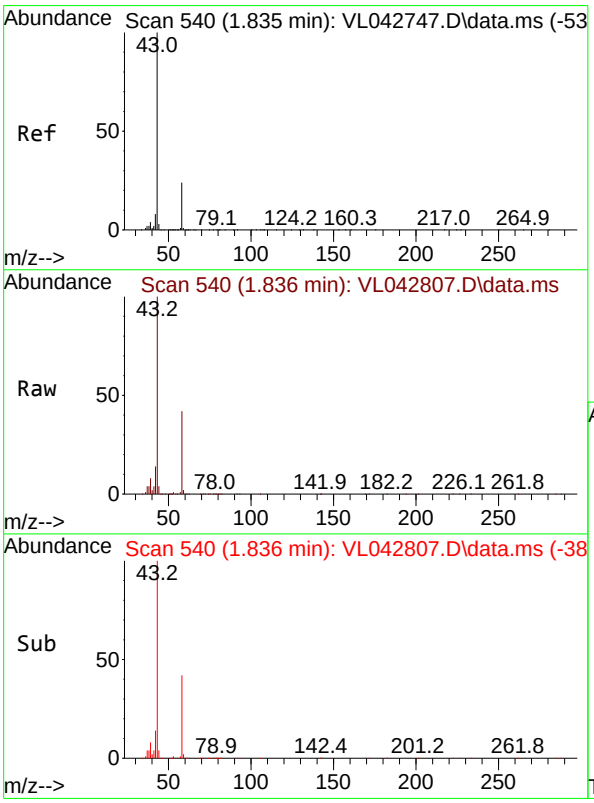
Ion	Ratio	Lower	Upper
45	100		
46	39.8	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

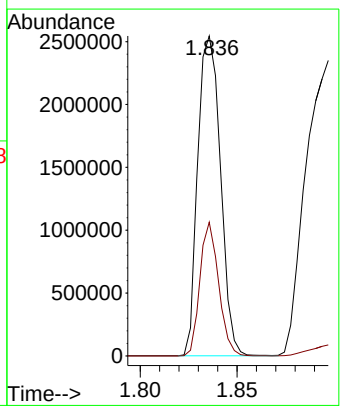
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

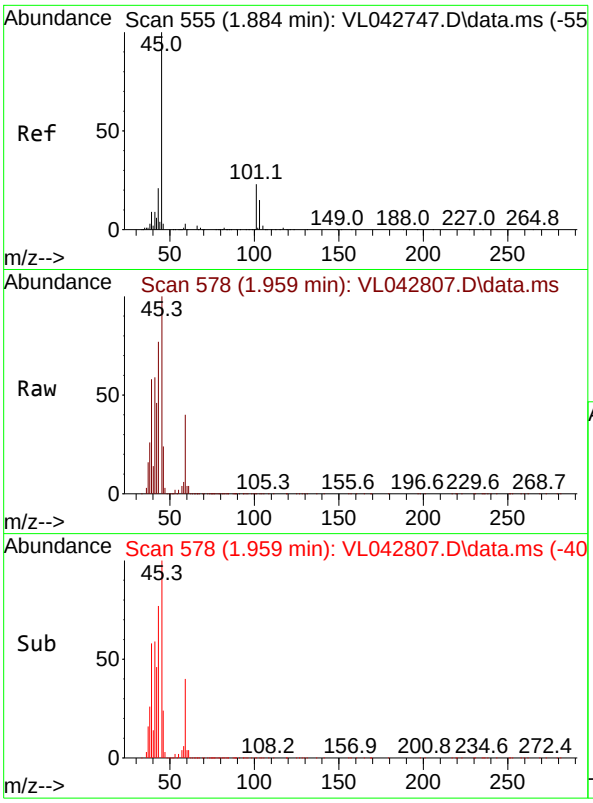


#15
Acetone
Concen: 95.580 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 43 Resp: 2084891

Ion	Ratio	Lower	Upper
43	100		
58	34.5	19.8	29.8#

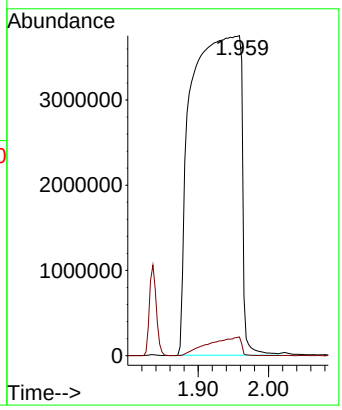




#19
Isopropyl Alcohol
Concen: 1568.534 ppbv
RT: 1.959 min Scan# 5
Delta R.T. 0.075 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 45 Resp:1818199

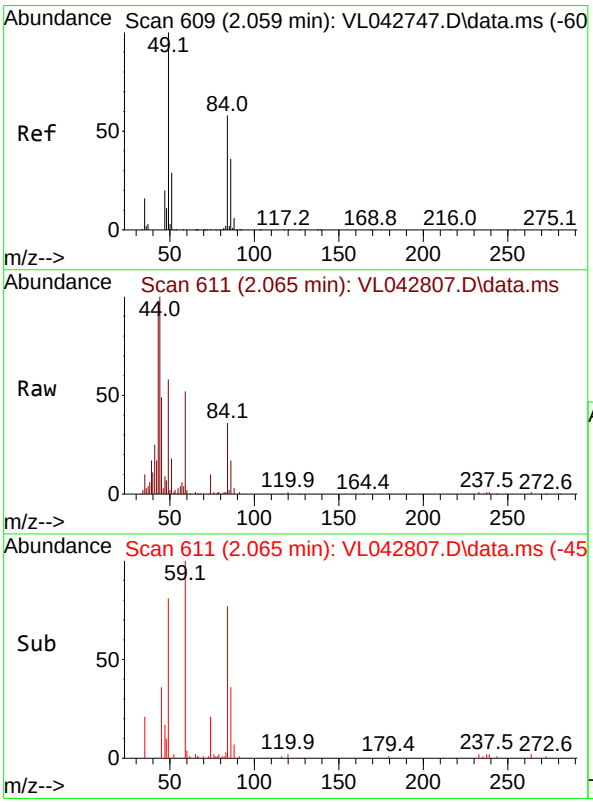
Ion	Ratio	Lower	Upper
45	100		
58	3.9	30.0	45.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

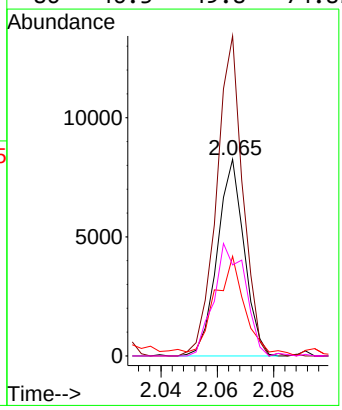
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

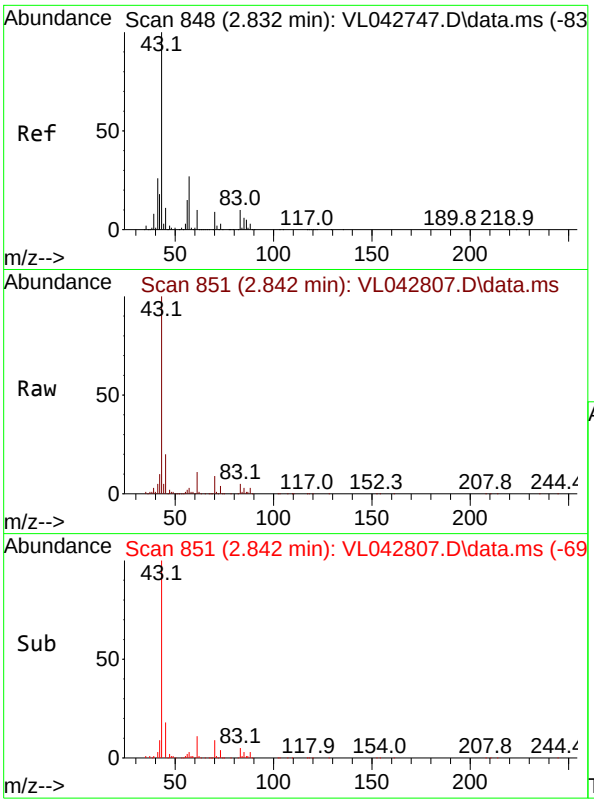


#20
Methylene Chloride
Concen: 0.796 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 84 Resp: 5475

Ion	Ratio	Lower	Upper
84	100		
49	162.8	138.6	208.0
51	48.0	40.6	61.0
86	46.3	49.8	74.8#

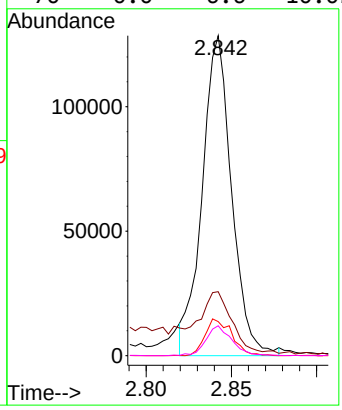




#25
Ethyl Acetate
Concen: 3.203 ppbv m
RT: 2.842 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 43 Resp: 15466

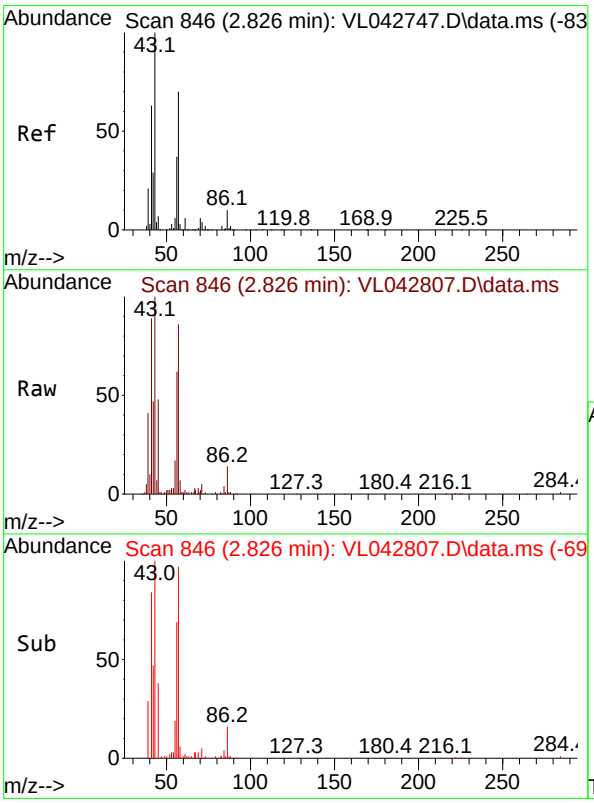
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	6.7	10.1#
70	0.0	6.6	10.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

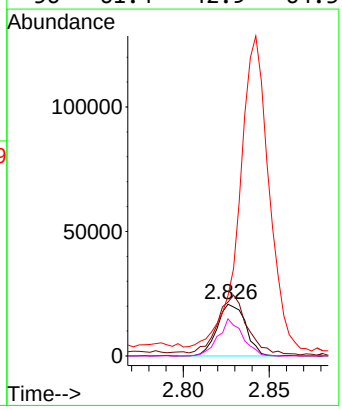
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

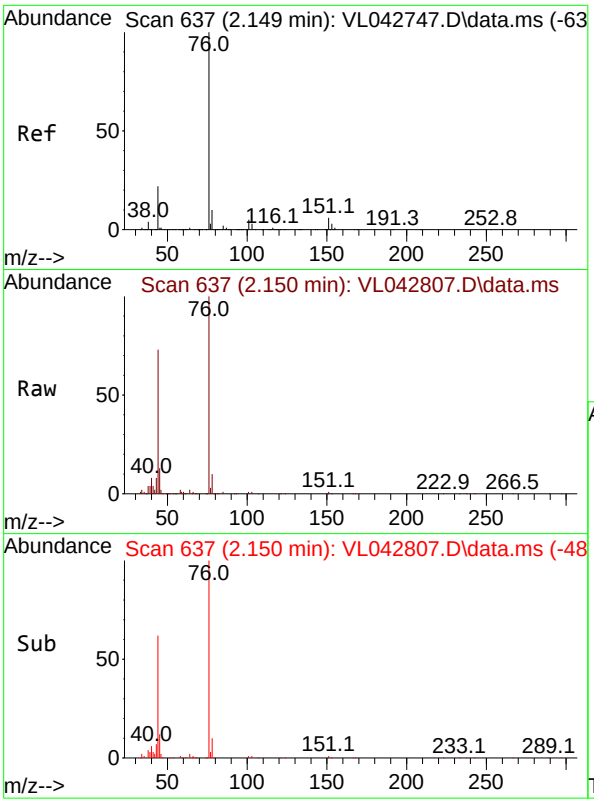


#26
Hexane
Concen: 1.130 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 57 Resp: 23936

Ion	Ratio	Lower	Upper
57	100		
41	130.1	75.4	113.2#
43	701.5	185.0	277.6#
56	61.4	42.9	64.3





#27
Carbon Disulfide
Concen: 1.965 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

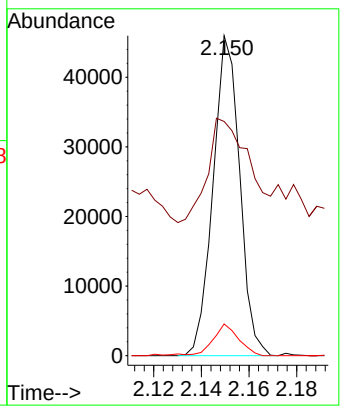
Tgt Ion: 76 Resp: 3562

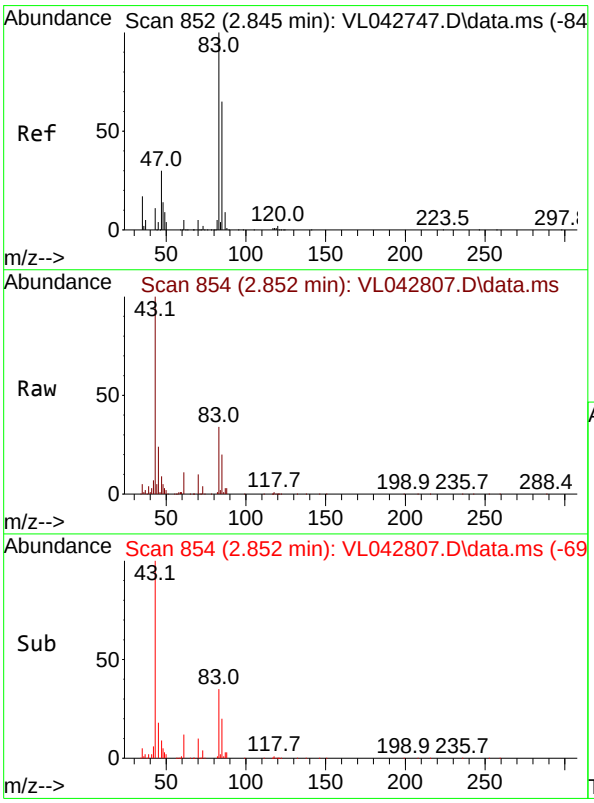
Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.8	9.9	14.9#

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

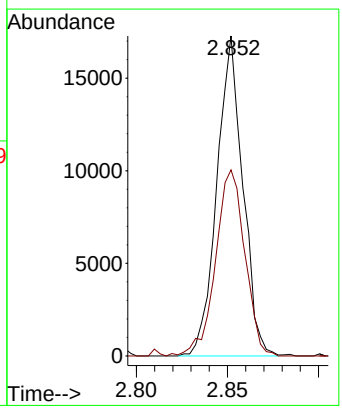


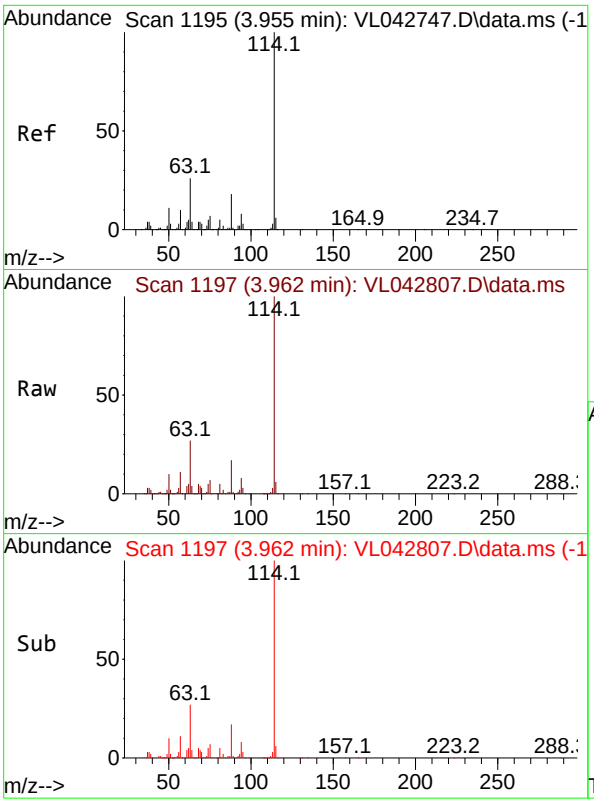


#29
Chloroform
Concen: 0.522 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 83 Resp: 17081

Ion	Ratio	Lower	Upper
83	100		
85	58.1	52.2	78.2

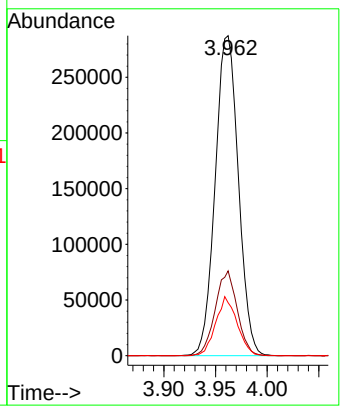




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion:114 Resp: 44905

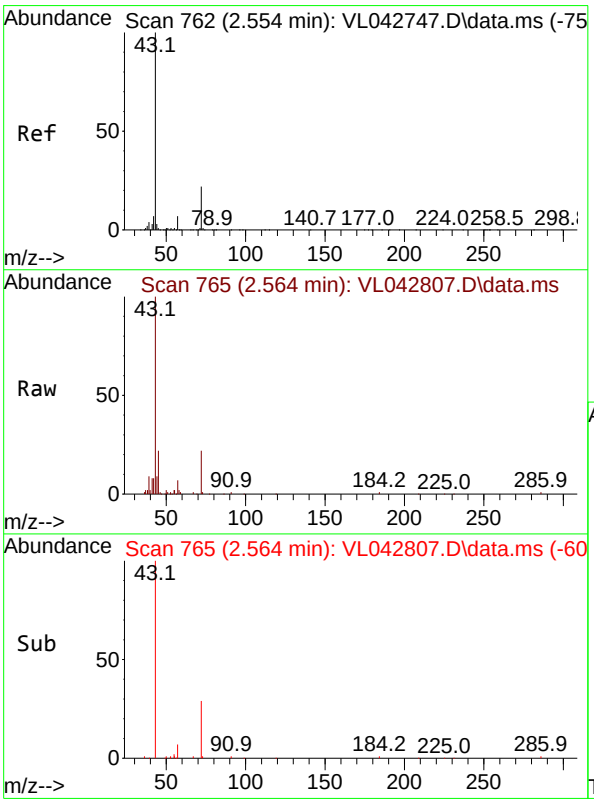
Ion	Ratio	Lower	Upper
114	100		
63	25.2	20.5	30.7
88	17.1	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

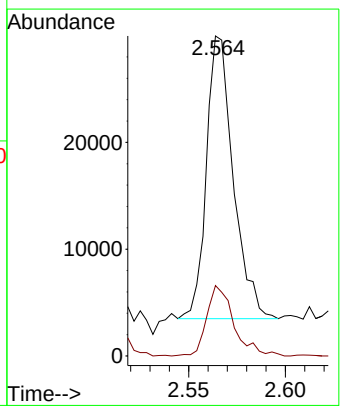
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

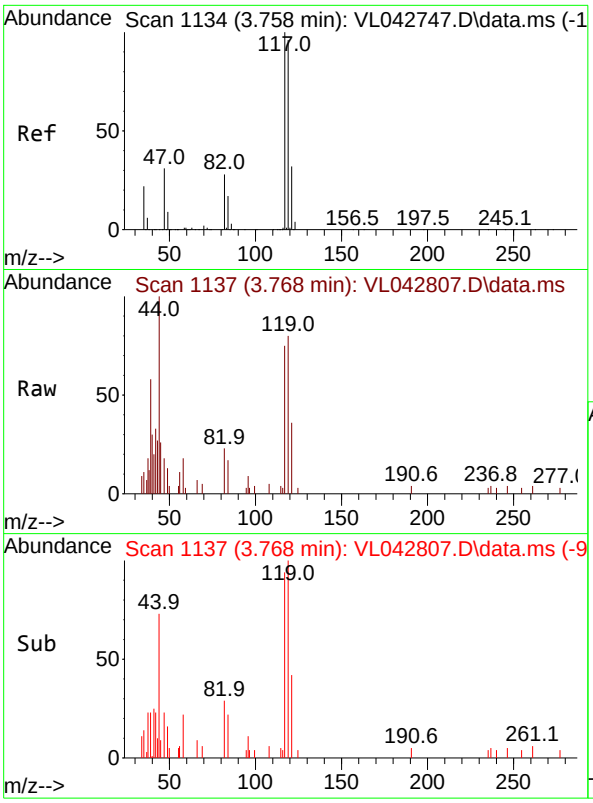


#34
2-Butanone
Concen: 0.804 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 43 Resp: 25565

Ion	Ratio	Lower	Upper
43	100		
72	25.4	17.4	26.0





#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 3.768 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

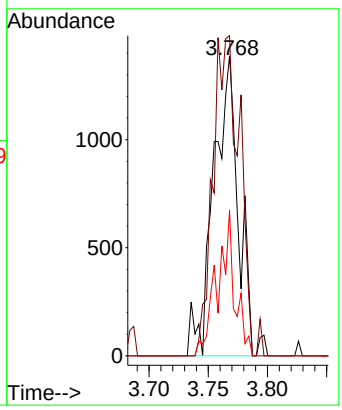
Tgt Ion:117 Resp: 203

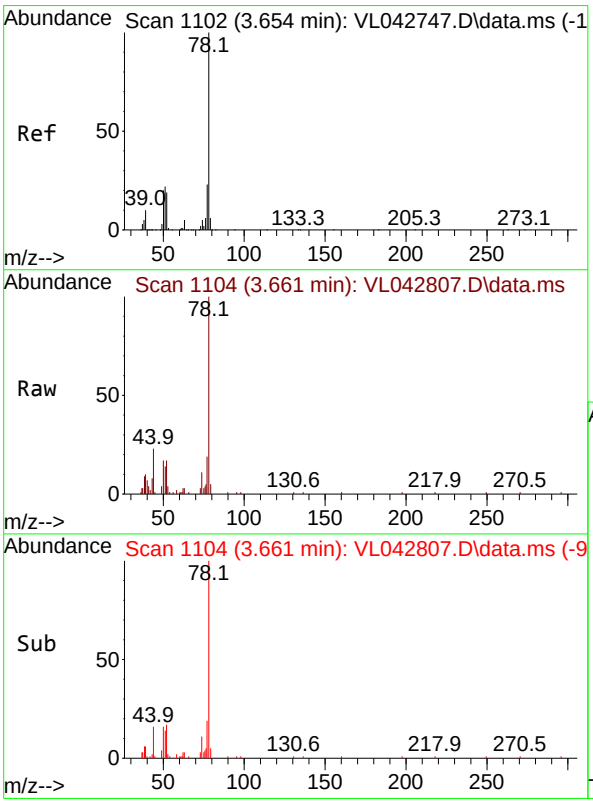
Ion	Ratio	Lower	Upper
117	100		
119	106.7	77.1	115.7
121	48.6	25.5	38.3#

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

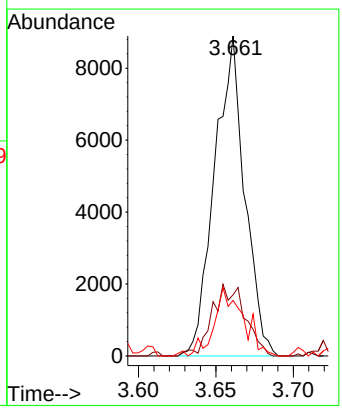


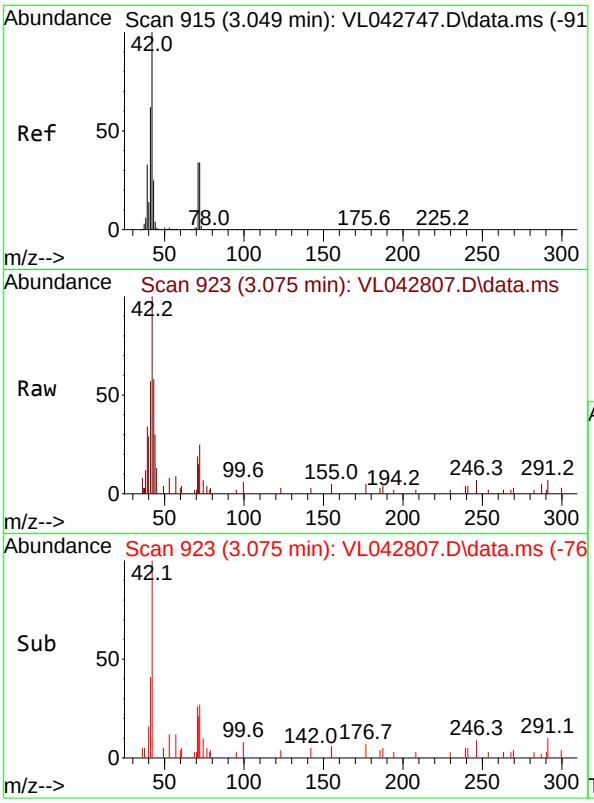


#36
Benzene
Concen: 0.283 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 78 Resp: 12056

Ion	Ratio	Lower	Upper
78	100		
77	19.1	18.5	27.7
50	17.3	16.2	24.2

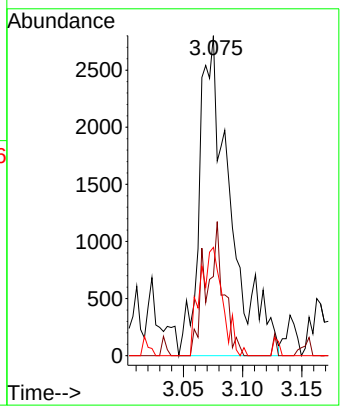




#41
Tetrahydrofuran
Concen: 0.312 ppbv m
RT: 3.075 min Scan# 9
Delta R.T. 0.026 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 42 Resp: 505

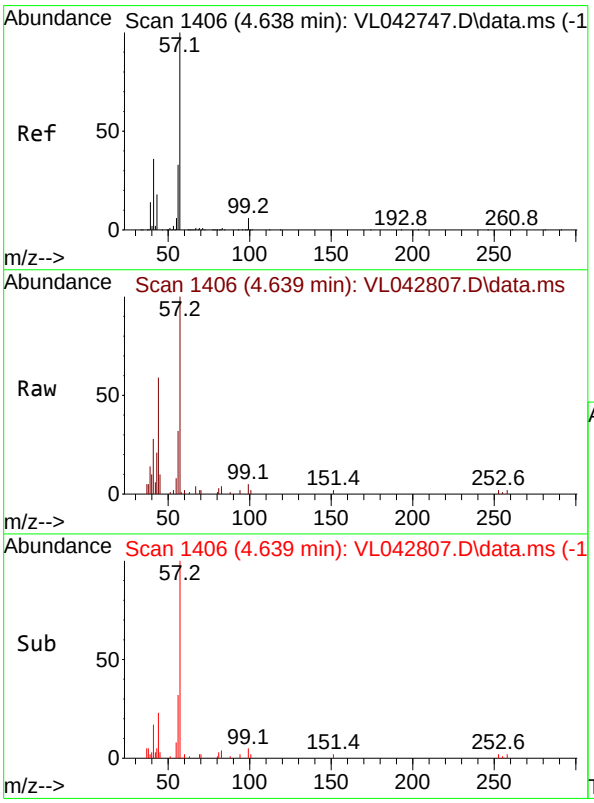
Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	0.0	28.6	43.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

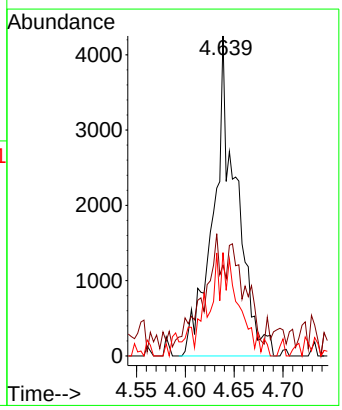
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

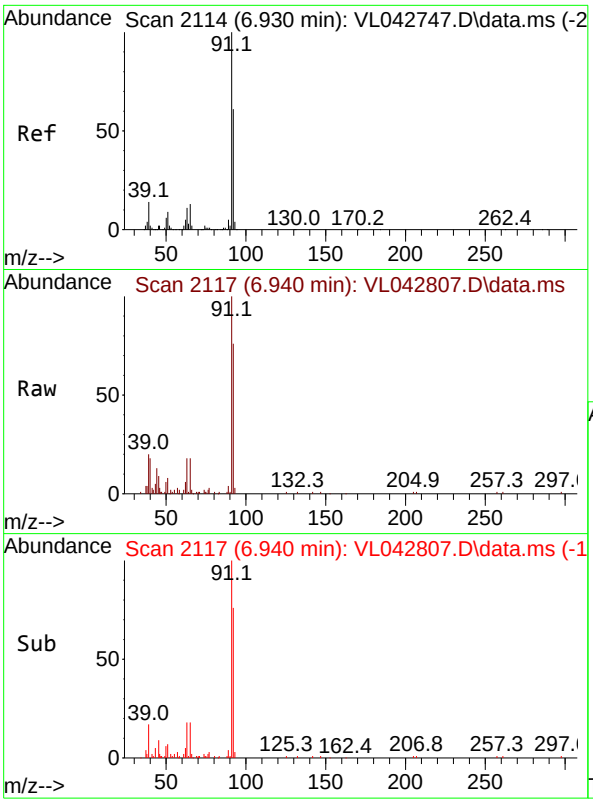


#44
2,2,4-Trimethylpentane
Concen: 0.100 ppbv m
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 57 Resp: 6941

Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.3	42.5#
56	0.0	25.8	38.6#

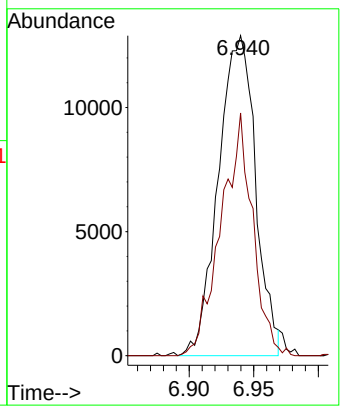




#53
Toluene
Concen: 0.565 ppbv
RT: 6.940 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 91 Resp: 2582

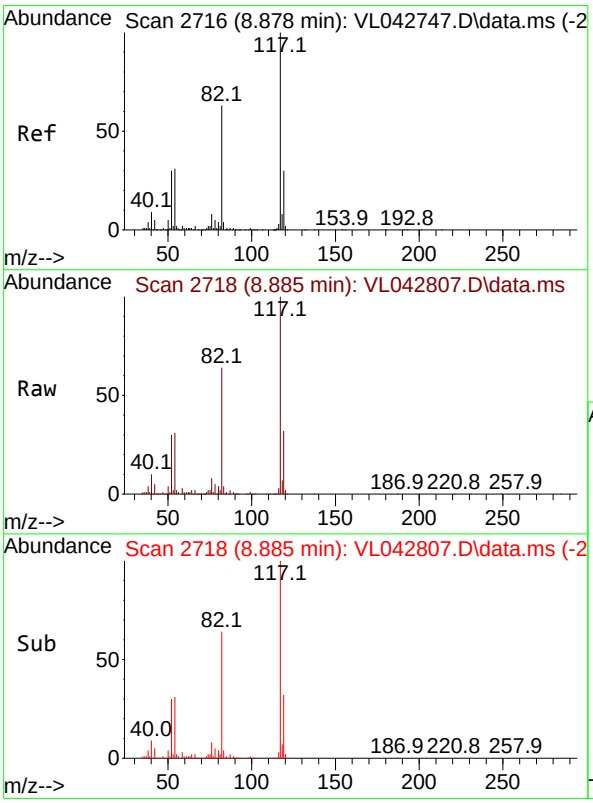
Ion	Ratio	Lower	Upper
91	100		
92	64.6	48.0	72.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

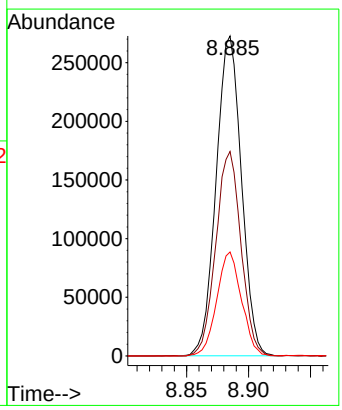
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

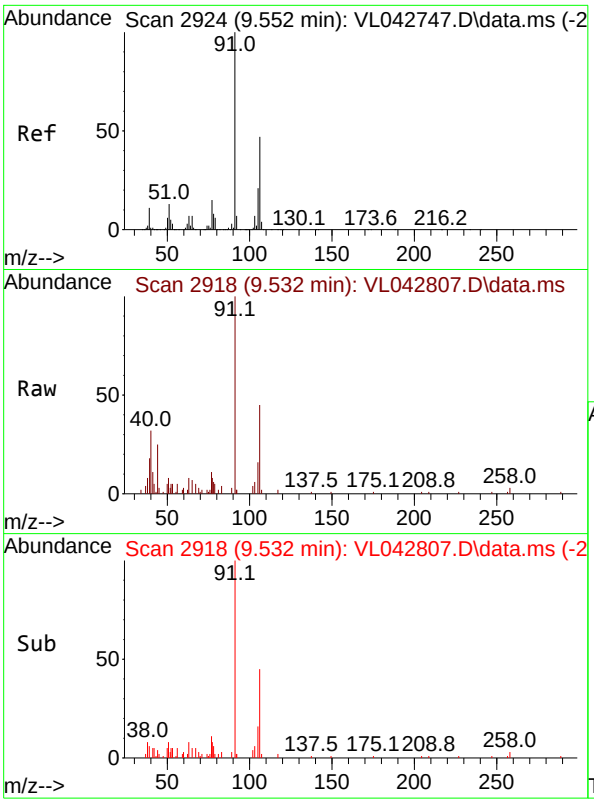


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion:117 Resp: 389304

Ion	Ratio	Lower	Upper
117	100		
82	63.4	53.3	79.9
119	31.7	25.8	38.6





#59
m/p-Xylene
Concen: 0.185 ppbv m
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

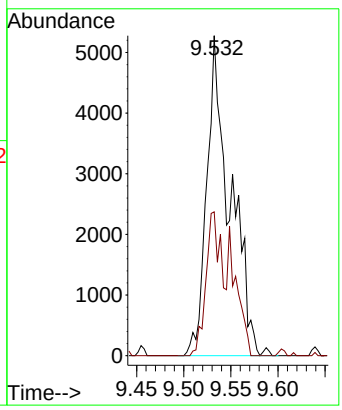
Tgt Ion: 91 Resp: 907

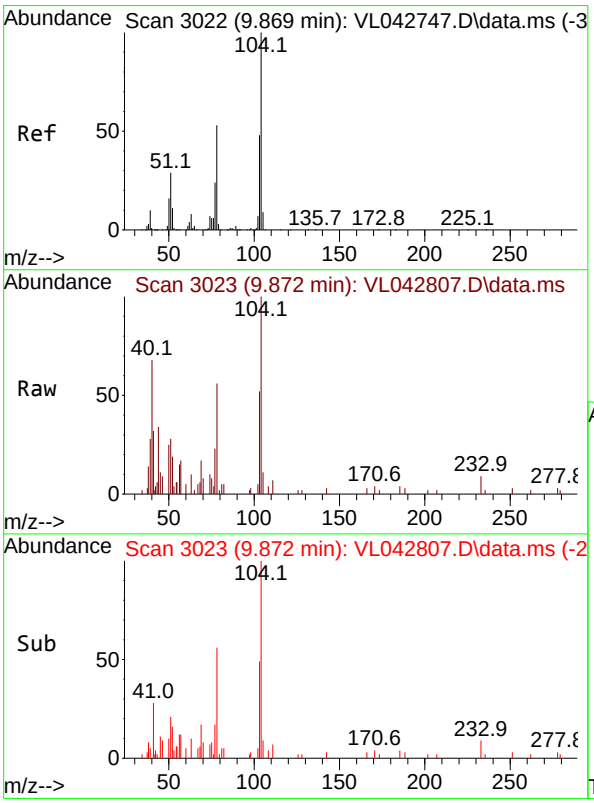
Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

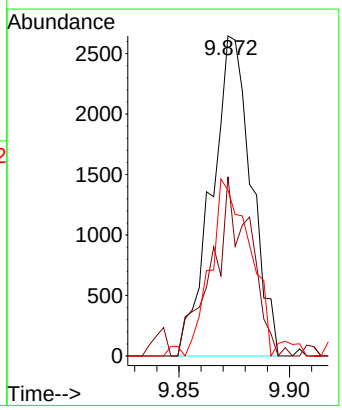


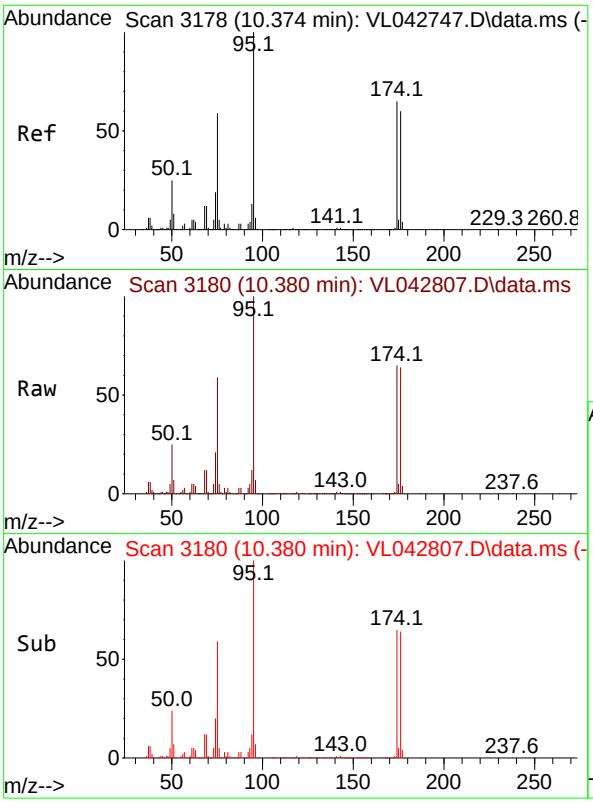


#61
Styrene
Concen: 0.160 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion:104 Resp: 3300

Ion	Ratio	Lower	Upper
104	100		
78	57.8	41.5	62.3
103	58.7	37.5	56.3#

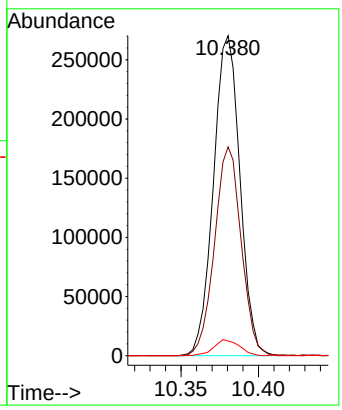




#68
1-Bromo-4-Fluorobenzene
Concen: 10.438 ppbv
RT: 10.380 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 95 Resp: 32181

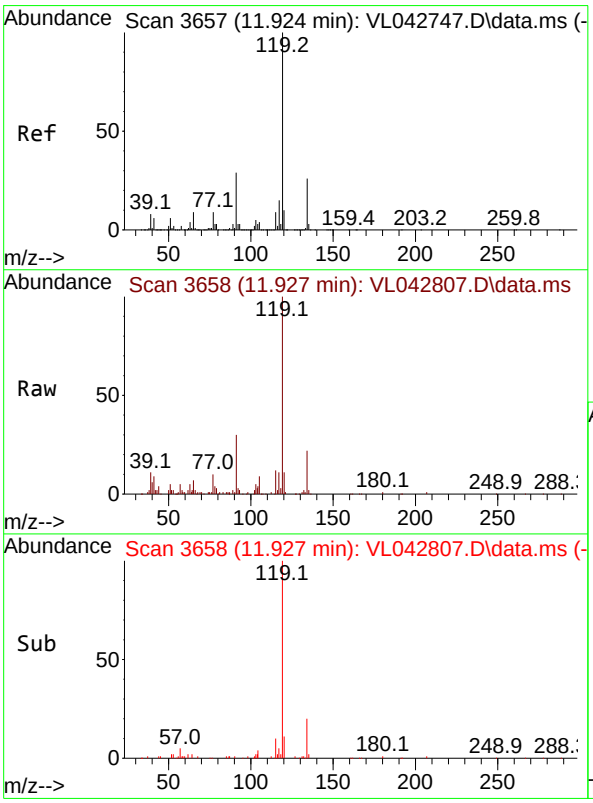
Ion	Ratio	Lower	Upper
95	100		
174	65.7	53.8	80.6
175	4.9	4.0	6.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Manual Integrations
APPROVED

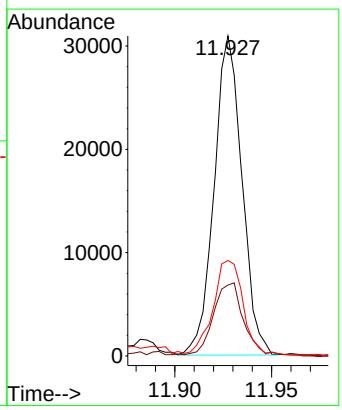
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#69
p-Isopropyltoluene
Concen: 0.414 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion:119 Resp: 30916

Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.6	31.0
91	32.9	23.2	34.8



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042807.D
Acq On : 04 Aug 2025 16:17
Operator : SY/MD
Sample : Q2750-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042807.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.428	410	414	416	rBV	4755785	4235504	10.40%	4.131%
2	1.438	416	417	421	rVV	4895670	2376896	5.83%	2.318%
3	1.473	424	428	431	rVV	3433643	2058255	5.05%	2.008%
4	1.489	431	433	439	rVB	1695029	777305	1.91%	0.758%
5	1.561	451	455	459	rBV	3965534	2128198	5.22%	2.076%
6	1.729	499	507	519	rBV	3229970	5136003	12.61%	5.010%
7	1.836	535	540	548	rBV	4782612	3633120	8.92%	3.544%
8	1.926	551	568	569	rBV2	17442401	40740364	100.00%	39.739%
9	1.959	569	578	581	rVB2	17826574	32437431	79.62%	31.640%
10	2.790	826	835	842	rBV	603882	628941	1.54%	0.613%
11	3.959	1184	1196	1209	rBV	750934	1172219	2.88%	1.143%
12	8.885	2704	2718	2728	rBV	953835	1392895	3.42%	1.359%
13	10.380	3164	3180	3191	rBV	1309529	1589757	3.90%	1.551%
14	11.429	3494	3504	3514	rVB	507243	561482	1.38%	0.548%
15	11.853	3627	3635	3643	rBV	837229	885230	2.17%	0.863%
16	12.044	3684	3694	3705	rBV	2225409	2302669	5.65%	2.246%
17	13.387	4102	4109	4117	rVB	470616	463652	1.14%	0.452%

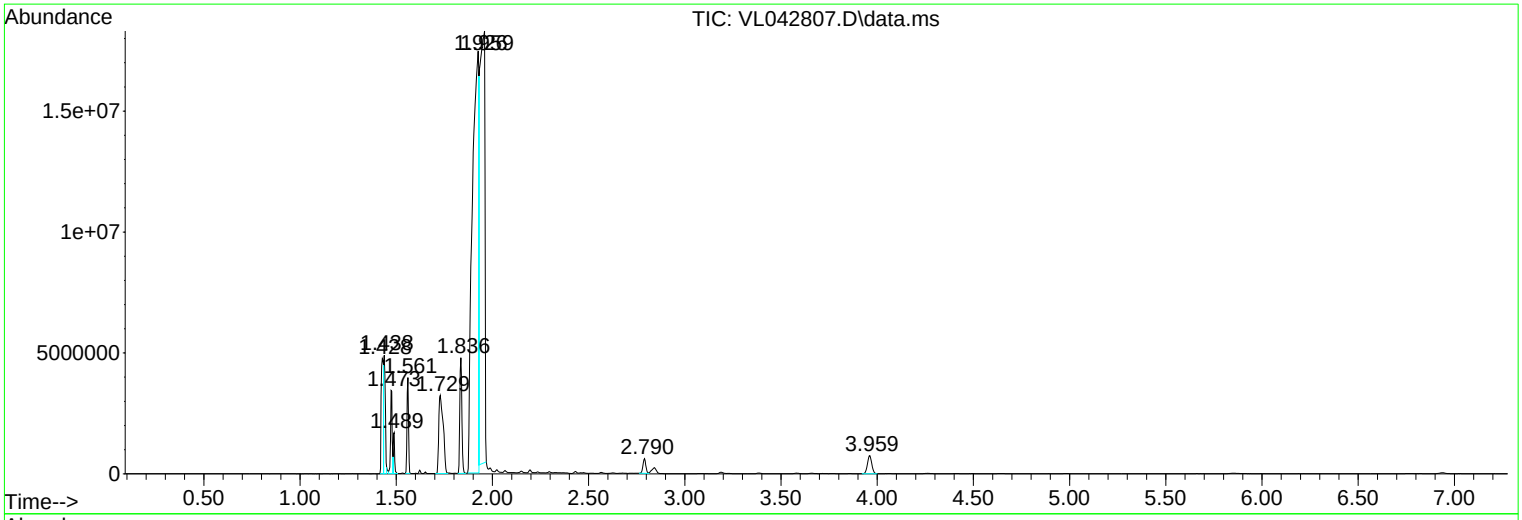
Sum of corrected areas: 102519921

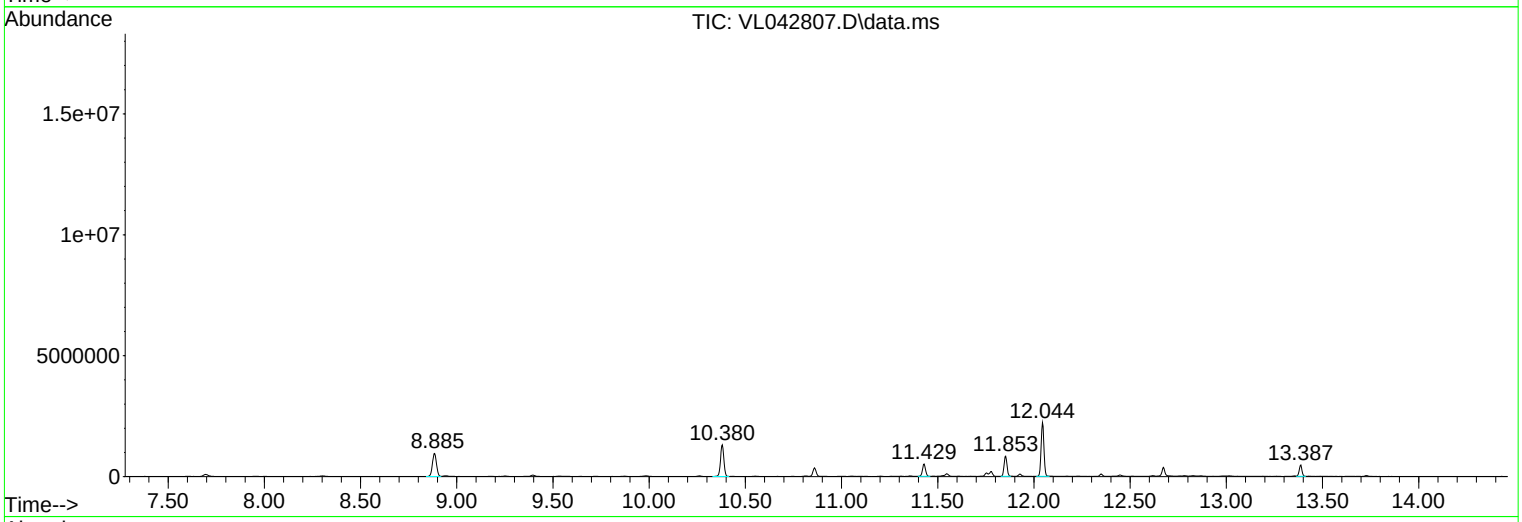
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042807.D
Acq On : 04 Aug 2025 16:17
Operator : SY/MD
Sample : Q2750-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

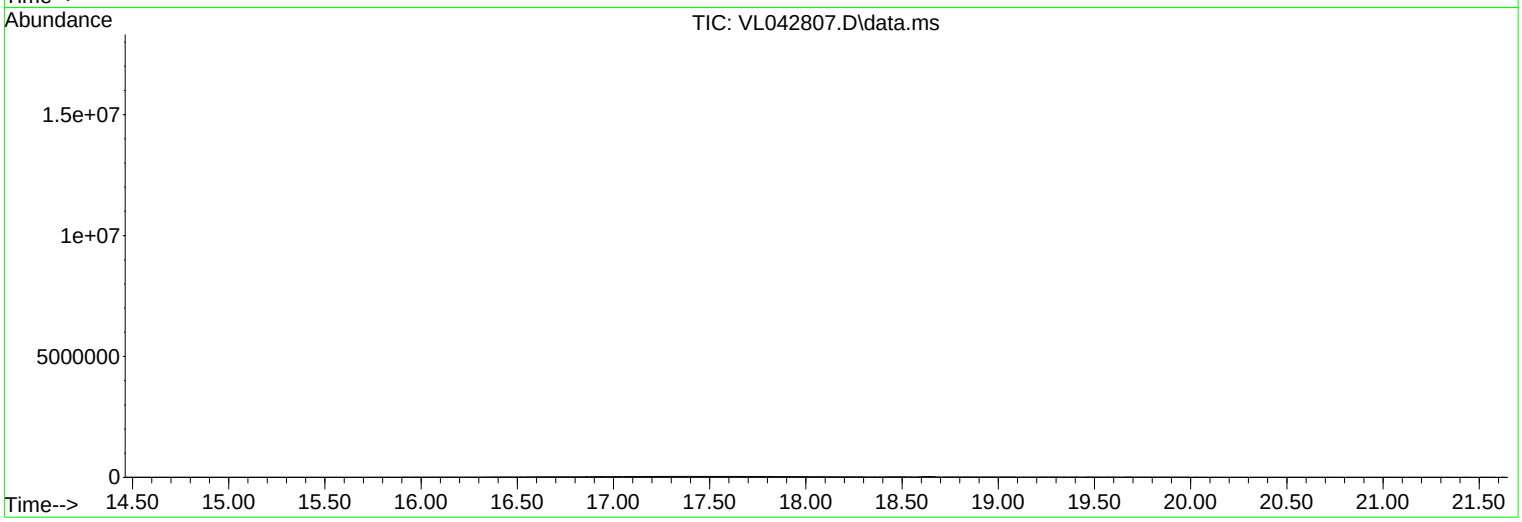
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042807.D
Acq On : 04 Aug 2025 16:17
Operator : SY/MD
Sample : Q2750-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

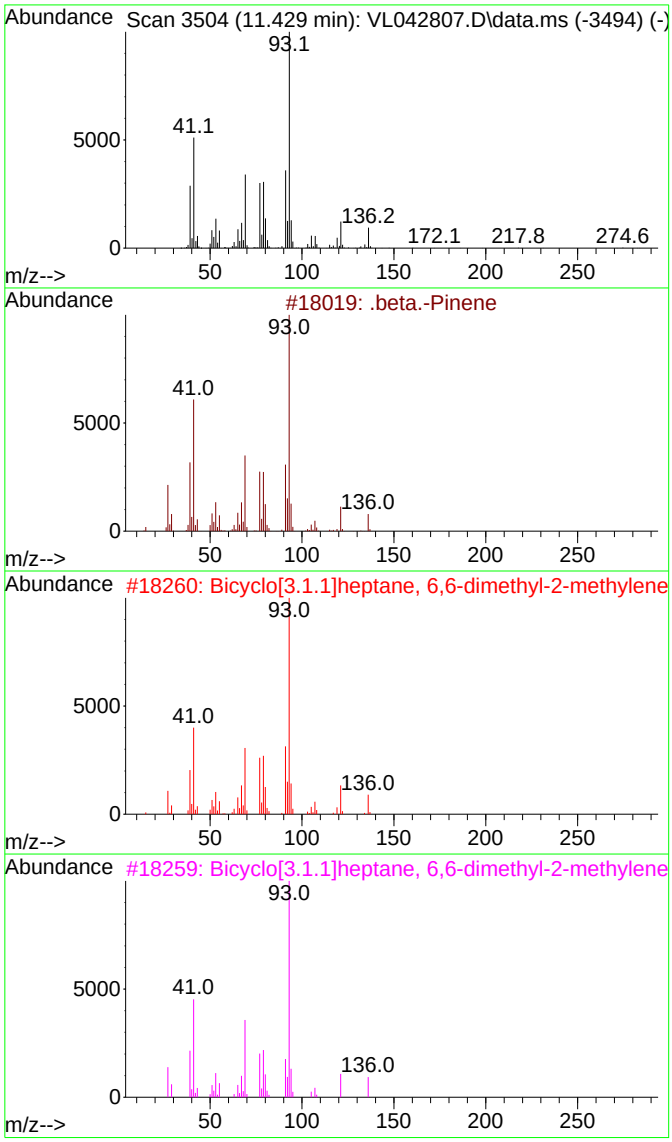
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

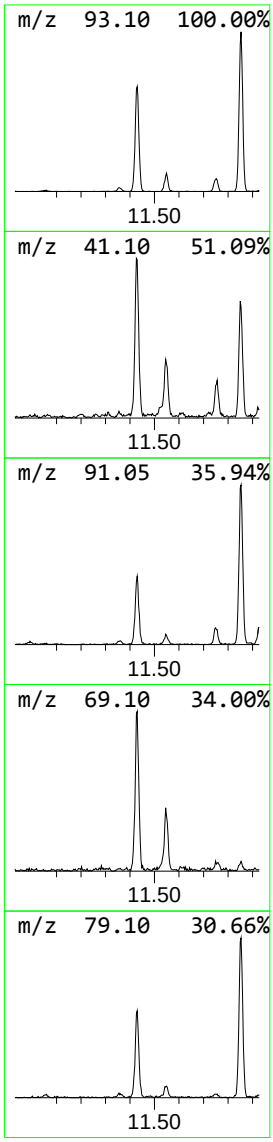
****

Peak Number 1 .beta.-Pinene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.429	4.03 ppbv	561482	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Pinene	136	C10H16	000127-91-3	96
2	Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	96
3	Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	95
4	Cyclohexene, 4-methylene-1-(1-me...	136	C10H16	000099-84-3	91
5	.alpha.-Pinene	136	C10H16	000080-56-8	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042807.D
Acq On : 04 Aug 2025 16:17
Operator : SY/MD
Sample : Q2750-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

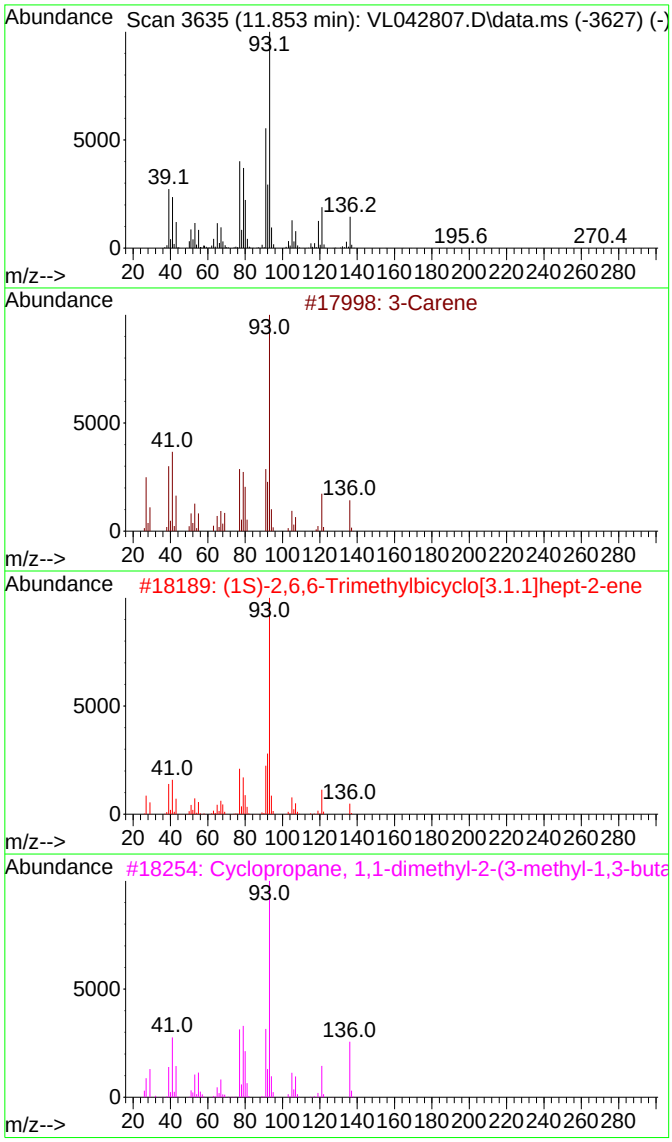
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

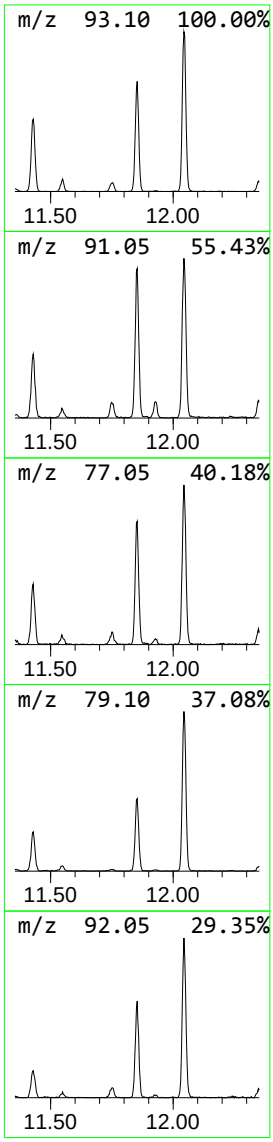
****

Peak Number 2 3-Carene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.853	6.36 ppbv	885230	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Carene	136	C10H16	013466-78-9	94
2	(1S)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-26-4	90
3	Cyclopropane, 1,1-dimethyl-2-(3-...	136	C10H16	068998-21-0	90
4	Cyclopentene, 3-isopropenyl-5,5-...	136	C10H16	1000162-25-4	90
5	.gamma.-Terpinene	136	C10H16	000099-85-4	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042807.D
Acq On : 04 Aug 2025 16:17
Operator : SY/MD
Sample : Q2750-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

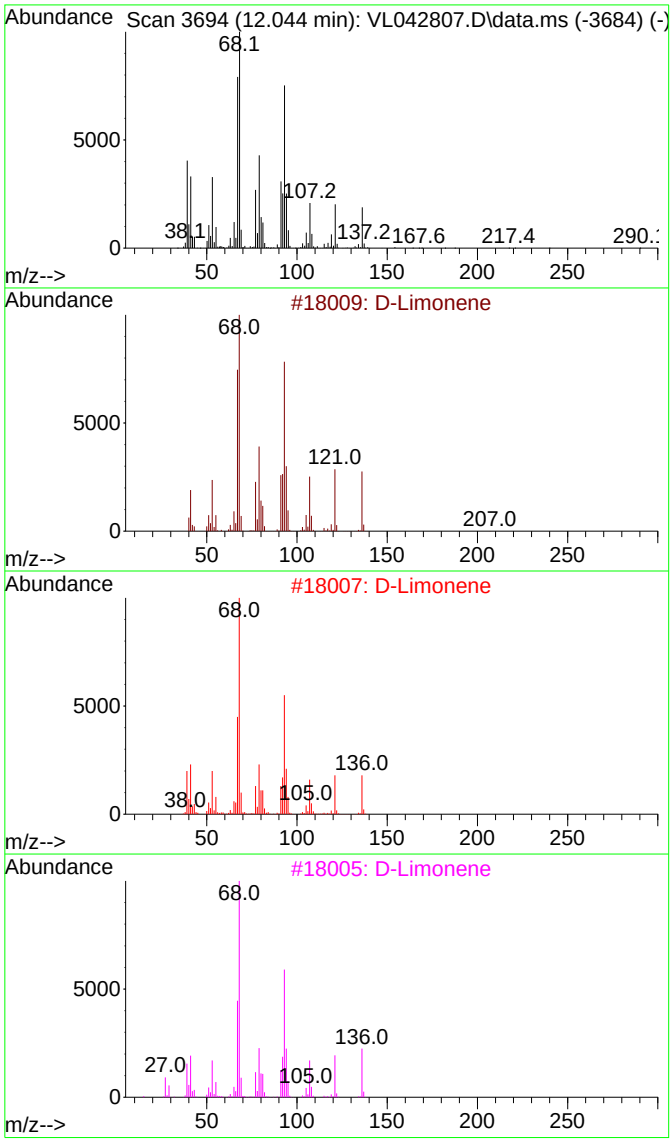
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

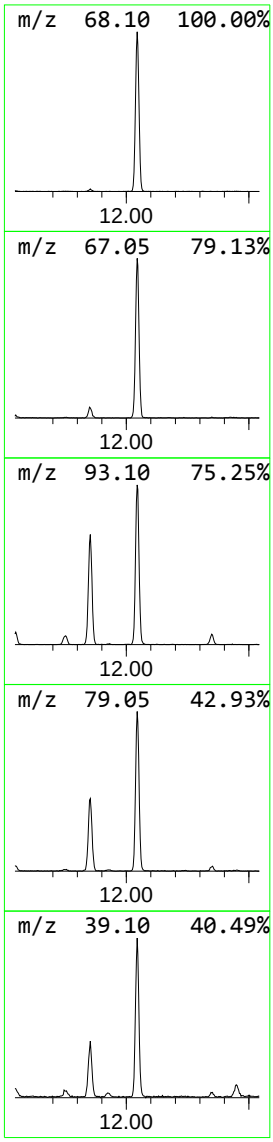
****

Peak Number 3 D-Limonene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.044	16.53 ppbv	2302670	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	98
2	D-Limonene	136	C10H16	005989-27-5	94
3	D-Limonene	136	C10H16	005989-27-5	93
4	D-Limonene	136	C10H16	005989-27-5	93
5	Limonene	136	C10H16	000138-86-3	89





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042807.D
Acq On : 04 Aug 2025 16:17
Operator : SY/MD
Sample : Q2750-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

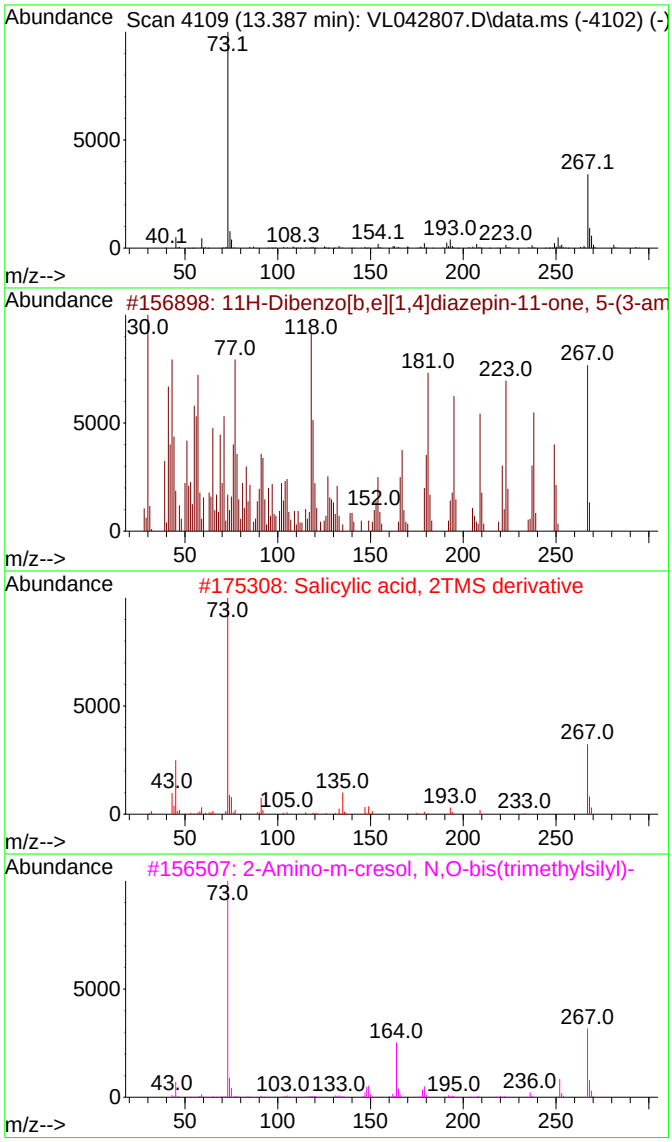
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

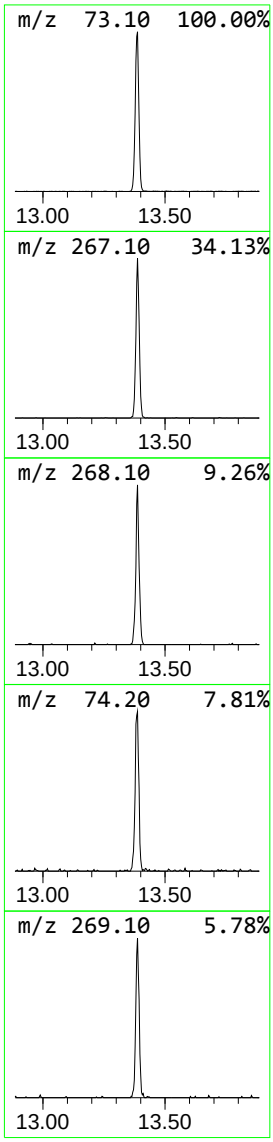
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.387	3.33 ppbv	463652	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	94
2	Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	64
3	2-Amino-m-cresol, N,O-bis(trimet...	267	C13H25NOSi2	1000449-77-1	59
4	5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	59
5	Acridone, TMS derivative	267	C16H17NOSi	1000478-16-0	53





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042807.D
Acq On : 04 Aug 2025 16:17
Operator : SY/MD
Sample : Q2750-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
.beta.-Pinene	11.429	4.0	ppbv	561482	3	8.885	1392900	10.0
3-Carene	11.853	6.4	ppbv	885230	3	8.885	1392900	10.0
D-Limonene	12.044	16.5	ppbv	2302670	3	8.885	1392900	10.0
11H-Dibenzo[b,e...	13.387	3.3	ppbv	463652	3	8.885	1392900	10.0

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-9DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-08DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042819.D	20		08/04/25 23:04	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.20	10.9	UD	10.9	49.5	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.50	1.28	UD	1.28	1.53	ug/m3
74-83-9	Bromomethane	1.50	5.82	UD	5.82	38.8	ug/m3
75-00-3	Chloroethane	3.00	7.92	UD	7.92	26.4	ug/m3
109-99-9	Tetrahydrofuran	1.60	4.72	UD	4.72	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.40	19.1	UD	19.1	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	2.80	21.5	UD	21.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.00	21.0	UD	21.0	69.9	ug/m3
75-65-0	tert-Butyl alcohol	3.20	9.70	UD	9.70	30.3	ug/m3
142-82-5	Heptane	3.40	13.9	UD	13.9	41.0	ug/m3
75-35-4	1,1-Dichloroethene	3.00	11.9	UD	11.9	39.6	ug/m3
67-64-1	Acetone	150	356	D	8.55	23.8	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.60	16.6	UD	16.6	36.0	ug/m3
75-09-2	Methylene Chloride	5.60	19.4	JD	16.0	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	2.40	9.52	UD	9.52	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	1.10	3.24	UD	3.24	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.50	3.15	UD	3.15	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	2.00	7.93	UD	7.93	39.6	ug/m3
67-66-3	Chloroform	1.90	9.28	UD	9.28	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.32	1.75	UD	1.75	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	2.80	13.1	UD	13.1	46.7	ug/m3
71-43-2	Benzene	1.60	5.11	UD	5.11	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.90	7.69	UD	7.69	40.5	ug/m3
79-01-6	Trichloroethene	0.48	2.58	UD	2.58	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.60	12.0	UD	12.0	46.2	ug/m3
75-27-4	Bromodichloromethane	1.30	8.71	UD	8.71	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	3.20	12.1	UD	12.1	37.7	ug/m3
10061-02-6	t-1,3-Dichloropropene	3.00	13.6	UD	13.6	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.20	9.99	UD	9.99	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.60	8.73	UD	8.73	54.6	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-9DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-08DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042819.D	20		08/04/25 23:04	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	1.70	14.5	UD	14.5	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.70	13.1	UD	13.1	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	3.80	16.5	UD	16.5	43.4	ug/m3
179601-23-1	m/p-Xylene	8.20	35.6	UD	35.6	86.9	ug/m3
95-47-6	o-Xylene	4.20	18.2	UD	18.2	43.4	ug/m3
100-42-5	Styrene	3.20	13.6	UD	13.6	42.6	ug/m3
75-25-2	Bromoform	0.96	9.93	UD	9.93	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.36	2.47	UD	2.47	4.12	ug/m3
95-49-8	2-Chlorotoluene	3.40	17.6	UD	17.6	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.60	17.7	UD	17.7	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	2.60	15.6	UD	15.6	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	4.20	31.2	UD	31.2	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	2.60	27.7	UD	27.7	107	ug/m3
106-99-0	1,3-Butadiene	1.00	2.21	UD	2.21	22.1	ug/m3
91-20-3	Naphthalene	0.26	1.36	UD	1.36	10.5	ug/m3
622-96-8	4-Ethyltoluene	4.20	20.6	UD	20.6	49.2	ug/m3
110-54-3	Hexane	3.20	11.3	UD	11.3	35.2	ug/m3
107-05-1	Allyl Chloride	2.20	6.89	UD	6.89	31.3	ug/m3
123-91-1	1,4-Dioxane	4.40	15.9	UD	15.9	36.0	ug/m3
80-62-6	Methyl Methacrylate	2.80	11.5	UD	11.5	41.0	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.70			70 (65) - 130 (135)	97%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	146000		2.784			
540-36-3	1,4-Difluorobenzene	370000		3.952			
3114-55-4	Chlorobenzene-d5	315000		8.875			

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-9DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-08DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042819.D	20		08/04/25 23:04	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042819.D
Acq On : 04 Aug 2025 23:04
Operator : SY/MD
Sample : Q2750-08DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:14:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	146039	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	370265	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	315446	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.371	95	241976	9.686	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.900%				
Target Compounds							Qvalue
3) Chlorodifluoromethane	1.473	51	72506	2.883	ppbv		98
9) Propene	1.486	41	7131m	0.780	ppbv		
13) Ethanol	1.719	45	147608	220.605	ppbv		90
15) Acetone	1.832	43	154472	7.660	ppbv		99
19) Isopropyl Alcohol	1.887	45	3693911	344.700	ppbv	#	40
20) Methylene Chloride	2.062	84	1789	0.282	ppbv	#	61

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

Quantitation Report (QT Reviewed)

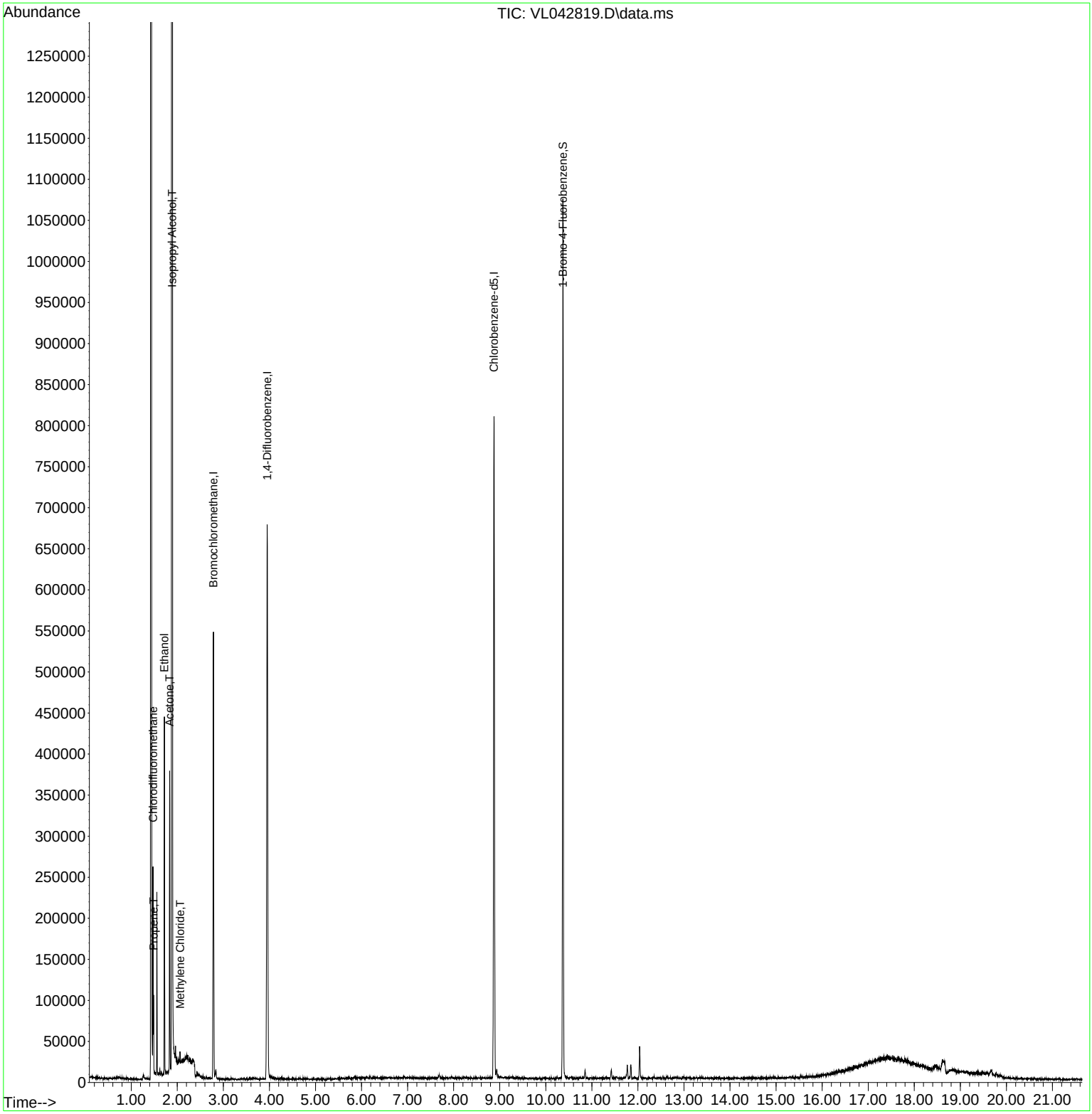
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042819.D
Acq On : 04 Aug 2025 23:04
Operator : SY/MD
Sample : Q2750-08DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

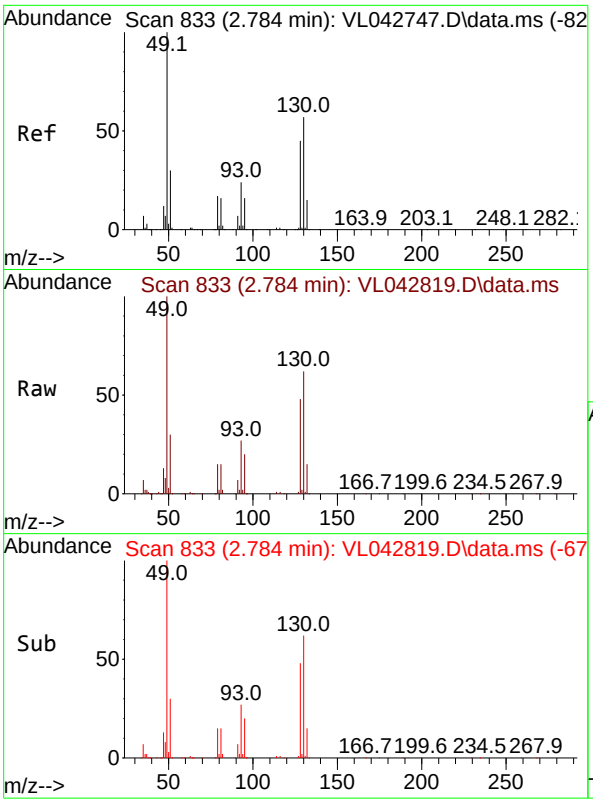
Quant Time: Aug 05 01:14:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

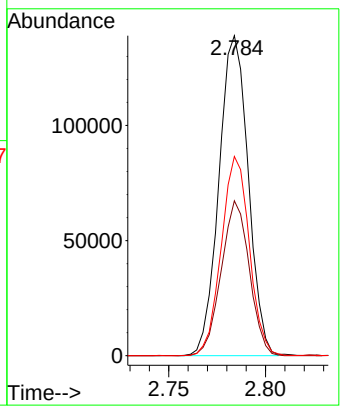




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 49 Resp: 14603

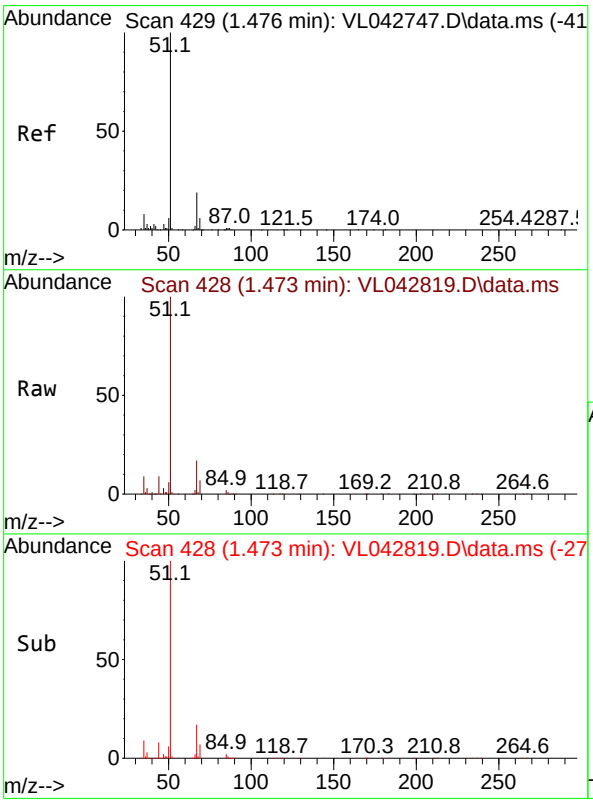
Ion	Ratio	Lower	Upper
49	100		
128	46.5	23.6	71.0
130	59.9	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Manual Integrations
APPROVED

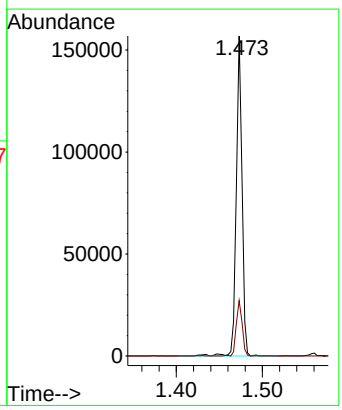
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

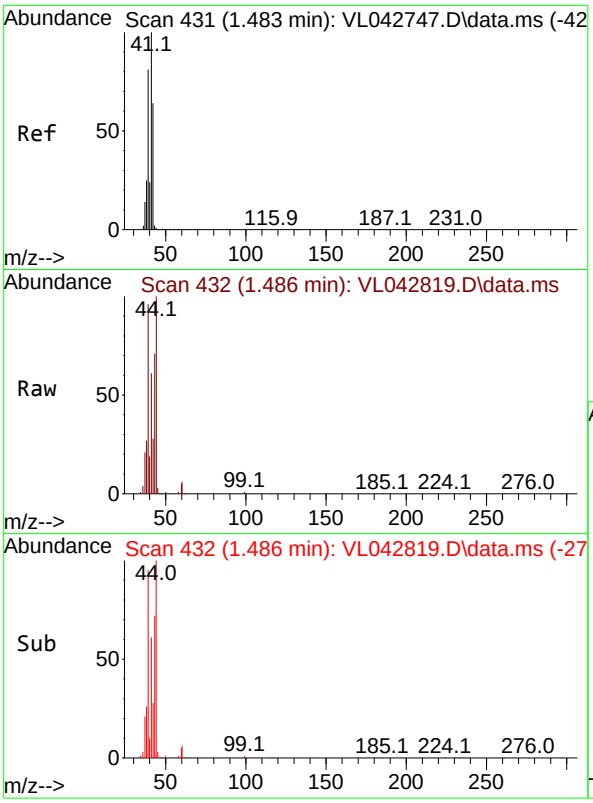


#3
Chlorodifluoromethane
Concen: 2.883 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 51 Resp: 72506

Ion	Ratio	Lower	Upper
51	100		
67	17.8	15.0	22.6

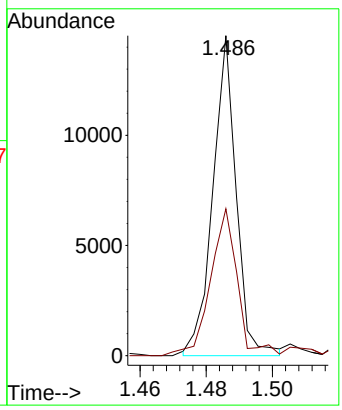




#9
Propene
Concen: 0.780 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 41 Resp: 713

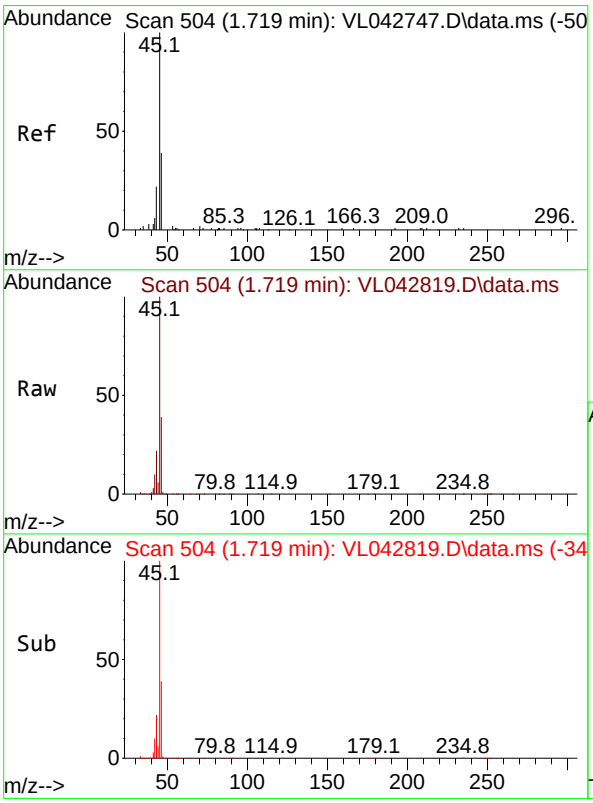
Ion	Ratio	Lower	Upper
41	100		
42	6957.8	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Manual Integrations
APPROVED

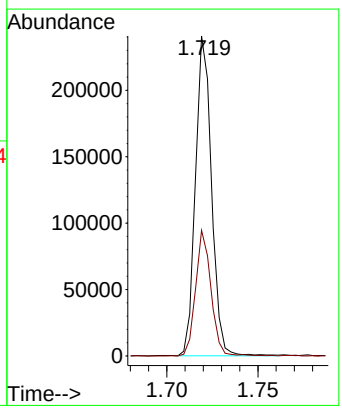
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

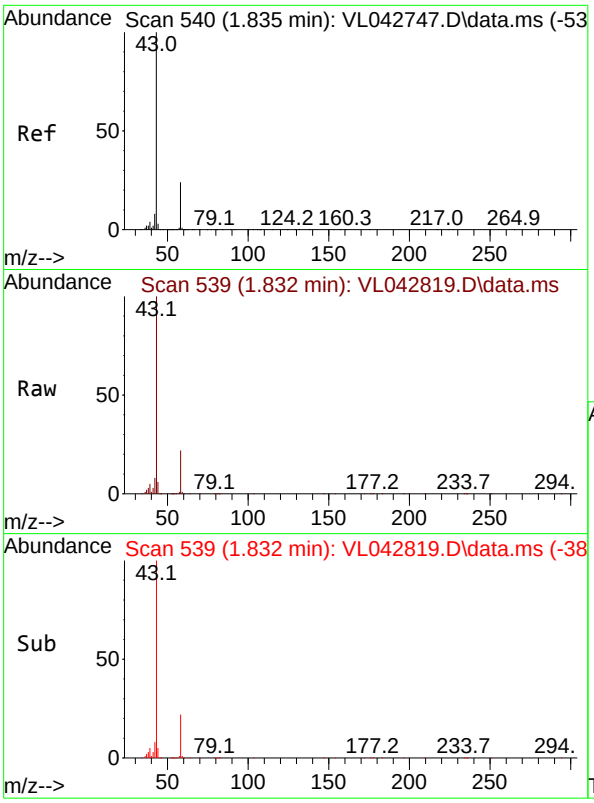


#13
Ethanol
Concen: 220.605 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 45 Resp: 147608

Ion	Ratio	Lower	Upper
45	100		
46	37.8	17.8	71.4

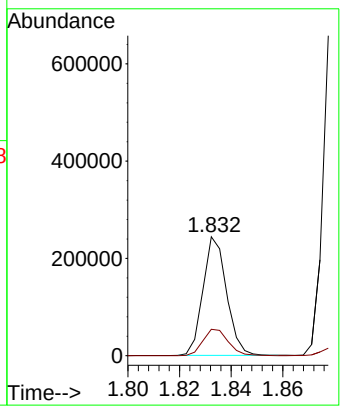




#15
Acetone
Concen: 7.660 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 43 Resp: 15447

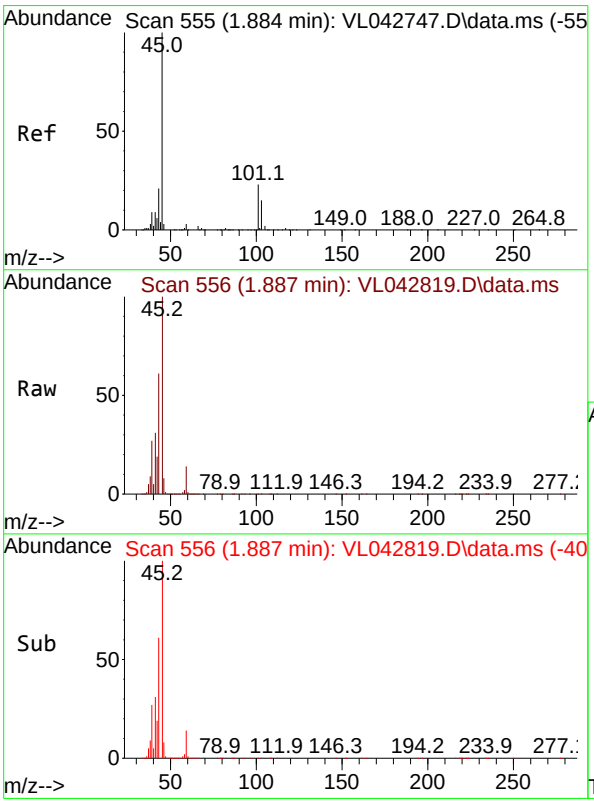
Ion	Ratio	Lower	Upper
43	100		
58	24.1	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Manual Integrations
APPROVED

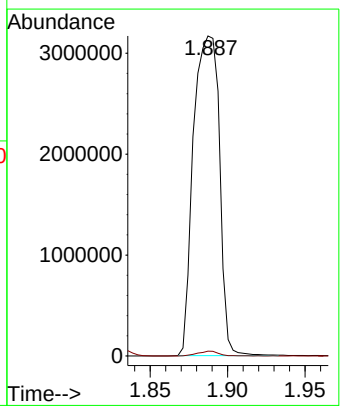
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

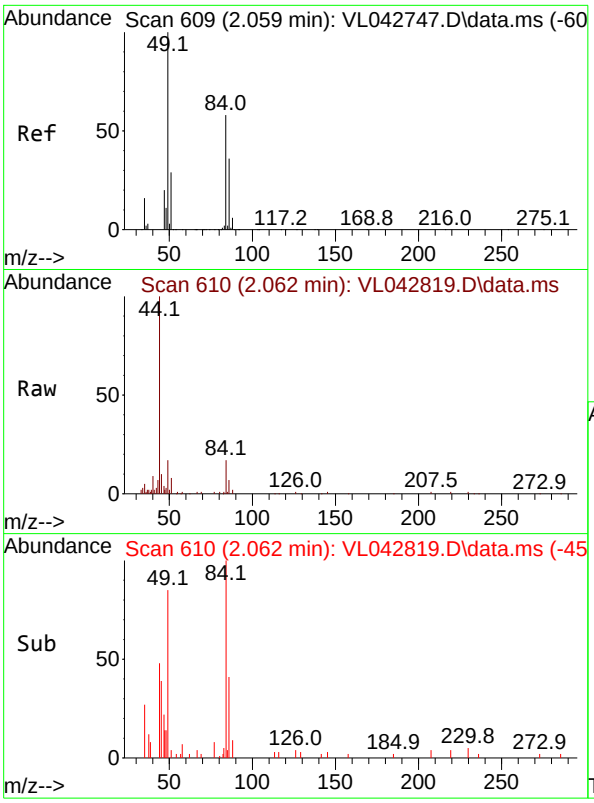


#19
Isopropyl Alcohol
Concen: 344.700 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 45 Resp: 3693911

Ion	Ratio	Lower	Upper
45	100		
58	1.3	30.0	45.0#

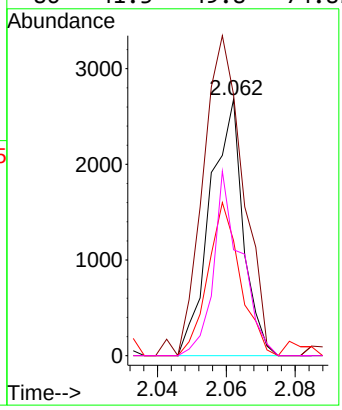




#20
Methylene Chloride
Concen: 0.282 ppbv
RT: 2.062 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 84 Resp: 178

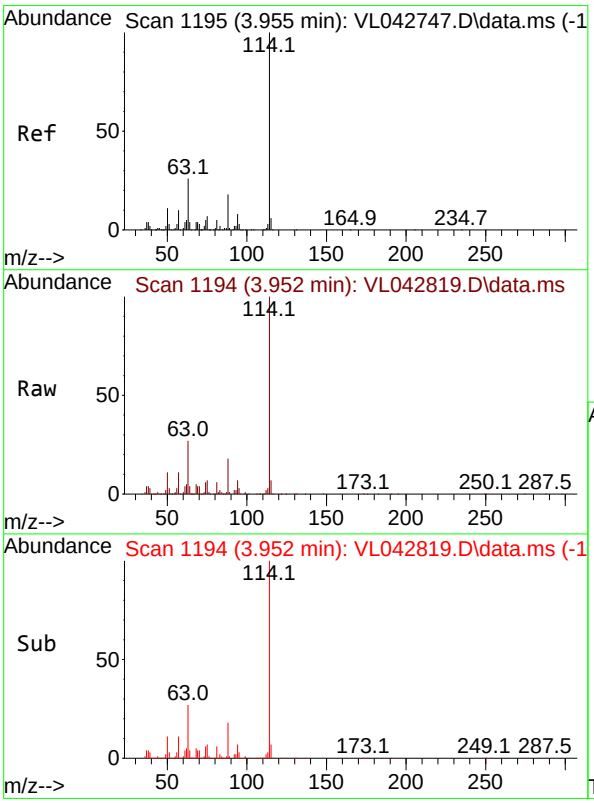
Ion	Ratio	Lower	Upper
84	100		
49	101.9	138.6	208.0#
51	44.9	40.6	61.0
86	41.3	49.8	74.8#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Manual Integrations
APPROVED

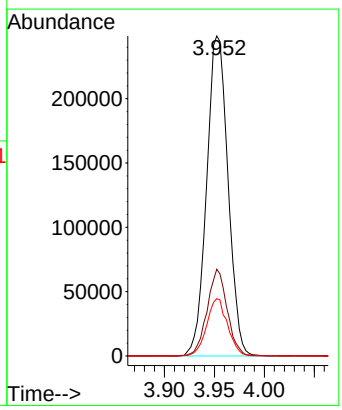
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

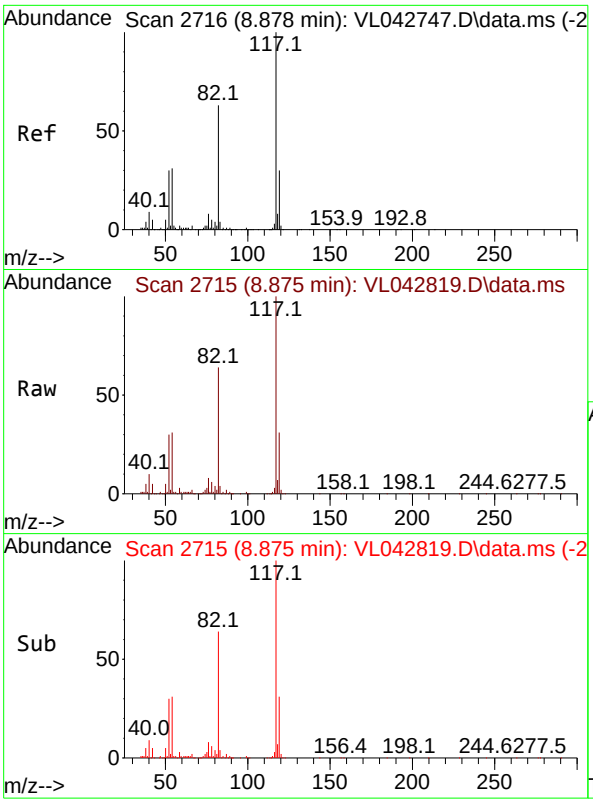


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion:114 Resp: 370265

Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.5	30.7
88	17.4	14.0	21.0

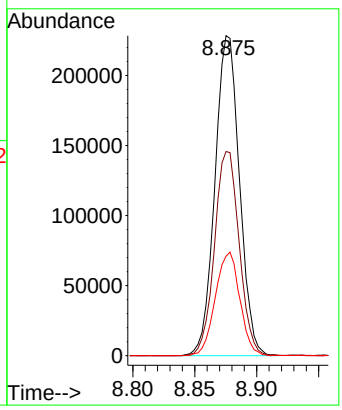




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion:117 Resp: 31544

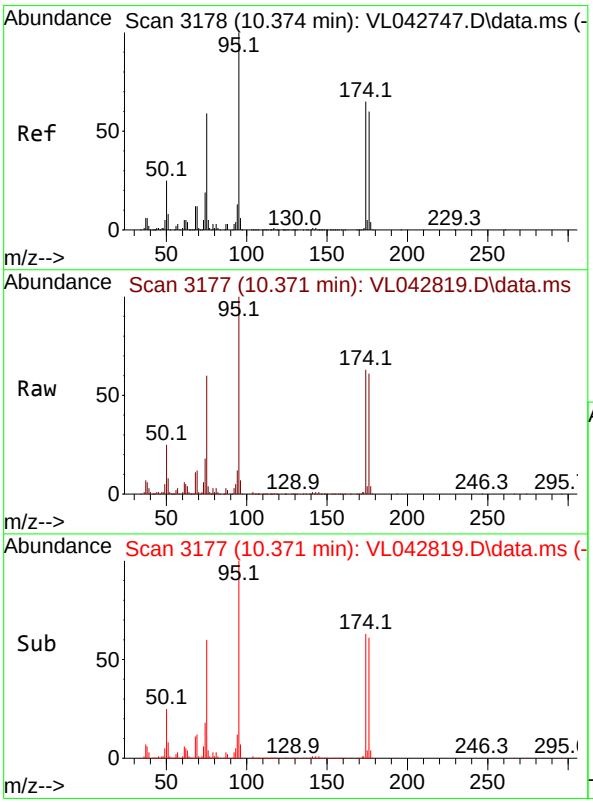
Ion	Ratio	Lower	Upper
117	100		
82	64.2	53.3	79.9
119	32.4	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Manual Integrations
APPROVED

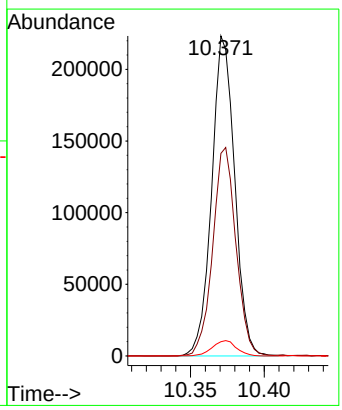
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.686 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 95 Resp: 241976

Ion	Ratio	Lower	Upper
95	100		
174	66.3	53.8	80.6
175	5.1	4.0	6.0



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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-10	SDG No.:	Q2750
Lab Sample ID:	Q2750-09	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042808.D	1		08/04/25 16:51	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.51	2.52		0.54	2.47	ug/m3
74-87-3	Chloromethane	0.90	1.86		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.16	0.47	J	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.25	1.40	J	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.26	1.07	J	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	14.7	34.9		0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	0.080	0.25	U	0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	1.30	4.52		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	1.30	3.83		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.080	0.50		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.11	0.54	J	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.32	1.02	J	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.33	1.24	J	0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-10	SDG No.:	Q2750
Lab Sample ID:	Q2750-09	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042808.D	1		08/04/25 16:51	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	U	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.46	2.41		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	2.10	7.40		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			70 (65) - 130 (135)	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	152000		2.784			
540-36-3	1,4-Difluorobenzene	421000		3.955			
3114-55-4	Chlorobenzene-d5	368000		8.878			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	8.00		J		1.47	ppbv
115-07-1	Propene	69.8		J		1.49	ppbv
64-17-5	Ethanol	1000		J		1.72	ppbv

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-10	SDG No.:	Q2750
Lab Sample ID:	Q2750-09	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042808.D	1		08/04/25 16:51	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	260		J		1.89	ppbv
99-87-6	p-Isopropyltoluene	0.29		J		11.9	ppbv

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\VL080425\
Data File : VL042808.D
Acq On : 04 Aug 2025 16:51
Operator : SY/MD
Sample : Q2750-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:09:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	152020	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	420636	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	367596	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	293841	10.094	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	10303	0.513	ppbv		99
3) Chlorodifluoromethane	1.473	51	210688	8.047	ppbv		98
4) Chloromethane	1.531	50	7293	0.897	ppbv		99
9) Propene	1.486	41	663769m	69.753	ppbv		
10) Heptane	4.985	43	6628m	0.258	ppbv		
11) Trichlorofluoromethane	1.877	101	5149	0.249	ppbv		93
13) Ethanol	1.722	45	712063	1026.518	ppbv		90
15) Acetone	1.832	43	309064	14.723	ppbv		95
19) Isopropyl Alcohol	1.887	45	2902165	260.163	ppbv	#	39
20) Methylene Chloride	2.059	84	8310	1.256	ppbv		96
26) Hexane	2.826	57	42822	2.101	ppbv	#	48
29) Chloroform	2.852	83	3352m	0.106	ppbv		
34) 2-Butanone	2.554	43	38827	1.303	ppbv		98
35) Carbon Tetrachloride	3.761	117	2615m	0.084	ppbv		
36) Benzene	3.658	78	12707	0.319	ppbv		98
41) Tetrahydrofuran	3.062	42	2451m	0.162	ppbv		
44) 2,2,4-Trimethylpentane	4.645	57	6498m	0.100	ppbv		
53) Toluene	6.933	91	13897	0.325	ppbv		99
59) m/p-Xylene	9.529	91	6348m	0.137	ppbv		
69) p-Isopropyltoluene	11.924	119	20163	0.286	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	5708	0.115	ppbv	#	63
79) Naphthalene	13.513	128	1257	0.457	ppbv	#	88

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

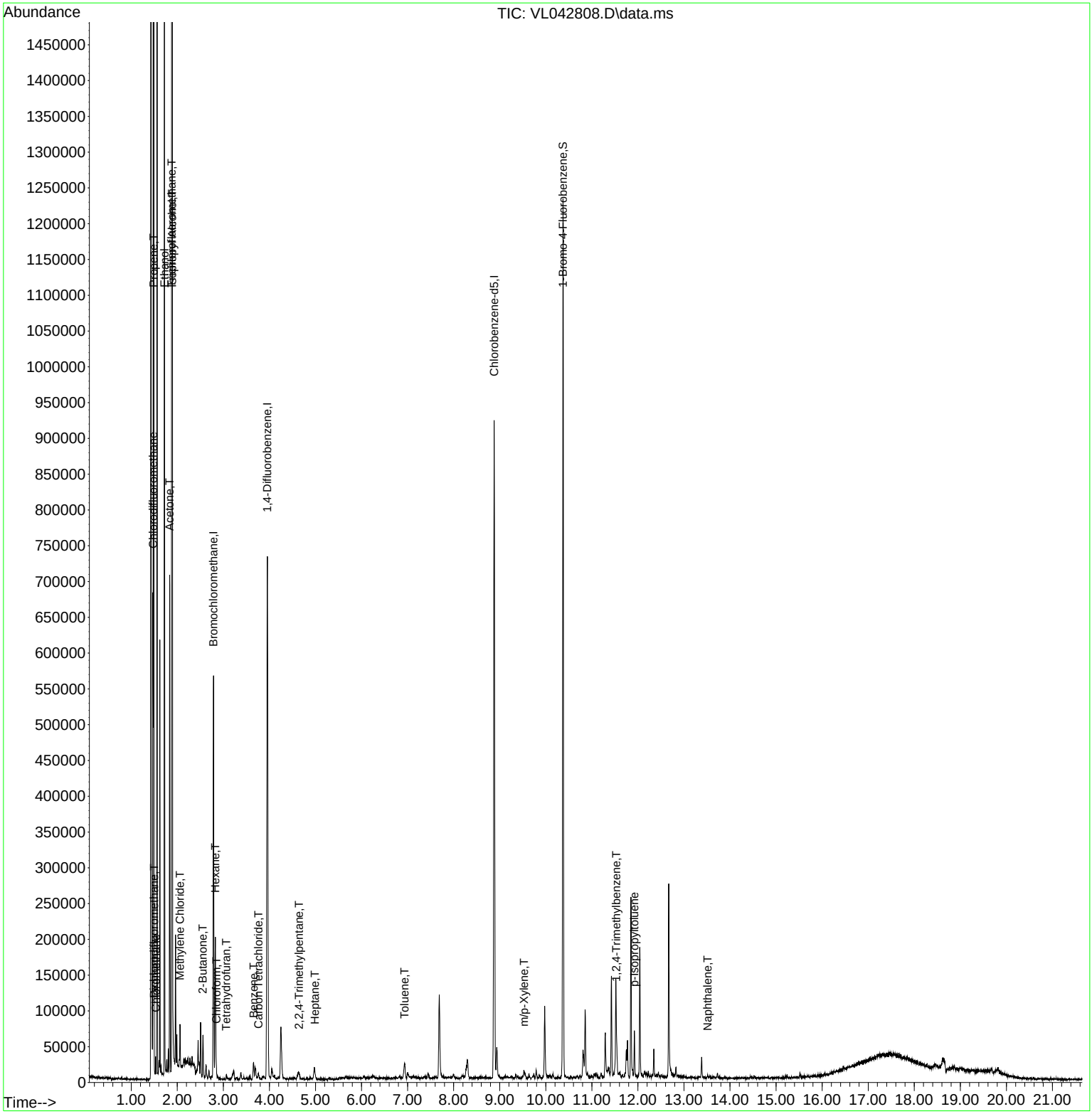
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042808.D
Acq On : 04 Aug 2025 16:51
Operator : SY/MD
Sample : Q2750-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

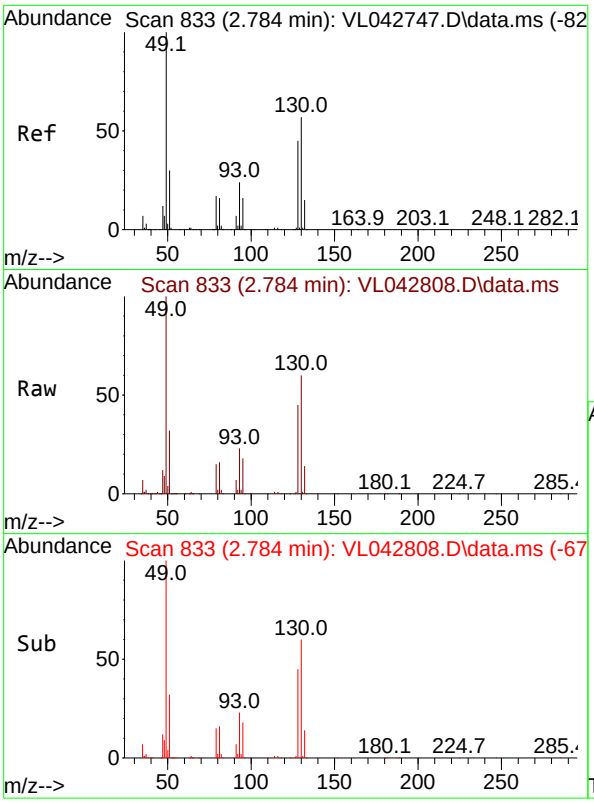
Quant Time: Aug 05 01:09:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

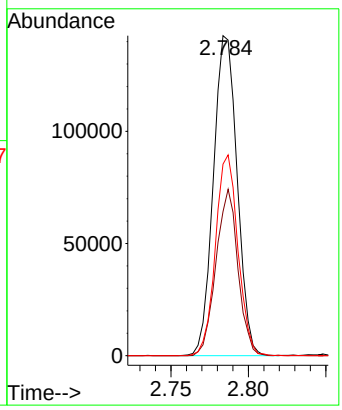




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 49 Resp: 15202

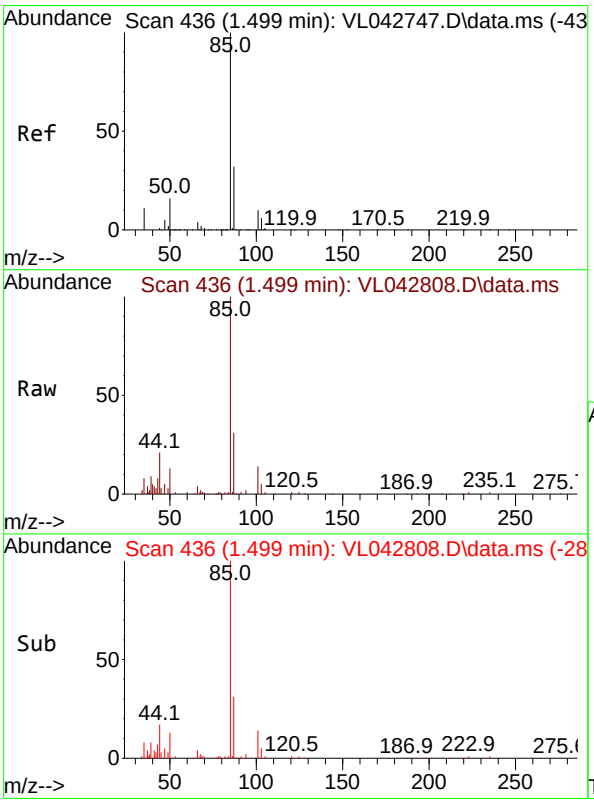
Ion	Ratio	Lower	Upper
49	100		
128	48.0	23.6	71.0
130	59.4	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations
APPROVED

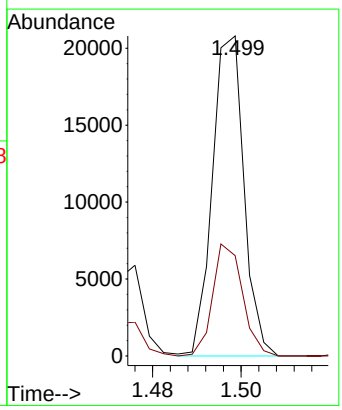
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

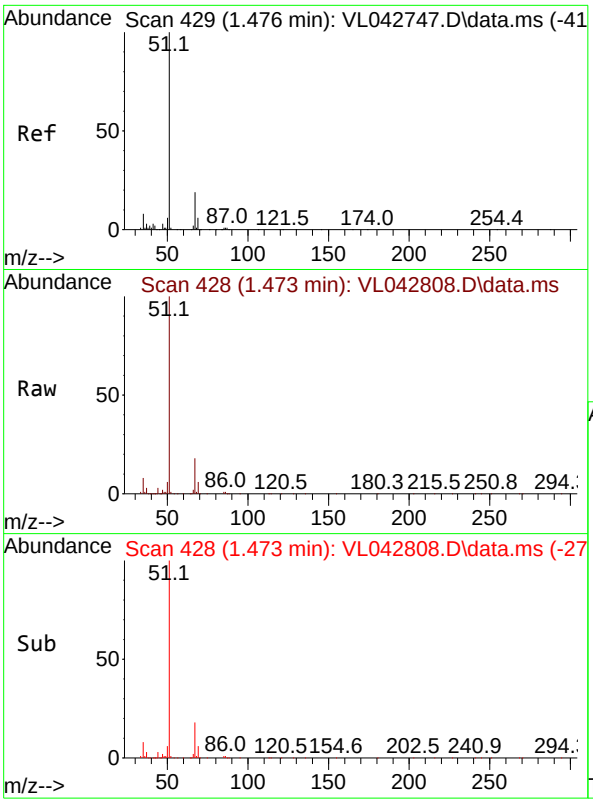


#2
Dichlorodifluoromethane
Concen: 0.513 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 85 Resp: 10303

Ion	Ratio	Lower	Upper
85	100		
87	31.3	25.4	38.2

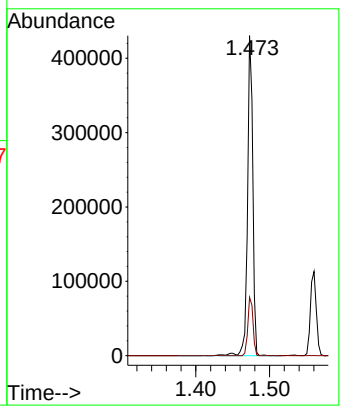




#3
Chlorodifluoromethane
Concen: 8.047 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 51 Resp: 21068

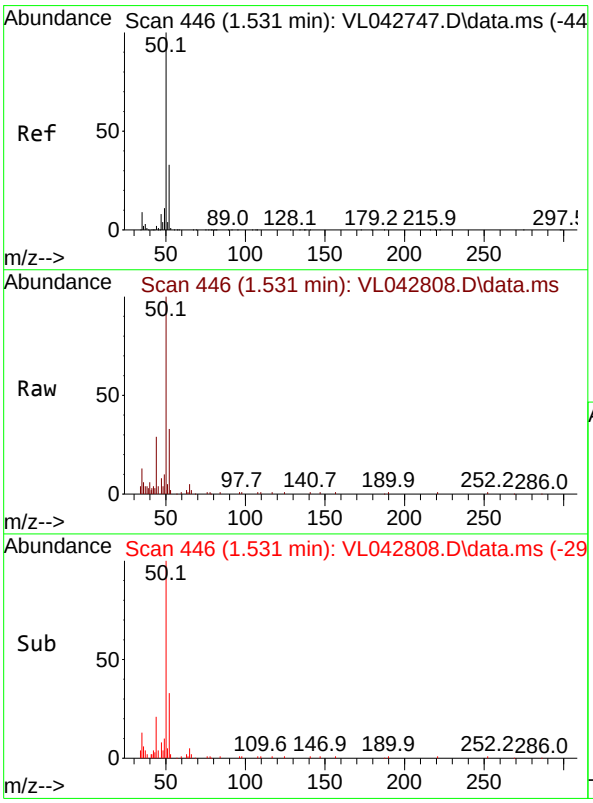
Ion	Ratio	Lower	Upper
51	100		
67	18.0	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations
APPROVED

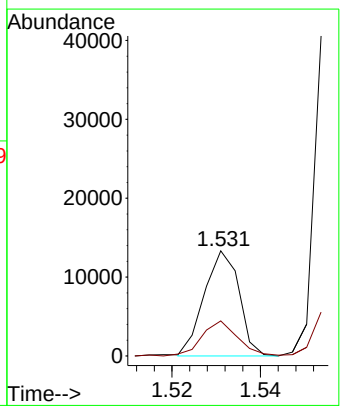
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

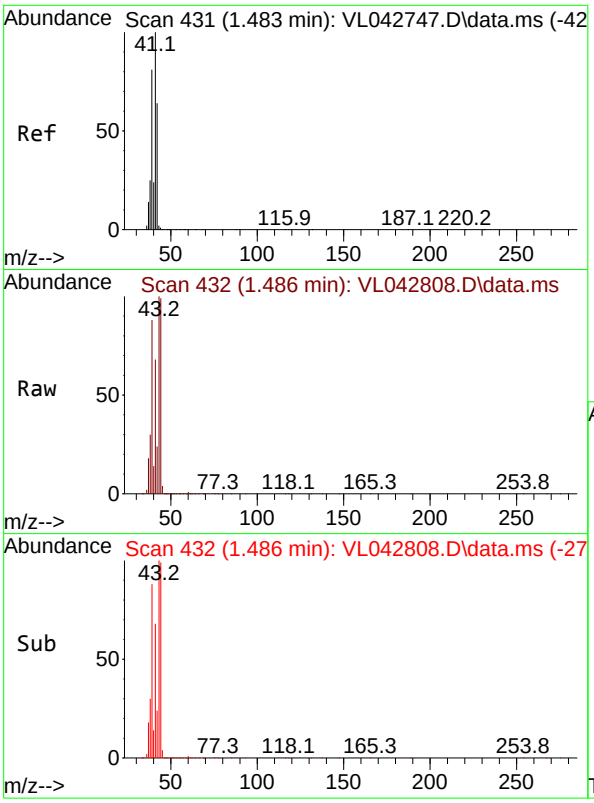


#4
Chloromethane
Concen: 0.897 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 50 Resp: 7293

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.6	40.0

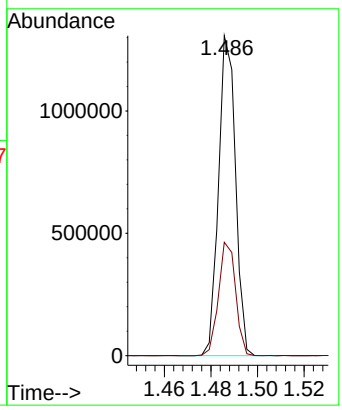




#9
Propene
Concen: 69.753 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 41 Resp: 66376

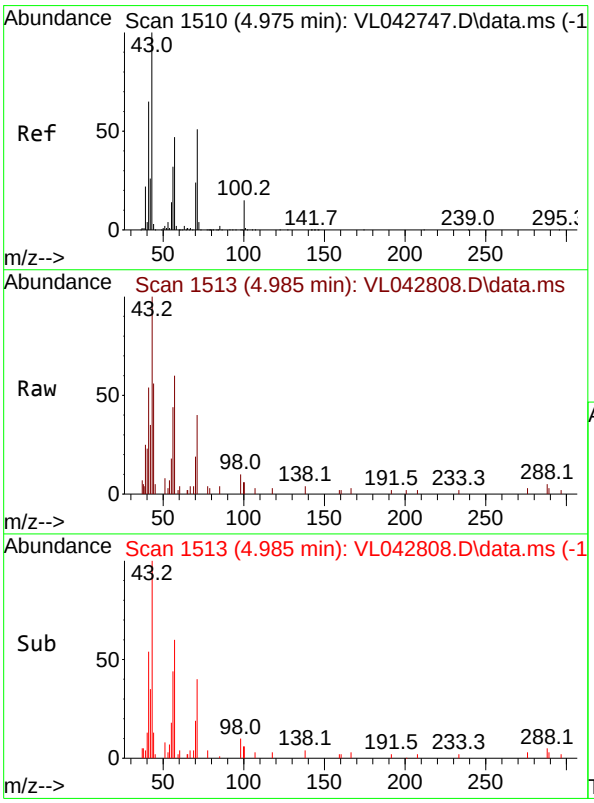
Ion	Ratio	Lower	Upper
41	100		
42	44.2	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations
APPROVED

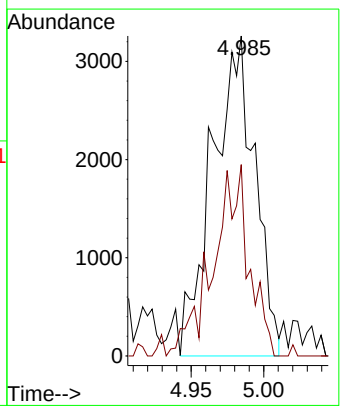
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

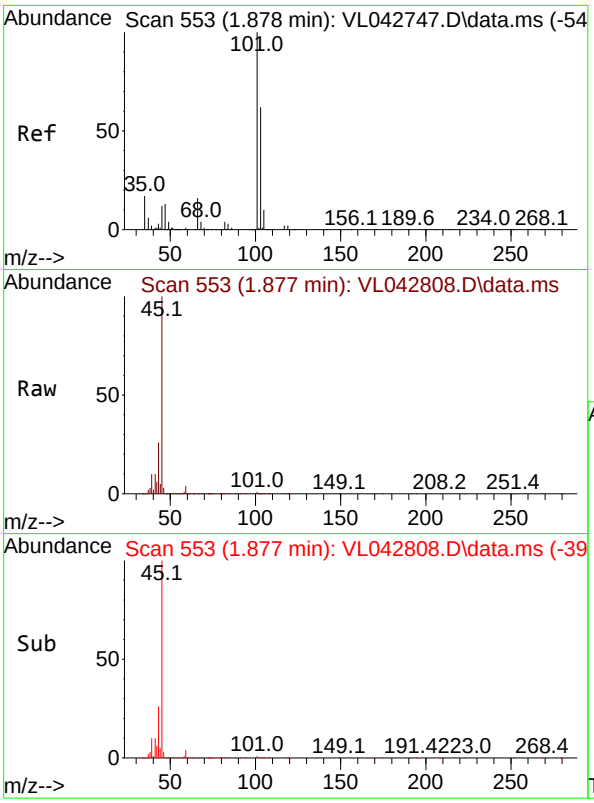


#10
Heptane
Concen: 0.258 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. 0.010 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 43 Resp: 6628

Ion	Ratio	Lower	Upper
43	100		
57	50.7	39.9	59.9

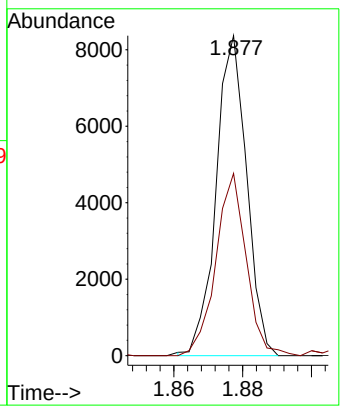




#11
Trichlorofluoromethane
Concen: 0.249 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion:101 Resp: 514

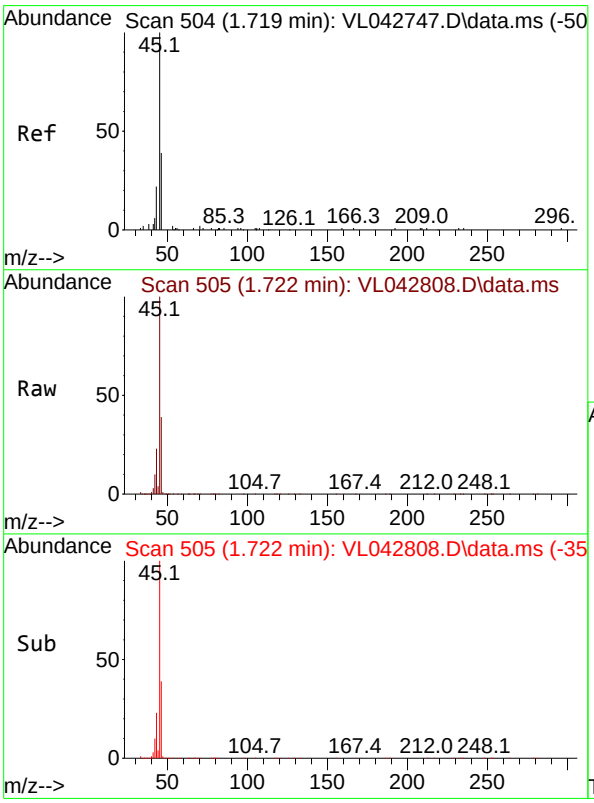
Ion	Ratio	Lower	Upper
101	100		
103	56.9	49.6	74.4



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations
APPROVED

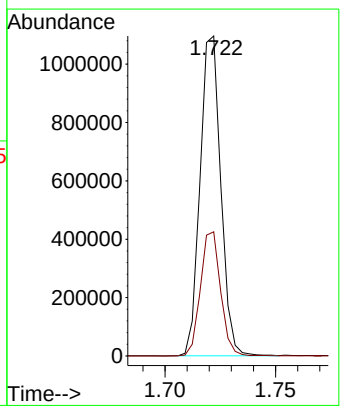
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

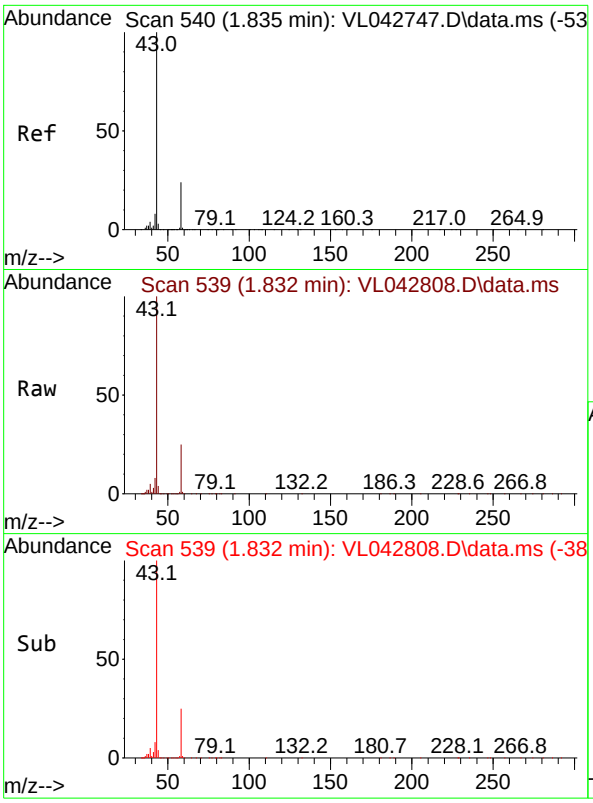


#13
Ethanol
Concen: 1026.518 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 45 Resp: 712063

Ion	Ratio	Lower	Upper
45	100		
46	38.1	17.8	71.4

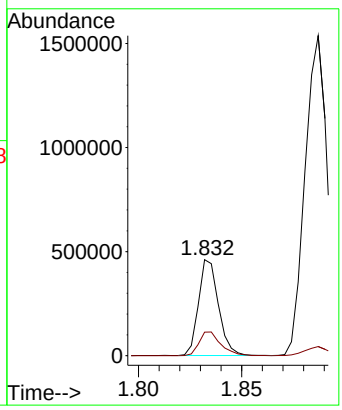




#15
Acetone
Concen: 14.723 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 43 Resp: 30906

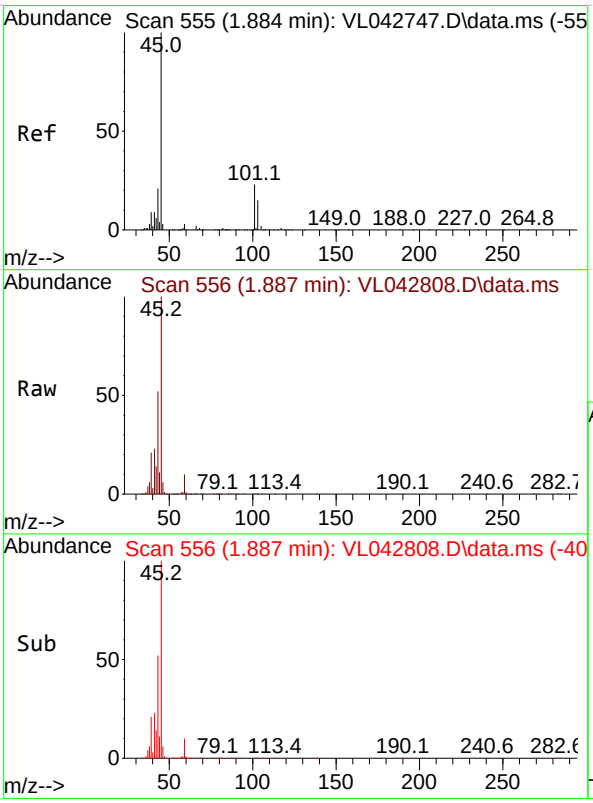
Ion	Ratio	Lower	Upper
43	100		
58	27.3	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations
APPROVED

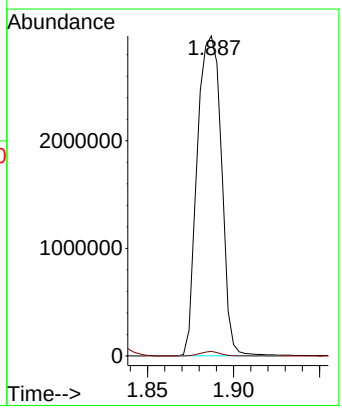
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

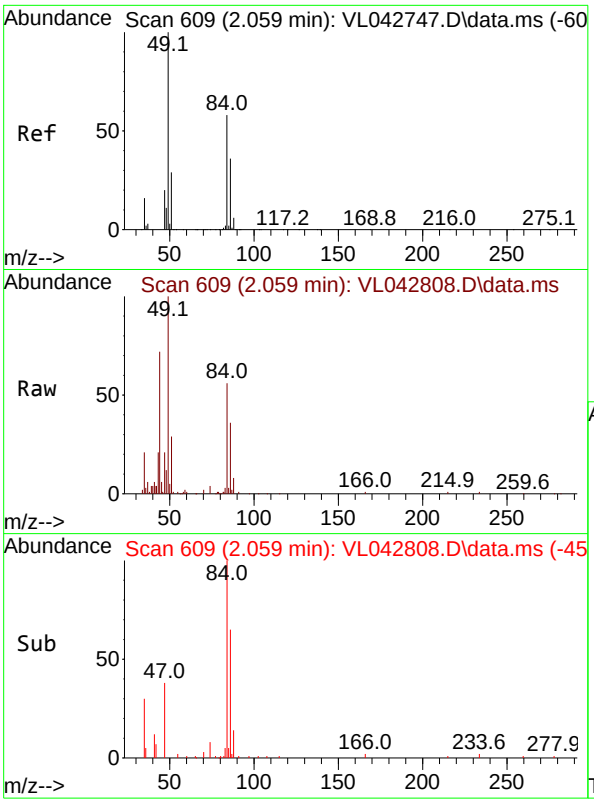


#19
Isopropyl Alcohol
Concen: 260.163 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 45 Resp: 2902165

Ion	Ratio	Lower	Upper
45	100		
58	1.2	30.0	45.0#

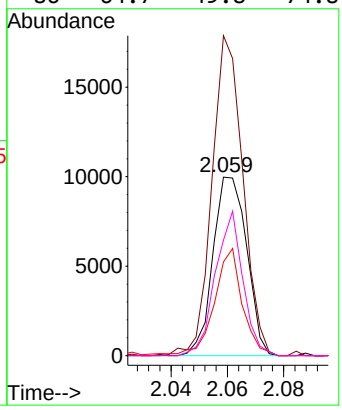




#20
Methylene Chloride
Concen: 1.256 ppbv
RT: 2.059 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 84 Resp: 831

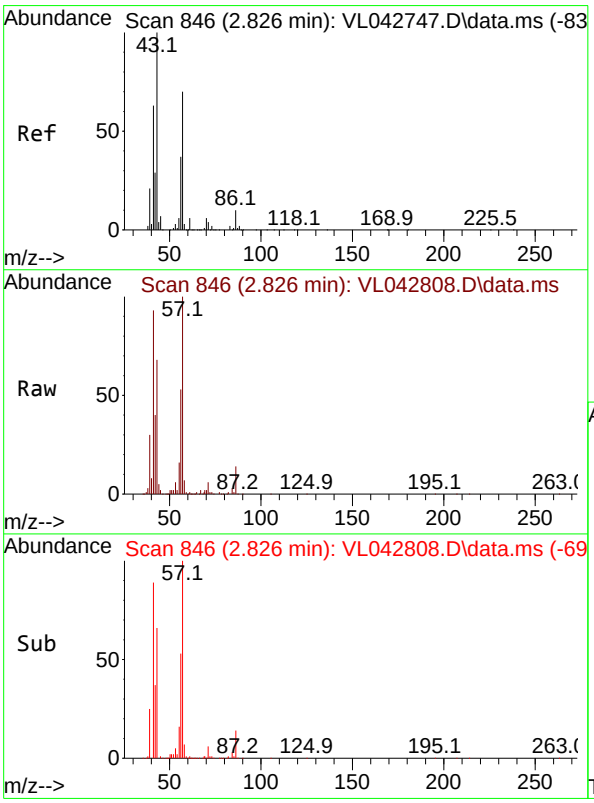
Ion	Ratio	Lower	Upper
84	100		
49	179.2	138.6	208.0
51	52.5	40.6	61.0
86	64.7	49.8	74.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations
APPROVED

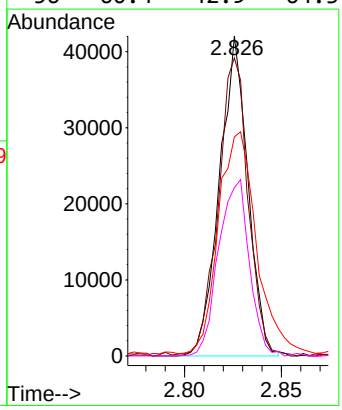
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

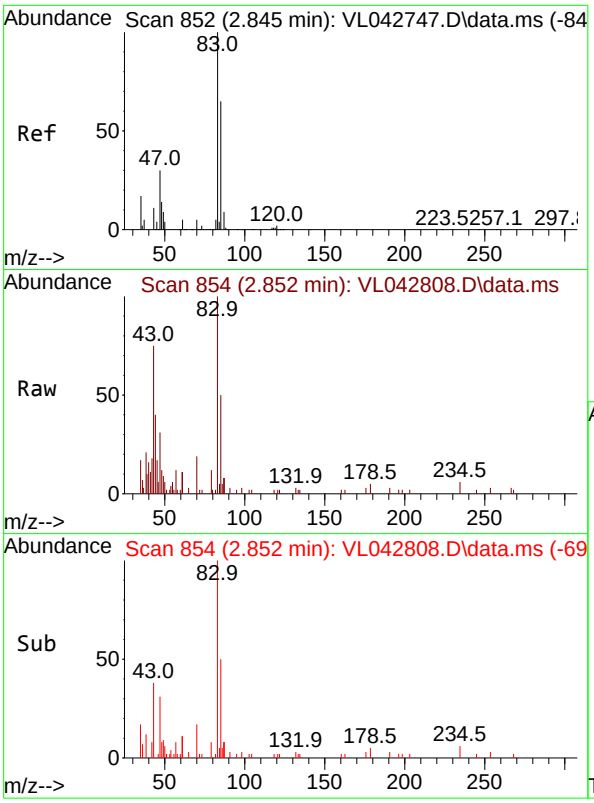


#26
Hexane
Concen: 2.101 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 57 Resp: 42822

Ion	Ratio	Lower	Upper
57	100		
41	100.2	75.4	113.2
43	96.8	185.0	277.6#
56	60.4	42.9	64.3

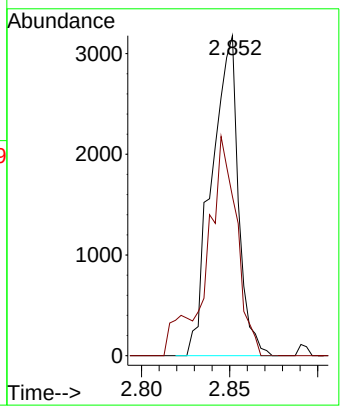




#29
Chloroform
Concen: 0.106 ppbv m
RT: 2.852 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 83 Resp: 335

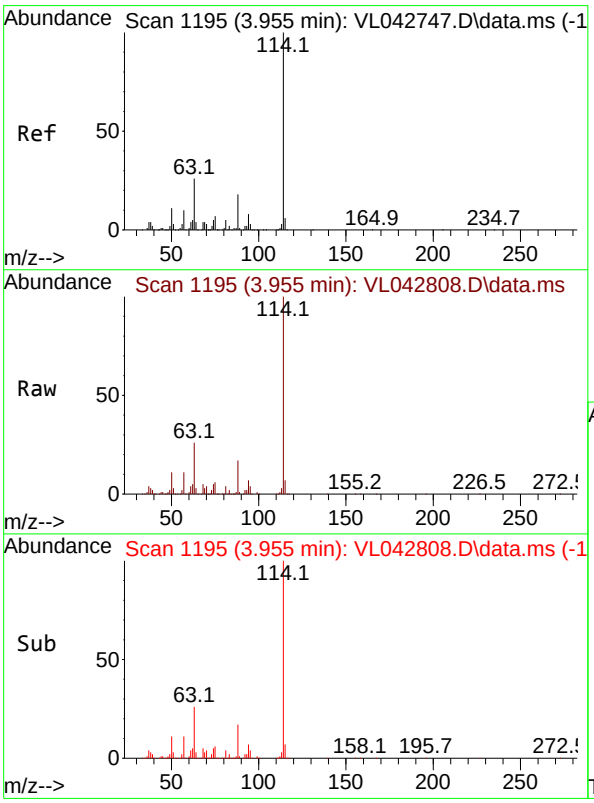
Ion	Ratio	Lower	Upper
83	100		
85	49.7	52.2	78.2



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations
APPROVED

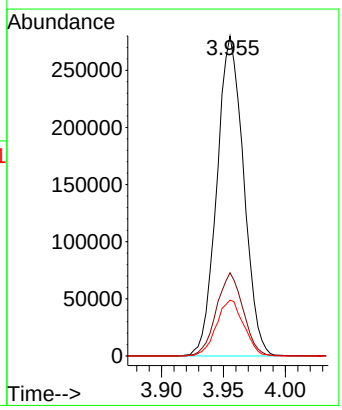
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

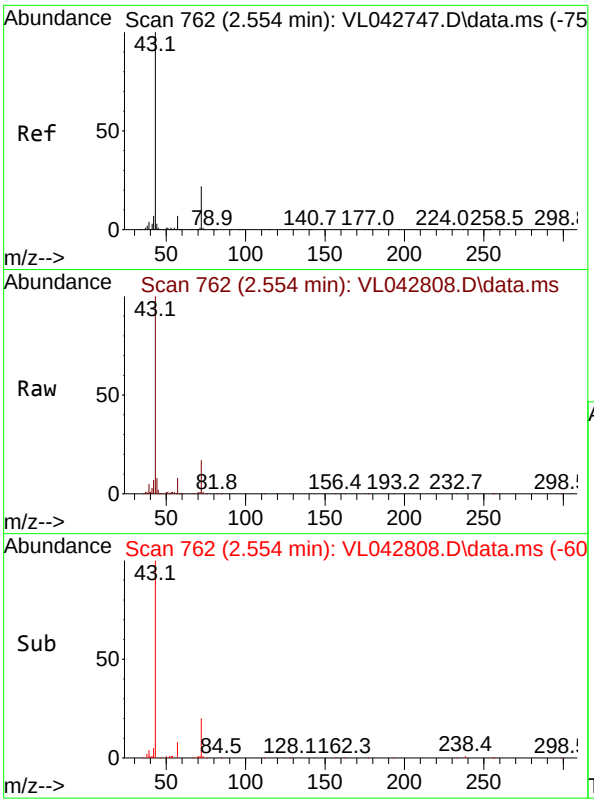


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion:114 Resp: 420636

Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.5	30.7
88	17.9	14.0	21.0

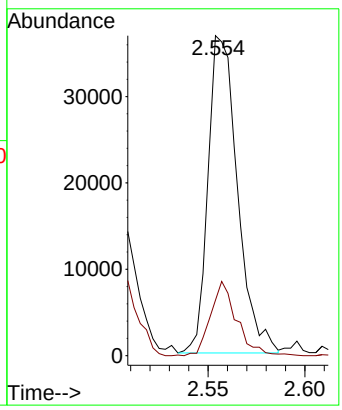




#34
2-Butanone
Concen: 1.303 ppbv
RT: 2.554 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 43 Resp: 3882

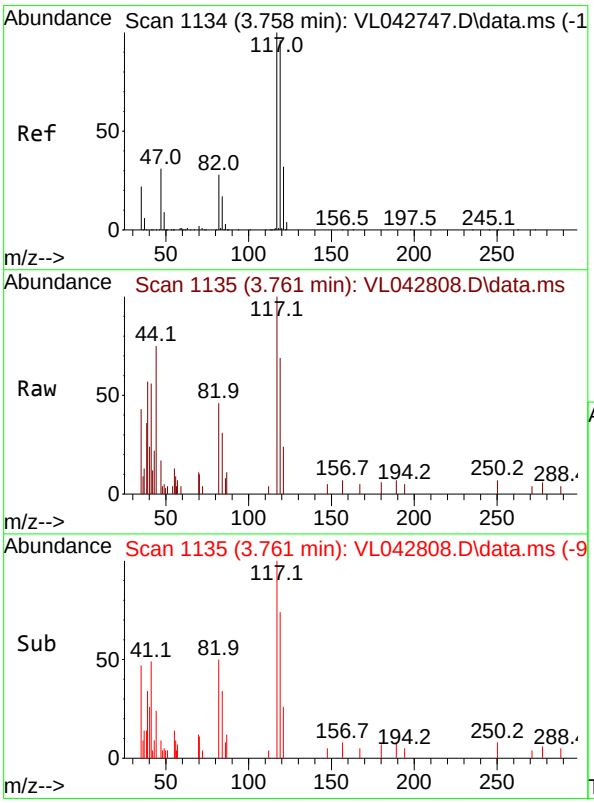
Ion	Ratio	Lower	Upper
43	100		
72	21.0	17.4	26.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations
APPROVED

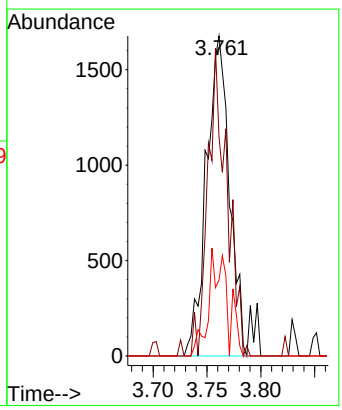
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

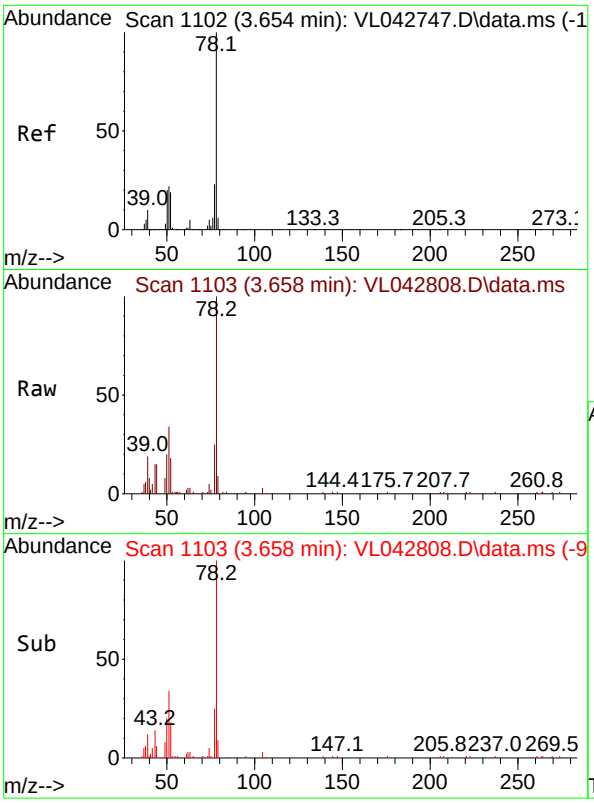


#35
Carbon Tetrachloride
Concen: 0.084 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion:117 Resp: 2615

Ion	Ratio	Lower	Upper
117	100		
119	68.6	77.1	115.7#
121	23.7	25.5	38.3#

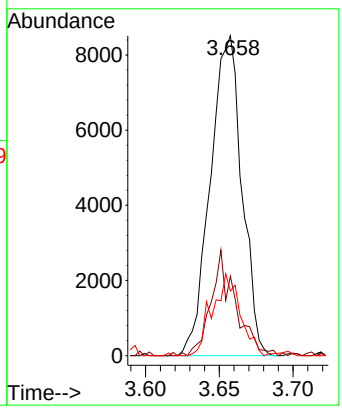




#36
Benzene
Concen: 0.319 ppbv
RT: 3.658 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 78 Resp: 1270

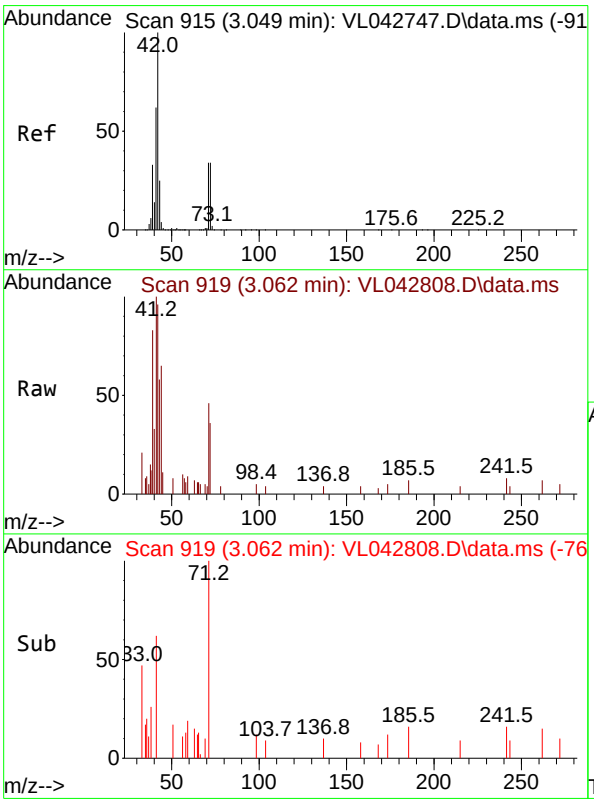
Ion	Ratio	Lower	Upper
78	100		
77	24.9	18.5	27.7
50	20.2	16.2	24.2



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations
APPROVED

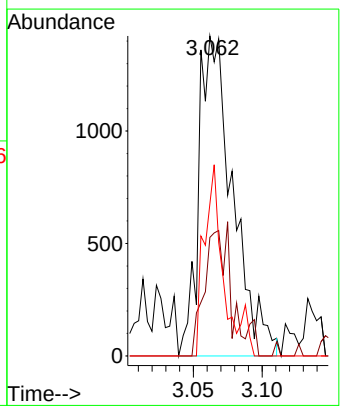
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

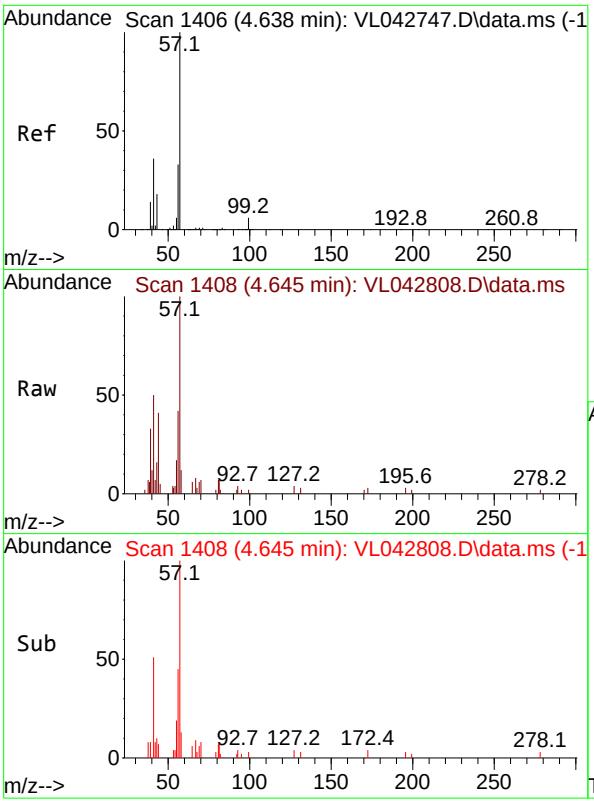


#41
Tetrahydrofuran
Concen: 0.162 ppbv m
RT: 3.062 min Scan# 919
Delta R.T. 0.013 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 42 Resp: 2451

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	0.0	28.6	43.0#

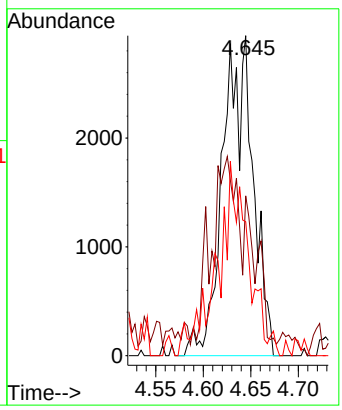




#44
2,2,4-Trimethylpentane
Concen: 0.100 ppbv m
RT: 4.645 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 57 Resp: 649

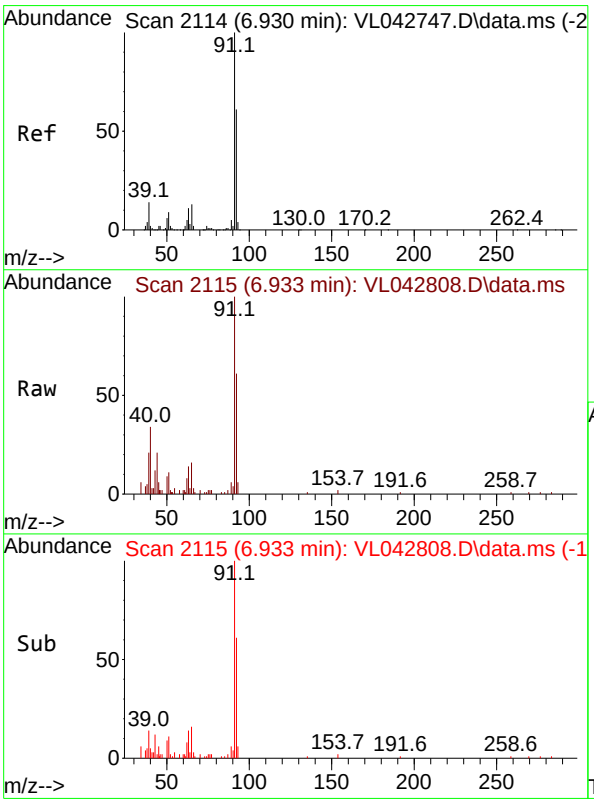
Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.3	42.5#
56	0.0	25.8	38.6#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations
APPROVED

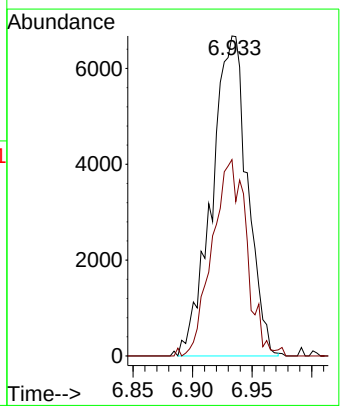
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

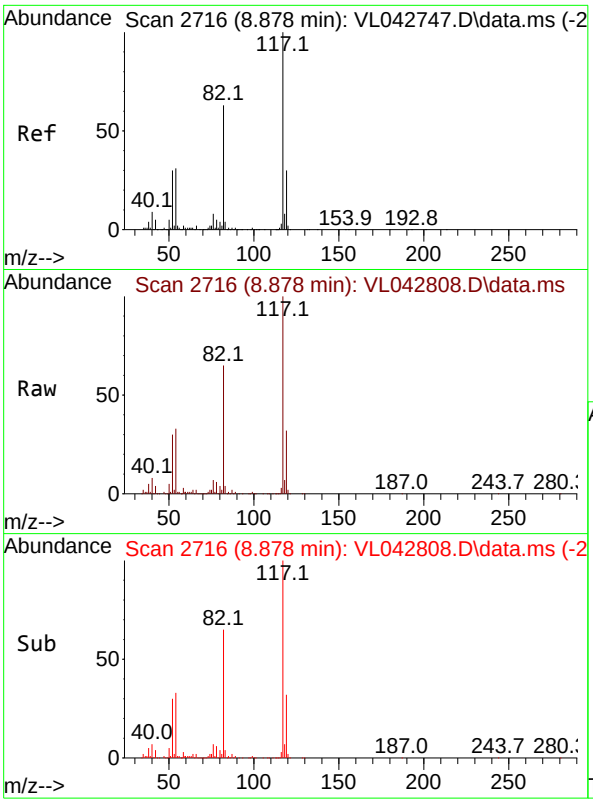


#53
Toluene
Concen: 0.325 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 91 Resp: 13897

Ion	Ratio	Lower	Upper
91	100		
92	59.5	48.0	72.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

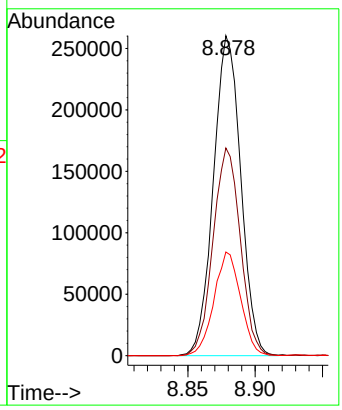
Tgt Ion:117 Resp: 36759

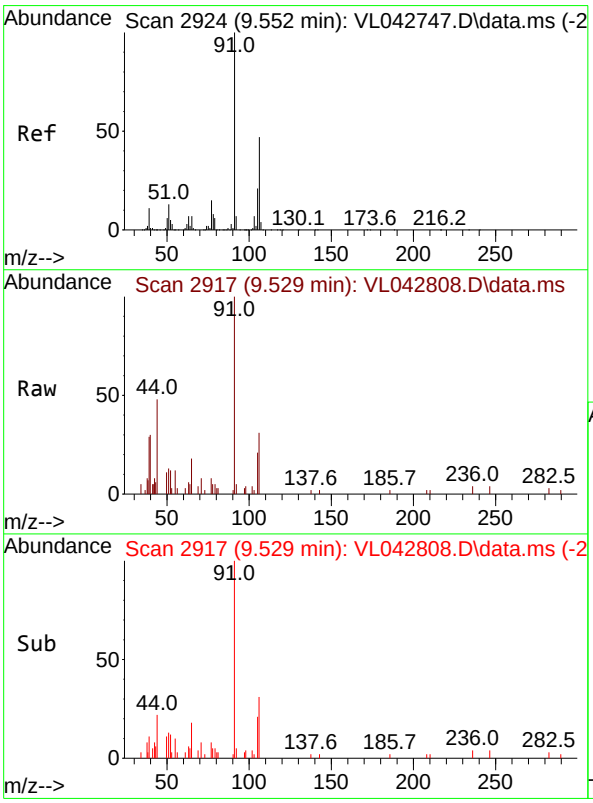
Ion	Ratio	Lower	Upper
117	100		
82	64.9	53.3	79.9
119	31.6	25.8	38.6

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

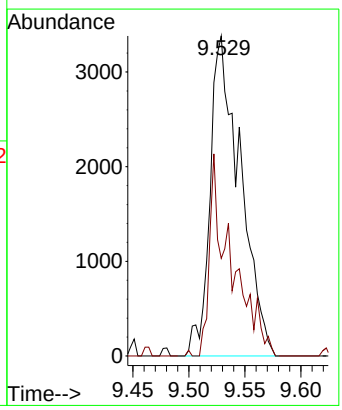


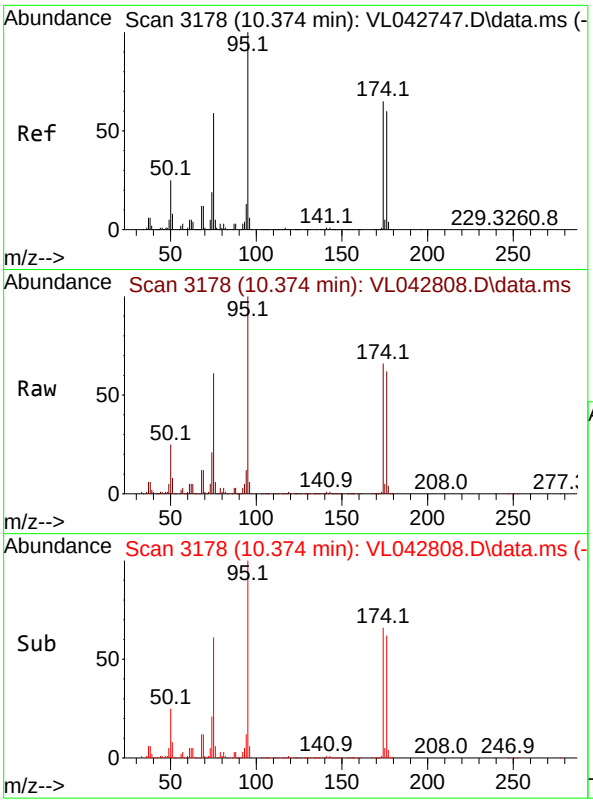


#59
m/p-Xylene
Concen: 0.137 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 91 Resp: 6348

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.094 ppbv
RT: 10.374 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

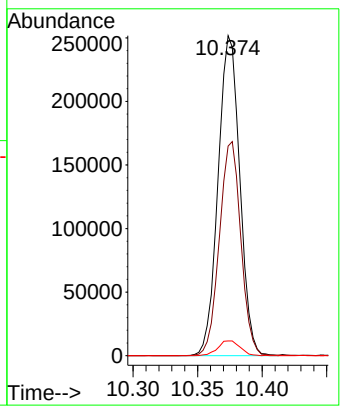
Tgt Ion: 95 Resp: 29384

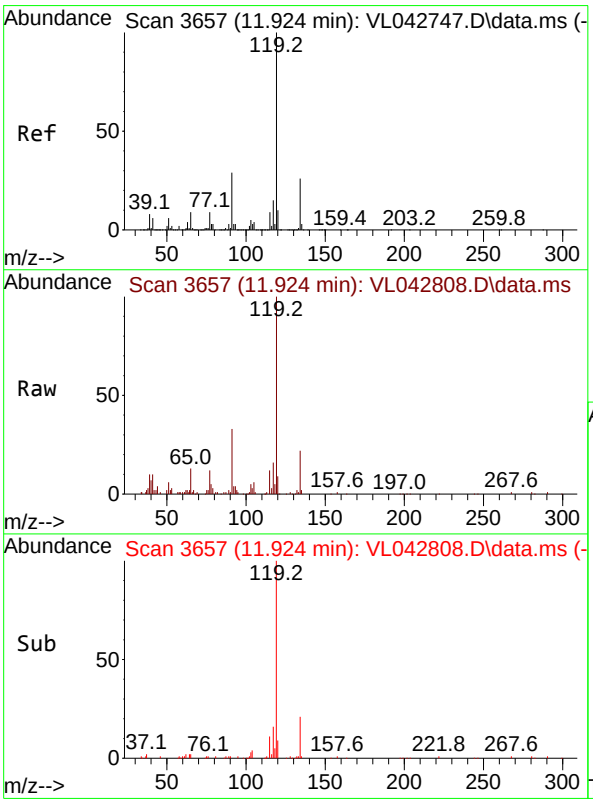
Ion	Ratio	Lower	Upper
95	100		
174	66.2	53.8	80.6
175	4.8	4.0	6.0

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

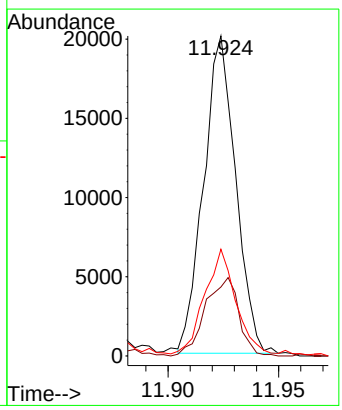


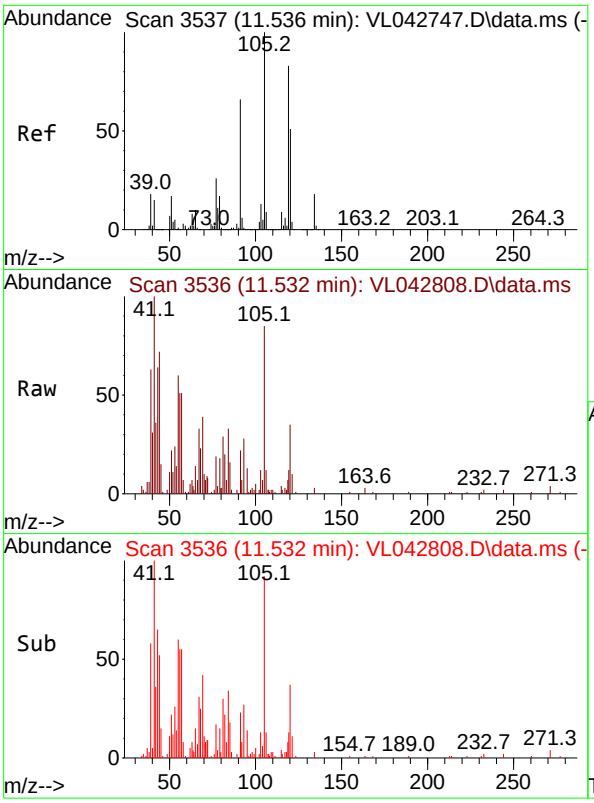


#69
p-Isopropyltoluene
Concen: 0.286 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion:119 Resp: 20163

Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.6	31.0
91	33.0	23.2	34.8

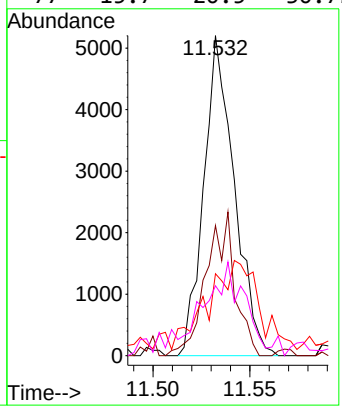




#74
1,2,4-Trimethylbenzene
Concen: 0.115 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion:105 Resp: 570

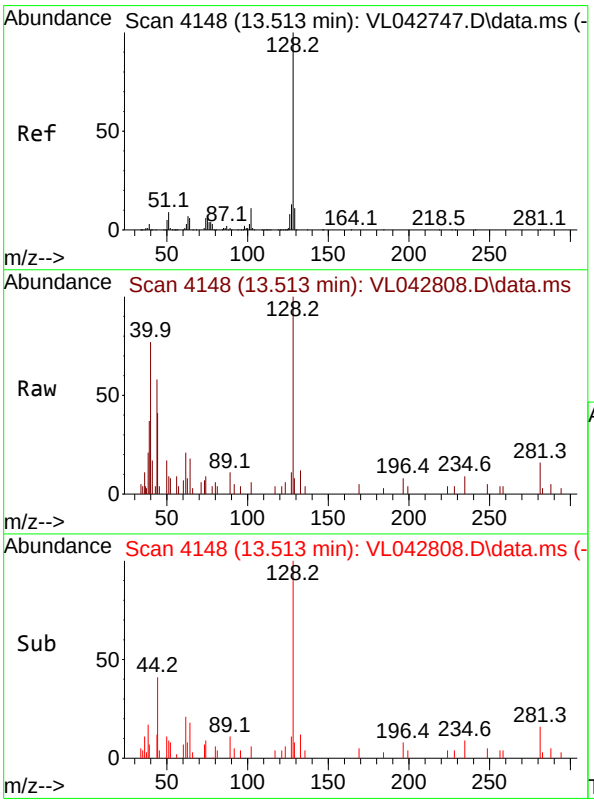
Ion	Ratio	Lower	Upper
105	100		
120	39.2	40.8	61.2#
91	19.0	53.0	79.4#
77	15.7	20.5	30.7#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Manual Integrations
APPROVED

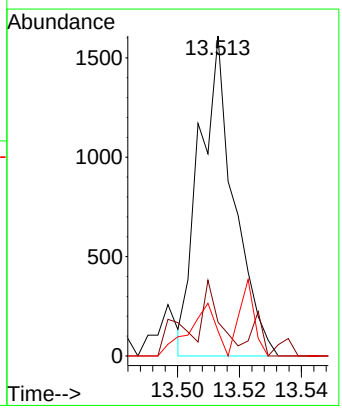
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#79
Naphthalene
Concen: 0.457 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion:128 Resp: 1257

Ion	Ratio	Lower	Upper
128	100		
127	7.0	10.5	15.7#
129	7.8	8.6	13.0#



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042808.D
Acq On : 04 Aug 2025 16:51
Operator : SY/MD
Sample : Q2750-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042808.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.424	410	413	416	rBV	4842127	4217022	48.49%	12.347%
2	1.437	416	417	424	rVV	4332291	1667349	19.17%	4.882%
3	1.473	424	428	430	rVV	642351	373233	4.29%	1.093%
4	1.486	430	432	436	rVB	8619881	4382762	50.40%	12.833%
5	1.560	451	455	459	rVB	12680515	8696341	100.00%	25.463%
6	1.622	470	474	478	rVB	604599	312782	3.60%	0.916%
7	1.722	500	505	517	rBV	1985743	1283707	14.76%	3.759%
8	1.832	535	539	549	rVB	694253	510756	5.87%	1.495%
9	1.887	550	556	568	rBV	7553541	6231055	71.65%	18.245%
10	1.962	574	579	584	rBV	181451	127763	1.47%	0.374%
11	2.787	825	834	840	rBV	561360	586102	6.74%	1.716%
12	2.826	840	846	858	rVB2	197129	237458	2.73%	0.695%
13	3.955	1182	1195	1214	rBV	730213	1125977	12.95%	3.297%
14	4.250	1276	1286	1298	rBV3	71979	133513	1.54%	0.391%
15	7.687	2334	2348	2361	rBV3	116624	204660	2.35%	0.599%
16	8.878	2705	2716	2728	rBV	918953	1319913	15.18%	3.865%
17	9.975	3047	3055	3068	rVB4	98248	132638	1.53%	0.388%
18	10.374	3163	3178	3189	rBV	1229264	1458535	16.77%	4.271%
19	11.425	3494	3503	3511	rVB3	138234	162699	1.87%	0.476%
20	11.519	3521	3532	3547	rBV6	133522	210239	2.42%	0.616%
21	11.849	3624	3634	3642	rBV2	252956	282916	3.25%	0.828%
22	12.040	3685	3693	3703	rBV2	179675	189080	2.17%	0.554%
23	12.668	3877	3887	3907	rBV2	269700	306558	3.53%	0.898%

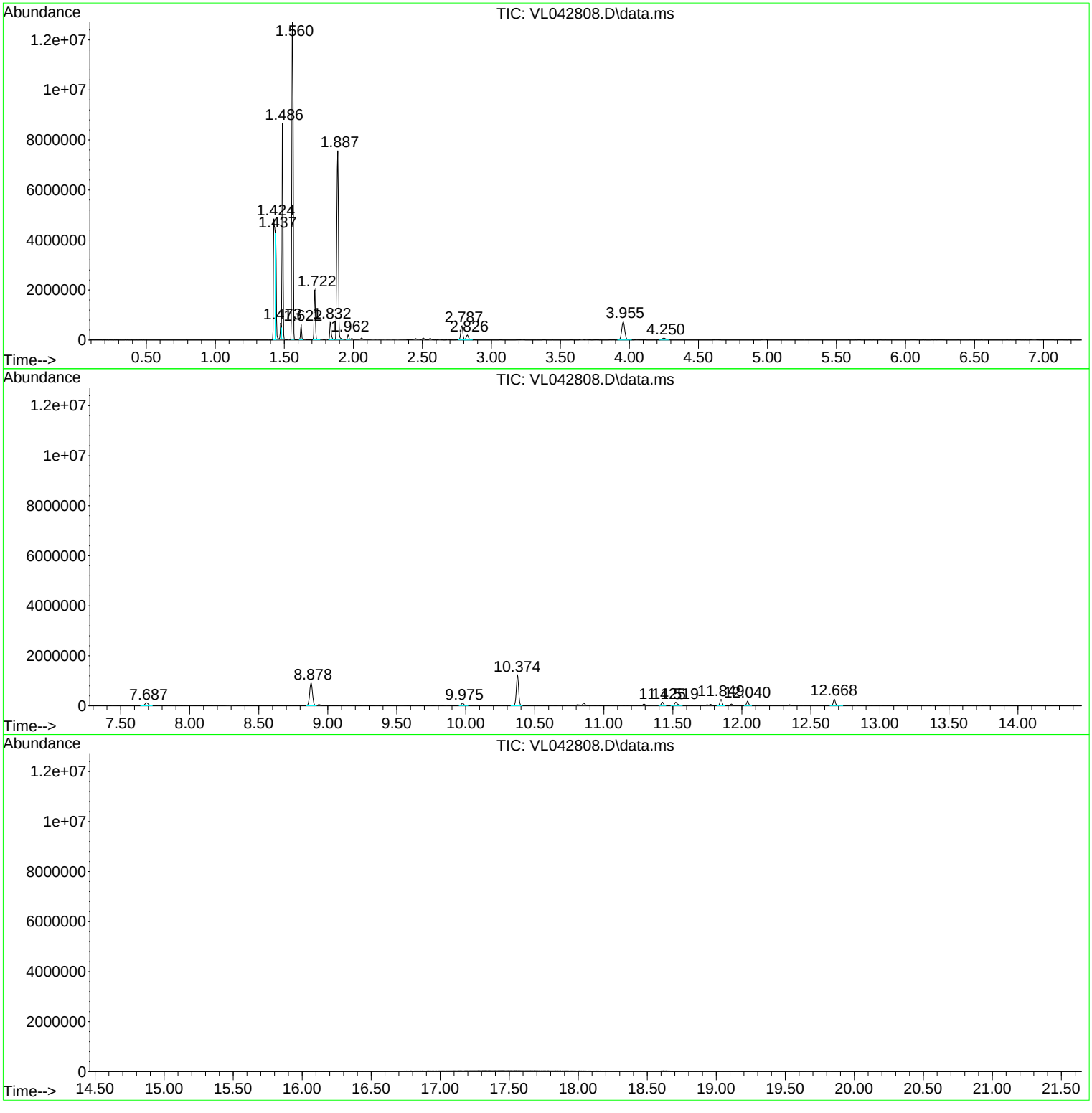
Sum of corrected areas: 34153058

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042808.D
Acq On : 04 Aug 2025 16:51
Operator : SY/MD
Sample : Q2750-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library :
TIC Integration Parameters: RTEINT.P



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042808.D
Acq On : 04 Aug 2025 16:51
Operator : SY/MD
Sample : Q2750-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library :
TIC Integration Parameters: RTEINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042808.D
Acq On : 04 Aug 2025 16:51
Operator : SY/MD
Sample : Q2750-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library :
TIC Integration Parameters: RTEINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-11	SDG No.:	Q2750
Lab Sample ID:	Q2750-10	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042809.D	1		08/04/25 17:26	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	2.47		0.54	2.47	ug/m3
74-87-3	Chloromethane	0.55	1.14		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.33	0.97	J	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.26	1.46	J	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.37	1.12	J	0.49	1.52	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	31.3	74.3	E	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	1.00	3.11		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	1.40	4.86		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.57	1.68		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.18	0.88	J	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.24	0.77	J	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.62	2.34		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-11	SDG No.:	Q2750
Lab Sample ID:	Q2750-10	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042809.D	1		08/04/25 17:26	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	U	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	5.80	20.4		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			70 (65) - 130 (135)	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	151000		2.787			
540-36-3	1,4-Difluorobenzene	425000		3.959			
3114-55-4	Chlorobenzene-d5	363000		8.882			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	17.4		J		1.48	ppbv
115-07-1	Propene	3.70		J		1.49	ppbv
64-17-5	Ethanol	2100		J		1.73	ppbv

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-11	SDG No.:	Q2750
Lab Sample ID:	Q2750-10	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042809.D	1		08/04/25 17:26	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	640		J		1.91	ppbv

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\VL080425\
Data File : VL042809.D
Acq On : 04 Aug 2025 17:26
Operator : SY/MD
Sample : Q2750-10
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:09:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	150888	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	424703	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	362958	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	287056	9.987	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9872	0.495	ppbv		94
3) Chlorodifluoromethane	1.476	51	453101	17.435	ppbv		99
4) Chloromethane	1.531	50	4415	0.547	ppbv		89
9) Propene	1.489	41	34546m	3.658	ppbv		
11) Trichlorofluoromethane	1.877	101	5244	0.255	ppbv		88
13) Ethanol	1.725	45	1447704	2103.892	ppbv		95
15) Acetone	1.835	43	652938	31.338	ppbv		100
17) tert-Butyl alcohol	2.049	59	6850m	0.365	ppbv		
19) Isopropyl Alcohol	1.907	45	7110661	642.214	ppbv	#	41
20) Methylene Chloride	2.062	84	8919	1.358	ppbv		90
26) Hexane	2.826	57	117368	5.801	ppbv	#	46
27) Carbon Disulfide	2.149	76	18073	1.043	ppbv	#	66
29) Chloroform	2.848	83	5518	0.177	ppbv		100
34) 2-Butanone	2.560	43	17312	0.575	ppbv		97
35) Carbon Tetrachloride	3.758	117	2317m	0.073	ppbv		
36) Benzene	3.654	78	9665	0.240	ppbv		96
41) Tetrahydrofuran	3.068	42	4975m	0.325	ppbv		
53) Toluene	6.933	91	26702m	0.618	ppbv		
59) m/p-Xylene	9.535	91	6001m	0.131	ppbv		

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

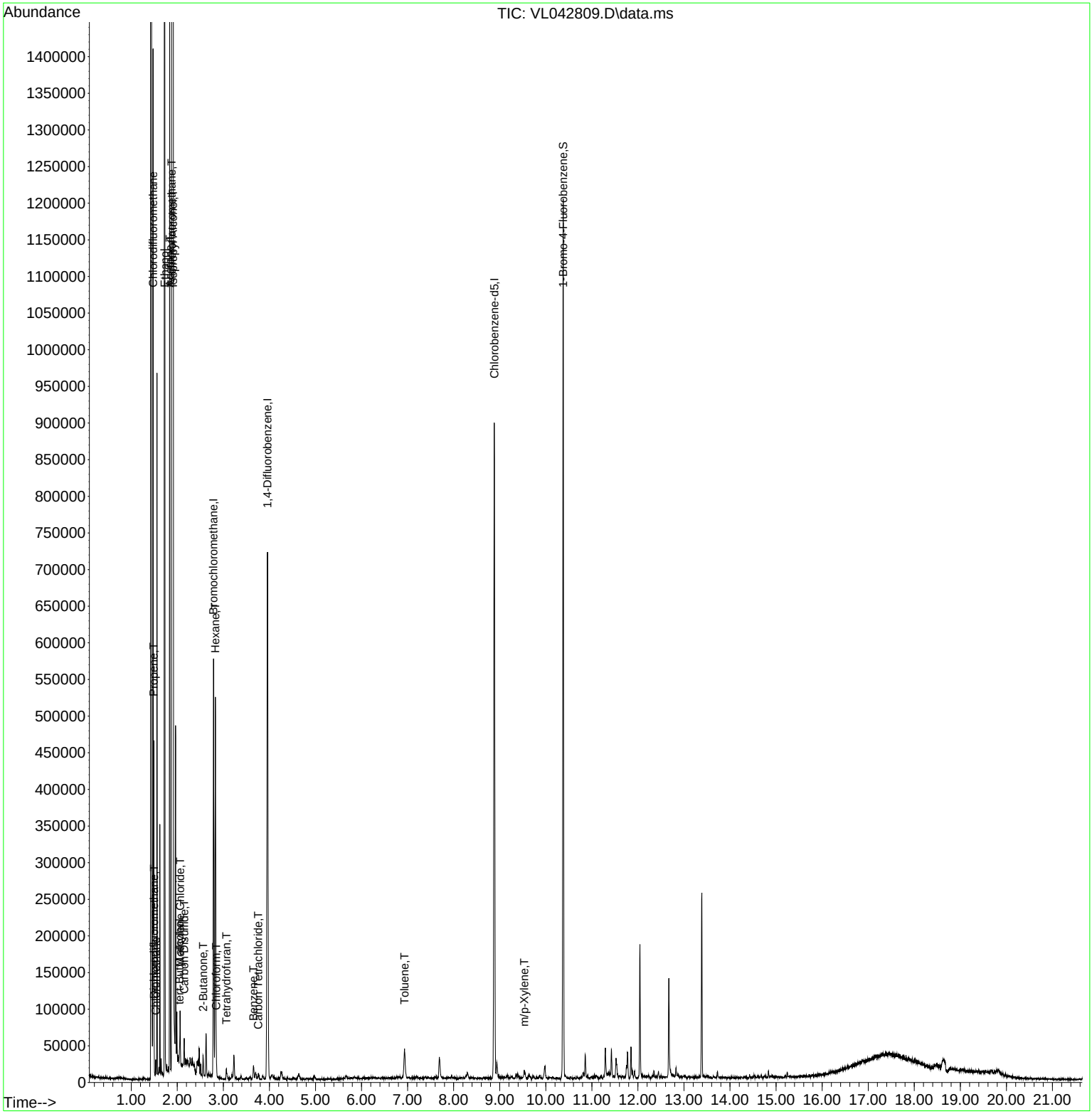
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042809.D
Acq On : 04 Aug 2025 17:26
Operator : SY/MD
Sample : Q2750-10
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

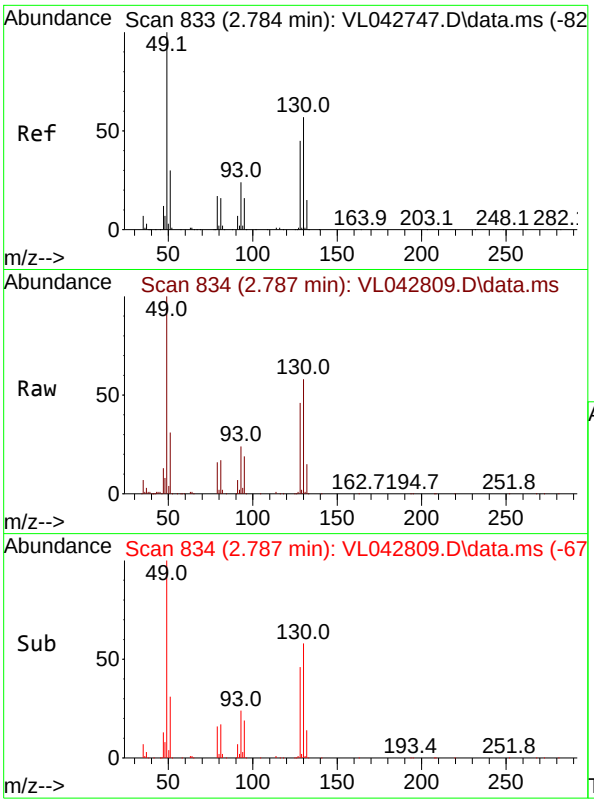
Quant Time: Aug 05 01:09:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

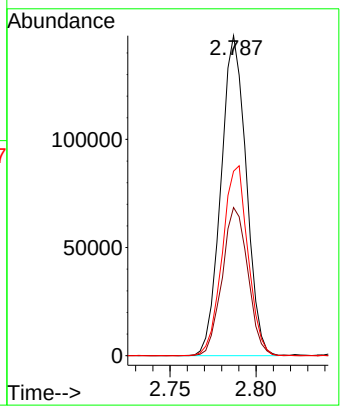




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 49 Resp: 15088

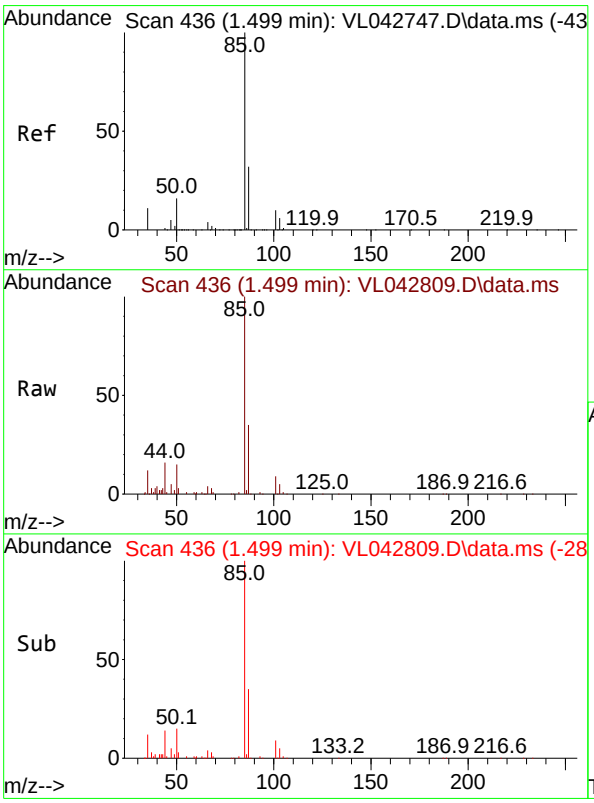
Ion	Ratio	Lower	Upper
49	100		
128	47.1	23.6	71.0
130	60.4	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations
APPROVED

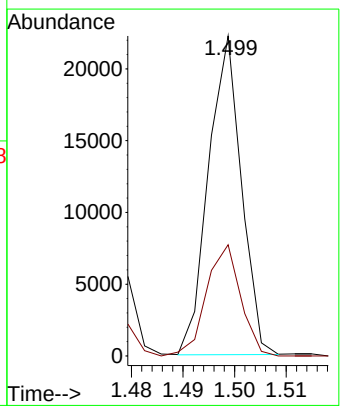
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

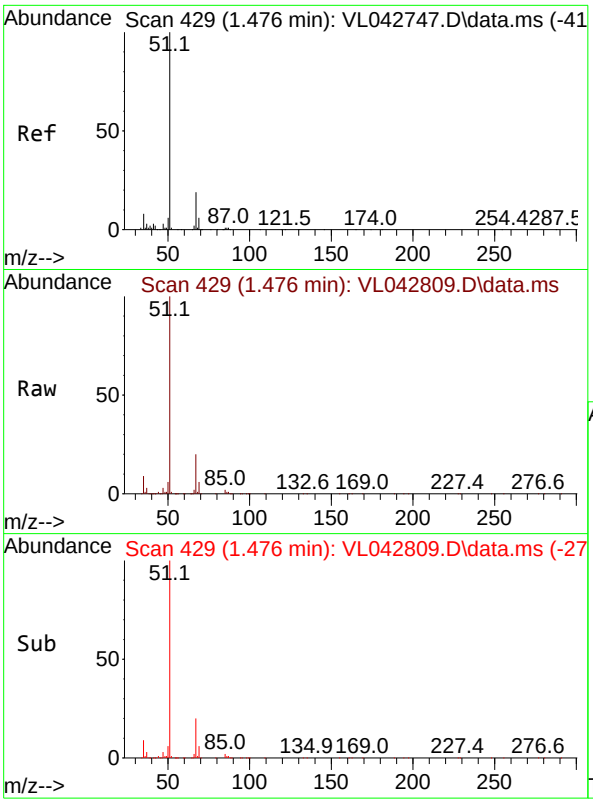


#2
Dichlorodifluoromethane
Concen: 0.495 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 85 Resp: 9872

Ion	Ratio	Lower	Upper
85	100		
87	34.9	25.4	38.2

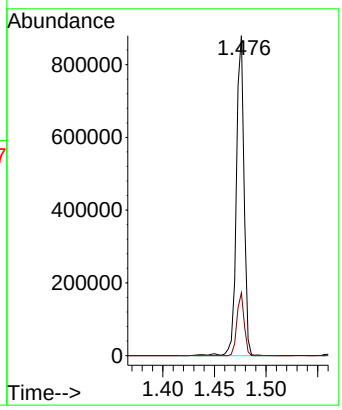




#3
Chlorodifluoromethane
Concen: 17.435 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 51 Resp: 45310

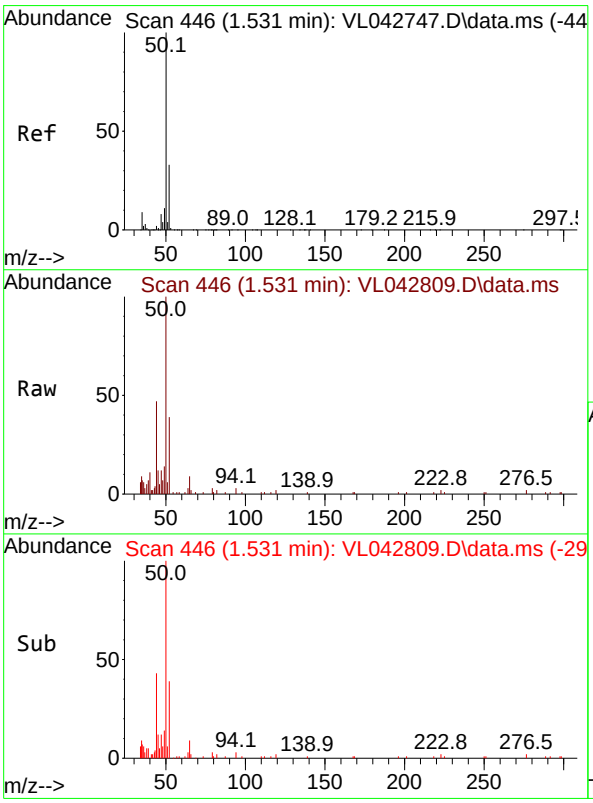
Ion	Ratio	Lower	Upper
51	100		
67	18.4	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations
APPROVED

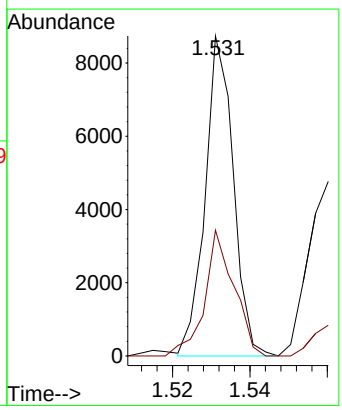
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

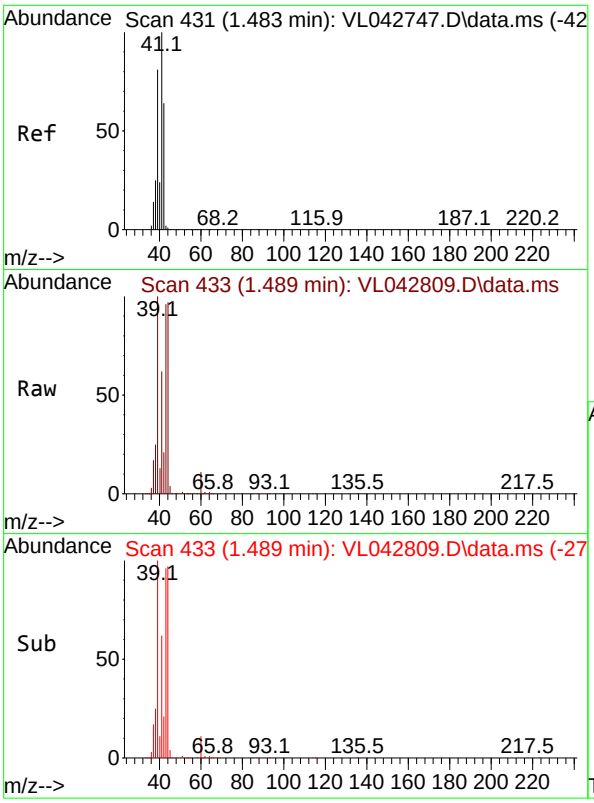


#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 50 Resp: 4415

Ion	Ratio	Lower	Upper
50	100		
52	39.6	26.6	40.0

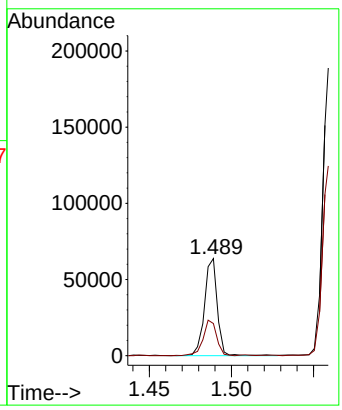




#9
Propene
Concen: 3.658 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 41 Resp: 3454

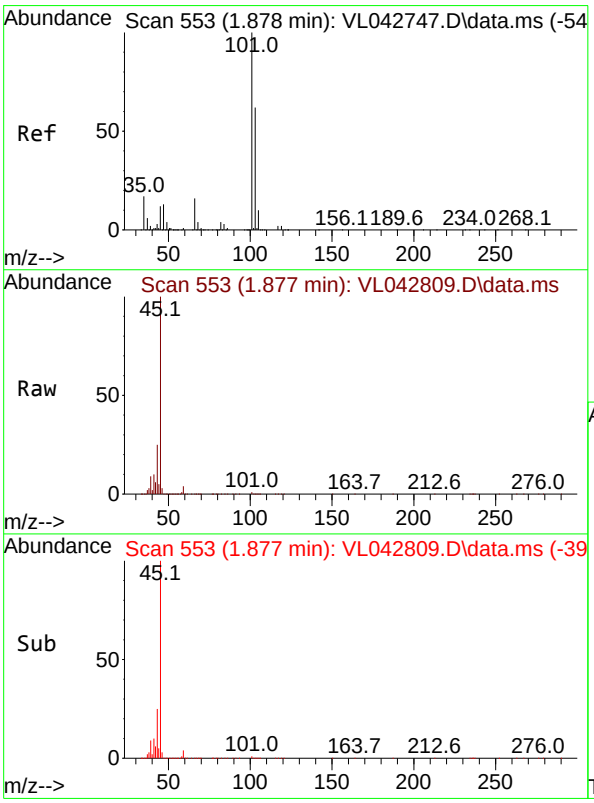
Ion	Ratio	Lower	Upper
41	100		
42	198.1	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations
APPROVED

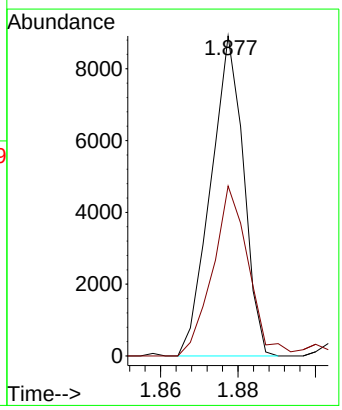
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

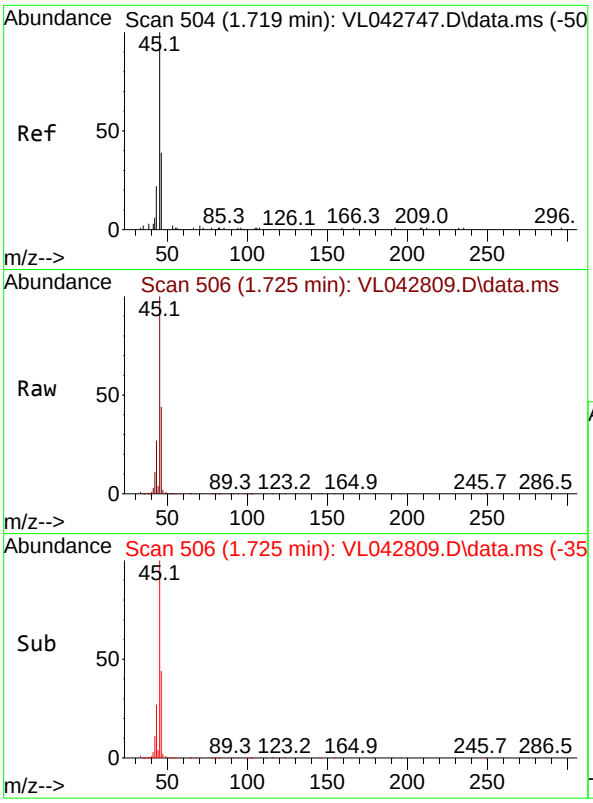


#11
Trichlorofluoromethane
Concen: 0.255 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion:101 Resp: 5244

Ion	Ratio	Lower	Upper
101	100		
103	53.1	49.6	74.4

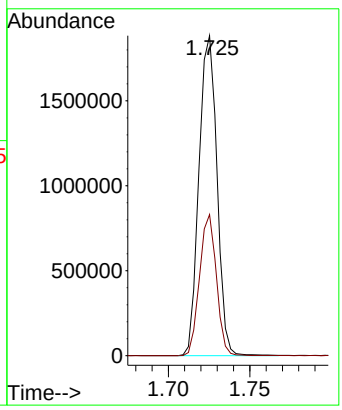




#13
Ethanol
Concen: 2103.892 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 45 Resp: 144770

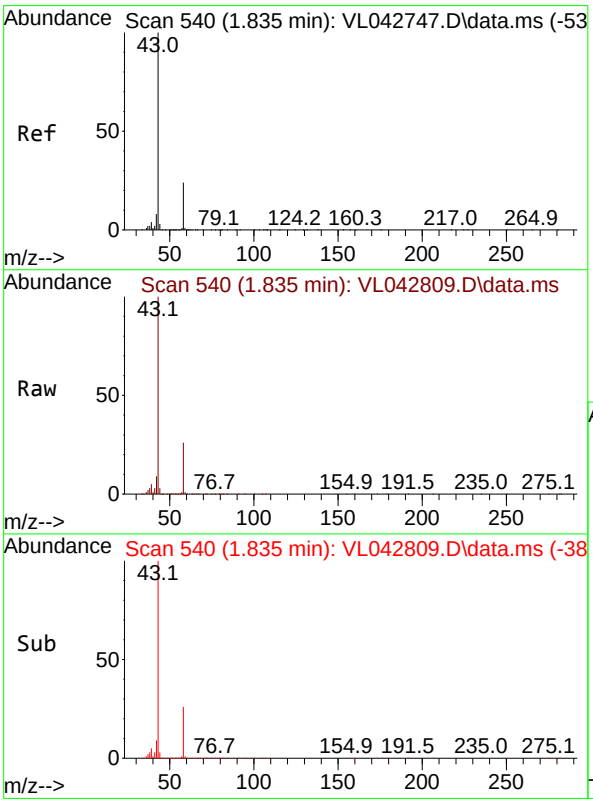
Ion	Ratio	Lower	Upper
45	100		
46	41.3	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations
APPROVED

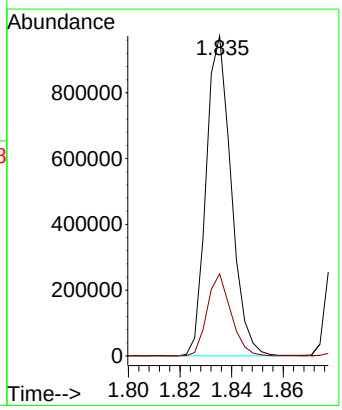
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

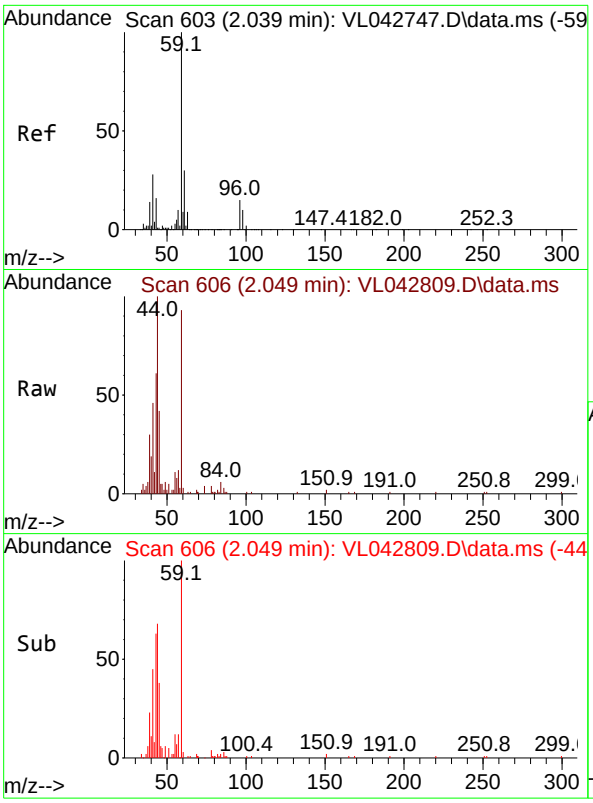


#15
Acetone
Concen: 31.338 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 43 Resp: 652938

Ion	Ratio	Lower	Upper
43	100		
58	24.6	19.8	29.8

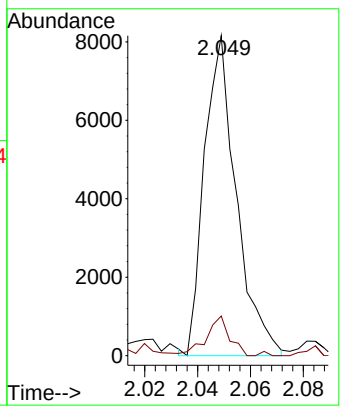




#17
tert-Butyl alcohol
Concen: 0.365 ppbv m
RT: 2.049 min Scan# 6(
Delta R.T. 0.010 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 59 Resp: 685(

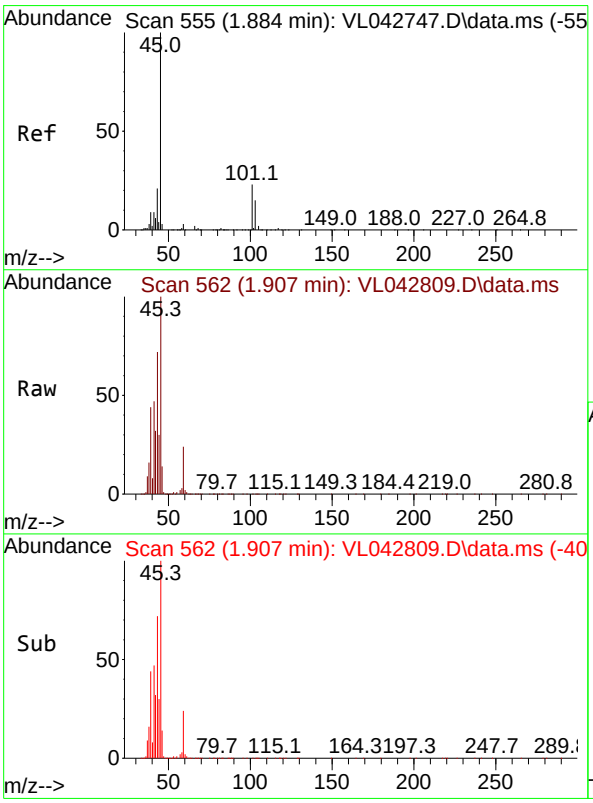
Ion	Ratio	Lower	Upper
59	100		
57	1395.8	8.3	12.5



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations
APPROVED

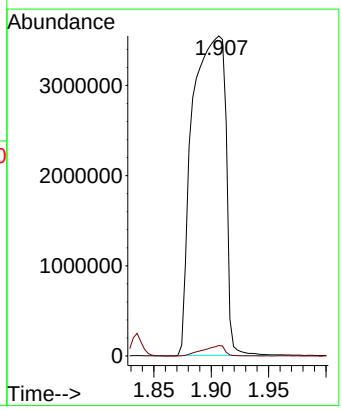
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

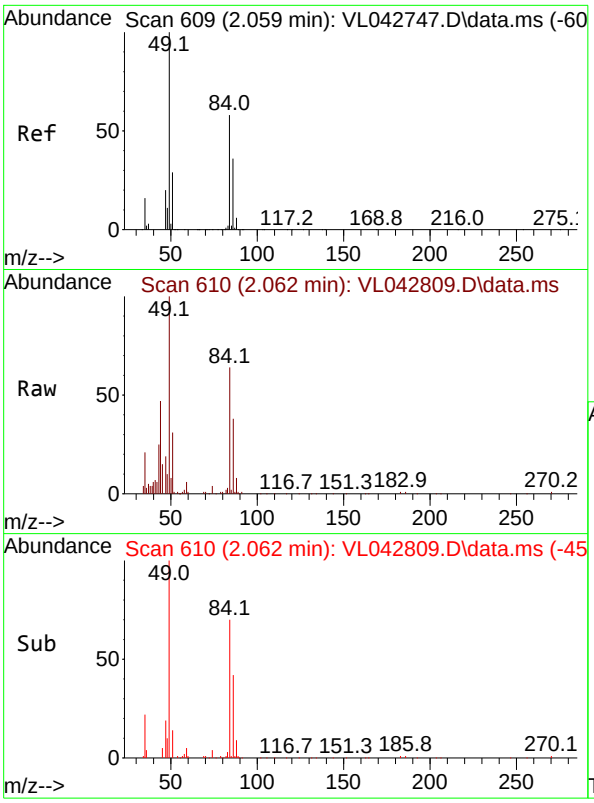


#19
Isopropyl Alcohol
Concen: 642.214 ppbv
RT: 1.907 min Scan# 562
Delta R.T. 0.023 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 45 Resp: 7110661

Ion	Ratio	Lower	Upper
45	100		
58	2.2	30.0	45.0#

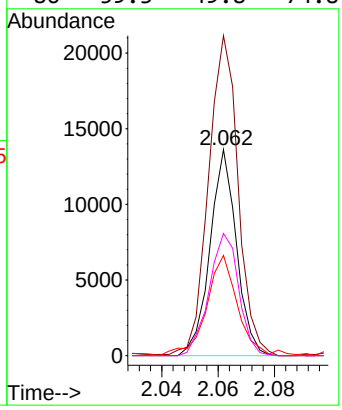




#20
Methylene Chloride
Concen: 1.358 ppbv
RT: 2.062 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 84 Resp: 891

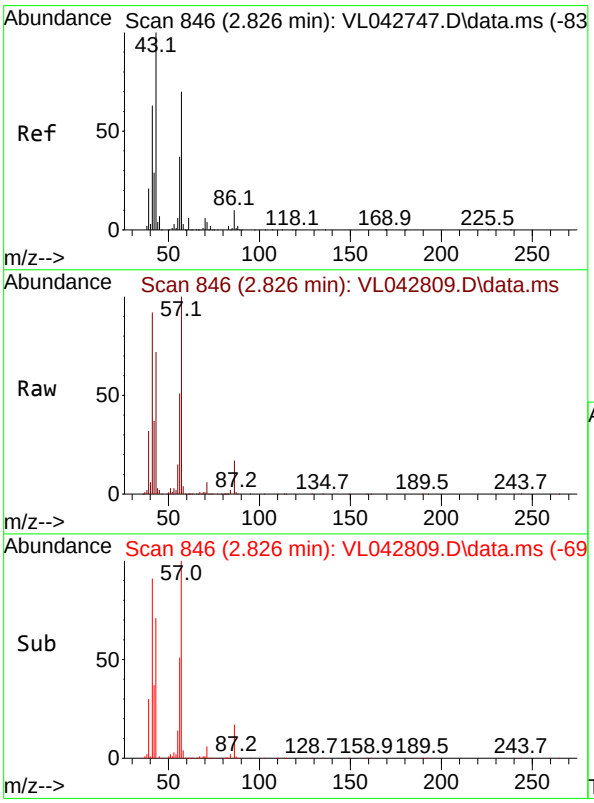
Ion	Ratio	Lower	Upper
84	100		
49	155.3	138.6	208.0
51	46.0	40.6	61.0
86	59.3	49.8	74.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations
APPROVED

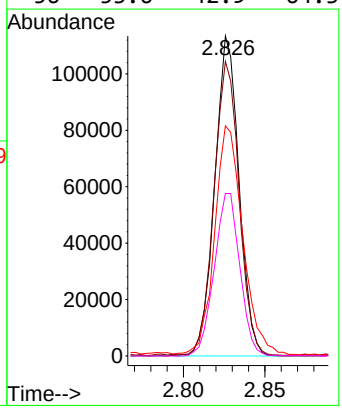
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

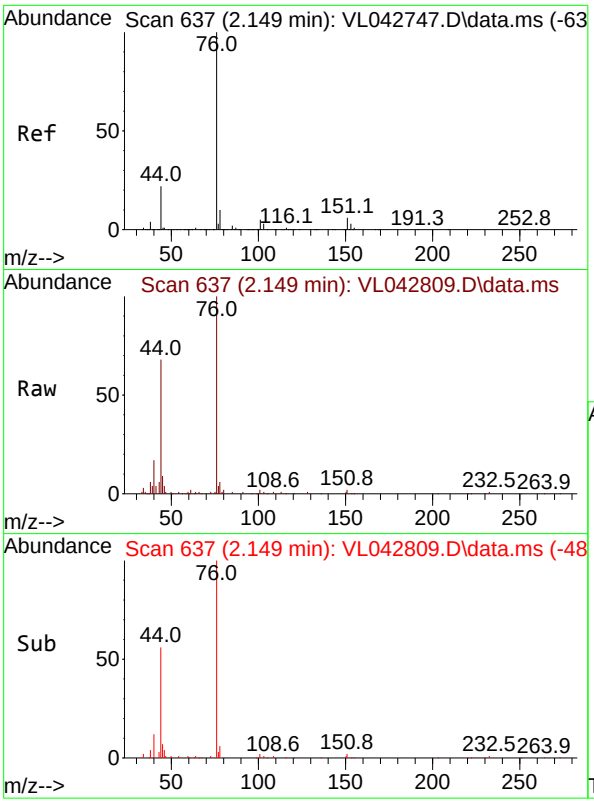


#26
Hexane
Concen: 5.801 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 57 Resp: 117368

Ion	Ratio	Lower	Upper
57	100		
41	96.2	75.4	113.2
43	84.5	185.0	277.6#
56	53.6	42.9	64.3





#27
Carbon Disulfide
Concen: 1.043 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

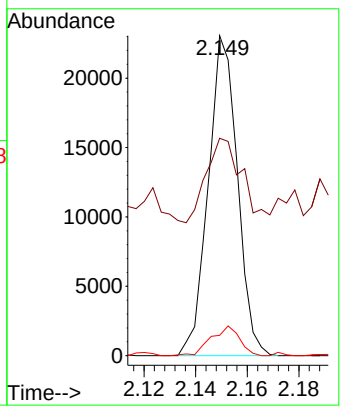
Tgt Ion: 76 Resp: 1807

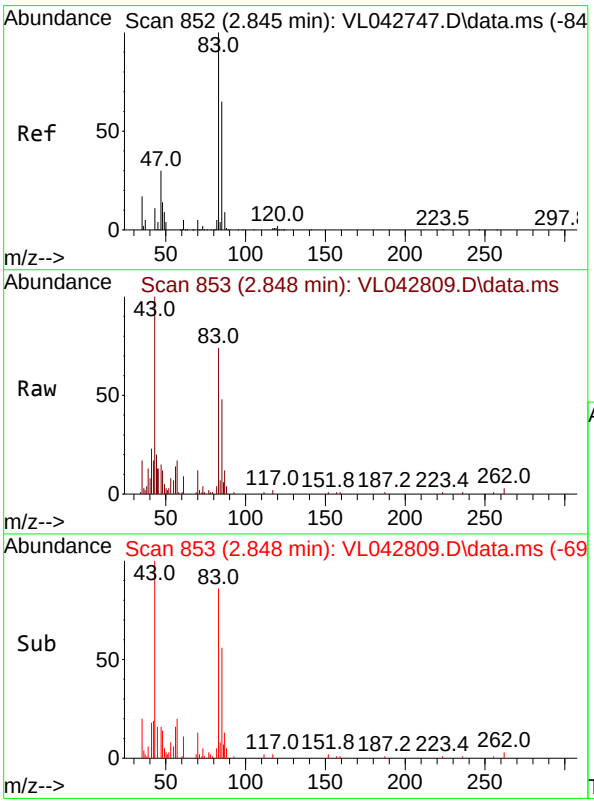
Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	10.5	9.9	14.9

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

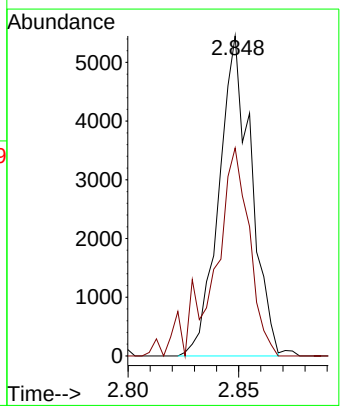


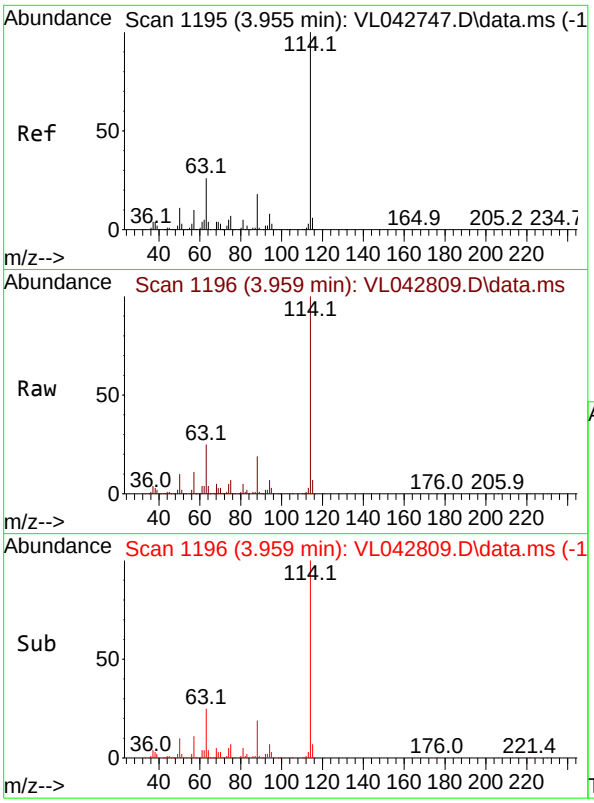


#29
Chloroform
Concen: 0.177 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 83 Resp: 5518

Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.2	78.2

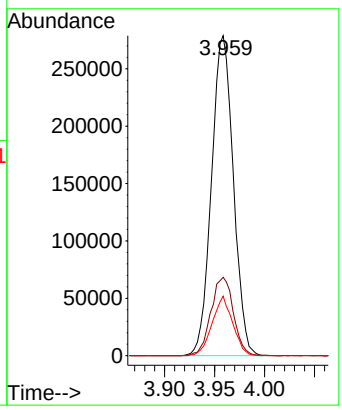




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion:114 Resp: 42470

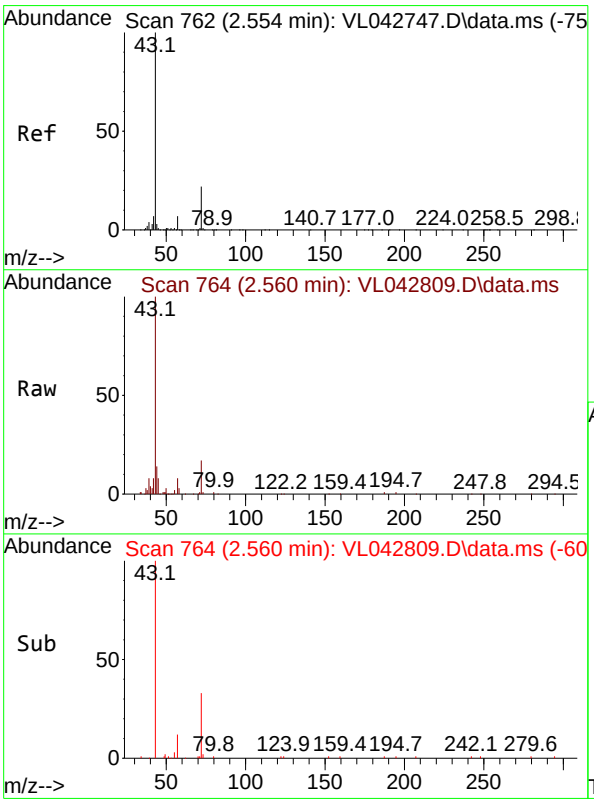
Ion	Ratio	Lower	Upper
114	100		
63	25.2	20.5	30.7
88	17.4	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations
APPROVED

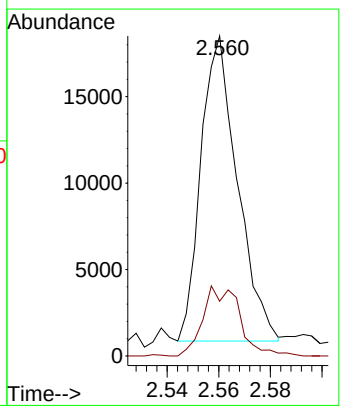
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

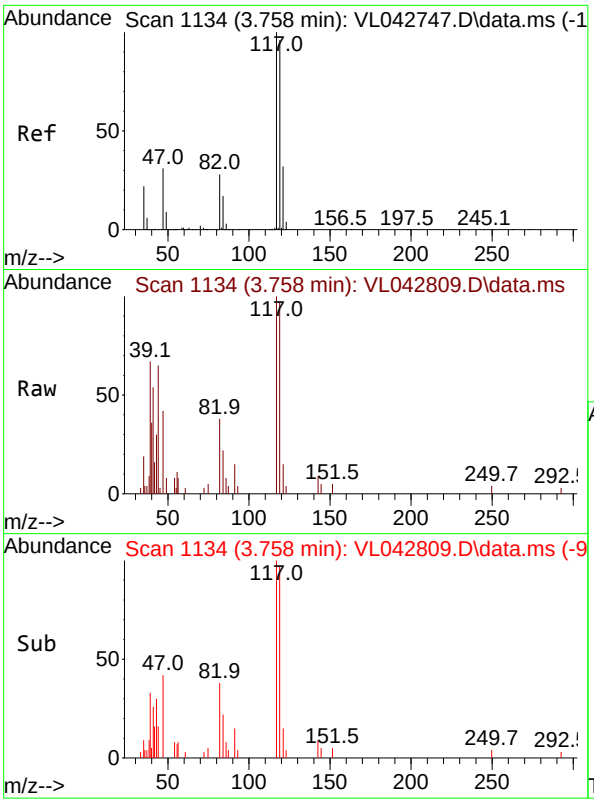


#34
2-Butanone
Concen: 0.575 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 43 Resp: 17312

Ion	Ratio	Lower	Upper
43	100		
72	23.2	17.4	26.0

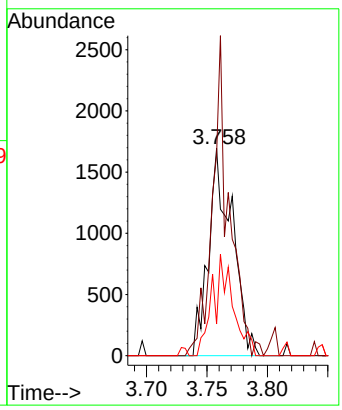




#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 3.758 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion:117 Resp: 231

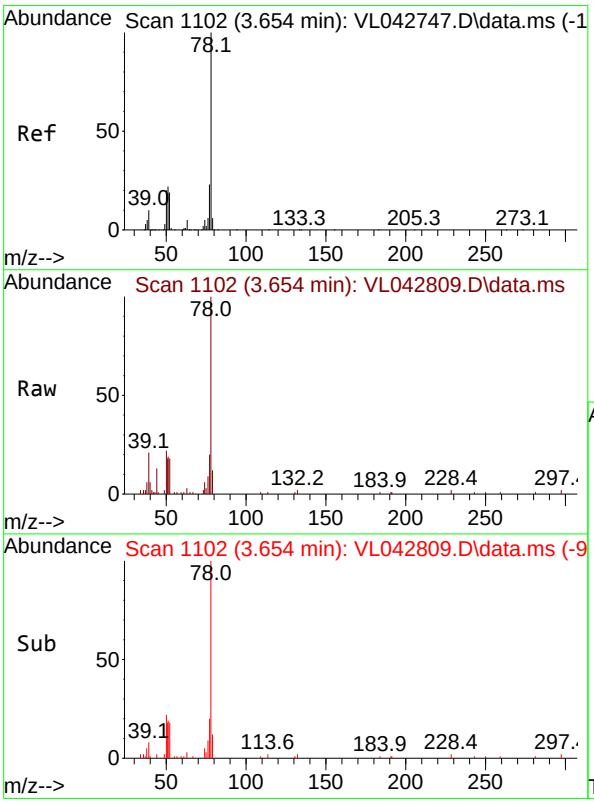
Ion	Ratio	Lower	Upper
117	100		
119	96.8	77.1	115.7
121	15.3	25.5	38.3#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations
APPROVED

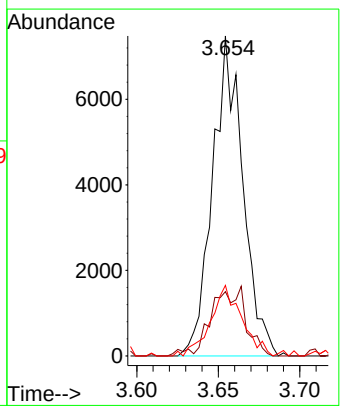
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

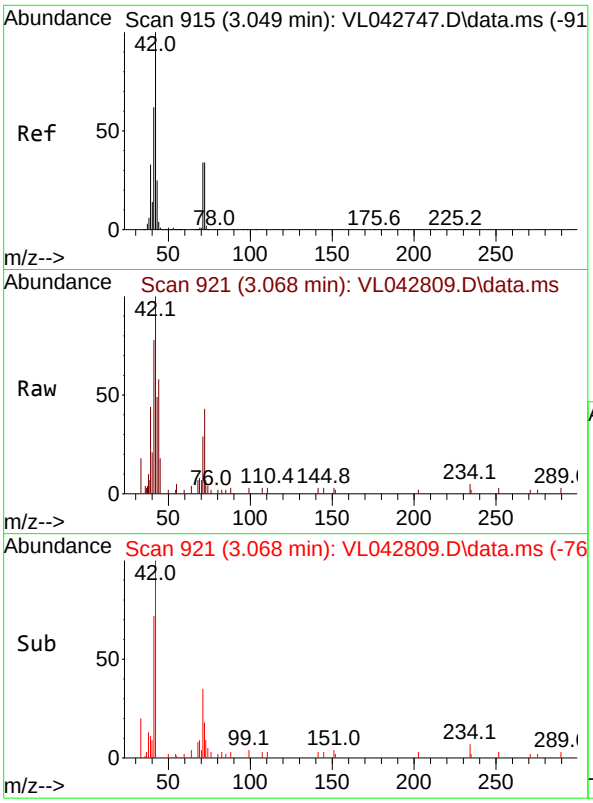


#36
Benzene
Concen: 0.240 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 78 Resp: 9665

Ion	Ratio	Lower	Upper
78	100		
77	20.1	18.5	27.7
50	21.3	16.2	24.2

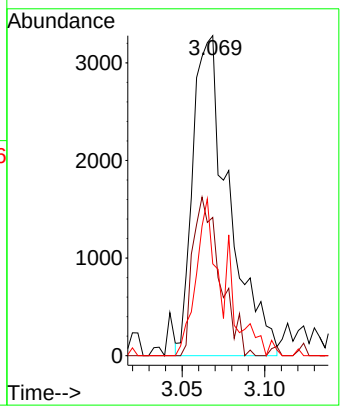




#41
Tetrahydrofuran
Concen: 0.325 ppbv m
RT: 3.068 min Scan# 9
Delta R.T. 0.019 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 42 Resp: 497

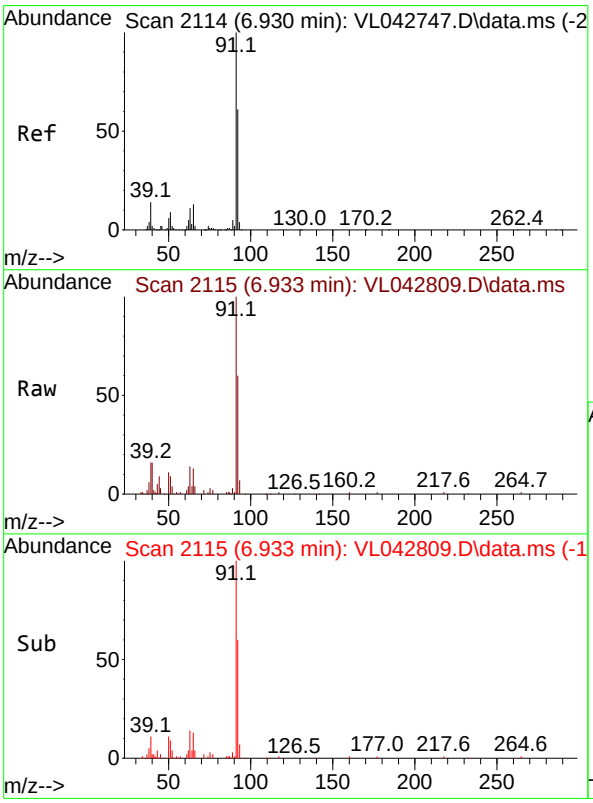
Ion	Ratio	Lower	Upper
42	100		
72	38.3	30.9	46.3
71	38.7	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations
APPROVED

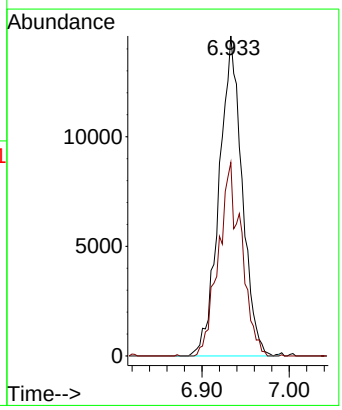
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

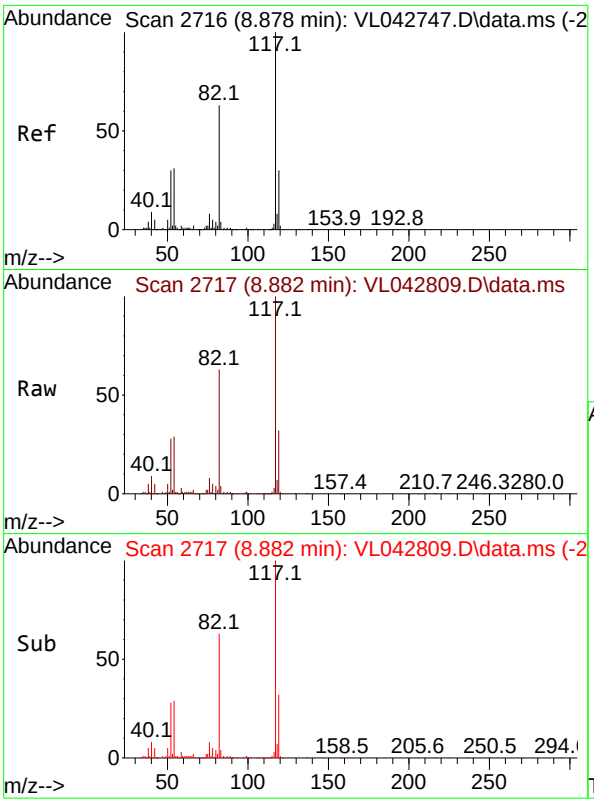


#53
Toluene
Concen: 0.618 ppbv m
RT: 6.933 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 91 Resp: 26702

Ion	Ratio	Lower	Upper
91	100		
92	60.7	48.0	72.0

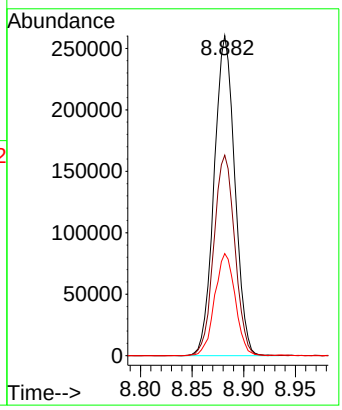




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion:117 Resp: 36295

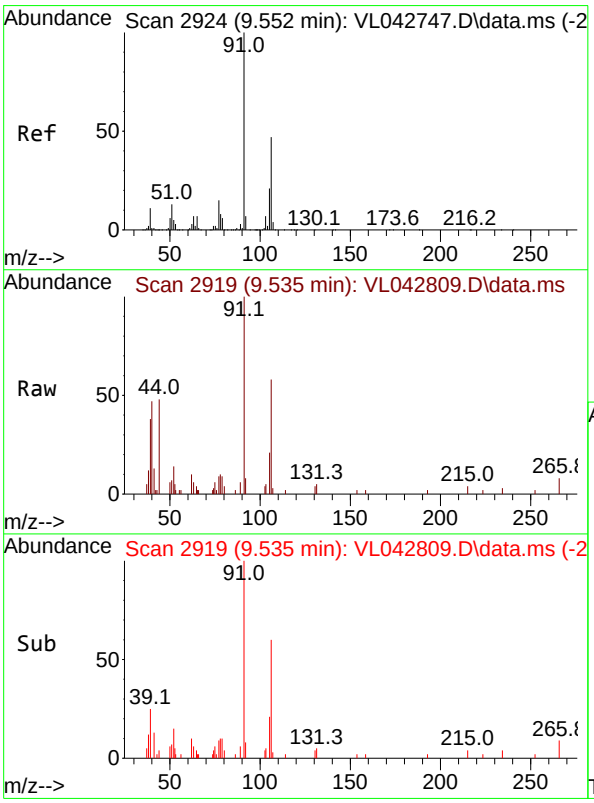
Ion	Ratio	Lower	Upper
117	100		
82	63.7	53.3	79.9
119	32.0	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations
APPROVED

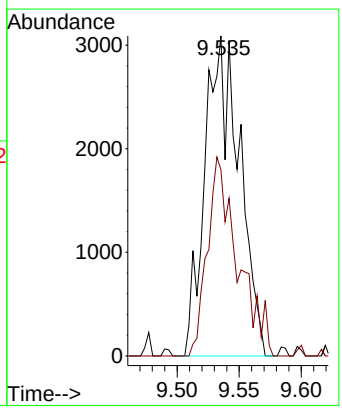
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

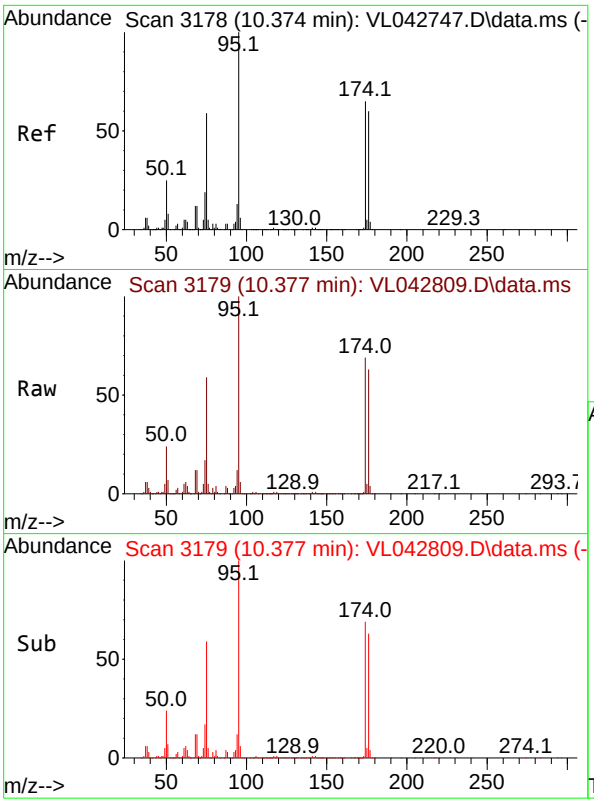


#59
m/p-Xylene
Concen: 0.131 ppbv m
RT: 9.535 min Scan# 2919
Delta R.T. -0.016 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 91 Resp: 6001

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

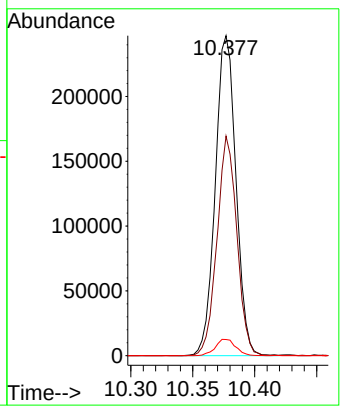




#68
1-Bromo-4-Fluorobenzene
Concen: 9.987 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 95 Resp: 28705

Ion	Ratio	Lower	Upper
95	100		
174	66.3	53.8	80.6
175	5.1	4.0	6.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042809.D
Acq On : 04 Aug 2025 17:26
Operator : SY/MD
Sample : Q2750-10
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042809.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.434	414	416	421	rVB	4958391	3416099	15.35%	9.440%
2	1.476	424	429	431	rBV	1361626	703173	3.16%	1.943%
3	1.560	451	455	459	rBV	955989	483057	2.17%	1.335%
4	1.725	500	506	518	rBV	3626779	2704670	12.15%	7.474%
5	1.835	535	540	547	rBV	1493789	1046516	4.70%	2.892%
6	1.907	550	562	566	rBV	14559823	22261468	100.00%	61.520%
7	1.962	575	579	584	rVB	447987	316140	1.42%	0.874%
8	2.787	826	834	840	rBV	569120	587414	2.64%	1.623%
9	2.826	840	846	859	rVB	518391	584977	2.63%	1.617%
10	3.959	1181	1196	1211	rBV	719358	1117565	5.02%	3.088%
11	8.882	2701	2717	2728	rBV	895196	1294891	5.82%	3.578%
12	10.377	3164	3179	3190	rBV	1200628	1405416	6.31%	3.884%
13	13.387	4100	4109	4118	rBV2	251616	264384	1.19%	0.731%

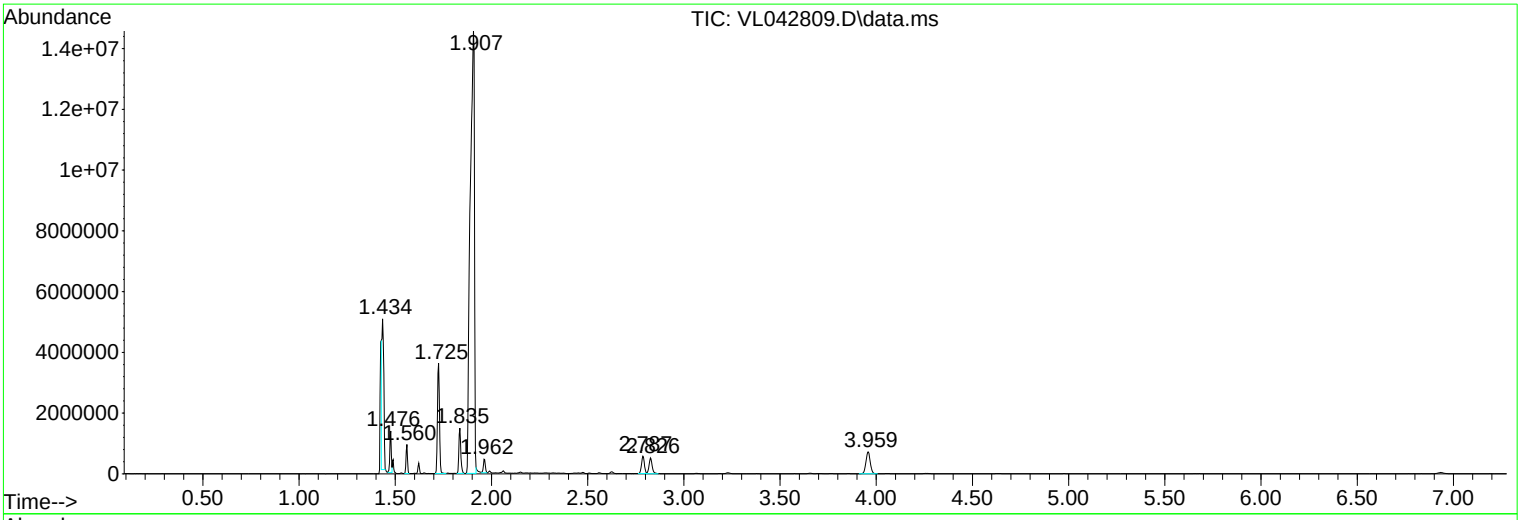
Sum of corrected areas: 36185770

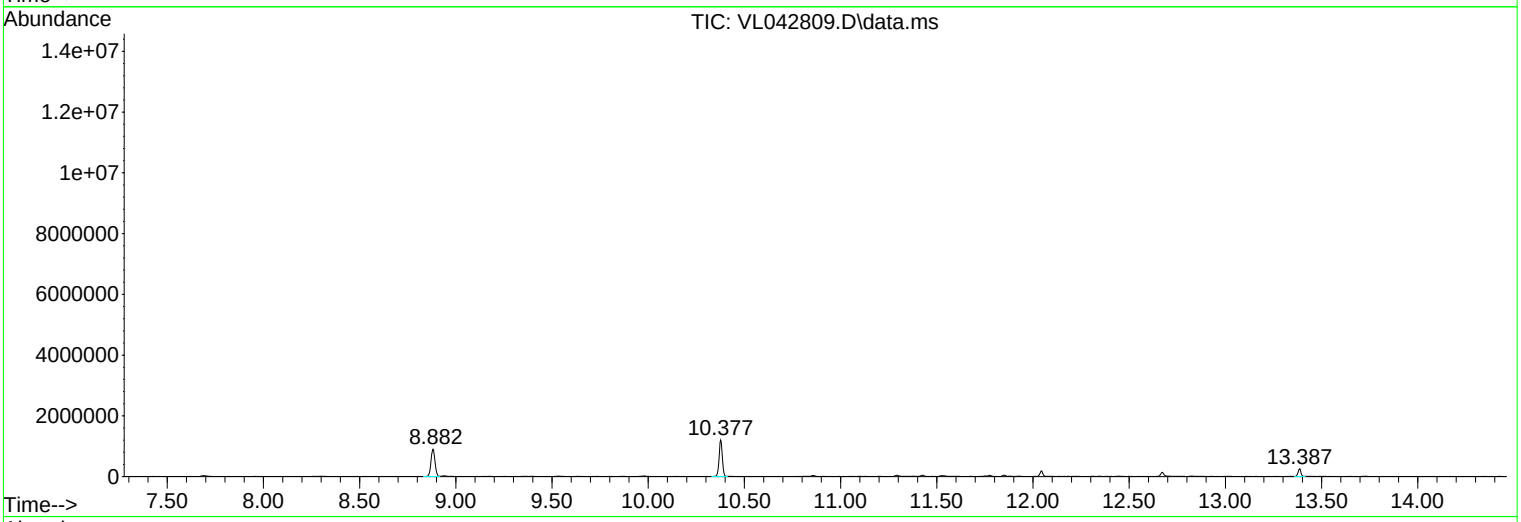
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042809.D
Acq On : 04 Aug 2025 17:26
Operator : SY/MD
Sample : Q2750-10
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

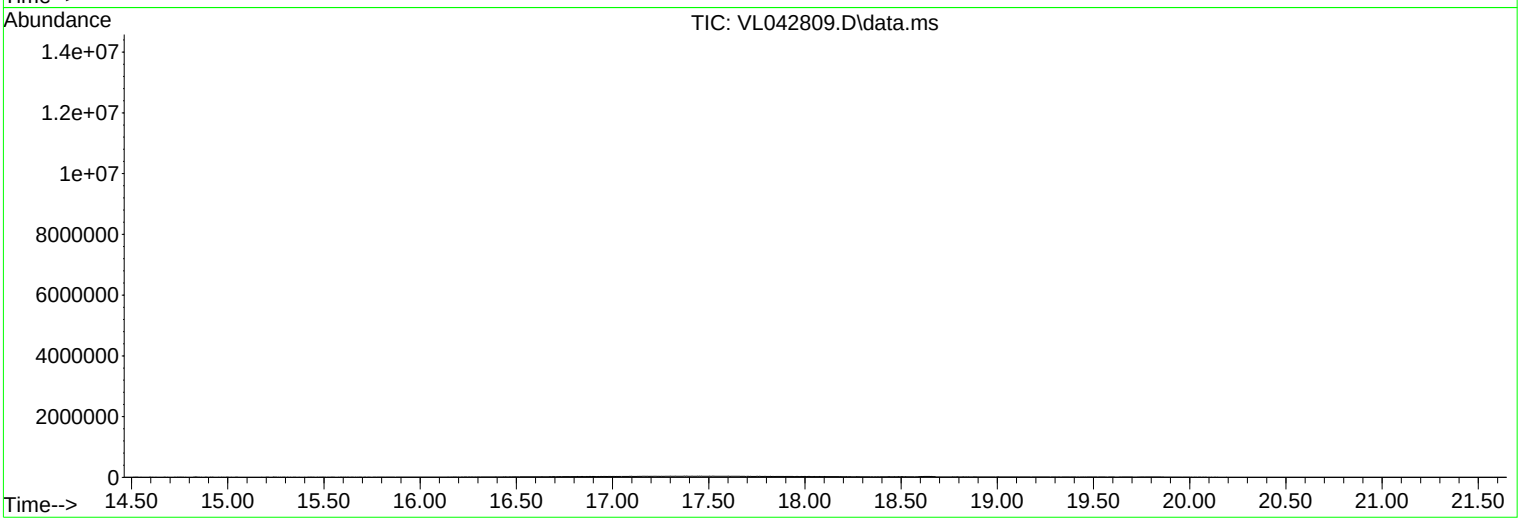
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library :
TIC Integration Parameters: RTEINT.P







Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042809.D
Acq On : 04 Aug 2025 17:26
Operator : SY/MD
Sample : Q2750-10
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library :
TIC Integration Parameters: RTEINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042809.D
Acq On : 04 Aug 2025 17:26
Operator : SY/MD
Sample : Q2750-10
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library :
TIC Integration Parameters: RTEINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-11DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-10DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042810.D	10		08/04/25 18:00	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	1.10	5.44	UD	5.44	24.7	ug/m3
74-87-3	Chloromethane	0.98	2.02	UD	2.02	10.3	ug/m3
75-01-4	Vinyl Chloride	0.25	0.64	UD	0.64	0.77	ug/m3
74-83-9	Bromomethane	0.77	2.99	UD	2.99	19.4	ug/m3
75-00-3	Chloroethane	1.50	3.96	UD	3.96	13.2	ug/m3
109-99-9	Tetrahydrofuran	0.80	2.36	UD	2.36	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1.70	9.55	UD	9.55	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	10.7	UD	10.7	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.50	10.5	UD	10.5	35.0	ug/m3
75-65-0	tert-Butyl alcohol	1.60	4.85	UD	4.85	15.2	ug/m3
142-82-5	Heptane	1.70	6.97	UD	6.97	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.50	5.95	UD	5.95	19.8	ug/m3
67-64-1	Acetone	31.5	74.8	D	4.28	11.9	ug/m3
75-15-0	Carbon Disulfide	0.80	2.49	UD	2.49	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.30	8.29	UD	8.29	18.0	ug/m3
75-09-2	Methylene Chloride	2.30	7.99	UD	7.99	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1.20	4.76	UD	4.76	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	5.26	20.2	ug/m3
110-82-7	Cyclohexane	2.20	7.57	UD	7.57	17.2	ug/m3
78-93-3	2-Butanone	0.56	1.65	UD	1.65	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.25	1.57	UD	1.57	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	UD	3.93	19.8	ug/m3
67-66-3	Chloroform	0.96	4.69	UD	4.69	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.16	0.87	UD	0.87	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	UD	6.54	23.4	ug/m3
71-43-2	Benzene	0.79	2.52	UD	2.52	16.0	ug/m3
107-06-2	1,2-Dichloroethane	0.93	3.76	UD	3.76	20.2	ug/m3
79-01-6	Trichloroethene	0.24	1.29	UD	1.29	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1.30	6.01	UD	6.01	23.1	ug/m3
75-27-4	Bromodichloromethane	0.63	4.22	UD	4.22	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.97	3.98	UD	3.98	20.5	ug/m3
108-88-3	Toluene	1.60	6.03	UD	6.03	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	1.50	6.81	UD	6.81	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.10	4.99	UD	4.99	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	0.81	4.42	UD	4.42	27.3	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-11DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-10DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042810.D	10		08/04/25 18:00	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.85	7.24	UD	7.24	42.6	ug/m3
106-93-4	1,2-Dibromoethane	0.85	6.53	UD	6.53	7.69	ug/m3
127-18-4	Tetrachloroethene	0.15	1.02	UD	1.02	2.03	ug/m3
108-90-7	Chlorobenzene	0.77	3.55	UD	3.55	23.0	ug/m3
100-41-4	Ethyl Benzene	1.90	8.25	UD	8.25	21.7	ug/m3
179601-23-1	m/p-Xylene	4.10	17.8	UD	17.8	43.4	ug/m3
95-47-6	o-Xylene	2.10	9.12	UD	9.12	21.7	ug/m3
100-42-5	Styrene	1.60	6.81	UD	6.81	21.3	ug/m3
75-25-2	Bromoform	0.48	4.96	UD	4.96	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.18	1.24	UD	1.24	2.06	ug/m3
95-49-8	2-Chlorotoluene	1.70	8.80	UD	8.80	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85	UD	8.85	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	UD	8.85	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	0.54	3.25	UD	3.25	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.30	7.82	UD	7.82	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.30	7.82	UD	7.82	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	2.10	15.6	UD	15.6	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.30	13.9	UD	13.9	53.3	ug/m3
106-99-0	1,3-Butadiene	0.51	1.13	UD	1.13	11.1	ug/m3
91-20-3	Naphthalene	0.13	0.68	UD	0.68	5.24	ug/m3
622-96-8	4-Ethyltoluene	2.10	10.3	UD	10.3	24.6	ug/m3
110-54-3	Hexane	4.30	15.2	JD	5.64	17.6	ug/m3
107-05-1	Allyl Chloride	1.10	3.44	UD	3.44	15.7	ug/m3
123-91-1	1,4-Dioxane	2.20	7.93	UD	7.93	18.0	ug/m3
80-62-6	Methyl Methacrylate	1.40	5.73	UD	5.73	20.5	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.30			70 (65) - 130 (135)	93%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	152000		2.784			
540-36-3	1,4-Difluorobenzene	405000		3.956			
3114-55-4	Chlorobenzene-d5	345000		8.879			

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/01/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/01/25
Client Sample ID:	WONDER IA-11DL	SDG No.:	Q2750
Lab Sample ID:	Q2750-10DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042810.D	10		08/04/25 18:00	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042810.D
Acq On : 04 Aug 2025 18:00
Operator : SY/MD
Sample : Q2750-10DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:10:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	151986	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	405426	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	345370	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	255374	9.337	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 93.400%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.473	51	46568	1.779	ppbv	97
9) Propene	1.486	41	3397m	0.357	ppbv	
13) Ethanol	1.719	45	163998	235.588	ppbv	90
15) Acetone	1.836	43	66024	3.146	ppbv	98
19) Isopropyl Alcohol	1.884	45	2471720	221.626	ppbv #	39
26) Hexane	2.823	57	8716	0.428	ppbv #	47

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

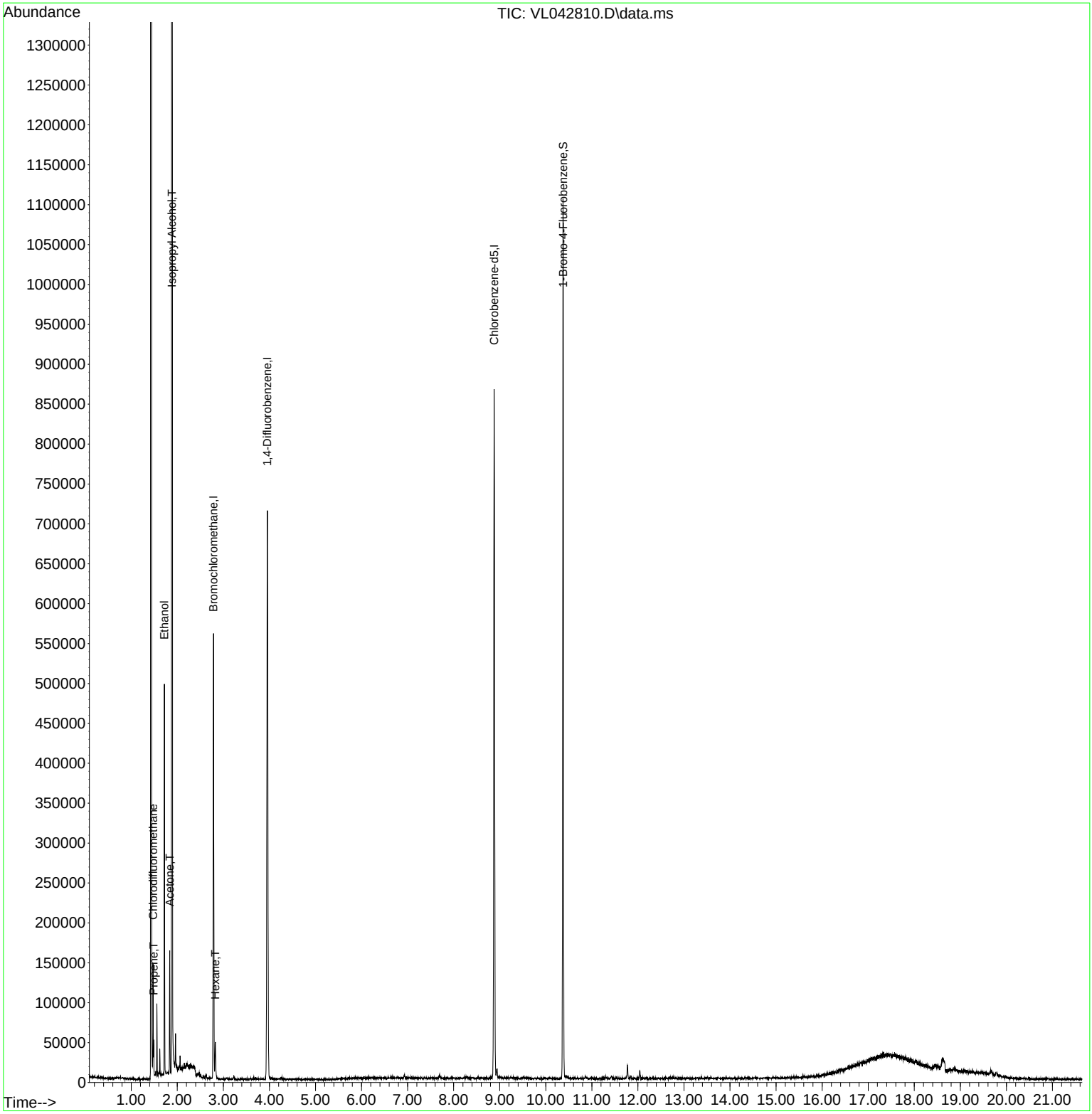
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042810.D
Acq On : 04 Aug 2025 18:00
Operator : SY/MD
Sample : Q2750-10DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

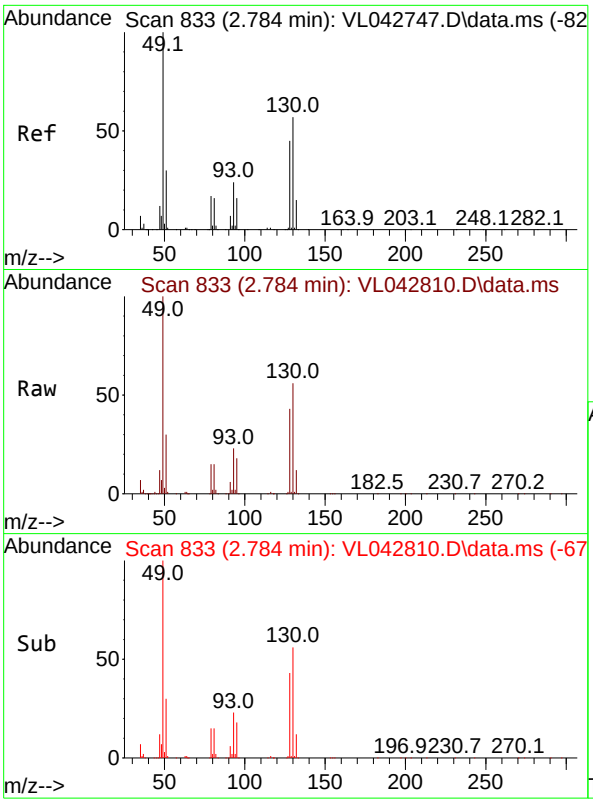
Quant Time: Aug 05 01:10:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

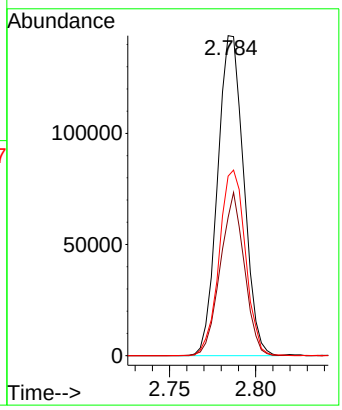




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 49 Resp: 15198

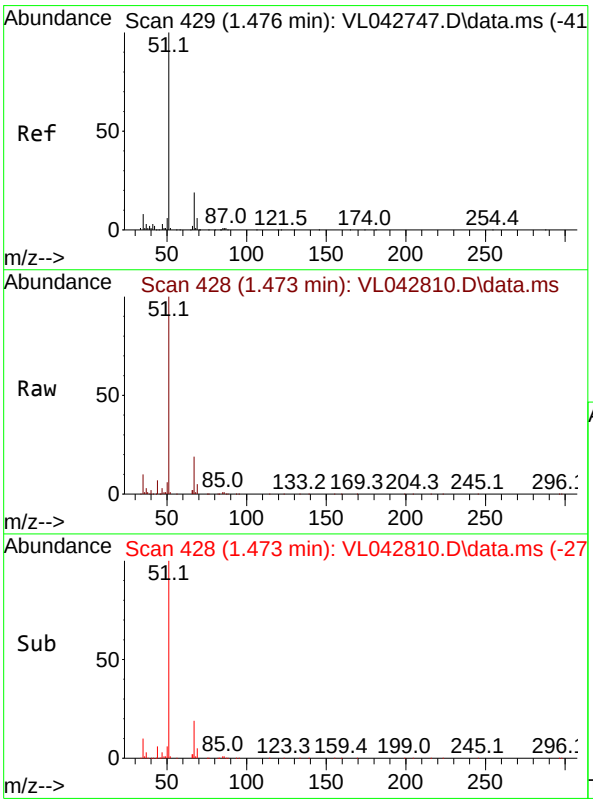
Ion	Ratio	Lower	Upper
49	100		
128	46.8	23.6	71.0
130	58.2	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Manual Integrations
APPROVED

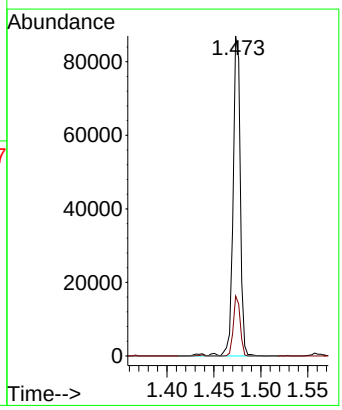
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

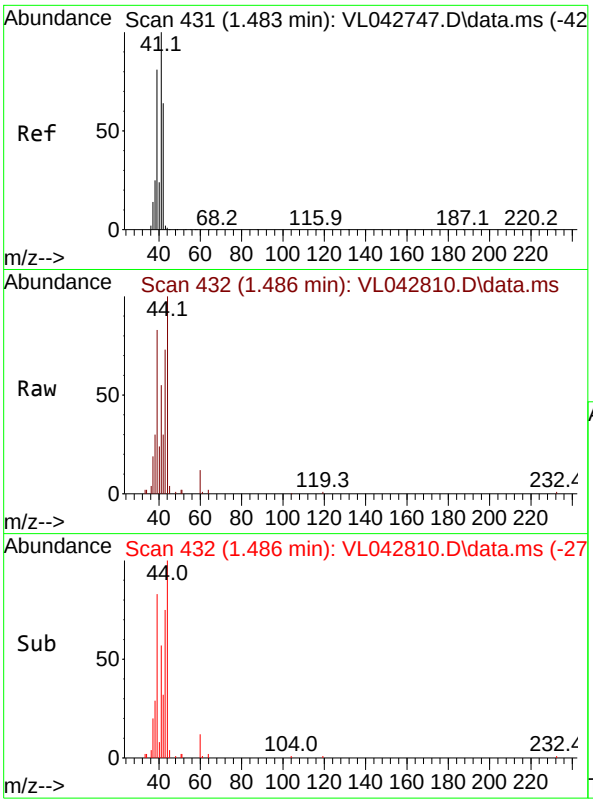


#3
Chlorodifluoromethane
Concen: 1.779 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.003 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 51 Resp: 46568

Ion	Ratio	Lower	Upper
51	100		
67	17.6	15.0	22.6

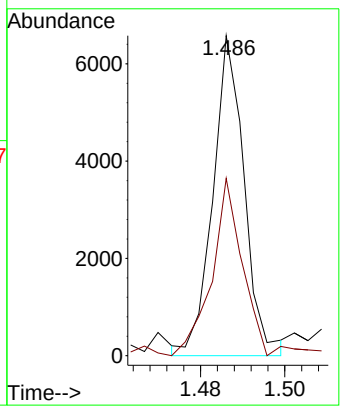




#9
Propene
Concen: 0.357 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 41 Resp: 339

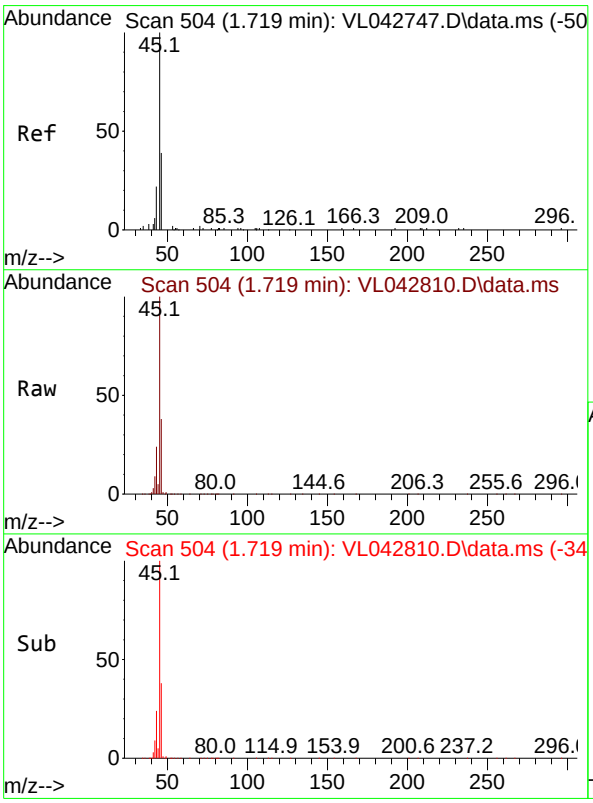
Ion	Ratio	Lower	Upper
41	100		
42	6346.9	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Manual Integrations
APPROVED

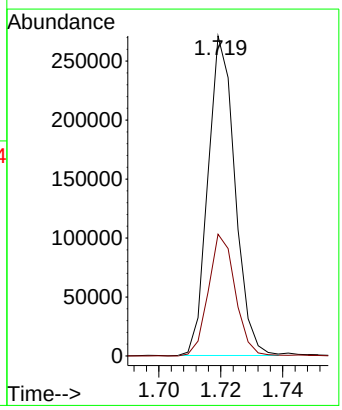
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

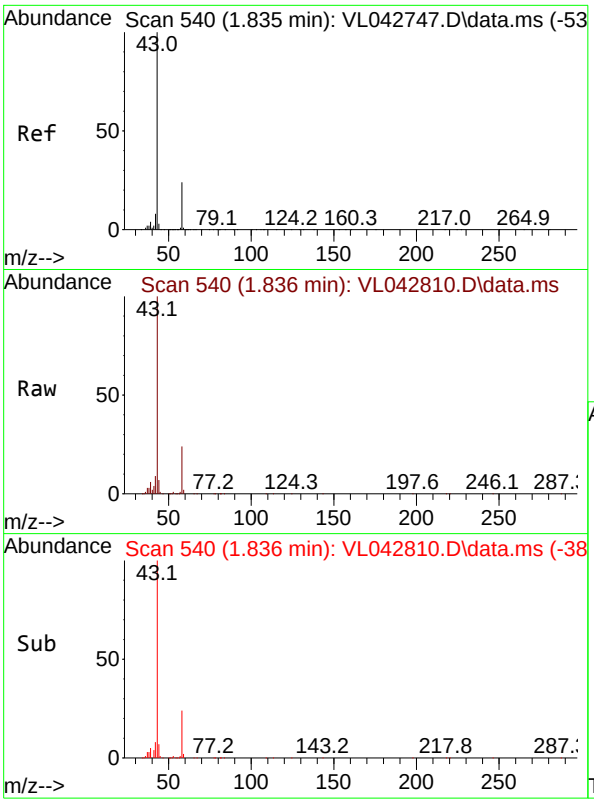


#13
Ethanol
Concen: 235.588 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 45 Resp: 163998

Ion	Ratio	Lower	Upper
45	100		
46	38.3	17.8	71.4

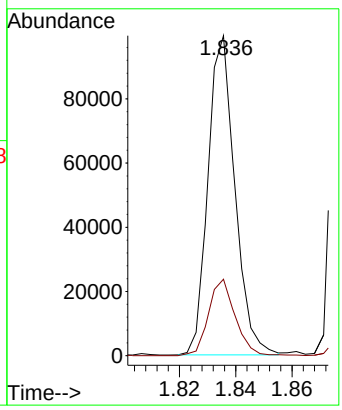




#15
Acetone
Concen: 3.146 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 43 Resp: 6602

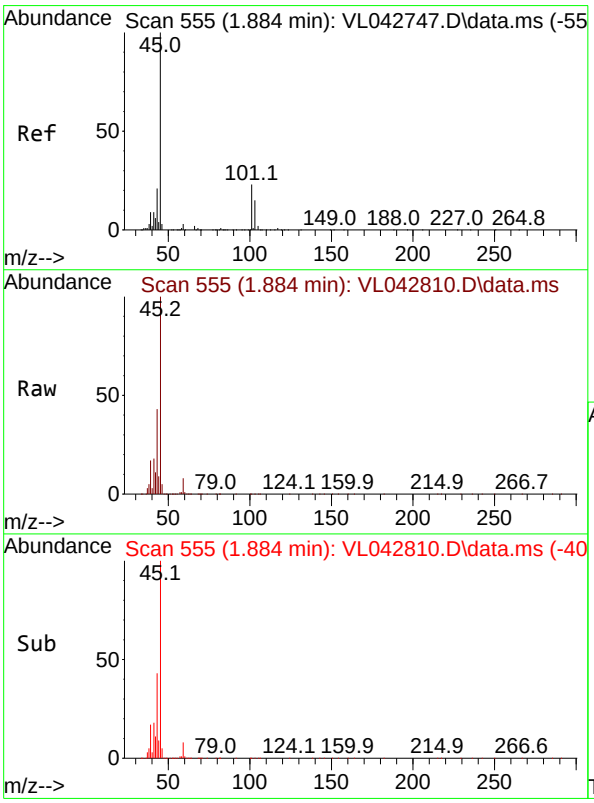
Ion	Ratio	Lower	Upper
43	100		
58	23.8	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Manual Integrations
APPROVED

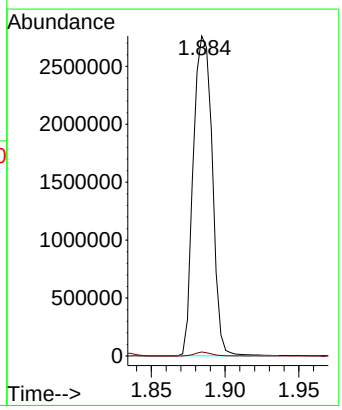
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

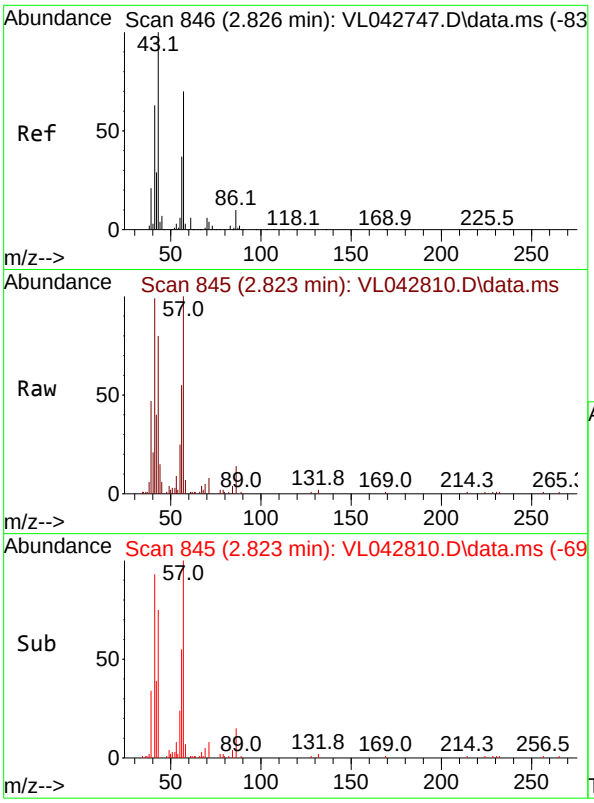


#19
Isopropyl Alcohol
Concen: 221.626 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 45 Resp: 2471720

Ion	Ratio	Lower	Upper
45	100		
58	1.1	30.0	45.0#

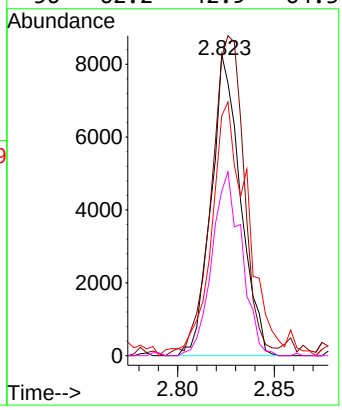




#26
Hexane
Concen: 0.428 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 57 Resp: 871

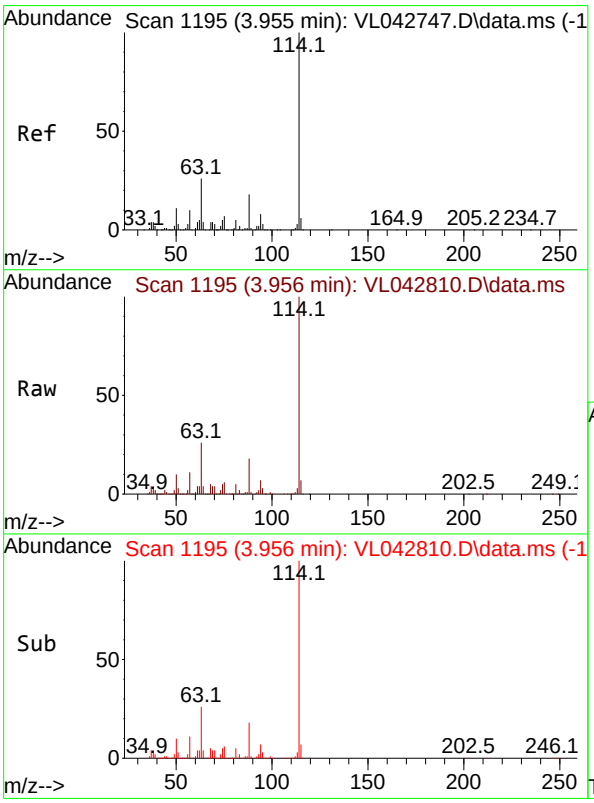
Ion	Ratio	Lower	Upper
57	100		
41	124.7	75.4	113.2#
43	111.7	185.0	277.6#
56	62.2	42.9	64.3



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Manual Integrations
APPROVED

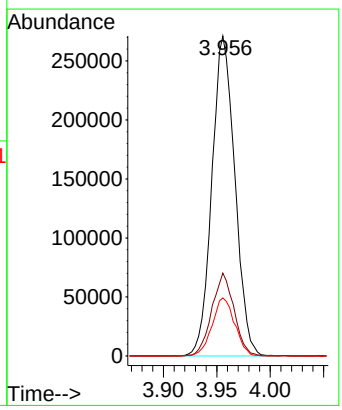
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

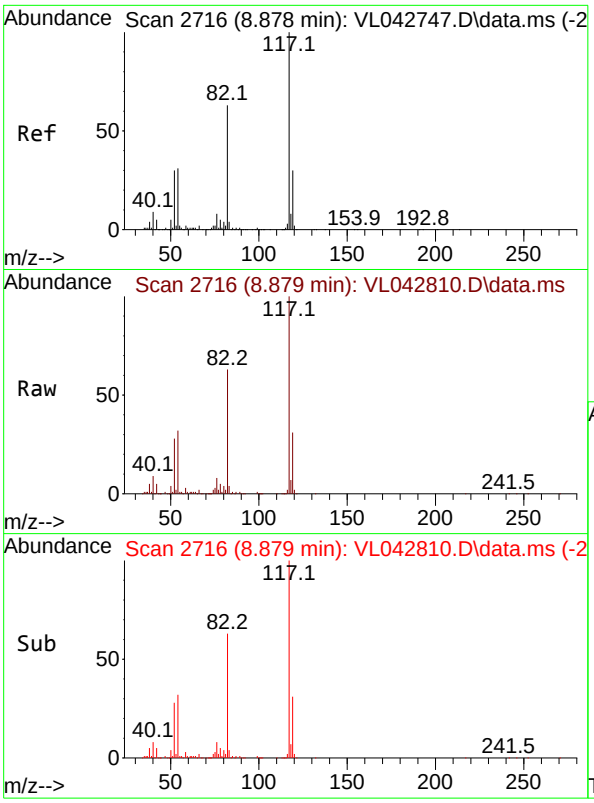


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion:114 Resp: 405426

Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.5	30.7
88	17.9	14.0	21.0

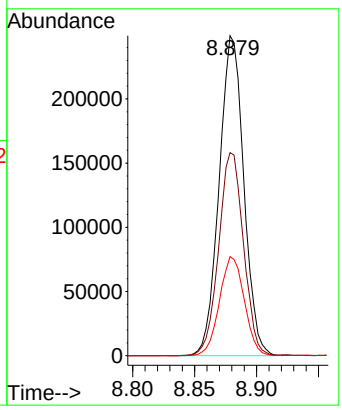




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion:117 Resp: 34537

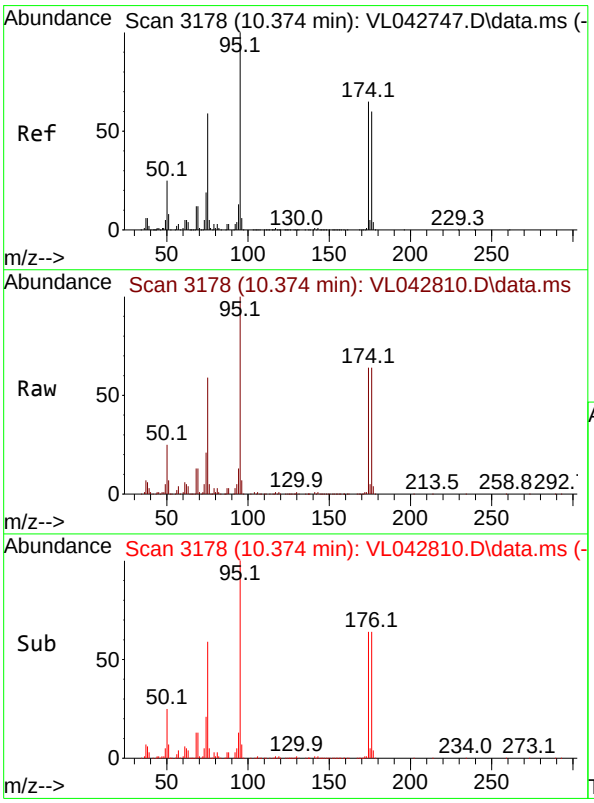
Ion	Ratio	Lower	Upper
117	100		
82	64.1	53.3	79.9
119	31.3	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Manual Integrations
APPROVED

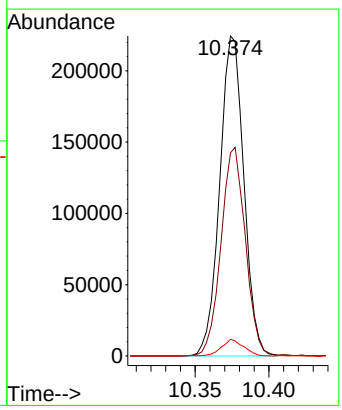
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.337 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 95 Resp: 255374

Ion	Ratio	Lower	Upper
95	100		
174	66.0	53.8	80.6
175	4.8	4.0	6.0



CALIBRATION SUMMARY

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Thu Jul 24 05:24:41 2025
Response Via : Initial Calibration

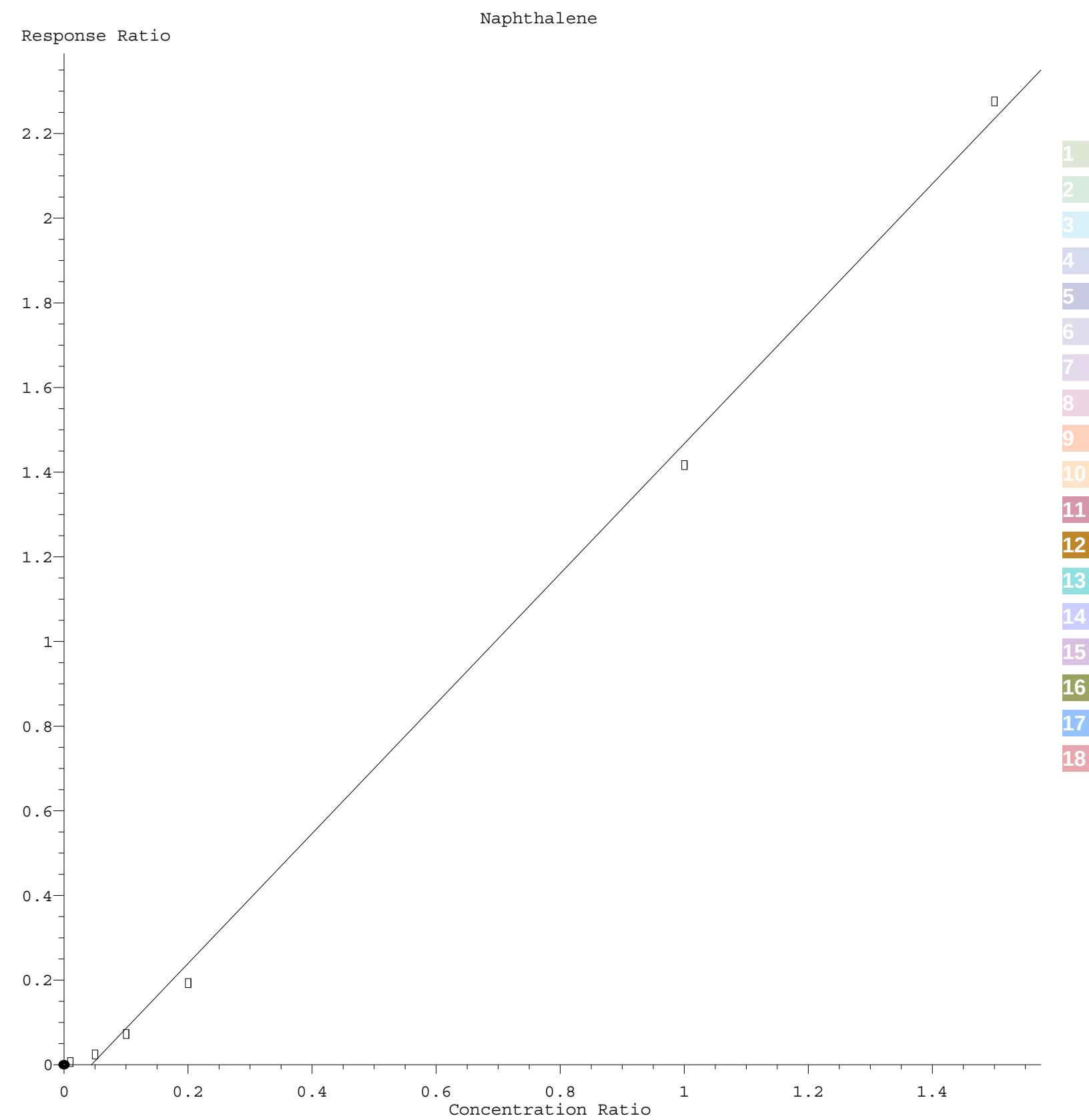
Calibration Files
0.03=VL042752.D 0.1 =VL042754.D 0.5 =VL042750.D 1 =VL042749.D 2 =VL042748.D 10 =VL042747.D 15 =VL042753.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.468	1.339	1.377	1.198	1.229	1.322	8.34
3)		Chlorodifluoro...			1.890	1.757	1.772	1.625	1.567	1.722	7.41
4)		Chloromethane			0.585	0.579	0.531	0.484	0.495	0.535	8.70
5)	T	Vinyl Chloride	0.825	0.549	0.516	0.476	0.485	0.411	0.437	0.528	26.27
6)	T	Bromomethane			0.227	0.239	0.181	0.178	0.196	0.204	13.52
7)		Chloroethane			0.278	0.196	0.189	0.177	0.181	0.204	20.51
8)	T	Dichlorotetraf...			1.186	1.130	1.123	0.980	1.017	1.087	7.89
9)	T	Propene			0.621	0.662	0.681	0.594	0.572	0.626	7.25
10)	T	Heptane			1.719	1.672	1.780	1.633	1.635	1.688	3.68
11)	T	Trichlorofluor...			1.457	1.435	1.412	1.226	1.285	1.363	7.47
12)	T	1,1,2-Trichlor...			1.115	1.063	1.069	0.940	0.991	1.036	6.67
13)		Ethanol			0.141	0.104	0.073	0.050	0.049	0.083	46.80
14)	T	Bromoethene			0.393	0.379	0.381	0.337	0.343	0.367	6.76
15)	T	Acetone			1.853	1.479	1.521	0.998	1.054	1.381	25.75
16)	T	1,3-Butadiene			0.726	0.602	0.583	0.509	0.524	0.589	14.57
17)		tert-Butyl alc...			1.366	1.275	1.265	1.165	1.156	1.245	7.01
18)	T	1,1-Dichloroet...			0.536	0.530	0.453	0.404	0.417	0.468	13.20
19)	T	Isopropyl Alcohol			0.857	0.764	0.726	0.659	0.663	0.734	11.12
20)	T	Methylene Chlo...			0.595	0.458	0.419	0.337	0.367	0.435	23.16
21)	T	Allyl Chloride			0.903	0.856	0.876	0.798	0.821	0.851	4.92
22)	T	trans-1,2-Dich...			0.553	0.506	0.523	0.460	0.475	0.503	7.46
23)	T	Vinyl Acetate			1.643	1.502	1.688	1.704	1.833	1.674	7.14
24)	T	1,1-Dichloroet...			1.053	1.117	1.071	0.945	0.981	1.033	6.75
25)	T	Ethyl Acetate			3.125	3.122	3.212	2.954	2.870	3.056	4.57
26)	T	Hexane			1.325	1.425	1.433	1.281	1.240	1.341	6.43
27)	T	Carbon Disulfide			1.146	1.183	1.165	1.088	1.157	1.148	3.13
28)	T	Methyl tert-Bu...			0.653	0.613	0.650	0.556	0.696	0.633	8.28
29)	T	Chloroform			2.261	2.104	2.136	1.915	1.943	2.072	6.92
30)	T	Cyclohexane			1.137	1.140	1.201	1.125	1.083	1.137	3.74
31)	T	cis-1,2-Dichlo...			1.459	1.406	1.414	1.306	1.304	1.378	5.05
32)	T	1,1,1-Trichlor...	2.522	2.330	2.133	2.048	2.132	1.957	1.985	2.158	9.39
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.730	0.713	0.761	0.663	0.675	0.708	5.64
35)	T	Carbon Tetrach...	0.950	0.692	0.681	0.709	0.735	0.701	0.731	0.743	12.56
36)	T	Benzene			0.976	0.971	0.995	0.896	0.900	0.948	4.86
37)	T	1,2-Dichloroet...			0.595	0.585	0.584	0.537	0.553	0.571	4.34
38)	T	Trichloroethene	0.511	0.503	0.452	0.459	0.445	0.408	0.409	0.455	8.97
39)	T	1,2-Dichloropr...			0.371	0.362	0.363	0.324	0.330	0.350	6.13

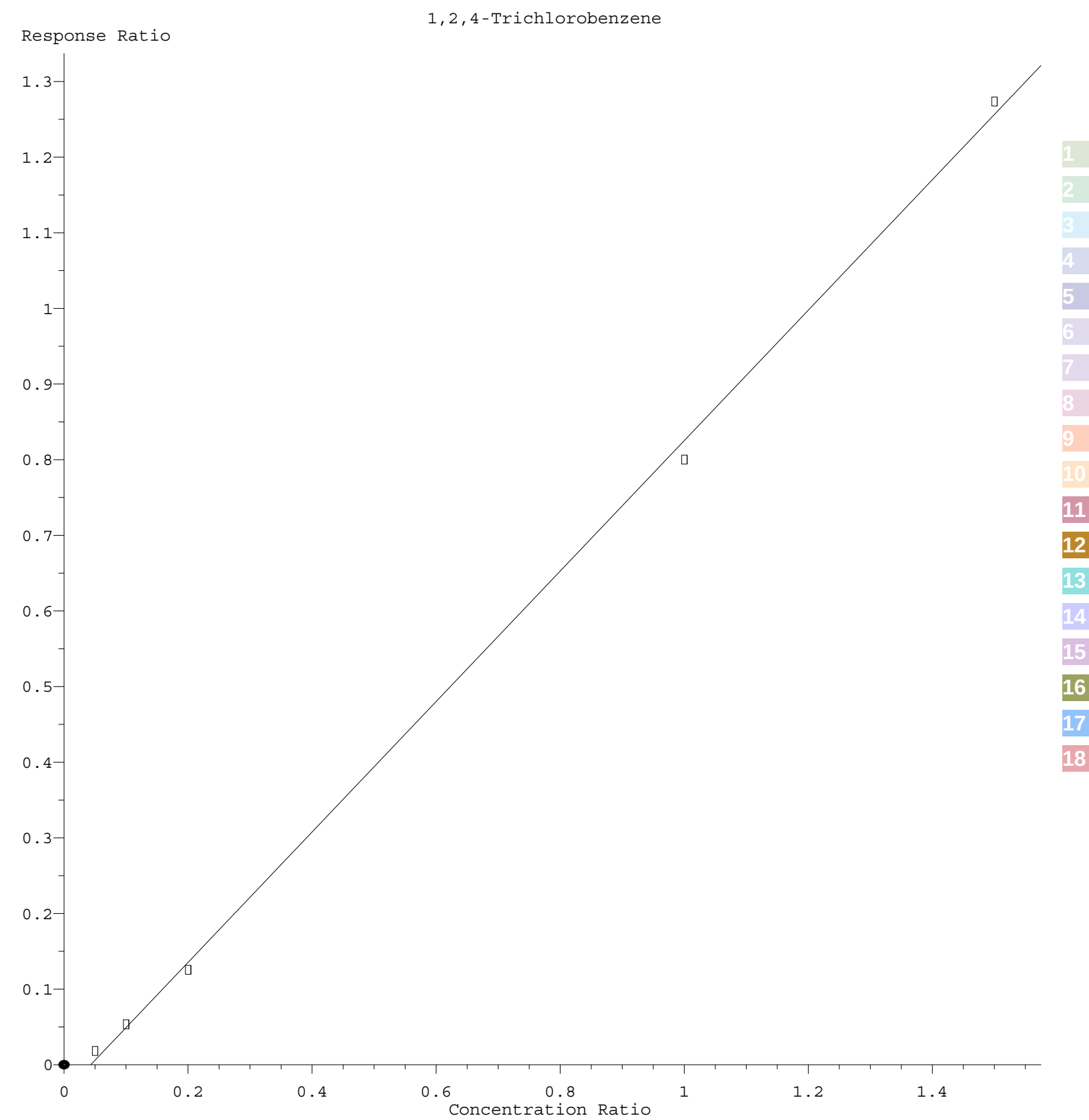
Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL072325AIR.M

40)	T	1,4-Dioxane			0.177	0.170	0.174	0.141	0.153	0.163	9.36
41)	T	Tetrahydrofuran			0.361	0.350	0.367	0.362	0.362	0.360	1.74
42)	T	Bromodichlorom...			0.720	0.761	0.755	0.723	0.759	0.744	2.75
43)		Methyl Methacr...			0.321	0.324	0.331	0.348	0.361	0.337	5.05
44)	T	2,2,4-Trimethy...			1.515	1.585	1.634	1.486	1.503	1.545	4.03
45)	T	t-1,3-Dichloro...			0.357	0.340	0.375	0.402	0.415	0.378	8.21
46)	T	cis-1,3-Dichlo...			0.435	0.459	0.479	0.507	0.514	0.479	6.95
47)	T	1,1,2-Trichlor...			0.393	0.384	0.385	0.347	0.356	0.373	5.41
48)	T	Dibromochlorom...			0.569	0.571	0.600	0.600	0.619	0.592	3.61
49)	T	Bromoform			0.483	0.502	0.517	0.529	0.549	0.516	4.87
50)	T	4-Methyl-2-Pen...			0.876	0.907	0.956	0.895	0.928	0.912	3.39
51)	T	2-Hexanone			0.573	0.647	0.744	0.726	0.757	0.690	11.25
52)	T	Tetrachloroethene	0.504	0.422	0.374	0.394	0.378	0.339	0.339	0.393	14.53
53)	T	Toluene			0.954	0.993	1.074	1.022	1.045	1.018	4.55
54)	T	1,2-Dibromoethane		0.498	0.550	0.531	0.539	0.514	0.529	0.527	3.51
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.548	0.520	0.541	0.484	0.508	0.520	4.96
57)	T	Chlorobenzene			1.019	1.019	1.016	0.879	0.905	0.968	7.22
58)	T	Ethyl Benzene			1.426	1.548	1.744	1.551	1.627	1.579	7.40
59)	T	m/p-Xylene			1.151	1.275	1.354	1.234	1.296	1.262	6.00
60)	T	o-Xylene			1.155	1.280	1.381	1.225	1.264	1.261	6.55
61)	T	Styrene			0.450	0.495	0.552	0.561	0.594	0.531	10.81
62)		Isopropylbenzene			1.722	1.885	2.034	1.793	1.866	1.860	6.27
63)	T	1,1,2,2-Tetrac...	1.105	0.785	0.761	0.795	0.803	0.693	0.726	0.810	16.82
64)		n-propylbenzene			0.437	0.490	0.533	0.469	0.496	0.485	7.31
65)		tert-Butylbenzene			1.496	1.669	1.839	1.606	1.652	1.652	7.52
66)	T	Benzyl Chloride			0.114	0.115	0.128	0.159	0.163	0.136	17.43
67)		sec-Butylbenzene			2.162	2.474	2.592	2.225	2.297	2.350	7.61
68)	S	1-Bromo-4-Fluo...	0.780	0.759	0.782	0.799	0.805	0.801	0.818	0.792	2.50
69)		p-Isopropyltol...			1.620	1.907	2.137	1.928	1.989	1.916	9.83
70)		n-Butylbenzene			1.422	1.811	2.090	1.939	1.994	1.851	14.06
71)		2-Chlorotoluene			1.331	1.444	1.522	1.385	1.451	1.426	5.08
72)	T	4-Ethyltoluene			1.292	1.493	1.632	1.524	1.589	1.506	8.74
73)	T	1,3,5-Trimethy...			1.096	1.193	1.315	1.275	1.321	1.240	7.70
74)	T	1,2,4-Trimethy...			1.115	1.345	1.489	1.384	1.432	1.353	10.61
75)	T	1,3-Dichlorobe...			0.914	0.970	1.038	0.887	0.933	0.948	6.14
76)	T	1,4-Dichlorobe...			0.862	0.927	1.016	0.896	0.940	0.928	6.19
77)	T	1,2-Dichlorobe...			0.920	0.996	1.002	0.848	0.894	0.932	7.10
78)	T	Hexachloro-1,3...			0.897	0.908	0.953	0.712	0.748	0.844	12.62
79)	T	Naphthalene		0.638	0.485	0.727	0.964	1.417	1.517	0.958	44.34
80)	T	Naphthalene,2-...			0.036	0.048	0.071	0.685	0.790	0.326	115.91
81)	T	1,2,4-Trichlor...			0.365	0.535	0.627	0.800	0.849	0.635	31.11

(#) = Out of Range



Response = 1.535e+000 * Amt - 6.678e-002
Coef of Det (r^2) = 0.997757 Curve Fit: Linear
Method File: Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Calibration Table Last Updated: Thu Jul 24 05:24:41 2025



Response = 8.625e-001 * Amt - 3.751e-002
Coef of Det (r^2) = 0.999044 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Calibration Table Last Updated: Thu Jul 24 05:24:41 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042747.D
Acq On : 23 Jul 2025 08:58
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 04:56:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	159080	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	462763	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	422206	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	338271	10.117	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	190592	9.062	ppbv	100
3) Chlorodifluoromethane	1.476	51	258542	9.436	ppbv	100
4) Chloromethane	1.531	50	77006	9.050	ppbv	100
5) Vinyl Chloride	1.580	62	65346	7.773	ppbv	100
6) Bromomethane	1.667	94	28292	8.705	ppbv	100
7) Chloroethane	1.703	64	28085	8.646	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	155875	9.011	ppbv	100
9) Propene	1.483	41	94480	9.488	ppbv	100
10) Heptane	4.975	43	259821	9.701	ppbv	100
11) Trichlorofluoromethane	1.878	101	194964	8.992	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	149612	9.081	ppbv	100
13) Ethanol	1.719	45	7949	9.867	ppbv	97
14) Bromoethene	1.780	108	53625	9.193	ppbv	100
15) Acetone	1.835	43	158714	7.225	ppbv	100
16) 1,3-Butadiene	1.609	39	80968	8.642	ppbv	100
17) tert-Butyl alcohol	2.039	59	185262	9.351	ppbv	100
18) 1,1-Dichloroethene	2.033	96	64224	8.627	ppbv	100
19) Isopropyl Alcohol	1.884	45	104903	8.987	ppbv	100
20) Methylene Chloride	2.059	84	53581	7.740	ppbv	100
21) Allyl Chloride	2.094	41	127021	9.382	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	73152	9.148	ppbv	100
23) Vinyl Acetate	2.460	43	271125	10.181	ppbv	100
24) 1,1-Dichloroethane	2.408	63	150257	9.141	ppbv	100
25) Ethyl Acetate	2.832	43	469997	9.666	ppbv	100
26) Hexane	2.826	57	203800	9.555	ppbv	100
27) Carbon Disulfide	2.149	76	173105	9.480	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	88372	8.770	ppbv	100
29) Chloroform	2.845	83	304670	9.244	ppbv	100
30) Cyclohexane	3.852	84	178948	9.892	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	207751	9.479	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	311368	9.069	ppbv	100
34) 2-Butanone	2.554	43	306858	9.361	ppbv	100
35) Carbon Tetrachloride	3.758	117	324501	9.436	ppbv	100
36) Benzene	3.654	78	414863	9.459	ppbv	100
37) 1,2-Dichloroethane	3.217	62	248414	9.403	ppbv	100
38) Trichloroethene	4.545	130	188750	8.926	ppbv	100
39) 1,2-Dichloropropane	4.311	63	149771	9.251	ppbv	100
40) 1,4-Dioxane	4.580	88	65413	8.569	ppbv #	100
41) Tetrahydrofuran	3.049	42	167323	10.160	ppbv	100
42) Bromodichloromethane	4.483	83	334531	9.713	ppbv	100
43) Methyl Methacrylate	4.875	69	161053	10.331	ppbv	100
44) 2,2,4-Trimethylpentane	4.638	57	687885	9.623	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	185965	10.633	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042747.D
Acq On : 23 Jul 2025 08:58
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 04:56:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	234594	10.587	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	160431	9.297	ppbv	100
48) Dibromochloromethane	7.383	129	277832	10.141	ppbv	100
49) Bromoform	9.480	173	244997	10.256	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	413966	9.914	ppbv	100
51) 2-Hexanone	7.432	43	336048	10.532	ppbv	100
52) Tetrachloroethene	8.225	164	156930	8.609	ppbv	100
53) Toluene	6.930	91	472953	10.042	ppbv	100
54) 1,2-Dibromoethane	7.648	107	238045	9.745	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	204205	9.302	ppbv	100
57) Chlorobenzene	8.920	112	371117	9.082	ppbv	100
58) Ethyl Benzene	9.354	91	655020	9.824	ppbv	100
59) m/p-Xylene	9.552	91	1042332m	19.555	ppbv	
60) o-Xylene	9.963	91	517292	9.715	ppbv	100
61) Styrene	9.869	104	236709	10.568	ppbv	100
62) Isopropylbenzene	10.539	105	757219	9.641	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	292568	8.434	ppbv	100
64) n-propylbenzene	10.989	120	198109	9.675	ppbv	100
65) tert-Butylbenzene	11.529	119	678174	9.721	ppbv	100
66) Benzyl Chloride	11.617	91	66954	11.691	ppbv	100
67) sec-Butylbenzene	11.765	105	939396	9.468	ppbv	100
69) p-Isopropyltoluene	11.924	119	814010	10.061	ppbv	100
70) n-Butylbenzene	12.280	91	818457	10.473	ppbv	100
71) 2-Chlorotoluene	10.898	91	584629	9.708	ppbv	100
72) 4-Ethyltoluene	11.125	105	643519	10.120	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	538451	10.285	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	584447	10.232	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	374587	9.355	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	378093	9.649	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	358206	9.102	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	300801	8.444	ppbv	100
79) Naphthalene	13.513	128	598108	9.665	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	289412	9.404	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	337776	9.710	ppbv	100

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

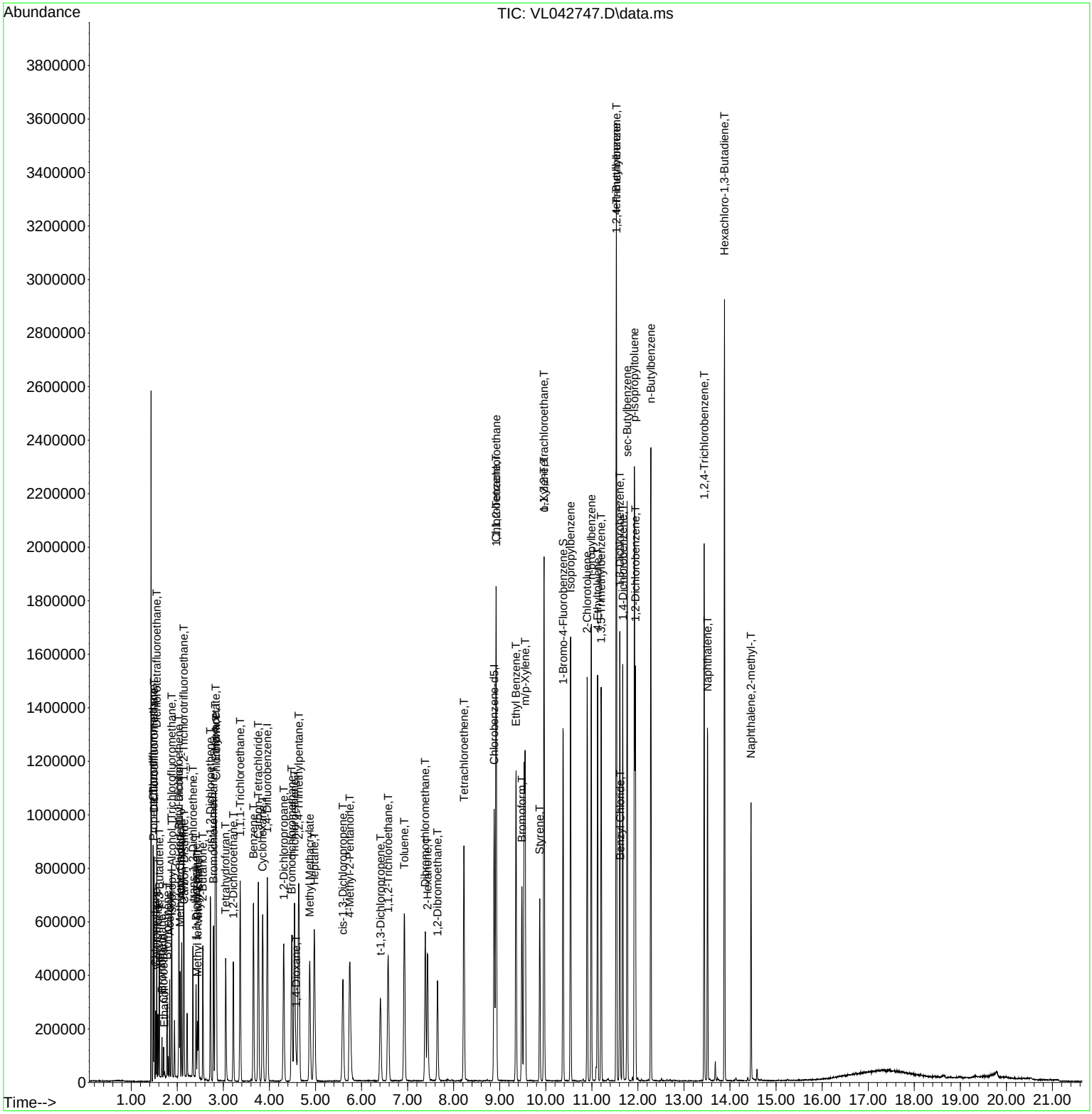
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042747.D
Acq On : 23 Jul 2025 08:58
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

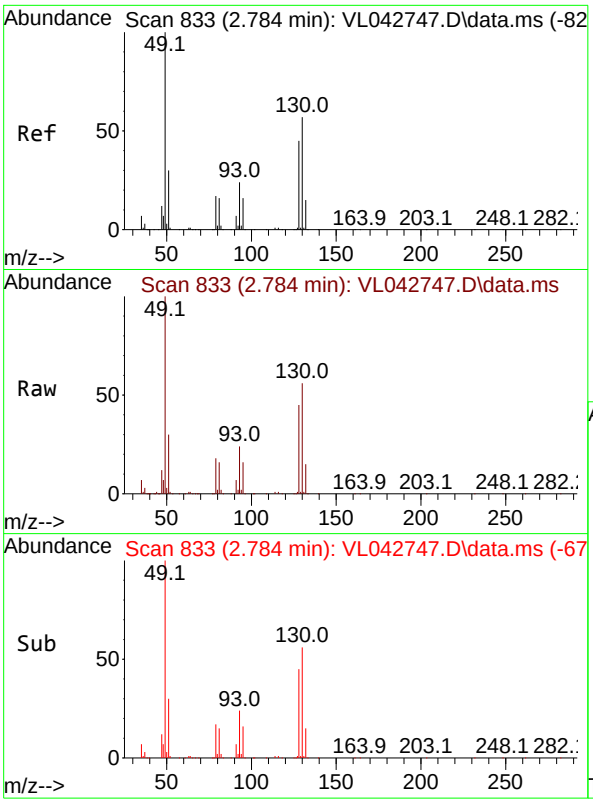
Quant Time: Jul 24 04:56:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

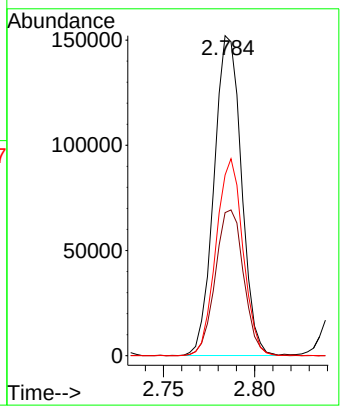




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 49 Resp: 15908

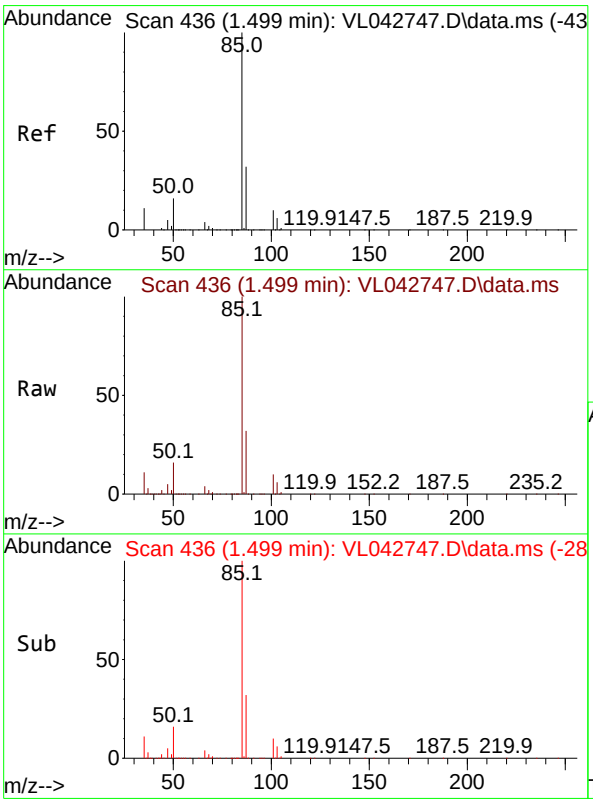
Ion	Ratio	Lower	Upper
49	100		
128	47.3	23.6	71.0
130	60.5	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

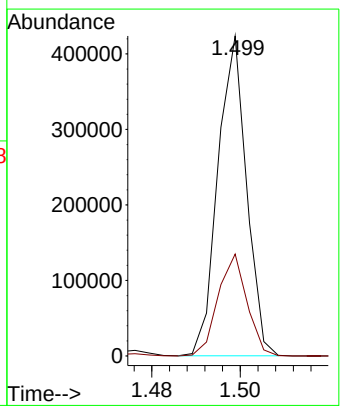
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

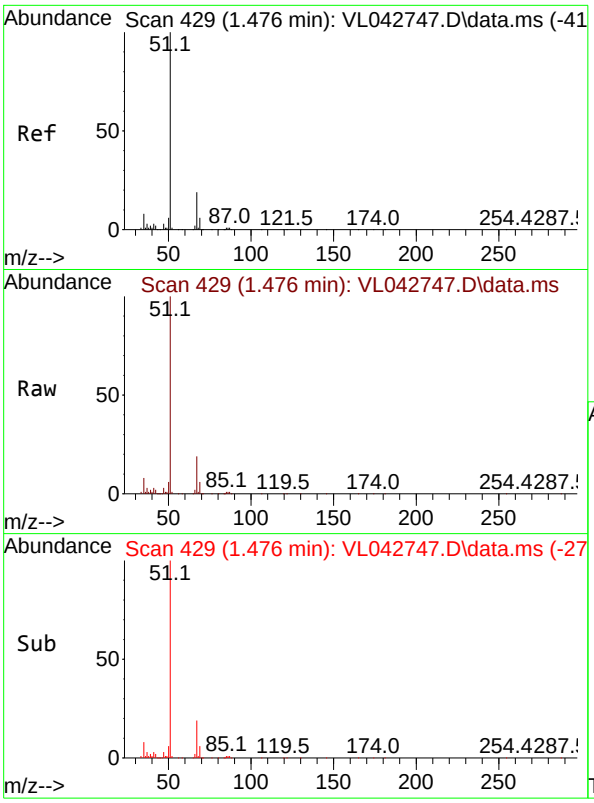


#2
Dichlorodifluoromethane
Concen: 9.062 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 85 Resp: 190592

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.4	38.2

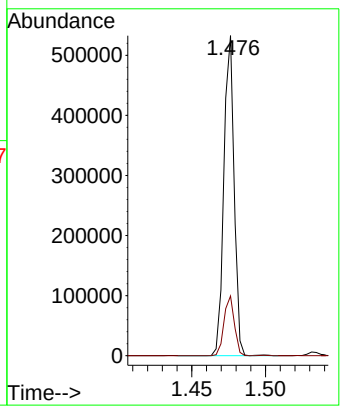




#3
Chlorodifluoromethane
Concen: 9.436 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 51 Resp: 25854

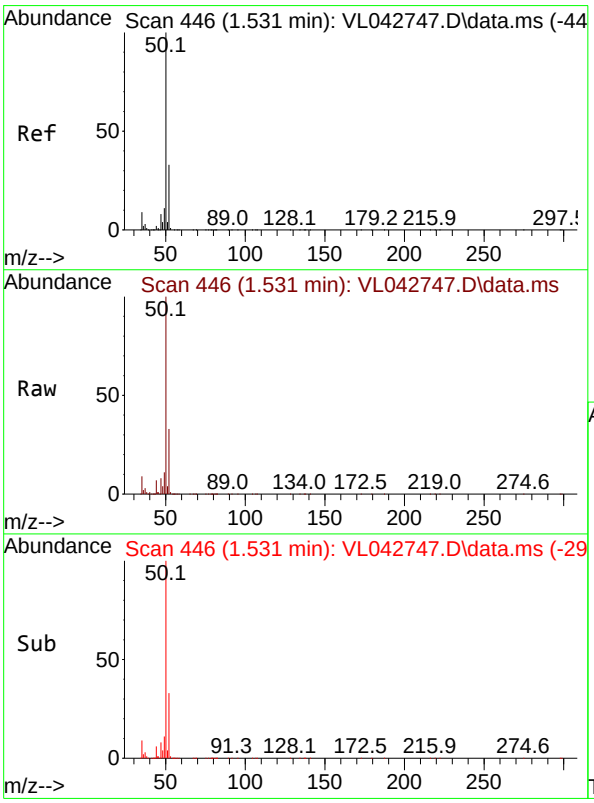
Ion	Ratio	Lower	Upper
51	100		
67	18.8	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

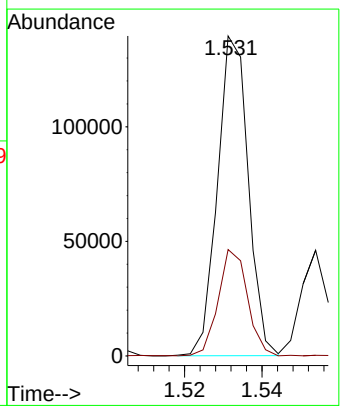
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

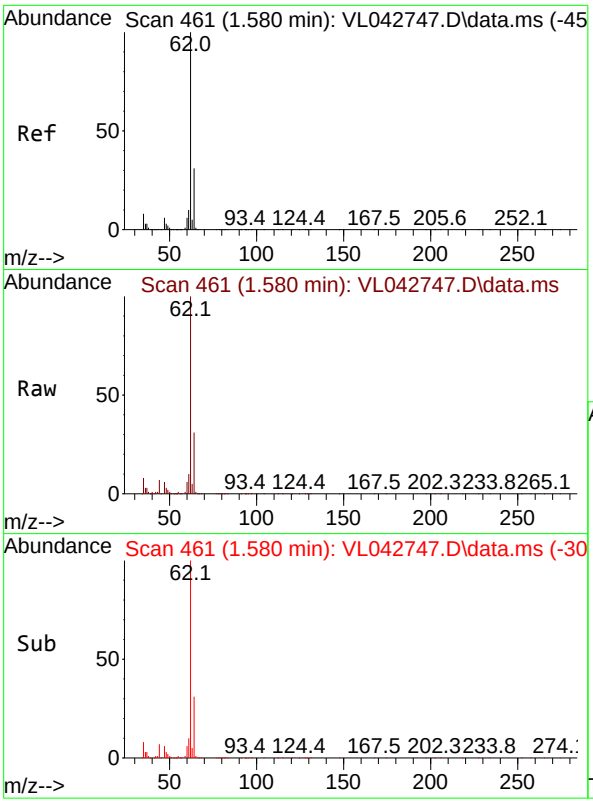


#4
Chloromethane
Concen: 9.050 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 50 Resp: 77006

Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.6	40.0

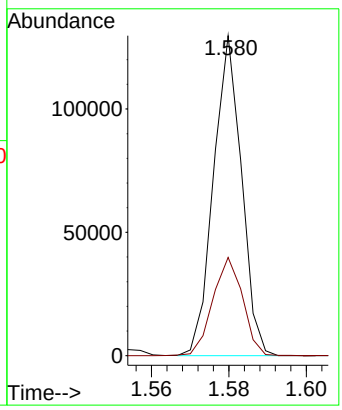




#5
Vinyl Chloride
Concen: 7.773 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 62 Resp: 6534

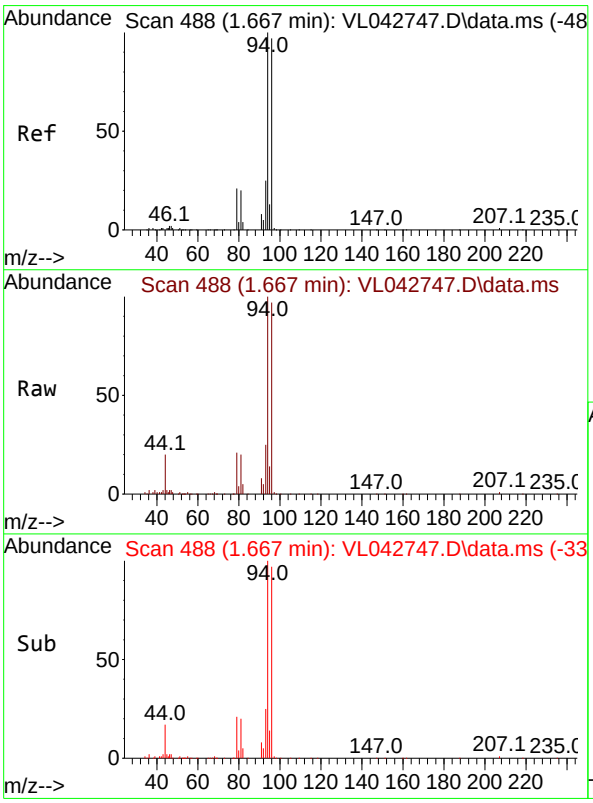
Ion	Ratio	Lower	Upper
62	100		
64	30.6	24.5	36.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

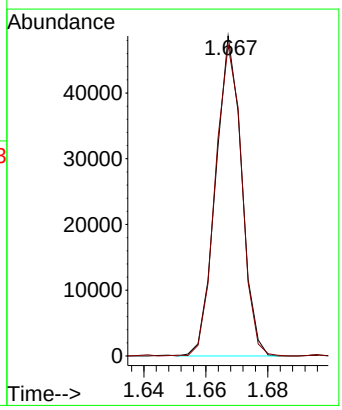
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

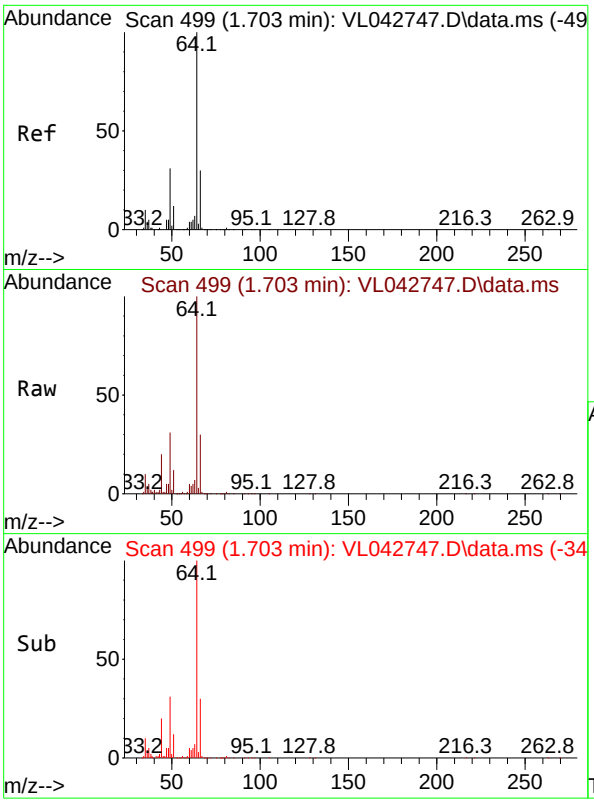


#6
Bromomethane
Concen: 8.705 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 94 Resp: 28292

Ion	Ratio	Lower	Upper
94	100		
96	97.0	77.6	116.4

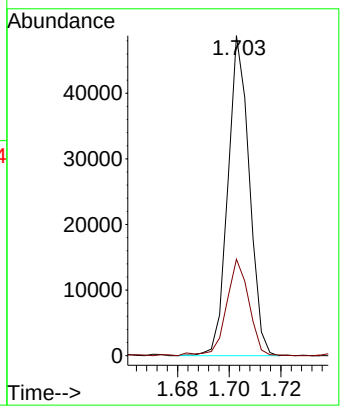




#7
Chloroethane
Concen: 8.646 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 64 Resp: 2808

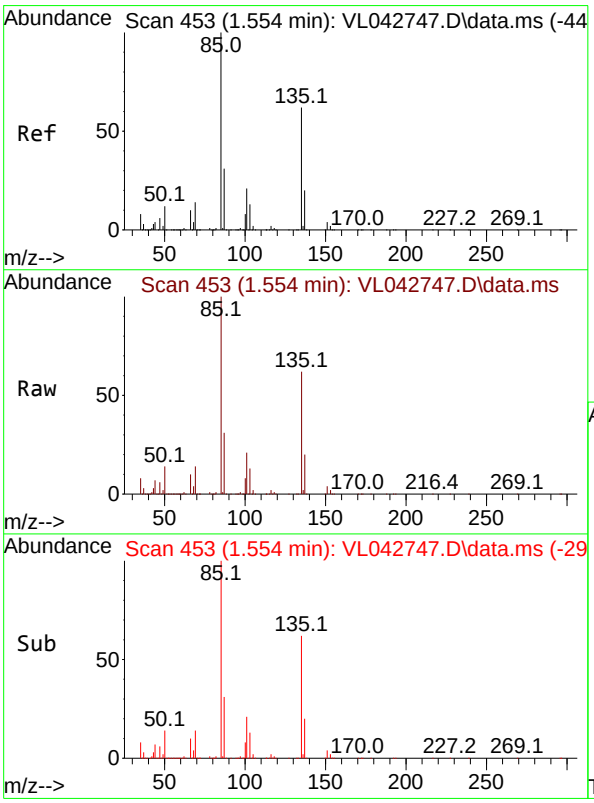
Ion	Ratio	Lower	Upper
64	100		
66	30.1	24.1	36.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

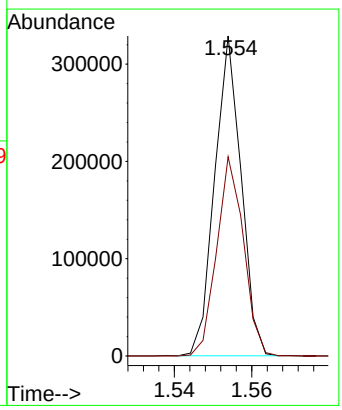
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

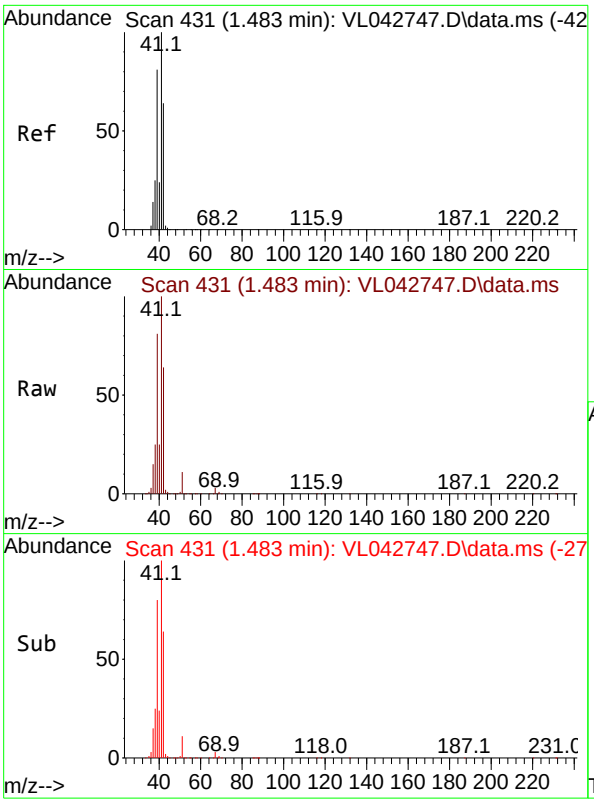


#8
Dichlorotetrafluoroethane
Concen: 9.011 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 85 Resp: 155875

Ion	Ratio	Lower	Upper
85	100		
135	63.3	50.6	76.0

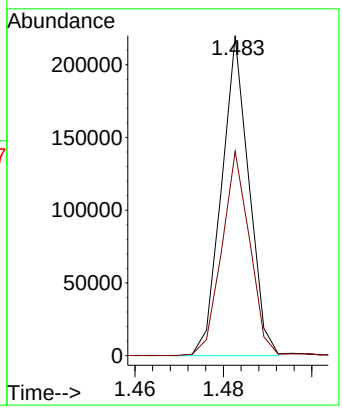




#9
Propene
Concen: 9.488 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 41 Resp: 9448

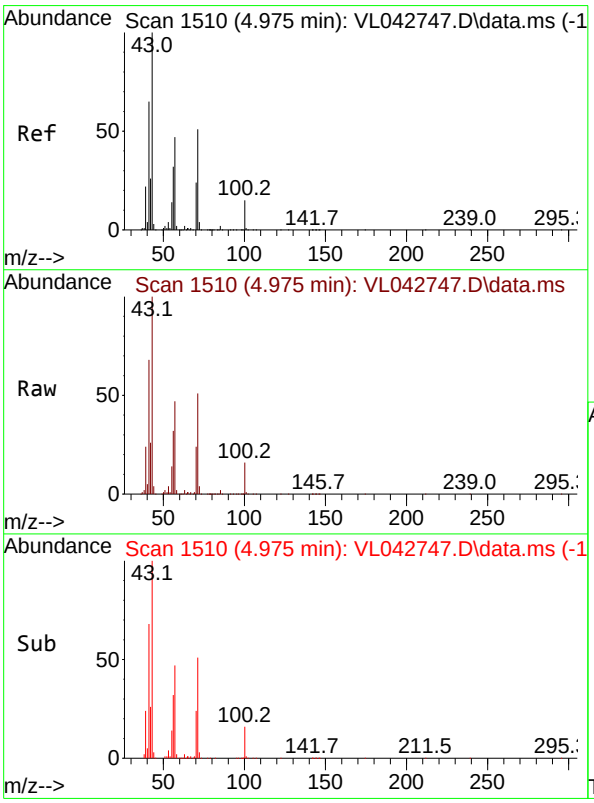
Ion	Ratio	Lower	Upper
41	100		
42	66.5	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

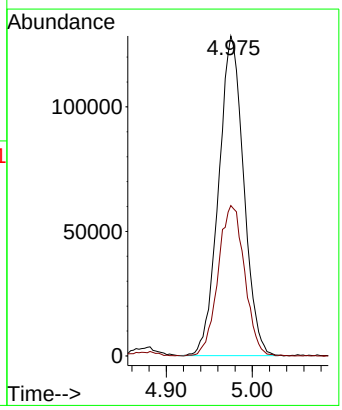
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

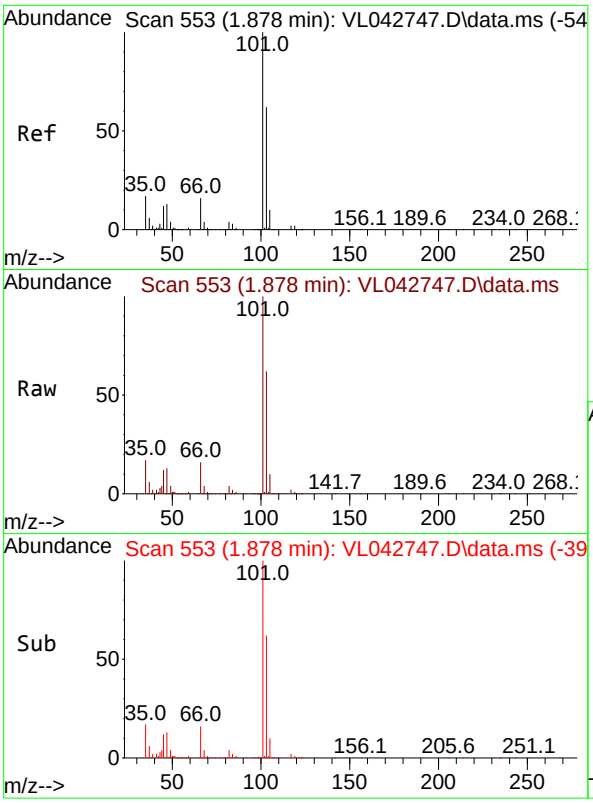


#10
Heptane
Concen: 9.701 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 43 Resp: 259821

Ion	Ratio	Lower	Upper
43	100		
57	49.9	39.9	59.9

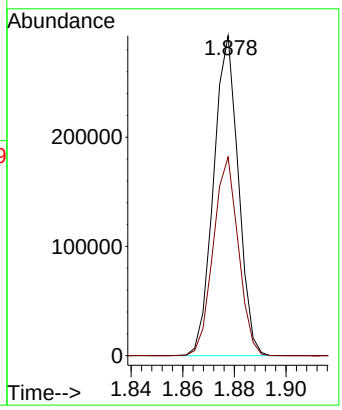




#11
Trichlorofluoromethane
Concen: 8.992 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:101 Resp: 19496

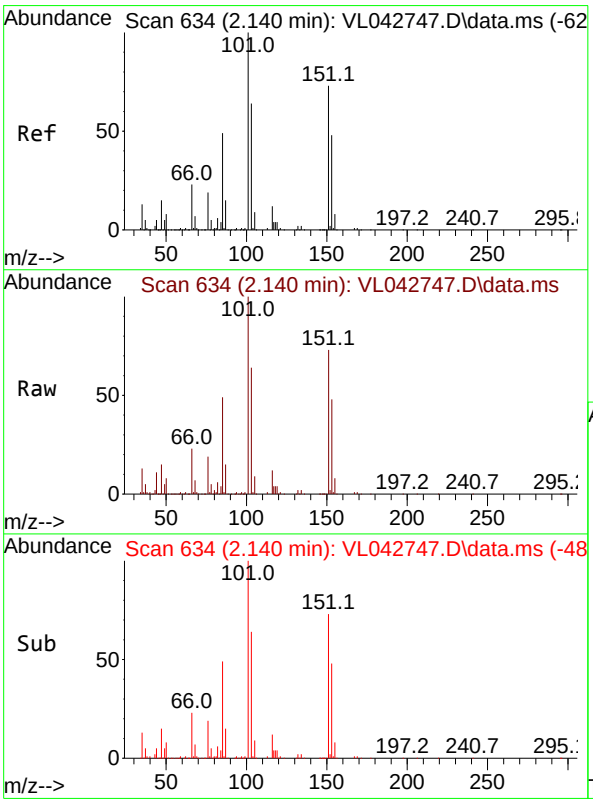
Ion	Ratio	Lower	Upper
101	100		
103	62.0	49.6	74.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

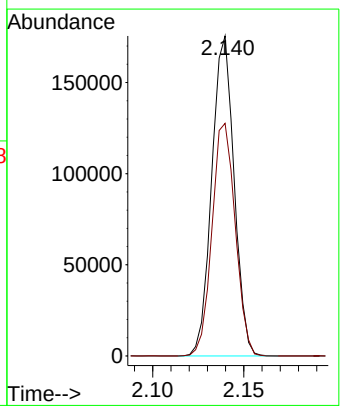
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

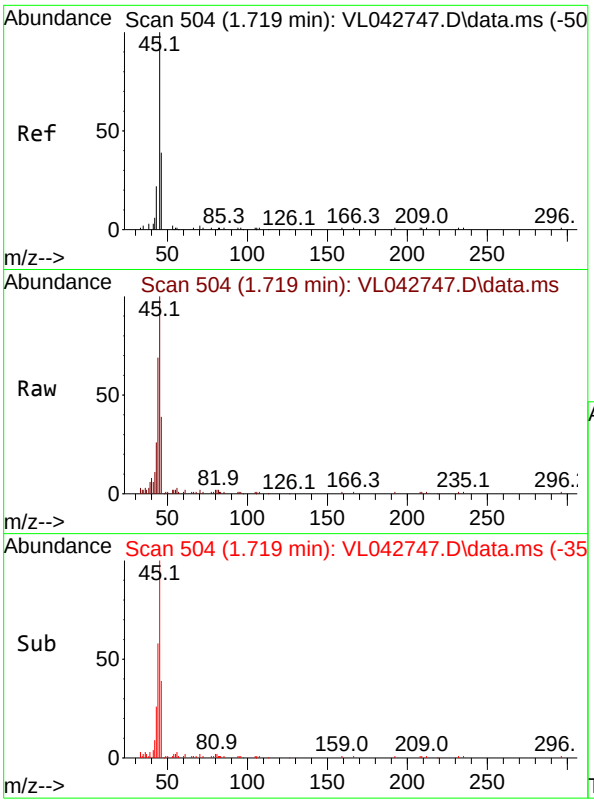


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.081 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:101 Resp: 149612

Ion	Ratio	Lower	Upper
101	100		
151	75.6	60.5	90.7

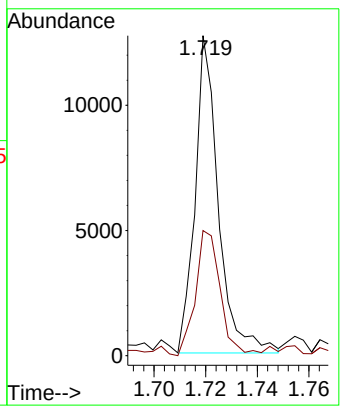




#13
Ethanol
Concen: 9.867 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 45 Resp: 794

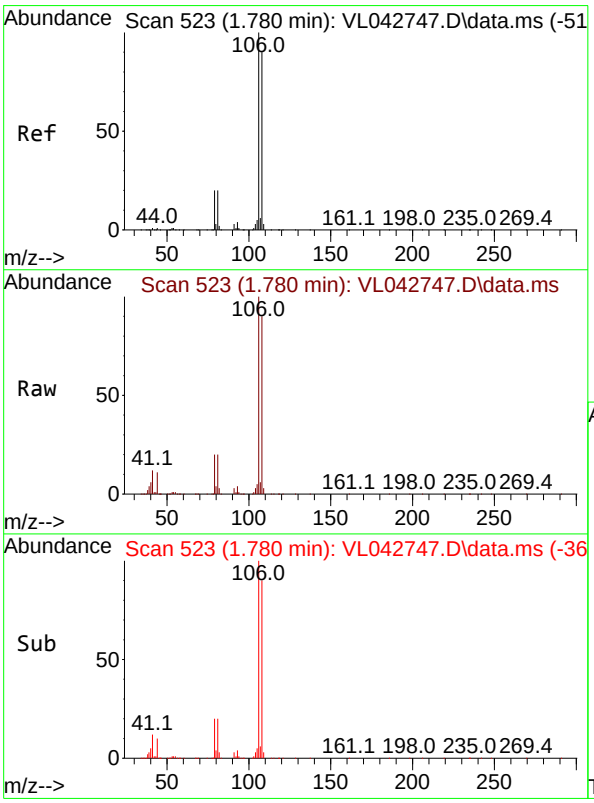
Ion	Ratio	Lower	Upper
45	100		
46	46.5	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

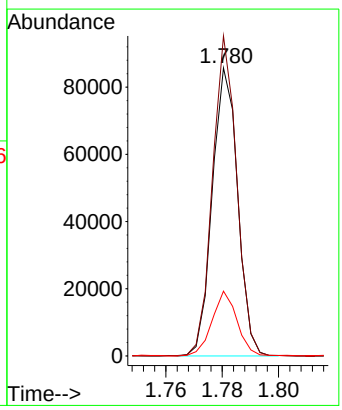
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

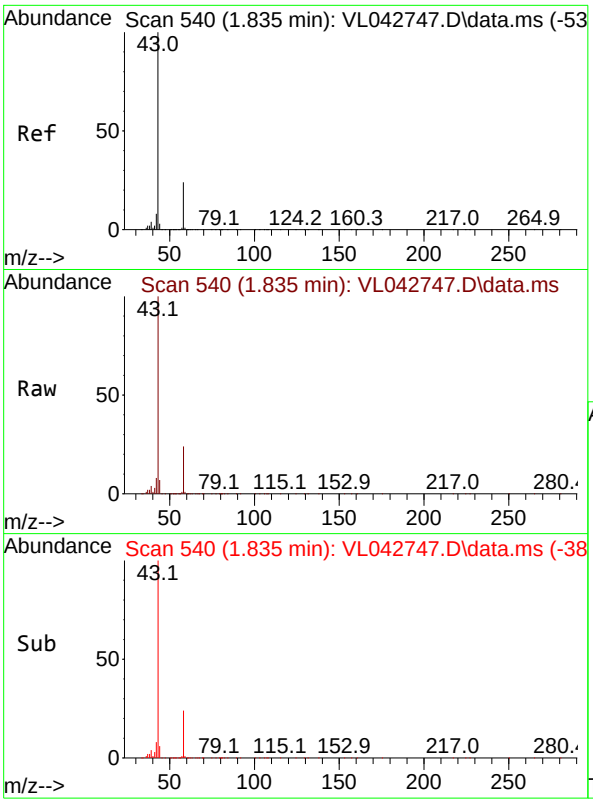


#14
Bromoethene
Concen: 9.193 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:108 Resp: 53625

Ion	Ratio	Lower	Upper
108	100		
106	105.9	84.7	127.1
79	21.8	17.4	26.2

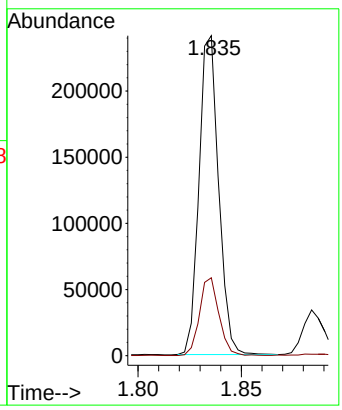




#15
Acetone
Concen: 7.225 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 43 Resp: 15871

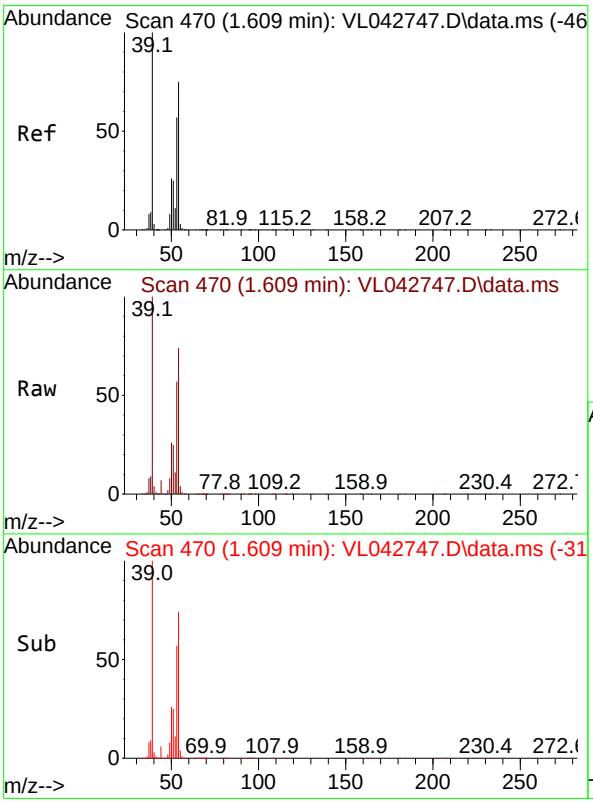
Ion	Ratio	Lower	Upper
43	100		
58	24.8	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

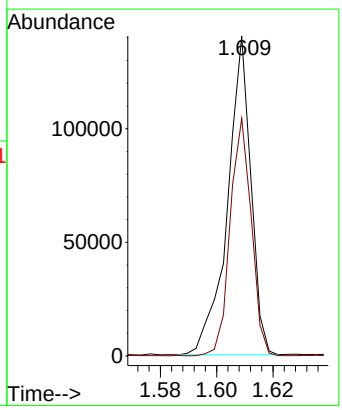
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

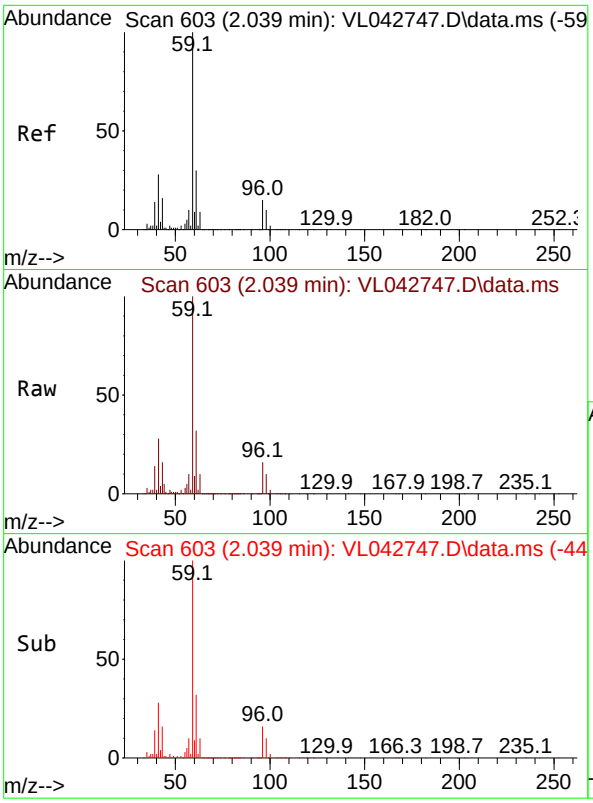


#16
1,3-Butadiene
Concen: 8.642 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 39 Resp: 80968

Ion	Ratio	Lower	Upper
39	100		
54	68.1	54.5	81.7

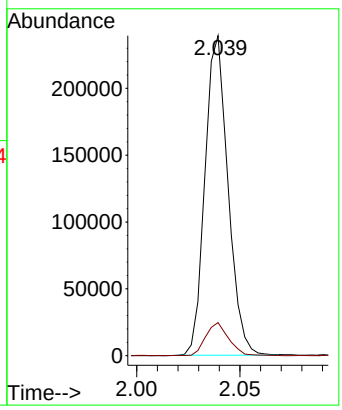




#17
tert-Butyl alcohol
Concen: 9.351 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 59 Resp: 18526

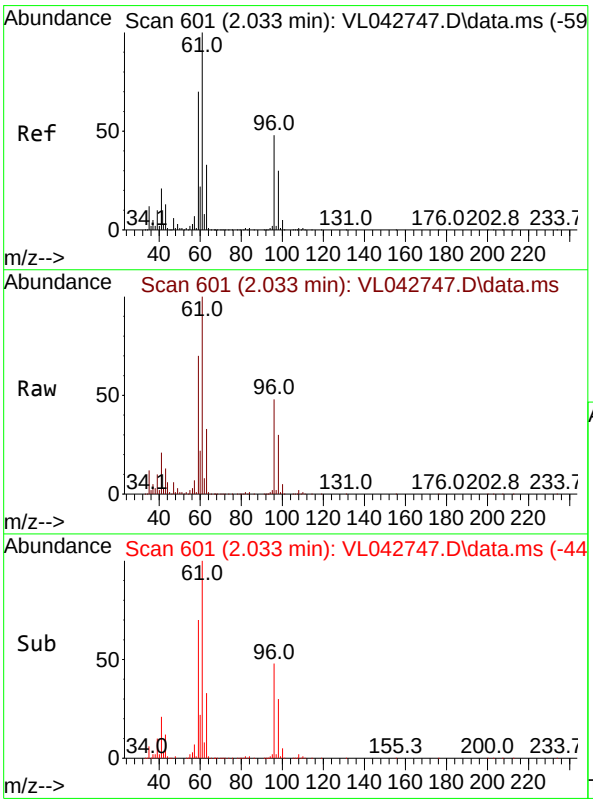
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

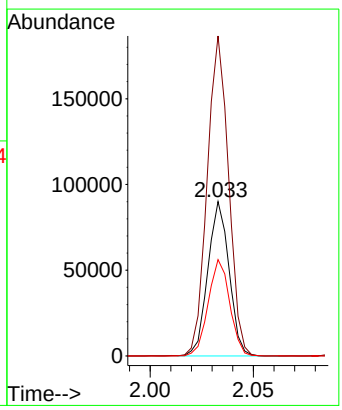
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

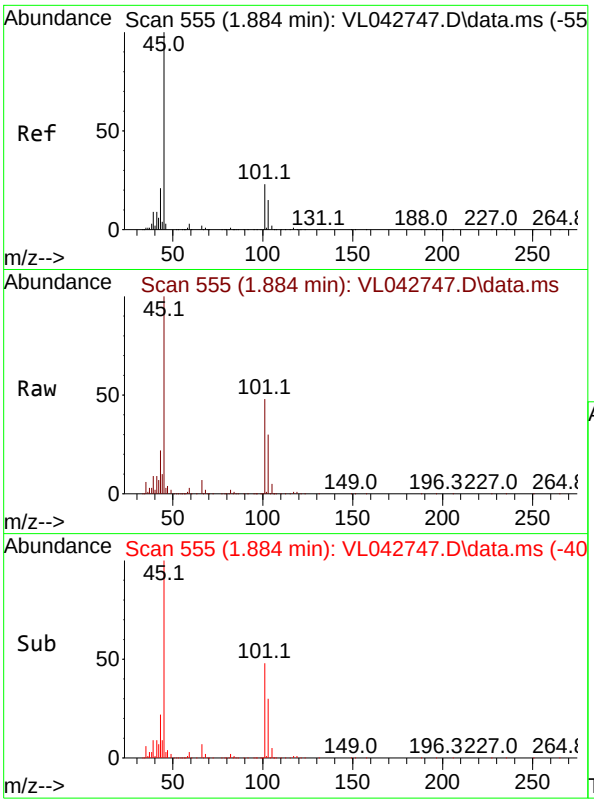


#18
1,1-Dichloroethene
Concen: 8.627 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 96 Resp: 64224

Ion	Ratio	Lower	Upper
96	100		
61	207.2	165.8	248.6
98	62.4	49.9	74.9

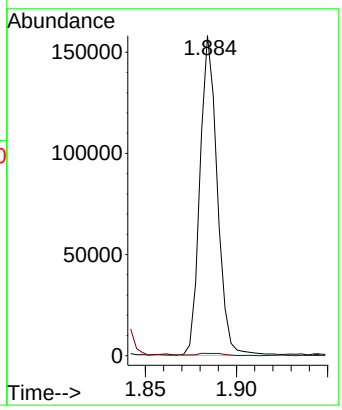




#19
Isopropyl Alcohol
Concen: 8.987 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 45 Resp: 10490

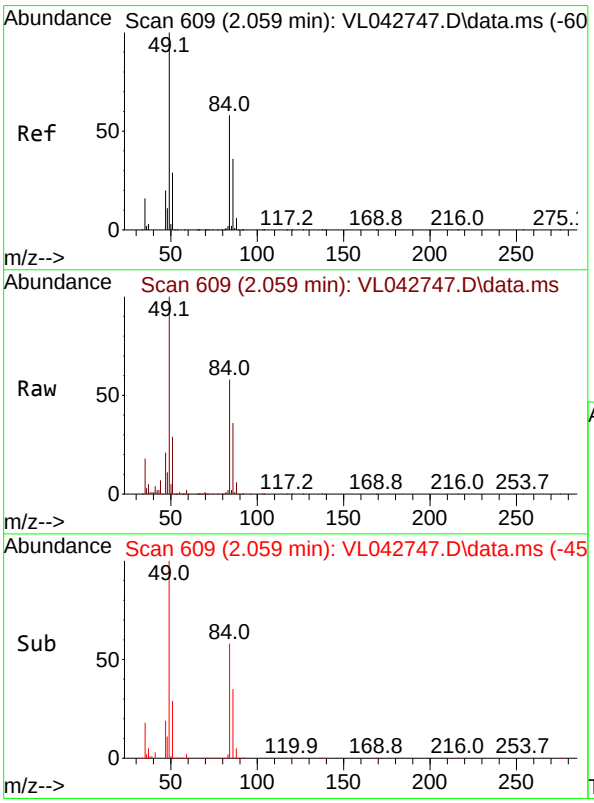
Ion	Ratio	Lower	Upper
45	100		
58	37.5	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

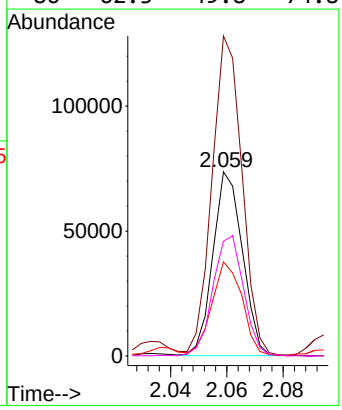
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

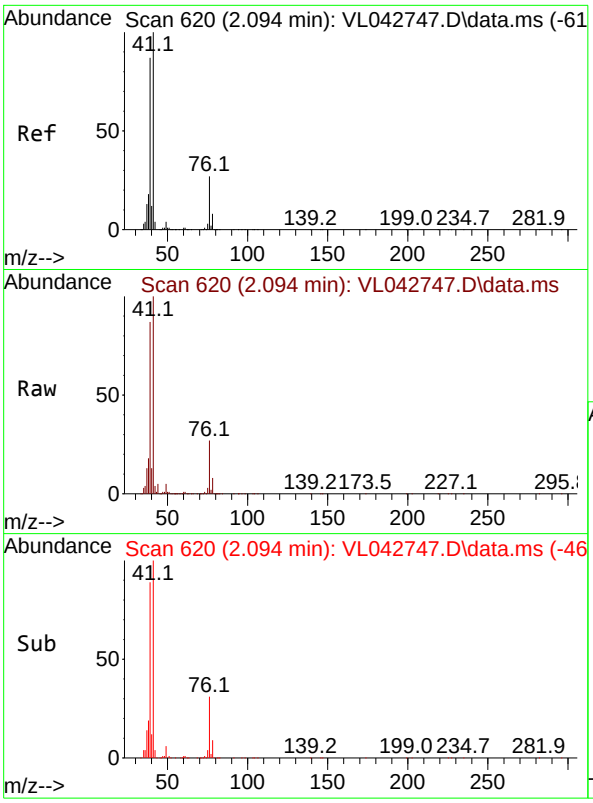


#20
Methylene Chloride
Concen: 7.740 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 84 Resp: 53581

Ion	Ratio	Lower	Upper
84	100		
49	173.3	138.6	208.0
51	50.8	40.6	61.0
86	62.3	49.8	74.8

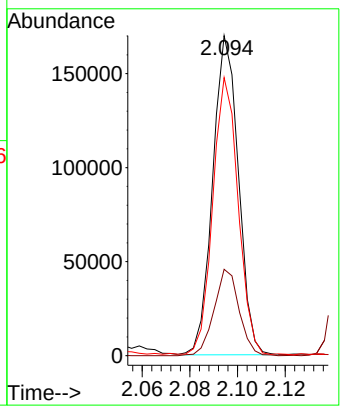




#21
Allyl Chloride
Concen: 9.382 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 41 Resp: 12702

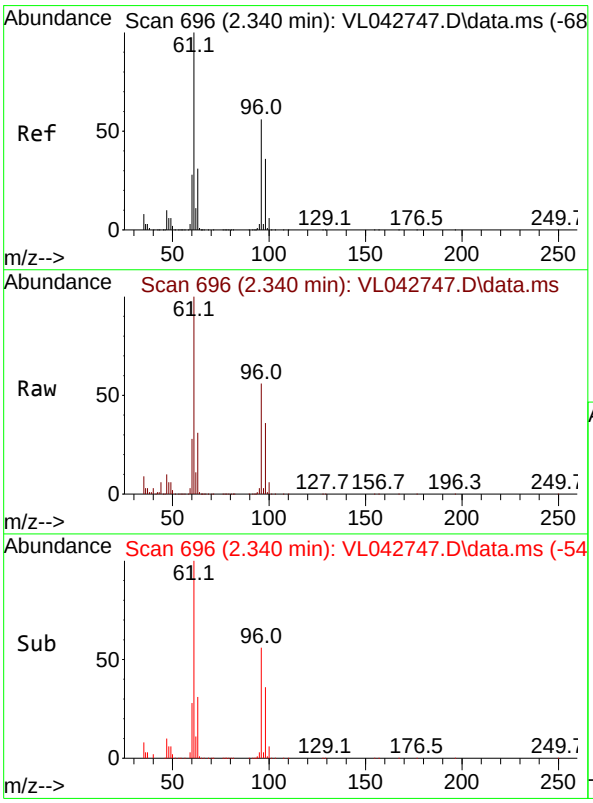
Ion	Ratio	Lower	Upper
41	100		
76	26.4	21.1	31.7
39	85.4	68.3	102.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

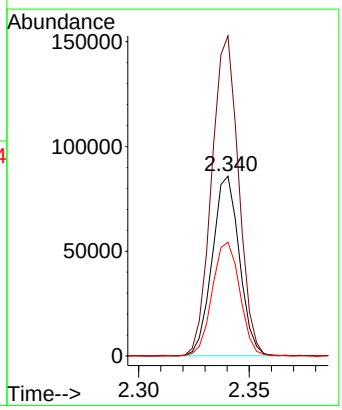
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

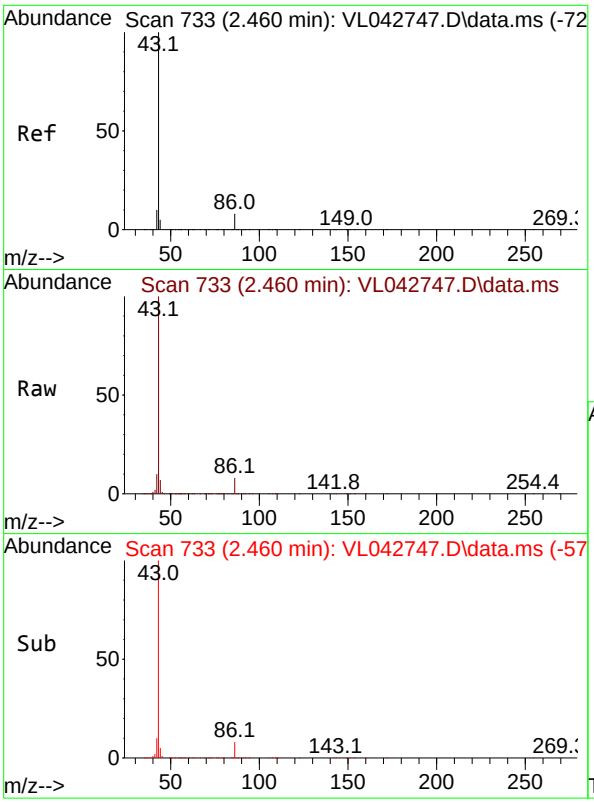


#22
trans-1,2-Dichloroethene
Concen: 9.148 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 96 Resp: 73152

Ion	Ratio	Lower	Upper
96	100		
61	177.9	142.3	213.5
98	63.3	50.6	76.0

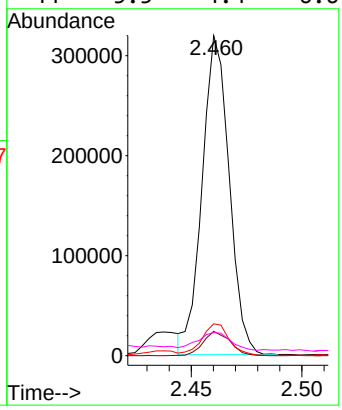




#23
Vinyl Acetate
Concen: 10.181 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 43 Resp: 27112

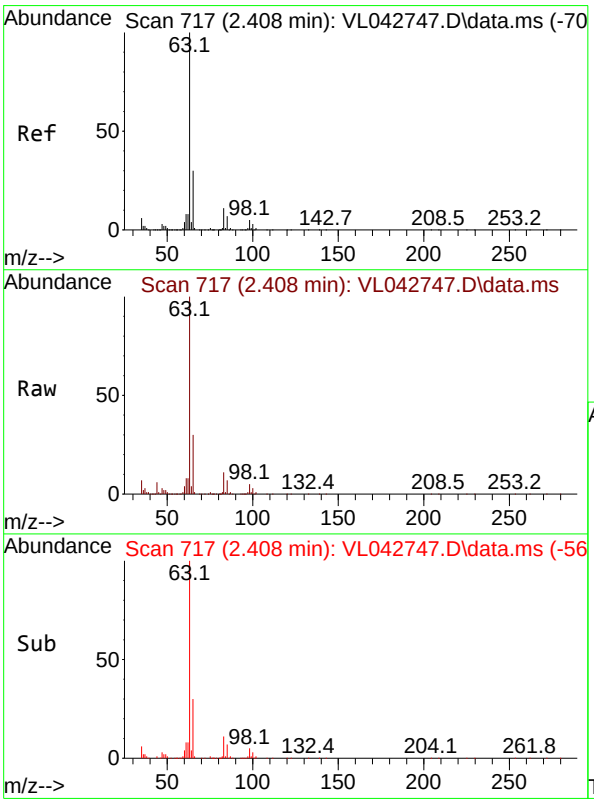
Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.1	9.1
42	9.8	7.8	11.8
44	5.5	4.4	6.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

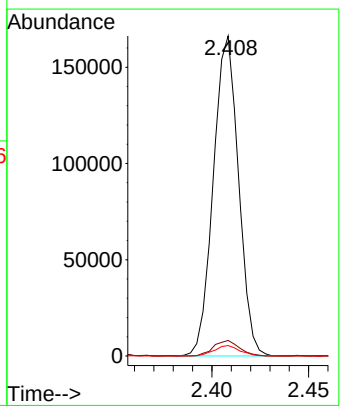
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

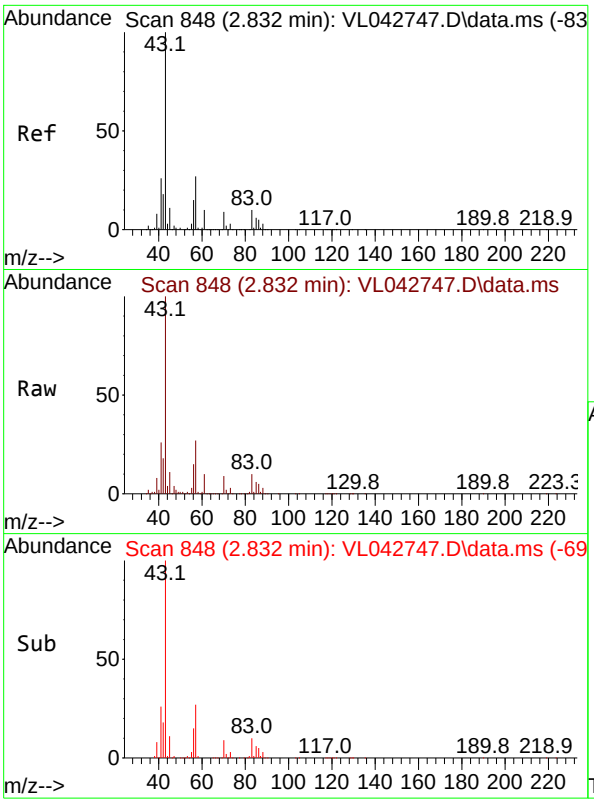


#24
1,1-Dichloroethane
Concen: 9.141 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 63 Resp: 150257

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.5	7.4
100	3.2	1.6	4.8

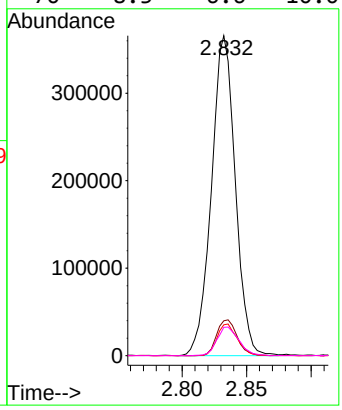




#25
Ethyl Acetate
Concen: 9.666 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 43 Resp: 46999

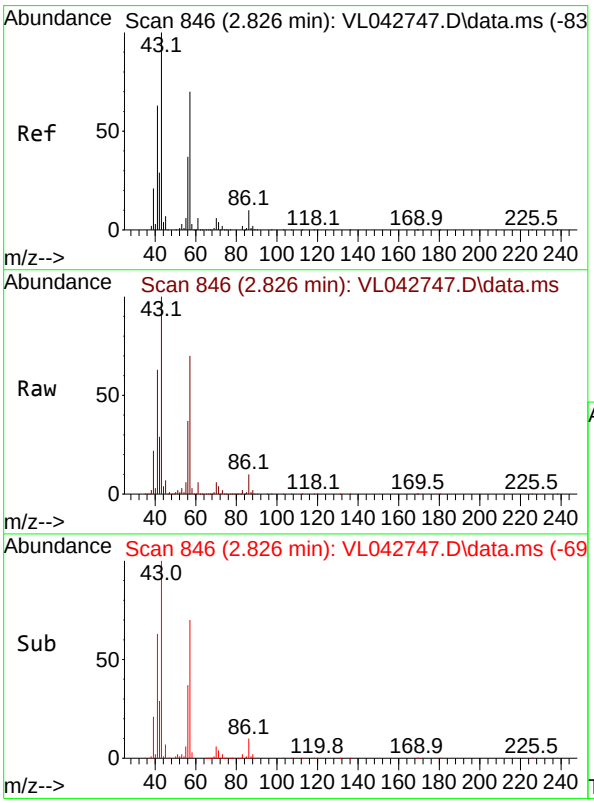
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	8.4	6.7	10.1
70	8.3	6.6	10.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

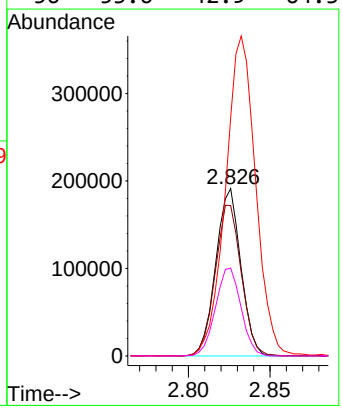
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

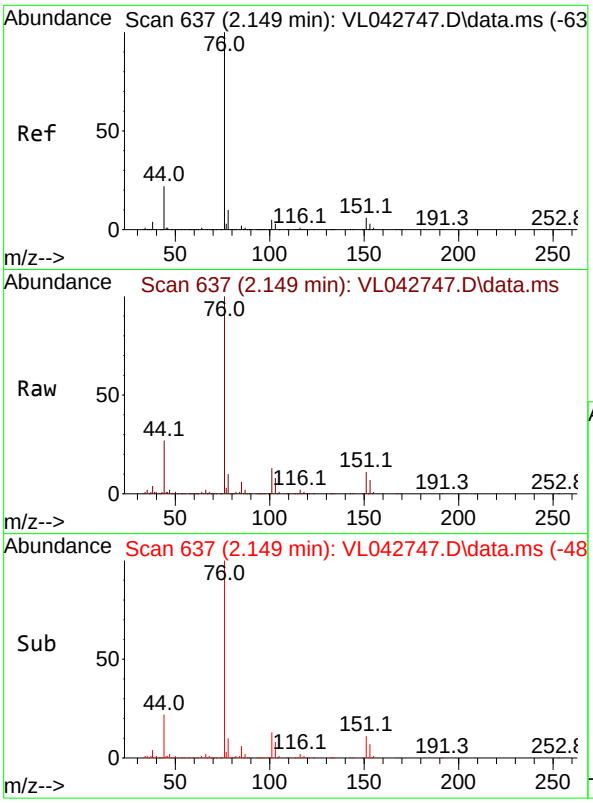


#26
Hexane
Concen: 9.555 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 57 Resp: 203800

Ion	Ratio	Lower	Upper
57	100		
41	94.3	75.4	113.2
43	231.3	185.0	277.6
56	53.6	42.9	64.3

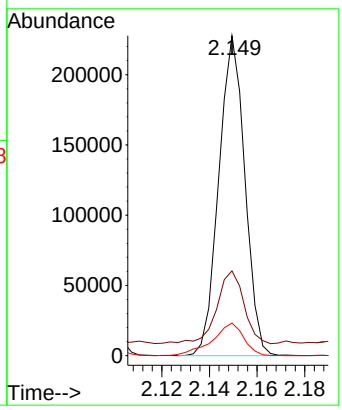




#27
Carbon Disulfide
Concen: 9.480 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 76 Resp: 17310

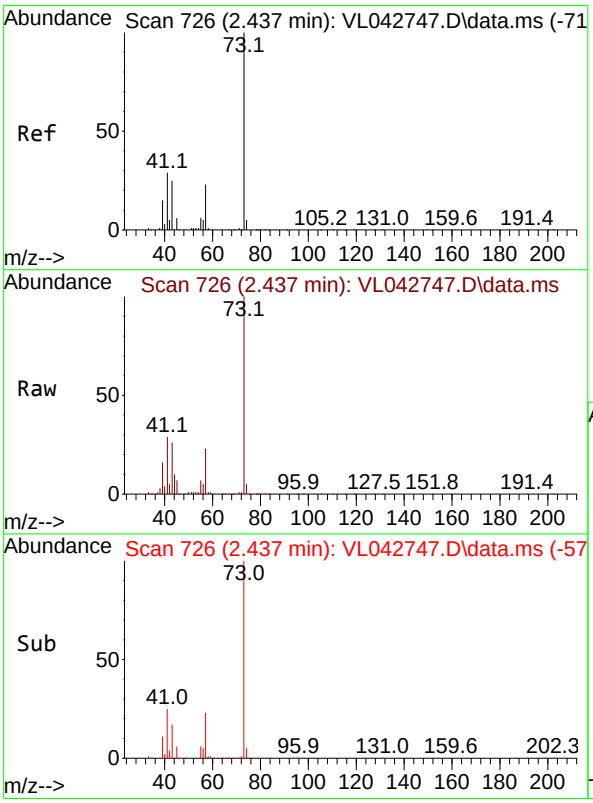
Ion	Ratio	Lower	Upper
76	100		
44	24.1	19.3	28.9
78	12.4	9.9	14.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

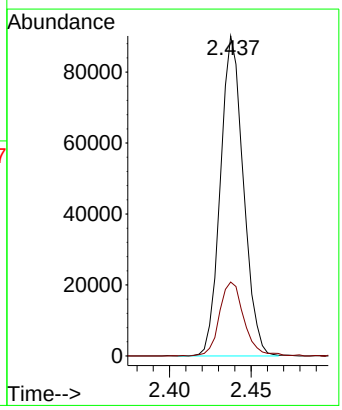
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

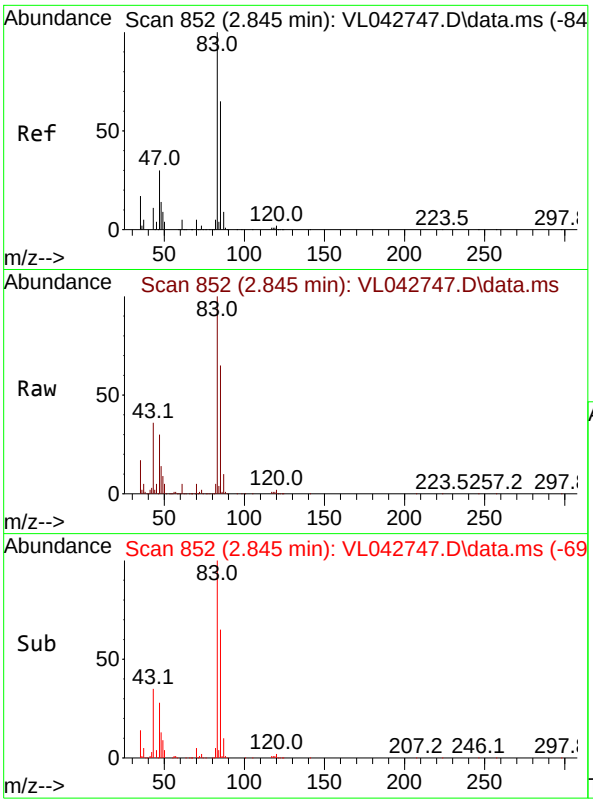


#28
Methyl tert-Butyl Ether
Concen: 8.770 ppbv
RT: 2.437 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 73 Resp: 88372

Ion	Ratio	Lower	Upper
73	100		
57	24.8	19.8	29.8





#29
Chloroform
Concen: 9.244 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

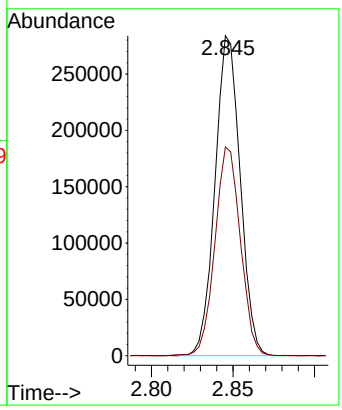
Tgt Ion: 83 Resp: 30467

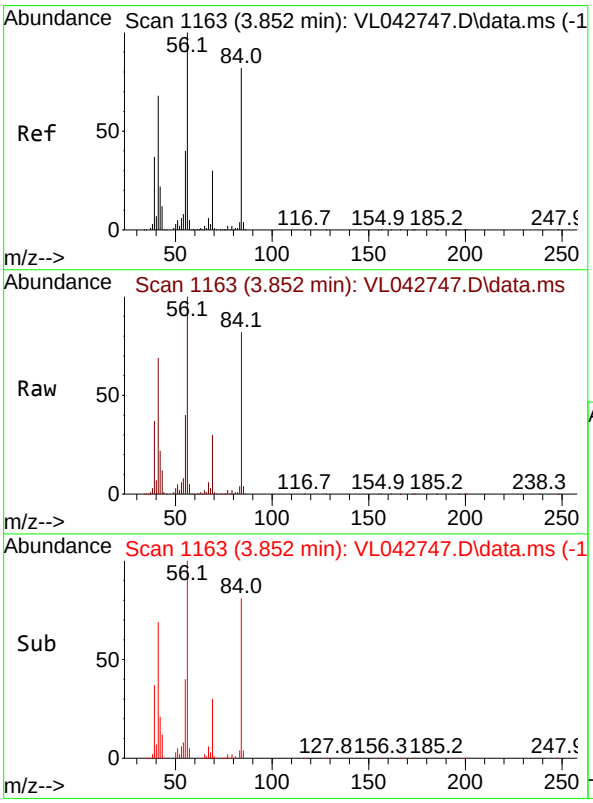
Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.2	78.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

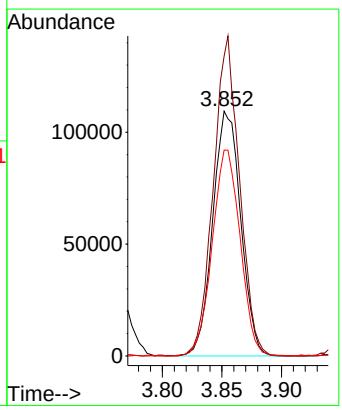


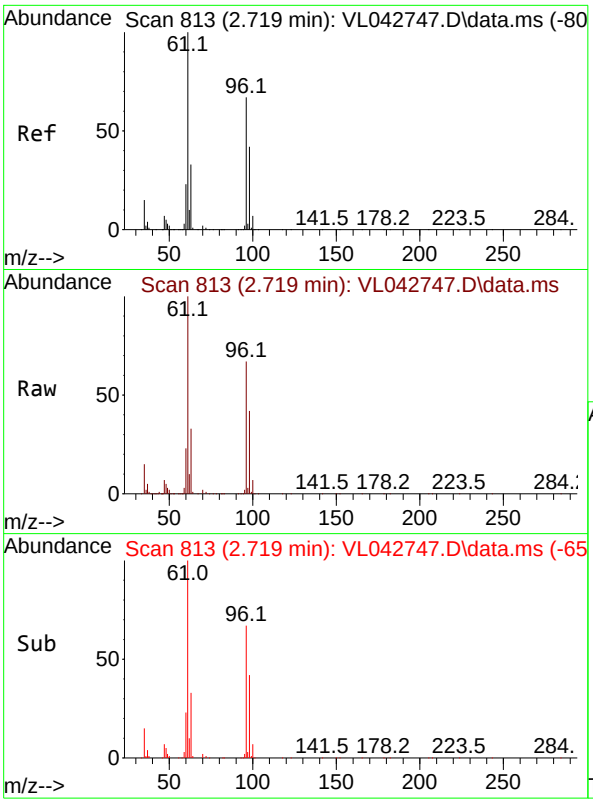


#30
Cyclohexane
Concen: 9.892 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 84 Resp: 178948

Ion	Ratio	Lower	Upper
84	100		
56	121.9	97.5	146.3
41	84.0	67.2	100.8

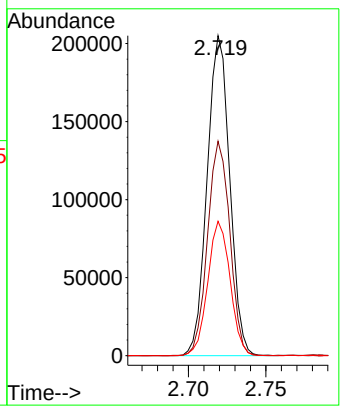




#31
cis-1,2-Dichloroethene
Concen: 9.479 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 61 Resp: 20775

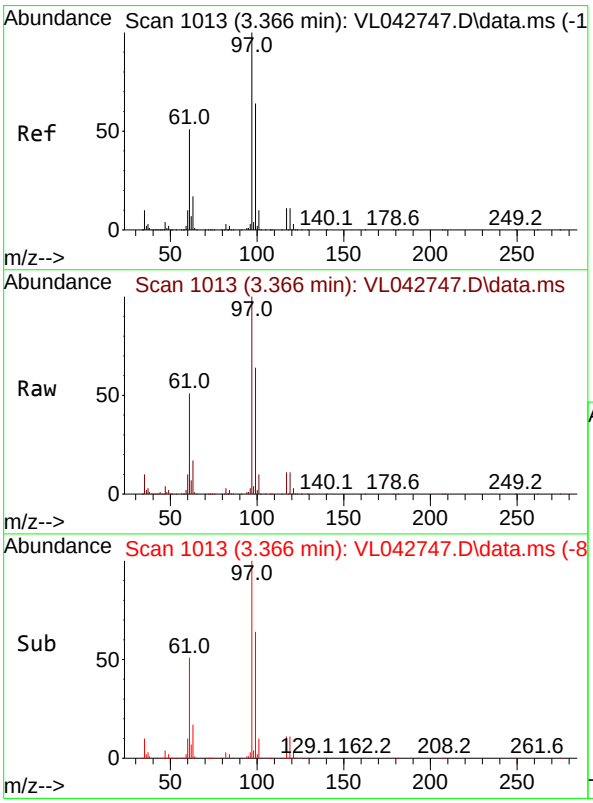
Ion	Ratio	Lower	Upper
61	100		
96	66.9	53.5	80.3
98	42.0	33.6	50.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

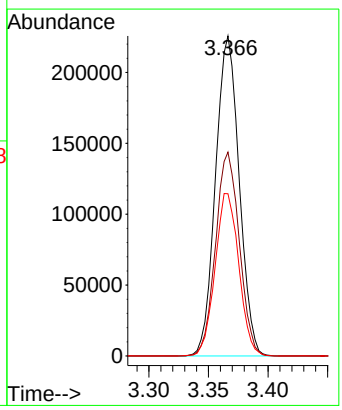
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

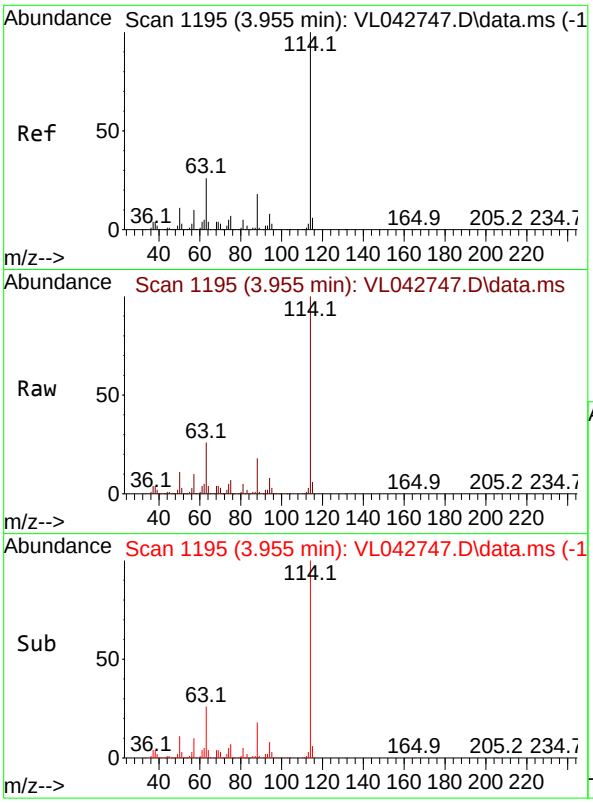


#32
1,1,1-Trichloroethane
Concen: 9.069 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 97 Resp: 311368

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	51.1	40.9	61.3

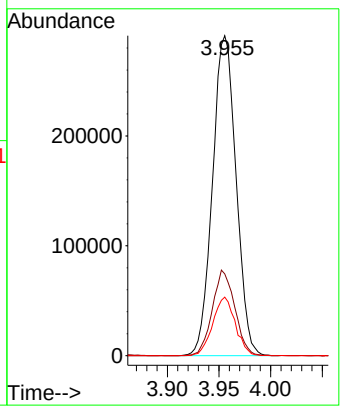




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:114 Resp: 46276

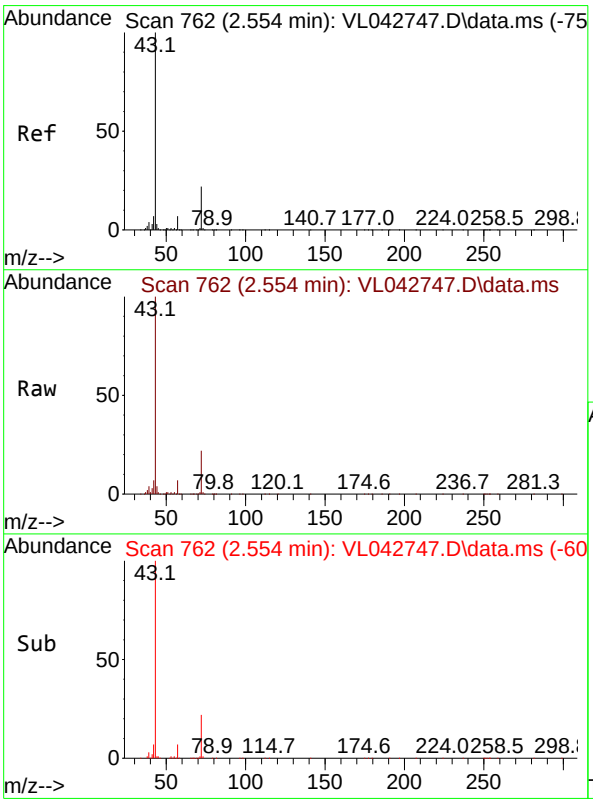
Ion	Ratio	Lower	Upper
114	100		
63	25.6	20.5	30.7
88	17.5	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

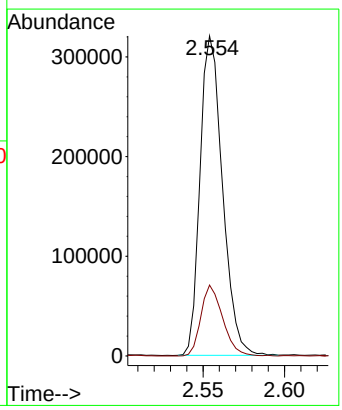
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

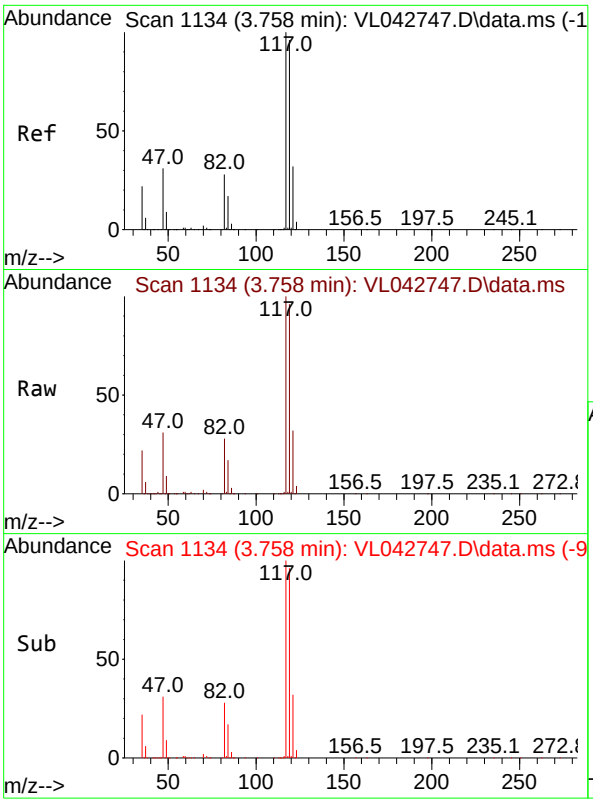


#34
2-Butanone
Concen: 9.361 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 43 Resp: 306858

Ion	Ratio	Lower	Upper
43	100		
72	21.7	17.4	26.0

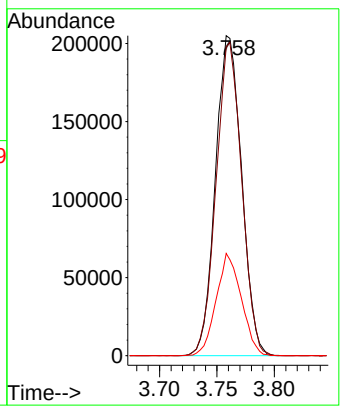




#35
Carbon Tetrachloride
Concen: 9.436 ppbv
RT: 3.758 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:117 Resp: 32450

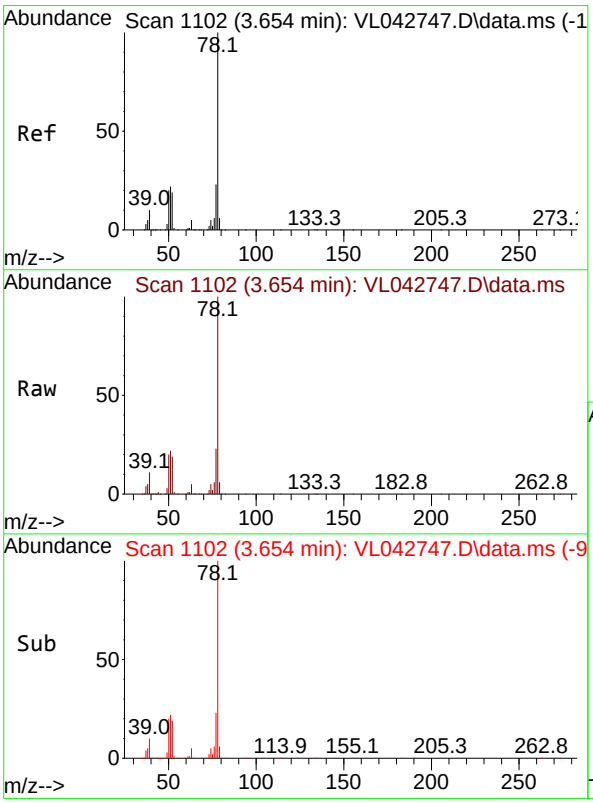
Ion	Ratio	Lower	Upper
117	100		
119	96.4	77.1	115.7
121	31.9	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

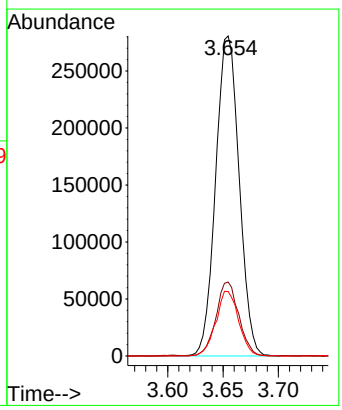
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

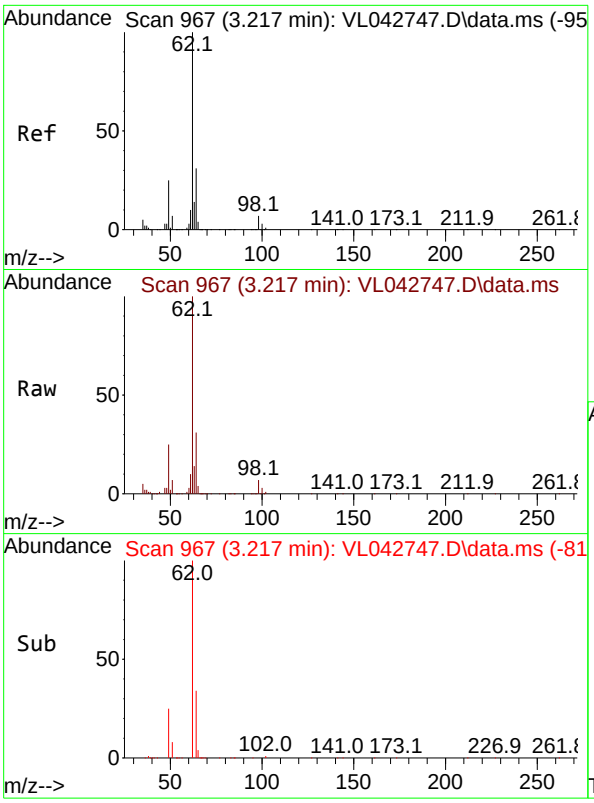


#36
Benzene
Concen: 9.459 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 78 Resp: 414863

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.5	27.7
50	20.2	16.2	24.2

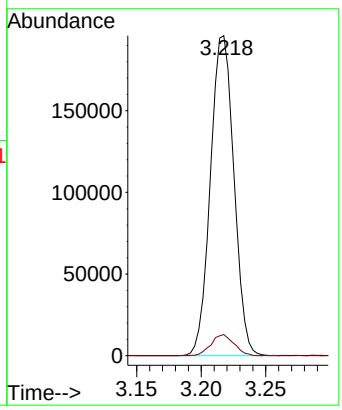




#37
1,2-Dichloroethane
Concen: 9.403 ppbv
RT: 3.217 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 62 Resp: 24841

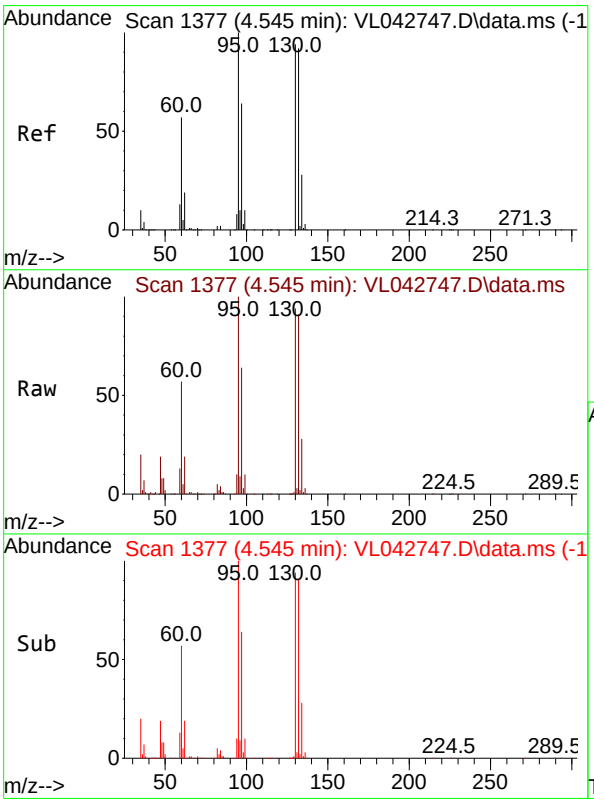
Ion	Ratio	Lower	Upper
62	100		
98	6.5	5.2	7.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

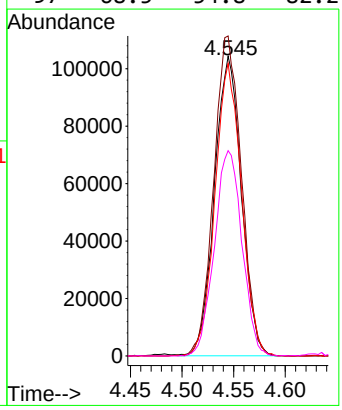
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

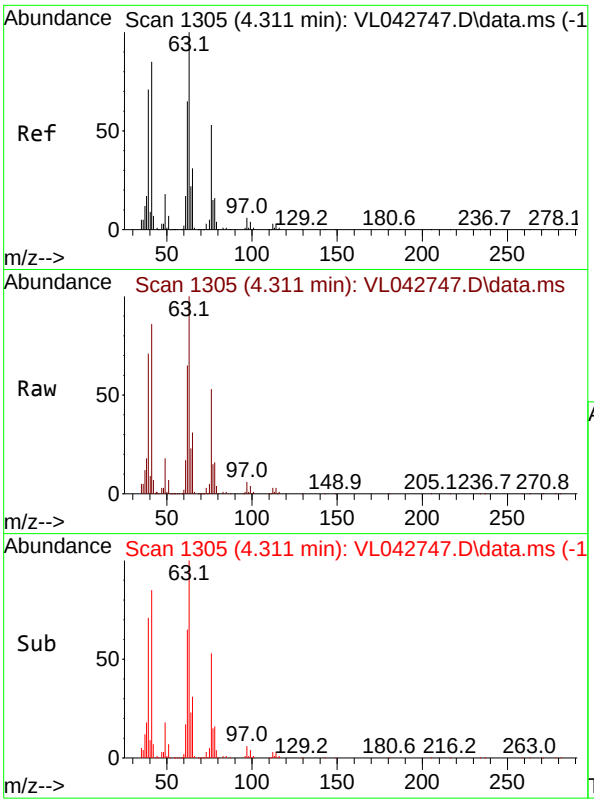


#38
Trichloroethene
Concen: 8.926 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:130 Resp: 188750

Ion	Ratio	Lower	Upper
130	100		
95	106.8	85.4	128.2
132	97.7	78.2	117.2
97	68.5	54.8	82.2

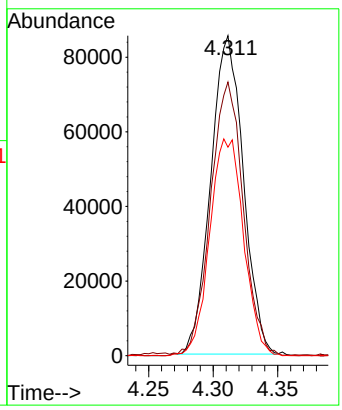




#39
1,2-Dichloropropane
Concen: 9.251 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 63 Resp: 14977

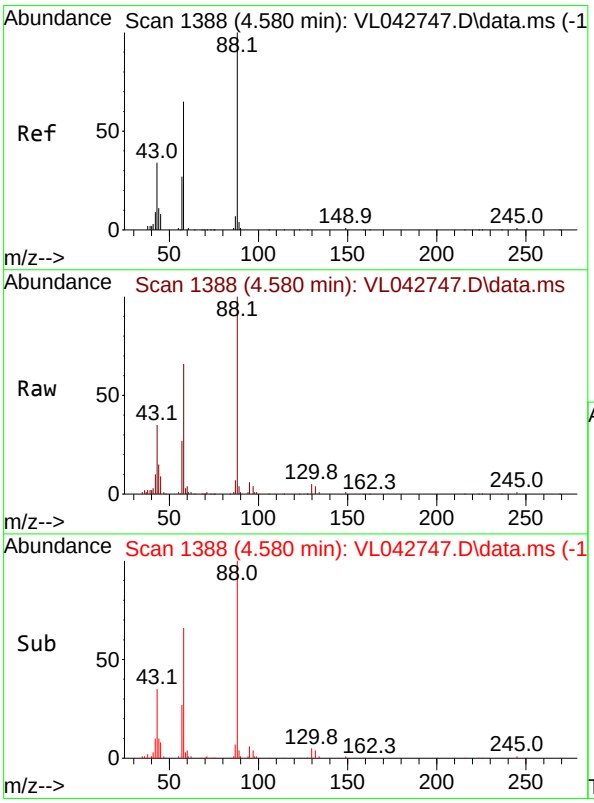
Ion	Ratio	Lower	Upper
63	100		
41	85.3	68.2	102.4
62	65.0	52.0	78.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

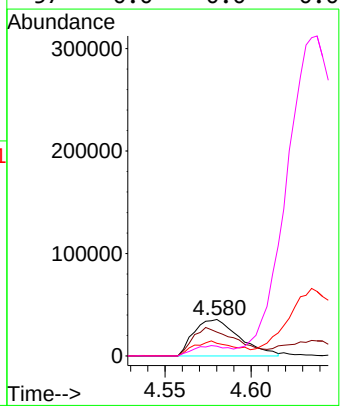
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

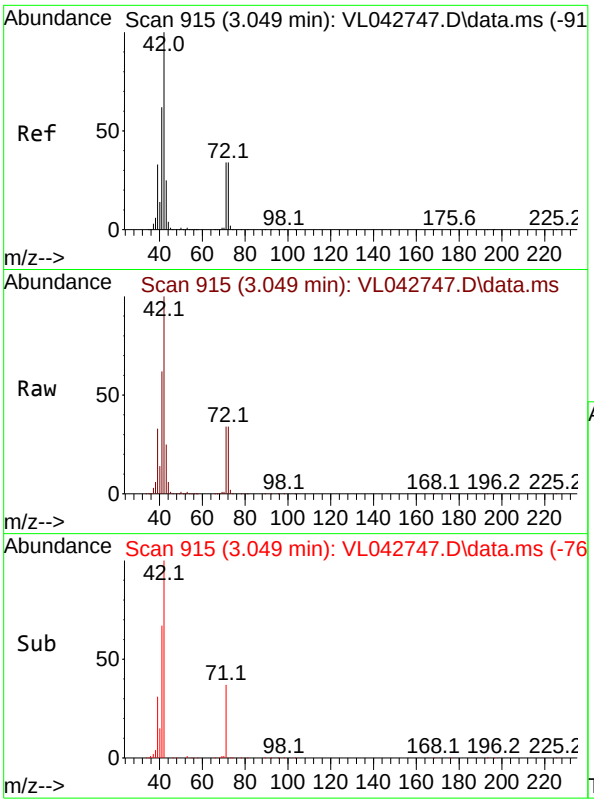


#40
1,4-Dioxane
Concen: 8.569 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 88 Resp: 65413

Ion	Ratio	Lower	Upper
88	100		
58	73.5	58.8	88.2
43	36.1	28.9	43.3
57	0.0	0.0	0.0

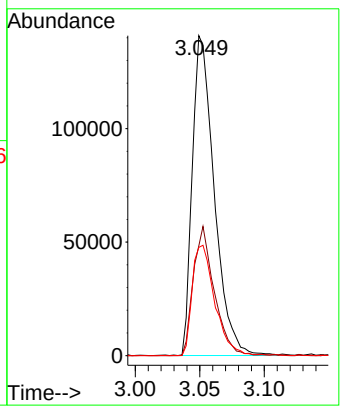




#41
Tetrahydrofuran
Concen: 10.160 ppbv
RT: 3.049 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 42 Resp: 16732

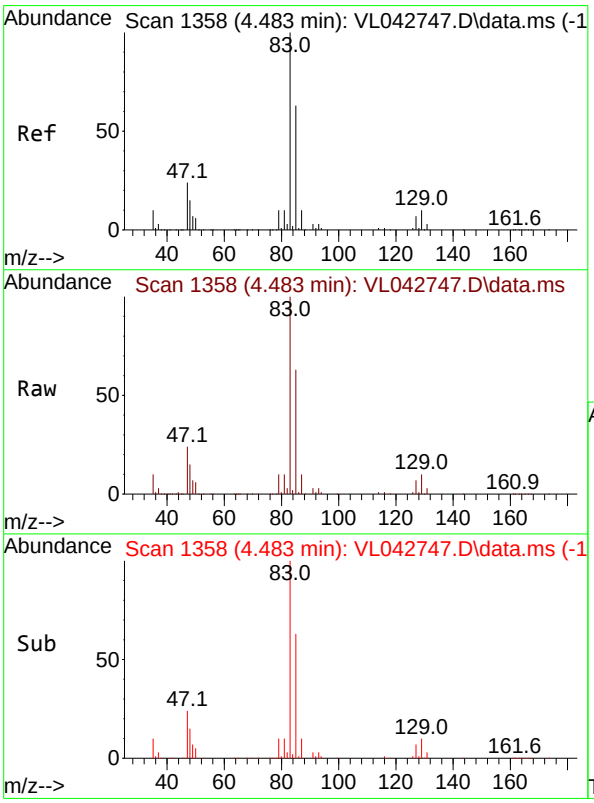
Ion	Ratio	Lower	Upper
42	100		
72	38.6	30.9	46.3
71	35.8	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

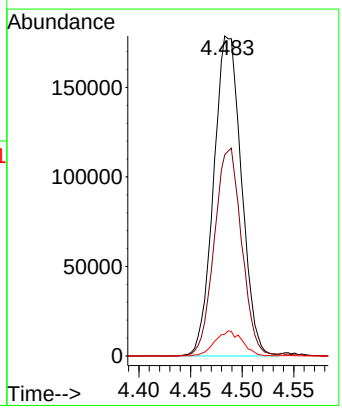
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

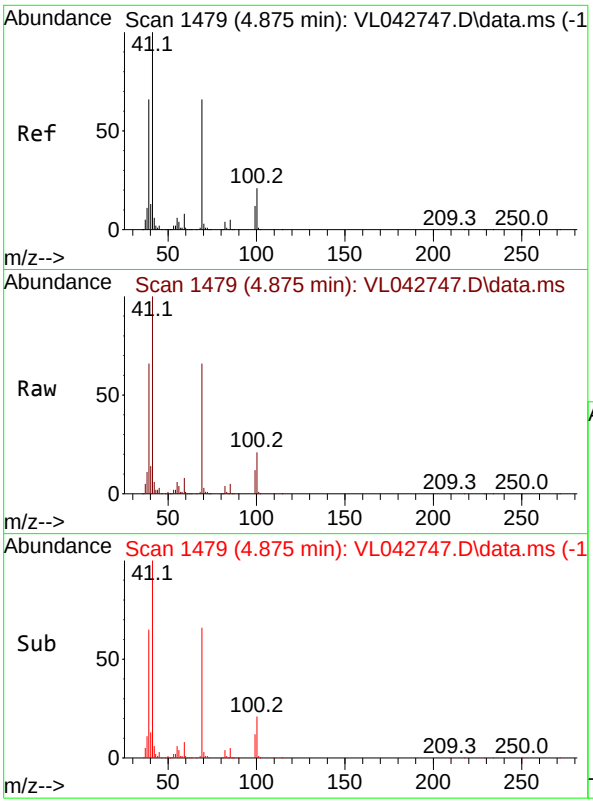


#42
Bromodichloromethane
Concen: 9.713 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 83 Resp: 334531

Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.2	75.4
127	6.8	5.4	8.2

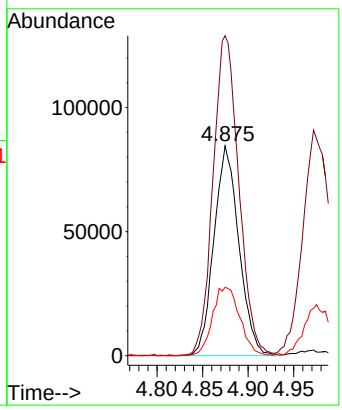




#43
Methyl Methacrylate
Concen: 10.331 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 69 Resp: 16105

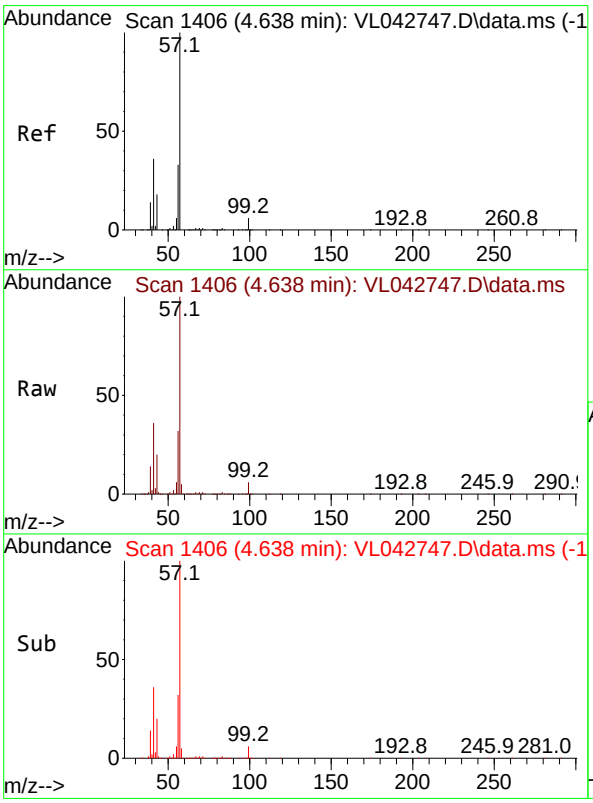
Ion	Ratio	Lower	Upper
69	100		
41	157.1	125.7	188.5
100	35.7	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

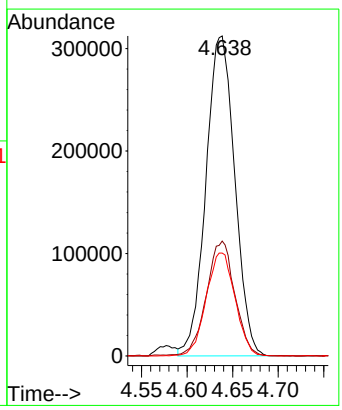
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

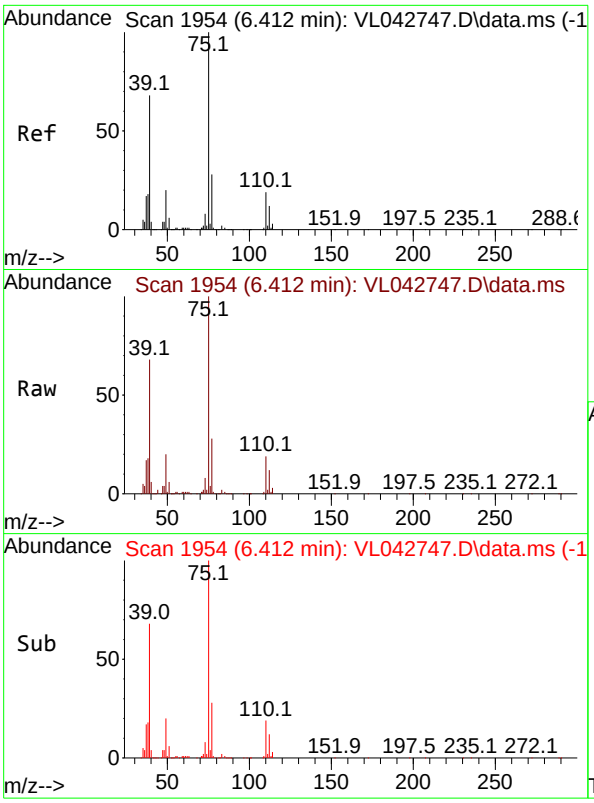


#44
2,2,4-Trimethylpentane
Concen: 9.623 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 57 Resp: 687885

Ion	Ratio	Lower	Upper
57	100		
41	35.4	28.3	42.5
56	32.2	25.8	38.6

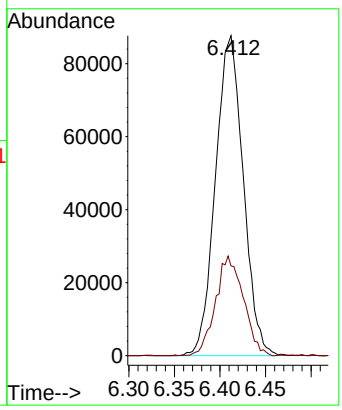




#45
t-1,3-Dichloropropene
Concen: 10.633 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 75 Resp: 18596

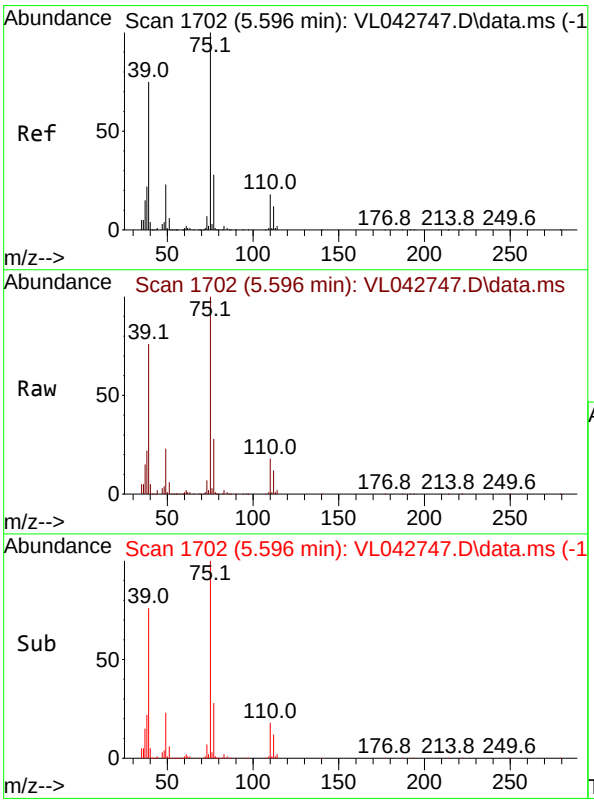
Ion	Ratio	Lower	Upper
75	100		
77	28.0	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

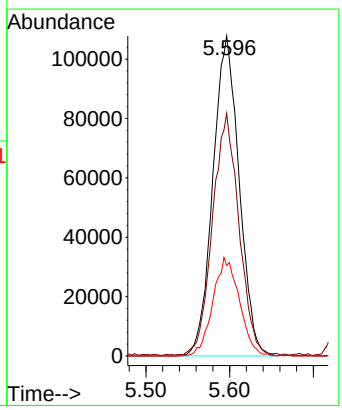
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

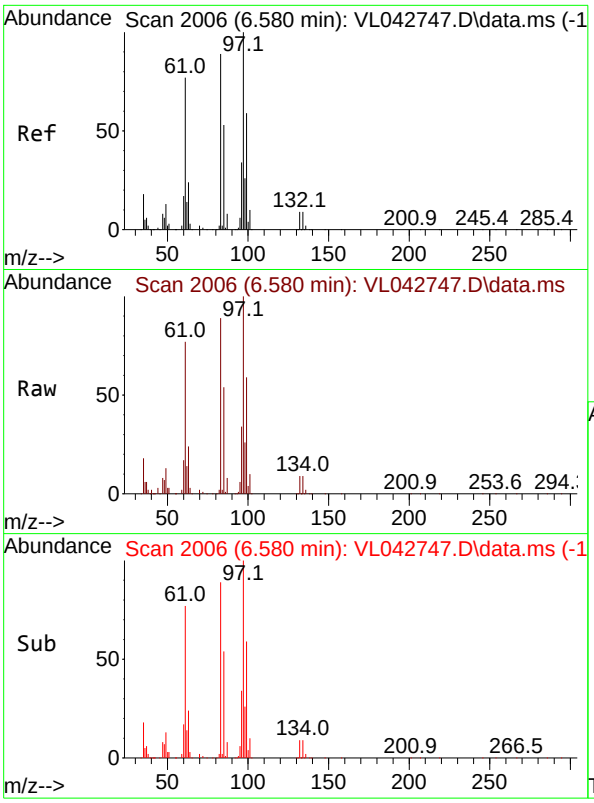


#46
cis-1,3-Dichloropropene
Concen: 10.587 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 75 Resp: 234594

Ion	Ratio	Lower	Upper
75	100		
39	75.2	60.2	90.2
77	28.3	22.6	34.0

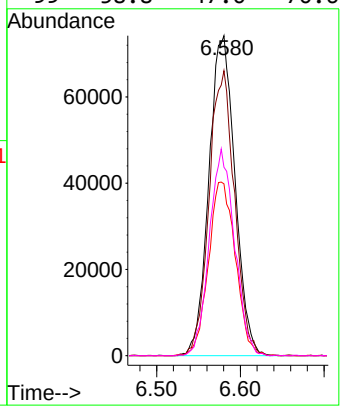




#47
1,1,2-Trichloroethane
Concen: 9.297 ppbv
RT: 6.580 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 97 Resp: 16043

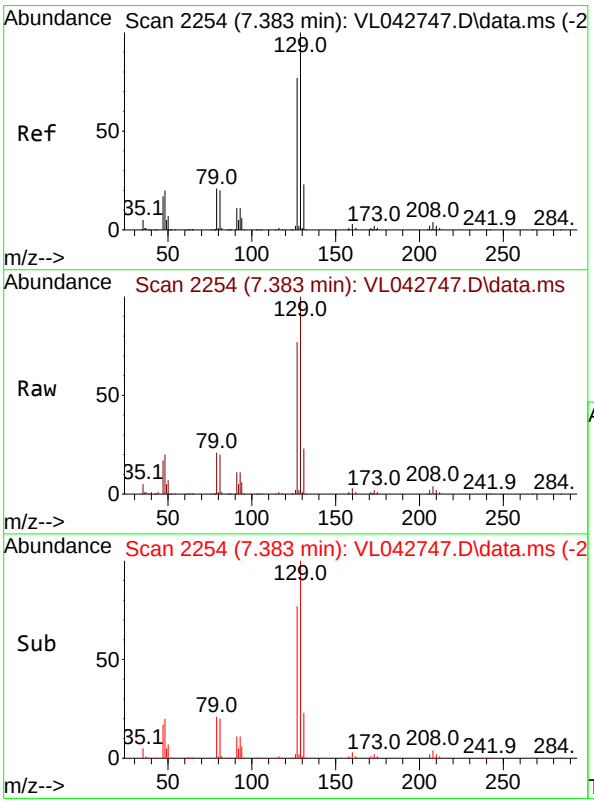
Ion	Ratio	Lower	Upper
97	100		
83	88.9	71.1	106.7
85	53.7	43.0	64.4
99	58.8	47.0	70.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

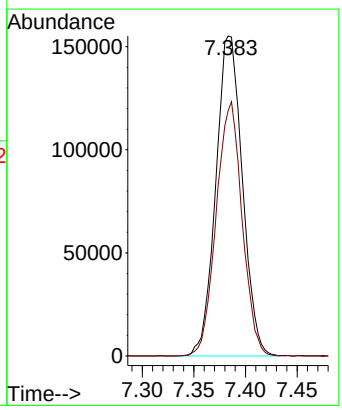
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

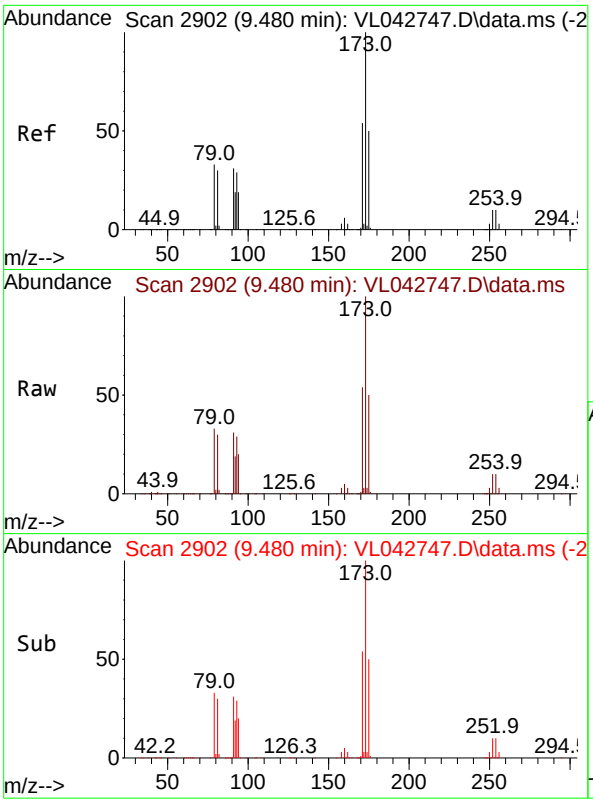


#48
Dibromochloromethane
Concen: 10.141 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:129 Resp: 277832

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.7	116.1

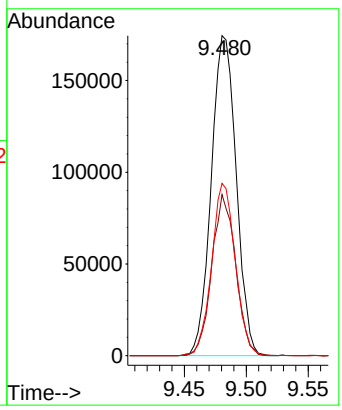




#49
Bromoform
Concen: 10.256 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:173 Resp: 24499

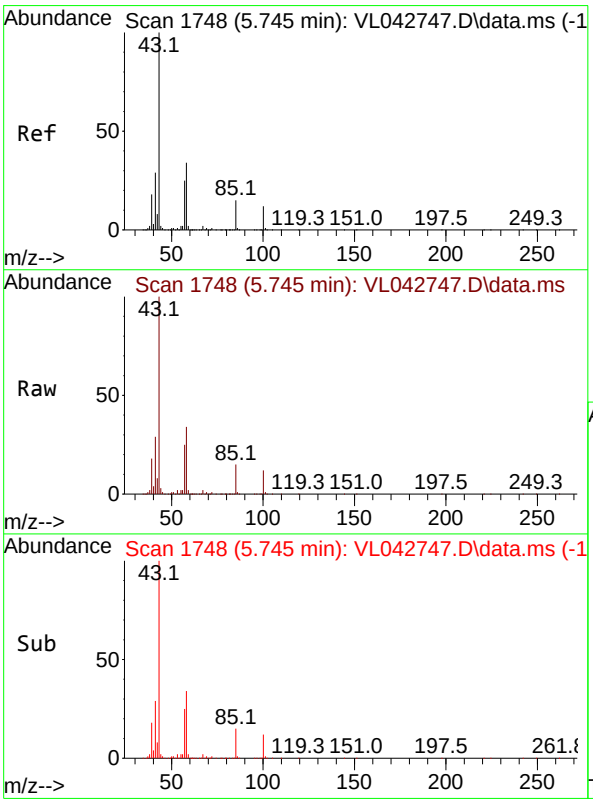
Ion	Ratio	Lower	Upper
173	100		
175	48.0	38.4	57.6
171	51.1	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

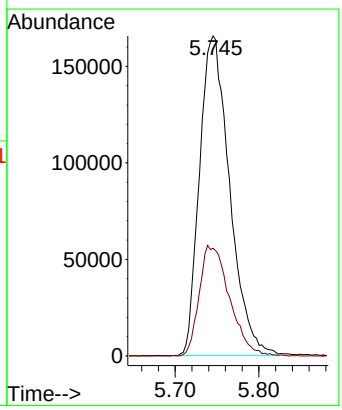
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

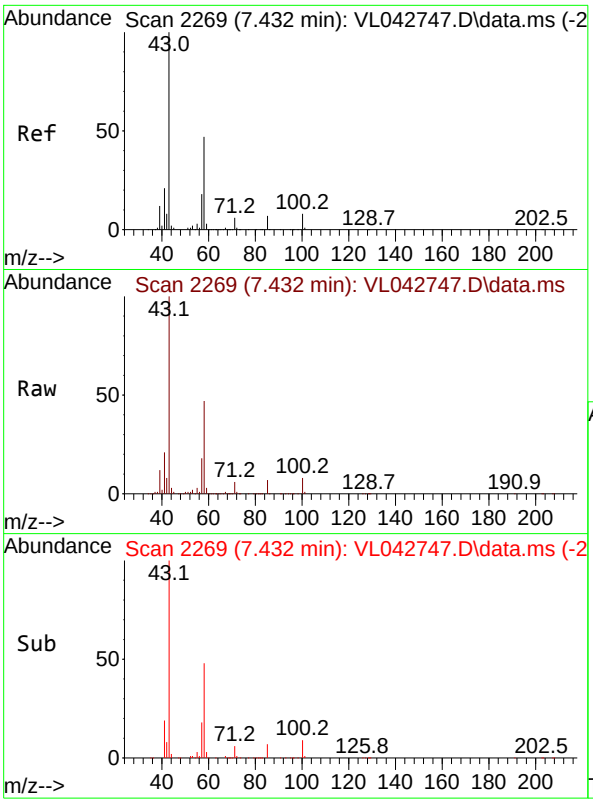


#50
4-Methyl-2-Pentanone
Concen: 9.914 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 43 Resp: 413966

Ion	Ratio	Lower	Upper
43	100		
58	34.8	27.8	41.8





#51
2-Hexanone
Concen: 10.532 ppbv
RT: 7.432 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

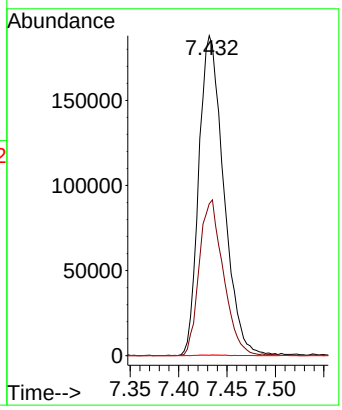
Tgt Ion: 43 Resp: 33604

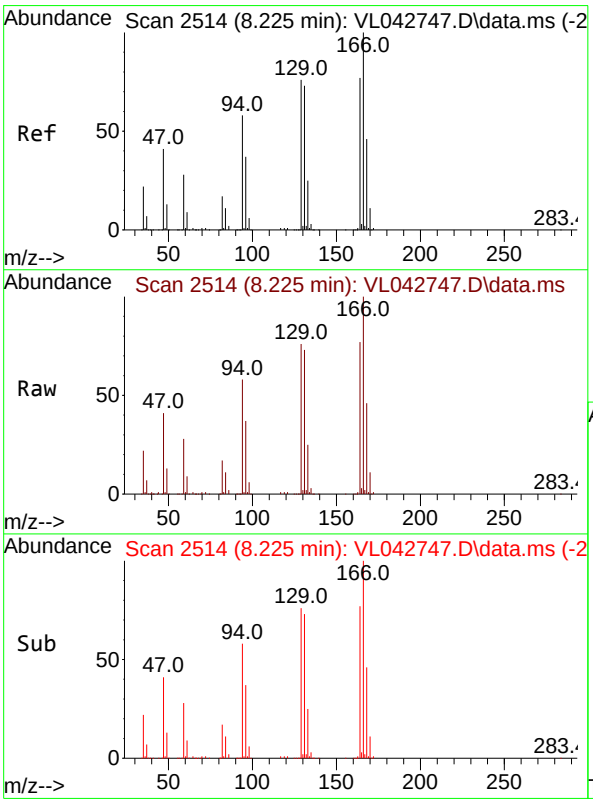
Ion	Ratio	Lower	Upper
43	100		
58	47.5	38.0	57.0
98	0.3	0.2	0.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

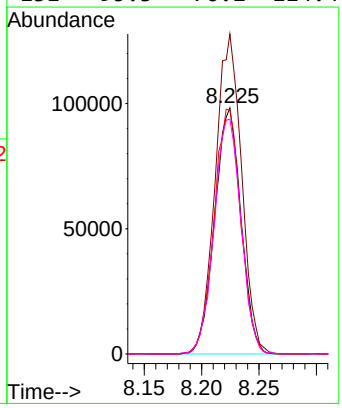


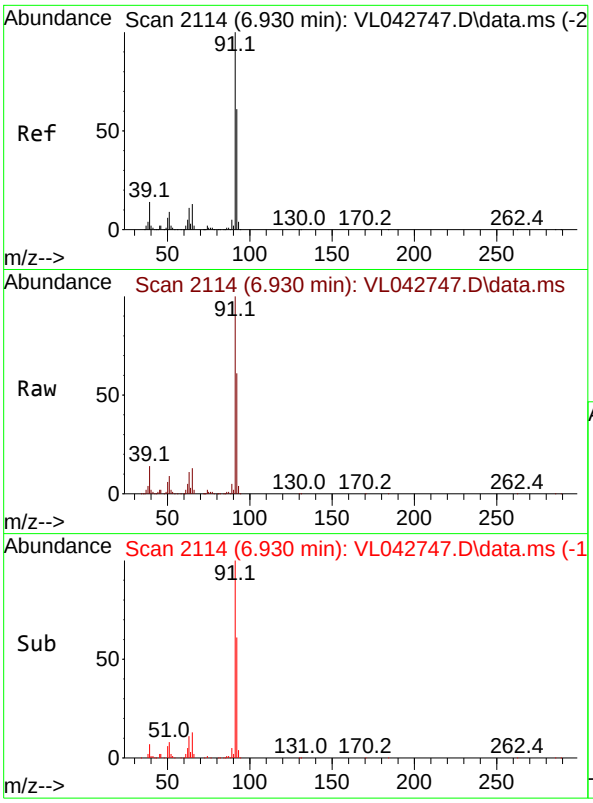


#52
Tetrachloroethene
Concen: 8.609 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:164 Resp: 156930

Ion	Ratio	Lower	Upper
164	100		
166	130.0	104.0	156.0
129	99.0	79.2	118.8
131	95.3	76.2	114.4

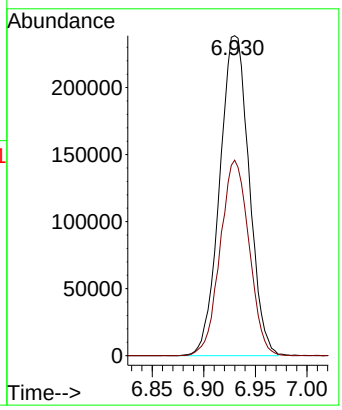




#53
Toluene
Concen: 10.042 ppbv
RT: 6.930 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 47295

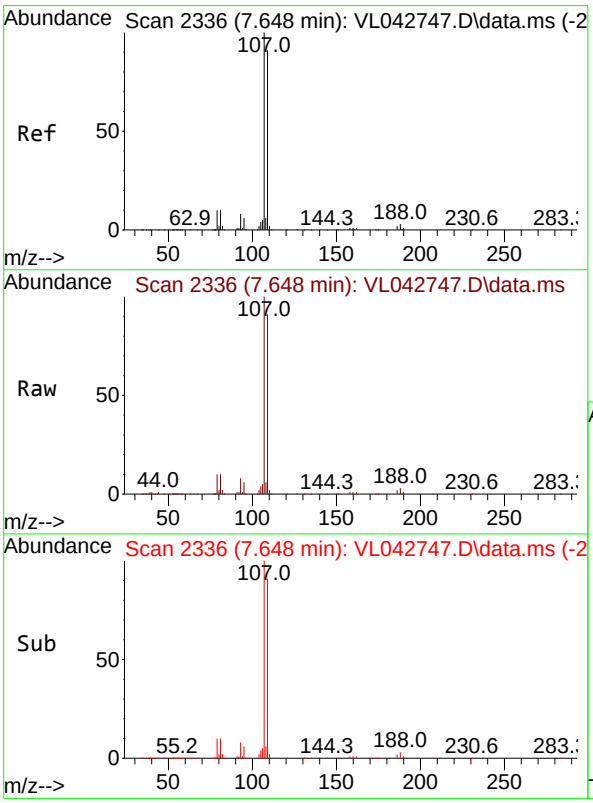
Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.0	72.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

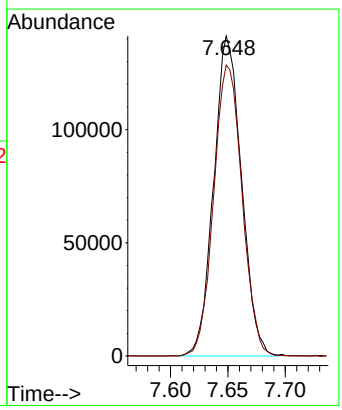
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

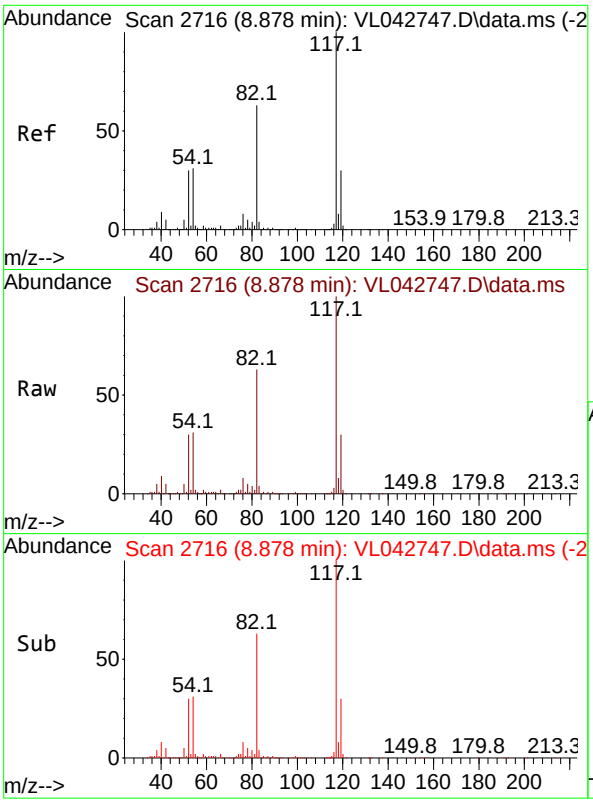


#54
1,2-Dibromoethane
Concen: 9.745 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:107 Resp: 238045

Ion	Ratio	Lower	Upper
107	100		
109	90.9	72.7	109.1

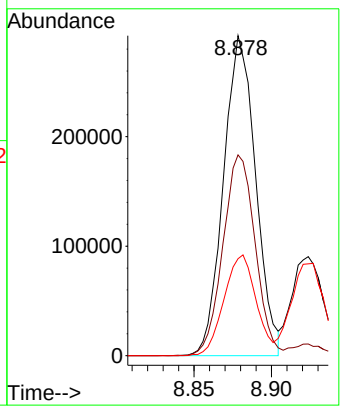




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:117 Resp: 42220

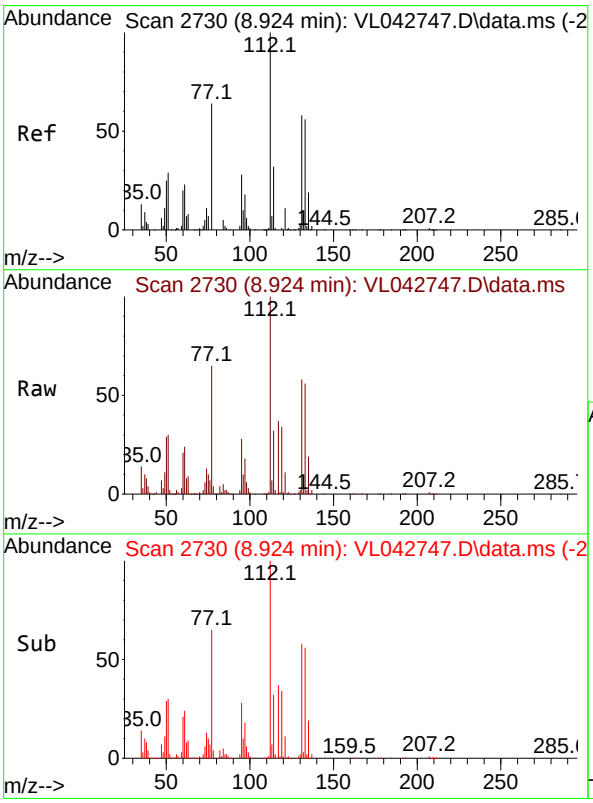
Ion	Ratio	Lower	Upper
117	100		
82	66.6	53.3	79.9
119	32.2	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

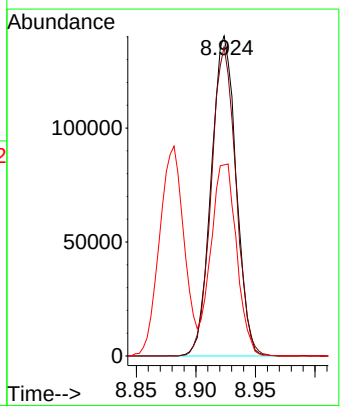
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

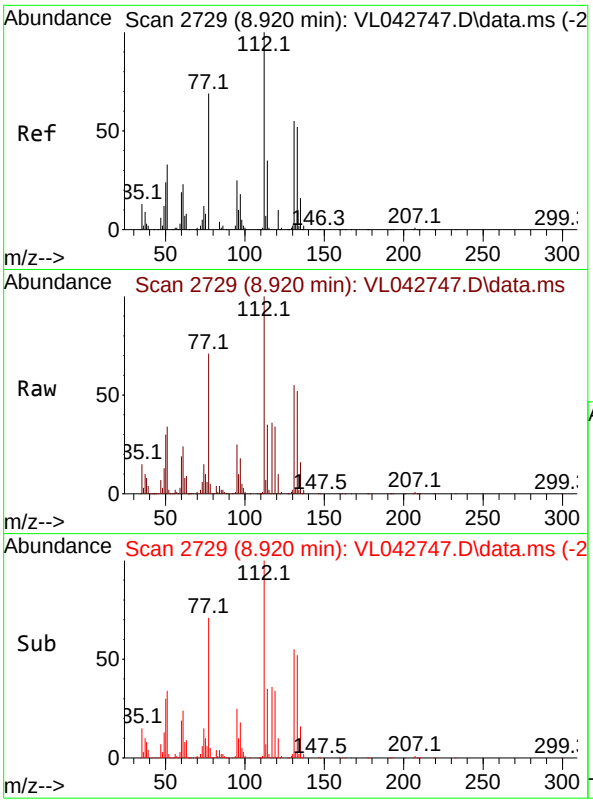


#56
1,1,1,2-Tetrachloroethane
Concen: 9.302 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:131 Resp: 204205

Ion	Ratio	Lower	Upper
131	100		
133	96.0	76.8	115.2
119	62.1	49.7	74.5

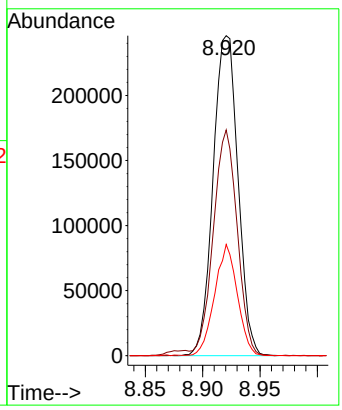




#57
Chlorobenzene
Concen: 9.082 ppbv
RT: 8.920 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:112 Resp: 37111

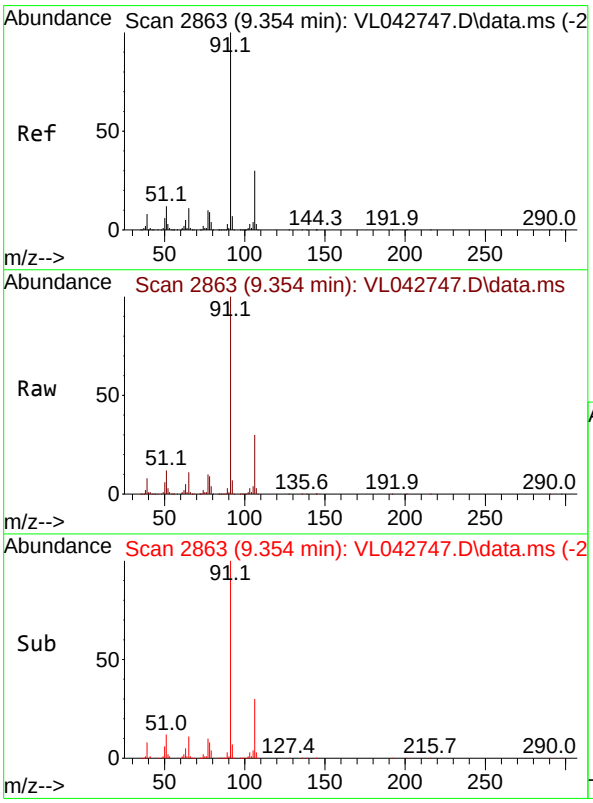
Ion	Ratio	Lower	Upper
112	100		
77	70.5	56.4	84.6
114	34.7	31.2	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

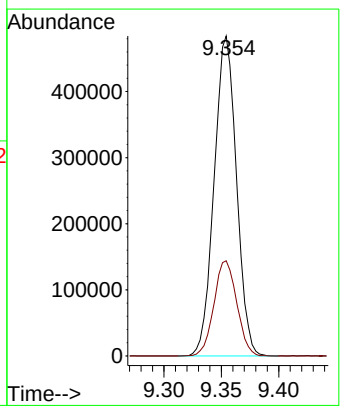
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

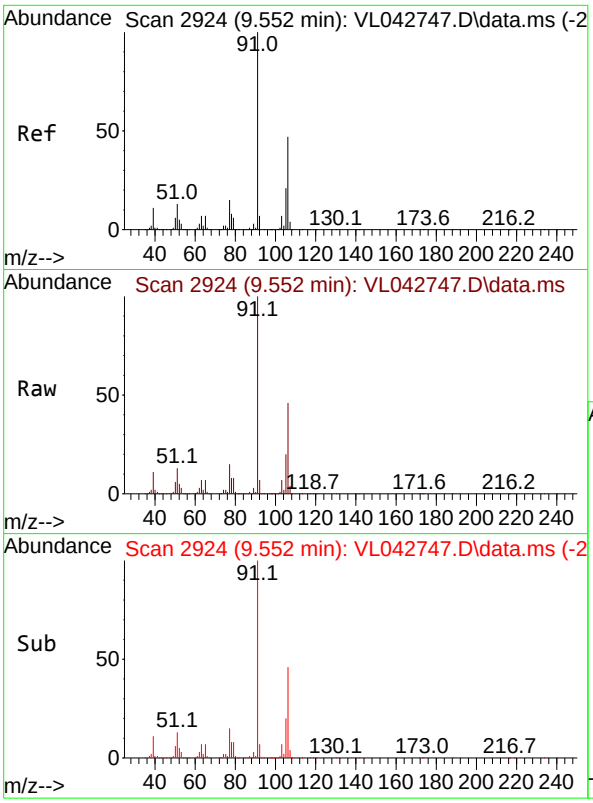


#58
Ethyl Benzene
Concen: 9.824 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 655020

Ion	Ratio	Lower	Upper
91	100		
106	29.7	23.8	35.6

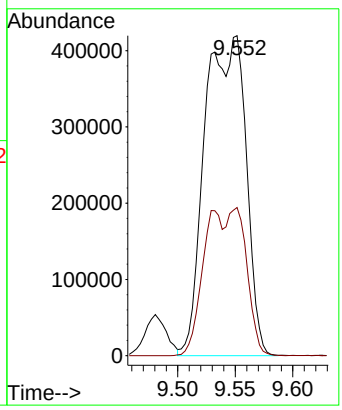




#59
m/p-Xylene
Concen: 19.555 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 104233

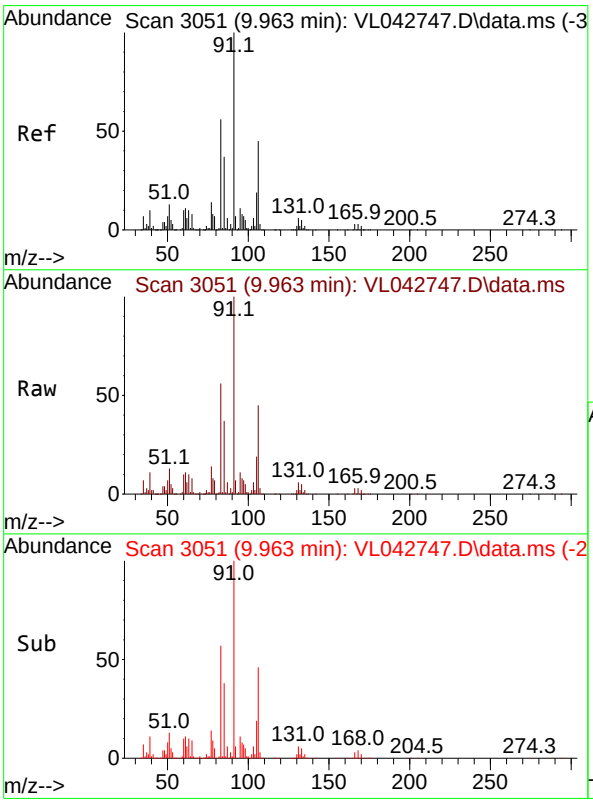
Ion	Ratio	Lower	Upper
91	100		
106	46.8	37.4	56.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

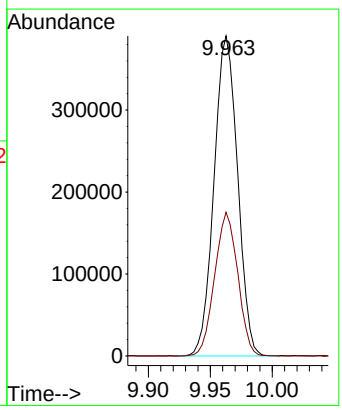
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

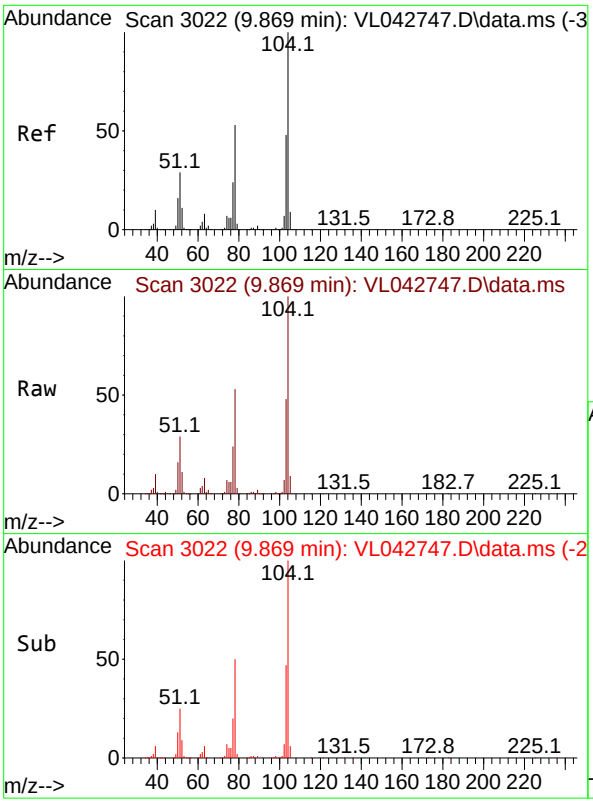


#60
o-Xylene
Concen: 9.715 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 517292

Ion	Ratio	Lower	Upper
91	100		
106	44.0	22.0	66.0

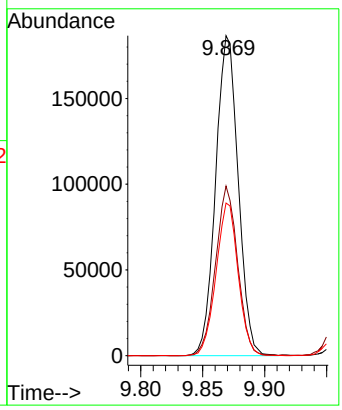




#61
Styrene
Concen: 10.568 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:104 Resp: 23670

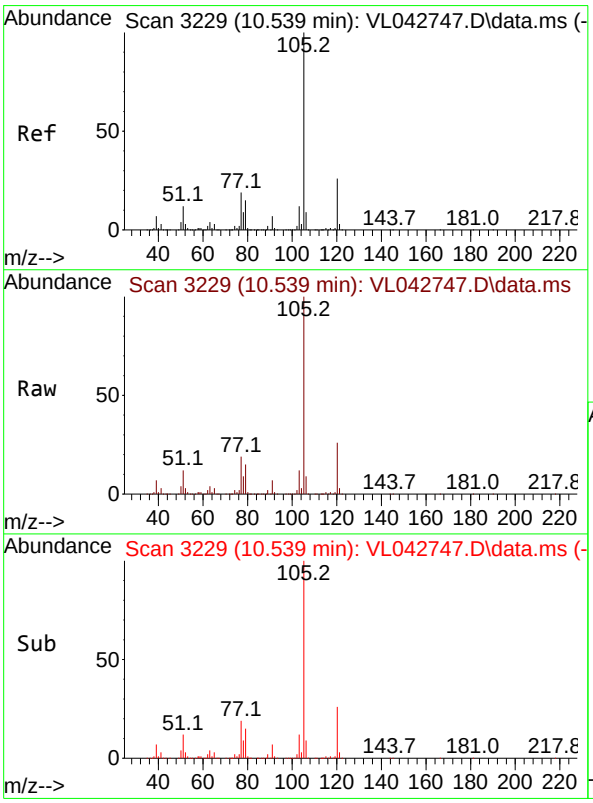
Ion	Ratio	Lower	Upper
104	100		
78	51.9	41.5	62.3
103	46.9	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

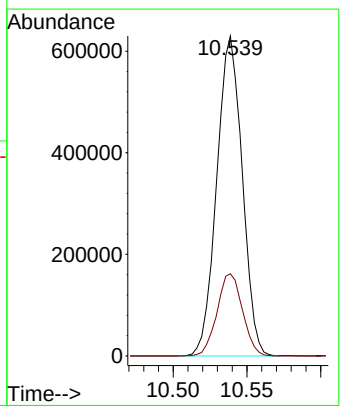
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

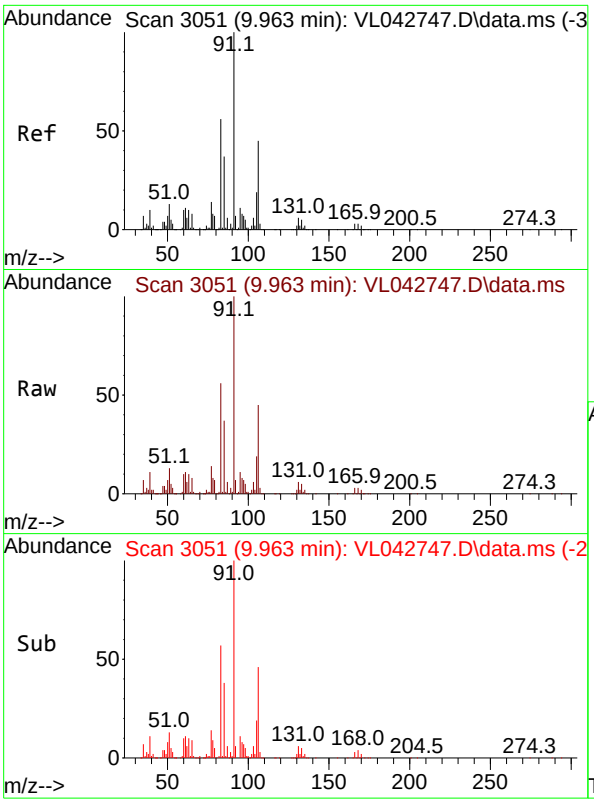


#62
Isopropylbenzene
Concen: 9.641 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 757219

Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.5	30.7

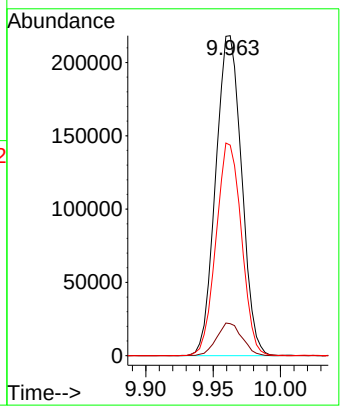




#63
1,1,2,2-Tetrachloroethane
Concen: 8.434 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 83 Resp: 29256

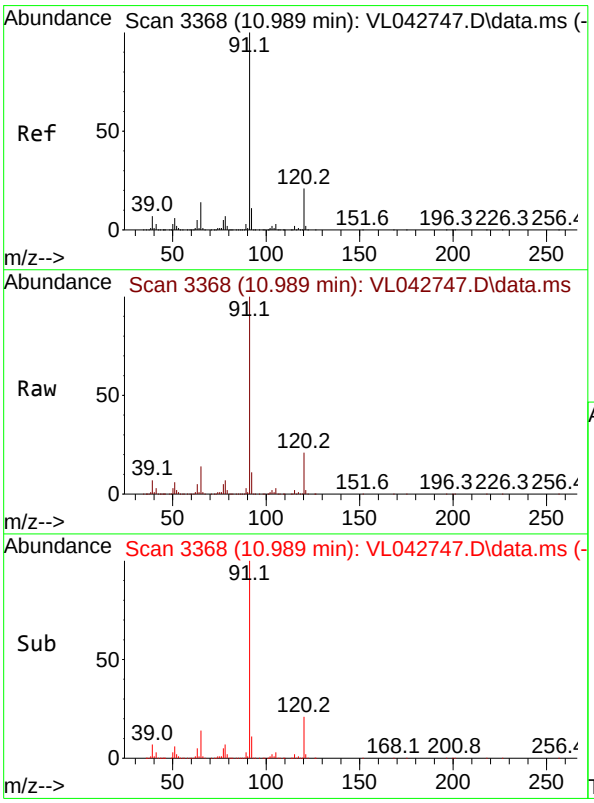
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	15.0
85	65.1	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

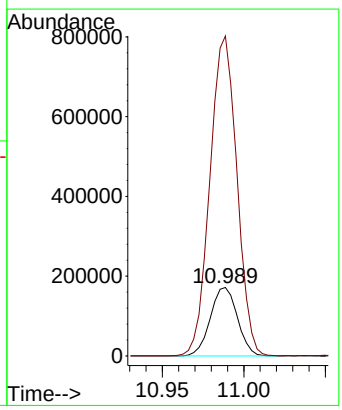
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

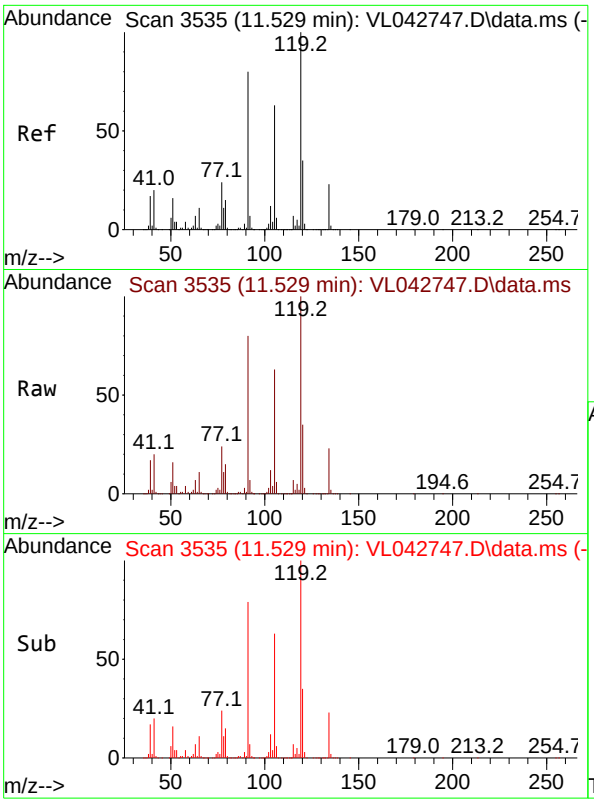


#64
n-propylbenzene
Concen: 9.675 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:120 Resp: 198109

Ion	Ratio	Lower	Upper
120	100		
91	465.9	372.7	559.1

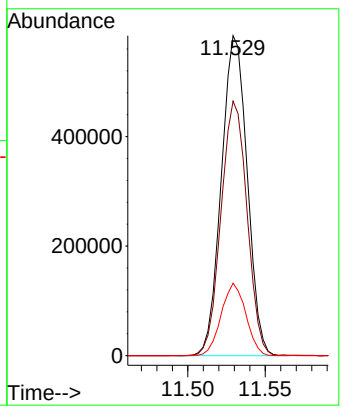




#65
tert-Butylbenzene
Concen: 9.721 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:119 Resp: 67817

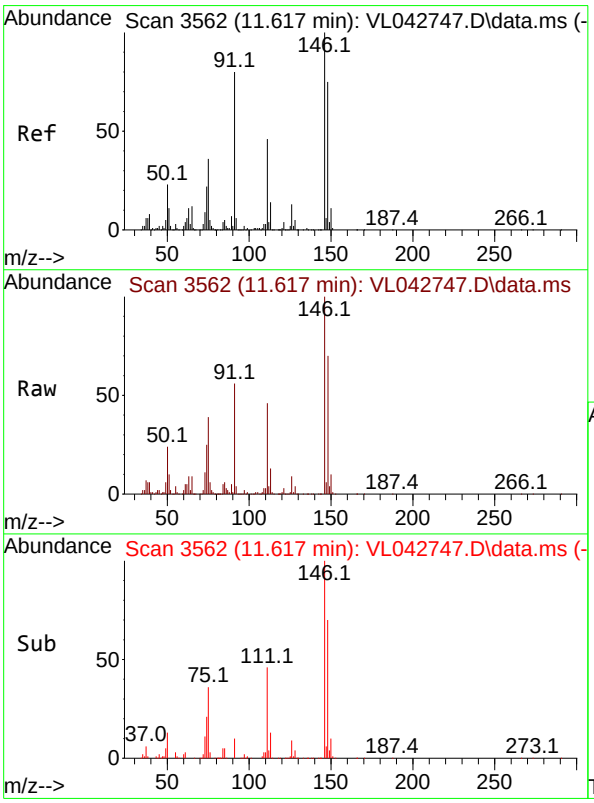
Ion	Ratio	Lower	Upper
119	100		
91	80.0	64.0	96.0
134	21.6	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

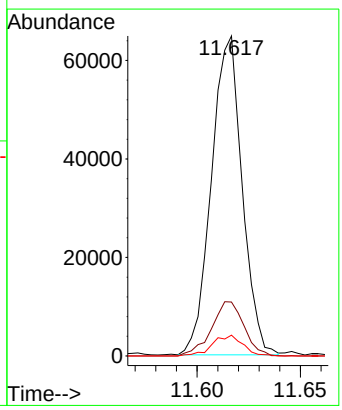
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

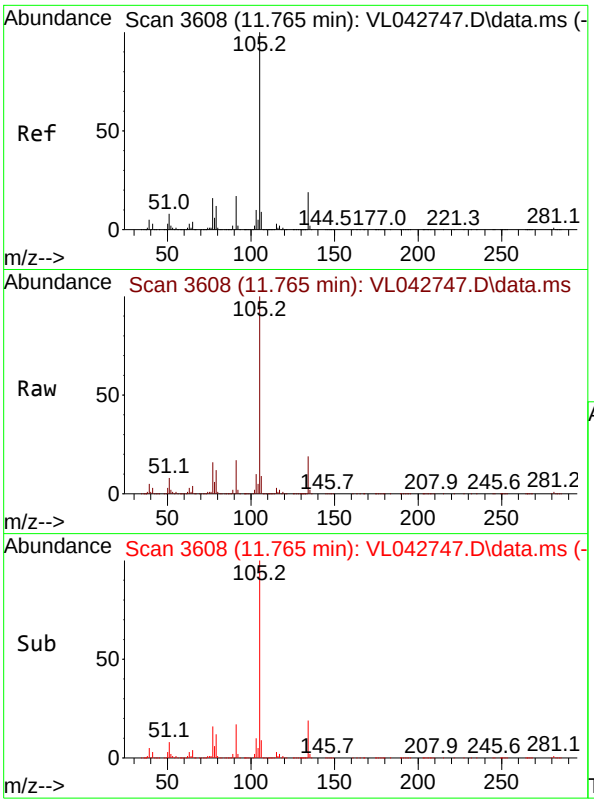


#66
Benzyl Chloride
Concen: 11.691 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 66954

Ion	Ratio	Lower	Upper
91	100		
126	18.0	14.4	21.6
128	6.5	5.2	7.8

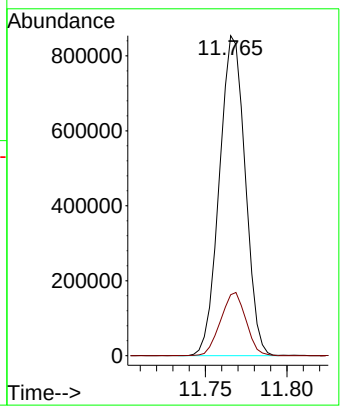




#67
sec-Butylbenzene
Concen: 9.468 ppbv
RT: 11.765 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 93939

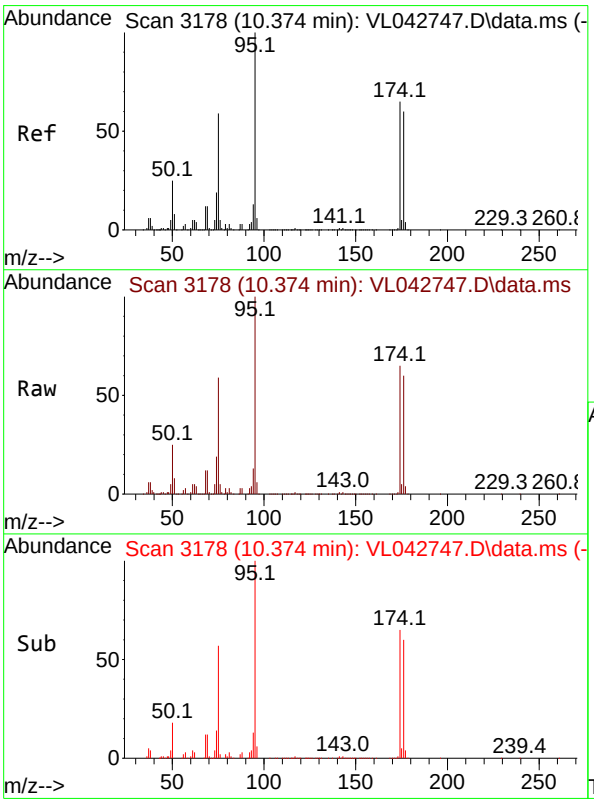
Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

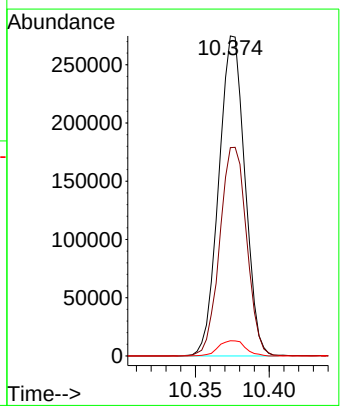
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

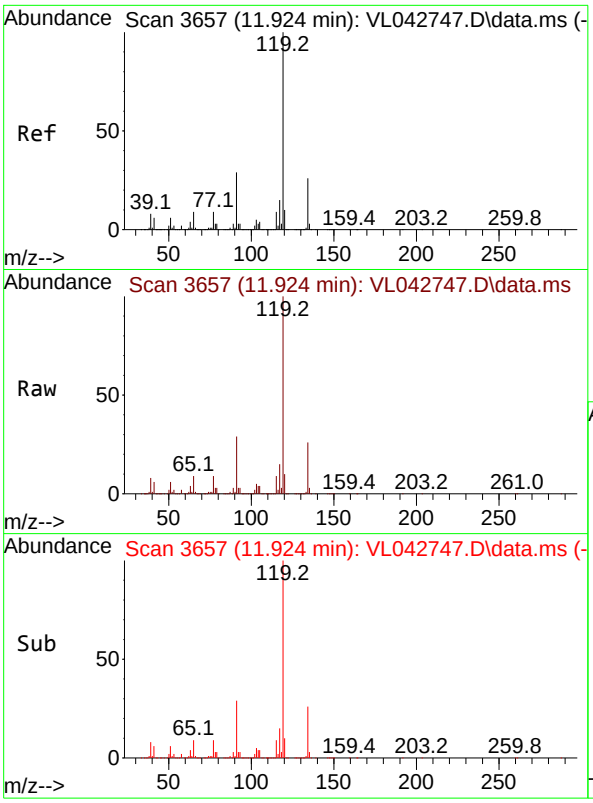


#68
1-Bromo-4-Fluorobenzene
Concen: 10.117 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 95 Resp: 338271

Ion	Ratio	Lower	Upper
95	100		
174	67.2	53.8	80.6
175	5.0	4.0	6.0

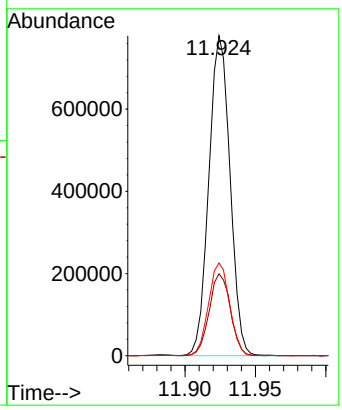




#69
p-Isopropyltoluene
Concen: 10.061 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:119 Resp: 81401

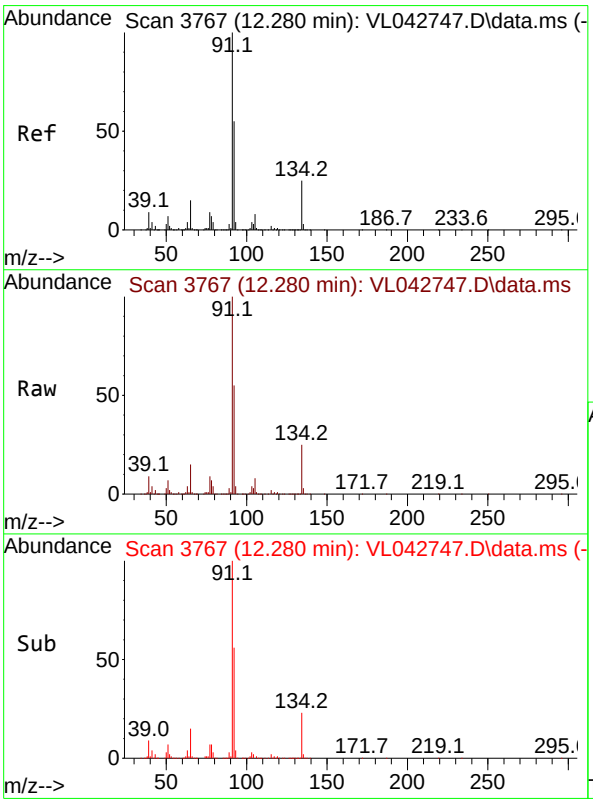
Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.6	31.0
91	29.0	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

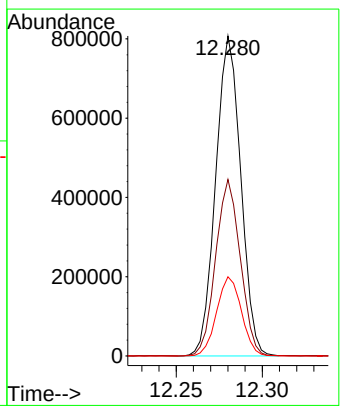
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

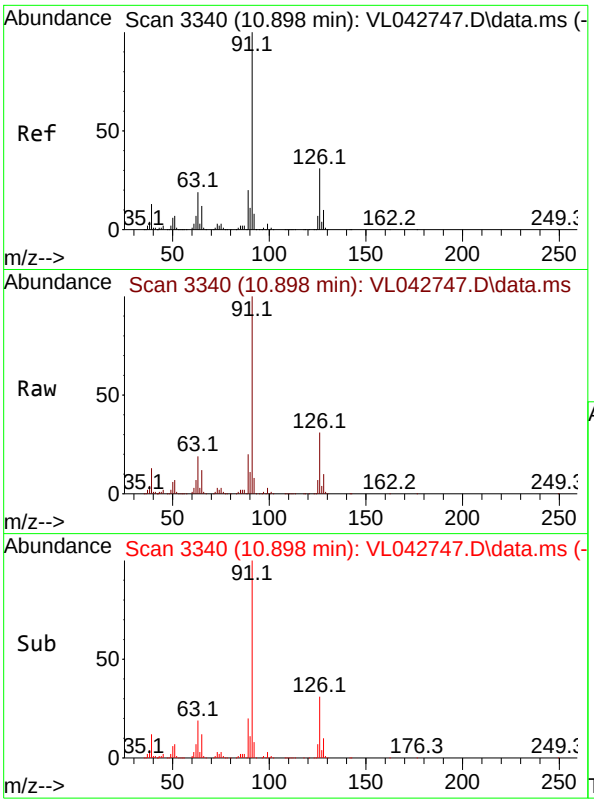


#70
n-Butylbenzene
Concen: 10.473 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 818457

Ion	Ratio	Lower	Upper
91	100		
92	54.3	43.4	65.2
134	24.5	19.6	29.4

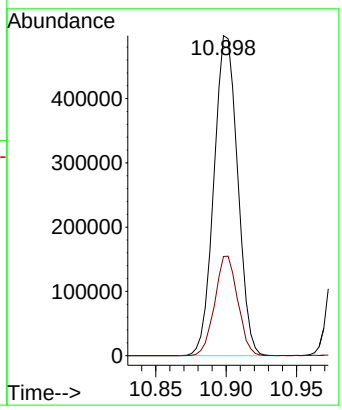




#71
2-Chlorotoluene
Concen: 9.708 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 58462

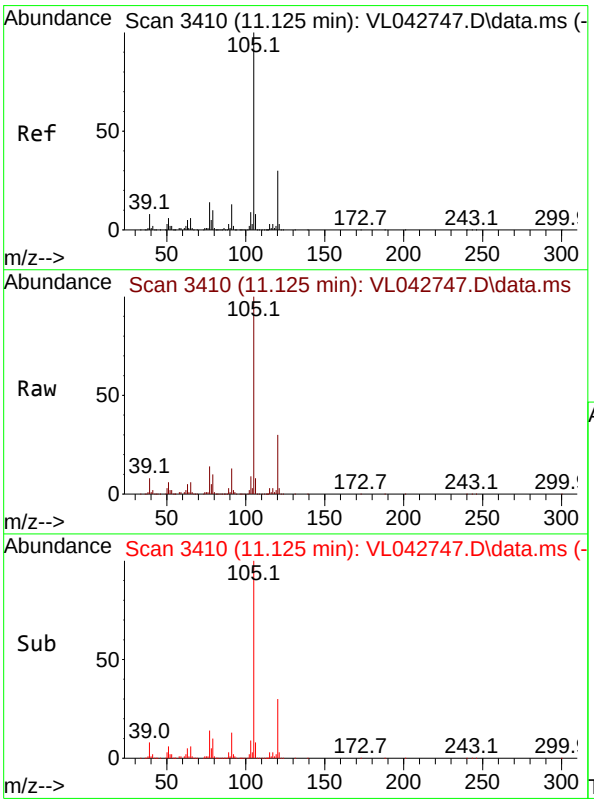
Ion	Ratio	Lower	Upper
91	100		
126	30.1	12.0	48.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

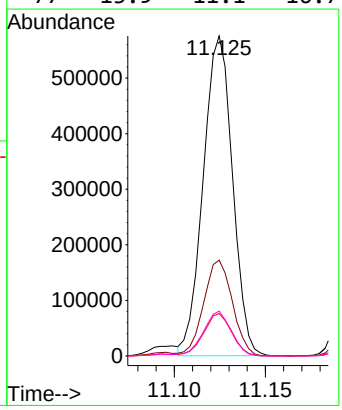
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

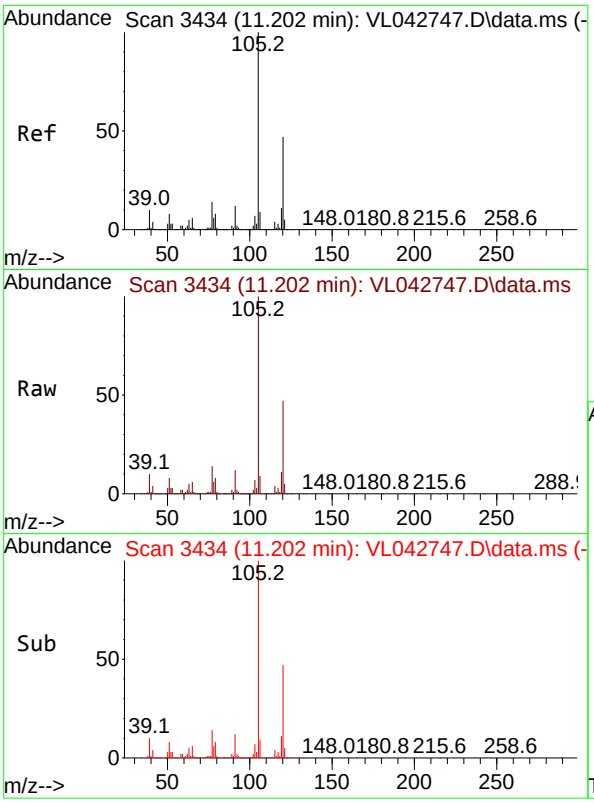


#72
4-Ethyltoluene
Concen: 10.120 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 643519

Ion	Ratio	Lower	Upper
105	100		
120	30.5	24.4	36.6
91	13.2	10.6	15.8
77	13.9	11.1	16.7





#73
1,3,5-Trimethylbenzene
Concen: 10.285 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

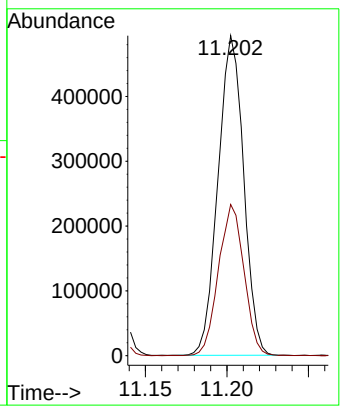
Tgt Ion:105 Resp: 53845

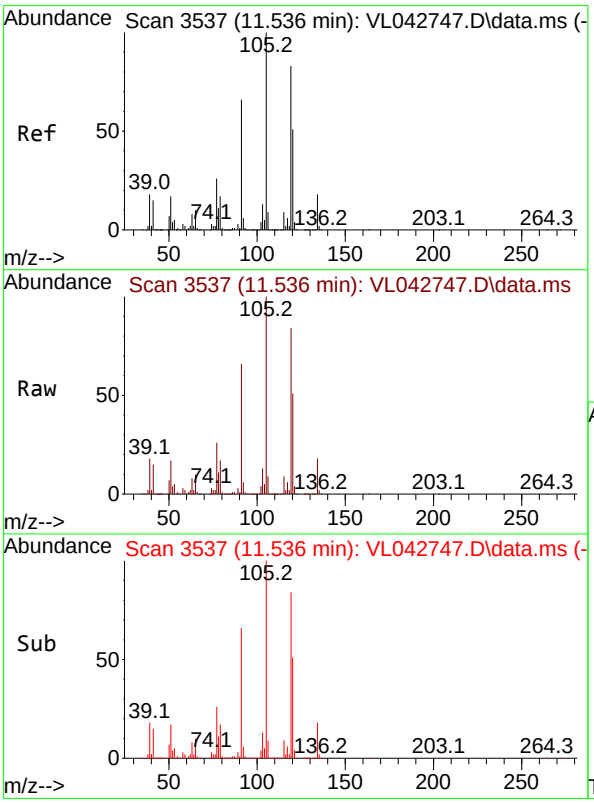
Ion	Ratio	Lower	Upper
105	100		
120	47.3	37.8	56.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

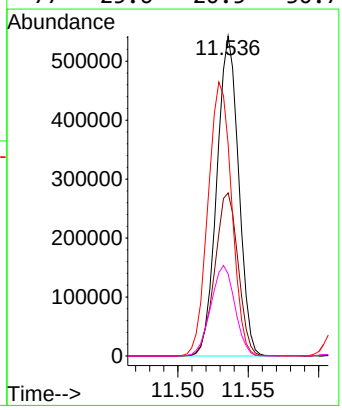


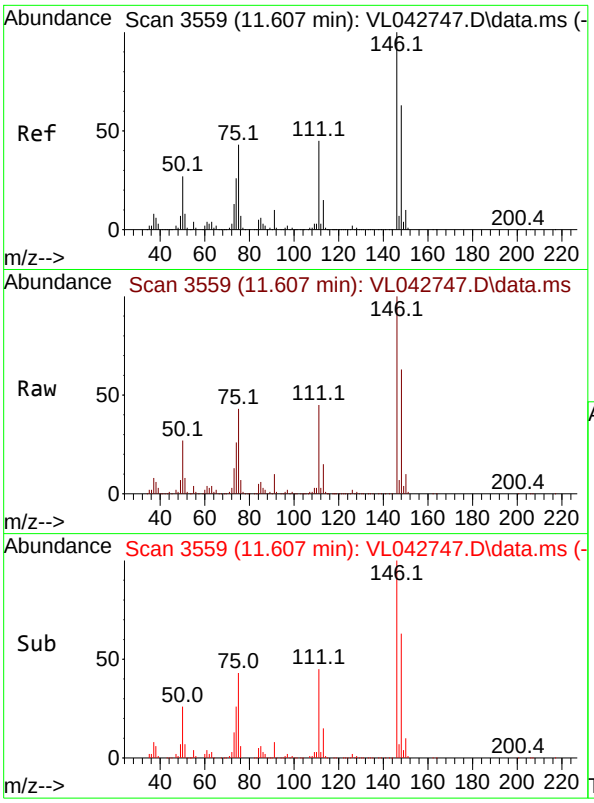


#74
1,2,4-Trimethylbenzene
Concen: 10.232 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 584447

Ion	Ratio	Lower	Upper
105	100		
120	51.0	40.8	61.2
91	66.2	53.0	79.4
77	25.6	20.5	30.7

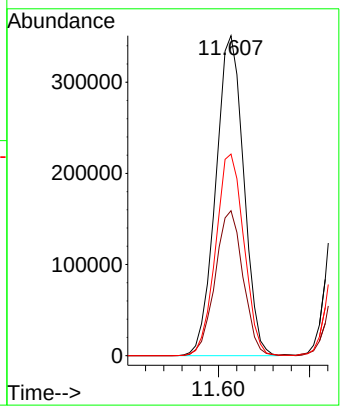




#75
1,3-Dichlorobenzene
Concen: 9.355 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:146 Resp: 37458

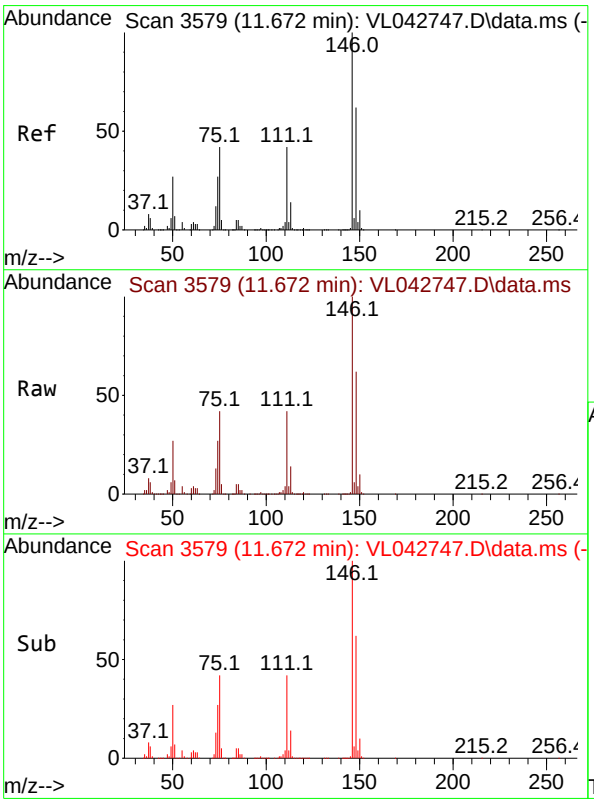
Ion	Ratio	Lower	Upper
146	100		
111	45.3	22.7	68.0
148	63.7	31.9	95.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

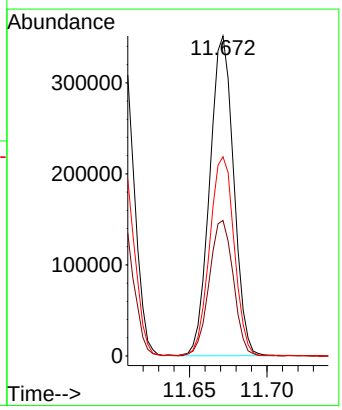
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

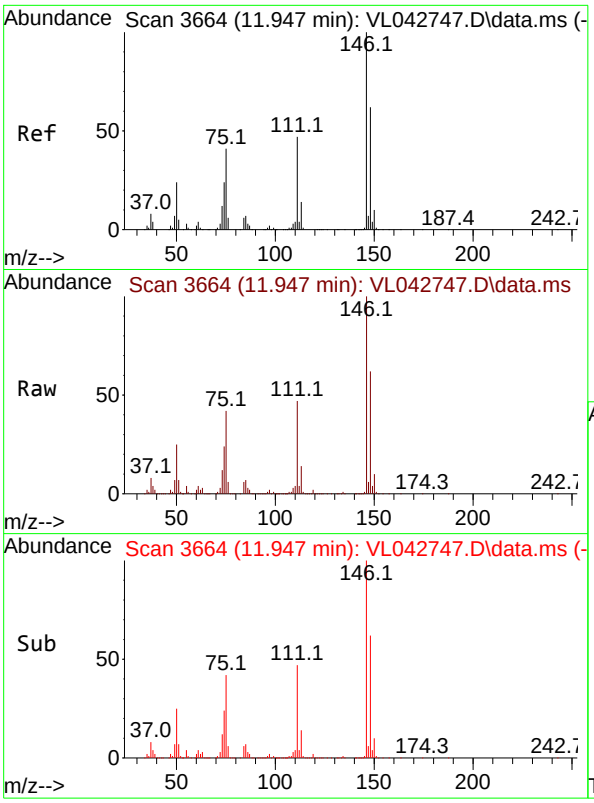


#76
1,4-Dichlorobenzene
Concen: 9.649 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:146 Resp: 378093

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.4	64.2
148	64.2	32.1	96.3

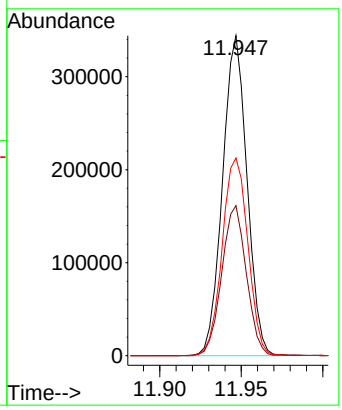




#77
1,2-Dichlorobenzene
Concen: 9.102 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:146 Resp: 35820

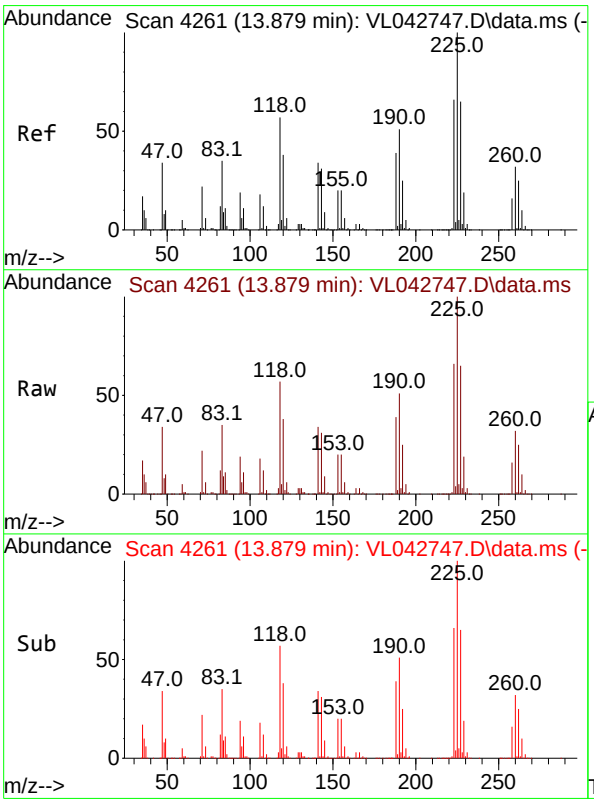
Ion	Ratio	Lower	Upper
146	100		
111	47.4	23.7	71.1
148	65.1	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

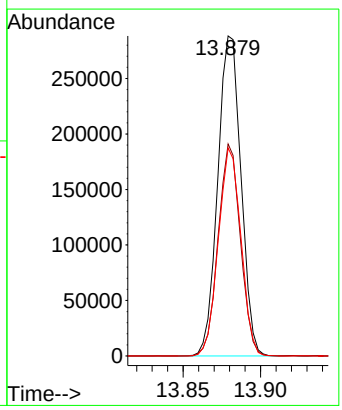
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

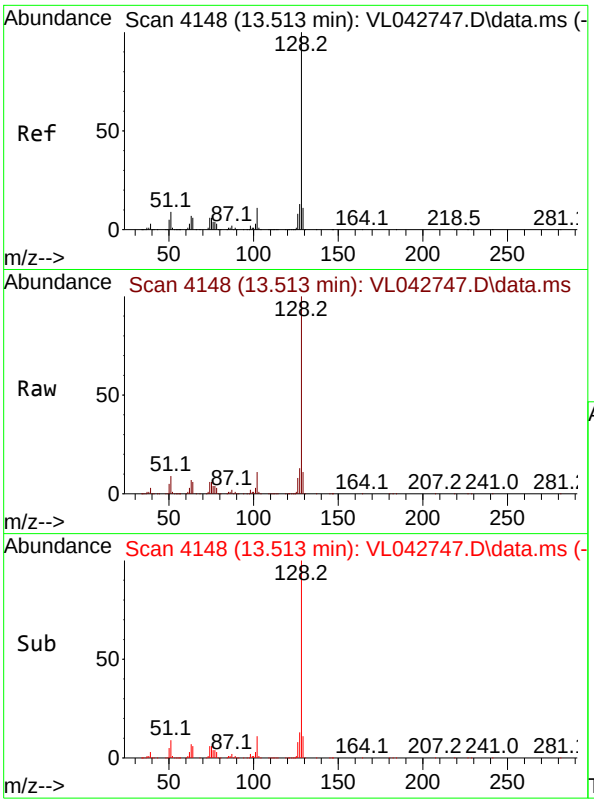


#78
Hexachloro-1,3-Butadiene
Concen: 8.444 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:225 Resp: 300801

Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.7	76.1
227	63.1	50.5	75.7

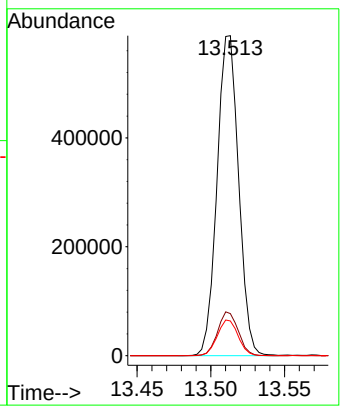




#79
Naphthalene
Concen: 9.665 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:128 Resp: 59810

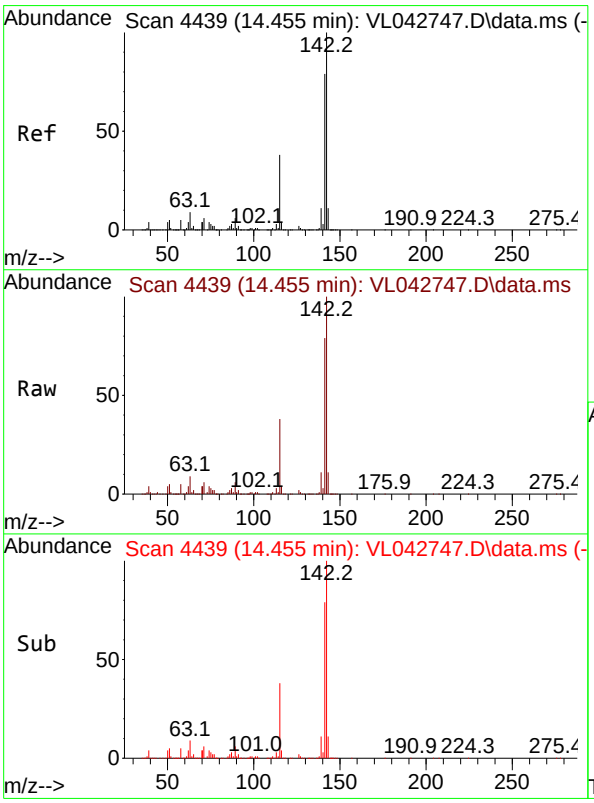
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.8	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

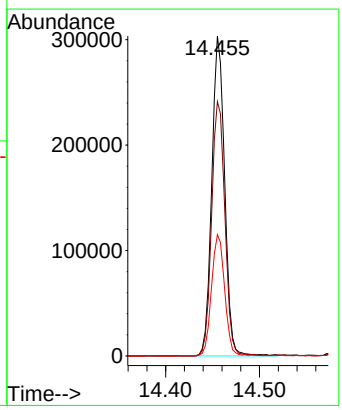
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

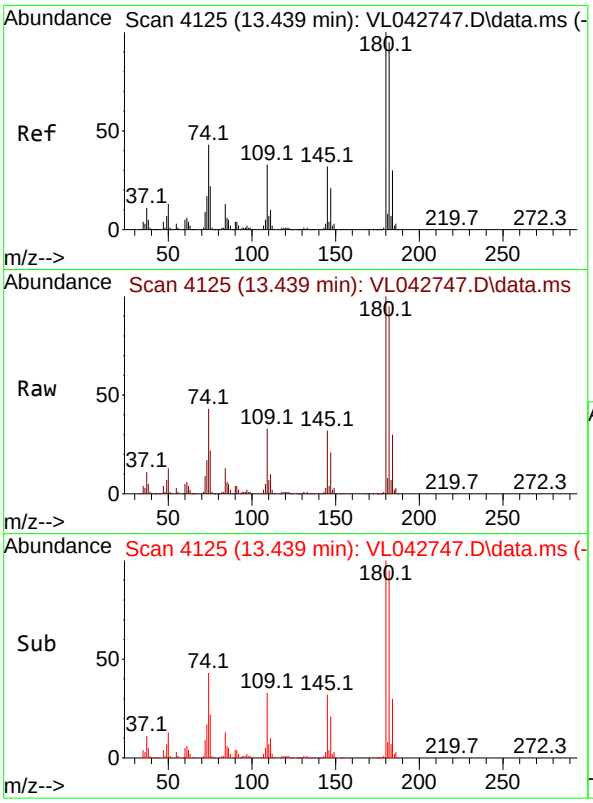


#80
Naphthalene,2-methyl-
Concen: 9.404 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:142 Resp: 289412

Ion	Ratio	Lower	Upper
142	100		
141	82.1	65.8	98.8
115	38.9	31.2	46.8

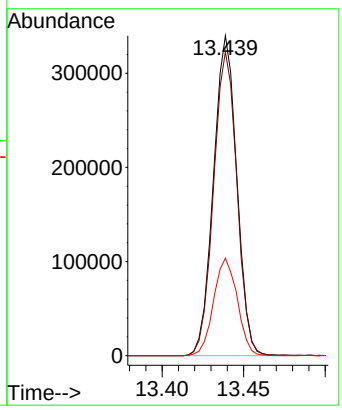




#81
1,2,4-Trichlorobenzene
Concen: 9.710 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:180 Resp: 33777

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.2	114.2
184	31.0	24.8	37.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042748.D
Acq On : 23 Jul 2025 09:34
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 04:56:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.780	49	158575	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	457804	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	410740	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	330476	10.160	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.495	85	43675	2.083	ppbv		98
3) Chlorodifluoromethane	1.473	51	56214	2.058	ppbv		99
4) Chloromethane	1.531	50	16834	1.985	ppbv		100
5) Vinyl Chloride	1.576	62	15384	1.836	ppbv		92
6) Bromomethane	1.664	94	5754	1.776	ppbv		83
7) Chloroethane	1.703	64	6001	1.853	ppbv		93
8) Dichlorotetrafluoroethane	1.554	85	35629	2.066	ppbv		100
9) Propene	1.483	41	21592	2.175	ppbv		97
10) Heptane	4.965	43	56442m	2.114	ppbv		
11) Trichlorofluoromethane	1.874	101	44770	2.072	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.136	101	33910	2.065	ppbv		99
13) Ethanol	1.719	45	2321	2.155	ppbv		78
14) Bromoethene	1.780	108	12078	2.077	ppbv	#	96
15) Acetone	1.832	43	48226	2.202	ppbv		100
16) 1,3-Butadiene	1.606	39	18504	1.981	ppbv		96
17) tert-Butyl alcohol	2.036	59	40135	2.032	ppbv	#	93
18) 1,1-Dichloroethene	2.030	96	14381	1.938	ppbv		93
19) Isopropyl Alcohol	1.884	45	23028	1.979	ppbv	#	75
20) Methylene Chloride	2.059	84	13296	1.927	ppbv		97
21) Allyl Chloride	2.091	41	27789	2.059	ppbv		97
22) trans-1,2-Dichloroethene	2.337	96	16591m	2.081	ppbv		
23) Vinyl Acetate	2.457	43	53544	2.017	ppbv	#	98
24) 1,1-Dichloroethane	2.405	63	33969	2.073	ppbv		99
25) Ethyl Acetate	2.832	43	101853	2.101	ppbv		99
26) Hexane	2.822	57	45446	2.137	ppbv		99
27) Carbon Disulfide	2.146	76	36945	2.030	ppbv	#	36
28) Methyl tert-Butyl Ether	2.437	73	20603	2.051	ppbv		96
29) Chloroform	2.842	83	67755	2.062	ppbv		97
30) Cyclohexane	3.845	84	38095m	2.113	ppbv		
31) cis-1,2-Dichloroethene	2.716	61	44860	2.053	ppbv		96
32) 1,1,1-Trichloroethane	3.363	97	67608	1.976	ppbv		98
34) 2-Butanone	2.551	43	69674	2.149	ppbv		99
35) Carbon Tetrachloride	3.755	117	67338	1.979	ppbv		97
36) Benzene	3.648	78	91141	2.101	ppbv		94
37) 1,2-Dichloroethane	3.211	62	53482	2.046	ppbv		98
38) Trichloroethene	4.538	130	40713	1.946	ppbv		90
39) 1,2-Dichloropropane	4.305	63	33225	2.075	ppbv		94
40) 1,4-Dioxane	4.583	88	15890m	2.104	ppbv		
41) Tetrahydrofuran	3.052	42	33618	2.064	ppbv		94
42) Bromodichloromethane	4.480	83	69093	2.028	ppbv		94
43) Methyl Methacrylate	4.871	69	30336	1.967	ppbv		95
44) 2,2,4-Trimethylpentane	4.632	57	149588	2.115	ppbv		99
45) t-1,3-Dichloropropene	6.405	75	34331m	1.984	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042748.D
Acq On : 23 Jul 2025 09:34
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 04:56:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	43845m	2.000	ppbv		
47) 1,1,2-Trichloroethane	6.567	97	35222m	2.063	ppbv		
48) Dibromochloromethane	7.380	129	54906	2.026	ppbv		96
49) Bromoform	9.477	173	47340	2.003	ppbv		96
50) 4-Methyl-2-Pentanone	5.748	43	87566m	2.120	ppbv		
51) 2-Hexanone	7.431	43	68093	2.157	ppbv	#	99
52) Tetrachloroethene	8.215	164	34568	1.917	ppbv		94
53) Toluene	6.923	91	98346	2.111	ppbv		100
54) 1,2-Dibromoethane	7.645	107	49346	2.042	ppbv		91
56) 1,1,1,2-Tetrachloroethane	8.920	131	44409	2.079	ppbv		92
57) Chlorobenzene	8.914	112	83503	2.101	ppbv	#	92
58) Ethyl Benzene	9.348	91	143251	2.208	ppbv		97
59) m/p-Xylene	9.545	91	222465m	4.290	ppbv		
60) o-Xylene	9.956	91	113462	2.190	ppbv		99
61) Styrene	9.865	104	45351	2.081	ppbv		100
62) Isopropylbenzene	10.535	105	167108	2.187	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.959	83	65928	1.954	ppbv		100
64) n-propylbenzene	10.982	120	43789	2.198	ppbv		98
65) tert-Butylbenzene	11.526	119	151081	2.226	ppbv		98
66) Benzyl Chloride	11.610	91	10485	1.882	ppbv		98
67) sec-Butylbenzene	11.762	105	212925	2.206	ppbv		99
69) p-Isopropyltoluene	11.921	119	175553	2.230	ppbv		99
70) n-Butylbenzene	12.277	91	171675	2.258	ppbv		99
71) 2-Chlorotoluene	10.898	91	125039	2.134	ppbv		98
72) 4-Ethyltoluene	11.121	105	134097	2.168	ppbv		98
73) 1,3,5-Trimethylbenzene	11.199	105	108055	2.122	ppbv		97
74) 1,2,4-Trimethylbenzene	11.532	105	122295	2.201	ppbv		95
75) 1,3-Dichlorobenzene	11.600	146	85254	2.188	ppbv		99
76) 1,4-Dichlorobenzene	11.665	146	83440	2.189	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	82311	2.150	ppbv		99
78) Hexachloro-1,3-Butadiene	13.876	225	78291	2.259	ppbv		99
79) Naphthalene	13.510	128	79191	1.690	ppbv		98
80) Naphthalene,2-methyl-	14.455	142	5851	1.298	ppbv		90
81) 1,2,4-Trichlorobenzene	13.435	180	51515	1.888	ppbv		99

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

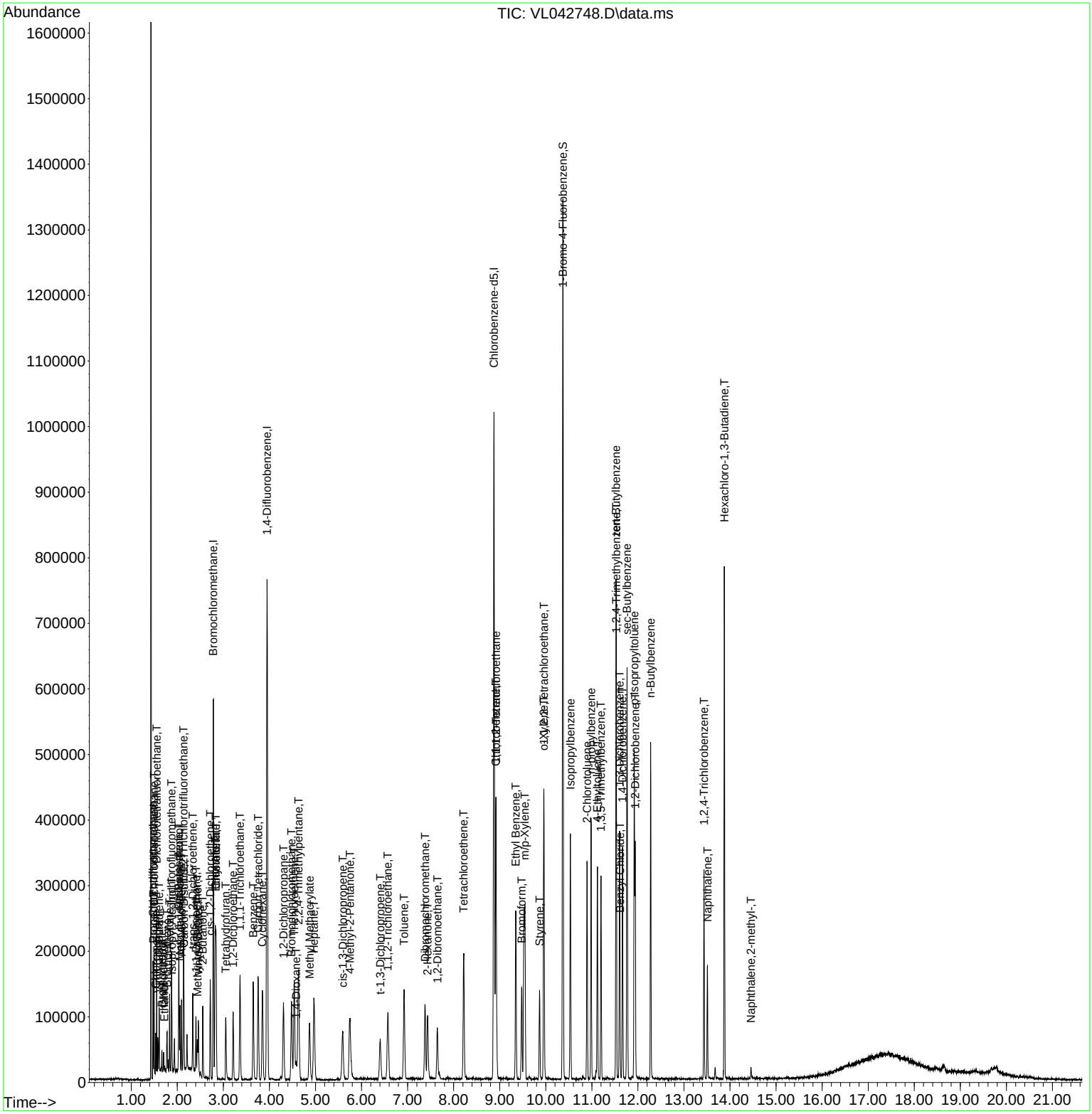
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042748.D
Acq On : 23 Jul 2025 09:34
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

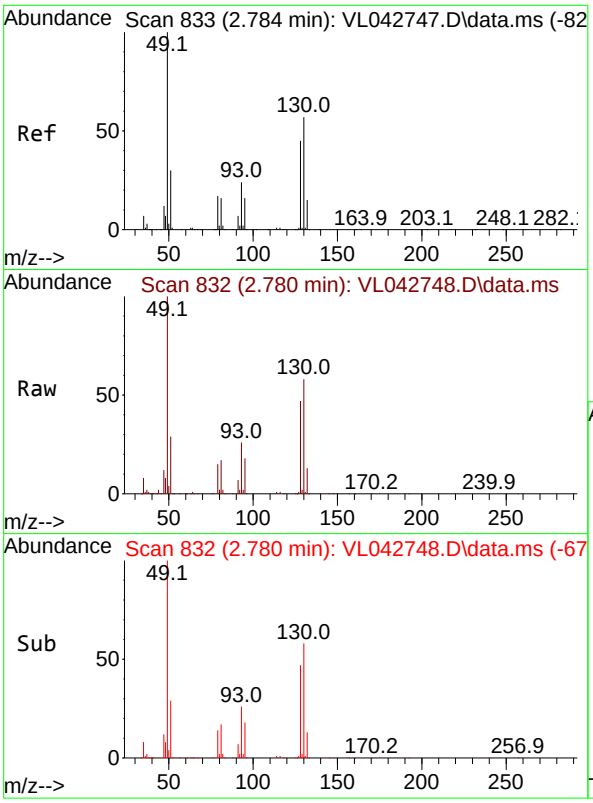
Quant Time: Jul 24 04:56:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

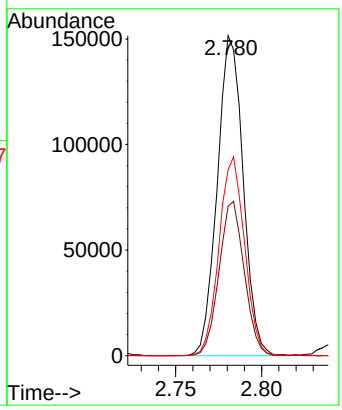




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 49 Resp: 15857

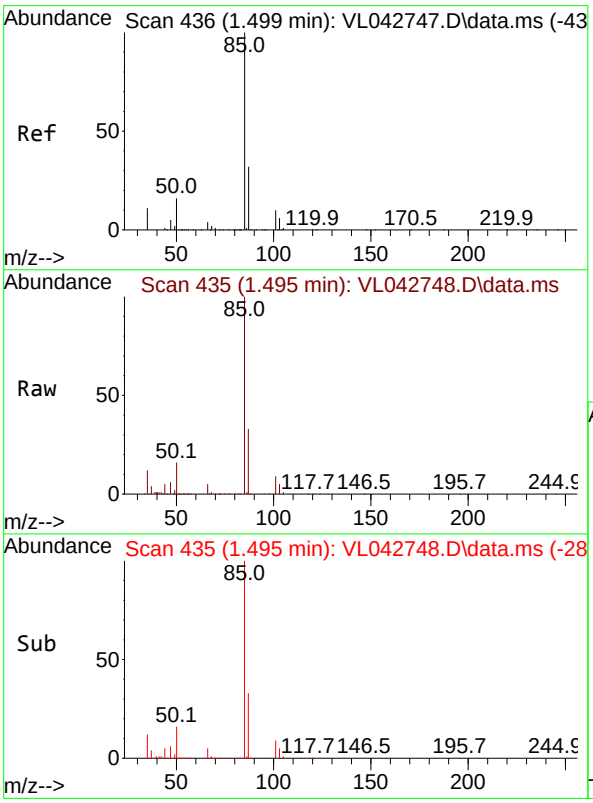
Ion	Ratio	Lower	Upper
49	100		
128	47.0	23.6	71.0
130	61.6	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

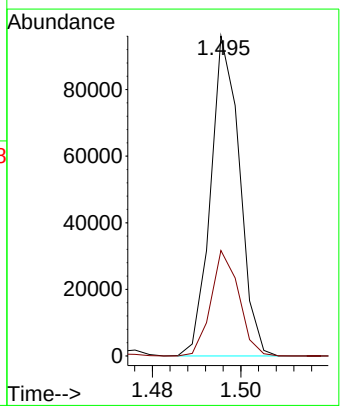
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

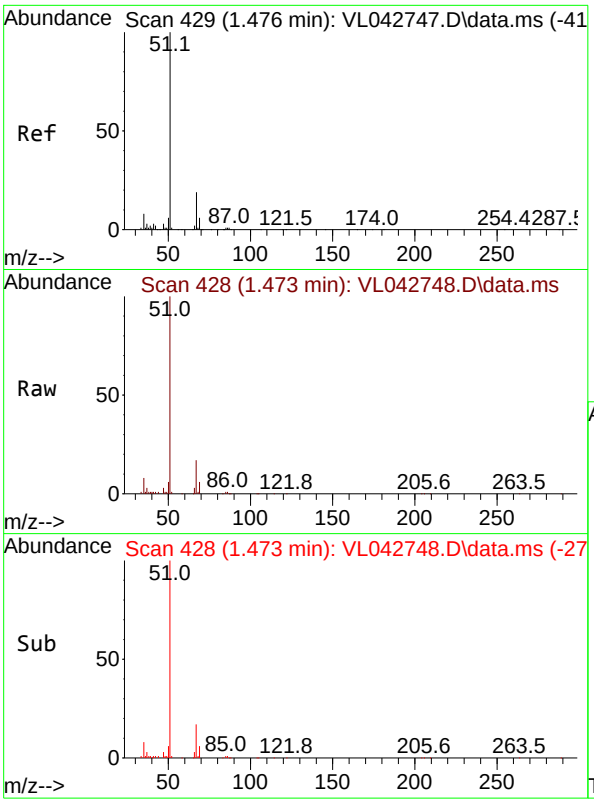


#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 85 Resp: 43675

Ion	Ratio	Lower	Upper
85	100		
87	33.0	25.4	38.2

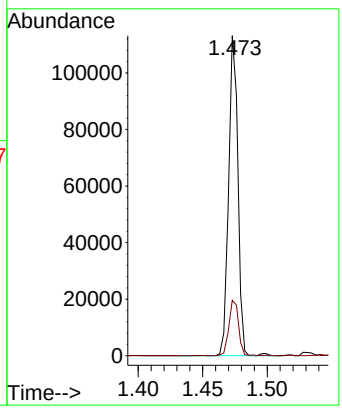




#3
Chlorodifluoromethane
Concen: 2.058 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 51 Resp: 5621

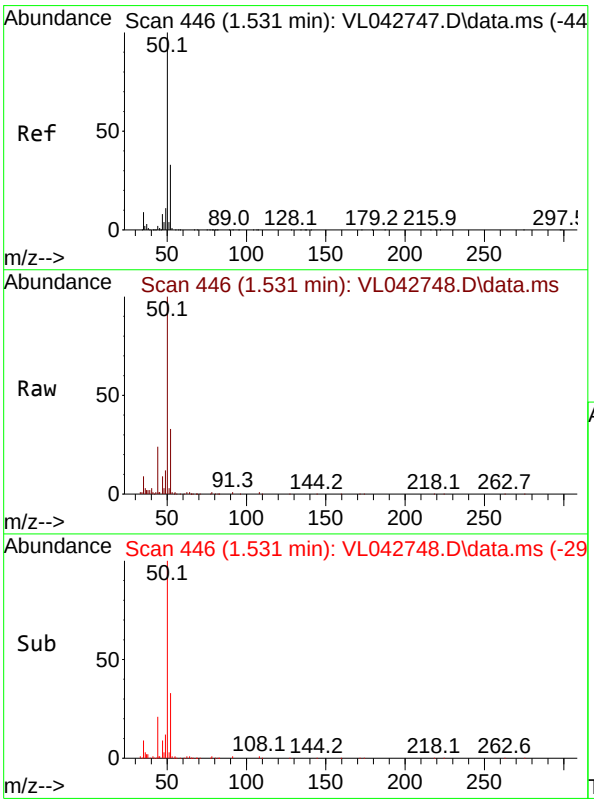
Ion	Ratio	Lower	Upper
51	100		
67	18.3	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

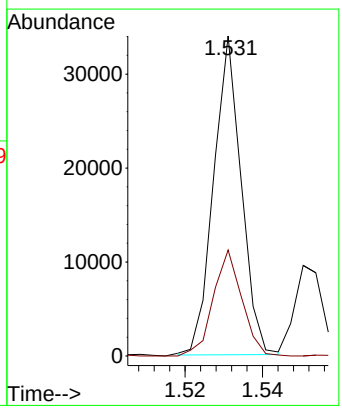
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

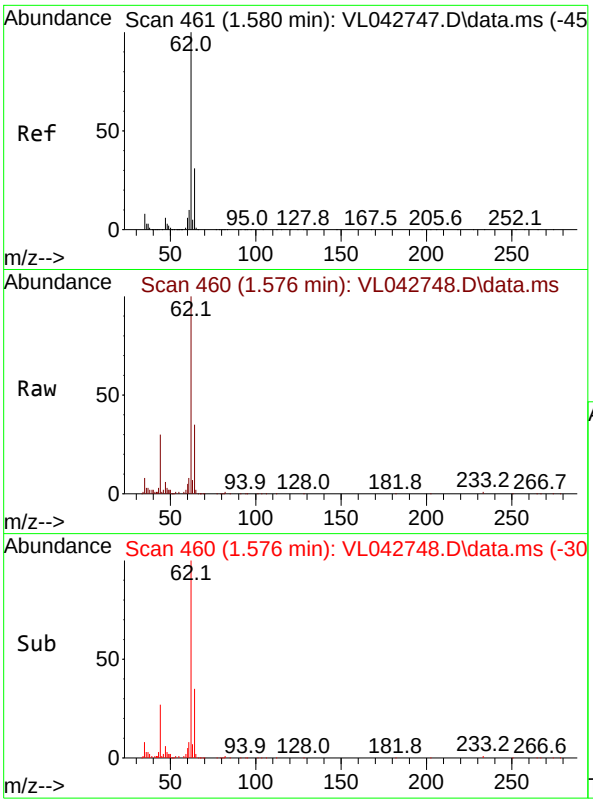


#4
Chloromethane
Concen: 1.985 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 50 Resp: 16834

Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.6	40.0

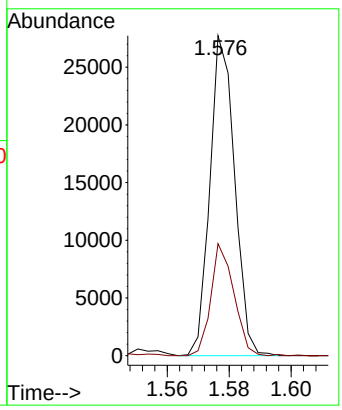




#5
Vinyl Chloride
Concen: 1.836 ppbv
RT: 1.576 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 62 Resp: 1538

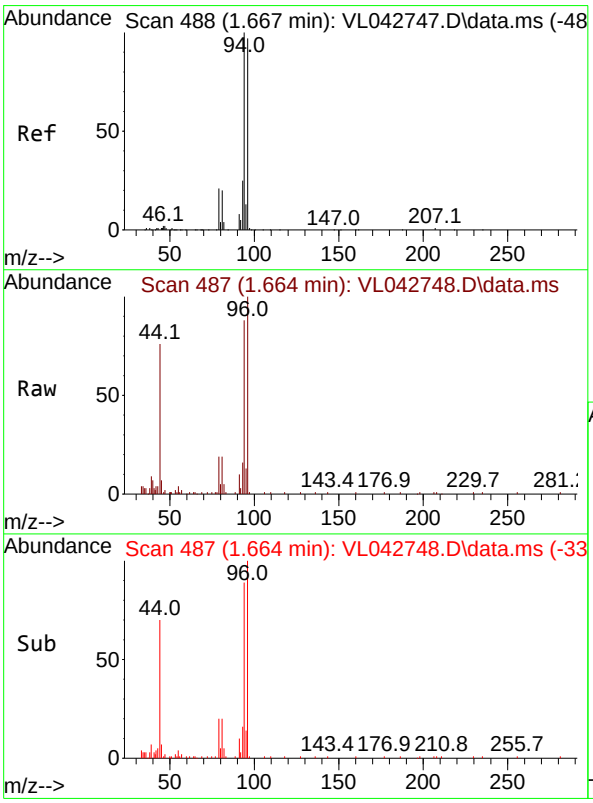
Ion	Ratio	Lower	Upper
62	100		
64	35.0	24.5	36.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

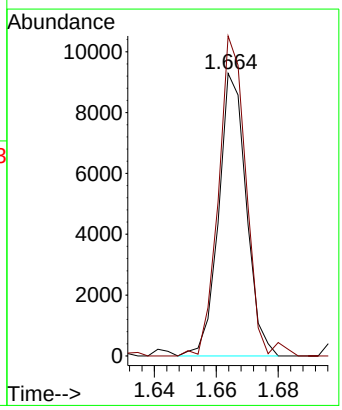
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

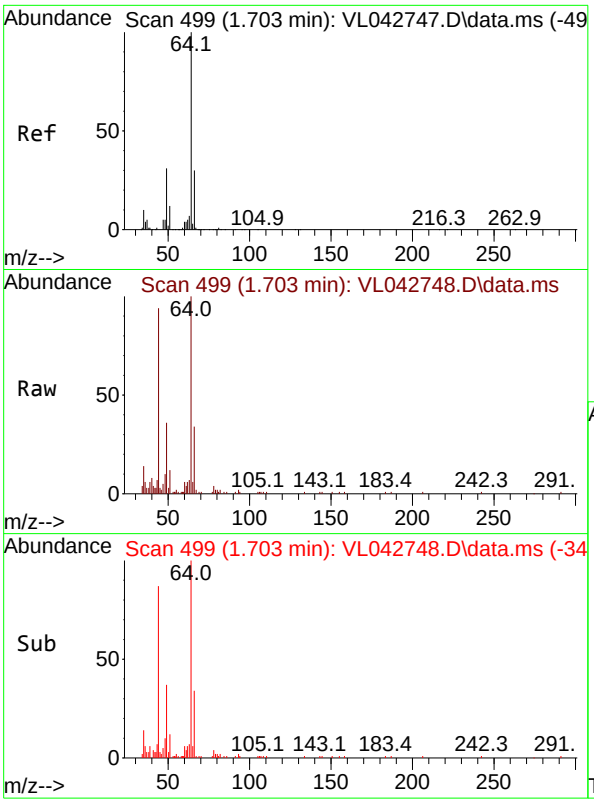


#6
Bromomethane
Concen: 1.776 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 94 Resp: 5754

Ion	Ratio	Lower	Upper
94	100		
96	113.3	77.6	116.4

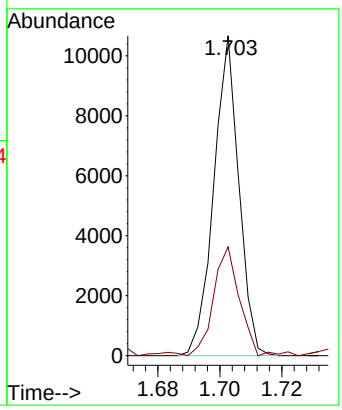




#7
Chloroethane
Concen: 1.853 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 64 Resp: 600

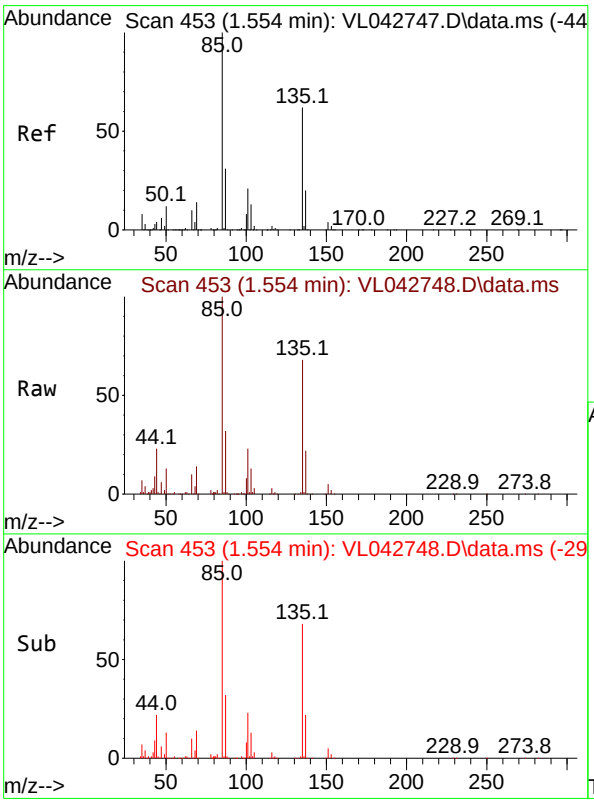
Ion	Ratio	Lower	Upper
64	100		
66	34.0	24.1	36.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

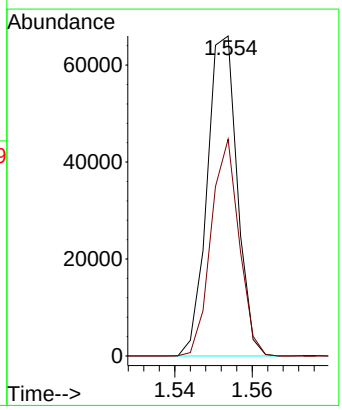
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

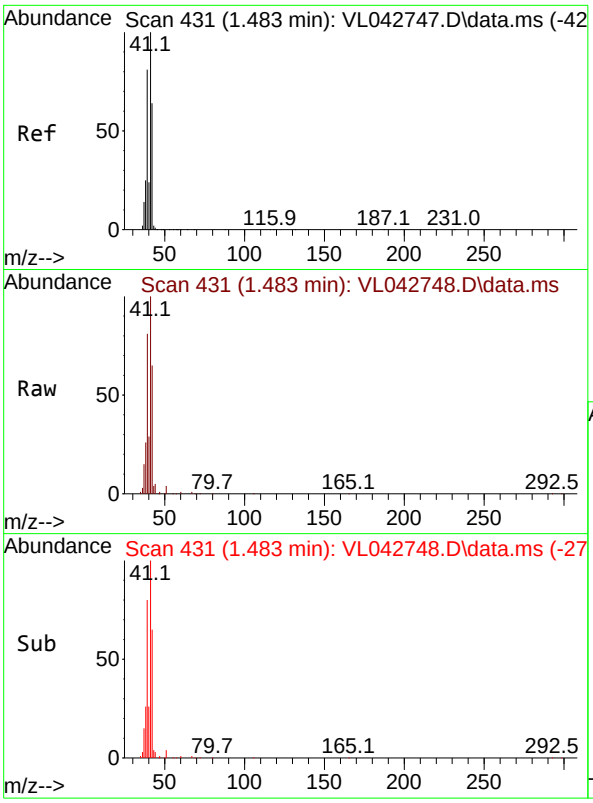


#8
Dichlorotetrafluoroethane
Concen: 2.066 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 85 Resp: 35629

Ion	Ratio	Lower	Upper
85	100		
135	63.0	50.6	76.0

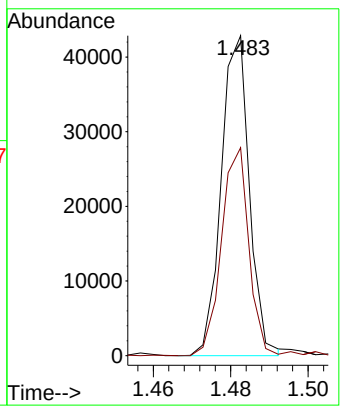




#9
Propene
Concen: 2.175 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 41 Resp: 2159

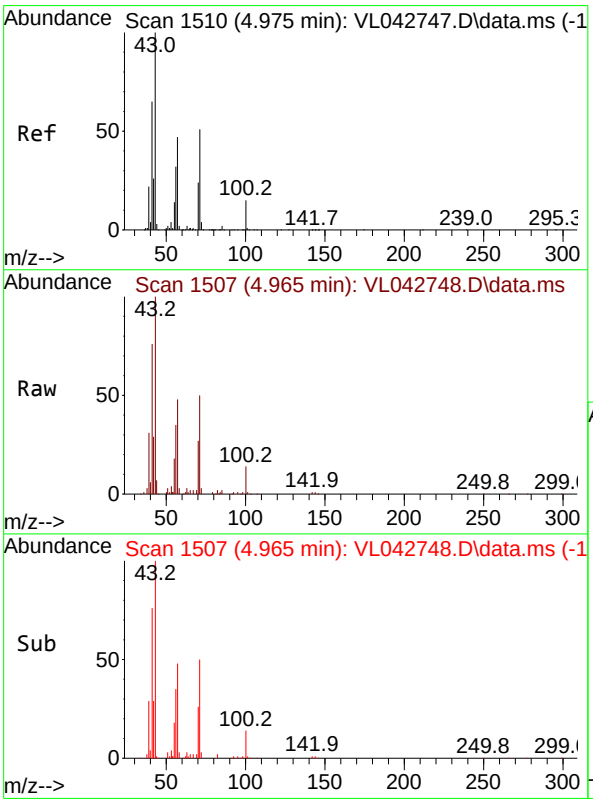
Ion	Ratio	Lower	Upper
41	100		
42	64.5	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

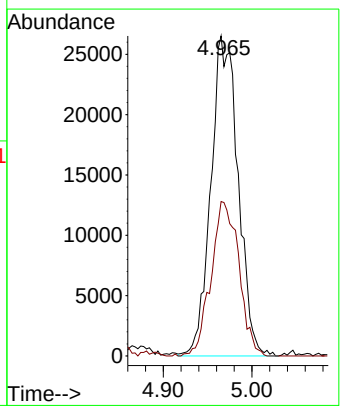
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

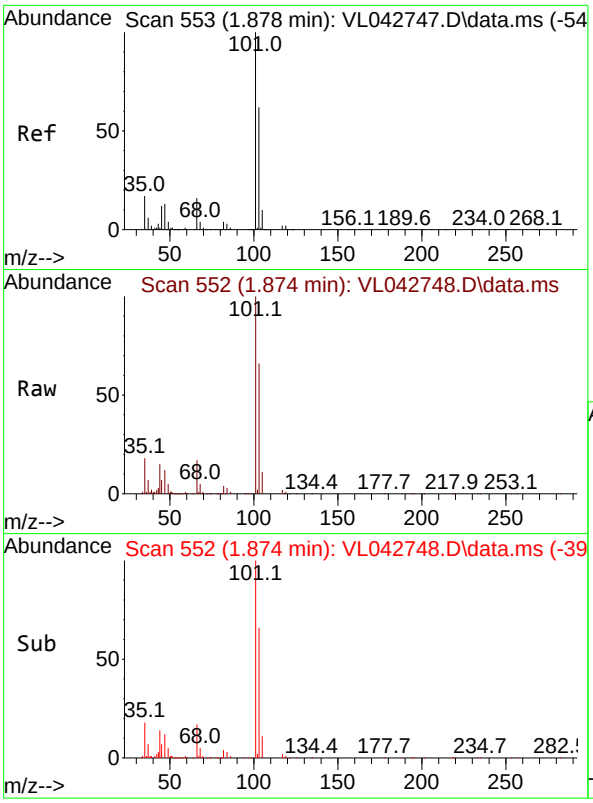


#10
Heptane
Concen: 2.114 ppbv m
RT: 4.965 min Scan# 1507
Delta R.T. -0.010 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 43 Resp: 56442

Ion	Ratio	Lower	Upper
43	100		
57	49.3	39.9	59.9

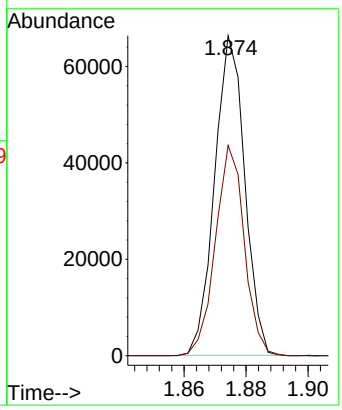




#11
Trichlorofluoromethane
Concen: 2.072 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:101 Resp: 4477

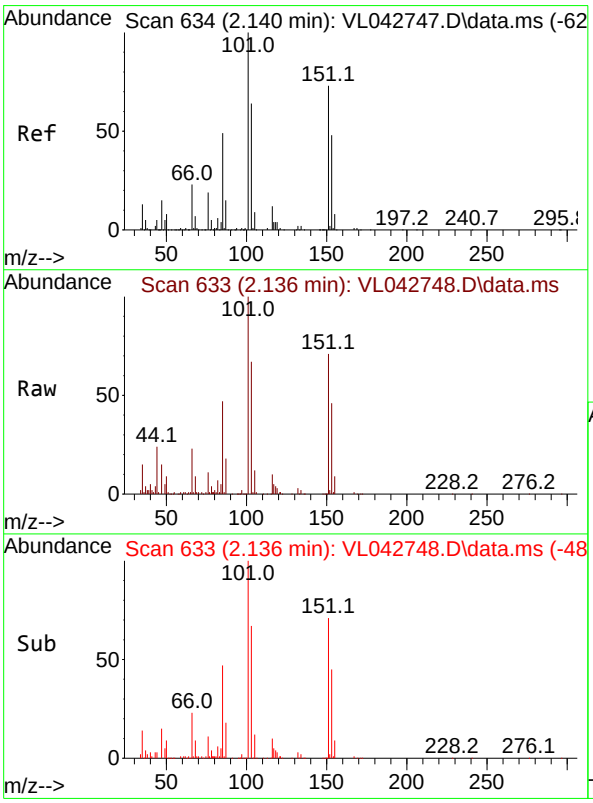
Ion	Ratio	Lower	Upper
101	100		
103	65.8	49.6	74.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

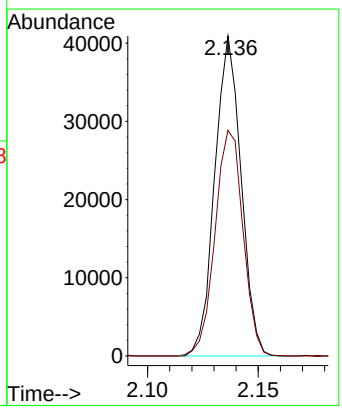
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

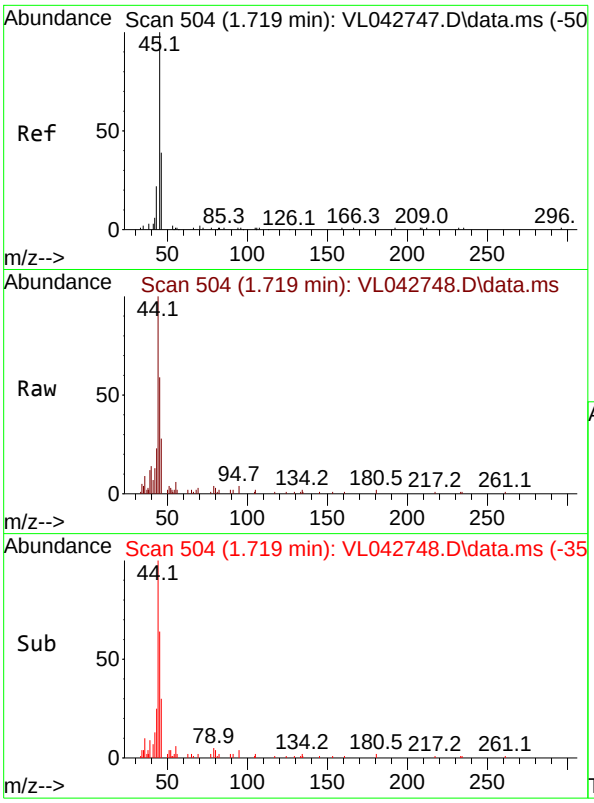


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.065 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:101 Resp: 33910

Ion	Ratio	Lower	Upper
101	100		
151	74.9	60.5	90.7

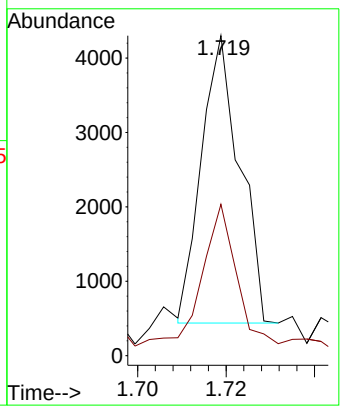




#13
Ethanol
Concen: 2.155 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 45 Resp: 232

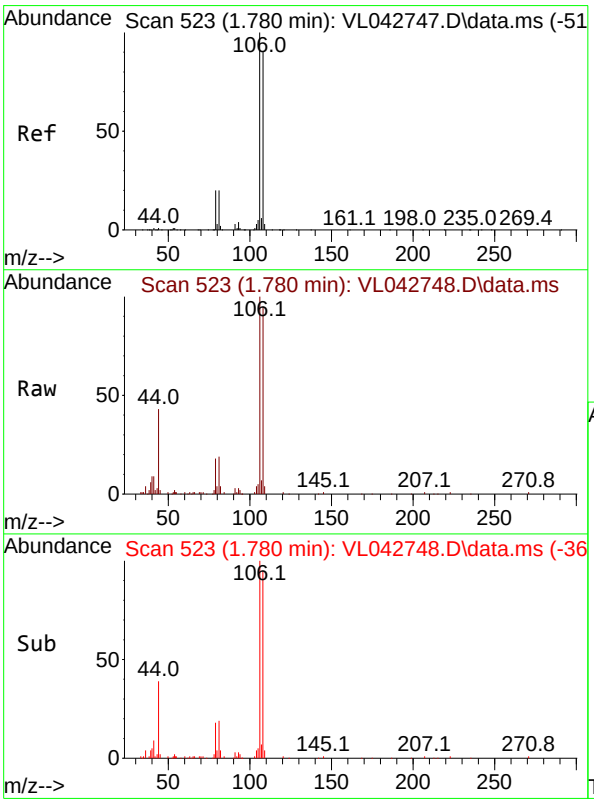
Ion	Ratio	Lower	Upper
45	100		
46	58.7	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

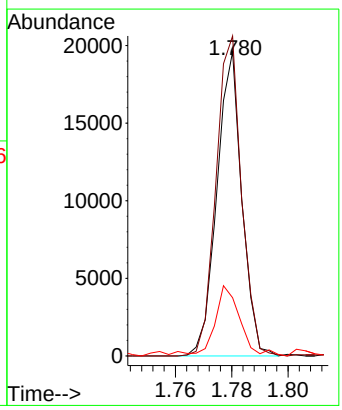
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

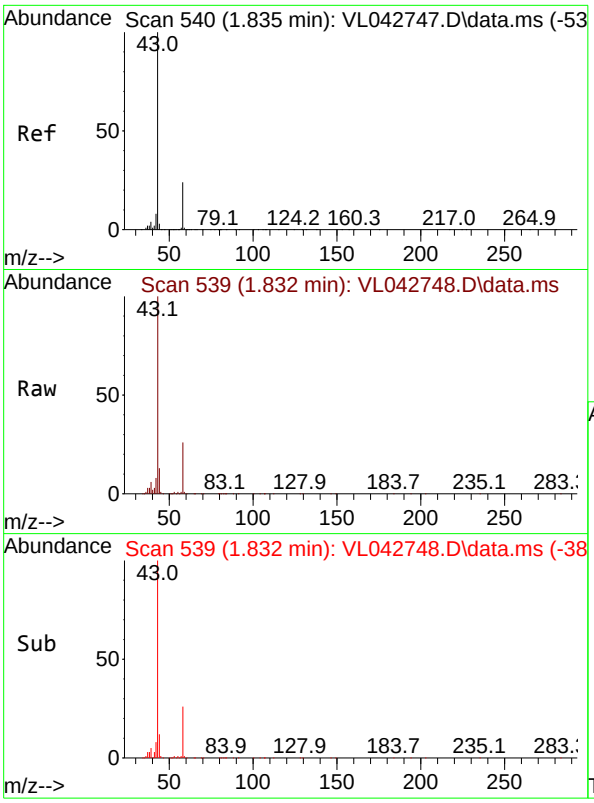


#14
Bromoethene
Concen: 2.077 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:108 Resp: 12078

Ion	Ratio	Lower	Upper
108	100		
106	107.6	84.7	127.1
79	29.2	17.4	26.2#

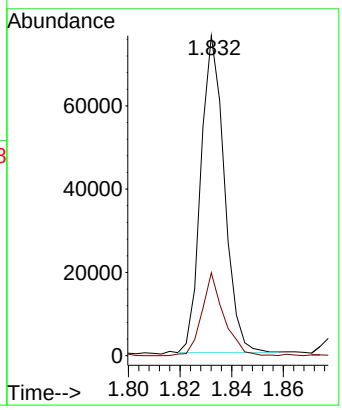




#15
Acetone
Concen: 2.202 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 43 Resp: 4822

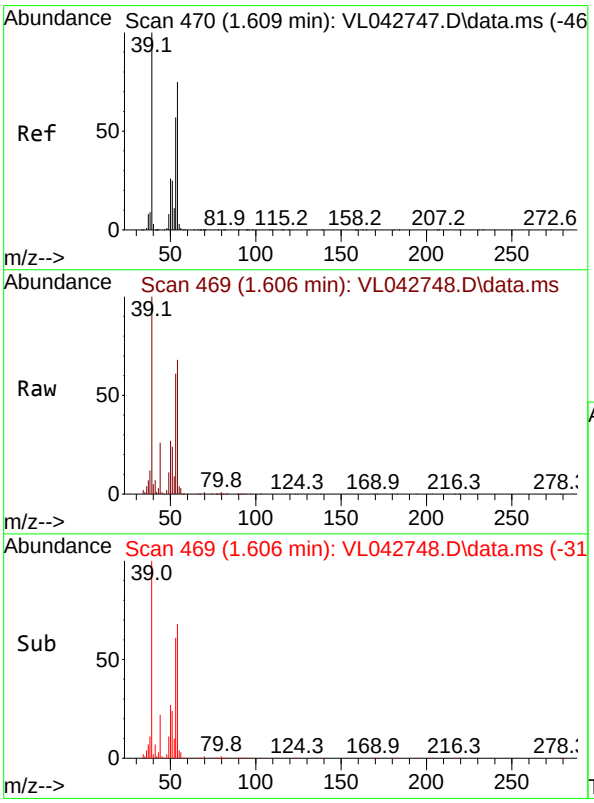
Ion	Ratio	Lower	Upper
43	100		
58	25.0	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

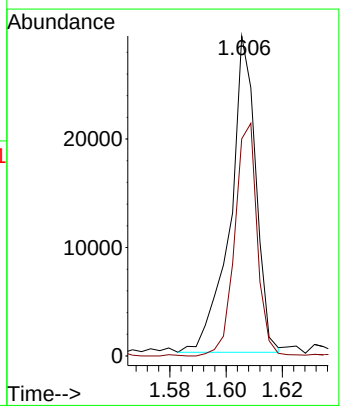
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

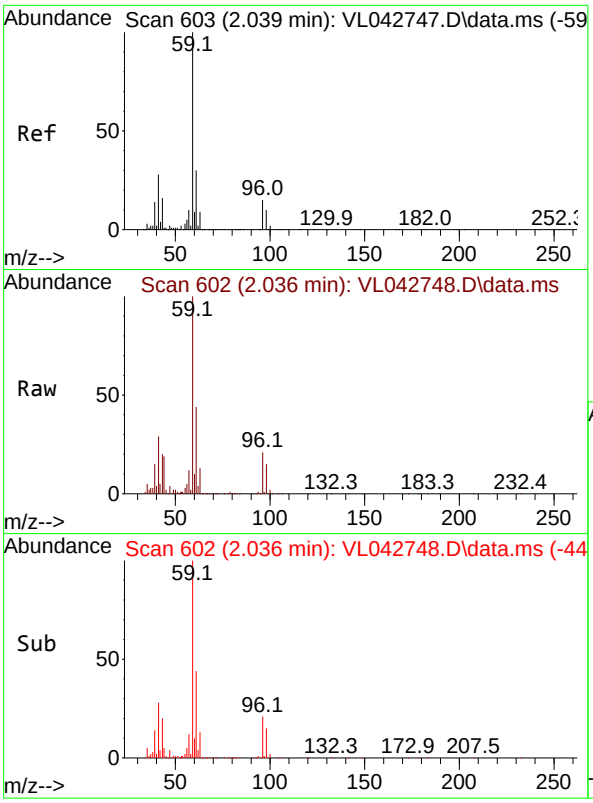


#16
1,3-Butadiene
Concen: 1.981 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 39 Resp: 18504

Ion	Ratio	Lower	Upper
39	100		
54	65.0	54.5	81.7

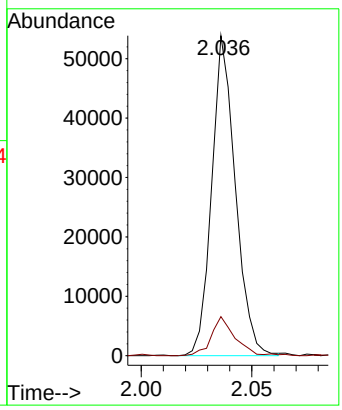




#17
tert-Butyl alcohol
Concen: 2.032 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 59 Resp: 4013

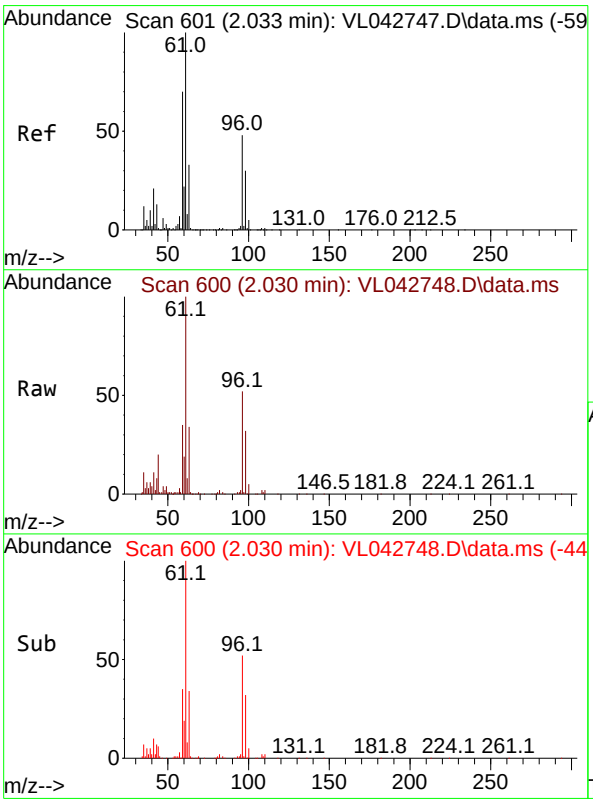
Ion	Ratio	Lower	Upper
59	100		
57	12.9	8.3	12.5#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

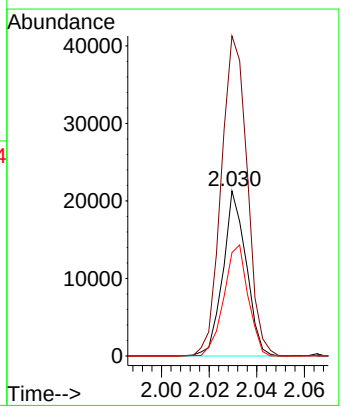
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

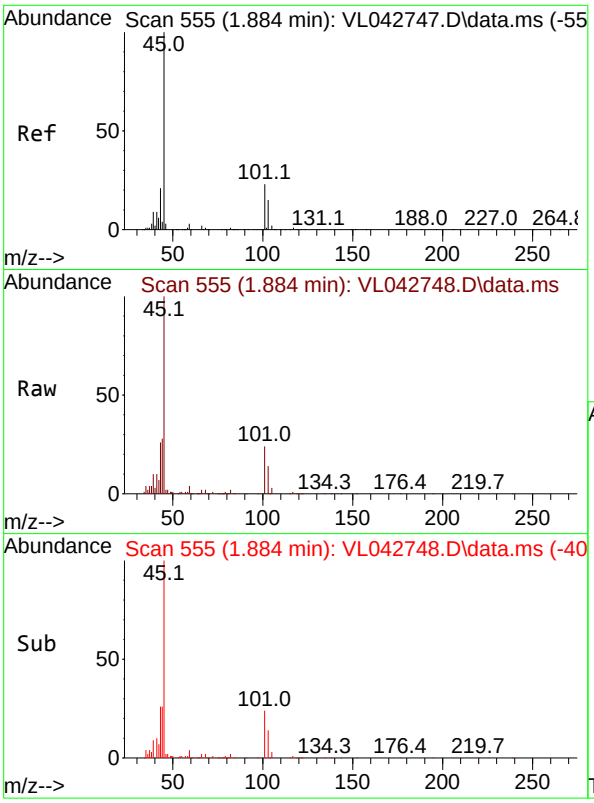


#18
1,1-Dichloroethene
Concen: 1.938 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 96 Resp: 14381

Ion	Ratio	Lower	Upper
96	100		
61	193.9	165.8	248.6
98	62.7	49.9	74.9

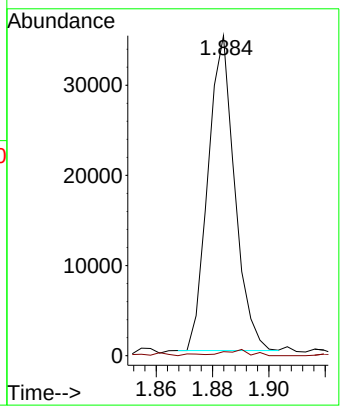




#19
Isopropyl Alcohol
Concen: 1.979 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 45 Resp: 2302

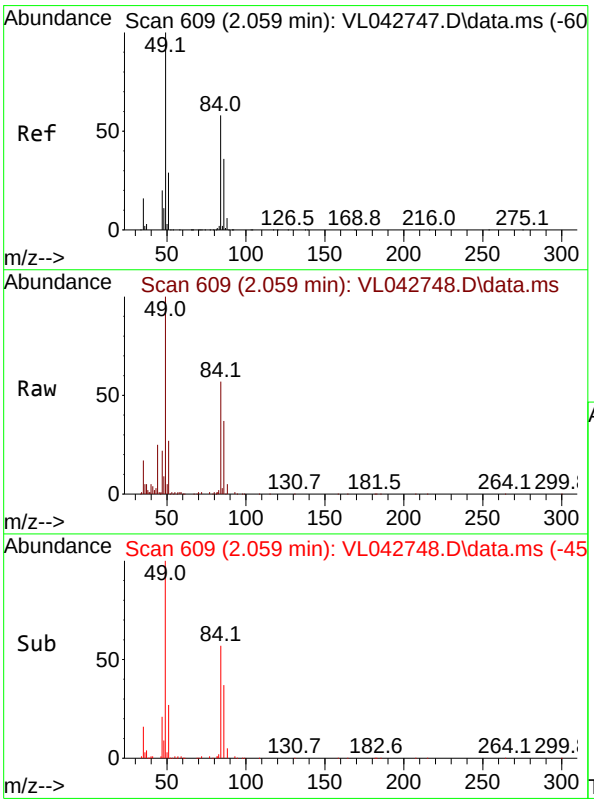
Ion	Ratio	Lower	Upper
45	100		
58	52.5	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

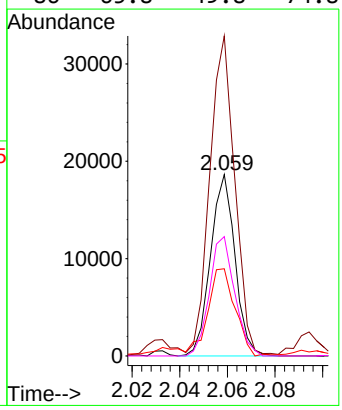
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

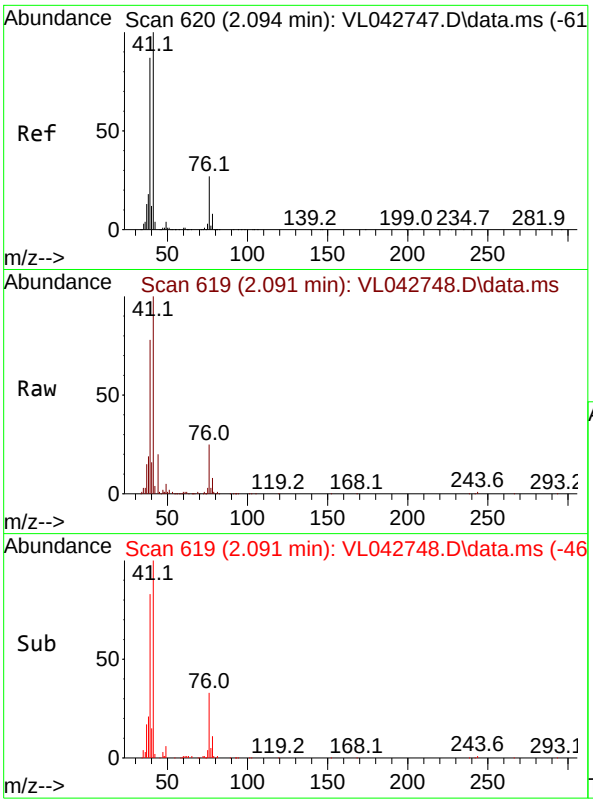


#20
Methylene Chloride
Concen: 1.927 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 84 Resp: 13296

Ion	Ratio	Lower	Upper
84	100		
49	175.4	138.6	208.0
51	47.4	40.6	61.0
86	65.8	49.8	74.8

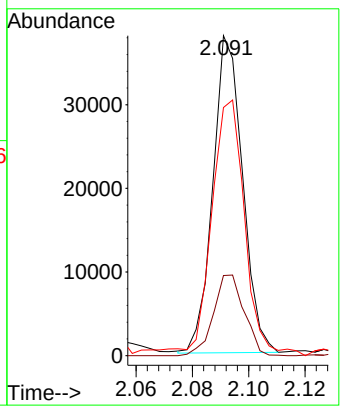




#21
Allyl Chloride
Concen: 2.059 ppbv
RT: 2.091 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 41 Resp: 2778

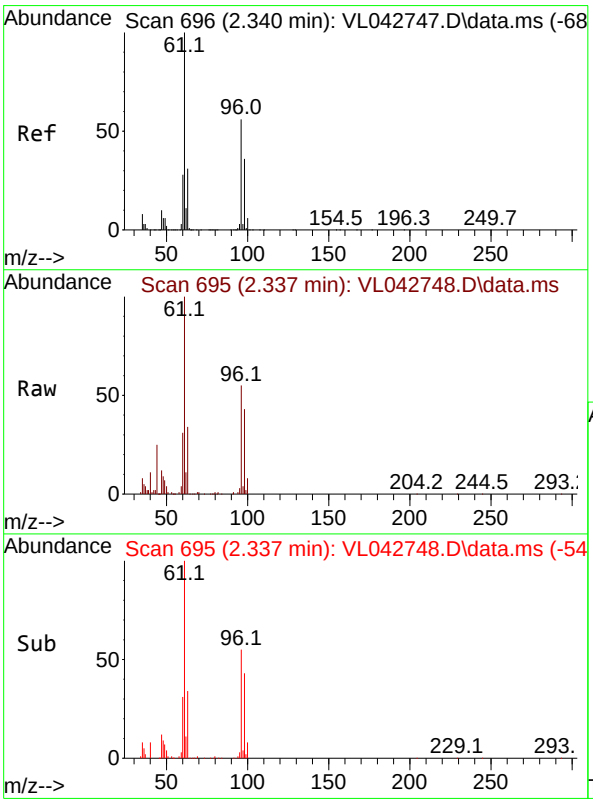
Ion	Ratio	Lower	Upper
41	100		
76	26.3	21.1	31.7
39	89.5	68.3	102.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

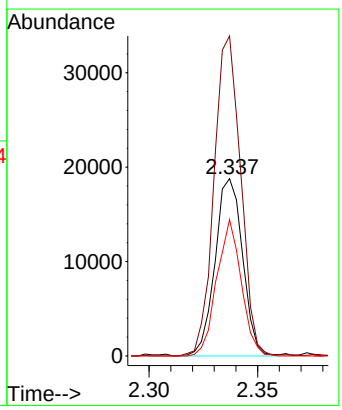
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

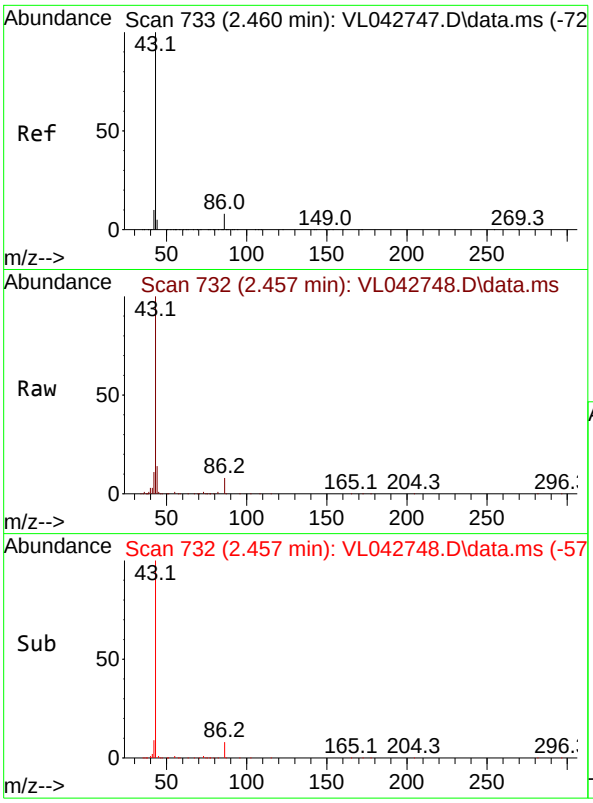


#22
trans-1,2-Dichloroethene
Concen: 2.081 ppbv m
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 96 Resp: 16591

Ion	Ratio	Lower	Upper
96	100		
61	180.5	142.3	213.5
98	76.8	50.6	76.0#

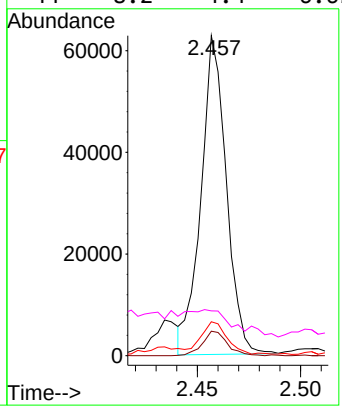




#23
Vinyl Acetate
Concen: 2.017 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 43 Resp: 5354

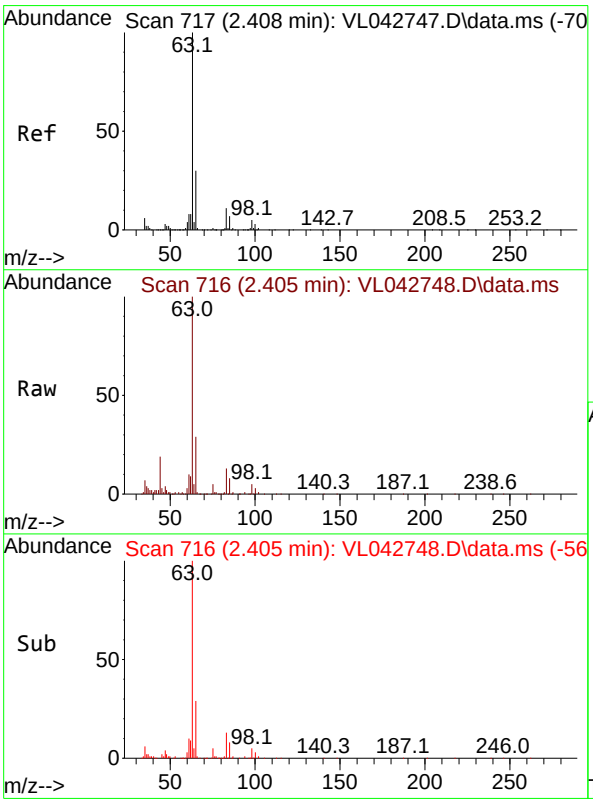
Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.1	9.1
42	10.1	7.8	11.8
44	8.2	4.4	6.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

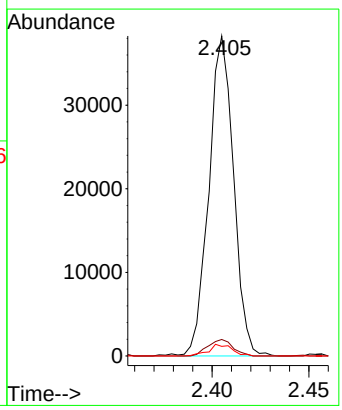
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

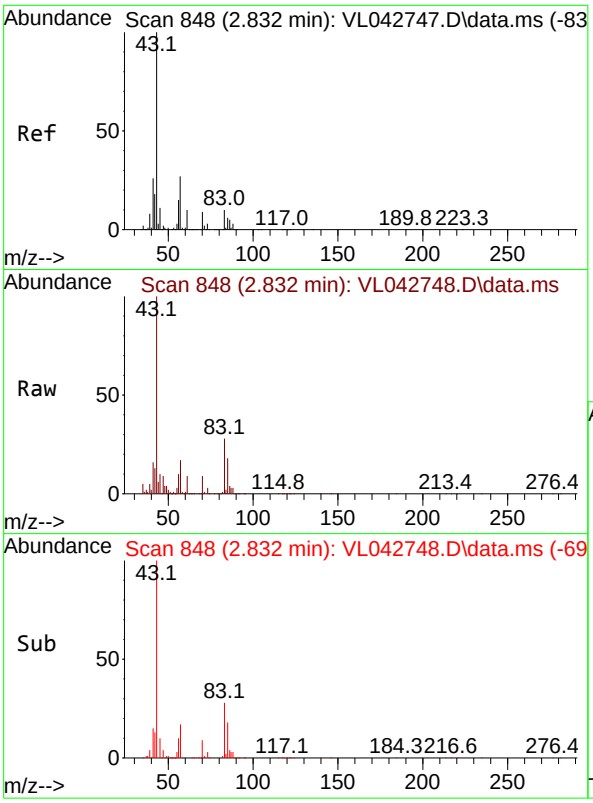


#24
1,1-Dichloroethane
Concen: 2.073 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 63 Resp: 33969

Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.5	7.4
100	3.0	1.6	4.8

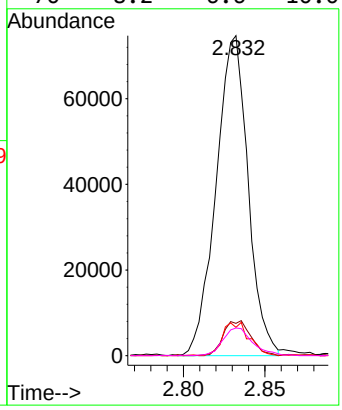




#25
Ethyl Acetate
Concen: 2.101 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 43 Resp: 10185

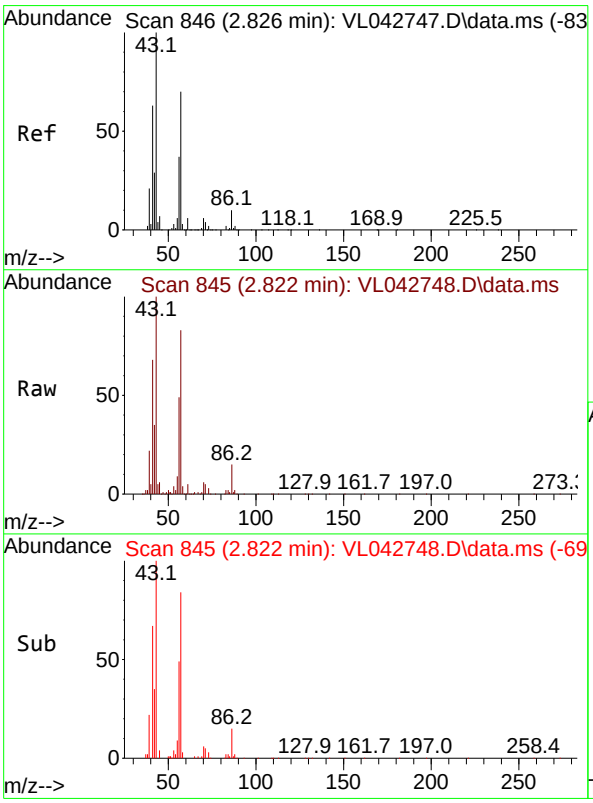
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	8.9	6.7	10.1
70	8.2	6.6	10.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

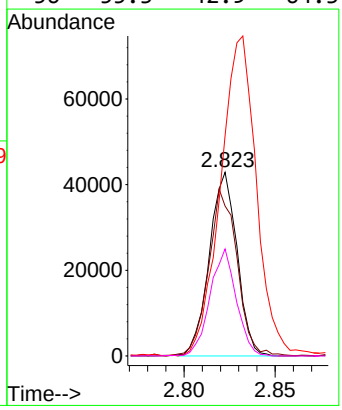
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

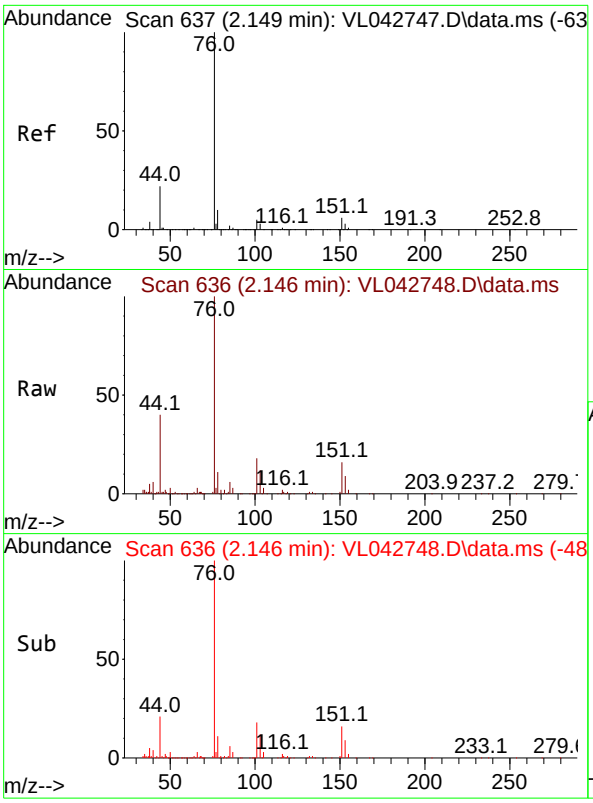


#26
Hexane
Concen: 2.137 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 57 Resp: 45446

Ion	Ratio	Lower	Upper
57	100		
41	94.1	75.4	113.2
43	230.2	185.0	277.6
56	55.3	42.9	64.3

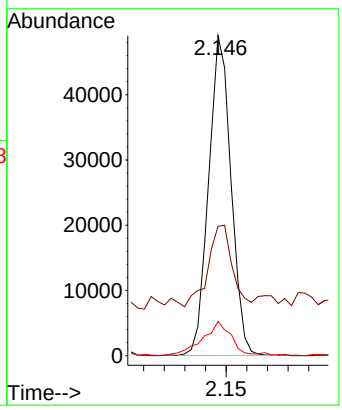




#27
Carbon Disulfide
Concen: 2.030 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 76 Resp: 3694

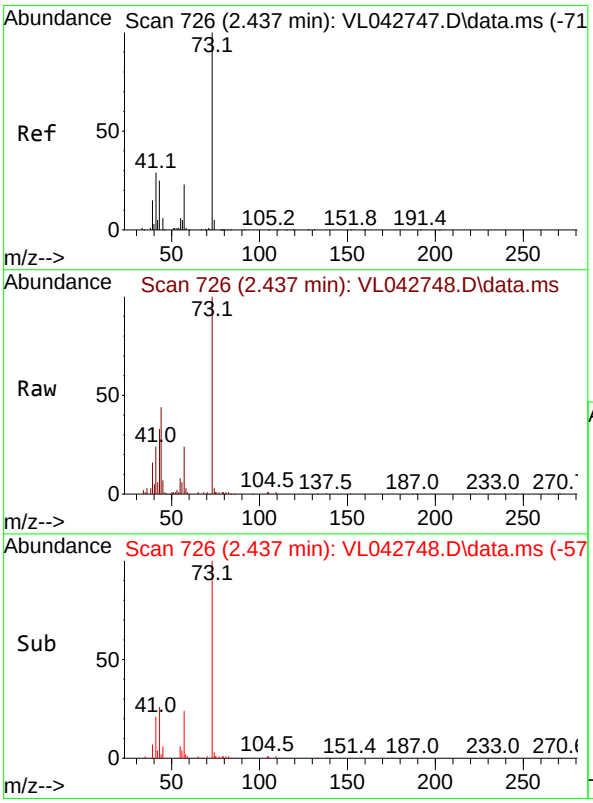
Ion	Ratio	Lower	Upper
76	100		
44	71.1	19.3	28.9
78	13.6	9.9	14.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

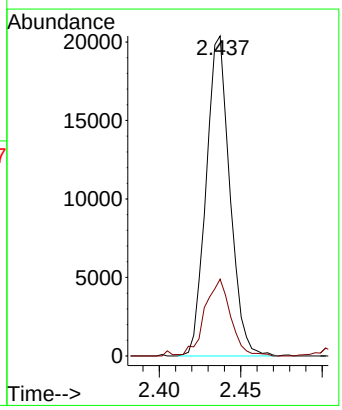
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

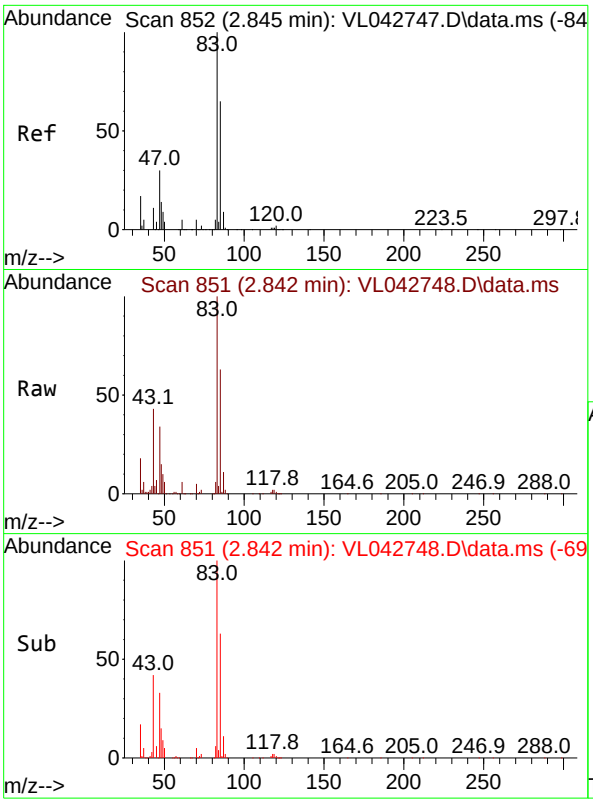


#28
Methyl tert-Butyl Ether
Concen: 2.051 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 73 Resp: 20603

Ion	Ratio	Lower	Upper
73	100		
57	26.7	19.8	29.8

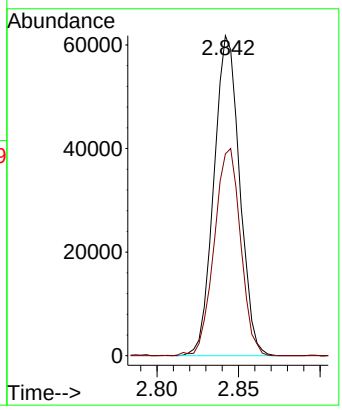




#29
Chloroform
Concen: 2.062 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 83 Resp: 6775

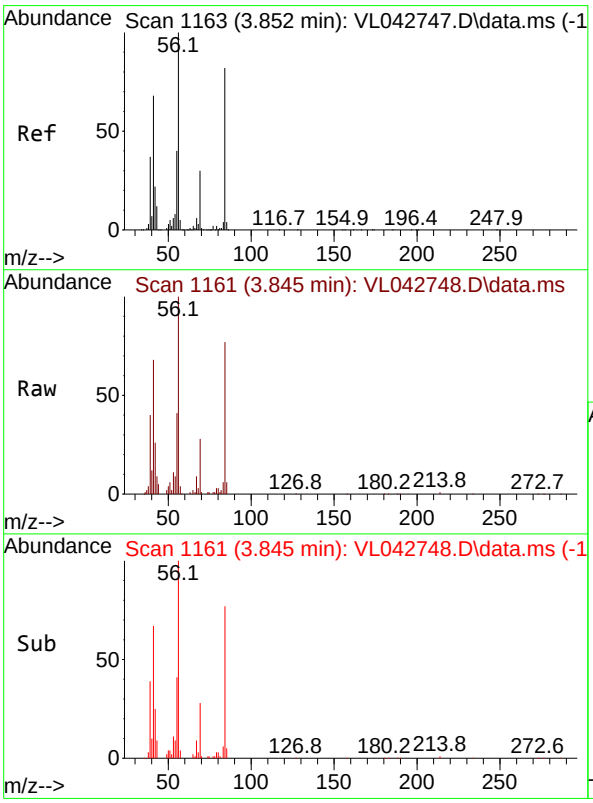
Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.2	78.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

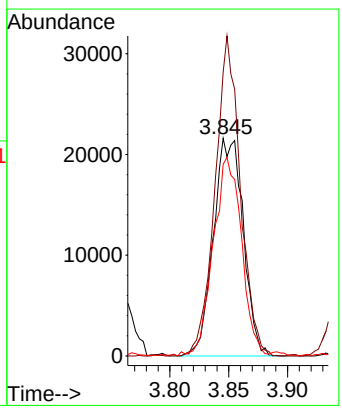
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

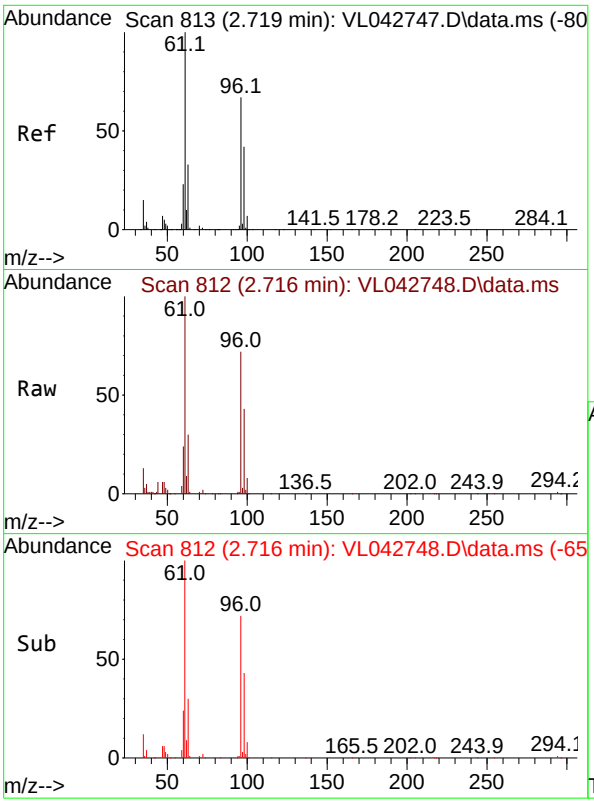


#30
Cyclohexane
Concen: 2.113 ppbv m
RT: 3.845 min Scan# 1161
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 84 Resp: 38095

Ion	Ratio	Lower	Upper
84	100		
56	124.9	97.5	146.3
41	87.4	67.2	100.8

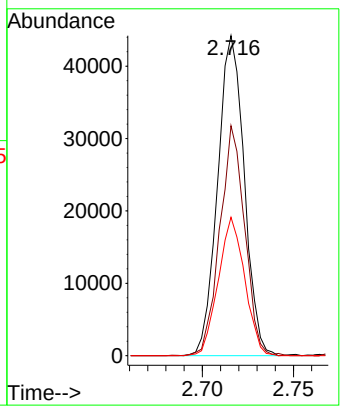




#31
cis-1,2-Dichloroethene
Concen: 2.053 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 61 Resp: 4486

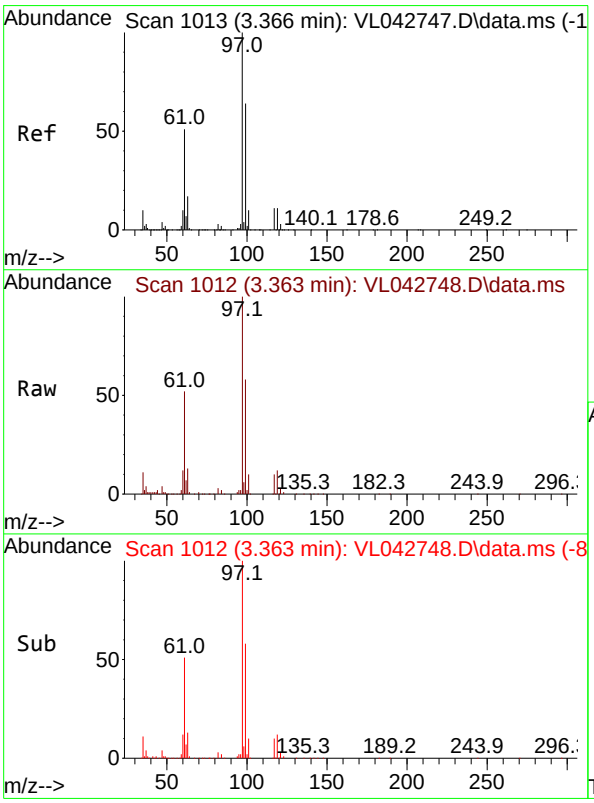
Ion	Ratio	Lower	Upper
61	100		
96	71.8	53.5	80.3
98	43.3	33.6	50.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

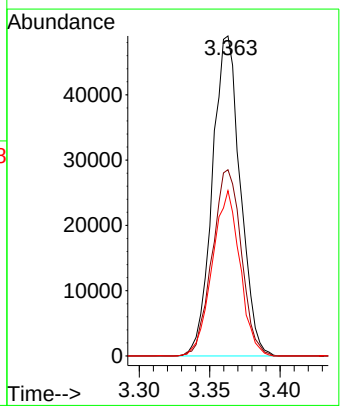
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

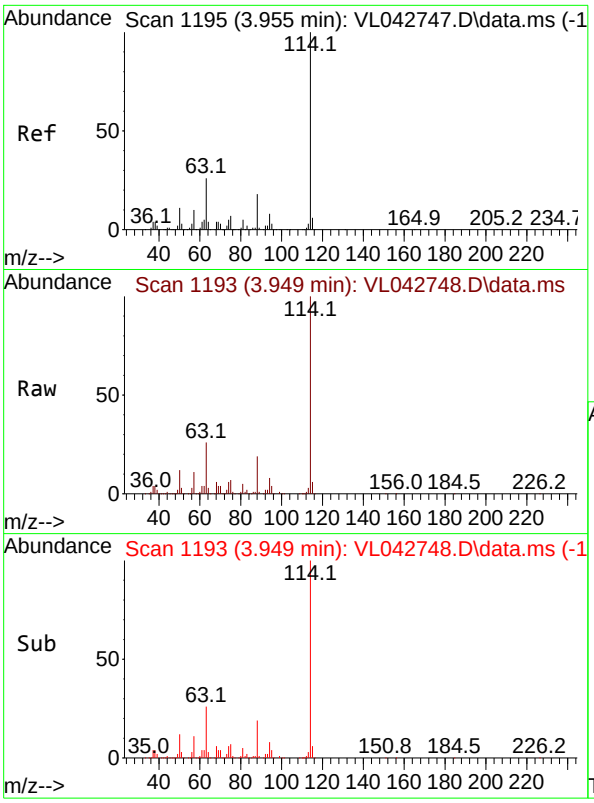


#32
1,1,1-Trichloroethane
Concen: 1.976 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 97 Resp: 67608

Ion	Ratio	Lower	Upper
97	100		
99	60.8	51.0	76.6
61	51.3	40.9	61.3

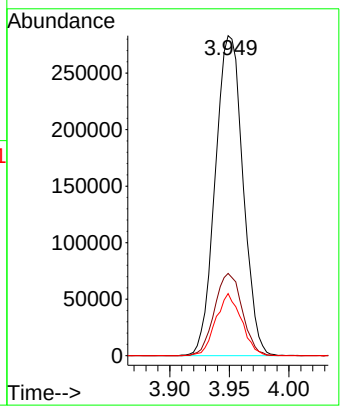




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:114 Resp: 45780

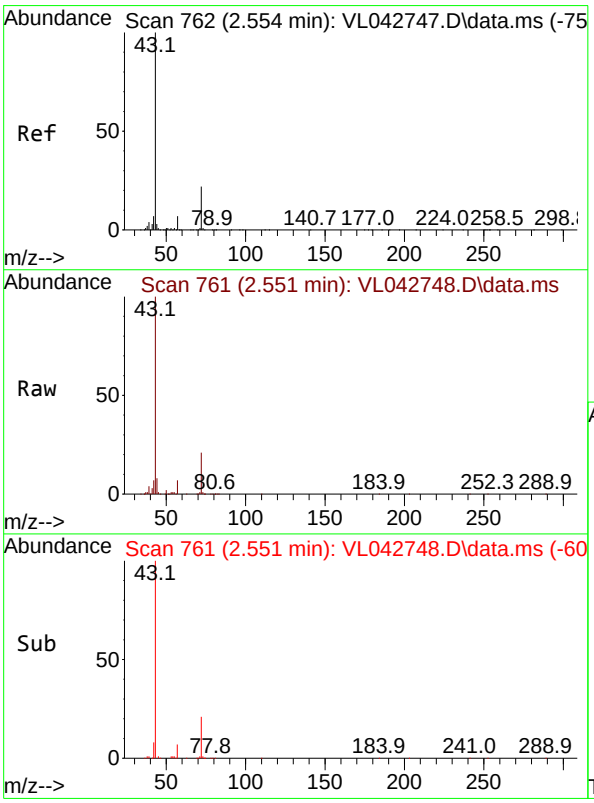
Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.5	30.7
88	18.0	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

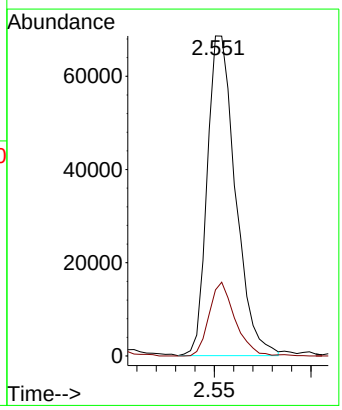
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

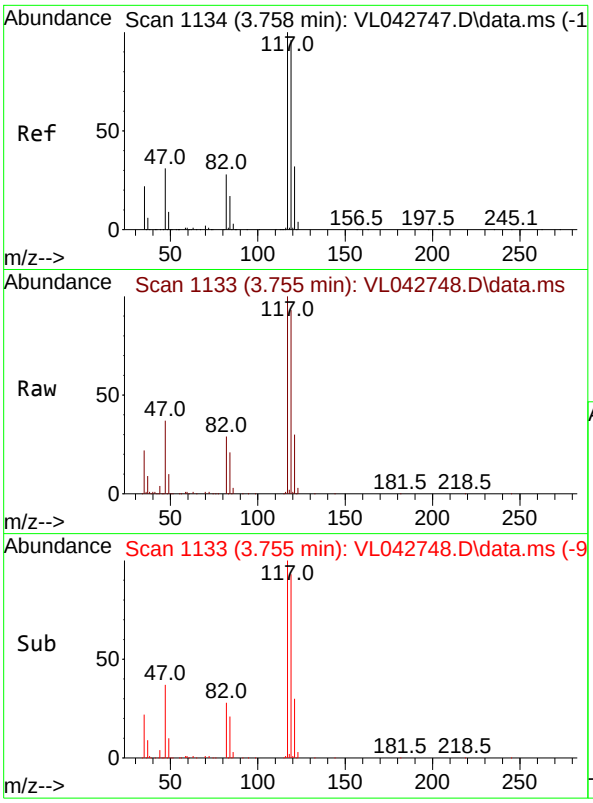


#34
2-Butanone
Concen: 2.149 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 43 Resp: 69674

Ion	Ratio	Lower	Upper
43	100		
72	21.2	17.4	26.0

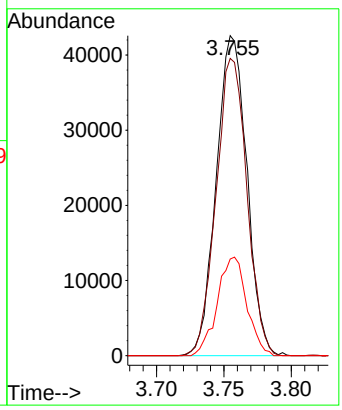




#35
Carbon Tetrachloride
Concen: 1.979 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:117 Resp: 6733

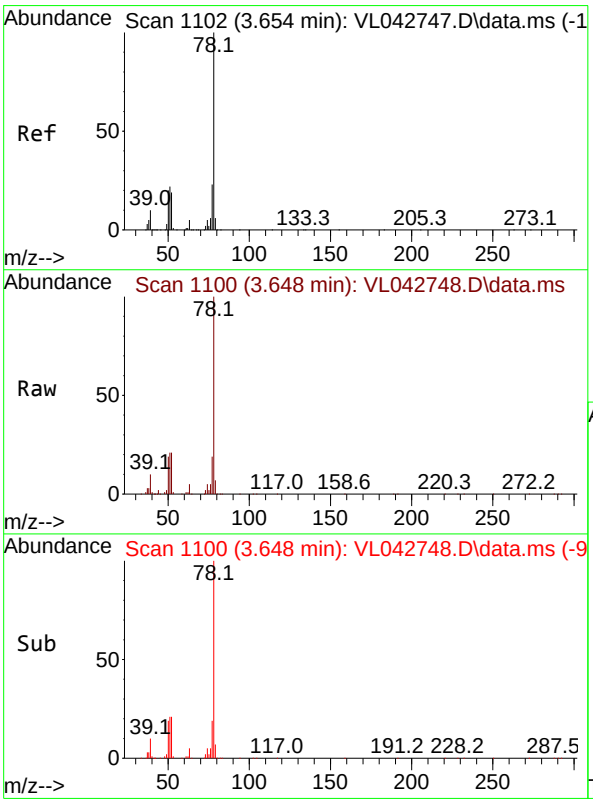
Ion	Ratio	Lower	Upper
117	100		
119	92.9	77.1	115.7
121	30.2	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

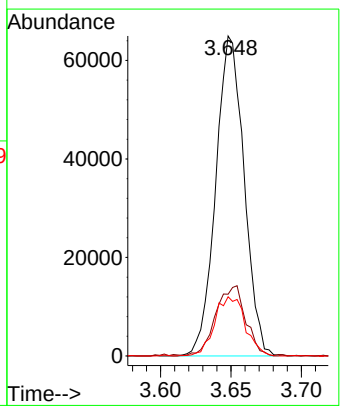
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

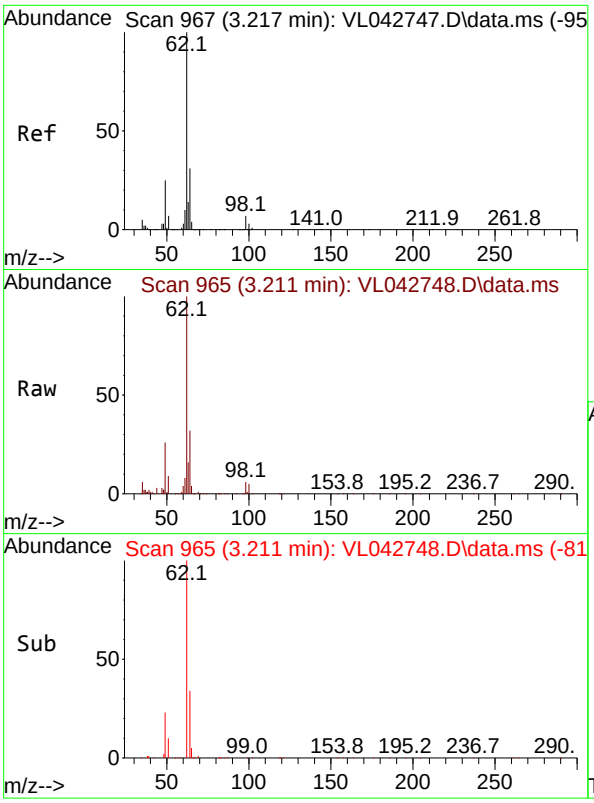


#36
Benzene
Concen: 2.101 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 78 Resp: 91141

Ion	Ratio	Lower	Upper
78	100		
77	19.0	18.5	27.7
50	18.5	16.2	24.2

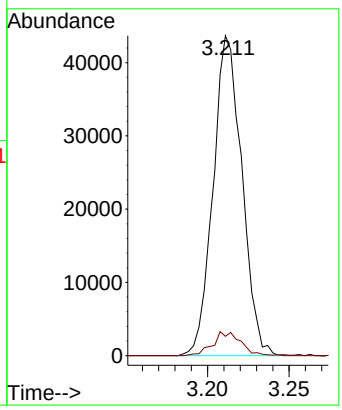




#37
1,2-Dichloroethane
Concen: 2.046 ppbv
RT: 3.211 min Scan# 9
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 62 Resp: 5348

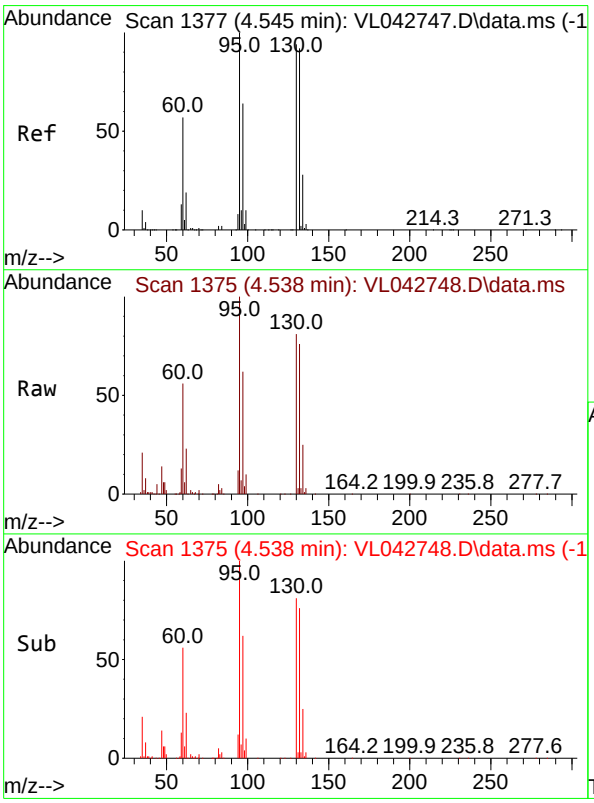
Ion	Ratio	Lower	Upper
62	100		
98	7.3	5.2	7.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

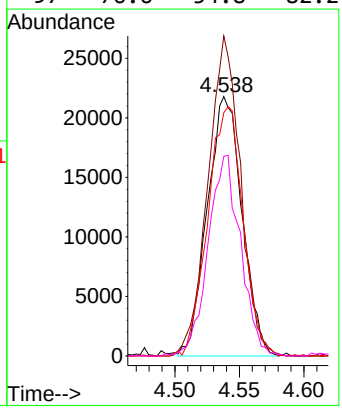
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

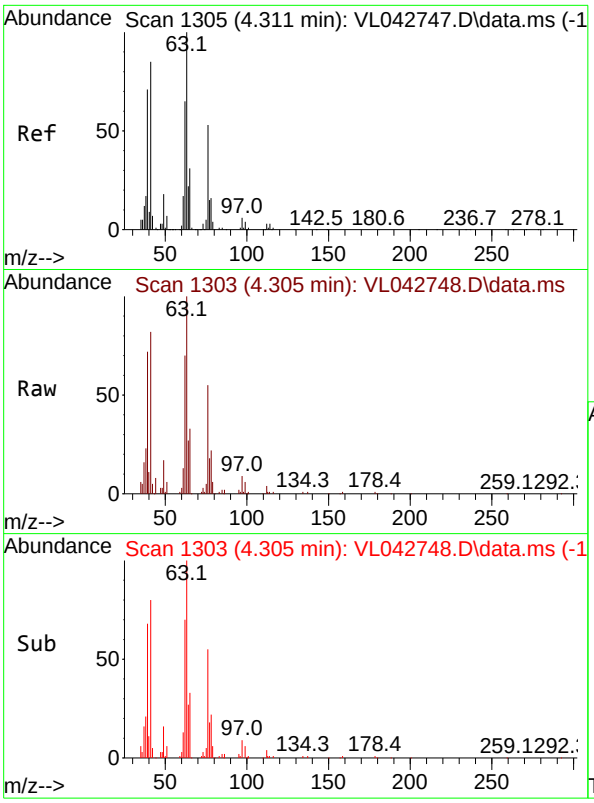


#38
Trichloroethene
Concen: 1.946 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:130 Resp: 40713

Ion	Ratio	Lower	Upper
130	100		
95	122.9	85.4	128.2
132	94.1	78.2	117.2
97	76.6	54.8	82.2

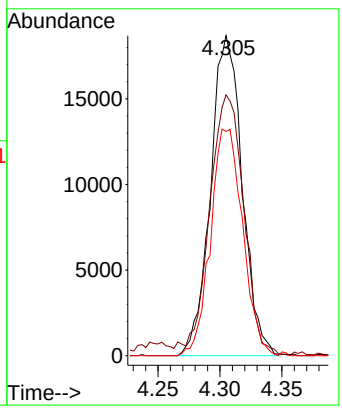




#39
1,2-Dichloropropane
Concen: 2.075 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 63 Resp: 3322

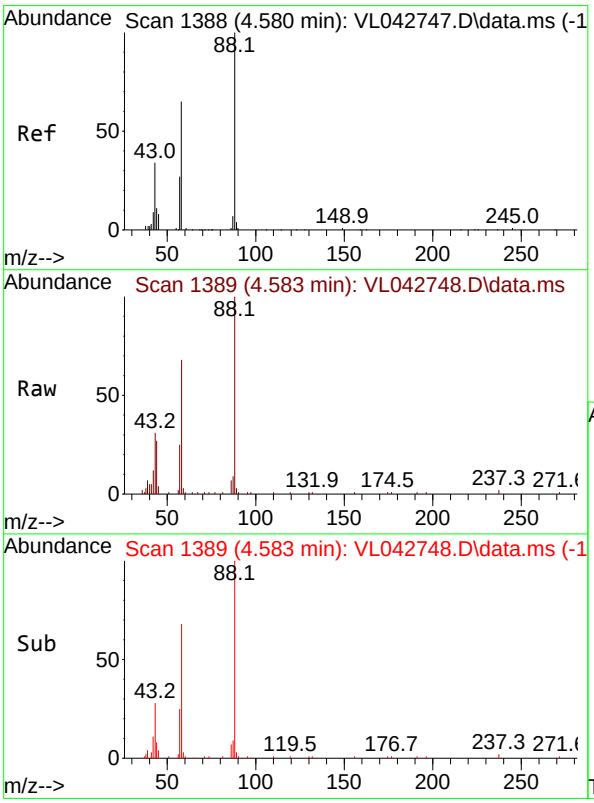
Ion	Ratio	Lower	Upper
63	100		
41	80.8	68.2	102.4
62	70.1	52.0	78.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

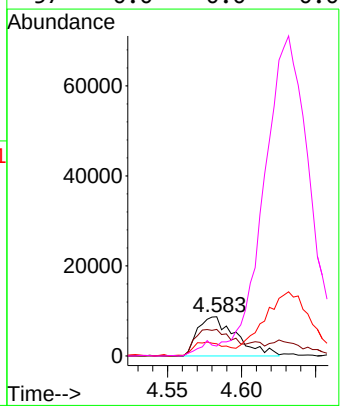
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

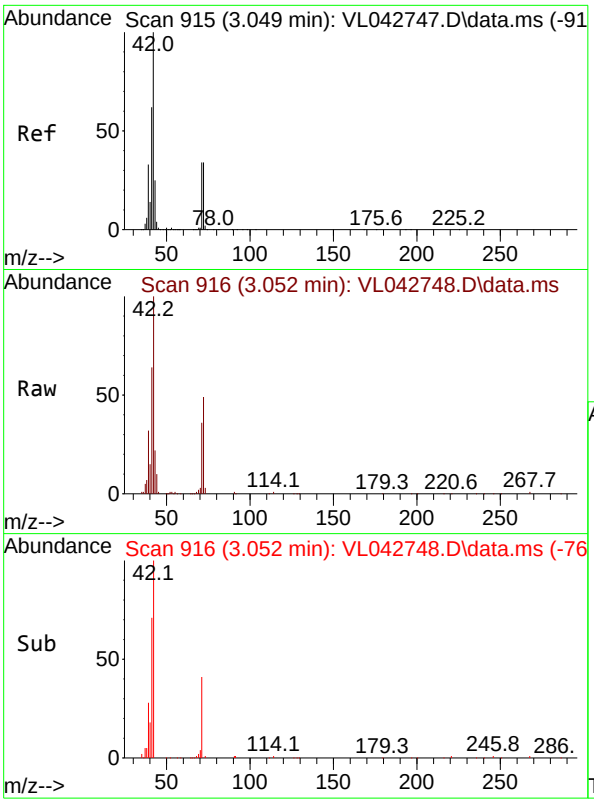


#40
1,4-Dioxane
Concen: 2.104 ppbv m
RT: 4.583 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 88 Resp: 15890

Ion	Ratio	Lower	Upper
88	100		
58	80.9	58.8	88.2
43	0.0	28.9	43.3#
57	0.0	0.0	0.0

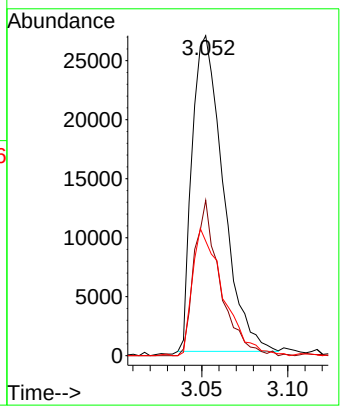




#41
Tetrahydrofuran
Concen: 2.064 ppbv
RT: 3.052 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 42 Resp: 3361

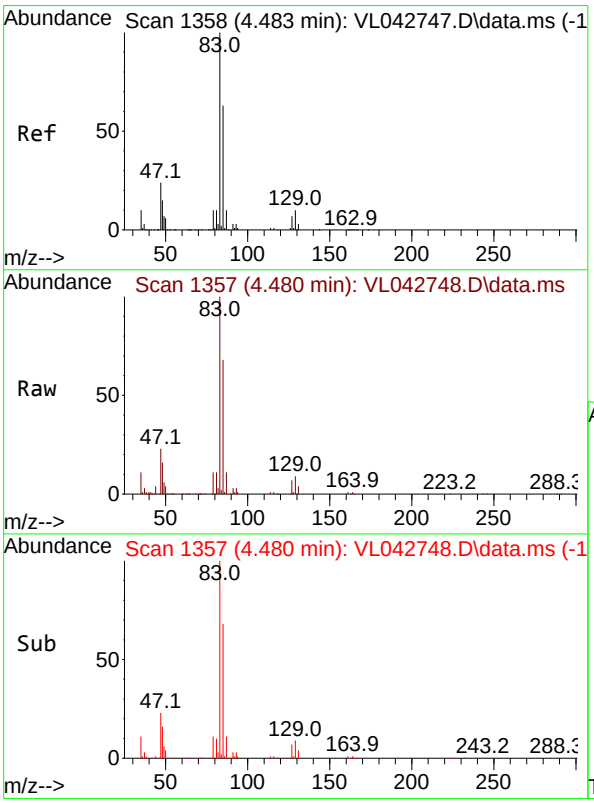
Ion	Ratio	Lower	Upper
42	100		
72	41.3	30.9	46.3
71	40.4	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

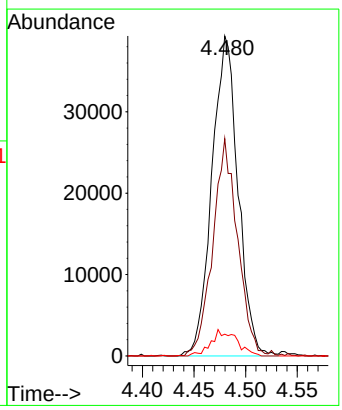
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

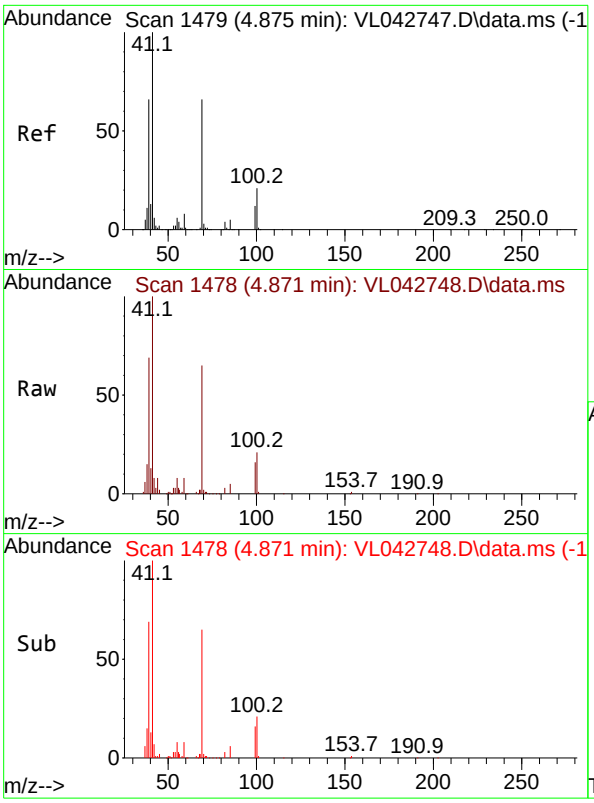


#42
Bromodichloromethane
Concen: 2.028 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 83 Resp: 69093

Ion	Ratio	Lower	Upper
83	100		
85	67.9	50.2	75.4
127	6.8	5.4	8.2

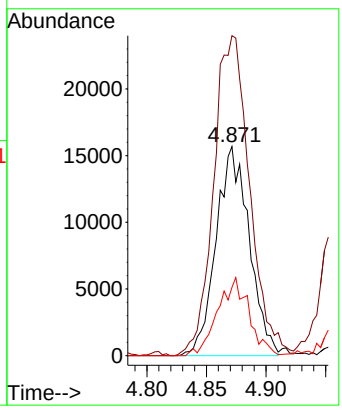




#43
Methyl Methacrylate
Concen: 1.967 ppbv
RT: 4.871 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 69 Resp: 3033

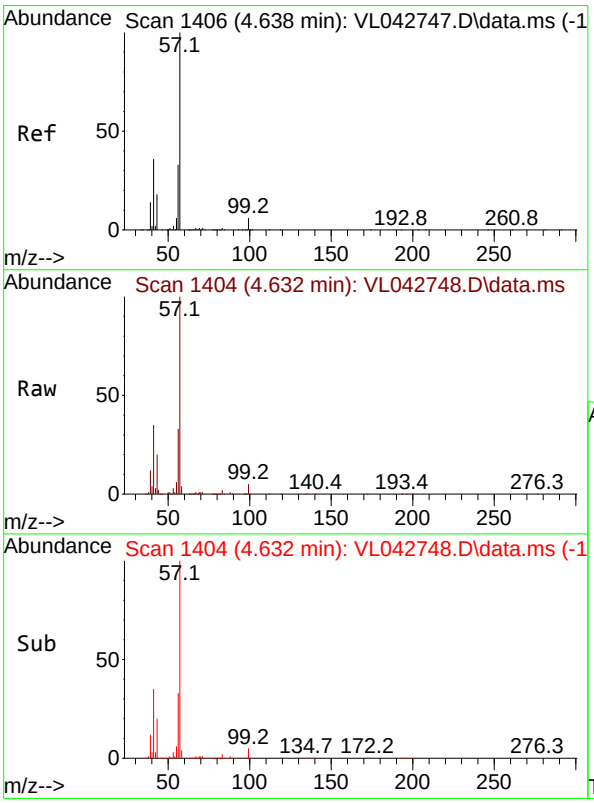
Ion	Ratio	Lower	Upper
69	100		
41	164.3	125.7	188.5
100	35.5	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

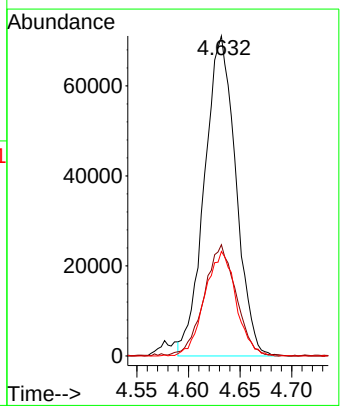
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

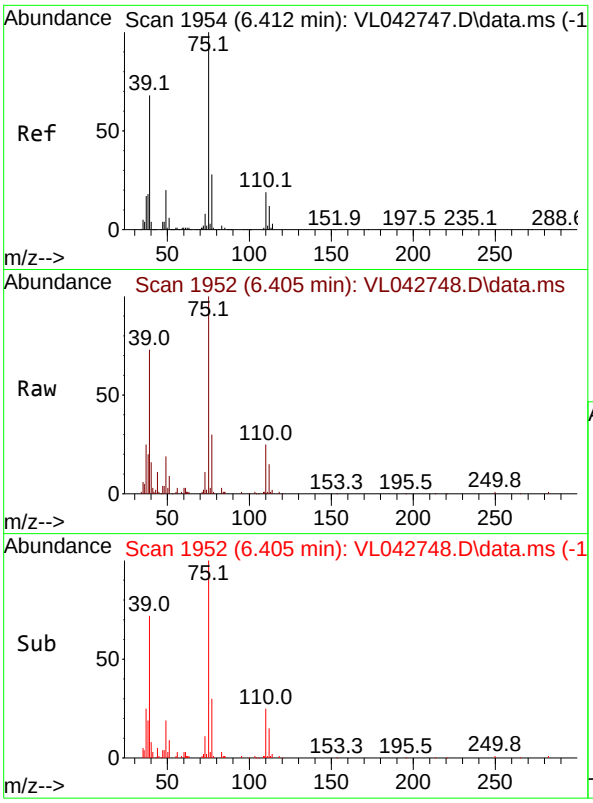


#44
2,2,4-Trimethylpentane
Concen: 2.115 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 57 Resp: 149588

Ion	Ratio	Lower	Upper
57	100		
41	36.0	28.3	42.5
56	32.9	25.8	38.6

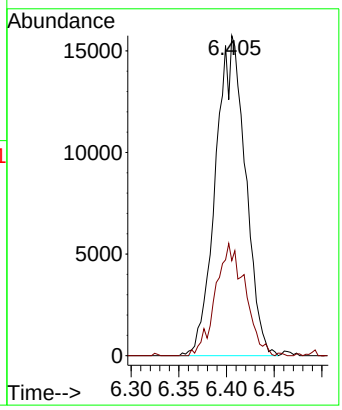




#45
t-1,3-Dichloropropene
Concen: 1.984 ppbv m
RT: 6.405 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 75 Resp: 3433

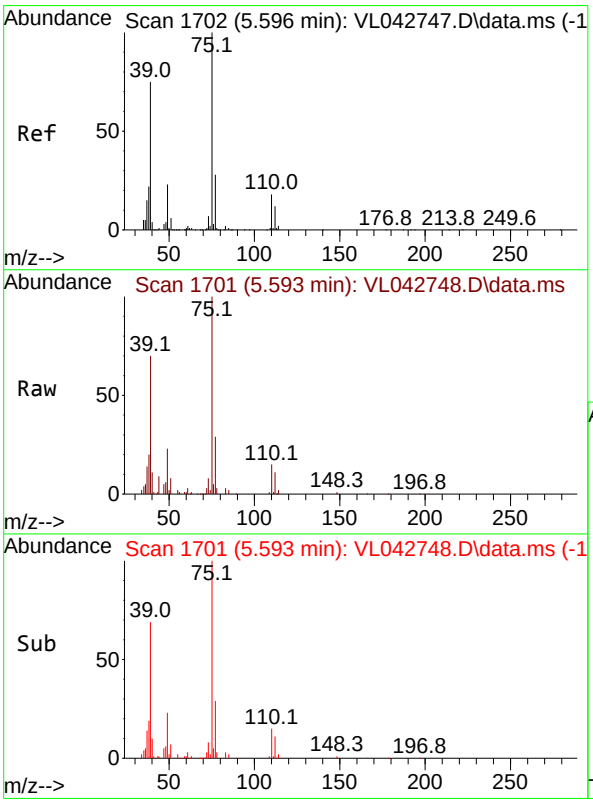
Ion	Ratio	Lower	Upper
75	100		
77	29.7	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

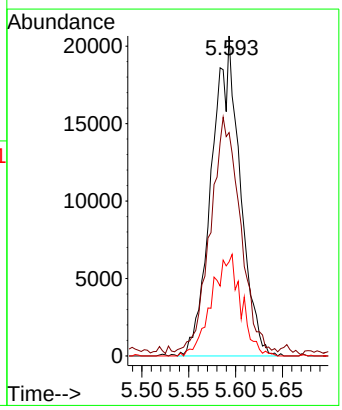
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

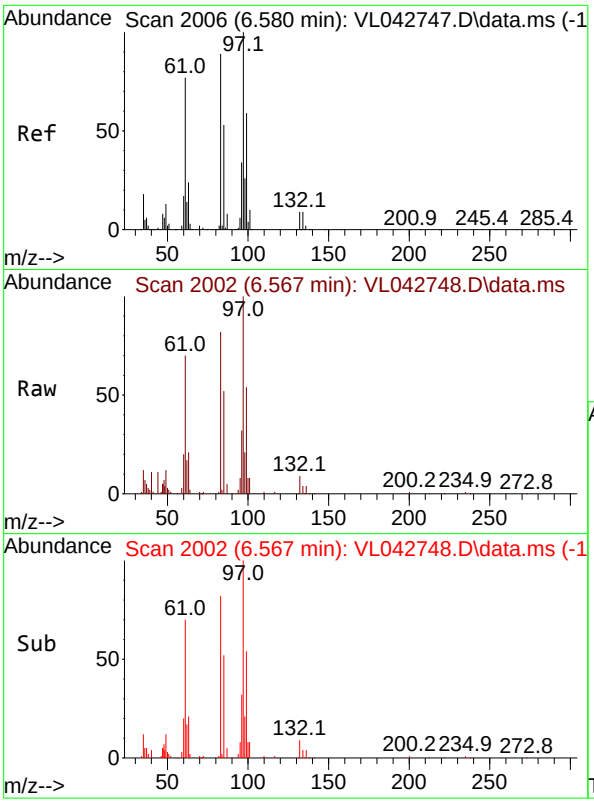


#46
cis-1,3-Dichloropropene
Concen: 2.000 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 75 Resp: 43845

Ion	Ratio	Lower	Upper
75	100		
39	69.8	60.2	90.2
77	29.4	22.6	34.0

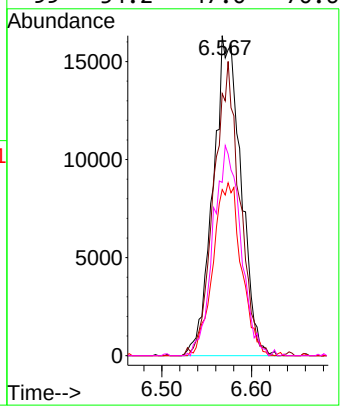




#47
1,1,2-Trichloroethane
Concen: 2.063 ppbv m
RT: 6.567 min Scan# 2
Delta R.T. -0.013 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 97 Resp: 3522

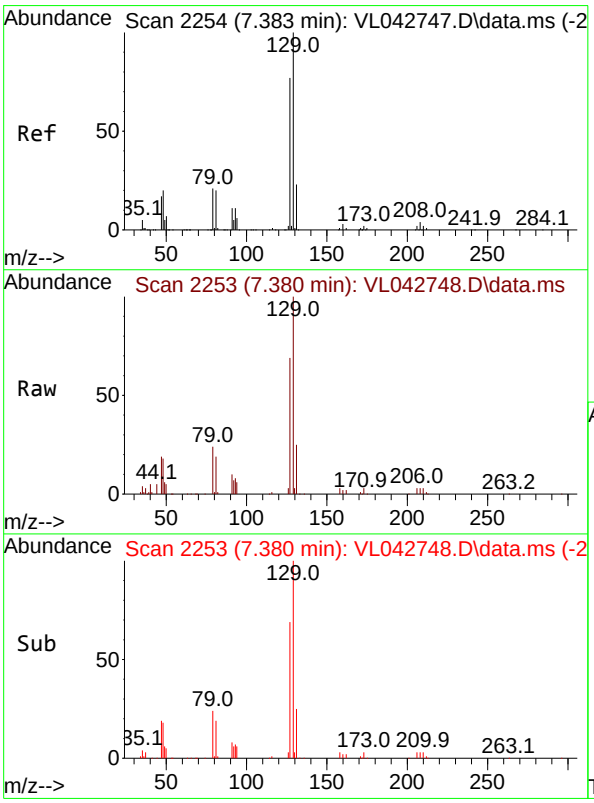
Ion	Ratio	Lower	Upper
97	100		
83	81.9	71.1	106.7
85	51.9	43.0	64.4
99	54.2	47.0	70.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

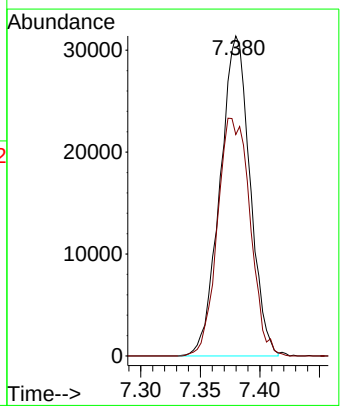
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

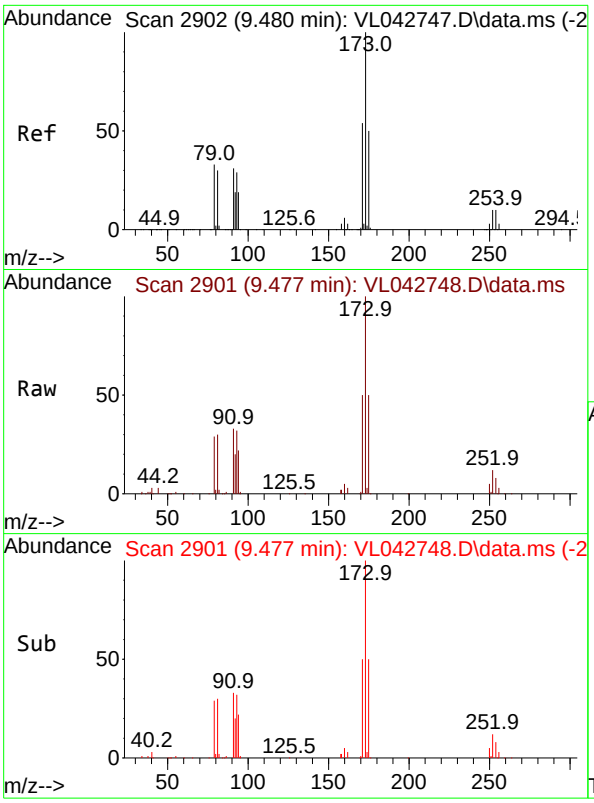


#48
Dibromochloromethane
Concen: 2.026 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:129 Resp: 54906

Ion	Ratio	Lower	Upper
129	100		
127	80.8	38.7	116.1

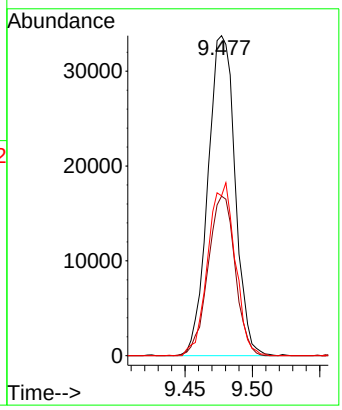




#49
Bromoform
Concen: 2.003 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:173 Resp: 4734

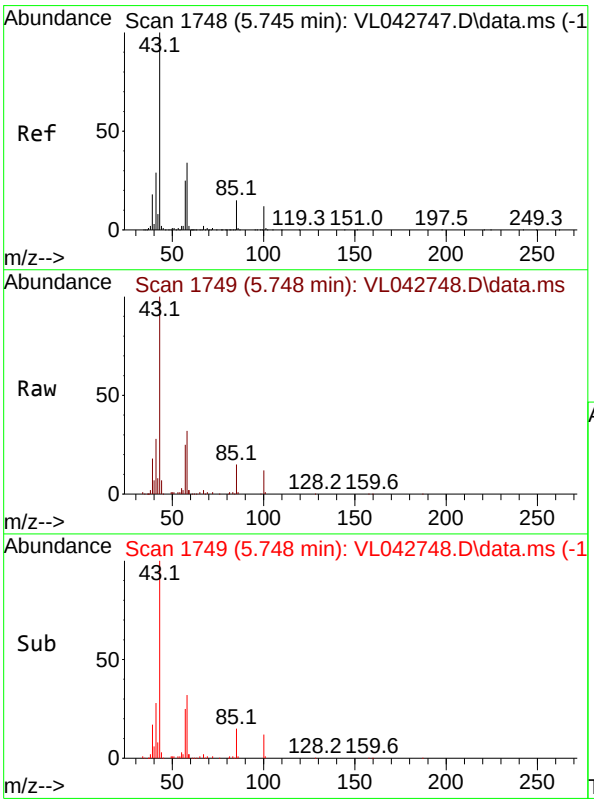
Ion	Ratio	Lower	Upper
173	100		
175	49.7	38.4	57.6
171	54.2	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

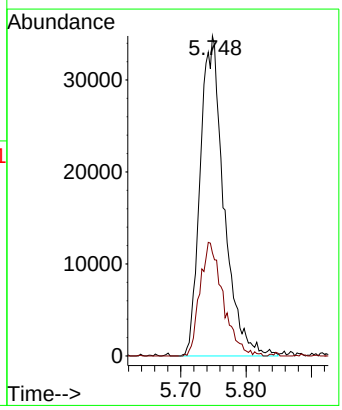
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

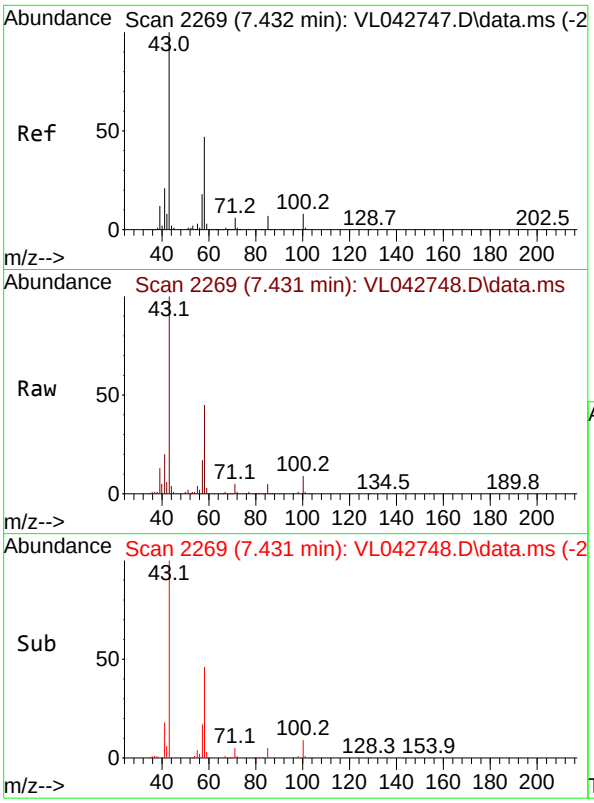


#50
4-Methyl-2-Pentanone
Concen: 2.120 ppbv m
RT: 5.748 min Scan# 1749
Delta R.T. 0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 43 Resp: 87566

Ion	Ratio	Lower	Upper
43	100		
58	34.8	27.8	41.8





#51
2-Hexanone
Concen: 2.157 ppbv
RT: 7.431 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

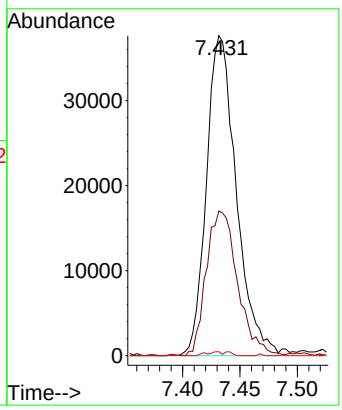
Tgt Ion: 43 Resp: 6809

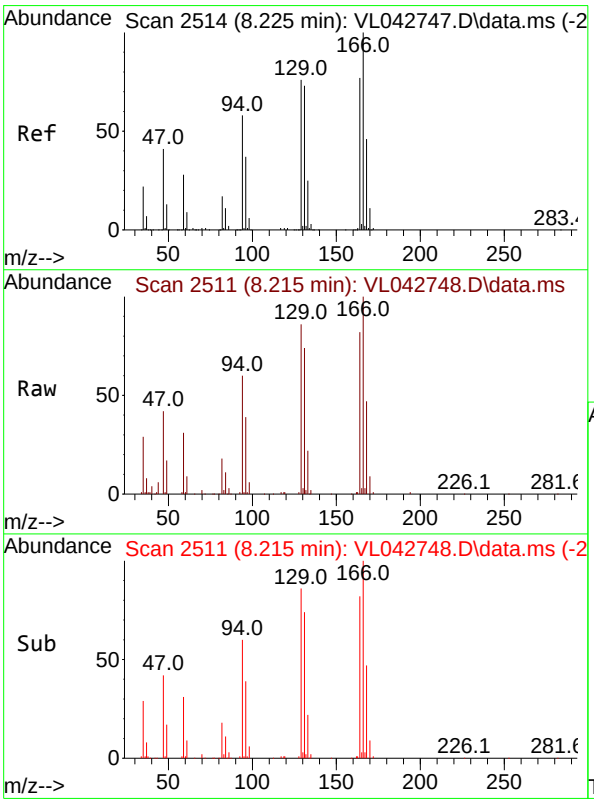
Ion	Ratio	Lower	Upper
43	100		
58	48.2	38.0	57.0
98	1.0	0.2	0.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

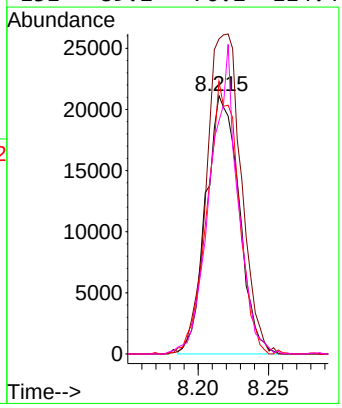


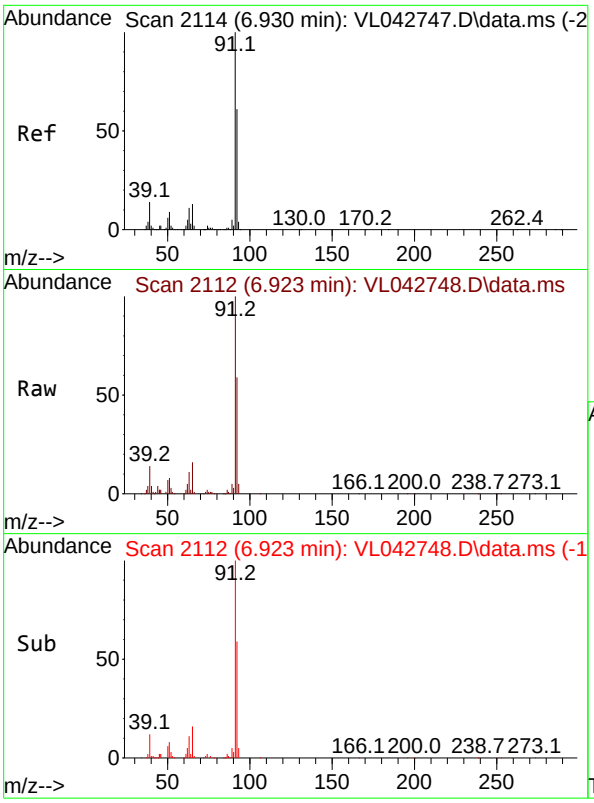


#52
Tetrachloroethene
Concen: 1.917 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:164 Resp: 34568

Ion	Ratio	Lower	Upper
164	100		
166	121.7	104.0	156.0
129	103.9	79.2	118.8
131	89.2	76.2	114.4

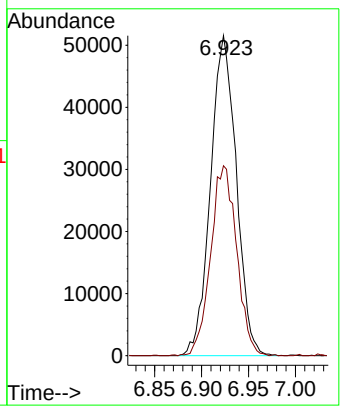




#53
Toluene
Concen: 2.111 ppbv
RT: 6.923 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 9834

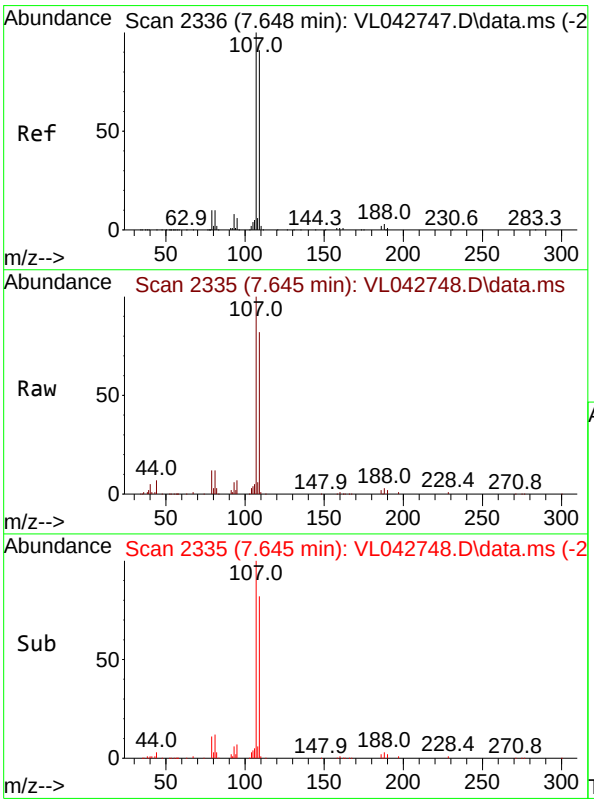
Ion	Ratio	Lower	Upper
91	100		
92	59.8	48.0	72.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

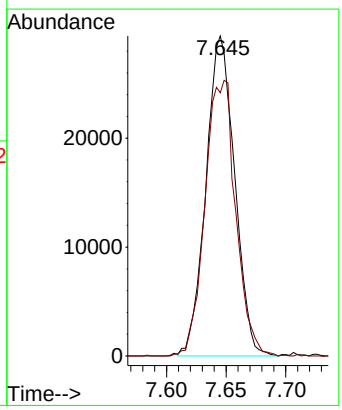
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

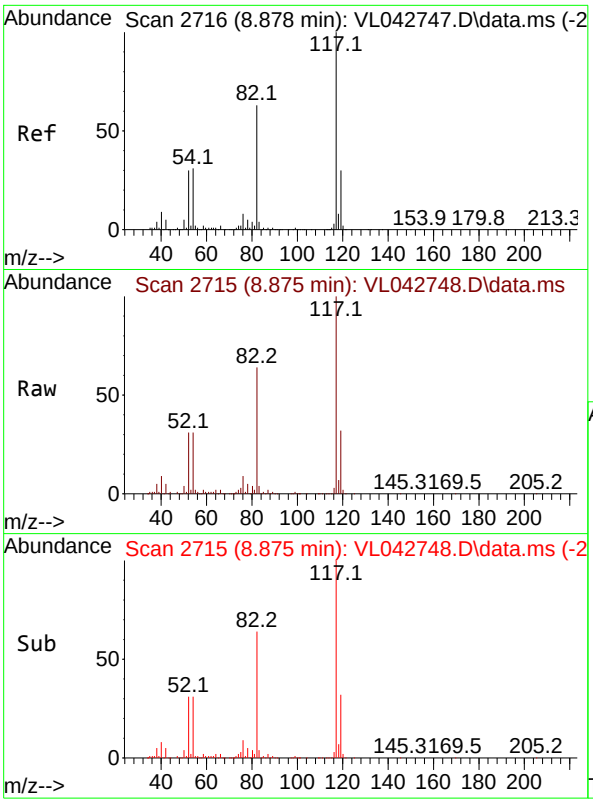


#54
1,2-Dibromoethane
Concen: 2.042 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:107 Resp: 49346

Ion	Ratio	Lower	Upper
107	100		
109	82.2	72.7	109.1

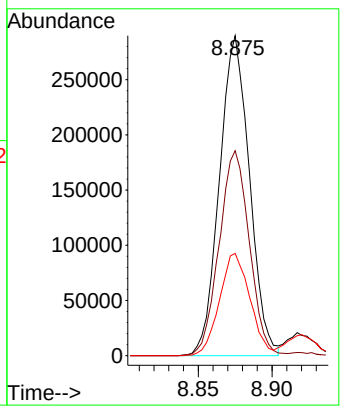




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:117 Resp: 41074

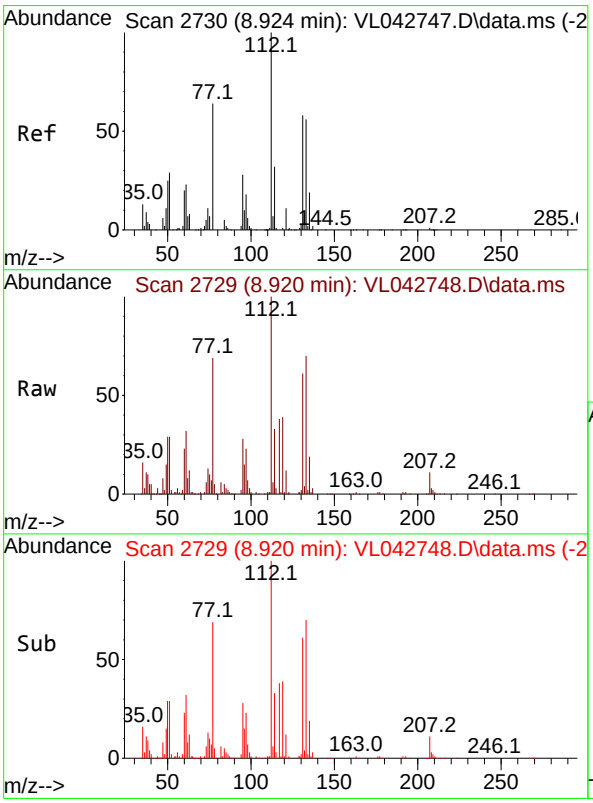
Ion	Ratio	Lower	Upper
117	100		
82	65.2	53.3	79.9
119	33.2	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

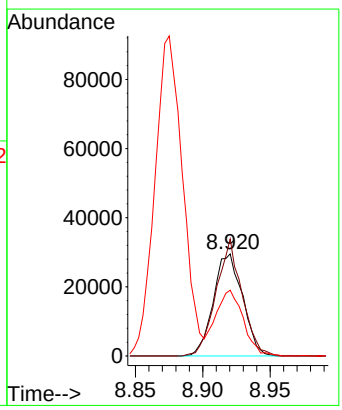
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

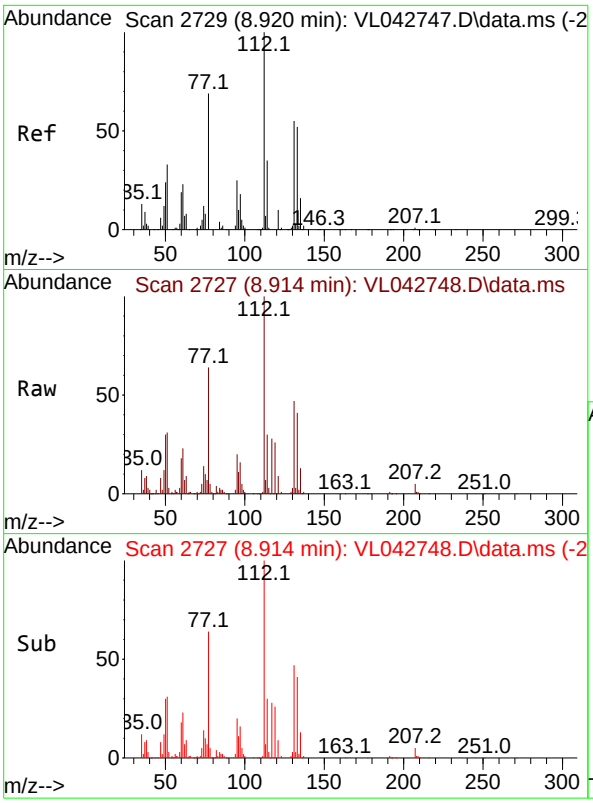


#56
1,1,1,2-Tetrachloroethane
Concen: 2.079 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:131 Resp: 44409

Ion	Ratio	Lower	Upper
131	100		
133	102.1	76.8	115.2
119	54.2	49.7	74.5





#57
Chlorobenzene
Concen: 2.101 ppbv
RT: 8.914 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

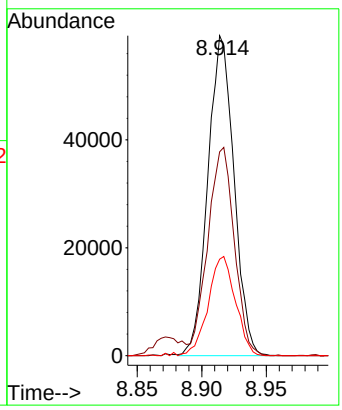
Tgt Ion:112 Resp: 8350

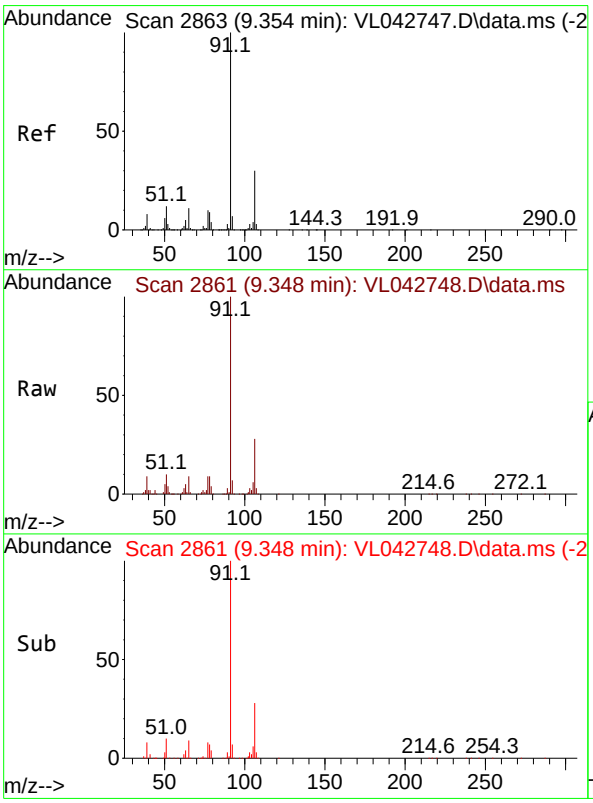
Ion	Ratio	Lower	Upper
112	100		
77	63.5	56.4	84.6
114	30.2	31.2	38.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

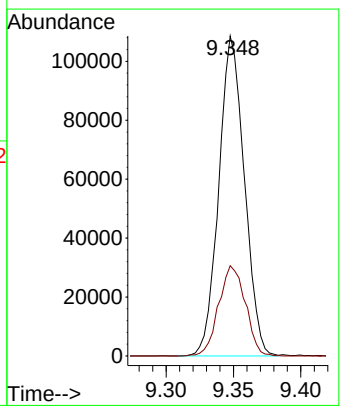


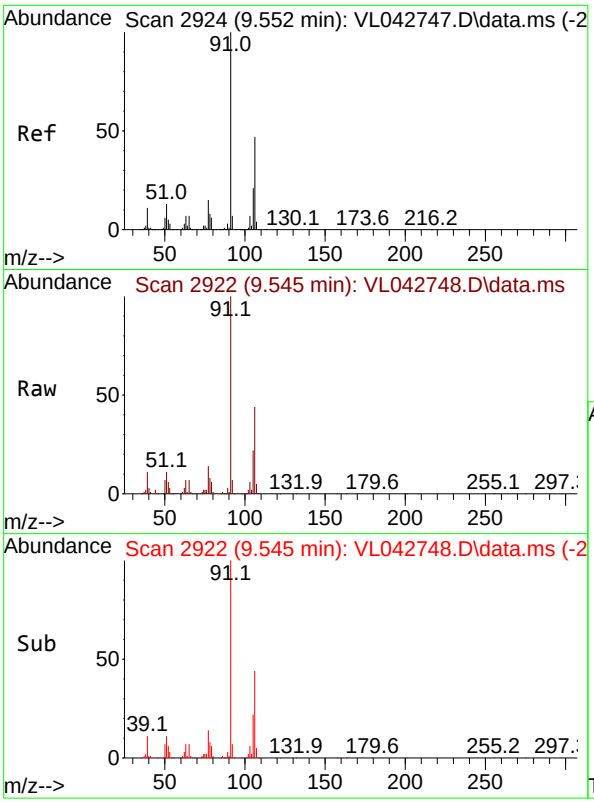


#58
Ethyl Benzene
Concen: 2.208 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 143251

Ion	Ratio	Lower	Upper
91	100		
106	28.2	23.8	35.6





#59
m/p-Xylene
Concen: 4.290 ppbv m
RT: 9.545 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

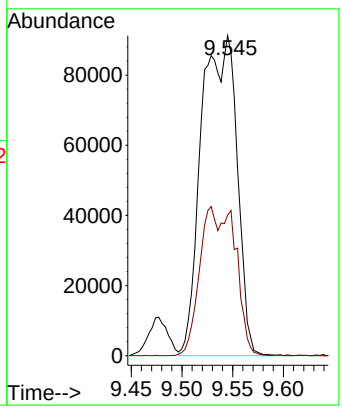
Tgt Ion: 91 Resp: 22246

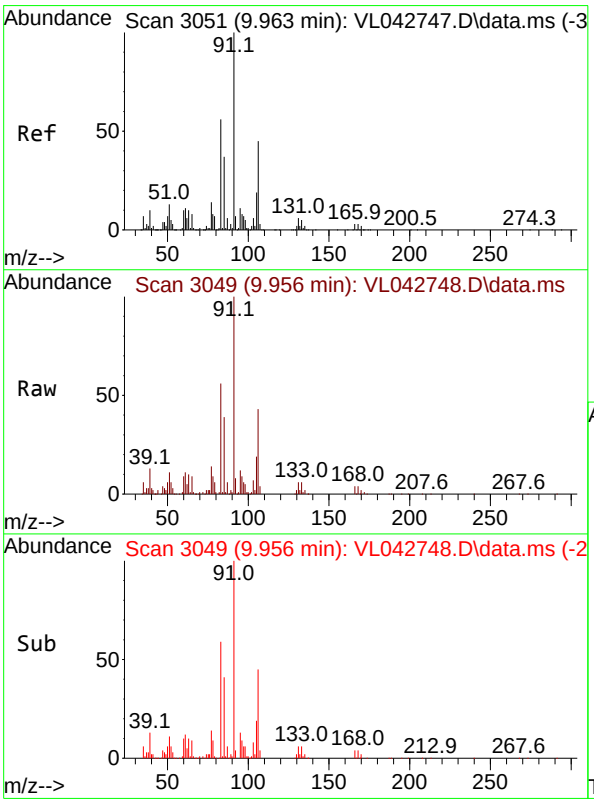
Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

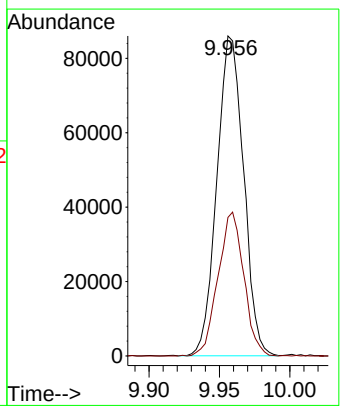


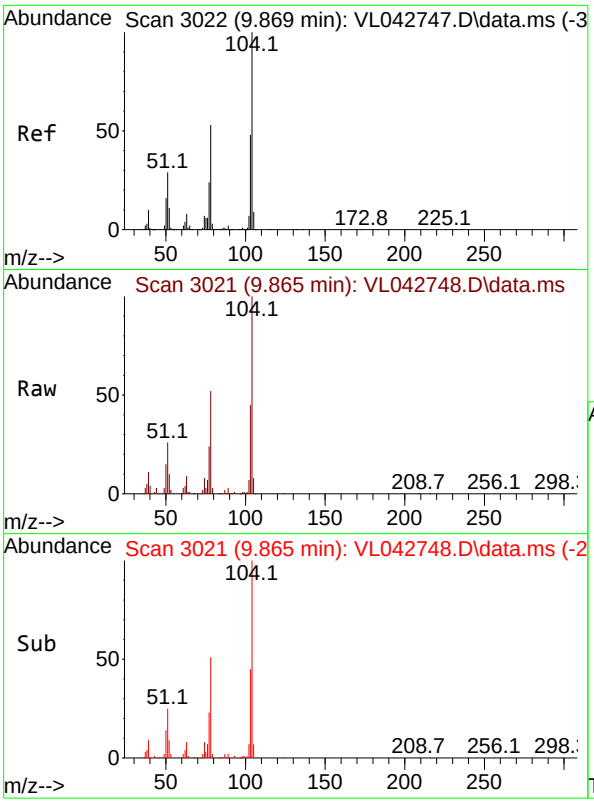


#60
o-Xylene
Concen: 2.190 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 113462

Ion	Ratio	Lower	Upper
91	100		
106	43.4	22.0	66.0

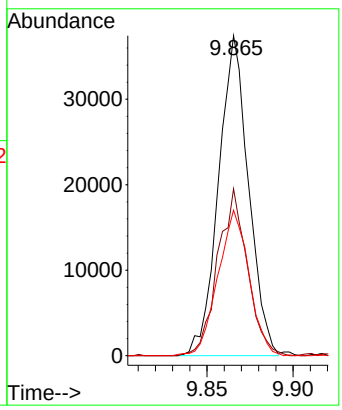




#61
Styrene
Concen: 2.081 ppbv
RT: 9.865 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:104 Resp: 4535

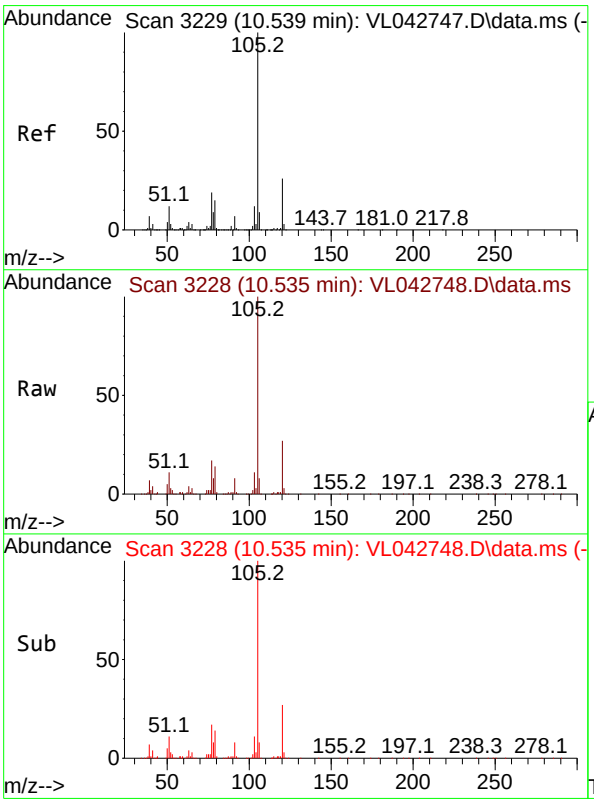
Ion	Ratio	Lower	Upper
104	100		
78	51.7	41.5	62.3
103	47.1	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

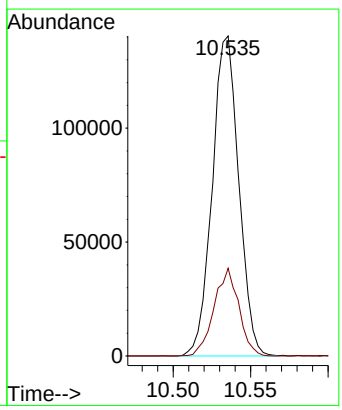
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

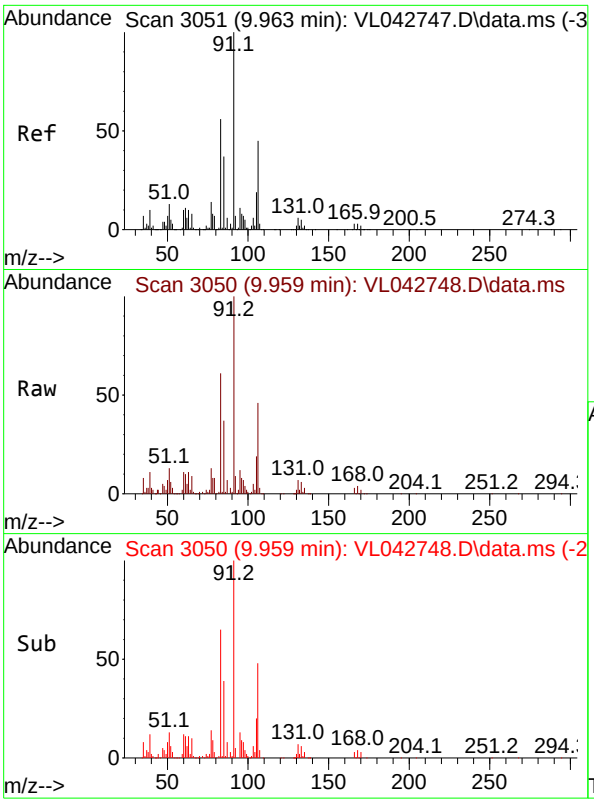


#62
Isopropylbenzene
Concen: 2.187 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 167108

Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.5	30.7

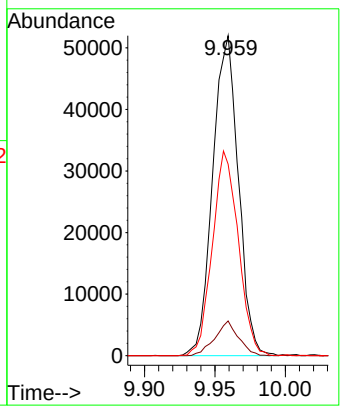




#63
1,1,2,2-Tetrachloroethane
Concen: 1.954 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 83 Resp: 6592

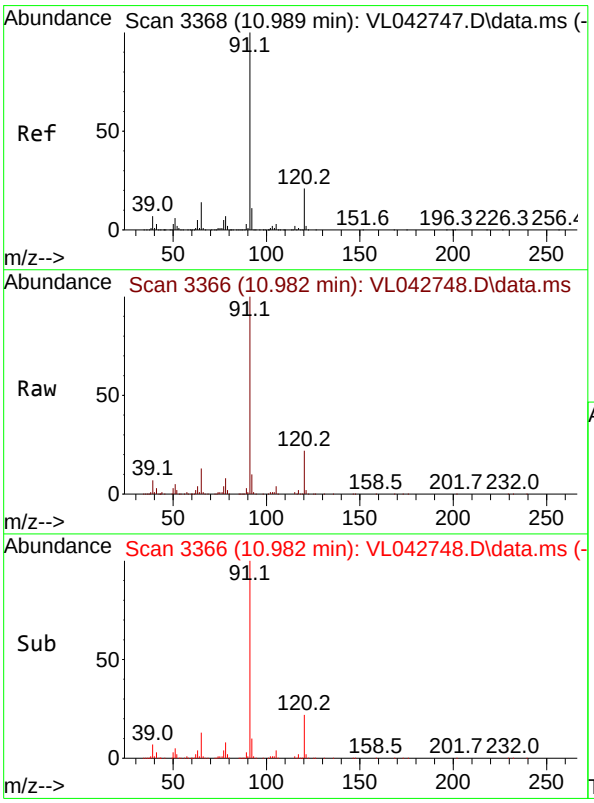
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	15.0
85	64.7	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

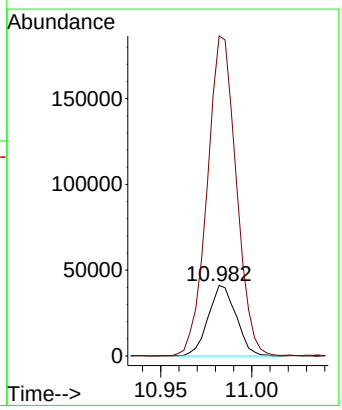
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

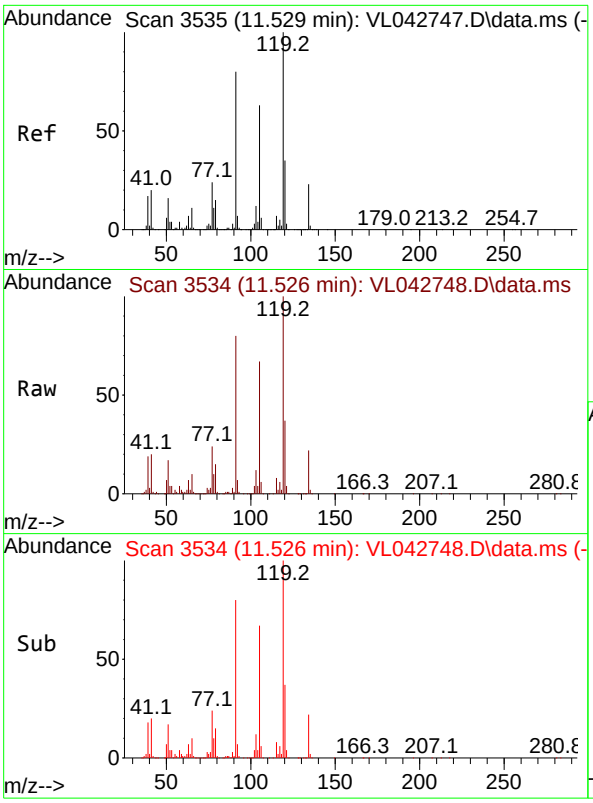


#64
n-propylbenzene
Concen: 2.198 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:120 Resp: 43789

Ion	Ratio	Lower	Upper
120	100		
91	472.1	372.7	559.1

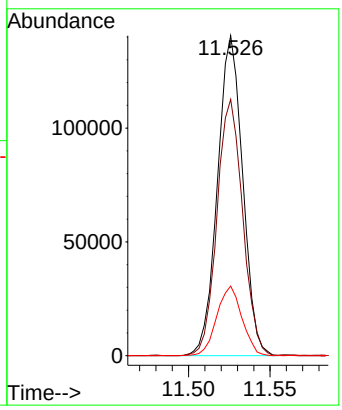




#65
tert-Butylbenzene
Concen: 2.226 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:119 Resp: 15108

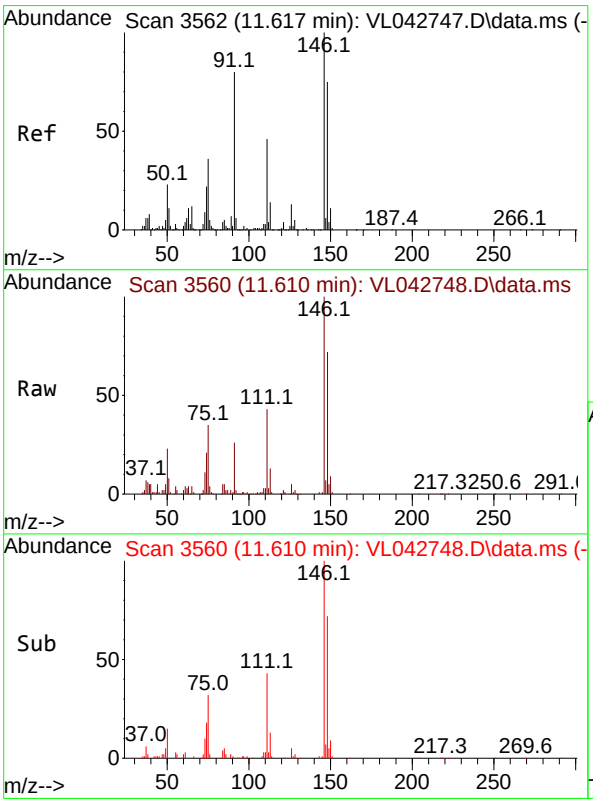
Ion	Ratio	Lower	Upper
119	100		
91	81.8	64.0	96.0
134	21.7	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

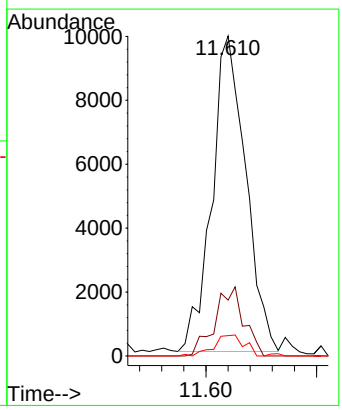
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

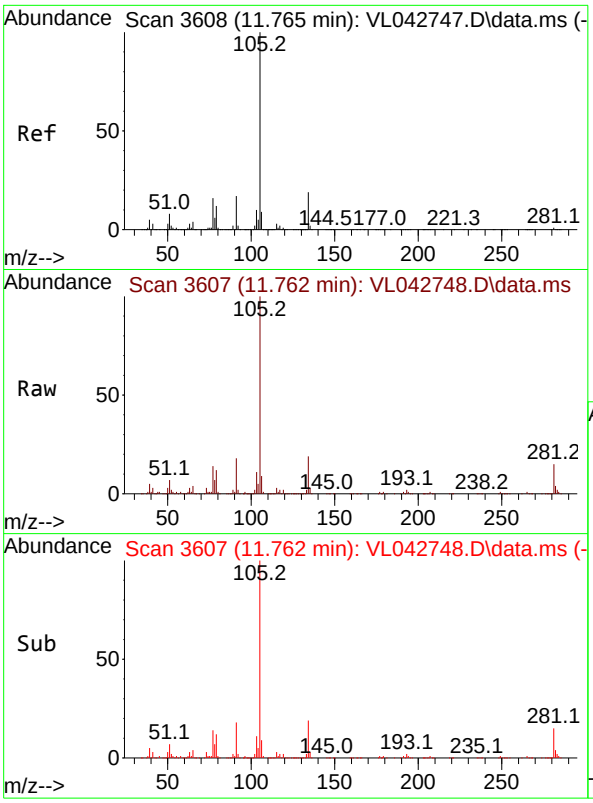


#66
Benzyl Chloride
Concen: 1.882 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 10485

Ion	Ratio	Lower	Upper
91	100		
126	18.8	14.4	21.6
128	6.2	5.2	7.8

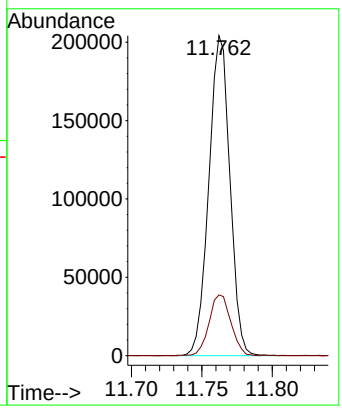




#67
sec-Butylbenzene
Concen: 2.206 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 21292

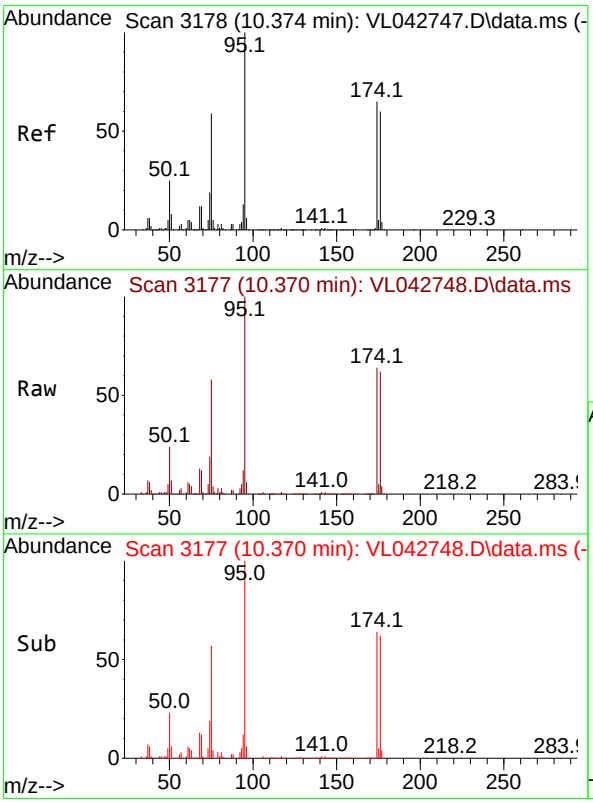
Ion	Ratio	Lower	Upper
105	100		
134	19.8	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

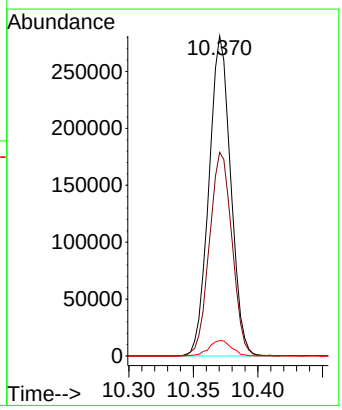
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

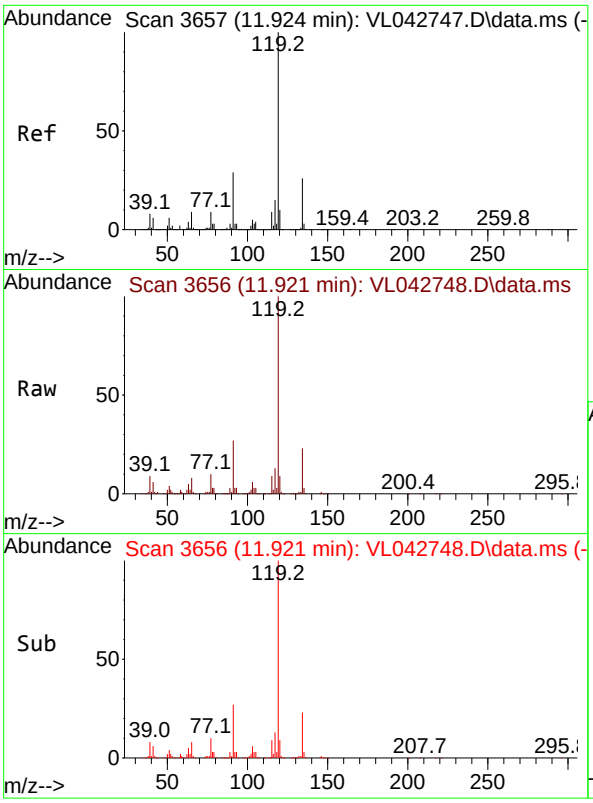


#68
1-Bromo-4-Fluorobenzene
Concen: 10.160 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 95 Resp: 330476

Ion	Ratio	Lower	Upper
95	100		
174	66.2	53.8	80.6
175	5.0	4.0	6.0





#69
p-Isopropyltoluene
Concen: 2.230 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

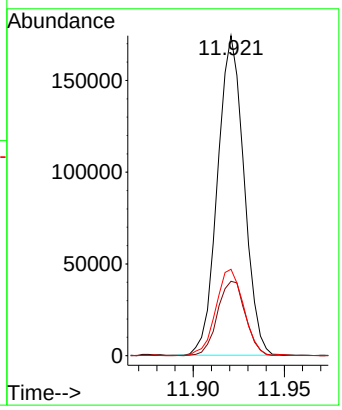
Tgt Ion:119 Resp: 17555

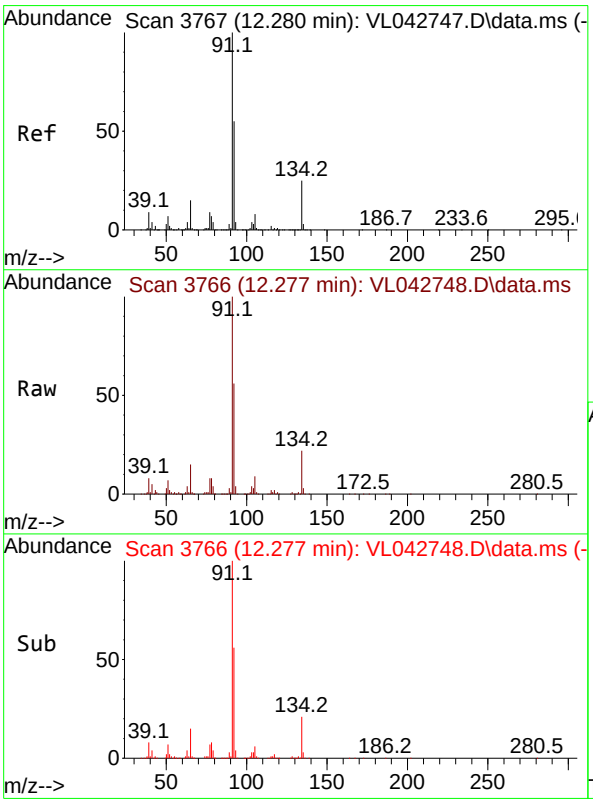
Ion	Ratio	Lower	Upper
119	100		
134	24.7	20.6	31.0
91	29.0	23.2	34.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

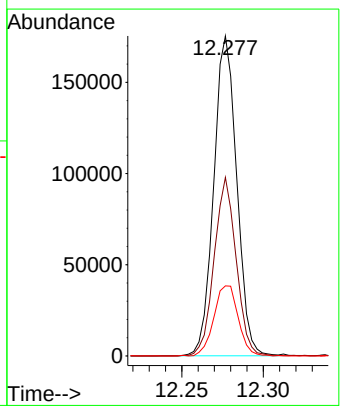


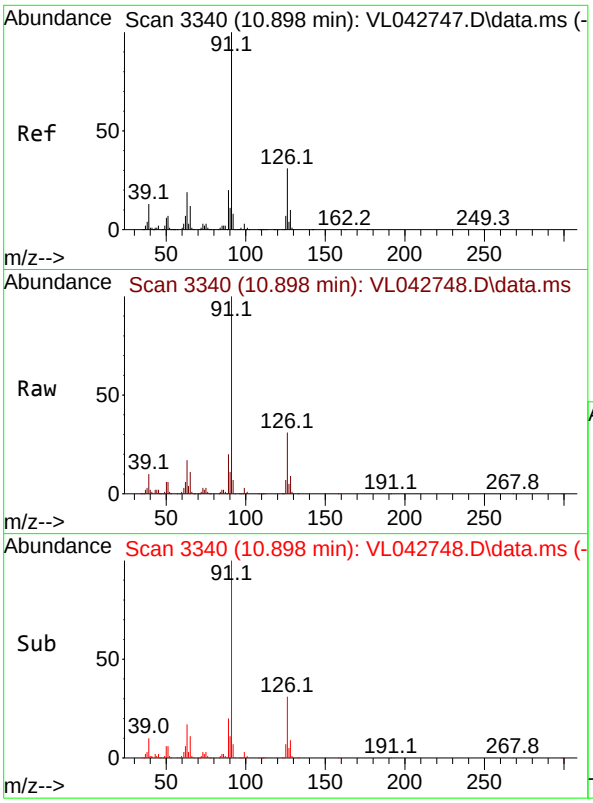


#70
n-Butylbenzene
Concen: 2.258 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 171675

Ion	Ratio	Lower	Upper
91	100		
92	53.7	43.4	65.2
134	23.4	19.6	29.4

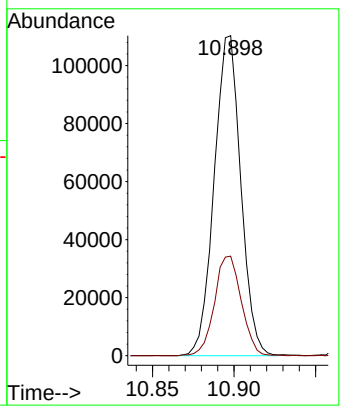




#71
2-Chlorotoluene
Concen: 2.134 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 12503

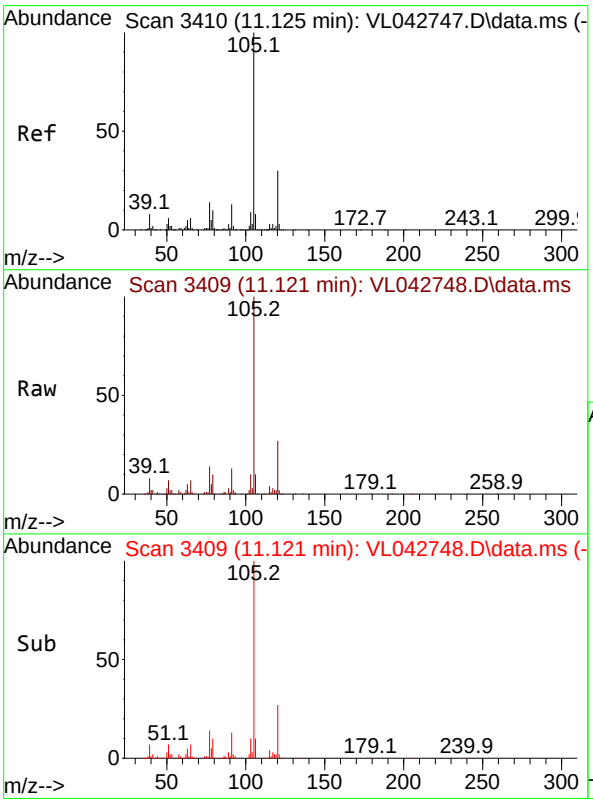
Ion	Ratio	Lower	Upper
91	100		
126	31.4	12.0	48.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

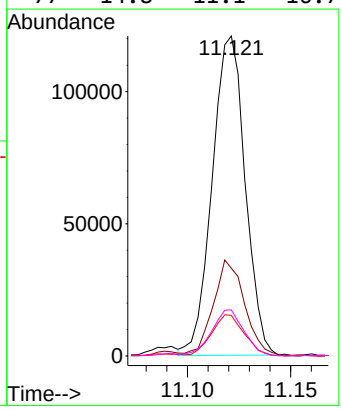
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

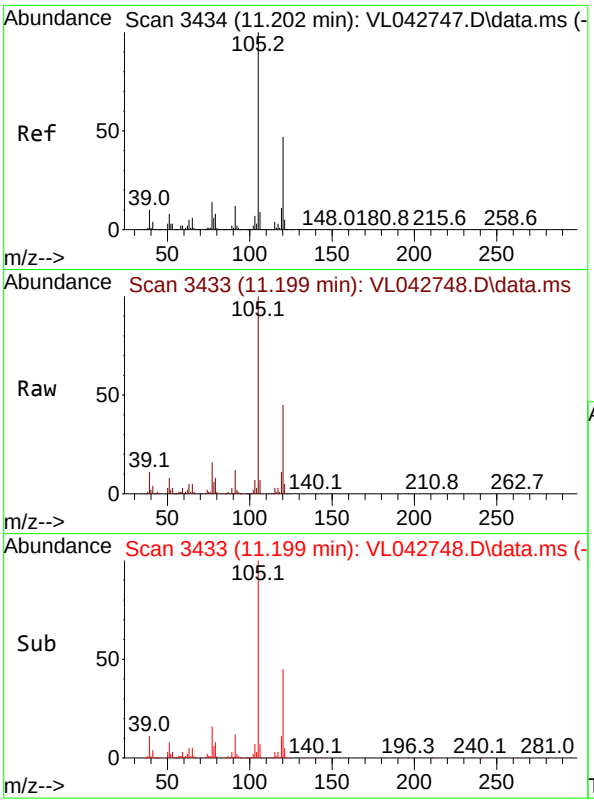


#72
4-Ethyltoluene
Concen: 2.168 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 134097

Ion	Ratio	Lower	Upper
105	100		
120	29.7	24.4	36.6
91	13.7	10.6	15.8
77	14.8	11.1	16.7

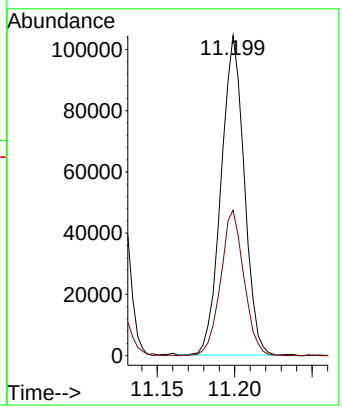




#73
1,3,5-Trimethylbenzene
Concen: 2.122 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 10805

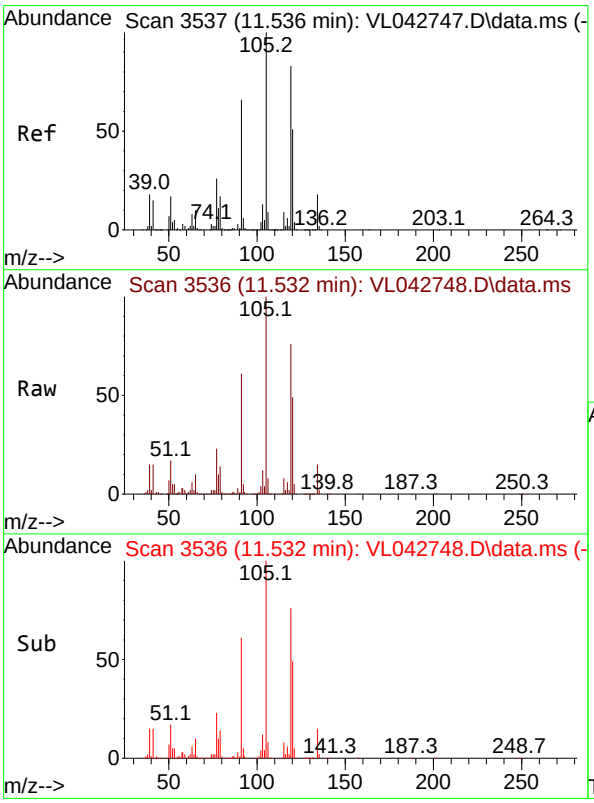
Ion	Ratio	Lower	Upper
105	100		
120	45.6	37.8	56.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

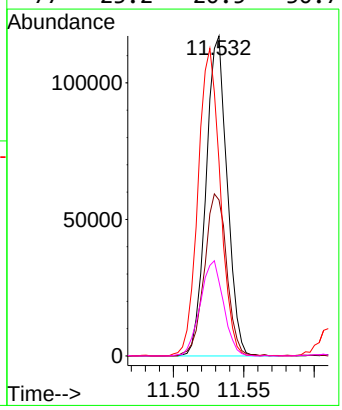
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

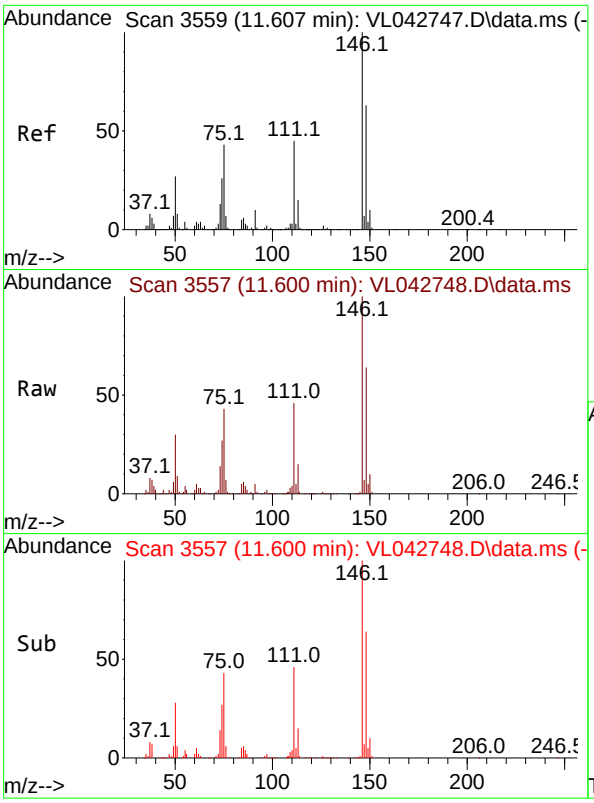


#74
1,2,4-Trimethylbenzene
Concen: 2.201 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 122295

Ion	Ratio	Lower	Upper
105	100		
120	48.6	40.8	61.2
91	60.6	53.0	79.4
77	23.2	20.5	30.7

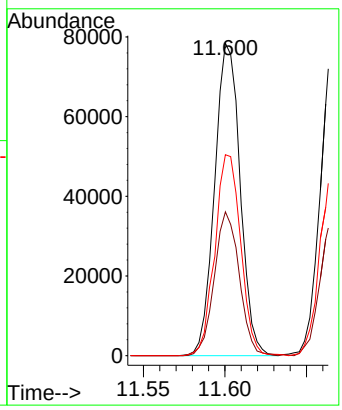




#75
1,3-Dichlorobenzene
Concen: 2.188 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:146 Resp: 8525

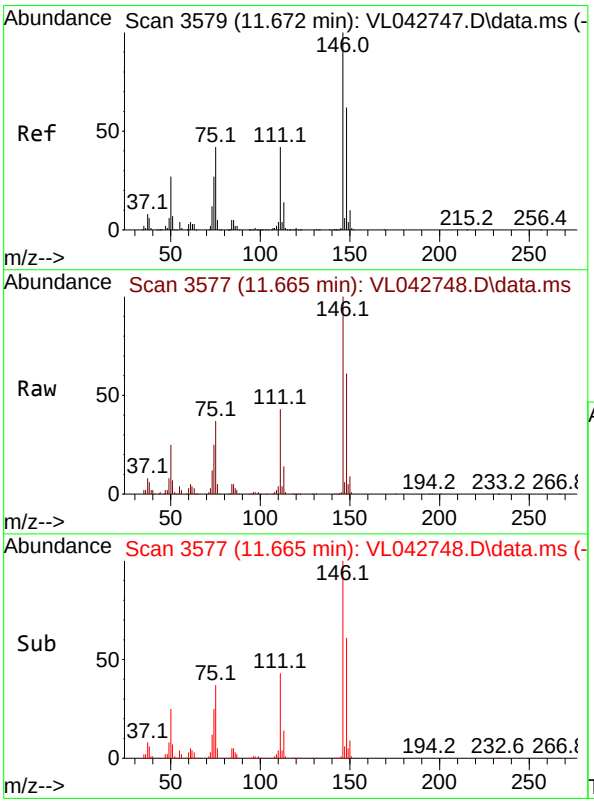
Ion	Ratio	Lower	Upper
146	100		
111	45.0	22.7	68.0
148	65.2	31.9	95.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

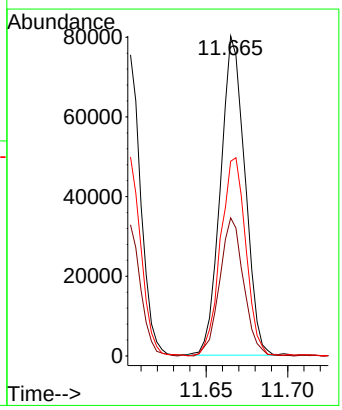
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

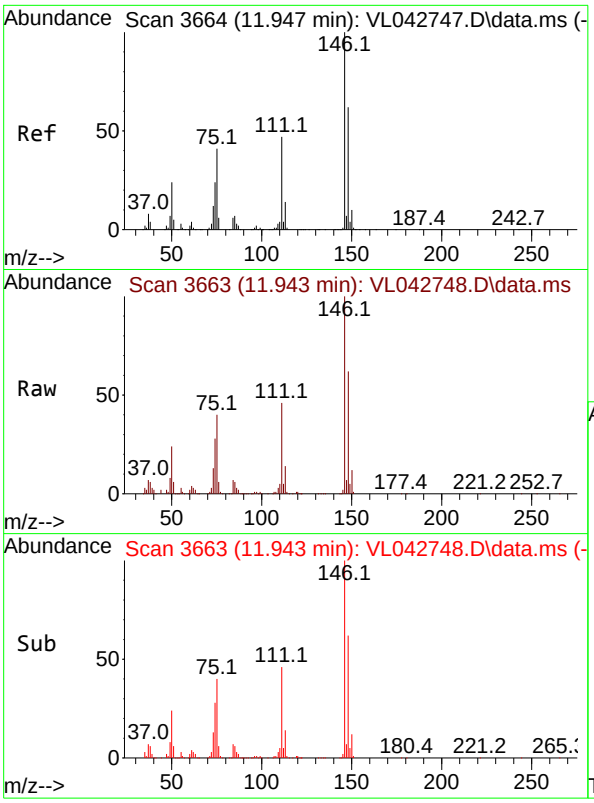


#76
1,4-Dichlorobenzene
Concen: 2.189 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:146 Resp: 83440

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.4	64.2
148	64.9	32.1	96.3

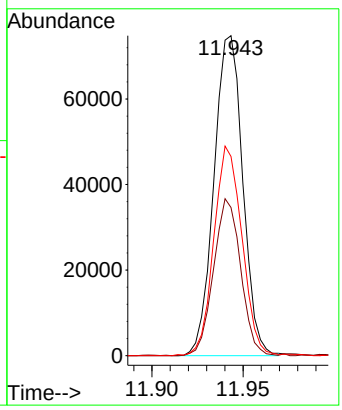




#77
1,2-Dichlorobenzene
Concen: 2.150 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:146 Resp: 8231

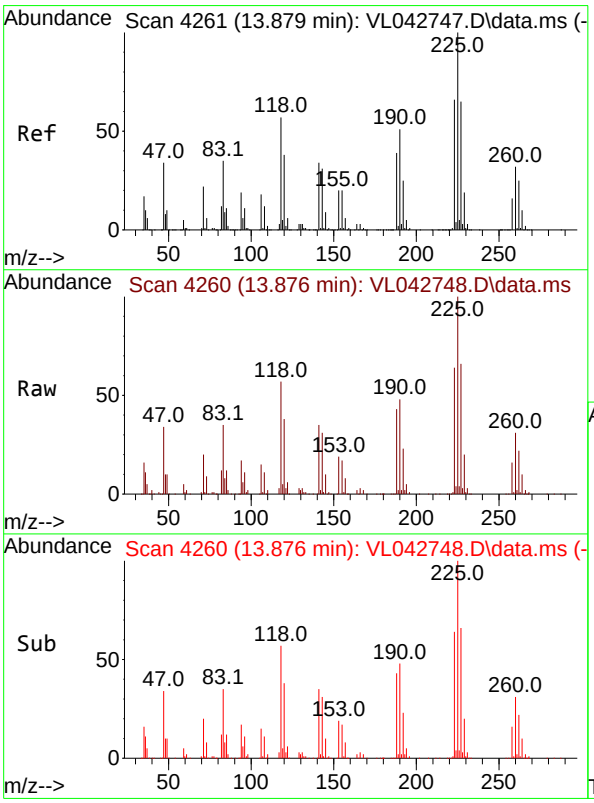
Ion	Ratio	Lower	Upper
146	100		
111	46.6	23.7	71.1
148	64.3	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

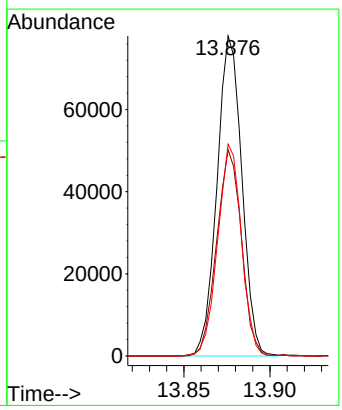
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

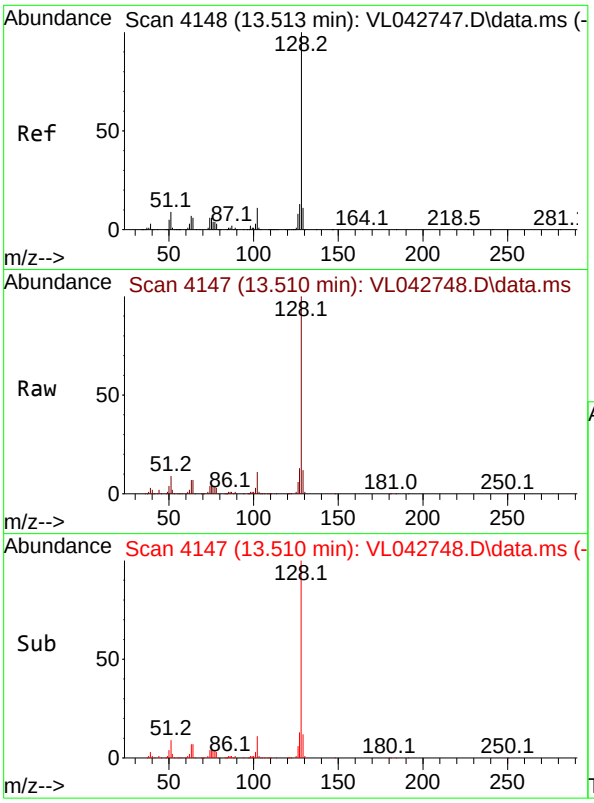


#78
Hexachloro-1,3-Butadiene
Concen: 2.259 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:225 Resp: 78291

Ion	Ratio	Lower	Upper
225	100		
223	64.2	50.7	76.1
227	63.3	50.5	75.7

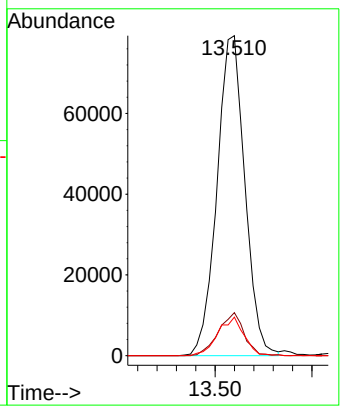




#79
Naphthalene
Concen: 1.690 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:128 Resp: 7919

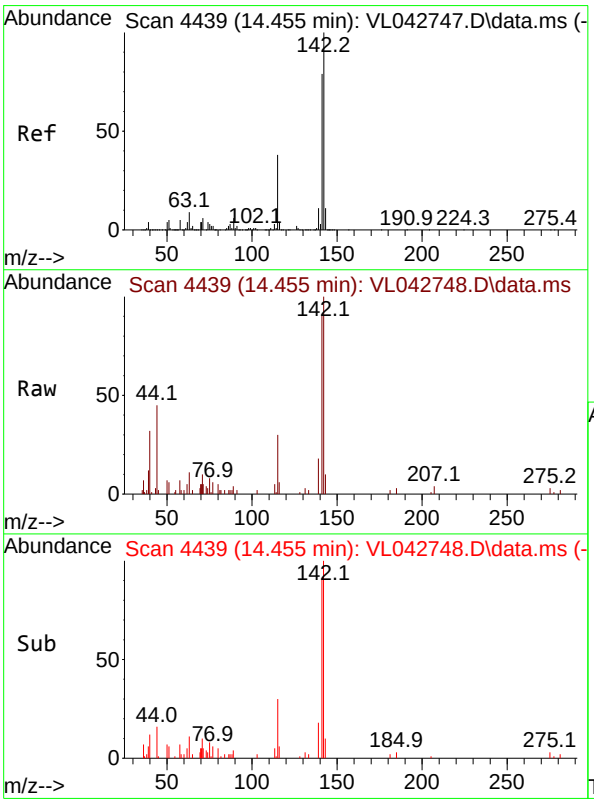
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.5	15.7
129	12.1	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

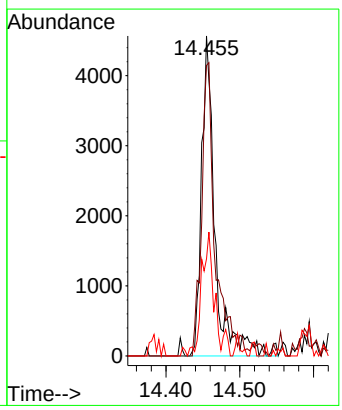
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

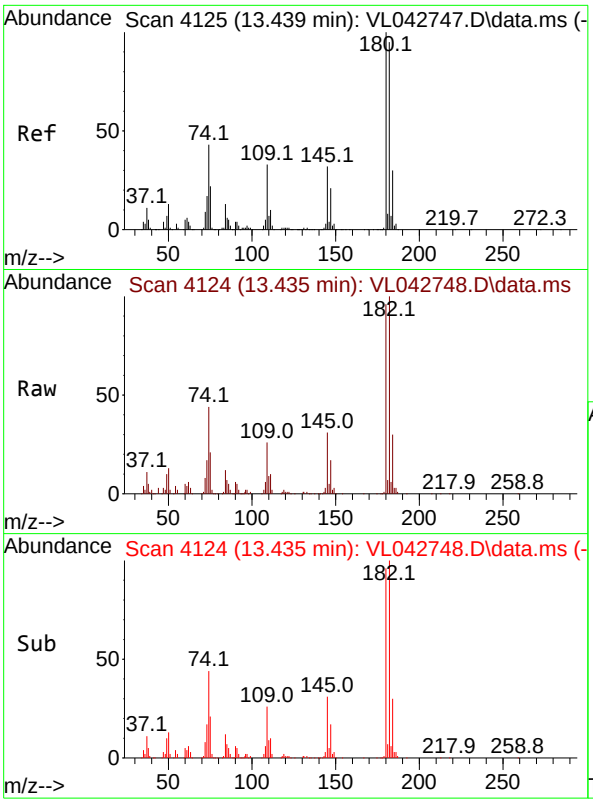


#80
Naphthalene,2-methyl-
Concen: 1.298 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:142 Resp: 5851

Ion	Ratio	Lower	Upper
142	100		
141	94.9	65.8	98.8
115	40.3	31.2	46.8

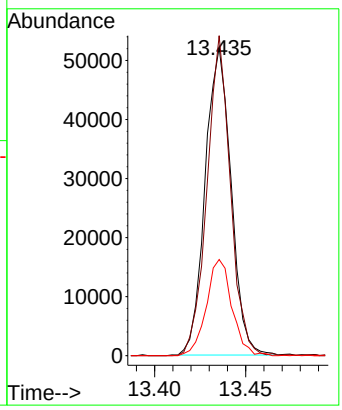




#81
1,2,4-Trichlorobenzene
Concen: 1.888 ppbv
RT: 13.435 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:180 Resp: 5151

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.2	114.2
184	30.9	24.8	37.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042749.D
Acq On : 23 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 04:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	156293	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	459770	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	410018	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	327673	10.091	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	20935	1.013	ppbv		93
3) Chlorodifluoromethane	1.473	51	27459	1.020	ppbv		99
4) Chloromethane	1.531	50	9047	1.082	ppbv		96
5) Vinyl Chloride	1.580	62	7432	0.900	ppbv		96
6) Bromomethane	1.667	94	3743	1.172	ppbv	#	71
7) Chloroethane	1.703	64	3061	0.959	ppbv		99
8) Dichlorotetrafluoroethane	1.551	85	17668	1.040	ppbv		98
9) Propene	1.483	41	10346	1.057	ppbv		95
10) Heptane	4.975	43	26137m	0.993	ppbv		
11) Trichlorofluoromethane	1.874	101	22428	1.053	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.136	101	16608	1.026	ppbv		97
13) Ethanol	1.719	45	1620m	1.222	ppbv		
14) Bromoethene	1.780	108	5928	1.034	ppbv	#	92
15) Acetone	1.832	43	23119	1.071	ppbv		94
16) 1,3-Butadiene	1.606	39	9416	1.023	ppbv		98
17) tert-Butyl alcohol	2.039	59	19926	1.024	ppbv	#	93
18) 1,1-Dichloroethene	2.030	96	8276	1.132	ppbv		95
19) Isopropyl Alcohol	1.884	45	11942	1.041	ppbv	#	42
20) Methylene Chloride	2.059	84	7153	1.052	ppbv		90
21) Allyl Chloride	2.091	41	13382	1.006	ppbv		92
22) trans-1,2-Dichloroethene	2.337	96	7909	1.007	ppbv		89
23) Vinyl Acetate	2.457	43	23472	0.897	ppbv	#	91
24) 1,1-Dichloroethane	2.405	63	17459	1.081	ppbv		99
25) Ethyl Acetate	2.829	43	48790	1.021	ppbv		97
26) Hexane	2.823	57	22279	1.063	ppbv		98
27) Carbon Disulfide	2.146	76	18488	1.031	ppbv	#	1
28) Methyl tert-Butyl Ether	2.434	73	9587	0.968	ppbv		90
29) Chloroform	2.845	83	32880	1.015	ppbv		95
30) Cyclohexane	3.852	84	17824	1.003	ppbv		97
31) cis-1,2-Dichloroethene	2.716	61	21979	1.021	ppbv		97
32) 1,1,1-Trichloroethane	3.363	97	32003	0.949	ppbv		97
34) 2-Butanone	2.554	43	32783	1.007	ppbv		98
35) Carbon Tetrachloride	3.758	117	32610	0.954	ppbv		92
36) Benzene	3.651	78	44638	1.024	ppbv		98
37) 1,2-Dichloroethane	3.211	62	26909	1.025	ppbv	#	96
38) Trichloroethene	4.538	130	21122	1.005	ppbv		93
39) 1,2-Dichloropropane	4.305	63	16622	1.033	ppbv		94
40) 1,4-Dioxane	4.587	88	7811m	1.030	ppbv		
41) Tetrahydrofuran	3.056	42	16097	0.984	ppbv		97
42) Bromodichloromethane	4.480	83	34995m	1.023	ppbv		
43) Methyl Methacrylate	4.868	69	14886m	0.961	ppbv		
44) 2,2,4-Trimethylpentane	4.629	57	72865	1.026	ppbv		99
45) t-1,3-Dichloropropene	6.399	75	15641m	0.900	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042749.D
Acq On : 23 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 04:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	21088m	0.958	ppbv		
47) 1,1,2-Trichloroethane	6.574	97	17646	1.029	ppbv	#	82
48) Dibromochloromethane	7.380	129	26259	0.965	ppbv		99
49) Bromoform	9.474	173	23083	0.973	ppbv		100
50) 4-Methyl-2-Pentanone	5.745	43	41715m	1.006	ppbv		
51) 2-Hexanone	7.435	43	29761	0.939	ppbv	#	100
52) Tetrachloroethene	8.215	164	18131	1.001	ppbv		96
53) Toluene	6.927	91	45645	0.976	ppbv		98
54) 1,2-Dibromoethane	7.642	107	24427	1.007	ppbv		85
56) 1,1,1,2-Tetrachloroethane	8.920	131	21319	1.000	ppbv		94
57) Chlorobenzene	8.911	112	41788	1.053	ppbv	#	85
58) Ethyl Benzene	9.351	91	63467	0.980	ppbv		98
59) m/p-Xylene	9.545	91	104545m	2.020	ppbv		
60) o-Xylene	9.959	91	52499	1.015	ppbv		99
61) Styrene	9.865	104	20313	0.934	ppbv		97
62) Isopropylbenzene	10.532	105	77278	1.013	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.956	83	32591	0.967	ppbv		100
64) n-propylbenzene	10.985	120	20073	1.009	ppbv		95
65) tert-Butylbenzene	11.526	119	68428	1.010	ppbv		95
66) Benzyl Chloride	11.610	91	4700	0.845	ppbv		96
67) sec-Butylbenzene	11.762	105	101458	1.053	ppbv		99
69) p-Isopropyltoluene	11.921	119	78186	0.995	ppbv		98
70) n-Butylbenzene	12.277	91	74257	0.978	ppbv		98
71) 2-Chlorotoluene	10.895	91	59193	1.012	ppbv		100
72) 4-Ethyltoluene	11.121	105	61199	0.991	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	48901	0.962	ppbv		99
74) 1,2,4-Trimethylbenzene	11.532	105	55153	0.994	ppbv		97
75) 1,3-Dichlorobenzene	11.600	146	39753	1.022	ppbv		97
76) 1,4-Dichlorobenzene	11.665	146	38018	0.999	ppbv		98
77) 1,2-Dichlorobenzene	11.943	146	40835	1.068	ppbv		98
78) Hexachloro-1,3-Butadiene	13.876	225	37228	1.076	ppbv		98
79) Naphthalene	13.510	128	29792	0.907	ppbv		97
80) Naphthalene,2-methyl-	14.449	142	1950	1.184	ppbv	#	78
81) 1,2,4-Trichlorobenzene	13.435	180	21929	1.053	ppbv		98

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

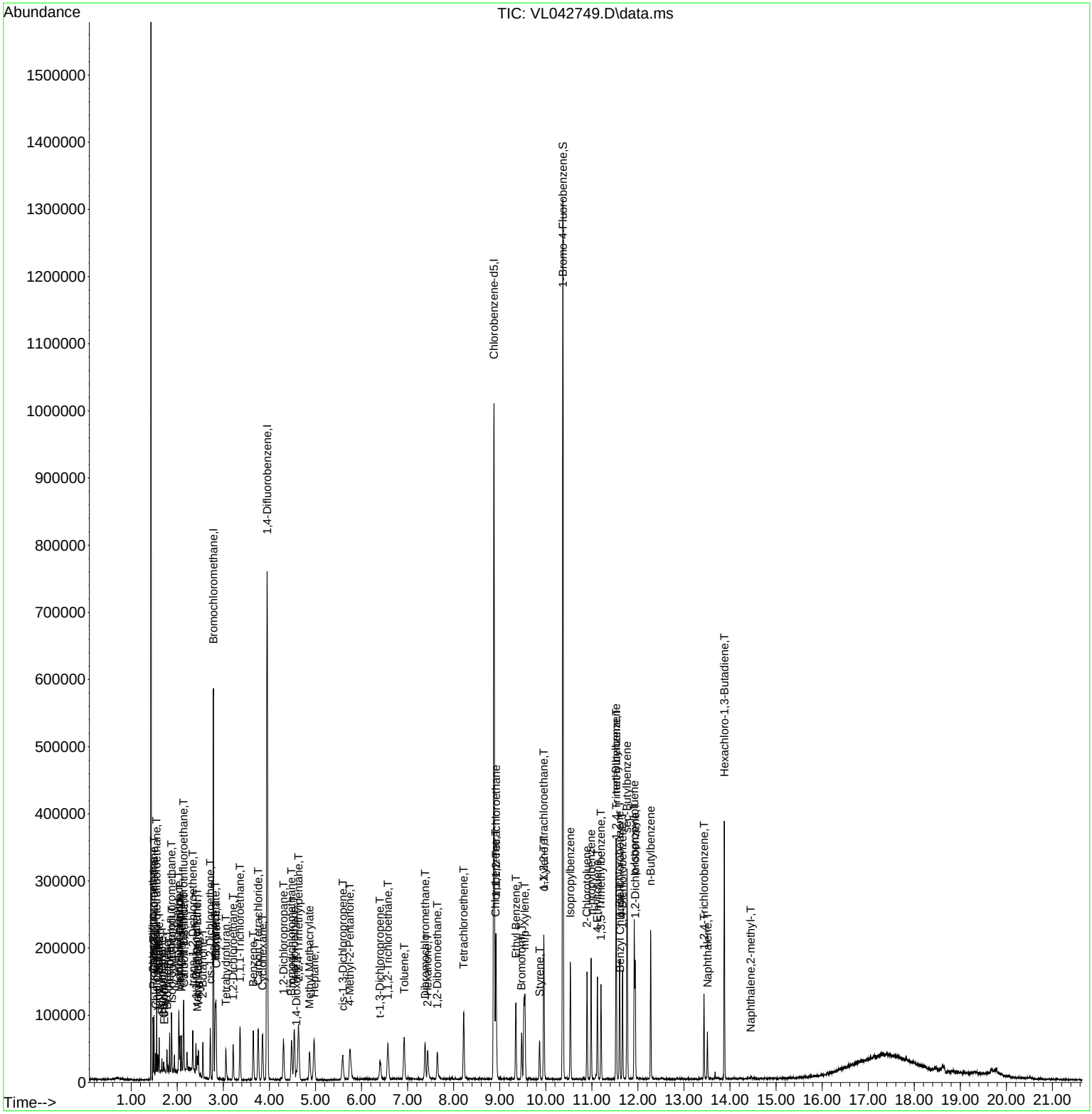
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042749.D
Acq On : 23 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

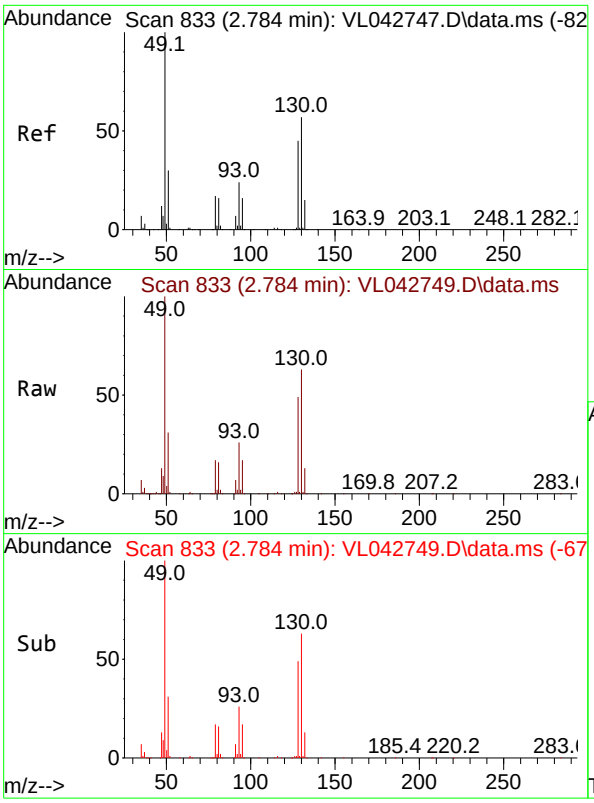
Quant Time: Jul 24 04:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

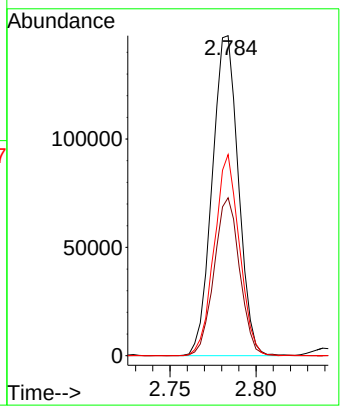




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 49 Resp: 15629

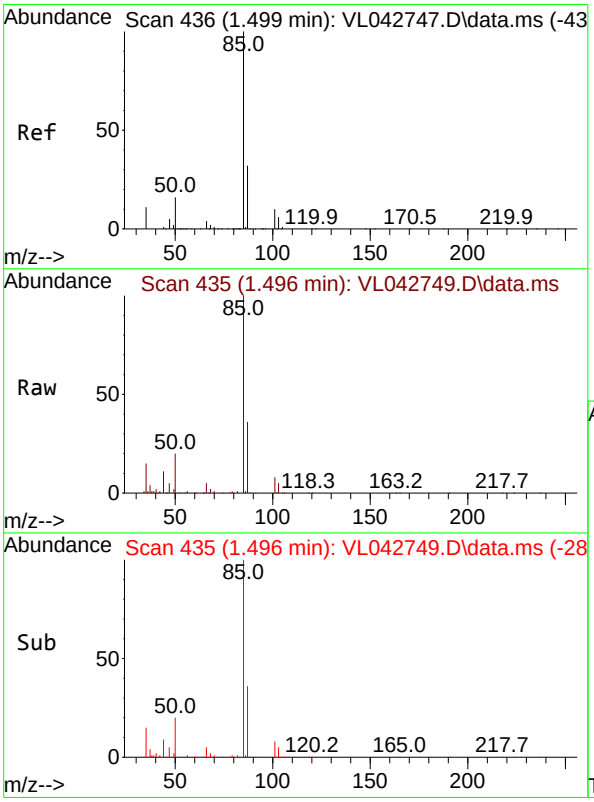
Ion	Ratio	Lower	Upper
49	100		
128	48.2	23.6	71.0
130	60.4	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

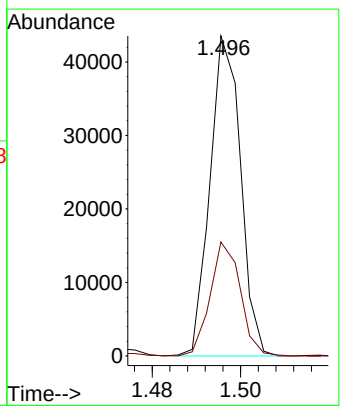
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

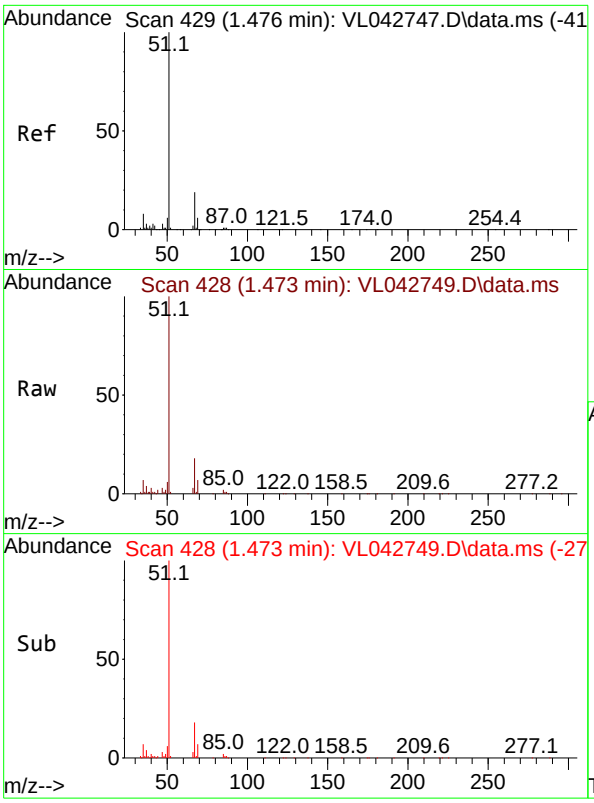


#2
Dichlorodifluoromethane
Concen: 1.013 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 85 Resp: 20935

Ion	Ratio	Lower	Upper
85	100		
87	35.6	25.4	38.2

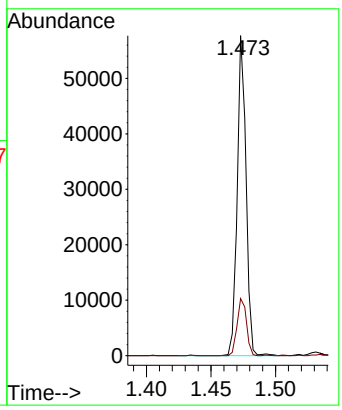




#3
Chlorodifluoromethane
Concen: 1.020 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 51 Resp: 2745

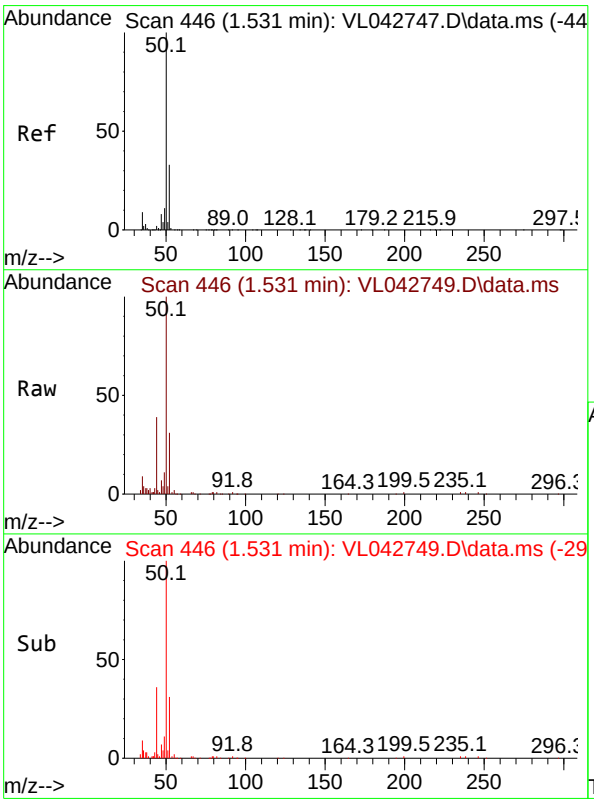
Ion	Ratio	Lower	Upper
51	100		
67	19.3	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

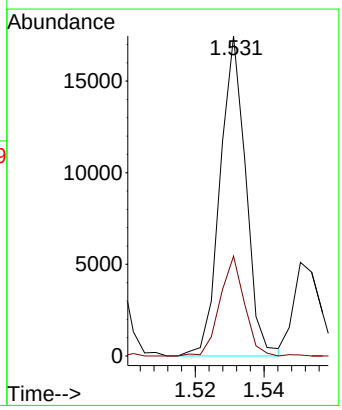
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

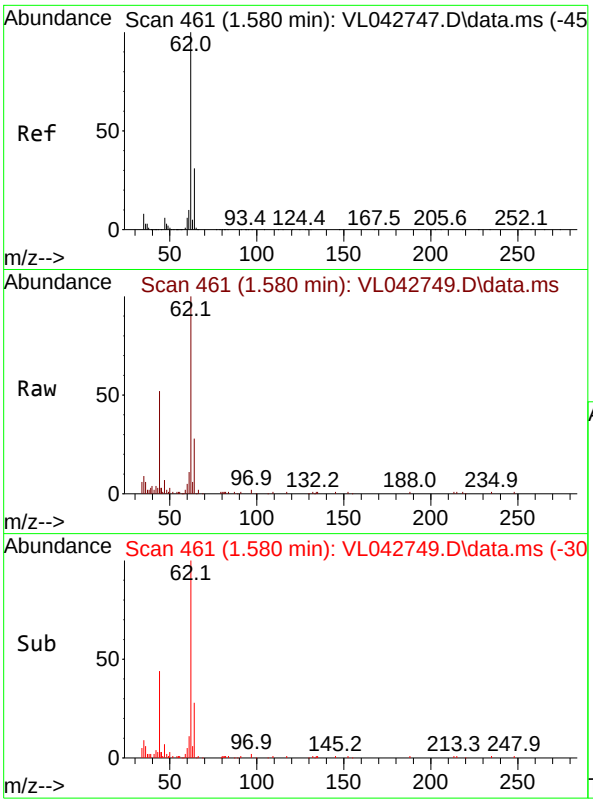


#4
Chloromethane
Concen: 1.082 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 50 Resp: 9047

Ion	Ratio	Lower	Upper
50	100		
52	31.2	26.6	40.0

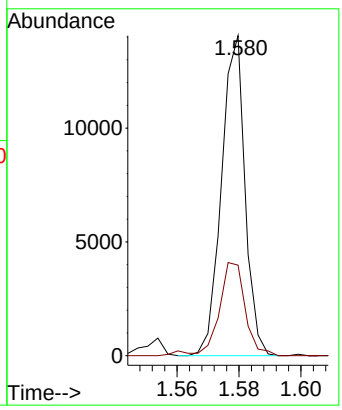




#5
Vinyl Chloride
Concen: 0.900 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 62 Resp: 743

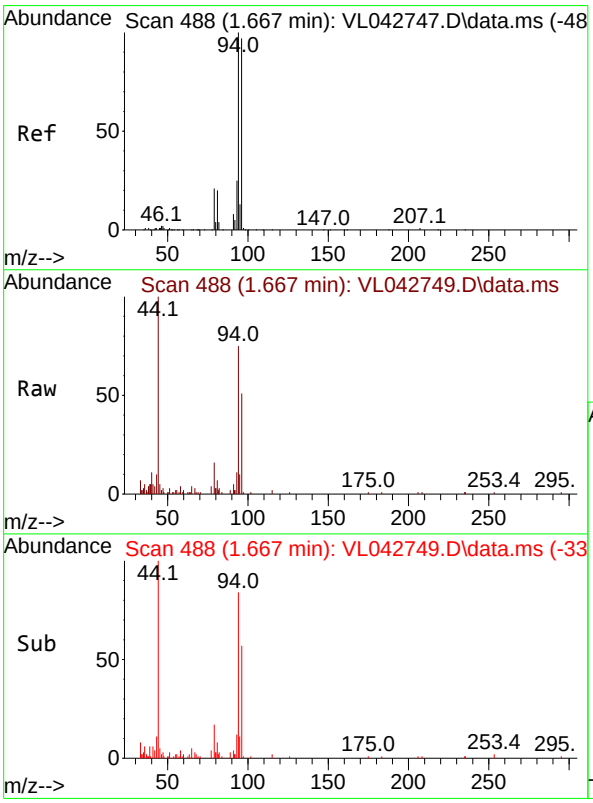
Ion	Ratio	Lower	Upper
62	100		
64	28.3	24.5	36.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

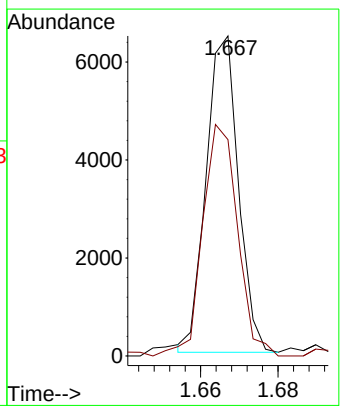
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

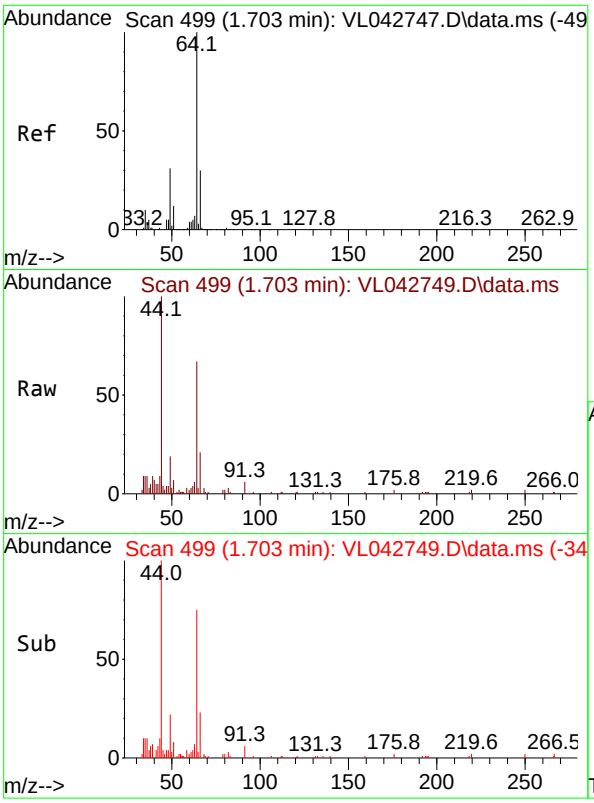


#6
Bromomethane
Concen: 1.172 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 94 Resp: 3743

Ion	Ratio	Lower	Upper
94	100		
96	68.4	77.6	116.4#

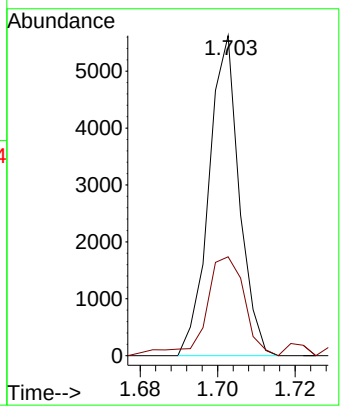




#7
Chloroethane
Concen: 0.959 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 64 Resp: 306

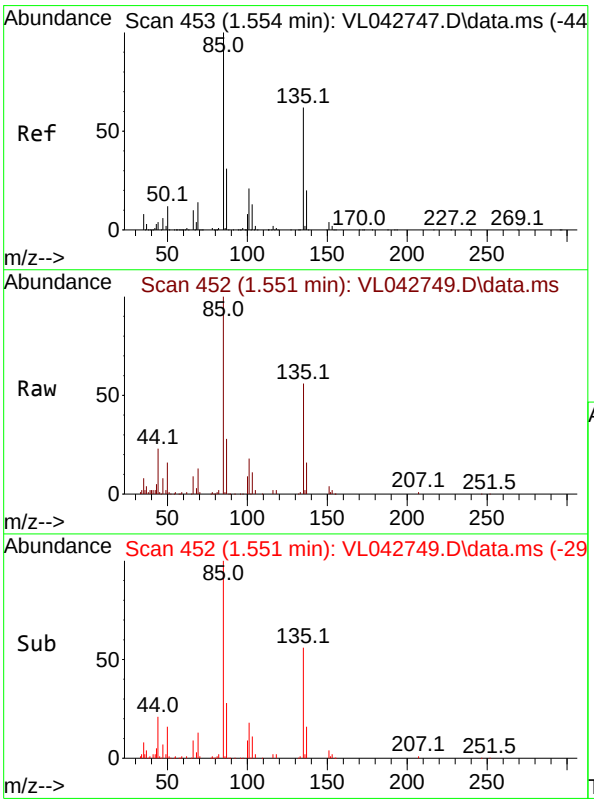
Ion	Ratio	Lower	Upper
64	100		
66	30.9	24.1	36.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

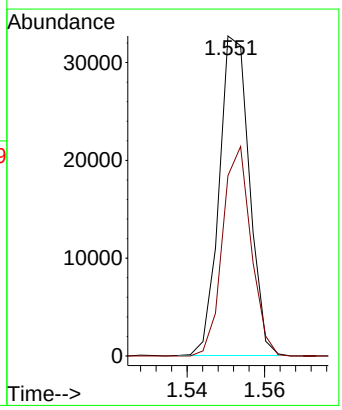
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

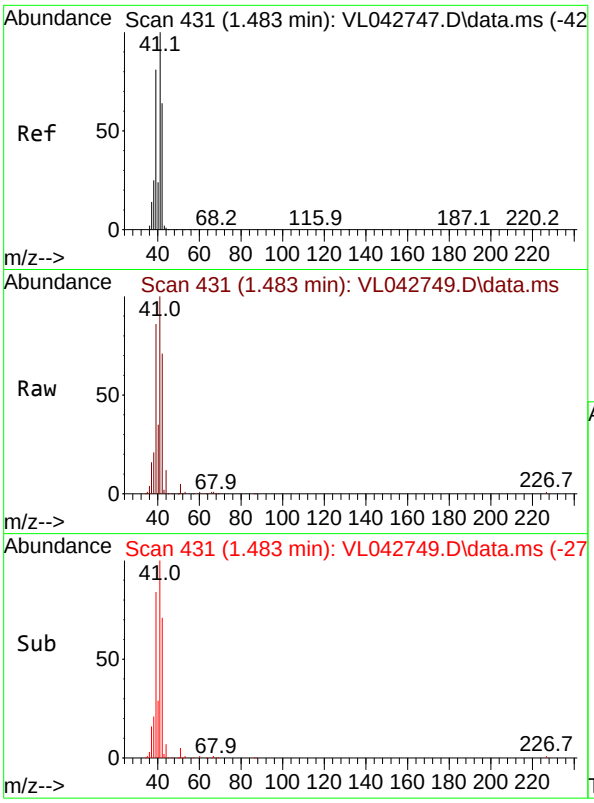


#8
Dichlorotetrafluoroethane
Concen: 1.040 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 85 Resp: 17668

Ion	Ratio	Lower	Upper
85	100		
135	62.1	50.6	76.0

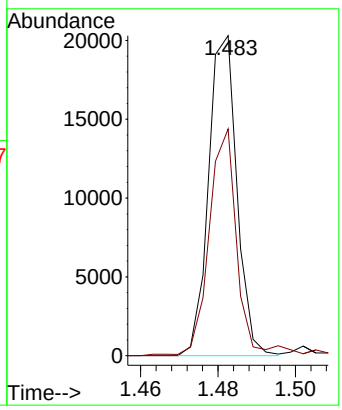




#9
Propene
Concen: 1.057 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 41 Resp: 1034

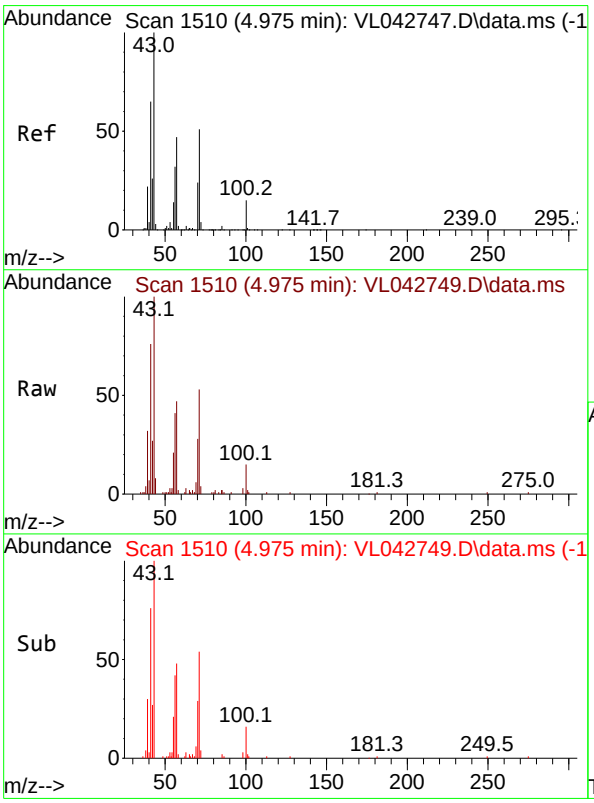
Ion	Ratio	Lower	Upper
41	100		
42	70.5	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

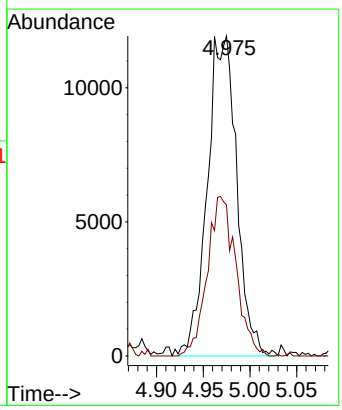
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

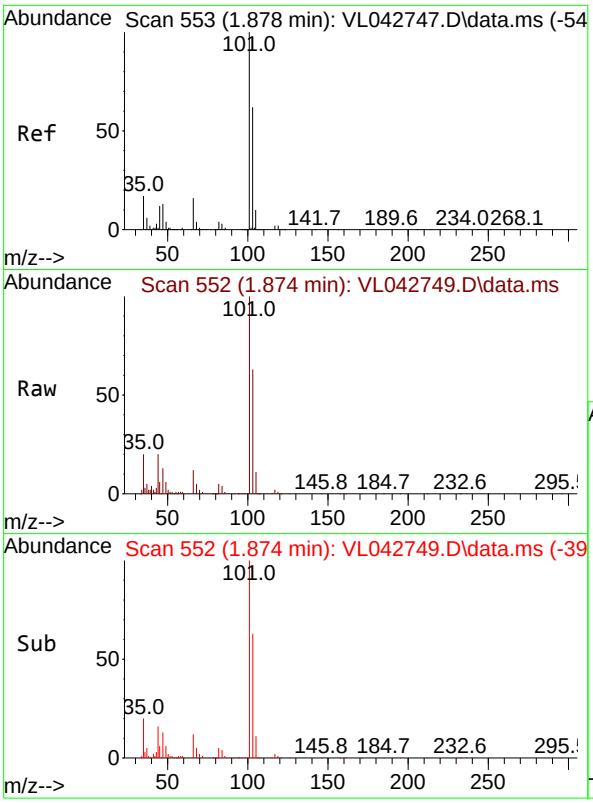


#10
Heptane
Concen: 0.993 ppbv m
RT: 4.975 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 43 Resp: 26137

Ion	Ratio	Lower	Upper
43	100		
57	48.5	39.9	59.9

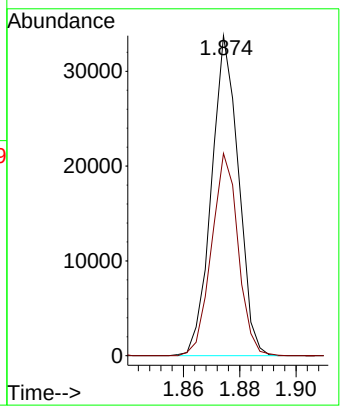




#11
Trichlorofluoromethane
Concen: 1.053 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:101 Resp: 2242

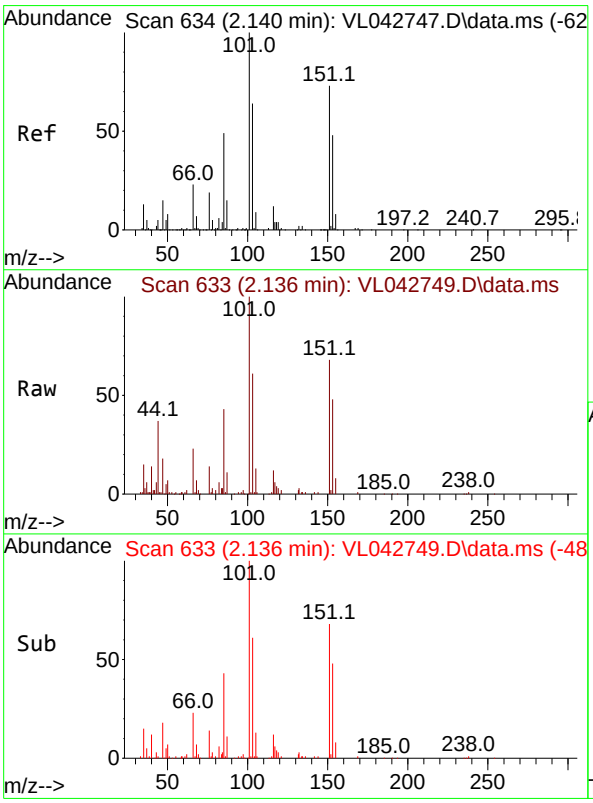
Ion	Ratio	Lower	Upper
101	100		
103	63.2	49.6	74.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

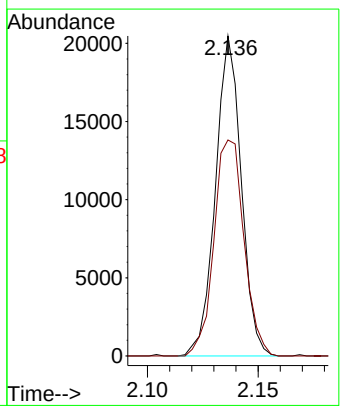
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

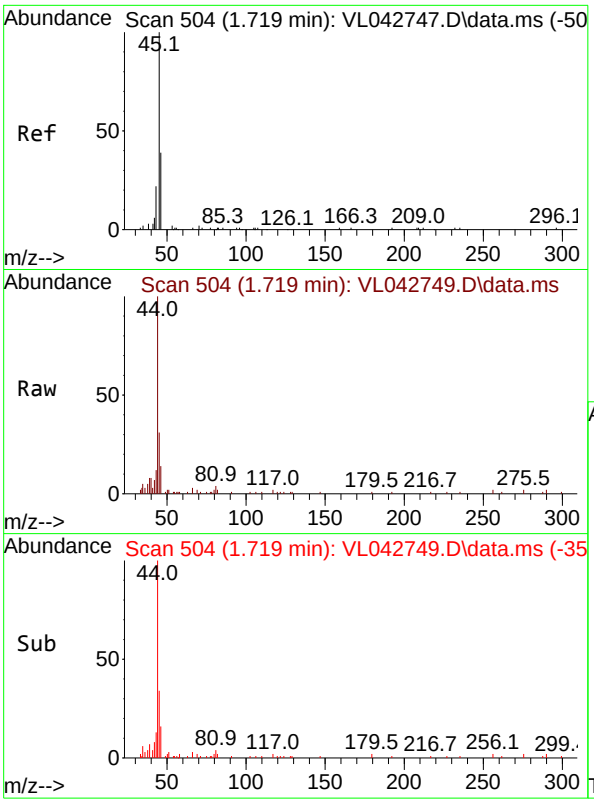


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.026 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:101 Resp: 16608

Ion	Ratio	Lower	Upper
101	100		
151	78.6	60.5	90.7

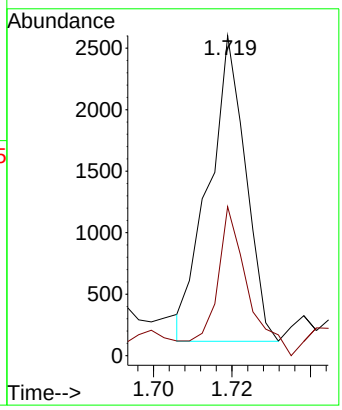




#13
Ethanol
Concen: 1.222 ppbv m
RT: 1.719 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 45 Resp: 162(

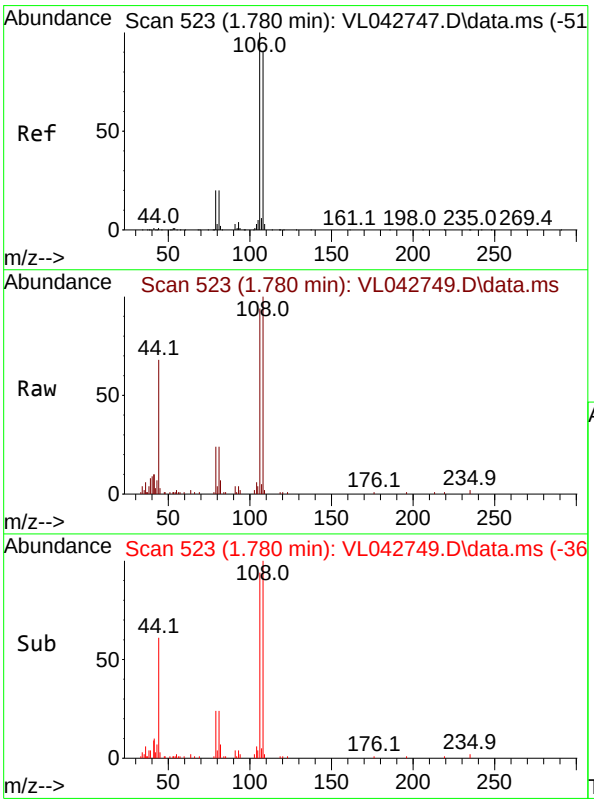
Ion	Ratio	Lower	Upper
45	100		
46	38.4	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

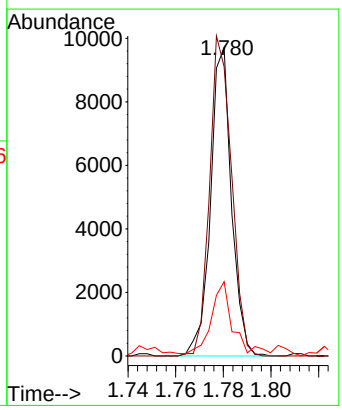
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

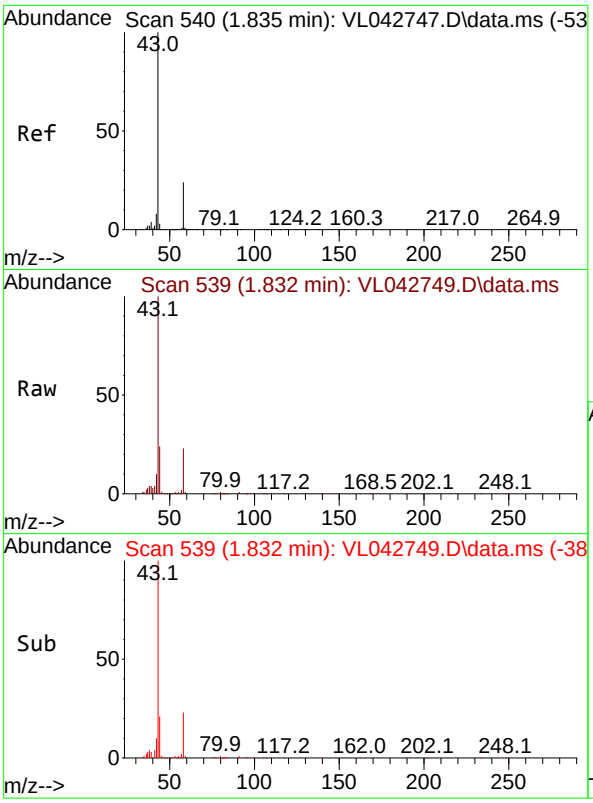


#14
Bromoethene
Concen: 1.034 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:108 Resp: 5928

Ion	Ratio	Lower	Upper
108	100		
106	108.7	84.7	127.1
79	38.6	17.4	26.2#

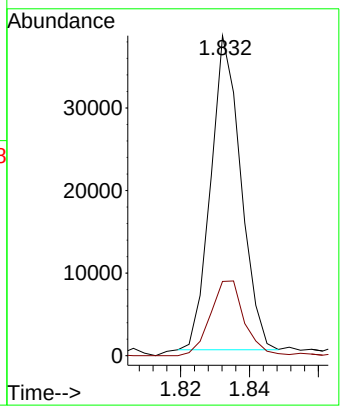




#15
Acetone
Concen: 1.071 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 43 Resp: 2311

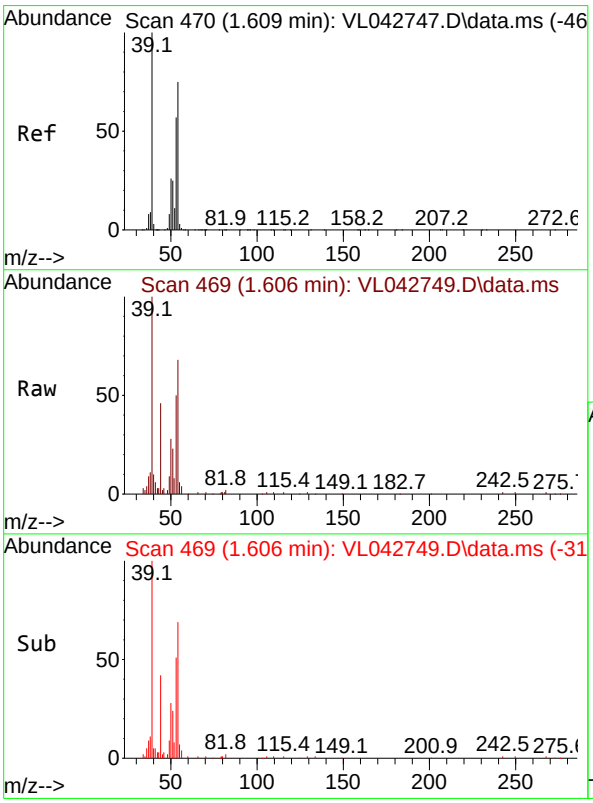
Ion	Ratio	Lower	Upper
43	100		
58	27.7	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

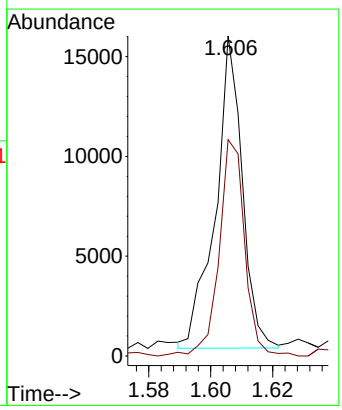
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

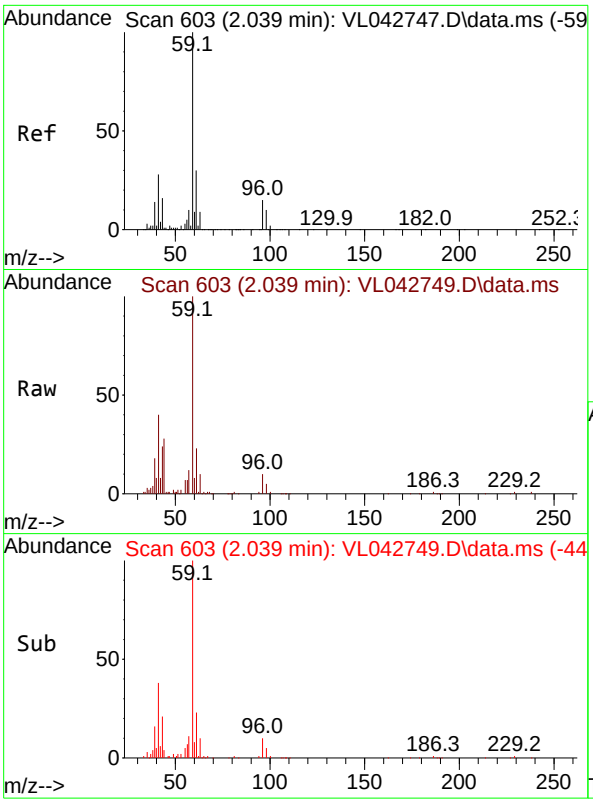


#16
1,3-Butadiene
Concen: 1.023 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 39 Resp: 9416

Ion	Ratio	Lower	Upper
39	100		
54	69.7	54.5	81.7





#17
tert-Butyl alcohol
Concen: 1.024 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

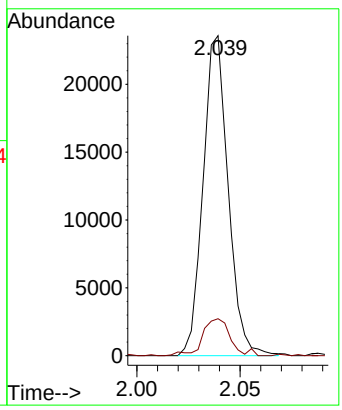
Tgt Ion: 59 Resp: 1992

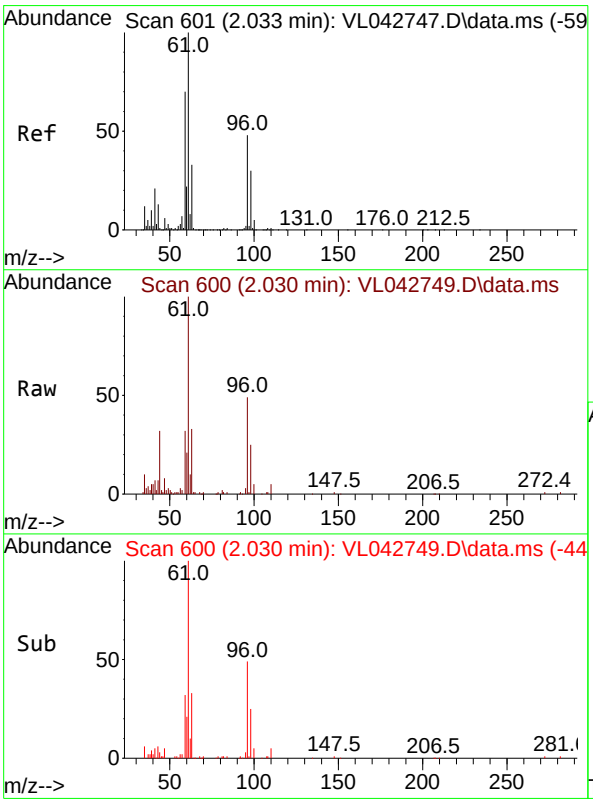
Ion	Ratio	Lower	Upper
59	100		
57	12.9	8.3	12.5#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

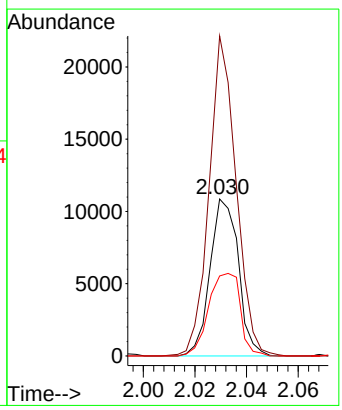


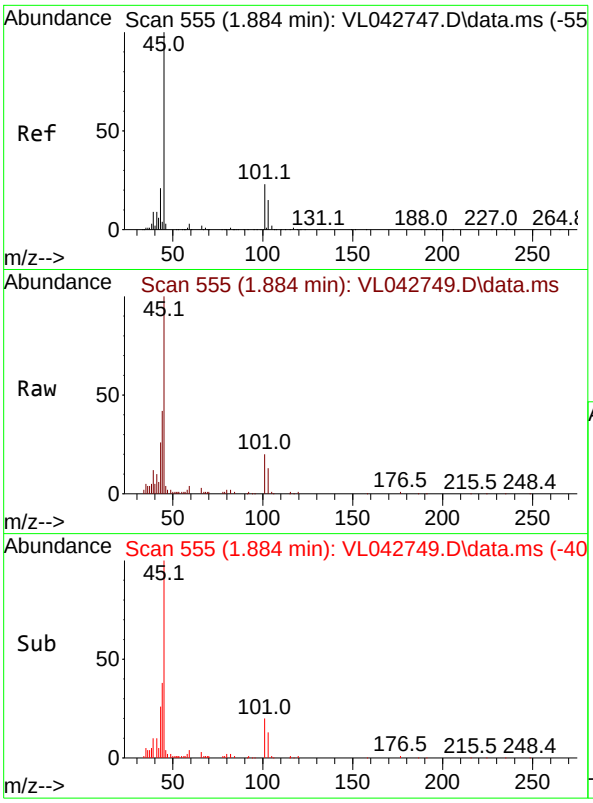


#18
1,1-Dichloroethene
Concen: 1.132 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 96 Resp: 8276

Ion	Ratio	Lower	Upper
96	100		
61	203.0	165.8	248.6
98	51.0	49.9	74.9

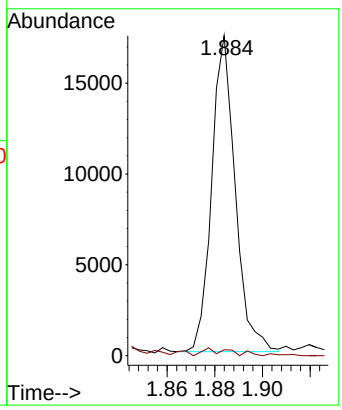




#19
Isopropyl Alcohol
Concen: 1.041 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 45 Resp: 1194

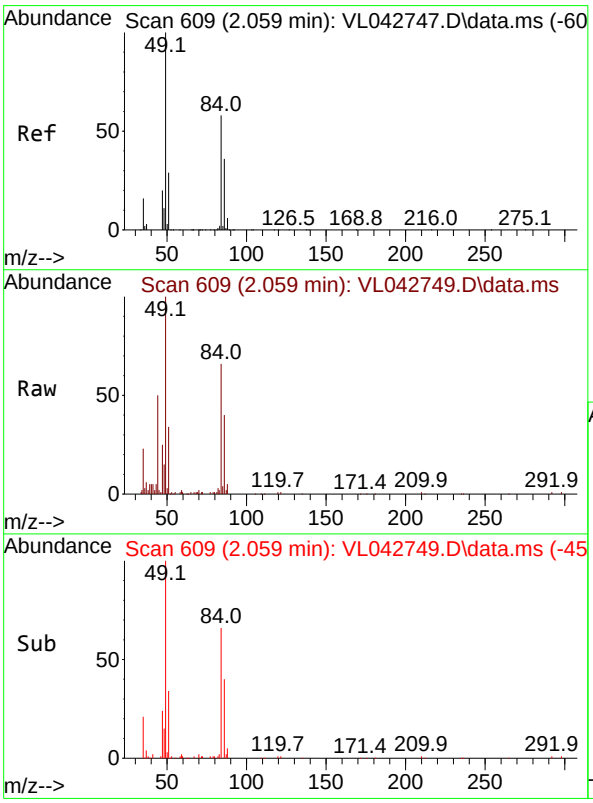
Ion	Ratio	Lower	Upper
45	100		
58	2.8	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

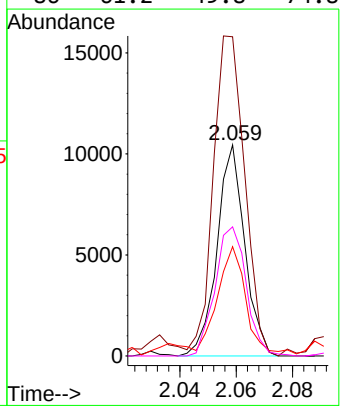
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

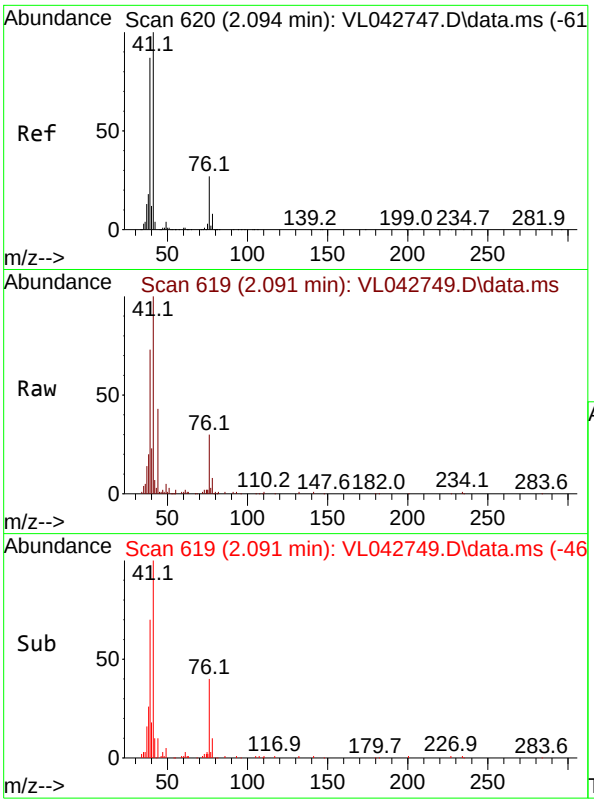


#20
Methylene Chloride
Concen: 1.052 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 84 Resp: 7153

Ion	Ratio	Lower	Upper
84	100		
49	151.3	138.6	208.0
51	50.2	40.6	61.0
86	61.2	49.8	74.8

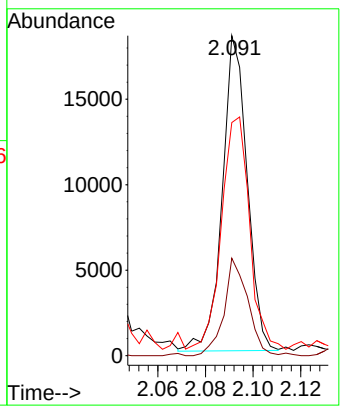




#21
Allyl Chloride
Concen: 1.006 ppbv
RT: 2.091 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 41 Resp: 1338

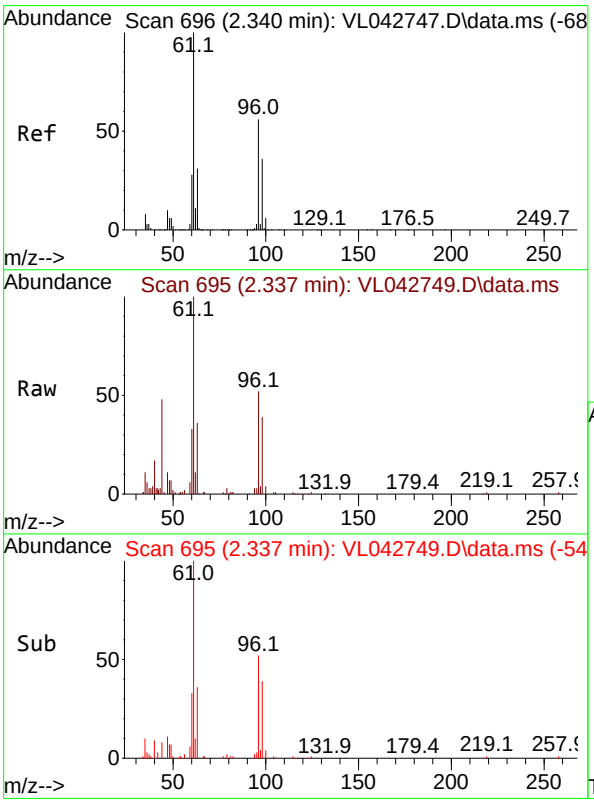
Ion	Ratio	Lower	Upper
41	100		
76	30.1	21.1	31.7
39	93.4	68.3	102.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

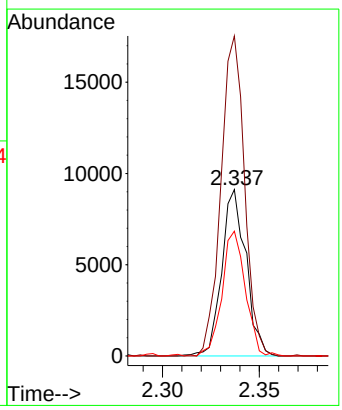
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

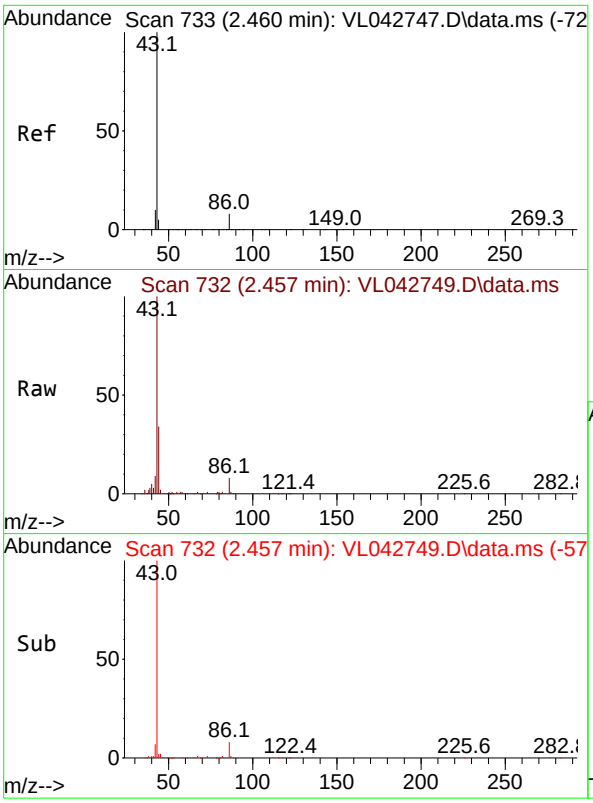


#22
trans-1,2-Dichloroethene
Concen: 1.007 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 96 Resp: 7909

Ion	Ratio	Lower	Upper
96	100		
61	192.3	142.3	213.5
98	74.2	50.6	76.0

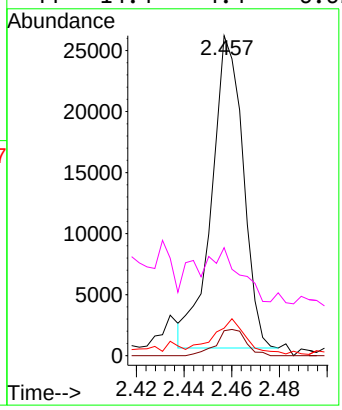




#23
Vinyl Acetate
Concen: 0.897 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 43 Resp: 2347

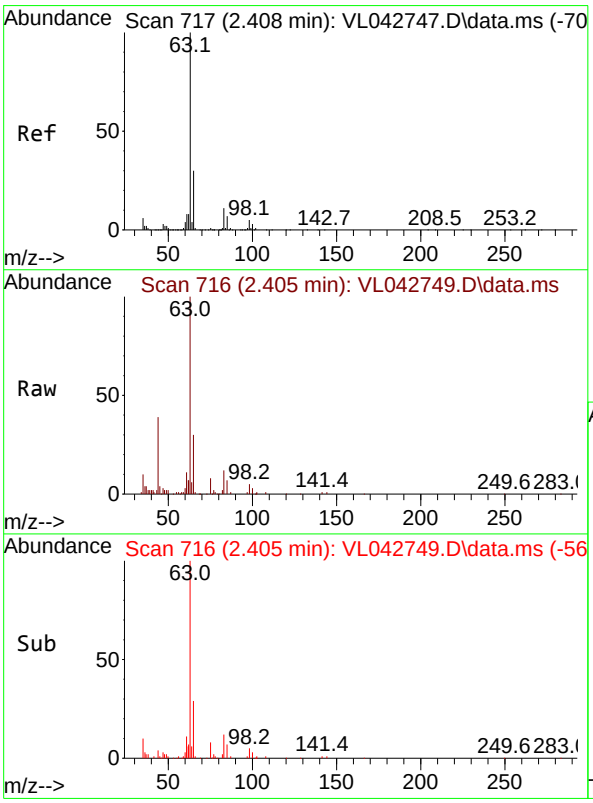
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.1	9.1
42	7.5	7.8	11.8#
44	14.4	4.4	6.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

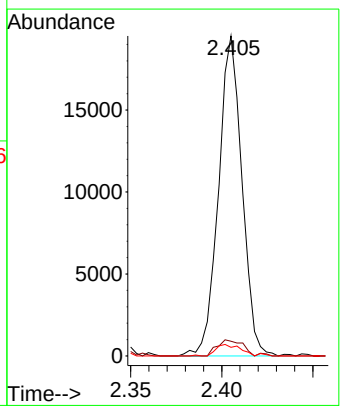
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

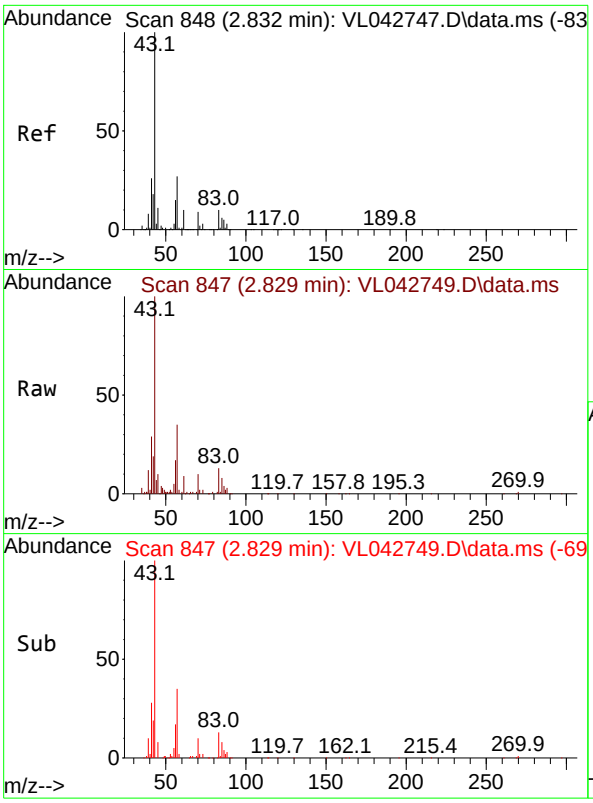


#24
1,1-Dichloroethane
Concen: 1.081 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 63 Resp: 17459

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.5	7.4
100	2.7	1.6	4.8

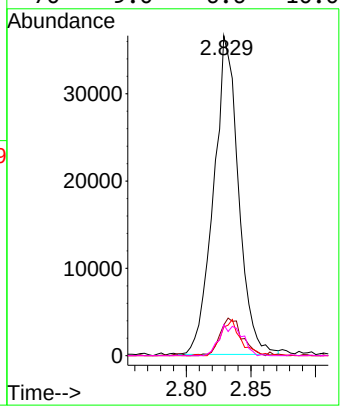




#25
Ethyl Acetate
Concen: 1.021 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 43 Resp: 4879

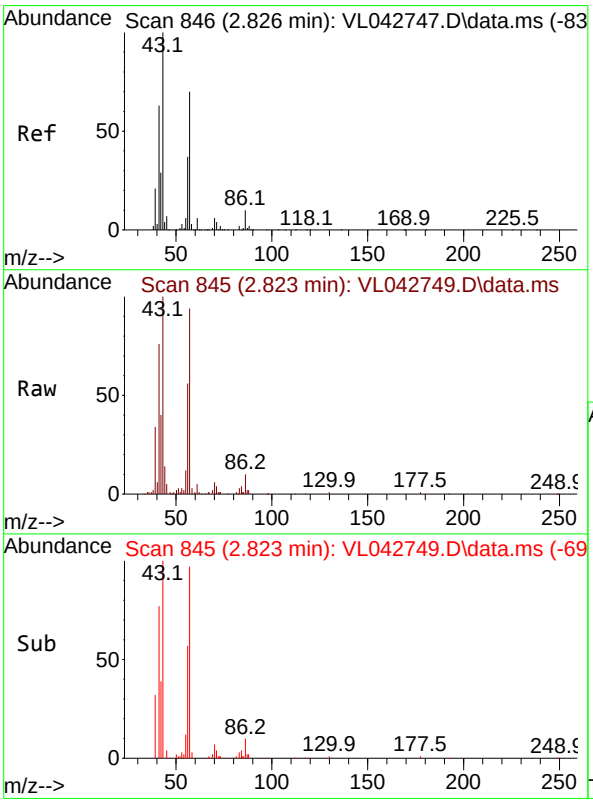
Ion	Ratio	Lower	Upper
43	100		
45	11.3	7.8	11.6
61	9.3	6.7	10.1
70	9.0	6.6	10.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

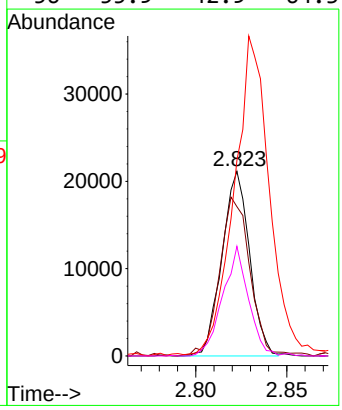
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

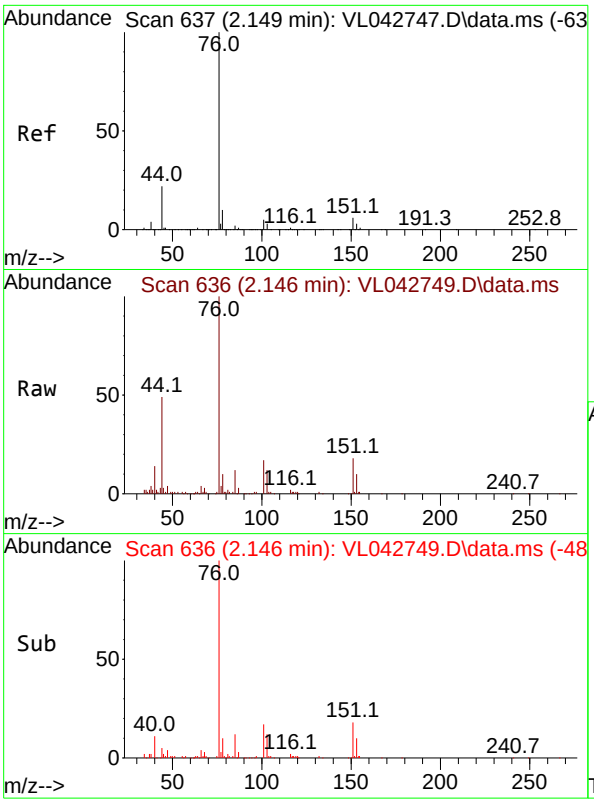


#26
Hexane
Concen: 1.063 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 57 Resp: 22279

Ion	Ratio	Lower	Upper
57	100		
41	98.5	75.4	113.2
43	230.7	185.0	277.6
56	55.9	42.9	64.3

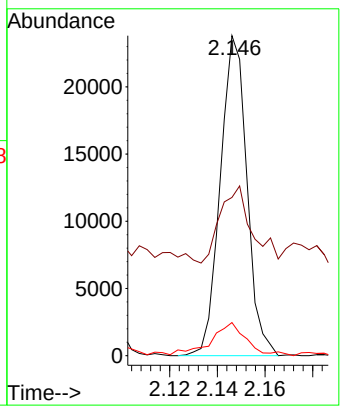




#27
Carbon Disulfide
Concen: 1.031 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 76 Resp: 1848

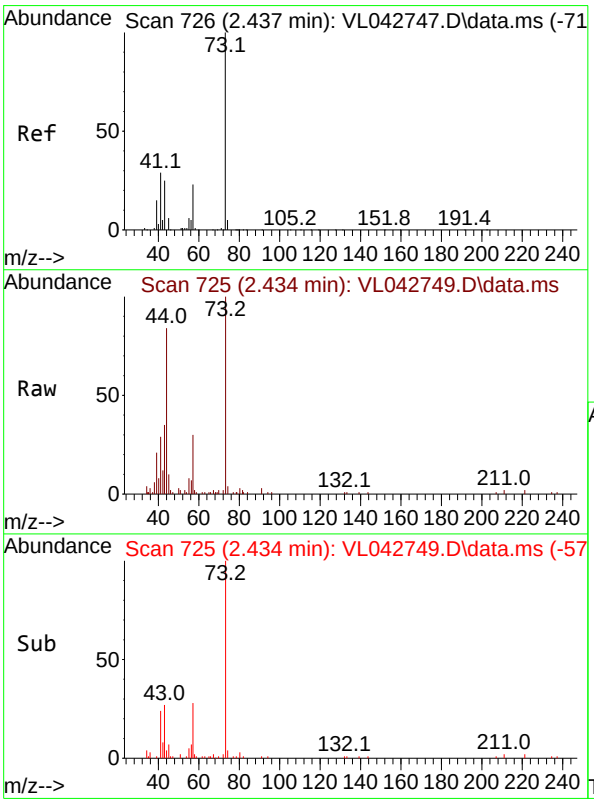
Ion	Ratio	Lower	Upper
76	100		
44	115.6	19.3	28.9#
78	14.9	9.9	14.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

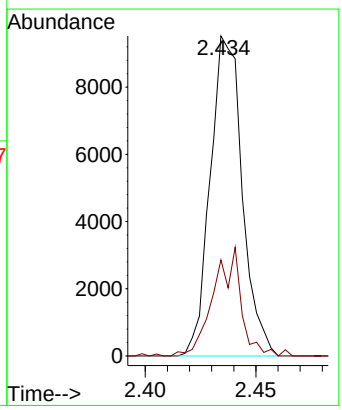
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

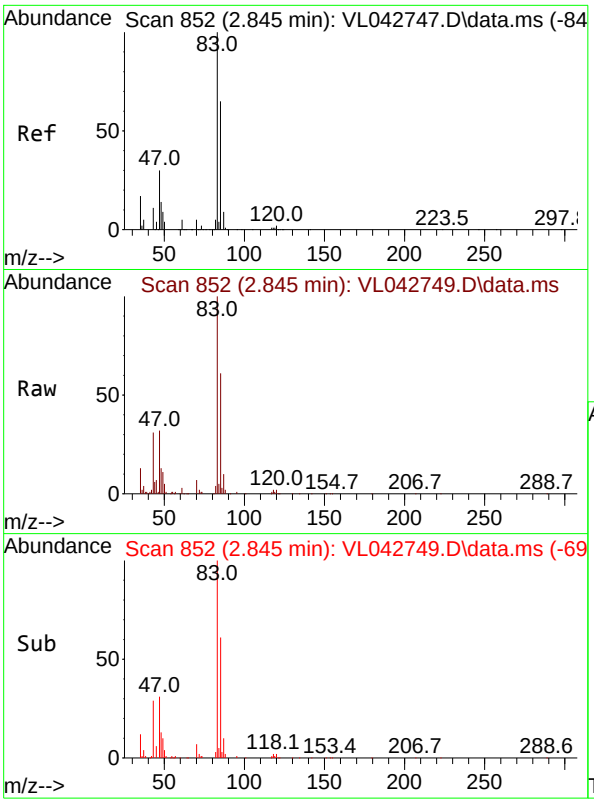


#28
Methyl tert-Butyl Ether
Concen: 0.968 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 73 Resp: 9587

Ion	Ratio	Lower	Upper
73	100		
57	29.7	19.8	29.8

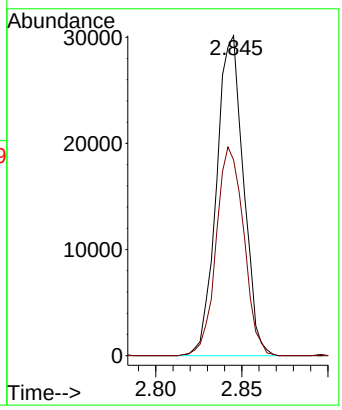




#29
Chloroform
Concen: 1.015 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 83 Resp: 3288

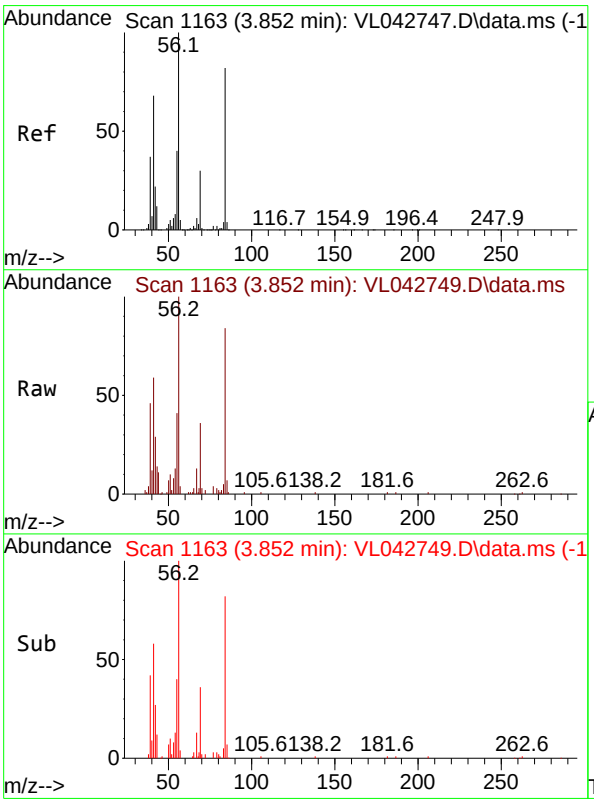
Ion	Ratio	Lower	Upper
83	100		
85	61.2	52.2	78.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

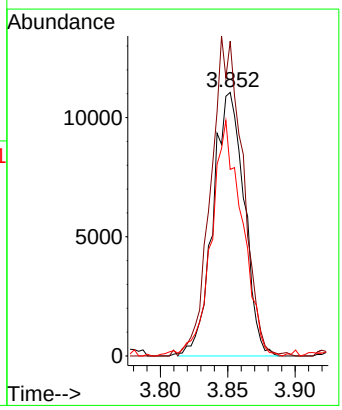
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

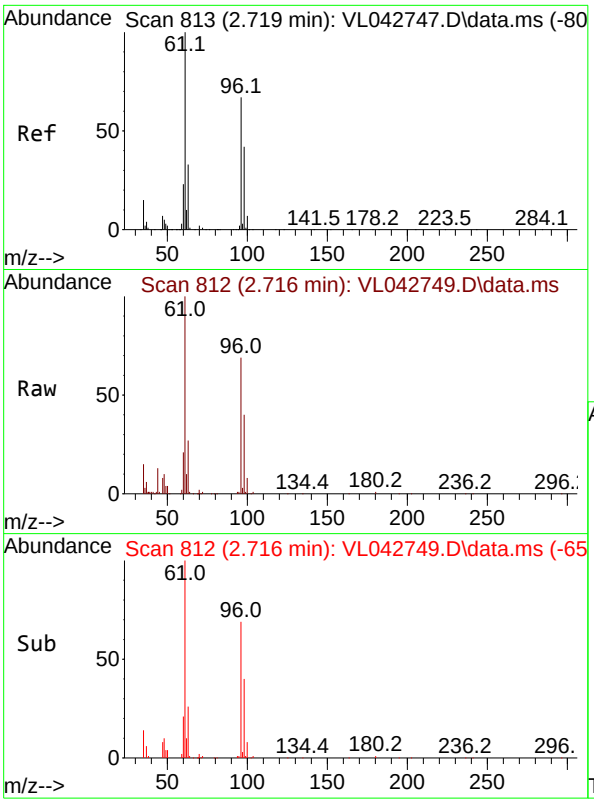


#30
Cyclohexane
Concen: 1.003 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 84 Resp: 17824

Ion	Ratio	Lower	Upper
84	100		
56	124.3	97.5	146.3
41	88.5	67.2	100.8

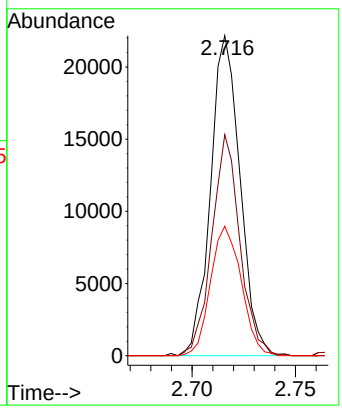




#31
cis-1,2-Dichloroethene
Concen: 1.021 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 61 Resp: 2197

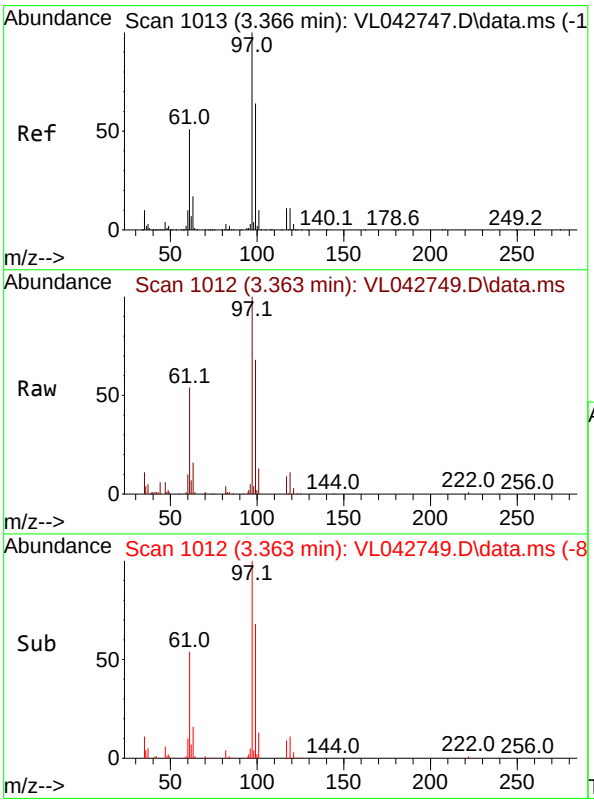
Ion	Ratio	Lower	Upper
61	100		
96	69.0	53.5	80.3
98	40.5	33.6	50.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

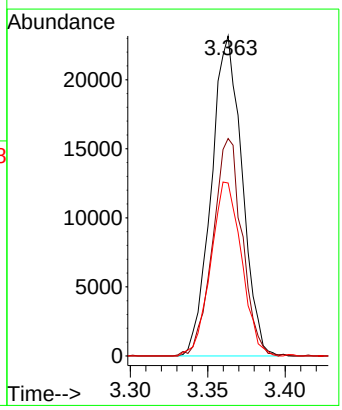
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

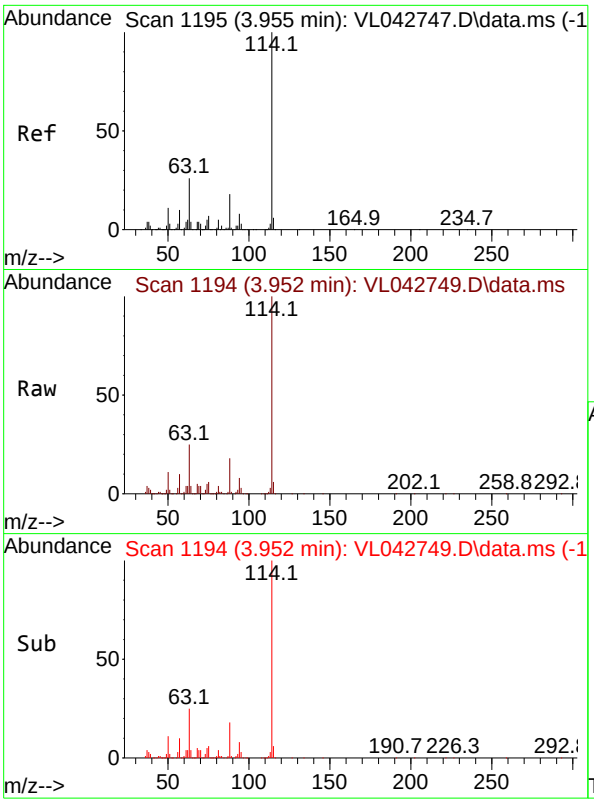


#32
1,1,1-Trichloroethane
Concen: 0.949 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 97 Resp: 32003

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.0	76.6
61	54.5	40.9	61.3

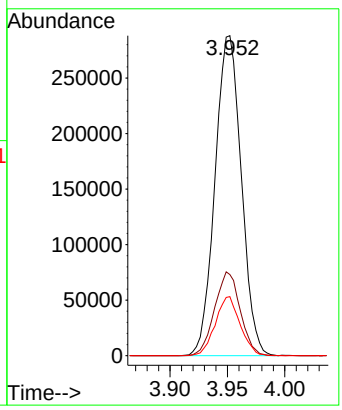




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:114 Resp: 45977

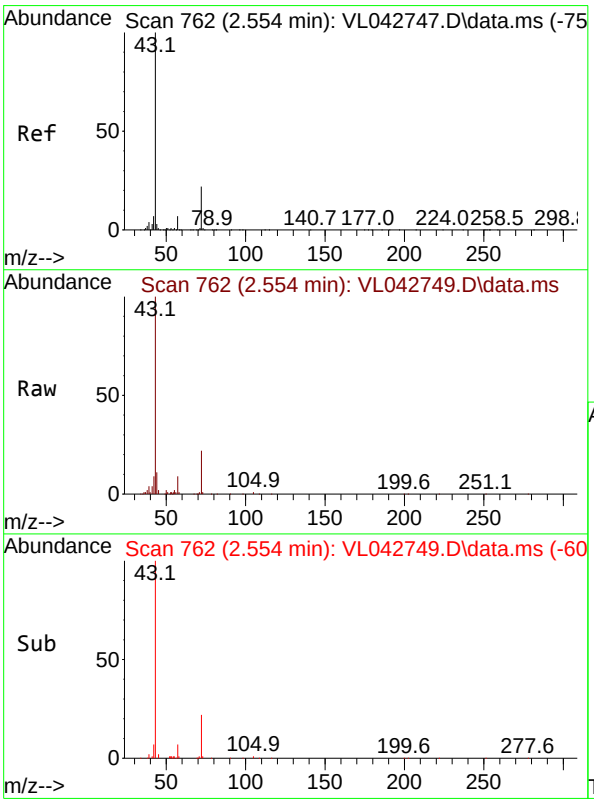
Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.5	30.7
88	17.4	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

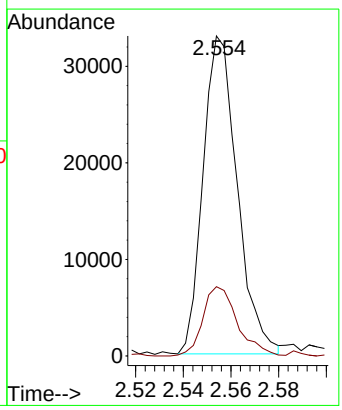
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

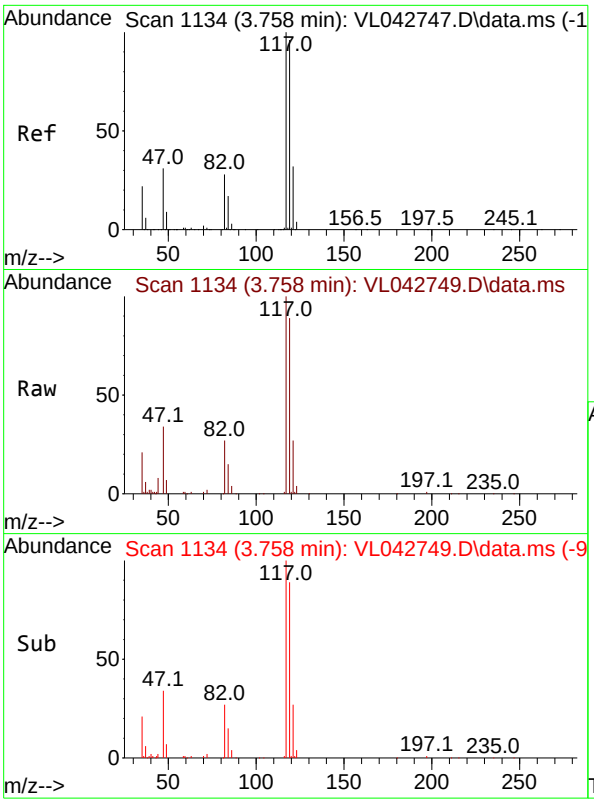


#34
2-Butanone
Concen: 1.007 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 43 Resp: 32783

Ion	Ratio	Lower	Upper
43	100		
72	22.7	17.4	26.0

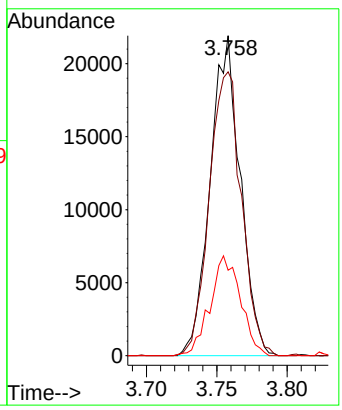




#35
Carbon Tetrachloride
Concen: 0.954 ppbv
RT: 3.758 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:117 Resp: 3261

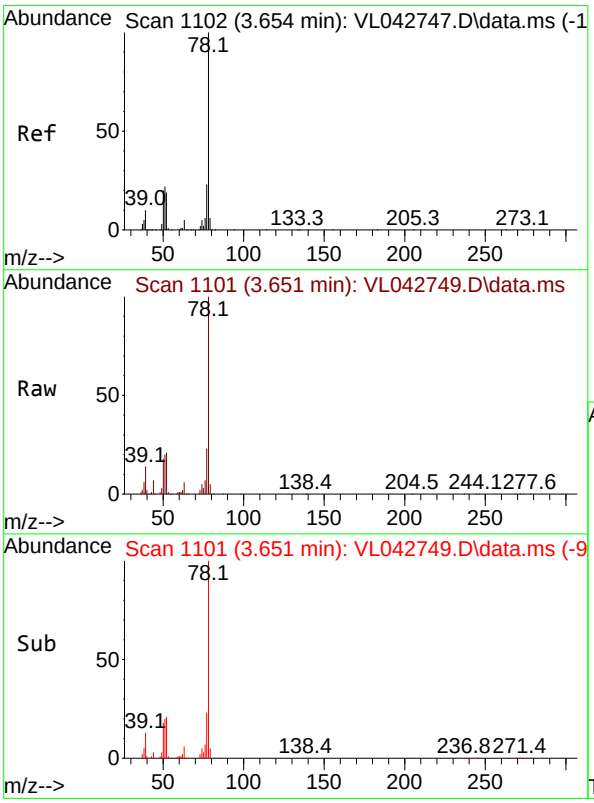
Ion	Ratio	Lower	Upper
117	100		
119	88.7	77.1	115.7
121	26.7	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

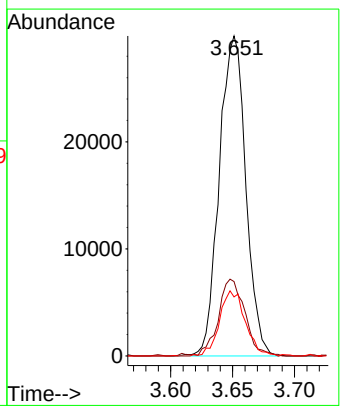
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

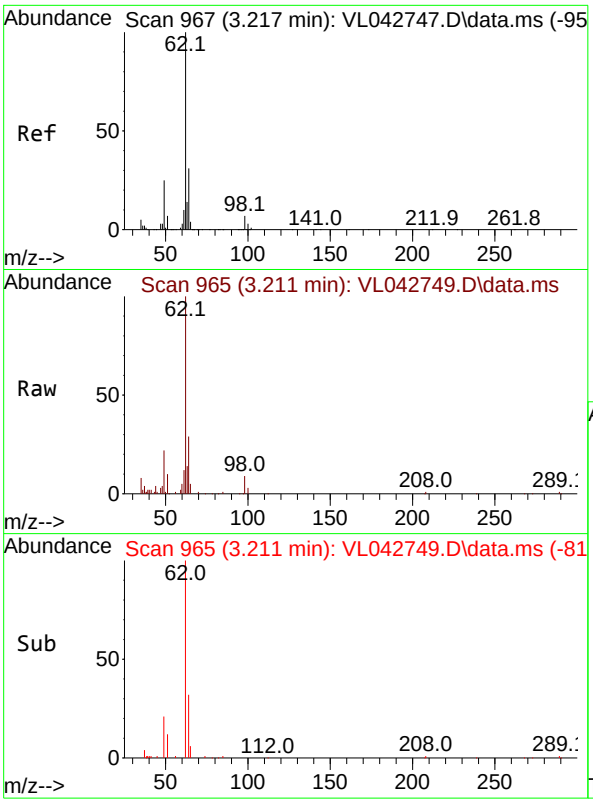


#36
Benzene
Concen: 1.024 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 78 Resp: 44638

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.5	27.7
50	18.4	16.2	24.2

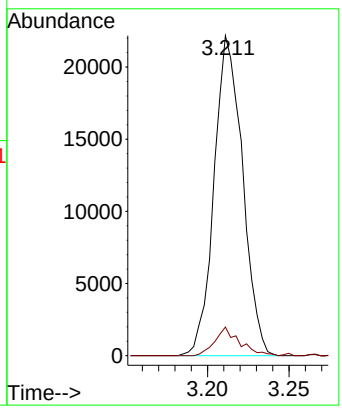




#37
1,2-Dichloroethane
Concen: 1.025 ppbv
RT: 3.211 min Scan# 9
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 62 Resp: 2690

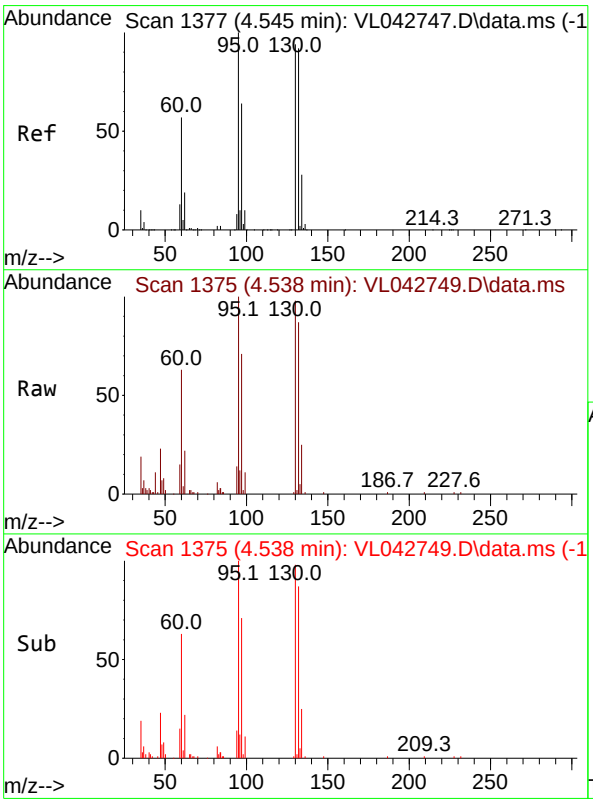
Ion	Ratio	Lower	Upper
62	100		
98	8.0	5.2	7.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

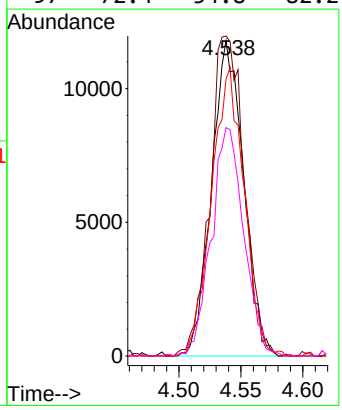
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

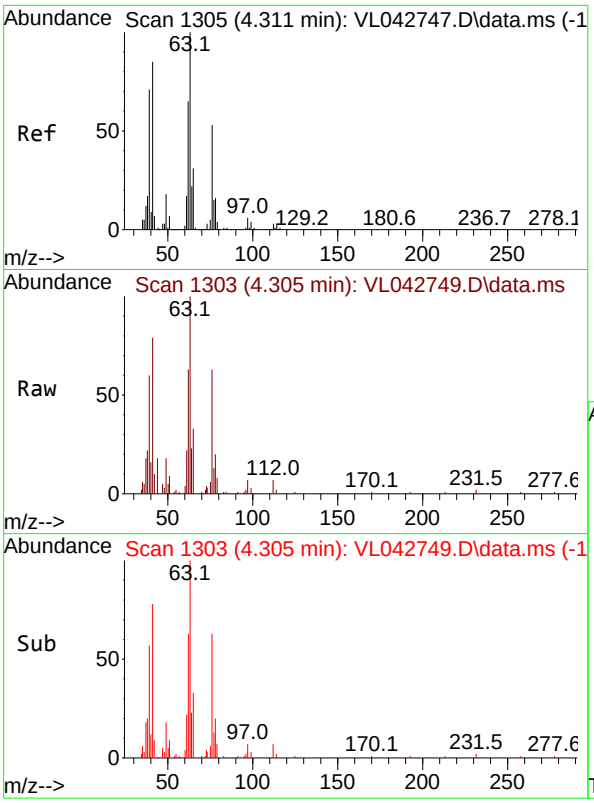


#38
Trichloroethene
Concen: 1.005 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:130 Resp: 21122

Ion	Ratio	Lower	Upper
130	100		
95	101.6	85.4	128.2
132	87.5	78.2	117.2
97	72.4	54.8	82.2

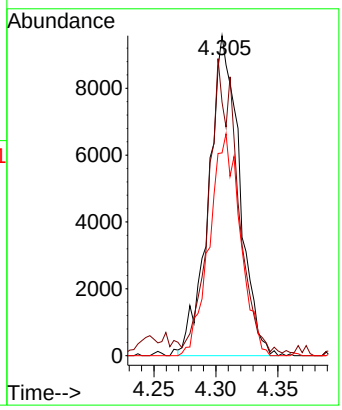




#39
1,2-Dichloropropane
Concen: 1.033 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 63 Resp: 1662

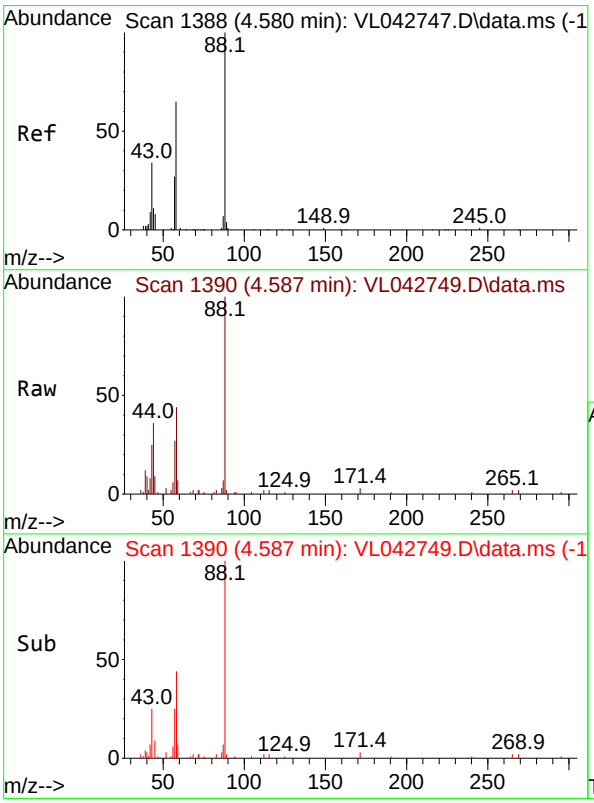
Ion	Ratio	Lower	Upper
63	100		
41	77.8	68.2	102.4
62	63.3	52.0	78.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

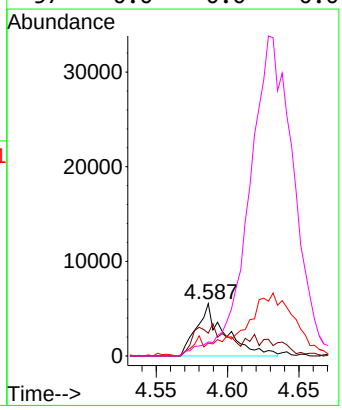
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

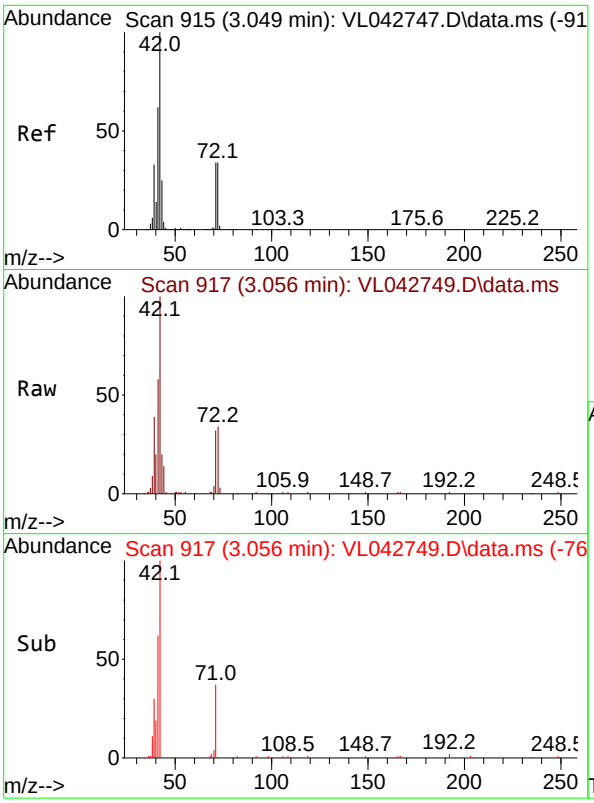


#40
1,4-Dioxane
Concen: 1.030 ppbv m
RT: 4.587 min Scan# 1390
Delta R.T. 0.006 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 88 Resp: 7811

Ion	Ratio	Lower	Upper
88	100		
58	0.0	58.8	88.2#
43	0.0	28.9	43.3#
57	0.0	0.0	0.0

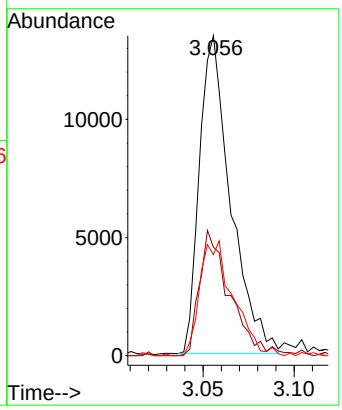




#41
Tetrahydrofuran
Concen: 0.984 ppbv
RT: 3.056 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 42 Resp: 1609

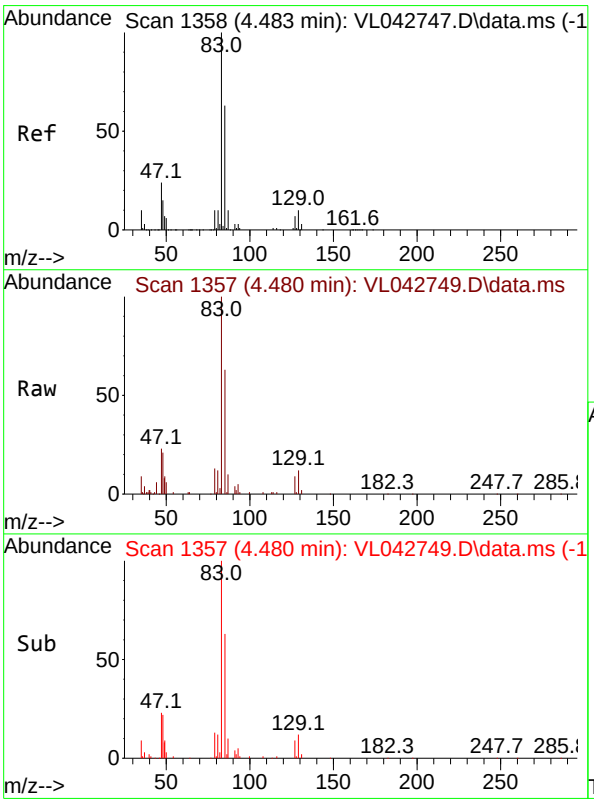
Ion	Ratio	Lower	Upper
42	100		
72	39.1	30.9	46.3
71	38.6	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

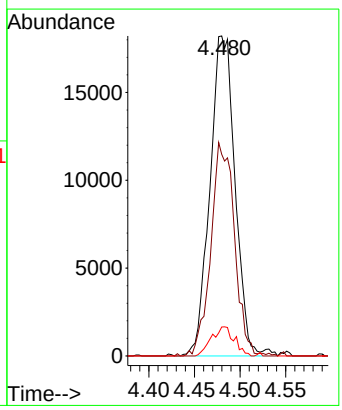
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

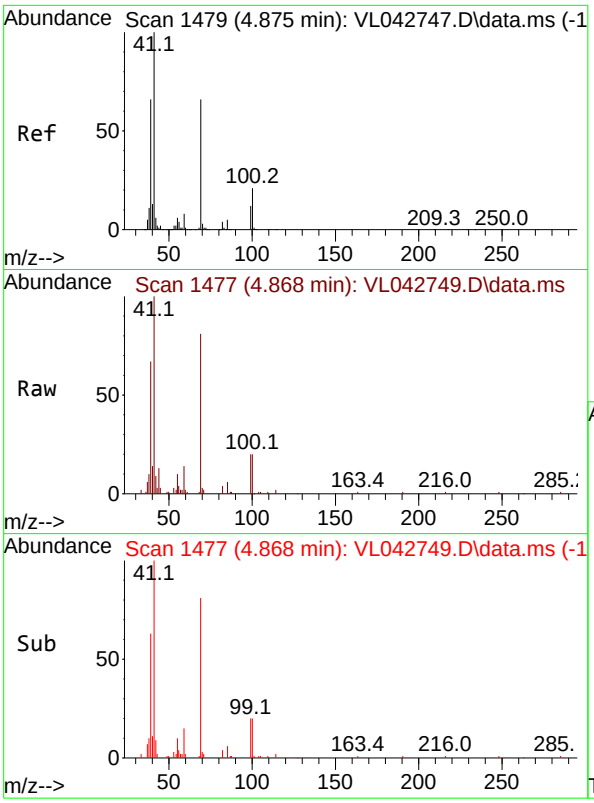


#42
Bromodichloromethane
Concen: 1.023 ppbv m
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 83 Resp: 34995

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.2	75.4
127	9.1	5.4	8.2#

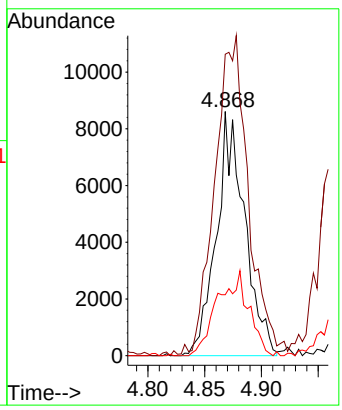




#43
Methyl Methacrylate
Concen: 0.961 ppbv m
RT: 4.868 min Scan# 14
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 69 Resp: 1488

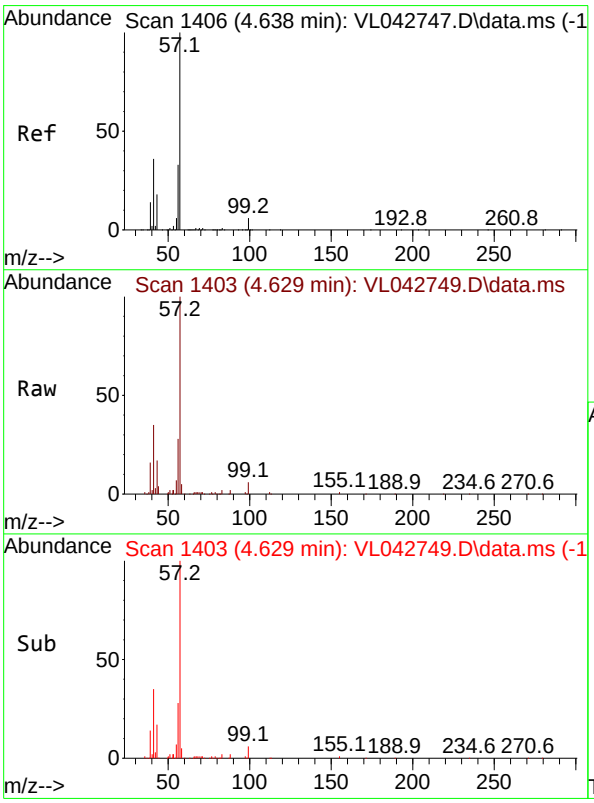
Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	0.0	28.6	42.8#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

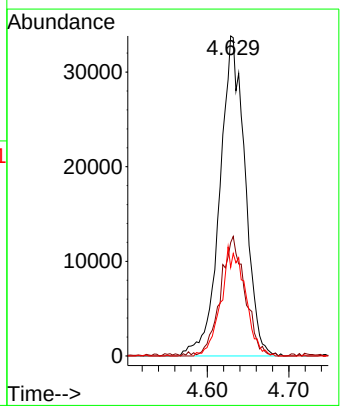
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

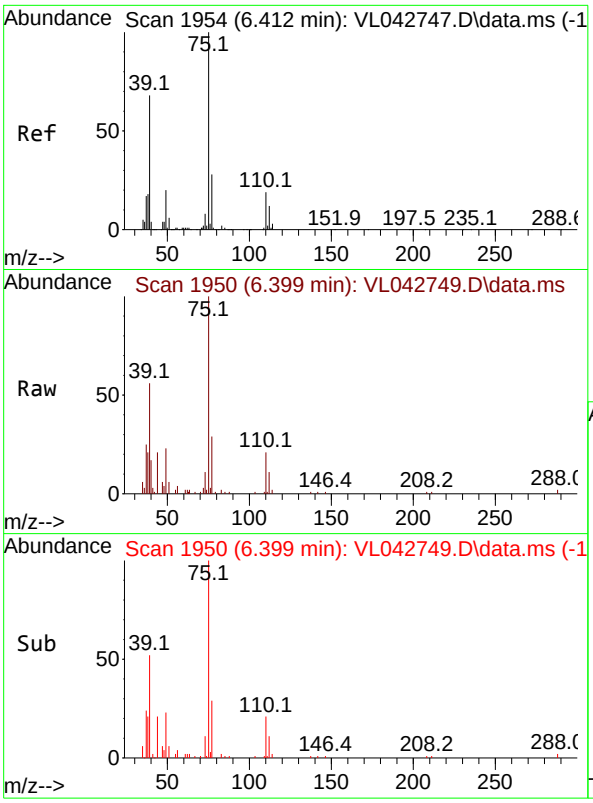


#44
2,2,4-Trimethylpentane
Concen: 1.026 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 57 Resp: 72865

Ion	Ratio	Lower	Upper
57	100		
41	36.4	28.3	42.5
56	32.5	25.8	38.6

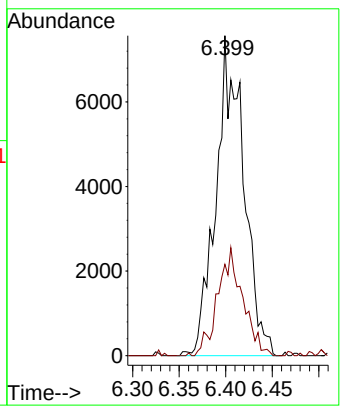




#45
t-1,3-Dichloropropene
Concen: 0.900 ppbv m
RT: 6.399 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 75 Resp: 1564

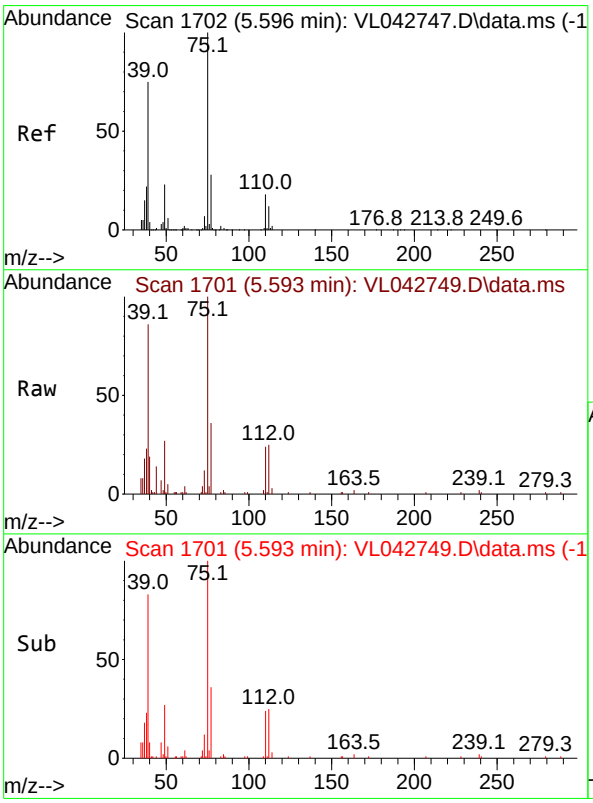
Ion	Ratio	Lower	Upper
75	100		
77	28.5	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

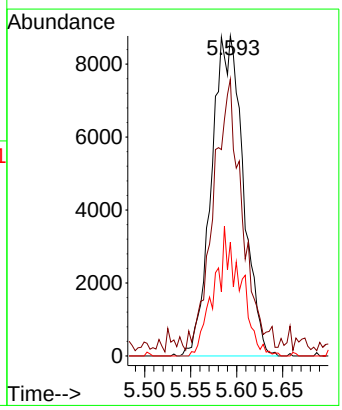
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

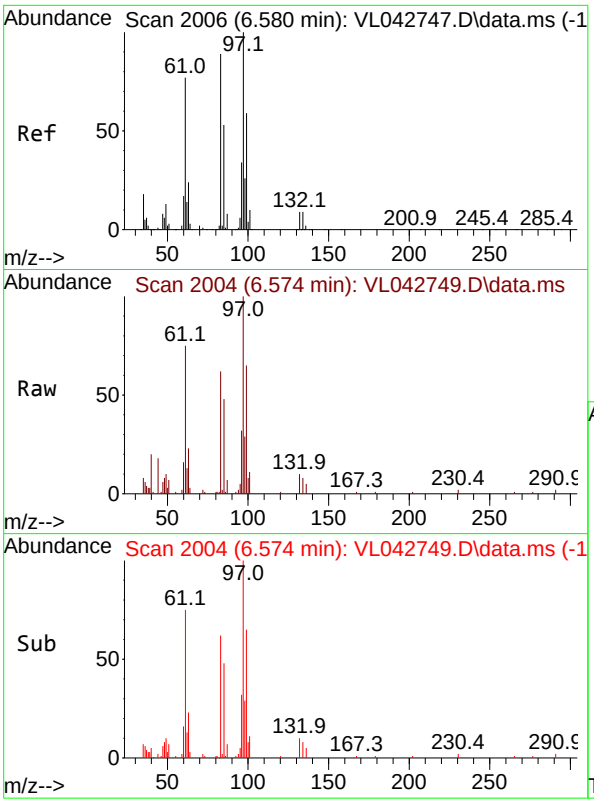


#46
cis-1,3-Dichloropropene
Concen: 0.958 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 75 Resp: 21088

Ion	Ratio	Lower	Upper
75	100		
39	86.5	60.2	90.2
77	35.6	22.6	34.0#

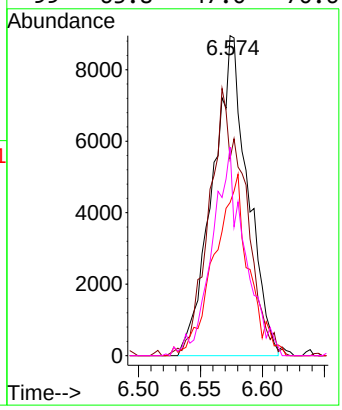




#47
1,1,2-Trichloroethane
Concen: 1.029 ppbv
RT: 6.574 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 97 Resp: 1764

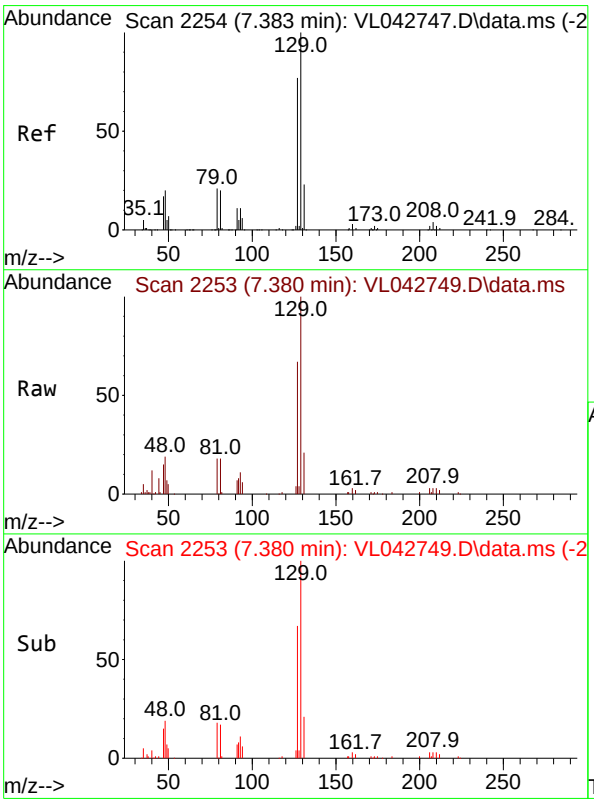
Ion	Ratio	Lower	Upper
97	100		
83	60.2	71.1	106.7#
85	46.8	43.0	64.4
99	63.8	47.0	70.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

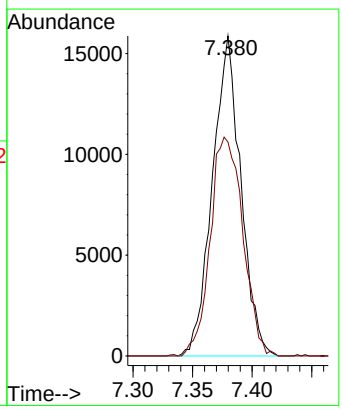
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

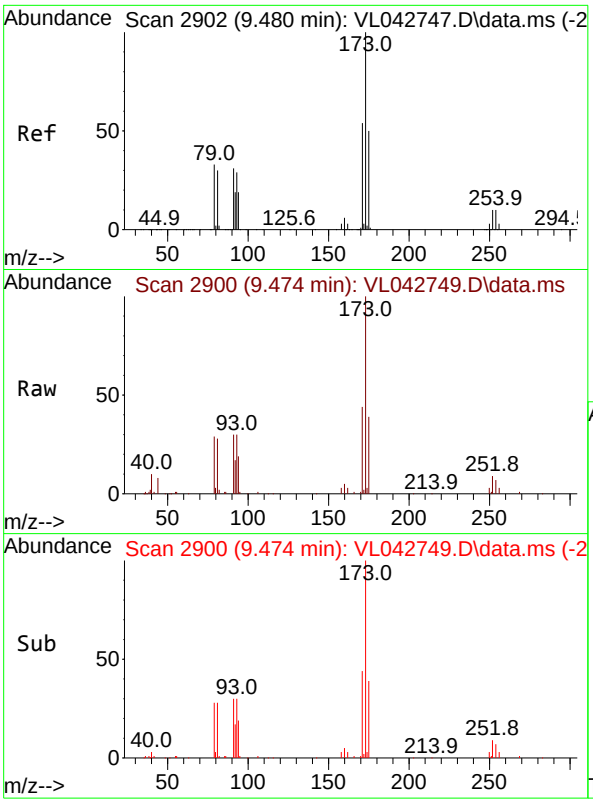


#48
Dibromochloromethane
Concen: 0.965 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:129 Resp: 26259

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.7	116.1

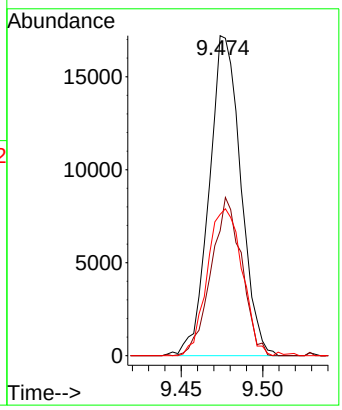




#49
Bromoform
Concen: 0.973 ppbv
RT: 9.474 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:173 Resp: 2308

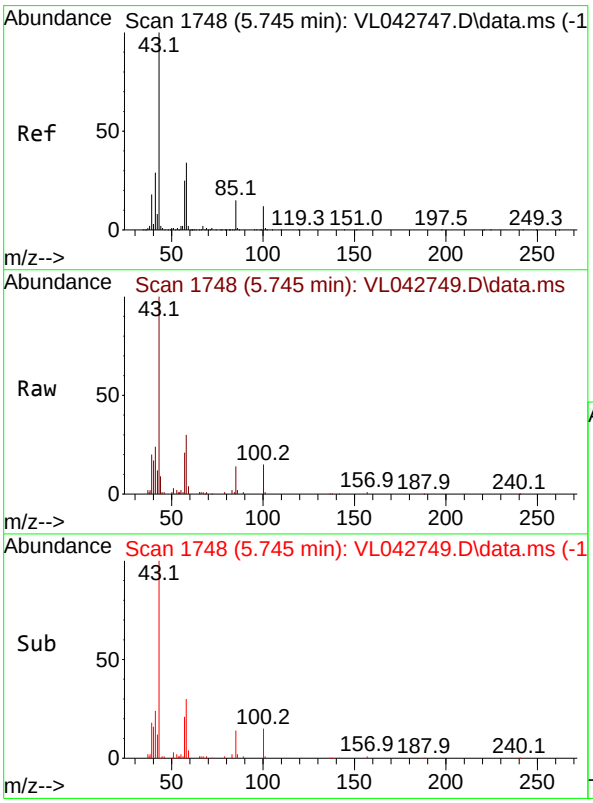
Ion	Ratio	Lower	Upper
173	100		
175	48.0	38.4	57.6
171	51.3	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

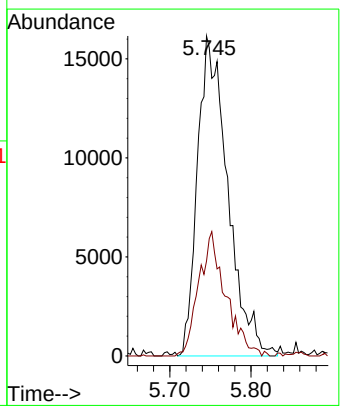
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

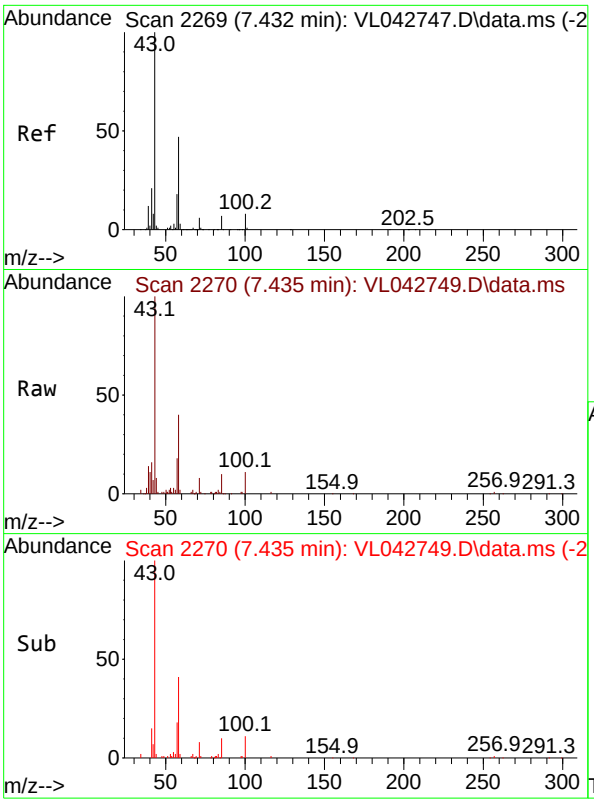


#50
4-Methyl-2-Pentanone
Concen: 1.006 ppbv m
RT: 5.745 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 43 Resp: 41715

Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.8	41.8#





#51
2-Hexanone
Concen: 0.939 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

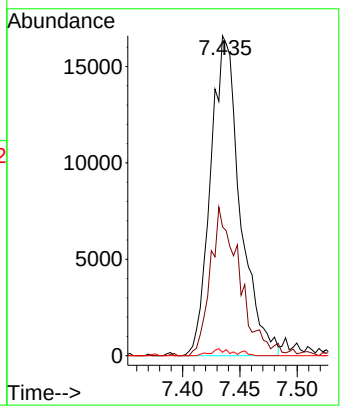
Tgt Ion: 43 Resp: 2976

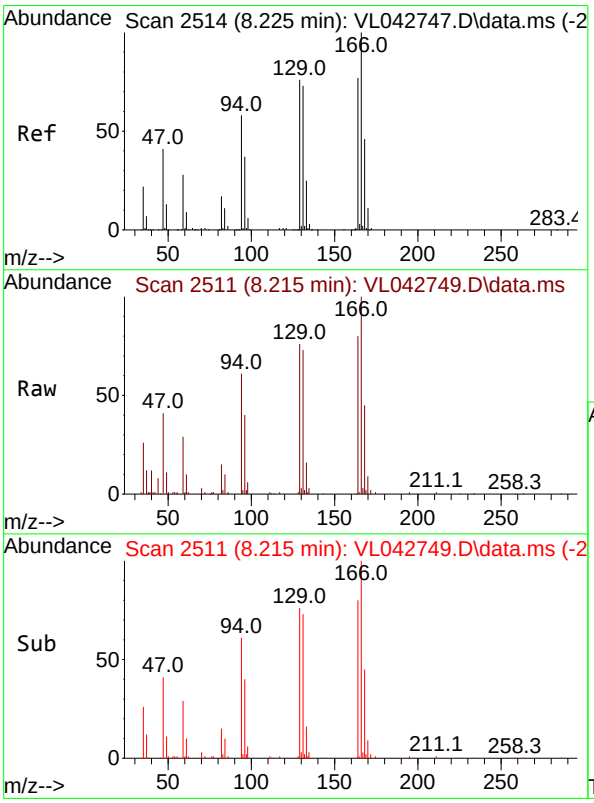
Ion	Ratio	Lower	Upper
43	100		
58	47.5	38.0	57.0
98	1.6	0.2	0.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

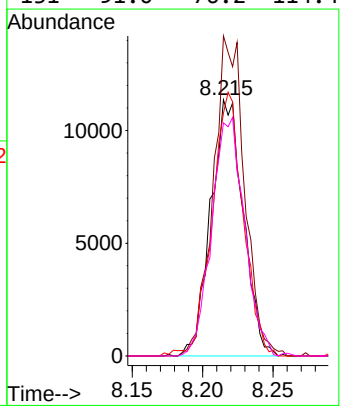


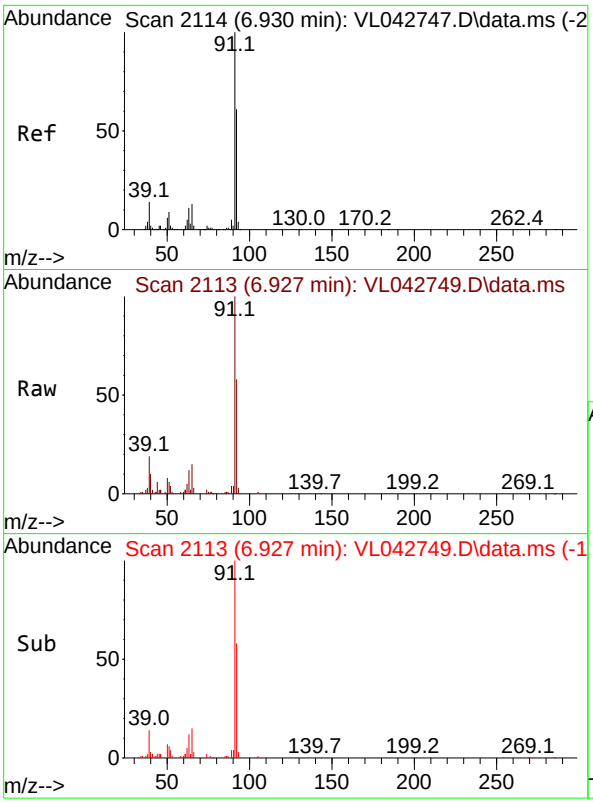


#52
Tetrachloroethene
Concen: 1.001 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:164 Resp: 18131

Ion	Ratio	Lower	Upper
164	100		
166	124.9	104.0	156.0
129	94.8	79.2	118.8
131	91.0	76.2	114.4

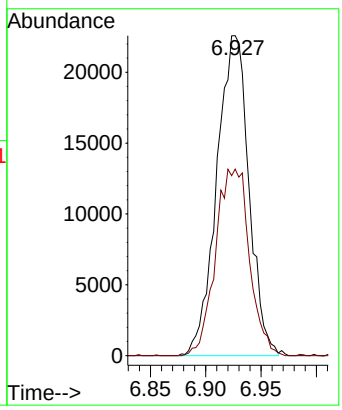




#53
Toluene
Concen: 0.976 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 4564

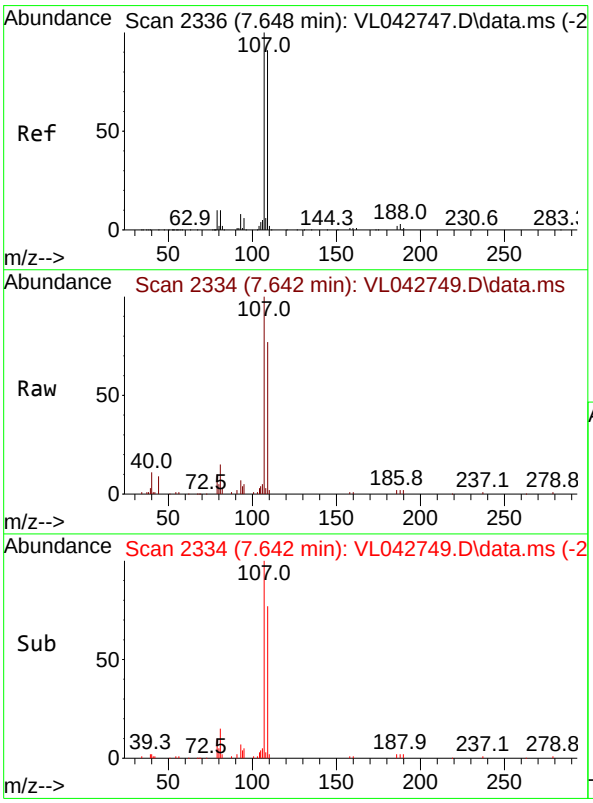
Ion	Ratio	Lower	Upper
91	100		
92	61.5	48.0	72.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

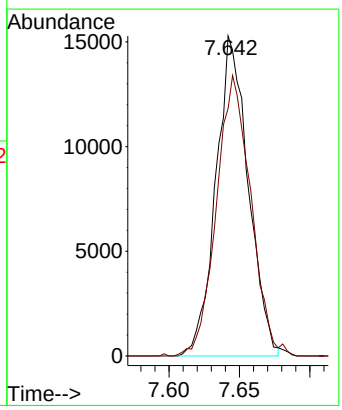
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

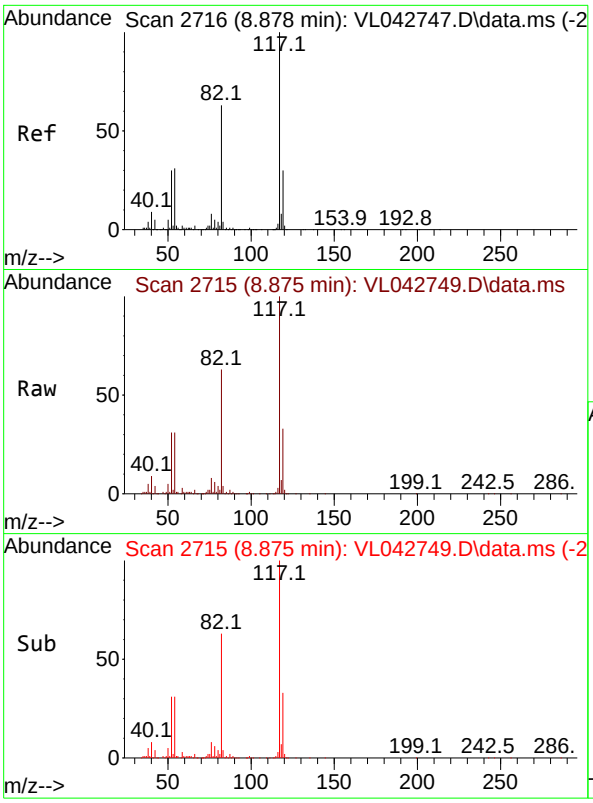


#54
1,2-Dibromoethane
Concen: 1.007 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:107 Resp: 24427

Ion	Ratio	Lower	Upper
107	100		
109	76.9	72.7	109.1

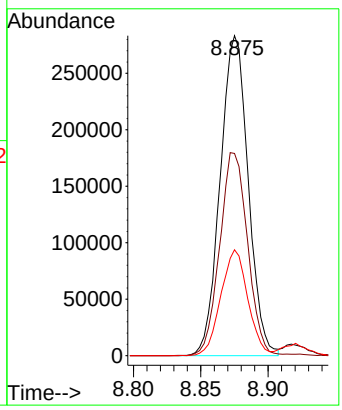




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:117 Resp: 41001

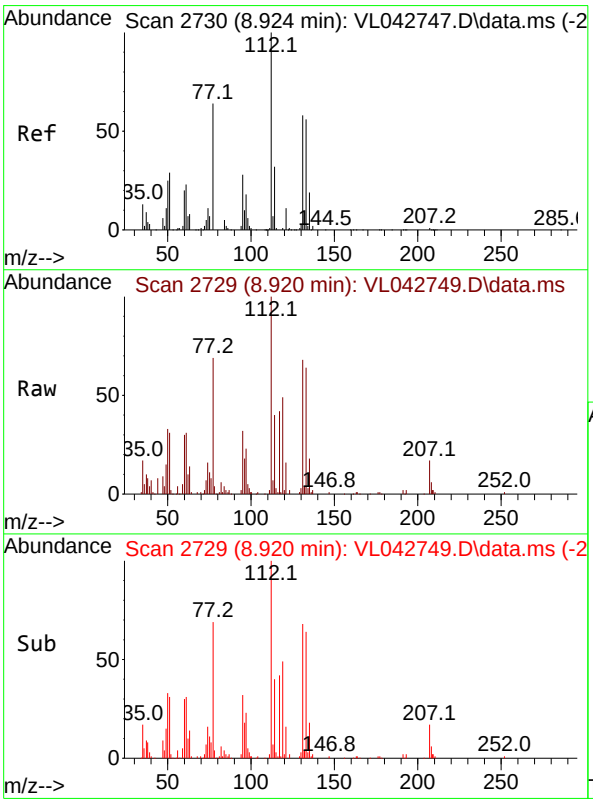
Ion	Ratio	Lower	Upper
117	100		
82	63.5	53.3	79.9
119	32.0	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

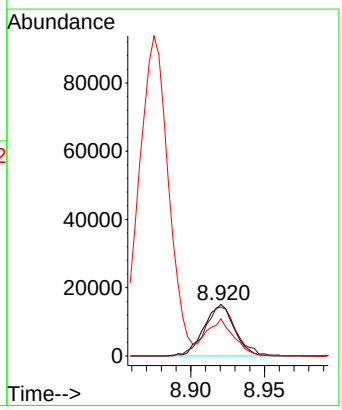
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

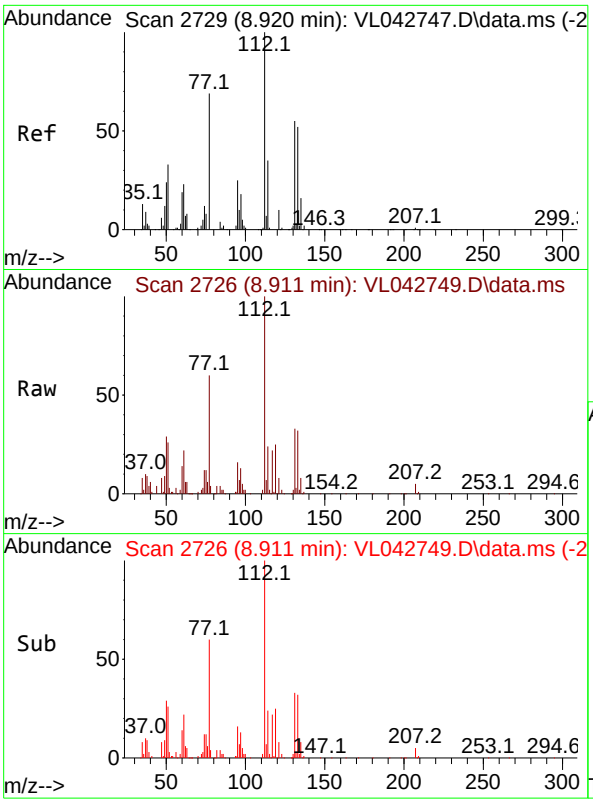


#56
1,1,1,2-Tetrachloroethane
Concen: 1.000 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:131 Resp: 21319

Ion	Ratio	Lower	Upper
131	100		
133	102.0	76.8	115.2
119	58.6	49.7	74.5

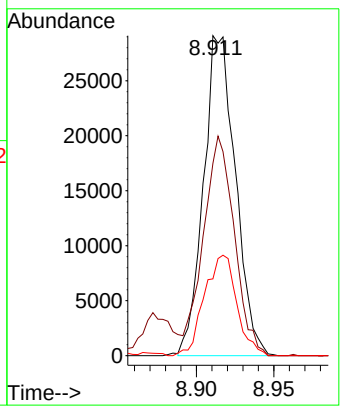




#57
Chlorobenzene
Concen: 1.053 ppbv
RT: 8.911 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:112 Resp: 4178

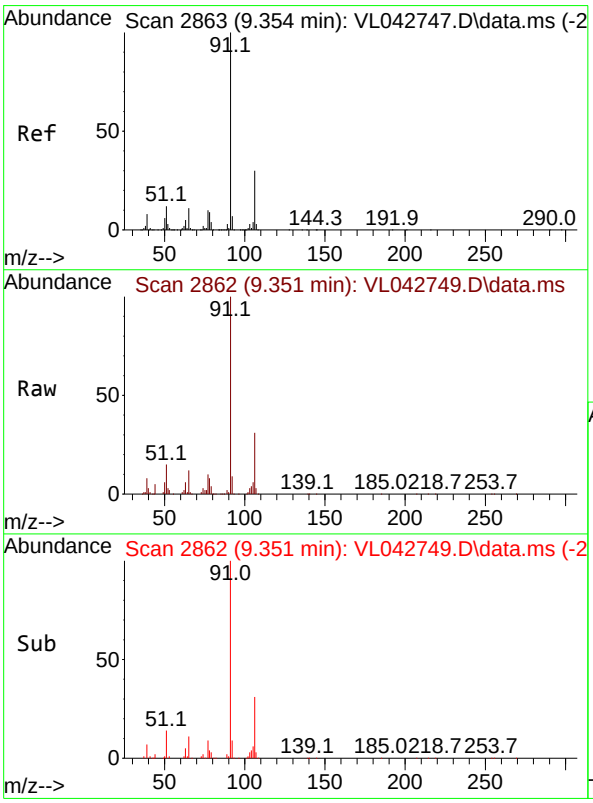
Ion	Ratio	Lower	Upper
112	100		
77	60.1	56.4	84.6
114	24.0	31.2	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

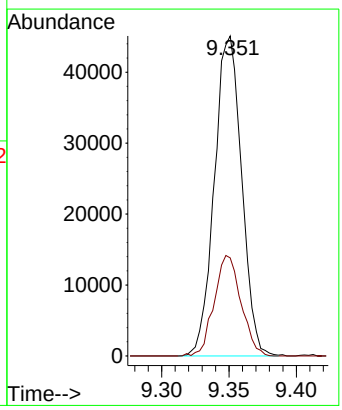
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

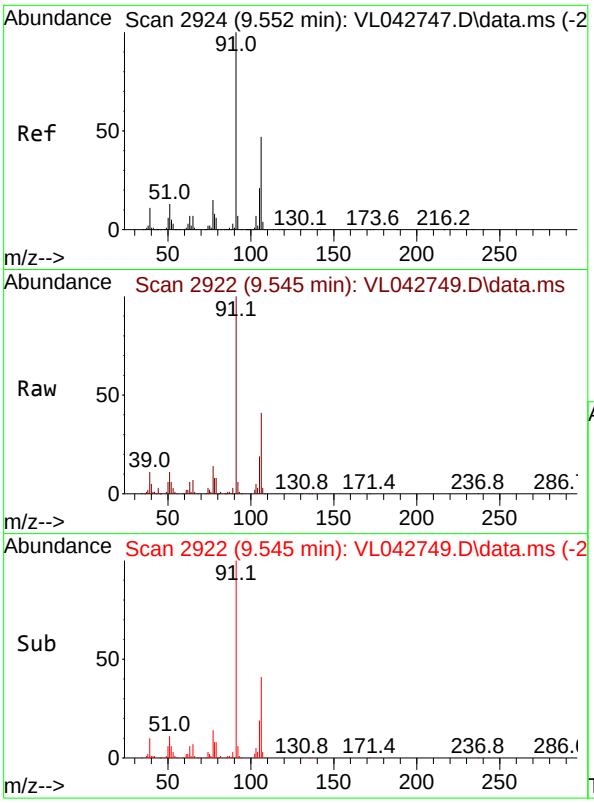


#58
Ethyl Benzene
Concen: 0.980 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 63467

Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.8	35.6

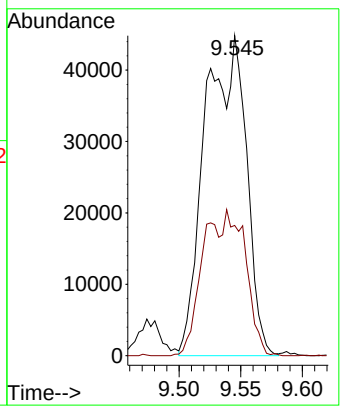




#59
m/p-Xylene
Concen: 2.020 ppbv m
RT: 9.545 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 10454

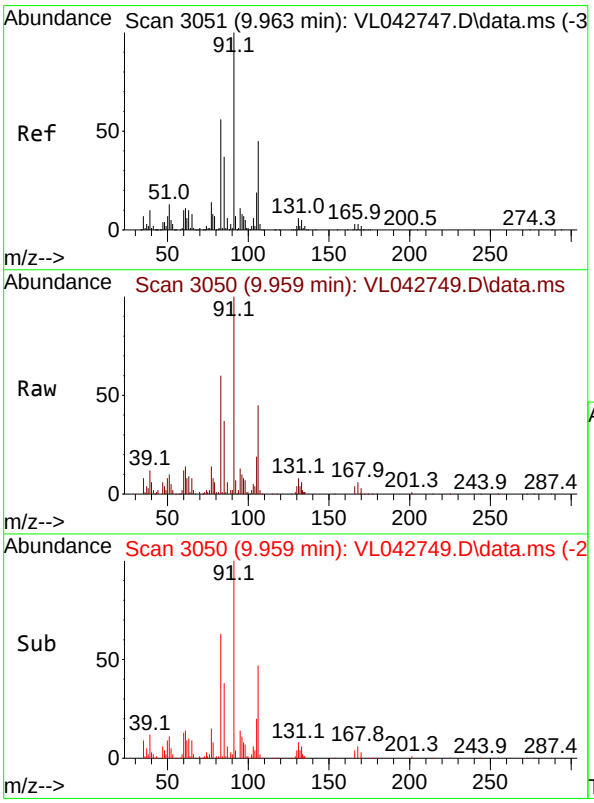
Ion	Ratio	Lower	Upper
91	100		
106	46.9	37.4	56.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

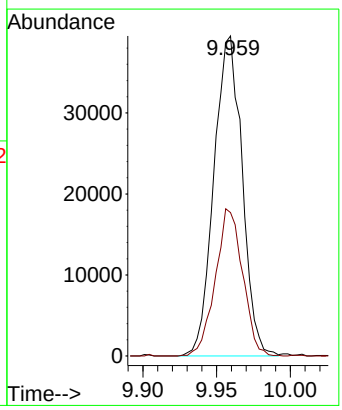
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

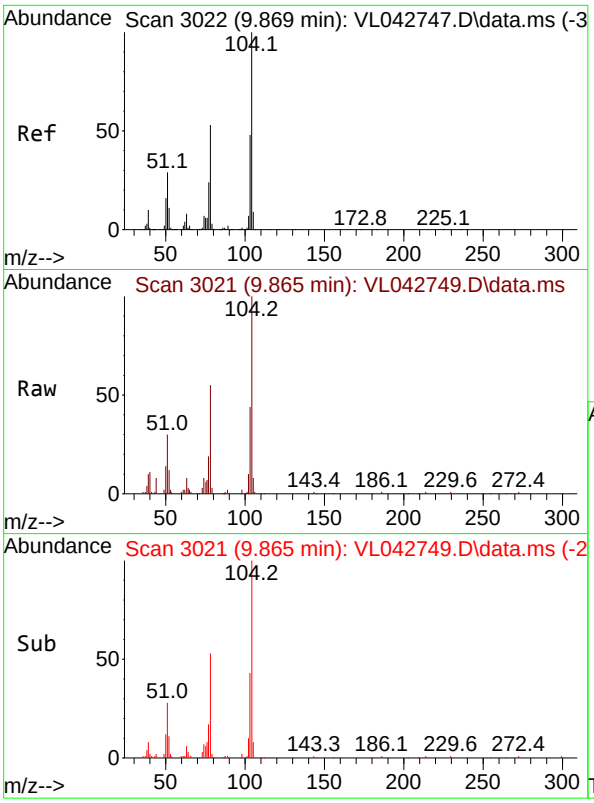


#60
o-Xylene
Concen: 1.015 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 52499

Ion	Ratio	Lower	Upper
91	100		
106	44.6	22.0	66.0

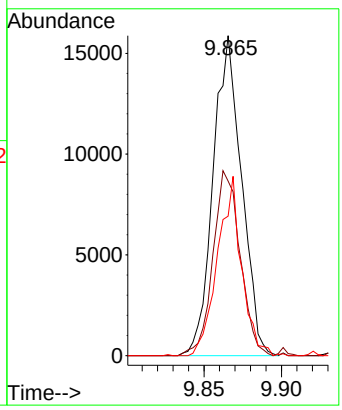




#61
Styrene
Concen: 0.934 ppbv
RT: 9.865 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:104 Resp: 2031

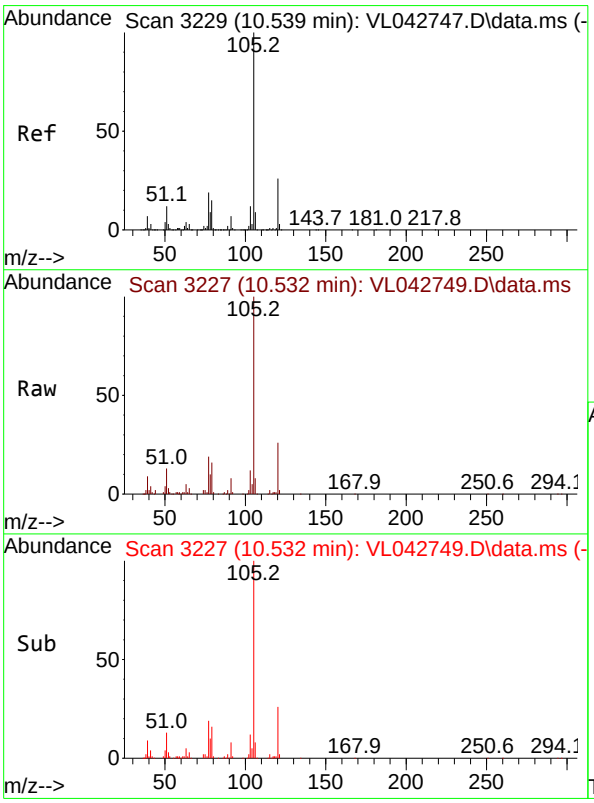
Ion	Ratio	Lower	Upper
104	100		
78	55.7	41.5	62.3
103	47.2	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

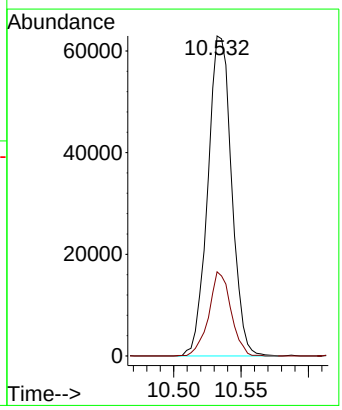
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

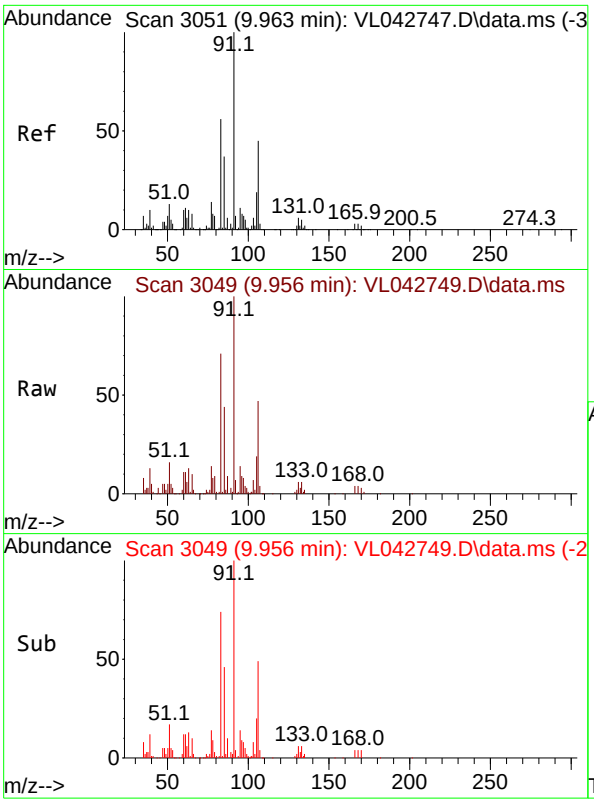


#62
Isopropylbenzene
Concen: 1.013 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 77278

Ion	Ratio	Lower	Upper
105	100		
120	24.6	20.5	30.7

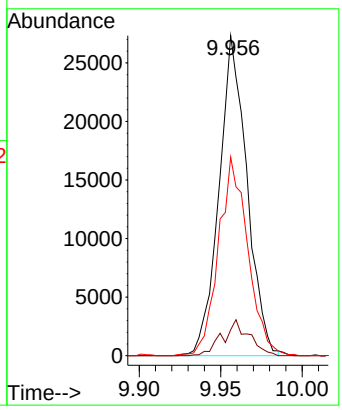




#63
1,1,2,2-Tetrachloroethane
Concen: 0.967 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 83 Resp: 3259

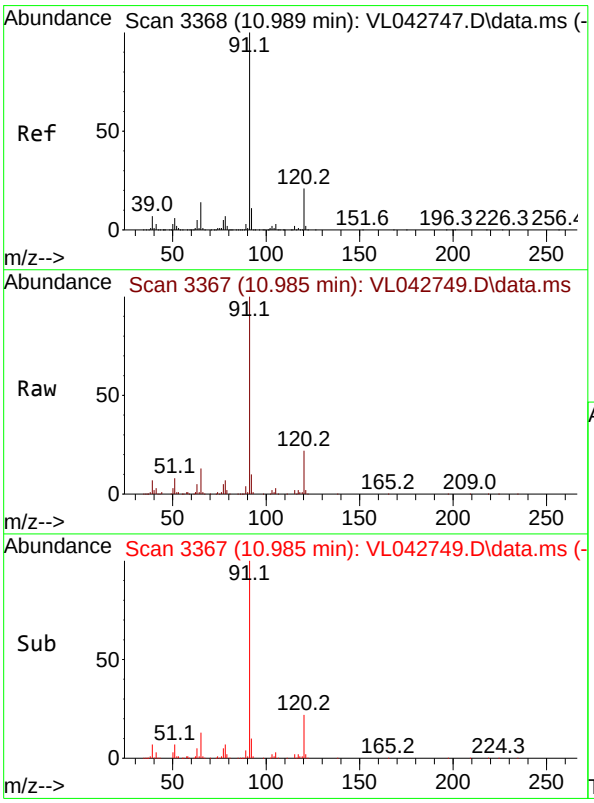
Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.0	15.0
85	65.1	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

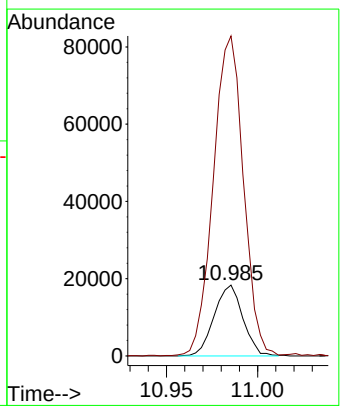
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

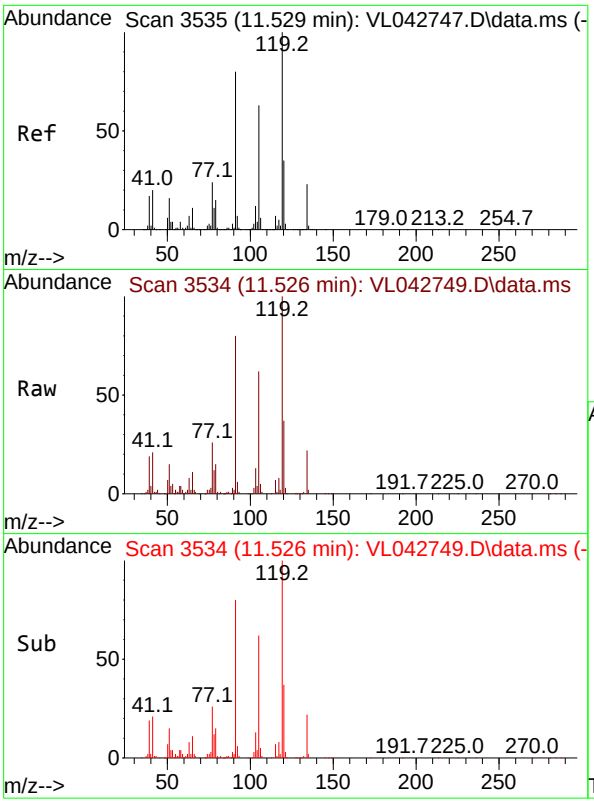


#64
n-propylbenzene
Concen: 1.009 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:120 Resp: 20073

Ion	Ratio	Lower	Upper
120	100		
91	478.1	372.7	559.1

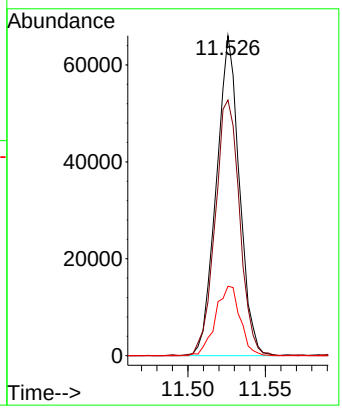




#65
tert-Butylbenzene
Concen: 1.010 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:119 Resp: 6842

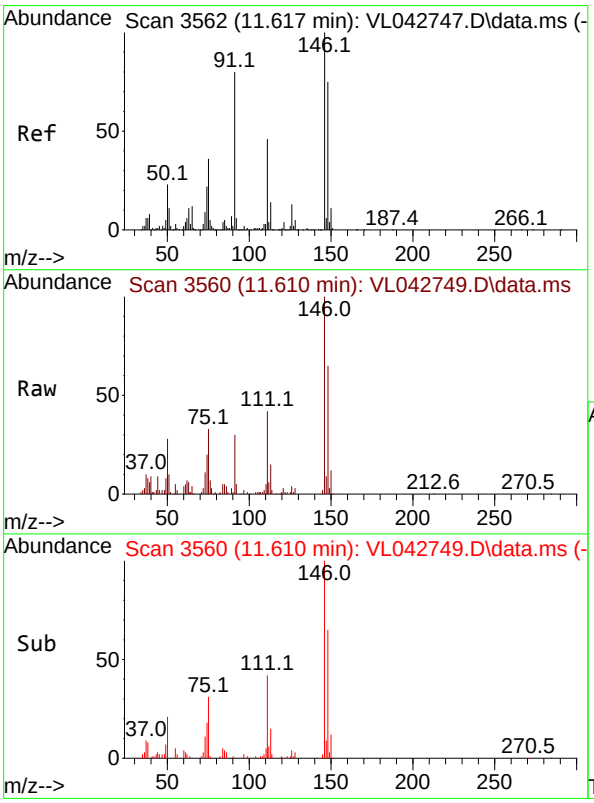
Ion	Ratio	Lower	Upper
119	100		
91	85.1	64.0	96.0
134	23.1	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

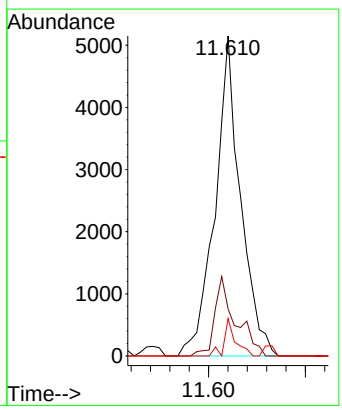
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

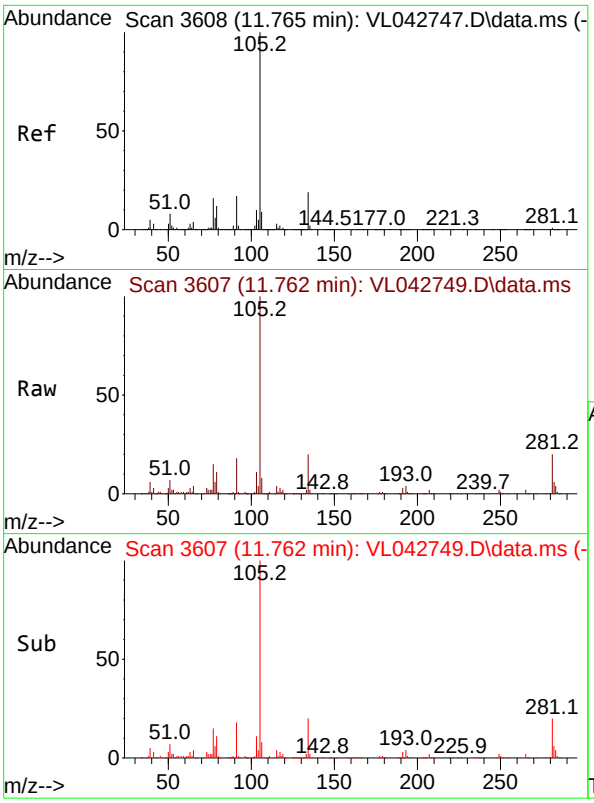


#66
Benzyl Chloride
Concen: 0.845 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 4700

Ion	Ratio	Lower	Upper
91	100		
126	20.3	14.4	21.6
128	6.5	5.2	7.8





#67
sec-Butylbenzene
Concen: 1.053 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

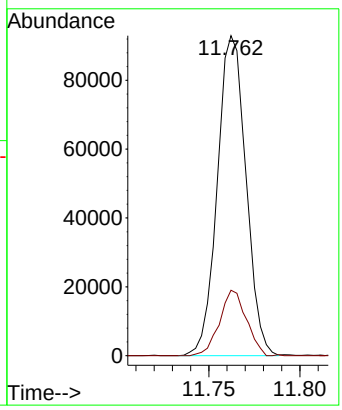
Tgt Ion:105 Resp: 10145

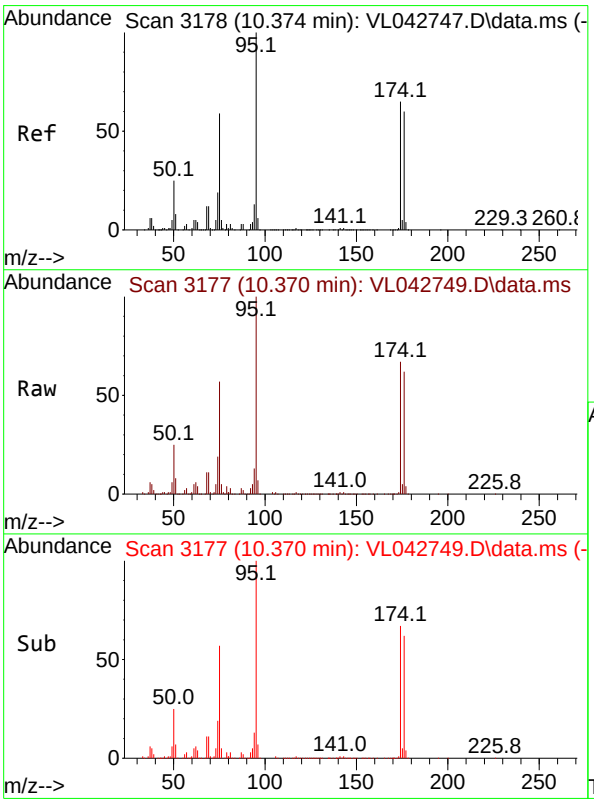
Ion	Ratio	Lower	Upper
105	100		
134	19.1	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

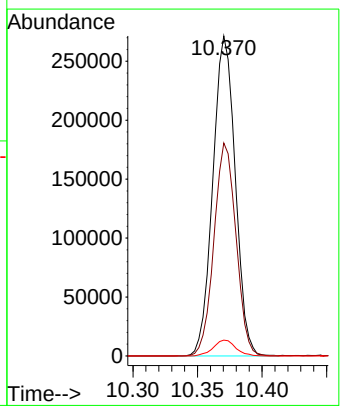


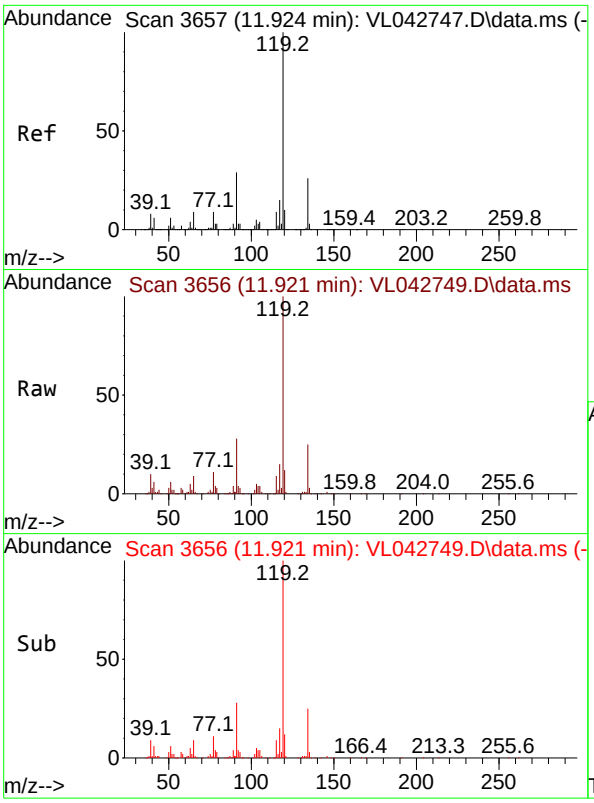


#68
1-Bromo-4-Fluorobenzene
Concen: 10.091 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 95 Resp: 327673

Ion	Ratio	Lower	Upper
95	100		
174	65.4	53.8	80.6
175	5.0	4.0	6.0

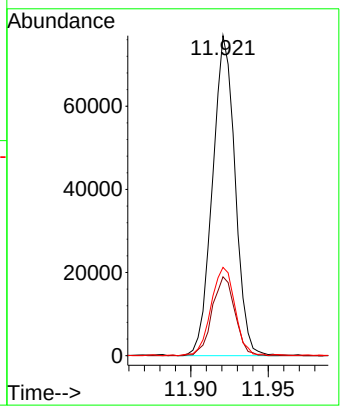




#69
p-Isopropyltoluene
Concen: 0.995 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:119 Resp: 7818

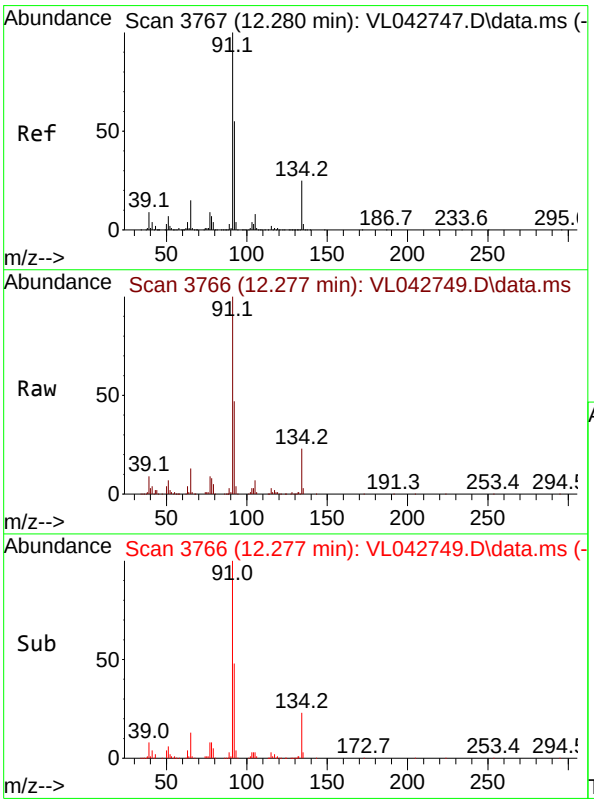
Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.6	31.0
91	29.8	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

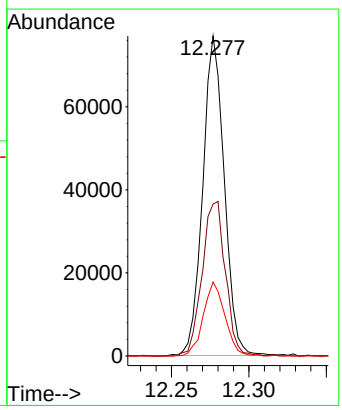
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

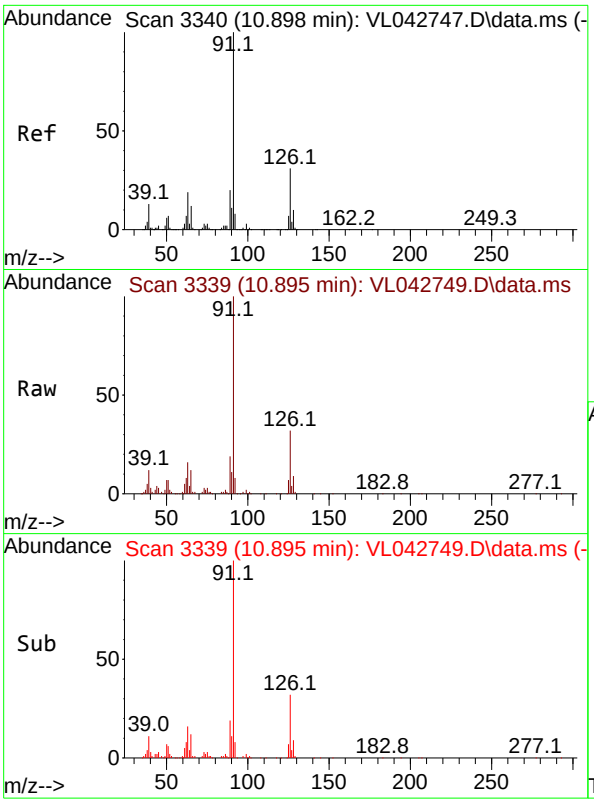


#70
n-Butylbenzene
Concen: 0.978 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 74257

Ion	Ratio	Lower	Upper
91	100		
92	52.4	43.4	65.2
134	23.4	19.6	29.4

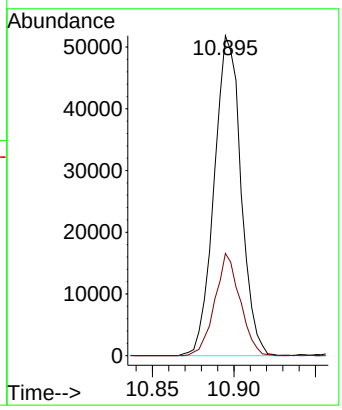




#71
2-Chlorotoluene
Concen: 1.012 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 5919

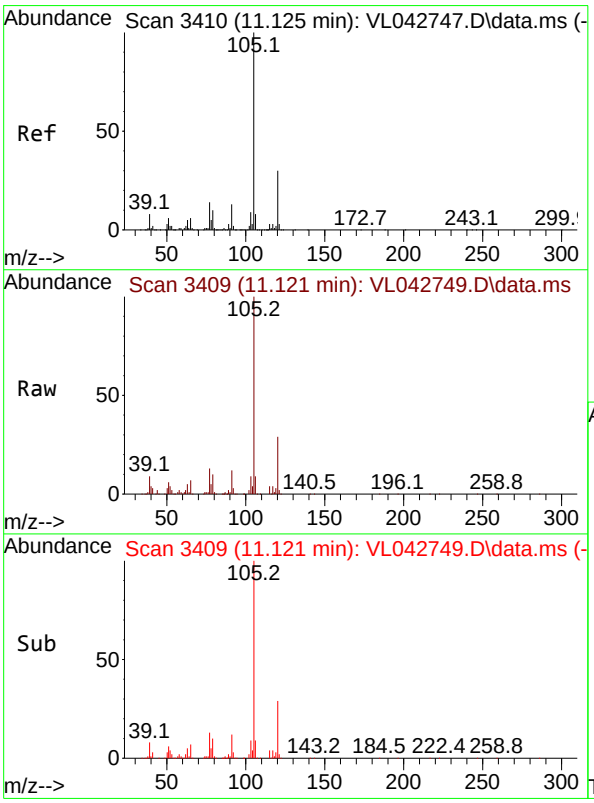
Ion	Ratio	Lower	Upper
91	100		
126	30.1	12.0	48.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

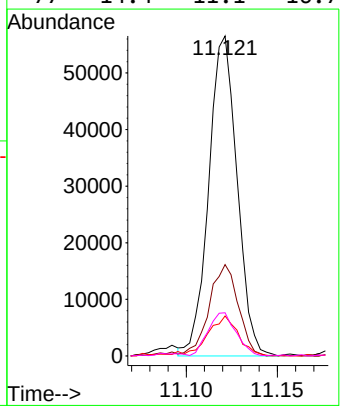
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

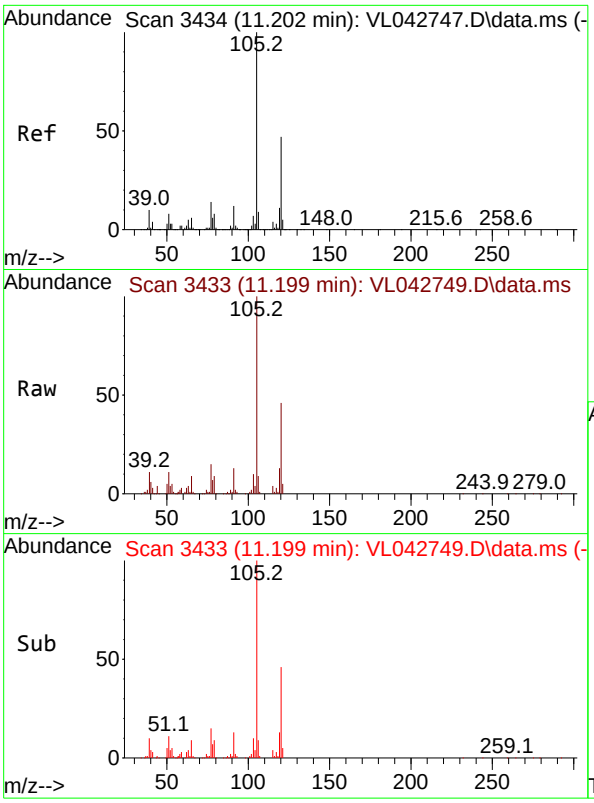


#72
4-Ethyltoluene
Concen: 0.991 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 61199

Ion	Ratio	Lower	Upper
105	100		
120	30.2	24.4	36.6
91	14.2	10.6	15.8
77	14.4	11.1	16.7

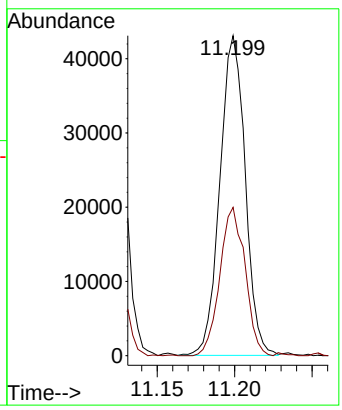




#73
1,3,5-Trimethylbenzene
Concen: 0.962 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 4890

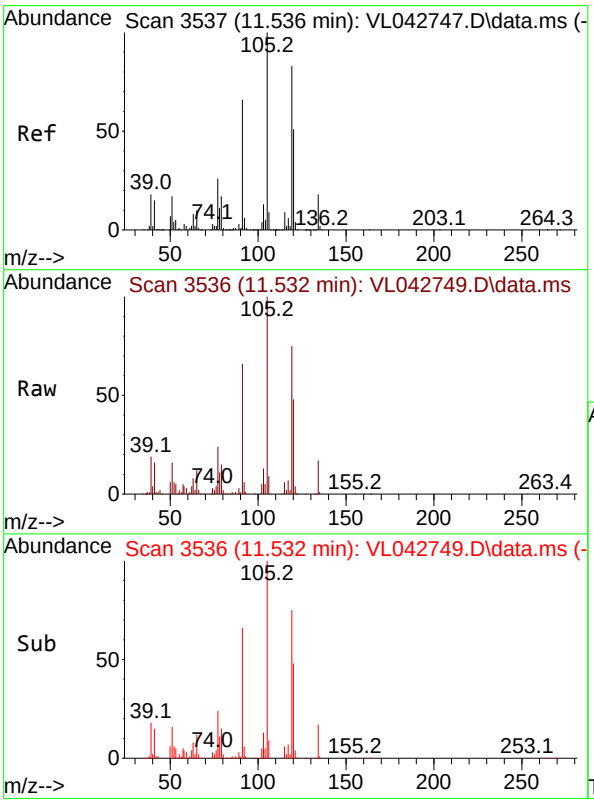
Ion	Ratio	Lower	Upper
105	100		
120	46.4	37.8	56.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

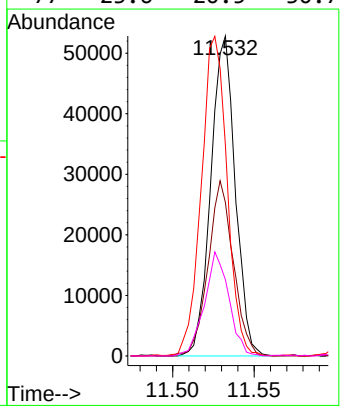
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

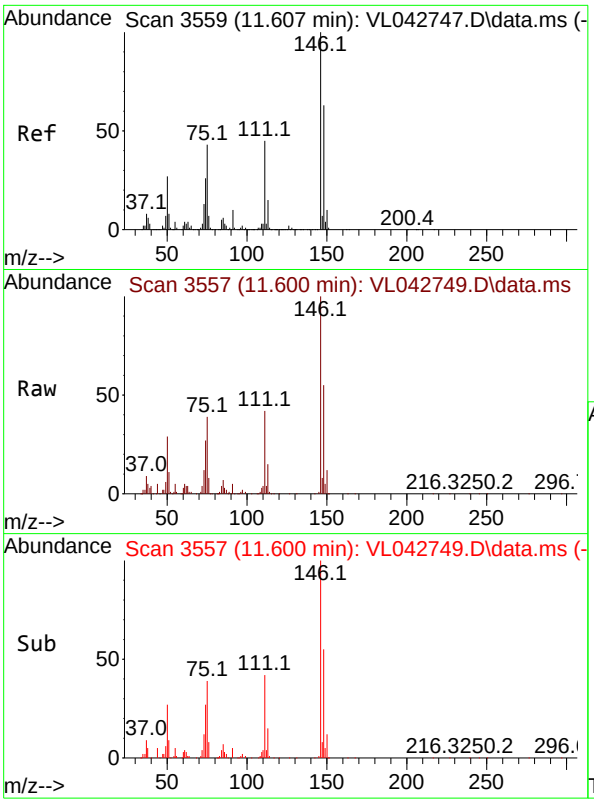


#74
1,2,4-Trimethylbenzene
Concen: 0.994 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 55153

Ion	Ratio	Lower	Upper
105	100		
120	48.0	40.8	61.2
91	65.8	53.0	79.4
77	23.6	20.5	30.7

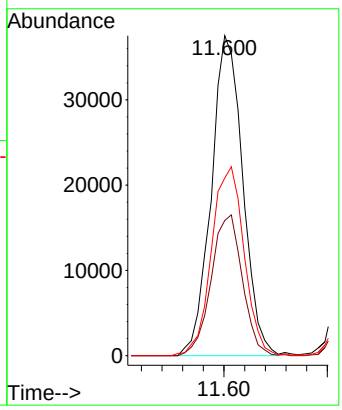




#75
1,3-Dichlorobenzene
Concen: 1.022 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:146 Resp: 3975

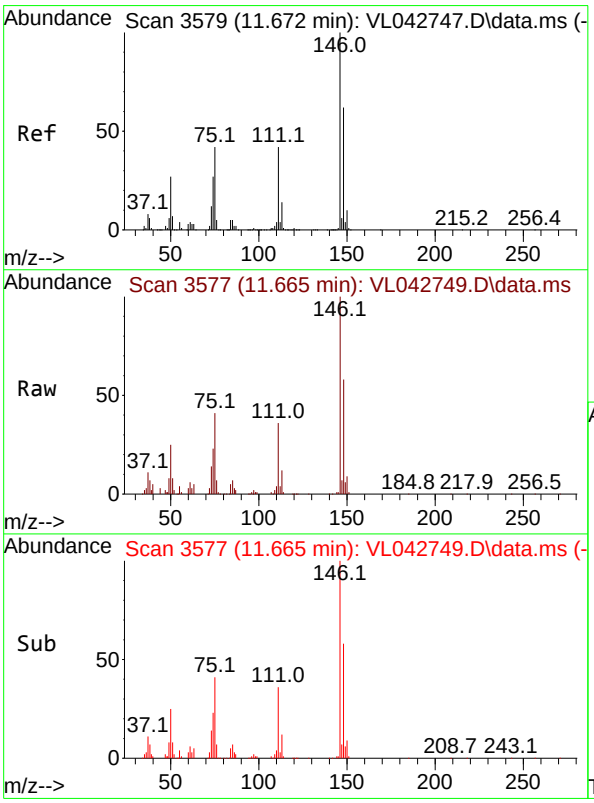
Ion	Ratio	Lower	Upper
146	100		
111	43.6	22.7	68.0
148	61.0	31.9	95.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

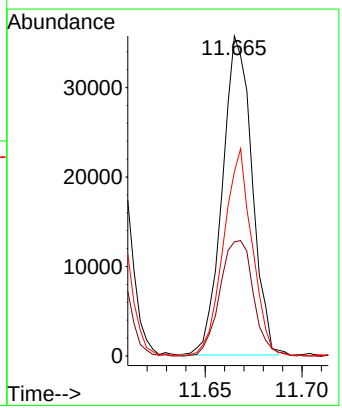
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

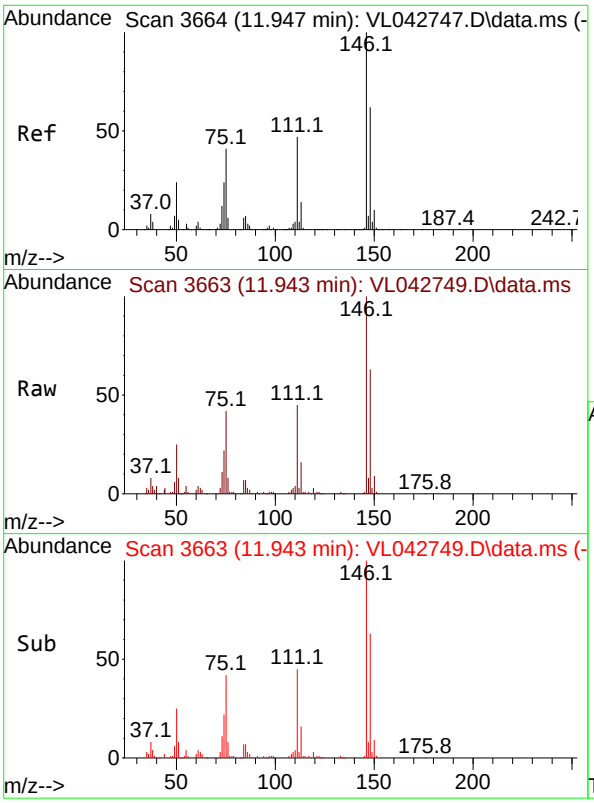


#76
1,4-Dichlorobenzene
Concen: 0.999 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:146 Resp: 38018

Ion	Ratio	Lower	Upper
146	100		
111	40.8	21.4	64.2
148	63.1	32.1	96.3

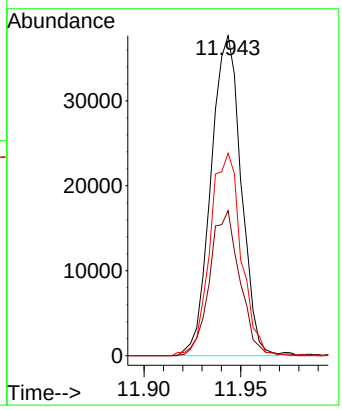




#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:146 Resp: 4083

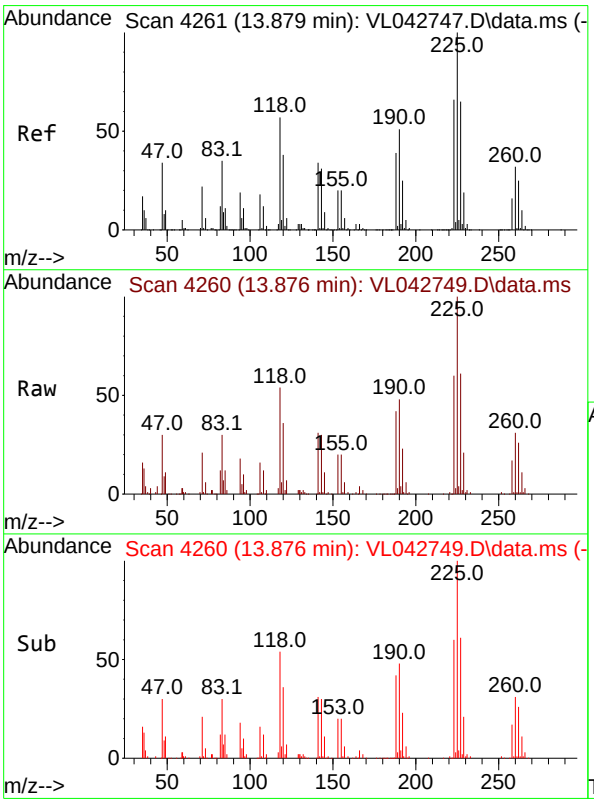
Ion	Ratio	Lower	Upper
146	100		
111	45.3	23.7	71.1
148	65.5	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

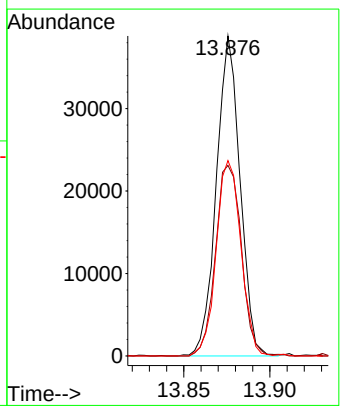
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

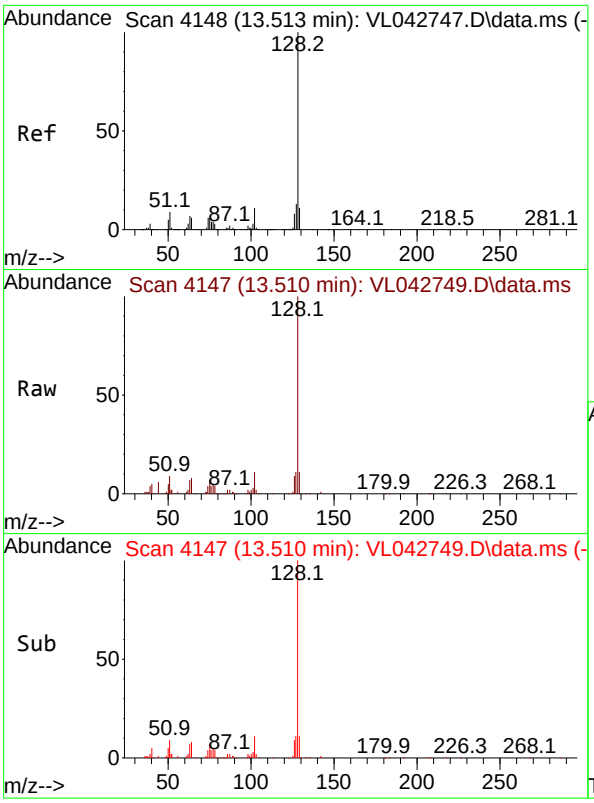


#78
Hexachloro-1,3-Butadiene
Concen: 1.076 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:225 Resp: 37228

Ion	Ratio	Lower	Upper
225	100		
223	65.2	50.7	76.1
227	63.9	50.5	75.7

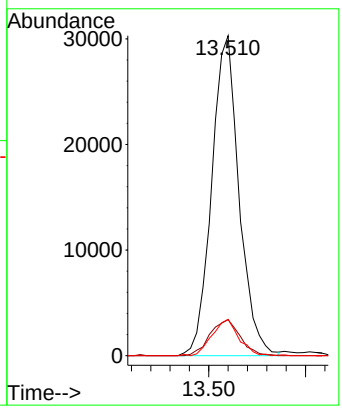




#79
Naphthalene
Concen: 0.907 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:128 Resp: 2979

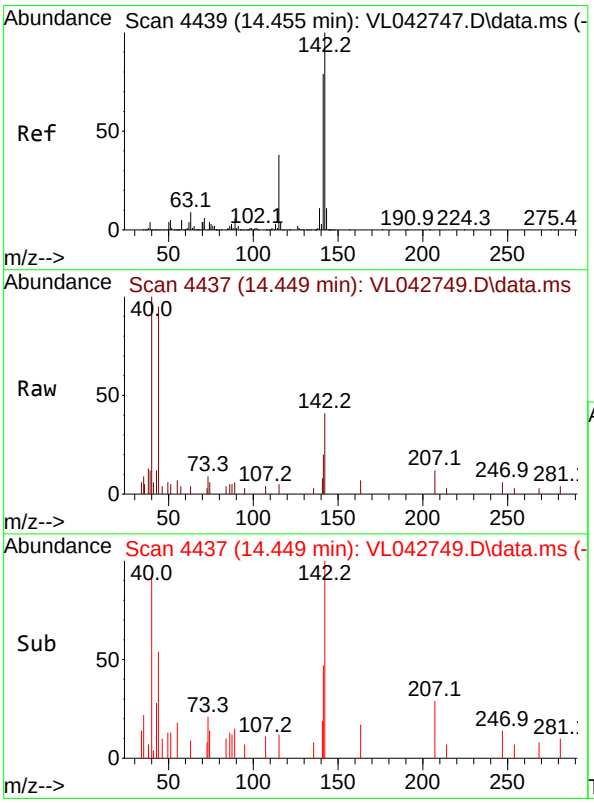
Ion	Ratio	Lower	Upper
128	100		
127	11.3	10.5	15.7
129	11.4	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

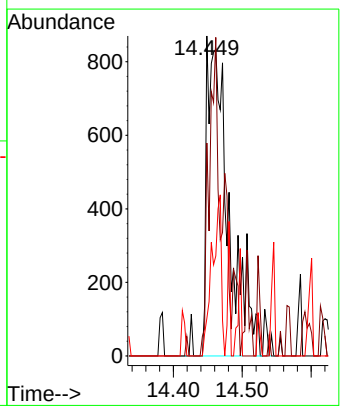
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

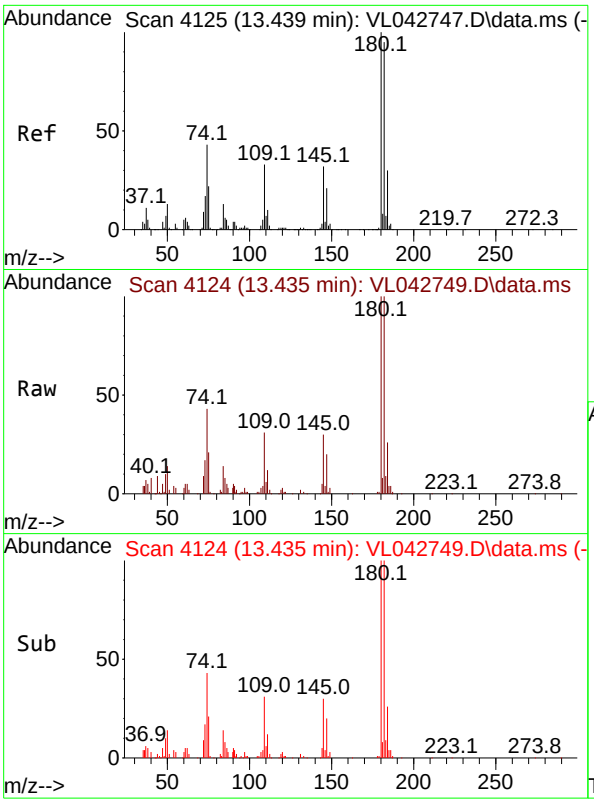


#80
Naphthalene,2-methyl-
Concen: 1.184 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:142 Resp: 1950

Ion	Ratio	Lower	Upper
142	100		
141	63.5	65.8	98.8#
115	25.1	31.2	46.8#

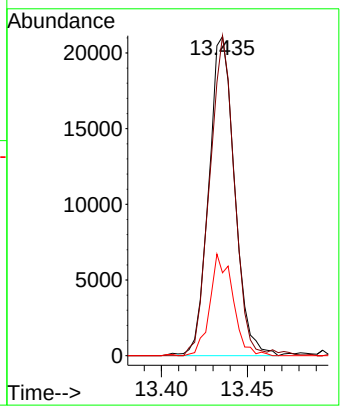




#81
1,2,4-Trichlorobenzene
Concen: 1.053 ppbv
RT: 13.435 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:180 Resp: 2192

Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.2	114.2
184	28.7	24.8	37.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042750.D
Acq On : 23 Jul 2025 10:42
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 04:58:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	151256	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	446836	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.879	117	408626	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	319353	9.869	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	11099	0.555	ppbv		98
3) Chlorodifluoromethane	1.476	51	14291	0.549	ppbv		97
4) Chloromethane	1.531	50	4428	0.547	ppbv		96
5) Vinyl Chloride	1.580	62	3902	0.488	ppbv		97
6) Bromomethane	1.667	94	1717	0.556	ppbv	#	38
7) Chloroethane	1.703	64	2102	0.681	ppbv		97
8) Dichlorotetrafluoroethane	1.554	85	8971	0.545	ppbv		97
9) Propene	1.483	41	4695	0.496	ppbv	#	77
10) Heptane	4.978	43	13003m	0.511	ppbv		
11) Trichlorofluoromethane	1.878	101	11021	0.535	ppbv		90
12) 1,1,2-Trichlorotrifluo...	2.137	101	8430	0.538	ppbv		98
13) Ethanol	1.719	45	1066m	0.498	ppbv		
14) Bromoethene	1.781	108	2971	0.536	ppbv	#	92
15) Acetone	1.836	43	14012	0.671	ppbv	#	88
16) 1,3-Butadiene	1.609	39	5488	0.616	ppbv		100
17) tert-Butyl alcohol	2.040	59	10333	0.549	ppbv	#	77
18) 1,1-Dichloroethene	2.033	96	4051	0.572	ppbv		77
19) Isopropyl Alcohol	1.888	45	6478	0.584	ppbv	#	81
20) Methylene Chloride	2.059	84	4500	0.684	ppbv		82
21) Allyl Chloride	2.098	41	6829	0.531	ppbv	#	80
22) trans-1,2-Dichloroethene	2.341	96	4186	0.551	ppbv		88
23) Vinyl Acetate	2.460	43	12423	0.491	ppbv	#	76
24) 1,1-Dichloroethane	2.405	63	7962	0.509	ppbv	#	91
25) Ethyl Acetate	2.836	43	23632	0.511	ppbv		97
26) Hexane	2.823	57	10019	0.494	ppbv		90
27) Carbon Disulfide	2.150	76	8670	0.499	ppbv	#	1
28) Methyl tert-Butyl Ether	2.441	73	4937	0.515	ppbv	#	79
29) Chloroform	2.849	83	17100	0.546	ppbv	#	82
30) Cyclohexane	3.855	84	8596	0.500	ppbv		89
31) cis-1,2-Dichloroethene	2.723	61	11032	0.529	ppbv		99
32) 1,1,1-Trichloroethane	3.367	97	16132	0.494	ppbv		97
34) 2-Butanone	2.557	43	16299	0.515	ppbv		94
35) Carbon Tetrachloride	3.761	117	15207	0.458	ppbv		90
36) Benzene	3.651	78	21800	0.515	ppbv		96
37) 1,2-Dichloroethane	3.215	62	13299	0.521	ppbv	#	95
38) Trichloroethene	4.548	130	10097m	0.494	ppbv		
39) 1,2-Dichloropropane	4.312	63	8291	0.530	ppbv	#	90
40) 1,4-Dioxane	4.606	88	3963m	0.538	ppbv		
41) Tetrahydrofuran	3.056	42	8064m	0.507	ppbv		
42) Bromodichloromethane	4.487	83	16080m	0.484	ppbv		
43) Methyl Methacrylate	4.881	69	7162m	0.476	ppbv		
44) 2,2,4-Trimethylpentane	4.639	57	33853	0.490	ppbv		93
45) t-1,3-Dichloropropene	6.412	75	7968m	0.472	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042750.D
Acq On : 23 Jul 2025 10:42
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 04:58:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	9709m	0.454	ppbv		
47) 1,1,2-Trichloroethane	6.574	97	8782m	0.527	ppbv		
48) Dibromochloromethane	7.383	129	12723m	0.481	ppbv		
49) Bromoform	9.481	173	10801	0.468	ppbv		97
50) 4-Methyl-2-Pentanone	5.768	43	19575m	0.486	ppbv		
51) 2-Hexanone	7.448	43	12813m	0.416	ppbv		
52) Tetrachloroethene	8.218	164	8359	0.475	ppbv	#	81
53) Toluene	6.924	91	21324	0.469	ppbv		95
54) 1,2-Dibromoethane	7.649	107	12294m	0.521	ppbv		
56) 1,1,1,2-Tetrachloroethane	8.924	131	11191	0.527	ppbv	#	1
57) Chlorobenzene	8.921	112	20828	0.527	ppbv	#	84
58) Ethyl Benzene	9.354	91	29134	0.451	ppbv		96
59) m/p-Xylene	9.549	91	47028m	0.912	ppbv		
60) o-Xylene	9.963	91	23603	0.458	ppbv		100
61) Styrene	9.872	104	9195	0.424	ppbv		97
62) Isopropylbenzene	10.539	105	35189	0.463	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.956	83	15544	0.463	ppbv		99
64) n-propylbenzene	10.989	120	8924	0.450	ppbv		99
65) tert-Butylbenzene	11.529	119	30560	0.453	ppbv		95
66) Benzyl Chloride	11.617	91	2336m	0.421	ppbv		
67) sec-Butylbenzene	11.766	105	44169	0.460	ppbv		100
69) p-Isopropyltoluene	11.924	119	33104	0.423	ppbv		99
70) n-Butylbenzene	12.280	91	29048	0.384	ppbv		99
71) 2-Chlorotoluene	10.902	91	27184	0.466	ppbv		97
72) 4-Ethyltoluene	11.125	105	26395	0.429	ppbv	#	95
73) 1,3,5-Trimethylbenzene	11.206	105	22392	0.442	ppbv	#	85
74) 1,2,4-Trimethylbenzene	11.536	105	22772	0.412	ppbv		96
75) 1,3-Dichlorobenzene	11.607	146	18680	0.482	ppbv		96
76) 1,4-Dichlorobenzene	11.669	146	17616	0.465	ppbv		97
77) 1,2-Dichlorobenzene	11.947	146	18799	0.494	ppbv		98
78) Hexachloro-1,3-Butadiene	13.879	225	18330	0.532	ppbv		99
79) Naphthalene	13.514	128	9916	0.592	ppbv		97
80) Naphthalene,2-methyl-	14.481	142	731	1.148	ppbv	#	61
81) 1,2,4-Trichlorobenzene	13.436	180	7453	0.645	ppbv		95

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

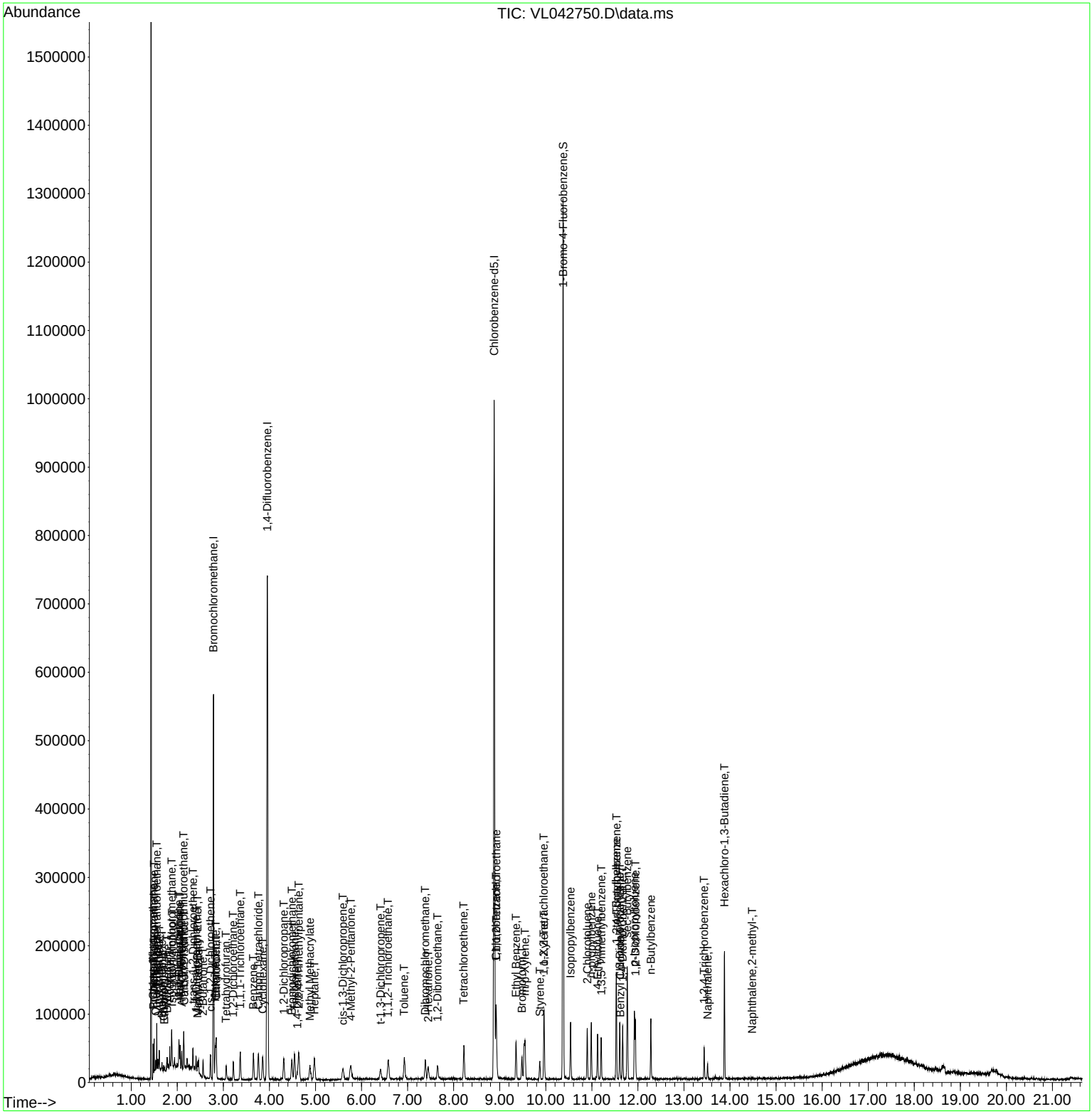
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042750.D
Acq On : 23 Jul 2025 10:42
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

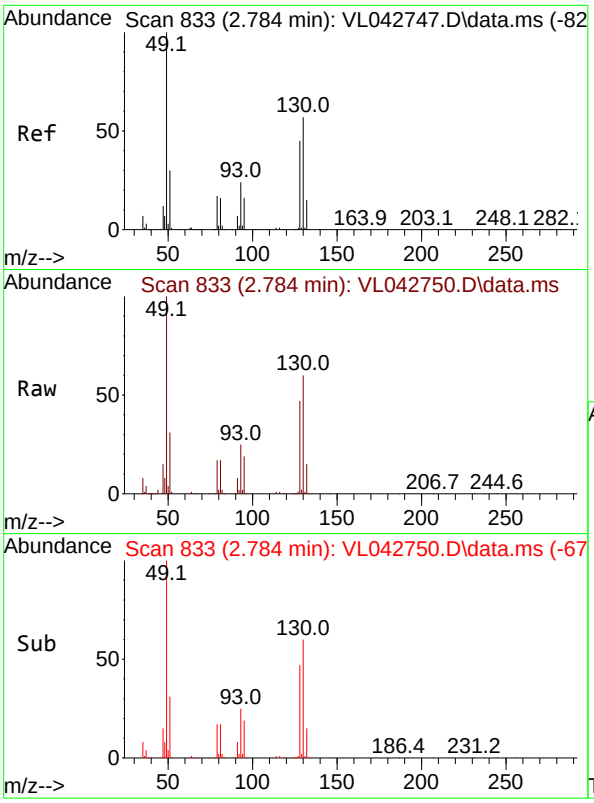
Quant Time: Jul 24 04:58:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

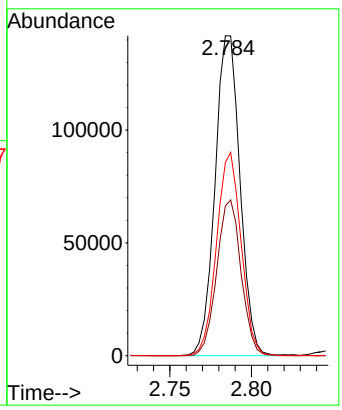




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 49 Resp: 15125

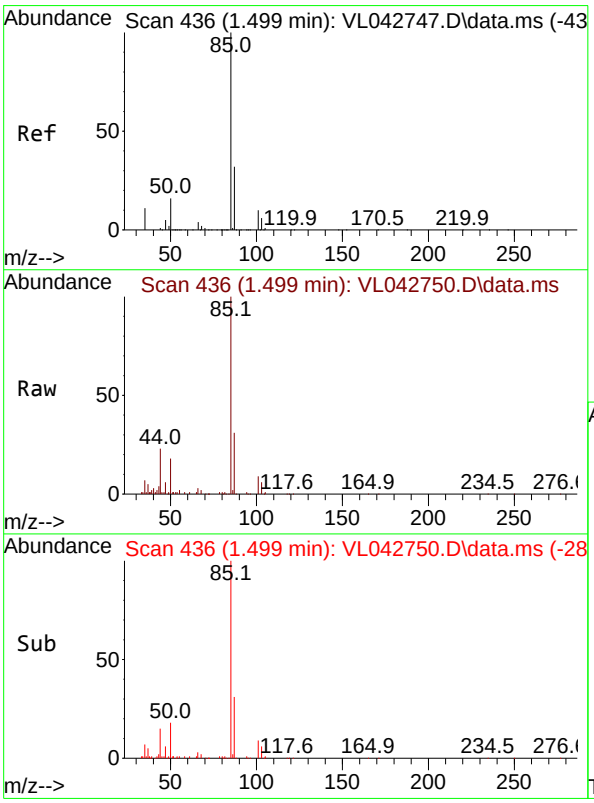
Ion	Ratio	Lower	Upper
49	100		
128	47.4	23.6	71.0
130	62.2	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

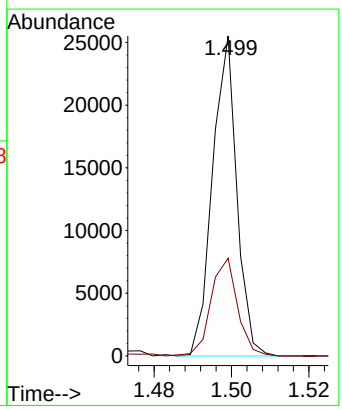
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

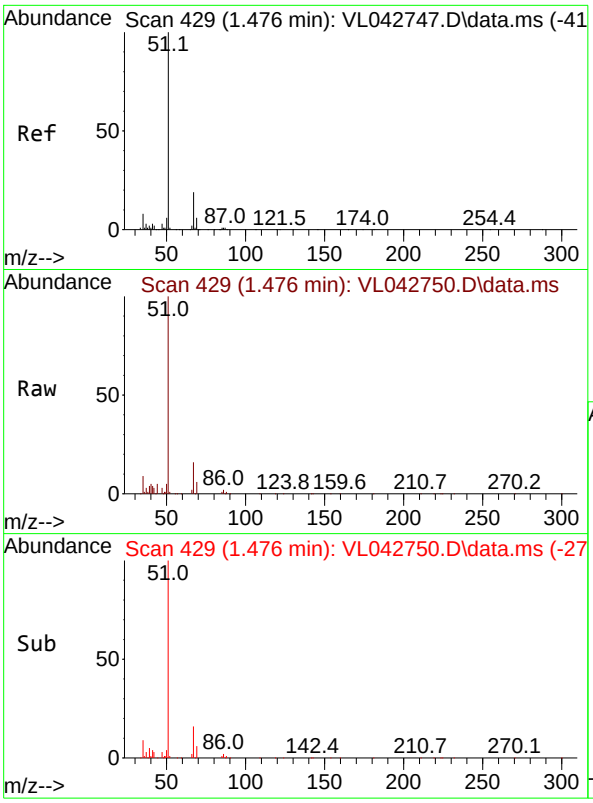


#2
Dichlorodifluoromethane
Concen: 0.555 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 85 Resp: 11099

Ion	Ratio	Lower	Upper
85	100		
87	30.6	25.4	38.2

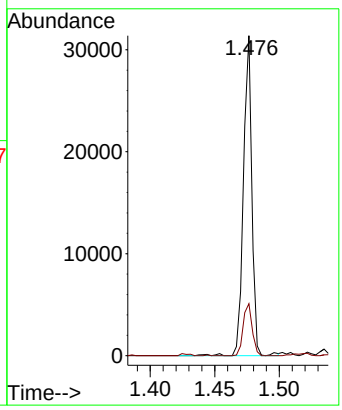




#3
Chlorodifluoromethane
Concen: 0.549 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 51 Resp: 1429

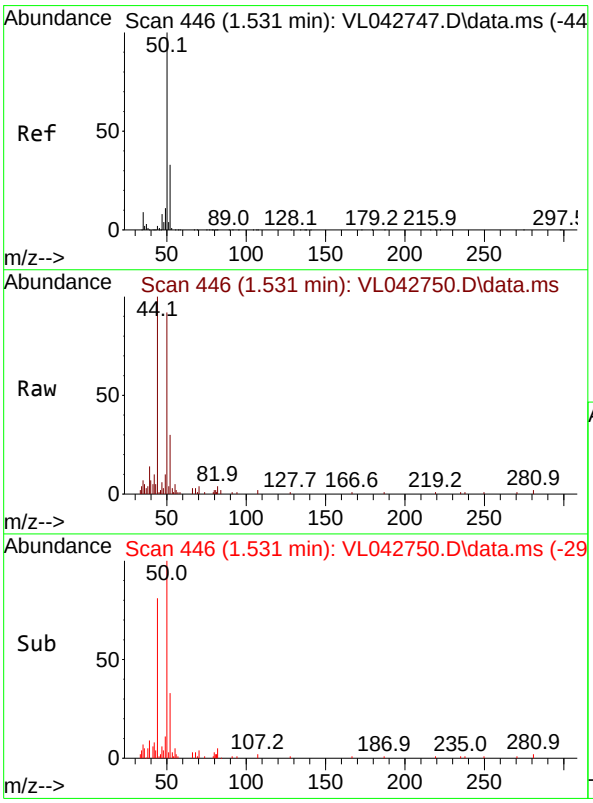
Ion	Ratio	Lower	Upper
51	100		
67	17.4	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

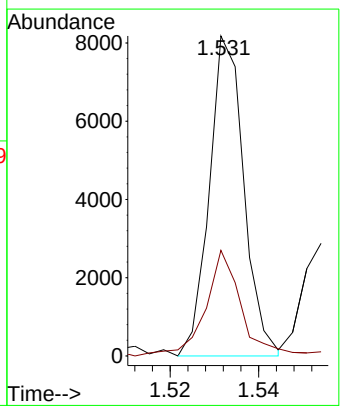
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

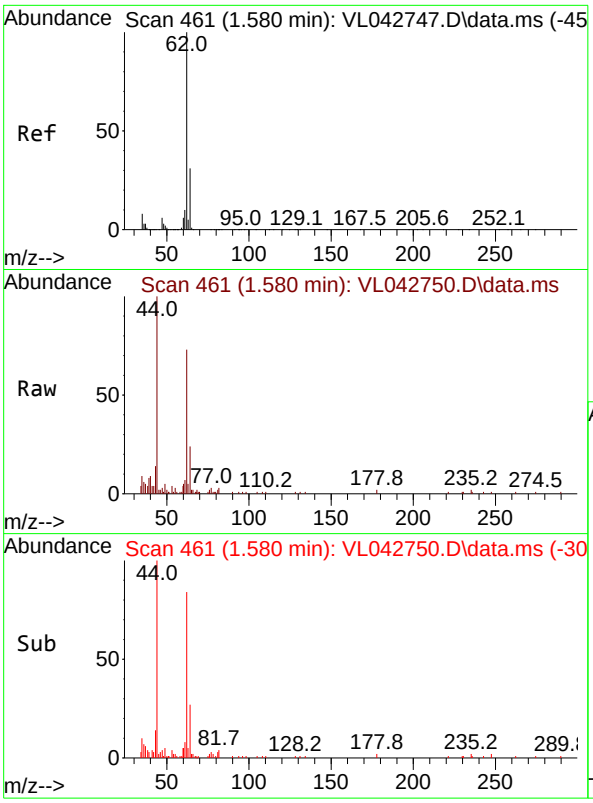


#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 50 Resp: 4428

Ion	Ratio	Lower	Upper
50	100		
52	30.8	26.6	40.0

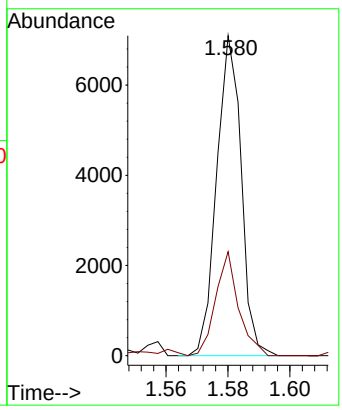




#5
Vinyl Chloride
Concen: 0.488 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 62 Resp: 390

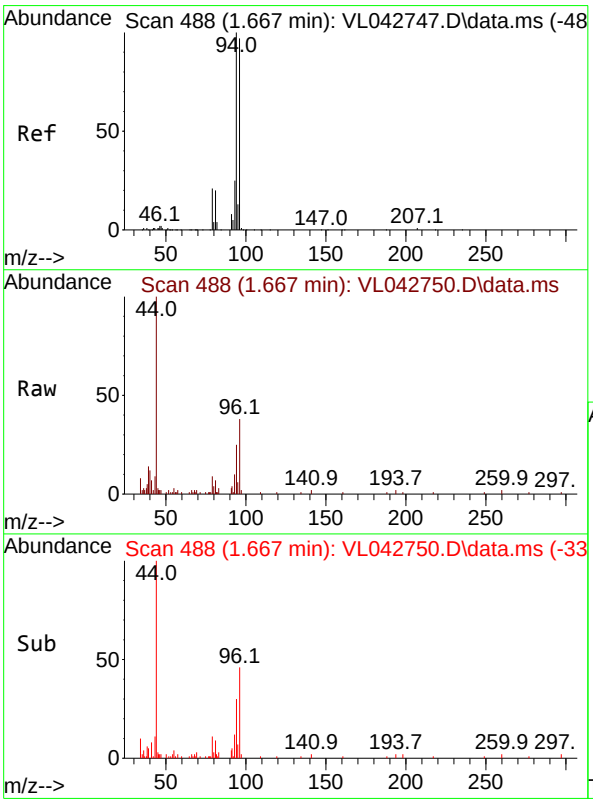
Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.5	36.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

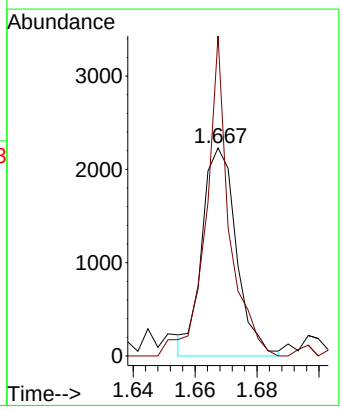
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

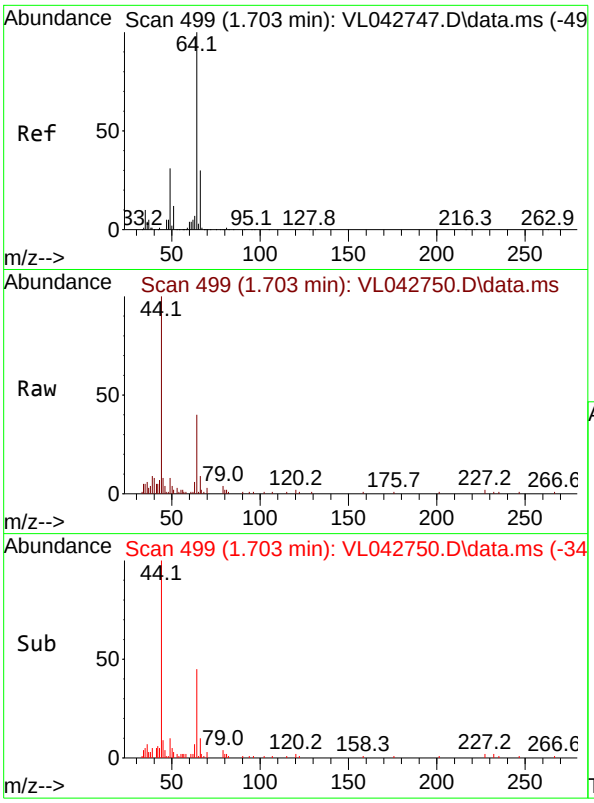


#6
Bromomethane
Concen: 0.556 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 94 Resp: 1717

Ion	Ratio	Lower	Upper
94	100		
96	157.5	77.6	116.4#

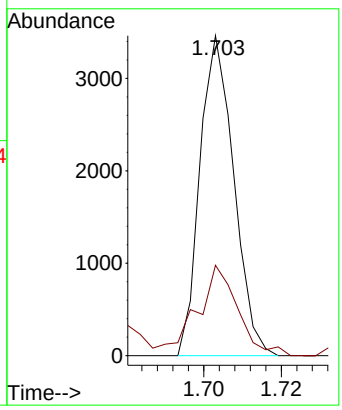




#7
Chloroethane
Concen: 0.681 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 64 Resp: 210

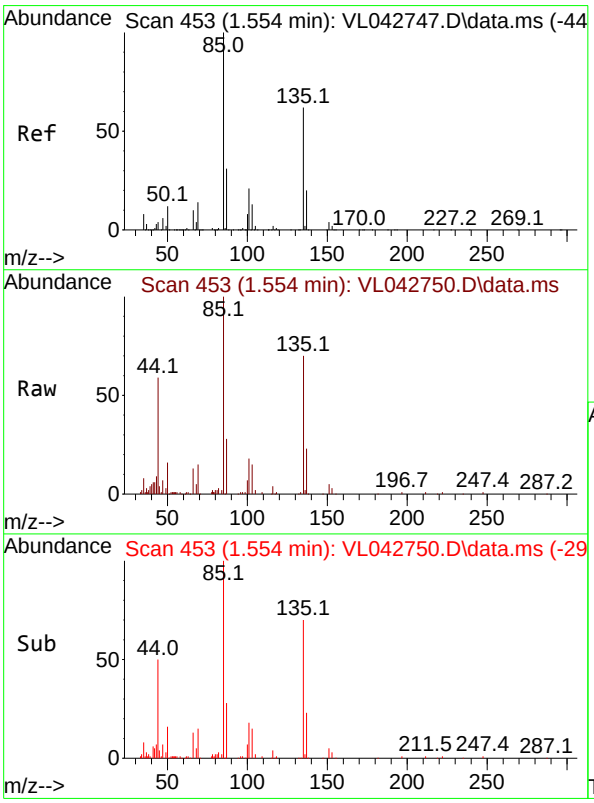
Ion	Ratio	Lower	Upper
64	100		
66	28.3	24.1	36.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

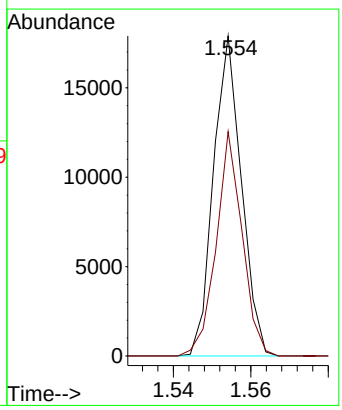
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

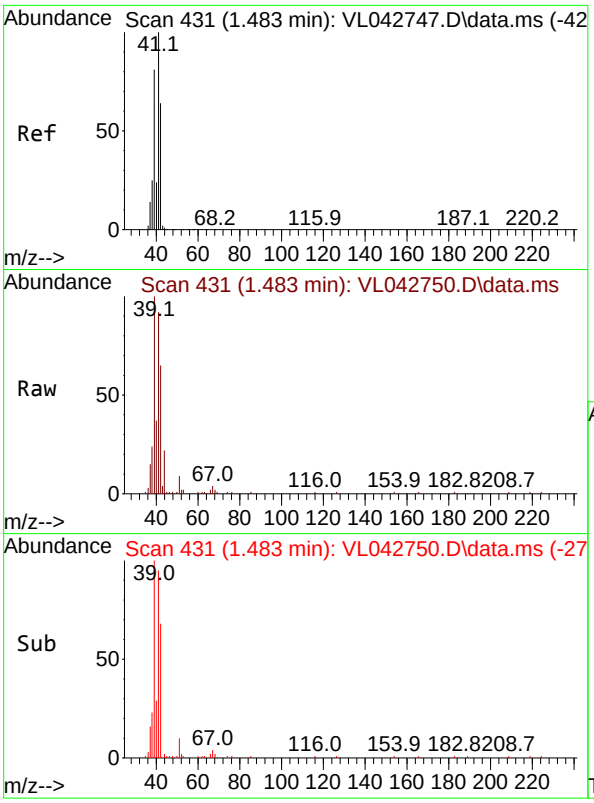


#8
Dichlorotetrafluoroethane
Concen: 0.545 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 85 Resp: 8971

Ion	Ratio	Lower	Upper
85	100		
135	65.3	50.6	76.0

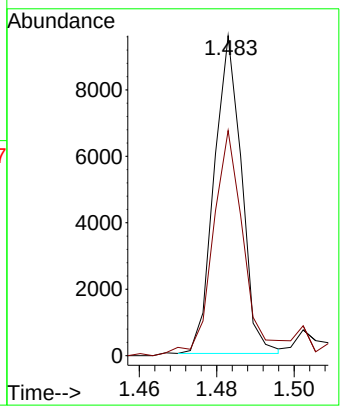




#9
Propene
Concen: 0.496 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 41 Resp: 469

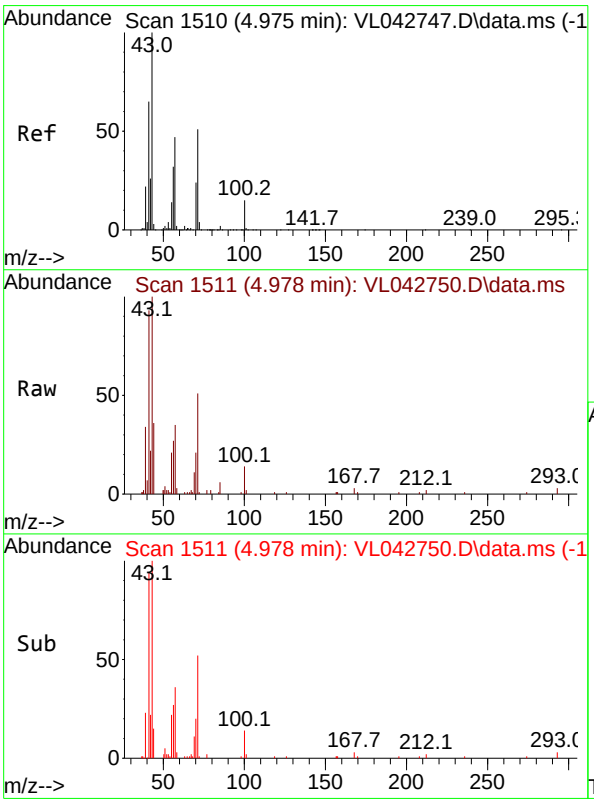
Ion	Ratio	Lower	Upper
41	100		
42	84.9	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

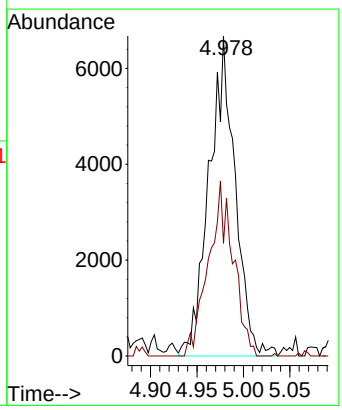
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

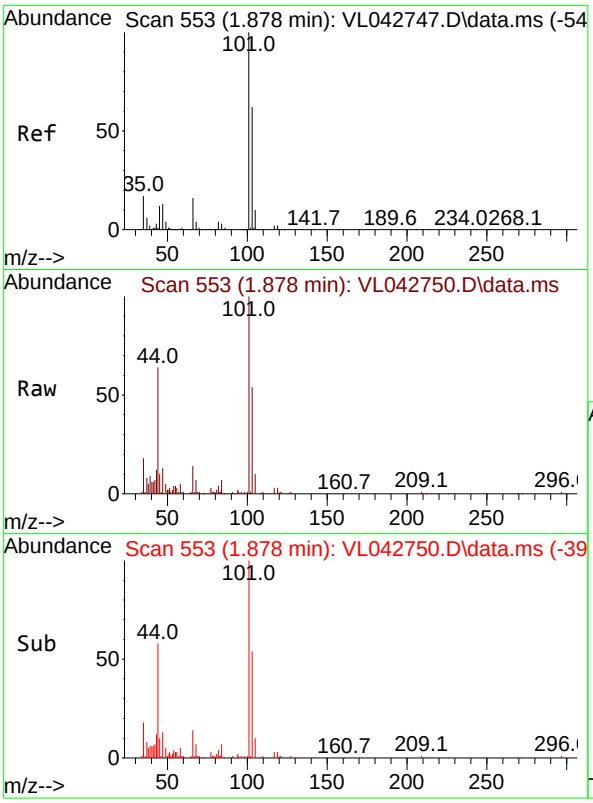


#10
Heptane
Concen: 0.511 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 43 Resp: 13003

Ion	Ratio	Lower	Upper
43	100		
57	51.9	39.9	59.9

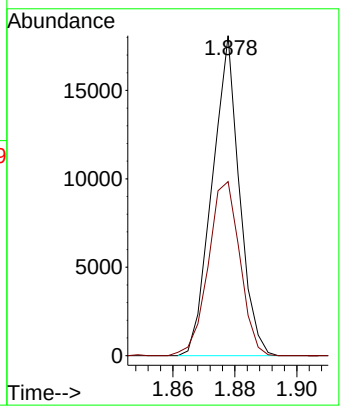




#11
Trichlorofluoromethane
Concen: 0.535 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:101 Resp: 1102

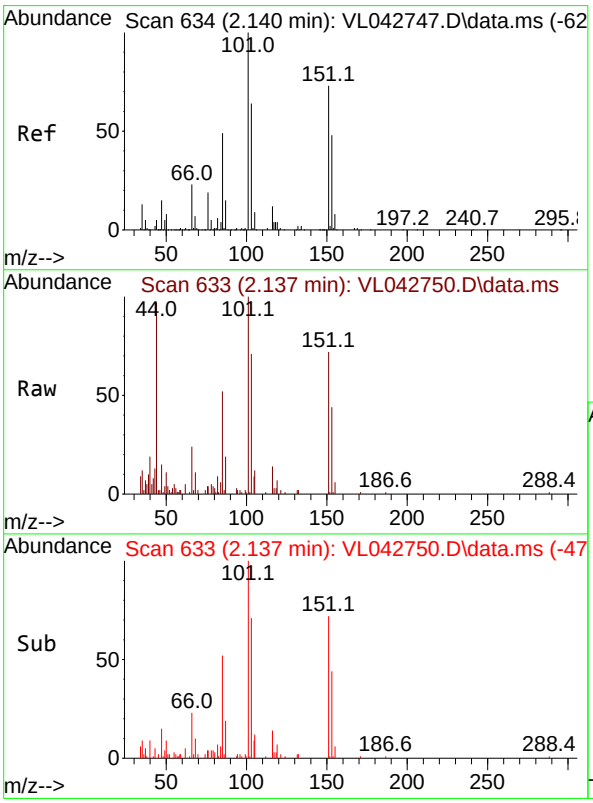
Ion	Ratio	Lower	Upper
101	100		
103	54.4	49.6	74.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

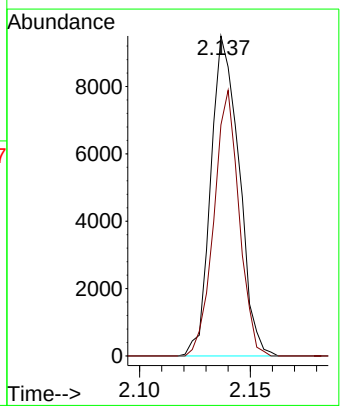
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

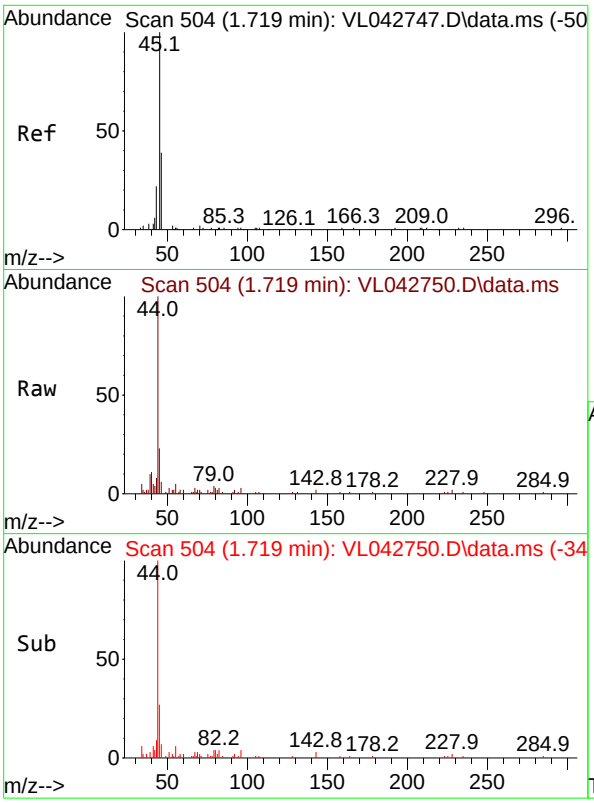


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.538 ppbv
RT: 2.137 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:101 Resp: 8430

Ion	Ratio	Lower	Upper
101	100		
151	74.0	60.5	90.7

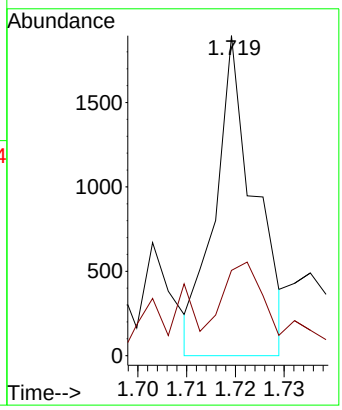




#13
Ethanol
Concen: 0.498 ppbv m
RT: 1.719 min Scan# 5(
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 45 Resp: 106(

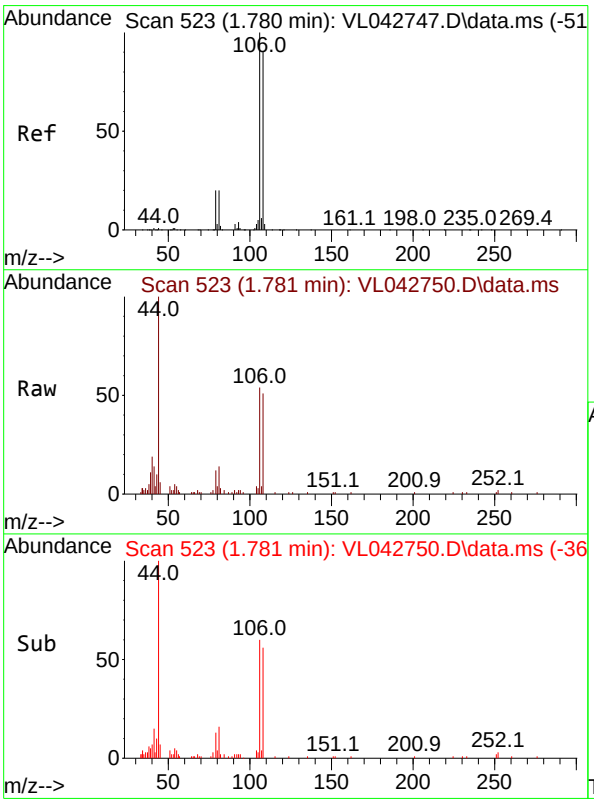
Ion	Ratio	Lower	Upper
45	100		
46	81.1	17.8	71.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

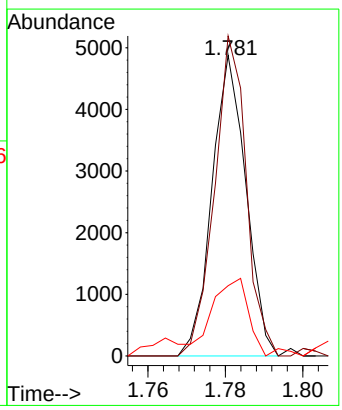
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

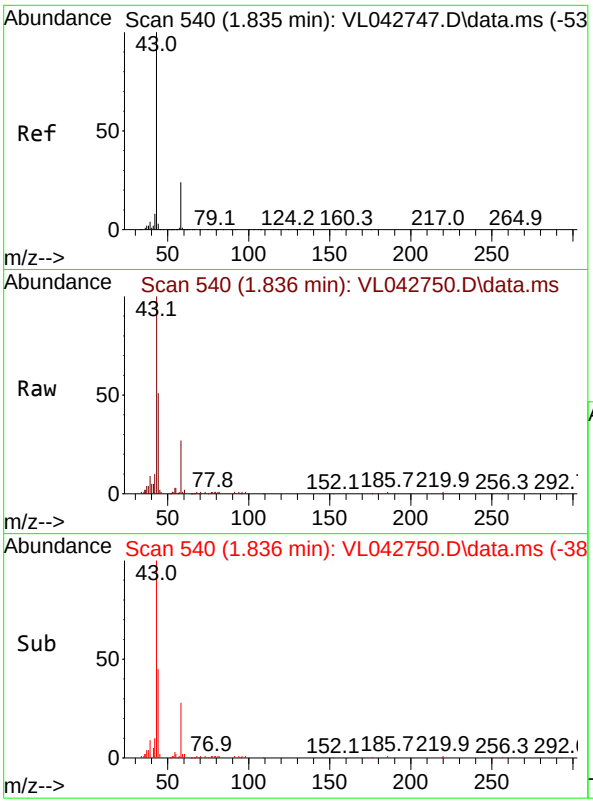


#14
Bromoethene
Concen: 0.536 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:108 Resp: 2971

Ion	Ratio	Lower	Upper
108	100		
106	102.0	84.7	127.1
79	35.4	17.4	26.2#

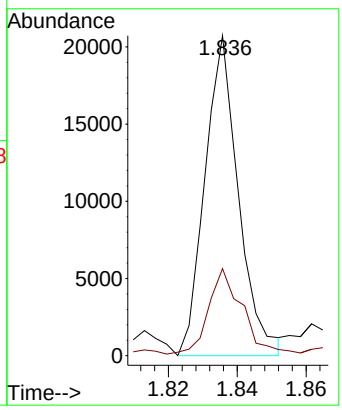




#15
Acetone
Concen: 0.671 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 43 Resp: 1401

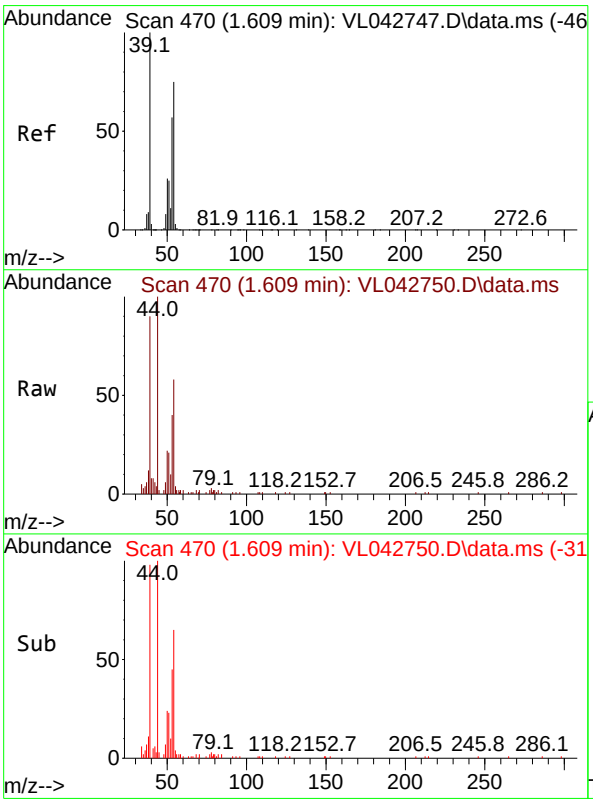
Ion	Ratio	Lower	Upper
43	100		
58	30.8	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

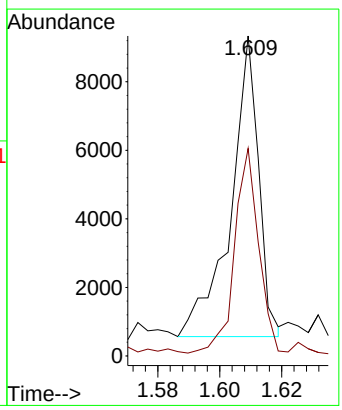
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

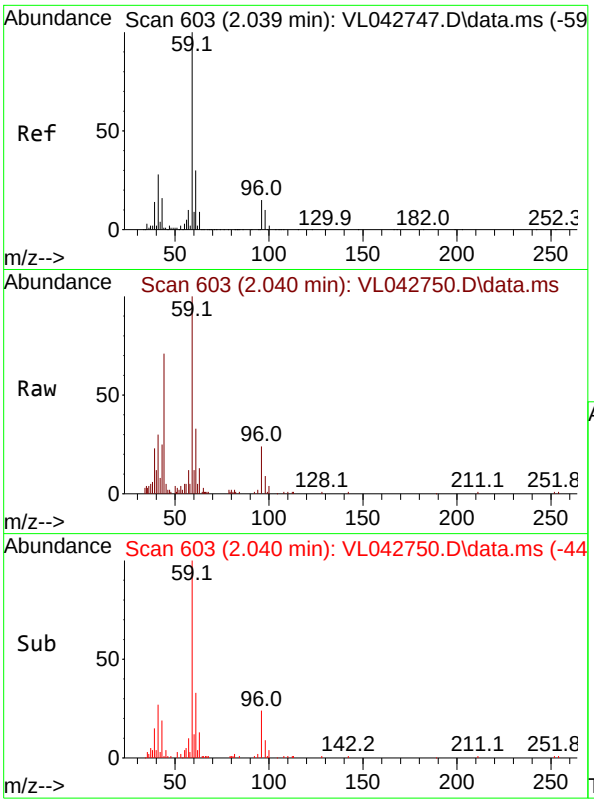


#16
1,3-Butadiene
Concen: 0.616 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 39 Resp: 5488

Ion	Ratio	Lower	Upper
39	100		
54	67.8	54.5	81.7





#17
tert-Butyl alcohol
Concen: 0.549 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

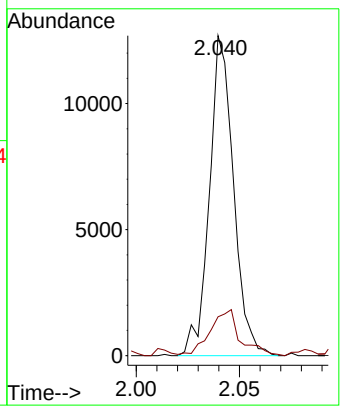
Tgt Ion: 59 Resp: 1033

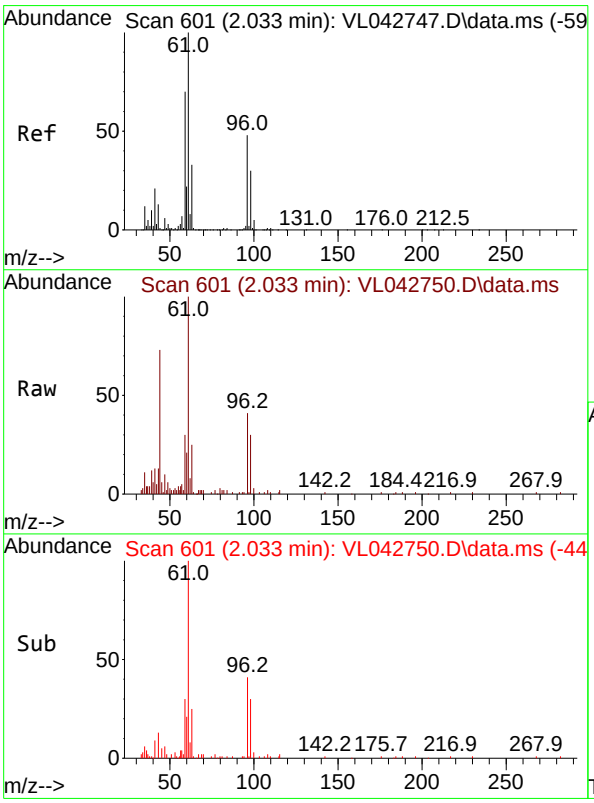
Ion	Ratio	Lower	Upper
59	100		
57	19.1	8.3	12.5#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

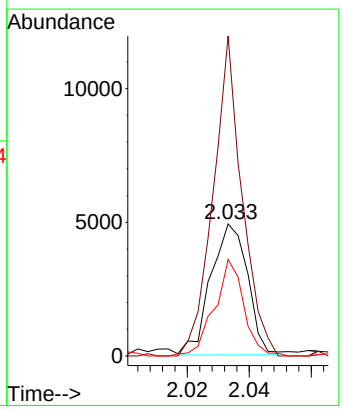


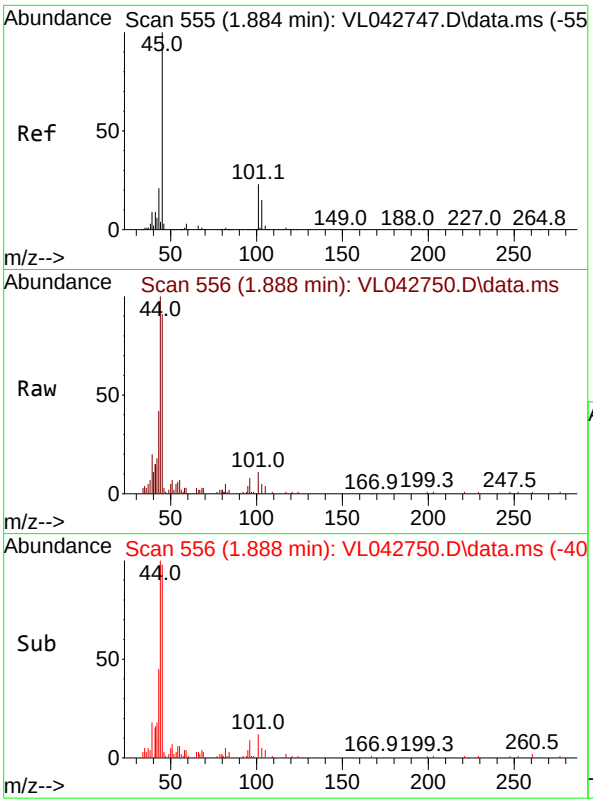


#18
1,1-Dichloroethene
Concen: 0.572 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 96 Resp: 4051

Ion	Ratio	Lower	Upper
96	100		
61	246.6	165.8	248.6
98	72.7	49.9	74.9

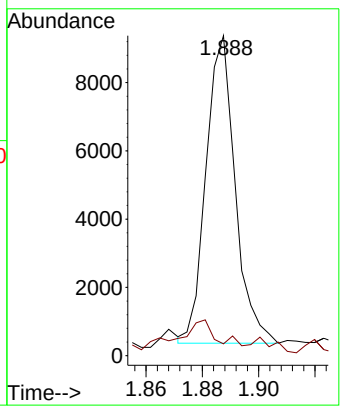




#19
Isopropyl Alcohol
Concen: 0.584 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 45 Resp: 647

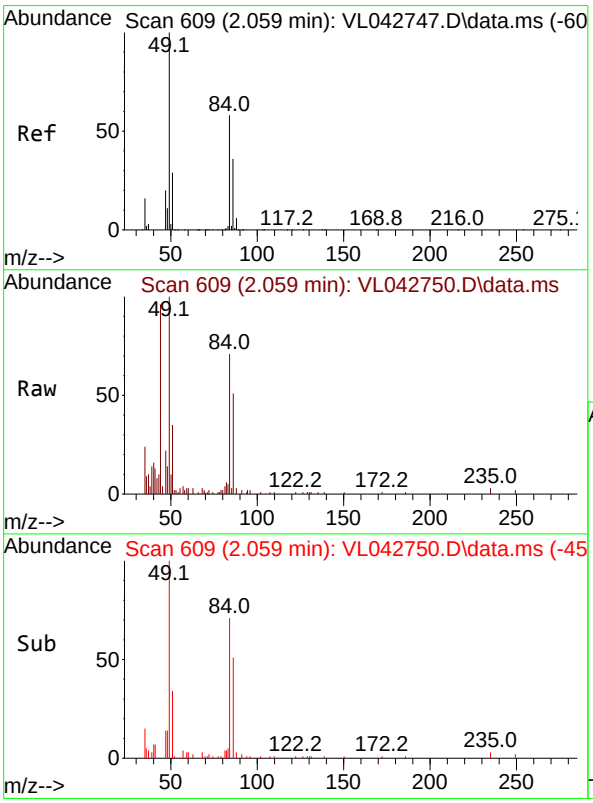
Ion	Ratio	Lower	Upper
45	100		
58	25.9	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

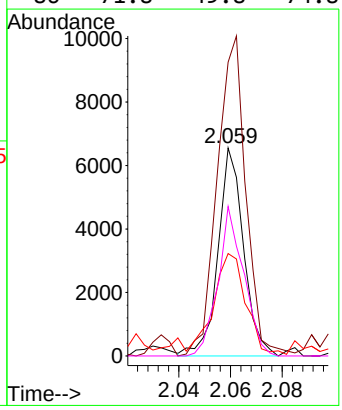
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

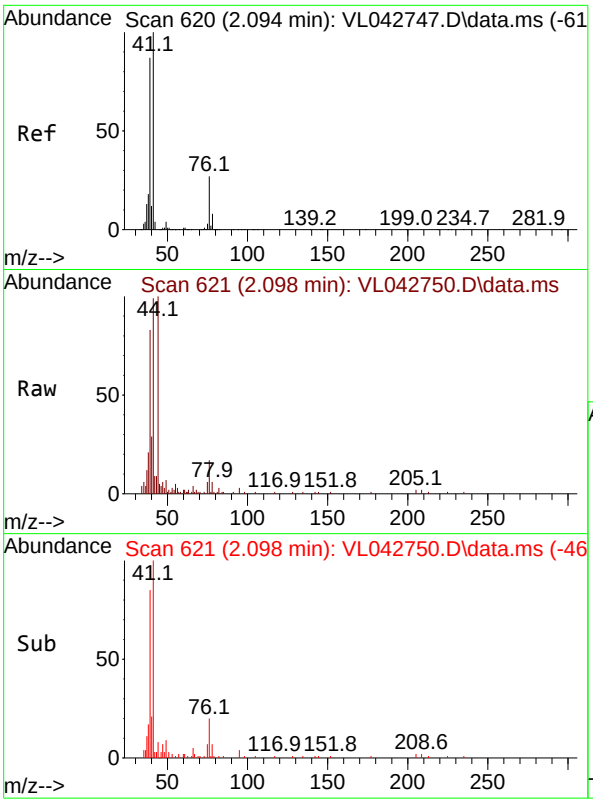


#20
Methylene Chloride
Concen: 0.684 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 84 Resp: 4500

Ion	Ratio	Lower	Upper
84	100		
49	141.2	138.6	208.0
51	46.8	40.6	61.0
86	71.8	49.8	74.8

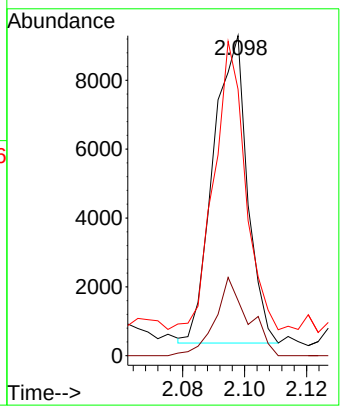




#21
Allyl Chloride
Concen: 0.531 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 41 Resp: 682

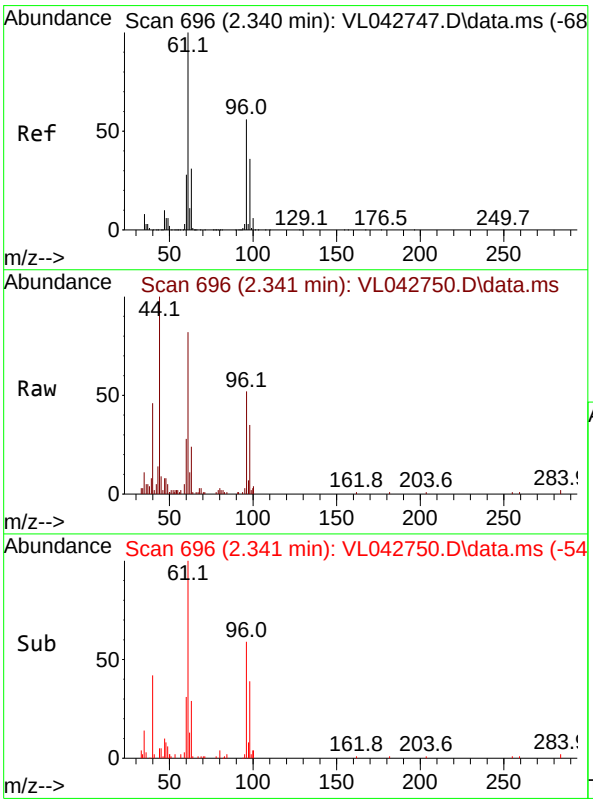
Ion	Ratio	Lower	Upper
41	100		
76	24.4	21.1	31.7
39	108.8	68.3	102.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

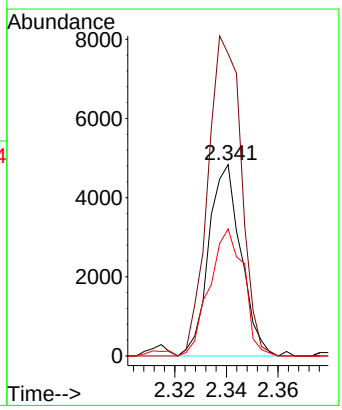
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

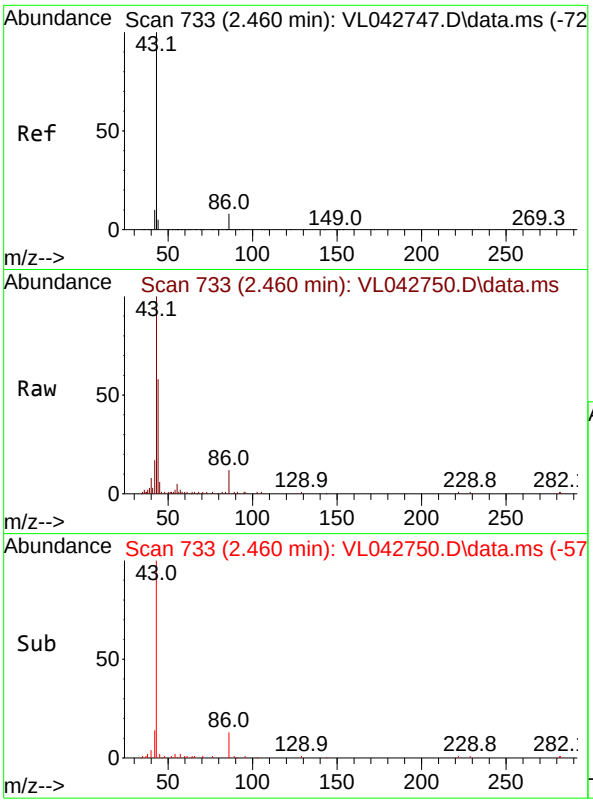


#22
trans-1,2-Dichloroethene
Concen: 0.551 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 96 Resp: 4186

Ion	Ratio	Lower	Upper
96	100		
61	157.9	142.3	213.5
98	66.4	50.6	76.0

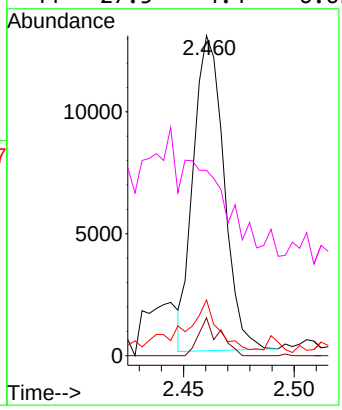




#23
Vinyl Acetate
Concen: 0.491 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 43 Resp: 1242

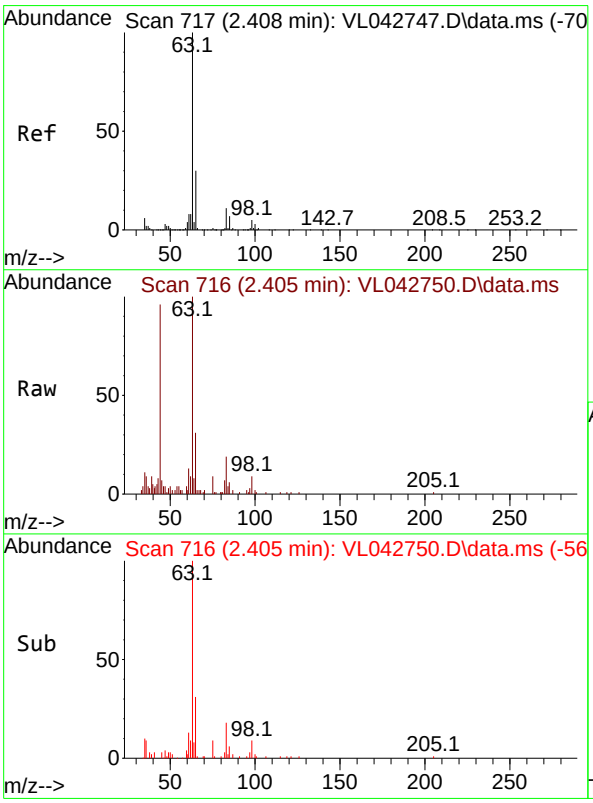
Ion	Ratio	Lower	Upper
43	100		
86	12.1	6.1	9.1#
42	13.5	7.8	11.8#
44	27.5	4.4	6.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

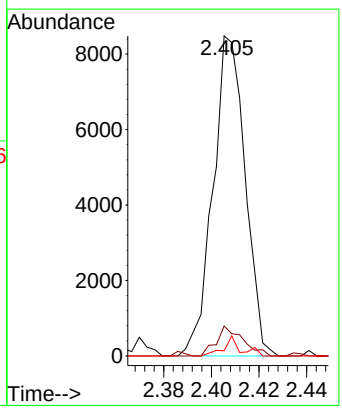
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

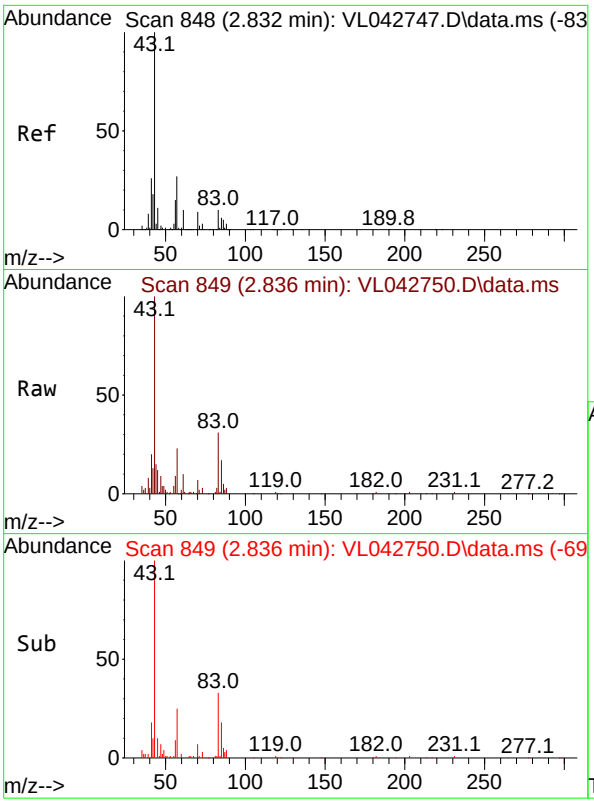


#24
1,1-Dichloroethane
Concen: 0.509 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 63 Resp: 7962

Ion	Ratio	Lower	Upper
63	100		
98	9.4	2.5	7.4#
100	2.8	1.6	4.8

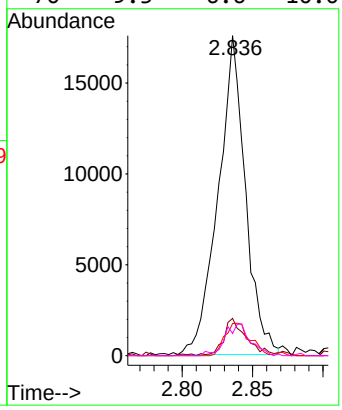




#25
Ethyl Acetate
Concen: 0.511 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 43 Resp: 2363

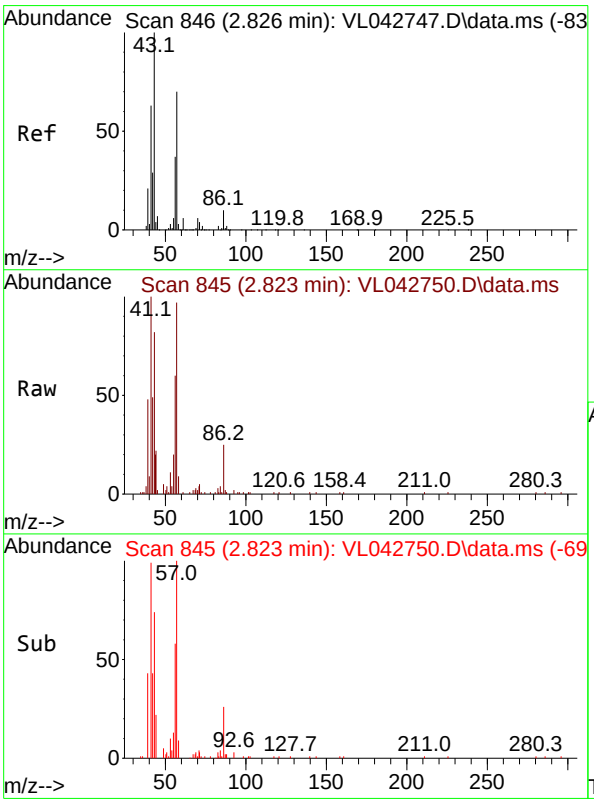
Ion	Ratio	Lower	Upper
43	100		
45	10.4	7.8	11.6
61	9.8	6.7	10.1
70	9.3	6.6	10.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

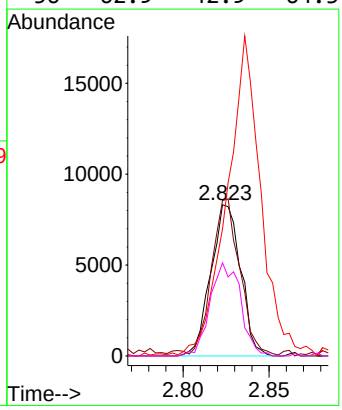
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

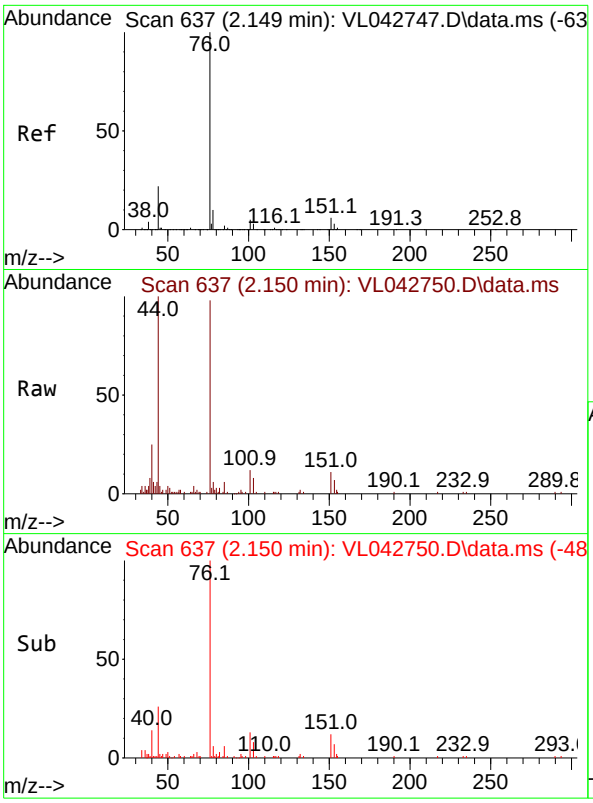


#26
Hexane
Concen: 0.494 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 57 Resp: 10019

Ion	Ratio	Lower	Upper
57	100		
41	107.1	75.4	113.2
43	244.9	185.0	277.6
56	62.9	42.9	64.3

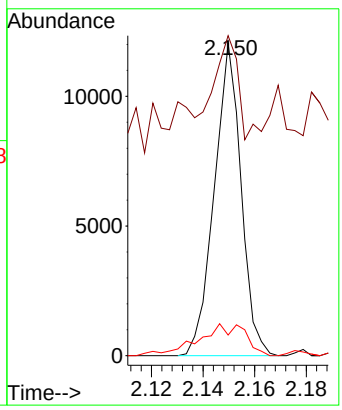




#27
Carbon Disulfide
Concen: 0.499 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 76 Resp: 867

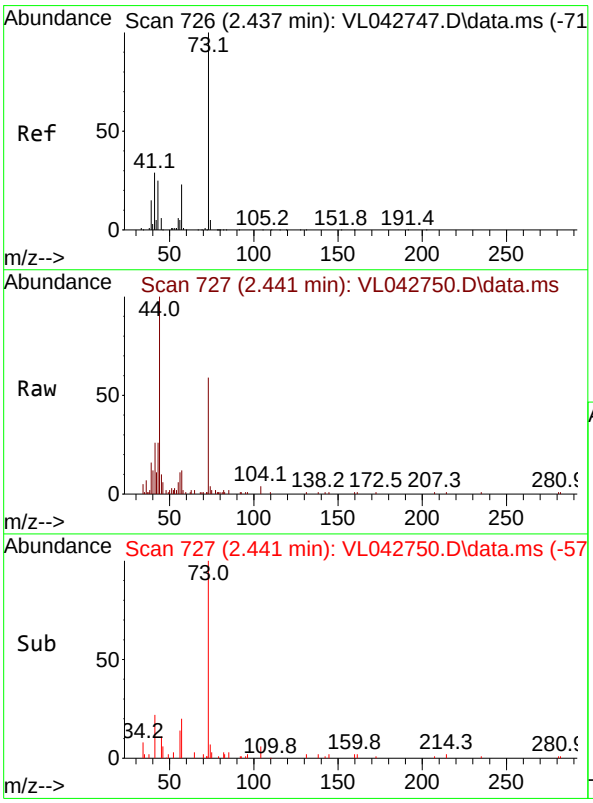
Ion	Ratio	Lower	Upper
76	100		
44	203.7	19.3	28.9#
78	19.1	9.9	14.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

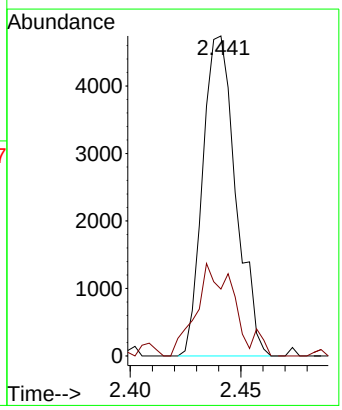
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

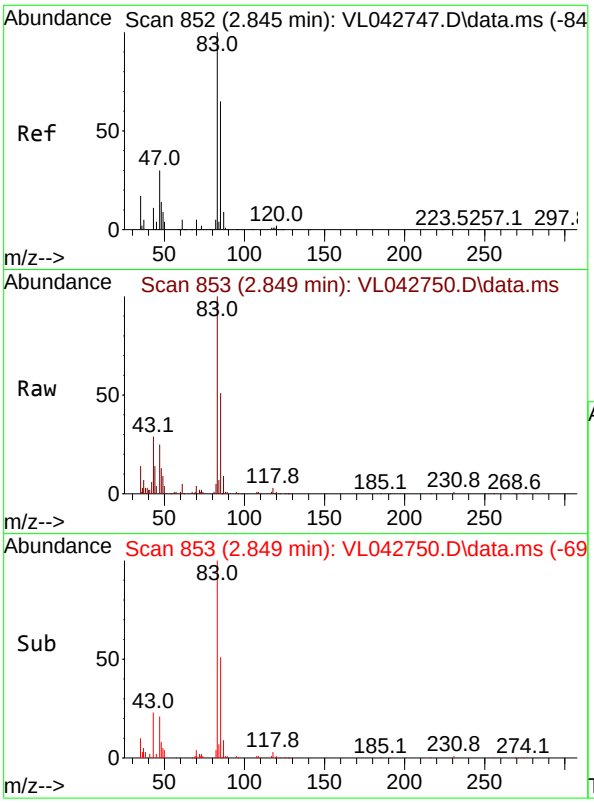


#28
Methyl tert-Butyl Ether
Concen: 0.515 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 73 Resp: 4937

Ion	Ratio	Lower	Upper
73	100		
57	35.2	19.8	29.8#





#29
Chloroform
Concen: 0.546 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

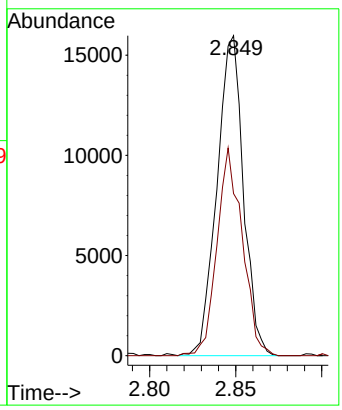
Tgt Ion: 83 Resp: 1710

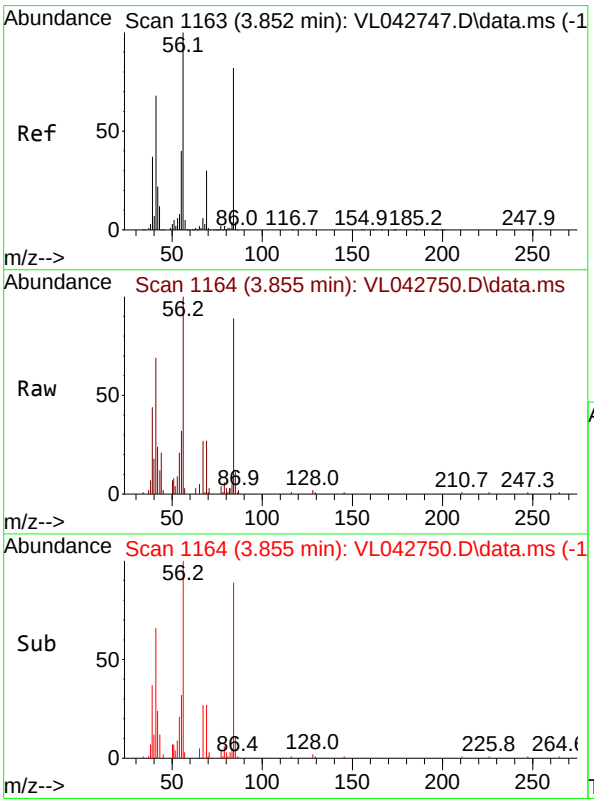
Ion	Ratio	Lower	Upper
83	100		
85	50.7	52.2	78.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

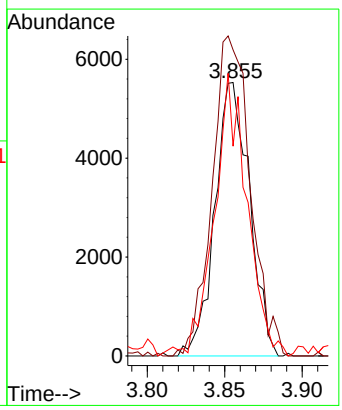


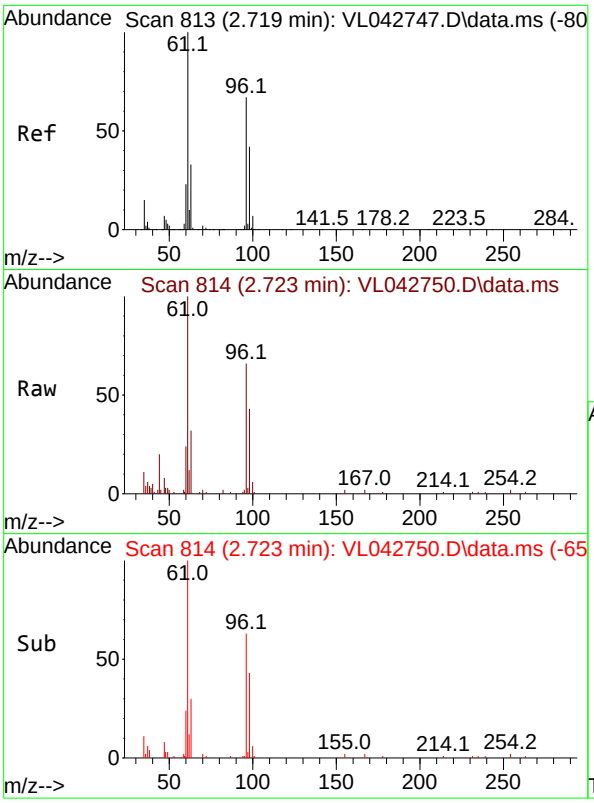


#30
Cyclohexane
Concen: 0.500 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 84 Resp: 8596

Ion	Ratio	Lower	Upper
84	100		
56	129.6	97.5	146.3
41	98.8	67.2	100.8

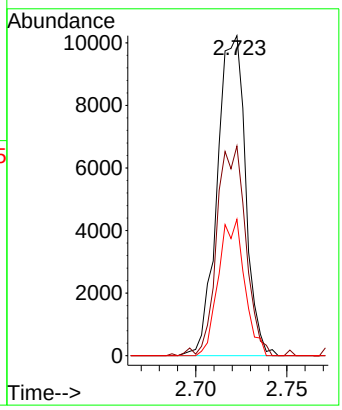




#31
cis-1,2-Dichloroethene
Concen: 0.529 ppbv
RT: 2.723 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 61 Resp: 1103

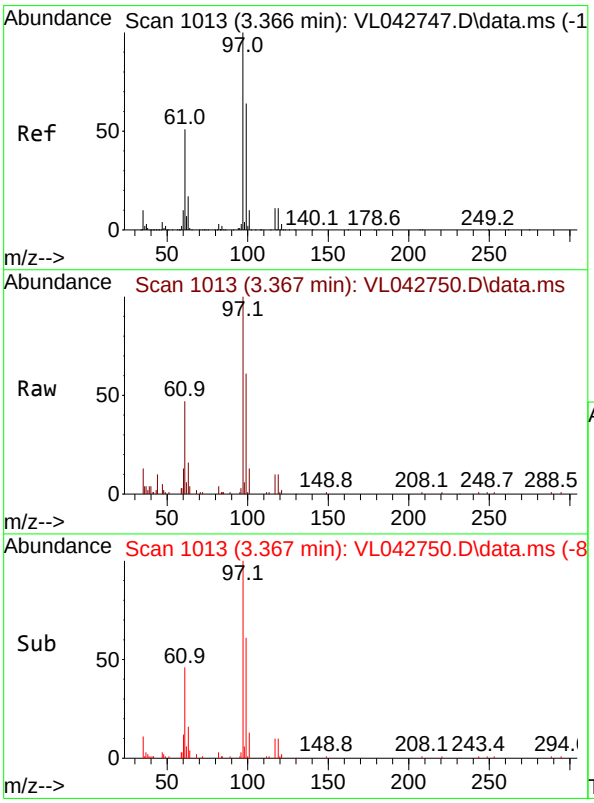
Ion	Ratio	Lower	Upper
61	100		
96	65.5	53.5	80.3
98	42.6	33.6	50.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

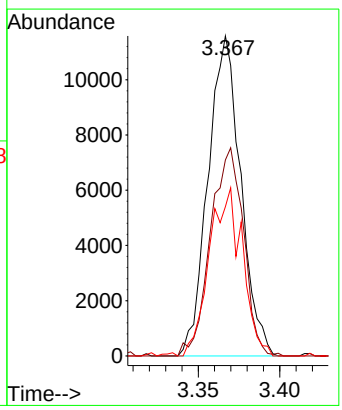
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

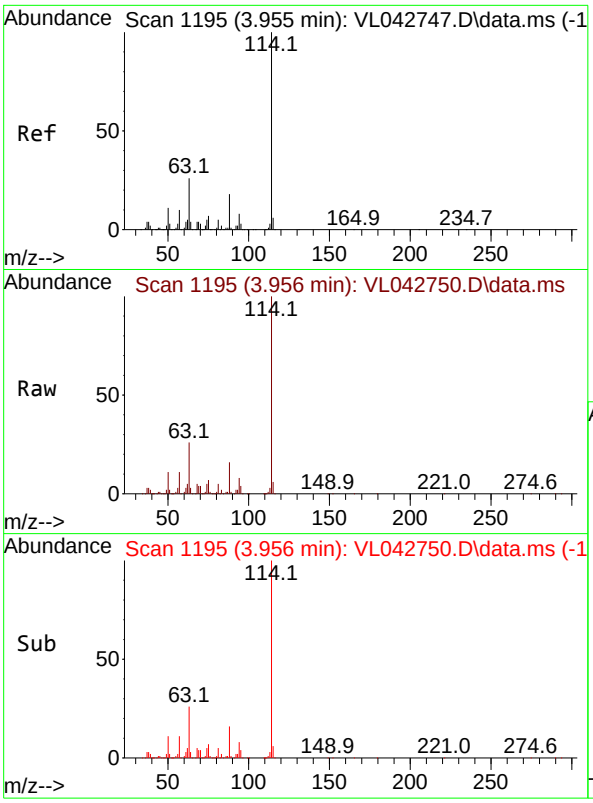


#32
1,1,1-Trichloroethane
Concen: 0.494 ppbv
RT: 3.367 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 97 Resp: 16132

Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.0	76.6
61	53.8	40.9	61.3

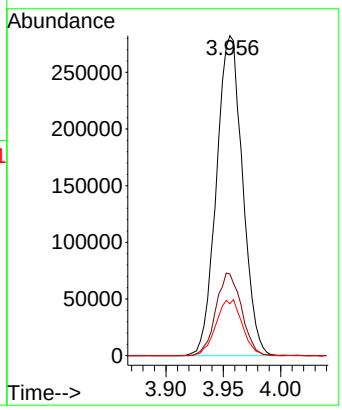




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:114 Resp: 44683

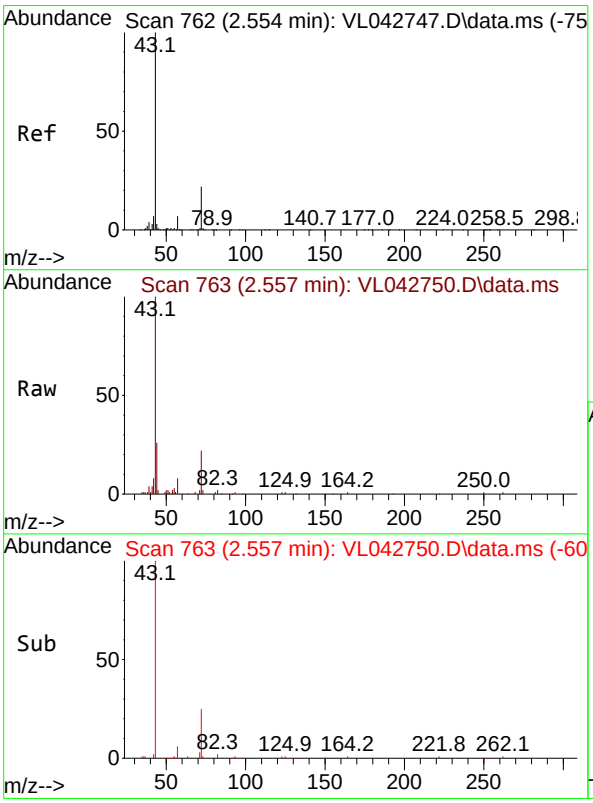
Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.5	30.7
88	17.7	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

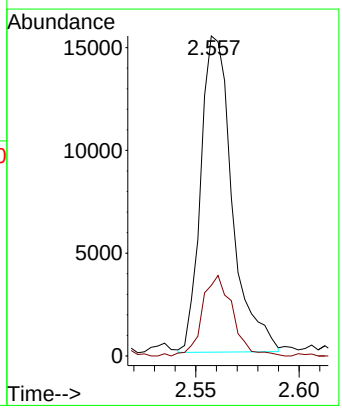
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

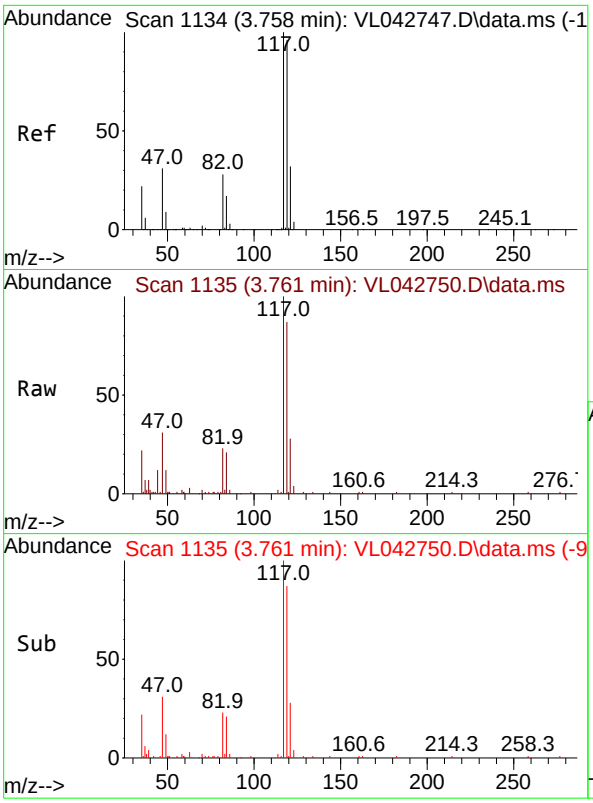


#34
2-Butanone
Concen: 0.515 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 43 Resp: 16299

Ion	Ratio	Lower	Upper
43	100		
72	24.6	17.4	26.0

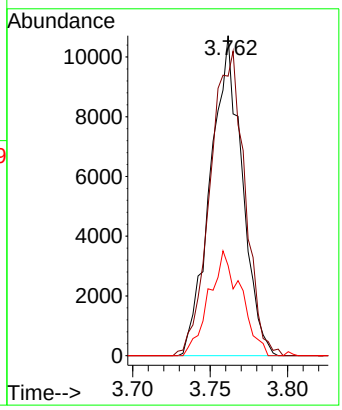




#35
Carbon Tetrachloride
Concen: 0.458 ppbv
RT: 3.761 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:117 Resp: 1520

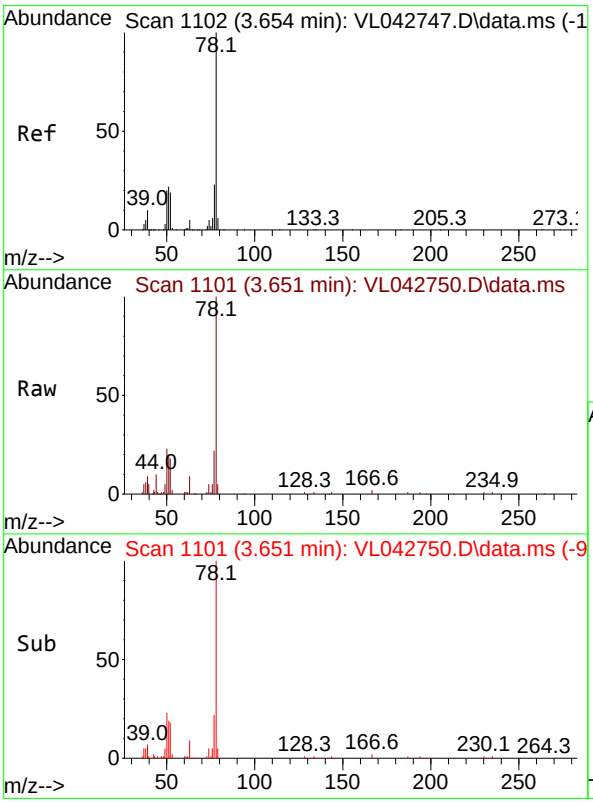
Ion	Ratio	Lower	Upper
117	100		
119	86.0	77.1	115.7
121	28.2	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

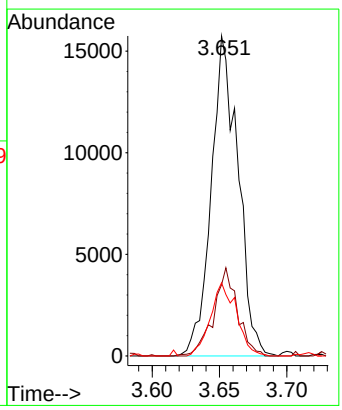
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

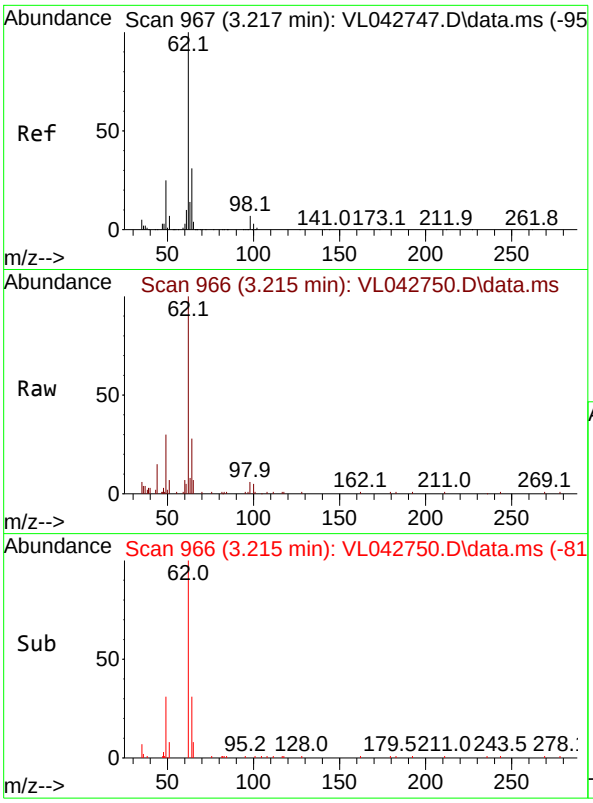


#36
Benzene
Concen: 0.515 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 78 Resp: 21800

Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.5	27.7
50	22.8	16.2	24.2

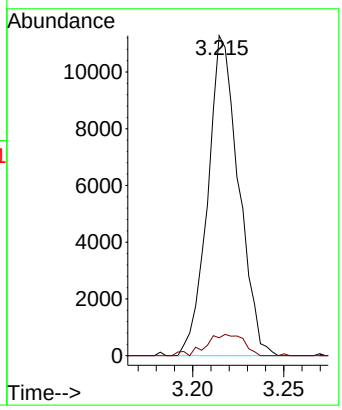




#37
1,2-Dichloroethane
Concen: 0.521 ppbv
RT: 3.215 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 62 Resp: 1329

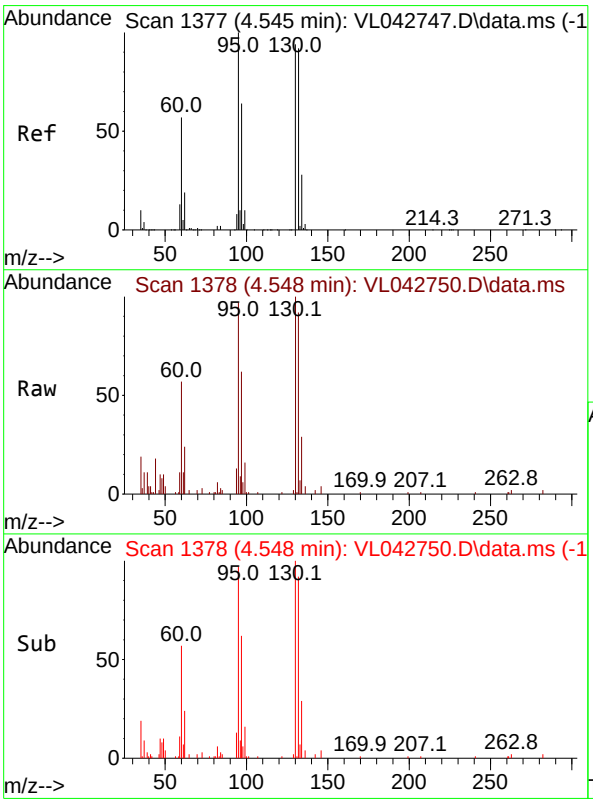
Ion	Ratio	Lower	Upper
62	100		
98	8.3	5.2	7.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

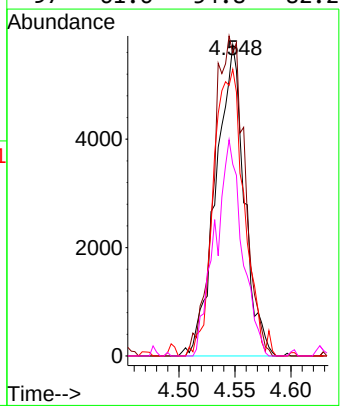
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

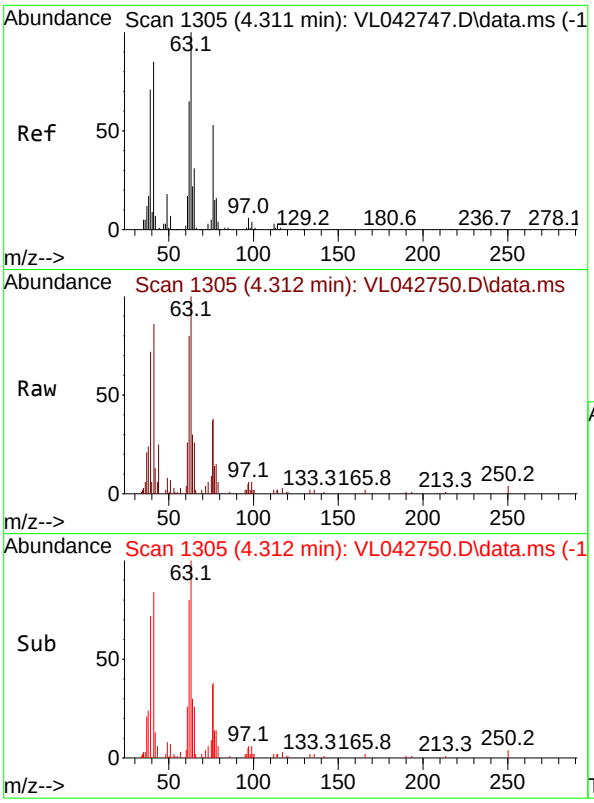


#38
Trichloroethene
Concen: 0.494 ppbv m
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:130 Resp: 10097

Ion	Ratio	Lower	Upper
130	100		
95	97.3	85.4	128.2
132	92.1	78.2	117.2
97	61.6	54.8	82.2

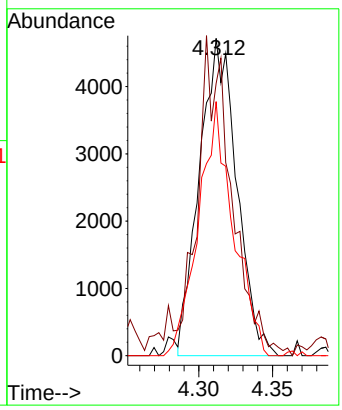




#39
1,2-Dichloropropane
Concen: 0.530 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 63 Resp: 829

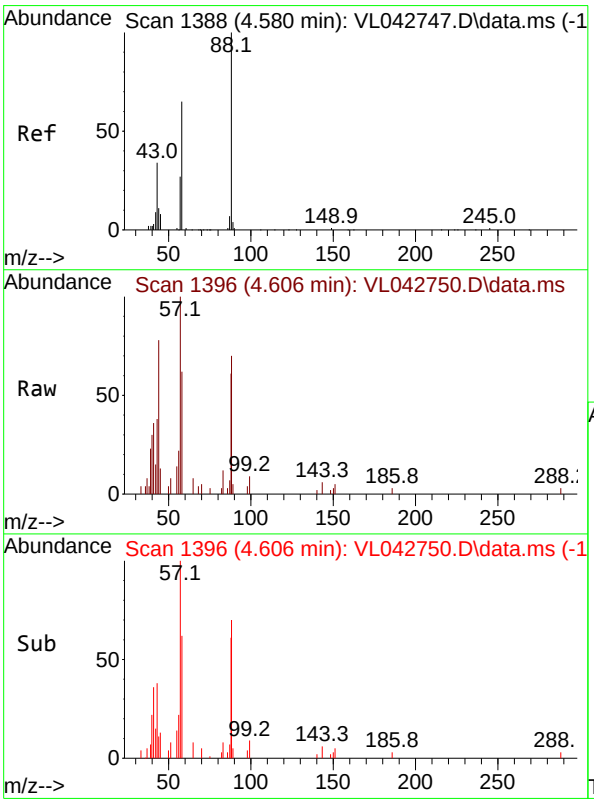
Ion	Ratio	Lower	Upper
63	100		
41	83.1	68.2	102.4
62	80.1	52.0	78.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

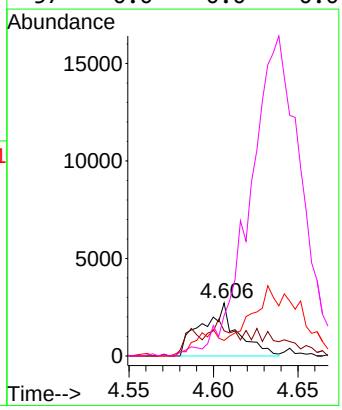
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

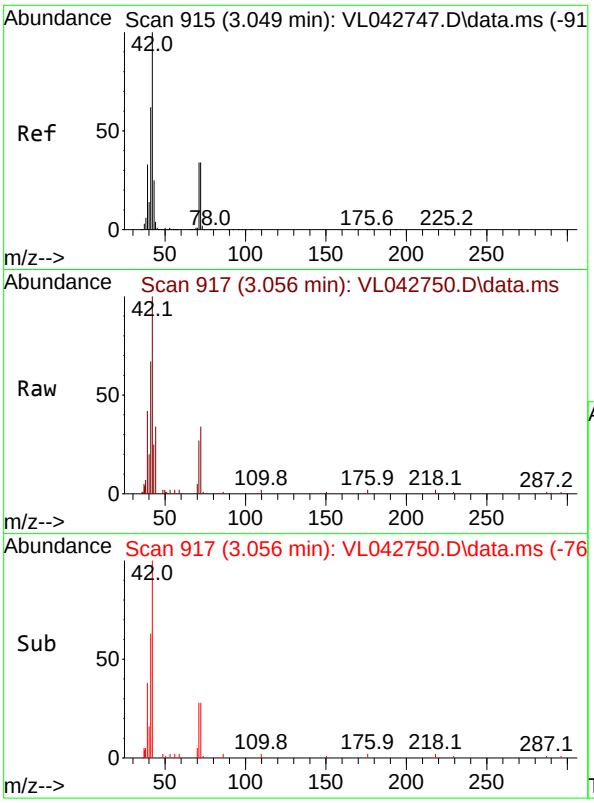


#40
1,4-Dioxane
Concen: 0.538 ppbv m
RT: 4.606 min Scan# 1396
Delta R.T. 0.026 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 88 Resp: 3963

Ion	Ratio	Lower	Upper
88	100		
58	0.0	58.8	88.2#
43	0.0	28.9	43.3#
57	0.0	0.0	0.0

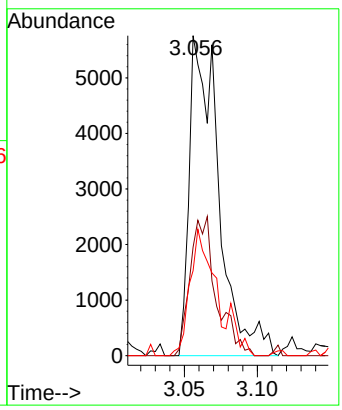




#41
Tetrahydrofuran
Concen: 0.507 ppbv m
RT: 3.056 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 42 Resp: 806

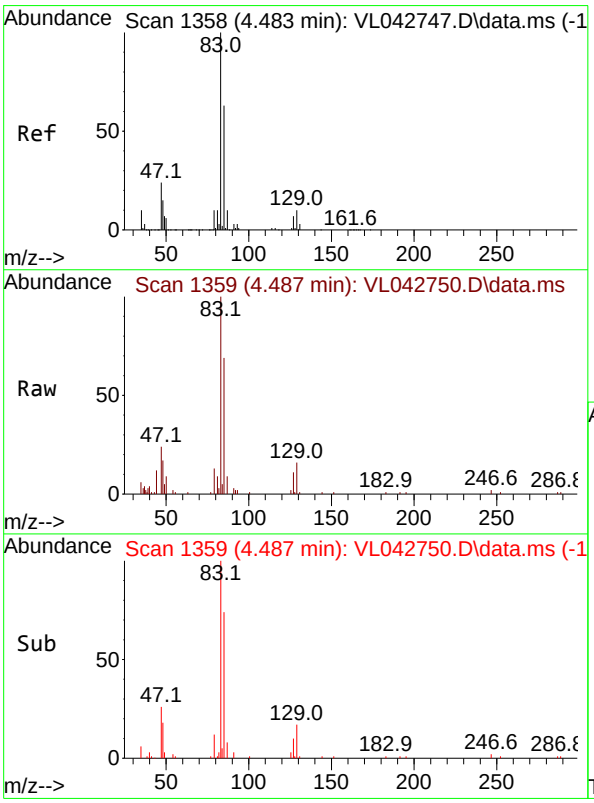
Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	37.6	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

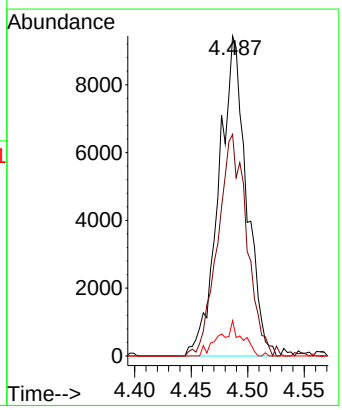
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

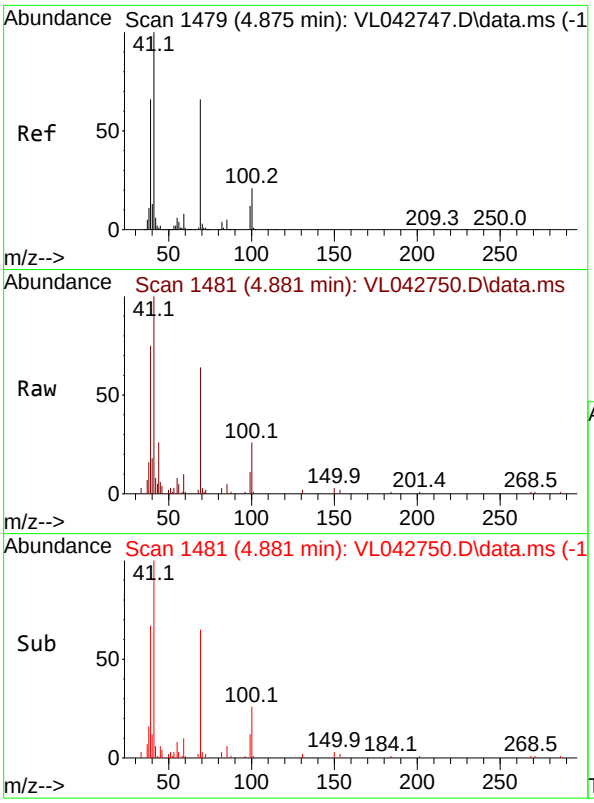


#42
Bromodichloromethane
Concen: 0.484 ppbv m
RT: 4.487 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 83 Resp: 16080

Ion	Ratio	Lower	Upper
83	100		
85	69.3	50.2	75.4
127	11.1	5.4	8.2#

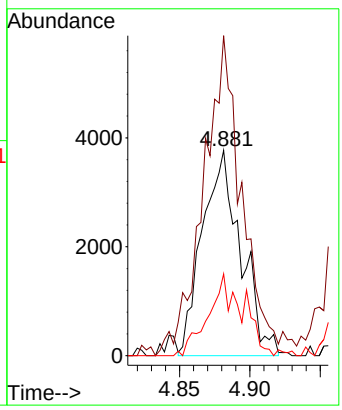




#43
Methyl Methacrylate
Concen: 0.476 ppbv m
RT: 4.881 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 69 Resp: 716

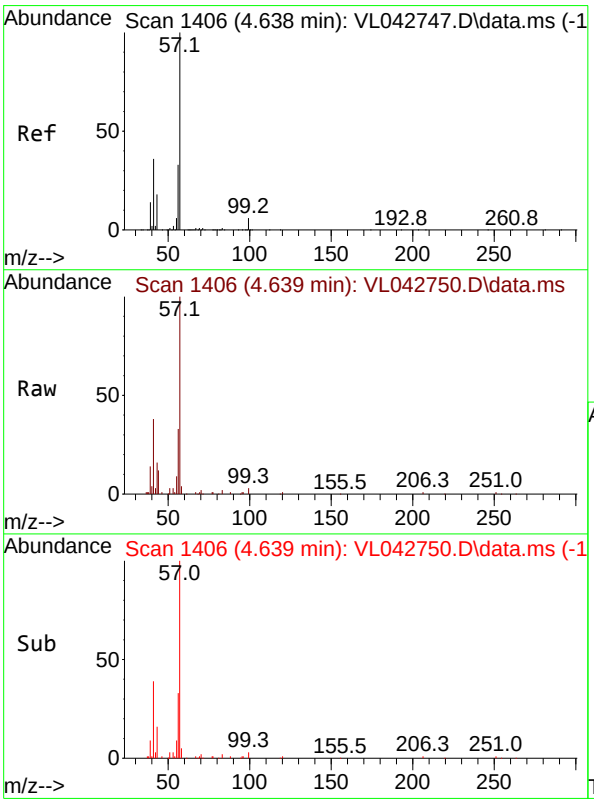
Ion	Ratio	Lower	Upper
69	100		
41	155.0	125.7	188.5
100	36.5	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

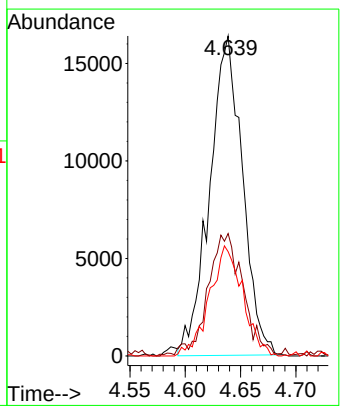
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

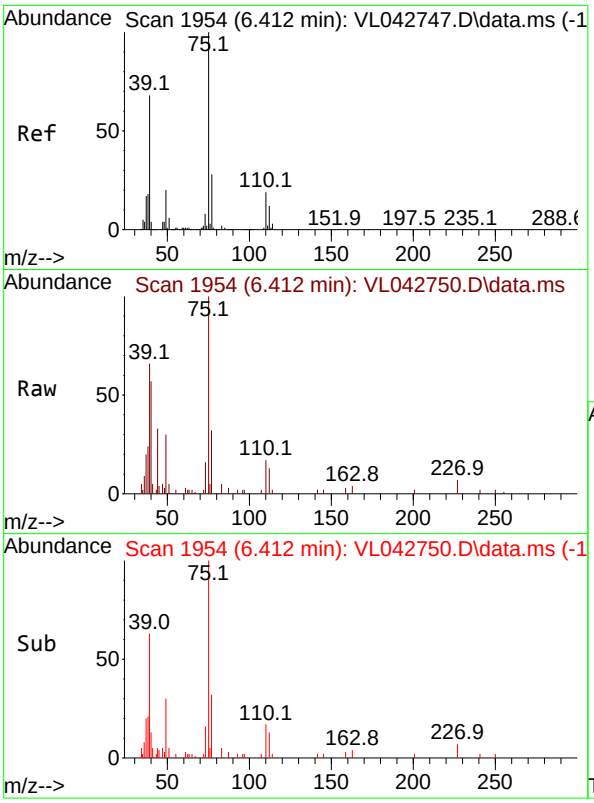


#44
2,2,4-Trimethylpentane
Concen: 0.490 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 57 Resp: 33853

Ion	Ratio	Lower	Upper
57	100		
41	41.3	28.3	42.5
56	34.7	25.8	38.6

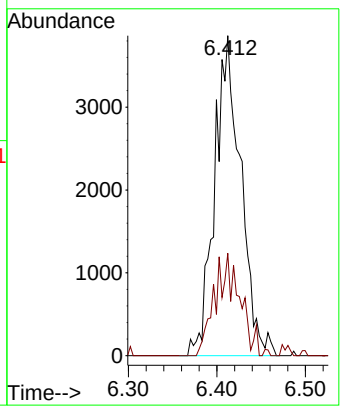




#45
t-1,3-Dichloropropene
Concen: 0.472 ppbv m
RT: 6.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 75 Resp: 796

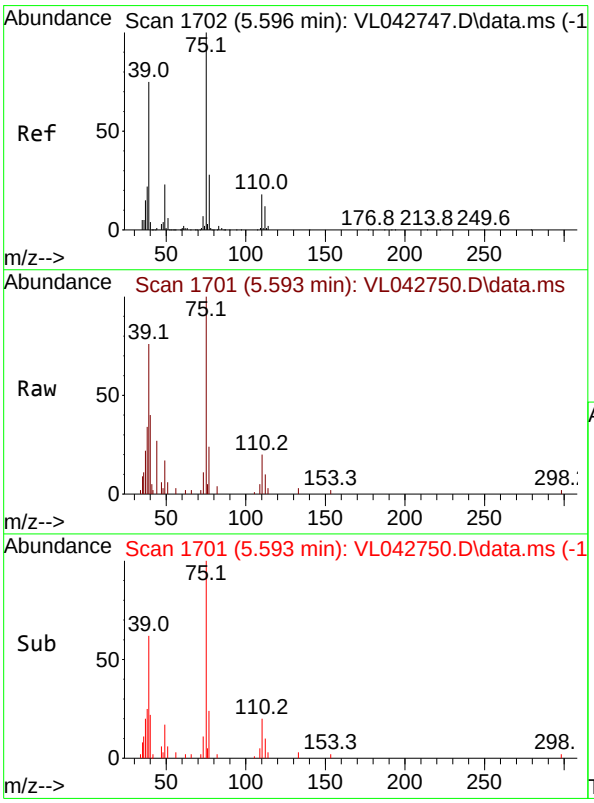
Ion	Ratio	Lower	Upper
75	100		
77	32.0	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

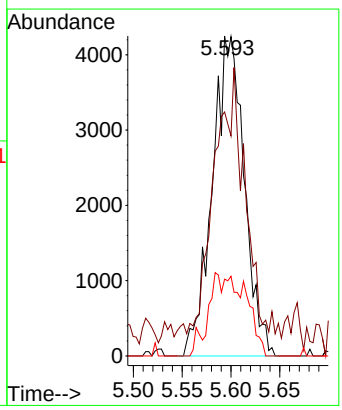
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

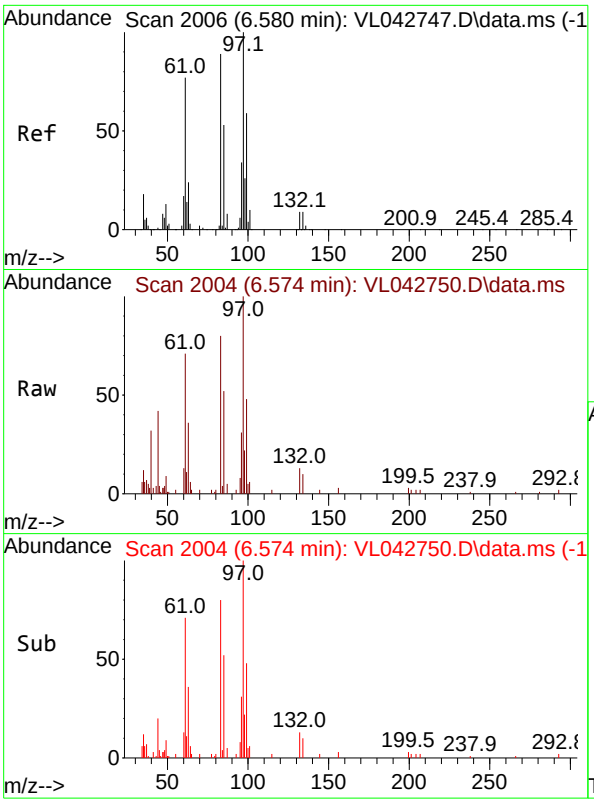


#46
cis-1,3-Dichloropropene
Concen: 0.454 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 75 Resp: 9709

Ion	Ratio	Lower	Upper
75	100		
39	76.3	60.2	90.2
77	24.0	22.6	34.0

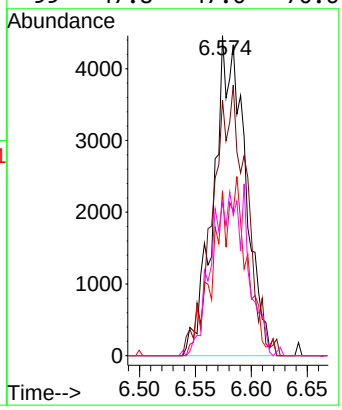




#47
1,1,2-Trichloroethane
Concen: 0.527 ppbv m
RT: 6.574 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 97 Resp: 878

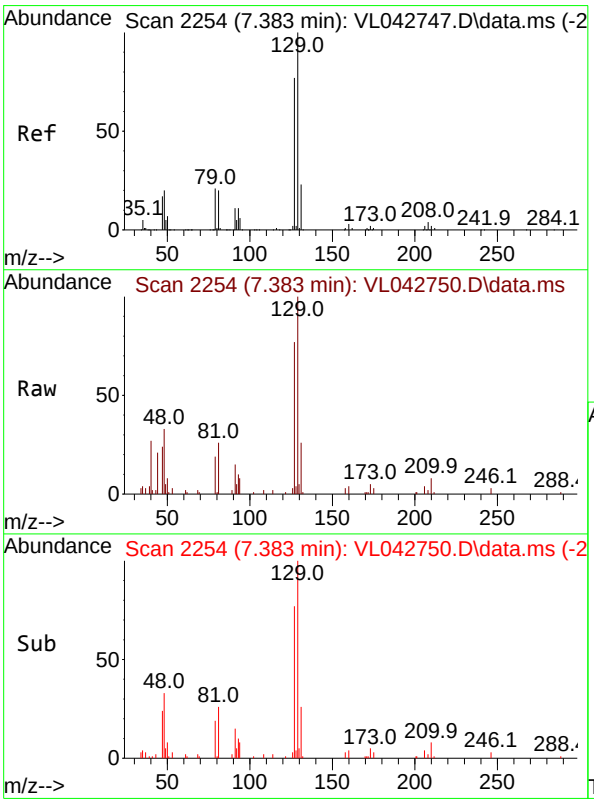
Ion	Ratio	Lower	Upper
97	100		
83	79.9	71.1	106.7
85	51.6	43.0	64.4
99	47.8	47.0	70.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

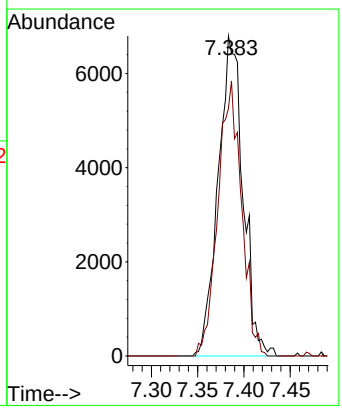
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

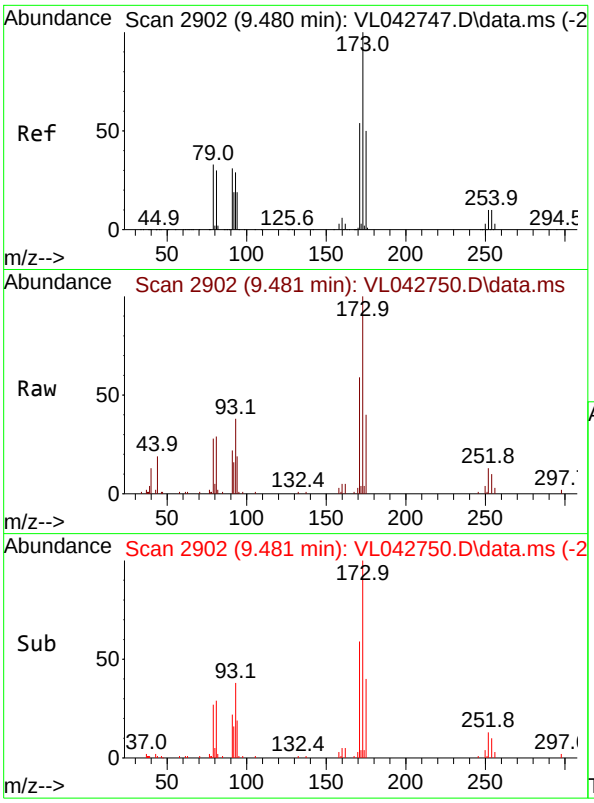


#48
Dibromochloromethane
Concen: 0.481 ppbv m
RT: 7.383 min Scan# 2254
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:129 Resp: 12723

Ion	Ratio	Lower	Upper
129	100		
127	81.4	38.7	116.1

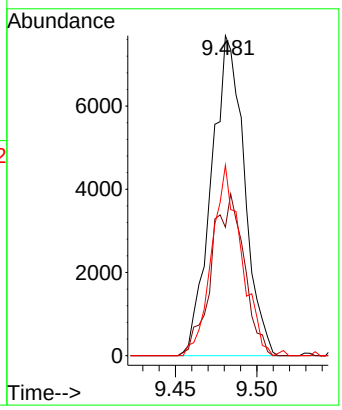




#49
Bromoform
Concen: 0.468 ppbv
RT: 9.481 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:173 Resp: 1080

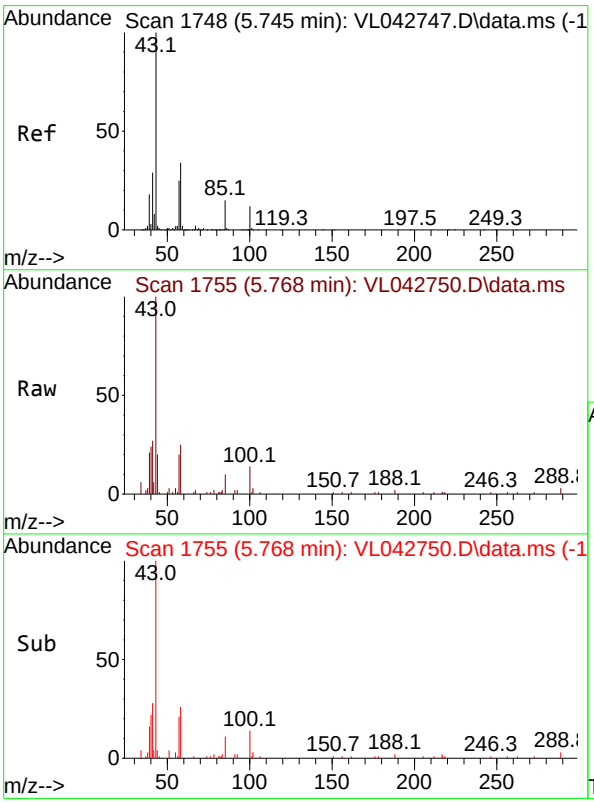
Ion	Ratio	Lower	Upper
173	100		
175	50.1	38.4	57.6
171	53.7	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

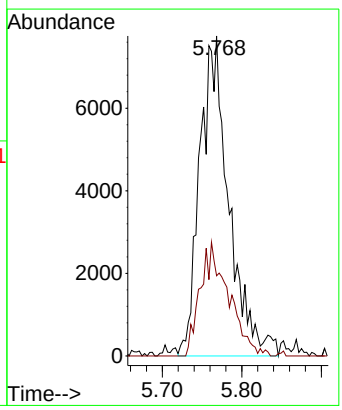
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

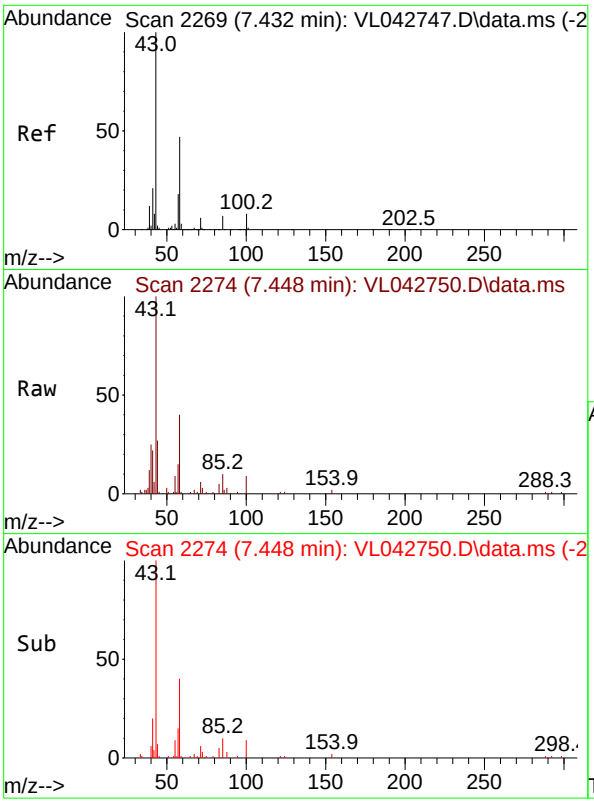


#50
4-Methyl-2-Pentanone
Concen: 0.486 ppbv m
RT: 5.768 min Scan# 1755
Delta R.T. 0.023 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 43 Resp: 19575

Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.8	41.8#

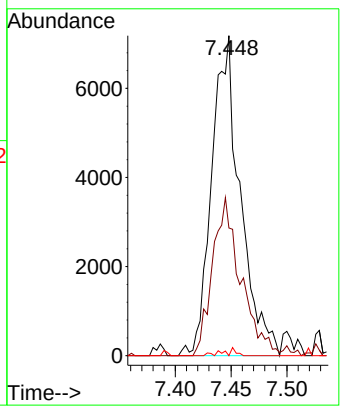




#51
2-Hexanone
Concen: 0.416 ppbv m
RT: 7.448 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 43 Resp: 1281

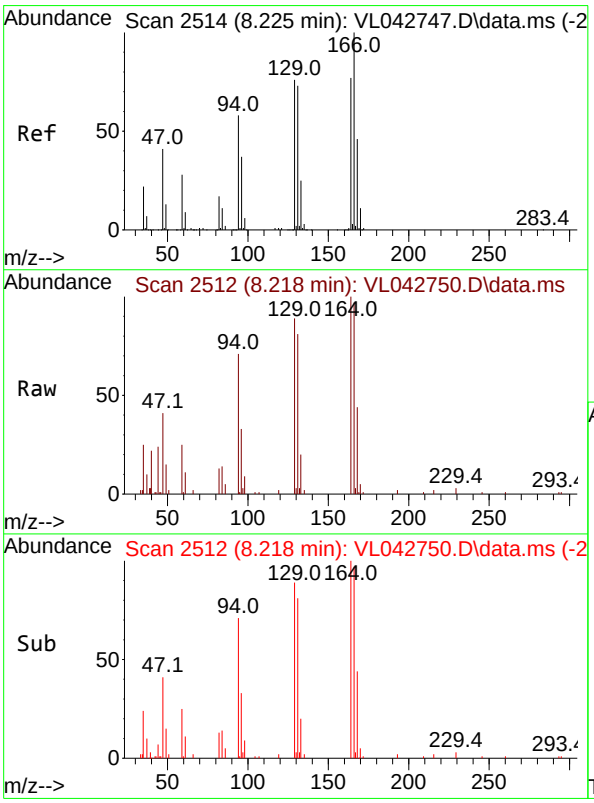
Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.0	57.0#
98	0.0	0.2	0.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

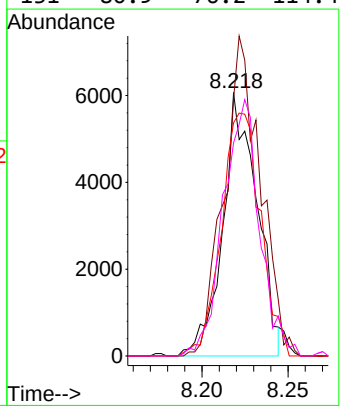
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

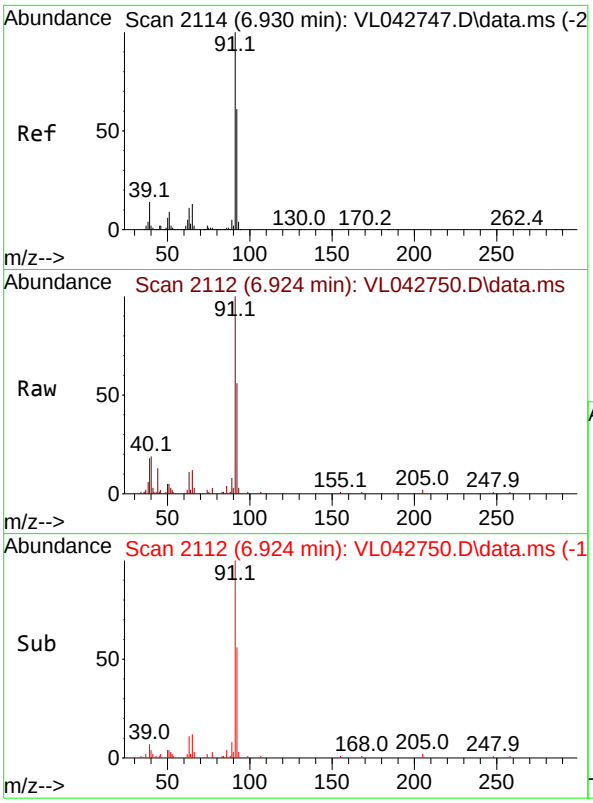


#52
Tetrachloroethene
Concen: 0.475 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:164 Resp: 8359

Ion	Ratio	Lower	Upper
164	100		
166	97.5	104.0	156.0#
129	88.5	79.2	118.8
131	80.9	76.2	114.4

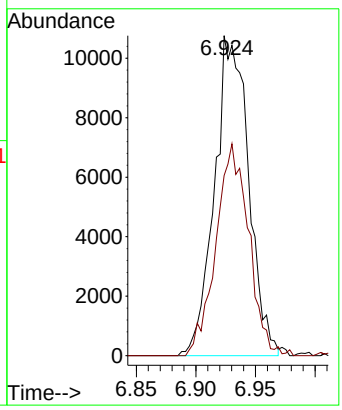




#53
Toluene
Concen: 0.469 ppbv
RT: 6.924 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 2132

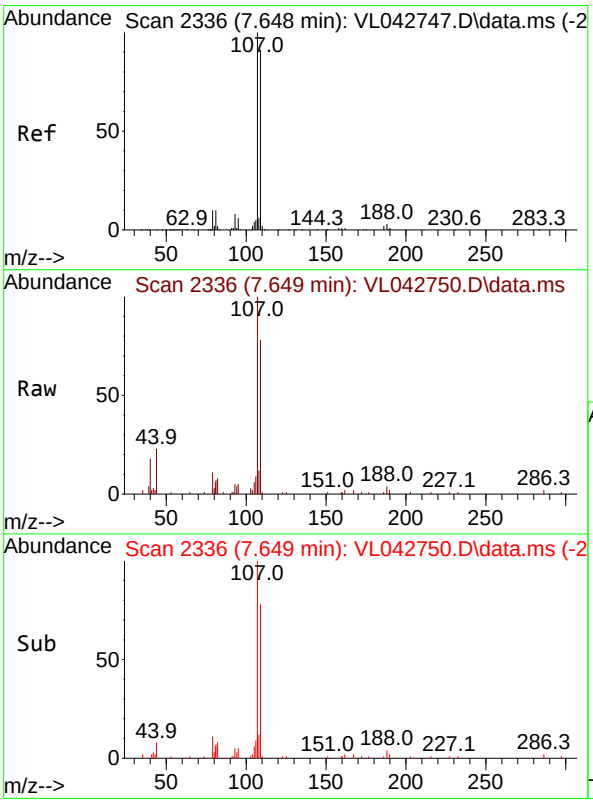
Ion	Ratio	Lower	Upper
91	100		
92	63.9	48.0	72.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

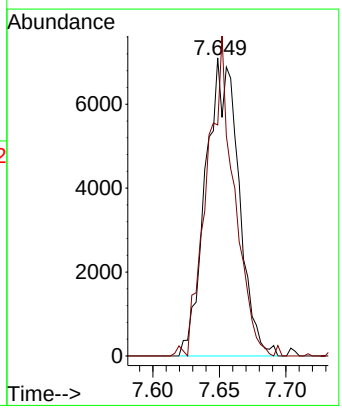
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

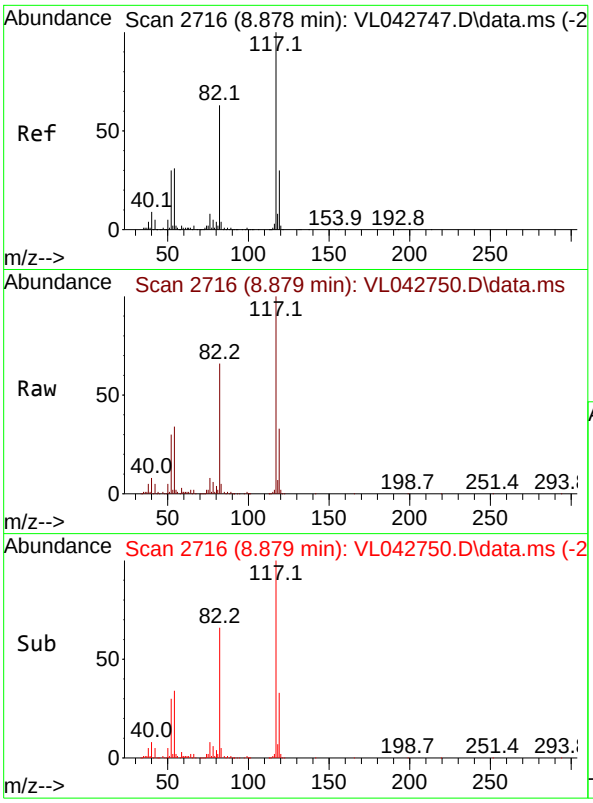


#54
1,2-Dibromoethane
Concen: 0.521 ppbv m
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:107 Resp: 12294

Ion	Ratio	Lower	Upper
107	100		
109	77.5	72.7	109.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

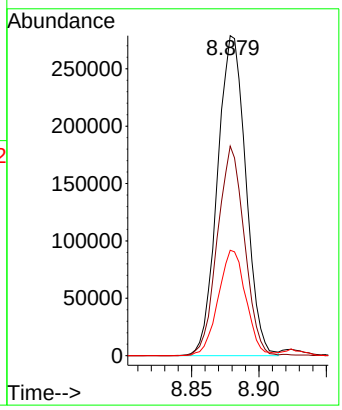
Tgt Ion:117 Resp: 40862

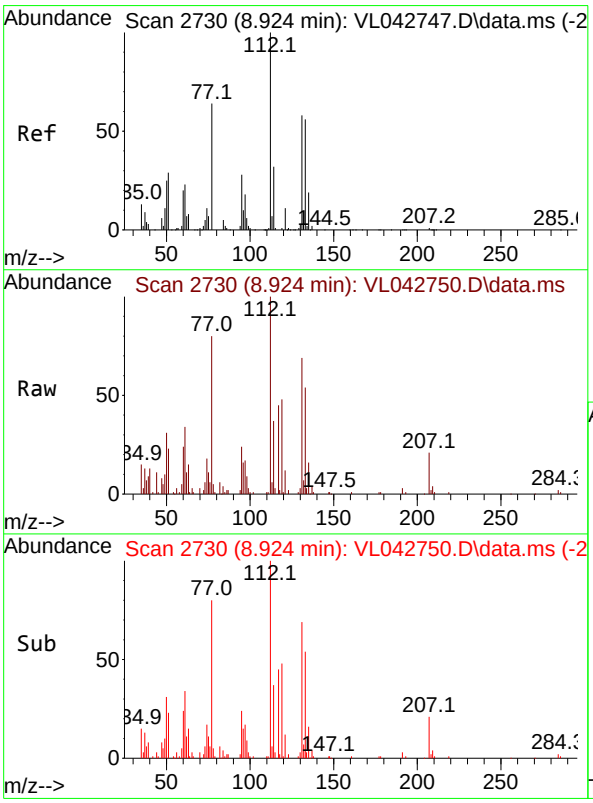
Ion	Ratio	Lower	Upper
117	100		
82	62.7	53.3	79.9
119	32.3	25.8	38.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

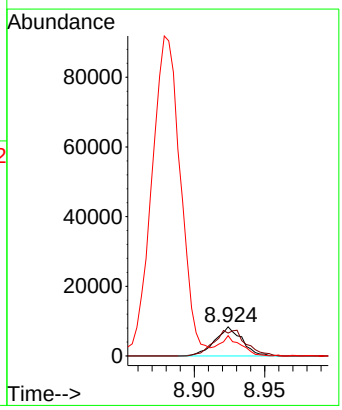


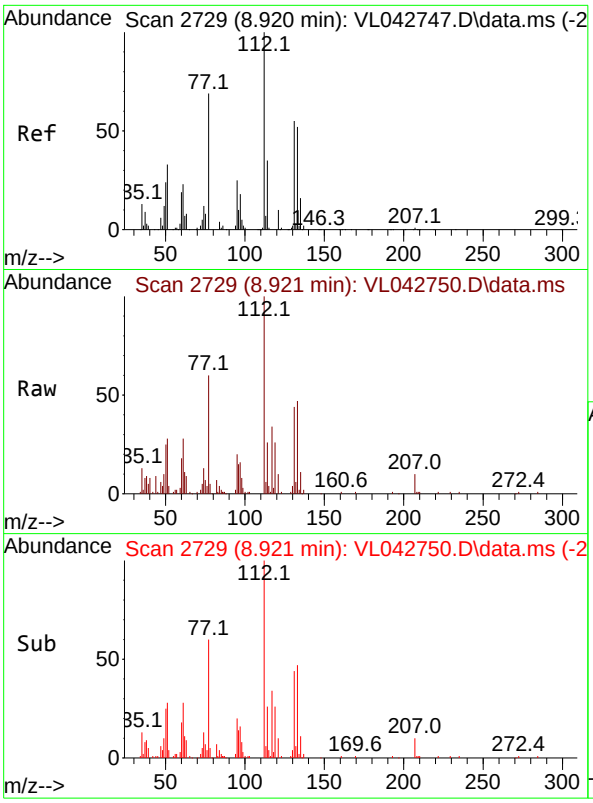


#56
1,1,1,2-Tetrachloroethane
Concen: 0.527 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:131 Resp: 11191

Ion	Ratio	Lower	Upper
131	100		
133	104.0	76.8	115.2
119	1231.3	49.7	74.5#

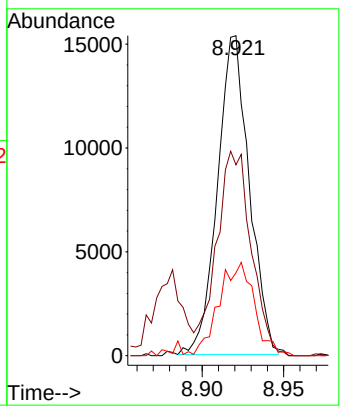




#57
Chlorobenzene
Concen: 0.527 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:112 Resp: 2082

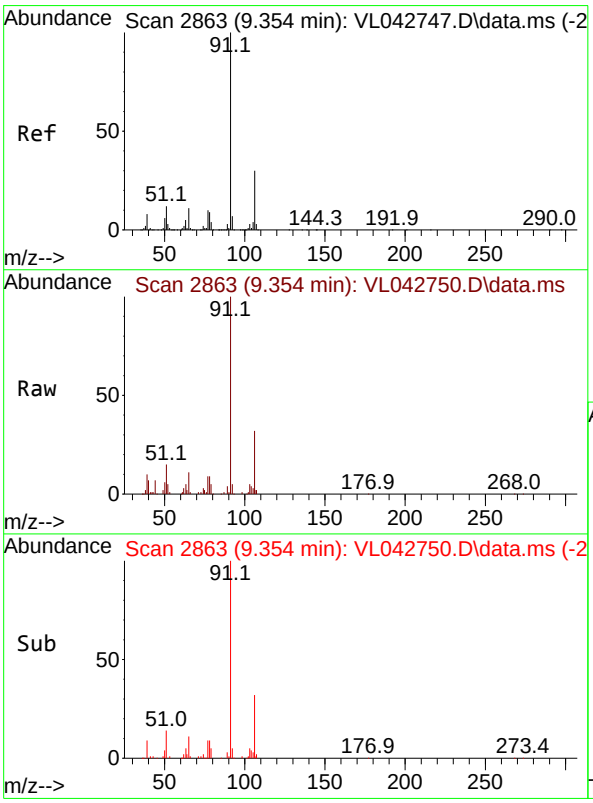
Ion	Ratio	Lower	Upper
112	100		
77	58.4	56.4	84.6
114	23.8	31.2	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

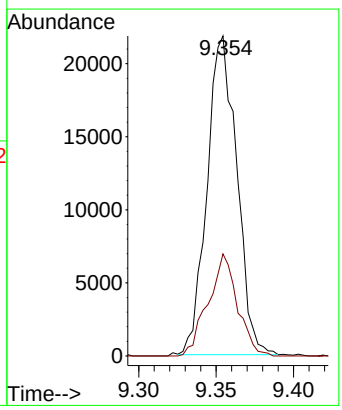
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

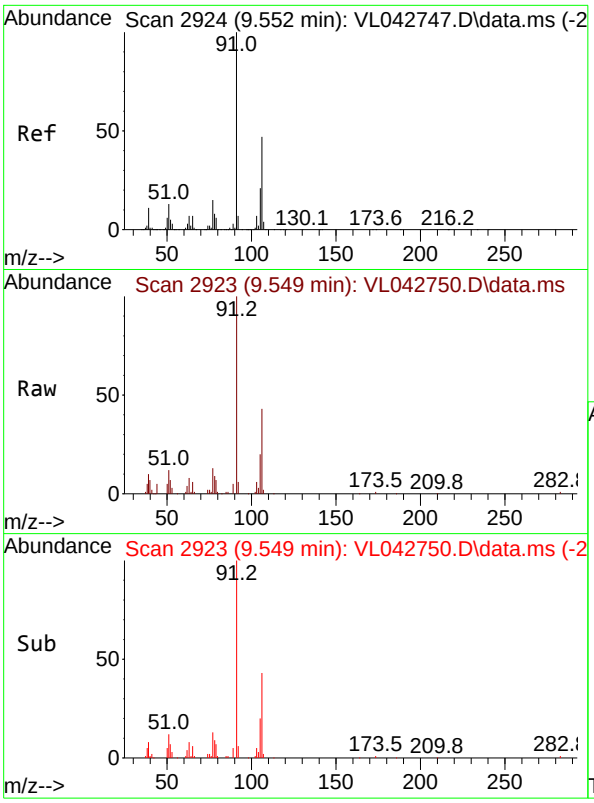


#58
Ethyl Benzene
Concen: 0.451 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 29134

Ion	Ratio	Lower	Upper
91	100		
106	32.0	23.8	35.6

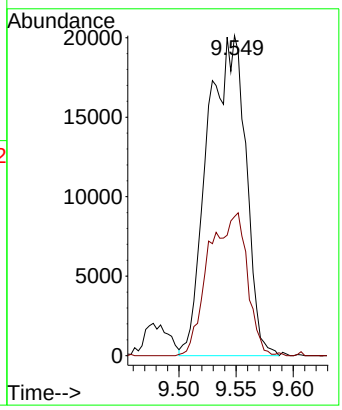




#59
m/p-Xylene
Concen: 0.912 ppbv m
RT: 9.549 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 4702

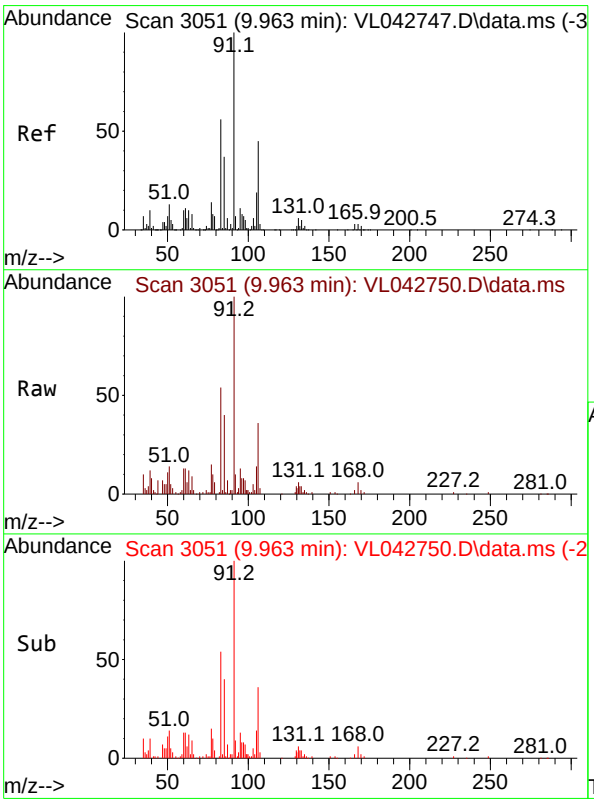
Ion	Ratio	Lower	Upper
91	100		
106	44.9	37.4	56.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

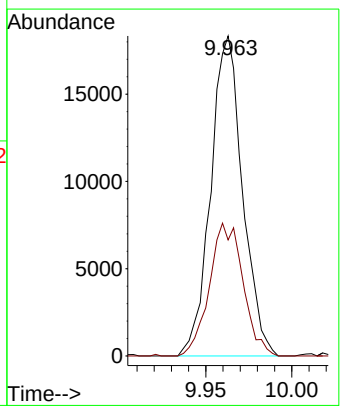
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

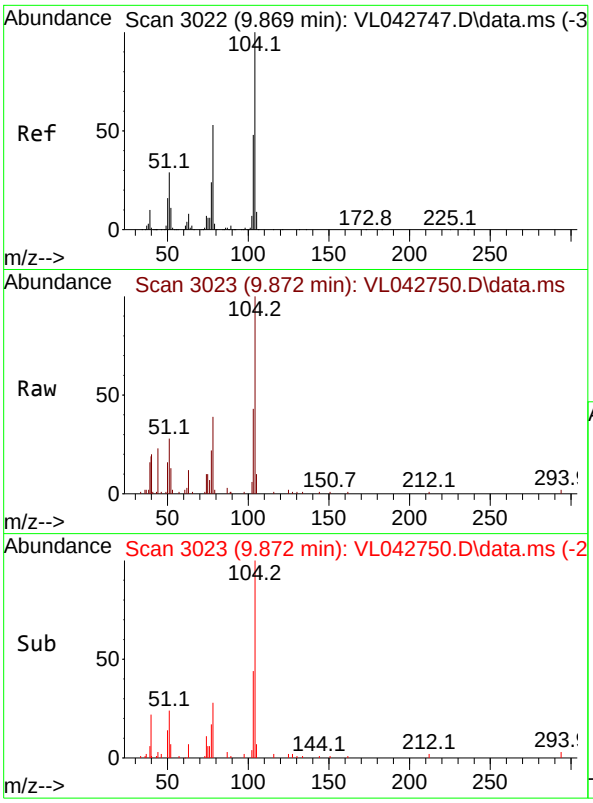


#60
o-Xylene
Concen: 0.458 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 23603

Ion	Ratio	Lower	Upper
91	100		
106	43.8	22.0	66.0

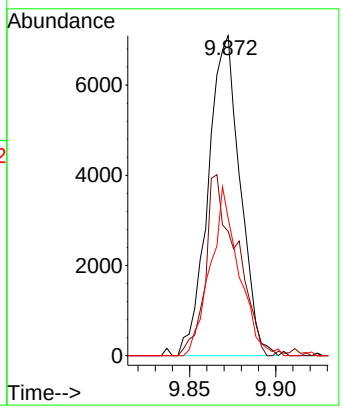




#61
Styrene
Concen: 0.424 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:104 Resp: 919

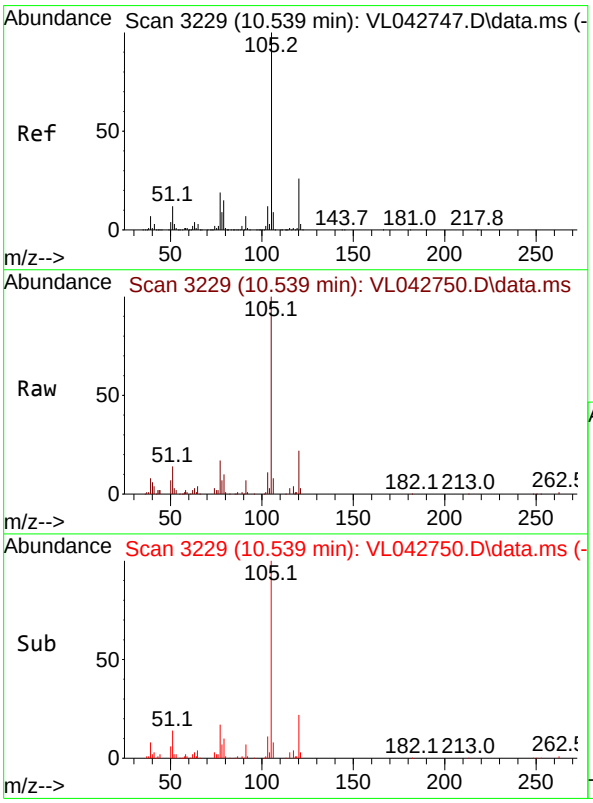
Ion	Ratio	Lower	Upper
104	100		
78	55.8	41.5	62.3
103	47.0	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

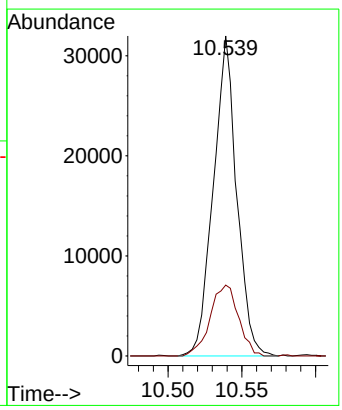
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

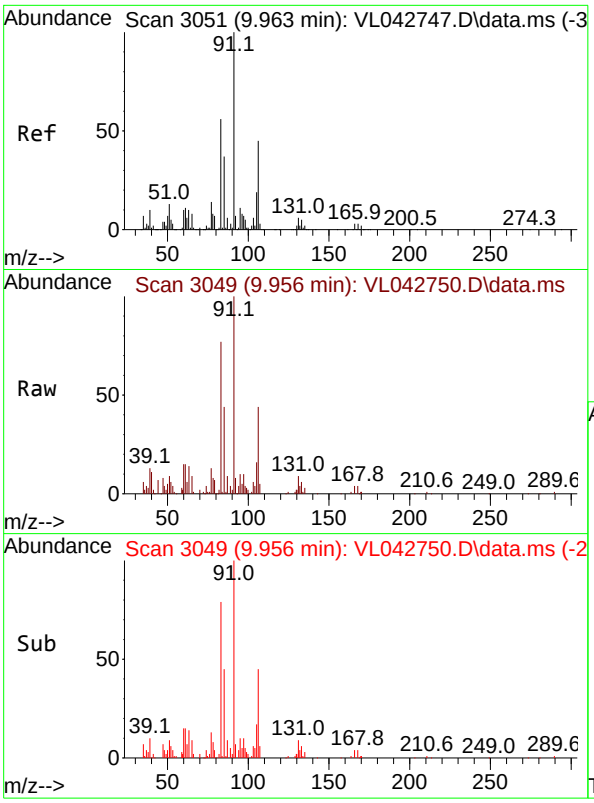


#62
Isopropylbenzene
Concen: 0.463 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 35189

Ion	Ratio	Lower	Upper
105	100		
120	26.9	20.5	30.7

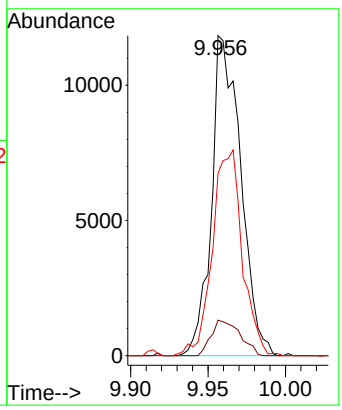




#63
1,1,2,2-Tetrachloroethane
Concen: 0.463 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 83 Resp: 1554

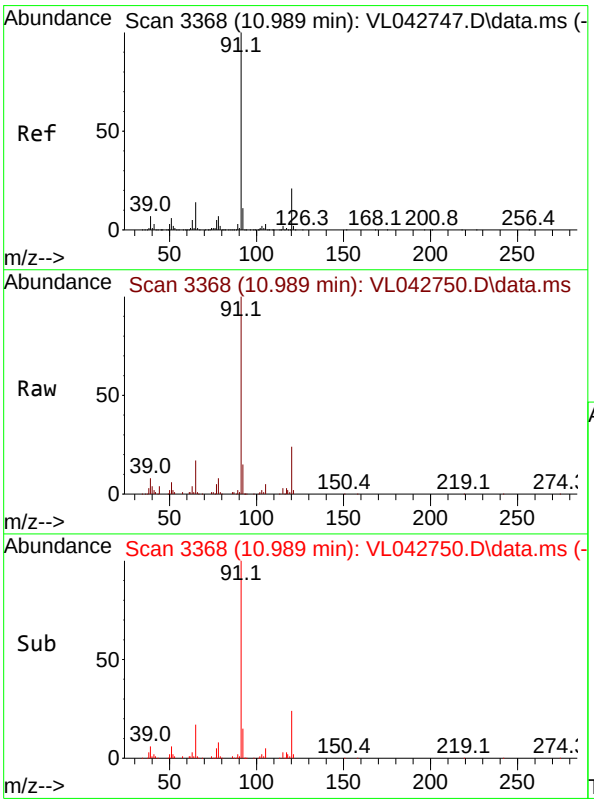
Ion	Ratio	Lower	Upper
83	100		
131	11.0	5.0	15.0
85	66.1	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

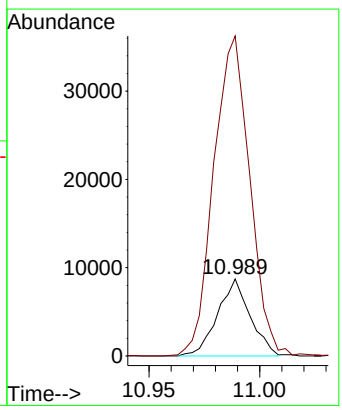
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

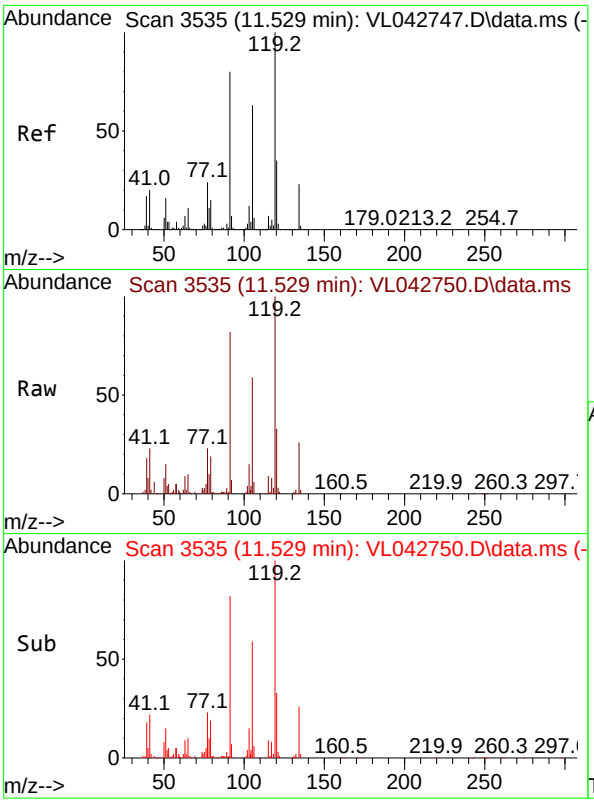


#64
n-propylbenzene
Concen: 0.450 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:120 Resp: 8924

Ion	Ratio	Lower	Upper
120	100		
91	464.1	372.7	559.1

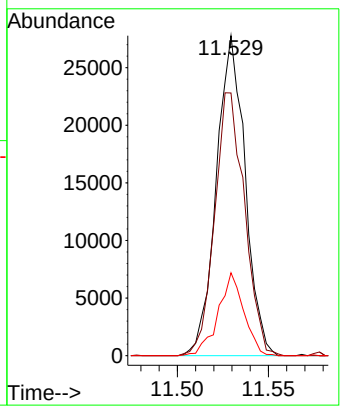




#65
tert-Butylbenzene
Concen: 0.453 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:119 Resp: 3056

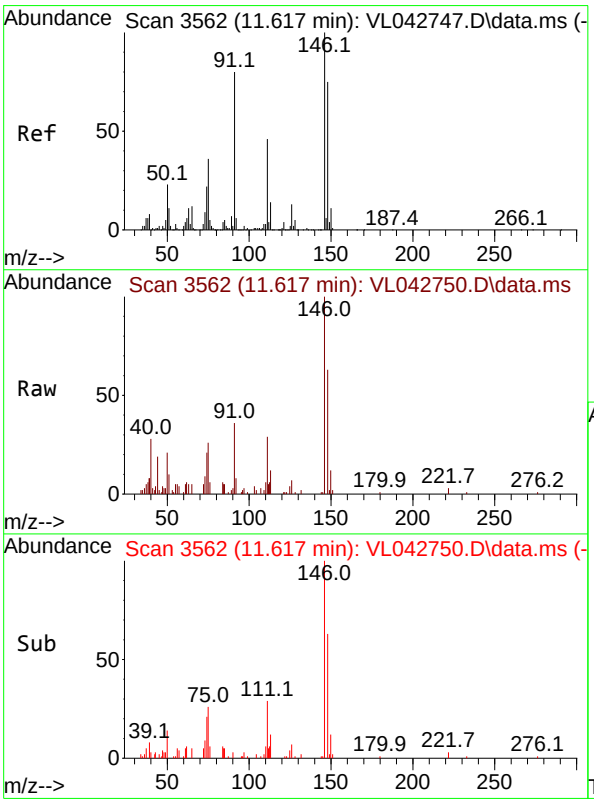
Ion	Ratio	Lower	Upper
119	100		
91	85.1	64.0	96.0
134	23.1	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

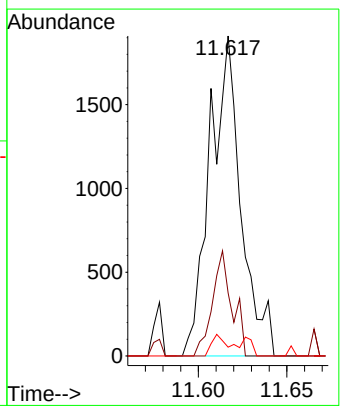
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

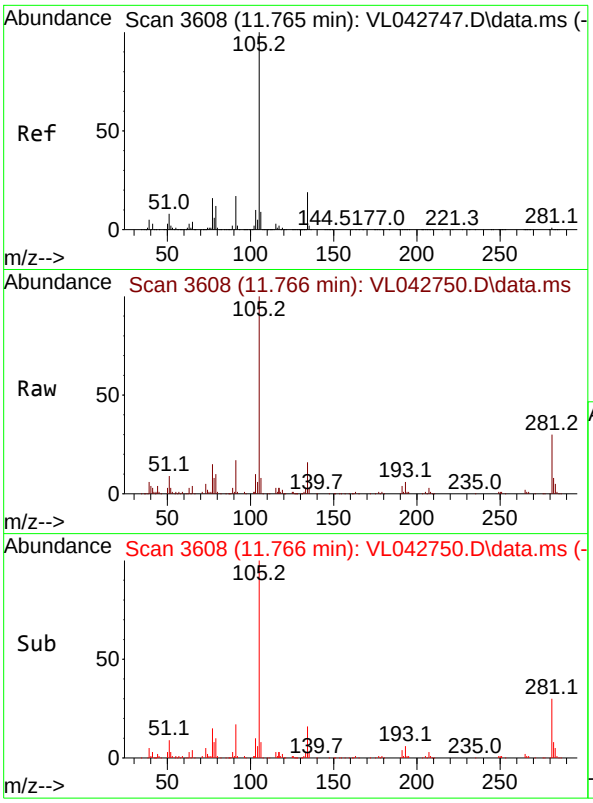


#66
Benzyl Chloride
Concen: 0.421 ppbv m
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 2336

Ion	Ratio	Lower	Upper
91	100		
126	20.8	14.4	21.6
128	5.6	5.2	7.8

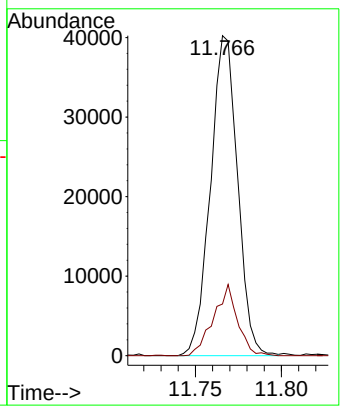




#67
sec-Butylbenzene
Concen: 0.460 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 4416

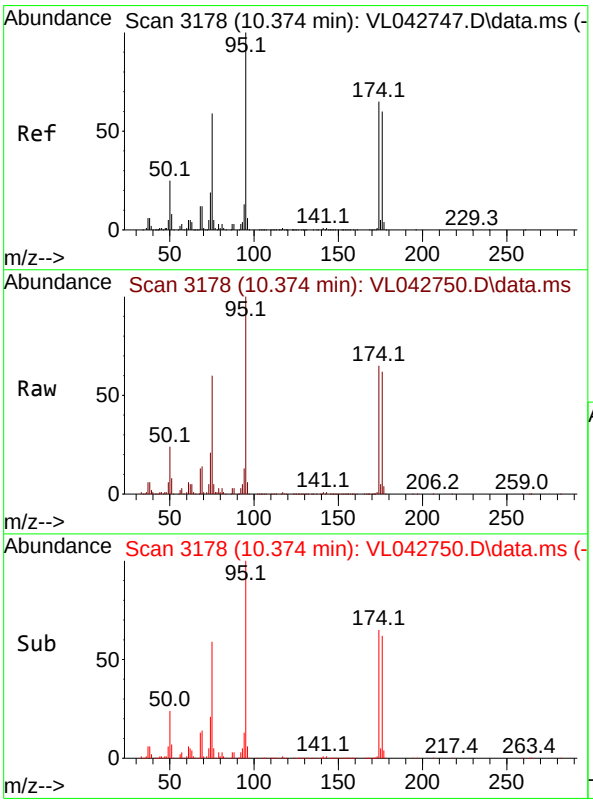
Ion	Ratio	Lower	Upper
105	100		
134	19.6	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

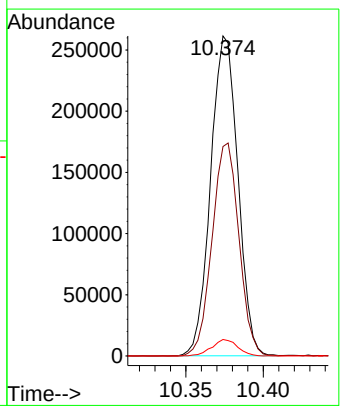
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

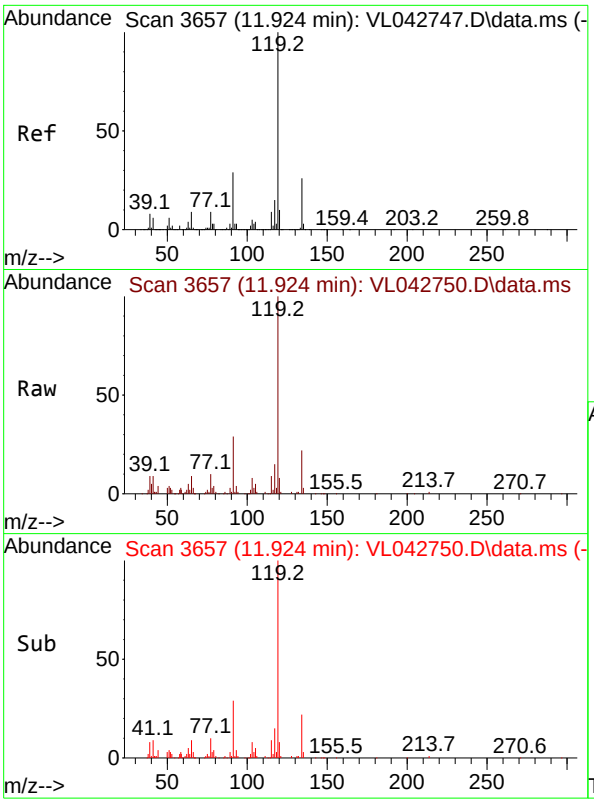


#68
1-Bromo-4-Fluorobenzene
Concen: 9.869 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 95 Resp: 319353

Ion	Ratio	Lower	Upper
95	100		
174	65.8	53.8	80.6
175	4.9	4.0	6.0

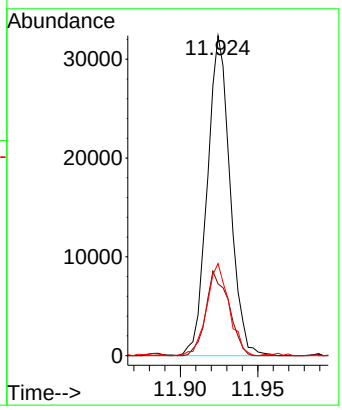




#69
p-Isopropyltoluene
Concen: 0.423 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:119 Resp: 3310

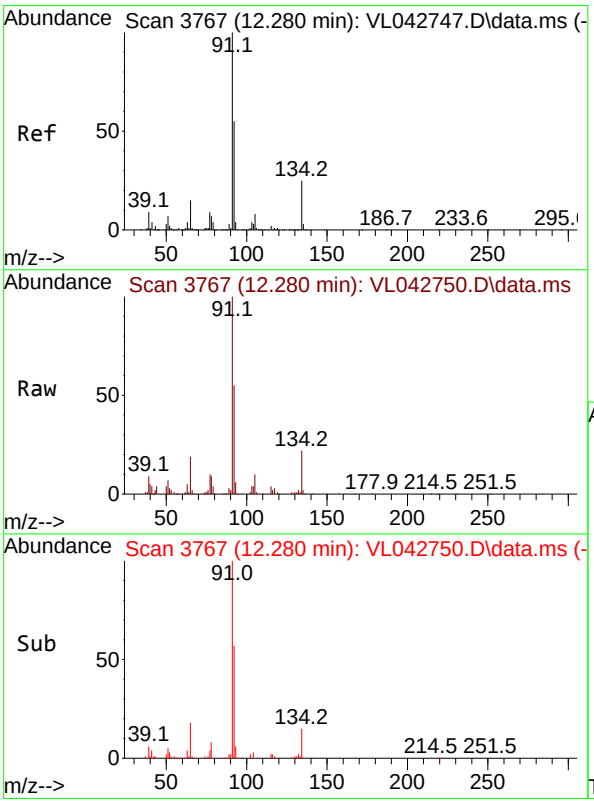
Ion	Ratio	Lower	Upper
119	100		
134	26.8	20.6	31.0
91	28.8	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

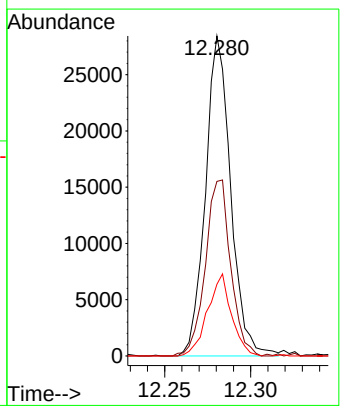
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

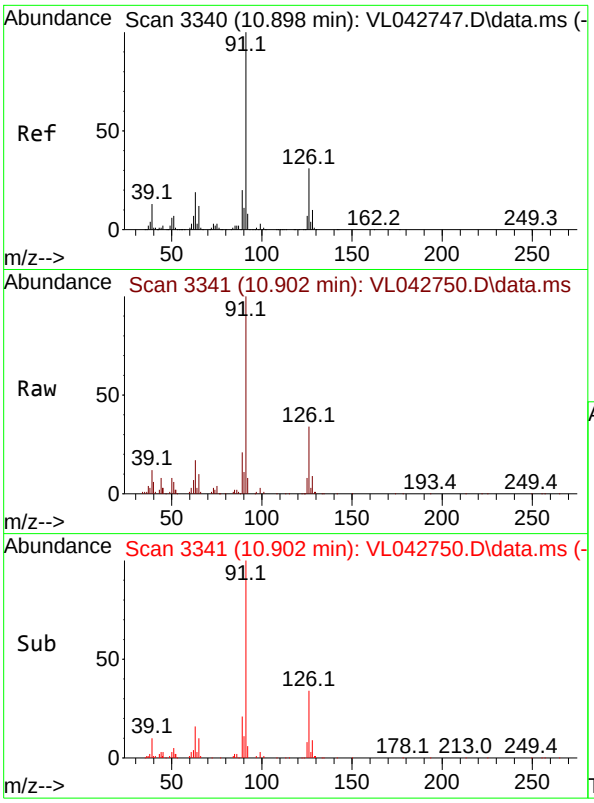


#70
n-Butylbenzene
Concen: 0.384 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 29048

Ion	Ratio	Lower	Upper
91	100		
92	55.5	43.4	65.2
134	24.3	19.6	29.4

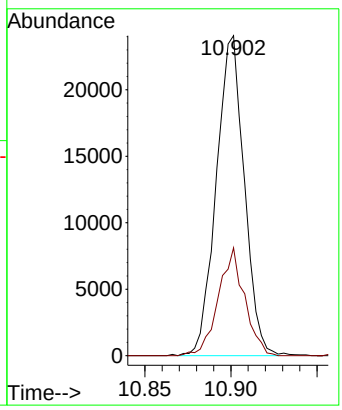




#71
2-Chlorotoluene
Concen: 0.466 ppbv
RT: 10.902 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 2718

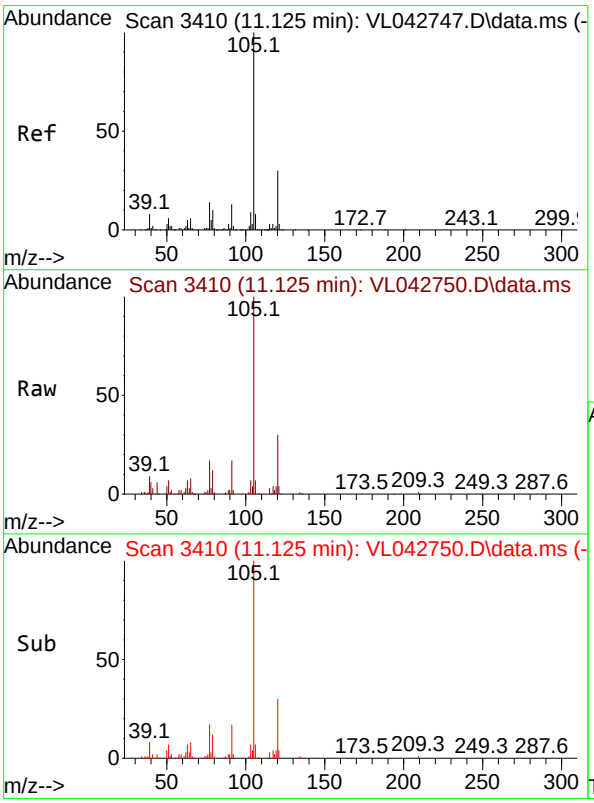
Ion	Ratio	Lower	Upper
91	100		
126	31.7	12.0	48.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

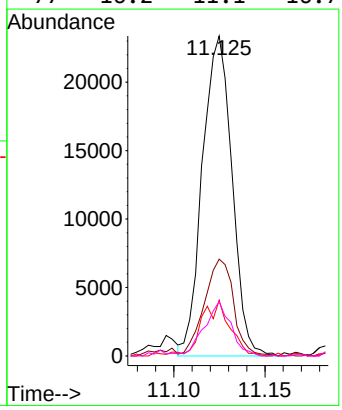
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

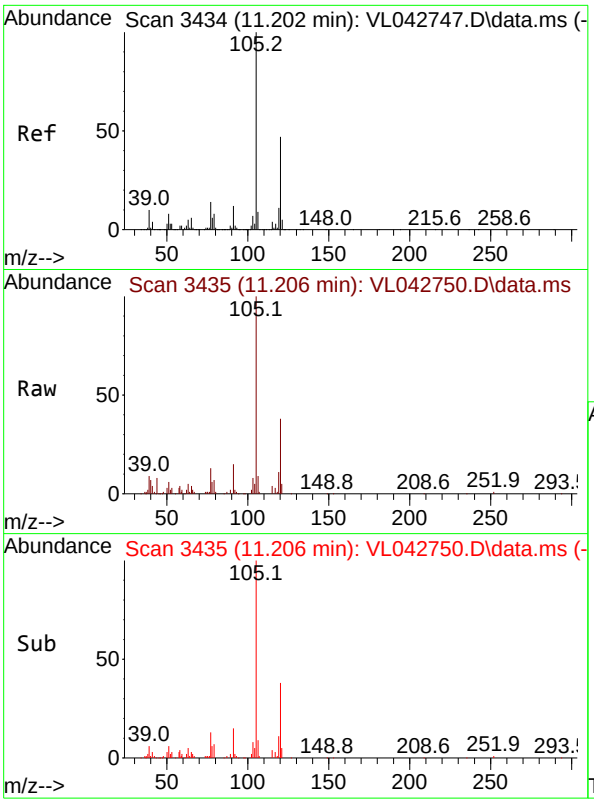


#72
4-Ethyltoluene
Concen: 0.429 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 26395

Ion	Ratio	Lower	Upper
105	100		
120	31.6	24.4	36.6
91	17.0	10.6	15.8#
77	16.2	11.1	16.7

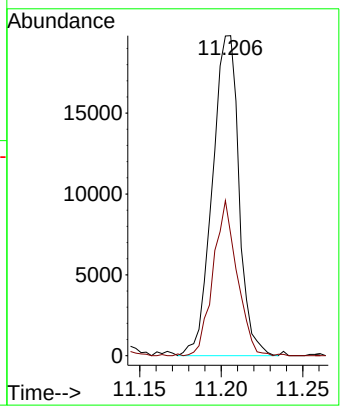




#73
1,3,5-Trimethylbenzene
Concen: 0.442 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 2239

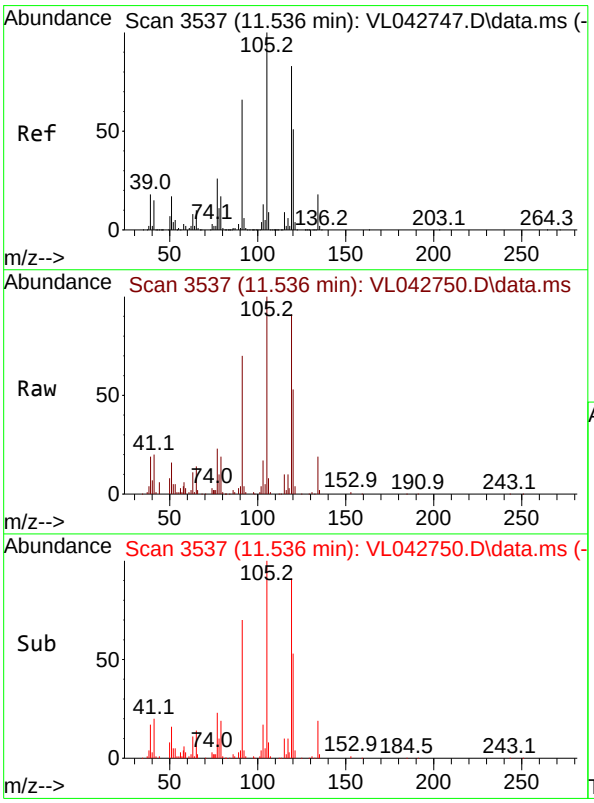
Ion	Ratio	Lower	Upper
105	100		
120	37.5	37.8	56.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

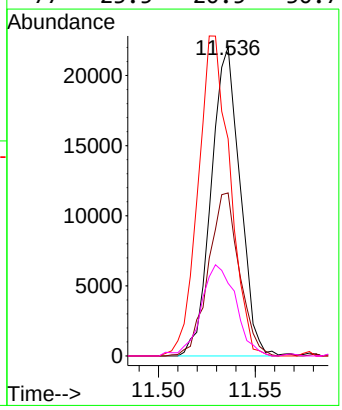
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

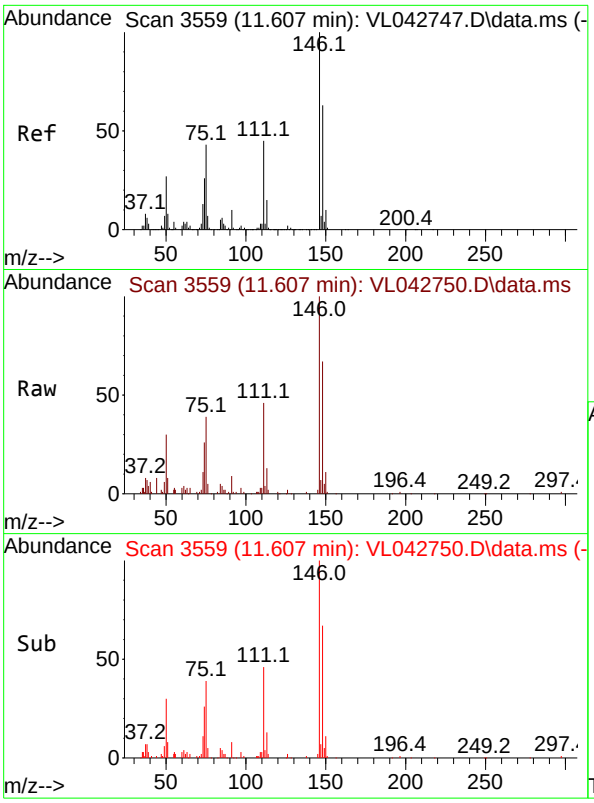


#74
1,2,4-Trimethylbenzene
Concen: 0.412 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 22772

Ion	Ratio	Lower	Upper
105	100		
120	52.7	40.8	61.2
91	70.3	53.0	79.4
77	23.5	20.5	30.7

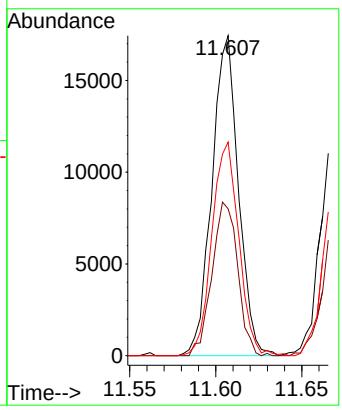




#75
1,3-Dichlorobenzene
Concen: 0.482 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:146 Resp: 1868

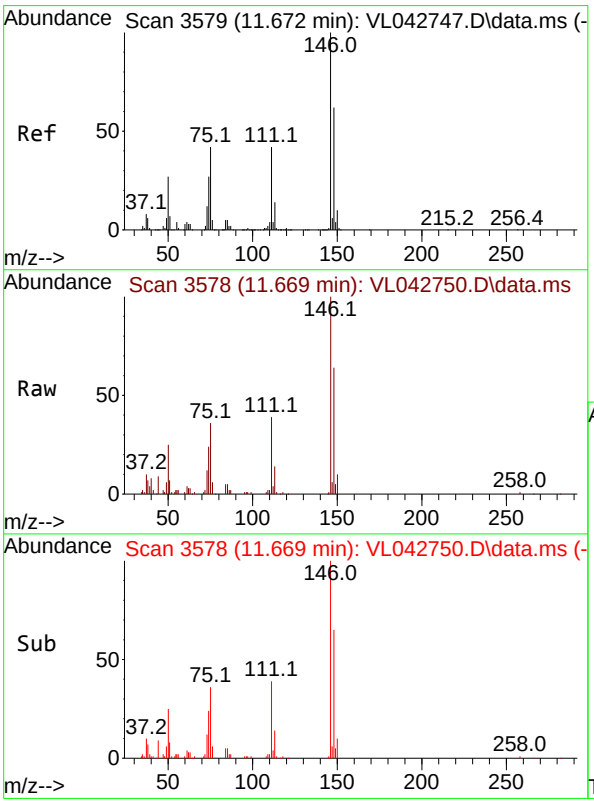
Ion	Ratio	Lower	Upper
146	100		
111	46.6	22.7	68.0
148	67.7	31.9	95.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

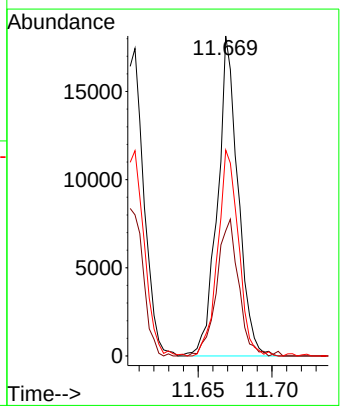
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

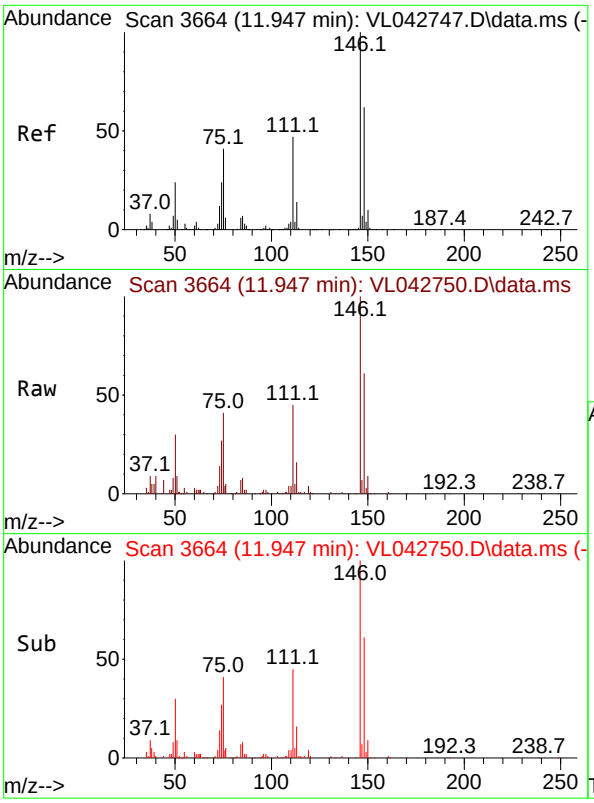


#76
1,4-Dichlorobenzene
Concen: 0.465 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:146 Resp: 17616

Ion	Ratio	Lower	Upper
146	100		
111	45.9	21.4	64.2
148	65.4	32.1	96.3

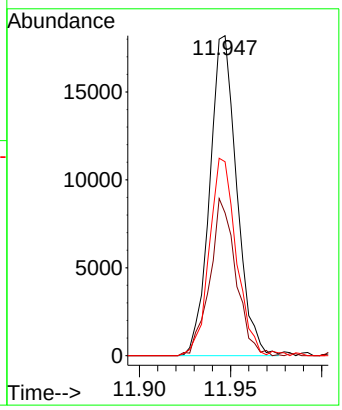




#77
1,2-Dichlorobenzene
Concen: 0.494 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:146 Resp: 1879

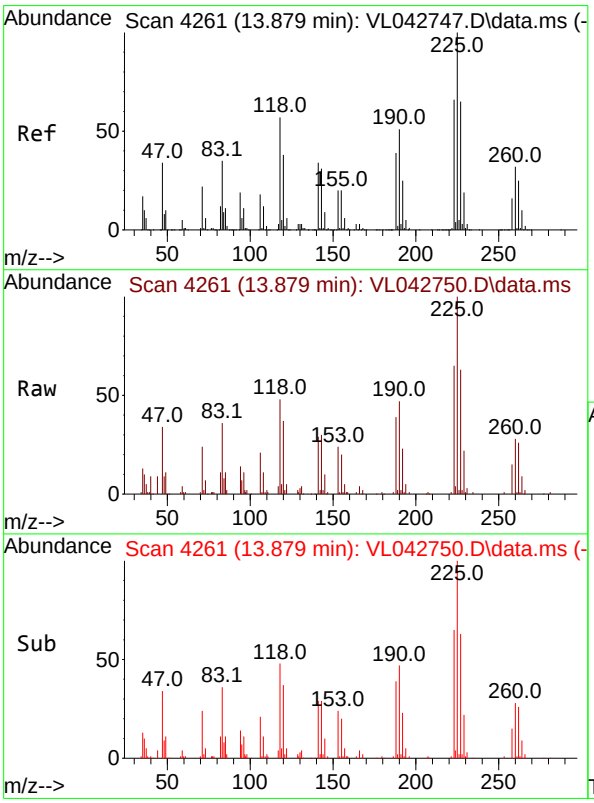
Ion	Ratio	Lower	Upper
146	100		
111	47.9	23.7	71.1
148	62.3	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

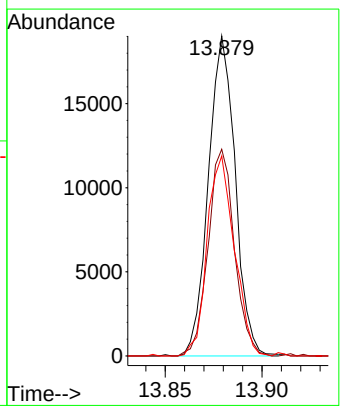
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

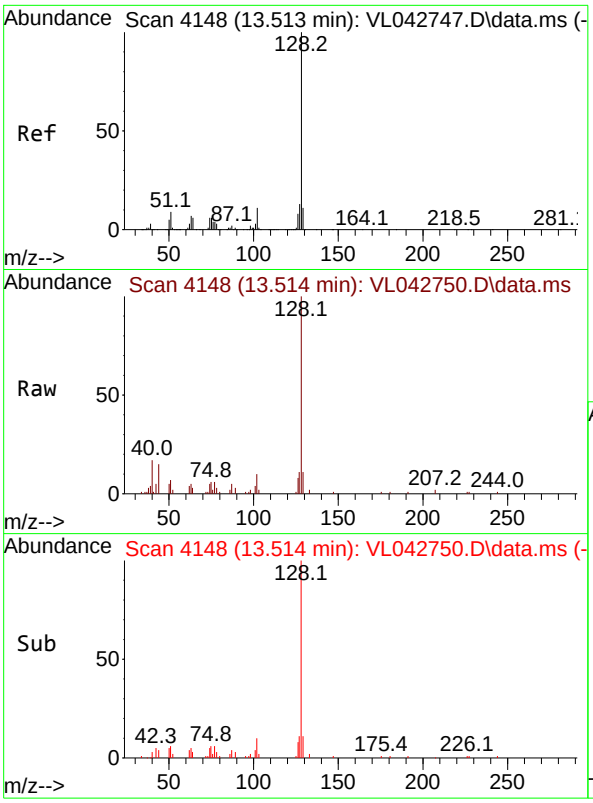


#78
Hexachloro-1,3-Butadiene
Concen: 0.532 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:225 Resp: 18330

Ion	Ratio	Lower	Upper
225	100		
223	63.7	50.7	76.1
227	63.7	50.5	75.7

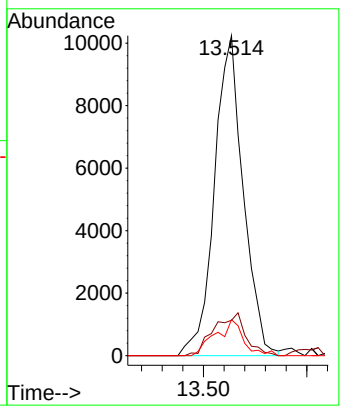




#79
Naphthalene
Concen: 0.592 ppbv
RT: 13.514 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:128 Resp: 991

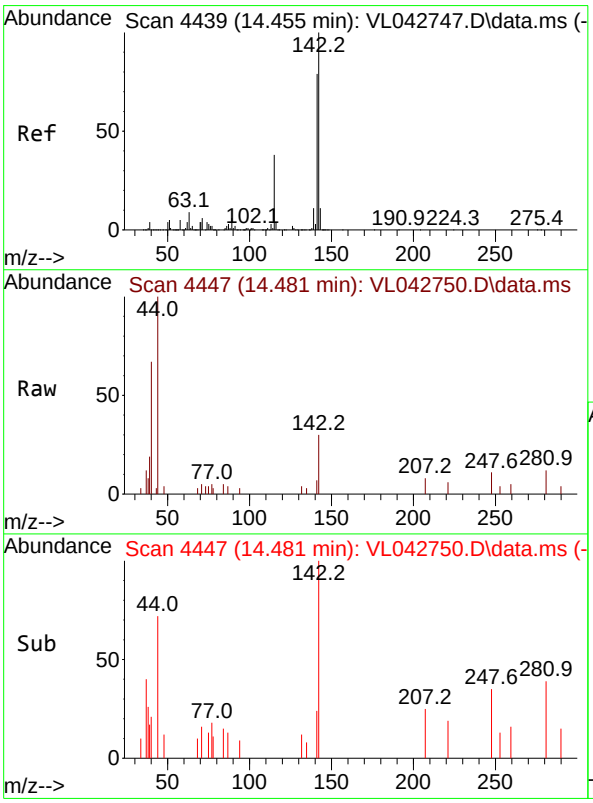
Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.5	15.7
129	11.2	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

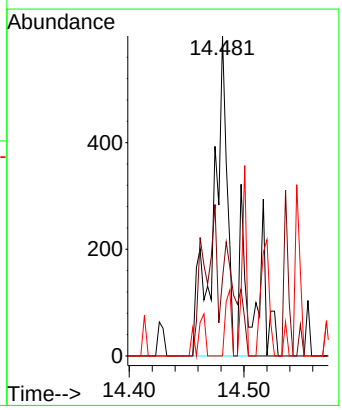
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

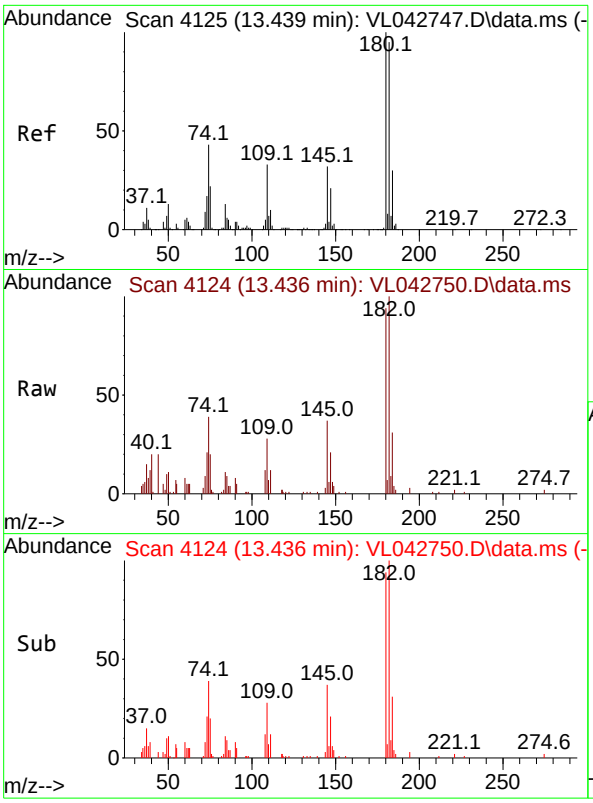


#80
Naphthalene,2-methyl-
Concen: 1.148 ppbv
RT: 14.481 min Scan# 4447
Delta R.T. 0.026 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:142 Resp: 731

Ion	Ratio	Lower	Upper
142	100		
141	54.6	65.8	98.8#
115	5.2	31.2	46.8#

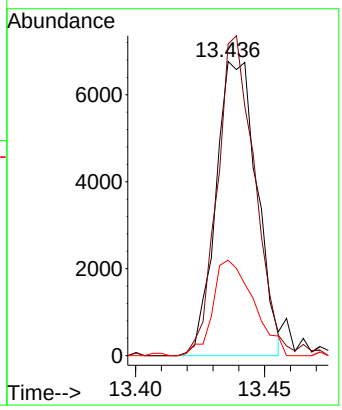




#81
1,2,4-Trichlorobenzene
Concen: 0.645 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:180 Resp: 745

Ion	Ratio	Lower	Upper
180	100		
182	100.9	76.2	114.2
184	33.0	24.8	37.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042752.D
Acq On : 23 Jul 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 04:59:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	151834	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	432802	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	387541	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	302164	9.845	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.500%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	376	0.047	ppbv	# 68
32) 1,1,1-Trichloroethane	3.366	97	1149m	0.035	ppbv	
35) Carbon Tetrachloride	3.755	117	1233m	0.038	ppbv	
38) Trichloroethene	4.535	130	664m	0.034	ppbv	
52) Tetrachloroethene	8.215	164	654m	0.038	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.959	83	1285m	0.040	ppbv	

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

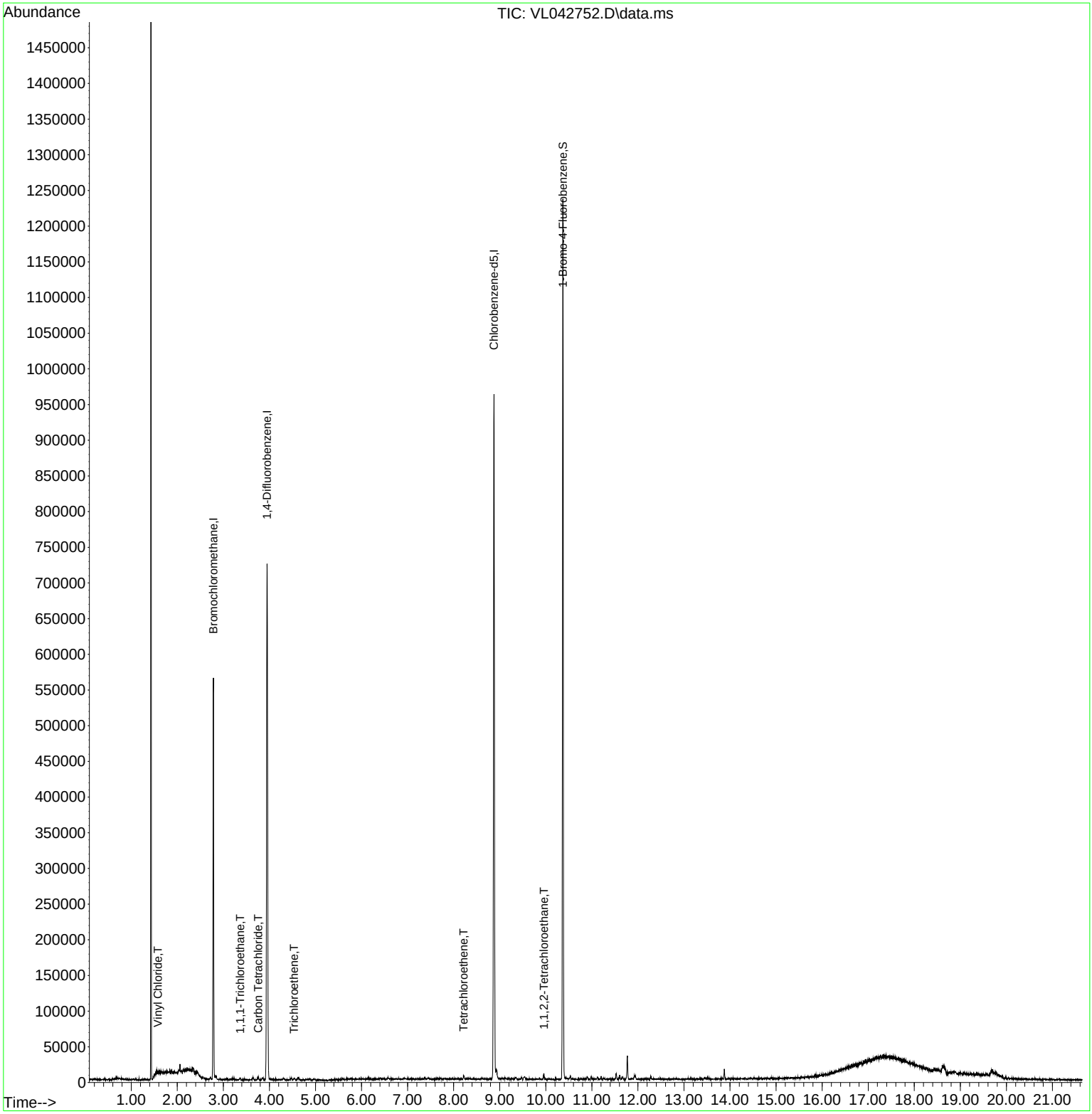
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042752.D
Acq On : 23 Jul 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

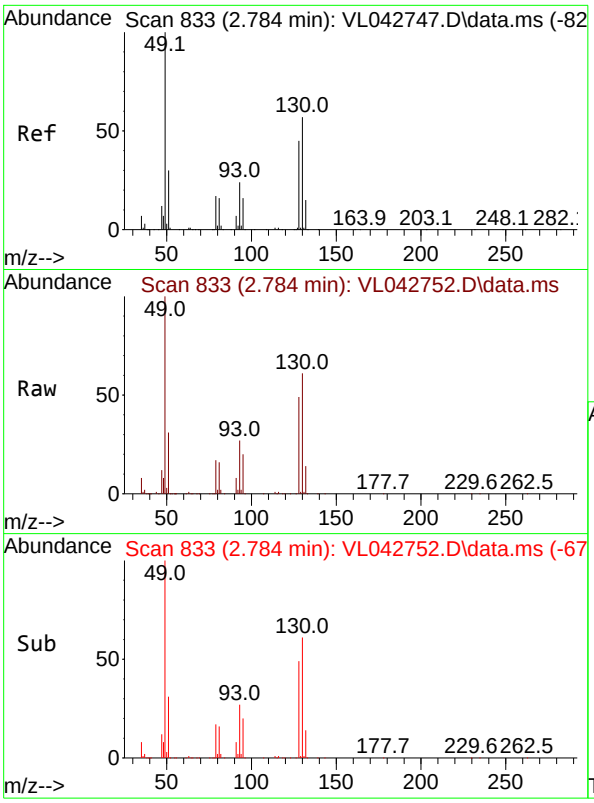
Quant Time: Jul 24 04:59:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

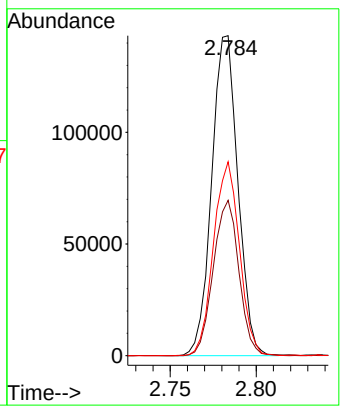




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 49 Resp: 15183

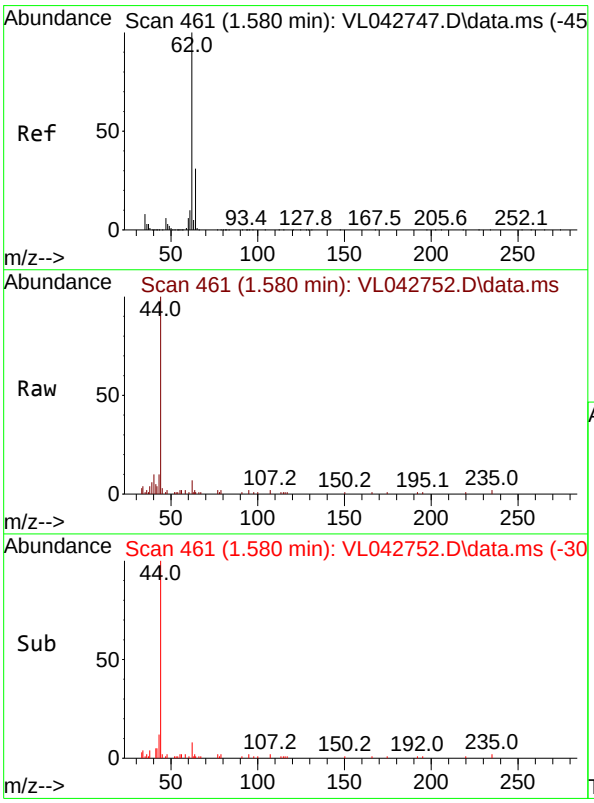
Ion	Ratio	Lower	Upper
49	100		
128	47.5	23.6	71.0
130	60.2	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

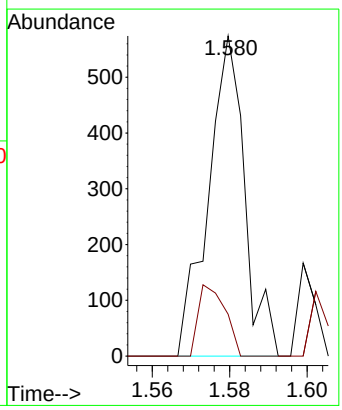
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

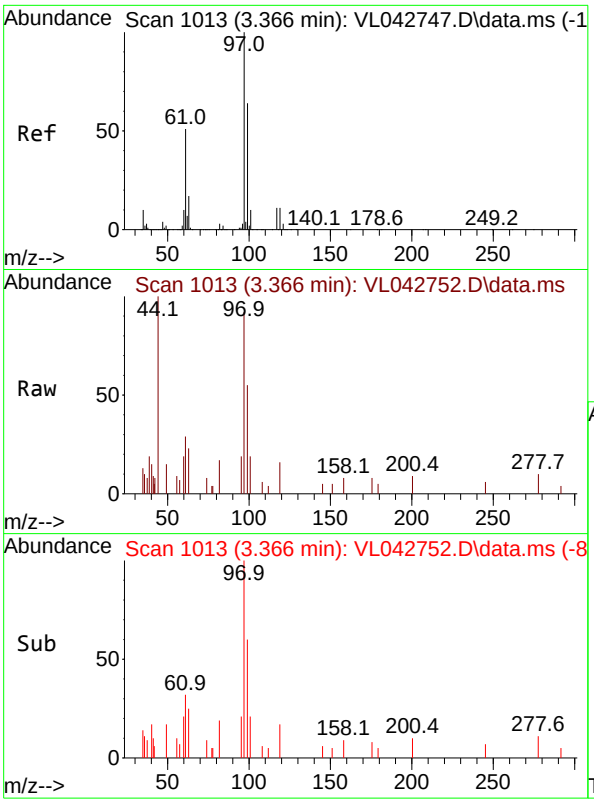


#5
Vinyl Chloride
Concen: 0.047 ppbv
RT: 1.580 min Scan# 461
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 62 Resp: 376

Ion	Ratio	Lower	Upper
62	100		
64	13.1	24.5	36.7#

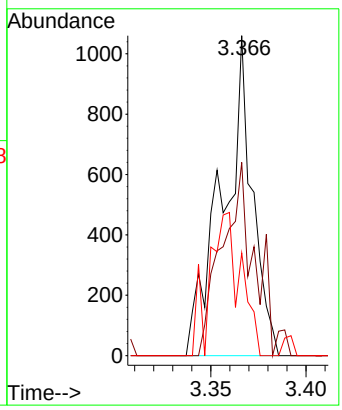




#32
1,1,1-Trichloroethane
Concen: 0.035 ppbv m
RT: 3.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 97 Resp: 114

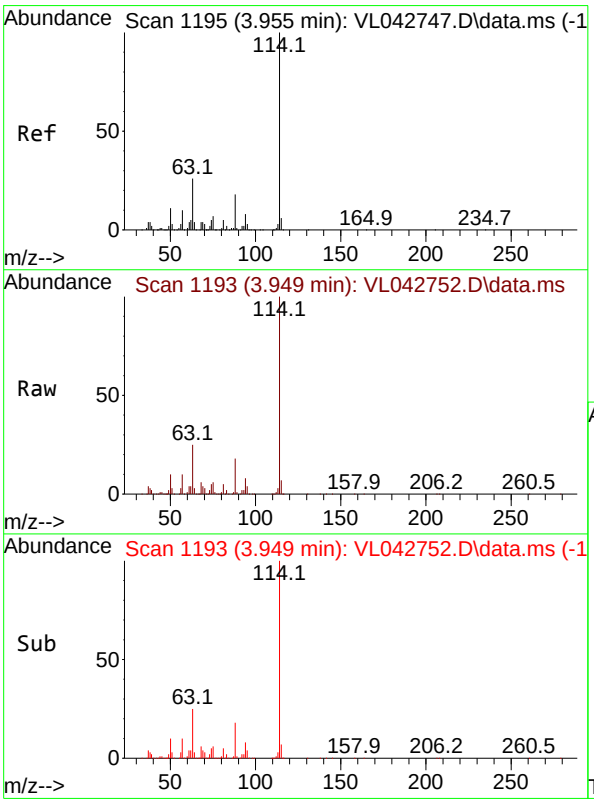
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.6#
61	48.9	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

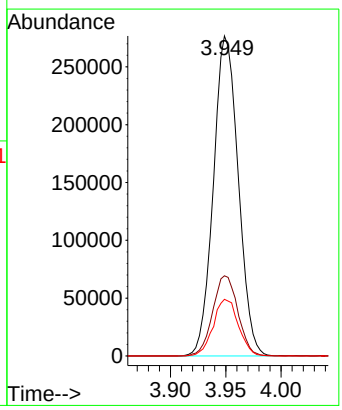
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

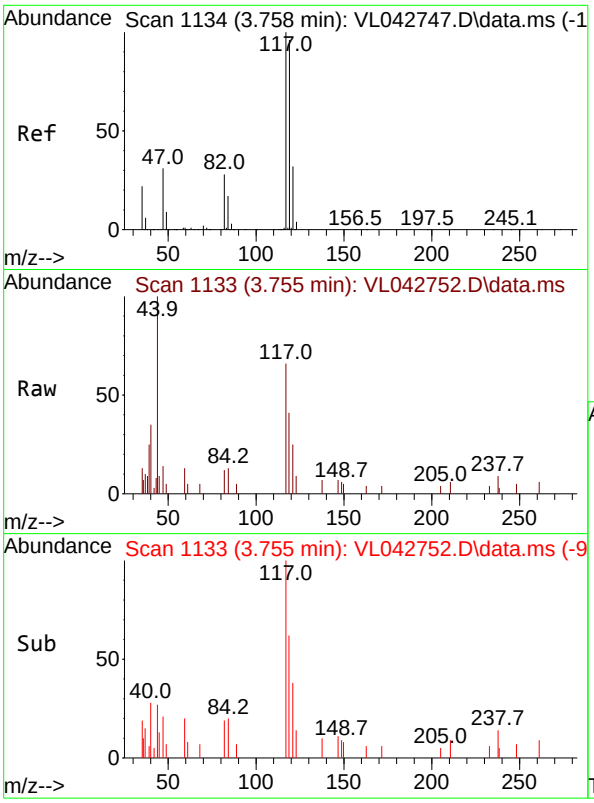


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:114 Resp: 432802

Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.5	30.7
88	17.9	14.0	21.0

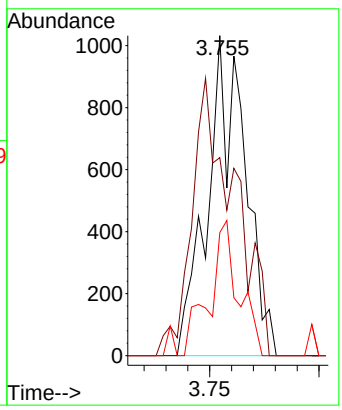




#35
Carbon Tetrachloride
Concen: 0.038 ppbv m
RT: 3.755 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:117 Resp: 123

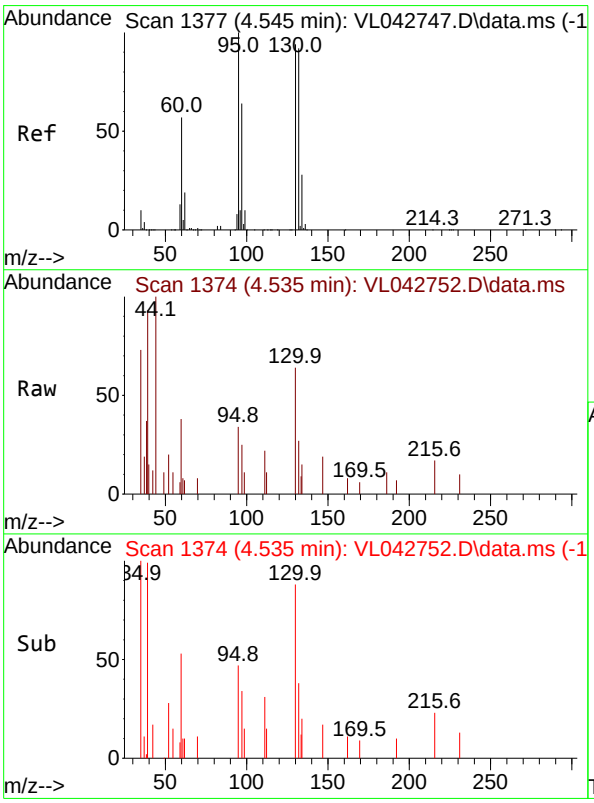
Ion	Ratio	Lower	Upper
117	100		
119	61.9	77.1	115.7#
121	38.5	25.5	38.3#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

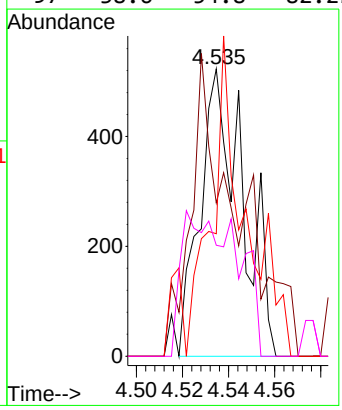
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

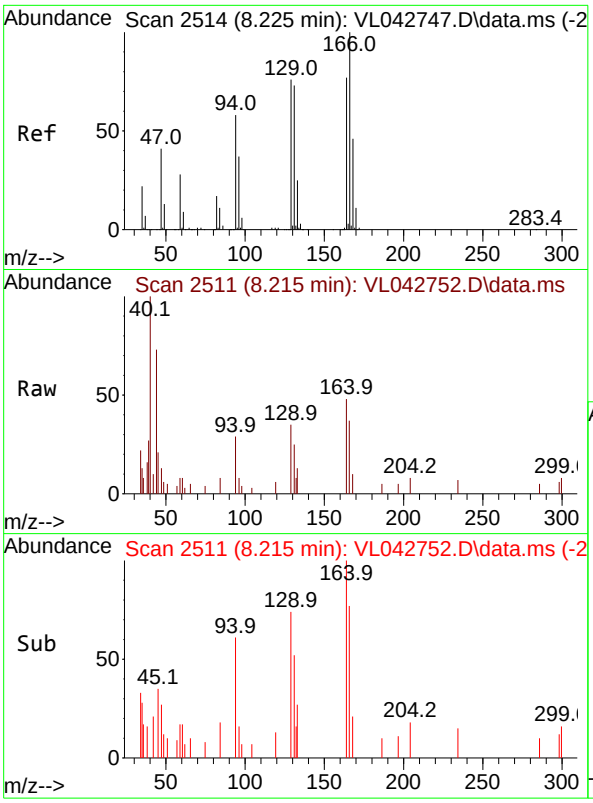


#38
Trichloroethene
Concen: 0.034 ppbv m
RT: 4.535 min Scan# 1374
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:130 Resp: 664

Ion	Ratio	Lower	Upper
130	100		
95	53.3	85.4	128.2#
132	42.6	78.2	117.2#
97	38.6	54.8	82.2#

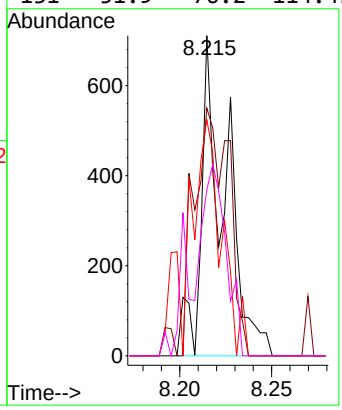




#52
Tetrachloroethene
Concen: 0.038 ppbv m
RT: 8.215 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:164 Resp: 65

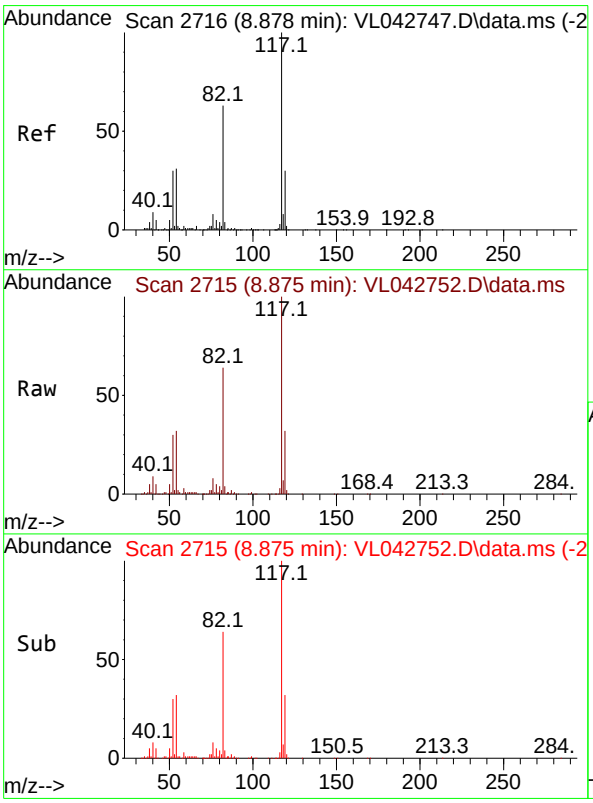
Ion	Ratio	Lower	Upper
164	100		
166	77.4	104.0	156.0#
129	73.7	79.2	118.8#
131	51.9	76.2	114.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

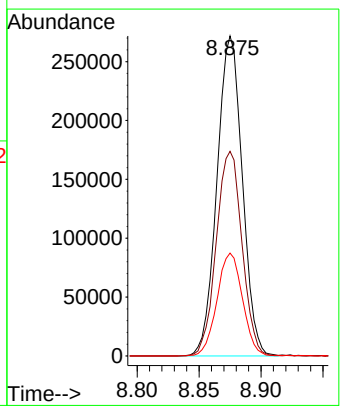
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

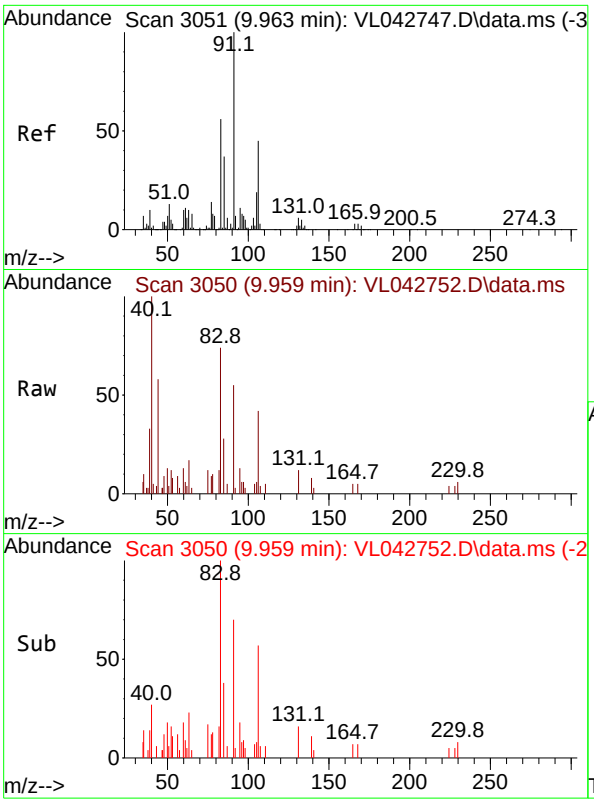


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:117 Resp: 387541

Ion	Ratio	Lower	Upper
117	100		
82	65.0	53.3	79.9
119	32.6	25.8	38.6

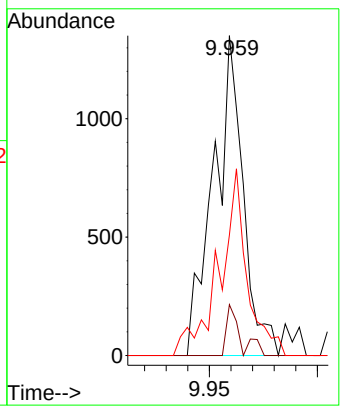




#63
1,1,2,2-Tetrachloroethane
Concen: 0.040 ppbv m
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 83 Resp: 128

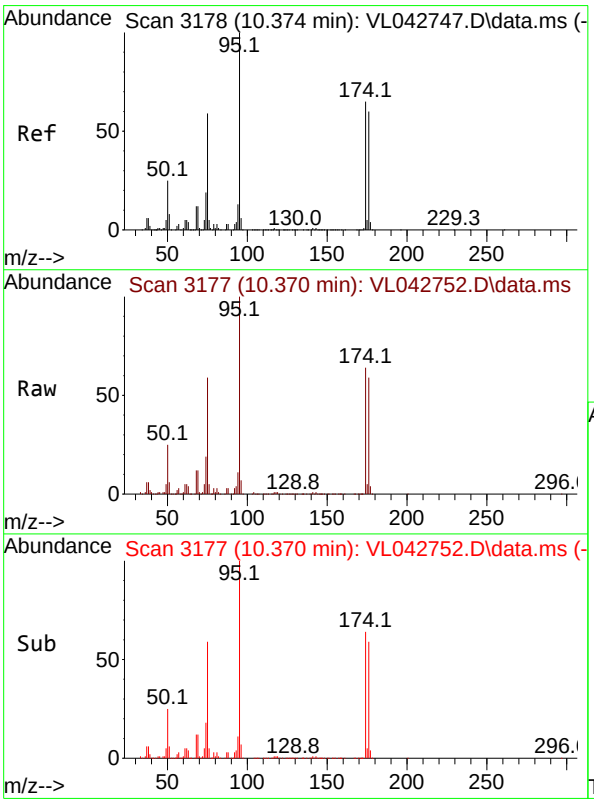
Ion	Ratio	Lower	Upper
83	100		
131	7.5	5.0	15.0
85	54.6	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

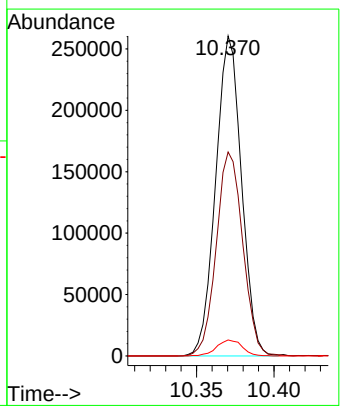
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.845 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 95 Resp: 302164

Ion	Ratio	Lower	Upper
95	100		
174	65.6	53.8	80.6
175	5.0	4.0	6.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042753.D
Acq On : 23 Jul 2025 12:26
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 05:00:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	150331	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	427438	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	385223	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	315293	10.335	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	277045	13.938	ppbv	98
3) Chlorodifluoromethane	1.473	51	353451	13.651	ppbv	98
4) Chloromethane	1.531	50	111684	13.889	ppbv	96
5) Vinyl Chloride	1.577	62	98596	12.410	ppbv	96
6) Bromomethane	1.667	94	44144	14.372	ppbv	92
7) Chloroethane	1.703	64	40909	13.327	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	229298	14.028	ppbv	99
9) Propene	1.483	41	129069	13.716	ppbv	99
10) Heptane	4.972	43	368612	14.563	ppbv	99
11) Trichlorofluoromethane	1.874	101	289764	14.143	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	223552	14.358	ppbv	99
13) Ethanol	1.719	45	11145	15.142	ppbv	86
14) Bromoethene	1.780	108	77435	14.047	ppbv	98
15) Acetone	1.832	43	237665	11.449	ppbv	98
16) 1,3-Butadiene	1.606	39	118252	13.355	ppbv	99
17) tert-Butyl alcohol	2.036	59	260587	13.919	ppbv	98
18) 1,1-Dichloroethene	2.030	96	94140	13.382	ppbv	93
19) Isopropyl Alcohol	1.881	45	149463	13.549	ppbv	99
20) Methylene Chloride	2.059	84	82755	12.651	ppbv	97
21) Allyl Chloride	2.094	41	185201	14.476	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	107003	14.160	ppbv	92
23) Vinyl Acetate	2.457	43	413378	16.426	ppbv	99
24) 1,1-Dichloroethane	2.405	63	221175	14.239	ppbv	100
25) Ethyl Acetate	2.829	43	647150	14.084	ppbv	99
26) Hexane	2.819	57	279549	13.869	ppbv	99
27) Carbon Disulfide	2.146	76	260884	15.119	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	156895	16.477	ppbv	97
29) Chloroform	2.842	83	438155	14.067	ppbv	100
30) Cyclohexane	3.849	84	244116	14.280	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	293947	14.192	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	447592	13.796	ppbv	100
34) 2-Butanone	2.551	43	432873	14.297	ppbv	100
35) Carbon Tetrachloride	3.755	117	468957	14.764	ppbv	98
36) Benzene	3.651	78	577153	14.247	ppbv	99
37) 1,2-Dichloroethane	3.211	62	354637	14.533	ppbv	100
38) Trichloroethene	4.541	130	262041	13.416	ppbv	97
39) 1,2-Dichloropropane	4.305	63	211594	14.150	ppbv	99
40) 1,4-Dioxane	4.567	88	98196	13.926	ppbv #	99
41) Tetrahydrofuran	3.046	42	232393	15.278	ppbv	99
42) Bromodichloromethane	4.480	83	486831	15.303	ppbv	99
43) Methyl Methacrylate	4.868	69	231227	16.059	ppbv	98
44) 2,2,4-Trimethylpentane	4.629	57	963867	14.598	ppbv	98
45) t-1,3-Dichloropropene	6.406	75	266194	16.478	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042753.D
Acq On : 23 Jul 2025 12:26
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 05:00:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	329850	16.115	ppbv		99
47) 1,1,2-Trichloroethane	6.567	97	228492	14.335	ppbv		96
48) Dibromochloromethane	7.380	129	397179	15.695	ppbv		99
49) Bromoform	9.477	173	352050	15.955	ppbv		97
50) 4-Methyl-2-Pentanone	5.732	43	594973	15.427	ppbv		100
51) 2-Hexanone	7.428	43	485325	16.467	ppbv	#	100
52) Tetrachloroethene	8.221	164	217184	12.899	ppbv		95
53) Toluene	6.923	91	670142	15.405	ppbv		99
54) 1,2-Dibromoethane	7.645	107	338867	15.019	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.920	131	293384	14.648	ppbv		99
57) Chlorobenzene	8.917	112	522894	14.025	ppbv		98
58) Ethyl Benzene	9.351	91	940159	15.454	ppbv		99
59) m/p-Xylene	9.545	91	1497932m	30.800	ppbv		
60) o-Xylene	9.959	91	730161	15.030	ppbv		100
61) Styrene	9.866	104	343429	16.805	ppbv		100
62) Isopropylbenzene	10.536	105	1078393	15.049	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.959	83	419734	13.261	ppbv		98
64) n-propylbenzene	10.985	120	286724	15.348	ppbv		97
65) tert-Butylbenzene	11.529	119	954459	14.995	ppbv		98
66) Benzyl Chloride	11.610	91	94218	18.031	ppbv		98
67) sec-Butylbenzene	11.762	105	1327393	14.662	ppbv		99
69) p-Isopropyltoluene	11.921	119	1149418	15.571	ppbv		99
70) n-Butylbenzene	12.277	91	1152207	16.159	ppbv		100
71) 2-Chlorotoluene	10.898	91	838335	15.257	ppbv		99
72) 4-Ethyltoluene	11.121	105	918453	15.830	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	763212	15.977	ppbv		100
74) 1,2,4-Trimethylbenzene	11.532	105	827222	15.873	ppbv		97
75) 1,3-Dichlorobenzene	11.604	146	539284	14.761	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	542998	15.188	ppbv		100
77) 1,2-Dichlorobenzene	11.943	146	516714	14.390	ppbv		98
78) Hexachloro-1,3-Butadiene	13.876	225	432138	13.296	ppbv		99
79) Naphthalene	13.507	128	876734	15.265	ppbv		99
80) Naphthalene,2-methyl-	14.452	142	456529	15.438	ppbv		98
81) 1,2,4-Trichlorobenzene	13.436	180	490575	15.200	ppbv		99

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

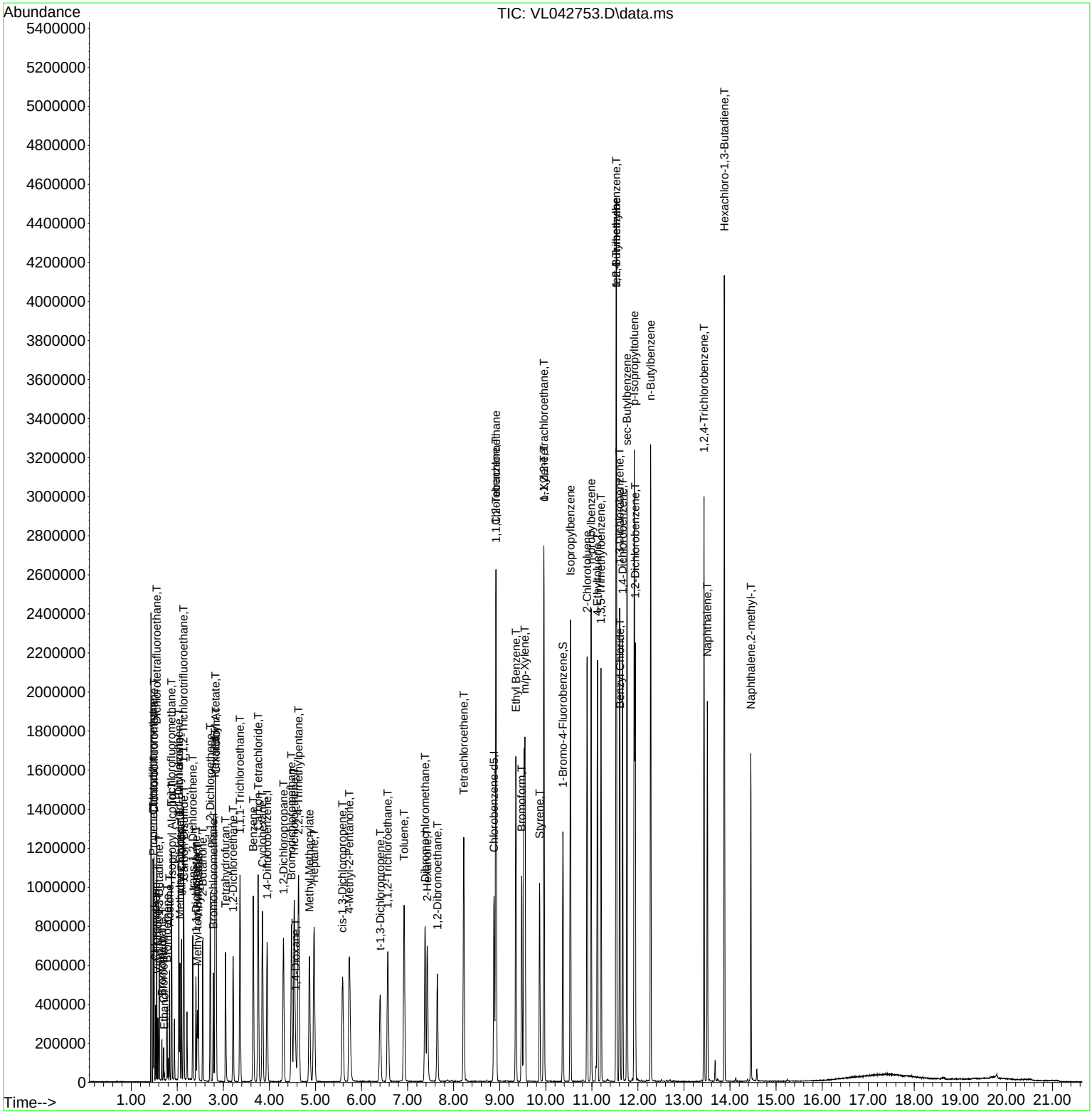
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042753.D
Acq On : 23 Jul 2025 12:26
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

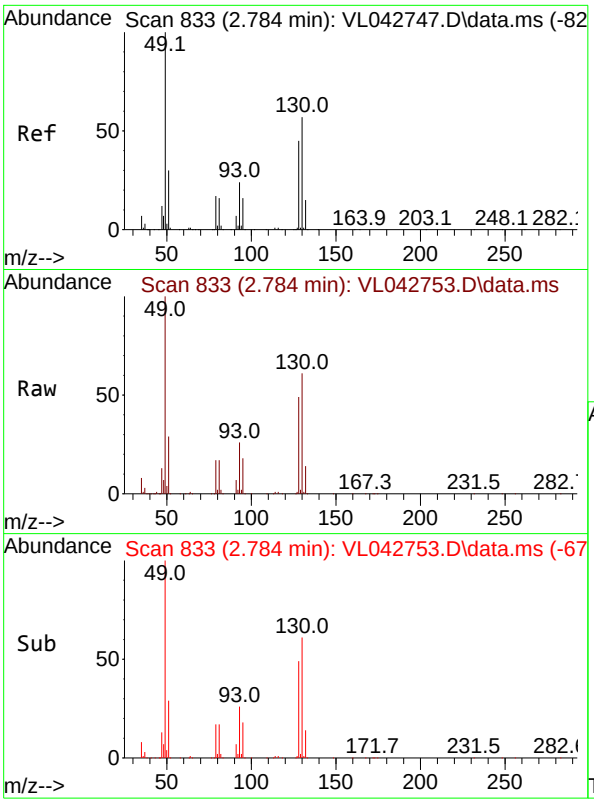
Quant Time: Jul 24 05:00:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

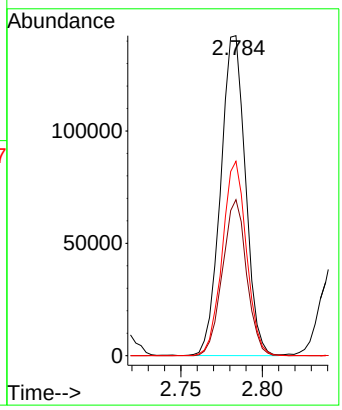




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 49 Resp: 15033

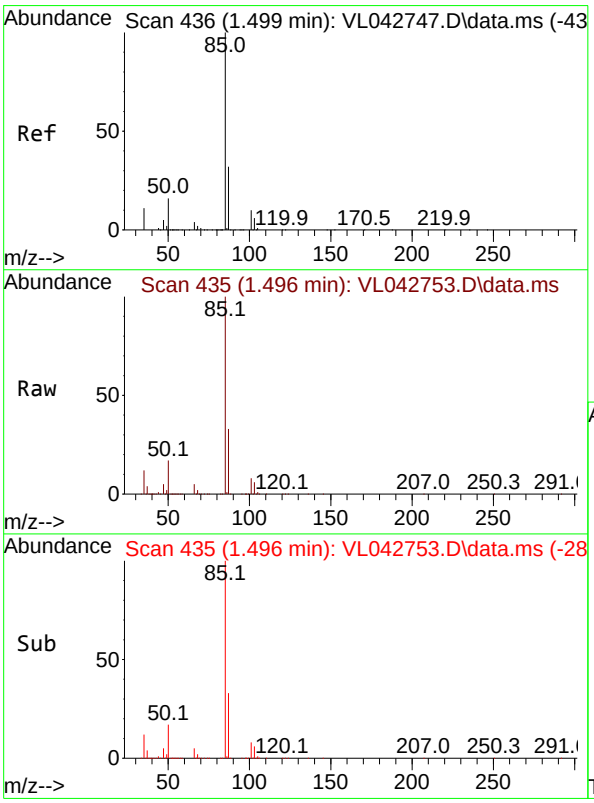
Ion	Ratio	Lower	Upper
49	100		
128	47.4	23.6	71.0
130	59.2	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

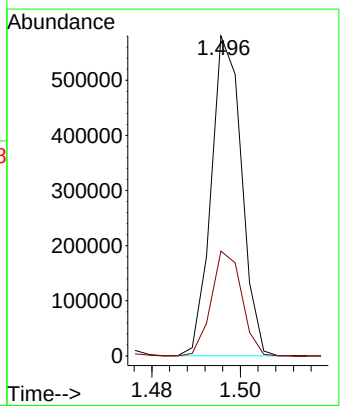
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

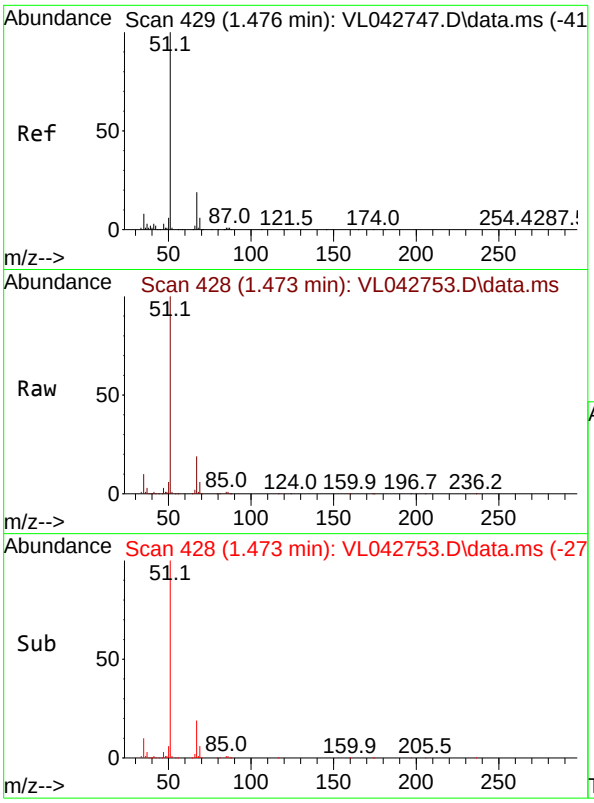


#2
Dichlorodifluoromethane
Concen: 13.938 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 85 Resp: 277045

Ion	Ratio	Lower	Upper
85	100		
87	32.7	25.4	38.2

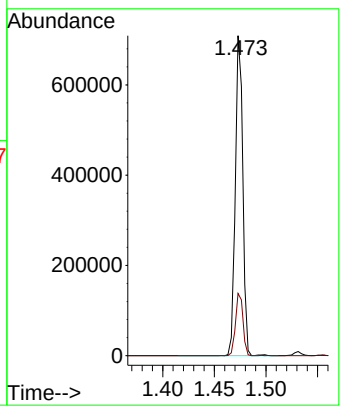




#3
Chlorodifluoromethane
Concen: 13.651 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 51 Resp: 35345

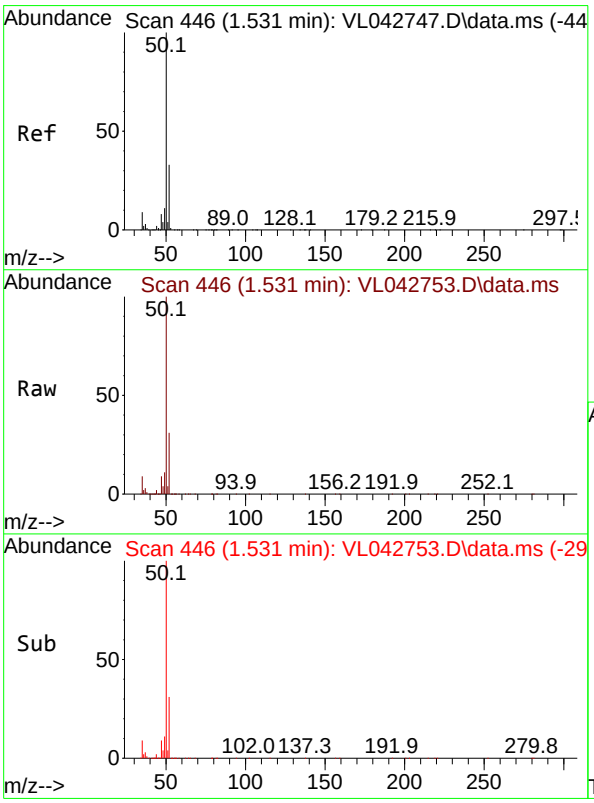
Ion	Ratio	Lower	Upper
51	100		
67	19.6	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

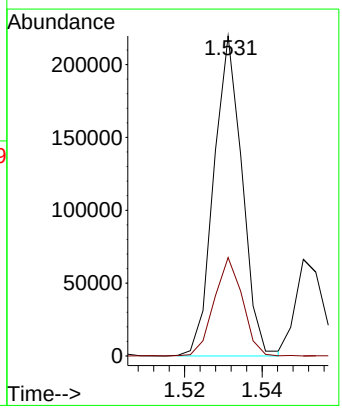
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

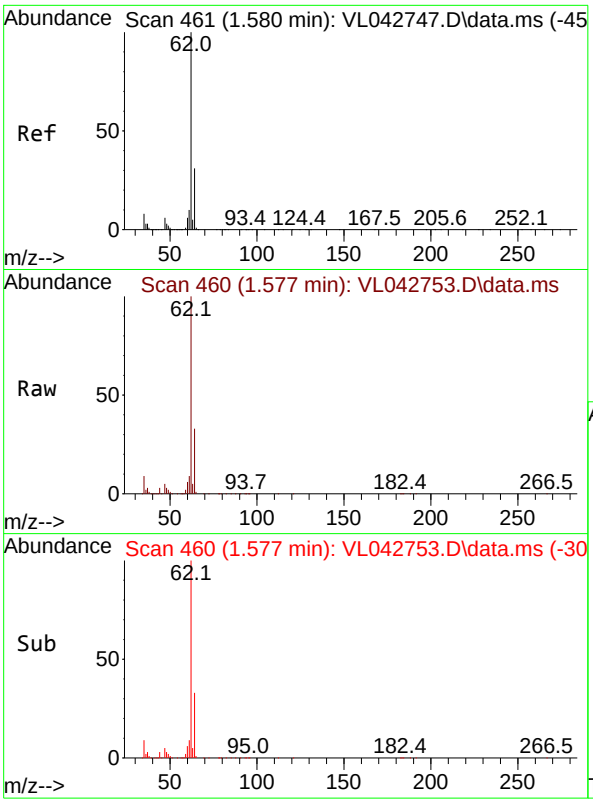


#4
Chloromethane
Concen: 13.889 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 50 Resp: 111684

Ion	Ratio	Lower	Upper
50	100		
52	30.8	26.6	40.0

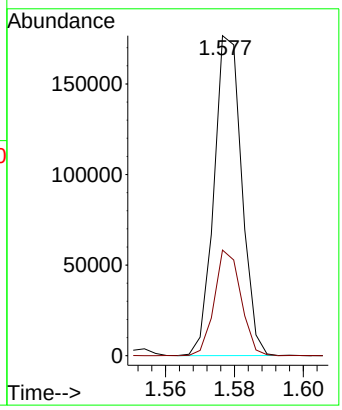




#5
Vinyl Chloride
Concen: 12.410 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 62 Resp: 9859

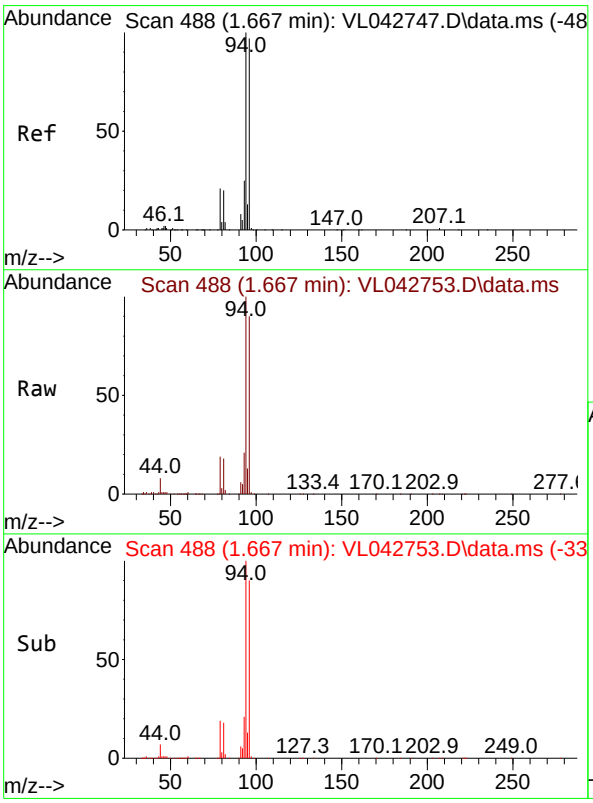
Ion	Ratio	Lower	Upper
62	100		
64	33.0	24.5	36.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

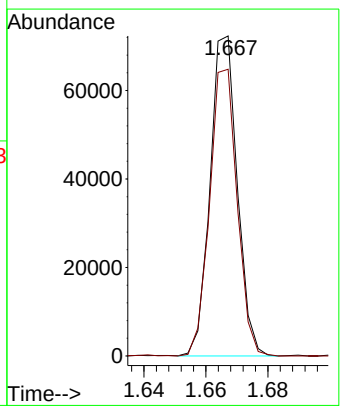
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

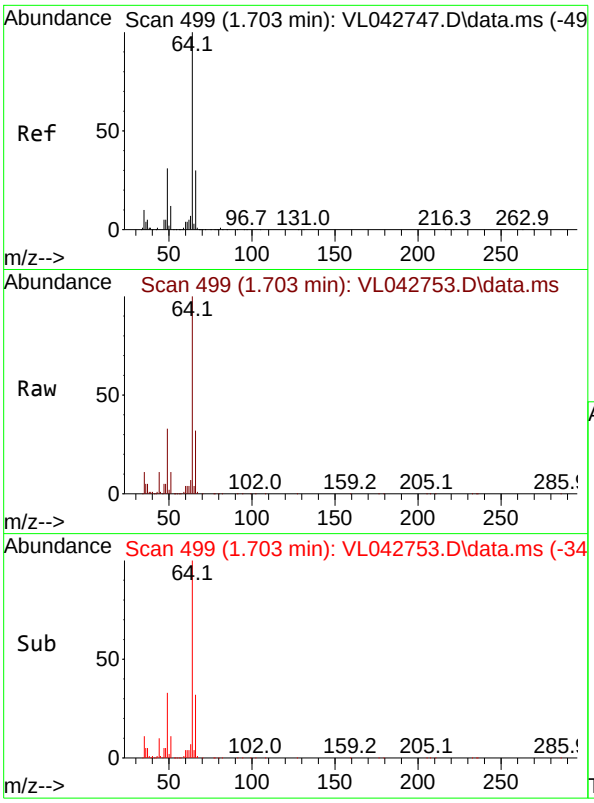


#6
Bromomethane
Concen: 14.372 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 94 Resp: 44144

Ion	Ratio	Lower	Upper
94	100		
96	89.6	77.6	116.4

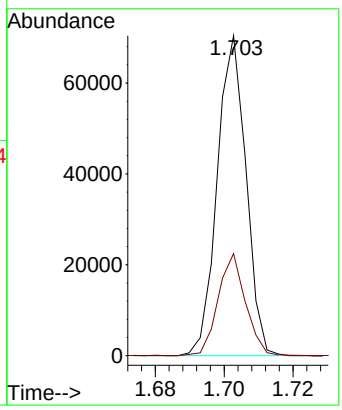




#7
Chloroethane
Concen: 13.327 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 64 Resp: 4090

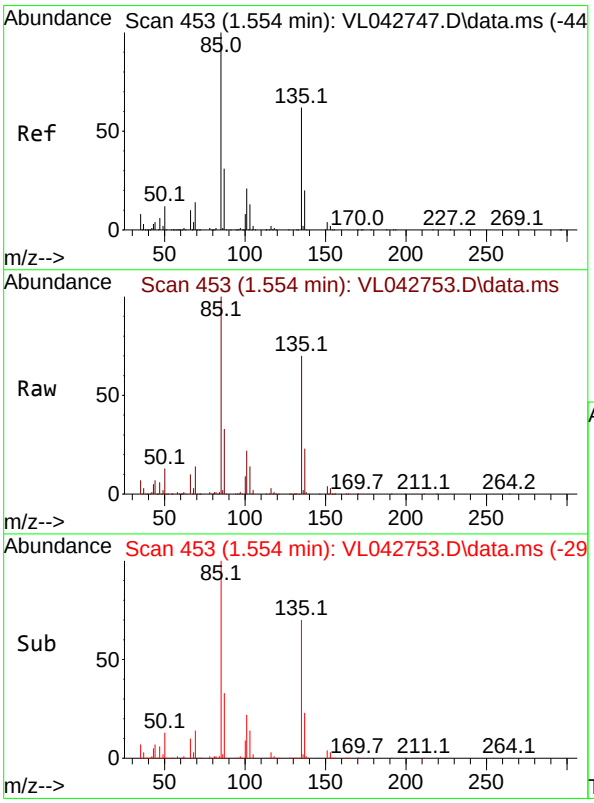
Ion	Ratio	Lower	Upper
64	100		
66	31.9	24.1	36.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

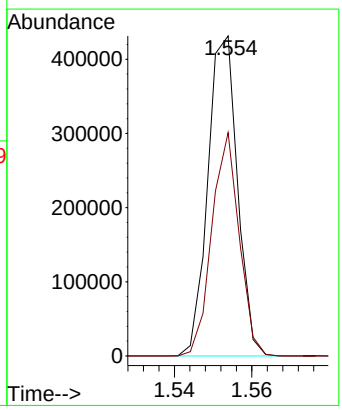
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

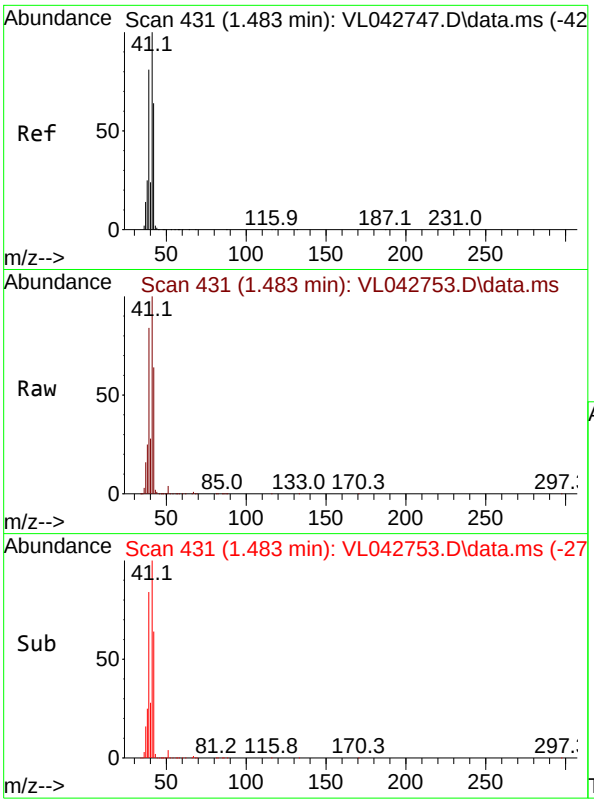


#8
Dichlorotetrafluoroethane
Concen: 14.028 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 85 Resp: 229298

Ion	Ratio	Lower	Upper
85	100		
135	64.4	50.6	76.0

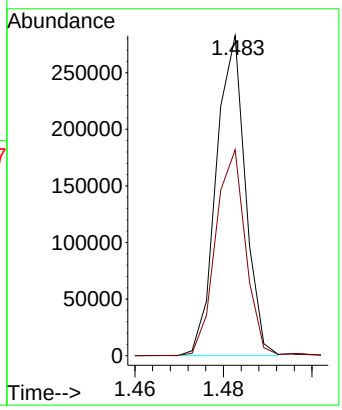




#9
Propene
Concen: 13.716 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 41 Resp: 12906

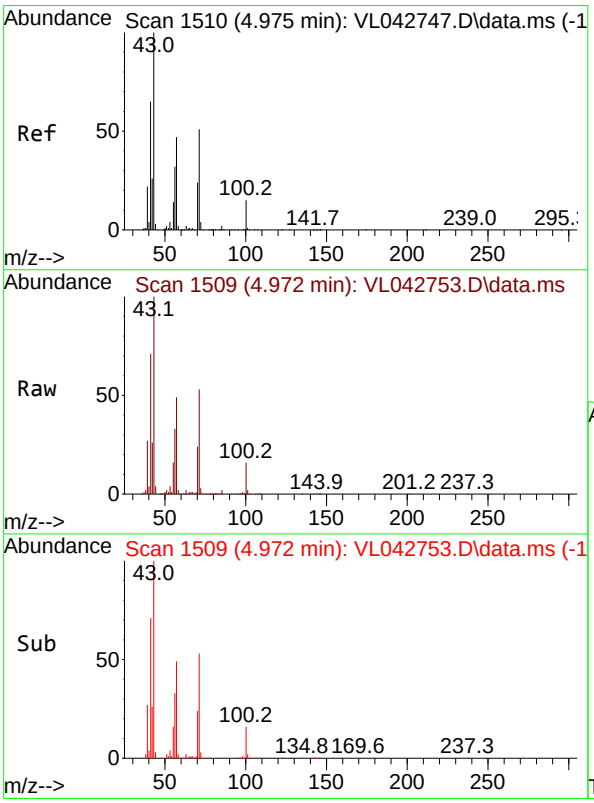
Ion	Ratio	Lower	Upper
41	100		
42	67.0	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

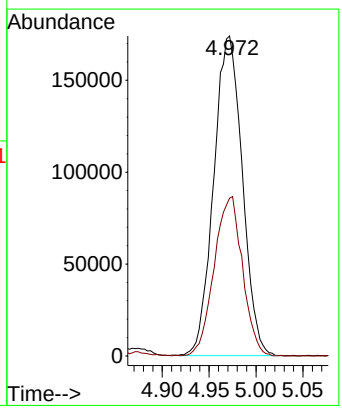
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

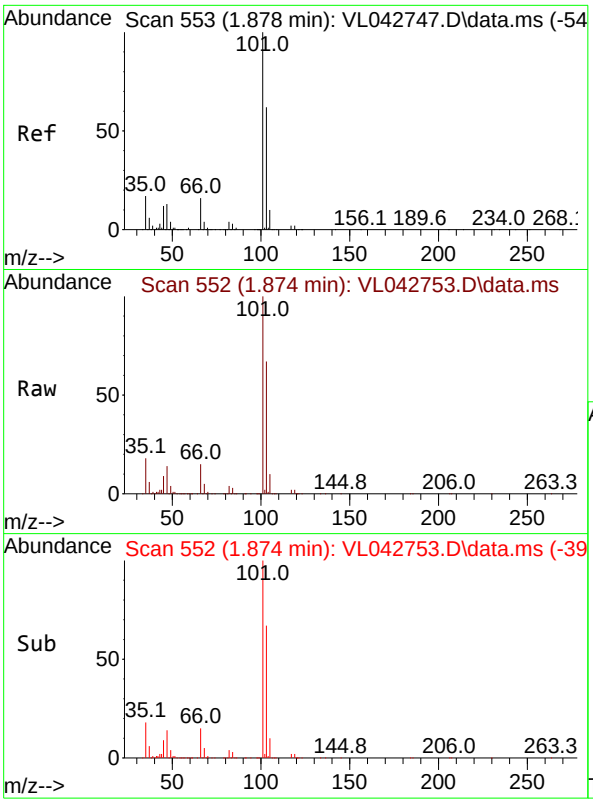


#10
Heptane
Concen: 14.563 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 43 Resp: 368612

Ion	Ratio	Lower	Upper
43	100		
57	49.4	39.9	59.9





#11
Trichlorofluoromethane
Concen: 14.143 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

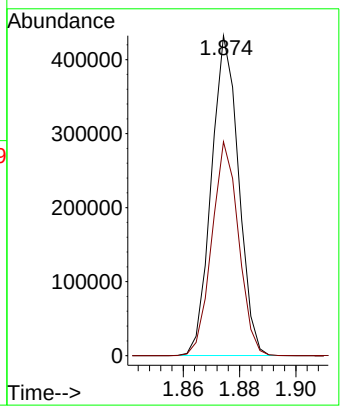
Tgt Ion:101 Resp: 28976

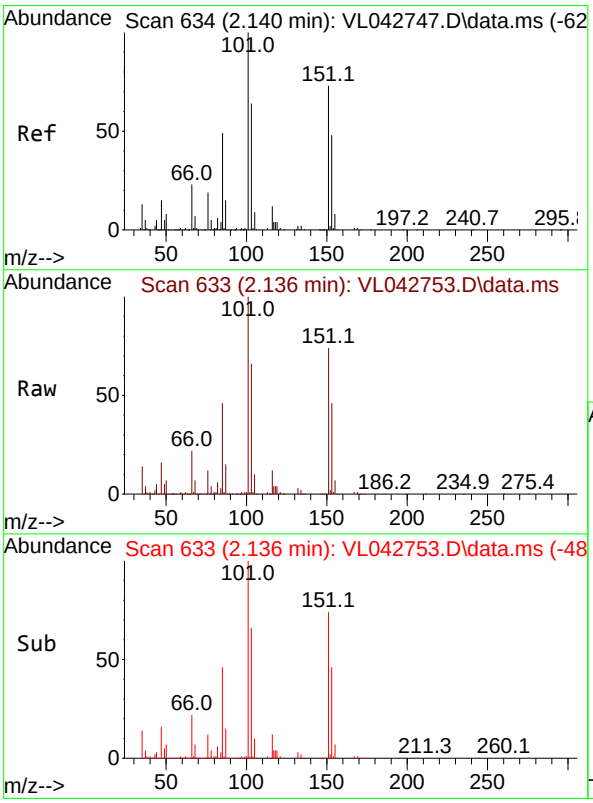
Ion	Ratio	Lower	Upper
101	100		
103	66.8	49.6	74.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

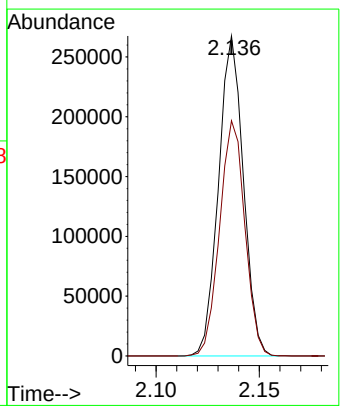


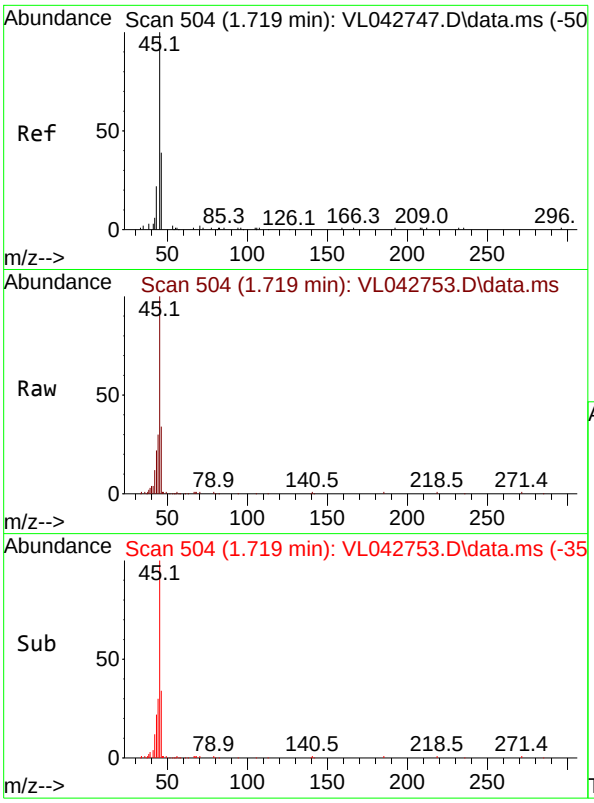


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.358 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:101 Resp: 223552

Ion	Ratio	Lower	Upper
101	100		
151	74.9	60.5	90.7

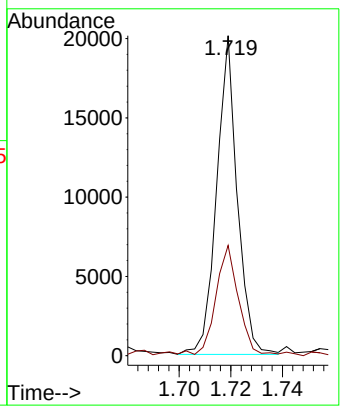




#13
Ethanol
Concen: 15.142 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 45 Resp: 1114

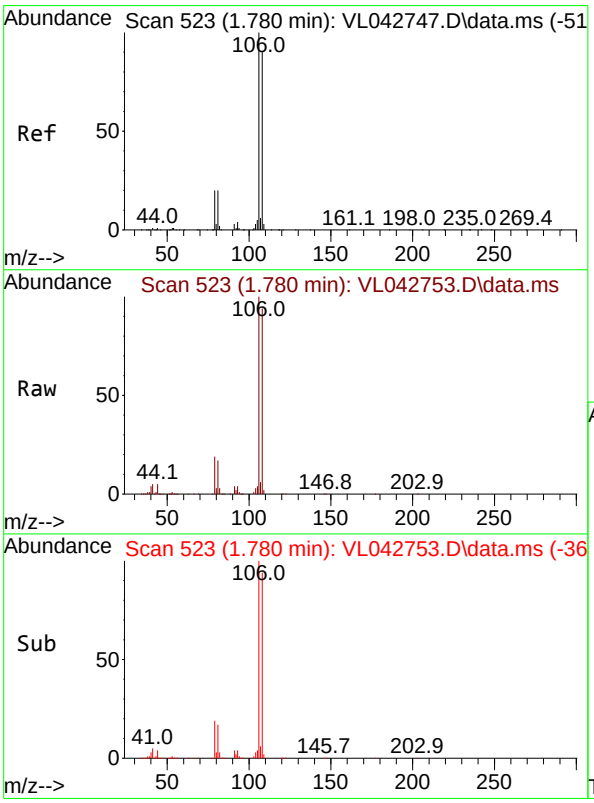
Ion	Ratio	Lower	Upper
45	100		
46	35.4	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

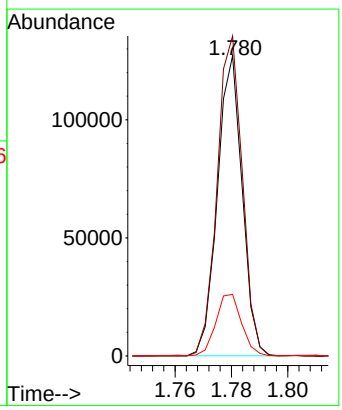
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

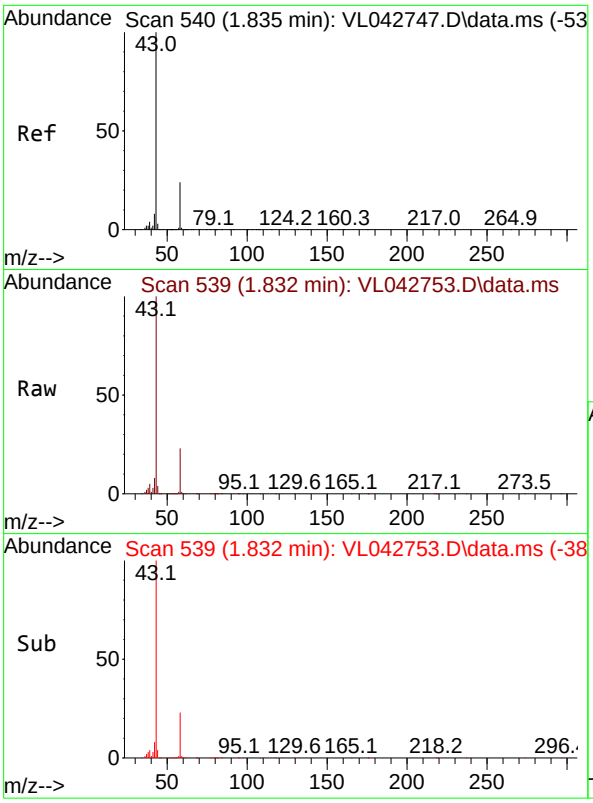


#14
Bromoethene
Concen: 14.047 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:108 Resp: 77435

Ion	Ratio	Lower	Upper
108	100		
106	108.5	84.7	127.1
79	22.3	17.4	26.2

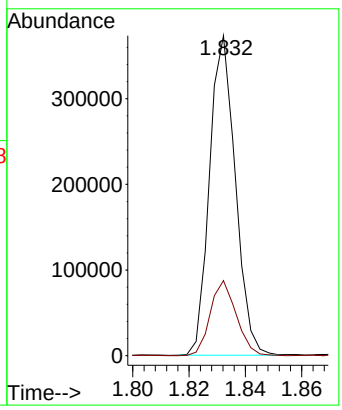




#15
Acetone
Concen: 11.449 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 43 Resp: 23766

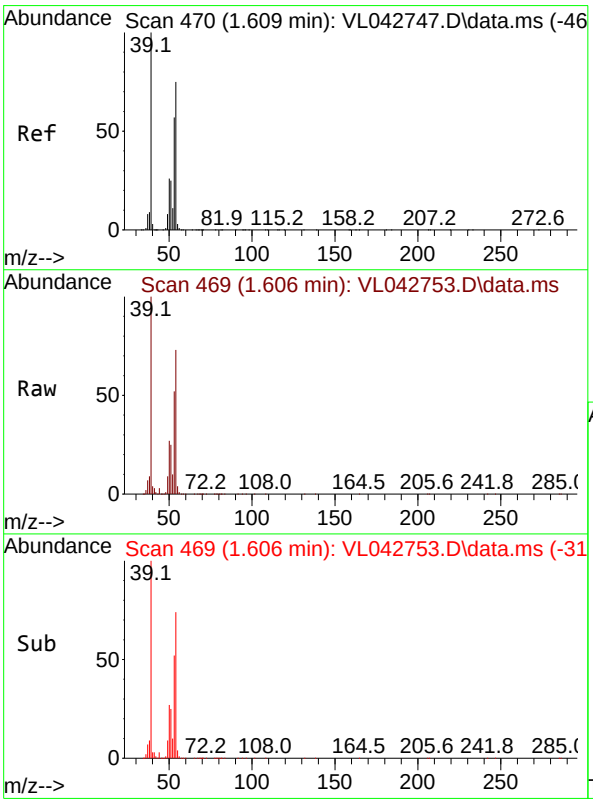
Ion	Ratio	Lower	Upper
43	100		
58	24.0	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

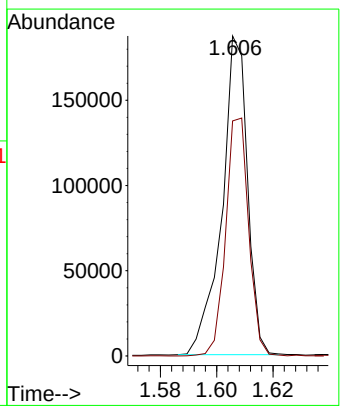
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

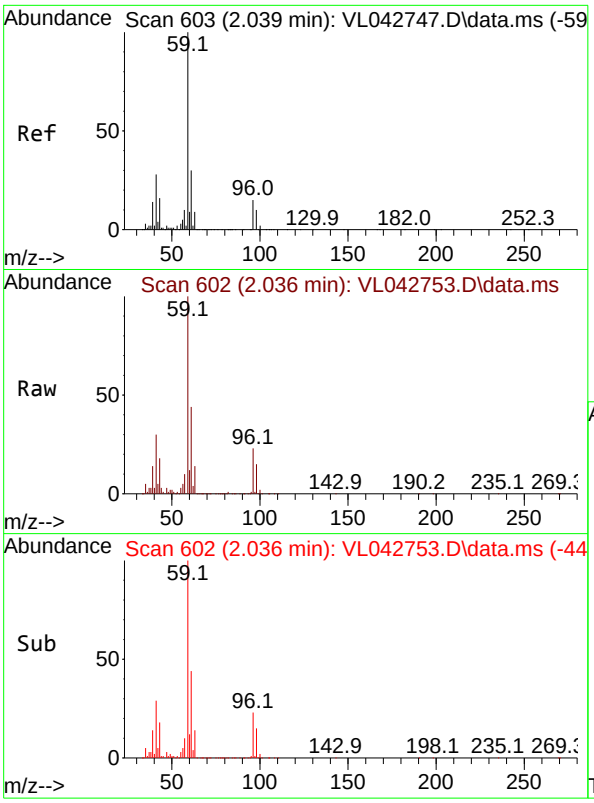


#16
1,3-Butadiene
Concen: 13.355 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 39 Resp: 118252

Ion	Ratio	Lower	Upper
39	100		
54	67.5	54.5	81.7

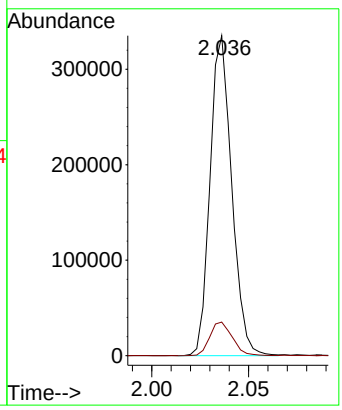




#17
tert-Butyl alcohol
Concen: 13.919 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 59 Resp: 26058

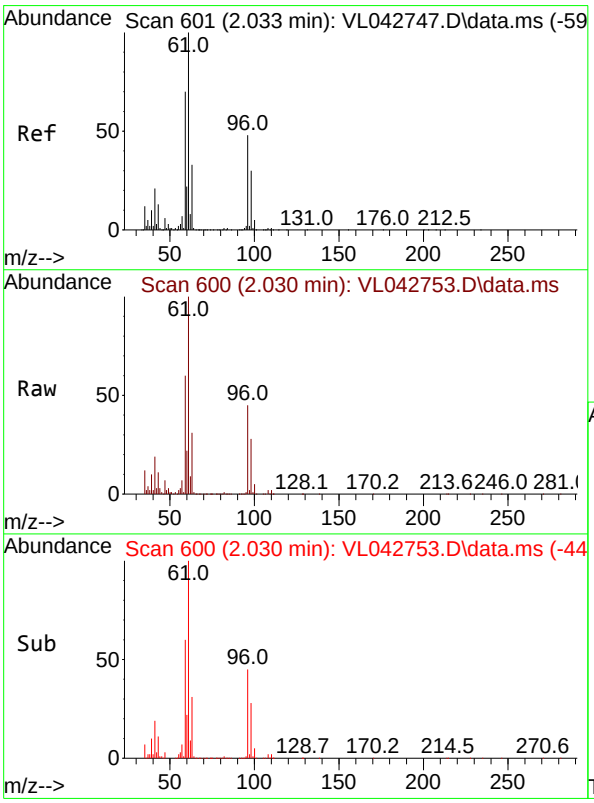
Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.3	12.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

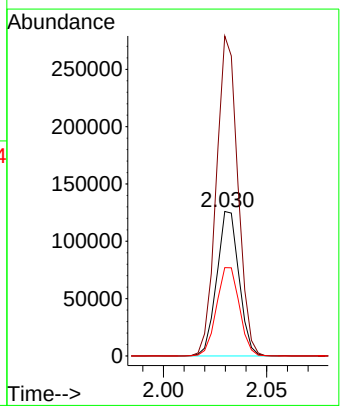
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

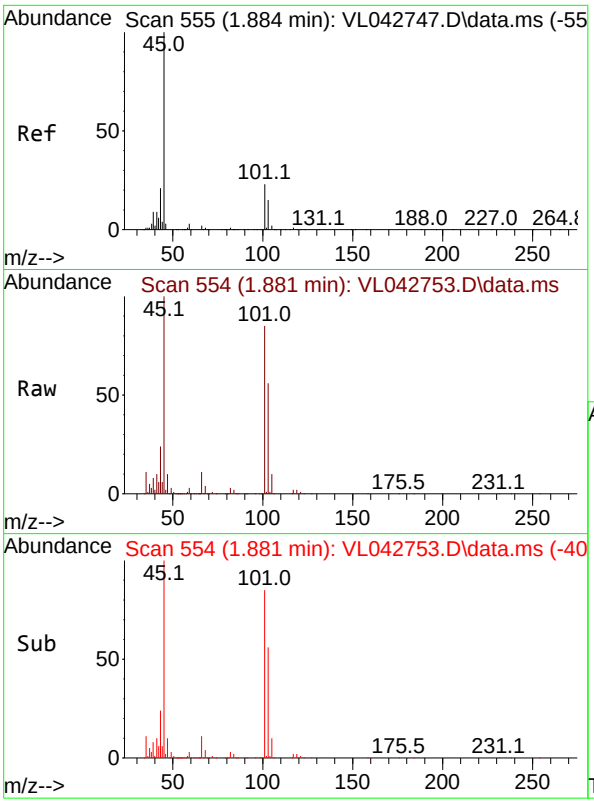


#18
1,1-Dichloroethene
Concen: 13.382 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 96 Resp: 94140

Ion	Ratio	Lower	Upper
96	100		
61	221.6	165.8	248.6
98	61.2	49.9	74.9

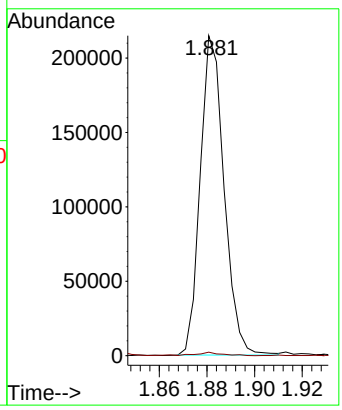




#19
Isopropyl Alcohol
Concen: 13.549 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 45 Resp: 14946

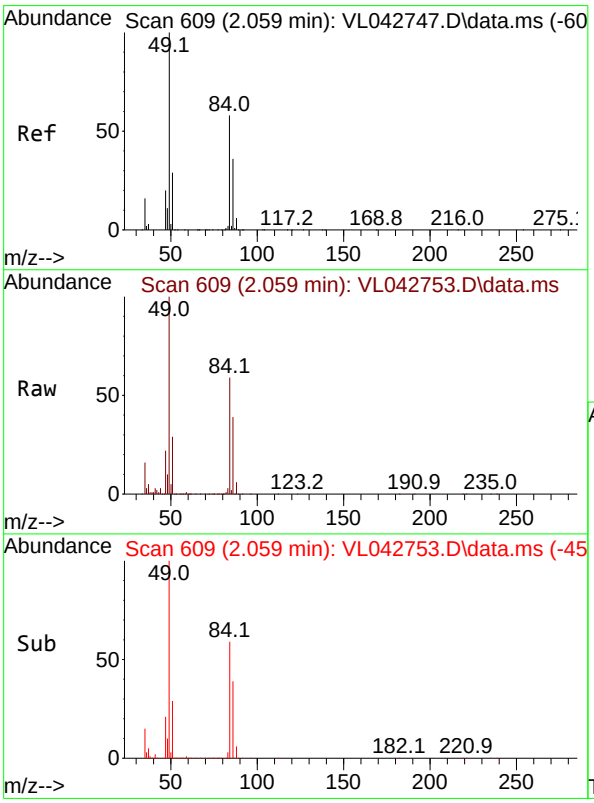
Ion	Ratio	Lower	Upper
45	100		
58	38.1	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

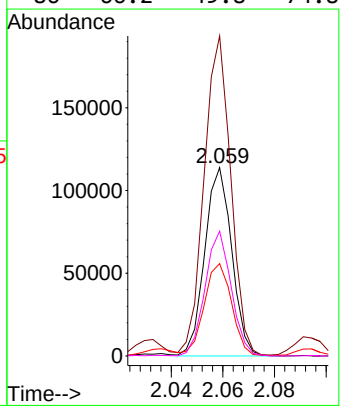
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

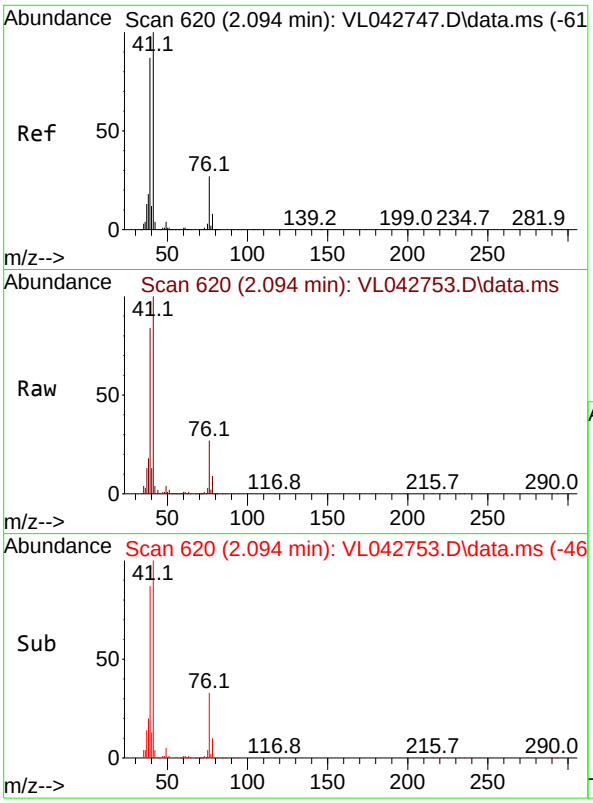


#20
Methylene Chloride
Concen: 12.651 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 84 Resp: 82755

Ion	Ratio	Lower	Upper
84	100		
49	169.2	138.6	208.0
51	48.6	40.6	61.0
86	66.2	49.8	74.8

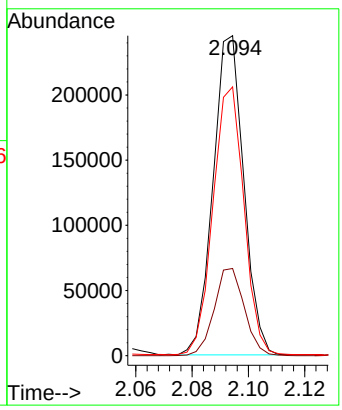




#21
Allyl Chloride
Concen: 14.476 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 41 Resp: 18520

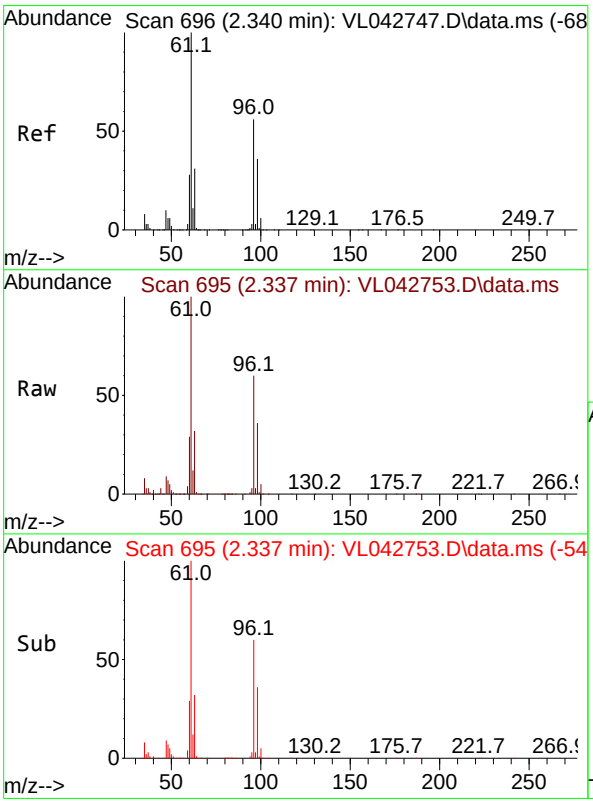
Ion	Ratio	Lower	Upper
41	100		
76	26.9	21.1	31.7
39	85.2	68.3	102.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

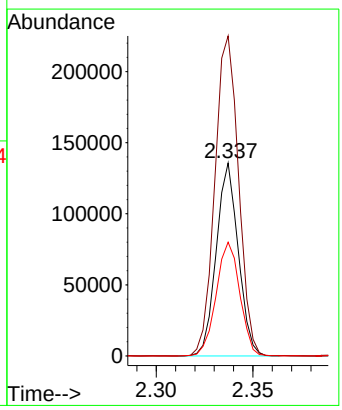
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

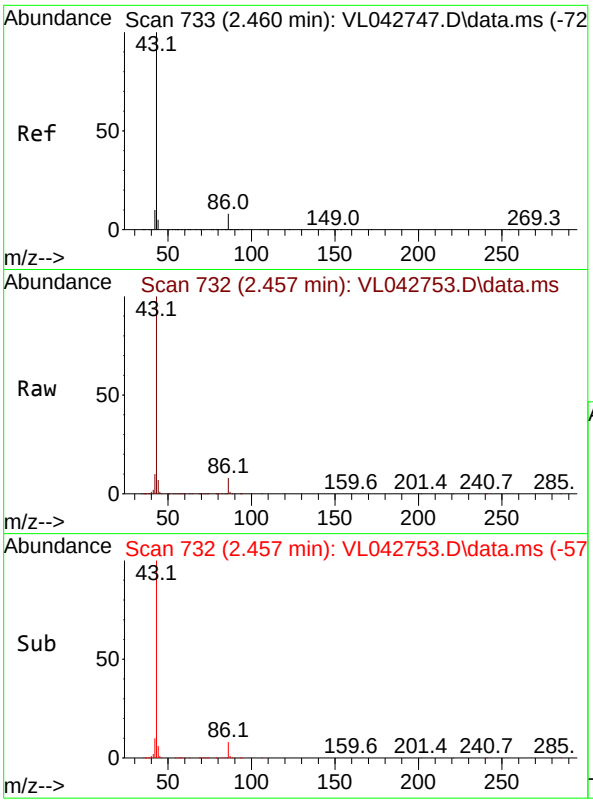


#22
trans-1,2-Dichloroethene
Concen: 14.160 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 96 Resp: 107003

Ion	Ratio	Lower	Upper
96	100		
61	165.9	142.3	213.5
98	59.0	50.6	76.0

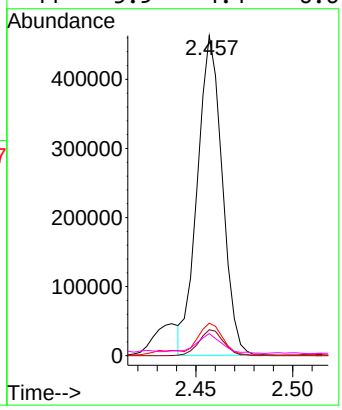




#23
Vinyl Acetate
Concen: 16.426 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 43 Resp: 41337

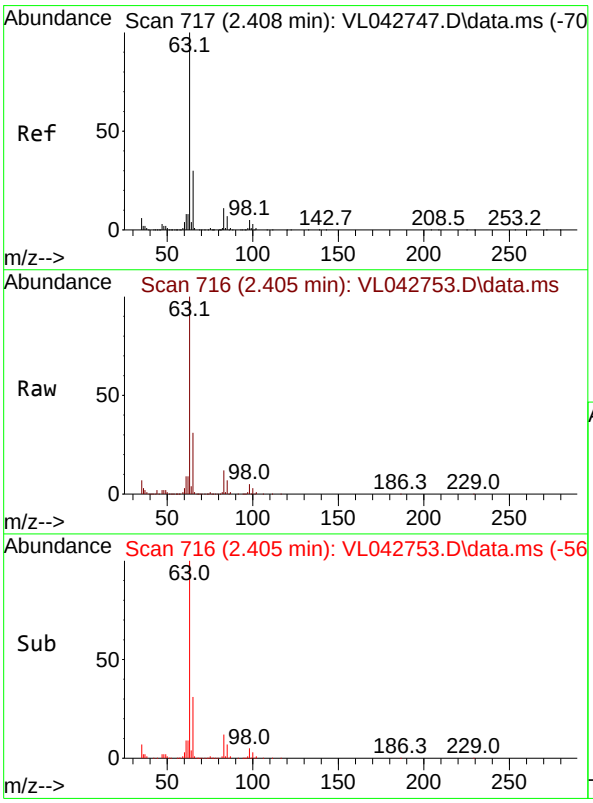
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.1	9.1
42	10.1	7.8	11.8
44	5.9	4.4	6.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

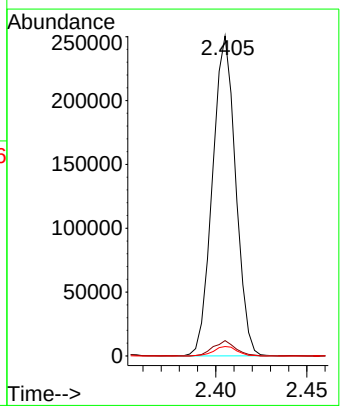
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

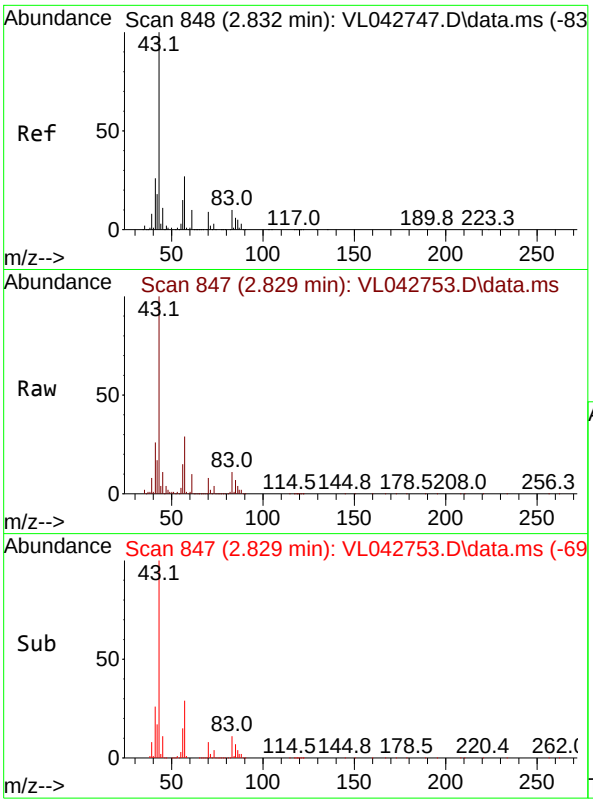


#24
1,1-Dichloroethane
Concen: 14.239 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 63 Resp: 221175

Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.5	7.4
100	2.9	1.6	4.8

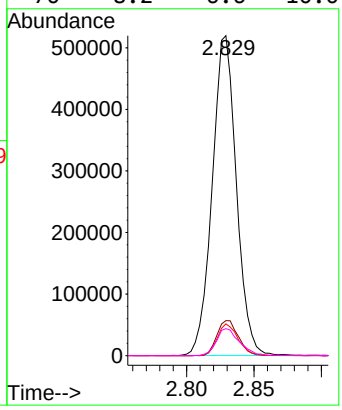




#25
Ethyl Acetate
Concen: 14.084 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 43 Resp: 64715

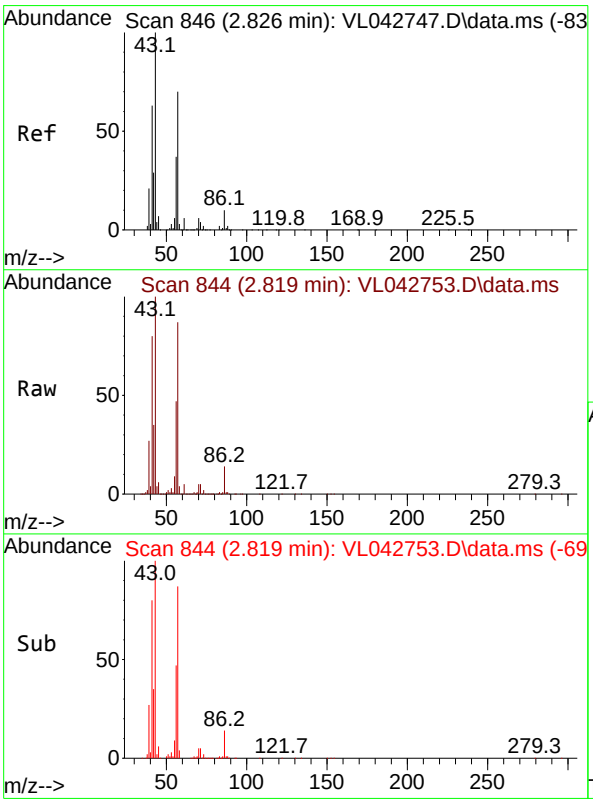
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.6
61	8.6	6.7	10.1
70	8.2	6.6	10.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

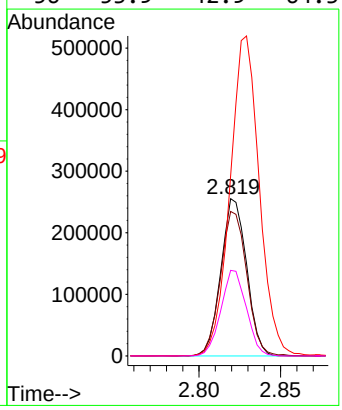
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

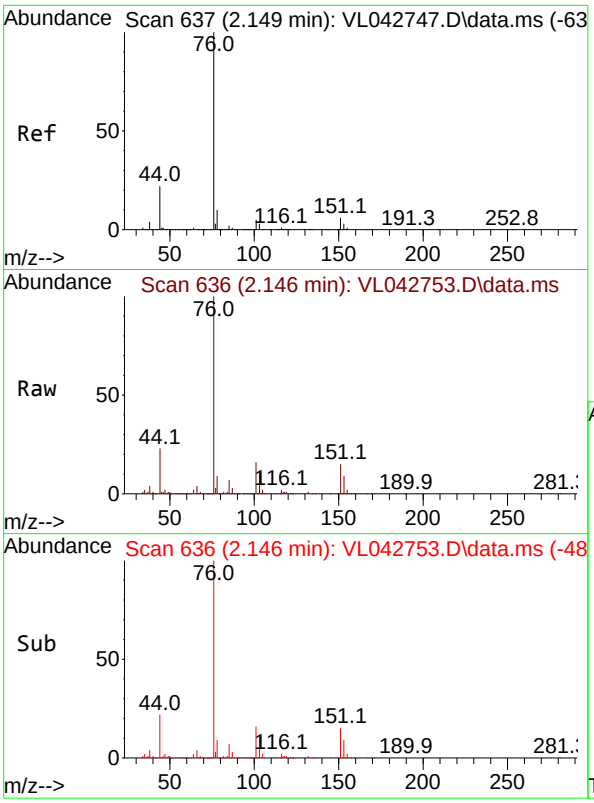


#26
Hexane
Concen: 13.869 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 57 Resp: 279549

Ion	Ratio	Lower	Upper
57	100		
41	94.6	75.4	113.2
43	232.7	185.0	277.6
56	53.9	42.9	64.3

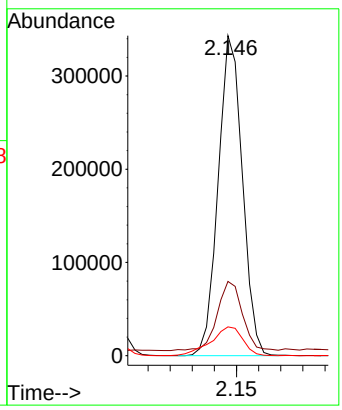




#27
Carbon Disulfide
Concen: 15.119 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 76 Resp: 26088

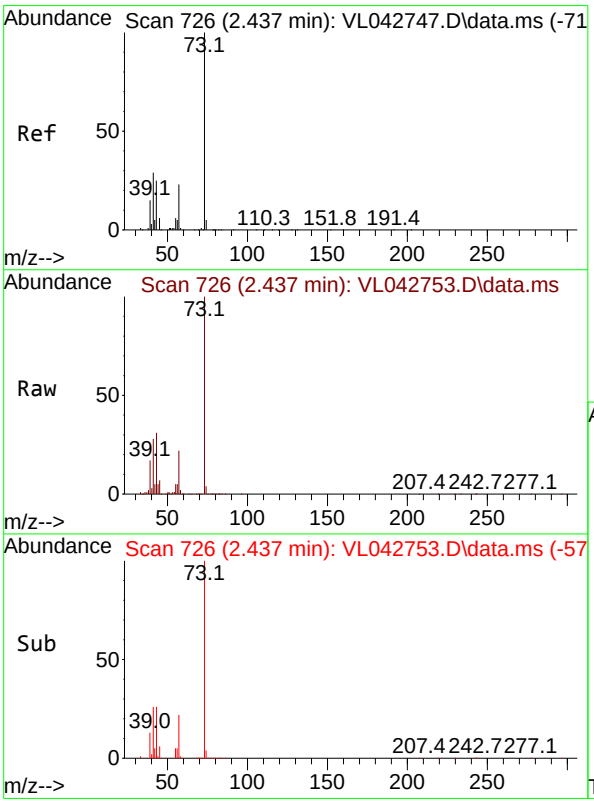
Ion	Ratio	Lower	Upper
76	100		
44	23.1	19.3	28.9
78	11.9	9.9	14.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

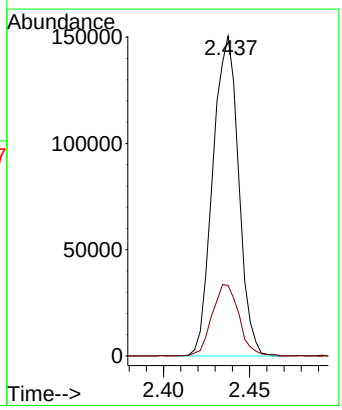
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

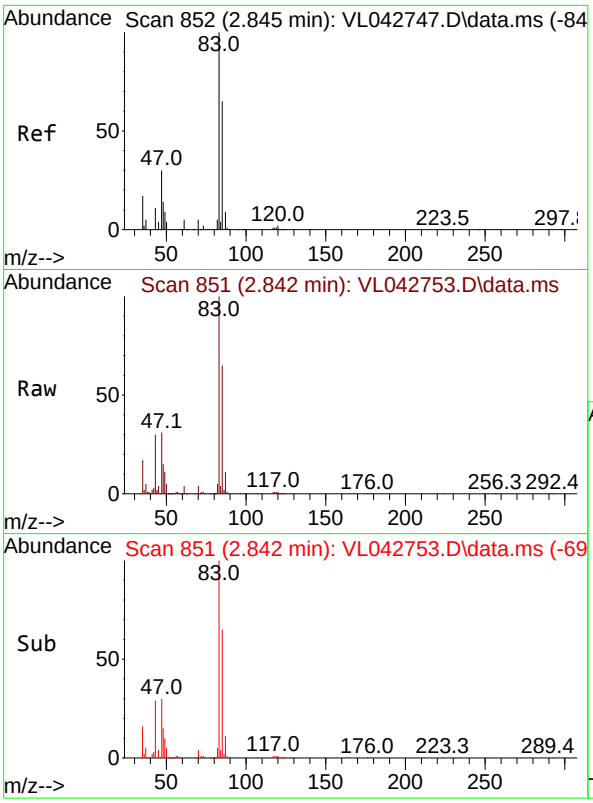


#28
Methyl tert-Butyl Ether
Concen: 16.477 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 73 Resp: 156895

Ion	Ratio	Lower	Upper
73	100		
57	23.5	19.8	29.8

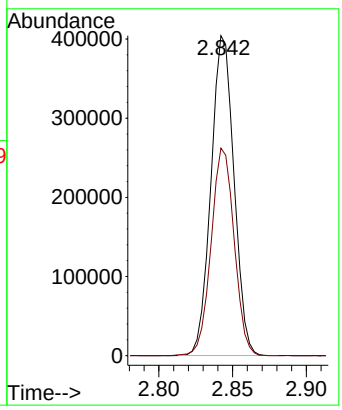




#29
Chloroform
Concen: 14.067 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 83 Resp: 43815

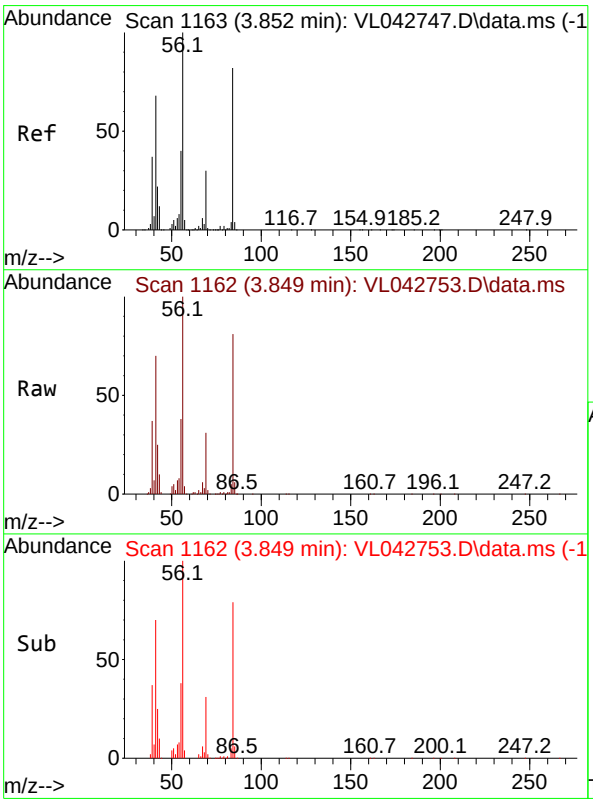
Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.2	78.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

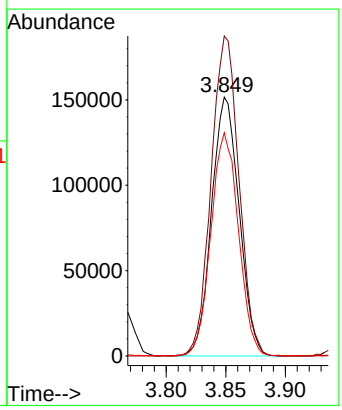
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

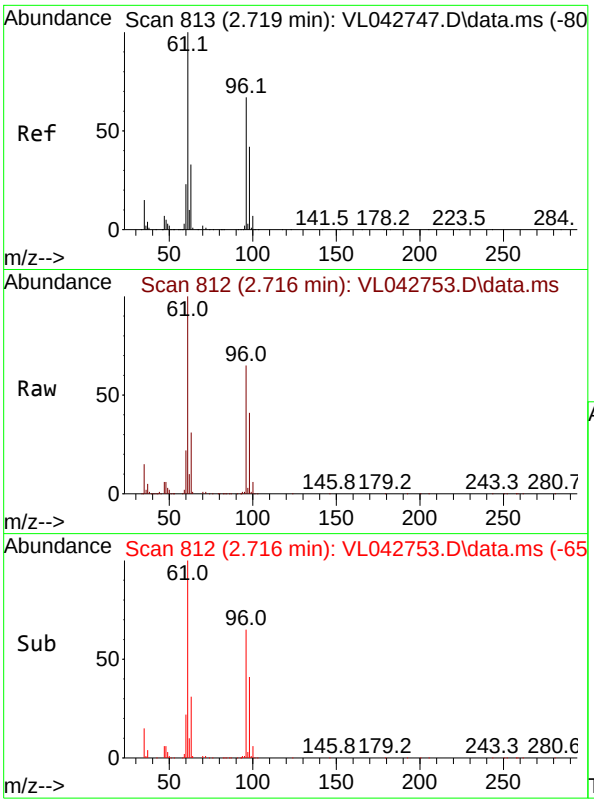


#30
Cyclohexane
Concen: 14.280 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 84 Resp: 244116

Ion	Ratio	Lower	Upper
84	100		
56	124.4	97.5	146.3
41	85.9	67.2	100.8

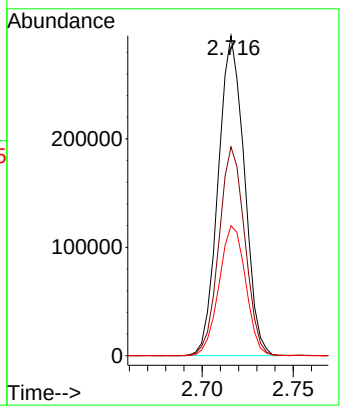




#31
cis-1,2-Dichloroethene
Concen: 14.192 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 61 Resp: 29394

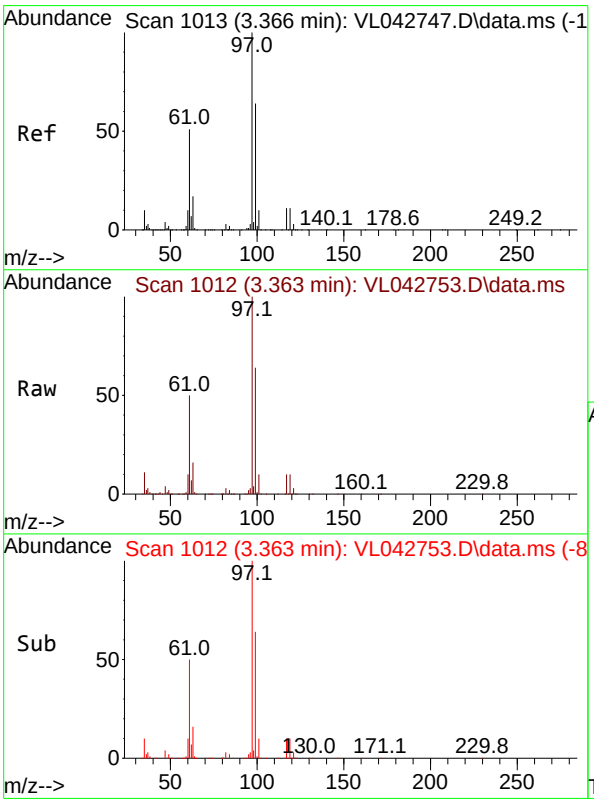
Ion	Ratio	Lower	Upper
61	100		
96	65.3	53.5	80.3
98	40.7	33.6	50.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

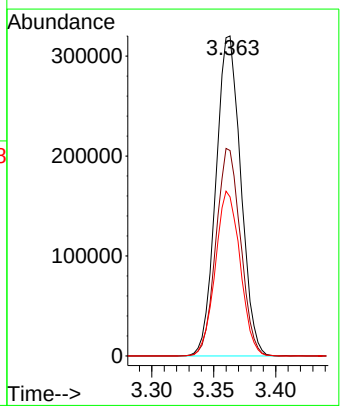
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

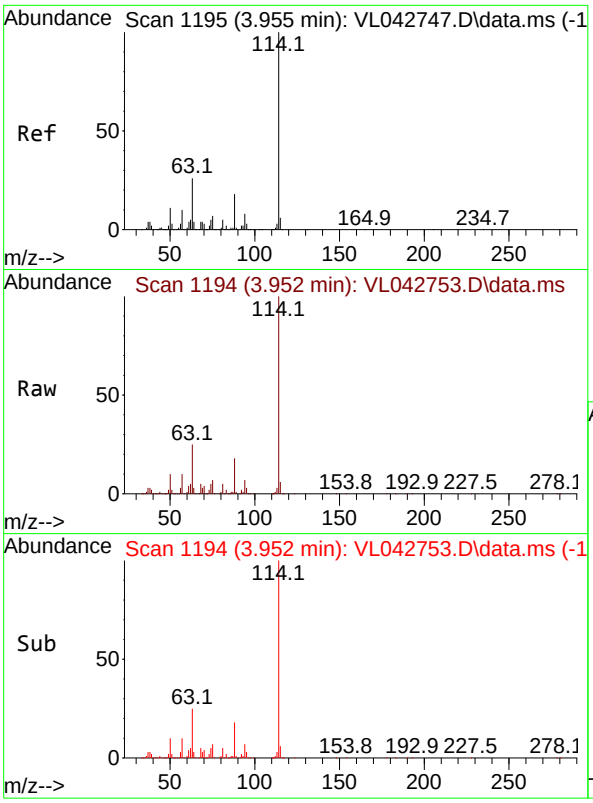


#32
1,1,1-Trichloroethane
Concen: 13.796 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 97 Resp: 447592

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.0	76.6
61	51.5	40.9	61.3

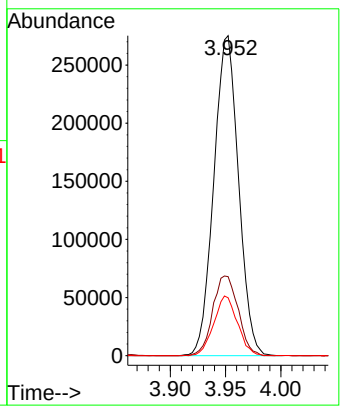




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:114 Resp: 42743

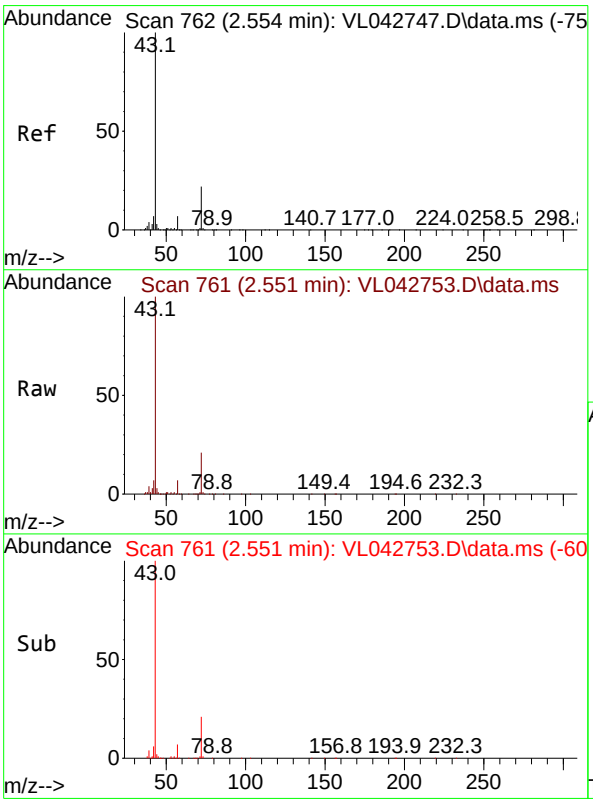
Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.5	30.7
88	17.9	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

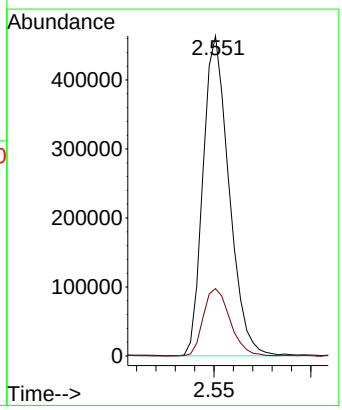
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

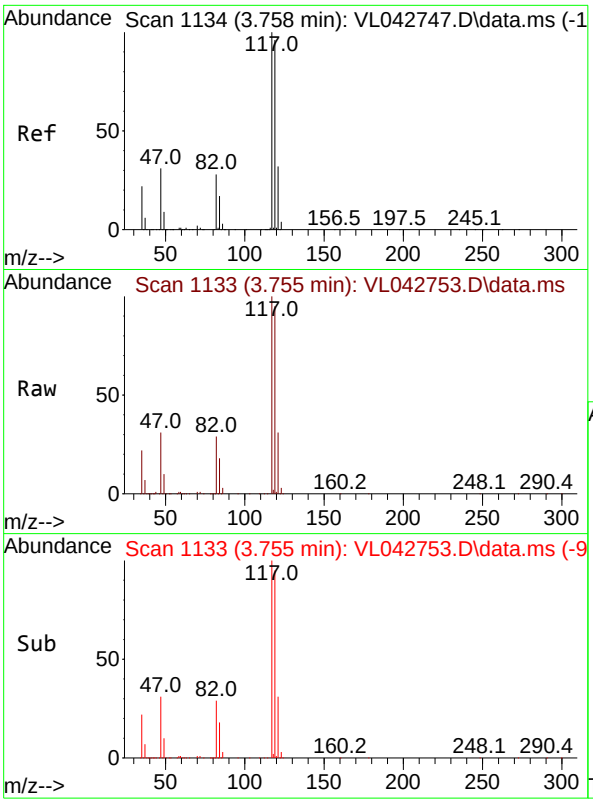


#34
2-Butanone
Concen: 14.297 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 43 Resp: 432873

Ion	Ratio	Lower	Upper
43	100		
72	21.8	17.4	26.0

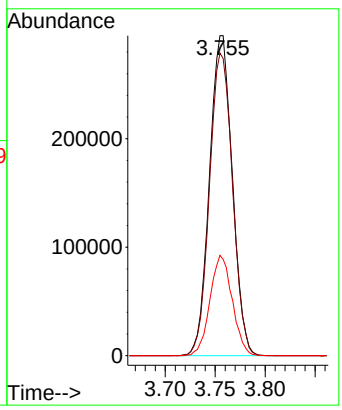




#35
Carbon Tetrachloride
Concen: 14.764 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:117 Resp: 46895

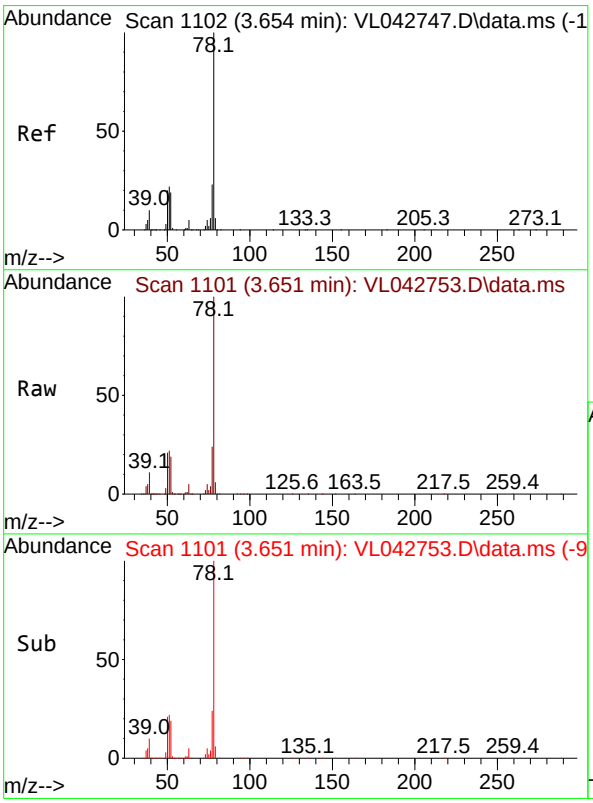
Ion	Ratio	Lower	Upper
117	100		
119	94.6	77.1	115.7
121	31.4	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

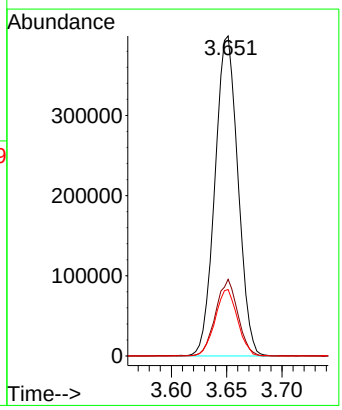
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

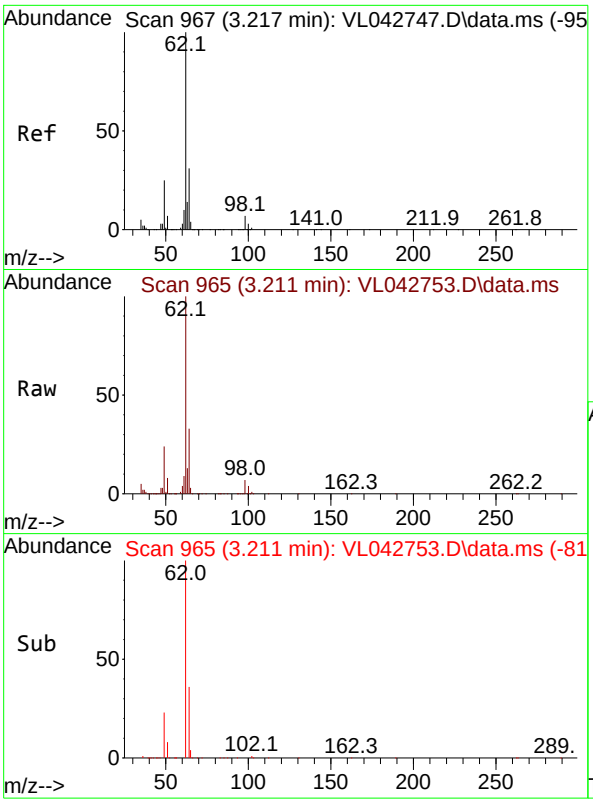


#36
Benzene
Concen: 14.247 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 78 Resp: 577153

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.5	27.7
50	20.7	16.2	24.2

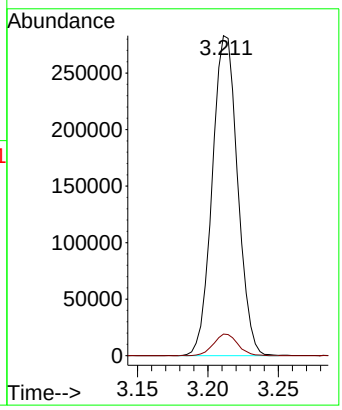




#37
1,2-Dichloroethane
Concen: 14.533 ppbv
RT: 3.211 min Scan# 9
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 62 Resp: 35463

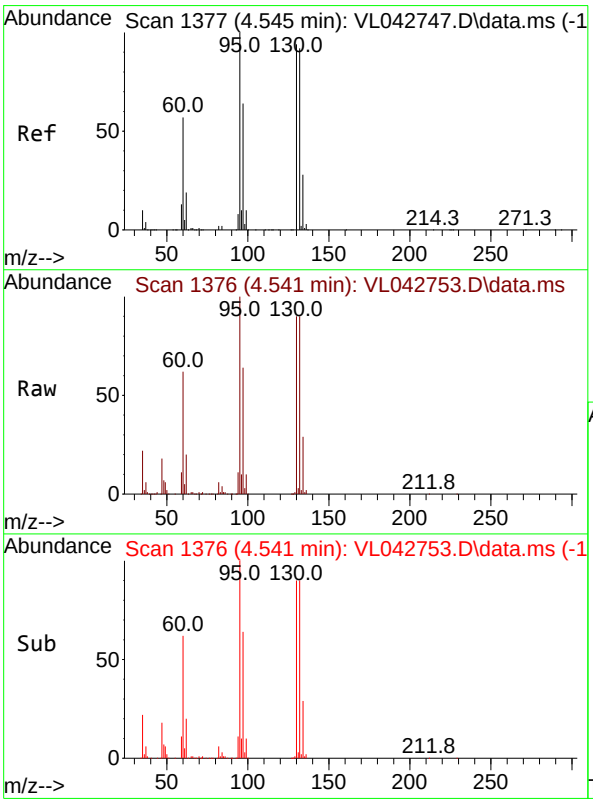
Ion	Ratio	Lower	Upper
62	100		
98	6.5	5.2	7.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

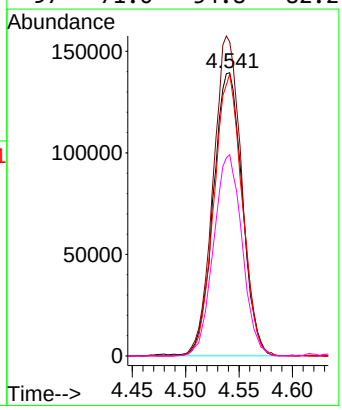
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

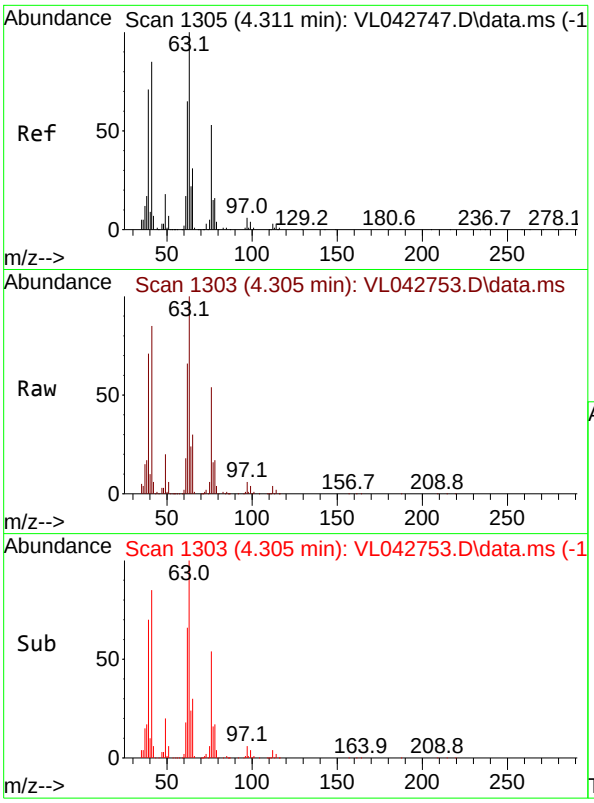


#38
Trichloroethene
Concen: 13.416 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:130 Resp: 262041

Ion	Ratio	Lower	Upper
130	100		
95	110.8	85.4	128.2
132	99.5	78.2	117.2
97	71.0	54.8	82.2

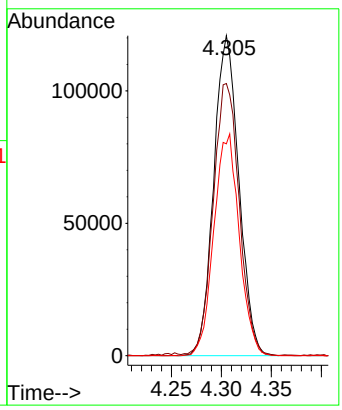




#39
1,2-Dichloropropane
Concen: 14.150 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 63 Resp: 21159

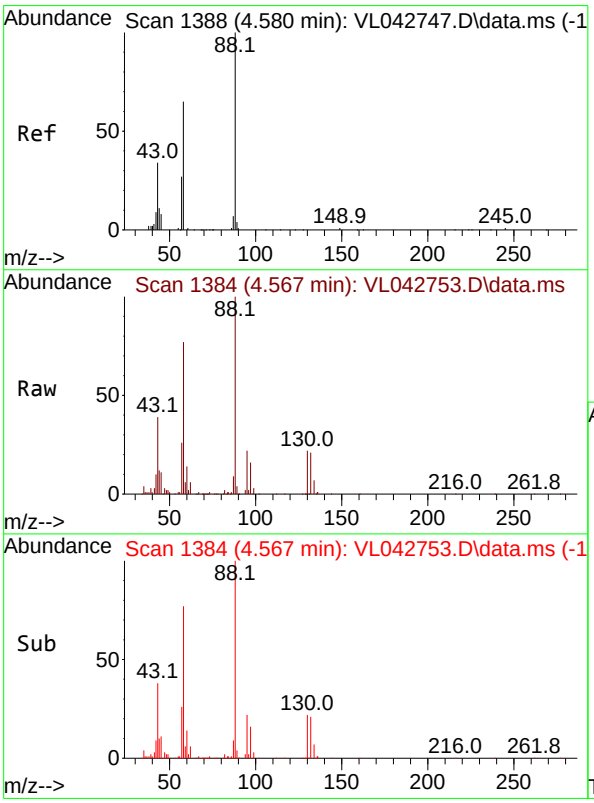
Ion	Ratio	Lower	Upper
63	100		
41	85.0	68.2	102.4
62	66.2	52.0	78.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

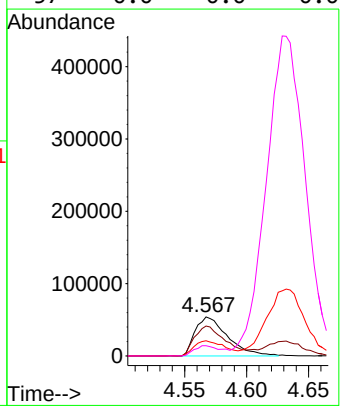
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

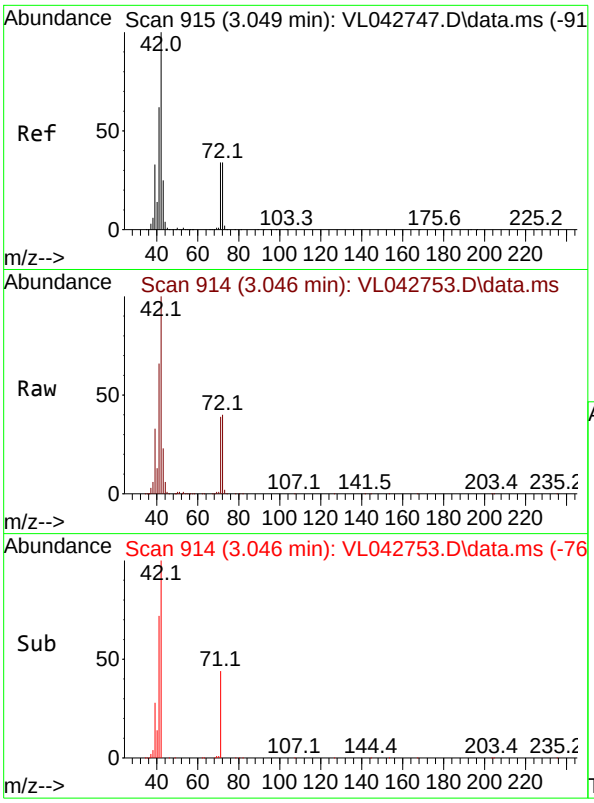


#40
1,4-Dioxane
Concen: 13.926 ppbv
RT: 4.567 min Scan# 1384
Delta R.T. -0.013 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 88 Resp: 98196

Ion	Ratio	Lower	Upper
88	100		
58	71.9	58.8	88.2
43	35.8	28.9	43.3
57	0.0	0.0	0.0

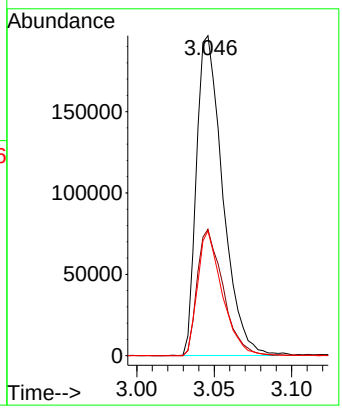




#41
Tetrahydrofuran
Concen: 15.278 ppbv
RT: 3.046 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 42 Resp: 23239

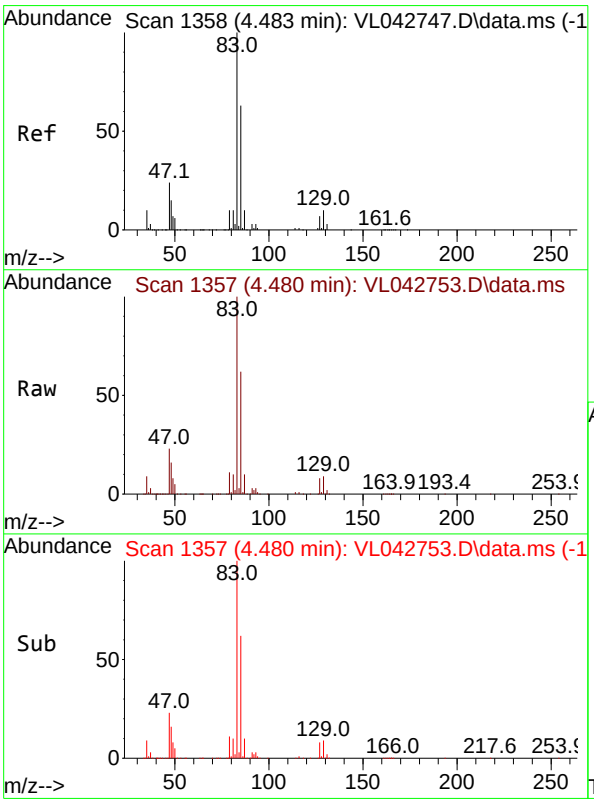
Ion	Ratio	Lower	Upper
42	100		
72	39.2	30.9	46.3
71	36.6	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

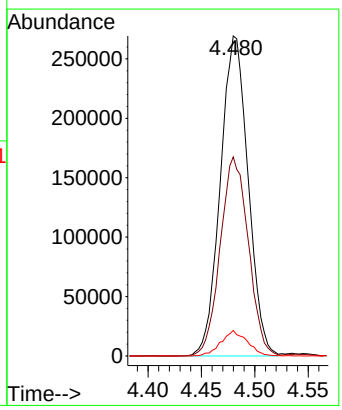
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

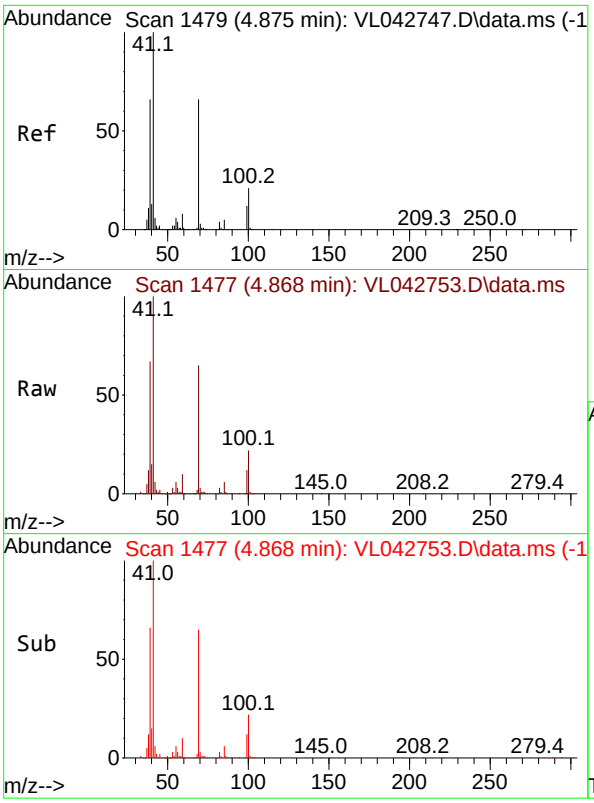


#42
Bromodichloromethane
Concen: 15.303 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 83 Resp: 486831

Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.2	75.4
127	8.0	5.4	8.2

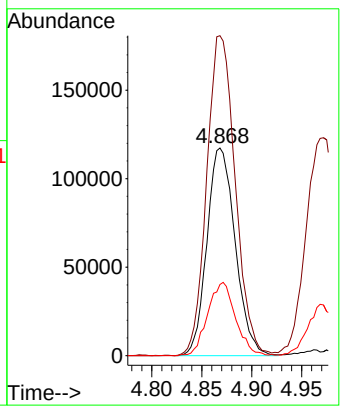




#43
Methyl Methacrylate
Concen: 16.059 ppbv
RT: 4.868 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 69 Resp: 23122

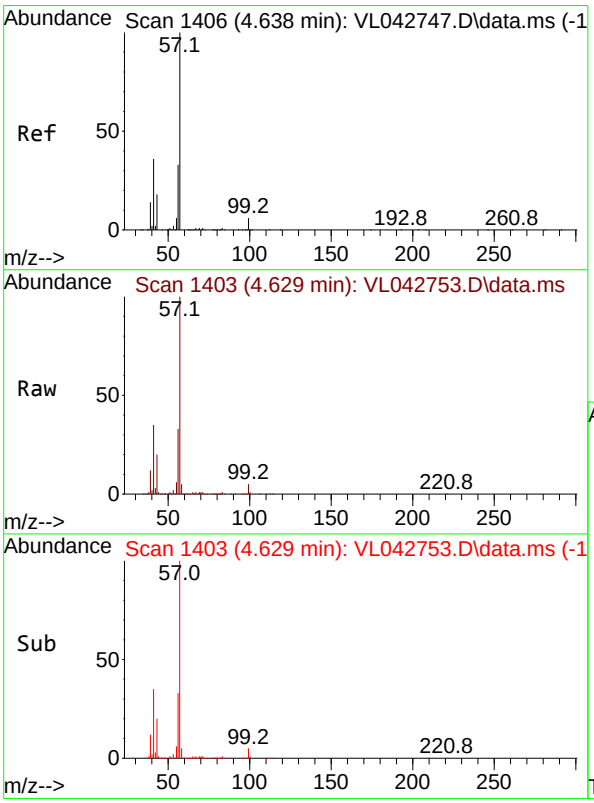
Ion	Ratio	Lower	Upper
69	100		
41	155.0	125.7	188.5
100	34.8	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

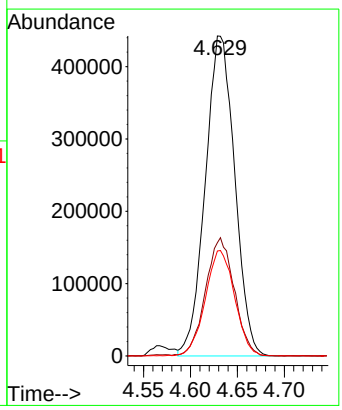
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

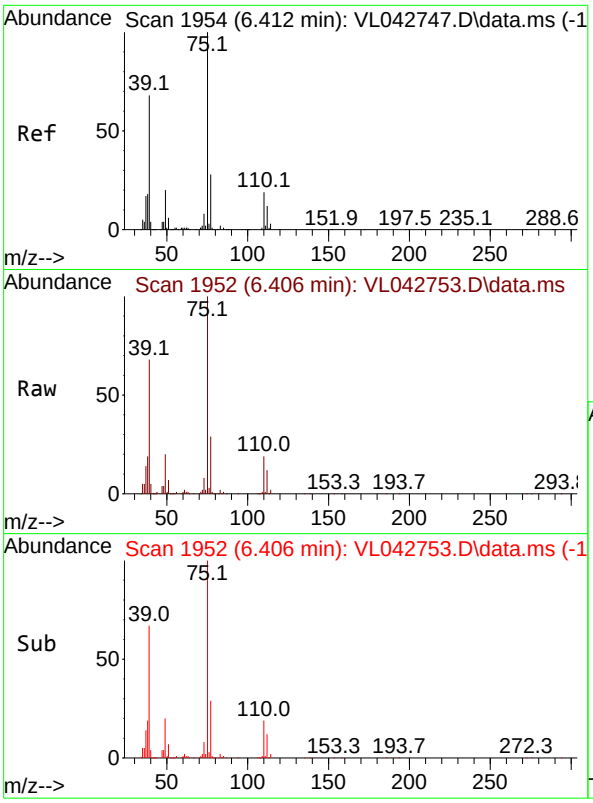


#44
2,2,4-Trimethylpentane
Concen: 14.598 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 57 Resp: 963867

Ion	Ratio	Lower	Upper
57	100		
41	36.4	28.3	42.5
56	32.9	25.8	38.6

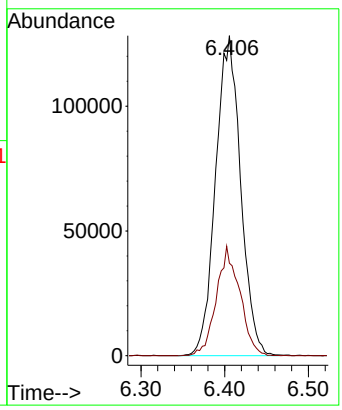




#45
t-1,3-Dichloropropene
Concen: 16.478 ppbv
RT: 6.406 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 75 Resp: 26619

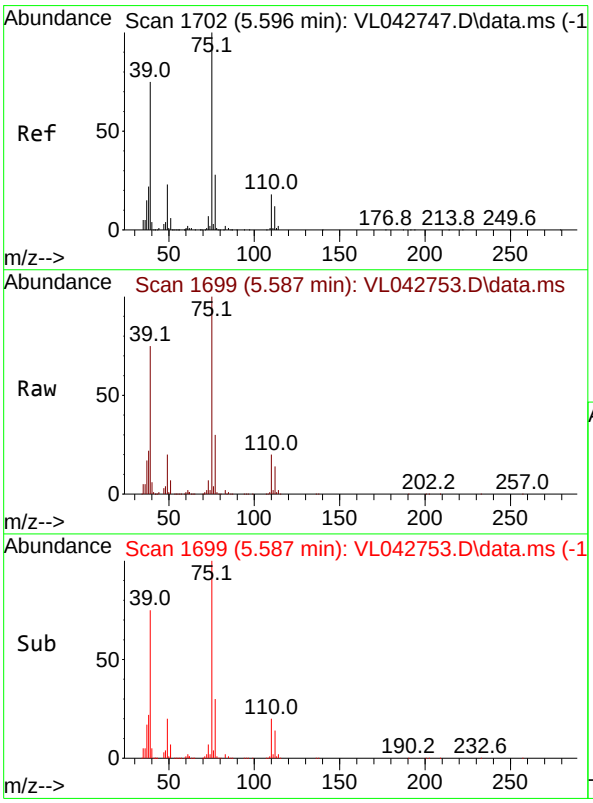
Ion	Ratio	Lower	Upper
75	100		
77	28.9	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

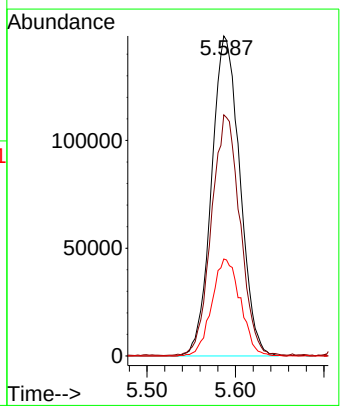
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

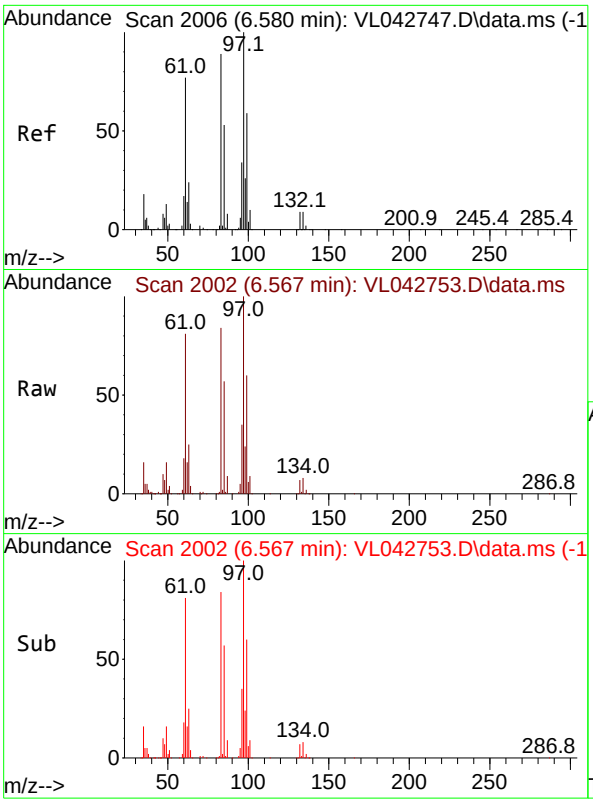


#46
cis-1,3-Dichloropropene
Concen: 16.115 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.010 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 75 Resp: 329850

Ion	Ratio	Lower	Upper
75	100		
39	74.8	60.2	90.2
77	30.2	22.6	34.0

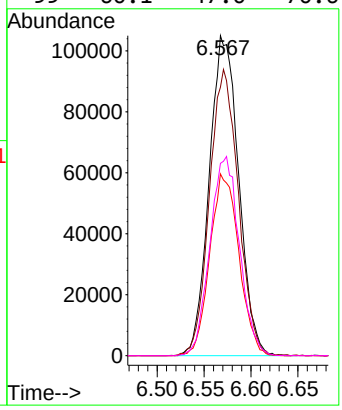




#47
1,1,2-Trichloroethane
Concen: 14.335 ppbv
RT: 6.567 min Scan# 2
Delta R.T. -0.013 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 97 Resp: 22849

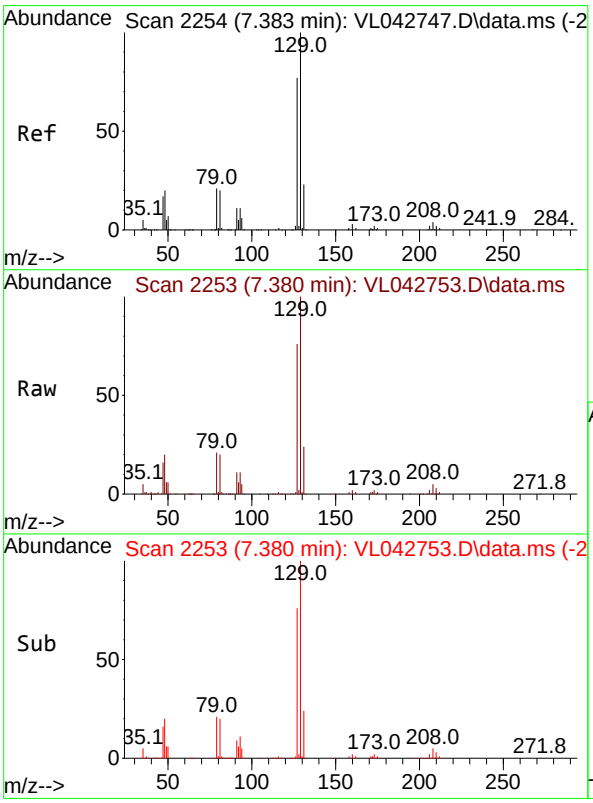
Ion	Ratio	Lower	Upper
97	100		
83	83.7	71.1	106.7
85	56.7	43.0	64.4
99	60.1	47.0	70.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

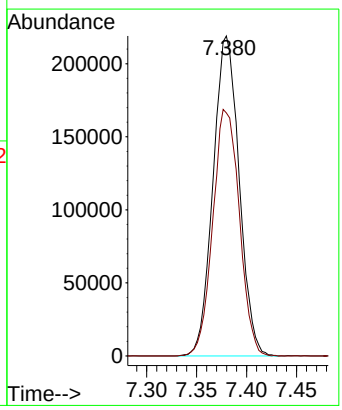
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

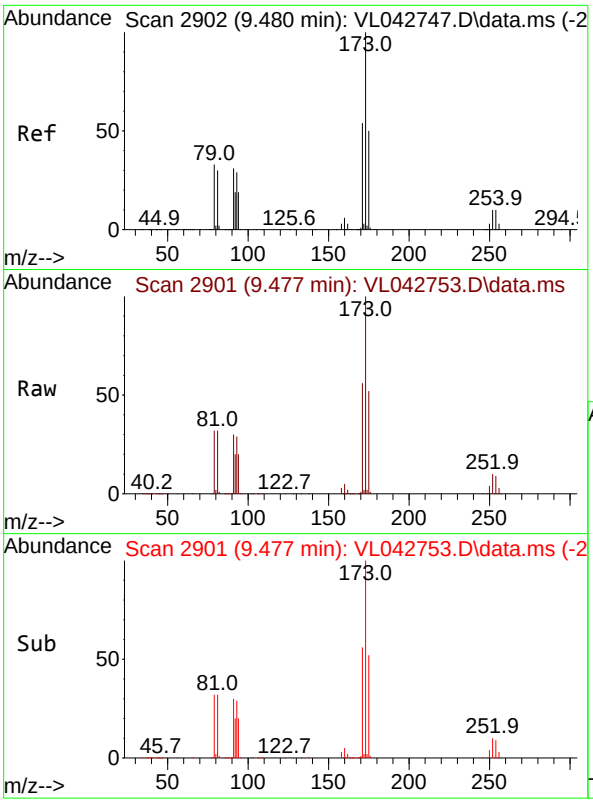


#48
Dibromochloromethane
Concen: 15.695 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:129 Resp: 397179

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.7	116.1

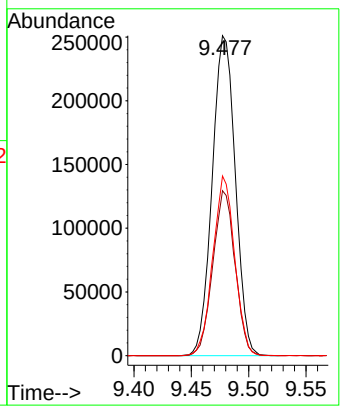




#49
Bromoform
Concen: 15.955 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:173 Resp: 35205

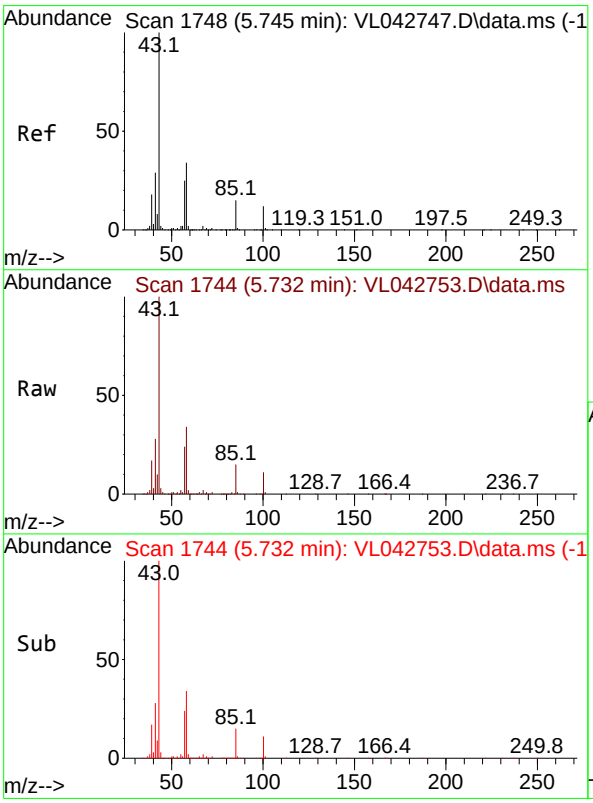
Ion	Ratio	Lower	Upper
173	100		
175	49.6	38.4	57.6
171	53.1	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

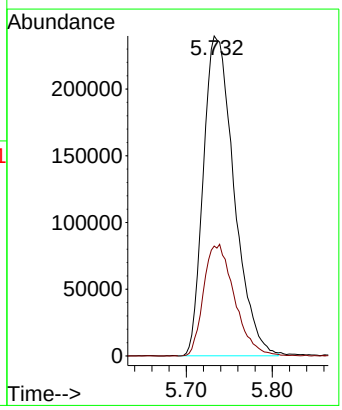
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

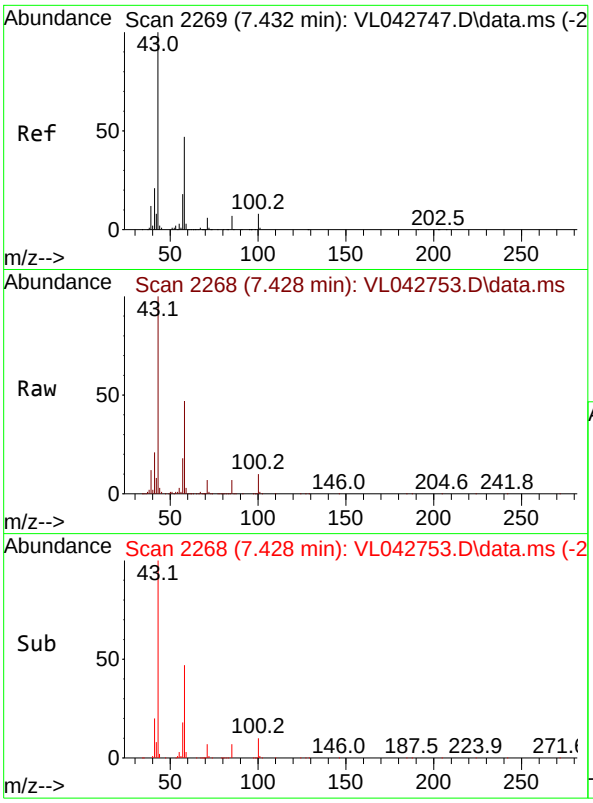


#50
4-Methyl-2-Pentanone
Concen: 15.427 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. -0.013 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 43 Resp: 594973

Ion	Ratio	Lower	Upper
43	100		
58	35.1	27.8	41.8





#51
2-Hexanone
Concen: 16.467 ppbv
RT: 7.428 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

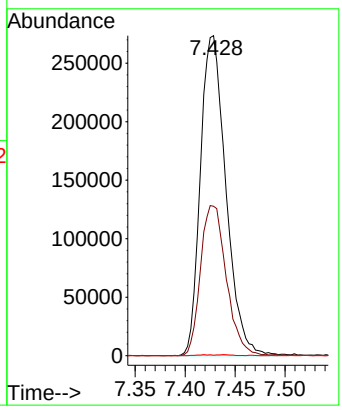
Tgt Ion: 43 Resp: 48532

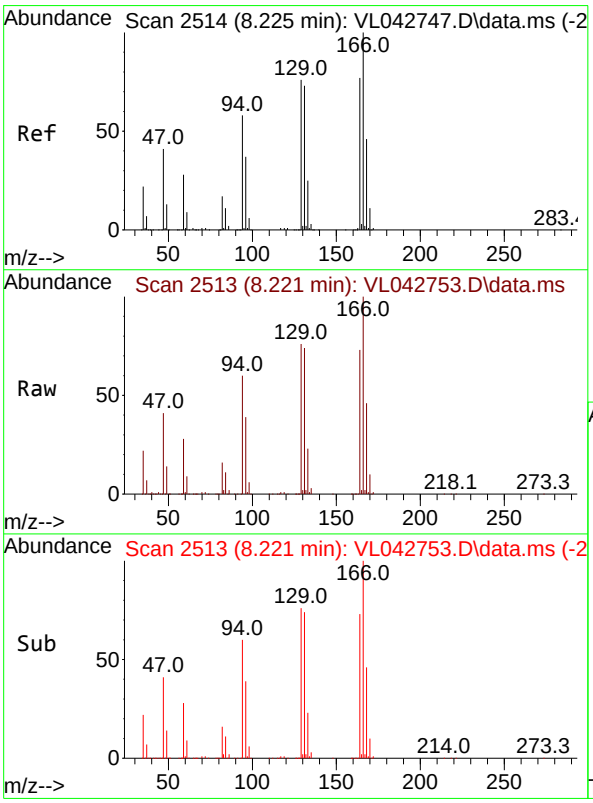
Ion	Ratio	Lower	Upper
43	100		
58	47.7	38.0	57.0
98	0.4	0.2	0.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

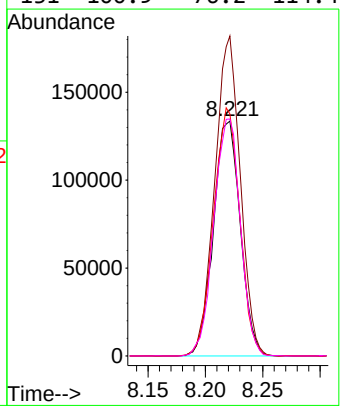


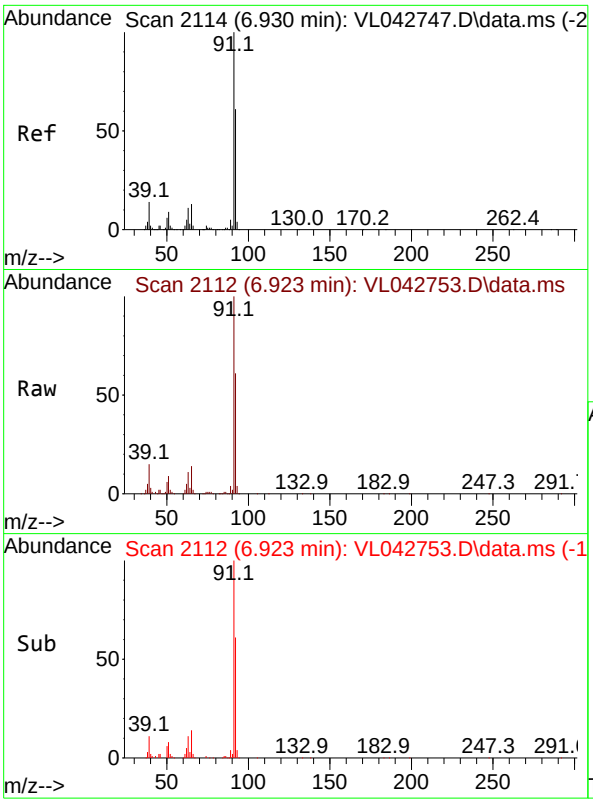


#52
Tetrachloroethene
Concen: 12.899 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:164 Resp: 217184

Ion	Ratio	Lower	Upper
164	100		
166	136.3	104.0	156.0
129	103.1	79.2	118.8
131	100.9	76.2	114.4

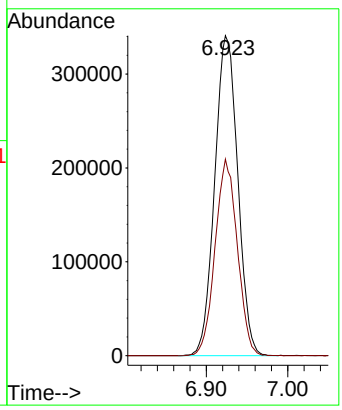




#53
Toluene
Concen: 15.405 ppbv
RT: 6.923 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 67014

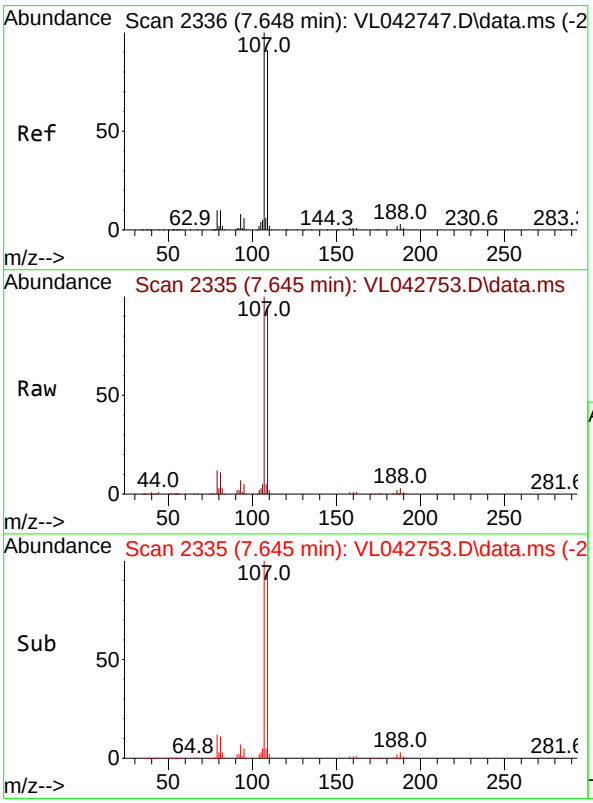
Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.0	72.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

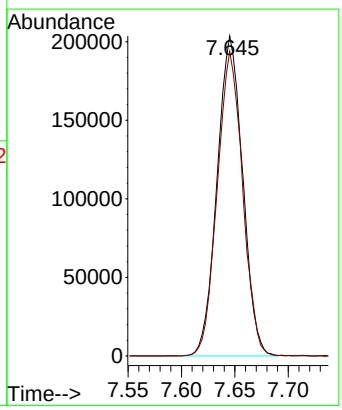
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

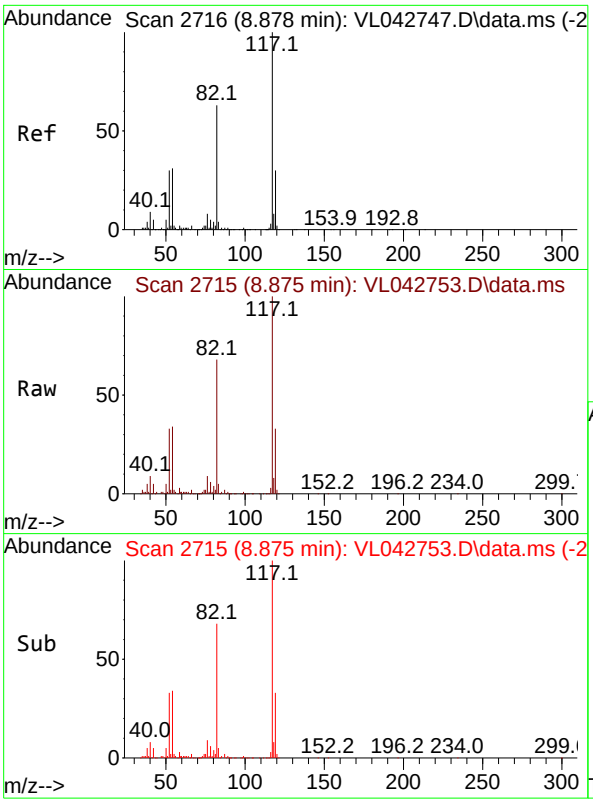


#54
1,2-Dibromoethane
Concen: 15.019 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:107 Resp: 338867

Ion	Ratio	Lower	Upper
107	100		
109	95.1	72.7	109.1

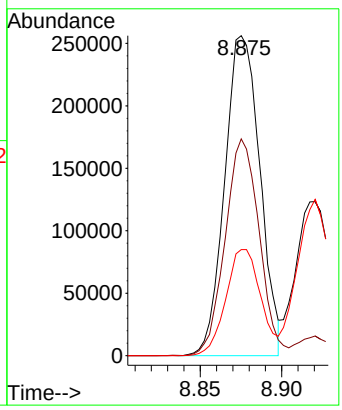




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:117 Resp: 38522

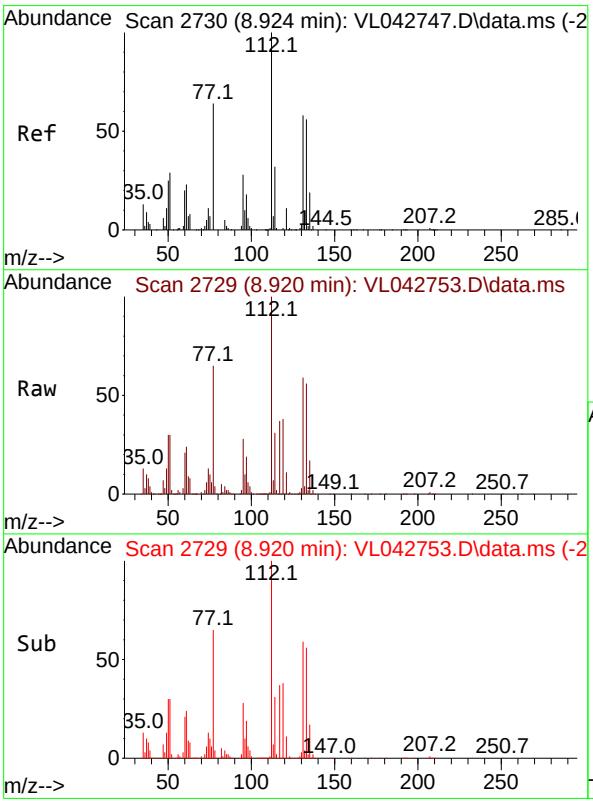
Ion	Ratio	Lower	Upper
117	100		
82	71.0	53.3	79.9
119	32.3	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

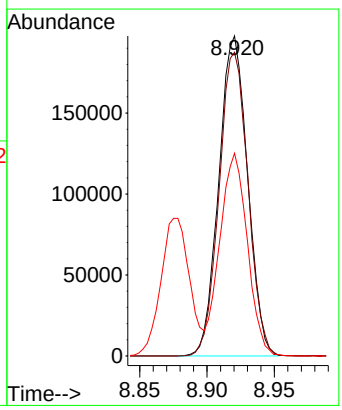
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

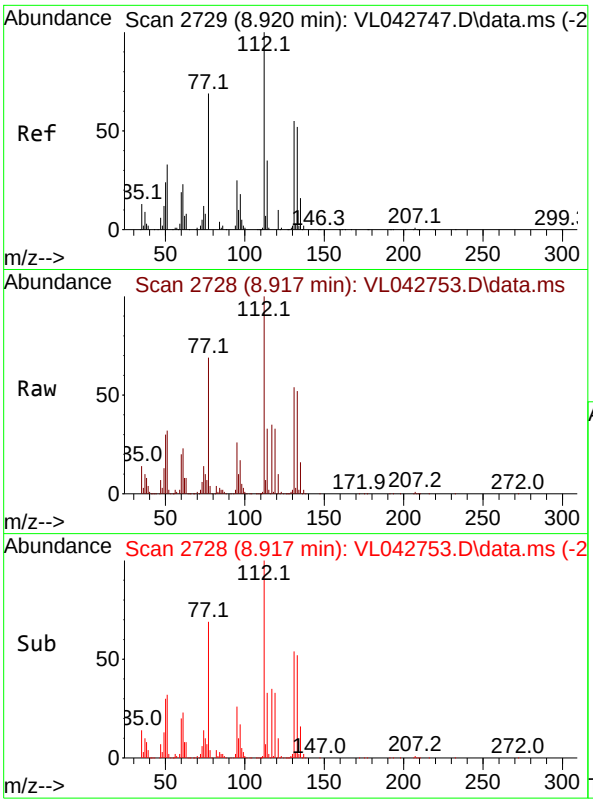


#56
1,1,1,2-Tetrachloroethane
Concen: 14.648 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:131 Resp: 293384

Ion	Ratio	Lower	Upper
131	100		
133	95.4	76.8	115.2
119	60.7	49.7	74.5

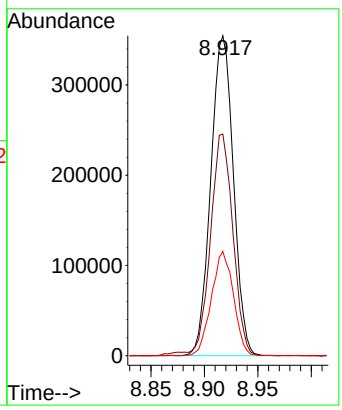




#57
Chlorobenzene
Concen: 14.025 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:112 Resp: 52289

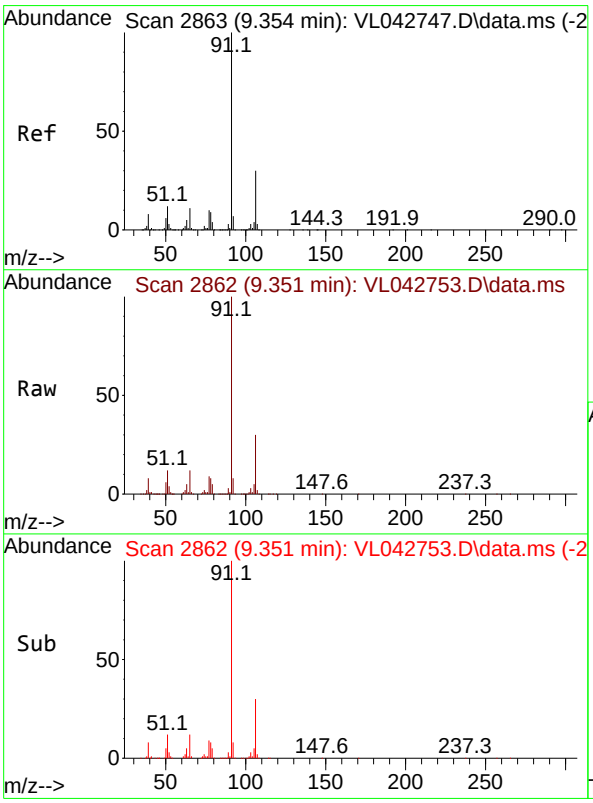
Ion	Ratio	Lower	Upper
112	100		
77	69.2	56.4	84.6
114	32.6	31.2	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

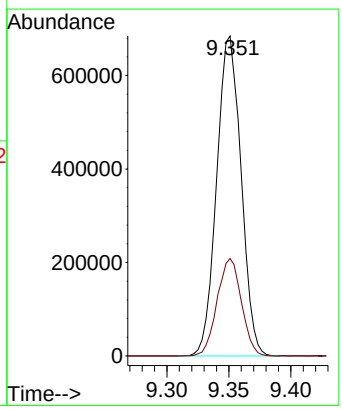
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

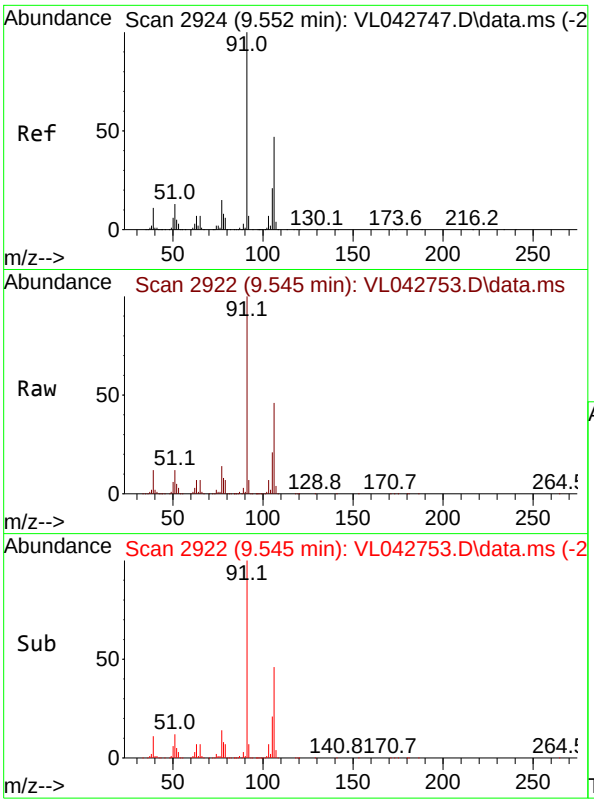


#58
Ethyl Benzene
Concen: 15.454 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 940159

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.8	35.6

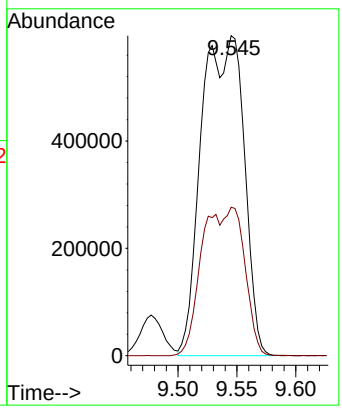




#59
m/p-Xylene
Concen: 30.800 ppbv m
RT: 9.545 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 149793

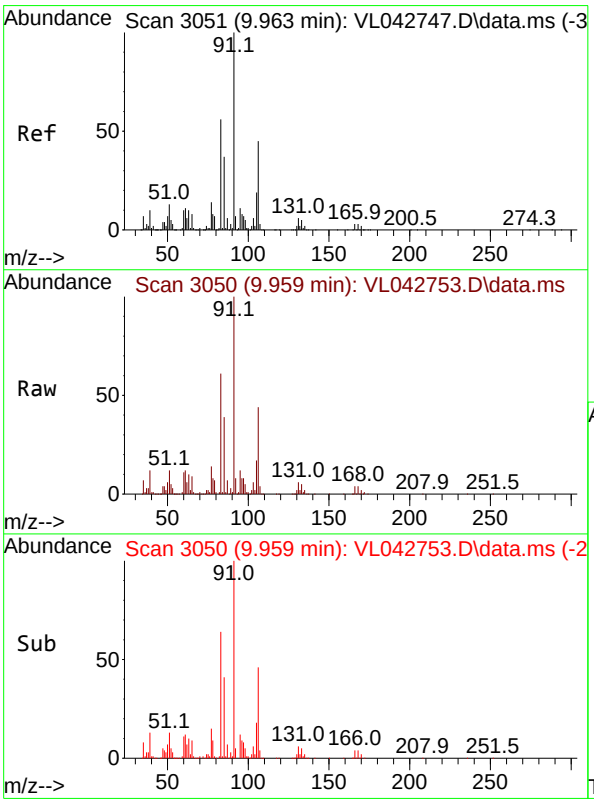
Ion	Ratio	Lower	Upper
91	100		
106	46.6	37.4	56.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

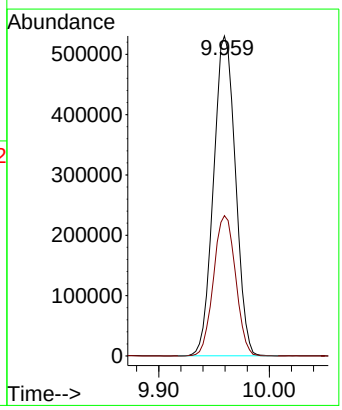
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

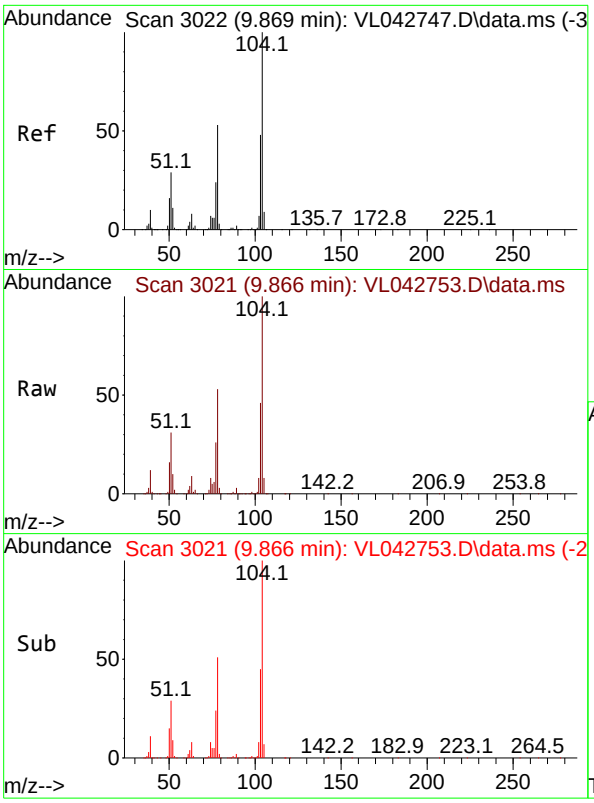


#60
o-Xylene
Concen: 15.030 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 730161

Ion	Ratio	Lower	Upper
91	100		
106	44.1	22.0	66.0

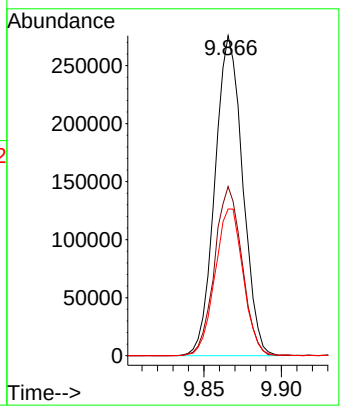




#61
Styrene
Concen: 16.805 ppbv
RT: 9.866 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:104 Resp: 34342

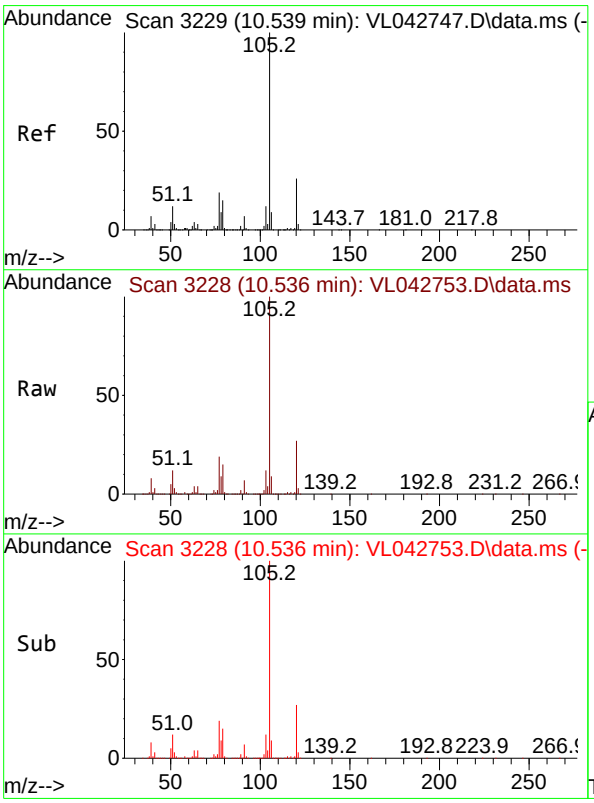
Ion	Ratio	Lower	Upper
104	100		
78	52.3	41.5	62.3
103	46.9	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

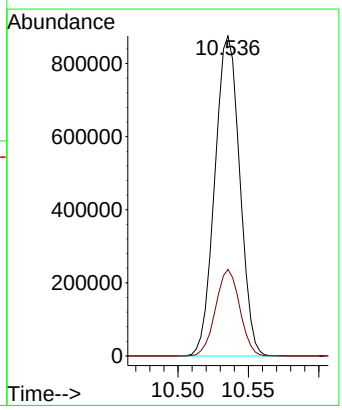
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

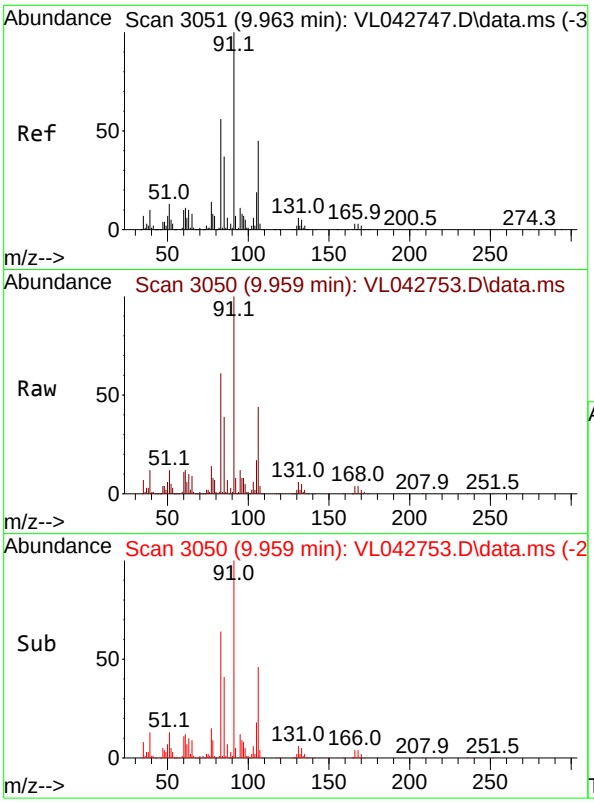


#62
Isopropylbenzene
Concen: 15.049 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:105 Resp: 1078393

Ion	Ratio	Lower	Upper
105	100		
120	26.2	20.5	30.7

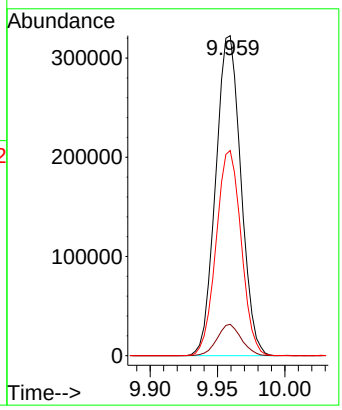




#63
1,1,2,2-Tetrachloroethane
Concen: 13.261 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 83 Resp: 41973

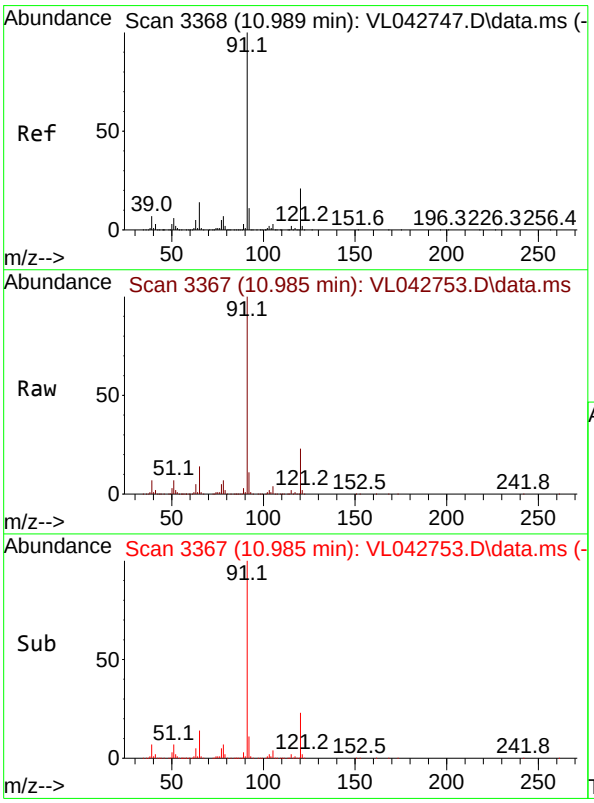
Ion	Ratio	Lower	Upper
83	100		
131	9.5	5.0	15.0
85	63.8	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

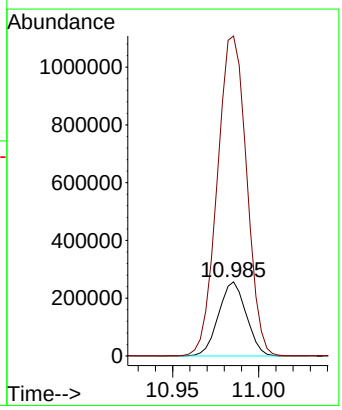
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

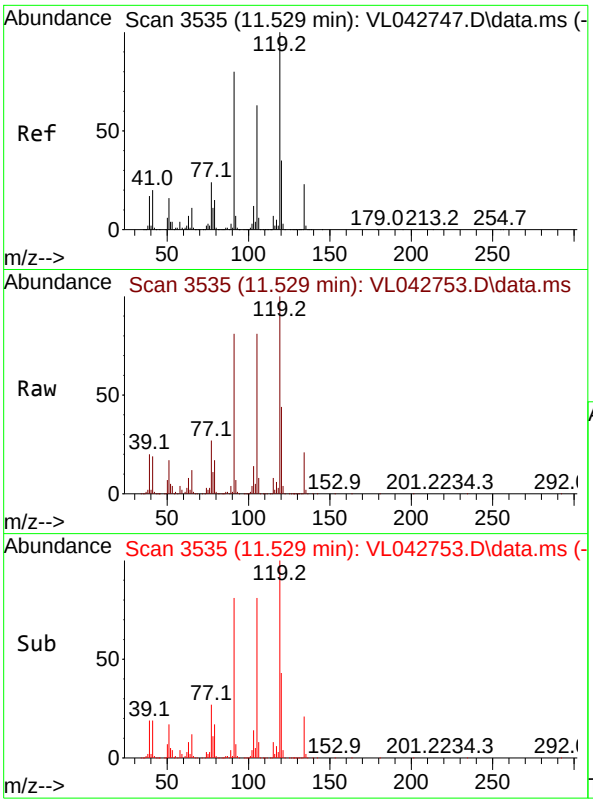


#64
n-propylbenzene
Concen: 15.348 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:120 Resp: 286724

Ion	Ratio	Lower	Upper
120	100		
91	458.1	372.7	559.1

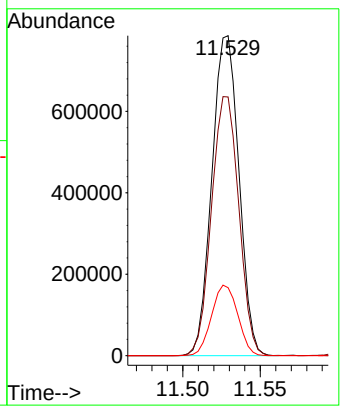




#65
tert-Butylbenzene
Concen: 14.995 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:119 Resp: 95445

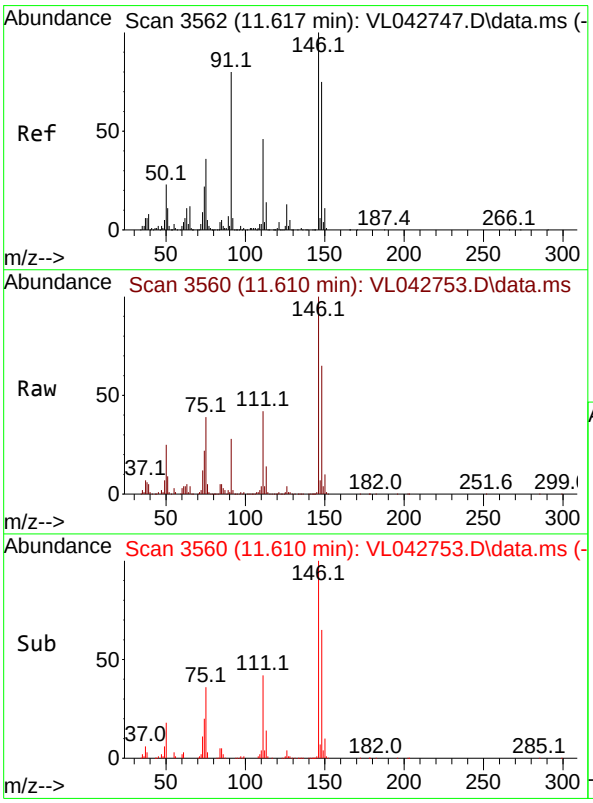
Ion	Ratio	Lower	Upper
119	100		
91	81.9	64.0	96.0
134	21.4	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

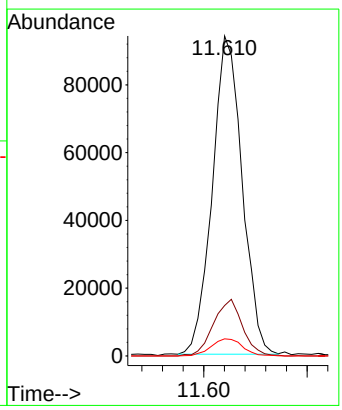
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

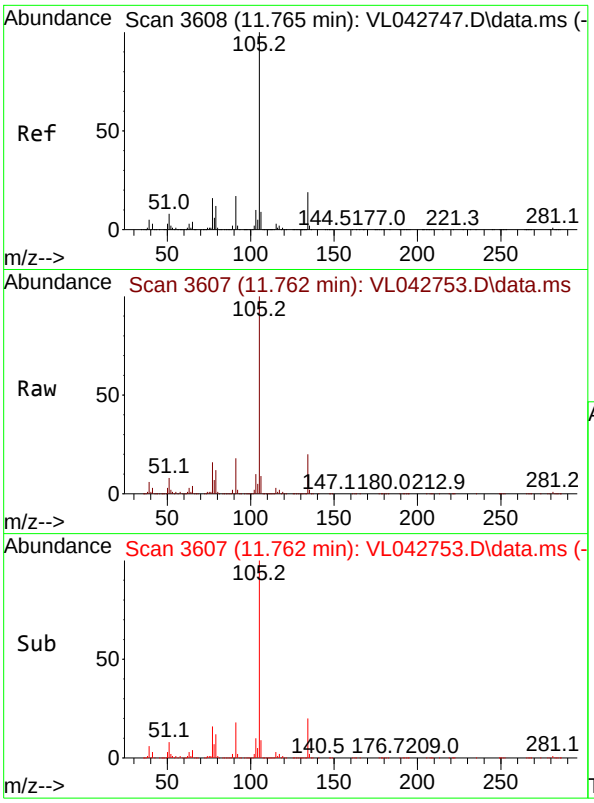


#66
Benzyl Chloride
Concen: 18.031 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 94218

Ion	Ratio	Lower	Upper
91	100		
126	17.3	14.4	21.6
128	5.7	5.2	7.8





#67
sec-Butylbenzene
Concen: 14.662 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

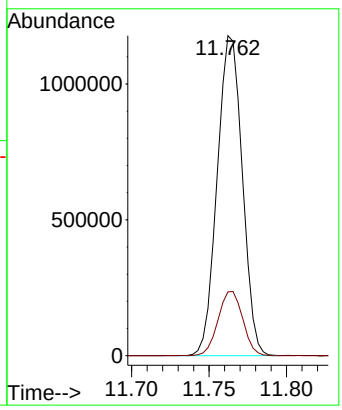
Tgt Ion:105 Resp: 132739

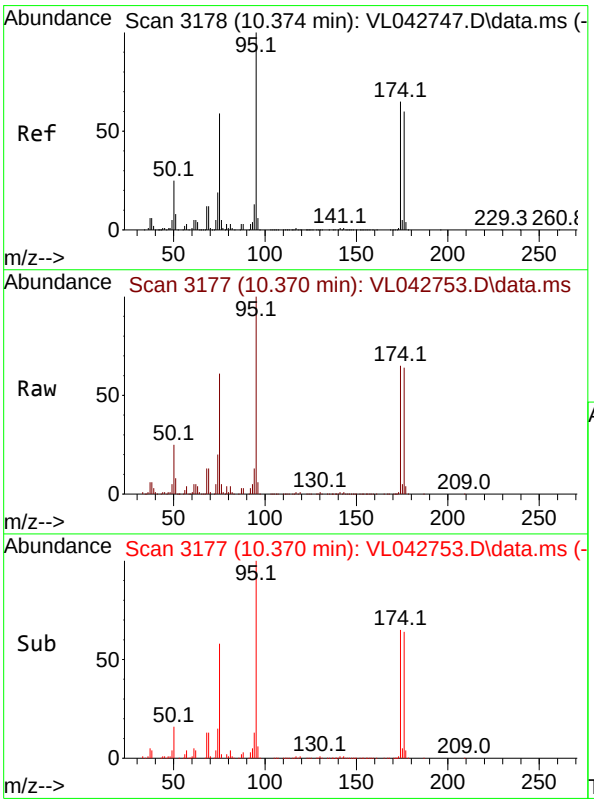
Ion	Ratio	Lower	Upper
105	100		
134	19.8	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

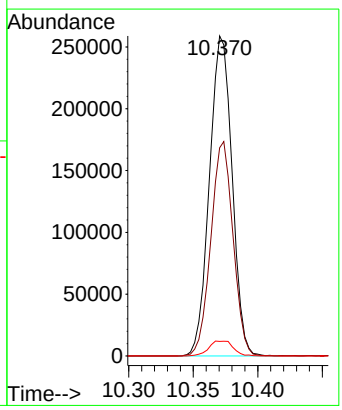


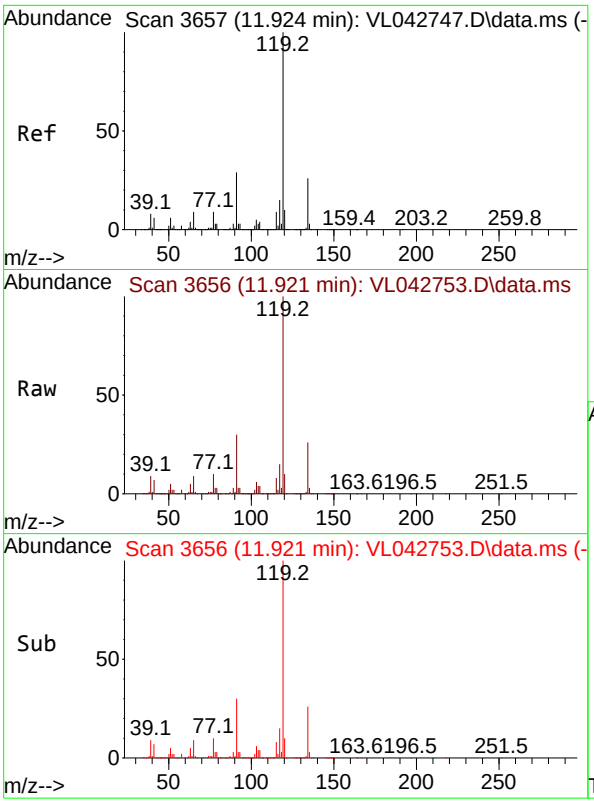


#68
1-Bromo-4-Fluorobenzene
Concen: 10.335 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 95 Resp: 315293

Ion	Ratio	Lower	Upper
95	100		
174	65.7	53.8	80.6
175	5.0	4.0	6.0

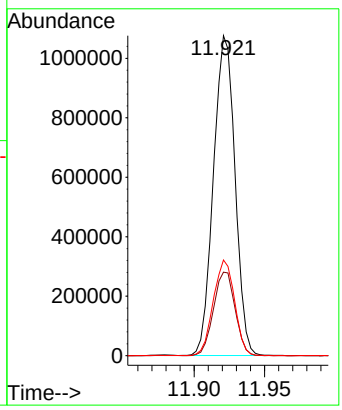




#69
p-Isopropyltoluene
Concen: 15.571 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:119 Resp: 114941

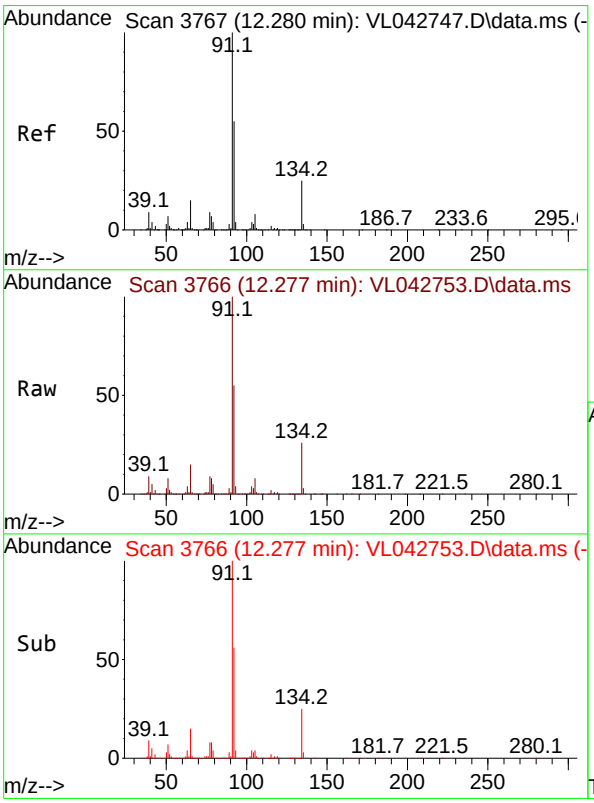
Ion	Ratio	Lower	Upper
119	100		
134	26.3	20.6	31.0
91	29.6	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

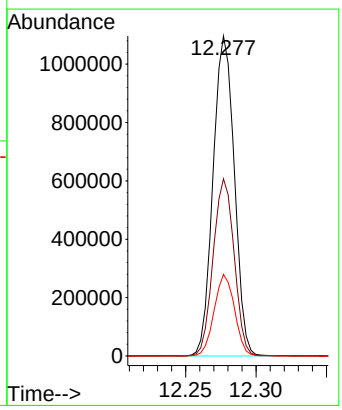
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

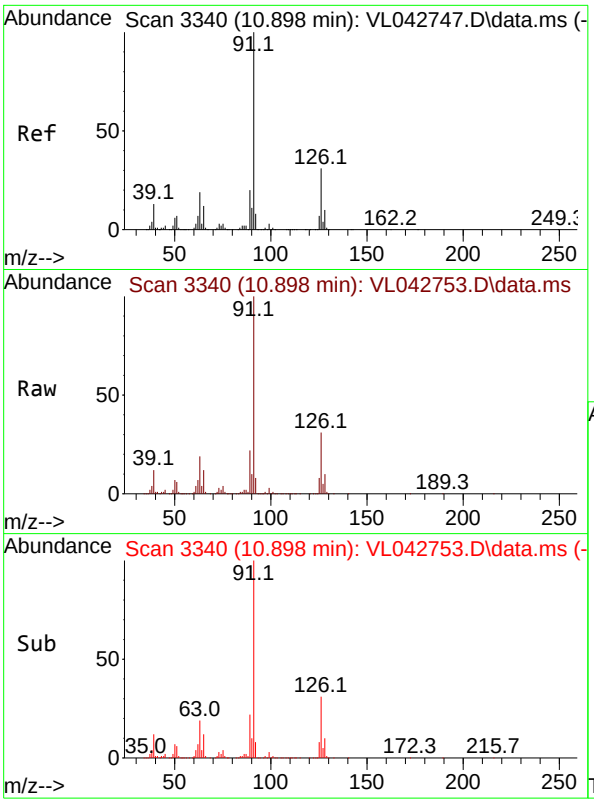


#70
n-Butylbenzene
Concen: 16.159 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 1152207

Ion	Ratio	Lower	Upper
91	100		
92	54.6	43.4	65.2
134	24.5	19.6	29.4

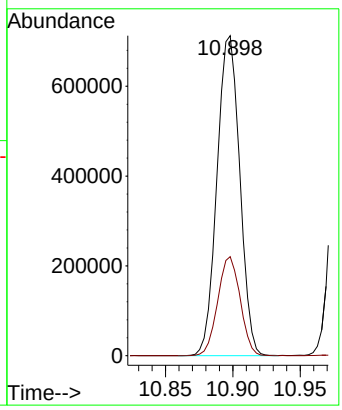




#71
2-Chlorotoluene
Concen: 15.257 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 83833

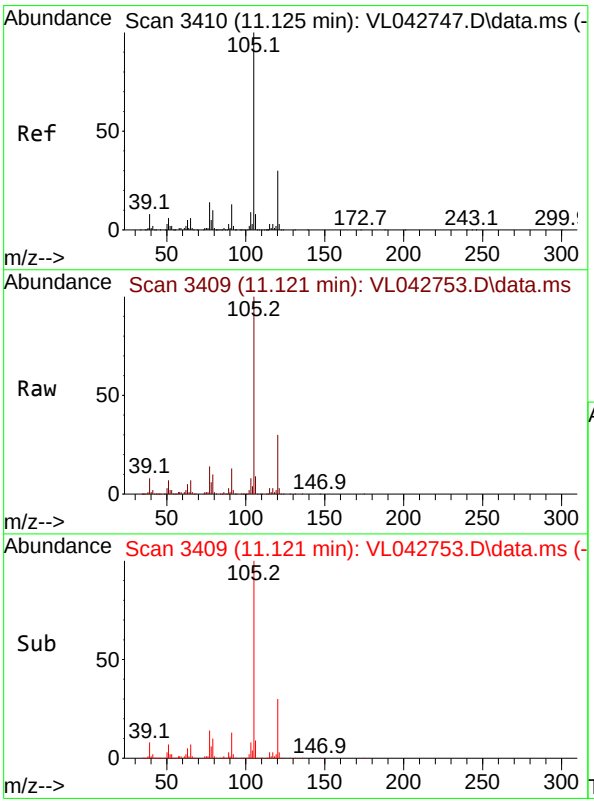
Ion	Ratio	Lower	Upper
91	100		
126	30.5	12.0	48.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

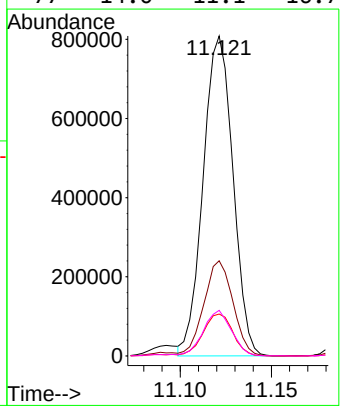
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

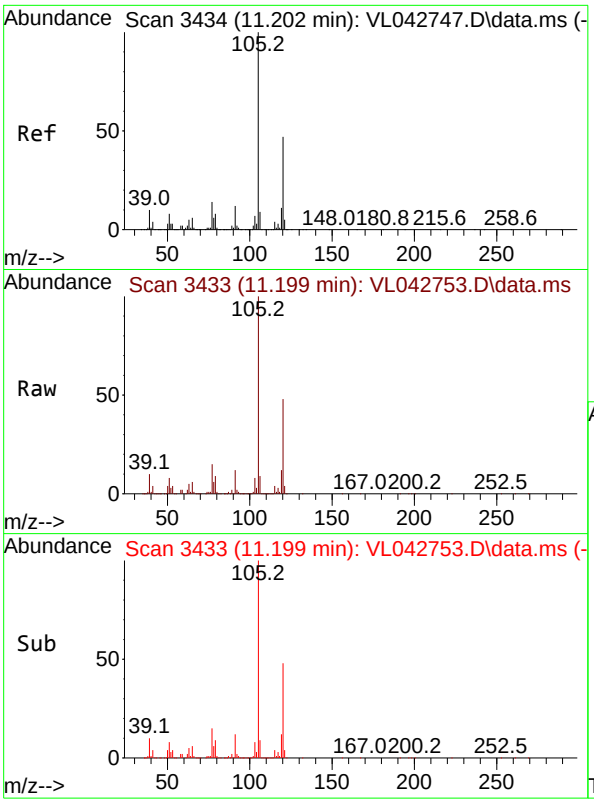


#72
4-Ethyltoluene
Concen: 15.830 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:105 Resp: 918453

Ion	Ratio	Lower	Upper
105	100		
120	30.1	24.4	36.6
91	13.5	10.6	15.8
77	14.0	11.1	16.7

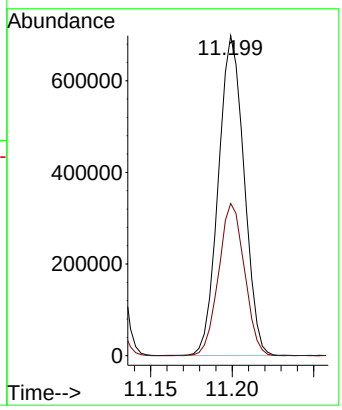




#73
1,3,5-Trimethylbenzene
Concen: 15.977 ppbv
RT: 11.199 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:105 Resp: 76321

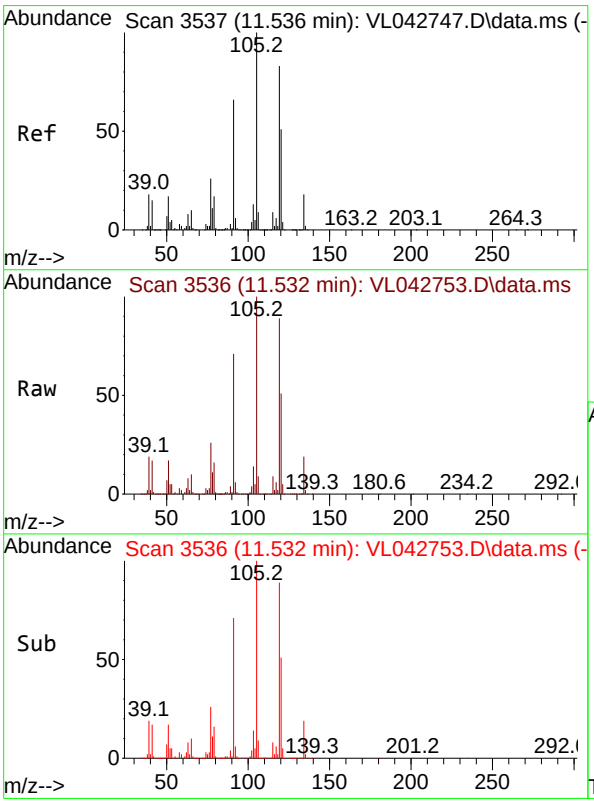
Ion	Ratio	Lower	Upper
105	100		
120	47.5	37.8	56.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

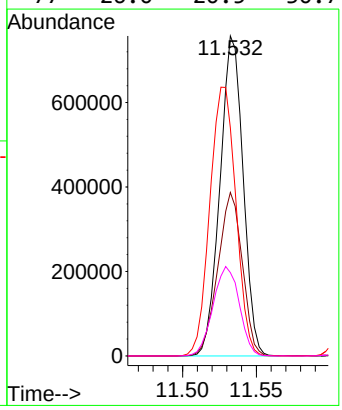
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

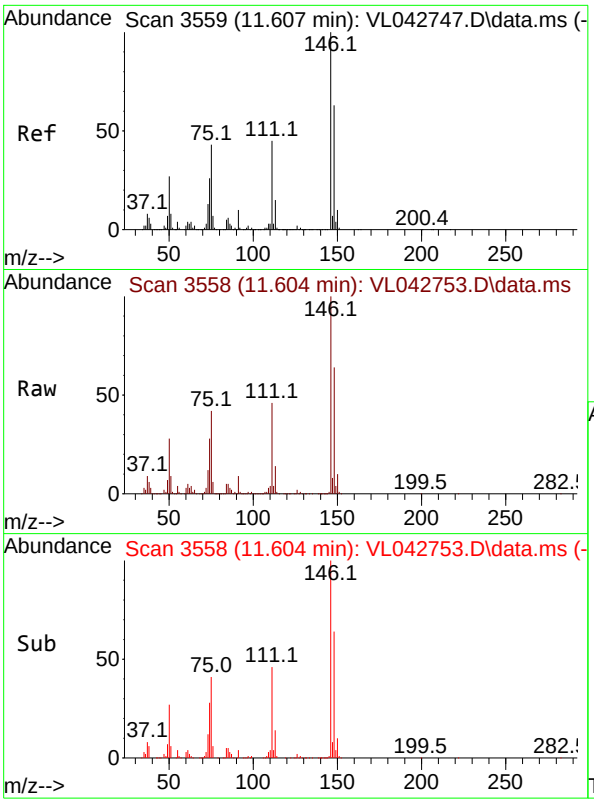


#74
1,2,4-Trimethylbenzene
Concen: 15.873 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:105 Resp: 827222

Ion	Ratio	Lower	Upper
105	100		
120	51.1	40.8	61.2
91	71.2	53.0	79.4
77	26.0	20.5	30.7

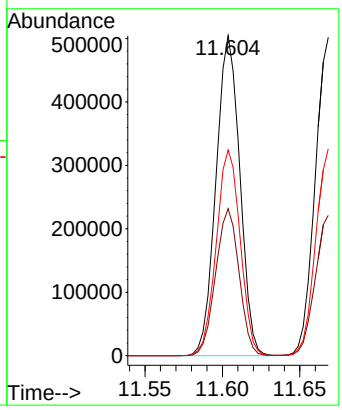




#75
1,3-Dichlorobenzene
Concen: 14.761 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:146 Resp: 53928

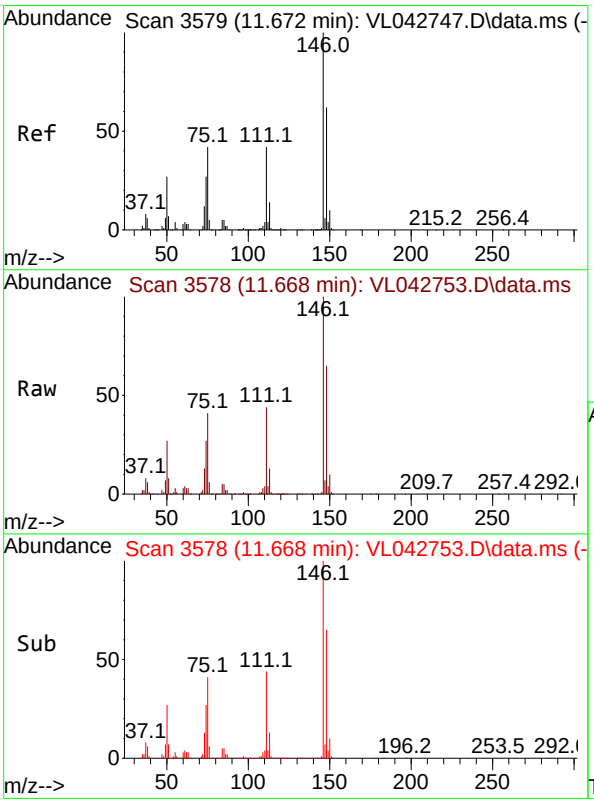
Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.7	68.0
148	64.6	31.9	95.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

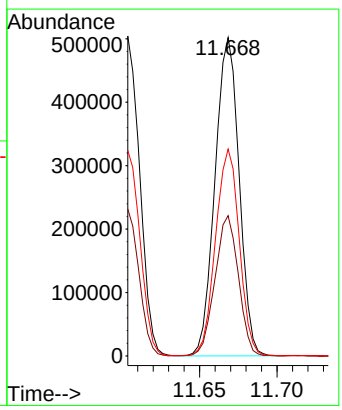
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

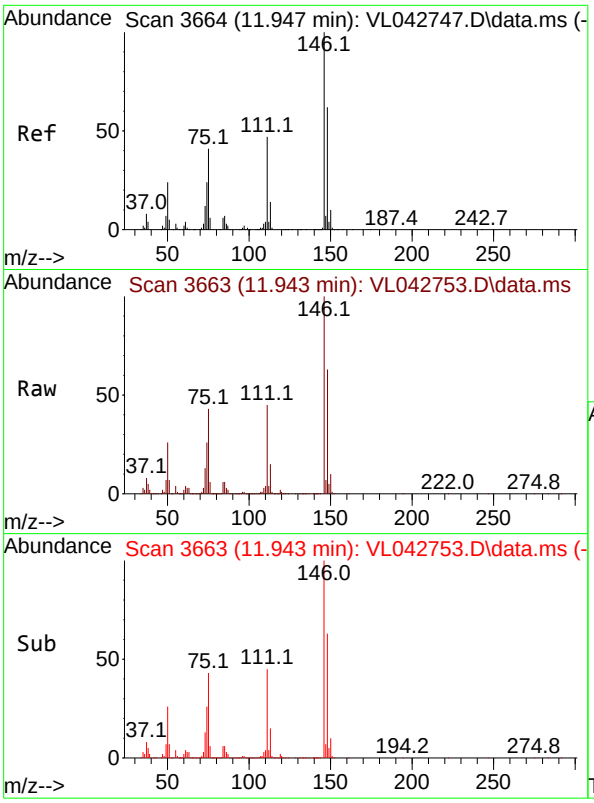


#76
1,4-Dichlorobenzene
Concen: 15.188 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:146 Resp: 542998

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.4	64.2
148	64.3	32.1	96.3

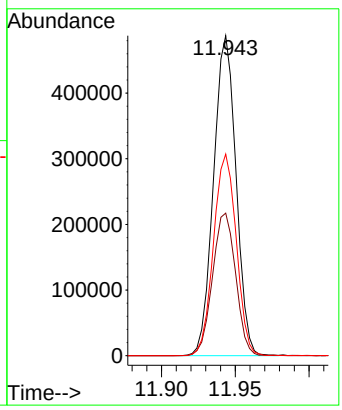




#77
1,2-Dichlorobenzene
Concen: 14.390 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:146 Resp: 51671

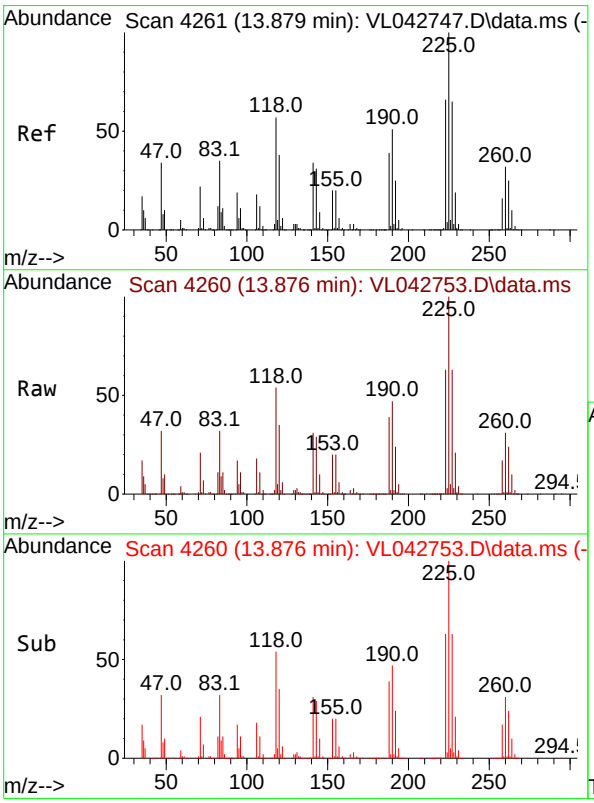
Ion	Ratio	Lower	Upper
146	100		
111	45.9	23.7	71.1
148	64.0	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

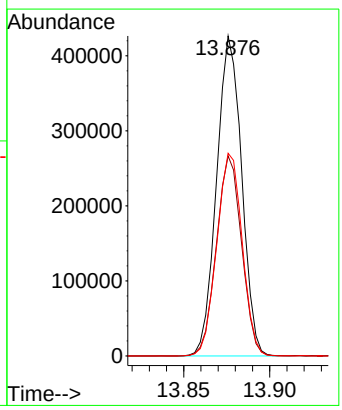
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

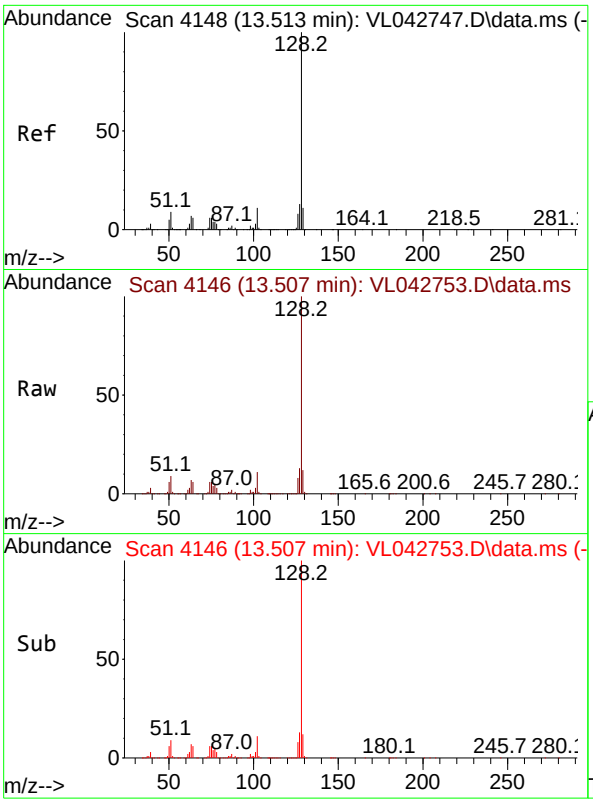


#78
Hexachloro-1,3-Butadiene
Concen: 13.296 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:225 Resp: 432138

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.7	76.1
227	64.3	50.5	75.7

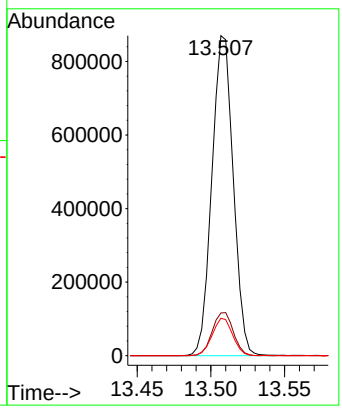




#79
Naphthalene
Concen: 15.265 ppbv
RT: 13.507 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:128 Resp: 87673

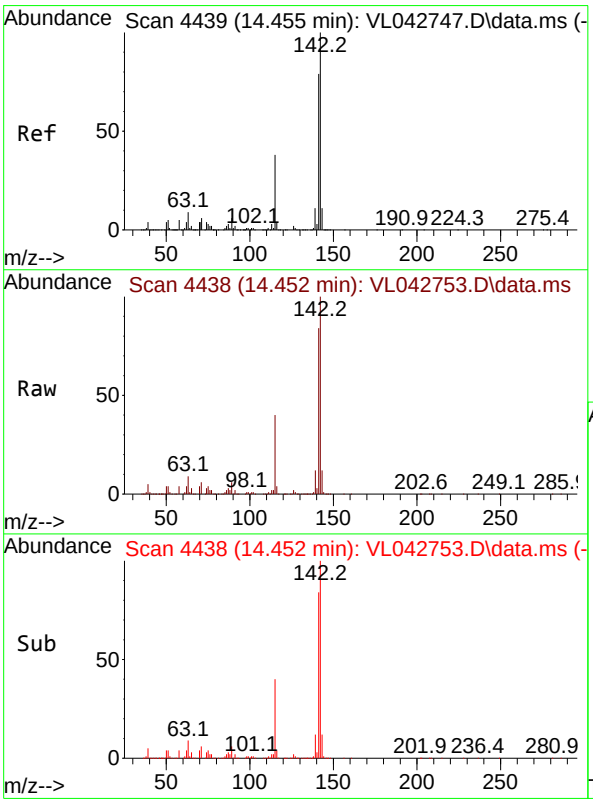
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.5	15.7
129	11.7	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

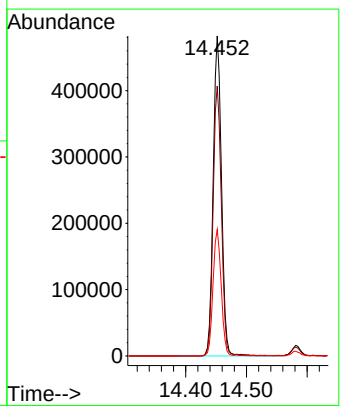
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

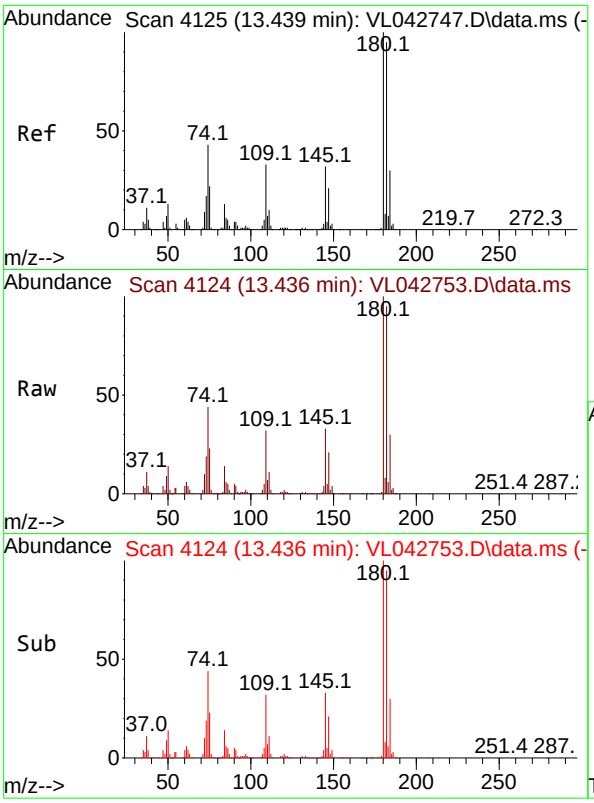


#80
Naphthalene,2-methyl-
Concen: 15.438 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:142 Resp: 456529

Ion	Ratio	Lower	Upper
142	100		
141	84.4	65.8	98.8
115	39.2	31.2	46.8

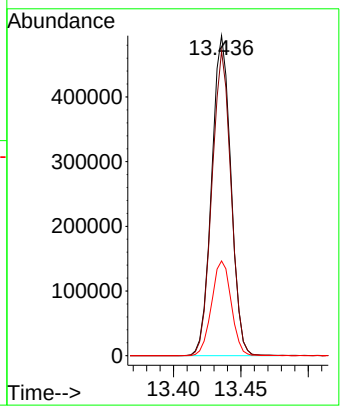




#81
1,2,4-Trichlorobenzene
Concen: 15.200 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:180 Resp: 49057

Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.2	114.2
184	30.3	24.8	37.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042754.D
Acq On : 23 Jul 2025 13:00
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 05:01:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	152358	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.953	114	438604	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	393042	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	298283	9.583	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.800%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.583	62	837	0.104	ppbv #	60
32) 1,1,1-Trichloroethane	3.363	97	3550	0.108	ppbv	96
35) Carbon Tetrachloride	3.758	117	3035m	0.093	ppbv	
38) Trichloroethene	4.555	130	2207m	0.110	ppbv	
52) Tetrachloroethene	8.222	164	1852m	0.107	ppbv	
54) 1,2-Dibromoethane	7.665	107	2184m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	3084m	0.095	ppbv	
79) Naphthalene	13.514	128	2509	0.475	ppbv #	96

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

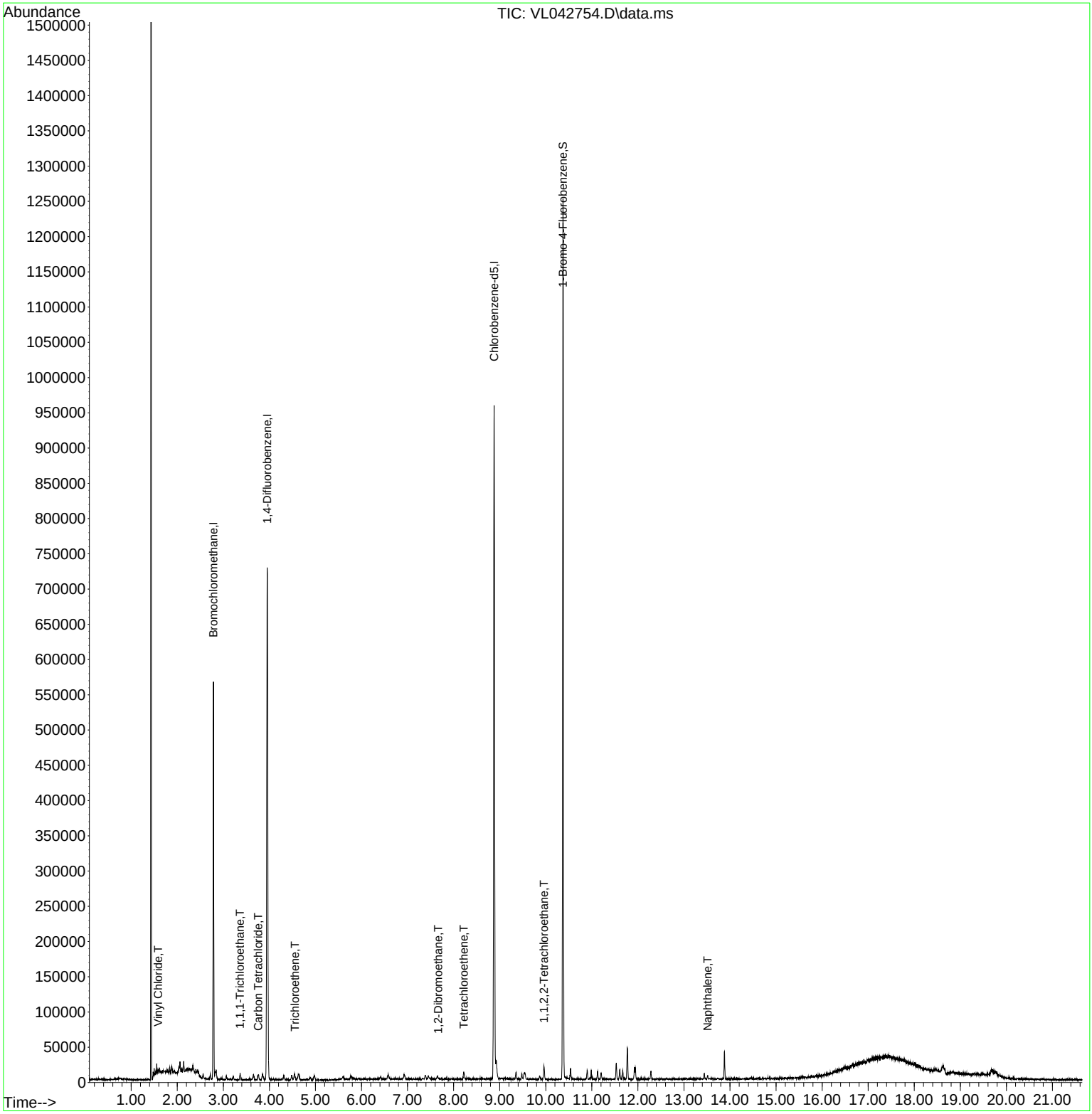
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042754.D
Acq On : 23 Jul 2025 13:00
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

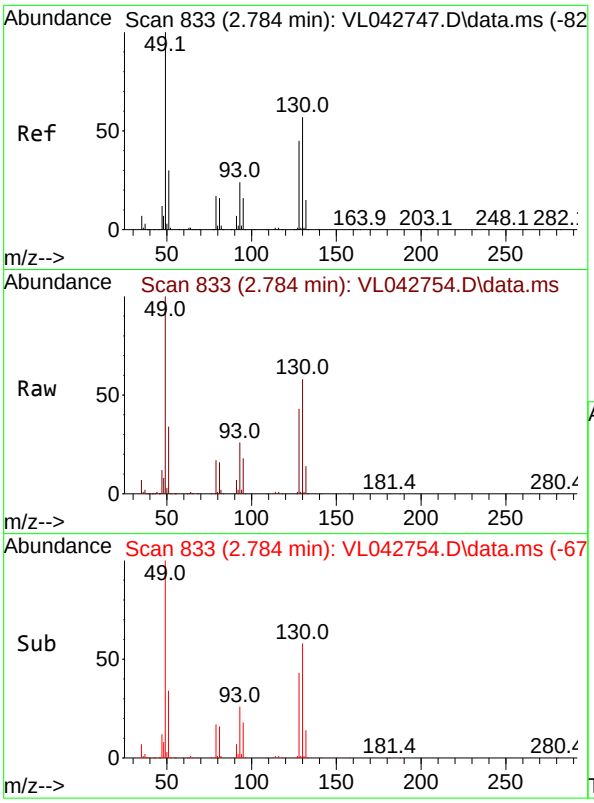
Quant Time: Jul 24 05:01:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

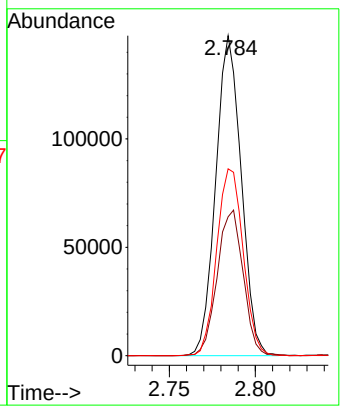




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 49 Resp: 15235

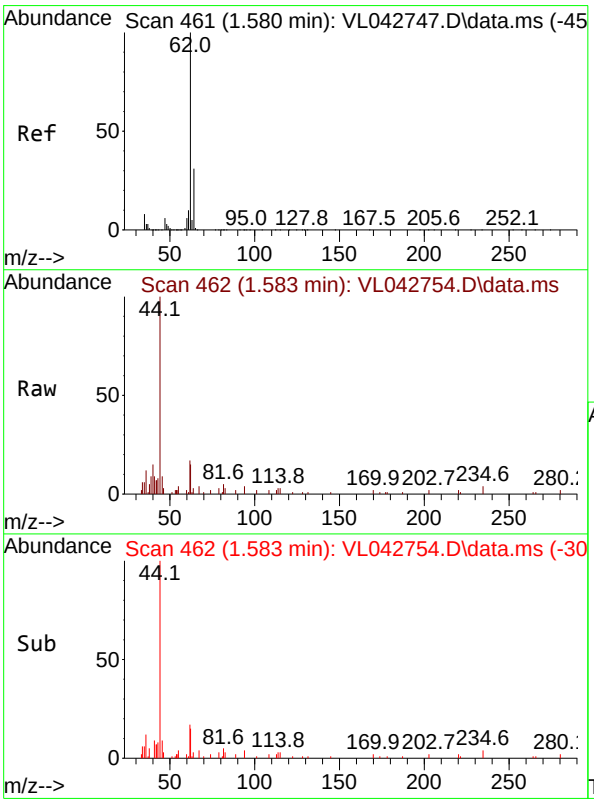
Ion	Ratio	Lower	Upper
49	100		
128	46.3	23.6	71.0
130	60.6	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

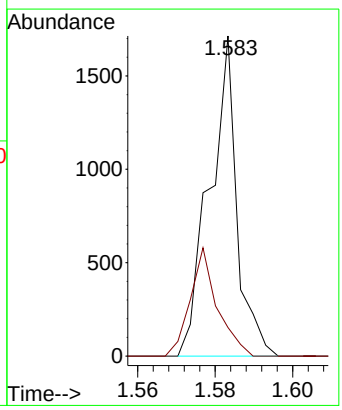
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

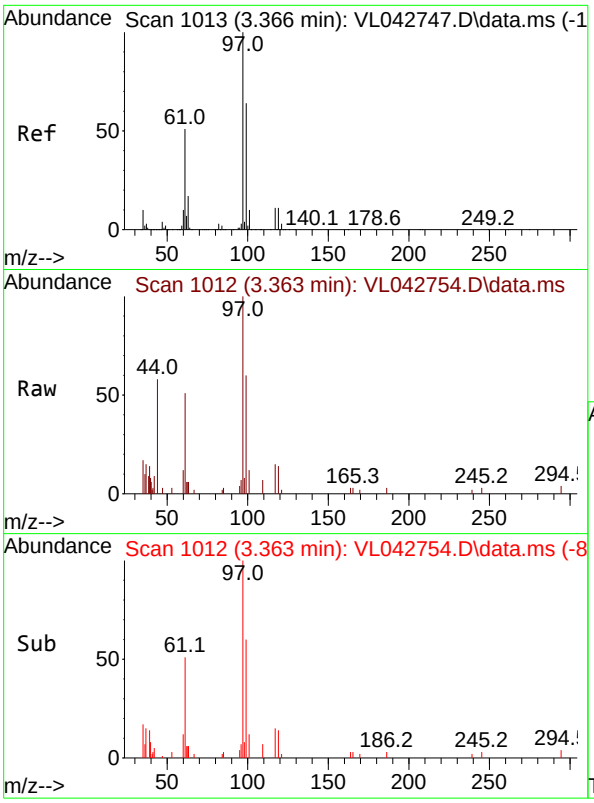


#5
Vinyl Chloride
Concen: 0.104 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 62 Resp: 837

Ion	Ratio	Lower	Upper
62	100		
64	8.9	24.5	36.7#

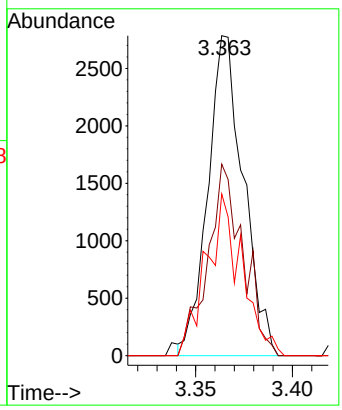




#32
1,1,1-Trichloroethane
Concen: 0.108 ppbv
RT: 3.363 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 97 Resp: 355

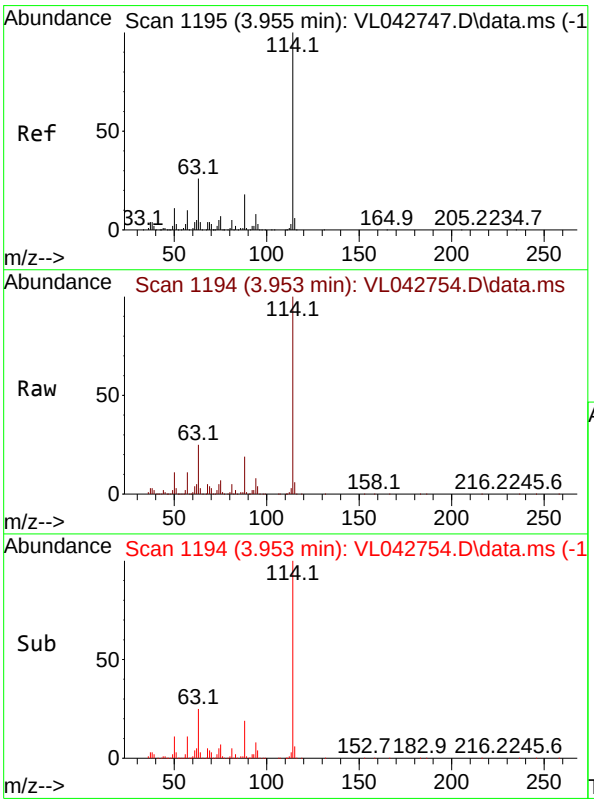
Ion	Ratio	Lower	Upper
97	100		
99	59.4	51.0	76.6
61	50.4	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

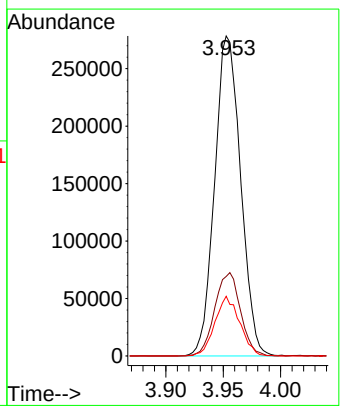
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

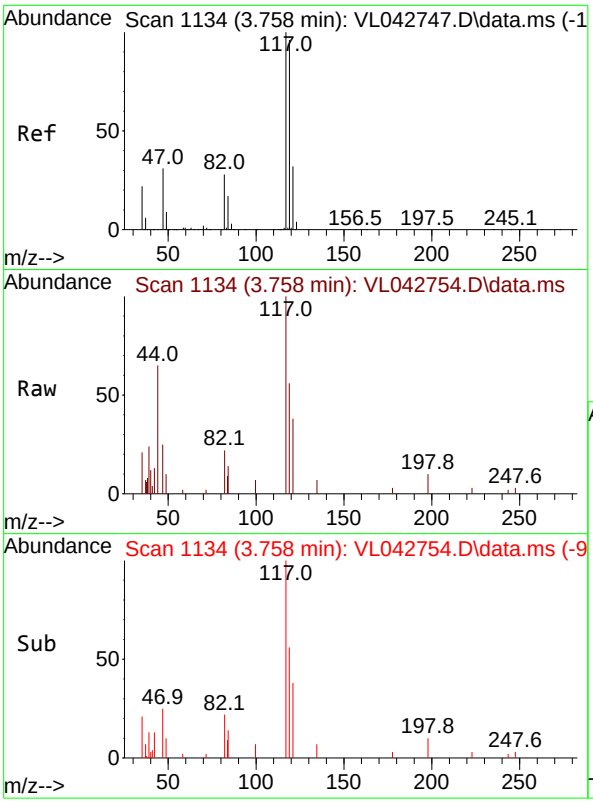


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.953 min Scan# 1194
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:114 Resp: 438604

Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.5	30.7
88	17.8	14.0	21.0

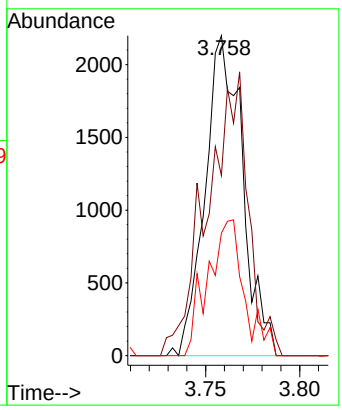




#35
Carbon Tetrachloride
Concen: 0.093 ppbv m
RT: 3.758 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:117 Resp: 303

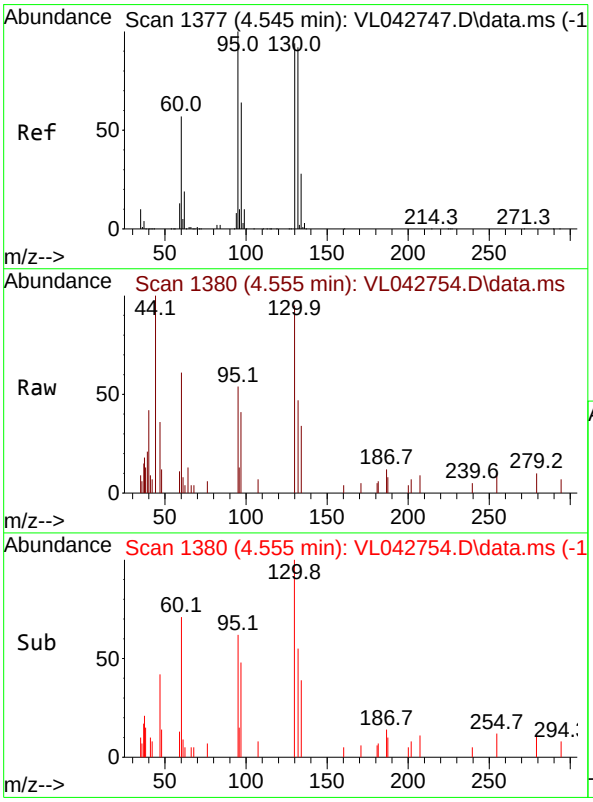
Ion	Ratio	Lower	Upper
117	100		
119	56.3	77.1	115.7#
121	38.3	25.5	38.3#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

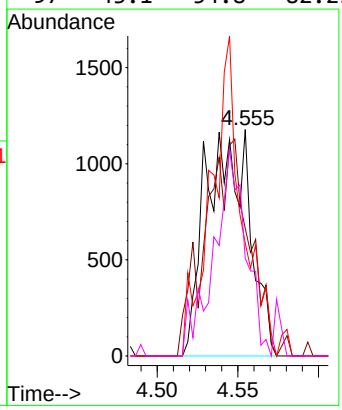
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

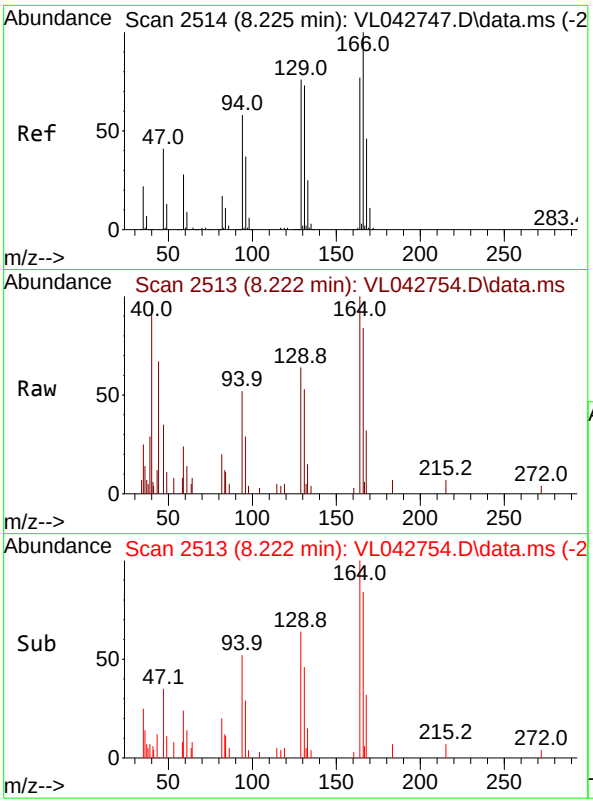


#38
Trichloroethene
Concen: 0.110 ppbv m
RT: 4.555 min Scan# 1380
Delta R.T. 0.010 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:130 Resp: 2207

Ion	Ratio	Lower	Upper
130	100		
95	56.4	85.4	128.2#
132	49.9	78.2	117.2#
97	43.1	54.8	82.2#

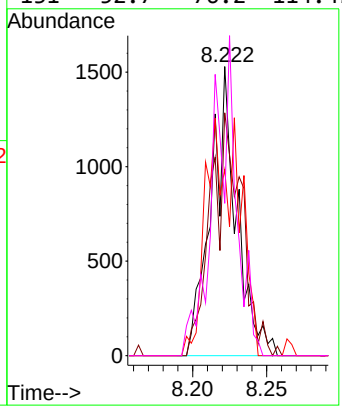




#52
Tetrachloroethene
Concen: 0.107 ppbv m
RT: 8.222 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:164 Resp: 185

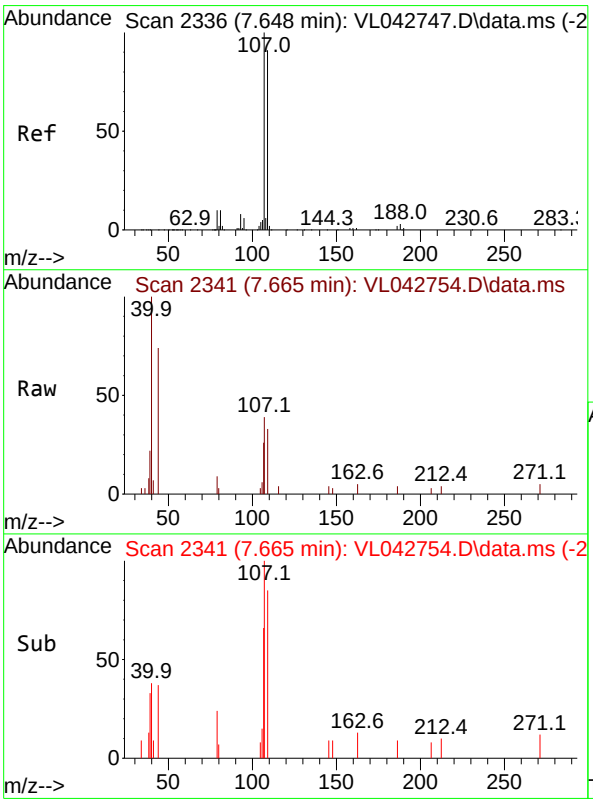
Ion	Ratio	Lower	Upper
164	100		
166	84.0	104.0	156.0#
129	64.3	79.2	118.8#
131	52.7	76.2	114.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

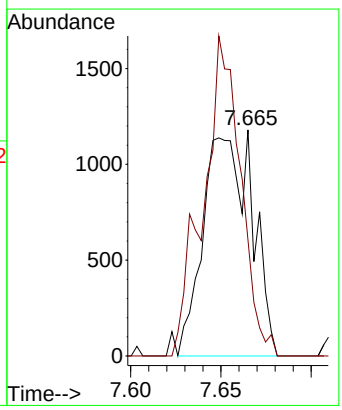
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

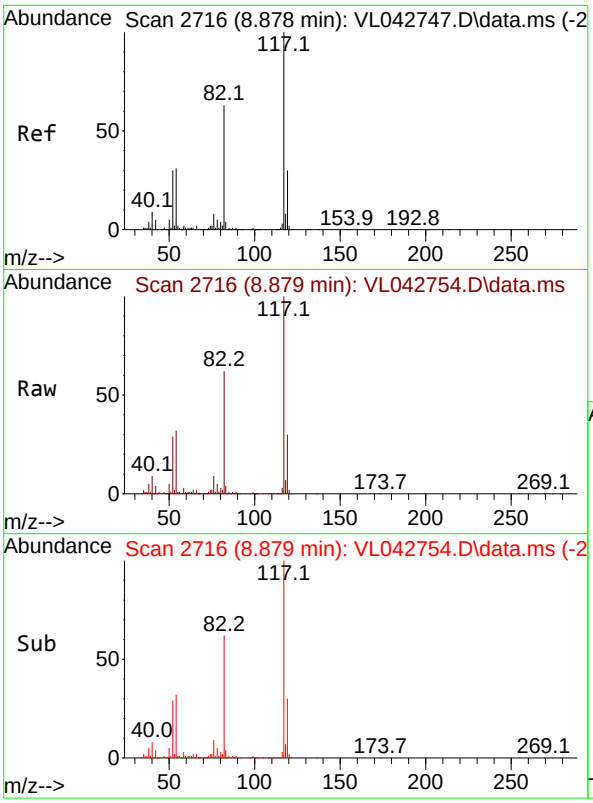


#54
1,2-Dibromoethane
Concen: 0.094 ppbv m
RT: 7.665 min Scan# 2341
Delta R.T. 0.016 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:107 Resp: 2184

Ion	Ratio	Lower	Upper
107	100		
109	85.2	72.7	109.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

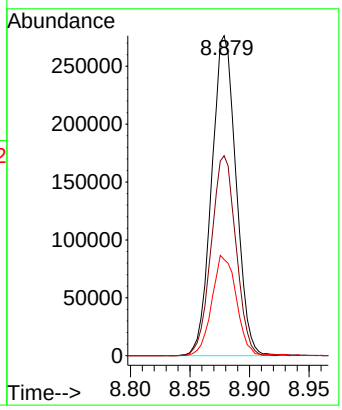
Tgt Ion:117 Resp: 39304

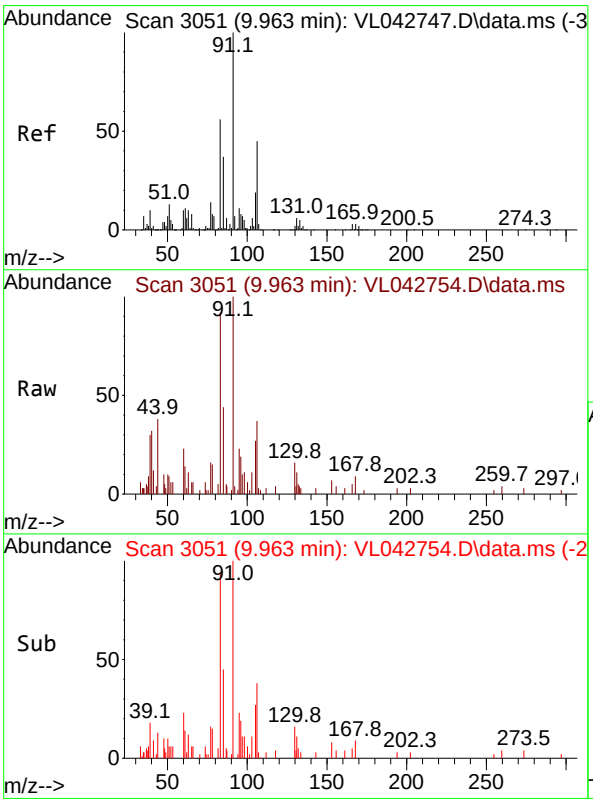
Ion	Ratio	Lower	Upper
117	100		
82	63.6	53.3	79.9
119	31.7	25.8	38.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

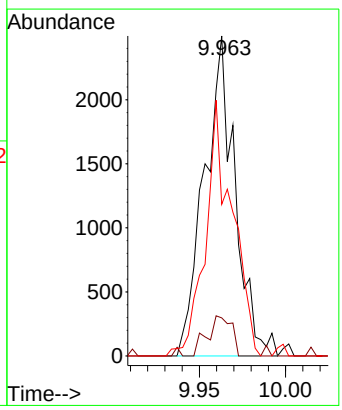


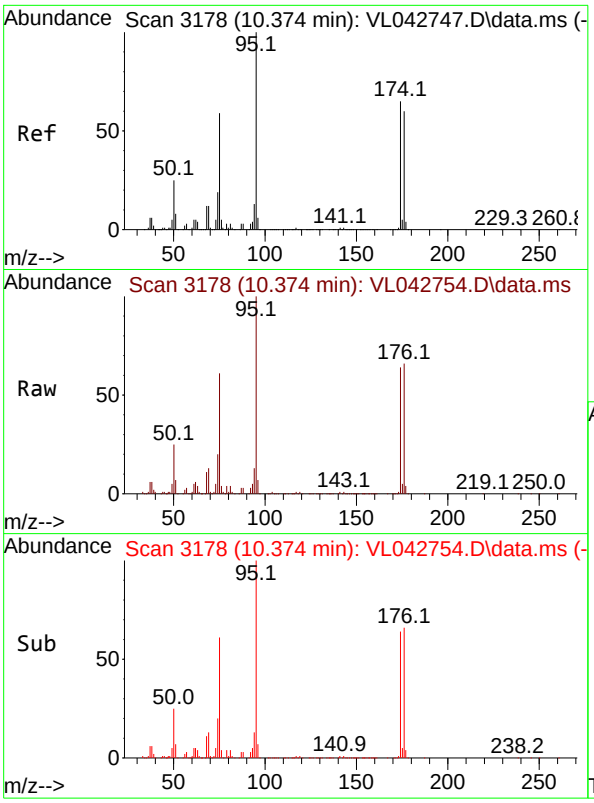


#63
1,1,2,2-Tetrachloroethane
Concen: 0.095 ppbv m
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 83 Resp: 3084

Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.0	15.0
85	70.7	32.6	97.7

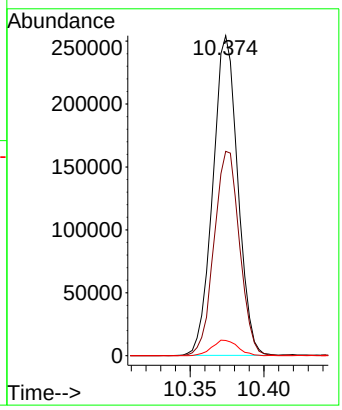




#68
1-Bromo-4-Fluorobenzene
Concen: 9.583 ppbv
RT: 10.374 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 95 Resp: 29828

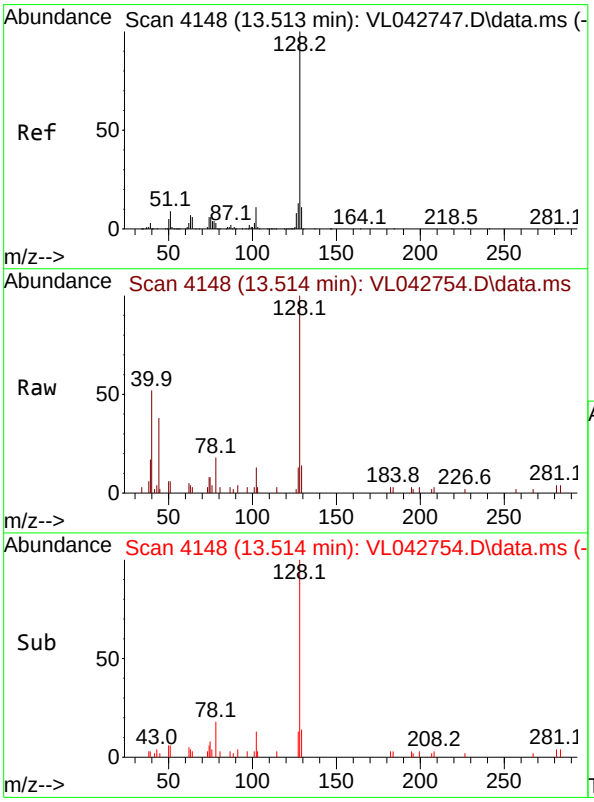
Ion	Ratio	Lower	Upper
95	100		
174	65.8	53.8	80.6
175	5.0	4.0	6.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

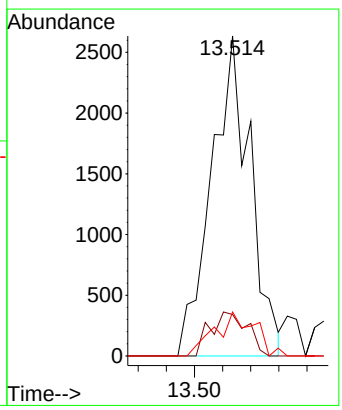
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#79
Naphthalene
Concen: 0.475 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:128 Resp: 2509

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	13.7	8.6	13.0#



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042755.D
Acq On : 23 Jul 2025 14:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 05:28:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	148064	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	421747	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	380539	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	313324	10.397	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	185425	9.472	ppbv	99
3) Chlorodifluoromethane	1.473	51	242908	9.525	ppbv	99
4) Chloromethane	1.531	50	72221	9.119	ppbv	98
5) Vinyl Chloride	1.577	62	64673	8.265	ppbv	100
6) Bromomethane	1.664	94	27096	8.957	ppbv	99
7) Chloroethane	1.700	64	26125	8.641	ppbv	99
8) Dichlorotetrafluoroethane	1.551	85	148833	9.244	ppbv	100
9) Propene	1.479	41	86343	9.316	ppbv	95
10) Heptane	4.965	43	247934	9.921	ppbv	99
11) Trichlorofluoromethane	1.874	101	179643	8.902	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.136	101	138363	9.023	ppbv	98
13) Ethanol	1.719	45	7690	10.243	ppbv	92
14) Bromoethene	1.777	108	48972	9.020	ppbv	98
15) Acetone	1.832	43	149742	7.324	ppbv	99
16) 1,3-Butadiene	1.606	39	79112	9.072	ppbv	98
17) tert-Butyl alcohol	2.036	59	170096	9.225	ppbv	98
18) 1,1-Dichloroethene	2.030	96	62149	8.970	ppbv	96
19) Isopropyl Alcohol	1.881	45	97844	9.006	ppbv	99
20) Methylene Chloride	2.056	84	53608	8.320	ppbv	98
21) Allyl Chloride	2.091	41	118958	9.441	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	69482	9.322	ppbv	97
23) Vinyl Acetate	2.457	43	261938	10.568	ppbv	98
24) 1,1-Dichloroethane	2.402	63	137586	8.993	ppbv	99
25) Ethyl Acetate	2.829	43	444208	9.816	ppbv	99
26) Hexane	2.819	57	190523	9.597	ppbv	98
27) Carbon Disulfide	2.146	76	164040	9.652	ppbv	99
28) Methyl tert-Butyl Ether	2.434	73	85480	9.114	ppbv	98
29) Chloroform	2.842	83	295808	9.643	ppbv	99
30) Cyclohexane	3.849	84	164554	9.773	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	199970	9.802	ppbv	99
32) 1,1,1-Trichloroethane	3.360	97	293074	9.172	ppbv	100
34) 2-Butanone	2.551	43	294837	9.869	ppbv	99
35) Carbon Tetrachloride	3.755	117	310129	9.900	ppbv	96
36) Benzene	3.648	78	393085	9.834	ppbv	99
37) 1,2-Dichloroethane	3.211	62	238249	9.895	ppbv	100
38) Trichloroethene	4.538	130	178600	9.301	ppbv	97
39) 1,2-Dichloropropane	4.305	63	141316	9.578	ppbv	95
40) 1,4-Dioxane	4.570	88	65204	9.481	ppbv #	94
41) Tetrahydrofuran	3.046	42	158159	10.404	ppbv	99
42) Bromodichloromethane	4.477	83	321549	10.254	ppbv	98
43) Methyl Methacrylate	4.865	69	152551	10.738	ppbv	97
44) 2,2,4-Trimethylpentane	4.629	57	649720	9.973	ppbv	99
45) t-1,3-Dichloropropene	6.402	75	169563	10.643	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042755.D
Acq On : 23 Jul 2025 14:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 24 05:28:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	215596	10.679	ppbv		97
47) 1,1,2-Trichloroethane	6.564	97	154882m	9.848	ppbv		
48) Dibromochloromethane	7.380	129	261174	10.460	ppbv		98
49) Bromoform	9.477	173	233573	10.729	ppbv		99
50) 4-Methyl-2-Pentanone	5.736	43	396506	10.303	ppbv		100
51) 2-Hexanone	7.428	43	320740	11.029	ppbv	#	100
52) Tetrachloroethene	8.218	164	151810	9.163	ppbv		98
53) Toluene	6.927	91	441829	10.294	ppbv		100
54) 1,2-Dibromoethane	7.645	107	229563	10.331	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.920	131	193089	9.759	ppbv		99
57) Chlorobenzene	8.914	112	354412	9.623	ppbv		96
58) Ethyl Benzene	9.348	91	631247	10.504	ppbv		99
59) m/p-Xylene	9.545	91	1016249m	21.160	ppbv		
60) o-Xylene	9.959	91	503849	10.499	ppbv		99
61) Styrene	9.866	104	225799	11.185	ppbv		99
62) Isopropylbenzene	10.536	105	736044	10.398	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.956	83	287775	9.340	ppbv		99
64) n-propylbenzene	10.982	120	193034	10.460	ppbv		98
65) tert-Butylbenzene	11.526	119	660966	10.512	ppbv		99
66) Benzyl Chloride	11.610	91	60055	11.634	ppbv		99
67) sec-Butylbenzene	11.762	105	914046	10.221	ppbv		100
69) p-Isopropyltoluene	11.921	119	778601	10.677	ppbv		99
70) n-Butylbenzene	12.277	91	788734	11.197	ppbv		99
71) 2-Chlorotoluene	10.895	91	563193	10.376	ppbv		99
72) 4-Ethyltoluene	11.121	105	617355	10.772	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	516735	10.951	ppbv		100
74) 1,2,4-Trimethylbenzene	11.532	105	567186	11.017	ppbv		98
75) 1,3-Dichlorobenzene	11.604	146	366855	10.165	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	364937	10.333	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	348999	9.839	ppbv		99
78) Hexachloro-1,3-Butadiene	13.876	225	291861	9.091	ppbv		99
79) Naphthalene	13.510	128	578563	10.342	ppbv		99
80) Naphthalene,2-methyl-	14.452	142	277798	9.951	ppbv		99
81) 1,2,4-Trichlorobenzene	13.436	180	319897	10.181	ppbv		100

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

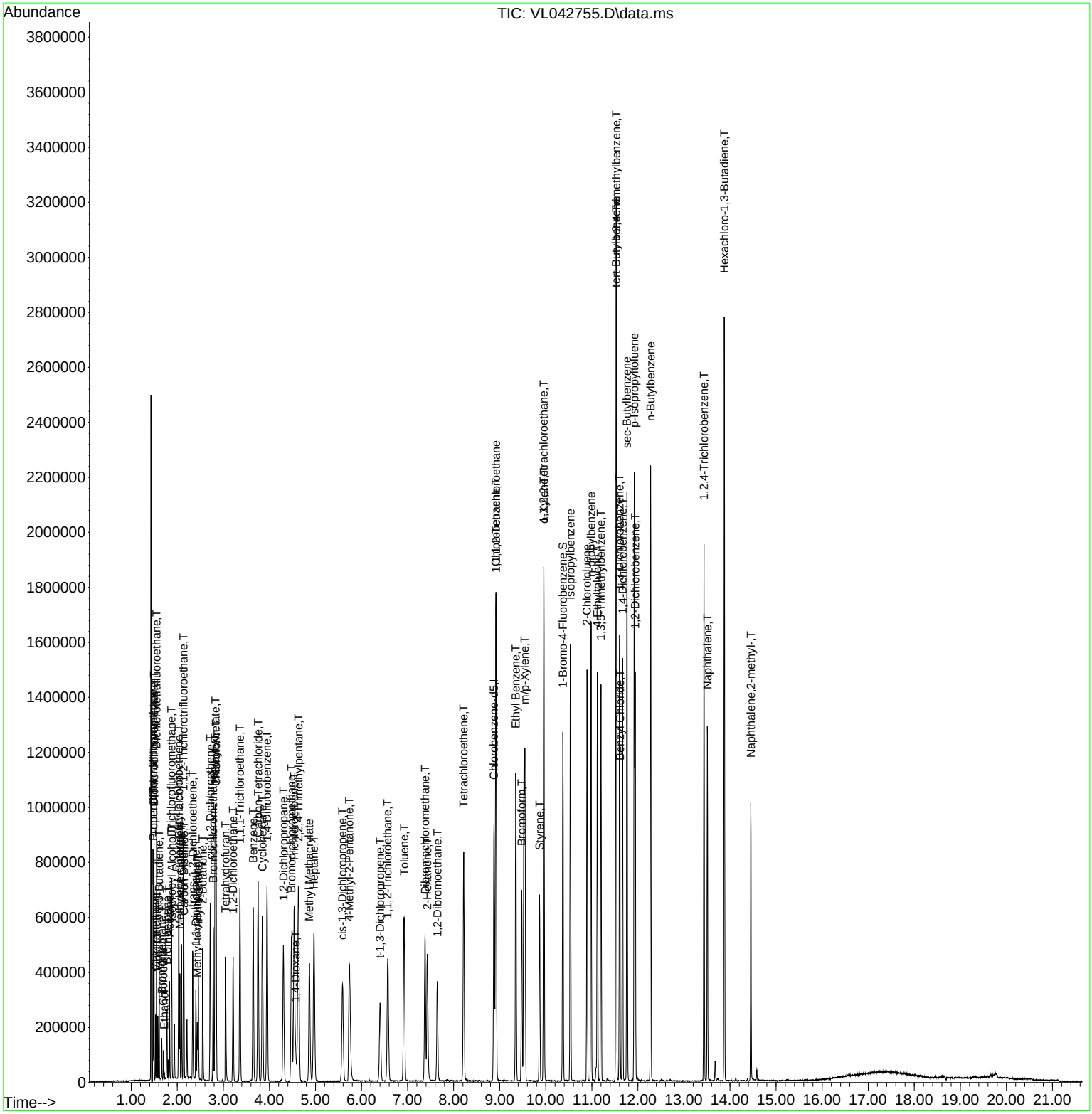
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042755.D
Acq On : 23 Jul 2025 14:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

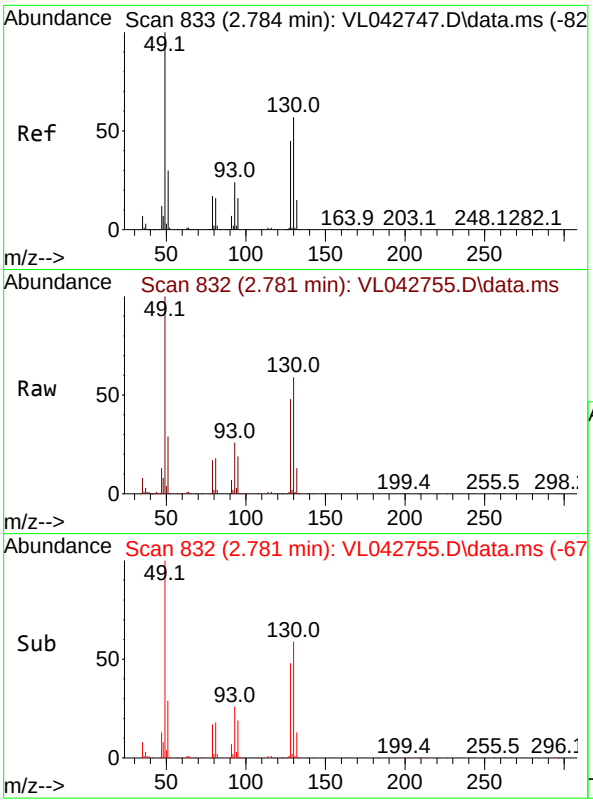
Quant Time: Jul 24 05:28:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

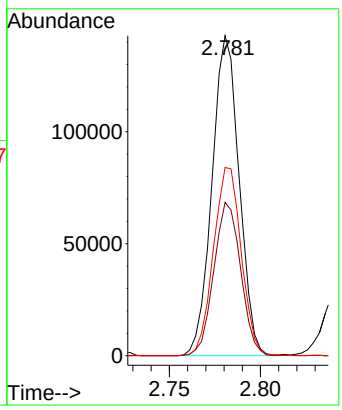




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 49 Resp: 14806

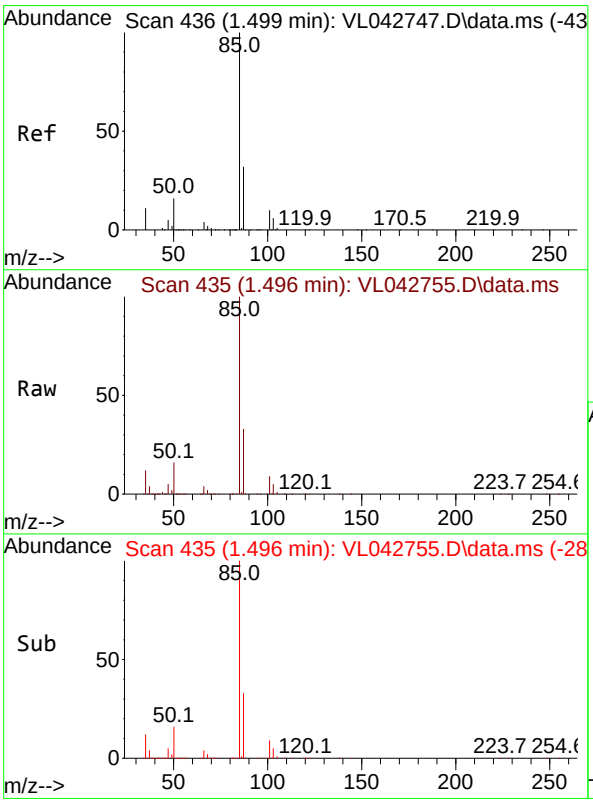
Ion	Ratio	Lower	Upper
49	100		
128	47.4	23.6	71.0
130	60.2	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

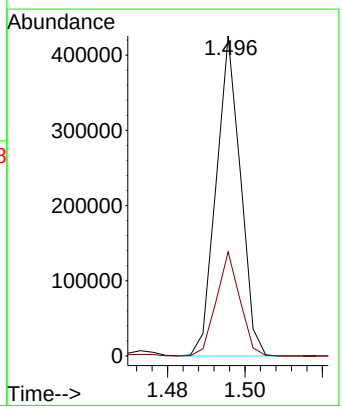
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

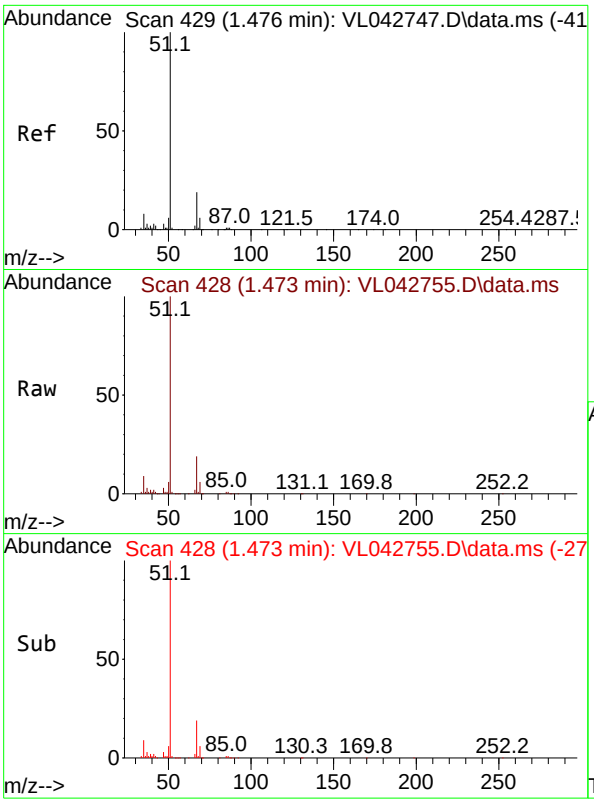


#2
Dichlorodifluoromethane
Concen: 9.472 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 85 Resp: 185425

Ion	Ratio	Lower	Upper
85	100		
87	32.6	25.4	38.2

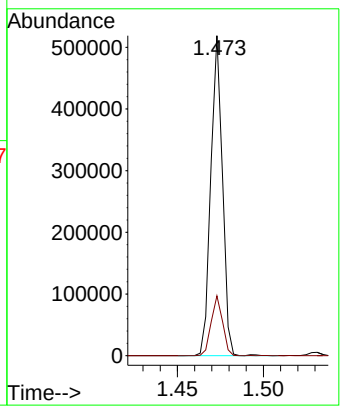




#3
Chlorodifluoromethane
Concen: 9.525 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 51 Resp: 24290

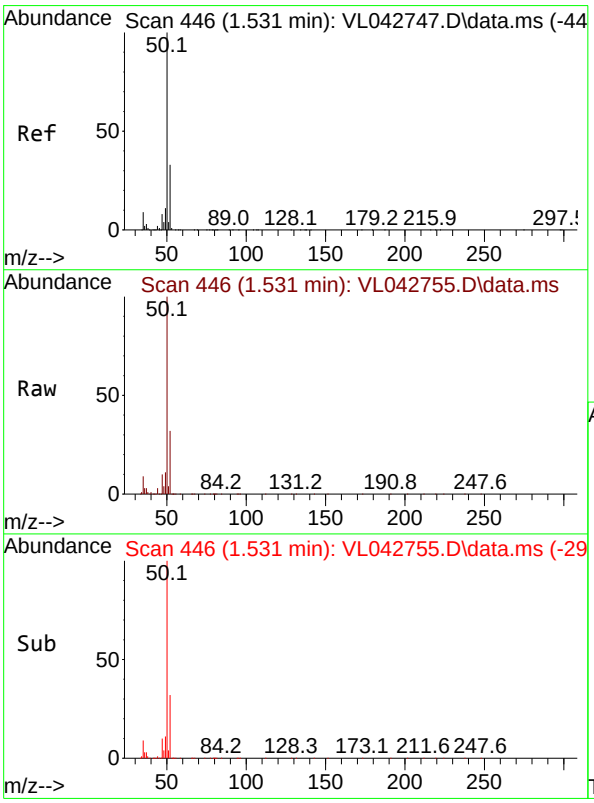
Ion	Ratio	Lower	Upper
51	100		
67	18.4	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

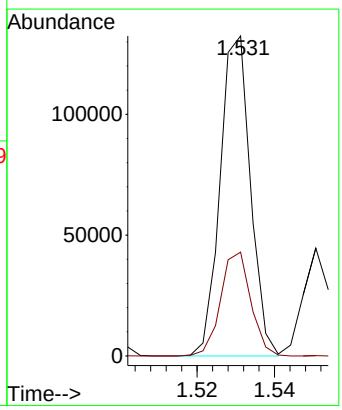
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

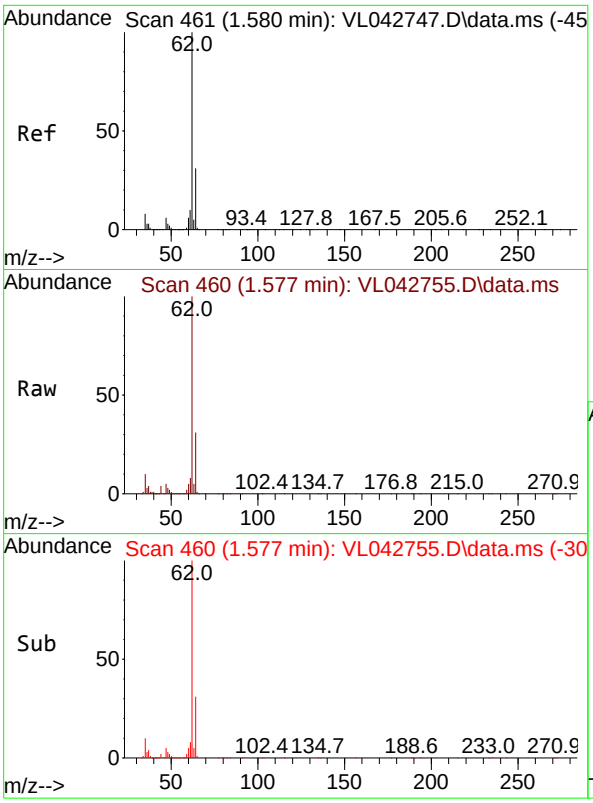


#4
Chloromethane
Concen: 9.119 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 50 Resp: 72221

Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.6	40.0

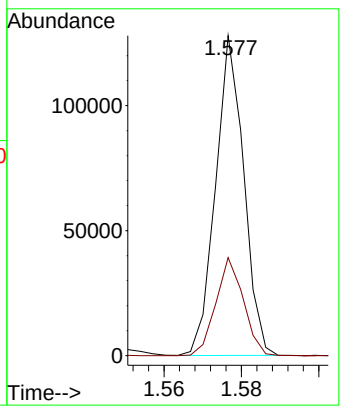




#5
Vinyl Chloride
Concen: 8.265 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 62 Resp: 6467

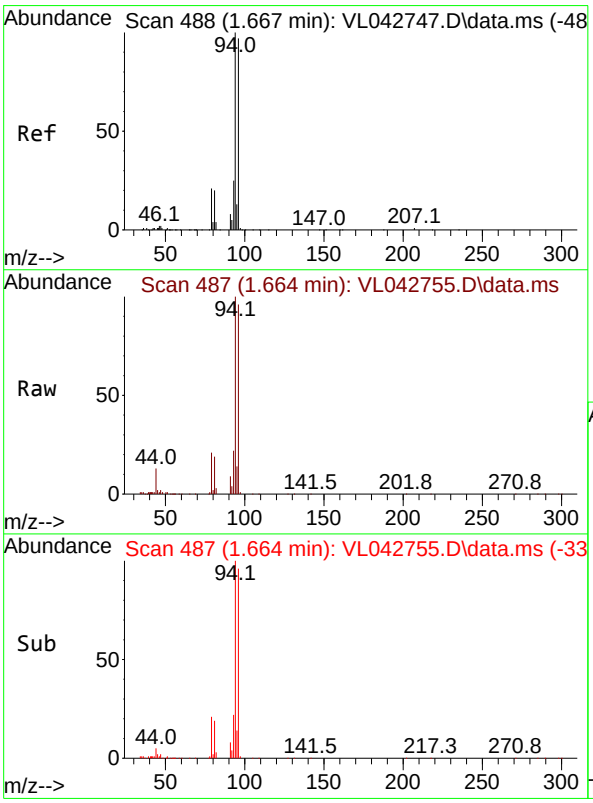
Ion	Ratio	Lower	Upper
62	100		
64	30.7	24.5	36.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

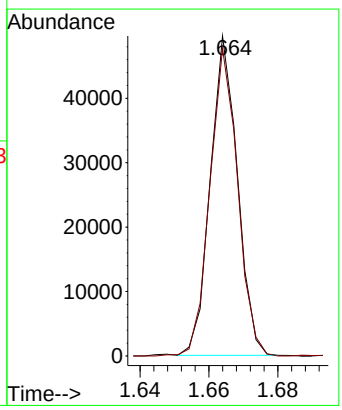
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

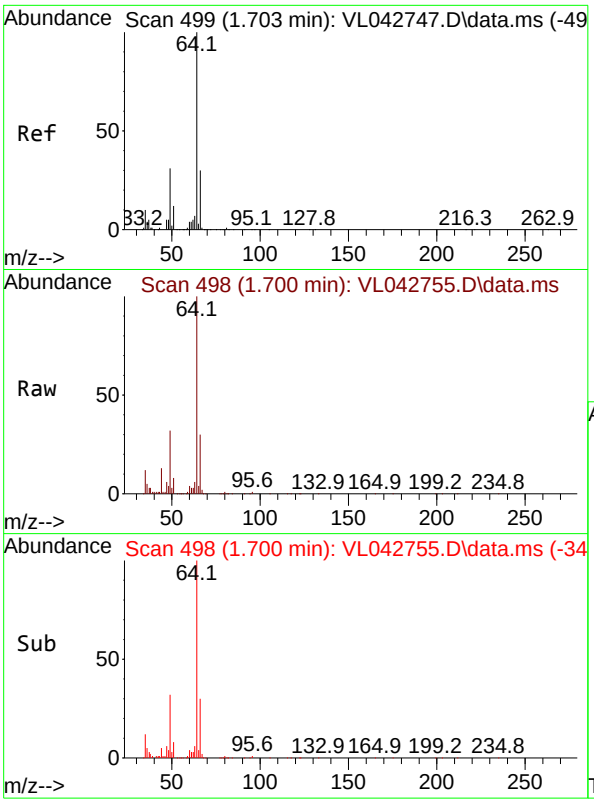


#6
Bromomethane
Concen: 8.957 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 94 Resp: 27096

Ion	Ratio	Lower	Upper
94	100		
96	96.3	77.6	116.4

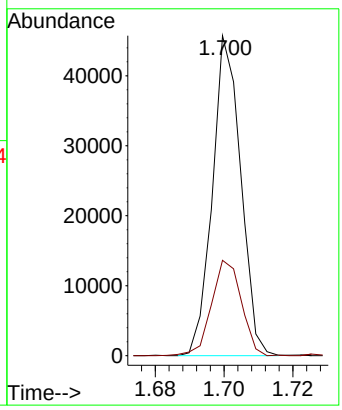




#7
Chloroethane
Concen: 8.641 ppbv
RT: 1.700 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 64 Resp: 2612

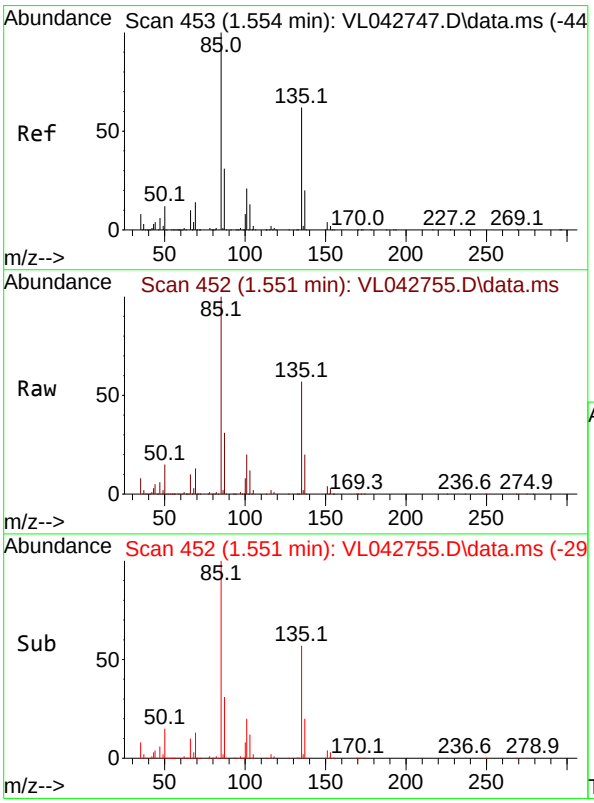
Ion	Ratio	Lower	Upper
64	100		
66	29.8	24.1	36.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

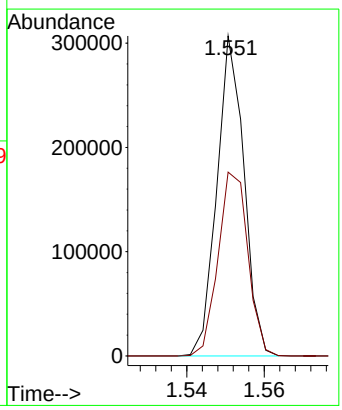
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

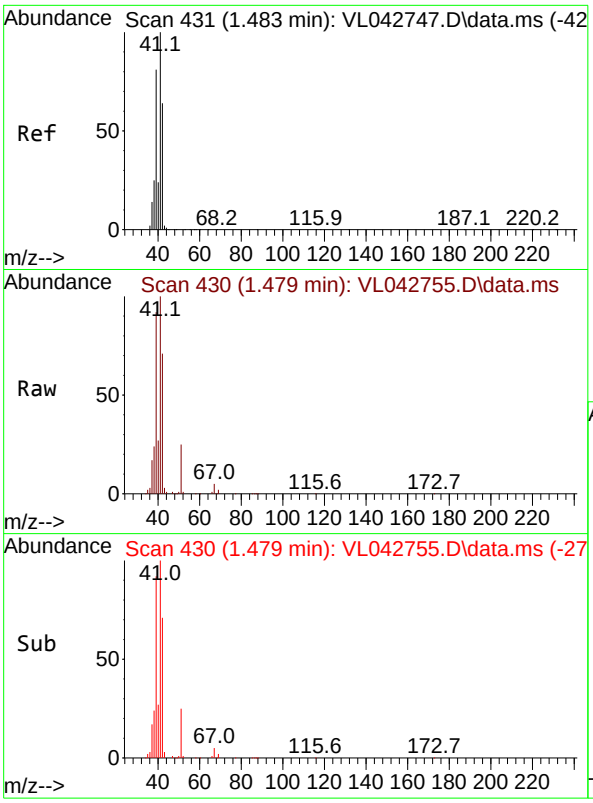


#8
Dichlorotetrafluoroethane
Concen: 9.244 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 85 Resp: 148833

Ion	Ratio	Lower	Upper
85	100		
135	63.6	50.6	76.0

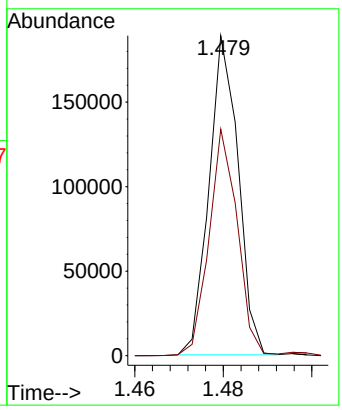




#9
Propene
Concen: 9.316 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 41 Resp: 8634

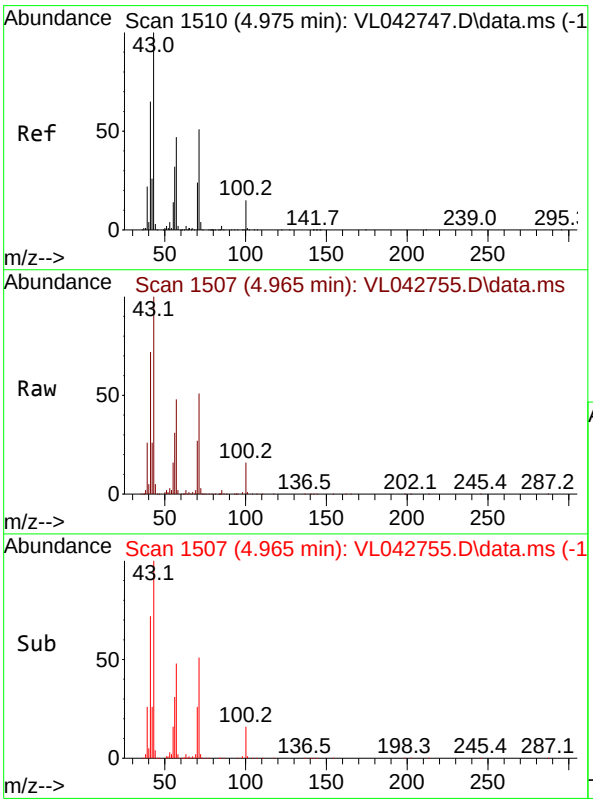
Ion	Ratio	Lower	Upper
41	100		
42	70.7	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

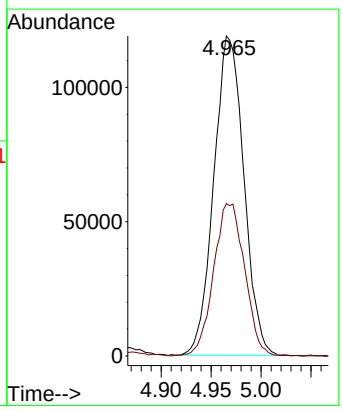
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

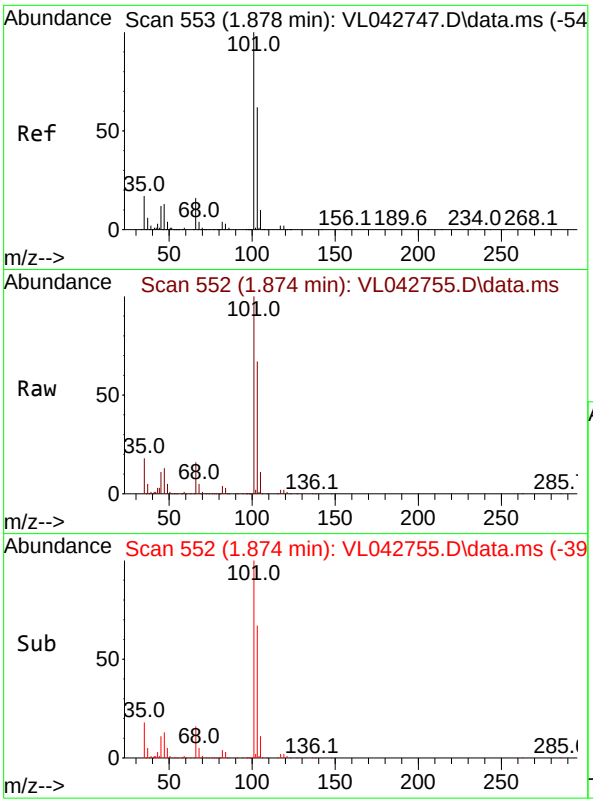


#10
Heptane
Concen: 9.921 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 43 Resp: 247934

Ion	Ratio	Lower	Upper
43	100		
57	49.5	39.9	59.9





#11
Trichlorofluoromethane
Concen: 8.902 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

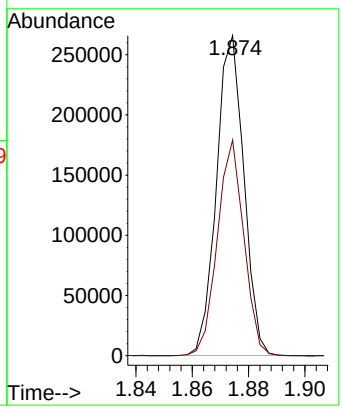
Tgt Ion:101 Resp: 17964

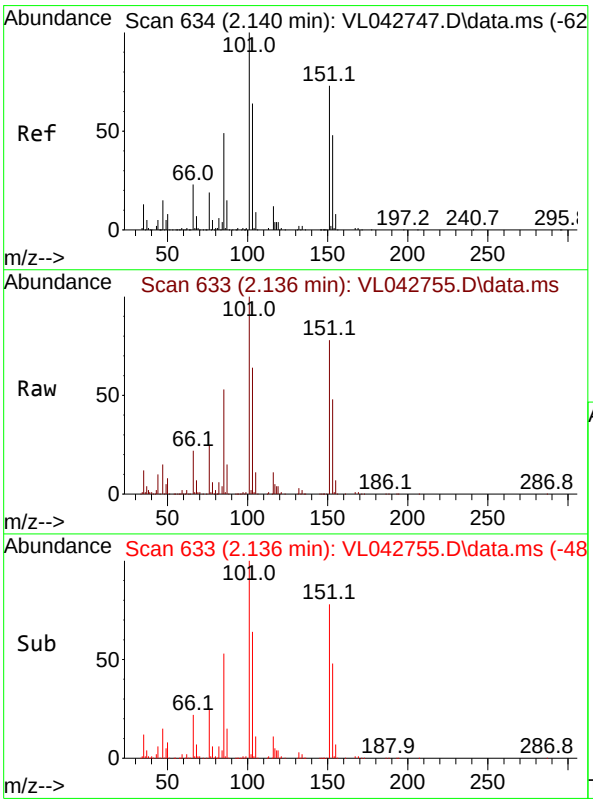
Ion	Ratio	Lower	Upper
101	100		
103	67.4	49.6	74.4

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

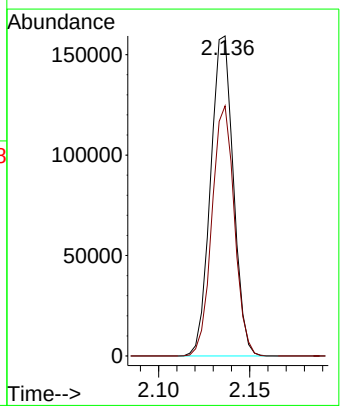


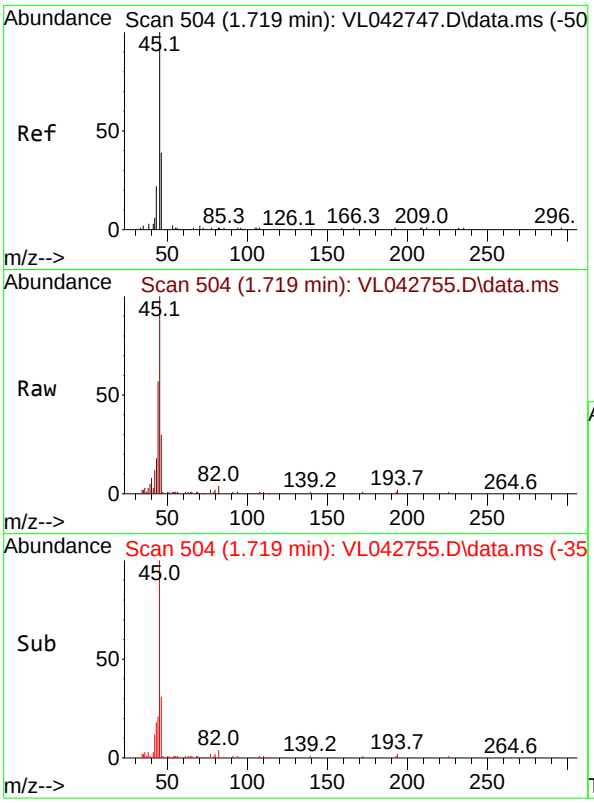


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.023 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:101 Resp: 138363

Ion	Ratio	Lower	Upper
101	100		
151	76.9	60.5	90.7

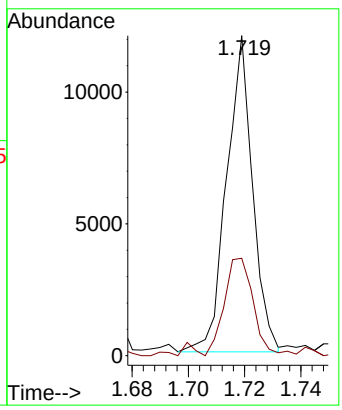




#13
Ethanol
Concen: 10.243 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. 0.000 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 45 Resp: 769(

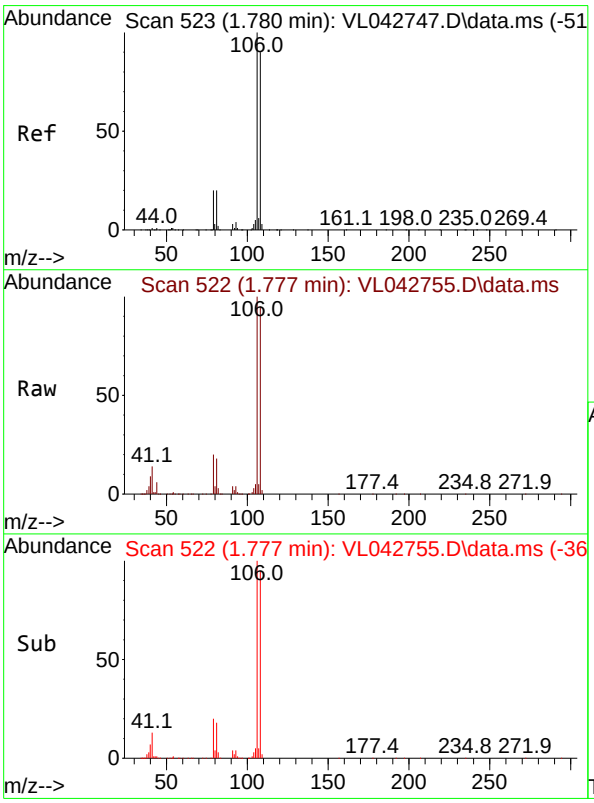
Ion	Ratio	Lower	Upper
45	100		
46	39.7	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

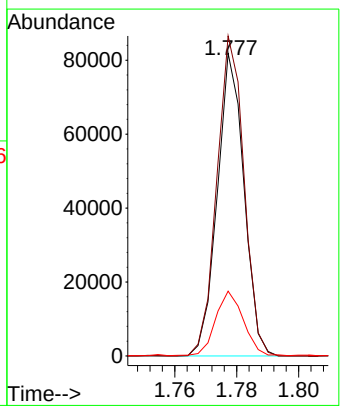
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

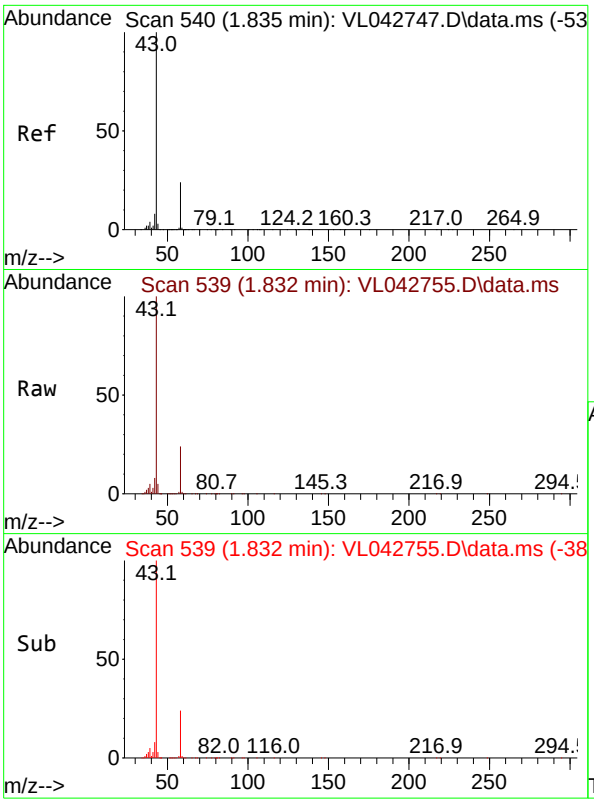


#14
Bromoethene
Concen: 9.020 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:108 Resp: 48972

Ion	Ratio	Lower	Upper
108	100		
106	107.5	84.7	127.1
79	23.5	17.4	26.2

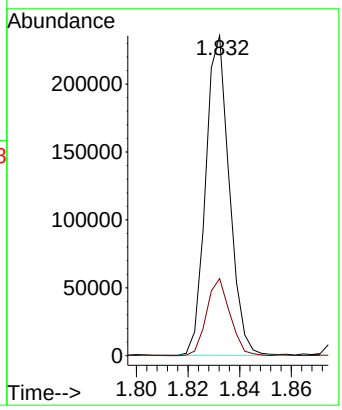




#15
Acetone
Concen: 7.324 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 43 Resp: 14974

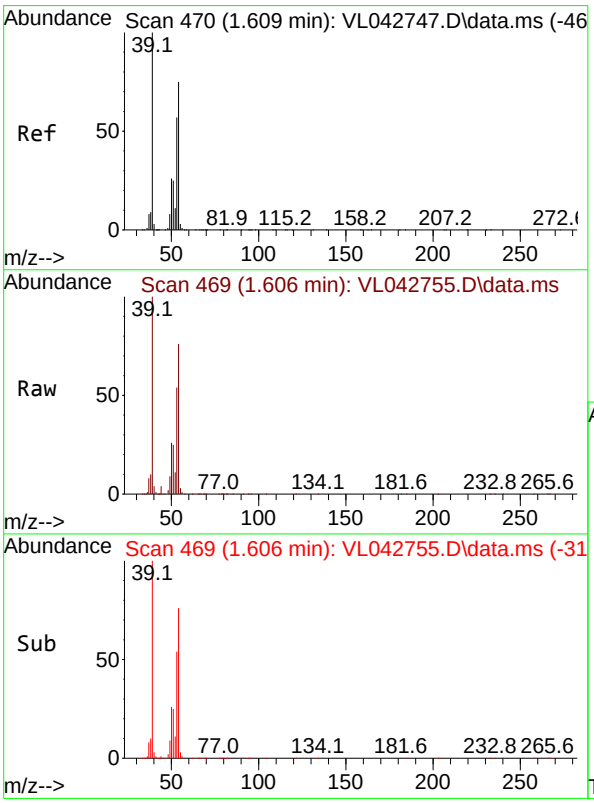
Ion	Ratio	Lower	Upper
43	100		
58	24.2	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

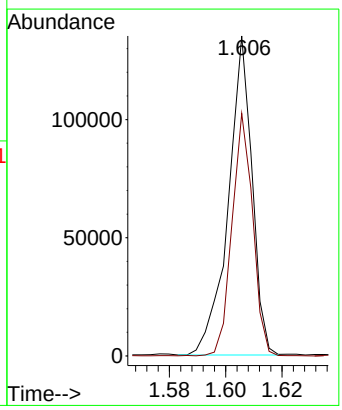
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

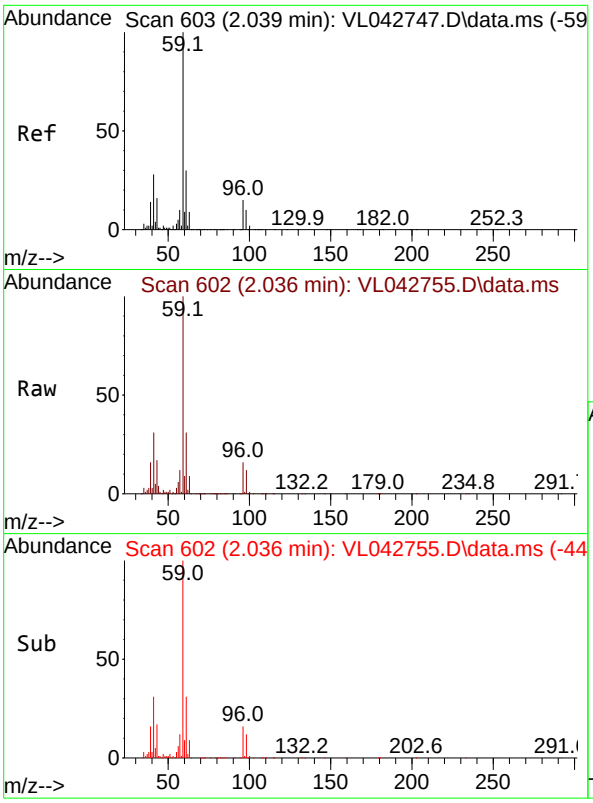


#16
1,3-Butadiene
Concen: 9.072 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 39 Resp: 79112

Ion	Ratio	Lower	Upper
39	100		
54	66.6	54.5	81.7

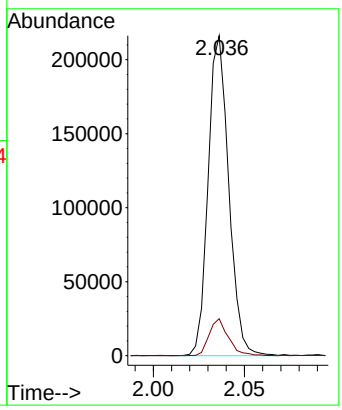




#17
tert-Butyl alcohol
Concen: 9.225 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 59 Resp: 17009

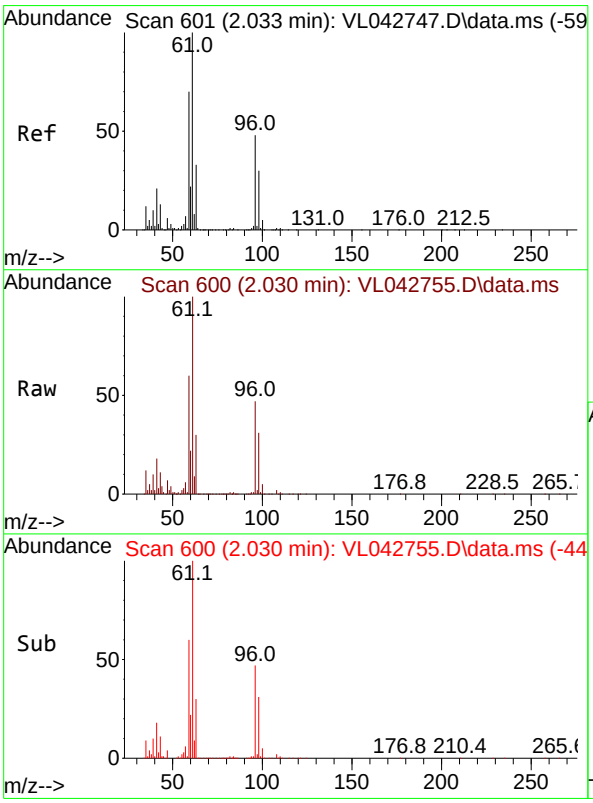
Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.3	12.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

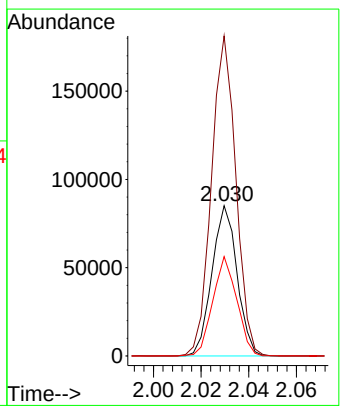
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

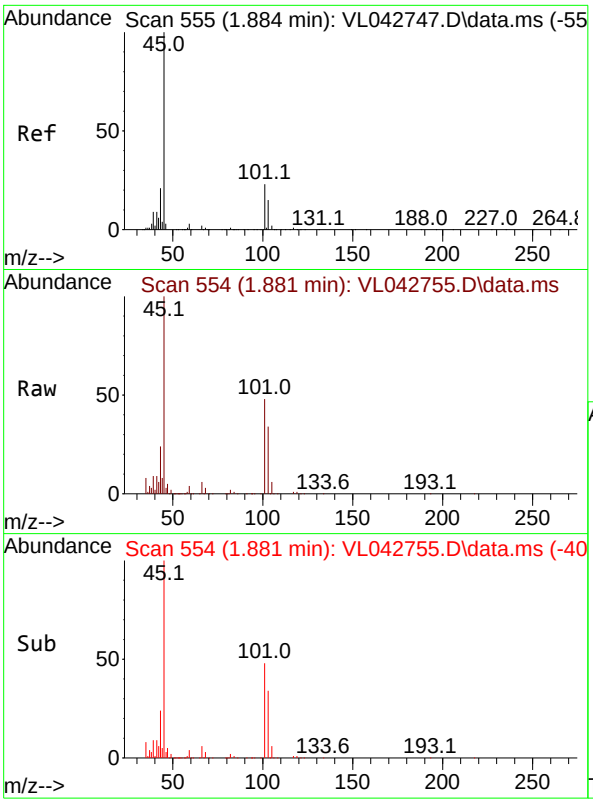


#18
1,1-Dichloroethene
Concen: 8.970 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 96 Resp: 62149

Ion	Ratio	Lower	Upper
96	100		
61	212.9	165.8	248.6
98	66.1	49.9	74.9

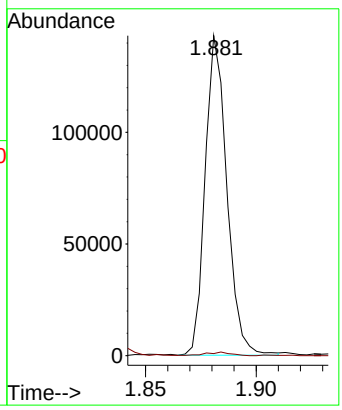




#19
Isopropyl Alcohol
Concen: 9.006 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 45 Resp: 9784

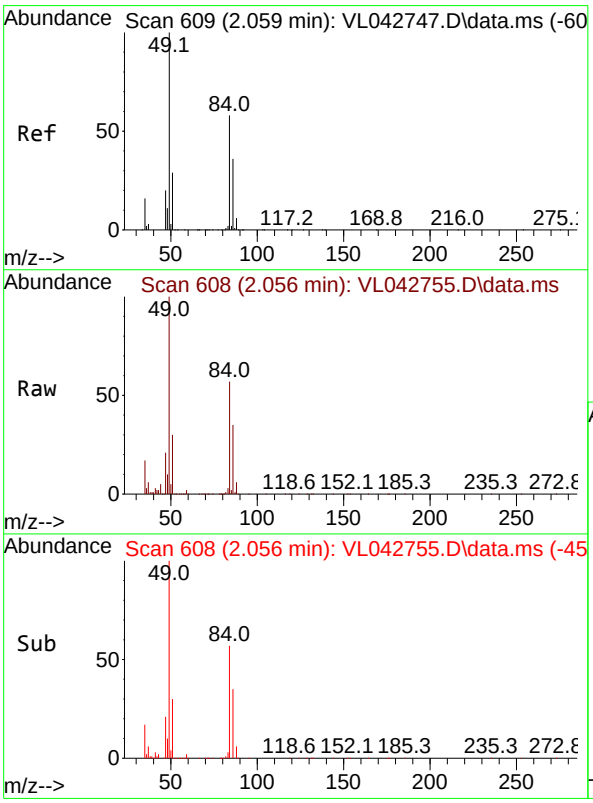
Ion	Ratio	Lower	Upper
45	100		
58	37.1	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

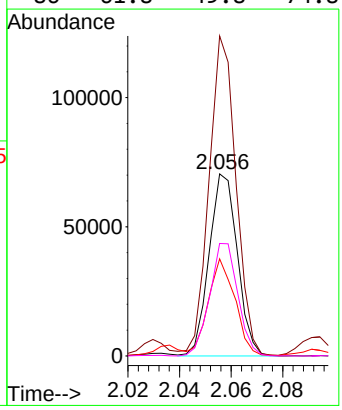
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

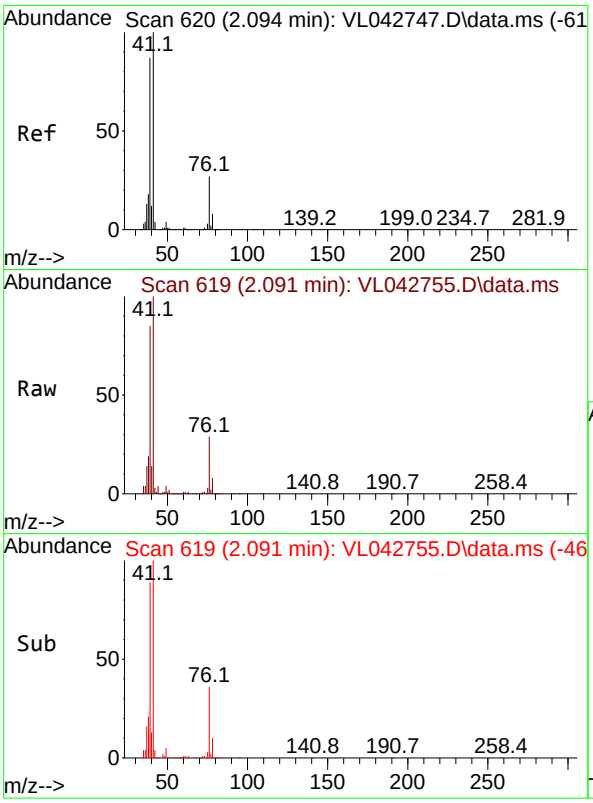


#20
Methylene Chloride
Concen: 8.320 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 84 Resp: 53608

Ion	Ratio	Lower	Upper
84	100		
49	175.3	138.6	208.0
51	53.0	40.6	61.0
86	61.8	49.8	74.8

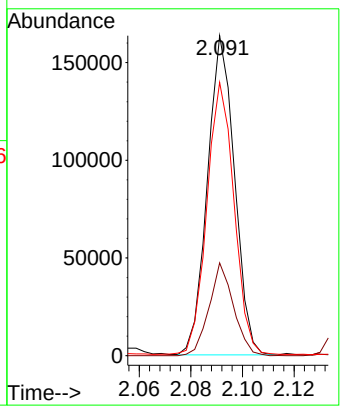




#21
Allyl Chloride
Concen: 9.441 ppbv
RT: 2.091 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 41 Resp: 11895

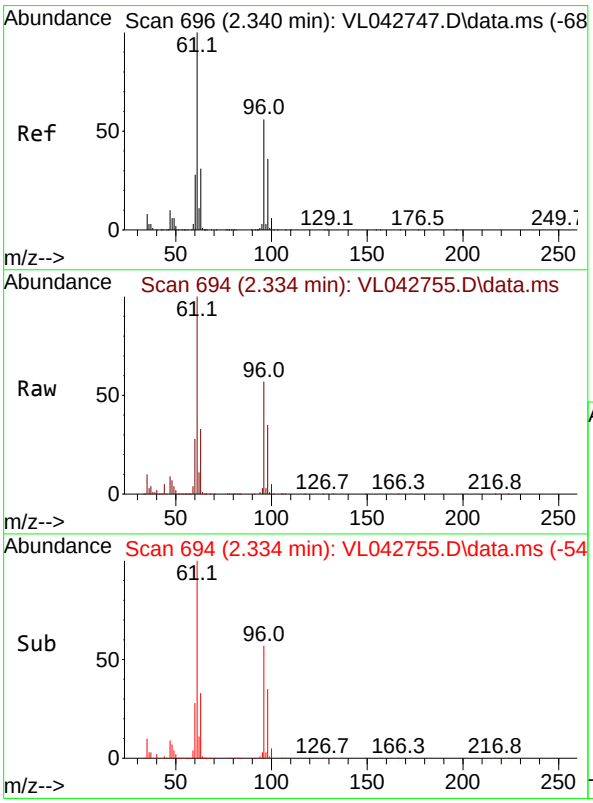
Ion	Ratio	Lower	Upper
41	100		
76	26.3	21.1	31.7
39	85.9	68.3	102.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

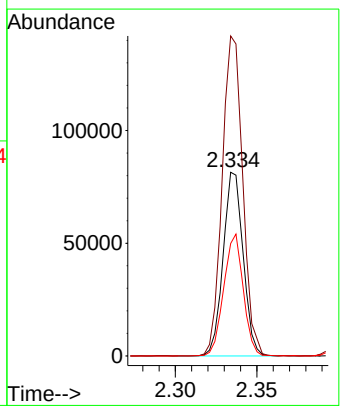
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

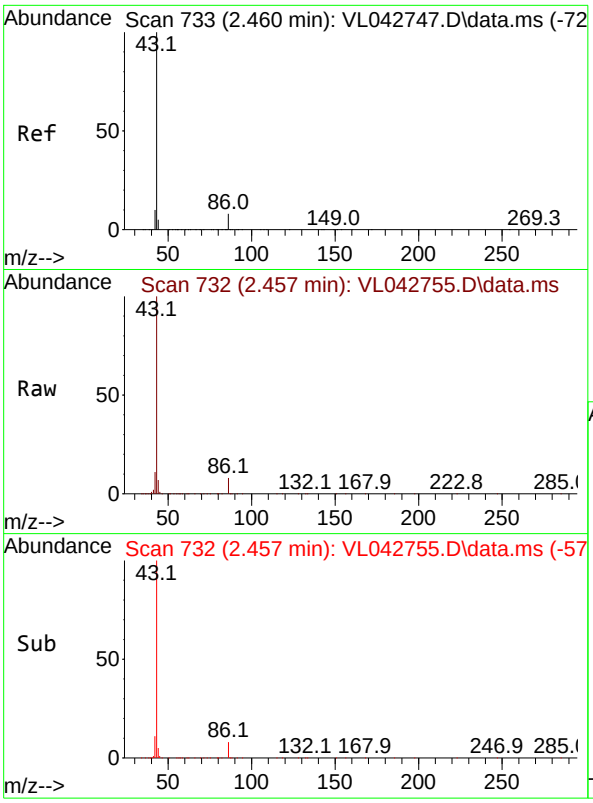


#22
trans-1,2-Dichloroethene
Concen: 9.322 ppbv
RT: 2.334 min Scan# 694
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 96 Resp: 69482

Ion	Ratio	Lower	Upper
96	100		
61	174.3	142.3	213.5
98	61.3	50.6	76.0

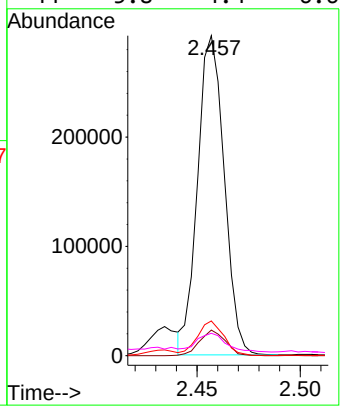




#23
Vinyl Acetate
Concen: 10.568 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 43 Resp: 26193

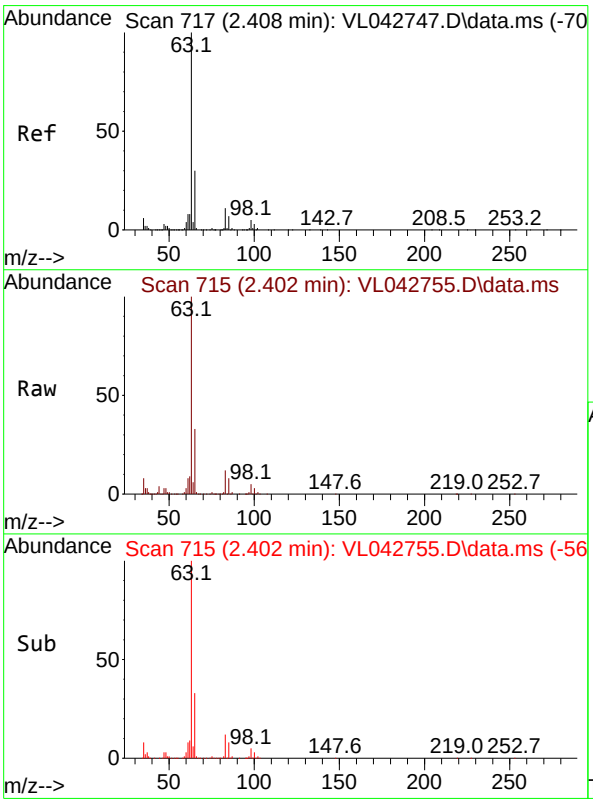
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.1	9.1
42	10.7	7.8	11.8
44	5.8	4.4	6.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

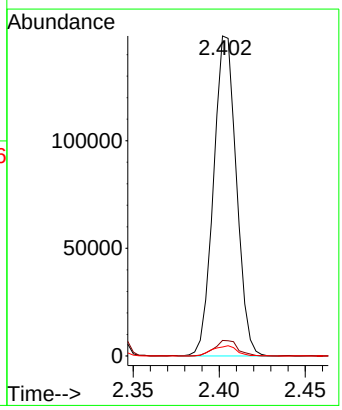
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

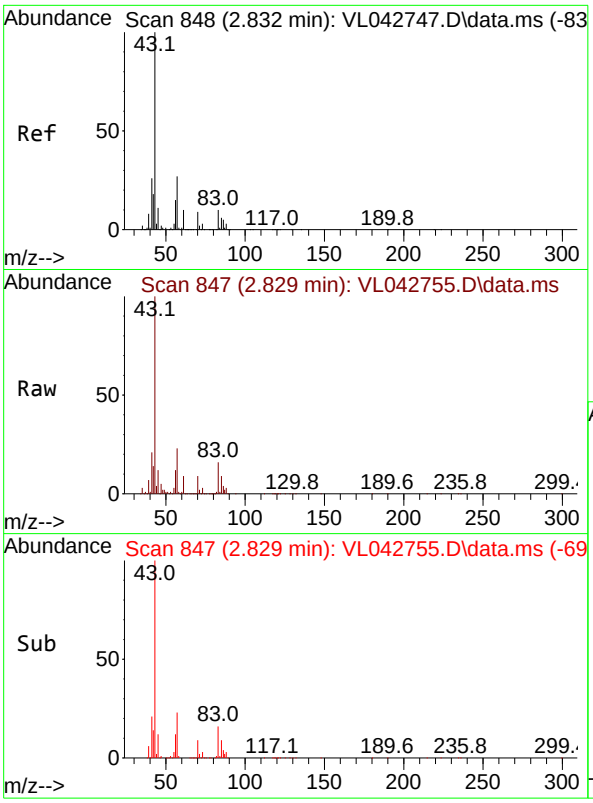


#24
1,1-Dichloroethane
Concen: 8.993 ppbv
RT: 2.402 min Scan# 715
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 63 Resp: 137586

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.5	7.4
100	2.8	1.6	4.8

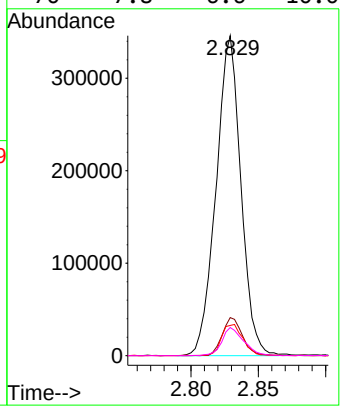




#25
Ethyl Acetate
Concen: 9.816 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 43 Resp: 44420

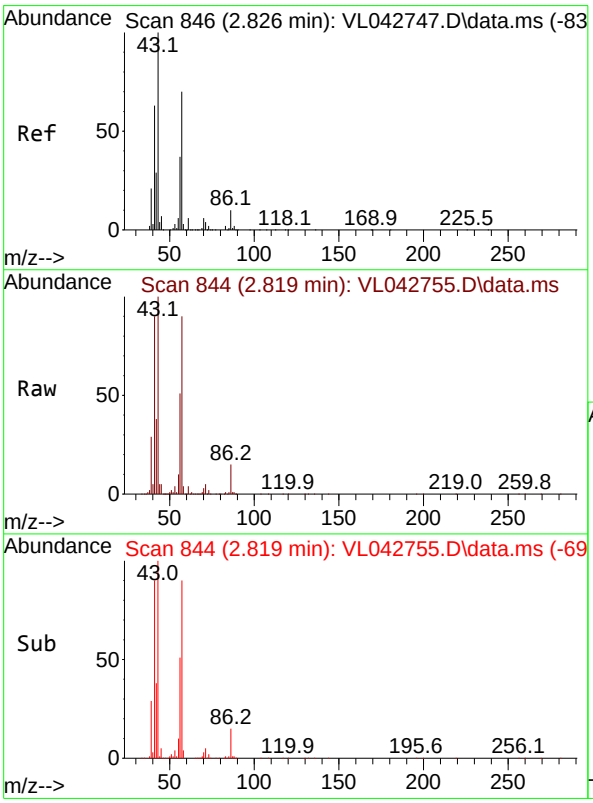
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	8.7	6.7	10.1
70	7.8	6.6	10.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

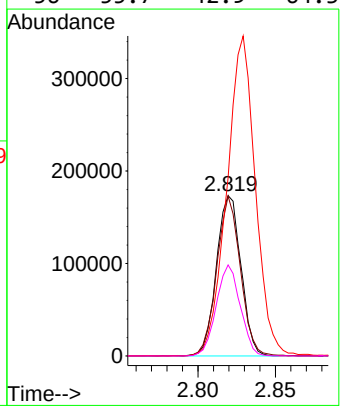
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

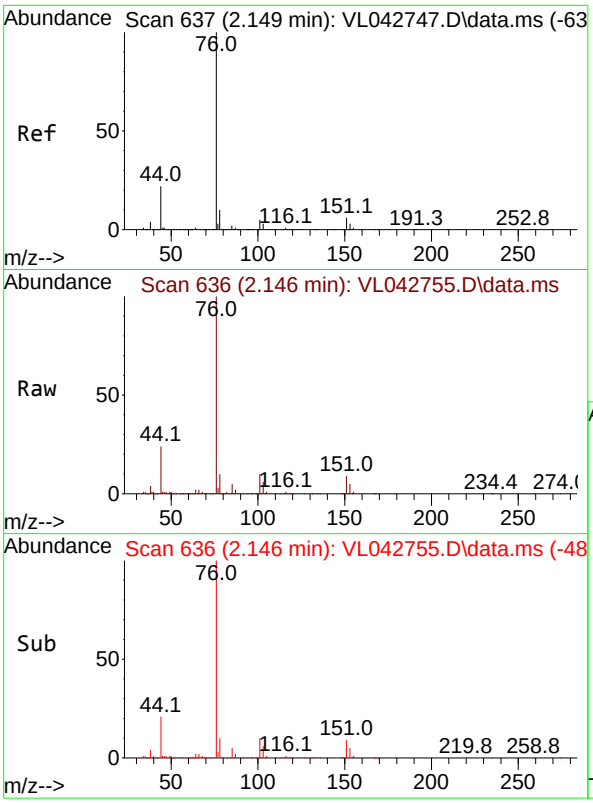


#26
Hexane
Concen: 9.597 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 57 Resp: 190523

Ion	Ratio	Lower	Upper
57	100		
41	96.3	75.4	113.2
43	234.2	185.0	277.6
56	55.7	42.9	64.3

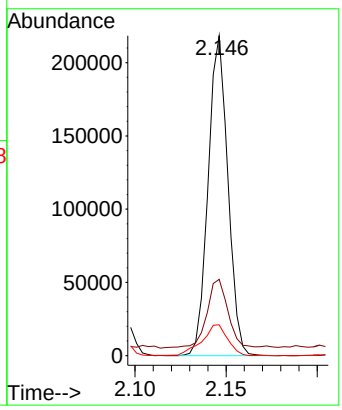




#27
Carbon Disulfide
Concen: 9.652 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 76 Resp: 16404

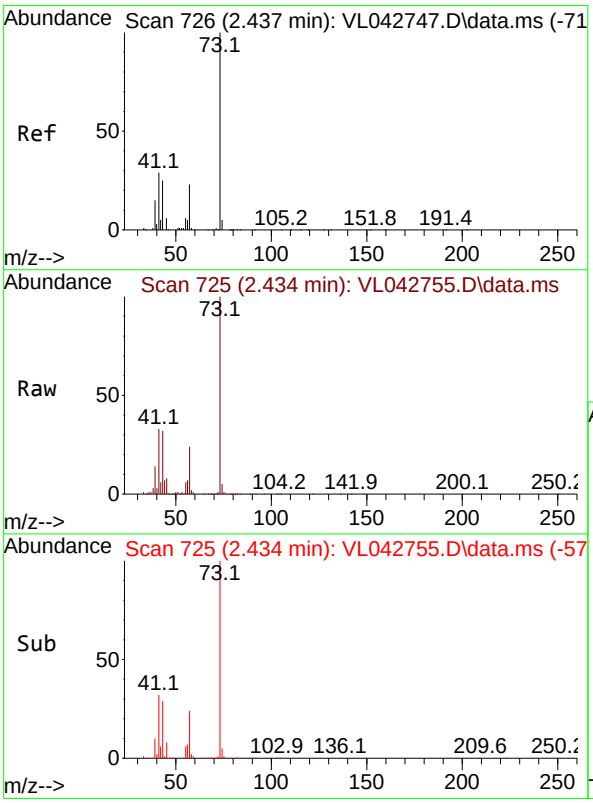
Ion	Ratio	Lower	Upper
76	100		
44	23.7	19.3	28.9
78	12.7	9.9	14.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

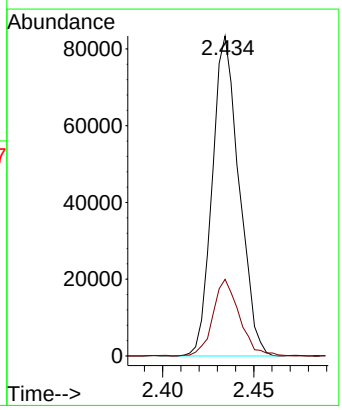
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

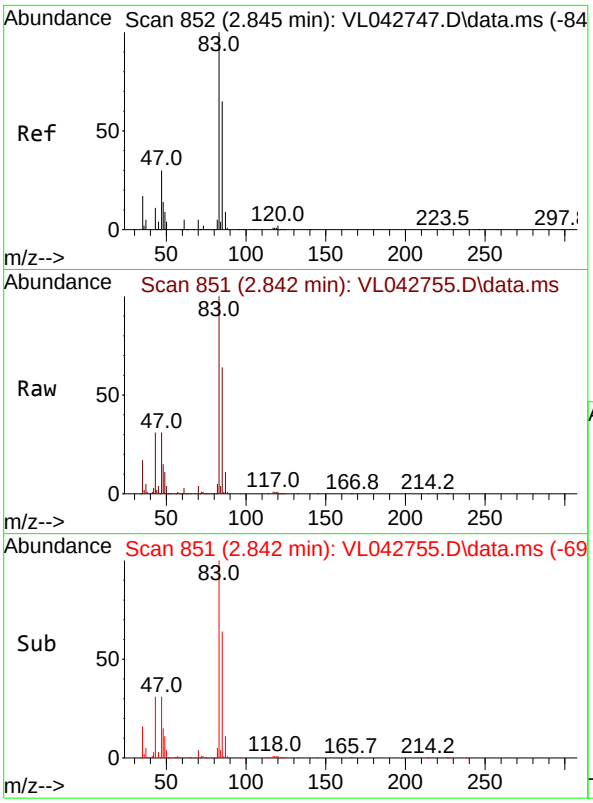


#28
Methyl tert-Butyl Ether
Concen: 9.114 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 73 Resp: 85480

Ion	Ratio	Lower	Upper
73	100		
57	23.8	19.8	29.8

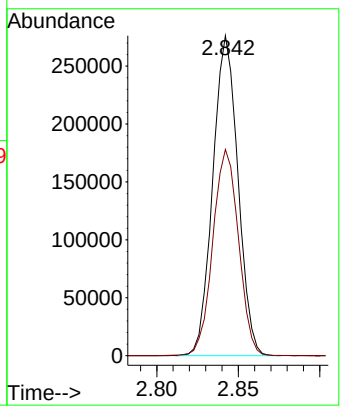




#29
Chloroform
Concen: 9.643 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 83 Resp: 29580

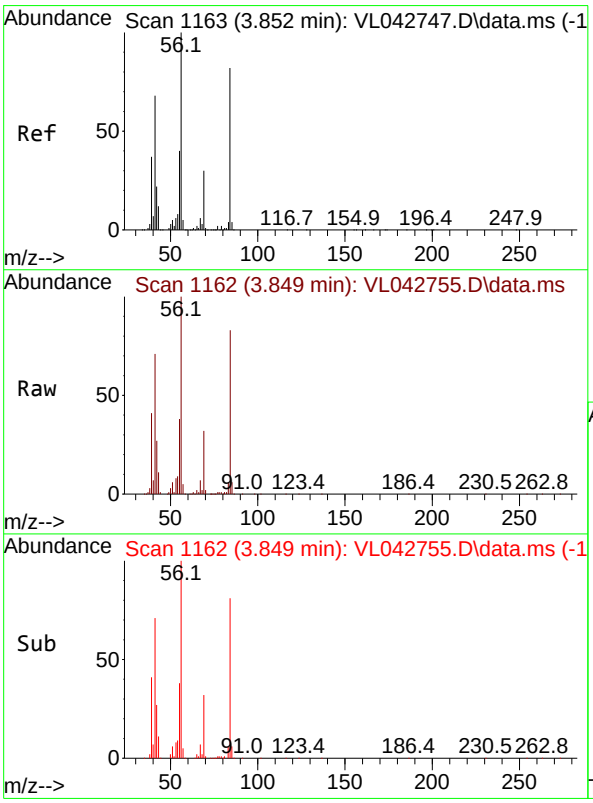
Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.2	78.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

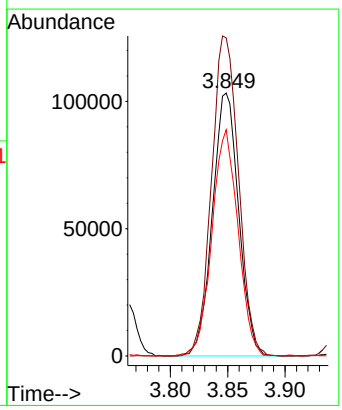
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

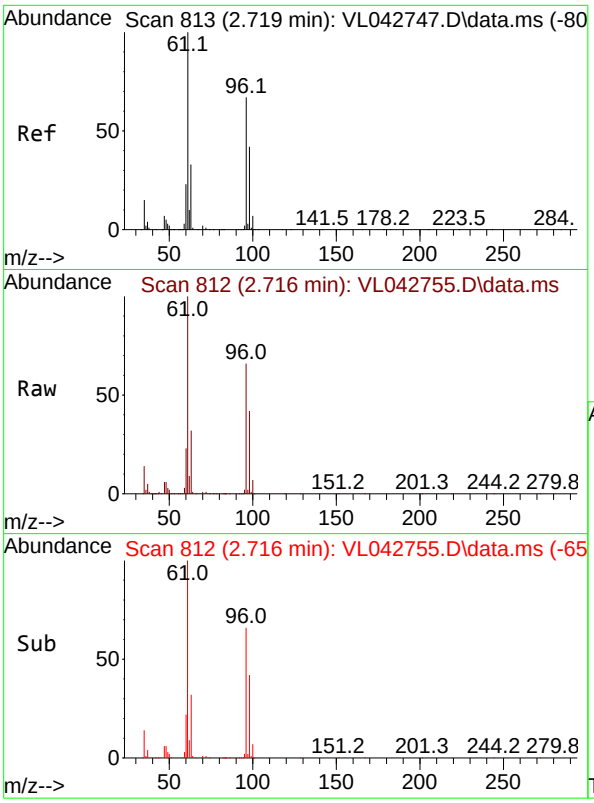


#30
Cyclohexane
Concen: 9.773 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 84 Resp: 164554

Ion	Ratio	Lower	Upper
84	100		
56	124.9	97.5	146.3
41	85.5	67.2	100.8

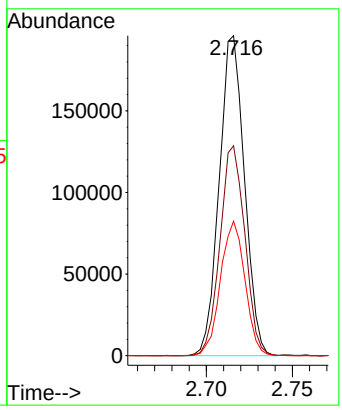




#31
cis-1,2-Dichloroethene
Concen: 9.802 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 61 Resp: 19997

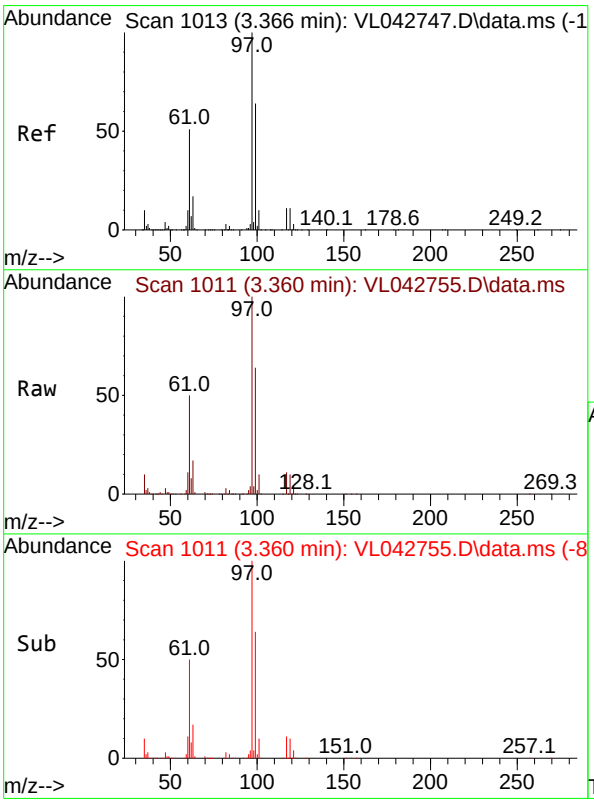
Ion	Ratio	Lower	Upper
61	100		
96	65.6	53.5	80.3
98	42.1	33.6	50.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

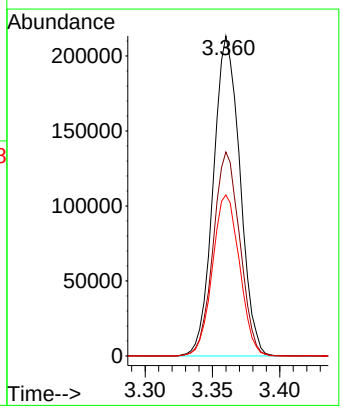
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

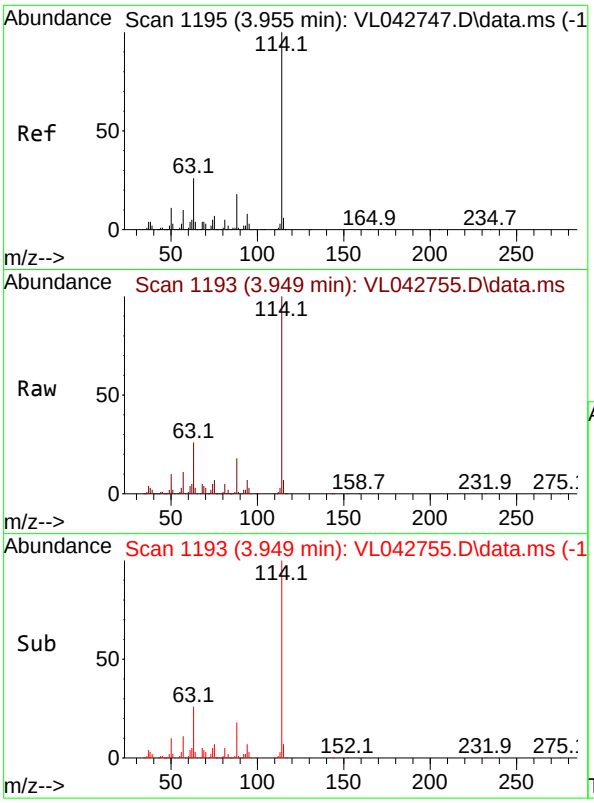


#32
1,1,1-Trichloroethane
Concen: 9.172 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 97 Resp: 293074

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.0	76.6
61	51.4	40.9	61.3

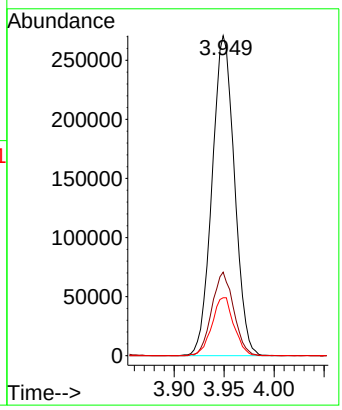




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:114 Resp: 42174

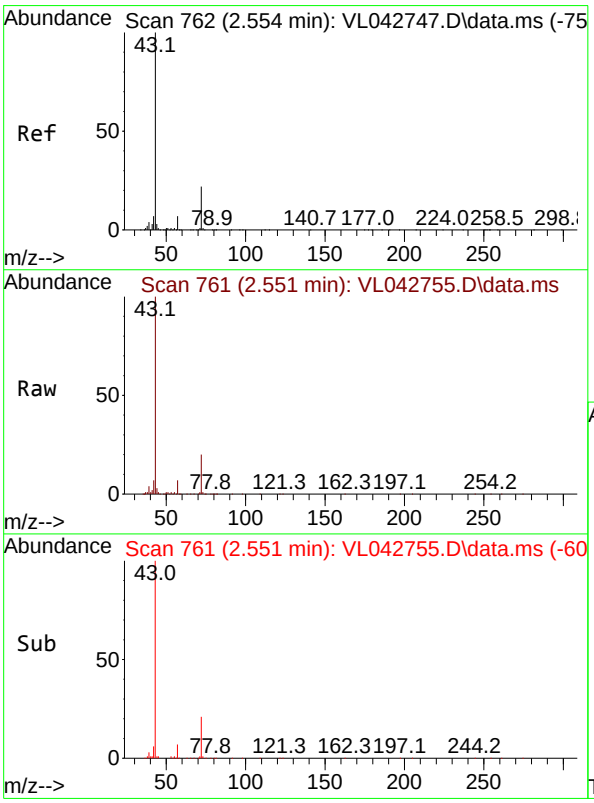
Ion	Ratio	Lower	Upper
114	100		
63	25.6	20.5	30.7
88	17.8	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

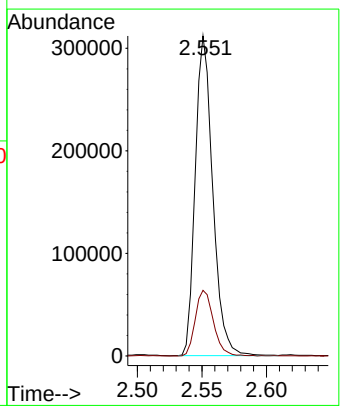
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

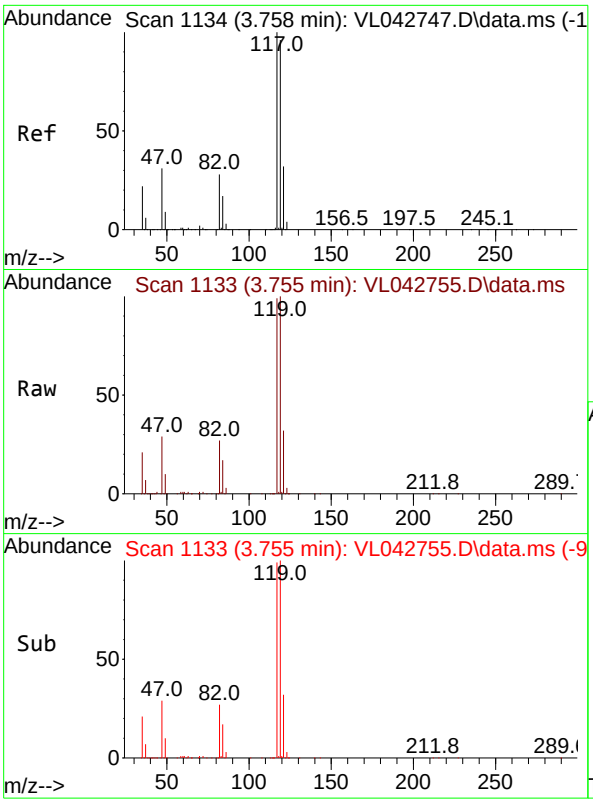


#34
2-Butanone
Concen: 9.869 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 43 Resp: 294837

Ion	Ratio	Lower	Upper
43	100		
72	21.4	17.4	26.0

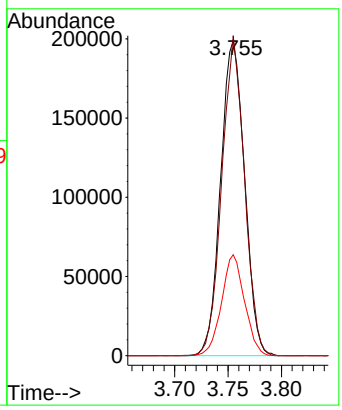




#35
Carbon Tetrachloride
Concen: 9.900 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:117 Resp: 31012

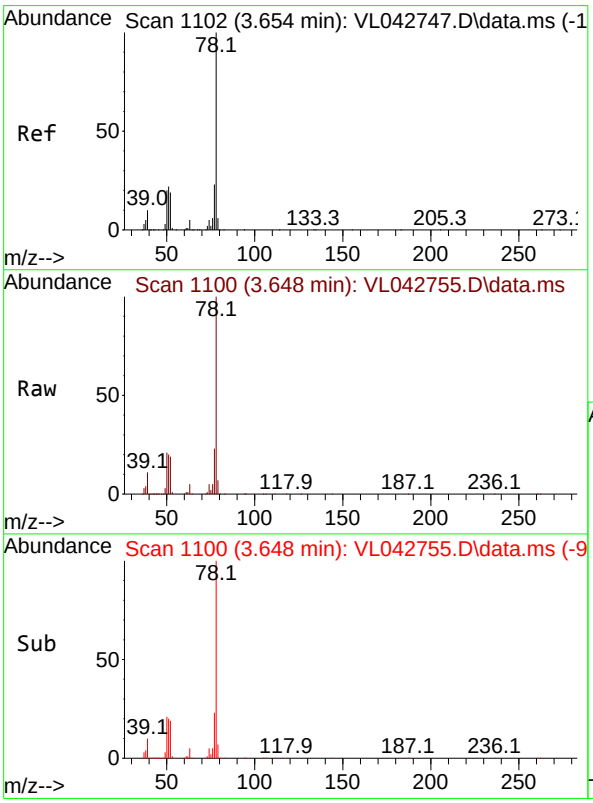
Ion	Ratio	Lower	Upper
117	100		
119	101.4	77.1	115.7
121	32.0	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

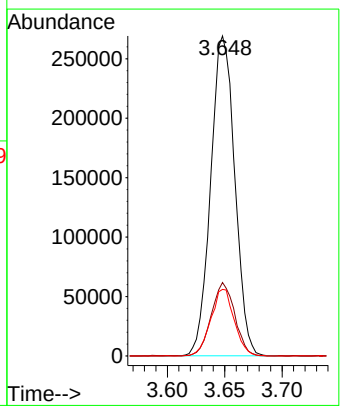
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

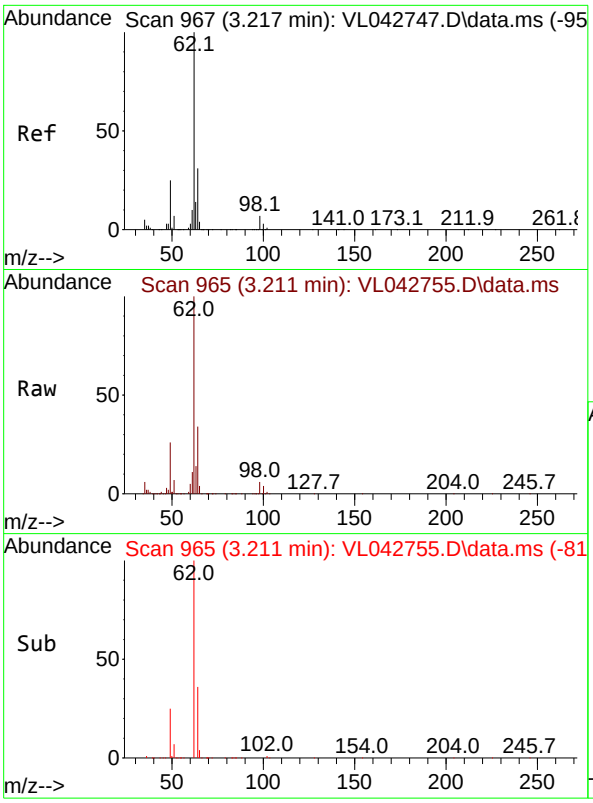


#36
Benzene
Concen: 9.834 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 78 Resp: 393085

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.5	27.7
50	20.8	16.2	24.2

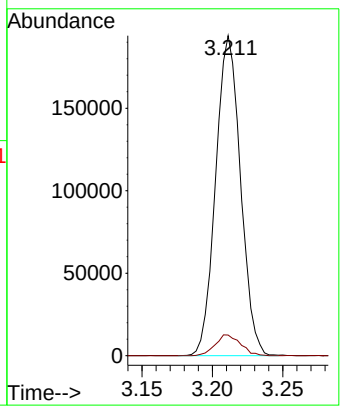




#37
1,2-Dichloroethane
Concen: 9.895 ppbv
RT: 3.211 min Scan# 9
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 62 Resp: 23824

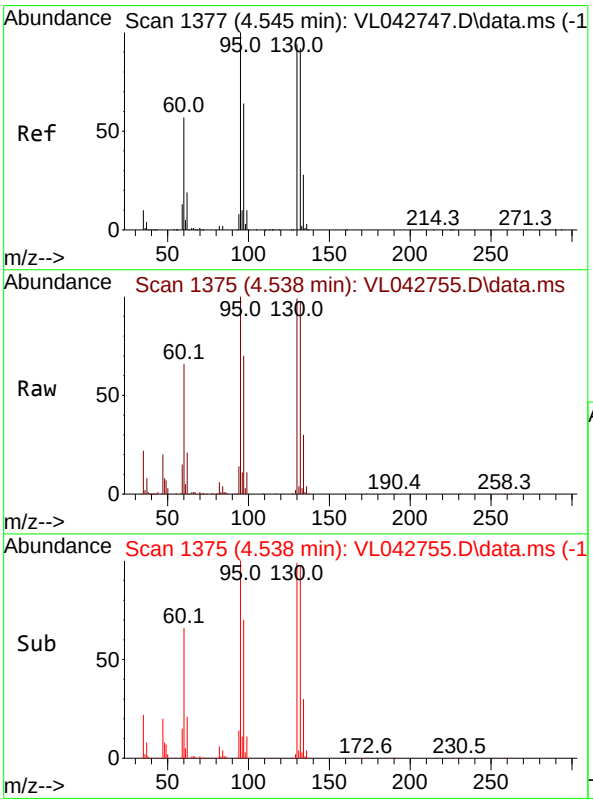
Ion	Ratio	Lower	Upper
62	100		
98	6.6	5.2	7.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

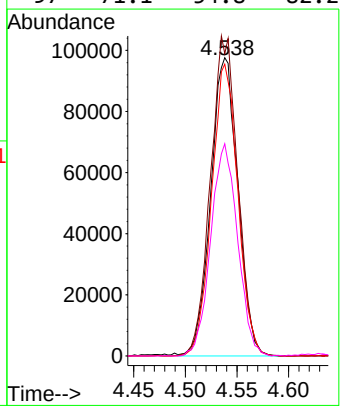
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

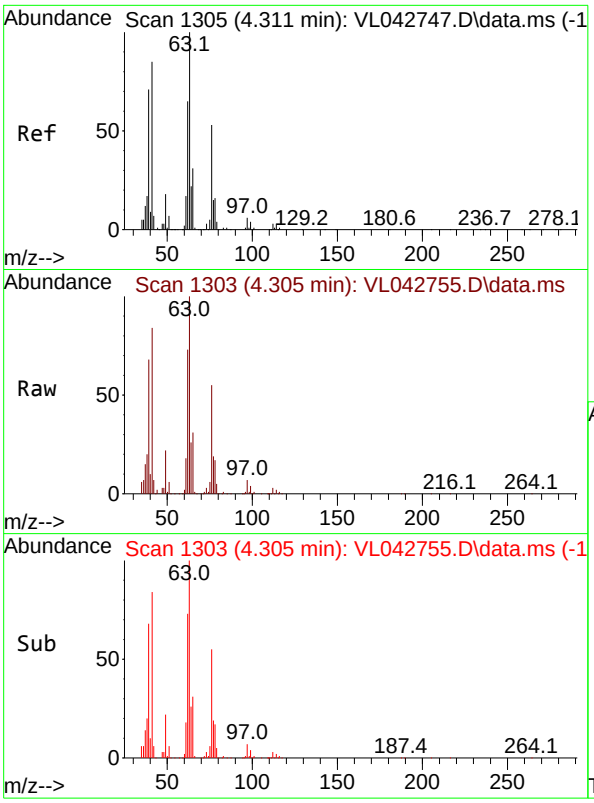


#38
Trichloroethene
Concen: 9.301 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:130 Resp: 178600

Ion	Ratio	Lower	Upper
130	100		
95	101.3	85.4	128.2
132	97.7	78.2	117.2
97	71.1	54.8	82.2

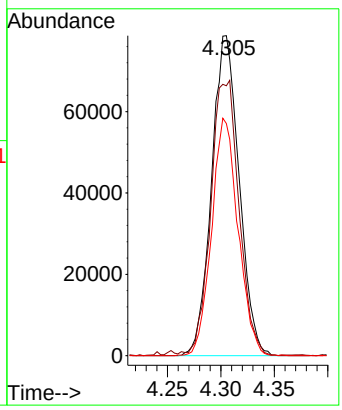




#39
1,2-Dichloropropane
Concen: 9.578 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 63 Resp: 14131

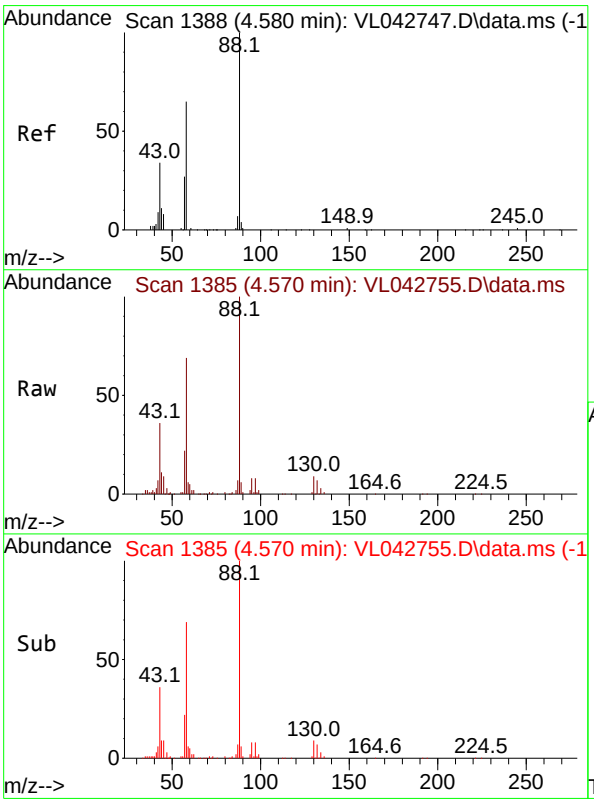
Ion	Ratio	Lower	Upper
63	100		
41	84.3	68.2	102.4
62	72.5	52.0	78.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

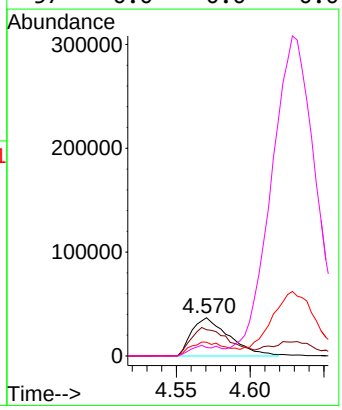
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

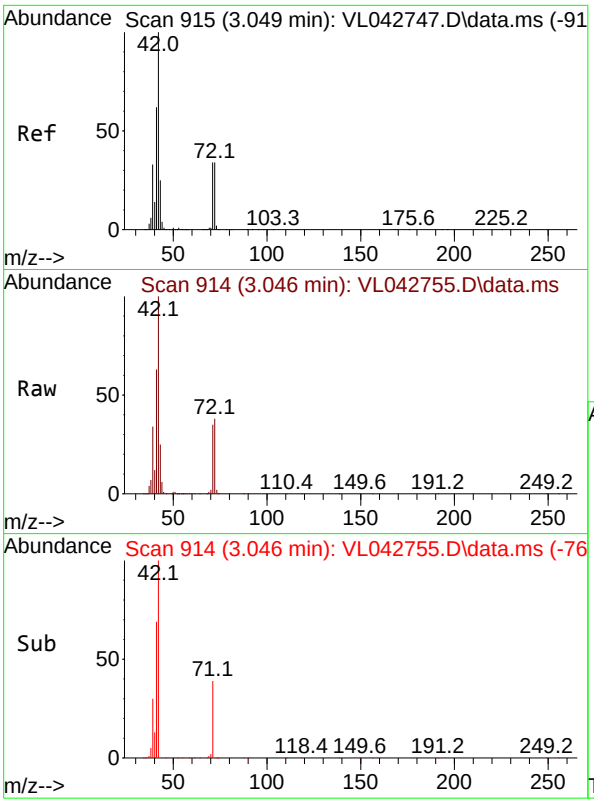


#40
1,4-Dioxane
Concen: 9.481 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 88 Resp: 65204

Ion	Ratio	Lower	Upper
88	100		
58	78.4	58.8	88.2
43	32.6	28.9	43.3
57	0.0	0.0	0.0

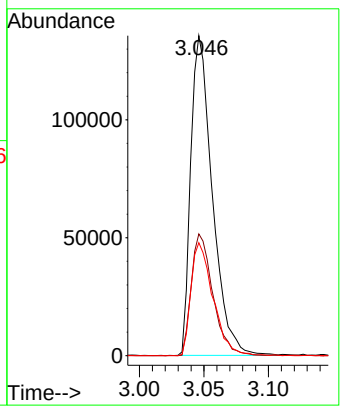




#41
Tetrahydrofuran
Concen: 10.404 ppbv
RT: 3.046 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 42 Resp: 15815

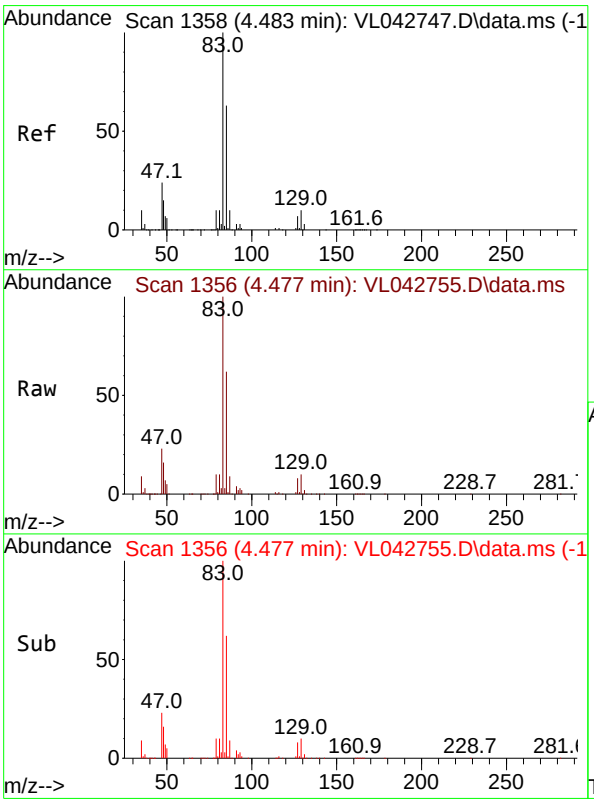
Ion	Ratio	Lower	Upper
42	100		
72	38.2	30.9	46.3
71	36.2	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

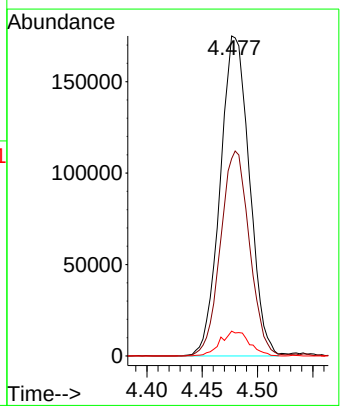
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

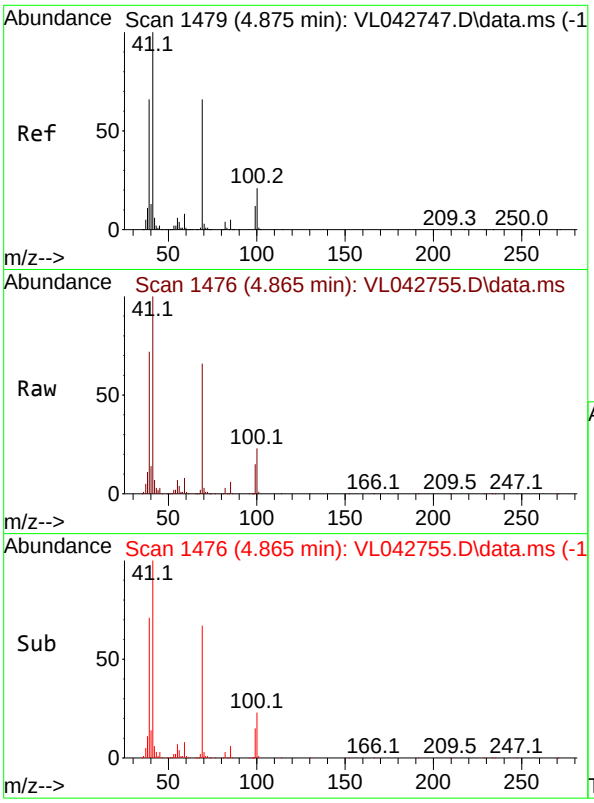


#42
Bromodichloromethane
Concen: 10.254 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 83 Resp: 321549

Ion	Ratio	Lower	Upper
83	100		
85	61.6	50.2	75.4
127	7.7	5.4	8.2

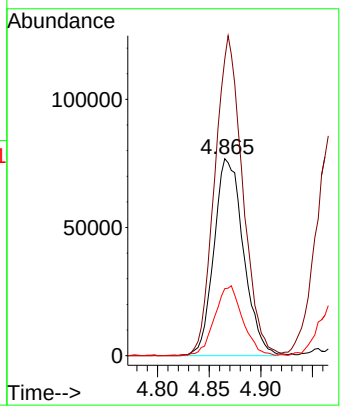




#43
Methyl Methacrylate
Concen: 10.738 ppbv
RT: 4.865 min Scan# 14
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 69 Resp: 15255

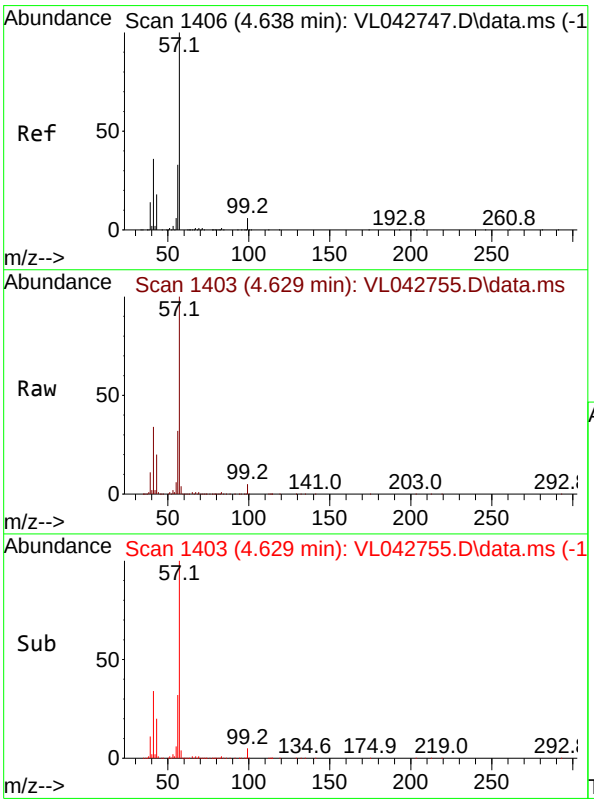
Ion	Ratio	Lower	Upper
69	100		
41	153.9	125.7	188.5
100	33.9	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

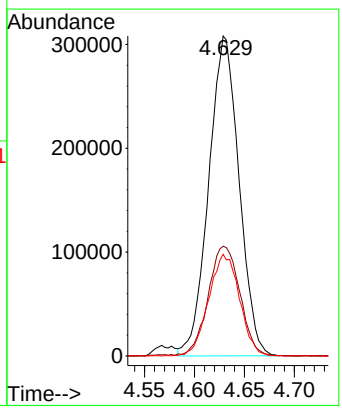
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

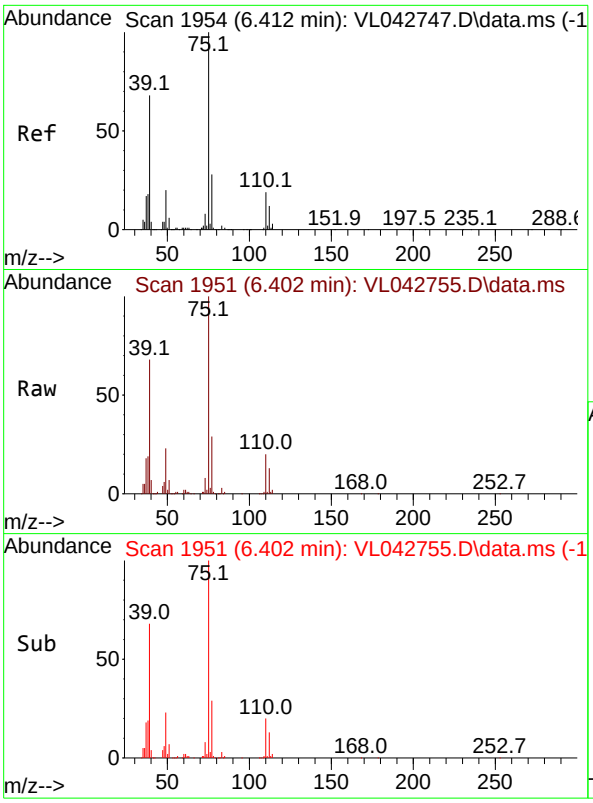


#44
2,2,4-Trimethylpentane
Concen: 9.973 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 57 Resp: 649720

Ion	Ratio	Lower	Upper
57	100		
41	36.3	28.3	42.5
56	32.4	25.8	38.6

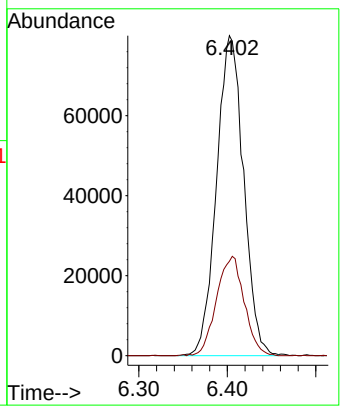




#45
t-1,3-Dichloropropene
Concen: 10.643 ppbv
RT: 6.402 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 75 Resp: 16956

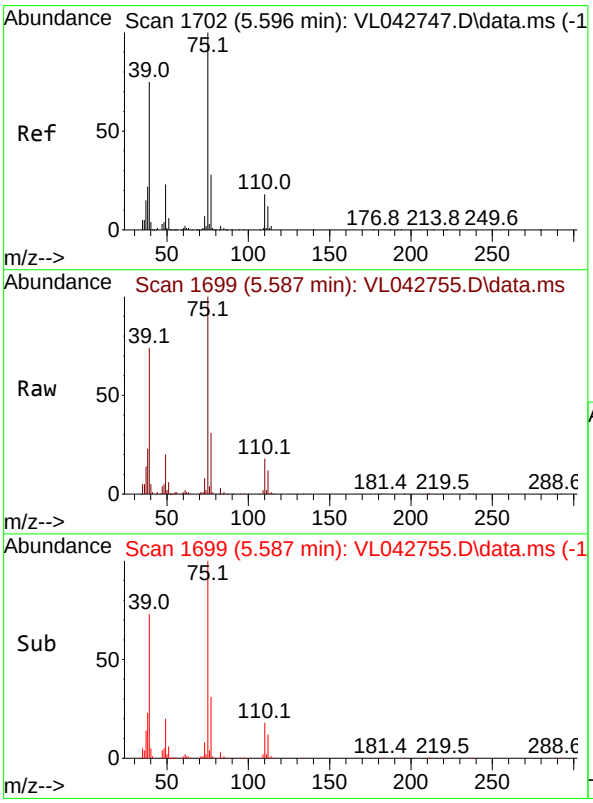
Ion	Ratio	Lower	Upper
75	100		
77	29.5	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

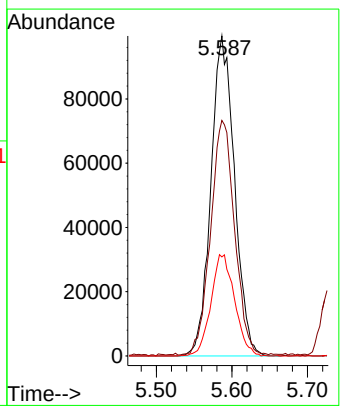
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

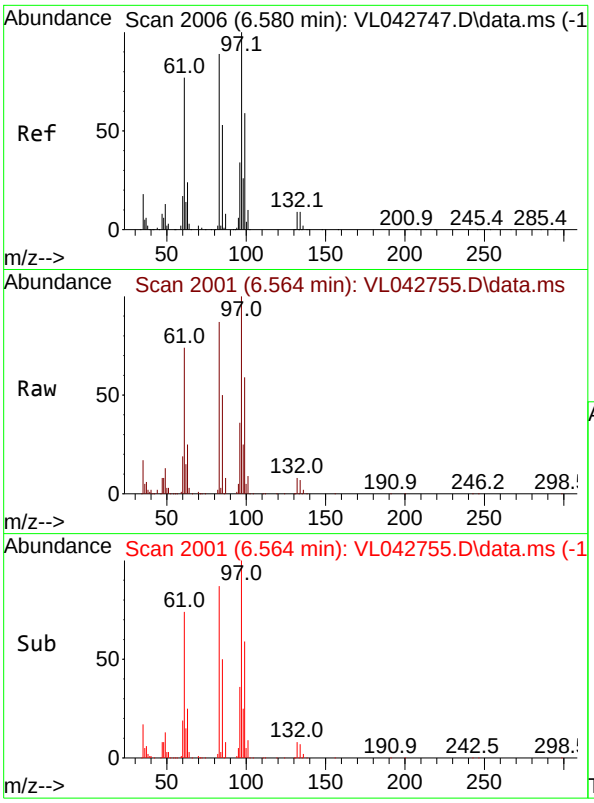


#46
cis-1,3-Dichloropropene
Concen: 10.679 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 75 Resp: 215596

Ion	Ratio	Lower	Upper
75	100		
39	73.3	60.2	90.2
77	30.9	22.6	34.0

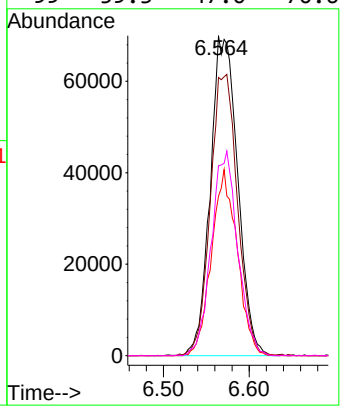




#47
1,1,2-Trichloroethane
Concen: 9.848 ppbv m
RT: 6.564 min Scan# 2
Delta R.T. -0.016 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 97 Resp: 15488

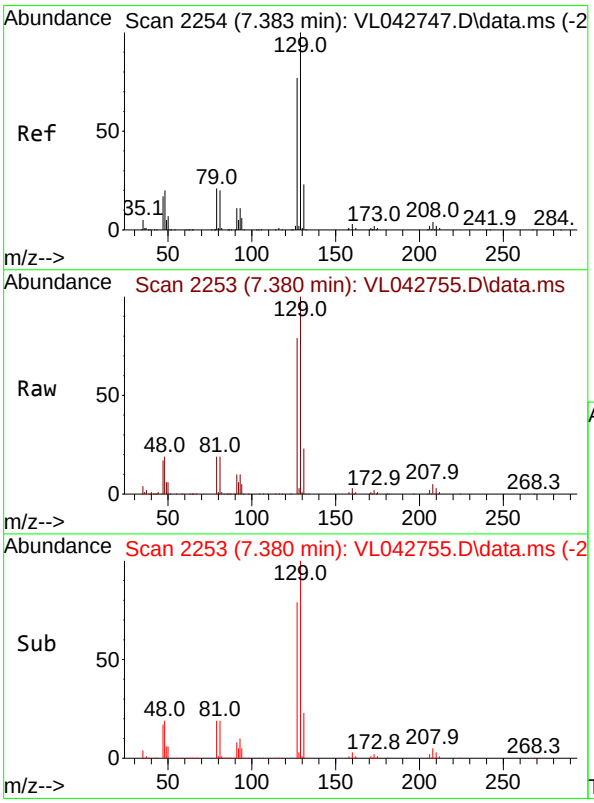
Ion	Ratio	Lower	Upper
97	100		
83	86.9	71.1	106.7
85	49.8	43.0	64.4
99	59.3	47.0	70.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

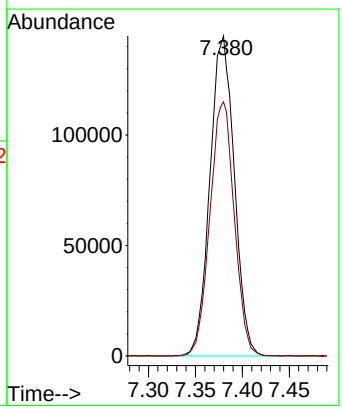
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

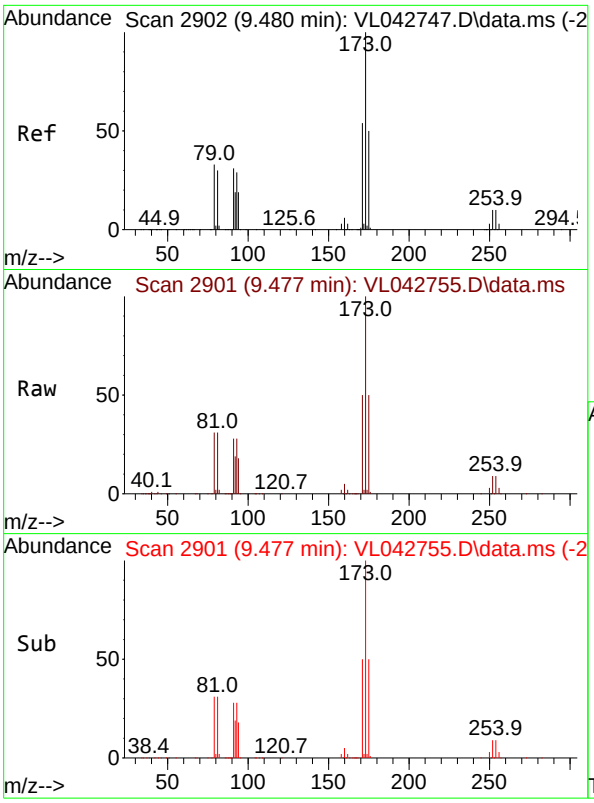


#48
Dibromochloromethane
Concen: 10.460 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:129 Resp: 261174

Ion	Ratio	Lower	Upper
129	100		
127	79.4	38.7	116.1

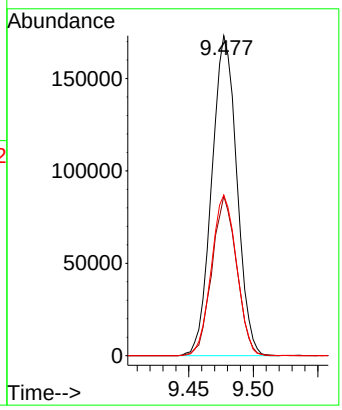




#49
Bromoform
Concen: 10.729 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:173 Resp: 23357

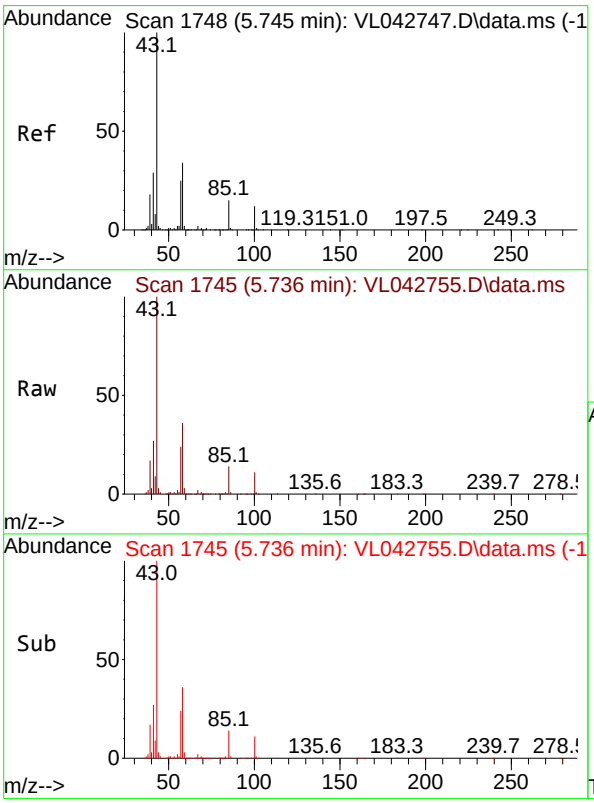
Ion	Ratio	Lower	Upper
173	100		
175	49.0	38.4	57.6
171	50.7	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

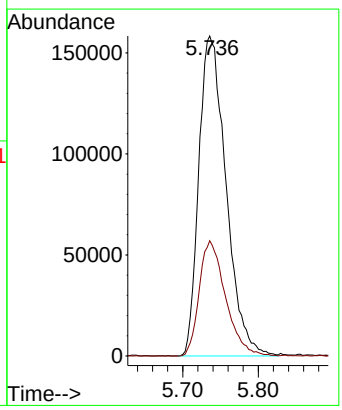
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

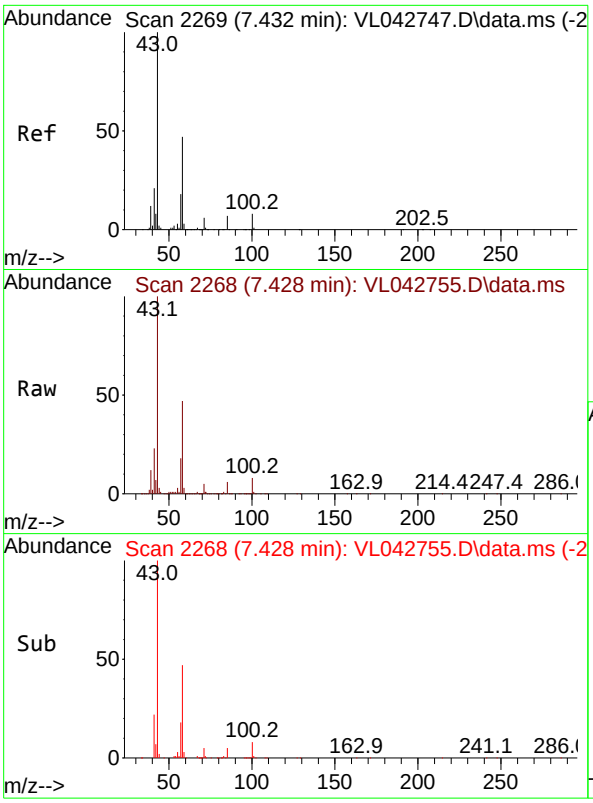


#50
4-Methyl-2-Pentanone
Concen: 10.303 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 43 Resp: 396506

Ion	Ratio	Lower	Upper
43	100		
58	34.9	27.8	41.8





#51
2-Hexanone
Concen: 11.029 ppbv
RT: 7.428 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

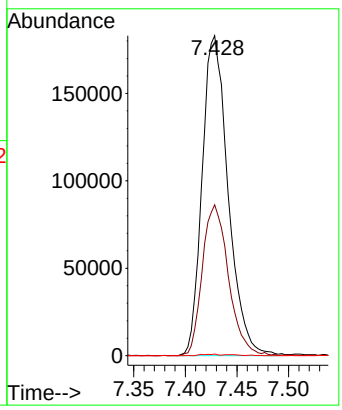
Tgt Ion: 43 Resp: 32074

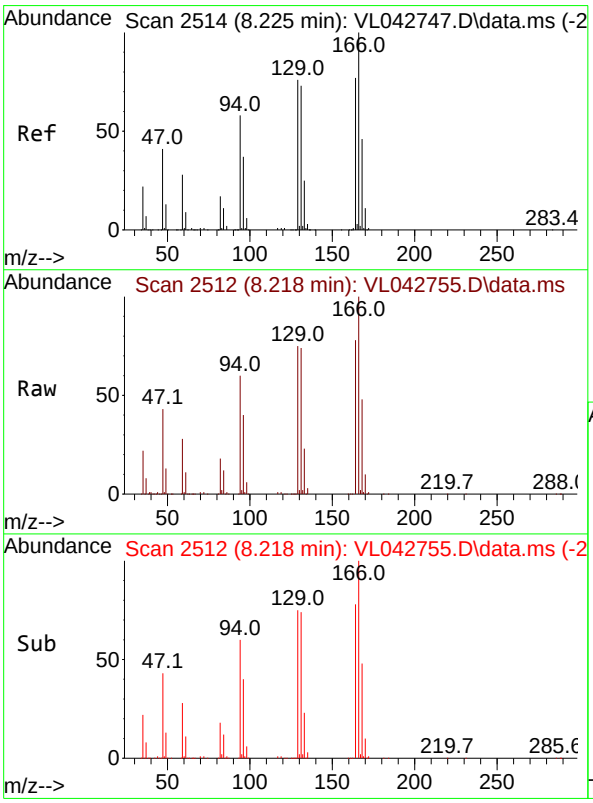
Ion	Ratio	Lower	Upper
43	100		
58	47.8	38.0	57.0
98	0.5	0.2	0.4

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

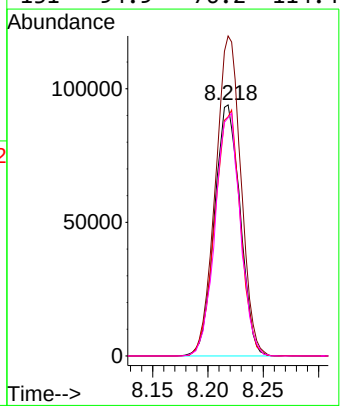


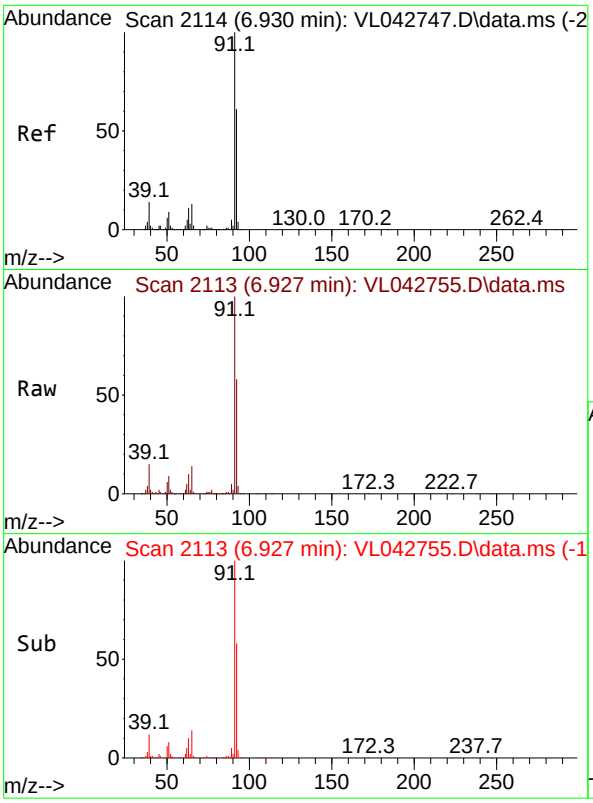


#52
Tetrachloroethene
Concen: 9.163 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:164 Resp: 151810

Ion	Ratio	Lower	Upper
164	100		
166	127.4	104.0	156.0
129	95.3	79.2	118.8
131	94.9	76.2	114.4

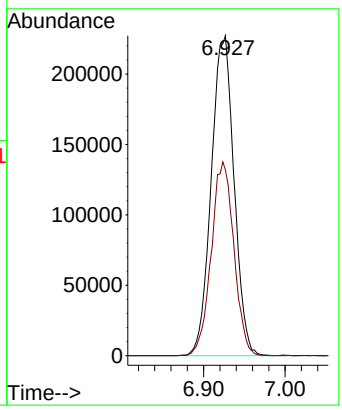




#53
Toluene
Concen: 10.294 ppbv
RT: 6.927 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 44182

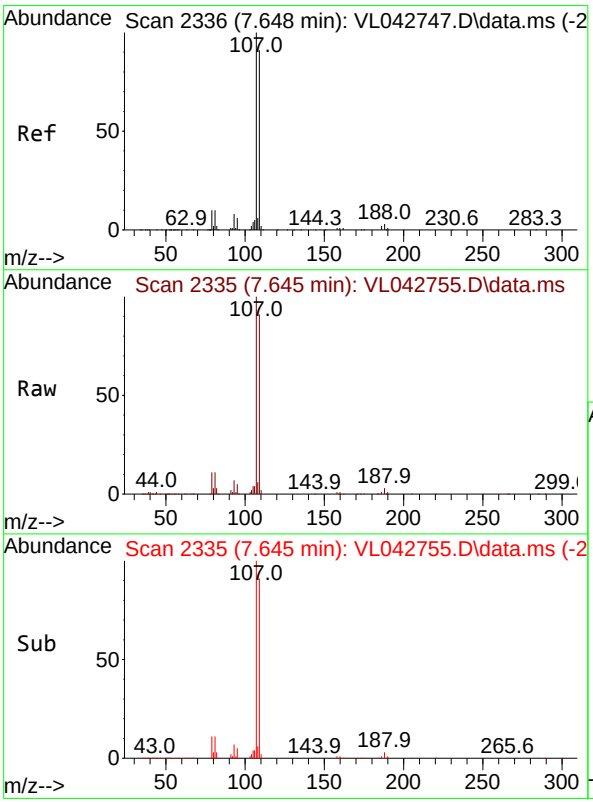
Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.0	72.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

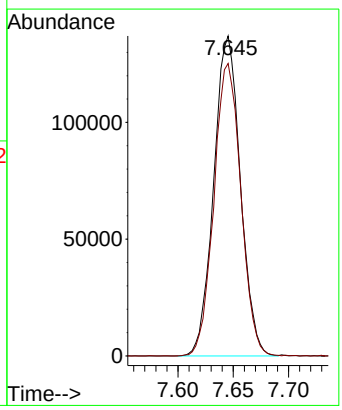
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

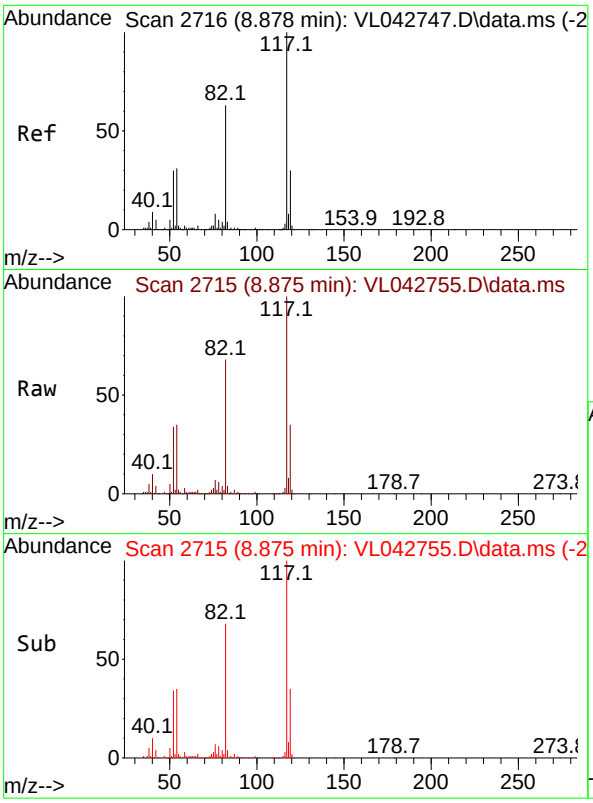


#54
1,2-Dibromoethane
Concen: 10.331 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:107 Resp: 229563

Ion	Ratio	Lower	Upper
107	100		
109	91.3	72.7	109.1

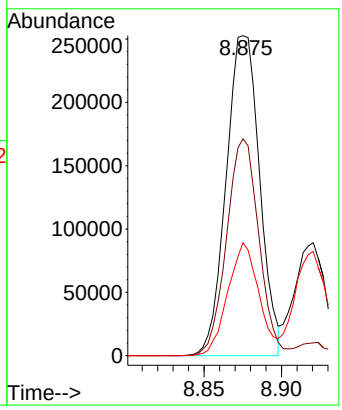




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:117 Resp: 38053

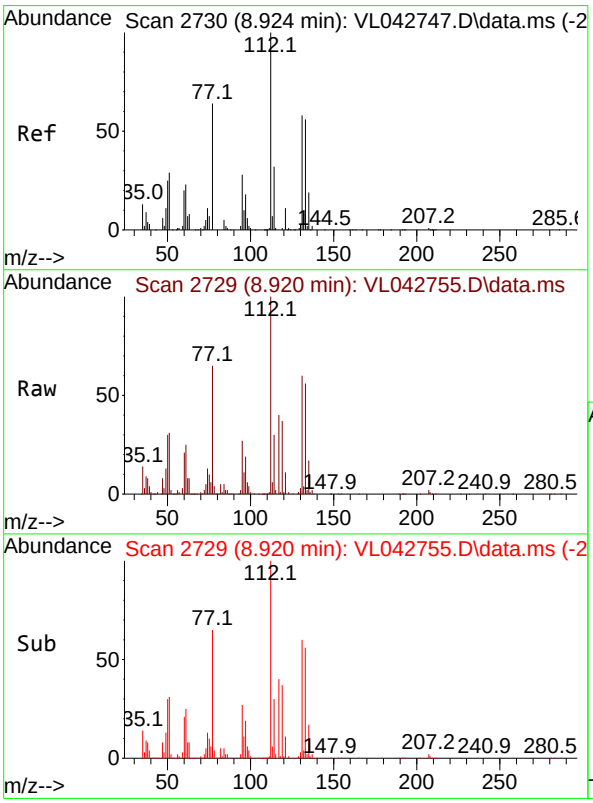
Ion	Ratio	Lower	Upper
117	100		
82	68.9	53.3	79.9
119	33.0	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

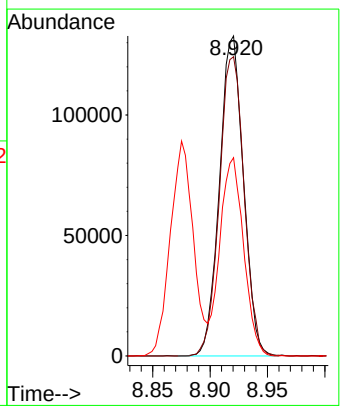
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

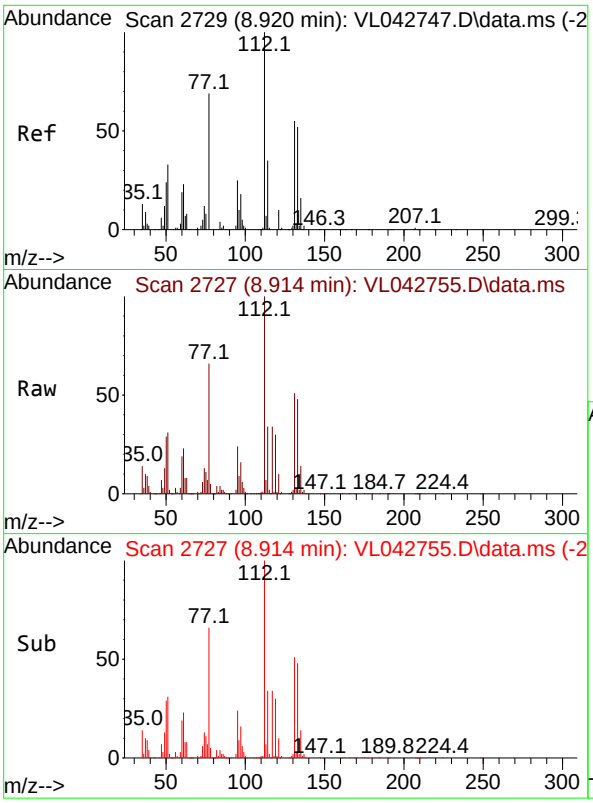


#56
1,1,1,2-Tetrachloroethane
Concen: 9.759 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:131 Resp: 193089

Ion	Ratio	Lower	Upper
131	100		
133	96.6	76.8	115.2
119	61.2	49.7	74.5





#57
Chlorobenzene
Concen: 9.623 ppbv
RT: 8.914 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

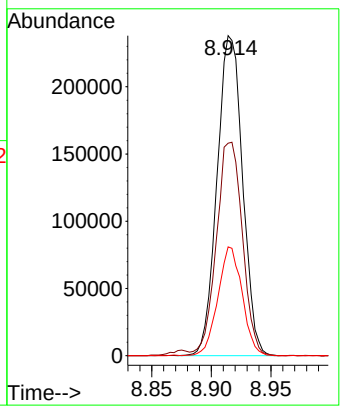
Tgt Ion:112 Resp: 35441

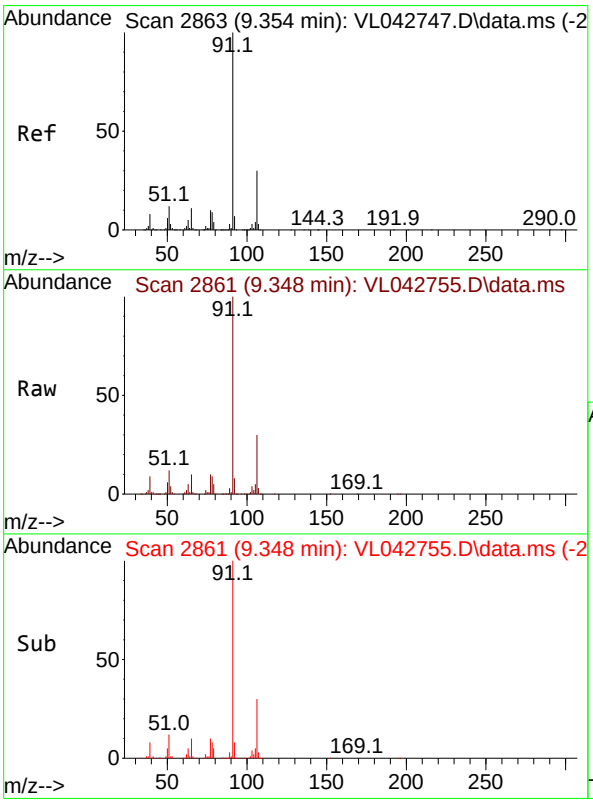
Ion	Ratio	Lower	Upper
112	100		
77	66.4	56.4	84.6
114	34.0	31.2	38.2

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

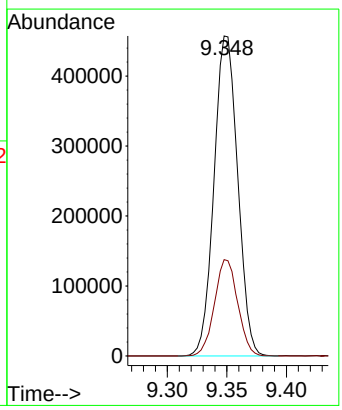


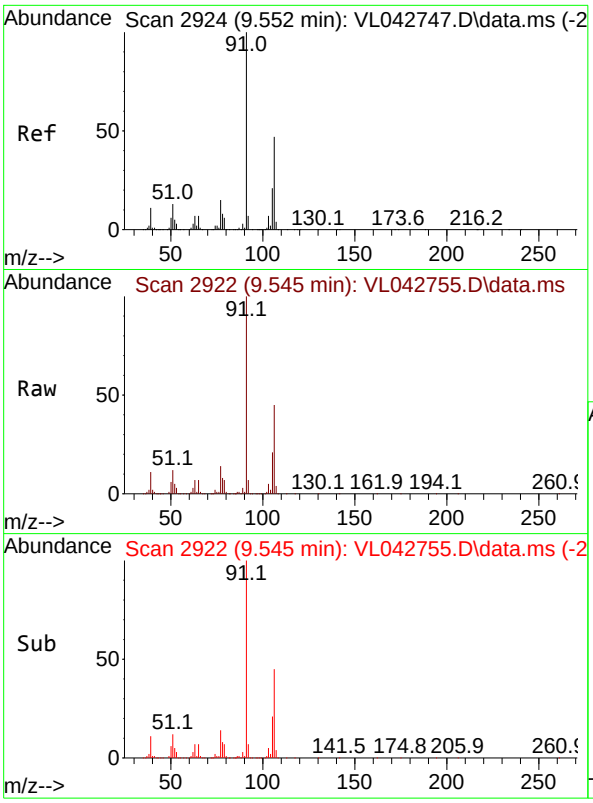


#58
Ethyl Benzene
Concen: 10.504 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 631247

Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.8	35.6

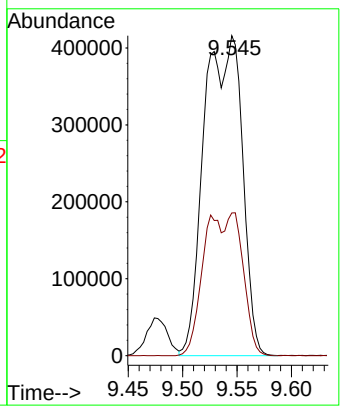




#59
m/p-Xylene
Concen: 21.160 ppbv m
RT: 9.545 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 101624

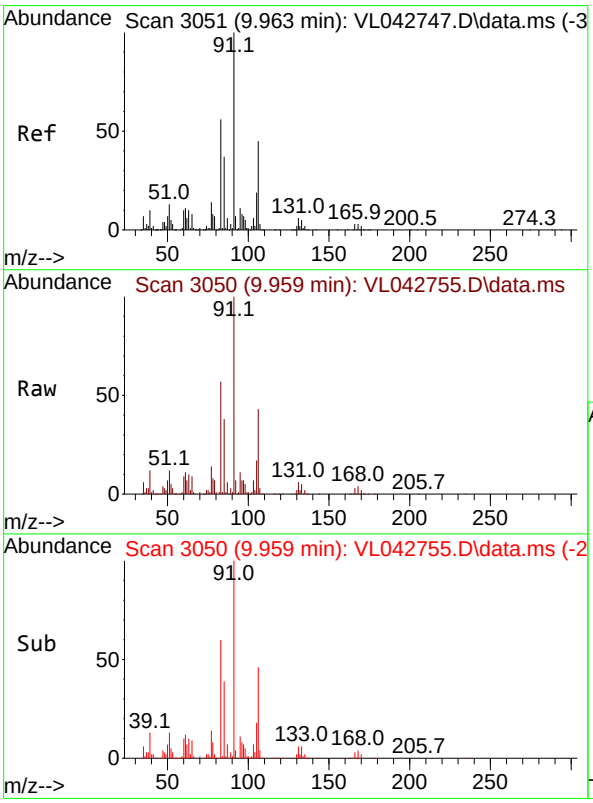
Ion	Ratio	Lower	Upper
91	100		
106	45.4	37.4	56.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

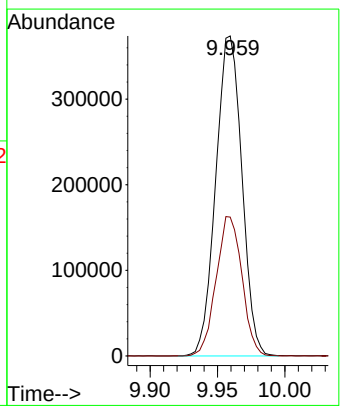
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

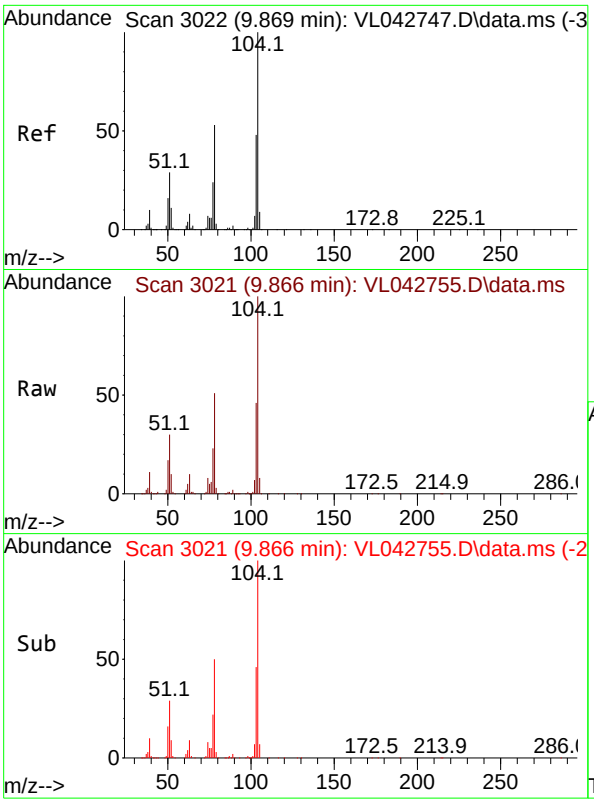


#60
o-Xylene
Concen: 10.499 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 503849

Ion	Ratio	Lower	Upper
91	100		
106	43.1	22.0	66.0

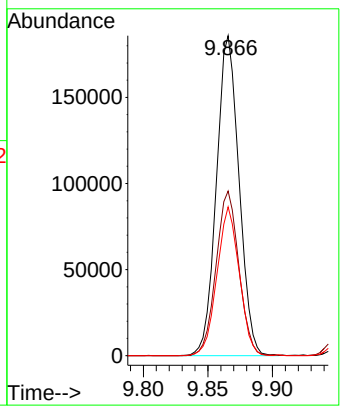




#61
Styrene
Concen: 11.185 ppbv
RT: 9.866 min Scan# 3(
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:104 Resp: 225799

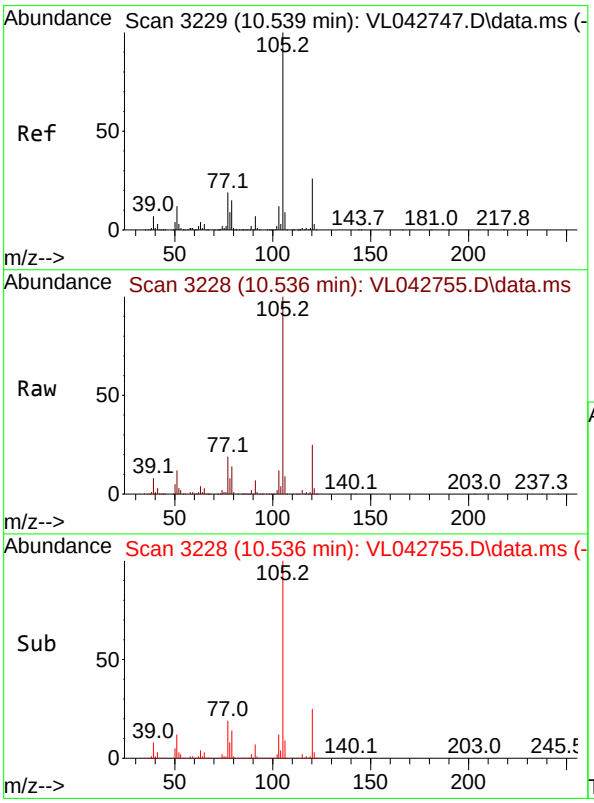
Ion	Ratio	Lower	Upper
104	100		
78	51.9	41.5	62.3
103	46.0	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

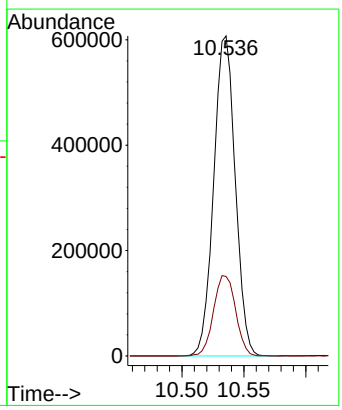
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

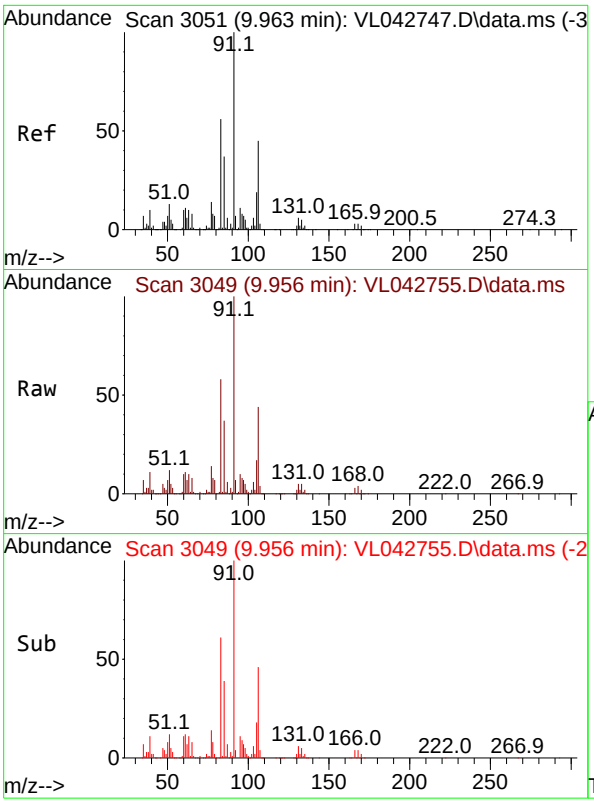


#62
Isopropylbenzene
Concen: 10.398 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 736044

Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.5	30.7

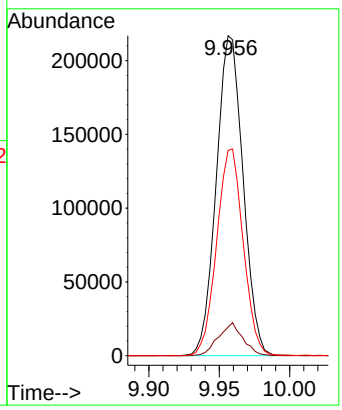




#63
1,1,2,2-Tetrachloroethane
Concen: 9.340 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 83 Resp: 28777

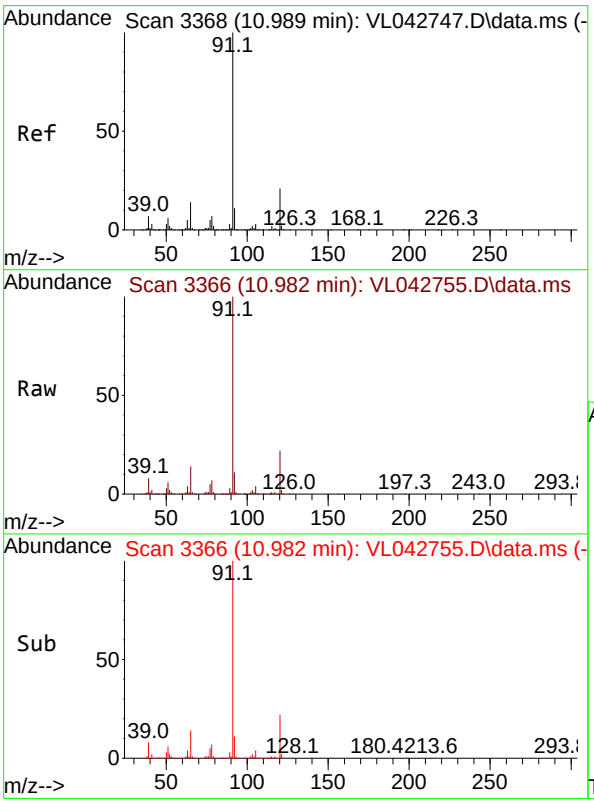
Ion	Ratio	Lower	Upper
83	100		
131	9.4	5.0	15.0
85	64.0	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

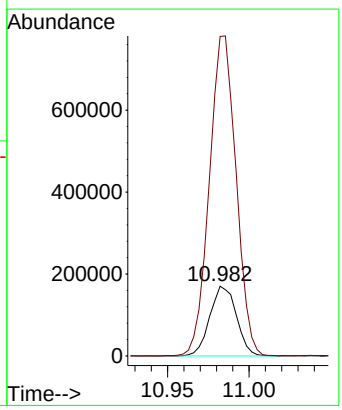
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

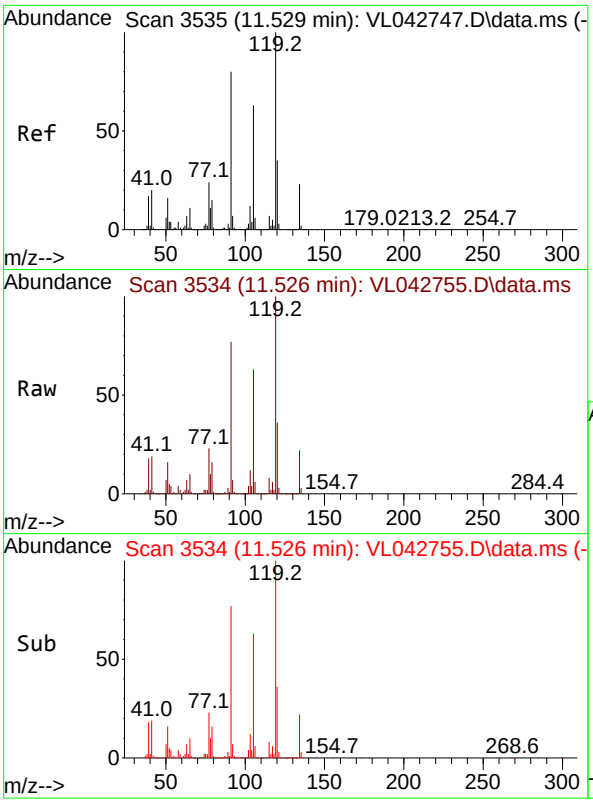


#64
n-propylbenzene
Concen: 10.460 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:120 Resp: 193034

Ion	Ratio	Lower	Upper
120	100		
91	461.7	372.7	559.1

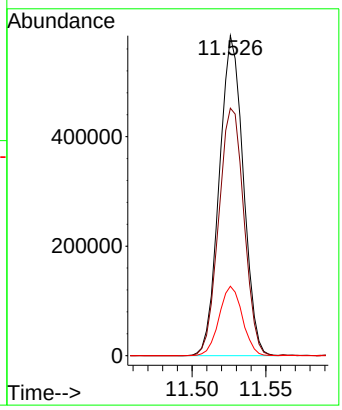




#65
tert-Butylbenzene
Concen: 10.512 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:119 Resp: 66096

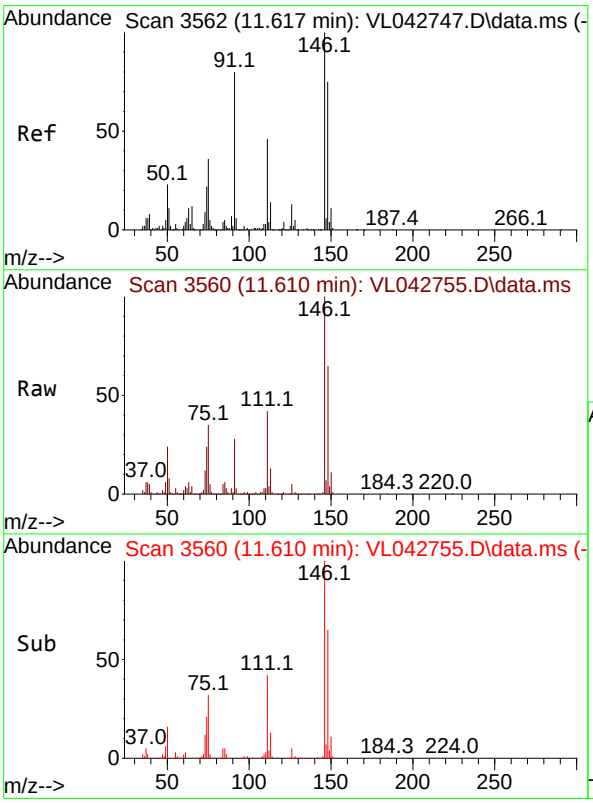
Ion	Ratio	Lower	Upper
119	100		
91	81.2	64.0	96.0
134	21.1	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

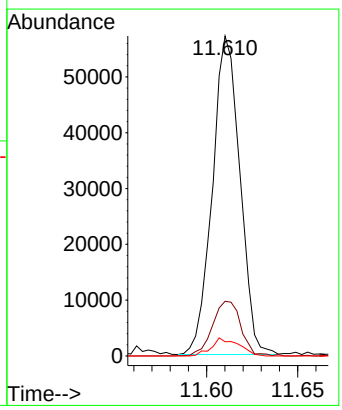
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

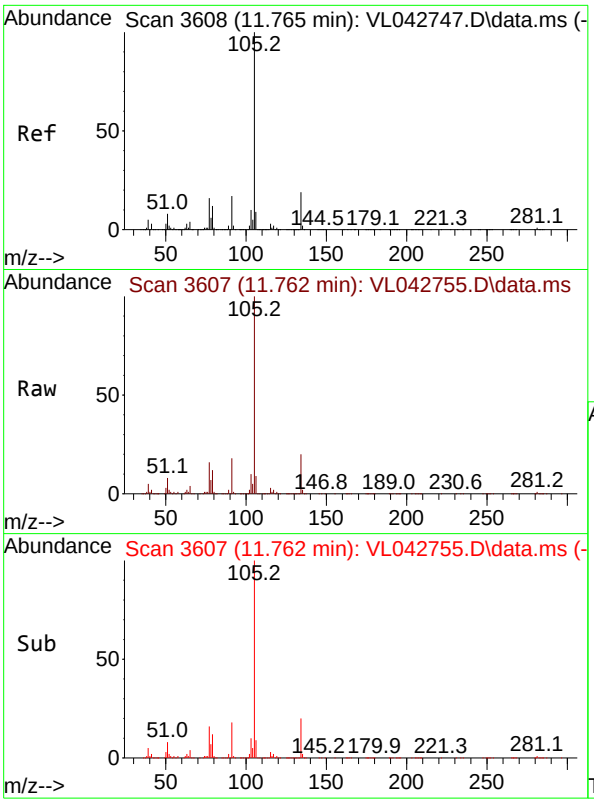


#66
Benzyl Chloride
Concen: 11.634 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 60055

Ion	Ratio	Lower	Upper
91	100		
126	17.7	14.4	21.6
128	5.6	5.2	7.8

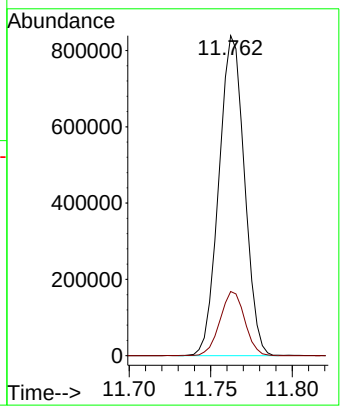




#67
sec-Butylbenzene
Concen: 10.221 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 91404

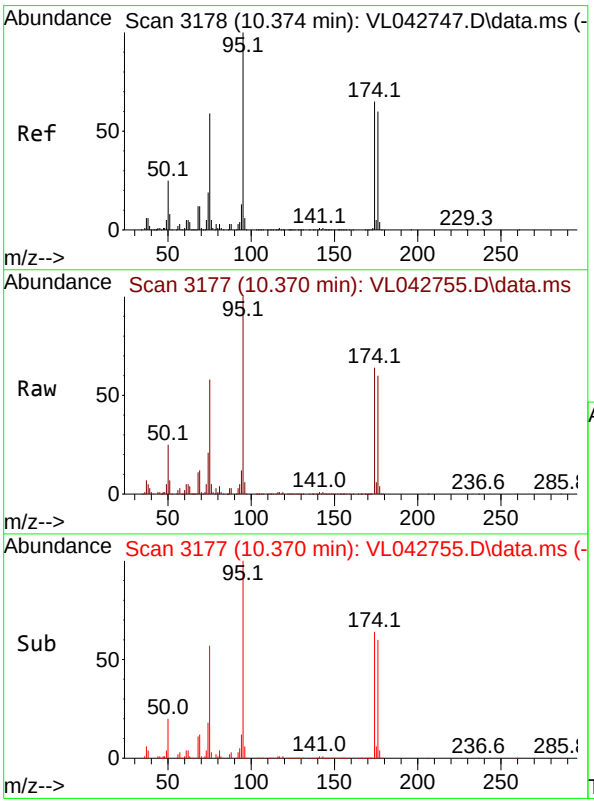
Ion	Ratio	Lower	Upper
105	100		
134	19.5	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

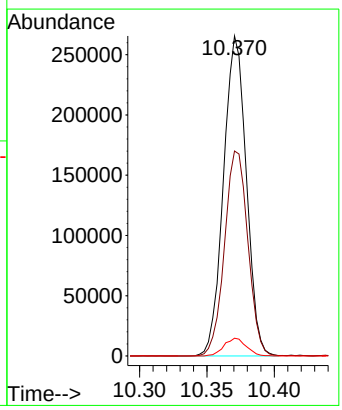
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

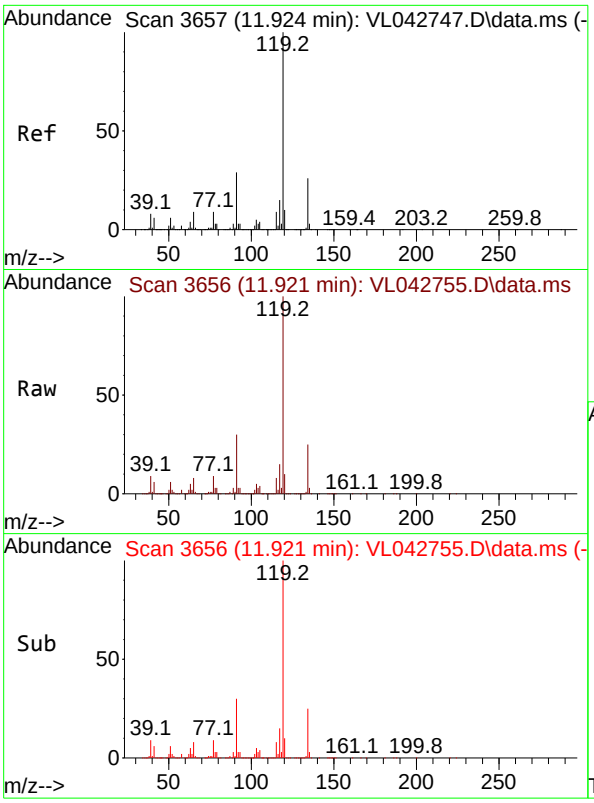


#68
1-Bromo-4-Fluorobenzene
Concen: 10.397 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 95 Resp: 313324

Ion	Ratio	Lower	Upper
95	100		
174	65.8	53.8	80.6
175	5.4	4.0	6.0

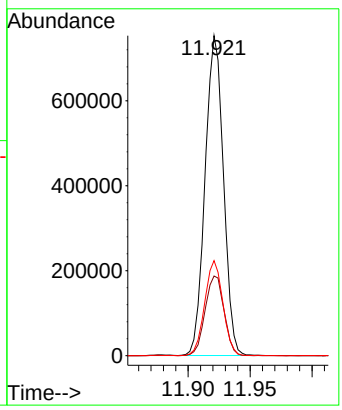




#69
p-Isopropyltoluene
Concen: 10.677 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:119 Resp: 77860

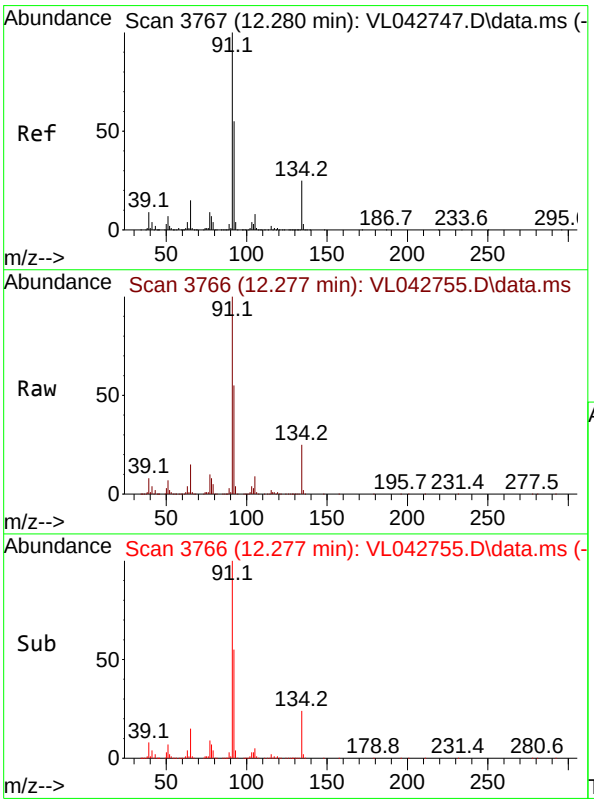
Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.6	31.0
91	29.5	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

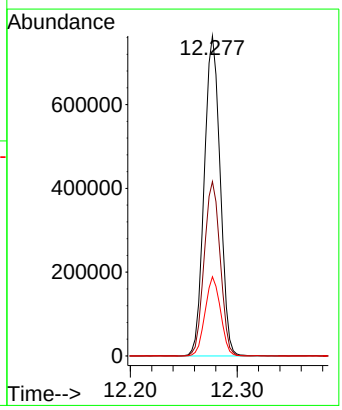
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

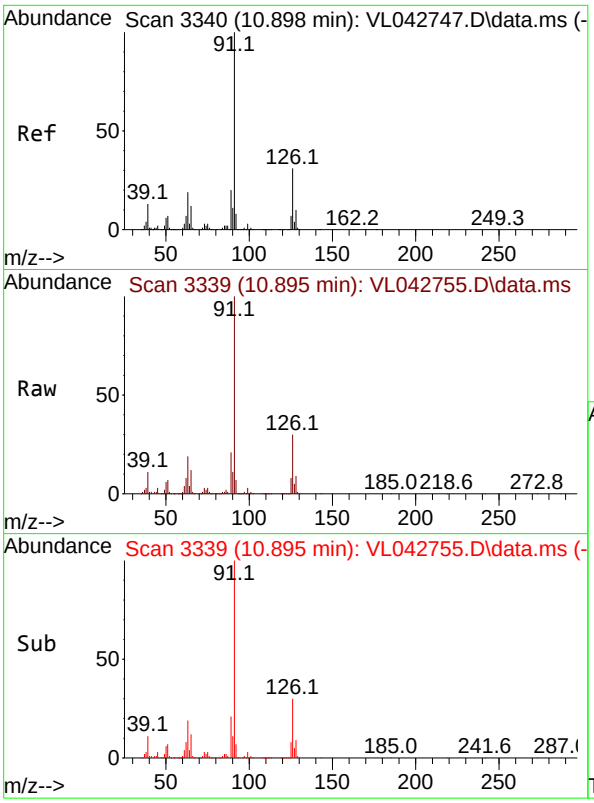


#70
n-Butylbenzene
Concen: 11.197 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 788734

Ion	Ratio	Lower	Upper
91	100		
92	55.0	43.4	65.2
134	24.1	19.6	29.4

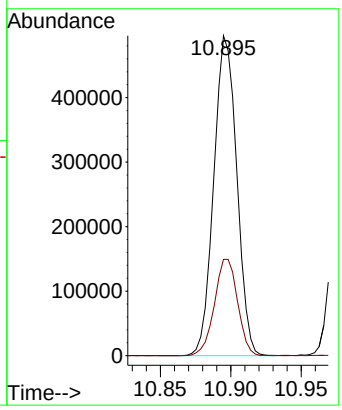




#71
2-Chlorotoluene
Concen: 10.376 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 56319

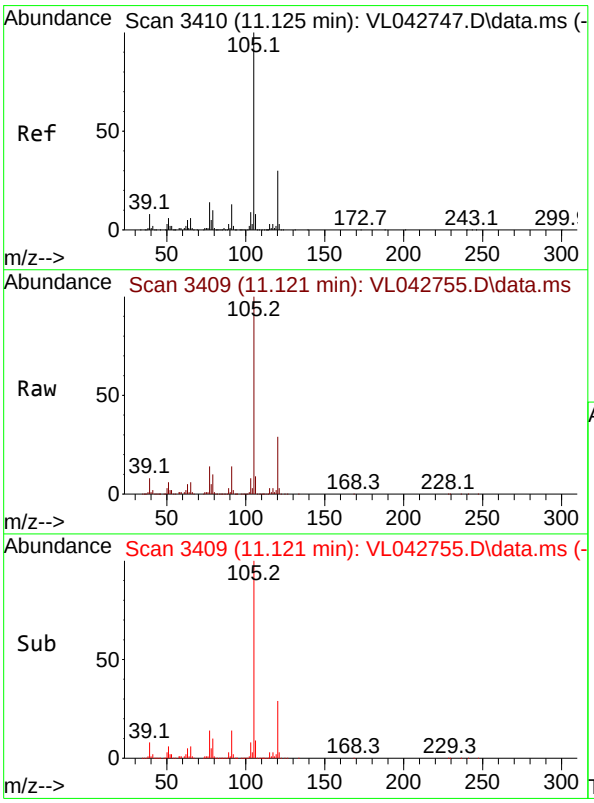
Ion	Ratio	Lower	Upper
91	100		
126	30.4	12.0	48.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

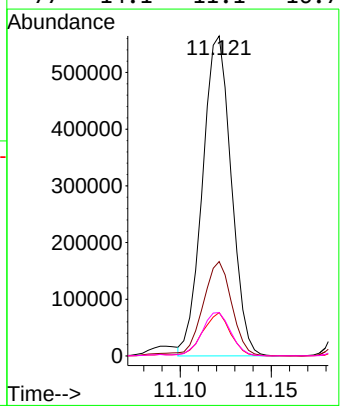
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

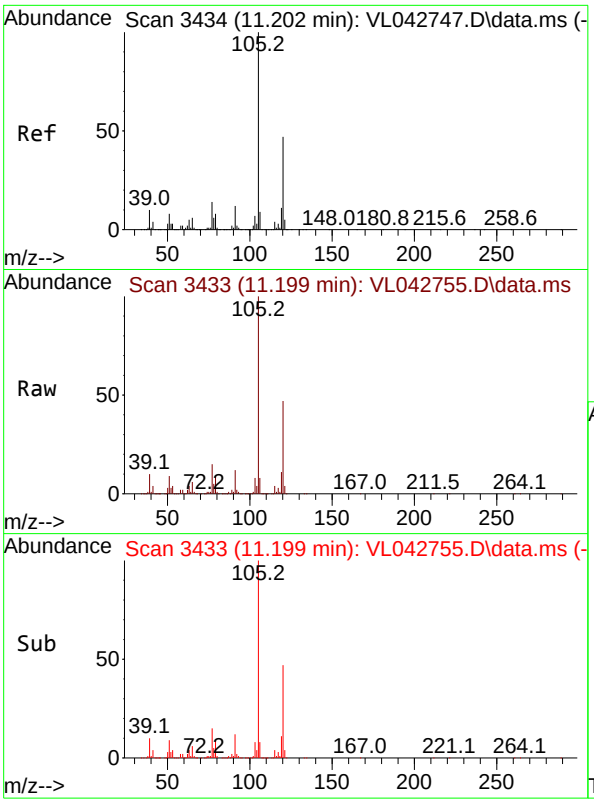


#72
4-Ethyltoluene
Concen: 10.772 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 617355

Ion	Ratio	Lower	Upper
105	100		
120	30.2	24.4	36.6
91	13.4	10.6	15.8
77	14.1	11.1	16.7

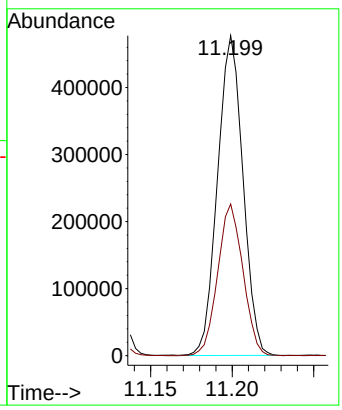




#73
1,3,5-Trimethylbenzene
Concen: 10.951 ppbv
RT: 11.199 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 51673

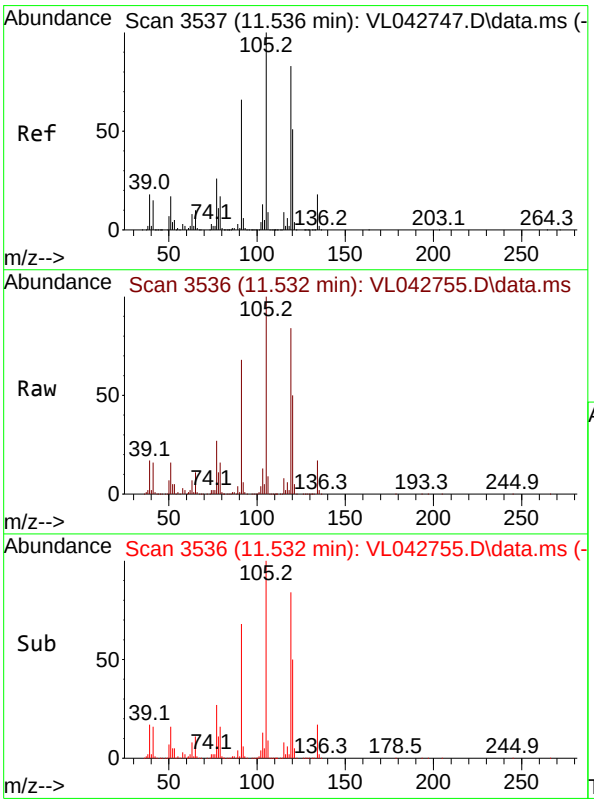
Ion	Ratio	Lower	Upper
105	100		
120	47.5	37.8	56.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

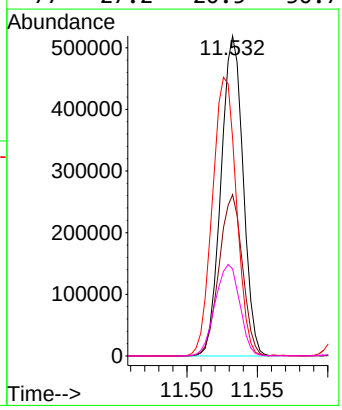
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

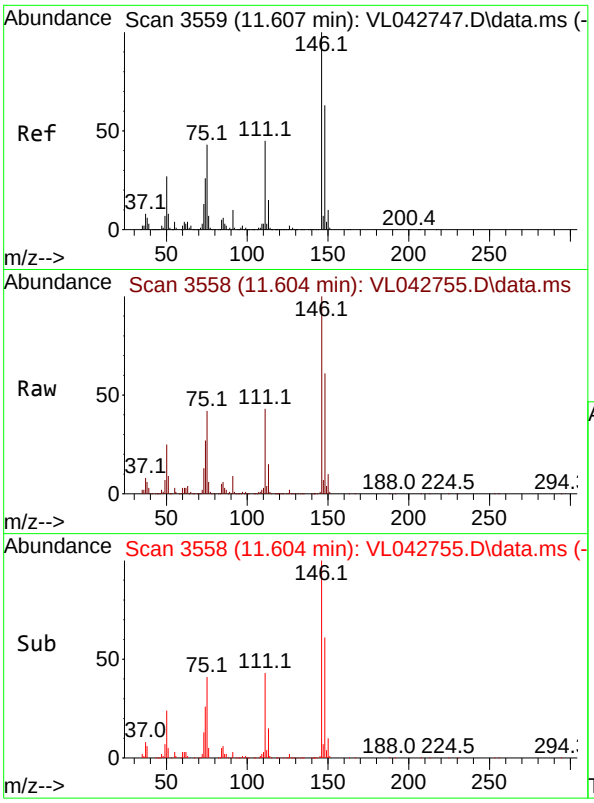


#74
1,2,4-Trimethylbenzene
Concen: 11.017 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 567186

Ion	Ratio	Lower	Upper
105	100		
120	50.4	40.8	61.2
91	68.1	53.0	79.4
77	27.2	20.5	30.7

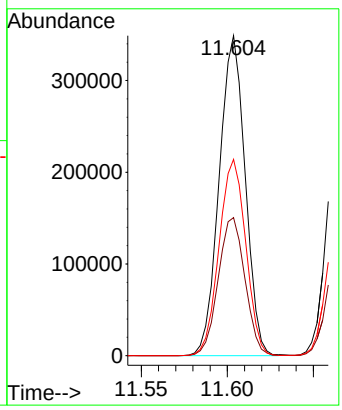




#75
1,3-Dichlorobenzene
Concen: 10.165 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:146 Resp: 36685

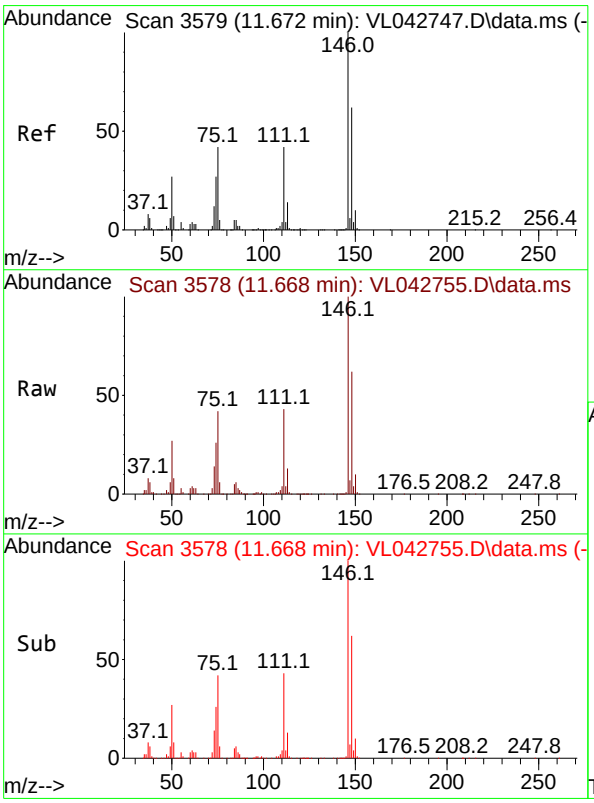
Ion	Ratio	Lower	Upper
146	100		
111	44.3	22.7	68.0
148	63.1	31.9	95.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

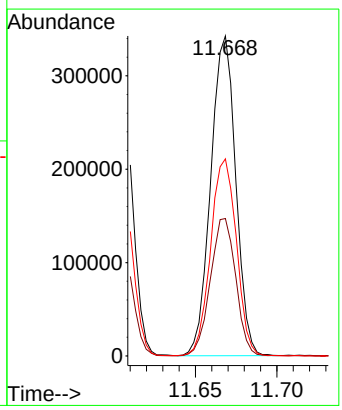
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

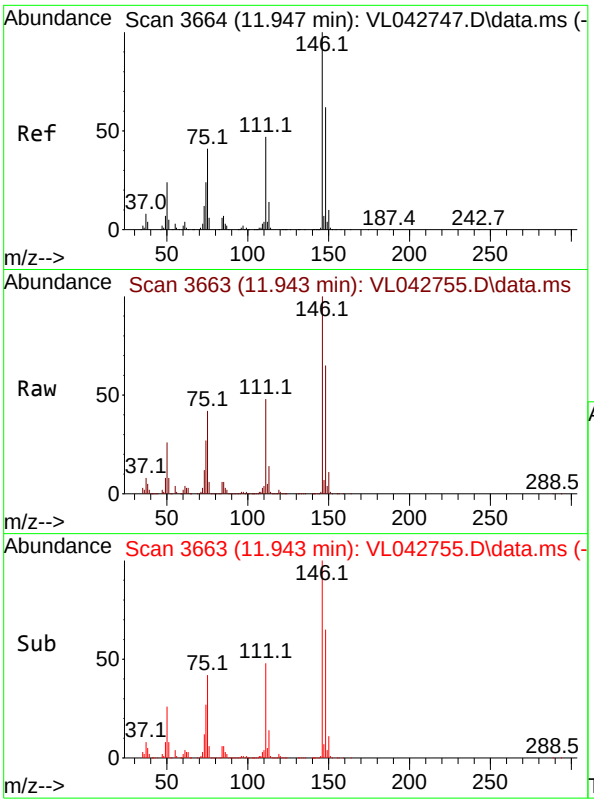


#76
1,4-Dichlorobenzene
Concen: 10.333 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:146 Resp: 364937

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.4	64.2
148	63.8	32.1	96.3

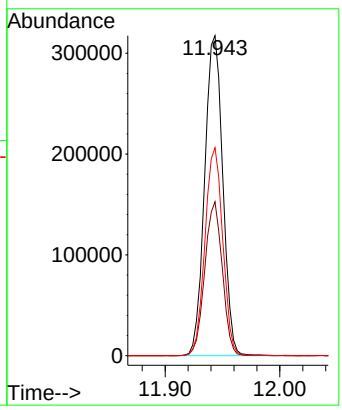




#77
1,2-Dichlorobenzene
Concen: 9.839 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:146 Resp: 34899

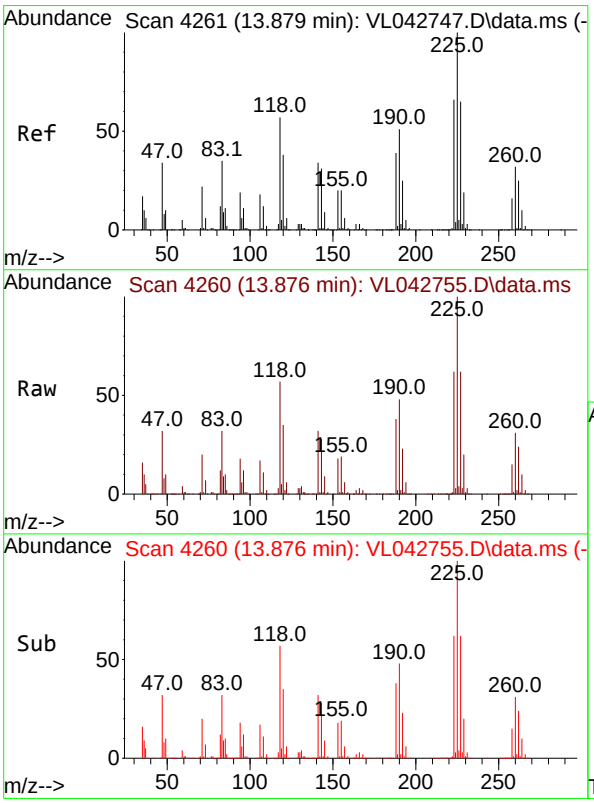
Ion	Ratio	Lower	Upper
146	100		
111	46.7	23.7	71.1
148	63.8	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

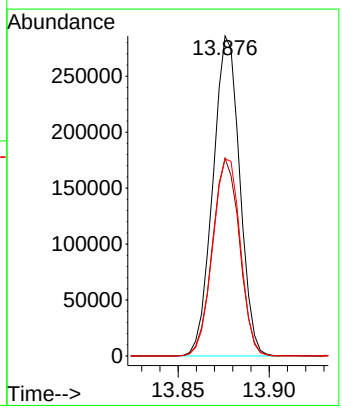
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

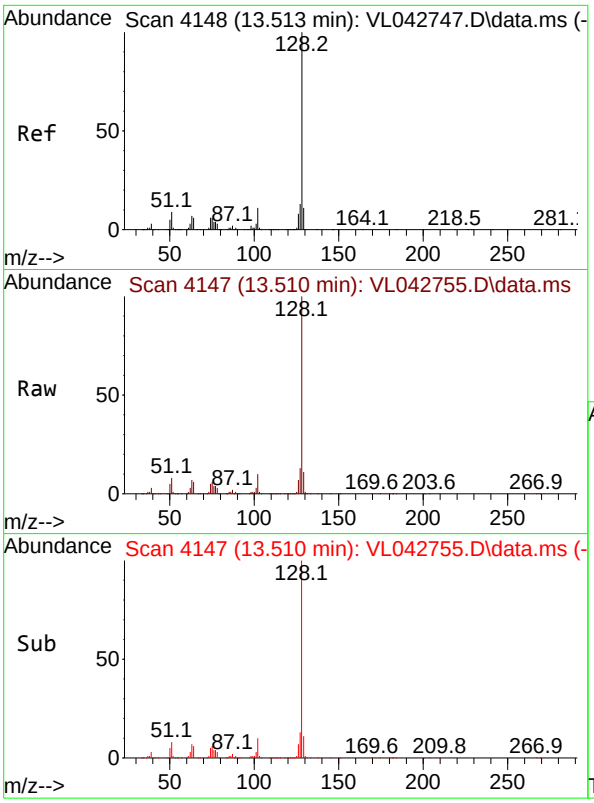


#78
Hexachloro-1,3-Butadiene
Concen: 9.091 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:225 Resp: 291861

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.7	76.1
227	63.5	50.5	75.7

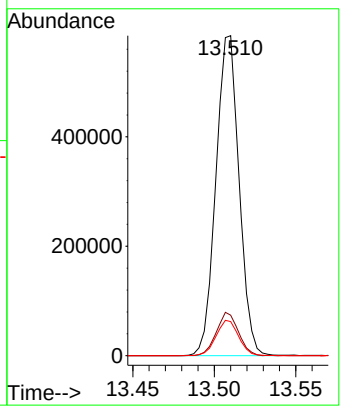




#79
Naphthalene
Concen: 10.342 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:128 Resp: 57856

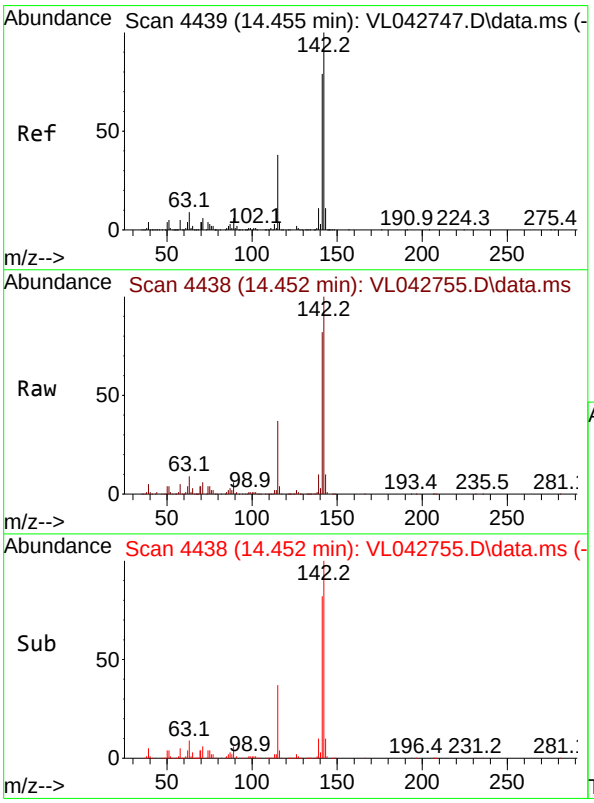
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.6	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

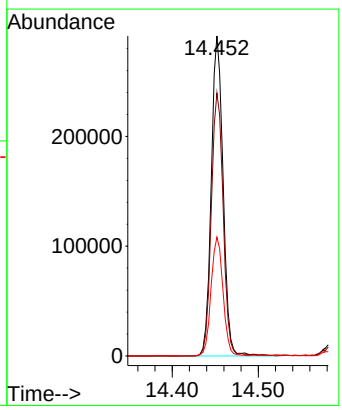
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

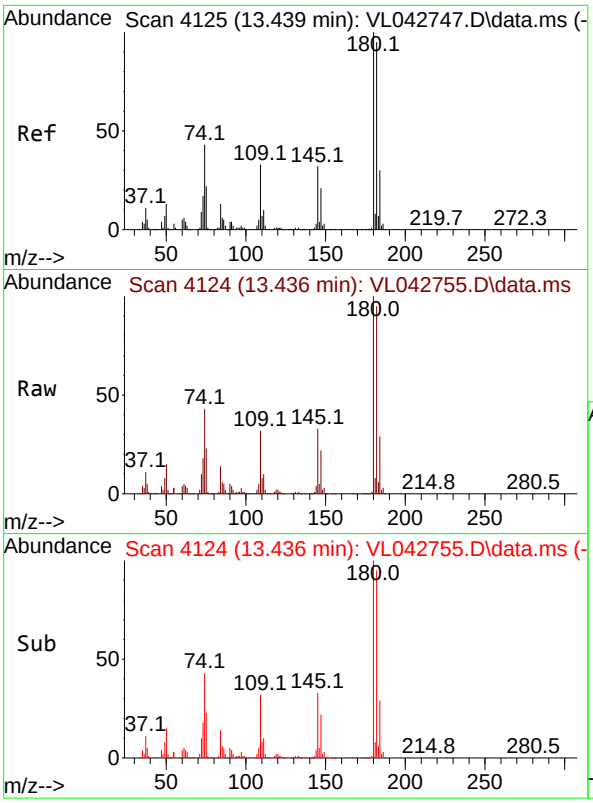


#80
Naphthalene,2-methyl-
Concen: 9.951 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:142 Resp: 277798

Ion	Ratio	Lower	Upper
142	100		
141	83.6	65.8	98.8
115	38.2	31.2	46.8

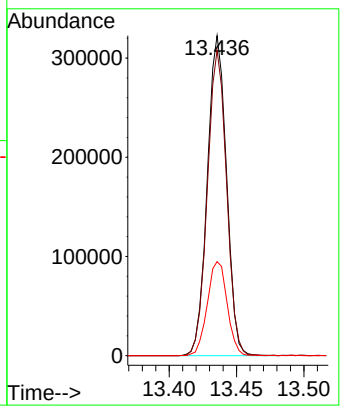




#81
1,2,4-Trichlorobenzene
Concen: 10.181 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:180 Resp: 31989

Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.2	114.2
184	30.5	24.8	37.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042755.D
Acq On : 23 Jul 2025 14:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Quant Time: Jul 24 05:28:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 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	1.322	1.252	5.3	97	0.00
3		Chlorodifluoromethane	1.722	1.641	4.7	94	0.00
4		Chloromethane	0.535	0.488	8.8	94	0.00
5	T	Vinyl Chloride	0.528	0.437	17.2	99	0.00
6	T	Bromomethane	0.204	0.183	10.3	96	0.00
7		Chloroethane	0.204	0.176	13.7	93	0.00
8	T	Dichlorotetrafluoroethane	1.087	1.005	7.5	95	0.00
9	T	Propene	0.626	0.583	6.9	91	0.00
10	T	Heptane	1.688	1.675	0.8	95	0.00
11	T	Trichlorofluoromethane	1.363	1.213	11.0	92	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.036	0.934	9.8	92	0.00
13		Ethanol	0.083	0.052	37.3#	97	0.00
14	T	Bromoethene	0.367	0.331	9.8	91	0.00
15	T	Acetone	1.381	1.011	26.8	94	0.00
16	T	1,3-Butadiene	0.589	0.534	9.3	98	0.00
17		tert-Butyl alcohol	1.245	1.149	7.7	92	0.00
18	T	1,1-Dichloroethene	0.468	0.420	10.3	97	0.00
19	T	Isopropyl Alcohol	0.734	0.661	9.9	93	0.00
20	T	Methylene Chloride	0.435	0.362	16.8	100	0.00
21	T	Allyl Chloride	0.851	0.803	5.6	94	0.00
22	T	trans-1,2-Dichloroethene	0.503	0.469	6.8	95	0.00
23	T	Vinyl Acetate	1.674	1.769	-5.7	97	0.00
24	T	1,1-Dichloroethane	1.033	0.929	10.1	92	0.00
25	T	Ethyl Acetate	3.056	3.000	1.8	95	0.00
26	T	Hexane	1.341	1.287	4.0	93	0.00
27	T	Carbon Disulfide	1.148	1.108	3.5	95	0.00
28	T	Methyl tert-Butyl Ether	0.633	0.577	8.8	97	0.00
29	T	Chloroform	2.072	1.998	3.6	97	0.00
30	T	Cyclohexane	1.137	1.111	2.3	92	0.00
31	T	cis-1,2-Dichloroethene	1.378	1.351	2.0	96	0.00
32	T	1,1,1-Trichloroethane	2.158	1.979	8.3	94	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34	T	2-Butanone	0.708	0.699	1.3	96	0.00
35	T	Carbon Tetrachloride	0.743	0.735	1.1	96	0.00
36	T	Benzene	0.948	0.932	1.7	95	0.00
37	T	1,2-Dichloroethane	0.571	0.565	1.1	96	0.00
38	T	Trichloroethene	0.455	0.423	7.0	95	0.00
39	T	1,2-Dichloropropane	0.350	0.335	4.3	94	0.00
40	T	1,4-Dioxane	0.163	0.155	4.9	100	0.00
41	T	Tetrahydrofuran	0.360	0.375	-4.2	95	0.00
42	T	Bromodichloromethane	0.744	0.762	-2.4	96	0.00
43		Methyl Methacrylate	0.337	0.362	-7.4	95	0.00
44	T	2,2,4-Trimethylpentane	1.545	1.541	0.3	94	0.00
45	T	t-1,3-Dichloropropene	0.378	0.402	-6.3	91	0.00
46	T	cis-1,3-Dichloropropene	0.479	0.511	-6.7	92	0.00
47	T	1,1,2-Trichloroethane	0.373	0.367	1.6	97	-0.02
48	T	Dibromochloromethane	0.592	0.619	-4.6	94	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042755.D
Acq On : 23 Jul 2025 14:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Quant Time: Jul 24 05:28:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 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	0.516	0.554	-7.4	95	0.00
50	T	4-Methyl-2-Pentanone	0.912	0.940	-3.1	96	0.00
51	T	2-Hexanone	0.690	0.761	-10.3	95	0.00
52	T	Tetrachloroethene	0.393	0.360	8.4	97	0.00
53	T	Toluene	1.018	1.048	-2.9	93	0.00
54	T	1,2-Dibromoethane	0.527	0.544	-3.2	96	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56		1,1,1,2-Tetrachloroethane	0.520	0.507	2.5	95	0.00
57	T	Chlorobenzene	0.968	0.931	3.8	95	0.00
58	T	Ethyl Benzene	1.579	1.659	-5.1	96	0.00
59	T	m/p-Xylene	1.262	1.335	-5.8	97	0.00
60	T	o-Xylene	1.261	1.324	-5.0	97	0.00
61	T	Styrene	0.531	0.593	-11.7	95	0.00
62		Isopropylbenzene	1.860	1.934	-4.0	97	0.00
63	T	1,1,2,2-Tetrachloroethane	0.810	0.756	6.7	98	0.00
64		n-propylbenzene	0.485	0.507	-4.5	97	0.00
65		tert-Butylbenzene	1.652	1.737	-5.1	97	0.00
66	T	Benzyl Chloride	0.136	0.158	-16.2	90	0.00
67		sec-Butylbenzene	2.350	2.402	-2.2	97	0.00
68	S	1-Bromo-4-Fluorobenzene	0.792	0.823	-3.9	93	0.00
69		p-Isopropyltoluene	1.916	2.046	-6.8	96	0.00
70		n-Butylbenzene	1.851	2.073	-12.0	96	0.00
71		2-Chlorotoluene	1.426	1.480	-3.8	96	0.00
72	T	4-Ethyltoluene	1.506	1.622	-7.7	96	0.00
73	T	1,3,5-Trimethylbenzene	1.240	1.358	-9.5	96	0.00
74	T	1,2,4-Trimethylbenzene	1.353	1.490	-10.1	97	0.00
75	T	1,3-Dichlorobenzene	0.948	0.964	-1.7	98	0.00
76	T	1,4-Dichlorobenzene	0.928	0.959	-3.3	97	0.00
77	T	1,2-Dichlorobenzene	0.932	0.917	1.6	97	0.00
78	T	Hexachloro-1,3-Butadiene	0.844	0.767	9.1	97	0.00
79	T	Naphthalene	0.958	1.520	-58.7#	97	0.00
80	T	Naphthalene,2-methyl-	0.326	0.730	-123.9#	96	0.00
81	T	1,2,4-Trichlorobenzene	0.635	0.841	-32.4#	95	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\VL072325\
Data File : VL042755.D
Acq On : 23 Jul 2025 14:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Quant Time: Jul 24 05:28:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 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	9.472	5.3	97	0.00
3		Chlorodifluoromethane	10.000	9.525	4.7	94	0.00
4		Chloromethane	10.000	9.119	8.8	94	0.00
5	T	Vinyl Chloride	10.000	8.265	17.3	99	0.00
6	T	Bromomethane	10.000	8.957	10.4	96	0.00
7		Chloroethane	10.000	8.641	13.6	93	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.244	7.6	95	0.00
9	T	Propene	10.000	9.316	6.8	91	0.00
10	T	Heptane	10.000	9.921	0.8	95	0.00
11	T	Trichlorofluoromethane	10.000	8.902	11.0	92	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.023	9.8	92	0.00
13		Ethanol	10.000	10.243	-2.4	97	0.00
14	T	Bromoethene	10.000	9.020	9.8	91	0.00
15	T	Acetone	10.000	7.324	26.8	94	0.00
16	T	1,3-Butadiene	10.000	9.072	9.3	98	0.00
17		tert-Butyl alcohol	10.000	9.225	7.8	92	0.00
18	T	1,1-Dichloroethene	10.000	8.970	10.3	97	0.00
19	T	Isopropyl Alcohol	10.000	9.006	9.9	93	0.00
20	T	Methylene Chloride	10.000	8.320	16.8	100	0.00
21	T	Allyl Chloride	10.000	9.441	5.6	94	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.322	6.8	95	0.00
23	T	Vinyl Acetate	10.000	10.568	-5.7	97	0.00
24	T	1,1-Dichloroethane	10.000	8.993	10.1	92	0.00
25	T	Ethyl Acetate	10.000	9.816	1.8	95	0.00
26	T	Hexane	10.000	9.597	4.0	93	0.00
27	T	Carbon Disulfide	10.000	9.652	3.5	95	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.114	8.9	97	0.00
29	T	Chloroform	10.000	9.643	3.6	97	0.00
30	T	Cyclohexane	10.000	9.773	2.3	92	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.802	2.0	96	0.00
32	T	1,1,1-Trichloroethane	10.000	9.172	8.3	94	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34	T	2-Butanone	10.000	9.869	1.3	96	0.00
35	T	Carbon Tetrachloride	10.000	9.900	1.0	96	0.00
36	T	Benzene	10.000	9.834	1.7	95	0.00
37	T	1,2-Dichloroethane	10.000	9.895	1.1	96	0.00
38	T	Trichloroethene	10.000	9.301	7.0	95	0.00
39	T	1,2-Dichloropropane	10.000	9.578	4.2	94	0.00
40	T	1,4-Dioxane	10.000	9.481	5.2	100	0.00
41	T	Tetrahydrofuran	10.000	10.404	-4.0	95	0.00
42	T	Bromodichloromethane	10.000	10.254	-2.5	96	0.00
43		Methyl Methacrylate	10.000	10.738	-7.4	95	0.00
44	T	2,2,4-Trimethylpentane	10.000	9.973	0.3	94	0.00
45	T	t-1,3-Dichloropropene	10.000	10.643	-6.4	91	0.00
46	T	cis-1,3-Dichloropropene	10.000	10.679	-6.8	92	0.00
47	T	1,1,2-Trichloroethane	10.000	9.848	1.5	97	-0.02
48	T	Dibromochloromethane	10.000	10.460	-4.6	94	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042755.D
Acq On : 23 Jul 2025 14:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Quant Time: Jul 24 05:28:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 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	10.729	-7.3	95	0.00
50	T	4-Methyl-2-Pentanone	10.000	10.303	-3.0	96	0.00
51	T	2-Hexanone	10.000	11.029	-10.3	95	0.00
52	T	Tetrachloroethene	10.000	9.163	8.4	97	0.00
53	T	Toluene	10.000	10.294	-2.9	93	0.00
54	T	1,2-Dibromoethane	10.000	10.331	-3.3	96	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56		1,1,1,2-Tetrachloroethane	10.000	9.759	2.4	95	0.00
57	T	Chlorobenzene	10.000	9.623	3.8	95	0.00
58	T	Ethyl Benzene	10.000	10.504	-5.0	96	0.00
59	T	m/p-Xylene	20.000	21.160	-5.8	97	0.00
60	T	o-Xylene	10.000	10.499	-5.0	97	0.00
61	T	Styrene	10.000	11.185	-11.9	95	0.00
62		Isopropylbenzene	10.000	10.398	-4.0	97	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	9.340	6.6	98	0.00
64		n-propylbenzene	10.000	10.460	-4.6	97	0.00
65		tert-Butylbenzene	10.000	10.512	-5.1	97	0.00
66	T	Benzyl Chloride	10.000	11.634	-16.3	90	0.00
67		sec-Butylbenzene	10.000	10.221	-2.2	97	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.397	-4.0	93	0.00
69		p-Isopropyltoluene	10.000	10.677	-6.8	96	0.00
70		n-Butylbenzene	10.000	11.197	-12.0	96	0.00
71		2-Chlorotoluene	10.000	10.376	-3.8	96	0.00
72	T	4-Ethyltoluene	10.000	10.772	-7.7	96	0.00
73	T	1,3,5-Trimethylbenzene	10.000	10.951	-9.5	96	0.00
74	T	1,2,4-Trimethylbenzene	10.000	11.017	-10.2	97	0.00
75	T	1,3-Dichlorobenzene	10.000	10.165	-1.6	98	0.00
76	T	1,4-Dichlorobenzene	10.000	10.333	-3.3	97	0.00
77	T	1,2-Dichlorobenzene	10.000	9.839	1.6	97	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	9.091	9.1	97	0.00
79	T	Naphthalene	10.000	10.342	-3.4	97	0.00
80	T	Naphthalene,2-methyl-	10.000	9.951	0.5	96	0.00
81	T	1,2,4-Trichlorobenzene	10.000	10.181	-1.8	95	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: MATR02
Lab Code: ACE
SDG No.: Q2750
Instrument ID: MSVOA_L
Calibration Date/Time: 08/04/2025 09:31
Lab File ID: VL042796.D
Init. Calib. Date(s): 07/23/2025 07/23/2025
Heated Purge: (Y/N) N
Init. Calib. Time(s): 08:58 13:00
GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.322	1.326		0.3	30
Chloromethane	0.535	0.535		0	30
Vinyl Chloride	0.528	0.489		-7.39	30
Bromomethane	0.204	0.210		2.94	30
Chloroethane	0.204	0.203		-0.49	30
Tetrahydrofuran	0.360	0.421		16.94	30
Trichlorofluoromethane	1.363	1.392		2.13	30
1,1,2-Trichlorotrifluoroethane	1.036	1.043		0.68	30
Dichlorotetrafluoroethane	1.087	1.084		-0.28	30
tert-Butyl alcohol	1.245	1.248		0.24	30
Heptane	1.688	1.847		9.42	30
1,1-Dichloroethene	0.468	0.469		0.21	30
Acetone	1.381	1.131		-18.1	30
Carbon Disulfide	1.148	1.273		10.89	30
Methyl tert-Butyl Ether	0.633	0.596		-5.84	30
Methylene Chloride	0.435	0.394		-9.43	30
trans-1,2-Dichloroethene	0.503	0.515		2.39	30
1,1-Dichloroethane	1.033	1.068		3.39	30
Cyclohexane	1.137	1.159		1.93	30
2-Butanone	0.708	0.802		13.28	30
Carbon Tetrachloride	0.743	0.823		10.77	30
cis-1,2-Dichloroethene	1.378	1.400		1.6	30
Chloroform	2.072	2.180		5.21	30
1,1,1-Trichloroethane	2.158	2.147		-0.51	30
2,2,4-Trimethylpentane	1.545	1.770		14.56	30
Benzene	0.948	1.029		8.54	30
1,2-Dichloroethane	0.571	0.629		10.16	30
Trichloroethene	0.455	0.465		2.2	30
1,2-Dichloropropane	0.350	0.379		8.29	30
Bromodichloromethane	0.744	0.864		16.13	30
4-Methyl-2-Pentanone	0.912	1.064		16.67	30
Toluene	1.018	1.148		12.77	30
t-1,3-Dichloropropene	0.378	0.435		15.08	30
cis-1,3-Dichloropropene	0.479	0.565		17.95	30
1,1,2-Trichloroethane	0.373	0.413		10.72	30
Dibromochloromethane	0.592	0.708		19.59	30
1,2-Dibromoethane	0.527	0.588		11.57	30
Tetrachloroethene	0.393	0.380		-3.31	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: MATR02

Lab Code: ACE SDG No.: Q2750

Instrument ID: MSVOA_L Calibration Date/Time: 08/04/2025 09:31

Lab File ID: VL042796.D Init. Calib. Date(s): 07/23/2025 07/23/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:58 13:00

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.968	1.046		8.06	30
Ethyl Benzene	1.579	1.821		15.33	30
m/p-Xylene	1.262	1.492		18.23	30
o-Xylene	1.261	1.505		19.35	30
Styrene	0.531	0.621		16.95	30
Bromoform	0.516	0.616		19.38	30
1,1,2,2-Tetrachloroethane	0.810	0.862		6.42	30
2-Chlorotoluene	1.426	1.640		15.01	30
1,3,5-Trimethylbenzene	1.240	1.506		21.45	30
1,2,4-Trimethylbenzene	1.353	1.672		23.58	30
1,3-Dichlorobenzene	0.948	1.085		14.45	30
1,4-Dichlorobenzene	0.928	1.084		16.81	30
1,2-Dichlorobenzene	0.932	1.035		11.05	30
1,2,4-Trichlorobenzene	0.635	0.904		42.36	30
Hexachloro-1,3-Butadiene	0.844	0.836		-0.95	30
1,3-Butadiene	0.589	0.574		-2.55	30
Naphthalene	0.958	1.604		67.43	30
4-Ethyltoluene	1.506	1.803		19.72	30
1-Bromo-4-Fluorobenzene	0.792	0.816		3.03	30
Hexane	1.341	1.417		5.67	30
Allyl Chloride	0.851	0.906		6.46	30
1,4-Dioxane	163.065	165.372		1.41	30
Methyl Methacrylate	0.337	0.391		16.02	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\VL080425\
Data File : VL042796.D
Acq On : 04 Aug 2025 09:31
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 00:59:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	156307	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	426613	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	380017	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	310203	10.307	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	207208	10.026	ppbv	99
3) Chlorodifluoromethane	1.477	51	277069	10.292	ppbv	99
4) Chloromethane	1.532	50	83684	10.009	ppbv	99
5) Vinyl Chloride	1.580	62	76360	9.244	ppbv	96
6) Bromomethane	1.667	94	32753	10.256	ppbv	97
7) Chloroethane	1.703	64	31751	9.948	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	169380	9.966	ppbv	96
9) Propene	1.483	41	100258	10.247	ppbv	99
10) Heptane	4.975	43	288665	10.942	ppbv	99
11) Trichlorofluoromethane	1.878	101	217635	10.216	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.137	101	163050	10.072	ppbv	98
13) Ethanol	1.719	45	7381	9.208	ppbv	100
14) Bromoethene	1.781	108	59854	10.443	ppbv	98
15) Acetone	1.833	43	176712	8.187	ppbv	100
16) 1,3-Butadiene	1.609	39	89788	9.753	ppbv	100
17) tert-Butyl alcohol	2.040	59	195134	10.024	ppbv	99
18) 1,1-Dichloroethene	2.033	96	73240	10.013	ppbv	98
19) Isopropyl Alcohol	1.884	45	113543	9.899	ppbv	98
20) Methylene Chloride	2.062	84	61661	9.066	ppbv	88
21) Allyl Chloride	2.095	41	141580	10.643	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	80528	10.234	ppbv	98
23) Vinyl Acetate	2.460	43	286954	10.966	ppbv	99
24) 1,1-Dichloroethane	2.409	63	166989	10.340	ppbv	99
25) Ethyl Acetate	2.833	43	517370	10.829	ppbv	99
26) Hexane	2.826	57	221546	10.571	ppbv	98
27) Carbon Disulfide	2.150	76	199042	11.094	ppbv	96
28) Methyl tert-Butyl Ether	2.438	73	93108	9.404	ppbv	99
29) Chloroform	2.846	83	340691	10.520	ppbv	98
30) Cyclohexane	3.855	84	181209	10.195	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	218880	10.164	ppbv	97
32) 1,1,1-Trichloroethane	3.367	97	335591	9.948	ppbv	99
34) 2-Butanone	2.554	43	342346	11.329	ppbv	99
35) Carbon Tetrachloride	3.762	117	351173	11.082	ppbv	98
36) Benzene	3.655	78	439144	10.861	ppbv	98
37) 1,2-Dichloroethane	3.215	62	268448	11.022	ppbv	100
38) Trichloroethene	4.548	130	198489	10.219	ppbv	96
39) 1,2-Dichloropropane	4.309	63	161604	10.828	ppbv	97
40) 1,4-Dioxane	4.577	88	70550	10.142	ppbv #	98
41) Tetrahydrofuran	3.053	42	179539	11.676	ppbv	99
42) Bromodichloromethane	4.487	83	368522	11.618	ppbv	99
43) Methyl Methacrylate	4.875	69	166622	11.594	ppbv	98
44) 2,2,4-Trimethylpentane	4.639	57	754946	11.456	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	185713	11.524	ppbv	96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042796.D
Acq On : 04 Aug 2025 09:31
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 00:59:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	240949	11.799	ppbv		96
47) 1,1,2-Trichloroethane	6.577	97	176245	11.078	ppbv		96
48) Dibromochloromethane	7.387	129	301910	11.954	ppbv		98
49) Bromoform	9.481	173	262767	11.932	ppbv		98
50) 4-Methyl-2-Pentanone	5.746	43	453959	11.662	ppbv		99
51) 2-Hexanone	7.432	43	360580	12.258	ppbv	#	99
52) Tetrachloroethene	8.225	164	162318	9.686	ppbv		97
53) Toluene	6.930	91	489672	11.278	ppbv		100
54) 1,2-Dibromoethane	7.649	107	250956	11.165	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.924	131	226803	11.479	ppbv		99
57) Chlorobenzene	8.921	112	397515	10.808	ppbv		98
58) Ethyl Benzene	9.354	91	692150	11.533	ppbv		99
59) m/p-Xylene	9.552	91	1134244m	23.649	ppbv		
60) o-Xylene	9.963	91	571988	11.935	ppbv		98
61) Styrene	9.869	104	235848	11.699	ppbv		99
62) Isopropylbenzene	10.539	105	813285	11.505	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.963	83	327594	10.647	ppbv		100
64) n-propylbenzene	10.989	120	212922	11.553	ppbv		97
65) tert-Butylbenzene	11.533	119	730489	11.633	ppbv		100
66) Benzyl Chloride	11.614	91	70588	13.694	ppbv		98
67) sec-Butylbenzene	11.769	105	1015003	11.365	ppbv		99
69) p-Isopropyltoluene	11.924	119	875506	12.023	ppbv		99
70) n-Butylbenzene	12.280	91	882533	12.546	ppbv		100
71) 2-Chlorotoluene	10.902	91	623268	11.499	ppbv		99
72) 4-Ethyltoluene	11.125	105	685255	11.973	ppbv		100
73) 1,3,5-Trimethylbenzene	11.203	105	572173	12.142	ppbv		99
74) 1,2,4-Trimethylbenzene	11.536	105	635314	12.358	ppbv		98
75) 1,3-Dichlorobenzene	11.607	146	412343	11.441	ppbv		99
76) 1,4-Dichlorobenzene	11.672	146	411896	11.679	ppbv		99
77) 1,2-Dichlorobenzene	11.947	146	393333	11.104	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	317563	9.905	ppbv		99
79) Naphthalene	13.514	128	609718	10.889	ppbv		99
80) Naphthalene,2-methyl-	14.455	142	237582	8.684	ppbv		98
81) 1,2,4-Trichlorobenzene	13.439	180	343523	10.915	ppbv		99

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

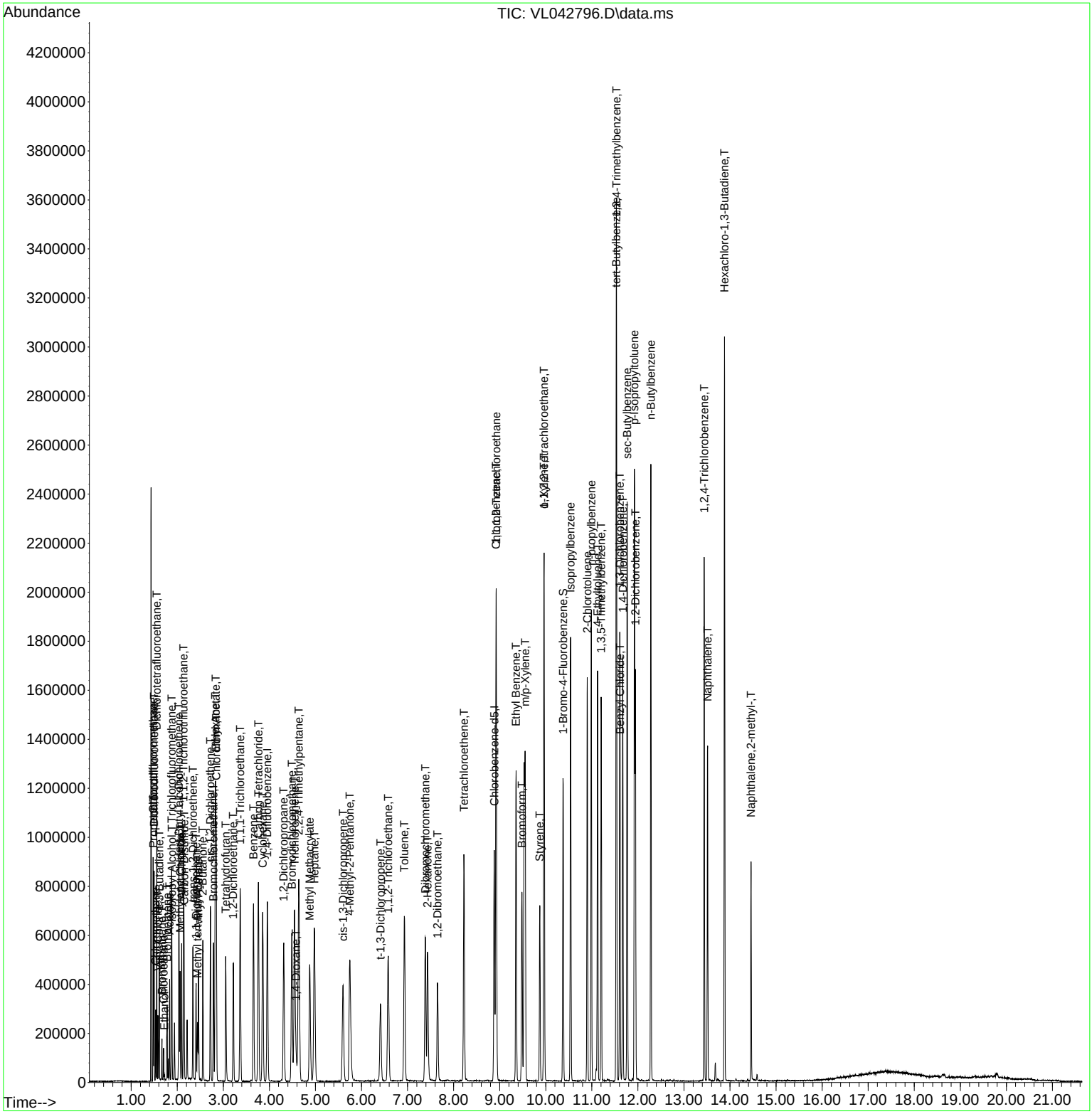
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042796.D
Acq On : 04 Aug 2025 09:31
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

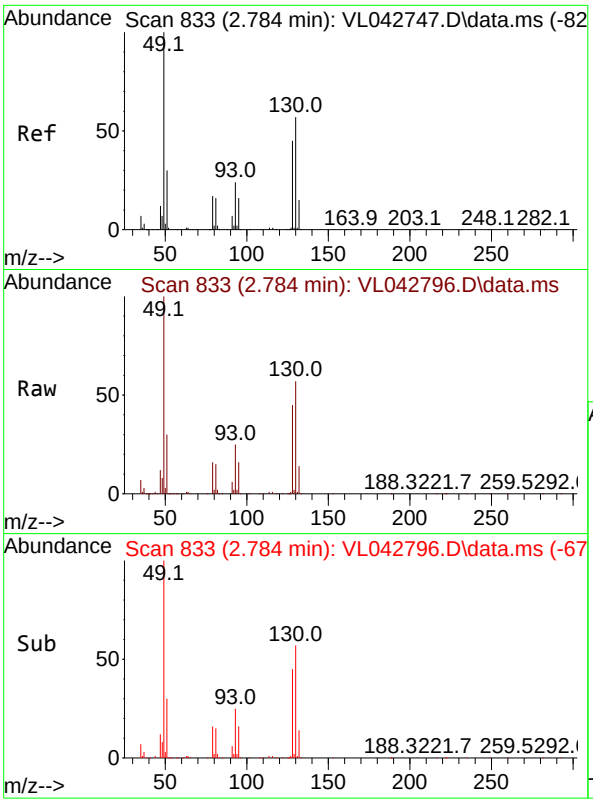
Quant Time: Aug 05 00:59:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

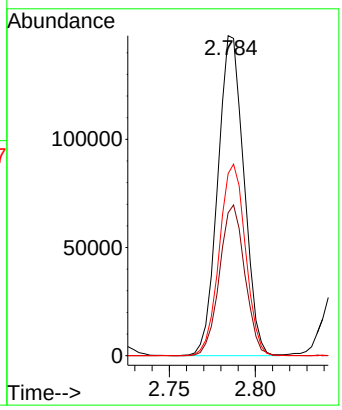




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 49 Resp: 15630

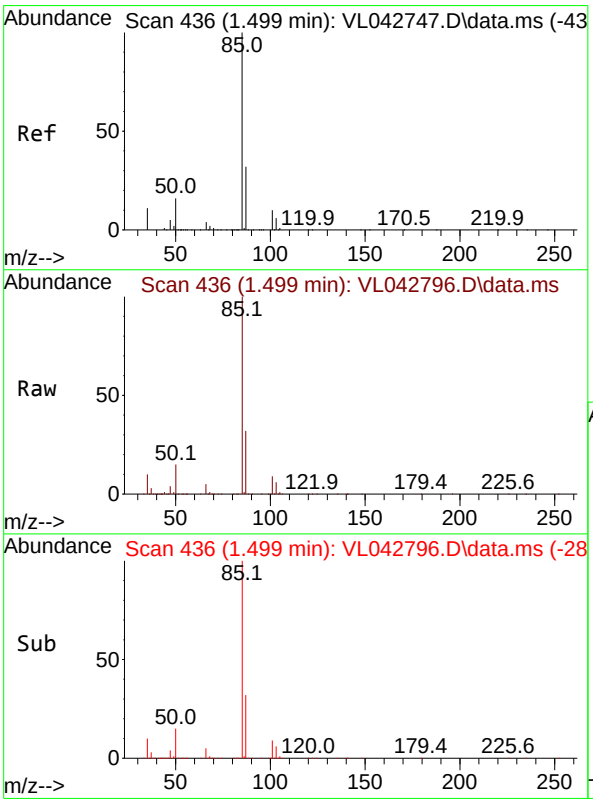
Ion	Ratio	Lower	Upper
49	100		
128	45.7	23.6	71.0
130	59.8	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

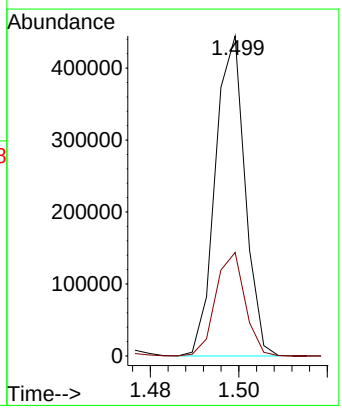
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

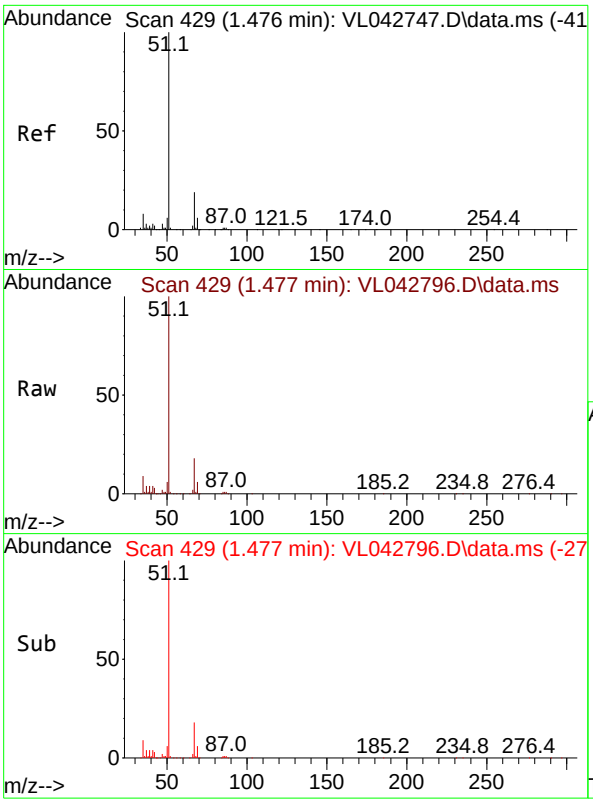


#2
Dichlorodifluoromethane
Concen: 10.026 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 85 Resp: 207208

Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.4	38.2

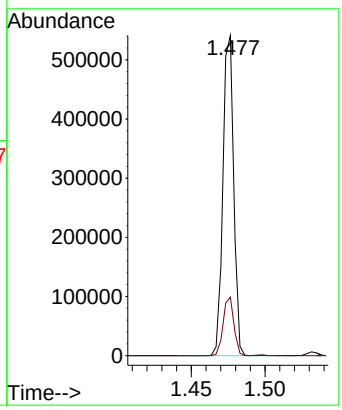




#3
Chlorodifluoromethane
Concen: 10.292 ppbv
RT: 1.477 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 51 Resp: 27706

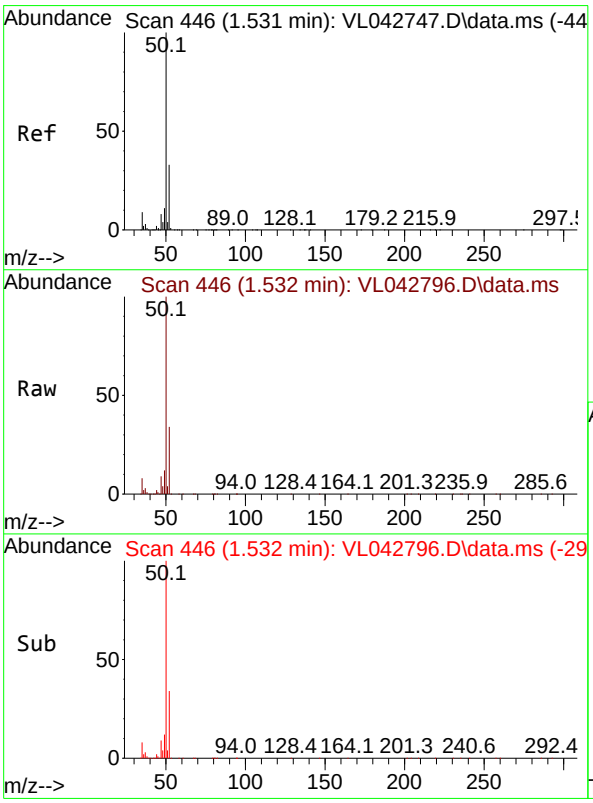
Ion	Ratio	Lower	Upper
51	100		
67	18.3	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

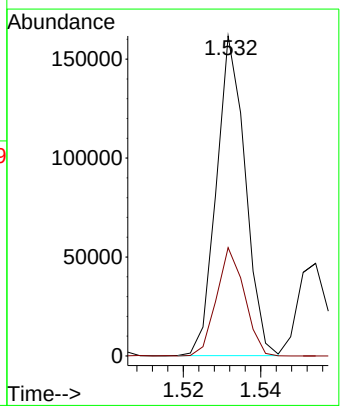
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

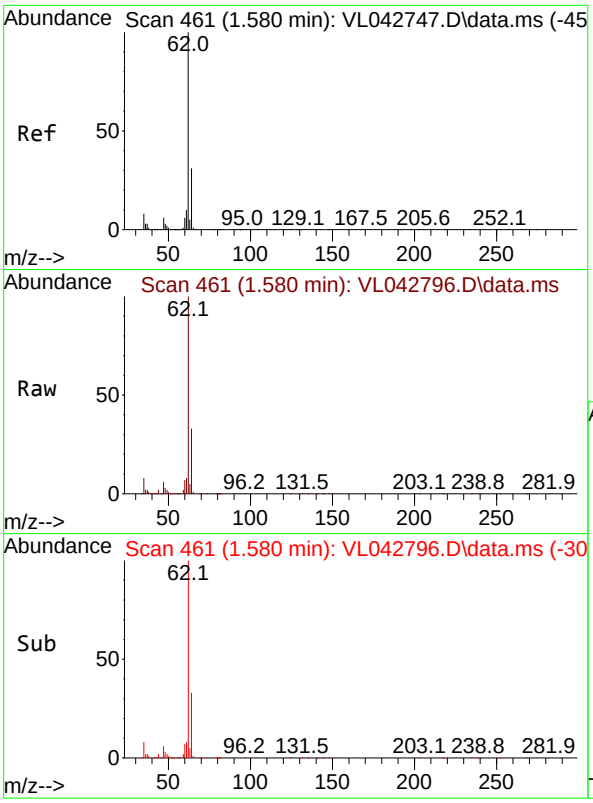


#4
Chloromethane
Concen: 10.009 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 50 Resp: 83684

Ion	Ratio	Lower	Upper
50	100		
52	33.9	26.6	40.0

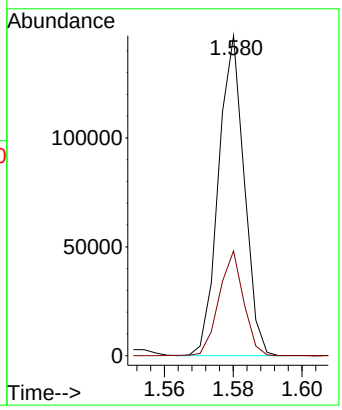




#5
Vinyl Chloride
Concen: 9.244 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 62 Resp: 7636

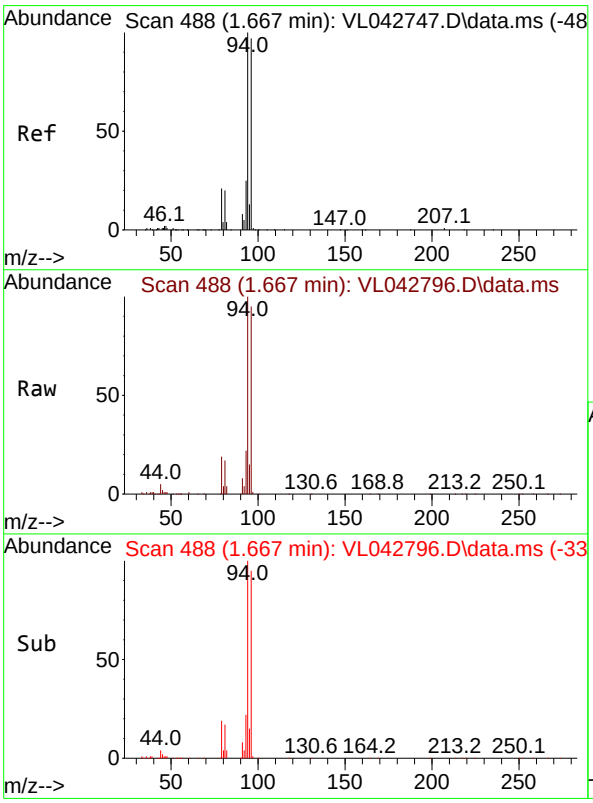
Ion	Ratio	Lower	Upper
62	100		
64	32.7	24.5	36.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

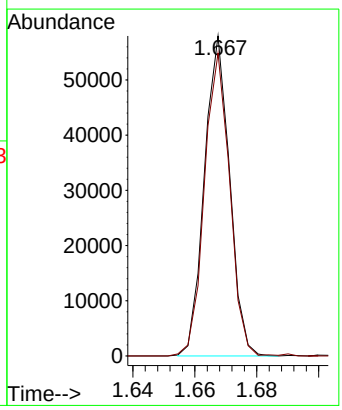
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

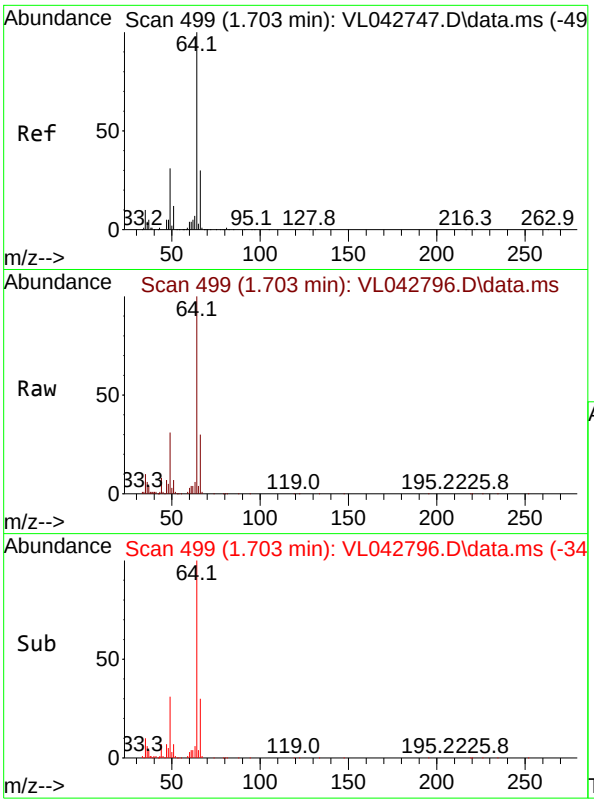


#6
Bromomethane
Concen: 10.256 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 94 Resp: 32753

Ion	Ratio	Lower	Upper
94	100		
96	94.5	77.6	116.4

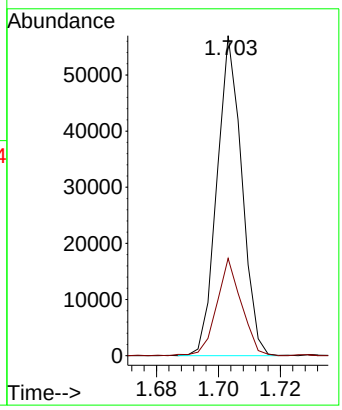




#7
Chloroethane
Concen: 9.948 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 64 Resp: 3175

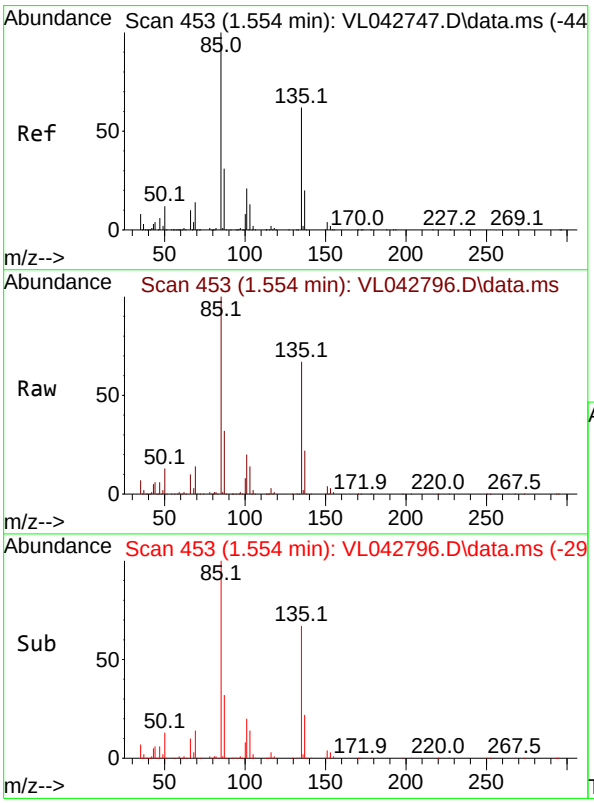
Ion	Ratio	Lower	Upper
64	100		
66	30.4	24.1	36.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

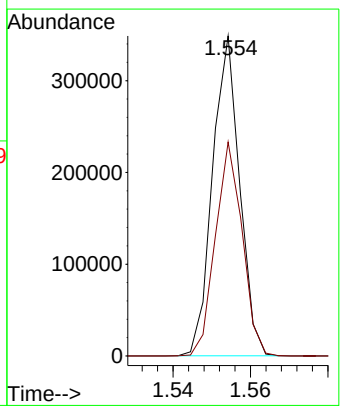
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

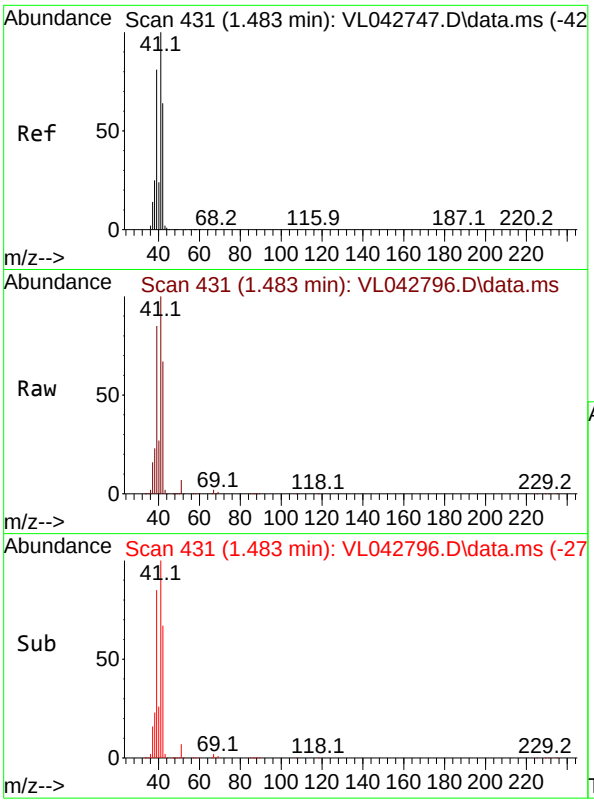


#8
Dichlorotetrafluoroethane
Concen: 9.966 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 85 Resp: 169380

Ion	Ratio	Lower	Upper
85	100		
135	66.3	50.6	76.0

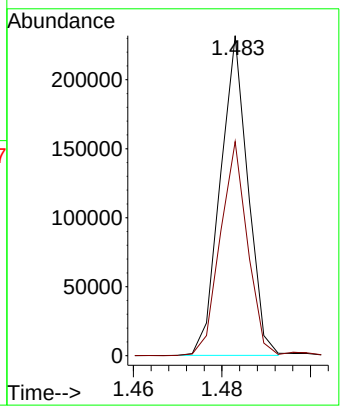




#9
Propene
Concen: 10.247 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 41 Resp: 10025

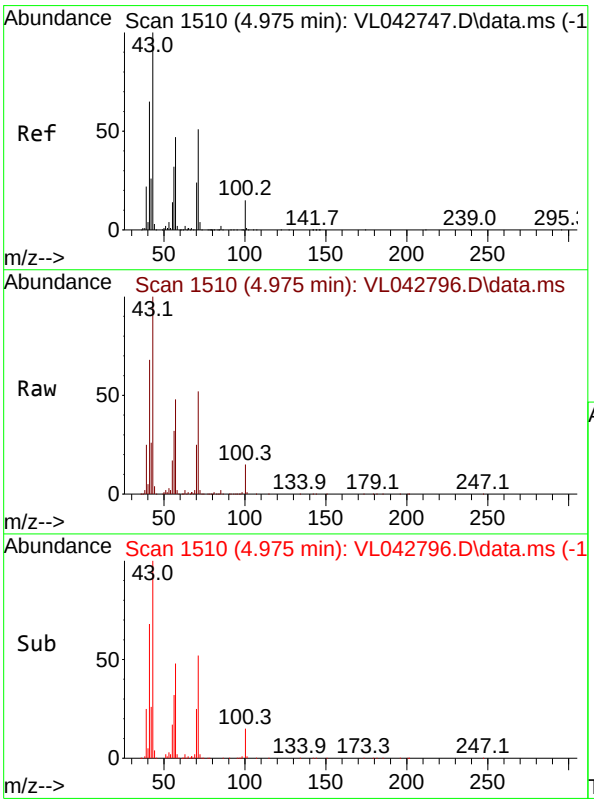
Ion	Ratio	Lower	Upper
41	100		
42	67.5	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

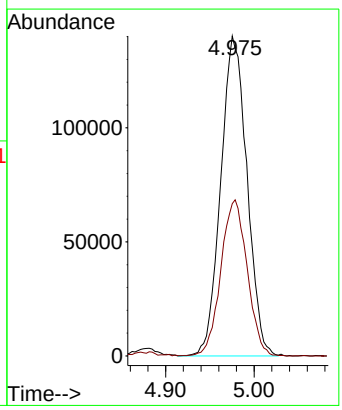
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

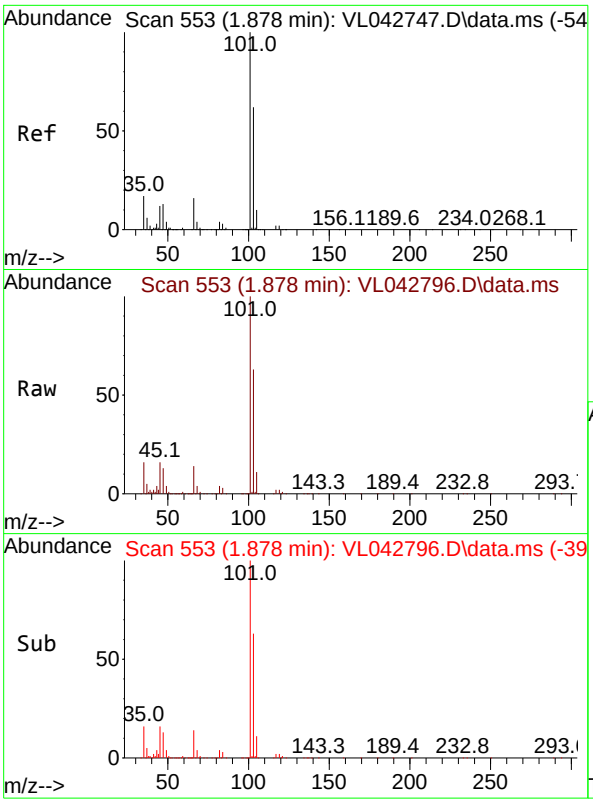


#10
Heptane
Concen: 10.942 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 43 Resp: 288665

Ion	Ratio	Lower	Upper
43	100		
57	49.0	39.9	59.9

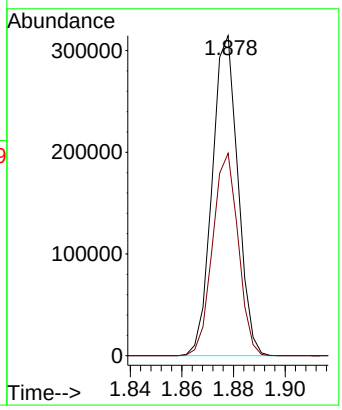




#11
Trichlorofluoromethane
Concen: 10.216 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:101 Resp: 21763

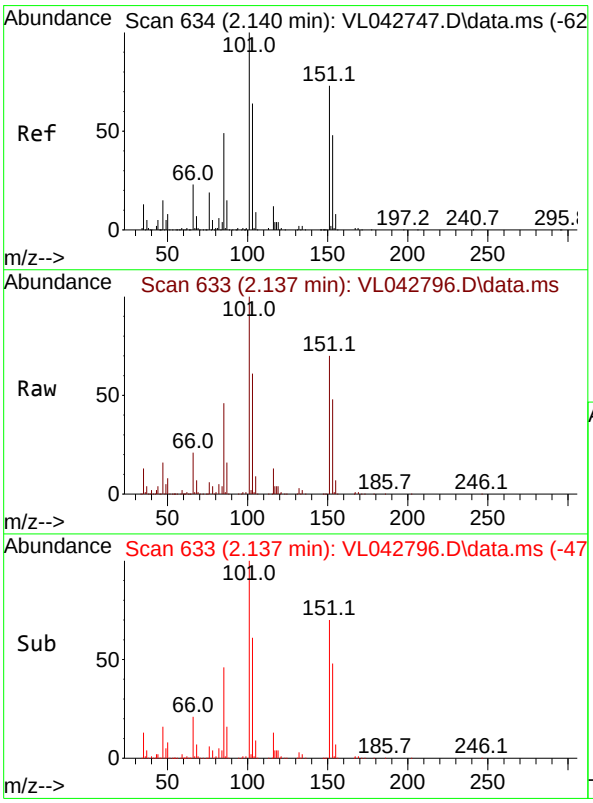
Ion	Ratio	Lower	Upper
101	100		
103	63.2	49.6	74.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

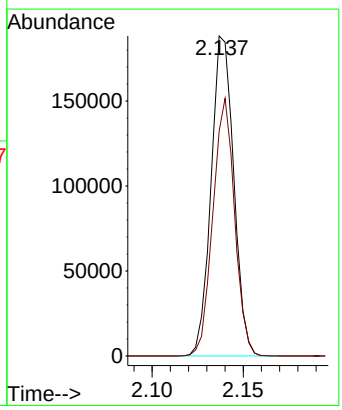
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

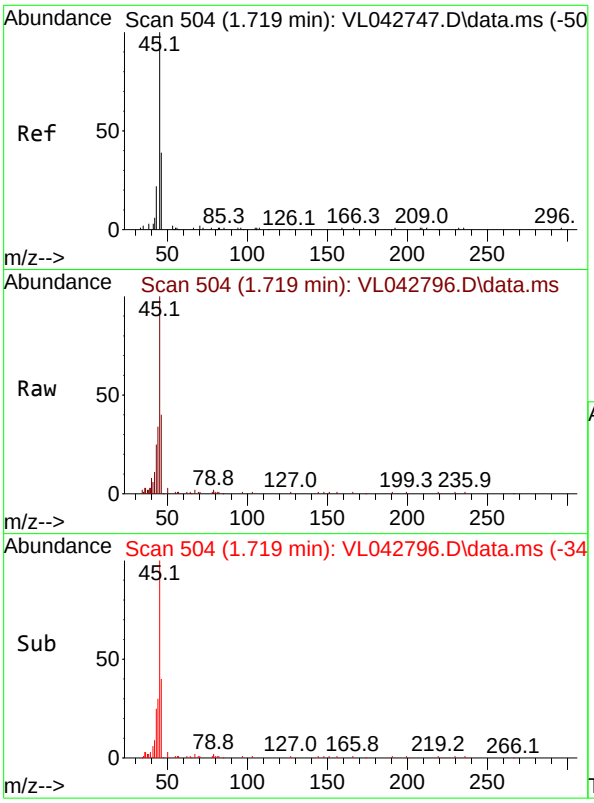


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.072 ppbv
RT: 2.137 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:101 Resp: 163050

Ion	Ratio	Lower	Upper
101	100		
151	77.1	60.5	90.7

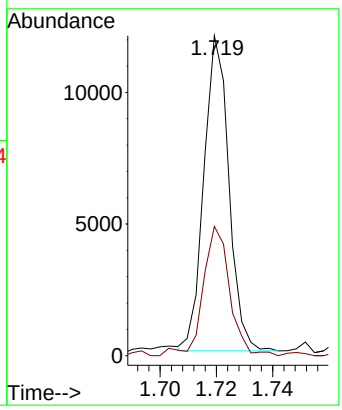




#13
Ethanol
Concen: 9.208 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 45 Resp: 738

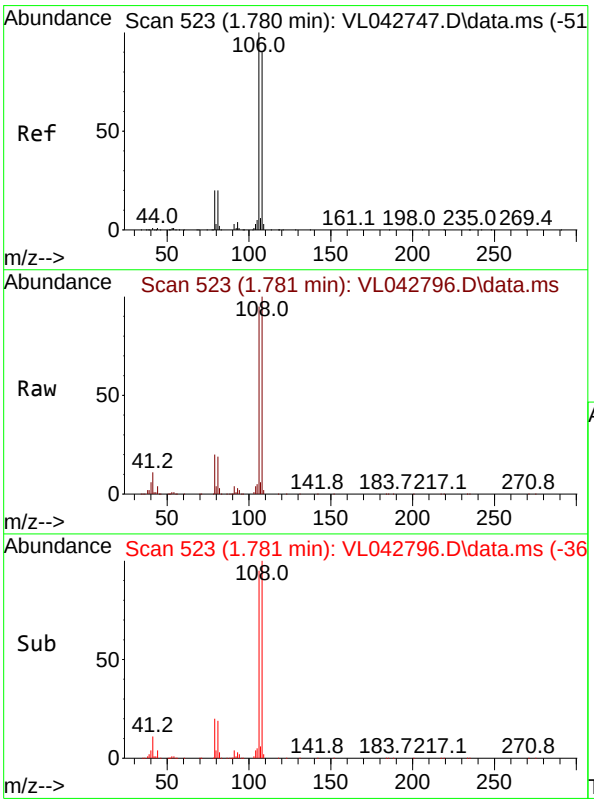
Ion	Ratio	Lower	Upper
45	100		
46	44.4	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

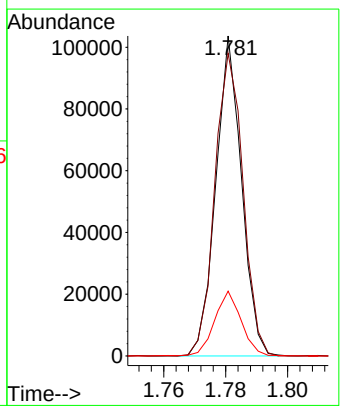
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

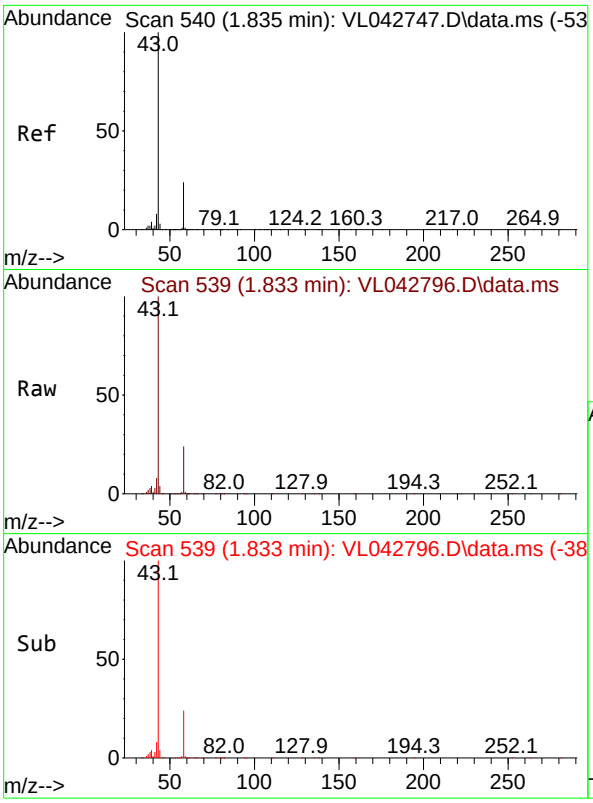


#14
Bromoethene
Concen: 10.443 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:108 Resp: 59854

Ion	Ratio	Lower	Upper
108	100		
106	103.4	84.7	127.1
79	21.0	17.4	26.2

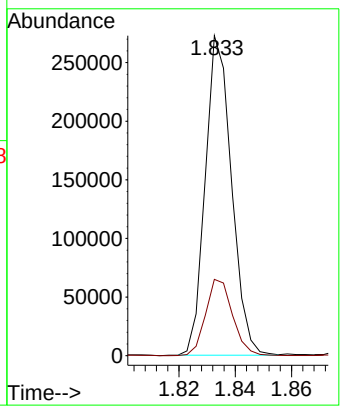




#15
Acetone
Concen: 8.187 ppbv
RT: 1.833 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 43 Resp: 17671

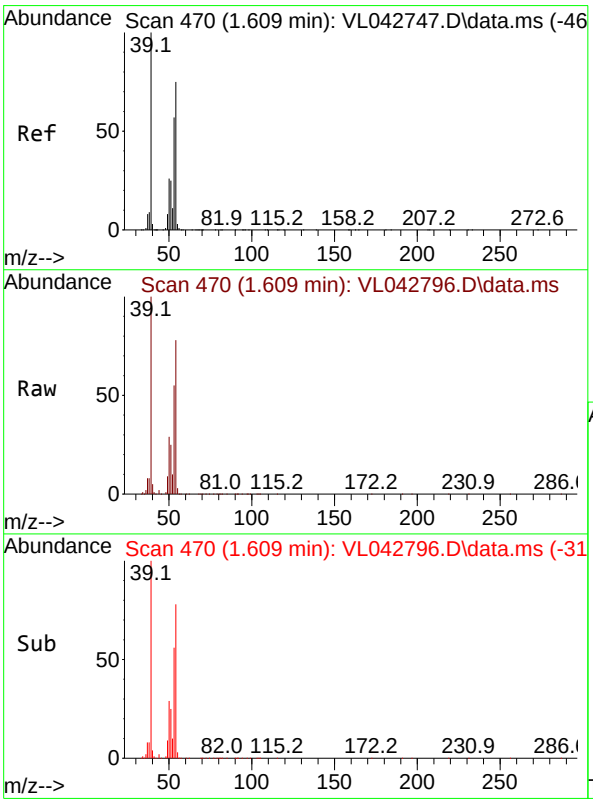
Ion	Ratio	Lower	Upper
43	100		
58	24.8	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

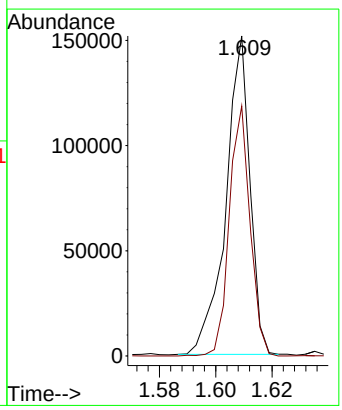
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

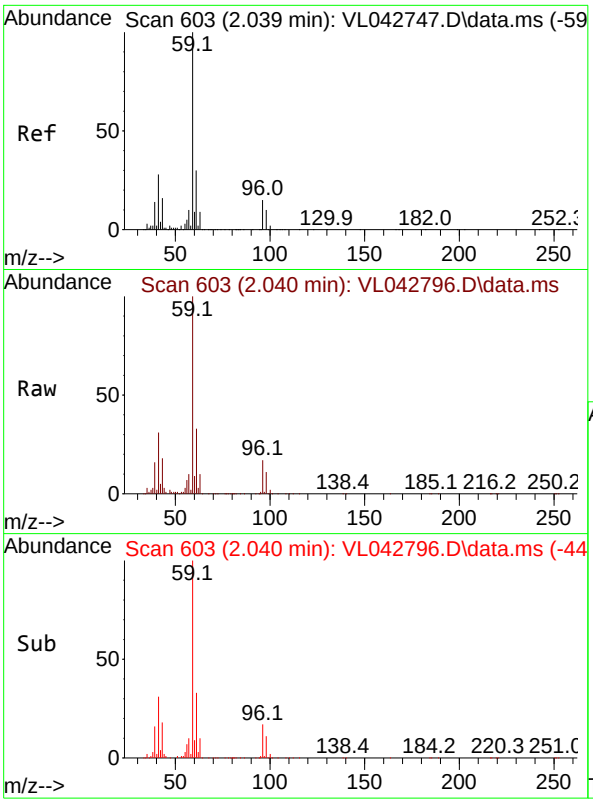


#16
1,3-Butadiene
Concen: 9.753 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 39 Resp: 89788

Ion	Ratio	Lower	Upper
39	100		
54	67.8	54.5	81.7

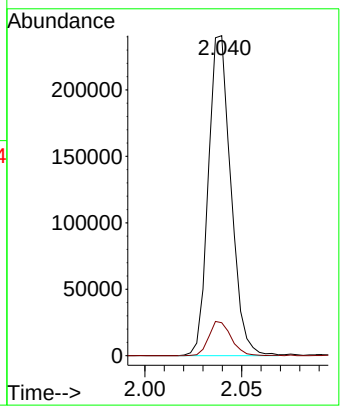




#17
tert-Butyl alcohol
Concen: 10.024 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 59 Resp: 19513

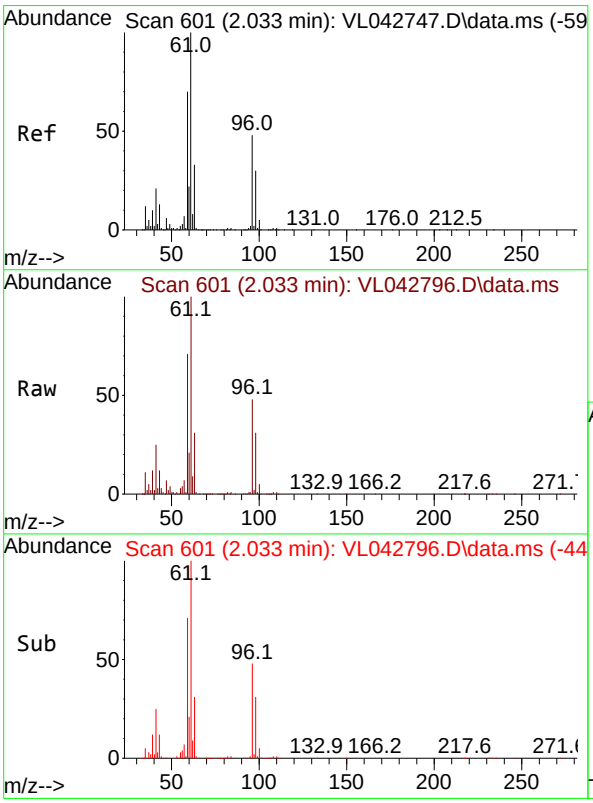
Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

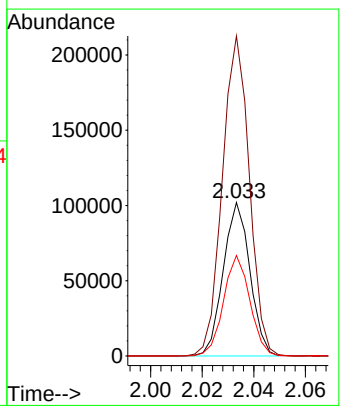
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

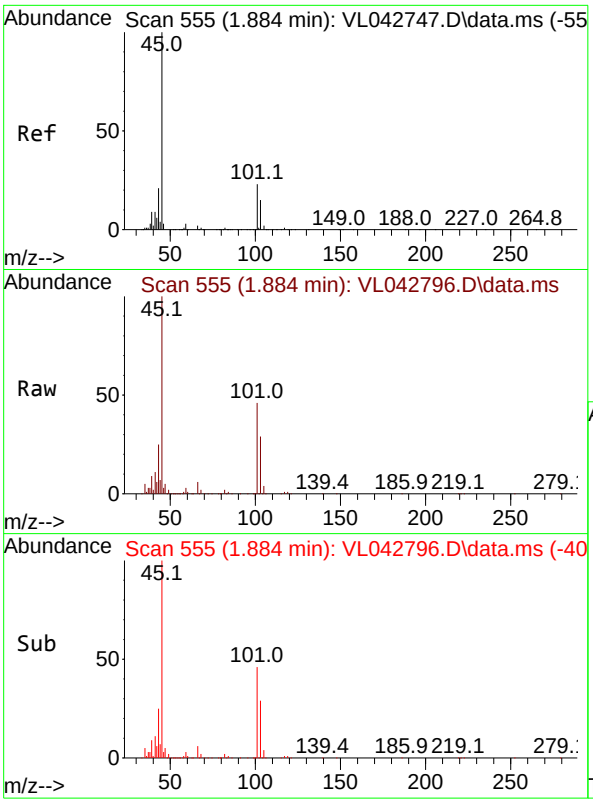


#18
1,1-Dichloroethene
Concen: 10.013 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 96 Resp: 73240

Ion	Ratio	Lower	Upper
96	100		
61	208.7	165.8	248.6
98	65.5	49.9	74.9

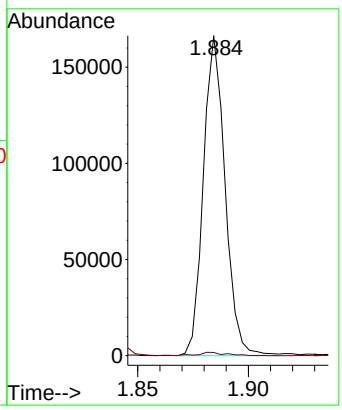




#19
Isopropyl Alcohol
Concen: 9.899 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 45 Resp: 11354

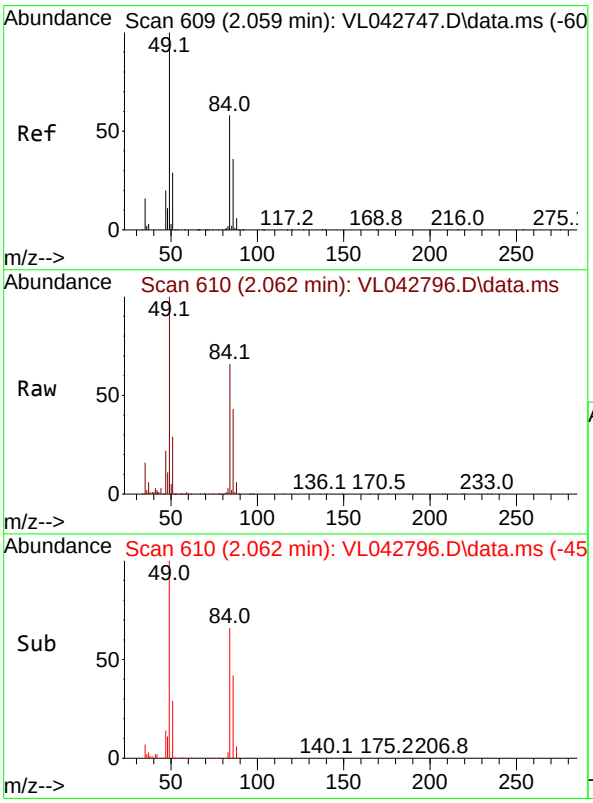
Ion	Ratio	Lower	Upper
45	100		
58	38.5	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

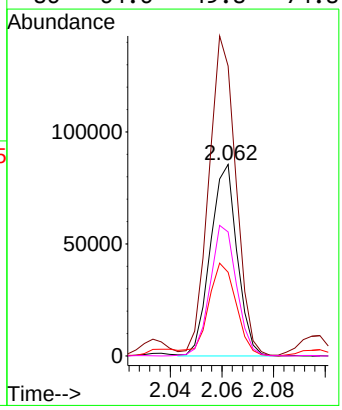
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

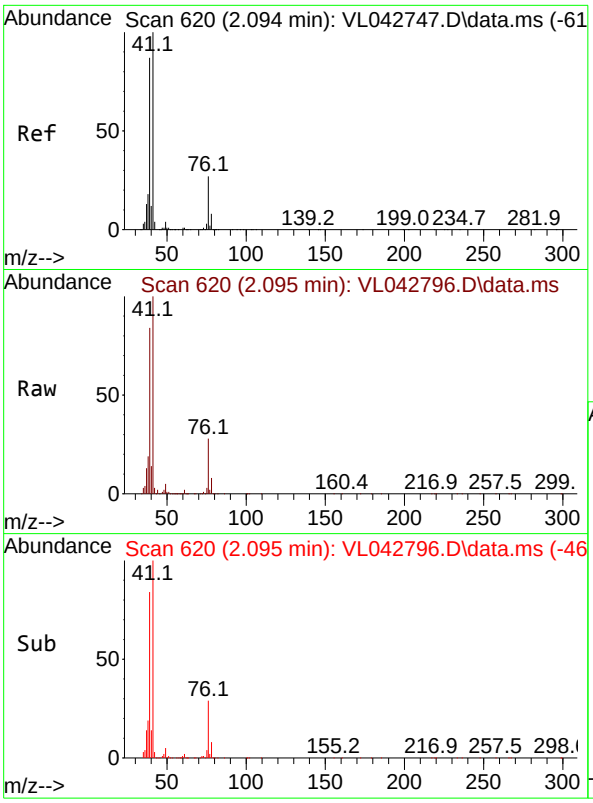


#20
Methylene Chloride
Concen: 9.066 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 84 Resp: 61661

Ion	Ratio	Lower	Upper
84	100		
49	151.0	138.6	208.0
51	43.7	40.6	61.0
86	64.6	49.8	74.8

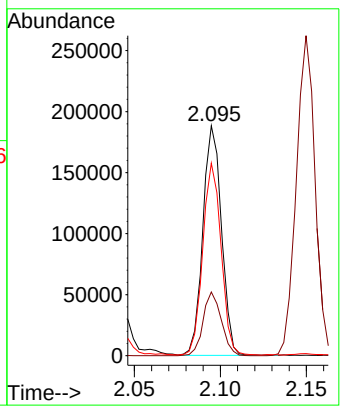




#21
Allyl Chloride
Concen: 10.643 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 41 Resp: 14158

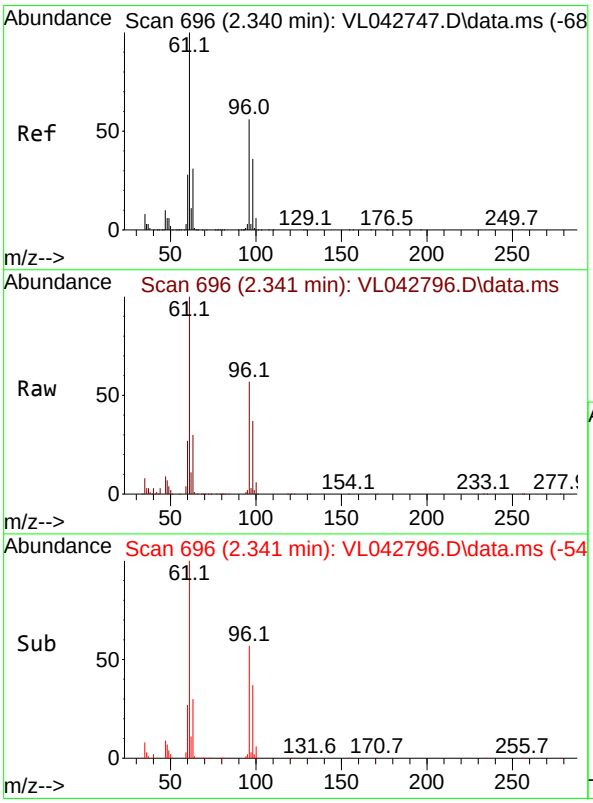
Ion	Ratio	Lower	Upper
41	100		
76	27.2	21.1	31.7
39	82.3	68.3	102.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

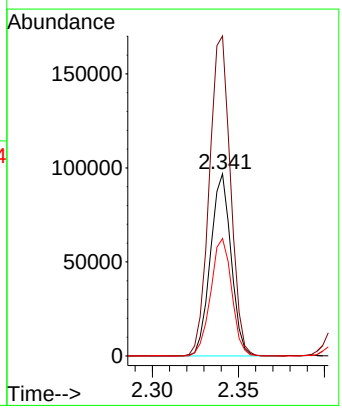
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

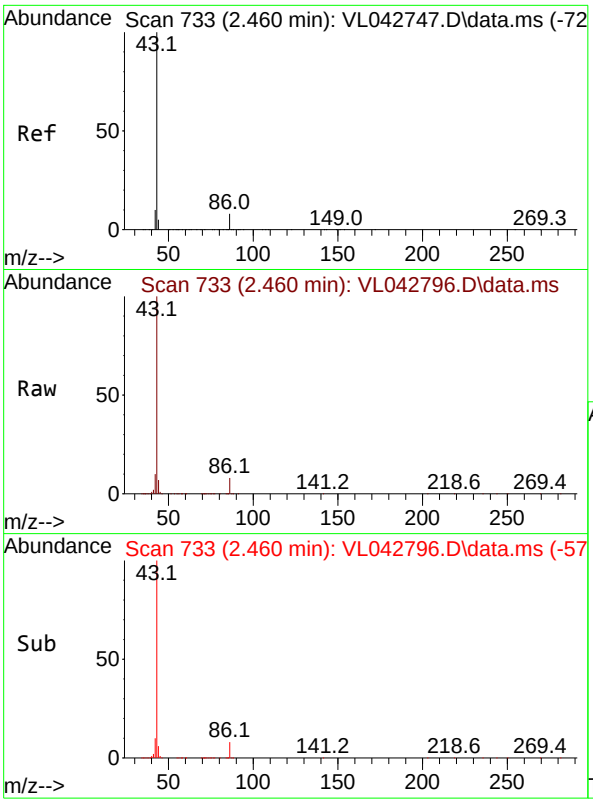


#22
trans-1,2-Dichloroethene
Concen: 10.234 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 96 Resp: 80528

Ion	Ratio	Lower	Upper
96	100		
61	175.7	142.3	213.5
98	64.5	50.6	76.0

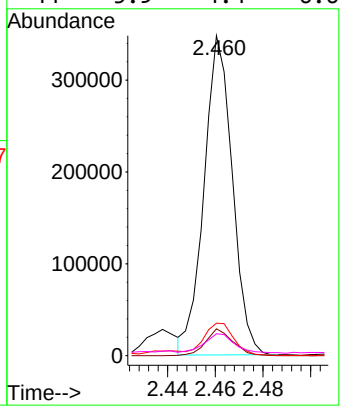




#23
Vinyl Acetate
Concen: 10.966 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 43 Resp: 28695

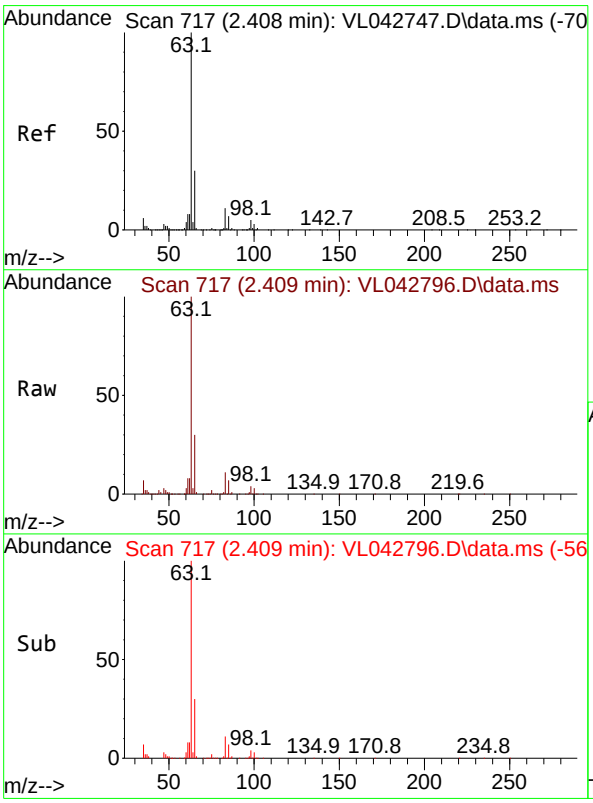
Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.1	9.1
42	10.1	7.8	11.8
44	5.9	4.4	6.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

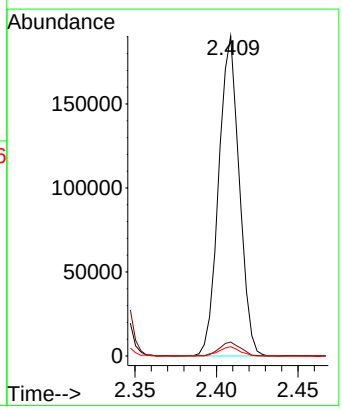
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

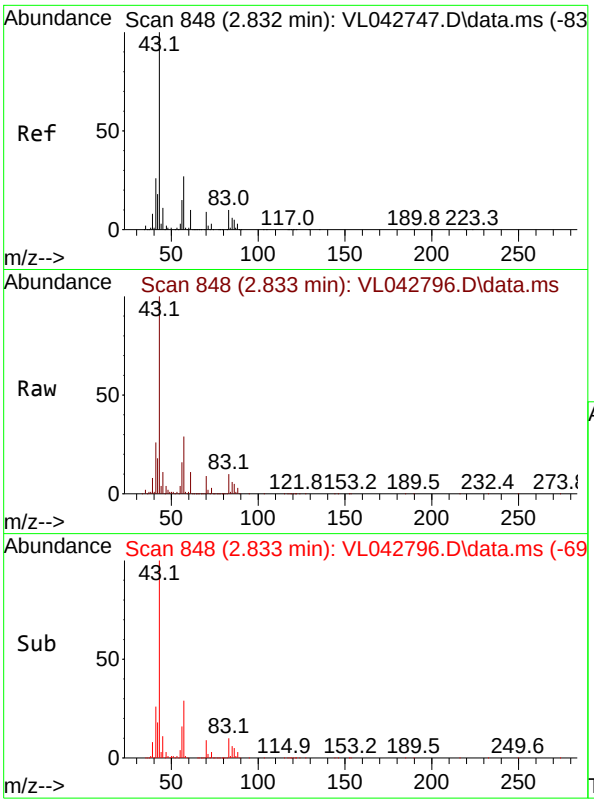


#24
1,1-Dichloroethane
Concen: 10.340 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 63 Resp: 166989

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.5	7.4
100	2.9	1.6	4.8

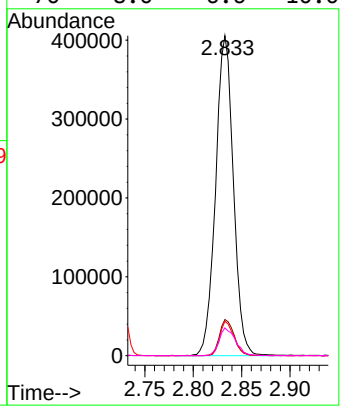




#25
Ethyl Acetate
Concen: 10.829 ppbv
RT: 2.833 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 43 Resp: 51737

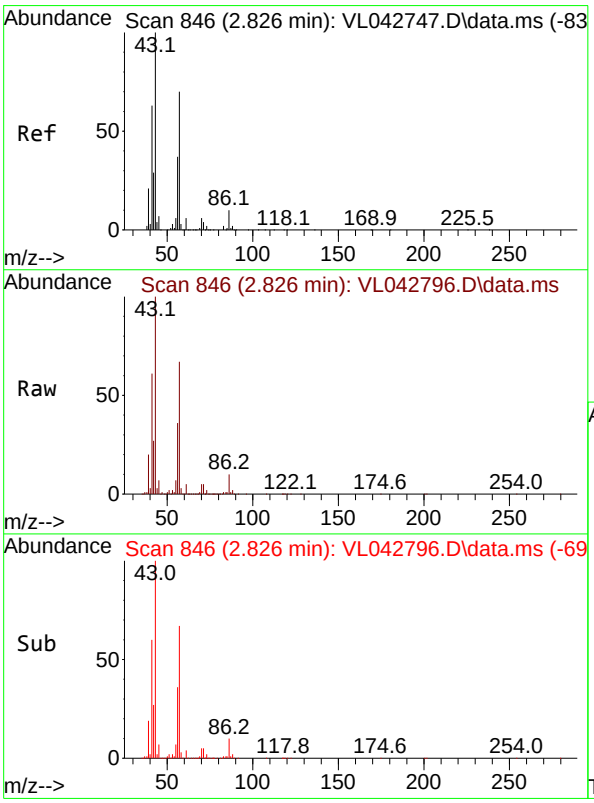
Ion	Ratio	Lower	Upper
43	100		
45	9.4	7.8	11.6
61	8.8	6.7	10.1
70	8.0	6.6	10.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

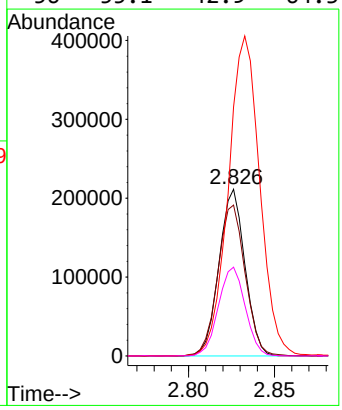
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

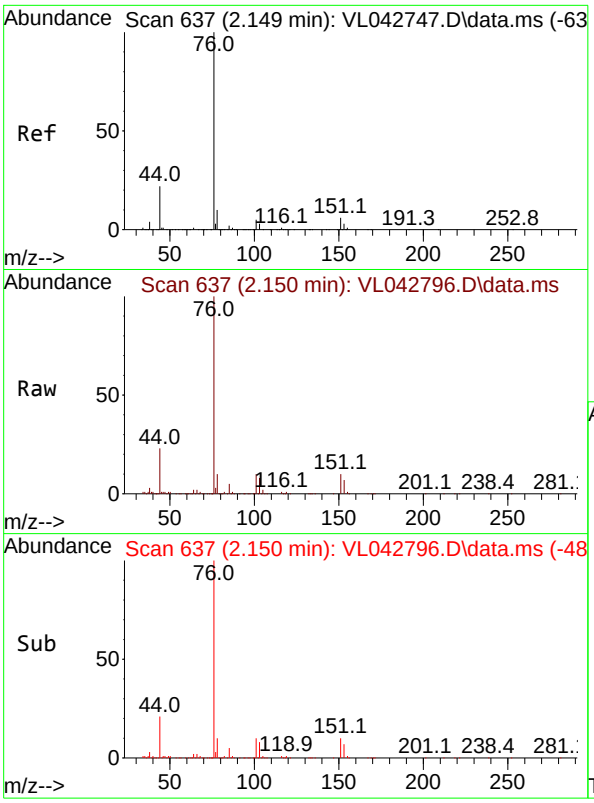


#26
Hexane
Concen: 10.571 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 57 Resp: 221546

Ion	Ratio	Lower	Upper
57	100		
41	95.9	75.4	113.2
43	233.7	185.0	277.6
56	55.1	42.9	64.3

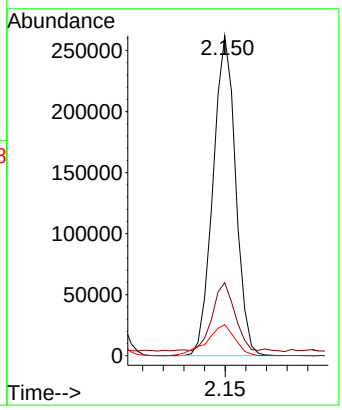




#27
Carbon Disulfide
Concen: 11.094 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 76 Resp: 19904

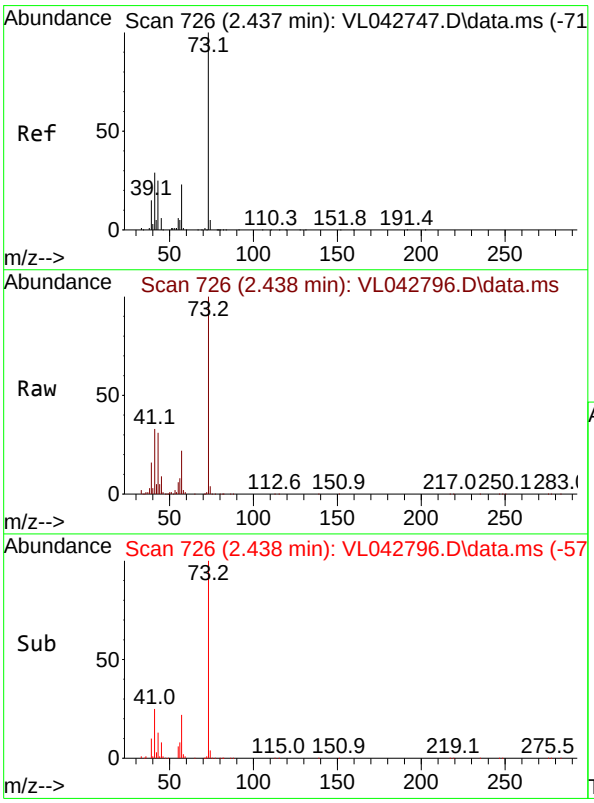
Ion	Ratio	Lower	Upper
76	100		
44	21.6	19.3	28.9
78	12.1	9.9	14.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

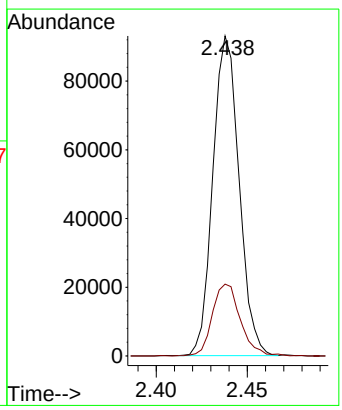
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

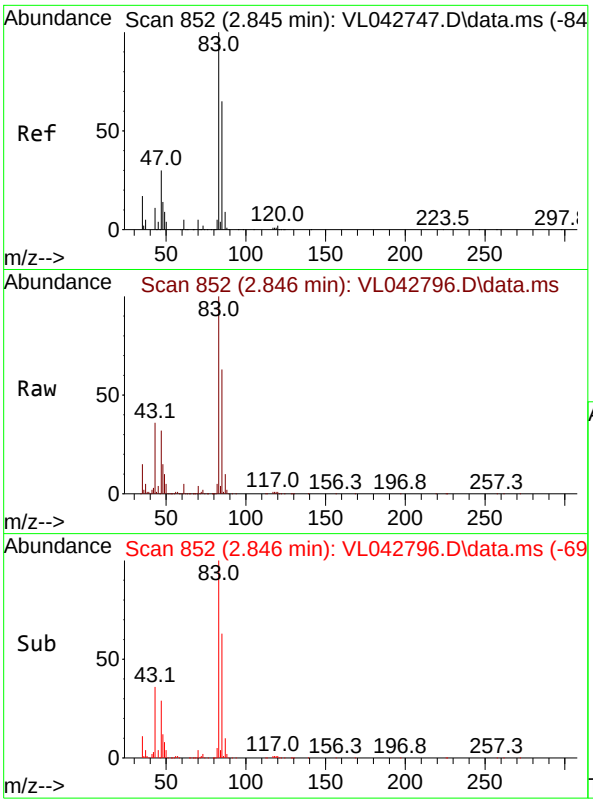


#28
Methyl tert-Butyl Ether
Concen: 9.404 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 73 Resp: 93108

Ion	Ratio	Lower	Upper
73	100		
57	24.1	19.8	29.8

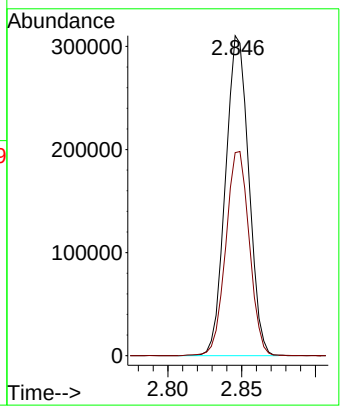




#29
Chloroform
Concen: 10.520 ppbv
RT: 2.846 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 83 Resp: 34069

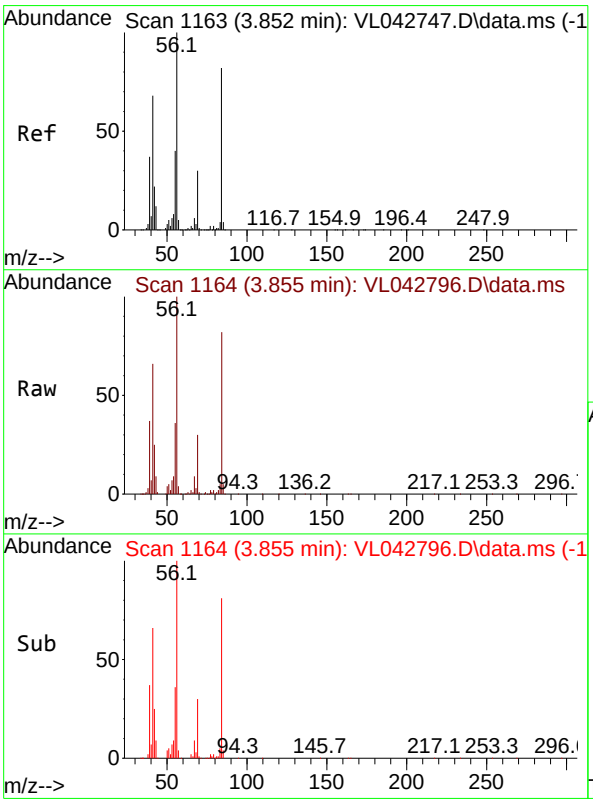
Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.2	78.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

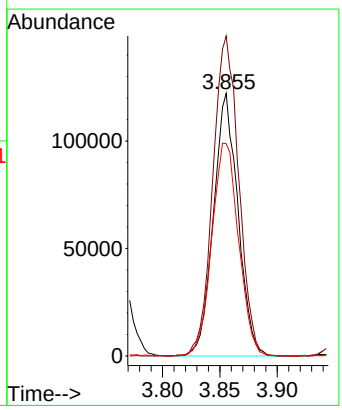
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

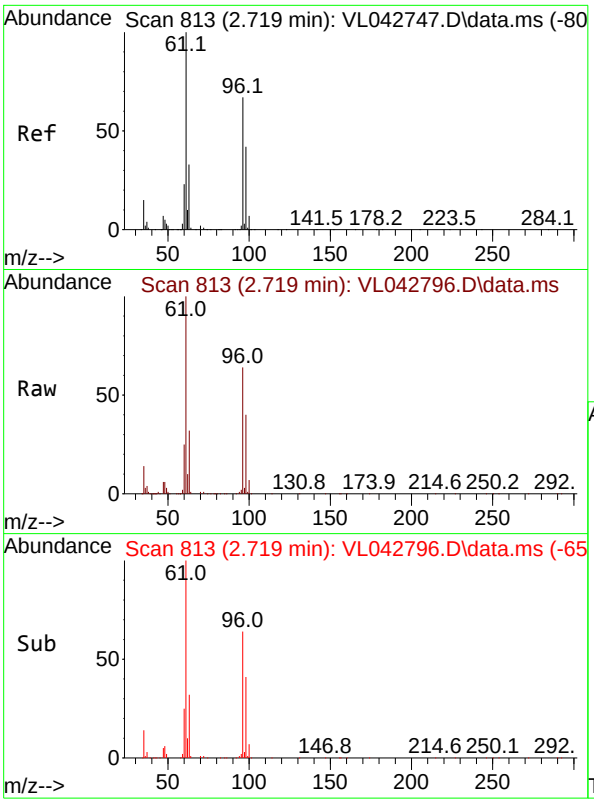


#30
Cyclohexane
Concen: 10.195 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 84 Resp: 181209

Ion	Ratio	Lower	Upper
84	100		
56	128.6	97.5	146.3
41	88.5	67.2	100.8

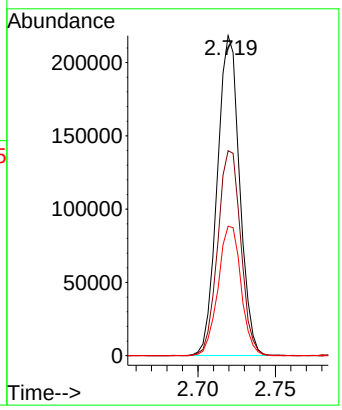




#31
cis-1,2-Dichloroethene
Concen: 10.164 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 61 Resp: 21888

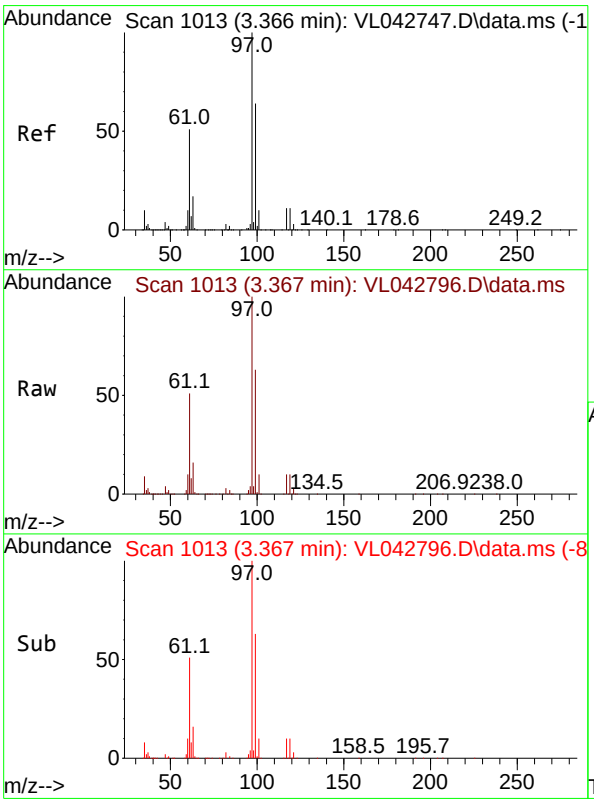
Ion	Ratio	Lower	Upper
61	100		
96	64.1	53.5	80.3
98	40.5	33.6	50.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

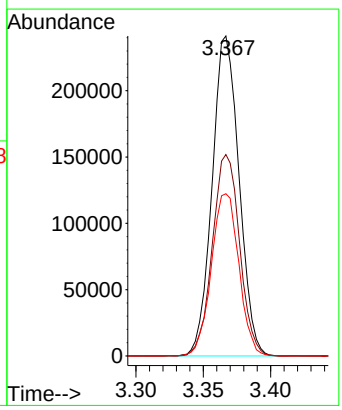
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

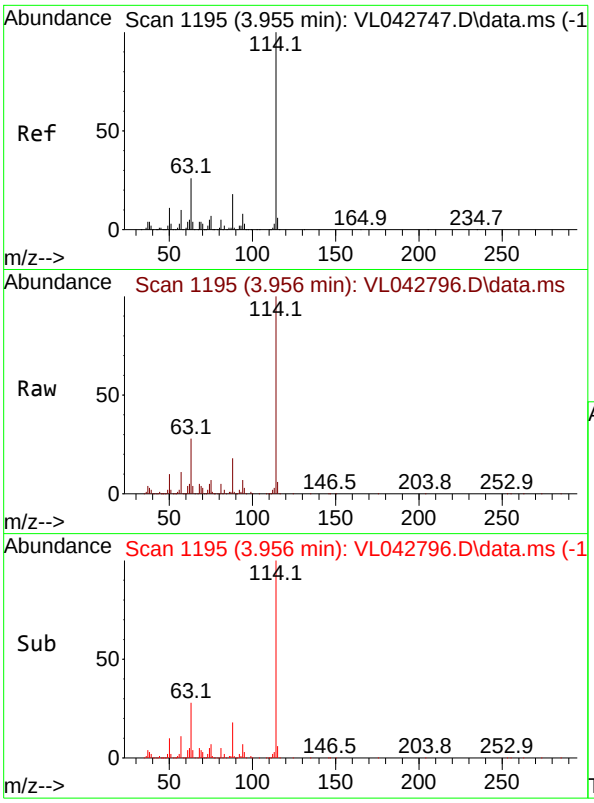


#32
1,1,1-Trichloroethane
Concen: 9.948 ppbv
RT: 3.367 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 97 Resp: 335591

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.0	76.6
61	51.9	40.9	61.3

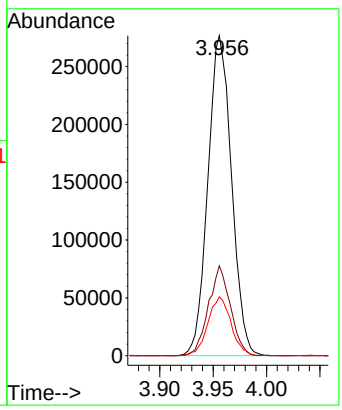




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:114 Resp: 42661

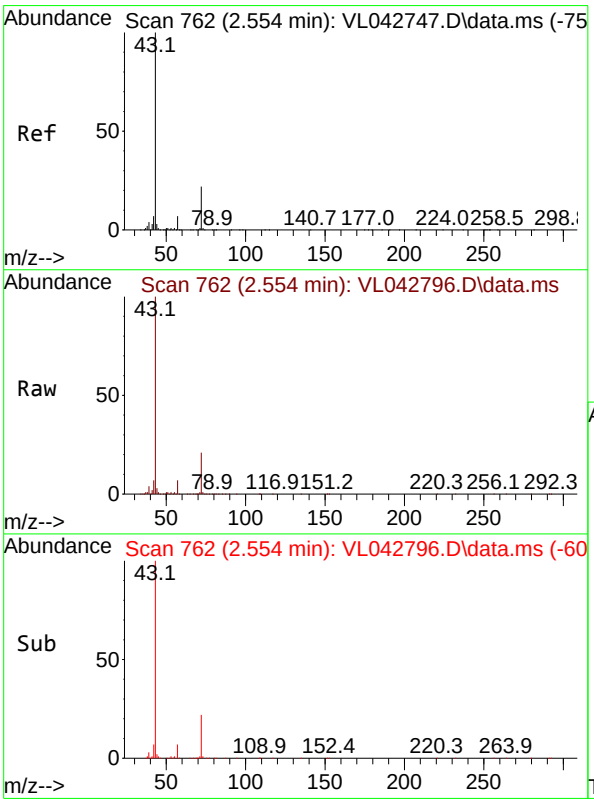
Ion	Ratio	Lower	Upper
114	100		
63	26.1	20.5	30.7
88	18.0	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

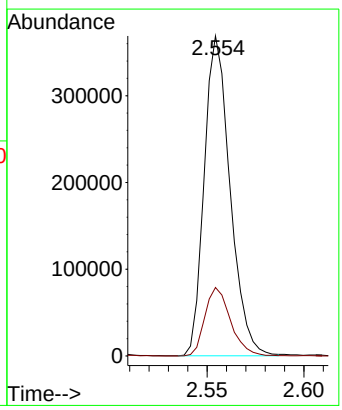
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

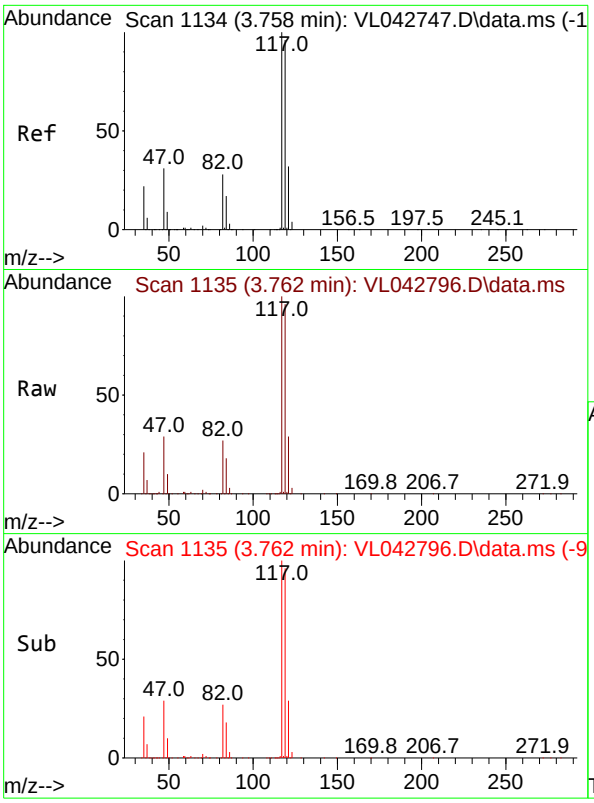


#34
2-Butanone
Concen: 11.329 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 43 Resp: 342346

Ion	Ratio	Lower	Upper
43	100		
72	21.3	17.4	26.0

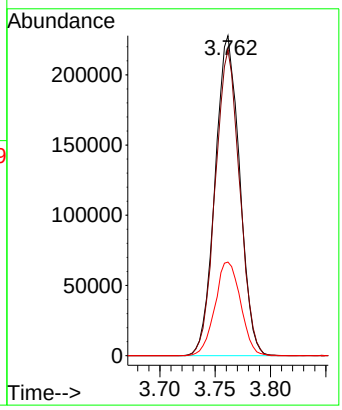




#35
Carbon Tetrachloride
Concen: 11.082 ppbv
RT: 3.762 min Scan# 1
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:117 Resp: 35117

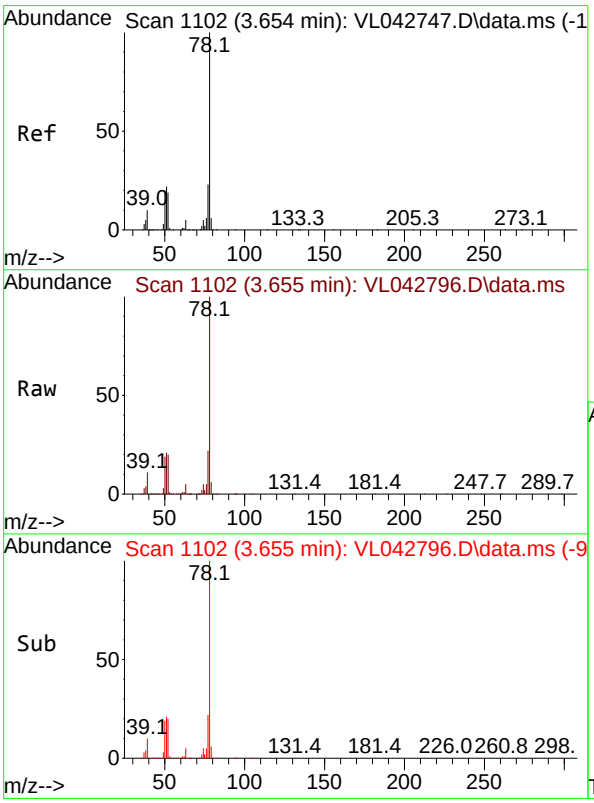
Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.1	115.7
121	29.2	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

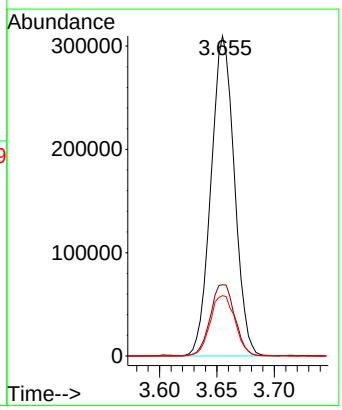
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

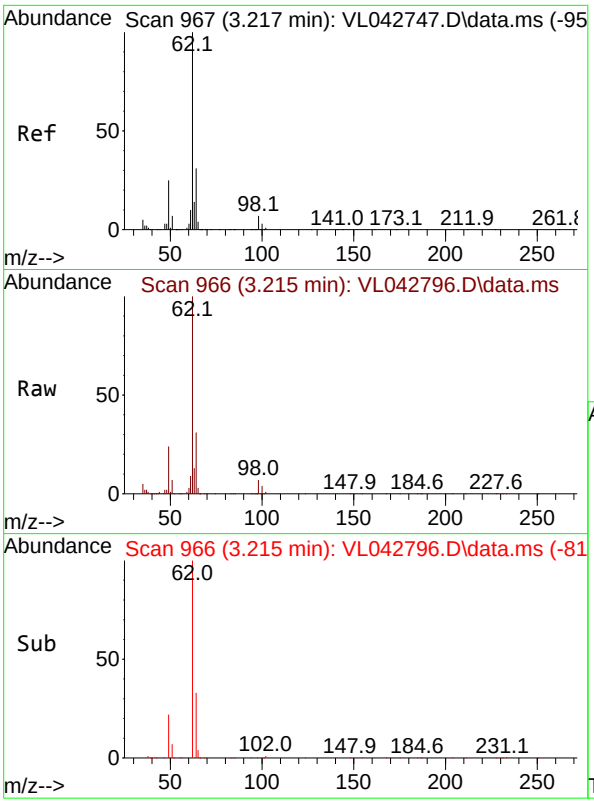


#36
Benzene
Concen: 10.861 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 78 Resp: 439144

Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.5	27.7
50	18.8	16.2	24.2

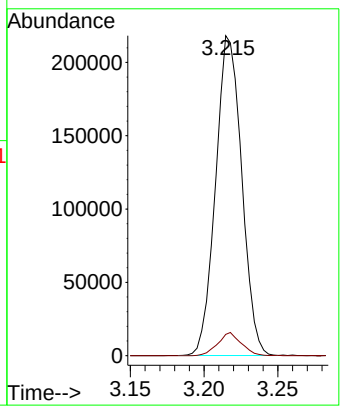




#37
1,2-Dichloroethane
Concen: 11.022 ppbv
RT: 3.215 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 62 Resp: 26844

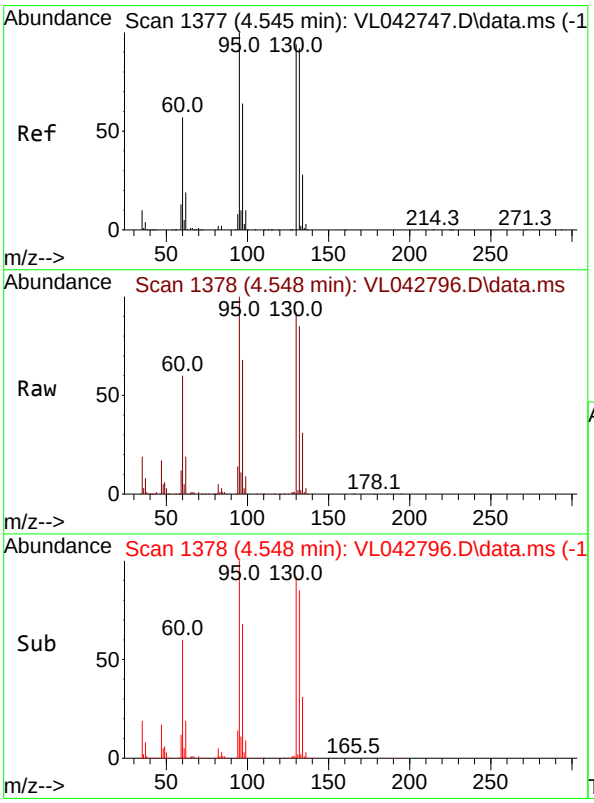
Ion	Ratio	Lower	Upper
62	100		
98	6.6	5.2	7.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

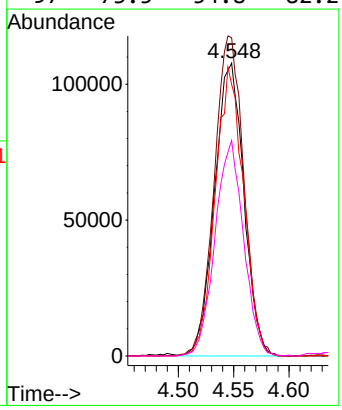
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

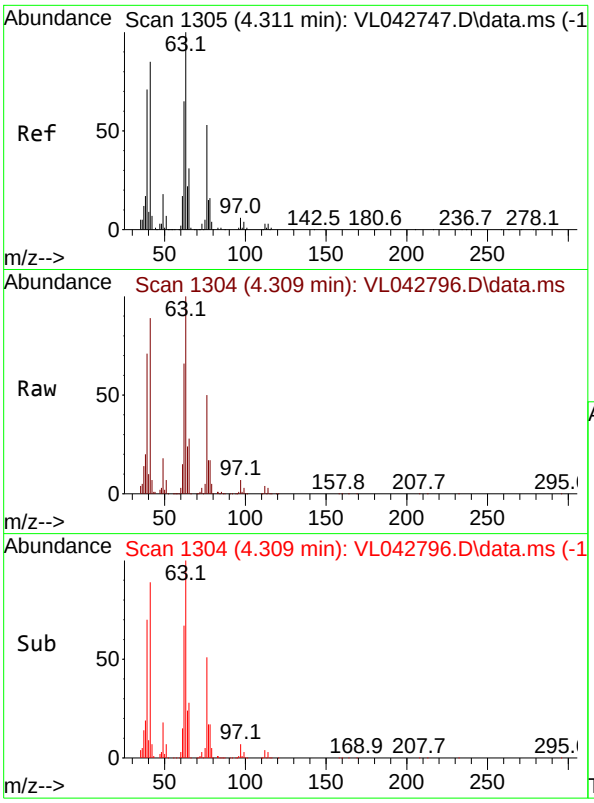


#38
Trichloroethene
Concen: 10.219 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:130 Resp: 198489

Ion	Ratio	Lower	Upper
130	100		
95	108.7	85.4	128.2
132	92.5	78.2	117.2
97	73.5	54.8	82.2

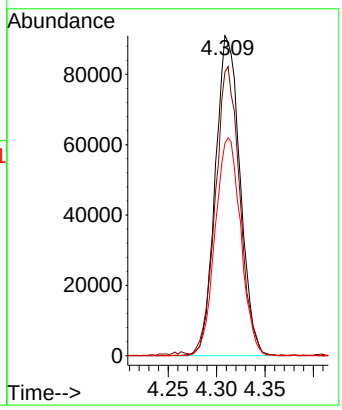




#39
1,2-Dichloropropane
Concen: 10.828 ppbv
RT: 4.309 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 63 Resp: 16160

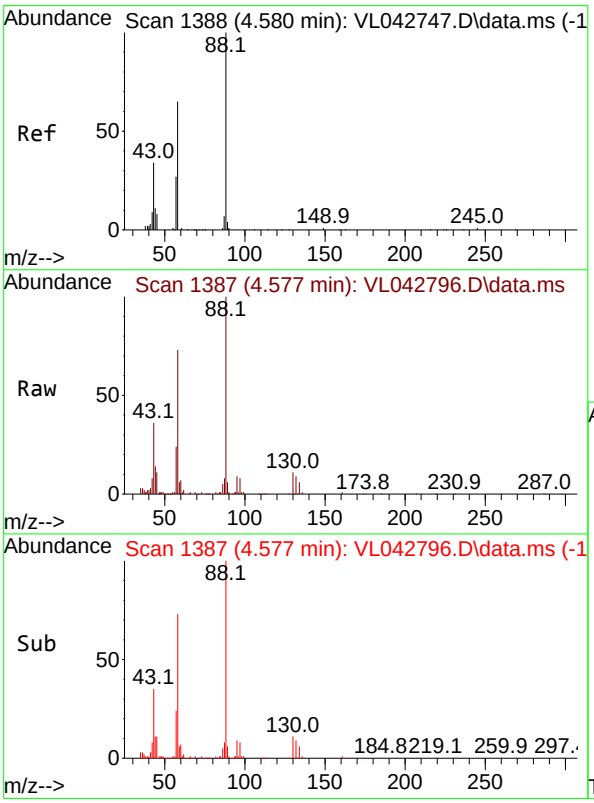
Ion	Ratio	Lower	Upper
63	100		
41	88.5	68.2	102.4
62	66.5	52.0	78.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

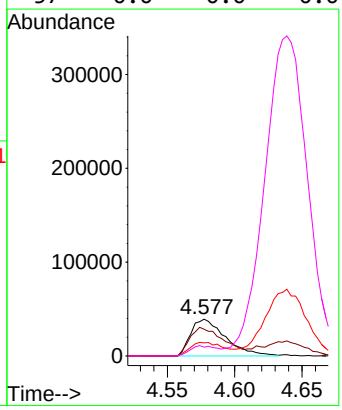
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

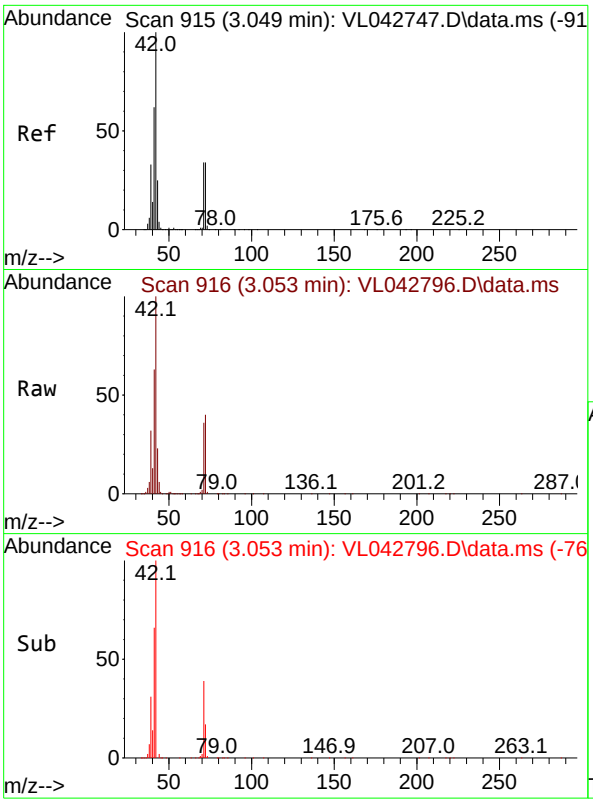


#40
1,4-Dioxane
Concen: 10.142 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 88 Resp: 70550

Ion	Ratio	Lower	Upper
88	100		
58	75.0	58.8	88.2
43	34.7	28.9	43.3
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 11.676 ppbv
RT: 3.053 min Scan# 9
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

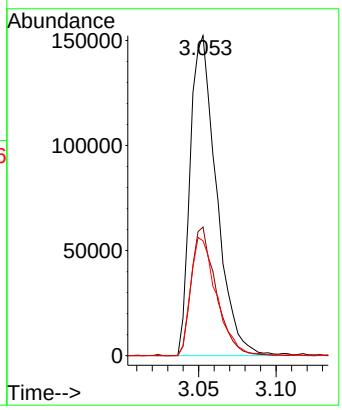
Tgt Ion: 42 Resp: 17953

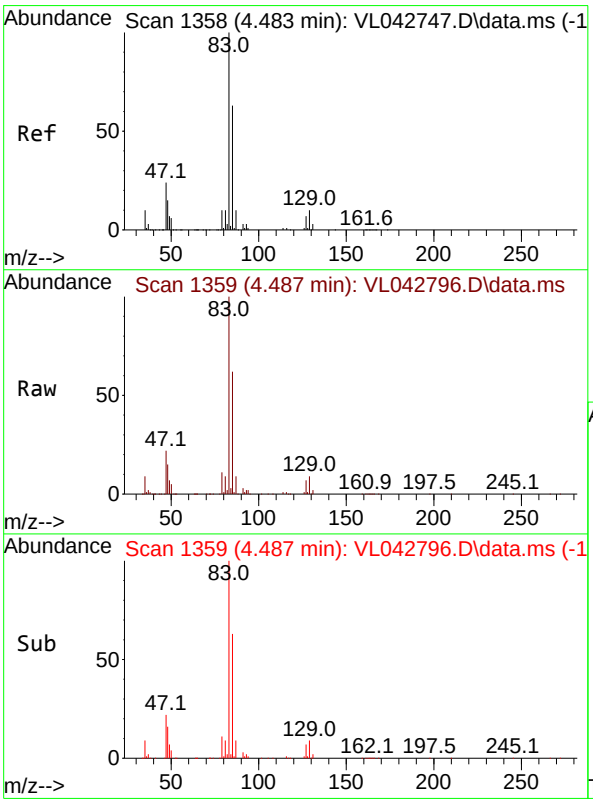
Ion	Ratio	Lower	Upper
42	100		
72	38.1	30.9	46.3
71	36.8	28.6	43.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

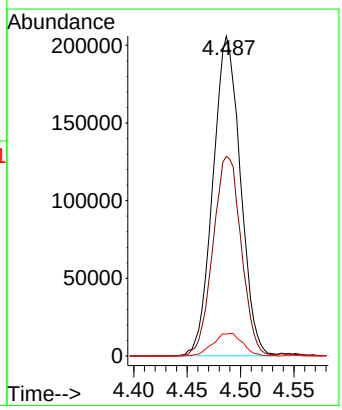


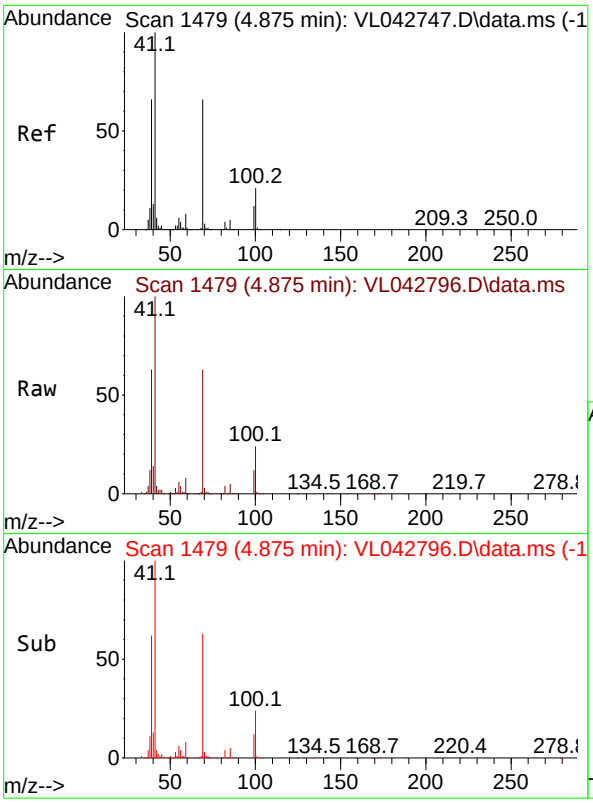


#42
Bromodichloromethane
Concen: 11.618 ppbv
RT: 4.487 min Scan# 1359
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 83 Resp: 368522

Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.2	75.4
127	6.8	5.4	8.2

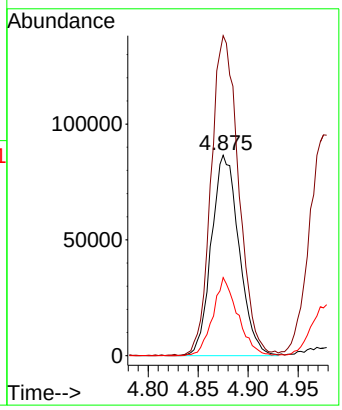




#43
Methyl Methacrylate
Concen: 11.594 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 69 Resp: 16662

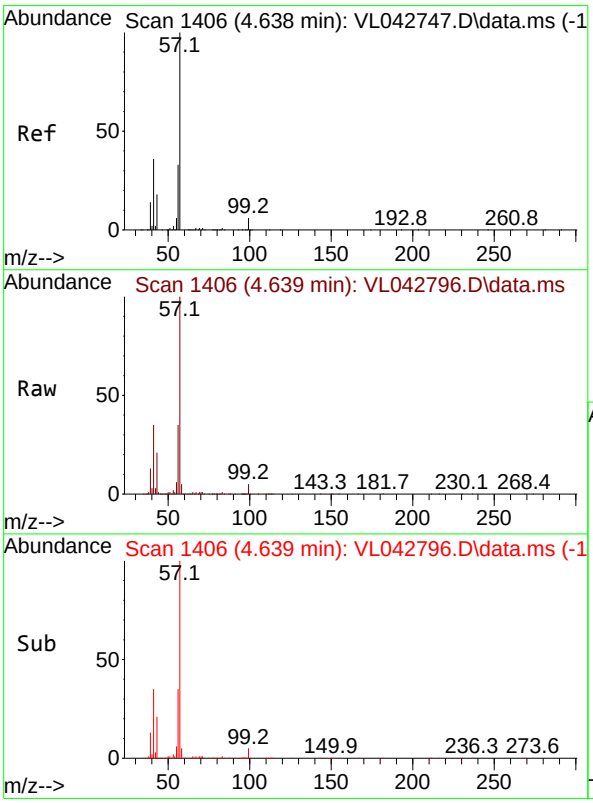
Ion	Ratio	Lower	Upper
69	100		
41	159.6	125.7	188.5
100	35.1	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

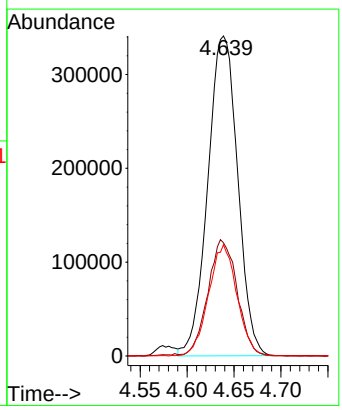
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

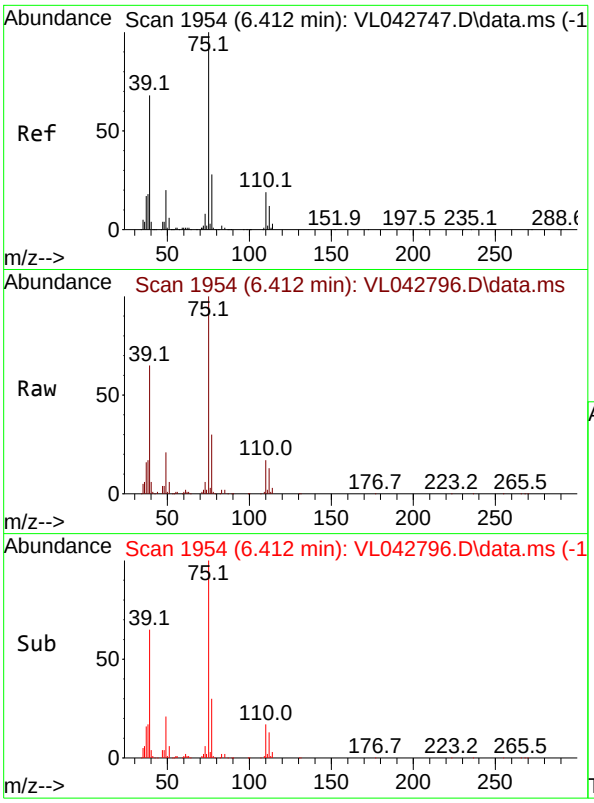


#44
2,2,4-Trimethylpentane
Concen: 11.456 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 57 Resp: 754946

Ion	Ratio	Lower	Upper
57	100		
41	35.8	28.3	42.5
56	33.1	25.8	38.6

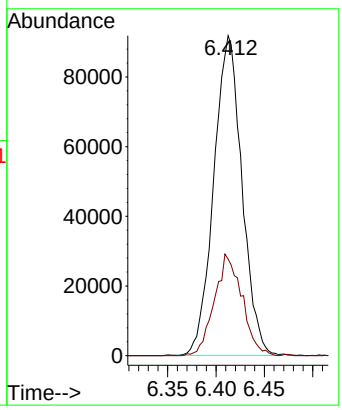




#45
t-1,3-Dichloropropene
Concen: 11.524 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 75 Resp: 18571

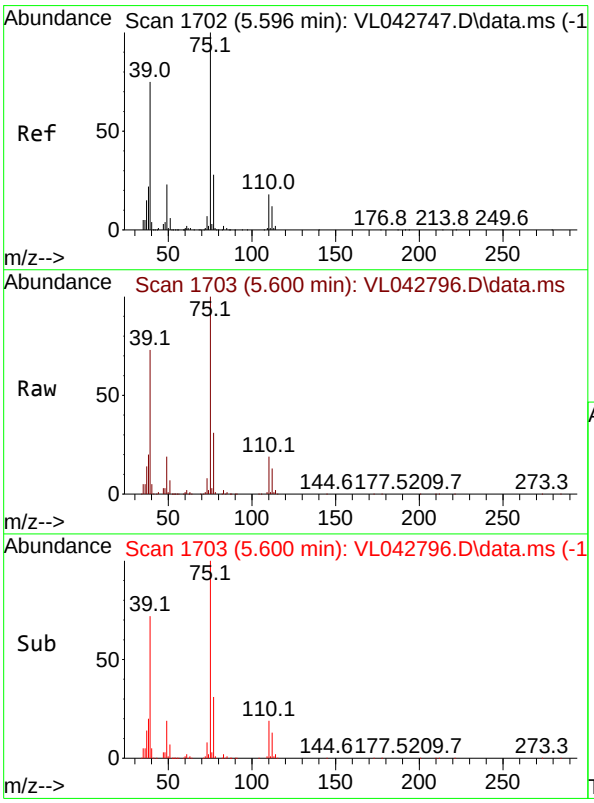
Ion	Ratio	Lower	Upper
75	100		
77	30.2	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

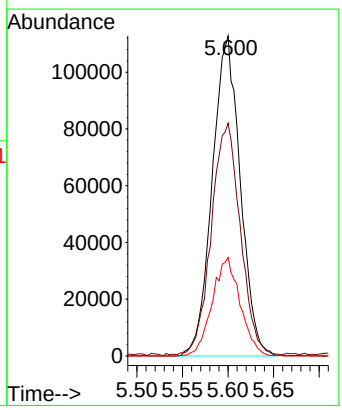
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

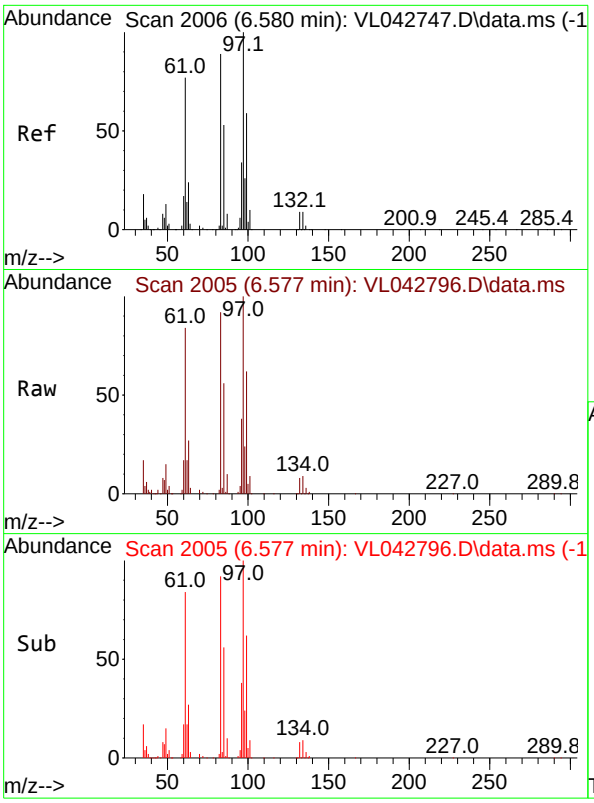


#46
cis-1,3-Dichloropropene
Concen: 11.799 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 75 Resp: 240949

Ion	Ratio	Lower	Upper
75	100		
39	72.3	60.2	90.2
77	30.6	22.6	34.0

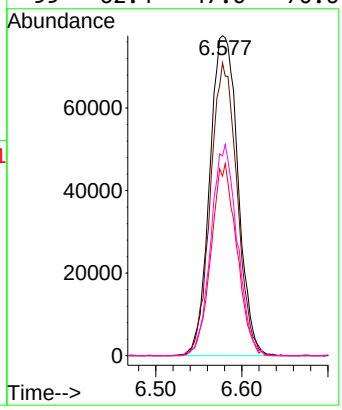




#47
1,1,2-Trichloroethane
Concen: 11.078 ppbv
RT: 6.577 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 97 Resp: 17624

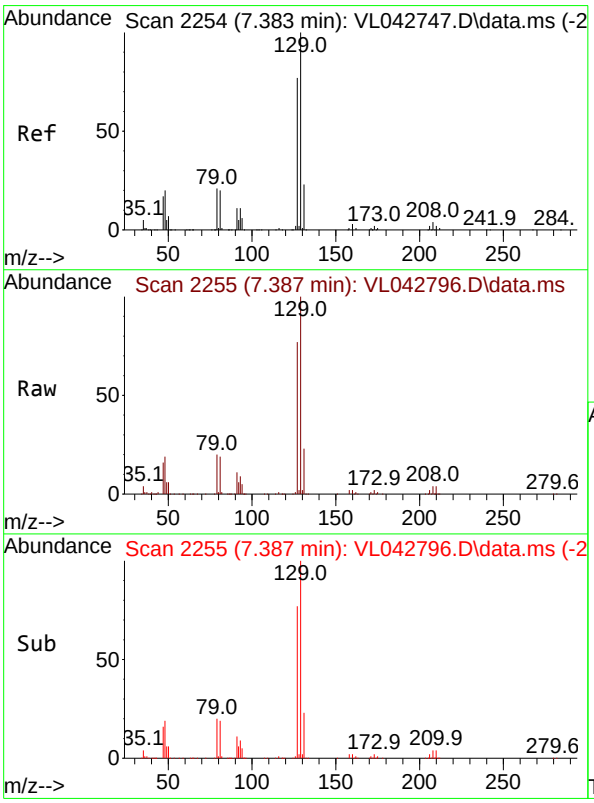
Ion	Ratio	Lower	Upper
97	100		
83	91.4	71.1	106.7
85	56.1	43.0	64.4
99	62.4	47.0	70.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

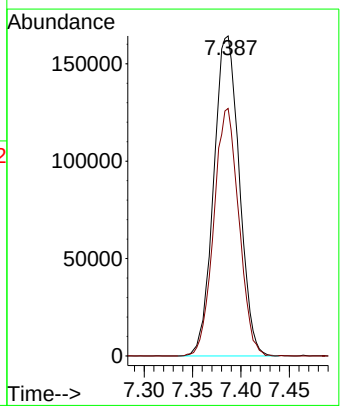
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

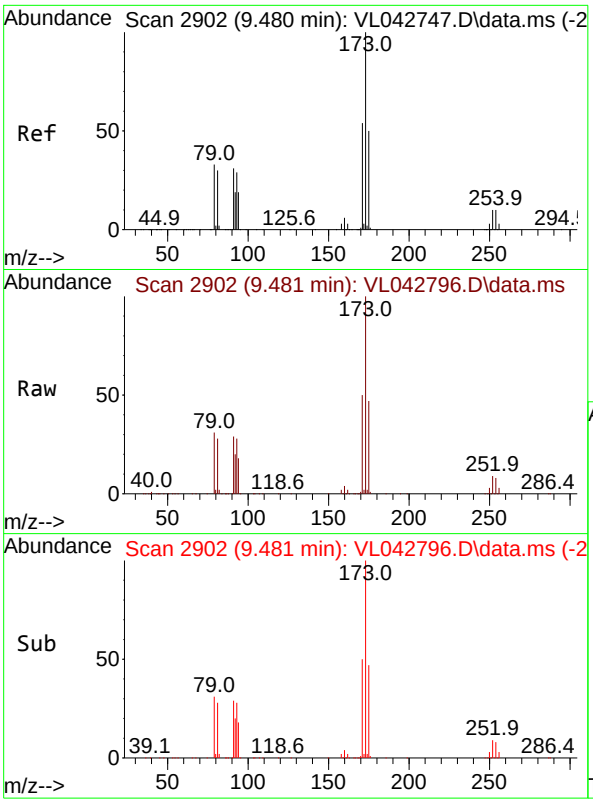


#48
Dibromochloromethane
Concen: 11.954 ppbv
RT: 7.387 min Scan# 2255
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:129 Resp: 301910

Ion	Ratio	Lower	Upper
129	100		
127	75.7	38.7	116.1

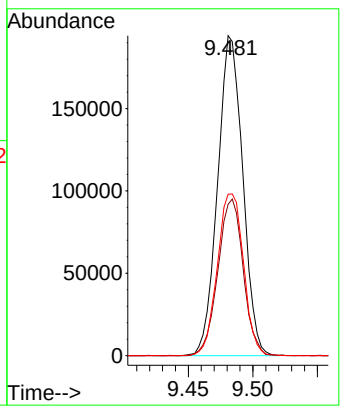




#49
Bromoform
Concen: 11.932 ppbv
RT: 9.481 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:173 Resp: 26276

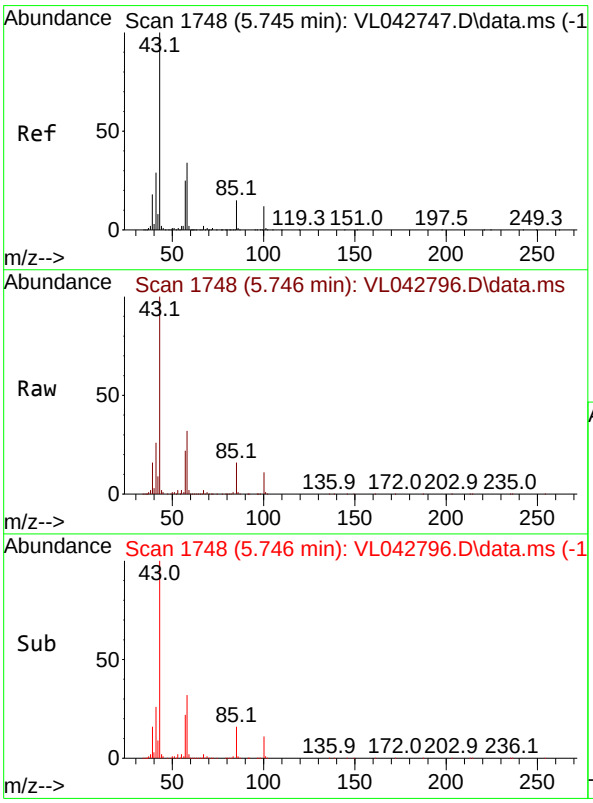
Ion	Ratio	Lower	Upper
173	100		
175	49.4	38.4	57.6
171	52.7	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

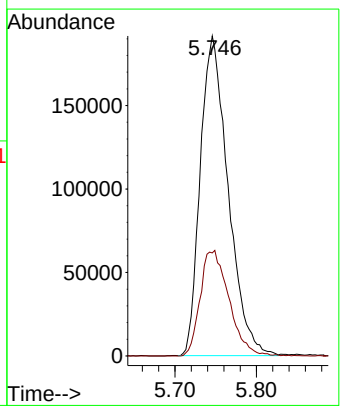
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

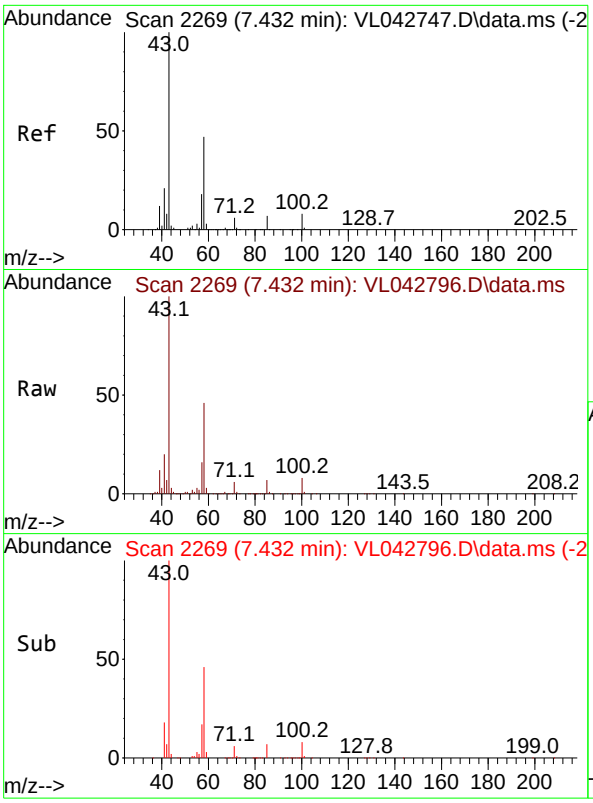


#50
4-Methyl-2-Pentanone
Concen: 11.662 ppbv
RT: 5.746 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 43 Resp: 453959

Ion	Ratio	Lower	Upper
43	100		
58	34.2	27.8	41.8





#51
2-Hexanone
Concen: 12.258 ppbv
RT: 7.432 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

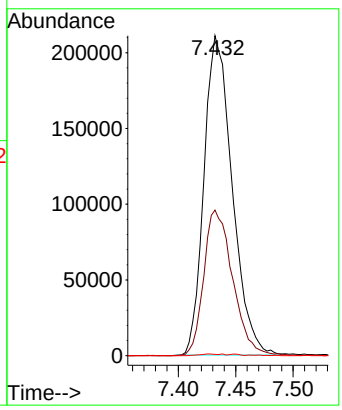
Tgt Ion: 43 Resp: 36058

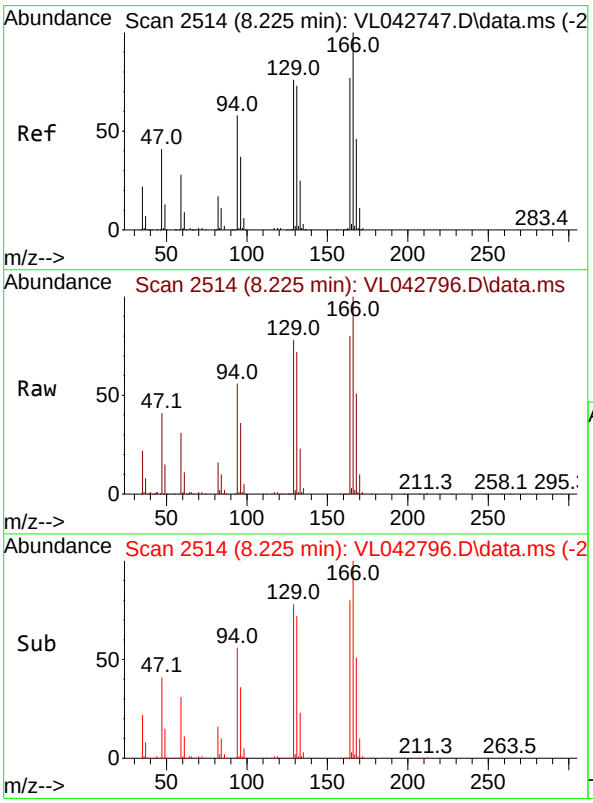
Ion	Ratio	Lower	Upper
43	100		
58	46.8	38.0	57.0
98	0.7	0.2	0.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

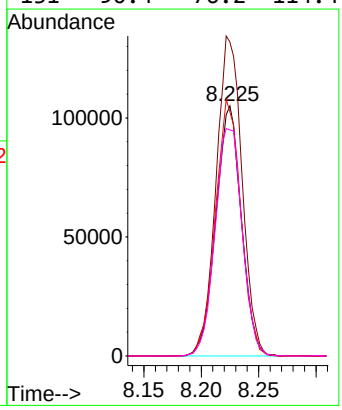


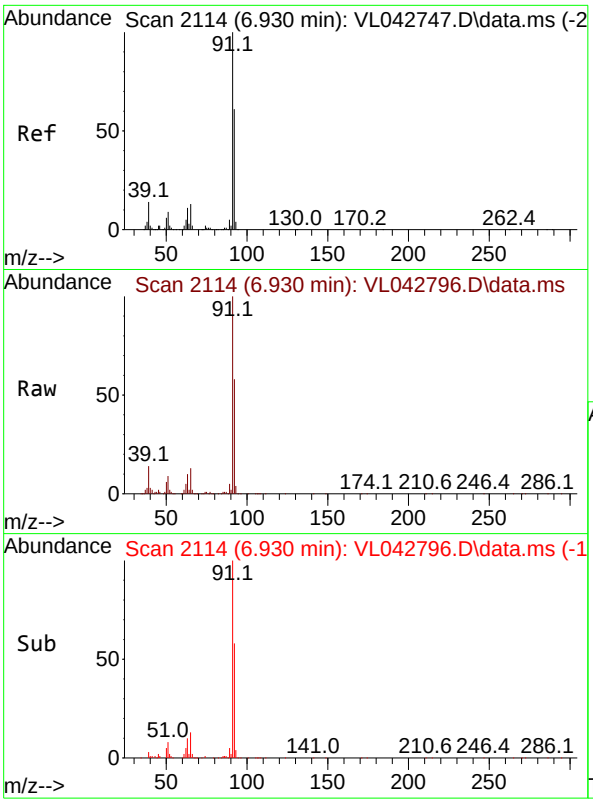


#52
Tetrachloroethene
Concen: 9.686 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:164 Resp: 162318

Ion	Ratio	Lower	Upper
164	100		
166	125.5	104.0	156.0
129	97.6	79.2	118.8
131	90.4	76.2	114.4

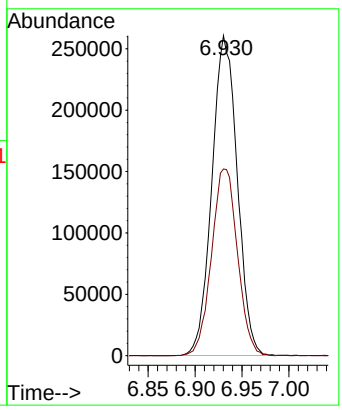




#53
Toluene
Concen: 11.278 ppbv
RT: 6.930 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 91 Resp: 48967

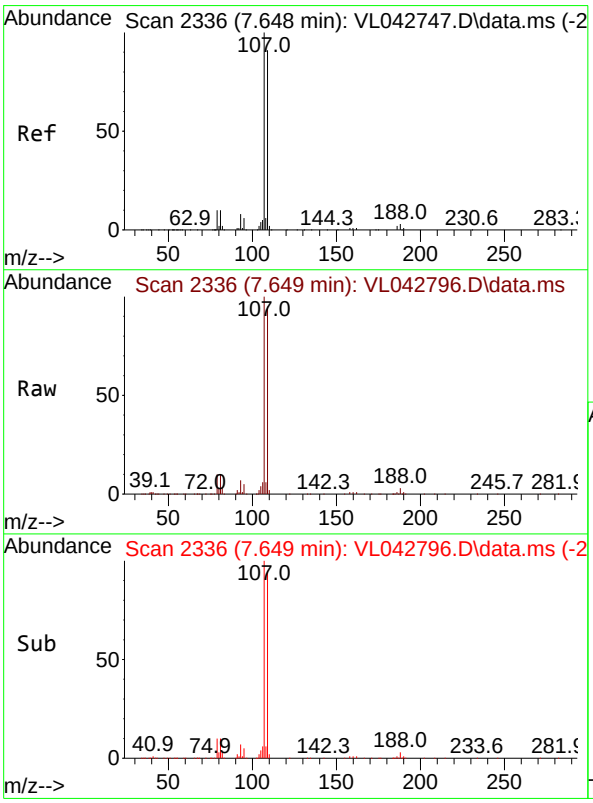
Ion	Ratio	Lower	Upper
91	100		
92	59.8	48.0	72.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

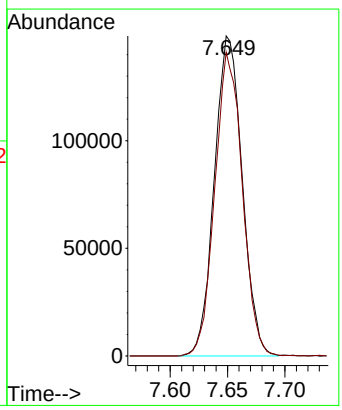
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

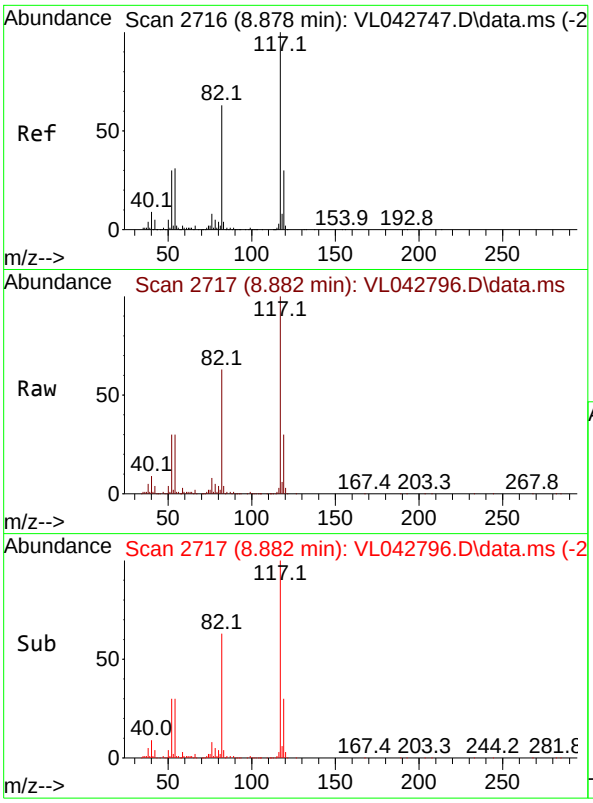


#54
1,2-Dibromoethane
Concen: 11.165 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:107 Resp: 250956

Ion	Ratio	Lower	Upper
107	100		
109	95.0	72.7	109.1

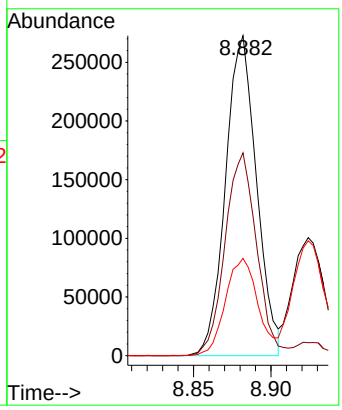




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:117 Resp: 38001

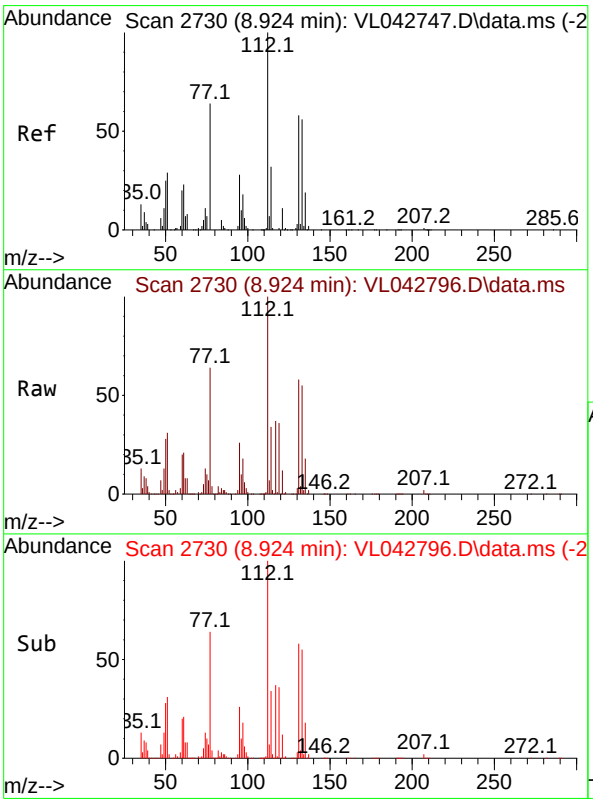
Ion	Ratio	Lower	Upper
117	100		
82	68.7	53.3	79.9
119	32.4	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

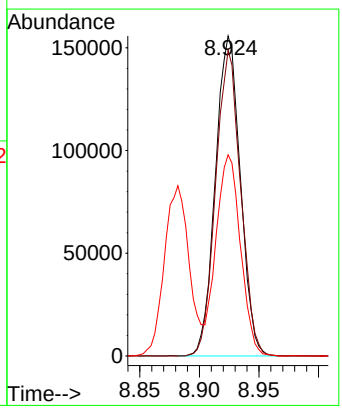
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

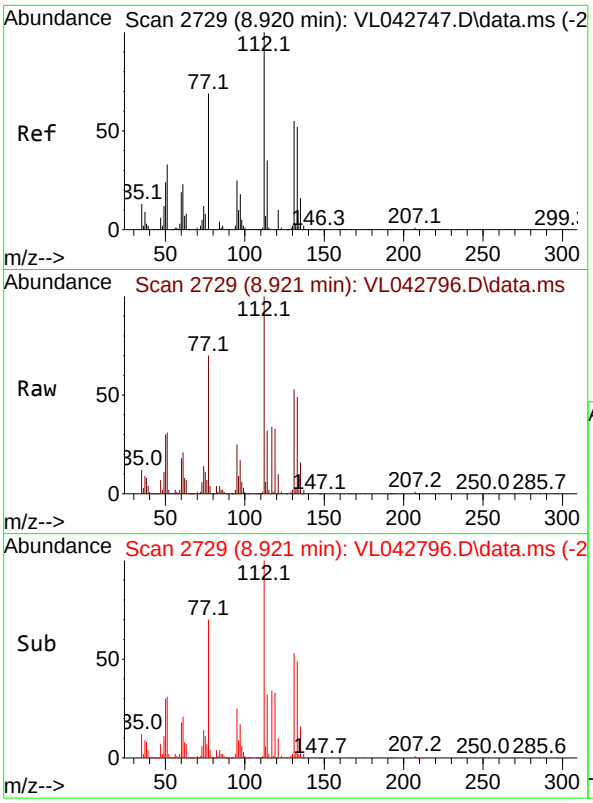


#56
1,1,1,2-Tetrachloroethane
Concen: 11.479 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:131 Resp: 226803

Ion	Ratio	Lower	Upper
131	100		
133	95.3	76.8	115.2
119	62.3	49.7	74.5

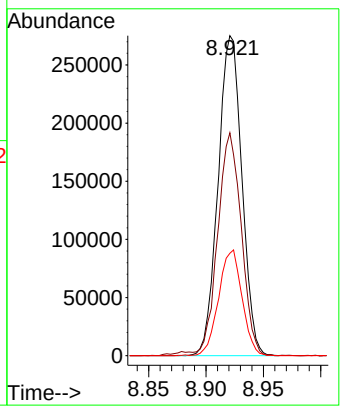




#57
Chlorobenzene
Concen: 10.808 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:112 Resp: 39751

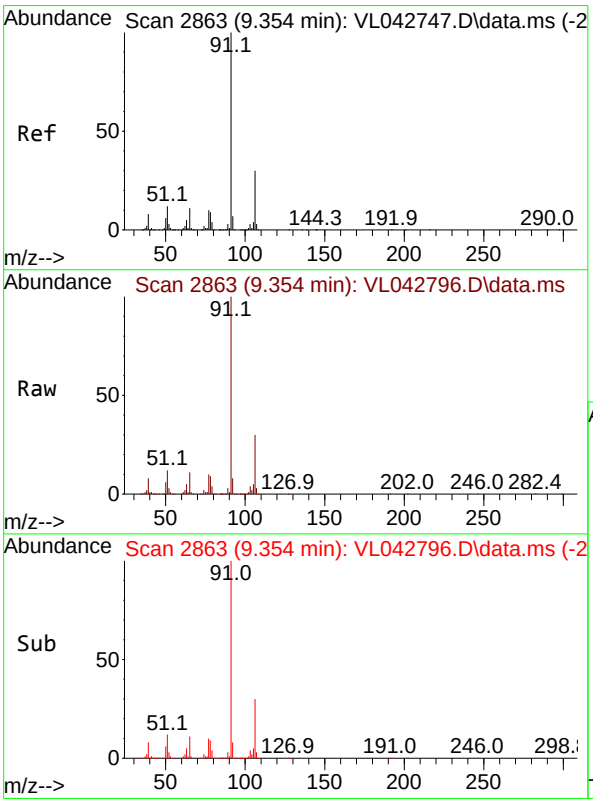
Ion	Ratio	Lower	Upper
112	100		
77	69.7	56.4	84.6
114	32.0	31.2	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

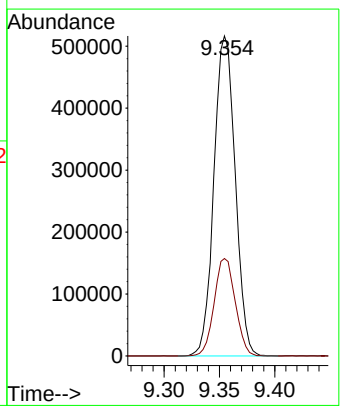
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

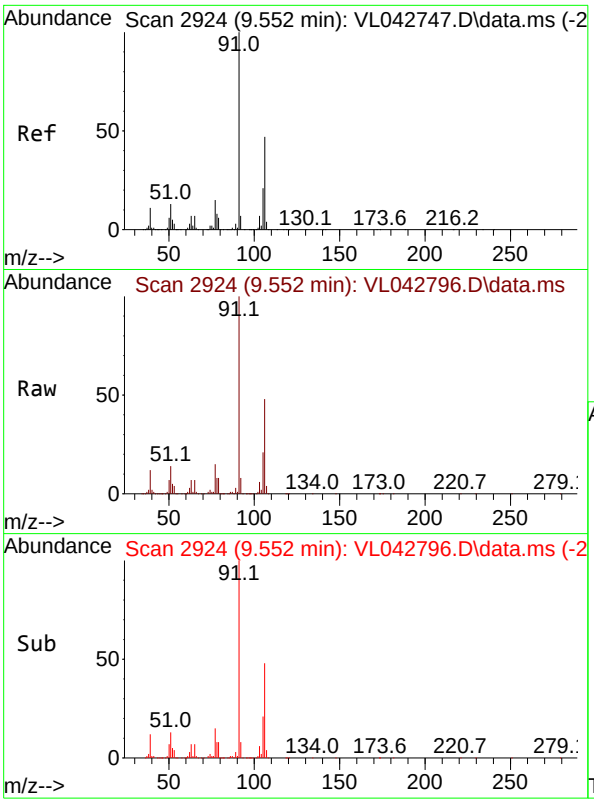


#58
Ethyl Benzene
Concen: 11.533 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 91 Resp: 692150

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.8	35.6

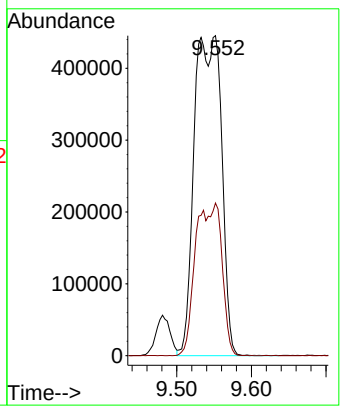




#59
m/p-Xylene
Concen: 23.649 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 91 Resp: 113424

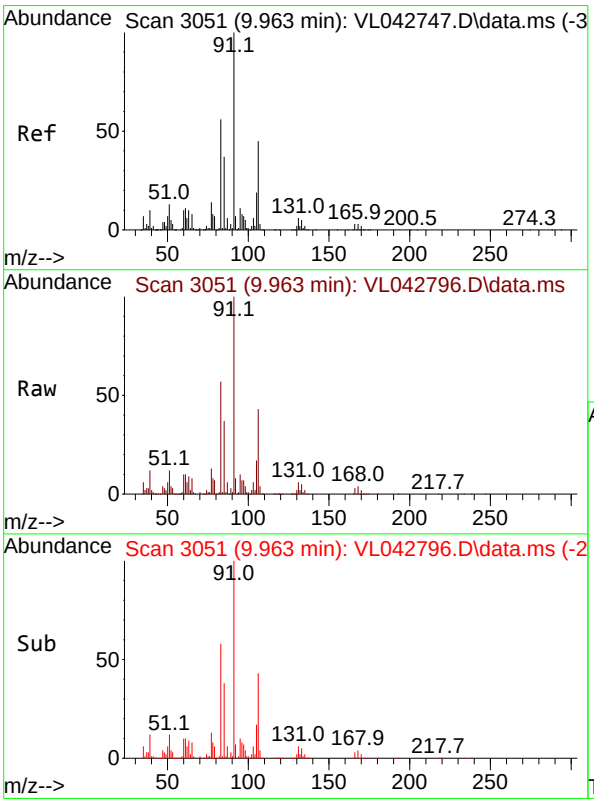
Ion	Ratio	Lower	Upper
91	100		
106	46.0	37.4	56.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

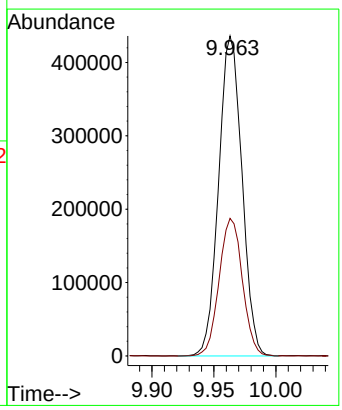
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

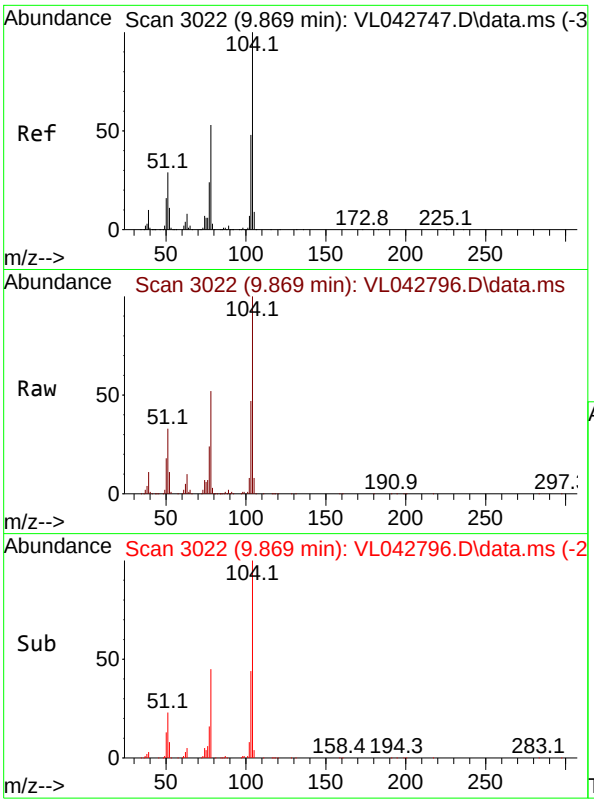


#60
o-Xylene
Concen: 11.935 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 91 Resp: 571988

Ion	Ratio	Lower	Upper
91	100		
106	43.0	22.0	66.0

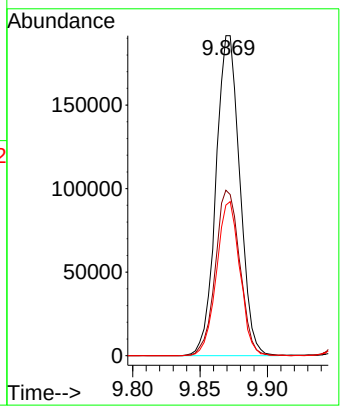




#61
Styrene
Concen: 11.699 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:104 Resp: 23584

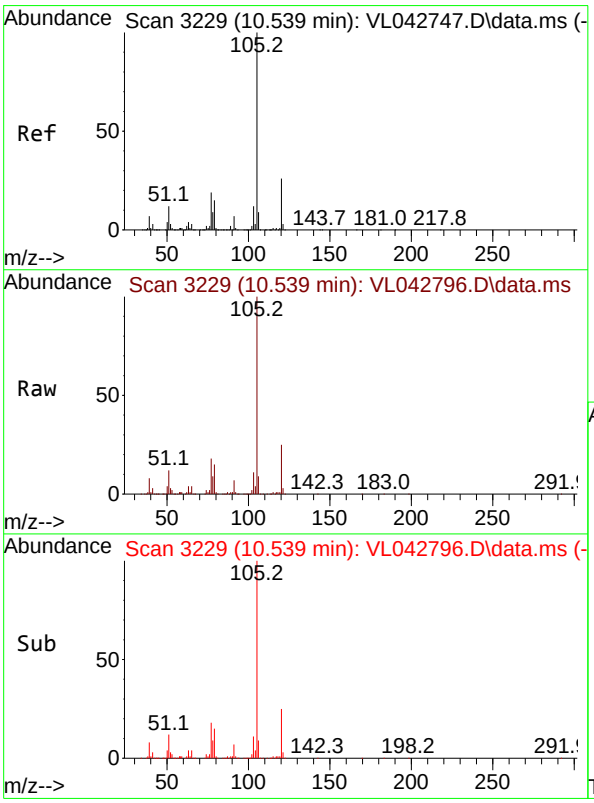
Ion	Ratio	Lower	Upper
104	100		
78	52.9	41.5	62.3
103	47.3	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

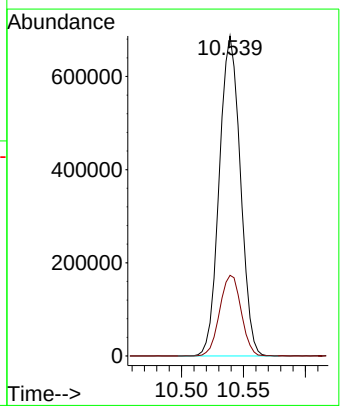
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

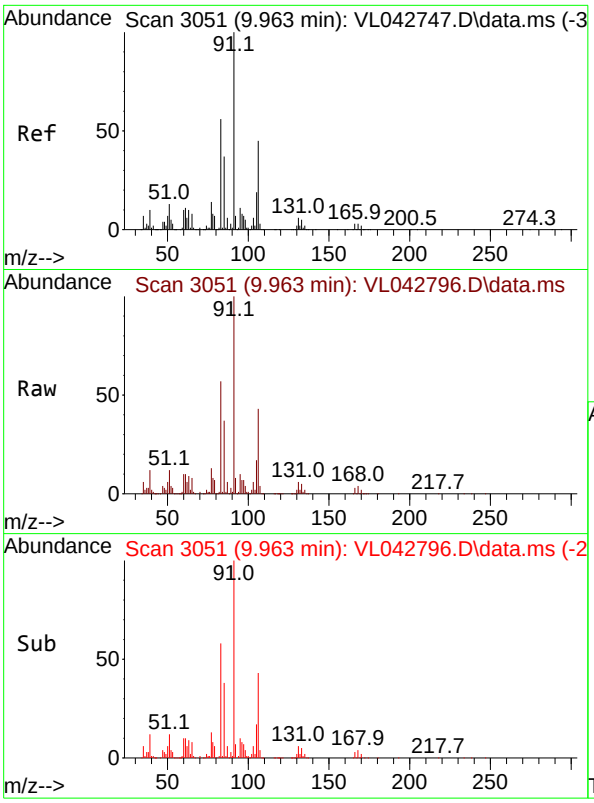


#62
Isopropylbenzene
Concen: 11.505 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:105 Resp: 813285

Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.5	30.7

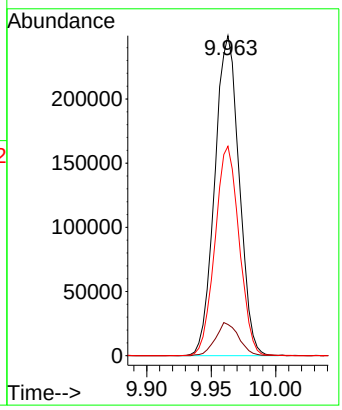




#63
1,1,2,2-Tetrachloroethane
Concen: 10.647 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 83 Resp: 32759

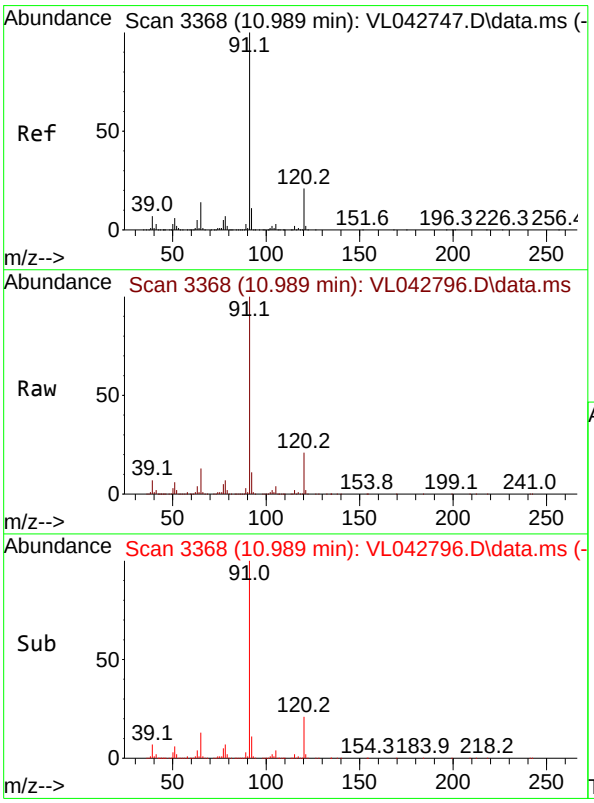
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	15.0
85	64.8	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

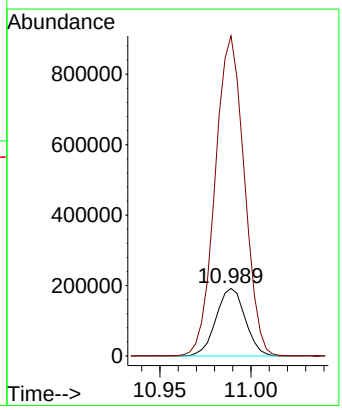
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

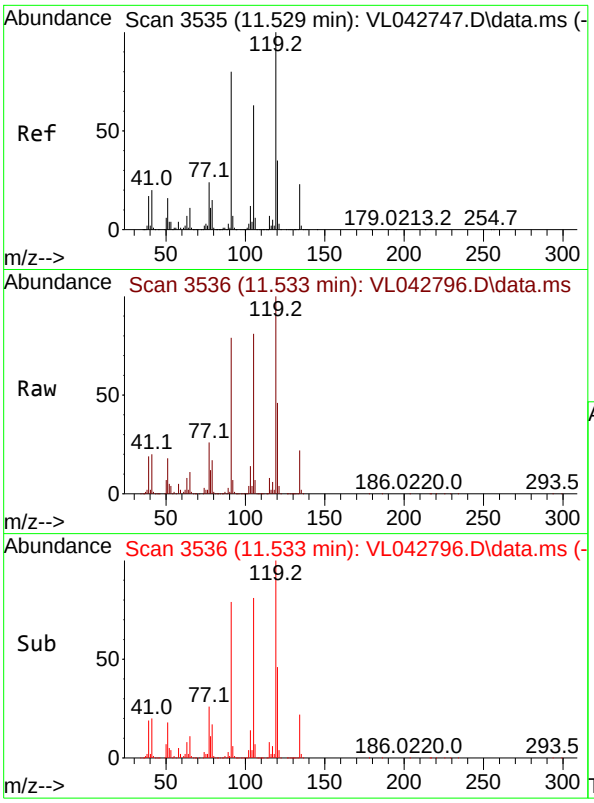


#64
n-propylbenzene
Concen: 11.553 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:120 Resp: 212922

Ion	Ratio	Lower	Upper
120	100		
91	474.8	372.7	559.1

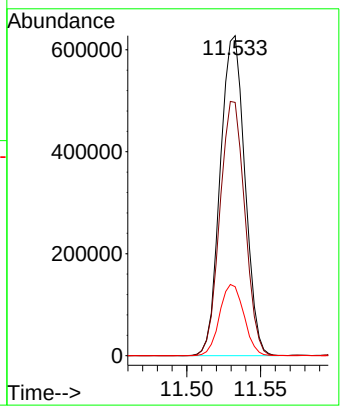




#65
tert-Butylbenzene
Concen: 11.633 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:119 Resp: 73048

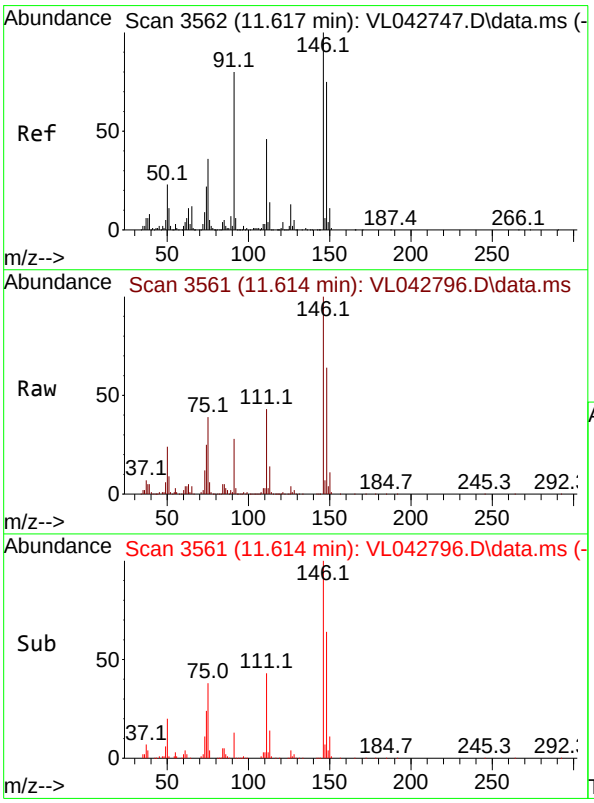
Ion	Ratio	Lower	Upper
119	100		
91	80.3	64.0	96.0
134	22.0	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

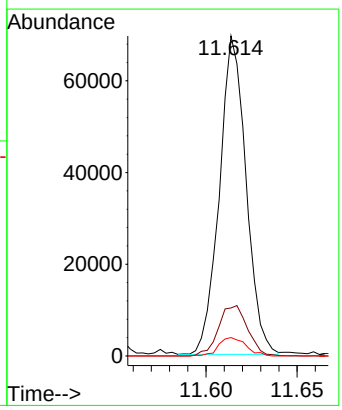
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

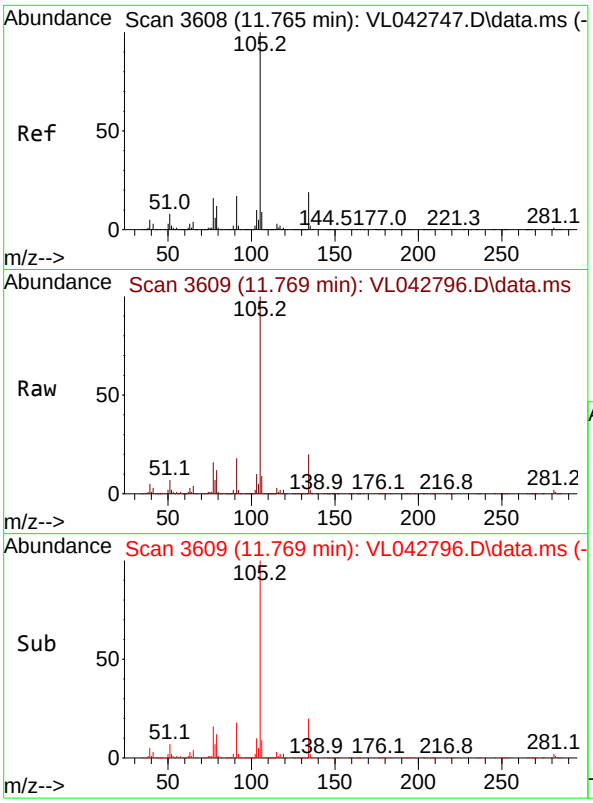


#66
Benzyl Chloride
Concen: 13.694 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 91 Resp: 70588

Ion	Ratio	Lower	Upper
91	100		
126	17.3	14.4	21.6
128	6.0	5.2	7.8





#67
sec-Butylbenzene
Concen: 11.365 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

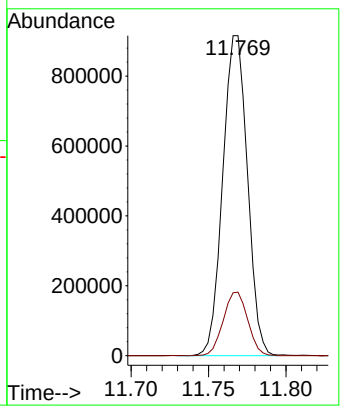
Tgt Ion:105 Resp: 101500

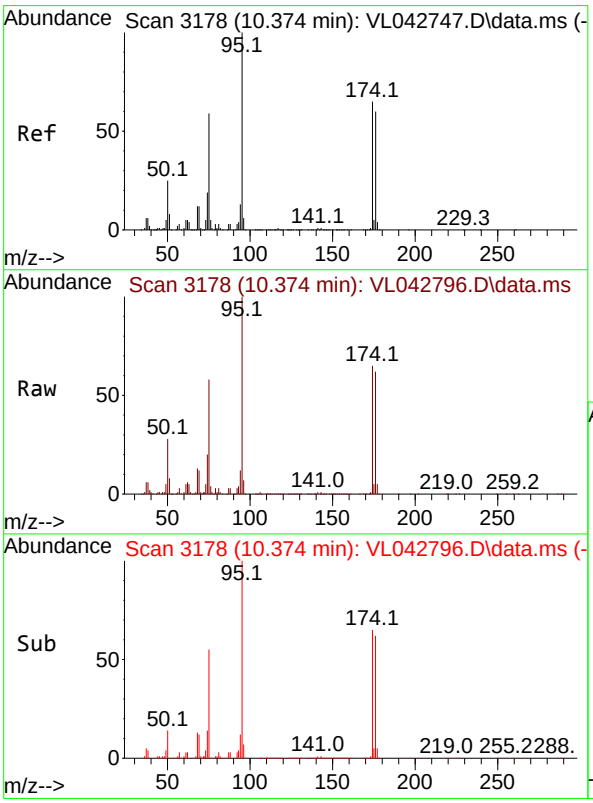
Ion	Ratio	Lower	Upper
105	100		
134	19.7	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

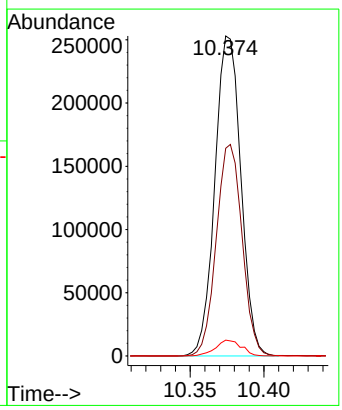


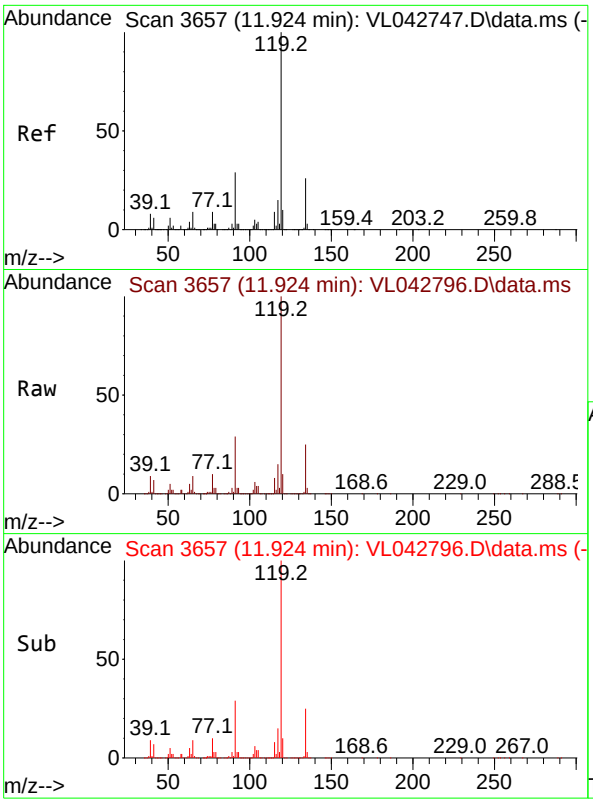


#68
1-Bromo-4-Fluorobenzene
Concen: 10.307 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 95 Resp: 310203

Ion	Ratio	Lower	Upper
95	100		
174	65.7	53.8	80.6
175	5.0	4.0	6.0

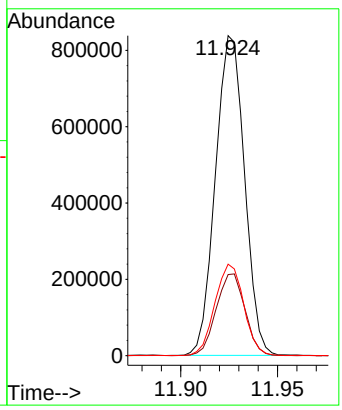




#69
p-Isopropyltoluene
Concen: 12.023 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:119 Resp: 87550

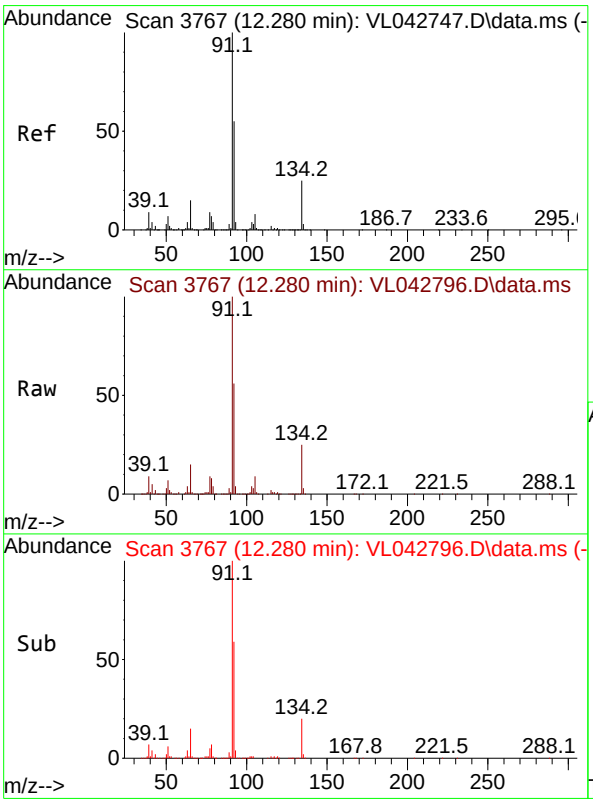
Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.6	31.0
91	28.4	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

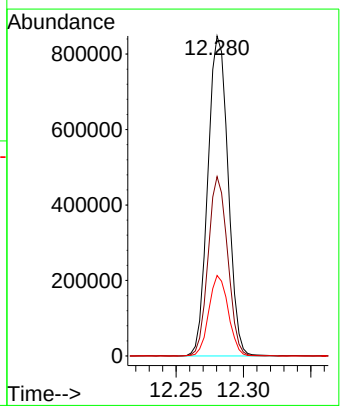
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

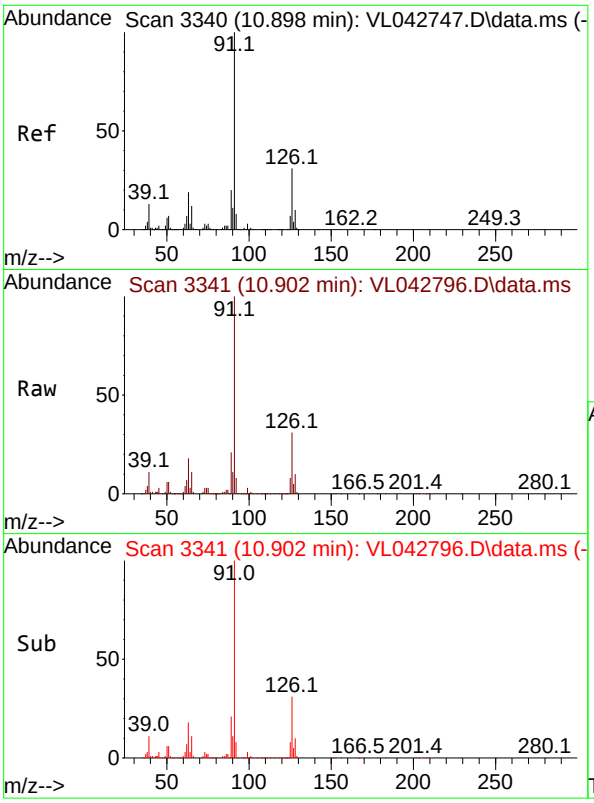


#70
n-Butylbenzene
Concen: 12.546 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 91 Resp: 882533

Ion	Ratio	Lower	Upper
91	100		
92	54.3	43.4	65.2
134	24.2	19.6	29.4

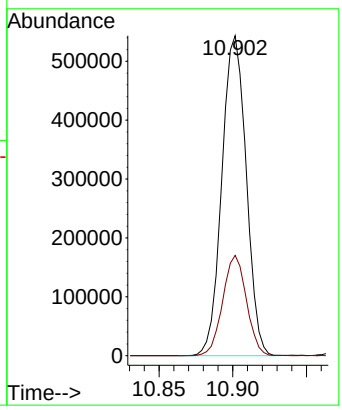




#71
2-Chlorotoluene
Concen: 11.499 ppbv
RT: 10.902 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 91 Resp: 62326

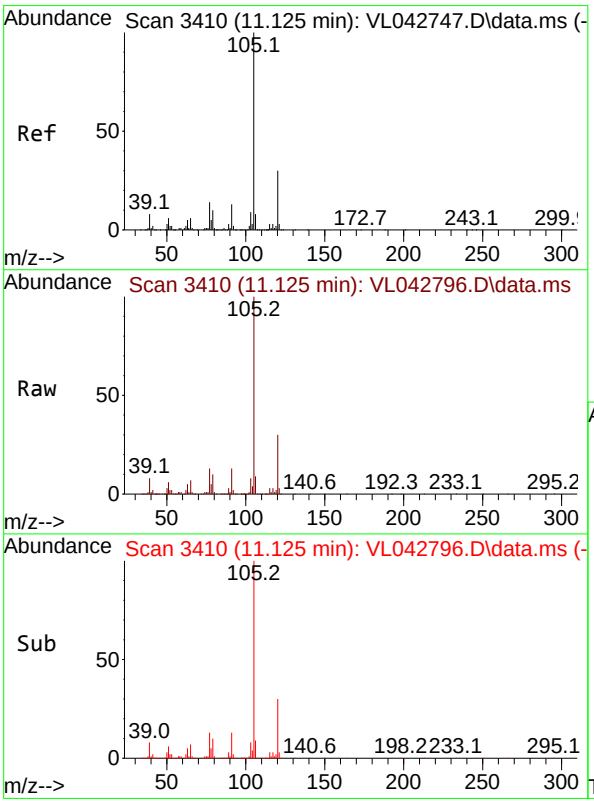
Ion	Ratio	Lower	Upper
91	100		
126	30.5	12.0	48.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

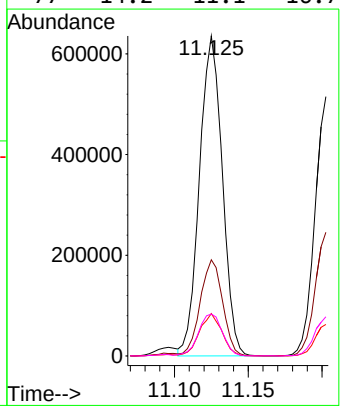
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

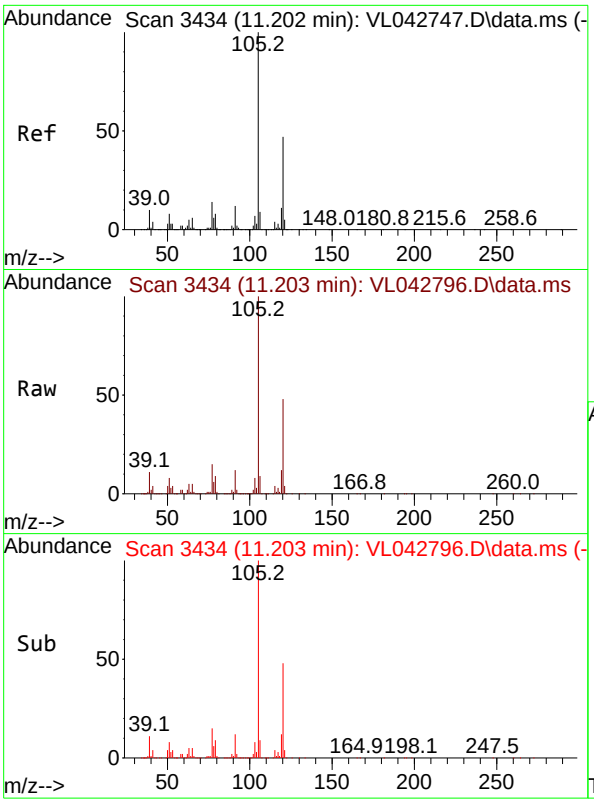


#72
4-Ethyltoluene
Concen: 11.973 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:105 Resp: 685255

Ion	Ratio	Lower	Upper
105	100		
120	30.2	24.4	36.6
91	13.3	10.6	15.8
77	14.2	11.1	16.7





#73
1,3,5-Trimethylbenzene
Concen: 12.142 ppbv
RT: 11.203 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

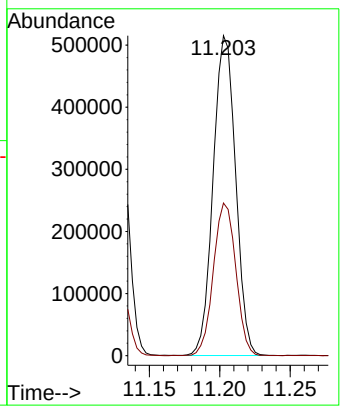
Tgt Ion:105 Resp: 57217

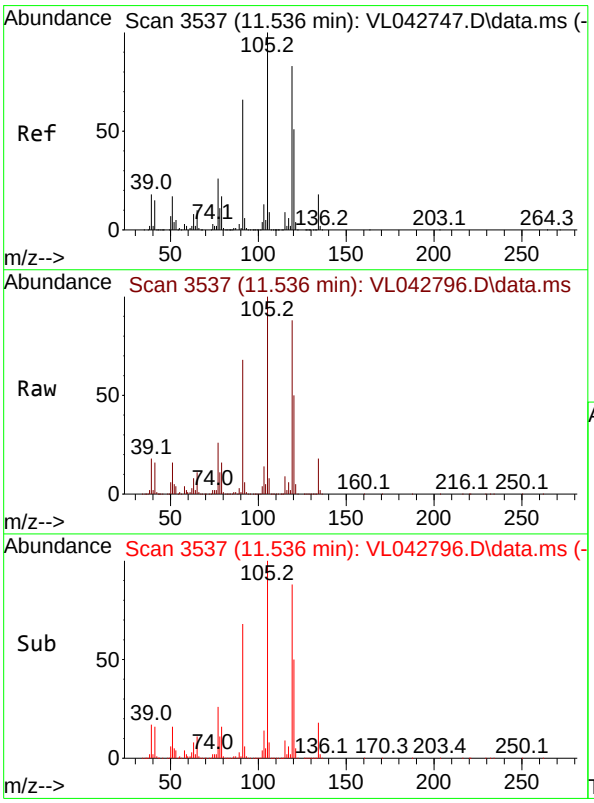
Ion	Ratio	Lower	Upper
105	100		
120	47.6	37.8	56.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

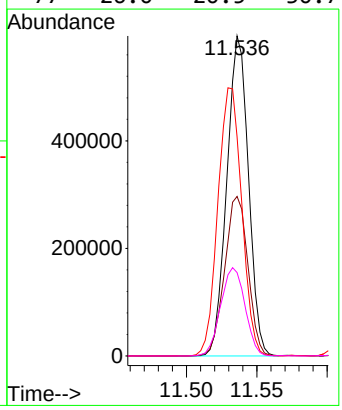


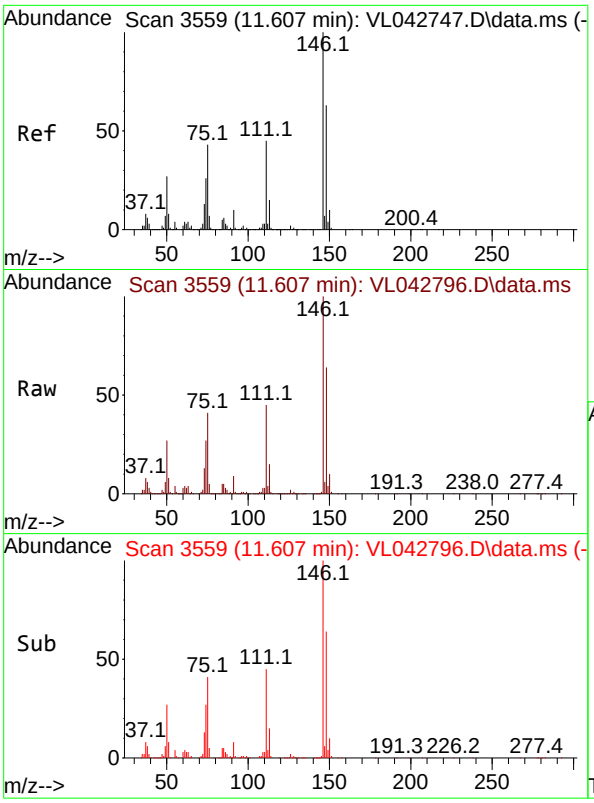


#74
1,2,4-Trimethylbenzene
Concen: 12.358 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:105 Resp: 635314

Ion	Ratio	Lower	Upper
105	100		
120	49.9	40.8	61.2
91	68.4	53.0	79.4
77	26.0	20.5	30.7

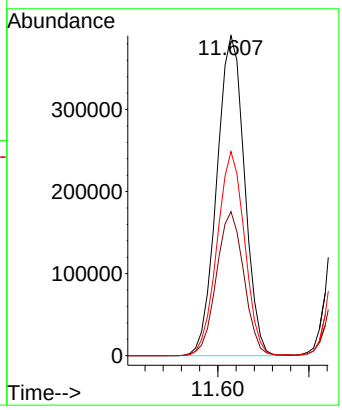




#75
1,3-Dichlorobenzene
Concen: 11.441 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:146 Resp: 41234

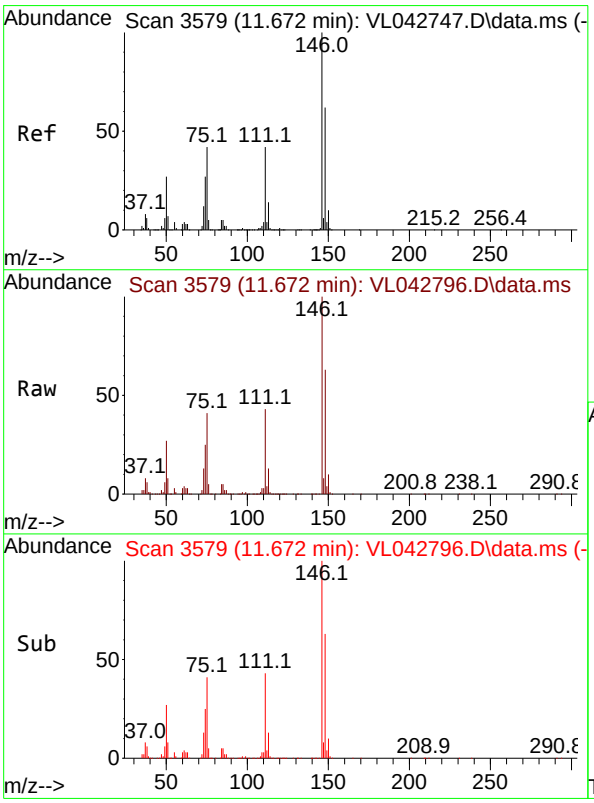
Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.7	68.0
148	63.3	31.9	95.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

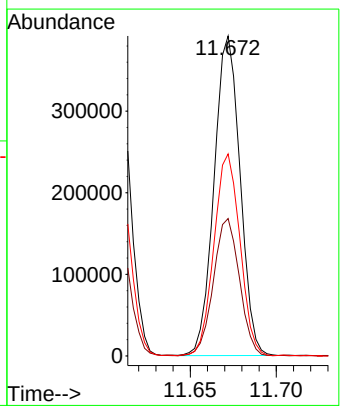
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

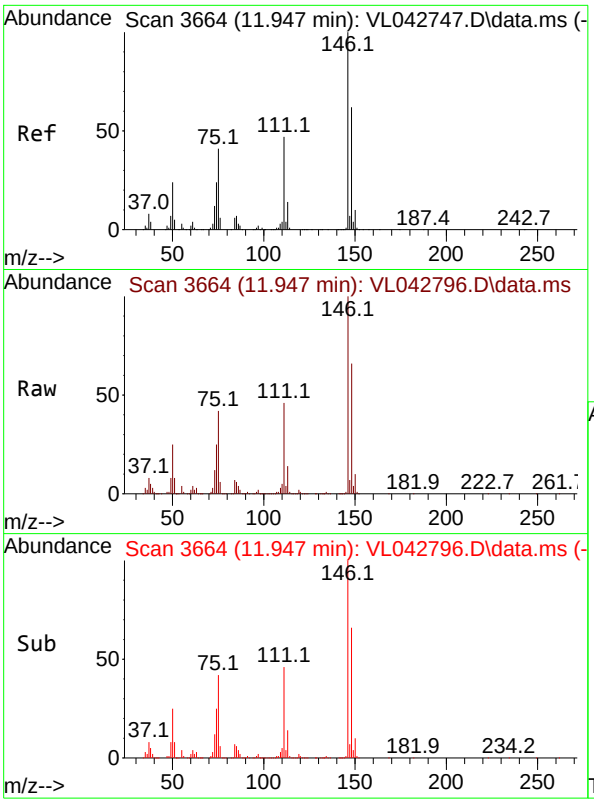


#76
1,4-Dichlorobenzene
Concen: 11.679 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:146 Resp: 411896

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.4	64.2
148	63.6	32.1	96.3

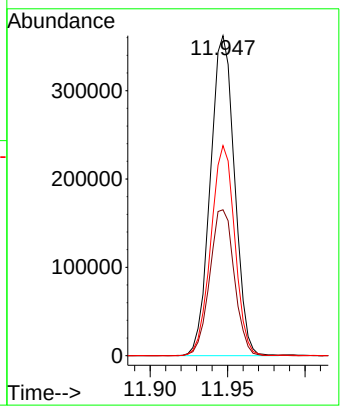




#77
1,2-Dichlorobenzene
Concen: 11.104 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:146 Resp: 39333

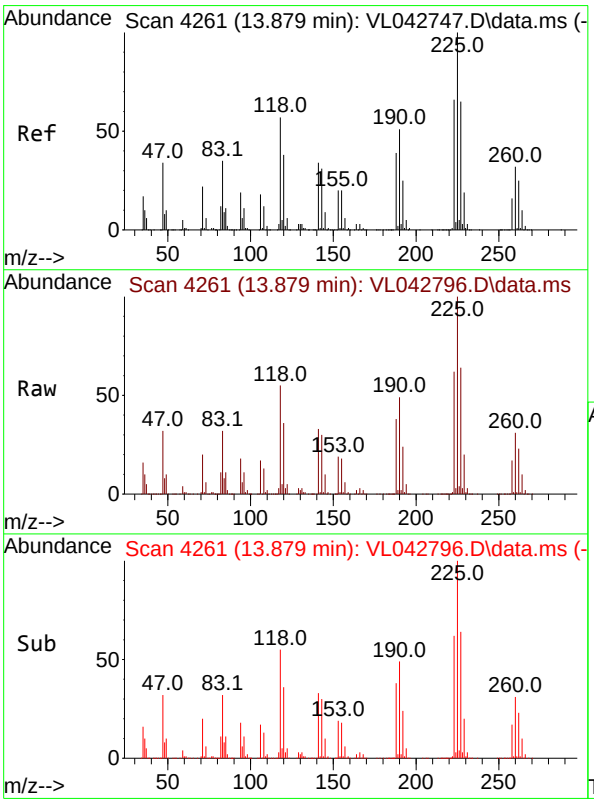
Ion	Ratio	Lower	Upper
146	100		
111	46.5	23.7	71.1
148	64.9	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

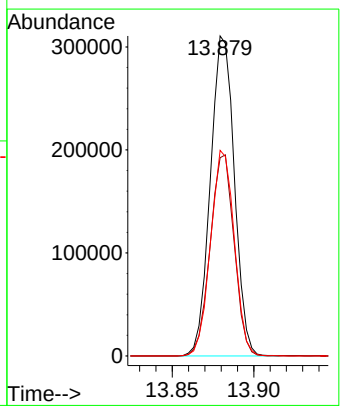
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

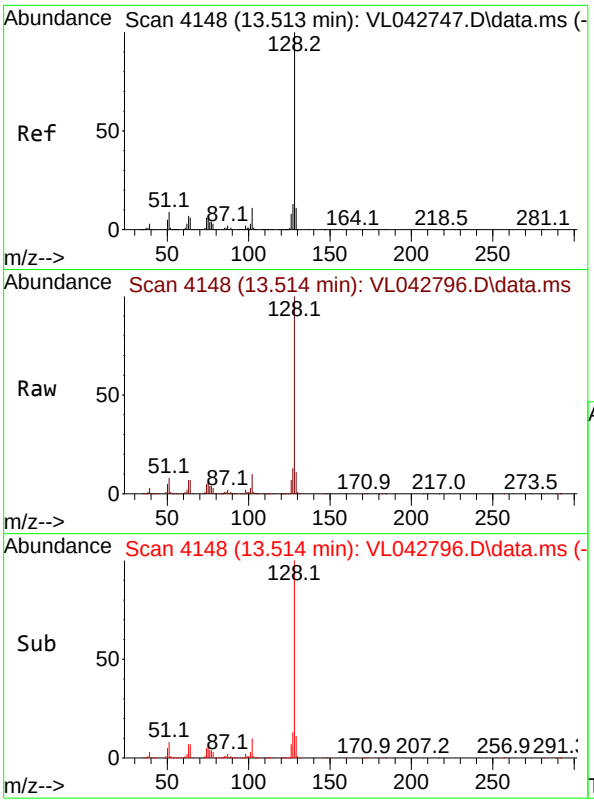


#78
Hexachloro-1,3-Butadiene
Concen: 9.905 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:225 Resp: 317563

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.7	76.1
227	63.6	50.5	75.7

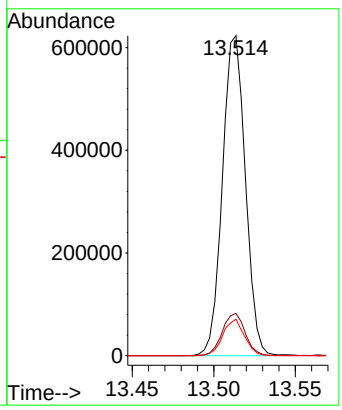




#79
Naphthalene
Concen: 10.889 ppbv
RT: 13.514 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:128 Resp: 60971

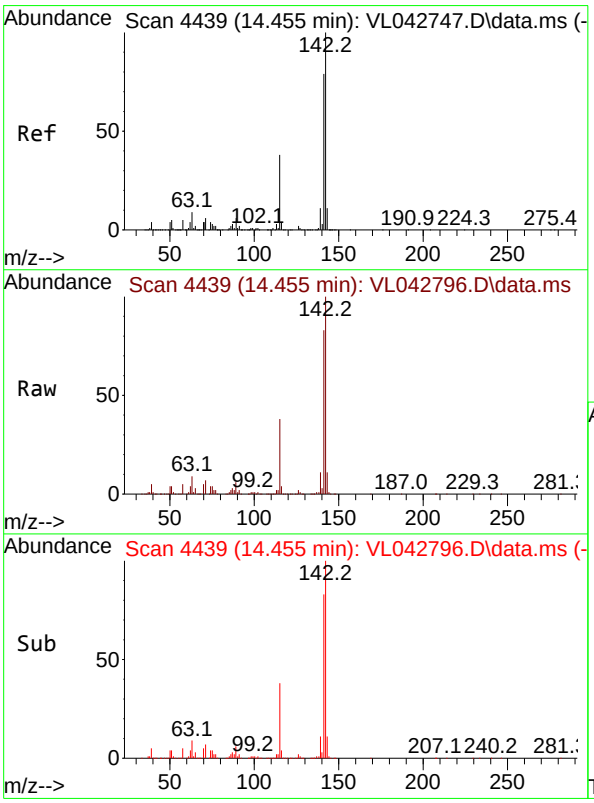
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	11.4	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

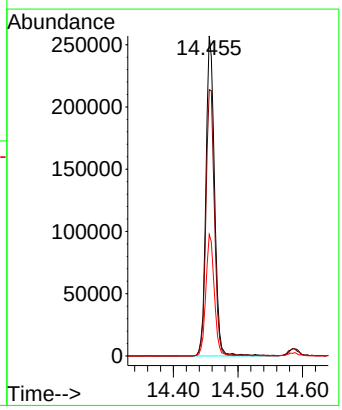
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

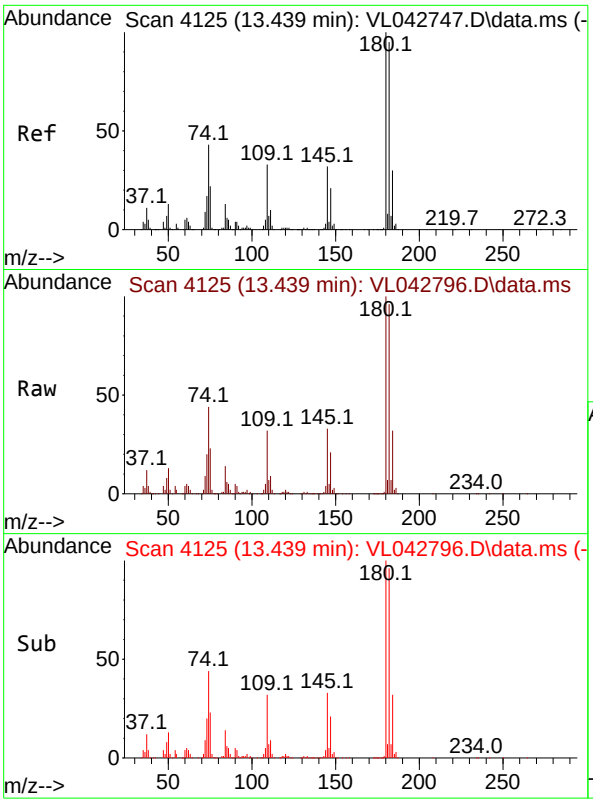


#80
Naphthalene,2-methyl-
Concen: 8.684 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:142 Resp: 237582

Ion	Ratio	Lower	Upper
142	100		
141	84.0	65.8	98.8
115	38.0	31.2	46.8

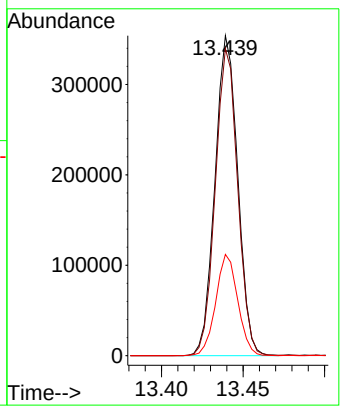




#81
1,2,4-Trichlorobenzene
Concen: 10.915 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:180 Resp: 34352

Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.2	114.2
184	30.7	24.8	37.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042796.D
Acq On : 04 Aug 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: Aug 05 00:59:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 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	1.322	1.326	-0.3	109	0.00
3		Chlorodifluoromethane	1.722	1.773	-3.0	107	0.00
4		Chloromethane	0.535	0.535	0.0	109	0.00
5	T	Vinyl Chloride	0.528	0.489	7.4	117	0.00
6	T	Bromomethane	0.204	0.210	-2.9	116	0.00
7		Chloroethane	0.204	0.203	0.5	113	0.00
8	T	Dichlorotetrafluoroethane	1.087	1.084	0.3	109	0.00
9	T	Propene	0.626	0.641	-2.4	106	0.00
10	T	Heptane	1.688	1.847	-9.4	111	0.00
11	T	Trichlorofluoromethane	1.363	1.392	-2.1	112	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.036	1.043	-0.7	109	0.00
13		Ethanol	0.083	0.047#	43.4#	93	0.00
14	T	Bromoethene	0.367	0.383	-4.4	112	0.00
15	T	Acetone	1.381	1.131	18.1	111	0.00
16	T	1,3-Butadiene	0.589	0.574	2.5	111	0.00
17		tert-Butyl alcohol	1.245	1.248	-0.2	105	0.00
18	T	1,1-Dichloroethene	0.468	0.469	-0.2	114	0.00
19	T	Isopropyl Alcohol	0.734	0.726	1.1	108	0.00
20	T	Methylene Chloride	0.435	0.394	9.4	115	0.00
21	T	Allyl Chloride	0.851	0.906	-6.5	111	0.00
22	T	trans-1,2-Dichloroethene	0.503	0.515	-2.4	110	0.00
23	T	Vinyl Acetate	1.674	1.836	-9.7	106	0.00
24	T	1,1-Dichloroethane	1.033	1.068	-3.4	111	0.00
25	T	Ethyl Acetate	3.056	3.310	-8.3	110	0.00
26	T	Hexane	1.341	1.417	-5.7	109	0.00
27	T	Carbon Disulfide	1.148	1.273	-10.9	115	0.00
28	T	Methyl tert-Butyl Ether	0.633	0.596	5.8	105	0.00
29	T	Chloroform	2.072	2.180	-5.2	112	0.00
30	T	Cyclohexane	1.137	1.159	-1.9	101	0.00
31	T	cis-1,2-Dichloroethene	1.378	1.400	-1.6	105	0.00
32	T	1,1,1-Trichloroethane	2.158	2.147	0.5	108	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34	T	2-Butanone	0.708	0.802	-13.3	112	0.00
35	T	Carbon Tetrachloride	0.743	0.823	-10.8	108	0.00
36	T	Benzene	0.948	1.029	-8.5	106	0.00
37	T	1,2-Dichloroethane	0.571	0.629	-10.2	108	0.00
38	T	Trichloroethene	0.455	0.465	-2.2	105	0.00
39	T	1,2-Dichloropropane	0.350	0.379	-8.3	108	0.00
40	T	1,4-Dioxane	0.163	0.165	-1.2	108	0.00
41	T	Tetrahydrofuran	0.360	0.421	-16.9	107	0.00
42	T	Bromodichloromethane	0.744	0.864	-16.1	110	0.00
43		Methyl Methacrylate	0.337	0.391	-16.0	103	0.00
44	T	2,2,4-Trimethylpentane	1.545	1.770	-14.6	110	0.00
45	T	t-1,3-Dichloropropene	0.378	0.435	-15.1	100	0.00
46	T	cis-1,3-Dichloropropene	0.479	0.565	-18.0	103	0.00
47	T	1,1,2-Trichloroethane	0.373	0.413	-10.7	110	0.00
48	T	Dibromochloromethane	0.592	0.708	-19.6	109	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042796.D
Acq On : 04 Aug 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: Aug 05 00:59:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 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	0.516	0.616	-19.4	107	0.00
50	T	4-Methyl-2-Pentanone	0.912	1.064	-16.7	110	0.00
51	T	2-Hexanone	0.690	0.845	-22.5	107	0.00
52	T	Tetrachloroethene	0.393	0.380	3.3	103	0.00
53	T	Toluene	1.018	1.148	-12.8	104	0.00
54	T	1,2-Dibromoethane	0.527	0.588	-11.6	105	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56		1,1,1,2-Tetrachloroethane	0.520	0.597	-14.8	111	0.00
57	T	Chlorobenzene	0.968	1.046	-8.1	107	0.00
58	T	Ethyl Benzene	1.579	1.821	-15.3	106	0.00
59	T	m/p-Xylene	1.262	1.492	-18.2	109	0.00
60	T	o-Xylene	1.261	1.505	-19.3	111	0.00
61	T	Styrene	0.531	0.621	-16.9	100	0.00
62		Isopropylbenzene	1.860	2.140	-15.1	107	0.00
63	T	1,1,2,2-Tetrachloroethane	0.810	0.862	-6.4	112	0.00
64		n-propylbenzene	0.485	0.560	-15.5	107	0.00
65		tert-Butylbenzene	1.652	1.922	-16.3	108	0.00
66	T	Benzyl Chloride	0.136	0.186	-36.8#	105	0.00
67		sec-Butylbenzene	2.350	2.671	-13.7	108	0.00
68	S	1-Bromo-4-Fluorobenzene	0.792	0.816	-3.0	92	0.00
69		p-Isopropyltoluene	1.916	2.304	-20.3	108	0.00
70		n-Butylbenzene	1.851	2.322	-25.4	108	0.00
71		2-Chlorotoluene	1.426	1.640	-15.0	107	0.00
72	T	4-Ethyltoluene	1.506	1.803	-19.7	106	0.00
73	T	1,3,5-Trimethylbenzene	1.240	1.506	-21.5	106	0.00
74	T	1,2,4-Trimethylbenzene	1.353	1.672	-23.6	109	0.00
75	T	1,3-Dichlorobenzene	0.948	1.085	-14.5	110	0.00
76	T	1,4-Dichlorobenzene	0.928	1.084	-16.8	109	0.00
77	T	1,2-Dichlorobenzene	0.932	1.035	-11.1	110	0.00
78	T	Hexachloro-1,3-Butadiene	0.844	0.836	0.9	106	0.00
79	T	Naphthalene	0.958	1.604	-67.4#	102	0.00
80	T	Naphthalene,2-methyl-	0.326	0.625	-91.7#	82	0.00
81	T	1,2,4-Trichlorobenzene	0.635	0.904	-42.4#	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042796.D
Acq On : 04 Aug 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: Aug 05 00:59:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 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	10.026	-0.3	109	0.00
3		Chlorodifluoromethane	10.000	10.292	-2.9	107	0.00
4		Chloromethane	10.000	10.009	-0.1	109	0.00
5	T	Vinyl Chloride	10.000	9.244	7.6	117	0.00
6	T	Bromomethane	10.000	10.256	-2.6	116	0.00
7		Chloroethane	10.000	9.948	0.5	113	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.966	0.3	109	0.00
9	T	Propene	10.000	10.247	-2.5	106	0.00
10	T	Heptane	10.000	10.942	-9.4	111	0.00
11	T	Trichlorofluoromethane	10.000	10.216	-2.2	112	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	10.072	-0.7	109	0.00
13		Ethanol	10.000	9.208	7.9	93	0.00
14	T	Bromoethene	10.000	10.443	-4.4	112	0.00
15	T	Acetone	10.000	8.187	18.1	111	0.00
16	T	1,3-Butadiene	10.000	9.753	2.5	111	0.00
17		tert-Butyl alcohol	10.000	10.024	-0.2	105	0.00
18	T	1,1-Dichloroethene	10.000	10.013	-0.1	114	0.00
19	T	Isopropyl Alcohol	10.000	9.899	1.0	108	0.00
20	T	Methylene Chloride	10.000	9.066	9.3	115	0.00
21	T	Allyl Chloride	10.000	10.643	-6.4	111	0.00
22	T	trans-1,2-Dichloroethene	10.000	10.234	-2.3	110	0.00
23	T	Vinyl Acetate	10.000	10.966	-9.7	106	0.00
24	T	1,1-Dichloroethane	10.000	10.340	-3.4	111	0.00
25	T	Ethyl Acetate	10.000	10.829	-8.3	110	0.00
26	T	Hexane	10.000	10.571	-5.7	109	0.00
27	T	Carbon Disulfide	10.000	11.094	-10.9	115	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.404	6.0	105	0.00
29	T	Chloroform	10.000	10.520	-5.2	112	0.00
30	T	Cyclohexane	10.000	10.195	-2.0	101	0.00
31	T	cis-1,2-Dichloroethene	10.000	10.164	-1.6	105	0.00
32	T	1,1,1-Trichloroethane	10.000	9.948	0.5	108	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	92	0.00
34	T	2-Butanone	10.000	11.329	-13.3	112	0.00
35	T	Carbon Tetrachloride	10.000	11.082	-10.8	108	0.00
36	T	Benzene	10.000	10.861	-8.6	106	0.00
37	T	1,2-Dichloroethane	10.000	11.022	-10.2	108	0.00
38	T	Trichloroethene	10.000	10.219	-2.2	105	0.00
39	T	1,2-Dichloropropane	10.000	10.828	-8.3	108	0.00
40	T	1,4-Dioxane	10.000	10.142	-1.4	108	0.00
41	T	Tetrahydrofuran	10.000	11.676	-16.8	107	0.00
42	T	Bromodichloromethane	10.000	11.618	-16.2	110	0.00
43		Methyl Methacrylate	10.000	11.594	-15.9	103	0.00
44	T	2,2,4-Trimethylpentane	10.000	11.456	-14.6	110	0.00
45	T	t-1,3-Dichloropropene	10.000	11.524	-15.2	100	0.00
46	T	cis-1,3-Dichloropropene	10.000	11.799	-18.0	103	0.00
47	T	1,1,2-Trichloroethane	10.000	11.078	-10.8	110	0.00
48	T	Dibromochloromethane	10.000	11.954	-19.5	109	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042796.D
Acq On : 04 Aug 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: Aug 05 00:59:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 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	11.932	-19.3	107	0.00
50	T	4-Methyl-2-Pentanone	10.000	11.662	-16.6	110	0.00
51	T	2-Hexanone	10.000	12.258	-22.6	107	0.00
52	T	Tetrachloroethene	10.000	9.686	3.1	103	0.00
53	T	Toluene	10.000	11.278	-12.8	104	0.00
54	T	1,2-Dibromoethane	10.000	11.165	-11.6	105	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56		1,1,1,2-Tetrachloroethane	10.000	11.479	-14.8	111	0.00
57	T	Chlorobenzene	10.000	10.808	-8.1	107	0.00
58	T	Ethyl Benzene	10.000	11.533	-15.3	106	0.00
59	T	m/p-Xylene	20.000	23.649	-18.2	109	0.00
60	T	o-Xylene	10.000	11.935	-19.4	111	0.00
61	T	Styrene	10.000	11.699	-17.0	100	0.00
62		Isopropylbenzene	10.000	11.505	-15.1	107	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	10.647	-6.5	112	0.00
64		n-propylbenzene	10.000	11.553	-15.5	107	0.00
65		tert-Butylbenzene	10.000	11.633	-16.3	108	0.00
66	T	Benzyl Chloride	10.000	13.694	-36.9#	105	0.00
67		sec-Butylbenzene	10.000	11.365	-13.7	108	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.307	-3.1	92	0.00
69		p-Isopropyltoluene	10.000	12.023	-20.2	108	0.00
70		n-Butylbenzene	10.000	12.546	-25.5	108	0.00
71		2-Chlorotoluene	10.000	11.499	-15.0	107	0.00
72	T	4-Ethyltoluene	10.000	11.973	-19.7	106	0.00
73	T	1,3,5-Trimethylbenzene	10.000	12.142	-21.4	106	0.00
74	T	1,2,4-Trimethylbenzene	10.000	12.358	-23.6	109	0.00
75	T	1,3-Dichlorobenzene	10.000	11.441	-14.4	110	0.00
76	T	1,4-Dichlorobenzene	10.000	11.679	-16.8	109	0.00
77	T	1,2-Dichlorobenzene	10.000	11.104	-11.0	110	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	9.905	1.0	106	0.00
79	T	Naphthalene	10.000	10.889	-8.9	102	0.00
80	T	Naphthalene,2-methyl-	10.000	8.684	13.2	82	0.00
81	T	1,2,4-Trichlorobenzene	10.000	10.915	-9.1	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

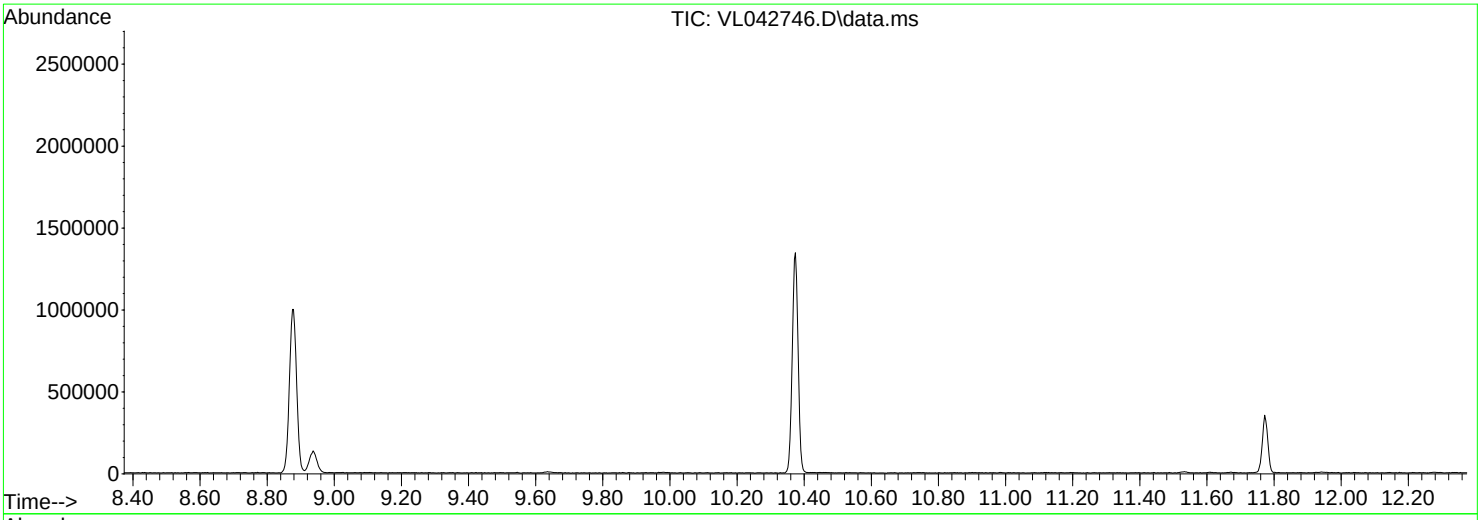
BFB

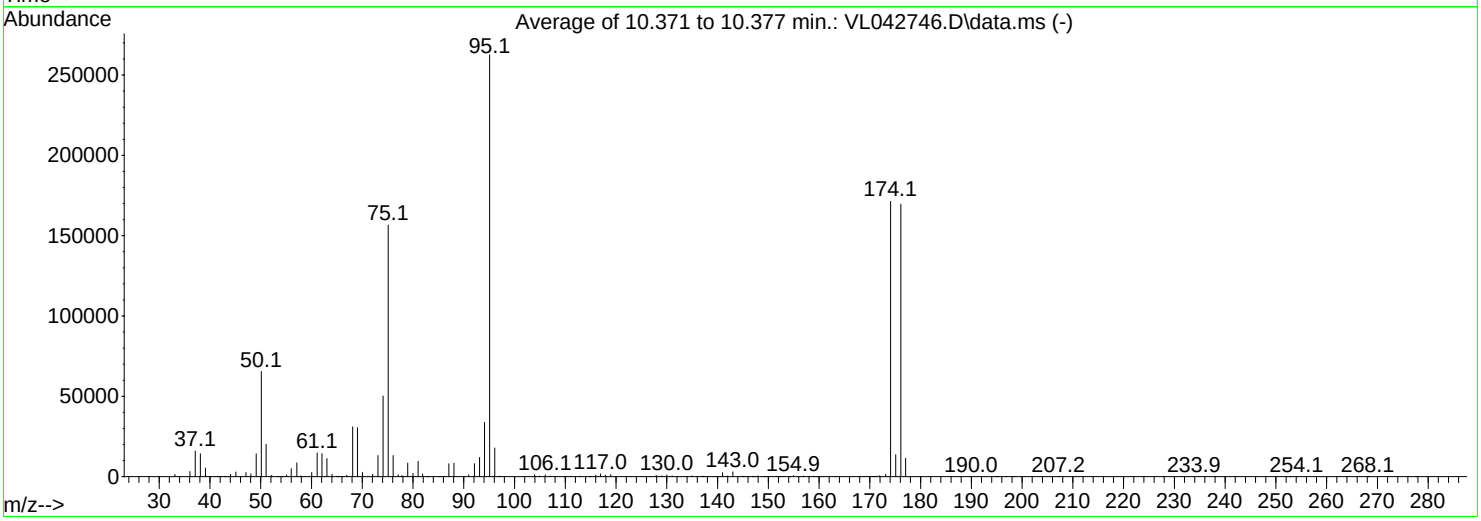
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042746.D
Acq On : 23 Jul 2025 08:00
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Thu Jul 24 05:24:41 2025





AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.9	65392	PASS
75	95	30	66	59.7	156629	PASS
95	95	100	100	100.0	262571	PASS
96	95	5	9	6.8	17820	PASS
173	174	0.00	2	0.8	1428	PASS
174	95	50	120	65.3	171349	PASS
175	174	4	9	8.0	13693	PASS
176	174	93	101	99.0	169621	PASS
177	176	5	9	6.7	11431	PASS

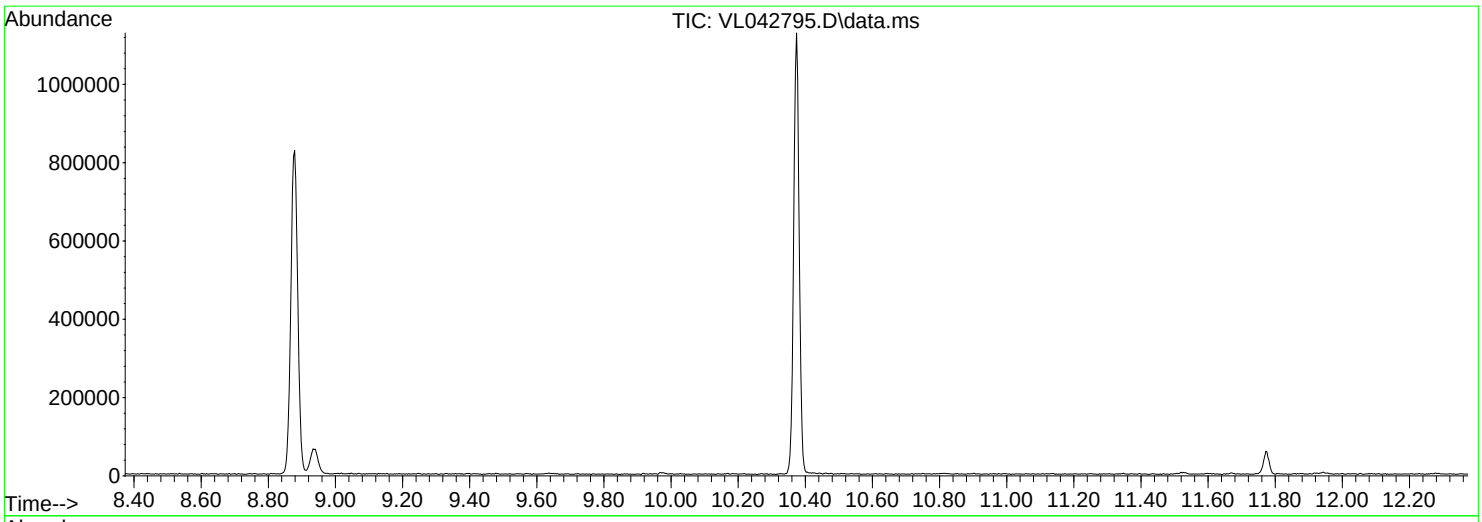
BFB

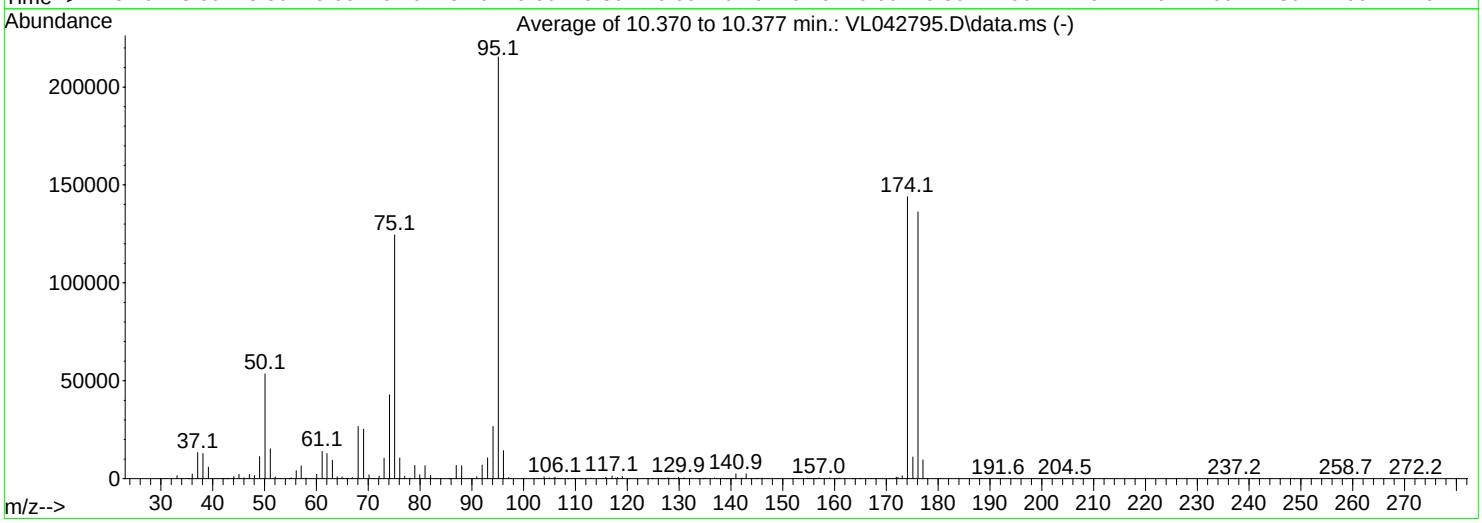
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042795.D
Acq On : 04 Aug 2025 07:40
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Thu Jul 24 05:24:41 2025





AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3147

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.8	53528	PASS
75	95	30	66	57.8	124445	PASS
95	95	100	100	100.0	215424	PASS
96	95	5	9	6.6	14276	PASS
173	174	0.00	2	1.0	1500	PASS
174	95	50	120	66.8	143979	PASS
175	174	4	9	7.7	11033	PASS
176	174	93	101	94.6	136259	PASS
177	176	5	9	7.0	9581	PASS

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	
Client Sample ID:	VL0804ABL01	SDG No.:	Q2750
Lab Sample ID:	VL0804ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042797.D	1		08/04/25 10:15	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.11	0.54	U	0.54	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.17	0.96	U	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	0.18	0.43	U	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	0.080	0.25	U	0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	0.23	0.80	U	0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.060	0.18	U	0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.030	0.19	U	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.10	0.49	U	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.080	0.26	U	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.16	0.60	U	0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	
Client Sample ID:	VL0804ABL01	SDG No.:	Q2750
Lab Sample ID:	VL0804ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042797.D	1		08/04/25 10:15	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	U	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	0.16	0.56	U	0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.70			70 (65) - 130 (135)	97%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	155000		2.79			
540-36-3	1,4-Difluorobenzene	421000		3.959			
3114-55-4	Chlorobenzene-d5	368000		8.885			

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	
Client Sample ID:	VL0804ABL01	SDG No.:	Q2750
Lab Sample ID:	VL0804ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042797.D	1		08/04/25 10:15	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042797.D
Acq On : 04 Aug 2025 10:15
Operator : SY/MD
Sample : VL0804ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABL01

Quant Time: Aug 05 01:00:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

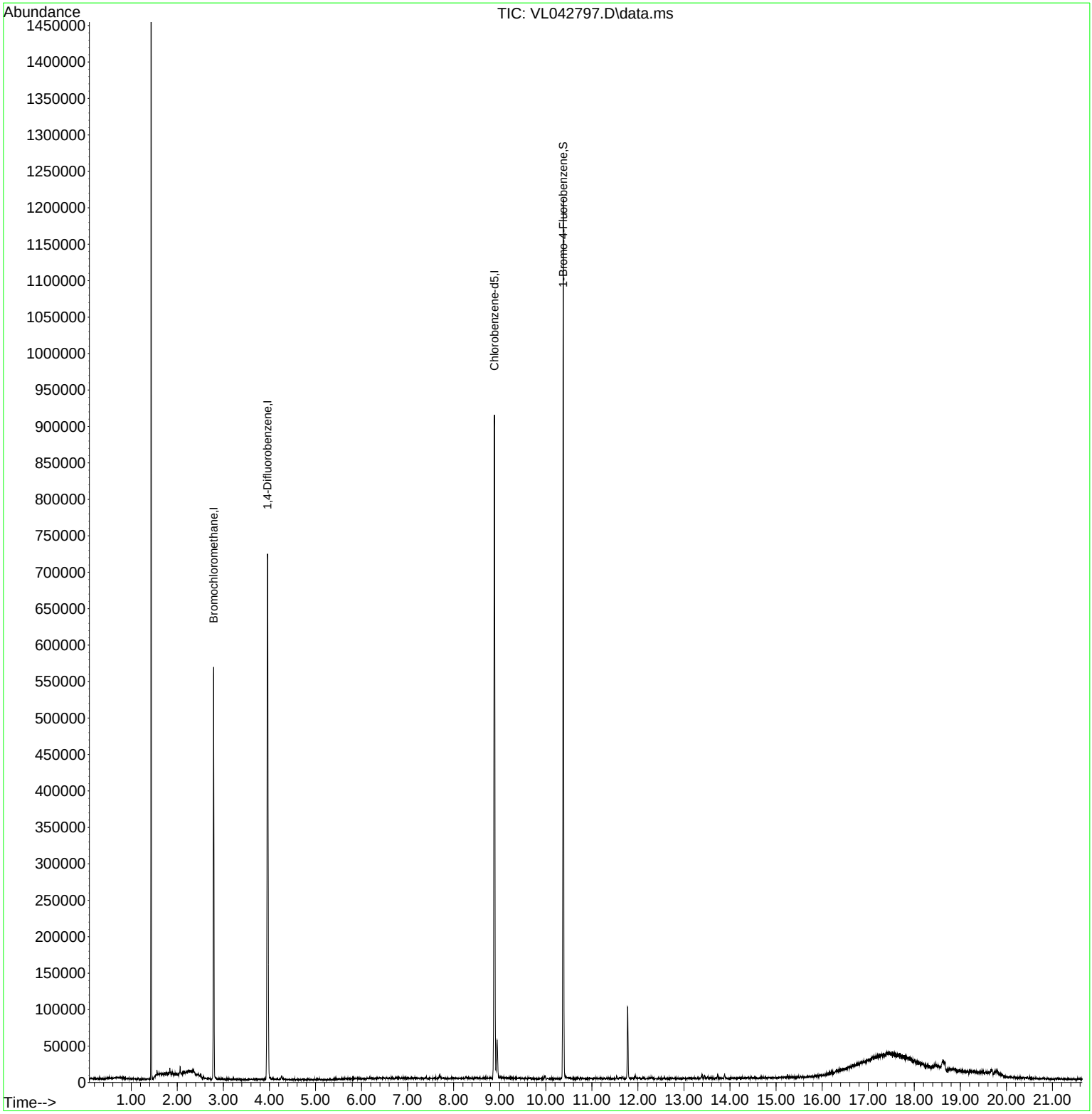
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	154751	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	421335	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	368498	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	282525	9.681	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.800%			
Target Compounds						Qvalue

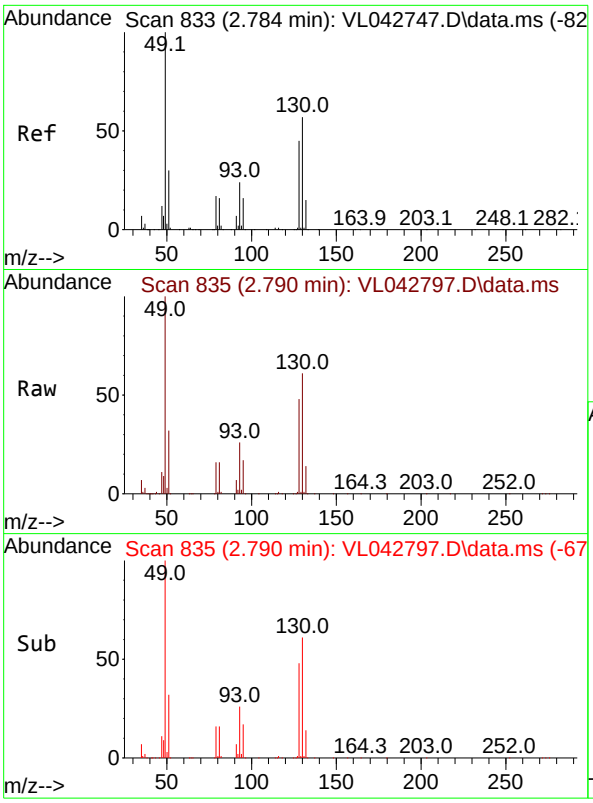
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042797.D
Acq On : 04 Aug 2025 10:15
Operator : SY/MD
Sample : VL0804ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABL01

Quant Time: Aug 05 01:00:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



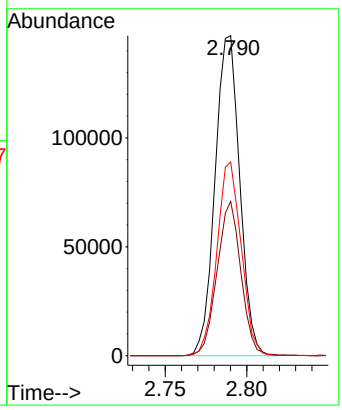


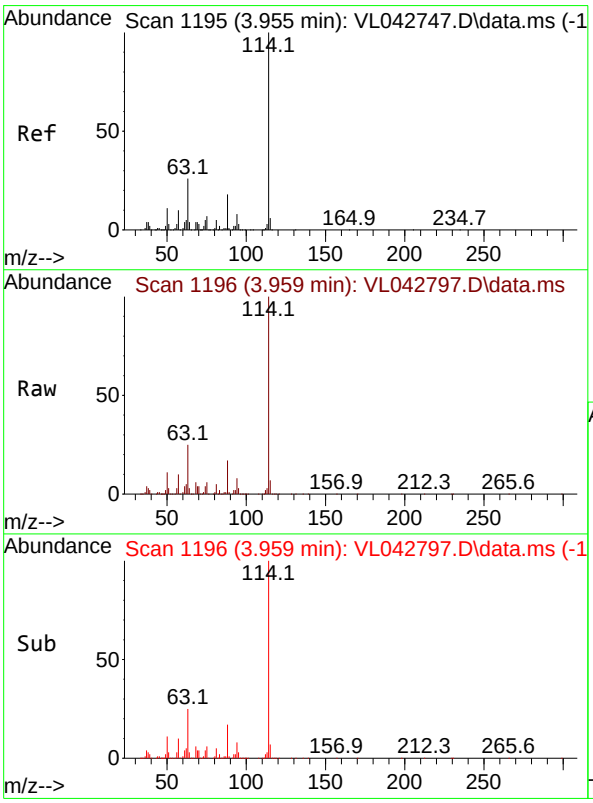
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042797.D
Acq: 04 Aug 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABL01

Tgt Ion: 49 Resp: 154751

Ion	Ratio	Lower	Upper
49	100		
128	46.5	23.6	71.0
130	59.8	30.3	90.8

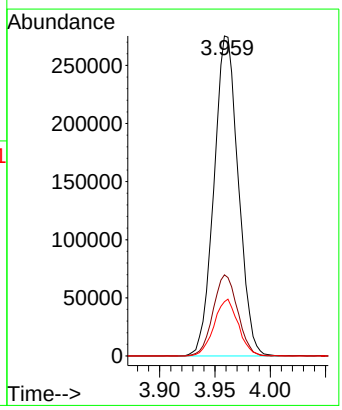


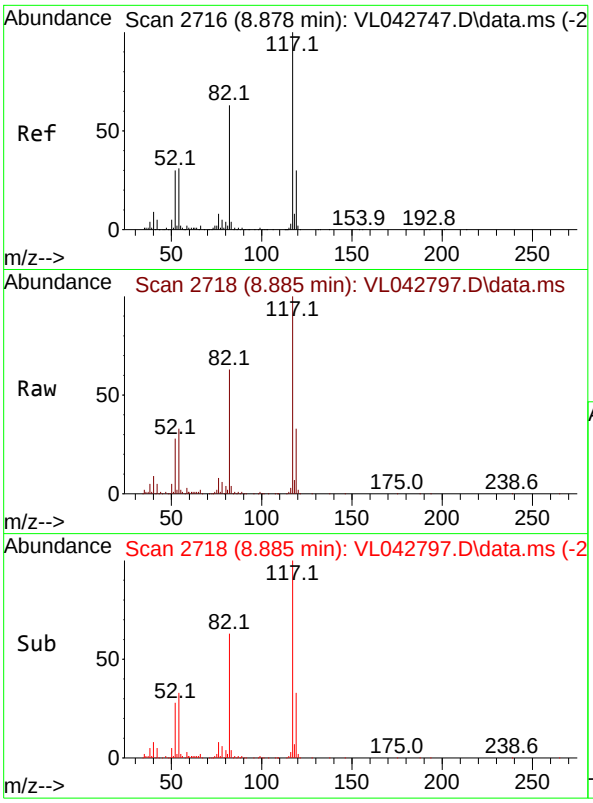


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042797.D
Acq: 04 Aug 2025 10:15

Tgt Ion:114 Resp: 421335

Ion	Ratio	Lower	Upper
114	100		
63	25.6	20.5	30.7
88	17.6	14.0	21.0



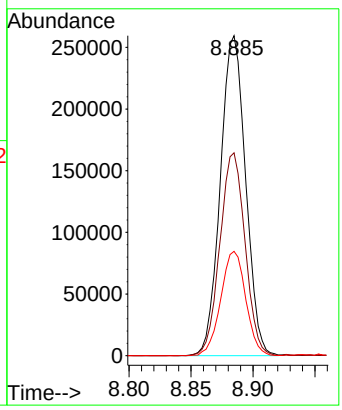


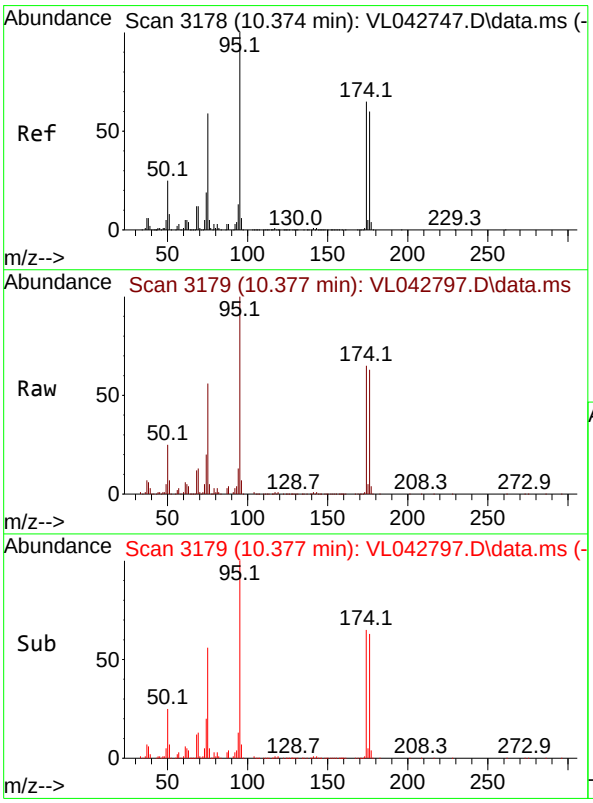
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042797.D
Acq: 04 Aug 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABL01

Tgt Ion:117 Resp: 368498

Ion	Ratio	Lower	Upper
117	100		
82	63.2	53.3	79.9
119	32.4	25.8	38.6

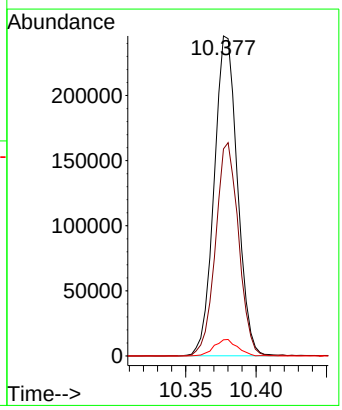




#68
1-Bromo-4-Fluorobenzene
Concen: 9.681 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042797.D
Acq: 04 Aug 2025 10:15

Tgt Ion: 95 Resp: 282525

Ion	Ratio	Lower	Upper
95	100		
174	66.3	53.8	80.6
175	5.2	4.0	6.0



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042797.D
Acq On : 04 Aug 2025 10:15
Operator : SY/MD
Sample : VL0804ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042797.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.431	411	415	420	rBV	2142443	1303400	94.28%	22.006%
2	2.790	822	835	844	rBV	565936	598012	43.26%	10.097%
3	3.959	1183	1196	1209	rBV	721388	1125632	81.42%	19.005%
4	8.885	2706	2718	2729	rBV	911408	1315555	95.16%	22.211%
5	8.943	2729	2736	2744	rVB3	50065	80071	5.79%	1.352%
6	10.380	3170	3180	3191	rBV	1206355	1382417	100.00%	23.340%
7	11.775	3601	3611	3622	rBV2	98264	117815	8.52%	1.989%

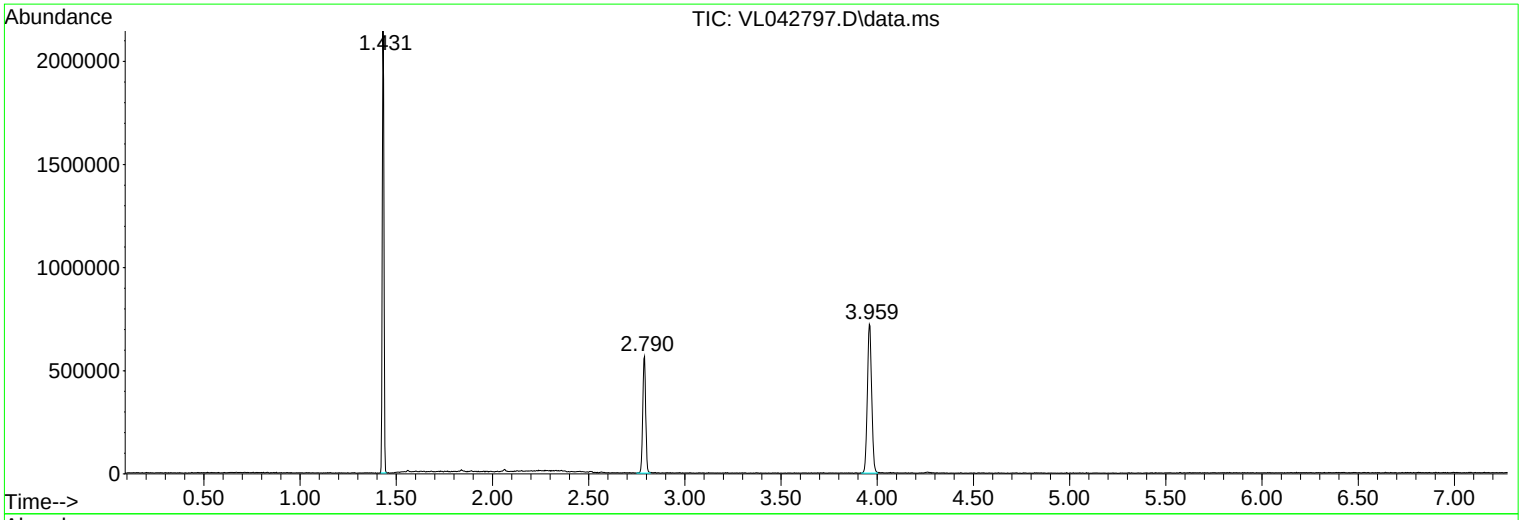
Sum of corrected areas: 5922902

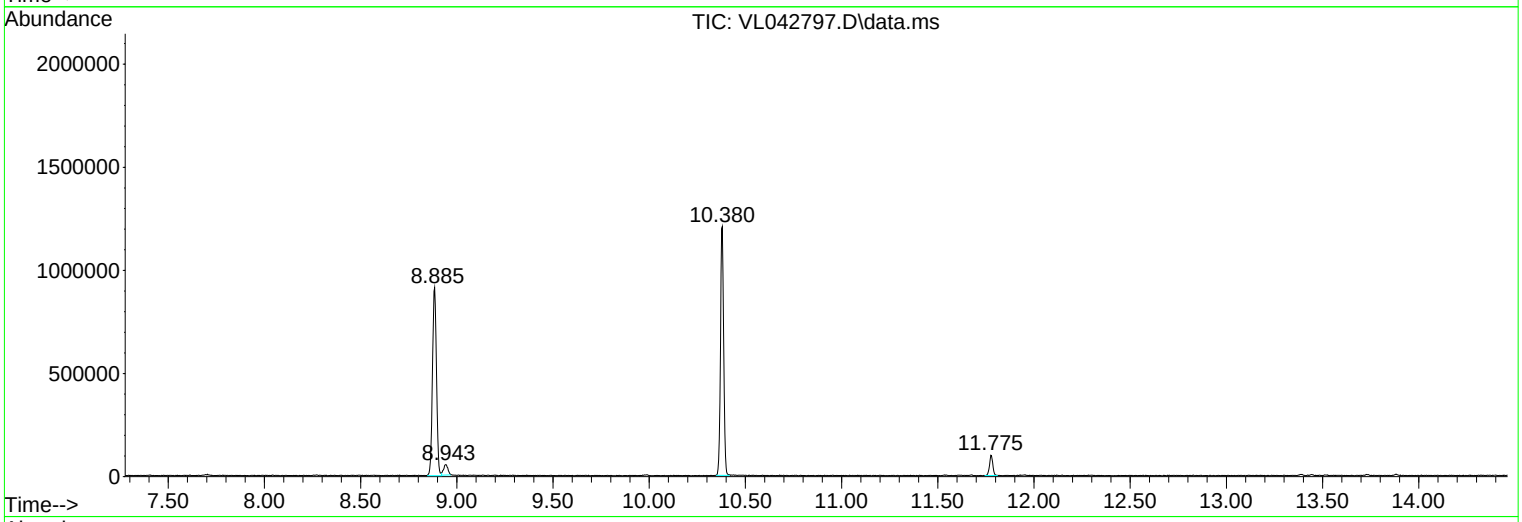
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042797.D
Acq On : 04 Aug 2025 10:15
Operator : SY/MD
Sample : VL0804ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

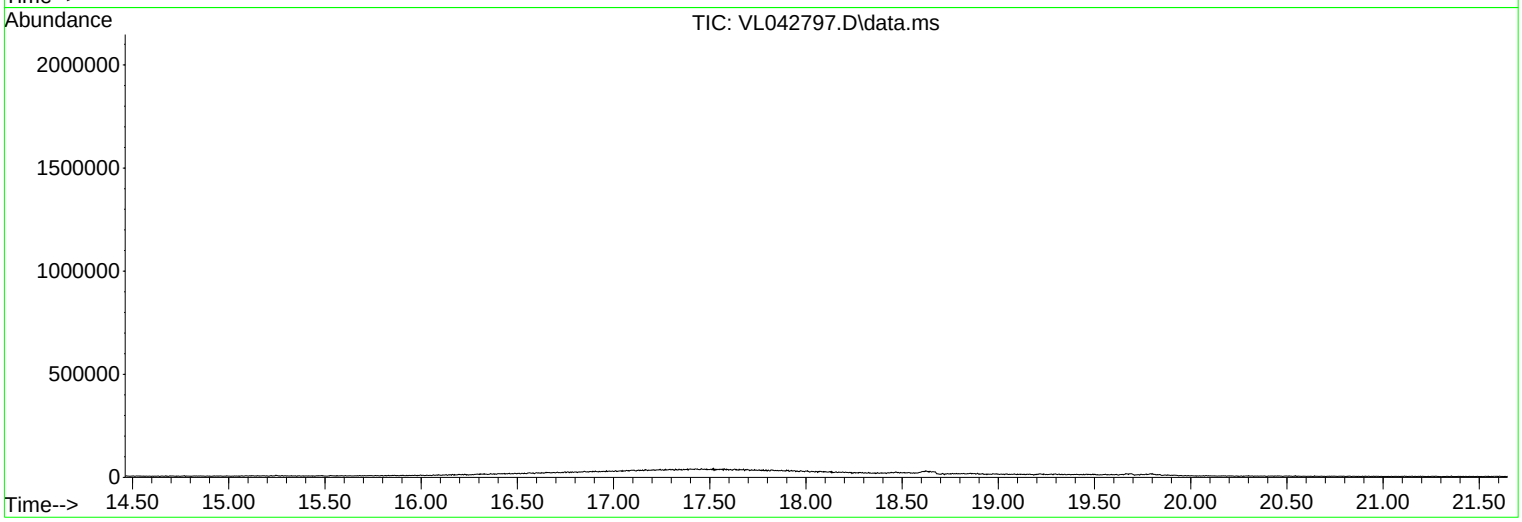
Instrument :
MSVOA_L
ClientSampleId :
VL0804ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042797.D
Acq On : 04 Aug 2025 10:15
Operator : SY/MD
Sample : VL0804ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042797.D
Acq On : 04 Aug 2025 10:15
Operator : SY/MD
Sample : VL0804ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	
Client Sample ID:	VL0804ABS01	SDG No.:	Q2750
Lab Sample ID:	VL0804ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042798.D	1		08/04/25 10:58	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.4	51.4		0.54	2.47	ug/m3
74-87-3	Chloromethane	10.2	21.1		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	9.00	23.0		0.080	0.080	ug/m3
74-83-9	Bromomethane	10.4	40.4		0.31	1.94	ug/m3
75-00-3	Chloroethane	9.60	25.3		0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	11.6	34.2		0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	10.1	56.8		0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	10.2	78.2		1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	10.1	70.6		1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	9.80	29.7		0.49	1.52	ug/m3
142-82-5	Heptane	11.0	45.1		0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.90	39.3		0.59	1.98	ug/m3
67-64-1	Acetone	8.30	19.7		0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	11.0	34.3		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.00	32.5		0.83	1.80	ug/m3
75-09-2	Methylene Chloride	9.30	32.3		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	10.3	40.8		0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.3	41.7		0.53	2.02	ug/m3
110-82-7	Cyclohexane	10.5	36.1		0.76	1.72	ug/m3
78-93-3	2-Butanone	10.9	32.1		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	11.2	70.5		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.5	41.6		0.40	1.98	ug/m3
67-66-3	Chloroform	10.8	52.7		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	10.1	55.1		0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	11.4	53.3		0.65	2.34	ug/m3
71-43-2	Benzene	11.0	35.1		0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	10.9	44.1		0.36	2.02	ug/m3
79-01-6	Trichloroethene	10.2	54.8		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	10.8	49.9		0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	11.5	77.0		0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	11.6	47.5		0.41	2.05	ug/m3
108-88-3	Toluene	11.2	42.2		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	11.6	52.7		0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	11.5	52.2		0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.9	59.5		0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	
Client Sample ID:	VL0804ABS01	SDG No.:	Q2750
Lab Sample ID:	VL0804ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042798.D	1		08/04/25 10:58	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	11.6	98.8		0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	11.0	84.5		0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	9.70	65.8		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.9	50.2		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	11.5	50.0		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	23.5	102		1.78	4.34	ug/m3
95-47-6	o-Xylene	11.6	50.4		0.91	2.17	ug/m3
100-42-5	Styrene	11.7	49.8		0.68	2.13	ug/m3
75-25-2	Bromoform	11.7	121		0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	10.7	73.5		0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	11.4	59.0		0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	12.1	59.5		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	12.3	60.5		0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	11.5	69.1		0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	11.6	69.7		0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	11.2	67.3		0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	11.1	82.4		1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9.90	106		1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	10.0	22.1		0.11	1.11	ug/m3
91-20-3	Naphthalene	10.8	56.6		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	12.1	59.5		1.03	2.46	ug/m3
110-54-3	Hexane	10.6	37.4		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	10.7	33.5		0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	10.7	38.6		0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	11.5	47.1		0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			70 (65) - 130 (135)	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	153000	2.787				
540-36-3	1,4-Difluorobenzene	424000	3.955				
3114-55-4	Chlorobenzene-d5	380000	8.882				

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	
Client Sample ID:	VL0804ABS01	SDG No.:	Q2750
Lab Sample ID:	VL0804ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042798.D	1		08/04/25 10:58	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042798.D
Acq On : 04 Aug 2025 10:58
Operator : SY/MD
Sample : VL0804ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	152949	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	424278	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	379714	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	306318	10.187	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	210012	10.385	ppbv	97
3) Chlorodifluoromethane	1.476	51	276371	10.491	ppbv	100
4) Chloromethane	1.531	50	83517	10.208	ppbv	94
5) Vinyl Chloride	1.580	62	72902	9.019	ppbv	98
6) Bromomethane	1.667	94	32559	10.419	ppbv	93
7) Chloroethane	1.703	64	30002	9.606	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	168635	10.140	ppbv	99
9) Propene	1.483	41	96098	10.037	ppbv	97
10) Heptane	4.978	43	284663	11.027	ppbv	98
11) Trichlorofluoromethane	1.877	101	210535	10.100	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	162121	10.235	ppbv	99
13) Ethanol	1.719	45	7676	9.859	ppbv	94
14) Bromoethene	1.780	108	57843	10.313	ppbv	99
15) Acetone	1.832	43	175468	8.308	ppbv	99
16) 1,3-Butadiene	1.609	39	90012	9.992	ppbv	98
17) tert-Butyl alcohol	2.036	59	186238	9.777	ppbv	98
18) 1,1-Dichloroethene	2.033	96	70538	9.855	ppbv	92
19) Isopropyl Alcohol	1.884	45	111099	9.899	ppbv	99
20) Methylene Chloride	2.059	84	62223	9.349	ppbv	96
21) Allyl Chloride	2.094	41	138811	10.664	ppbv	96
22) trans-1,2-Dichloroethene	2.340	96	79678	10.348	ppbv	91
23) Vinyl Acetate	2.460	43	275096	10.744	ppbv	99
24) 1,1-Dichloroethane	2.408	63	162025	10.252	ppbv	99
25) Ethyl Acetate	2.832	43	509939	10.908	ppbv	100
26) Hexane	2.823	57	217430	10.603	ppbv	98
27) Carbon Disulfide	2.149	76	193468	11.020	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	87317	9.013	ppbv	100
29) Chloroform	2.845	83	341292	10.770	ppbv	100
30) Cyclohexane	3.855	84	182892	10.516	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	220340	10.456	ppbv	99
32) 1,1,1-Trichloroethane	3.363	97	332840	10.083	ppbv	99
34) 2-Butanone	2.554	43	328262	10.922	ppbv	99
35) Carbon Tetrachloride	3.761	117	352113	11.173	ppbv	99
36) Benzene	3.654	78	442780	11.012	ppbv	97
37) 1,2-Dichloroethane	3.214	62	263215	10.867	ppbv	100
38) Trichloroethene	4.544	130	196304	10.162	ppbv	98
39) 1,2-Dichloropropane	4.311	63	160594	10.820	ppbv	98
40) 1,4-Dioxane	4.577	88	74021	10.699	ppbv #	96
41) Tetrahydrofuran	3.049	42	177182	11.586	ppbv	99
42) Bromodichloromethane	4.486	83	363538	11.524	ppbv	97
43) Methyl Methacrylate	4.875	69	164875	11.536	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	747668	11.408	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	186189	11.617	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042798.D
Acq On : 04 Aug 2025 10:58
Operator : SY/MD
Sample : VL0804ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	233634	11.503	ppbv	97
47) 1,1,2-Trichloroethane	6.580	97	172191m	10.883	ppbv	
48) Dibromochloromethane	7.383	129	291861	11.619	ppbv	99
49) Bromoform	9.484	173	256208	11.698	ppbv	97
50) 4-Methyl-2-Pentanone	5.745	43	449115	11.601	ppbv	98
51) 2-Hexanone	7.431	43	361190	12.346	ppbv #	97
52) Tetrachloroethene	8.221	164	161678	9.700	ppbv	96
53) Toluene	6.930	91	483690	11.202	ppbv	99
54) 1,2-Dibromoethane	7.648	107	245100	10.964	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.924	131	223105	11.301	ppbv	99
57) Chlorobenzene	8.920	112	399269	10.865	ppbv	97
58) Ethyl Benzene	9.354	91	691812	11.537	ppbv	97
59) m/p-Xylene	9.548	91	1124811m	23.471	ppbv	
60) o-Xylene	9.963	91	556987	11.631	ppbv	100
61) Styrene	9.869	104	236466	11.739	ppbv	99
62) Isopropylbenzene	10.539	105	810117	11.469	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	328751	10.693	ppbv	99
64) n-propylbenzene	10.989	120	218340	11.857	ppbv	98
65) tert-Butylbenzene	11.529	119	733198	11.686	ppbv	100
66) Benzyl Chloride	11.613	91	71791	13.938	ppbv	99
67) sec-Butylbenzene	11.765	105	1022370	11.457	ppbv	100
69) p-Isopropyltoluene	11.924	119	859339	11.810	ppbv	100
70) n-Butylbenzene	12.280	91	882919	12.562	ppbv	100
71) 2-Chlorotoluene	10.898	91	616427	11.381	ppbv	100
72) 4-Ethyltoluene	11.124	105	690989	12.083	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	570034	12.106	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	629983	12.264	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	415697	11.543	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	408005	11.578	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	395047	11.161	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	315657	9.853	ppbv	99
79) Naphthalene	13.510	128	605271	10.821	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	236391	8.652	ppbv	97
81) 1,2,4-Trichlorobenzene	13.439	180	347712	11.052	ppbv	99

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

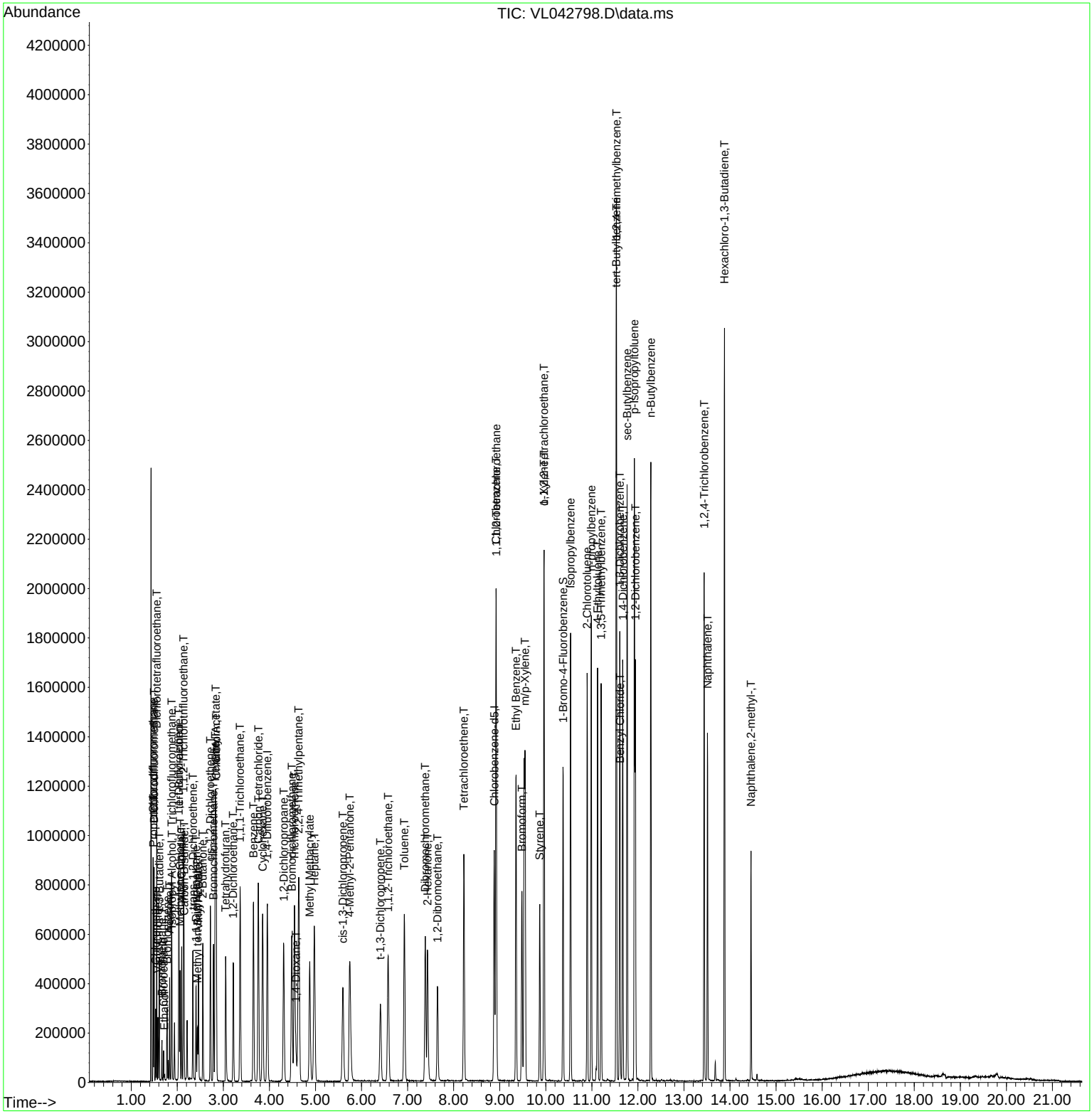
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042798.D
Acq On : 04 Aug 2025 10:58
Operator : SY/MD
Sample : VL0804ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

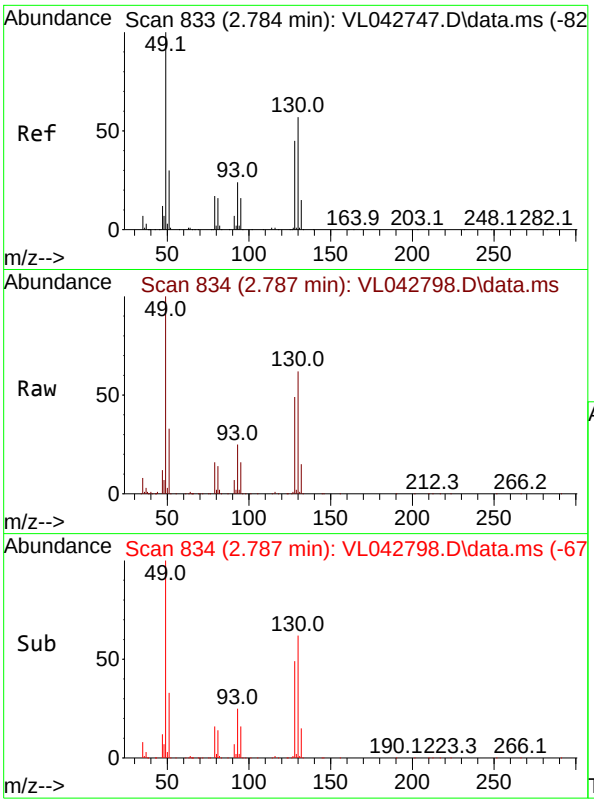
Quant Time: Aug 05 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

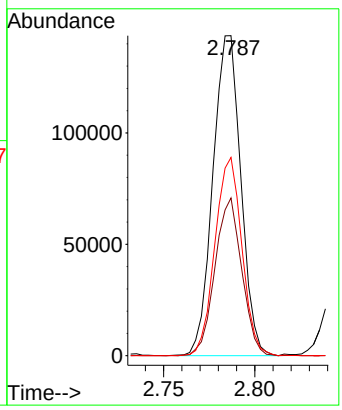




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 49 Resp: 15294

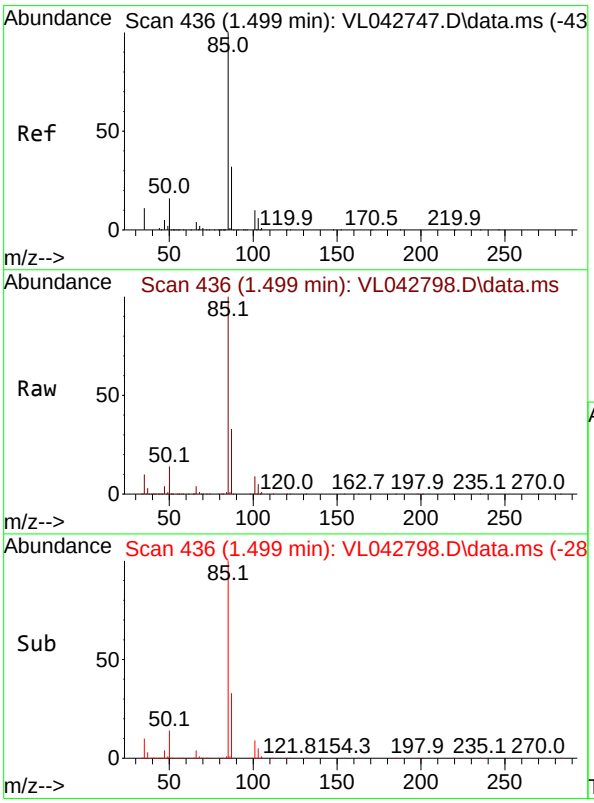
Ion	Ratio	Lower	Upper
49	100		
128	47.2	23.6	71.0
130	59.8	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

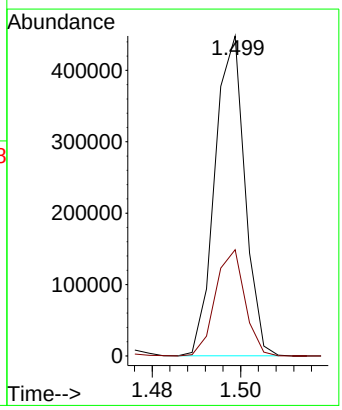
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

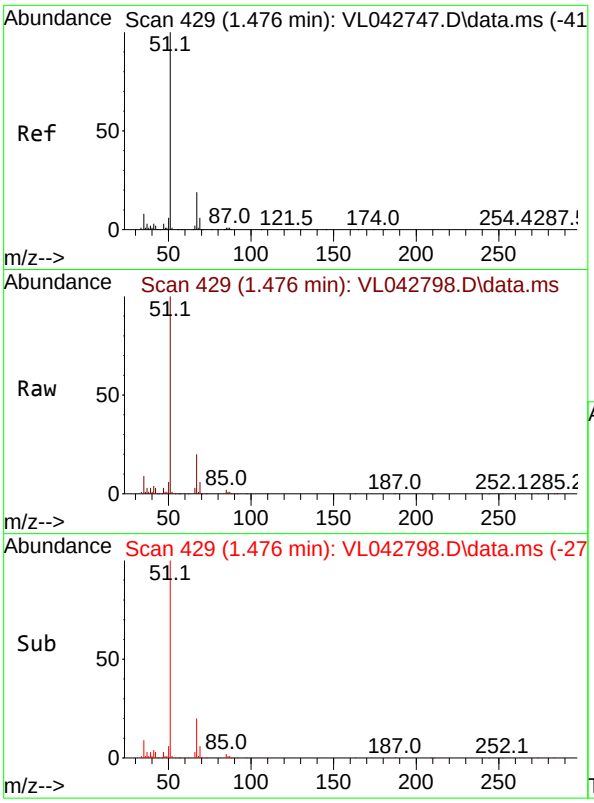


#2
Dichlorodifluoromethane
Concen: 10.385 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 85 Resp: 210012

Ion	Ratio	Lower	Upper
85	100		
87	33.2	25.4	38.2

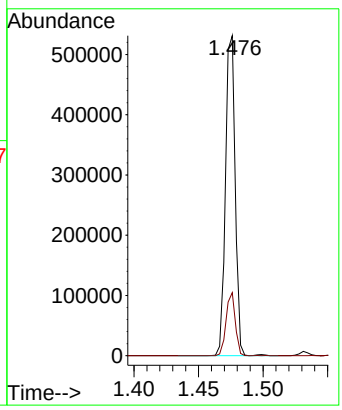




#3
Chlorodifluoromethane
Concen: 10.491 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 51 Resp: 27637

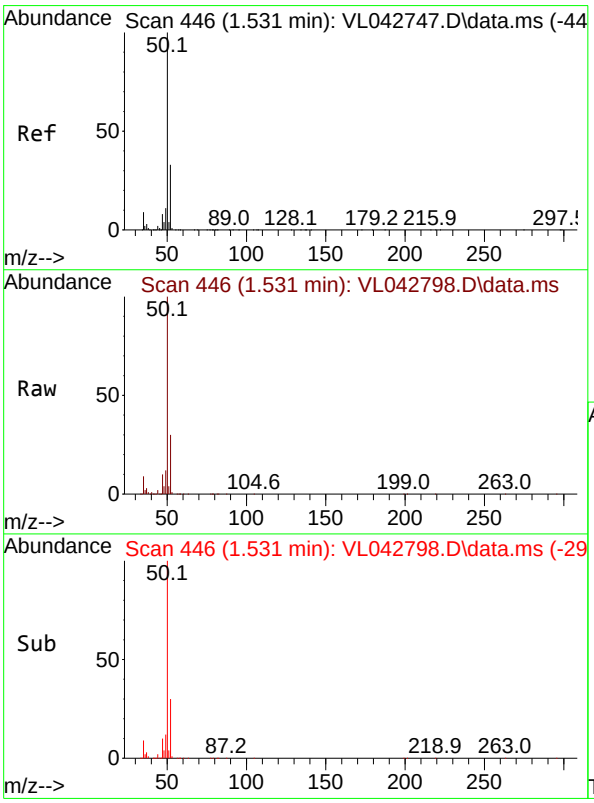
Ion	Ratio	Lower	Upper
51	100		
67	18.7	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

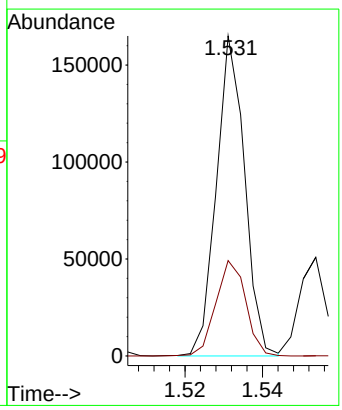
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

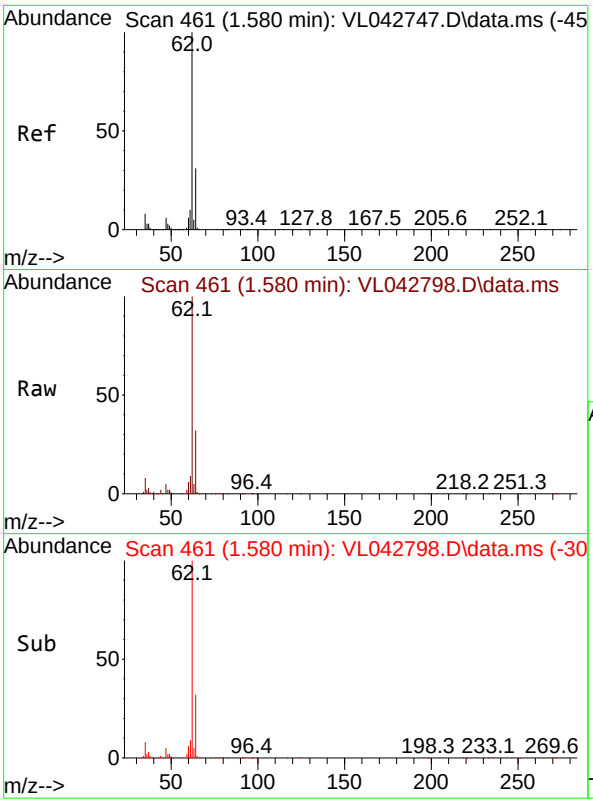


#4
Chloromethane
Concen: 10.208 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 50 Resp: 83517

Ion	Ratio	Lower	Upper
50	100		
52	29.7	26.6	40.0

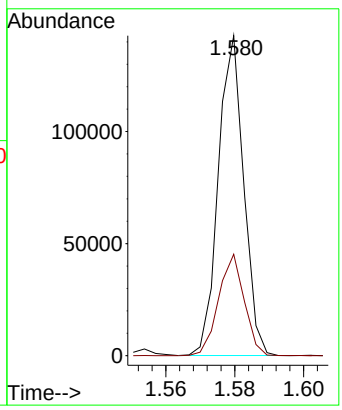




#5
Vinyl Chloride
Concen: 9.019 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 62 Resp: 7290

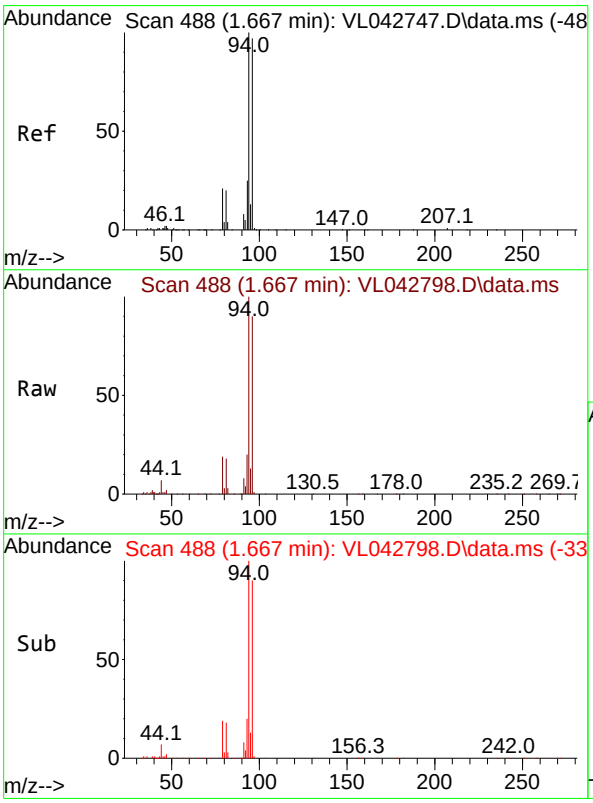
Ion	Ratio	Lower	Upper
62	100		
64	31.7	24.5	36.7



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

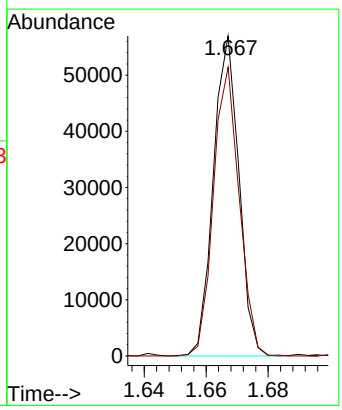
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

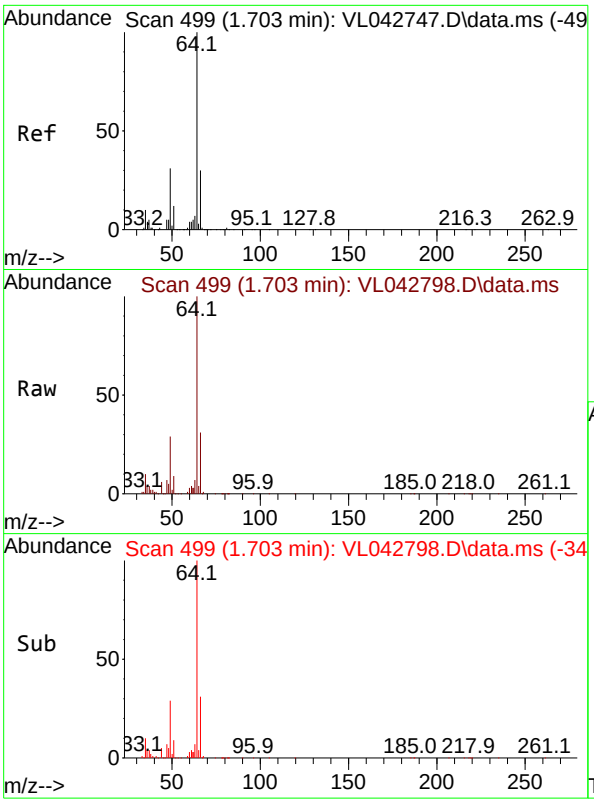


#6
Bromomethane
Concen: 10.419 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 94 Resp: 32559

Ion	Ratio	Lower	Upper
94	100		
96	90.1	77.6	116.4

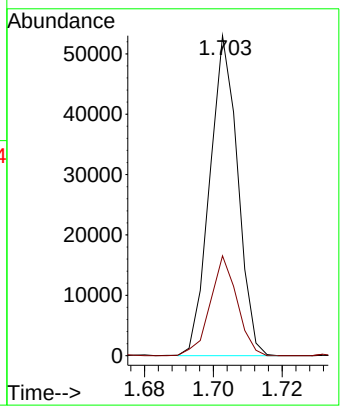




#7
Chloroethane
Concen: 9.606 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 64 Resp: 3000

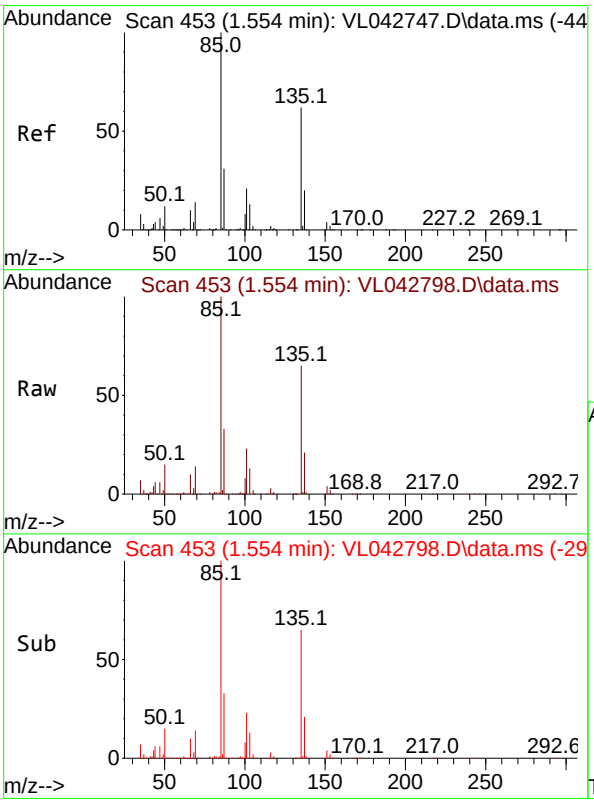
Ion	Ratio	Lower	Upper
64	100		
66	31.2	24.1	36.1



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

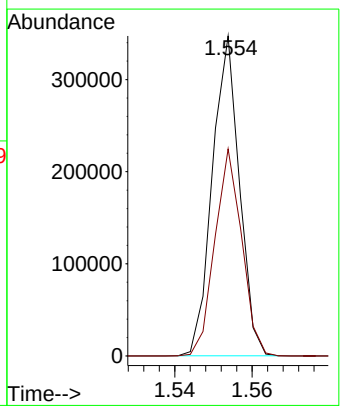
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

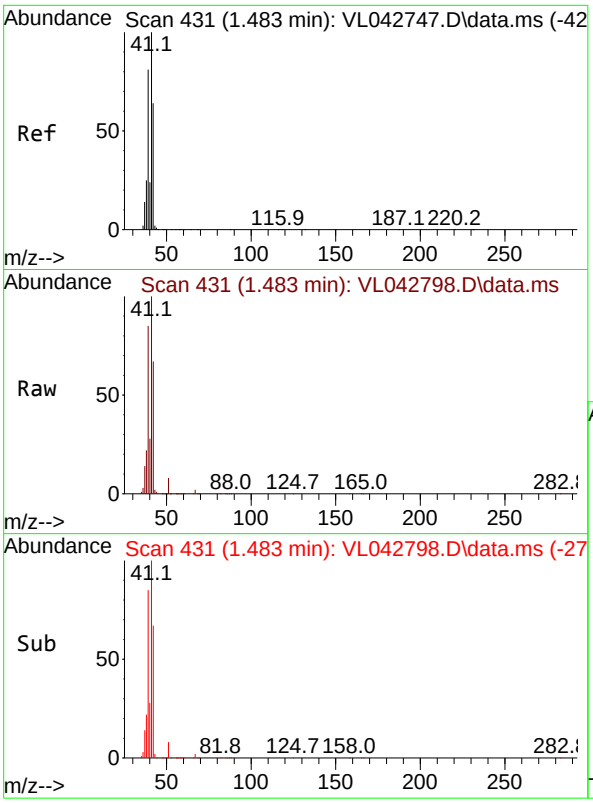


#8
Dichlorotetrafluoroethane
Concen: 10.140 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 85 Resp: 168635

Ion	Ratio	Lower	Upper
85	100		
135	64.4	50.6	76.0

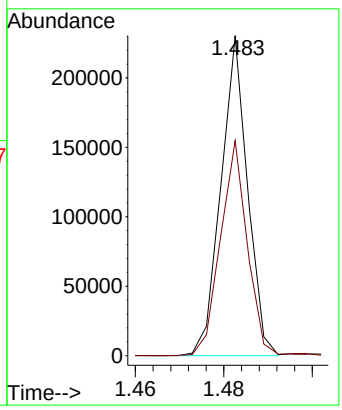




#9
Propene
Concen: 10.037 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 41 Resp: 9609

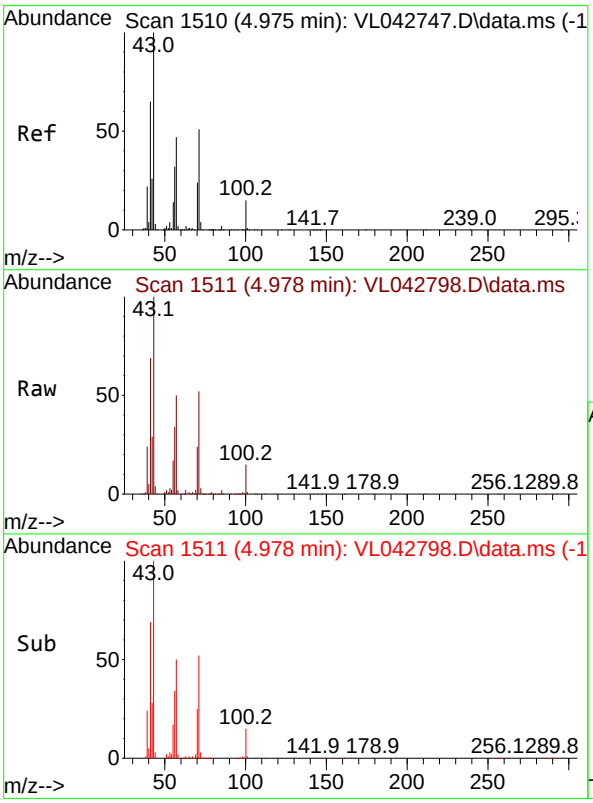
Ion	Ratio	Lower	Upper
41	100		
42	68.5	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

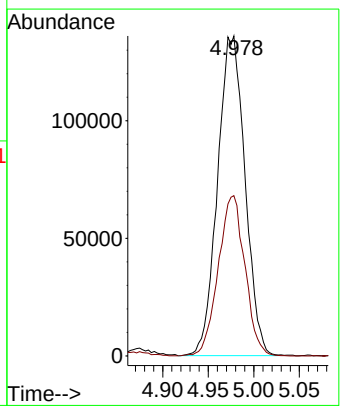
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

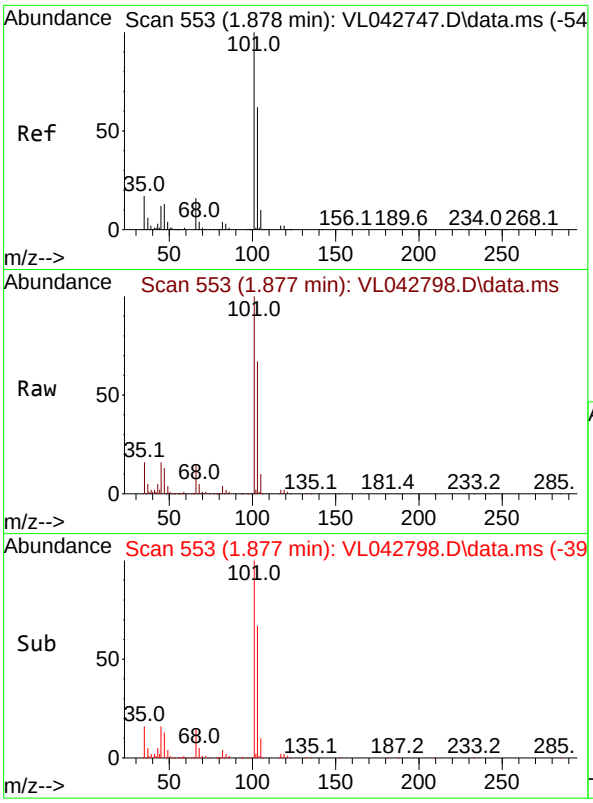


#10
Heptane
Concen: 11.027 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 43 Resp: 284663

Ion	Ratio	Lower	Upper
43	100		
57	48.8	39.9	59.9





#11
Trichlorofluoromethane
Concen: 10.100 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

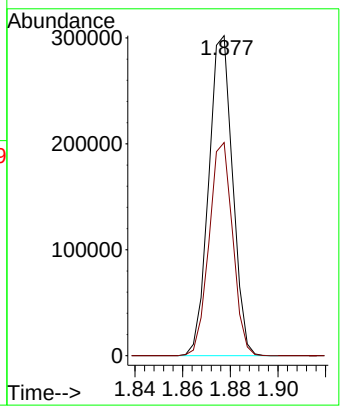
Tgt Ion:101 Resp: 21053

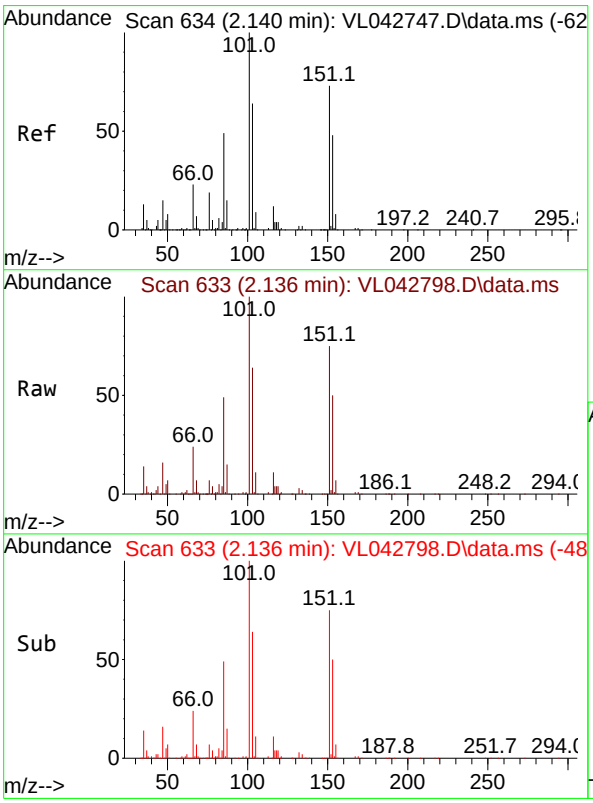
Ion	Ratio	Lower	Upper
101	100		
103	66.6	49.6	74.4

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

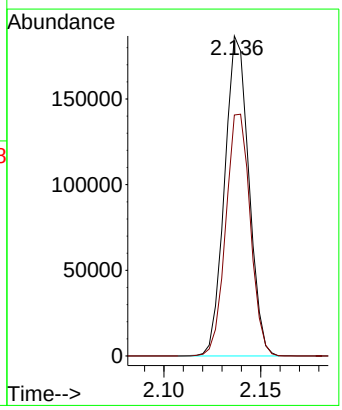


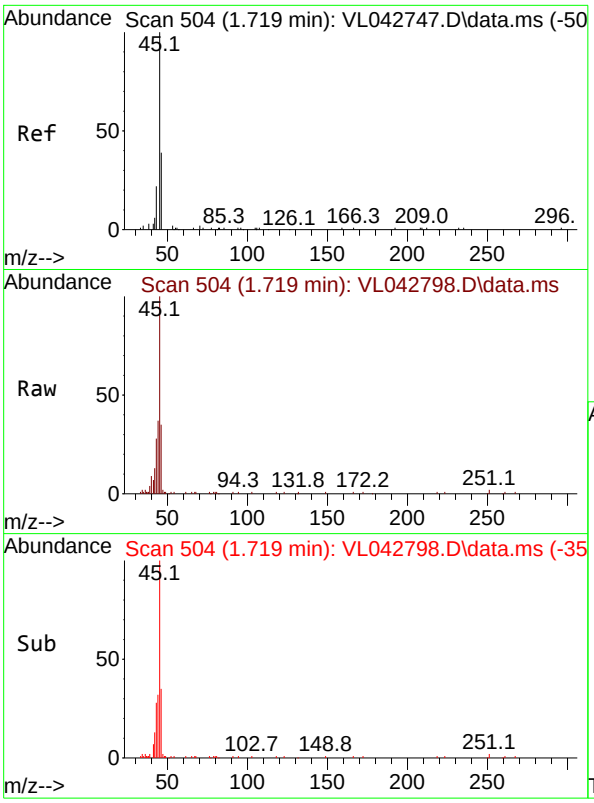


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.235 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:101 Resp: 162121

Ion	Ratio	Lower	Upper
101	100		
151	76.6	60.5	90.7

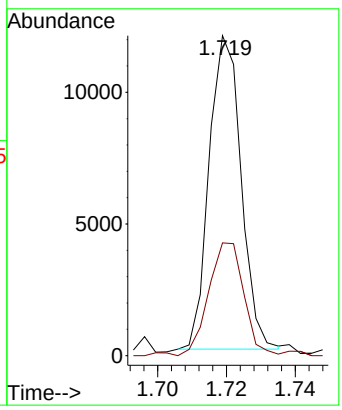




#13
Ethanol
Concen: 9.859 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 45 Resp: 767(

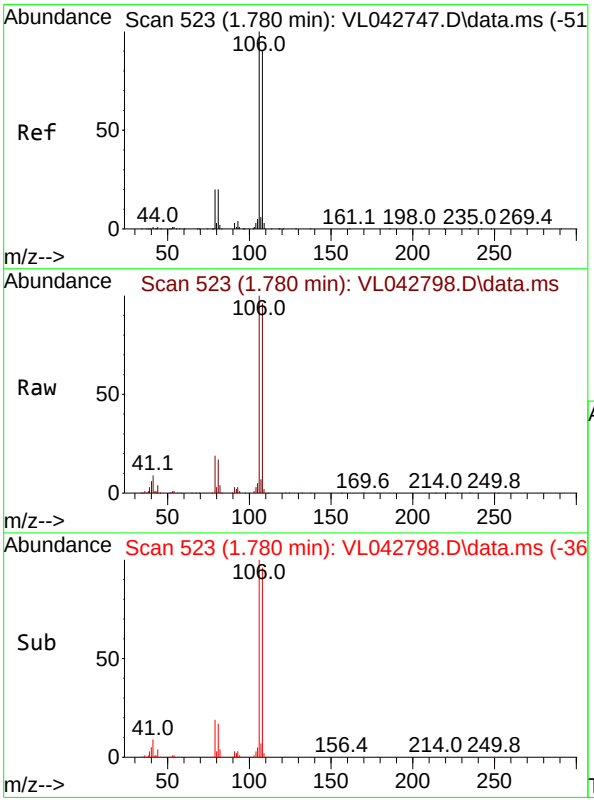
Ion	Ratio	Lower	Upper
45	100		
46	40.9	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

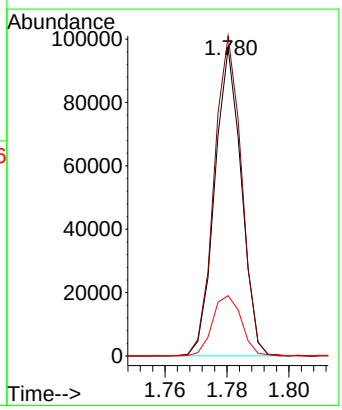
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

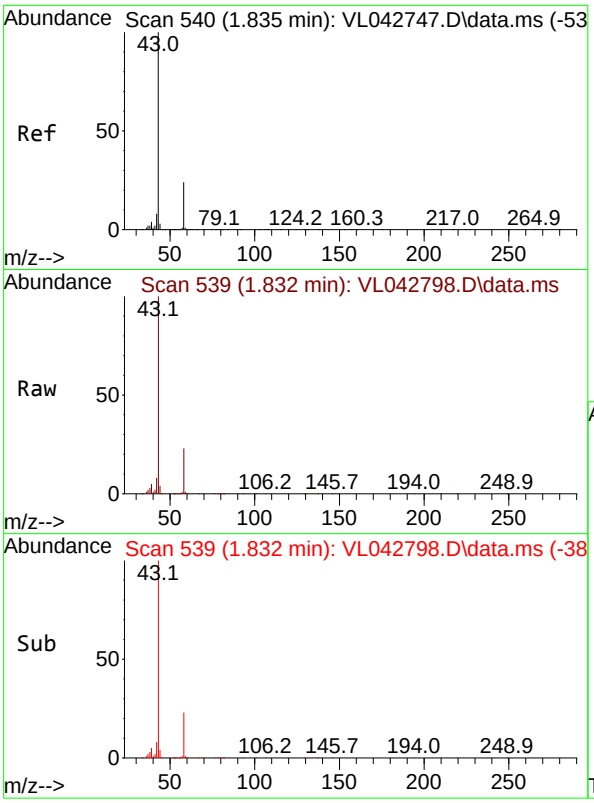


#14
Bromoethene
Concen: 10.313 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:108 Resp: 57843

Ion	Ratio	Lower	Upper
108	100		
106	107.0	84.7	127.1
79	21.9	17.4	26.2

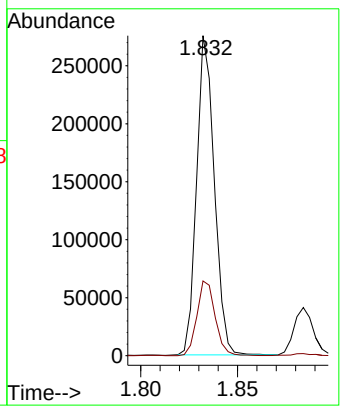




#15
Acetone
Concen: 8.308 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 43 Resp: 17546

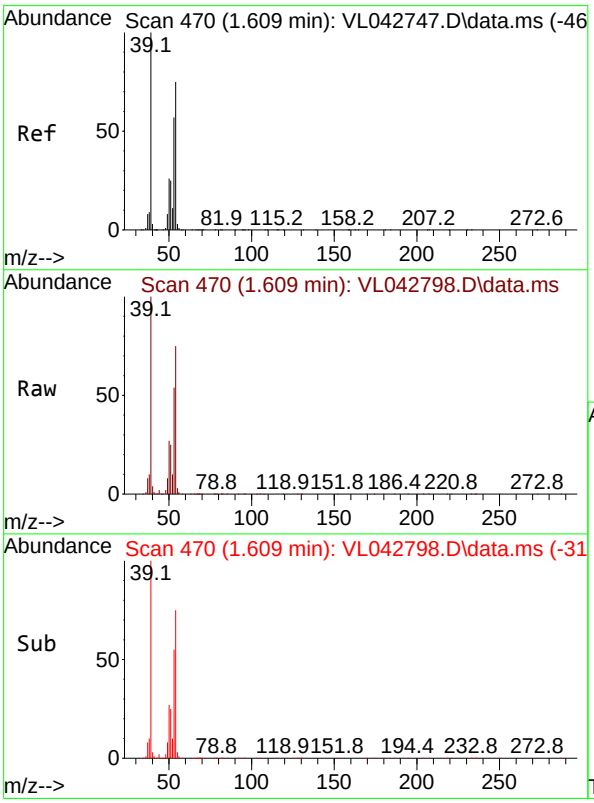
Ion	Ratio	Lower	Upper
43	100		
58	24.2	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

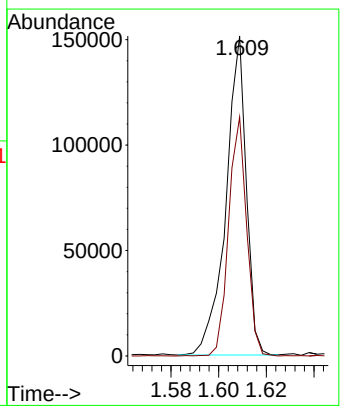
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

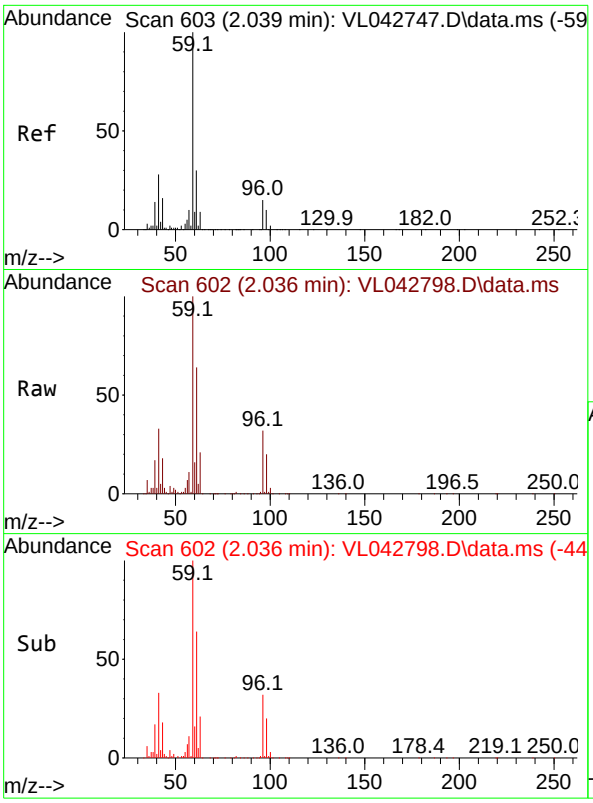


#16
1,3-Butadiene
Concen: 9.992 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 39 Resp: 90012

Ion	Ratio	Lower	Upper
39	100		
54	66.4	54.5	81.7

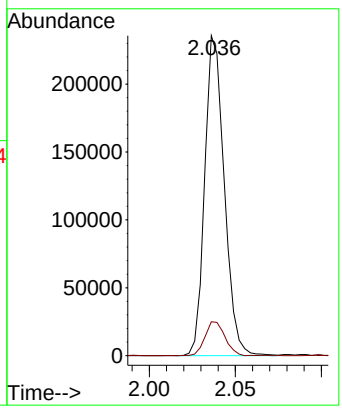




#17
tert-Butyl alcohol
Concen: 9.777 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 59 Resp: 18623

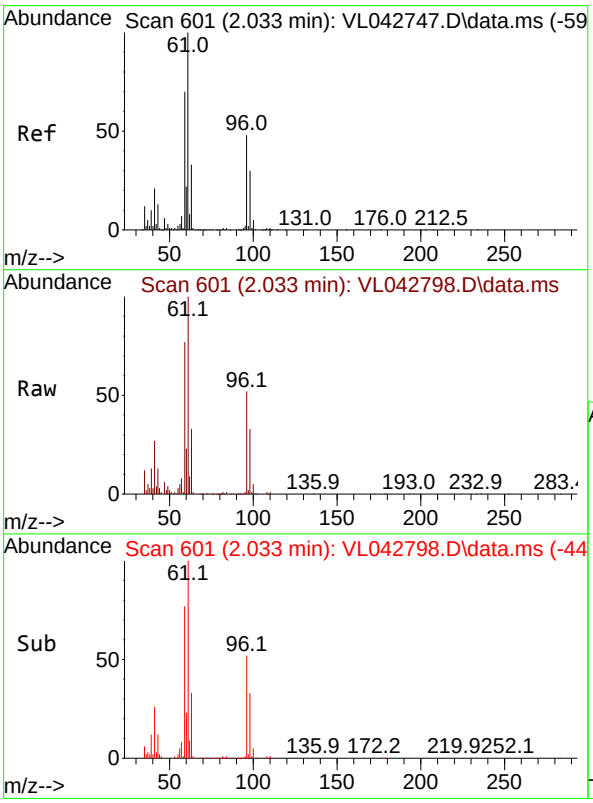
Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.3	12.5



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

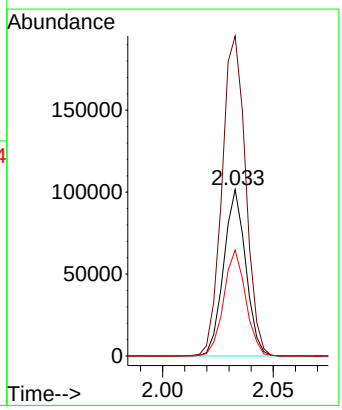
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

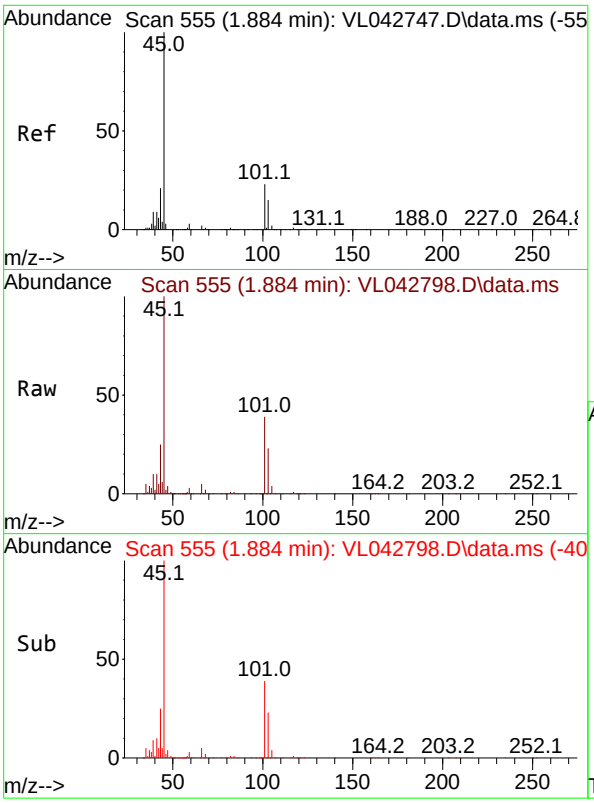


#18
1,1-Dichloroethene
Concen: 9.855 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 96 Resp: 70538

Ion	Ratio	Lower	Upper
96	100		
61	192.3	165.8	248.6
98	63.7	49.9	74.9

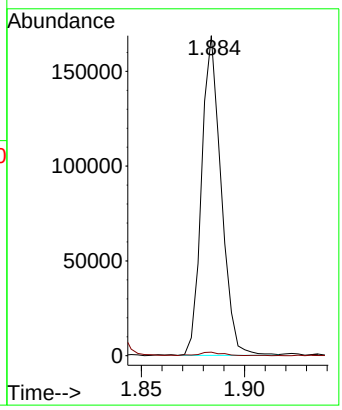




#19
Isopropyl Alcohol
Concen: 9.899 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 45 Resp: 11109

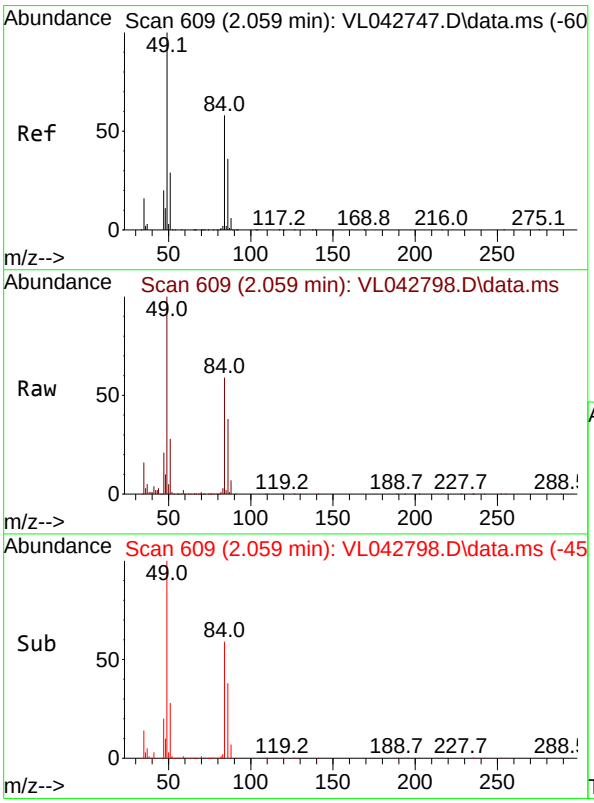
Ion	Ratio	Lower	Upper
45	100		
58	38.2	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

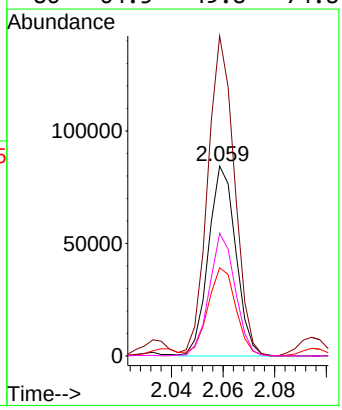
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

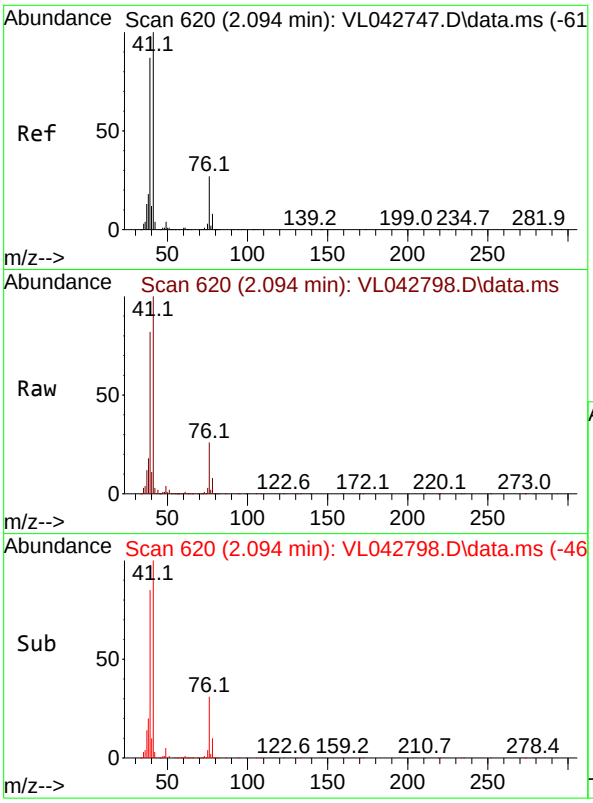


#20
Methylene Chloride
Concen: 9.349 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 84 Resp: 62223

Ion	Ratio	Lower	Upper
84	100		
49	168.4	138.6	208.0
51	46.4	40.6	61.0
86	64.5	49.8	74.8

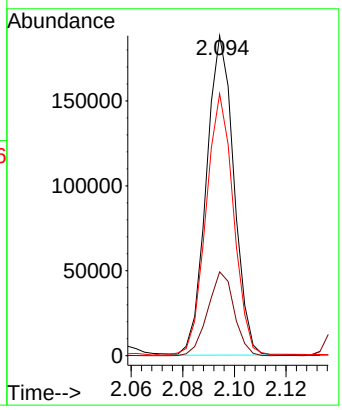




#21
Allyl Chloride
Concen: 10.664 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 41 Resp: 13881

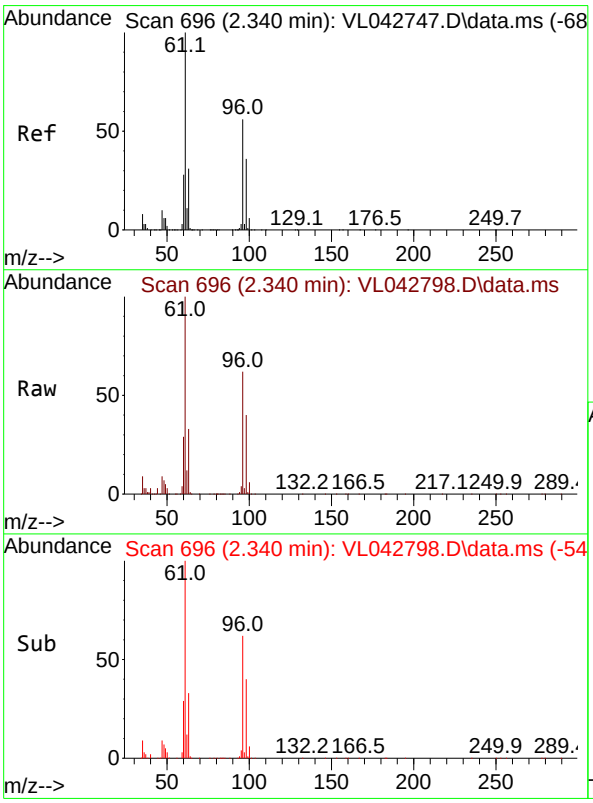
Ion	Ratio	Lower	Upper
41	100		
76	25.2	21.1	31.7
39	81.3	68.3	102.5



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

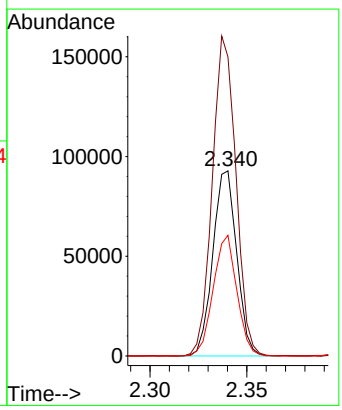
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

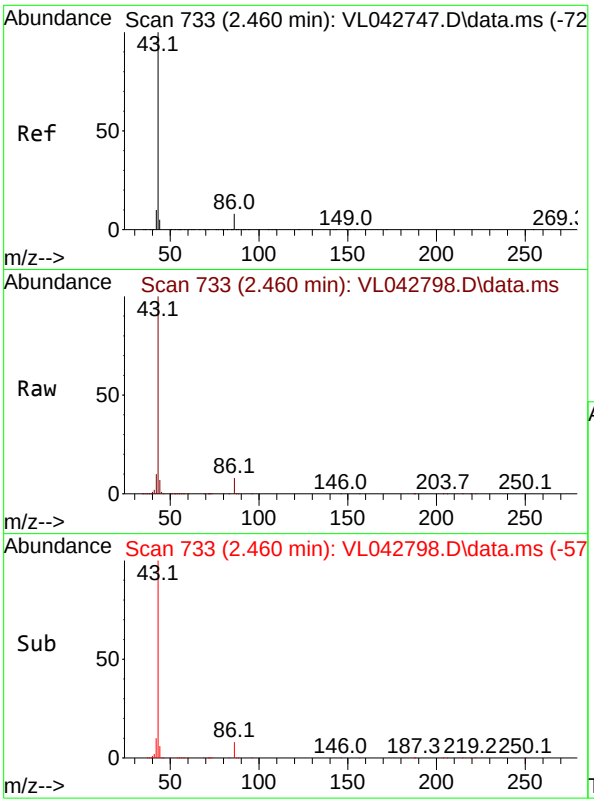


#22
trans-1,2-Dichloroethene
Concen: 10.348 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 96 Resp: 79678

Ion	Ratio	Lower	Upper
96	100		
61	161.5	142.3	213.5
98	65.1	50.6	76.0

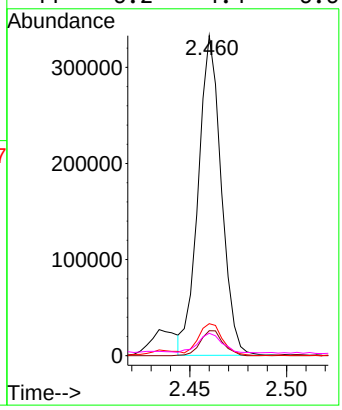




#23
Vinyl Acetate
Concen: 10.744 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 43 Resp: 27509

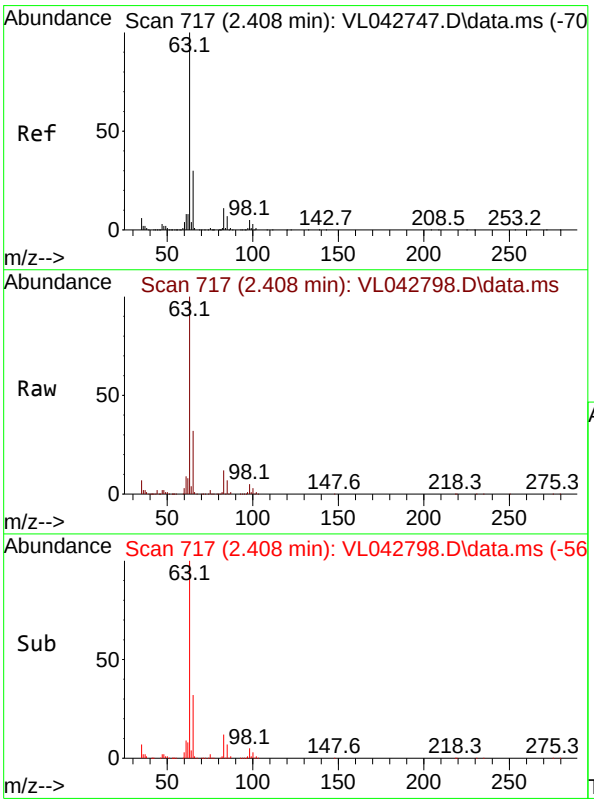
Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.1	9.1
42	9.8	7.8	11.8
44	6.2	4.4	6.6



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

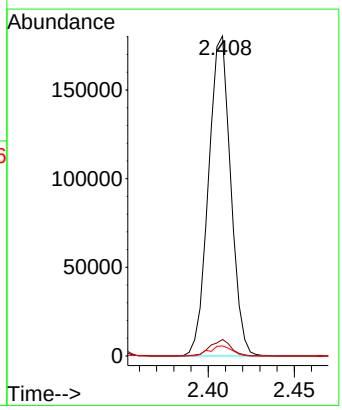
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

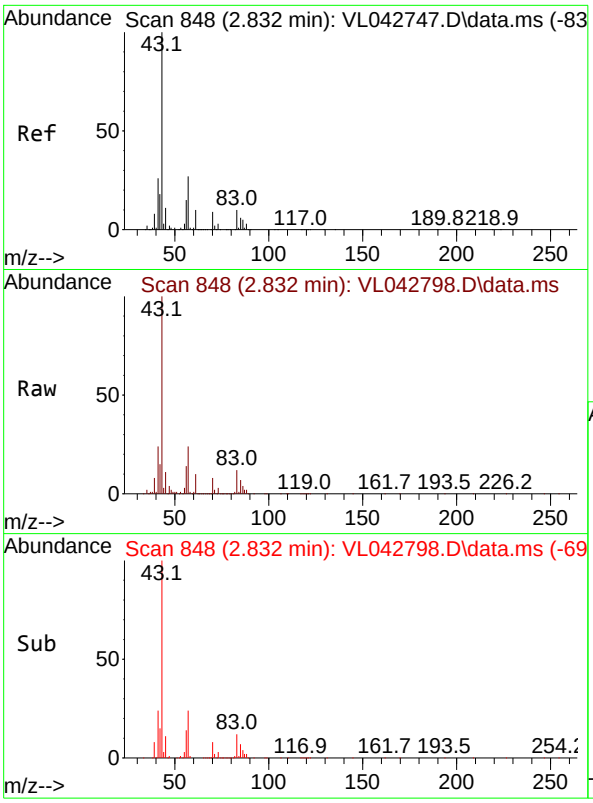


#24
1,1-Dichloroethane
Concen: 10.252 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 63 Resp: 162025

Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.5	7.4
100	3.1	1.6	4.8

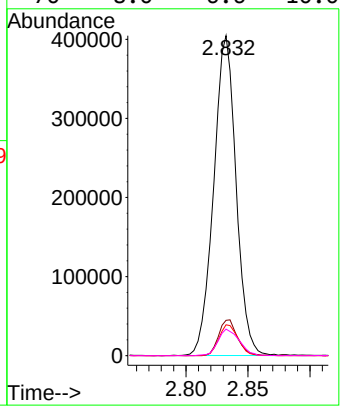




#25
Ethyl Acetate
Concen: 10.908 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 43 Resp: 509939

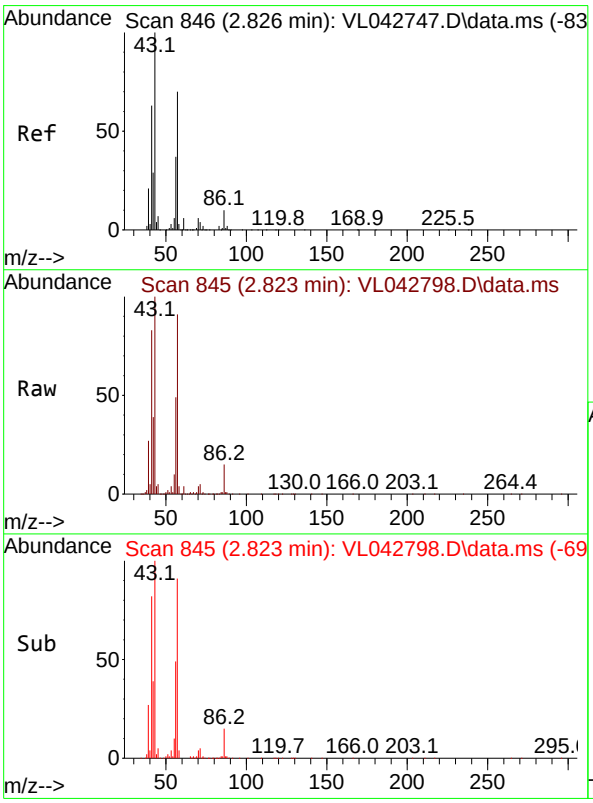
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	8.4	6.7	10.1
70	8.0	6.6	10.0



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

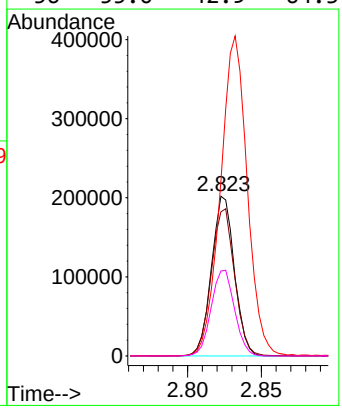
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

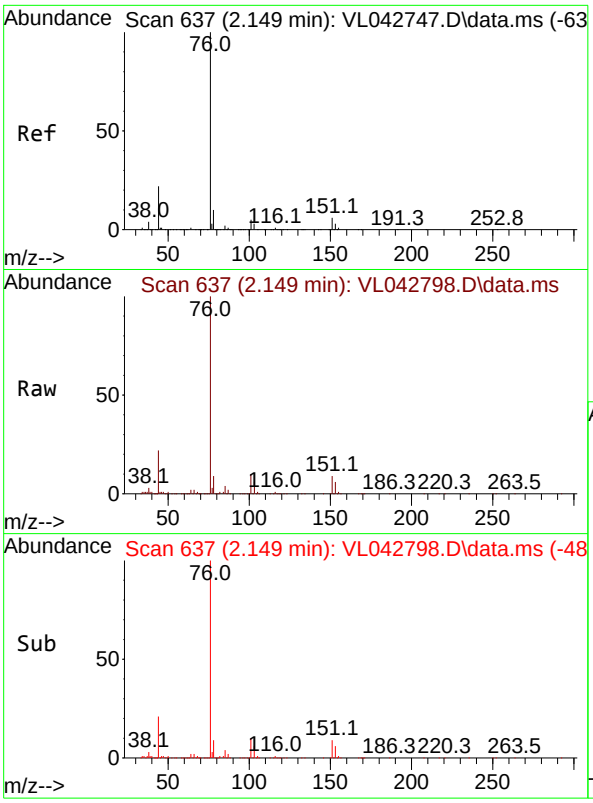


#26
Hexane
Concen: 10.603 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 57 Resp: 217430

Ion	Ratio	Lower	Upper
57	100		
41	94.8	75.4	113.2
43	235.5	185.0	277.6
56	55.0	42.9	64.3

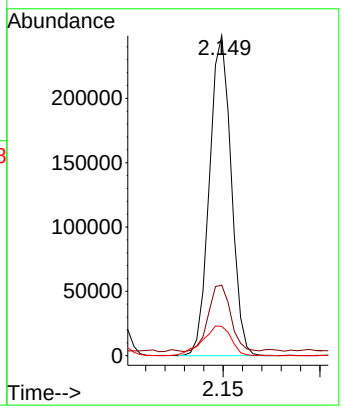




#27
Carbon Disulfide
Concen: 11.020 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 76 Resp: 19346

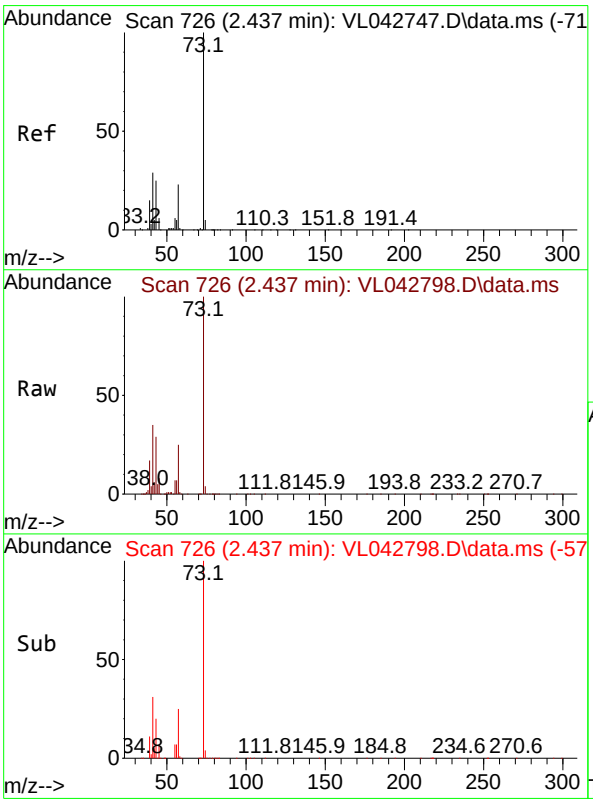
Ion	Ratio	Lower	Upper
76	100		
44	24.3	19.3	28.9
78	12.3	9.9	14.9



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

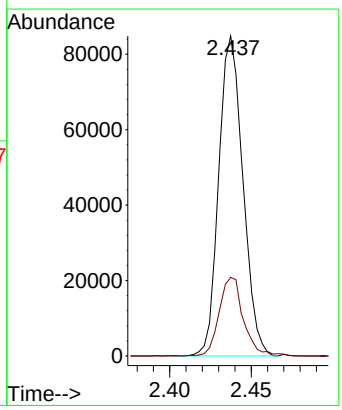
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

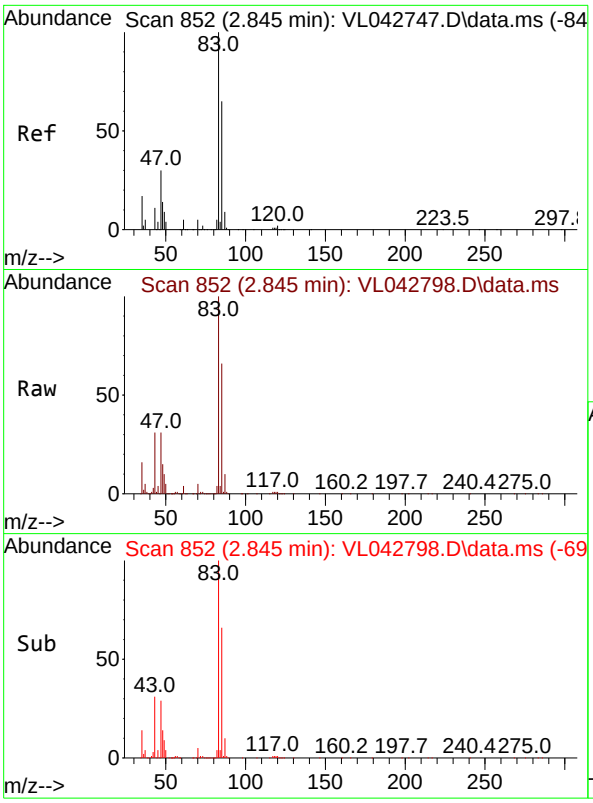


#28
Methyl tert-Butyl Ether
Concen: 9.013 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 73 Resp: 87317

Ion	Ratio	Lower	Upper
73	100		
57	24.7	19.8	29.8

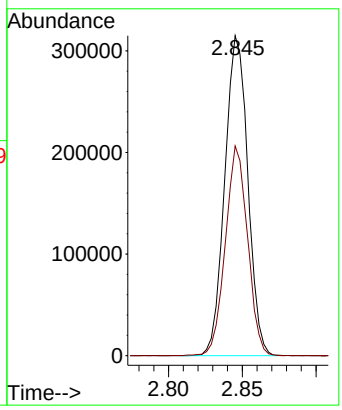




#29
Chloroform
Concen: 10.770 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 83 Resp: 34129

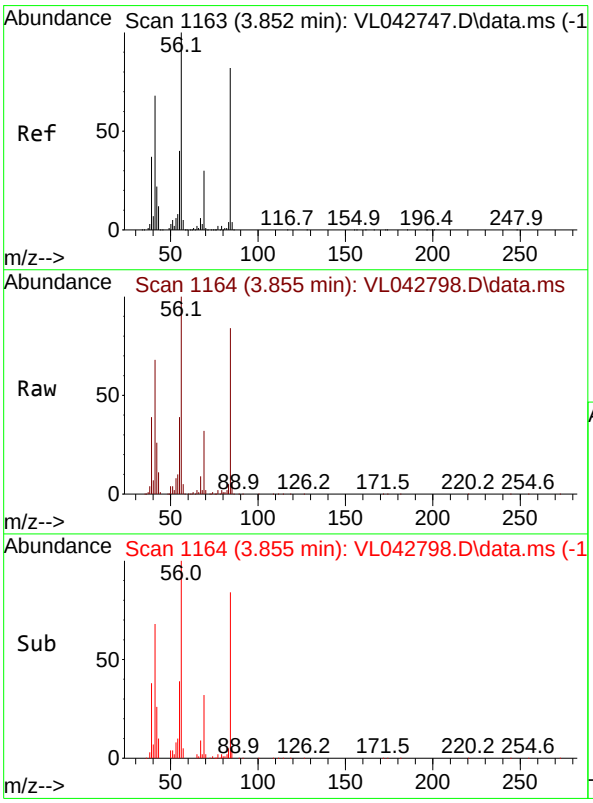
Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.2	78.2



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

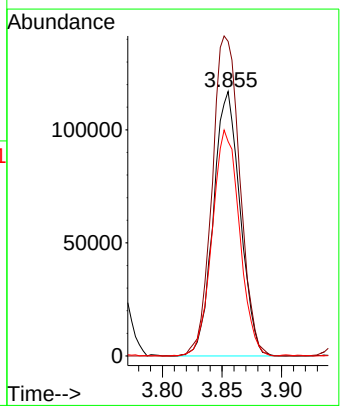
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

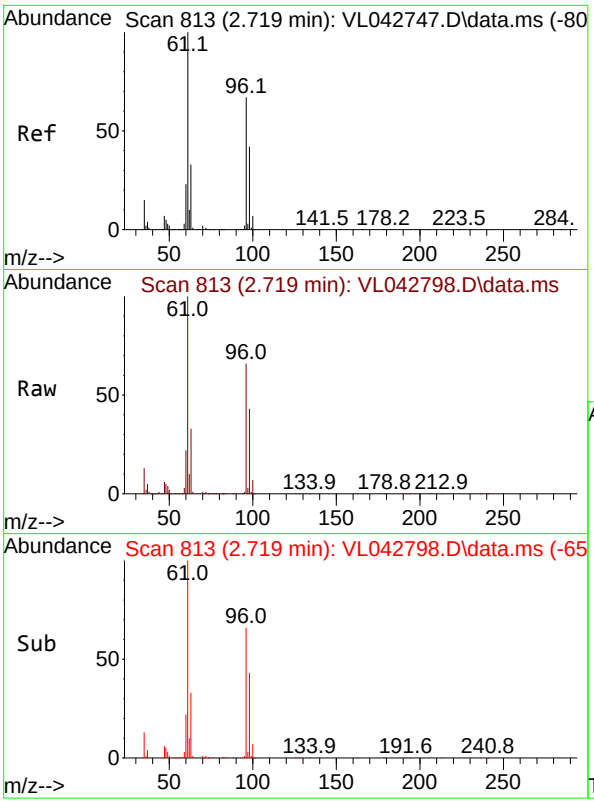


#30
Cyclohexane
Concen: 10.516 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 84 Resp: 182892

Ion	Ratio	Lower	Upper
84	100		
56	125.4	97.5	146.3
41	87.4	67.2	100.8

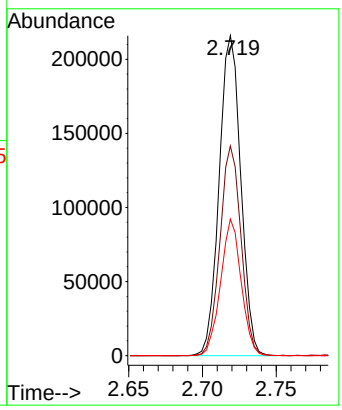




#31
cis-1,2-Dichloroethene
Concen: 10.456 ppbv
RT: 2.719 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 61 Resp: 22034

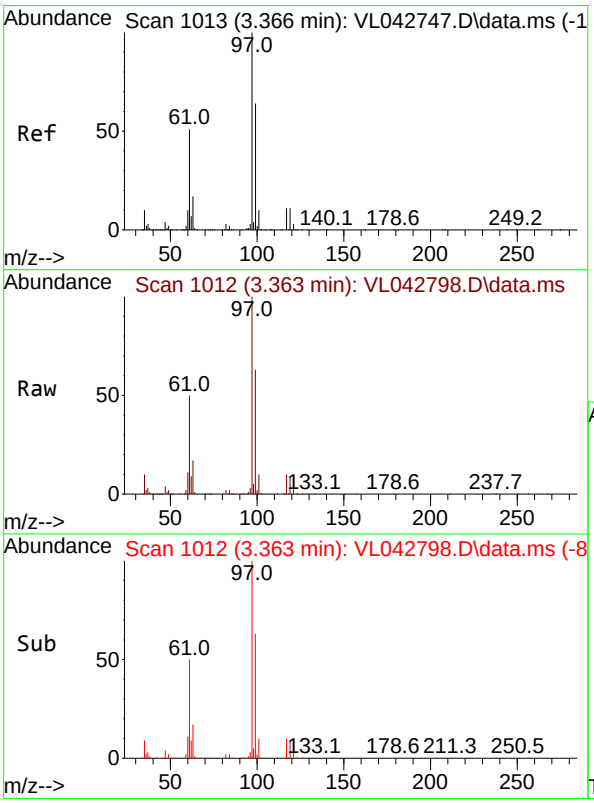
Ion	Ratio	Lower	Upper
61	100		
96	65.6	53.5	80.3
98	42.7	33.6	50.4



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

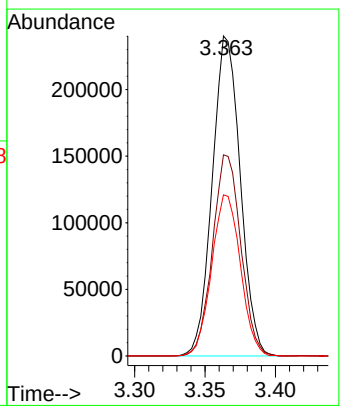
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

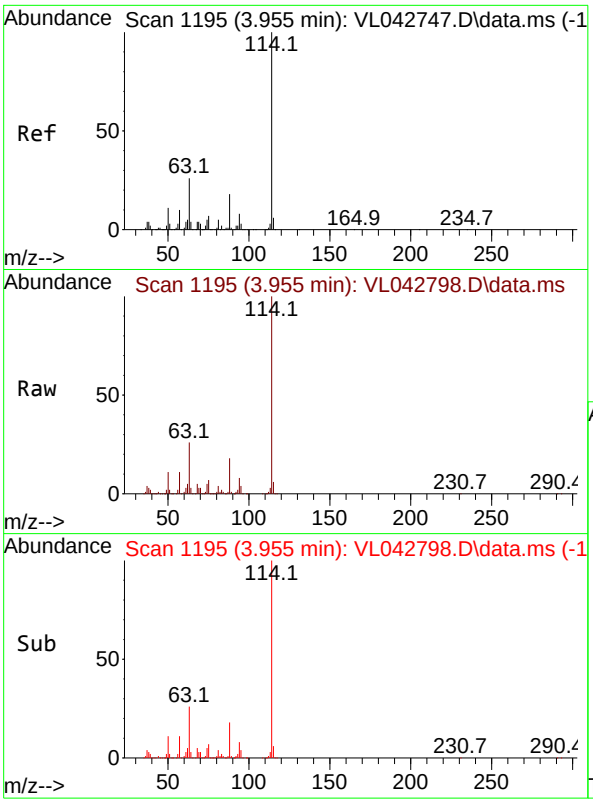


#32
1,1,1-Trichloroethane
Concen: 10.083 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 97 Resp: 332840

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.0	76.6
61	51.9	40.9	61.3

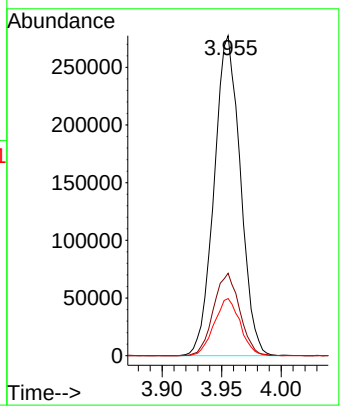




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:114 Resp: 42427

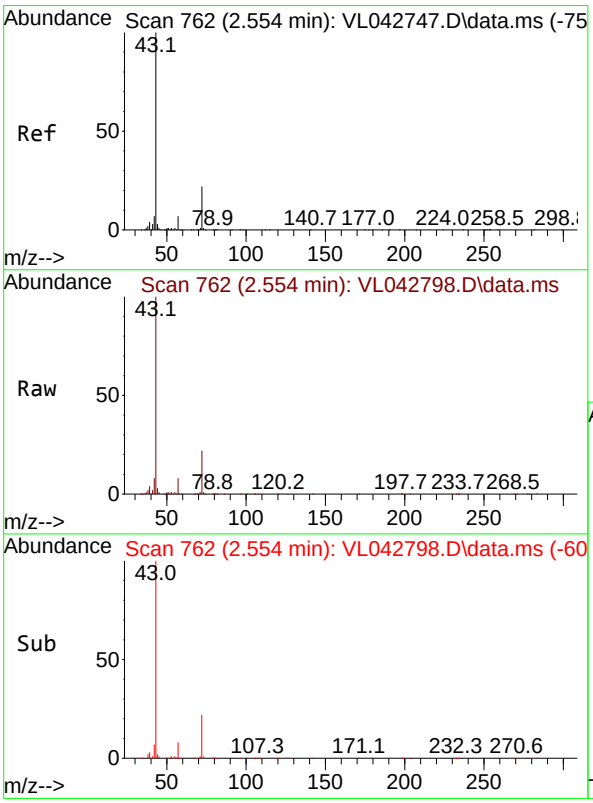
Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.5	30.7
88	17.7	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

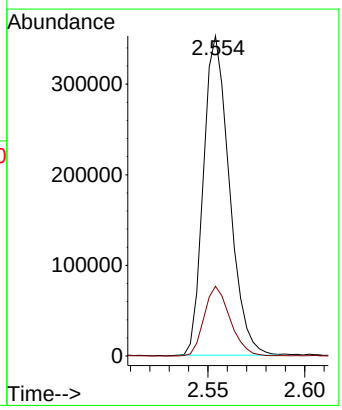
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

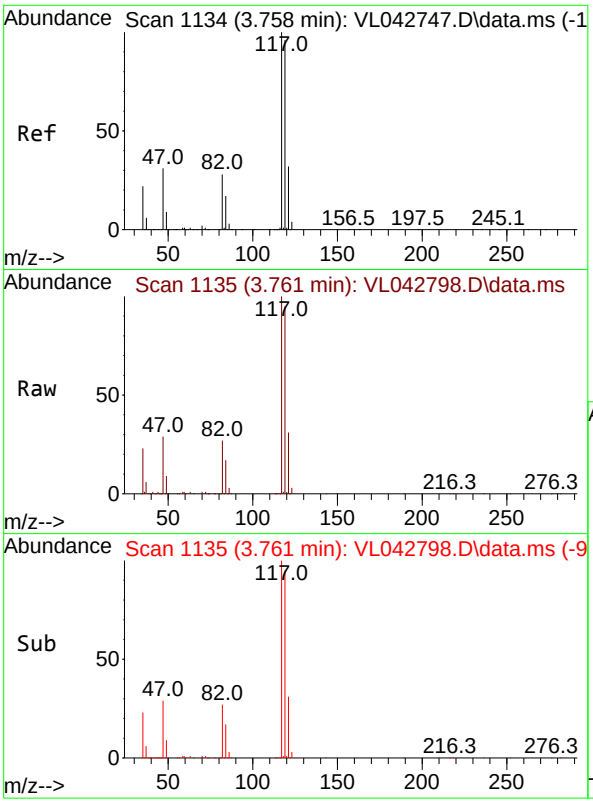


#34
2-Butanone
Concen: 10.922 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 43 Resp: 328262

Ion	Ratio	Lower	Upper
43	100		
72	22.0	17.4	26.0

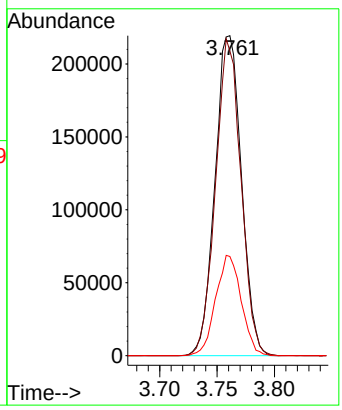




#35
Carbon Tetrachloride
Concen: 11.173 ppbv
RT: 3.761 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:117 Resp: 35211

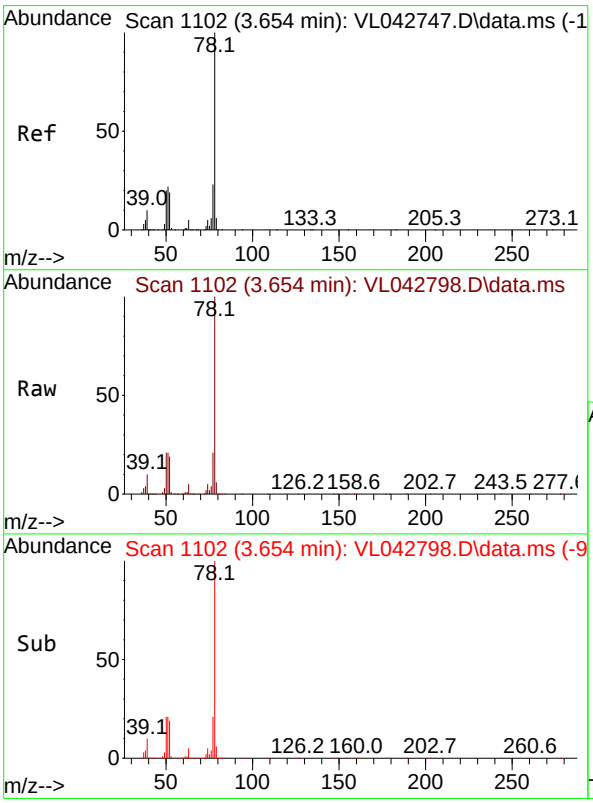
Ion	Ratio	Lower	Upper
117	100		
119	95.2	77.1	115.7
121	31.0	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

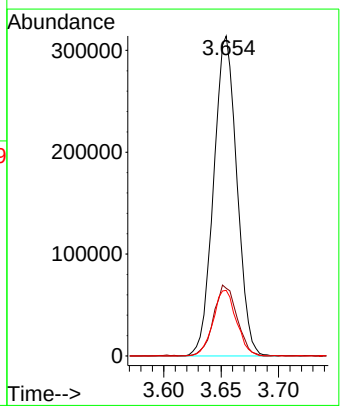
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

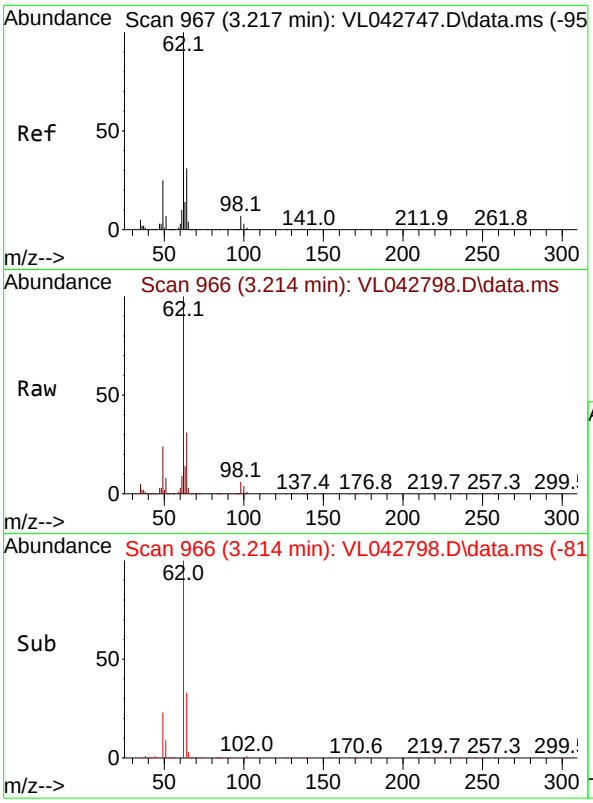


#36
Benzene
Concen: 11.012 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 78 Resp: 442780

Ion	Ratio	Lower	Upper
78	100		
77	21.1	18.5	27.7
50	20.5	16.2	24.2

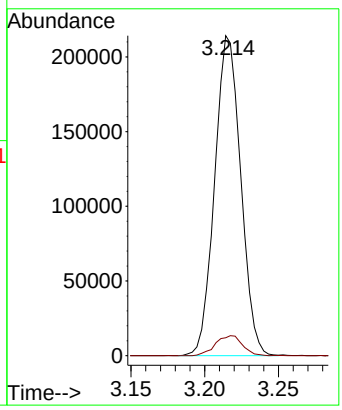




#37
1,2-Dichloroethane
Concen: 10.867 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 62 Resp: 26321

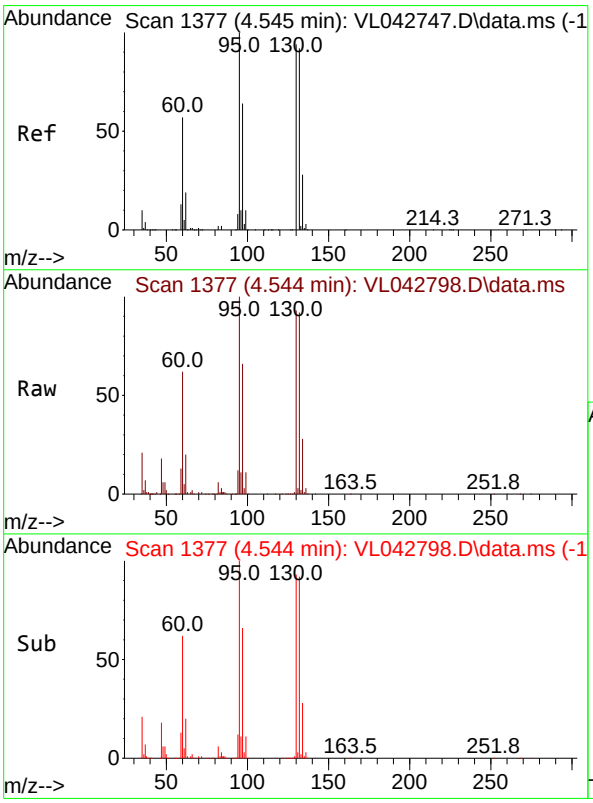
Ion	Ratio	Lower	Upper
62	100		
98	6.5	5.2	7.8



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

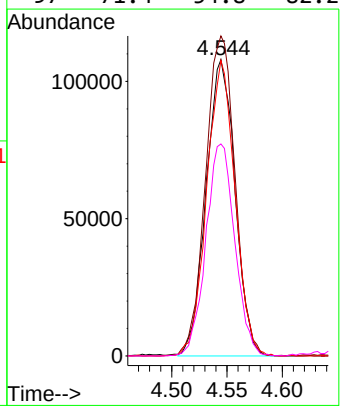
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

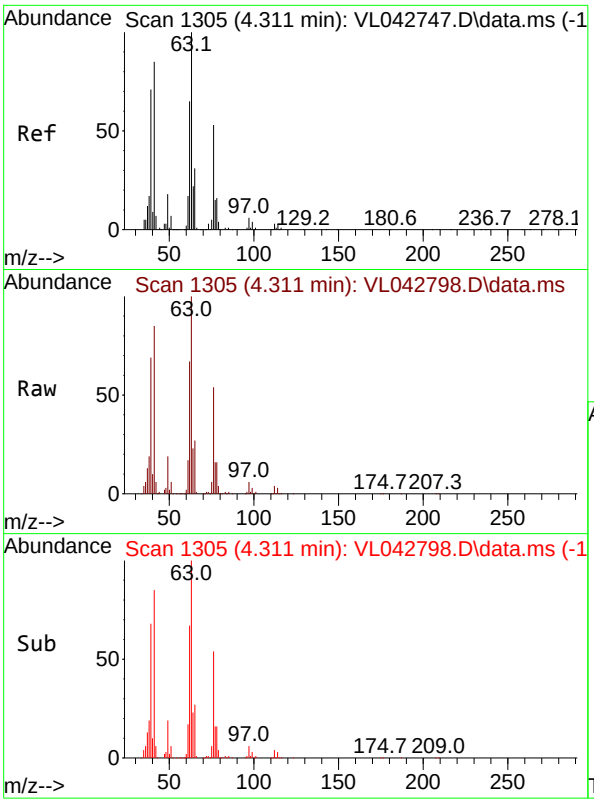


#38
Trichloroethene
Concen: 10.162 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:130 Resp: 196304

Ion	Ratio	Lower	Upper
130	100		
95	107.8	85.4	128.2
132	99.7	78.2	117.2
97	71.4	54.8	82.2

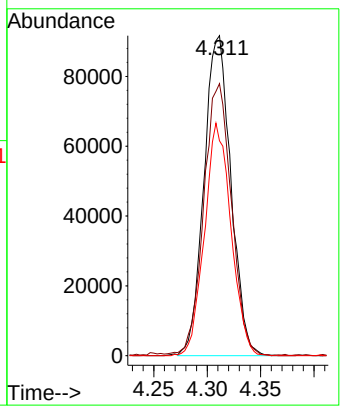




#39
1,2-Dichloropropane
Concen: 10.820 ppbv
RT: 4.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 63 Resp: 16059

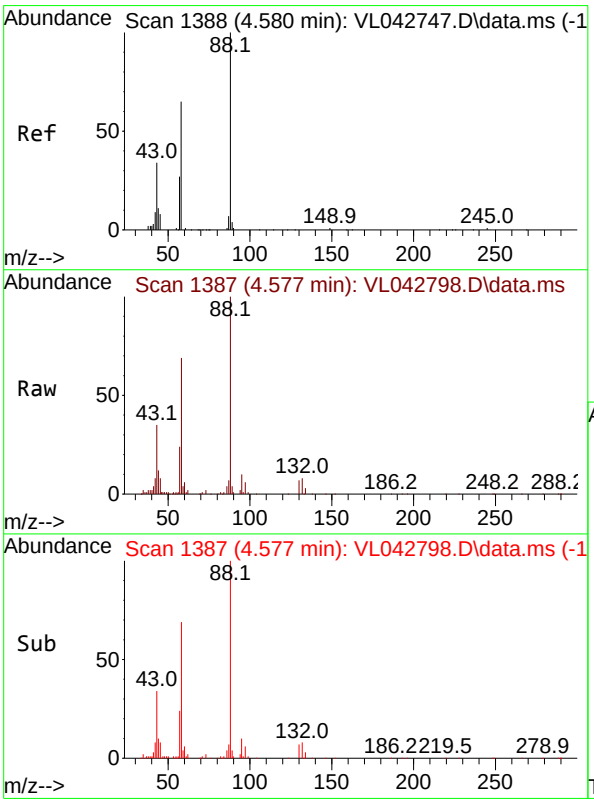
Ion	Ratio	Lower	Upper
63	100		
41	84.7	68.2	102.4
62	67.1	52.0	78.0



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

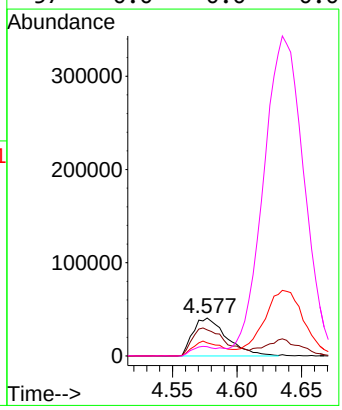
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

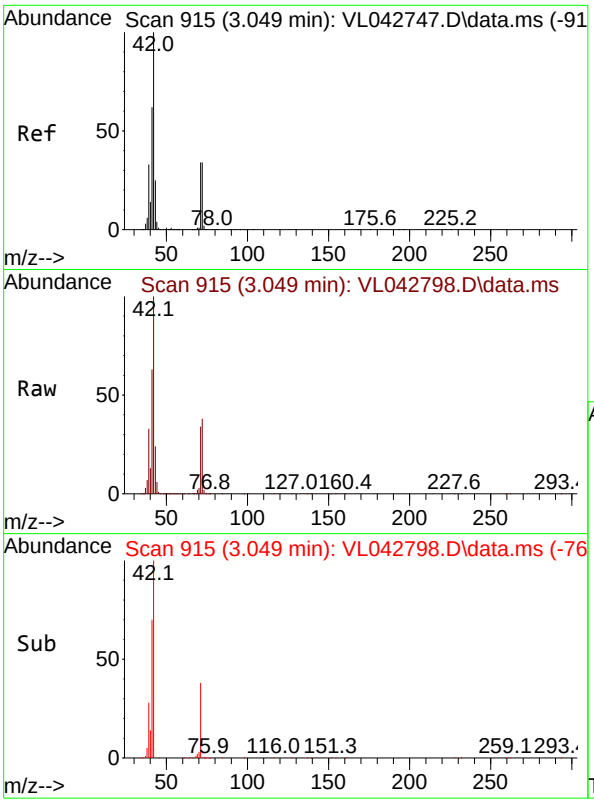


#40
1,4-Dioxane
Concen: 10.699 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 88 Resp: 74021

Ion	Ratio	Lower	Upper
88	100		
58	71.4	58.8	88.2
43	32.6	28.9	43.3
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 11.586 ppbv
RT: 3.049 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

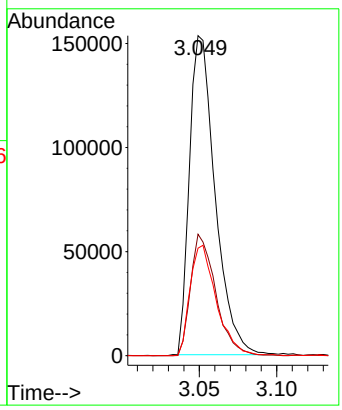
Tgt Ion: 42 Resp: 17718

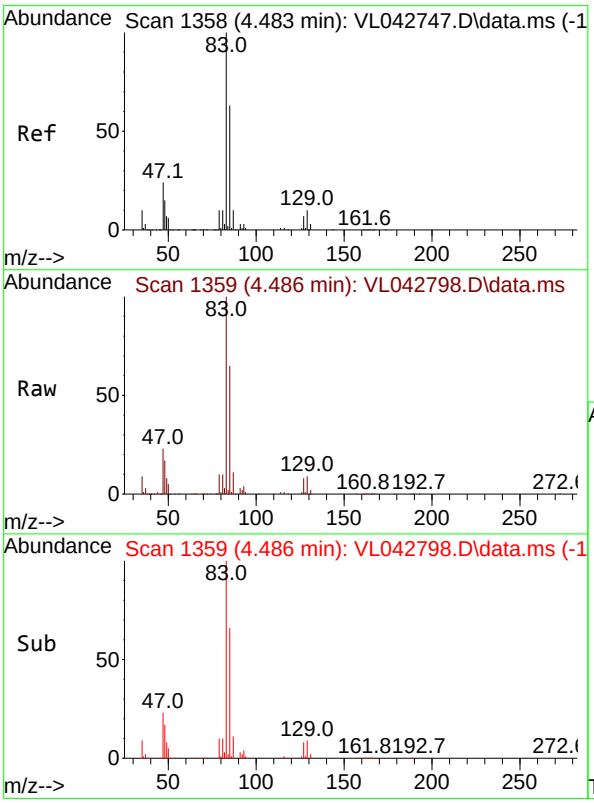
Ion	Ratio	Lower	Upper
42	100		
72	37.2	30.9	46.3
71	35.7	28.6	43.0

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

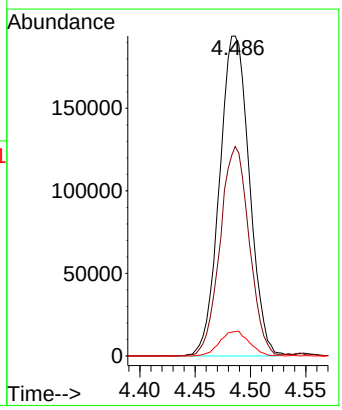


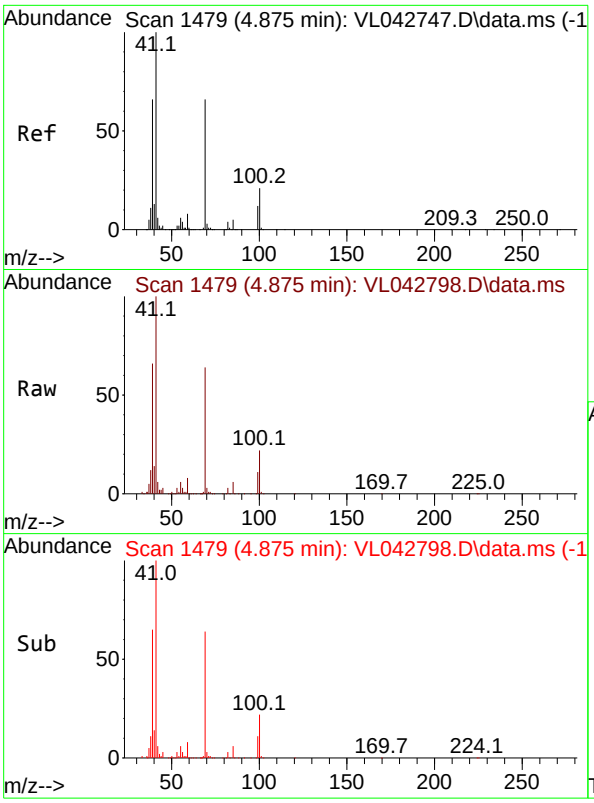


#42
Bromodichloromethane
Concen: 11.524 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 83 Resp: 363538

Ion	Ratio	Lower	Upper
83	100		
85	65.4	50.2	75.4
127	7.7	5.4	8.2

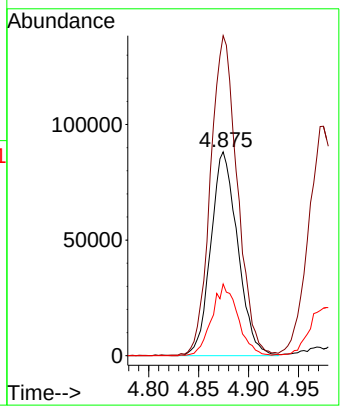




#43
Methyl Methacrylate
Concen: 11.536 ppbv
RT: 4.875 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 69 Resp: 16487

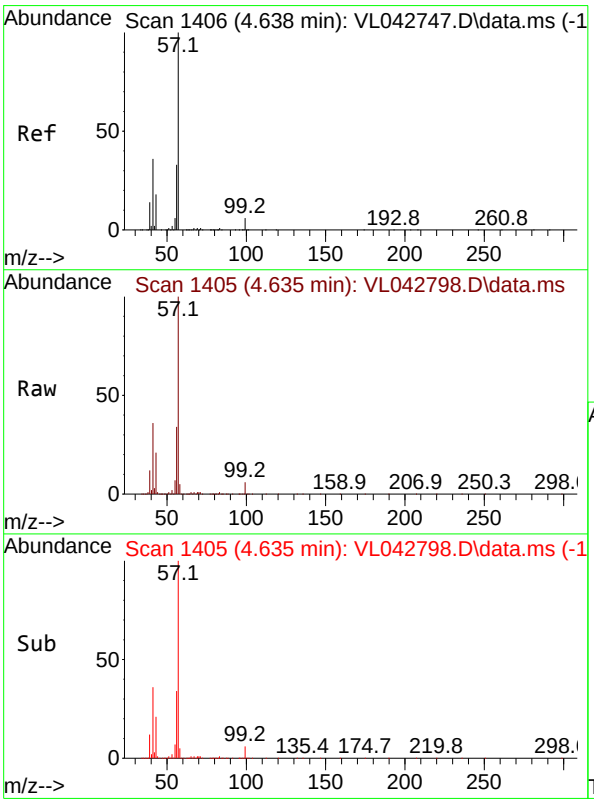
Ion	Ratio	Lower	Upper
69	100		
41	157.6	125.7	188.5
100	33.9	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

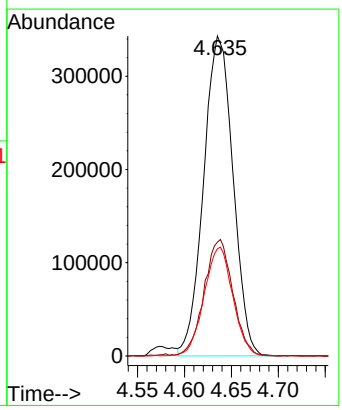
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

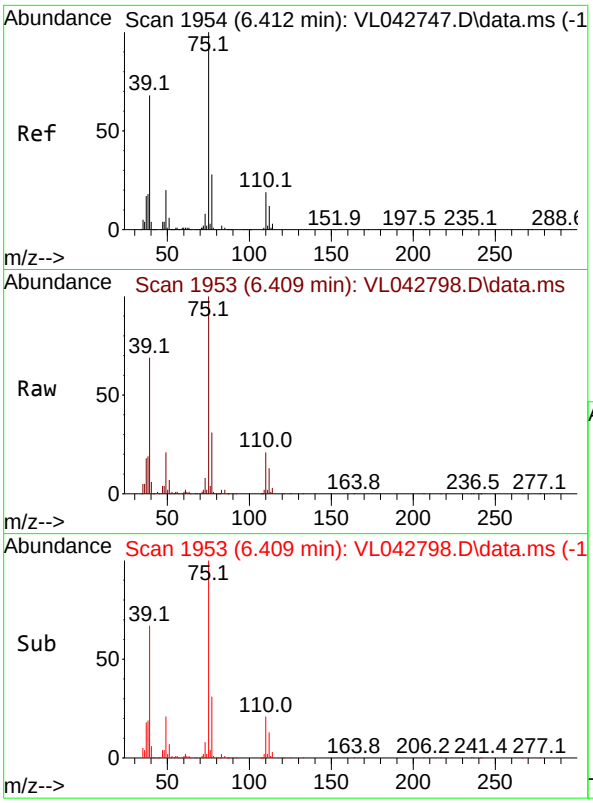


#44
2,2,4-Trimethylpentane
Concen: 11.408 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 57 Resp: 747668

Ion	Ratio	Lower	Upper
57	100		
41	36.0	28.3	42.5
56	33.3	25.8	38.6

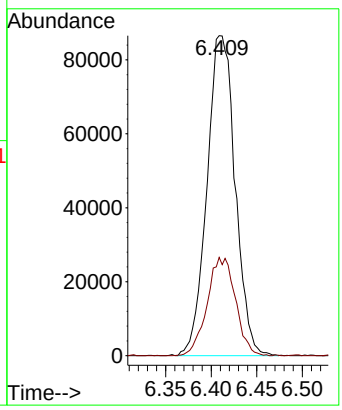




#45
t-1,3-Dichloropropene
Concen: 11.617 ppbv
RT: 6.409 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 75 Resp: 18618

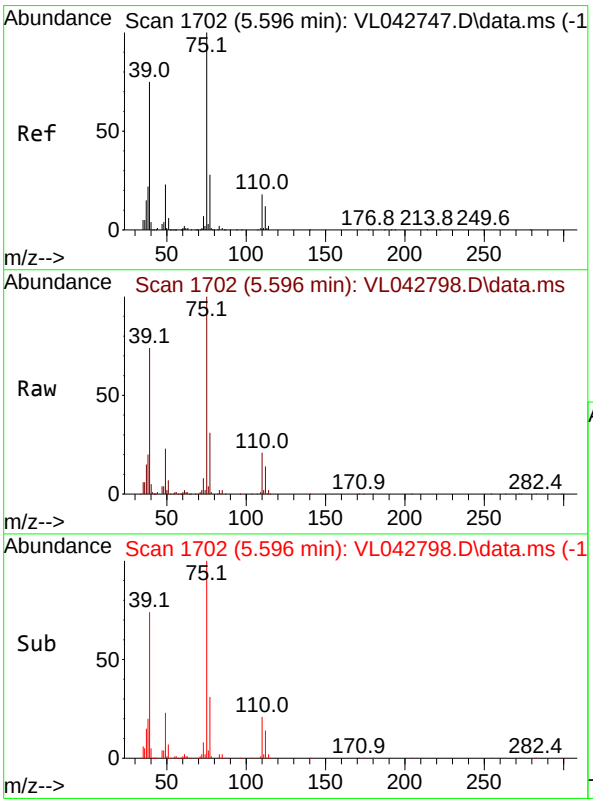
Ion	Ratio	Lower	Upper
75	100		
77	30.7	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

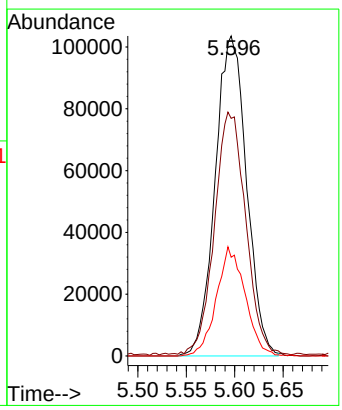
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

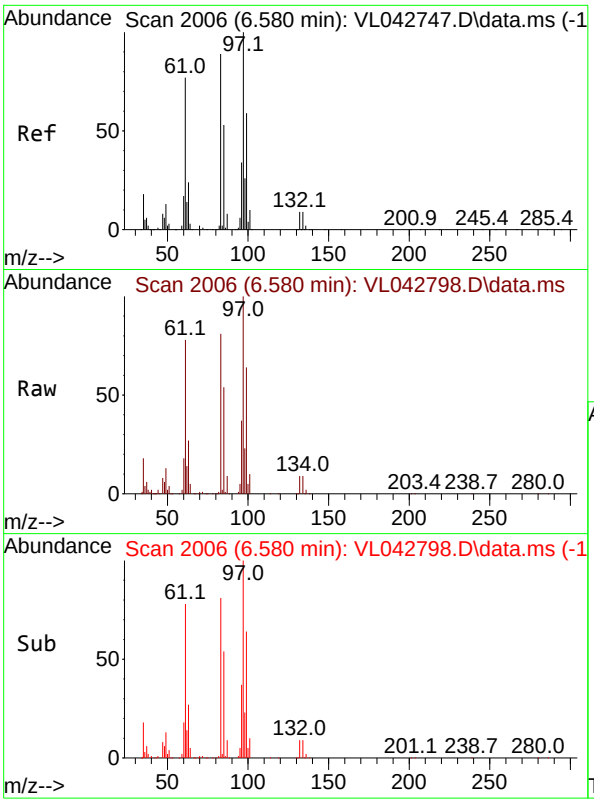


#46
cis-1,3-Dichloropropene
Concen: 11.503 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 75 Resp: 233634

Ion	Ratio	Lower	Upper
75	100		
39	73.7	60.2	90.2
77	30.8	22.6	34.0

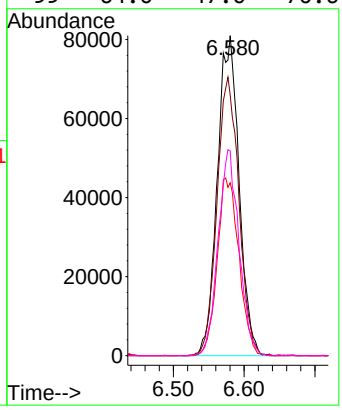




#47
1,1,2-Trichloroethane
Concen: 10.883 ppbv m
RT: 6.580 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 97 Resp: 17219

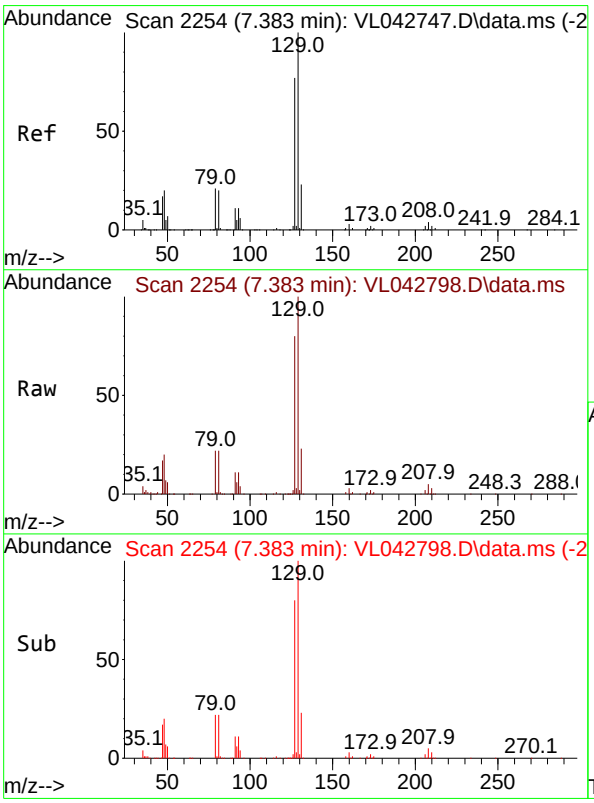
Ion	Ratio	Lower	Upper
97	100		
83	81.4	71.1	106.7
85	54.1	43.0	64.4
99	64.0	47.0	70.6



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

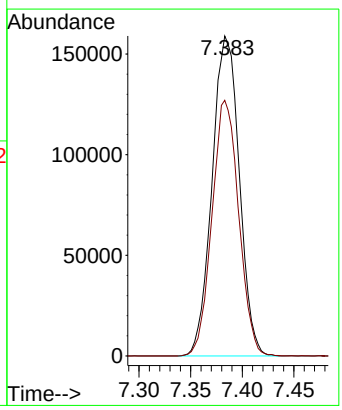
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

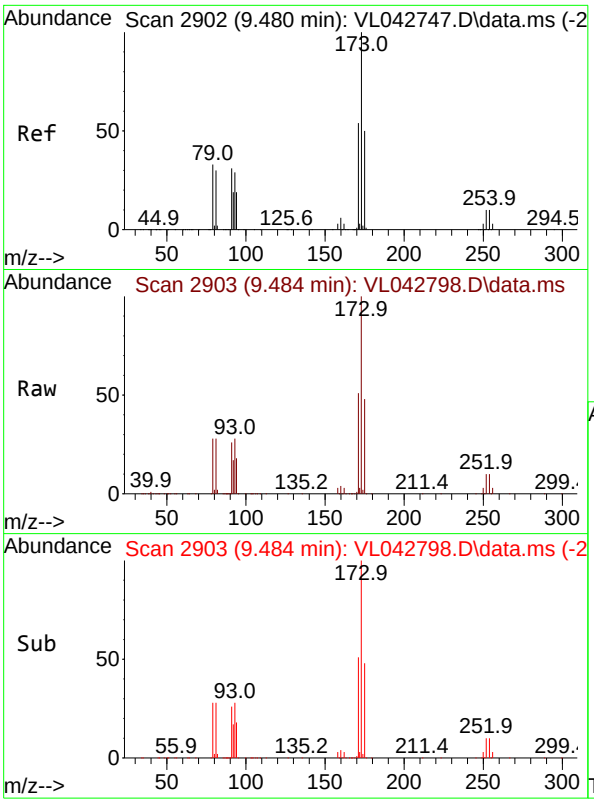


#48
Dibromochloromethane
Concen: 11.619 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:129 Resp: 291861

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.7	116.1

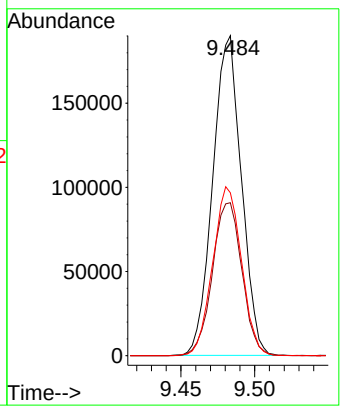




#49
Bromoform
Concen: 11.698 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:173 Resp: 25620

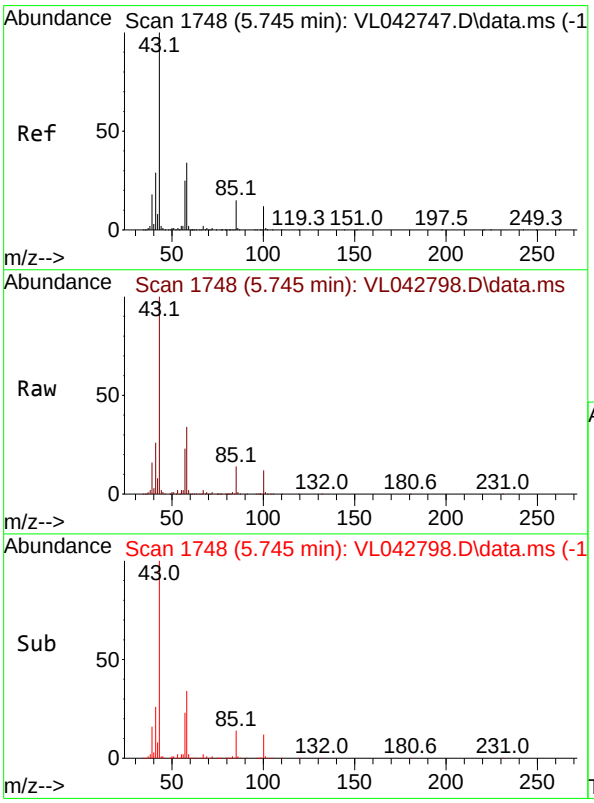
Ion	Ratio	Lower	Upper
173	100		
175	49.4	38.4	57.6
171	53.1	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

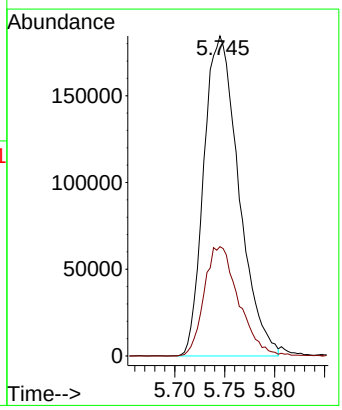
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

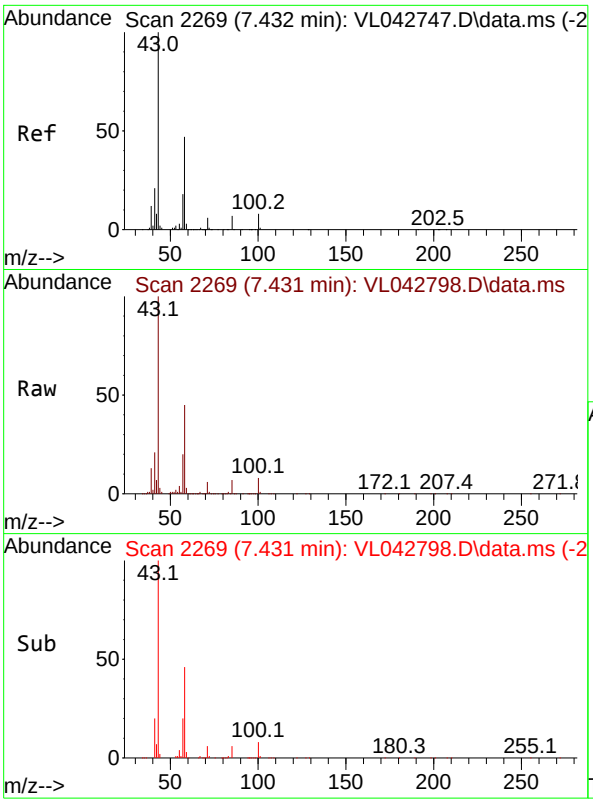


#50
4-Methyl-2-Pentanone
Concen: 11.601 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 43 Resp: 449115

Ion	Ratio	Lower	Upper
43	100		
58	33.8	27.8	41.8





#51
2-Hexanone
Concen: 12.346 ppbv
RT: 7.431 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

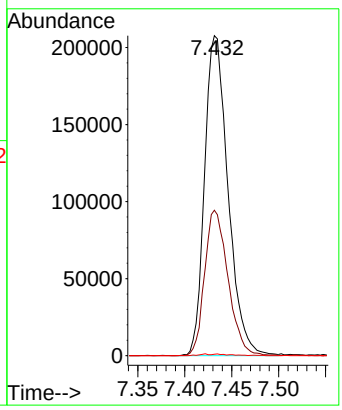
Tgt Ion: 43 Resp: 36119

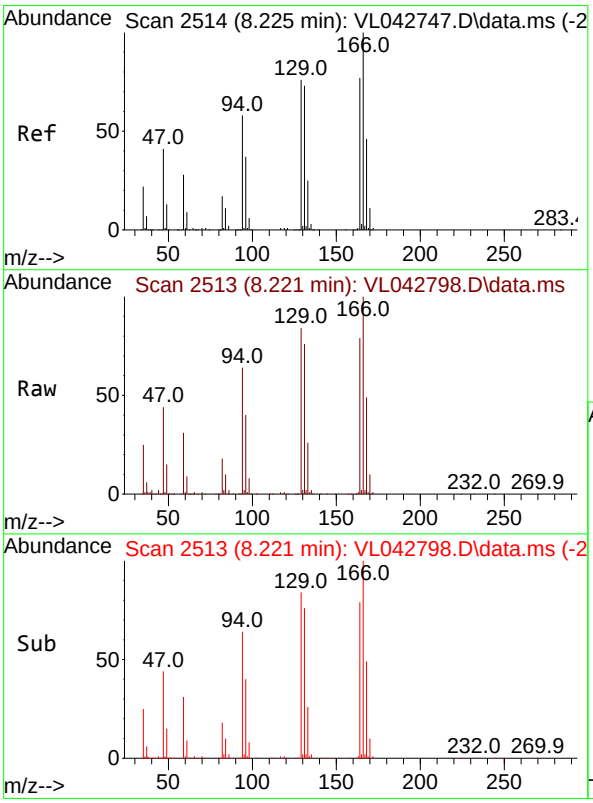
Ion	Ratio	Lower	Upper
43	100		
58	45.5	38.0	57.0
98	0.7	0.2	0.4

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

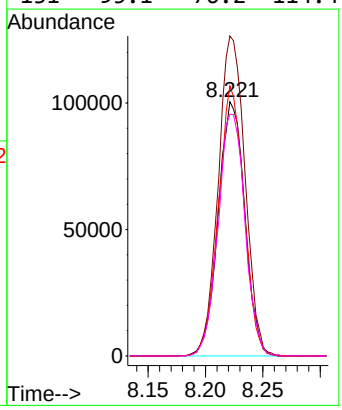


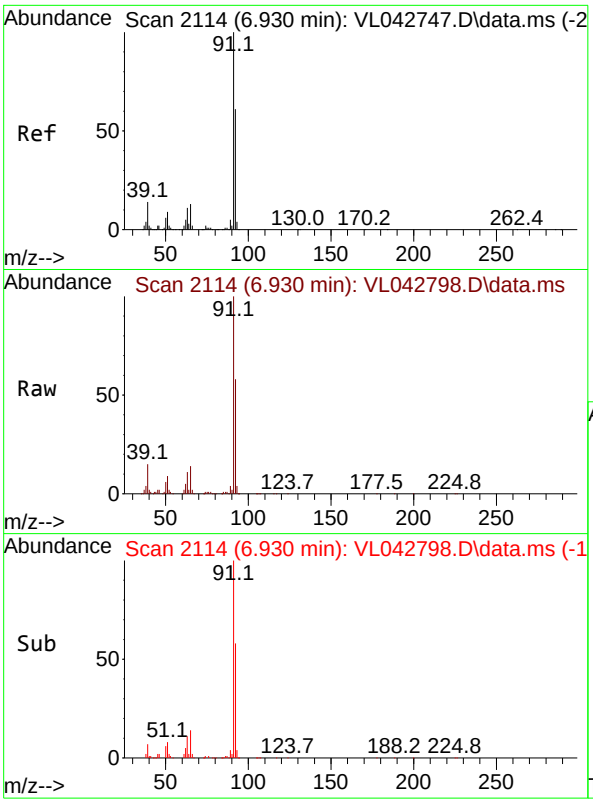


#52
Tetrachloroethene
Concen: 9.700 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:164 Resp: 161678

Ion	Ratio	Lower	Upper
164	100		
166	125.9	104.0	156.0
129	106.2	79.2	118.8
131	95.1	76.2	114.4

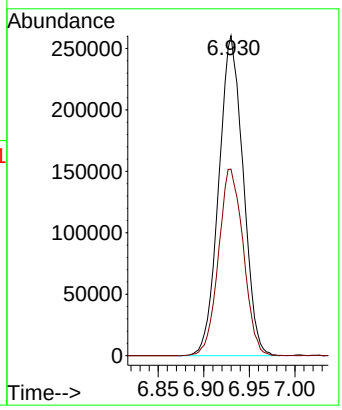




#53
Toluene
Concen: 11.202 ppbv
RT: 6.930 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 91 Resp: 48369

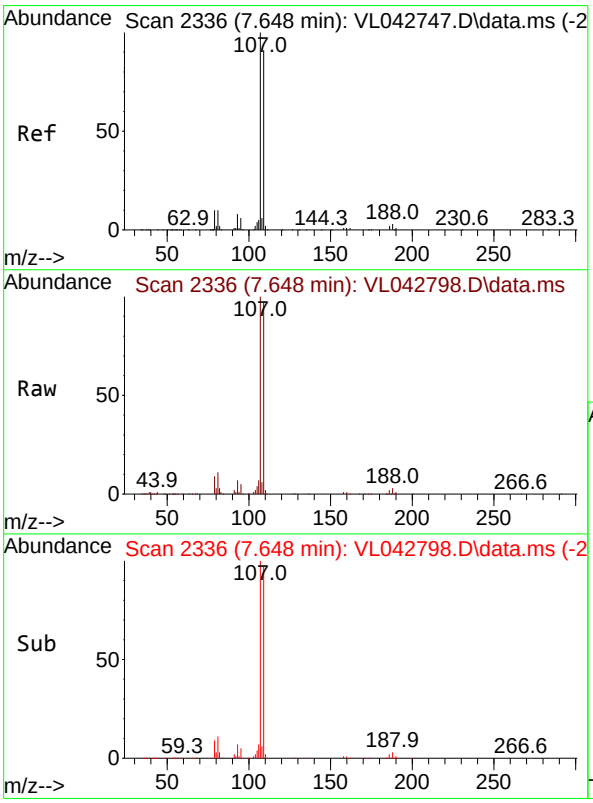
Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.0	72.0



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

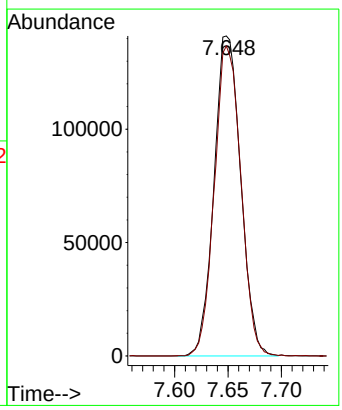
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

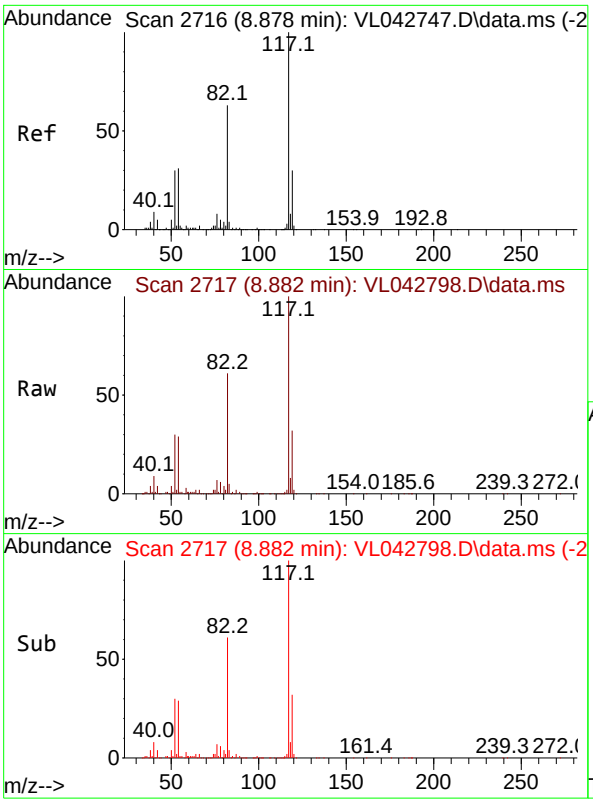


#54
1,2-Dibromoethane
Concen: 10.964 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:107 Resp: 245100

Ion	Ratio	Lower	Upper
107	100		
109	96.8	72.7	109.1

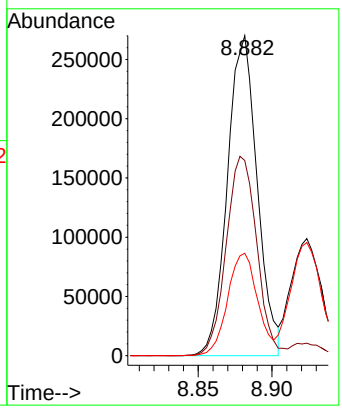




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:117 Resp: 37971

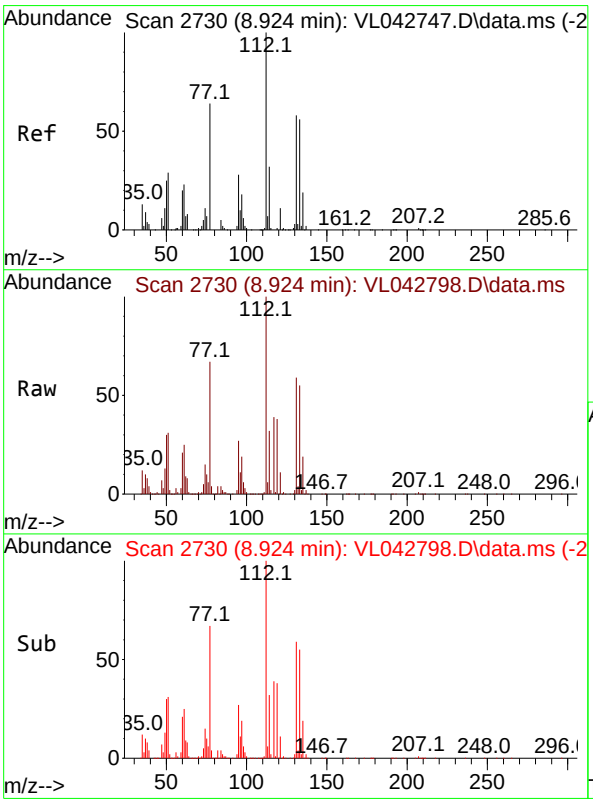
Ion	Ratio	Lower	Upper
117	100		
82	68.0	53.3	79.9
119	32.3	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

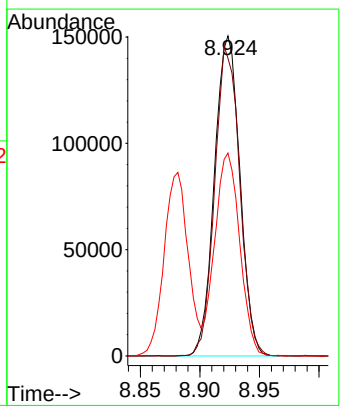
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

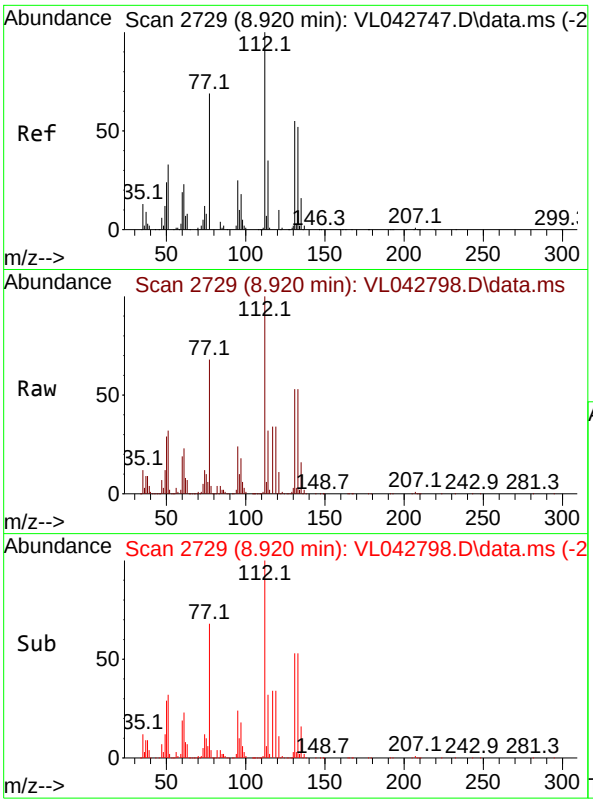


#56
1,1,1,2-Tetrachloroethane
Concen: 11.301 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:131 Resp: 223105

Ion	Ratio	Lower	Upper
131	100		
133	95.3	76.8	115.2
119	62.6	49.7	74.5

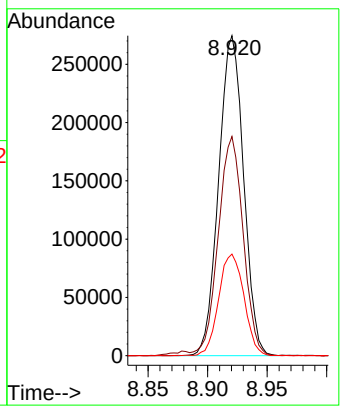




#57
Chlorobenzene
Concen: 10.865 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:112 Resp: 39926

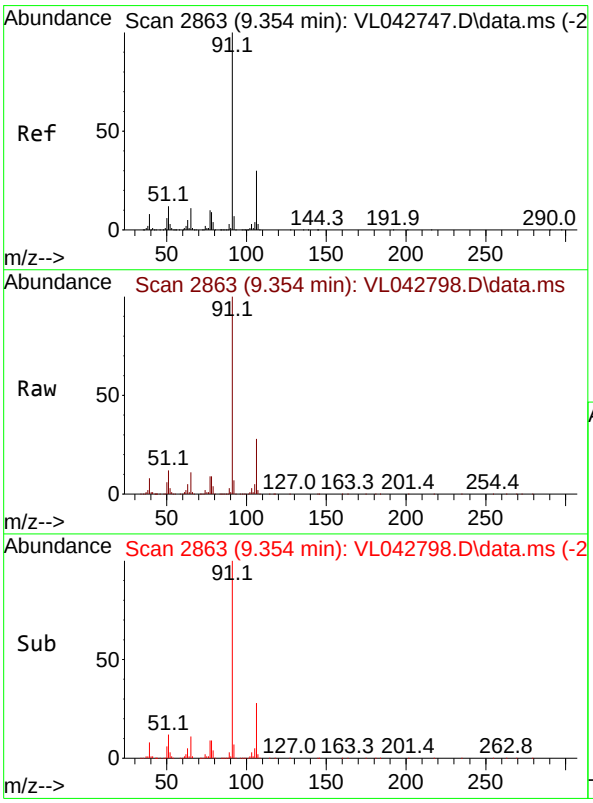
Ion	Ratio	Lower	Upper
112	100		
77	68.4	56.4	84.6
114	31.7	31.2	38.2



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

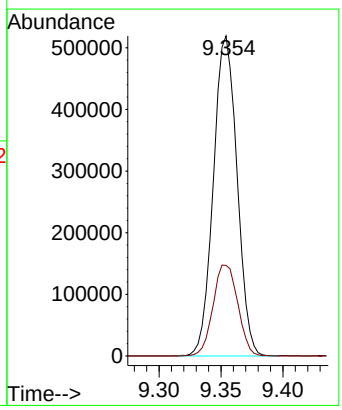
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

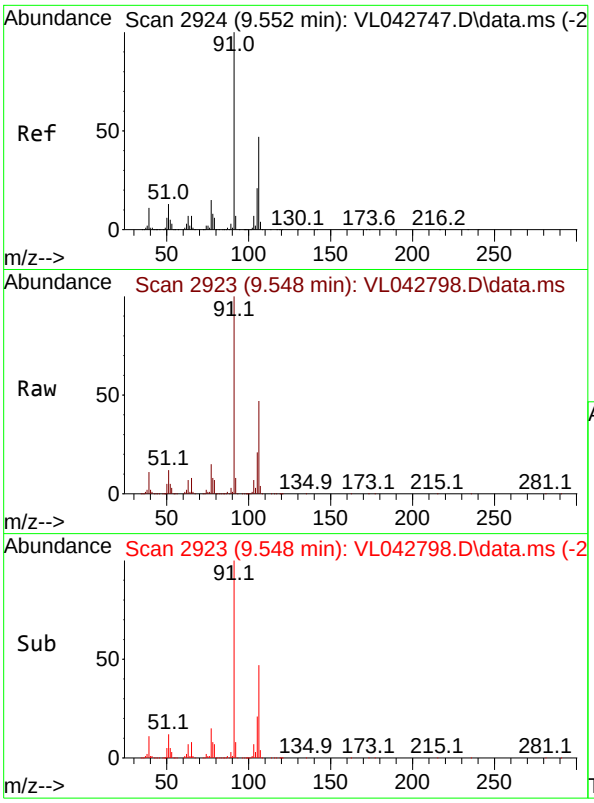


#58
Ethyl Benzene
Concen: 11.537 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 91 Resp: 691812

Ion	Ratio	Lower	Upper
91	100		
106	28.3	23.8	35.6

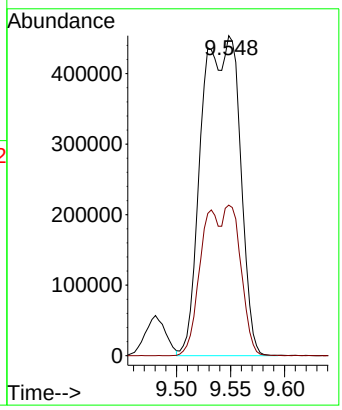




#59
m/p-Xylene
Concen: 23.471 ppbv m
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 91 Resp: 112481

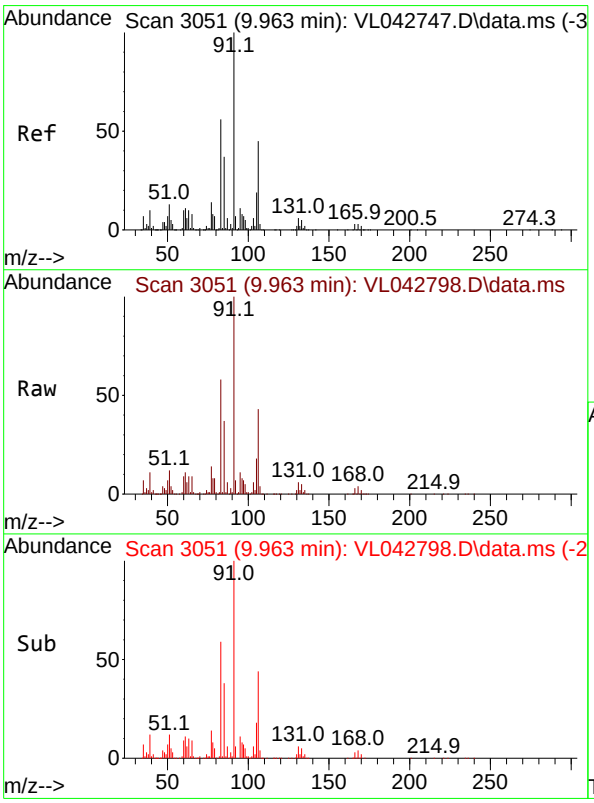
Ion	Ratio	Lower	Upper
91	100		
106	46.7	37.4	56.2



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

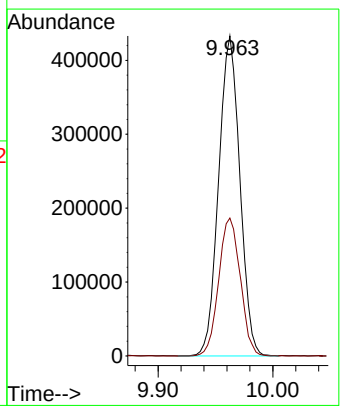
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

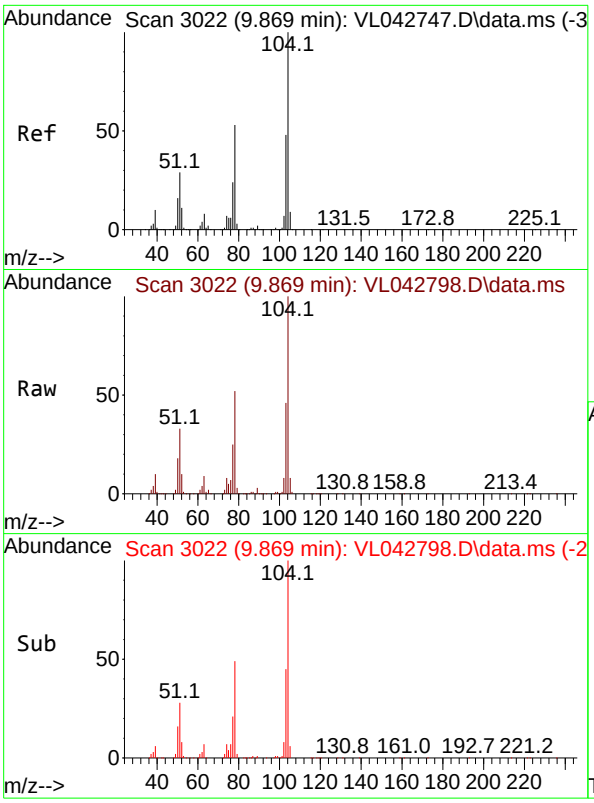


#60
o-Xylene
Concen: 11.631 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 91 Resp: 556987

Ion	Ratio	Lower	Upper
91	100		
106	43.8	22.0	66.0

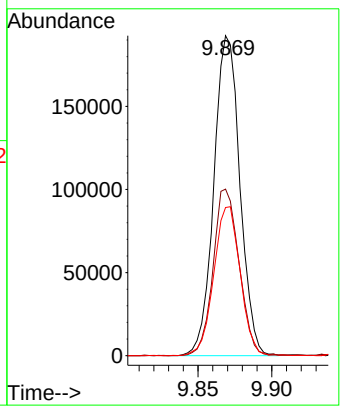




#61
Styrene
Concen: 11.739 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:104 Resp: 23646

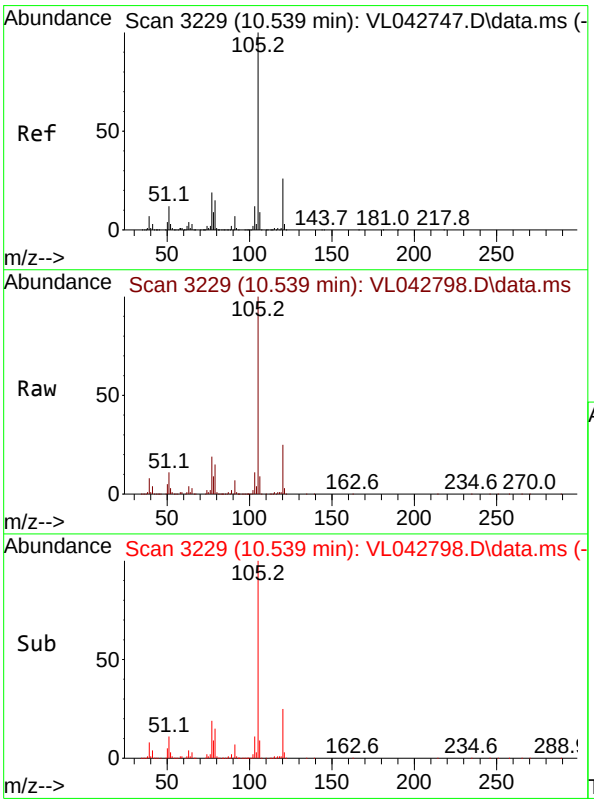
Ion	Ratio	Lower	Upper
104	100		
78	52.0	41.5	62.3
103	47.5	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

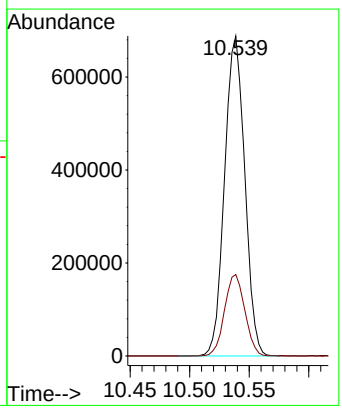
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

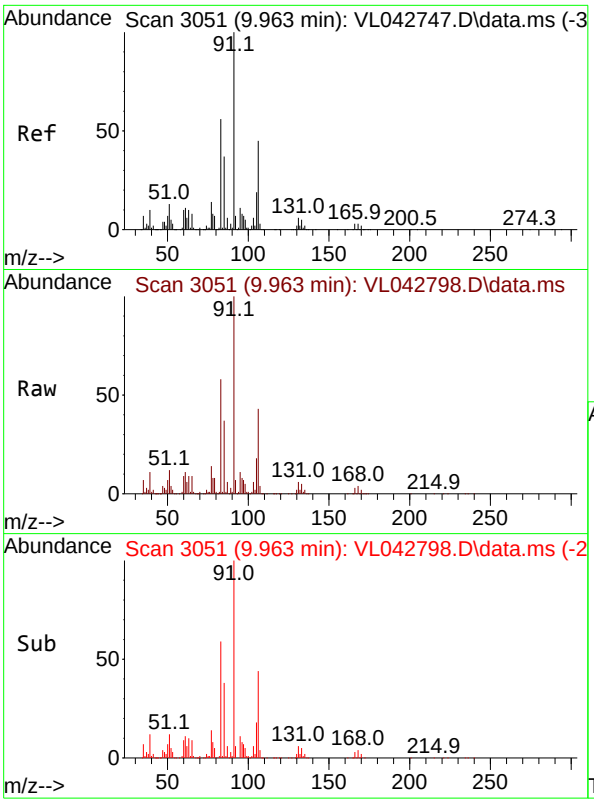


#62
Isopropylbenzene
Concen: 11.469 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:105 Resp: 810117

Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.5	30.7

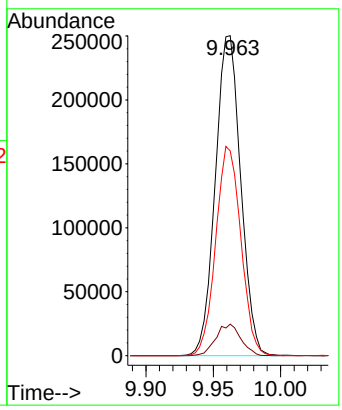




#63
1,1,2,2-Tetrachloroethane
Concen: 10.693 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 83 Resp: 32875

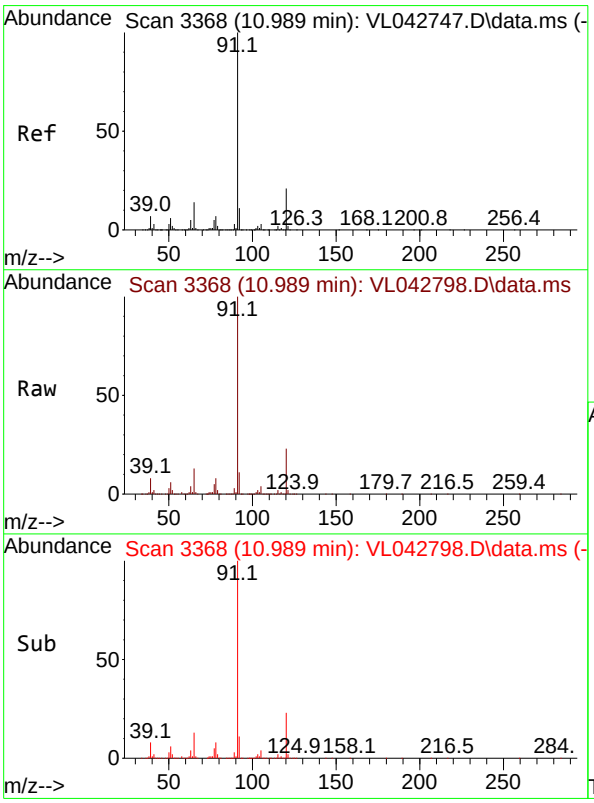
Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	15.0
85	64.6	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

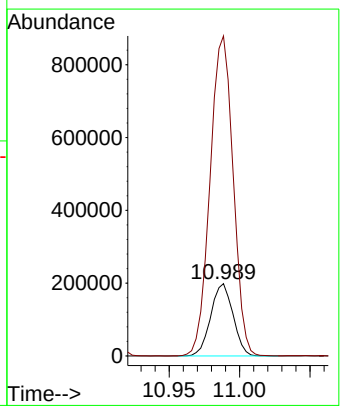
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

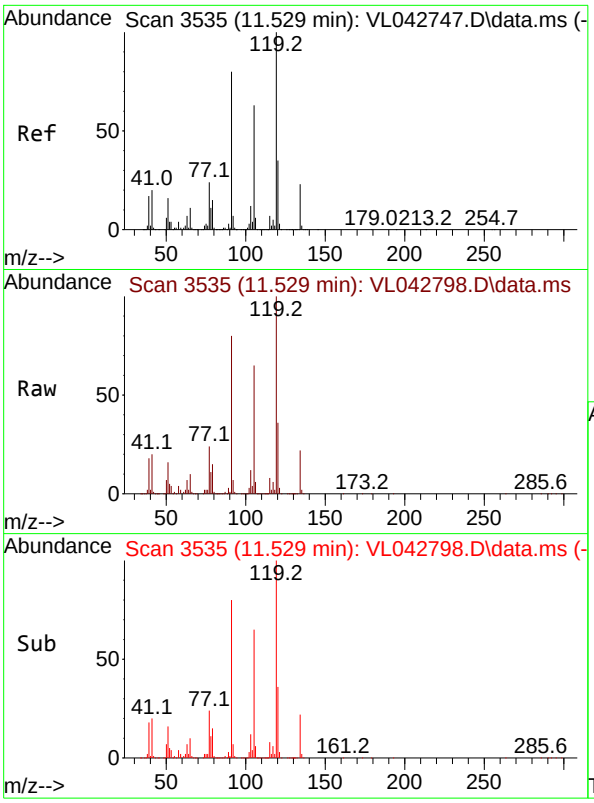


#64
n-propylbenzene
Concen: 11.857 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:120 Resp: 218340

Ion	Ratio	Lower	Upper
120	100		
91	459.6	372.7	559.1

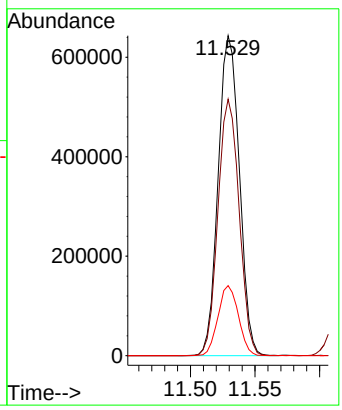




#65
tert-Butylbenzene
Concen: 11.686 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:119 Resp: 73319

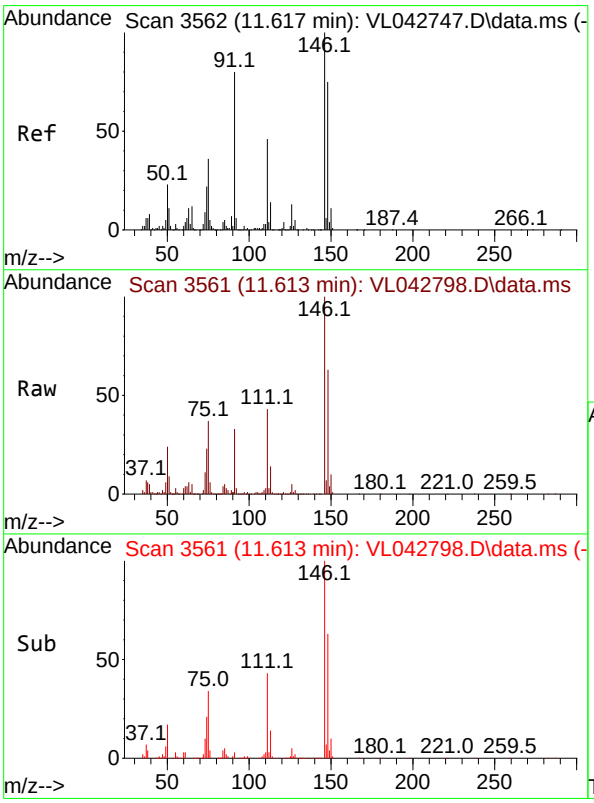
Ion	Ratio	Lower	Upper
119	100		
91	80.1	64.0	96.0
134	21.1	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

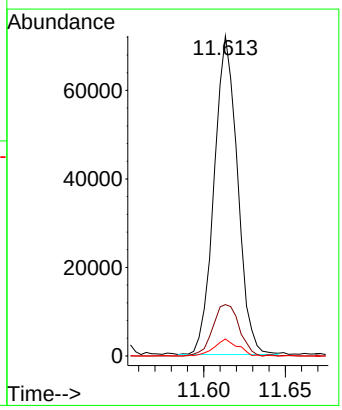
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

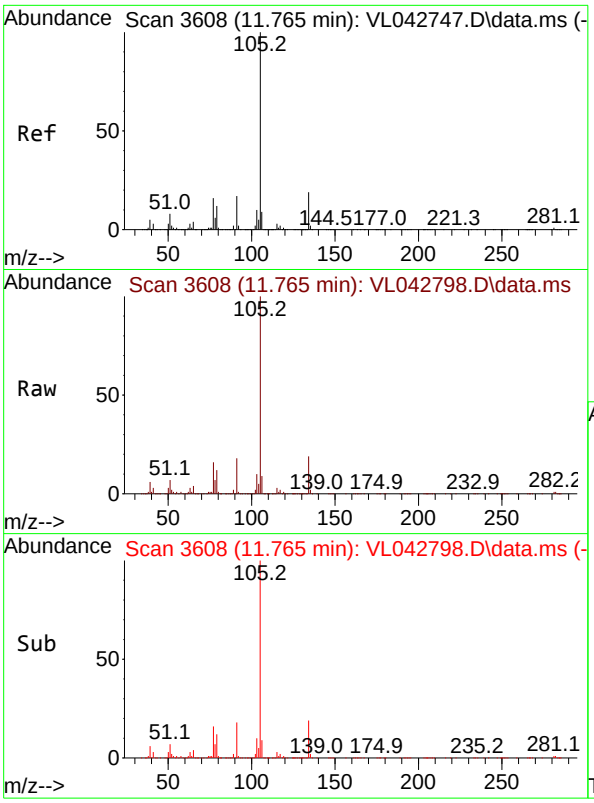


#66
Benzyl Chloride
Concen: 13.938 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 91 Resp: 71791

Ion	Ratio	Lower	Upper
91	100		
126	18.4	14.4	21.6
128	5.5	5.2	7.8





#67
sec-Butylbenzene
Concen: 11.457 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

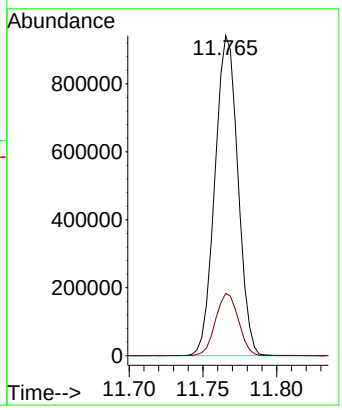
Tgt Ion:105 Resp: 102237

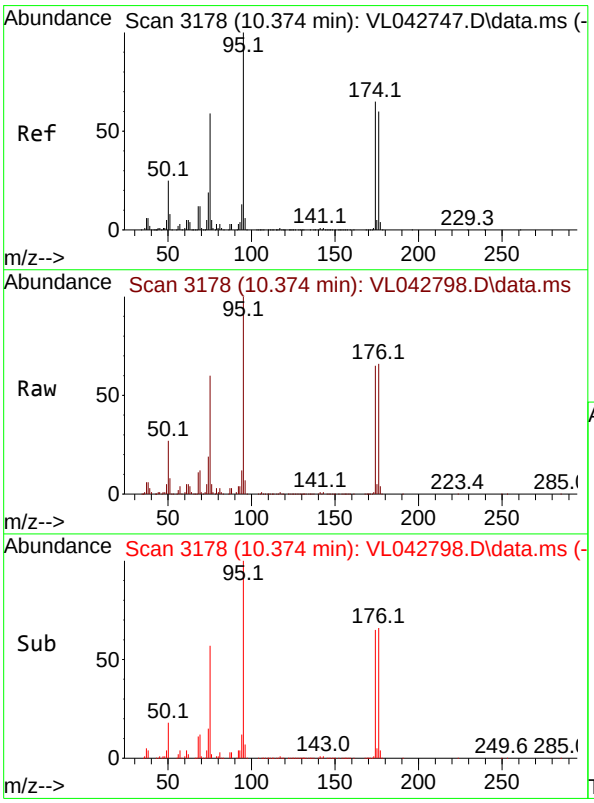
Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

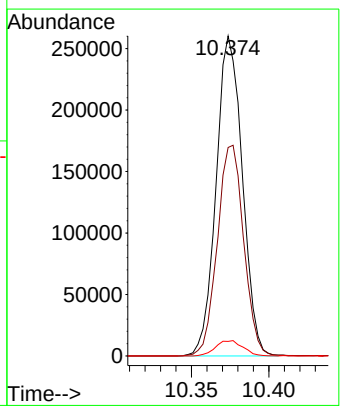


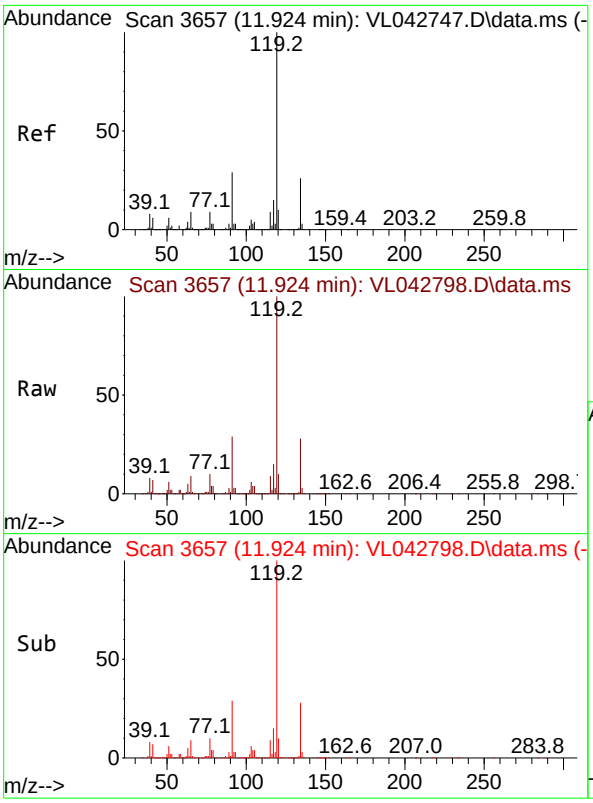


#68
1-Bromo-4-Fluorobenzene
Concen: 10.187 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 95 Resp: 306318

Ion	Ratio	Lower	Upper
95	100		
174	66.5	53.8	80.6
175	5.1	4.0	6.0

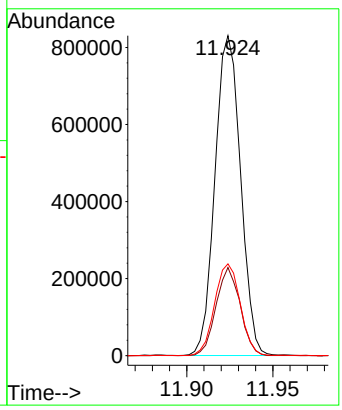




#69
p-Isopropyltoluene
Concen: 11.810 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:119 Resp: 85933

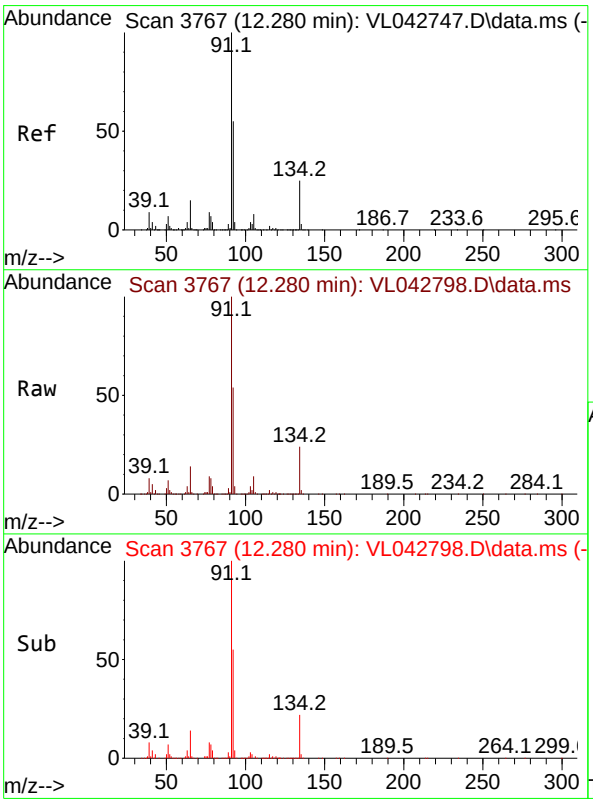
Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.6	31.0
91	29.0	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

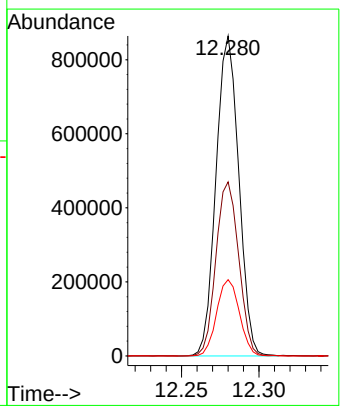
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

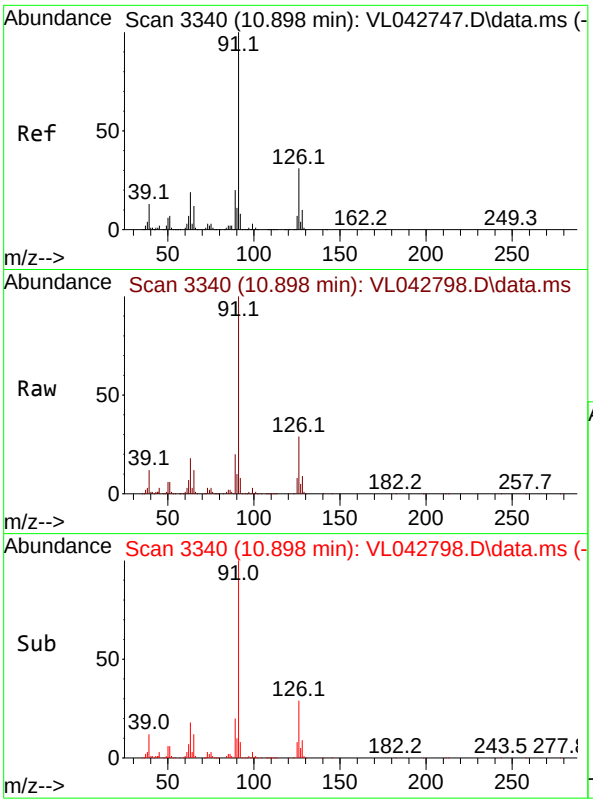


#70
n-Butylbenzene
Concen: 12.562 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 91 Resp: 882919

Ion	Ratio	Lower	Upper
91	100		
92	54.4	43.4	65.2
134	23.9	19.6	29.4

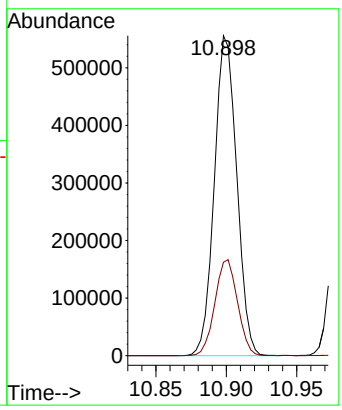




#71
2-Chlorotoluene
Concen: 11.381 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 91 Resp: 61642

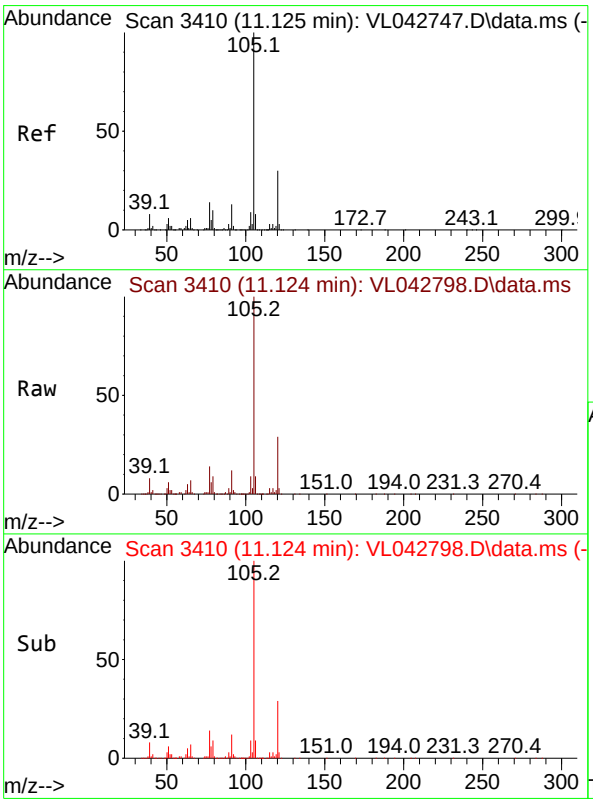
Ion	Ratio	Lower	Upper
91	100		
126	30.3	12.0	48.2



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

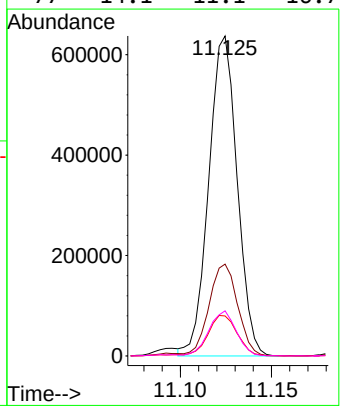
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

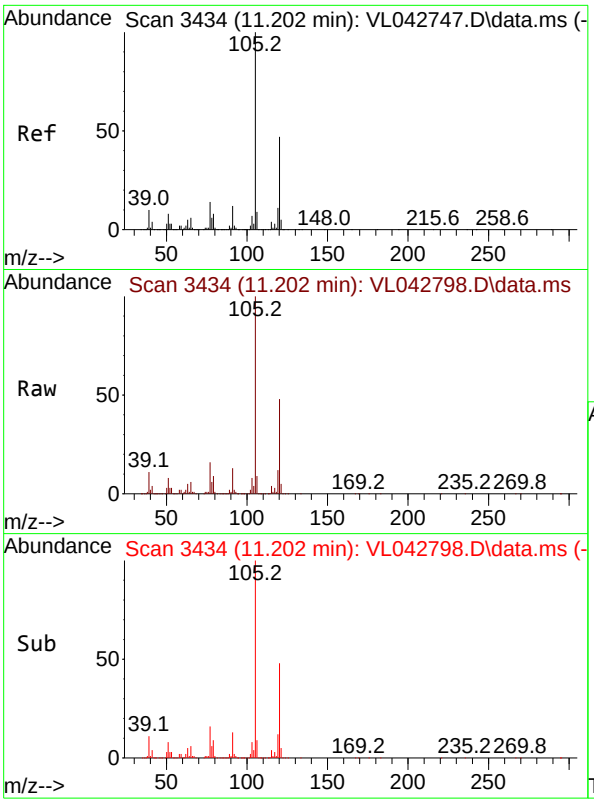


#72
4-Ethyltoluene
Concen: 12.083 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:105 Resp: 690989

Ion	Ratio	Lower	Upper
105	100		
120	29.7	24.4	36.6
91	13.3	10.6	15.8
77	14.1	11.1	16.7

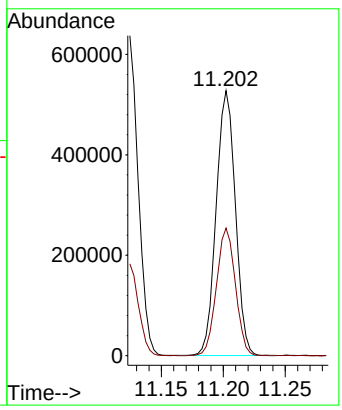




#73
1,3,5-Trimethylbenzene
Concen: 12.106 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:105 Resp: 57003

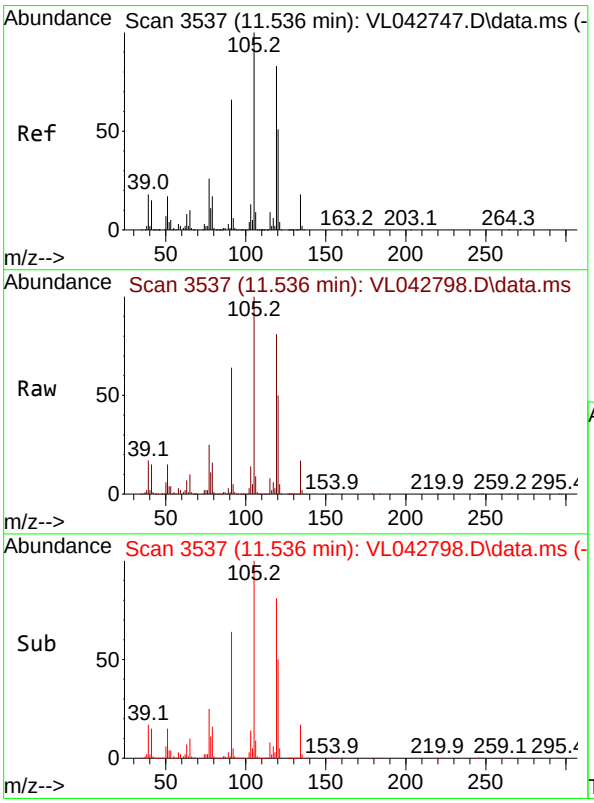
Ion	Ratio	Lower	Upper
105	100		
120	48.2	37.8	56.8



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

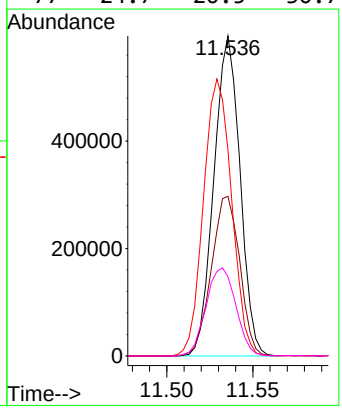
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

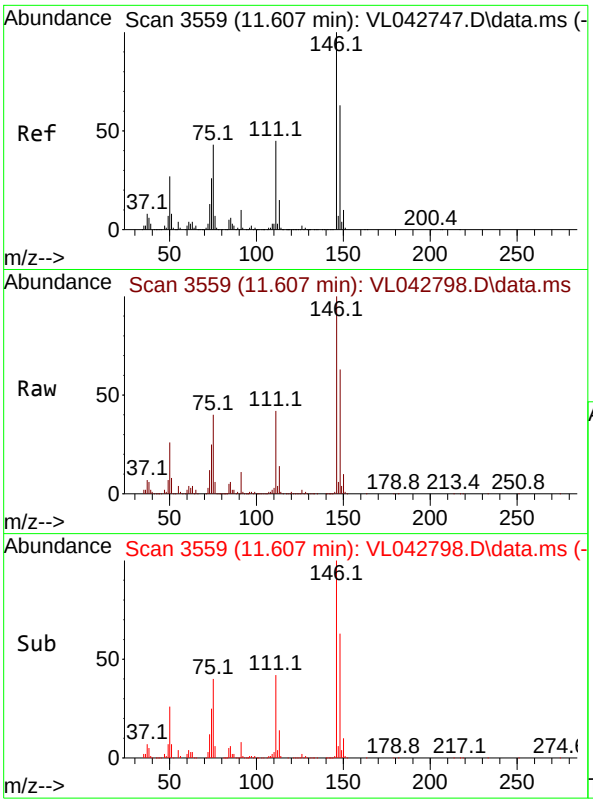


#74
1,2,4-Trimethylbenzene
Concen: 12.264 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:105 Resp: 629983

Ion	Ratio	Lower	Upper
105	100		
120	49.9	40.8	61.2
91	64.3	53.0	79.4
77	24.7	20.5	30.7

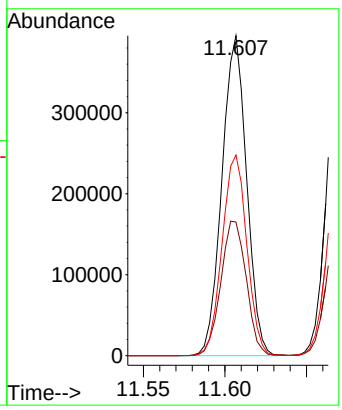




#75
1,3-Dichlorobenzene
Concen: 11.543 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:146 Resp: 41569

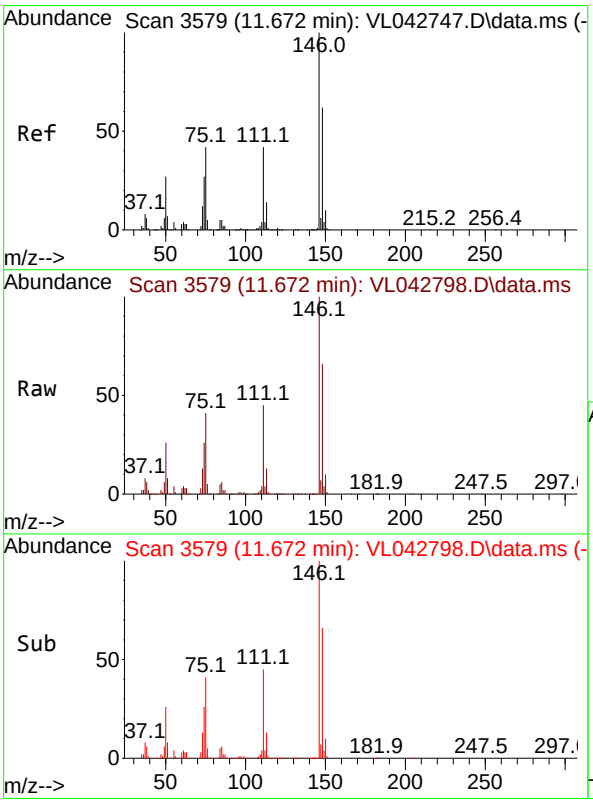
Ion	Ratio	Lower	Upper
146	100		
111	43.4	22.7	68.0
148	63.0	31.9	95.5



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

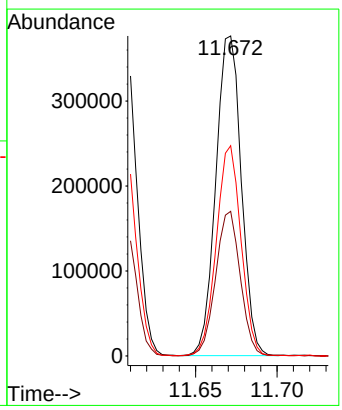
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

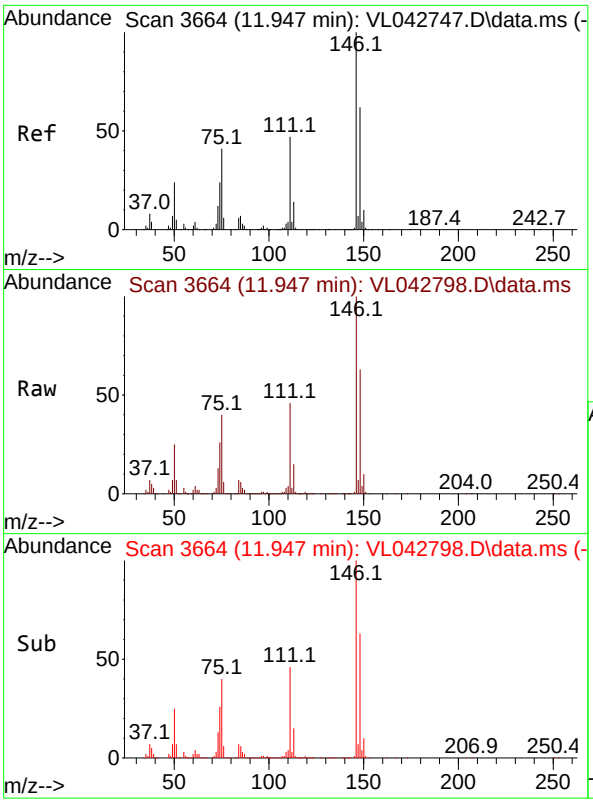


#76
1,4-Dichlorobenzene
Concen: 11.578 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:146 Resp: 408005

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.4	64.2
148	64.0	32.1	96.3

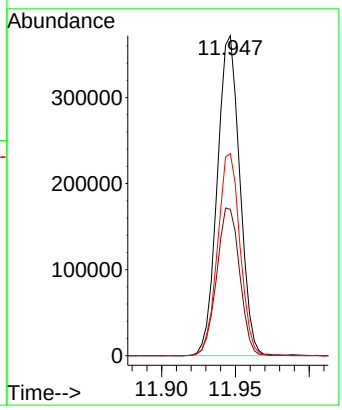




#77
1,2-Dichlorobenzene
Concen: 11.161 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:146 Resp: 39504

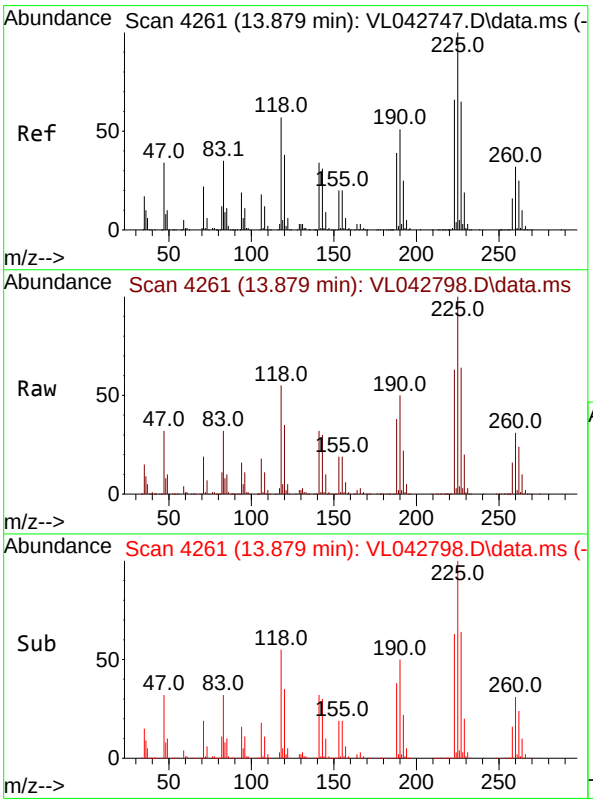
Ion	Ratio	Lower	Upper
146	100		
111	47.3	23.7	71.1
148	63.0	32.6	97.7



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

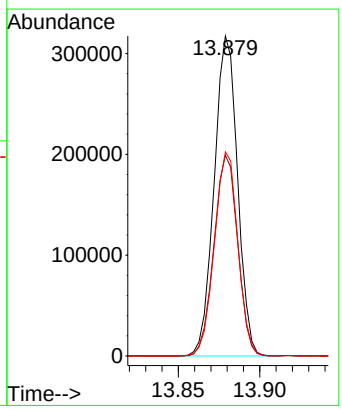
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

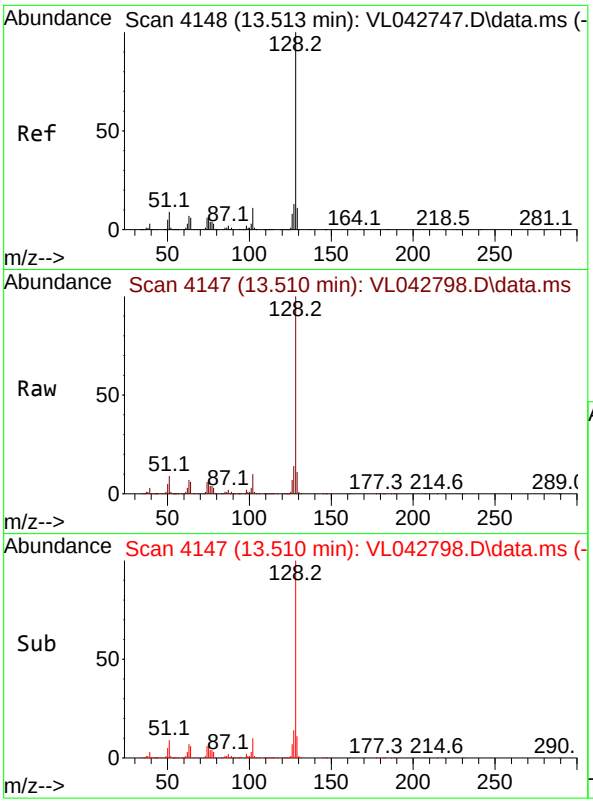


#78
Hexachloro-1,3-Butadiene
Concen: 9.853 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:225 Resp: 315657

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.7	76.1
227	64.1	50.5	75.7

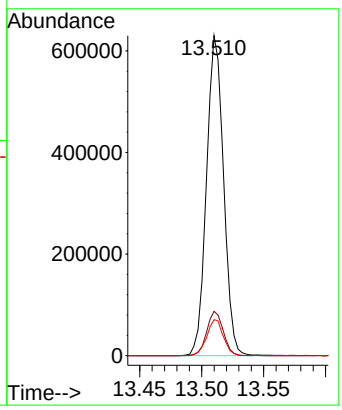




#79
Naphthalene
Concen: 10.821 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:128 Resp: 60527

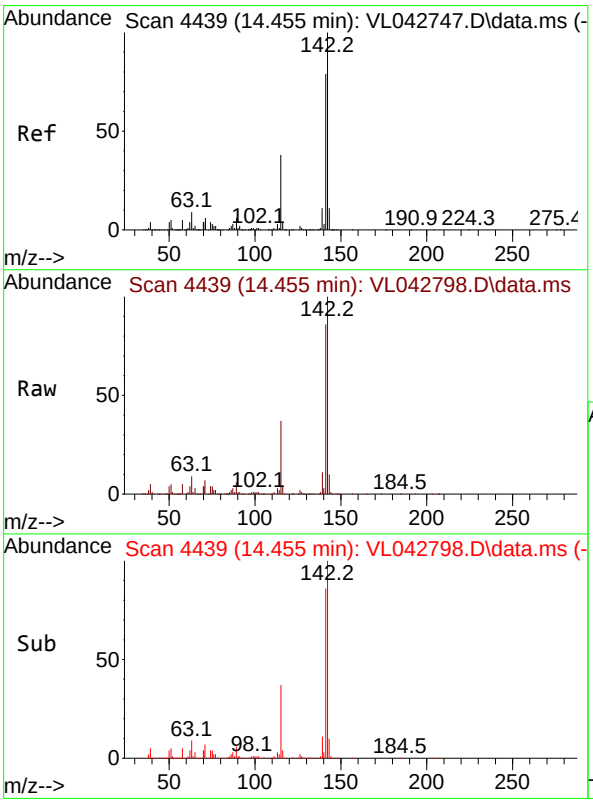
Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.5	15.7
129	11.3	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

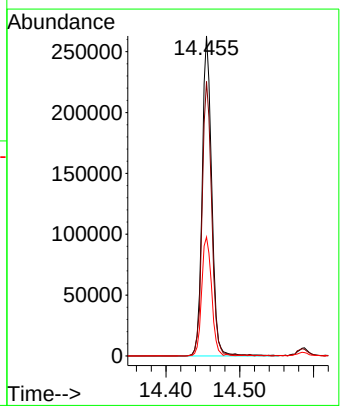
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

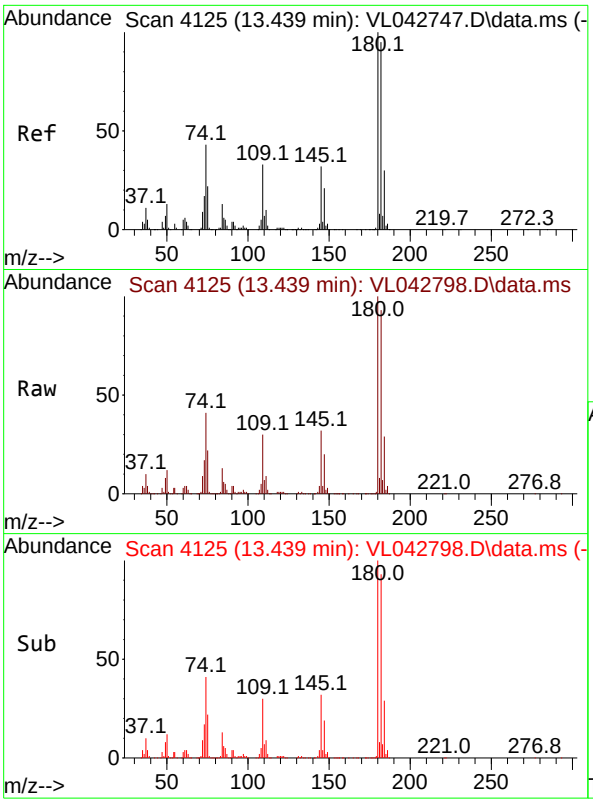


#80
Naphthalene,2-methyl-
Concen: 8.652 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:142 Resp: 236391

Ion	Ratio	Lower	Upper
142	100		
141	86.3	65.8	98.8
115	38.8	31.2	46.8

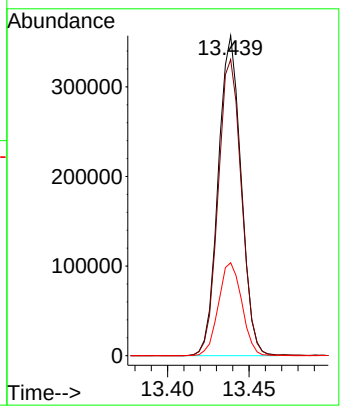




#81
1,2,4-Trichlorobenzene
Concen: 11.052 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:180 Resp: 34771

Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.2	114.2
184	29.9	24.8	37.2



Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/04/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/04/25
Client Sample ID:	WONDER IA-2DUP	SDG No.:	Q2750
Lab Sample ID:	Q2750-01DUP	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042800.D	1		08/04/25 12:23	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.55	2.72		0.54	2.47	ug/m3
74-87-3	Chloromethane	7.70	15.9		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.56	1.65		0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.20	1.12	J	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.26	1.07	J	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	95.8	228	E	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	3.40	10.6		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	2.20	7.64		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	1.60	4.72		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.11	0.69		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.81	3.96		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.27	0.86	J	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.83	3.13		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/04/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/04/25
Client Sample ID:	WONDER IA-2DUP	SDG No.:	Q2750
Lab Sample ID:	Q2750-01DUP	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042800.D	1		08/04/25 12:23	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.22	0.94	J	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.45	3.34	J	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.48	2.52		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	1.90	6.70		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			70 (65) - 130 (135)	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	172000		2.787			
540-36-3	1,4-Difluorobenzene	485000		3.952			
3114-55-4	Chlorobenzene-d5	420000		8.878			

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/04/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/04/25
Client Sample ID:	WONDER IA-2DUP	SDG No.:	Q2750
Lab Sample ID:	Q2750-01DUP	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042800.D	1		08/04/25 12:23	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042800.D
Acq On : 04 Aug 2025 12:23
Operator : SY/MD
Sample : Q2750-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:02:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	171645	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	484996	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	419893	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	351197	10.561	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	12466	0.549	ppbv		99
3) Chlorodifluoromethane	1.473	51	1678405	56.774	ppbv	#	79
4) Chloromethane	1.531	50	70791	7.710	ppbv		99
9) Propene	1.486	41	172174m	16.024	ppbv		
10) Heptane	4.985	43	7448m	0.257	ppbv		
11) Trichlorofluoromethane	1.874	101	4766	0.204	ppbv		89
13) Ethanol	1.726	45	4743135	6061.609	ppbv		93
15) Acetone	1.832	43	2271716	95.847	ppbv	#	77
19) Isopropyl Alcohol	1.991	45	26711107m	2120.728	ppbv		
20) Methylene Chloride	2.062	84	16776	2.246	ppbv		87
23) Vinyl Acetate	2.460	43	57901	2.015	ppbv	#	93
25) Ethyl Acetate	2.842	43	274990m	5.242	ppbv		
26) Hexane	2.823	57	42707	1.856	ppbv	#	1
27) Carbon Disulfide	2.146	76	67073	3.404	ppbv	#	65
29) Chloroform	2.849	83	28648	0.806	ppbv		88
34) 2-Butanone	2.564	43	55250	1.608	ppbv		93
35) Carbon Tetrachloride	3.765	117	3994m	0.111	ppbv		
36) Benzene	3.651	78	12369	0.269	ppbv		98
41) Tetrahydrofuran	3.065	42	9821m	0.562	ppbv		
44) 2,2,4-Trimethylpentane	4.642	57	8220m	0.110	ppbv		
52) Tetrachloroethene	8.215	164	592m	0.031	ppbv		
53) Toluene	6.927	91	40915	0.829	ppbv		95
59) m/p-Xylene	9.529	91	13111m	0.247	ppbv		
61) Styrene	9.869	104	4865	0.218	ppbv		93
69) p-Isopropyltoluene	11.924	119	54508	0.677	ppbv		95
79) Naphthalene	13.513	128	2980	0.481	ppbv	#	93
81) 1,2,4-Trichlorobenzene	13.442	180	654m	0.453	ppbv		

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

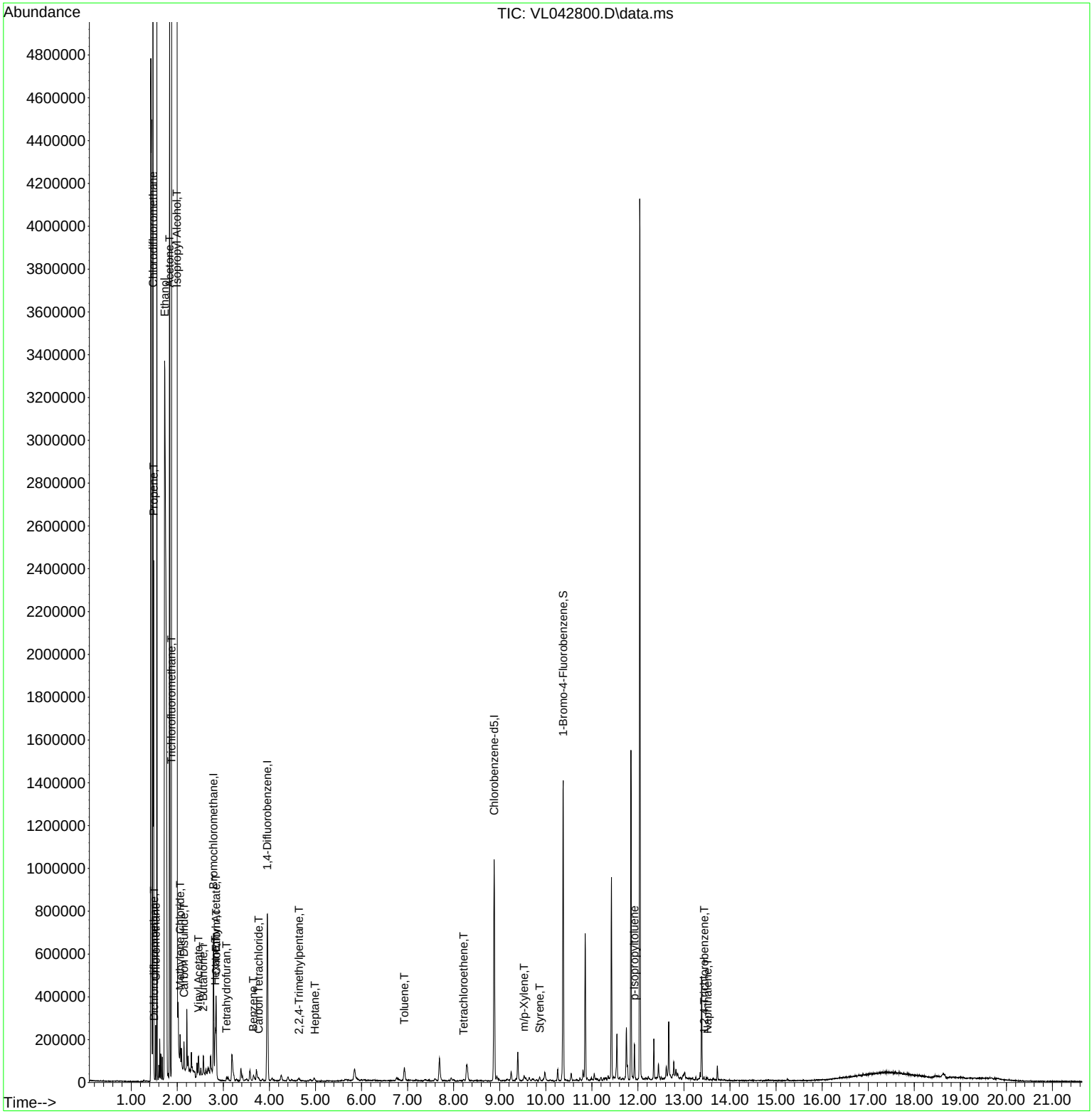
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042800.D
Acq On : 04 Aug 2025 12:23
Operator : SY/MD
Sample : Q2750-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

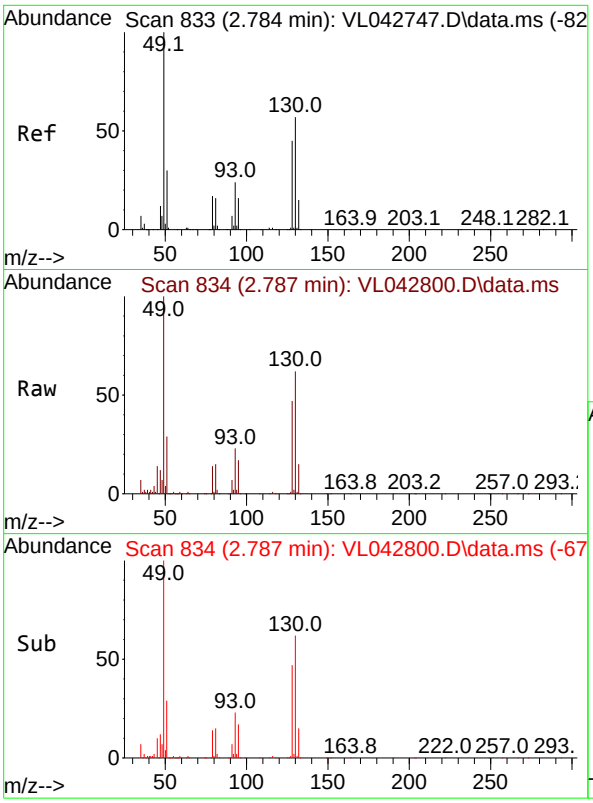
Quant Time: Aug 05 01:02:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

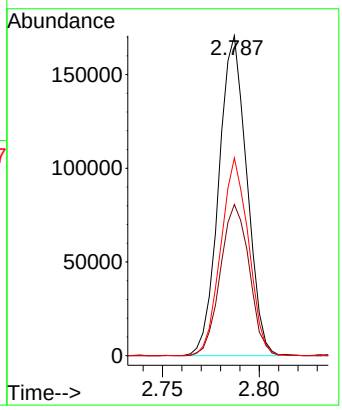




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 49 Resp: 17164

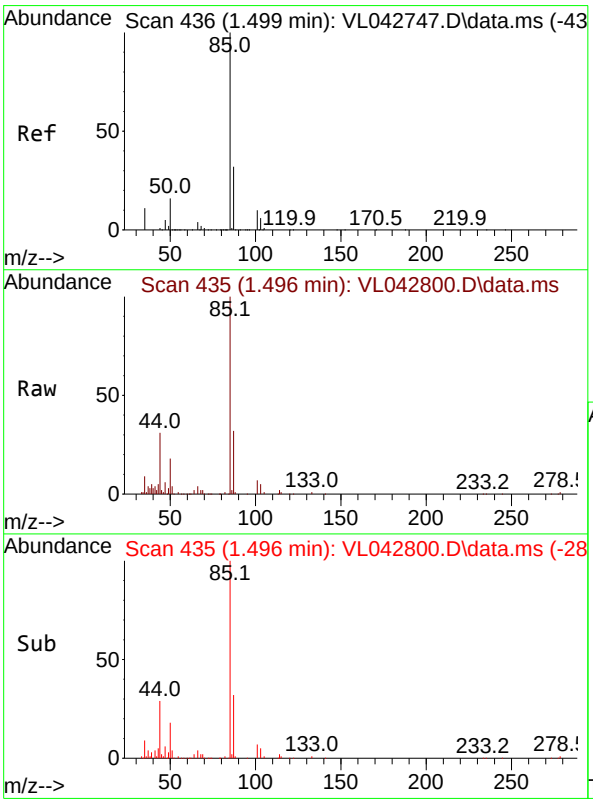
Ion	Ratio	Lower	Upper
49	100		
128	48.8	23.6	71.0
130	61.1	30.3	90.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

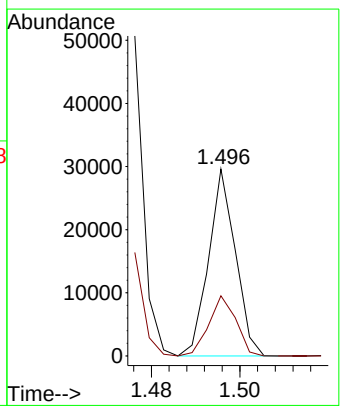
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

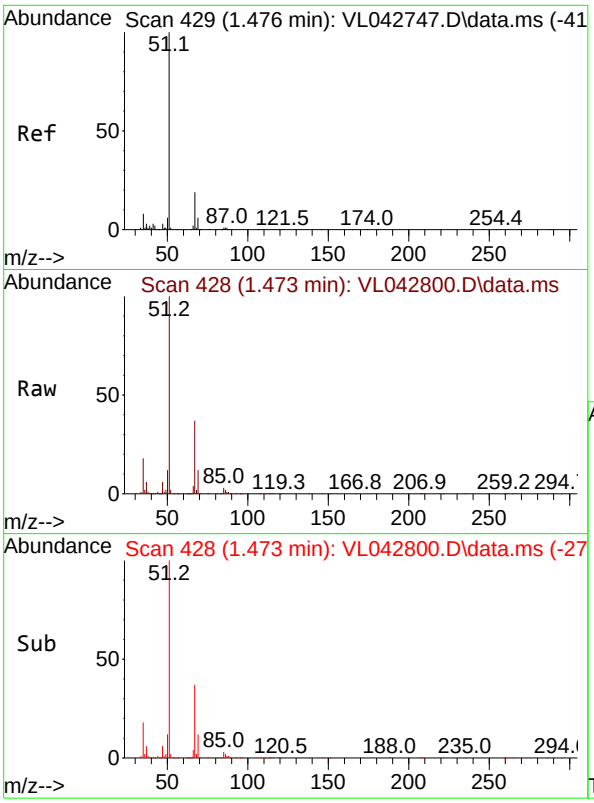


#2
Dichlorodifluoromethane
Concen: 0.549 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 85 Resp: 12466

Ion	Ratio	Lower	Upper
85	100		
87	32.2	25.4	38.2

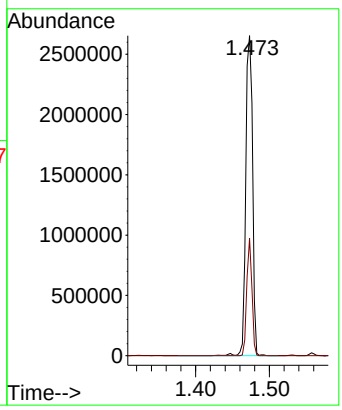




#3
Chlorodifluoromethane
Concen: 56.774 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 51 Resp: 167840

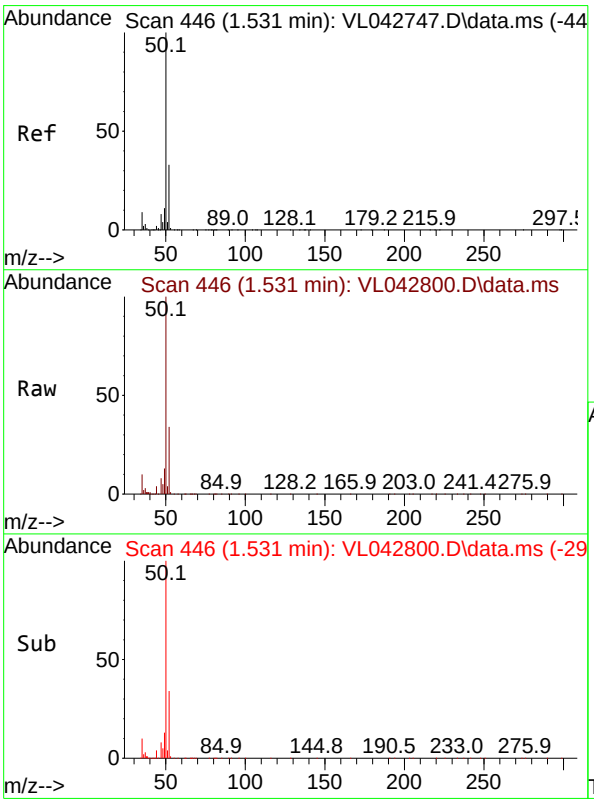
Ion	Ratio	Lower	Upper
51	100		
67	28.1	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

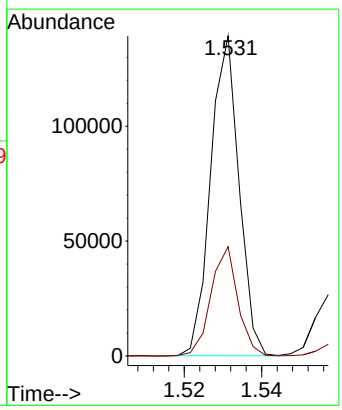
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

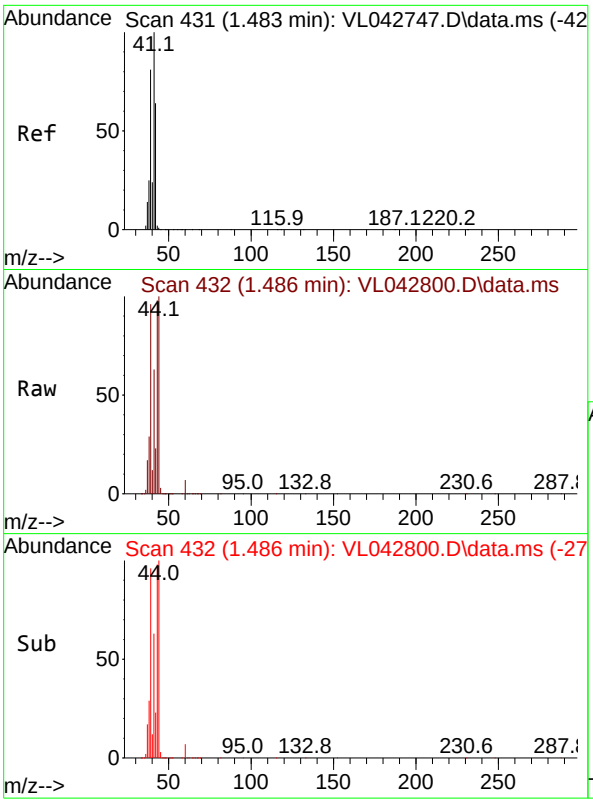


#4
Chloromethane
Concen: 7.710 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 50 Resp: 70791

Ion	Ratio	Lower	Upper
50	100		
52	34.1	26.6	40.0

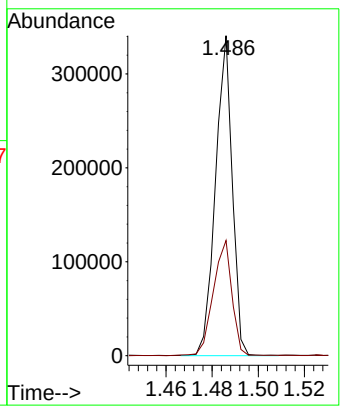




#9
Propene
Concen: 16.024 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 41 Resp: 17217

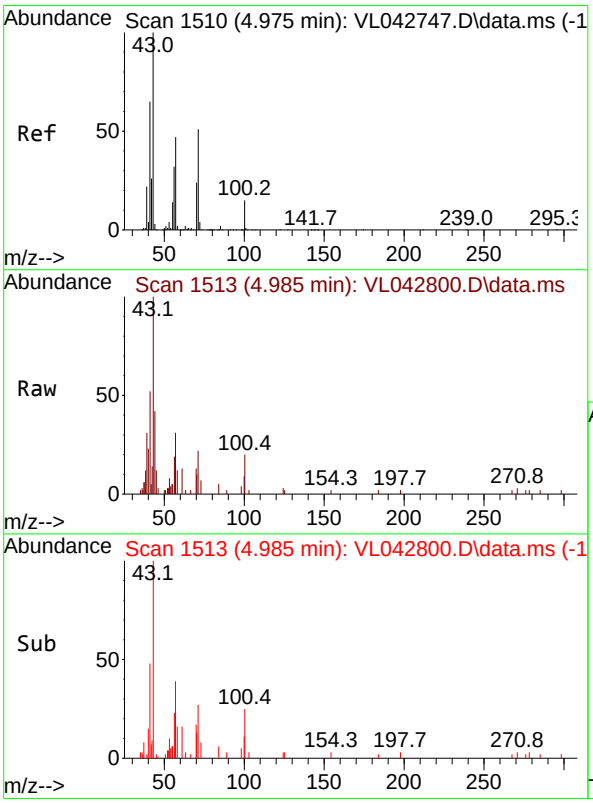
Ion	Ratio	Lower	Upper
41	100		
42	227.8	53.2	79.8#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

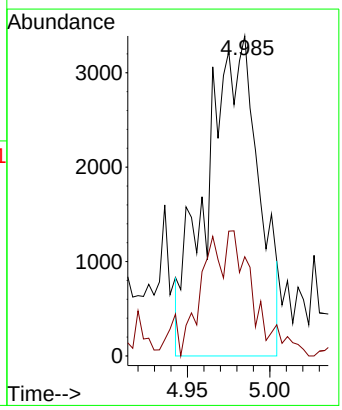
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

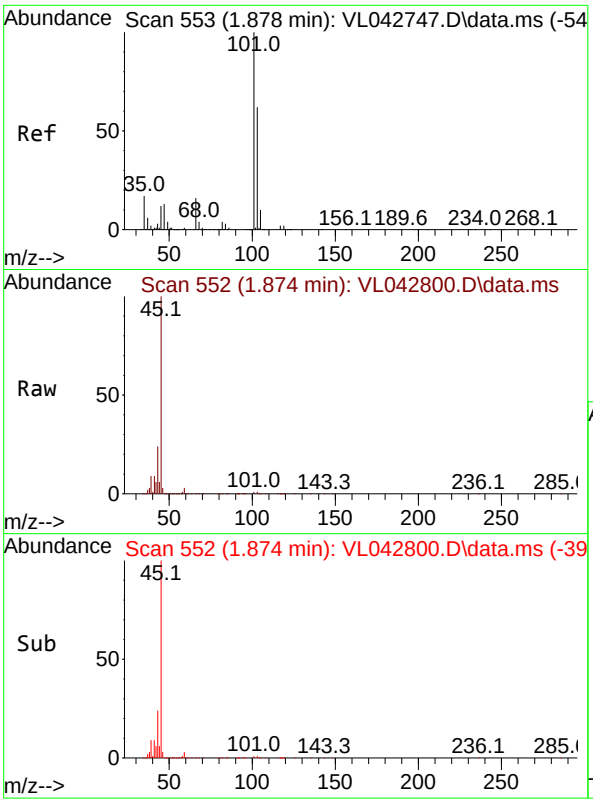


#10
Heptane
Concen: 0.257 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. 0.010 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 43 Resp: 7448

Ion	Ratio	Lower	Upper
43	100		
57	38.3	39.9	59.9#

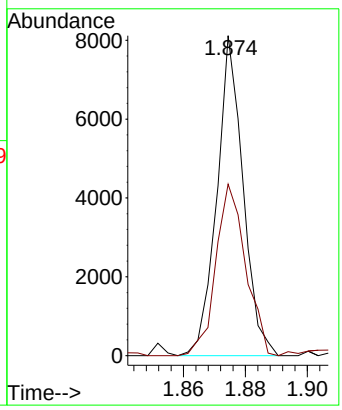




#11
Trichlorofluoromethane
Concen: 0.204 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:101 Resp: 476

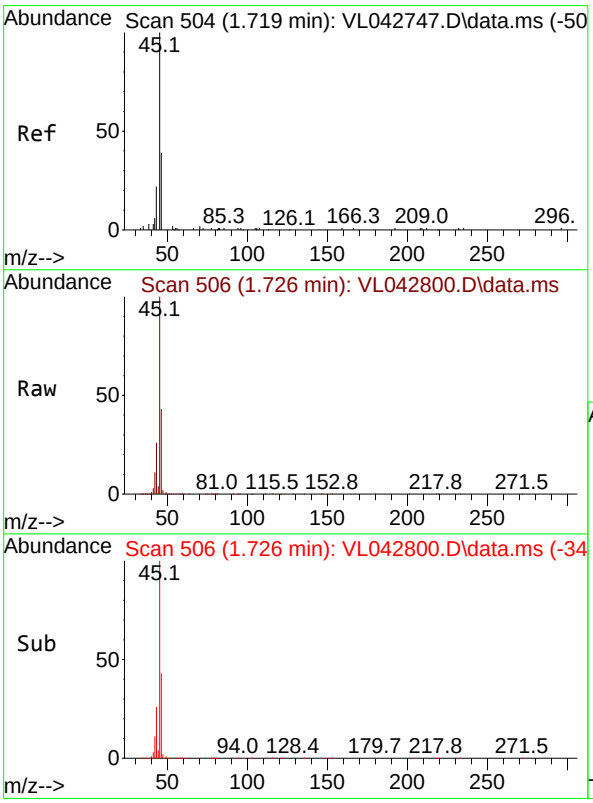
Ion	Ratio	Lower	Upper
101	100		
103	53.6	49.6	74.4



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

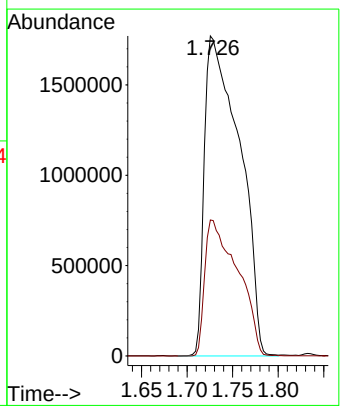
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

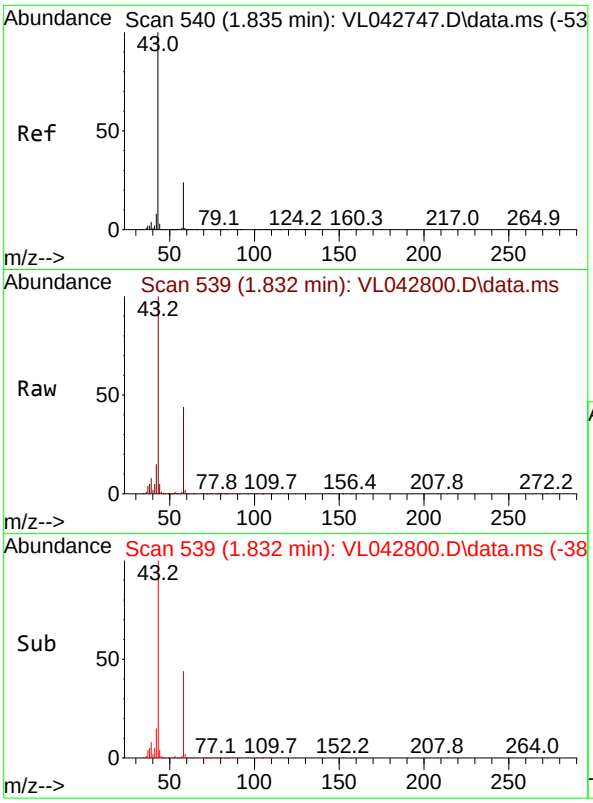


#13
Ethanol
Concen: 6061.609 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 45 Resp: 4743135

Ion	Ratio	Lower	Upper
45	100		
46	40.0	17.8	71.4





#15
Acetone
Concen: 95.847 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

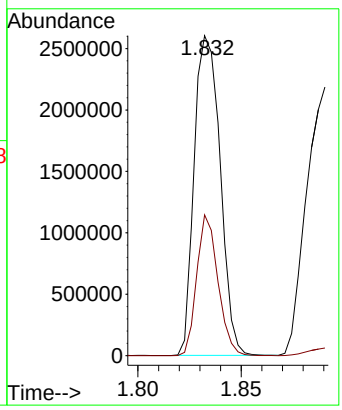
Tgt Ion: 43 Resp: 227171

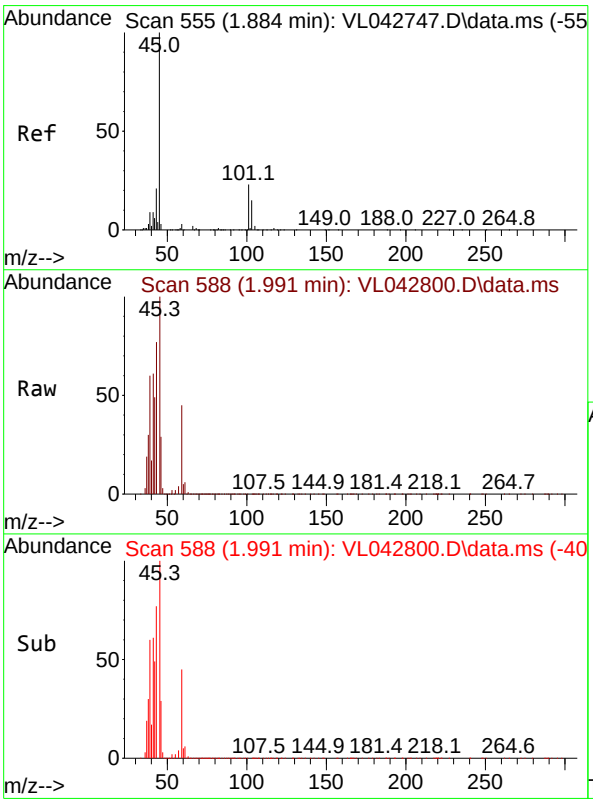
Ion	Ratio	Lower	Upper
43	100		
58	36.1	19.8	29.8#

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

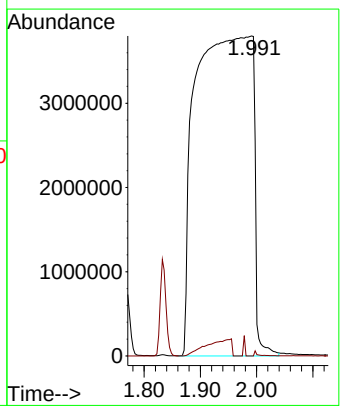


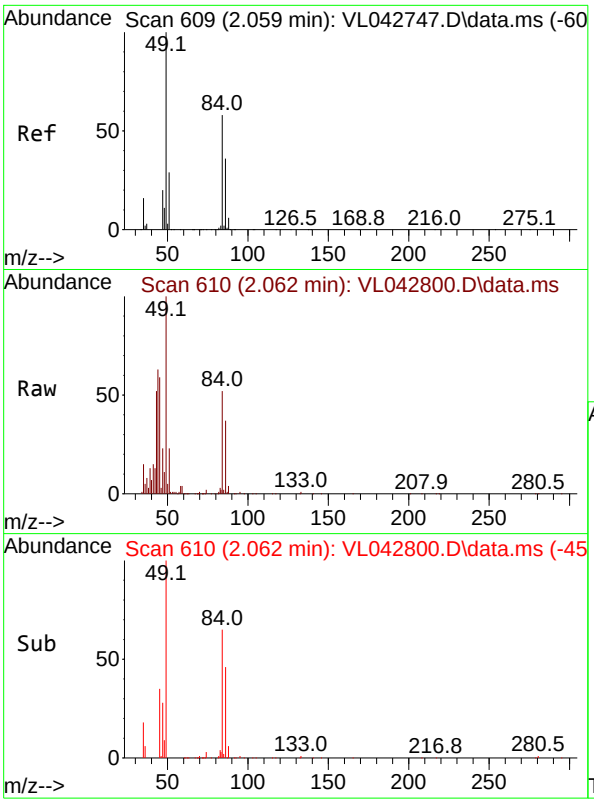


#19
Isopropyl Alcohol
Concen: 2120.728 ppbv m
RT: 1.991 min Scan# 588
Delta R.T. 0.107 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 45 Resp:26711107

Ion	Ratio	Lower	Upper
45	100		
58	0.3	30.0	45.0#

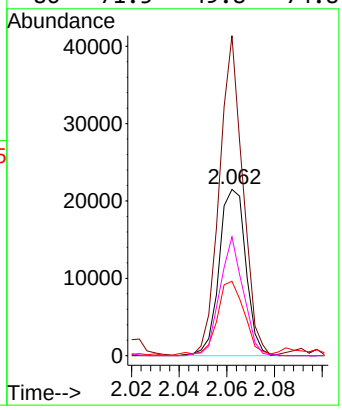




#20
Methylene Chloride
Concen: 2.246 ppbv
RT: 2.062 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 84 Resp: 1677

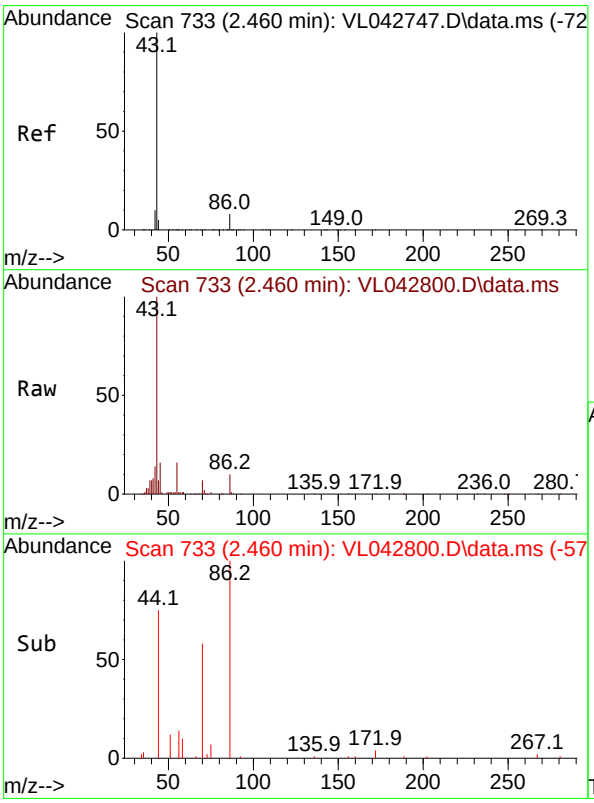
Ion	Ratio	Lower	Upper
84	100		
49	192.4	138.6	208.0
51	43.7	40.6	61.0
86	71.5	49.8	74.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

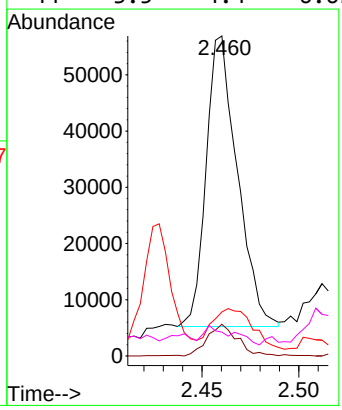
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

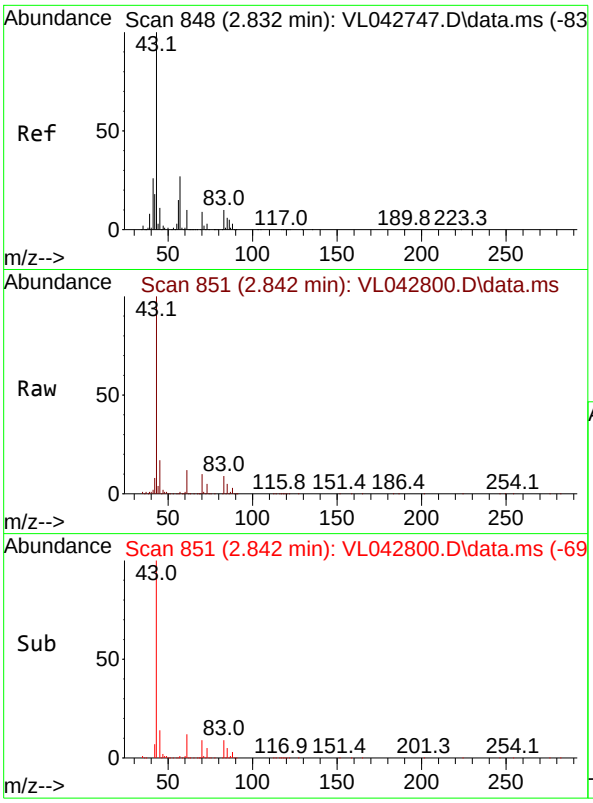


#23
Vinyl Acetate
Concen: 2.015 ppbv
RT: 2.460 min Scan# 733
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 43 Resp: 57901

Ion	Ratio	Lower	Upper
43	100		
86	10.8	6.1	9.1#
42	12.1	7.8	11.8#
44	3.5	4.4	6.6#

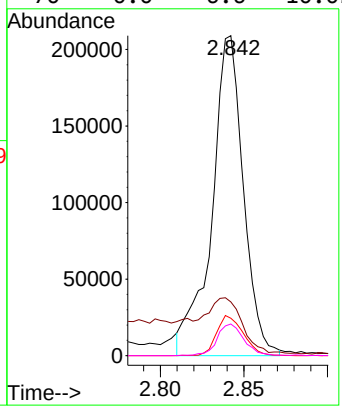




#25
Ethyl Acetate
Concen: 5.242 ppbv m
RT: 2.842 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 43 Resp: 27499

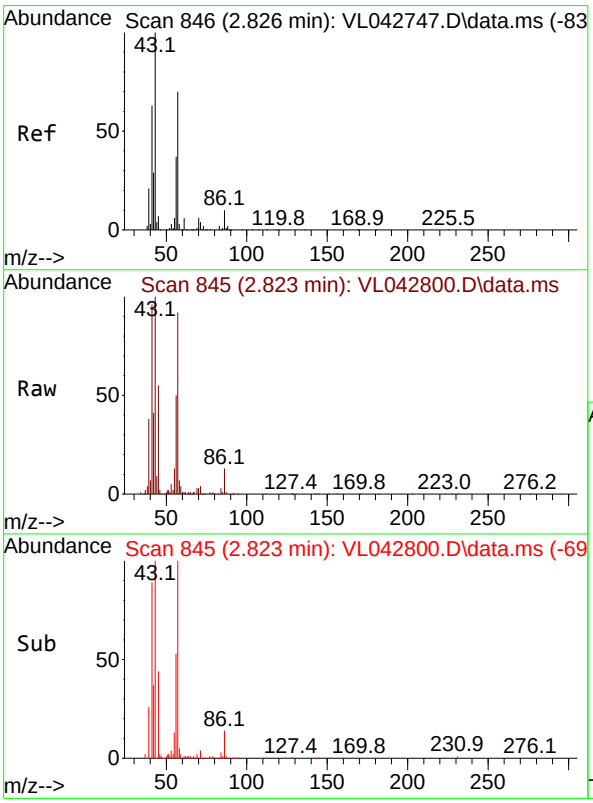
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	6.7	10.1#
70	0.0	6.6	10.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

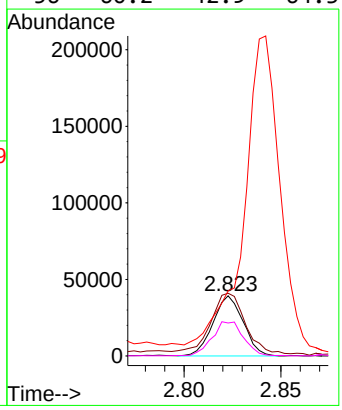
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

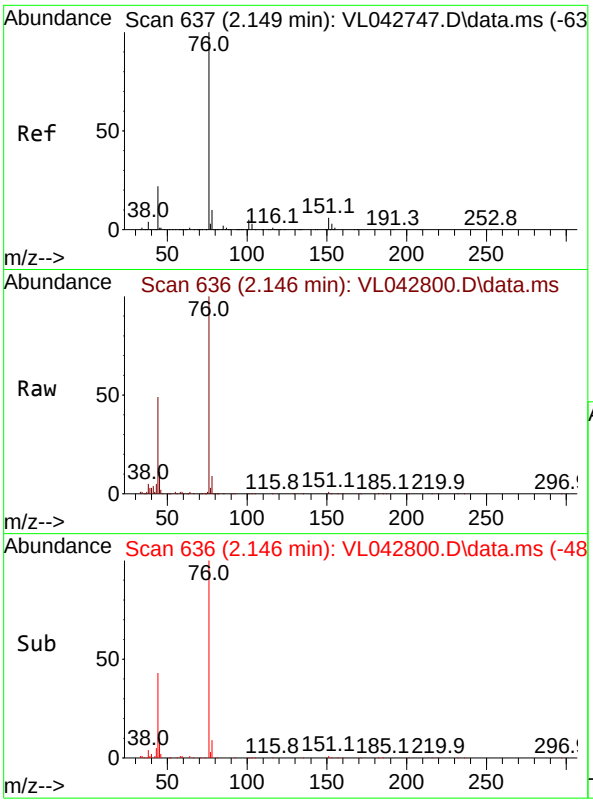


#26
Hexane
Concen: 1.856 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 57 Resp: 42707

Ion	Ratio	Lower	Upper
57	100		
41	135.4	75.4	113.2#
43	682.6	185.0	277.6#
56	60.2	42.9	64.3

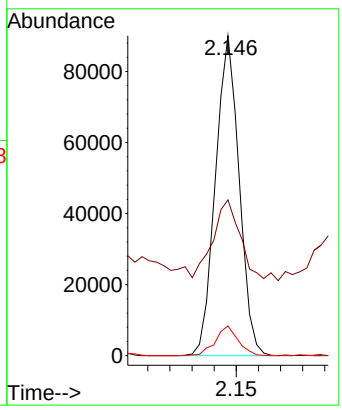




#27
Carbon Disulfide
Concen: 3.404 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 76 Resp: 6707

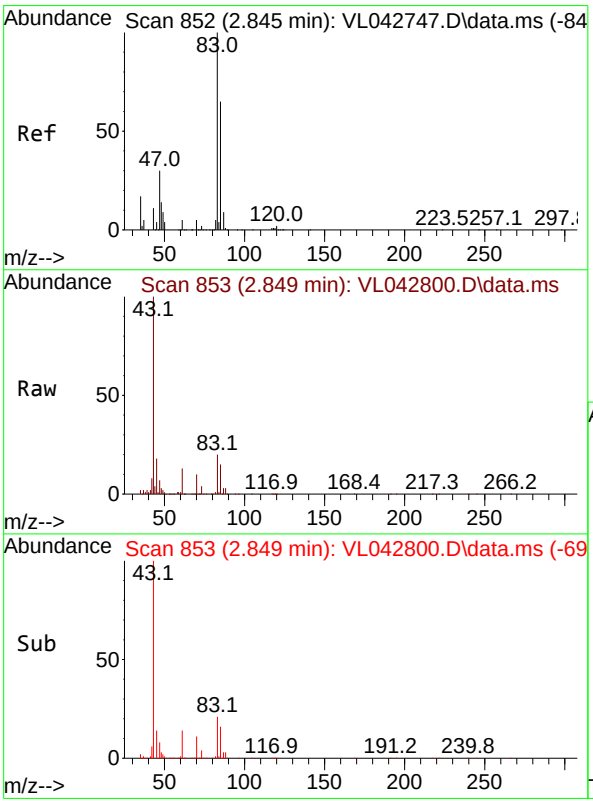
Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	8.9	9.9	14.9#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations APPROVED

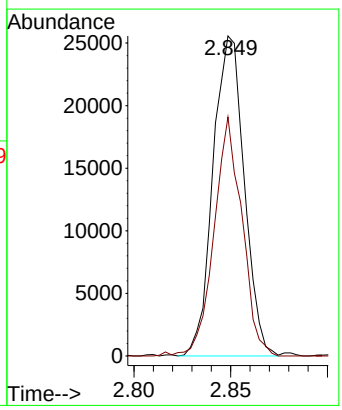
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

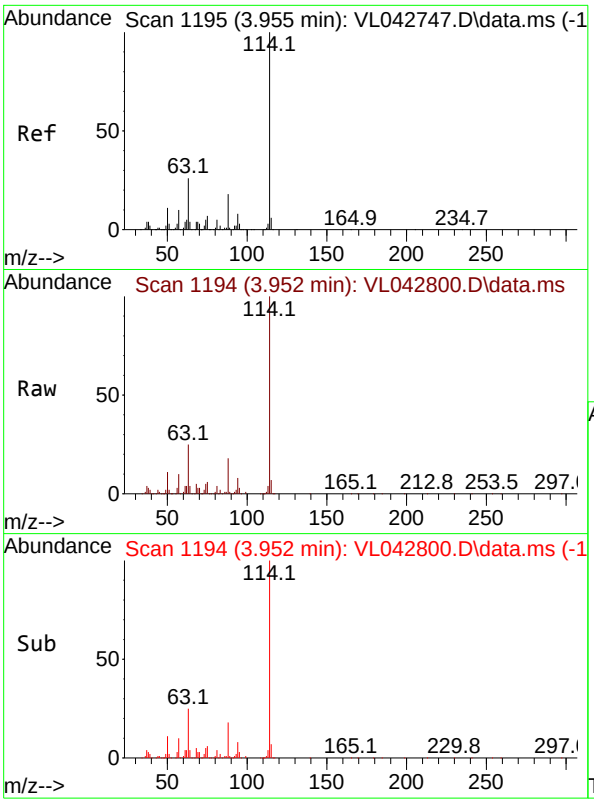


#29
Chloroform
Concen: 0.806 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 83 Resp: 28648

Ion	Ratio	Lower	Upper
83	100		
85	74.7	52.2	78.2

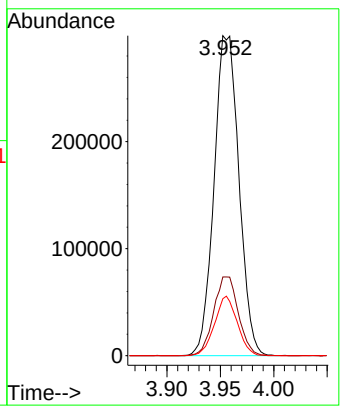




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:114 Resp: 48499

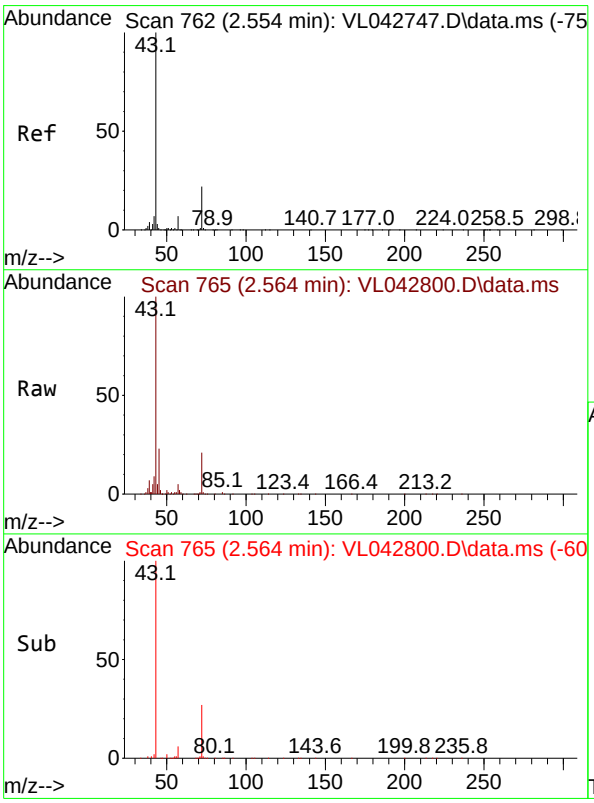
Ion	Ratio	Lower	Upper
114	100		
63	24.4	20.5	30.7
88	17.0	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

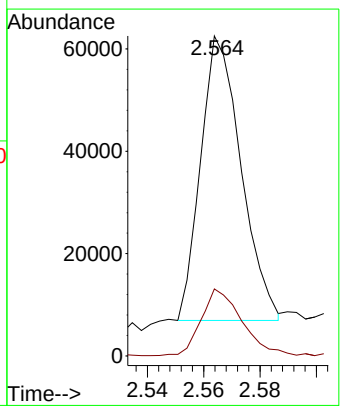
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

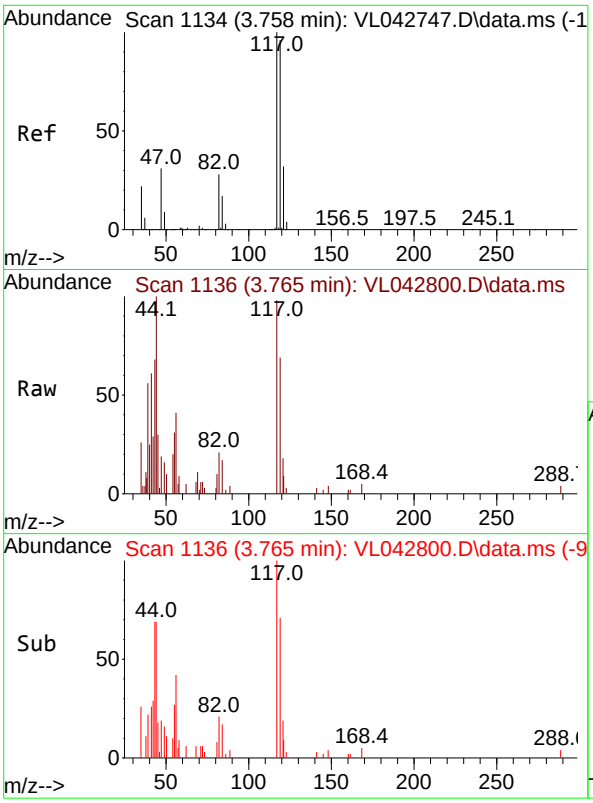


#34
2-Butanone
Concen: 1.608 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 43 Resp: 55250

Ion	Ratio	Lower	Upper
43	100		
72	25.0	17.4	26.0

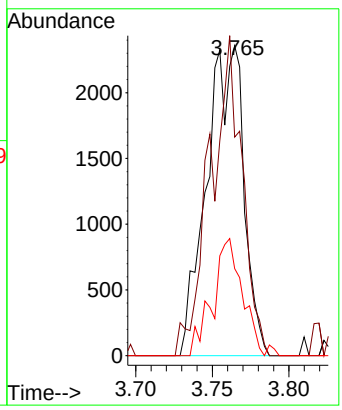




#35
Carbon Tetrachloride
Concen: 0.111 ppbv m
RT: 3.765 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:117 Resp: 399

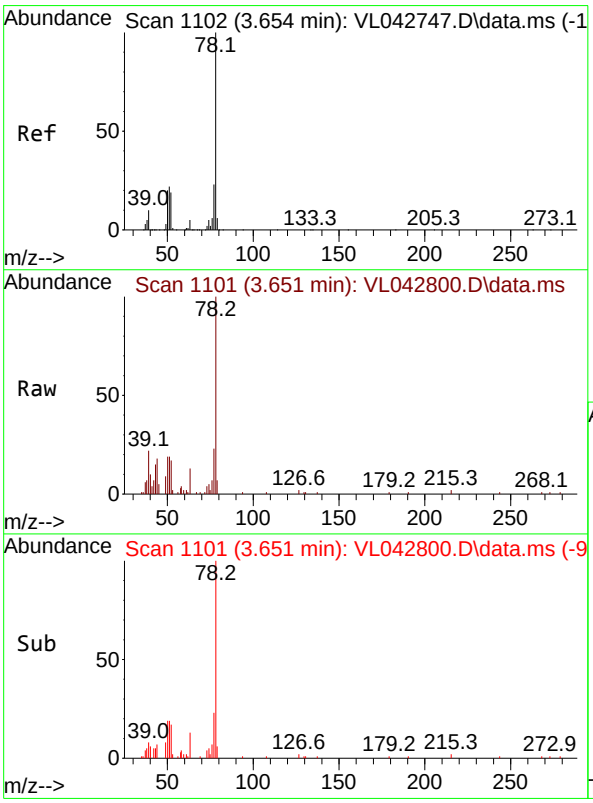
Ion	Ratio	Lower	Upper
117	100		
119	70.5	77.1	115.7#
121	18.6	25.5	38.3#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

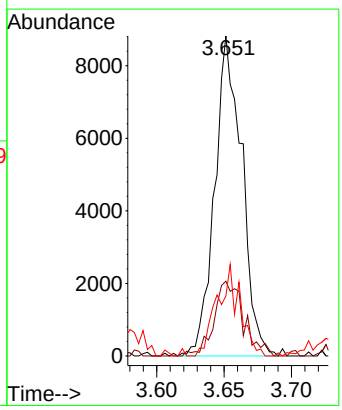
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

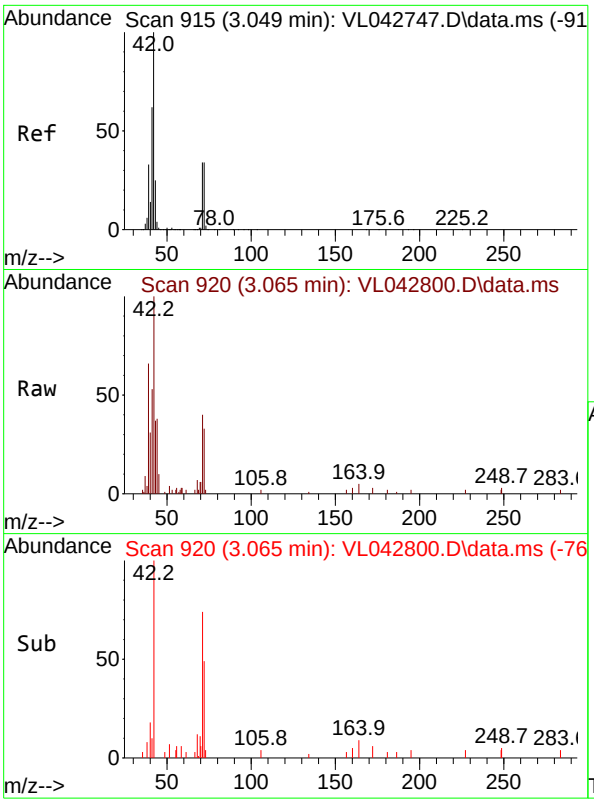


#36
Benzene
Concen: 0.269 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 78 Resp: 12369

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.5	27.7
50	18.8	16.2	24.2

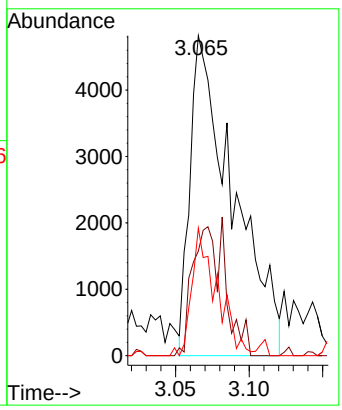




#41
Tetrahydrofuran
Concen: 0.562 ppbv m
RT: 3.065 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 42 Resp: 982

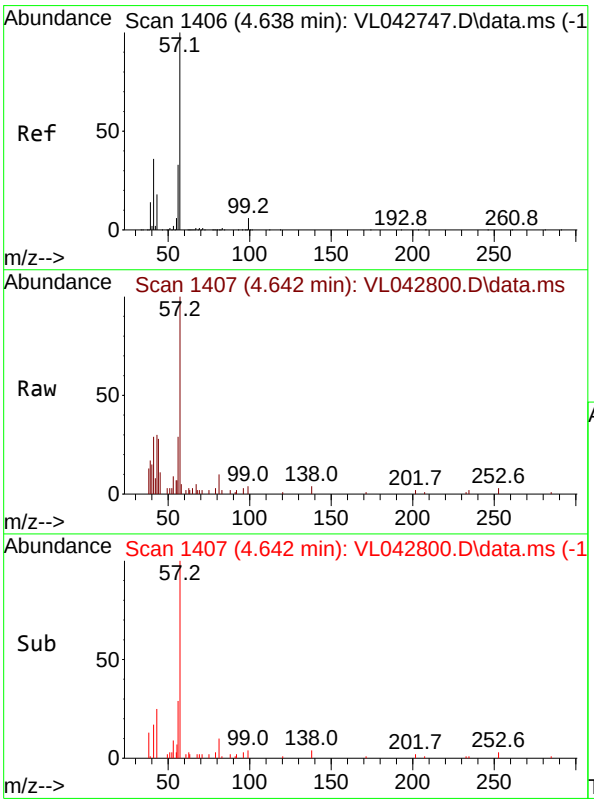
Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	23.1	28.6	43.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

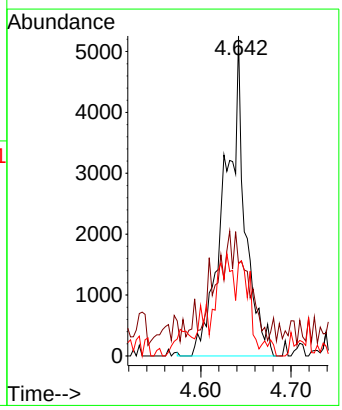
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

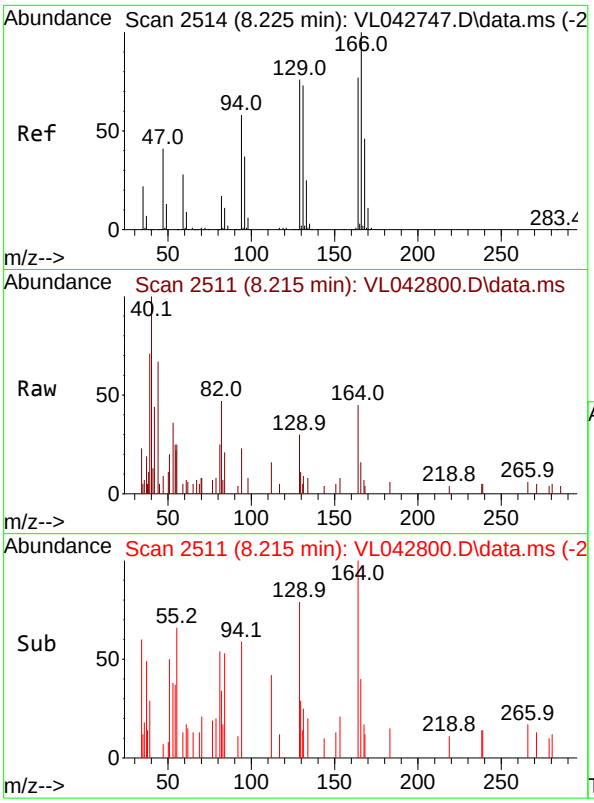


#44
2,2,4-Trimethylpentane
Concen: 0.110 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 57 Resp: 8220

Ion	Ratio	Lower	Upper
57	100		
41	67.3	28.3	42.5#
56	60.4	25.8	38.6#

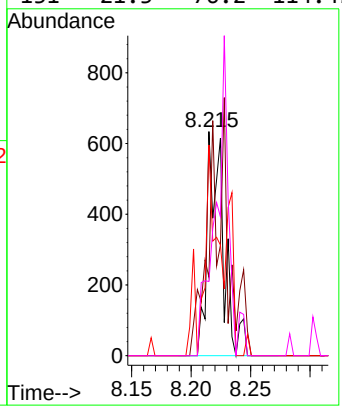




#52
Tetrachloroethene
Concen: 0.031 ppbv m
RT: 8.215 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:164 Resp: 59

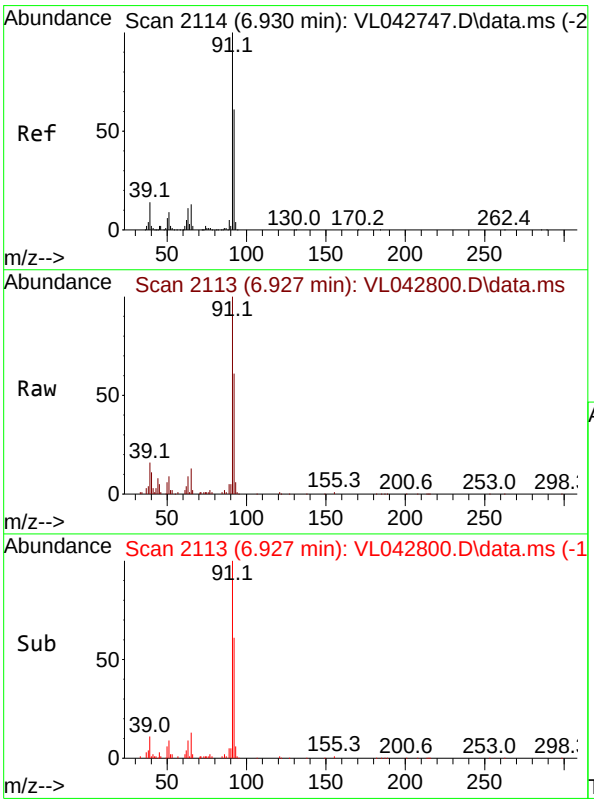
Ion	Ratio	Lower	Upper
164	100		
166	35.0	104.0	156.0#
129	68.5	79.2	118.8#
131	21.3	76.2	114.4#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

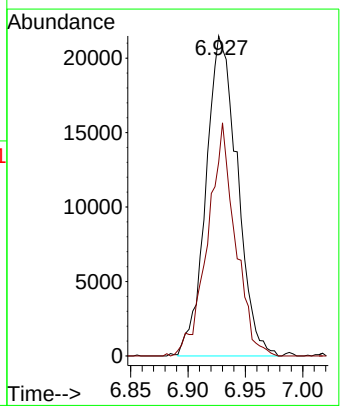
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

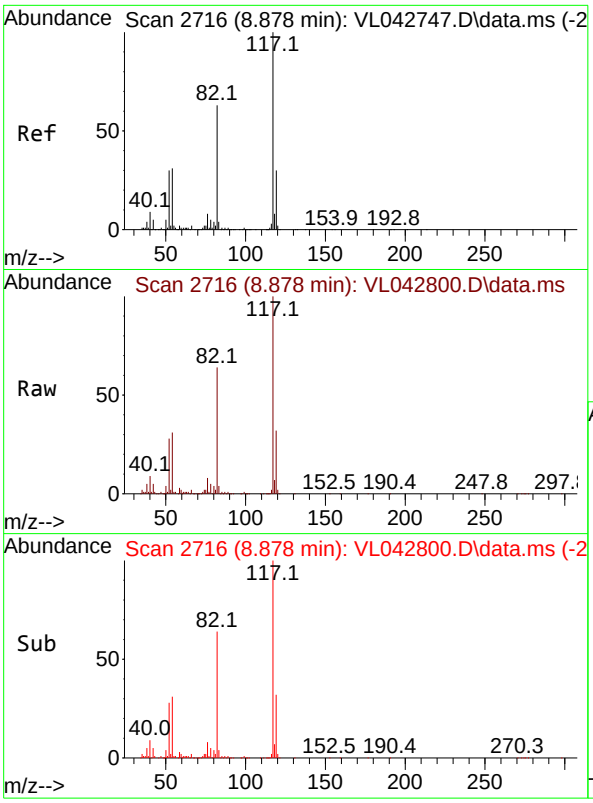


#53
Toluene
Concen: 0.829 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 91 Resp: 40915

Ion	Ratio	Lower	Upper
91	100		
92	64.1	48.0	72.0

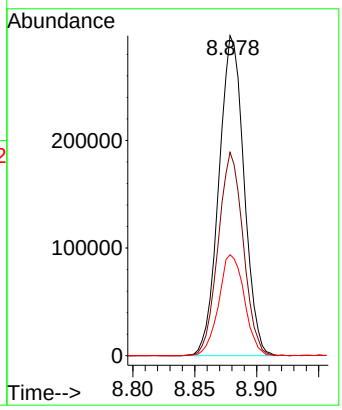




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:117 Resp: 41989

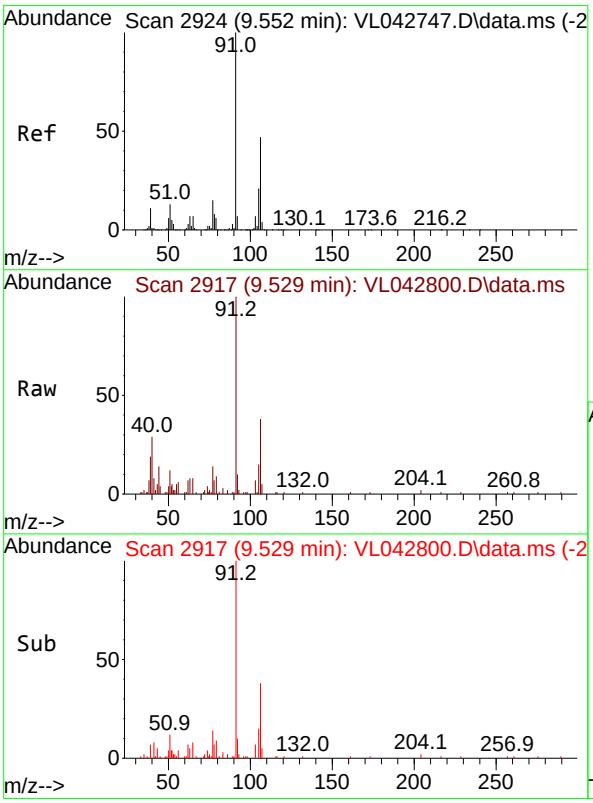
Ion	Ratio	Lower	Upper
117	100		
82	63.6	53.3	79.9
119	32.3	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

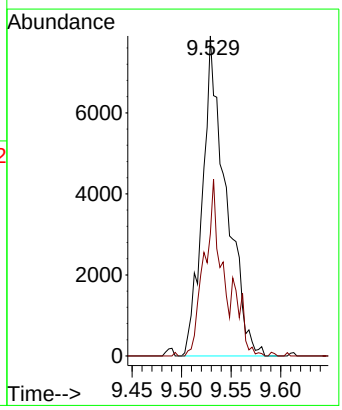
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

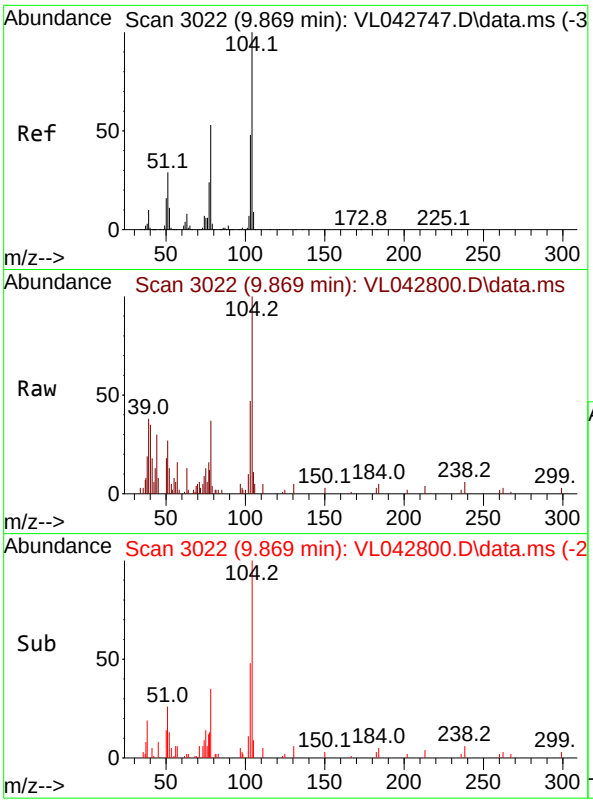


#59
m/p-Xylene
Concen: 0.247 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 91 Resp: 13111

Ion	Ratio	Lower	Upper
91	100		
106	49.1	37.4	56.2

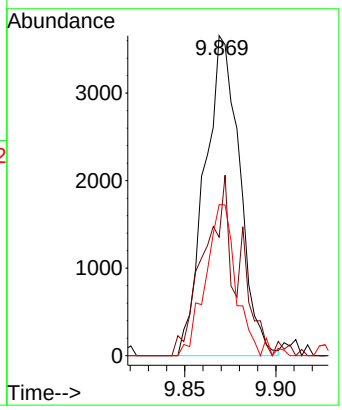




#61
Styrene
Concen: 0.218 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:104 Resp: 486

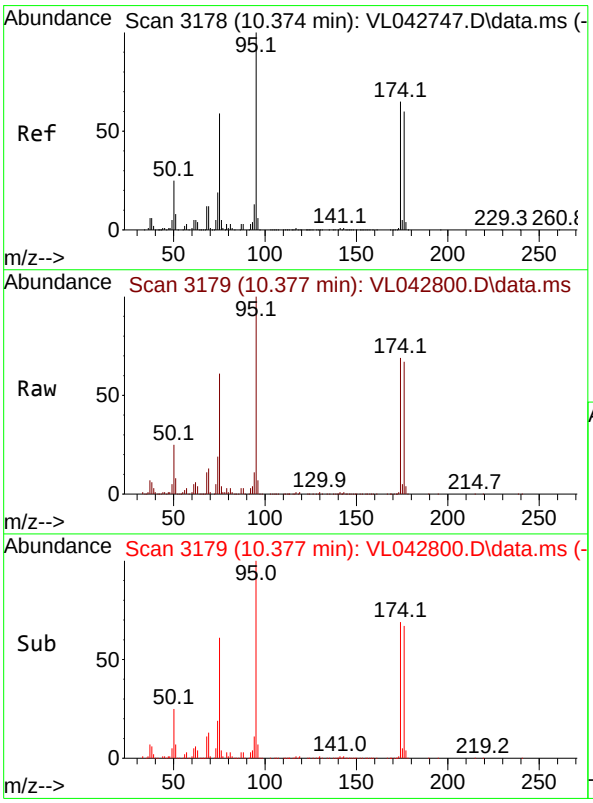
Ion	Ratio	Lower	Upper
104	100		
78	55.8	41.5	62.3
103	41.9	37.5	56.3



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

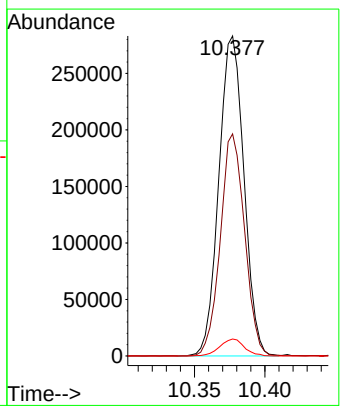
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

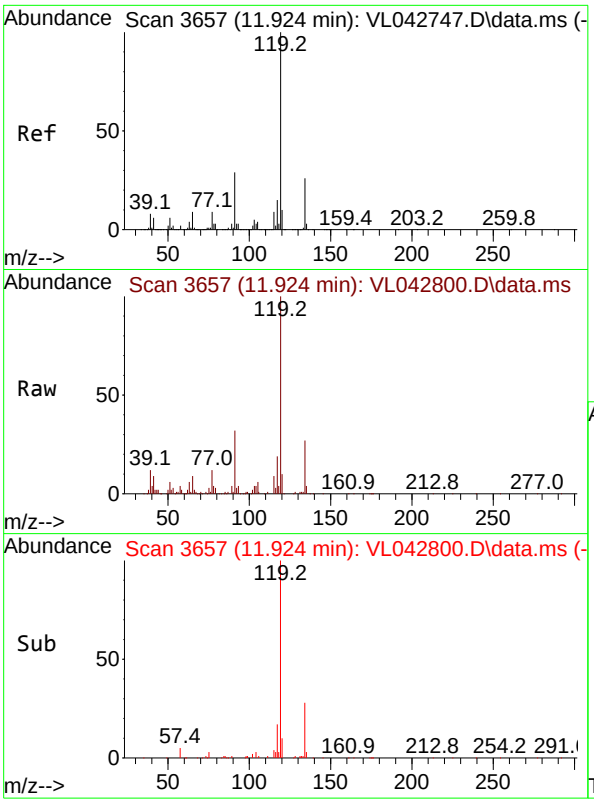


#68
1-Bromo-4-Fluorobenzene
Concen: 10.561 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 95 Resp: 351197

Ion	Ratio	Lower	Upper
95	100		
174	67.4	53.8	80.6
175	5.2	4.0	6.0





#69
p-Isopropyltoluene
Concen: 0.677 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

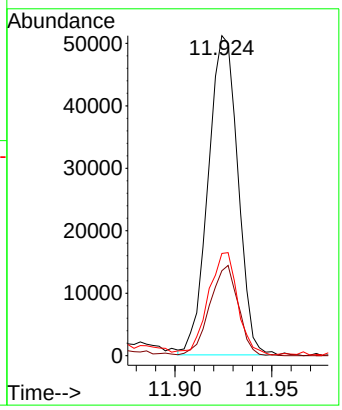
Tgt Ion:119 Resp: 5450

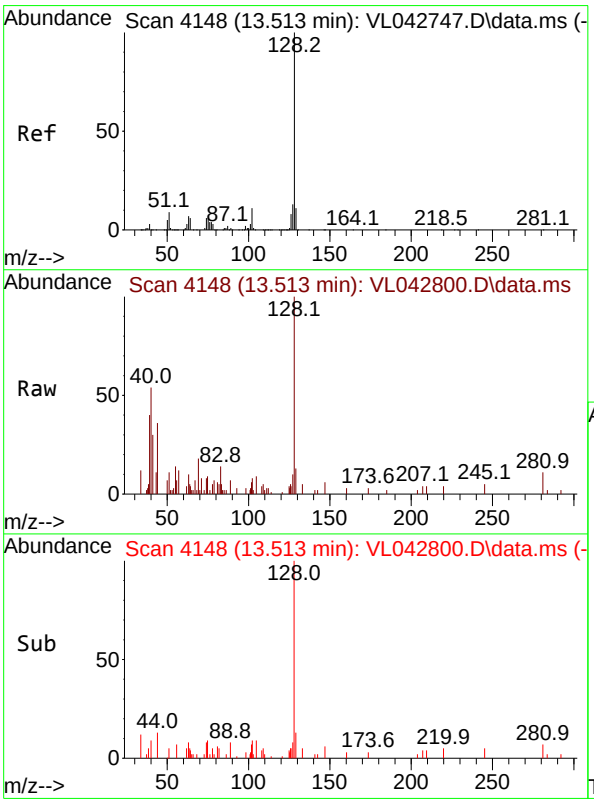
Ion	Ratio	Lower	Upper
119	100		
134	27.4	20.6	31.0
91	32.6	23.2	34.8

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

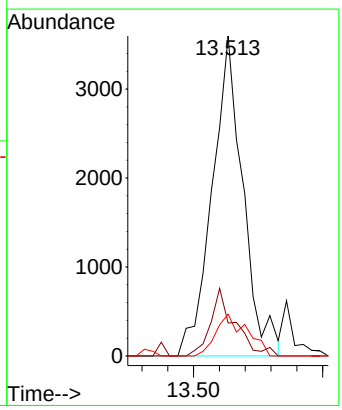


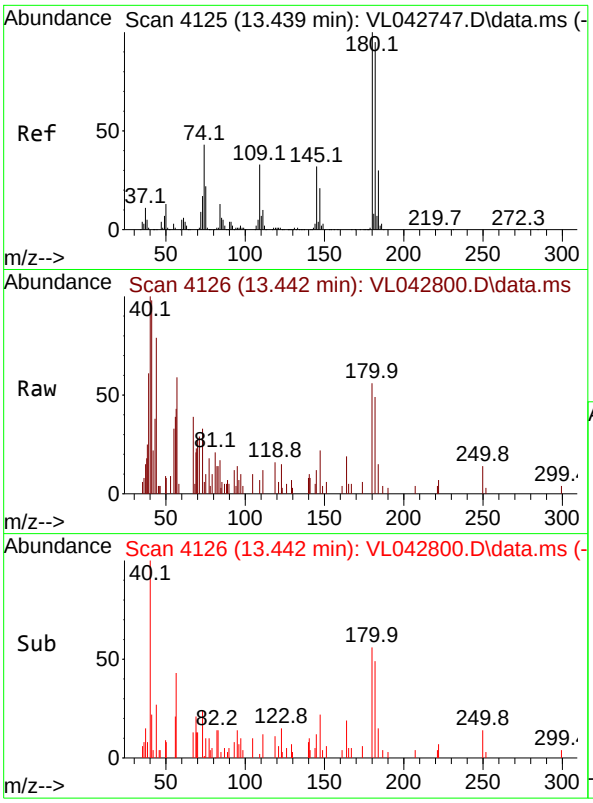


#79
Naphthalene
Concen: 0.481 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:128 Resp: 2980

Ion	Ratio	Lower	Upper
128	100		
127	10.3	10.5	15.7#
129	13.0	8.6	13.0#

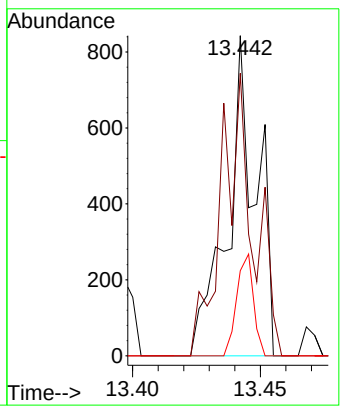




#81
1,2,4-Trichlorobenzene
Concen: 0.453 ppbv m
RT: 13.442 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:180 Resp: 65

Ion	Ratio	Lower	Upper
180	100		
182	97.7	76.2	114.2
184	18.7	24.8	37.2#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/04/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/04/25
Client Sample ID:	WONDER IA-5DUP	SDG No.:	Q2750
Lab Sample ID:	Q2750-04DUP	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042814.D	1		08/04/25 20:15	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.58	2.87		0.54	2.47	ug/m3
74-87-3	Chloromethane	0.63	1.30		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	91.0	216	E	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	2.60	8.10		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	7.50	26.1		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	1.00	2.95		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.54	2.64		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.26	0.83	J	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.62	2.34		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/04/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/04/25
Client Sample ID:	WONDER IA-5DUP	SDG No.:	Q2750
Lab Sample ID:	Q2750-04DUP	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042814.D	1		08/04/25 20:15	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	U	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.25	1.23	J	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.47	2.46		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	5.20	18.3		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.9			70 (65) - 130 (135)	109%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	161000		2.787			
540-36-3	1,4-Difluorobenzene	429000		3.959			
3114-55-4	Chlorobenzene-d5	375000		8.882			

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

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	08/04/25
Project:	Wonder Group Inc. Emergency IH Assess - 25-0580	Date Received:	08/04/25
Client Sample ID:	WONDER IA-5DUP	SDG No.:	Q2750
Lab Sample ID:	Q2750-04DUP	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042814.D	1		08/04/25 20:15	VL080425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042814.D
Acq On : 04 Aug 2025 20:15
Operator : SY/MD
Sample : Q2750-04DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:12:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	161216	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	428986	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	375205	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	323539	10.888	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 108.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	12445	0.584	ppbv		89
3) Chlorodifluoromethane	1.473	51	1470625	52.963	ppbv	#	87
4) Chloromethane	1.531	50	5419	0.628	ppbv		89
9) Propene	1.486	41	130757m	12.957	ppbv		
11) Trichlorofluoromethane	1.878	101	4709	0.214	ppbv		90
13) Ethanol	1.729	45	4021580	5471.839	ppbv		92
15) Acetone	1.835	43	2026354	91.025	ppbv	#	84
19) Isopropyl Alcohol	1.984	45	24131679	2039.875	ppbv	#	38
20) Methylene Chloride	2.062	84	52828	7.530	ppbv		94
25) Ethyl Acetate	2.842	43	204967m	4.160	ppbv		
26) Hexane	2.826	57	111667	5.166	ppbv		84
27) Carbon Disulfide	2.146	76	47924	2.590	ppbv	#	66
29) Chloroform	2.852	83	17868	0.535	ppbv		98
34) 2-Butanone	2.567	43	31136	1.025	ppbv		99
35) Carbon Tetrachloride	3.768	117	2101m	0.066	ppbv		
36) Benzene	3.658	78	10752	0.264	ppbv	#	93
43) Methyl Methacrylate	4.878	69	1703m	0.118	ppbv		
53) Toluene	6.933	91	27249	0.624	ppbv		97
59) m/p-Xylene	9.532	91	8838m	0.187	ppbv		
61) Styrene	9.872	104	2754m	0.138	ppbv		
69) p-Isopropyltoluene	11.924	119	38819	0.540	ppbv		97
74) 1,2,4-Trimethylbenzene	11.539	105	12795m	0.252	ppbv		
79) Naphthalene	13.513	128	2069	0.471	ppbv	#	87

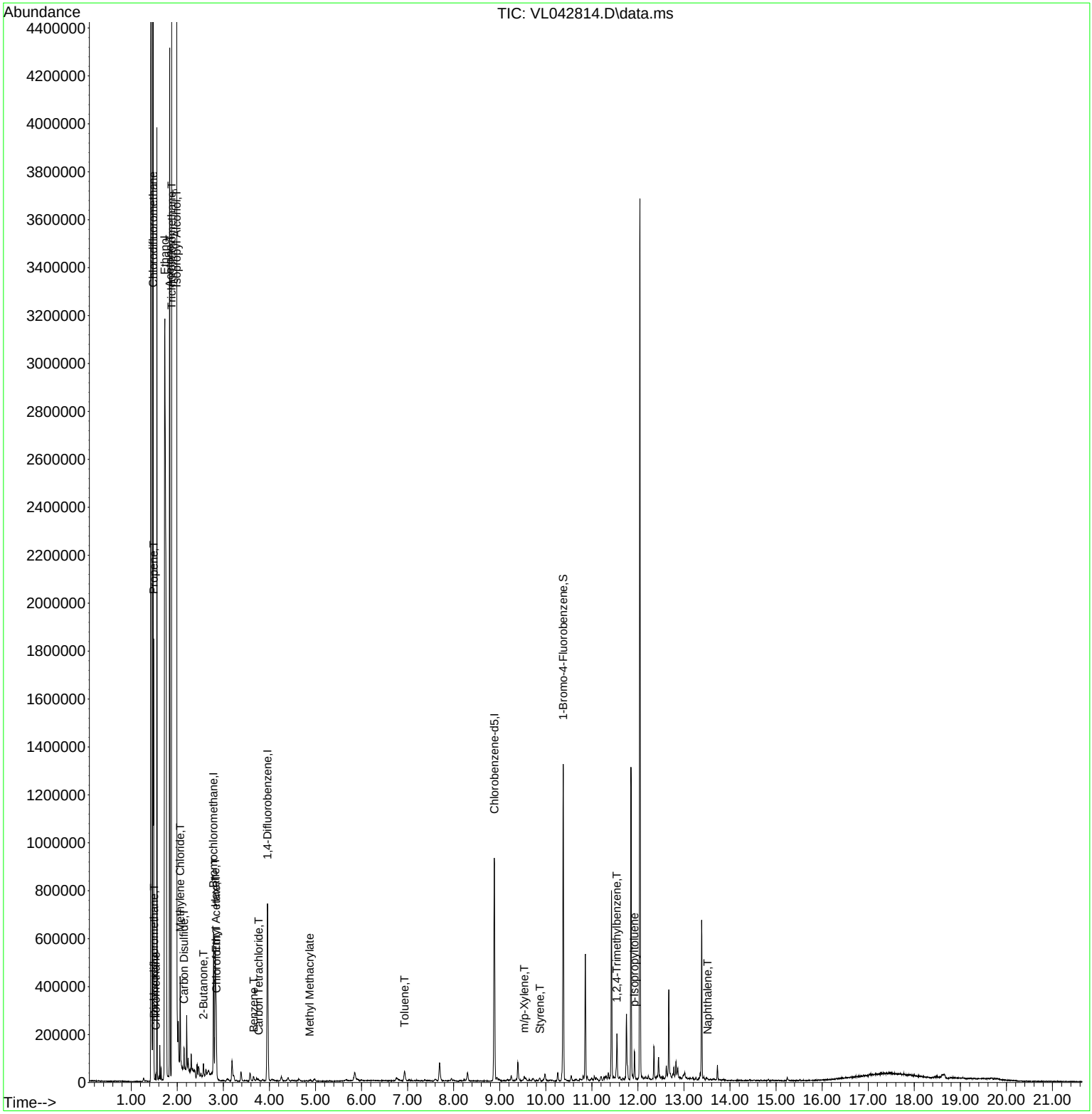
(#) = qualifier out of range (m) = manual integration (+) = signals summed

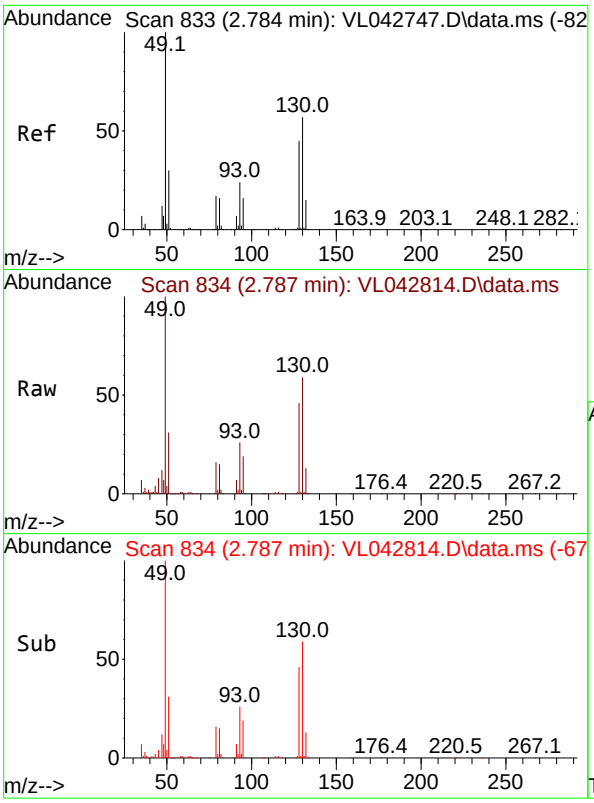
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042814.D
Acq On : 04 Aug 2025 20:15
Operator : SY/MD
Sample : Q2750-04DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 01:12:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

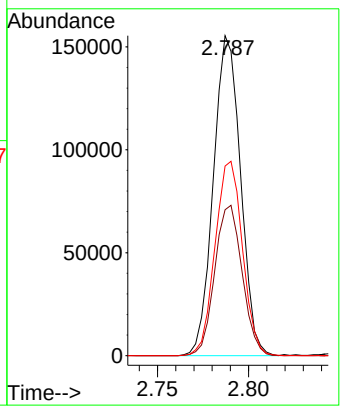
Tgt Ion: 49 Resp: 16121

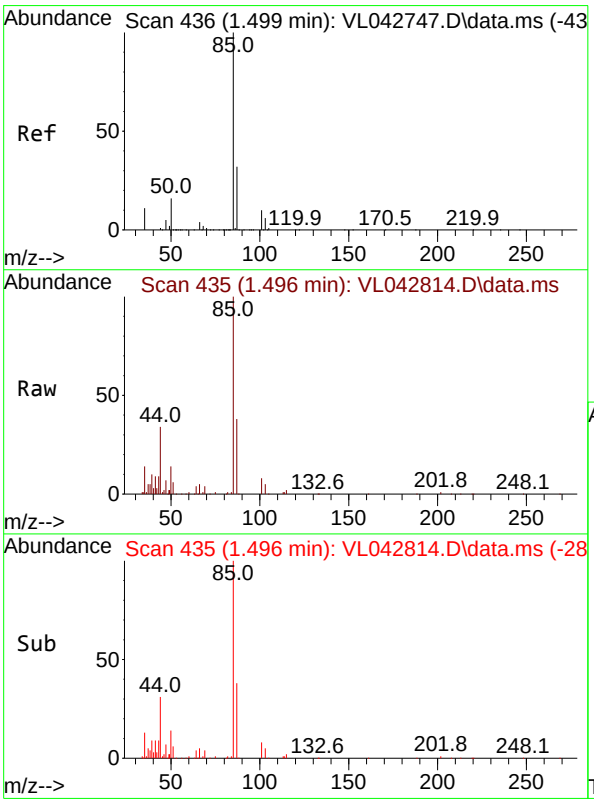
Ion	Ratio	Lower	Upper
49	100		
128	47.3	23.6	71.0
130	61.4	30.3	90.8

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

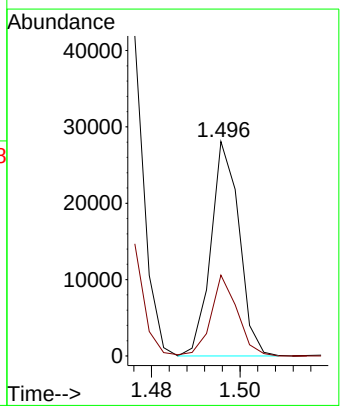


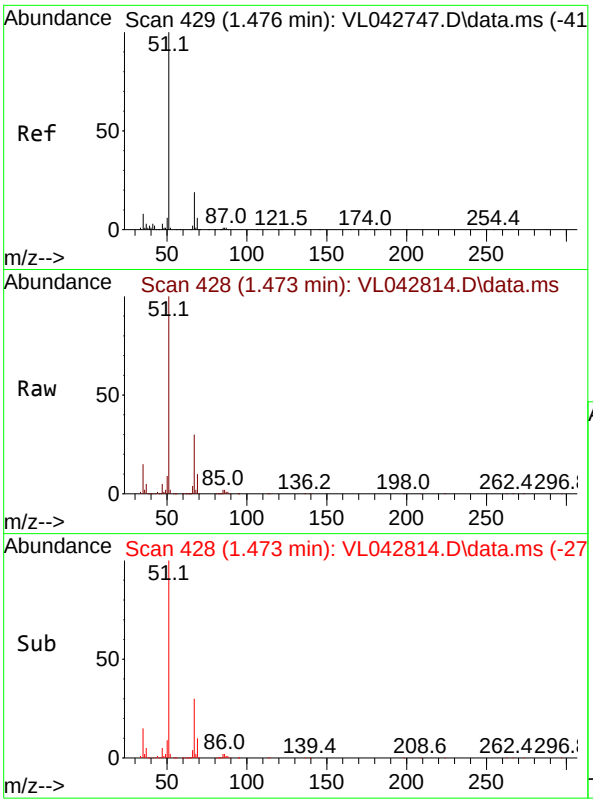


#2
Dichlorodifluoromethane
Concen: 0.584 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 85 Resp: 12445

Ion	Ratio	Lower	Upper
85	100		
87	37.7	25.4	38.2

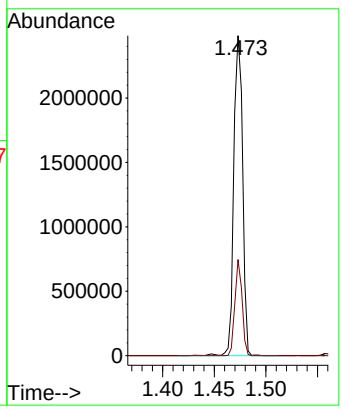




#3
Chlorodifluoromethane
Concen: 52.963 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 51 Resp: 147062

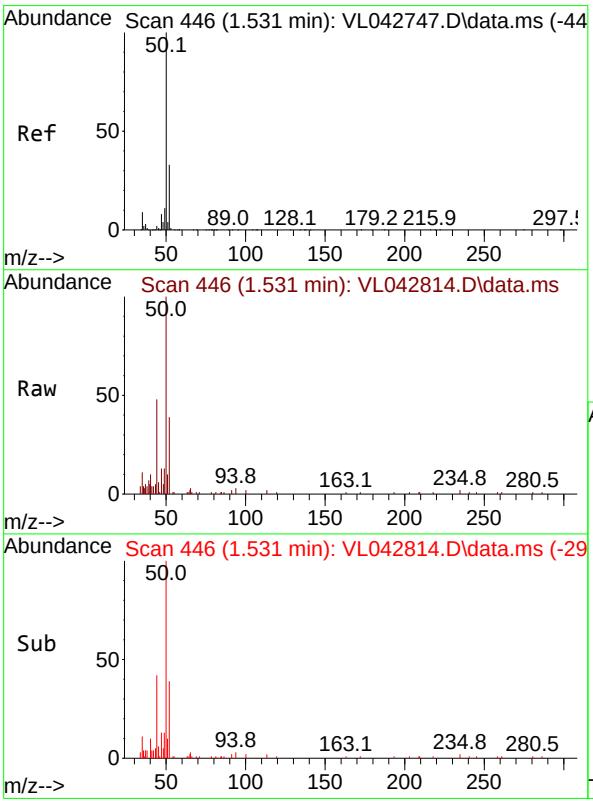
Ion	Ratio	Lower	Upper
51	100		
67	24.5	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

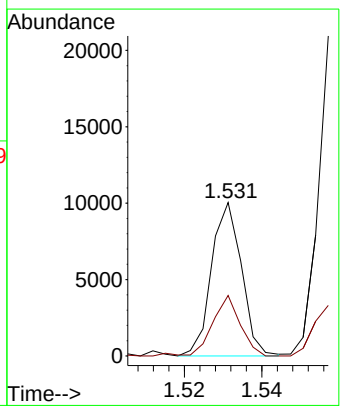
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

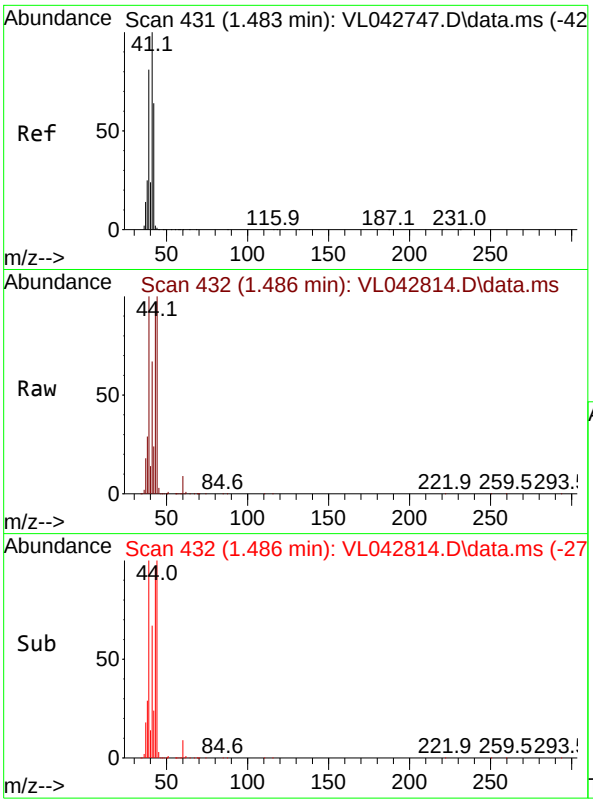


#4
Chloromethane
Concen: 0.628 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 50 Resp: 5419

Ion	Ratio	Lower	Upper
50	100		
52	39.4	26.6	40.0

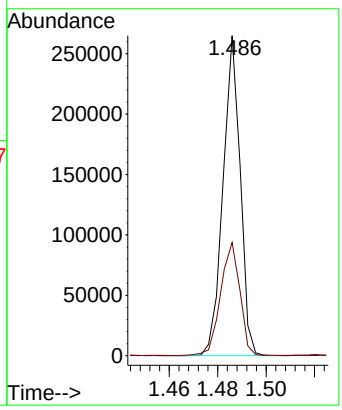




#9
Propene
Concen: 12.957 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 41 Resp: 13075

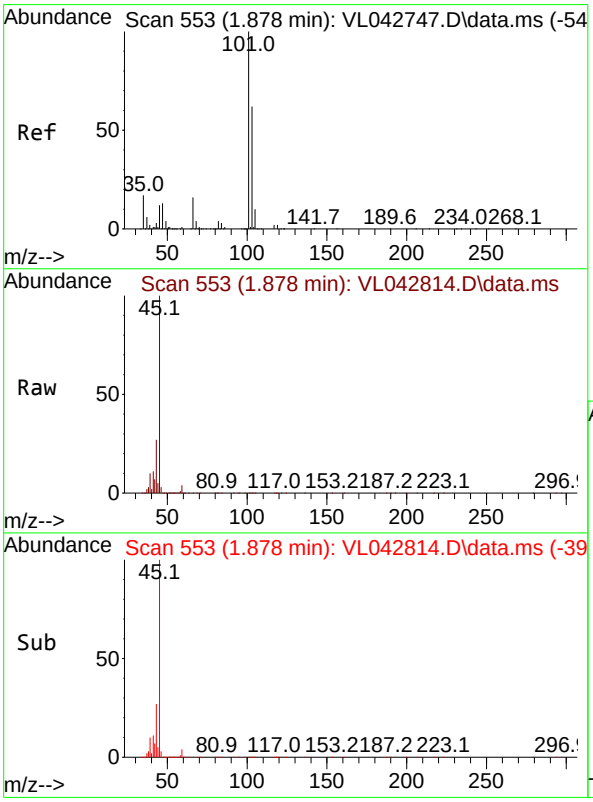
Ion	Ratio	Lower	Upper
41	100		
42	230.3	53.2	79.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

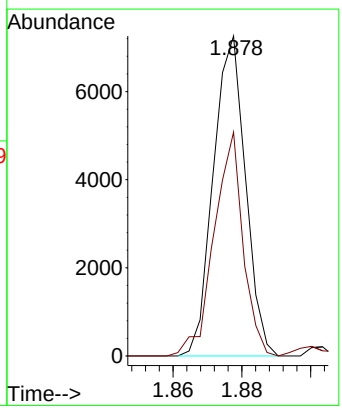
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

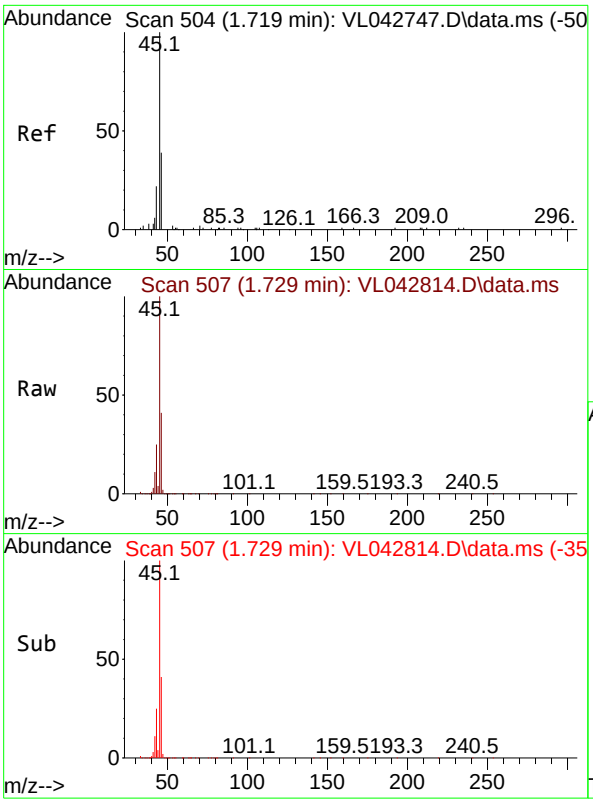


#11
Trichlorofluoromethane
Concen: 0.214 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:101 Resp: 4709

Ion	Ratio	Lower	Upper
101	100		
103	70.0	49.6	74.4

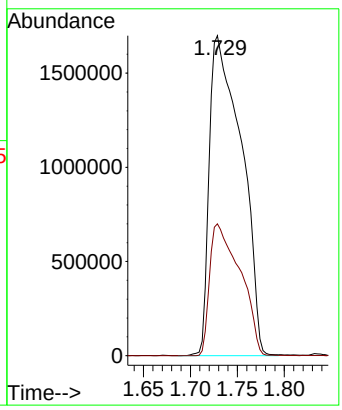




#13
Ethanol
Concen: 5471.839 ppbv
RT: 1.729 min Scan# 5
Delta R.T. 0.010 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 45 Resp: 402158

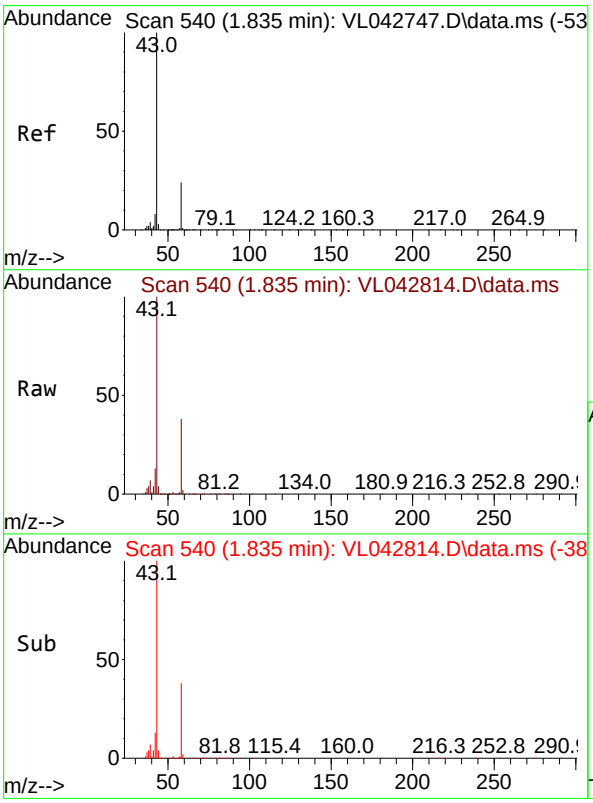
Ion	Ratio	Lower	Upper
45	100		
46	39.4	17.8	71.4



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

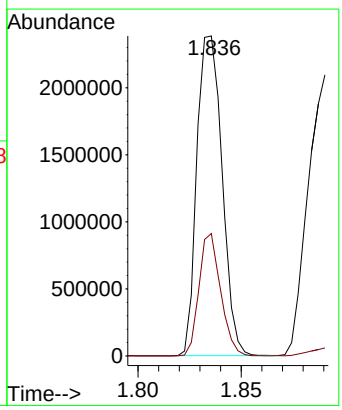
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

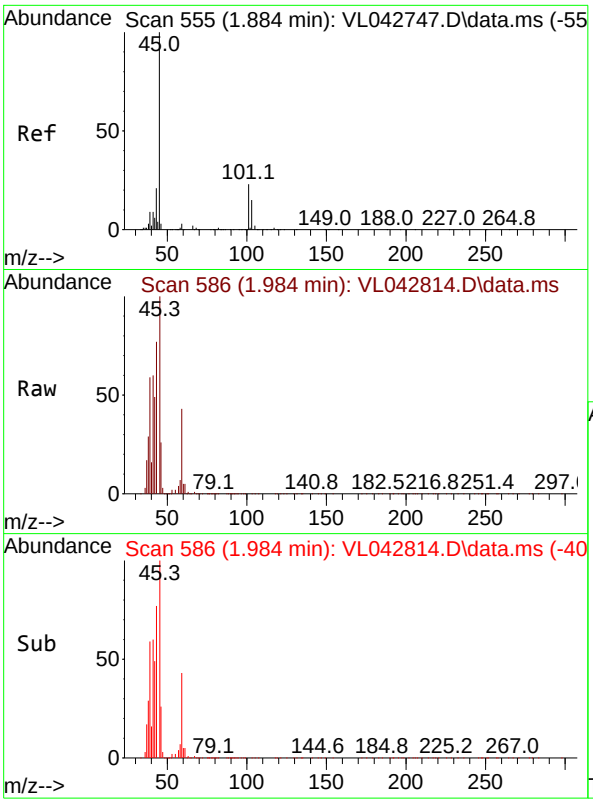


#15
Acetone
Concen: 91.025 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 43 Resp: 2026354

Ion	Ratio	Lower	Upper
43	100		
58	32.9	19.8	29.8#

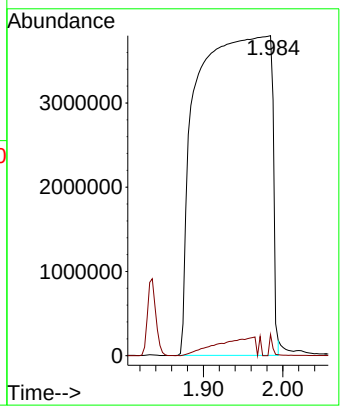




#19
Isopropyl Alcohol
Concen: 2039.875 ppbv
RT: 1.984 min Scan# 5
Delta R.T. 0.100 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 45 Resp:2413167

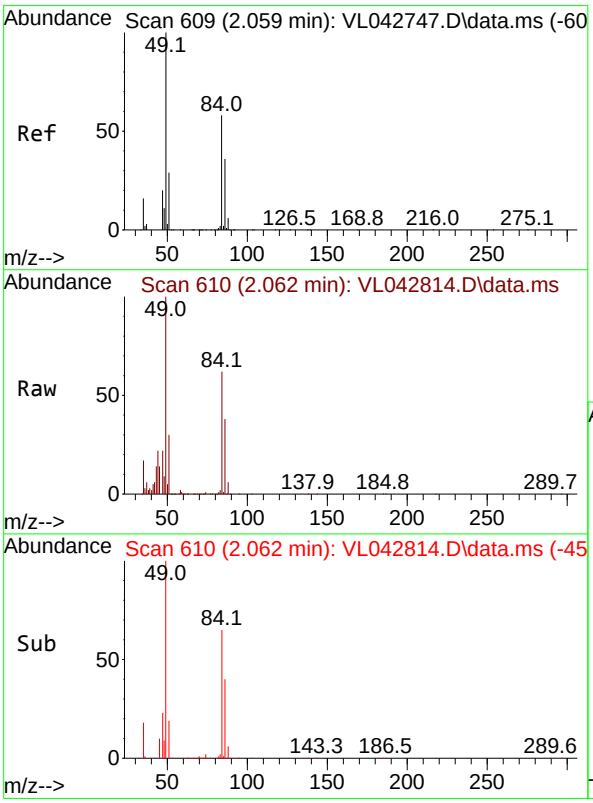
Ion	Ratio	Lower	Upper
45	100		
58	0.4	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

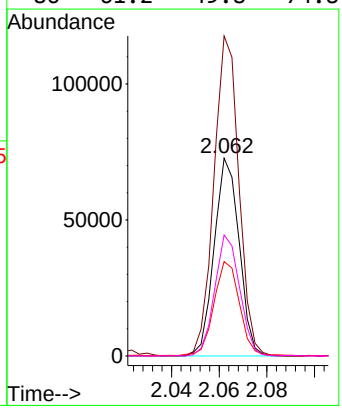
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

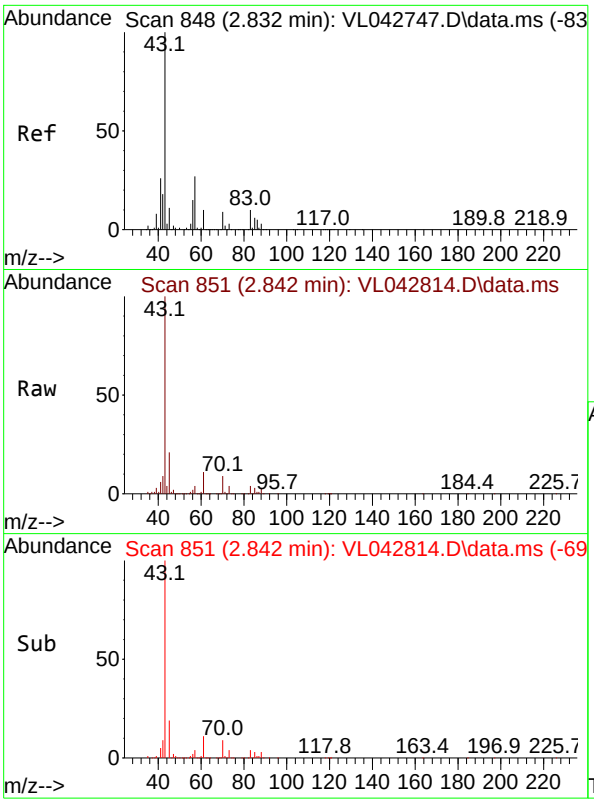


#20
Methylene Chloride
Concen: 7.530 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 84 Resp: 52828

Ion	Ratio	Lower	Upper
84	100		
49	161.7	138.6	208.0
51	47.6	40.6	61.0
86	61.2	49.8	74.8

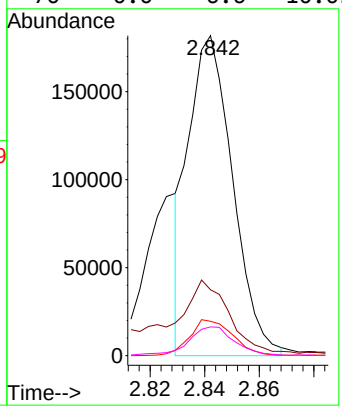




#25
Ethyl Acetate
Concen: 4.160 ppbv m
RT: 2.842 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 43 Resp: 20496

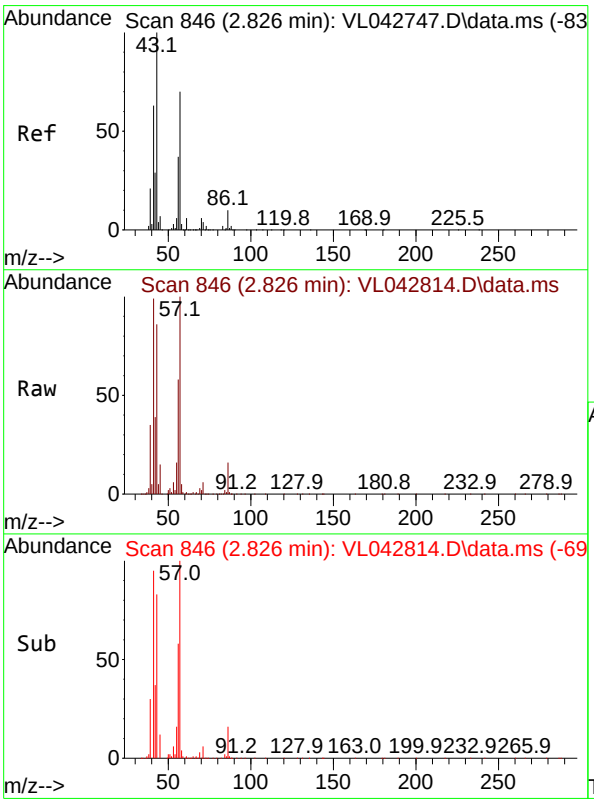
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	6.7	10.1#
70	0.0	6.6	10.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

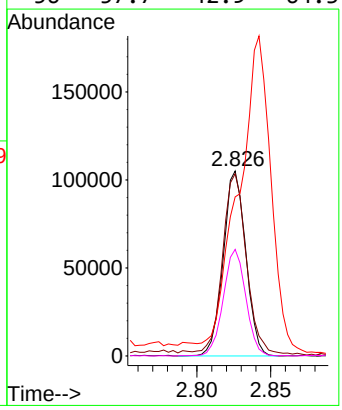
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

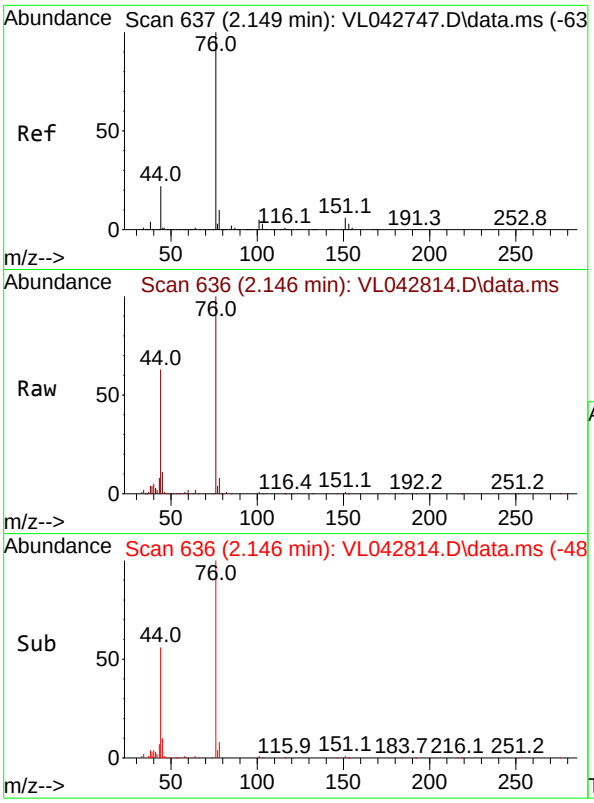


#26
Hexane
Concen: 5.166 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 57 Resp: 111667

Ion	Ratio	Lower	Upper
57	100		
41	110.7	75.4	113.2
43	261.3	185.0	277.6
56	57.7	42.9	64.3





#27
Carbon Disulfide
Concen: 2.590 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

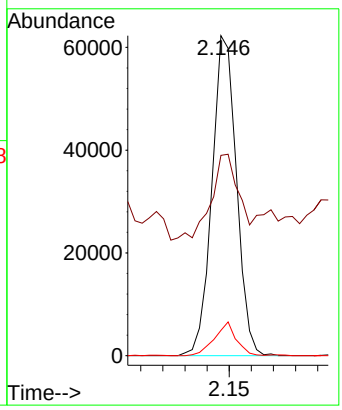
Tgt Ion: 76 Resp: 4792

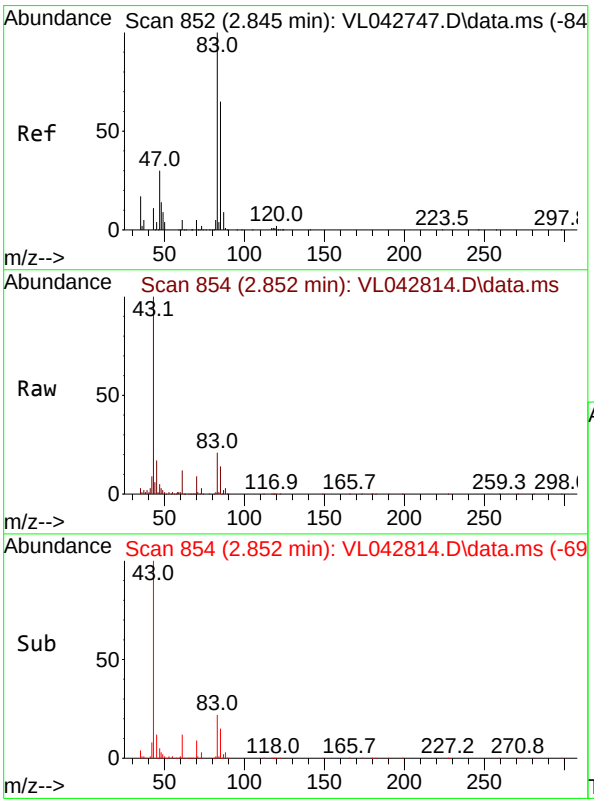
Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.9	9.9	14.9#

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

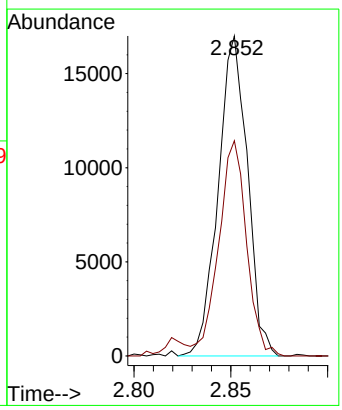


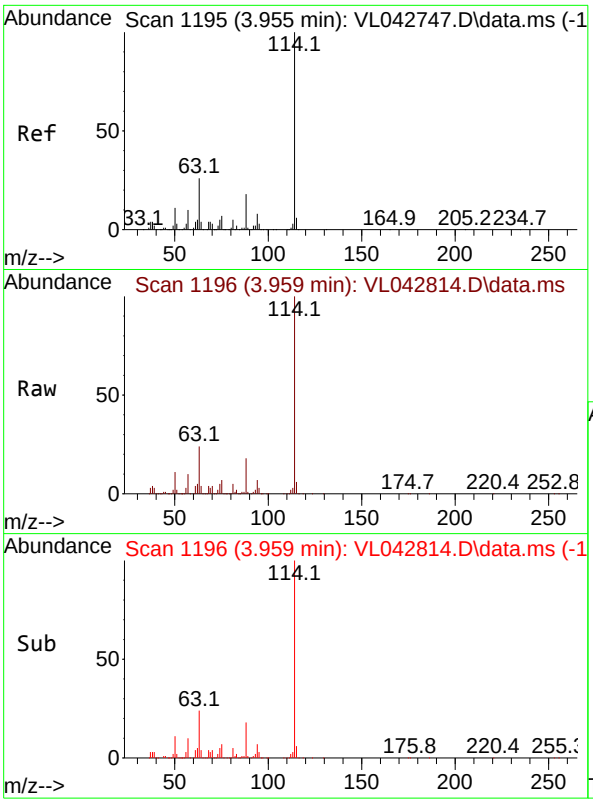


#29
Chloroform
Concen: 0.535 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 83 Resp: 17868

Ion	Ratio	Lower	Upper
83	100		
85	66.6	52.2	78.2

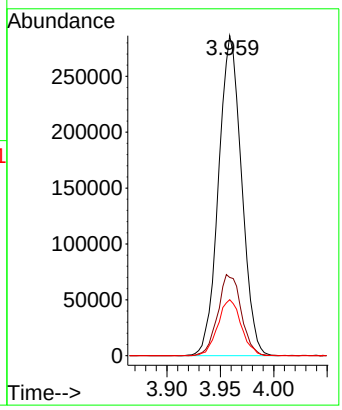




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:114 Resp: 42898

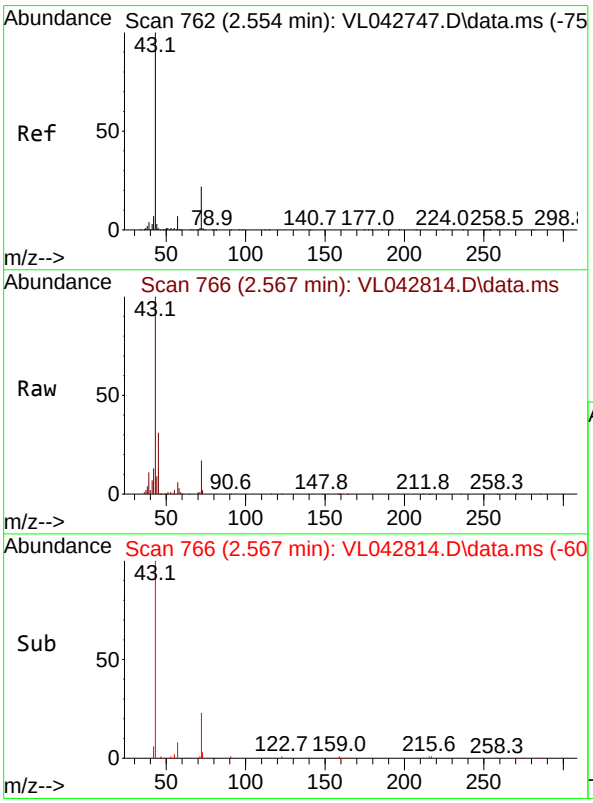
Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.5	30.7
88	17.8	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

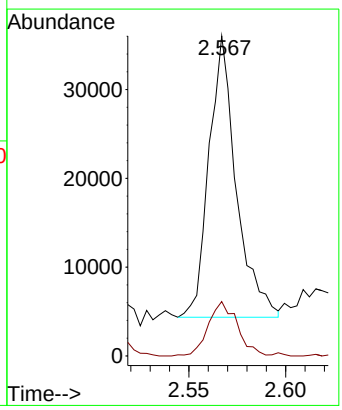
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

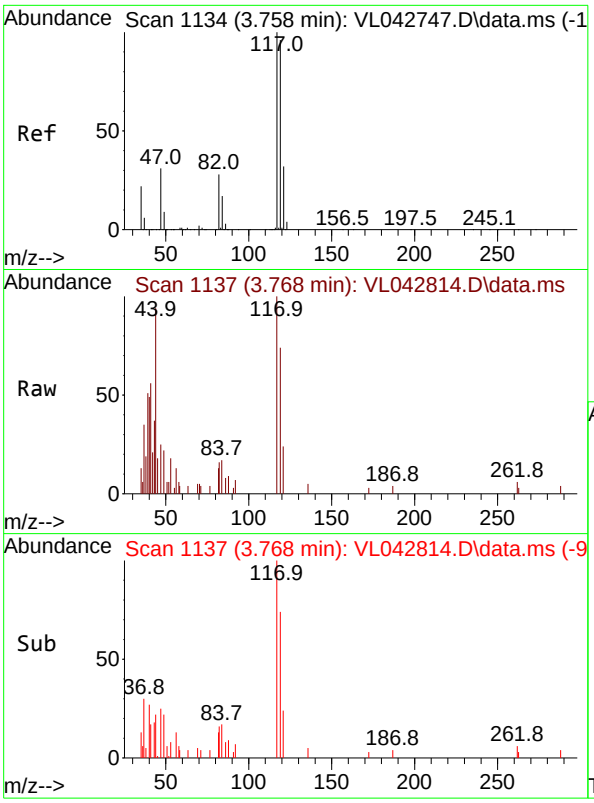


#34
2-Butanone
Concen: 1.025 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 43 Resp: 31136

Ion	Ratio	Lower	Upper
43	100		
72	21.1	17.4	26.0

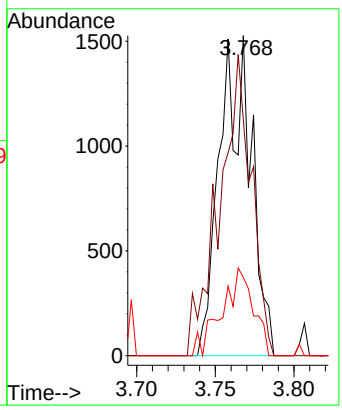




#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 3.768 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:117 Resp: 210

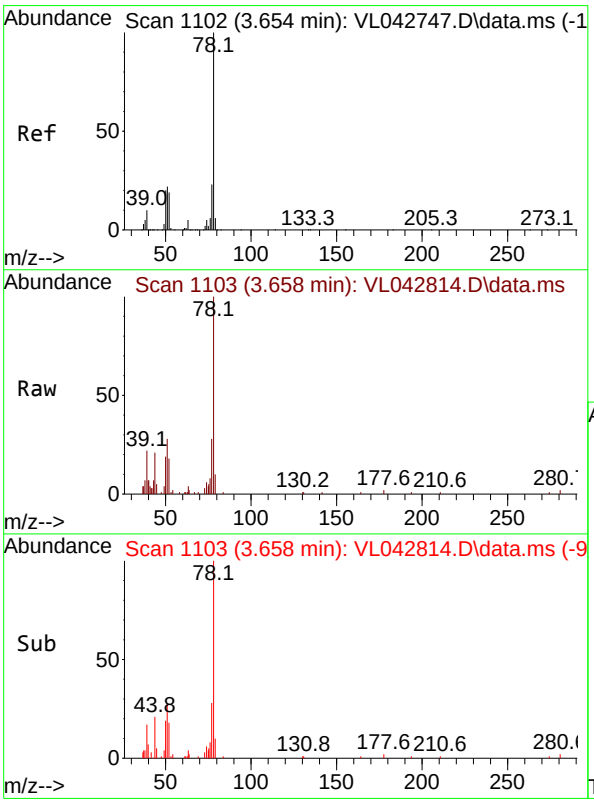
Ion	Ratio	Lower	Upper
117	100		
119	73.7	77.1	115.7#
121	24.4	25.5	38.3#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

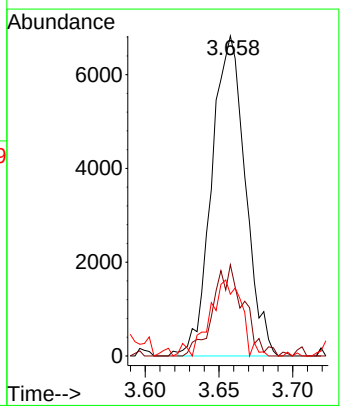
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

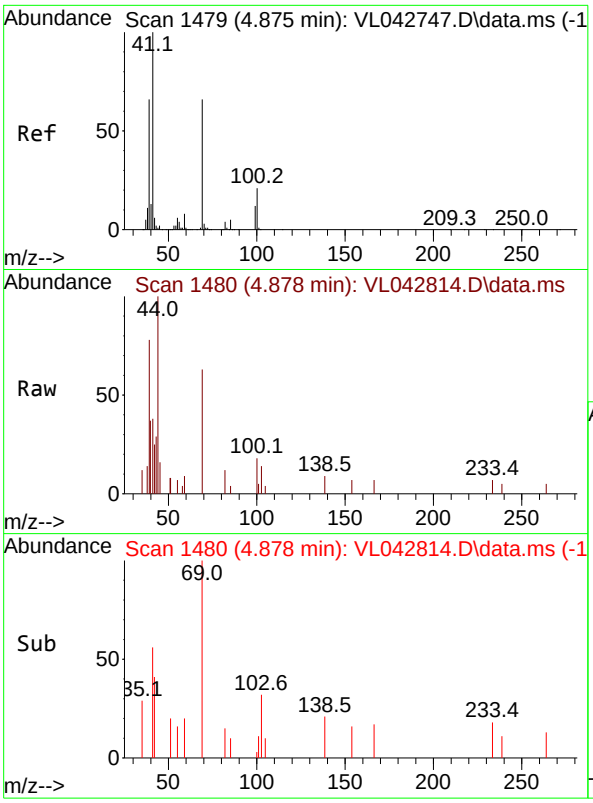


#36
Benzene
Concen: 0.264 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 78 Resp: 10752

Ion	Ratio	Lower	Upper
78	100		
77	28.5	18.5	27.7#
50	19.3	16.2	24.2

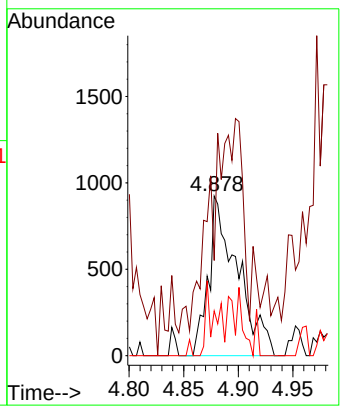




#43
Methyl Methacrylate
Concen: 0.118 ppbv m
RT: 4.878 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 69 Resp: 170

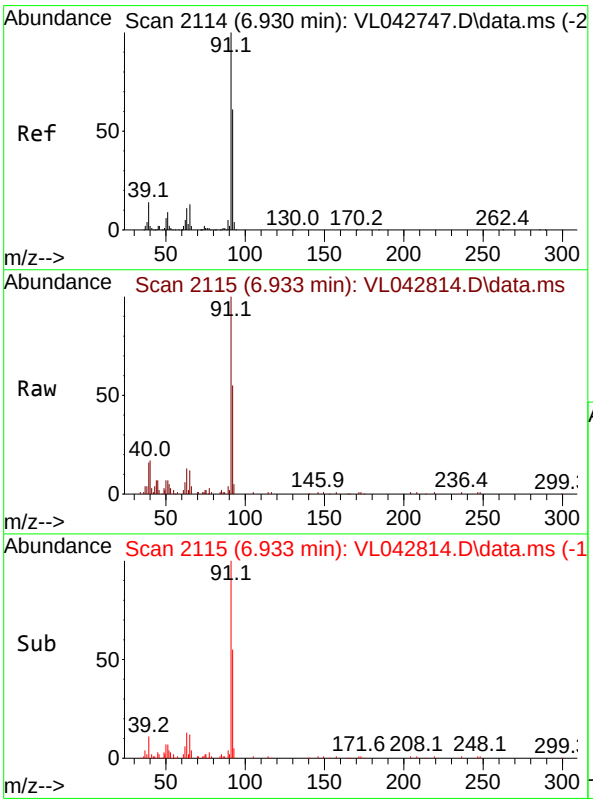
Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	37.5	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

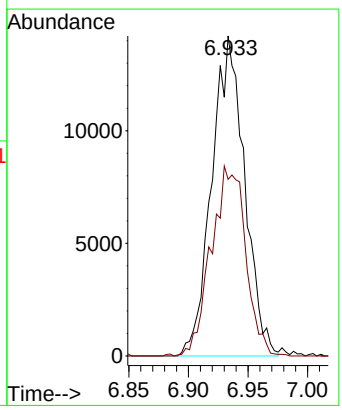
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

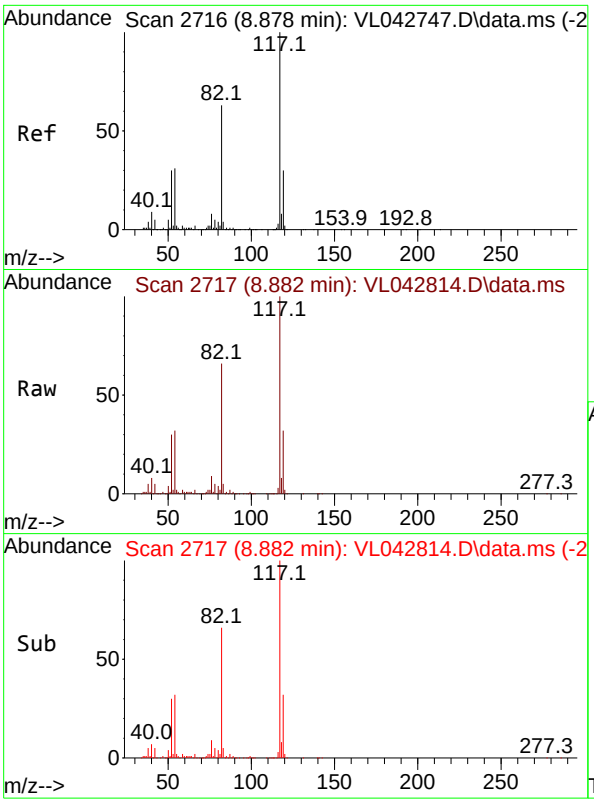


#53
Toluene
Concen: 0.624 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 91 Resp: 27249

Ion	Ratio	Lower	Upper
91	100		
92	62.0	48.0	72.0

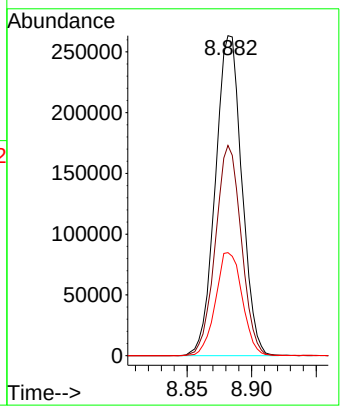




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:117 Resp: 37520

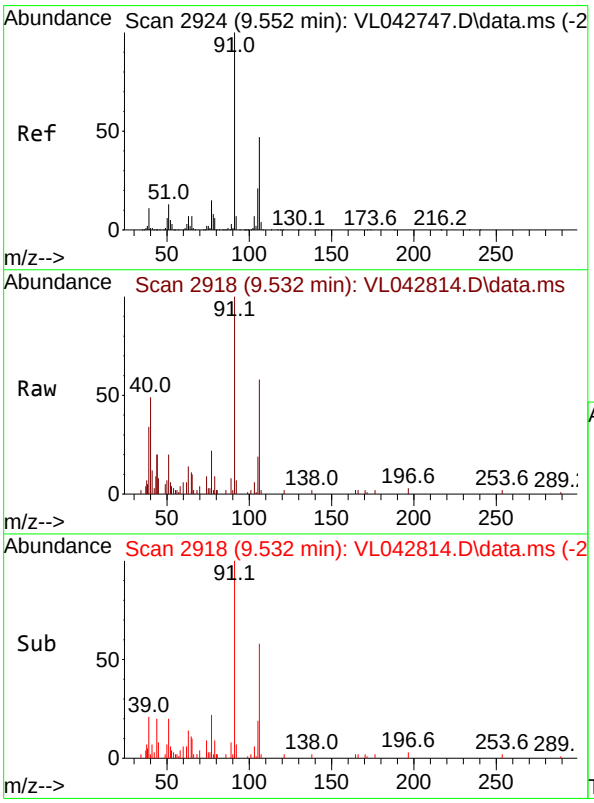
Ion	Ratio	Lower	Upper
117	100		
82	64.4	53.3	79.9
119	32.6	25.8	38.6



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

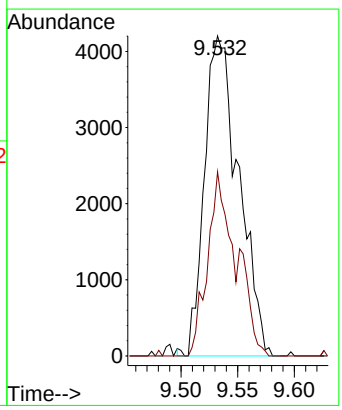
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

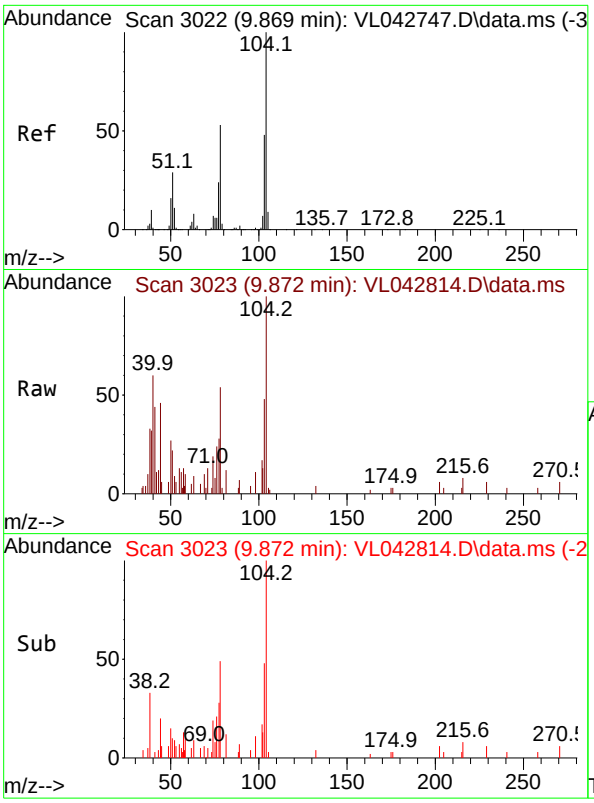


#59
m/p-Xylene
Concen: 0.187 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 91 Resp: 8838

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#





#61
Styrene
Concen: 0.138 ppbv m
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

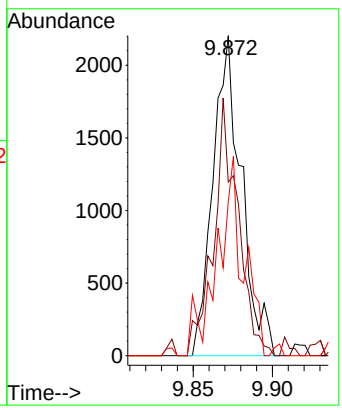
Tgt Ion:104 Resp: 275

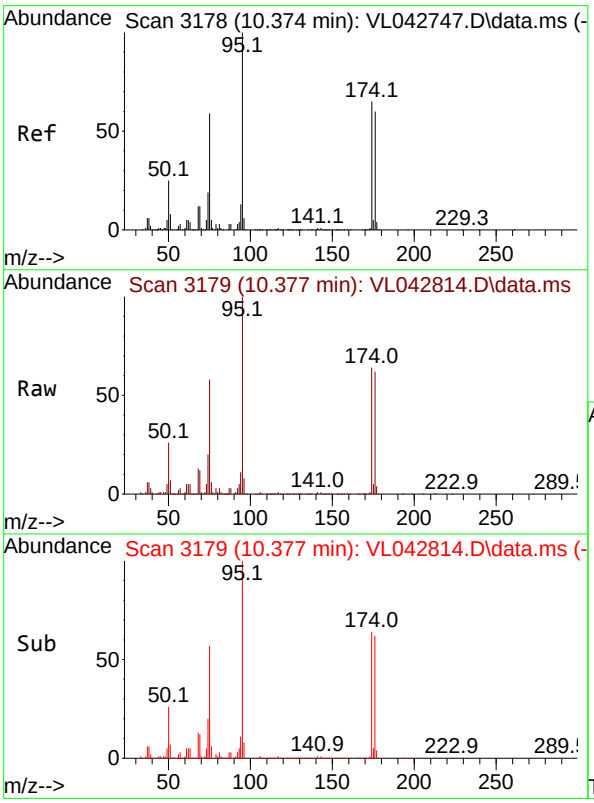
Ion	Ratio	Lower	Upper
104	100		
78	74.0	41.5	62.3#
103	59.0	37.5	56.3#

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

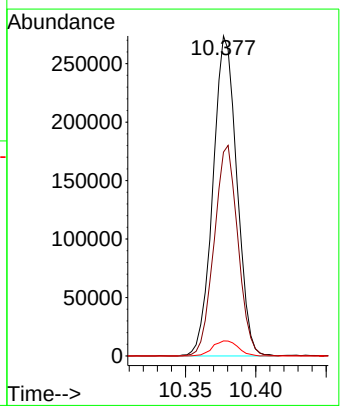


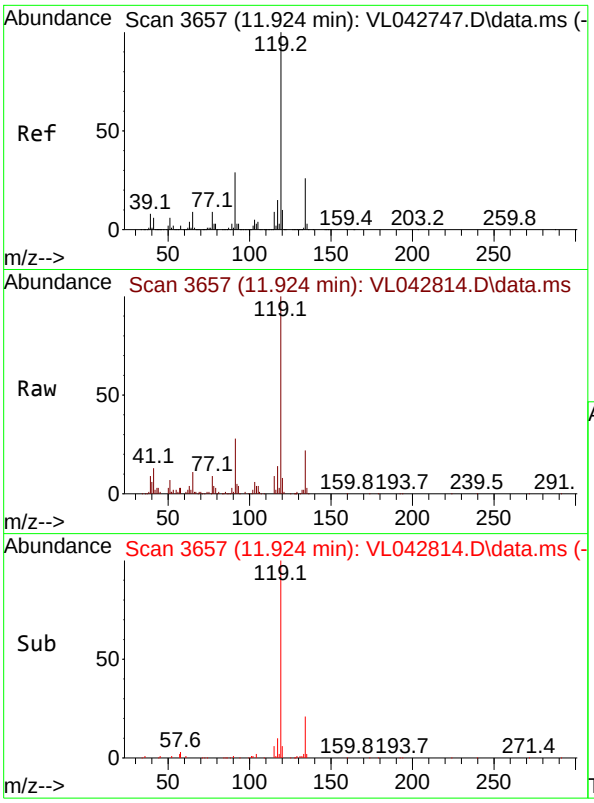


#68
1-Bromo-4-Fluorobenzene
Concen: 10.888 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 95 Resp: 323539

Ion	Ratio	Lower	Upper
95	100		
174	65.5	53.8	80.6
175	5.1	4.0	6.0

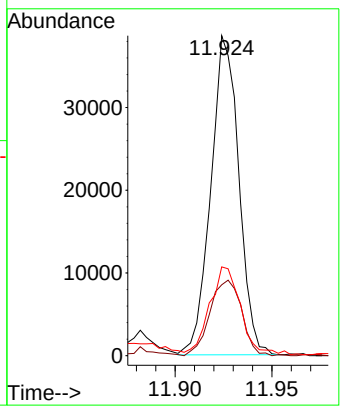




#69
p-Isopropyltoluene
Concen: 0.540 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:119 Resp: 3881

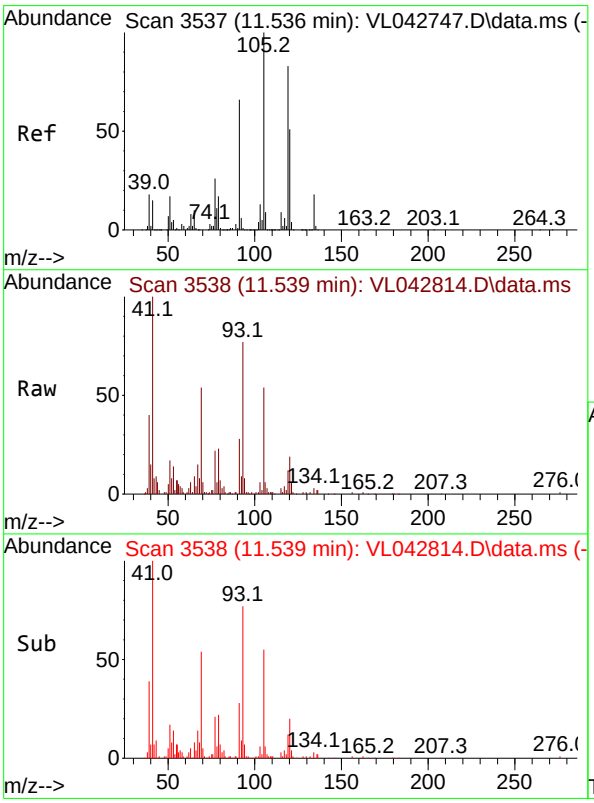
Ion	Ratio	Lower	Upper
119	100		
134	27.1	20.6	31.0
91	30.8	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

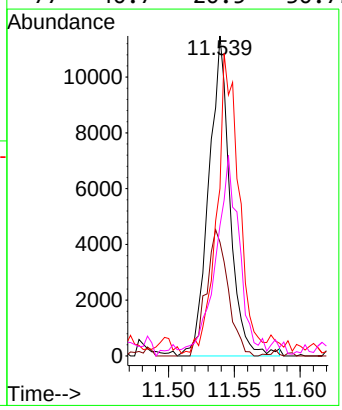
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

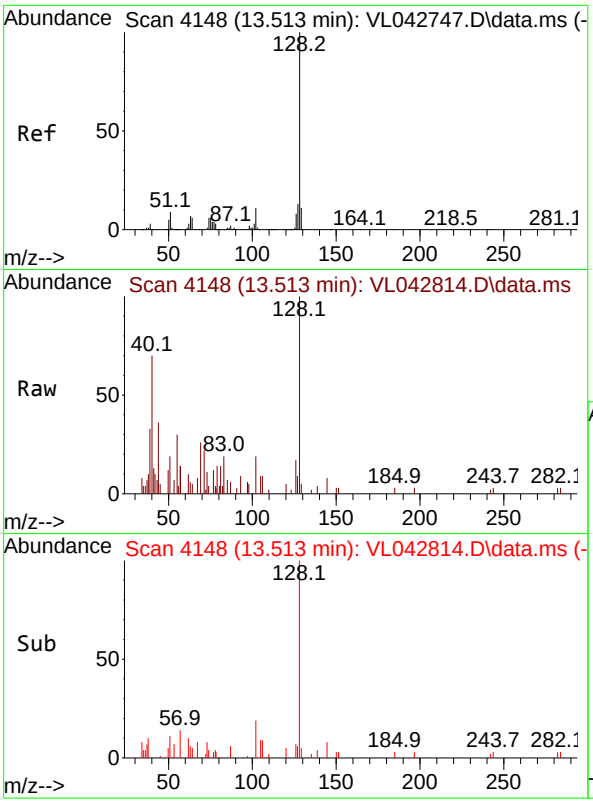


#74
1,2,4-Trimethylbenzene
Concen: 0.252 ppbv m
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:105 Resp: 12795

Ion	Ratio	Lower	Upper
105	100		
120	35.5	40.8	61.2#
91	52.4	53.0	79.4#
77	40.7	20.5	30.7#

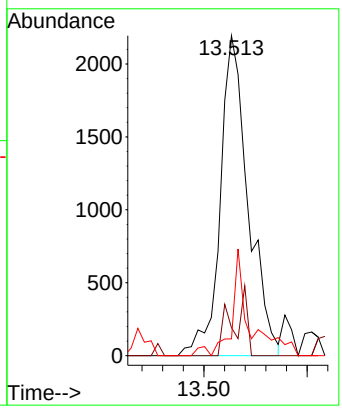




#79
Naphthalene
Concen: 0.471 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:128 Resp: 206

Ion	Ratio	Lower	Upper
128	100		
127	8.8	10.5	15.7#
129	5.2	8.6	13.0#



Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

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

Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042747.D	m/p-Xylene	SAM	7/24/2025 9:02:56 AM	MMDadoda	7/24/2025 2:20:57 PM	Peak Integrated by Software
VSTDICC002	VL042748.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICC002	VL042748.D	1,4-Dioxane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICC002	VL042748.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICC002	VL042748.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICC002	VL042748.D	Cyclohexane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICC002	VL042748.D	Heptane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICC002	VL042748.D	m/p-Xylene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICC002	VL042748.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICC002	VL042748.D	trans-1,2-Dichloroethene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	1,4-Dioxane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	Bromodichloromethane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042749.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	Ethanol	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	Heptane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	m/p-Xylene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	Methyl Methacrylate	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	1,2-Dibromoethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	1,4-Dioxane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	2-Hexanone	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Benzyl Chloride	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Bromodichloromethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042750.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Dibromochloromethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Ethanol	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Heptane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	m/p-Xylene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Methyl Methacrylate	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Tetrahydrofuran	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Trichloroethene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	1,1,1-Trichloroethane	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	1,1,2,2-Tetrachloroethane	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	Carbon Tetrachloride	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	Tetrachloroethene	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.03	VL042752.D	Trichloroethene	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC015	VL042753.D	m/p-Xylene	SAM	7/24/2025 9:03:41 AM	MMDadoda	7/24/2025 2:21:10 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	1,1,2,2-Tetrachloroethane	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	1,2-Dibromoethane	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	Carbon Tetrachloride	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	Tetrachloroethene	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	Trichloroethene	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICV010	VL042755.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software
VSTDICV010	VL042755.D	m/p-Xylene	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL080425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042796.D	m/p-Xylene	SAM	8/5/2025 7:22:52 AM	MMDadoda	8/5/2025 12:51:57 PM	Peak Integrated by Software
VL0804ABS01	VL042798.D	1,1,2-Trichloroethane	SAM	8/5/2025 7:22:57 AM	MMDadoda	8/5/2025 12:52:02 PM	Peak Integrated by Software
VL0804ABS01	VL042798.D	m/p-Xylene	SAM	8/5/2025 7:22:57 AM	MMDadoda	8/5/2025 12:52:02 PM	Peak Integrated by Software
Q2750-01	VL042799.D	2,2,4-Trimethylpentane	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software
Q2750-01	VL042799.D	Carbon Tetrachloride	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software
Q2750-01	VL042799.D	Heptane	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software
Q2750-01	VL042799.D	Isopropyl Alcohol	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software
Q2750-01	VL042799.D	m/p-Xylene	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software
Q2750-01	VL042799.D	Propene	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software
Q2750-01	VL042799.D	Styrene	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software
Q2750-01	VL042799.D	Tetrachloroethene	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software
Q2750-01	VL042799.D	Tetrahydrofuran	SAM	8/5/2025 7:23:02 AM	MMDadoda	8/5/2025 12:52:05 PM	Peak Integrated by Software
Q2750-01DUP	VL042800.D	1,2,4-Trichlorobenzene	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL080425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2750-01DUP	VL042800.D	2,2,4-Trimethylpentane	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software
Q2750-01DUP	VL042800.D	Carbon Tetrachloride	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software
Q2750-01DUP	VL042800.D	Ethyl Acetate	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software
Q2750-01DUP	VL042800.D	Heptane	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software
Q2750-01DUP	VL042800.D	Isopropyl Alcohol	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software
Q2750-01DUP	VL042800.D	m/p-Xylene	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software
Q2750-01DUP	VL042800.D	Propene	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software
Q2750-01DUP	VL042800.D	Tetrachloroethene	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software
Q2750-01DUP	VL042800.D	Tetrahydrofuran	sam	8/6/2025 2:03:17 AM	MMdadoda	8/6/2025 2:04:31 AM	Peak Integrated by Software
Q2750-02	VL042801.D	2,2,4-Trimethylpentane	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software
Q2750-02	VL042801.D	Carbon Tetrachloride	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software
Q2750-02	VL042801.D	Dichlorodifluoromethane	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software
Q2750-02	VL042801.D	m/p-Xylene	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL080425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2750-02	VL042801.D	Methyl Methacrylate	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software
Q2750-02	VL042801.D	Propene	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software
Q2750-02	VL042801.D	Toluene	SAM	8/5/2025 7:24:16 AM	MMDadoda	8/5/2025 12:52:12 PM	Peak Integrated by Software
Q2750-03	VL042802.D	2,2,4-Trimethylpentane	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software
Q2750-03	VL042802.D	Carbon Tetrachloride	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software
Q2750-03	VL042802.D	Ethyl Acetate	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software
Q2750-03	VL042802.D	Isopropyl Alcohol	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software
Q2750-03	VL042802.D	m/p-Xylene	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software
Q2750-03	VL042802.D	Methyl Methacrylate	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software
Q2750-03	VL042802.D	Propene	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software
Q2750-03	VL042802.D	Styrene	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software
Q2750-03	VL042802.D	Tetrahydrofuran	sam	8/6/2025 2:03:22 AM	MMdadoda	8/6/2025 2:04:36 AM	Peak Integrated by Software
Q2750-04	VL042803.D	Carbon Tetrachloride	SAM	8/5/2025 7:25:37 AM	MMDadoda	8/5/2025 12:52:19 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL080425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2750-04	VL042803.D	Dichlorodifluoromethane	SAM	8/5/2025 7:25:37 AM	MMDadoda	8/5/2025 12:52:19 PM	Peak Integrated by Software
Q2750-04	VL042803.D	Isopropyl Alcohol	SAM	8/5/2025 7:25:37 AM	MMDadoda	8/5/2025 12:52:19 PM	Peak Integrated by Software
Q2750-04	VL042803.D	m/p-Xylene	SAM	8/5/2025 7:25:37 AM	MMDadoda	8/5/2025 12:52:19 PM	Peak Integrated by Software
Q2750-04	VL042803.D	Methyl Methacrylate	SAM	8/5/2025 7:25:37 AM	MMDadoda	8/5/2025 12:52:19 PM	Peak Integrated by Software
Q2750-04	VL042803.D	Propene	SAM	8/5/2025 7:25:37 AM	MMDadoda	8/5/2025 12:52:19 PM	Peak Integrated by Software
Q2750-04	VL042803.D	Styrene	SAM	8/5/2025 7:25:37 AM	MMDadoda	8/5/2025 12:52:19 PM	Peak Integrated by Software
Q2750-05	VL042804.D	Carbon Tetrachloride	SAM	8/5/2025 7:23:07 AM	MMDadoda	8/5/2025 12:52:22 PM	Peak Integrated by Software
Q2750-05	VL042804.D	m/p-Xylene	SAM	8/5/2025 7:23:07 AM	MMDadoda	8/5/2025 12:52:22 PM	Peak Integrated by Software
Q2750-05	VL042804.D	Methyl Methacrylate	SAM	8/5/2025 7:23:07 AM	MMDadoda	8/5/2025 12:52:22 PM	Peak Integrated by Software
Q2750-05	VL042804.D	Propene	SAM	8/5/2025 7:23:07 AM	MMDadoda	8/5/2025 12:52:22 PM	Peak Integrated by Software
Q2750-05	VL042804.D	Toluene	SAM	8/5/2025 7:23:07 AM	MMDadoda	8/5/2025 12:52:22 PM	Peak Integrated by Software
Q2750-06	VL042805.D	2,2,4-Trimethylpentane	SAM	8/5/2025 7:25:03 AM	MMDadoda	8/5/2025 12:52:25 PM	Peak Integrated by Software
Q2750-06	VL042805.D	Carbon Tetrachloride	SAM	8/5/2025 7:25:03 AM	MMDadoda	8/5/2025 12:52:25 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL080425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2750-06	VL042805.D	Isopropyl Alcohol	SAM	8/5/2025 7:25:03 AM	MMDadoda	8/5/2025 12:52:25 PM	Peak Integrated by Software
Q2750-06	VL042805.D	Propene	SAM	8/5/2025 7:25:03 AM	MMDadoda	8/5/2025 12:52:25 PM	Peak Integrated by Software
Q2750-06	VL042805.D	Trichlorofluoromethane	SAM	8/5/2025 7:25:03 AM	MMDadoda	8/5/2025 12:52:25 PM	Peak Integrated by Software
Q2750-07	VL042806.D	2,2,4-Trimethylpentane	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software
Q2750-07	VL042806.D	Carbon Tetrachloride	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software
Q2750-07	VL042806.D	Ethyl Acetate	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software
Q2750-07	VL042806.D	Heptane	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software
Q2750-07	VL042806.D	Isopropyl Alcohol	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software
Q2750-07	VL042806.D	m/p-Xylene	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software
Q2750-07	VL042806.D	Propene	sam	8/6/2025 2:03:27 AM	MMdadoda	8/6/2025 2:04:40 AM	Peak Integrated by Software
Q2750-08	VL042807.D	2,2,4-Trimethylpentane	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software
Q2750-08	VL042807.D	Carbon Tetrachloride	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software
Q2750-08	VL042807.D	Dichlorodifluoromethane	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL080425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2750-08	VL042807.D	Ethyl Acetate	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software
Q2750-08	VL042807.D	Heptane	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software
Q2750-08	VL042807.D	m/p-Xylene	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software
Q2750-08	VL042807.D	Propene	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software
Q2750-08	VL042807.D	Tetrahydrofuran	sam	8/6/2025 2:03:34 AM	MMdadoda	8/6/2025 2:04:45 AM	Peak Integrated by Software
Q2750-09	VL042808.D	2,2,4-Trimethylpentane	SAM	8/5/2025 7:24:21 AM	MMDadoda	8/5/2025 12:52:34 PM	Peak Integrated by Software
Q2750-09	VL042808.D	Carbon Tetrachloride	SAM	8/5/2025 7:24:21 AM	MMDadoda	8/5/2025 12:52:34 PM	Peak Integrated by Software
Q2750-09	VL042808.D	Heptane	SAM	8/5/2025 7:24:21 AM	MMDadoda	8/5/2025 12:52:34 PM	Peak Integrated by Software
Q2750-09	VL042808.D	m/p-Xylene	SAM	8/5/2025 7:24:21 AM	MMDadoda	8/5/2025 12:52:34 PM	Peak Integrated by Software
Q2750-09	VL042808.D	Propene	SAM	8/5/2025 7:24:21 AM	MMDadoda	8/5/2025 12:52:34 PM	Peak Integrated by Software
Q2750-09	VL042808.D	Tetrahydrofuran	SAM	8/5/2025 7:24:21 AM	MMDadoda	8/5/2025 12:52:34 PM	Peak Integrated by Software
Q2750-10	VL042809.D	Carbon Tetrachloride	sam	8/6/2025 2:03:40 AM	MMdadoda	8/6/2025 2:04:50 AM	Peak Integrated by Software
Q2750-10	VL042809.D	m/p-Xylene	sam	8/6/2025 2:03:40 AM	MMdadoda	8/6/2025 2:04:50 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL080425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2750-10	VL042809.D	Propene	sam	8/6/2025 2:03:40 AM	MMdadoda	8/6/2025 2:04:50 AM	Peak Integrated by Software
Q2750-10	VL042809.D	tert-Butyl alcohol	sam	8/6/2025 2:03:40 AM	MMdadoda	8/6/2025 2:04:50 AM	Peak Integrated by Software
Q2750-10	VL042809.D	Tetrahydrofuran	sam	8/6/2025 2:03:40 AM	MMdadoda	8/6/2025 2:04:50 AM	Peak Integrated by Software
Q2750-10	VL042809.D	Toluene	sam	8/6/2025 2:03:40 AM	MMdadoda	8/6/2025 2:04:50 AM	Peak Integrated by Software
Q2750-10DL	VL042810.D	Propene	SAM	8/5/2025 7:23:58 AM	MMDadoda	8/5/2025 12:52:39 PM	Peak Integrated by Software
Q2750-03DL	VL042813.D	Propene	SAM	8/5/2025 7:23:12 AM	MMDadoda	8/5/2025 12:52:44 PM	Peak Integrated by Software
Q2750-04DUP	VL042814.D	1,2,4-Trimethylbenzene	sam	8/6/2025 2:03:45 AM	MMdadoda	8/6/2025 2:04:55 AM	Peak Integrated by Software
Q2750-04DUP	VL042814.D	Carbon Tetrachloride	sam	8/6/2025 2:03:45 AM	MMdadoda	8/6/2025 2:04:55 AM	Peak Integrated by Software
Q2750-04DUP	VL042814.D	m/p-Xylene	sam	8/6/2025 2:03:45 AM	MMdadoda	8/6/2025 2:04:55 AM	Peak Integrated by Software
Q2750-04DUP	VL042814.D	Methyl Methacrylate	sam	8/6/2025 2:03:45 AM	MMdadoda	8/6/2025 2:04:55 AM	Peak Integrated by Software
Q2750-04DUP	VL042814.D	Propene	sam	8/6/2025 2:03:45 AM	MMdadoda	8/6/2025 2:04:55 AM	Peak Integrated by Software
Q2750-04DUP	VL042814.D	Styrene	sam	8/6/2025 2:03:45 AM	MMdadoda	8/6/2025 2:04:55 AM	Peak Integrated by Software
Q2750-04DL	VL042815.D	Propene	SAM	8/5/2025 7:24:42 AM	MMDadoda	8/5/2025 12:52:50 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL080425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2750-05DL	VL042816.D	Propene	SAM	8/5/2025 7:25:17 AM	MMDadoda	8/5/2025 12:52:52 PM	Peak Integrated by Software
Q2750-06DL	VL042817.D	Propene	SAM	8/5/2025 7:23:18 AM	MMDadoda	8/5/2025 12:52:53 PM	Peak Integrated by Software
Q2750-07DL	VL042818.D	Propene	SAM	8/5/2025 7:24:46 AM	MMDadoda	8/5/2025 12:52:55 PM	Peak Integrated by Software
Q2750-08DL	VL042819.D	Propene	SAM	8/5/2025 7:23:40 AM	MMDadoda	8/5/2025 12:52:57 PM	Peak Integrated by Software
Q2750-01DL	VL042821.D	Propene	SAM	8/5/2025 7:23:28 AM	MMDadoda	8/5/2025 12:53:04 PM	Peak Integrated by Software
Q2750-02DL	VL042822.D	Propene	SAM	8/5/2025 7:23:35 AM	MMDadoda	8/5/2025 12:53:06 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL072325

Review By	Semsettin Yesilyurt	Review On	7/24/2025 9:04:14 AM				
Supervise By	Mahesh Dadoda	Supervise On	7/24/2025 2:21:30 PM				
SubDirectory	VL072325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL072325AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2645
Initial Calibration Stds	AP2641,AP2642,AP2643
CCC	AP2641
Internal Standard/PEM	AP2645
ICV/I.BLK	AP2644
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042746.D	23 Jul 2025 08:00	SY/MD	Ok
2	VSTDICCC010	VL042747.D	23 Jul 2025 08:58	SY/MD	Ok,M
3	VSTDICC002	VL042748.D	23 Jul 2025 09:34	SY/MD	Ok,M
4	VSTDICC001	VL042749.D	23 Jul 2025 10:08	SY/MD	Ok,M
5	VSTDICC0.5	VL042750.D	23 Jul 2025 10:42	SY/MD	Ok,M
6	VSTDICC0.1	VL042751.D	23 Jul 2025 11:16	SY/MD	Not Ok
7	VSTDICC0.03	VL042752.D	23 Jul 2025 11:50	SY/MD	Ok,M
8	VSTDICC015	VL042753.D	23 Jul 2025 12:26	SY/MD	Ok,M
9	VSTDICC0.1	VL042754.D	23 Jul 2025 13:00	SY/MD	Ok,M
10	VSTDICV010	VL042755.D	23 Jul 2025 14:33	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL080425

Review By	Mahesh Dadoda	Review On	8/5/2025 12:53:31 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/5/2025 12:54:22 PM		
SubDirectory	VL080425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL072325AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2645
Initial Calibration Stds	AP2641,AP2642,AP2643
CCC	AP2641
Internal Standard/PEM	AP2645
ICV/I.BLK	AP2644
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042795.D	04 Aug 2025 07:40	SY/MD	Ok
2	VSTDCCC010	VL042796.D	04 Aug 2025 09:31	SY/MD	Ok,M
3	VL0804ABL01	VL042797.D	04 Aug 2025 10:15	SY/MD	Ok
4	VL0804ABS01	VL042798.D	04 Aug 2025 10:58	SY/MD	Ok,M
5	Q2750-01	VL042799.D	04 Aug 2025 11:49	SY/MD	Dilution
6	Q2750-01DUP	VL042800.D	04 Aug 2025 12:23	SY/MD	Ok,M
7	Q2750-02	VL042801.D	04 Aug 2025 12:56	SY/MD	Dilution
8	Q2750-03	VL042802.D	04 Aug 2025 13:30	SY/MD	Dilution
9	Q2750-04	VL042803.D	04 Aug 2025 14:03	SY/MD	Dilution
10	Q2750-05	VL042804.D	04 Aug 2025 14:37	SY/MD	Dilution
11	Q2750-06	VL042805.D	04 Aug 2025 15:10	SY/MD	Dilution
12	Q2750-07	VL042806.D	04 Aug 2025 15:44	SY/MD	Dilution
13	Q2750-08	VL042807.D	04 Aug 2025 16:17	SY/MD	Dilution
14	Q2750-09	VL042808.D	04 Aug 2025 16:51	SY/MD	Ok,M
15	Q2750-10	VL042809.D	04 Aug 2025 17:26	SY/MD	Dilution
16	Q2750-10DL	VL042810.D	04 Aug 2025 18:00	SY/MD	Ok,M
17	Q2750-01DL	VL042811.D	04 Aug 2025 18:34	SY/MD	Not Ok
18	Q2750-02DL	VL042812.D	04 Aug 2025 19:07	SY/MD	Not Ok
19	Q2750-03DL	VL042813.D	04 Aug 2025 19:41	SY/MD	Ok,M
20	Q2750-04DUP	VL042814.D	04 Aug 2025 20:15	SY/MD	Ok,M
21	Q2750-04DL	VL042815.D	04 Aug 2025 20:49	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 # VL080425

Review By	Mahesh Dadoda	Review On	8/5/2025 12:53:31 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/5/2025 12:54:22 PM		
SubDirectory	VL080425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL072325AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2645
Initial Calibration Stds	AP2641,AP2642,AP2643
CCC	AP2641
Internal Standard/PEM	AP2645
ICV/I.BLK	AP2644
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2750-05DL	VL042816.D	04 Aug 2025 21:23	SY/MD	Ok,M
23	Q2750-06DL	VL042817.D	04 Aug 2025 21:57	SY/MD	Ok,M
24	Q2750-07DL	VL042818.D	04 Aug 2025 22:31	SY/MD	Ok,M
25	Q2750-08DL	VL042819.D	04 Aug 2025 23:04	SY/MD	Ok,M
26	Q2750-09DL	VL042820.D	04 Aug 2025 23:38	SY/MD	Not Ok
27	Q2750-01DL	VL042821.D	05 Aug 2025 00:12	SY/MD	Ok,M
28	Q2750-02DL	VL042822.D	05 Aug 2025 00:45	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 # VL072325

Review By	Semsettin Yesilyurt	Review On	7/24/2025 9:04:14 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/24/2025 2:21:30 PM		
SubDirectory	VL072325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL072325AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2645
Initial Calibration Stds	AP2641,AP2642,AP2643
CCC	AP2641
Internal Standard/PEM	AP2645
ICV/I.BLK	AP2644
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042746.D	23 Jul 2025 08:00		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042747.D	23 Jul 2025 08:58		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042748.D	23 Jul 2025 09:34		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042749.D	23 Jul 2025 10:08	Comp. #13,79,80,81 are on Linear Regression	SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042750.D	23 Jul 2025 10:42		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042751.D	23 Jul 2025 11:16	Not used	SY/MD	Not Ok
7	VSTDICC0.03	VSTDICC0.03	VL042752.D	23 Jul 2025 11:50		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042753.D	23 Jul 2025 12:26	%D failed for Comp. #80 in 0.5 and 2 ppb	SY/MD	Ok,M
9	VSTDICC0.1	VSTDICC0.1	VL042754.D	23 Jul 2025 13:00	%D failed for Comp. #79 in 0.1 ppb	SY/MD	Ok,M
10	VSTDICV010	ICVVL072325	VL042755.D	23 Jul 2025 14:33		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL080425

Review By	Mahesh Dadoda	Review On	8/5/2025 12:53:31 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/5/2025 12:54:22 PM		
SubDirectory	VL080425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL072325AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2645
Initial Calibration Stds	AP2641,AP2642,AP2643
CCC	AP2641
Internal Standard/PEM	AP2645
ICV/I.BLK	AP2644
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042795.D	04 Aug 2025 07:40		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042796.D	04 Aug 2025 09:31		SY/MD	Ok,M
3	VL0804ABL01	VL0804ABL01	VL042797.D	04 Aug 2025 10:15		SY/MD	Ok
4	VL0804ABS01	VL0804ABS01	VL042798.D	04 Aug 2025 10:58		SY/MD	Ok,M
5	Q2750-01	WONDER IA-2	VL042799.D	04 Aug 2025 11:49	Need 20X	SY/MD	Dilution
6	Q2750-01DUP	WONDER IA-2DUP	VL042800.D	04 Aug 2025 12:23		SY/MD	Ok,M
7	Q2750-02	WONDER IA-3	VL042801.D	04 Aug 2025 12:56	Need 20X	SY/MD	Dilution
8	Q2750-03	WONDER IA-4	VL042802.D	04 Aug 2025 13:30	Need 20X	SY/MD	Dilution
9	Q2750-04	WONDER IA-5	VL042803.D	04 Aug 2025 14:03	Need 20X	SY/MD	Dilution
10	Q2750-05	WONDER IA-6	VL042804.D	04 Aug 2025 14:37	Need 20X	SY/MD	Dilution
11	Q2750-06	WONDER IA-7	VL042805.D	04 Aug 2025 15:10	Need 20X	SY/MD	Dilution
12	Q2750-07	WONDER IA-8	VL042806.D	04 Aug 2025 15:44	Need 20X	SY/MD	Dilution
13	Q2750-08	WONDER IA-9	VL042807.D	04 Aug 2025 16:17	Need 20X	SY/MD	Dilution
14	Q2750-09	WONDER IA-10	VL042808.D	04 Aug 2025 16:51		SY/MD	Ok,M
15	Q2750-10	WONDER IA-11	VL042809.D	04 Aug 2025 17:26	Need 10X	SY/MD	Dilution
16	Q2750-10DL	WONDER IA-11DL	VL042810.D	04 Aug 2025 18:00		SY/MD	Ok,M
17	Q2750-01DL	WONDER IA-2DL	VL042811.D	04 Aug 2025 18:34	Need further dilution	SY/MD	Not Ok
18	Q2750-02DL	WONDER IA-3DL	VL042812.D	04 Aug 2025 19:07	Need further dilution	SY/MD	Not Ok

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL080425

Review By	Mahesh Dadoda	Review On	8/5/2025 12:53:31 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/5/2025 12:54:22 PM		
SubDirectory	VL080425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL072325AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2645
Initial Calibration Stds	AP2641,AP2642,AP2643
CCC	AP2641
Internal Standard/PEM	AP2645
ICV/I.BLK	AP2644
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2750-03DL	WONDER IA-4DL	VL042813.D	04 Aug 2025 19:41		SY/MD	Ok,M
20	Q2750-04DUP	WONDER IA-5DUP	VL042814.D	04 Aug 2025 20:15		SY/MD	Ok,M
21	Q2750-04DL	WONDER IA-5DL	VL042815.D	04 Aug 2025 20:49		SY/MD	Ok,M
22	Q2750-05DL	WONDER IA-6DL	VL042816.D	04 Aug 2025 21:23		SY/MD	Ok,M
23	Q2750-06DL	WONDER IA-7DL	VL042817.D	04 Aug 2025 21:57		SY/MD	Ok,M
24	Q2750-07DL	WONDER IA-8DL	VL042818.D	04 Aug 2025 22:31		SY/MD	Ok,M
25	Q2750-08DL	WONDER IA-9DL	VL042819.D	04 Aug 2025 23:04		SY/MD	Ok,M
26	Q2750-09DL	WONDER IA-10DL	VL042820.D	04 Aug 2025 23:38	Not Required	SY/MD	Not Ok
27	Q2750-01DL	WONDER IA-2DL	VL042821.D	05 Aug 2025 00:12		SY/MD	Ok,M
28	Q2750-02DL	WONDER IA-3DL	VL042822.D	05 Aug 2025 00:45		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 : Q2750

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: VL080425,

Standard ID :
AP2641,AP2642,AP2643,AP2644,AP2645,

Chemical ID :
A1117,A1138,A1139,A1140,

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

Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2396	TO-15 15 PPBV CAL MIX	AP2641	07/16/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/28/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1140 = Final Quantity: 30.000 psi

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2397	TO-15 -2 PPBV CAL.MIX	AP2642	07/16/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/28/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2641 = Final Quantity: 30.000 psi

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

Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2668	0.5 PPBV CAL.MIX	AP2643	07/16/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/28/2025

FROM 29.00000psi of A1117 + 1.00000psi of AP2641 = 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	AP2644	07/16/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/28/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1139 = Final Quantity: 30.000 psi

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

Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
47	Internal Standard/Surrogate Mix-80 ppbv	AP2645	07/22/2025	08/23/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/28/2025

FROM 2.40000psi of A1138 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TB500009-110 / TO-15 Internal Standard/Surrogate Standard	BC275465	12/16/2025	07/15/2025 / SAM	07/14/2025 / SAM	A1138

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003AR	04/16/2026	07/16/2025 / SAM	07/14/2025 / SAM	A1139

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003BR	04/16/2026	07/16/2025 / SAM	07/14/2025 / SAM	A1140

Rec: 07/14/25

CUSTOMGAS
SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

A 1138

Certificate of Analysis

Customer:

Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC275465
Cylinder Size/CGA: 170/180SS
Fill Pressure: 1815 PSIA
Gas Volume: ~170 liters
Date of Mfg: 07/16/2024
Expiration Date: 012/16/2025

Ship To : Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Bromochloromethane	1 ppm	1.014 ppm +/- 0.02 ppm	Gravimetric Master Gas
4-Bromofluorobenzene	1 ppm	1.008 ppm +/- 0.02 ppm	
Chlorobenzene-D5	1 ppm	0.993 ppm +/- 0.02 ppm	
1,4-Difluorbenzene	1 ppm	0.979 ppm +/- 0.02 ppm	
Nitrogen	balance	balance	

NOTES:

Blend Tolerance: +/- 10 %

Analytical Tolerance: +/- 5 %

Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis

Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.

Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Rec 07/14/25

CUSTOMGAS
SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

A1139

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: BC315629
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 04/16/2025
Expiration Date: 04/16/2026
Lot Number: 040424-003AR

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003R	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	519 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	537 ppb +/- 50 ppb	
Acrolein	500 ppb	542 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	532 ppb +/- 50 ppb	
Allyl chloride	500 ppb	509 ppb +/- 50 ppb	
Benzene	500 ppb	486 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	492 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	512 ppb +/- 50 ppb	
Bromoform	500 ppb	497 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	506 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	529 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	527 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	527 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	527 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	487 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	509 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	494 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	490 ppb +/- 50 ppb	
Chloroform	500 ppb	495 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	529 ppb +/- 50 ppb	
Cyclohexane	500 ppb	482 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	491 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	510 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	489 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	490 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	508 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	494 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	499 ppb +/- 50 ppb	
1,1-Dichlororethylene	500 ppb	496 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	491 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	491 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	492 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	518 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	468 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	507 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	486 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	488 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	552 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	499 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	509 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	488 ppb +/- 50 ppb	
n-Heptane	500 ppb	487 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	489 ppb +/- 50 ppb	
2-Hexanone	500 ppb	493 ppb +/- 50 ppb	
n-Hexane	500 ppb	485 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	511 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	524 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	532 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	505 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	509 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	496 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	493 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	529 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	483 ppb +/- 50 ppb	
Methylene chloride	500 ppb	498 ppb +/- 50 ppb	
Naphthalene	500 ppb	539 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	529 ppb +/- 50 ppb	
Propylene	500 ppb	508 ppb +/- 50 ppb	
Styrene	500 ppb	485 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	532 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	534 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	487 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	535 ppb +/- 50 ppb	
Toluene	500 ppb	491 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	494 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	488 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	508 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	495 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	494 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	498 ppb +/- 50 ppb	
2,2,4- Trimethylpentane	500 ppb	489 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	499 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	501 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	509 ppb +/- 50 ppb	
m-Xylene	500 ppb	495 ppb +/- 50 ppb	
o-Xylene	500 ppb	482 ppb +/- 50 ppb	
p-Xylene	500 ppb	488 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

NOTES:	**Blend Tolerance:**	+/- 20 %
	Analytical Tolerance:	+/- 10 %
	Traceability:	NIST by weight set. NIST Traceability No MT001810. Internal Standards by analysis
	Reactive Mixtures:	Analyzed twice with required agreement between analyses of 2%. Required wait time between analyses of >7 days.
	Caution:	Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:



Date: 04/16/2025



*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.

Rec 07/14/25

CUSTOMGAS
SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

A1140

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: AD49101
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 04/16/2025
Expiration Date: 04/16/2026
Lot Number: 040424-003BR

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003R	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	460 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	471 ppb +/- 50 ppb	
Acrolein	500 ppb	480 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	476 ppb +/- 50 ppb	
Allyl chloride	500 ppb	453 ppb +/- 50 ppb	
Benzene	500 ppb	431 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	436 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	454 ppb +/- 50 ppb	
Bromoform	500 ppb	441 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	449 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	469 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	467 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	467 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	467 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	432 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	451 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	438 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	474 ppb +/- 50 ppb	
Chloroform	500 ppb	438 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	469 ppb +/- 50 ppb	
Cyclohexane	500 ppb	430 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	437 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	454 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	435 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	476 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	452 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	438 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	442 ppb +/- 50 ppb	
1,1-Dichlororethylene	500 ppb	439 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	435 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	435 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	436 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	460 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	415 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	450 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	431 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	433 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	489 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	442 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	451 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	432 ppb +/- 50 ppb	
n-Heptane	500 ppb	434 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	436 ppb +/- 50 ppb	
2-Hexanone	500 ppb	437 ppb +/- 50 ppb	
n-Hexane	500 ppb	432 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	455 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	465 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	530 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	450 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	453 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	442 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	439 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	469 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	430 ppb +/- 50 ppb	
Methylene chloride	500 ppb	443 ppb +/- 50 ppb	
Naphthalene	500 ppb	478 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	525 ppb +/- 50 ppb	
Propylene	500 ppb	452 ppb +/- 50 ppb	
Styrene	500 ppb	432 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	471 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	431 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	434 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	477 ppb +/- 50 ppb	
Toluene	500 ppb	438 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	440 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	440 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	440 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	435 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	453 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	441 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	440 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	444 ppb +/- 50 ppb	
2,2,4- Trimethylpentane	500 ppb	435 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	444 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	450 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	451 ppb +/- 50 ppb	
m-Xylene	500 ppb	439 ppb +/- 50 ppb	
o-Xylene	500 ppb	427 ppb +/- 50 ppb	
p-Xylene	500 ppb	433 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	497 ppb +/- 50 ppb	
R-22	500 ppb	435 ppb +/- 50 ppb	
Nitrogen	balance	balance	

NOTES:	**Blend Tolerance:**	+/- 20 %
	Analytical Tolerance:	+/- 10 %
	Traceability:	NIST by weight set. NIST Traceability No MT001810. Internal Standards by analysis
	Reactive Mixtures:	Analyzed twice with required agreement between analyses of 2%. Required wait time between analyses of >7 days.
	Caution:	Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

Date: 04/16/2025





*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Alliance TECHNICAL GROUP

Process Report

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

Order ID : Q2750

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
08/01/2025	B2507054	Q2750-04	-4.3	10606	6 L	10222		C2506003	**VL042702.D** Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-03	-6.7	10601	6 L	10207		C2506003	**VL042702.D** Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-09	-6.7	10590	6 L	10190		C2507001	**VL042703.D** Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-05	-6.3	10492	6 L	10478		C2506003	**VL042702.D** Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-06	-5.1	10321	6 L	10785		C2506003	**VL042702.D** Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-08	-5.9	10315	6 L	10206		C2506003	**VL042702.D** Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D

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

Process Report

Order ID : Q2750

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
08/01/2025	B2507054	Q2750-01	-4.7	10280	6 L	10110		C2506003	**VL042702.D** Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-02	-6.7	10279	6 L	10172		C2505005	**VL042598.D** Seq :vl052925 TUNE : VL042578.D ICAL : VL042584.D CCAL : VL042579.D MB : VL042588.D
08/01/2025	B2507054	Q2750-07	-5.5	10198	6 L	10771		C2506003	**VL042702.D** Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-10	-9.6	10153	6 L	10537		C2507001	**VL042703.D** Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D

Canister Cleaning

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

Canister Batch : C2507001

Type of Canister : 6 L

Cleaning Date : 07/02/2025

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
10153	-30	07/03/2025	07/03/2025	-30	07/07/2025	Q2750-10	10311	VL042703.D
10598	-30	07/03/2025	07/03/2025	-30	07/07/2025		10311	VL042703.D
10590	-30	07/03/2025	07/03/2025	-30	07/07/2025	Q2750-09	10311	VL042703.D
10311	-30	07/03/2025	07/03/2025	-30	07/07/2025		10311	VL042703.D

Canister Cleaning

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

Canister Batch : C2506003

Type of Canister : 6 L

Cleaning Date : 06/30/2025

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
10606	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-04	10606	VL042702.D
10321	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-06	10606	VL042702.D
10280	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-01	10606	VL042702.D
10492	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-05	10606	VL042702.D
10315	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-08	10606	VL042702.D
10588	-30	07/01/2025	07/03/2025	-30	07/02/2025		10606	VL042702.D
10601	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-03	10606	VL042702.D
10198	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-07	10606	VL042702.D

Canister Cleaning

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

Canister Batch : C2505005

Type of Canister : 6 L

Cleaning Date : 05/27/2025

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
10279	-30	05/28/2025	05/29/2025	-30	05/29/2025	Q2750-02	10609	VL042598.D
10609	-30	05/28/2025	05/29/2025	-30	05/29/2025		10609	VL042598.D
10296	-30	05/28/2025	05/29/2025	-30	05/29/2025		10609	VL042598.D
10604	-30	05/28/2025	05/29/2025	-30	05/29/2025		10609	VL042598.D

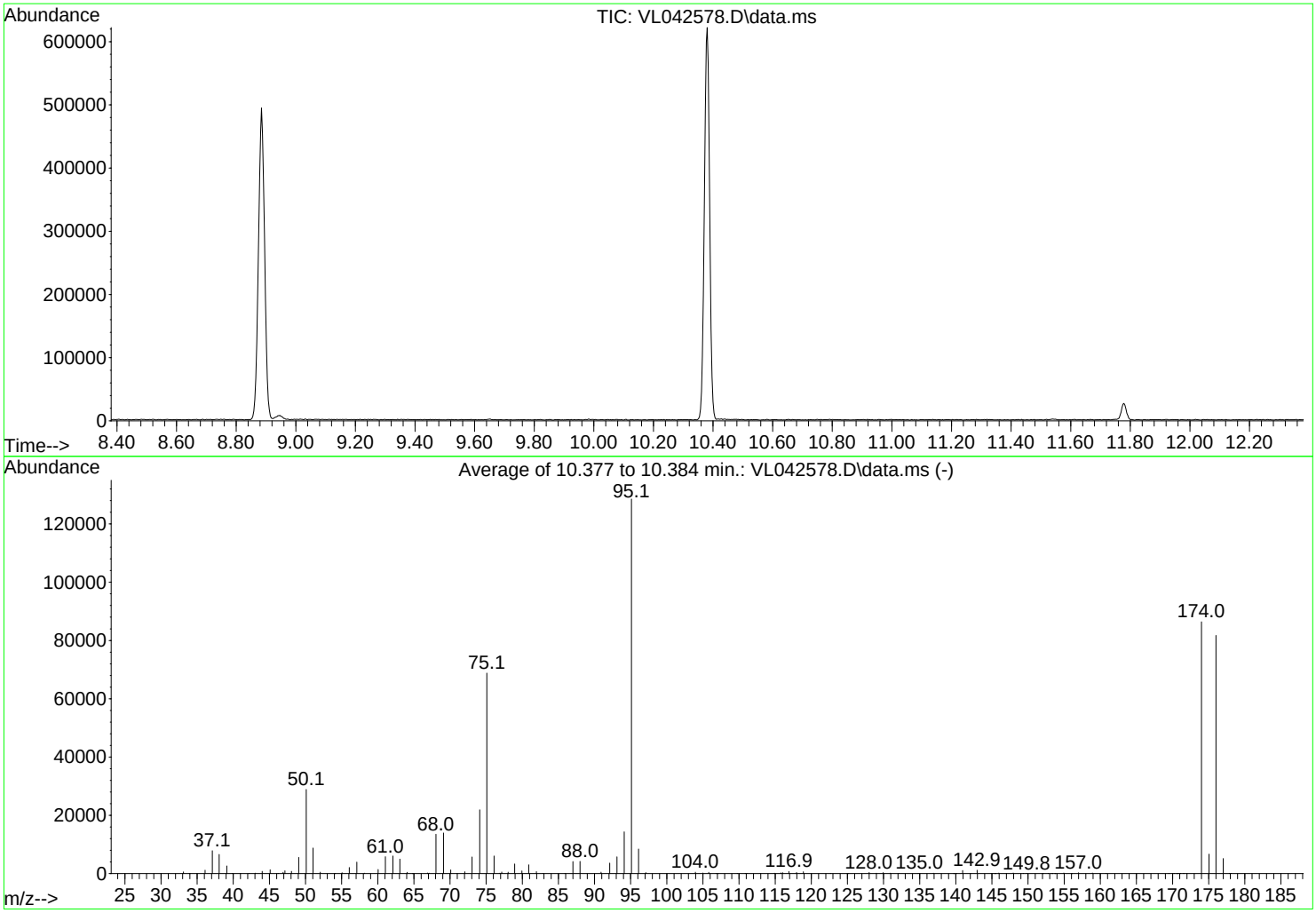
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042578.D
Acq On : 29 May 2025 08:05
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\VL052025AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed May 21 00:21:29 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.4	28861	PASS
75	95	30	66	53.5	68792	PASS
95	95	100	100	100.0	128557	PASS
96	95	5	9	6.6	8426	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	67.2	86397	PASS
175	174	4	9	7.7	6664	PASS
176	174	93	101	94.6	81744	PASS
177	176	5	9	6.3	5154	PASS

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL052925AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri May 30 02:01:56 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL042584.D 0.1 =VL042583.D 0.5 =VL042582.D 1 =VL042581.D 2 =VL042580.D 10 =VL042579.D 15 =VL042585.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.257	1.353	1.300	1.135	1.101	1.229	8.78
3)		Chlorodifluoro...			1.881	1.861	1.826	1.475	1.420	1.693	13.32
4)		Chloromethane			0.502	0.529	0.507	0.461	0.434	0.487	7.85
5)	T	Vinyl Chloride	0.675	0.465	0.529	0.487	0.468	0.437	0.409	0.496	17.69
6)	T	Bromomethane			0.310	0.251	0.230	0.216	0.200	0.241	17.69
7)		Chloroethane			0.214	0.212	0.198	0.175	0.164	0.193	11.60
8)	T	Dichlorotetraf...			1.099	1.098	1.075	0.948	0.900	1.024	9.11
9)	T	Propene			0.710	0.728	0.722	0.650	0.599	0.682	8.18
10)	T	Heptane			2.079	2.082	1.981	1.777	1.688	1.921	9.37
11)	T	Trichlorofluor...			1.193	1.209	1.202	1.071	1.043	1.144	6.98
12)	T	1,1,2-Trichlor...			0.903	0.980	0.951	0.838	0.818	0.898	7.79
13)		Ethanol			0.114	0.095	0.092	0.058	0.047	0.081	33.96
14)	T	Bromoethene			0.359	0.346	0.362	0.317	0.304	0.338	7.71
15)	T	Acetone			1.404	1.484	1.299	0.928	0.908	1.205	22.39
16)	T	1,3-Butadiene			0.649	0.636	0.597	0.491	0.480	0.571	14.07
17)		tert-Butyl alc...			1.337	1.334	1.279	1.237	1.088	1.255	8.14
18)	T	1,1-Dichloroet...			0.451	0.451	0.437	0.377	0.364	0.416	10.11
19)	T	Isopropyl Alcohol			0.825	0.782	0.742	0.659	0.593	0.720	13.03
20)	T	Methylene Chlo...			0.473	0.457	0.418	0.326	0.314	0.398	18.57
21)	T	Allyl Chloride			0.924	0.921	0.866	0.789	0.749	0.850	9.22
22)	T	trans-1,2-Dich...			0.496	0.517	0.466	0.427	0.418	0.465	9.21
23)	T	Vinyl Acetate			1.750	1.663	1.686	1.458	1.584	1.628	6.89
24)	T	1,1-Dichloroet...			0.996	1.046	1.004	0.903	0.833	0.957	9.03
25)	T	Ethyl Acetate			3.496	3.585	3.412	3.054	2.934	3.296	8.67
26)	T	Hexane			1.690	1.638	1.526	1.350	1.286	1.498	11.76
27)	T	Carbon Disulfide			1.174	1.267	1.198	1.069	1.040	1.150	8.16
28)	T	Methyl tert-Bu...			0.664	0.693	0.621	0.550	0.511	0.608	12.59
29)	T	Chloroform			2.099	2.120	2.034	1.755	1.731	1.948	9.74
30)	T	Cyclohexane			1.318	1.363	1.288	1.146	1.092	1.242	9.38
31)	T	cis-1,2-Dichlo...			1.419	1.461	1.465	1.271	1.235	1.370	7.96
32)	T	1,1,1-Trichlor...	2.207	2.083	2.004	2.043	2.029	1.794	1.771	1.990	7.86
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.760	0.754	0.746	0.655	0.651	0.713	7.71
35)	T	Carbon Tetrach...	0.681	0.706	0.665	0.684	0.670	0.603	0.612	0.660	5.82
36)	T	Benzene			1.051	1.052	1.027	0.900	0.894	0.985	8.20
37)	T	1,2-Dichloroet...			0.518	0.509	0.513	0.448	0.460	0.489	6.72
38)	T	Trichloroethene	0.389	0.432	0.468	0.455	0.438	0.376	0.373	0.419	9.28
39)	T	1,2-Dichloropr...			0.415	0.374	0.373	0.329	0.330	0.364	9.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL052925AIR.M

40)	T	1,4-Dioxane		0.172	0.178	0.168	0.152	0.145	0.163	8.70
41)	T	Tetrahydrofuran		0.445	0.446	0.426	0.388	0.382	0.417	7.33
42)	T	Bromodichlorom...		0.702	0.737	0.721	0.656	0.660	0.695	5.17
43)		Methyl Methacr...		0.398	0.384	0.406	0.366	0.357	0.382	5.36
44)	T	2,2,4-Trimethy...		1.811	1.830	1.765	1.522	1.495	1.684	9.67
45)	T	t-1,3-Dichloro...		0.433	0.455	0.456	0.424	0.418	0.437	4.01
46)	T	cis-1,3-Dichlo...		0.567	0.568	0.555	0.527	0.523	0.548	3.99
47)	T	1,1,2-Trichlor...		0.406	0.401	0.394	0.343	0.340	0.377	8.69
48)	T	Dibromochlorom...		0.600	0.642	0.635	0.570	0.571	0.603	5.64
49)	T	Bromoform		0.524	0.519	0.553	0.508	0.501	0.521	3.83
50)	T	4-Methyl-2-Pen...		1.036	1.030	1.002	0.958	0.919	0.989	5.05
51)	T	2-Hexanone		0.752	0.818	0.824	0.779	0.749	0.784	4.49
52)	T	Tetrachloroethene	0.351	0.407	0.391	0.383	0.390	0.333	0.321	0.368	8.93
53)	T	Toluene		1.210	1.190	1.197	1.054	1.040	1.138	7.35
54)	T	1,2-Dibromoethane	0.575	0.578	0.590	0.576	0.516	0.513	0.558	6.15
55)	I	Chlorobenzene-d5	----------ISTD----------							
56)		1,1,1,2-Tetrac...		0.520	0.536	0.528	0.467	0.464	0.503	6.95
57)	T	Chlorobenzene		1.081	1.028	1.014	0.868	0.865	0.971	10.17
58)	T	Ethyl Benzene		1.770	1.786	1.833	1.547	1.545	1.696	8.19
59)	T	m/p-Xylene		1.411	1.412	1.431	1.212	1.208	1.335	8.55
60)	T	o-Xylene		1.430	1.410	1.441	1.187	1.188	1.331	9.87
61)	T	Styrene		0.626	0.658	0.678	0.590	0.596	0.629	6.07
62)		Isopropylbenzene		2.060	2.129	2.121	1.772	1.751	1.967	9.62
63)	T	1,1,2,2-Tetrac...	1.054	0.828	0.879	0.861	0.855	0.723	0.727	0.847	13.16
64)		n-propylbenzene		0.579	0.541	0.570	0.471	0.475	0.527	9.74
65)		tert-Butylbenzene		1.945	1.923	1.942	1.577	1.538	1.785	11.68
66)	T	Benzyl Chloride		0.199	0.237	0.252	0.241	0.220	0.230	8.94
67)		sec-Butylbenzene		2.745	2.743	2.699	2.195	2.165	2.509	12.01
68)	S	1-Bromo-4-Fluo...	0.752	0.751	0.755	0.751	0.741	0.744	0.754	0.750	0.68
69)		p-Isopropyltol...		2.241	2.249	2.299	1.868	1.851	2.101	10.57
70)		n-Butylbenzene		2.110	2.267	2.299	1.842	1.853	2.074	10.56
71)		2-Chlorotoluene		1.603	1.620	1.596	1.343	1.339	1.500	9.70
72)	T	4-Ethyltoluene		1.704	1.797	1.823	1.481	1.494	1.660	9.86
73)	T	1,3,5-Trimethy...		1.441	1.482	1.475	1.235	1.236	1.374	9.25
74)	T	1,2,4-Trimethy...		1.640	1.675	1.666	1.335	1.306	1.524	12.26
75)	T	1,3-Dichlorobe...		1.031	1.034	1.040	0.839	0.843	0.957	11.13
76)	T	1,4-Dichlorobe...		0.998	1.040	1.037	0.849	0.851	0.955	10.18
77)	T	1,2-Dichlorobe...		1.019	1.008	1.027	0.798	0.793	0.929	13.14
78)	T	Hexachloro-1,3...		0.872	0.893	0.880	0.607	0.593	0.769	20.11
79)	T	Naphthalene	1.088	1.366	1.634	1.785	1.383	1.366	1.437	16.89
80)	T	Naphthalene,2-...		0.444	0.562	0.781	0.716	0.743	0.649	21.85
81)	T	1,2,4-Trichlor...		0.716	0.889	0.944	0.735	0.727	0.802	13.26

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042579.D
Acq On : 29 May 2025 11:09
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:16:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	102792	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	307854	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	285844	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	212758	9.929	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	116625	9.232	ppbv	100
3) Chlorodifluoromethane	1.476	51	151637	8.715	ppbv	100
4) Chloromethane	1.534	50	47416	9.478	ppbv	100
5) Vinyl Chloride	1.580	62	44895	8.809	ppbv	100
6) Bromomethane	1.667	94	22207	8.953	ppbv	100
7) Chloroethane	1.706	64	17953	9.066	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	97419	9.255	ppbv	100
9) Propene	1.483	41	66767	9.529	ppbv	100
10) Heptane	4.981	43	182619	9.236	ppbv	100
11) Trichlorofluoromethane	1.877	101	110055	9.363	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	86117	9.330	ppbv	100
13) Ethanol	1.722	45	5975m	7.639	ppbv	
14) Bromoethene	1.784	108	32588	9.386	ppbv	100
15) Acetone	1.835	43	95441	7.708	ppbv	100
16) 1,3-Butadiene	1.609	39	50485	8.607	ppbv	100
17) tert-Butyl alcohol	2.043	59	127162	9.858	ppbv	100
18) 1,1-Dichloroethene	2.036	96	38765	9.026	ppbv	100
19) Isopropyl Alcohol	1.887	45	67731	9.151	ppbv	100
20) Methylene Chloride	2.062	84	33544	8.209	ppbv	100
21) Allyl Chloride	2.098	41	81153	9.289	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	43936	9.165	ppbv	100
23) Vinyl Acetate	2.467	43	149858	8.954	ppbv	100
24) 1,1-Dichloroethane	2.412	63	92836	9.442	ppbv	100
25) Ethyl Acetate	2.839	43	313915	9.264	ppbv	100
26) Hexane	2.829	57	138771	9.013	ppbv	100
27) Carbon Disulfide	2.153	76	109904	9.298	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	56510	9.045	ppbv	100
29) Chloroform	2.852	83	180449	9.013	ppbv	100
30) Cyclohexane	3.858	84	117833	9.232	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	130618	9.274	ppbv	100
32) 1,1,1-Trichloroethane	3.370	97	184372	9.177	ppbv	100
34) 2-Butanone	2.560	43	201796	9.192	ppbv	100
35) Carbon Tetrachloride	3.768	117	185629	9.132	ppbv	100
36) Benzene	3.661	78	277132	9.142	ppbv	100
37) 1,2-Dichloroethane	3.221	62	137914	9.153	ppbv	100
38) Trichloroethene	4.551	130	115772	8.916	ppbv	100
39) 1,2-Dichloropropane	4.318	63	101185	9.029	ppbv	100
40) 1,4-Dioxane	4.590	88	46671	9.797	ppbv #	100
41) Tetrahydrofuran	3.059	42	119530	9.301	ppbv	100
42) Bromodichloromethane	4.496	83	202026	9.441	ppbv	100
43) Methyl Methacrylate	4.884	69	112746	9.595	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	468572	9.043	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	130611	9.700	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042579.D
Acq On : 29 May 2025 11:09
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:16:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	162155	9.614	ppbv	100
47) 1,1,2-Trichloroethane	6.587	97	105576	9.097	ppbv	100
48) Dibromochloromethane	7.396	129	175572	9.450	ppbv	100
49) Bromoform	9.490	173	156317	9.751	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	294836	9.643	ppbv	100
51) 2-Hexanone	7.445	43	239826	9.930	ppbv	100
52) Tetrachloroethene	8.231	164	102403	9.038	ppbv	100
53) Toluene	6.943	91	324605	9.264	ppbv	100
54) 1,2-Dibromoethane	7.658	107	158813	9.231	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	133368	9.279	ppbv	100
57) Chlorobenzene	8.927	112	248085	8.938	ppbv	100
58) Ethyl Benzene	9.361	91	442268	9.121	ppbv	100
59) m/p-Xylene	9.539	91	692934m	18.156	ppbv	
60) o-Xylene	9.969	91	339403	8.919	ppbv	100
61) Styrene	9.875	104	168674	9.374	ppbv	100
62) Isopropylbenzene	10.545	105	506586	9.010	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	206564	8.536	ppbv	100
64) n-propylbenzene	10.992	120	134675	8.936	ppbv	99
65) tert-Butylbenzene	11.536	119	450639	8.833	ppbv	100
66) Benzyl Chloride	11.620	91	68801	10.457	ppbv	100
67) sec-Butylbenzene	11.772	105	627565	8.749	ppbv	100
69) p-Isopropyltoluene	11.931	119	533961	8.889	ppbv	100
70) n-Butylbenzene	12.287	91	526566	8.881	ppbv	100
71) 2-Chlorotoluene	10.904	91	383881	8.952	ppbv	100
72) 4-Ethyltoluene	11.131	105	423227	8.920	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	352978	8.989	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	381512	8.755	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	239782	8.762	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	242731	8.894	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	228222	8.593	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	173447	7.893	ppbv	100
79) Naphthalene	13.516	128	395465	9.666	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	204746	11.045	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	210120	9.163	ppbv	100

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

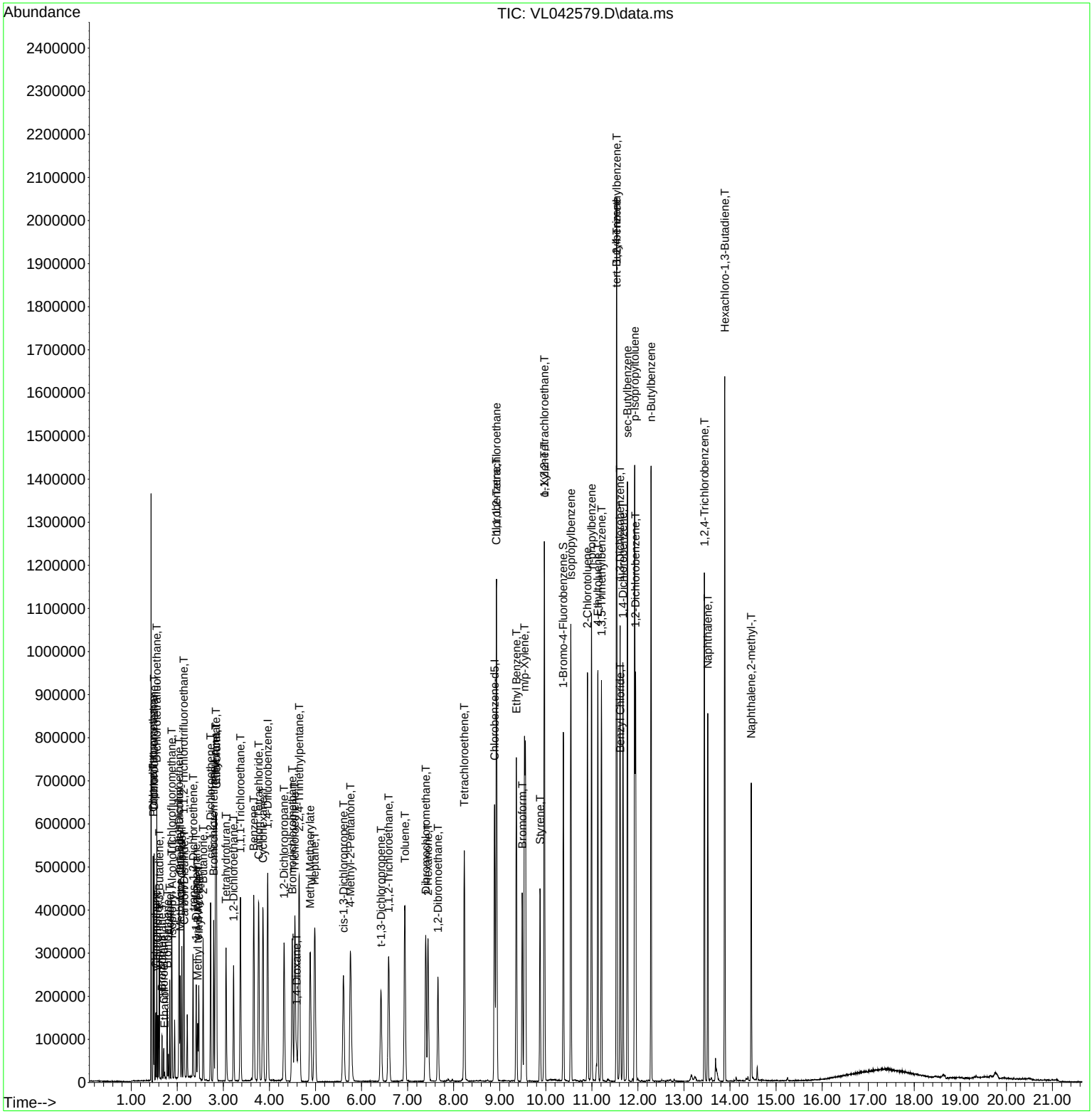
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042579.D
Acq On : 29 May 2025 11:09
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:16:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042580.D
Acq On : 29 May 2025 11:43
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:17:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	104930	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.965	114	310090	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	284199	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	210508	9.881	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	27278	2.115	ppbv		99
3) Chlorodifluoromethane	1.476	51	38320	2.157	ppbv		98
4) Chloromethane	1.534	50	10641	2.084	ppbv		98
5) Vinyl Chloride	1.580	62	9819	1.887	ppbv		98
6) Bromomethane	1.670	94	4819	1.903	ppbv		83
7) Chloroethane	1.706	64	4162	2.059	ppbv	#	85
8) Dichlorotetrafluoroethane	1.554	85	22568	2.100	ppbv		98
9) Propene	1.483	41	15155	2.119	ppbv		96
10) Heptane	4.988	43	41577	2.060	ppbv		97
11) Trichlorofluoromethane	1.878	101	25215	2.101	ppbv		94
12) 1,1,2-Trichlorotrifluo...	2.143	101	19963	2.119	ppbv		99
13) Ethanol	1.722	45	1925m	2.411	ppbv		
14) Bromoethene	1.784	108	7607	2.146	ppbv	#	94
15) Acetone	1.839	43	27254	2.156	ppbv		100
16) 1,3-Butadiene	1.609	39	12523	2.092	ppbv		95
17) tert-Butyl alcohol	2.046	59	26842	2.039	ppbv		96
18) 1,1-Dichloroethene	2.036	96	9179	2.094	ppbv		95
19) Isopropyl Alcohol	1.887	45	15567	2.060	ppbv	#	43
20) Methylene Chloride	2.062	84	8763	2.101	ppbv		95
21) Allyl Chloride	2.098	41	18178	2.038	ppbv		91
22) trans-1,2-Dichloroethene	2.344	96	9775	1.998	ppbv		97
23) Vinyl Acetate	2.467	43	35373	2.070	ppbv	#	96
24) 1,1-Dichloroethane	2.412	63	21077	2.100	ppbv		98
25) Ethyl Acetate	2.842	43	71613	2.070	ppbv		99
26) Hexane	2.829	57	32018	2.037	ppbv		97
27) Carbon Disulfide	2.153	76	25143	2.084	ppbv	#	62
28) Methyl tert-Butyl Ether	2.444	73	13034	2.044	ppbv	#	90
29) Chloroform	2.852	83	42693	2.089	ppbv		93
30) Cyclohexane	3.858	84	27030	2.075	ppbv		96
31) cis-1,2-Dichloroethene	2.726	61	30737	2.138	ppbv		93
32) 1,1,1-Trichloroethane	3.373	97	42588	2.077	ppbv		99
34) 2-Butanone	2.564	43	46279	2.093	ppbv		100
35) Carbon Tetrachloride	3.768	117	41545	2.029	ppbv		95
36) Benzene	3.661	78	63709	2.086	ppbv		96
37) 1,2-Dichloroethane	3.221	62	31831	2.097	ppbv		97
38) Trichloroethene	4.554	130	27139	2.075	ppbv		95
39) 1,2-Dichloropropane	4.321	63	23145	2.050	ppbv		98
40) 1,4-Dioxane	4.603	88	10426m	2.173	ppbv		
41) Tetrahydrofuran	3.062	42	26391	2.039	ppbv		96
42) Bromodichloromethane	4.496	83	44705	2.074	ppbv		90
43) Methyl Methacrylate	4.894	69	25156m	2.126	ppbv		
44) 2,2,4-Trimethylpentane	4.648	57	109446	2.097	ppbv		100
45) t-1,3-Dichloropropene	6.432	75	28273m	2.085	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042580.D
Acq On : 29 May 2025 11:43
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:17:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	34445	2.027	ppbv		98
47) 1,1,2-Trichloroethane	6.590	97	24455	2.092	ppbv		94
48) Dibromochloromethane	7.396	129	39361	2.103	ppbv		99
49) Bromoform	9.487	173	34270	2.122	ppbv		98
50) 4-Methyl-2-Pentanone	5.771	43	62167	2.018	ppbv		99
51) 2-Hexanone	7.451	43	51074	2.100	ppbv	#	97
52) Tetrachloroethene	8.234	164	24205	2.121	ppbv		95
53) Toluene	6.940	91	74240	2.104	ppbv		99
54) 1,2-Dibromoethane	7.661	107	35750	2.063	ppbv		94
56) 1,1,1,2-Tetrachloroethane	8.933	131	30026	2.101	ppbv		97
57) Chlorobenzene	8.930	112	57617	2.088	ppbv		95
58) Ethyl Benzene	9.361	91	104171	2.161	ppbv		96
59) m/p-Xylene	9.558	91	162694m	4.288	ppbv		
60) o-Xylene	9.969	91	81886	2.164	ppbv		97
61) Styrene	9.879	104	38542	2.154	ppbv		99
62) Isopropylbenzene	10.545	105	120576	2.157	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.969	83	48590	2.020	ppbv		99
64) n-propylbenzene	10.995	120	32406	2.163	ppbv		100
65) tert-Butylbenzene	11.536	119	110380	2.176	ppbv		99
66) Benzyl Chloride	11.620	91	14327	2.190	ppbv		98
67) sec-Butylbenzene	11.772	105	153401	2.151	ppbv		99
69) p-Isopropyltoluene	11.931	119	130647	2.188	ppbv		99
70) n-Butylbenzene	12.287	91	130662	2.216	ppbv		100
71) 2-Chlorotoluene	10.908	91	90725	2.128	ppbv		99
72) 4-Ethyltoluene	11.128	105	103640	2.197	ppbv		98
73) 1,3,5-Trimethylbenzene	11.209	105	83829	2.147	ppbv		100
74) 1,2,4-Trimethylbenzene	11.542	105	94716	2.186	ppbv		98
75) 1,3-Dichlorobenzene	11.610	146	59138	2.174	ppbv		98
76) 1,4-Dichlorobenzene	11.675	146	58920	2.171	ppbv		99
77) 1,2-Dichlorobenzene	11.953	146	58400	2.212	ppbv		96
78) Hexachloro-1,3-Butadiene	13.885	225	49999	2.288	ppbv		98
79) Naphthalene	13.517	128	101451	2.494	ppbv		98
80) Naphthalene,2-methyl-	14.462	142	44376	2.408	ppbv		99
81) 1,2,4-Trichlorobenzene	13.445	180	53653	2.353	ppbv		97

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

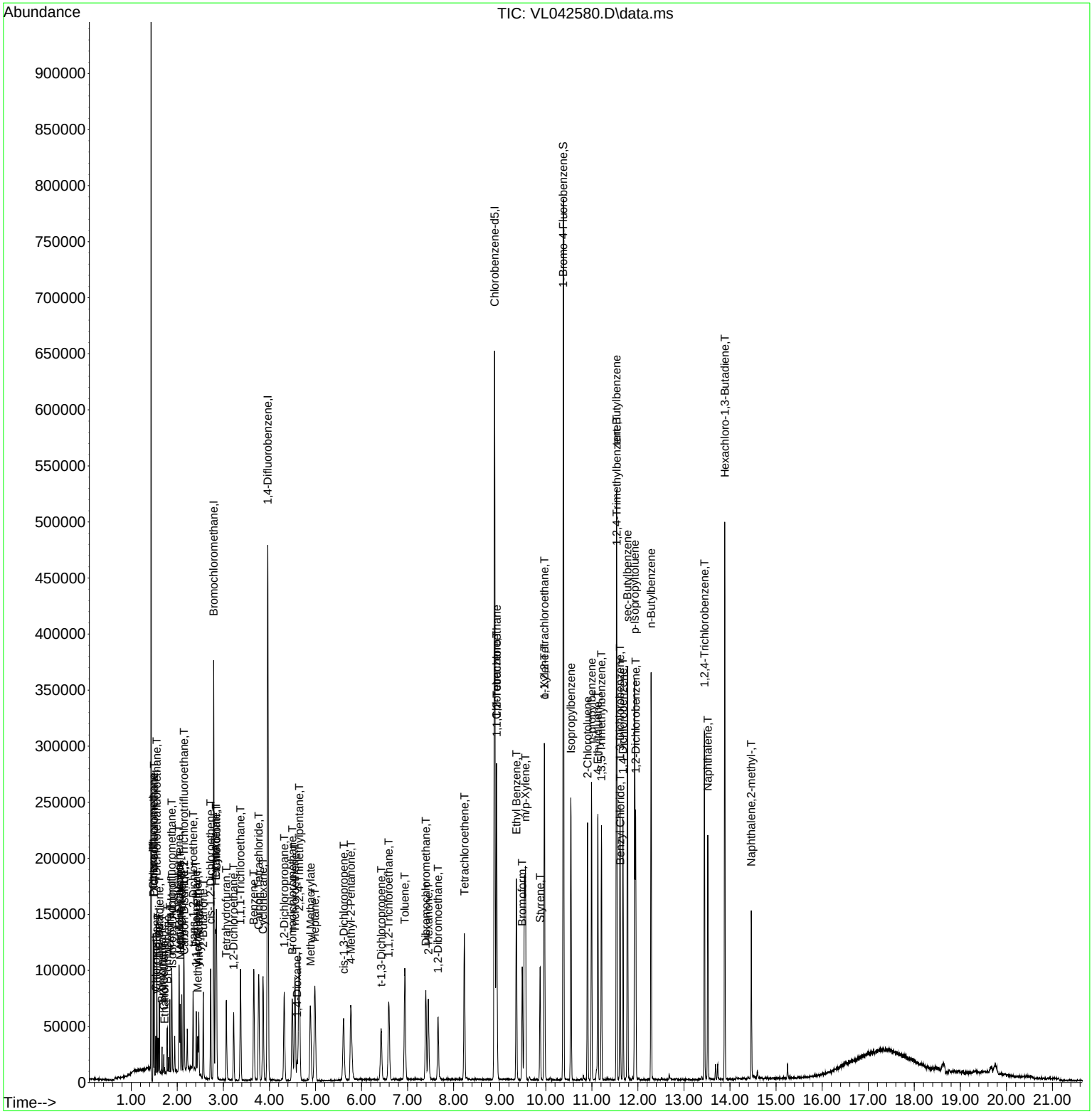
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042580.D
Acq On : 29 May 2025 11:43
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:17:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042581.D
Acq On : 29 May 2025 12:15
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:18:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	101864	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	307159	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	279402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	209886	10.021	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	13779	1.101	ppbv	95
3) Chlorodifluoromethane	1.476	51	18960	1.100	ppbv	99
4) Chloromethane	1.531	50	5387	1.087	ppbv	89
5) Vinyl Chloride	1.580	62	4964	0.983	ppbv	99
6) Bromomethane	1.667	94	2560	1.041	ppbv	99
7) Chloroethane	1.703	64	2164	1.103	ppbv #	84
8) Dichlorotetrafluoroethane	1.554	85	11182	1.072	ppbv	98
9) Propene	1.483	41	7413	1.068	ppbv	97
10) Heptane	4.981	43	21213m	1.083	ppbv	
11) Trichlorofluoromethane	1.878	101	12319	1.058	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	9979	1.091	ppbv	98
13) Ethanol	1.722	45	968	1.249	ppbv #	61
14) Bromoethene	1.780	108	3524	1.024	ppbv #	97
15) Acetone	1.835	43	15114	1.232	ppbv	98
16) 1,3-Butadiene	1.609	39	6483	1.115	ppbv	92
17) tert-Butyl alcohol	2.043	59	13587	1.063	ppbv #	83
18) 1,1-Dichloroethene	2.036	96	4598	1.080	ppbv	85
19) Isopropyl Alcohol	1.887	45	7964	1.086	ppbv #	38
20) Methylene Chloride	2.062	84	4654	1.149	ppbv	98
21) Allyl Chloride	2.094	41	9378	1.083	ppbv #	83
22) trans-1,2-Dichloroethene	2.340	96	5269	1.109	ppbv	98
23) Vinyl Acetate	2.463	43	16945	1.022	ppbv #	96
24) 1,1-Dichloroethane	2.408	63	10651	1.093	ppbv #	98
25) Ethyl Acetate	2.839	43	36518	1.088	ppbv	99
26) Hexane	2.826	57	16686	1.094	ppbv	99
27) Carbon Disulfide	2.149	76	12910	1.102	ppbv #	22
28) Methyl tert-Butyl Ether	2.441	73	7064	1.141	ppbv	93
29) Chloroform	2.849	83	21594	1.088	ppbv	100
30) Cyclohexane	3.858	84	13889	1.098	ppbv	96
31) cis-1,2-Dichloroethene	2.722	61	14880	1.066	ppbv	89
32) 1,1,1-Trichloroethane	3.370	97	20811	1.045	ppbv	97
34) 2-Butanone	2.560	43	23148	1.057	ppbv	99
35) Carbon Tetrachloride	3.765	117	21013	1.036	ppbv	89
36) Benzene	3.658	78	32310	1.068	ppbv	99
37) 1,2-Dichloroethane	3.218	62	15623	1.039	ppbv	97
38) Trichloroethene	4.551	130	13969	1.078	ppbv	98
39) 1,2-Dichloropropane	4.321	63	11488	1.027	ppbv	87
40) 1,4-Dioxane	4.600	88	5479m	1.153	ppbv	
41) Tetrahydrofuran	3.062	42	13711	1.069	ppbv	99
42) Bromodichloromethane	4.490	83	22628	1.060	ppbv #	96
43) Methyl Methacrylate	4.884	69	11810	1.007	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	56202m	1.087	ppbv	
45) t-1,3-Dichloropropene	6.415	75	13988m	1.041	ppbv	

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042581.D
Acq On : 29 May 2025 12:15
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:18:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	17453m	1.037	ppbv		
47) 1,1,2-Trichloroethane	6.587	97	12328m	1.065	ppbv		
48) Dibromochloromethane	7.393	129	19719	1.064	ppbv		99
49) Bromoform	9.484	173	15937	0.996	ppbv		96
50) 4-Methyl-2-Pentanone	5.765	43	31646	1.037	ppbv		99
51) 2-Hexanone	7.445	43	25135	1.043	ppbv	#	96
52) Tetrachloroethene	8.228	164	11770	1.041	ppbv		97
53) Toluene	6.936	91	36540	1.045	ppbv		97
54) 1,2-Dibromoethane	7.658	107	18114	1.055	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.927	131	14971	1.066	ppbv		95
57) Chlorobenzene	8.927	112	28714	1.058	ppbv		100
58) Ethyl Benzene	9.357	91	49899	1.053	ppbv		96
59) m/p-Xylene	9.535	91	78893m	2.115	ppbv		
60) o-Xylene	9.966	91	39398	1.059	ppbv		99
61) Styrene	9.875	104	18371	1.045	ppbv		100
62) Isopropylbenzene	10.542	105	59492	1.083	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	24057	1.017	ppbv		99
64) n-propylbenzene	10.992	120	15107	1.026	ppbv		90
65) tert-Butylbenzene	11.532	119	53720	1.077	ppbv		99
66) Benzyl Chloride	11.617	91	6617	1.029	ppbv		98
67) sec-Butylbenzene	11.769	105	76631	1.093	ppbv		100
69) p-Isopropyltoluene	11.927	119	62849	1.070	ppbv		100
70) n-Butylbenzene	12.283	91	63350	1.093	ppbv		99
71) 2-Chlorotoluene	10.901	91	45250	1.080	ppbv		99
72) 4-Ethyltoluene	11.128	105	50214	1.083	ppbv		99
73) 1,3,5-Trimethylbenzene	11.206	105	41412	1.079	ppbv		100
74) 1,2,4-Trimethylbenzene	11.536	105	46810	1.099	ppbv	#	90
75) 1,3-Dichlorobenzene	11.610	146	28889	1.080	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	29060	1.089	ppbv		98
77) 1,2-Dichlorobenzene	11.950	146	28176	1.085	ppbv		97
78) Hexachloro-1,3-Butadiene	13.882	225	24950	1.162	ppbv		98
79) Naphthalene	13.517	128	45649	1.141	ppbv	#	94
80) Naphthalene,2-methyl-	14.458	142	15700	0.866	ppbv		96
81) 1,2,4-Trichlorobenzene	13.442	180	24843	1.108	ppbv		97

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

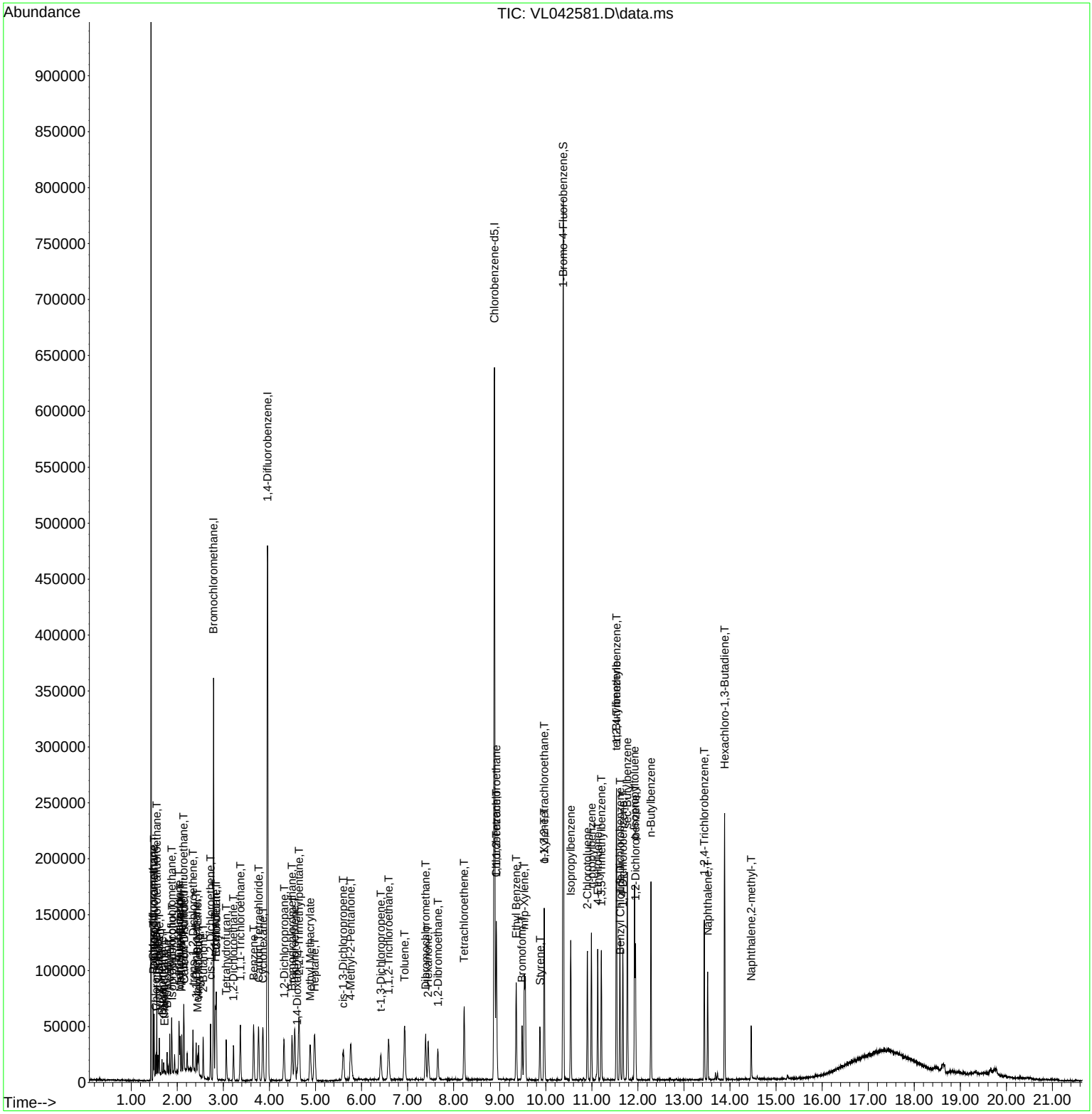
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042581.D
Acq On : 29 May 2025 12:15
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:18:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042582.D
Acq On : 29 May 2025 12:47
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:19:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	102909	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	304613	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	276104	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	208325	10.065	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	6470	0.512	ppbv		98
3) Chlorodifluoromethane	1.476	51	9678	0.556	ppbv		96
4) Chloromethane	1.531	50	2584	0.516	ppbv		97
5) Vinyl Chloride	1.580	62	2721	0.533	ppbv		96
6) Bromomethane	1.667	94	1594	0.642	ppbv	#	74
7) Chloroethane	1.706	64	1099	0.554	ppbv		90
8) Dichlorotetrafluoroethane	1.554	85	5655	0.537	ppbv		97
9) Propene	1.483	41	3653	0.521	ppbv		87
10) Heptane	4.988	43	10697	0.540	ppbv		98
11) Trichlorofluoromethane	1.878	101	6138	0.522	ppbv		91
12) 1,1,2-Trichlorotrifluo...	2.140	101	4647	0.503	ppbv		89
13) Ethanol	1.722	45	586m	0.748	ppbv		
14) Bromoethene	1.781	108	1849	0.532	ppbv	#	84
15) Acetone	1.836	43	7225	0.583	ppbv		95
16) 1,3-Butadiene	1.609	39	3340	0.569	ppbv		89
17) tert-Butyl alcohol	2.046	59	6877	0.533	ppbv	#	92
18) 1,1-Dichloroethene	2.036	96	2319	0.539	ppbv	#	73
19) Isopropyl Alcohol	1.887	45	4245	0.573	ppbv	#	44
20) Methylene Chloride	2.062	84	2435	0.595	ppbv		93
21) Allyl Chloride	2.098	41	4754	0.544	ppbv		96
22) trans-1,2-Dichloroethene	2.341	96	2553	0.532	ppbv		93
23) Vinyl Acetate	2.464	43	9005	0.537	ppbv	#	86
24) 1,1-Dichloroethane	2.409	63	5127	0.521	ppbv	#	89
25) Ethyl Acetate	2.842	43	17990	0.530	ppbv		98
26) Hexane	2.826	57	8694	0.564	ppbv		96
27) Carbon Disulfide	2.153	76	6043	0.511	ppbv	#	1
28) Methyl tert-Butyl Ether	2.441	73	3416	0.546	ppbv	#	81
29) Chloroform	2.849	83	10798	0.539	ppbv		98
30) Cyclohexane	3.855	84	6784m	0.531	ppbv		
31) cis-1,2-Dichloroethene	2.722	61	7302	0.518	ppbv		97
32) 1,1,1-Trichloroethane	3.367	97	10309	0.513	ppbv		98
34) 2-Butanone	2.564	43	11569	0.533	ppbv		99
35) Carbon Tetrachloride	3.761	117	10126	0.503	ppbv		92
36) Benzene	3.661	78	16000	0.533	ppbv		95
37) 1,2-Dichloroethane	3.224	62	7883	0.529	ppbv		98
38) Trichloroethene	4.554	130	7126	0.555	ppbv		92
39) 1,2-Dichloropropane	4.318	63	6317m	0.570	ppbv		
40) 1,4-Dioxane	4.609	88	2618m	0.555	ppbv		
41) Tetrahydrofuran	3.066	42	6775	0.533	ppbv		96
42) Bromodichloromethane	4.490	83	10688	0.505	ppbv		94
43) Methyl Methacrylate	4.888	69	6056	0.521	ppbv		96
44) 2,2,4-Trimethylpentane	4.645	57	27584	0.538	ppbv		96
45) t-1,3-Dichloropropene	6.422	75	6598	0.495	ppbv		92

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042582.D
Acq On : 29 May 2025 12:47
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:19:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	8637m	0.518	ppbv		
47) 1,1,2-Trichloroethane	6.584	97	6189m	0.539	ppbv		
48) Dibromochloromethane	7.399	129	9133m	0.497	ppbv		
49) Bromoform	9.484	173	7974	0.503	ppbv		98
50) 4-Methyl-2-Pentanone	5.771	43	15782m	0.522	ppbv		
51) 2-Hexanone	7.451	43	11458	0.479	ppbv	#	98
52) Tetrachloroethene	8.231	164	5950	0.531	ppbv		87
53) Toluene	6.940	91	18429	0.532	ppbv		100
54) 1,2-Dibromoethane	7.655	107	8810	0.518	ppbv		82
56) 1,1,1,2-Tetrachloroethane	8.934	131	7178	0.517	ppbv		89
57) Chlorobenzene	8.930	112	14920	0.557	ppbv		89
58) Ethyl Benzene	9.358	91	24442	0.522	ppbv		88
59) m/p-Xylene	9.555	91	38955m	1.057	ppbv		
60) o-Xylene	9.966	91	19745	0.537	ppbv		99
61) Styrene	9.875	104	8639	0.497	ppbv		99
62) Isopropylbenzene	10.545	105	28442	0.524	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.969	83	12137	0.519	ppbv		97
64) n-propylbenzene	10.995	120	7993	0.549	ppbv		97
65) tert-Butylbenzene	11.533	119	26856	0.545	ppbv		99
66) Benzyl Chloride	11.614	91	2753m	0.433	ppbv		
67) sec-Butylbenzene	11.769	105	37899	0.547	ppbv		98
69) p-Isopropyltoluene	11.931	119	30931	0.533	ppbv		99
70) n-Butylbenzene	12.284	91	29130	0.509	ppbv		98
71) 2-Chlorotoluene	10.905	91	22135	0.534	ppbv		100
72) 4-Ethyltoluene	11.128	105	23521	0.513	ppbv		97
73) 1,3,5-Trimethylbenzene	11.206	105	19891	0.524	ppbv		86
74) 1,2,4-Trimethylbenzene	11.536	105	22635	0.538	ppbv	#	83
75) 1,3-Dichlorobenzene	11.610	146	14232	0.538	ppbv		98
76) 1,4-Dichlorobenzene	11.675	146	13773	0.522	ppbv		98
77) 1,2-Dichlorobenzene	11.950	146	14062	0.548	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	12036	0.567	ppbv		97
79) Naphthalene	13.517	128	18853	0.477	ppbv		96
80) Naphthalene,2-methyl-	14.462	142	6126	0.342	ppbv		98
81) 1,2,4-Trichlorobenzene	13.442	180	9879	0.446	ppbv		99

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

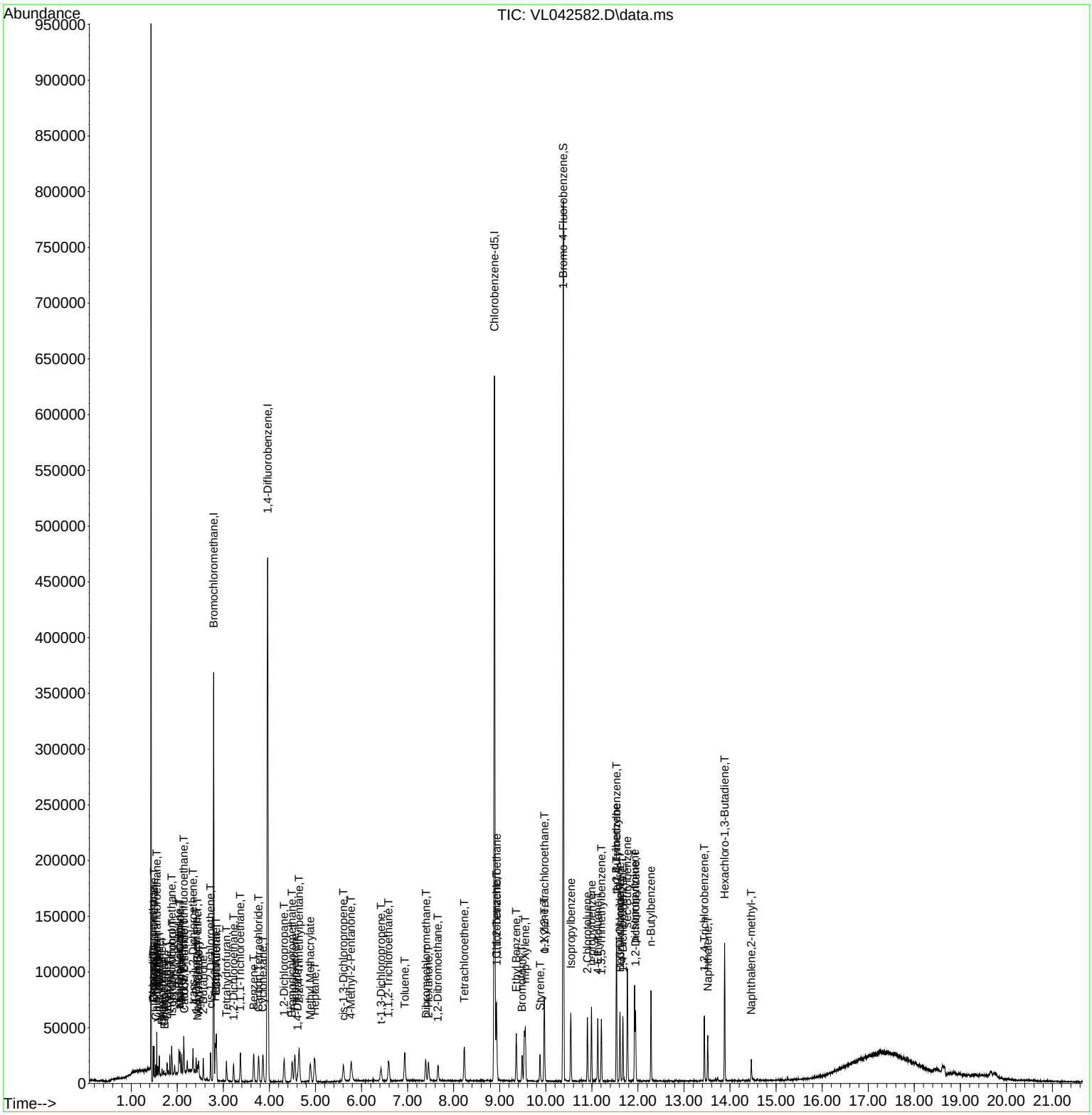
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042582.D
Acq On : 29 May 2025 12:47
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:19:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042583.D
Acq On : 29 May 2025 13:19
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:35:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	103370	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	302218	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	205672	10.018	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.200%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	481	0.094	ppbv #	31
32) 1,1,1-Trichloroethane	3.373	97	2153	0.107	ppbv	90
35) Carbon Tetrachloride	3.768	117	2135	0.107	ppbv #	76
38) Trichloroethene	4.548	130	1305m	0.102	ppbv	
52) Tetrachloroethene	8.238	164	1230m	0.111	ppbv	
54) 1,2-Dibromoethane	7.658	107	1737m	0.103	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	2267	0.098	ppbv	96
79) Naphthalene	13.523	128	2980m	0.076	ppbv	

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

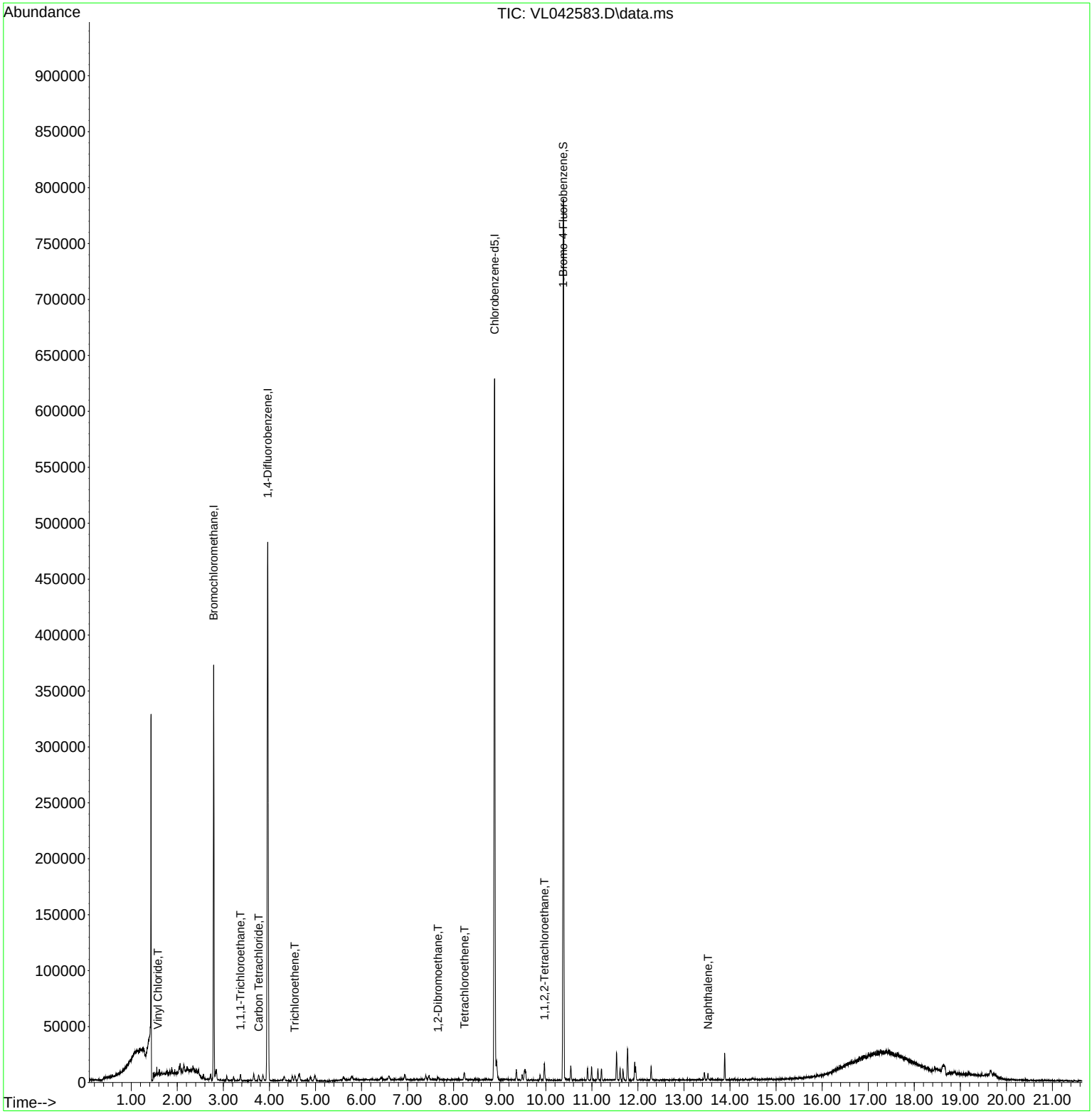
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042583.D
Acq On : 29 May 2025 13:19
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:35:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042584.D
Acq On : 29 May 2025 13:51
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	103144	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	305114	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	205981	10.033	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.577	62	209	0.041	ppbv	# 77
32) 1,1,1-Trichloroethane	3.373	97	683m	0.034	ppbv	
35) Carbon Tetrachloride	3.764	117	623m	0.031	ppbv	
38) Trichloroethene	4.541	130	356m	0.028	ppbv	
52) Tetrachloroethene	8.228	164	321m	0.029	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	866	0.037	ppbv	# 82

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

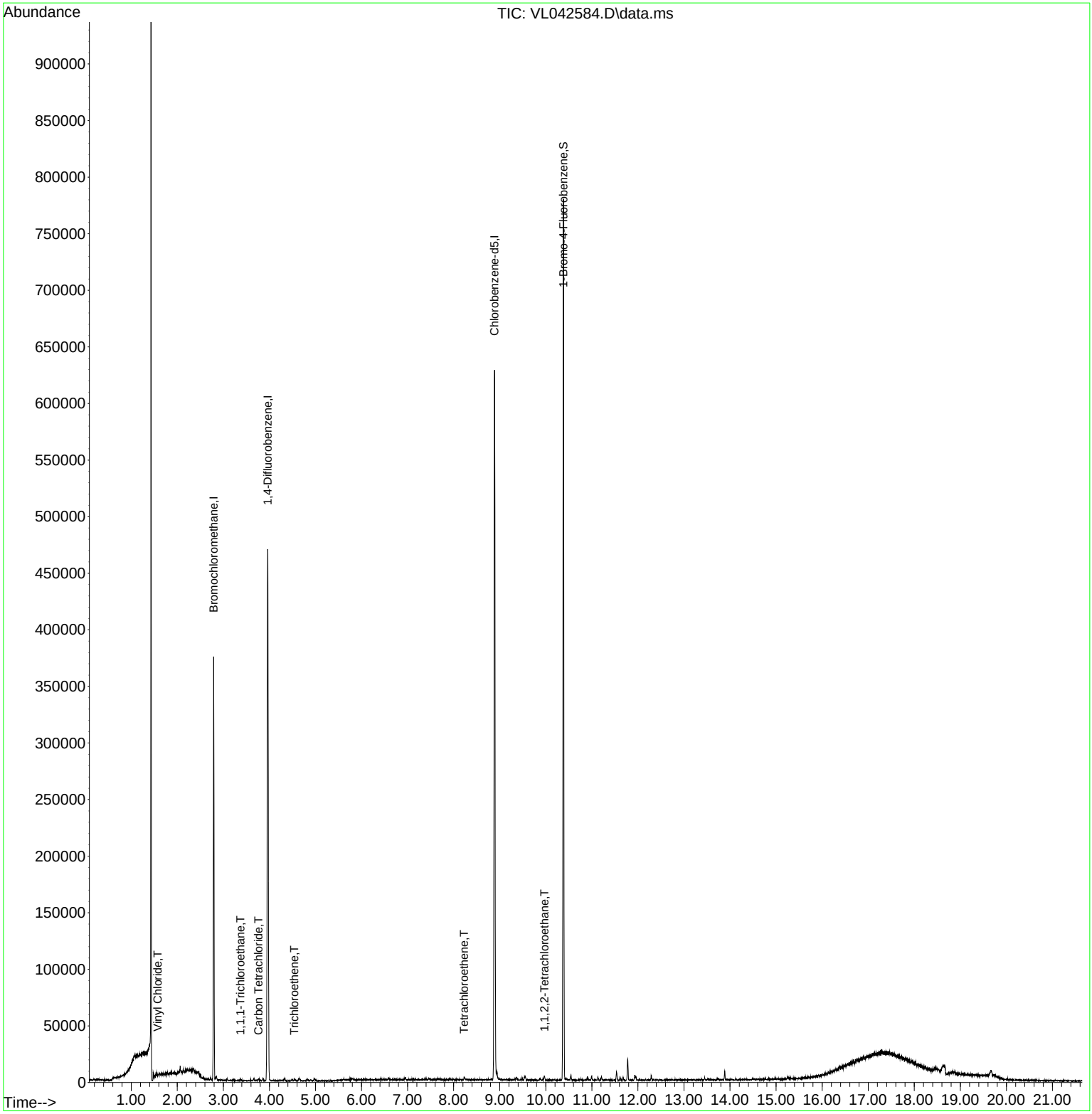
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042584.D
Acq On : 29 May 2025 13:51
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042585.D
Acq On : 29 May 2025 14:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:21:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	103906	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	301797	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	274912	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	207170	10.053	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	171529	13.432	ppbv	98
3) Chlorodifluoromethane	1.476	51	221334	12.584	ppbv	99
4) Chloromethane	1.534	50	67662	13.380	ppbv	99
5) Vinyl Chloride	1.580	62	63738	12.373	ppbv	98
6) Bromomethane	1.667	94	31141	12.420	ppbv	100
7) Chloroethane	1.706	64	25591	12.785	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	140345	13.189	ppbv	99
9) Propene	1.483	41	93357	13.181	ppbv	97
10) Heptane	4.988	43	263111	13.165	ppbv	100
11) Trichlorofluoromethane	1.877	101	162591	13.684	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	127489	13.664	ppbv	99
13) Ethanol	1.722	45	7390m	9.346	ppbv	
14) Bromoethene	1.784	108	47382	13.501	ppbv	99
15) Acetone	1.835	43	141460	11.302	ppbv	98
16) 1,3-Butadiene	1.609	39	74743	12.607	ppbv	100
17) tert-Butyl alcohol	2.042	59	169533	13.002	ppbv	100
18) 1,1-Dichloroethene	2.036	96	56808	13.085	ppbv	99
19) Isopropyl Alcohol	1.887	45	92408	12.351	ppbv	98
20) Methylene Chloride	2.062	84	48862	11.830	ppbv	97
21) Allyl Chloride	2.097	41	116771	13.223	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	65132	13.441	ppbv	97
23) Vinyl Acetate	2.466	43	246907	14.594	ppbv	99
24) 1,1-Dichloroethane	2.411	63	129870	13.067	ppbv	99
25) Ethyl Acetate	2.839	43	457327	13.352	ppbv	99
26) Hexane	2.829	57	200386	12.876	ppbv	99
27) Carbon Disulfide	2.152	76	162143	13.571	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	79625	12.608	ppbv	100
29) Chloroform	2.852	83	269752	13.328	ppbv	98
30) Cyclohexane	3.861	84	170261	13.196	ppbv	99
31) cis-1,2-Dichloroethene	2.722	61	192562	13.526	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	276026	13.591	ppbv	99
34) 2-Butanone	2.560	43	294628	13.689	ppbv	99
35) Carbon Tetrachloride	3.768	117	277042	13.903	ppbv	98
36) Benzene	3.661	78	404641	13.615	ppbv	99
37) 1,2-Dichloroethane	3.221	62	208081	14.088	ppbv	100
38) Trichloroethene	4.551	130	168824	13.263	ppbv	91
39) 1,2-Dichloropropane	4.318	63	149476	13.606	ppbv	98
40) 1,4-Dioxane	4.590	88	65543	14.035	ppbv #	98
41) Tetrahydrofuran	3.056	42	173023	13.734	ppbv	99
42) Bromodichloromethane	4.493	83	298835	14.245	ppbv	96
43) Methyl Methacrylate	4.887	69	161641	14.033	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	676574	13.319	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	189257	14.338	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042585.D
Acq On : 29 May 2025 14:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:21:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	236653	14.313	ppbv	94
47) 1,1,2-Trichloroethane	6.590	97	153862	13.524	ppbv	93
48) Dibromochloromethane	7.393	129	258374	14.187	ppbv	100
49) Bromoform	9.490	173	226719	14.427	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	416119	13.882	ppbv	100
51) 2-Hexanone	7.441	43	339220	14.328	ppbv	98
52) Tetrachloroethene	8.231	164	145485	13.098	ppbv	99
53) Toluene	6.939	91	470632	13.702	ppbv	100
54) 1,2-Dibromoethane	7.661	107	232051	13.758	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	191145	13.828	ppbv	99
57) Chlorobenzene	8.930	112	356655	13.361	ppbv	98
58) Ethyl Benzene	9.361	91	637083	13.662	ppbv	99
59) m/p-Xylene	9.561	91	996602m	27.151	ppbv	
60) o-Xylene	9.969	91	490036	13.389	ppbv	98
61) Styrene	9.875	104	245714	14.199	ppbv	100
62) Isopropylbenzene	10.545	105	722166	13.356	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	299633	12.875	ppbv	99
64) n-propylbenzene	10.995	120	195952	13.519	ppbv	97
65) tert-Butylbenzene	11.536	119	634159	12.924	ppbv	99
66) Benzyl Chloride	11.620	91	90617	14.320	ppbv	99
67) sec-Butylbenzene	11.772	105	892638	12.939	ppbv	100
69) p-Isopropyltoluene	11.930	119	763150	13.210	ppbv	100
70) n-Butylbenzene	12.286	91	764173	13.401	ppbv	99
71) 2-Chlorotoluene	10.908	91	552265	13.390	ppbv	100
72) 4-Ethyltoluene	11.131	105	616187	13.504	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	509801	13.498	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	538704	12.854	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	347478	13.203	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	350757	13.363	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	326960	12.800	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	244375	11.563	ppbv	98
79) Naphthalene	13.516	128	563437	14.318	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	306586	17.196	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	299869	13.598	ppbv	99

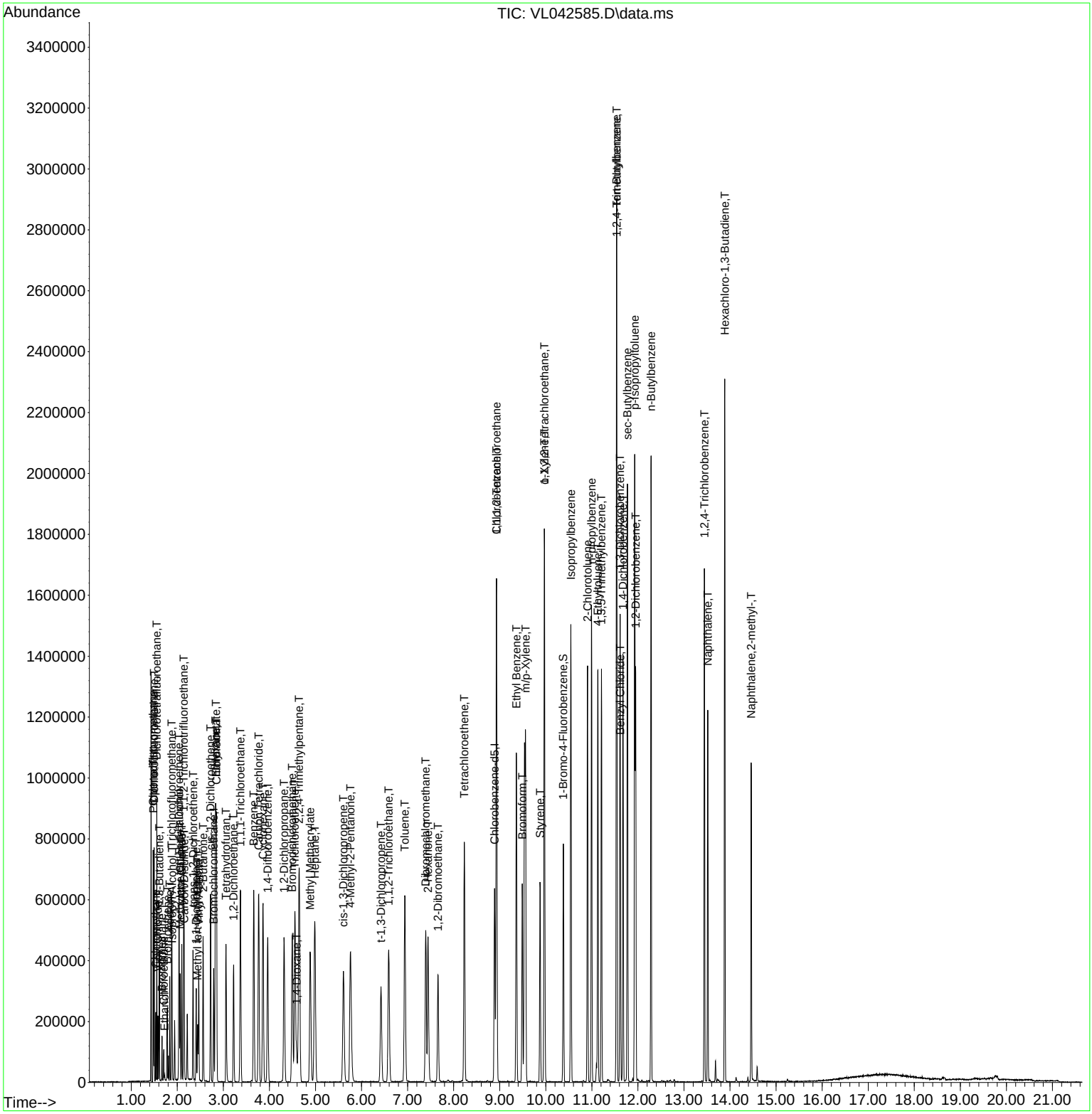
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042585.D
Acq On : 29 May 2025 14:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:21:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	102428	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	301054	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	275875	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	203743	9.852	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	115266	9.156	ppbv	97
3) Chlorodifluoromethane	1.476	51	150107	8.658	ppbv	99
4) Chloromethane	1.534	50	45964	9.220	ppbv	99
5) Vinyl Chloride	1.583	62	43925	8.650	ppbv	98
6) Bromomethane	1.670	94	20899	8.455	ppbv	96
7) Chloroethane	1.706	64	16853	8.541	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	97812	9.325	ppbv	98
9) Propene	1.486	41	60663	8.688	ppbv	98
10) Heptane	4.991	43	179146	9.102	ppbv	99
11) Trichlorofluoromethane	1.881	101	111088	9.484	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	90493	9.839	ppbv	98
13) Ethanol	1.722	45	5315m	6.387	ppbv	
14) Bromoethene	1.783	108	31882	9.215	ppbv	97
15) Acetone	1.838	43	93713	7.596	ppbv	99
16) 1,3-Butadiene	1.612	39	51473	8.807	ppbv	98
17) tert-Butyl alcohol	2.042	59	123536	9.611	ppbv	99
18) 1,1-Dichloroethene	2.036	96	40171	9.423	ppbv	94
19) Isopropyl Alcohol	1.887	45	65635	8.899	ppbv	99
20) Methylene Chloride	2.065	84	34380	8.444	ppbv	98
21) Allyl Chloride	2.097	41	80936	9.297	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	46389	9.742	ppbv	99
23) Vinyl Acetate	2.466	43	168496	10.103	ppbv	99
24) 1,1-Dichloroethane	2.411	63	92180	9.408	ppbv	99
25) Ethyl Acetate	2.839	43	309666	9.171	ppbv	99
26) Hexane	2.829	57	136378	8.889	ppbv	99
27) Carbon Disulfide	2.152	76	114756	9.743	ppbv #	92
28) Methyl tert-Butyl Ether	2.444	73	57913	9.302	ppbv	100
29) Chloroform	2.852	83	180696	9.057	ppbv	96
30) Cyclohexane	3.861	84	116986	9.198	ppbv	97
31) cis-1,2-Dichloroethene	2.725	61	130619	9.307	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	185017	9.077	ppbv	100
34) 2-Butanone	2.560	43	198226	9.233	ppbv	100
35) Carbon Tetrachloride	3.771	117	186286	9.374	ppbv	100
36) Benzene	3.664	78	274314	9.253	ppbv	99
37) 1,2-Dichloroethane	3.224	62	140785	9.555	ppbv	99
38) Trichloroethene	4.557	130	115086	9.133	ppbv	96
39) 1,2-Dichloropropane	4.324	63	98542	8.988	ppbv	99
40) 1,4-Dioxane	4.590	88	45655	9.306	ppbv #	99
41) Tetrahydrofuran	3.059	42	116984	9.309	ppbv	98
42) Bromodichloromethane	4.496	83	202489	9.676	ppbv	92
43) Methyl Methacrylate	4.891	69	108397	9.421	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	461095	9.093	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	125588m	9.538	ppbv	

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	156828	9.505	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	103138	9.088	ppbv	92
48) Dibromochloromethane	7.399	129	170606	9.391	ppbv	99
49) Bromoform	9.493	173	152725	9.742	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	278990	9.369	ppbv	100
51) 2-Hexanone	7.444	43	228036	9.655	ppbv	98
52) Tetrachloroethene	8.231	164	98872	8.925	ppbv	99
53) Toluene	6.943	91	319640	9.329	ppbv	99
54) 1,2-Dibromoethane	7.661	107	157298	9.364	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	127601	9.199	ppbv	97
57) Chlorobenzene	8.930	112	242533	9.054	ppbv	97
58) Ethyl Benzene	9.364	91	432250	9.237	ppbv	97
59) m/p-Xylene	9.558	91	676743m	18.377	ppbv	
60) o-Xylene	9.972	91	333107	9.069	ppbv	100
61) Styrene	9.878	104	163167	9.396	ppbv	100
62) Isopropylbenzene	10.545	105	491107	9.051	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	204322	8.749	ppbv	100
64) n-propylbenzene	10.995	120	131695	9.054	ppbv	100
65) tert-Butylbenzene	11.539	119	431251	8.758	ppbv	98
66) Benzyl Chloride	11.620	91	59801	9.435	ppbv	100
67) sec-Butylbenzene	11.772	105	607905	8.781	ppbv	99
69) p-Isopropyltoluene	11.930	119	512739	8.844	ppbv	100
70) n-Butylbenzene	12.286	91	514931	8.998	ppbv	100
71) 2-Chlorotoluene	10.908	91	377413	9.119	ppbv	99
72) 4-Ethyltoluene	11.131	105	412686	9.012	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	346043	9.131	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	371879	8.842	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	234703	8.886	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	237978	9.034	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	224400	8.754	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	169185	7.977	ppbv	99
79) Naphthalene	13.516	128	383192	9.666	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	194375	10.853	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	198696	8.978	ppbv	98

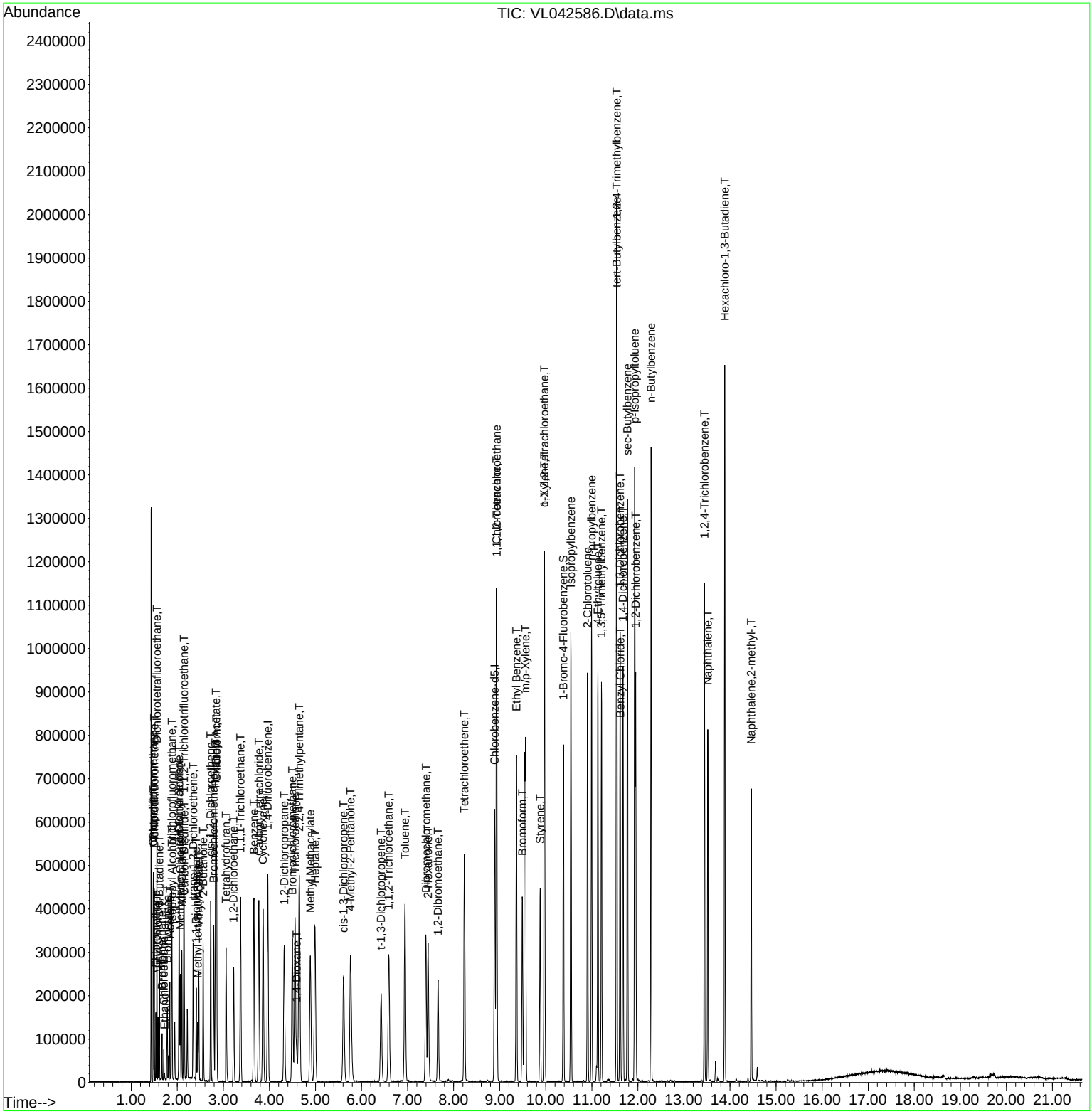
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 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	100	0.00
2	T	Dichlorodifluoromethane	1.229	1.125	8.5	99	0.00
3		Chlorodifluoromethane	1.693	1.465	13.5	99	0.00
4		Chloromethane	0.487	0.449	7.8	97	0.00
5	T	Vinyl Chloride	0.496	0.429	13.5	98	0.00
6	T	Bromomethane	0.241	0.204	15.4	94	0.00
7		Chloroethane	0.193	0.165	14.5	94	0.00
8	T	Dichlorotetrafluoroethane	1.024	0.955	6.7	100	0.00
9	T	Propene	0.682	0.592	13.2	91	0.00
10	T	Heptane	1.921	1.749	9.0	98	0.00
11	T	Trichlorofluoromethane	1.144	1.085	5.2	101	0.00
12	T	1,1,2-Trichlorotrifluoroeth	0.898	0.883	1.7	105	0.00
13		Ethanol	0.081	0.052	35.8#	89	0.00
14	T	Bromoethene	0.338	0.311	8.0	98	0.00
15	T	Acetone	1.205	0.915	24.1	98	0.00
16	T	1,3-Butadiene	0.571	0.503	11.9	102	0.00
17		tert-Butyl alcohol	1.255	1.206	3.9	97	0.00
18	T	1,1-Dichloroethene	0.416	0.392	5.8	104	0.00
19	T	Isopropyl Alcohol	0.720	0.641	11.0	97	0.00
20	T	Methylene Chloride	0.398	0.336	15.6	102	0.00
21	T	Allyl Chloride	0.850	0.790	7.1	100	0.00
22	T	trans-1,2-Dichloroethene	0.465	0.453	2.6	106	0.00
23	T	Vinyl Acetate	1.628	1.645	-1.0	112	0.00
24	T	1,1-Dichloroethane	0.957	0.900	6.0	99	0.00
25	T	Ethyl Acetate	3.296	3.023	8.3	99	0.00
26	T	Hexane	1.498	1.331	11.1	98	0.00
27	T	Carbon Disulfide	1.150	1.120	2.6	104	0.00
28	T	Methyl tert-Butyl Ether	0.608	0.565	7.1	102	0.00
29	T	Chloroform	1.948	1.764	9.4	100	0.00
30	T	Cyclohexane	1.242	1.142	8.1	99	0.00
31	T	cis-1,2-Dichloroethene	1.370	1.275	6.9	100	0.00
32	T	1,1,1-Trichloroethane	1.990	1.806	9.2	100	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
34	T	2-Butanone	0.713	0.658	7.7	98	0.00
35	T	Carbon Tetrachloride	0.660	0.619	6.2	100	0.00
36	T	Benzene	0.985	0.911	7.5	99	0.00
37	T	1,2-Dichloroethane	0.489	0.468	4.3	102	0.00
38	T	Trichloroethene	0.419	0.382	8.8	99	0.00
39	T	1,2-Dichloropropane	0.364	0.327	10.2	97	0.00
40	T	1,4-Dioxane	0.163	0.152	6.7	98	0.00
41	T	Tetrahydrofuran	0.417	0.389	6.7	98	0.00
42	T	Bromodichloromethane	0.695	0.673	3.2	100	0.00
43		Methyl Methacrylate	0.382	0.360	5.8	96	0.00
44	T	2,2,4-Trimethylpentane	1.684	1.532	9.0	98	0.00
45	T	t-1,3-Dichloropropene	0.437	0.417	4.6	96	0.00
46	T	cis-1,3-Dichloropropene	0.548	0.521	4.9	97	0.00
47	T	1,1,2-Trichloroethane	0.377	0.343	9.0	98	0.00
48	T	Dibromochloromethane	0.603	0.567	6.0	97	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 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	0.521	0.507	2.7	98	0.00
50	T	4-Methyl-2-Pentanone	0.989	0.927	6.3	95	0.00
51	T	2-Hexanone	0.784	0.757	3.4	95	0.00
52	T	Tetrachloroethene	0.368	0.328	10.9	97	0.00
53	T	Toluene	1.138	1.062	6.7	98	0.00
54	T	1,2-Dibromoethane	0.558	0.522	6.5	99	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
56		1,1,1,2-Tetrachloroethane	0.503	0.463	8.0	96	0.00
57	T	Chlorobenzene	0.971	0.879	9.5	98	0.00
58	T	Ethyl Benzene	1.696	1.567	7.6	98	0.00
59	T	m/p-Xylene	1.335	1.227	8.1	98	0.02
60	T	o-Xylene	1.331	1.207	9.3	98	0.00
61	T	Styrene	0.629	0.591	6.0	97	0.00
62		Isopropylbenzene	1.967	1.780	9.5	97	0.00
63	T	1,1,2,2-Tetrachloroethane	0.847	0.741	12.5	99	0.00
64		n-propylbenzene	0.527	0.477	9.5	98	0.00
65		tert-Butylbenzene	1.785	1.563	12.4	96	0.00
66	T	Benzyl Chloride	0.230	0.217	5.7	87	0.00
67		sec-Butylbenzene	2.509	2.204	12.2	97	0.00
68	S	1-Bromo-4-Fluorobenzene	0.750	0.739	1.5	96	0.00
69		p-Isopropyltoluene	2.101	1.859	11.5	96	0.00
70		n-Butylbenzene	2.074	1.867	10.0	98	0.00
71		2-Chlorotoluene	1.500	1.368	8.8	98	0.00
72	T	4-Ethyltoluene	1.660	1.496	9.9	98	0.00
73	T	1,3,5-Trimethylbenzene	1.374	1.254	8.7	98	0.00
74	T	1,2,4-Trimethylbenzene	1.524	1.348	11.5	97	0.00
75	T	1,3-Dichlorobenzene	0.957	0.851	11.1	98	0.00
76	T	1,4-Dichlorobenzene	0.955	0.863	9.6	98	0.00
77	T	1,2-Dichlorobenzene	0.929	0.813	12.5	98	0.00
78	T	Hexachloro-1,3-Butadiene	0.769	0.613	20.3	98	0.00
79	T	Naphthalene	1.437	1.389	3.3	97	0.00
80	T	Naphthalene,2-methyl-	0.649	0.705	-8.6	95	0.00
81	T	1,2,4-Trichlorobenzene	0.802	0.720	10.2	95	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\VL052925\
Data File : VL042588.D
Acq On : 29 May 2025 16:50
Operator : SY/MD
Sample : VL0529ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0529ABL02

Quant Time: May 30 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

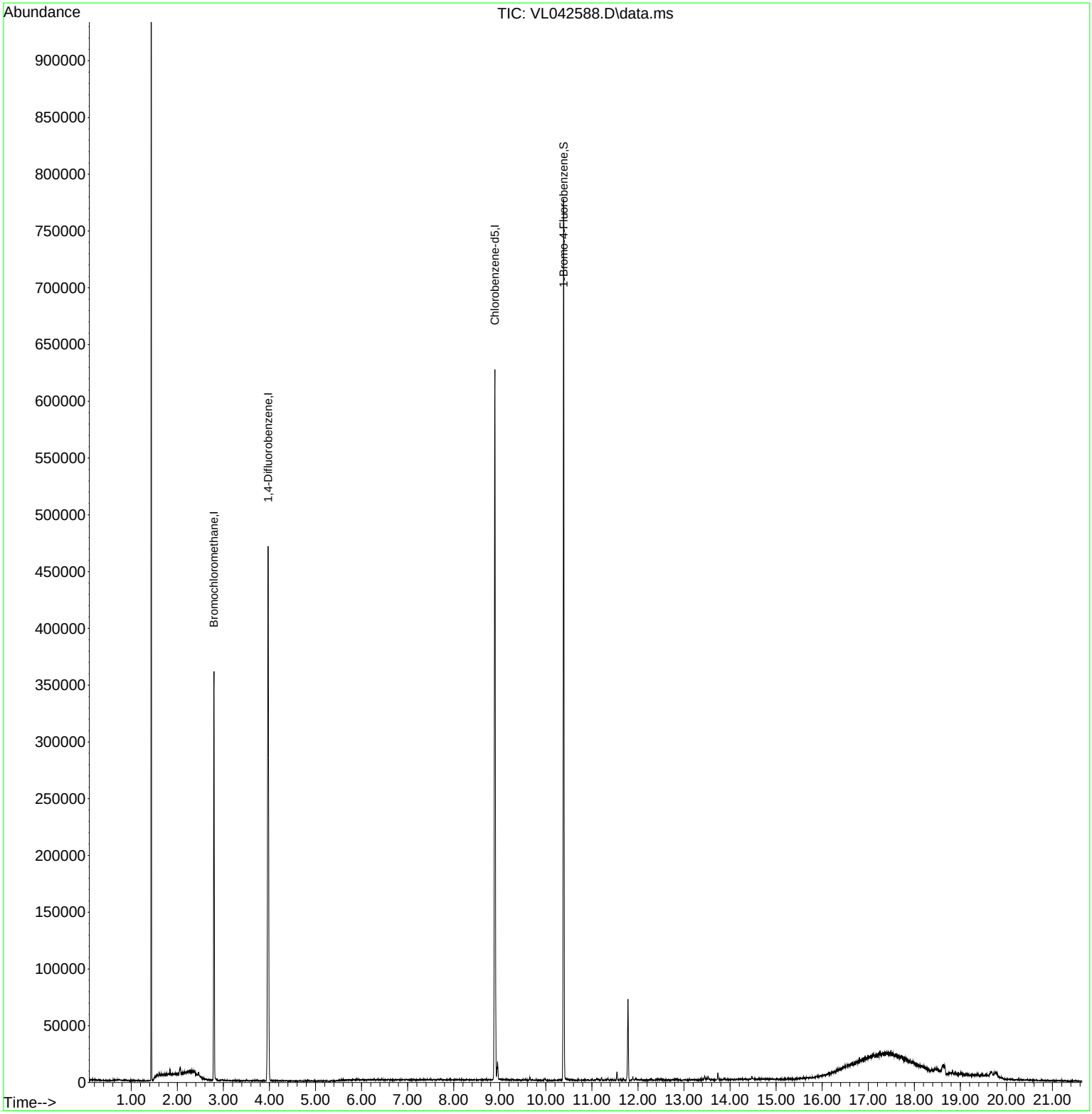
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	102651	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	295997	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	264969	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	199114	10.025	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.200%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042588.D
Acq On : 29 May 2025 16:50
Operator : SY/MD
Sample : VL0529ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0529ABL02

Quant Time: May 30 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042591.D
Acq On : 29 May 2025 18:27
Operator : SY/MD
Sample : VL0529ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 02:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0529ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	106381	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	304509	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	271830	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	207449	10.181	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	119309	9.125	ppbv	96
3) Chlorodifluoromethane	1.479	51	153681	8.535	ppbv	100
4) Chloromethane	1.538	50	46128	8.909	ppbv	100
5) Vinyl Chloride	1.583	62	43153	8.182	ppbv	99
6) Bromomethane	1.670	94	21392	8.333	ppbv	96
7) Chloroethane	1.709	64	17848	8.709	ppbv	90
8) Dichlorotetrafluoroethane	1.557	85	96521	8.860	ppbv	98
9) Propene	1.486	41	62215	8.579	ppbv	99
10) Heptane	4.991	43	178704	8.743	ppbv	100
11) Trichlorofluoromethane	1.881	101	118918	9.775	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.146	101	92153	9.647	ppbv	97
13) Ethanol	1.725	45	4884	5.651	ppbv	97
14) Bromoethene	1.787	108	32689	9.098	ppbv	98
15) Acetone	1.839	43	96944	7.565	ppbv	97
16) 1,3-Butadiene	1.612	39	51200	8.435	ppbv	96
17) tert-Butyl alcohol	2.046	59	124231	9.306	ppbv	99
18) 1,1-Dichloroethene	2.039	96	41243	9.315	ppbv	97
19) Isopropyl Alcohol	1.890	45	66825	8.724	ppbv	99
20) Methylene Chloride	2.065	84	34577	8.177	ppbv	97
21) Allyl Chloride	2.101	41	83677	9.255	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	46918	9.487	ppbv	96
23) Vinyl Acetate	2.470	43	176545	10.192	ppbv	98
24) 1,1-Dichloroethane	2.415	63	93494	9.188	ppbv	99
25) Ethyl Acetate	2.842	43	309151	8.816	ppbv	99
26) Hexane	2.836	57	136644	8.576	ppbv	99
27) Carbon Disulfide	2.156	76	115247	9.421	ppbv #	92
28) Methyl tert-Butyl Ether	2.447	73	59350	9.179	ppbv	97
29) Chloroform	2.855	83	186648	9.008	ppbv	98
30) Cyclohexane	3.868	84	117225	8.874	ppbv	96
31) cis-1,2-Dichloroethene	2.729	61	130230	8.935	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	185446	8.760	ppbv	99
34) 2-Butanone	2.564	43	201605	9.284	ppbv	99
35) Carbon Tetrachloride	3.774	117	185074	9.207	ppbv	99
36) Benzene	3.667	78	272433	9.085	ppbv	99
37) 1,2-Dichloroethane	3.227	62	142338	9.551	ppbv	99
38) Trichloroethene	4.564	130	114177	8.958	ppbv	97
39) 1,2-Dichloropropane	4.324	63	99778	8.998	ppbv	96
40) 1,4-Dioxane	4.600	88	44586	8.985	ppbv #	89
41) Tetrahydrofuran	3.062	42	114785	9.030	ppbv	97
42) Bromodichloromethane	4.502	83	203990	9.637	ppbv	96
43) Methyl Methacrylate	4.894	69	108252	9.301	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	469200	9.148	ppbv	99
45) t-1,3-Dichloropropene	6.435	75	124105	9.319	ppbv	96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042591.D
Acq On : 29 May 2025 18:27
Operator : SY/MD
Sample : VL0529ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 02:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0529ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	154951	9.285	ppbv		97
47) 1,1,2-Trichloroethane	6.600	97	104561	9.109	ppbv		92
48) Dibromochloromethane	7.399	129	172109	9.366	ppbv		100
49) Bromoform	9.497	173	146803	9.258	ppbv		99
50) 4-Methyl-2-Pentanone	5.765	43	273778	9.089	ppbv		100
51) 2-Hexanone	7.451	43	223716	9.365	ppbv	#	98
52) Tetrachloroethene	8.238	164	96938	8.651	ppbv		96
53) Toluene	6.949	91	313414	9.043	ppbv		100
54) 1,2-Dibromoethane	7.665	107	154274	9.080	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.937	131	126022	9.220	ppbv		97
57) Chlorobenzene	8.933	112	238351	9.030	ppbv		98
58) Ethyl Benzene	9.367	91	429601	9.317	ppbv		95
59) m/p-Xylene	9.561	91	671824m	18.515	ppbv		
60) o-Xylene	9.976	91	335550	9.272	ppbv		98
61) Styrene	9.882	104	160164	9.360	ppbv		99
62) Isopropylbenzene	10.548	105	494692	9.253	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.976	83	206035	8.953	ppbv		99
64) n-propylbenzene	10.998	120	130645	9.116	ppbv		99
65) tert-Butylbenzene	11.539	119	429459	8.852	ppbv		98
66) Benzyl Chloride	11.623	91	55881	8.948	ppbv		99
67) sec-Butylbenzene	11.775	105	610578	8.951	ppbv		99
69) p-Isopropyltoluene	11.934	119	517737	9.064	ppbv		100
70) n-Butylbenzene	12.290	91	517212	9.173	ppbv		98
71) 2-Chlorotoluene	10.911	91	373380	9.156	ppbv		99
72) 4-Ethyltoluene	11.134	105	409747	9.081	ppbv		99
73) 1,3,5-Trimethylbenzene	11.212	105	340820	9.127	ppbv		100
74) 1,2,4-Trimethylbenzene	11.545	105	371004	8.953	ppbv		93
75) 1,3-Dichlorobenzene	11.617	146	237761	9.136	ppbv		98
76) 1,4-Dichlorobenzene	11.681	146	233300	8.989	ppbv		100
77) 1,2-Dichlorobenzene	11.956	146	224628	8.894	ppbv		99
78) Hexachloro-1,3-Butadiene	13.889	225	167082	7.995	ppbv		99
79) Naphthalene	13.520	128	374244	9.581	ppbv		99
80) Naphthalene,2-methyl-	14.465	142	187133	10.604	ppbv		98
81) 1,2,4-Trichlorobenzene	13.448	180	199137	9.132	ppbv		98

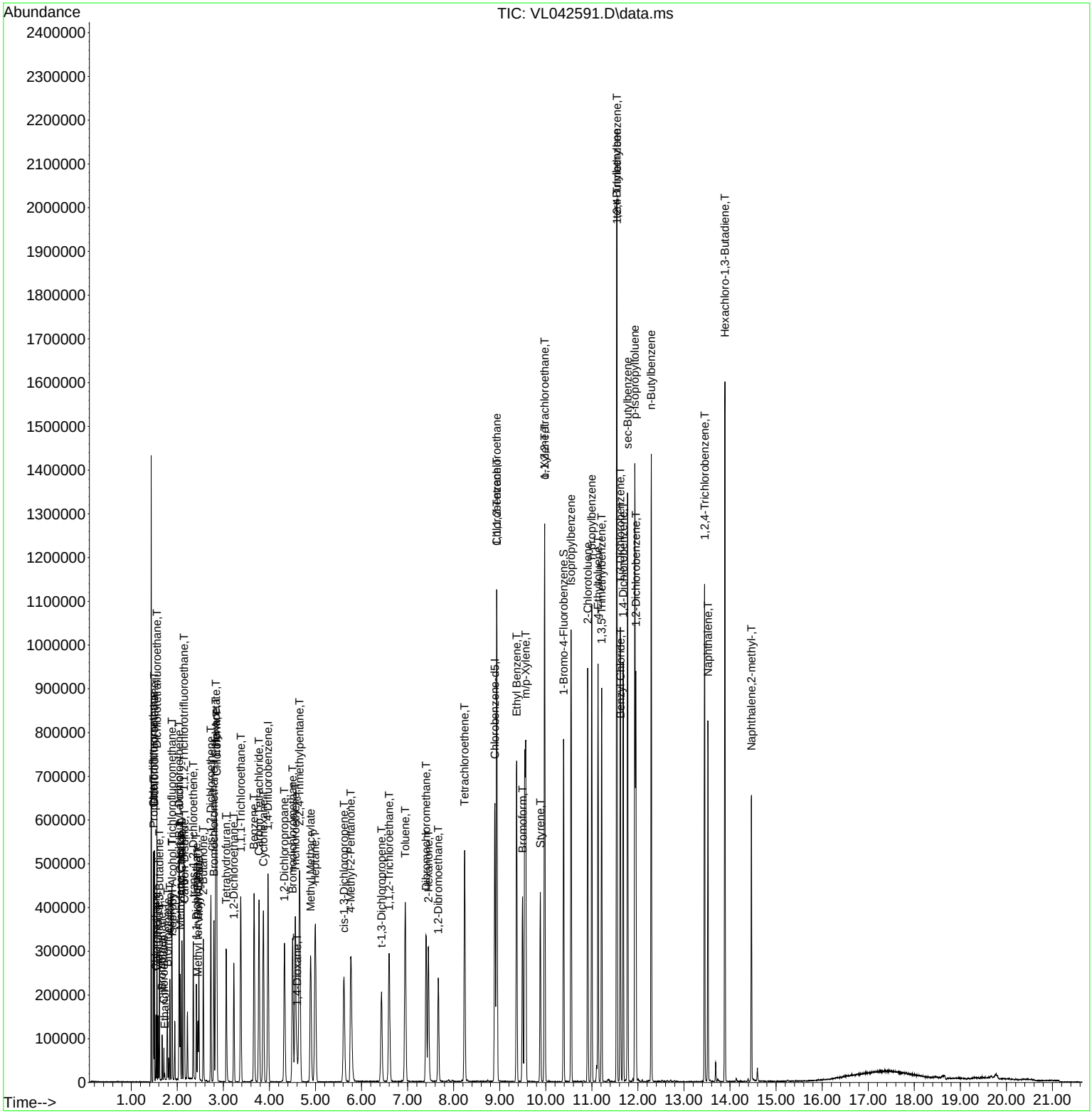
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042591.D
Acq On : 29 May 2025 18:27
Operator : SY/MD
Sample : VL0529ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 02:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0529ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042598.D
Acq On : 29 May 2025 22:18
Operator : SY/MD
Sample : QC052725 CAN 10609
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC052725 CAN 10609

Quant Time: May 30 02:15:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

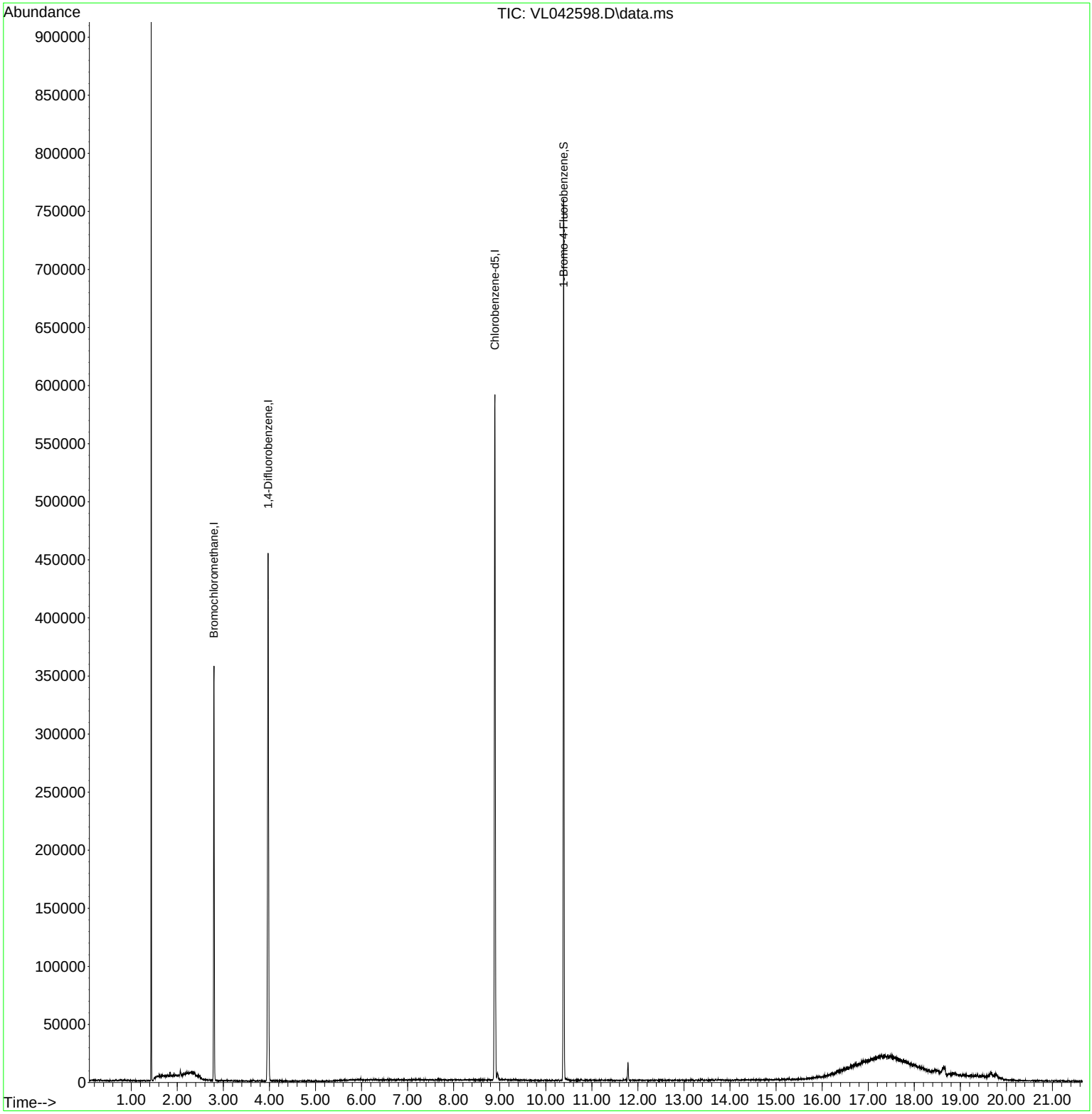
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.794	49	101427	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	282373	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	253475	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	192879	10.151	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.500%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042598.D
Acq On : 29 May 2025 22:18
Operator : SY/MD
Sample : QC052725 CAN 10609
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC052725 CAN 10609

Quant Time: May 30 02:15:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration



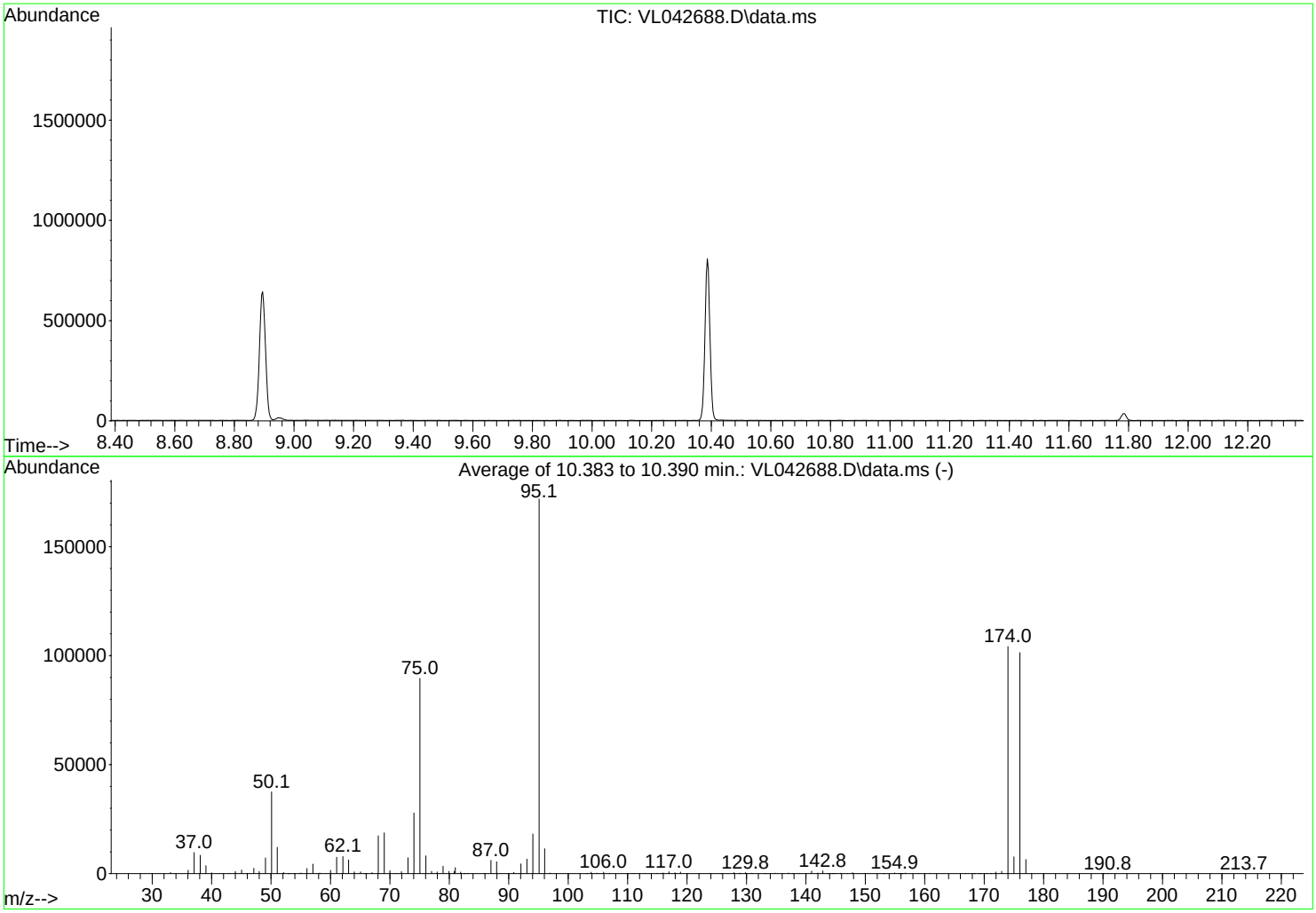
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042688.D
Acq On : 02 Jul 2025 07:41
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\VL070225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Thu Jul 03 01:50:16 2025



AutoFind: Scans 3181, 3182, 3183; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.8	37520	PASS
75	95	30	66	52.1	89627	PASS
95	95	100	100	100.0	171904	PASS
96	95	5	9	6.6	11430	PASS
173	174	0.00	2	1.0	1048	PASS
174	95	50	120	60.6	104181	PASS
175	174	4	9	7.4	7723	PASS
176	174	93	101	97.3	101413	PASS
177	176	5	9	6.4	6441	PASS

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL070225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Thu Jul 03 01:50:16 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL042694.D 0.1 =VL042696.D 0.5 =VL042692.D 1 =VL042691.D 2 =VL042690.D 10 =VL042689.D 15 =VL042695.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.126	1.083	1.116	0.930	0.980	1.047	8.33
3)		Chlorodifluoro...			1.661	1.695	1.619	1.394	1.457	1.565	8.44
4)		Chloromethane			0.414	0.446	0.440	0.370	0.382	0.411	8.23
5)	T	Vinyl Chloride	0.570	0.491	0.394	0.353	0.405	0.327	0.348	0.413	21.26
6)	T	Bromomethane			0.229	0.196	0.178	0.152	0.167	0.184	16.03
7)		Chloroethane			0.177	0.169	0.167	0.134	0.144	0.158	11.55
8)	T	Dichlorotetraf...			1.004	0.881	0.910	0.743	0.799	0.867	11.63
9)	T	Propene			0.608	0.596	0.641	0.528	0.557	0.586	7.56
10)	T	Heptane			1.323	1.521	1.691	1.663	1.756	1.591	10.85
11)	T	Trichlorofluor...			1.156	1.161	1.188	0.986	1.028	1.104	8.19
12)	T	1,1,2-Trichlor...			0.949	0.927	0.894	0.778	0.821	0.874	8.26
13)		Ethanol			0.069	0.065	0.073	0.038	0.037	0.057	30.76
14)	T	Bromoethene			0.331	0.311	0.323	0.269	0.289	0.305	8.23
15)	T	Acetone			1.231	1.081	1.051	0.766	0.830	0.992	19.25
16)	T	1,3-Butadiene			0.538	0.486	0.463	0.387	0.411	0.457	13.12
17)		tert-Butyl alc...			1.055	0.992	1.000	0.891	0.900	0.968	7.25
18)	T	1,1-Dichloroet...			0.440	0.392	0.418	0.335	0.356	0.388	11.10
19)	T	Isopropyl Alcohol			0.653	0.562	0.612	0.498	0.525	0.570	11.10
20)	T	Methylene Chlo...			0.505	0.403	0.389	0.285	0.314	0.379	22.75
21)	T	Allyl Chloride			0.735	0.692	0.720	0.634	0.678	0.692	5.64
22)	T	trans-1,2-Dich...			0.462	0.416	0.462	0.371	0.403	0.423	9.28
23)	T	Vinyl Acetate			1.439	1.500	1.640	1.779	1.667	1.605	8.48
24)	T	1,1-Dichloroet...			0.944	0.927	0.913	0.770	0.817	0.874	8.75
25)	T	Ethyl Acetate			2.898	2.929	3.239	2.906	3.029	3.000	4.79
26)	T	Hexane			1.143	1.240	1.345	1.222	1.309	1.252	6.29
27)	T	Carbon Disulfide			1.060	1.048	1.064	0.940	0.992	1.021	5.25
28)	T	Methyl tert-Bu...			0.493	0.509	0.595	0.514	0.450	0.512	10.32
29)	T	Chloroform			1.984	1.990	2.031	1.674	1.774	1.891	8.30
30)	T	Cyclohexane			0.806	0.904	1.016	0.955	1.037	0.944	9.87
31)	T	cis-1,2-Dichlo...			1.127	1.234	1.234	1.140	1.222	1.191	4.46
32)	T	1,1,1-Trichlor...	2.344	1.943	1.787	1.713	1.720	1.548	1.642	1.814	14.56
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.778	0.821	0.829	0.745	0.785	0.791	4.33
35)	T	Carbon Tetrach...	0.802	0.742	0.673	0.688	0.667	0.620	0.652	0.692	8.83
36)	T	Benzene			0.986	1.050	1.034	0.965	1.004	1.008	3.45
37)	T	1,2-Dichloroet...			0.568	0.562	0.543	0.493	0.511	0.535	6.08
38)	T	Trichloroethene	0.431	0.554	0.403	0.438	0.435	0.379	0.407	0.435	12.98
39)	T	1,2-Dichloropr...			0.423	0.399	0.405	0.359	0.379	0.393	6.23

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL070225AIR.M

40)	T	1,4-Dioxane			0.150	0.153	0.149	0.155	0.156	0.152	1.89
41)	T	Tetrahydrofuran			0.361	0.383	0.410	0.416	0.445	0.403	7.97
42)	T	Bromodichlorom...			0.781	0.768	0.774	0.719	0.749	0.758	3.26
43)		Methyl Methacr...			0.235	0.324	0.325	0.354	0.383	0.324	17.15
44)	T	2,2,4-Trimethy...			1.510	1.690	1.791	1.703	1.772	1.693	6.55
45)	T	t-1,3-Dichloro...			0.276	0.314	0.335	0.371	0.404	0.340	14.55
46)	T	cis-1,3-Dichlo...			0.419	0.438	0.464	0.494	0.532	0.469	9.54
47)	T	1,1,2-Trichlor...			0.376	0.403	0.398	0.368	0.392	0.387	3.85
48)	T	Dibromochlorom...			0.569	0.604	0.621	0.575	0.595	0.593	3.56
49)	T	Bromoform			0.484	0.524	0.521	0.506	0.525	0.512	3.36
50)	T	4-Methyl-2-Pen...			0.818	0.849	0.929	0.997	1.041	0.927	10.20
51)	T	2-Hexanone			0.492	0.564	0.684	0.792	0.839	0.674	21.82
52)	T	Tetrachloroethene	0.317	0.401	0.324	0.337	0.338	0.314	0.327	0.337	8.85
53)	T	Toluene			0.751	0.861	0.951	1.035	1.107	0.941	14.91
54)	T	1,2-Dibromoethane		0.557	0.531	0.523	0.550	0.525	0.553	0.540	2.77
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.580	0.588	0.552	0.479	0.504	0.541	8.82
57)	T	Chlorobenzene			1.058	1.069	1.060	0.897	0.932	1.003	8.17
58)	T	Ethyl Benzene			1.153	1.297	1.513	1.590	1.678	1.446	14.96
59)	T	m/p-Xylene			0.938	1.152	1.309	1.301	1.357	1.211	14.14
60)	T	o-Xylene			0.889	1.154	1.317	1.268	1.329	1.192	15.32
61)	T	Styrene			0.341	0.392	0.464	0.548	0.596	0.468	22.61
62)		Isopropylbenzene			1.528	1.732	1.954	1.846	1.934	1.799	9.72
63)	T	1,1,2,2-Tetrac...	0.944	1.004	0.925	0.951	0.947	0.818	0.834	0.918	7.31
64)		n-propylbenzene			0.329	0.460	0.507	0.487	0.519	0.460	16.66
65)		tert-Butylbenzene			1.177	1.508	1.784	1.591	1.637	1.539	14.69
66)	T	Benzyl Chloride			0.117	0.136	0.151	0.160	0.182	0.149	16.53
67)		sec-Butylbenzene			1.996	2.437	2.659	2.316	2.384	2.358	10.17
68)	S	1-Bromo-4-Fluo...	0.736	0.746	0.772	0.772	0.780	0.788	0.789	0.769	2.66
69)		p-Isopropyltol...			1.494	1.850	2.142	1.916	1.982	1.877	12.79
70)		n-Butylbenzene			1.384	1.816	2.204	1.980	2.070	1.891	16.74
71)		2-Chlorotoluene			1.076	1.278	1.410	1.404	1.484	1.331	12.06
72)	T	4-Ethyltoluene			1.100	1.342	1.607	1.570	1.650	1.454	15.90
73)	T	1,3,5-Trimethy...			0.935	1.194	1.348	1.302	1.349	1.226	14.20
74)	T	1,2,4-Trimethy...			1.066	1.443	1.617	1.427	1.439	1.398	14.43
75)	T	1,3-Dichlorobe...			0.949	1.062	1.048	0.908	0.939	0.981	7.06
76)	T	1,4-Dichlorobe...			0.846	0.980	1.002	0.893	0.934	0.931	6.81
77)	T	1,2-Dichlorobe...			1.022	1.065	1.104	0.868	0.897	0.991	10.52
78)	T	Hexachloro-1,3...			0.834	0.886	0.904	0.609	0.627	0.772	18.56
79)	T	Naphthalene		0.714	0.655	1.126	1.653	1.387	1.467	1.167	35.19
80)	T	Naphthalene,2-...			0.192	0.303	0.580	0.621	0.728	0.485	46.79
81)	T	1,2,4-Trichlor...			0.440	0.679	0.848	0.696	0.738	0.680	21.98

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042689.D
Acq On : 02 Jul 2025 08:23
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:24:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	121549	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	305681	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	274998	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	216760	10.248	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	113054	8.884	ppbv	100
3) Chlorodifluoromethane	1.479	51	169455	8.906	ppbv	100
4) Chloromethane	1.538	50	45033	9.023	ppbv	100
5) Vinyl Chloride	1.586	62	39799	7.934	ppbv	100
6) Bromomethane	1.674	94	18514	8.261	ppbv	100
7) Chloroethane	1.709	64	16324	8.475	ppbv	100
8) Dichlorotetrafluoroethane	1.560	85	90329	8.568	ppbv	100
9) Propene	1.489	41	64135	9.008	ppbv	100
10) Heptane	5.001	43	202087	10.459	ppbv	100
11) Trichlorofluoromethane	1.884	101	119888	8.936	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	94571	8.905	ppbv	100
13) Ethanol	1.725	45	4676	6.914	ppbv	100
14) Bromoethene	1.787	108	32746	8.847	ppbv	100
15) Acetone	1.842	43	93100	7.723	ppbv	100
16) 1,3-Butadiene	1.615	39	47034	8.467	ppbv	100
17) tert-Butyl alcohol	2.046	59	108342	9.213	ppbv	100
18) 1,1-Dichloroethene	2.043	96	40741	8.635	ppbv	100
19) Isopropyl Alcohol	1.894	45	60503	8.732	ppbv	100
20) Methylene Chloride	2.068	84	34637	7.514	ppbv	100
21) Allyl Chloride	2.104	41	77114	9.171	ppbv	100
22) trans-1,2-Dichloroethene	2.350	96	45122	8.780	ppbv	100
23) Vinyl Acetate	2.470	43	216251	11.085	ppbv	100
24) 1,1-Dichloroethane	2.418	63	93547	8.806	ppbv	100
25) Ethyl Acetate	2.845	43	353206	9.686	ppbv	100
26) Hexane	2.836	57	148490	9.760	ppbv	100
27) Carbon Disulfide	2.159	76	114223	9.206	ppbv	100
28) Methyl tert-Butyl Ether	2.450	73	62430	10.029	ppbv	100
29) Chloroform	2.858	83	203528	8.856	ppbv	100
30) Cyclohexane	3.871	84	116132	10.102	ppbv	100
31) cis-1,2-Dichloroethene	2.732	61	138516	9.566	ppbv	100
32) 1,1,1-Trichloroethane	3.383	97	188105	8.565	ppbv	100
34) 2-Butanone	2.567	43	227587	9.407	ppbv	100
35) Carbon Tetrachloride	3.777	117	189434	8.935	ppbv	100
36) Benzene	3.671	78	294950	9.573	ppbv	100
37) 1,2-Dichloroethane	3.230	62	150635	9.206	ppbv	100
38) Trichloroethene	4.567	130	115839	8.702	ppbv	100
39) 1,2-Dichloropropane	4.331	63	109807	9.134	ppbv	100
40) 1,4-Dioxane	4.603	88	47243m	10.227	ppbv	
41) Tetrahydrofuran	3.065	42	127174	10.315	ppbv	100
42) Bromodichloromethane	4.509	83	219936	9.490	ppbv	100
43) Methyl Methacrylate	4.901	69	108301	10.946	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	520537	10.125	ppbv	100
45) t-1,3-Dichloropropene	6.441	75	113519	10.918	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042689.D
Acq On : 02 Jul 2025 08:23
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:24:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	151004	10.525	ppbv	100
47) 1,1,2-Trichloroethane	6.606	97	112381	9.497	ppbv	100
48) Dibromochloromethane	7.406	129	175681	9.695	ppbv	100
49) Bromoform	9.500	173	154598	9.878	ppbv	100
50) 4-Methyl-2-Pentanone	5.774	43	304838	10.779	ppbv	100
51) 2-Hexanone	7.454	43	242187	11.723	ppbv	100
52) Tetrachloroethene	8.244	164	95960	9.286	ppbv	100
53) Toluene	6.956	91	316330	10.996	ppbv	100
54) 1,2-Dibromoethane	7.671	107	160587	9.724	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.943	131	131624	8.852	ppbv	100
57) Chlorobenzene	8.937	112	246807	8.946	ppbv	100
58) Ethyl Benzene	9.370	91	437123	10.992	ppbv	100
59) m/p-Xylene	9.548	91	715399m	21.466	ppbv	
60) o-Xylene	9.979	91	348790	10.644	ppbv	100
61) Styrene	9.885	104	150633	11.702	ppbv	100
62) Isopropylbenzene	10.552	105	507546	10.262	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	225039	8.918	ppbv	100
64) n-propylbenzene	11.002	120	133873	10.572	ppbv	100
65) tert-Butylbenzene	11.542	119	437623	10.337	ppbv	100
66) Benzyl Chloride	11.626	91	44118	10.756	ppbv	100
67) sec-Butylbenzene	11.778	105	636845	9.820	ppbv	100
69) p-Isopropyltoluene	11.937	119	526956	10.209	ppbv	100
70) n-Butylbenzene	12.293	91	544456	10.470	ppbv	100
71) 2-Chlorotoluene	10.914	91	386204	10.555	ppbv	100
72) 4-Ethyltoluene	11.138	105	431817	10.800	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	358173	10.625	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	392374	10.203	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	249683	9.254	ppbv	100
76) 1,4-Dichlorobenzene	11.685	146	245671	9.594	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	238600	8.754	ppbv	100
78) Hexachloro-1,3-Butadiene	13.892	225	167444	7.888	ppbv	100
79) Naphthalene	13.523	128	381414	11.964	ppbv	100
80) Naphthalene,2-methyl-	14.468	142	170730	12.807	ppbv	100
81) 1,2,4-Trichlorobenzene	13.452	180	191399	10.233	ppbv	100

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

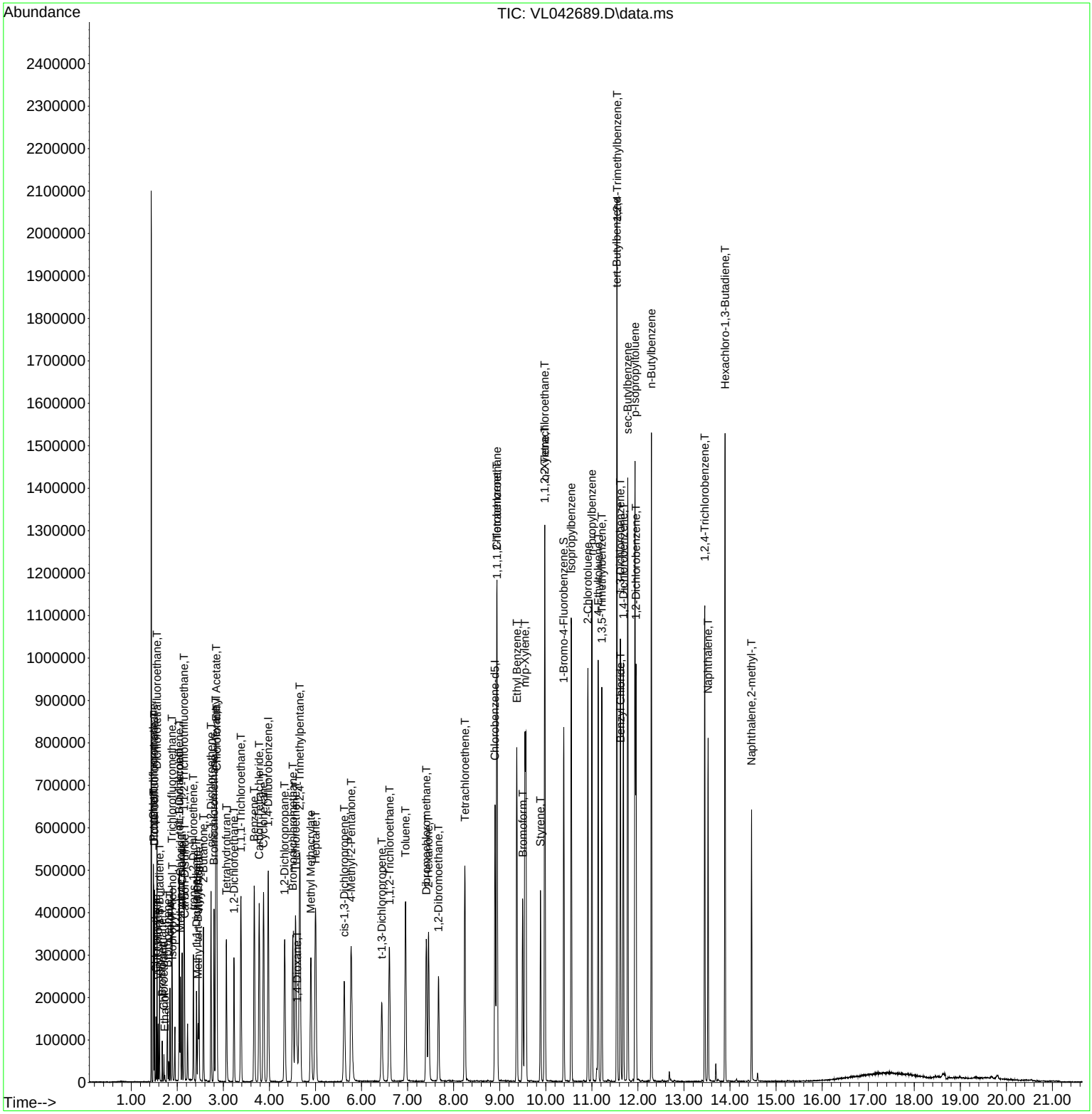
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042689.D
Acq On : 02 Jul 2025 08:23
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:24:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042690.D
Acq On : 02 Jul 2025 08:56
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.794	49	120042	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.969	114	312860	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.892	117	271598	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.384	95	211854	10.141	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	26783	2.131	ppbv		97
3) Chlorodifluoromethane	1.480	51	38872	2.069	ppbv		100
4) Chloromethane	1.535	50	10573	2.145	ppbv		89
5) Vinyl Chloride	1.583	62	9733	1.965	ppbv		99
6) Bromomethane	1.671	94	4273	1.931	ppbv		97
7) Chloroethane	1.706	64	4013	2.110	ppbv		97
8) Dichlorotetrafluoroethane	1.557	85	21841	2.098	ppbv		100
9) Propene	1.486	41	15391	2.189	ppbv		95
10) Heptane	4.995	43	40605m	2.128	ppbv		
11) Trichlorofluoromethane	1.881	101	28523	2.153	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.143	101	21456	2.046	ppbv		95
13) Ethanol	1.726	45	1757	2.630	ppbv		95
14) Bromoethene	1.784	108	7746	2.119	ppbv	#	96
15) Acetone	1.839	43	25238	2.120	ppbv		97
16) 1,3-Butadiene	1.612	39	11117	2.026	ppbv		99
17) tert-Butyl alcohol	2.046	59	23997	2.066	ppbv		97
18) 1,1-Dichloroethene	2.040	96	10032	2.153	ppbv		94
19) Isopropyl Alcohol	1.891	45	14705	2.149	ppbv	#	1
20) Methylene Chloride	2.066	84	9338	2.051	ppbv		97
21) Allyl Chloride	2.101	41	17280	2.081	ppbv		98
22) trans-1,2-Dichloroethene	2.347	96	11093	2.186	ppbv		94
23) Vinyl Acetate	2.467	43	39372	2.044	ppbv	#	98
24) 1,1-Dichloroethane	2.415	63	21916	2.089	ppbv		99
25) Ethyl Acetate	2.842	43	77767	2.159	ppbv		100
26) Hexane	2.833	57	32281	2.148	ppbv		98
27) Carbon Disulfide	2.156	76	25545	2.085	ppbv	#	85
28) Methyl tert-Butyl Ether	2.451	73	14297	2.326	ppbv		100
29) Chloroform	2.855	83	48759	2.148	ppbv		92
30) Cyclohexane	3.872	84	24389	2.148	ppbv		95
31) cis-1,2-Dichloroethene	2.729	61	29632	2.072	ppbv		100
32) 1,1,1-Trichloroethane	3.376	97	41283	1.903	ppbv		98
34) 2-Butanone	2.564	43	51845	2.094	ppbv		97
35) Carbon Tetrachloride	3.771	117	41742	1.924	ppbv		94
36) Benzene	3.664	78	64694	2.052	ppbv		98
37) 1,2-Dichloroethane	3.224	62	33990	2.030	ppbv		97
38) Trichloroethene	4.561	130	27249	2.000	ppbv		89
39) 1,2-Dichloropropane	4.321	63	25320	2.058	ppbv	#	84
40) 1,4-Dioxane	4.600	88	9321m	1.972	ppbv		
41) Tetrahydrofuran	3.066	42	25677	2.035	ppbv		97
42) Bromodichloromethane	4.499	83	48408	2.041	ppbv		96
43) Methyl Methacrylate	4.898	69	20355	2.010	ppbv		97
44) 2,2,4-Trimethylpentane	4.652	57	112040	2.129	ppbv		98
45) t-1,3-Dichloropropene	6.432	75	20979m	1.971	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042690.D
Acq On : 02 Jul 2025 08:56
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	29059m	1.979	ppbv		
47) 1,1,2-Trichloroethane	6.597	97	24877m	2.054	ppbv		
48) Dibromochloromethane	7.396	129	38842	2.094	ppbv		99
49) Bromoform	9.494	173	32624	2.037	ppbv		98
50) 4-Methyl-2-Pentanone	5.771	43	58107	2.008	ppbv		99
51) 2-Hexanone	7.451	43	42828	2.026	ppbv	#	99
52) Tetrachloroethene	8.238	164	21125	1.997	ppbv		92
53) Toluene	6.950	91	59500	2.021	ppbv		100
54) 1,2-Dibromoethane	7.668	107	34397	2.035	ppbv		93
56) 1,1,1,2-Tetrachloroethane	8.937	131	30008	2.043	ppbv		94
57) Chlorobenzene	8.930	112	57600	2.114	ppbv	#	92
58) Ethyl Benzene	9.367	91	82202	2.093	ppbv		98
59) m/p-Xylene	9.562	91	142254m	4.322	ppbv		
60) o-Xylene	9.973	91	71539	2.211	ppbv		95
61) Styrene	9.882	104	25203	1.982	ppbv		98
62) Isopropylbenzene	10.549	105	106122	2.172	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.973	83	51423	2.063	ppbv		99
64) n-propylbenzene	10.995	120	27567	2.204	ppbv		91
65) tert-Butylbenzene	11.539	119	96905	2.318	ppbv		98
66) Benzyl Chloride	11.623	91	8222	2.030	ppbv		99
67) sec-Butylbenzene	11.775	105	144413	2.255	ppbv		99
69) p-Isopropyltoluene	11.934	119	116378	2.283	ppbv		100
70) n-Butylbenzene	12.287	91	119746	2.332	ppbv		98
71) 2-Chlorotoluene	10.911	91	76582	2.119	ppbv		99
72) 4-Ethyltoluene	11.135	105	87315	2.211	ppbv		98
73) 1,3,5-Trimethylbenzene	11.212	105	73219	2.199	ppbv		98
74) 1,2,4-Trimethylbenzene	11.542	105	87853	2.313	ppbv		97
75) 1,3-Dichlorobenzene	11.614	146	56931	2.136	ppbv		98
76) 1,4-Dichlorobenzene	11.678	146	54426	2.152	ppbv		99
77) 1,2-Dichlorobenzene	11.953	146	59993	2.229	ppbv		99
78) Hexachloro-1,3-Butadiene	13.889	225	49131	2.343	ppbv		100
79) Naphthalene	13.520	128	89795	2.852	ppbv		98
80) Naphthalene,2-methyl-	14.465	142	31532	2.395	ppbv		98
81) 1,2,4-Trichlorobenzene	13.446	180	46047	2.493	ppbv		100

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

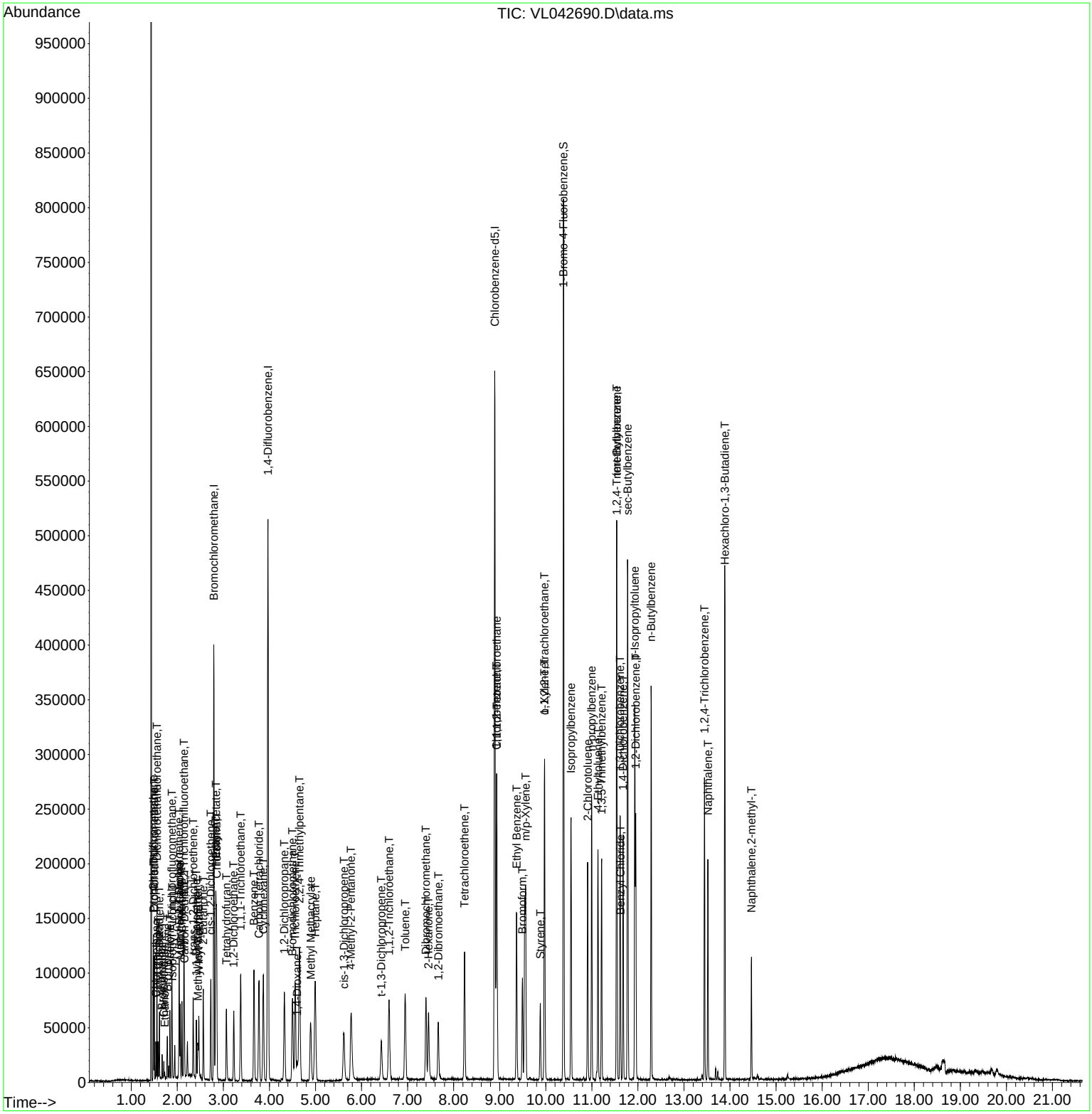
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042690.D
Acq On : 02 Jul 2025 08:56
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042691.D
Acq On : 02 Jul 2025 09:28
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:26:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.794	49	122042	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	305483	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	263429	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	203435	10.040	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	13214	1.034	ppbv	100
3) Chlorodifluoromethane	1.480	51	20689	1.083	ppbv	97
4) Chloromethane	1.535	50	5440	1.086	ppbv	92
5) Vinyl Chloride	1.583	62	4311	0.856	ppbv	99
6) Bromomethane	1.670	94	2395	1.064	ppbv #	76
7) Chloroethane	1.709	64	2066	1.068	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	10757	1.016	ppbv	98
9) Propene	1.486	41	7269	1.017	ppbv	97
10) Heptane	4.998	43	18560m	0.957	ppbv	
11) Trichlorofluoromethane	1.881	101	14164	1.051	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	11318	1.061	ppbv	95
13) Ethanol	1.725	45	795	1.171	ppbv	72
14) Bromoethene	1.787	108	3790	1.020	ppbv	95
15) Acetone	1.839	43	13196	1.090	ppbv	94
16) 1,3-Butadiene	1.612	39	5928	1.063	ppbv	93
17) tert-Butyl alcohol	2.046	59	12101	1.025	ppbv	99
18) 1,1-Dichloroethene	2.039	96	4779	1.009	ppbv	90
19) Isopropyl Alcohol	1.891	45	6861	0.986	ppbv #	1
20) Methylene Chloride	2.069	84	4922	1.063	ppbv	93
21) Allyl Chloride	2.101	41	8443	1.000	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	5076	0.984	ppbv	95
23) Vinyl Acetate	2.470	43	18307	0.935	ppbv	97
24) 1,1-Dichloroethane	2.415	63	11310	1.060	ppbv	96
25) Ethyl Acetate	2.845	43	35741	0.976	ppbv	96
26) Hexane	2.832	57	15131	0.991	ppbv	97
27) Carbon Disulfide	2.156	76	12785	1.026	ppbv #	78
28) Methyl tert-Butyl Ether	2.447	73	6208	0.993	ppbv	97
29) Chloroform	2.855	83	24283	1.052	ppbv	99
30) Cyclohexane	3.868	84	11035	0.956	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	15056	1.036	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	20910	0.948	ppbv	97
34) 2-Butanone	2.567	43	25091	1.038	ppbv	98
35) Carbon Tetrachloride	3.771	117	21021	0.992	ppbv	88
36) Benzene	3.667	78	32089	1.042	ppbv	93
37) 1,2-Dichloroethane	3.231	62	17166	1.050	ppbv	98
38) Trichloroethene	4.567	130	13382m	1.006	ppbv	
39) 1,2-Dichloropropane	4.324	63	12193	1.015	ppbv	95
40) 1,4-Dioxane	4.606	88	4659m	1.009	ppbv	
41) Tetrahydrofuran	3.069	42	11715	0.951	ppbv	99
42) Bromodichloromethane	4.503	83	23463	1.013	ppbv #	92
43) Methyl Methacrylate	4.891	69	9890m	1.000	ppbv	
44) 2,2,4-Trimethylpentane	4.651	57	51620m	1.005	ppbv	
45) t-1,3-Dichloropropene	6.438	75	9601m	0.924	ppbv	

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042691.D
Acq On : 02 Jul 2025 09:28
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:26:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	13366	0.932	ppbv		92
47) 1,1,2-Trichloroethane	6.597	97	12302m	1.040	ppbv		
48) Dibromochloromethane	7.399	129	18446	1.019	ppbv		95
49) Bromoform	9.497	173	16000	1.023	ppbv		99
50) 4-Methyl-2-Pentanone	5.778	43	25940m	0.918	ppbv		
51) 2-Hexanone	7.454	43	17236	0.835	ppbv	#	96
52) Tetrachloroethene	8.238	164	10305	0.998	ppbv		95
53) Toluene	6.949	91	26314	0.915	ppbv		99
54) 1,2-Dibromoethane	7.665	107	15978	0.968	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.940	131	15492	1.088	ppbv		97
57) Chlorobenzene	8.937	112	28166	1.066	ppbv	#	93
58) Ethyl Benzene	9.367	91	34160	0.897	ppbv		100
59) m/p-Xylene	9.561	91	60678m	1.901	ppbv		
60) o-Xylene	9.976	91	30409	0.969	ppbv		99
61) Styrene	9.882	104	10327	0.837	ppbv		97
62) Isopropylbenzene	10.552	105	45619	0.963	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.972	83	25045	1.036	ppbv		99
64) n-propylbenzene	10.995	120	12111	0.998	ppbv		100
65) tert-Butylbenzene	11.539	119	39720	0.979	ppbv		98
66) Benzyl Chloride	11.626	91	3571	0.909	ppbv	#	97
67) sec-Butylbenzene	11.775	105	64205	1.033	ppbv		97
69) p-Isopropyltoluene	11.934	119	48735	0.986	ppbv		98
70) n-Butylbenzene	12.290	91	47831	0.960	ppbv		96
71) 2-Chlorotoluene	10.911	91	33676	0.961	ppbv		100
72) 4-Ethyltoluene	11.134	105	35361	0.923	ppbv	#	97
73) 1,3,5-Trimethylbenzene	11.215	105	31466	0.974	ppbv		93
74) 1,2,4-Trimethylbenzene	11.545	105	38012	1.032	ppbv		88
75) 1,3-Dichlorobenzene	11.617	146	27976	1.082	ppbv		98
76) 1,4-Dichlorobenzene	11.681	146	25814	1.052	ppbv		97
77) 1,2-Dichlorobenzene	11.957	146	28060	1.075	ppbv		98
78) Hexachloro-1,3-Butadiene	13.889	225	23328	1.147	ppbv		96
79) Naphthalene	13.523	128	29658	0.971	ppbv		98
80) Naphthalene,2-methyl-	14.465	142	7977	0.625	ppbv		98
81) 1,2,4-Trichlorobenzene	13.445	180	17882	0.998	ppbv		99

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

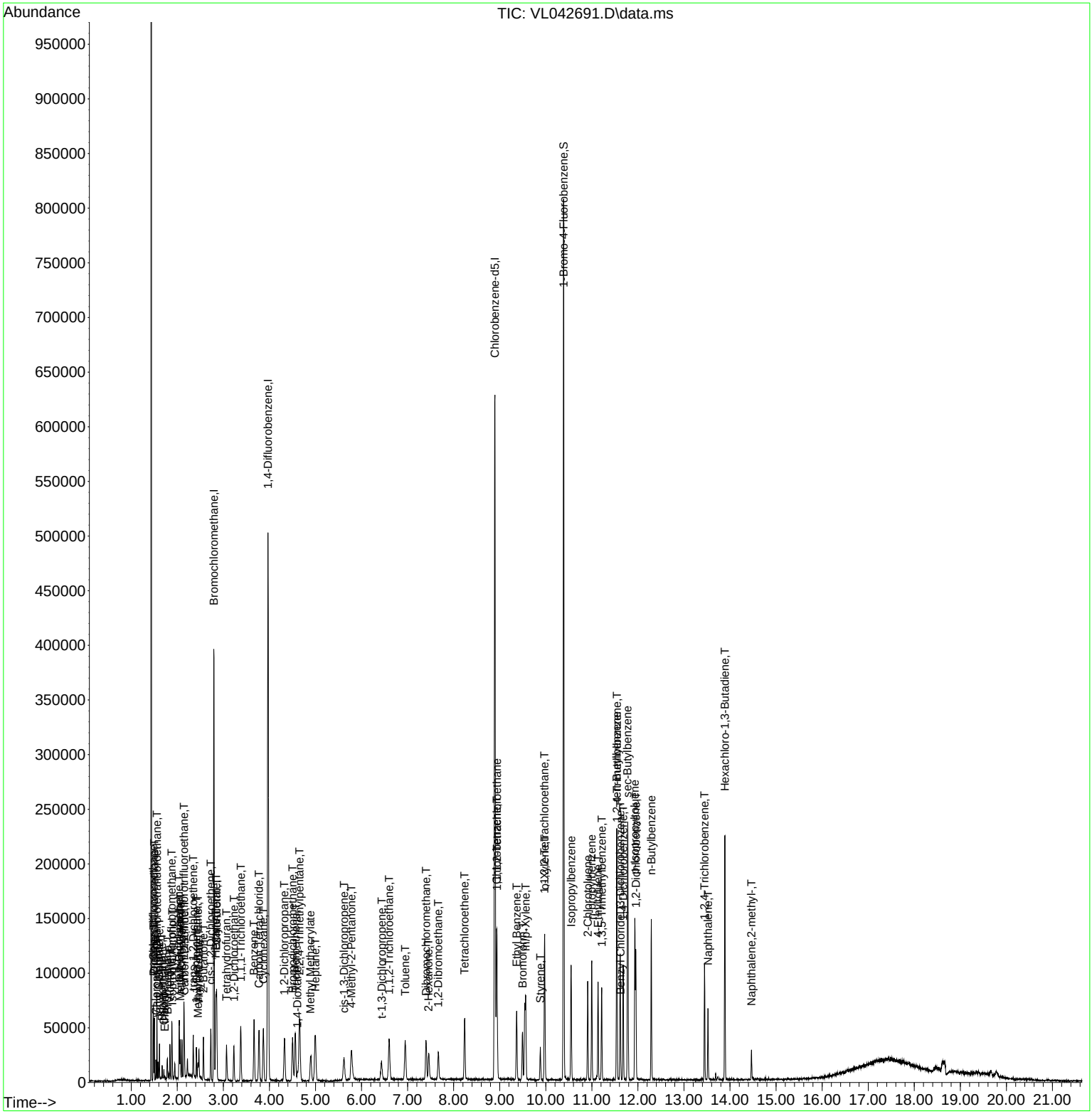
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042691.D
Acq On : 02 Jul 2025 09:28
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:26:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042692.D
Acq On : 02 Jul 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:27:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	120056	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.965	114	305088	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.891	117	264493	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	204100	10.032	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	6761	0.538	ppbv		93
3) Chlorodifluoromethane	1.479	51	9970	0.531	ppbv		100
4) Chloromethane	1.534	50	2488	0.505	ppbv		94
5) Vinyl Chloride	1.583	62	2367	0.478	ppbv		97
6) Bromomethane	1.670	94	1373	0.620	ppbv		87
7) Chloroethane	1.709	64	1065	0.560	ppbv		90
8) Dichlorotetrafluoroethane	1.557	85	6025	0.579	ppbv		94
9) Propene	1.486	41	3647	0.519	ppbv		100
10) Heptane	4.988	43	7941m	0.416	ppbv		
11) Trichlorofluoromethane	1.881	101	6942	0.524	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.143	101	5694	0.543	ppbv		98
13) Ethanol	1.725	45	413	0.618	ppbv	#	37
14) Bromoethene	1.784	108	1985	0.543	ppbv	#	89
15) Acetone	1.839	43	7388	0.620	ppbv		95
16) 1,3-Butadiene	1.609	39	3229	0.588	ppbv		93
17) tert-Butyl alcohol	2.046	59	6335	0.545	ppbv		94
18) 1,1-Dichloroethene	2.036	96	2642	0.567	ppbv	#	91
19) Isopropyl Alcohol	1.890	45	3920	0.573	ppbv	#	1
20) Methylene Chloride	2.065	84	3034	0.666	ppbv		95
21) Allyl Chloride	2.098	41	4410	0.531	ppbv		90
22) trans-1,2-Dichloroethene	2.344	96	2772m	0.546	ppbv		
23) Vinyl Acetate	2.463	43	8636	0.448	ppbv	#	90
24) 1,1-Dichloroethane	2.415	63	5666	0.540	ppbv	#	95
25) Ethyl Acetate	2.845	43	17395	0.483	ppbv		99
26) Hexane	2.832	57	6861	0.457	ppbv		90
27) Carbon Disulfide	2.153	76	6363	0.519	ppbv	#	30
28) Methyl tert-Butyl Ether	2.444	73	2957	0.481	ppbv	#	89
29) Chloroform	2.855	83	11910	0.525	ppbv		97
30) Cyclohexane	3.858	84	4837m	0.426	ppbv		
31) cis-1,2-Dichloroethene	2.725	61	6768	0.473	ppbv		89
32) 1,1,1-Trichloroethane	3.373	97	10729	0.495	ppbv		96
34) 2-Butanone	2.567	43	11862	0.491	ppbv		98
35) Carbon Tetrachloride	3.768	117	10262	0.485	ppbv	#	86
36) Benzene	3.661	78	15039	0.489	ppbv		97
37) 1,2-Dichloroethane	3.224	62	8660	0.530	ppbv		99
38) Trichloroethene	4.561	130	6153	0.463	ppbv		94
39) 1,2-Dichloropropane	4.318	63	6453m	0.538	ppbv		
40) 1,4-Dioxane	4.609	88	2287m	0.496	ppbv		
41) Tetrahydrofuran	3.069	42	5513	0.448	ppbv		98
42) Bromodichloromethane	4.496	83	11914m	0.515	ppbv		
43) Methyl Methacrylate	4.891	69	3578m	0.362	ppbv		
44) 2,2,4-Trimethylpentane	4.654	57	23040m	0.449	ppbv		
45) t-1,3-Dichloropropene	6.438	75	4215m	0.406	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042692.D
Acq On : 02 Jul 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:27:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	6399m	0.447	ppbv		
47) 1,1,2-Trichloroethane	6.600	97	5730m	0.485	ppbv		
48) Dibromochloromethane	7.393	129	8686	0.480	ppbv		93
49) Bromoform	9.490	173	7390	0.473	ppbv		97
50) 4-Methyl-2-Pentanone	5.778	43	12481m	0.442	ppbv		
51) 2-Hexanone	7.457	43	7501m	0.364	ppbv		
52) Tetrachloroethene	8.234	164	4943m	0.479	ppbv		
53) Toluene	6.940	91	11461	0.399	ppbv		100
54) 1,2-Dibromoethane	7.661	107	8096	0.491	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.930	131	7670	0.536	ppbv	#	1
57) Chlorobenzene	8.927	112	13987	0.527	ppbv		90
58) Ethyl Benzene	9.364	91	15248	0.399	ppbv		97
59) m/p-Xylene	9.558	91	24797m	0.774	ppbv		
60) o-Xylene	9.969	91	11759	0.373	ppbv		100
61) Styrene	9.875	104	4504	0.364	ppbv		99
62) Isopropylbenzene	10.545	105	20205	0.425	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.969	83	12230	0.504	ppbv		97
64) n-propylbenzene	10.995	120	4354	0.358	ppbv		79
65) tert-Butylbenzene	11.536	119	15561	0.382	ppbv		98
66) Benzyl Chloride	11.617	91	1543	0.391	ppbv	#	83
67) sec-Butylbenzene	11.778	105	26399	0.423	ppbv		98
69) p-Isopropyltoluene	11.930	119	19758	0.398	ppbv		98
70) n-Butylbenzene	12.287	91	18308	0.366	ppbv		93
71) 2-Chlorotoluene	10.908	91	14226	0.404	ppbv		99
72) 4-Ethyltoluene	11.131	105	14541	0.378	ppbv		98
73) 1,3,5-Trimethylbenzene	11.212	105	12371	0.382	ppbv		94
74) 1,2,4-Trimethylbenzene	11.545	105	14096	0.381	ppbv	#	83
75) 1,3-Dichlorobenzene	11.613	146	12551	0.484	ppbv		96
76) 1,4-Dichlorobenzene	11.678	146	11188	0.454	ppbv		96
77) 1,2-Dichlorobenzene	11.953	146	13512	0.515	ppbv		97
78) Hexachloro-1,3-Butadiene	13.885	225	11034	0.540	ppbv		97
79) Naphthalene	13.520	128	8668	0.283	ppbv	#	94
80) Naphthalene,2-methyl-	14.462	142	2536	0.198	ppbv		85
81) 1,2,4-Trichlorobenzene	13.445	180	5818	0.323	ppbv		94

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

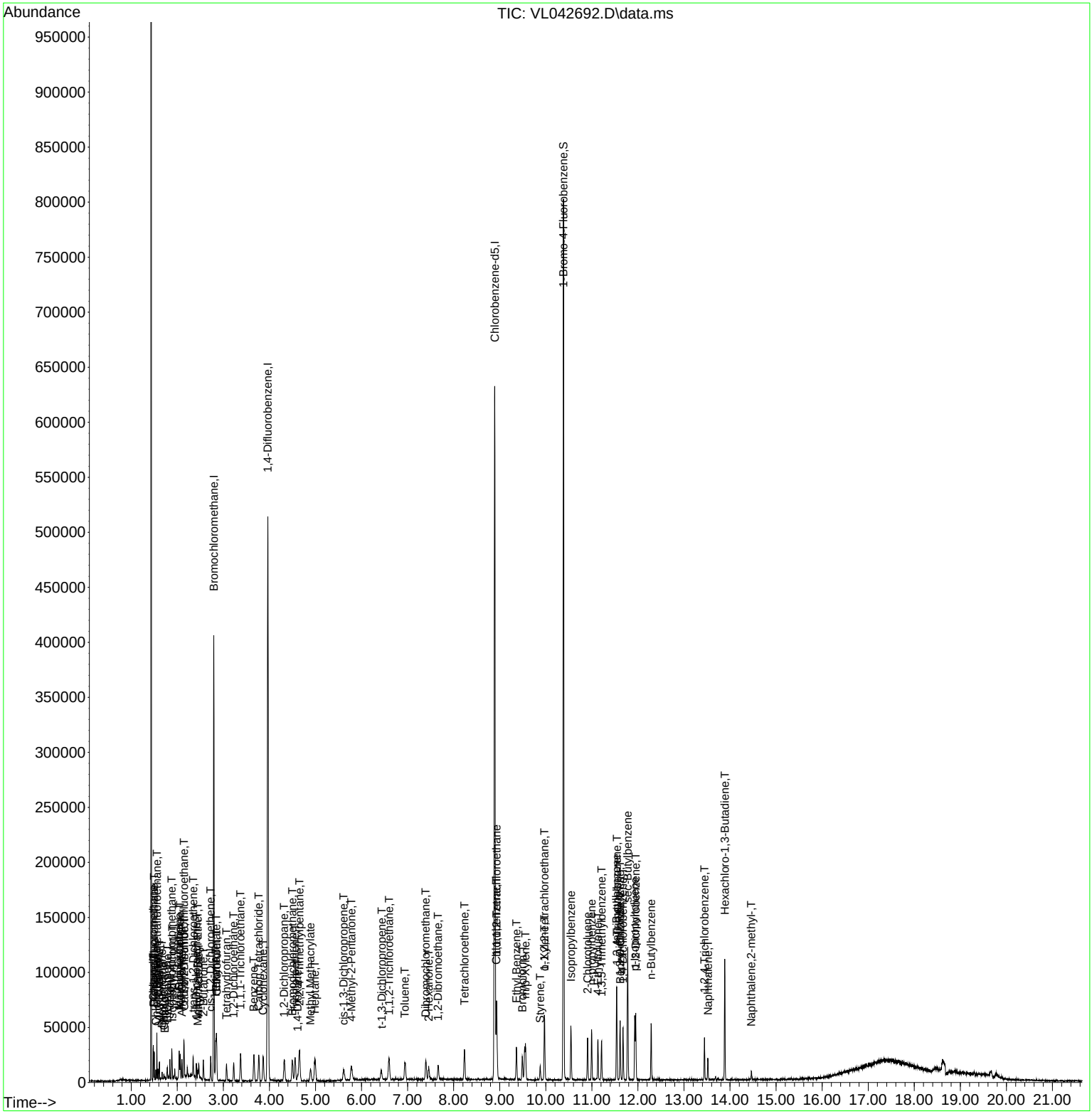
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042692.D
Acq On : 02 Jul 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:27:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042694.D
Acq On : 02 Jul 2025 11:06
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:29:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	116450	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	283981	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	249164	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	183435	9.571	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.700%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.583	62	199	0.041	ppbv	# 70
32) 1,1,1-Trichloroethane	3.382	97	819m	0.039	ppbv	
35) Carbon Tetrachloride	3.777	117	683m	0.035	ppbv	
38) Trichloroethene	4.577	130	367m	0.030	ppbv	
52) Tetrachloroethene	8.241	164	270m	0.028	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.972	83	706m	0.031	ppbv	

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

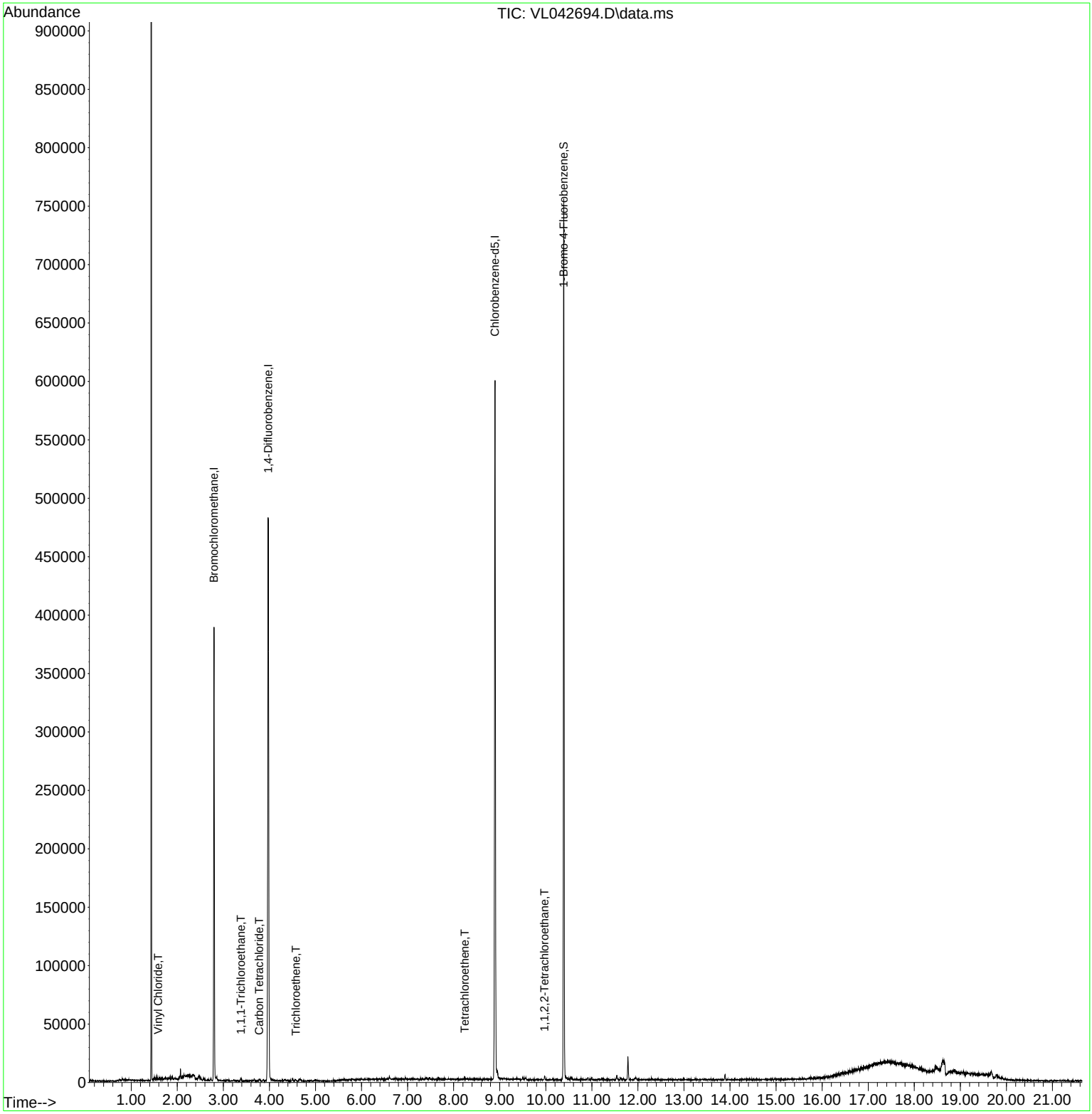
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042694.D
Acq On : 02 Jul 2025 11:06
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:29:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042695.D
Acq On : 02 Jul 2025 11:39
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:29:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	117105	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	296435	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	265053	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	209248	10.264	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	172151	14.041	ppbv	98
3) Chlorodifluoromethane	1.476	51	256009	13.966	ppbv	100
4) Chloromethane	1.534	50	67083	13.951	ppbv	95
5) Vinyl Chloride	1.583	62	61102	12.642	ppbv	100
6) Bromomethane	1.670	94	29264	13.554	ppbv	98
7) Chloroethane	1.706	64	25330	13.649	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	140342	13.817	ppbv	100
9) Propene	1.486	41	97807	14.259	ppbv	100
10) Heptane	4.991	43	308403	16.567	ppbv	99
11) Trichlorofluoromethane	1.881	101	180499	13.964	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	144195	14.093	ppbv	99
13) Ethanol	1.725	45	6502	9.979	ppbv	96
14) Bromoethene	1.783	108	50816	14.250	ppbv	99
15) Acetone	1.838	43	145775	12.551	ppbv	98
16) 1,3-Butadiene	1.612	39	72281	13.505	ppbv	100
17) tert-Butyl alcohol	2.042	59	158067	13.951	ppbv	99
18) 1,1-Dichloroethene	2.036	96	62555	13.761	ppbv	90
19) Isopropyl Alcohol	1.887	45	92196	13.811	ppbv #	1
20) Methylene Chloride	2.065	84	55096	12.405	ppbv	99
21) Allyl Chloride	2.101	41	119161	14.709	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	70815	14.302	ppbv	93
23) Vinyl Acetate	2.466	43	292863	15.582	ppbv	99
24) 1,1-Dichloroethane	2.411	63	143437	14.015	ppbv	99
25) Ethyl Acetate	2.839	43	532134	15.146	ppbv	99
26) Hexane	2.832	57	230010	15.692	ppbv	97
27) Carbon Disulfide	2.152	76	174309	14.583	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	79095	13.188	ppbv	98
29) Chloroform	2.855	83	311665	14.076	ppbv	97
30) Cyclohexane	3.865	84	182243	16.454	ppbv	97
31) cis-1,2-Dichloroethene	2.725	61	214573	15.381	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	288461	13.633	ppbv	99
34) 2-Butanone	2.560	43	349225	14.884	ppbv	100
35) Carbon Tetrachloride	3.771	117	289865	14.098	ppbv	98
36) Benzene	3.664	78	446618	14.948	ppbv	99
37) 1,2-Dichloroethane	3.224	62	227106	14.313	ppbv	100
38) Trichloroethene	4.561	130	180970	14.018	ppbv	95
39) 1,2-Dichloropropane	4.321	63	168680	14.469	ppbv	95
40) 1,4-Dioxane	4.593	88	69208m	15.450	ppbv	
41) Tetrahydrofuran	3.059	42	198055	16.565	ppbv	98
42) Bromodichloromethane	4.499	83	332896	14.812	ppbv	98
43) Methyl Methacrylate	4.891	69	170155	17.734	ppbv	98
44) 2,2,4-Trimethylpentane	4.651	57	787806	15.802	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	179598	17.811	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042695.D
Acq On : 02 Jul 2025 11:39
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:29:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.612	75	236433	16.994	ppbv		98
47) 1,1,2-Trichloroethane	6.593	97	174366	15.194	ppbv		94
48) Dibromochloromethane	7.399	129	264716	15.064	ppbv		98
49) Bromoform	9.493	173	233294	15.371	ppbv		99
50) 4-Methyl-2-Pentanone	5.761	43	462742	16.873	ppbv		99
51) 2-Hexanone	7.448	43	373010	18.619	ppbv	#	100
52) Tetrachloroethene	8.234	164	145442	14.514	ppbv		93
53) Toluene	6.946	91	492164	17.643	ppbv		100
54) 1,2-Dibromoethane	7.664	107	245738	15.345	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.933	131	200564	13.994	ppbv		98
57) Chlorobenzene	8.933	112	370383	13.928	ppbv		97
58) Ethyl Benzene	9.364	91	667210	17.407	ppbv		100
59) m/p-Xylene	9.561	91	1079169m	33.596	ppbv		
60) o-Xylene	9.972	91	528391	16.730	ppbv		98
61) Styrene	9.878	104	237027	19.104	ppbv		100
62) Isopropylbenzene	10.548	105	768857	16.128	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.972	83	331699	13.638	ppbv		98
64) n-propylbenzene	10.998	120	206336	16.907	ppbv		96
65) tert-Butylbenzene	11.539	119	650964	15.954	ppbv		100
66) Benzyl Chloride	11.623	91	72252	18.276	ppbv		100
67) sec-Butylbenzene	11.775	105	947810	15.163	ppbv		99
69) p-Isopropyltoluene	11.934	119	788083	15.841	ppbv		100
70) n-Butylbenzene	12.286	91	823159	16.424	ppbv		100
71) 2-Chlorotoluene	10.908	91	590171	16.735	ppbv		99
72) 4-Ethyltoluene	11.134	105	656169	17.026	ppbv		100
73) 1,3,5-Trimethylbenzene	11.212	105	536306	16.506	ppbv		99
74) 1,2,4-Trimethylbenzene	11.545	105	572169	15.437	ppbv		95
75) 1,3-Dichlorobenzene	11.616	146	373171	14.350	ppbv		99
76) 1,4-Dichlorobenzene	11.678	146	371536	15.054	ppbv		99
77) 1,2-Dichlorobenzene	11.956	146	356431	13.568	ppbv		99
78) Hexachloro-1,3-Butadiene	13.885	225	249100	12.174	ppbv		99
79) Naphthalene	13.520	128	583427	18.988	ppbv		99
80) Naphthalene,2-methyl-	14.461	142	289438	22.526	ppbv		99
81) 1,2,4-Trichlorobenzene	13.445	180	293572	16.284	ppbv		99

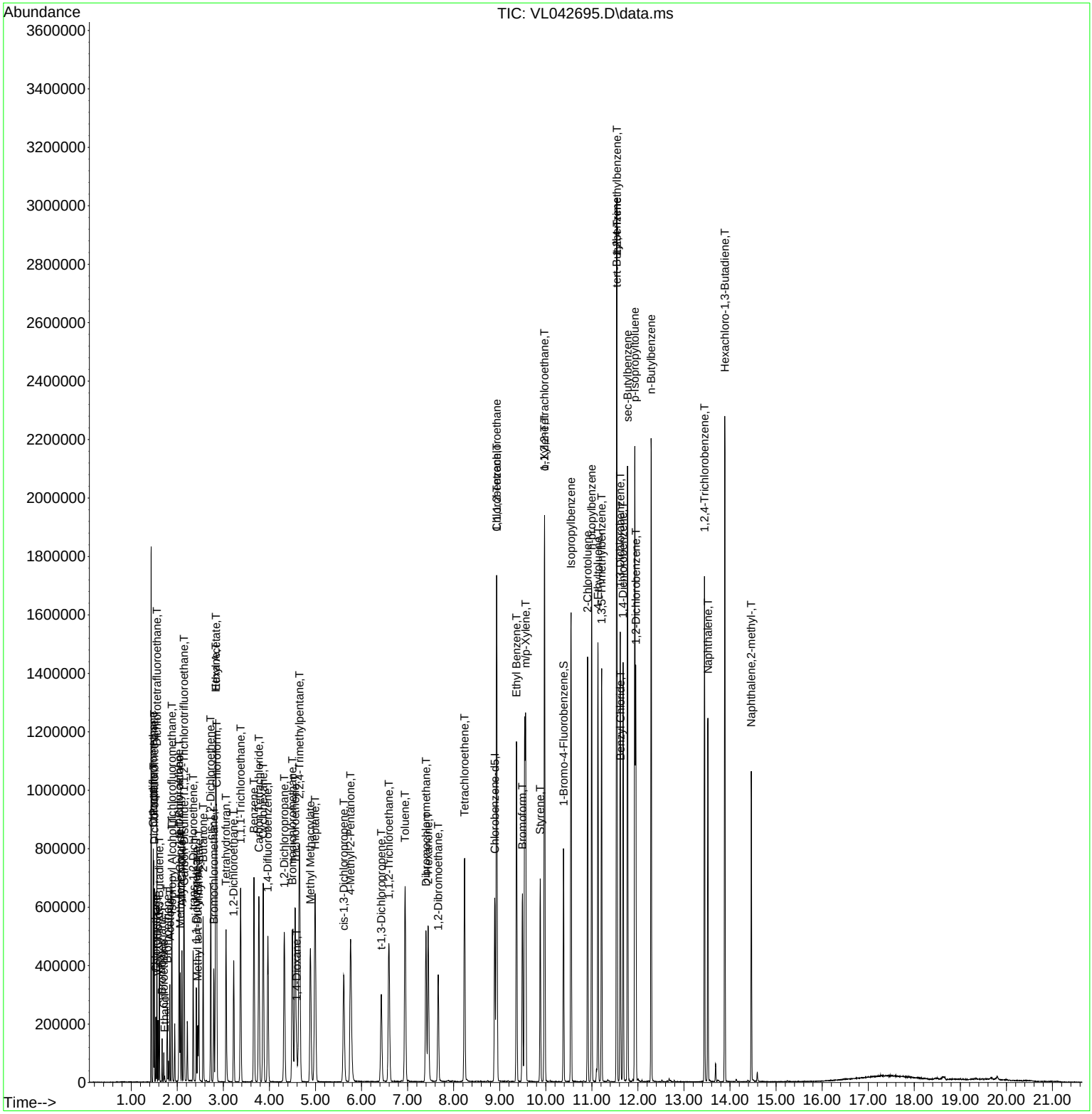
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042695.D
Acq On : 02 Jul 2025 11:39
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:29:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042696.D
Acq On : 02 Jul 2025 12:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:30:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	118499	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	296801	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	254532	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	189972	9.703	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.000%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.583	62	582	0.119	ppbv #	84
32) 1,1,1-Trichloroethane	3.379	97	2303m	0.108	ppbv	
35) Carbon Tetrachloride	3.774	117	2203m	0.107	ppbv	
38) Trichloroethene	4.567	130	1645m	0.127	ppbv	
52) Tetrachloroethene	8.241	164	1191	0.119	ppbv #	61
54) 1,2-Dibromoethane	7.665	107	1652	0.103	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	2556m	0.109	ppbv	
79) Naphthalene	13.520	128	1818m	0.062	ppbv	

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

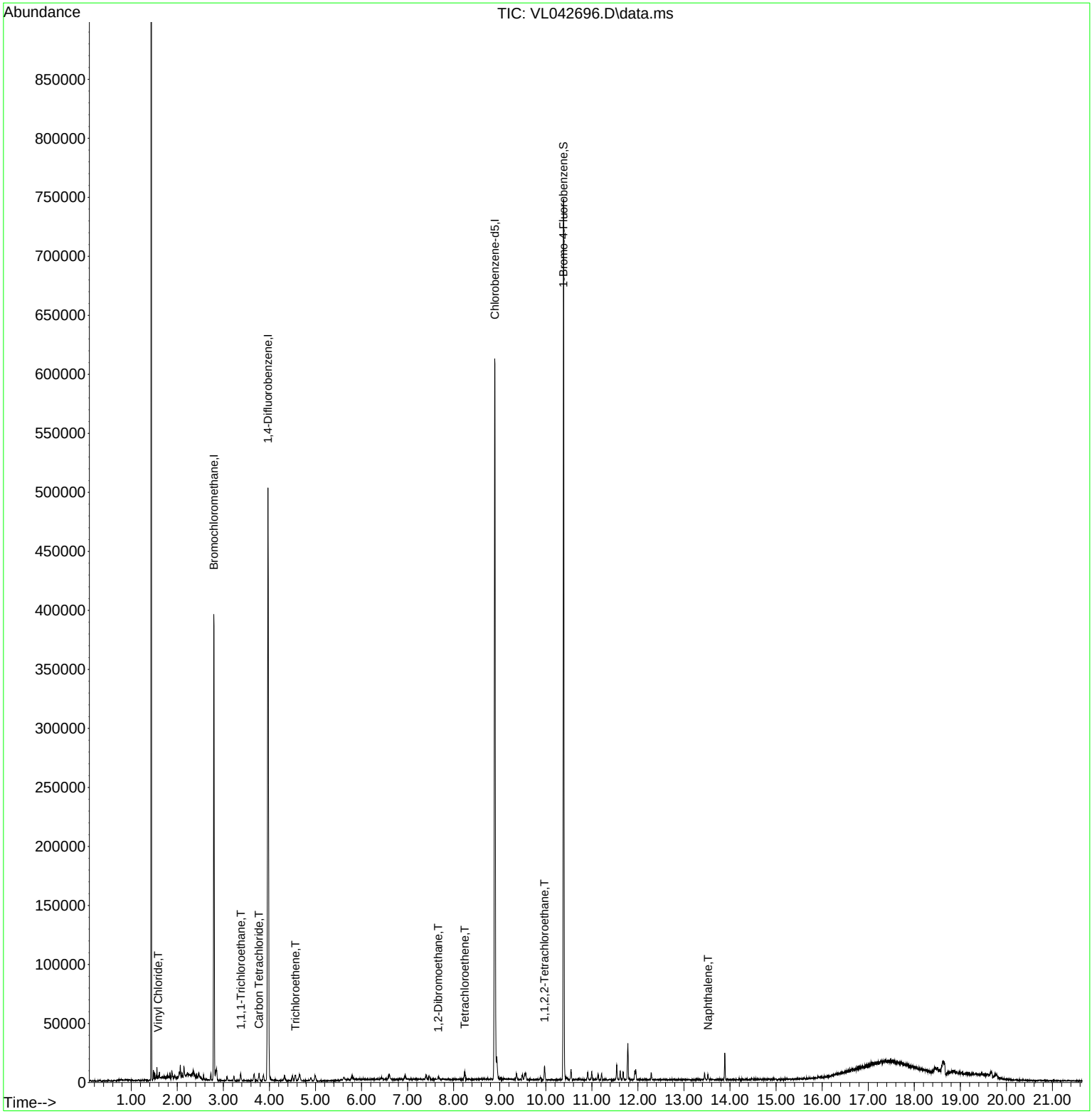
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042696.D
Acq On : 02 Jul 2025 12:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:30:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042697.D
Acq On : 02 Jul 2025 13:08
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:52:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:48:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070225

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	123303	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	310329	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	276453	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	216163	10.166	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	116554	9.029	ppbv	99
3) Chlorodifluoromethane	1.479	51	174306	9.031	ppbv	100
4) Chloromethane	1.538	50	43699	8.631	ppbv	100
5) Vinyl Chloride	1.586	62	40398	7.938	ppbv	99
6) Bromomethane	1.674	94	19910	8.758	ppbv	97
7) Chloroethane	1.709	64	15991	8.184	ppbv	91
8) Dichlorotetrafluoroethane	1.560	85	93055	8.701	ppbv	99
9) Propene	1.486	41	65538	9.074	ppbv	100
10) Heptane	4.998	43	205783	10.492	ppbv	99
11) Trichlorofluoromethane	1.884	101	123146	9.048	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	96871	8.992	ppbv	99
13) Ethanol	1.725	45	5367	7.701	ppbv	97
14) Bromoethene	1.787	108	33744	8.987	ppbv	99
15) Acetone	1.842	43	96454	7.887	ppbv	99
16) 1,3-Butadiene	1.612	39	48098	8.535	ppbv	100
17) tert-Butyl alcohol	2.046	59	111736	9.366	ppbv	100
18) 1,1-Dichloroethene	2.039	96	41593	8.690	ppbv	89
19) Isopropyl Alcohol	1.891	45	62969	8.958	ppbv #	1
20) Methylene Chloride	2.069	84	36270	7.756	ppbv	94
21) Allyl Chloride	2.101	41	80005	9.379	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	47456	9.102	ppbv	91
23) Vinyl Acetate	2.470	43	223198	11.278	ppbv	98
24) 1,1-Dichloroethane	2.415	63	93881	8.712	ppbv	99
25) Ethyl Acetate	2.842	43	357668	9.669	ppbv	100
26) Hexane	2.836	57	153642	9.955	ppbv	98
27) Carbon Disulfide	2.156	76	112533	8.941	ppbv	100
28) Methyl tert-Butyl Ether	2.450	73	63610	10.073	ppbv	97
29) Chloroform	2.858	83	209878	9.003	ppbv	100
30) Cyclohexane	3.871	84	119433	10.263	ppbv	98
31) cis-1,2-Dichloroethene	2.729	61	140575	9.570	ppbv	92
32) 1,1,1-Trichloroethane	3.383	97	194566	8.699	ppbv	99
34) 2-Butanone	2.564	43	231069	9.408	ppbv	99
35) Carbon Tetrachloride	3.774	117	190226	8.859	ppbv	100
36) Benzene	3.671	78	297230	9.503	ppbv	97
37) 1,2-Dichloroethane	3.231	62	149307	8.988	ppbv	100
38) Trichloroethene	4.564	130	117341	8.684	ppbv	92
39) 1,2-Dichloropropane	4.328	63	111969	9.179	ppbv	96
40) 1,4-Dioxane	4.600	88	49078	10.383	ppbv #	98
41) Tetrahydrofuran	3.062	42	128395	10.258	ppbv	98
42) Bromodichloromethane	4.503	83	219302	9.321	ppbv	92
43) Methyl Methacrylate	4.901	69	108319	10.769	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	531839	10.122	ppbv	100
45) t-1,3-Dichloropropene	6.438	75	109312	10.353	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042697.D
Acq On : 02 Jul 2025 13:08
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:52:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:48:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070225

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	146557	10.060	ppbv	99
47) 1,1,2-Trichloroethane	6.600	97	115019	9.574	ppbv	96
48) Dibromochloromethane	7.406	129	171297	9.311	ppbv	98
49) Bromoform	9.500	173	149108	9.384	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	300056	10.433	ppbv	99
51) 2-Hexanone	7.451	43	236851	11.319	ppbv	98
52) Tetrachloroethene	8.241	164	96485	9.229	ppbv	98
53) Toluene	6.953	91	319495	10.940	ppbv	99
54) 1,2-Dibromoethane	7.671	107	159700	9.536	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.937	131	132435	8.859	ppbv	98
57) Chlorobenzene	8.937	112	247805	8.935	ppbv	98
58) Ethyl Benzene	9.370	91	433115	10.833	ppbv	97
59) m/p-Xylene	9.565	91	711646m	21.251	ppbv	
60) o-Xylene	9.979	91	349746	10.617	ppbv	98
61) Styrene	9.885	104	145395	11.235	ppbv	99
62) Isopropylbenzene	10.552	105	507890	10.215	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	230175	9.073	ppbv	98
64) n-propylbenzene	10.998	120	134923	10.599	ppbv	99
65) tert-Butylbenzene	11.542	119	438705	10.308	ppbv	100
66) Benzyl Chloride	11.626	91	42290	10.256	ppbv	99
67) sec-Butylbenzene	11.778	105	643534	9.871	ppbv	100
69) p-Isopropyltoluene	11.937	119	525986	10.137	ppbv	100
70) n-Butylbenzene	12.290	91	546708	10.458	ppbv	100
71) 2-Chlorotoluene	10.914	91	385485	10.480	ppbv	99
72) 4-Ethyltoluene	11.134	105	432340	10.756	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	360290	10.631	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	389736	10.081	ppbv	95
75) 1,3-Dichlorobenzene	11.620	146	249086	9.183	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	243912	9.475	ppbv	100
77) 1,2-Dichlorobenzene	11.956	146	238854	8.718	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	164880	7.726	ppbv	100
79) Naphthalene	13.523	128	362200	11.225	ppbv	98
80) Naphthalene,2-methyl-	14.465	142	141019	10.522	ppbv	99
81) 1,2,4-Trichlorobenzene	13.449	180	184782	9.827	ppbv	99

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

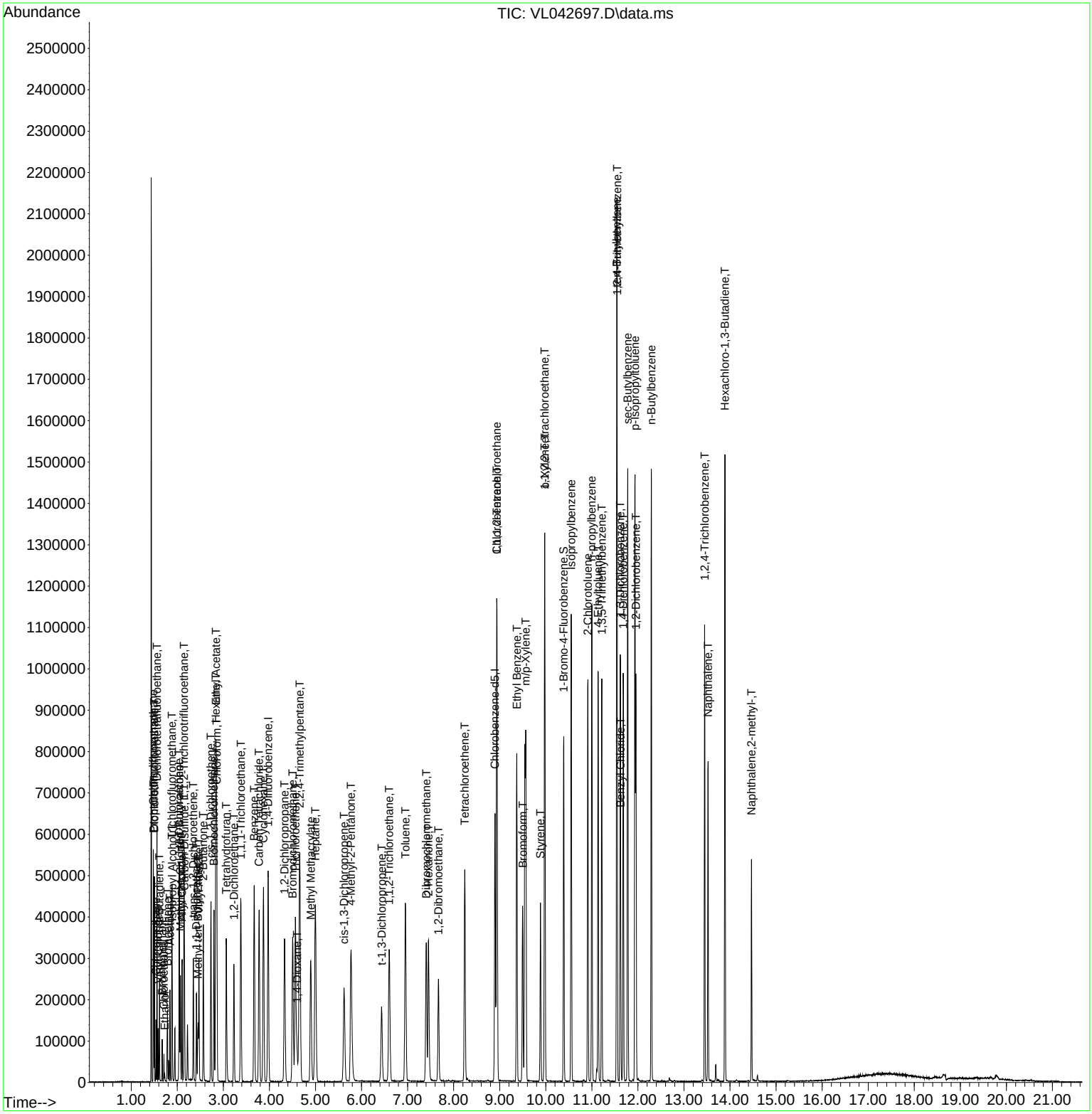
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042697.D
Acq On : 02 Jul 2025 13:08
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 01:52:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:48:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070225

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042697.D
Acq On : 02 Jul 2025 13:08
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070225

Quant Time: Jul 03 01:52:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 03 01:48:28 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	101	0.00
2	T	Dichlorodifluoromethane	1.047	0.945	9.7	103	0.00
3		Chlorodifluoromethane	1.565	1.414	9.6	103	0.00
4		Chloromethane	0.411	0.354	13.9	97	0.00
5	T	Vinyl Chloride	0.413	0.328	20.6	102	0.00
6	T	Bromomethane	0.184	0.161	12.5	108	0.00
7		Chloroethane	0.158	0.130	17.7	98	0.00
8	T	Dichlorotetrafluoroethane	0.867	0.755	12.9	103	0.00
9	T	Propene	0.586	0.532	9.2	102	0.00
10	T	Heptane	1.591	1.669	-4.9	102	0.00
11	T	Trichlorofluoromethane	1.104	0.999	9.5	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	0.874	0.786	10.1	102	0.00
13		Ethanol	0.057	0.044#	22.8	115	0.00
14	T	Bromoethene	0.305	0.274	10.2	103	0.00
15	T	Acetone	0.992	0.782	21.2	104	0.00
16	T	1,3-Butadiene	0.457	0.390	14.7	102	0.00
17		tert-Butyl alcohol	0.968	0.906	6.4	103	0.00
18	T	1,1-Dichloroethene	0.388	0.337	13.1	102	0.00
19	T	Isopropyl Alcohol	0.570	0.511	10.4	104	0.00
20	T	Methylene Chloride	0.379	0.294	22.4	105	0.00
21	T	Allyl Chloride	0.692	0.649	6.2	104	0.00
22	T	trans-1,2-Dichloroethene	0.423	0.385	9.0	105	0.00
23	T	Vinyl Acetate	1.605	1.810	-12.8	103	0.00
24	T	1,1-Dichloroethane	0.874	0.761	12.9	100	0.00
25	T	Ethyl Acetate	3.000	2.901	3.3	101	0.00
26	T	Hexane	1.252	1.246	0.5	103	0.00
27	T	Carbon Disulfide	1.021	0.913	10.6	99	0.00
28	T	Methyl tert-Butyl Ether	0.512	0.516	-0.8	102	0.00
29	T	Chloroform	1.891	1.702	10.0	103	0.00
30	T	Cyclohexane	0.944	0.969	-2.6	103	0.00
31	T	cis-1,2-Dichloroethene	1.191	1.140	4.3	101	0.00
32	T	1,1,1-Trichloroethane	1.814	1.578	13.0	103	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
34	T	2-Butanone	0.791	0.745	5.8	102	0.00
35	T	Carbon Tetrachloride	0.692	0.613	11.4	100	0.00
36	T	Benzene	1.008	0.958	5.0	101	0.00
37	T	1,2-Dichloroethane	0.535	0.481	10.1	99	0.00
38	T	Trichloroethene	0.435	0.378	13.1	101	0.00
39	T	1,2-Dichloropropane	0.393	0.361	8.1	102	0.00
40	T	1,4-Dioxane	0.152	0.158	-3.9	104	0.00
41	T	Tetrahydrofuran	0.403	0.414	-2.7	101	0.00
42	T	Bromodichloromethane	0.758	0.707	6.7	100	0.00
43		Methyl Methacrylate	0.324	0.349	-7.7	100	0.00
44	T	2,2,4-Trimethylpentane	1.693	1.714	-1.2	102	0.00
45	T	t-1,3-Dichloropropene	0.340	0.352	-3.5	96	0.00
46	T	cis-1,3-Dichloropropene	0.469	0.472	-0.6	97	0.00
47	T	1,1,2-Trichloroethane	0.387	0.371	4.1	102	0.00
48	T	Dibromochloromethane	0.593	0.552	6.9	98	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042697.D
Acq On : 02 Jul 2025 13:08
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070225

Quant Time: Jul 03 01:52:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 03 01:48:28 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	0.512	0.480	6.3	96	0.00
50	T	4-Methyl-2-Pentanone	0.927	0.967	-4.3	98	0.00
51	T	2-Hexanone	0.674	0.763	-13.2	98	0.00
52	T	Tetrachloroethene	0.337	0.311	7.7	101	0.00
53	T	Toluene	0.941	1.030	-9.5	101	0.00
54	T	1,2-Dibromoethane	0.540	0.515	4.6	99	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
56		1,1,1,2-Tetrachloroethane	0.541	0.479	11.5	101	0.00
57	T	Chlorobenzene	1.003	0.896	10.7	100	0.00
58	T	Ethyl Benzene	1.446	1.567	-8.4	99	0.00
59	T	m/p-Xylene	1.211	1.287	-6.3	99	0.02
60	T	o-Xylene	1.192	1.265	-6.1	100	0.00
61	T	Styrene	0.468	0.526	-12.4	97	0.00
62		Isopropylbenzene	1.799	1.837	-2.1	100	0.00
63	T	1,1,2,2-Tetrachloroethane	0.918	0.833	9.3	102	0.00
64		n-propylbenzene	0.460	0.488	-6.1	101	0.00
65		tert-Butylbenzene	1.539	1.587	-3.1	100	0.00
66	T	Benzyl Chloride	0.149	0.153	-2.7	96	0.00
67		sec-Butylbenzene	2.358	2.328	1.3	101	0.00
68	S	1-Bromo-4-Fluorobenzene	0.769	0.782	-1.7	100	0.00
69		p-Isopropyltoluene	1.877	1.903	-1.4	100	0.00
70		n-Butylbenzene	1.891	1.978	-4.6	100	0.00
71		2-Chlorotoluene	1.331	1.394	-4.7	100	0.00
72	T	4-Ethyltoluene	1.454	1.564	-7.6	100	0.00
73	T	1,3,5-Trimethylbenzene	1.226	1.303	-6.3	101	0.00
74	T	1,2,4-Trimethylbenzene	1.398	1.410	-0.9	99	0.00
75	T	1,3-Dichlorobenzene	0.981	0.901	8.2	100	0.00
76	T	1,4-Dichlorobenzene	0.931	0.882	5.3	99	0.00
77	T	1,2-Dichlorobenzene	0.991	0.864	12.8	100	0.00
78	T	Hexachloro-1,3-Butadiene	0.772	0.596	22.8	98	0.00
79	T	Naphthalene	1.167	1.310	-12.3	95	0.00
80	T	Naphthalene,2-methyl-	0.485	0.510	-5.2	83	0.00
81	T	1,2,4-Trichlorobenzene	0.680	0.668	1.8	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

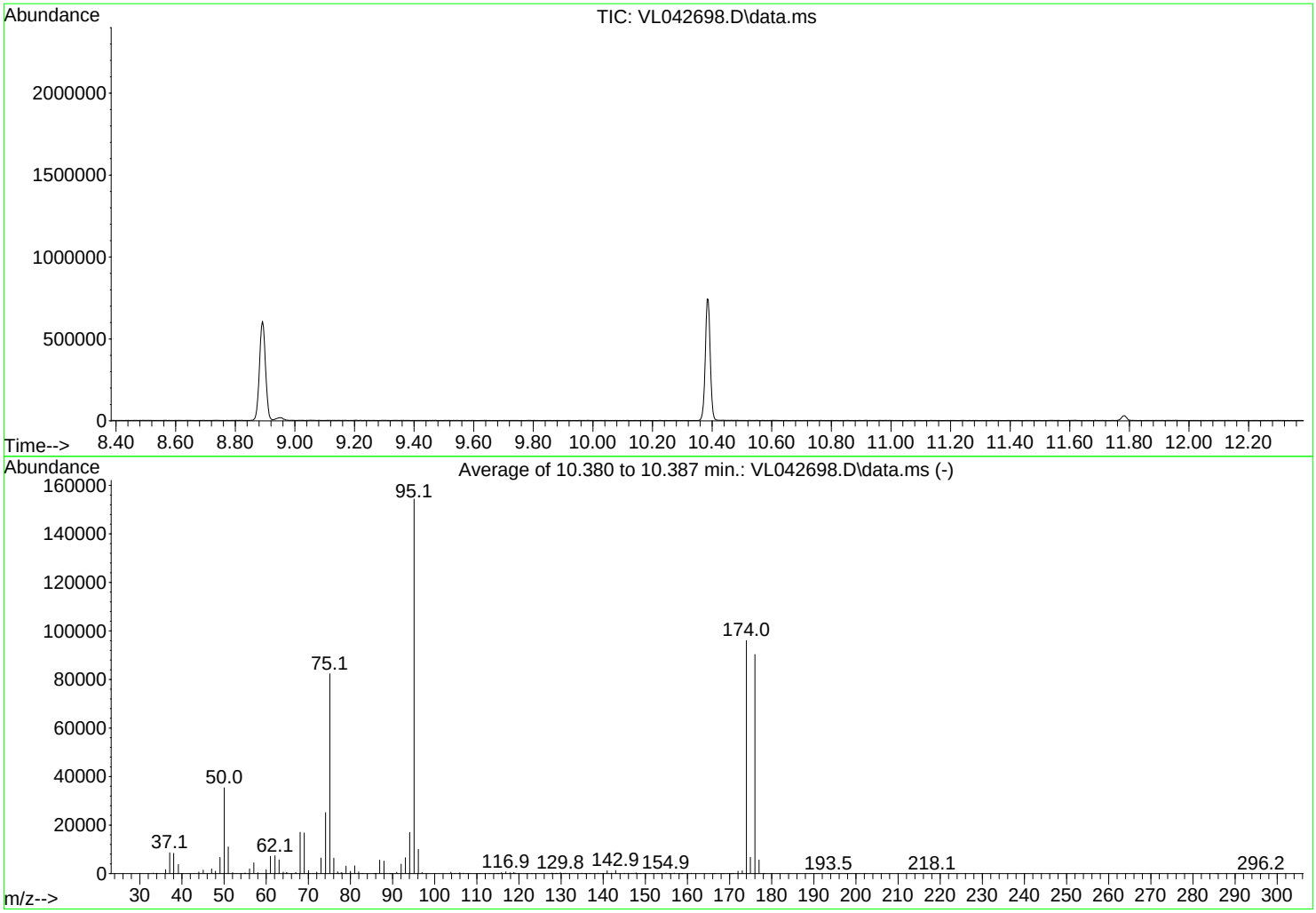
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042698.D
Acq On : 03 Jul 2025 07:53
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Thu Jul 03 01:50:16 2025



AutoFind: Scans 3180, 3181, 3182; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.9	35379	PASS
75	95	30	66	53.3	82365	PASS
95	95	100	100	100.0	154389	PASS
96	95	5	9	6.5	10039	PASS
173	174	0.00	2	1.2	1198	PASS
174	95	50	120	62.2	96059	PASS
175	174	4	9	7.0	6756	PASS
176	174	93	101	94.0	90304	PASS
177	176	5	9	6.3	5645	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042699.D
Acq On : 03 Jul 2025 08:36
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 04 03:52:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/07/2025
Supervised By :Mahesh Dadoda 07/07/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	121789	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	298981	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	266456	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	209470	10.221	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	113451	8.898	ppbv	97
3) Chlorodifluoromethane	1.479	51	175020	9.180	ppbv	99
4) Chloromethane	1.538	50	44548	8.908	ppbv	96
5) Vinyl Chloride	1.583	62	39905	7.939	ppbv	99
6) Bromomethane	1.674	94	19554	8.708	ppbv	93
7) Chloroethane	1.709	64	16555	8.578	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	91155	8.629	ppbv	98
9) Propene	1.486	41	63173	8.856	ppbv	100
10) Heptane	4.998	43	203738	10.517	ppbv	98
11) Trichlorofluoromethane	1.884	101	121123	9.010	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	96957	9.112	ppbv	98
13) Ethanol	1.725	45	4728	6.868	ppbv	90
14) Bromoethene	1.787	108	33081	8.920	ppbv	98
15) Acetone	1.842	43	97496	8.071	ppbv	99
16) 1,3-Butadiene	1.612	39	47889	8.604	ppbv	100
17) tert-Butyl alcohol	2.046	59	110624	9.388	ppbv	98
18) 1,1-Dichloroethene	2.039	96	41172	8.709	ppbv	100
19) Isopropyl Alcohol	1.890	45	61393	8.843	ppbv #	1
20) Methylene Chloride	2.068	84	36371	7.874	ppbv	99
21) Allyl Chloride	2.101	41	78148	9.275	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	46791	9.086	ppbv	92
23) Vinyl Acetate	2.470	43	213218	10.908	ppbv	99
24) 1,1-Dichloroethane	2.415	63	94888	8.915	ppbv	99
25) Ethyl Acetate	2.842	43	362702	9.927	ppbv	100
26) Hexane	2.836	57	153787	10.088	ppbv	99
27) Carbon Disulfide	2.156	76	113800	9.154	ppbv	100
28) Methyl tert-Butyl Ether	2.447	73	63058	10.110	ppbv	99
29) Chloroform	2.858	83	211103	9.168	ppbv	99
30) Cyclohexane	3.868	84	119480	10.395	ppbv	98
31) cis-1,2-Dichloroethene	2.729	61	140617	9.692	ppbv	98
32) 1,1,1-Trichloroethane	3.379	97	192929	8.733	ppbv	99
34) 2-Butanone	2.564	43	231566	9.786	ppbv	100
35) Carbon Tetrachloride	3.774	117	190681	9.217	ppbv	99
36) Benzene	3.667	78	298352	9.901	ppbv	96
37) 1,2-Dichloroethane	3.227	62	152332	9.519	ppbv	99
38) Trichloroethene	4.567	130	115883	8.902	ppbv	94
39) 1,2-Dichloropropane	4.328	63	113900	9.692	ppbv	99
40) 1,4-Dioxane	4.596	88	46509	10.213	ppbv #	95
41) Tetrahydrofuran	3.062	42	130187	10.796	ppbv	98
42) Bromodichloromethane	4.506	83	221829	9.786	ppbv	97
43) Methyl Methacrylate	4.894	69	106229	10.962	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	530602	10.482	ppbv	100
45) t-1,3-Dichloropropene	6.431	75	107246	10.543	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042699.D
Acq On : 03 Jul 2025 08:36
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 04 03:52:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/07/2025
Supervised By :Mahesh Dadoda 07/07/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	147452	10.506	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	113558	9.811	ppbv	96
48) Dibromochloromethane	7.406	129	175019	9.875	ppbv	99
49) Bromoform	9.497	173	149140	9.743	ppbv	98
50) 4-Methyl-2-Pentanone	5.768	43	304956	11.006	ppbv	99
51) 2-Hexanone	7.451	43	240078	11.908	ppbv	98
52) Tetrachloroethene	8.237	164	95193	9.451	ppbv	94
53) Toluene	6.953	91	313922	11.157	ppbv	99
54) 1,2-Dibromoethane	7.668	107	161254	9.994	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.937	131	135428	9.400	ppbv	98
57) Chlorobenzene	8.937	112	249410	9.330	ppbv	98
58) Ethyl Benzene	9.367	91	430818	11.180	ppbv	98
59) m/p-Xylene	9.565	91	709280m	21.975	ppbv	
60) o-Xylene	9.976	91	350917	11.052	ppbv	99
61) Styrene	9.882	104	145889	11.697	ppbv	99
62) Isopropylbenzene	10.552	105	512377	10.692	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	231326	9.461	ppbv	98
64) n-propylbenzene	10.998	120	134154	10.934	ppbv	99
65) tert-Butylbenzene	11.542	119	439909	10.725	ppbv	99
66) Benzyl Chloride	11.626	91	42511	10.697	ppbv	99
67) sec-Butylbenzene	11.778	105	642441	10.223	ppbv	100
69) p-Isopropyltoluene	11.937	119	528482	10.567	ppbv	100
70) n-Butylbenzene	12.290	91	550637	10.928	ppbv	99
71) 2-Chlorotoluene	10.911	91	384447	10.844	ppbv	99
72) 4-Ethyltoluene	11.134	105	431686	11.142	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	357192	10.936	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	390891	10.490	ppbv	94
75) 1,3-Dichlorobenzene	11.617	146	247836	9.480	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	247356	9.970	ppbv	100
77) 1,2-Dichlorobenzene	11.956	146	242468	9.181	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	168191	8.177	ppbv	100
79) Naphthalene	13.523	128	359527	11.560	ppbv	98
80) Naphthalene,2-methyl-	14.465	142	142000	10.993	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	184786	10.196	ppbv	99

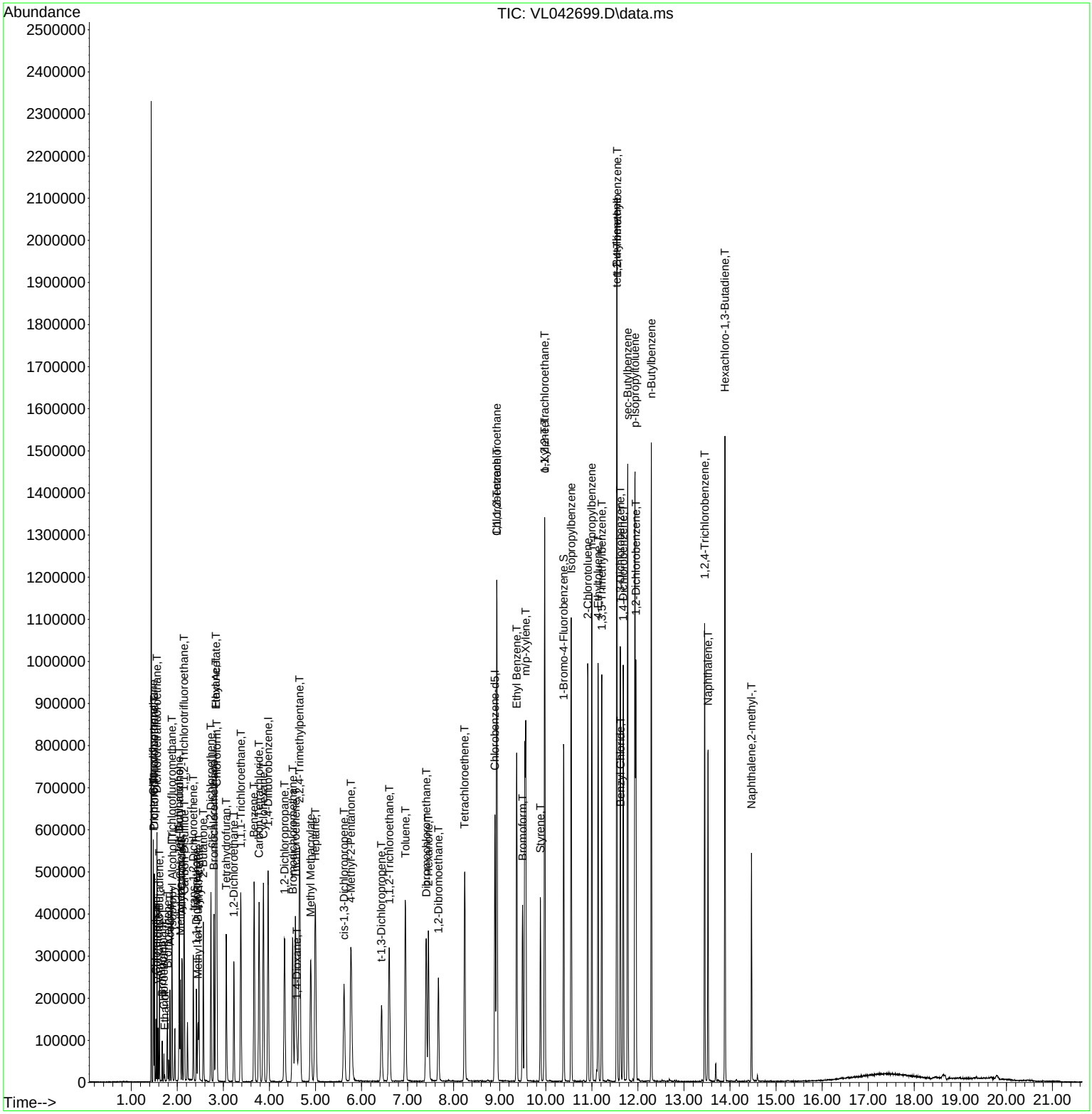
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042699.D
Acq On : 03 Jul 2025 08:36
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 04 03:52:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/07/2025
Supervised By :Mahesh Dadoda 07/07/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042699.D
Acq On : 03 Jul 2025 08:36
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Jul 04 03:52:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 03 01:50:16 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	100	0.00
2	T	Dichlorodifluoromethane	1.047	0.932	11.0	100	0.00
3		Chlorodifluoromethane	1.565	1.437	8.2	103	0.00
4		Chloromethane	0.411	0.366	10.9	99	0.00
5	T	Vinyl Chloride	0.413	0.328	20.6	100	0.00
6	T	Bromomethane	0.184	0.161	12.5	106	0.00
7		Chloroethane	0.158	0.136	13.9	101	0.00
8	T	Dichlorotetrafluoroethane	0.867	0.748	13.7	101	0.00
9	T	Propene	0.586	0.519	11.4	99	0.00
10	T	Heptane	1.591	1.673	-5.2	101	0.00
11	T	Trichlorofluoromethane	1.104	0.995	9.9	101	0.00
12	T	1,1,2-Trichlorotrifluoroeth	0.874	0.796	8.9	103	0.00
13		Ethanol	0.057	0.039#	31.6#	101	0.00
14	T	Bromoethene	0.305	0.272	10.8	101	0.00
15	T	Acetone	0.992	0.801	19.3	105	0.00
16	T	1,3-Butadiene	0.457	0.393	14.0	102	0.00
17		tert-Butyl alcohol	0.968	0.908	6.2	102	0.00
18	T	1,1-Dichloroethene	0.388	0.338	12.9	101	0.00
19	T	Isopropyl Alcohol	0.570	0.504	11.6	101	0.00
20	T	Methylene Chloride	0.379	0.299	21.1	105	0.00
21	T	Allyl Chloride	0.692	0.642	7.2	101	0.00
22	T	trans-1,2-Dichloroethene	0.423	0.384	9.2	104	0.00
23	T	Vinyl Acetate	1.605	1.751	-9.1	99	0.00
24	T	1,1-Dichloroethane	0.874	0.779	10.9	101	0.00
25	T	Ethyl Acetate	3.000	2.978	0.7	103	0.00
26	T	Hexane	1.252	1.263	-0.9	104	0.00
27	T	Carbon Disulfide	1.021	0.934	8.5	100	0.00
28	T	Methyl tert-Butyl Ether	0.512	0.518	-1.2	101	0.00
29	T	Chloroform	1.891	1.733	8.4	104	0.00
30	T	Cyclohexane	0.944	0.981	-3.9	103	0.00
31	T	cis-1,2-Dichloroethene	1.191	1.155	3.0	102	0.00
32	T	1,1,1-Trichloroethane	1.814	1.584	12.7	103	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
34	T	2-Butanone	0.791	0.775	2.0	102	0.00
35	T	Carbon Tetrachloride	0.692	0.638	7.8	101	0.00
36	T	Benzene	1.008	0.998	1.0	101	0.00
37	T	1,2-Dichloroethane	0.535	0.510	4.7	101	0.00
38	T	Trichloroethene	0.435	0.388	10.8	100	0.00
39	T	1,2-Dichloropropane	0.393	0.381	3.1	104	0.00
40	T	1,4-Dioxane	0.152	0.156	-2.6	98	0.00
41	T	Tetrahydrofuran	0.403	0.435	-7.9	102	0.00
42	T	Bromodichloromethane	0.758	0.742	2.1	101	0.00
43		Methyl Methacrylate	0.324	0.355	-9.6	98	0.00
44	T	2,2,4-Trimethylpentane	1.693	1.775	-4.8	102	0.00
45	T	t-1,3-Dichloropropene	0.340	0.359	-5.6	94	0.00
46	T	cis-1,3-Dichloropropene	0.469	0.493	-5.1	98	0.00
47	T	1,1,2-Trichloroethane	0.387	0.380	1.8	101	0.00
48	T	Dibromochloromethane	0.593	0.585	1.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042699.D
Acq On : 03 Jul 2025 08:36
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
LabSampleId : VSTDCCC010

Quant Time: Jul 04 03:52:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 03 01:50:16 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	0.512	0.499	2.5	96	0.00
50	T	4-Methyl-2-Pentanone	0.927	1.020	-10.0	100	0.00
51	T	2-Hexanone	0.674	0.803	-19.1	99	0.00
52	T	Tetrachloroethene	0.337	0.318	5.6	99	0.00
53	T	Toluene	0.941	1.050	-11.6	99	0.00
54	T	1,2-Dibromoethane	0.540	0.539	0.2	100	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
56		1,1,1,2-Tetrachloroethane	0.541	0.508	6.1	103	0.00
57	T	Chlorobenzene	1.003	0.936	6.7	101	0.00
58	T	Ethyl Benzene	1.446	1.617	-11.8	99	0.00
59	T	m/p-Xylene	1.211	1.331	-9.9	99	0.02
60	T	o-Xylene	1.192	1.317	-10.5	101	0.00
61	T	Styrene	0.468	0.548	-17.1	97	0.00
62		Isopropylbenzene	1.799	1.923	-6.9	101	0.00
63	T	1,1,2,2-Tetrachloroethane	0.918	0.868	5.4	103	0.00
64		n-propylbenzene	0.460	0.503	-9.3	100	0.00
65		tert-Butylbenzene	1.539	1.651	-7.3	101	0.00
66	T	Benzyl Chloride	0.149	0.160	-7.4	96	0.00
67		sec-Butylbenzene	2.358	2.411	-2.2	101	0.00
68	S	1-Bromo-4-Fluorobenzene	0.769	0.786	-2.2	97	0.00
69		p-Isopropyltoluene	1.877	1.983	-5.6	100	0.00
70		n-Butylbenzene	1.891	2.067	-9.3	101	0.00
71		2-Chlorotoluene	1.331	1.443	-8.4	100	0.00
72	T	4-Ethyltoluene	1.454	1.620	-11.4	100	0.00
73	T	1,3,5-Trimethylbenzene	1.226	1.341	-9.4	100	0.00
74	T	1,2,4-Trimethylbenzene	1.398	1.467	-4.9	100	0.00
75	T	1,3-Dichlorobenzene	0.981	0.930	5.2	99	0.00
76	T	1,4-Dichlorobenzene	0.931	0.928	0.3	101	0.00
77	T	1,2-Dichlorobenzene	0.991	0.910	8.2	102	0.00
78	T	Hexachloro-1,3-Butadiene	0.772	0.631	18.3	100	0.00
79	T	Naphthalene	1.167	1.349	-15.6	94	0.00
80	T	Naphthalene,2-methyl-	0.485	0.533	-9.9	83	0.00
81	T	1,2,4-Trichlorobenzene	0.680	0.693	-1.9	97	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\VL070325\
Data File : VL042700.D
Acq On : 03 Jul 2025 09:22
Operator : SY/MD
Sample : VL0703ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0703ABL01

Quant Time: Jul 04 03:54:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration

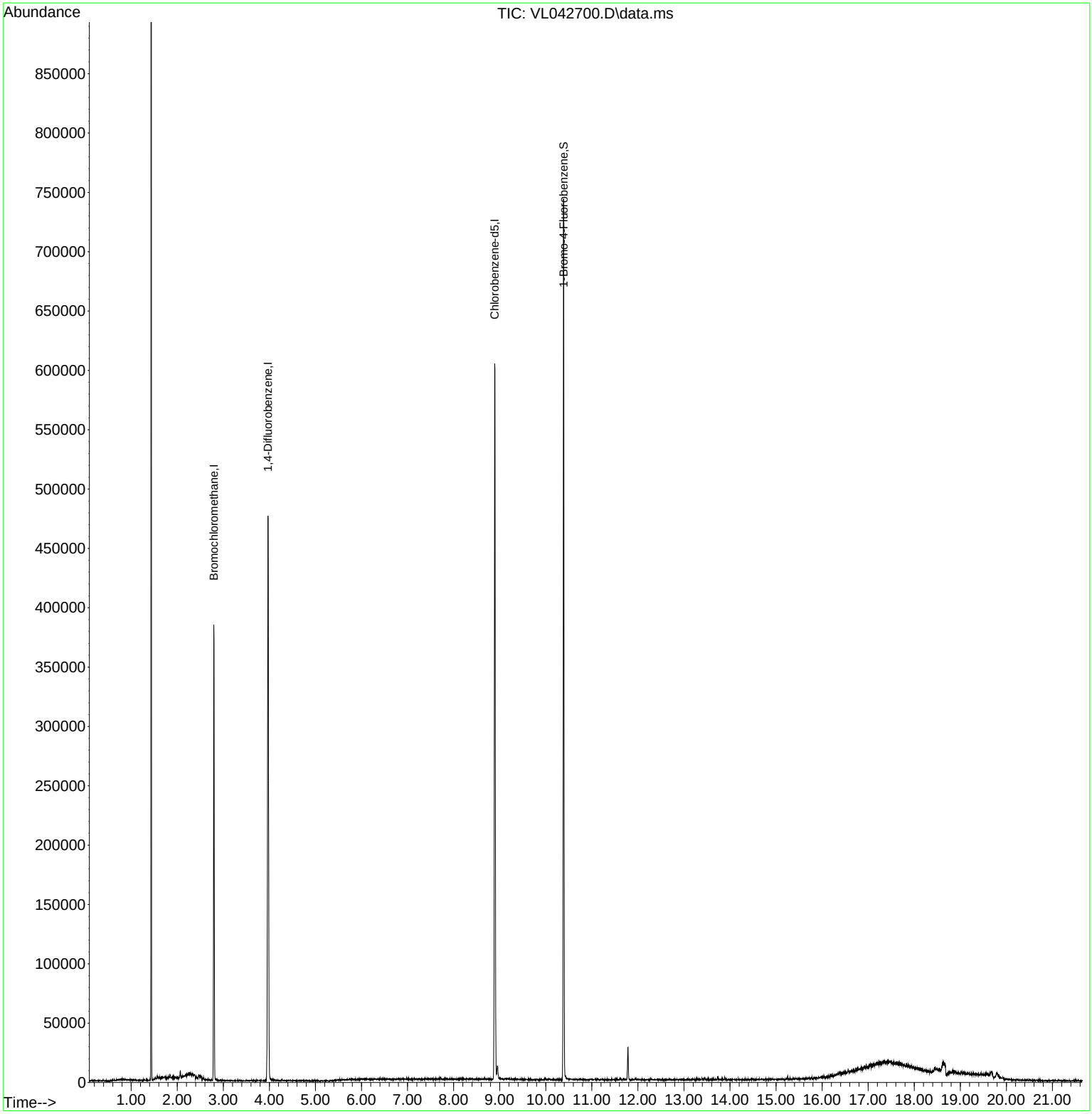
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.794	49	115394	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	287579	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	245420	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	184194	9.758	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.600%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042700.D
Acq On : 03 Jul 2025 09:22
Operator : SY/MD
Sample : VL0703ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0703ABL01

Quant Time: Jul 04 03:54:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042701.D
Acq On : 03 Jul 2025 10:05
Operator : SY/MD
Sample : VL0703ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 04 03:54:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0703ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/07/2025
Supervised By :Mahesh Dadoda 07/07/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	121904	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	294901	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	266088	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	208227	10.174	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	118439	9.280	ppbv	98
3) Chlorodifluoromethane	1.479	51	174243	9.131	ppbv	99
4) Chloromethane	1.538	50	45584	9.107	ppbv	100
5) Vinyl Chloride	1.583	62	40498	8.049	ppbv	98
6) Bromomethane	1.673	94	19965	8.883	ppbv	98
7) Chloroethane	1.709	64	16598	8.592	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	94456	8.933	ppbv	100
9) Propene	1.486	41	64144	8.983	ppbv	100
10) Heptane	4.997	43	207786	10.716	ppbv	99
11) Trichlorofluoromethane	1.884	101	123932	9.210	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.146	101	97162	9.122	ppbv	99
13) Ethanol	1.725	45	5316	7.715	ppbv	99
14) Bromoethene	1.787	108	34350	9.253	ppbv	97
15) Acetone	1.839	43	96711	7.999	ppbv	99
16) 1,3-Butadiene	1.612	39	47290	8.488	ppbv	99
17) tert-Butyl alcohol	2.046	59	112857	9.569	ppbv	98
18) 1,1-Dichloroethene	2.039	96	41585	8.788	ppbv	95
19) Isopropyl Alcohol	1.890	45	64365	9.262	ppbv	100
20) Methylene Chloride	2.068	84	35728	7.728	ppbv	98
21) Allyl Chloride	2.101	41	78262	9.280	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	46313	8.985	ppbv	97
23) Vinyl Acetate	2.470	43	204104	10.432	ppbv	99
24) 1,1-Dichloroethane	2.415	63	93450	8.772	ppbv	98
25) Ethyl Acetate	2.842	43	360682	9.862	ppbv	99
26) Hexane	2.835	57	158622	10.396	ppbv	95
27) Carbon Disulfide	2.156	76	116687	9.378	ppbv	98
28) Methyl tert-Butyl Ether	2.450	73	77286	12.379	ppbv	100
29) Chloroform	2.858	83	210730	9.143	ppbv	98
30) Cyclohexane	3.871	84	120924	10.511	ppbv	97
31) cis-1,2-Dichloroethene	2.729	61	141397	9.736	ppbv	91
32) 1,1,1-Trichloroethane	3.376	97	194157	8.780	ppbv	99
34) 2-Butanone	2.564	43	234275	10.037	ppbv	99
35) Carbon Tetrachloride	3.774	117	190733	9.347	ppbv	96
36) Benzene	3.670	78	296341	9.970	ppbv	96
37) 1,2-Dichloroethane	3.230	62	152187	9.641	ppbv	100
38) Trichloroethene	4.564	130	115195	8.971	ppbv	95
39) 1,2-Dichloropropane	4.327	63	115554	9.968	ppbv	95
40) 1,4-Dioxane	4.596	88	46836	10.427	ppbv #	95
41) Tetrahydrofuran	3.062	42	130900	11.005	ppbv	98
42) Bromodichloromethane	4.505	83	223978	10.017	ppbv	98
43) Methyl Methacrylate	4.897	69	108635	11.366	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	534397	10.703	ppbv	99
45) t-1,3-Dichloropropene	6.431	75	108628	10.827	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042701.D
Acq On : 03 Jul 2025 10:05
Operator : SY/MD
Sample : VL0703ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 04 03:54:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0703ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 07/07/2025
Supervised By :Mahesh Dadoda 07/07/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	144794	10.459	ppbv	97
47) 1,1,2-Trichloroethane	6.600	97	116323	10.189	ppbv	96
48) Dibromochloromethane	7.402	129	175715	10.051	ppbv	98
49) Bromoform	9.496	173	150590	9.974	ppbv	99
50) 4-Methyl-2-Pentanone	5.771	43	307810	11.262	ppbv	100
51) 2-Hexanone	7.451	43	240804	12.109	ppbv	99
52) Tetrachloroethene	8.237	164	94949	9.557	ppbv	94
53) Toluene	6.952	91	314837	11.345	ppbv	99
54) 1,2-Dibromoethane	7.671	107	159118	9.998	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	134792	9.368	ppbv	98
57) Chlorobenzene	8.936	112	249953	9.363	ppbv	99
58) Ethyl Benzene	9.367	91	435917	11.328	ppbv	98
59) m/p-Xylene	9.564	91	718262m	22.284	ppbv	
60) o-Xylene	9.979	91	351150	11.075	ppbv	99
61) Styrene	9.885	104	147279	11.824	ppbv	100
62) Isopropylbenzene	10.552	105	508294	10.621	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	233464	9.561	ppbv	99
64) n-propylbenzene	10.998	120	135020	11.020	ppbv	99
65) tert-Butylbenzene	11.542	119	438665	10.709	ppbv	99
66) Benzyl Chloride	11.626	91	42770	10.777	ppbv	99
67) sec-Butylbenzene	11.778	105	637683	10.162	ppbv	99
69) p-Isopropyltoluene	11.937	119	525771	10.527	ppbv	100
70) n-Butylbenzene	12.290	91	543203	10.796	ppbv	100
71) 2-Chlorotoluene	10.914	91	385505	10.889	ppbv	99
72) 4-Ethyltoluene	11.134	105	431452	11.152	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	353407	10.835	ppbv	98
74) 1,2,4-Trimethylbenzene	11.548	105	391311	10.516	ppbv	93
75) 1,3-Dichlorobenzene	11.616	146	248327	9.512	ppbv	100
76) 1,4-Dichlorobenzene	11.681	146	241776	9.758	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	237403	9.002	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	167030	8.132	ppbv	99
79) Naphthalene	13.520	128	360852	11.619	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	142084	11.015	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	184434	10.191	ppbv	100

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

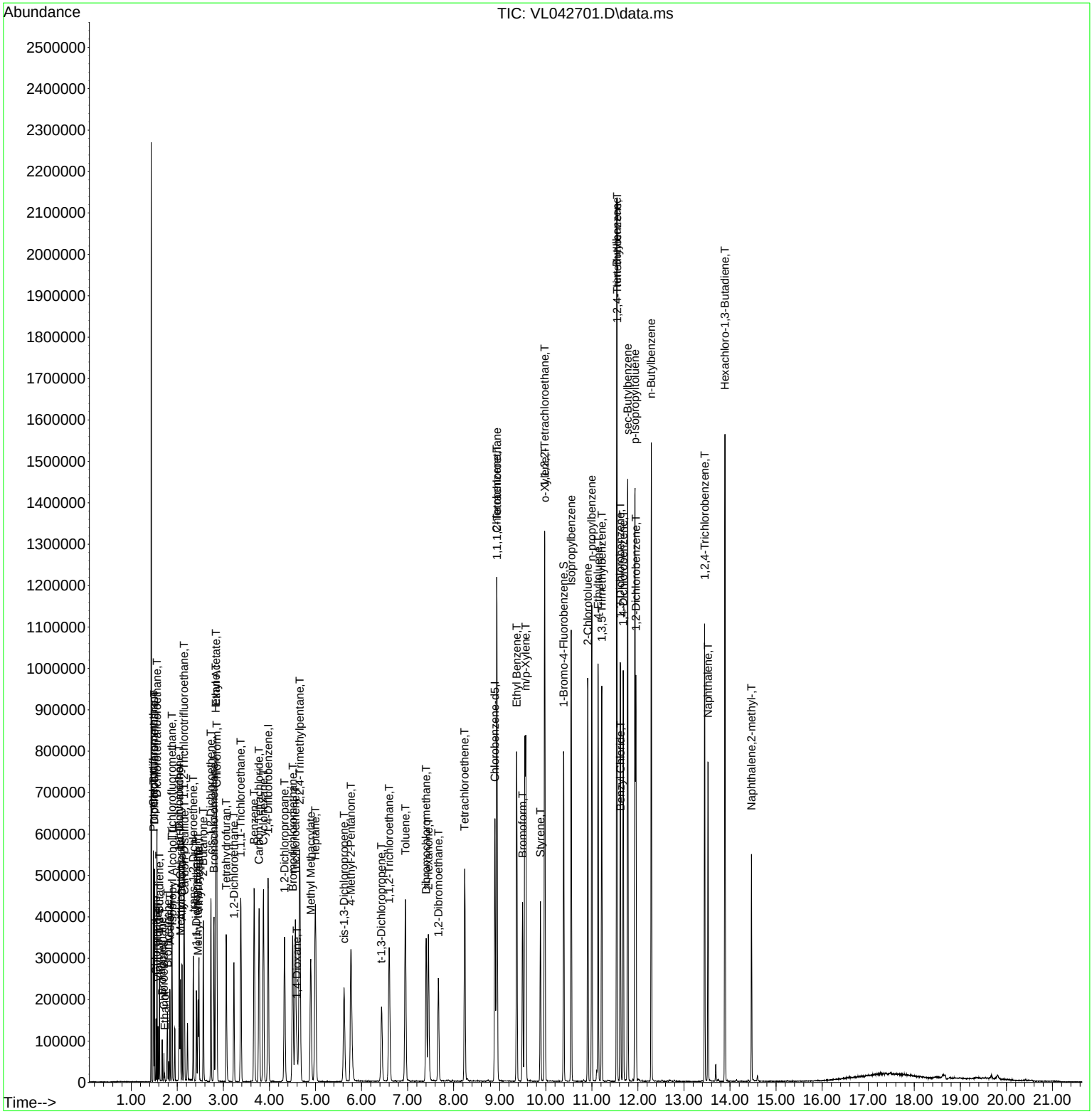
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042701.D
Acq On : 03 Jul 2025 10:05
Operator : SY/MD
Sample : VL0703ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 04 03:54:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0703ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/07/2025
Supervised By :Mahesh Dadoda 07/07/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042702.D
Acq On : 03 Jul 2025 10:38
Operator : SY/MD
Sample : QC063025 CAN 10606
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC063025 CAN 10606

Quant Time: Jul 04 03:55:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration

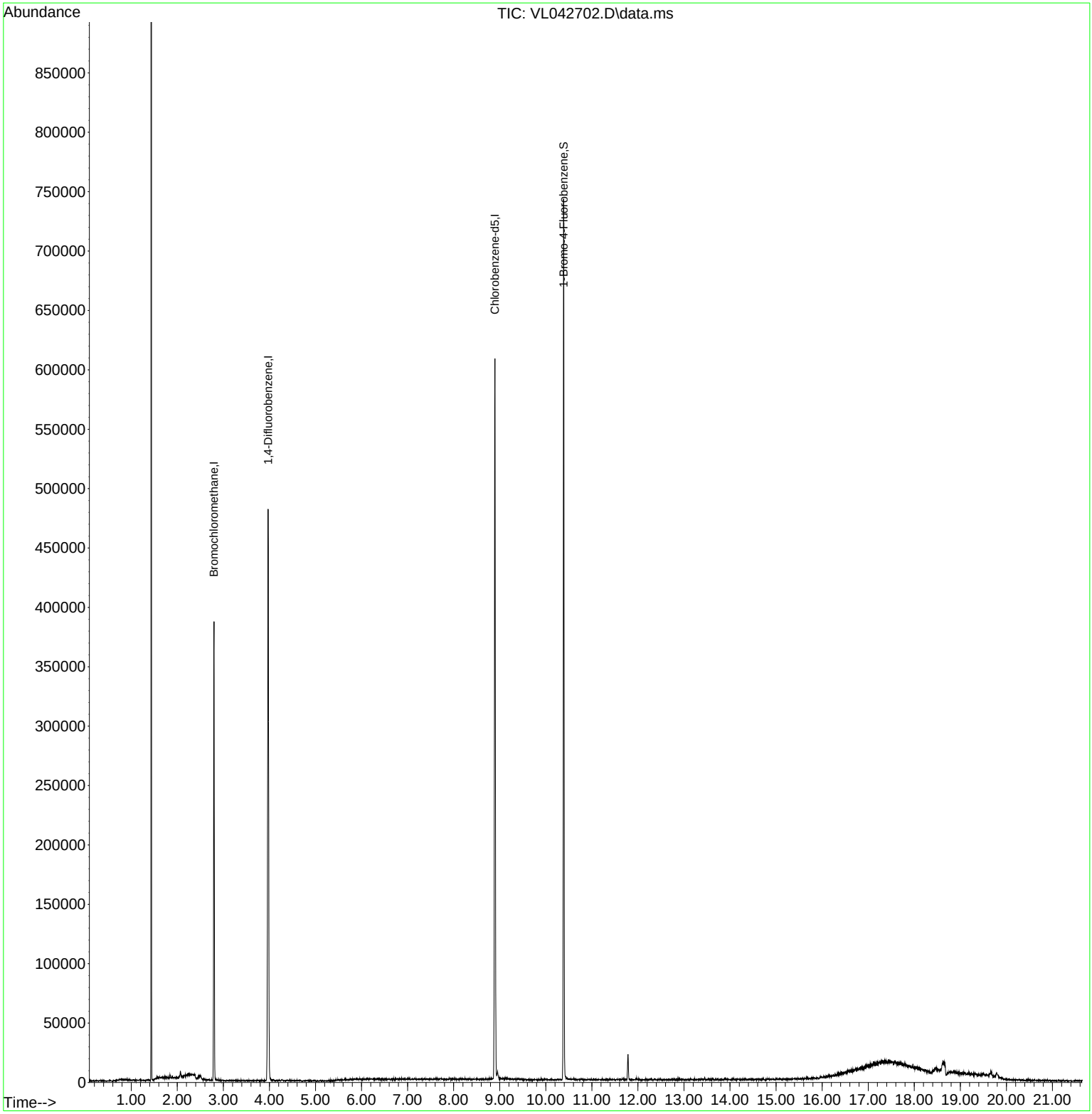
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	115729	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	286481	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	247417	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	184216	9.680	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.800%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042702.D
Acq On : 03 Jul 2025 10:38
Operator : SY/MD
Sample : QC063025 CAN 10606
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC063025 CAN 10606

Quant Time: Jul 04 03:55:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042703.D
Acq On : 03 Jul 2025 11:10
Operator : SY/MD
Sample : QC070225 CAN 10311
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC070225 CAN 10311

Quant Time: Jul 04 03:55:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration

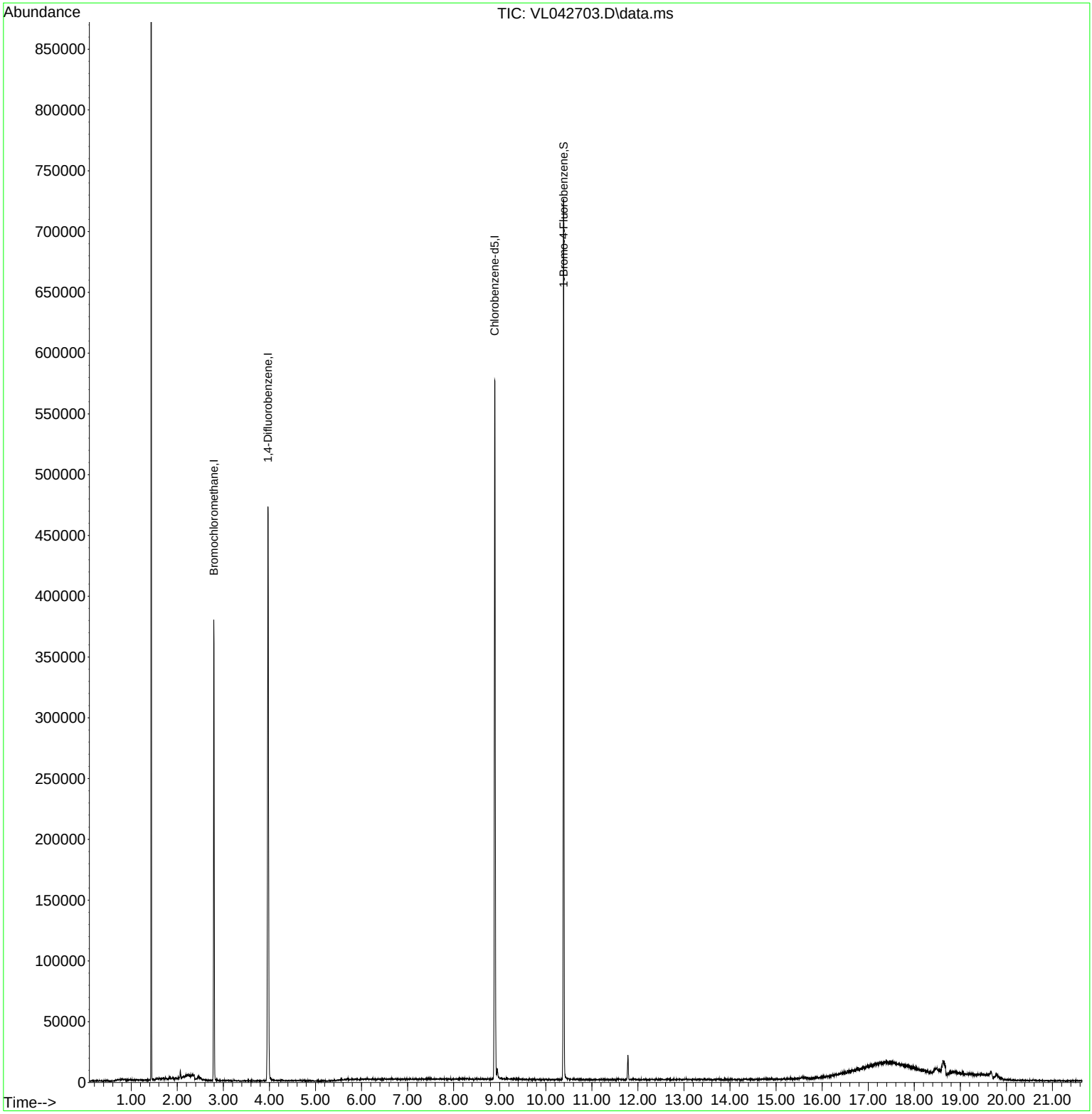
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.794	49	113245	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	270763	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	233909	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	174467	9.697	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.000%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042703.D
Acq On : 03 Jul 2025 11:10
Operator : SY/MD
Sample : QC070225 CAN 10311
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC070225 CAN 10311

Quant Time: Jul 04 03:55:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 03 01:50:16 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 # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/30/2025 12:26:19 PM				
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M		HP Processing Method	VL052925AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2629
Initial Calibration Stds	AP2623,AP2625,AP2626
CCC	AP2623
Internal Standard/PEM	AP2629
ICV/I.BLK	AP2627
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042578.D	29 May 2025 08:05	SY/MD	Ok
2	VSTDICCC010	VL042579.D	29 May 2025 11:09	SY/MD	Ok,M
3	VSTDICC002	VL042580.D	29 May 2025 11:43	SY/MD	Ok,M
4	VSTDICC001	VL042581.D	29 May 2025 12:15	SY/MD	Ok,M
5	VSTDICC0.5	VL042582.D	29 May 2025 12:47	SY/MD	Ok,M
6	VSTDICC0.1	VL042583.D	29 May 2025 13:19	SY/MD	Ok,M
7	VSTDICC0.03	VL042584.D	29 May 2025 13:51	SY/MD	Ok,M
8	VSTDICC015	VL042585.D	29 May 2025 14:24	SY/MD	Ok,M
9	VSTDICV010	VL042586.D	29 May 2025 14:56	SY/MD	Ok,M
10	VL0529ABL01	VL042587.D	29 May 2025 15:44	SY/MD	Not Ok
11	VL0529ABL02	VL042588.D	29 May 2025 16:50	SY/MD	Ok
12	Q2124-01	VL042589.D	29 May 2025 17:22	SY/MD	Dilution
13	Q2124-01DL	VL042590.D	29 May 2025 17:55	SY/MD	Ok,M
14	VL0529ABS01	VL042591.D	29 May 2025 18:27	SY/MD	Ok,M
15	Q2124-02	VL042592.D	29 May 2025 19:00	SY/MD	Ok,M
16	Q2124-02DL	VL042593.D	29 May 2025 19:32	SY/MD	Not Ok
17	Q2124-03	VL042594.D	29 May 2025 20:05	SY/MD	Ok,M
18	Q2124-03DL	VL042595.D	29 May 2025 20:37	SY/MD	Not Ok
19	Q2124-01DUP	VL042596.D	29 May 2025 21:10	SY/MD	Not Ok
20	QC052725 CAN 10609	VL042597.D	29 May 2025 21:44	SY/MD	Not Ok
21	QC052725 CAN 10609	VL042598.D	29 May 2025 22:18	SY/MD	Ok

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/30/2025 12:26:19 PM				
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2629
Initial Calibration Stds	AP2623,AP2625,AP2626
CCC	AP2623
Internal Standard/PEM	AP2629
ICV/I.BLK	AP2627
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	CAN10053	VL042599.D	29 May 2025 22:52	SY/MD	Ok
23	QC05225 CAN 10154	VL042600.D	29 May 2025 23:26	SY/MD	Ok
24	Q2124-01DUP	VL042601.D	29 May 2025 23:58	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 # VL070225

Review By	Semsettin Yesilyurt	Review On	7/3/2025 11:20:25 AM				
Supervise By	Mahesh Dadoda	Supervise On	7/3/2025 3:09:30 PM				
SubDirectory	VL070225	HP Acquire Method	TO15AIR.M	HP Processing Method	VL070225AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2630
Initial Calibration Stds	AP2633,AP2634,AP2635
CCC	AP2633
Internal Standard/PEM	AP2630
ICV/I.BLK	AP2636
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042688.D	02 Jul 2025 07:41	SY/MD	Ok
2	VSTDICCC010	VL042689.D	02 Jul 2025 08:23	SY/MD	Ok,M
3	VSTDICC002	VL042690.D	02 Jul 2025 08:56	SY/MD	Ok,M
4	VSTDICC001	VL042691.D	02 Jul 2025 09:28	SY/MD	Ok,M
5	VSTDICC0.5	VL042692.D	02 Jul 2025 10:01	SY/MD	Ok,M
6	VSTDICC0.1	VL042693.D	02 Jul 2025 10:34	SY/MD	Not Ok
7	VSTDICC0.03	VL042694.D	02 Jul 2025 11:06	SY/MD	Ok,M
8	VSTDICC015	VL042695.D	02 Jul 2025 11:39	SY/MD	Ok,M
9	VSTDICC0.1	VL042696.D	02 Jul 2025 12:12	SY/MD	Ok,M
10	VSTDICV010	VL042697.D	02 Jul 2025 13:08	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 # VL070325

Review By	Semsettin Yesilyurt	Review On	7/7/2025 8:40:16 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/7/2025 2:12:46 PM		
SubDirectory	VL070325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL070225AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2630
Initial Calibration Stds	AP2633,AP2634,AP2635
CCC	AP2633
Internal Standard/PEM	AP2630
ICV/I.BLK	AP2636
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042698.D	03 Jul 2025 07:53	SY/MD	Ok
2	VSTDCCC010	VL042699.D	03 Jul 2025 08:36	SY/MD	Ok,M
3	VL0703ABL01	VL042700.D	03 Jul 2025 09:22	SY/MD	Ok
4	VL0703ABS01	VL042701.D	03 Jul 2025 10:05	SY/MD	Ok,M
5	QC063025 CAN 10606	VL042702.D	03 Jul 2025 10:38	SY/MD	Ok
6	QC070225 CAN 10311	VL042703.D	03 Jul 2025 11:10	SY/MD	Ok
7	Q2126-14 0.1 PPB LOQ	VL042704.D	03 Jul 2025 12:43	SY/MD	Not Ok

M : Manual Integration

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042747.D
Acq On : 23 Jul 2025 08:58
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Jul 24 04:56:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	159080	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	462763	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	422206	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	338271	10.117	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	190592	9.062	ppbv	100
3) Chlorodifluoromethane	1.476	51	258542	9.436	ppbv	100
4) Chloromethane	1.531	50	77006	9.050	ppbv	100
5) Vinyl Chloride	1.580	62	65346	7.773	ppbv	100
6) Bromomethane	1.667	94	28292	8.705	ppbv	100
7) Chloroethane	1.703	64	28085	8.646	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	155875	9.011	ppbv	100
9) Propene	1.483	41	94480	9.488	ppbv	100
10) Heptane	4.975	43	259821	9.701	ppbv	100
11) Trichlorofluoromethane	1.878	101	194964	8.992	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	149612	9.081	ppbv	100
13) Ethanol	1.719	45	7949	9.867	ppbv	97
14) Bromoethene	1.780	108	53625	9.193	ppbv	100
15) Acetone	1.835	43	158714	7.225	ppbv	100
16) 1,3-Butadiene	1.609	39	80968	8.642	ppbv	100
17) tert-Butyl alcohol	2.039	59	185262	9.351	ppbv	100
18) 1,1-Dichloroethene	2.033	96	64224	8.627	ppbv	100
19) Isopropyl Alcohol	1.884	45	104903	8.987	ppbv	100
20) Methylene Chloride	2.059	84	53581	7.740	ppbv	100
21) Allyl Chloride	2.094	41	127021	9.382	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	73152	9.148	ppbv	100
23) Vinyl Acetate	2.460	43	271125	10.181	ppbv	100
24) 1,1-Dichloroethane	2.408	63	150257	9.141	ppbv	100
25) Ethyl Acetate	2.832	43	469997	9.666	ppbv	100
26) Hexane	2.826	57	203800	9.555	ppbv	100
27) Carbon Disulfide	2.149	76	173105	9.480	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	88372	8.770	ppbv	100
29) Chloroform	2.845	83	304670	9.244	ppbv	100
30) Cyclohexane	3.852	84	178948	9.892	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	207751	9.479	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	311368	9.069	ppbv	100
34) 2-Butanone	2.554	43	306858	9.361	ppbv	100
35) Carbon Tetrachloride	3.758	117	324501	9.436	ppbv	100
36) Benzene	3.654	78	414863	9.459	ppbv	100
37) 1,2-Dichloroethane	3.217	62	248414	9.403	ppbv	100
38) Trichloroethene	4.545	130	188750	8.926	ppbv	100
39) 1,2-Dichloropropane	4.311	63	149771	9.251	ppbv	100
40) 1,4-Dioxane	4.580	88	65413	8.569	ppbv #	100
41) Tetrahydrofuran	3.049	42	167323	10.160	ppbv	100
42) Bromodichloromethane	4.483	83	334531	9.713	ppbv	100
43) Methyl Methacrylate	4.875	69	161053	10.331	ppbv	100
44) 2,2,4-Trimethylpentane	4.638	57	687885	9.623	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	185965	10.633	ppbv	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042747.D
Acq On : 23 Jul 2025 08:58
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Jul 24 04:56:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

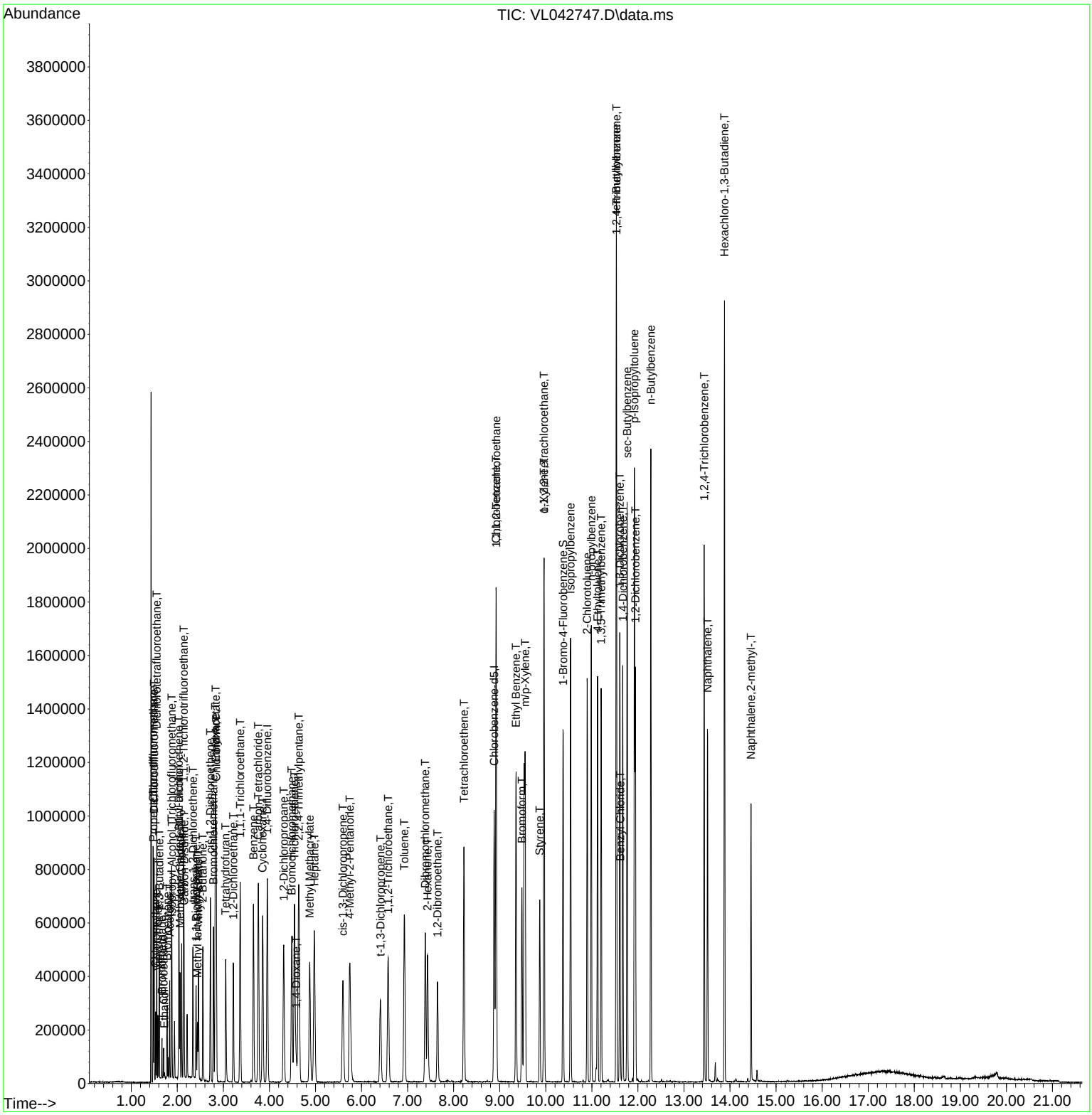
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	234594	10.587	ppbv		100
47) 1,1,2-Trichloroethane	6.580	97	160431	9.297	ppbv		100
48) Dibromochloromethane	7.383	129	277832	10.141	ppbv		100
49) Bromoform	9.480	173	244997	10.256	ppbv		100
50) 4-Methyl-2-Pentanone	5.745	43	413966	9.914	ppbv		100
51) 2-Hexanone	7.432	43	336048	10.532	ppbv		100
52) Tetrachloroethene	8.225	164	156930	8.609	ppbv		100
53) Toluene	6.930	91	472953	10.042	ppbv		100
54) 1,2-Dibromoethane	7.648	107	238045	9.745	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.924	131	204205	9.302	ppbv		100
57) Chlorobenzene	8.920	112	371117	9.082	ppbv		100
58) Ethyl Benzene	9.354	91	655020	9.824	ppbv		100
59) m/p-Xylene	9.552	91	460477	8.639	ppbv	#	11
60) o-Xylene	9.963	91	517292	9.715	ppbv		100
61) Styrene	9.869	104	236709	10.568	ppbv		100
62) Isopropylbenzene	10.539	105	757219	9.641	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.963	83	292568	8.434	ppbv		100
64) n-propylbenzene	10.989	120	198109	9.675	ppbv		100
65) tert-Butylbenzene	11.529	119	678174	9.721	ppbv		100
66) Benzyl Chloride	11.617	91	66954	11.691	ppbv		100
67) sec-Butylbenzene	11.765	105	939396	9.468	ppbv		100
69) p-Isopropyltoluene	11.924	119	814010	10.061	ppbv		100
70) n-Butylbenzene	12.280	91	818457	10.473	ppbv		100
71) 2-Chlorotoluene	10.898	91	584629	9.708	ppbv		100
72) 4-Ethyltoluene	11.125	105	643519	10.120	ppbv		100
73) 1,3,5-Trimethylbenzene	11.202	105	538451	10.285	ppbv		100
74) 1,2,4-Trimethylbenzene	11.536	105	584447	10.232	ppbv		100
75) 1,3-Dichlorobenzene	11.607	146	374587	9.355	ppbv		100
76) 1,4-Dichlorobenzene	11.672	146	378093	9.649	ppbv		100
77) 1,2-Dichlorobenzene	11.947	146	358206	9.102	ppbv		100
78) Hexachloro-1,3-Butadiene	13.879	225	300801	8.444	ppbv		100
79) Naphthalene	13.513	128	598108	9.665	ppbv		100
80) Naphthalene,2-methyl-	14.455	142	289412	9.404	ppbv		100
81) 1,2,4-Trichlorobenzene	13.439	180	337776	9.710	ppbv		100

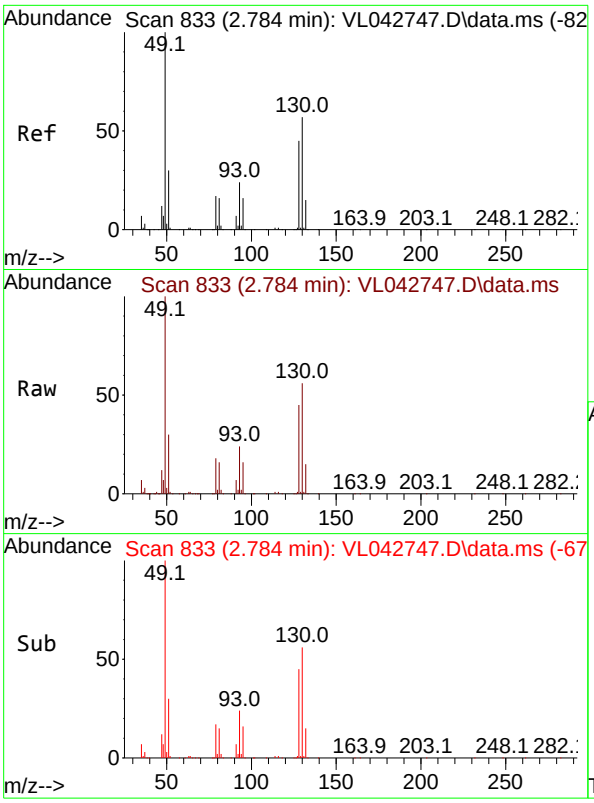
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042747.D
Acq On : 23 Jul 2025 08:58
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Jul 24 04:56:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration



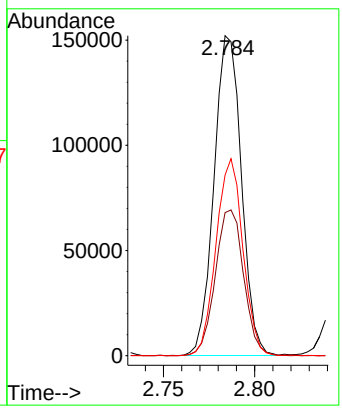


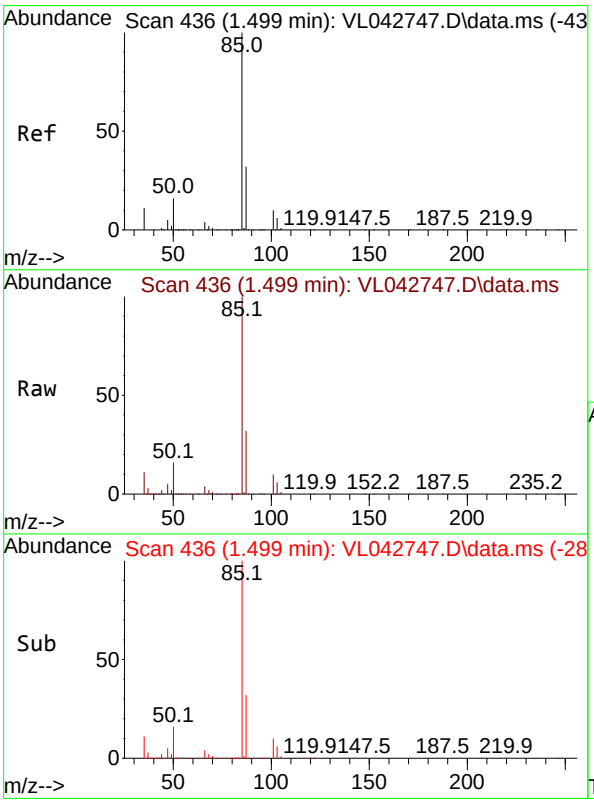
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 49 Resp: 159080

Ion	Ratio	Lower	Upper
49	100		
128	47.3	23.6	71.0
130	60.5	30.3	90.8

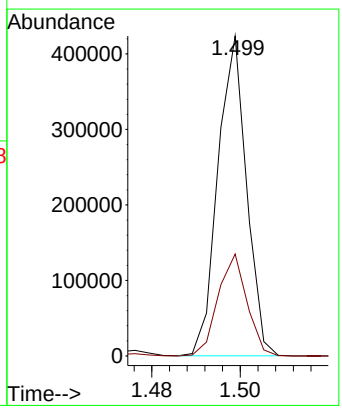


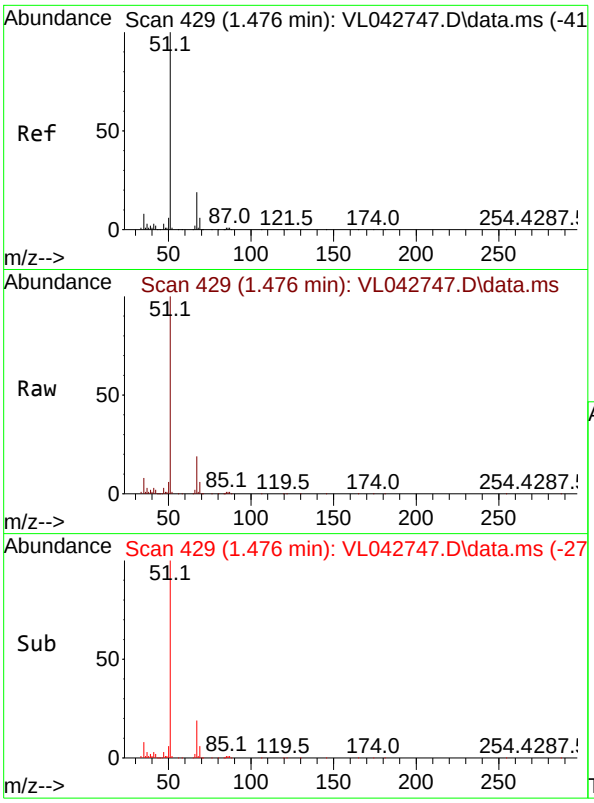


#2
Dichlorodifluoromethane
Concen: 9.062 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 85 Resp: 190592

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.4	38.2



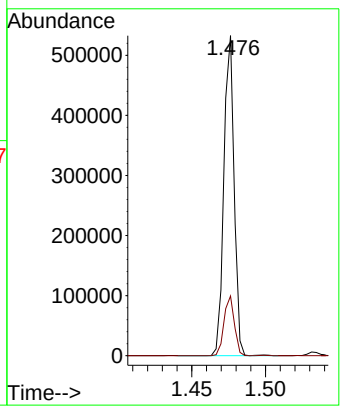


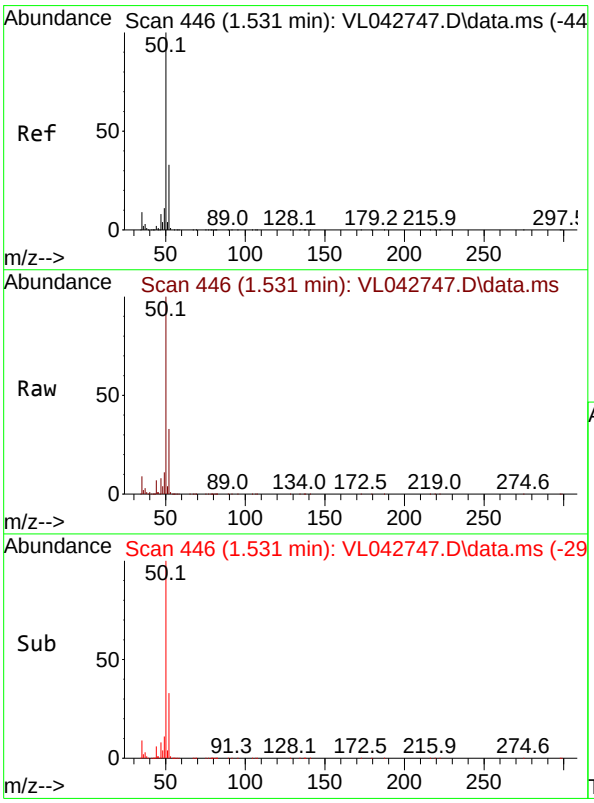
#3
Chlorodifluoromethane
Concen: 9.436 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 258542

Ion	Ratio	Lower	Upper
51	100		
67	18.8	15.0	22.6

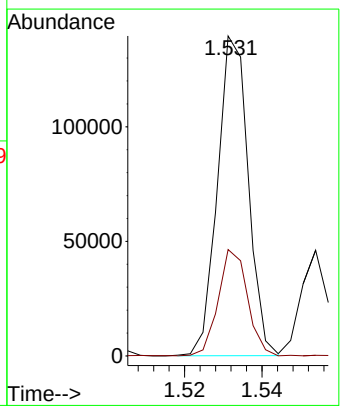


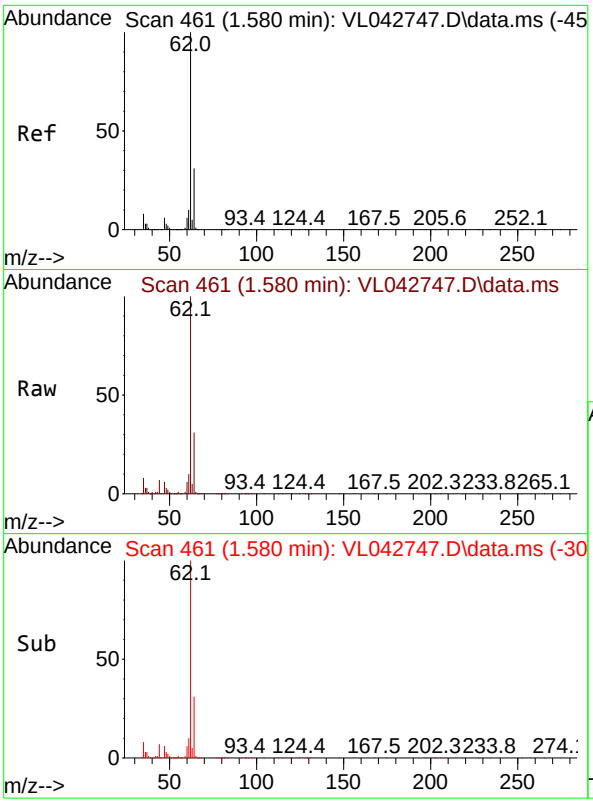


#4
Chloromethane
Concen: 9.050 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 50 Resp: 77006

Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.6	40.0



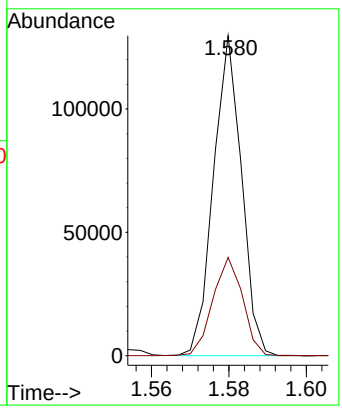


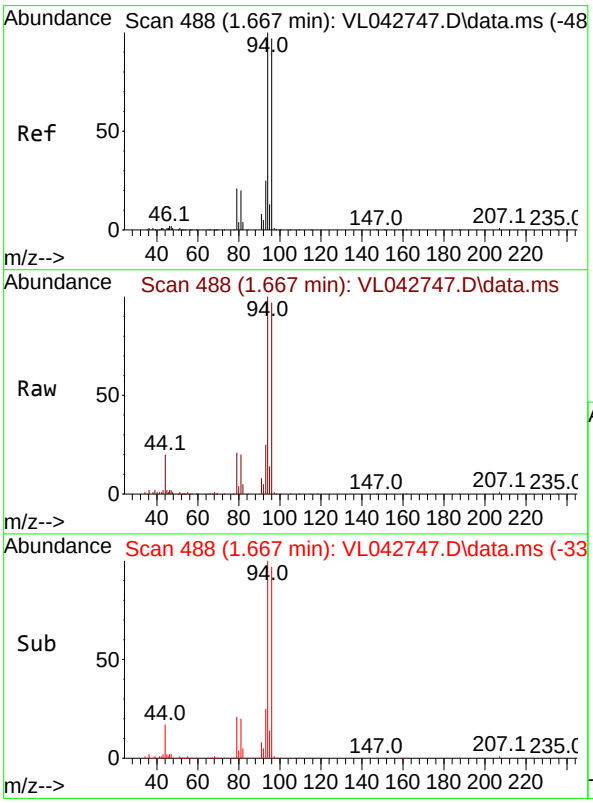
#5
Vinyl Chloride
Concen: 7.773 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 65346

Ion	Ratio	Lower	Upper
62	100		
64	30.6	24.5	36.7

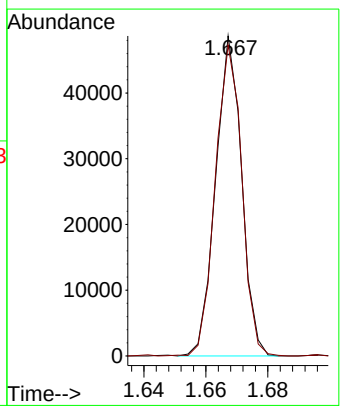


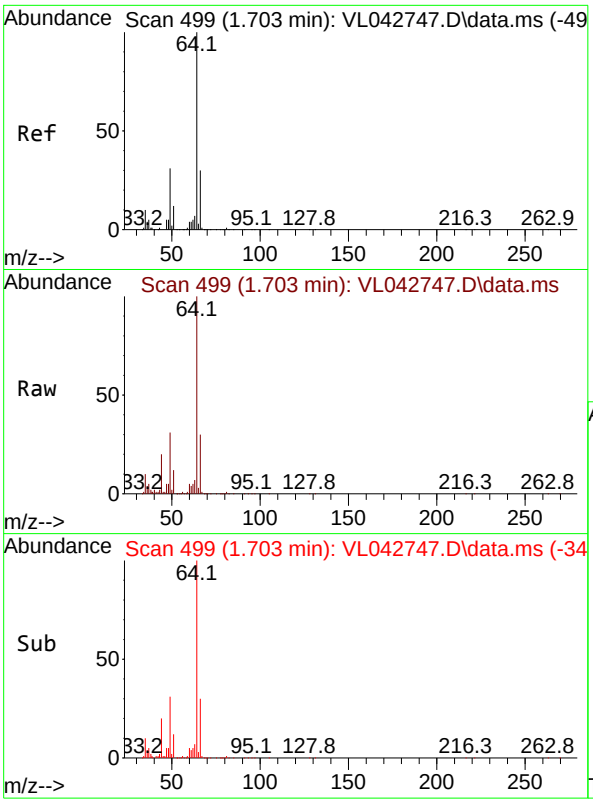


#6
Bromomethane
Concen: 8.705 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 94 Resp: 28292

Ion	Ratio	Lower	Upper
94	100		
96	97.0	77.6	116.4



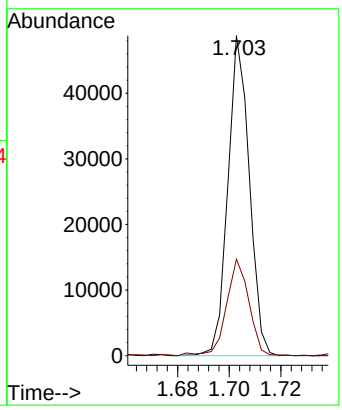


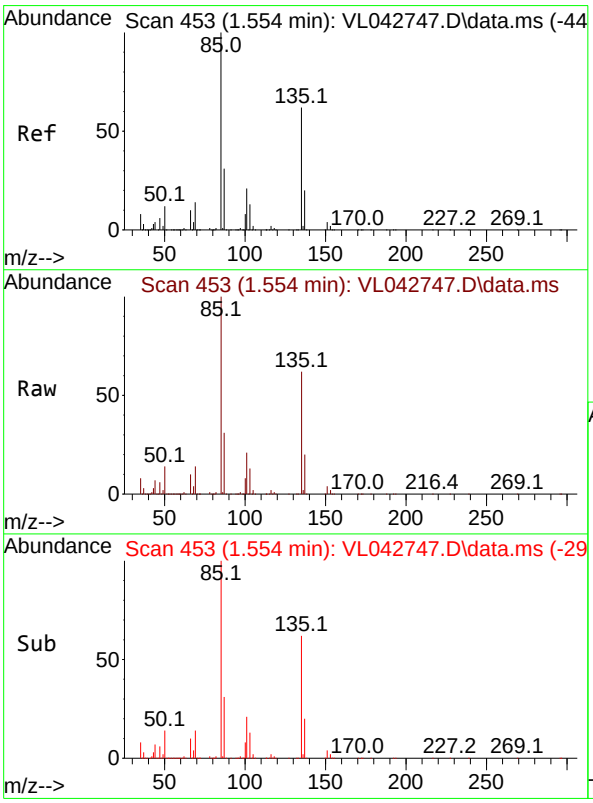
#7
Chloroethane
Concen: 8.646 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 28085

Ion	Ratio	Lower	Upper
64	100		
66	30.1	24.1	36.1

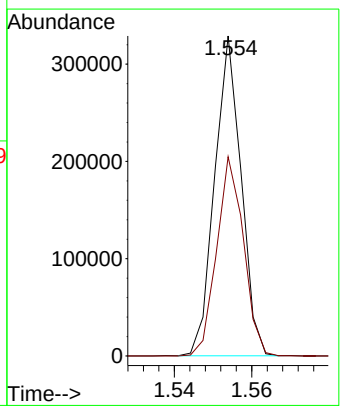


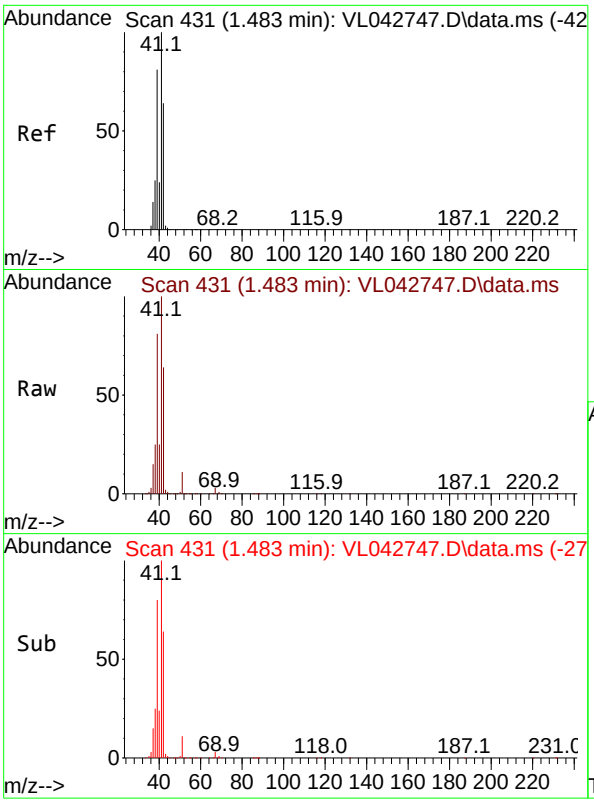


#8
Dichlorotetrafluoroethane
Concen: 9.011 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 85 Resp: 155875

Ion	Ratio	Lower	Upper
85	100		
135	63.3	50.6	76.0



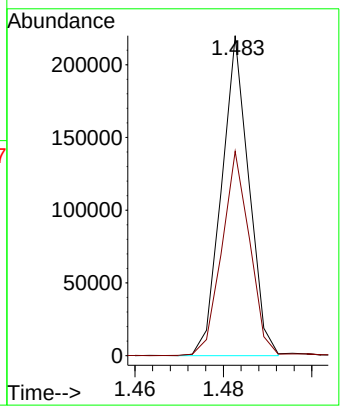


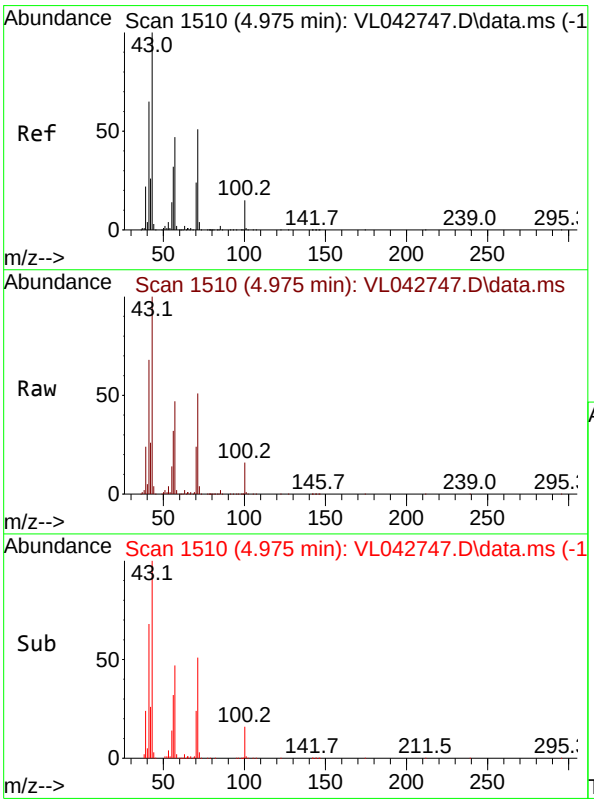
#9
Propene
Concen: 9.488 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 94480

Ion	Ratio	Lower	Upper
41	100		
42	66.5	53.2	79.8

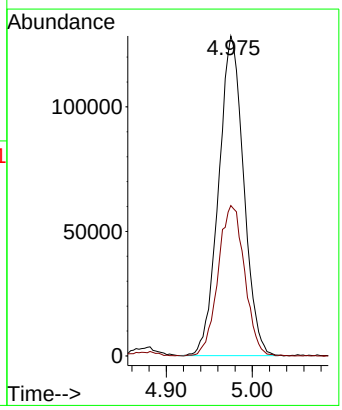


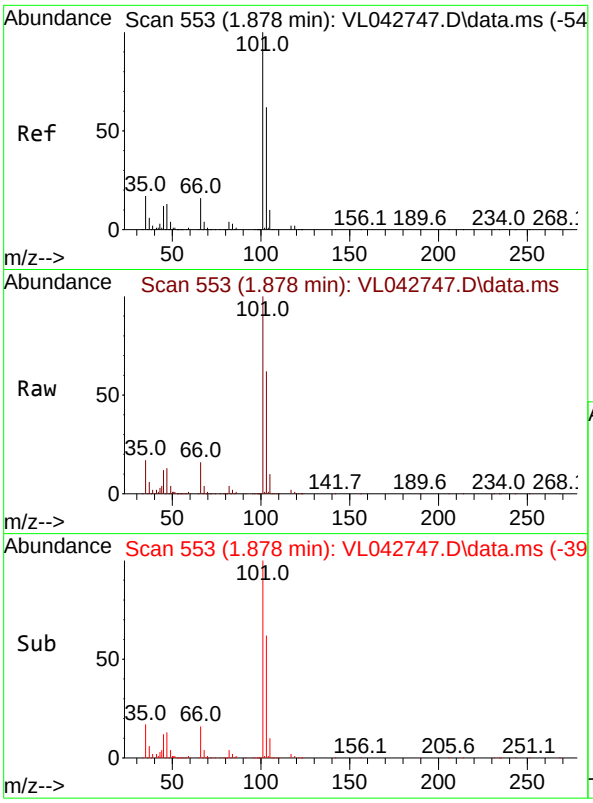


#10
Heptane
Concen: 9.701 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 43 Resp: 259821

Ion	Ratio	Lower	Upper
43	100		
57	49.9	39.9	59.9



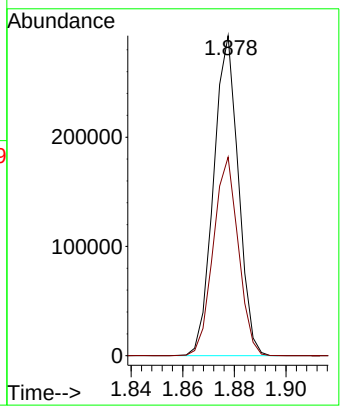


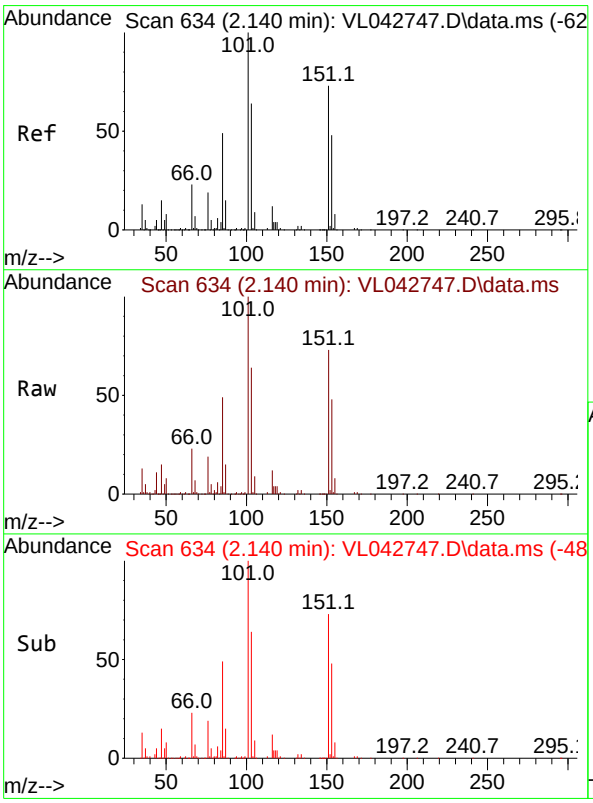
#11
Trichlorofluoromethane
Concen: 8.992 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 194964

Ion	Ratio	Lower	Upper
101	100		
103	62.0	49.6	74.4

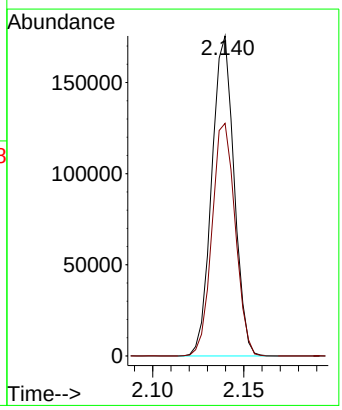


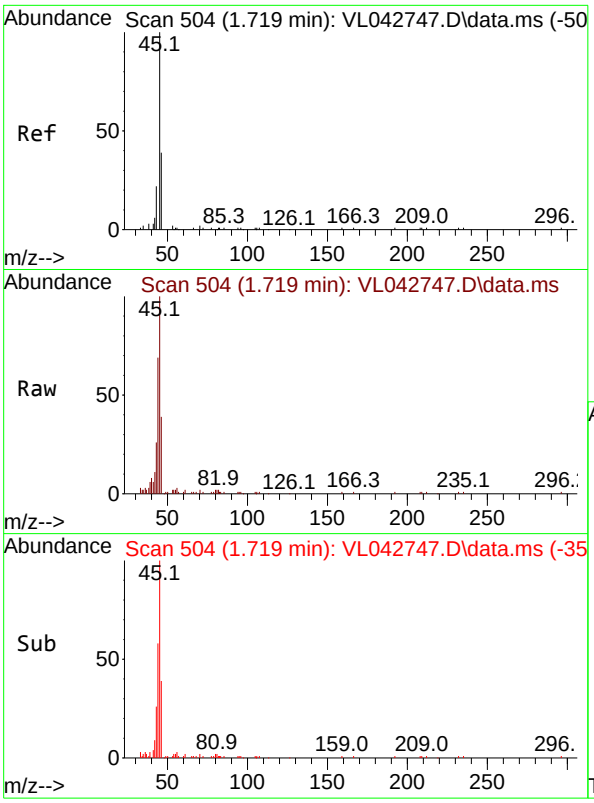


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.081 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:101 Resp: 149612

Ion	Ratio	Lower	Upper
101	100		
151	75.6	60.5	90.7



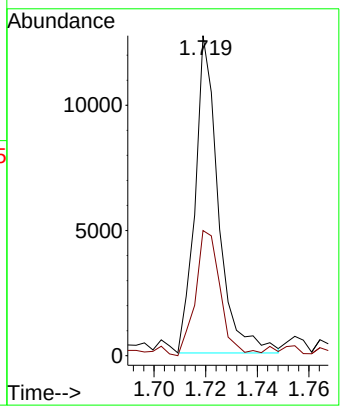


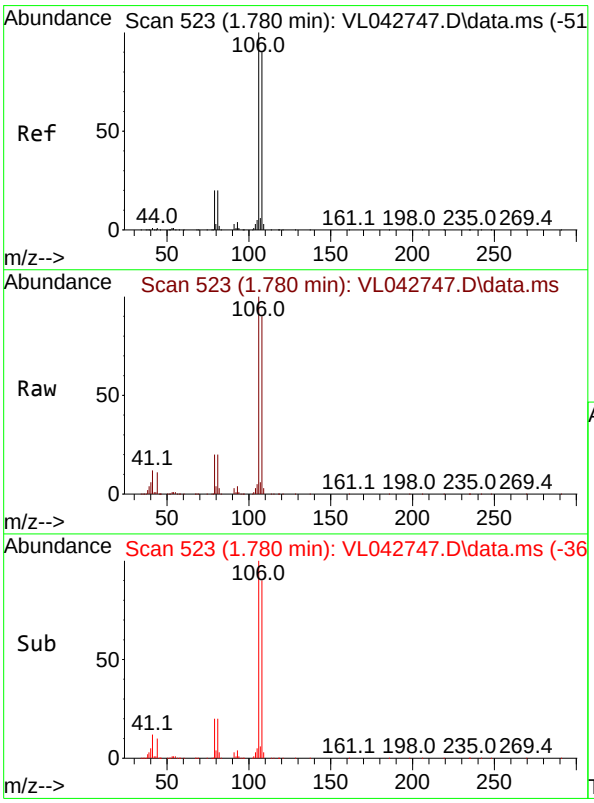
#13
Ethanol
Concen: 9.867 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 7949

Ion	Ratio	Lower	Upper
45	100		
46	46.5	17.8	71.4

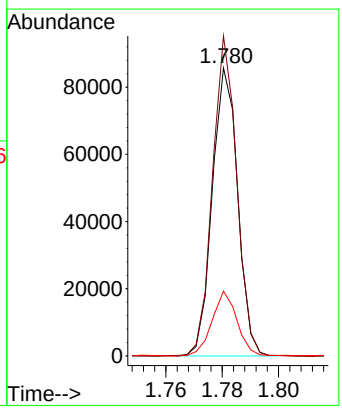


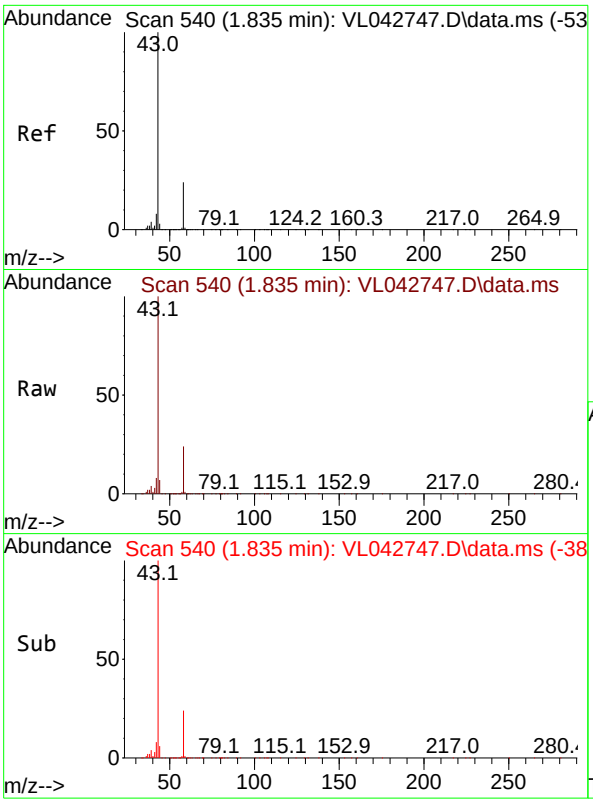


#14
Bromoethene
Concen: 9.193 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:108 Resp: 53625

Ion	Ratio	Lower	Upper
108	100		
106	105.9	84.7	127.1
79	21.8	17.4	26.2



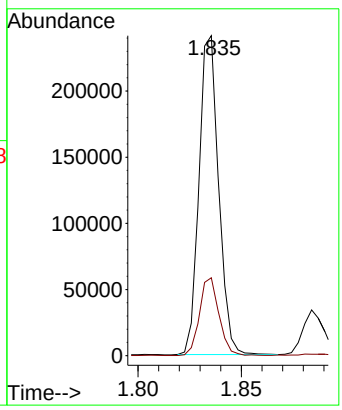


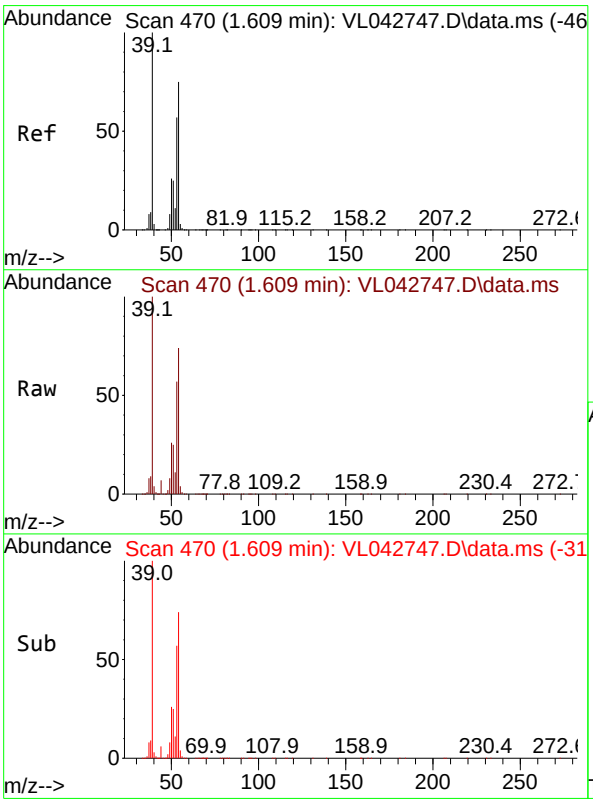
#15
Acetone
Concen: 7.225 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 158714

Ion	Ratio	Lower	Upper
43	100		
58	24.8	19.8	29.8

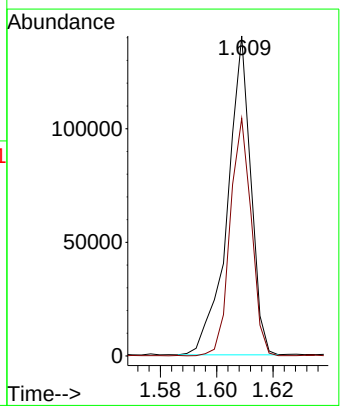


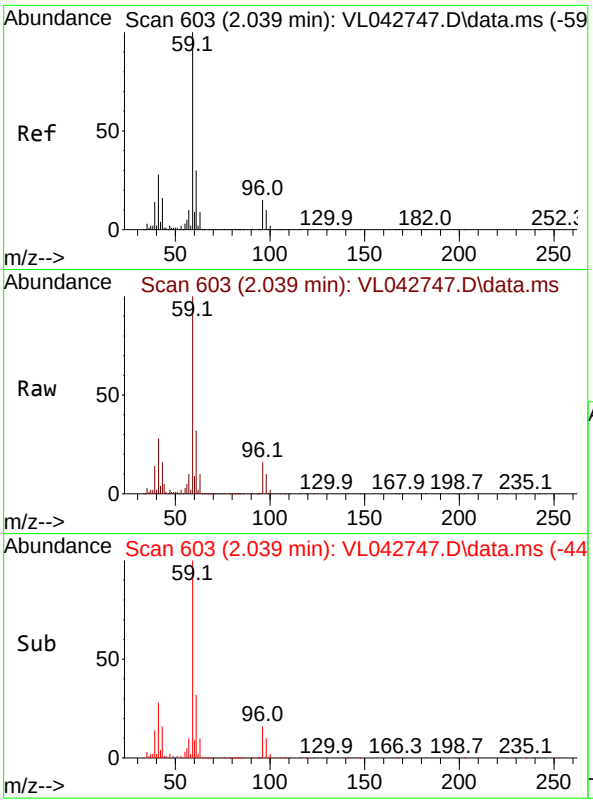


#16
1,3-Butadiene
Concen: 8.642 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 39 Resp: 80968

Ion	Ratio	Lower	Upper
39	100		
54	68.1	54.5	81.7



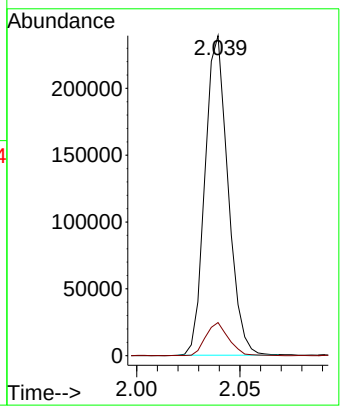


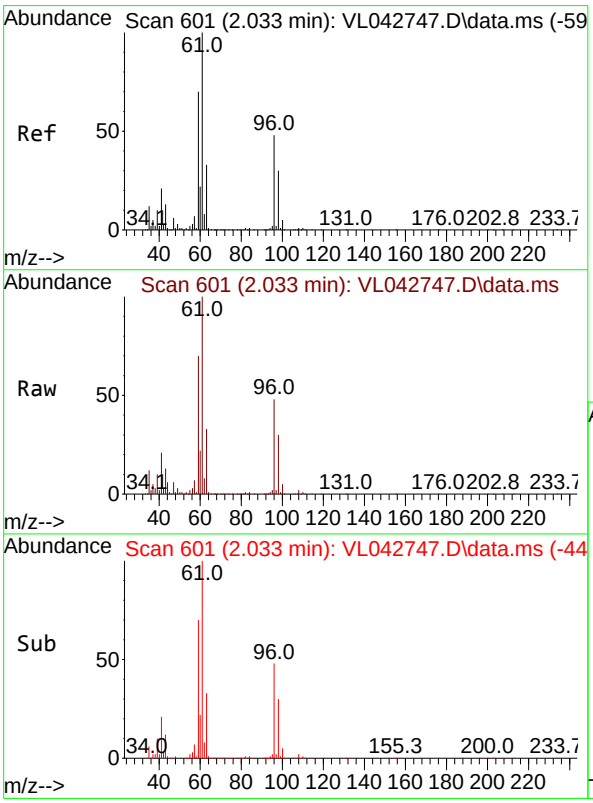
#17
tert-Butyl alcohol
Concen: 9.351 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 185262

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5

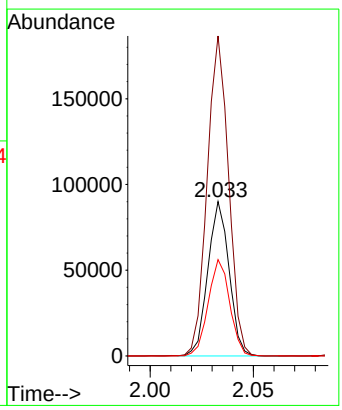


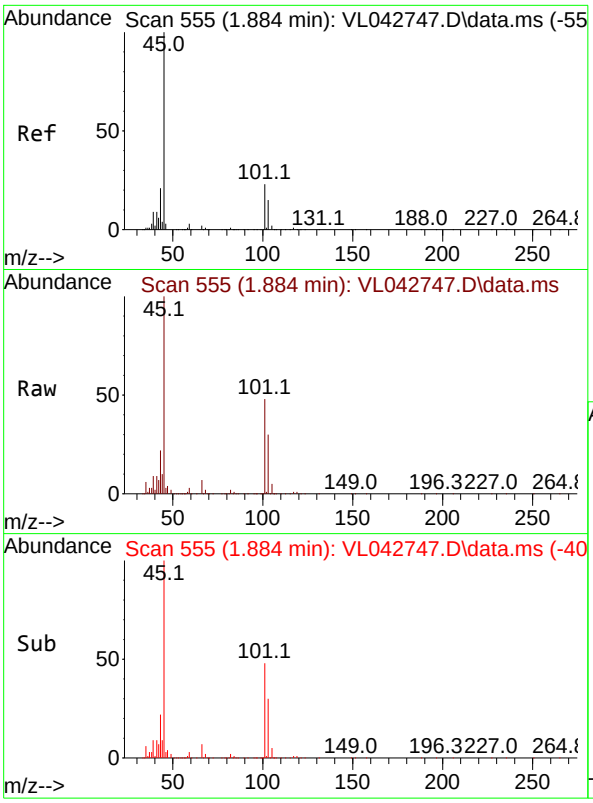


#18
1,1-Dichloroethene
Concen: 8.627 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 96 Resp: 64224

Ion	Ratio	Lower	Upper
96	100		
61	207.2	165.8	248.6
98	62.4	49.9	74.9



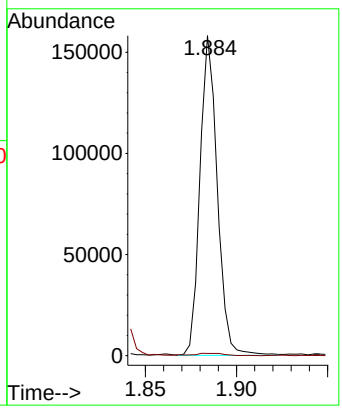


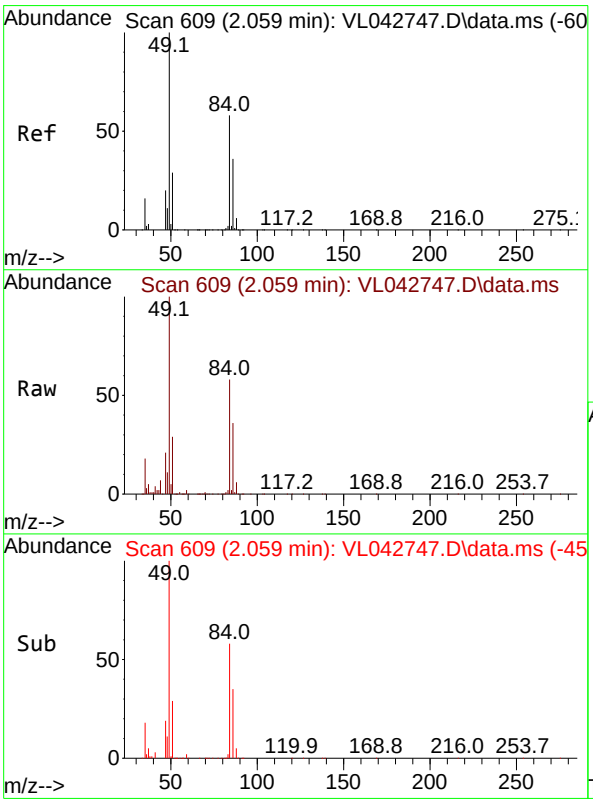
#19
Isopropyl Alcohol
Concen: 8.987 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 104903

Ion	Ratio	Lower	Upper
45	100		
58	37.5	30.0	45.0

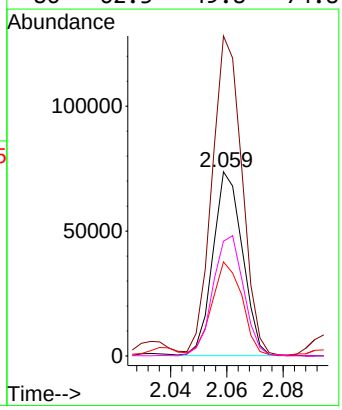


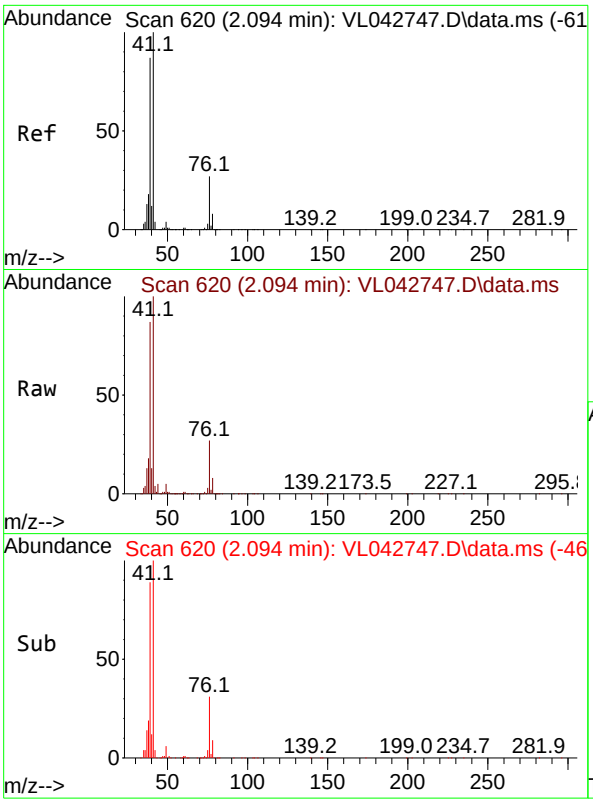


#20
Methylene Chloride
Concen: 7.740 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 84 Resp: 53581

Ion	Ratio	Lower	Upper
84	100		
49	173.3	138.6	208.0
51	50.8	40.6	61.0
86	62.3	49.8	74.8



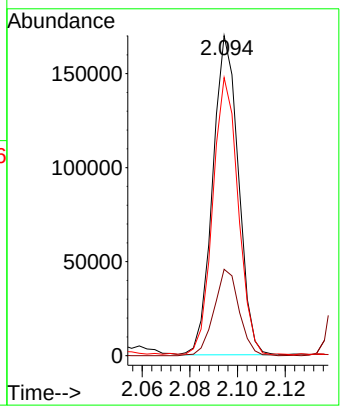


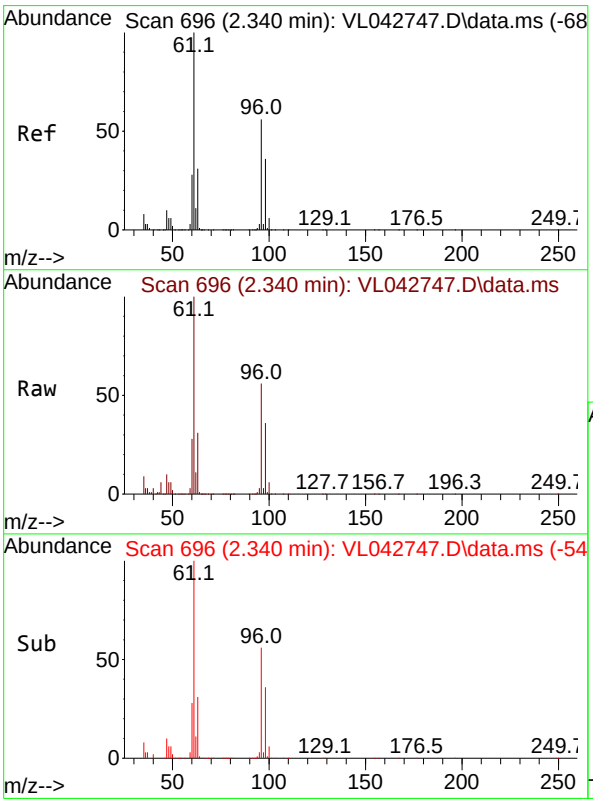
#21
Allyl Chloride
Concen: 9.382 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 127021

Ion	Ratio	Lower	Upper
41	100		
76	26.4	21.1	31.7
39	85.4	68.3	102.5

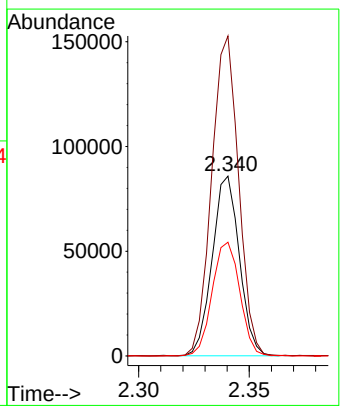


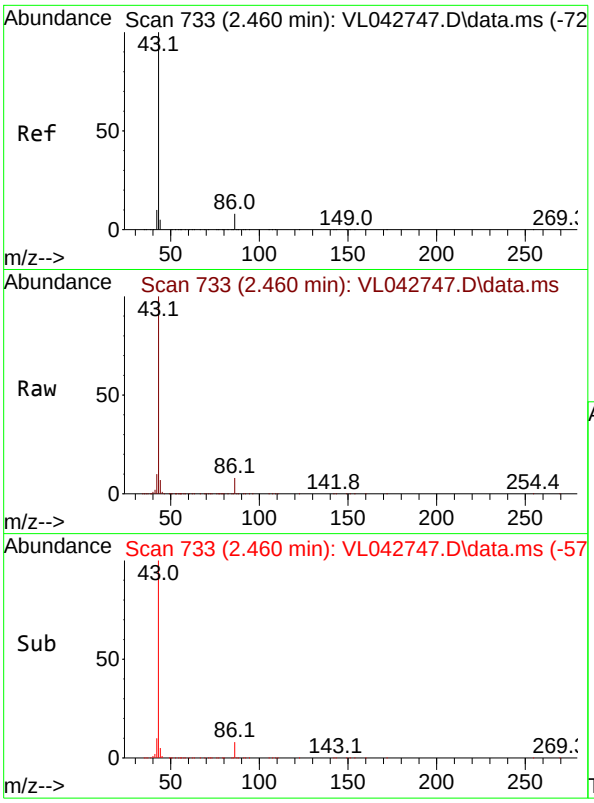


#22
trans-1,2-Dichloroethene
Concen: 9.148 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 96 Resp: 73152

Ion	Ratio	Lower	Upper
96	100		
61	177.9	142.3	213.5
98	63.3	50.6	76.0



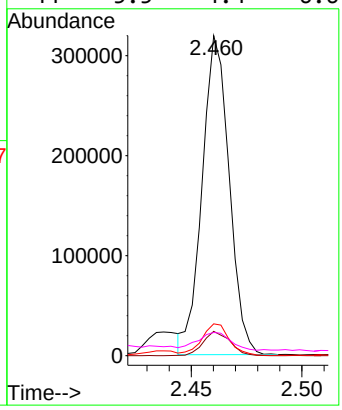


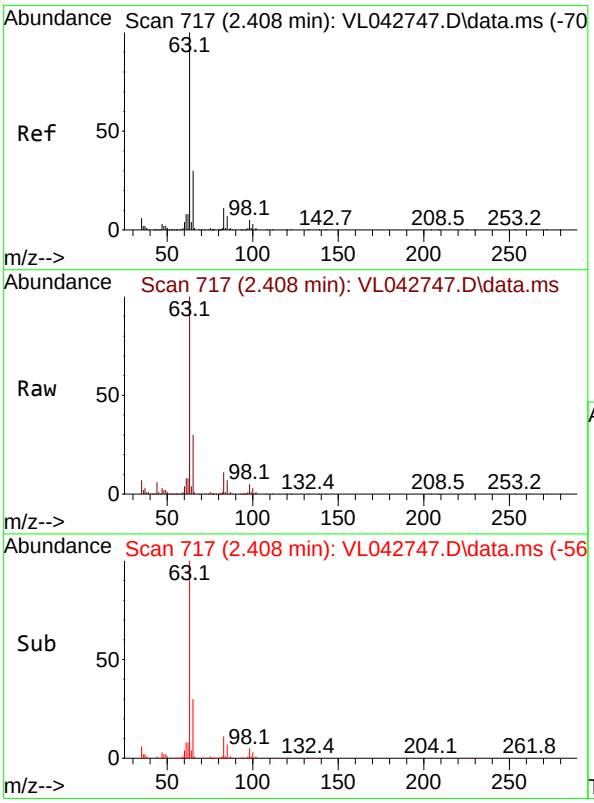
#23
Vinyl Acetate
Concen: 10.181 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 271125

Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.1	9.1
42	9.8	7.8	11.8
44	5.5	4.4	6.6

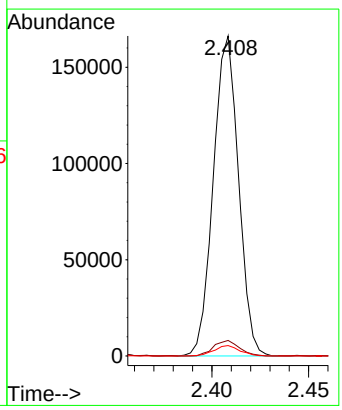


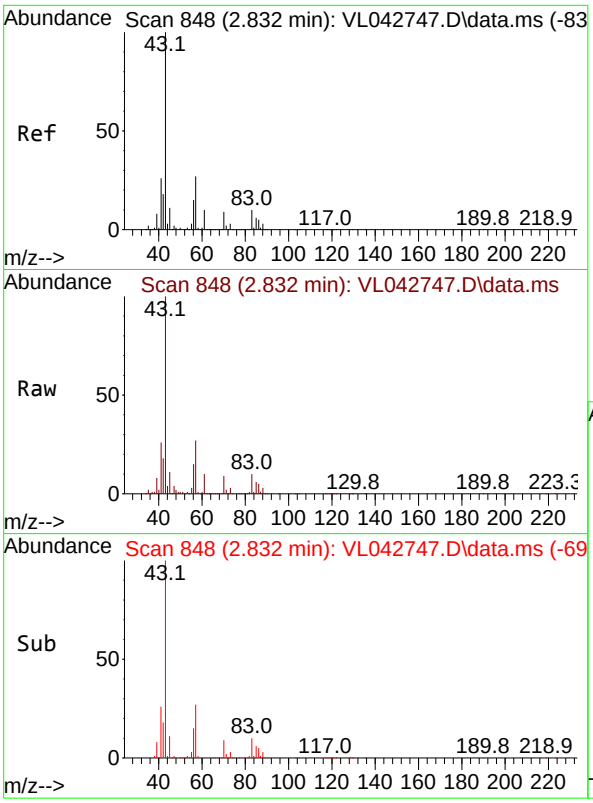


#24
1,1-Dichloroethane
Concen: 9.141 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 63 Resp: 150257

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.5	7.4
100	3.2	1.6	4.8



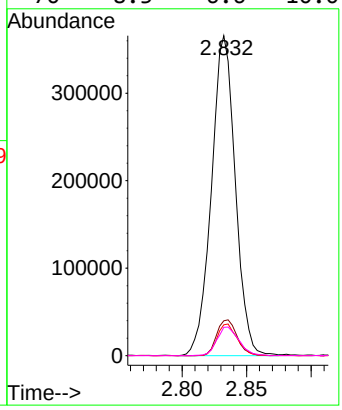


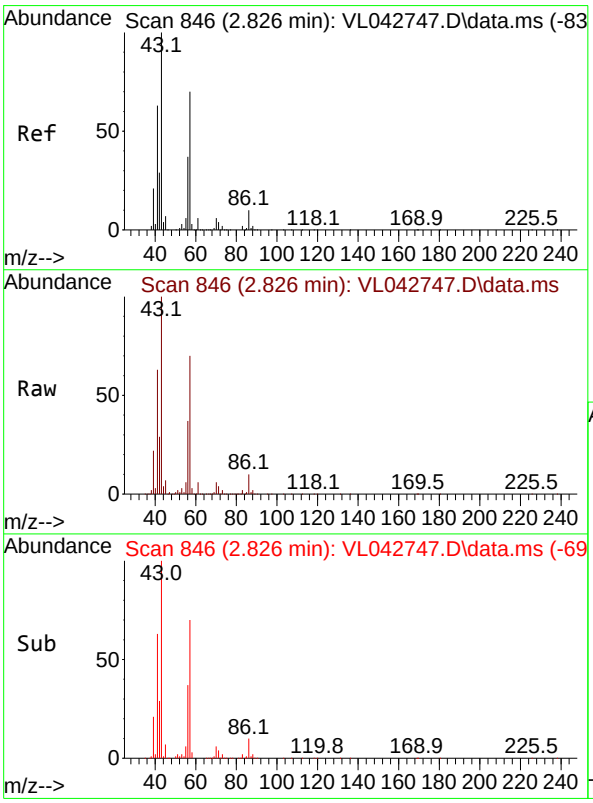
#25
Ethyl Acetate
Concen: 9.666 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 469997

Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	8.4	6.7	10.1
70	8.3	6.6	10.0

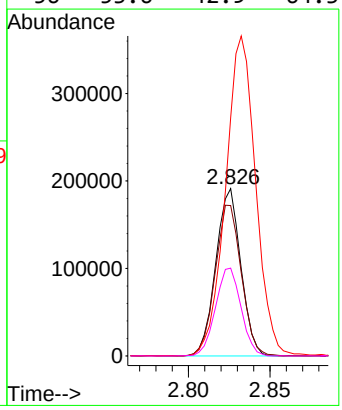


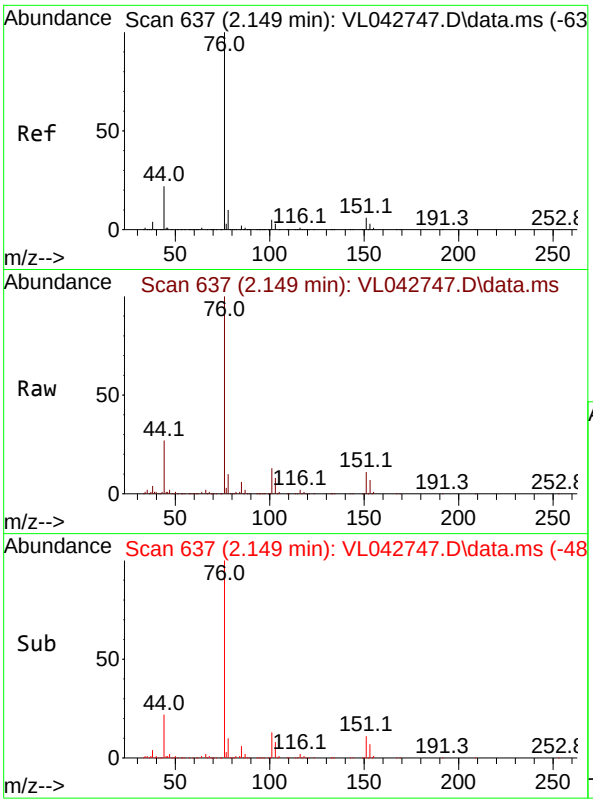


#26
Hexane
Concen: 9.555 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 57 Resp: 203800

Ion	Ratio	Lower	Upper
57	100		
41	94.3	75.4	113.2
43	231.3	185.0	277.6
56	53.6	42.9	64.3



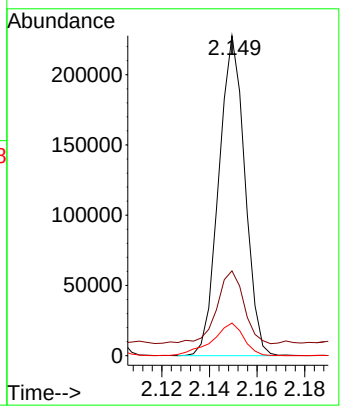


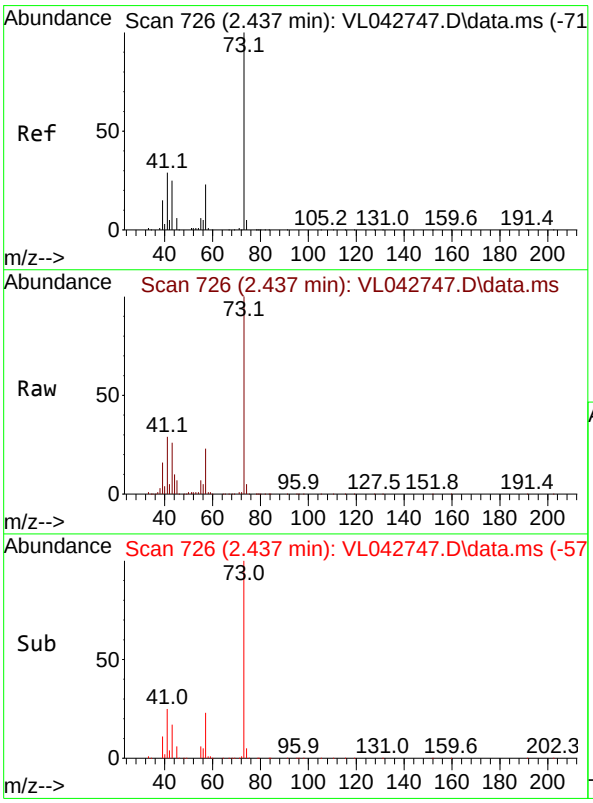
#27
Carbon Disulfide
Concen: 9.480 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 76 Resp: 173105

Ion	Ratio	Lower	Upper
76	100		
44	24.1	19.3	28.9
78	12.4	9.9	14.9

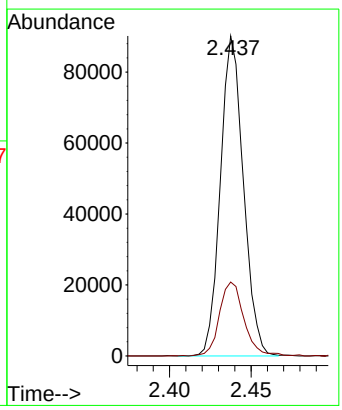


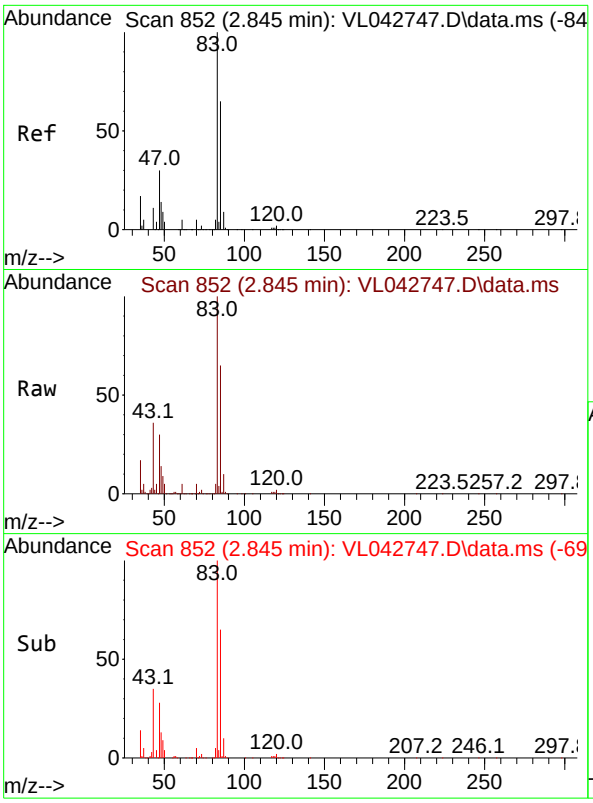


#28
Methyl tert-Butyl Ether
Concen: 8.770 ppbv
RT: 2.437 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 73 Resp: 88372

Ion	Ratio	Lower	Upper
73	100		
57	24.8	19.8	29.8



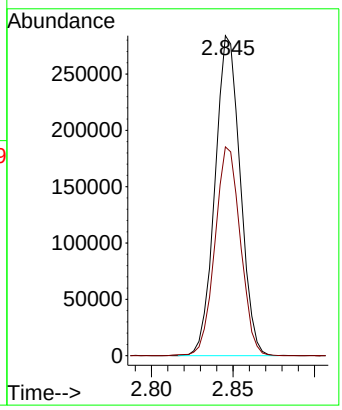


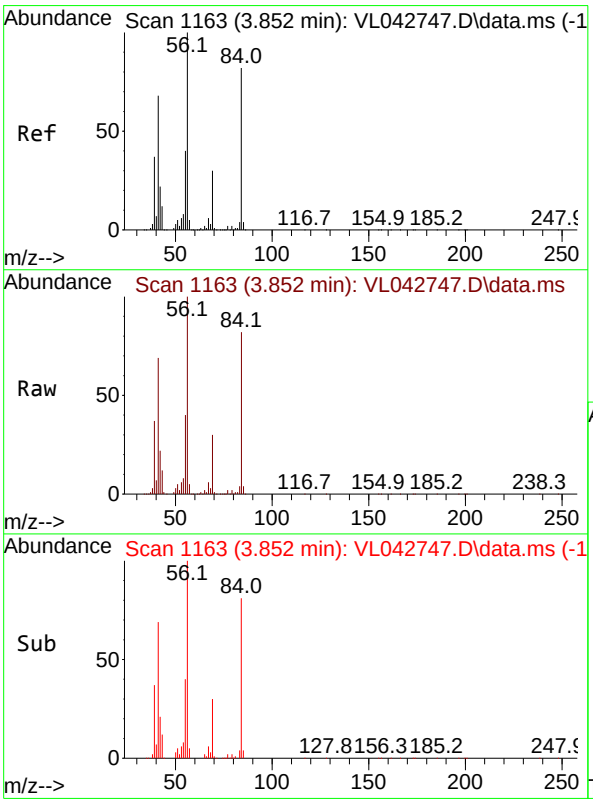
#29
Chloroform
Concen: 9.244 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 304670

Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.2	78.2

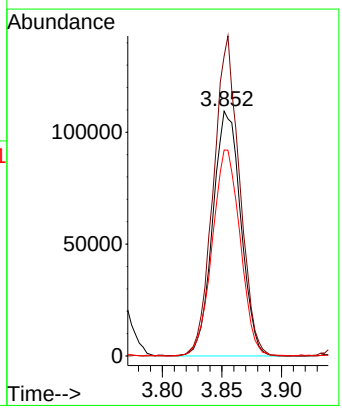


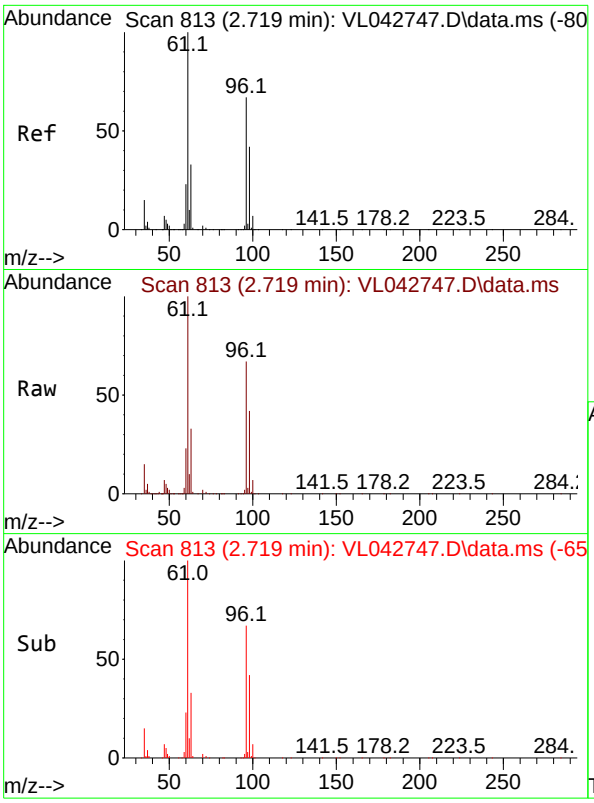


#30
Cyclohexane
Concen: 9.892 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 84 Resp: 178948

Ion	Ratio	Lower	Upper
84	100		
56	121.9	97.5	146.3
41	84.0	67.2	100.8



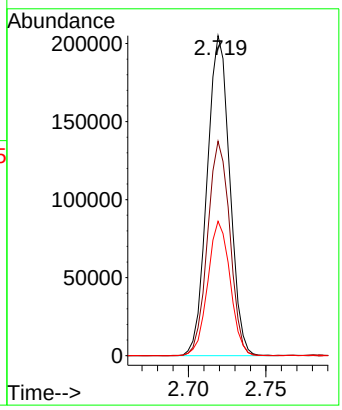


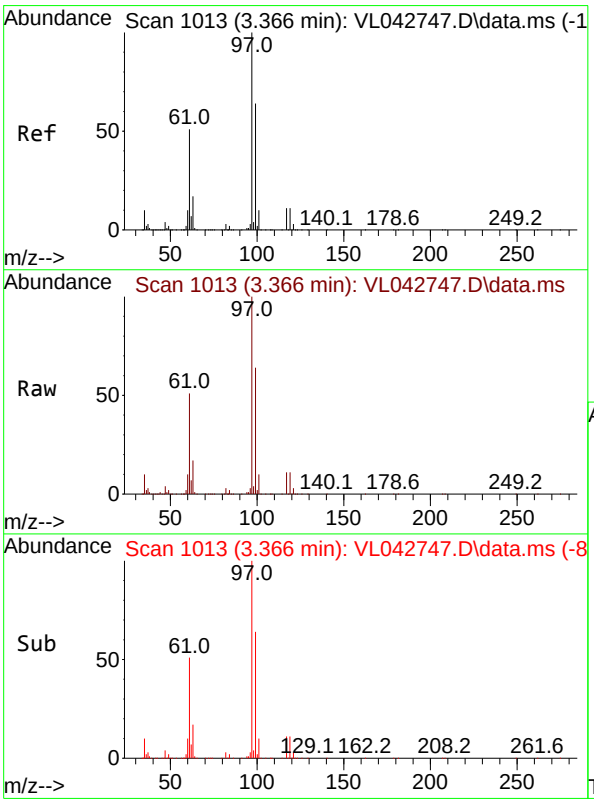
#31
cis-1,2-Dichloroethene
Concen: 9.479 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 61 Resp: 207751

Ion	Ratio	Lower	Upper
61	100		
96	66.9	53.5	80.3
98	42.0	33.6	50.4

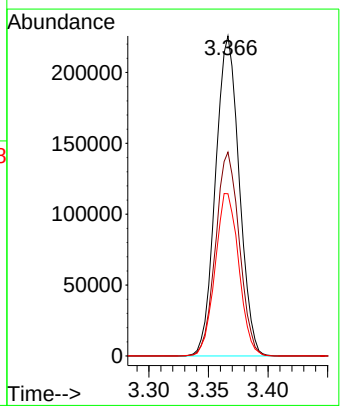


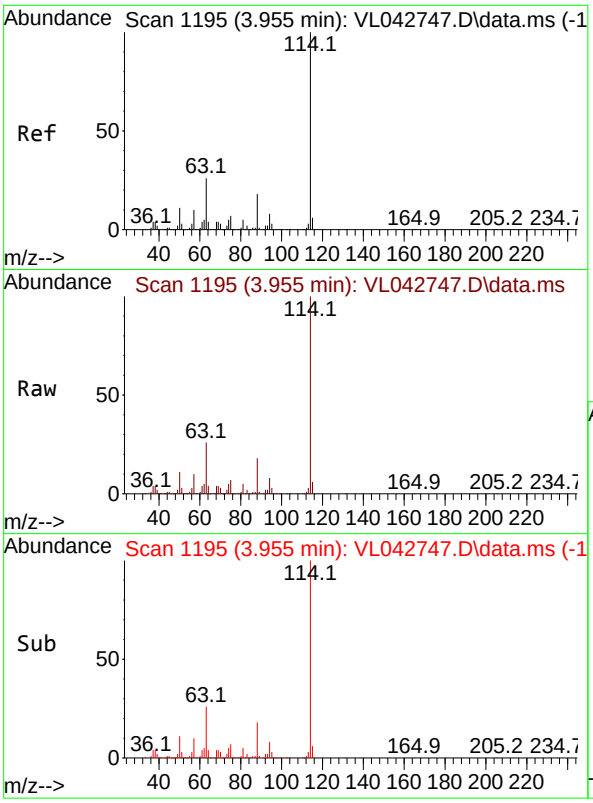


#32
1,1,1-Trichloroethane
Concen: 9.069 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 97 Resp: 311368

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	51.1	40.9	61.3



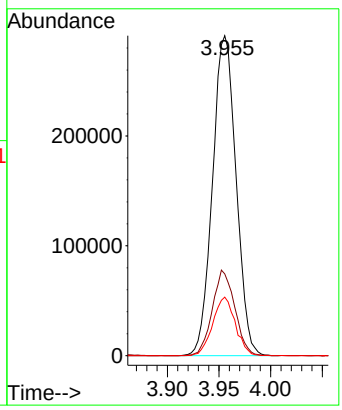


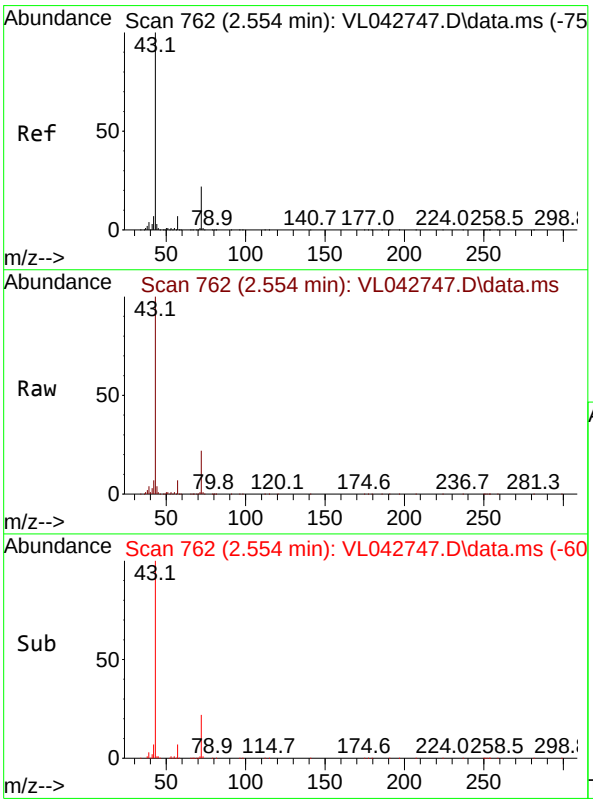
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:114 Resp: 462763

Ion	Ratio	Lower	Upper
114	100		
63	25.6	20.5	30.7
88	17.5	14.0	21.0

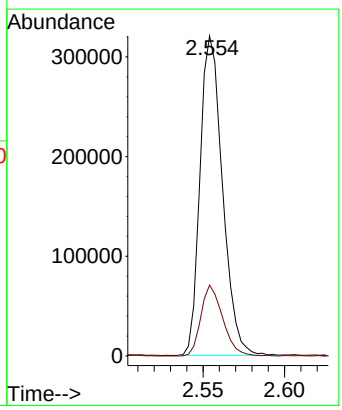


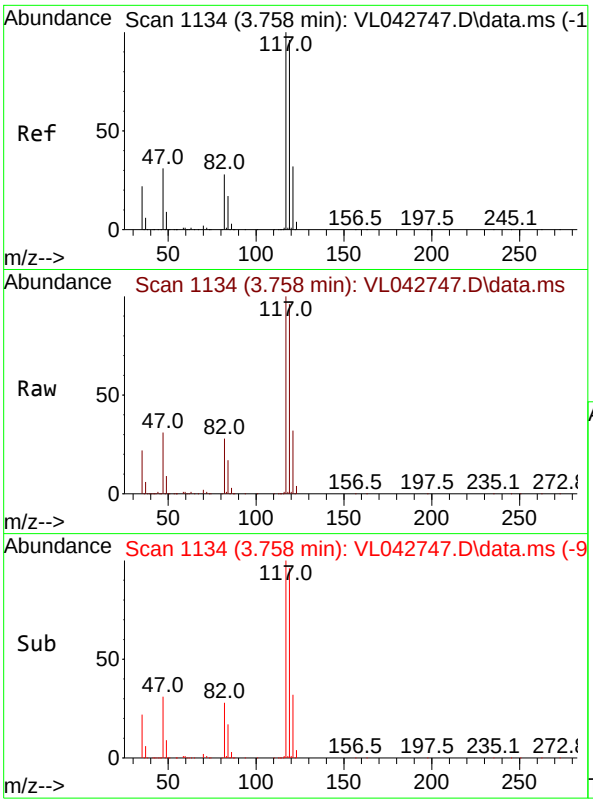


#34
2-Butanone
Concen: 9.361 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 43 Resp: 306858

Ion	Ratio	Lower	Upper
43	100		
72	21.7	17.4	26.0



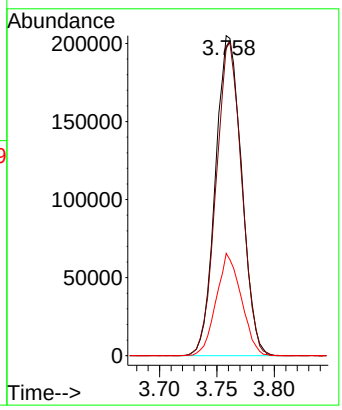


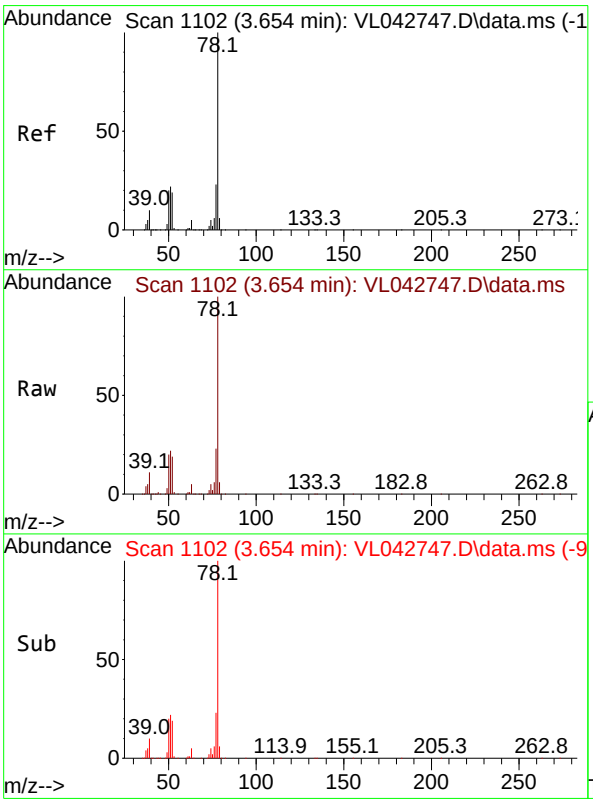
#35
Carbon Tetrachloride
Concen: 9.436 ppbv
RT: 3.758 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 324501

Ion	Ratio	Lower	Upper
117	100		
119	96.4	77.1	115.7
121	31.9	25.5	38.3

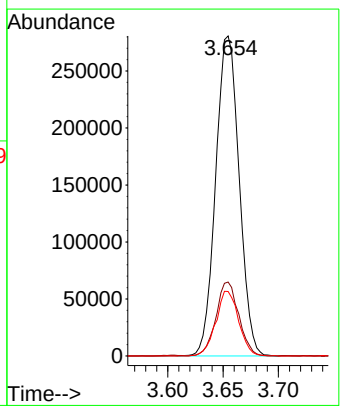


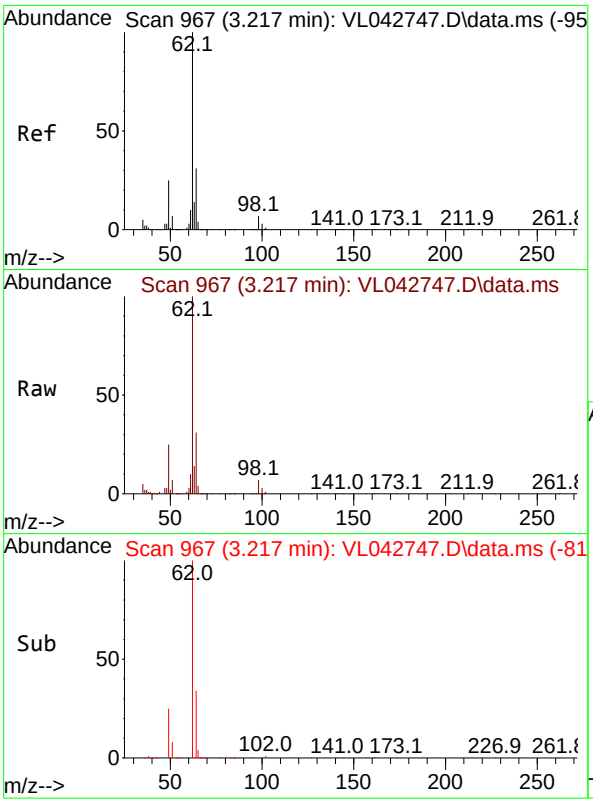


#36
Benzene
Concen: 9.459 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 78 Resp: 414863

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.5	27.7
50	20.2	16.2	24.2



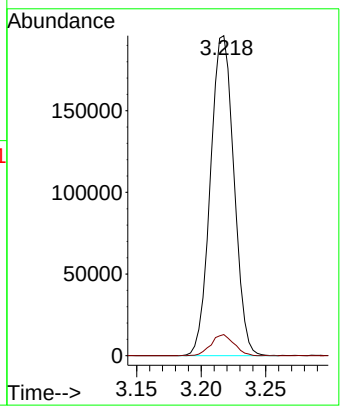


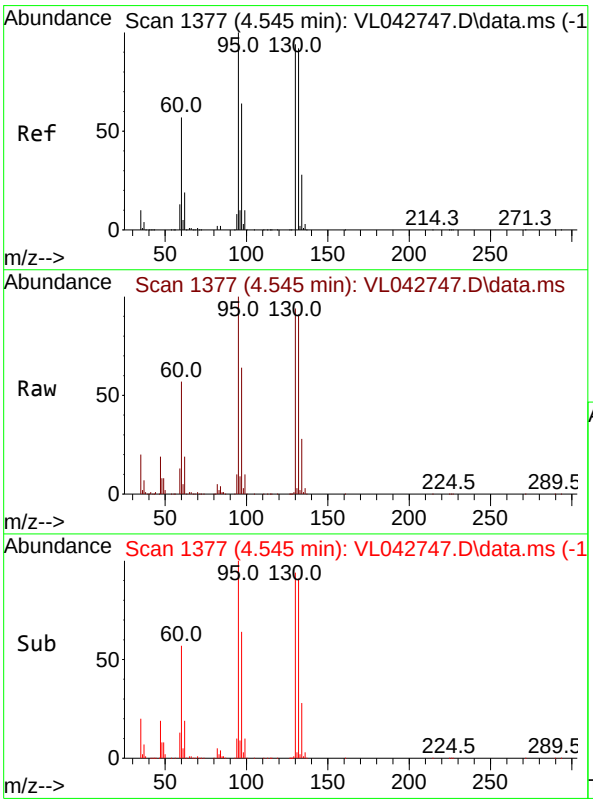
#37
1,2-Dichloroethane
Concen: 9.403 ppbv
RT: 3.217 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 248414

Ion	Ratio	Lower	Upper
62	100		
98	6.5	5.2	7.8

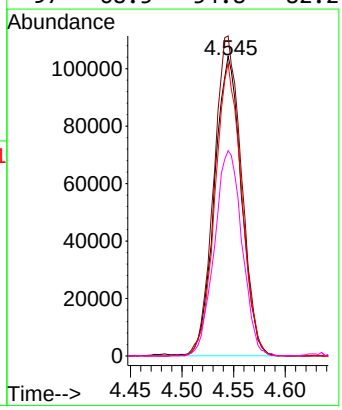


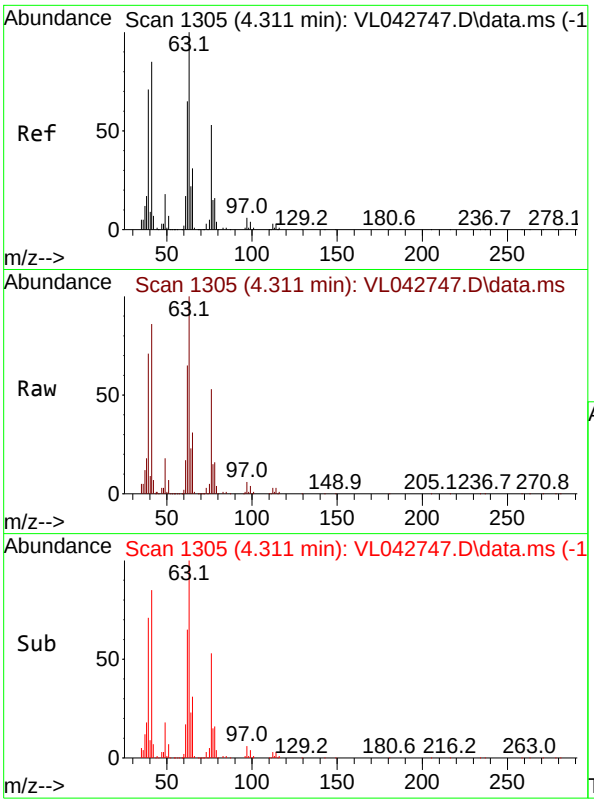


#38
Trichloroethene
Concen: 8.926 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:130 Resp: 188750

Ion	Ratio	Lower	Upper
130	100		
95	106.8	85.4	128.2
132	97.7	78.2	117.2
97	68.5	54.8	82.2



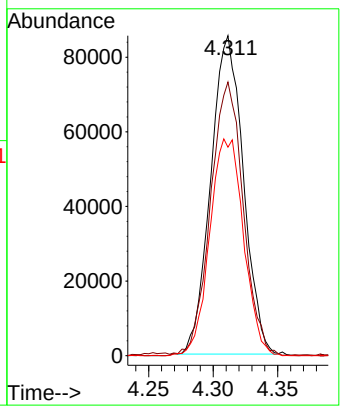


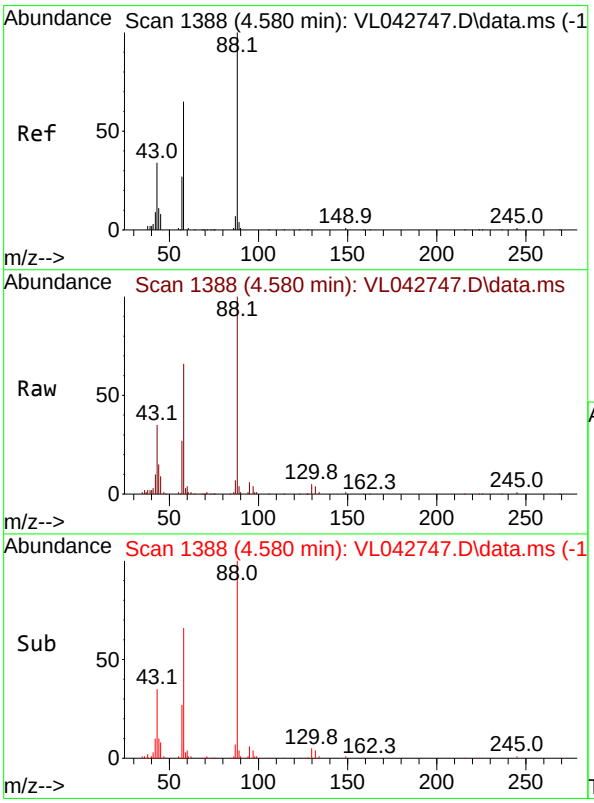
#39
1,2-Dichloropropane
Concen: 9.251 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 63 Resp: 149771

Ion	Ratio	Lower	Upper
63	100		
41	85.3	68.2	102.4
62	65.0	52.0	78.0

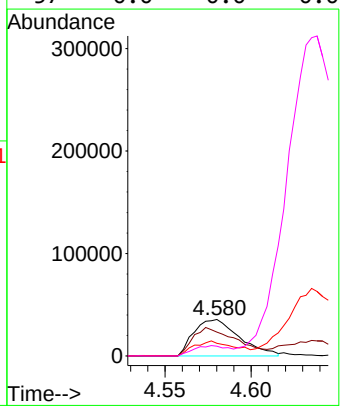


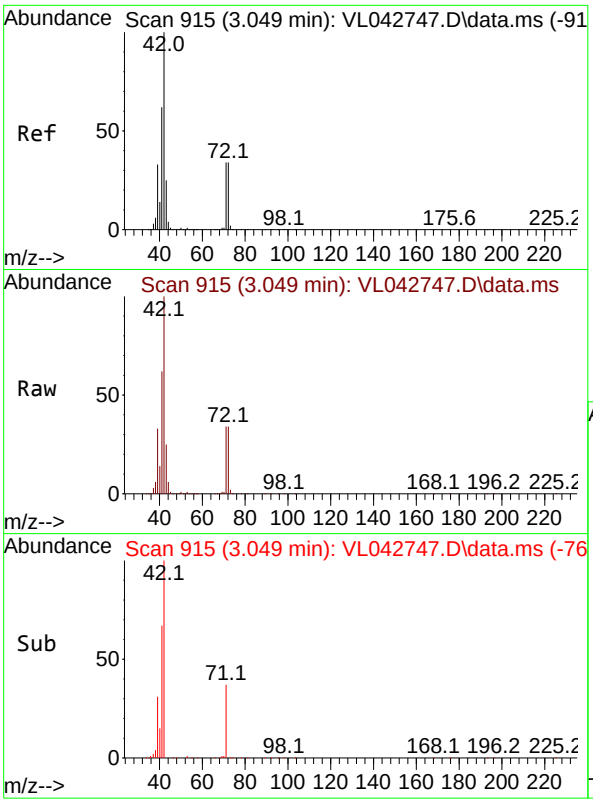


#40
1,4-Dioxane
Concen: 8.569 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 88 Resp: 65413

Ion	Ratio	Lower	Upper
88	100		
58	73.5	58.8	88.2
43	36.1	28.9	43.3
57	0.0	0.0	0.0



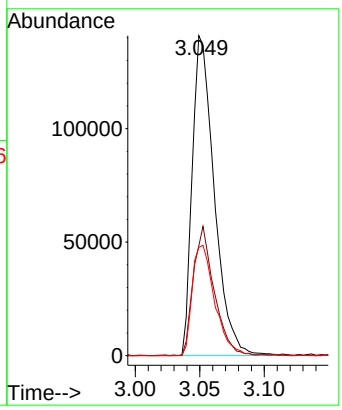


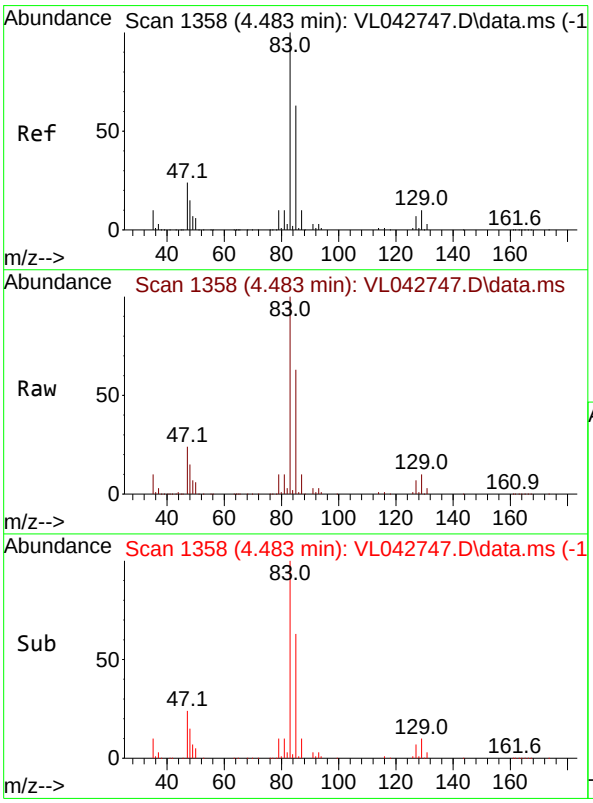
#41
Tetrahydrofuran
Concen: 10.160 ppbv
RT: 3.049 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 42 Resp: 167323

Ion	Ratio	Lower	Upper
42	100		
72	38.6	30.9	46.3
71	35.8	28.6	43.0

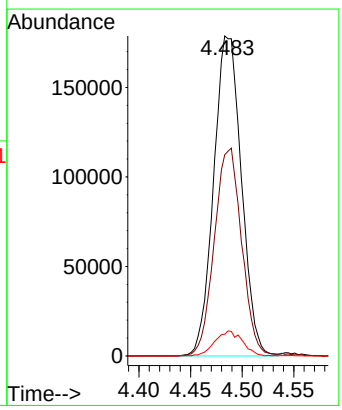


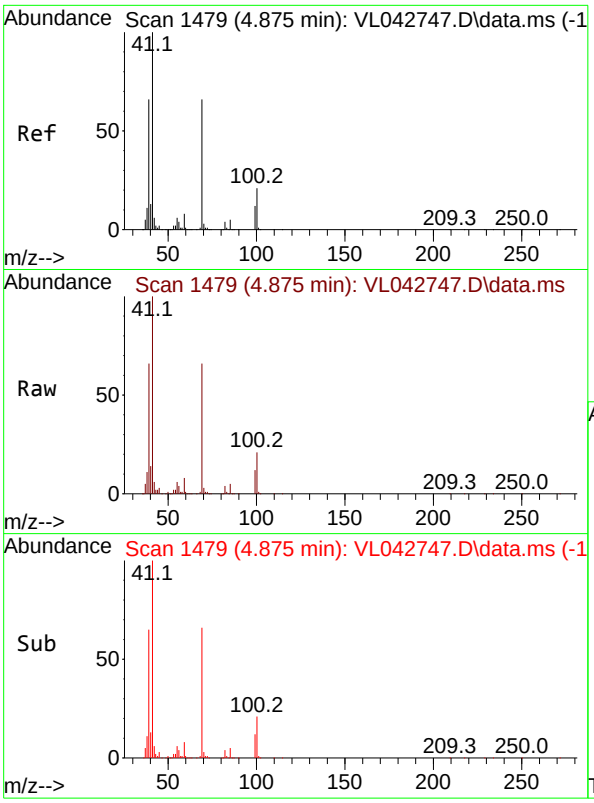


#42
Bromodichloromethane
Concen: 9.713 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 83 Resp: 334531

Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.2	75.4
127	6.8	5.4	8.2



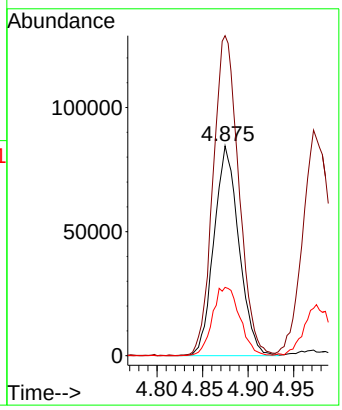


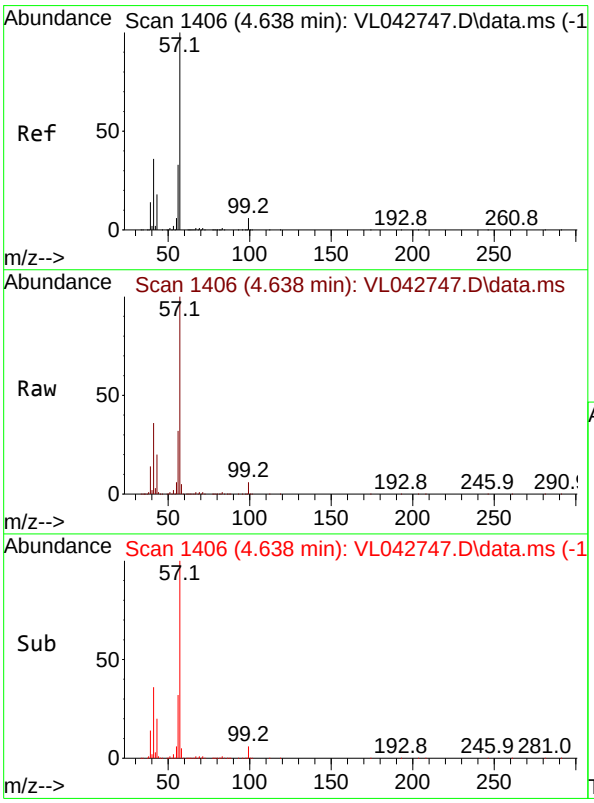
#43
Methyl Methacrylate
Concen: 10.331 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 161053

Ion	Ratio	Lower	Upper
69	100		
41	157.1	125.7	188.5
100	35.7	28.6	42.8

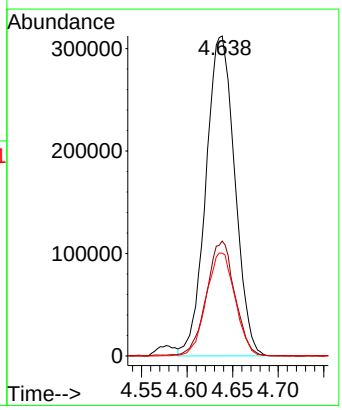


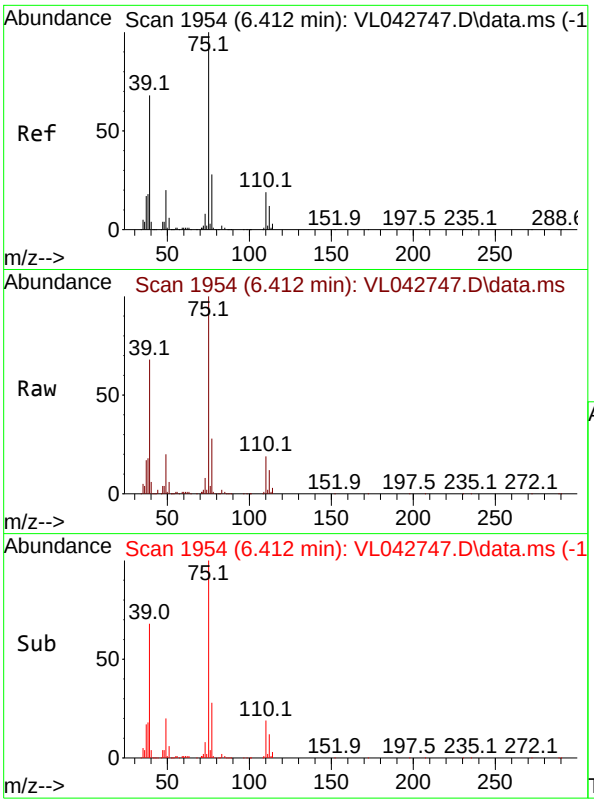


#44
2,2,4-Trimethylpentane
Concen: 9.623 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 57 Resp: 687885

Ion	Ratio	Lower	Upper
57	100		
41	35.4	28.3	42.5
56	32.2	25.8	38.6



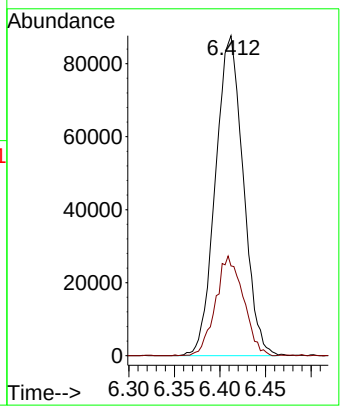


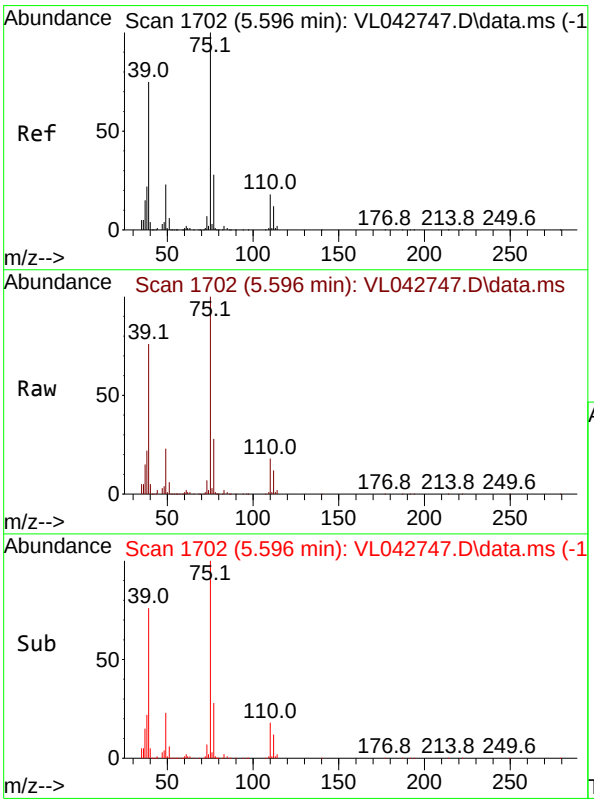
#45
t-1,3-Dichloropropene
Concen: 10.633 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 75 Resp: 185965

Ion	Ratio	Lower	Upper
75	100		
77	28.0	22.4	33.6

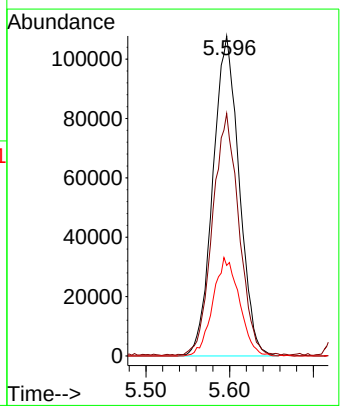


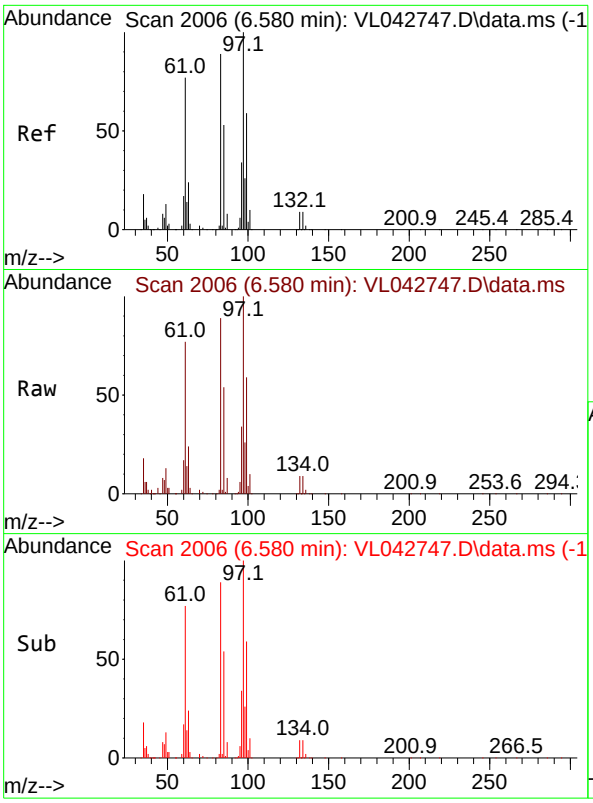


#46
cis-1,3-Dichloropropene
Concen: 10.587 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 75 Resp: 234594

Ion	Ratio	Lower	Upper
75	100		
39	75.2	60.2	90.2
77	28.3	22.6	34.0



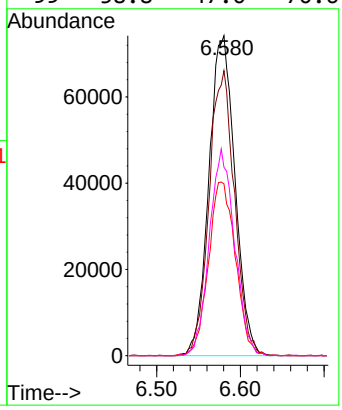


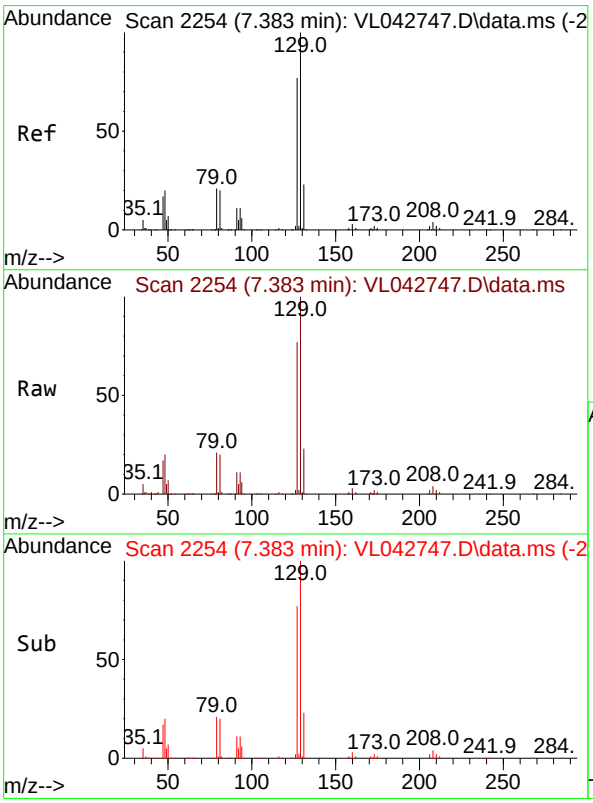
#47
1,1,2-Trichloroethane
Concen: 9.297 ppbv
RT: 6.580 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 97 Resp: 160431

Ion	Ratio	Lower	Upper
97	100		
83	88.9	71.1	106.7
85	53.7	43.0	64.4
99	58.8	47.0	70.6

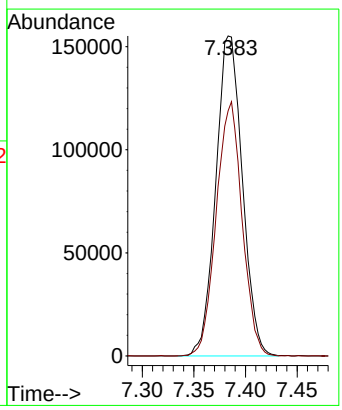


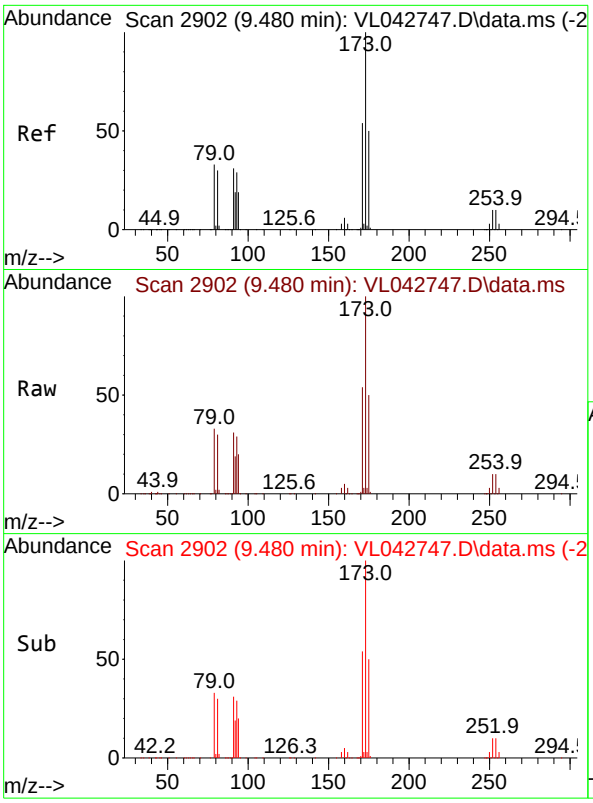


#48
Dibromochloromethane
Concen: 10.141 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:129 Resp: 277832

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.7	116.1



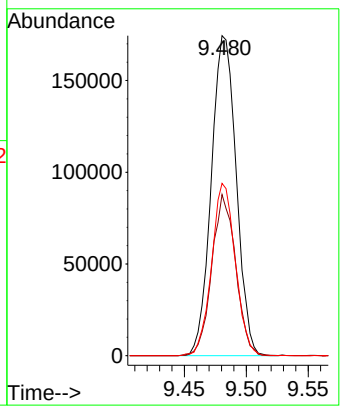


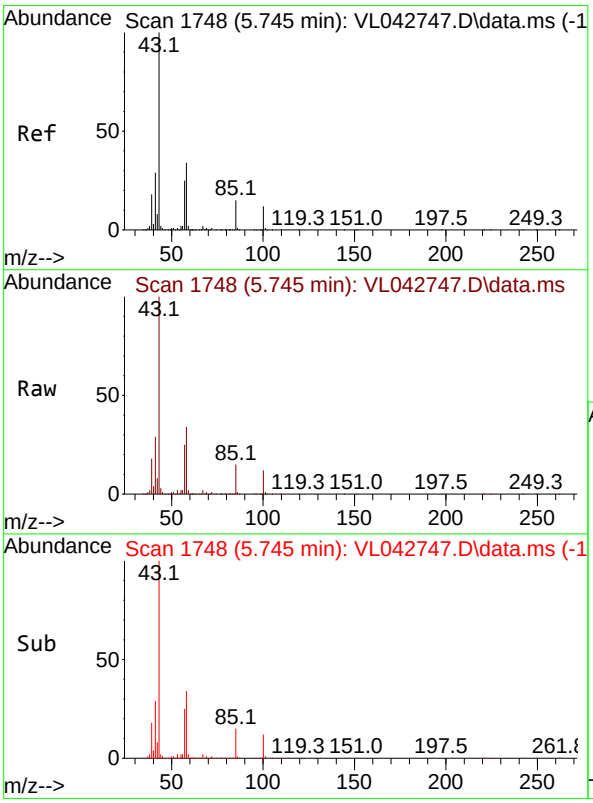
#49
Bromoform
Concen: 10.256 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:173 Resp: 244997

Ion	Ratio	Lower	Upper
173	100		
175	48.0	38.4	57.6
171	51.1	40.9	61.3

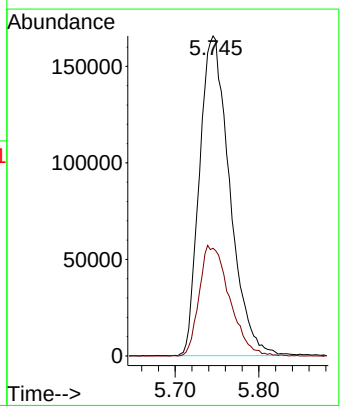


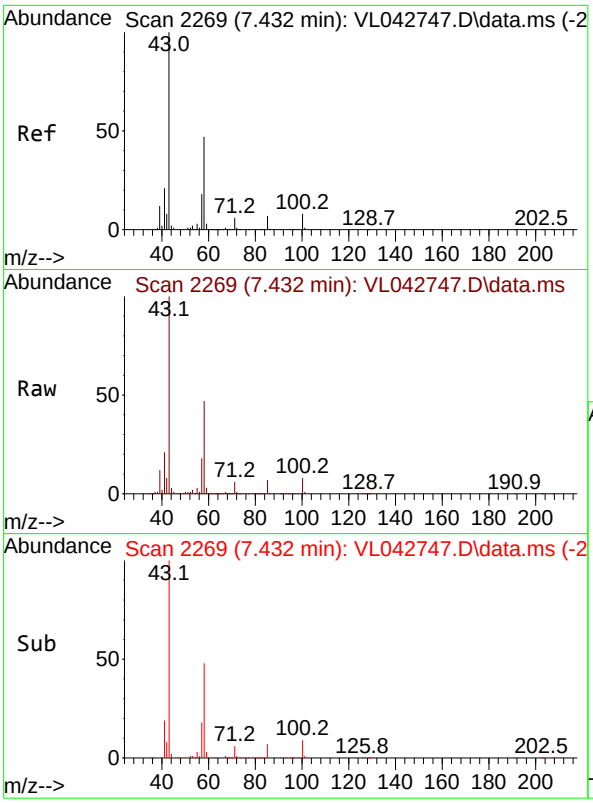


#50
4-Methyl-2-Pentanone
Concen: 9.914 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 43 Resp: 413966

Ion	Ratio	Lower	Upper
43	100		
58	34.8	27.8	41.8



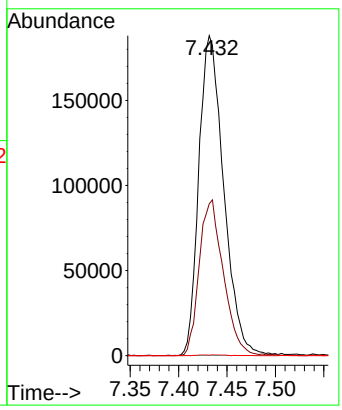


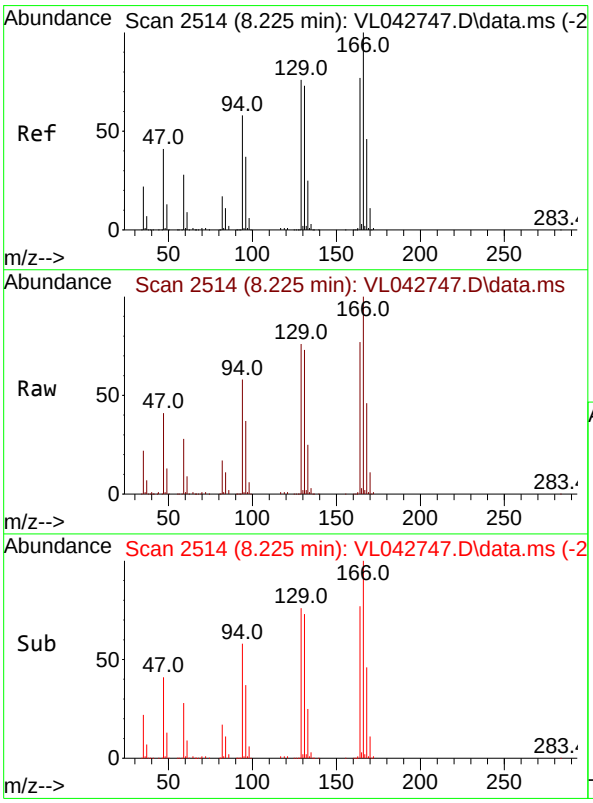
#51
2-Hexanone
Concen: 10.532 ppbv
RT: 7.432 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 336048

Ion	Ratio	Lower	Upper
43	100		
58	47.5	38.0	57.0
98	0.3	0.2	0.4

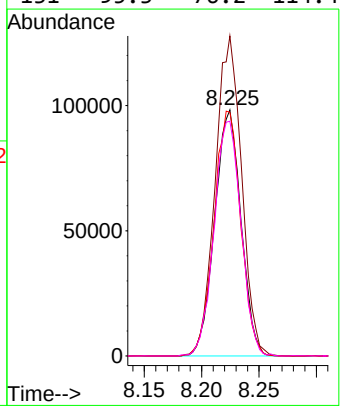


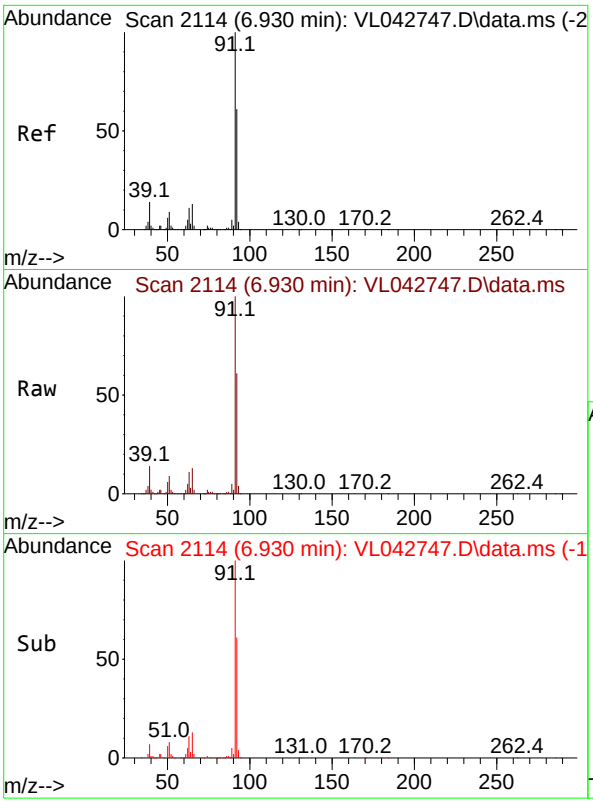


#52
Tetrachloroethene
Concen: 8.609 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:164 Resp: 156930

Ion	Ratio	Lower	Upper
164	100		
166	130.0	104.0	156.0
129	99.0	79.2	118.8
131	95.3	76.2	114.4



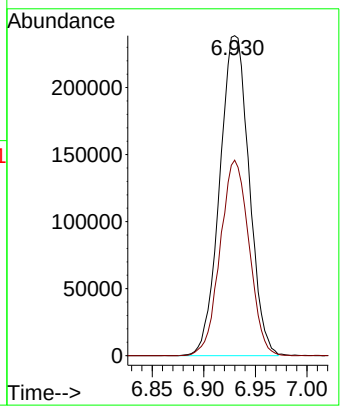


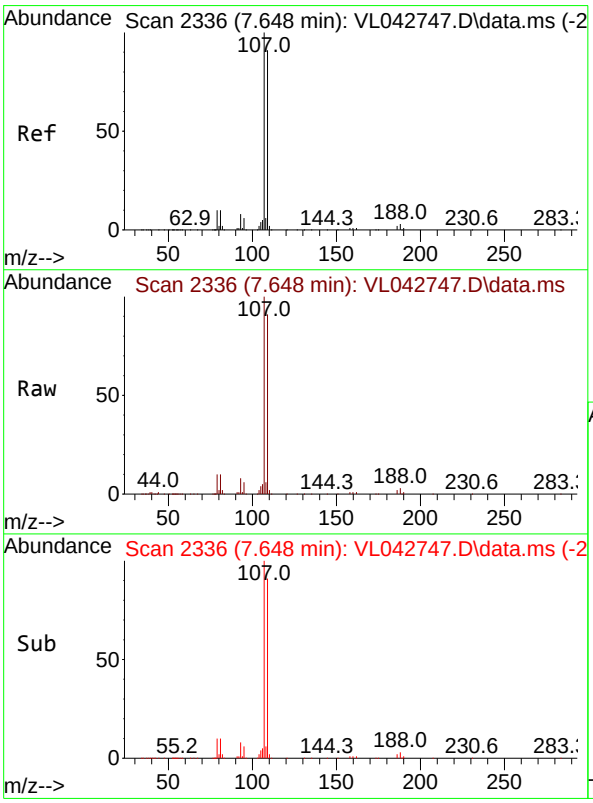
#53
Toluene
Concen: 10.042 ppbv
RT: 6.930 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 472953

Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.0	72.0

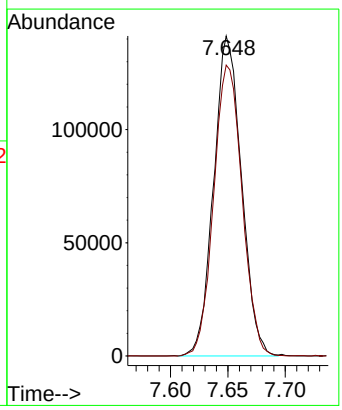


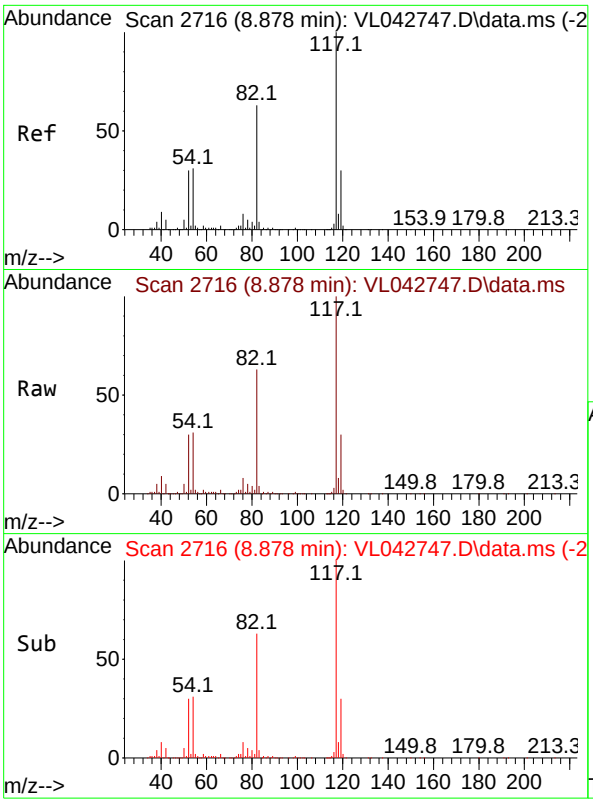


#54
1,2-Dibromoethane
Concen: 9.745 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:107 Resp: 238045

Ion	Ratio	Lower	Upper
107	100		
109	90.9	72.7	109.1



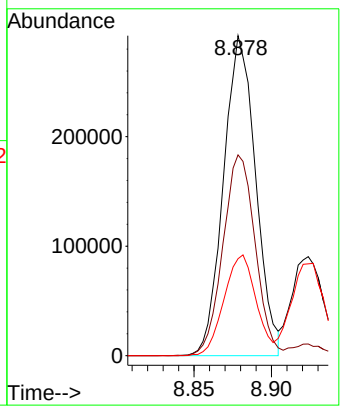


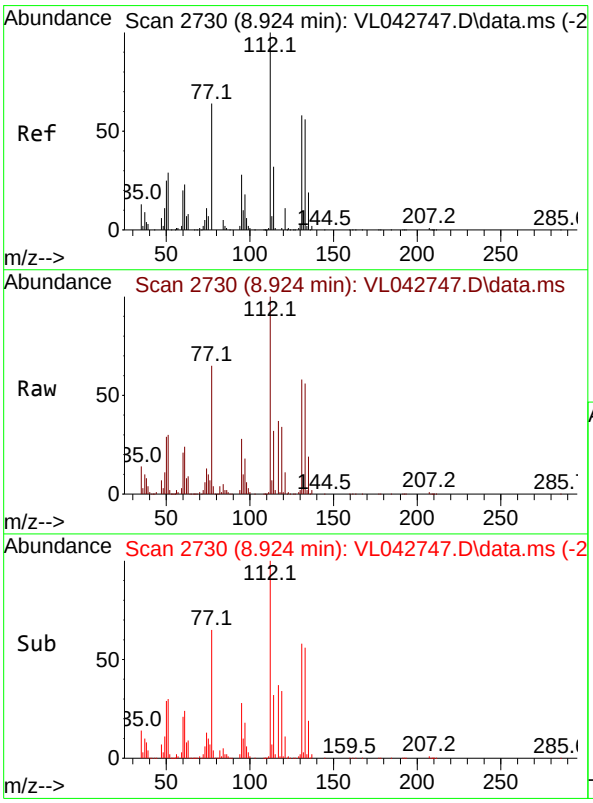
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 422206

Ion	Ratio	Lower	Upper
117	100		
82	66.6	53.3	79.9
119	32.2	25.8	38.6

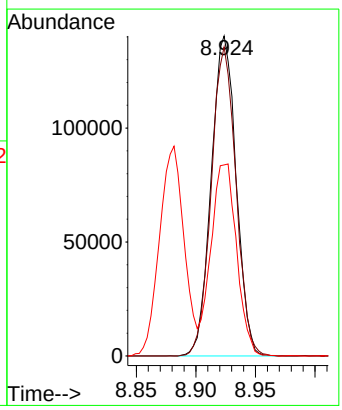


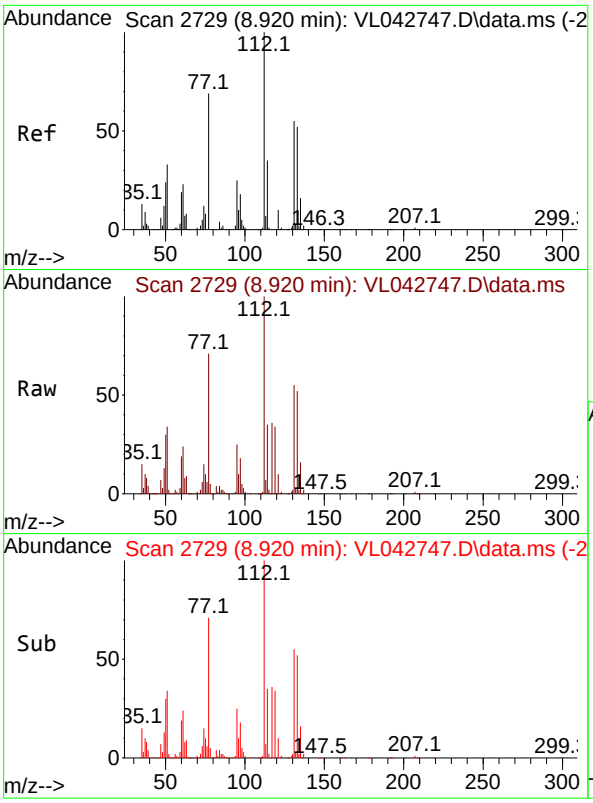


#56
1,1,1,2-Tetrachloroethane
Concen: 9.302 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:131 Resp: 204205

Ion	Ratio	Lower	Upper
131	100		
133	96.0	76.8	115.2
119	62.1	49.7	74.5



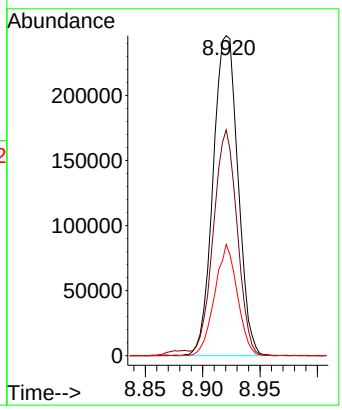


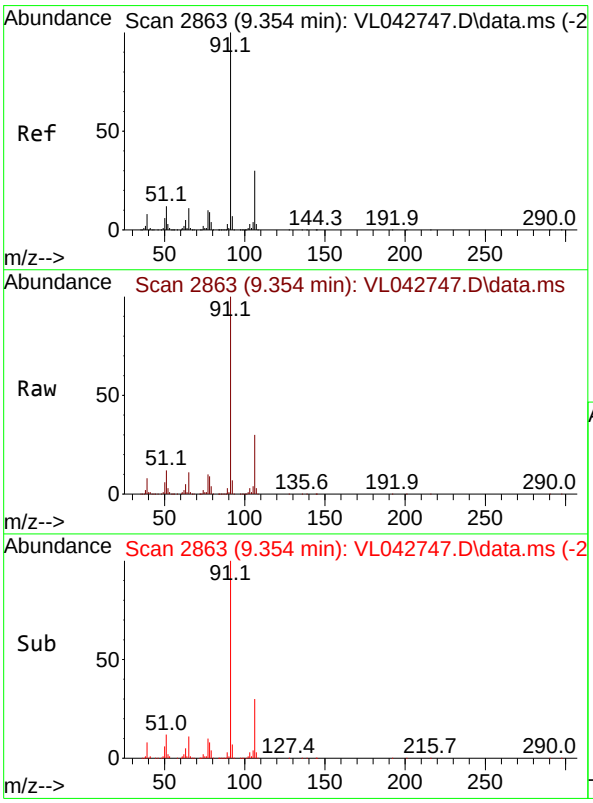
#57
Chlorobenzene
Concen: 9.082 ppbv
RT: 8.920 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:112 Resp: 371117

Ion	Ratio	Lower	Upper
112	100		
77	70.5	56.4	84.6
114	34.7	31.2	38.2

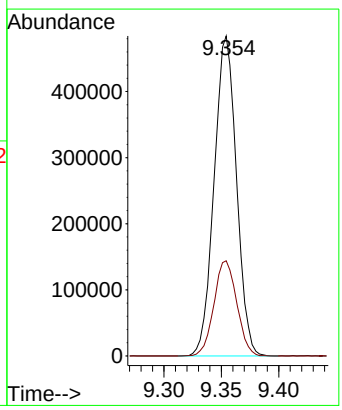


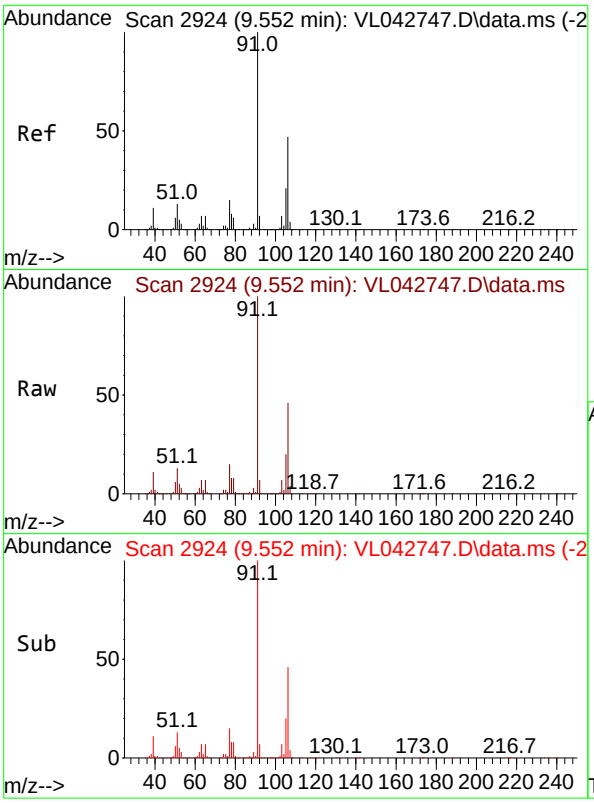


#58
Ethyl Benzene
Concen: 9.824 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 655020

Ion	Ratio	Lower	Upper
91	100		
106	29.7	23.8	35.6



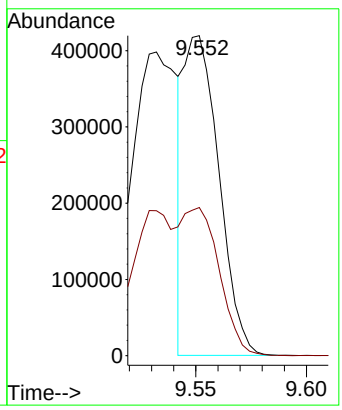


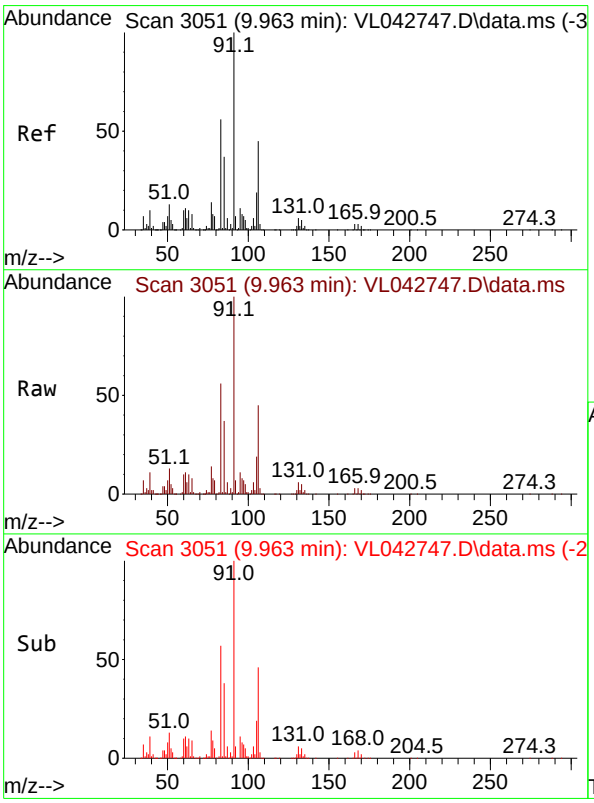
#59
m/p-Xylene
Concen: 8.639 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 460477

Ion	Ratio	Lower	Upper
91	100		
106	105.9	37.4	56.2#

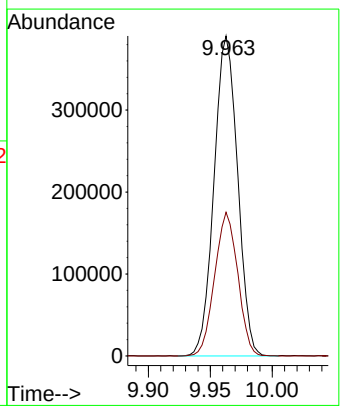


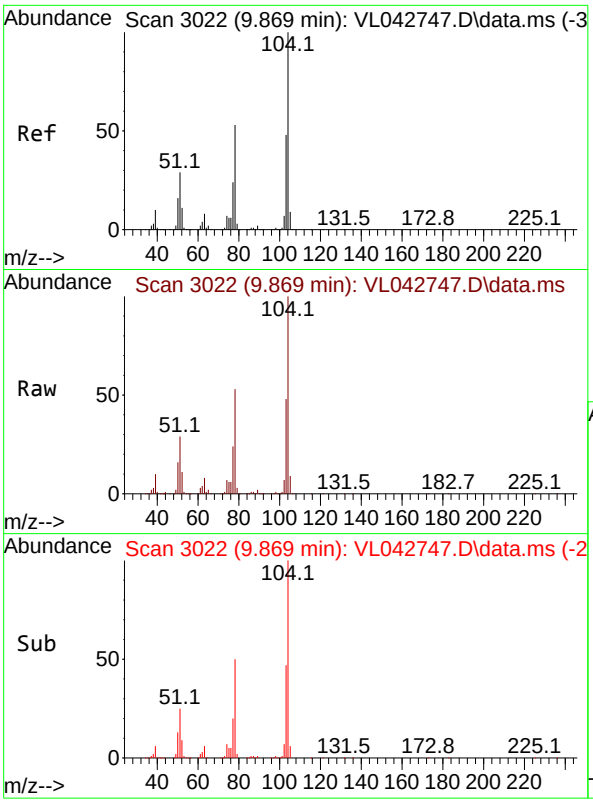


#60
o-Xylene
Concen: 9.715 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 517292

Ion	Ratio	Lower	Upper
91	100		
106	44.0	22.0	66.0



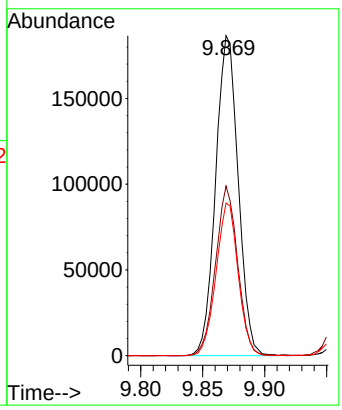


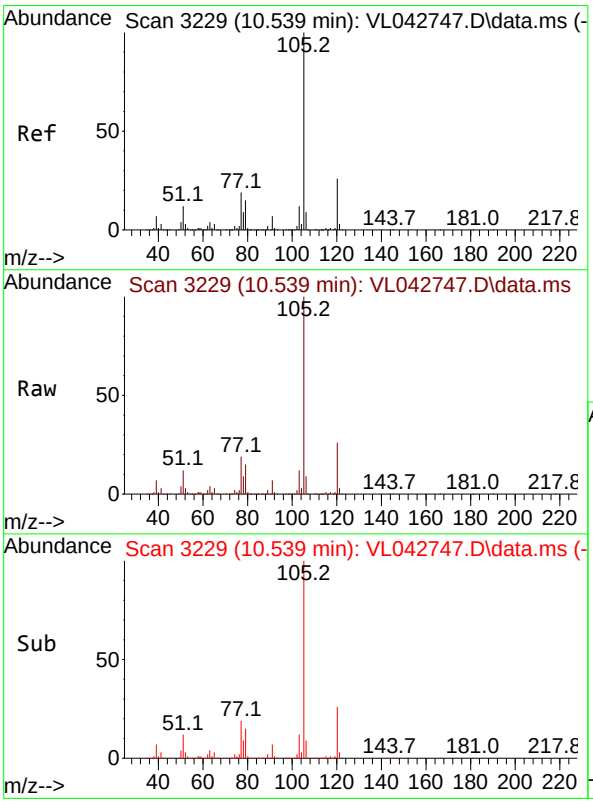
#61
Styrene
Concen: 10.568 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 236709

Ion	Ratio	Lower	Upper
104	100		
78	51.9	41.5	62.3
103	46.9	37.5	56.3

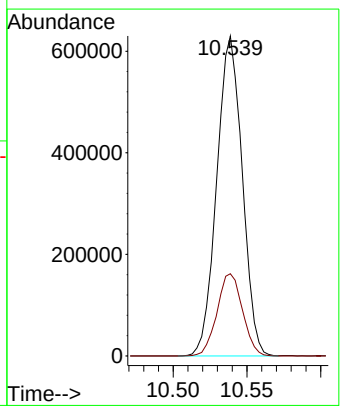


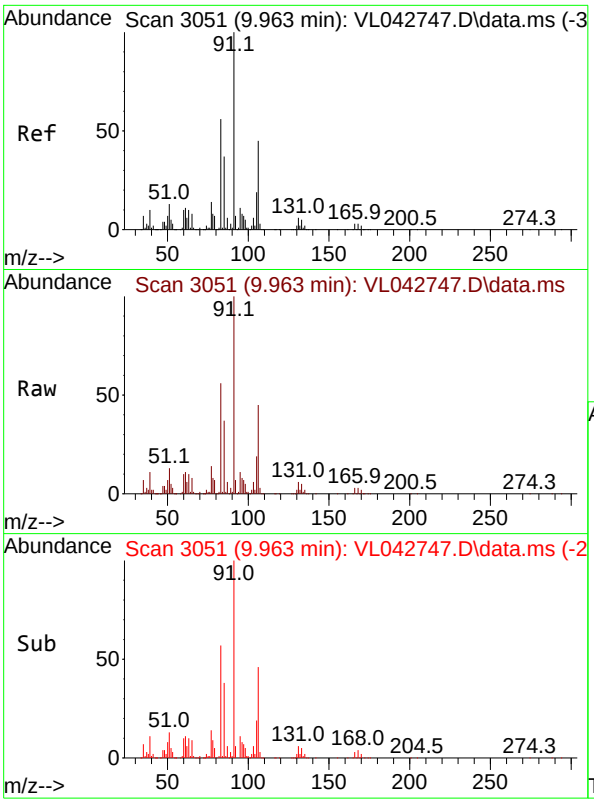


#62
Isopropylbenzene
Concen: 9.641 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 757219

Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.5	30.7



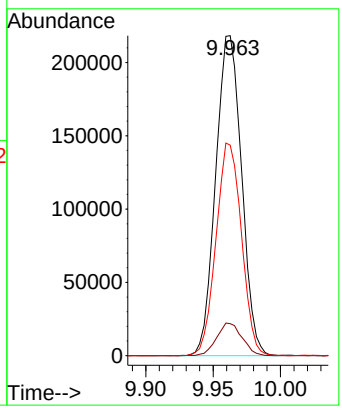


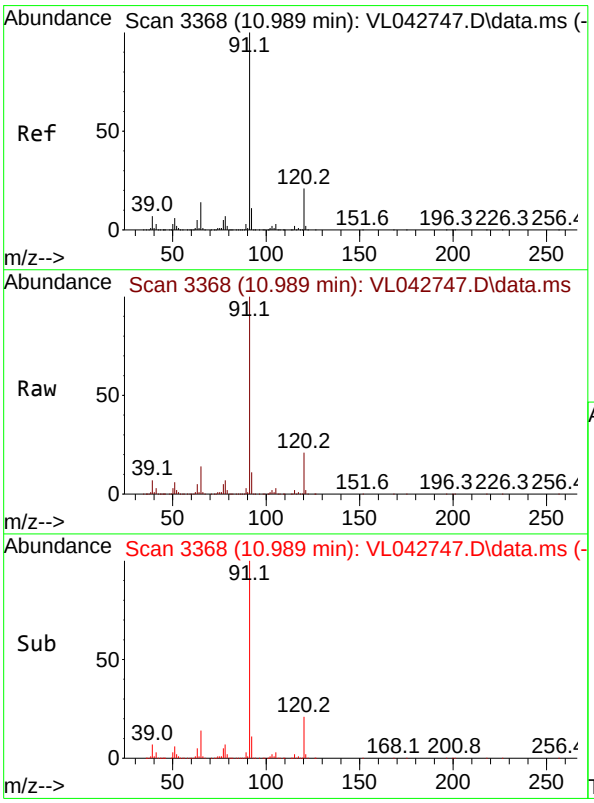
#63
1,1,2,2-Tetrachloroethane
Concen: 8.434 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 292568

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	15.0
85	65.1	32.6	97.7

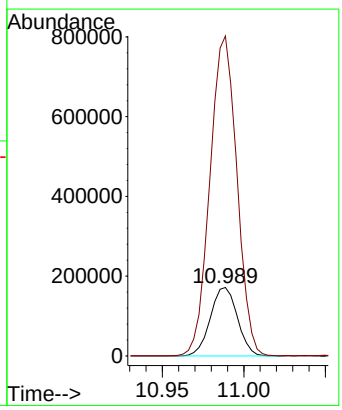


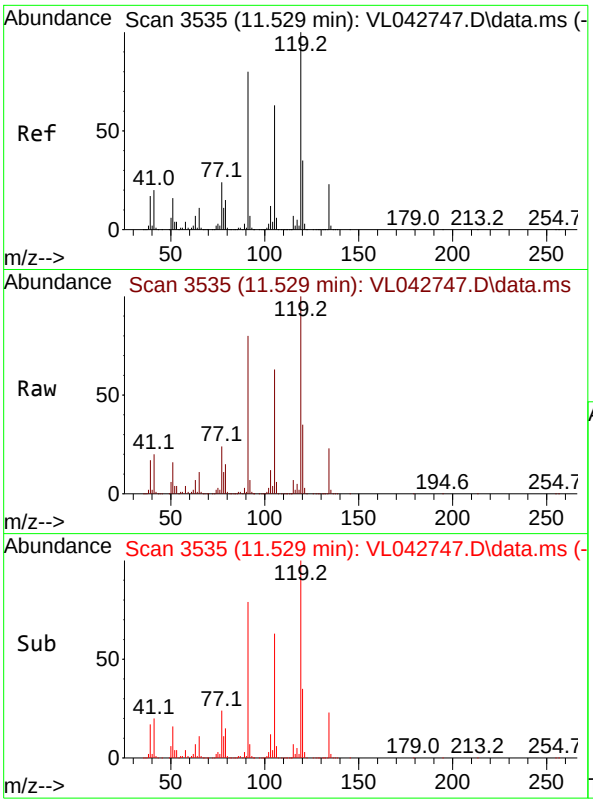


#64
n-propylbenzene
Concen: 9.675 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:120 Resp: 198109

Ion	Ratio	Lower	Upper
120	100		
91	465.9	372.7	559.1



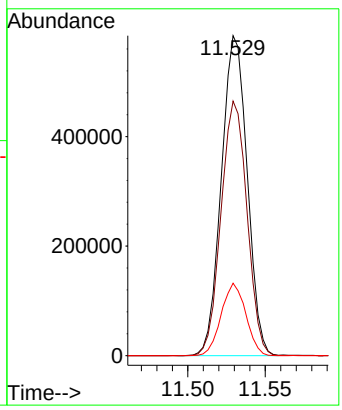


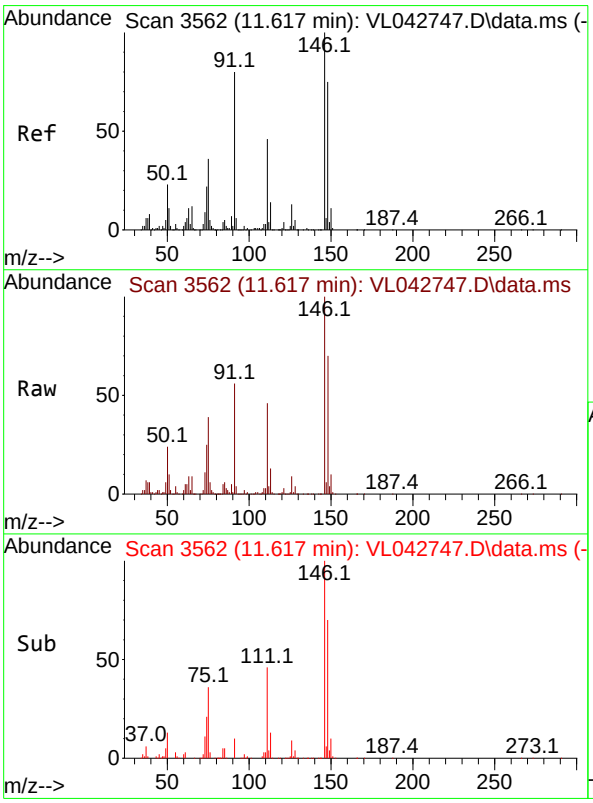
#65
tert-Butylbenzene
Concen: 9.721 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 678174

Ion	Ratio	Lower	Upper
119	100		
91	80.0	64.0	96.0
134	21.6	17.3	25.9

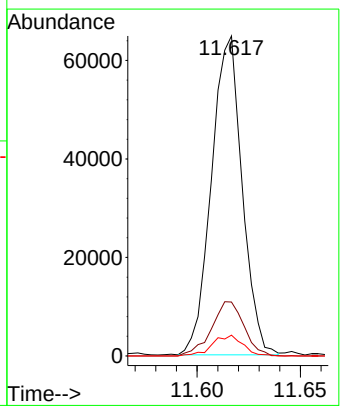


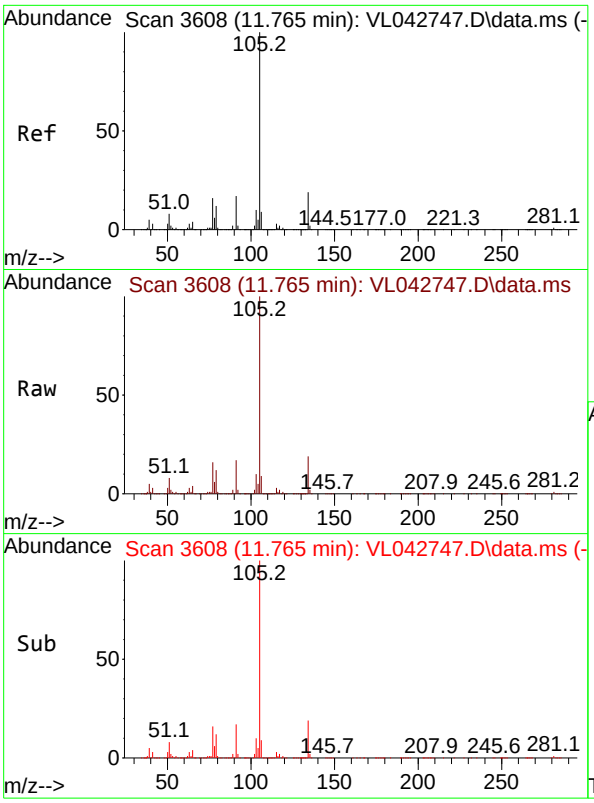


#66
Benzyl Chloride
Concen: 11.691 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 66954

Ion	Ratio	Lower	Upper
91	100		
126	18.0	14.4	21.6
128	6.5	5.2	7.8



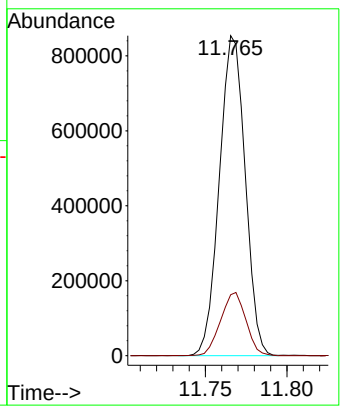


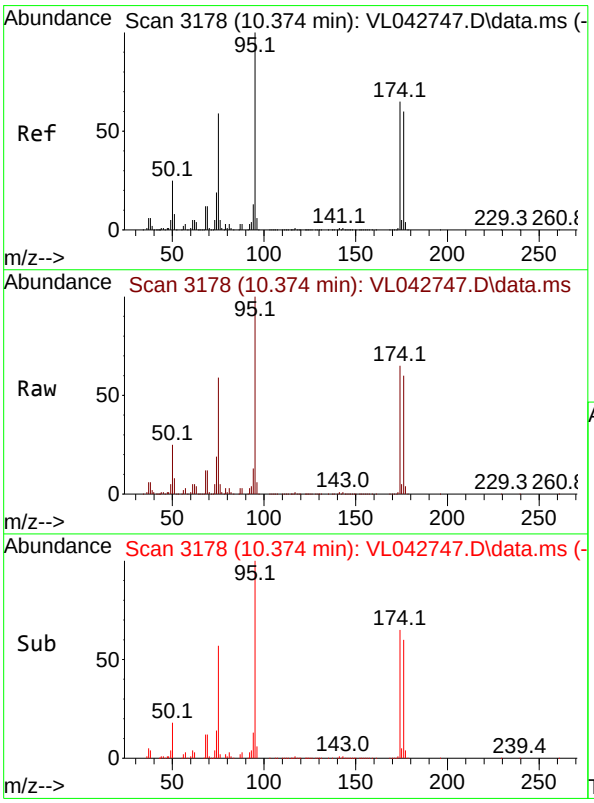
#67
sec-Butylbenzene
Concen: 9.468 ppbv
RT: 11.765 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 939396

Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.5	23.3

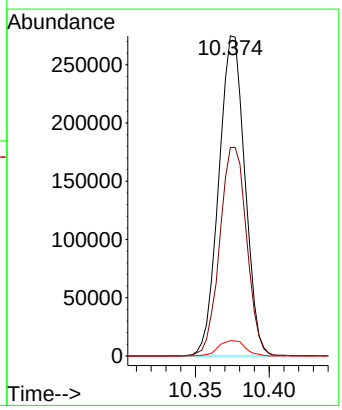


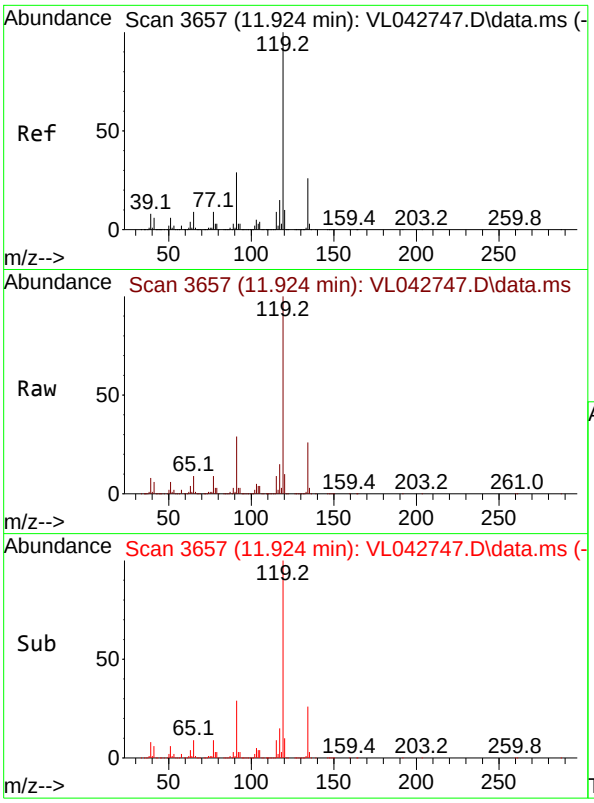


#68
1-Bromo-4-Fluorobenzene
Concen: 10.117 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 95 Resp: 338271

Ion	Ratio	Lower	Upper
95	100		
174	67.2	53.8	80.6
175	5.0	4.0	6.0



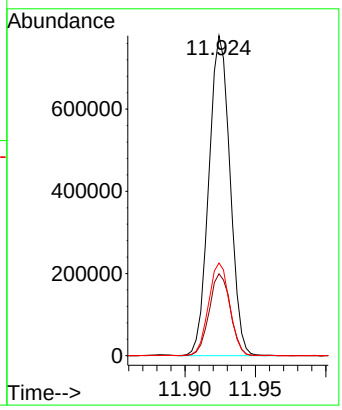


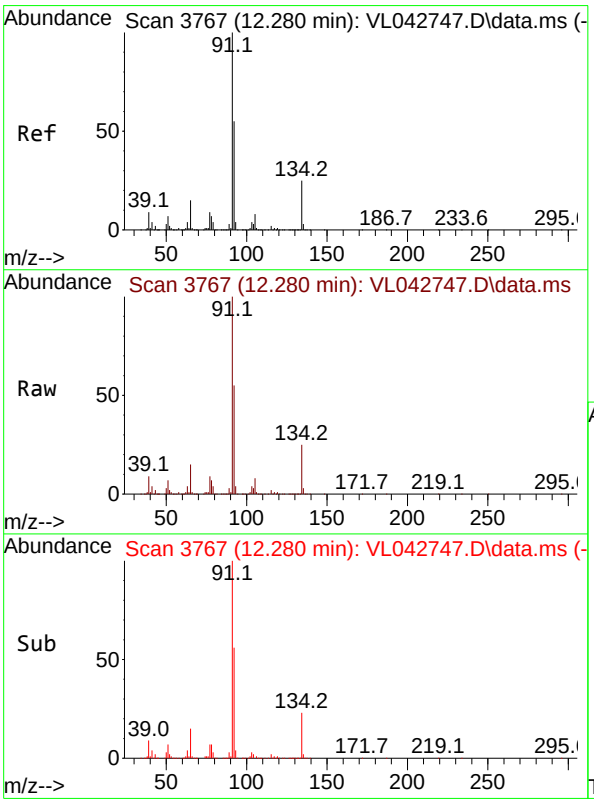
#69
p-Isopropyltoluene
Concen: 10.061 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 814010

Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.6	31.0
91	29.0	23.2	34.8

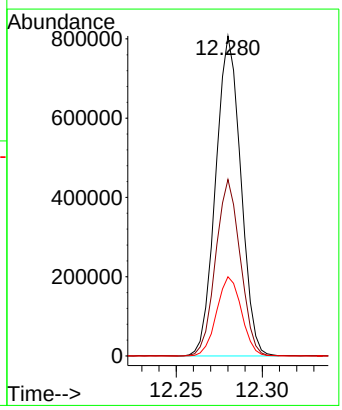


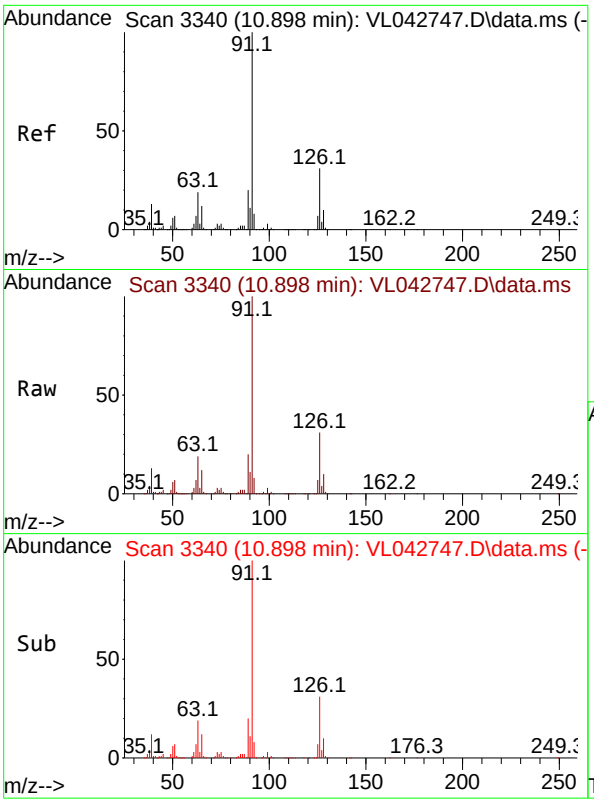


#70
n-Butylbenzene
Concen: 10.473 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 818457

Ion	Ratio	Lower	Upper
91	100		
92	54.3	43.4	65.2
134	24.5	19.6	29.4



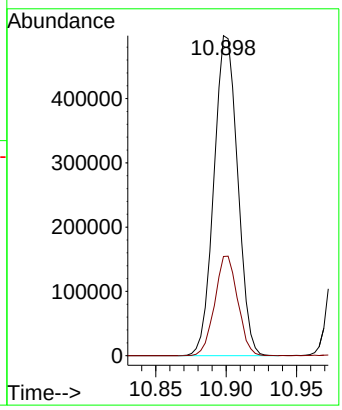


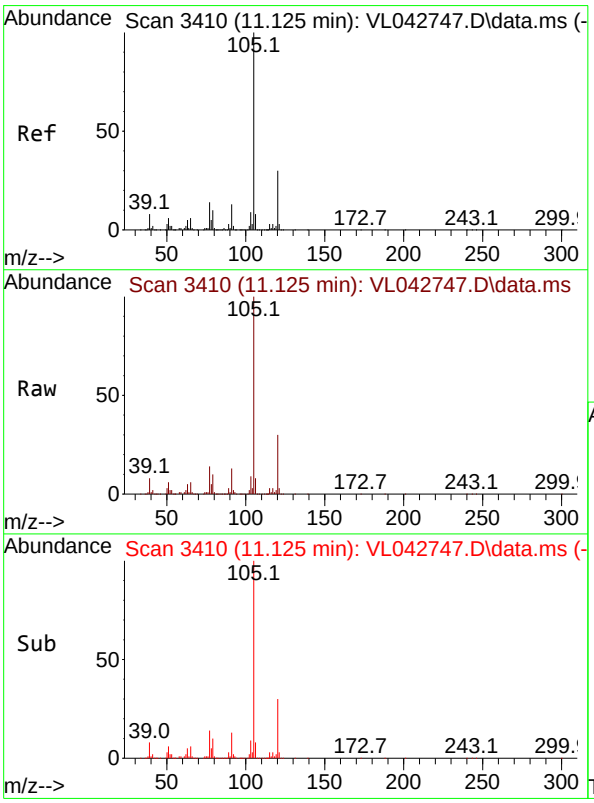
#71
2-Chlorotoluene
Concen: 9.708 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 584629

Ion	Ratio	Lower	Upper
91	100		
126	30.1	12.0	48.2

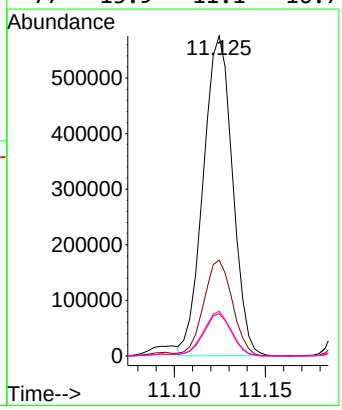


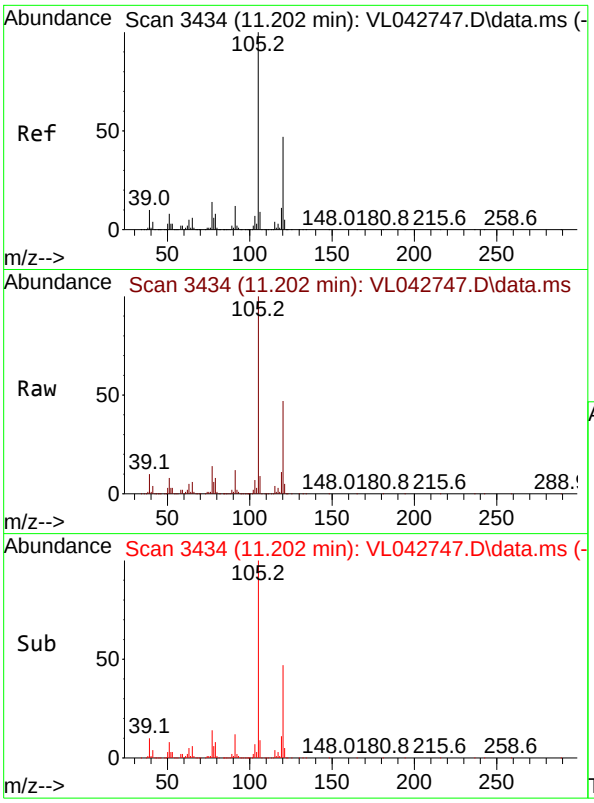


#72
4-Ethyltoluene
Concen: 10.120 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 643519

Ion	Ratio	Lower	Upper
105	100		
120	30.5	24.4	36.6
91	13.2	10.6	15.8
77	13.9	11.1	16.7



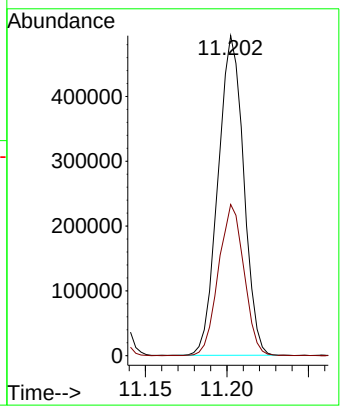


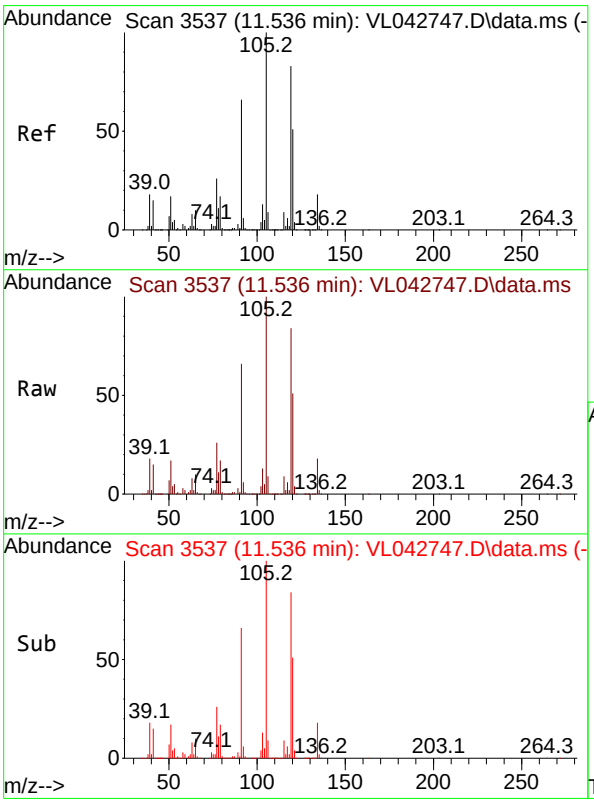
#73
1,3,5-Trimethylbenzene
Concen: 10.285 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 538451

Ion	Ratio	Lower	Upper
105	100		
120	47.3	37.8	56.8

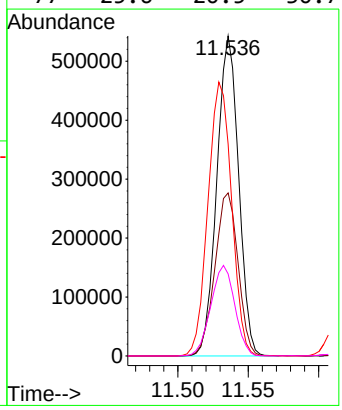


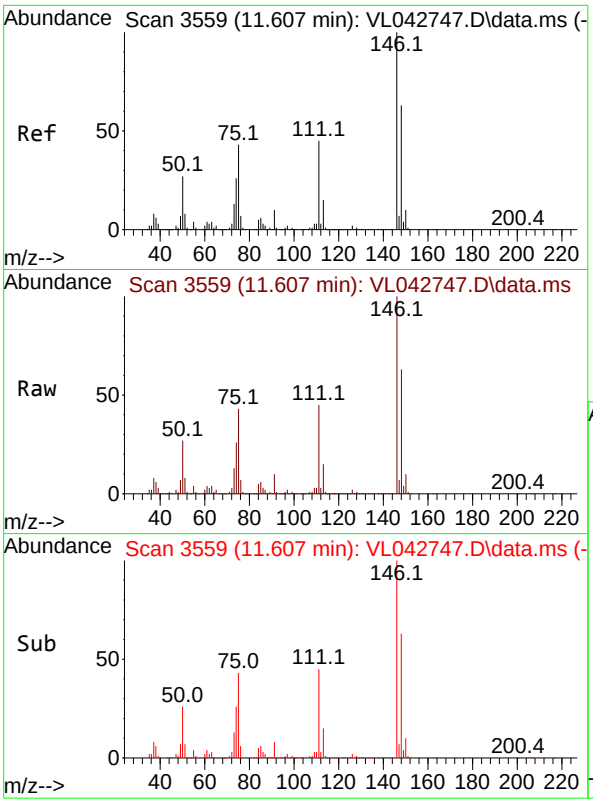


#74
1,2,4-Trimethylbenzene
Concen: 10.232 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 584447

Ion	Ratio	Lower	Upper
105	100		
120	51.0	40.8	61.2
91	66.2	53.0	79.4
77	25.6	20.5	30.7



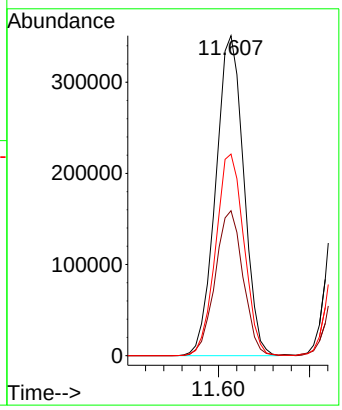


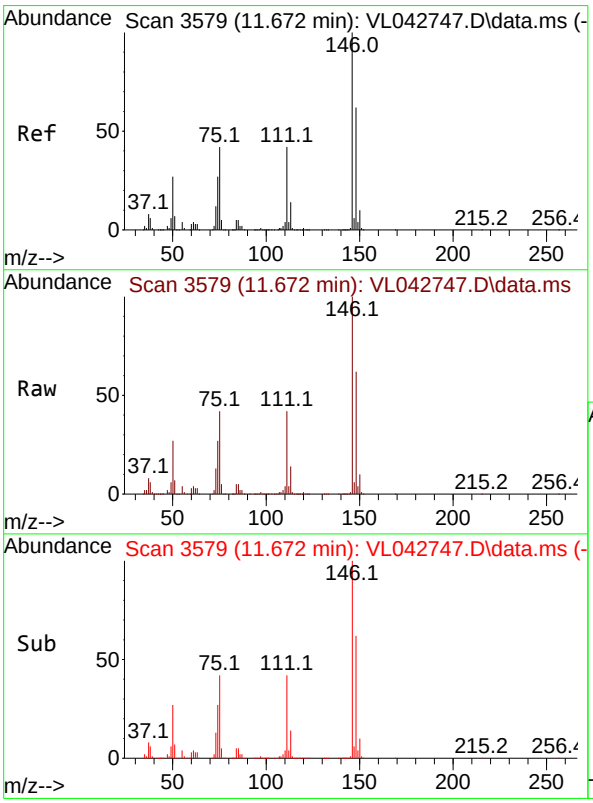
#75
1,3-Dichlorobenzene
Concen: 9.355 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 374587

Ion	Ratio	Lower	Upper
146	100		
111	45.3	22.7	68.0
148	63.7	31.9	95.5

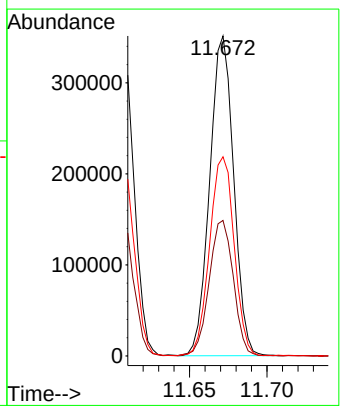


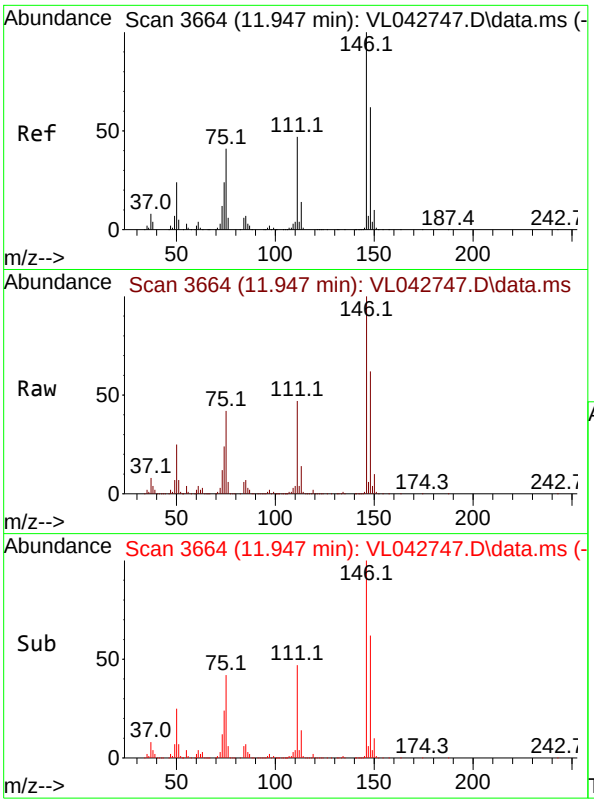


#76
1,4-Dichlorobenzene
Concen: 9.649 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:146 Resp: 378093

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.4	64.2
148	64.2	32.1	96.3



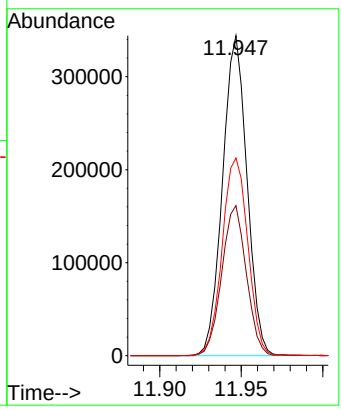


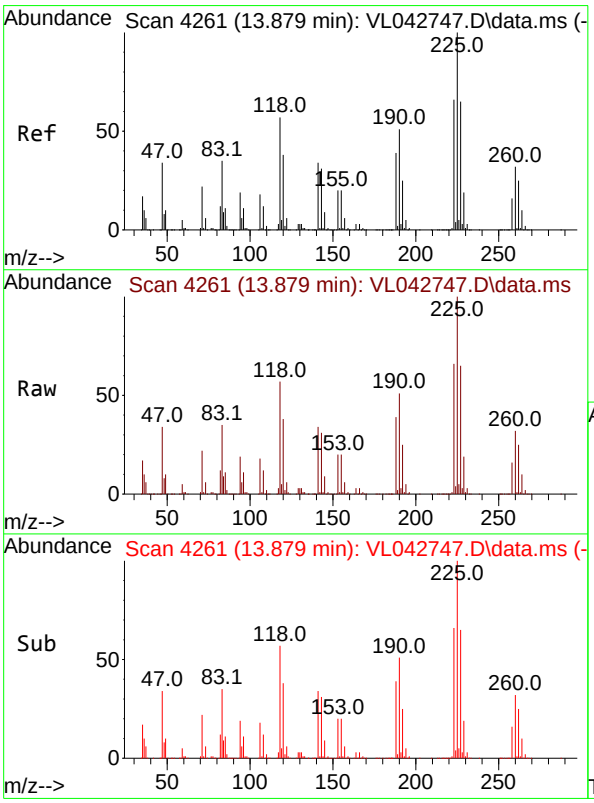
#77
1,2-Dichlorobenzene
Concen: 9.102 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 358206

Ion	Ratio	Lower	Upper
146	100		
111	47.4	23.7	71.1
148	65.1	32.6	97.7

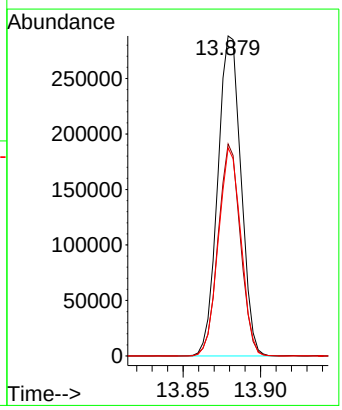


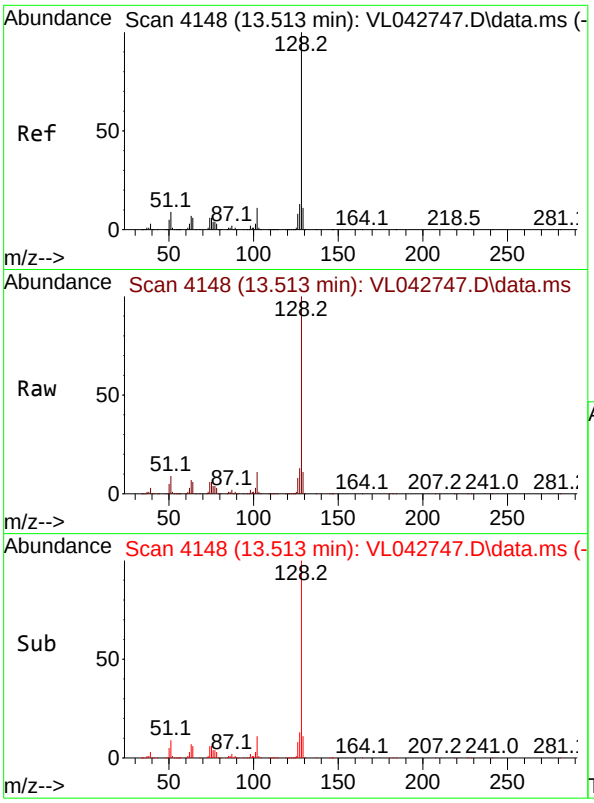


#78
Hexachloro-1,3-Butadiene
Concen: 8.444 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:225 Resp: 300801

Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.7	76.1
227	63.1	50.5	75.7



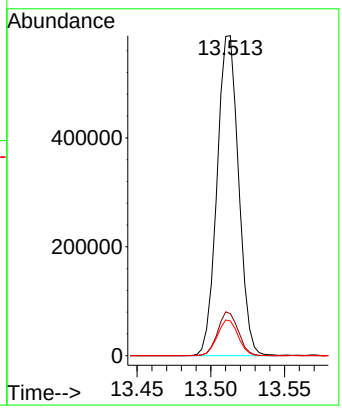


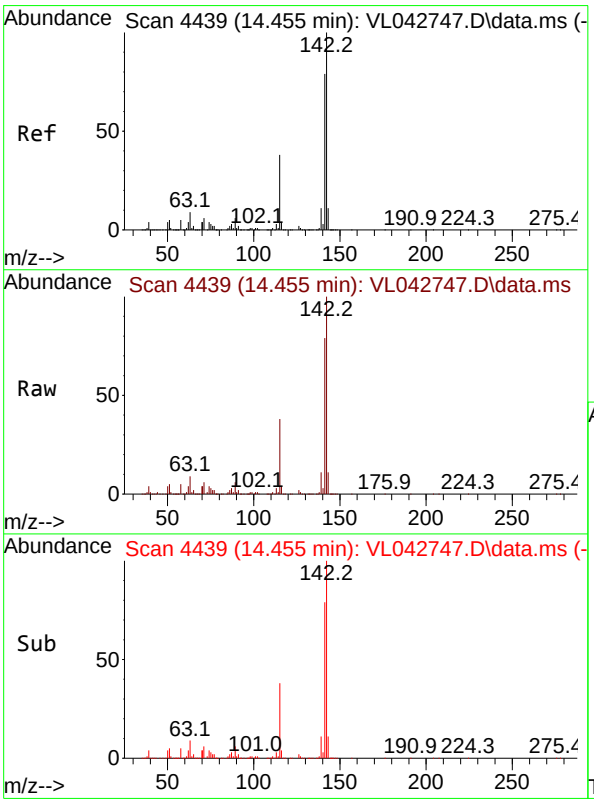
#79
Naphthalene
Concen: 9.665 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:128 Resp: 598108

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.8	8.6	13.0

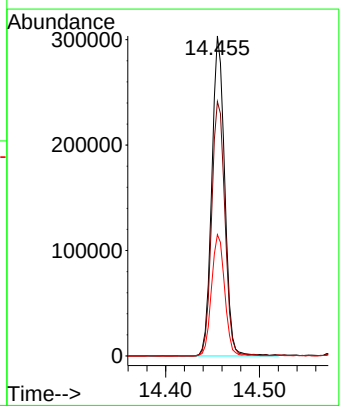


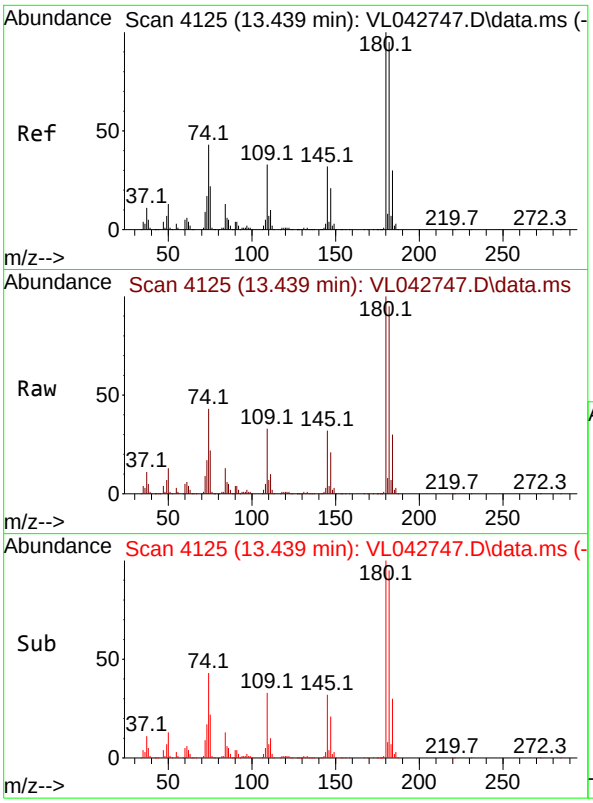


#80
Naphthalene,2-methyl-
Concen: 9.404 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:142 Resp: 289412

Ion	Ratio	Lower	Upper
142	100		
141	82.1	65.8	98.8
115	38.9	31.2	46.8



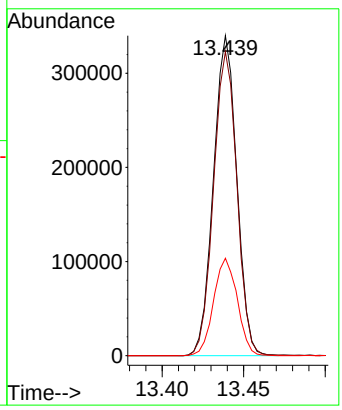


#81
1,2,4-Trichlorobenzene
Concen: 9.710 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:180 Resp: 337776

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.2	114.2
184	31.0	24.8	37.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042748.D
Acq On : 23 Jul 2025 09:34
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Jul 24 04:56:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.780	49	158575	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	457804	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	410740	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	330476	10.160	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.495	85	43675	2.083	ppbv		98
3) Chlorodifluoromethane	1.473	51	56214	2.058	ppbv		99
4) Chloromethane	1.531	50	16834	1.985	ppbv		100
5) Vinyl Chloride	1.576	62	15384	1.836	ppbv		92
6) Bromomethane	1.664	94	5754	1.776	ppbv		83
7) Chloroethane	1.703	64	6001	1.853	ppbv		93
8) Dichlorotetrafluoroethane	1.554	85	35629	2.066	ppbv		100
9) Propene	1.483	41	21592	2.175	ppbv		97
10) Heptane	4.965	43	28682	1.074	ppbv	#	32
11) Trichlorofluoromethane	1.874	101	44770	2.072	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.136	101	33910	2.065	ppbv		99
13) Ethanol	1.719	45	2321	2.155	ppbv		78
14) Bromoethene	1.780	108	12078	2.077	ppbv	#	96
15) Acetone	1.832	43	48226	2.202	ppbv		100
16) 1,3-Butadiene	1.606	39	18504	1.981	ppbv		96
17) tert-Butyl alcohol	2.036	59	40135	2.032	ppbv	#	93
18) 1,1-Dichloroethene	2.030	96	14381	1.938	ppbv		93
19) Isopropyl Alcohol	1.884	45	23028	1.979	ppbv	#	75
20) Methylene Chloride	2.059	84	13296	1.927	ppbv		97
21) Allyl Chloride	2.091	41	27789	2.059	ppbv		97
22) trans-1,2-Dichloroethene	2.030	96	14381	1.804	ppbv		91
23) Vinyl Acetate	2.457	43	53544	2.017	ppbv	#	98
24) 1,1-Dichloroethane	2.405	63	33969	2.073	ppbv		99
25) Ethyl Acetate	2.832	43	101853	2.101	ppbv		99
26) Hexane	2.822	57	45446	2.137	ppbv		99
27) Carbon Disulfide	2.146	76	36945	2.030	ppbv	#	36
28) Methyl tert-Butyl Ether	2.437	73	20603	2.051	ppbv		96
29) Chloroform	2.842	83	67755	2.062	ppbv		97
30) Cyclohexane	3.845	84	19383	1.075	ppbv	#	1
31) cis-1,2-Dichloroethene	2.716	61	44860	2.053	ppbv		96
32) 1,1,1-Trichloroethane	3.363	97	67608	1.976	ppbv		98
34) 2-Butanone	2.551	43	69674	2.149	ppbv		99
35) Carbon Tetrachloride	3.755	117	67338	1.979	ppbv		97
36) Benzene	3.648	78	91141	2.101	ppbv		94
37) 1,2-Dichloroethane	3.211	62	53482	2.046	ppbv		98
38) Trichloroethene	4.538	130	40713	1.946	ppbv		90
39) 1,2-Dichloropropane	4.305	63	33225	2.075	ppbv		94
40) 1,4-Dioxane	4.583	88	14747	1.953	ppbv	#	69
41) Tetrahydrofuran	3.052	42	33618	2.064	ppbv		94
42) Bromodichloromethane	4.480	83	69093	2.028	ppbv		94
43) Methyl Methacrylate	4.871	69	30336	1.967	ppbv		95
44) 2,2,4-Trimethylpentane	4.632	57	149588	2.115	ppbv		99
45) t-1,3-Dichloropropene	6.399	75	16554	0.957	ppbv		94

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042748.D
Acq On : 23 Jul 2025 09:34
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Jul 24 04:56:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

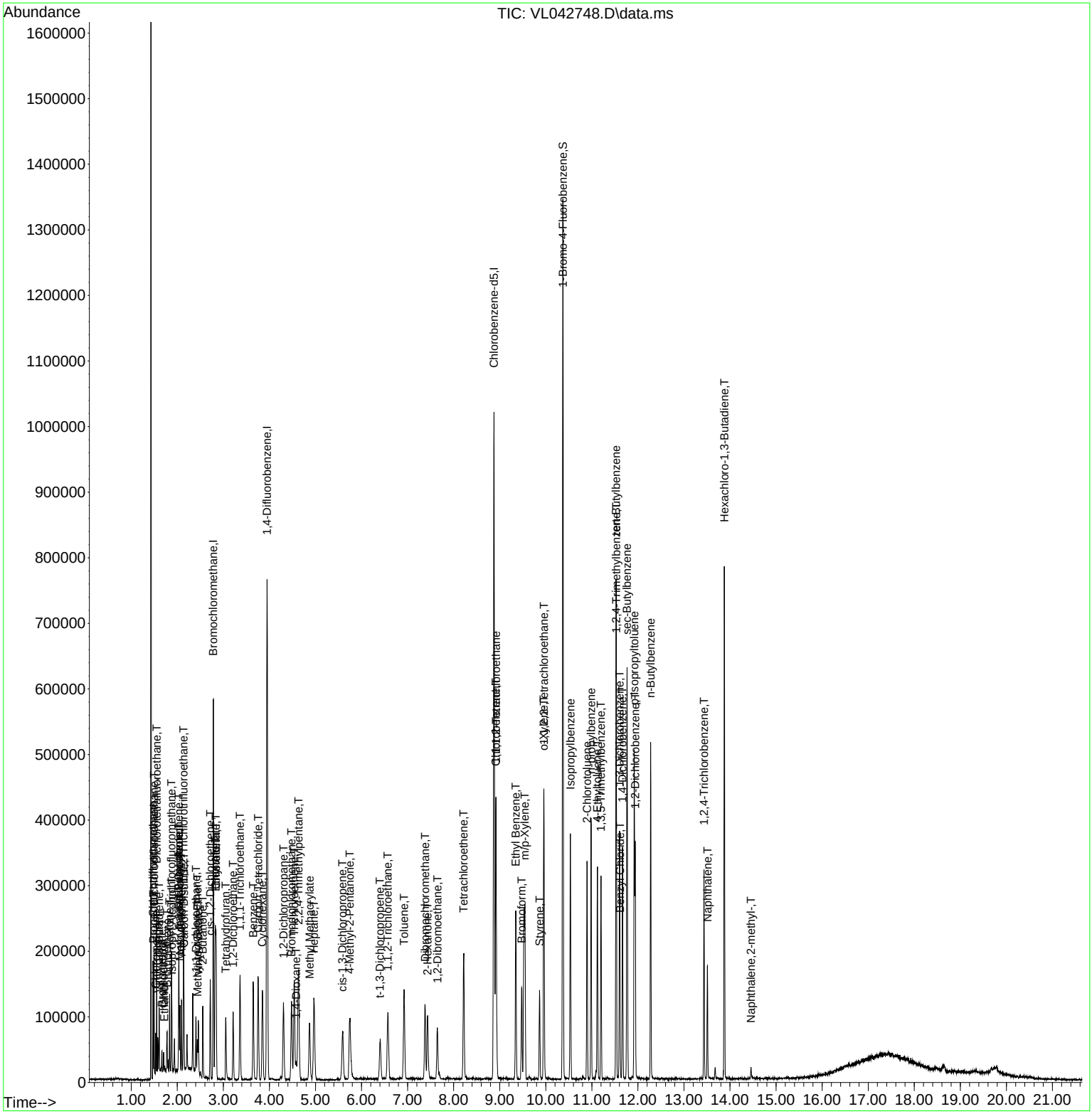
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.583	75	23760	1.084	ppbv		95
47) 1,1,2-Trichloroethane	6.567	97	16867	0.988	ppbv		94
48) Dibromochloromethane	7.380	129	54906	2.026	ppbv		96
49) Bromoform	9.477	173	47340	2.003	ppbv		96
50) 4-Methyl-2-Pentanone	5.742	43	39913	0.966	ppbv	#	28
51) 2-Hexanone	7.431	43	68093	2.157	ppbv	#	99
52) Tetrachloroethene	8.215	164	34568	1.917	ppbv		94
53) Toluene	6.923	91	98346	2.111	ppbv		100
54) 1,2-Dibromoethane	7.645	107	49346	2.042	ppbv		91
56) 1,1,1,2-Tetrachloroethane	8.920	131	44409	2.079	ppbv		92
57) Chlorobenzene	8.914	112	83503	2.101	ppbv	#	92
58) Ethyl Benzene	9.348	91	143251	2.208	ppbv		97
59) m/p-Xylene	9.545	91	91147	1.758	ppbv	#	30
60) o-Xylene	9.956	91	113462	2.190	ppbv		99
61) Styrene	9.865	104	45351	2.081	ppbv		100
62) Isopropylbenzene	10.535	105	167108	2.187	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.959	83	65928	1.954	ppbv		100
64) n-propylbenzene	10.982	120	43789	2.198	ppbv		98
65) tert-Butylbenzene	11.526	119	151081	2.226	ppbv		98
66) Benzyl Chloride	11.610	91	10485	1.882	ppbv		98
67) sec-Butylbenzene	11.762	105	212925	2.206	ppbv		99
69) p-Isopropyltoluene	11.921	119	175553	2.230	ppbv		99
70) n-Butylbenzene	12.277	91	171675	2.258	ppbv		99
71) 2-Chlorotoluene	10.898	91	125039	2.134	ppbv		98
72) 4-Ethyltoluene	11.121	105	134097	2.168	ppbv		98
73) 1,3,5-Trimethylbenzene	11.199	105	108055	2.122	ppbv		97
74) 1,2,4-Trimethylbenzene	11.532	105	122295	2.201	ppbv		95
75) 1,3-Dichlorobenzene	11.600	146	85254	2.188	ppbv		99
76) 1,4-Dichlorobenzene	11.665	146	83440	2.189	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	82311	2.150	ppbv		99
78) Hexachloro-1,3-Butadiene	13.876	225	78291	2.259	ppbv		99
79) Naphthalene	13.510	128	79191	1.690	ppbv		98
80) Naphthalene,2-methyl-	14.455	142	5851	1.298	ppbv		90
81) 1,2,4-Trichlorobenzene	13.435	180	51515	1.888	ppbv		99

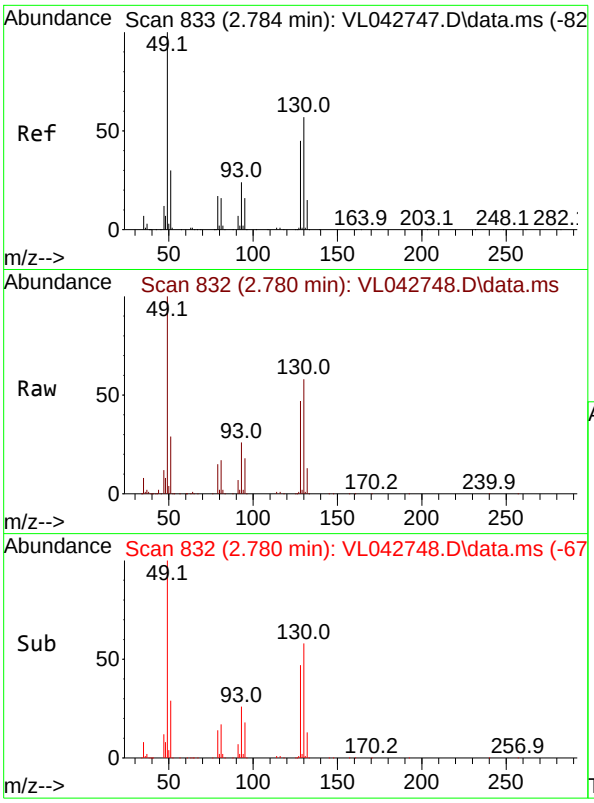
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042748.D
Acq On : 23 Jul 2025 09:34
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Jul 24 04:56:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration



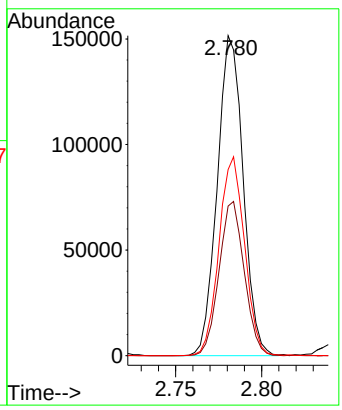


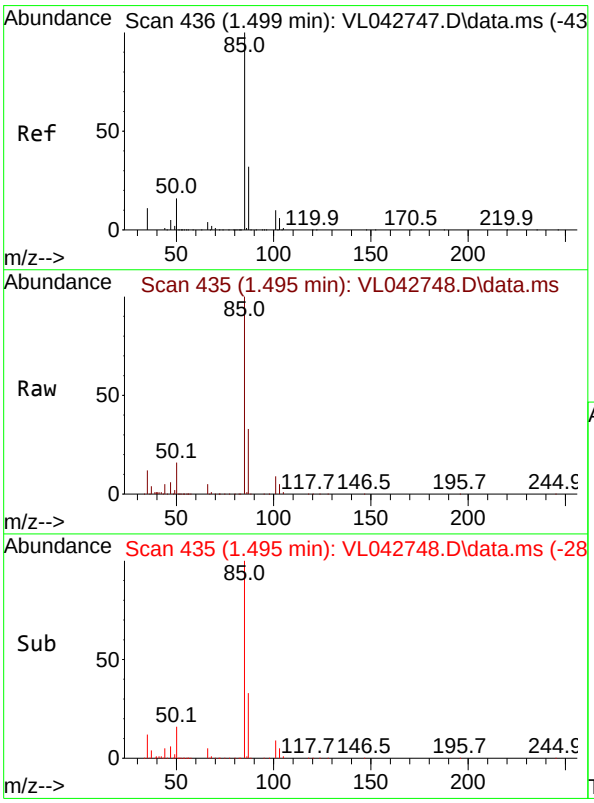
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 49 Resp: 158575

Ion	Ratio	Lower	Upper
49	100		
128	47.0	23.6	71.0
130	61.6	30.3	90.8

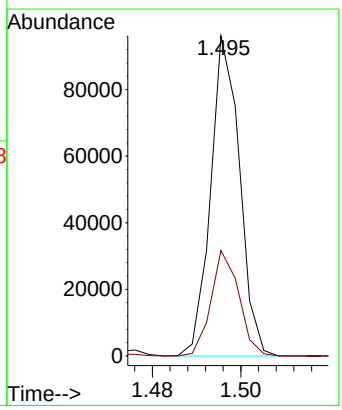


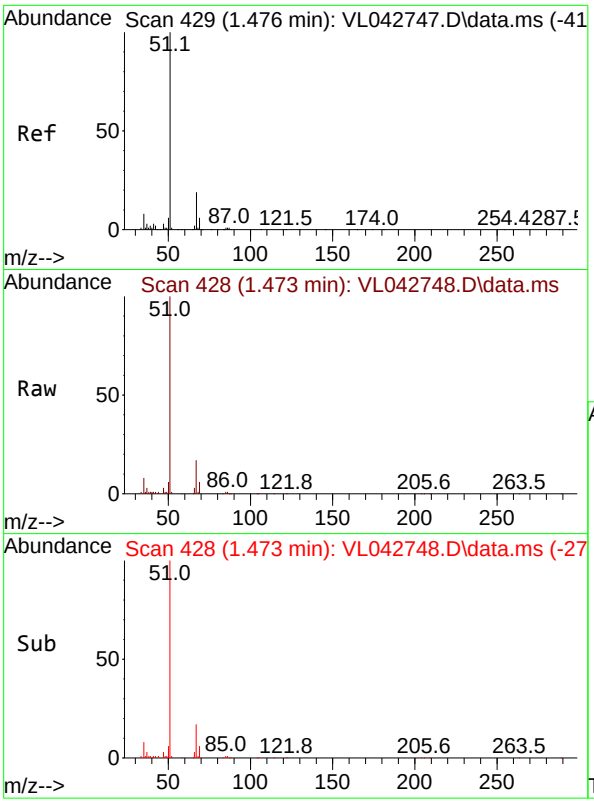


#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 85 Resp: 43675

Ion	Ratio	Lower	Upper
85	100		
87	33.0	25.4	38.2



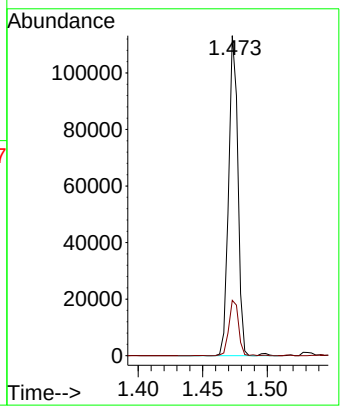


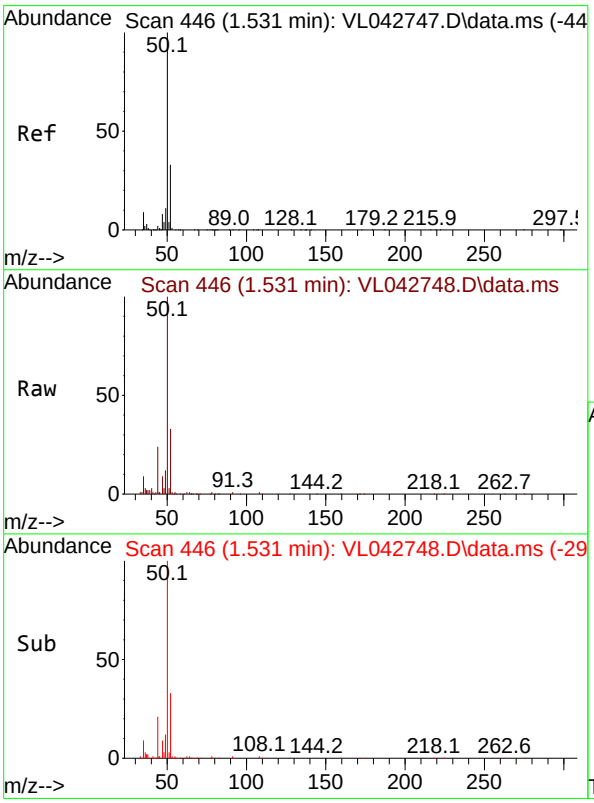
#3
Chlorodifluoromethane
Concen: 2.058 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 56214

Ion	Ratio	Lower	Upper
51	100		
67	18.3	15.0	22.6

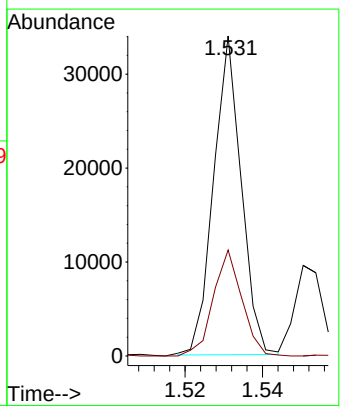


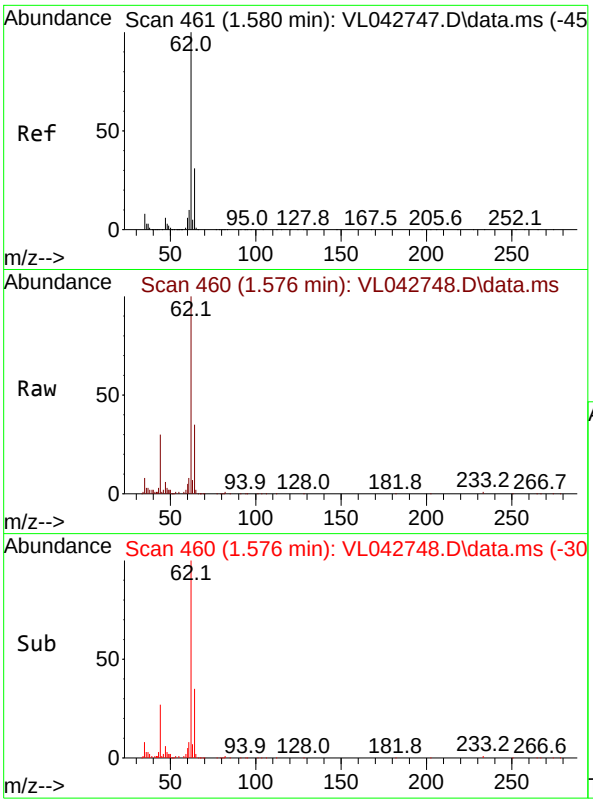


#4
Chloromethane
Concen: 1.985 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 50 Resp: 16834

Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.6	40.0



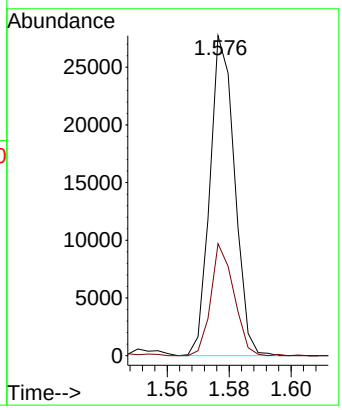


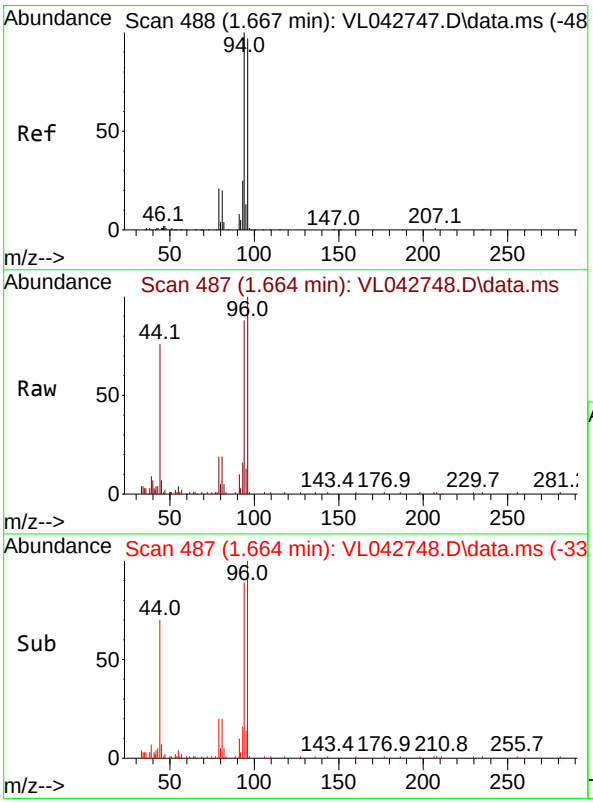
#5
Vinyl Chloride
Concen: 1.836 ppbv
RT: 1.576 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 15384

Ion	Ratio	Lower	Upper
62	100		
64	35.0	24.5	36.7

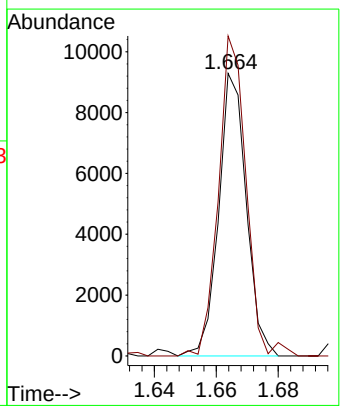


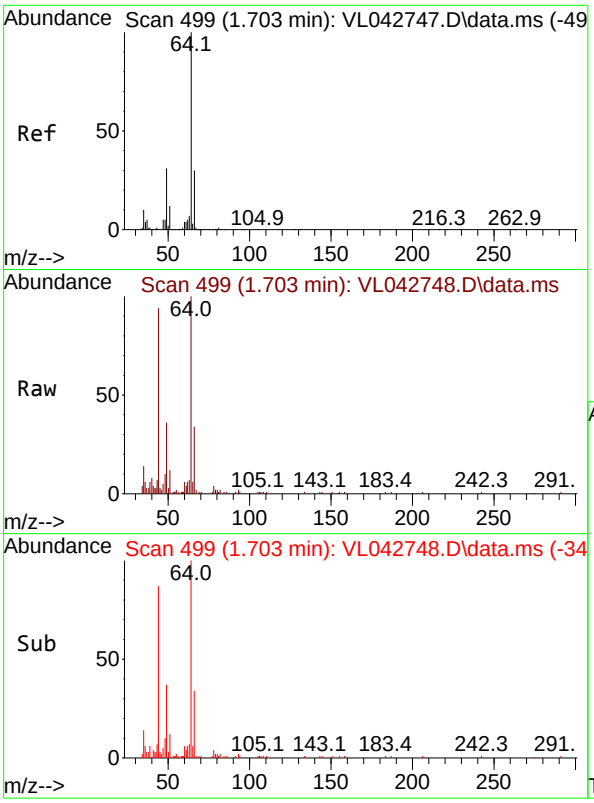


#6
Bromomethane
Concen: 1.776 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 94 Resp: 5754

Ion	Ratio	Lower	Upper
94	100		
96	113.3	77.6	116.4



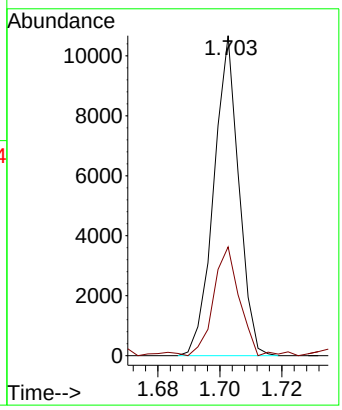


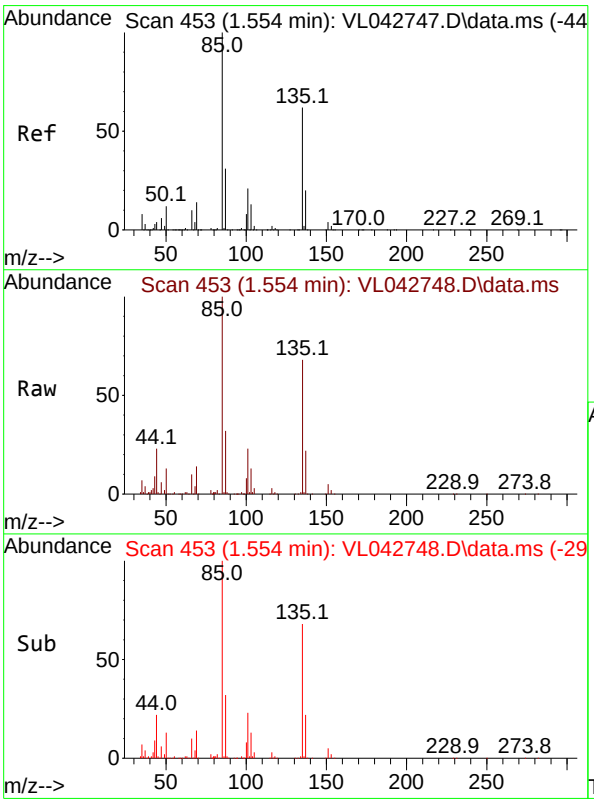
#7
Chloroethane
Concen: 1.853 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 64 Resp: 6001

Ion	Ratio	Lower	Upper
64	100		
66	34.0	24.1	36.1

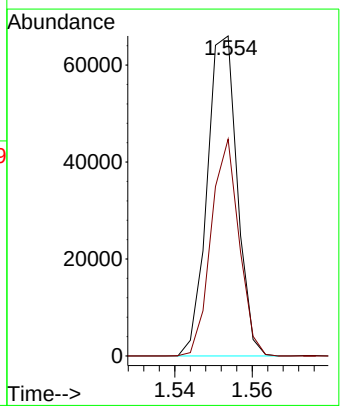


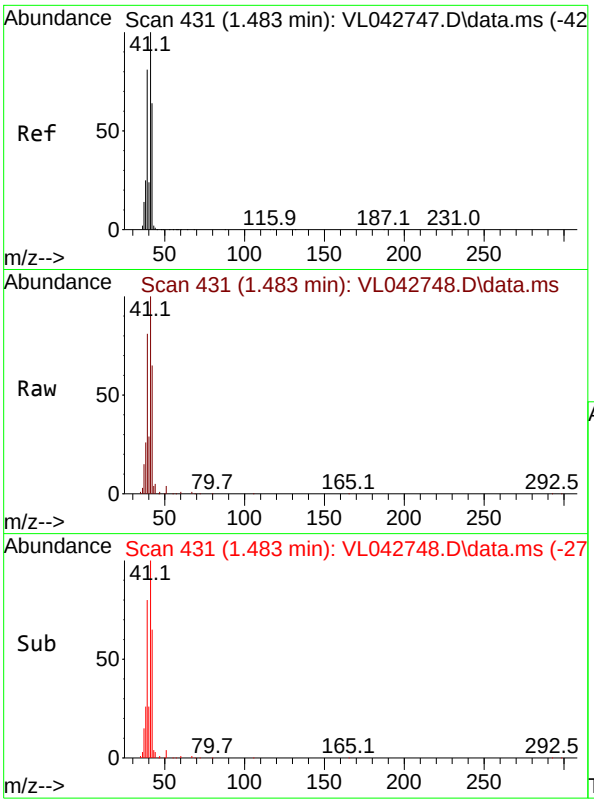


#8
Dichlorotetrafluoroethane
Concen: 2.066 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 85 Resp: 35629

Ion	Ratio	Lower	Upper
85	100		
135	63.0	50.6	76.0



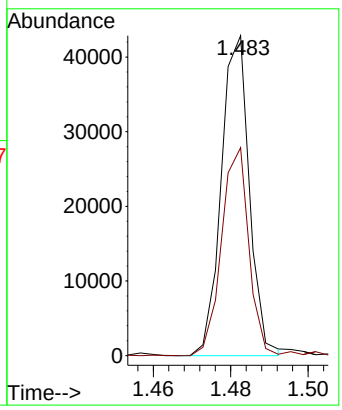


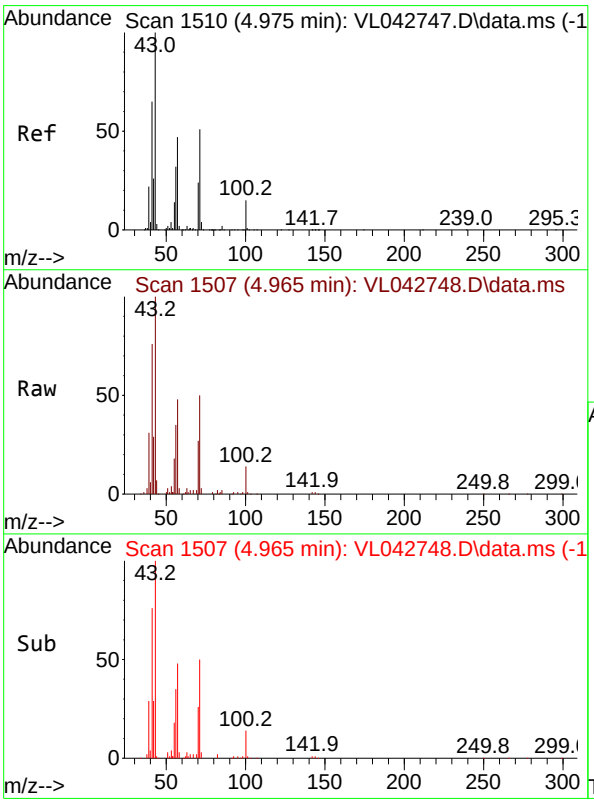
#9
Propene
Concen: 2.175 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 21592

Ion	Ratio	Lower	Upper
41	100		
42	64.5	53.2	79.8

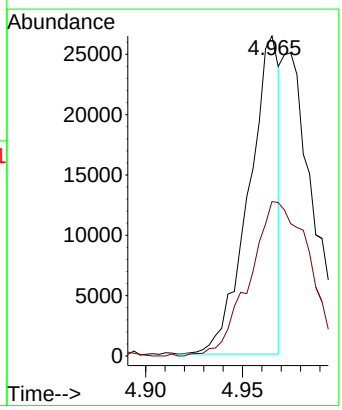


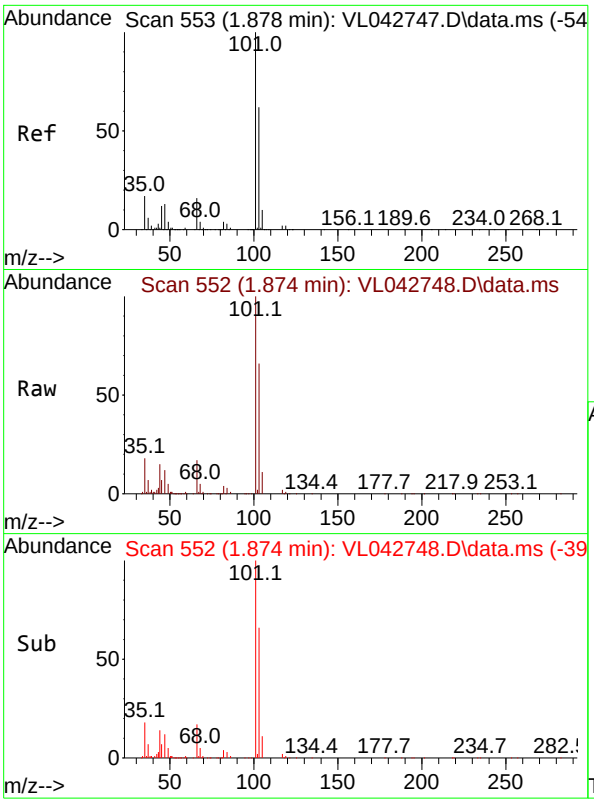


#10
Heptane
Concen: 1.074 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.010 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 43 Resp: 28682

Ion	Ratio	Lower	Upper
43	100		
57	97.0	39.9	59.9#



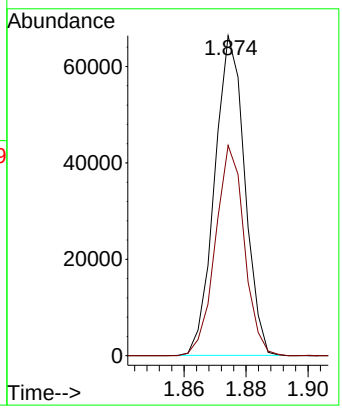


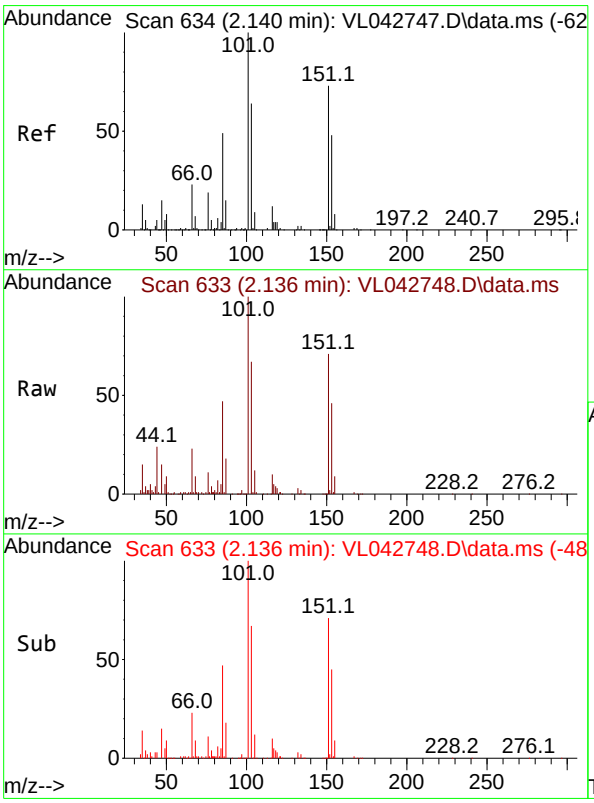
#11
Trichlorofluoromethane
Concen: 2.072 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:101 Resp: 44770

Ion	Ratio	Lower	Upper
101	100		
103	65.8	49.6	74.4

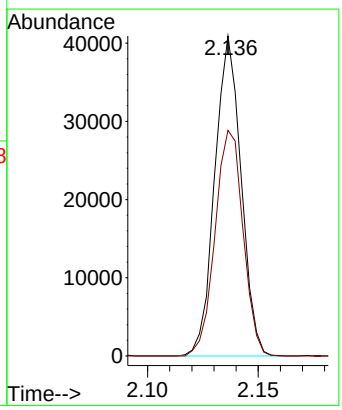


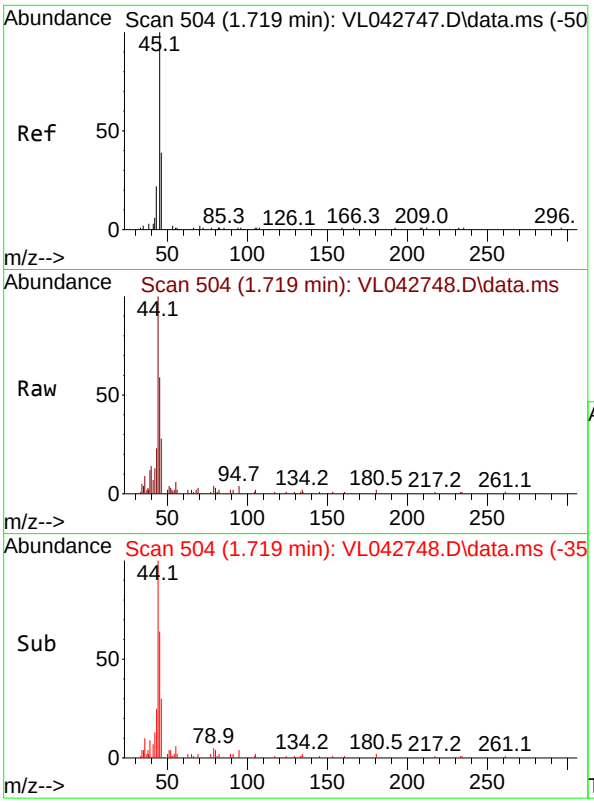


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.065 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:101 Resp: 33910

Ion	Ratio	Lower	Upper
101	100		
151	74.9	60.5	90.7



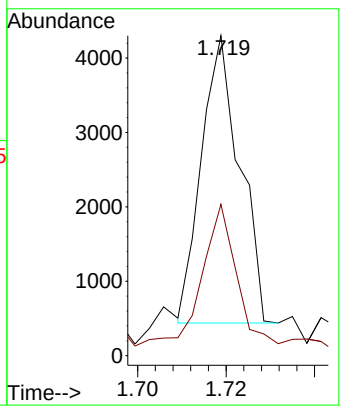


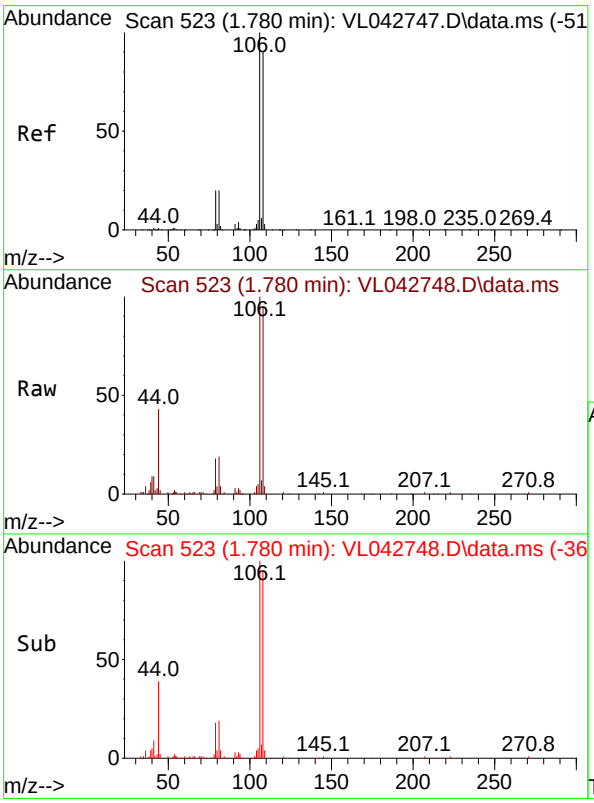
#13
Ethanol
Concen: 2.155 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 2321

Ion	Ratio	Lower	Upper
45	100		
46	58.7	17.8	71.4

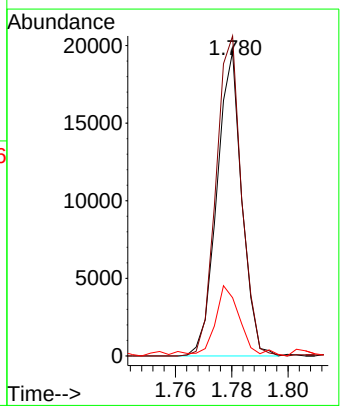


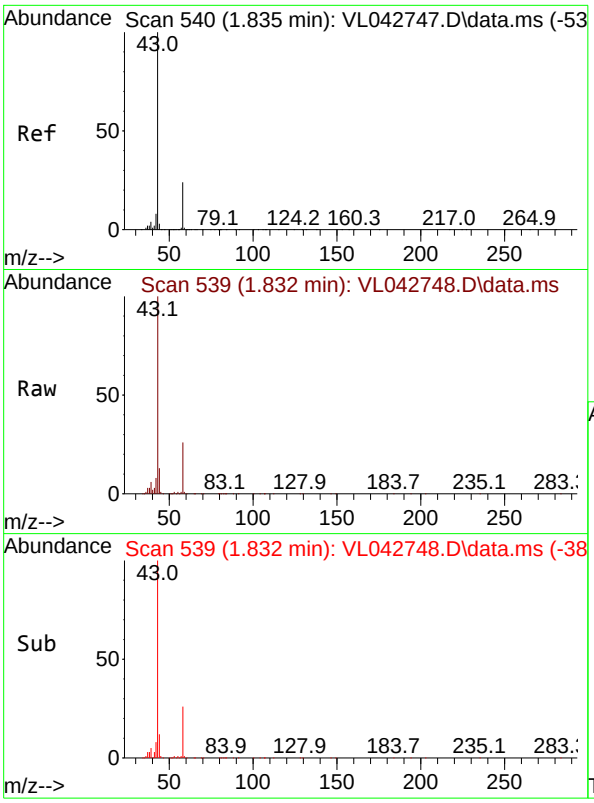


#14
Bromoethene
Concen: 2.077 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:108 Resp: 12078

Ion	Ratio	Lower	Upper
108	100		
106	107.6	84.7	127.1
79	29.2	17.4	26.2#



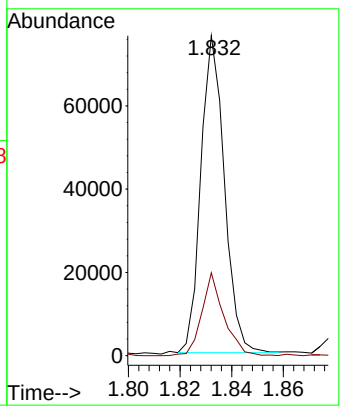


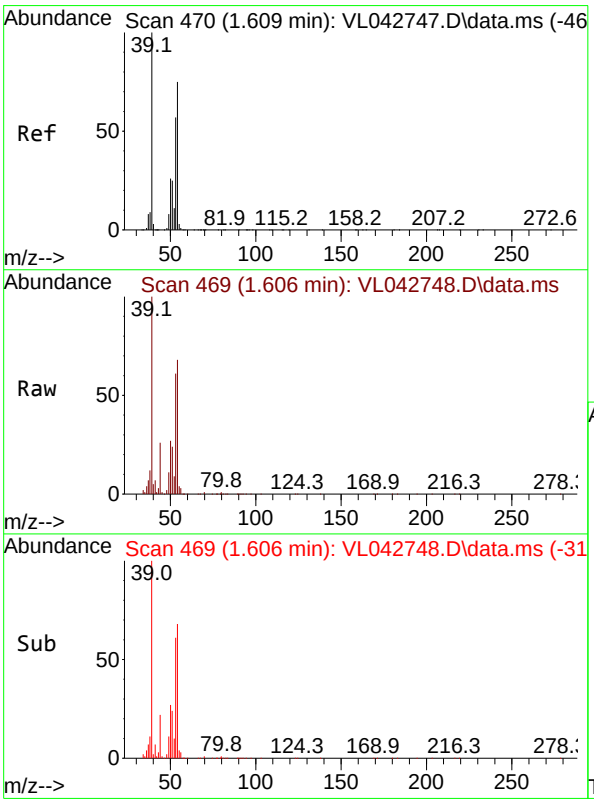
#15
Acetone
Concen: 2.202 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 48226

Ion	Ratio	Lower	Upper
43	100		
58	25.0	19.8	29.8

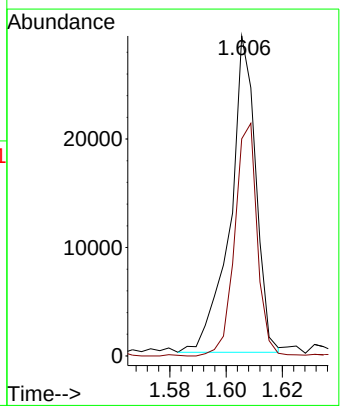


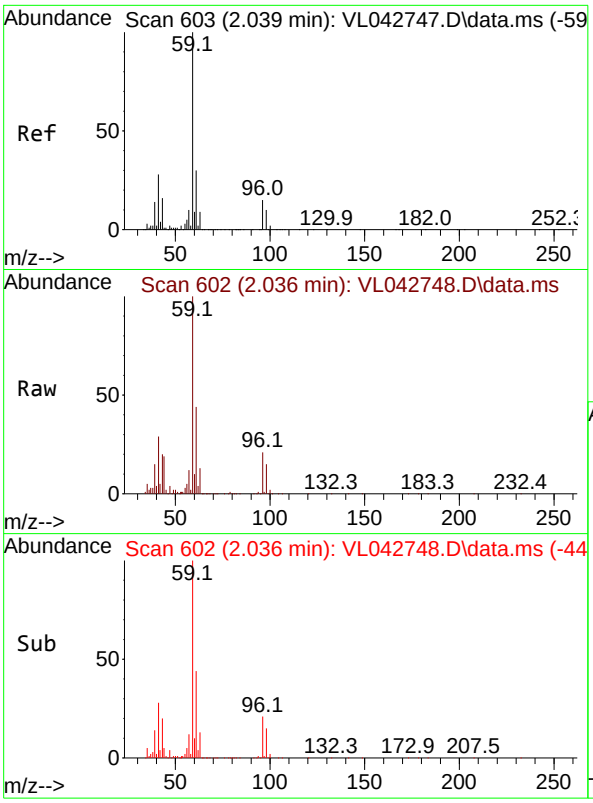


#16
1,3-Butadiene
Concen: 1.981 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 39 Resp: 18504

Ion	Ratio	Lower	Upper
39	100		
54	65.0	54.5	81.7



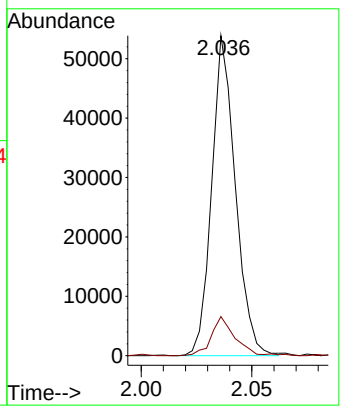


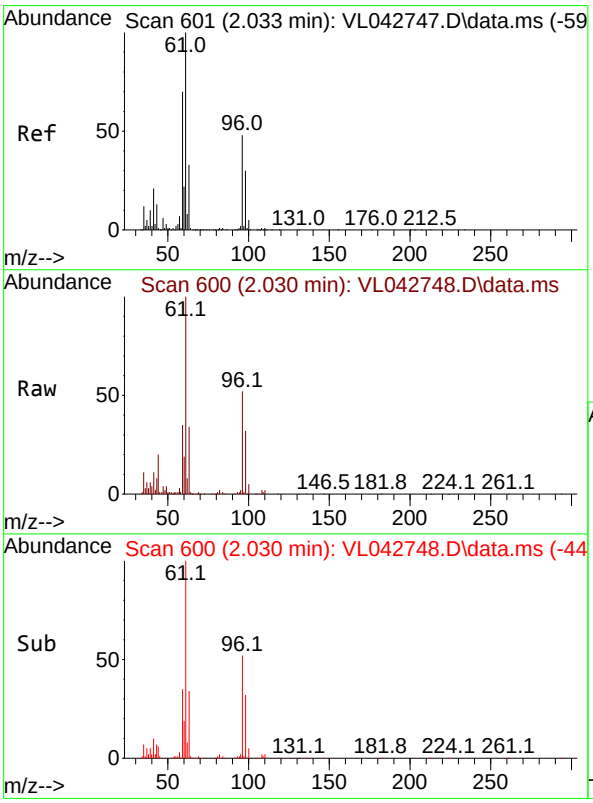
#17
tert-Butyl alcohol
Concen: 2.032 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 59 Resp: 40135

Ion	Ratio	Lower	Upper
59	100		
57	12.9	8.3	12.5#

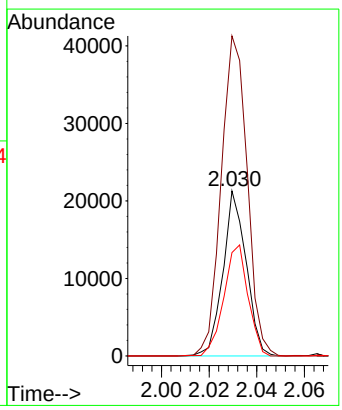


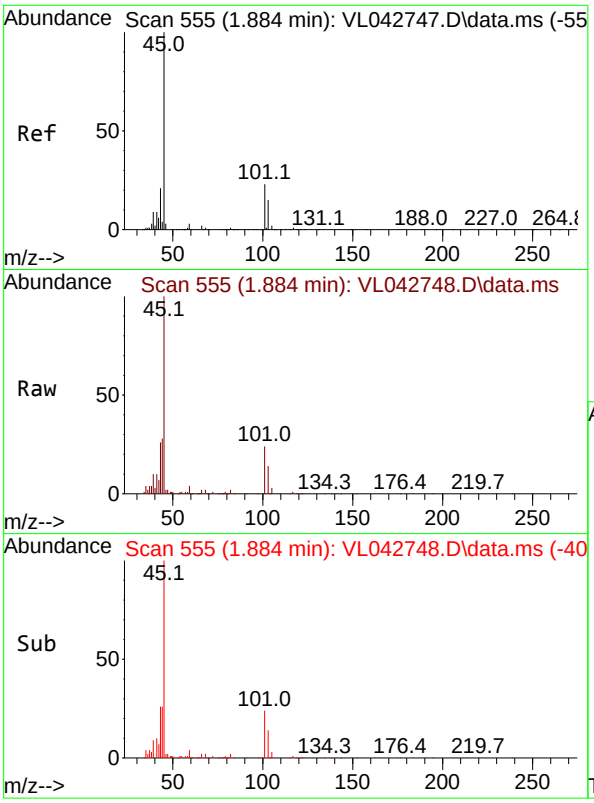


#18
1,1-Dichloroethene
Concen: 1.938 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 96 Resp: 14381

Ion	Ratio	Lower	Upper
96	100		
61	193.9	165.8	248.6
98	62.7	49.9	74.9



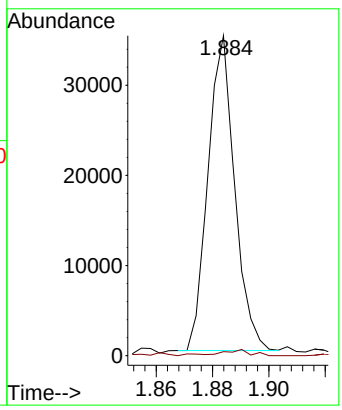


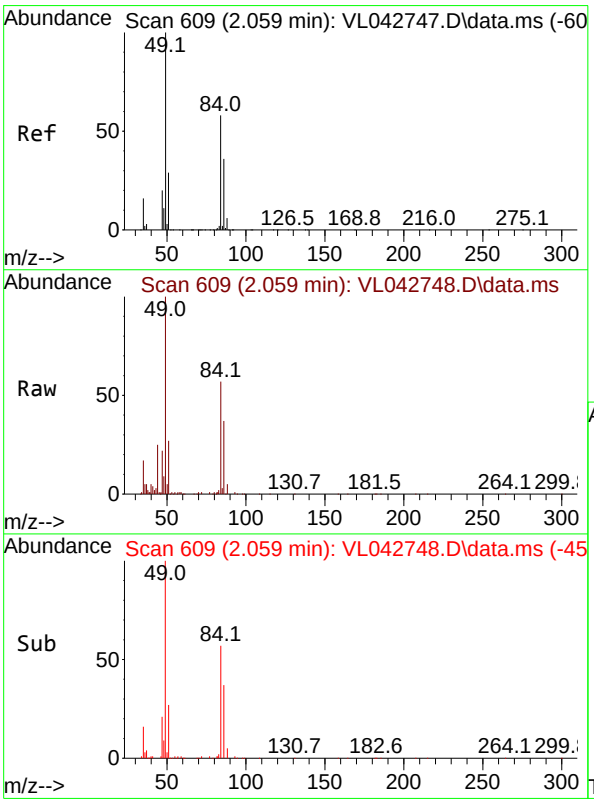
#19
Isopropyl Alcohol
Concen: 1.979 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 23028

Ion	Ratio	Lower	Upper
45	100		
58	52.5	30.0	45.0#

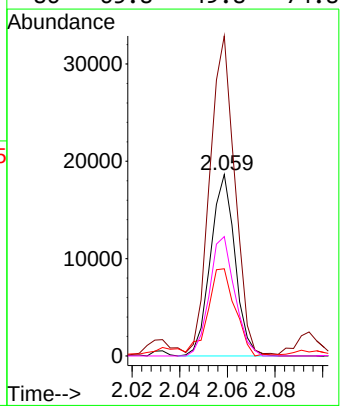


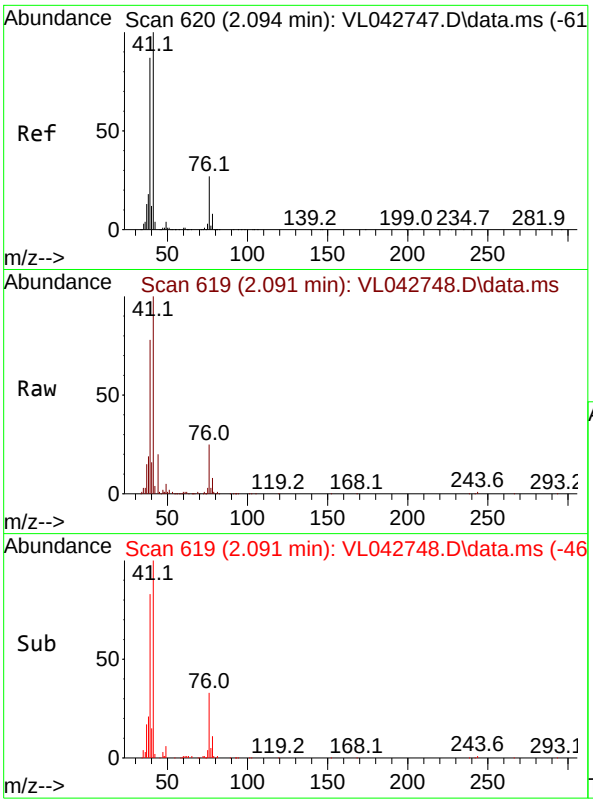


#20
Methylene Chloride
Concen: 1.927 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 84 Resp: 13296

Ion	Ratio	Lower	Upper
84	100		
49	175.4	138.6	208.0
51	47.4	40.6	61.0
86	65.8	49.8	74.8



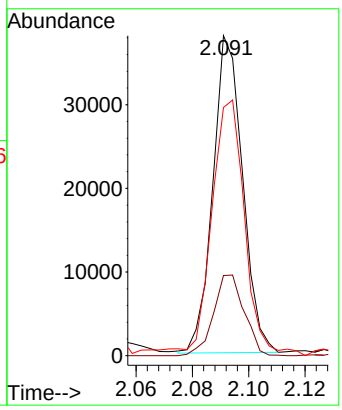


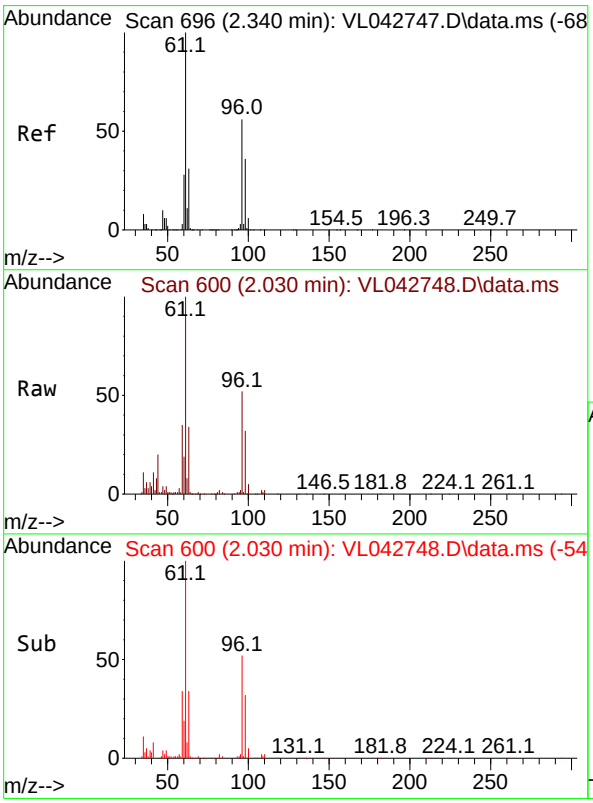
#21
Allyl Chloride
Concen: 2.059 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 27789

Ion	Ratio	Lower	Upper
41	100		
76	26.3	21.1	31.7
39	89.5	68.3	102.5

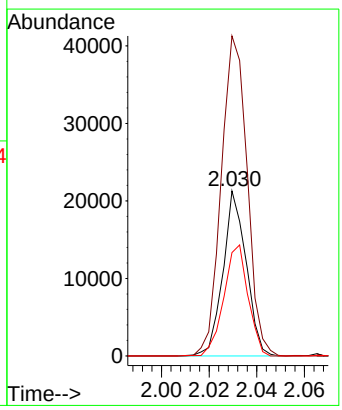


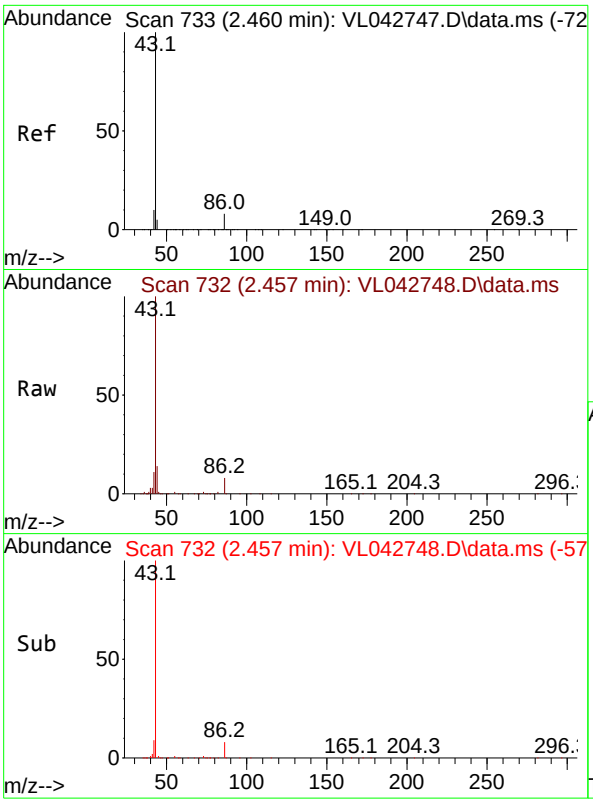


#22
trans-1,2-Dichloroethene
Concen: 1.804 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.311 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 96 Resp: 14381

Ion	Ratio	Lower	Upper
96	100		
61	193.9	142.3	213.5
98	62.7	50.6	76.0



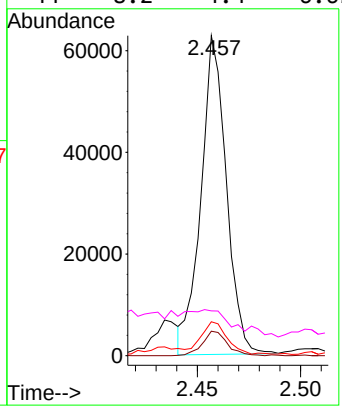


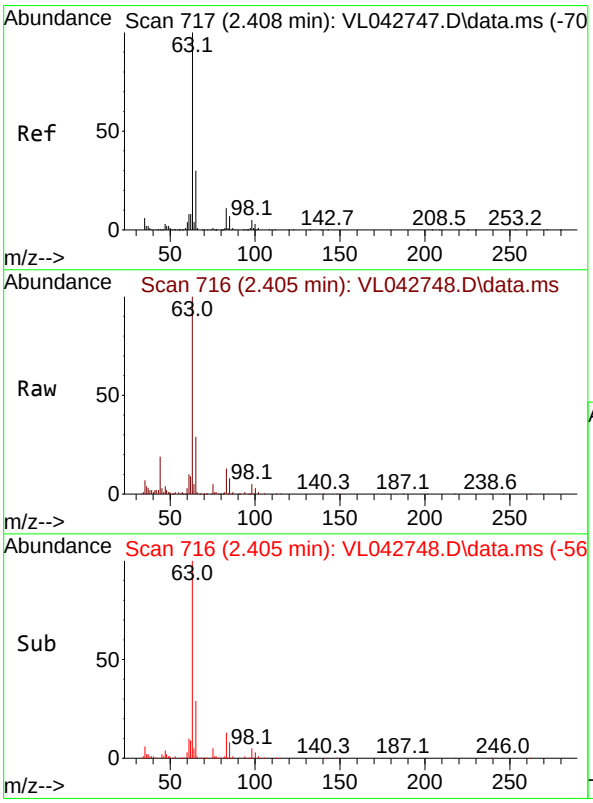
#23
Vinyl Acetate
Concen: 2.017 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 53544

Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.1	9.1
42	10.1	7.8	11.8
44	8.2	4.4	6.6#

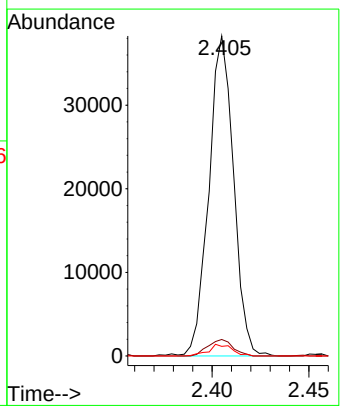


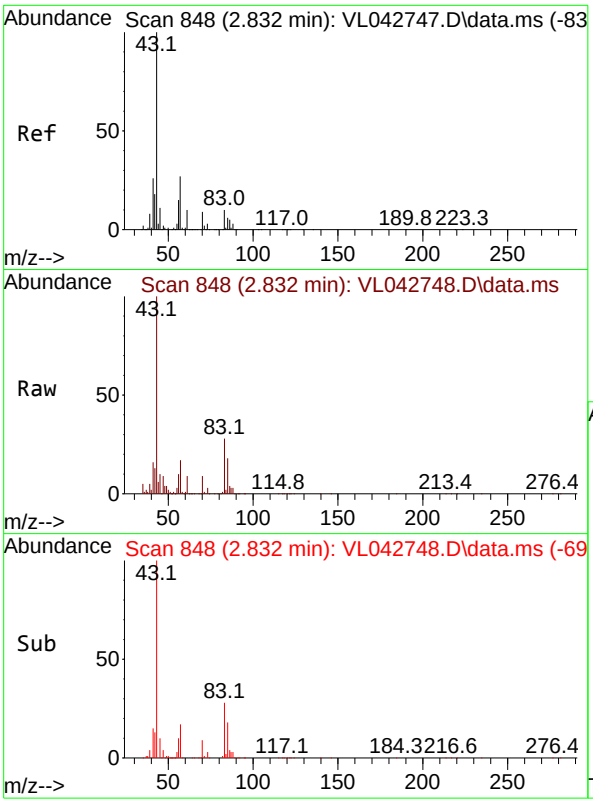


#24
1,1-Dichloroethane
Concen: 2.073 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 63 Resp: 33969

Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.5	7.4
100	3.0	1.6	4.8



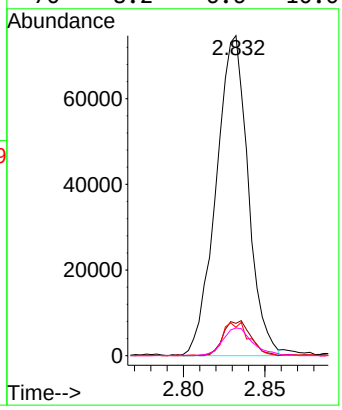


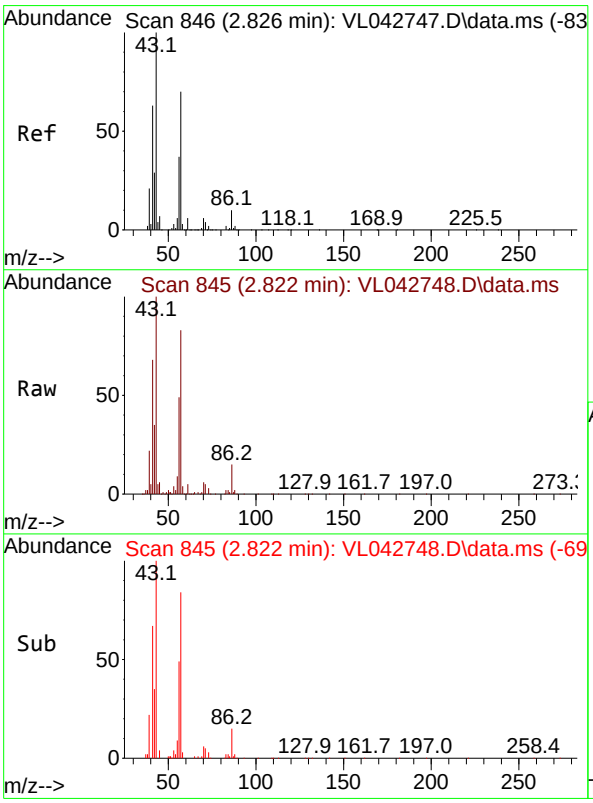
#25
Ethyl Acetate
Concen: 2.101 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 101853

Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	8.9	6.7	10.1
70	8.2	6.6	10.0

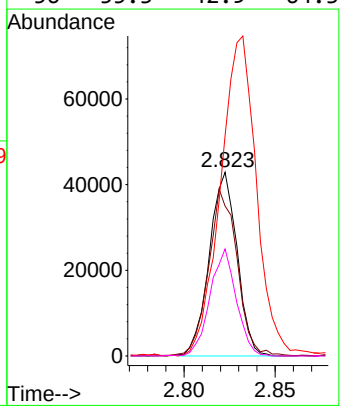


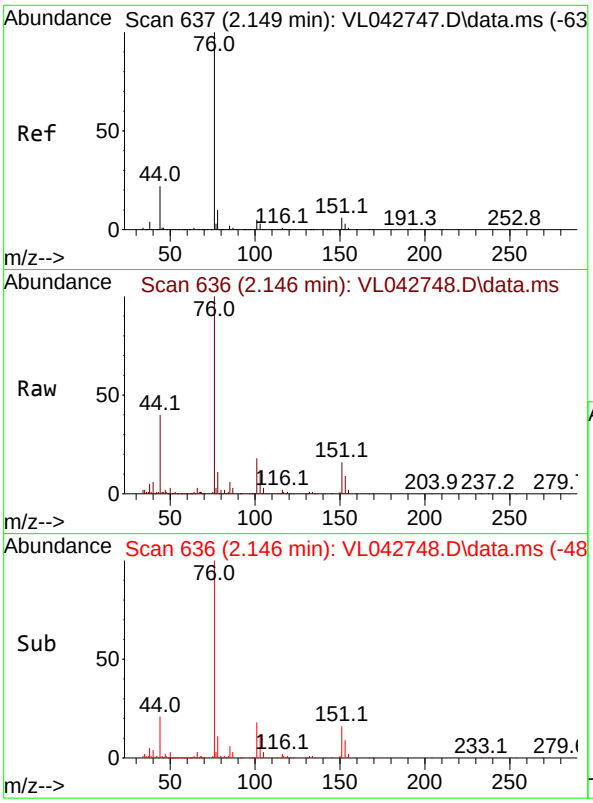


#26
Hexane
Concen: 2.137 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 57 Resp: 45446

Ion	Ratio	Lower	Upper
57	100		
41	94.1	75.4	113.2
43	230.2	185.0	277.6
56	55.3	42.9	64.3



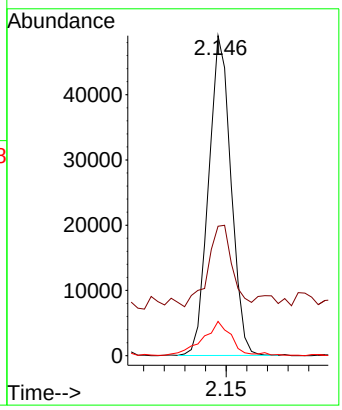


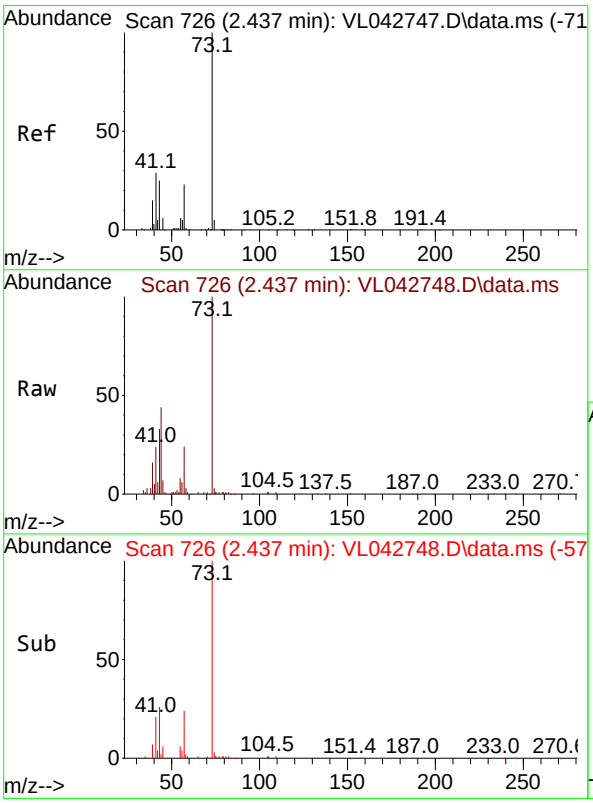
#27
Carbon Disulfide
Concen: 2.030 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 76 Resp: 36945

Ion	Ratio	Lower	Upper
76	100		
44	71.1	19.3	28.9#
78	13.6	9.9	14.9

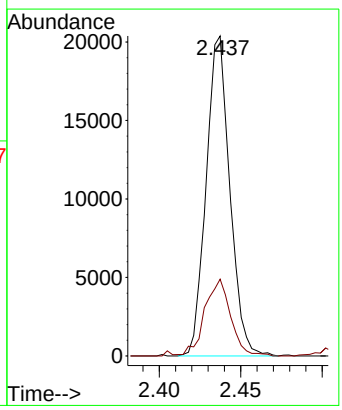


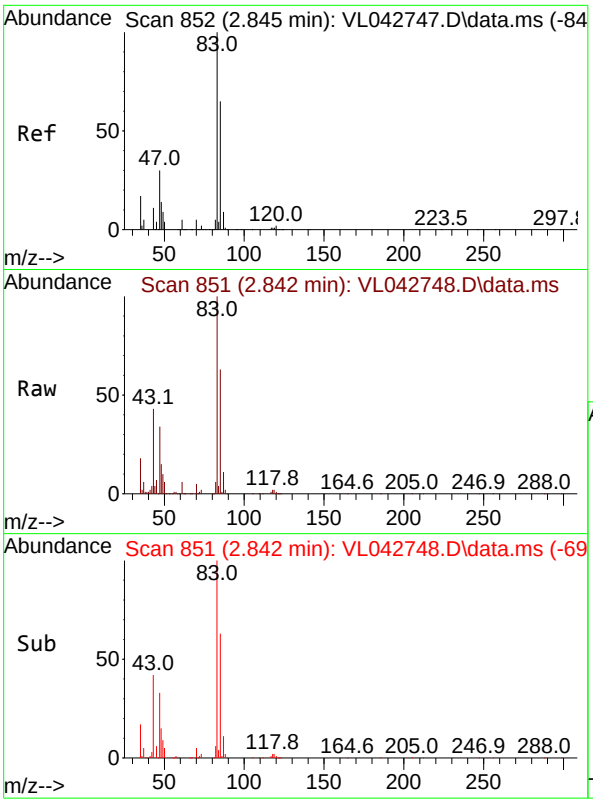


#28
Methyl tert-Butyl Ether
Concen: 2.051 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 73 Resp: 20603

Ion	Ratio	Lower	Upper
73	100		
57	26.7	19.8	29.8



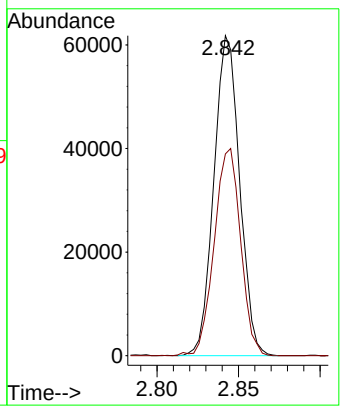


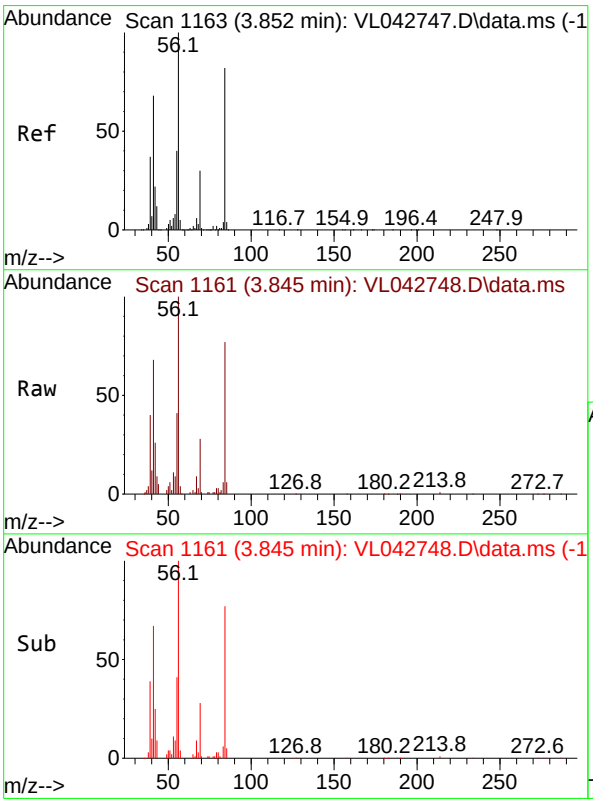
#29
Chloroform
Concen: 2.062 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 67755

Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.2	78.2

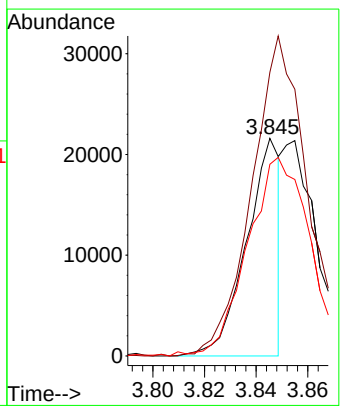


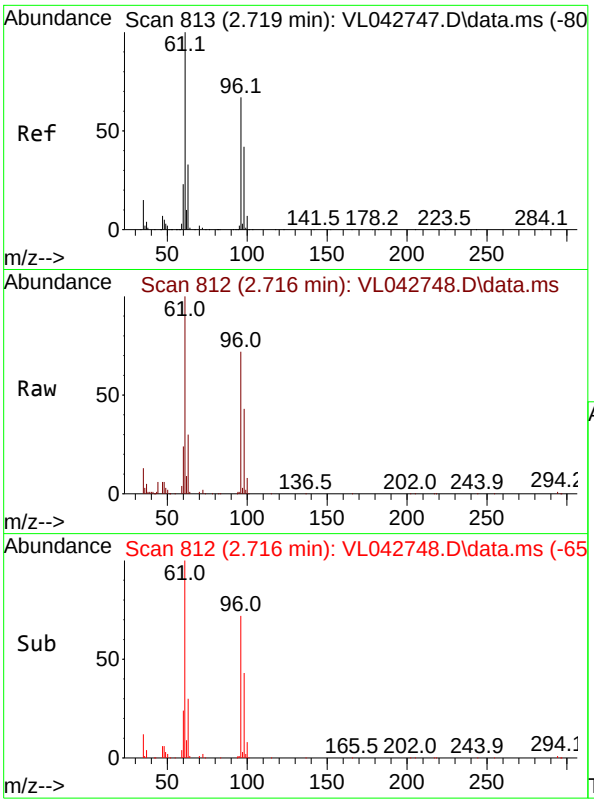


#30
Cyclohexane
Concen: 1.075 ppbv
RT: 3.845 min Scan# 1161
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 84 Resp: 19383

Ion	Ratio	Lower	Upper
84	100		
56	245.5	97.5	146.3#
41	171.7	67.2	100.8#



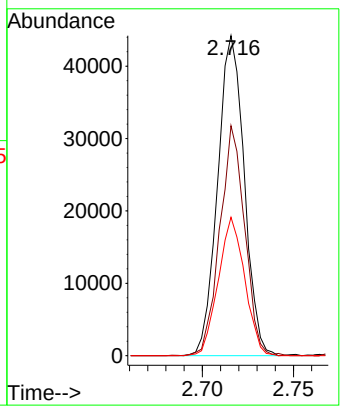


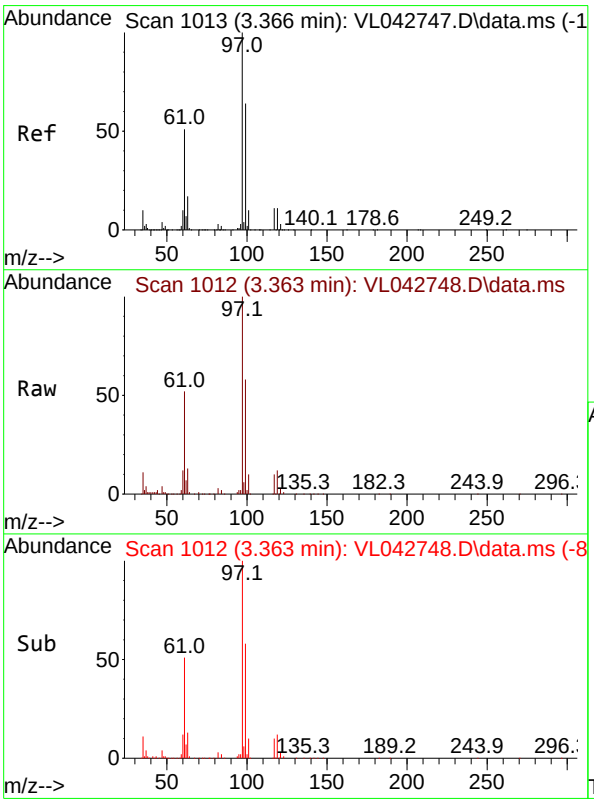
#31
cis-1,2-Dichloroethene
Concen: 2.053 ppbv
RT: 2.716 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 61 Resp: 44860

Ion	Ratio	Lower	Upper
61	100		
96	71.8	53.5	80.3
98	43.3	33.6	50.4

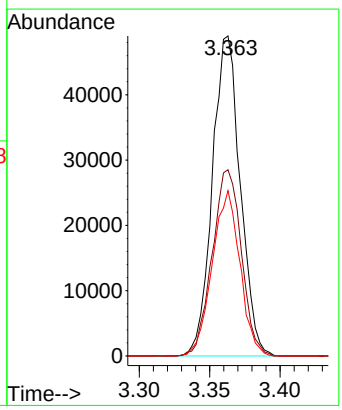


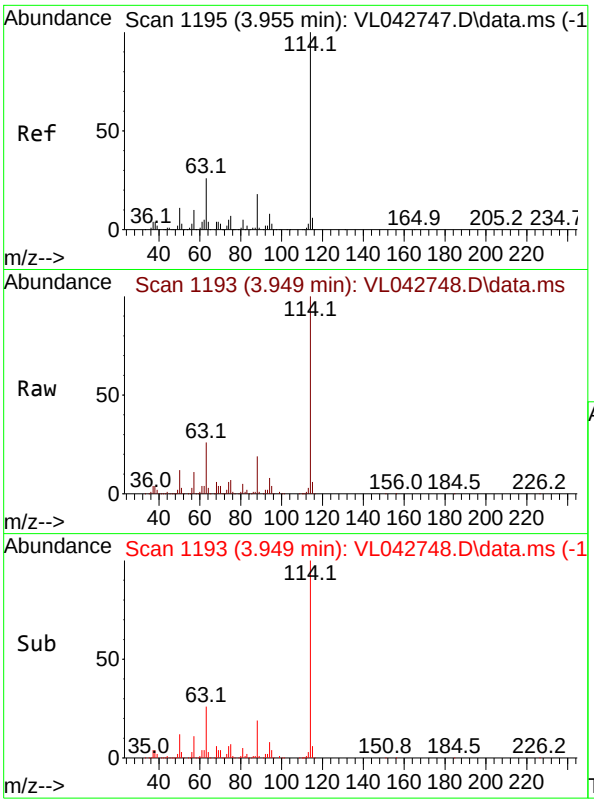


#32
1,1,1-Trichloroethane
Concen: 1.976 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 97 Resp: 67608

Ion	Ratio	Lower	Upper
97	100		
99	60.8	51.0	76.6
61	51.3	40.9	61.3



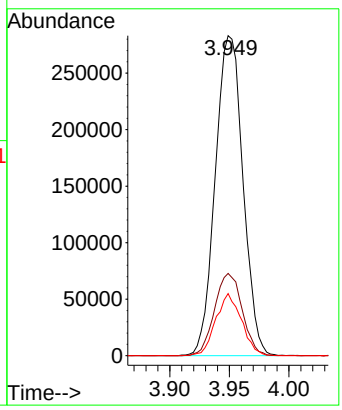


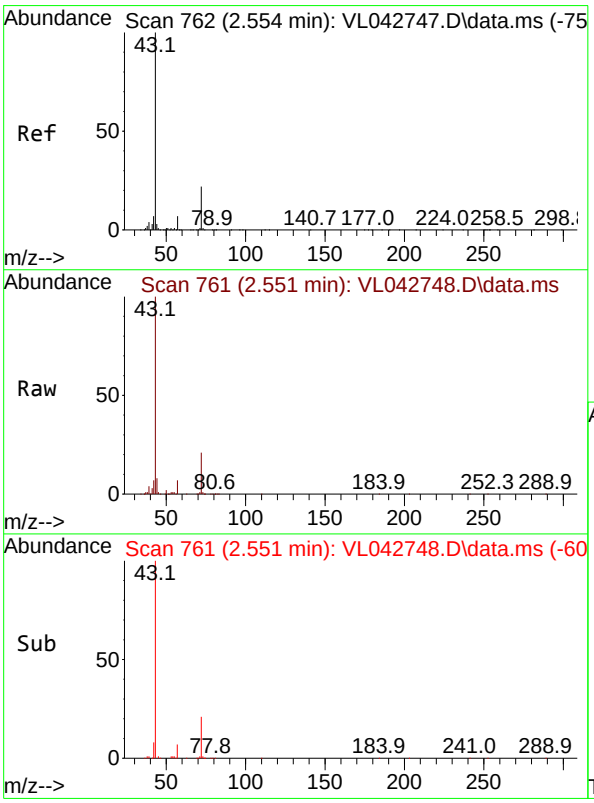
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:114 Resp: 457804

Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.5	30.7
88	18.0	14.0	21.0

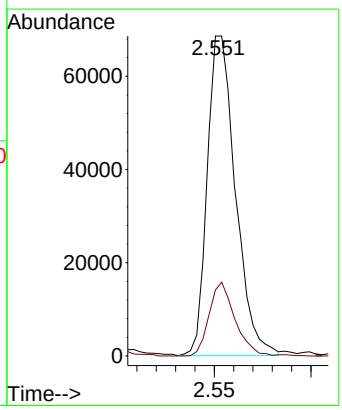


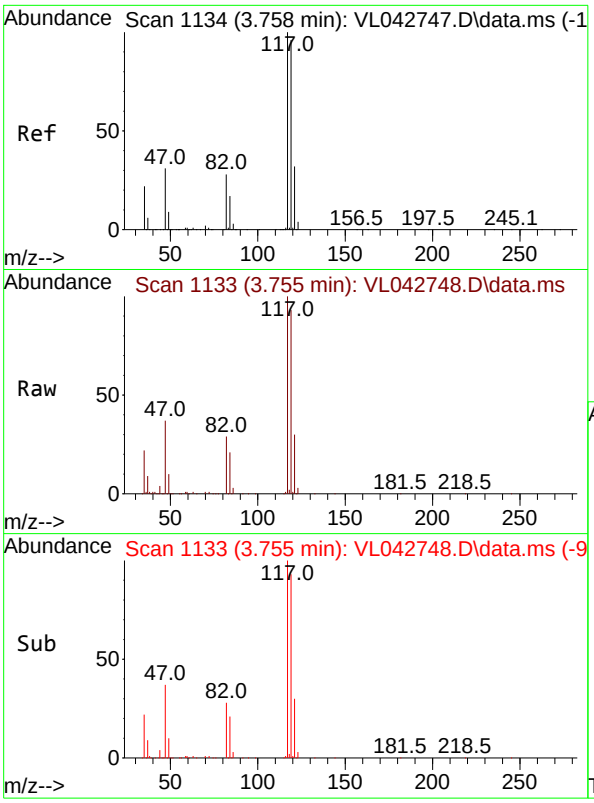


#34
2-Butanone
Concen: 2.149 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 43 Resp: 69674

Ion	Ratio	Lower	Upper
43	100		
72	21.2	17.4	26.0



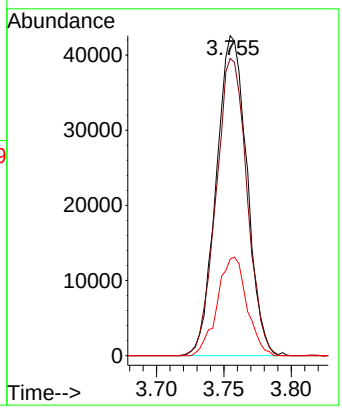


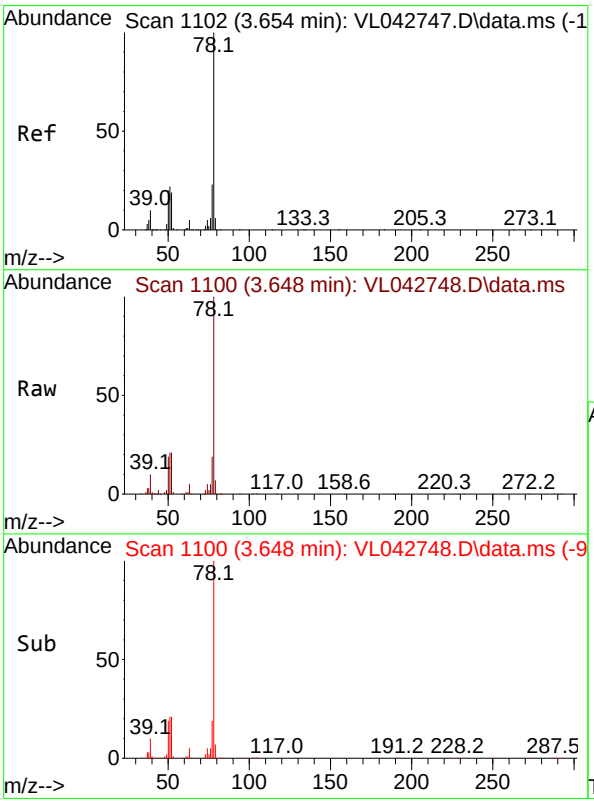
#35
Carbon Tetrachloride
Concen: 1.979 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:117 Resp: 67338

Ion	Ratio	Lower	Upper
117	100		
119	92.9	77.1	115.7
121	30.2	25.5	38.3

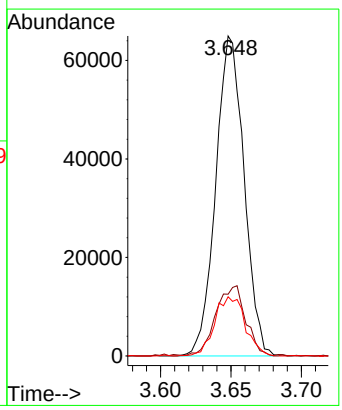


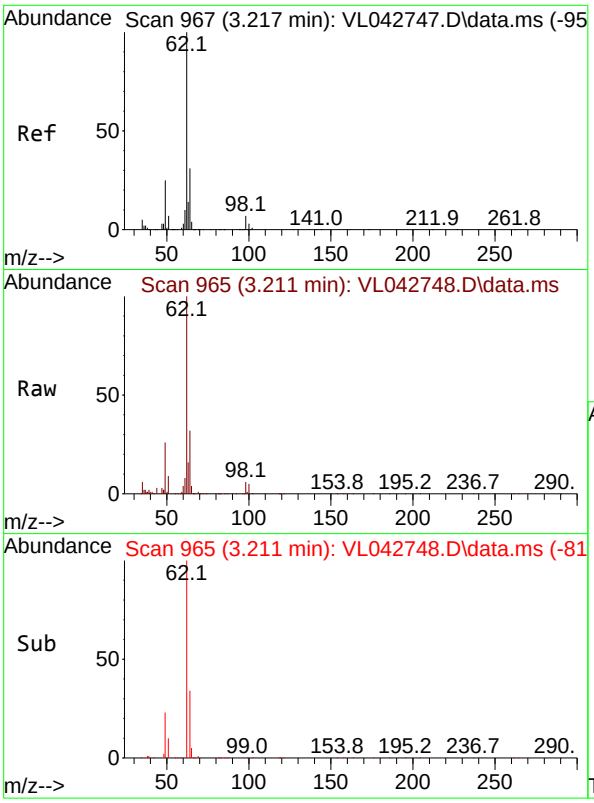


#36
Benzene
Concen: 2.101 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 78 Resp: 91141

Ion	Ratio	Lower	Upper
78	100		
77	19.0	18.5	27.7
50	18.5	16.2	24.2



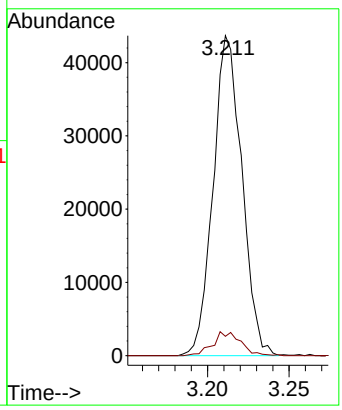


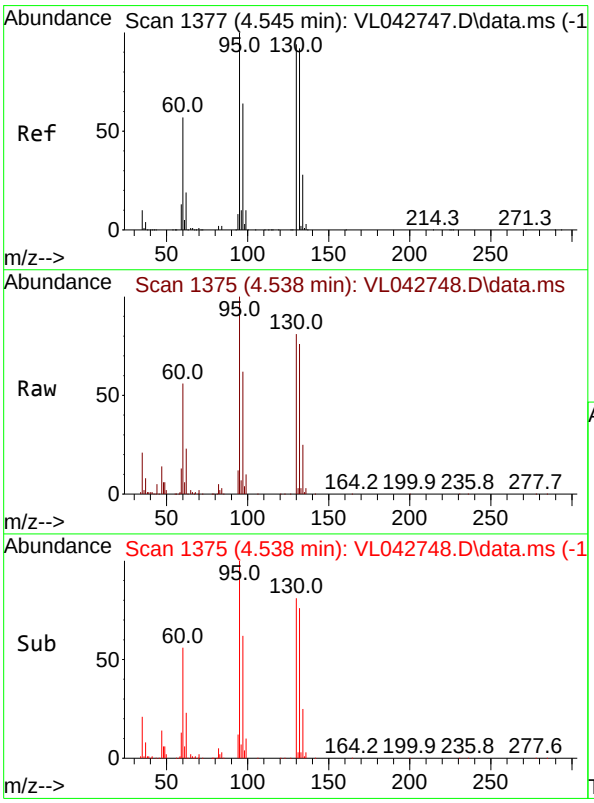
#37
1,2-Dichloroethane
Concen: 2.046 ppbv
RT: 3.211 min Scan# 9
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 53482

Ion	Ratio	Lower	Upper
62	100		
98	7.3	5.2	7.8

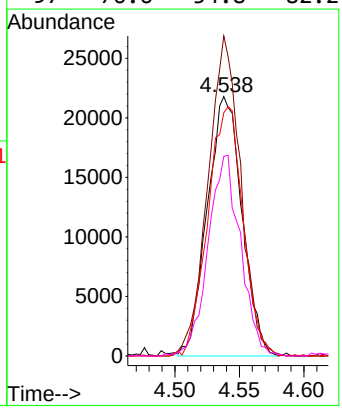


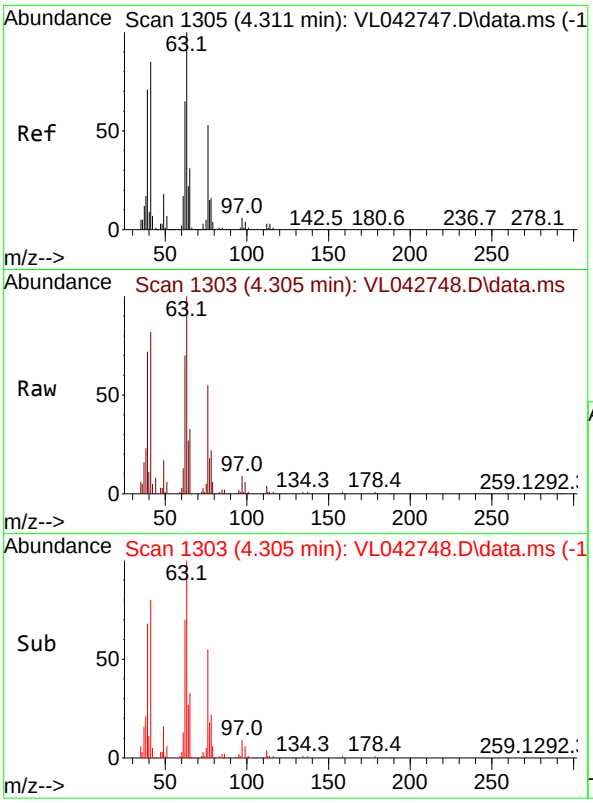


#38
Trichloroethene
Concen: 1.946 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:130 Resp: 40713

Ion	Ratio	Lower	Upper
130	100		
95	122.9	85.4	128.2
132	94.1	78.2	117.2
97	76.6	54.8	82.2



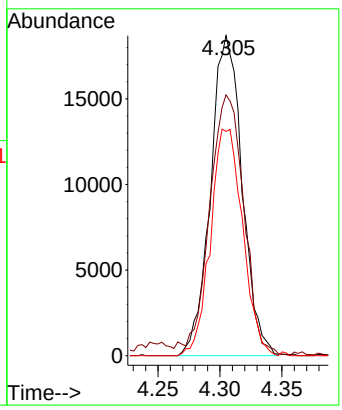


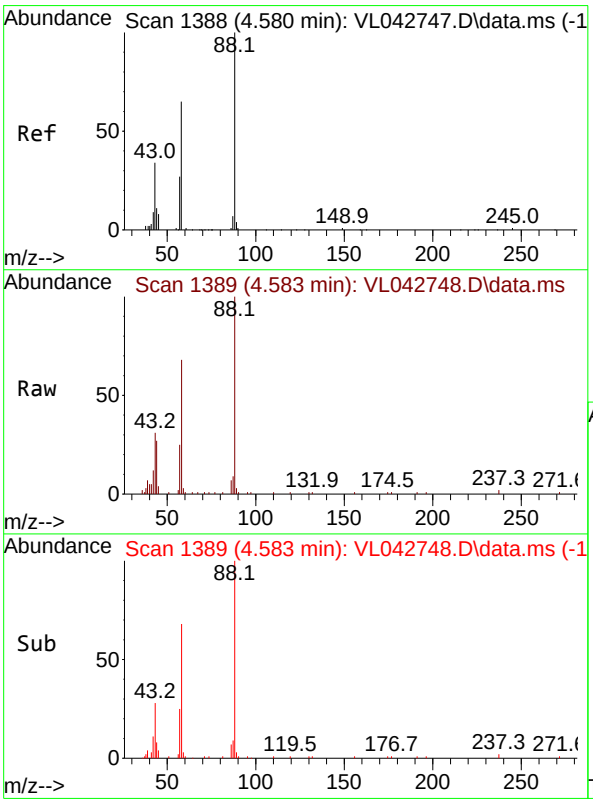
#39
1,2-Dichloropropane
Concen: 2.075 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 63 Resp: 33225

Ion	Ratio	Lower	Upper
63	100		
41	80.8	68.2	102.4
62	70.1	52.0	78.0

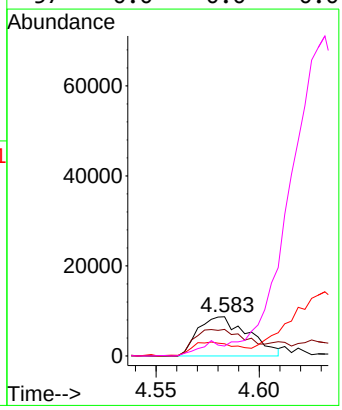


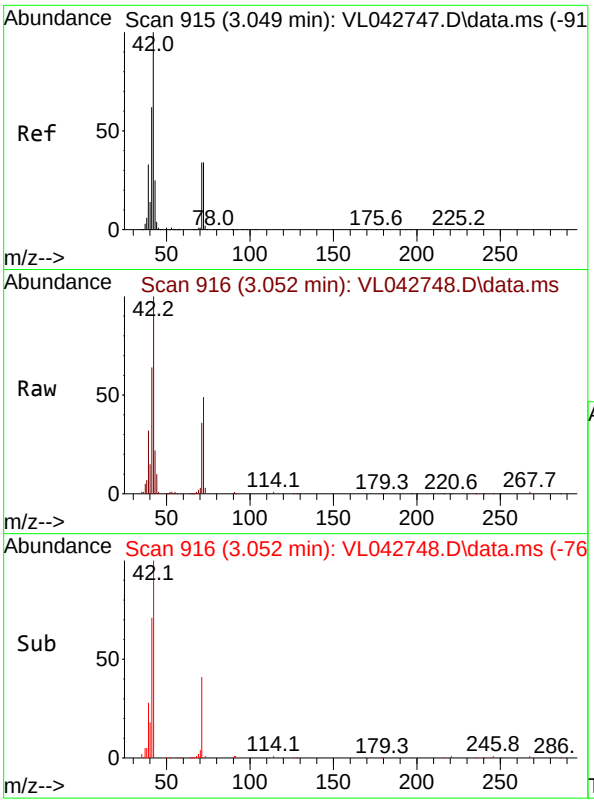


#40
1,4-Dioxane
Concen: 1.953 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 88 Resp: 14747

Ion	Ratio	Lower	Upper
88	100		
58	87.2	58.8	88.2
43	0.0	28.9	43.3#
57	0.0	0.0	0.0



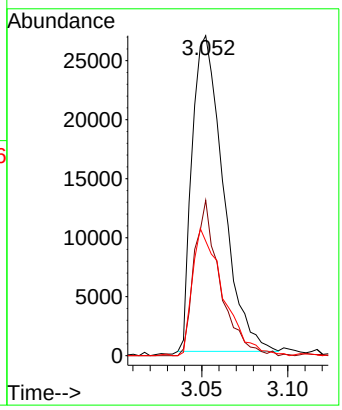


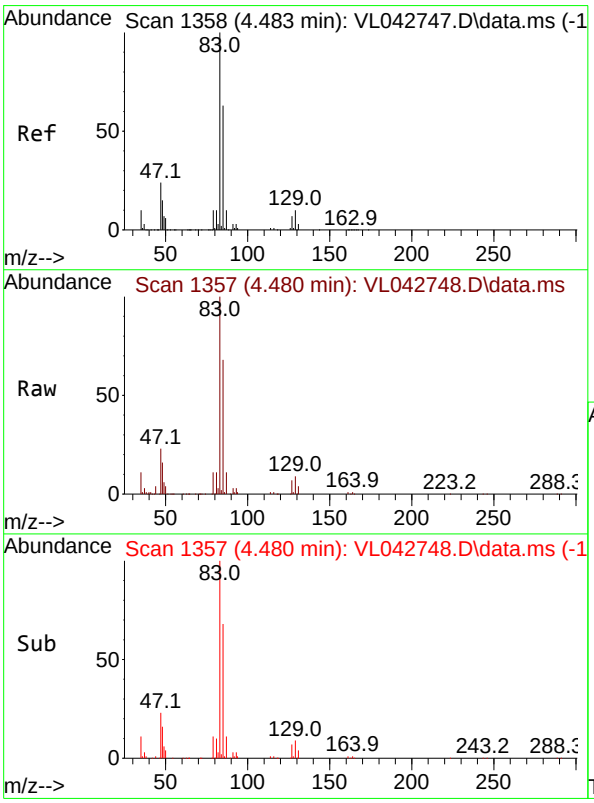
#41
Tetrahydrofuran
Concen: 2.064 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 42 Resp: 33618

Ion	Ratio	Lower	Upper
42	100		
72	41.3	30.9	46.3
71	40.4	28.6	43.0

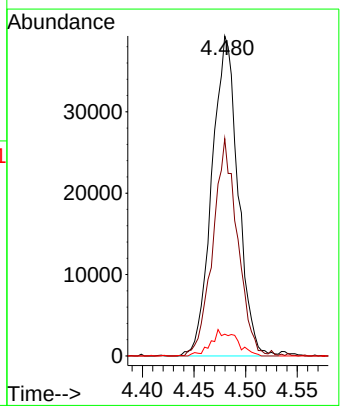


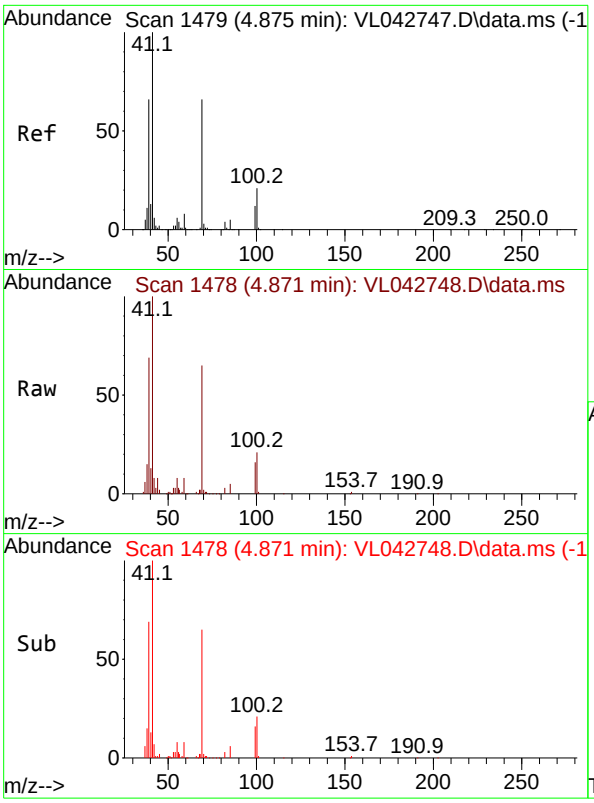


#42
Bromodichloromethane
Concen: 2.028 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 83 Resp: 69093

Ion	Ratio	Lower	Upper
83	100		
85	67.9	50.2	75.4
127	6.8	5.4	8.2



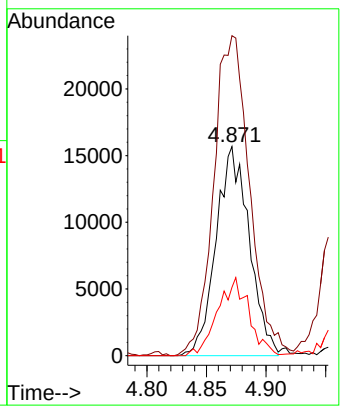


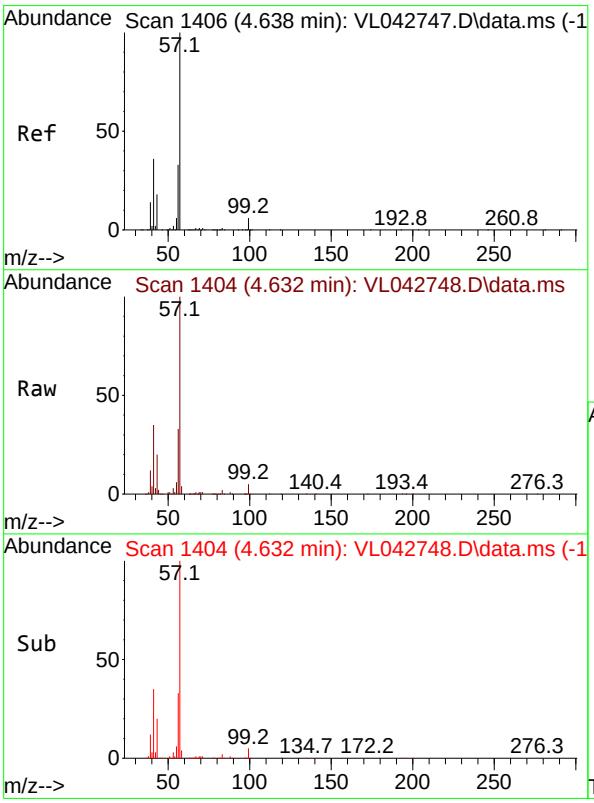
#43
Methyl Methacrylate
Concen: 1.967 ppbv
RT: 4.871 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 69 Resp: 30336

Ion	Ratio	Lower	Upper
69	100		
41	164.3	125.7	188.5
100	35.5	28.6	42.8

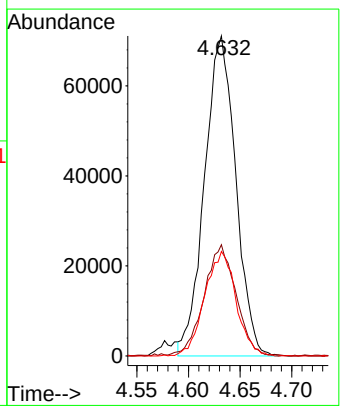


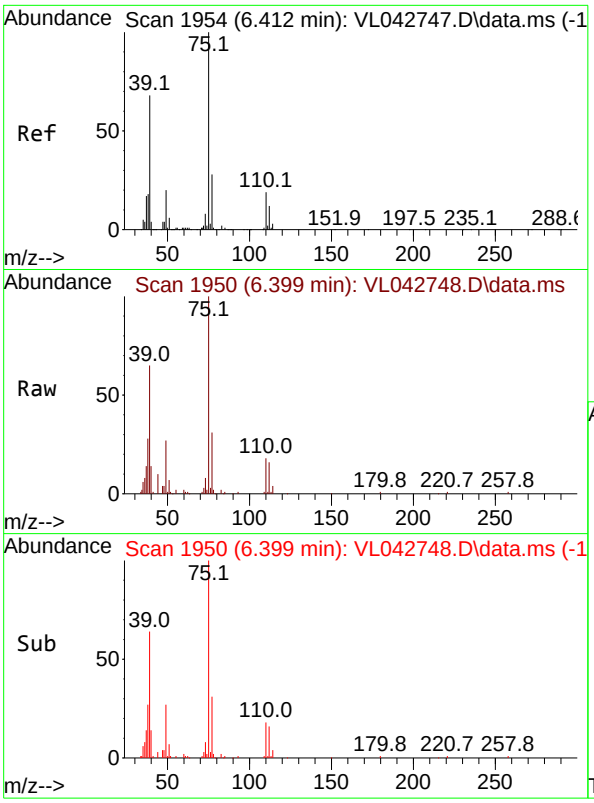


#44
2,2,4-Trimethylpentane
Concen: 2.115 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 57 Resp: 149588

Ion	Ratio	Lower	Upper
57	100		
41	36.0	28.3	42.5
56	32.9	25.8	38.6



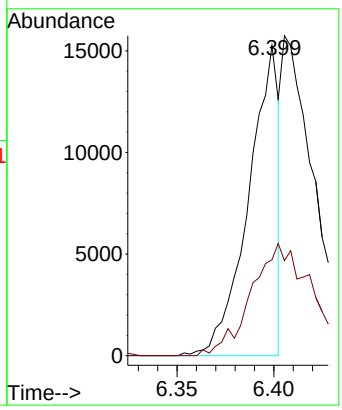


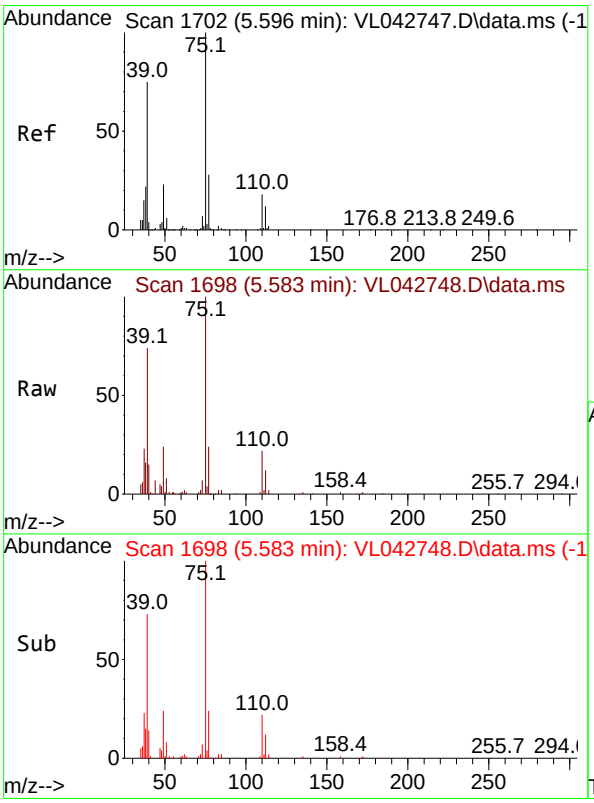
#45
t-1,3-Dichloropropene
Concen: 0.957 ppbv
RT: 6.399 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 75 Resp: 16554

Ion	Ratio	Lower	Upper
75	100		
77	30.9	22.4	33.6

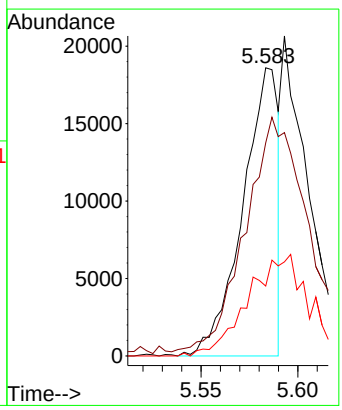


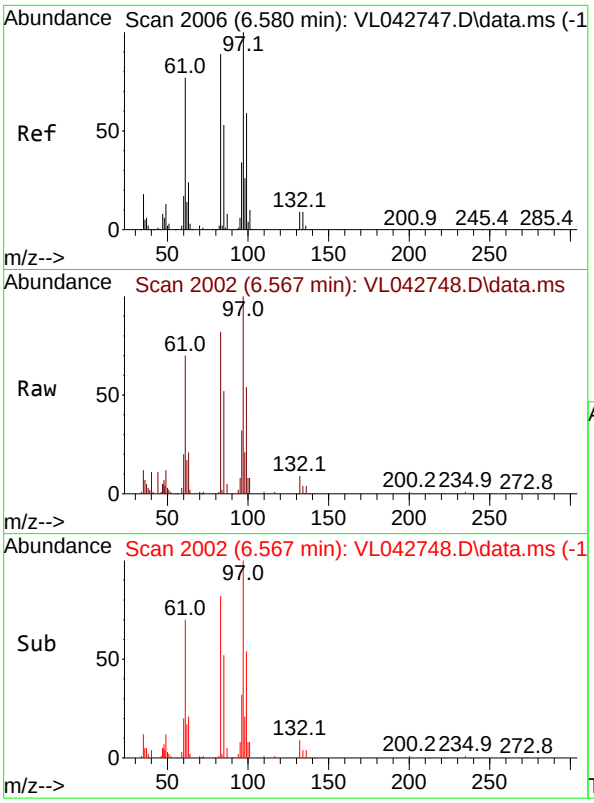


#46
cis-1,3-Dichloropropene
Concen: 1.084 ppbv
RT: 5.583 min Scan# 1698
Delta R.T. -0.013 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 75 Resp: 23760

Ion	Ratio	Lower	Upper
75	100		
39	71.8	60.2	90.2
77	24.2	22.6	34.0



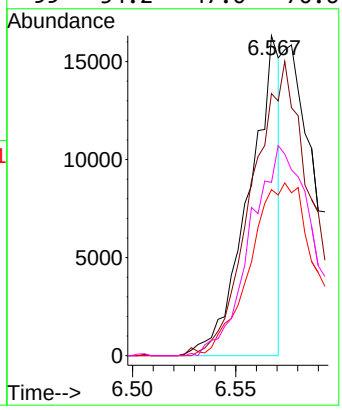


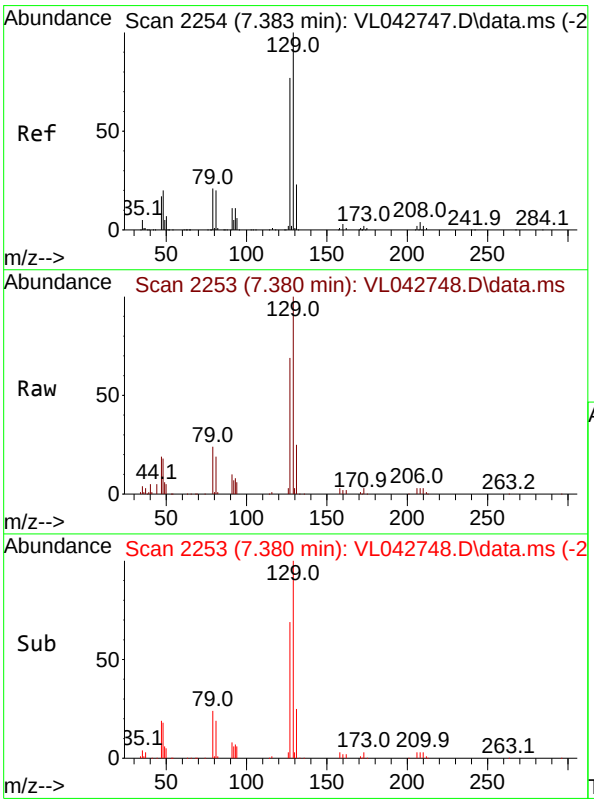
#47
1,1,2-Trichloroethane
Concen: 0.988 ppbv
RT: 6.567 min Scan# 2
Delta R.T. -0.013 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 97 Resp: 16867

Ion	Ratio	Lower	Upper
97	100		
83	81.9	71.1	106.7
85	51.9	43.0	64.4
99	54.2	47.0	70.6

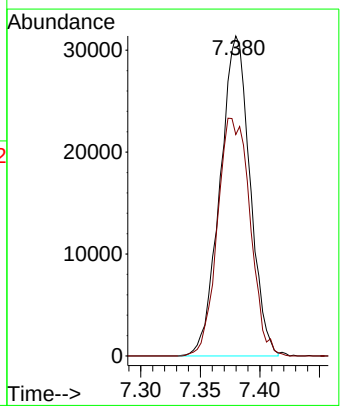


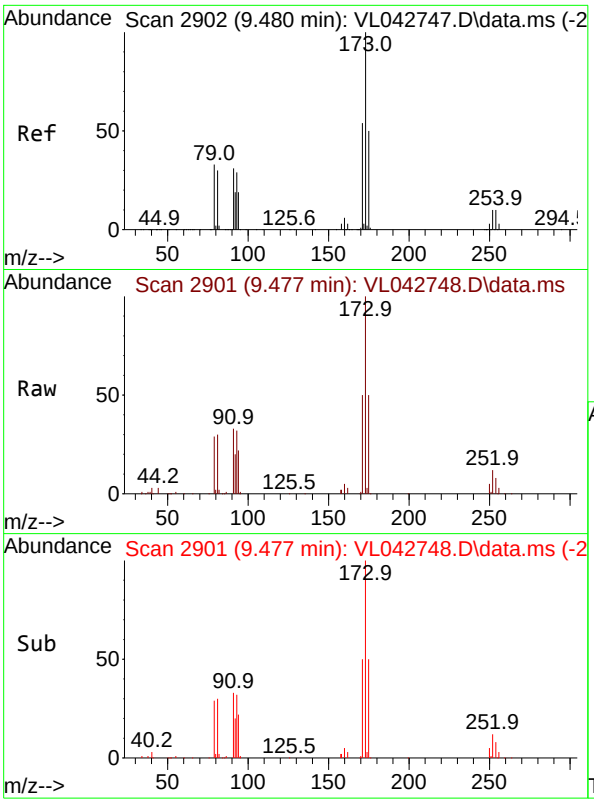


#48
Dibromochloromethane
Concen: 2.026 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:129 Resp: 54906

Ion	Ratio	Lower	Upper
129	100		
127	80.8	38.7	116.1



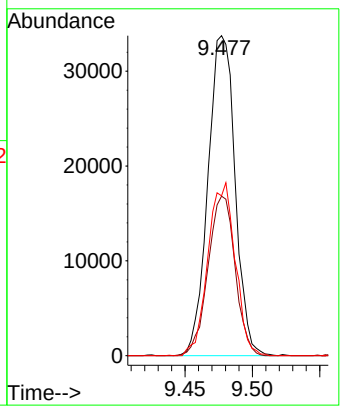


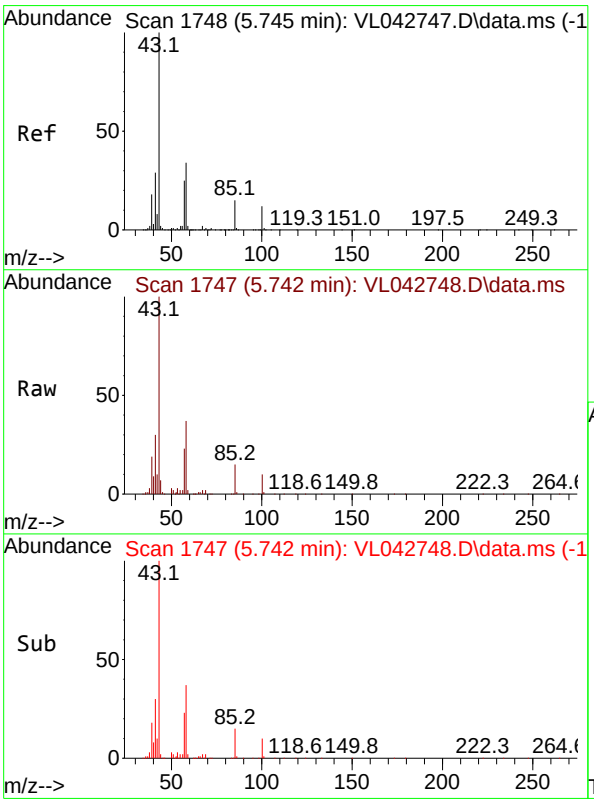
#49
Bromoform
Concen: 2.003 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:173 Resp: 47340

Ion	Ratio	Lower	Upper
173	100		
175	49.7	38.4	57.6
171	54.2	40.9	61.3

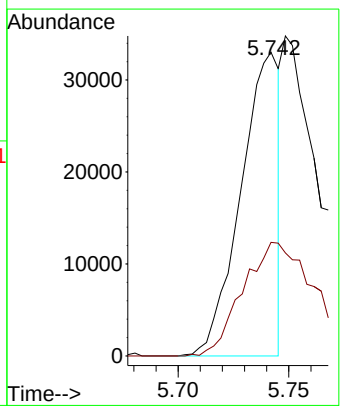


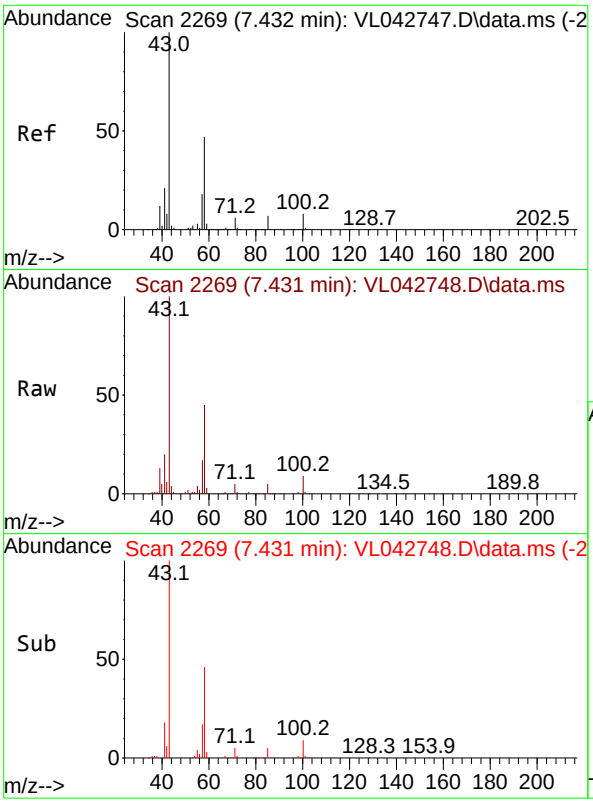


#50
4-Methyl-2-Pentanone
Concen: 0.966 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 43 Resp: 39913

Ion	Ratio	Lower	Upper
43	100		
58	76.3	27.8	41.8#



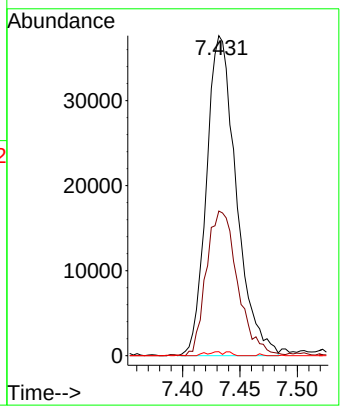


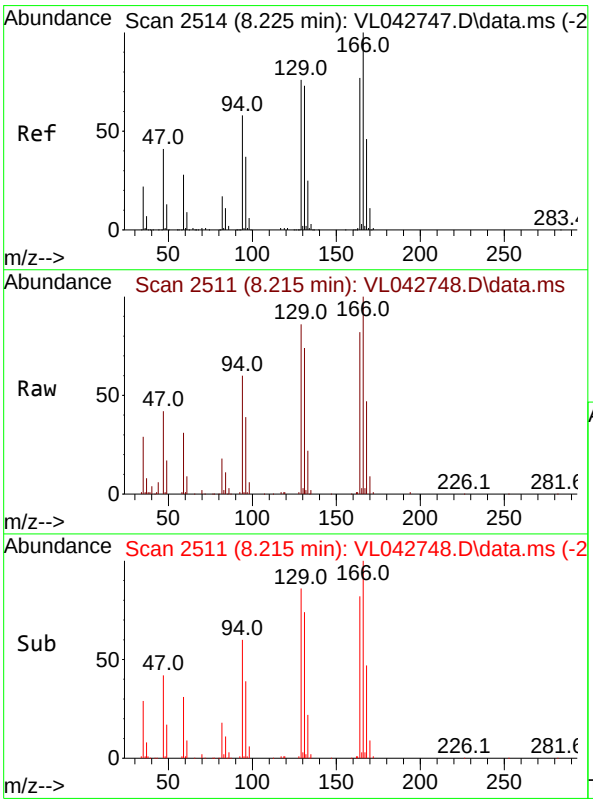
#51
2-Hexanone
Concen: 2.157 ppbv
RT: 7.431 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 68093

Ion	Ratio	Lower	Upper
43	100		
58	48.2	38.0	57.0
98	1.0	0.2	0.4#

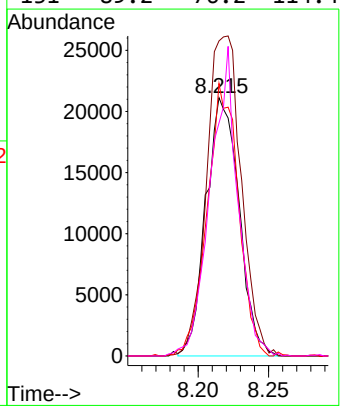


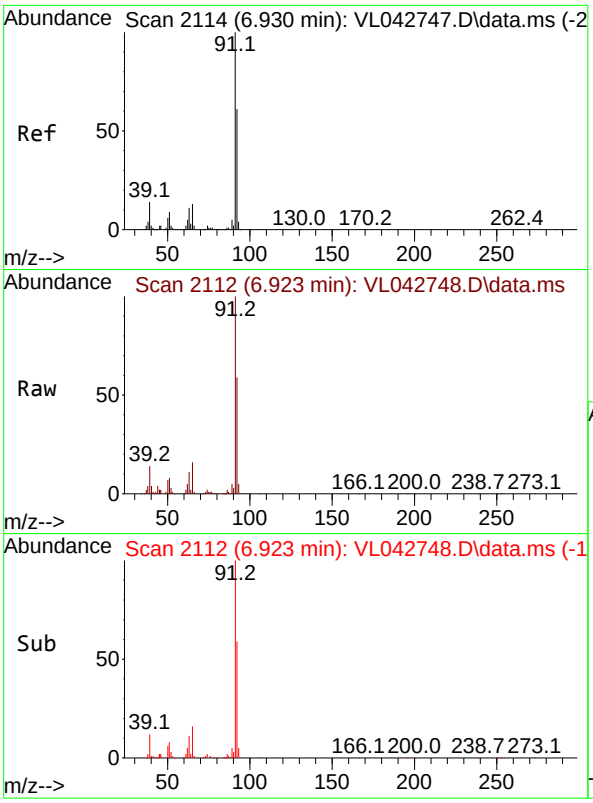


#52
Tetrachloroethene
Concen: 1.917 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:164 Resp: 34568

Ion	Ratio	Lower	Upper
164	100		
166	121.7	104.0	156.0
129	103.9	79.2	118.8
131	89.2	76.2	114.4



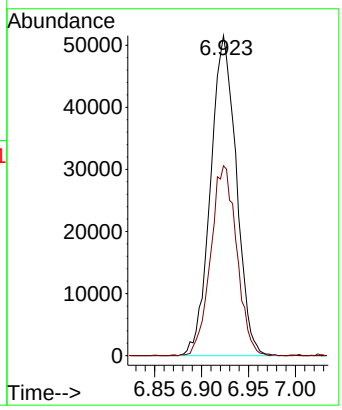


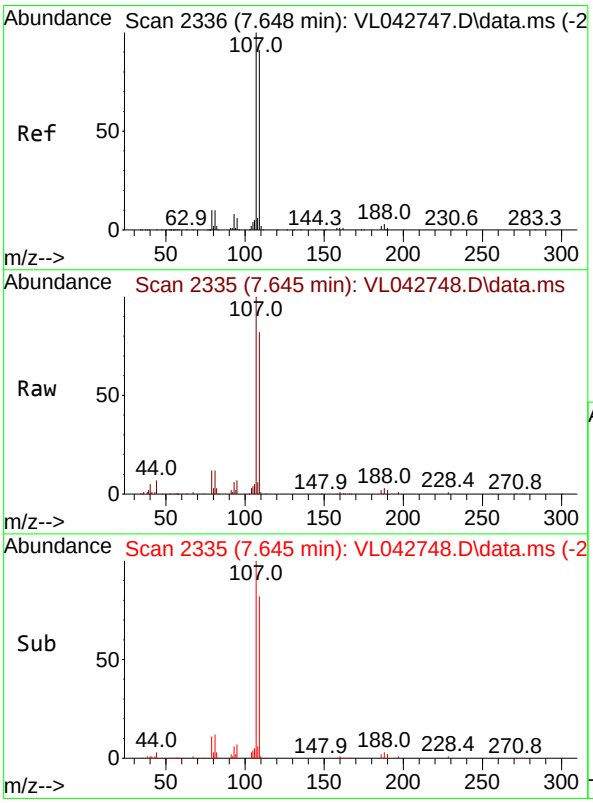
#53
Toluene
Concen: 2.111 ppbv
RT: 6.923 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 98346

Ion	Ratio	Lower	Upper
91	100		
92	59.8	48.0	72.0

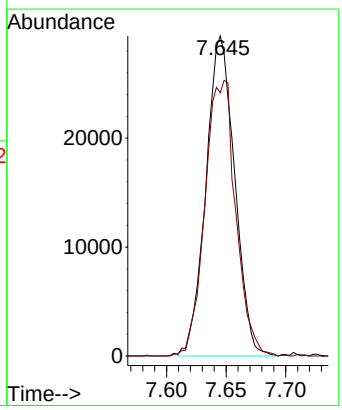


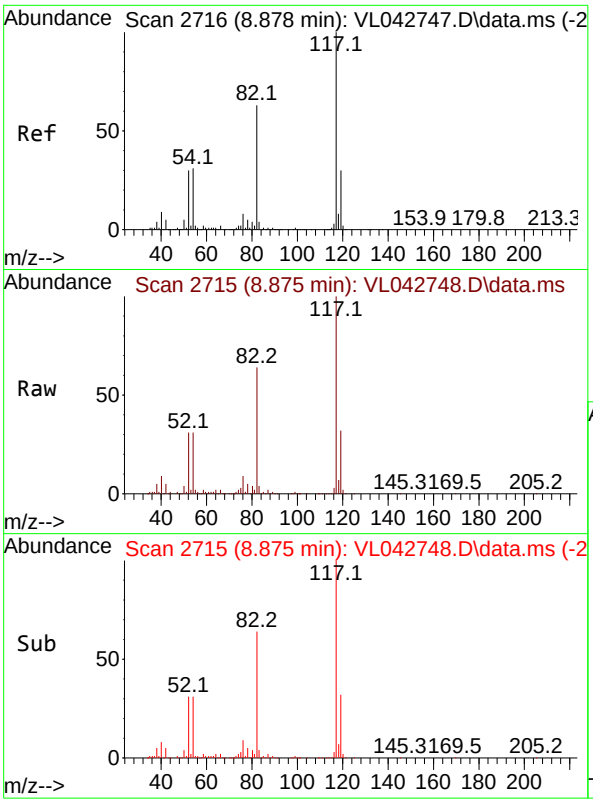


#54
1,2-Dibromoethane
Concen: 2.042 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:107 Resp: 49346

Ion	Ratio	Lower	Upper
107	100		
109	82.2	72.7	109.1



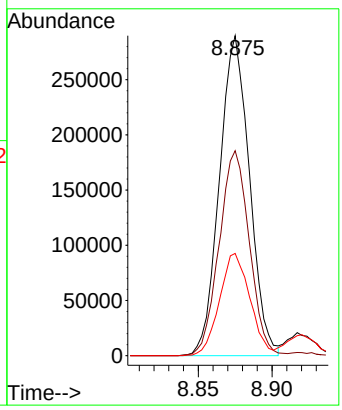


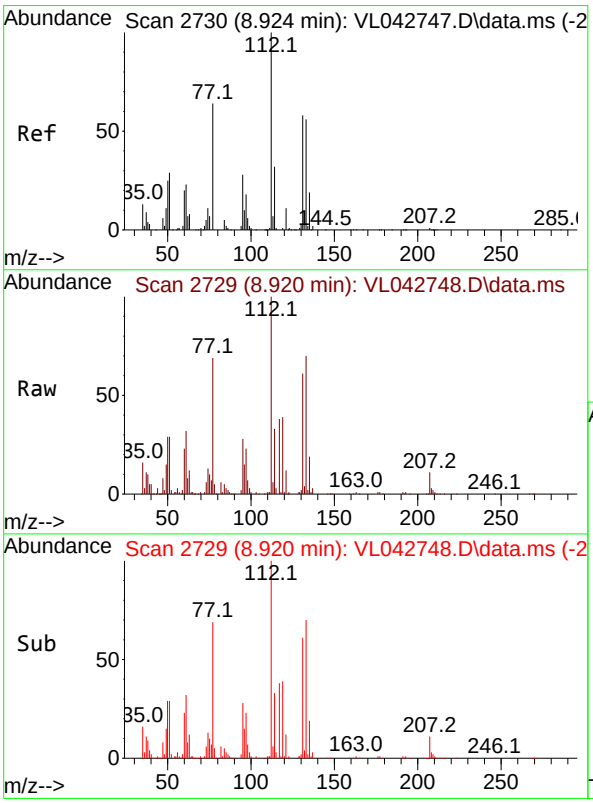
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:117 Resp: 410740

Ion	Ratio	Lower	Upper
117	100		
82	65.2	53.3	79.9
119	33.2	25.8	38.6

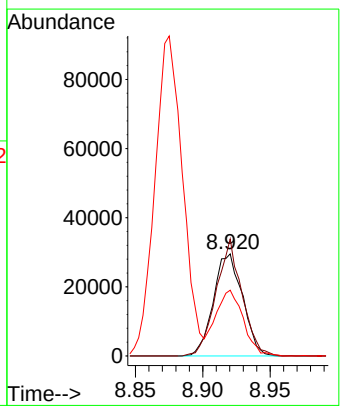


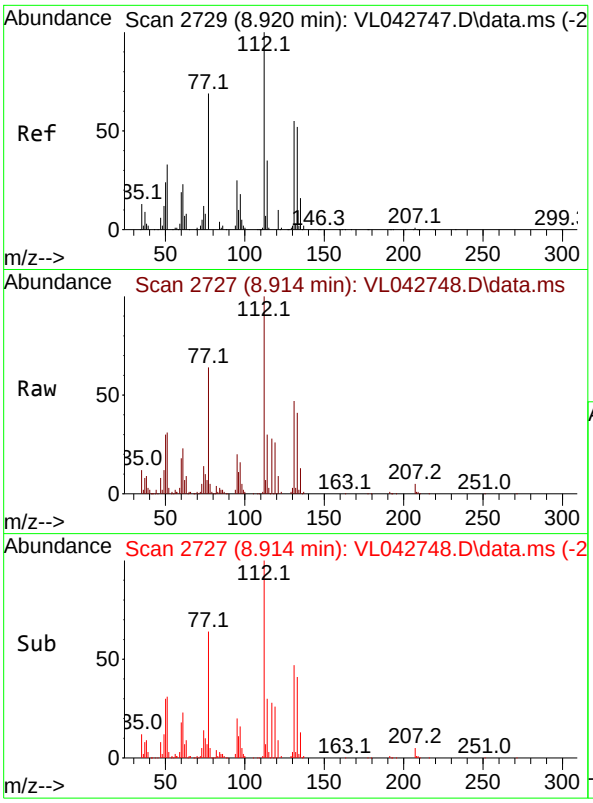


#56
1,1,1,2-Tetrachloroethane
Concen: 2.079 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:131 Resp: 44409

Ion	Ratio	Lower	Upper
131	100		
133	102.1	76.8	115.2
119	54.2	49.7	74.5



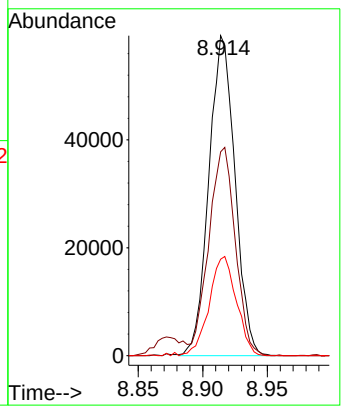


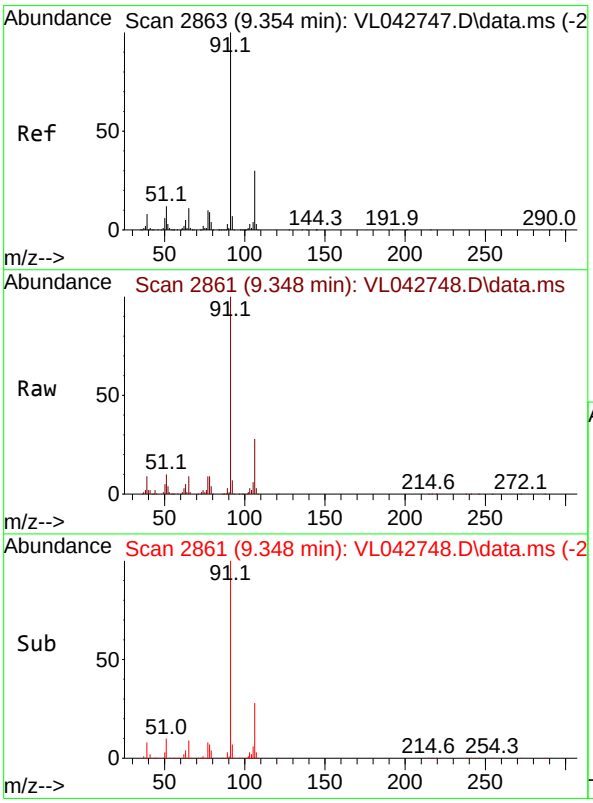
#57
Chlorobenzene
Concen: 2.101 ppbv
RT: 8.914 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:112 Resp: 83503

Ion	Ratio	Lower	Upper
112	100		
77	63.5	56.4	84.6
114	30.2	31.2	38.2#

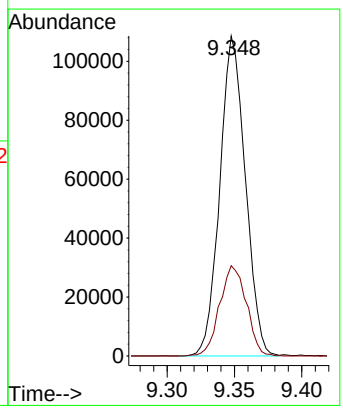


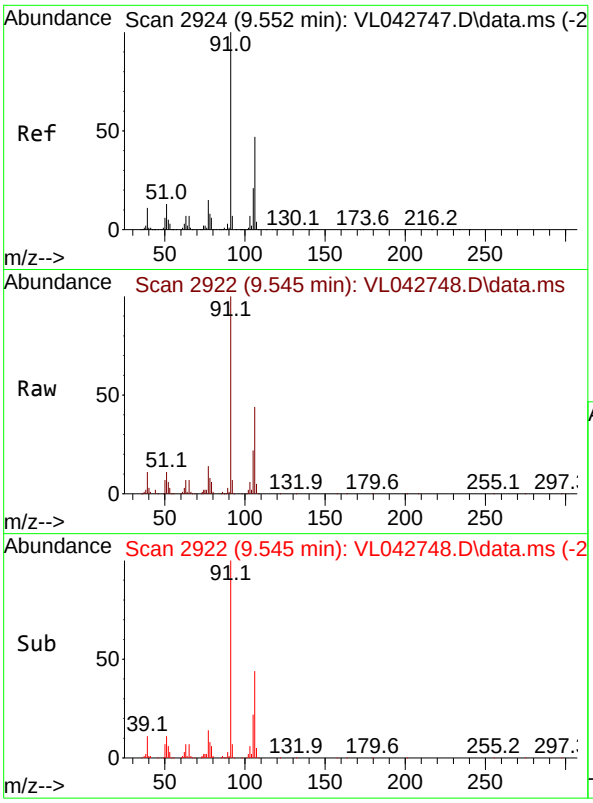


#58
Ethyl Benzene
Concen: 2.208 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 143251

Ion	Ratio	Lower	Upper
91	100		
106	28.2	23.8	35.6



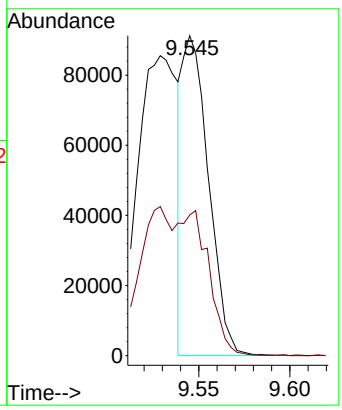


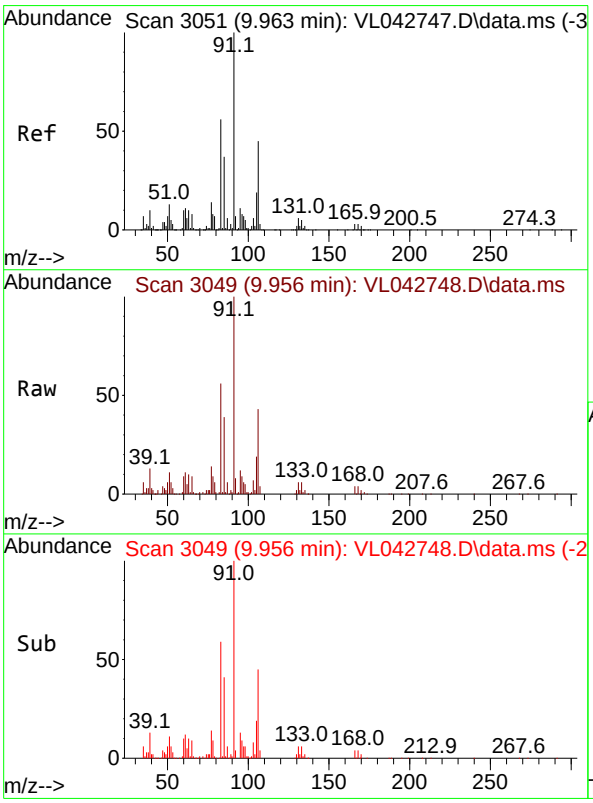
#59
m/p-Xylene
Concen: 1.758 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 91147

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

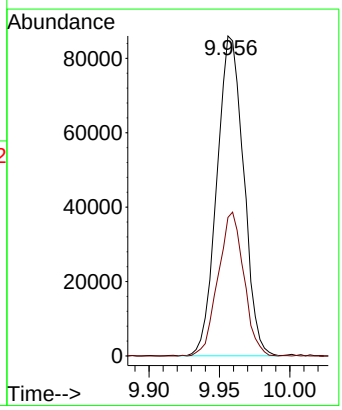


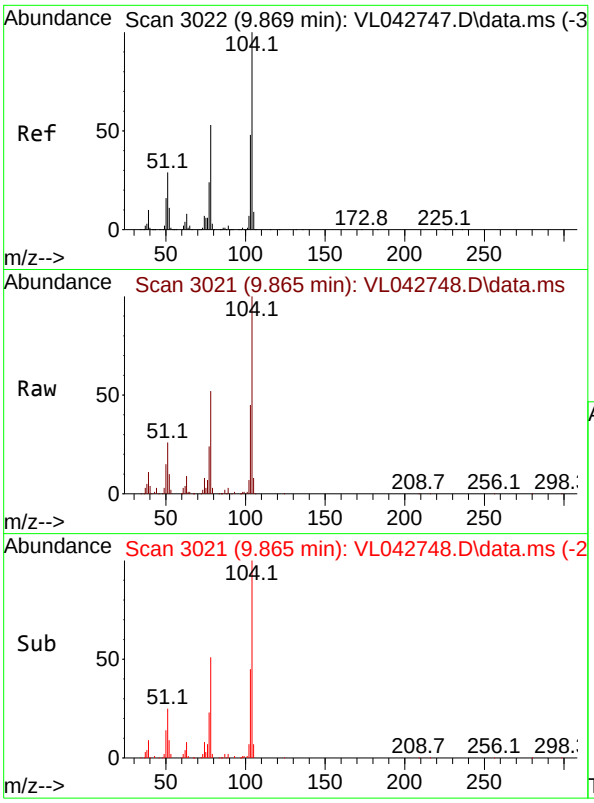


#60
o-Xylene
Concen: 2.190 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 113462

Ion	Ratio	Lower	Upper
91	100		
106	43.4	22.0	66.0



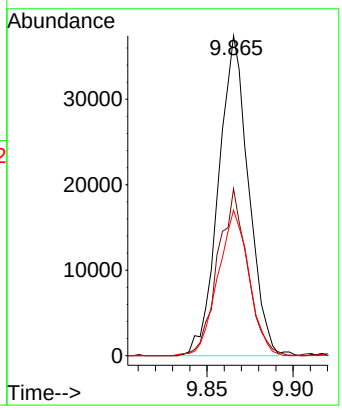


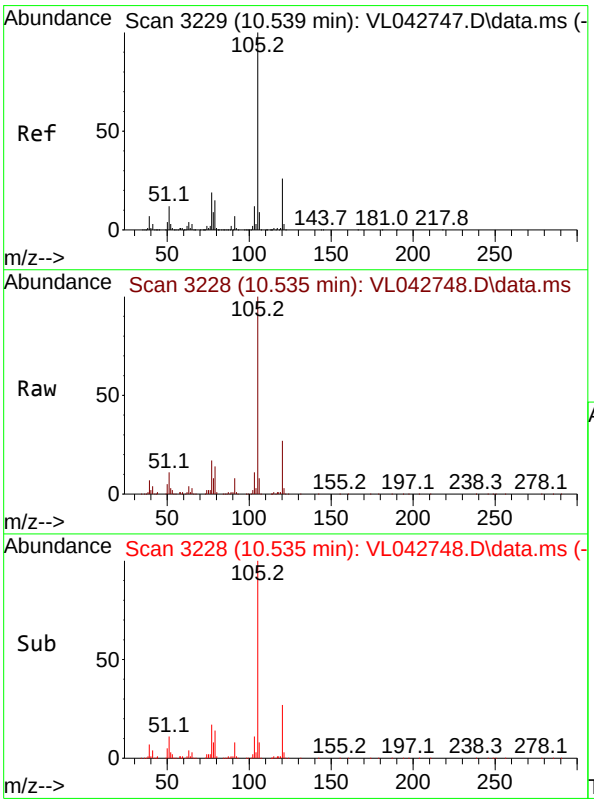
#61
Styrene
Concen: 2.081 ppbv
RT: 9.865 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:104 Resp: 45351

Ion	Ratio	Lower	Upper
104	100		
78	51.7	41.5	62.3
103	47.1	37.5	56.3

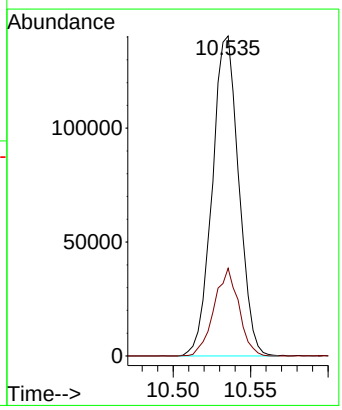


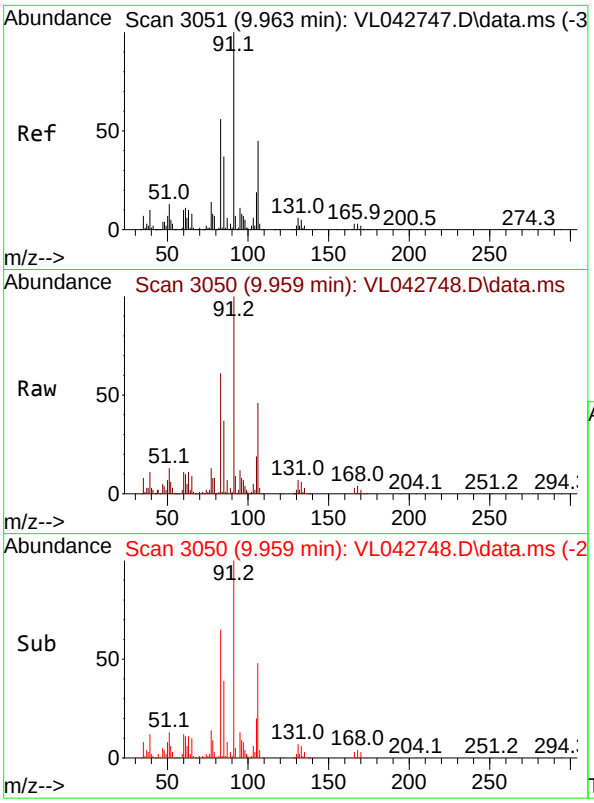


#62
Isopropylbenzene
Concen: 2.187 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 167108

Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.5	30.7



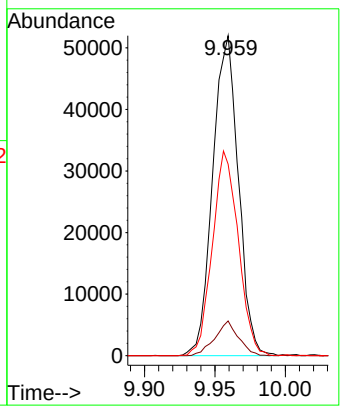


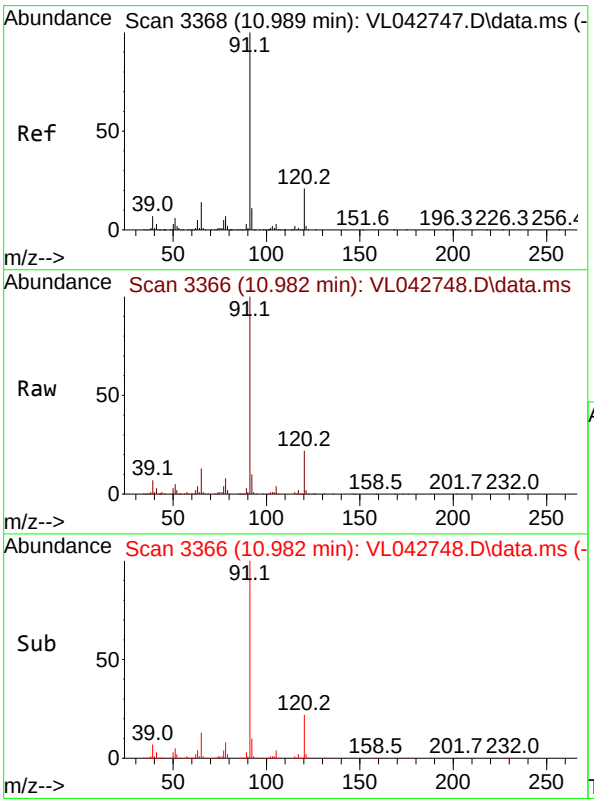
#63
1,1,2,2-Tetrachloroethane
Concen: 1.954 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 65928

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	15.0
85	64.7	32.6	97.7

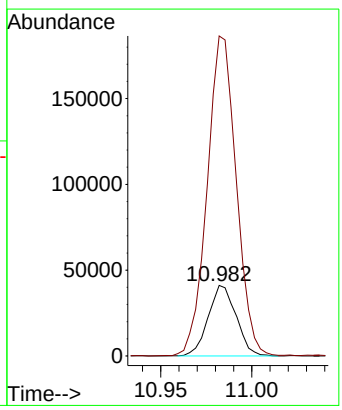


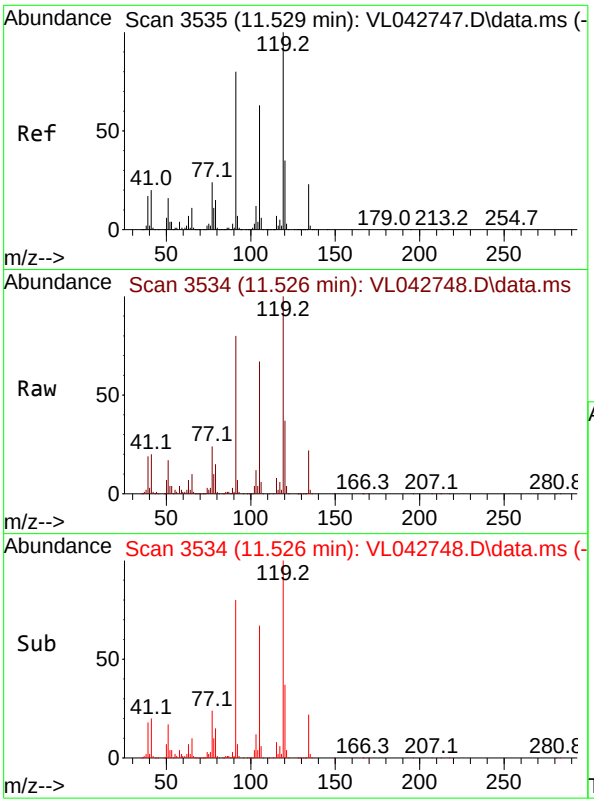


#64
n-propylbenzene
Concen: 2.198 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:120 Resp: 43789

Ion	Ratio	Lower	Upper
120	100		
91	472.1	372.7	559.1



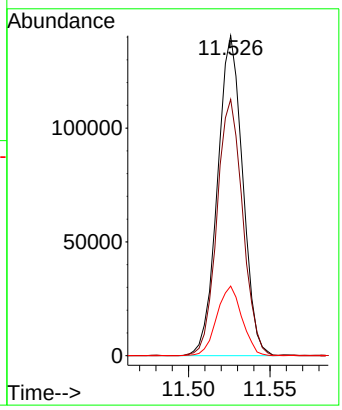


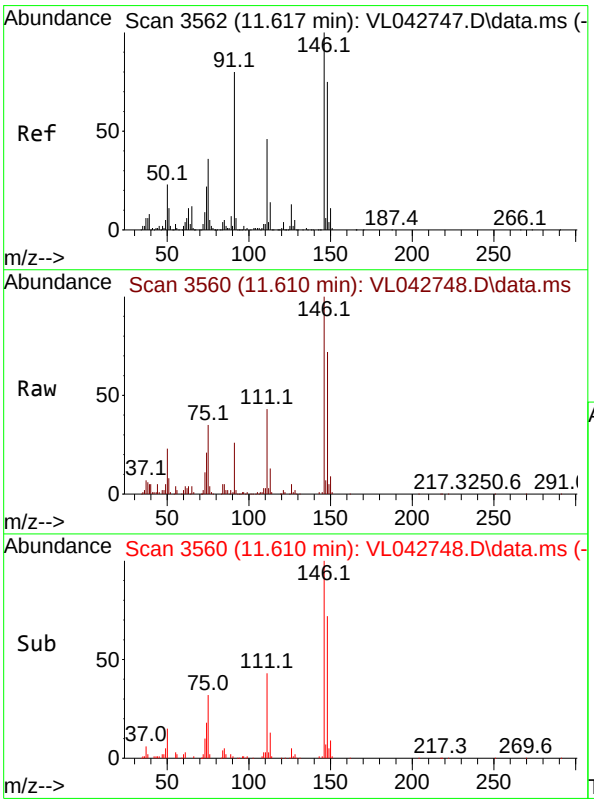
#65
tert-Butylbenzene
Concen: 2.226 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:119 Resp: 151081

Ion	Ratio	Lower	Upper
119	100		
91	81.8	64.0	96.0
134	21.7	17.3	25.9

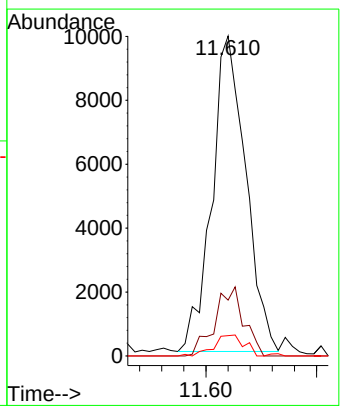


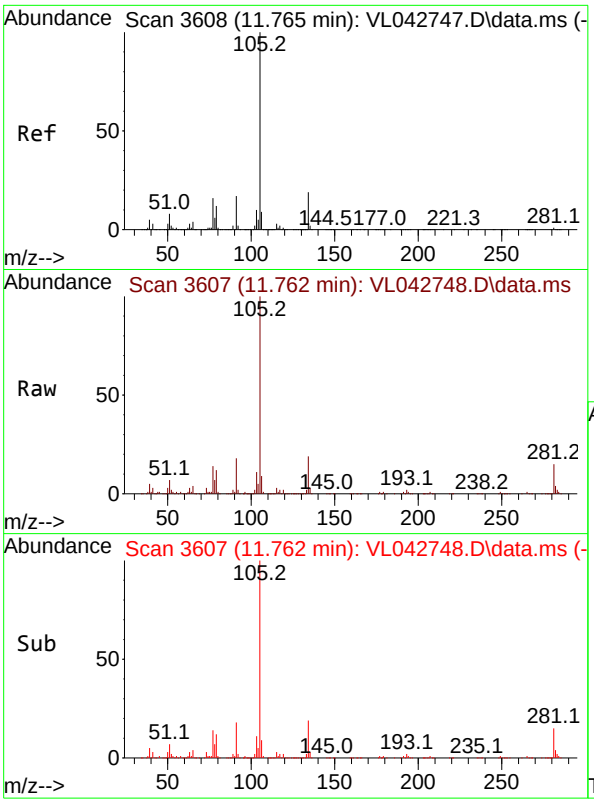


#66
Benzyl Chloride
Concen: 1.882 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 10485

Ion	Ratio	Lower	Upper
91	100		
126	18.8	14.4	21.6
128	6.2	5.2	7.8



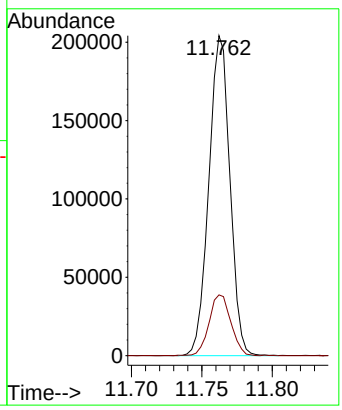


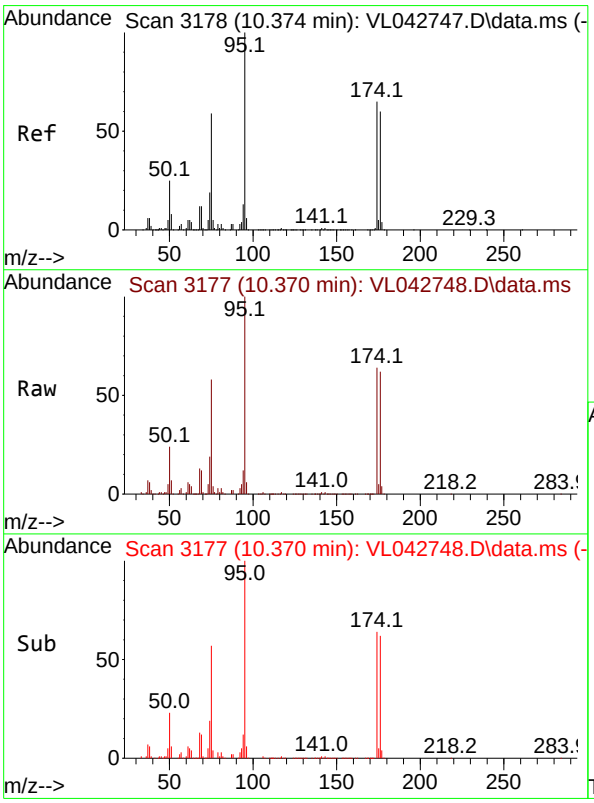
#67
sec-Butylbenzene
Concen: 2.206 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 212925

Ion	Ratio	Lower	Upper
105	100		
134	19.8	15.5	23.3

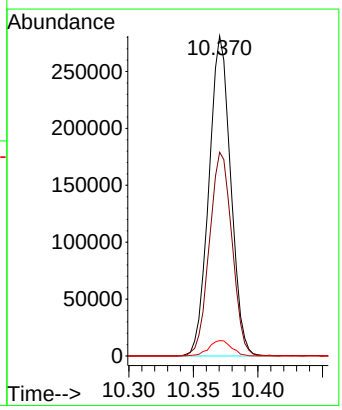


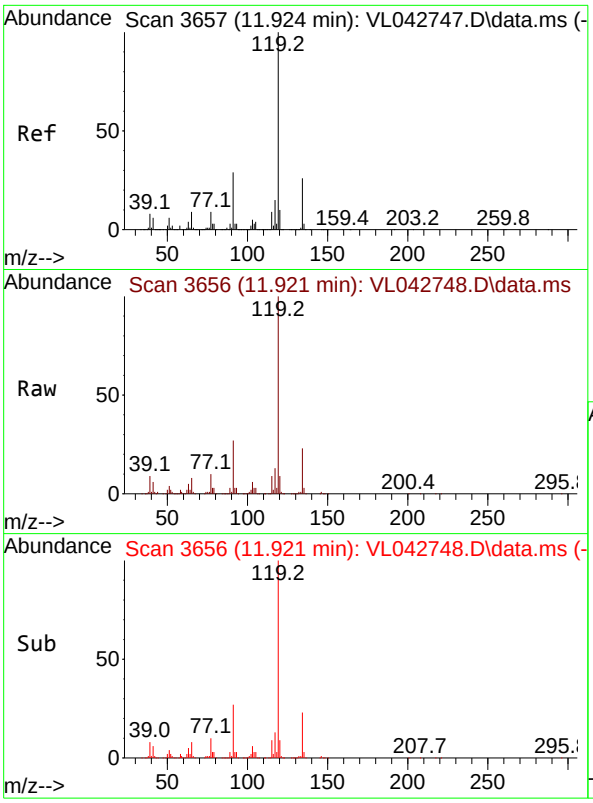


#68
1-Bromo-4-Fluorobenzene
Concen: 10.160 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 95 Resp: 330476

Ion	Ratio	Lower	Upper
95	100		
174	66.2	53.8	80.6
175	5.0	4.0	6.0



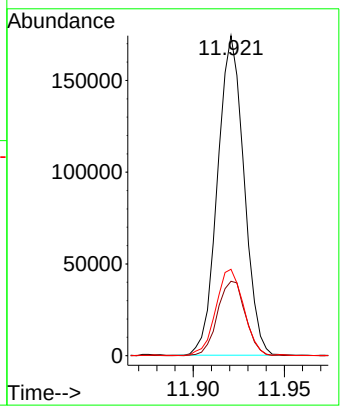


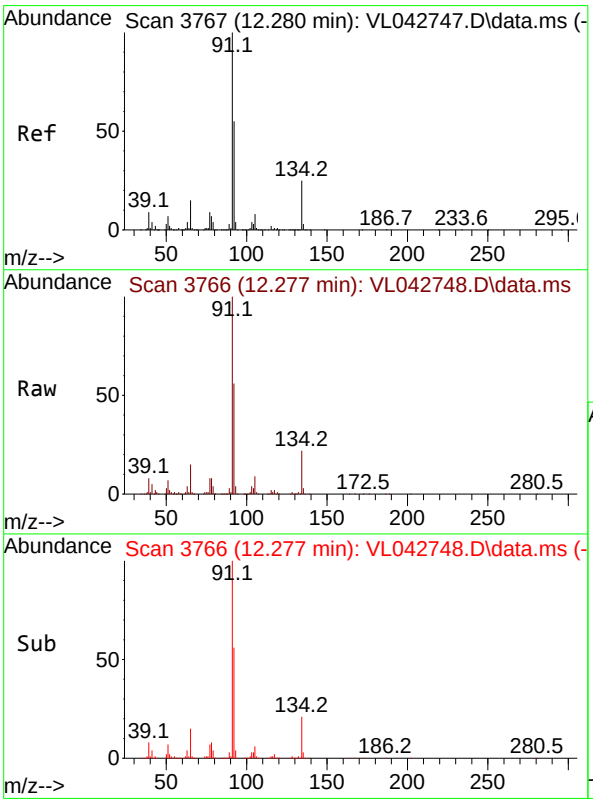
#69
p-Isopropyltoluene
Concen: 2.230 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:119 Resp: 175553

Ion	Ratio	Lower	Upper
119	100		
134	24.7	20.6	31.0
91	29.0	23.2	34.8

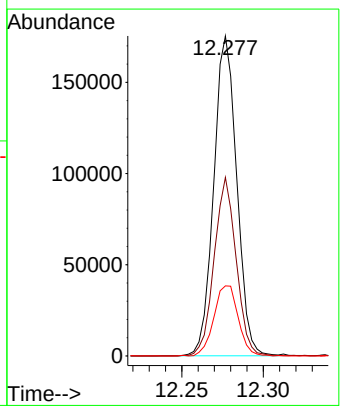


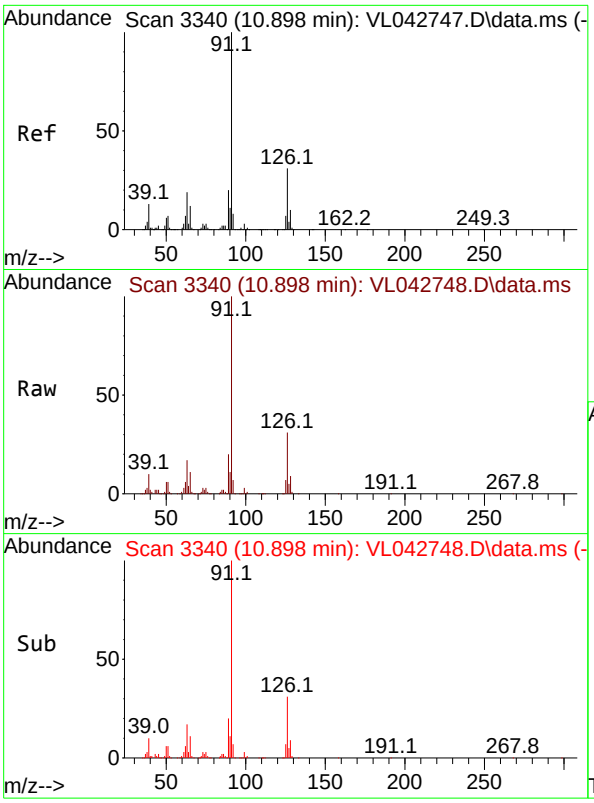


#70
n-Butylbenzene
Concen: 2.258 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 171675

Ion	Ratio	Lower	Upper
91	100		
92	53.7	43.4	65.2
134	23.4	19.6	29.4



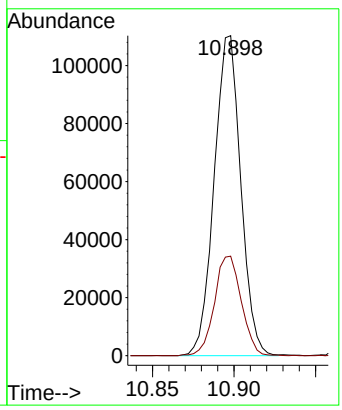


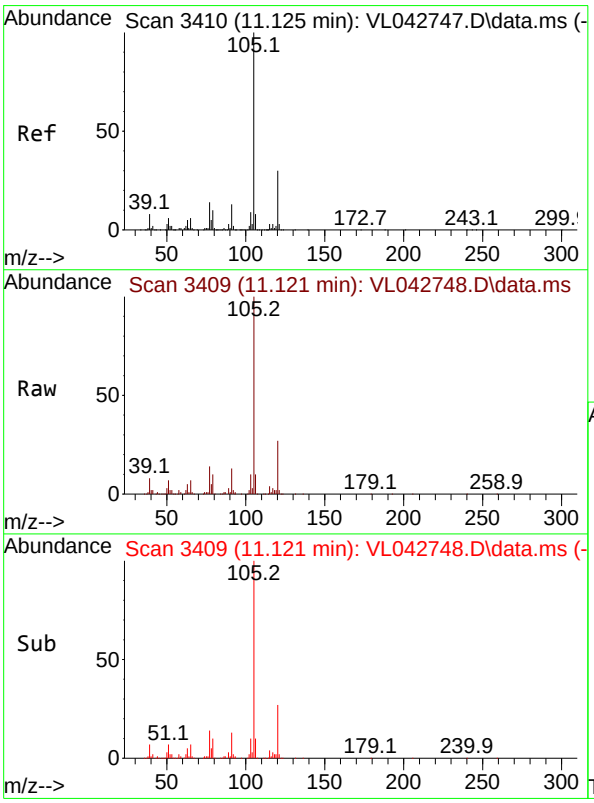
#71
2-Chlorotoluene
Concen: 2.134 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 125039

Ion	Ratio	Lower	Upper
91	100		
126	31.4	12.0	48.2

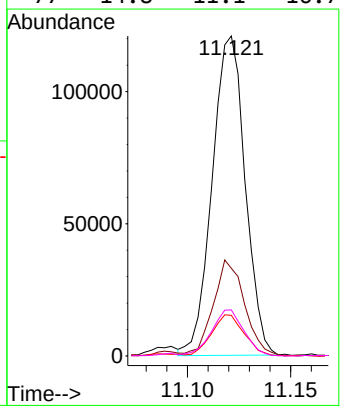


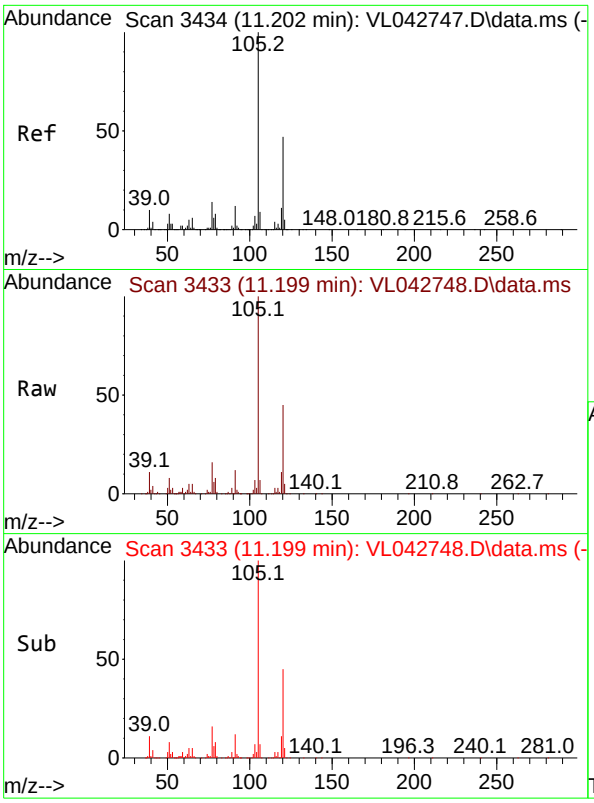


#72
4-Ethyltoluene
Concen: 2.168 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 134097

Ion	Ratio	Lower	Upper
105	100		
120	29.7	24.4	36.6
91	13.7	10.6	15.8
77	14.8	11.1	16.7



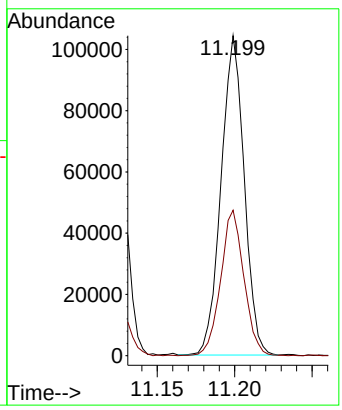


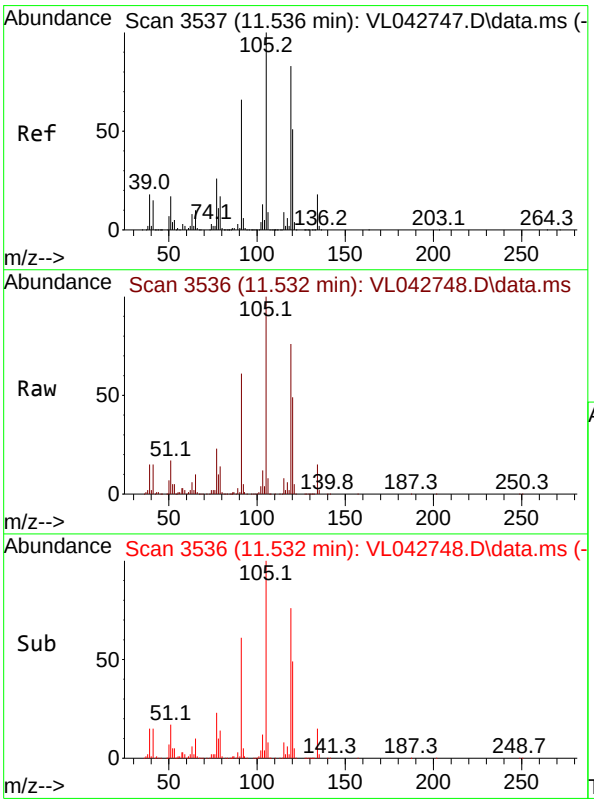
#73
1,3,5-Trimethylbenzene
Concen: 2.122 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 108055

Ion	Ratio	Lower	Upper
105	100		
120	45.6	37.8	56.8

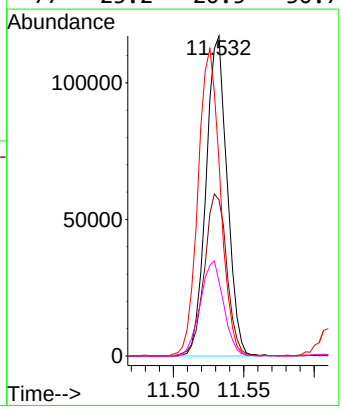


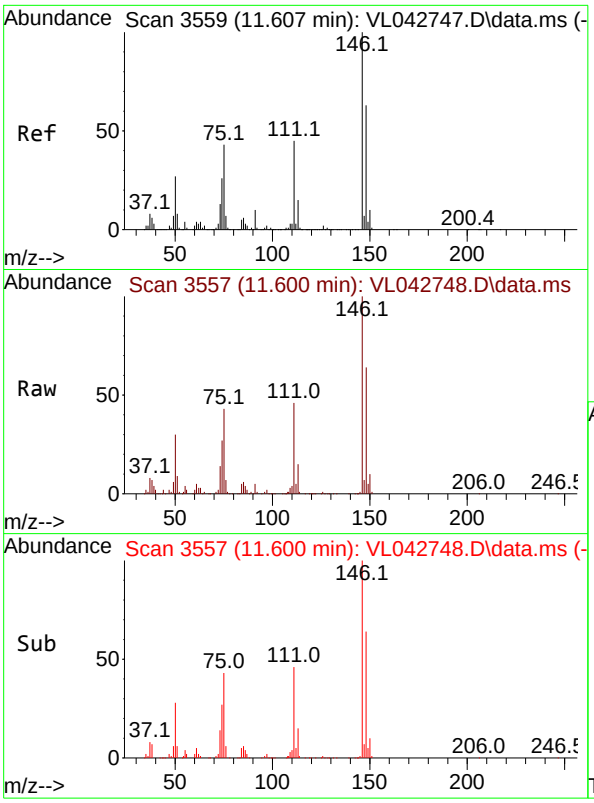


#74
1,2,4-Trimethylbenzene
Concen: 2.201 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 122295

Ion	Ratio	Lower	Upper
105	100		
120	48.6	40.8	61.2
91	60.6	53.0	79.4
77	23.2	20.5	30.7



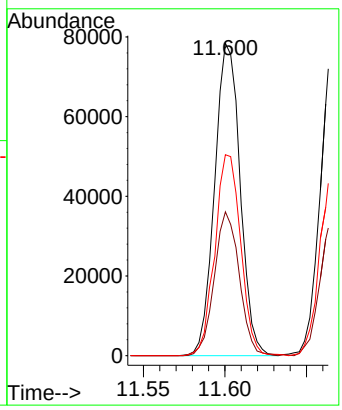


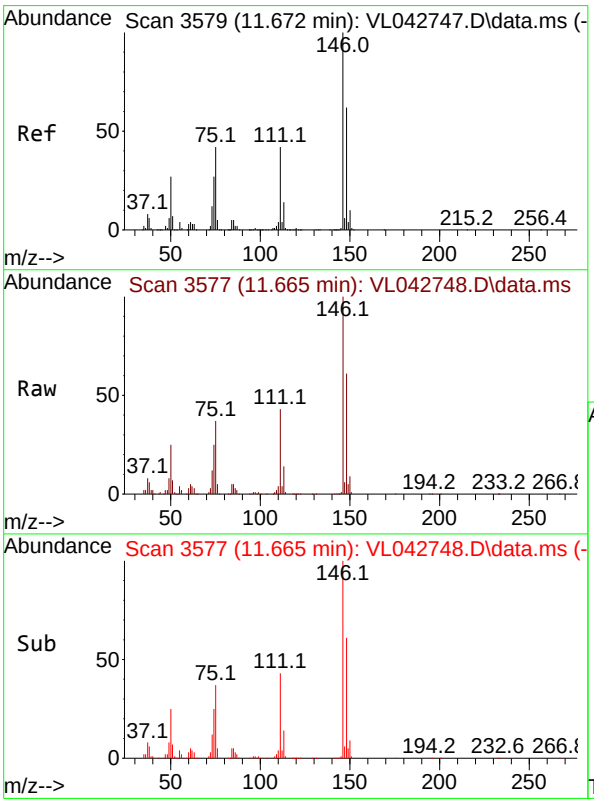
#75
1,3-Dichlorobenzene
Concen: 2.188 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 85254

Ion	Ratio	Lower	Upper
146	100		
111	45.0	22.7	68.0
148	65.2	31.9	95.5

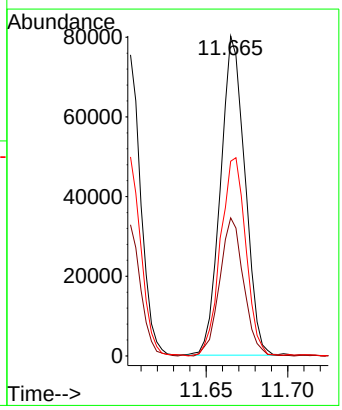


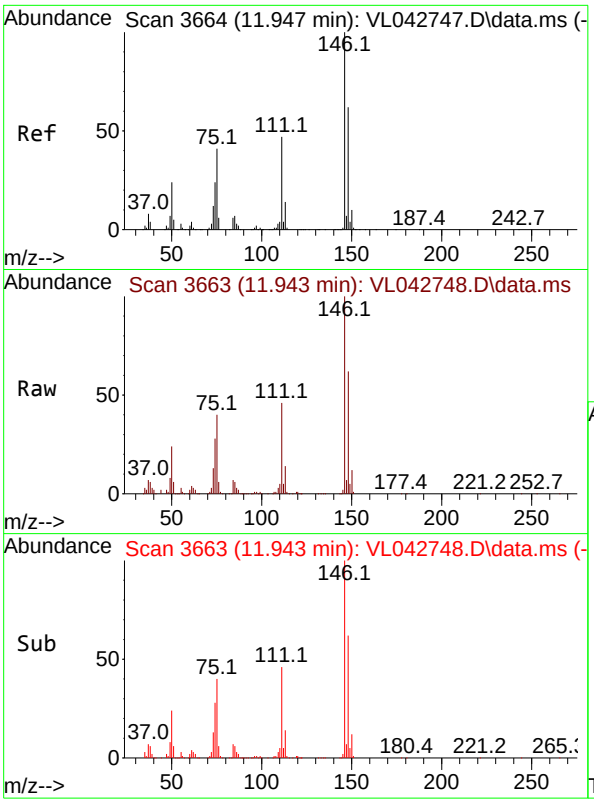


#76
1,4-Dichlorobenzene
Concen: 2.189 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:146 Resp: 83440

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.4	64.2
148	64.9	32.1	96.3



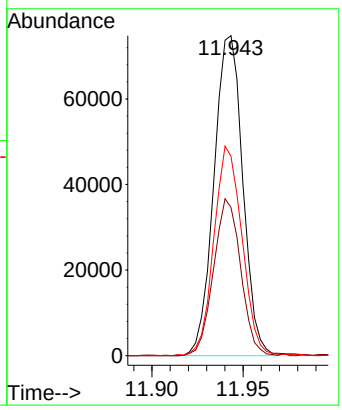


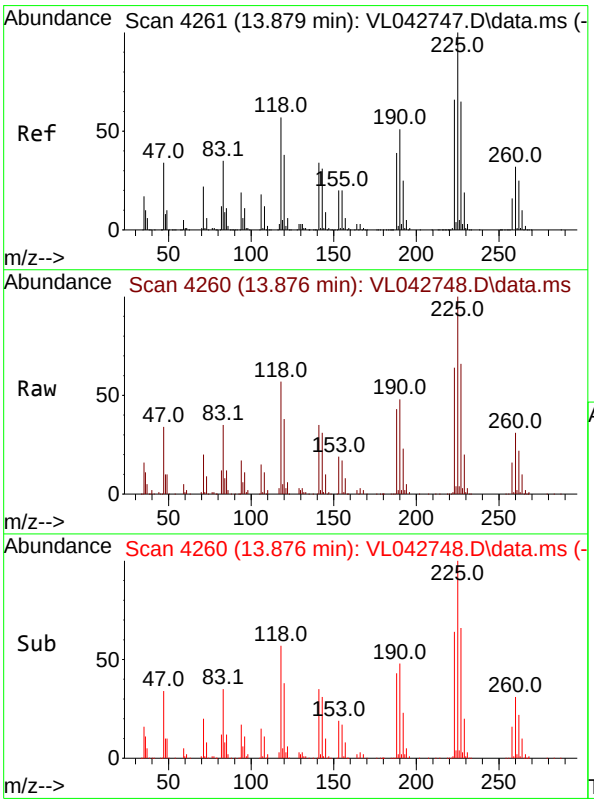
#77
1,2-Dichlorobenzene
Concen: 2.150 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 82311

Ion	Ratio	Lower	Upper
146	100		
111	46.6	23.7	71.1
148	64.3	32.6	97.7

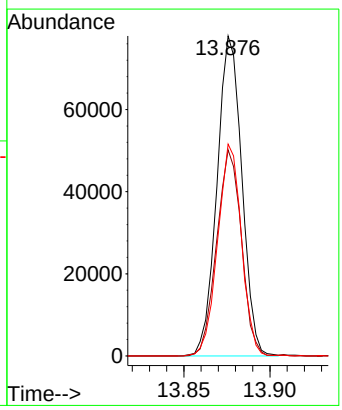


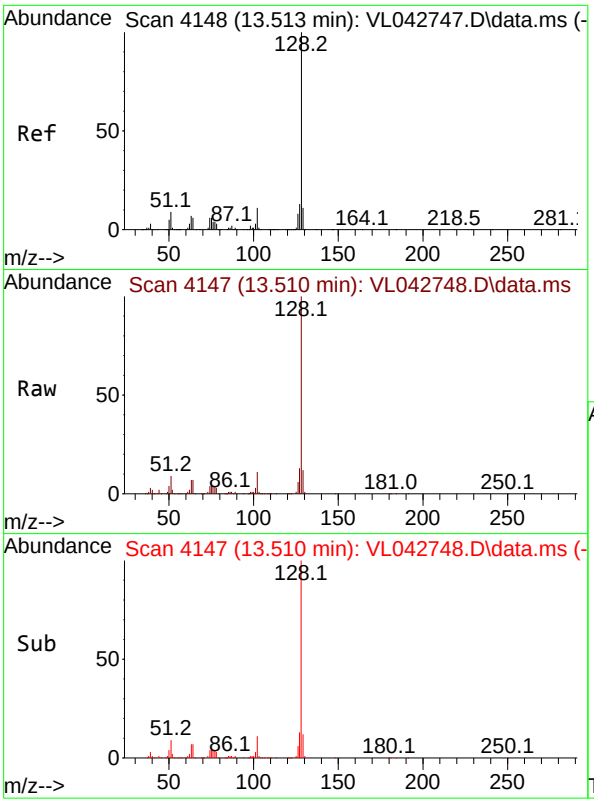


#78
Hexachloro-1,3-Butadiene
Concen: 2.259 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:225 Resp: 78291

Ion	Ratio	Lower	Upper
225	100		
223	64.2	50.7	76.1
227	63.3	50.5	75.7



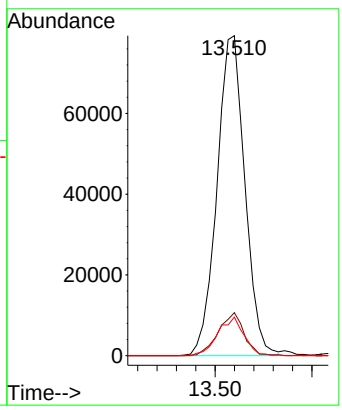


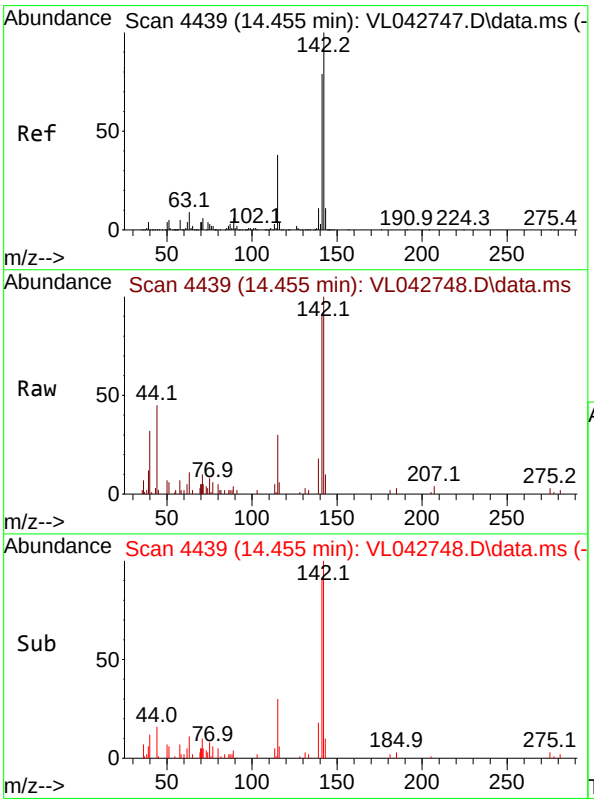
#79
Naphthalene
Concen: 1.690 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:128 Resp: 79191

Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.5	15.7
129	12.1	8.6	13.0

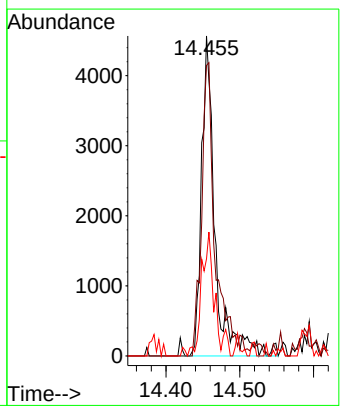


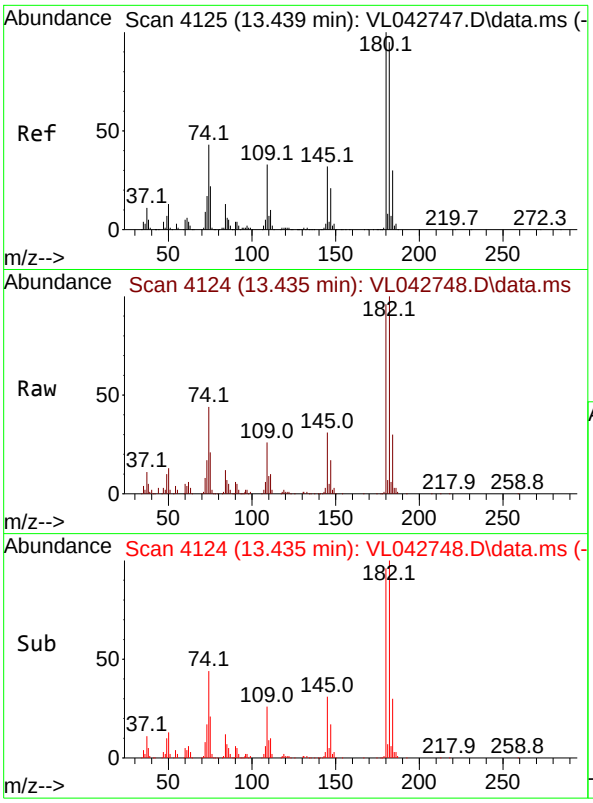


#80
Naphthalene,2-methyl-
Concen: 1.298 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:142 Resp: 5851

Ion	Ratio	Lower	Upper
142	100		
141	94.9	65.8	98.8
115	40.3	31.2	46.8



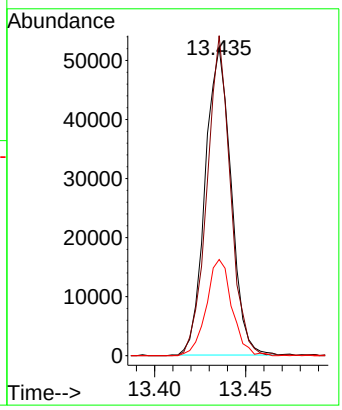


#81
1,2,4-Trichlorobenzene
Concen: 1.888 ppbv
RT: 13.435 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:180 Resp: 51515

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.2	114.2
184	30.9	24.8	37.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042749.D
Acq On : 23 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Jul 24 04:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	156293	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	459770	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	410018	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	327673	10.091	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	20935	1.013	ppbv	93
3) Chlorodifluoromethane	1.473	51	27459	1.020	ppbv	99
4) Chloromethane	1.531	50	9047	1.082	ppbv	96
5) Vinyl Chloride	1.580	62	7432	0.900	ppbv	96
6) Bromomethane	1.667	94	3743	1.172	ppbv #	71
7) Chloroethane	1.703	64	3061	0.959	ppbv	99
8) Dichlorotetrafluoroethane	1.551	85	17668	1.040	ppbv	98
9) Propene	1.483	41	10346	1.057	ppbv	95
10) Heptane	4.975	43	12823	0.487	ppbv #	29
11) Trichlorofluoromethane	1.874	101	22428	1.053	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	16608	1.026	ppbv	97
13) Ethanol	1.719	45	1698	1.331	ppbv	88
14) Bromoethene	1.780	108	5928	1.034	ppbv #	92
15) Acetone	1.832	43	23119	1.071	ppbv	94
16) 1,3-Butadiene	1.606	39	9416	1.023	ppbv	98
17) tert-Butyl alcohol	2.039	59	19926	1.024	ppbv #	93
18) 1,1-Dichloroethene	2.030	96	8276	1.132	ppbv	95
19) Isopropyl Alcohol	1.884	45	11942	1.041	ppbv #	42
20) Methylene Chloride	2.059	84	7153	1.052	ppbv	90
21) Allyl Chloride	2.091	41	13382	1.006	ppbv	92
22) trans-1,2-Dichloroethene	2.337	96	7909	1.007	ppbv	89
23) Vinyl Acetate	2.457	43	23472	0.897	ppbv #	91
24) 1,1-Dichloroethane	2.405	63	17459	1.081	ppbv	99
25) Ethyl Acetate	2.829	43	48790	1.021	ppbv	97
26) Hexane	2.823	57	22279	1.063	ppbv	98
27) Carbon Disulfide	2.146	76	18488	1.031	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	9587	0.968	ppbv	90
29) Chloroform	2.845	83	32880	1.015	ppbv	95
30) Cyclohexane	3.852	84	17824	1.003	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	21979	1.021	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	32003	0.949	ppbv	97
34) 2-Butanone	2.554	43	32783	1.007	ppbv	98
35) Carbon Tetrachloride	3.758	117	32610	0.954	ppbv	92
36) Benzene	3.651	78	44638	1.024	ppbv	98
37) 1,2-Dichloroethane	3.211	62	26909	1.025	ppbv #	96
38) Trichloroethene	4.538	130	21122	1.005	ppbv	93
39) 1,2-Dichloropropane	4.305	63	16622	1.033	ppbv	94
40) 1,4-Dioxane	4.587	88	4184	0.552	ppbv #	21
41) Tetrahydrofuran	3.056	42	16097	0.984	ppbv	97
42) Bromodichloromethane	4.486	83	13285	0.388	ppbv	99
43) Methyl Methacrylate	4.868	69	7135	0.461	ppbv #	1
44) 2,2,4-Trimethylpentane	4.629	57	72865	1.026	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	4937	0.284	ppbv	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042749.D
Acq On : 23 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Jul 24 04:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

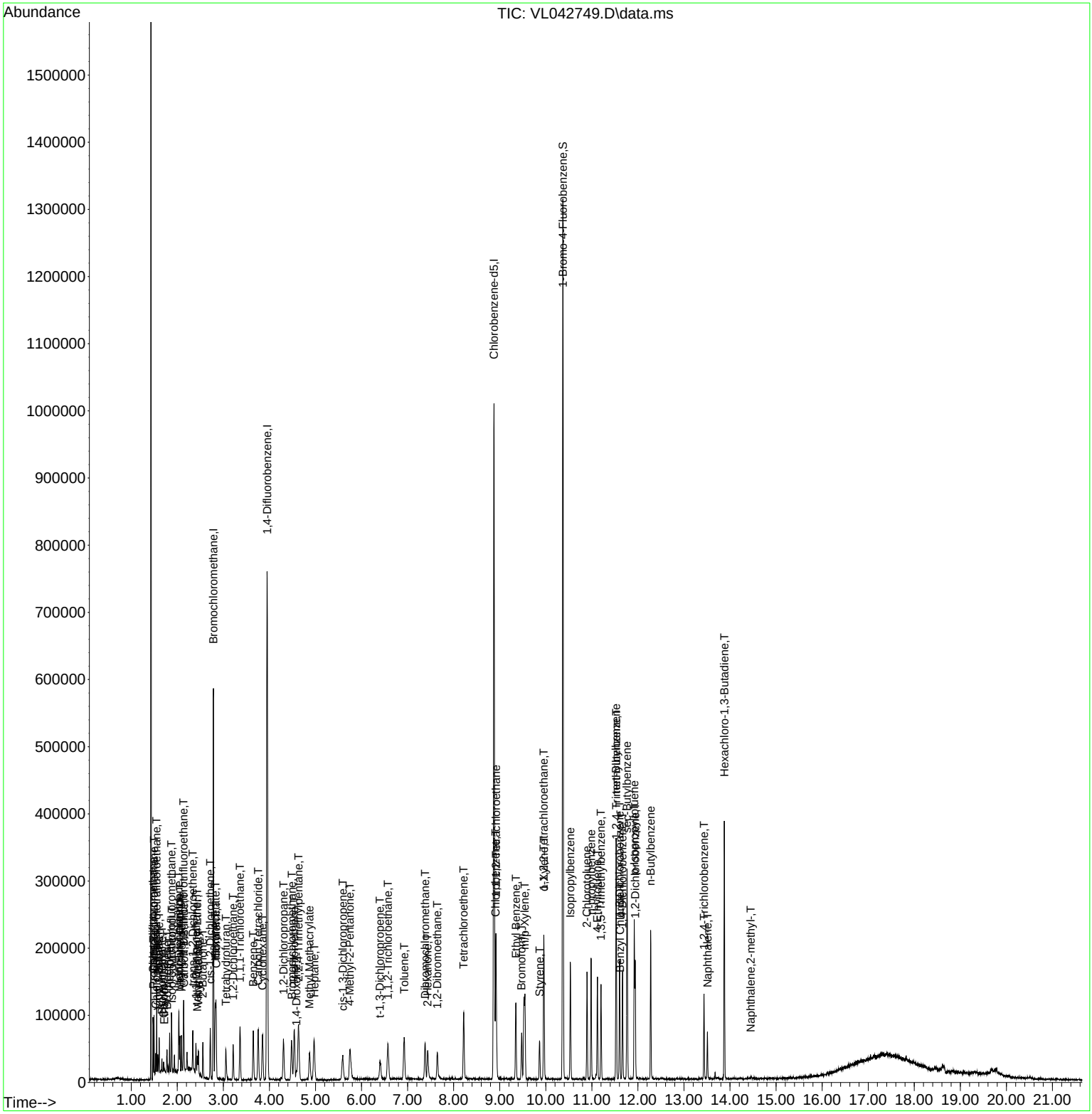
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	9670	0.439	ppbv	#	94
47) 1,1,2-Trichloroethane	6.574	97	17646	1.029	ppbv	#	82
48) Dibromochloromethane	7.380	129	26259	0.965	ppbv		99
49) Bromoform	9.474	173	23083	0.973	ppbv		100
50) 4-Methyl-2-Pentanone	5.745	43	20247	0.488	ppbv	#	40
51) 2-Hexanone	7.435	43	29761	0.939	ppbv	#	100
52) Tetrachloroethene	8.215	164	18131	1.001	ppbv		96
53) Toluene	6.927	91	45645	0.976	ppbv		98
54) 1,2-Dibromoethane	7.642	107	24427	1.007	ppbv		85
56) 1,1,1,2-Tetrachloroethane	8.920	131	21319	1.000	ppbv		94
57) Chlorobenzene	8.911	112	41788	1.053	ppbv	#	85
58) Ethyl Benzene	9.351	91	63467	0.980	ppbv		98
59) m/p-Xylene	9.545	91	43966	0.849	ppbv	#	3
60) o-Xylene	9.959	91	52499	1.015	ppbv		99
61) Styrene	9.865	104	20313	0.934	ppbv		97
62) Isopropylbenzene	10.532	105	77278	1.013	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.956	83	32591	0.967	ppbv		100
64) n-propylbenzene	10.985	120	20073	1.009	ppbv		95
65) tert-Butylbenzene	11.526	119	68428	1.010	ppbv		95
66) Benzyl Chloride	11.610	91	4700	0.845	ppbv		96
67) sec-Butylbenzene	11.762	105	101458	1.053	ppbv		99
69) p-Isopropyltoluene	11.921	119	78186	0.995	ppbv		98
70) n-Butylbenzene	12.277	91	74257	0.978	ppbv		98
71) 2-Chlorotoluene	10.895	91	59193	1.012	ppbv		100
72) 4-Ethyltoluene	11.121	105	61199	0.991	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	48901	0.962	ppbv		99
74) 1,2,4-Trimethylbenzene	11.532	105	55153	0.994	ppbv		97
75) 1,3-Dichlorobenzene	11.600	146	39753	1.022	ppbv		97
76) 1,4-Dichlorobenzene	11.665	146	38018	0.999	ppbv		98
77) 1,2-Dichlorobenzene	11.943	146	40835	1.068	ppbv		98
78) Hexachloro-1,3-Butadiene	13.876	225	37228	1.076	ppbv		98
79) Naphthalene	13.510	128	29792	0.907	ppbv		97
80) Naphthalene,2-methyl-	14.449	142	1950	1.184	ppbv	#	78
81) 1,2,4-Trichlorobenzene	13.435	180	21929	1.053	ppbv		98

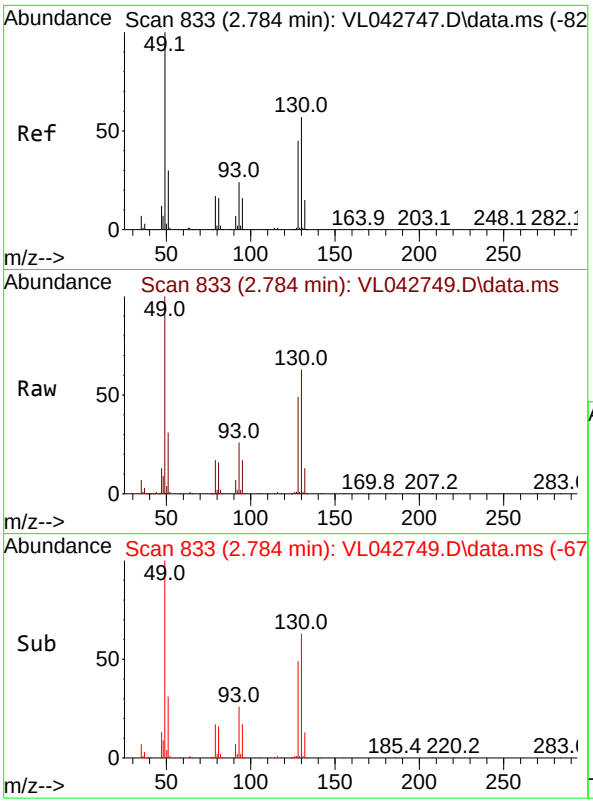
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042749.D
Acq On : 23 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Jul 24 04:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration



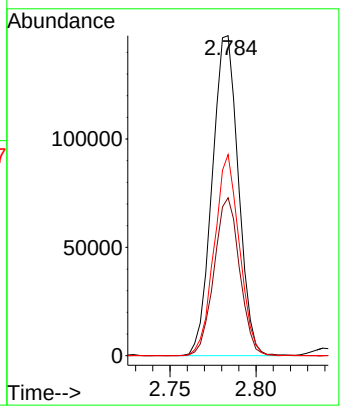


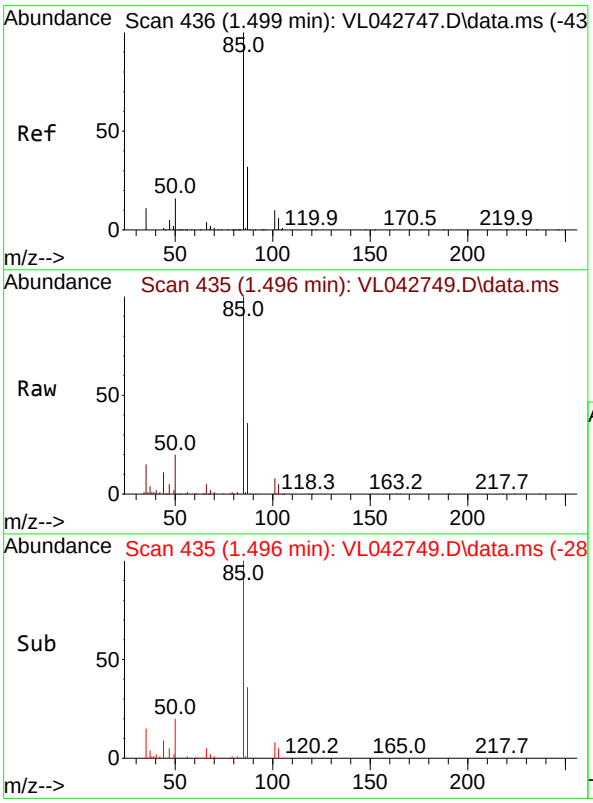
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 49 Resp: 156293

Ion	Ratio	Lower	Upper
49	100		
128	48.2	23.6	71.0
130	60.4	30.3	90.8

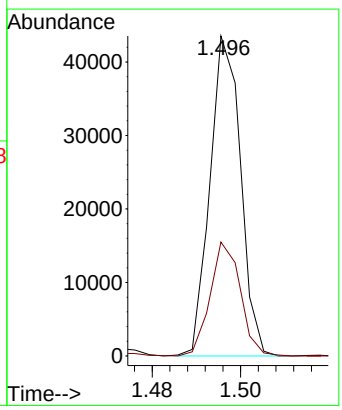


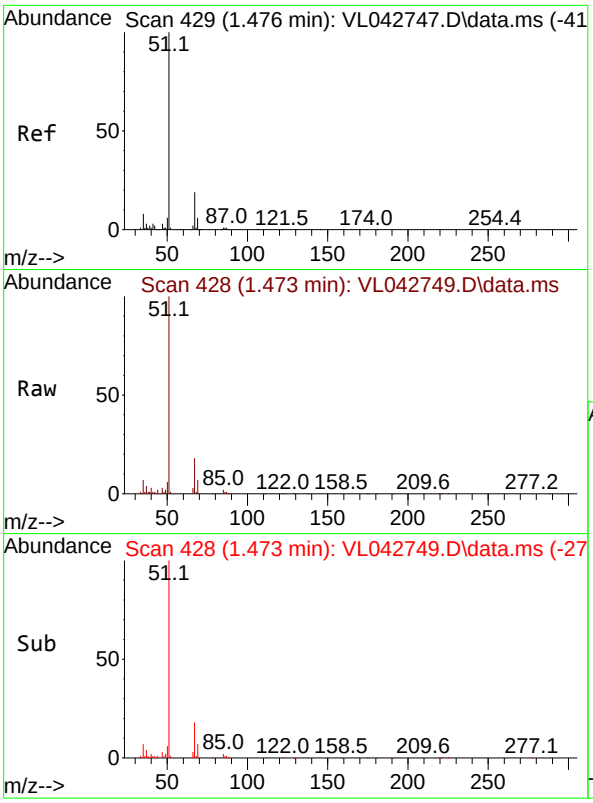


#2
Dichlorodifluoromethane
Concen: 1.013 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 85 Resp: 20935

Ion	Ratio	Lower	Upper
85	100		
87	35.6	25.4	38.2



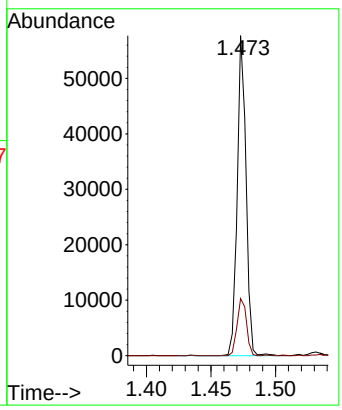


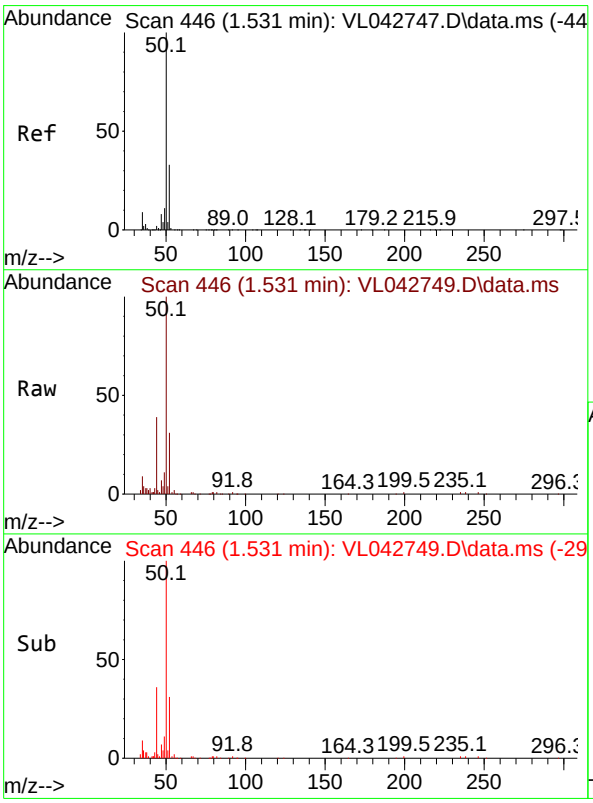
#3
Chlorodifluoromethane
Concen: 1.020 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 27459

Ion	Ratio	Lower	Upper
51	100		
67	19.3	15.0	22.6

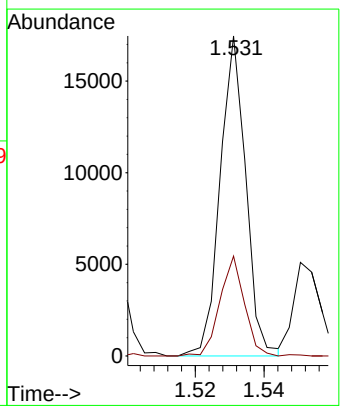


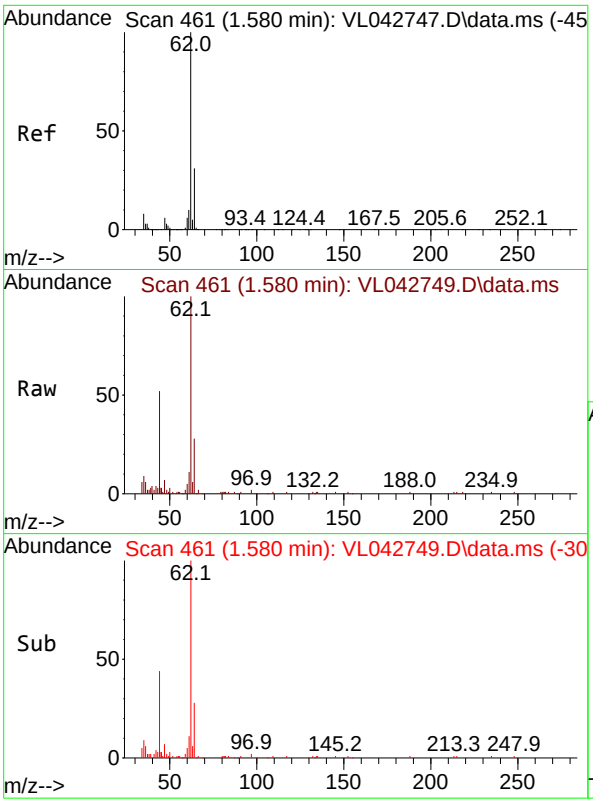


#4
Chloromethane
Concen: 1.082 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 50 Resp: 9047

Ion	Ratio	Lower	Upper
50	100		
52	31.2	26.6	40.0



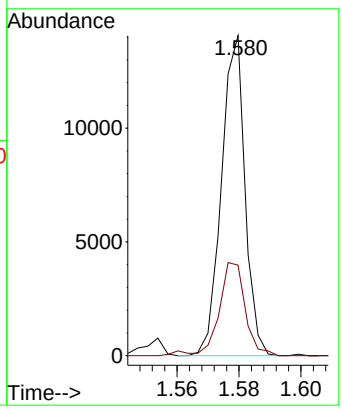


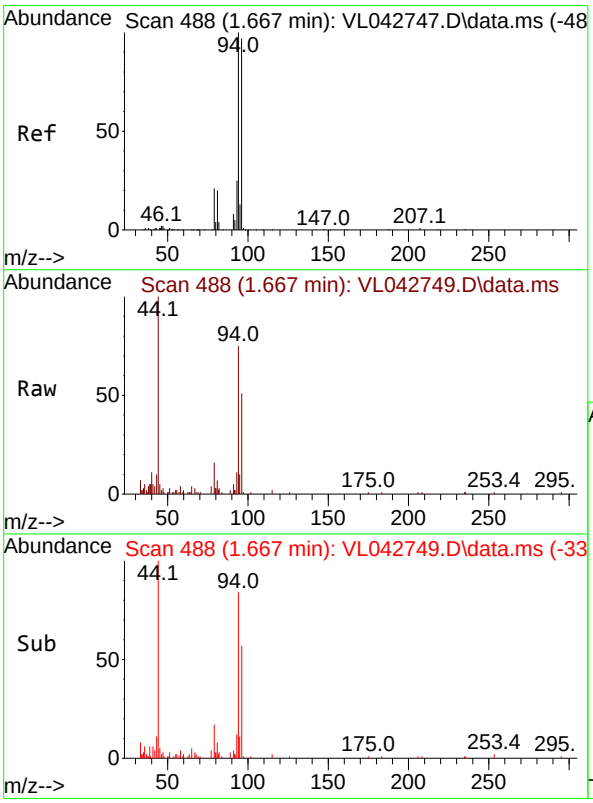
#5
Vinyl Chloride
Concen: 0.900 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 7432

Ion	Ratio	Lower	Upper
62	100		
64	28.3	24.5	36.7

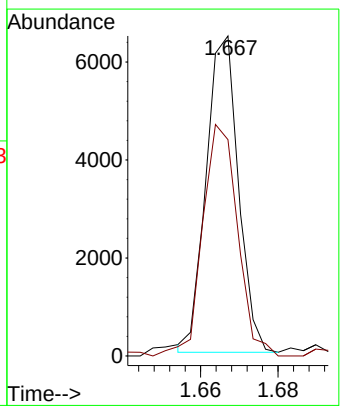


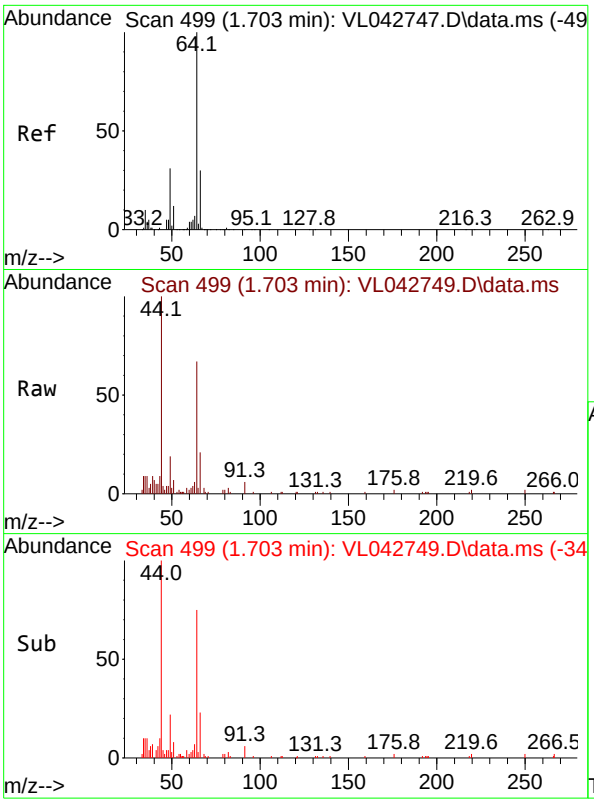


#6
Bromomethane
Concen: 1.172 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 94 Resp: 3743

Ion	Ratio	Lower	Upper
94	100		
96	68.4	77.6	116.4#



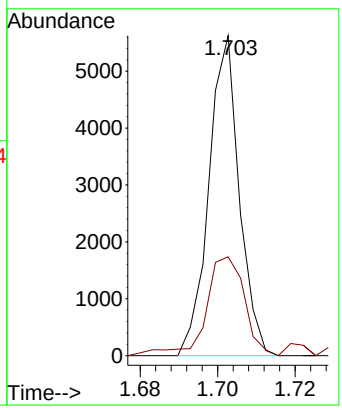


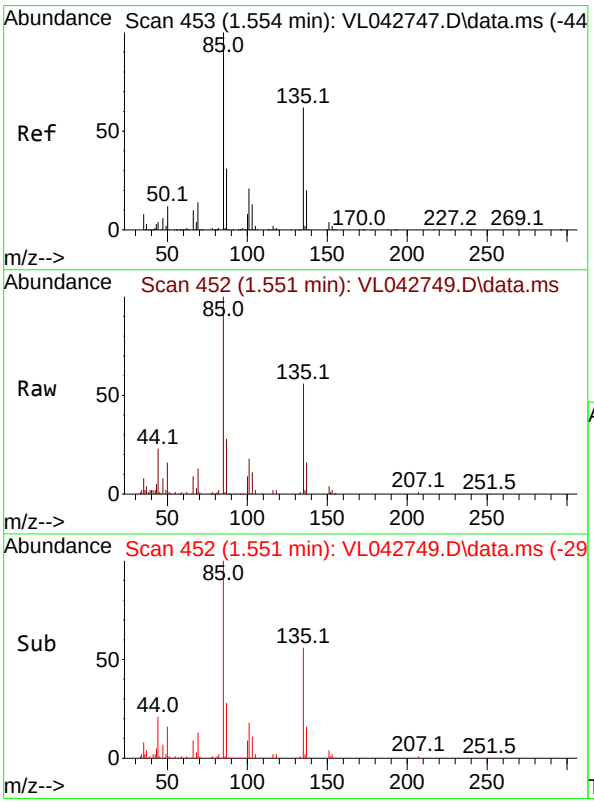
#7
Chloroethane
Concen: 0.959 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 3061

Ion	Ratio	Lower	Upper
64	100		
66	30.9	24.1	36.1

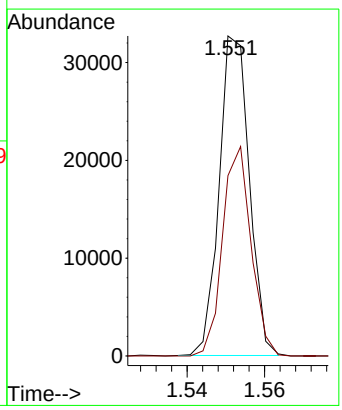


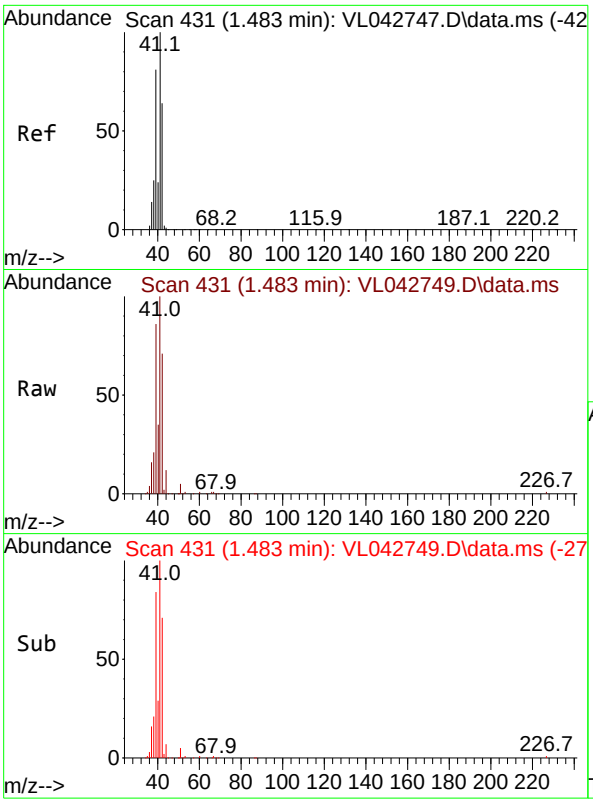


#8
Dichlorotetrafluoroethane
Concen: 1.040 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 85 Resp: 17668

Ion	Ratio	Lower	Upper
85	100		
135	62.1	50.6	76.0



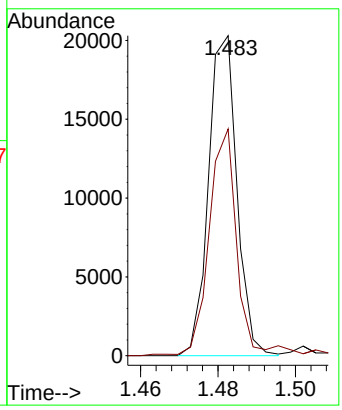


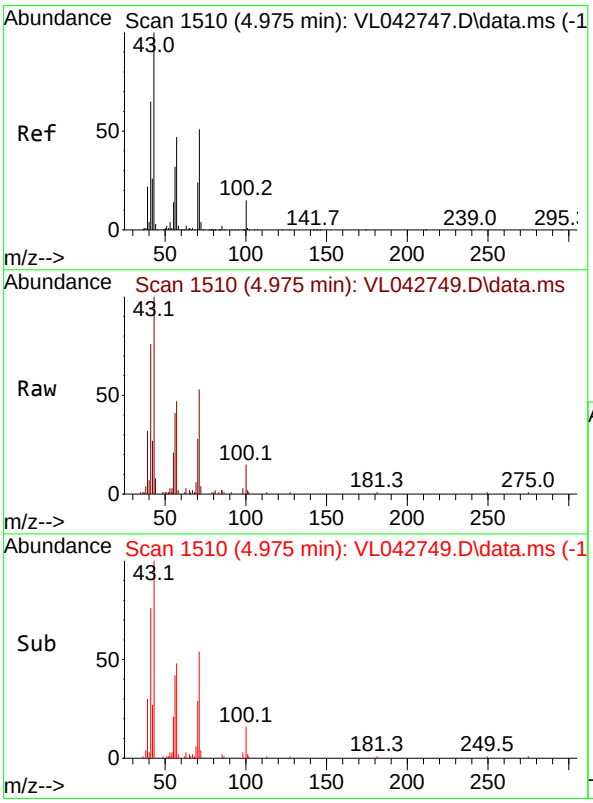
#9
Propene
Concen: 1.057 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 10346

Ion	Ratio	Lower	Upper
41	100		
42	70.5	53.2	79.8

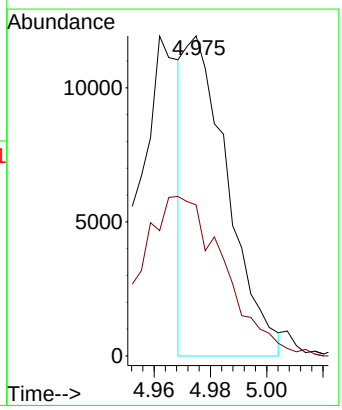


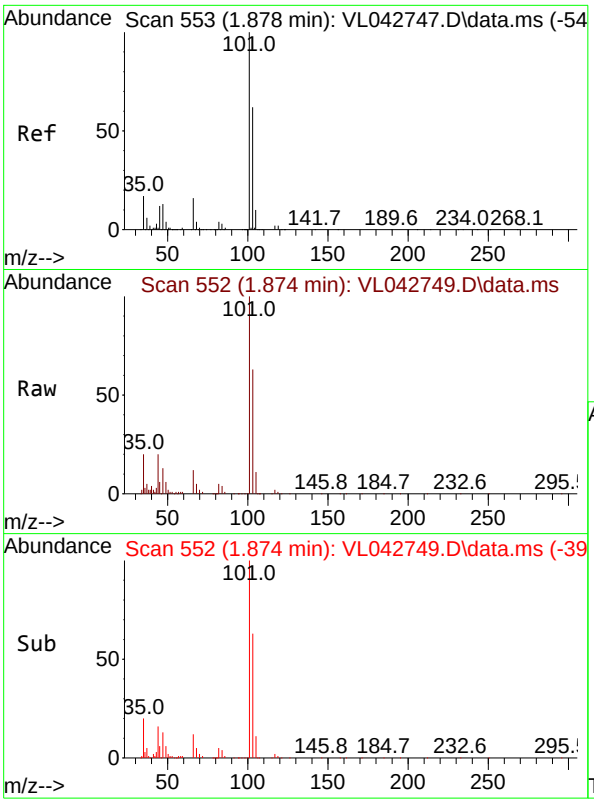


#10
Heptane
Concen: 0.487 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 43 Resp: 12823

Ion	Ratio	Lower	Upper
43	100		
57	98.9	39.9	59.9#



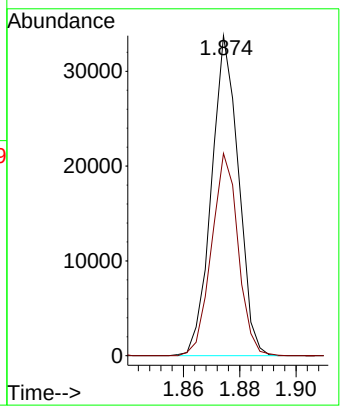


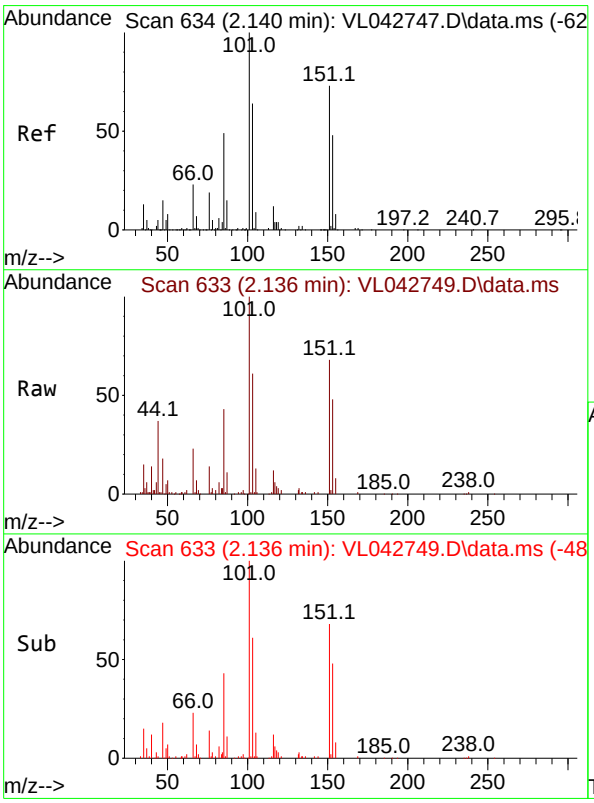
#11
Trichlorofluoromethane
Concen: 1.053 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 22428

Ion	Ratio	Lower	Upper
101	100		
103	63.2	49.6	74.4

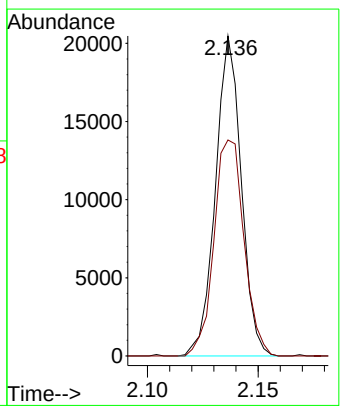


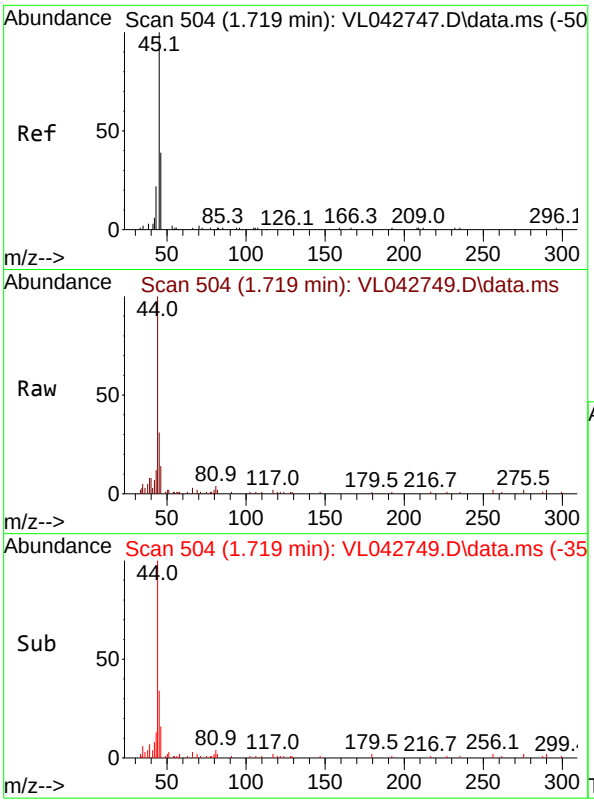


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.026 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:101 Resp: 16608

Ion	Ratio	Lower	Upper
101	100		
151	78.6	60.5	90.7



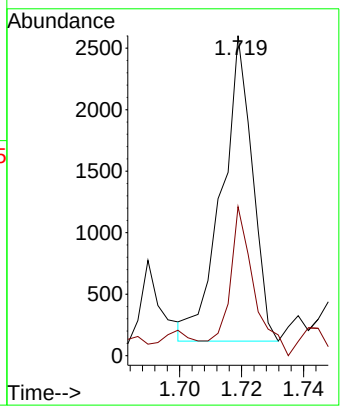


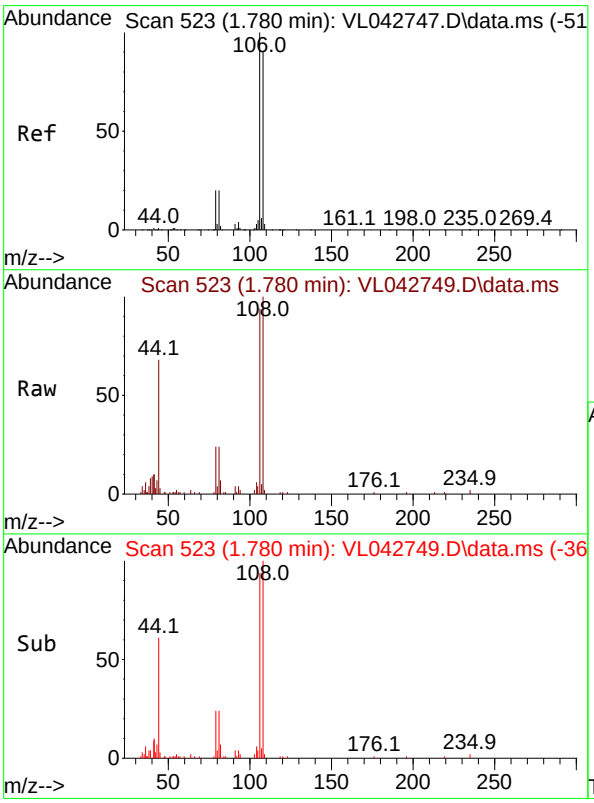
#13
Ethanol
Concen: 1.331 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 1698

Ion	Ratio	Lower	Upper
45	100		
46	36.6	17.8	71.4

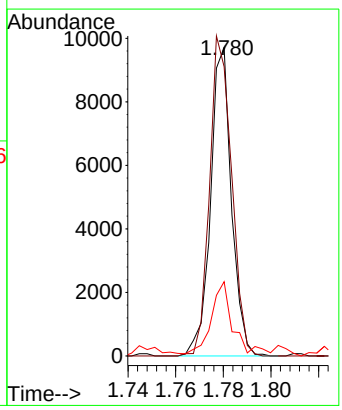


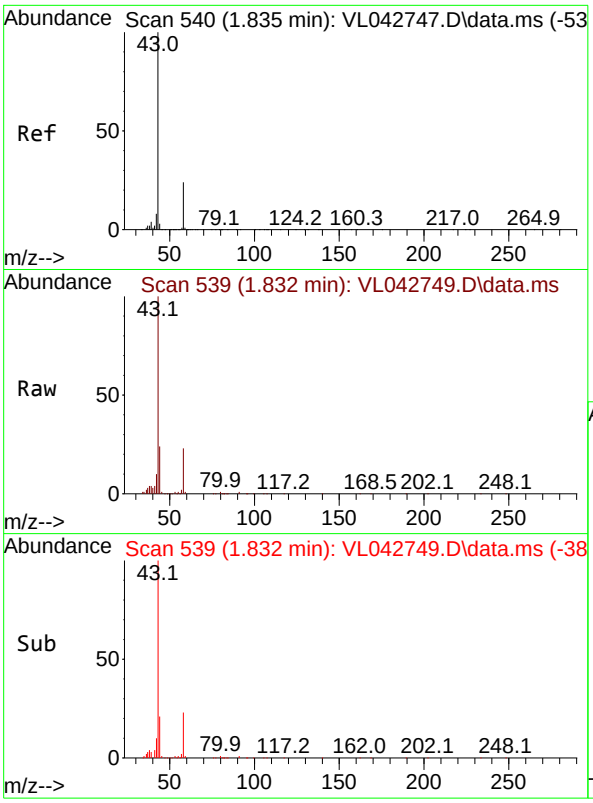


#14
Bromoethene
Concen: 1.034 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:108 Resp: 5928

Ion	Ratio	Lower	Upper
108	100		
106	108.7	84.7	127.1
79	38.6	17.4	26.2#



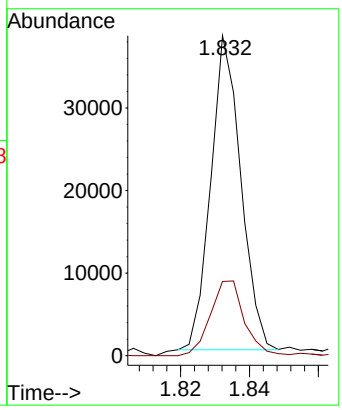


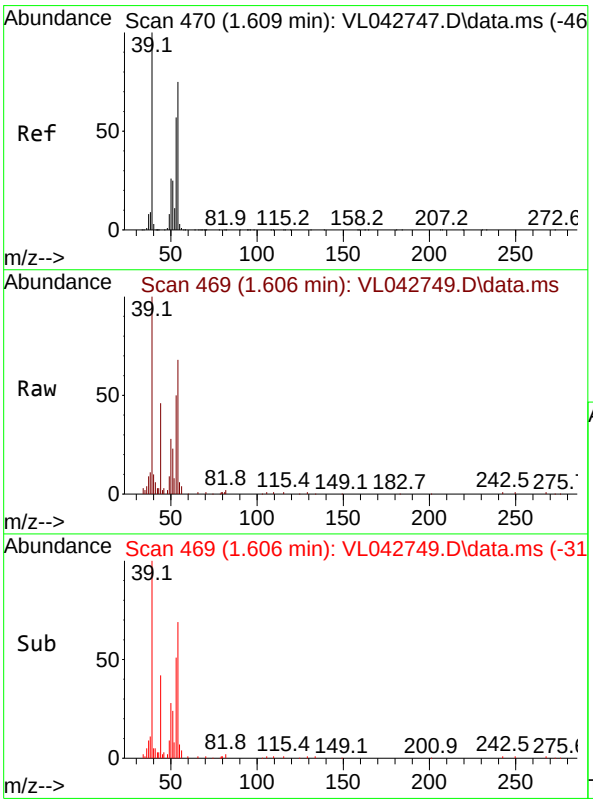
#15
Acetone
Concen: 1.071 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 23119

Ion	Ratio	Lower	Upper
43	100		
58	27.7	19.8	29.8

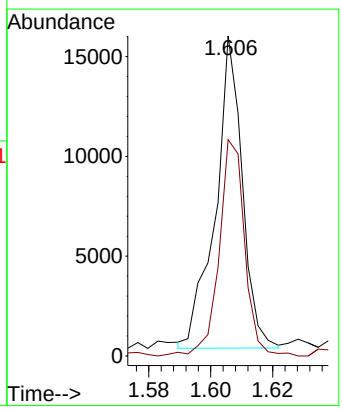


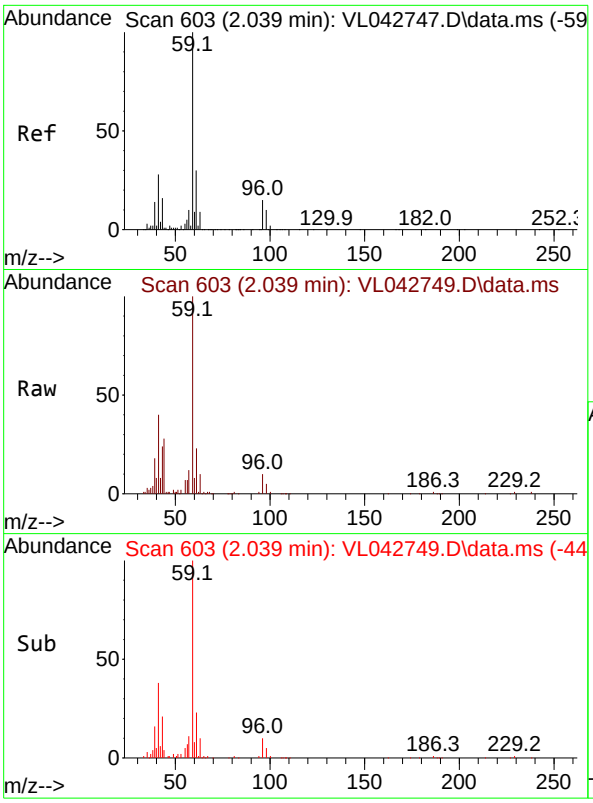


#16
1,3-Butadiene
Concen: 1.023 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 39 Resp: 9416

Ion	Ratio	Lower	Upper
39	100		
54	69.7	54.5	81.7



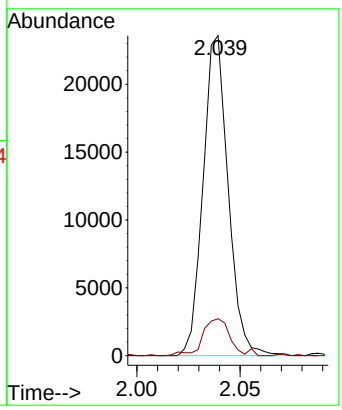


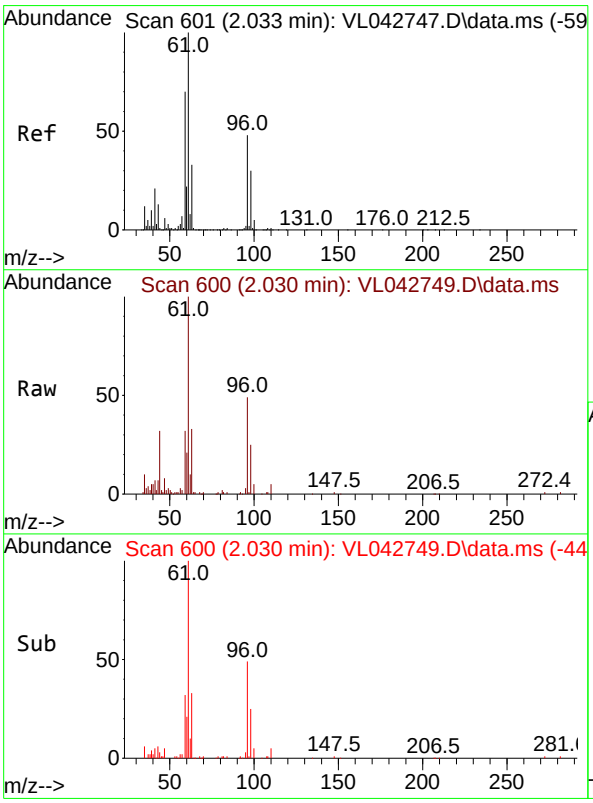
#17
tert-Butyl alcohol
Concen: 1.024 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 19926

Ion	Ratio	Lower	Upper
59	100		
57	12.9	8.3	12.5#

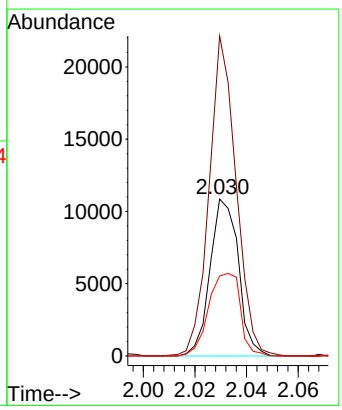


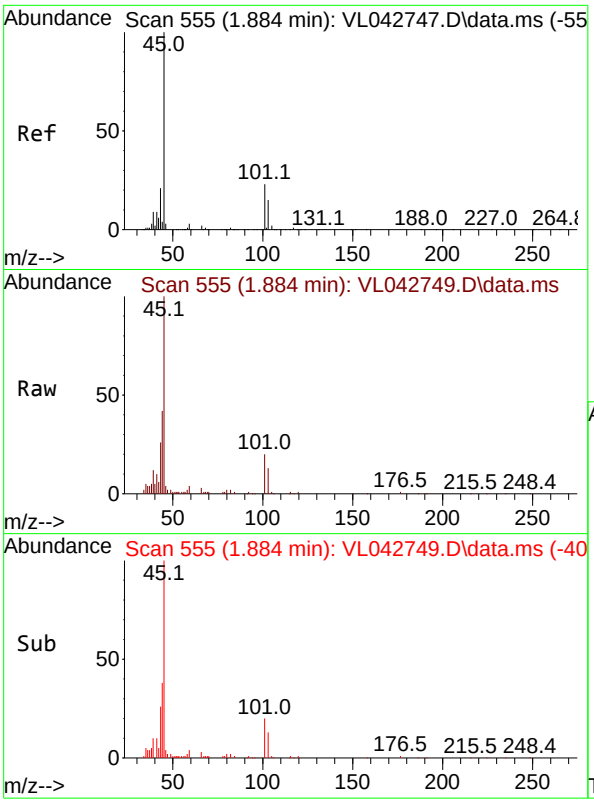


#18
1,1-Dichloroethene
Concen: 1.132 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 96 Resp: 8276

Ion	Ratio	Lower	Upper
96	100		
61	203.0	165.8	248.6
98	51.0	49.9	74.9



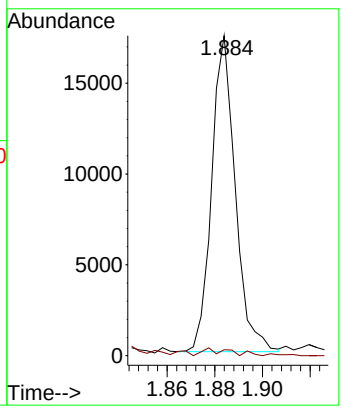


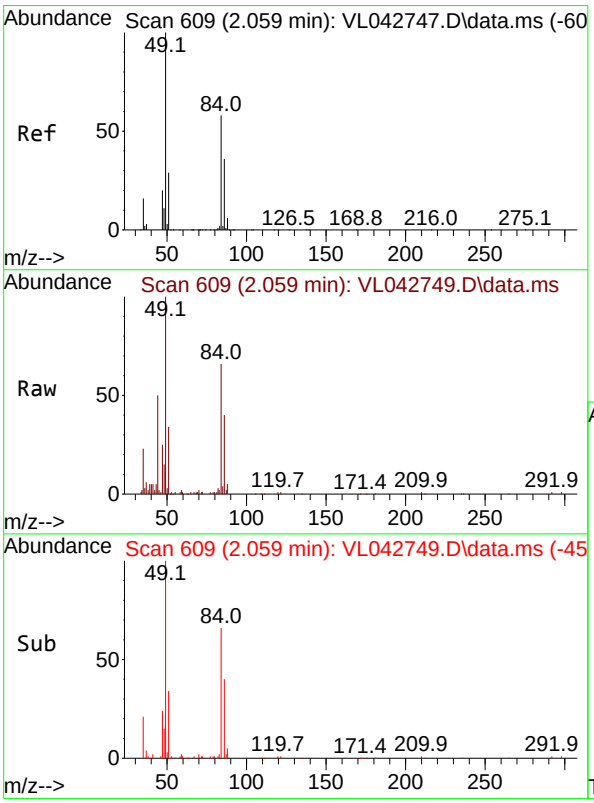
#19
Isopropyl Alcohol
Concen: 1.041 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 11942

Ion	Ratio	Lower	Upper
45	100		
58	2.8	30.0	45.0#

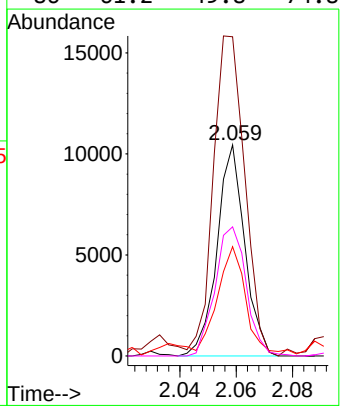


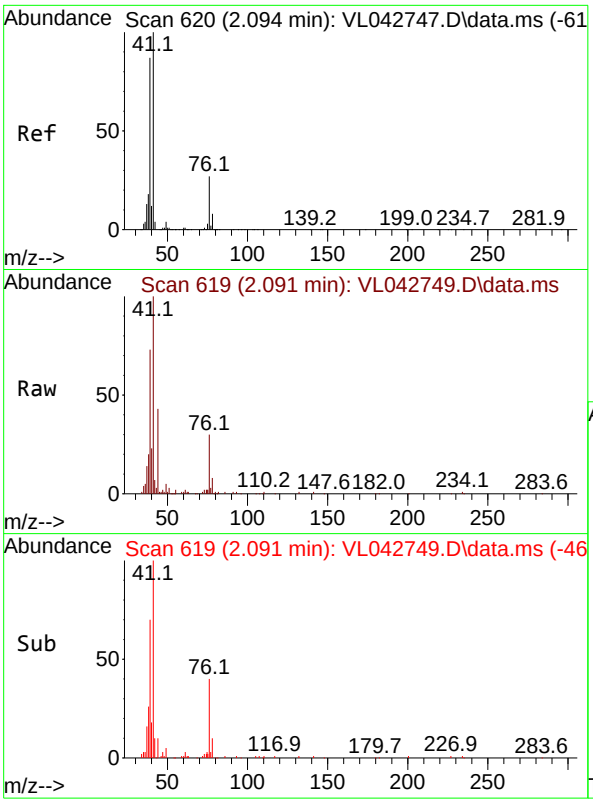


#20
Methylene Chloride
Concen: 1.052 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 84 Resp: 7153

Ion	Ratio	Lower	Upper
84	100		
49	151.3	138.6	208.0
51	50.2	40.6	61.0
86	61.2	49.8	74.8



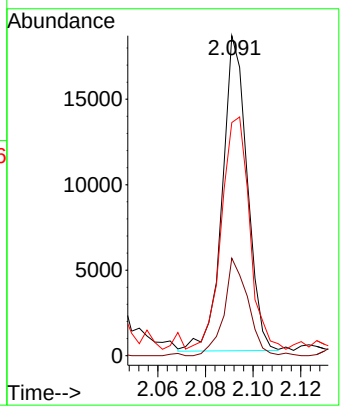


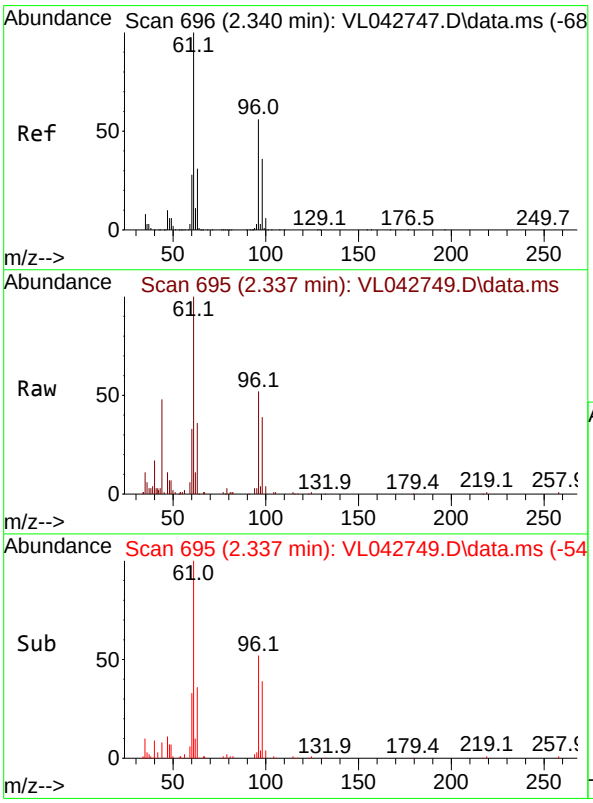
#21
Allyl Chloride
Concen: 1.006 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 13382

Ion	Ratio	Lower	Upper
41	100		
76	30.1	21.1	31.7
39	93.4	68.3	102.5

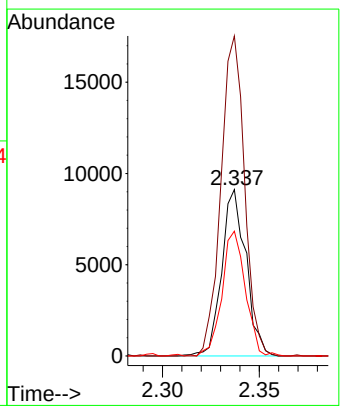


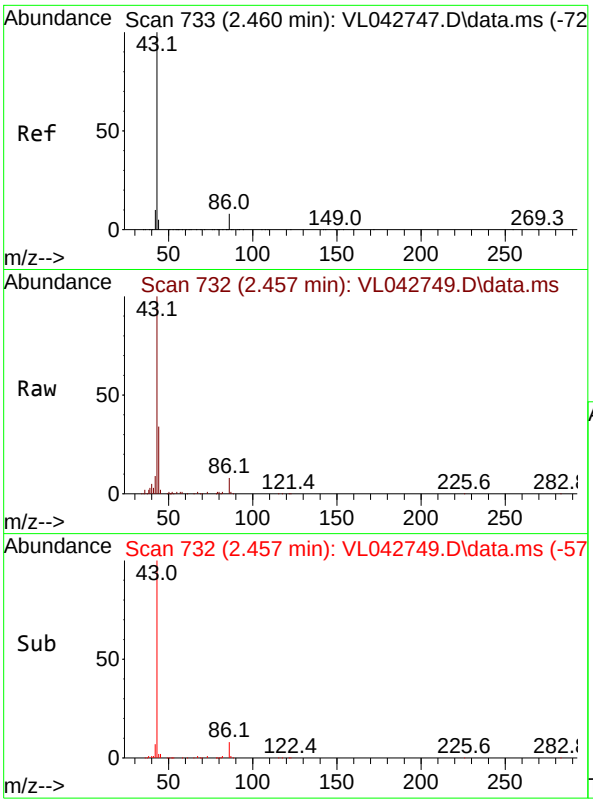


#22
trans-1,2-Dichloroethene
Concen: 1.007 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 96 Resp: 7909

Ion	Ratio	Lower	Upper
96	100		
61	192.3	142.3	213.5
98	74.2	50.6	76.0



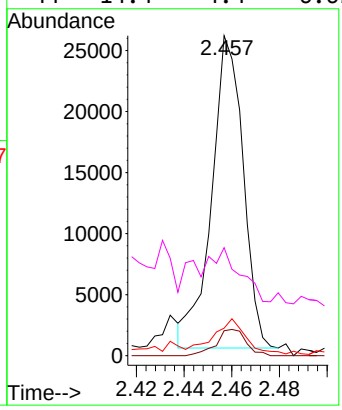


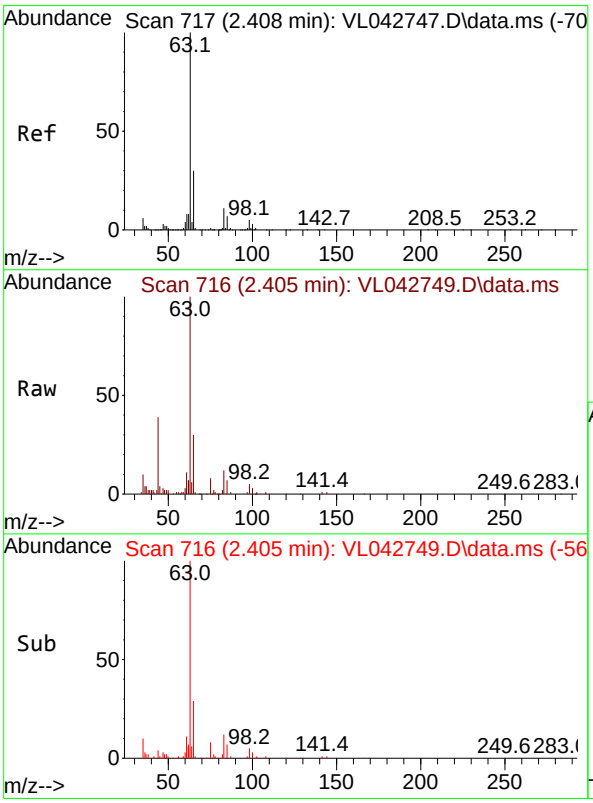
#23
Vinyl Acetate
Concen: 0.897 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 23472

Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.1	9.1
42	7.5	7.8	11.8#
44	14.4	4.4	6.6#

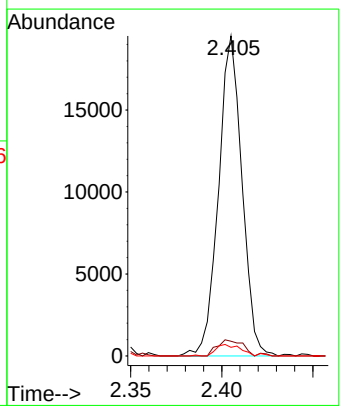


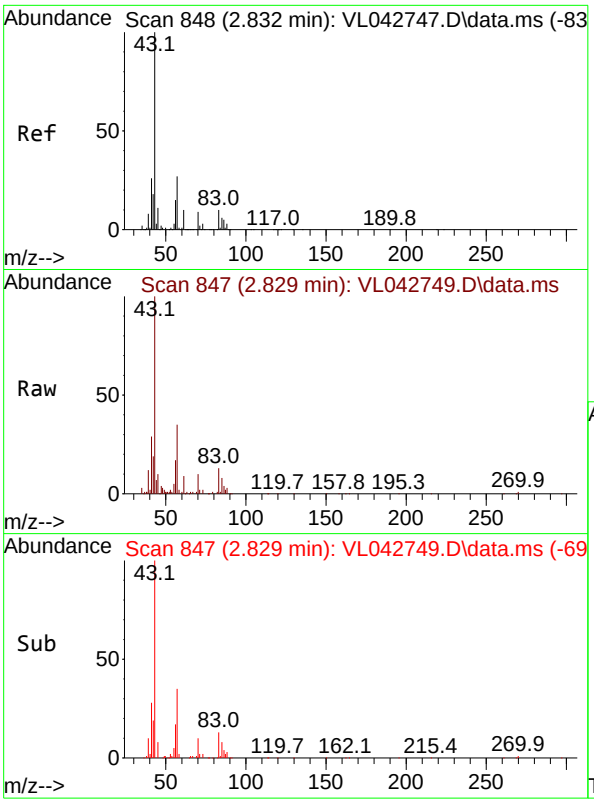


#24
1,1-Dichloroethane
Concen: 1.081 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 63 Resp: 17459

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.5	7.4
100	2.7	1.6	4.8



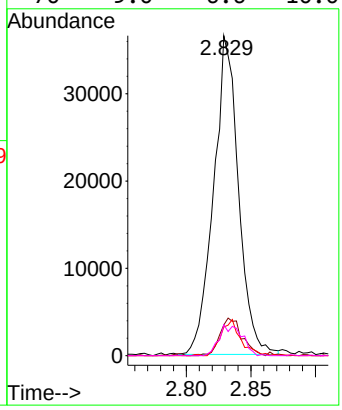


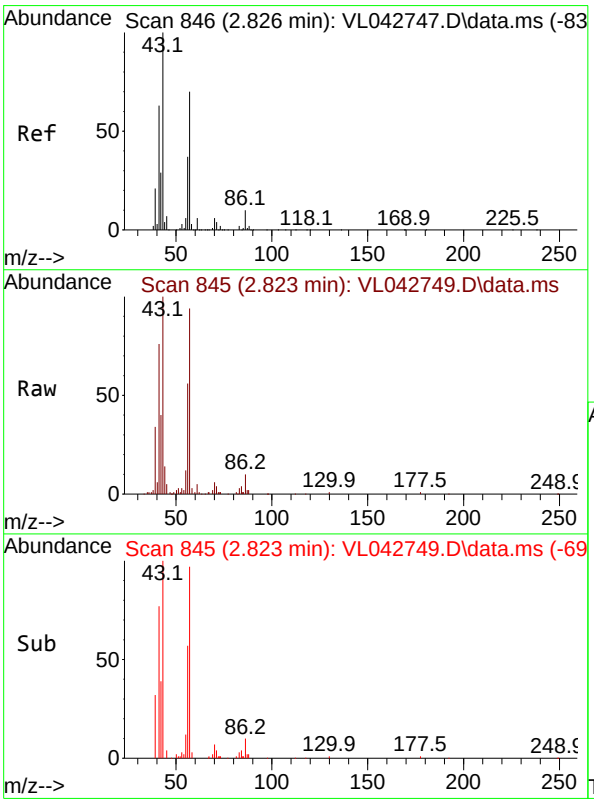
#25
Ethyl Acetate
Concen: 1.021 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 48790

Ion	Ratio	Lower	Upper
43	100		
45	11.3	7.8	11.6
61	9.3	6.7	10.1
70	9.0	6.6	10.0

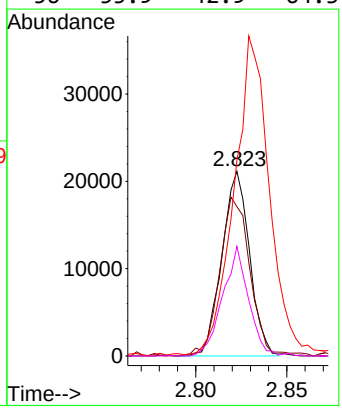


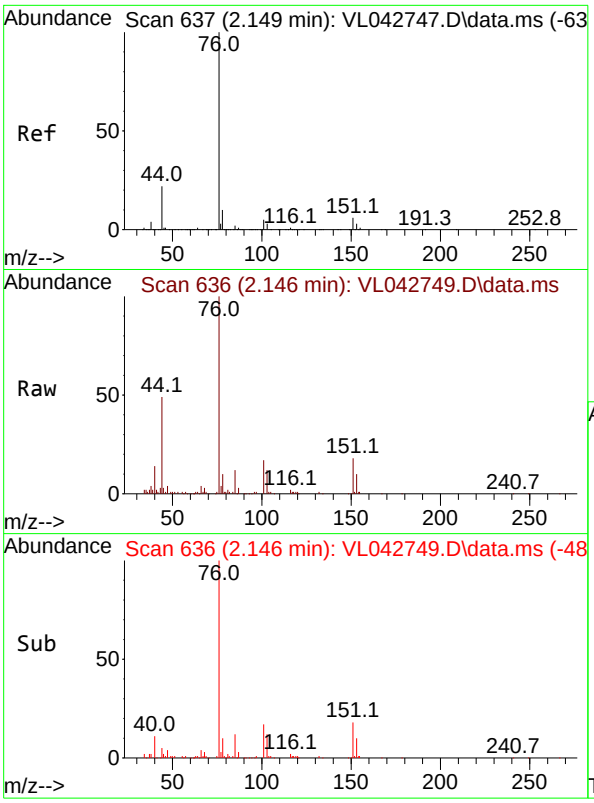


#26
Hexane
Concen: 1.063 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 57 Resp: 22279

Ion	Ratio	Lower	Upper
57	100		
41	98.5	75.4	113.2
43	230.7	185.0	277.6
56	55.9	42.9	64.3



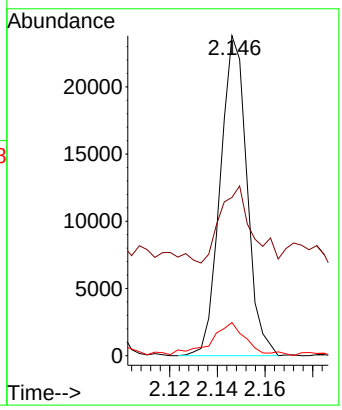


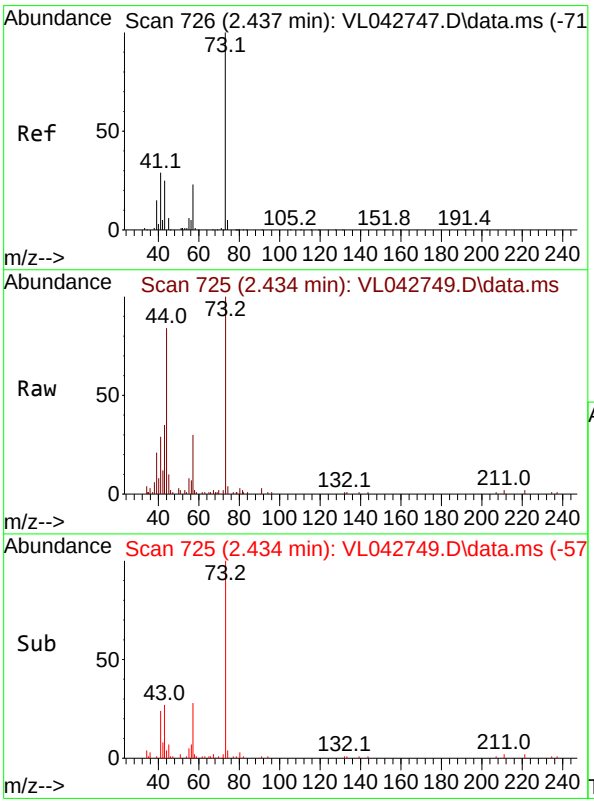
#27
Carbon Disulfide
Concen: 1.031 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 18488

Ion	Ratio	Lower	Upper
76	100		
44	115.6	19.3	28.9#
78	14.9	9.9	14.9#

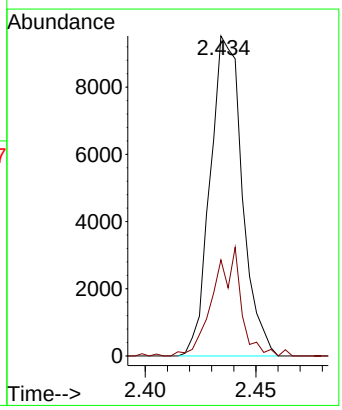


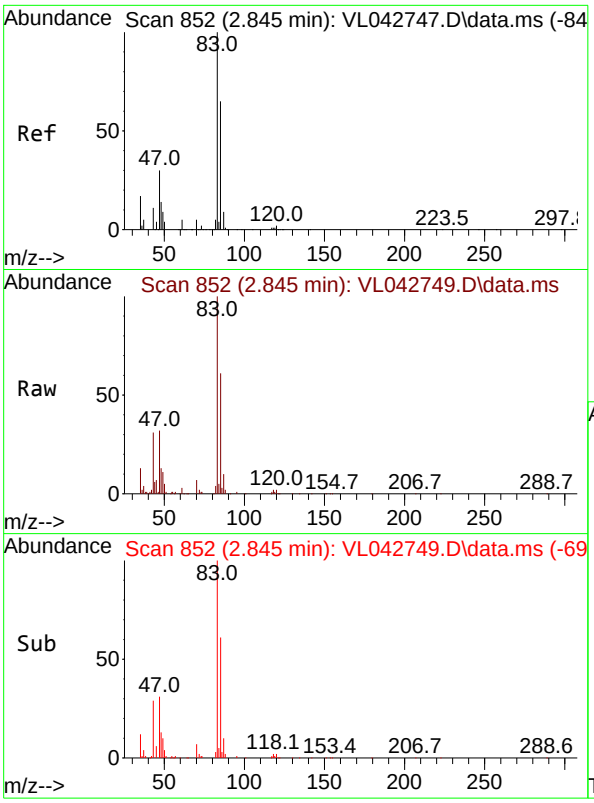


#28
Methyl tert-Butyl Ether
Concen: 0.968 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 73 Resp: 9587

Ion	Ratio	Lower	Upper
73	100		
57	29.7	19.8	29.8



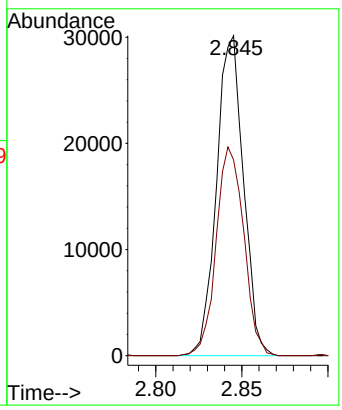


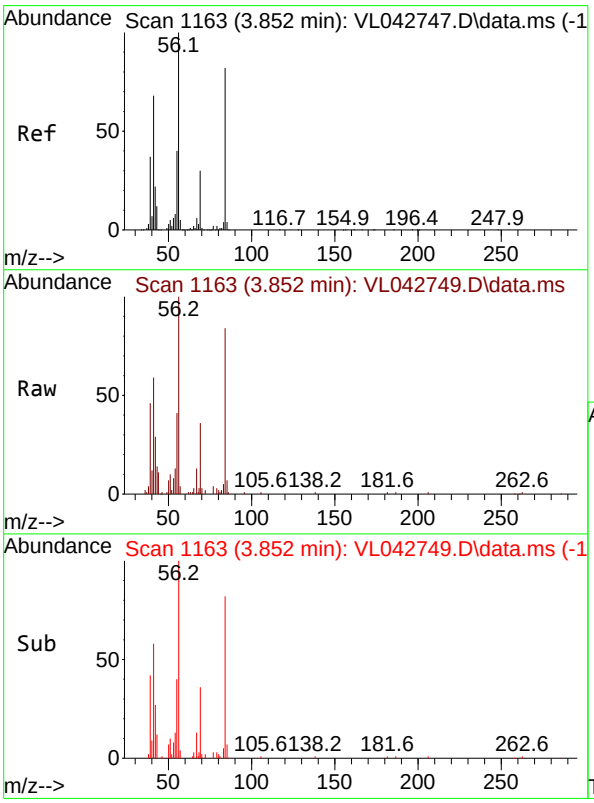
#29
Chloroform
Concen: 1.015 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 32880

Ion	Ratio	Lower	Upper
83	100		
85	61.2	52.2	78.2

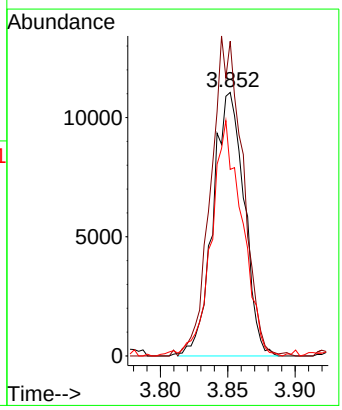


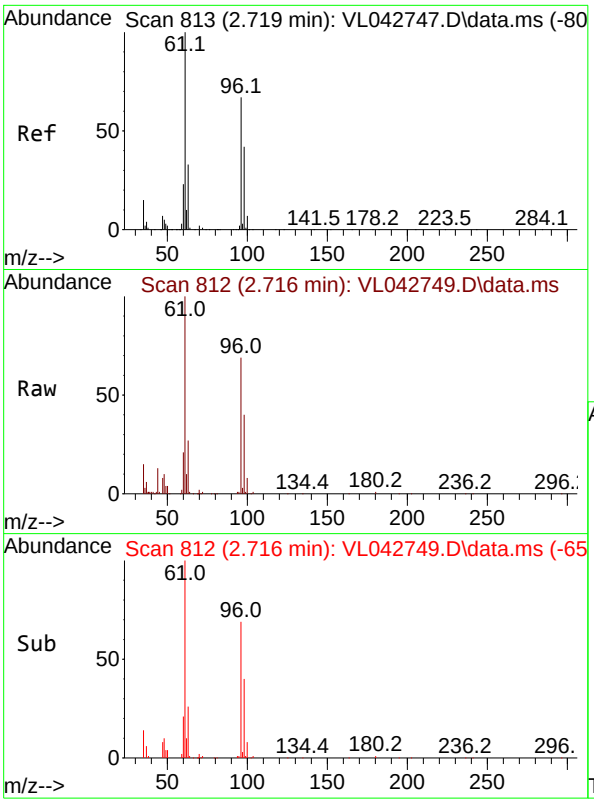


#30
Cyclohexane
Concen: 1.003 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 84 Resp: 17824

Ion	Ratio	Lower	Upper
84	100		
56	124.3	97.5	146.3
41	88.5	67.2	100.8



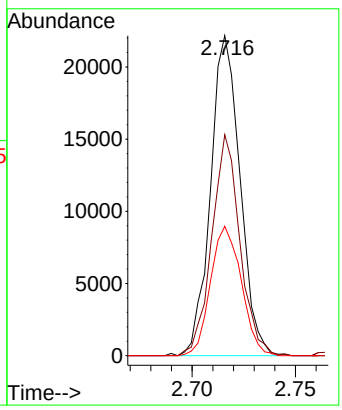


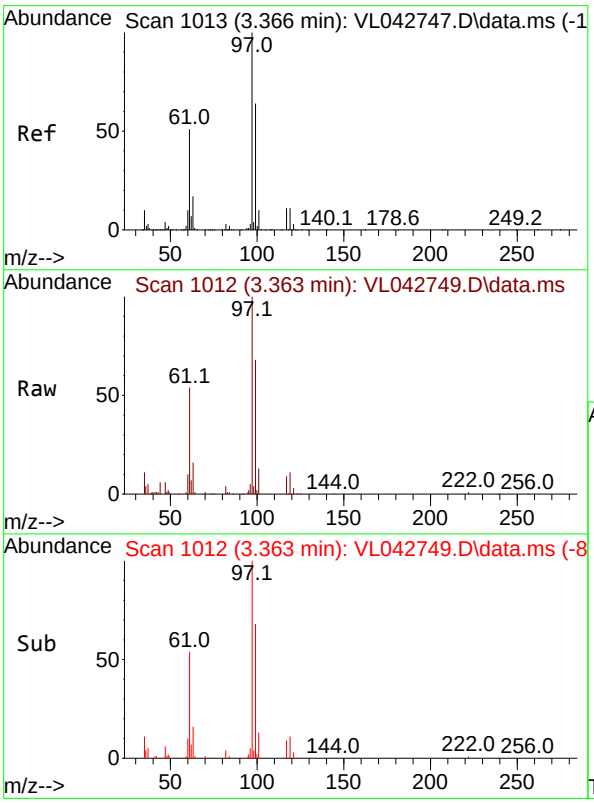
#31
cis-1,2-Dichloroethene
Concen: 1.021 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 61 Resp: 21979

Ion	Ratio	Lower	Upper
61	100		
96	69.0	53.5	80.3
98	40.5	33.6	50.4

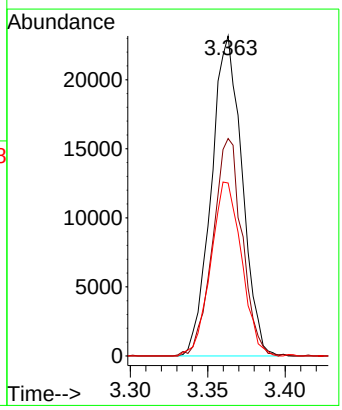


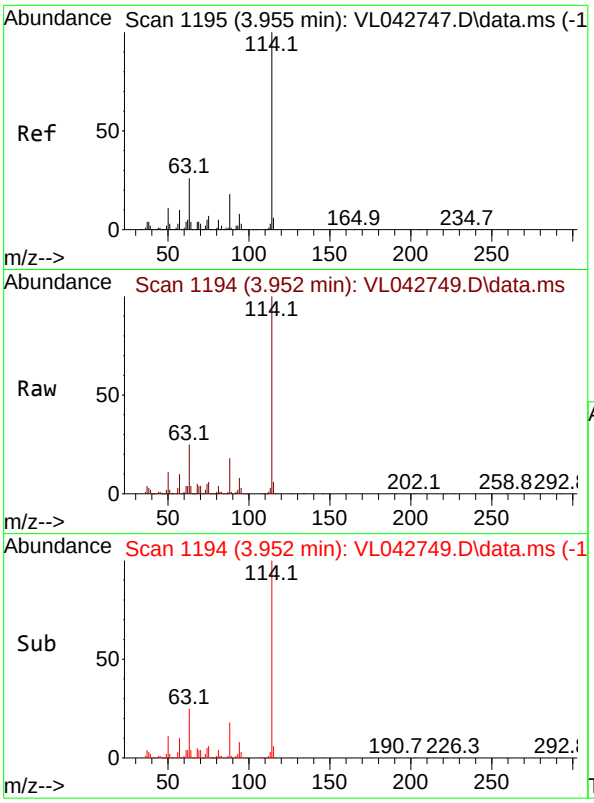


#32
1,1,1-Trichloroethane
Concen: 0.949 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 97 Resp: 32003

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.0	76.6
61	54.5	40.9	61.3



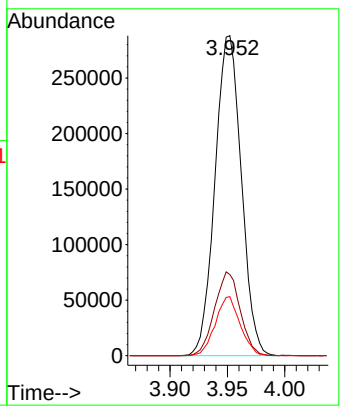


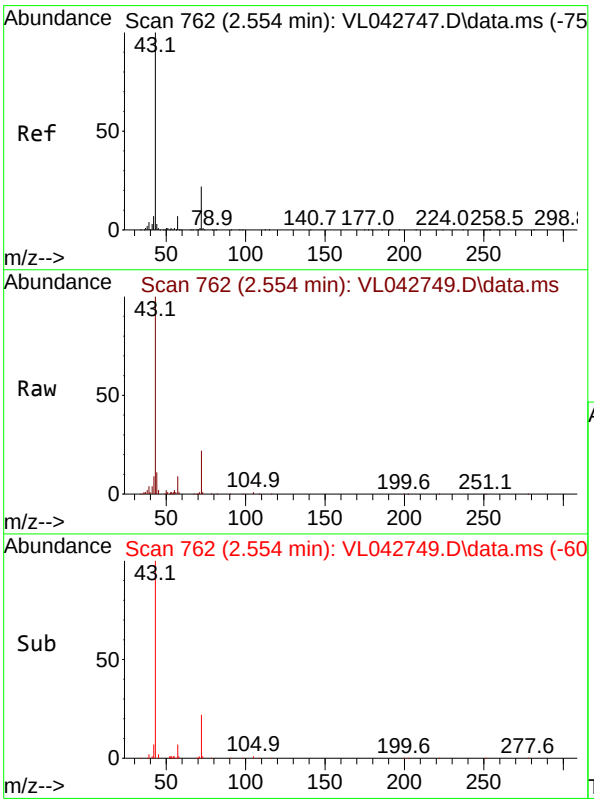
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:114 Resp: 459770

Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.5	30.7
88	17.4	14.0	21.0

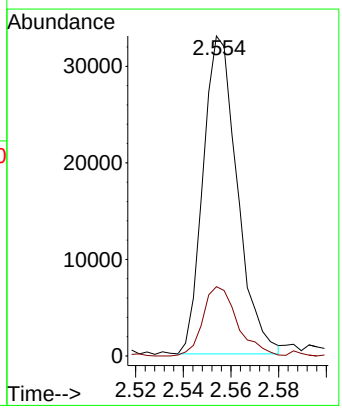


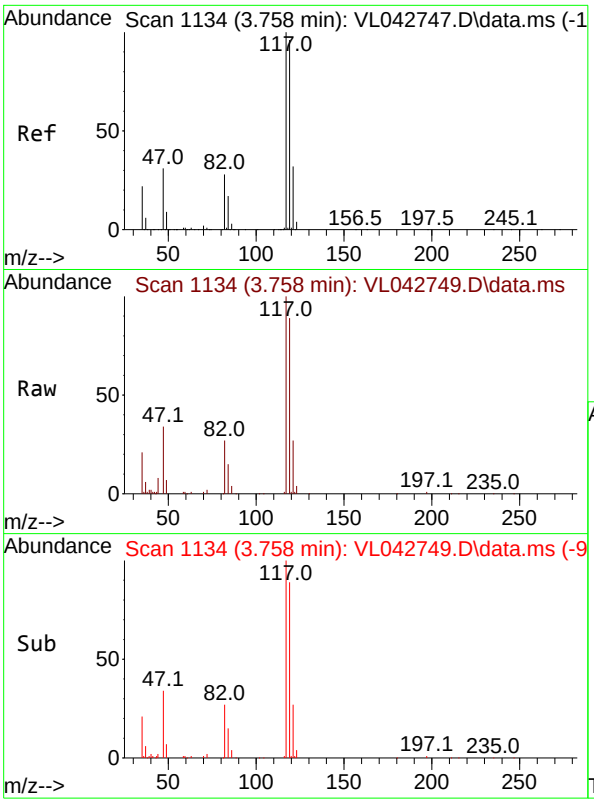


#34
2-Butanone
Concen: 1.007 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 43 Resp: 32783

Ion	Ratio	Lower	Upper
43	100		
72	22.7	17.4	26.0



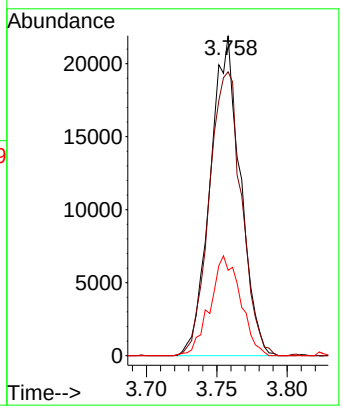


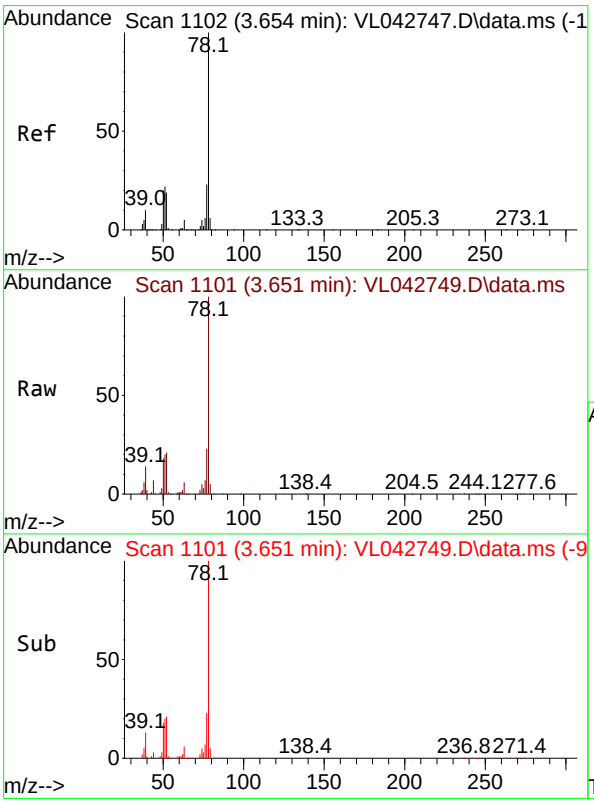
#35
Carbon Tetrachloride
Concen: 0.954 ppbv
RT: 3.758 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 32610

Ion	Ratio	Lower	Upper
117	100		
119	88.7	77.1	115.7
121	26.7	25.5	38.3

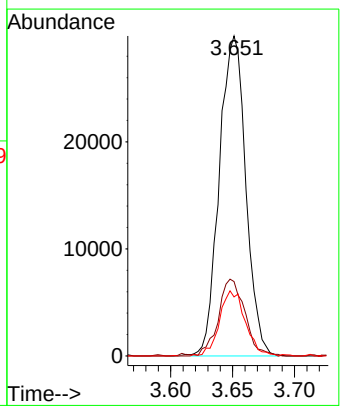


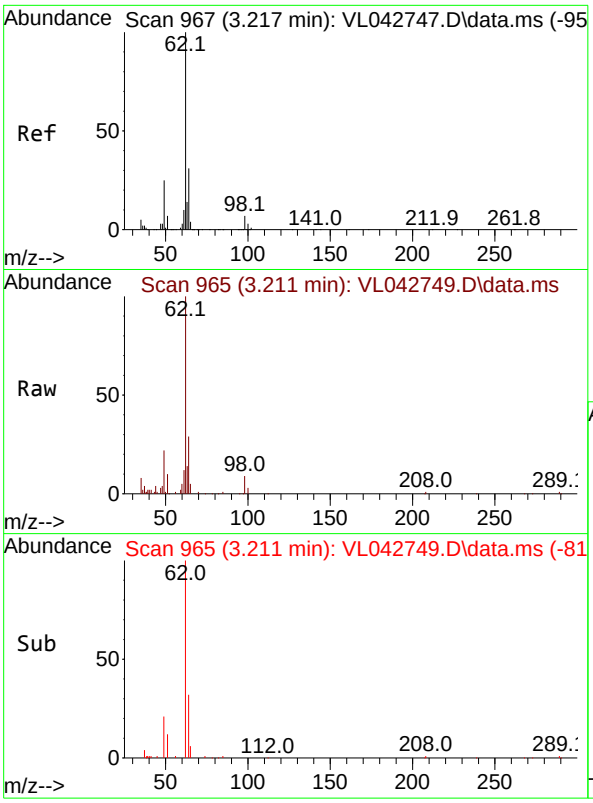


#36
Benzene
Concen: 1.024 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 78 Resp: 44638

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.5	27.7
50	18.4	16.2	24.2



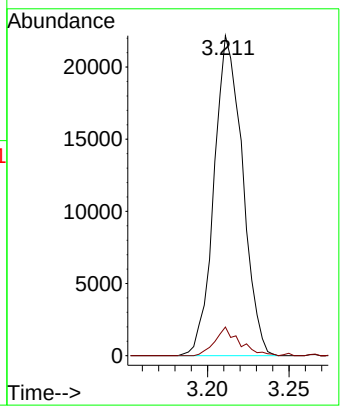


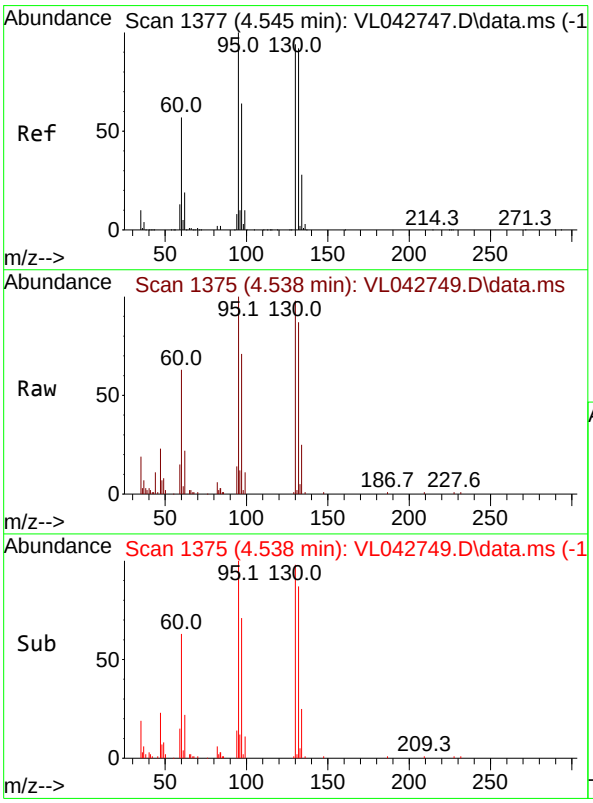
#37
1,2-Dichloroethane
Concen: 1.025 ppbv
RT: 3.211 min Scan# 9
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 26909

Ion	Ratio	Lower	Upper
62	100		
98	8.0	5.2	7.8#

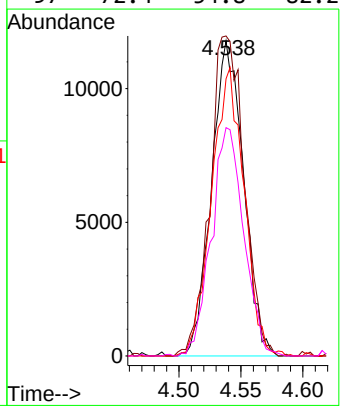


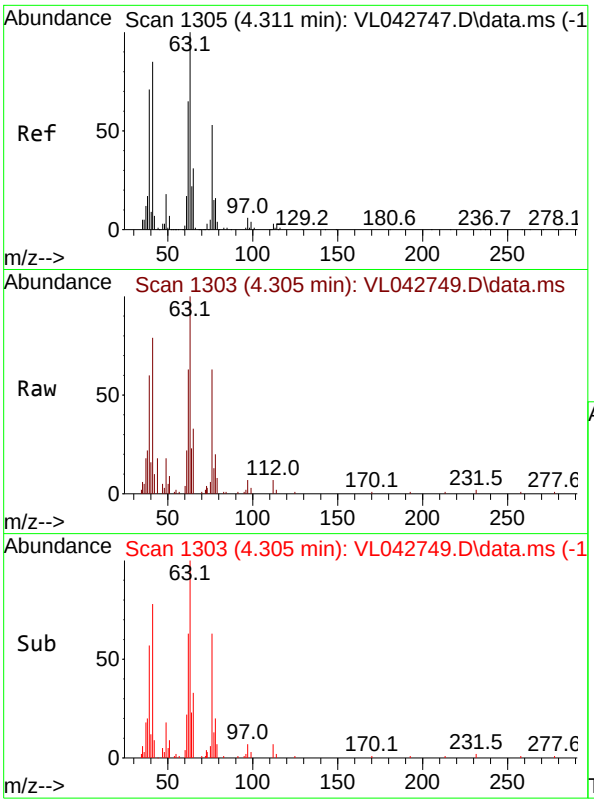


#38
Trichloroethene
Concen: 1.005 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:130 Resp: 21122

Ion	Ratio	Lower	Upper
130	100		
95	101.6	85.4	128.2
132	87.5	78.2	117.2
97	72.4	54.8	82.2



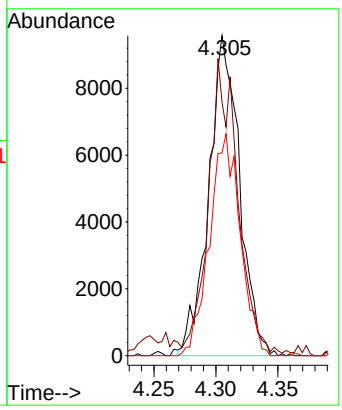


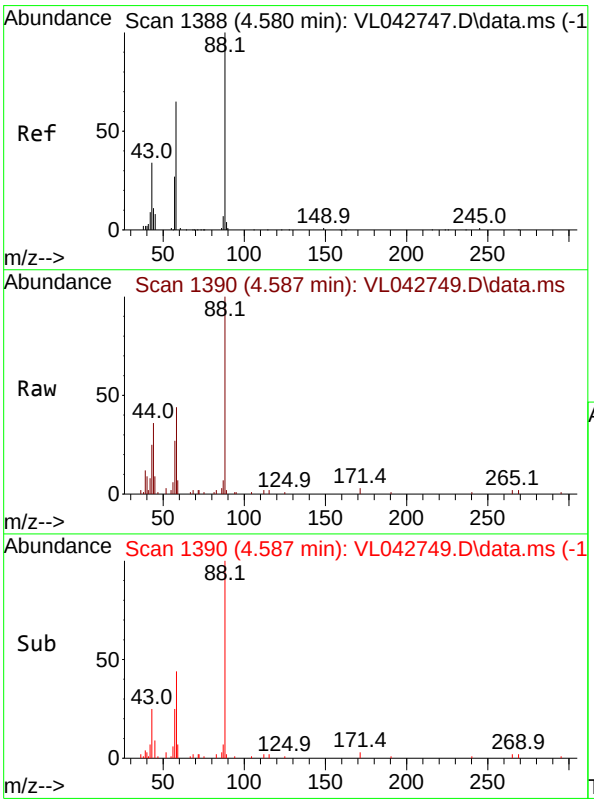
#39
1,2-Dichloropropane
Concen: 1.033 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 16622

Ion	Ratio	Lower	Upper
63	100		
41	77.8	68.2	102.4
62	63.3	52.0	78.0

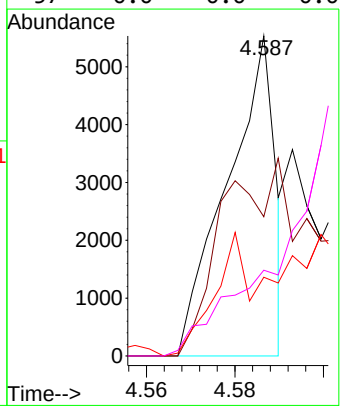


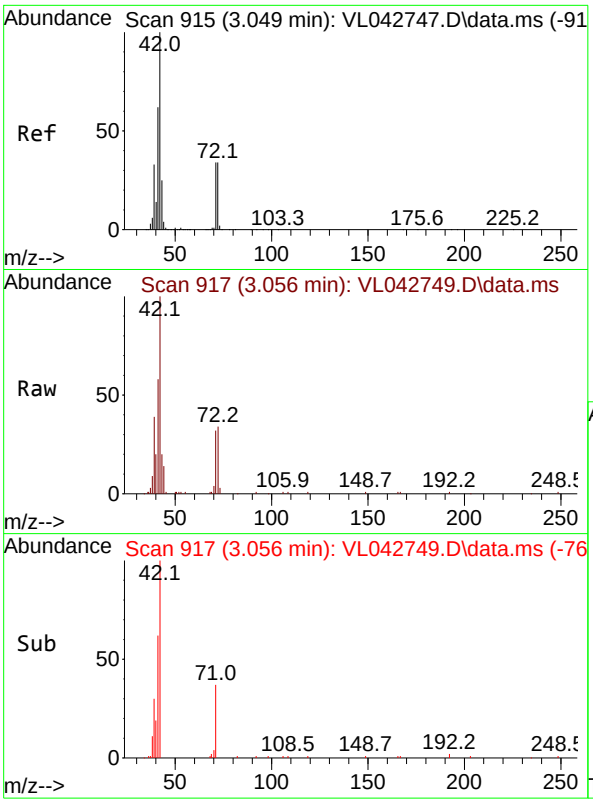


#40
1,4-Dioxane
Concen: 0.552 ppbv
RT: 4.587 min Scan# 1390
Delta R.T. 0.006 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 88 Resp: 4184

Ion	Ratio	Lower	Upper
88	100		
58	0.0	58.8	88.2#
43	0.0	28.9	43.3#
57	0.0	0.0	0.0



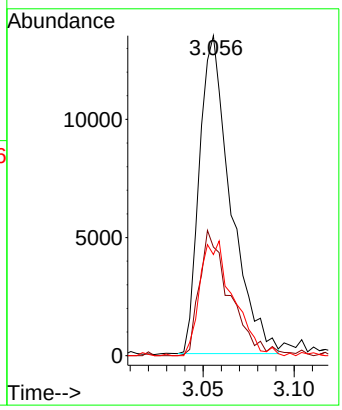


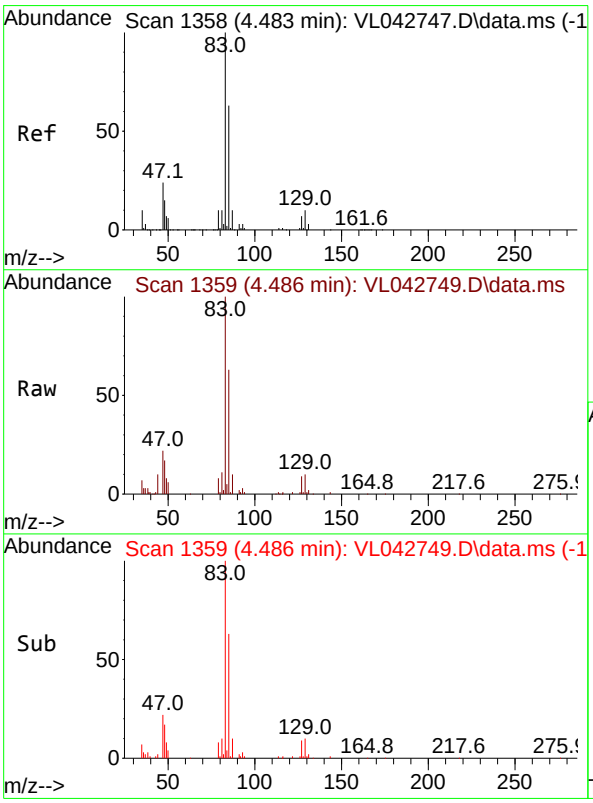
#41
Tetrahydrofuran
Concen: 0.984 ppbv
RT: 3.056 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 16097

Ion	Ratio	Lower	Upper
42	100		
72	39.1	30.9	46.3
71	38.6	28.6	43.0

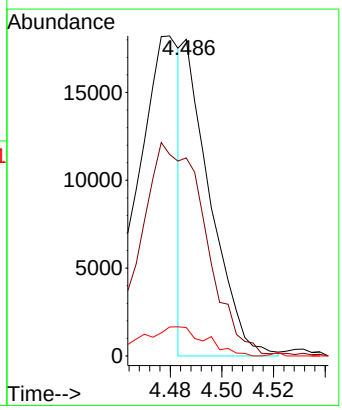


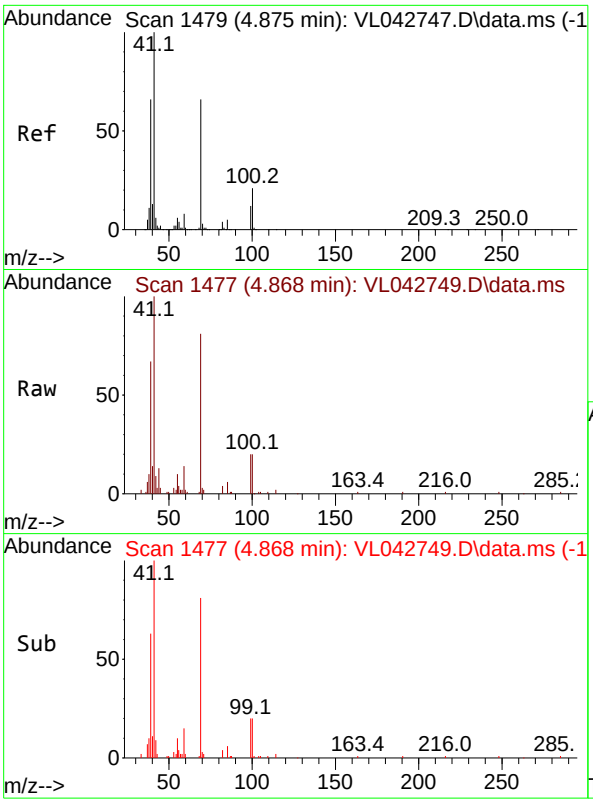


#42
Bromodichloromethane
Concen: 0.388 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 83 Resp: 13285

Ion	Ratio	Lower	Upper
83	100		
85	62.4	50.2	75.4
127	8.0	5.4	8.2



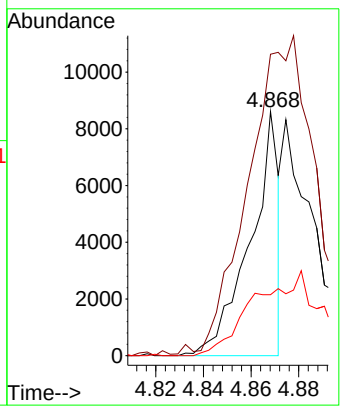


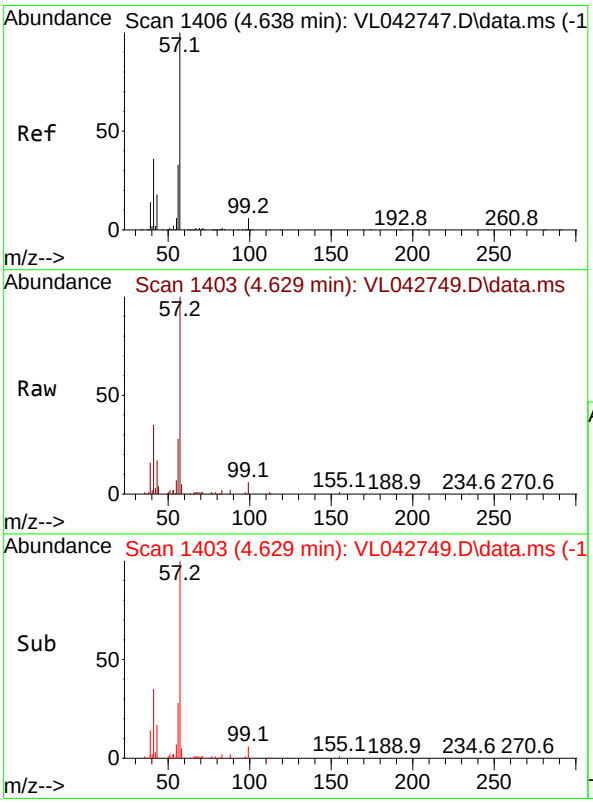
#43
Methyl Methacrylate
Concen: 0.461 ppbv
RT: 4.868 min Scan# 14
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 7135

Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	0.0	28.6	42.8#

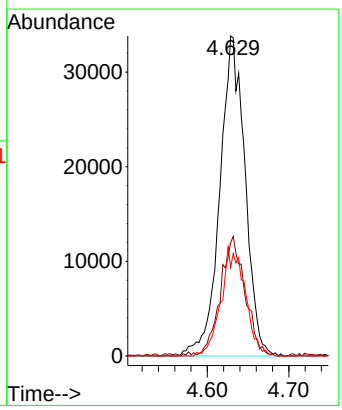


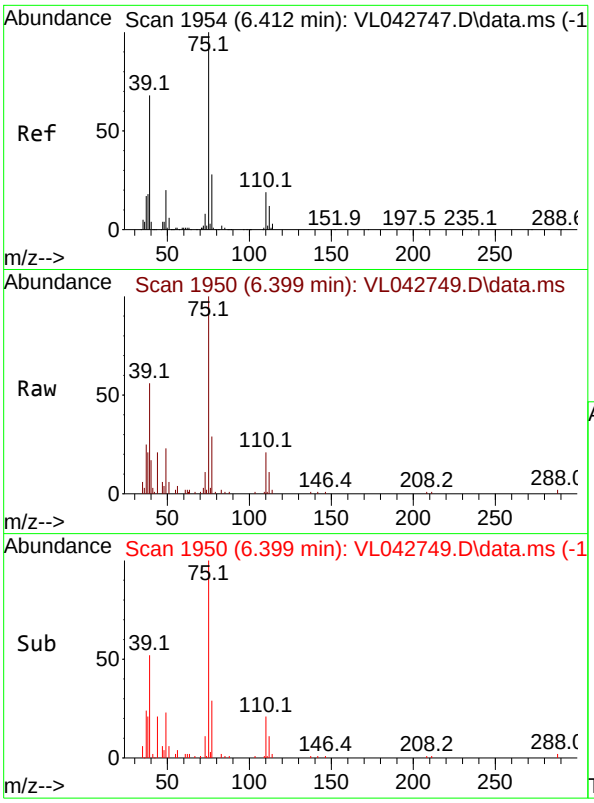


#44
2,2,4-Trimethylpentane
Concen: 1.026 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 57 Resp: 72865

Ion	Ratio	Lower	Upper
57	100		
41	36.4	28.3	42.5
56	32.5	25.8	38.6



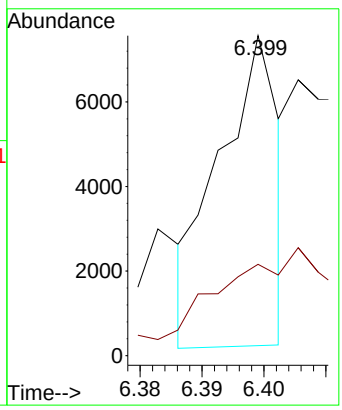


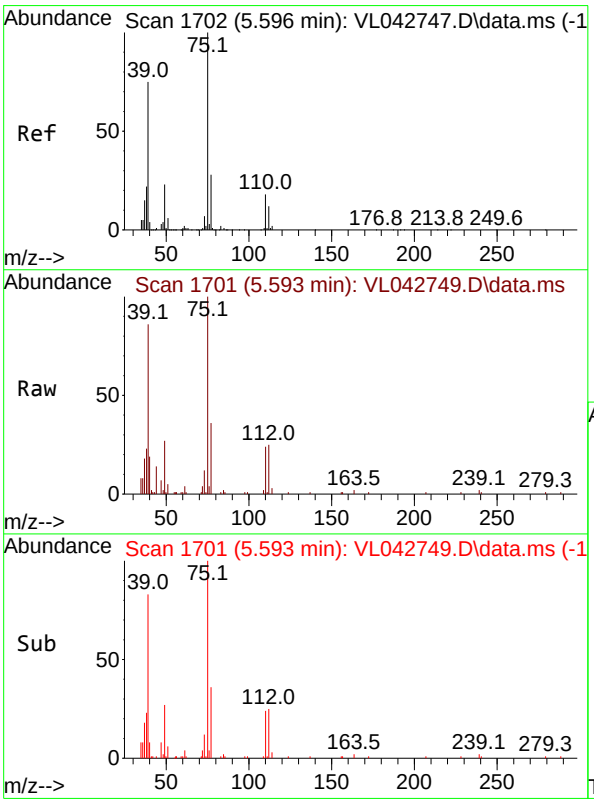
#45
t-1,3-Dichloropropene
Concen: 0.284 ppbv
RT: 6.399 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 4937

Ion	Ratio	Lower	Upper
75	100		
77	28.5	22.4	33.6

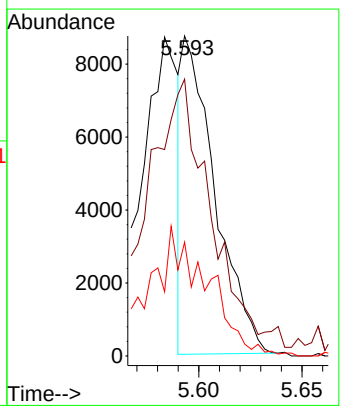


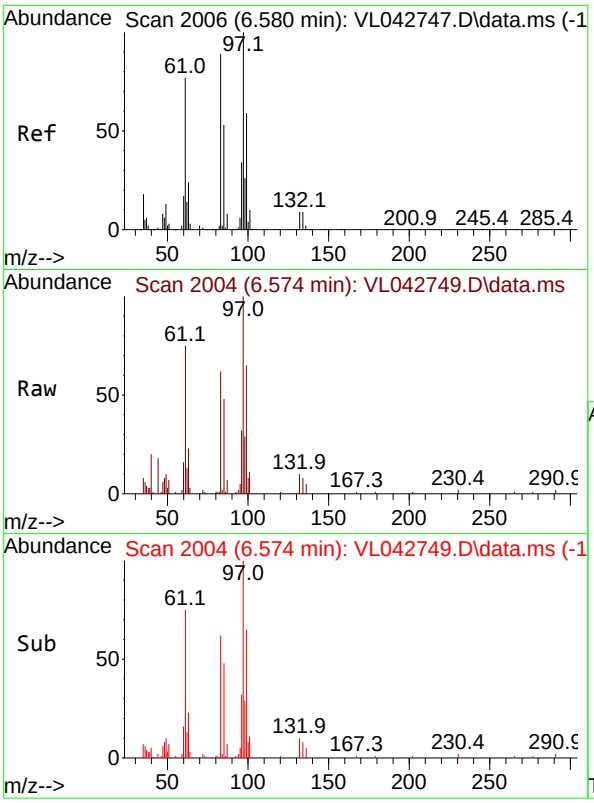


#46
cis-1,3-Dichloropropene
Concen: 0.439 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 75 Resp: 9670

Ion	Ratio	Lower	Upper
75	100		
39	78.0	60.2	90.2
77	35.3	22.6	34.0#



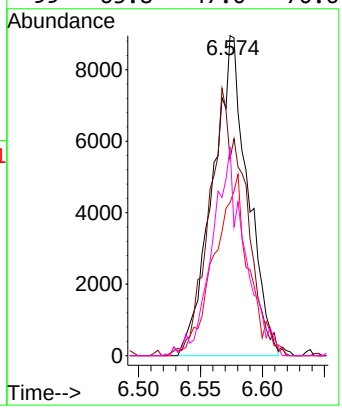


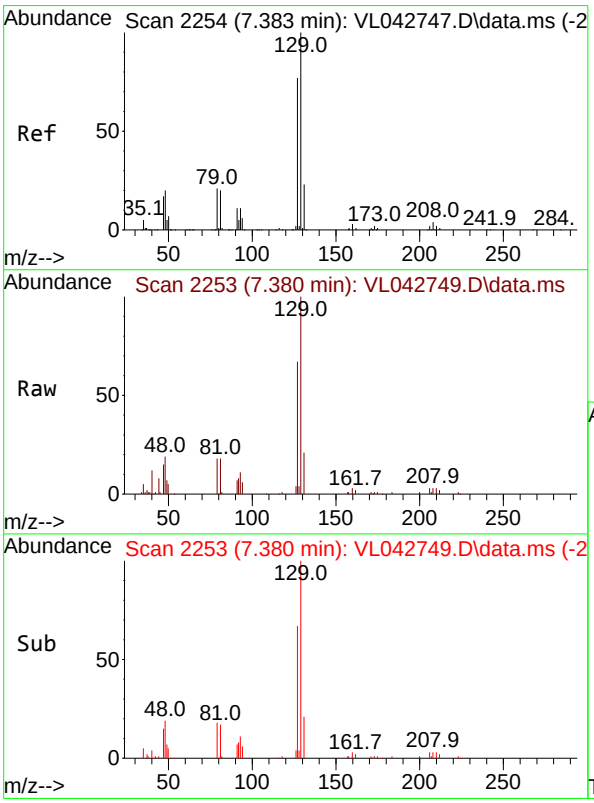
#47
1,1,2-Trichloroethane
Concen: 1.029 ppbv
RT: 6.574 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 17646

Ion	Ratio	Lower	Upper
97	100		
83	60.2	71.1	106.7#
85	46.8	43.0	64.4
99	63.8	47.0	70.6

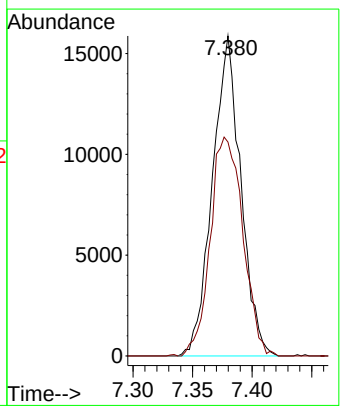


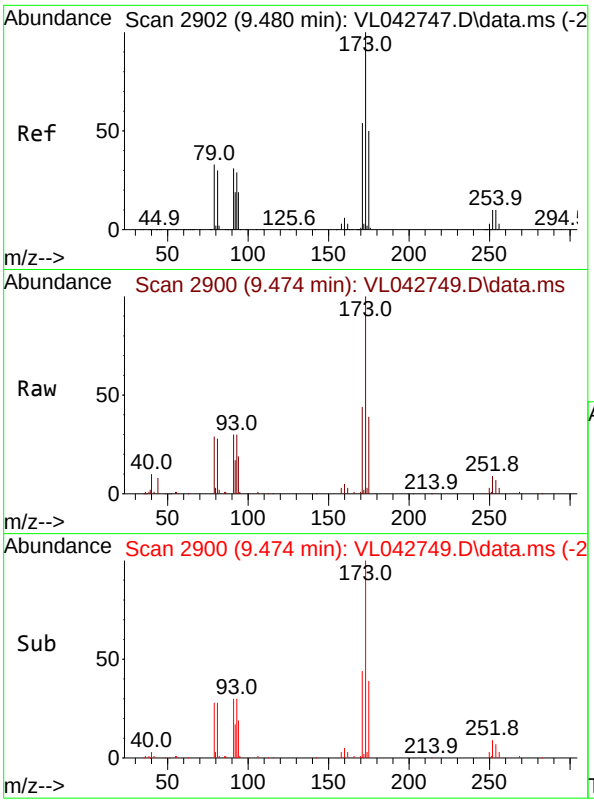


#48
Dibromochloromethane
Concen: 0.965 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:129 Resp: 26259

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.7	116.1



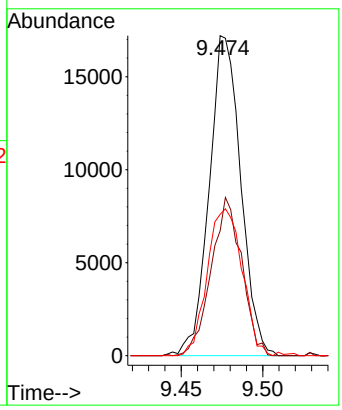


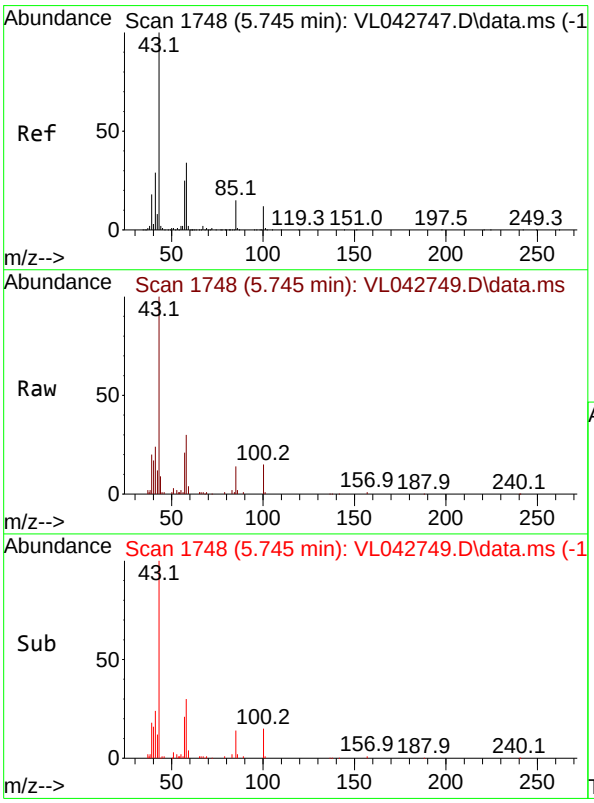
#49
Bromoform
Concen: 0.973 ppbv
RT: 9.474 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 23083

Ion	Ratio	Lower	Upper
173	100		
175	48.0	38.4	57.6
171	51.3	40.9	61.3

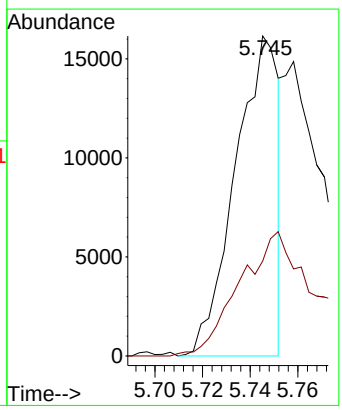


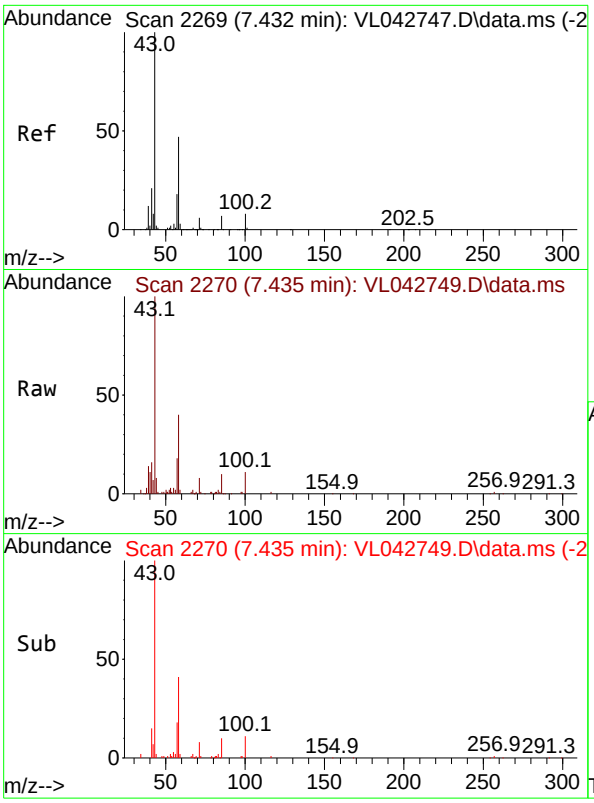


#50
4-Methyl-2-Pentanone
Concen: 0.488 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 43 Resp: 20247

Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.8	41.8#



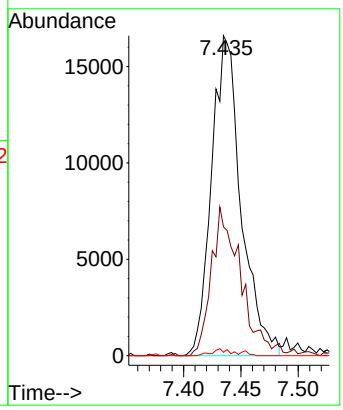


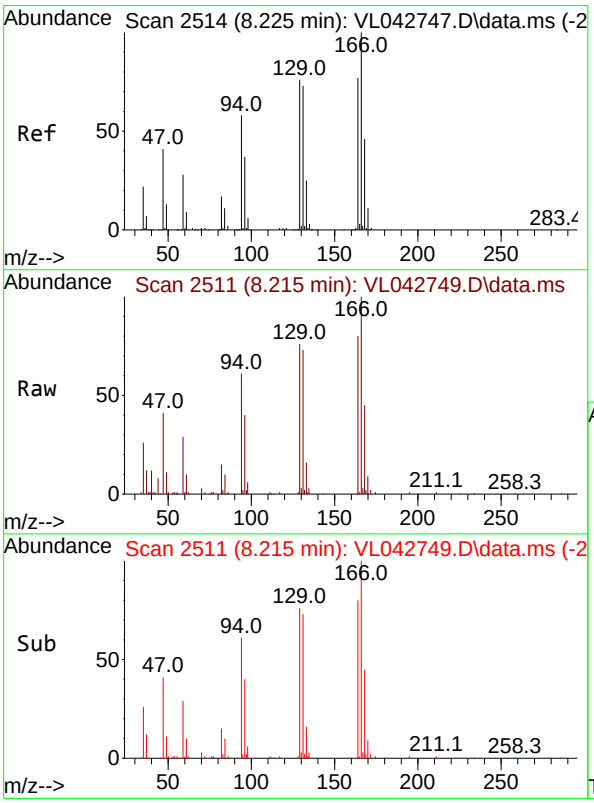
#51
2-Hexanone
Concen: 0.939 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 29761

Ion	Ratio	Lower	Upper
43	100		
58	47.5	38.0	57.0
98	1.6	0.2	0.4#

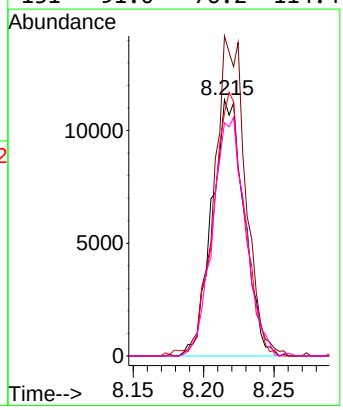


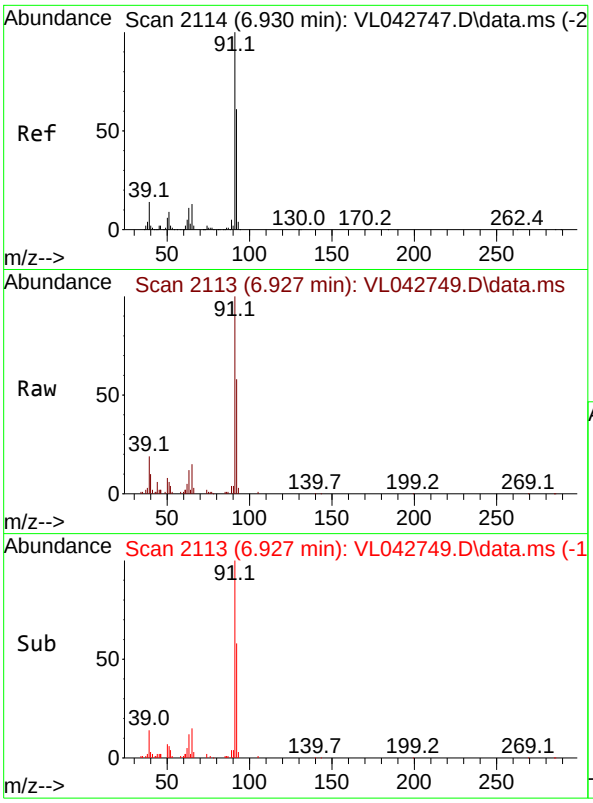


#52
Tetrachloroethene
Concen: 1.001 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:164 Resp: 18131

Ion	Ratio	Lower	Upper
164	100		
166	124.9	104.0	156.0
129	94.8	79.2	118.8
131	91.0	76.2	114.4



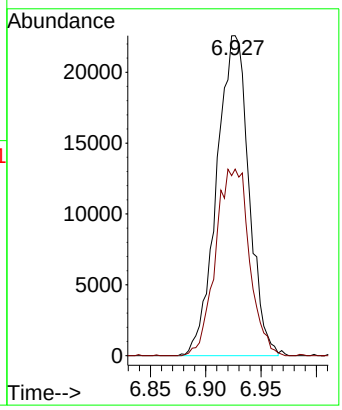


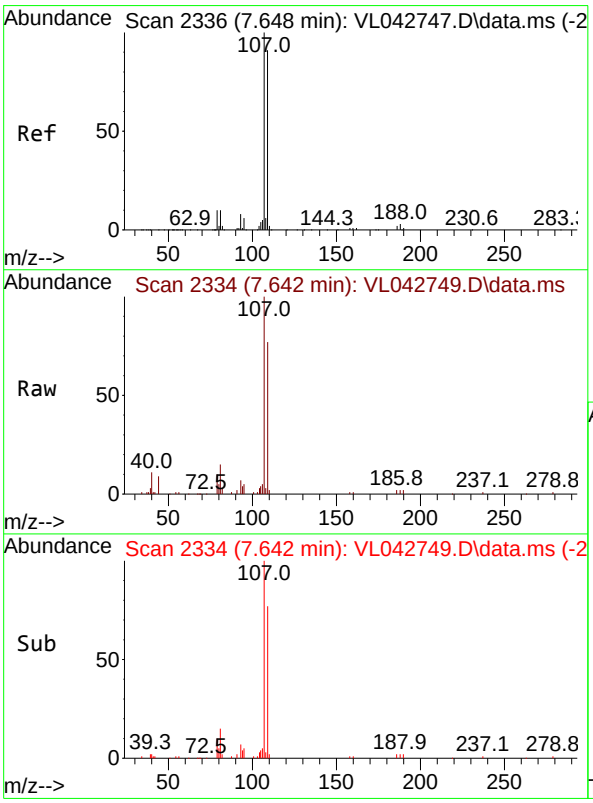
#53
Toluene
Concen: 0.976 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 45645

Ion	Ratio	Lower	Upper
91	100		
92	61.5	48.0	72.0

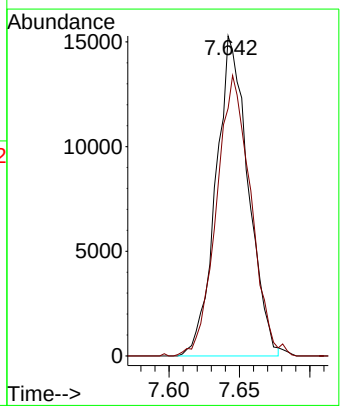


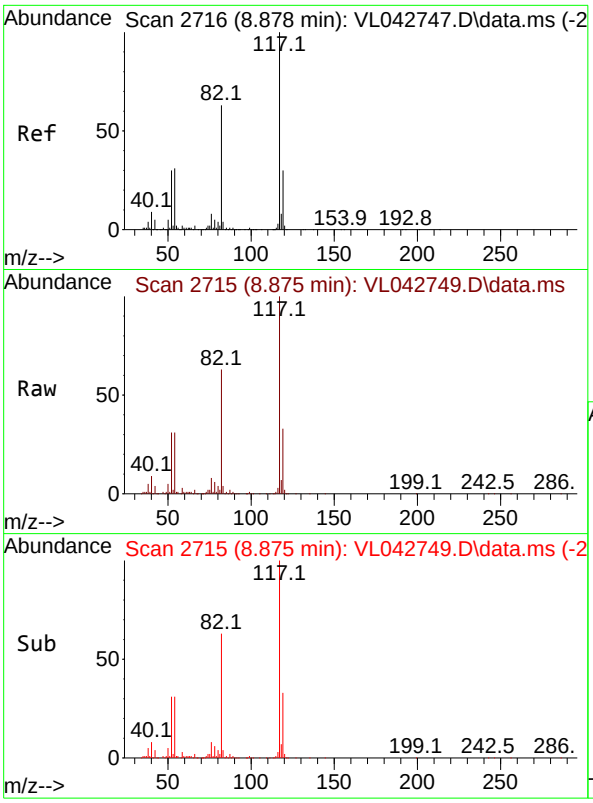


#54
1,2-Dibromoethane
Concen: 1.007 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:107 Resp: 24427

Ion	Ratio	Lower	Upper
107	100		
109	76.9	72.7	109.1



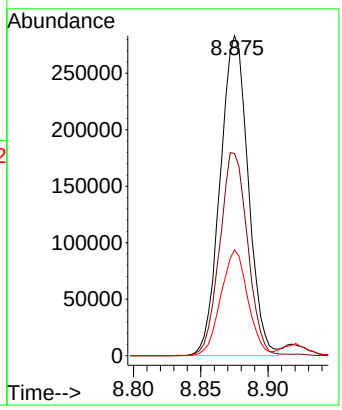


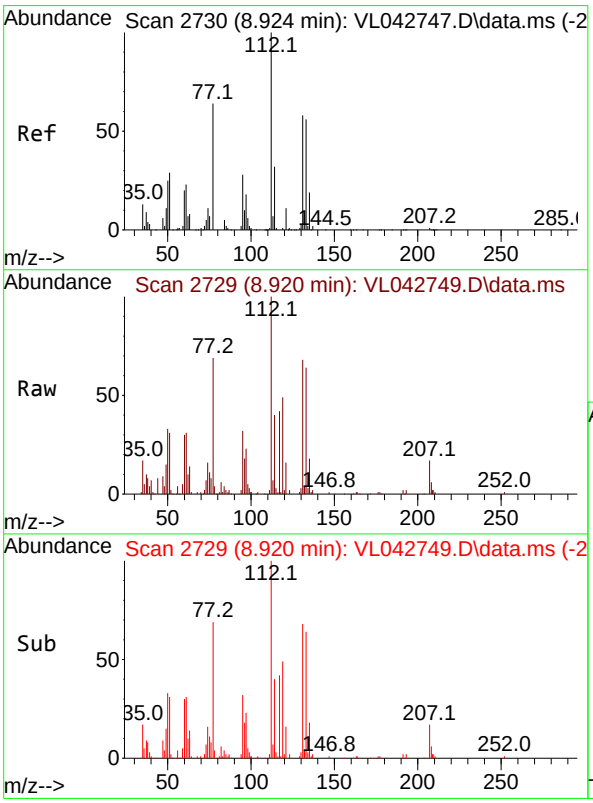
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 410018

Ion	Ratio	Lower	Upper
117	100		
82	63.5	53.3	79.9
119	32.0	25.8	38.6

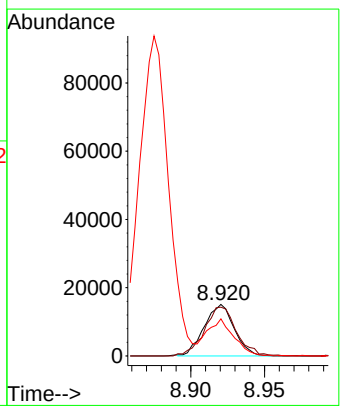


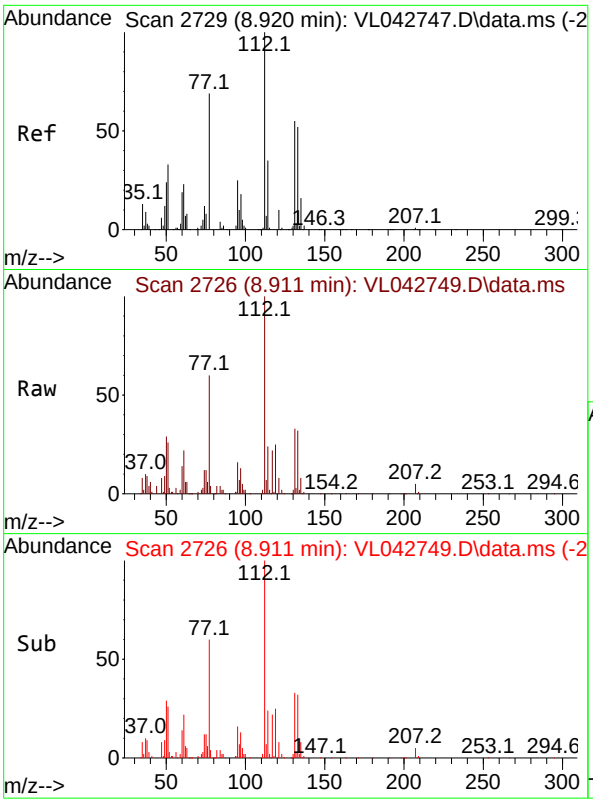


#56
1,1,1,2-Tetrachloroethane
Concen: 1.000 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:131 Resp: 21319

Ion	Ratio	Lower	Upper
131	100		
133	102.0	76.8	115.2
119	58.6	49.7	74.5



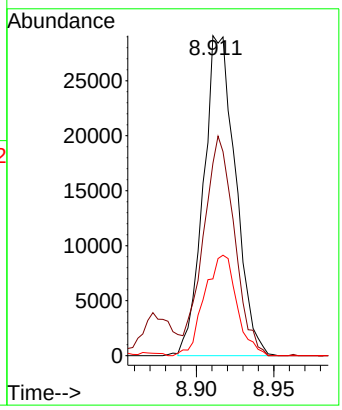


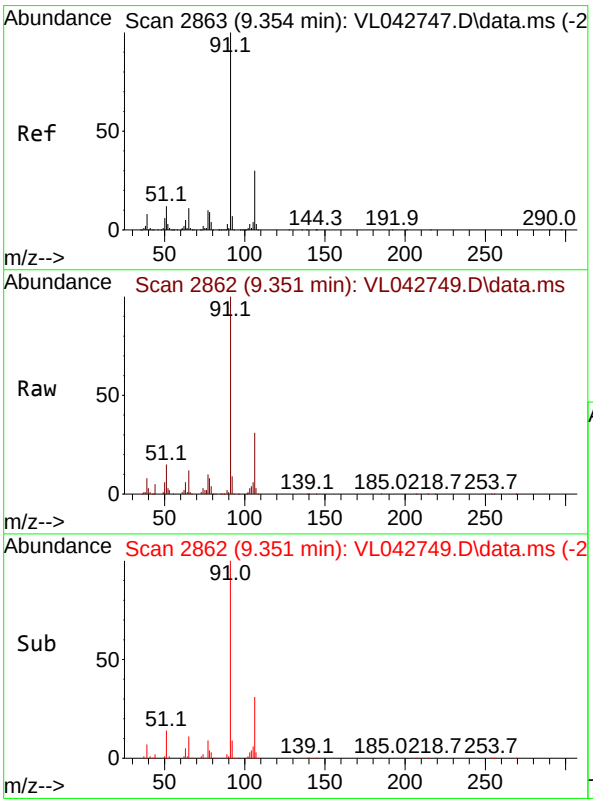
#57
Chlorobenzene
Concen: 1.053 ppbv
RT: 8.911 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 41788

Ion	Ratio	Lower	Upper
112	100		
77	60.1	56.4	84.6
114	24.0	31.2	38.2#

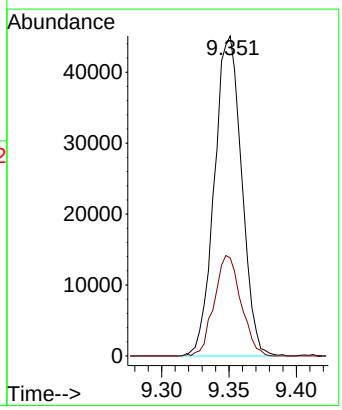


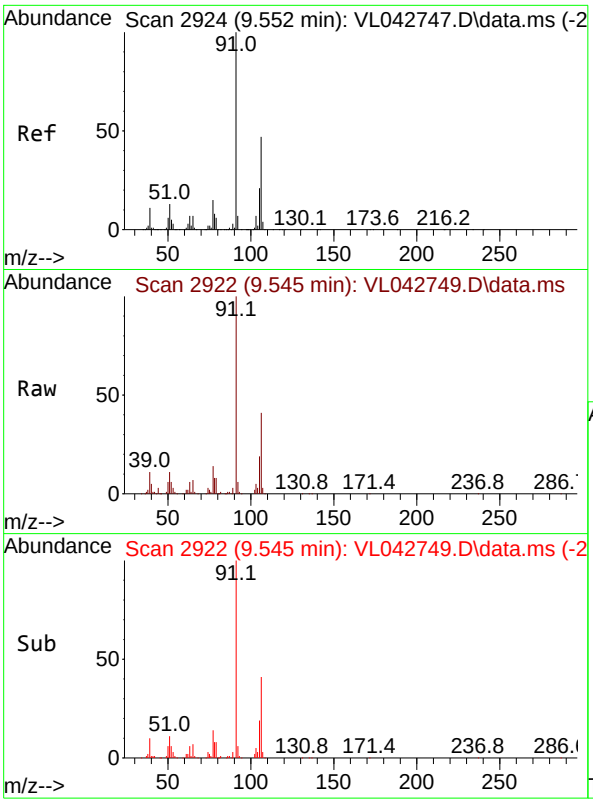


#58
Ethyl Benzene
Concen: 0.980 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 63467

Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.8	35.6



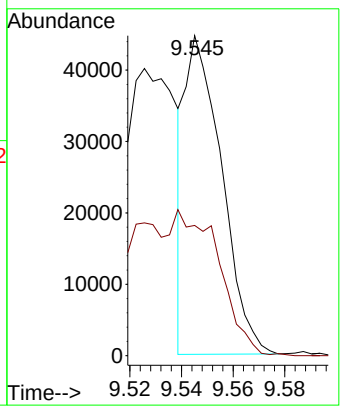


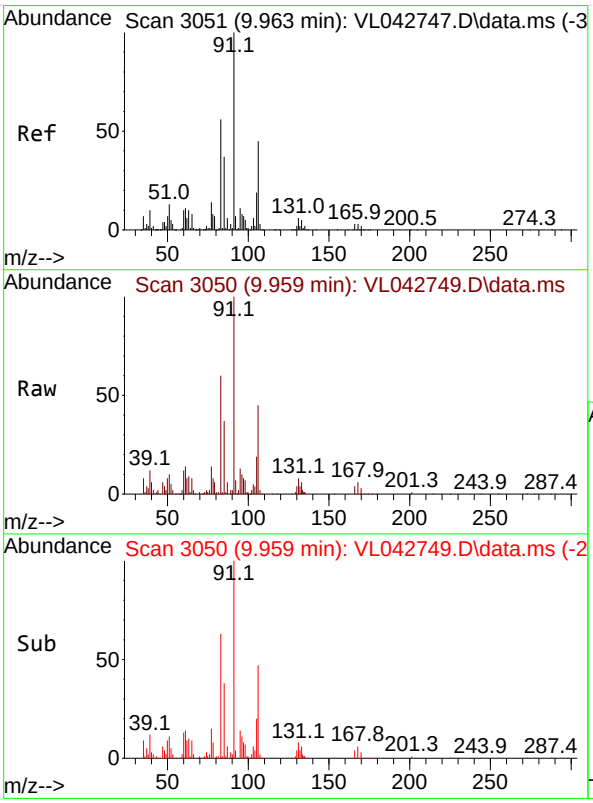
#59
m/p-Xylene
Concen: 0.849 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 43966

Ion	Ratio	Lower	Upper
91	100		
106	111.6	37.4	56.2#

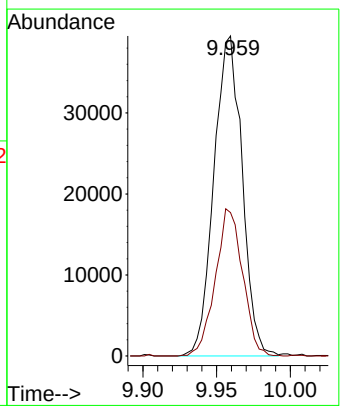


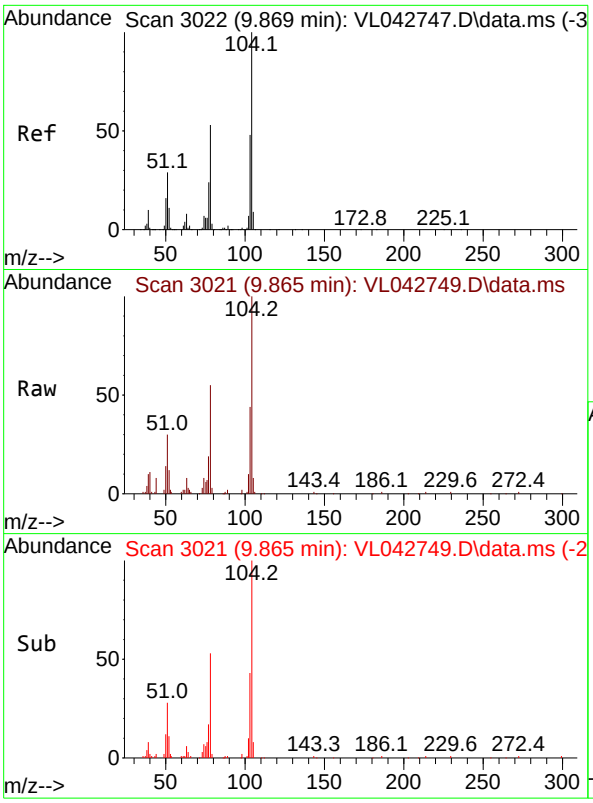


#60
o-Xylene
Concen: 1.015 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 52499

Ion	Ratio	Lower	Upper
91	100		
106	44.6	22.0	66.0



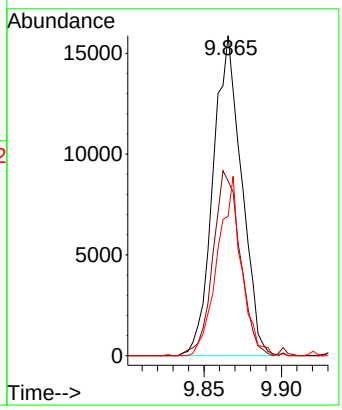


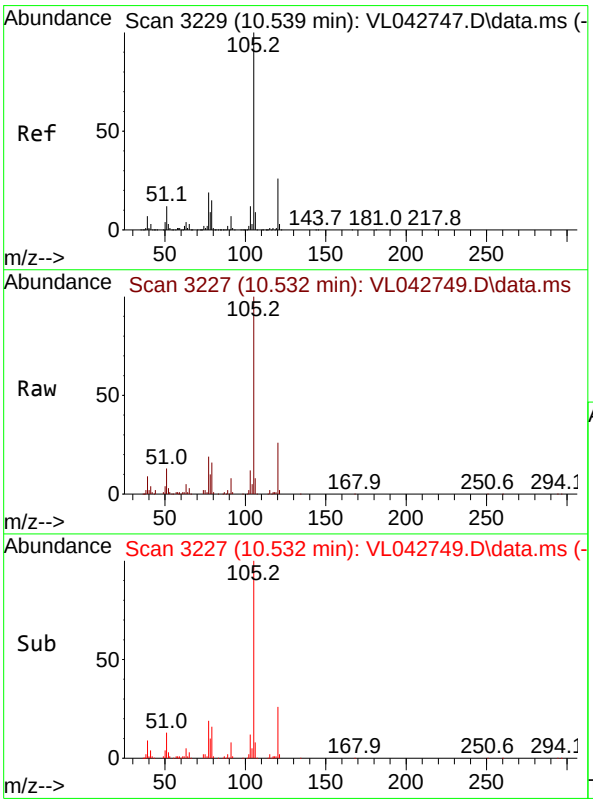
#61
Styrene
Concen: 0.934 ppbv
RT: 9.865 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:104 Resp: 20313

Ion	Ratio	Lower	Upper
104	100		
78	55.7	41.5	62.3
103	47.2	37.5	56.3

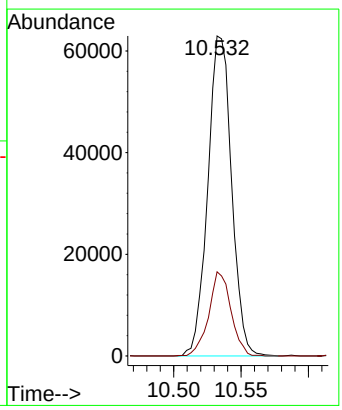


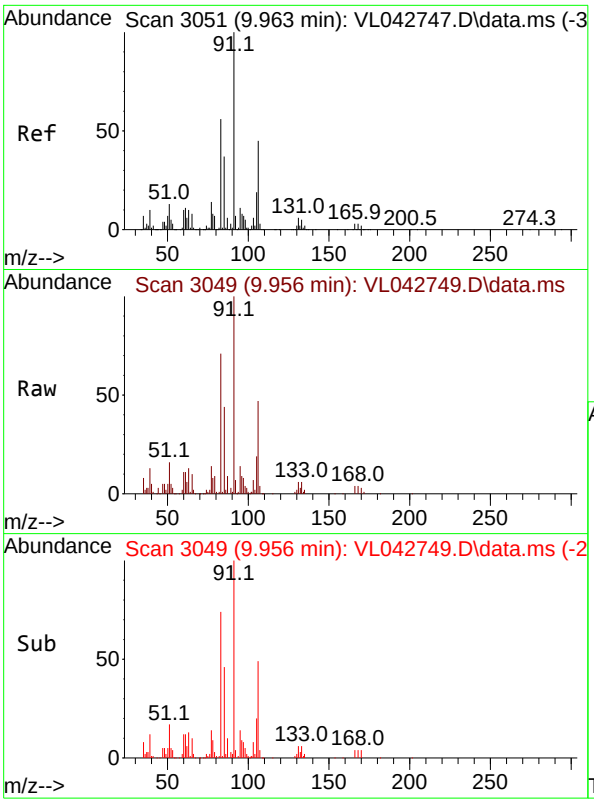


#62
Isopropylbenzene
Concen: 1.013 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 77278

Ion	Ratio	Lower	Upper
105	100		
120	24.6	20.5	30.7



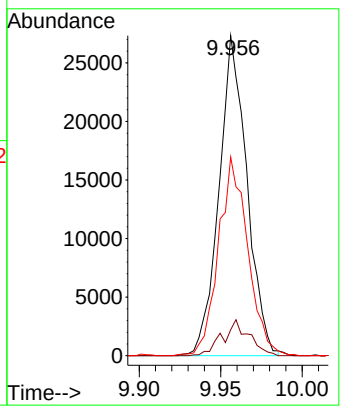


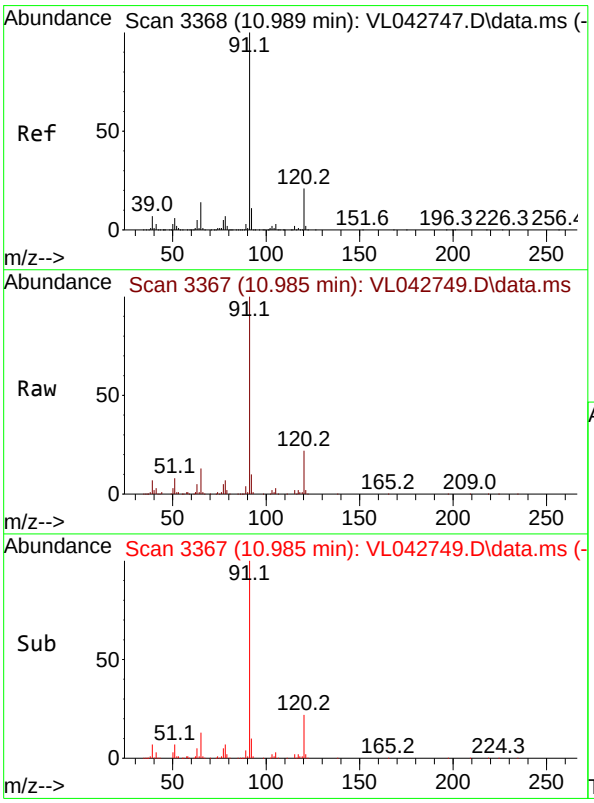
#63
1,1,2,2-Tetrachloroethane
Concen: 0.967 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 32591

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.0	15.0
85	65.1	32.6	97.7

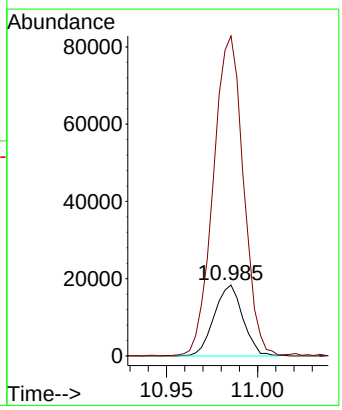


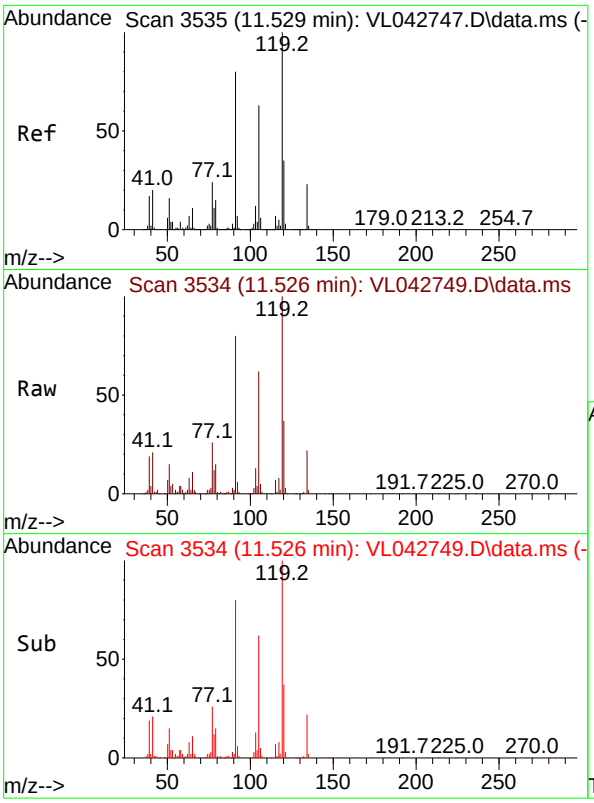


#64
n-propylbenzene
Concen: 1.009 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:120 Resp: 20073

Ion	Ratio	Lower	Upper
120	100		
91	478.1	372.7	559.1



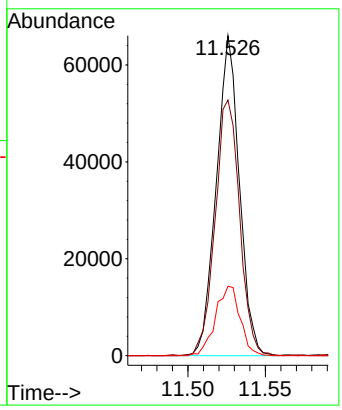


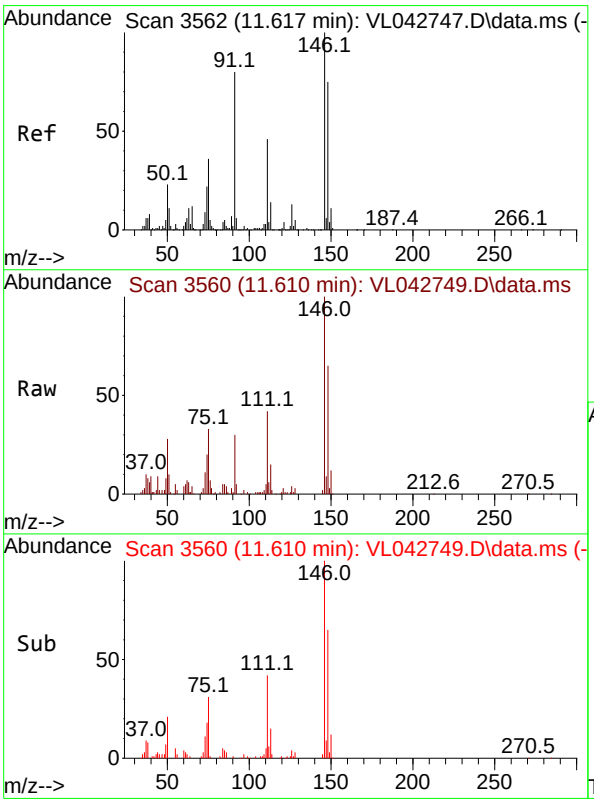
#65
tert-Butylbenzene
Concen: 1.010 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 68428

Ion	Ratio	Lower	Upper
119	100		
91	85.1	64.0	96.0
134	23.1	17.3	25.9

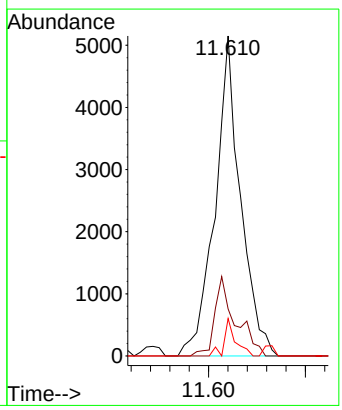


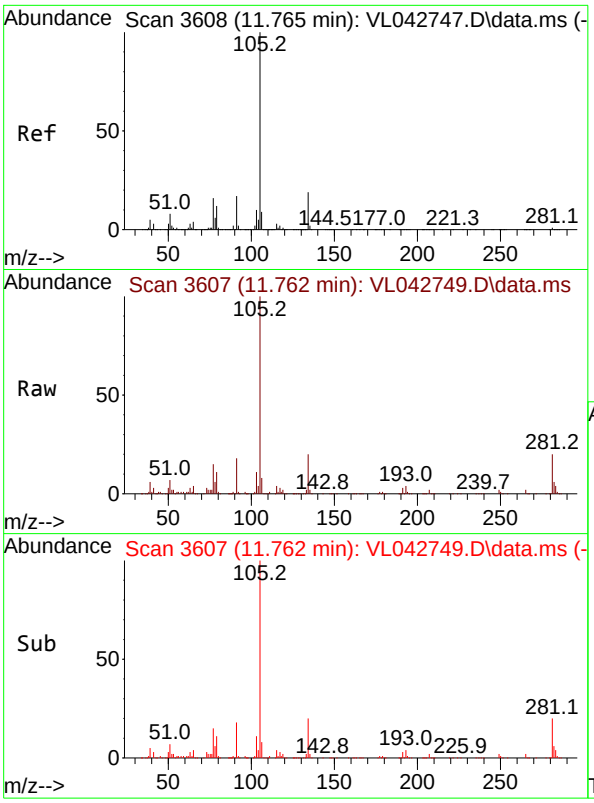


#66
Benzyl Chloride
Concen: 0.845 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 4700

Ion	Ratio	Lower	Upper
91	100		
126	20.3	14.4	21.6
128	6.5	5.2	7.8



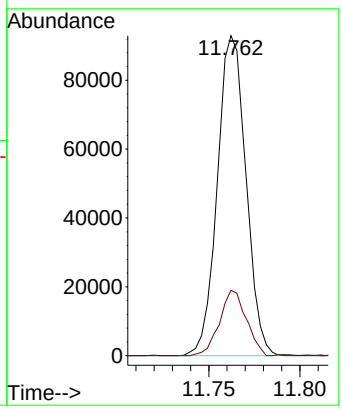


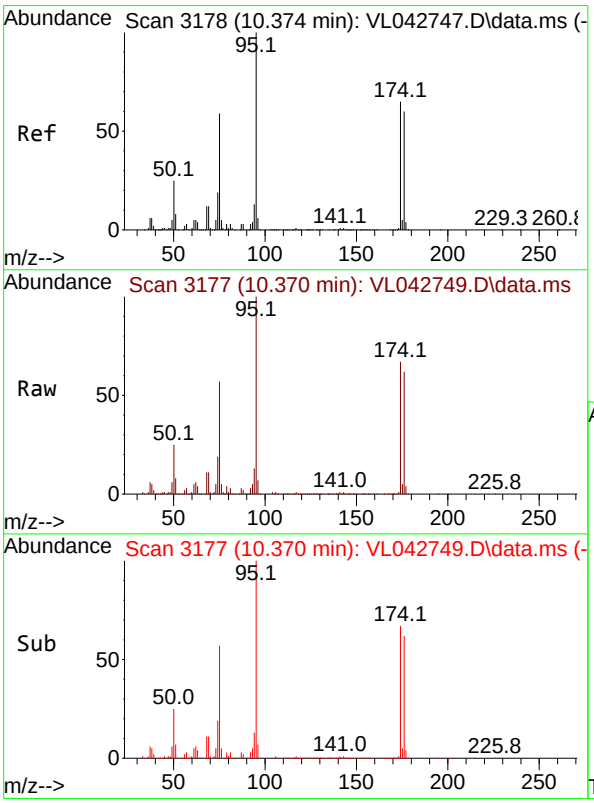
#67
sec-Butylbenzene
Concen: 1.053 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 101458

Ion	Ratio	Lower	Upper
105	100		
134	19.1	15.5	23.3

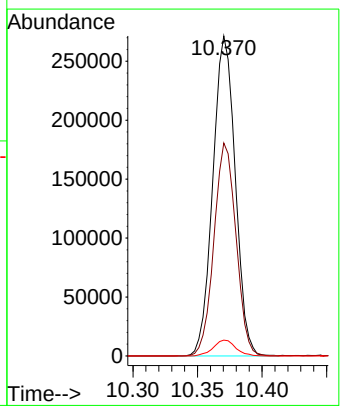


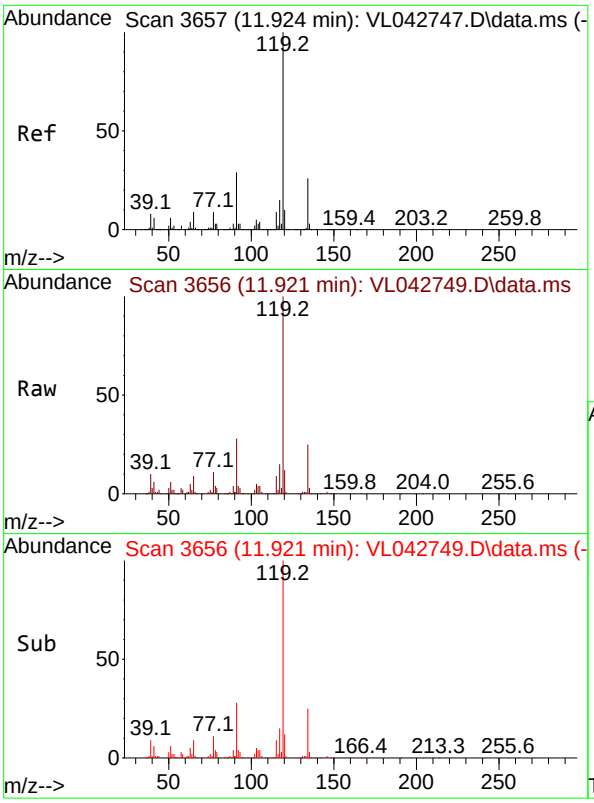


#68
1-Bromo-4-Fluorobenzene
Concen: 10.091 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 95 Resp: 327673

Ion	Ratio	Lower	Upper
95	100		
174	65.4	53.8	80.6
175	5.0	4.0	6.0



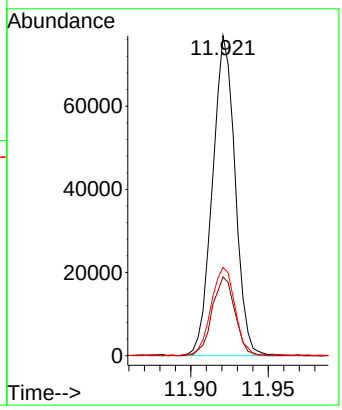


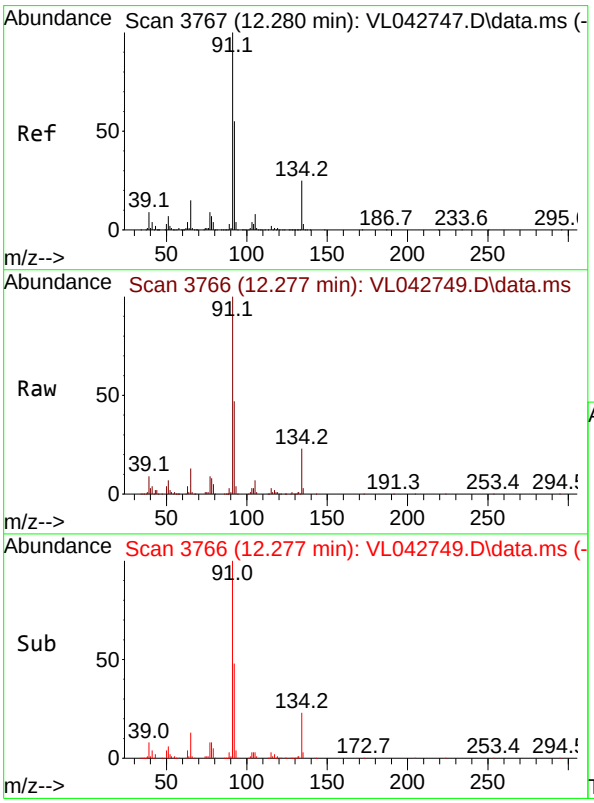
#69
p-Isopropyltoluene
Concen: 0.995 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 78186

Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.6	31.0
91	29.8	23.2	34.8

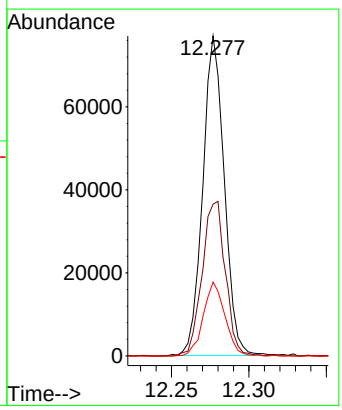


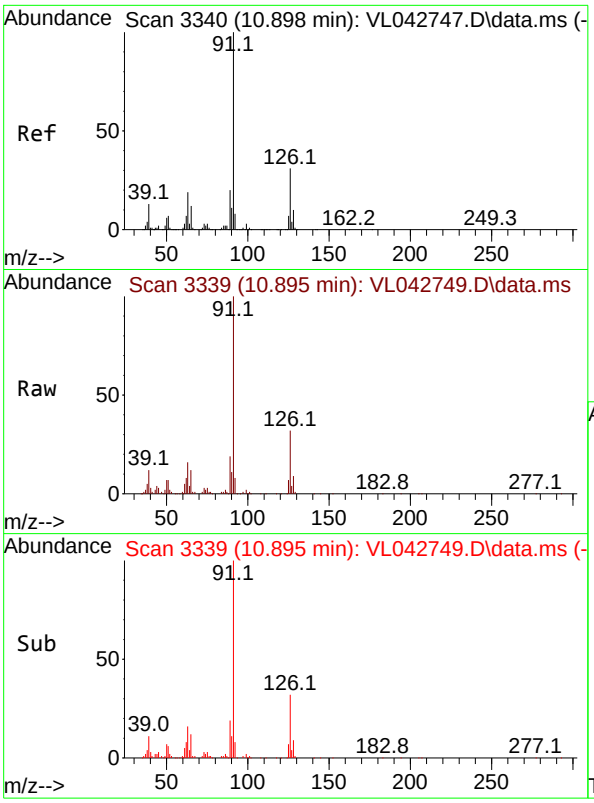


#70
n-Butylbenzene
Concen: 0.978 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 74257

Ion	Ratio	Lower	Upper
91	100		
92	52.4	43.4	65.2
134	23.4	19.6	29.4



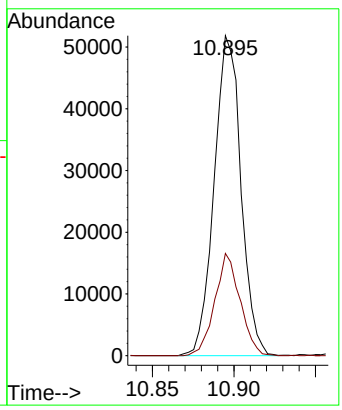


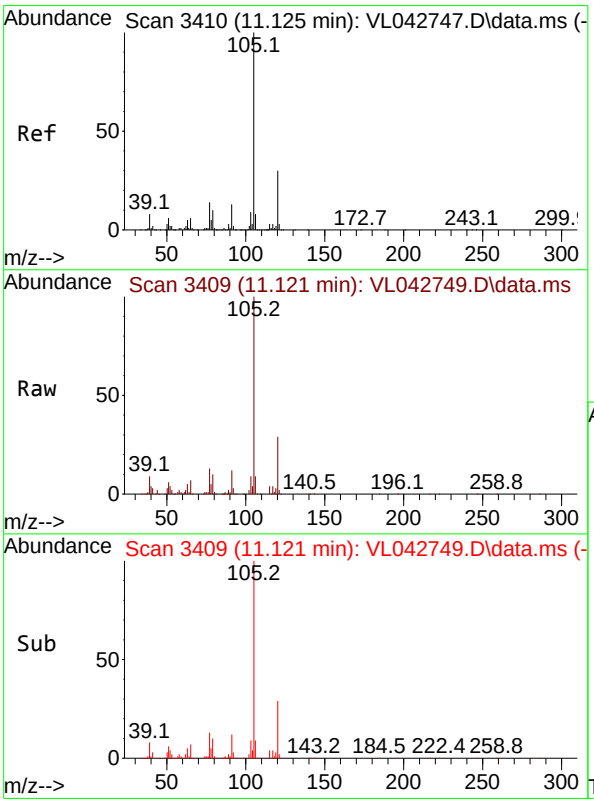
#71
2-Chlorotoluene
Concen: 1.012 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 59193

Ion	Ratio	Lower	Upper
91	100		
126	30.1	12.0	48.2

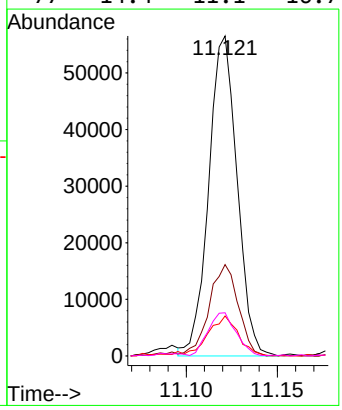


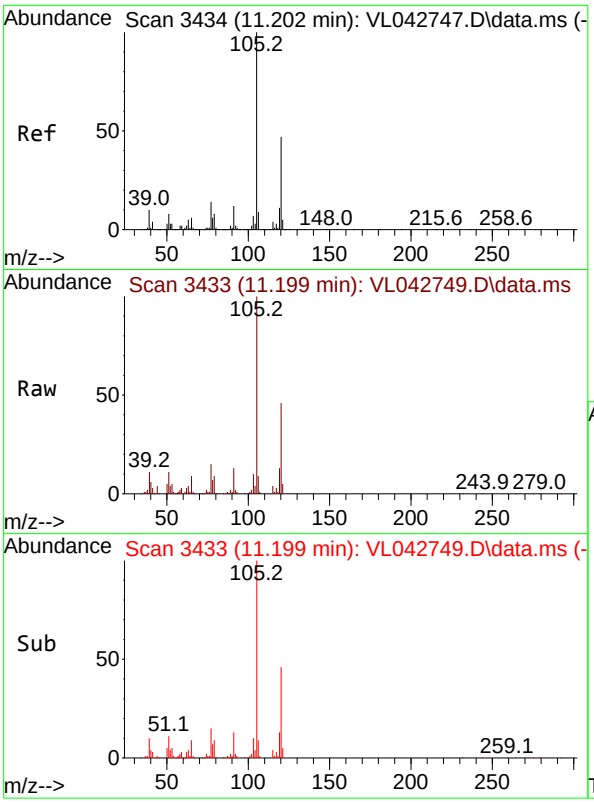


#72
4-Ethyltoluene
Concen: 0.991 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 61199

Ion	Ratio	Lower	Upper
105	100		
120	30.2	24.4	36.6
91	14.2	10.6	15.8
77	14.4	11.1	16.7



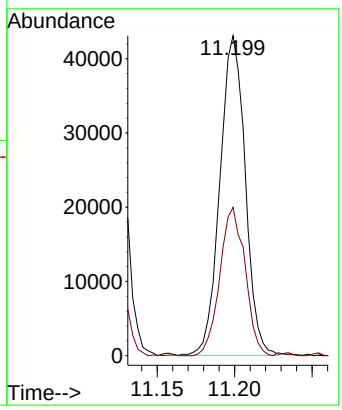


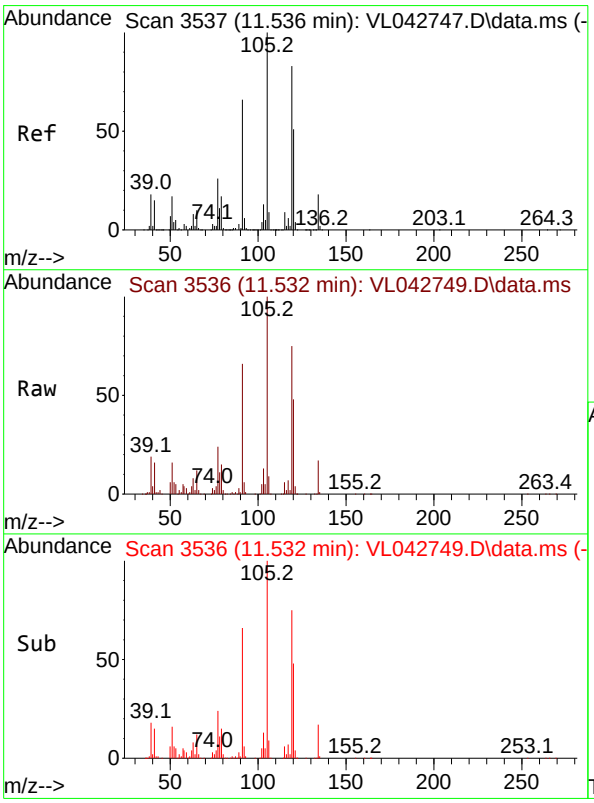
#73
1,3,5-Trimethylbenzene
Concen: 0.962 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 48901

Ion	Ratio	Lower	Upper
105	100		
120	46.4	37.8	56.8

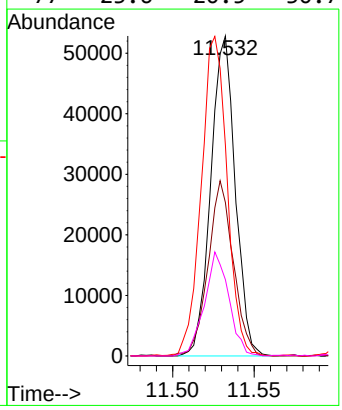


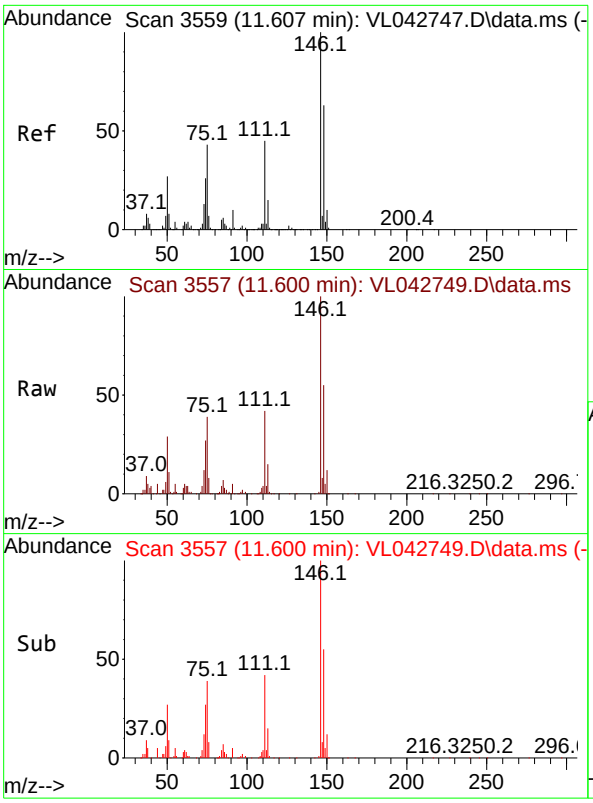


#74
1,2,4-Trimethylbenzene
Concen: 0.994 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 55153

Ion	Ratio	Lower	Upper
105	100		
120	48.0	40.8	61.2
91	65.8	53.0	79.4
77	23.6	20.5	30.7



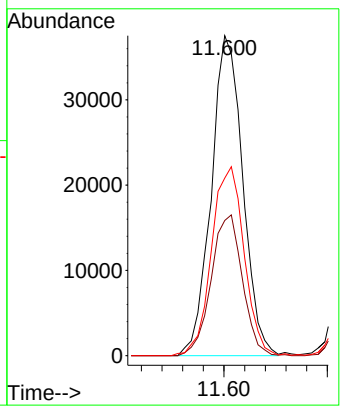


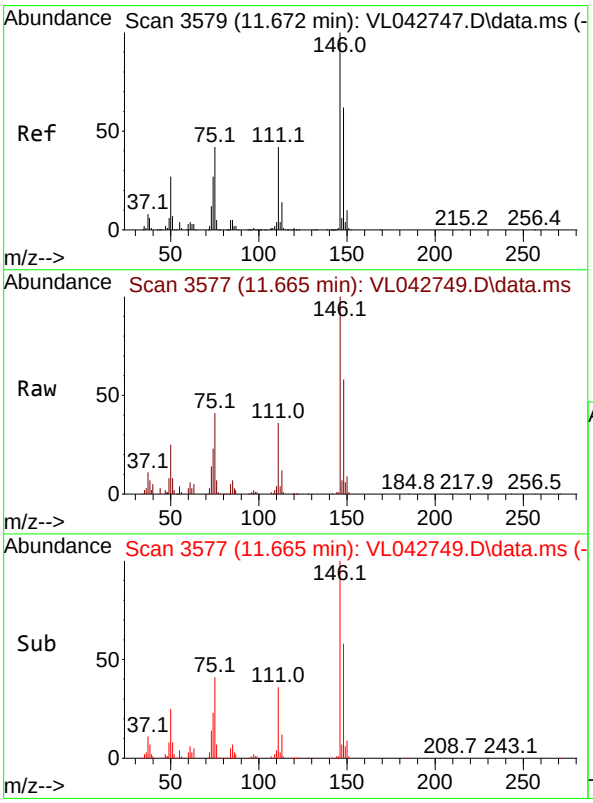
#75
1,3-Dichlorobenzene
Concen: 1.022 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 39753

Ion	Ratio	Lower	Upper
146	100		
111	43.6	22.7	68.0
148	61.0	31.9	95.5

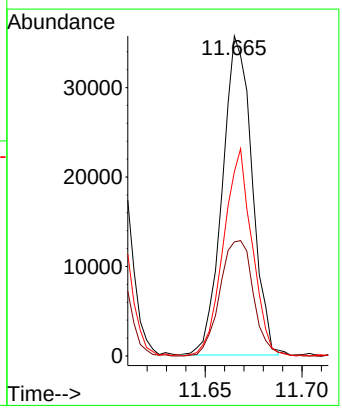


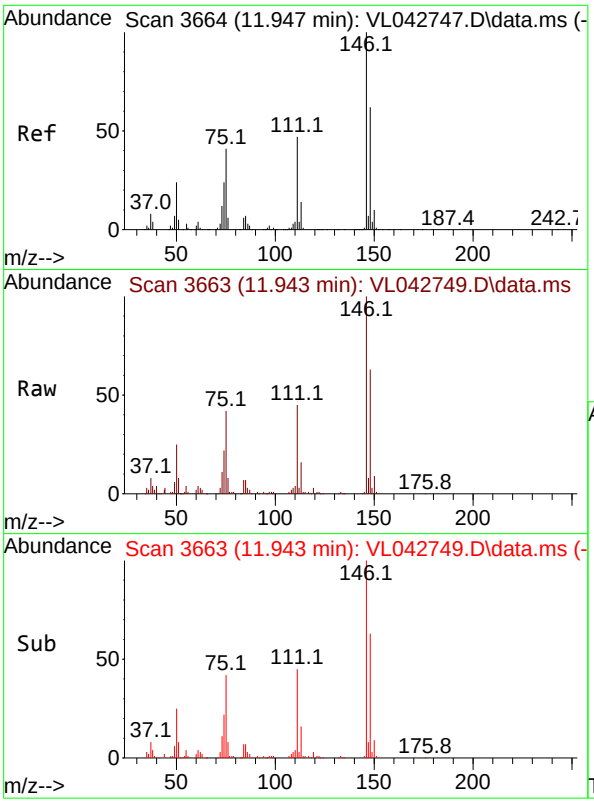


#76
1,4-Dichlorobenzene
Concen: 0.999 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:146 Resp: 38018

Ion	Ratio	Lower	Upper
146	100		
111	40.8	21.4	64.2
148	63.1	32.1	96.3



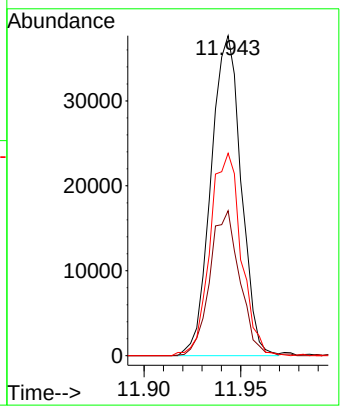


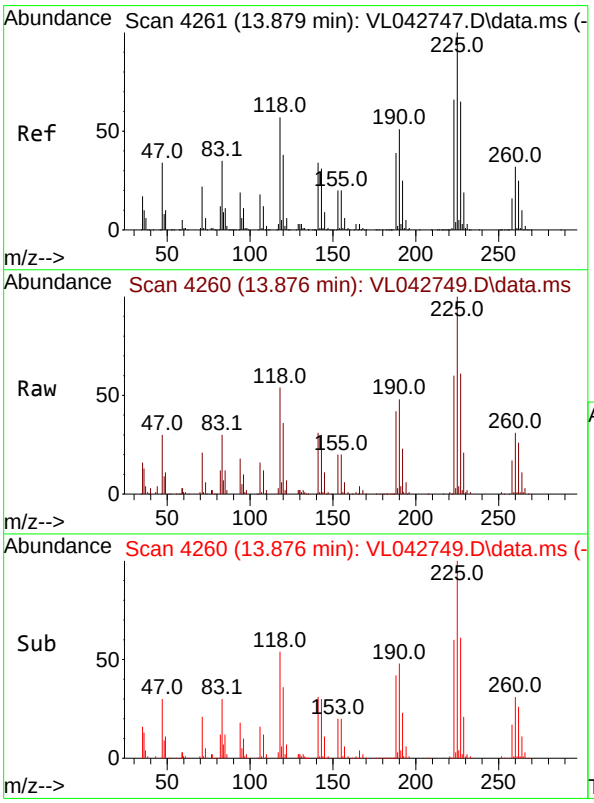
#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 40835

Ion	Ratio	Lower	Upper
146	100		
111	45.3	23.7	71.1
148	65.5	32.6	97.7

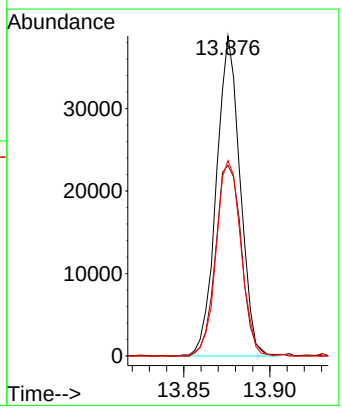


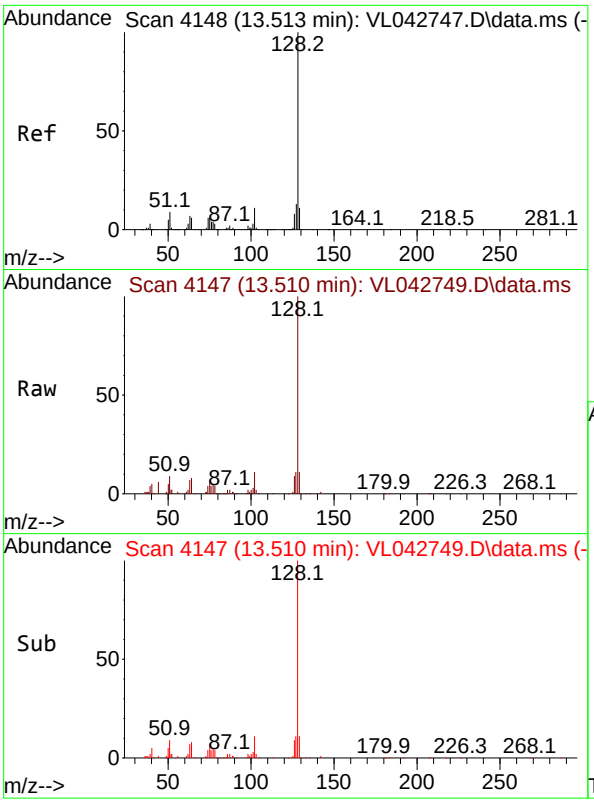


#78
Hexachloro-1,3-Butadiene
Concen: 1.076 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:225 Resp: 37228

Ion	Ratio	Lower	Upper
225	100		
223	65.2	50.7	76.1
227	63.9	50.5	75.7



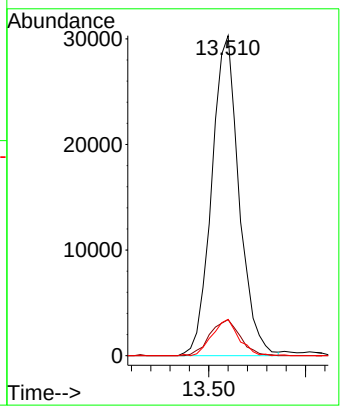


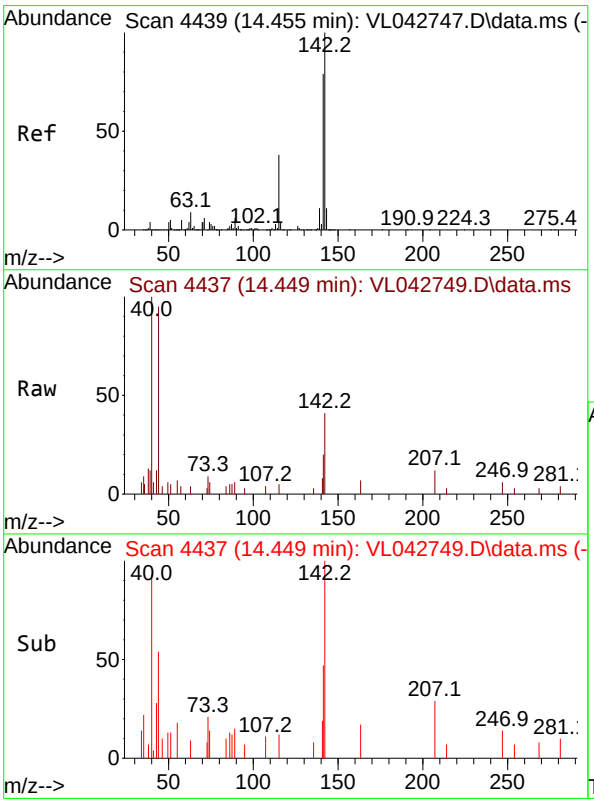
#79
Naphthalene
Concen: 0.907 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 29792

Ion	Ratio	Lower	Upper
128	100		
127	11.3	10.5	15.7
129	11.4	8.6	13.0

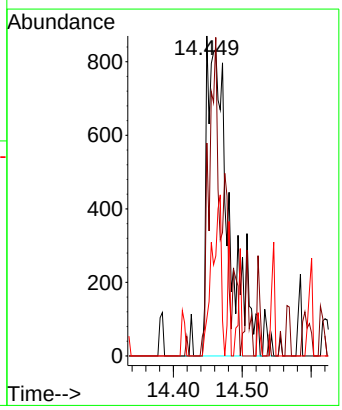


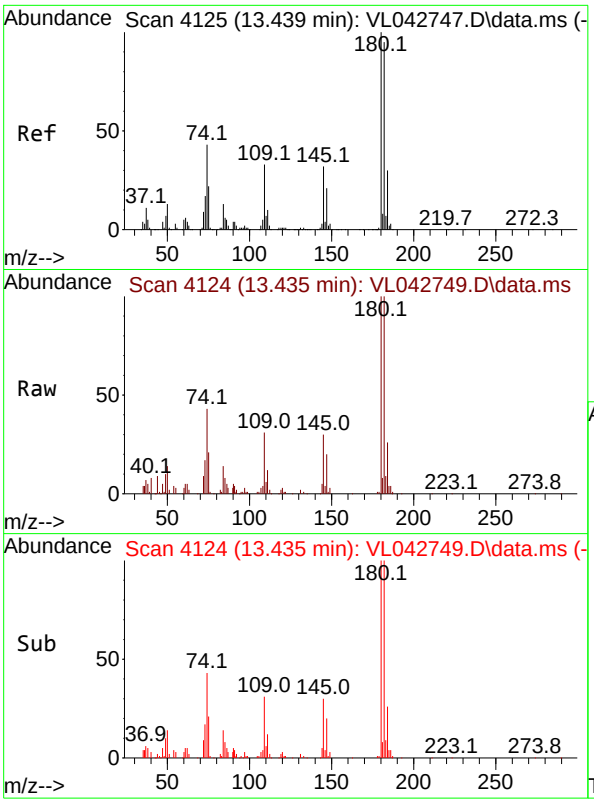


#80
Naphthalene,2-methyl-
Concen: 1.184 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:142 Resp: 1950

Ion	Ratio	Lower	Upper
142	100		
141	63.5	65.8	98.8#
115	25.1	31.2	46.8#



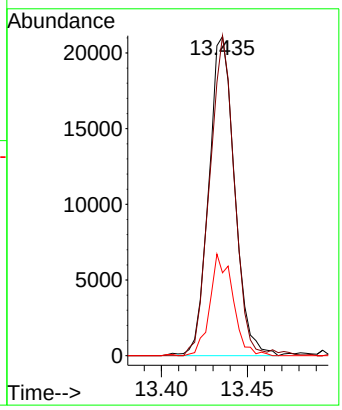


#81
1,2,4-Trichlorobenzene
Concen: 1.053 ppbv
RT: 13.435 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 21929

Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.2	114.2
184	28.7	24.8	37.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042750.D
Acq On : 23 Jul 2025 10:42
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Jul 24 04:58:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	151256	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	446836	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.879	117	408626	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	319353	9.869	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	11099	0.555	ppbv		98
3) Chlorodifluoromethane	1.476	51	14291	0.549	ppbv		97
4) Chloromethane	1.531	50	4428	0.547	ppbv		96
5) Vinyl Chloride	1.580	62	3902	0.488	ppbv		97
6) Bromomethane	1.667	94	1717	0.556	ppbv	#	38
7) Chloroethane	1.703	64	2102	0.681	ppbv		97
8) Dichlorotetrafluoroethane	1.554	85	8971	0.545	ppbv		97
9) Propene	1.483	41	4695	0.496	ppbv	#	77
10) Heptane	4.978	43	9190	0.361	ppbv	#	66
11) Trichlorofluoromethane	1.878	101	11021	0.535	ppbv		90
12) 1,1,2-Trichlorotrifluo...	2.137	101	8430	0.538	ppbv		98
13) Ethanol	1.719	45	781	0.087	ppbv	#	1
14) Bromoethene	1.781	108	2971	0.536	ppbv	#	92
15) Acetone	1.836	43	14012	0.671	ppbv	#	88
16) 1,3-Butadiene	1.609	39	5488	0.616	ppbv		100
17) tert-Butyl alcohol	2.040	59	10333	0.549	ppbv	#	77
18) 1,1-Dichloroethene	2.033	96	4051	0.572	ppbv		77
19) Isopropyl Alcohol	1.888	45	6478	0.584	ppbv	#	81
20) Methylene Chloride	2.059	84	4500	0.684	ppbv		82
21) Allyl Chloride	2.098	41	6829	0.531	ppbv	#	80
22) trans-1,2-Dichloroethene	2.341	96	4186	0.551	ppbv		88
23) Vinyl Acetate	2.460	43	12423	0.491	ppbv	#	76
24) 1,1-Dichloroethane	2.405	63	7962	0.509	ppbv	#	91
25) Ethyl Acetate	2.836	43	23632	0.511	ppbv		97
26) Hexane	2.823	57	10019	0.494	ppbv		90
27) Carbon Disulfide	2.150	76	8670	0.499	ppbv	#	1
28) Methyl tert-Butyl Ether	2.441	73	4937	0.515	ppbv	#	79
29) Chloroform	2.849	83	17100	0.546	ppbv	#	82
30) Cyclohexane	3.855	84	8596	0.500	ppbv		89
31) cis-1,2-Dichloroethene	2.723	61	11032	0.529	ppbv		99
32) 1,1,1-Trichloroethane	3.367	97	16132	0.494	ppbv		97
34) 2-Butanone	2.557	43	16299	0.515	ppbv		94
35) Carbon Tetrachloride	3.761	117	15207	0.458	ppbv		90
36) Benzene	3.651	78	21800	0.515	ppbv		96
37) 1,2-Dichloroethane	3.215	62	13299	0.521	ppbv	#	95
38) Trichloroethene	4.548	130	9150	0.448	ppbv		89
39) 1,2-Dichloropropane	4.312	63	8291	0.530	ppbv	#	90
40) 1,4-Dioxane	4.593	88	1378	0.187	ppbv	#	21
41) Tetrahydrofuran	3.056	42	4590	0.289	ppbv	#	42
42) Bromodichloromethane	4.487	83	10591	0.318	ppbv	#	95
43) Methyl Methacrylate	4.881	69	5938	0.394	ppbv	#	79
44) 2,2,4-Trimethylpentane	4.639	57	33853	0.490	ppbv		93
45) t-1,3-Dichloropropene	6.412	75	5781	0.342	ppbv		92

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042750.D
Acq On : 23 Jul 2025 10:42
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Jul 24 04:58:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

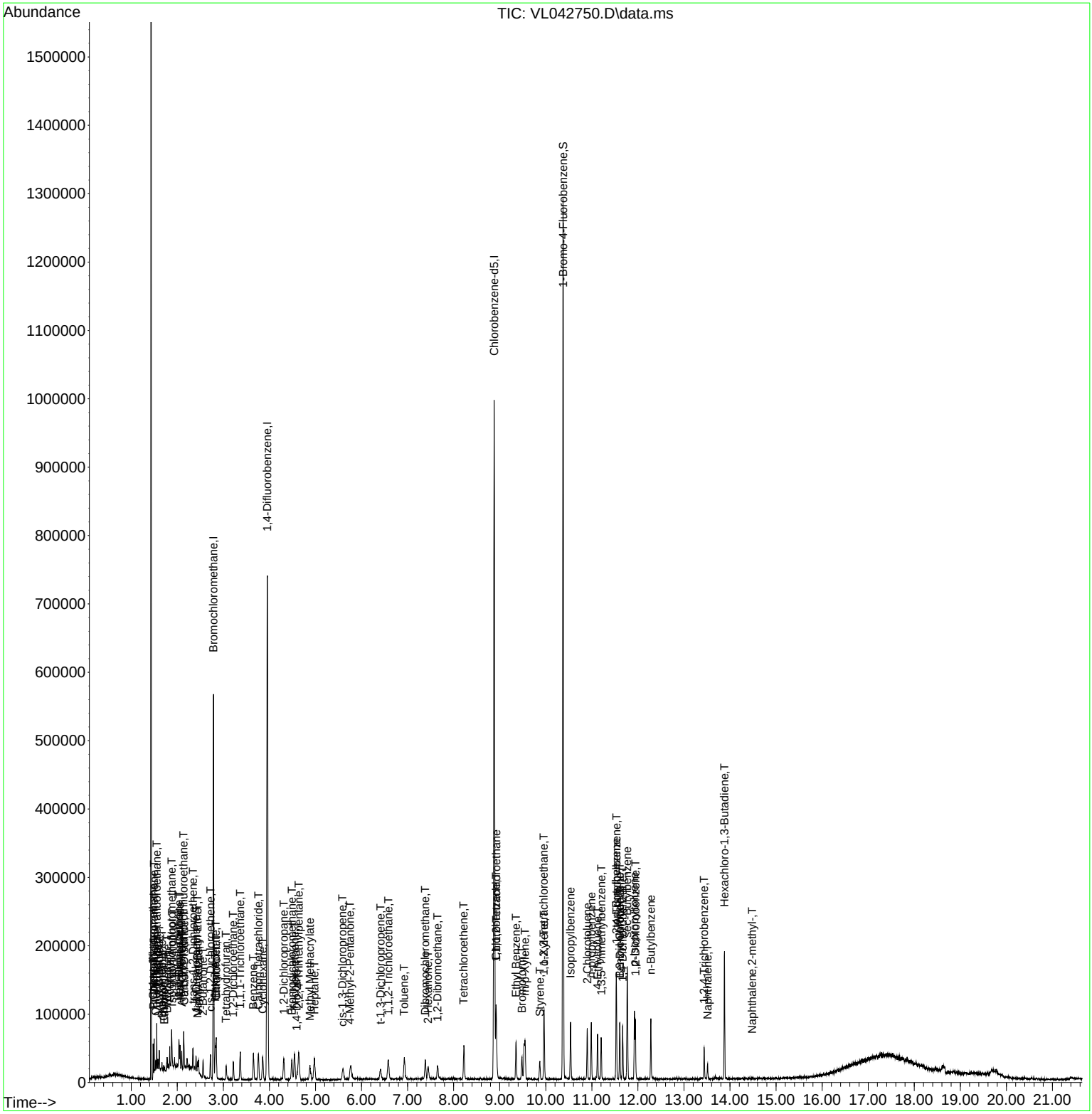
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	3465	0.162	ppbv		90
47) 1,1,2-Trichloroethane	6.584	97	4878	0.293	ppbv	#	88
48) Dibromochloromethane	7.383	129	8515	0.322	ppbv	#	49
49) Bromoform	9.481	173	10801	0.468	ppbv		97
50) 4-Methyl-2-Pentanone	5.752	43	5736	0.142	ppbv	#	40
51) 2-Hexanone	7.442	43	6572	0.213	ppbv	#	30
52) Tetrachloroethene	8.218	164	8359	0.475	ppbv	#	81
53) Toluene	6.924	91	21324	0.469	ppbv		95
54) 1,2-Dibromoethane	7.649	107	6536	0.277	ppbv		82
56) 1,1,1,2-Tetrachloroethane	8.924	131	11191	0.527	ppbv	#	1
57) Chlorobenzene	8.921	112	20828	0.527	ppbv	#	84
58) Ethyl Benzene	9.354	91	29134	0.451	ppbv		96
59) m/p-Xylene	9.549	91	17145	0.332	ppbv	#	1
60) o-Xylene	9.963	91	23603	0.458	ppbv		100
61) Styrene	9.872	104	9195	0.424	ppbv		97
62) Isopropylbenzene	10.539	105	35189	0.463	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.956	83	15544	0.463	ppbv		99
64) n-propylbenzene	10.989	120	8924	0.450	ppbv		99
65) tert-Butylbenzene	11.529	119	30560	0.453	ppbv		95
66) Benzyl Chloride	11.607	91	845	0.152	ppbv	#	28
67) sec-Butylbenzene	11.766	105	44169	0.460	ppbv		100
69) p-Isopropyltoluene	11.924	119	33104	0.423	ppbv		99
70) n-Butylbenzene	12.280	91	29048	0.384	ppbv		99
71) 2-Chlorotoluene	10.902	91	27184	0.466	ppbv		97
72) 4-Ethyltoluene	11.125	105	26395	0.429	ppbv	#	95
73) 1,3,5-Trimethylbenzene	11.206	105	22392	0.442	ppbv	#	85
74) 1,2,4-Trimethylbenzene	11.536	105	22772	0.412	ppbv		96
75) 1,3-Dichlorobenzene	11.607	146	18680	0.482	ppbv		96
76) 1,4-Dichlorobenzene	11.669	146	17616	0.465	ppbv		97
77) 1,2-Dichlorobenzene	11.947	146	18799	0.494	ppbv		98
78) Hexachloro-1,3-Butadiene	13.879	225	18330	0.532	ppbv		99
79) Naphthalene	13.514	128	9916	0.592	ppbv		97
80) Naphthalene,2-methyl-	14.481	142	731	1.148	ppbv	#	61
81) 1,2,4-Trichlorobenzene	13.436	180	7453	0.645	ppbv		95

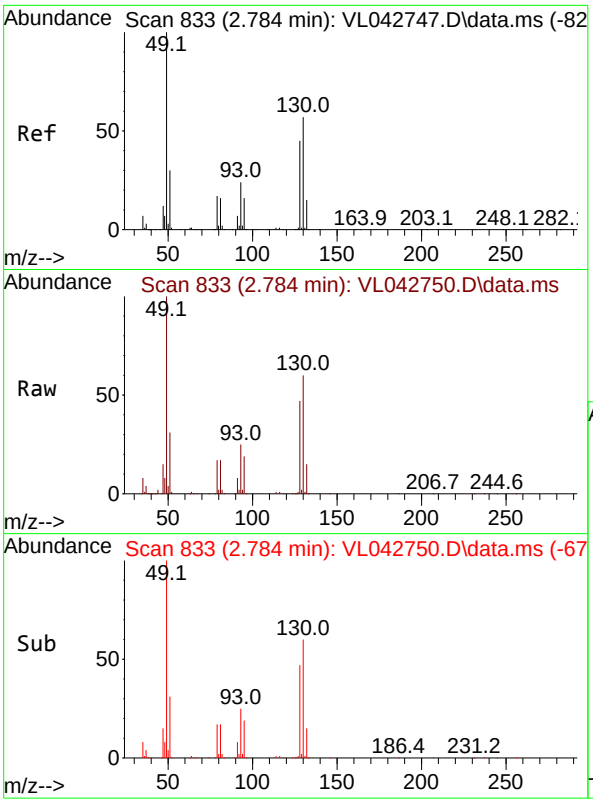
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042750.D
Acq On : 23 Jul 2025 10:42
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Jul 24 04:58:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration



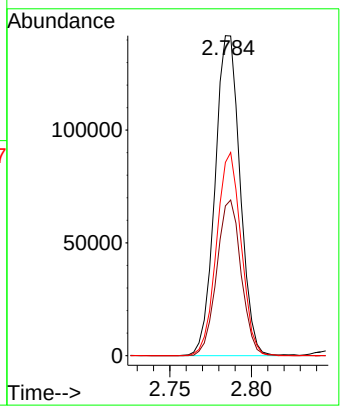


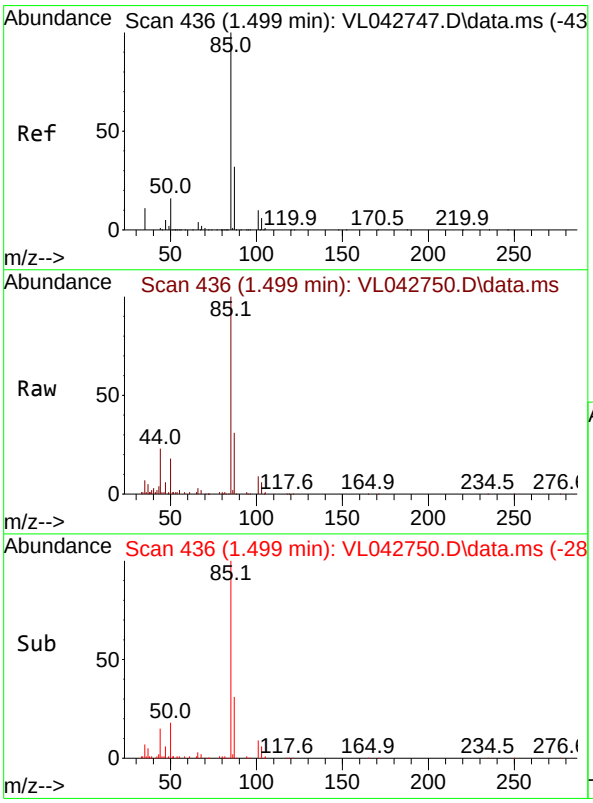
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 49 Resp: 151256

Ion	Ratio	Lower	Upper
49	100		
128	47.4	23.6	71.0
130	62.2	30.3	90.8

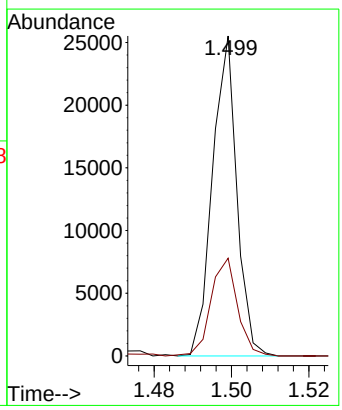


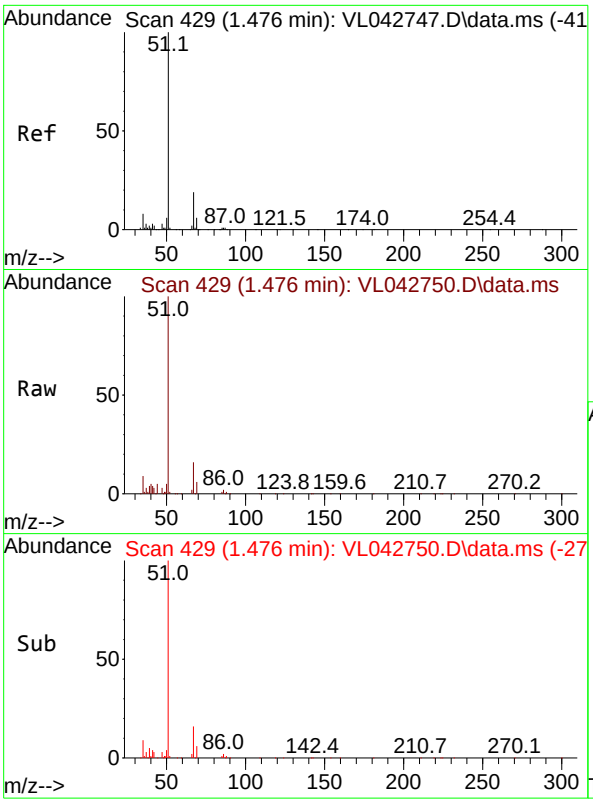


#2
Dichlorodifluoromethane
Concen: 0.555 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 85 Resp: 11099

Ion	Ratio	Lower	Upper
85	100		
87	30.6	25.4	38.2



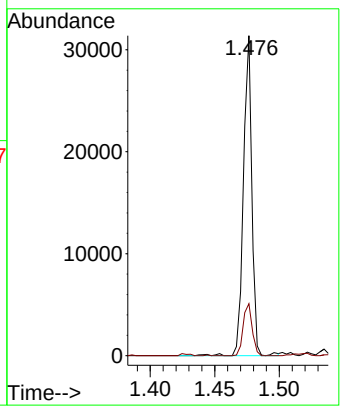


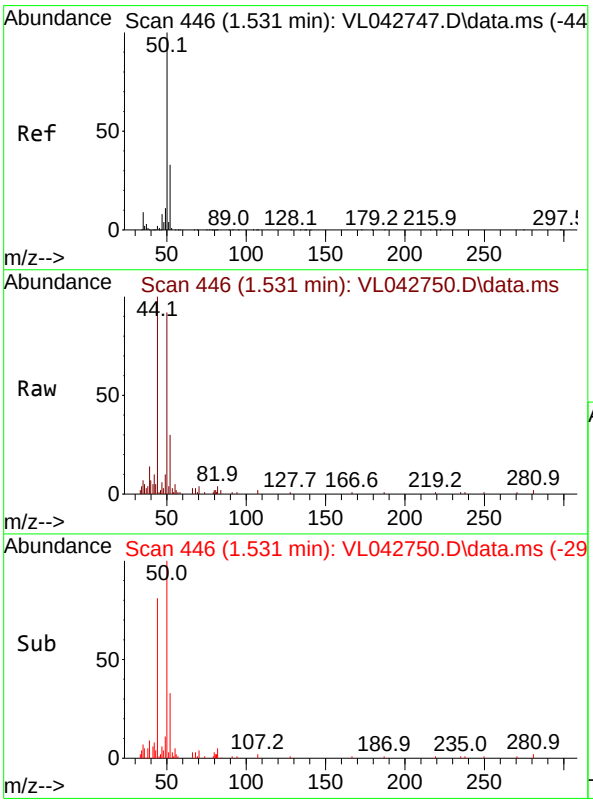
#3
Chlorodifluoromethane
Concen: 0.549 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 51 Resp: 14291

Ion	Ratio	Lower	Upper
51	100		
67	17.4	15.0	22.6

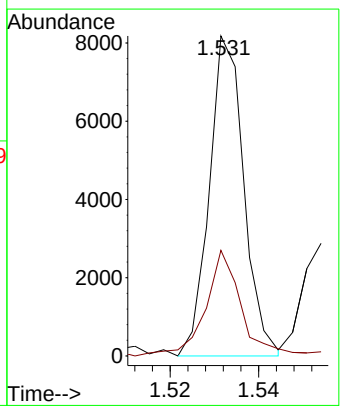


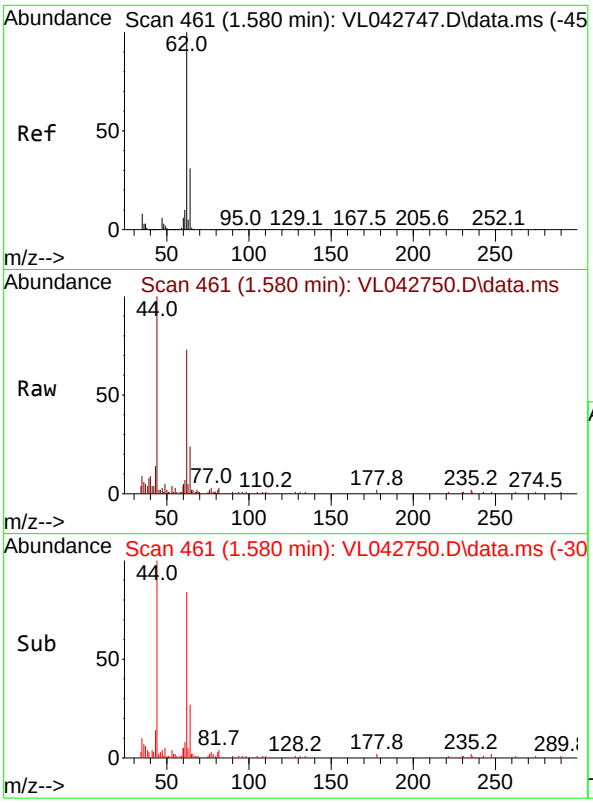


#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 50 Resp: 4428

Ion	Ratio	Lower	Upper
50	100		
52	30.8	26.6	40.0



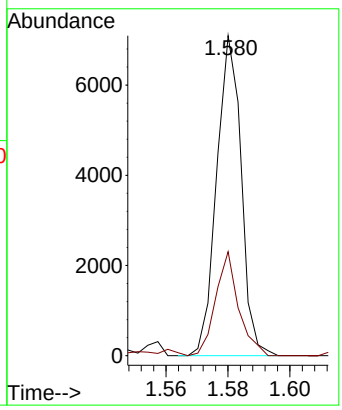


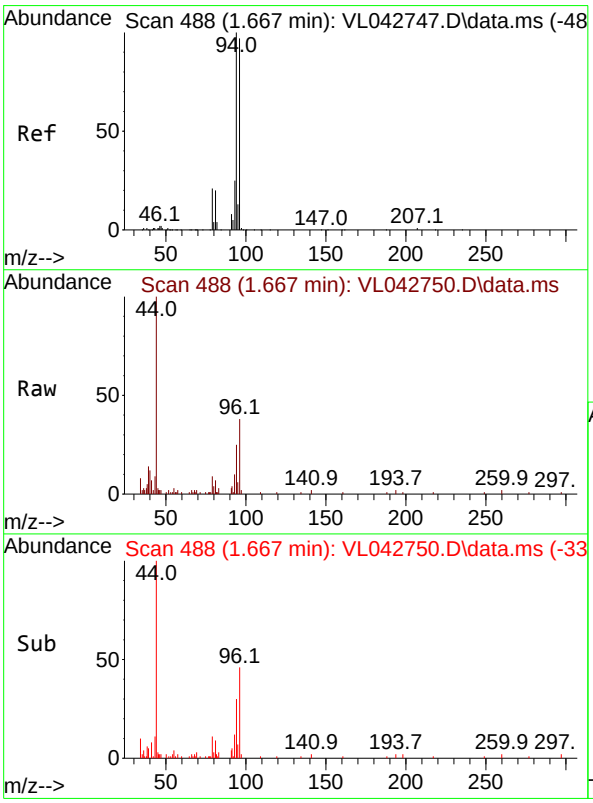
#5
Vinyl Chloride
Concen: 0.488 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 3902

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.5	36.7

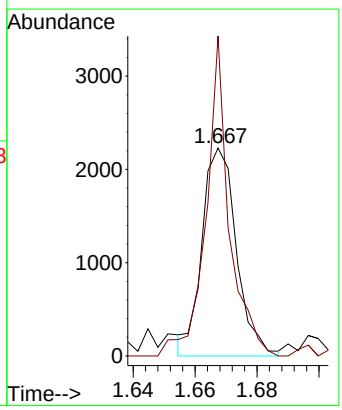


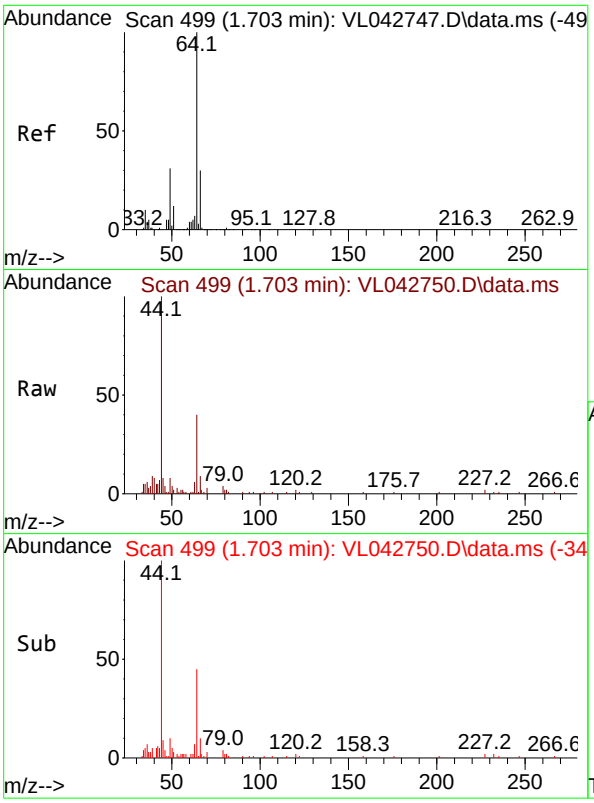


#6
Bromomethane
Concen: 0.556 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 94 Resp: 1717

Ion	Ratio	Lower	Upper
94	100		
96	157.5	77.6	116.4#



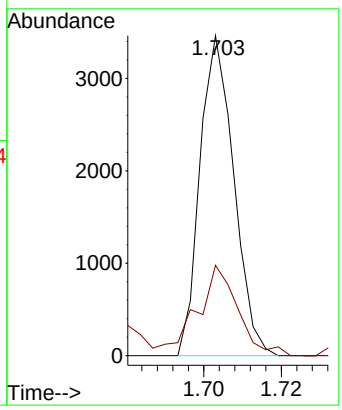


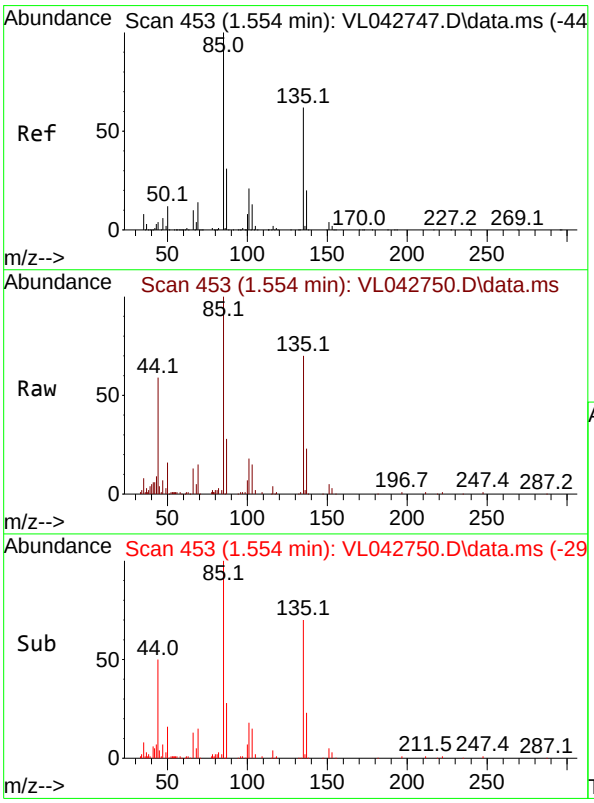
#7
Chloroethane
Concen: 0.681 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 64 Resp: 2102

Ion	Ratio	Lower	Upper
64	100		
66	28.3	24.1	36.1

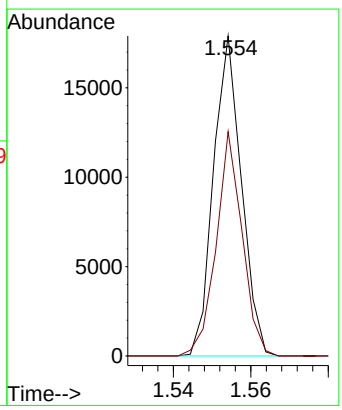


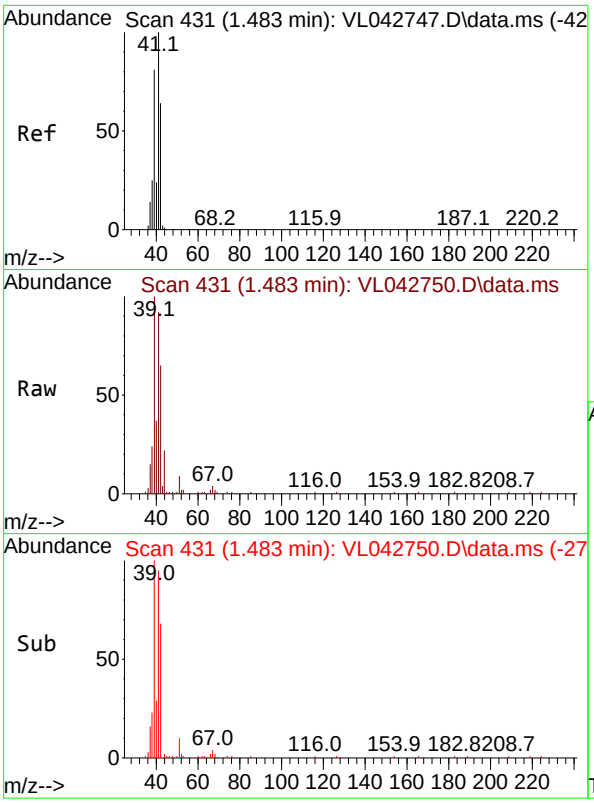


#8
Dichlorotetrafluoroethane
Concen: 0.545 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 85 Resp: 8971

Ion	Ratio	Lower	Upper
85	100		
135	65.3	50.6	76.0



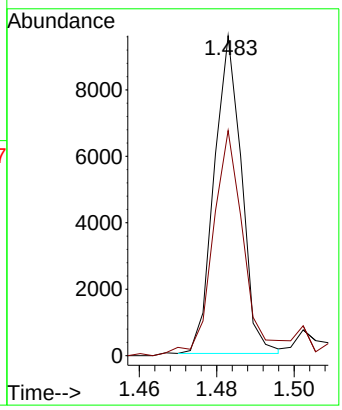


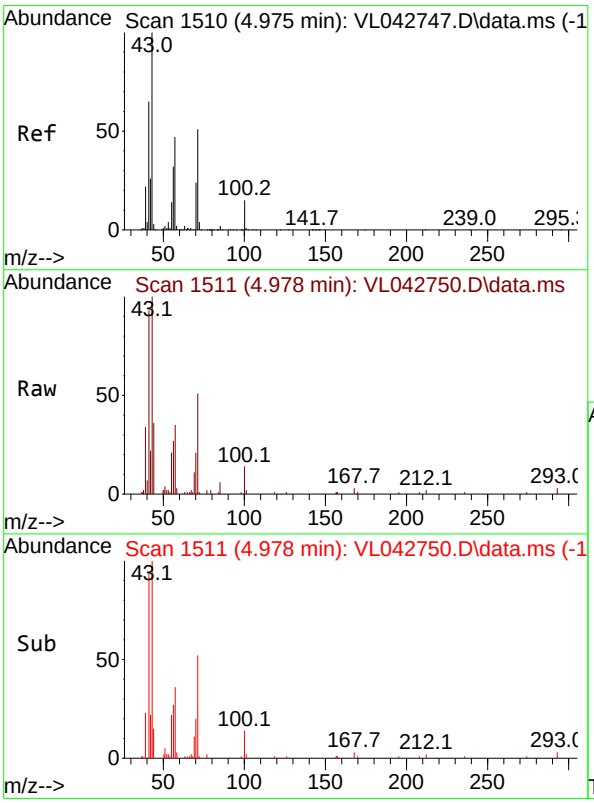
#9
Propene
Concen: 0.496 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 4695

Ion	Ratio	Lower	Upper
41	100		
42	84.9	53.2	79.8#

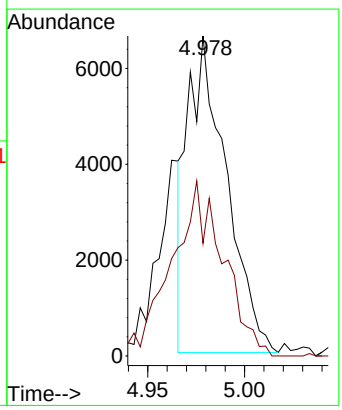


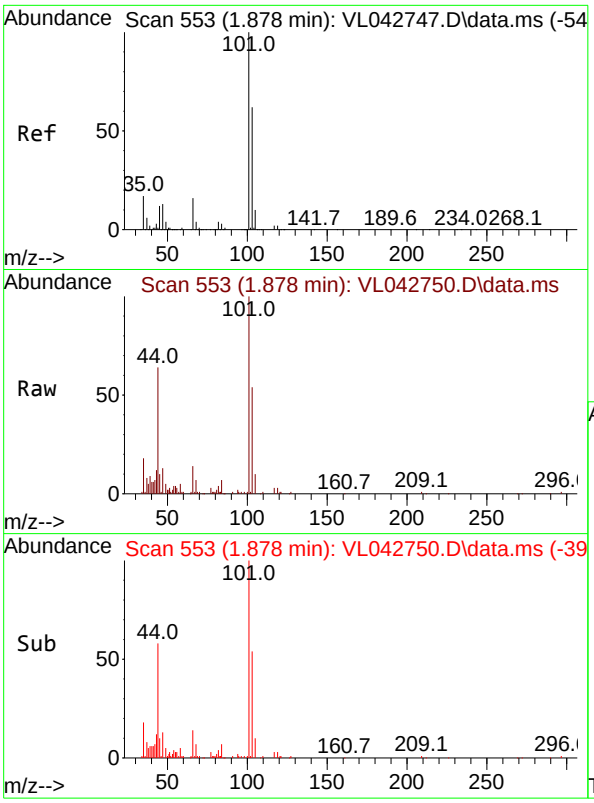


#10
Heptane
Concen: 0.361 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 43 Resp: 9190

Ion	Ratio	Lower	Upper
43	100		
57	73.4	39.9	59.9#



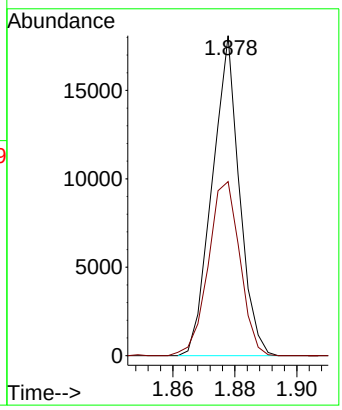


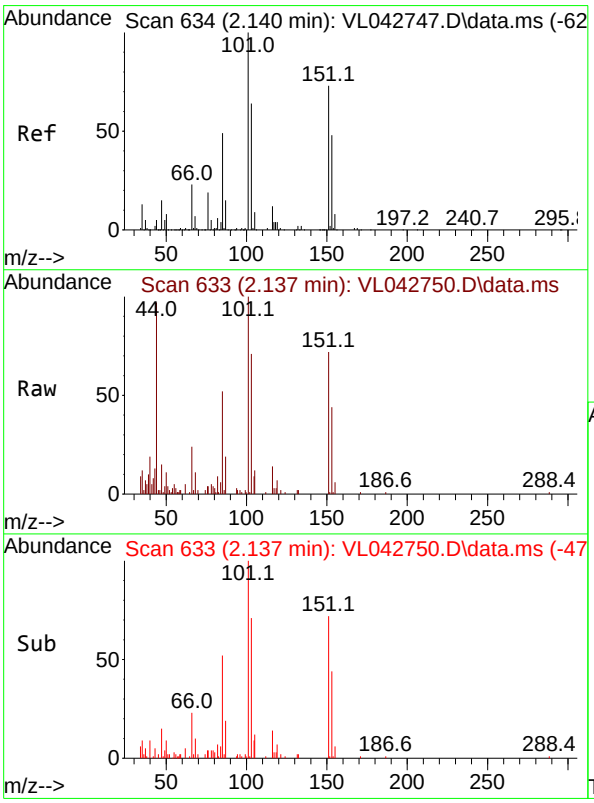
#11
Trichlorofluoromethane
Concen: 0.535 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:101 Resp: 11021

Ion	Ratio	Lower	Upper
101	100		
103	54.4	49.6	74.4

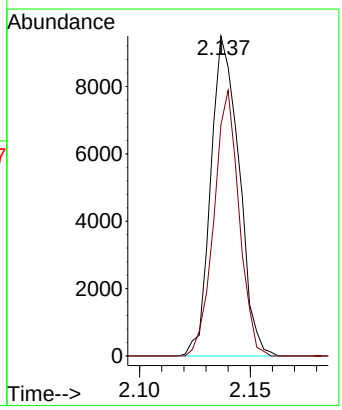


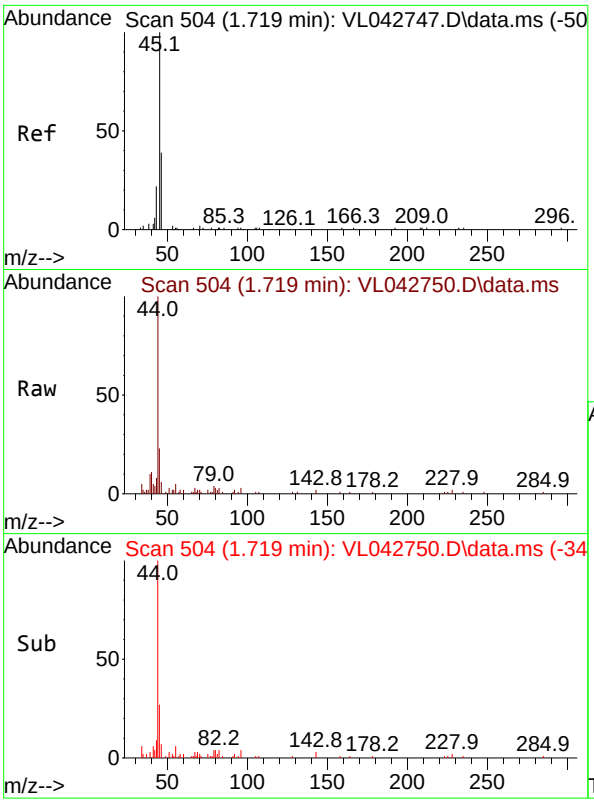


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.538 ppbv
RT: 2.137 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:101 Resp: 8430

Ion	Ratio	Lower	Upper
101	100		
151	74.0	60.5	90.7



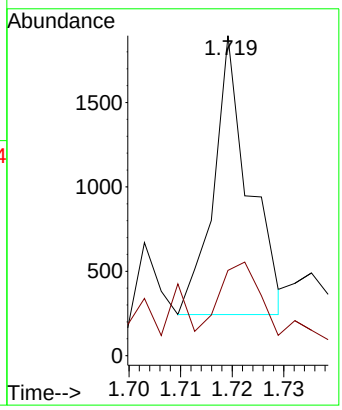


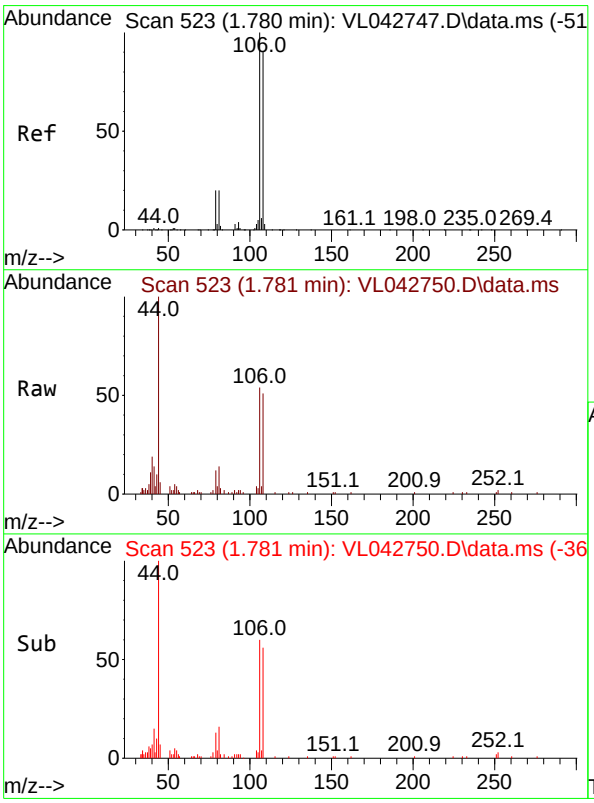
#13
Ethanol
Concen: 0.087 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 781

Ion	Ratio	Lower	Upper
45	100		
46	110.8	17.8	71.4#

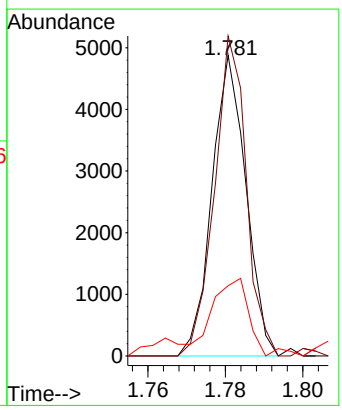


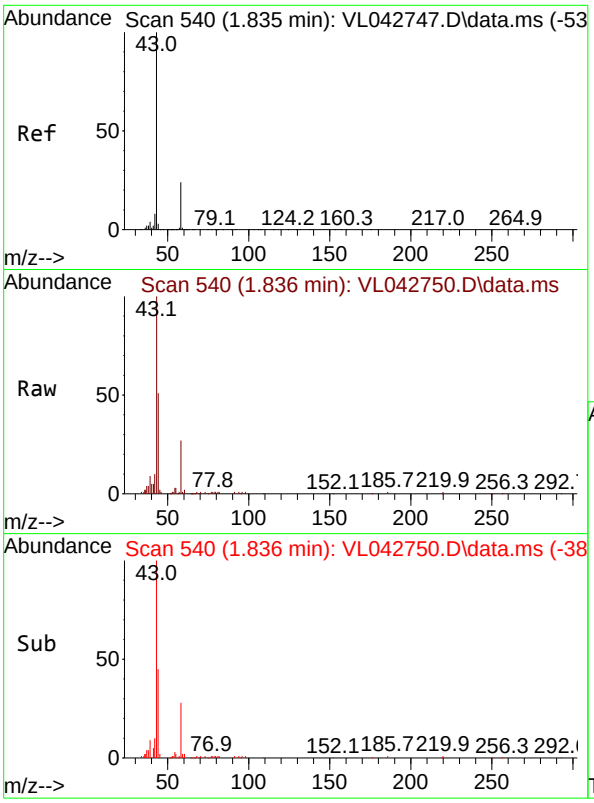


#14
Bromoethene
Concen: 0.536 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:108 Resp: 2971

Ion	Ratio	Lower	Upper
108	100		
106	102.0	84.7	127.1
79	35.4	17.4	26.2#



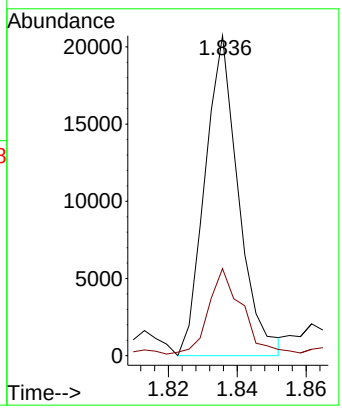


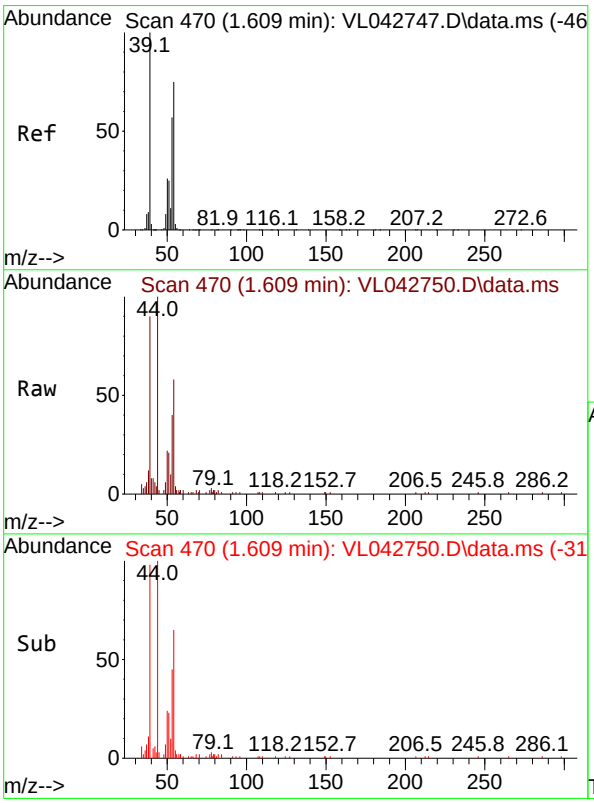
#15
Acetone
Concen: 0.671 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 14012

Ion	Ratio	Lower	Upper
43	100		
58	30.8	19.8	29.8#

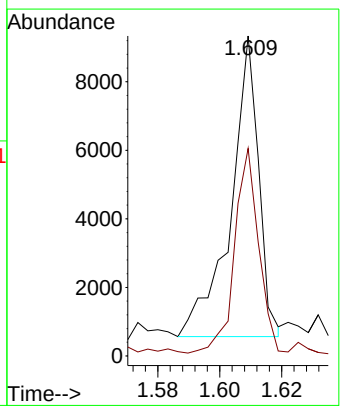


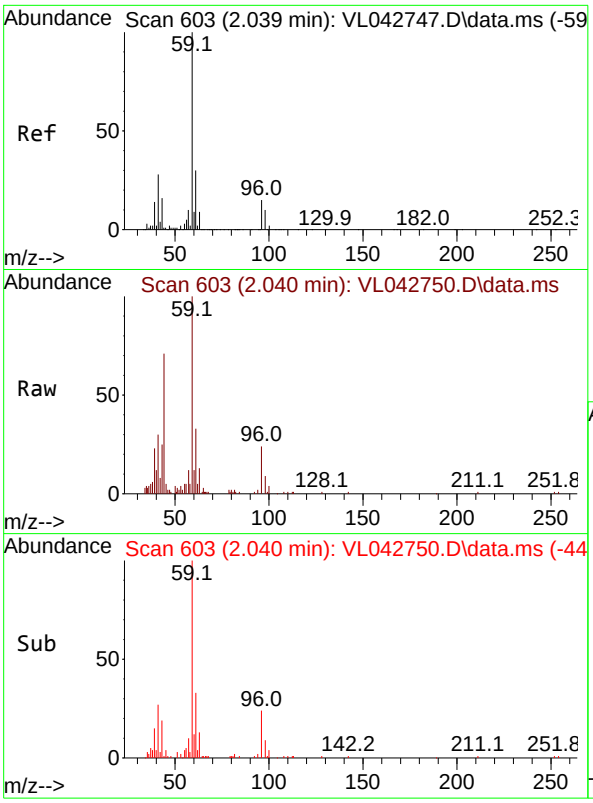


#16
1,3-Butadiene
Concen: 0.616 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 39 Resp: 5488

Ion	Ratio	Lower	Upper
39	100		
54	67.8	54.5	81.7



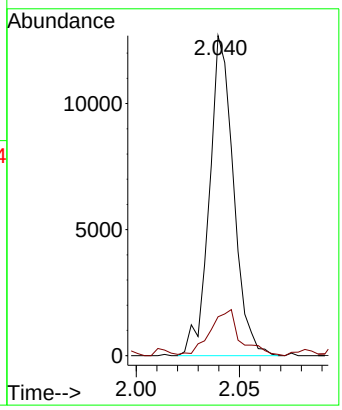


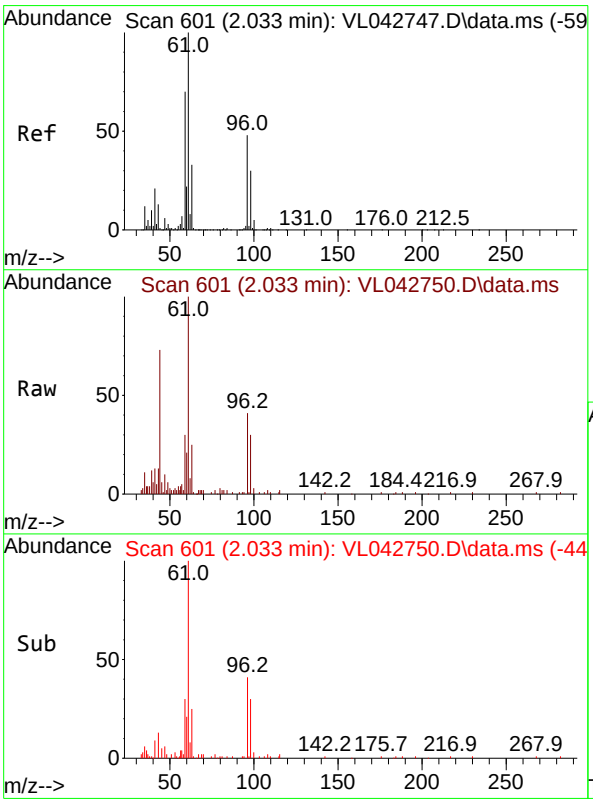
#17
tert-Butyl alcohol
Concen: 0.549 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 59 Resp: 10333

Ion	Ratio	Lower	Upper
59	100		
57	19.1	8.3	12.5#

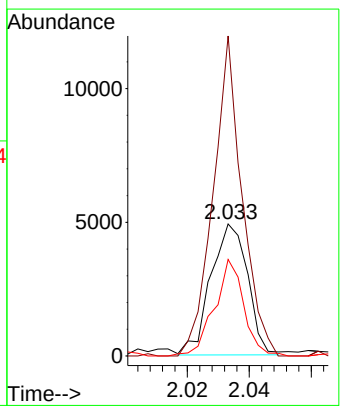


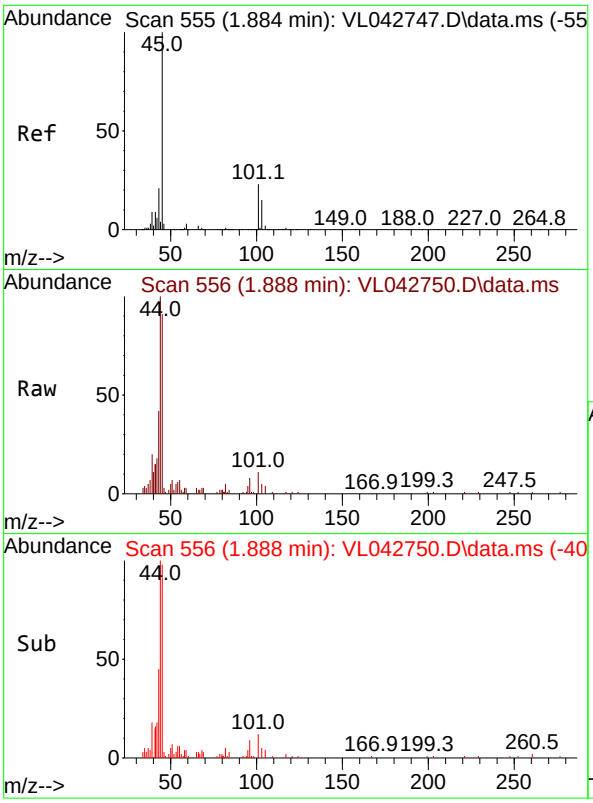


#18
1,1-Dichloroethene
Concen: 0.572 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 96 Resp: 4051

Ion	Ratio	Lower	Upper
96	100		
61	246.6	165.8	248.6
98	72.7	49.9	74.9



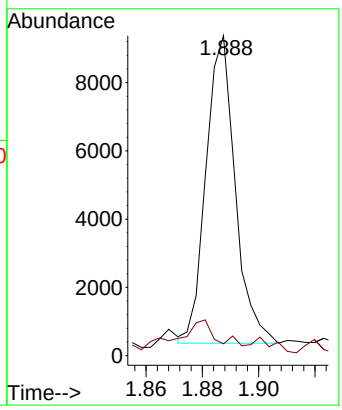


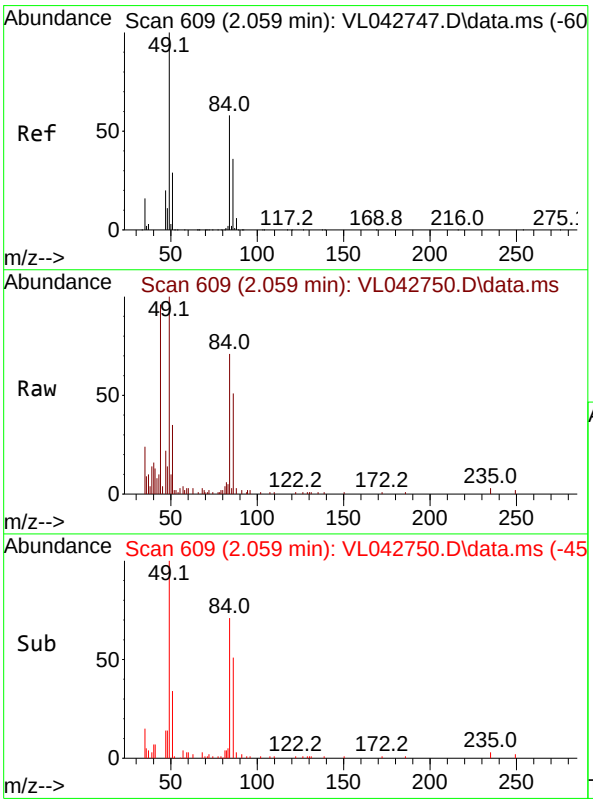
#19
Isopropyl Alcohol
Concen: 0.584 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 6478

Ion	Ratio	Lower	Upper
45	100		
58	25.9	30.0	45.0#

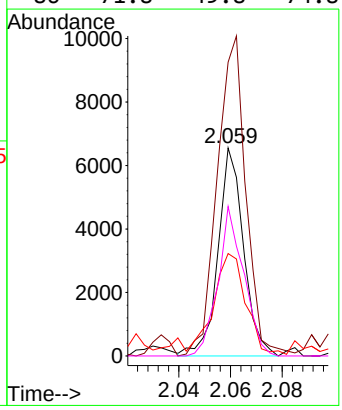


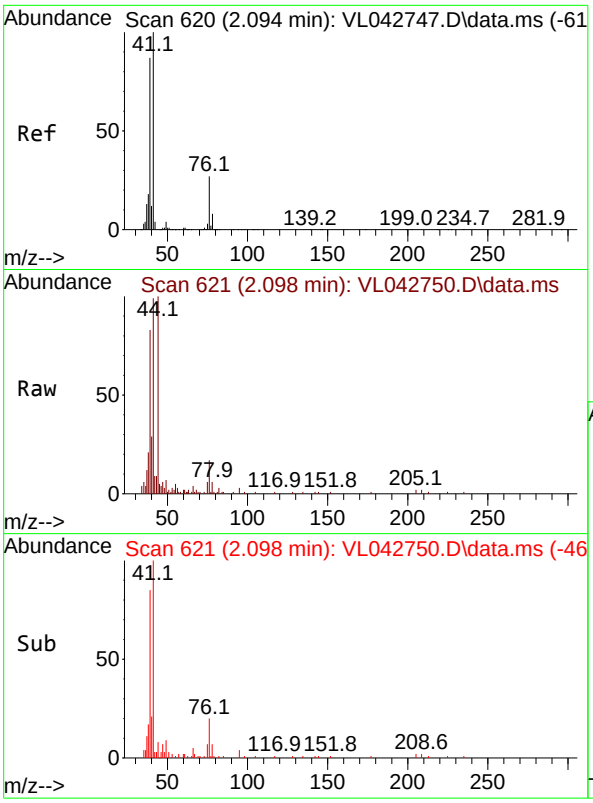


#20
Methylene Chloride
Concen: 0.684 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 84 Resp: 4500

Ion	Ratio	Lower	Upper
84	100		
49	141.2	138.6	208.0
51	46.8	40.6	61.0
86	71.8	49.8	74.8



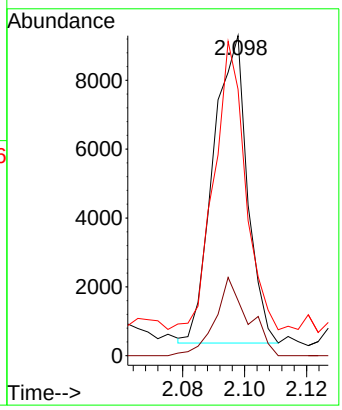


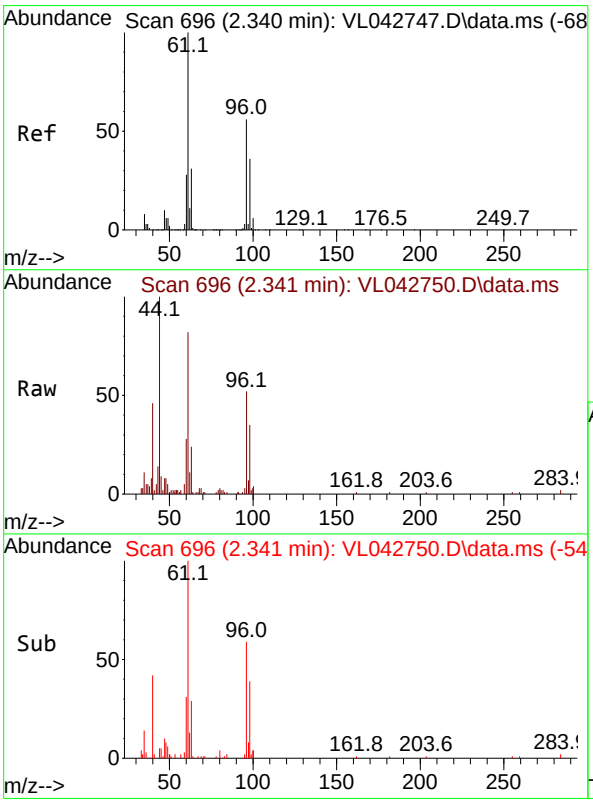
#21
Allyl Chloride
Concen: 0.531 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 6829

Ion	Ratio	Lower	Upper
41	100		
76	24.4	21.1	31.7
39	108.8	68.3	102.5#

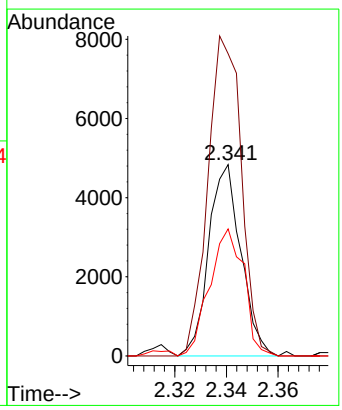


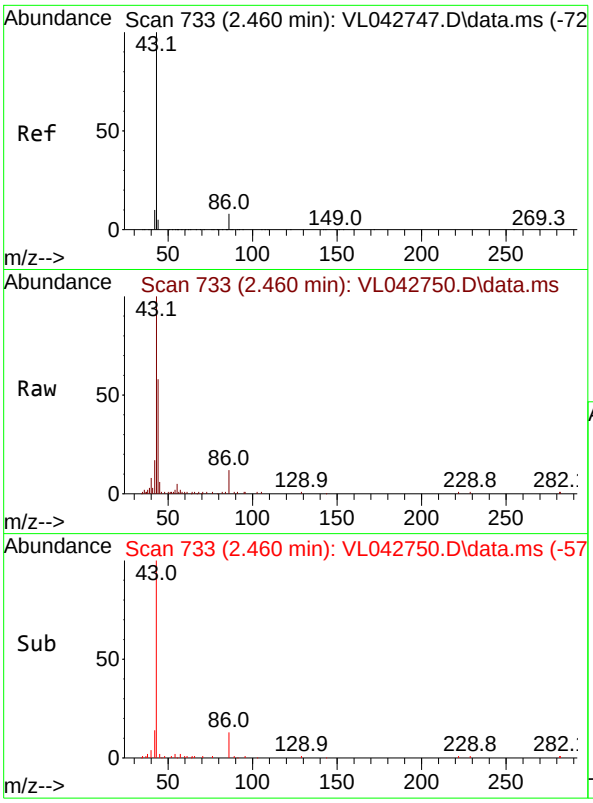


#22
trans-1,2-Dichloroethene
Concen: 0.551 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 96 Resp: 4186

Ion	Ratio	Lower	Upper
96	100		
61	157.9	142.3	213.5
98	66.4	50.6	76.0



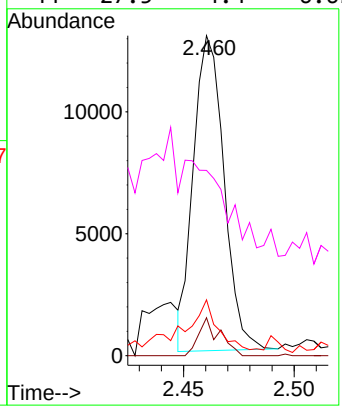


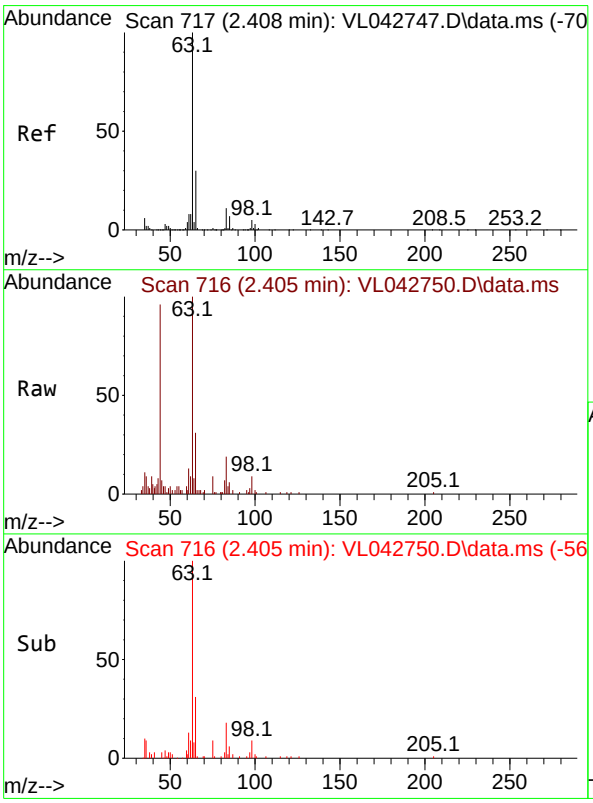
#23
Vinyl Acetate
Concen: 0.491 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 12423

Ion	Ratio	Lower	Upper
43	100		
86	12.1	6.1	9.1#
42	13.5	7.8	11.8#
44	27.5	4.4	6.6#

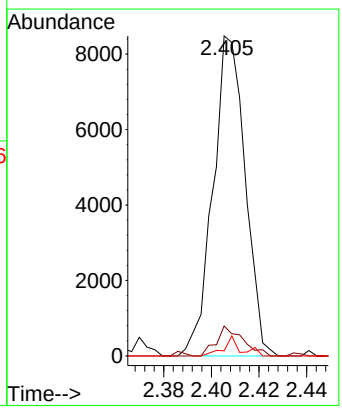


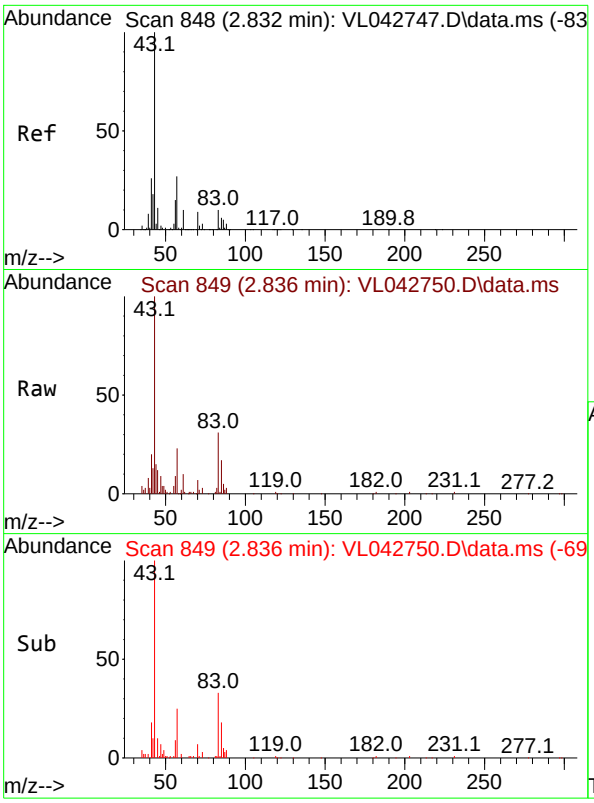


#24
1,1-Dichloroethane
Concen: 0.509 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 63 Resp: 7962

Ion	Ratio	Lower	Upper
63	100		
98	9.4	2.5	7.4#
100	2.8	1.6	4.8



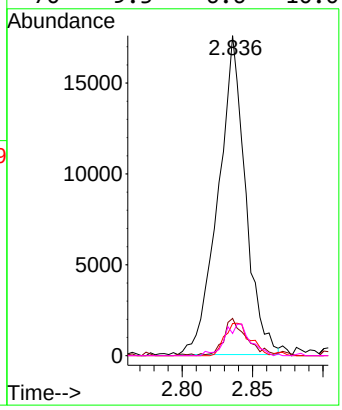


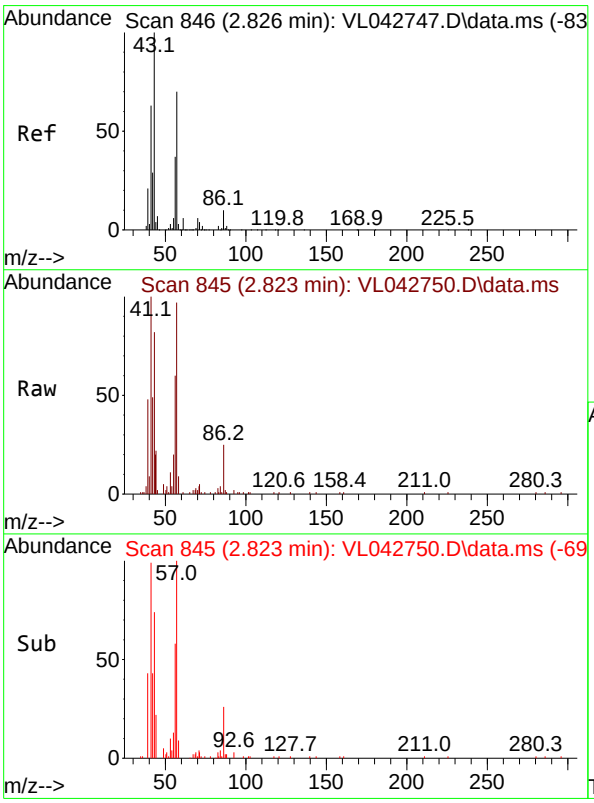
#25
Ethyl Acetate
Concen: 0.511 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 23632

Ion	Ratio	Lower	Upper
43	100		
45	10.4	7.8	11.6
61	9.8	6.7	10.1
70	9.3	6.6	10.0

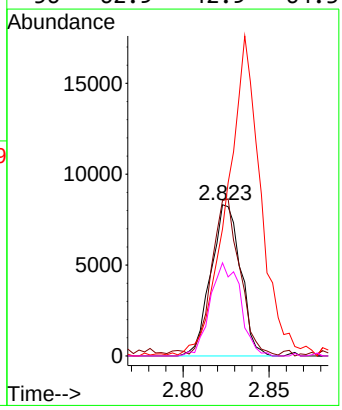


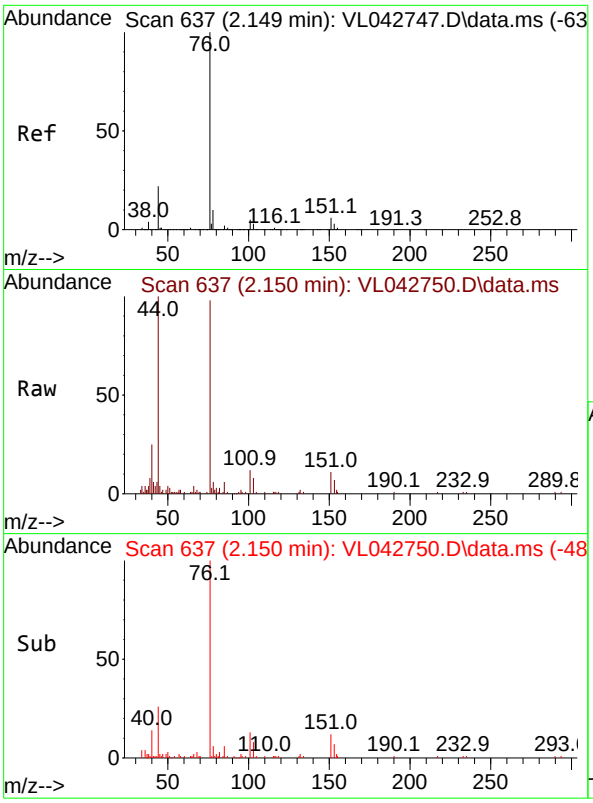


#26
Hexane
Concen: 0.494 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 57 Resp: 10019

Ion	Ratio	Lower	Upper
57	100		
41	107.1	75.4	113.2
43	244.9	185.0	277.6
56	62.9	42.9	64.3



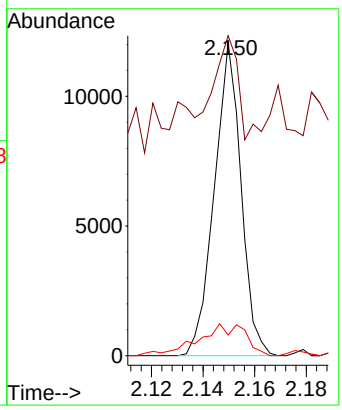


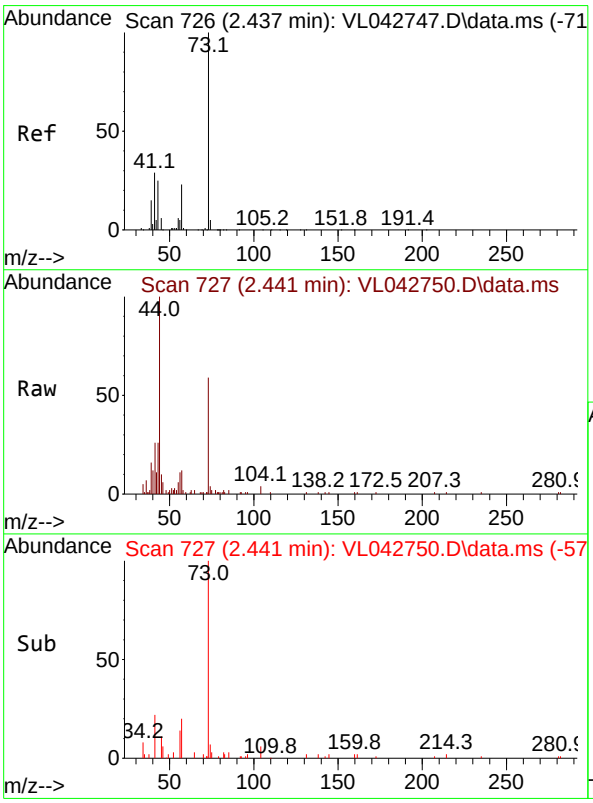
#27
Carbon Disulfide
Concen: 0.499 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 76 Resp: 8670

Ion	Ratio	Lower	Upper
76	100		
44	203.7	19.3	28.9#
78	19.1	9.9	14.9#

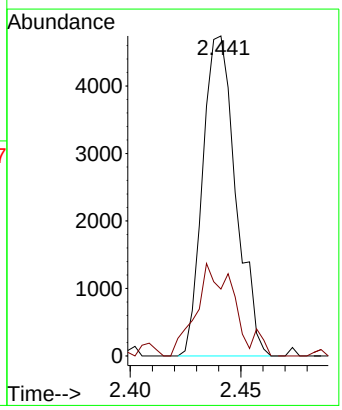


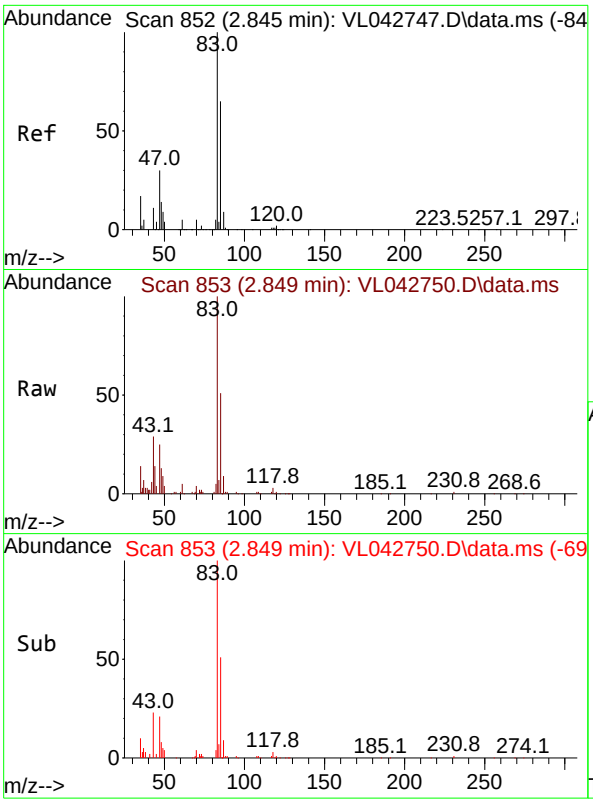


#28
Methyl tert-Butyl Ether
Concen: 0.515 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 73 Resp: 4937

Ion	Ratio	Lower	Upper
73	100		
57	35.2	19.8	29.8#



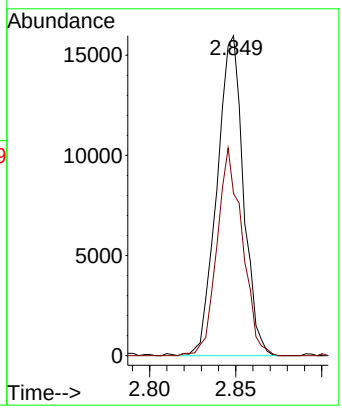


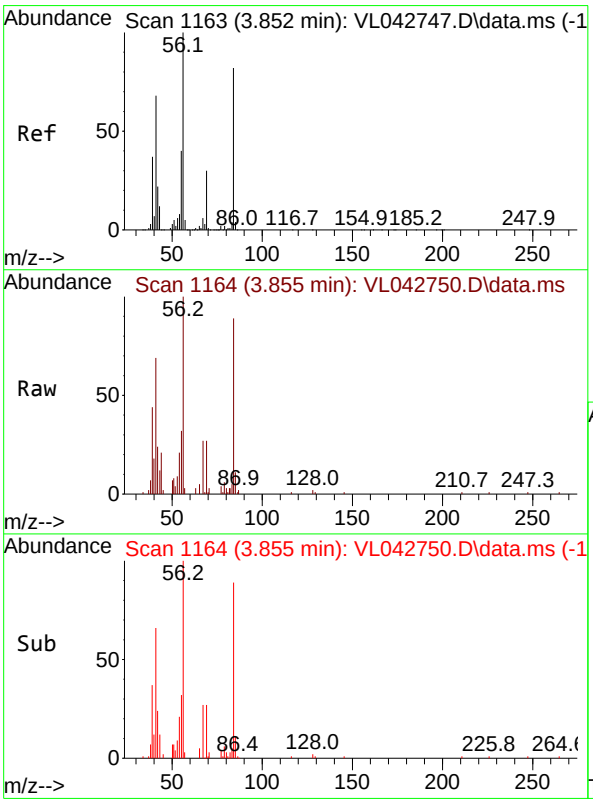
#29
Chloroform
Concen: 0.546 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 17100

Ion	Ratio	Lower	Upper
83	100		
85	50.7	52.2	78.2#

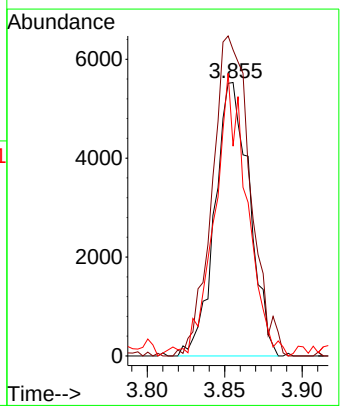


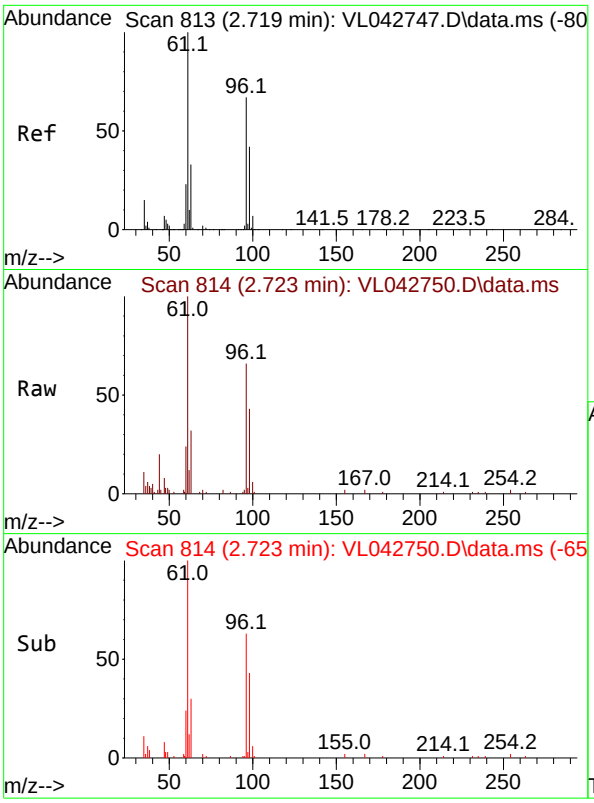


#30
Cyclohexane
Concen: 0.500 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 84 Resp: 8596

Ion	Ratio	Lower	Upper
84	100		
56	129.6	97.5	146.3
41	98.8	67.2	100.8



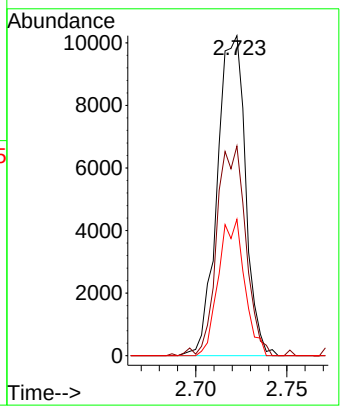


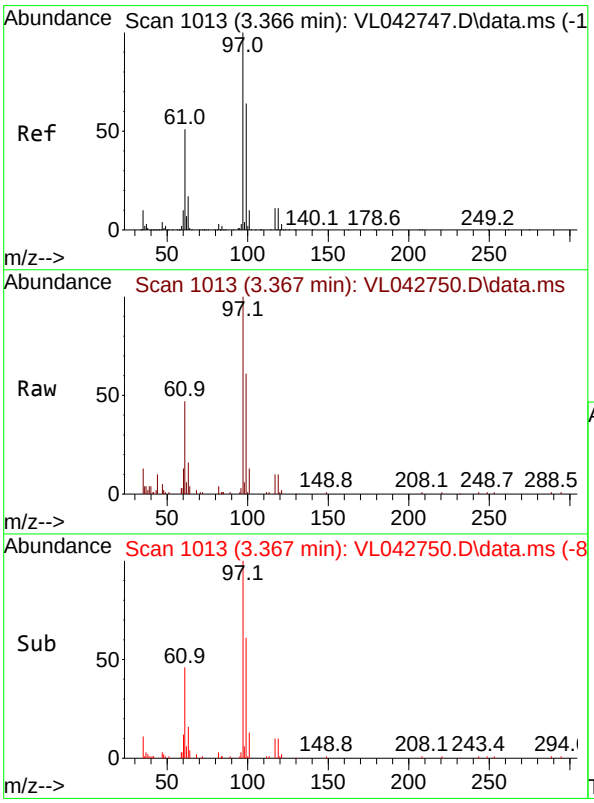
#31
cis-1,2-Dichloroethene
Concen: 0.529 ppbv
RT: 2.723 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 61 Resp: 11032

Ion	Ratio	Lower	Upper
61	100		
96	65.5	53.5	80.3
98	42.6	33.6	50.4

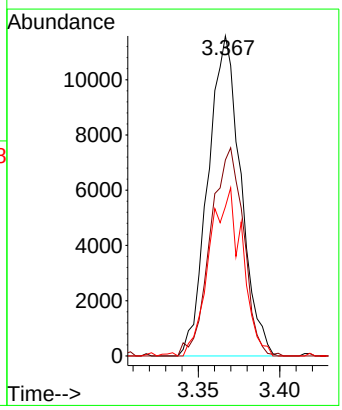


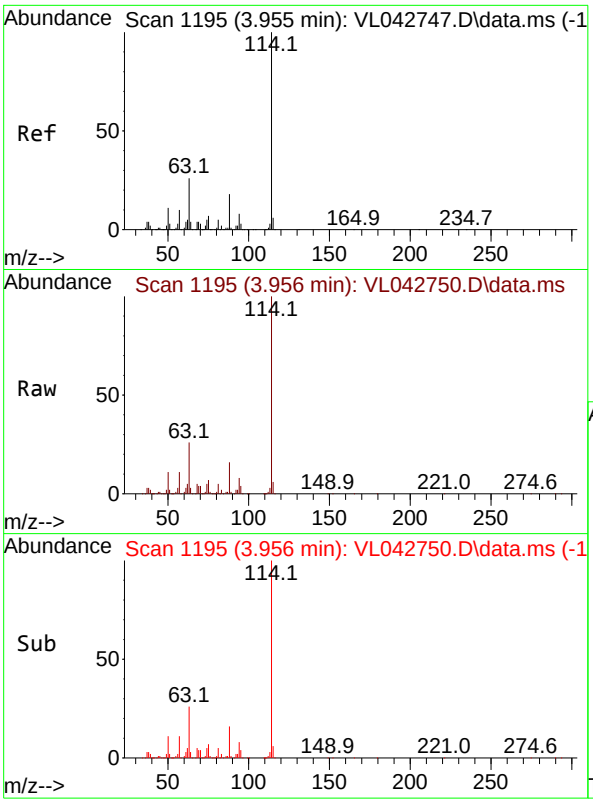


#32
1,1,1-Trichloroethane
Concen: 0.494 ppbv
RT: 3.367 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 97 Resp: 16132

Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.0	76.6
61	53.8	40.9	61.3



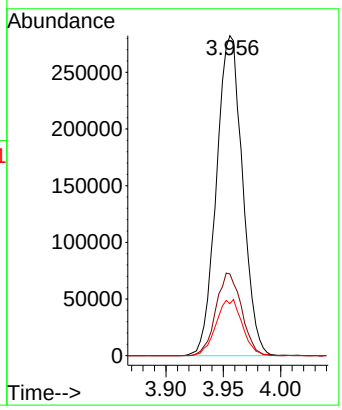


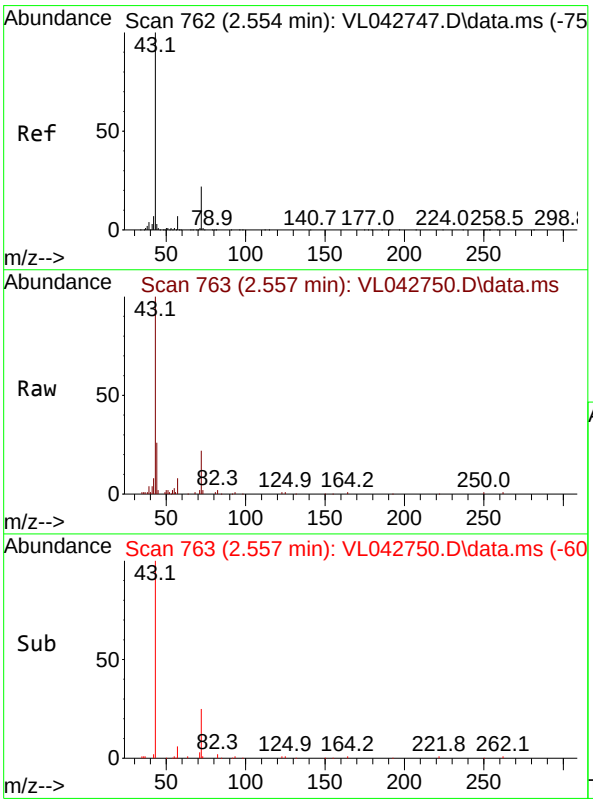
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:114 Resp: 446836

Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.5	30.7
88	17.7	14.0	21.0

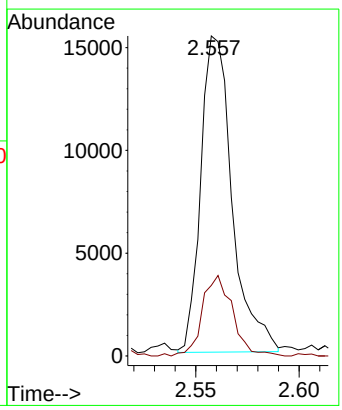


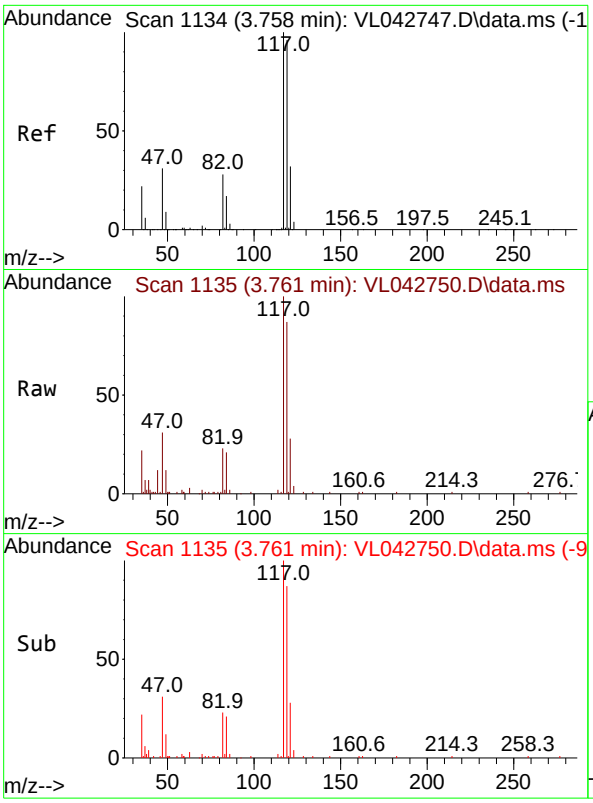


#34
2-Butanone
Concen: 0.515 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 43 Resp: 16299

Ion	Ratio	Lower	Upper
43	100		
72	24.6	17.4	26.0



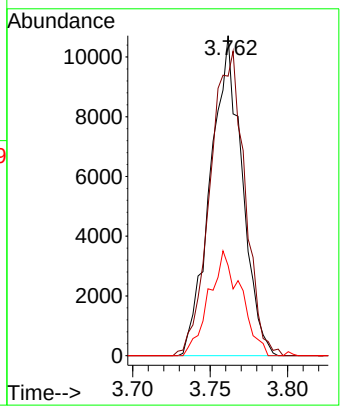


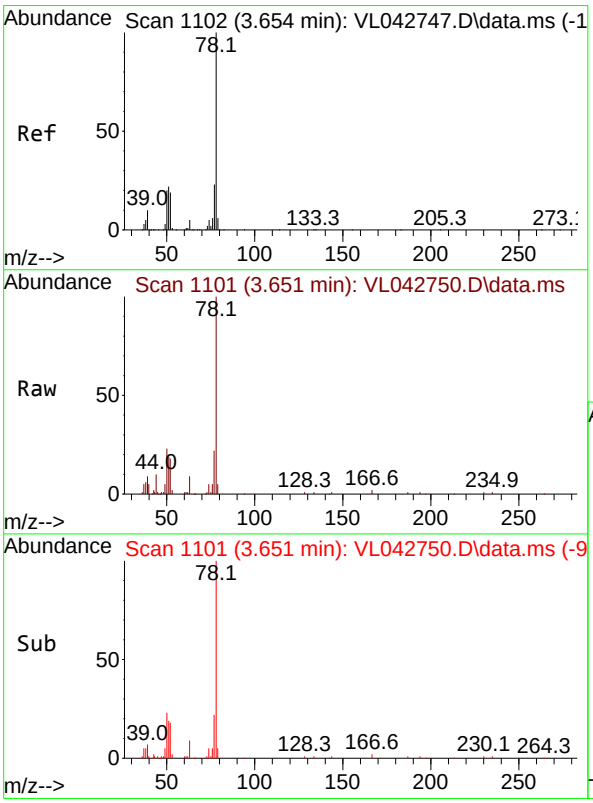
#35
Carbon Tetrachloride
Concen: 0.458 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:117 Resp: 15207

Ion	Ratio	Lower	Upper
117	100		
119	86.0	77.1	115.7
121	28.2	25.5	38.3

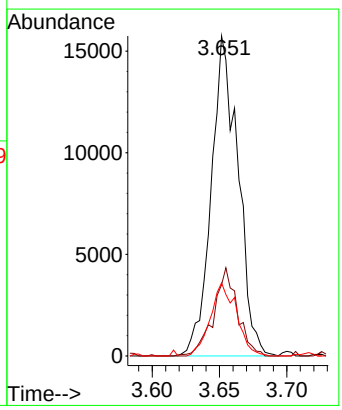


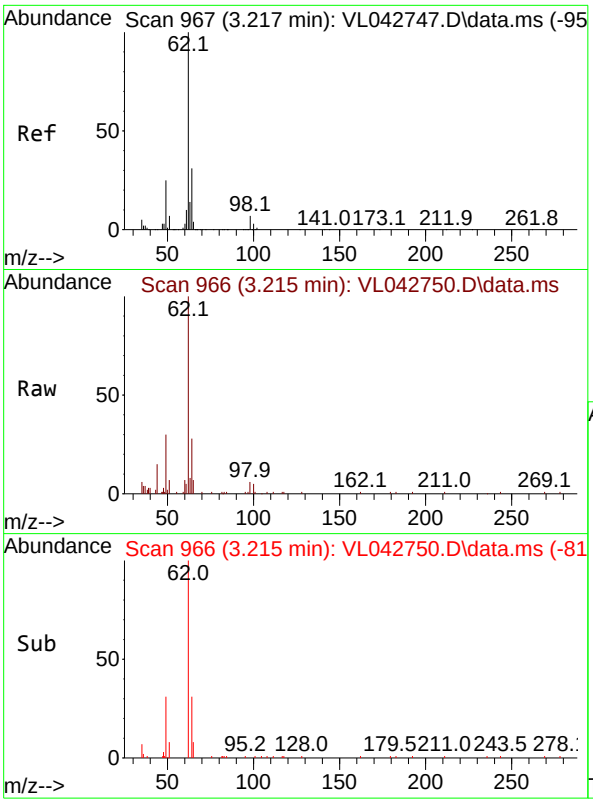


#36
Benzene
Concen: 0.515 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 78 Resp: 21800

Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.5	27.7
50	22.8	16.2	24.2



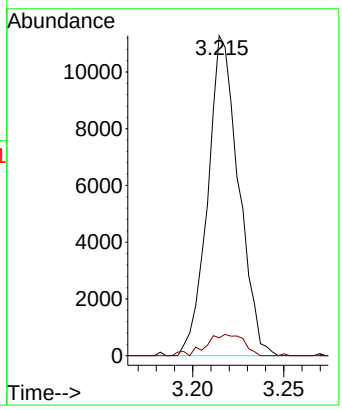


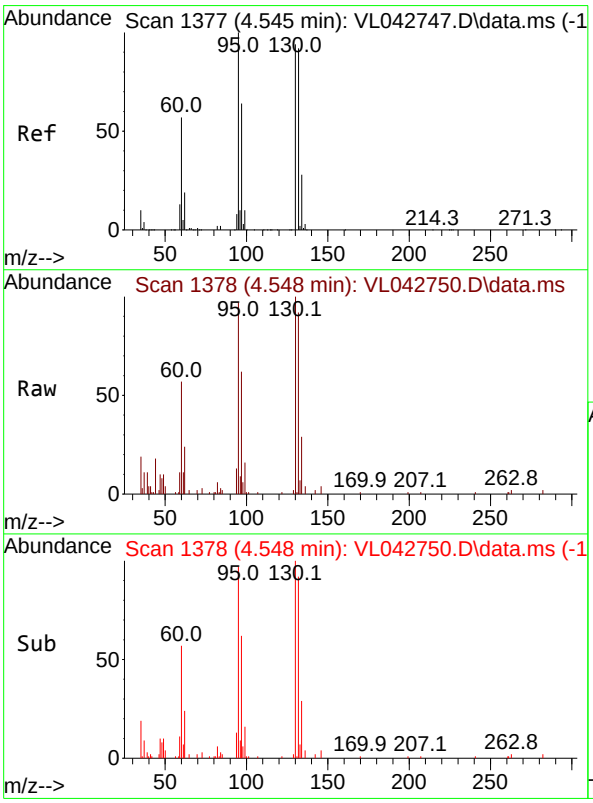
#37
1,2-Dichloroethane
Concen: 0.521 ppbv
RT: 3.215 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 13299

Ion	Ratio	Lower	Upper
62	100		
98	8.3	5.2	7.8#

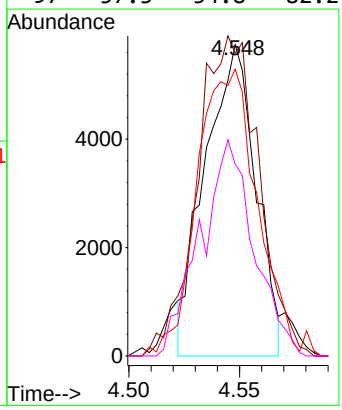


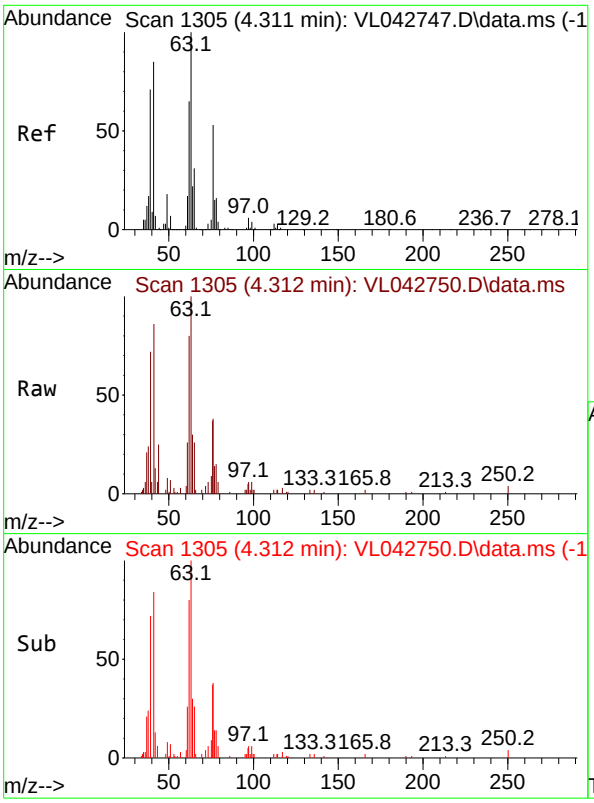


#38
Trichloroethene
Concen: 0.448 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:130 Resp: 9150

Ion	Ratio	Lower	Upper
130	100		
95	89.3	85.4	128.2
132	94.1	78.2	117.2
97	57.3	54.8	82.2



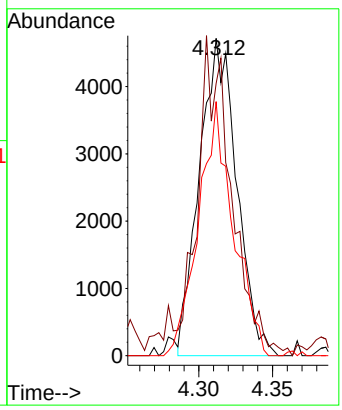


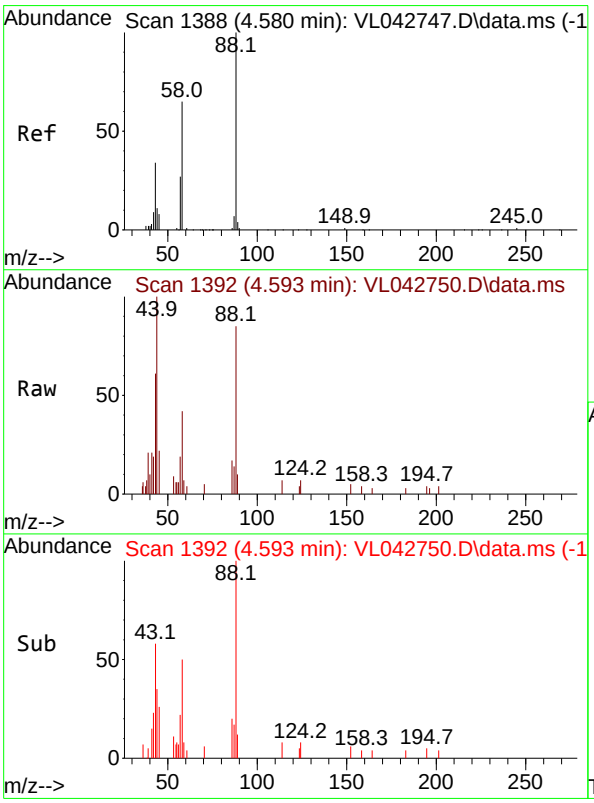
#39
1,2-Dichloropropane
Concen: 0.530 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 63 Resp: 8291

Ion	Ratio	Lower	Upper
63	100		
41	83.1	68.2	102.4
62	80.1	52.0	78.0#

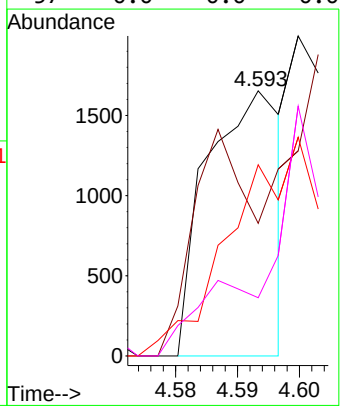


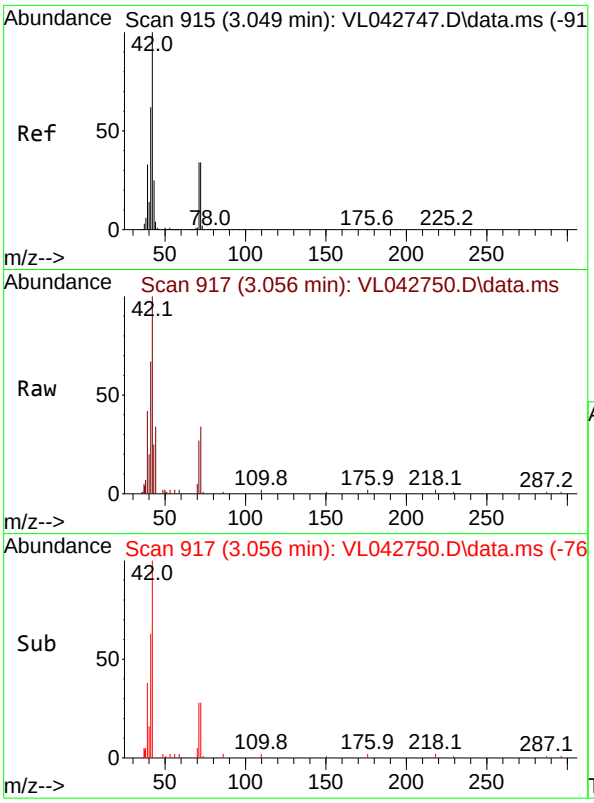


#40
1,4-Dioxane
Concen: 0.187 ppbv
RT: 4.593 min Scan# 1392
Delta R.T. 0.013 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 88 Resp: 1378

Ion	Ratio	Lower	Upper
88	100		
58	0.0	58.8	88.2#
43	0.0	28.9	43.3#
57	0.0	0.0	0.0



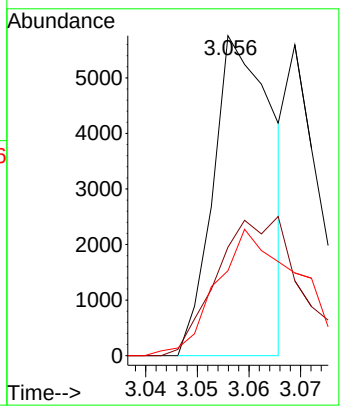


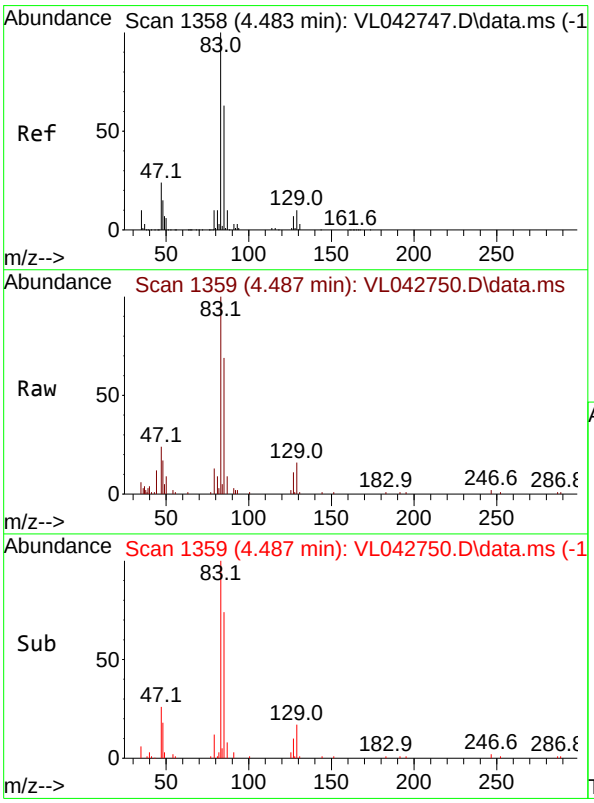
#41
Tetrahydrofuran
Concen: 0.289 ppbv
RT: 3.056 min Scan# 91
Delta R.T. 0.007 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 42 Resp: 4590

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	66.1	28.6	43.0#

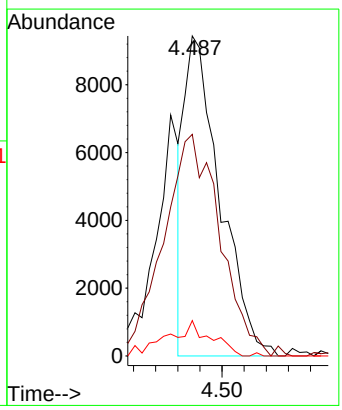


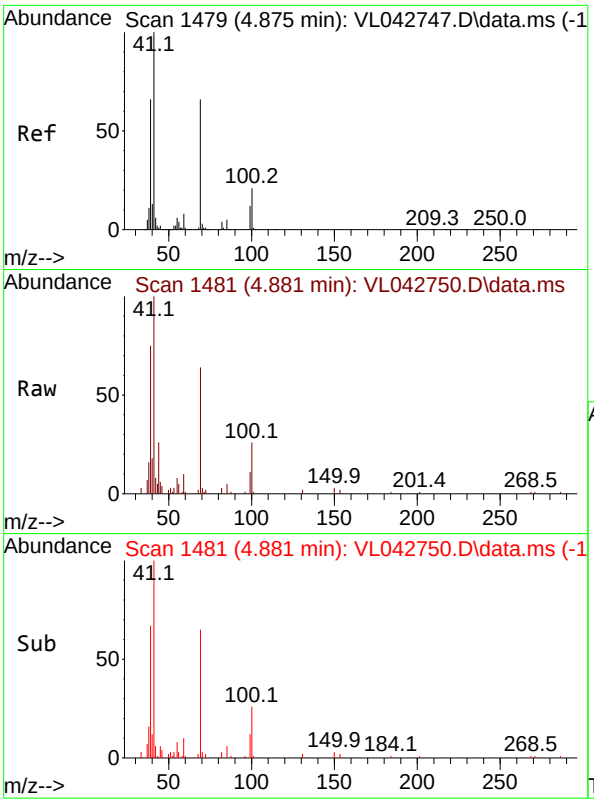


#42
Bromodichloromethane
Concen: 0.318 ppbv
RT: 4.487 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 83 Resp: 10591

Ion	Ratio	Lower	Upper
83	100		
85	66.1	50.2	75.4
127	11.1	5.4	8.2#



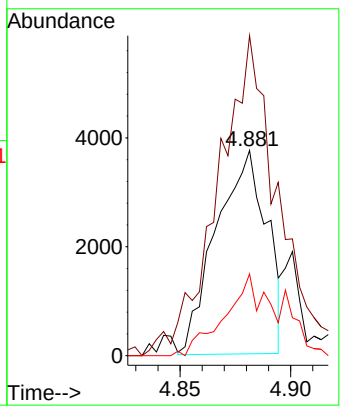


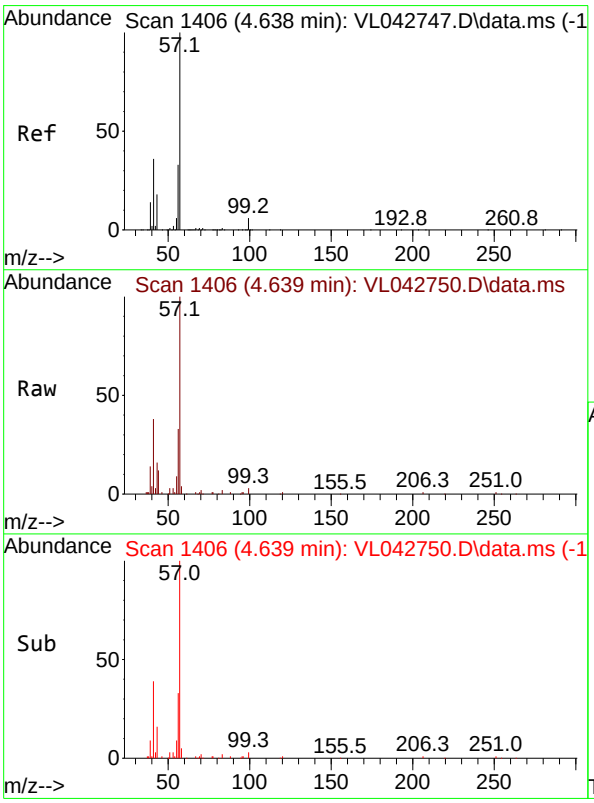
#43
Methyl Methacrylate
Concen: 0.394 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 69 Resp: 5938

Ion	Ratio	Lower	Upper
69	100		
41	186.9	125.7	188.5
100	44.0	28.6	42.8#

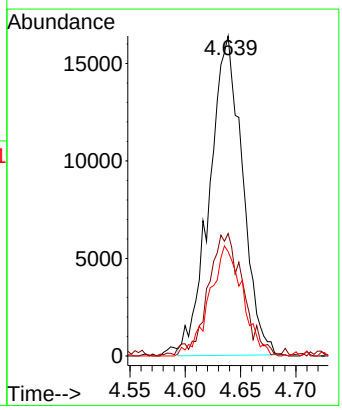


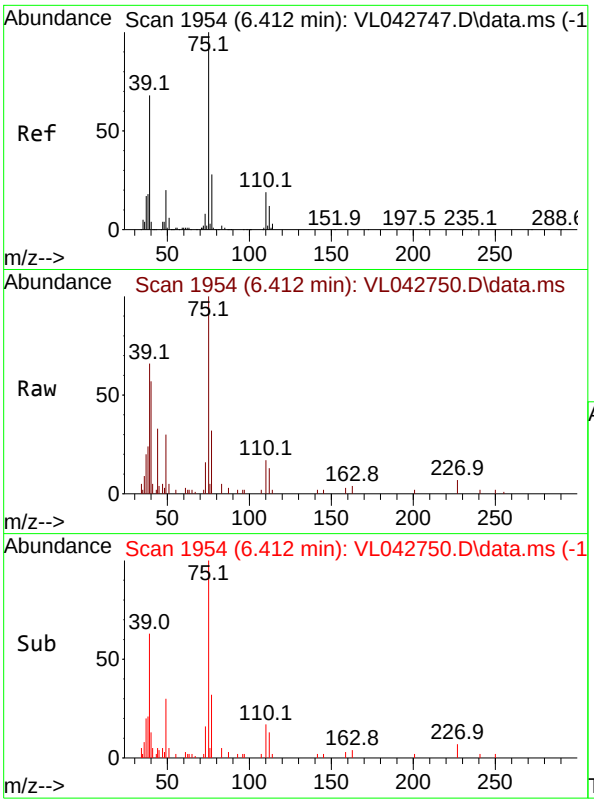


#44
2,2,4-Trimethylpentane
Concen: 0.490 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 57 Resp: 33853

Ion	Ratio	Lower	Upper
57	100		
41	41.3	28.3	42.5
56	34.7	25.8	38.6



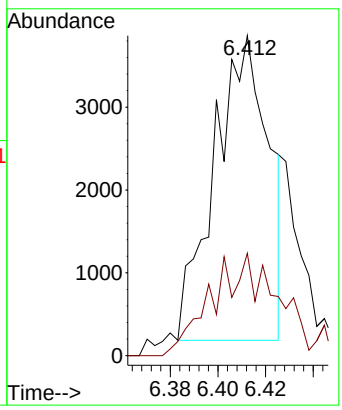


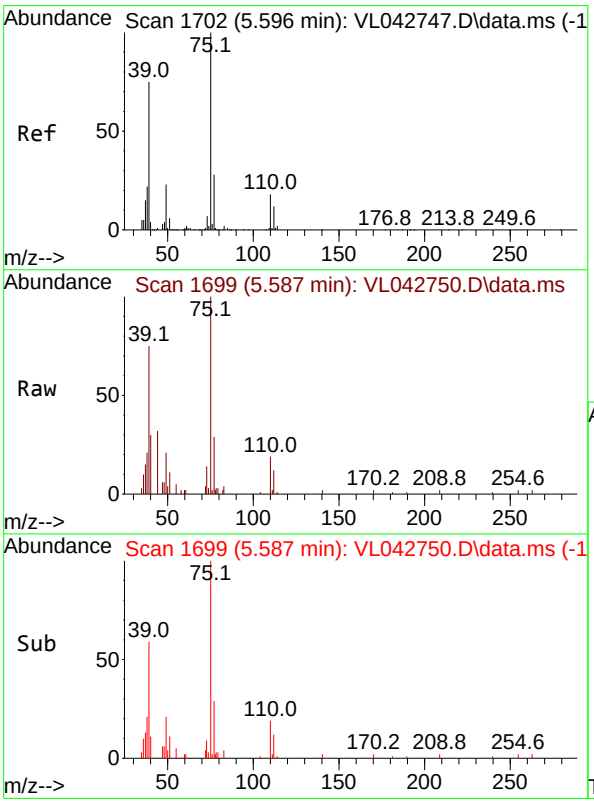
#45
t-1,3-Dichloropropene
Concen: 0.342 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 75 Resp: 5781

Ion	Ratio	Lower	Upper
75	100		
77	32.0	22.4	33.6

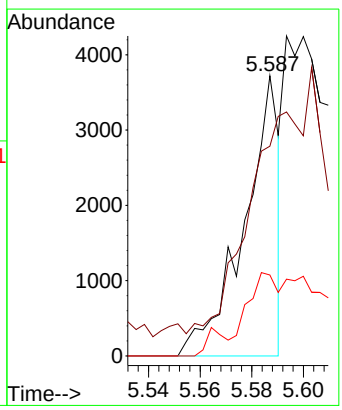


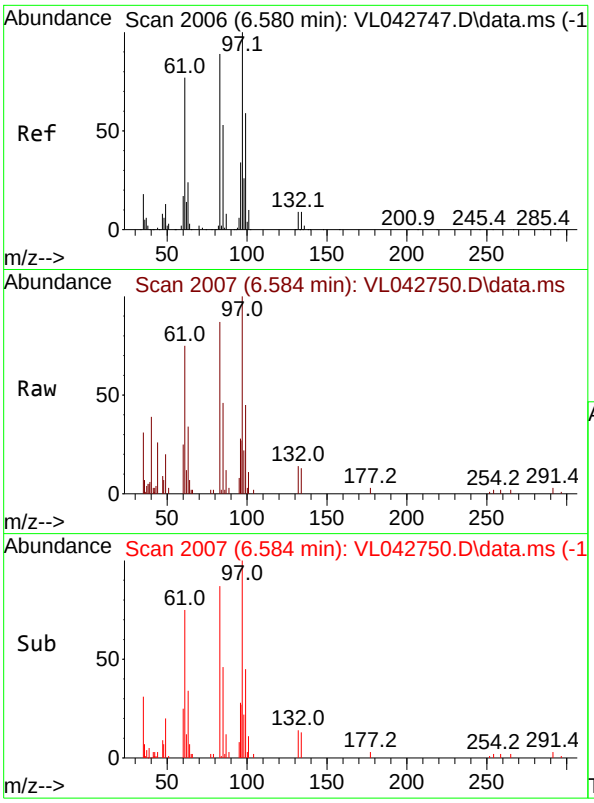


#46
cis-1,3-Dichloropropene
Concen: 0.162 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.009 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 75 Resp: 3465

Ion	Ratio	Lower	Upper
75	100		
39	63.4	60.2	90.2
77	28.9	22.6	34.0



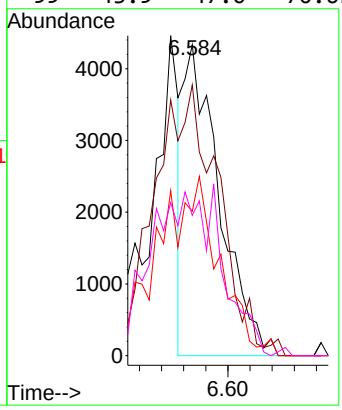


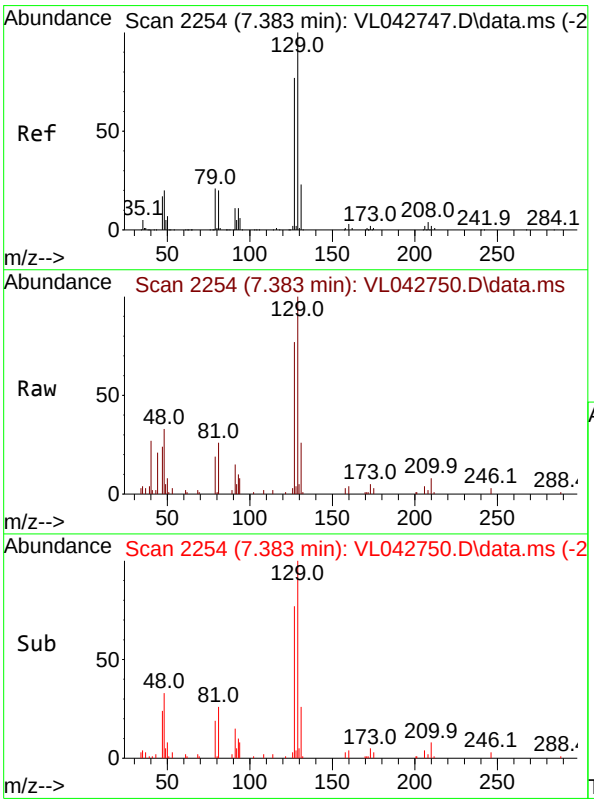
#47
1,1,2-Trichloroethane
Concen: 0.293 ppbv
RT: 6.584 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 97 Resp: 4878

Ion	Ratio	Lower	Upper
97	100		
83	81.7	71.1	106.7
85	46.4	43.0	64.4
99	43.9	47.0	70.6#

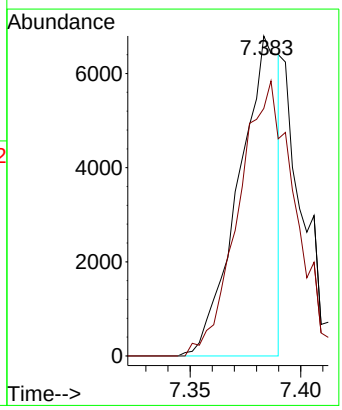


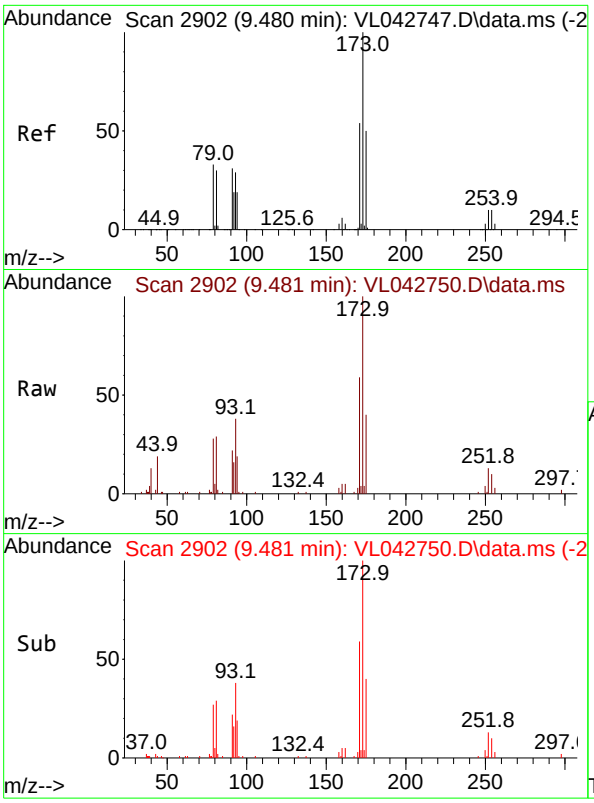


#48
Dibromochloromethane
Concen: 0.322 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:129 Resp: 8515

Ion	Ratio	Lower	Upper
129	100		
127	121.6	38.7	116.1#



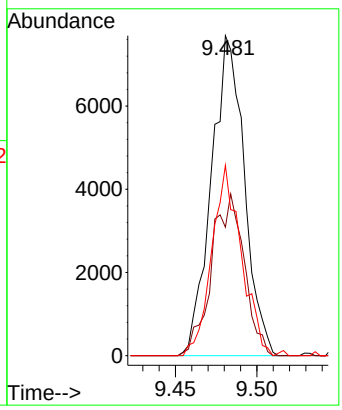


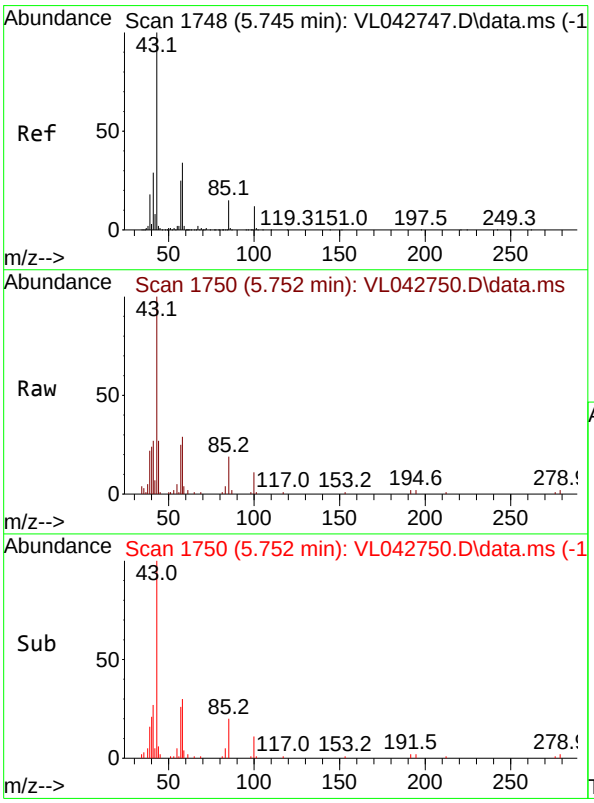
#49
Bromoform
Concen: 0.468 ppbv
RT: 9.481 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:173 Resp: 10801

Ion	Ratio	Lower	Upper
173	100		
175	50.1	38.4	57.6
171	53.7	40.9	61.3

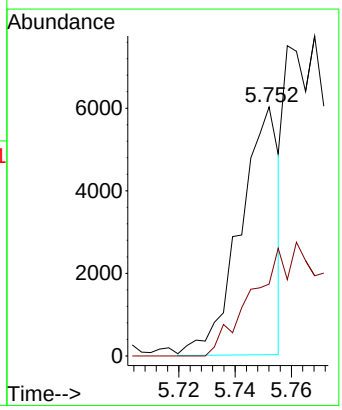


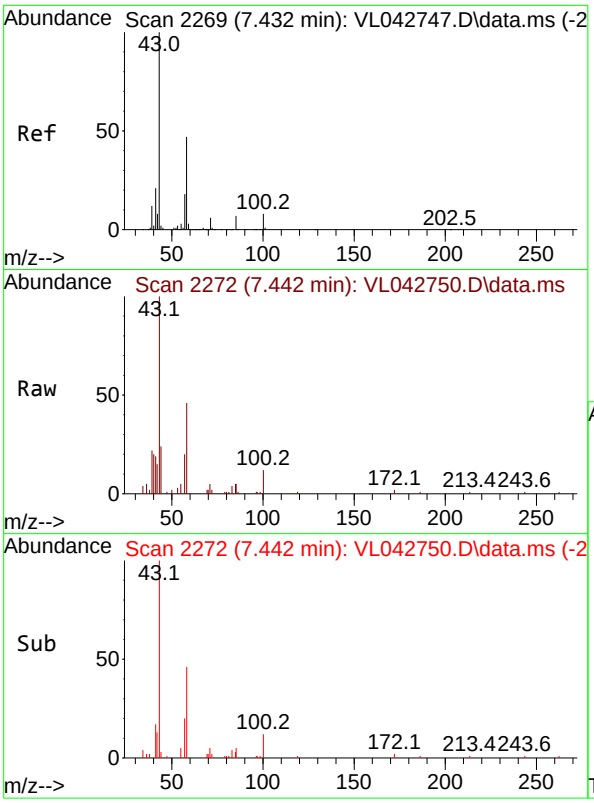


#50
4-Methyl-2-Pentanone
Concen: 0.142 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.007 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 43 Resp: 5736

Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.8	41.8#



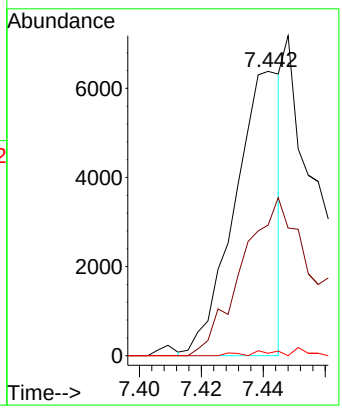


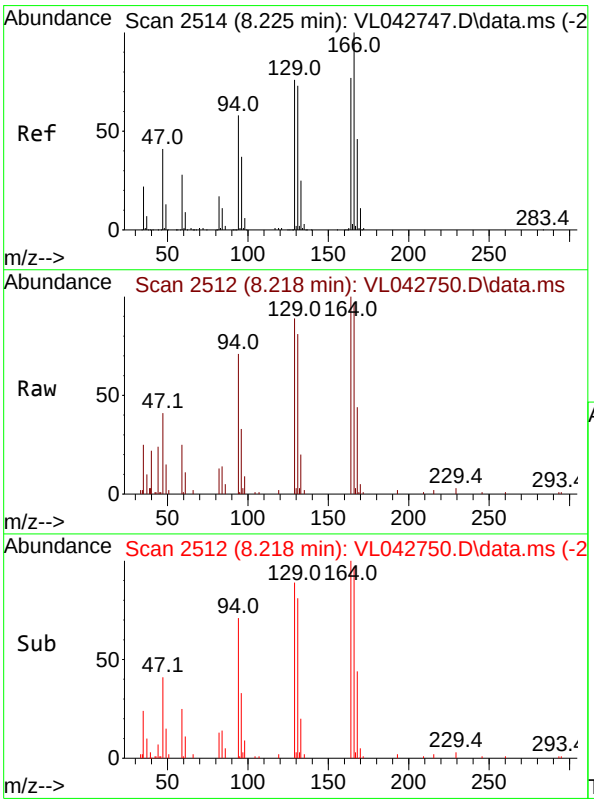
#51
2-Hexanone
Concen: 0.213 ppbv
RT: 7.442 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 6572

Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.0	57.0#
98	0.0	0.2	0.4#

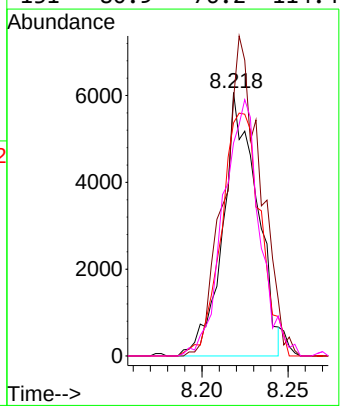


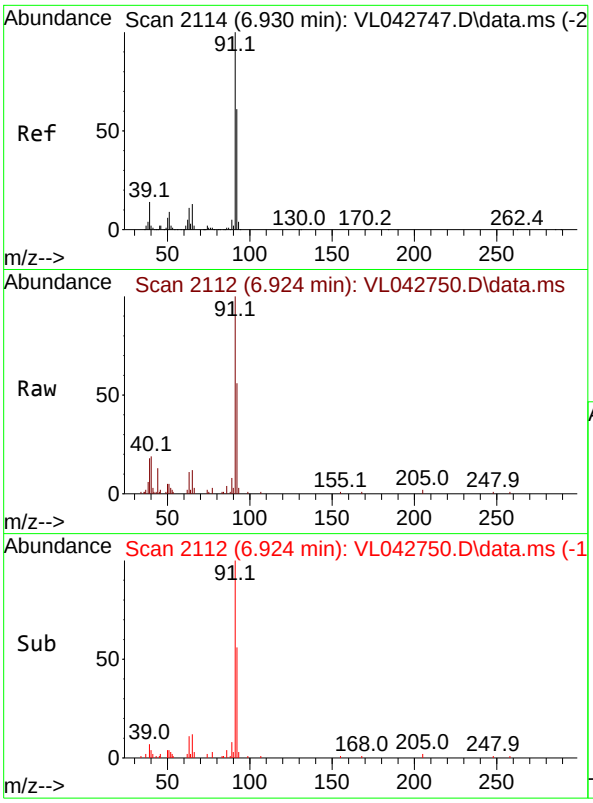


#52
Tetrachloroethene
Concen: 0.475 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:164 Resp: 8359

Ion	Ratio	Lower	Upper
164	100		
166	97.5	104.0	156.0#
129	88.5	79.2	118.8
131	80.9	76.2	114.4



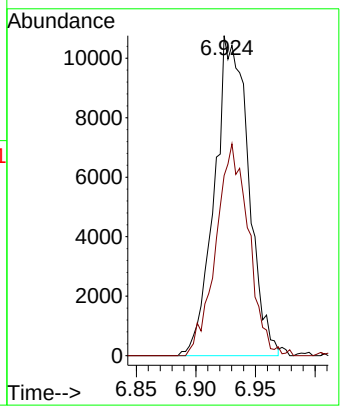


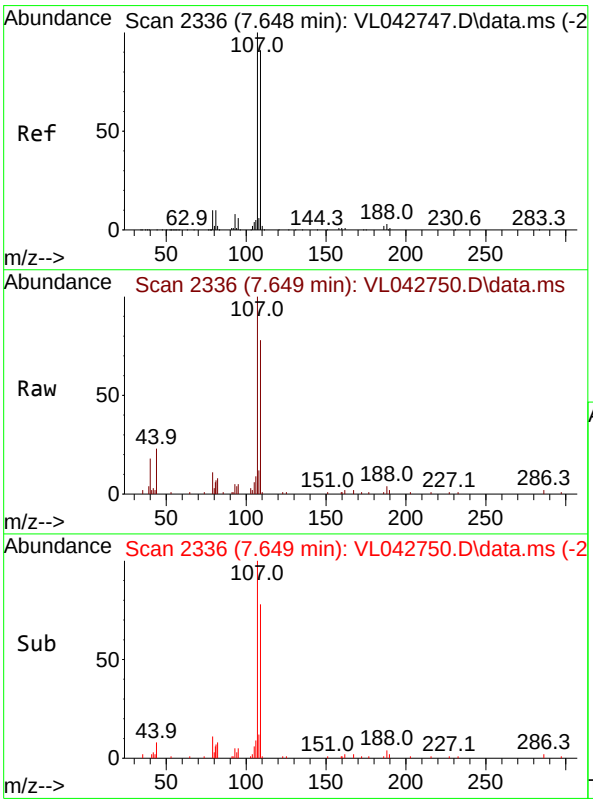
#53
Toluene
Concen: 0.469 ppbv
RT: 6.924 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 21324

Ion	Ratio	Lower	Upper
91	100		
92	63.9	48.0	72.0

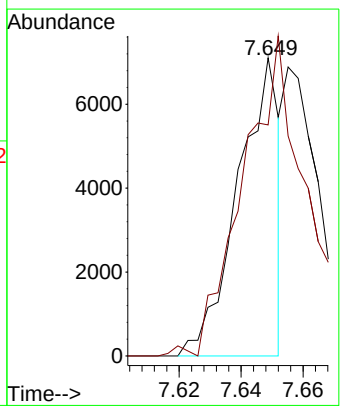


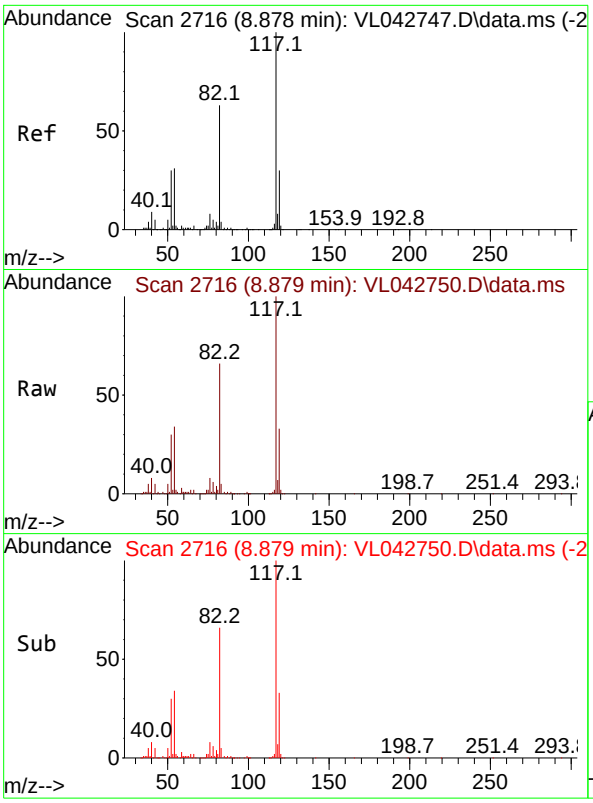


#54
1,2-Dibromoethane
Concen: 0.277 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:107 Resp: 6536

Ion	Ratio	Lower	Upper
107	100		
109	74.1	72.7	109.1



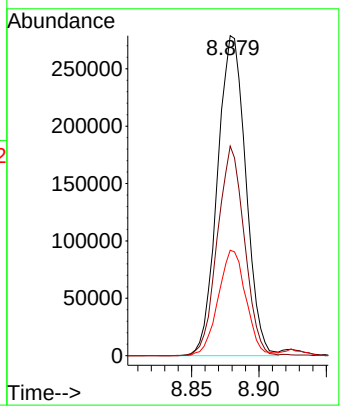


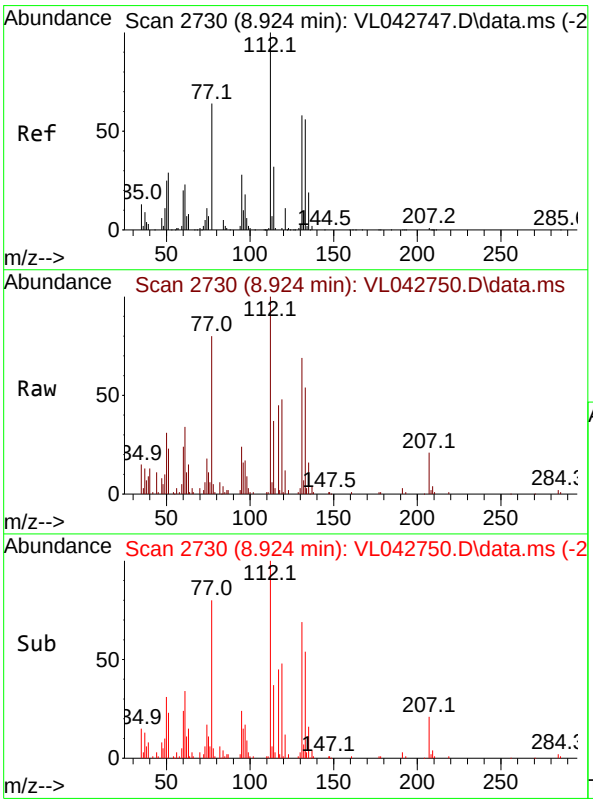
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:117 Resp: 408626

Ion	Ratio	Lower	Upper
117	100		
82	62.7	53.3	79.9
119	32.3	25.8	38.6

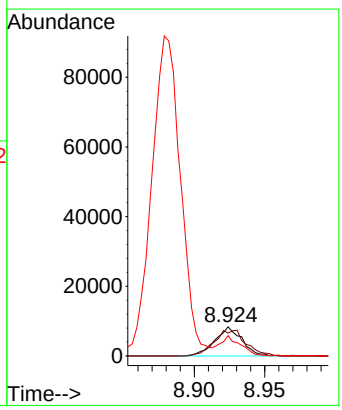


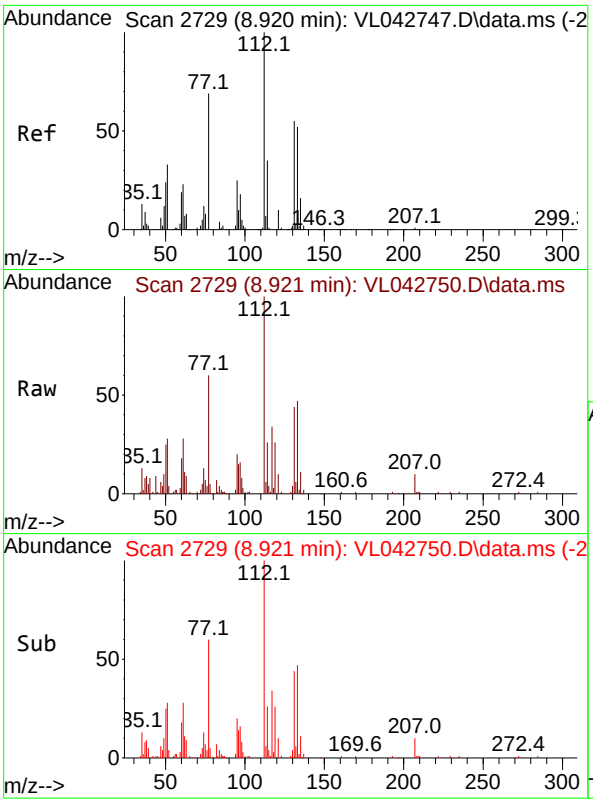


#56
1,1,1,2-Tetrachloroethane
Concen: 0.527 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:131 Resp: 11191

Ion	Ratio	Lower	Upper
131	100		
133	104.0	76.8	115.2
119	1231.3	49.7	74.5#



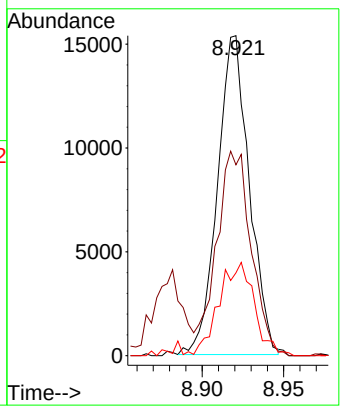


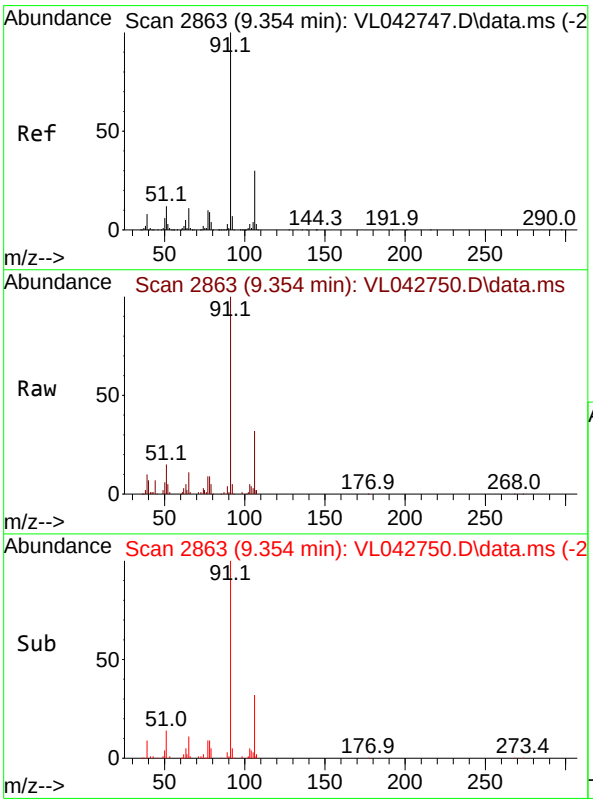
#57
Chlorobenzene
Concen: 0.527 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:112 Resp: 20828

Ion	Ratio	Lower	Upper
112	100		
77	58.4	56.4	84.6
114	23.8	31.2	38.2#

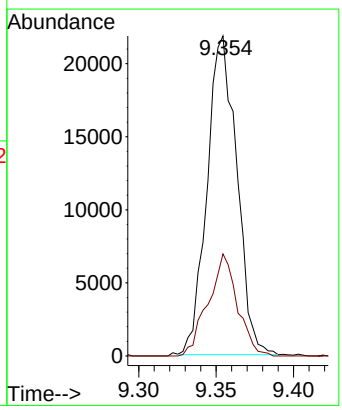


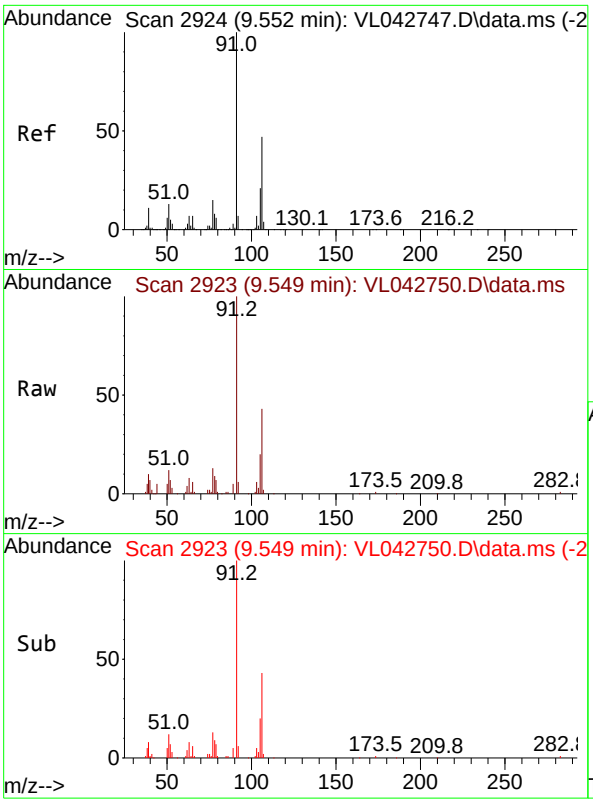


#58
Ethyl Benzene
Concen: 0.451 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 29134

Ion	Ratio	Lower	Upper
91	100		
106	32.0	23.8	35.6



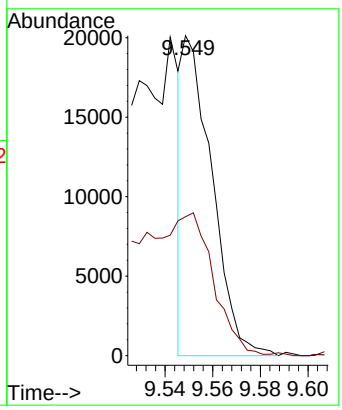


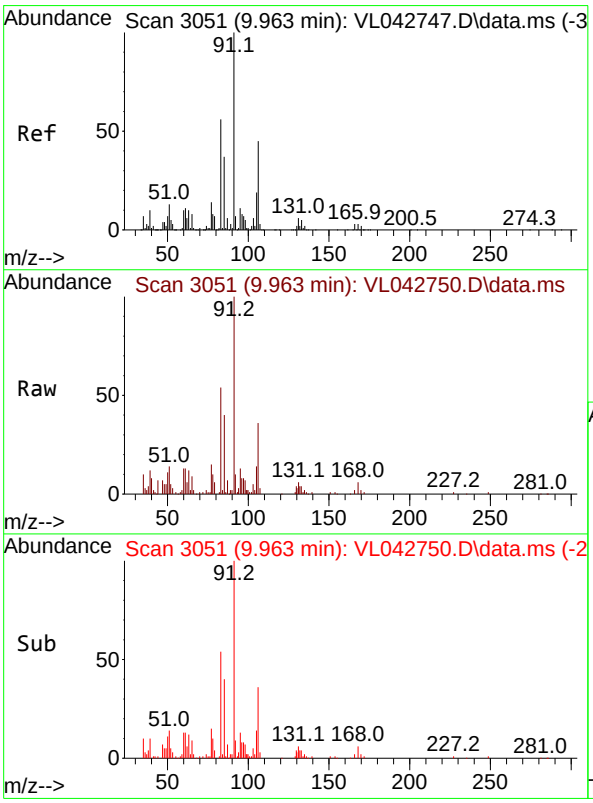
#59
m/p-Xylene
Concen: 0.332 ppbv
RT: 9.549 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 17145

Ion	Ratio	Lower	Upper
91	100		
106	123.2	37.4	56.2#

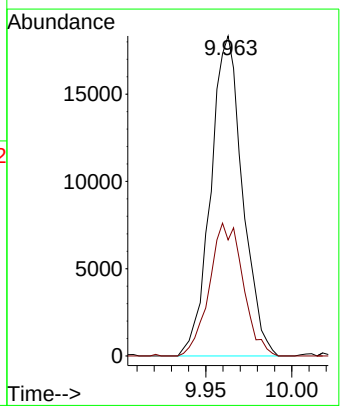


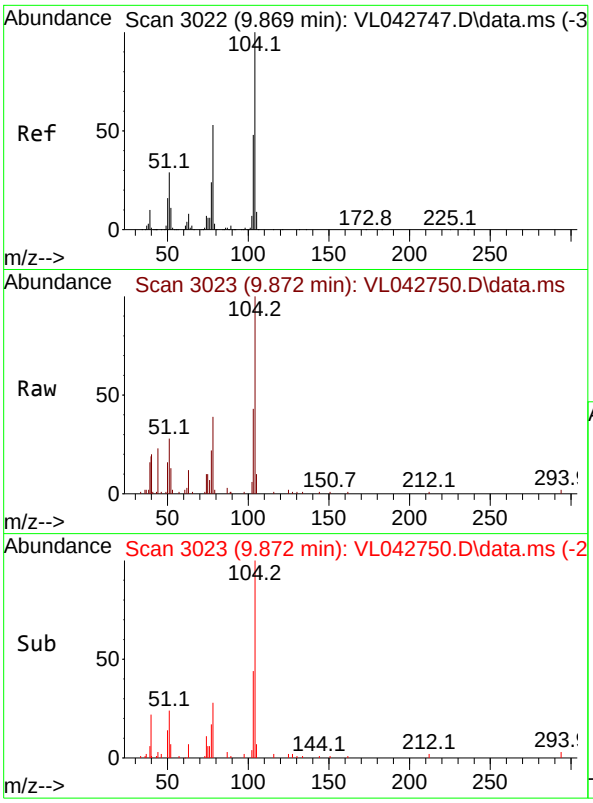


#60
o-Xylene
Concen: 0.458 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 23603

Ion	Ratio	Lower	Upper
91	100		
106	43.8	22.0	66.0



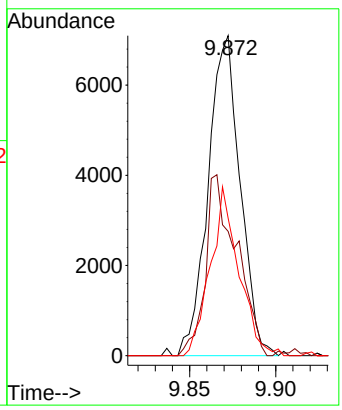


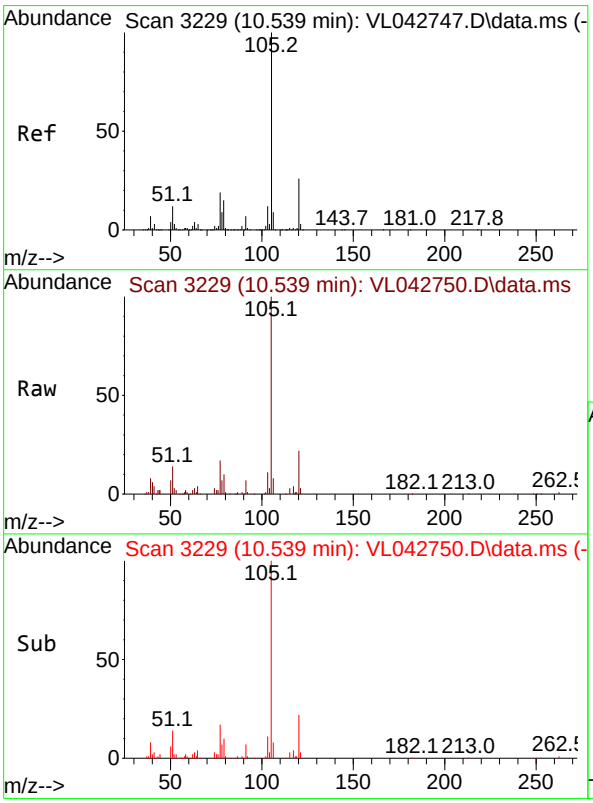
#61
Styrene
Concen: 0.424 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:104 Resp: 9195

Ion	Ratio	Lower	Upper
104	100		
78	55.8	41.5	62.3
103	47.0	37.5	56.3

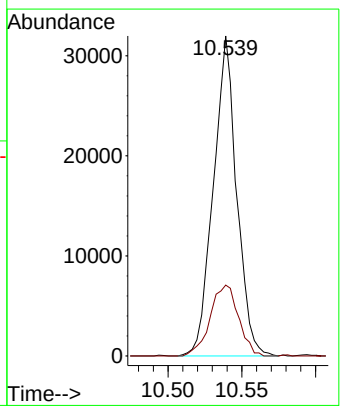


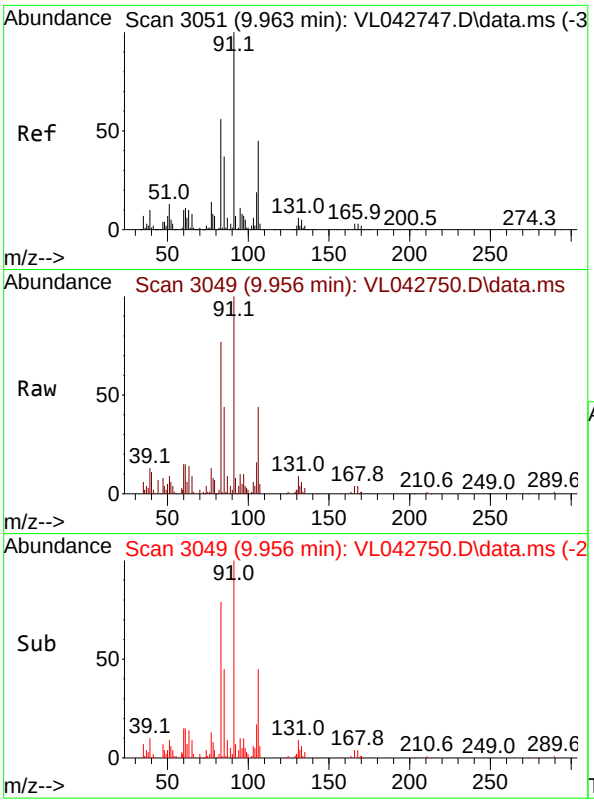


#62
Isopropylbenzene
Concen: 0.463 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 35189

Ion	Ratio	Lower	Upper
105	100		
120	26.9	20.5	30.7



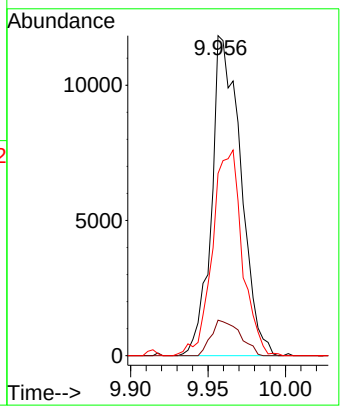


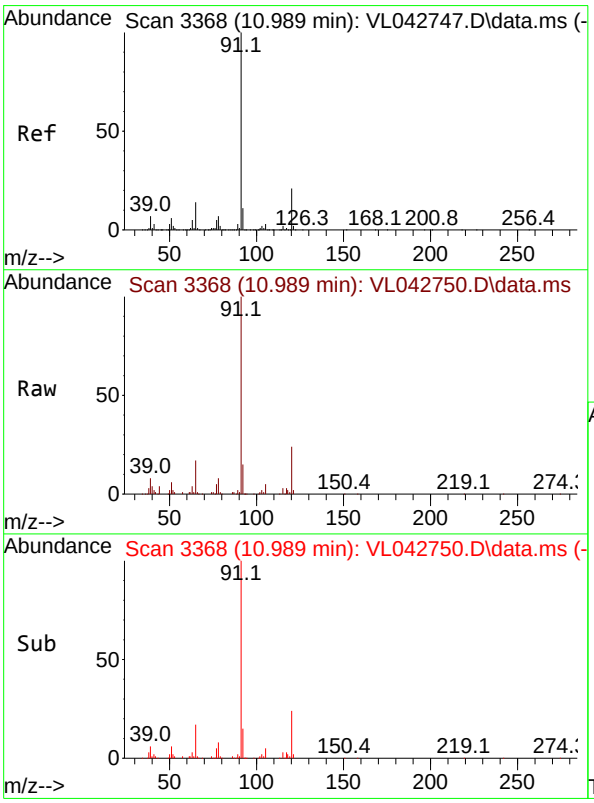
#63
1,1,2,2-Tetrachloroethane
Concen: 0.463 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 15544

Ion	Ratio	Lower	Upper
83	100		
131	11.0	5.0	15.0
85	66.1	32.6	97.7

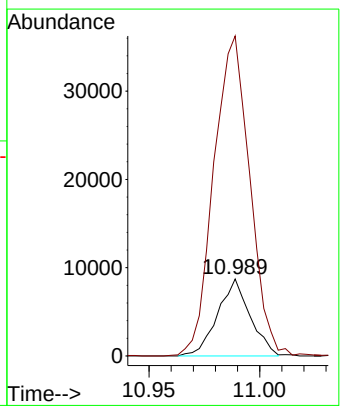


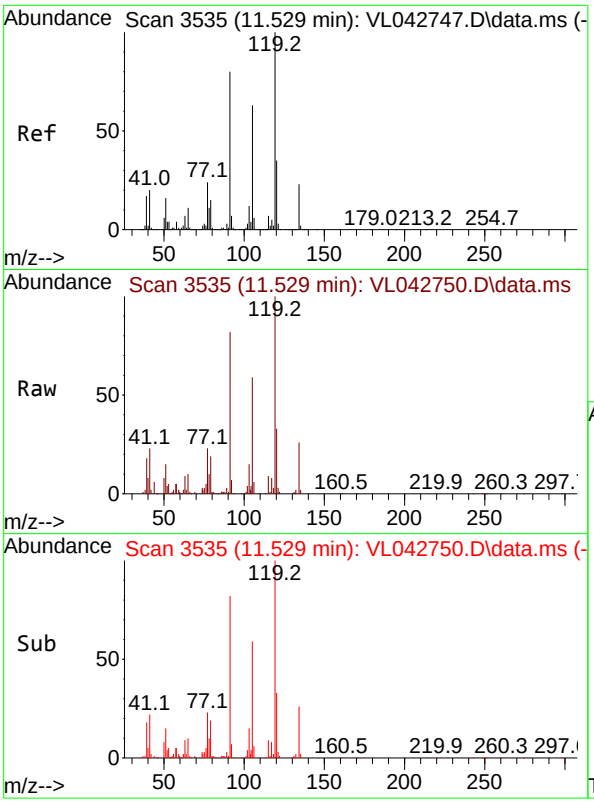


#64
n-propylbenzene
Concen: 0.450 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:120 Resp: 8924

Ion	Ratio	Lower	Upper
120	100		
91	464.1	372.7	559.1



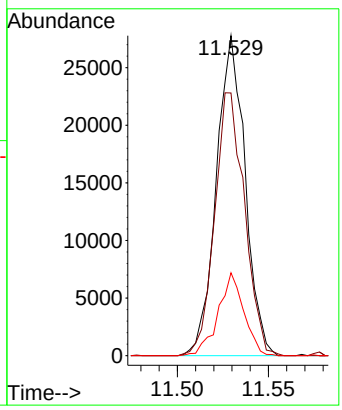


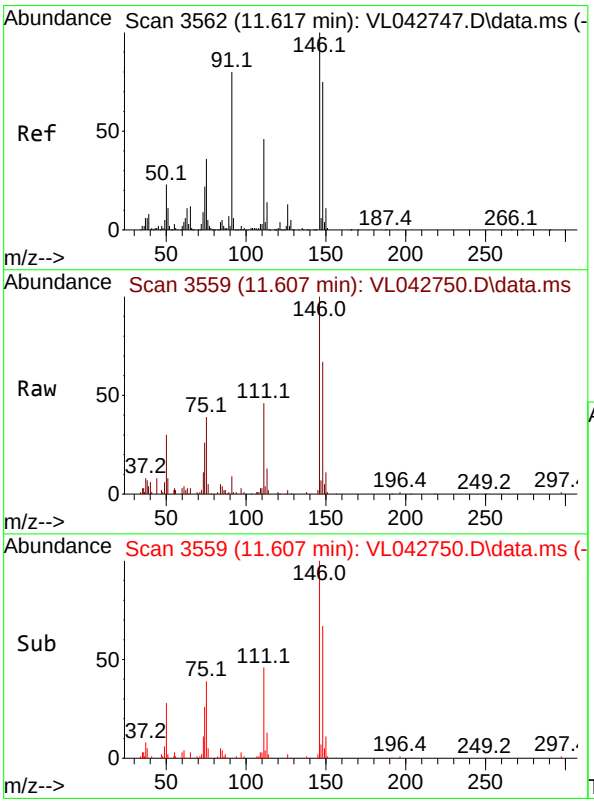
#65
tert-Butylbenzene
Concen: 0.453 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:119 Resp: 30560

Ion	Ratio	Lower	Upper
119	100		
91	85.1	64.0	96.0
134	23.1	17.3	25.9

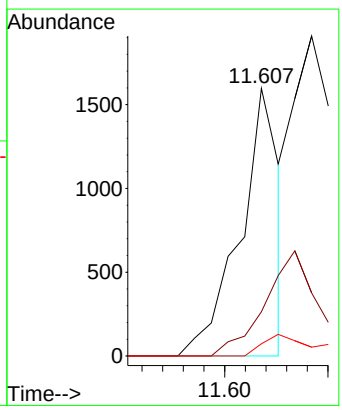


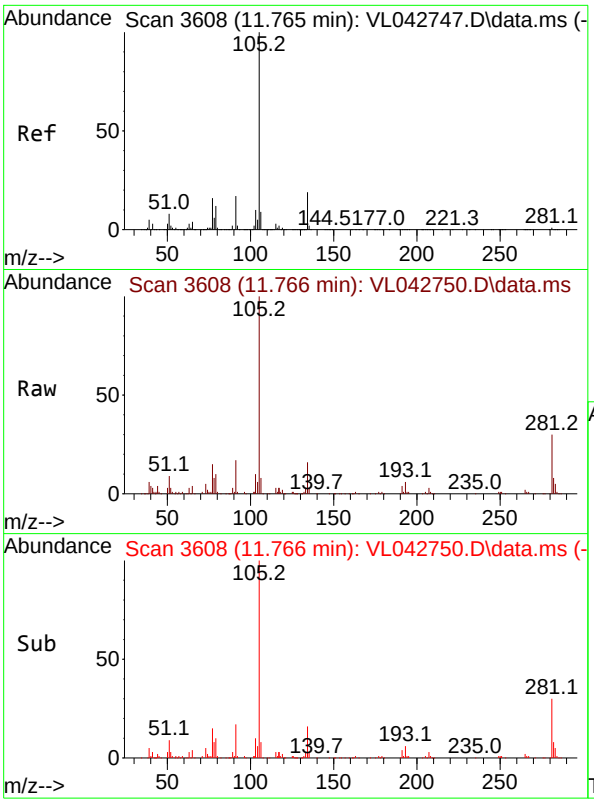


#66
Benzyl Chloride
Concen: 0.152 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.009 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 845

Ion	Ratio	Lower	Upper
91	100		
126	57.4	14.4	21.6#
128	15.5	5.2	7.8#



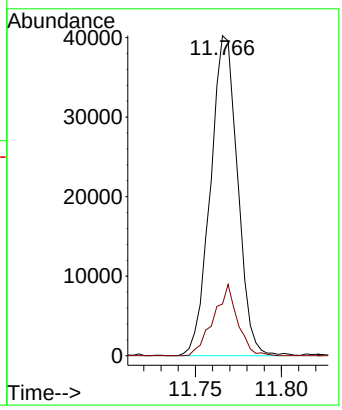


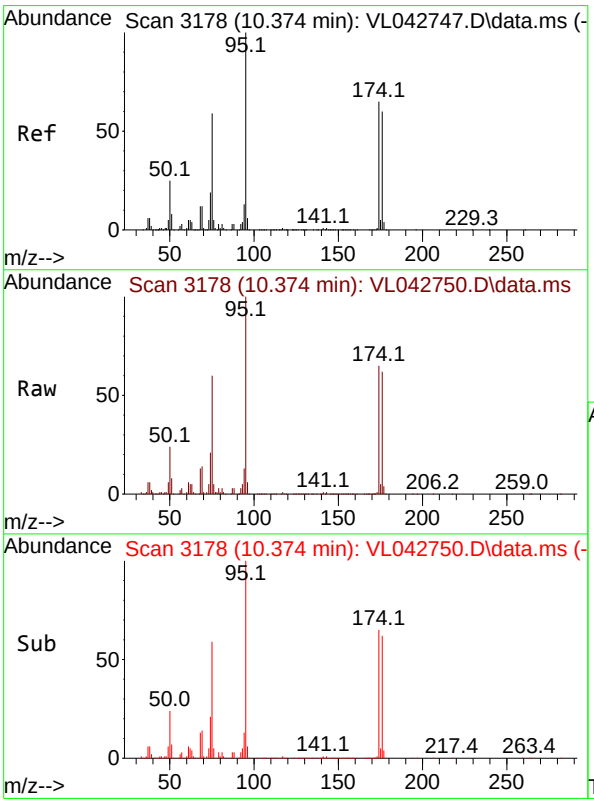
#67
sec-Butylbenzene
Concen: 0.460 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 44169

Ion	Ratio	Lower	Upper
105	100		
134	19.6	15.5	23.3

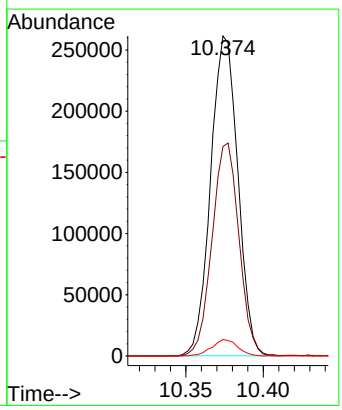


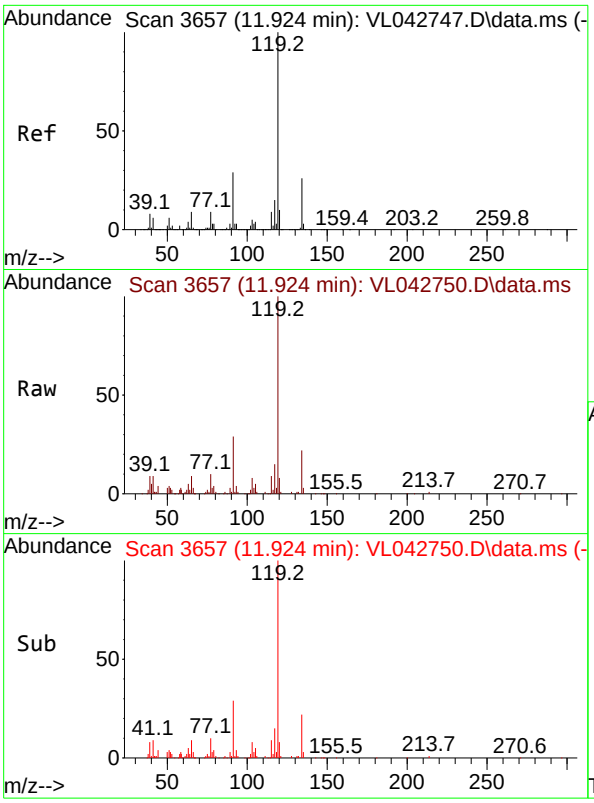


#68
1-Bromo-4-Fluorobenzene
Concen: 9.869 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 95 Resp: 319353

Ion	Ratio	Lower	Upper
95	100		
174	65.8	53.8	80.6
175	4.9	4.0	6.0



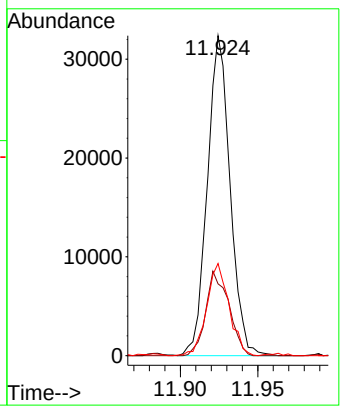


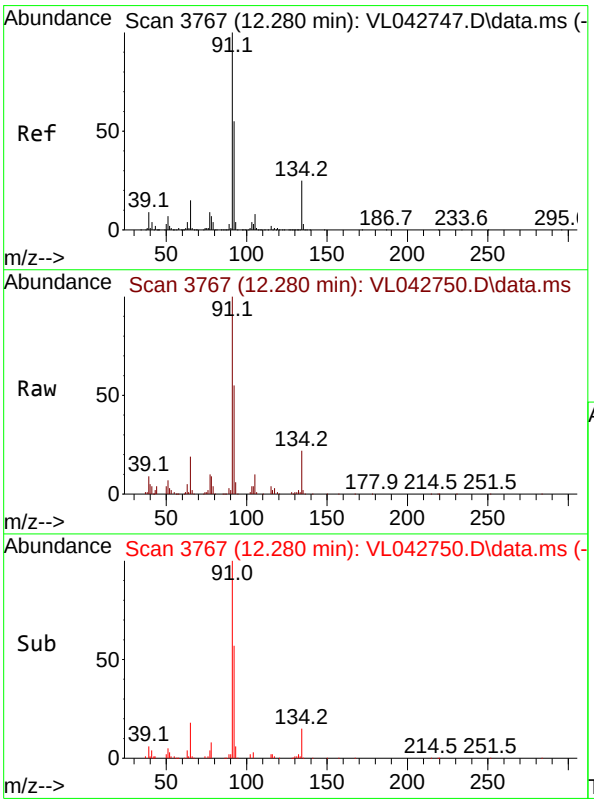
#69
p-Isopropyltoluene
Concen: 0.423 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:119 Resp: 33104

Ion	Ratio	Lower	Upper
119	100		
134	26.8	20.6	31.0
91	28.8	23.2	34.8

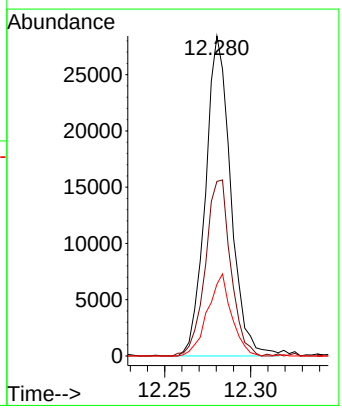


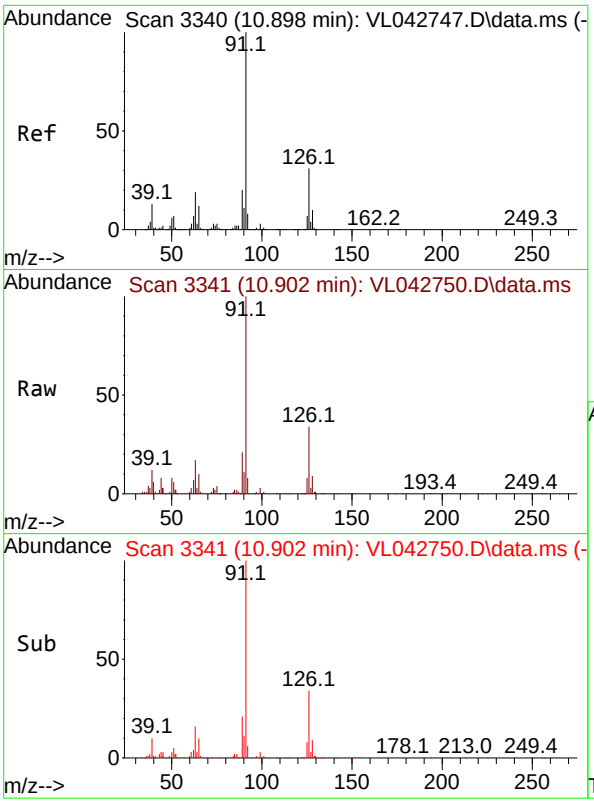


#70
n-Butylbenzene
Concen: 0.384 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 29048

Ion	Ratio	Lower	Upper
91	100		
92	55.5	43.4	65.2
134	24.3	19.6	29.4



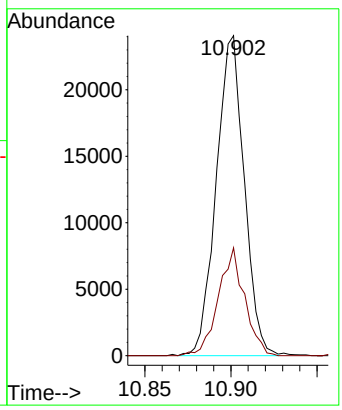


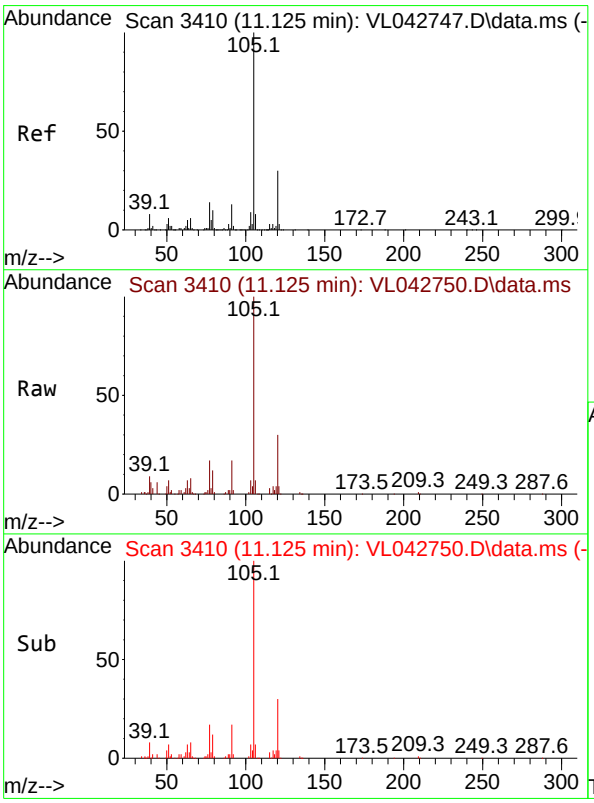
#71
2-Chlorotoluene
Concen: 0.466 ppbv
RT: 10.902 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 27184

Ion	Ratio	Lower	Upper
91	100		
126	31.7	12.0	48.2

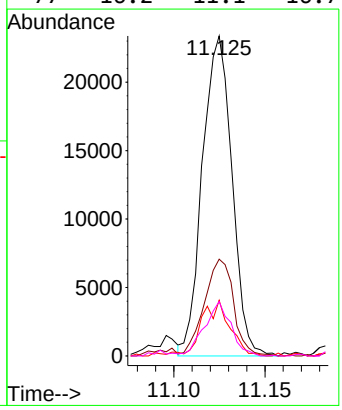


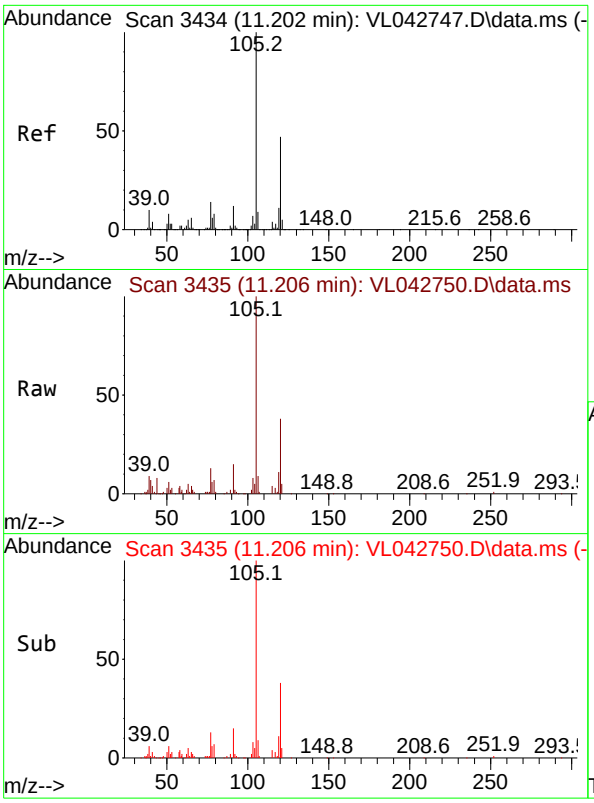


#72
4-Ethyltoluene
Concen: 0.429 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 26395

Ion	Ratio	Lower	Upper
105	100		
120	31.6	24.4	36.6
91	17.0	10.6	15.8#
77	16.2	11.1	16.7



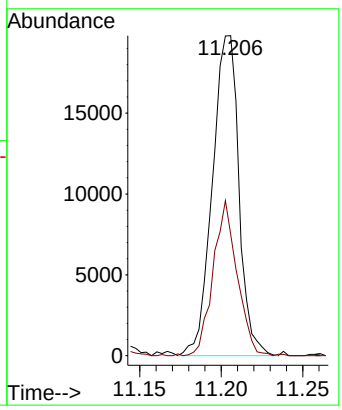


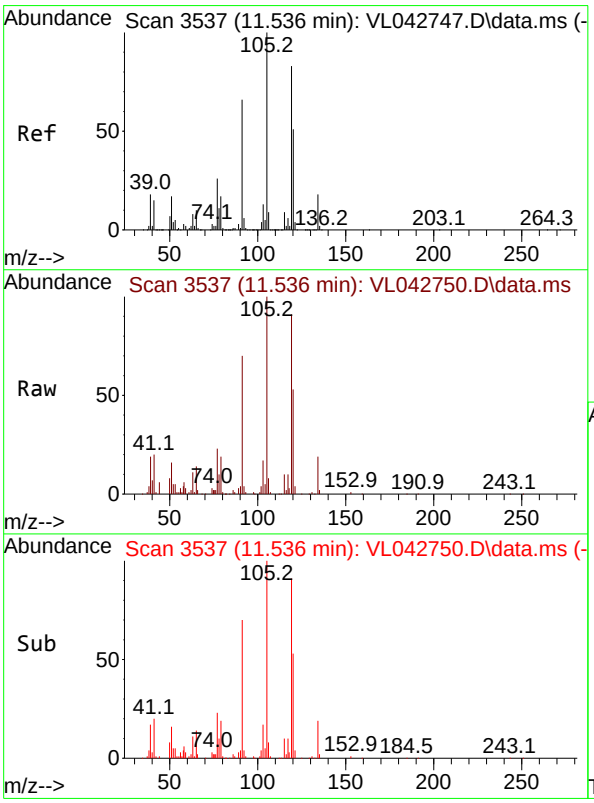
#73
1,3,5-Trimethylbenzene
Concen: 0.442 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 22392

Ion	Ratio	Lower	Upper
105	100		
120	37.5	37.8	56.8#

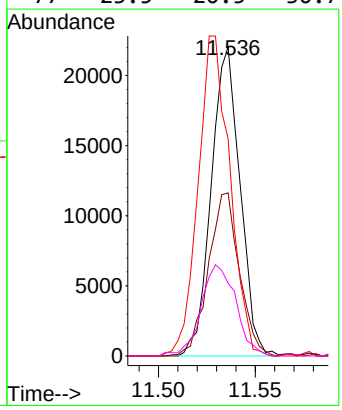


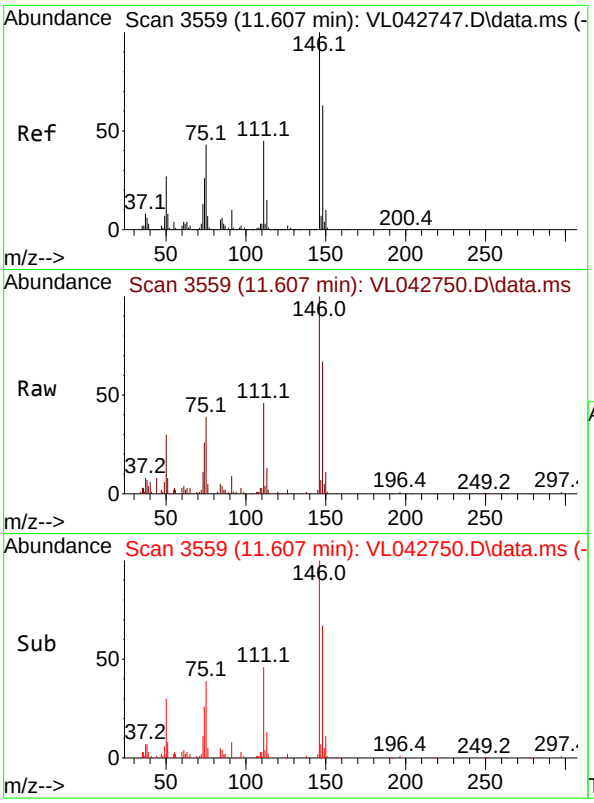


#74
1,2,4-Trimethylbenzene
Concen: 0.412 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 22772

Ion	Ratio	Lower	Upper
105	100		
120	52.7	40.8	61.2
91	70.3	53.0	79.4
77	23.5	20.5	30.7



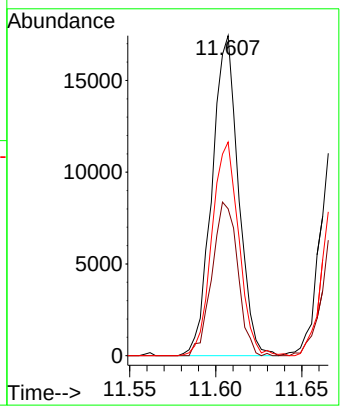


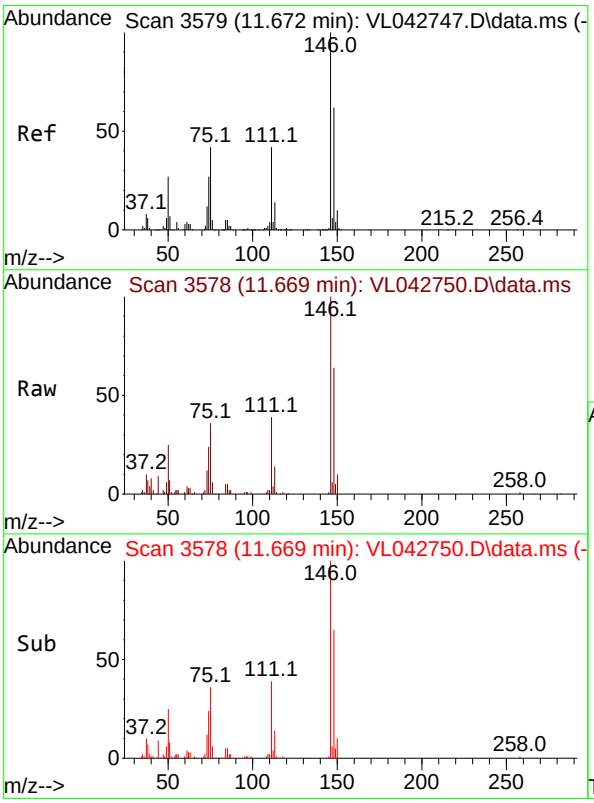
#75
1,3-Dichlorobenzene
Concen: 0.482 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:146 Resp: 18680

Ion	Ratio	Lower	Upper
146	100		
111	46.6	22.7	68.0
148	67.7	31.9	95.5

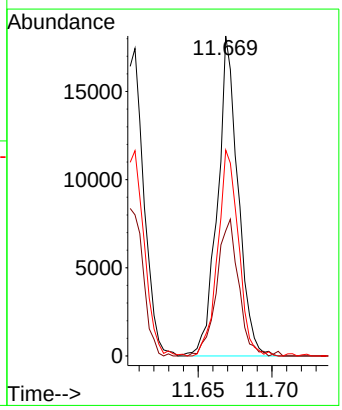


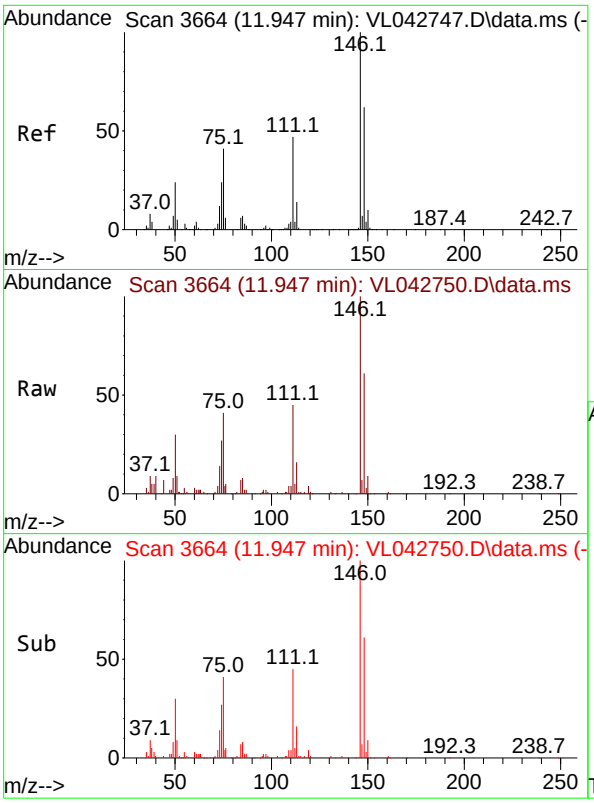


#76
1,4-Dichlorobenzene
Concen: 0.465 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:146 Resp: 17616

Ion	Ratio	Lower	Upper
146	100		
111	45.9	21.4	64.2
148	65.4	32.1	96.3



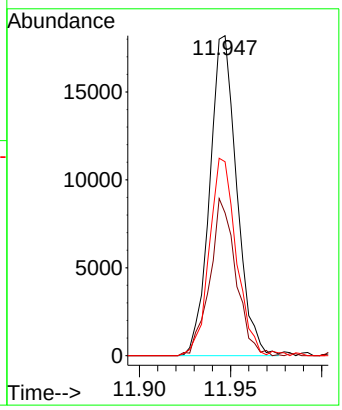


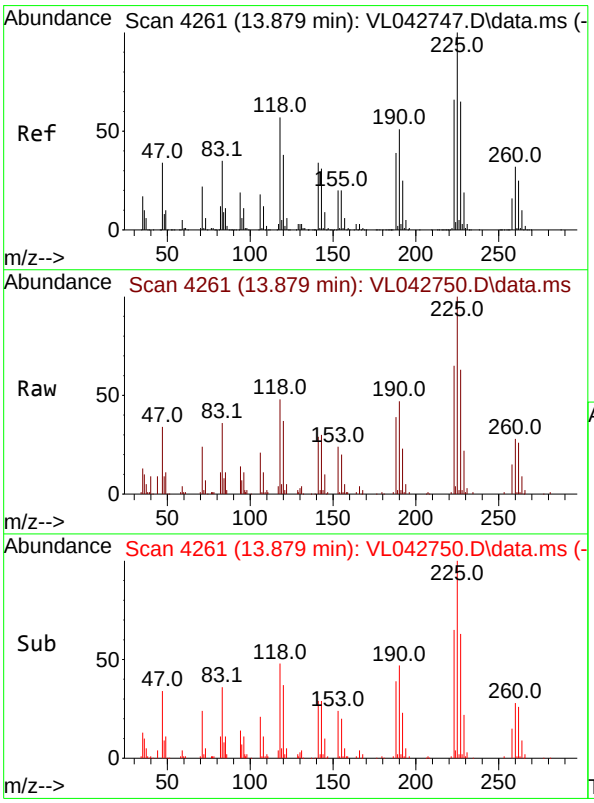
#77
1,2-Dichlorobenzene
Concen: 0.494 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:146 Resp: 18799

Ion	Ratio	Lower	Upper
146	100		
111	47.9	23.7	71.1
148	62.3	32.6	97.7

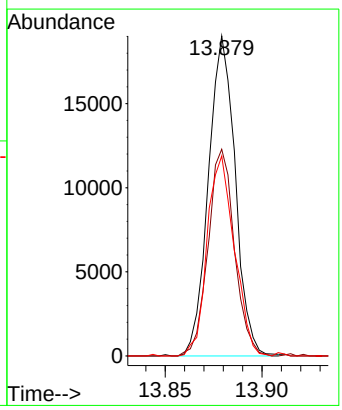


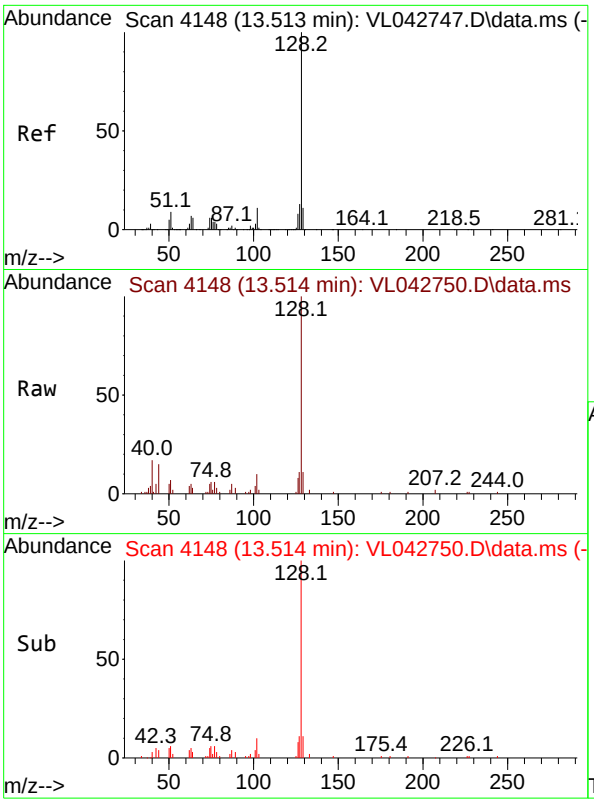


#78
Hexachloro-1,3-Butadiene
Concen: 0.532 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:225 Resp: 18330

Ion	Ratio	Lower	Upper
225	100		
223	63.7	50.7	76.1
227	63.7	50.5	75.7



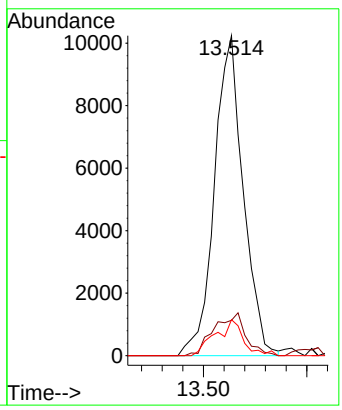


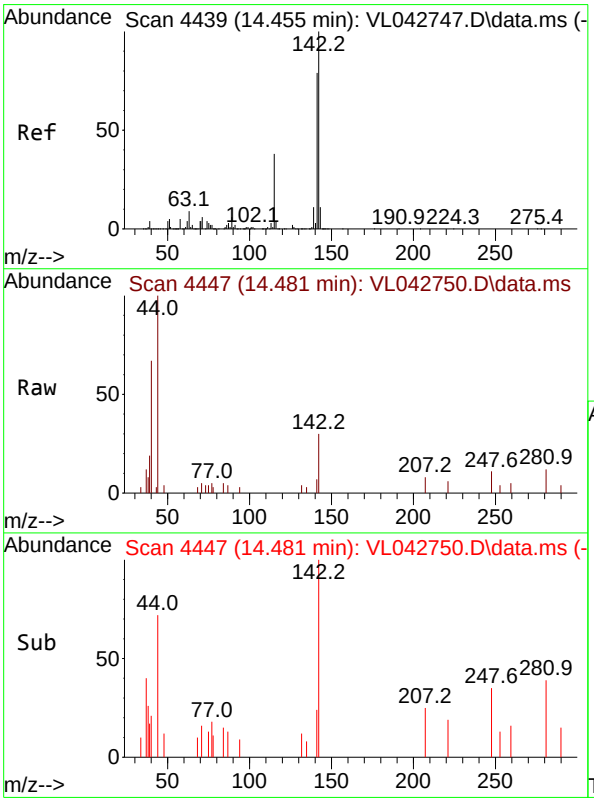
#79
Naphthalene
Concen: 0.592 ppbv
RT: 13.514 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:128 Resp: 9916

Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.5	15.7
129	11.2	8.6	13.0

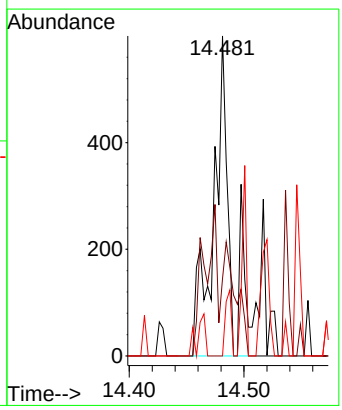


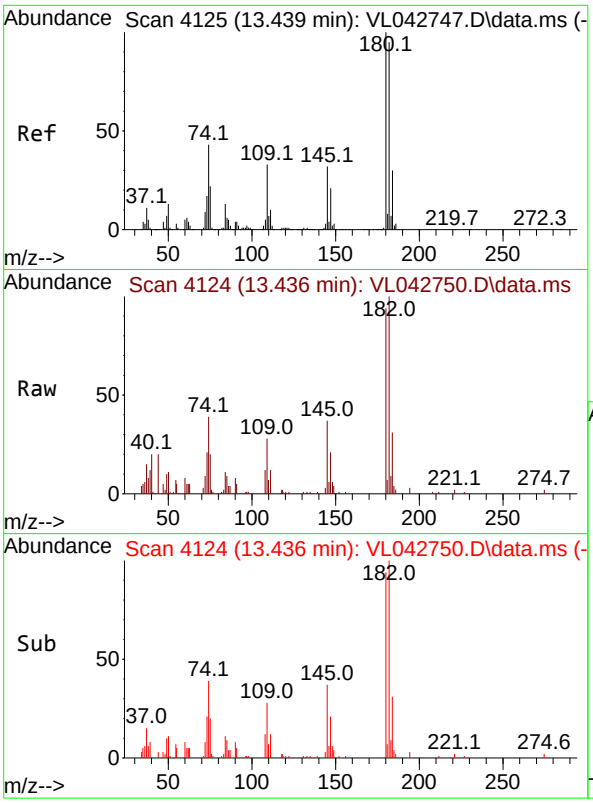


#80
Naphthalene,2-methyl-
Concen: 1.148 ppbv
RT: 14.481 min Scan# 4447
Delta R.T. 0.026 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:142 Resp: 731

Ion	Ratio	Lower	Upper
142	100		
141	54.6	65.8	98.8#
115	5.2	31.2	46.8#



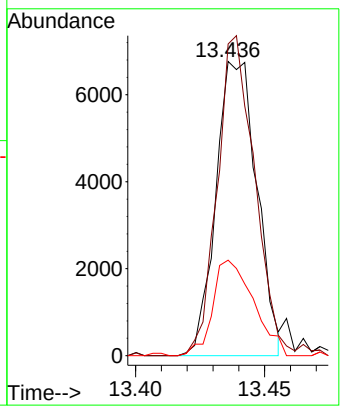


#81
1,2,4-Trichlorobenzene
Concen: 0.645 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:180 Resp: 7453

Ion	Ratio	Lower	Upper
180	100		
182	100.9	76.2	114.2
184	33.0	24.8	37.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042752.D
Acq On : 23 Jul 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jul 24 04:59:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	151834	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	432802	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	387541	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	302164	9.845	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.554	85	753	0.038	ppbv	96
3) Chlorodifluoromethane	1.822	51	331	0.013	ppbv	100
4) Chloromethane	1.531	50	432	0.053	ppbv #	35
5) Vinyl Chloride	1.580	62	376	0.047	ppbv #	68
6) Bromomethane	1.660	94	181	0.058	ppbv #	51
7) Chloroethane	1.703	64	125	0.040	ppbv #	72
8) Dichlorotetrafluoroethane	1.554	85	753	0.046	ppbv	98
9) Propene	1.411	41	190	0.020	ppbv	89
10) Heptane	4.978	43	121	0.005	ppbv #	27
11) Trichlorofluoromethane	1.877	101	936	0.045	ppbv #	76
12) 1,1,2-Trichlorotrifluo...	2.140	101	345	0.022	ppbv #	8
13) Ethanol	1.887	45	511	Below Cal	#	1
14) Bromoethene	1.777	108	156	0.028	ppbv #	1
15) Acetone	1.832	43	2557	0.122	ppbv	91
16) 1,3-Butadiene	1.605	39	502	0.056	ppbv #	8
17) tert-Butyl alcohol	2.042	59	782	0.041	ppbv #	72
18) 1,1-Dichloroethene	2.033	96	312	0.044	ppbv #	57
19) Isopropyl Alcohol	1.887	45	511	0.046	ppbv	98
20) Methylene Chloride	2.059	84	1607	0.243	ppbv #	86
21) Allyl Chloride	2.094	41	856	0.066	ppbv #	28
22) trans-1,2-Dichloroethene	2.337	96	263	0.034	ppbv #	50
23) Vinyl Acetate	2.460	43	1410	0.055	ppbv #	62
24) 1,1-Dichloroethane	2.405	63	715	0.046	ppbv #	94
25) Ethyl Acetate	2.832	43	1085	0.023	ppbv #	65
26) Hexane	2.819	57	704	0.035	ppbv #	1
27) Carbon Disulfide	2.146	76	605	0.035	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	249	0.026	ppbv #	1
29) Chloroform	2.842	83	1324	0.042	ppbv	92
30) Cyclohexane	3.852	84	115	0.007	ppbv #	1
31) cis-1,2-Dichloroethene	2.716	61	527	0.025	ppbv #	79
32) 1,1,1-Trichloroethane	3.353	97	302	0.009	ppbv #	1
34) 2-Butanone	2.557	43	1423	0.046	ppbv	96
35) Carbon Tetrachloride	3.755	117	427	0.013	ppbv #	43
36) Benzene	3.645	78	1657	0.040	ppbv #	84
37) 1,2-Dichloroethane	3.214	62	902	0.037	ppbv #	81
38) Trichloroethene	4.535	130	438	0.022	ppbv #	24
39) 1,2-Dichloropropane	3.949	63	109883	7.257	ppbv #	21
40) 1,4-Dioxane	4.541	88	32	0.004	ppbv #	1
41) Tetrahydrofuran	3.039	42	84	0.005	ppbv #	38
42) Bromodichloromethane	4.470	83	390	0.012	ppbv #	26
43) Methyl Methacrylate	4.862	69	32	0.002	ppbv #	1
44) 2,2,4-Trimethylpentane	4.628	57	714	0.011	ppbv #	1
45) t-1,3-Dichloropropene	6.392	75	252	0.015	ppbv #	77

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042752.D
Acq On : 23 Jul 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jul 24 04:59:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

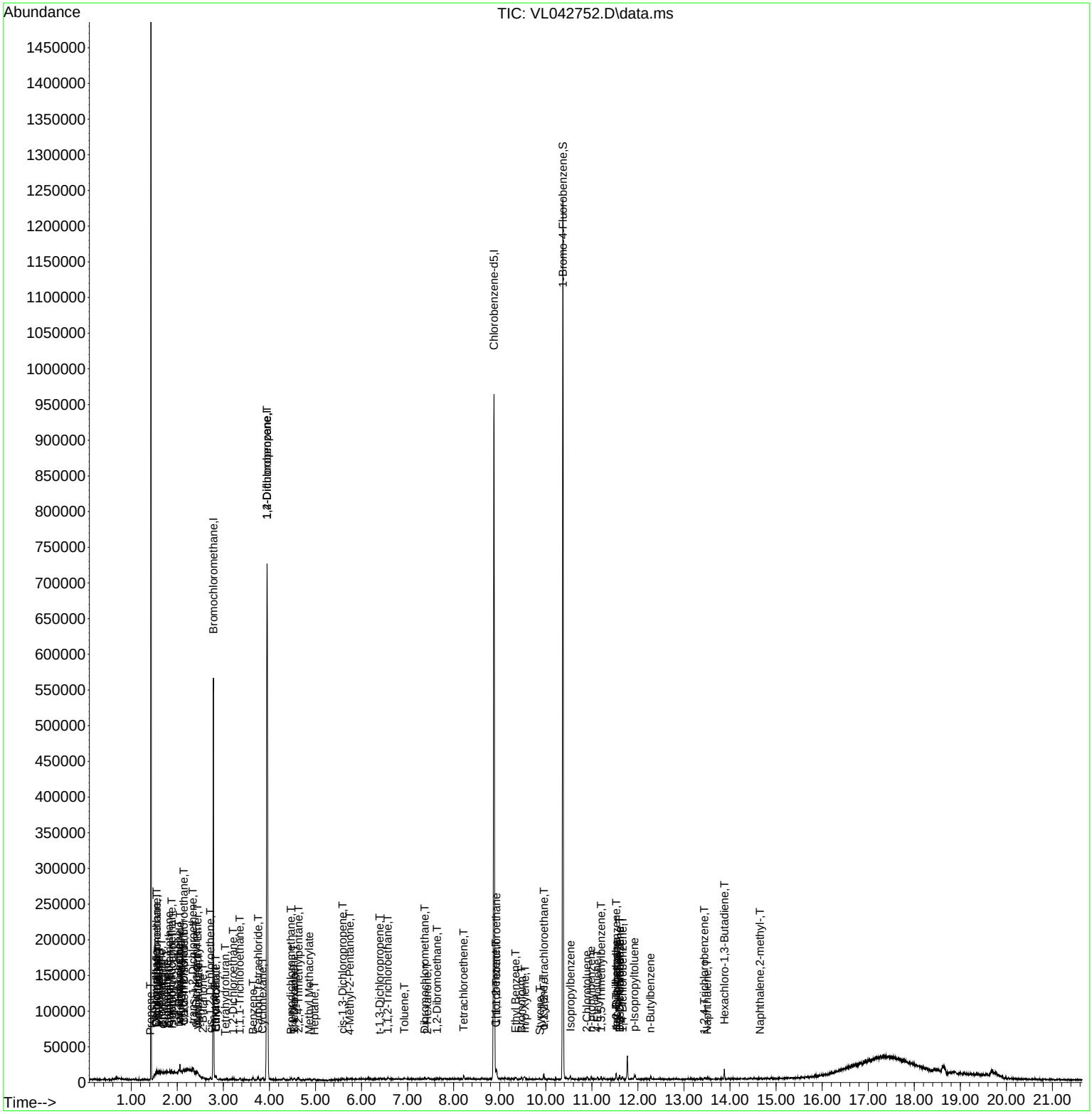
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	259	0.012	ppbv	#	26
47) 1,1,2-Trichloroethane	6.570	97	226	0.014	ppbv	#	34
48) Dibromochloromethane	7.370	129	206	0.008	ppbv	#	1
49) Bromoform	9.470	173	346	0.015	ppbv	#	31
50) 4-Methyl-2-Pentanone	5.742	43	157	0.004	ppbv	#	40
51) 2-Hexanone	7.428	43	72	0.002	ppbv	#	30
52) Tetrachloroethene	8.215	164	317	0.019	ppbv	#	35
53) Toluene	6.926	91	832	0.019	ppbv	#	21
54) 1,2-Dibromoethane	7.635	107	155	0.007	ppbv		87
56) 1,1,1,2-Tetrachloroethane	8.924	131	471	0.023	ppbv	#	1
57) Chlorobenzene	8.914	112	852	0.023	ppbv	#	48
58) Ethyl Benzene	9.344	91	837	0.014	ppbv		90
59) m/p-Xylene	9.548	91	1097	0.022	ppbv	#	30
60) o-Xylene	9.953	91	1440	0.029	ppbv		95
61) Styrene	9.872	104	373	0.018	ppbv	#	58
62) Isopropylbenzene	10.535	105	1137	0.016	ppbv	#	48
63) 1,1,2,2-Tetrachloroethane	9.959	83	685	0.022	ppbv	#	57
64) n-propylbenzene	10.985	120	465	0.025	ppbv		78
65) tert-Butylbenzene	11.526	119	1786	0.028	ppbv	#	92
66) Benzyl Chloride	11.600	91	118	0.022	ppbv	#	61
67) sec-Butylbenzene	11.529	105	1421	0.016	ppbv		96
69) p-Isopropyltoluene	11.921	119	1420	0.019	ppbv	#	78
70) n-Butylbenzene	12.273	91	591	0.008	ppbv	#	24
71) 2-Chlorotoluene	10.895	91	547	0.010	ppbv	#	45
72) 4-Ethyltoluene	11.118	105	1098	0.019	ppbv	#	78
73) 1,3,5-Trimethylbenzene	11.202	105	1204	0.025	ppbv		96
74) 1,2,4-Trimethylbenzene	11.529	105	1421	0.027	ppbv		88
75) 1,3-Dichlorobenzene	11.600	146	1122	0.031	ppbv		86
76) 1,4-Dichlorobenzene	11.668	146	658	0.018	ppbv	#	71
77) 1,2-Dichlorobenzene	11.600	146	1122	0.031	ppbv		89
78) Hexachloro-1,3-Butadiene	13.876	225	1559	0.048	ppbv	#	86
79) Naphthalene	13.503	128	126	0.436	ppbv	#	69
80) Naphthalene,2-methyl-	14.649	142	15	1.127	ppbv	#	23
81) 1,2,4-Trichlorobenzene	13.439	180	170	0.438	ppbv	#	1

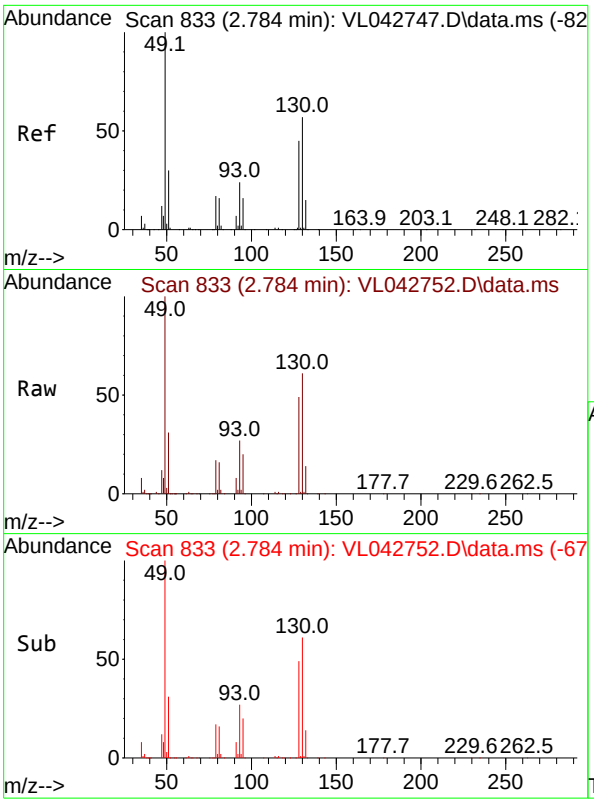
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042752.D
Acq On : 23 Jul 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jul 24 04:59:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration



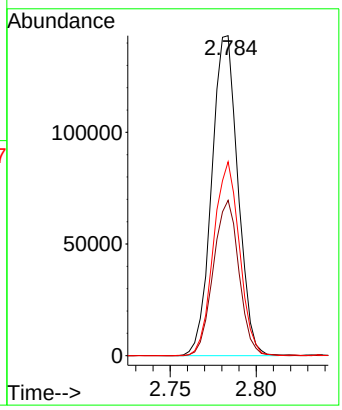


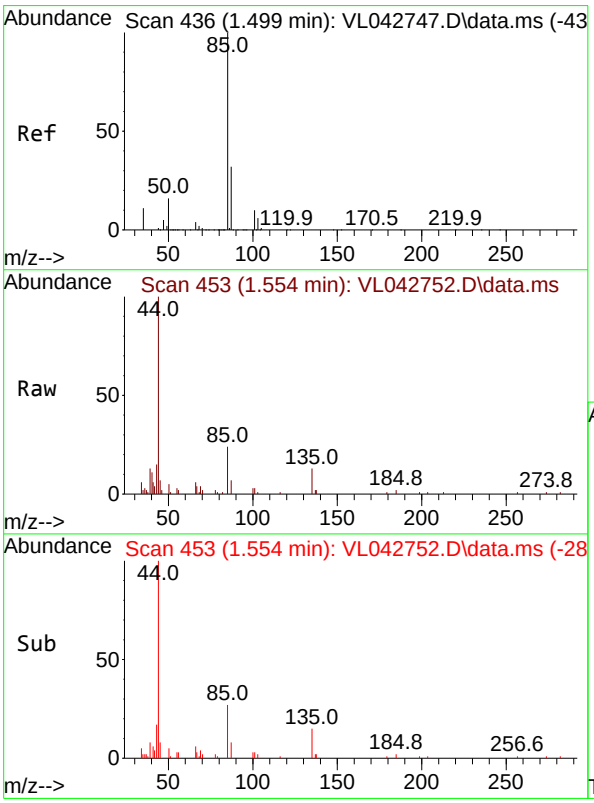
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 151834

Ion	Ratio	Lower	Upper
49	100		
128	47.5	23.6	71.0
130	60.2	30.3	90.8

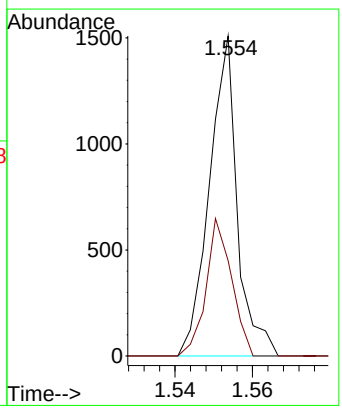


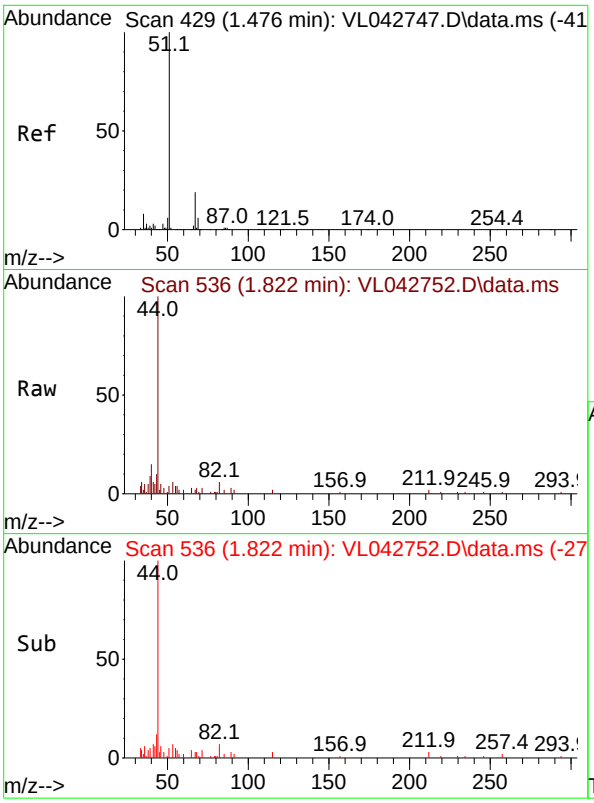


#2
Dichlorodifluoromethane
Concen: 0.038 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.055 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 85 Resp: 753

Ion	Ratio	Lower	Upper
85	100		
87	29.8	25.4	38.2



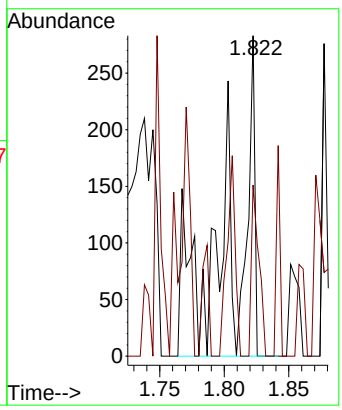


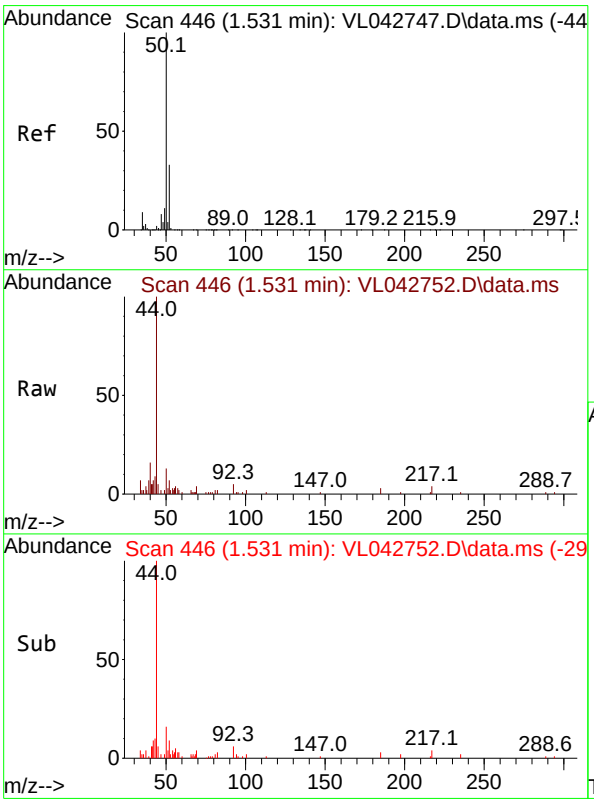
#3
Chlorodifluoromethane
Concen: 0.013 ppbv
RT: 1.822 min Scan# 5
Delta R.T. 0.346 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 51 Resp: 331

Ion	Ratio	Lower	Upper
51	100		
67	18.7	15.0	22.6

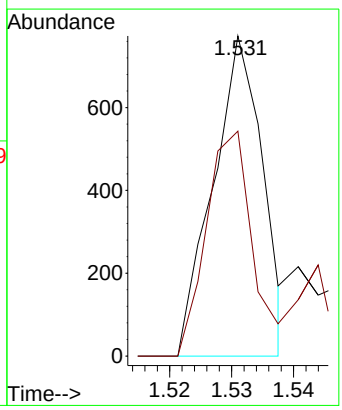


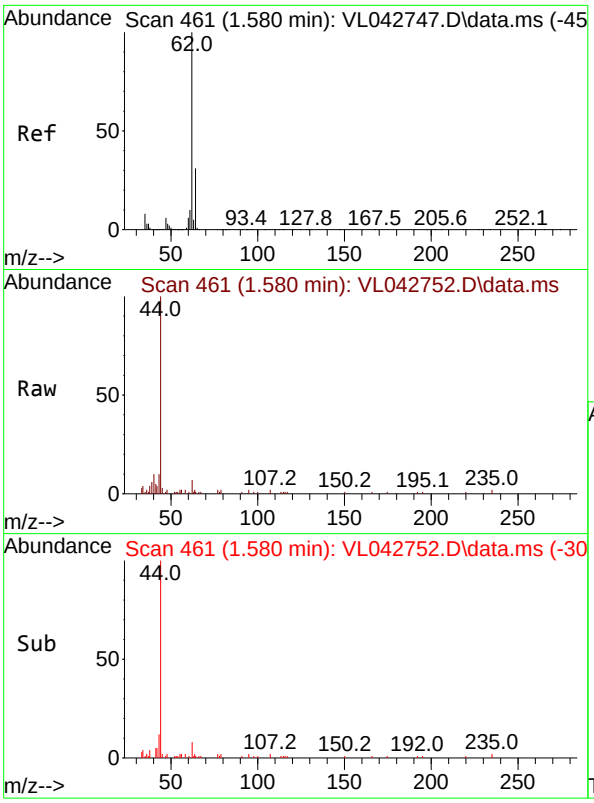


#4
Chloromethane
Concen: 0.053 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 50 Resp: 432

Ion	Ratio	Lower	Upper
50	100		
52	70.2	26.6	40.0#



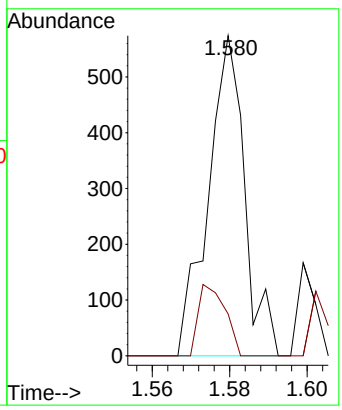


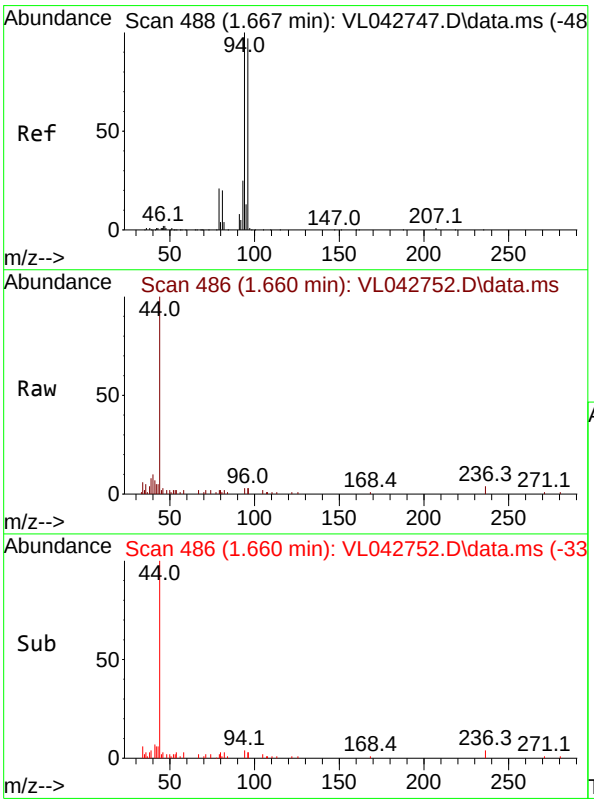
#5
Vinyl Chloride
Concen: 0.047 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 62 Resp: 376

Ion	Ratio	Lower	Upper
62	100		
64	13.1	24.5	36.7#

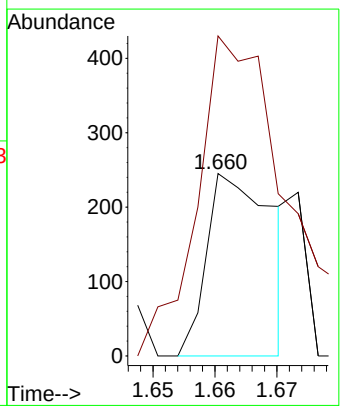


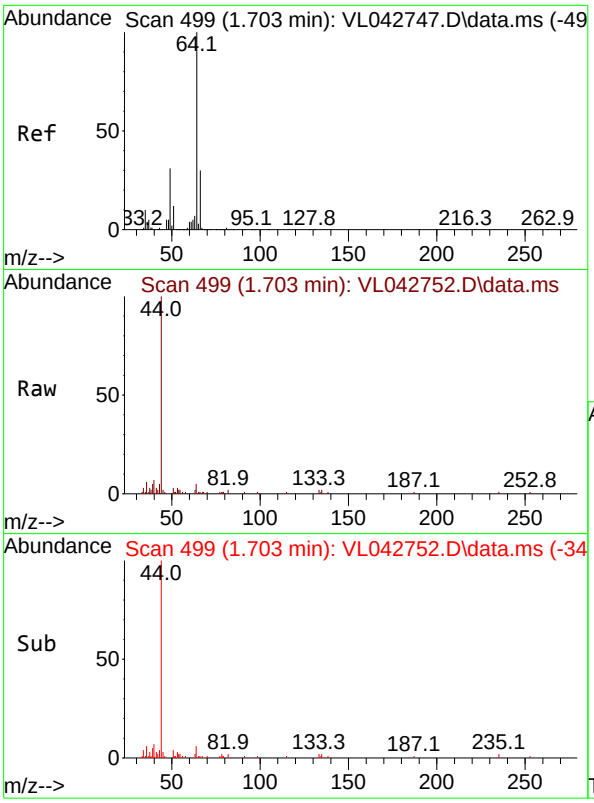


#6
Bromomethane
Concen: 0.058 ppbv
RT: 1.660 min Scan# 486
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 94 Resp: 181

Ion	Ratio	Lower	Upper
94	100		
96	144.9	77.6	116.4#



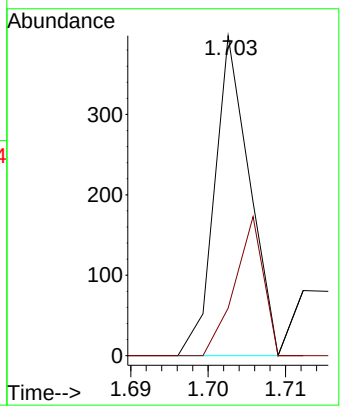


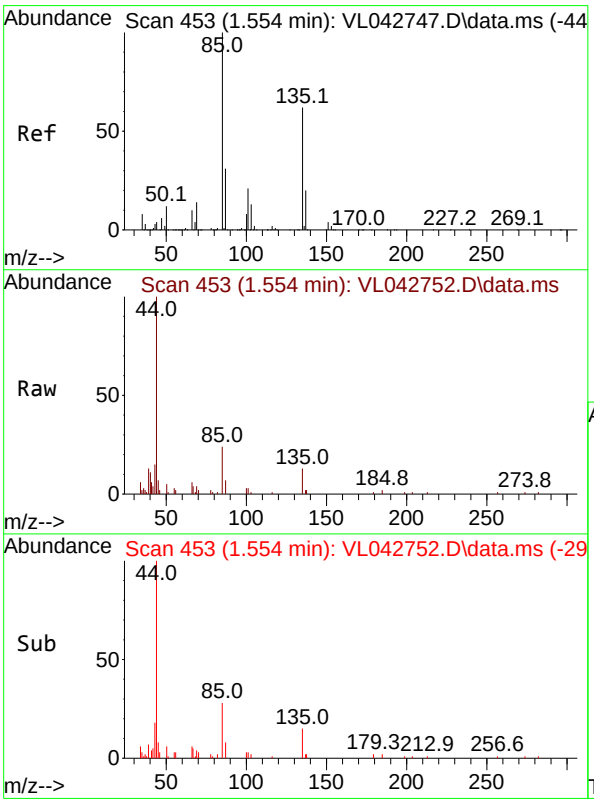
#7
Chloroethane
Concen: 0.040 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 64 Resp: 125

Ion	Ratio	Lower	Upper
64	100		
66	14.8	24.1	36.1#

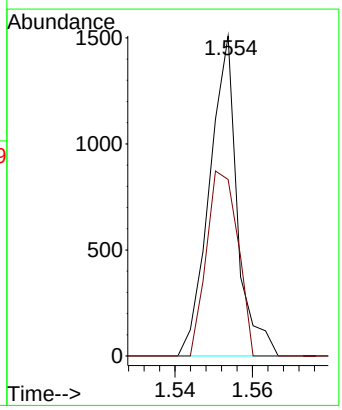


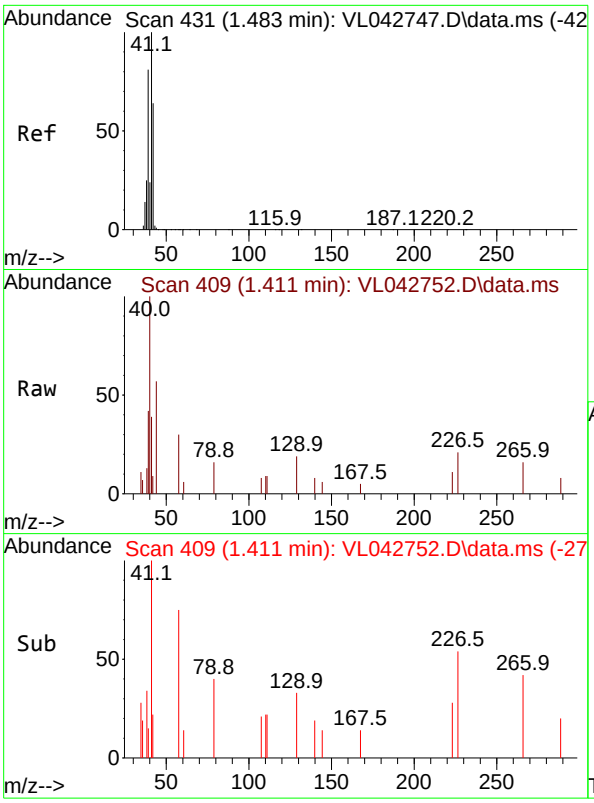


#8
Dichlorotetrafluoroethane
Concen: 0.046 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 85 Resp: 753

Ion	Ratio	Lower	Upper
85	100		
135	65.1	50.6	76.0



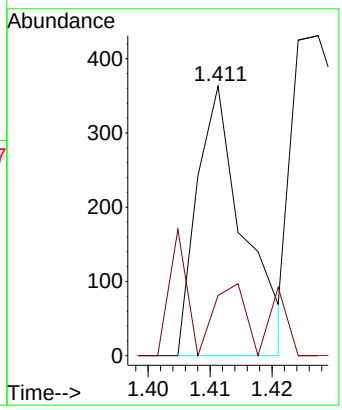


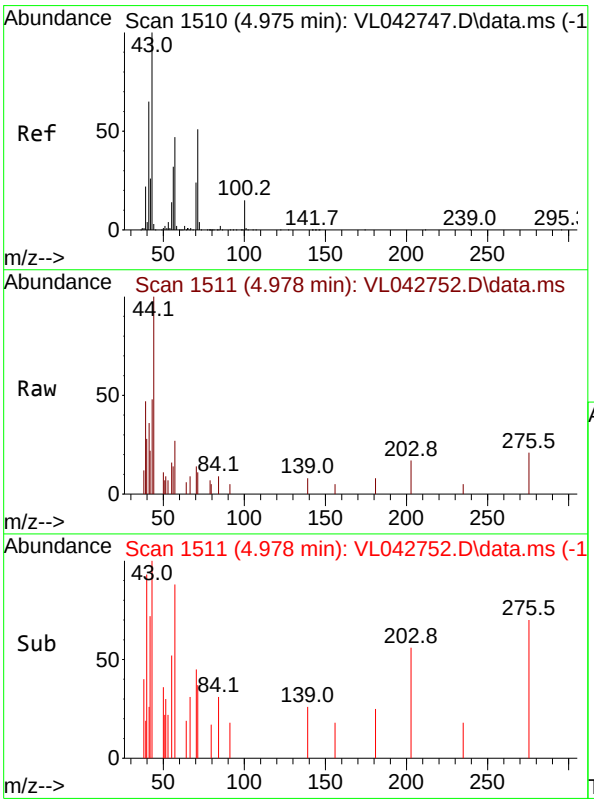
#9
Propene
Concen: 0.020 ppbv
RT: 1.411 min Scan# 4
Delta R.T. -0.071 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 41 Resp: 190

Ion	Ratio	Lower	Upper
41	100		
42	57.9	53.2	79.8

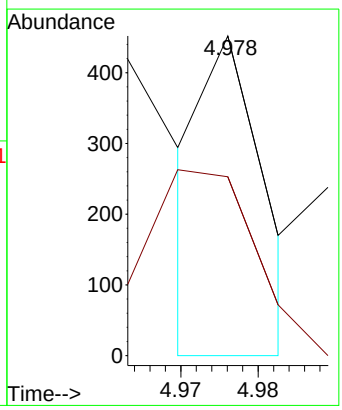


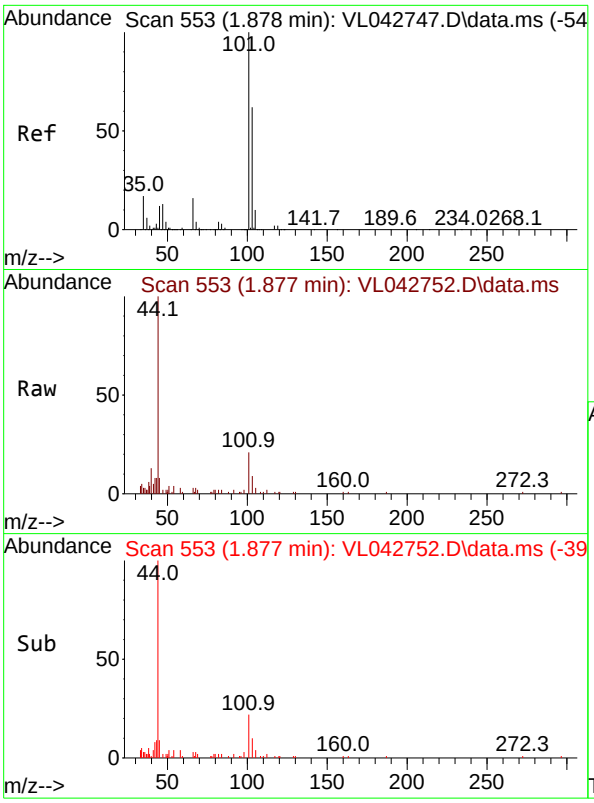


#10
Heptane
Concen: 0.005 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 43 Resp: 121

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.9	59.9#



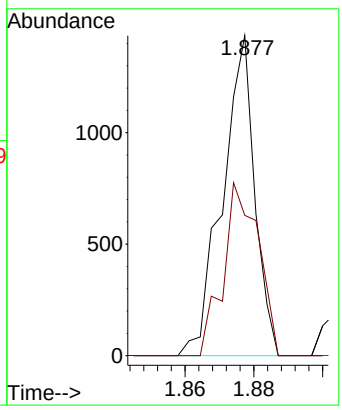


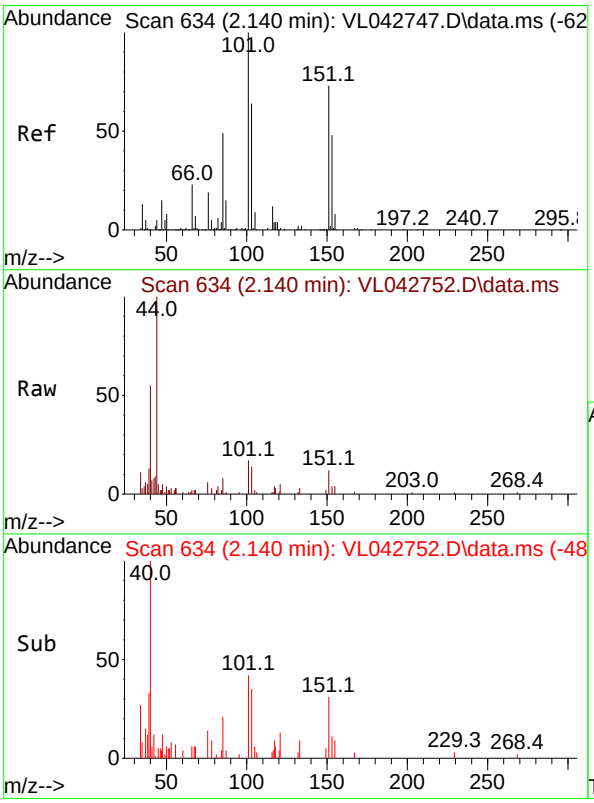
#11
Trichlorofluoromethane
Concen: 0.045 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:101 Resp: 936

Ion	Ratio	Lower	Upper
101	100		
103	43.8	49.6	74.4#

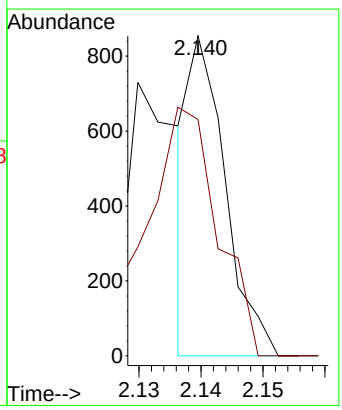


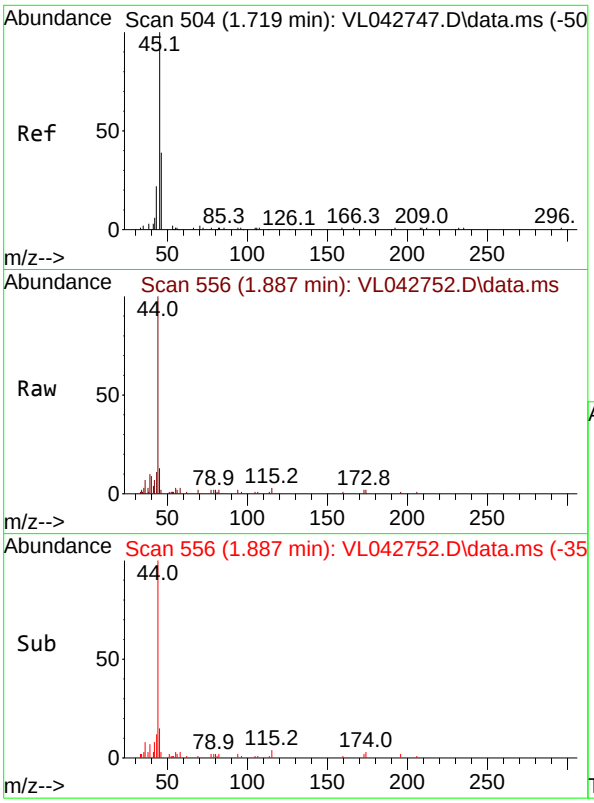


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.022 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:101 Resp: 345

Ion	Ratio	Lower	Upper
101	100		
151	154.5	60.5	90.7#



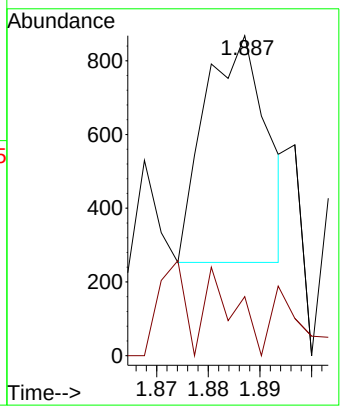


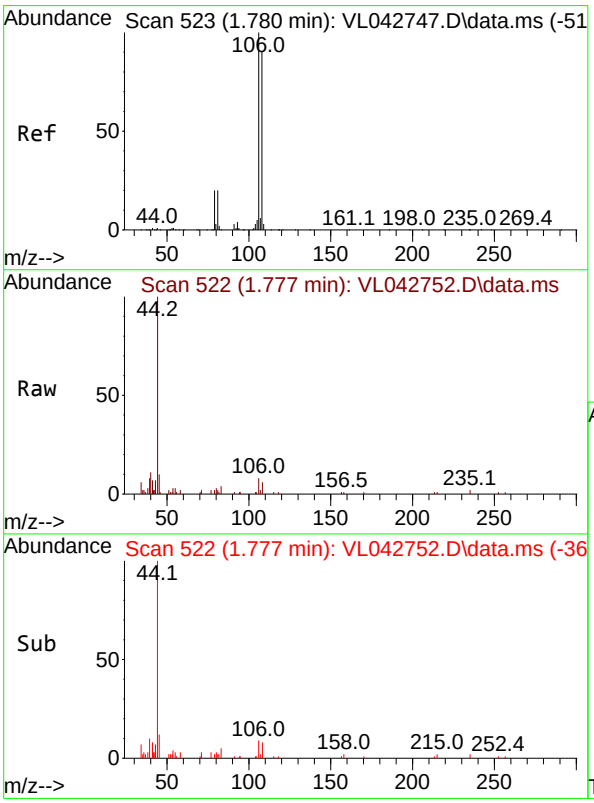
#13
Ethanol
Concen: Below Cal
RT: 1.887 min Scan# 5
Delta R.T. 0.168 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 511

Ion	Ratio	Lower	Upper
45	100		
46	146.4	17.8	71.4#

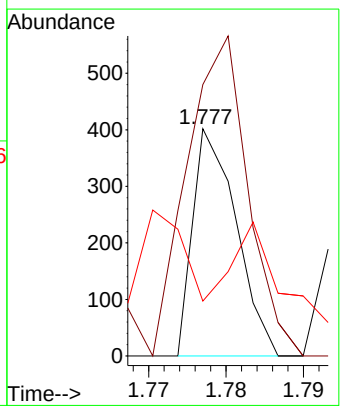


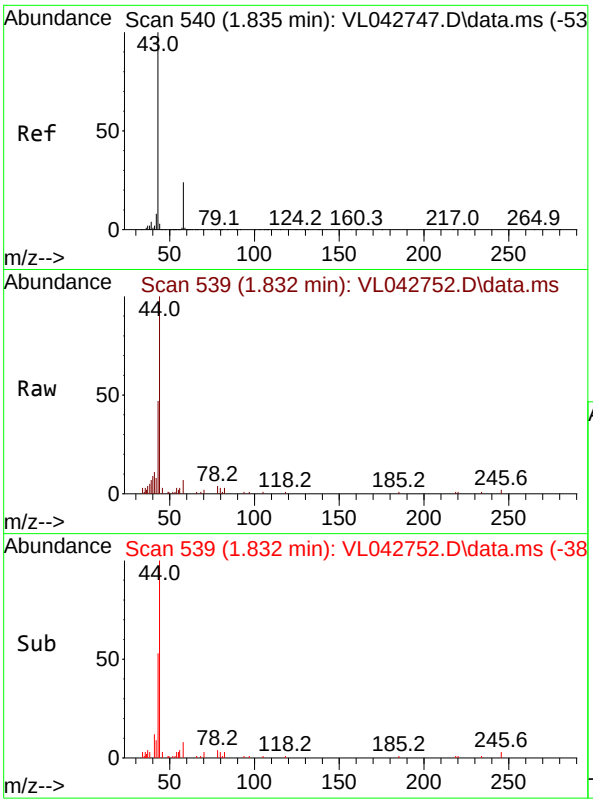


#14
Bromoethene
Concen: 0.028 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:108 Resp: 156

Ion	Ratio	Lower	Upper
108	100		
106	219.2	84.7	127.1#
79	223.7	17.4	26.2#



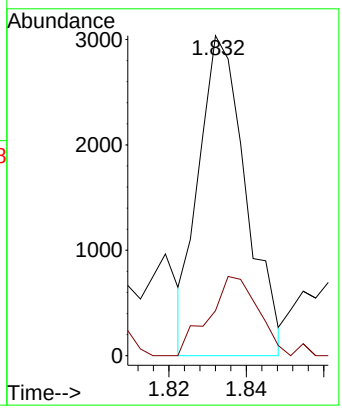


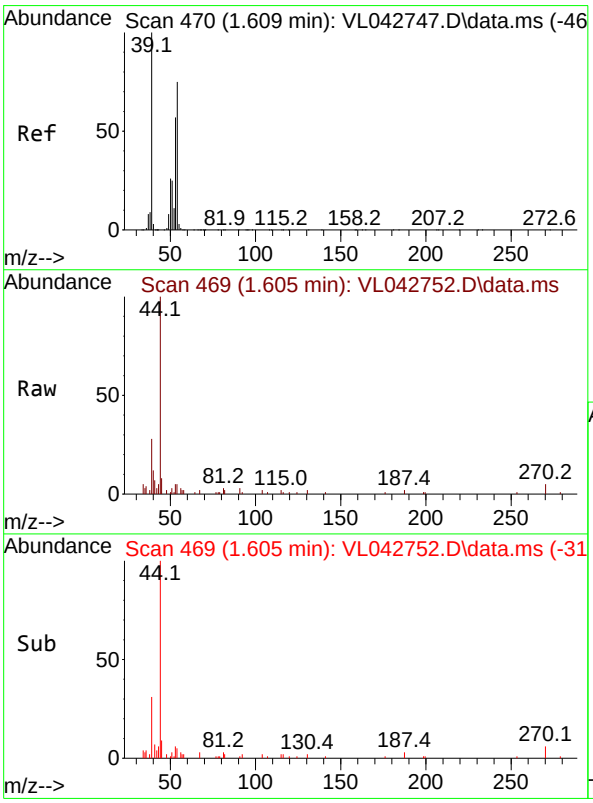
#15
Acetone
Concen: 0.122 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 2557

Ion	Ratio	Lower	Upper
43	100		
58	29.5	19.8	29.8

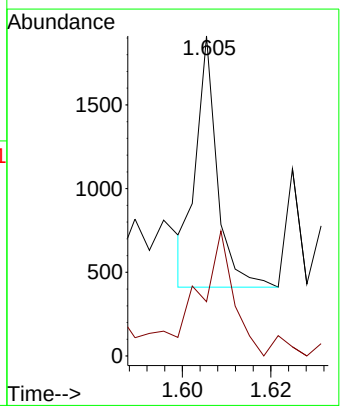


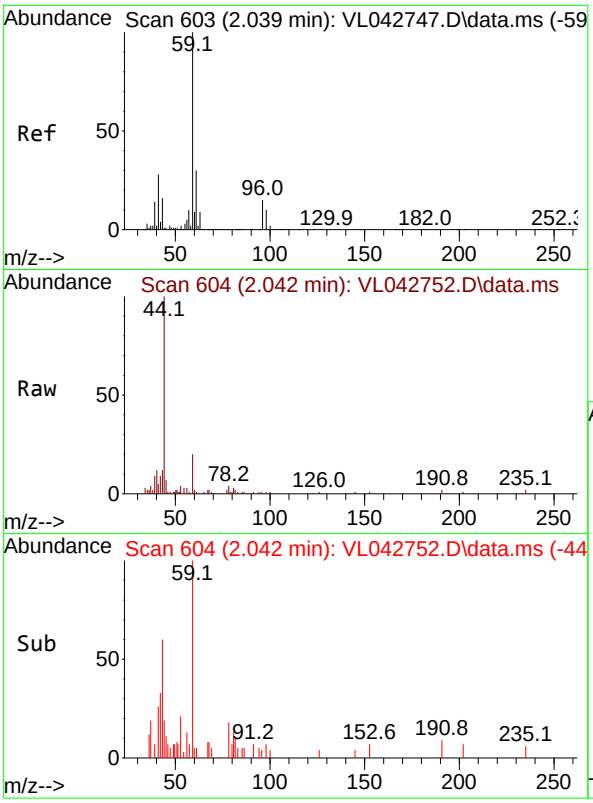


#16
1,3-Butadiene
Concen: 0.056 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 39 Resp: 502

Ion	Ratio	Lower	Upper
39	100		
54	142.8	54.5	81.7#



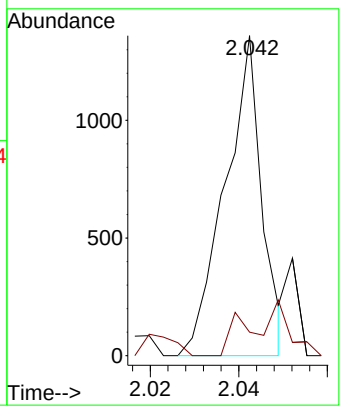


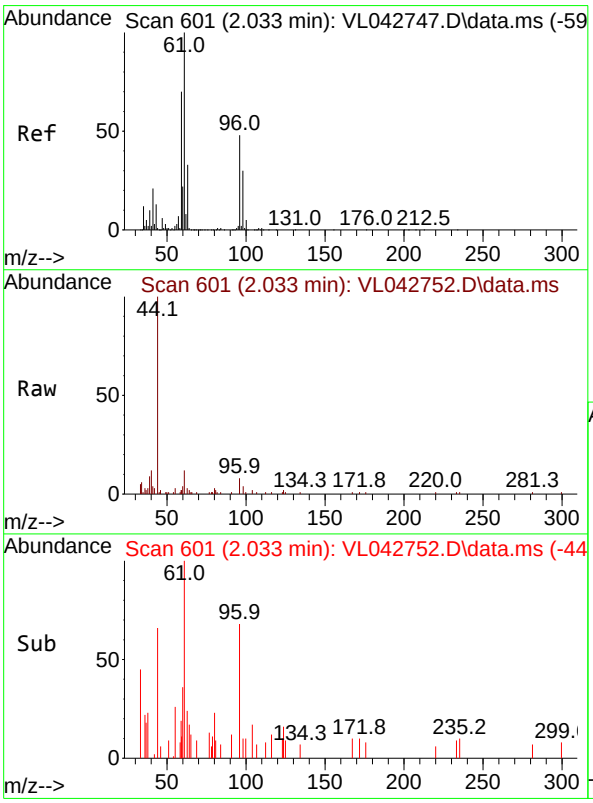
#17
tert-Butyl alcohol
Concen: 0.041 ppbv
RT: 2.042 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 59 Resp: 782

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5#

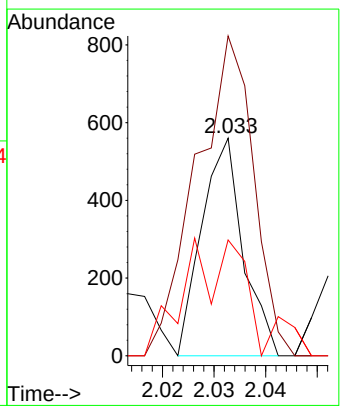


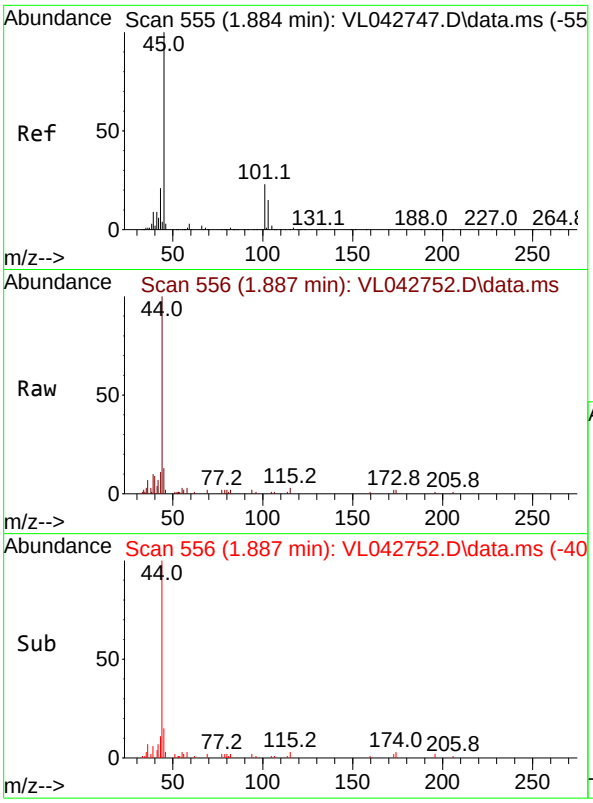


#18
1,1-Dichloroethene
Concen: 0.044 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 96 Resp: 312

Ion	Ratio	Lower	Upper
96	100		
61	135.9	165.8	248.6#
98	38.4	49.9	74.9#



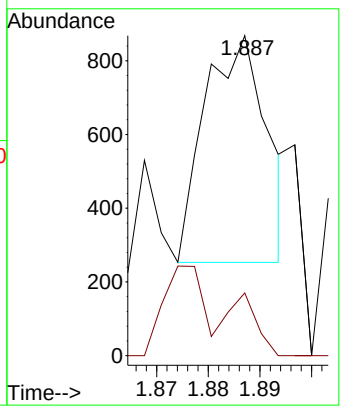


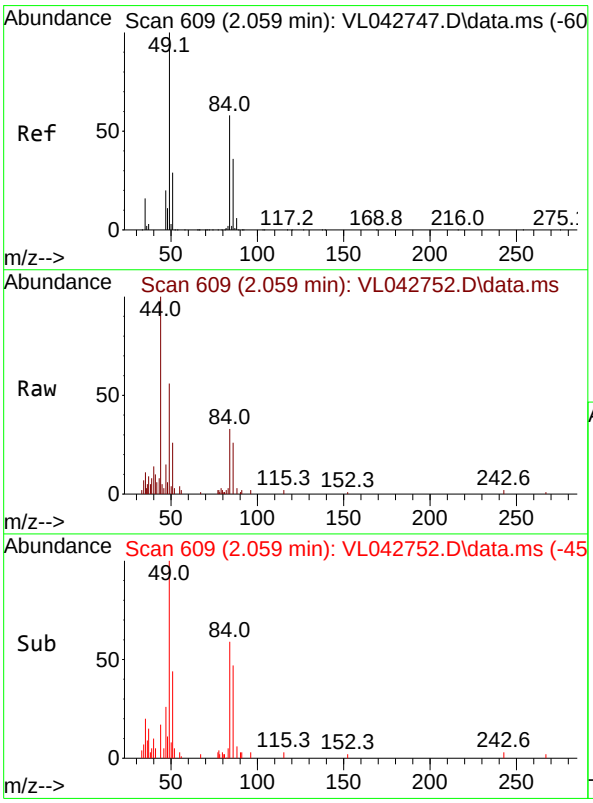
#19
Isopropyl Alcohol
Concen: 0.046 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 511

Ion	Ratio	Lower	Upper
45	100		
58	38.9	30.0	45.0

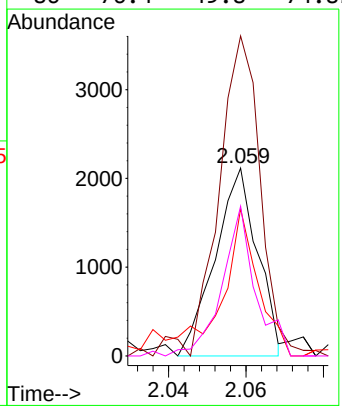


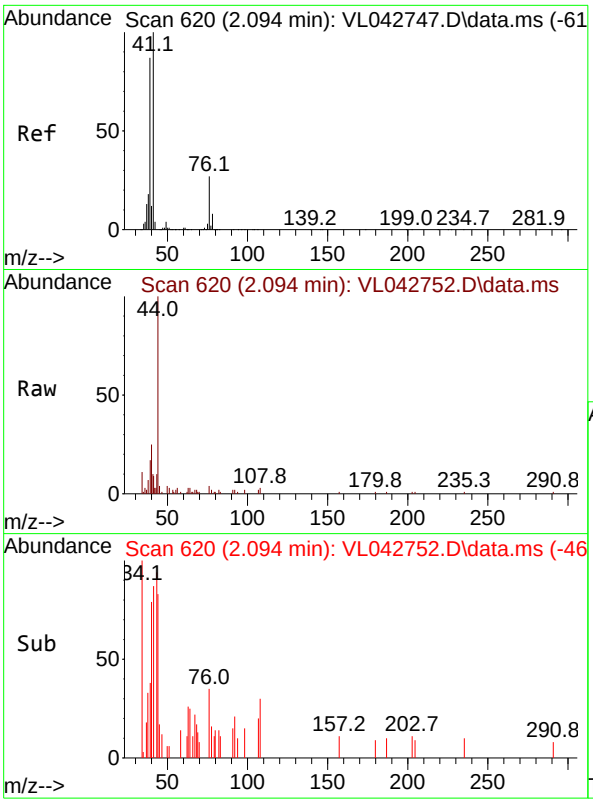


#20
Methylene Chloride
Concen: 0.243 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 84 Resp: 1607

Ion	Ratio	Lower	Upper
84	100		
49	161.5	138.6	208.0
51	68.3	40.6	61.0#
86	76.4	49.8	74.8#



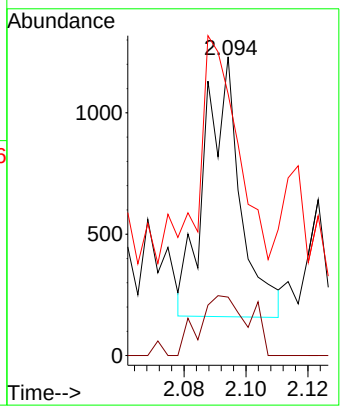


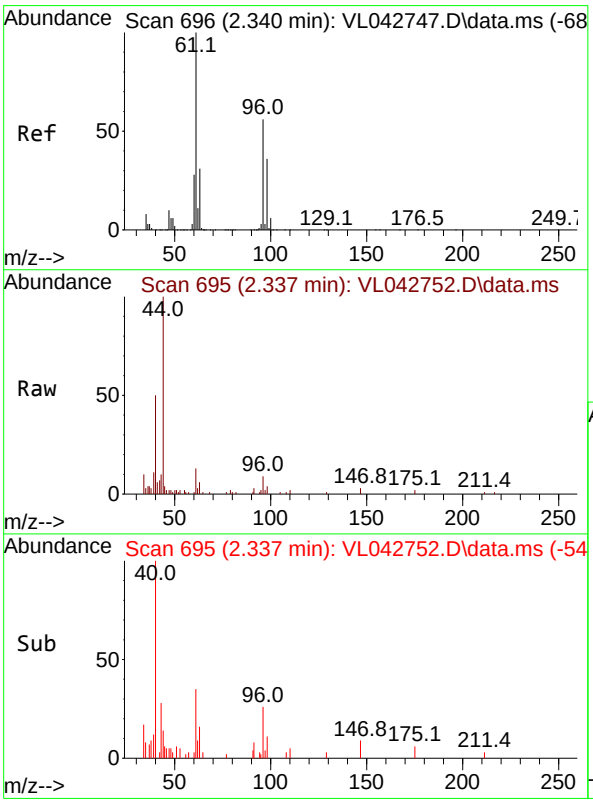
#21
Allyl Chloride
Concen: 0.066 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 41 Resp: 856

Ion	Ratio	Lower	Upper
41	100		
76	35.0	21.1	31.7#
39	167.2	68.3	102.5#

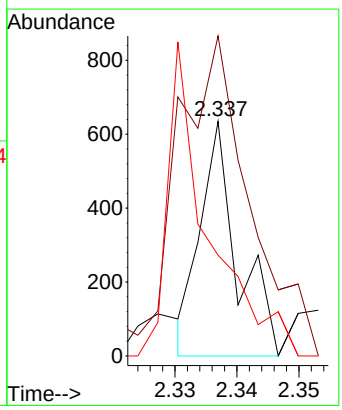


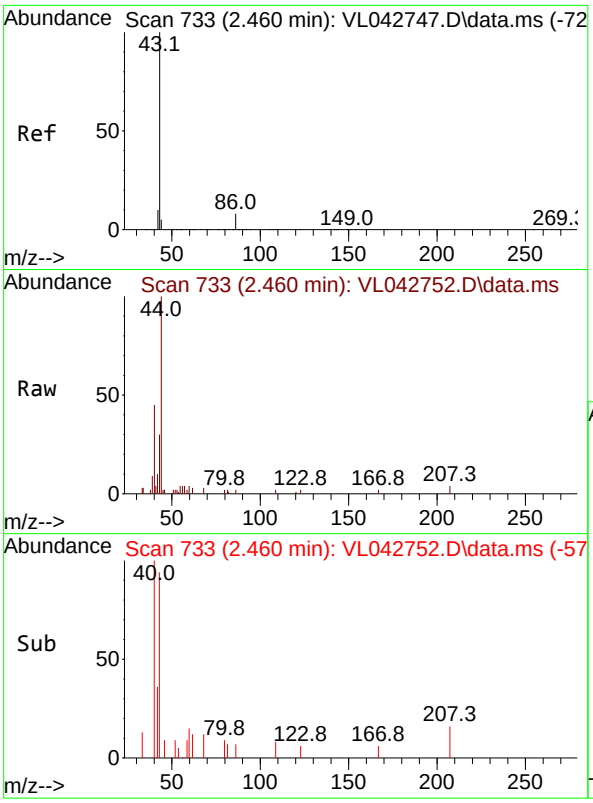


#22
trans-1,2-Dichloroethene
Concen: 0.034 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 96 Resp: 263

Ion	Ratio	Lower	Upper
96	100		
61	108.2	142.3	213.5#
98	24.1	50.6	76.0#



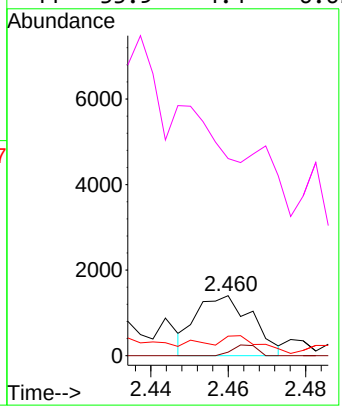


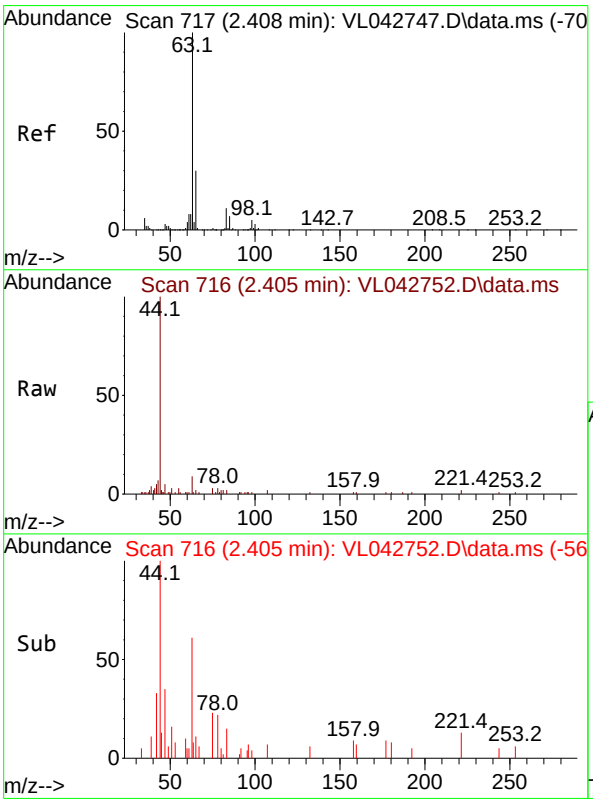
#23
Vinyl Acetate
Concen: 0.055 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 1410

Ion	Ratio	Lower	Upper
43	100		
86	7.1	6.1	9.1
42	24.7	7.8	11.8#
44	33.9	4.4	6.6#

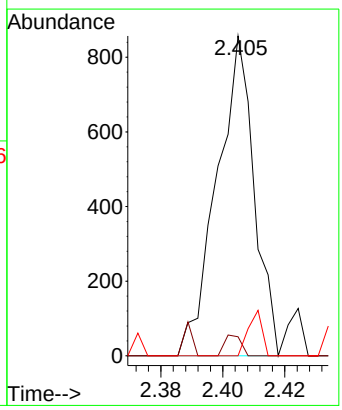


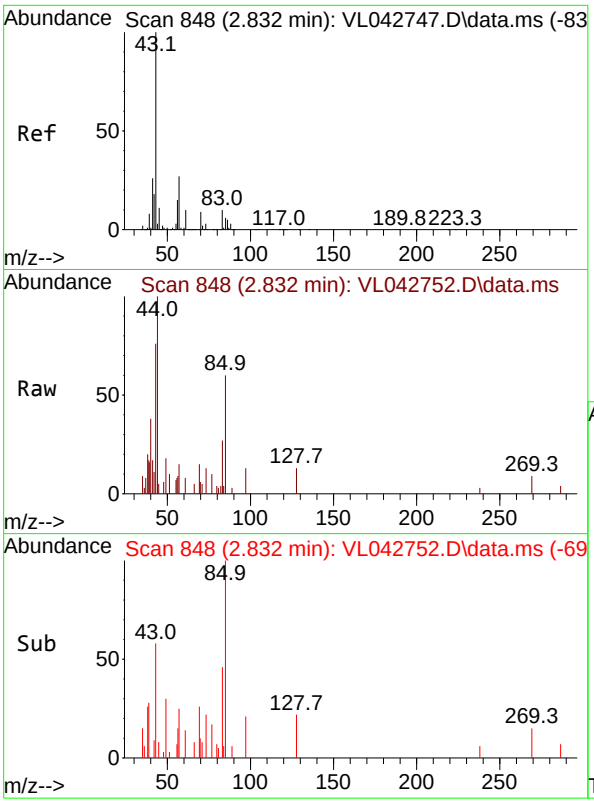


#24
1,1-Dichloroethane
Concen: 0.046 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 63 Resp: 715

Ion	Ratio	Lower	Upper
63	100		
98	6.0	2.5	7.4
100	0.0	1.6	4.8#



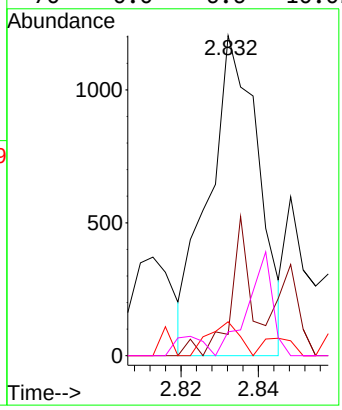


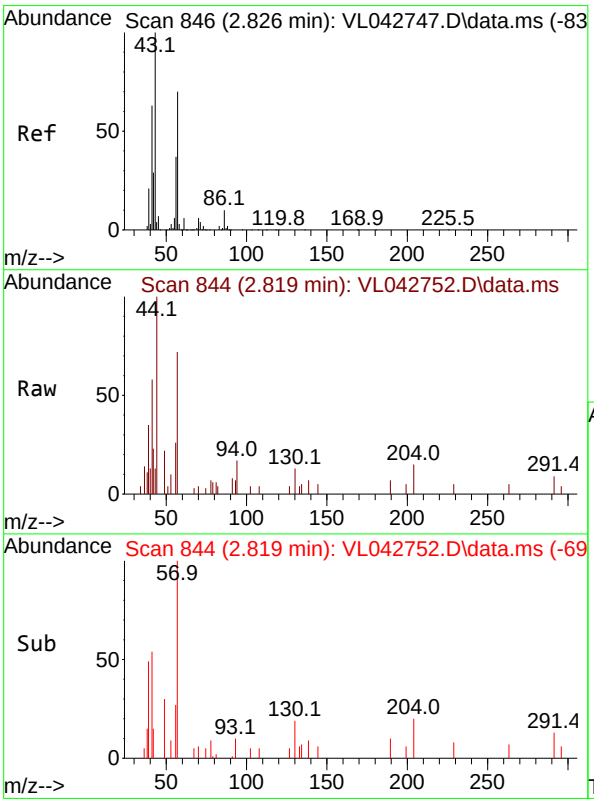
#25
Ethyl Acetate
Concen: 0.023 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 1085

Ion	Ratio	Lower	Upper
43	100		
45	29.7	7.8	11.6#
61	0.0	6.7	10.1#
70	0.0	6.6	10.0#

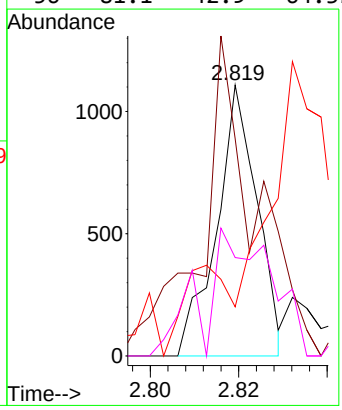


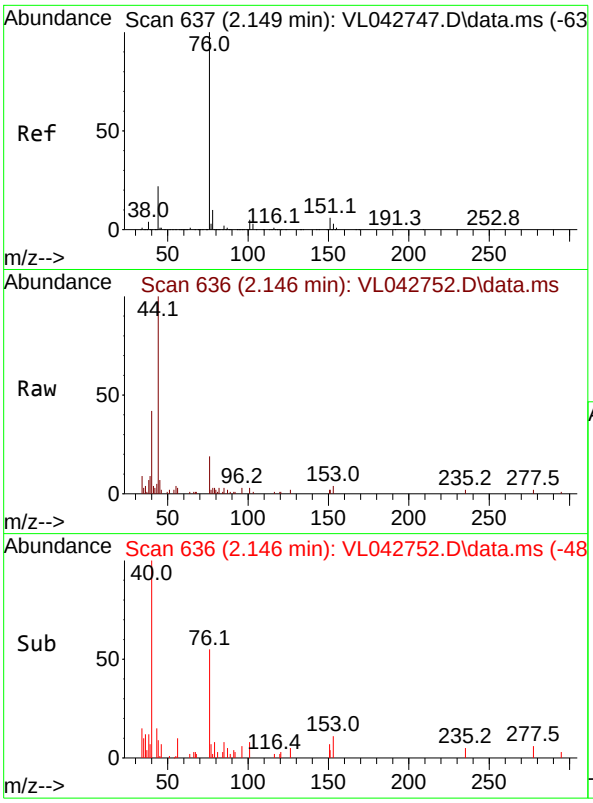


#26
Hexane
Concen: 0.035 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 57 Resp: 704

Ion	Ratio	Lower	Upper
57	100		
41	174.3	75.4	113.2#
43	0.0	185.0	277.6#
56	81.1	42.9	64.3#



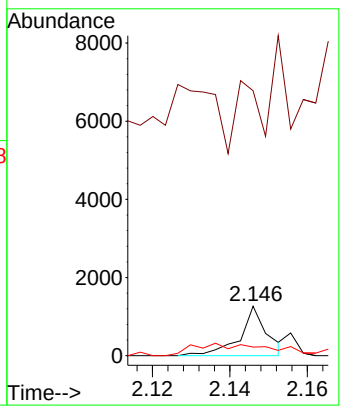


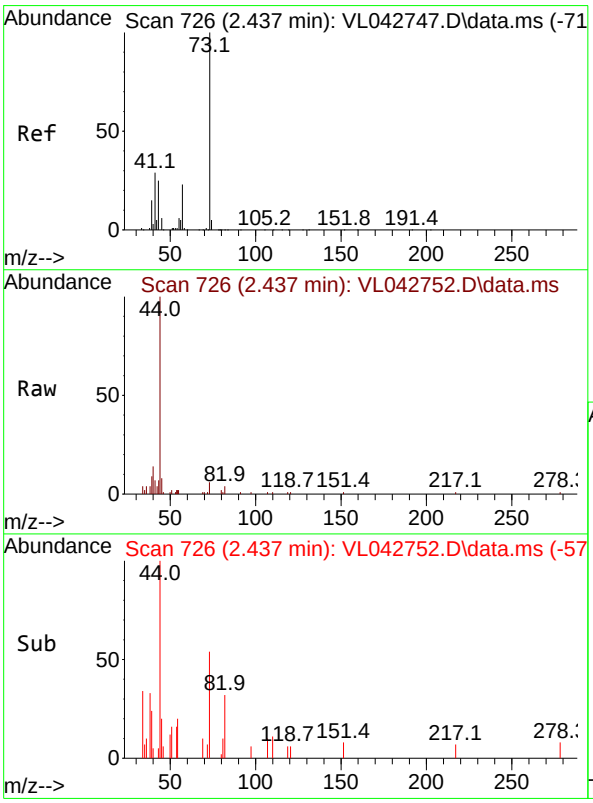
#27
Carbon Disulfide
Concen: 0.035 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 76 Resp: 605

Ion	Ratio	Lower	Upper
76	100		
44	958.2	19.3	28.9#
78	90.7	9.9	14.9#

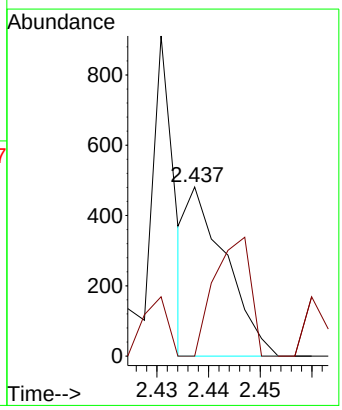


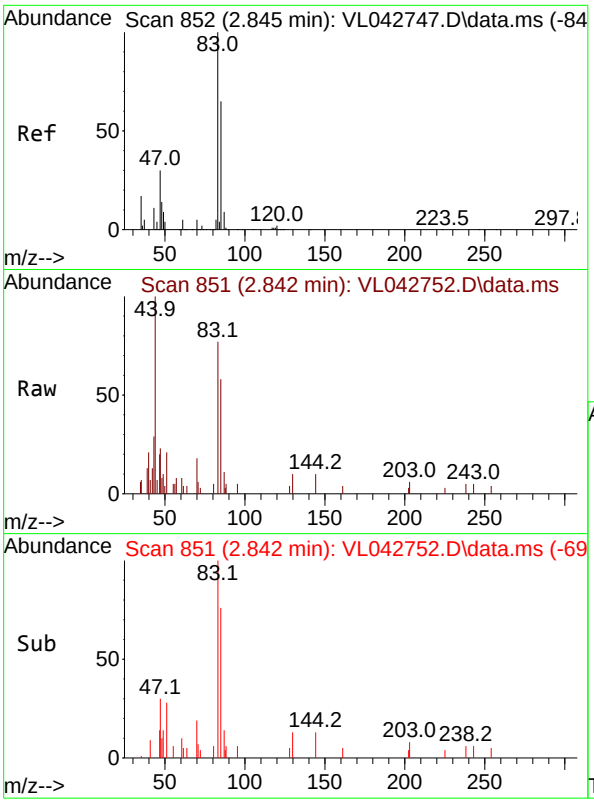


#28
Methyl tert-Butyl Ether
Concen: 0.026 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 73 Resp: 249

Ion	Ratio	Lower	Upper
73	100		
57	153.8	19.8	29.8#



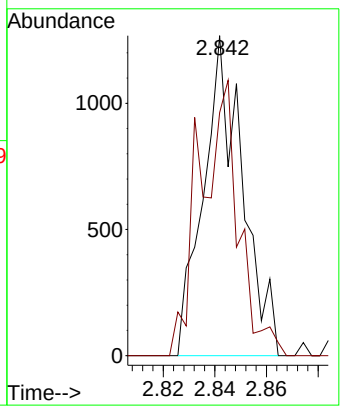


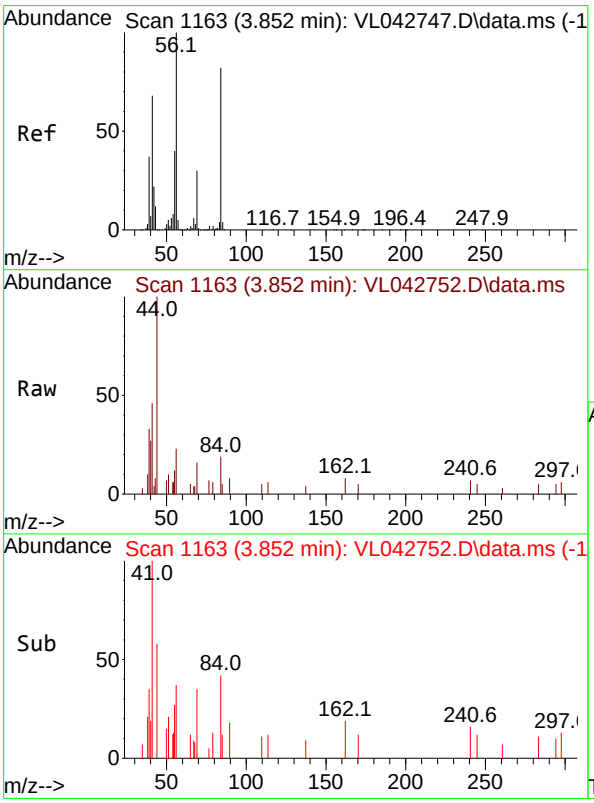
#29
Chloroform
Concen: 0.042 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 83 Resp: 1324

Ion	Ratio	Lower	Upper
83	100		
85	71.8	52.2	78.2

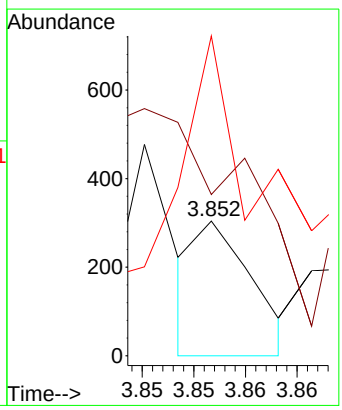


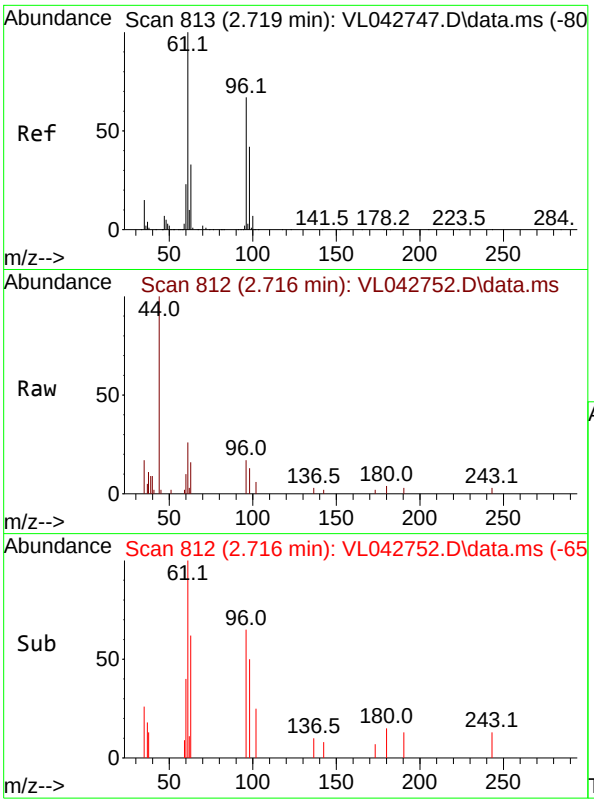


#30
Cyclohexane
Concen: 0.007 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 84 Resp: 115

Ion	Ratio	Lower	Upper
84	100		
56	0.0	97.5	146.3#
41	1088.7	67.2	100.8#



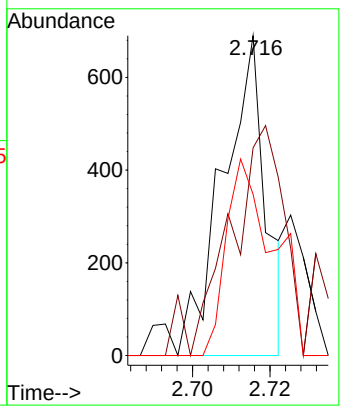


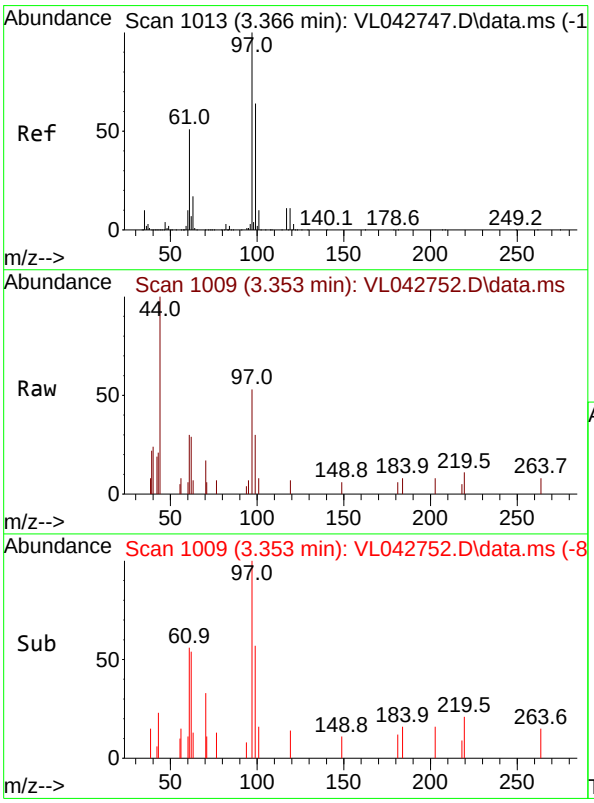
#31
cis-1,2-Dichloroethene
Concen: 0.025 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 61 Resp: 527

Ion	Ratio	Lower	Upper
61	100		
96	46.1	53.5	80.3#
98	50.4	33.6	50.4#

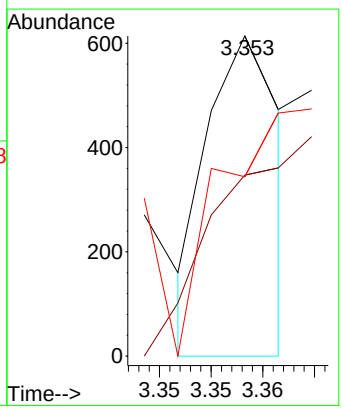


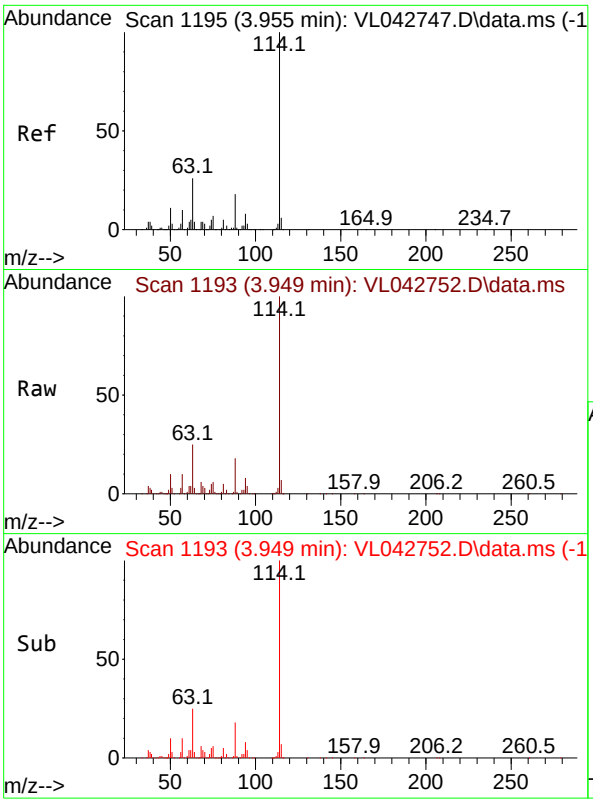


#32
1,1,1-Trichloroethane
Concen: 0.009 ppbv
RT: 3.353 min Scan# 1009
Delta R.T. -0.013 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 97 Resp: 302

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.6#
61	186.1	40.9	61.3#



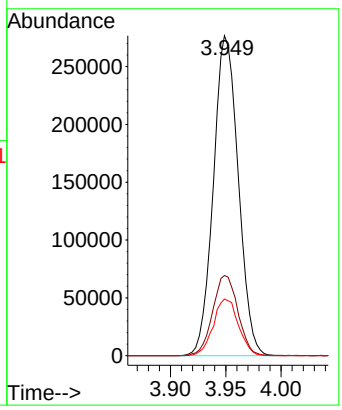


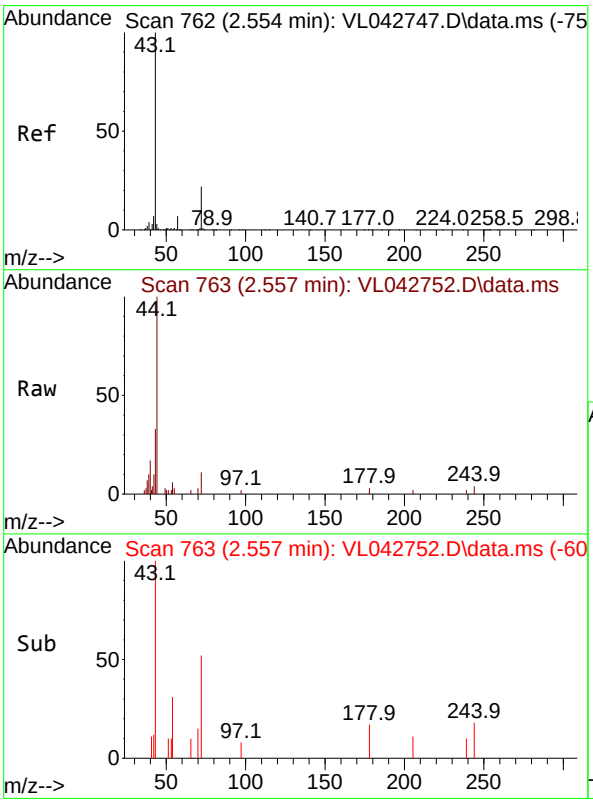
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:114 Resp: 432802

Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.5	30.7
88	17.9	14.0	21.0

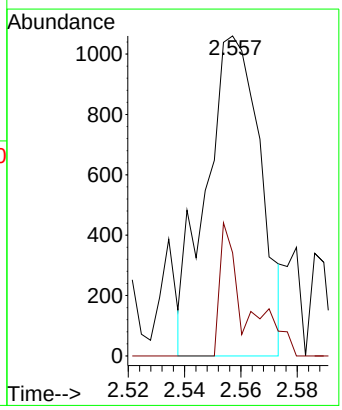


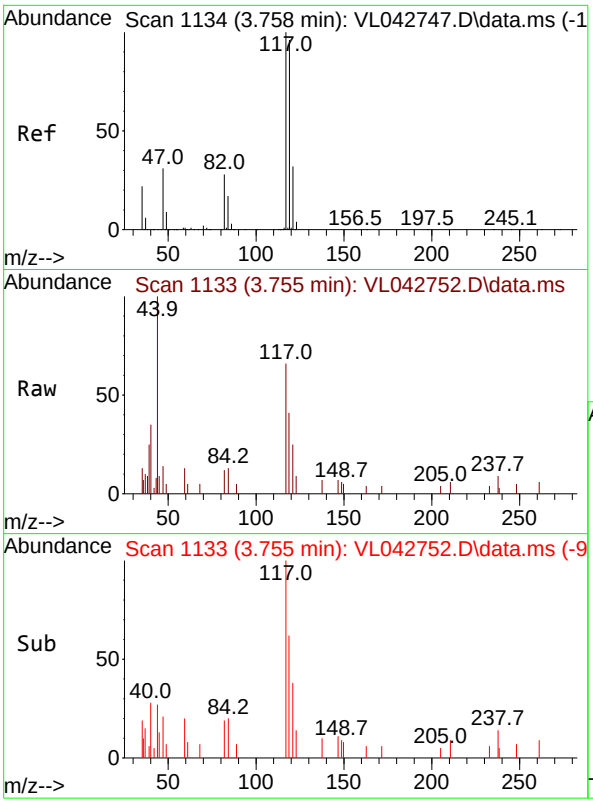


#34
2-Butanone
Concen: 0.046 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 43 Resp: 1423

Ion	Ratio	Lower	Upper
43	100		
72	19.7	17.4	26.0



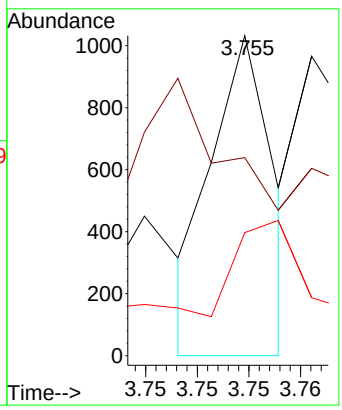


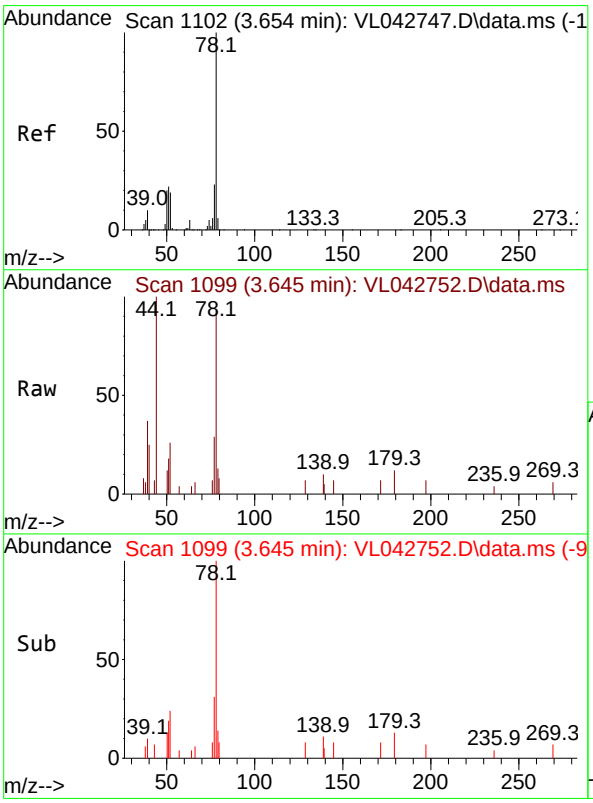
#35
Carbon Tetrachloride
Concen: 0.013 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:117 Resp: 427

Ion	Ratio	Lower	Upper
117	100		
119	23.7	77.1	115.7#
121	33.9	25.5	38.3

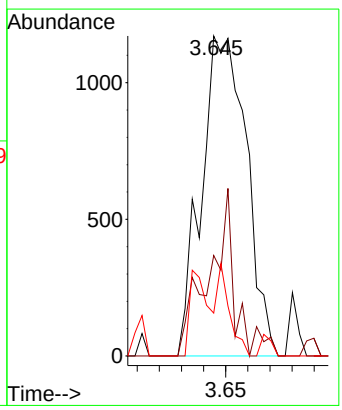


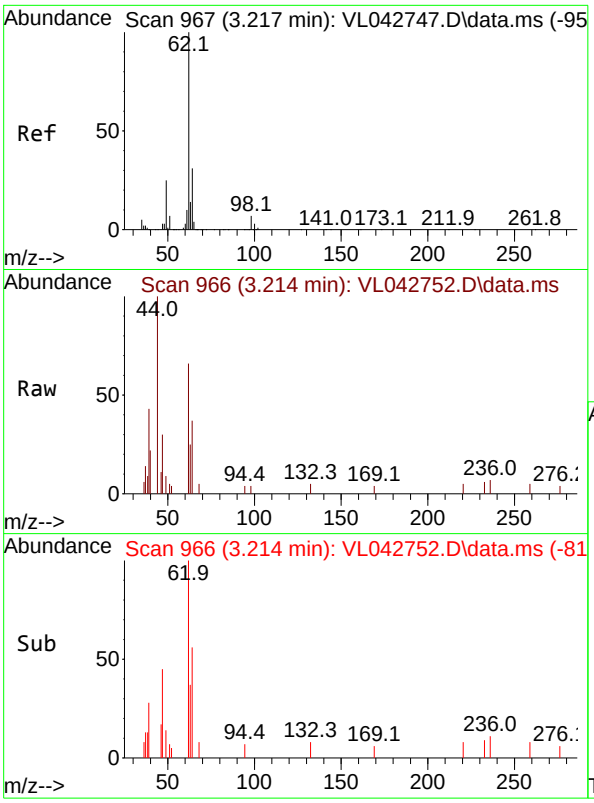


#36
Benzene
Concen: 0.040 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 78 Resp: 1657

Ion	Ratio	Lower	Upper
78	100		
77	31.4	18.5	27.7#
50	13.4	16.2	24.2#



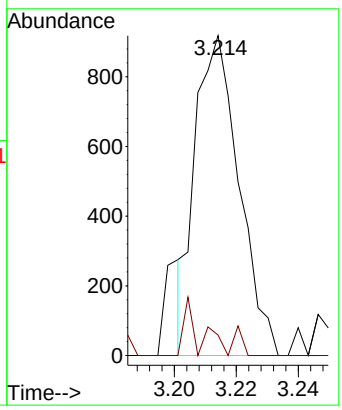


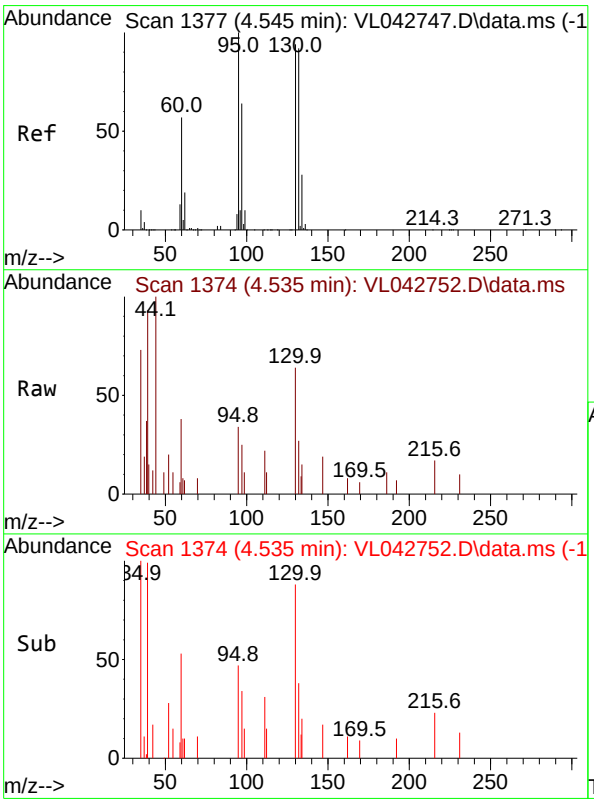
#37
1,2-Dichloroethane
Concen: 0.037 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 62 Resp: 902

Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.2	7.8#

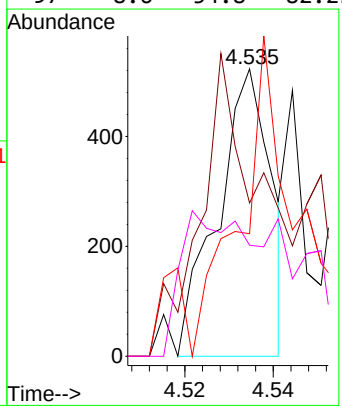


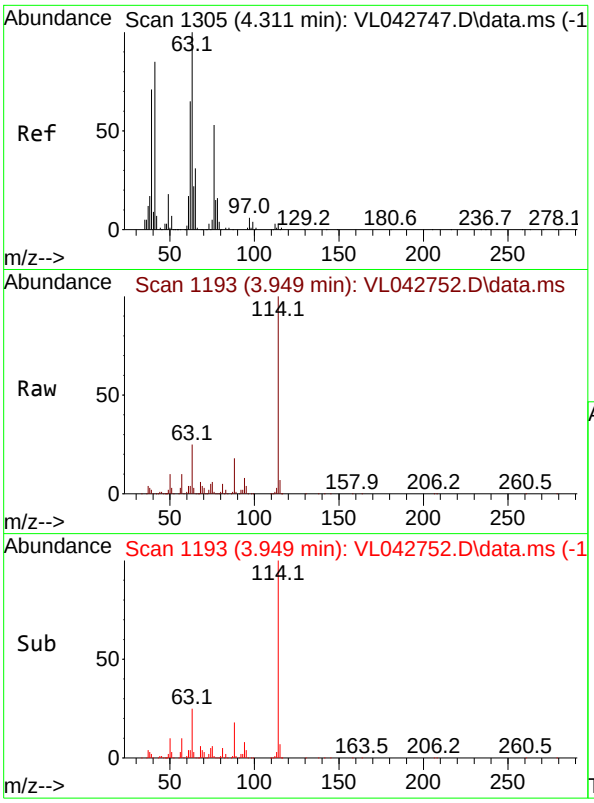


#38
Trichloroethene
Concen: 0.022 ppbv
RT: 4.535 min Scan# 1374
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:130 Resp: 438

Ion	Ratio	Lower	Upper
130	100		
95	38.0	85.4	128.2#
132	11.9	78.2	117.2#
97	8.6	54.8	82.2#



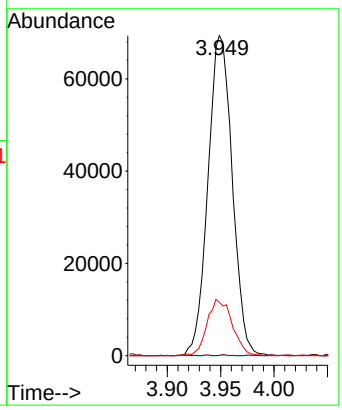


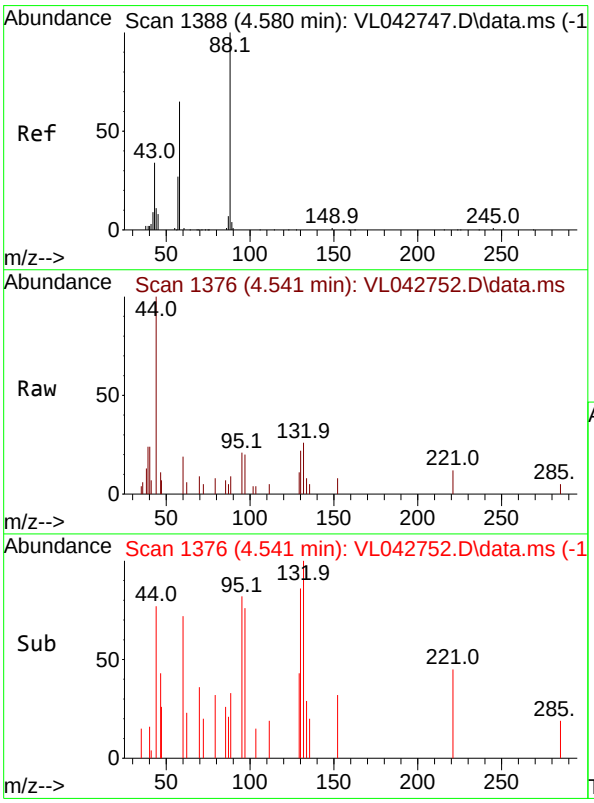
#39
1,2-Dichloropropane
Concen: 7.257 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.363 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 63 Resp: 109883

Ion	Ratio	Lower	Upper
63	100		
41	0.0	68.2	102.4#
62	16.7	52.0	78.0#

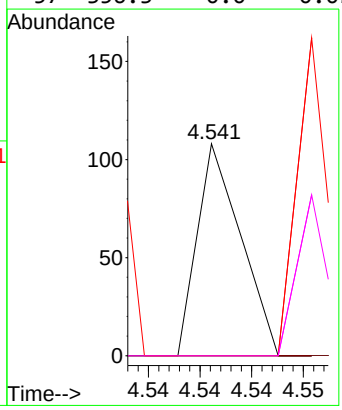


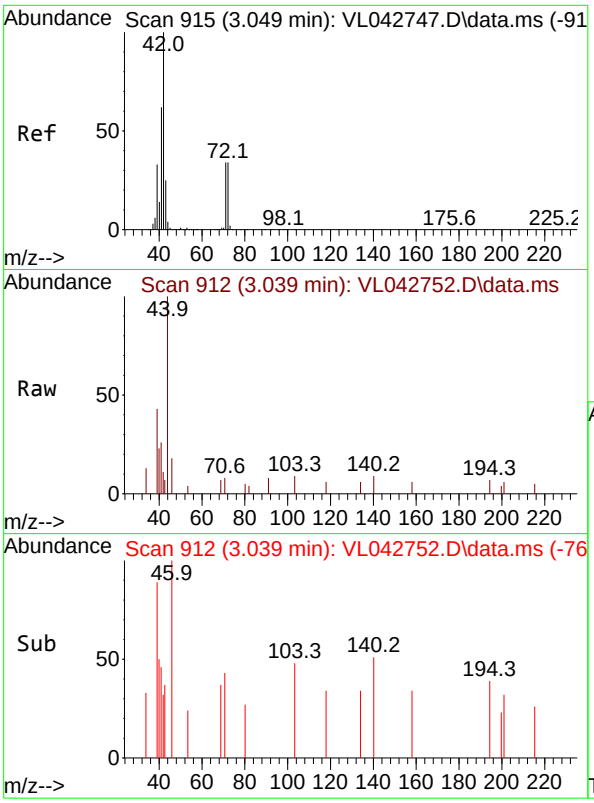


#40
1,4-Dioxane
Concen: 0.004 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.039 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 88 Resp: 32

Ion	Ratio	Lower	Upper
88	100		
58	0.0	58.8	88.2#
43	456.3	28.9	43.3#
57	356.3	0.0	0.0#



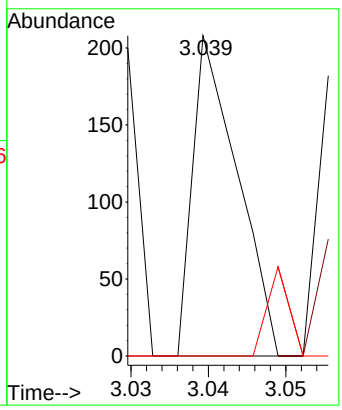


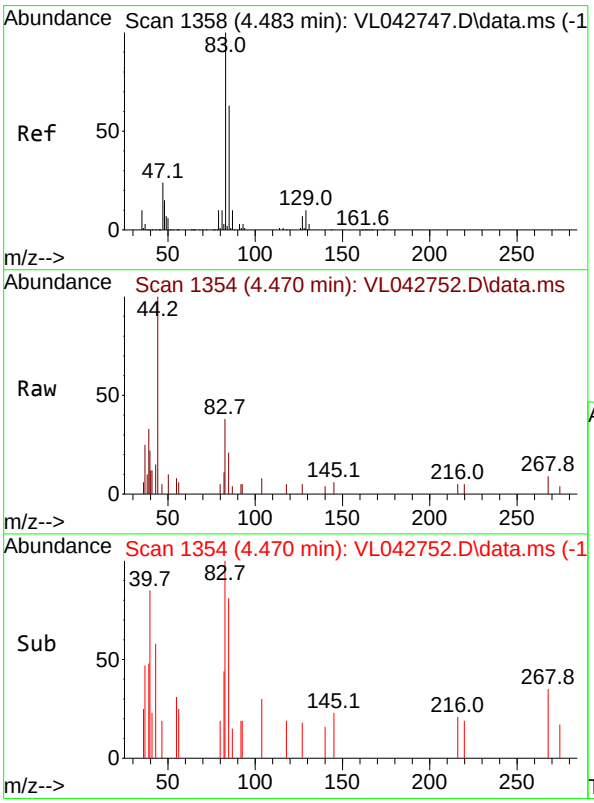
#41
Tetrahydrofuran
Concen: 0.005 ppbv
RT: 3.039 min Scan# 91
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 42 Resp: 84

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	0.0	28.6	43.0#

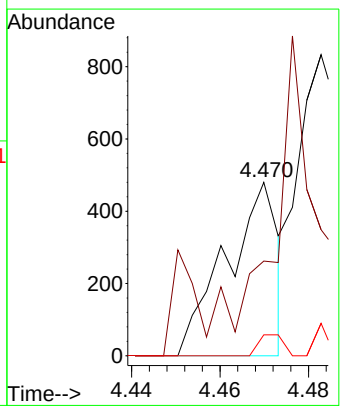


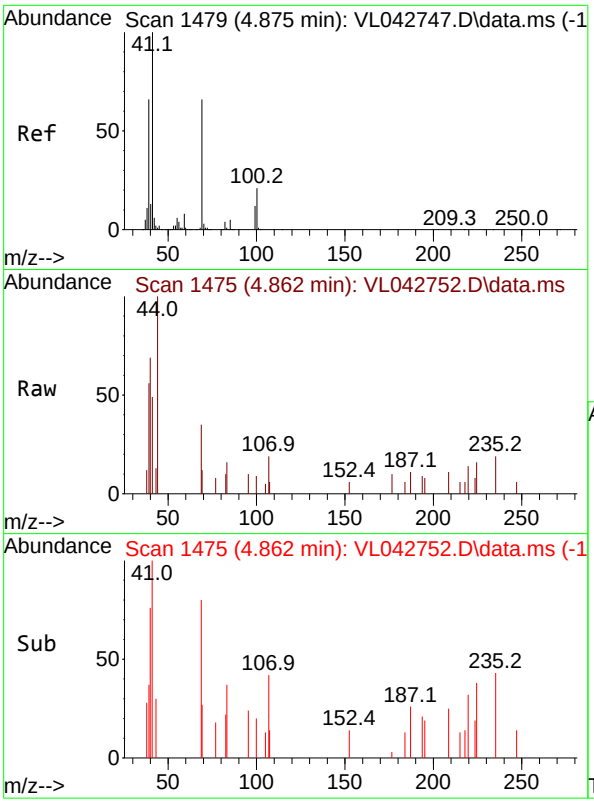


#42
Bromodichloromethane
Concen: 0.012 ppbv
RT: 4.470 min Scan# 1354
Delta R.T. -0.013 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 83 Resp: 390

Ion	Ratio	Lower	Upper
83	100		
85	0.8	50.2	75.4#
127	12.1	5.4	8.2#



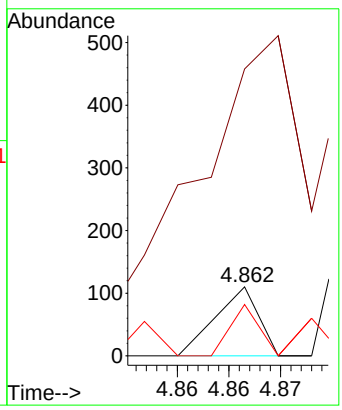


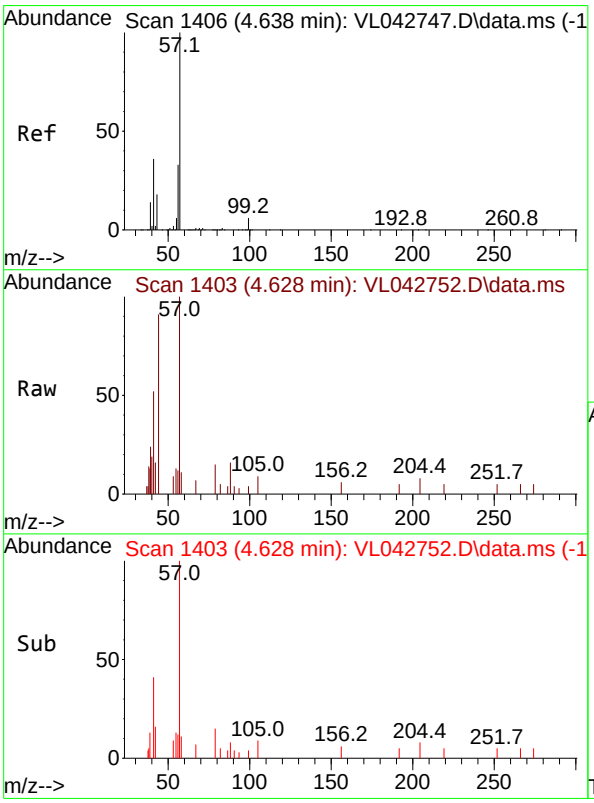
#43
Methyl Methacrylate
Concen: 0.002 ppbv
RT: 4.862 min Scan# 14
Delta R.T. -0.013 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 69 Resp: 32

Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	0.0	28.6	42.8#

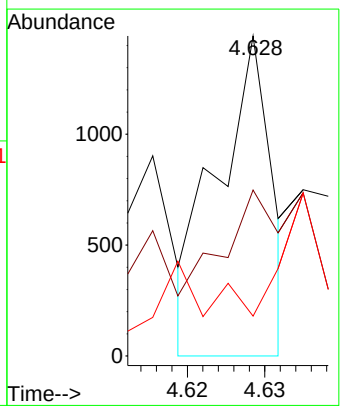


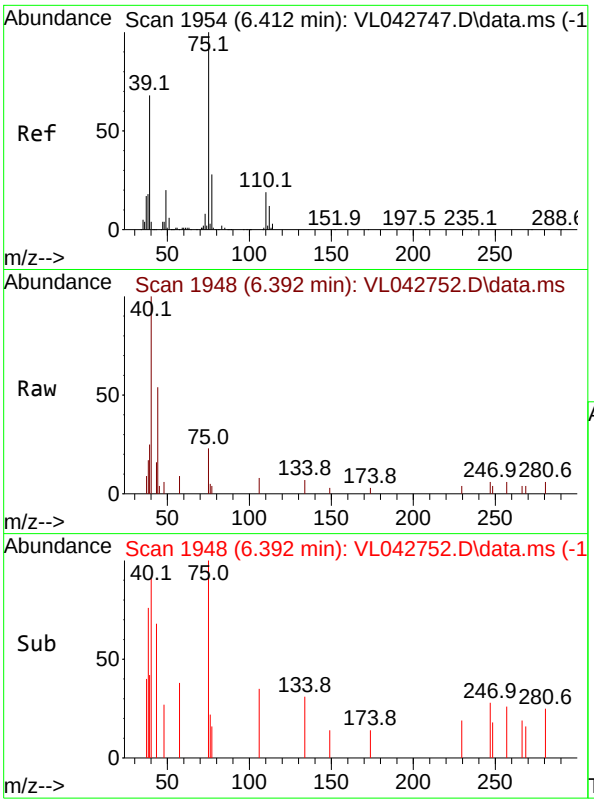


#44
2,2,4-Trimethylpentane
Concen: 0.011 ppbv
RT: 4.628 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 57 Resp: 714

Ion	Ratio	Lower	Upper
57	100		
41	271.0	28.3	42.5#
56	132.9	25.8	38.6#



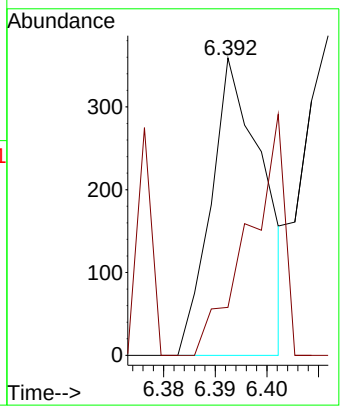


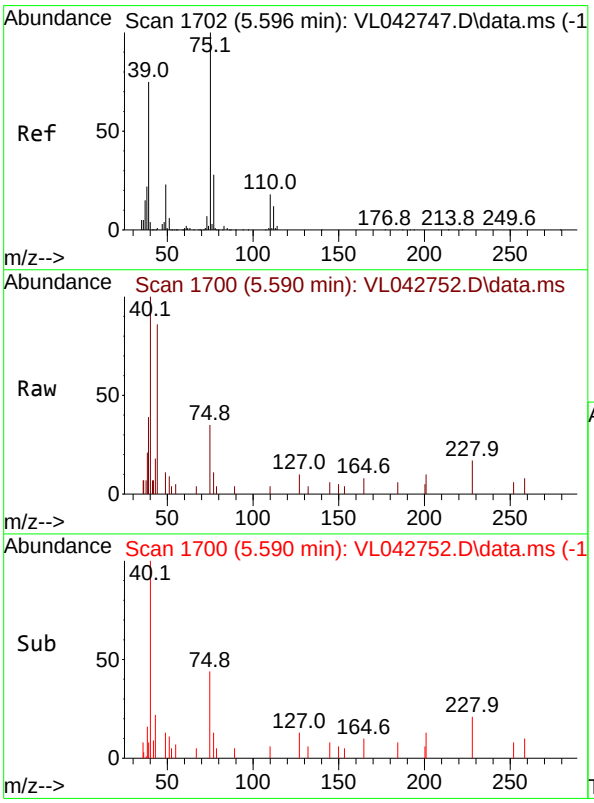
#45
t-1,3-Dichloropropene
Concen: 0.015 ppbv
RT: 6.392 min Scan# 1
Delta R.T. -0.020 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 75 Resp: 252

Ion	Ratio	Lower	Upper
75	100		
77	16.2	22.4	33.6#

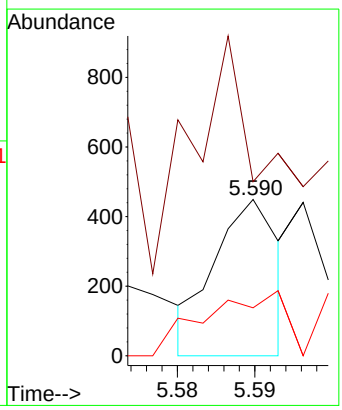


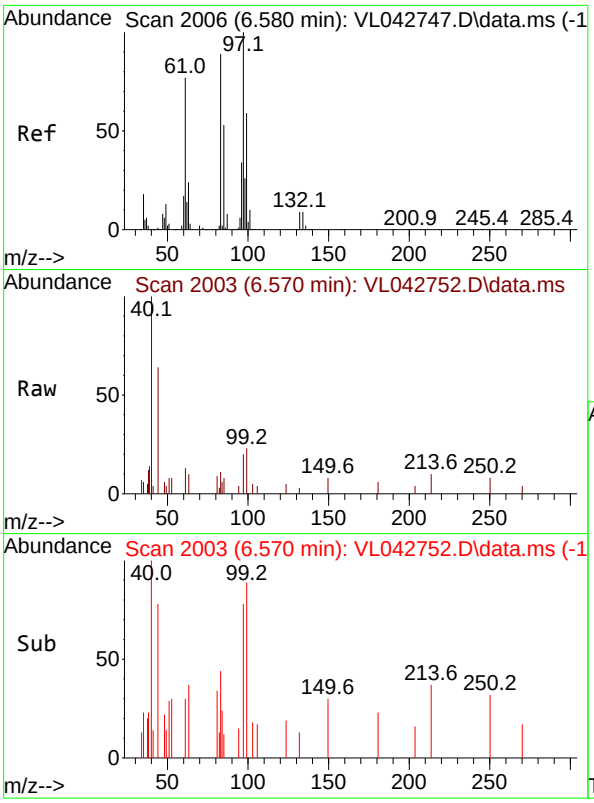


#46
cis-1,3-Dichloropropene
Concen: 0.012 ppbv
RT: 5.590 min Scan# 1700
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 75 Resp: 259

Ion	Ratio	Lower	Upper
75	100		
39	0.0	60.2	90.2#
77	9.9	22.6	34.0#



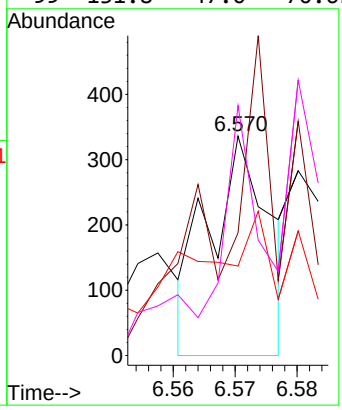


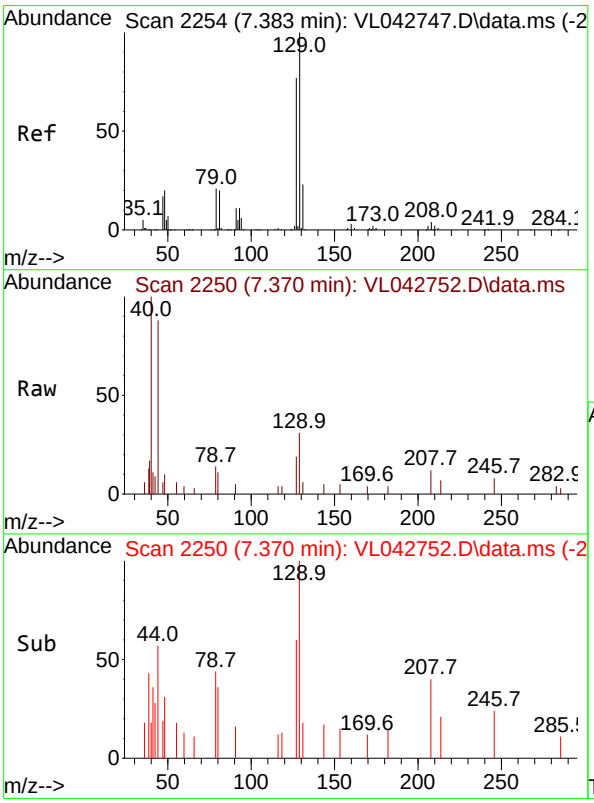
#47
1,1,2-Trichloroethane
Concen: 0.014 ppbv
RT: 6.570 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 97 Resp: 226

Ion	Ratio	Lower	Upper
97	100		
83	33.2	71.1	106.7#
85	23.2	43.0	64.4#
99	131.8	47.0	70.6#

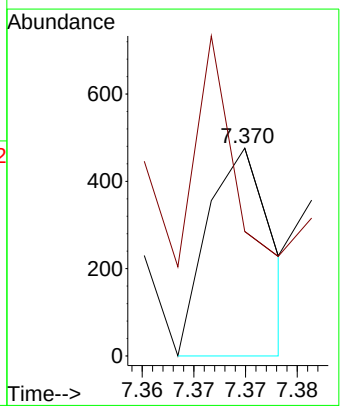


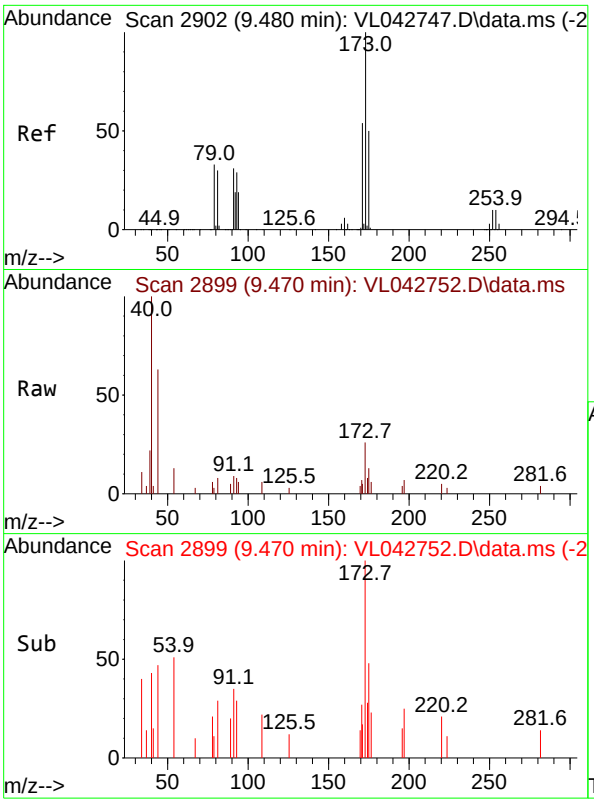


#48
Dibromochloromethane
Concen: 0.008 ppbv
RT: 7.370 min Scan# 2250
Delta R.T. -0.013 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:129 Resp: 206

Ion	Ratio	Lower	Upper
129	100		
127	397.1	38.7	116.1#



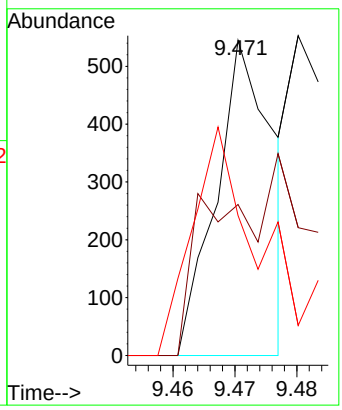


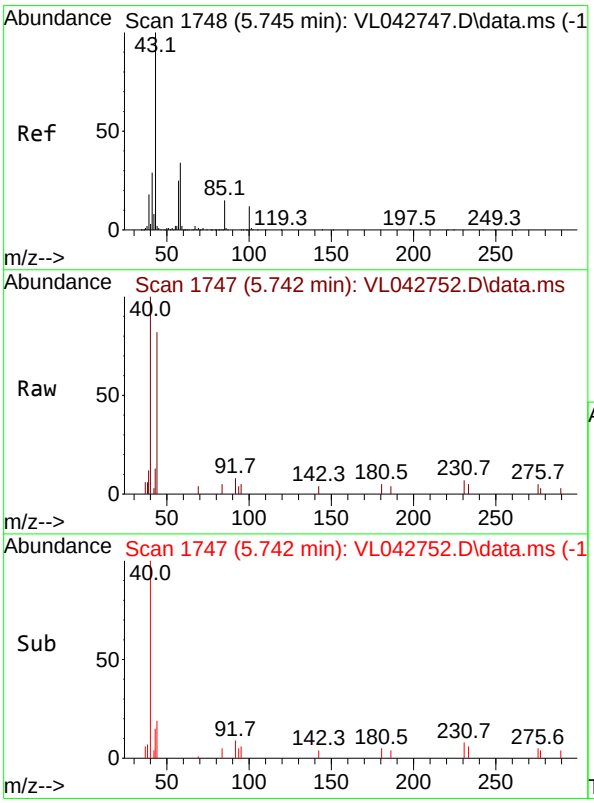
#49
Bromoform
Concen: 0.015 ppbv
RT: 9.470 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:173 Resp: 346

Ion	Ratio	Lower	Upper
173	100		
175	0.0	38.4	57.6#
171	97.1	40.9	61.3#

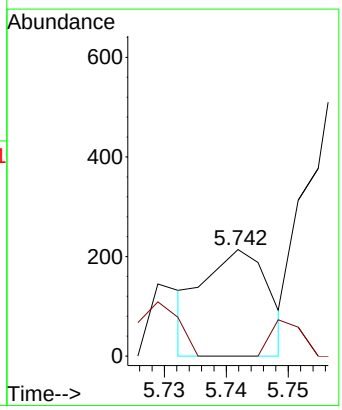


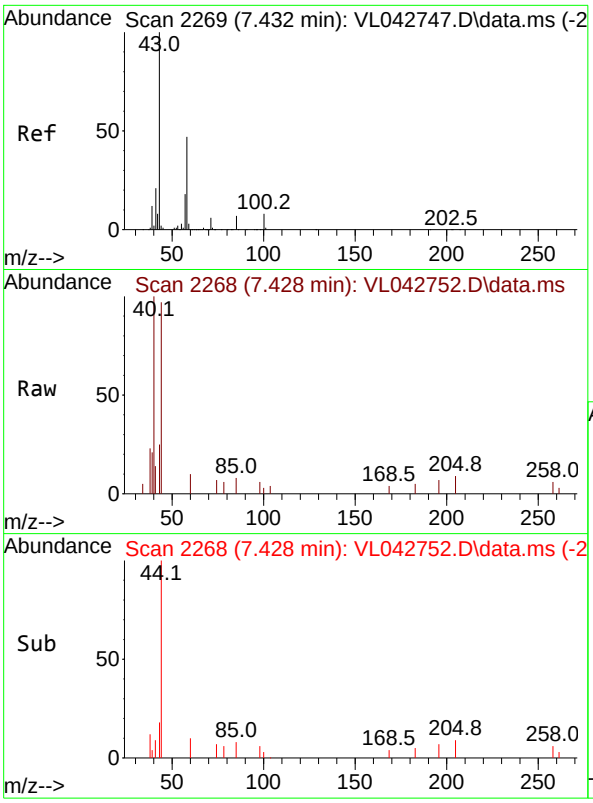


#50
4-Methyl-2-Pentanone
Concen: 0.004 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 43 Resp: 157

Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.8	41.8#



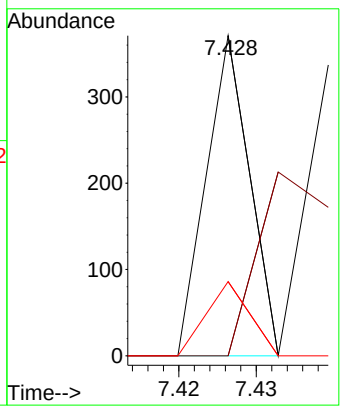


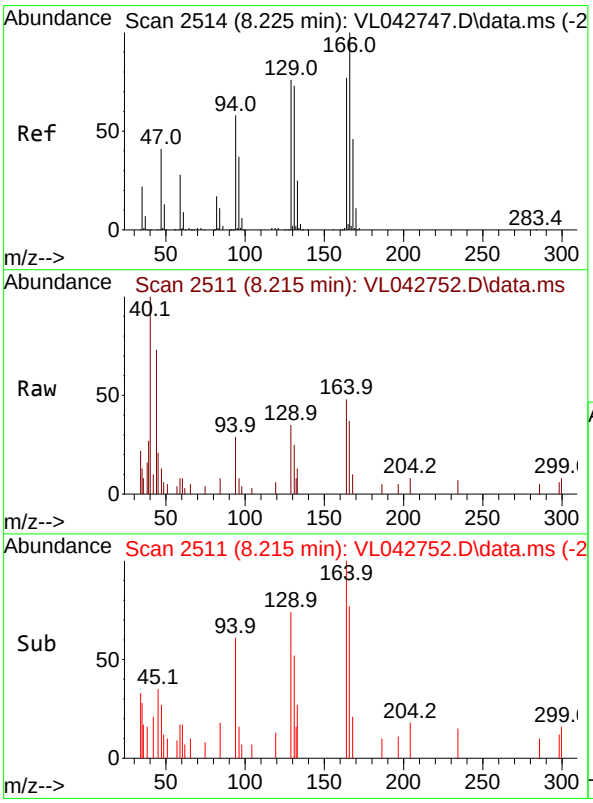
#51
2-Hexanone
Concen: 0.002 ppbv
RT: 7.428 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 72

Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.0	57.0#
98	0.0	0.2	0.4#

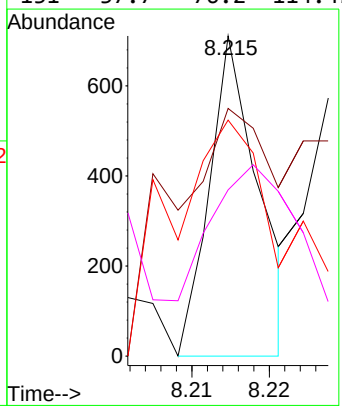


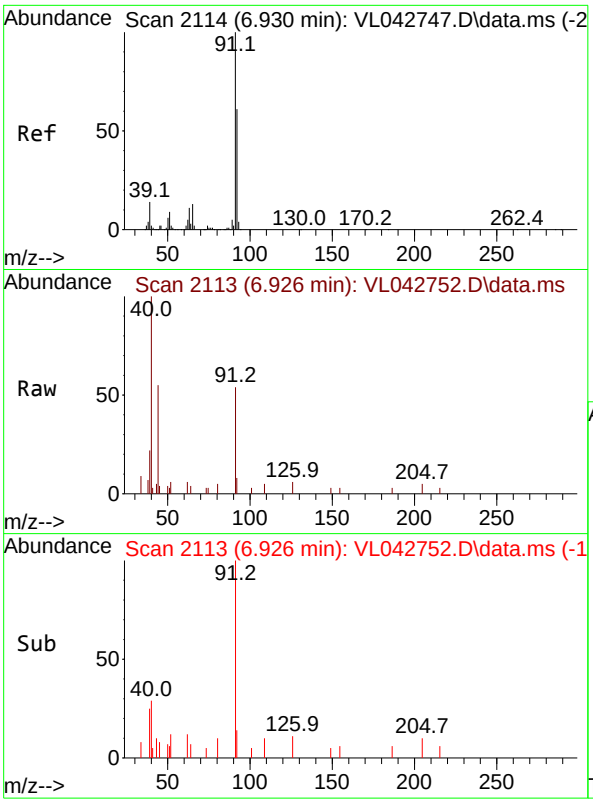


#52
Tetrachloroethene
Concen: 0.019 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:164 Resp: 317

Ion	Ratio	Lower	Upper
164	100		
166	34.6	104.0	156.0#
129	50.2	79.2	118.8#
131	37.7	76.2	114.4#



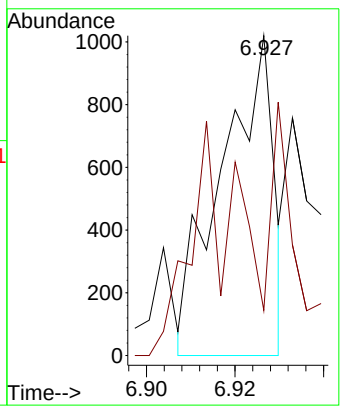


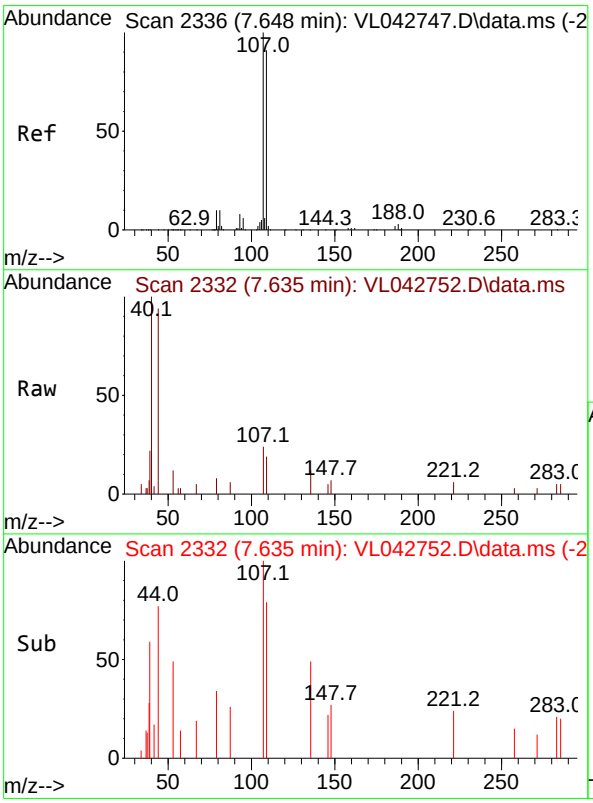
#53
Toluene
Concen: 0.019 ppbv
RT: 6.926 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 832

Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.0	72.0#

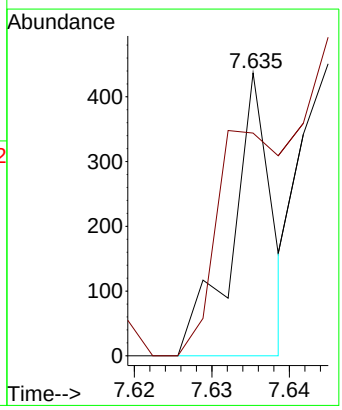


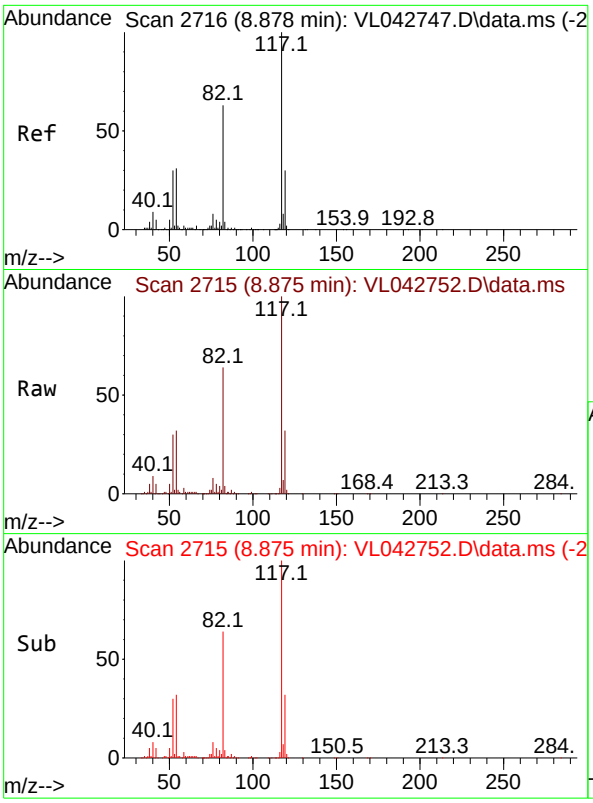


#54
1,2-Dibromoethane
Concen: 0.007 ppbv
RT: 7.635 min Scan# 2332
Delta R.T. -0.013 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:107 Resp: 155

Ion	Ratio	Lower	Upper
107	100		
109	78.7	72.7	109.1



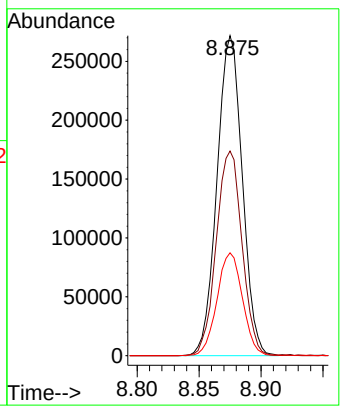


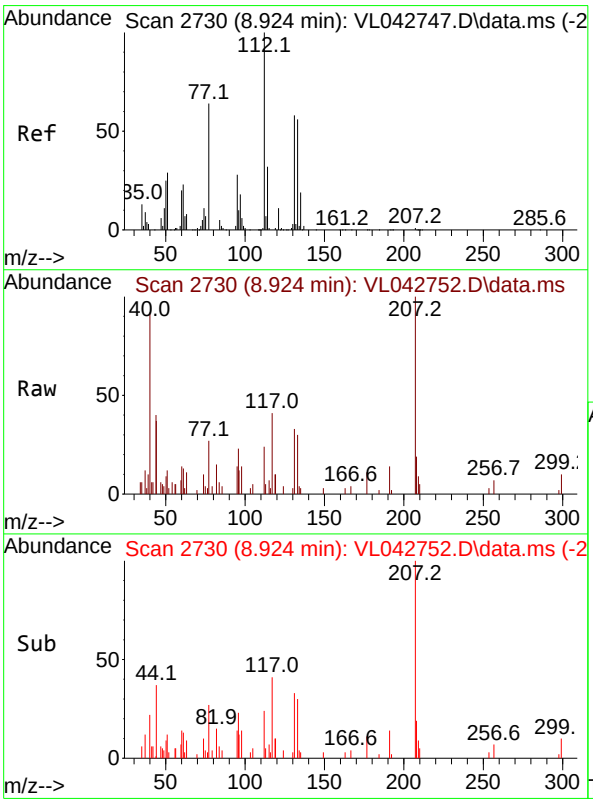
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:117 Resp: 387541

Ion	Ratio	Lower	Upper
117	100		
82	65.0	53.3	79.9
119	32.6	25.8	38.6

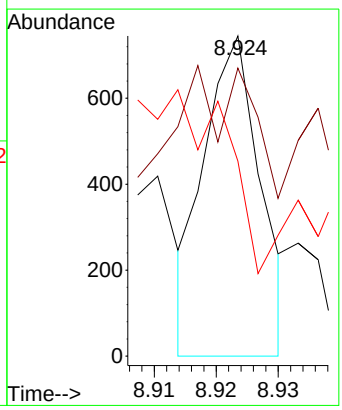


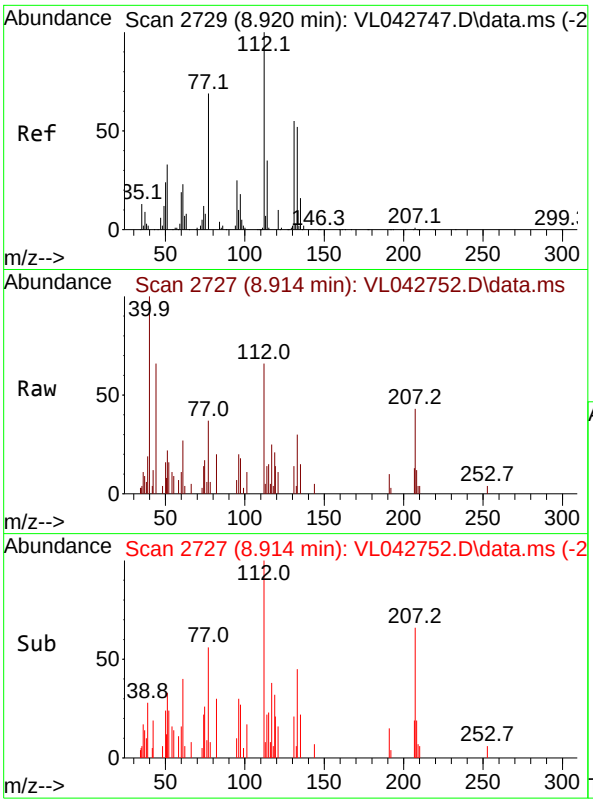


#56
1,1,1,2-Tetrachloroethane
Concen: 0.023 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:131 Resp: 471

Ion	Ratio	Lower	Upper
131	100		
133	307.0	76.8	115.2#
119	0.0	49.7	74.5#



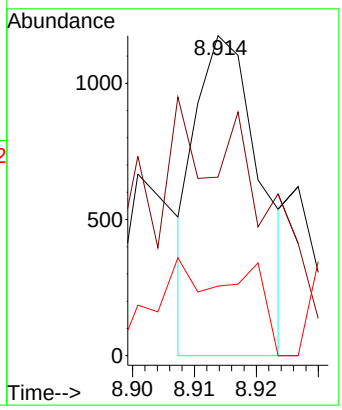


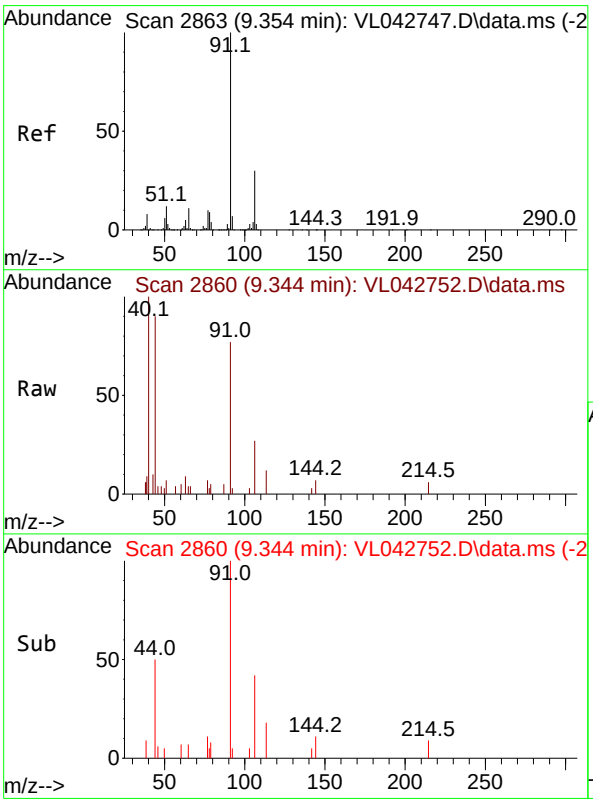
#57
Chlorobenzene
Concen: 0.023 ppbv
RT: 8.914 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:112 Resp: 852

Ion	Ratio	Lower	Upper
112	100		
77	9.3	56.4	84.6#
114	38.4	31.2	38.2#

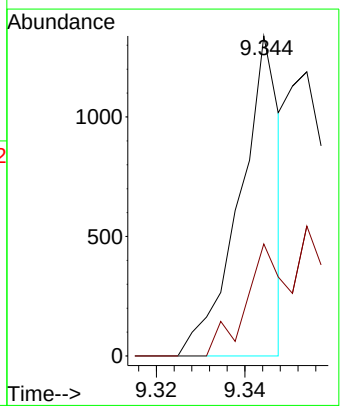


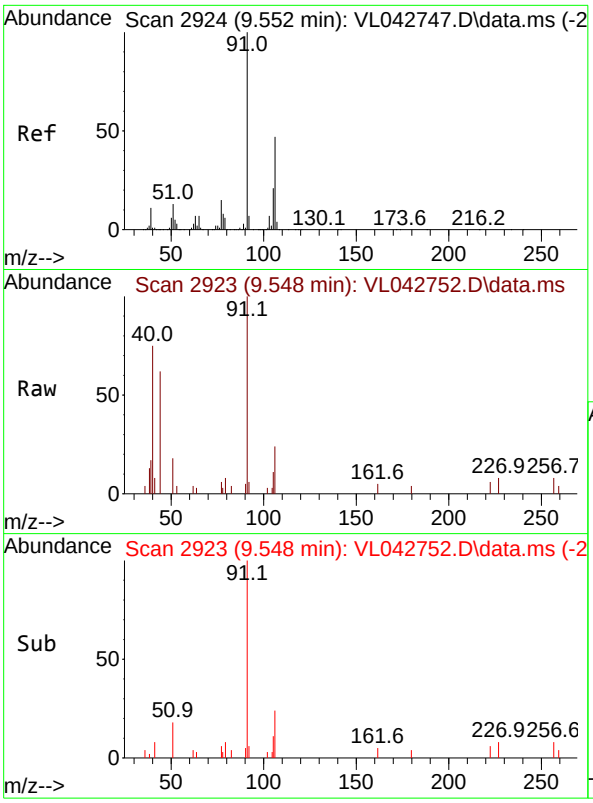


#58
Ethyl Benzene
Concen: 0.014 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 91 Resp: 837

Ion	Ratio	Lower	Upper
91	100		
106	35.0	23.8	35.6



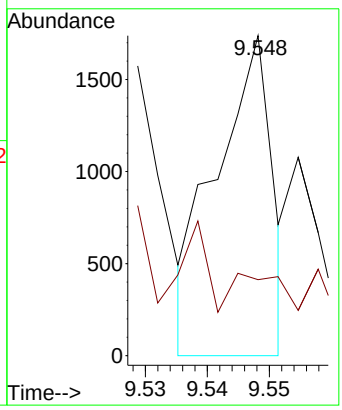


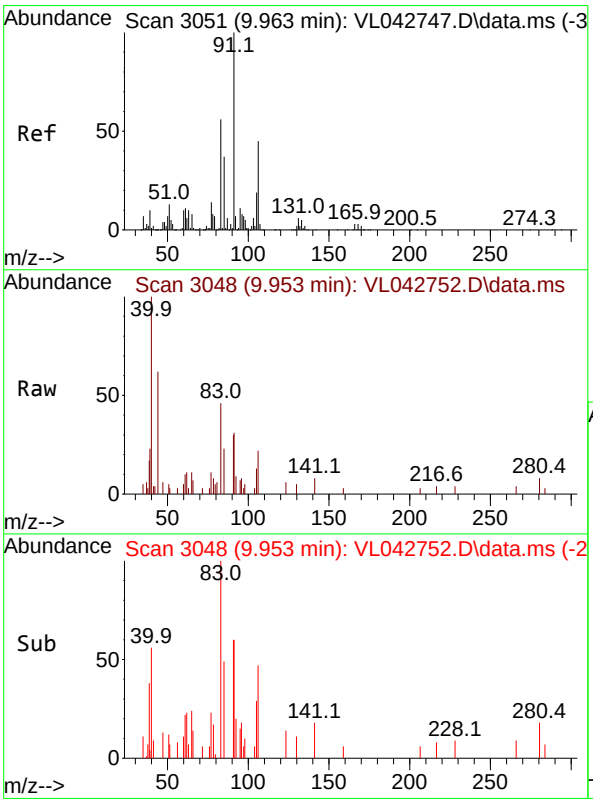
#59
m/p-Xylene
Concen: 0.022 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 1097

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

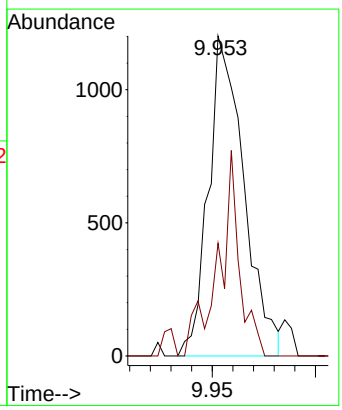


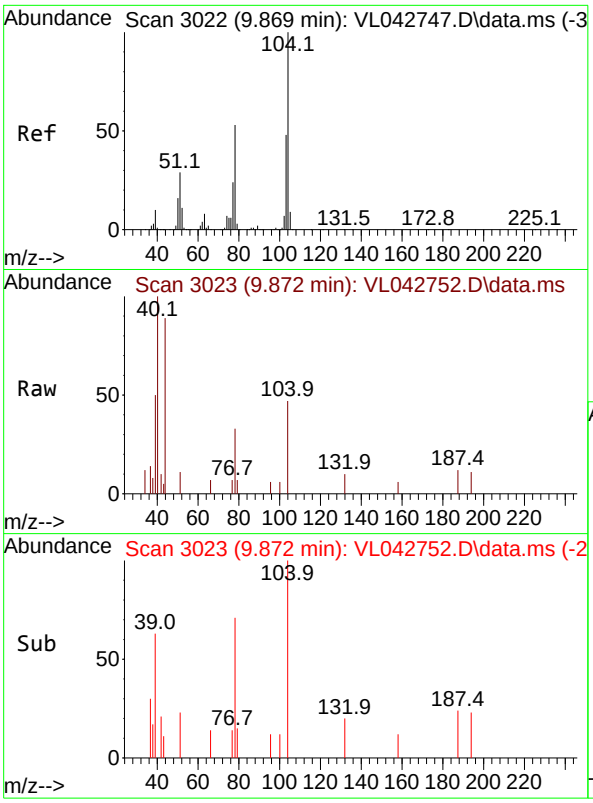


#60
o-Xylene
Concen: 0.029 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 91 Resp: 1440

Ion	Ratio	Lower	Upper
91	100		
106	41.0	22.0	66.0



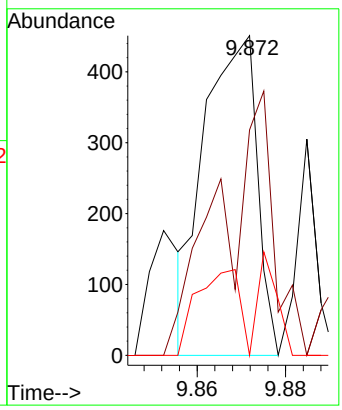


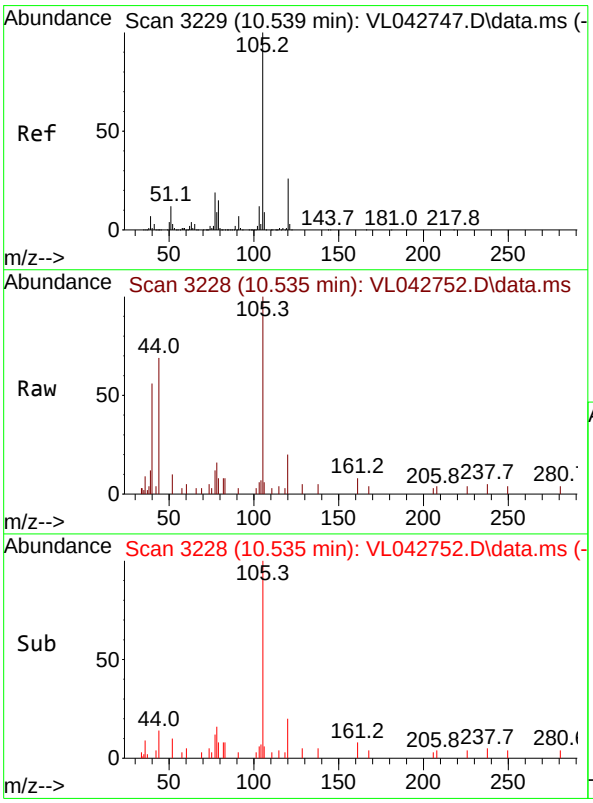
#61
Styrene
Concen: 0.018 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:104 Resp: 373

Ion	Ratio	Lower	Upper
104	100		
78	95.4	41.5	62.3#
103	33.5	37.5	56.3#

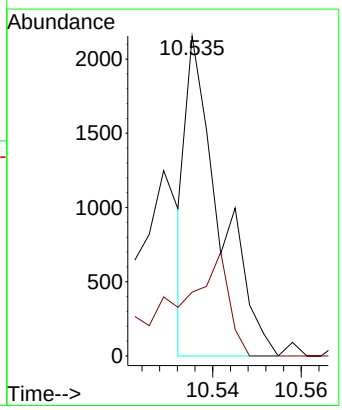


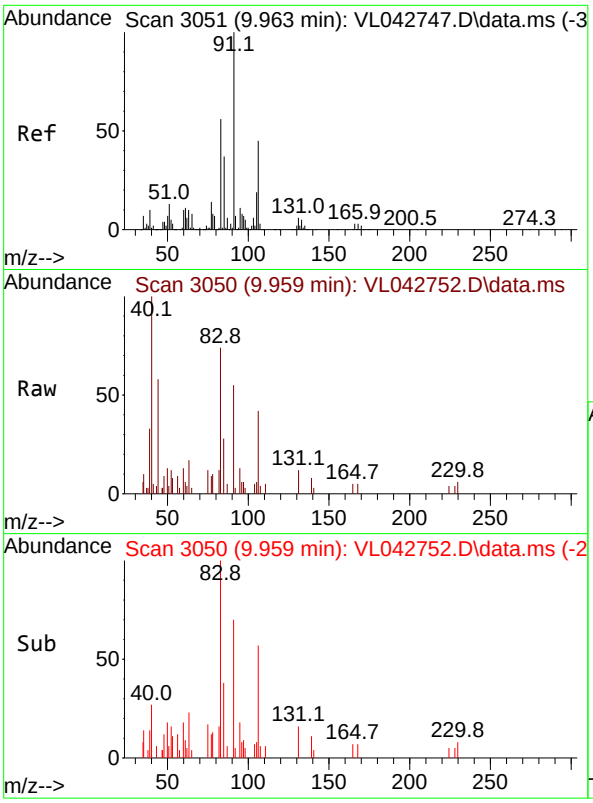


#62
Isopropylbenzene
Concen: 0.016 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:105 Resp: 1137

Ion	Ratio	Lower	Upper
105	100		
120	52.0	20.5	30.7#



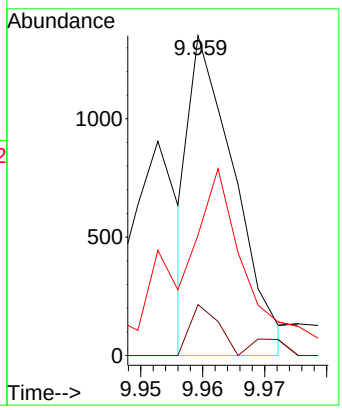


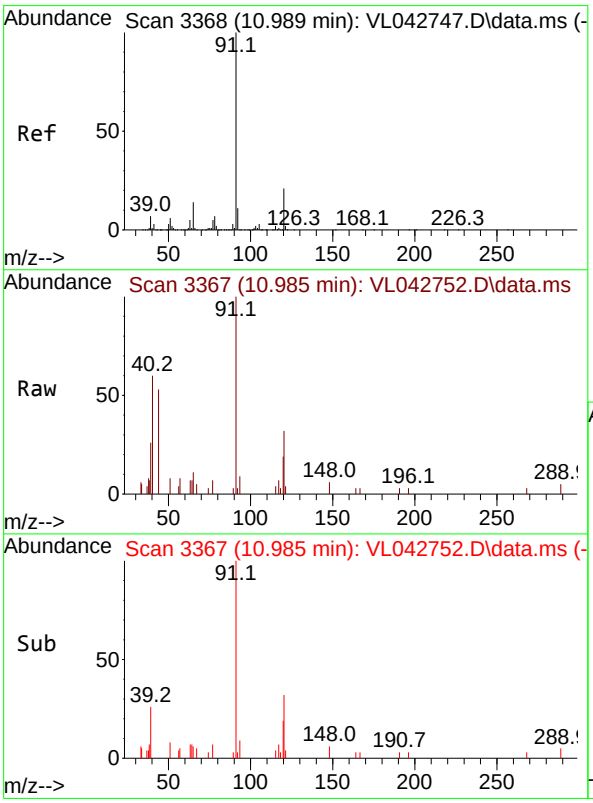
#63
1,1,2,2-Tetrachloroethane
Concen: 0.022 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 83 Resp: 685

Ion	Ratio	Lower	Upper
83	100		
131	14.2	5.0	15.0
85	102.5	32.6	97.7#

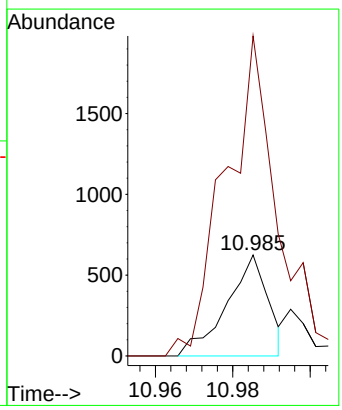


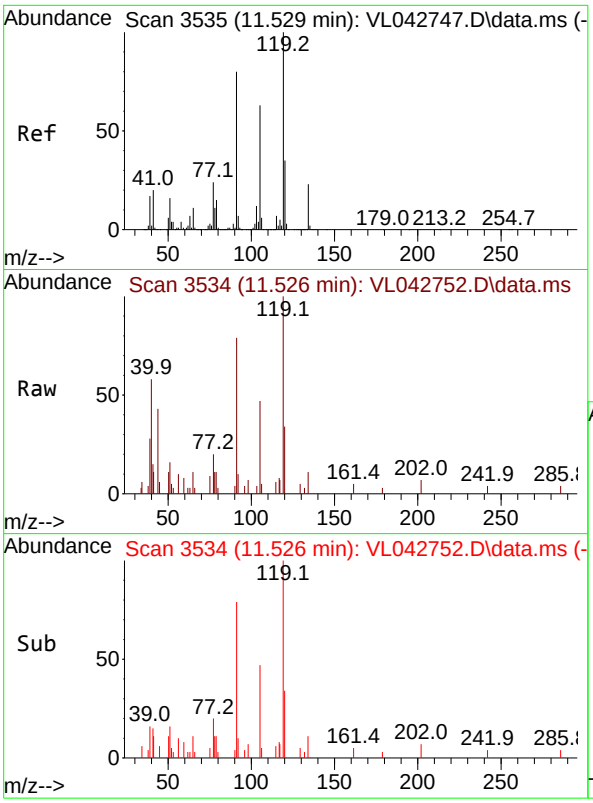


#64
n-propylbenzene
Concen: 0.025 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:120 Resp: 465

Ion	Ratio	Lower	Upper
120	100		
91	408.8	372.7	559.1



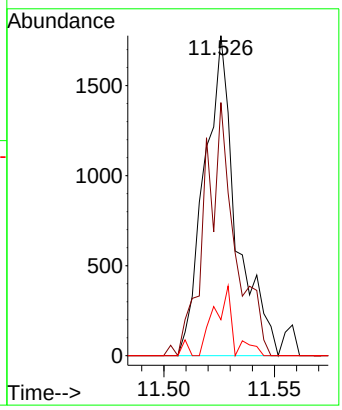


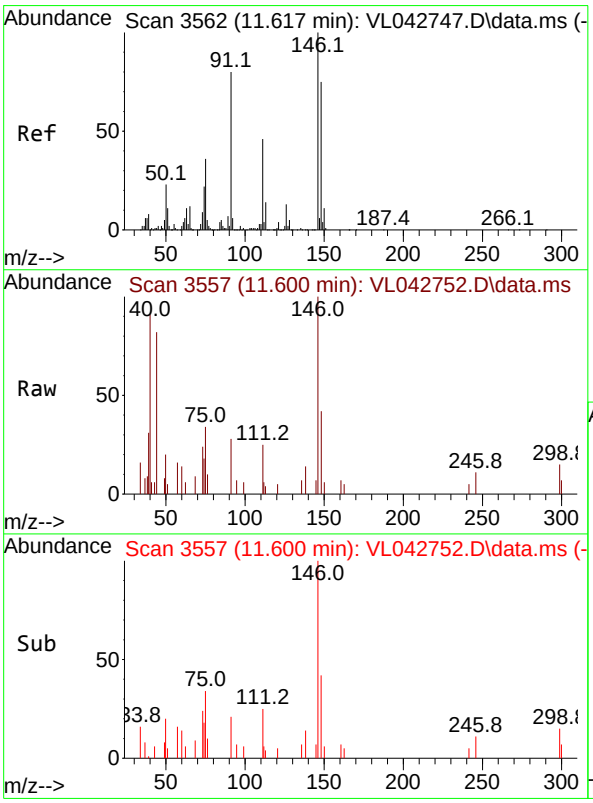
#65
tert-Butylbenzene
Concen: 0.028 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:119 Resp: 1786

Ion	Ratio	Lower	Upper
119	100		
91	74.6	64.0	96.0
134	14.2	17.3	25.9#

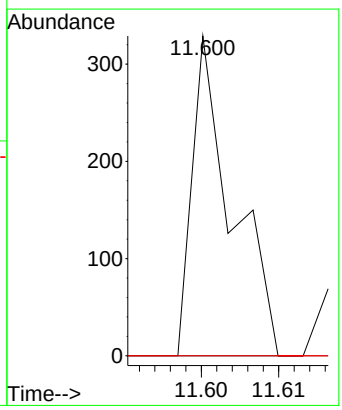


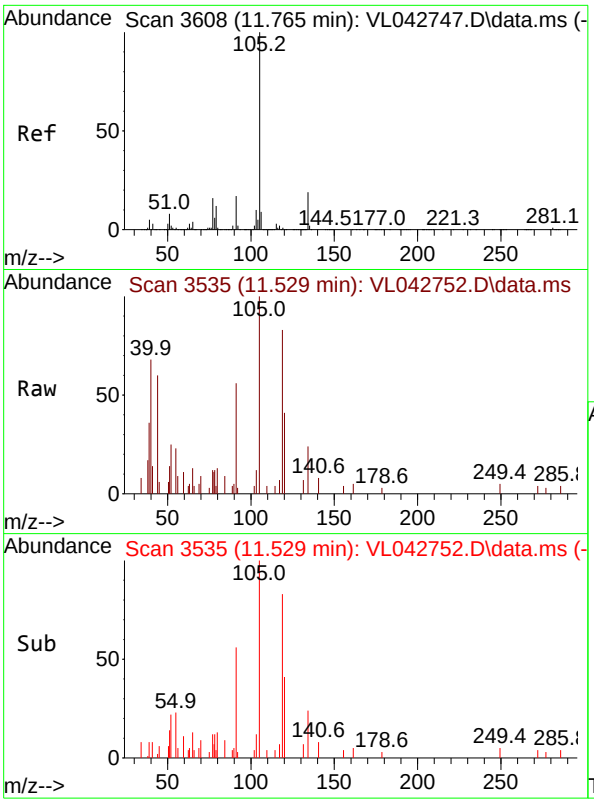


#66
Benzyl Chloride
Concen: 0.022 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.016 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 91 Resp: 118

Ion	Ratio	Lower	Upper
91	100		
126	38.1	14.4	21.6#
128	0.0	5.2	7.8#



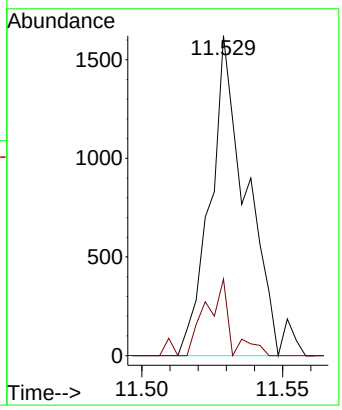


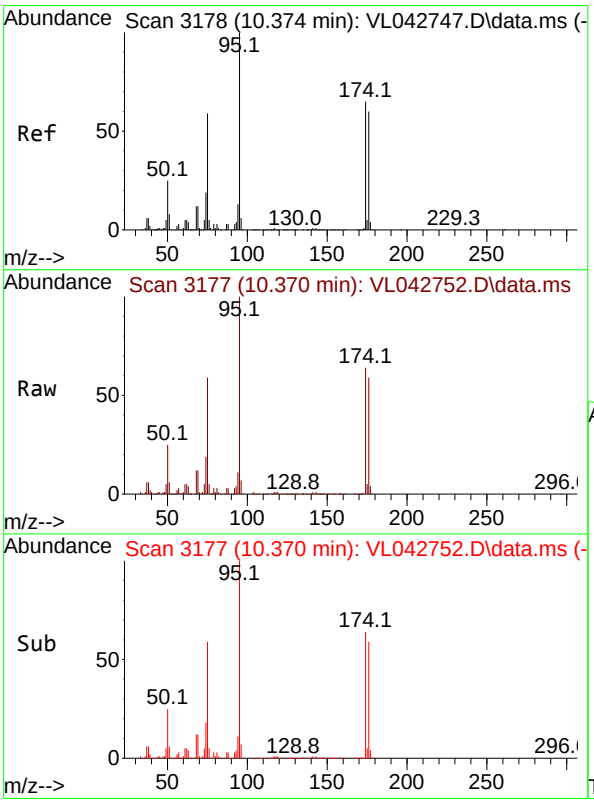
#67
sec-Butylbenzene
Concen: 0.016 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.236 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 1421

Ion	Ratio	Lower	Upper
105	100		
134	17.8	15.5	23.3

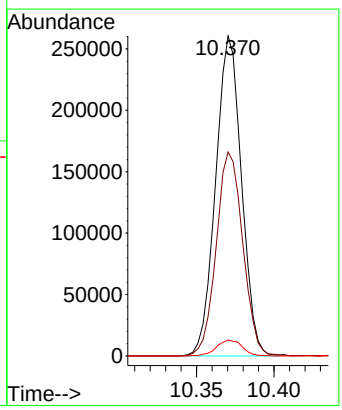


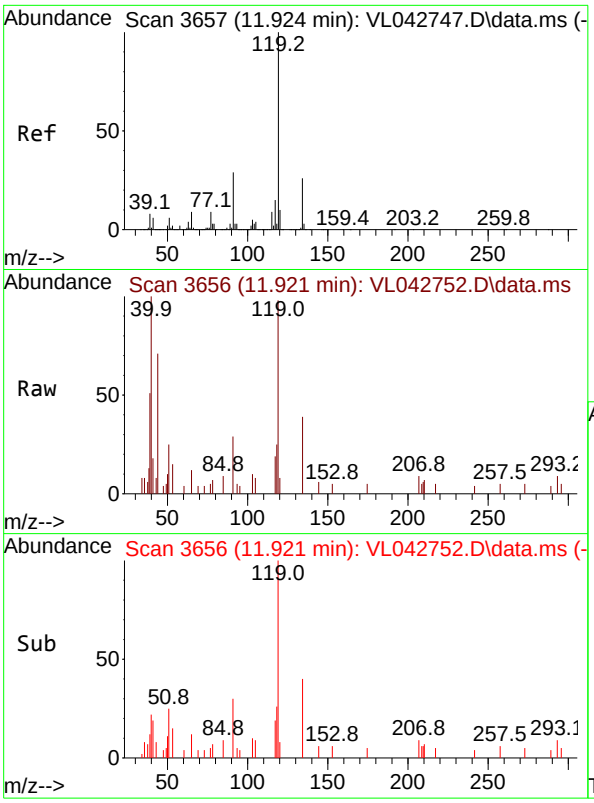


#68
1-Bromo-4-Fluorobenzene
Concen: 9.845 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 95 Resp: 302164

Ion	Ratio	Lower	Upper
95	100		
174	65.6	53.8	80.6
175	5.0	4.0	6.0



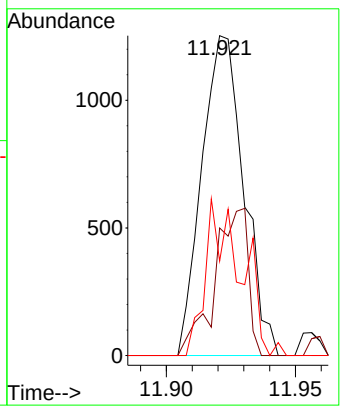


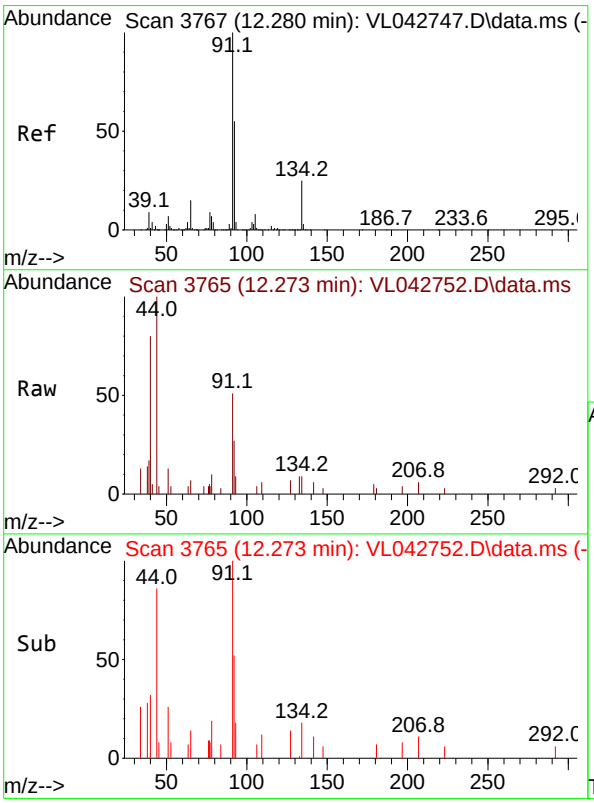
#69
p-Isopropyltoluene
Concen: 0.019 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:119 Resp: 1420

Ion	Ratio	Lower	Upper
119	100		
134	36.6	20.6	31.0#
91	41.5	23.2	34.8#

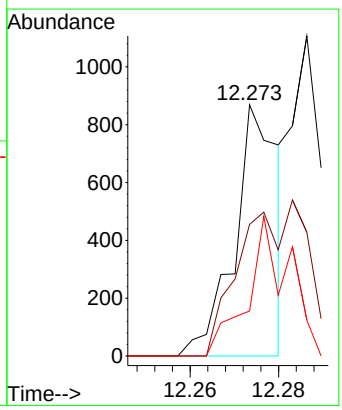


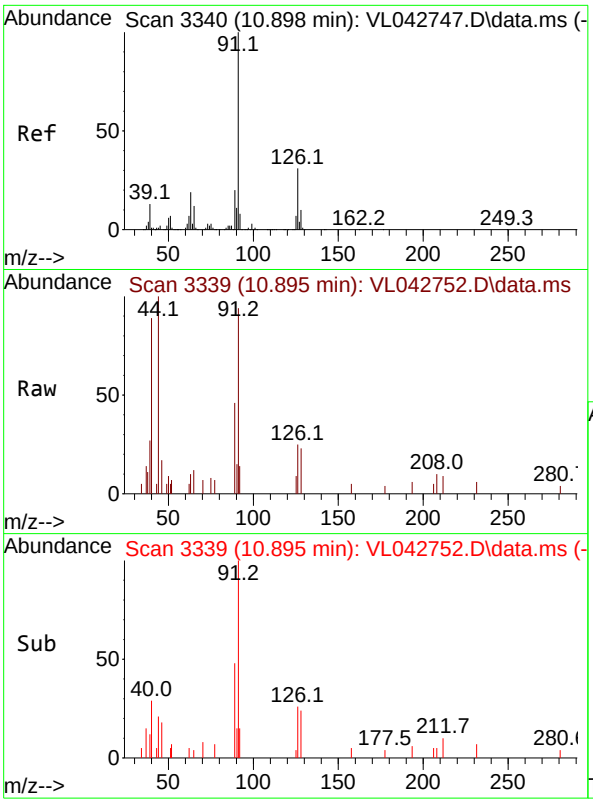


#70
n-Butylbenzene
Concen: 0.008 ppbv
RT: 12.273 min Scan# 3765
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 91 Resp: 591

Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.4	65.2#
134	62.9	19.6	29.4#



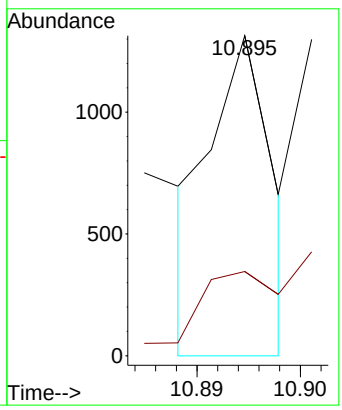


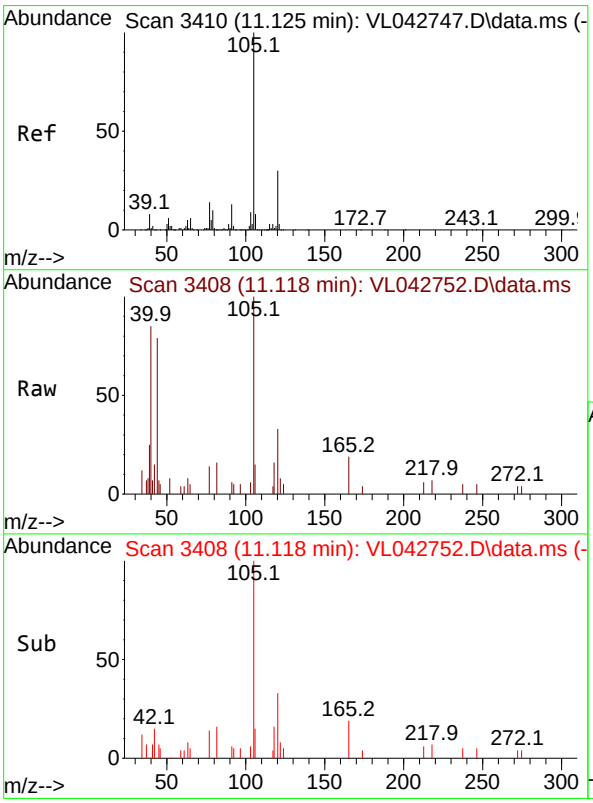
#71
2-Chlorotoluene
Concen: 0.010 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 547

Ion	Ratio	Lower	Upper
91	100		
126	0.0	12.0	48.2#

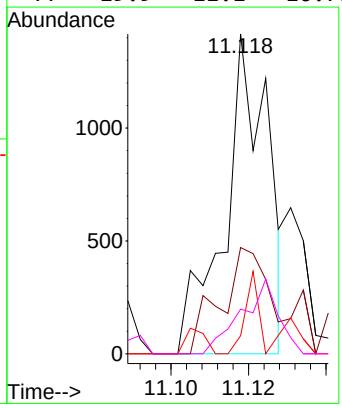


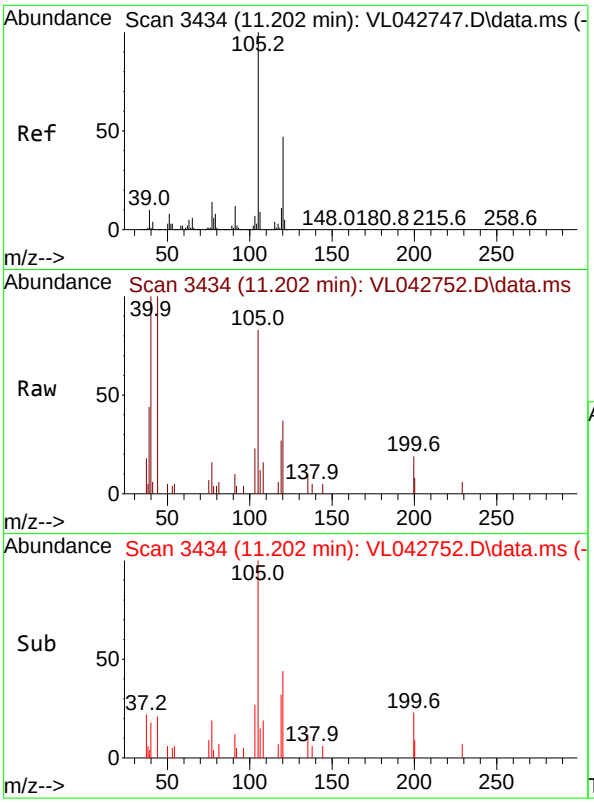


#72
4-Ethyltoluene
Concen: 0.019 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:105 Resp: 1098

Ion	Ratio	Lower	Upper
105	100		
120	48.5	24.4	36.6#
91	11.5	10.6	15.8
77	19.9	11.1	16.7#



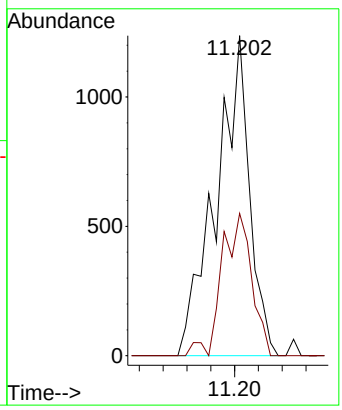


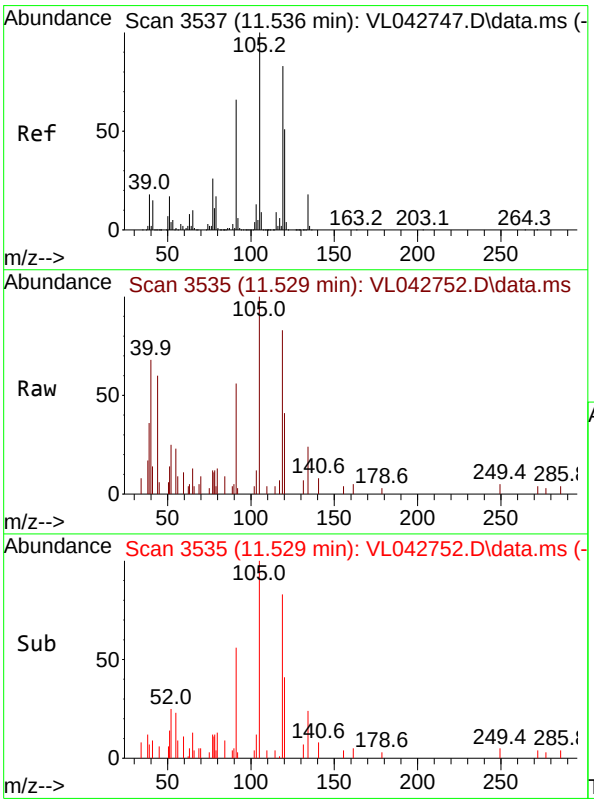
#73
1,3,5-Trimethylbenzene
Concen: 0.025 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 1204

Ion	Ratio	Lower	Upper
105	100		
120	44.5	37.8	56.8

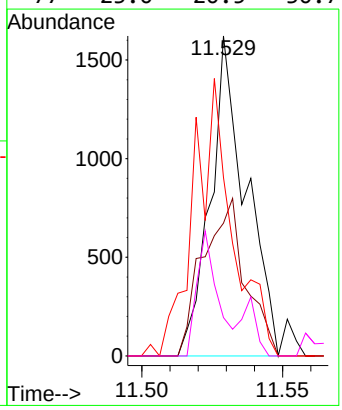


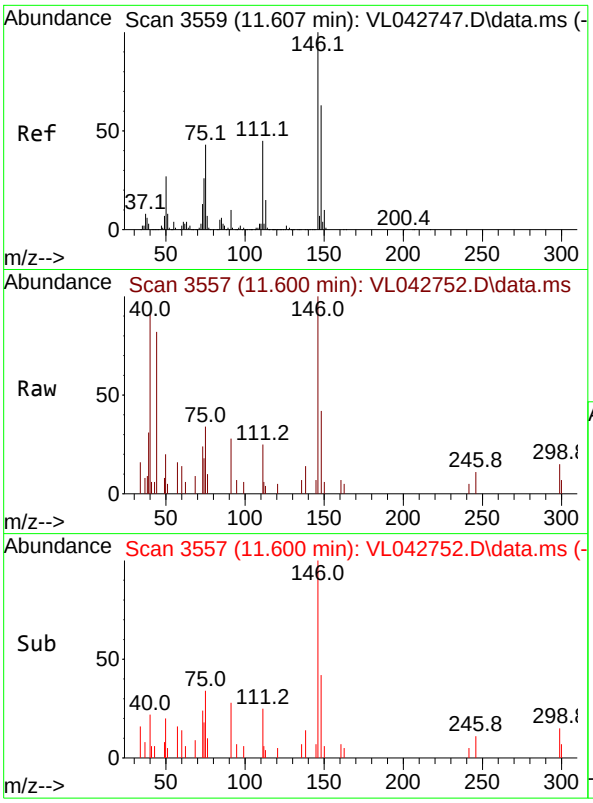


#74
1,2,4-Trimethylbenzene
Concen: 0.027 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:105 Resp: 1421

Ion	Ratio	Lower	Upper
105	100		
120	41.5	40.8	61.2
91	55.8	53.0	79.4
77	23.0	20.5	30.7



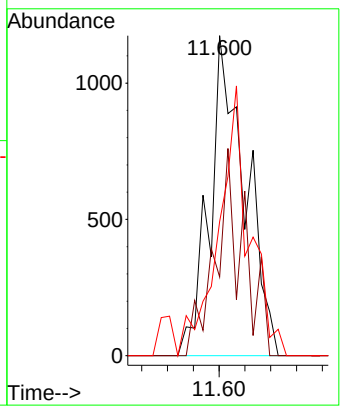


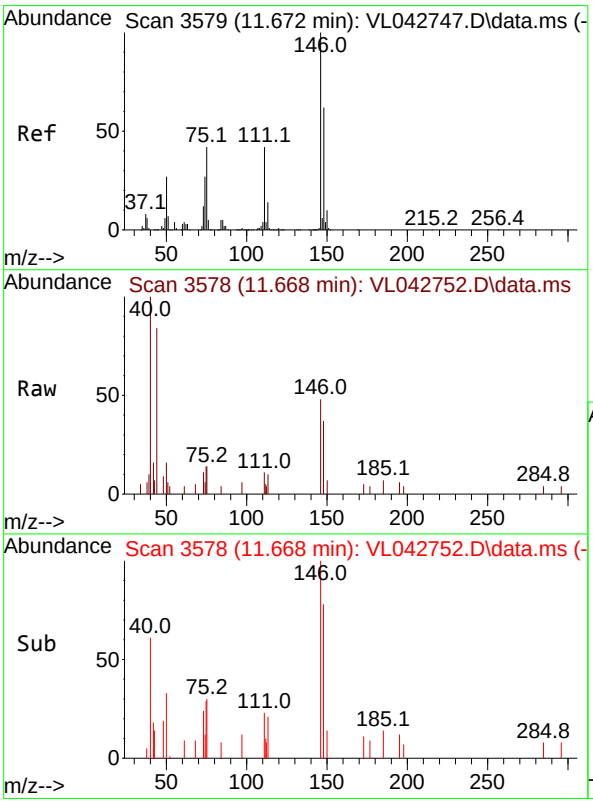
#75
1,3-Dichlorobenzene
Concen: 0.031 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:146 Resp: 1122

Ion	Ratio	Lower	Upper
146	100		
111	51.6	22.7	68.0
148	77.2	31.9	95.5

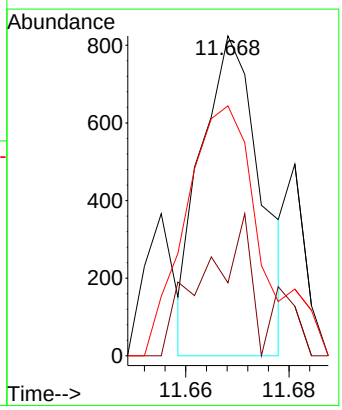


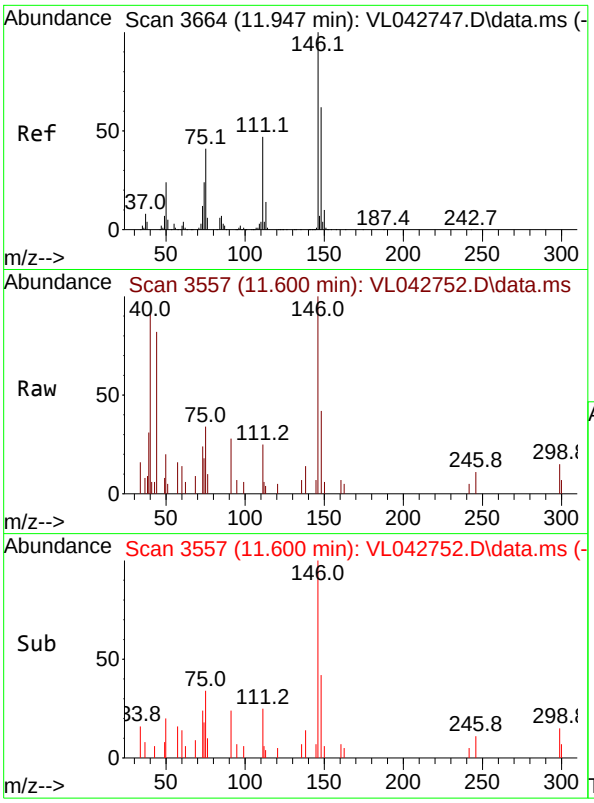


#76
1,4-Dichlorobenzene
Concen: 0.018 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:146 Resp: 658

Ion	Ratio	Lower	Upper
146	100		
111	45.9	21.4	64.2
148	99.2	32.1	96.3#



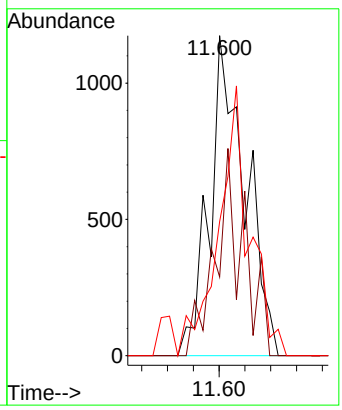


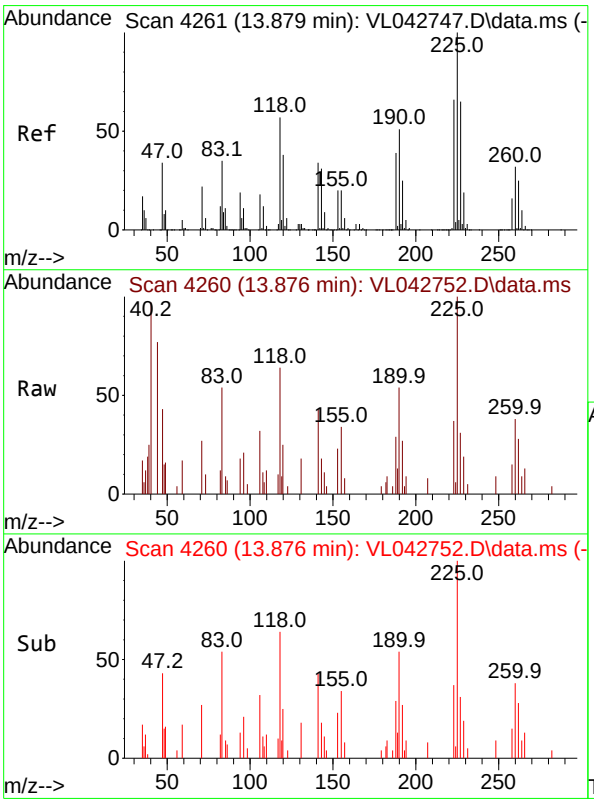
#77
1,2-Dichlorobenzene
Concen: 0.031 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.347 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:146 Resp: 1122

Ion	Ratio	Lower	Upper
146	100		
111	51.6	23.7	71.1
148	77.2	32.6	97.7

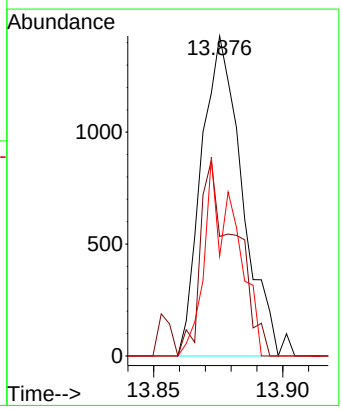


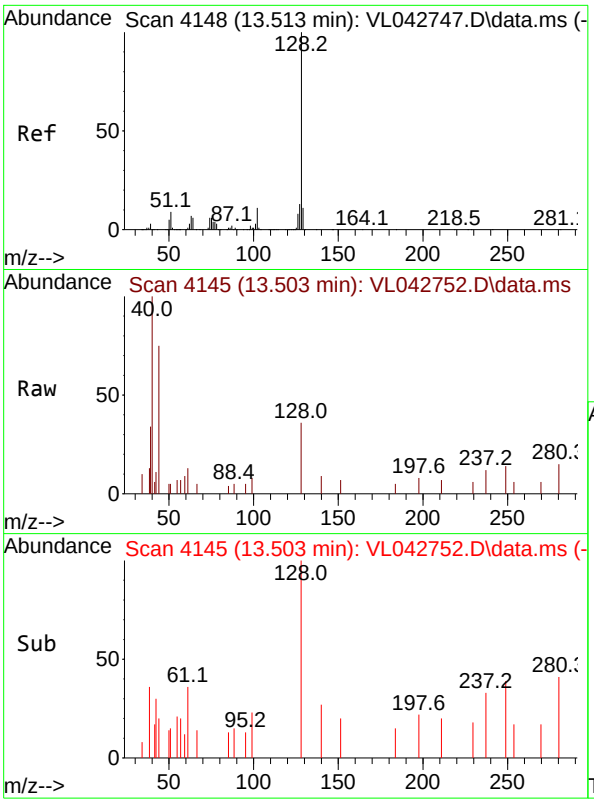


#78
Hexachloro-1,3-Butadiene
Concen: 0.048 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:225 Resp: 1559

Ion	Ratio	Lower	Upper
225	100		
223	56.2	50.7	76.1
227	47.8	50.5	75.7#



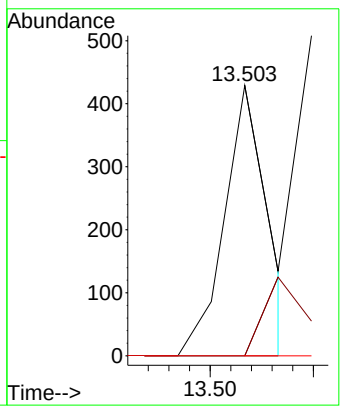


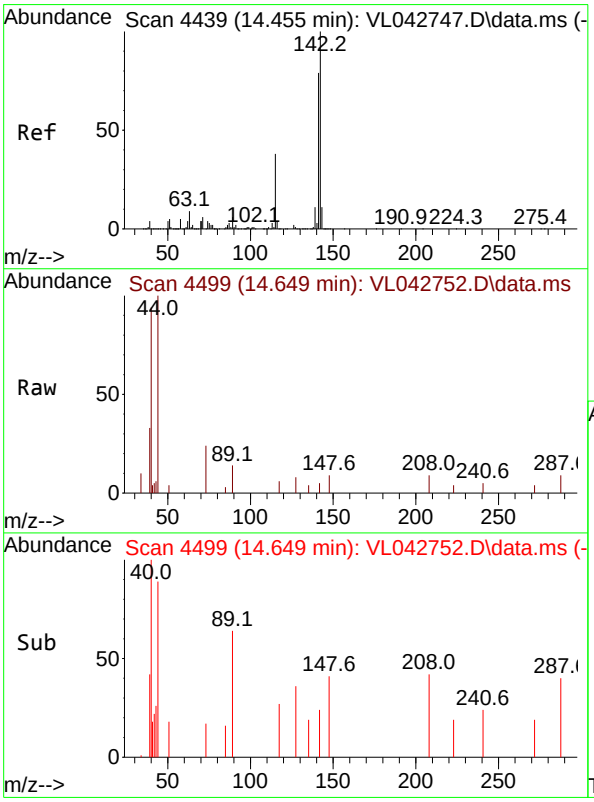
#79
Naphthalene
Concen: 0.436 ppbv
RT: 13.503 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:128 Resp: 126

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	13.0#

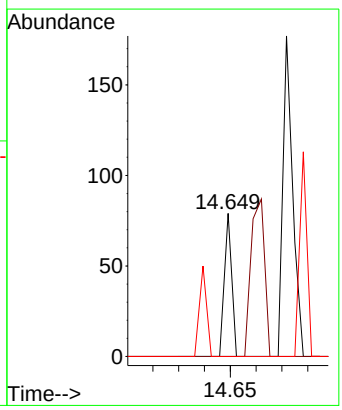


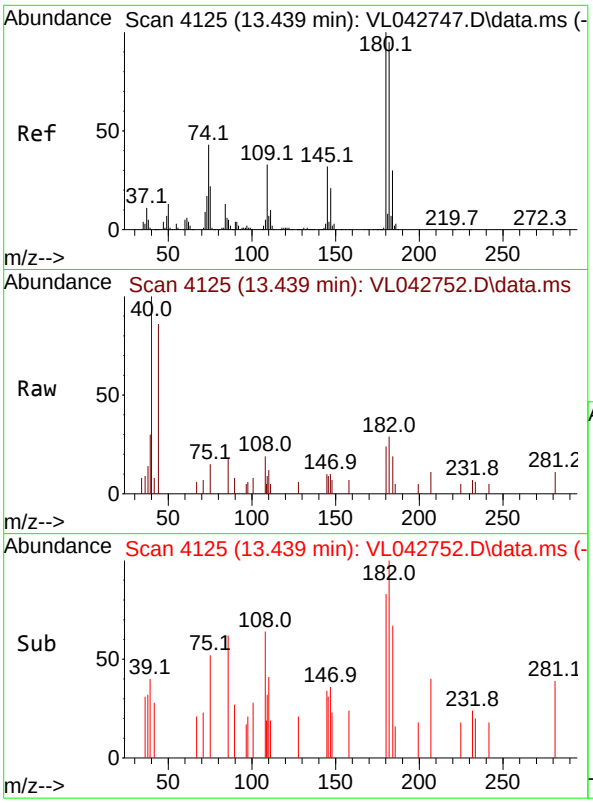


#80
Naphthalene,2-methyl-
Concen: 1.127 ppbv
RT: 14.649 min Scan# 4499
Delta R.T. 0.194 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:142 Resp: 15

Ion	Ratio	Lower	Upper
142	100		
141	0.0	65.8	98.8#
115	66.7	31.2	46.8#



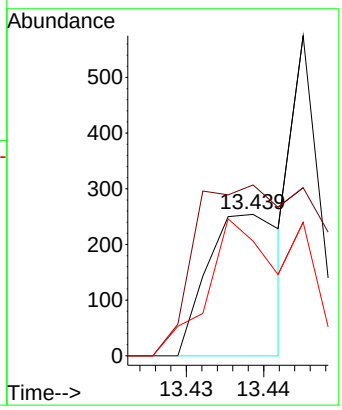


#81
1,2,4-Trichlorobenzene
Concen: 0.438 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:180 Resp: 170

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	116.5	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042753.D
Acq On : 23 Jul 2025 12:26
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Jul 24 05:00:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	150331	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	427438	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	385223	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	315293	10.335	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	277045	13.938	ppbv	98
3) Chlorodifluoromethane	1.473	51	353451	13.651	ppbv	98
4) Chloromethane	1.531	50	111684	13.889	ppbv	96
5) Vinyl Chloride	1.577	62	98596	12.410	ppbv	96
6) Bromomethane	1.667	94	44144	14.372	ppbv	92
7) Chloroethane	1.703	64	40909	13.327	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	229298	14.028	ppbv	99
9) Propene	1.483	41	129069	13.716	ppbv	99
10) Heptane	4.972	43	368612	14.563	ppbv	99
11) Trichlorofluoromethane	1.874	101	289764	14.143	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	223552	14.358	ppbv	99
13) Ethanol	1.719	45	11145	15.142	ppbv	86
14) Bromoethene	1.780	108	77435	14.047	ppbv	98
15) Acetone	1.832	43	237665	11.449	ppbv	98
16) 1,3-Butadiene	1.606	39	118252	13.355	ppbv	99
17) tert-Butyl alcohol	2.036	59	260587	13.919	ppbv	98
18) 1,1-Dichloroethene	2.030	96	94140	13.382	ppbv	93
19) Isopropyl Alcohol	1.881	45	149463	13.549	ppbv	99
20) Methylene Chloride	2.059	84	82755	12.651	ppbv	97
21) Allyl Chloride	2.094	41	185201	14.476	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	107003	14.160	ppbv	92
23) Vinyl Acetate	2.457	43	413378	16.426	ppbv	99
24) 1,1-Dichloroethane	2.405	63	221175	14.239	ppbv	100
25) Ethyl Acetate	2.829	43	647150	14.084	ppbv	99
26) Hexane	2.819	57	279549	13.869	ppbv	99
27) Carbon Disulfide	2.146	76	260884	15.119	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	156895	16.477	ppbv	97
29) Chloroform	2.842	83	438155	14.067	ppbv	100
30) Cyclohexane	3.849	84	244116	14.280	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	293947	14.192	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	447592	13.796	ppbv	100
34) 2-Butanone	2.551	43	432873	14.297	ppbv	100
35) Carbon Tetrachloride	3.755	117	468957	14.764	ppbv	98
36) Benzene	3.651	78	577153	14.247	ppbv	99
37) 1,2-Dichloroethane	3.211	62	354637	14.533	ppbv	100
38) Trichloroethene	4.541	130	262041	13.416	ppbv	97
39) 1,2-Dichloropropane	4.305	63	211594	14.150	ppbv	99
40) 1,4-Dioxane	4.567	88	98196	13.926	ppbv #	99
41) Tetrahydrofuran	3.046	42	232393	15.278	ppbv	99
42) Bromodichloromethane	4.480	83	486831	15.303	ppbv	99
43) Methyl Methacrylate	4.868	69	231227	16.059	ppbv	98
44) 2,2,4-Trimethylpentane	4.629	57	963867	14.598	ppbv	98
45) t-1,3-Dichloropropene	6.406	75	266194	16.478	ppbv	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042753.D
Acq On : 23 Jul 2025 12:26
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Jul 24 05:00:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	329850	16.115	ppbv		99
47) 1,1,2-Trichloroethane	6.567	97	228492	14.335	ppbv		96
48) Dibromochloromethane	7.380	129	397179	15.695	ppbv		99
49) Bromoform	9.477	173	352050	15.955	ppbv		97
50) 4-Methyl-2-Pentanone	5.732	43	594973	15.427	ppbv		100
51) 2-Hexanone	7.428	43	485325	16.467	ppbv	#	100
52) Tetrachloroethene	8.221	164	217184	12.899	ppbv		95
53) Toluene	6.923	91	670142	15.405	ppbv		99
54) 1,2-Dibromoethane	7.645	107	338867	15.019	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.920	131	293384	14.648	ppbv		99
57) Chlorobenzene	8.917	112	522894	14.025	ppbv		98
58) Ethyl Benzene	9.351	91	940159	15.454	ppbv		99
59) m/p-Xylene	9.545	91	766284	15.756	ppbv	#	34
60) o-Xylene	9.959	91	730161	15.030	ppbv		100
61) Styrene	9.866	104	343429	16.805	ppbv		100
62) Isopropylbenzene	10.536	105	1078393	15.049	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.959	83	419734	13.261	ppbv		98
64) n-propylbenzene	10.985	120	286724	15.348	ppbv		97
65) tert-Butylbenzene	11.529	119	954459	14.995	ppbv		98
66) Benzyl Chloride	11.610	91	94218	18.031	ppbv		98
67) sec-Butylbenzene	11.762	105	1327393	14.662	ppbv		99
69) p-Isopropyltoluene	11.921	119	1149418	15.571	ppbv		99
70) n-Butylbenzene	12.277	91	1152207	16.159	ppbv		100
71) 2-Chlorotoluene	10.898	91	838335	15.257	ppbv		99
72) 4-Ethyltoluene	11.121	105	918453	15.830	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	763212	15.977	ppbv		100
74) 1,2,4-Trimethylbenzene	11.532	105	827222	15.873	ppbv		97
75) 1,3-Dichlorobenzene	11.604	146	539284	14.761	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	542998	15.188	ppbv		100
77) 1,2-Dichlorobenzene	11.943	146	516714	14.390	ppbv		98
78) Hexachloro-1,3-Butadiene	13.876	225	432138	13.296	ppbv		99
79) Naphthalene	13.507	128	876734	15.265	ppbv		99
80) Naphthalene,2-methyl-	14.452	142	456529	15.438	ppbv		98
81) 1,2,4-Trichlorobenzene	13.436	180	490575	15.200	ppbv		99

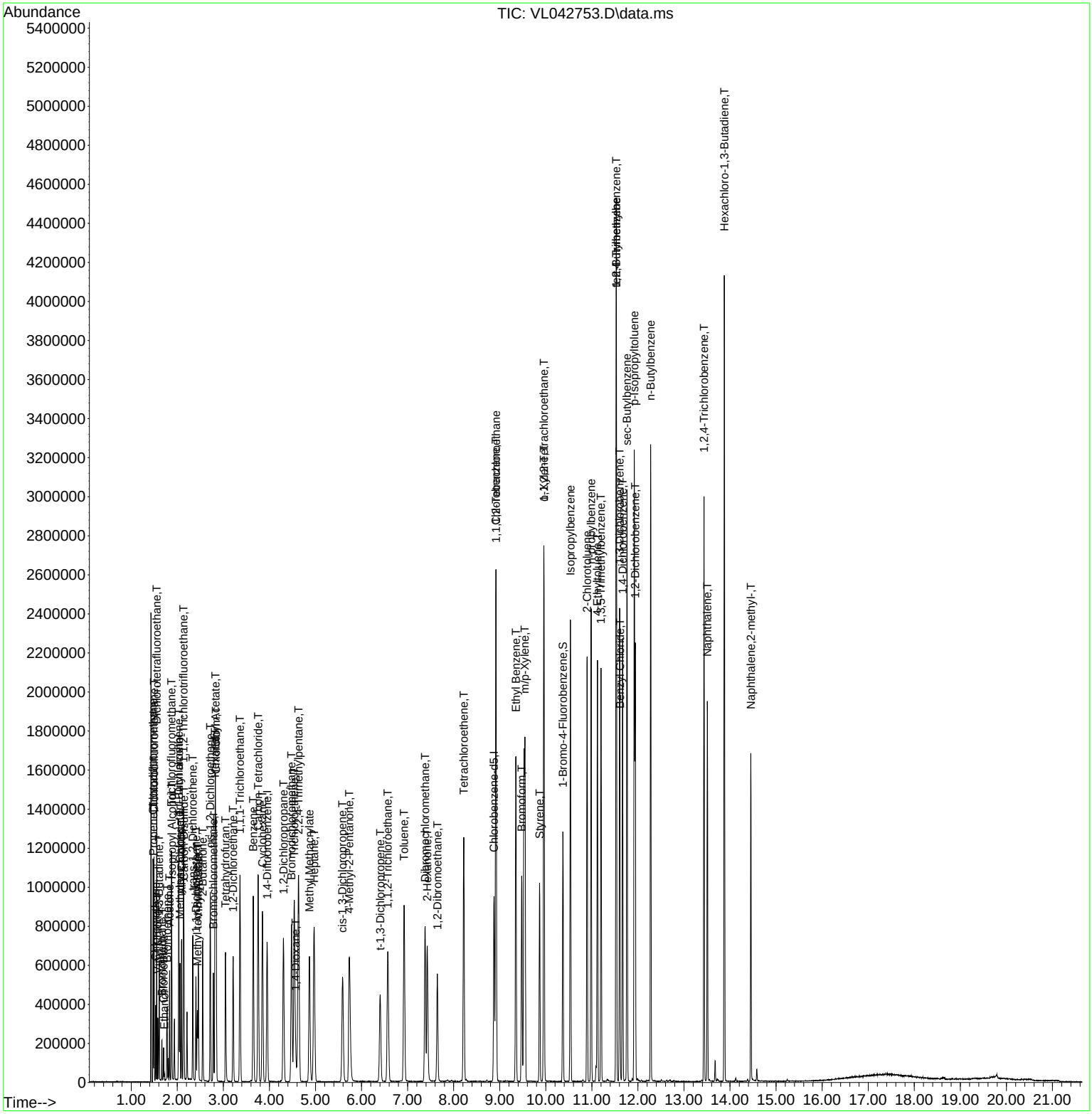
(#) = qualifier out of range (m) = manual integration (+) = signals summed

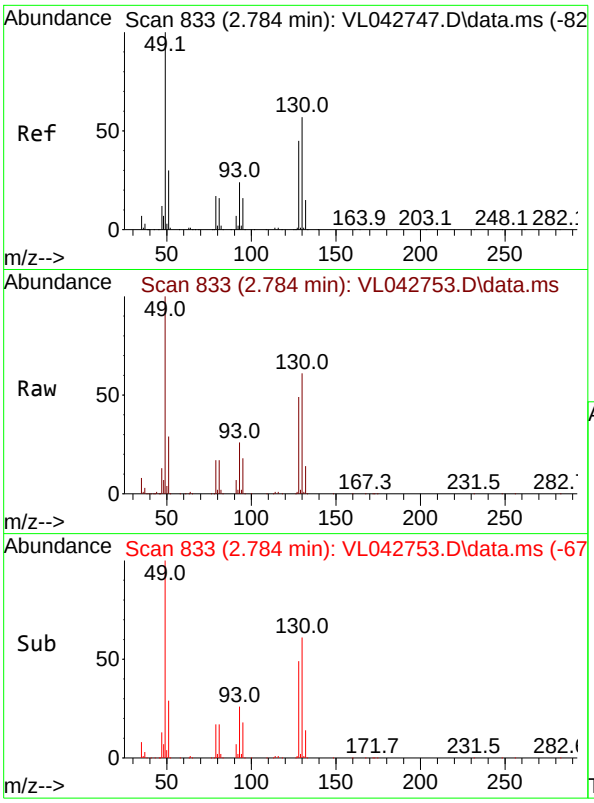
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042753.D
Acq On : 23 Jul 2025 12:26
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Jul 24 05:00:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration



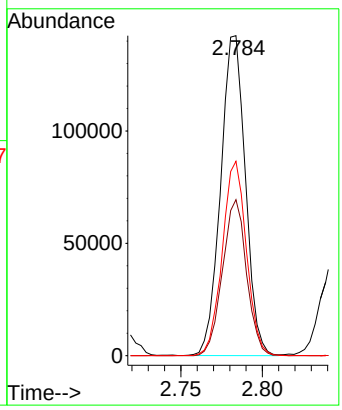


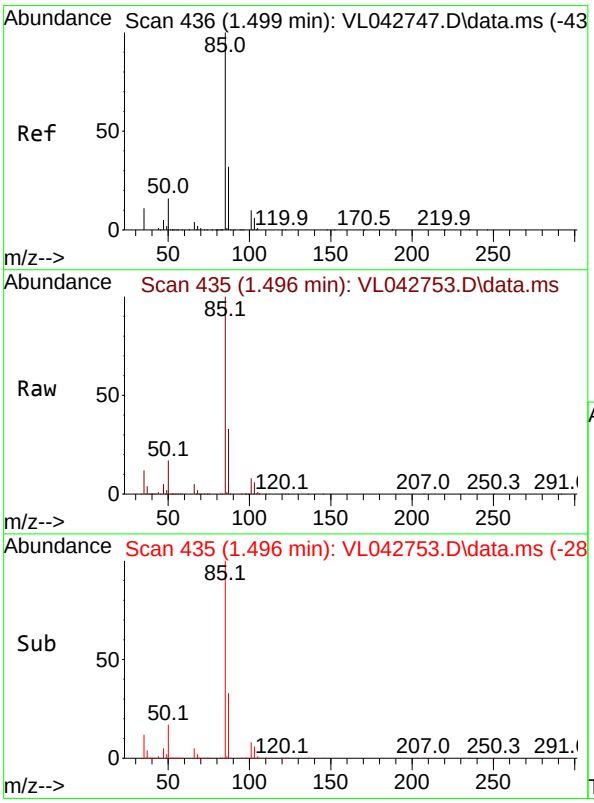
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 49 Resp: 150331

Ion	Ratio	Lower	Upper
49	100		
128	47.4	23.6	71.0
130	59.2	30.3	90.8

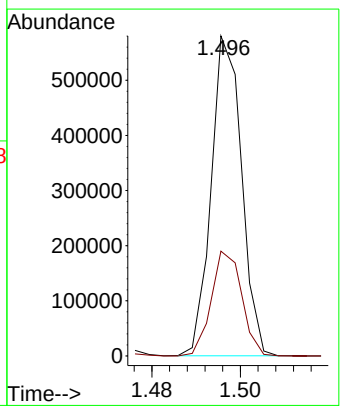


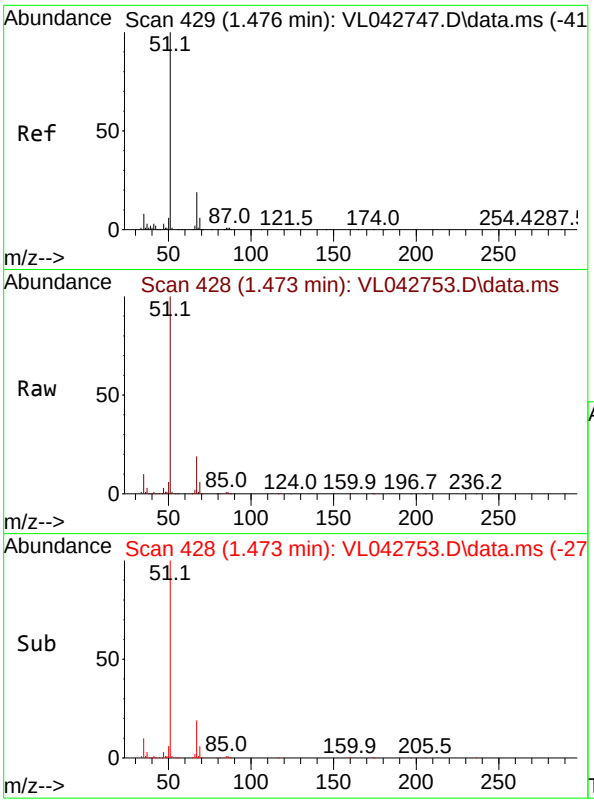


#2
Dichlorodifluoromethane
Concen: 13.938 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 85 Resp: 277045

Ion	Ratio	Lower	Upper
85	100		
87	32.7	25.4	38.2



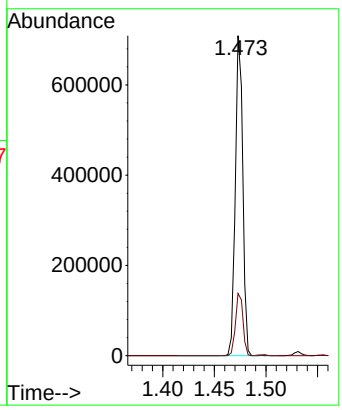


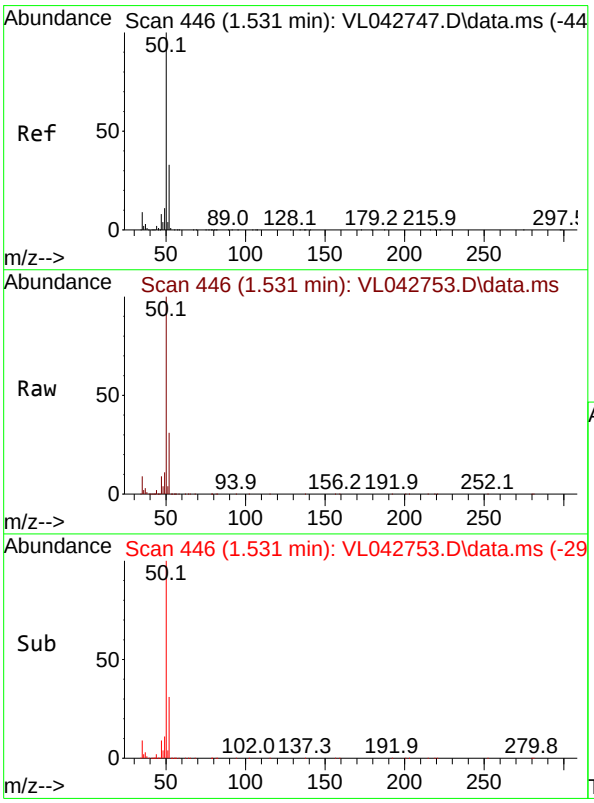
#3
Chlorodifluoromethane
Concen: 13.651 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 353451

Ion	Ratio	Lower	Upper
51	100		
67	19.6	15.0	22.6

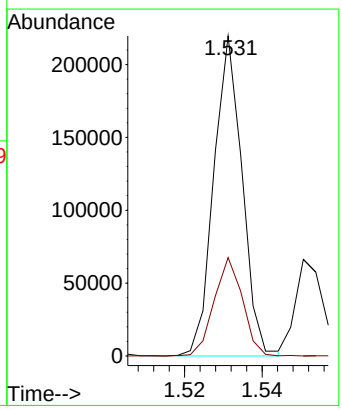


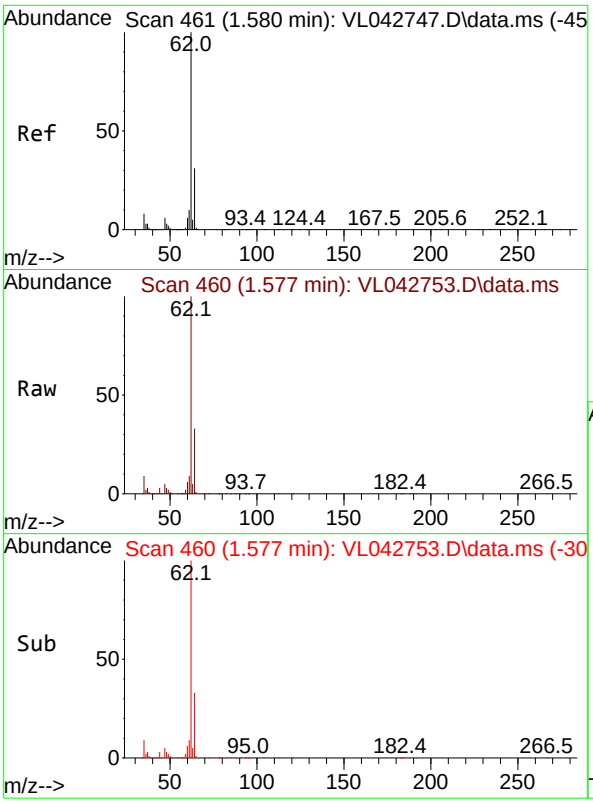


#4
Chloromethane
Concen: 13.889 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 50 Resp: 111684

Ion	Ratio	Lower	Upper
50	100		
52	30.8	26.6	40.0



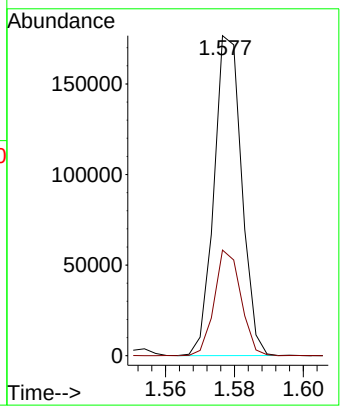


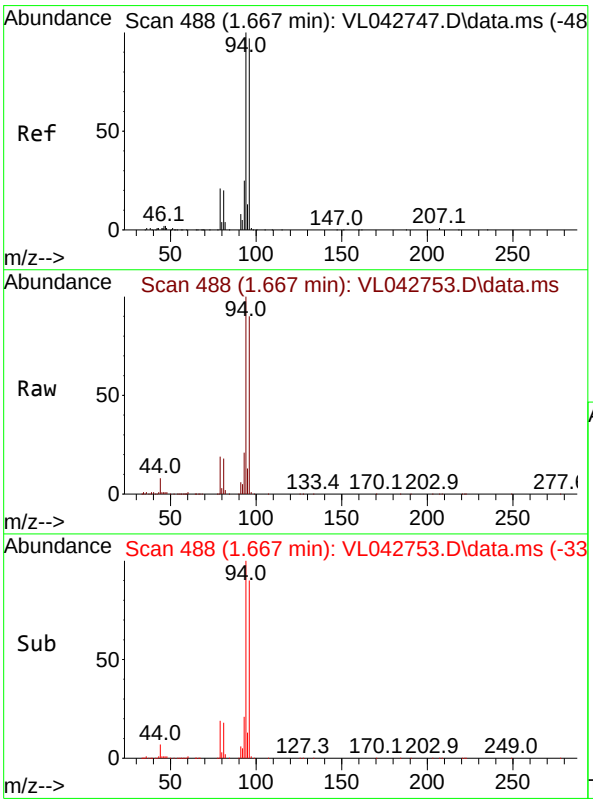
#5
Vinyl Chloride
Concen: 12.410 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 98596

Ion	Ratio	Lower	Upper
62	100		
64	33.0	24.5	36.7

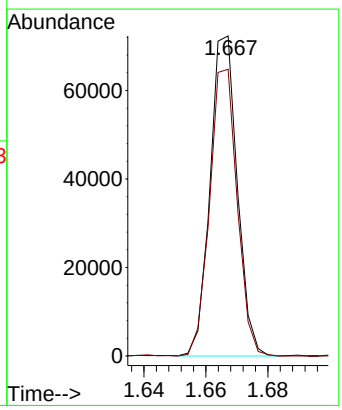


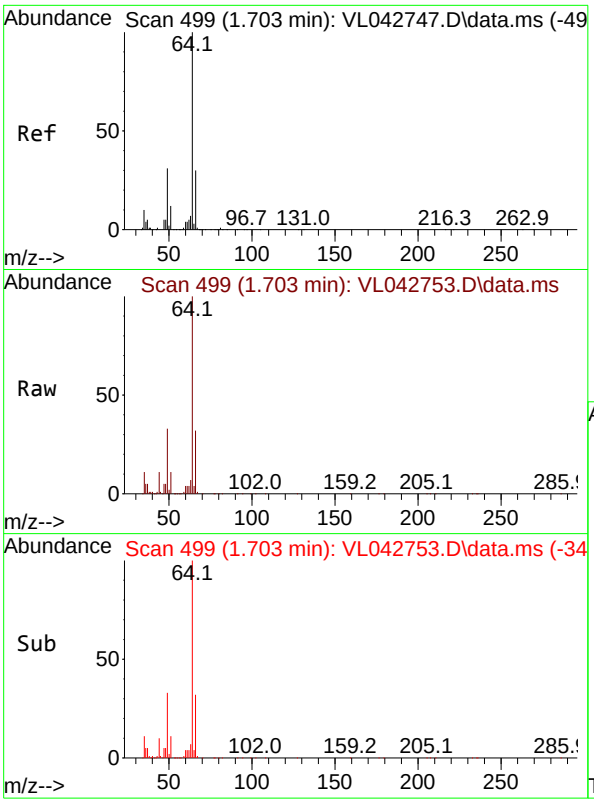


#6
Bromomethane
Concen: 14.372 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 94 Resp: 44144

Ion	Ratio	Lower	Upper
94	100		
96	89.6	77.6	116.4



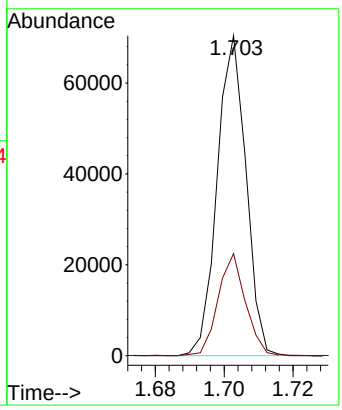


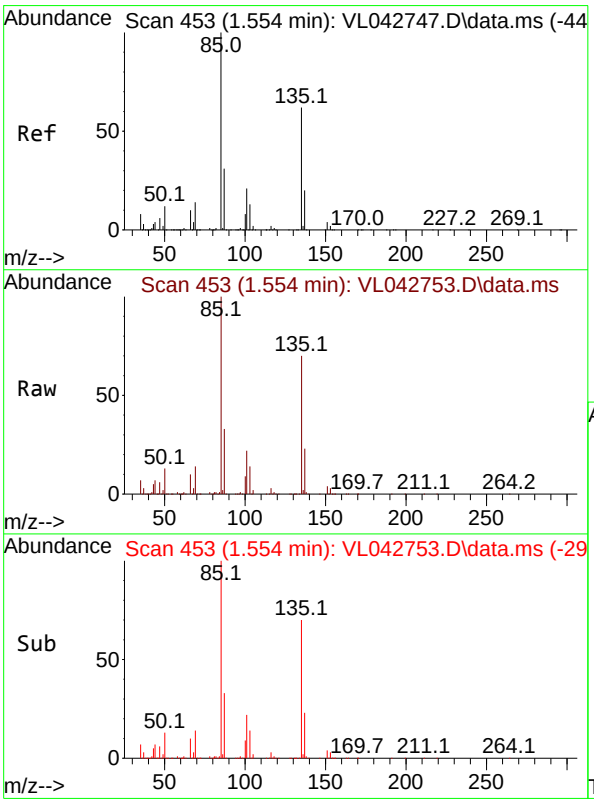
#7
Chloroethane
Concen: 13.327 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 64 Resp: 40909

Ion	Ratio	Lower	Upper
64	100		
66	31.9	24.1	36.1

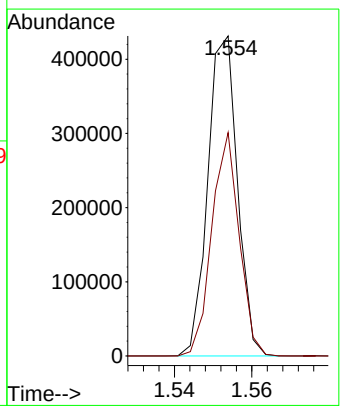


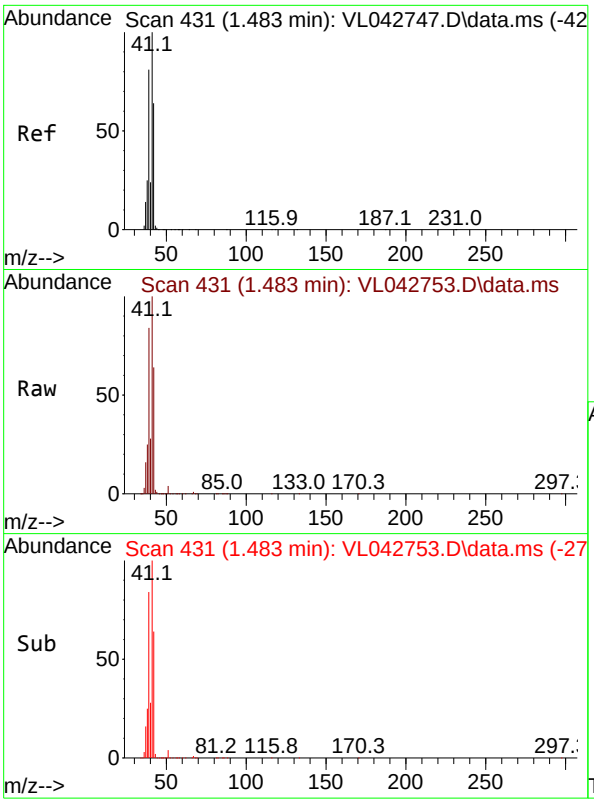


#8
Dichlorotetrafluoroethane
Concen: 14.028 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 85 Resp: 229298

Ion	Ratio	Lower	Upper
85	100		
135	64.4	50.6	76.0



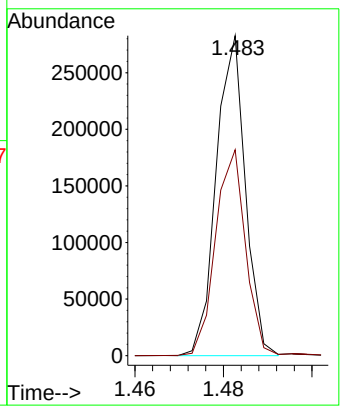


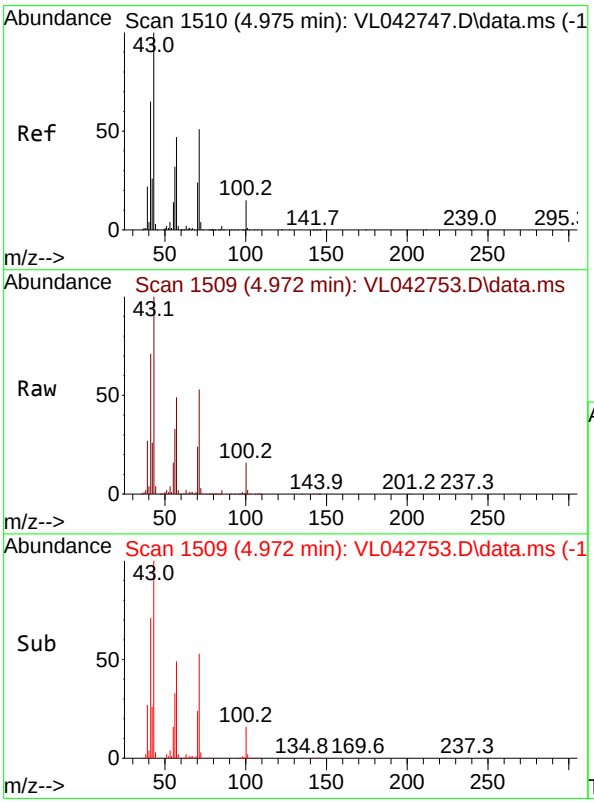
#9
Propene
Concen: 13.716 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 129069

Ion	Ratio	Lower	Upper
41	100		
42	67.0	53.2	79.8

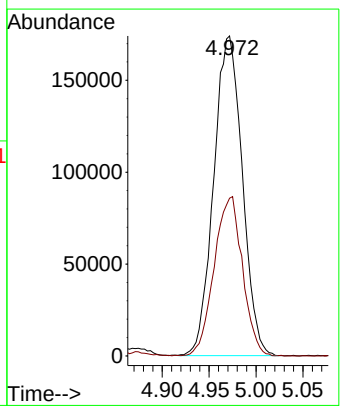


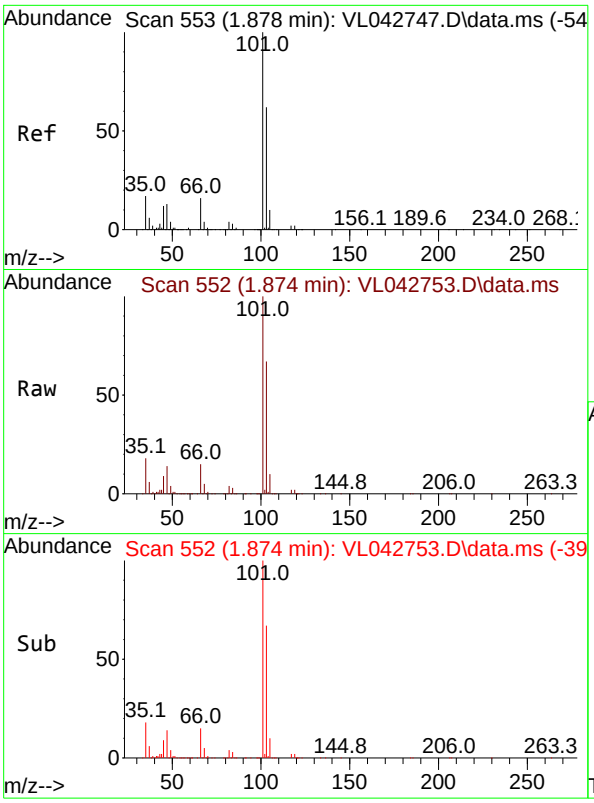


#10
Heptane
Concen: 14.563 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 43 Resp: 368612

Ion	Ratio	Lower	Upper
43	100		
57	49.4	39.9	59.9



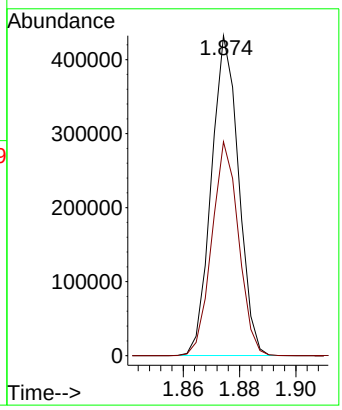


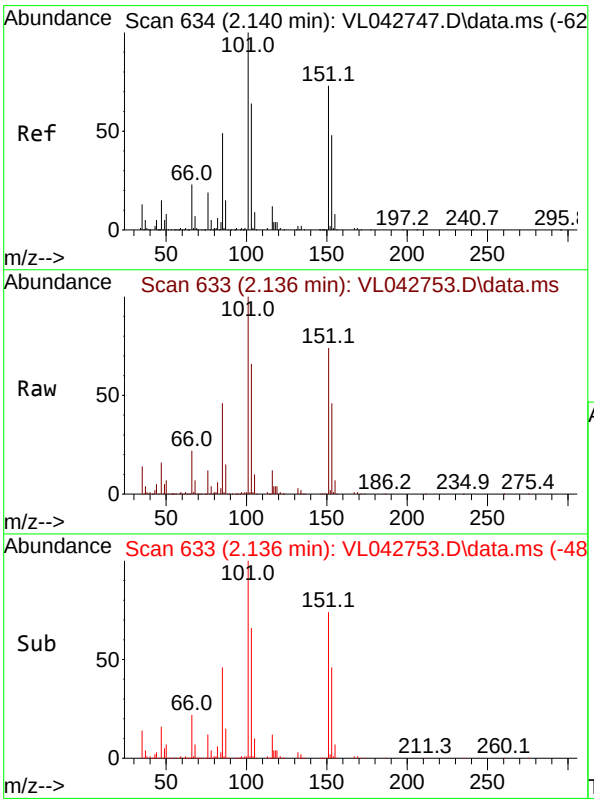
#11
Trichlorofluoromethane
Concen: 14.143 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:101 Resp: 289764

Ion	Ratio	Lower	Upper
101	100		
103	66.8	49.6	74.4

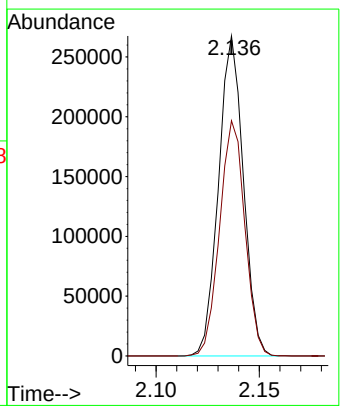


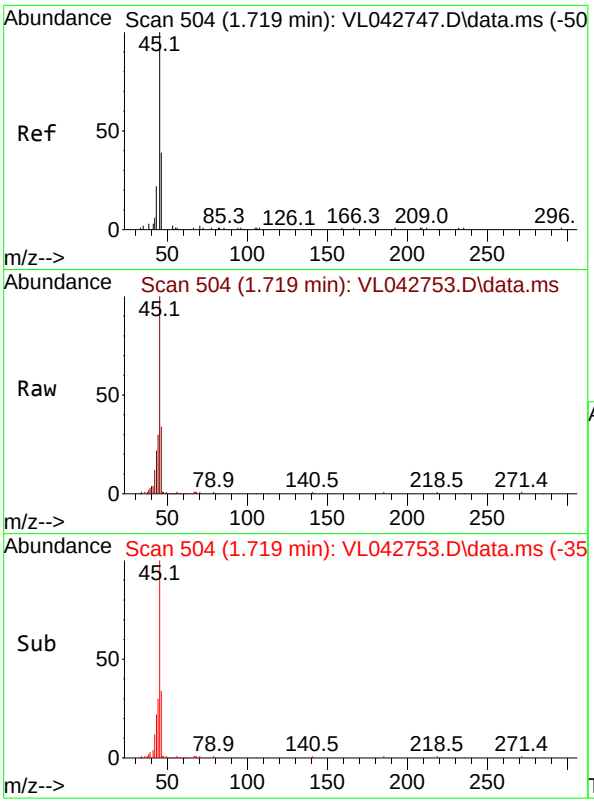


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.358 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:101 Resp: 223552

Ion	Ratio	Lower	Upper
101	100		
151	74.9	60.5	90.7



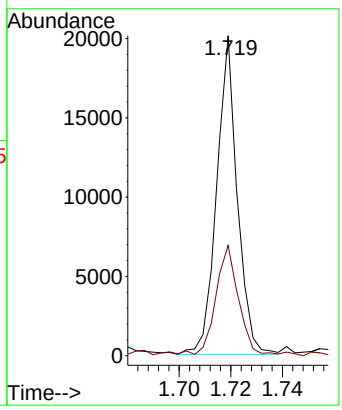


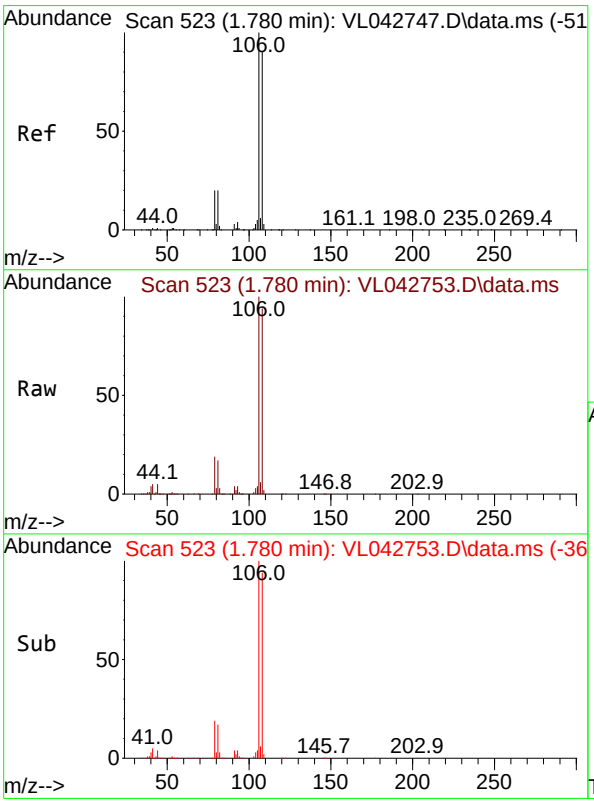
#13
Ethanol
Concen: 15.142 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 11145

Ion	Ratio	Lower	Upper
45	100		
46	35.4	17.8	71.4

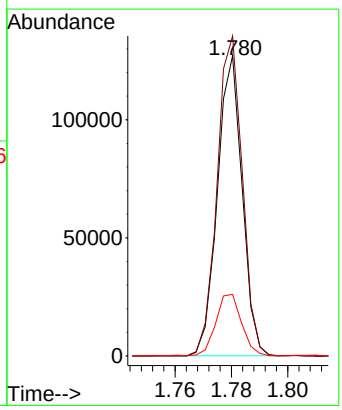


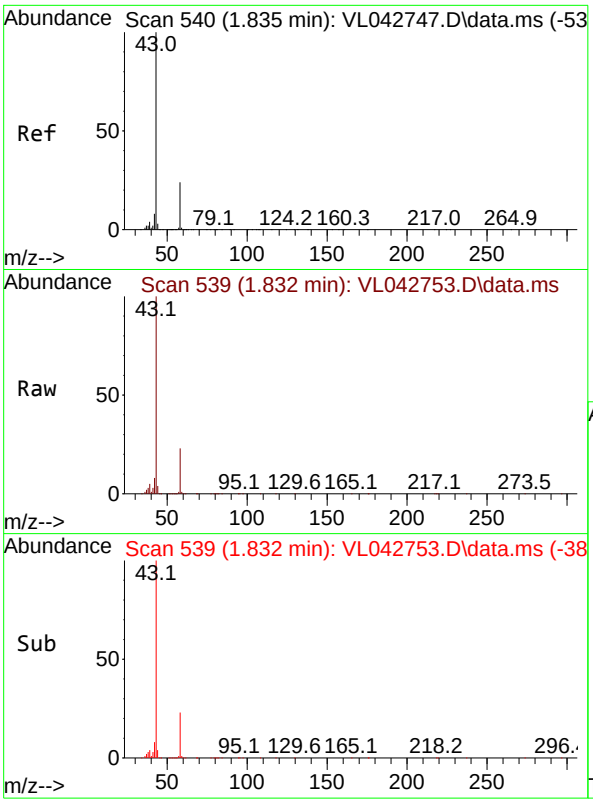


#14
Bromoethene
Concen: 14.047 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:108 Resp: 77435

Ion	Ratio	Lower	Upper
108	100		
106	108.5	84.7	127.1
79	22.3	17.4	26.2



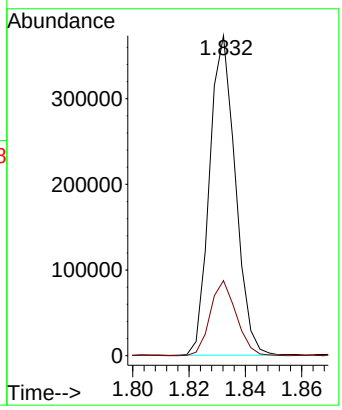


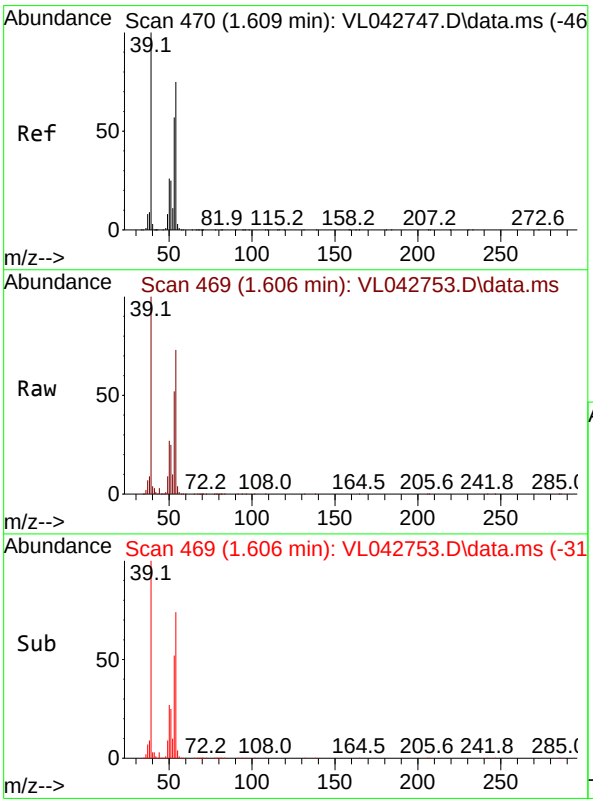
#15
Acetone
Concen: 11.449 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 237665

Ion	Ratio	Lower	Upper
43	100		
58	24.0	19.8	29.8

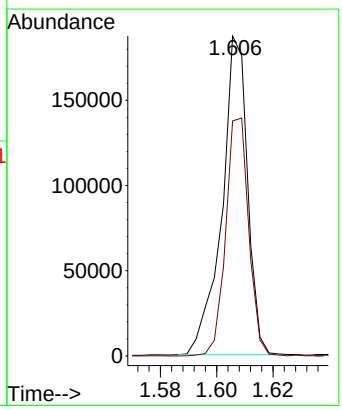


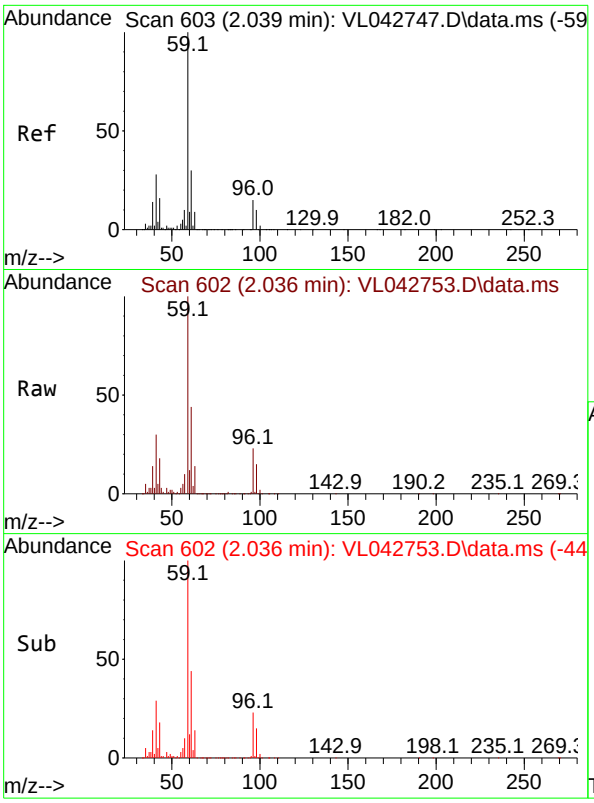


#16
1,3-Butadiene
Concen: 13.355 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 39 Resp: 118252

Ion	Ratio	Lower	Upper
39	100		
54	67.5	54.5	81.7



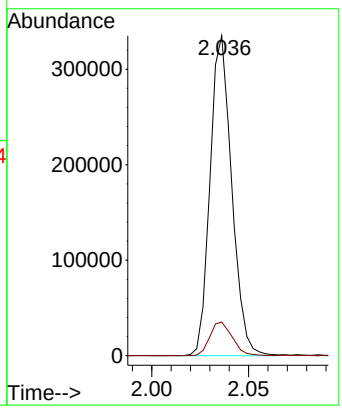


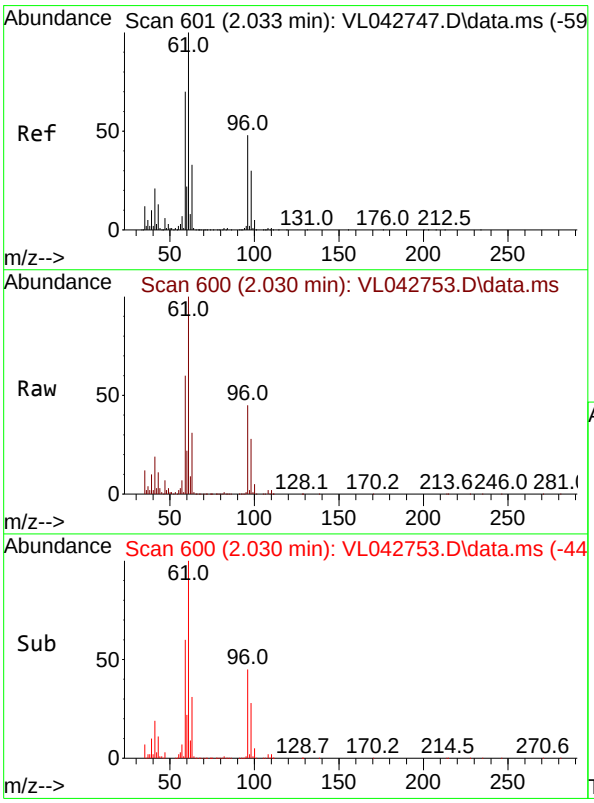
#17
tert-Butyl alcohol
Concen: 13.919 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 59 Resp: 260587

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.3	12.5

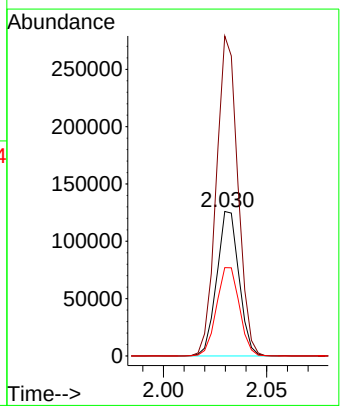


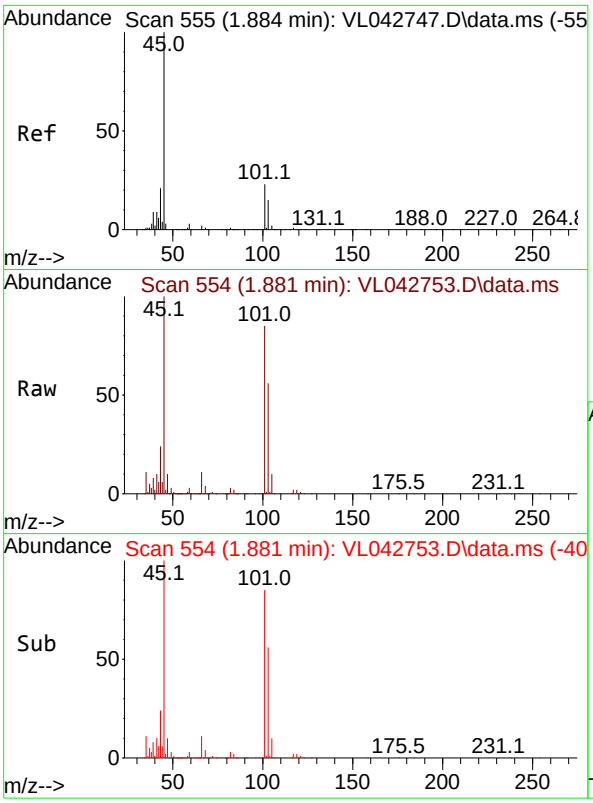


#18
1,1-Dichloroethene
Concen: 13.382 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 96 Resp: 94140

Ion	Ratio	Lower	Upper
96	100		
61	221.6	165.8	248.6
98	61.2	49.9	74.9



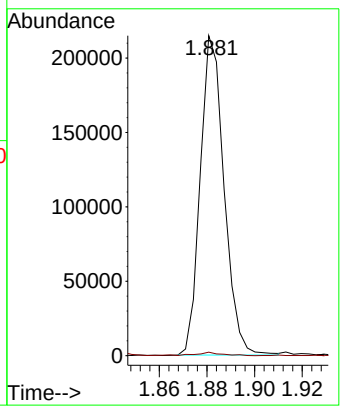


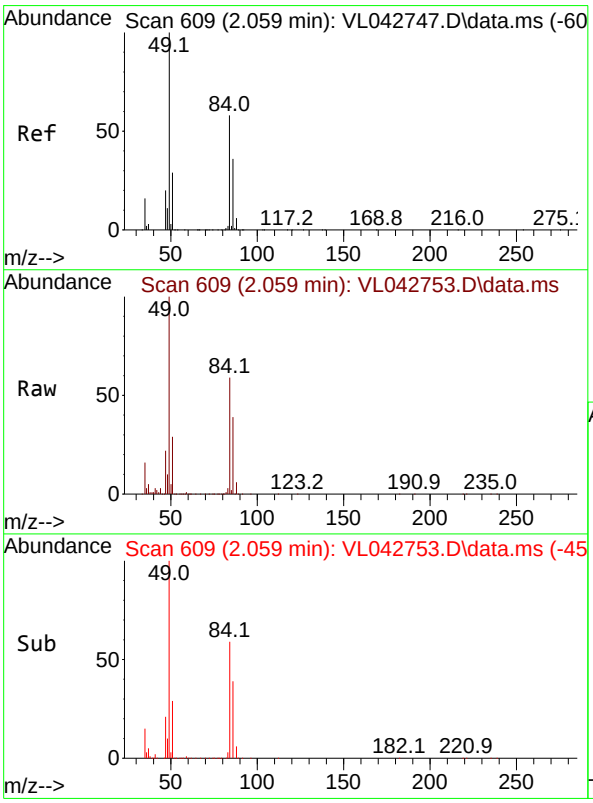
#19
Isopropyl Alcohol
Concen: 13.549 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 149463

Ion	Ratio	Lower	Upper
45	100		
58	38.1	30.0	45.0

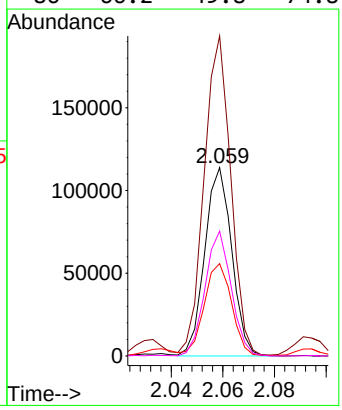


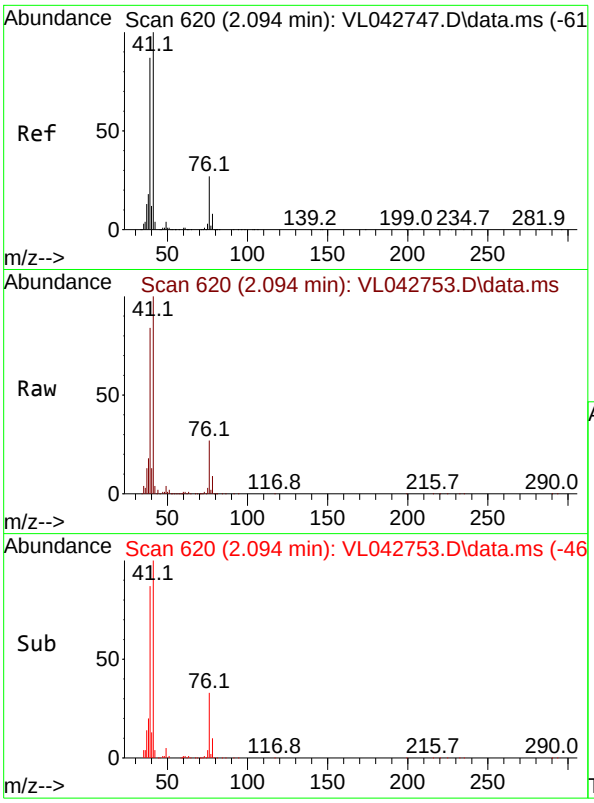


#20
Methylene Chloride
Concen: 12.651 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 84 Resp: 82755

Ion	Ratio	Lower	Upper
84	100		
49	169.2	138.6	208.0
51	48.6	40.6	61.0
86	66.2	49.8	74.8



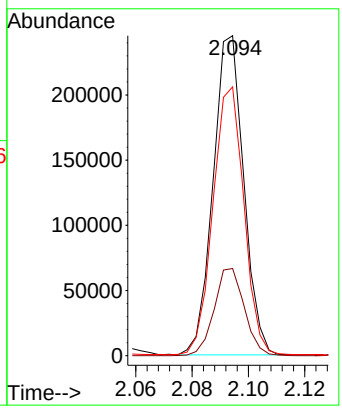


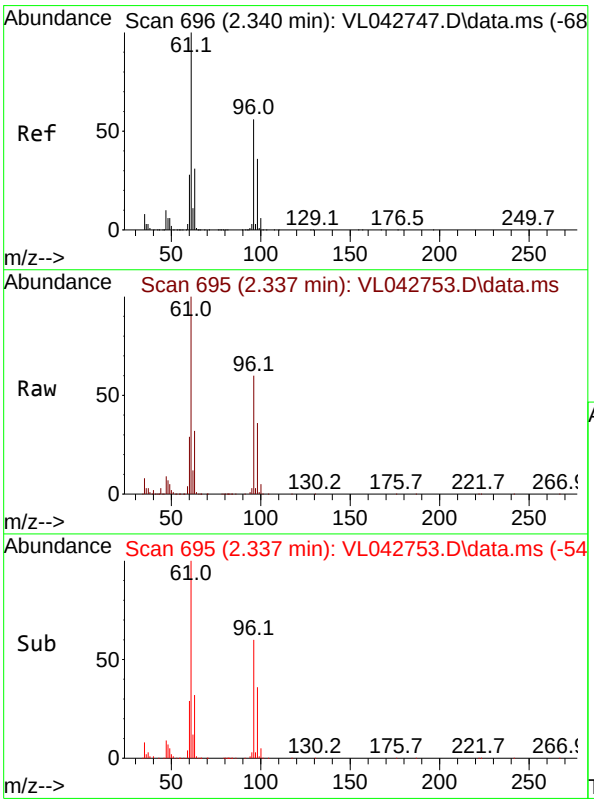
#21
Allyl Chloride
Concen: 14.476 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 185201

Ion	Ratio	Lower	Upper
41	100		
76	26.9	21.1	31.7
39	85.2	68.3	102.5

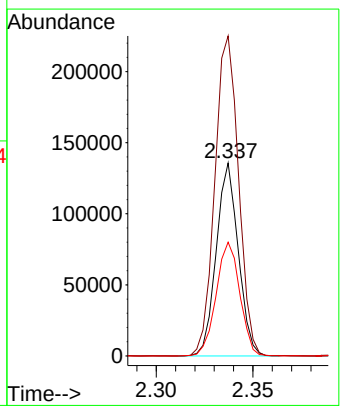


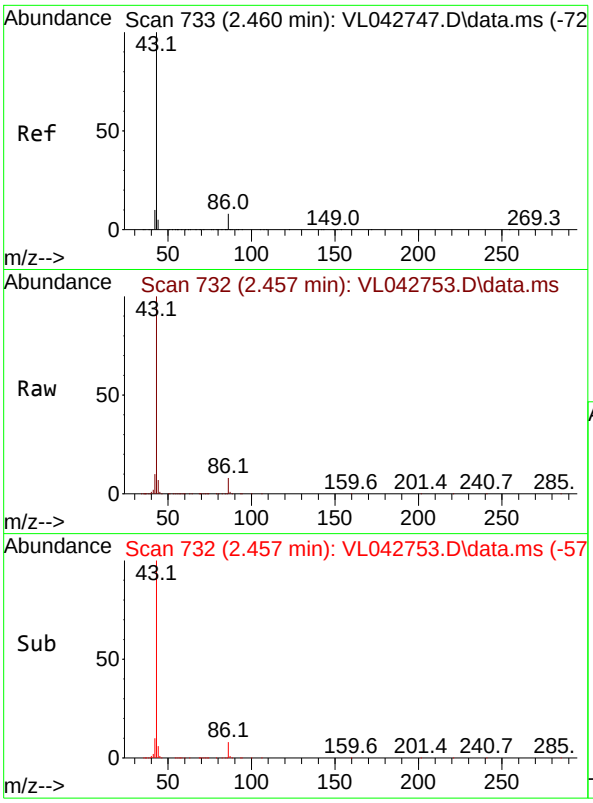


#22
trans-1,2-Dichloroethene
Concen: 14.160 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 96 Resp: 107003

Ion	Ratio	Lower	Upper
96	100		
61	165.9	142.3	213.5
98	59.0	50.6	76.0



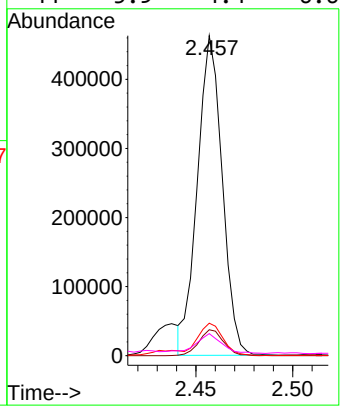


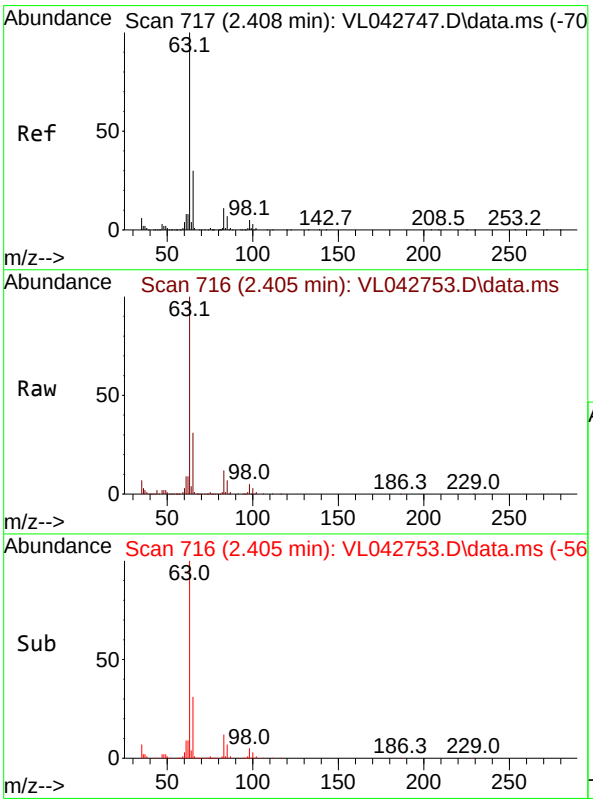
#23
Vinyl Acetate
Concen: 16.426 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 413378

Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.1	9.1
42	10.1	7.8	11.8
44	5.9	4.4	6.6

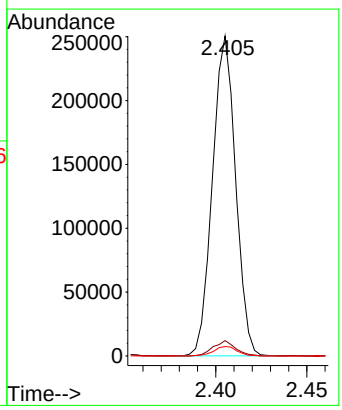


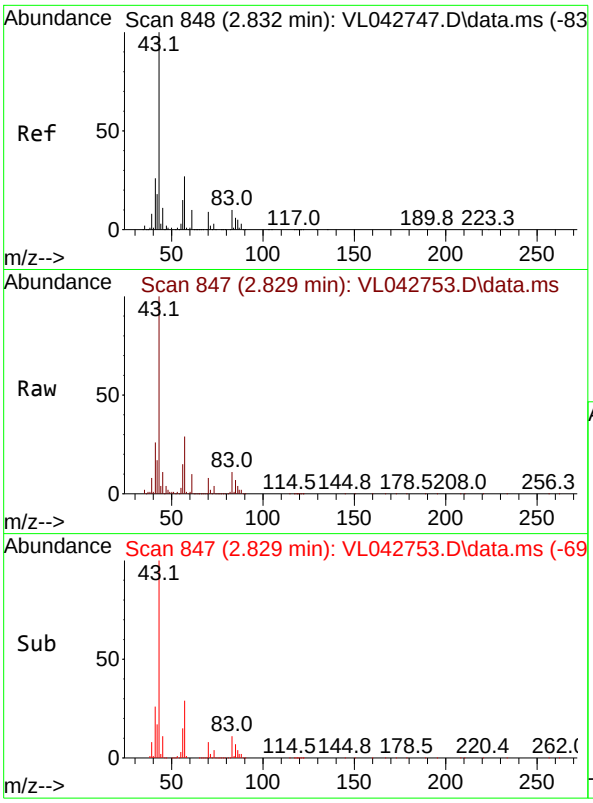


#24
1,1-Dichloroethane
Concen: 14.239 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 63 Resp: 221175

Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.5	7.4
100	2.9	1.6	4.8



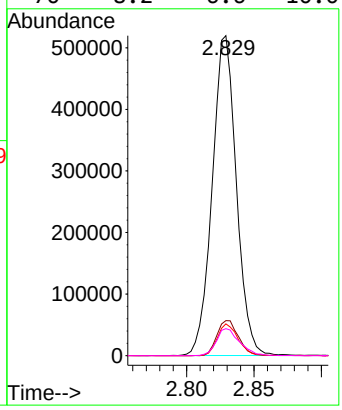


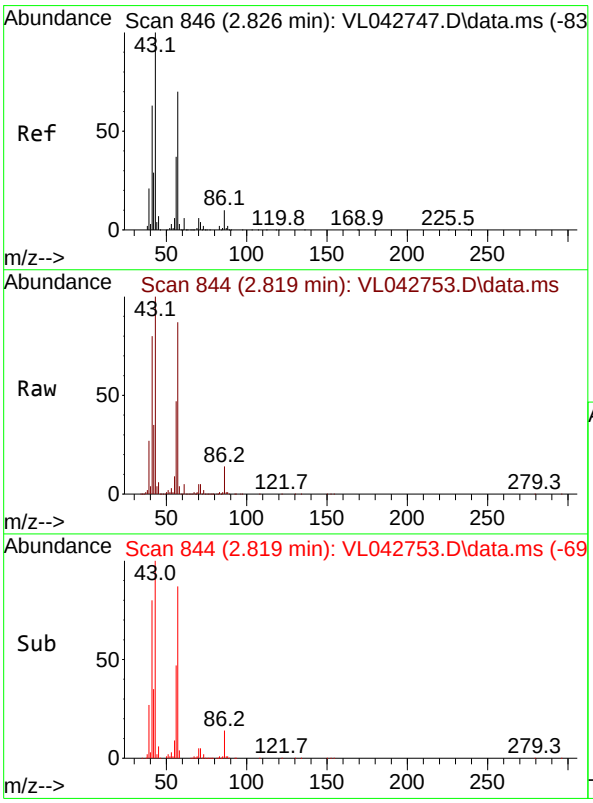
#25
Ethyl Acetate
Concen: 14.084 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 647150

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.6
61	8.6	6.7	10.1
70	8.2	6.6	10.0

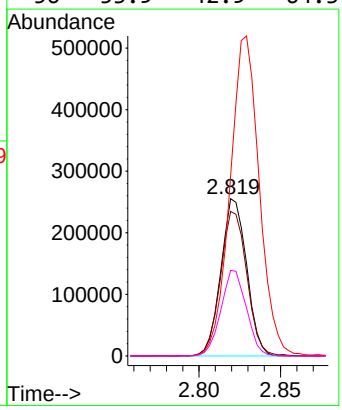


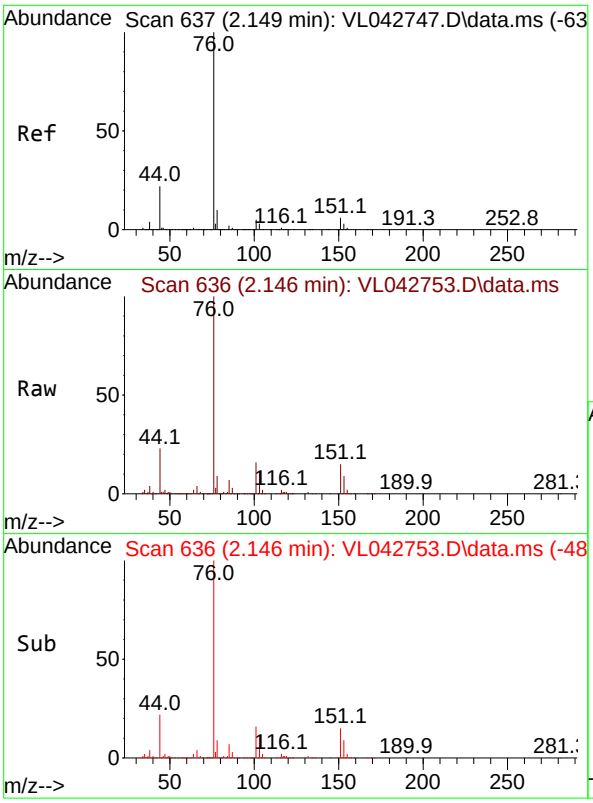


#26
Hexane
Concen: 13.869 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 57 Resp: 279549

Ion	Ratio	Lower	Upper
57	100		
41	94.6	75.4	113.2
43	232.7	185.0	277.6
56	53.9	42.9	64.3



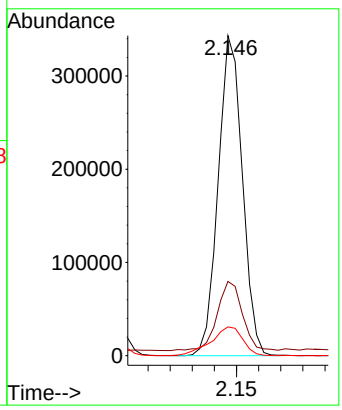


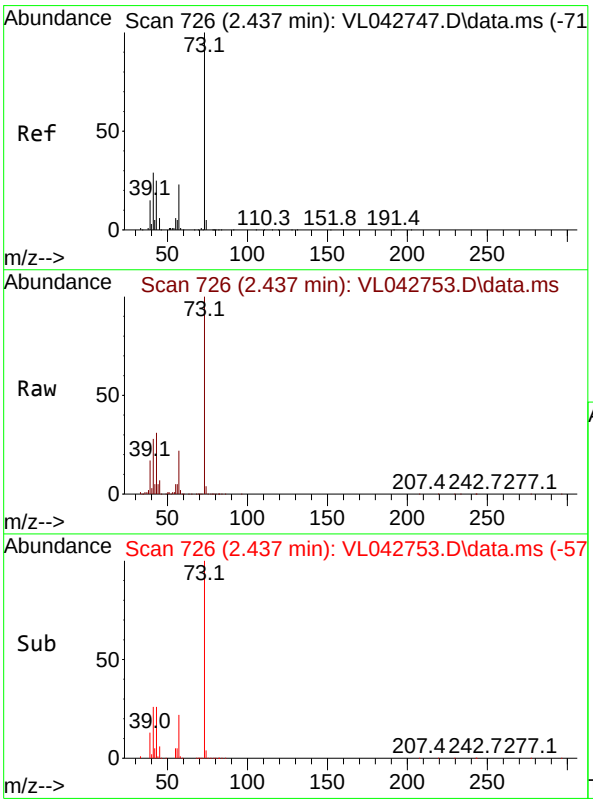
#27
Carbon Disulfide
Concen: 15.119 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 76 Resp: 260884

Ion	Ratio	Lower	Upper
76	100		
44	23.1	19.3	28.9
78	11.9	9.9	14.9

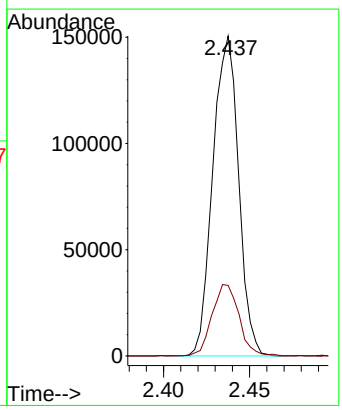


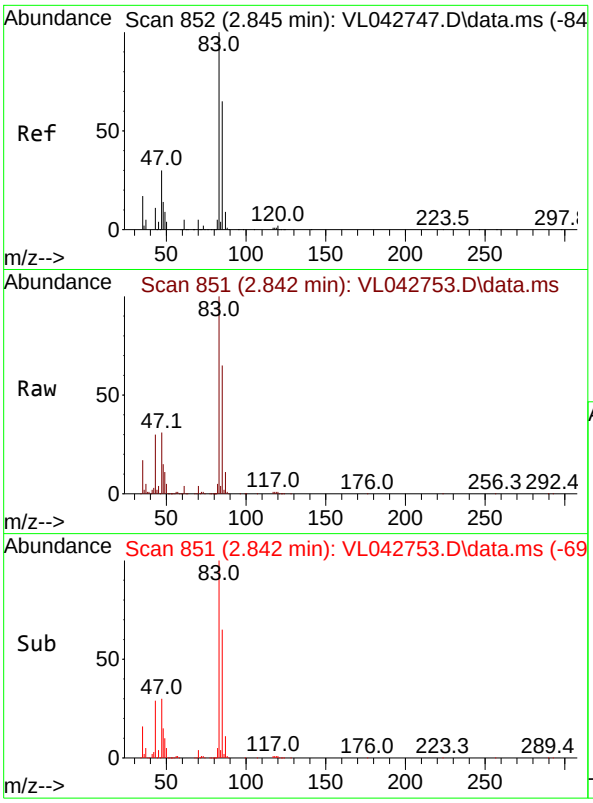


#28
Methyl tert-Butyl Ether
Concen: 16.477 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 73 Resp: 156895

Ion	Ratio	Lower	Upper
73	100		
57	23.5	19.8	29.8



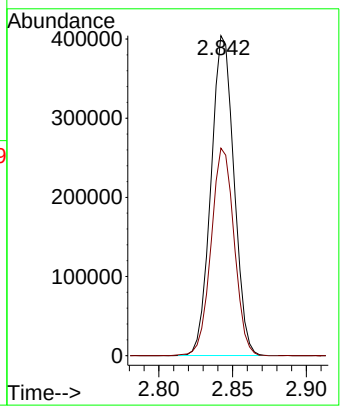


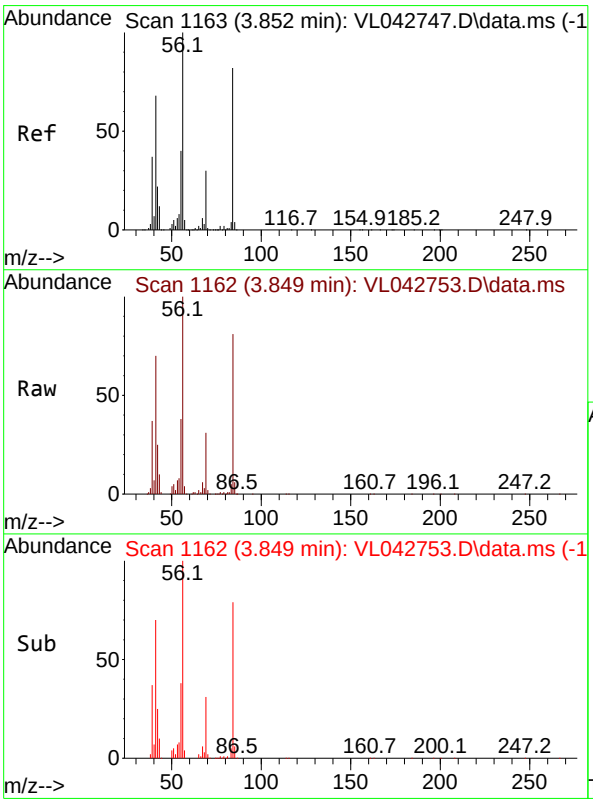
#29
Chloroform
Concen: 14.067 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 438155

Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.2	78.2

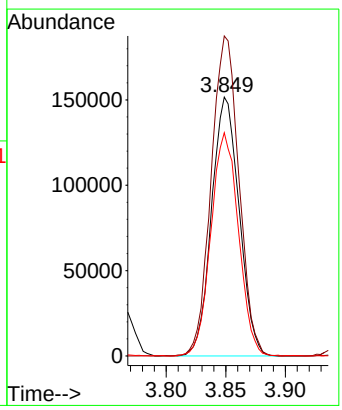


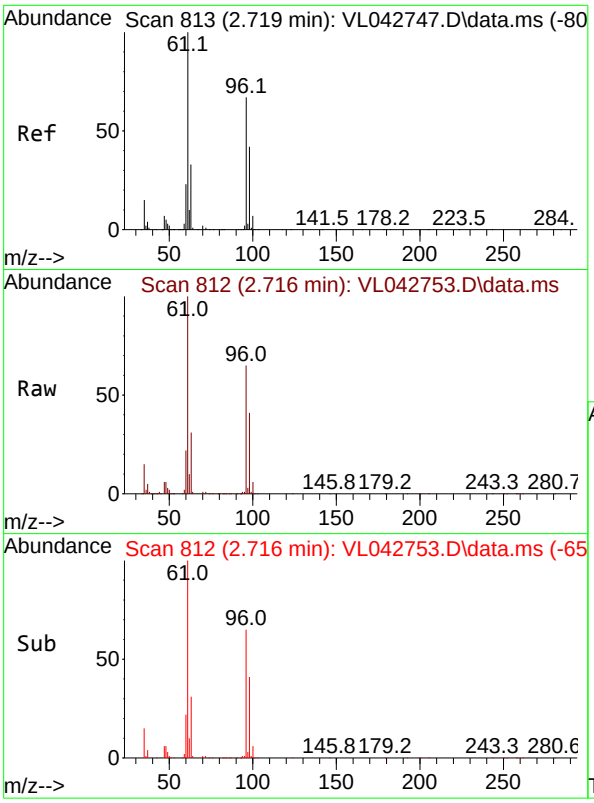


#30
Cyclohexane
Concen: 14.280 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 84 Resp: 244116

Ion	Ratio	Lower	Upper
84	100		
56	124.4	97.5	146.3
41	85.9	67.2	100.8



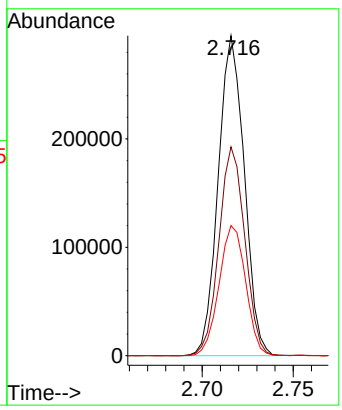


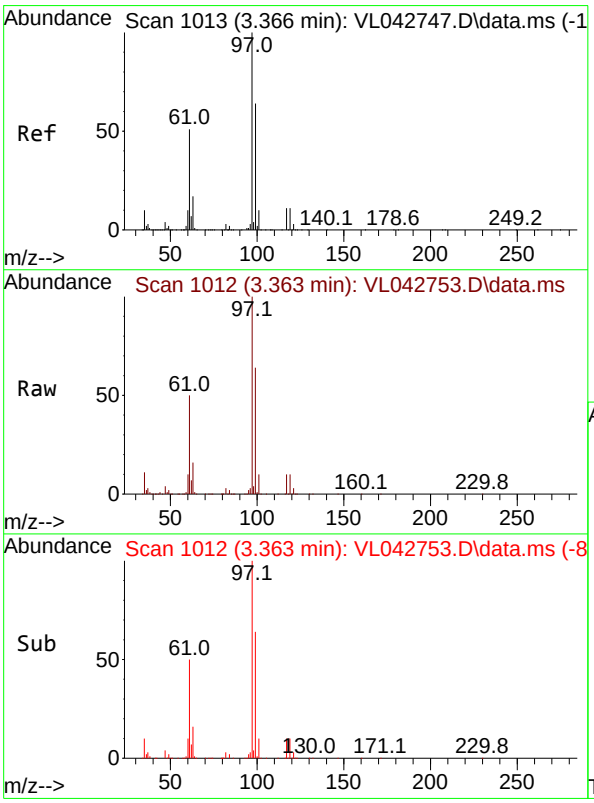
#31
cis-1,2-Dichloroethene
Concen: 14.192 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 61 Resp: 293947

Ion	Ratio	Lower	Upper
61	100		
96	65.3	53.5	80.3
98	40.7	33.6	50.4

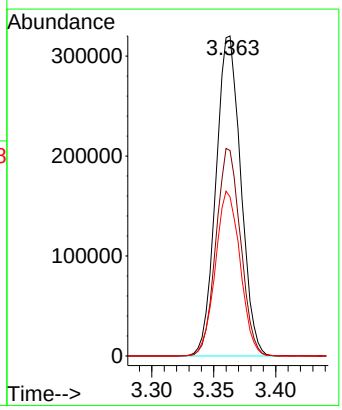


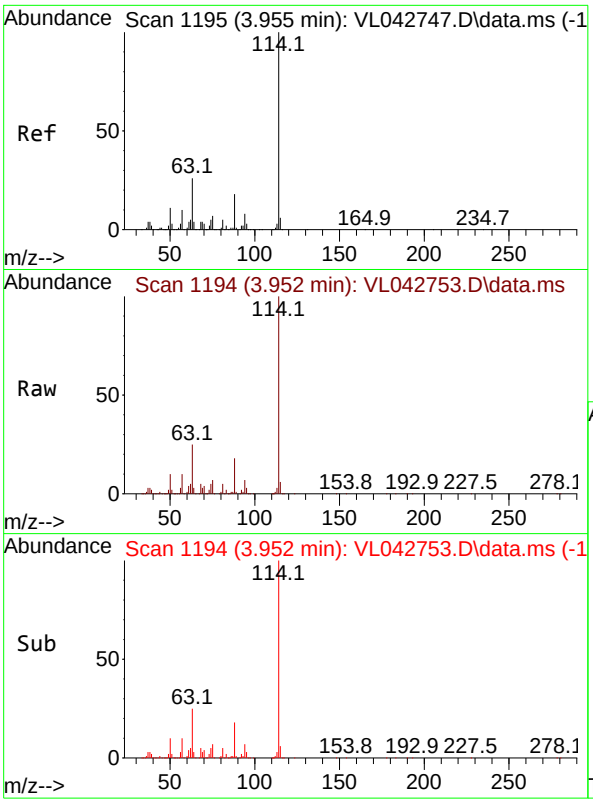


#32
1,1,1-Trichloroethane
Concen: 13.796 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 97 Resp: 447592

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.0	76.6
61	51.5	40.9	61.3



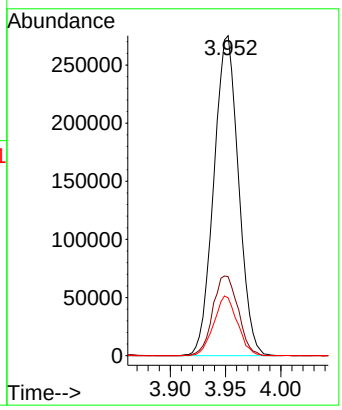


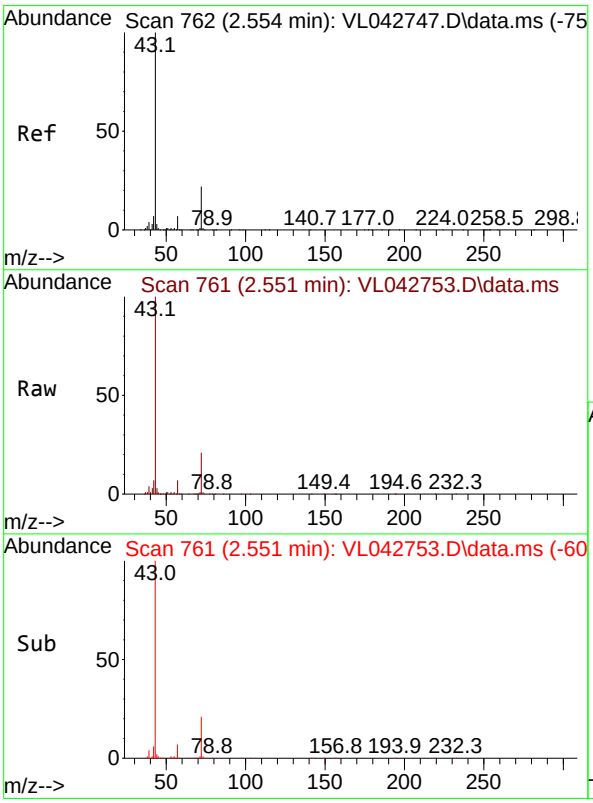
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:114 Resp: 427438

Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.5	30.7
88	17.9	14.0	21.0

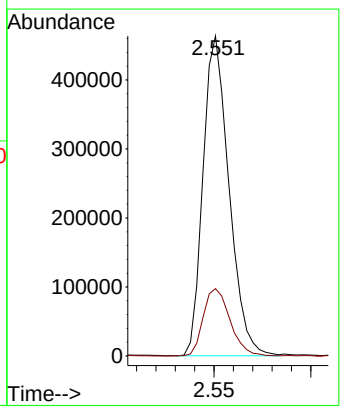


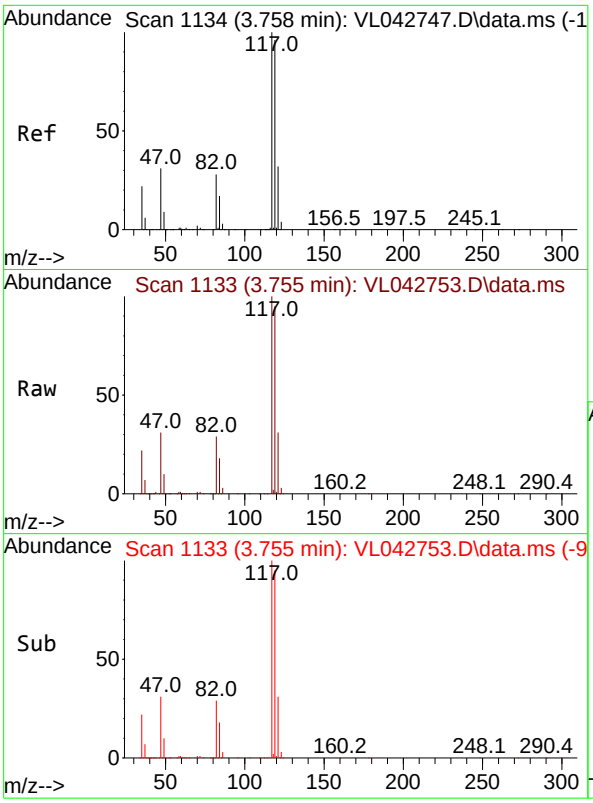


#34
2-Butanone
Concen: 14.297 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 43 Resp: 432873

Ion	Ratio	Lower	Upper
43	100		
72	21.8	17.4	26.0



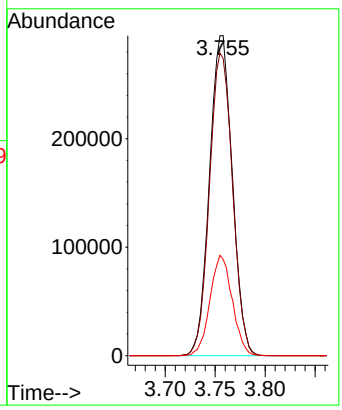


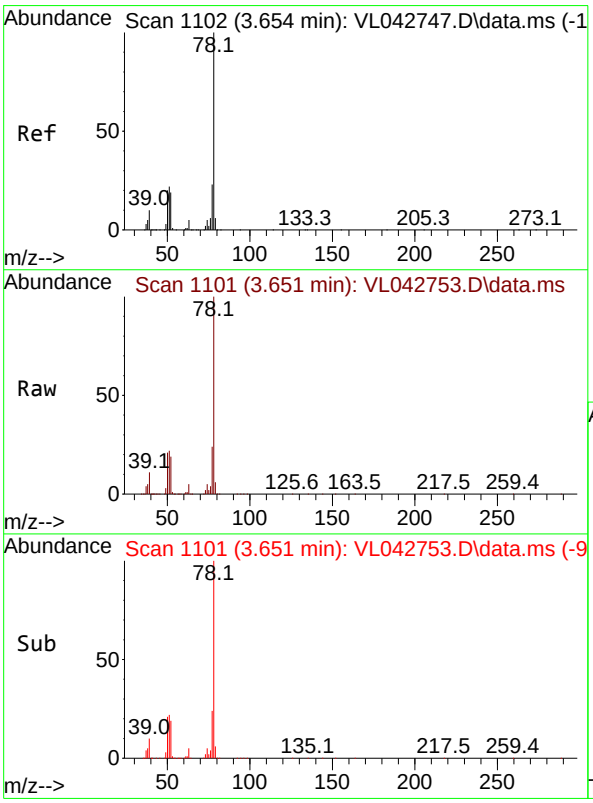
#35
Carbon Tetrachloride
Concen: 14.764 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:117 Resp: 468957

Ion	Ratio	Lower	Upper
117	100		
119	94.6	77.1	115.7
121	31.4	25.5	38.3

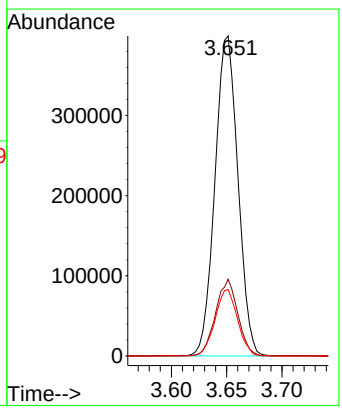


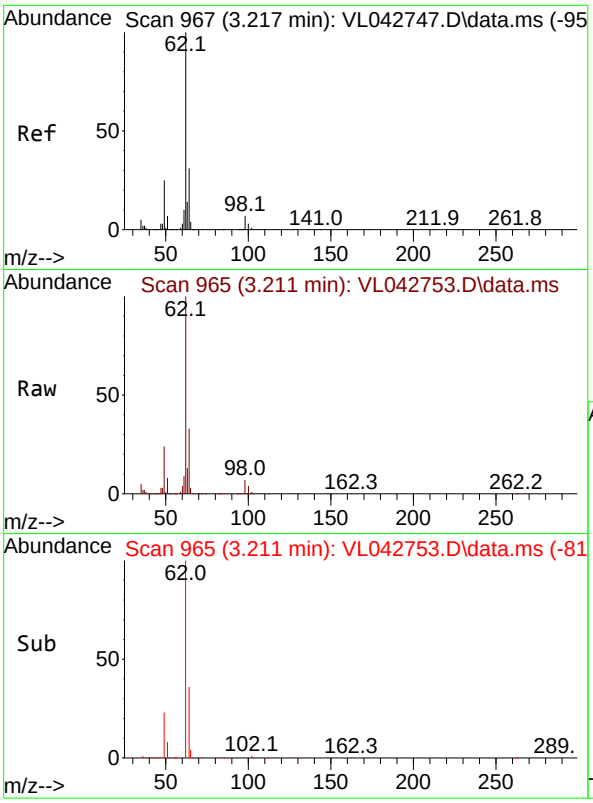


#36
Benzene
Concen: 14.247 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 78 Resp: 577153

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.5	27.7
50	20.7	16.2	24.2



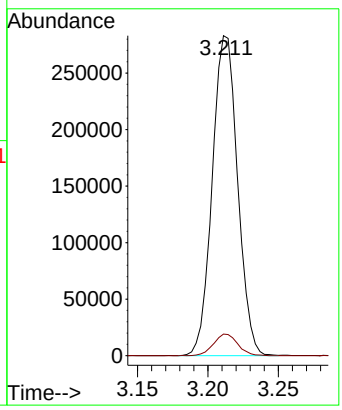


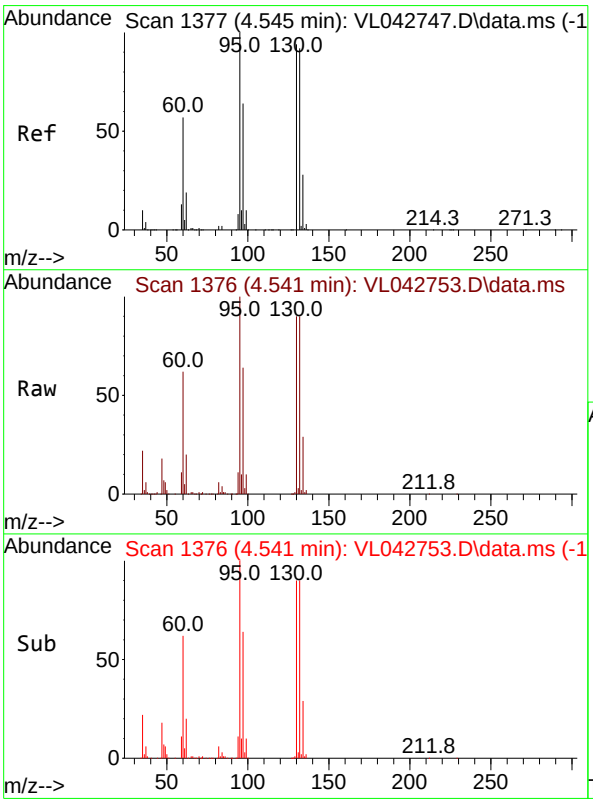
#37
1,2-Dichloroethane
Concen: 14.533 ppbv
RT: 3.211 min Scan# 9
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 354637

Ion	Ratio	Lower	Upper
62	100		
98	6.5	5.2	7.8

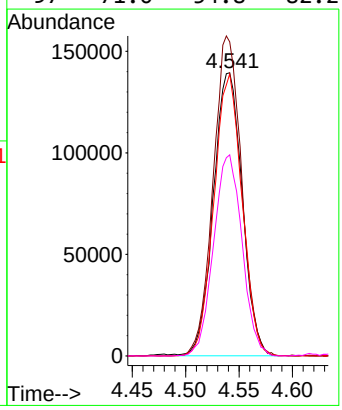


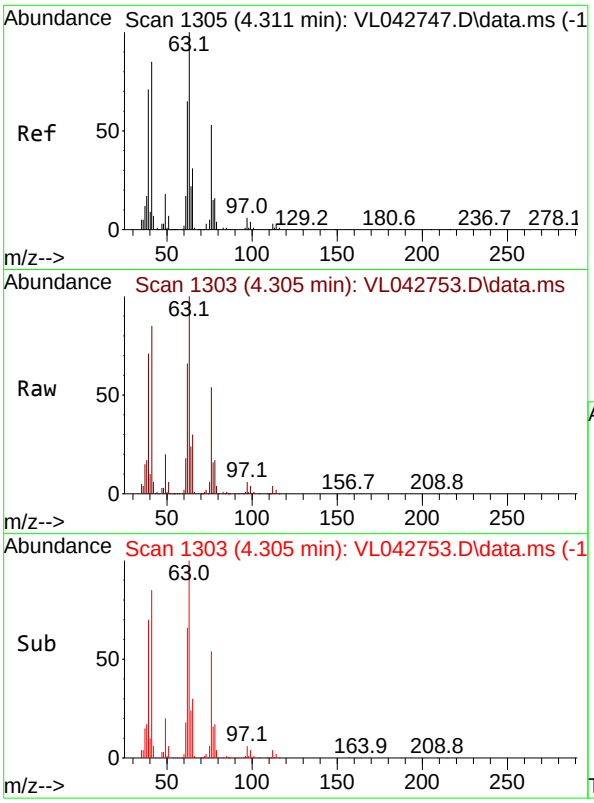


#38
Trichloroethene
Concen: 13.416 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:130 Resp: 262041

Ion	Ratio	Lower	Upper
130	100		
95	110.8	85.4	128.2
132	99.5	78.2	117.2
97	71.0	54.8	82.2



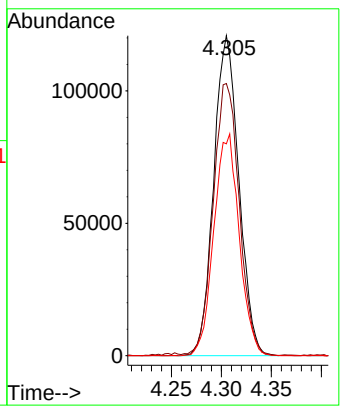


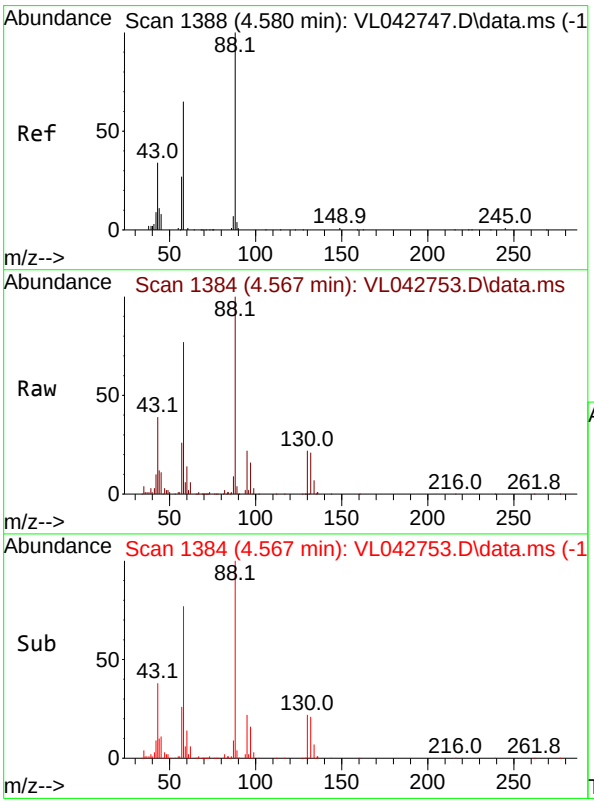
#39
1,2-Dichloropropane
Concen: 14.150 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 63 Resp: 211594

Ion	Ratio	Lower	Upper
63	100		
41	85.0	68.2	102.4
62	66.2	52.0	78.0

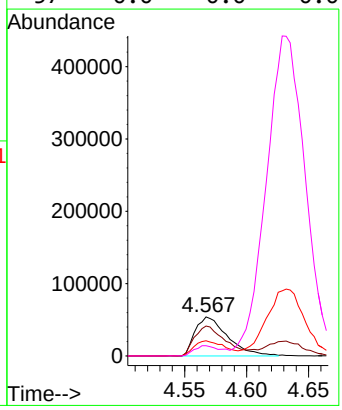


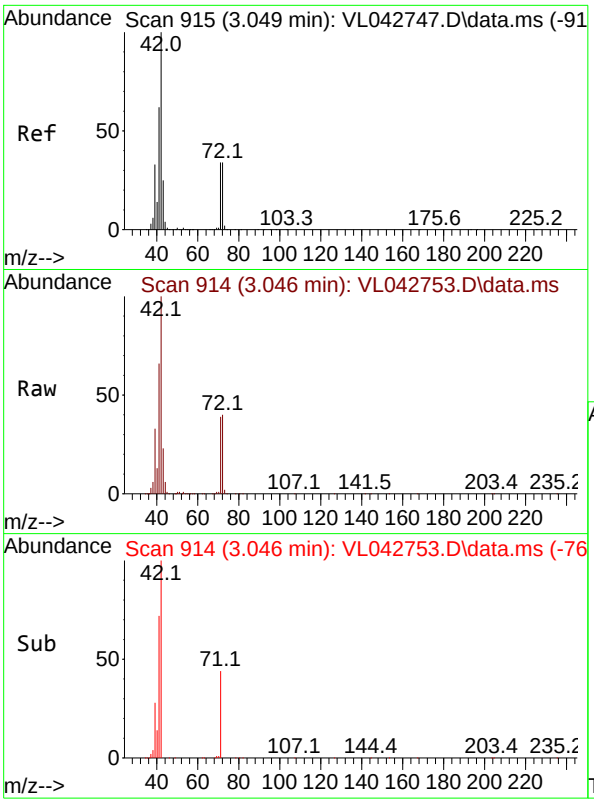


#40
1,4-Dioxane
Concen: 13.926 ppbv
RT: 4.567 min Scan# 1384
Delta R.T. -0.013 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 88 Resp: 98196

Ion	Ratio	Lower	Upper
88	100		
58	71.9	58.8	88.2
43	35.8	28.9	43.3
57	0.0	0.0	0.0



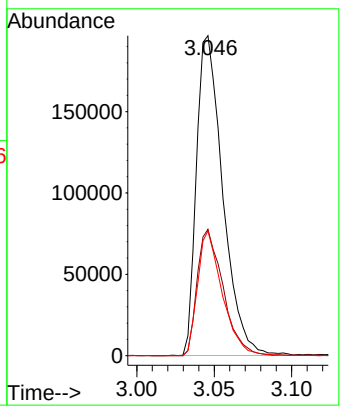


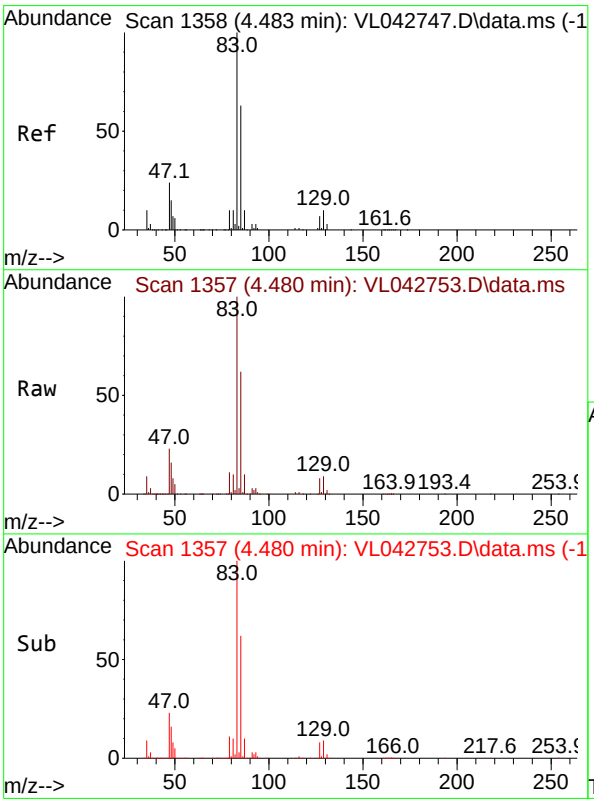
#41
Tetrahydrofuran
Concen: 15.278 ppbv
RT: 3.046 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 42 Resp: 232393

Ion	Ratio	Lower	Upper
42	100		
72	39.2	30.9	46.3
71	36.6	28.6	43.0

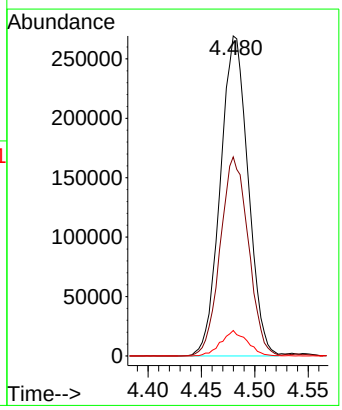


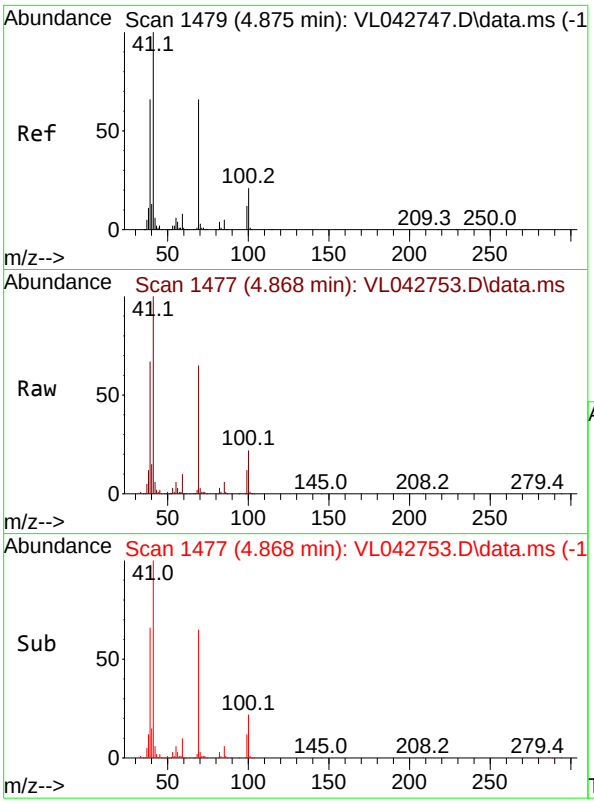


#42
Bromodichloromethane
Concen: 15.303 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 83 Resp: 486831

Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.2	75.4
127	8.0	5.4	8.2



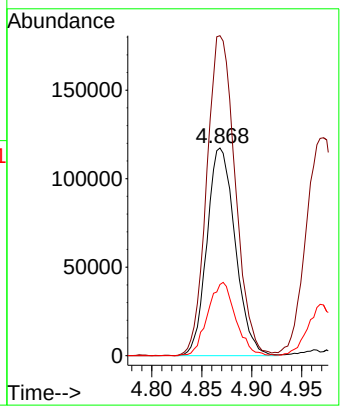


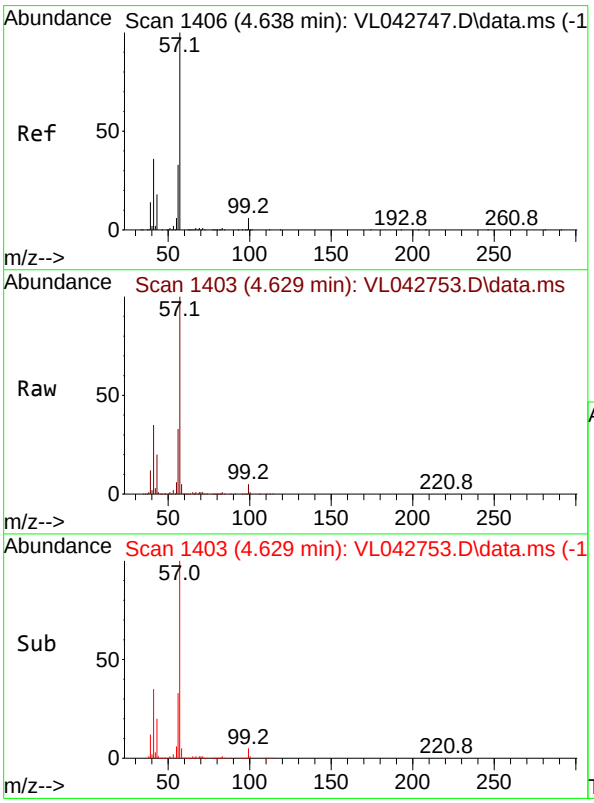
#43
Methyl Methacrylate
Concen: 16.059 ppbv
RT: 4.868 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 69 Resp: 231227

Ion	Ratio	Lower	Upper
69	100		
41	155.0	125.7	188.5
100	34.8	28.6	42.8

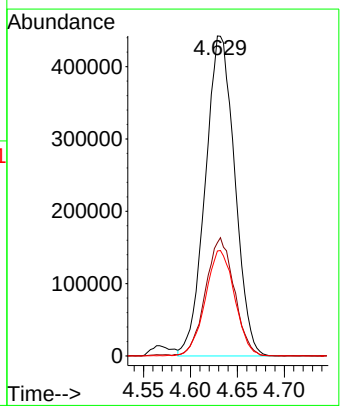


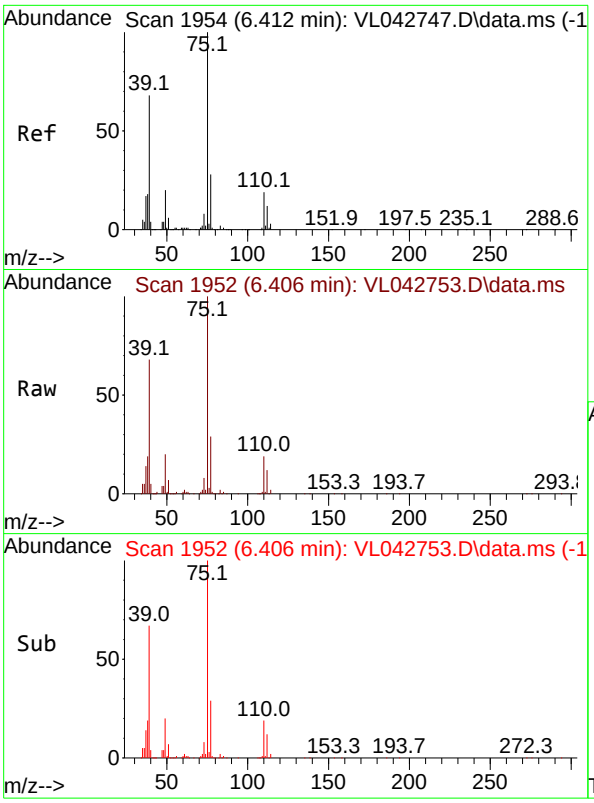


#44
2,2,4-Trimethylpentane
Concen: 14.598 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 57 Resp: 963867

Ion	Ratio	Lower	Upper
57	100		
41	36.4	28.3	42.5
56	32.9	25.8	38.6



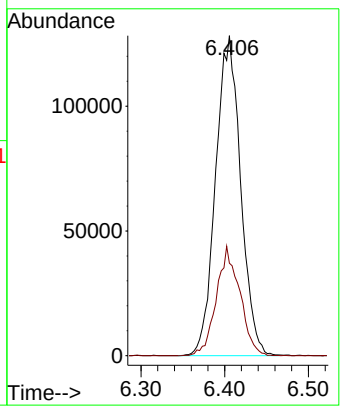


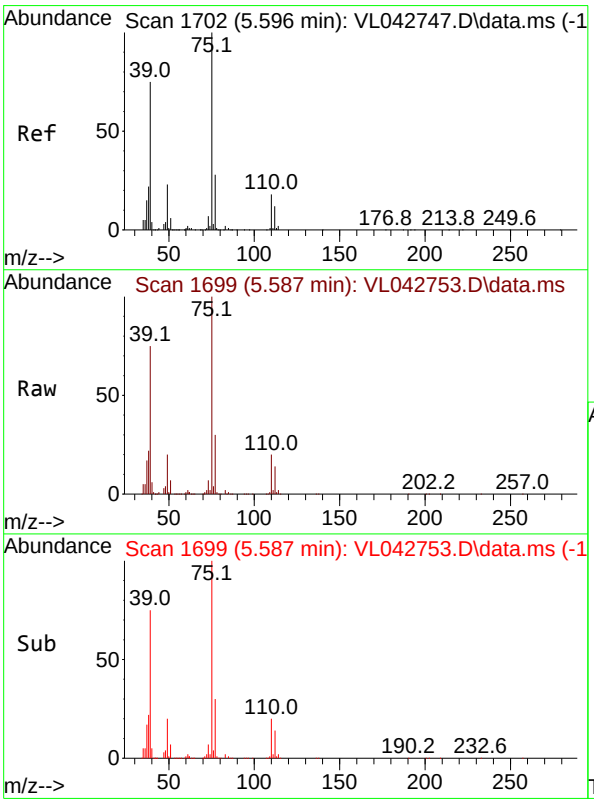
#45
t-1,3-Dichloropropene
Concen: 16.478 ppbv
RT: 6.406 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 75 Resp: 266194

Ion	Ratio	Lower	Upper
75	100		
77	28.9	22.4	33.6

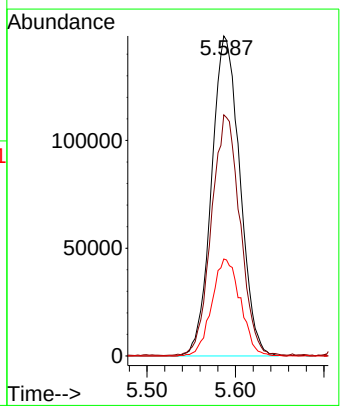


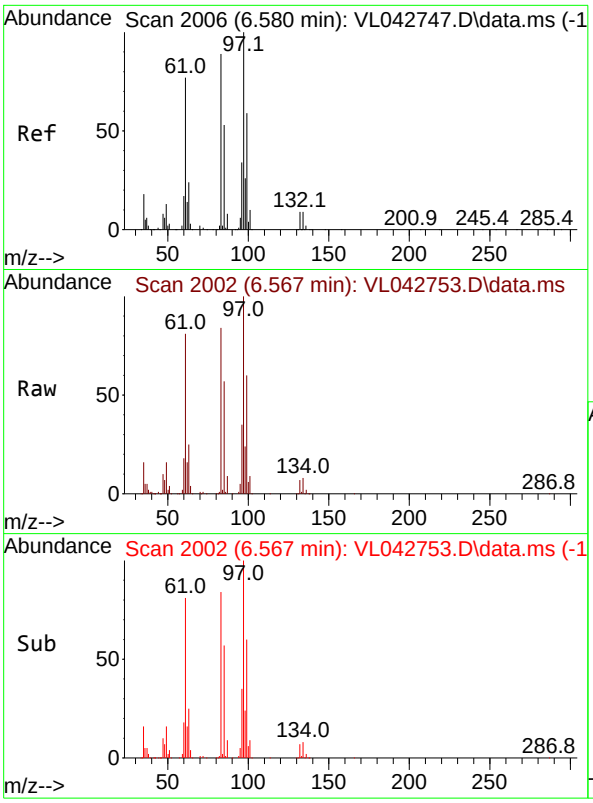


#46
cis-1,3-Dichloropropene
Concen: 16.115 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.010 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 75 Resp: 329850

Ion	Ratio	Lower	Upper
75	100		
39	74.8	60.2	90.2
77	30.2	22.6	34.0



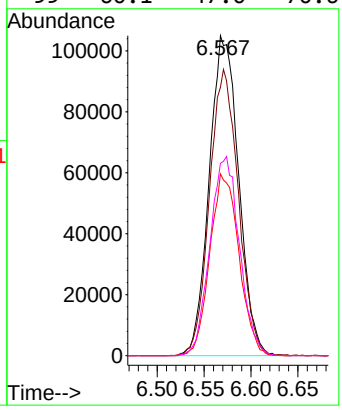


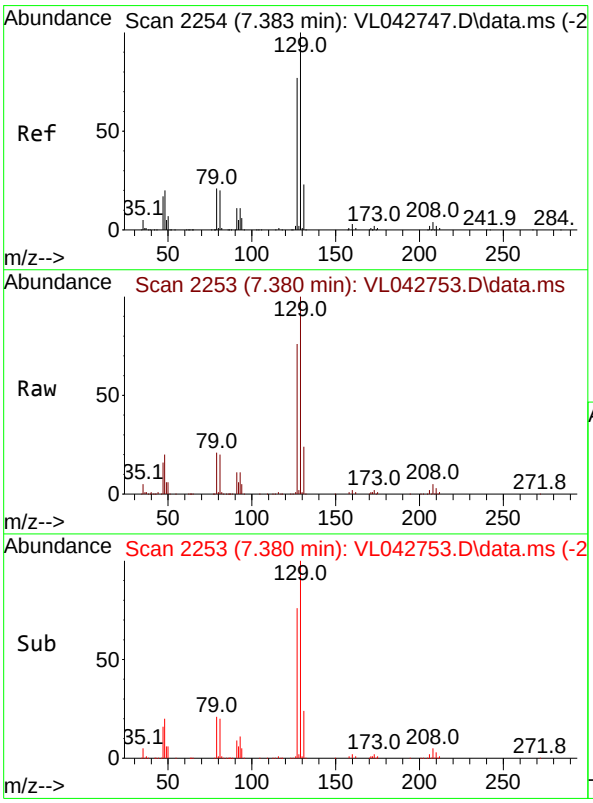
#47
1,1,2-Trichloroethane
Concen: 14.335 ppbv
RT: 6.567 min Scan# 2
Delta R.T. -0.013 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 97 Resp: 228492

Ion	Ratio	Lower	Upper
97	100		
83	83.7	71.1	106.7
85	56.7	43.0	64.4
99	60.1	47.0	70.6

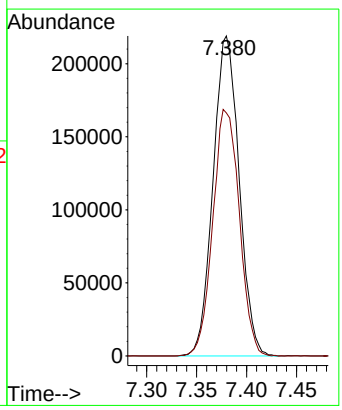


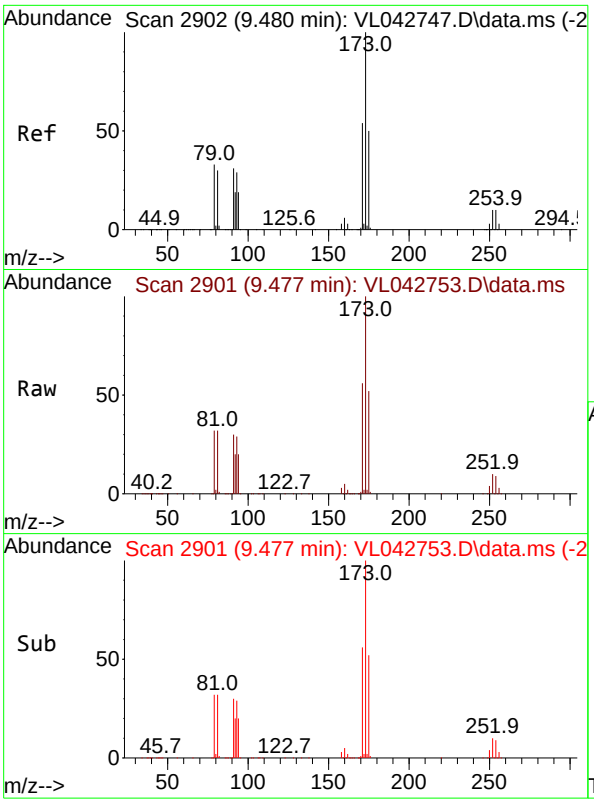


#48
Dibromochloromethane
Concen: 15.695 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:129 Resp: 397179

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.7	116.1



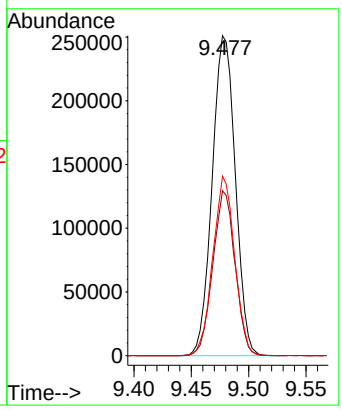


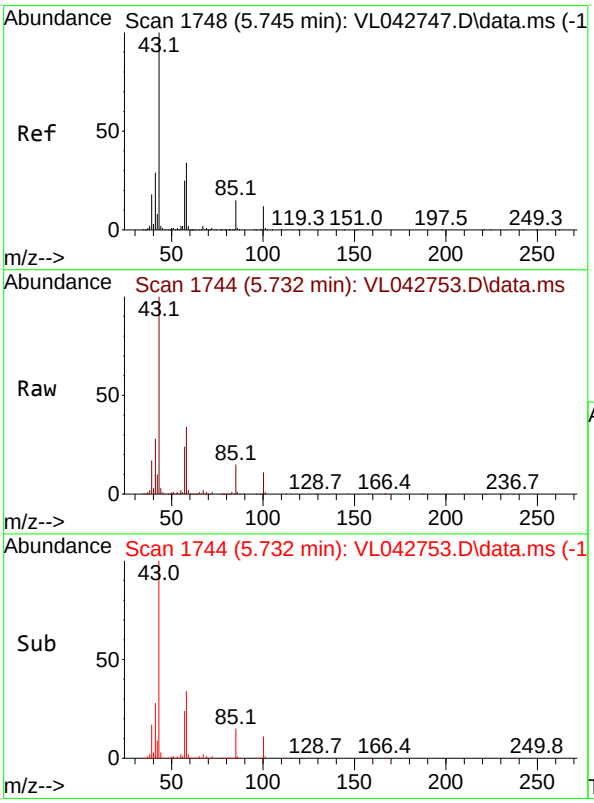
#49
Bromoform
Concen: 15.955 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:173 Resp: 352050

Ion	Ratio	Lower	Upper
173	100		
175	49.6	38.4	57.6
171	53.1	40.9	61.3

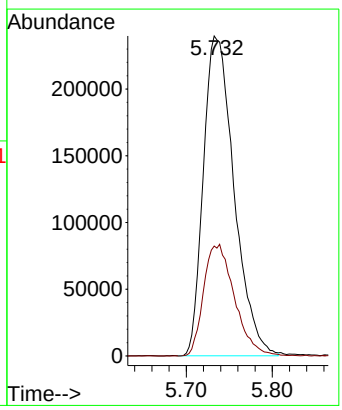


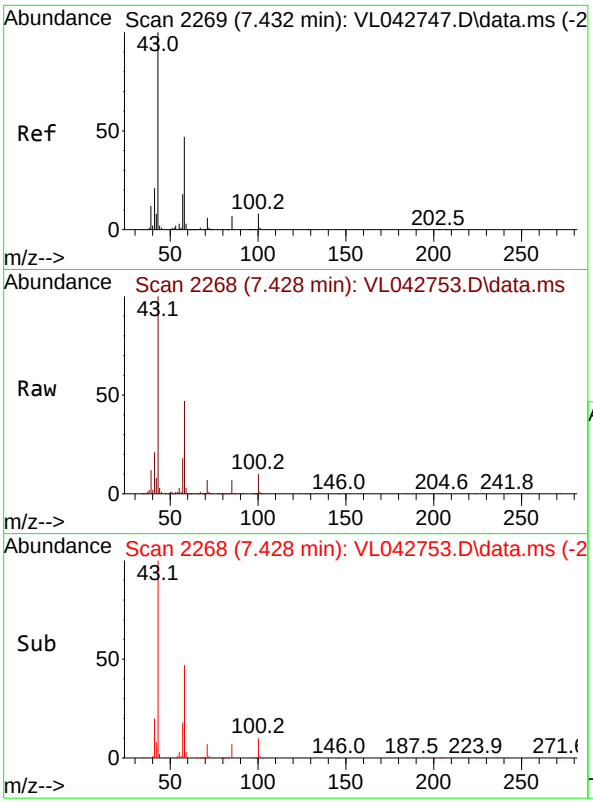


#50
4-Methyl-2-Pentanone
Concen: 15.427 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. -0.013 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 43 Resp: 594973

Ion	Ratio	Lower	Upper
43	100		
58	35.1	27.8	41.8



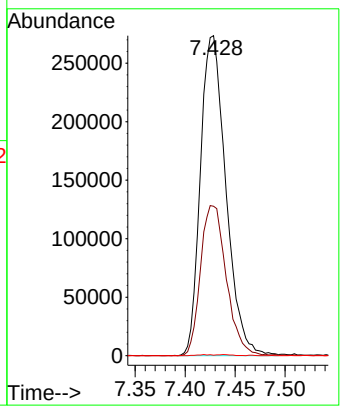


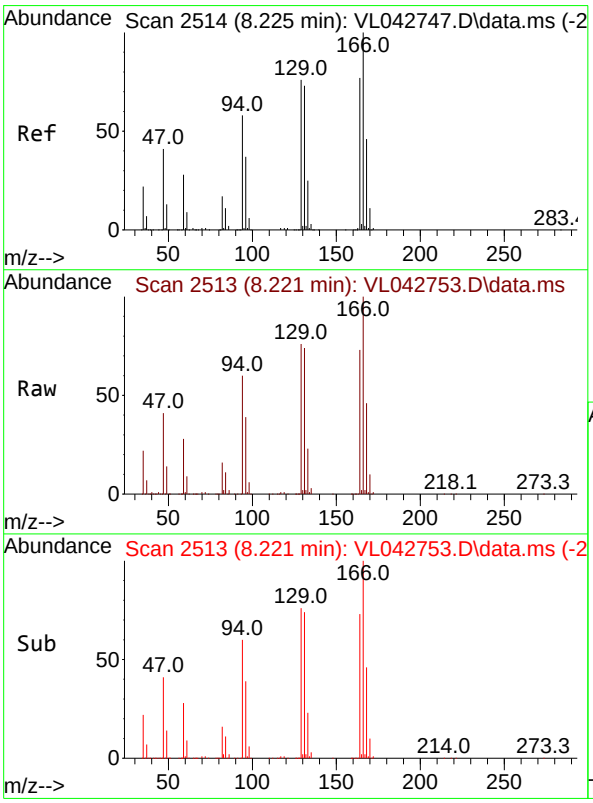
#51
2-Hexanone
Concen: 16.467 ppbv
RT: 7.428 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 485325

Ion	Ratio	Lower	Upper
43	100		
58	47.7	38.0	57.0
98	0.4	0.2	0.4#

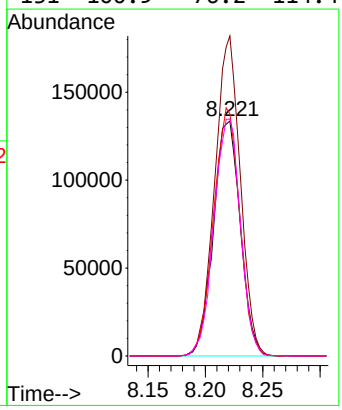


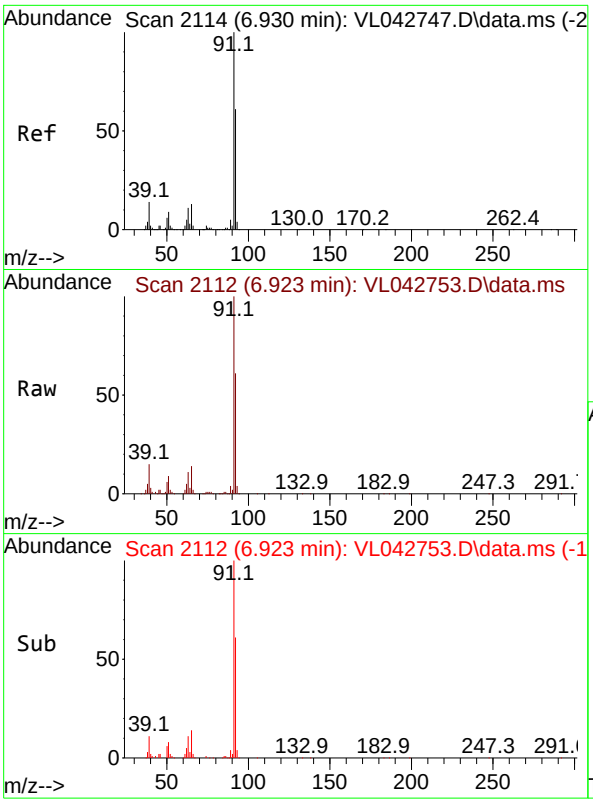


#52
Tetrachloroethene
Concen: 12.899 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:164 Resp: 217184

Ion	Ratio	Lower	Upper
164	100		
166	136.3	104.0	156.0
129	103.1	79.2	118.8
131	100.9	76.2	114.4



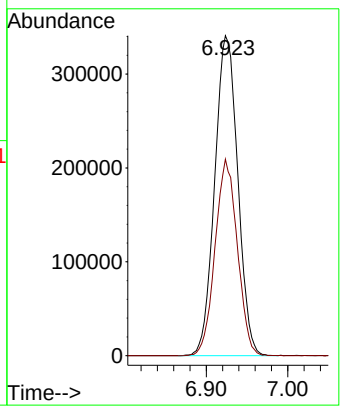


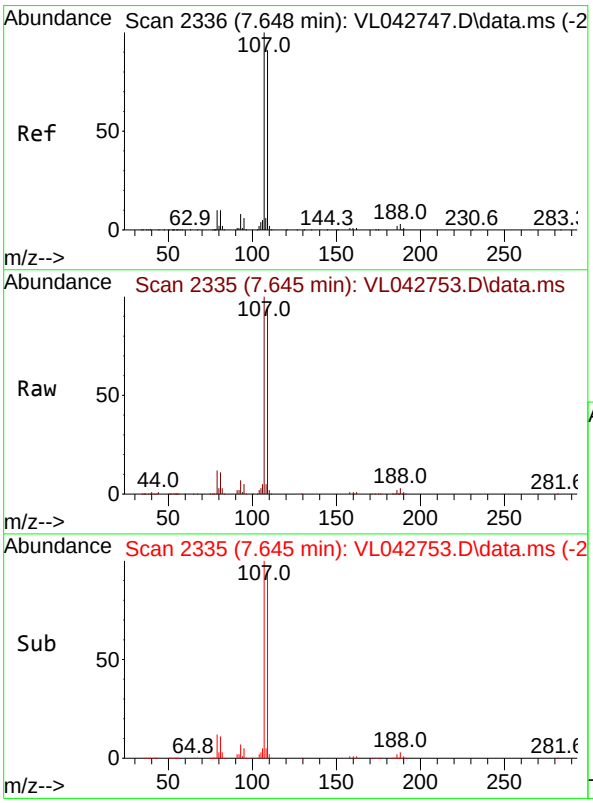
#53
Toluene
Concen: 15.405 ppbv
RT: 6.923 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 670142

Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.0	72.0

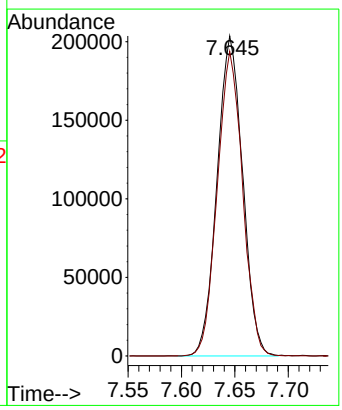


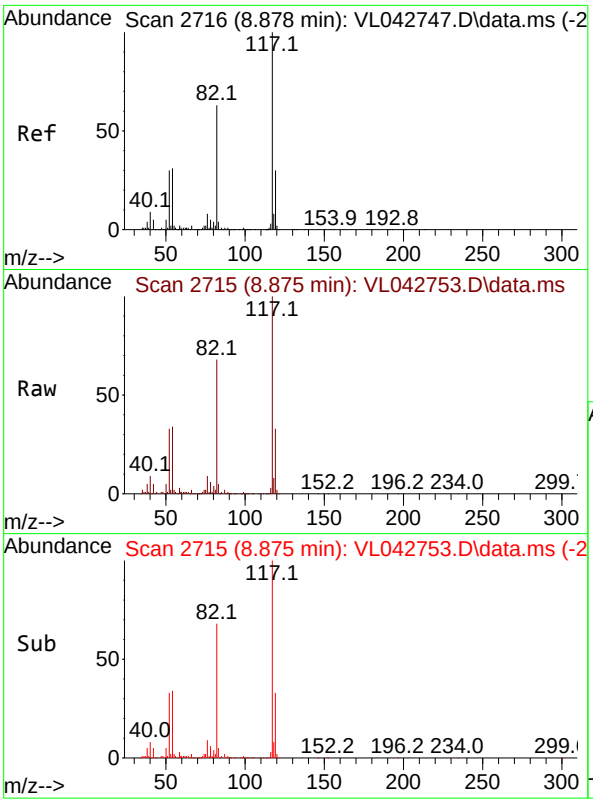


#54
1,2-Dibromoethane
Concen: 15.019 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:107 Resp: 338867

Ion	Ratio	Lower	Upper
107	100		
109	95.1	72.7	109.1



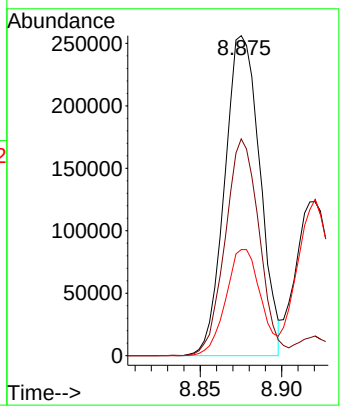


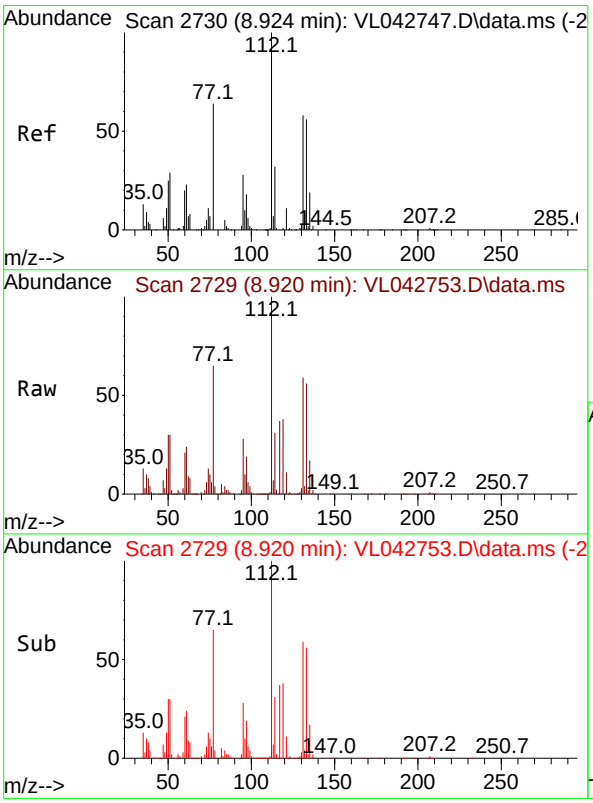
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:117 Resp: 385223

Ion	Ratio	Lower	Upper
117	100		
82	71.0	53.3	79.9
119	32.3	25.8	38.6

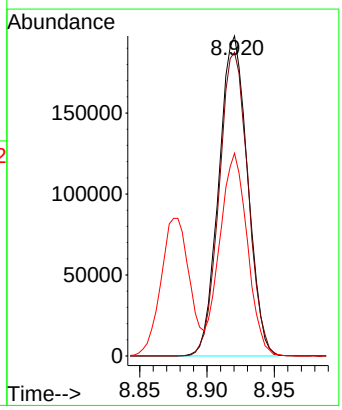


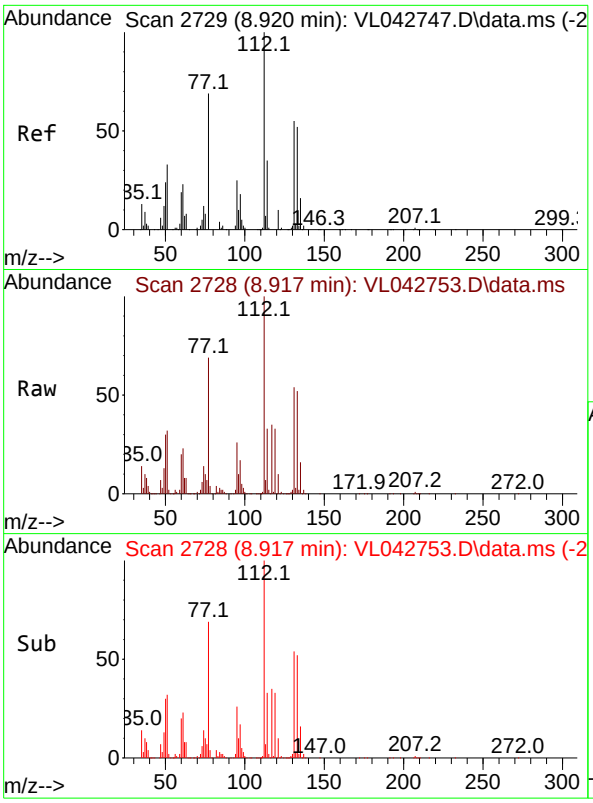


#56
1,1,1,2-Tetrachloroethane
Concen: 14.648 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:131 Resp: 293384

Ion	Ratio	Lower	Upper
131	100		
133	95.4	76.8	115.2
119	60.7	49.7	74.5



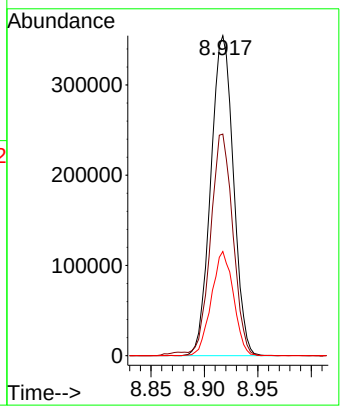


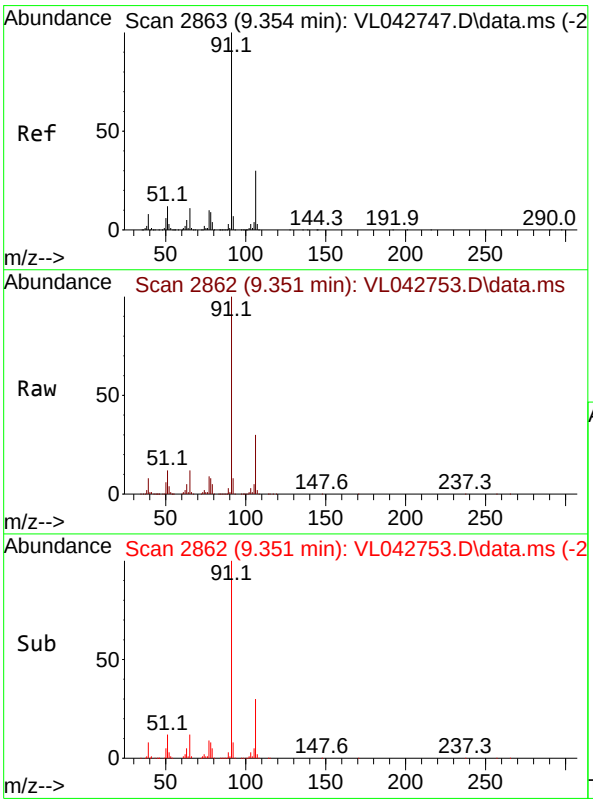
#57
Chlorobenzene
Concen: 14.025 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:112 Resp: 522894

Ion	Ratio	Lower	Upper
112	100		
77	69.2	56.4	84.6
114	32.6	31.2	38.2

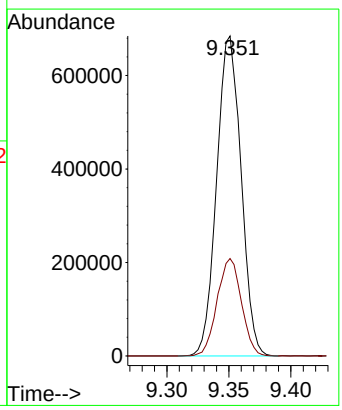


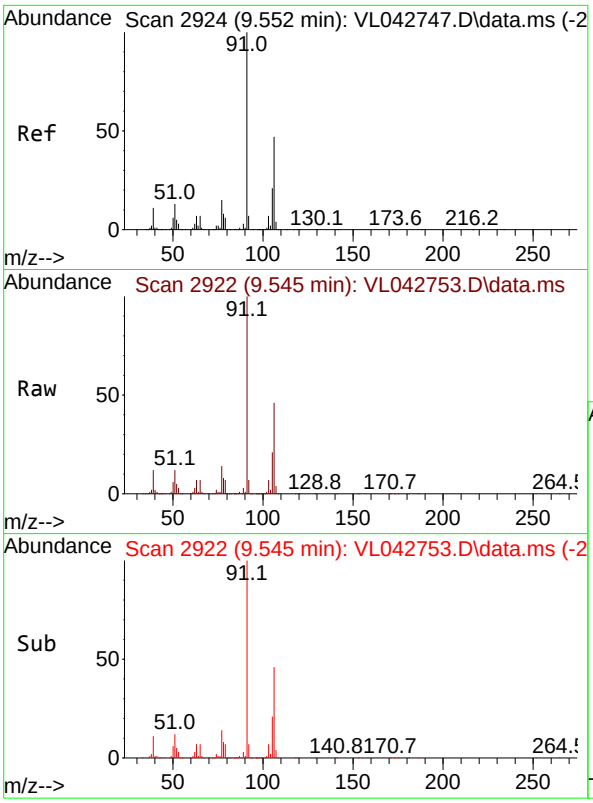


#58
Ethyl Benzene
Concen: 15.454 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 940159

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.8	35.6



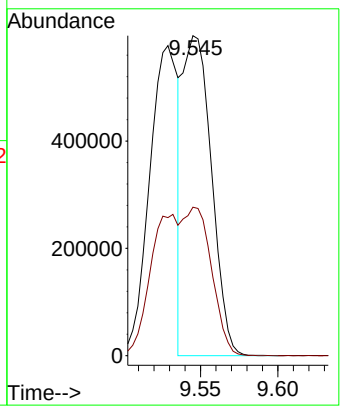


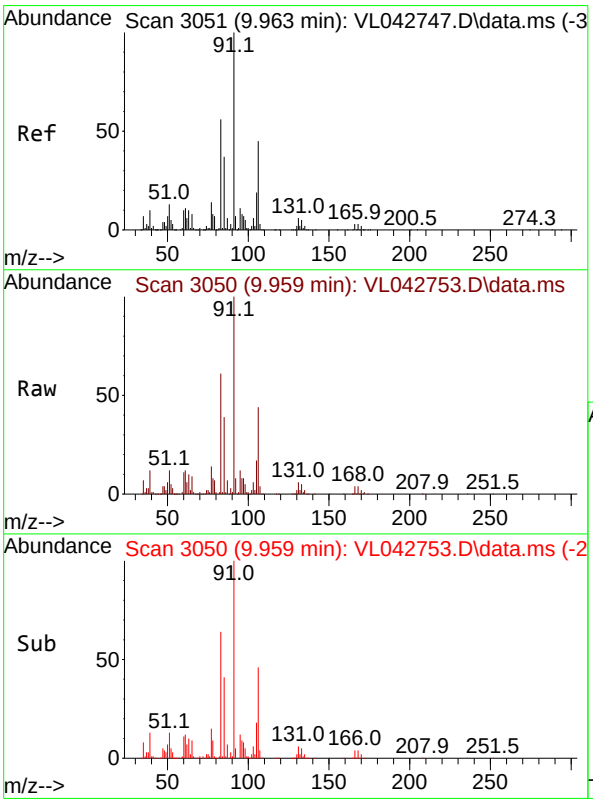
#59
m/p-Xylene
Concen: 15.756 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 766284

Ion	Ratio	Lower	Upper
91	100		
106	91.0	37.4	56.2#

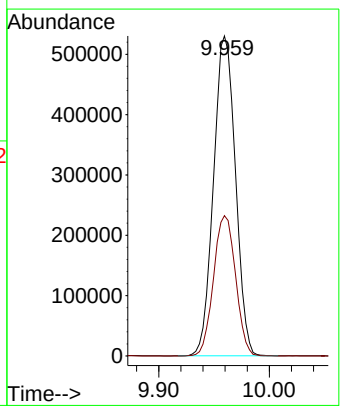


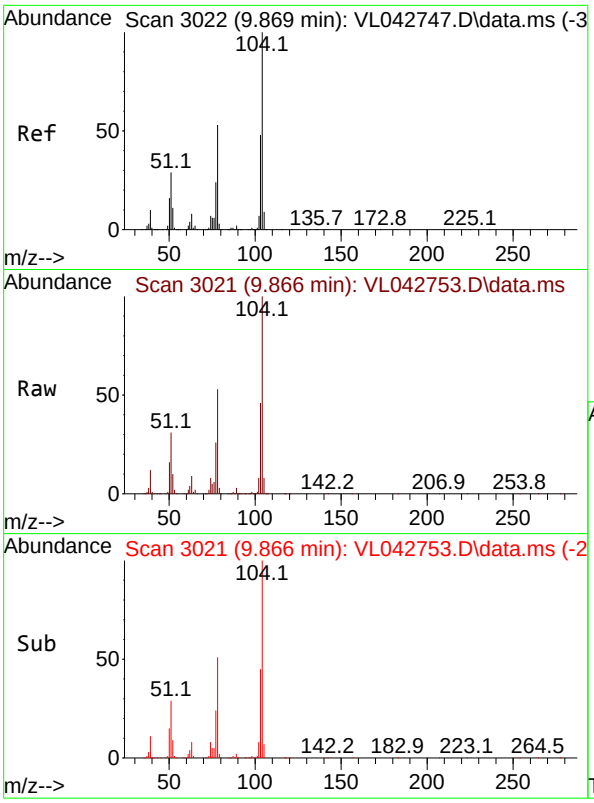


#60
o-Xylene
Concen: 15.030 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 730161

Ion	Ratio	Lower	Upper
91	100		
106	44.1	22.0	66.0



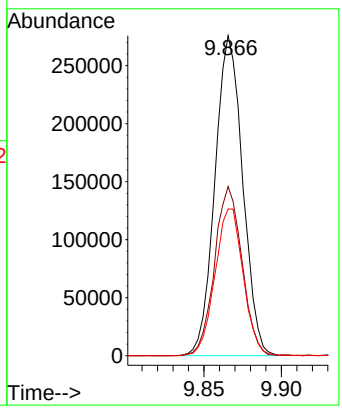


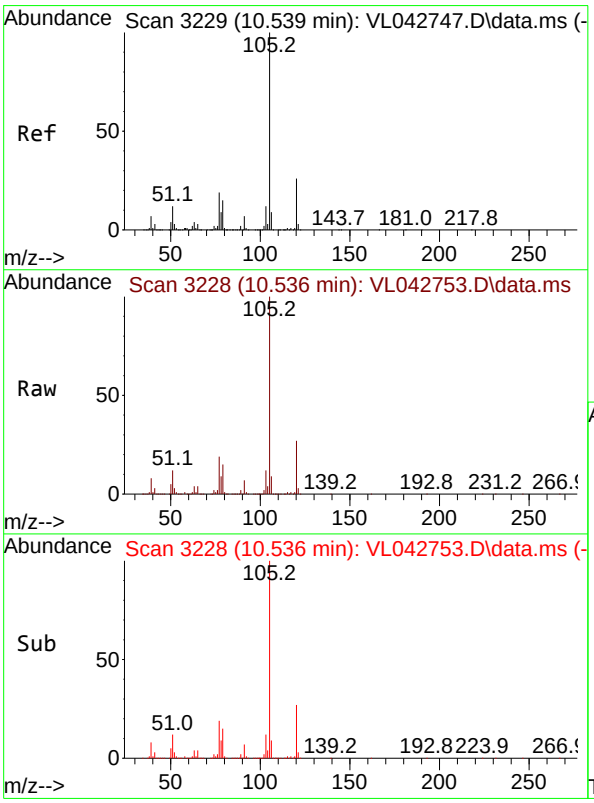
#61
Styrene
Concen: 16.805 ppbv
RT: 9.866 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:104 Resp: 343429

Ion	Ratio	Lower	Upper
104	100		
78	52.3	41.5	62.3
103	46.9	37.5	56.3

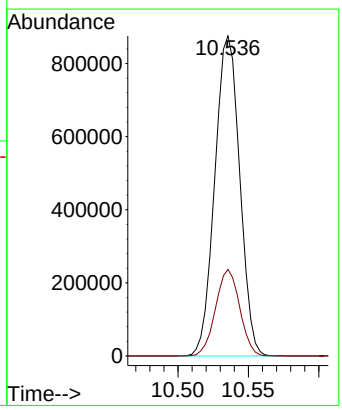


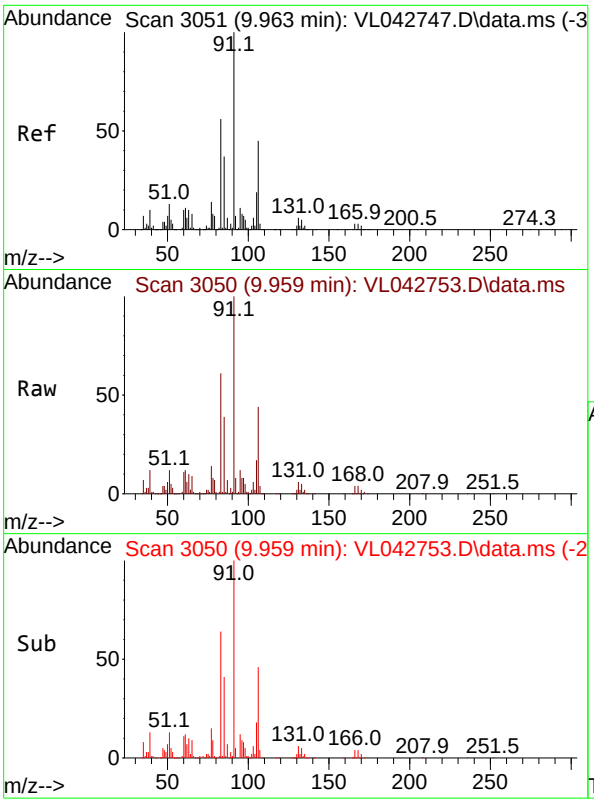


#62
Isopropylbenzene
Concen: 15.049 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:105 Resp: 1078393

Ion	Ratio	Lower	Upper
105	100		
120	26.2	20.5	30.7



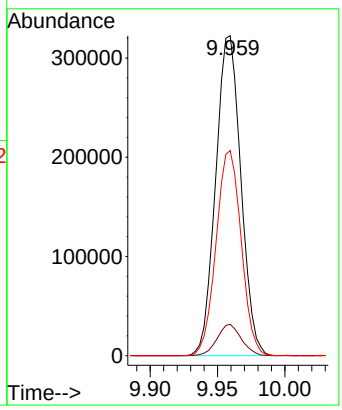


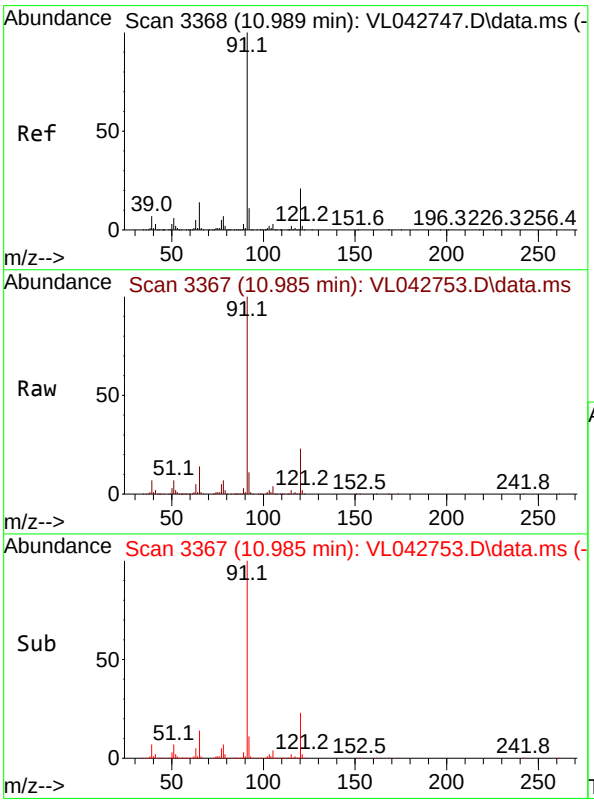
#63
1,1,2,2-Tetrachloroethane
Concen: 13.261 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 419734

Ion	Ratio	Lower	Upper
83	100		
131	9.5	5.0	15.0
85	63.8	32.6	97.7

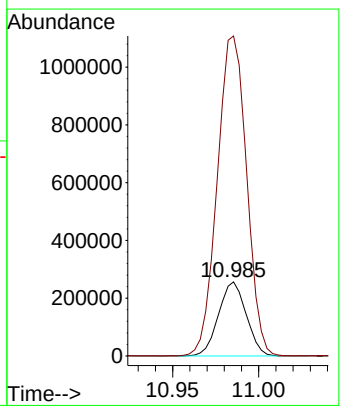


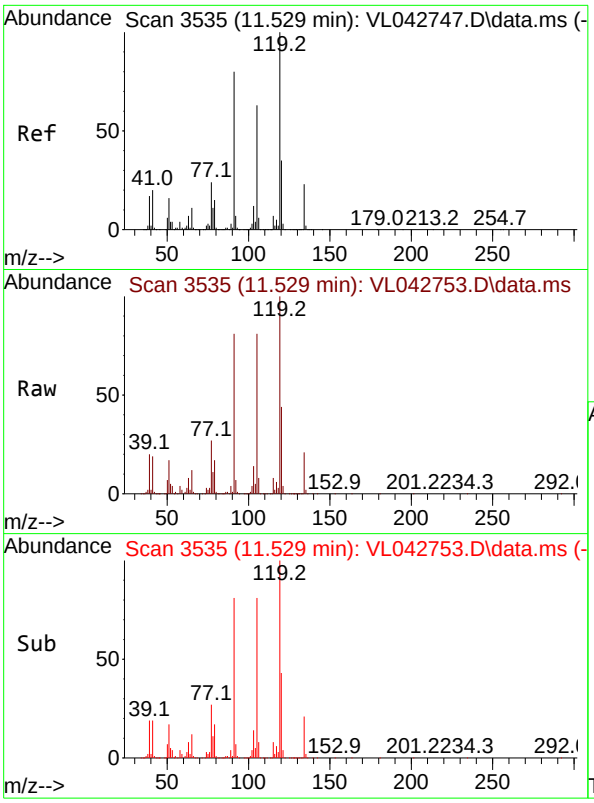


#64
n-propylbenzene
Concen: 15.348 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:120 Resp: 286724

Ion	Ratio	Lower	Upper
120	100		
91	458.1	372.7	559.1



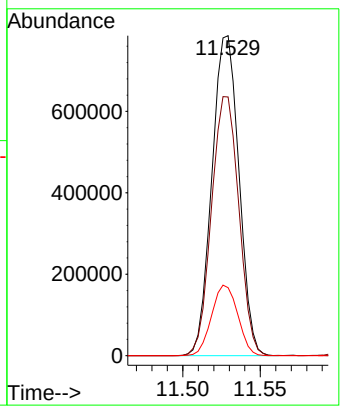


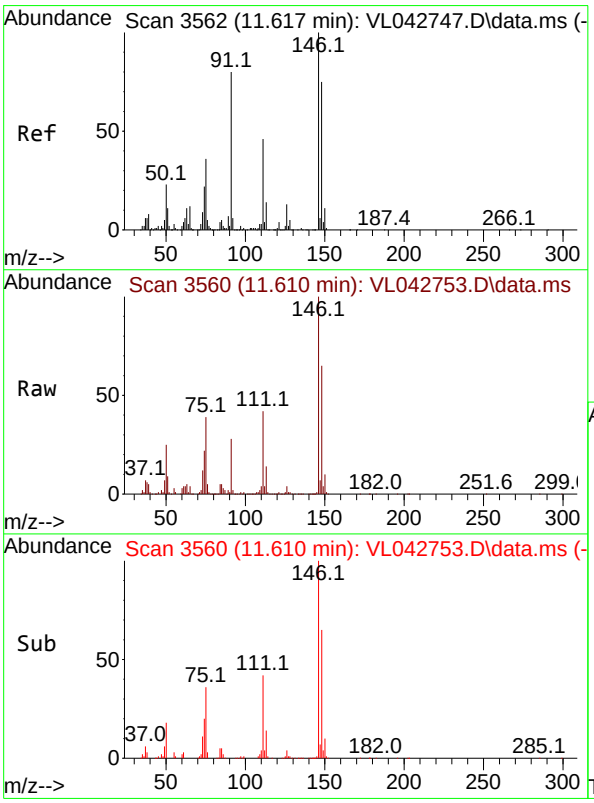
#65
tert-Butylbenzene
Concen: 14.995 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 954459

Ion	Ratio	Lower	Upper
119	100		
91	81.9	64.0	96.0
134	21.4	17.3	25.9

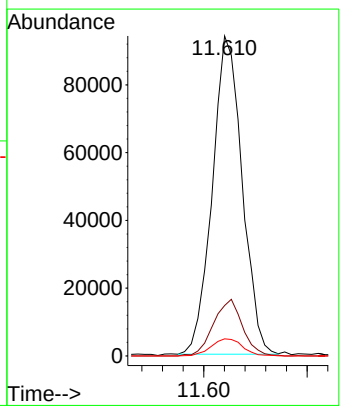


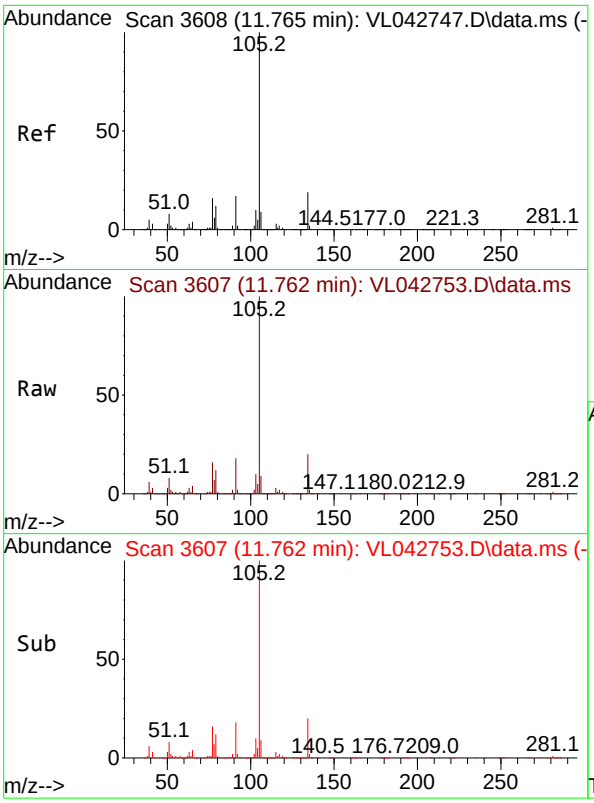


#66
Benzyl Chloride
Concen: 18.031 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 94218

Ion	Ratio	Lower	Upper
91	100		
126	17.3	14.4	21.6
128	5.7	5.2	7.8



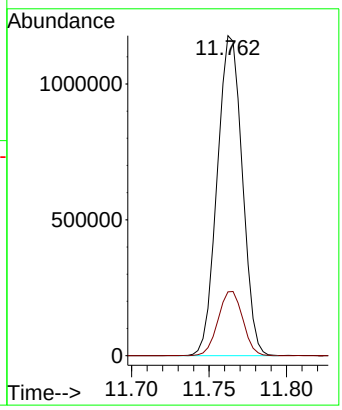


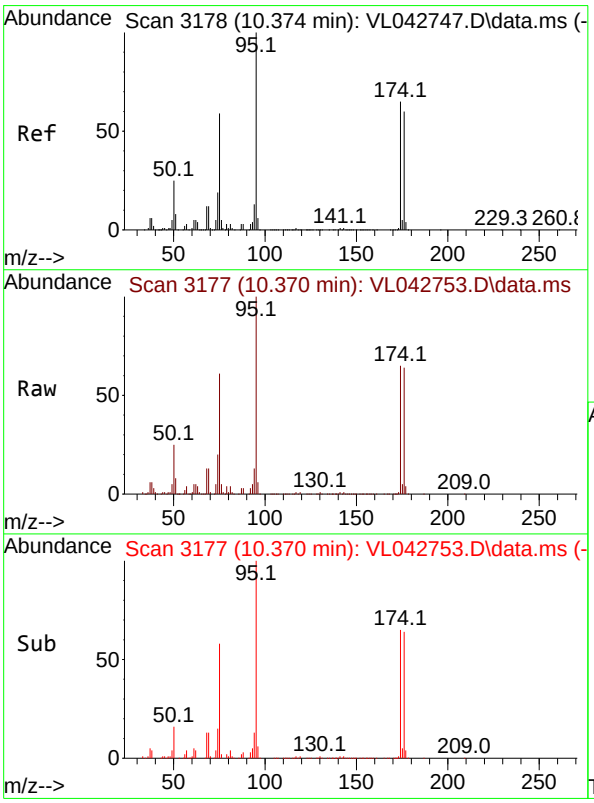
#67
sec-Butylbenzene
Concen: 14.662 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 1327393

Ion	Ratio	Lower	Upper
105	100		
134	19.8	15.5	23.3

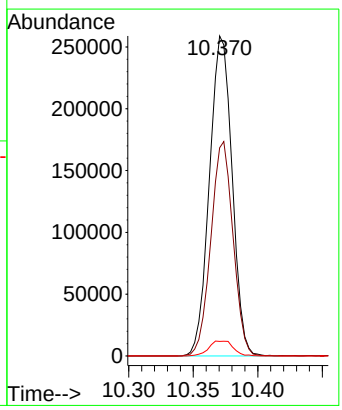


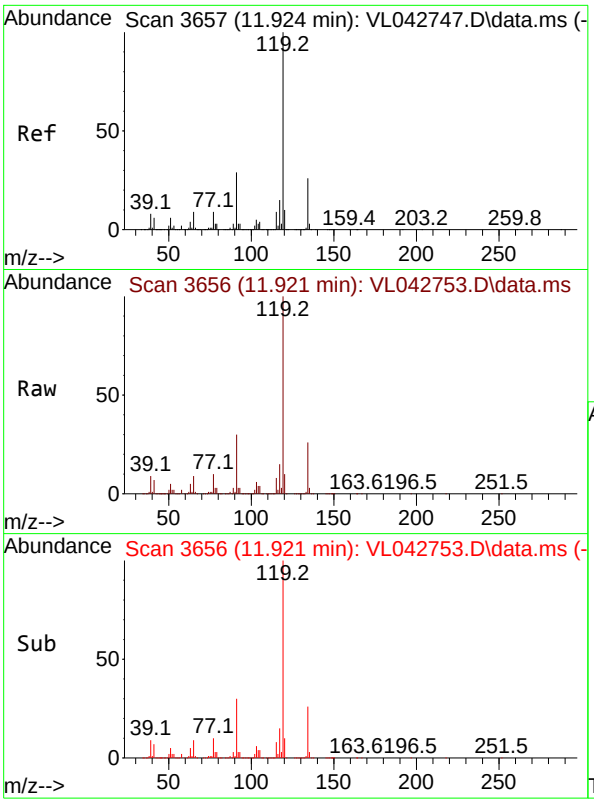


#68
1-Bromo-4-Fluorobenzene
Concen: 10.335 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 95 Resp: 315293

Ion	Ratio	Lower	Upper
95	100		
174	65.7	53.8	80.6
175	5.0	4.0	6.0



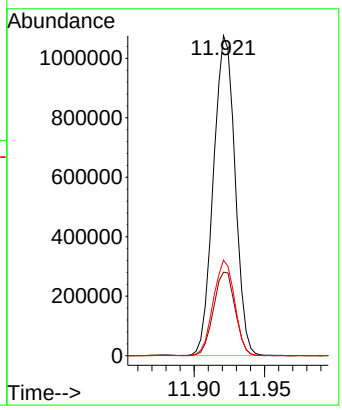


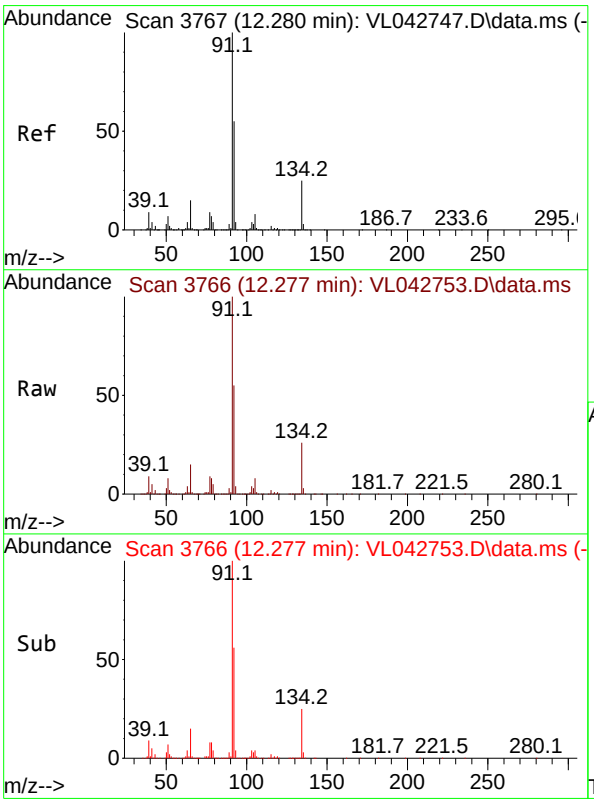
#69
p-Isopropyltoluene
Concen: 15.571 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 1149418

Ion	Ratio	Lower	Upper
119	100		
134	26.3	20.6	31.0
91	29.6	23.2	34.8

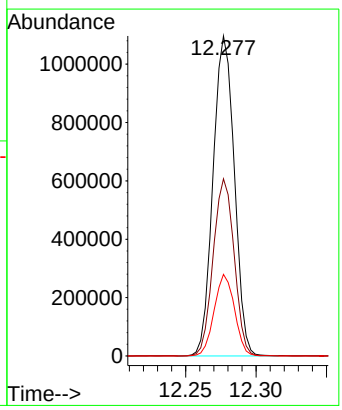


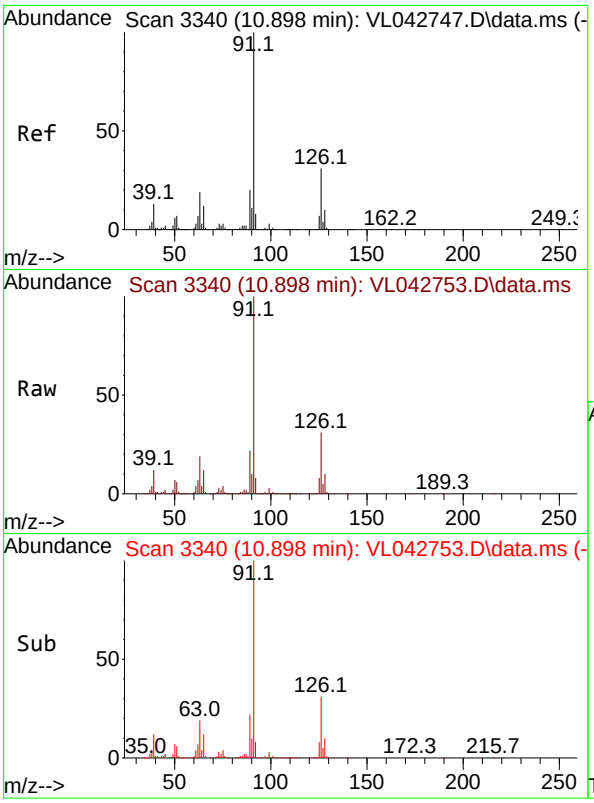


#70
n-Butylbenzene
Concen: 16.159 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 1152207

Ion	Ratio	Lower	Upper
91	100		
92	54.6	43.4	65.2
134	24.5	19.6	29.4



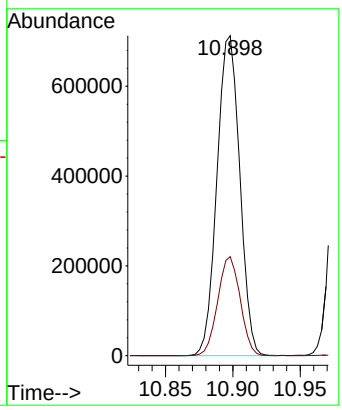


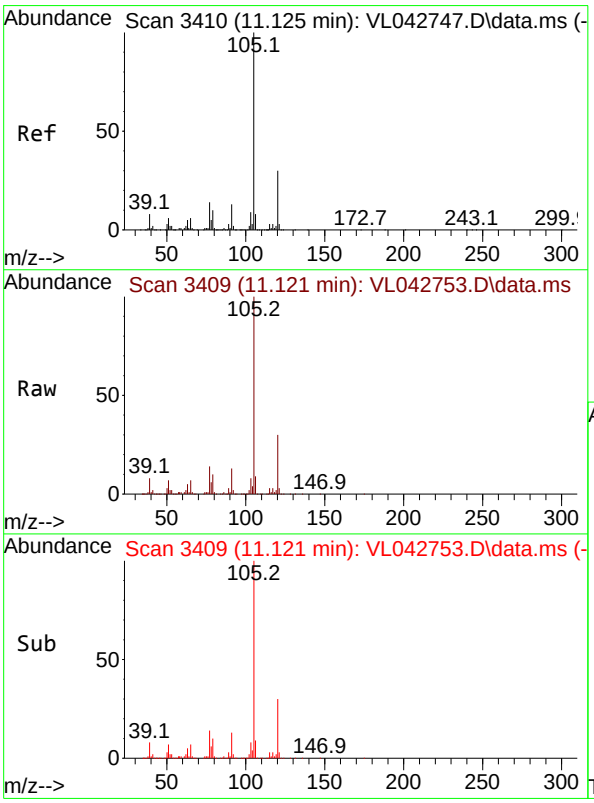
#71
2-Chlorotoluene
Concen: 15.257 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 838335

Ion	Ratio	Lower	Upper
91	100		
126	30.5	12.0	48.2

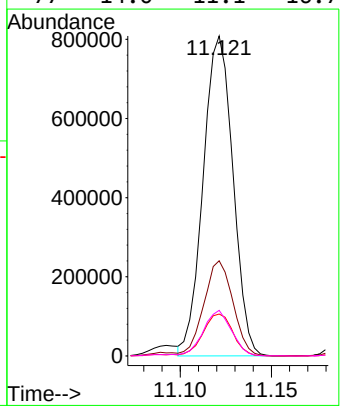


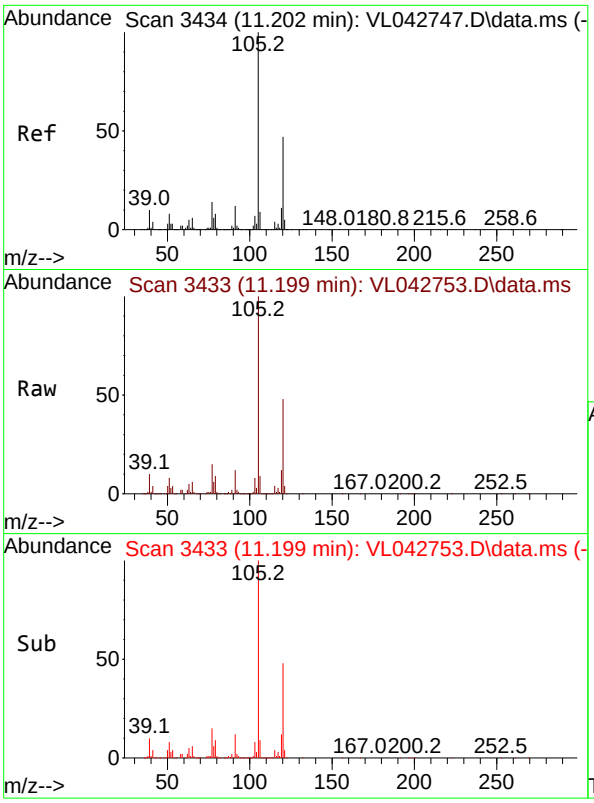


#72
4-Ethyltoluene
Concen: 15.830 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:105 Resp: 918453

Ion	Ratio	Lower	Upper
105	100		
120	30.1	24.4	36.6
91	13.5	10.6	15.8
77	14.0	11.1	16.7



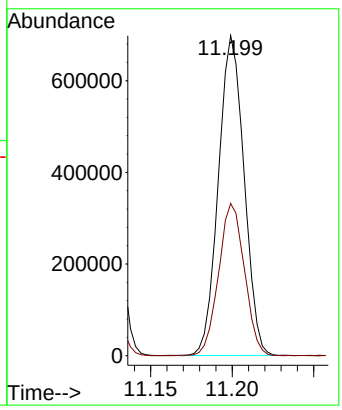


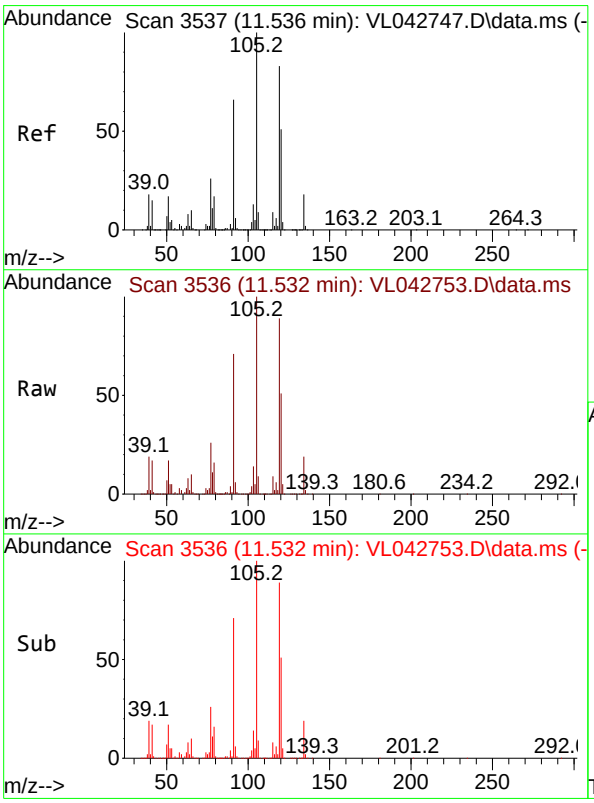
#73
1,3,5-Trimethylbenzene
Concen: 15.977 ppbv
RT: 11.199 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 763212

Ion	Ratio	Lower	Upper
105	100		
120	47.5	37.8	56.8

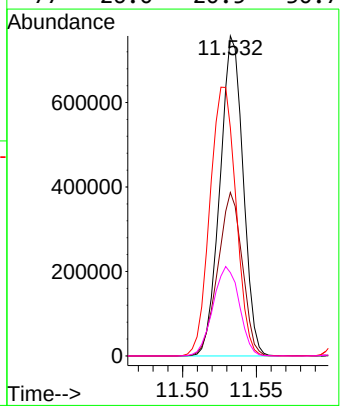


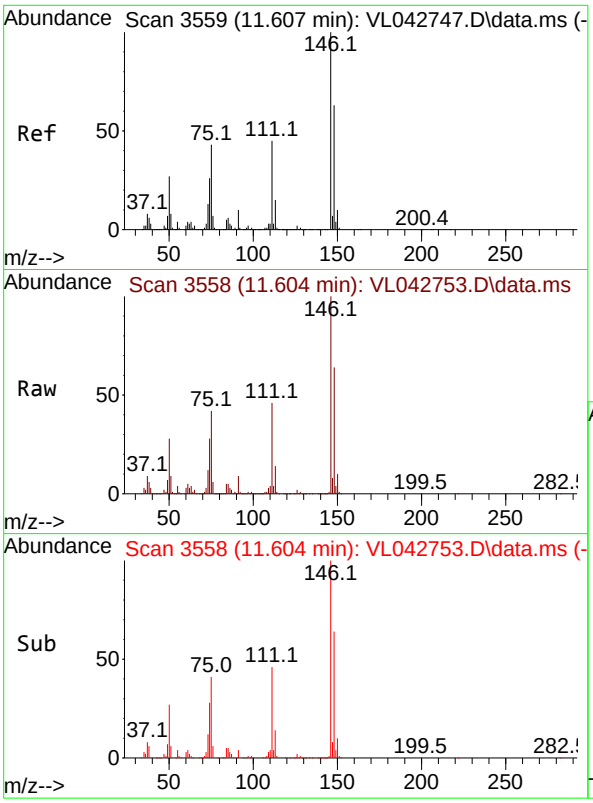


#74
1,2,4-Trimethylbenzene
Concen: 15.873 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:105 Resp: 827222

Ion	Ratio	Lower	Upper
105	100		
120	51.1	40.8	61.2
91	71.2	53.0	79.4
77	26.0	20.5	30.7



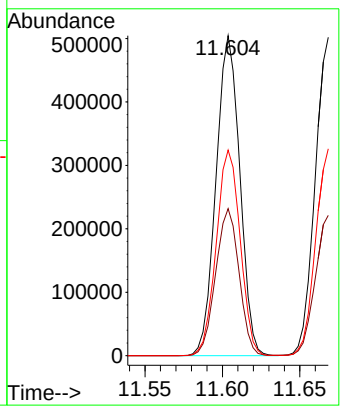


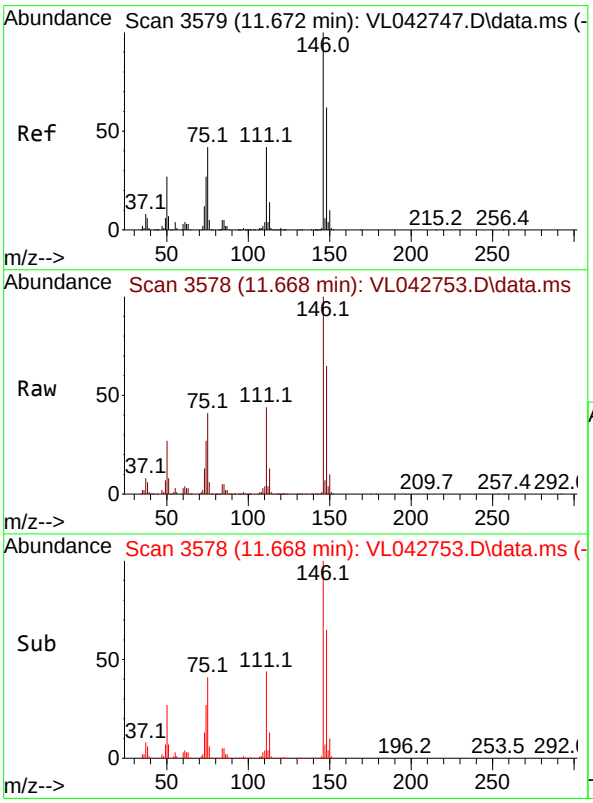
#75
1,3-Dichlorobenzene
Concen: 14.761 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:146 Resp: 539284

Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.7	68.0
148	64.6	31.9	95.5

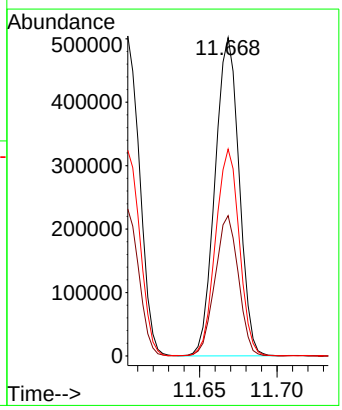


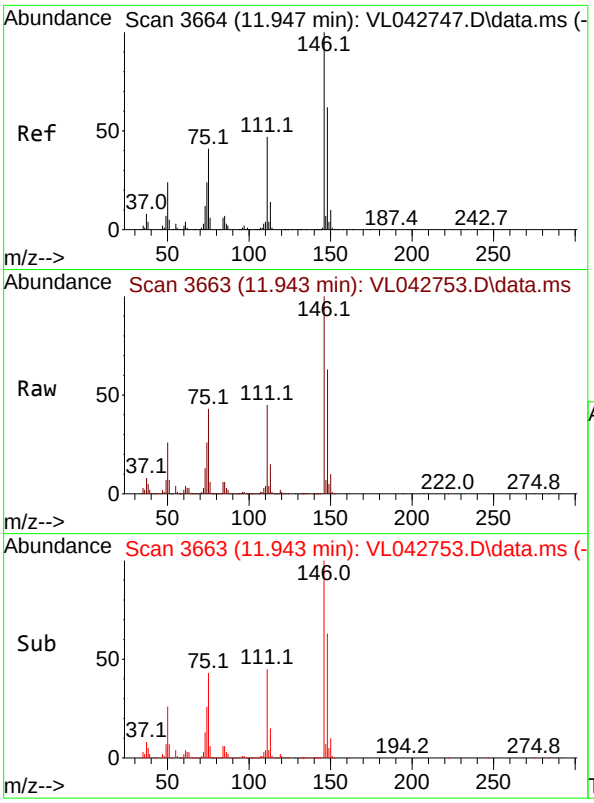


#76
1,4-Dichlorobenzene
Concen: 15.188 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:146 Resp: 542998

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.4	64.2
148	64.3	32.1	96.3



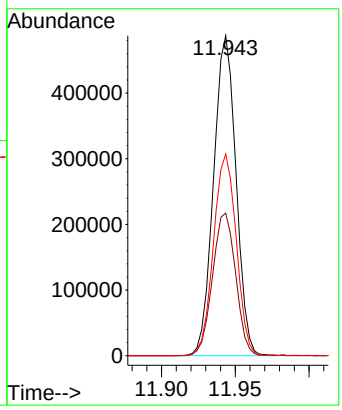


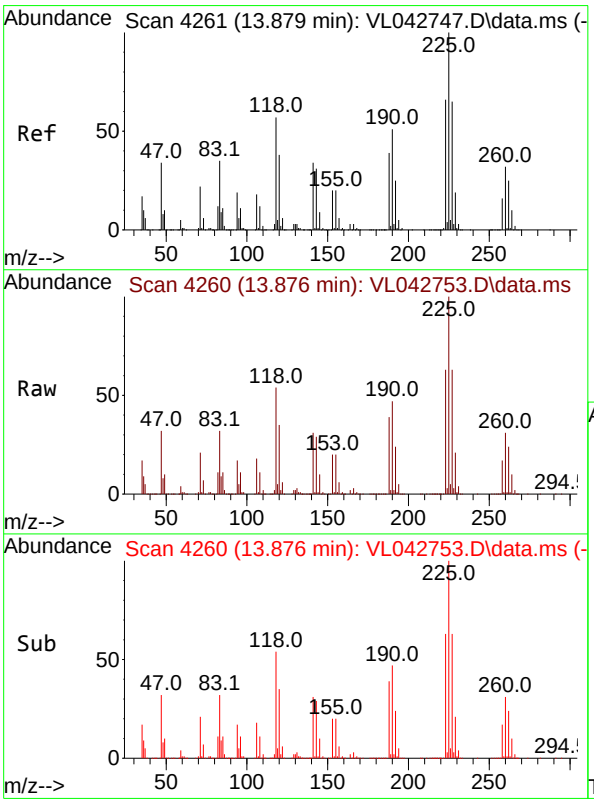
#77
1,2-Dichlorobenzene
Concen: 14.390 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:146 Resp: 516714

Ion	Ratio	Lower	Upper
146	100		
111	45.9	23.7	71.1
148	64.0	32.6	97.7

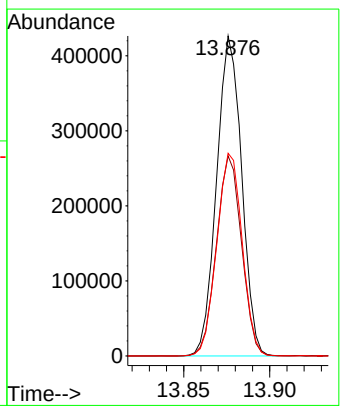


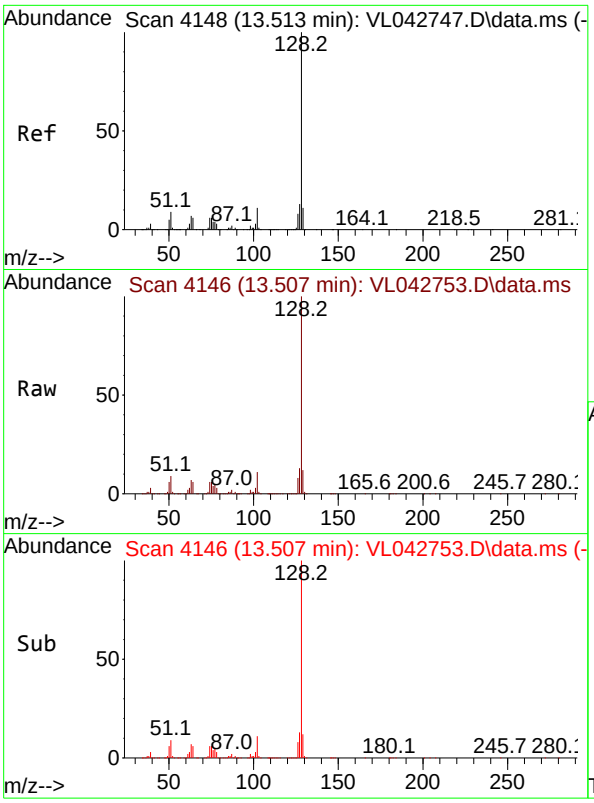


#78
Hexachloro-1,3-Butadiene
Concen: 13.296 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:225 Resp: 432138

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.7	76.1
227	64.3	50.5	75.7



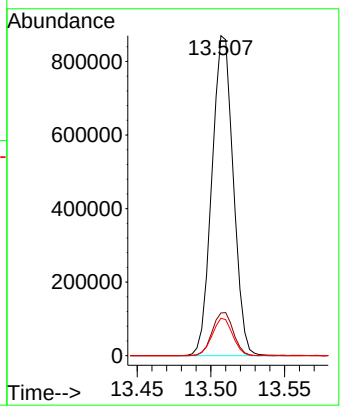


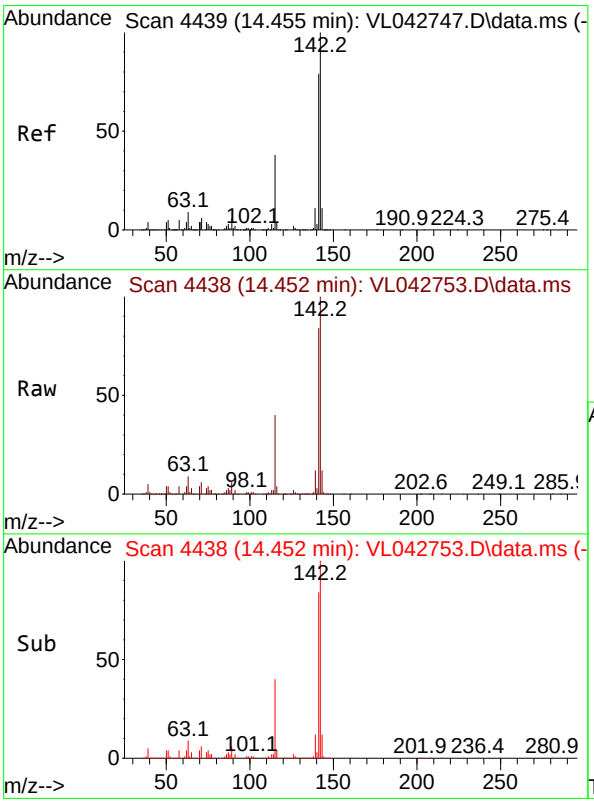
#79
Naphthalene
Concen: 15.265 ppbv
RT: 13.507 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:128 Resp: 876734

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.5	15.7
129	11.7	8.6	13.0

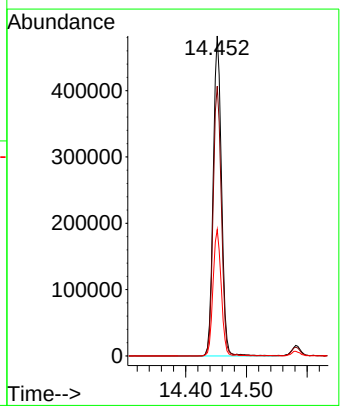


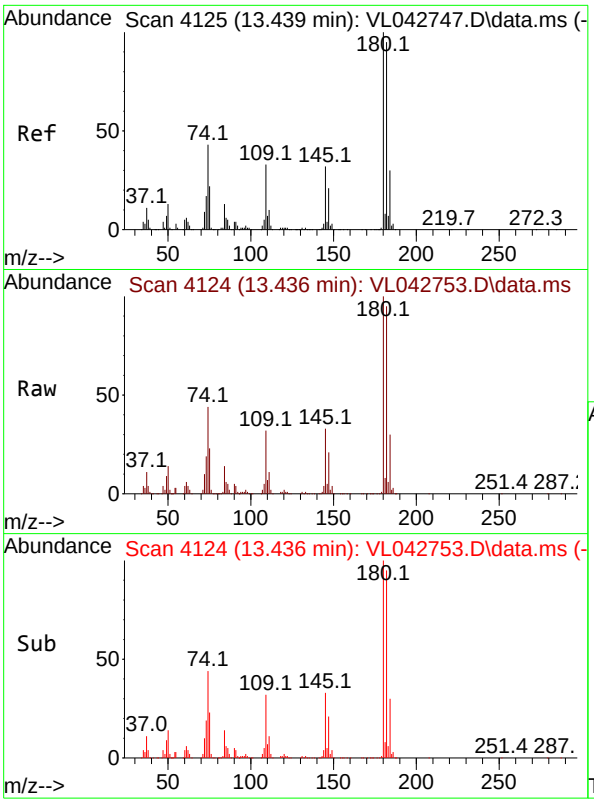


#80
Naphthalene,2-methyl-
Concen: 15.438 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:142 Resp: 456529

Ion	Ratio	Lower	Upper
142	100		
141	84.4	65.8	98.8
115	39.2	31.2	46.8



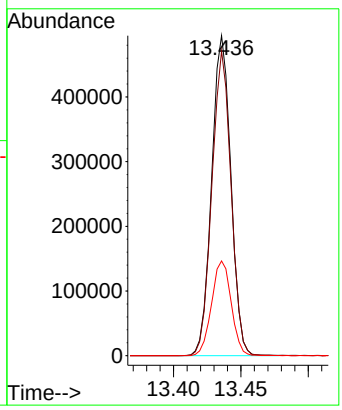


#81
1,2,4-Trichlorobenzene
Concen: 15.200 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:180 Resp: 490575

Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.2	114.2
184	30.3	24.8	37.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042754.D
Acq On : 23 Jul 2025 13:00
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Jul 24 05:01:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	152358	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.953	114	438604	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	393042	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	298283	9.583	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	2439	0.121	ppbv	90
3) Chlorodifluoromethane	1.609	51	1060	0.040	ppbv	99
4) Chloromethane	1.532	50	1066	0.131	ppbv	99
5) Vinyl Chloride	1.583	62	837	0.104	ppbv #	60
6) Bromomethane	1.667	94	438	0.141	ppbv	82
7) Chloroethane	1.706	64	526	0.169	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	1725	0.104	ppbv	97
9) Propene	1.486	41	1118	0.117	ppbv #	68
10) Heptane	4.975	43	817	0.032	ppbv #	27
11) Trichlorofluoromethane	1.878	101	2050	0.099	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	1772	0.112	ppbv	96
13) Ethanol	1.891	45	1804	1.545	ppbv	74
14) Bromoethene	1.781	108	778	0.139	ppbv #	54
15) Acetone	1.836	43	3734	0.177	ppbv	95
16) 1,3-Butadiene	1.609	39	976	0.109	ppbv #	41
17) tert-Butyl alcohol	2.040	59	2194	0.116	ppbv #	79
18) 1,1-Dichloroethene	2.036	96	899	0.126	ppbv #	56
19) Isopropyl Alcohol	1.891	45	1804	0.161	ppbv #	59
20) Methylene Chloride	2.062	84	2080	0.314	ppbv #	77
21) Allyl Chloride	2.098	41	1747	0.135	ppbv #	54
22) trans-1,2-Dichloroethene	2.337	96	1116	0.146	ppbv #	63
23) Vinyl Acetate	2.457	43	3460	0.136	ppbv #	61
24) 1,1-Dichloroethane	2.409	63	1620	0.103	ppbv #	90
25) Ethyl Acetate	2.833	43	1813	0.039	ppbv #	67
26) Hexane	2.823	57	1982	0.097	ppbv #	76
27) Carbon Disulfide	2.146	76	1789	0.102	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	1378	0.143	ppbv #	60
29) Chloroform	2.412	83	101	0.003	ppbv	97
30) Cyclohexane	3.852	84	516	0.030	ppbv #	1
31) cis-1,2-Dichloroethene	2.716	61	2152	0.103	ppbv #	87
32) 1,1,1-Trichloroethane	3.363	97	3550	0.108	ppbv	96
34) 2-Butanone	2.564	43	4086	0.132	ppbv	95
35) Carbon Tetrachloride	3.768	117	796	0.024	ppbv	96
36) Benzene	3.658	78	1246	0.030	ppbv	96
37) 1,2-Dichloroethane	3.218	62	1114	0.044	ppbv #	57
38) Trichloroethene	4.538	130	333	0.017	ppbv #	29
39) 1,2-Dichloropropane	3.956	63	113176	7.376	ppbv #	21
40) 1,4-Dioxane	4.603	88	294	0.041	ppbv #	39
41) Tetrahydrofuran	3.050	42	83	0.005	ppbv #	38
42) Bromodichloromethane	4.483	83	1563	0.048	ppbv #	84
43) Methyl Methacrylate	4.865	69	298	0.020	ppbv #	1
44) 2,2,4-Trimethylpentane	4.639	57	1109	0.016	ppbv #	1
45) t-1,3-Dichloropropene	6.412	75	912	0.055	ppbv	97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042754.D
Acq On : 23 Jul 2025 13:00
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Jul 24 05:01:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

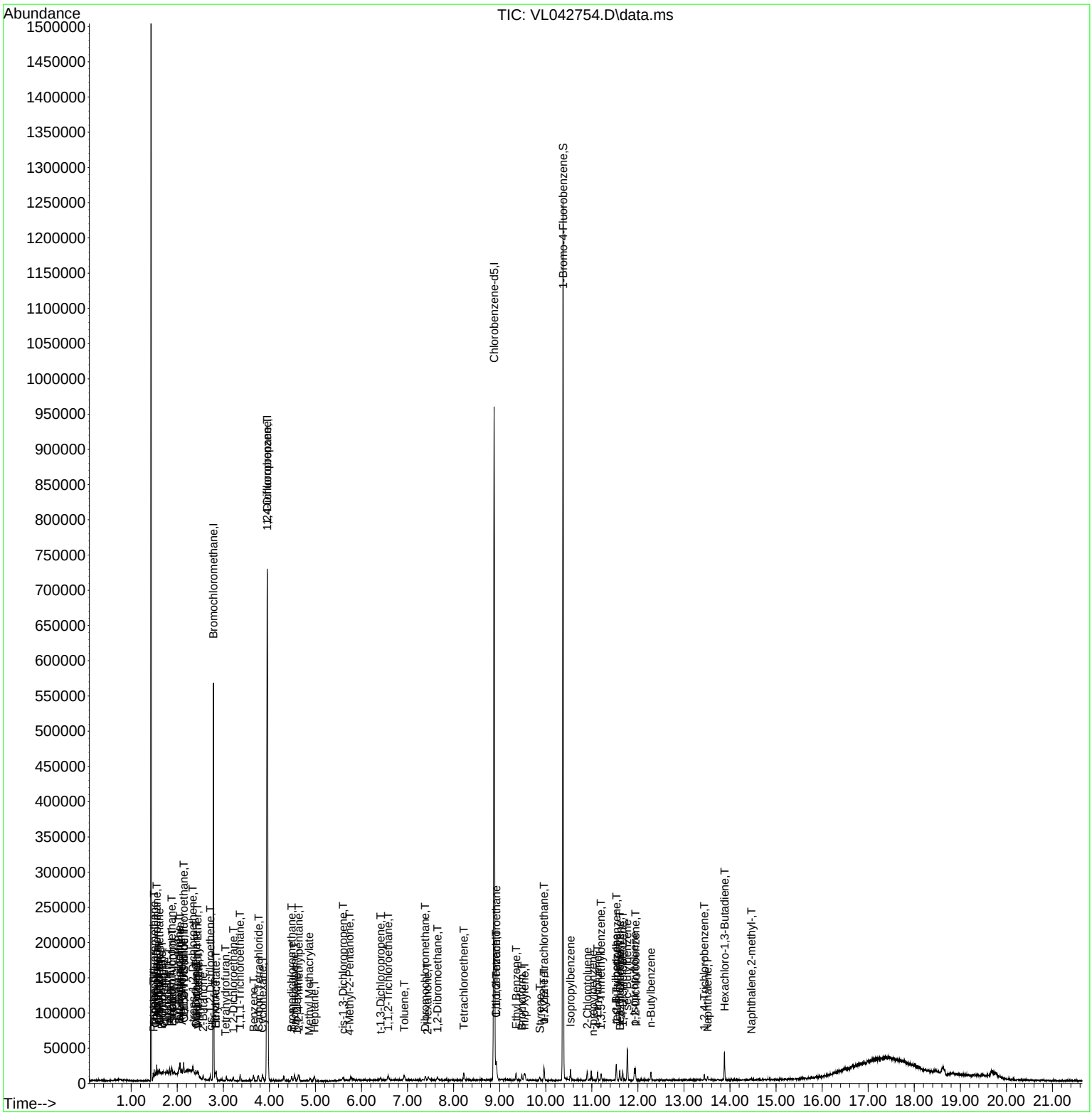
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	1232	0.059	ppbv	#	42
47) 1,1,2-Trichloroethane	6.577	97	787	0.048	ppbv	#	55
48) Dibromochloromethane	7.380	129	1591	0.061	ppbv	#	21
49) Bromoform	9.477	173	1201	0.053	ppbv	#	29
50) 4-Methyl-2-Pentanone	5.739	43	126	0.003	ppbv	#	40
51) 2-Hexanone	7.435	43	436	0.014	ppbv	#	30
52) Tetrachloroethene	8.222	164	981	0.057	ppbv	#	62
53) Toluene	6.930	91	1198	0.027	ppbv	#	1
54) 1,2-Dibromoethane	7.649	107	1080	0.047	ppbv	#	52
56) 1,1,1,2-Tetrachloroethane	8.927	131	922	0.045	ppbv	#	1
57) Chlorobenzene	8.921	112	4337	0.114	ppbv	#	88
58) Ethyl Benzene	9.358	91	2183	0.035	ppbv		100
59) m/p-Xylene	9.539	91	5405	0.109	ppbv	#	60
60) o-Xylene	9.963	91	2101	0.042	ppbv	#	53
61) Styrene	9.872	104	807	0.039	ppbv	#	29
62) Isopropylbenzene	10.536	105	5985	0.082	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.963	83	1989	0.062	ppbv	#	49
64) n-propylbenzene	11.025	120	48	0.003	ppbv		74
65) tert-Butylbenzene	11.523	119	4707	0.072	ppbv		91
66) Benzyl Chloride	11.614	91	204	0.038	ppbv	#	78
67) sec-Butylbenzene	11.766	105	6449	0.070	ppbv	#	90
69) p-Isopropyltoluene	11.924	119	5342	0.071	ppbv		93
70) n-Butylbenzene	12.284	91	4198	0.058	ppbv		94
71) 2-Chlorotoluene	10.905	91	4180	0.075	ppbv		77
72) 4-Ethyltoluene	11.125	105	3597	0.061	ppbv	#	82
73) 1,3,5-Trimethylbenzene	11.199	105	3603	0.074	ppbv	#	70
74) 1,2,4-Trimethylbenzene	11.536	105	3826	0.072	ppbv	#	90
75) 1,3-Dichlorobenzene	11.607	146	2417	0.065	ppbv	#	67
76) 1,4-Dichlorobenzene	11.672	146	3265	0.090	ppbv		95
77) 1,2-Dichlorobenzene	11.947	146	3354	0.092	ppbv		96
78) Hexachloro-1,3-Butadiene	13.883	225	4077	0.123	ppbv		97
79) Naphthalene	13.514	128	2509	0.475	ppbv	#	96
80) Naphthalene,2-methyl-	14.468	142	676	1.147	ppbv	#	70
81) 1,2,4-Trichlorobenzene	13.442	180	1396	0.475	ppbv	#	78

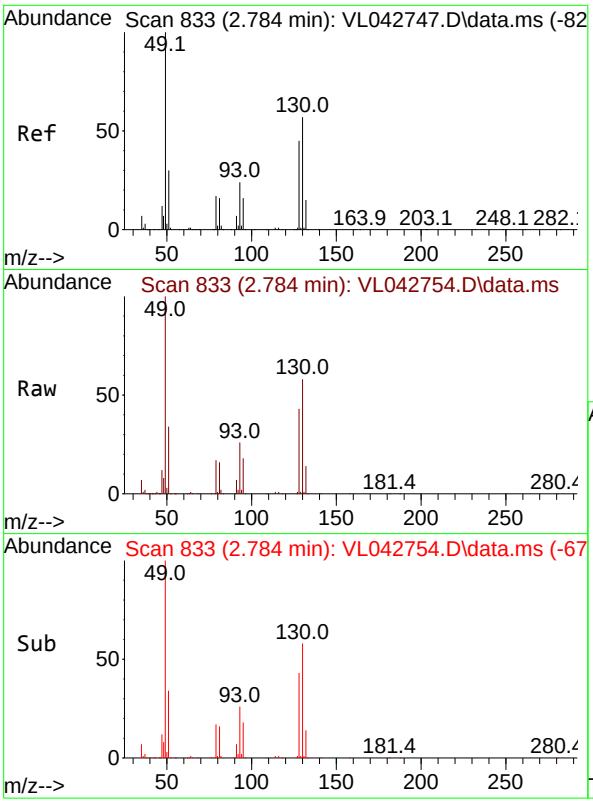
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042754.D
Acq On : 23 Jul 2025 13:00
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Jul 24 05:01:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration



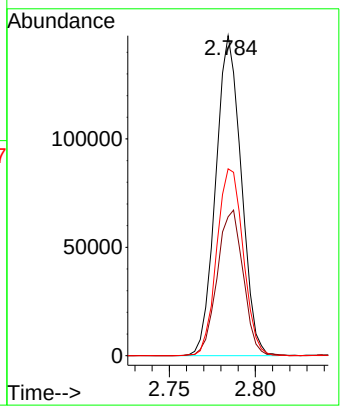


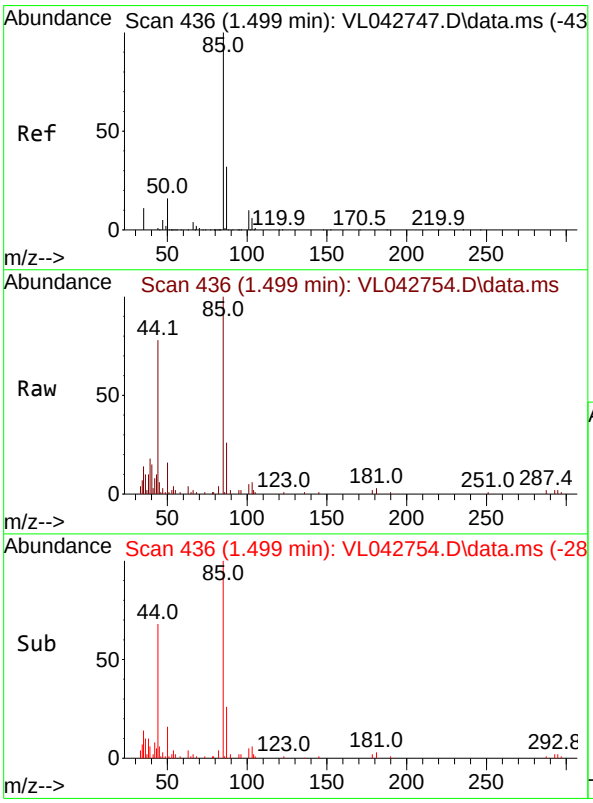
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 49 Resp: 152358

Ion	Ratio	Lower	Upper
49	100		
128	46.3	23.6	71.0
130	60.6	30.3	90.8

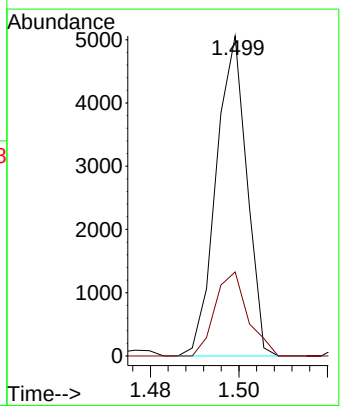


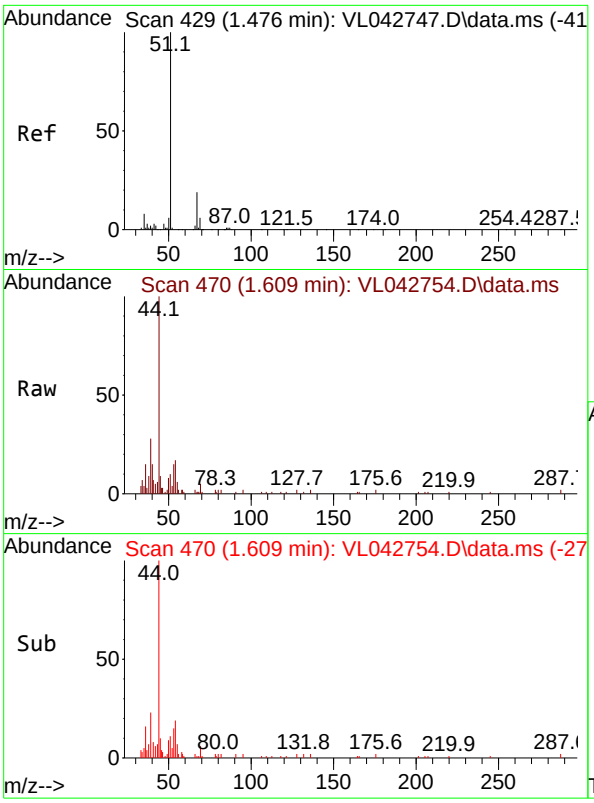


#2
Dichlorodifluoromethane
Concen: 0.121 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 85 Resp: 2439

Ion	Ratio	Lower	Upper
85	100		
87	26.3	25.4	38.2



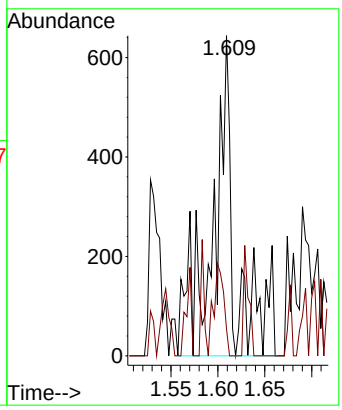


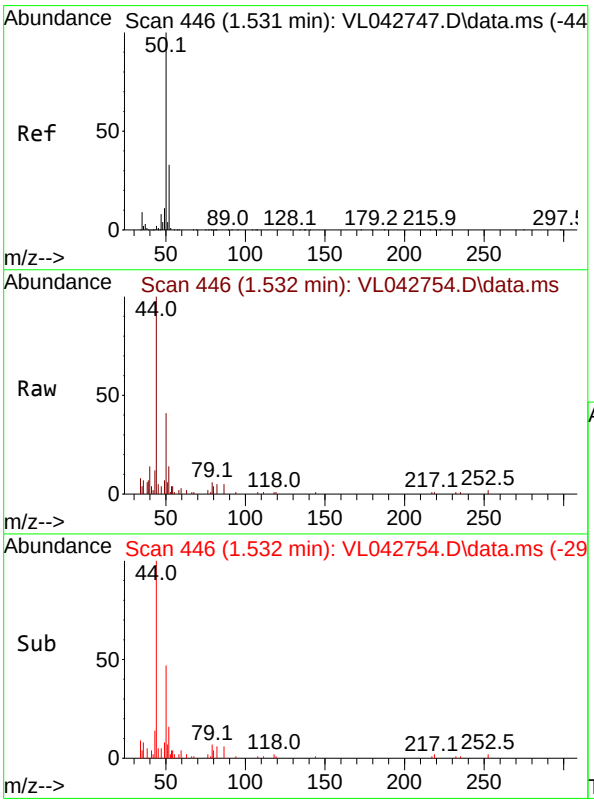
#3
Chlorodifluoromethane
Concen: 0.040 ppbv
RT: 1.609 min Scan# 4
Delta R.T. 0.133 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 51 Resp: 1060

Ion	Ratio	Lower	Upper
51	100		
67	18.5	15.0	22.6

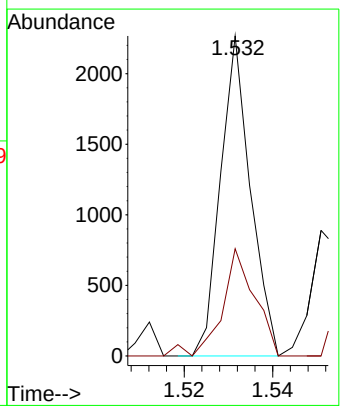


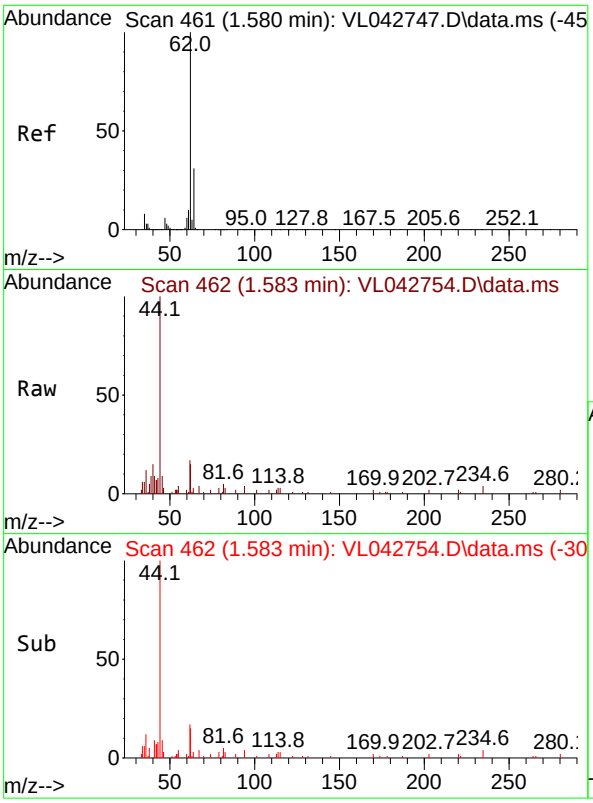


#4
Chloromethane
Concen: 0.131 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 50 Resp: 1066

Ion	Ratio	Lower	Upper
50	100		
52	34.0	26.6	40.0



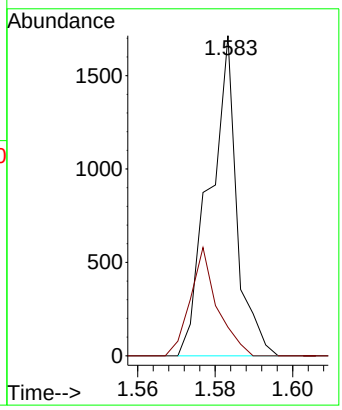


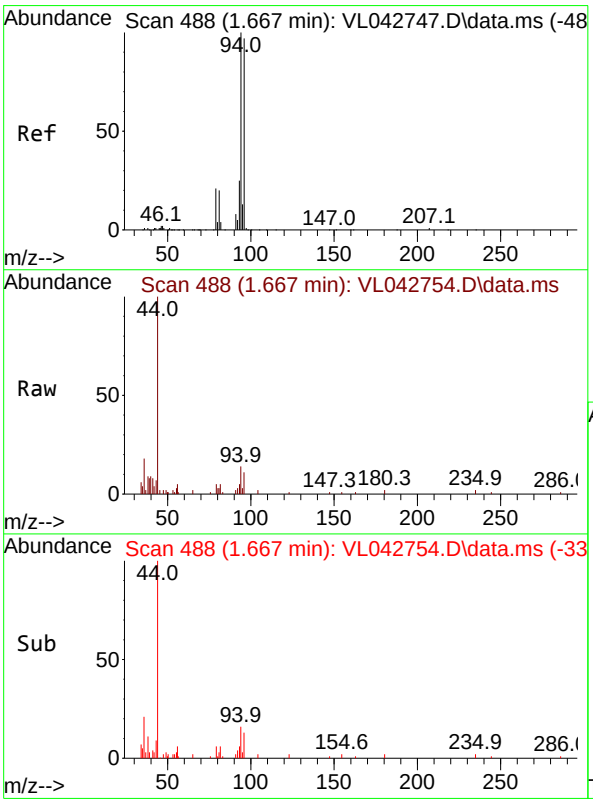
#5
Vinyl Chloride
Concen: 0.104 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 837

Ion	Ratio	Lower	Upper
62	100		
64	8.9	24.5	36.7#

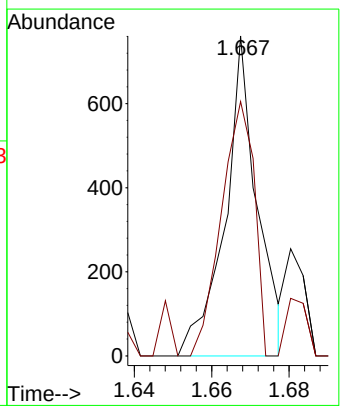


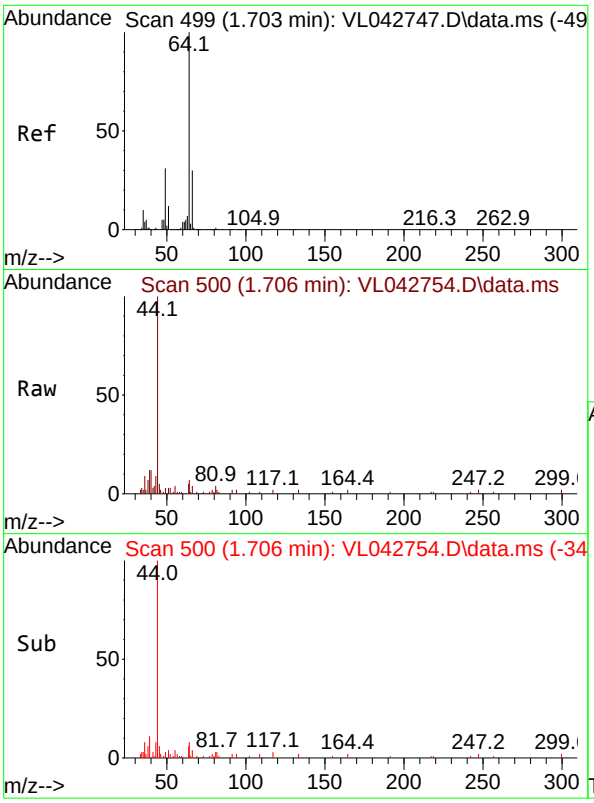


#6
Bromomethane
Concen: 0.141 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 94 Resp: 438

Ion	Ratio	Lower	Upper
94	100		
96	79.5	77.6	116.4



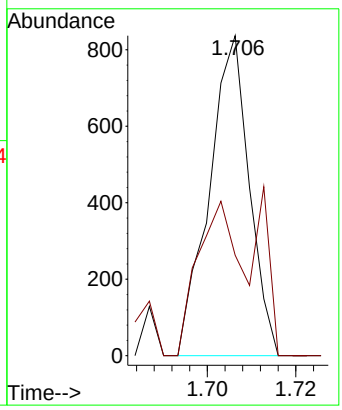


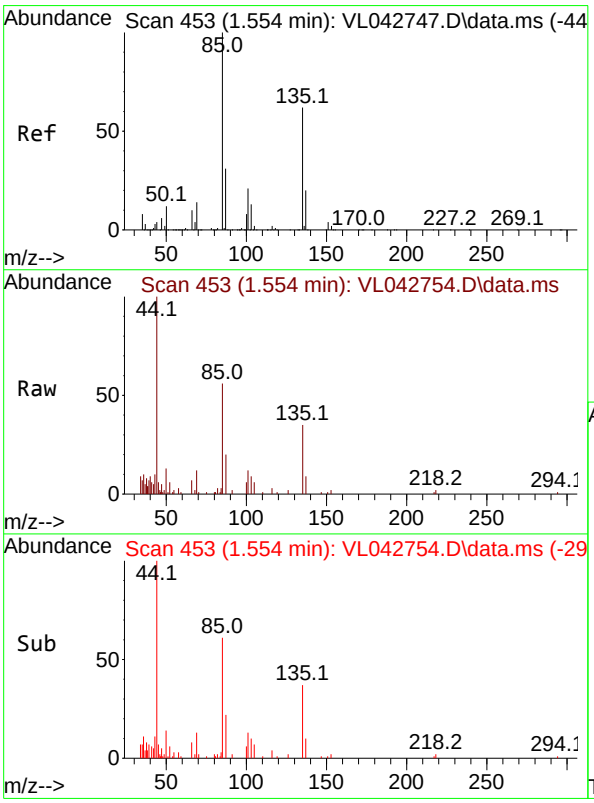
#7
Chloroethane
Concen: 0.169 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 64 Resp: 526

Ion	Ratio	Lower	Upper
64	100		
66	31.4	24.1	36.1

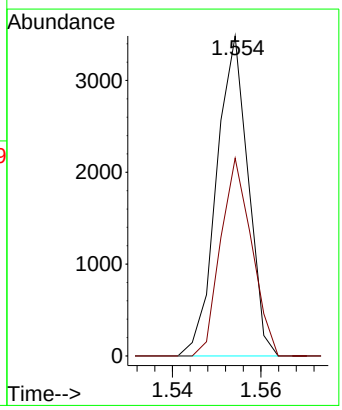


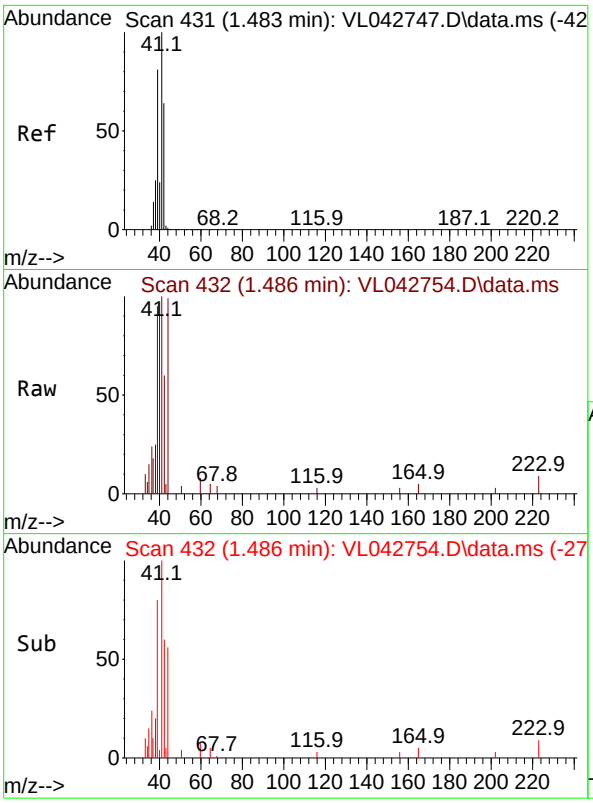


#8
Dichlorotetrafluoroethane
Concen: 0.104 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 85 Resp: 1725

Ion	Ratio	Lower	Upper
85	100		
135	61.0	50.6	76.0



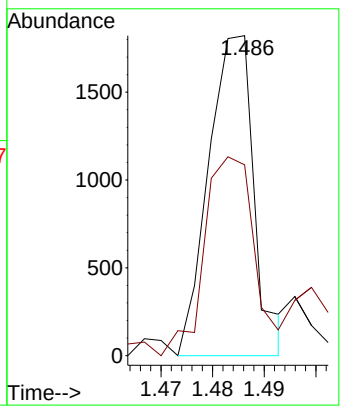


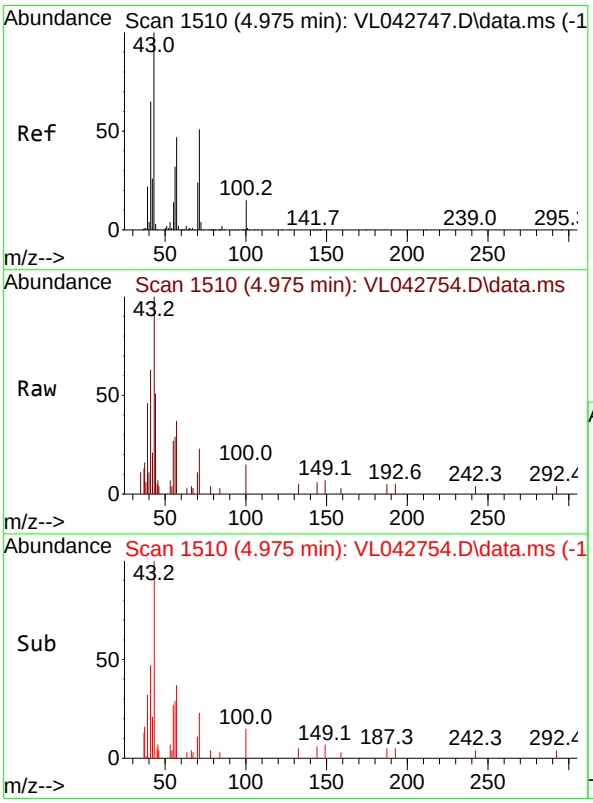
#9
Propene
Concen: 0.117 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 41 Resp: 1118

Ion	Ratio	Lower	Upper
41	100		
42	92.3	53.2	79.8#

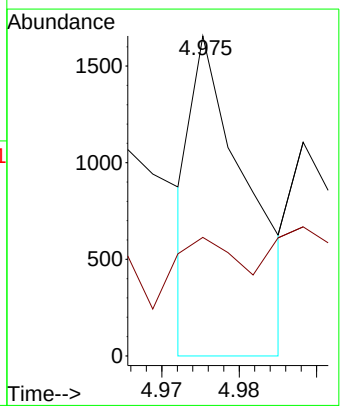


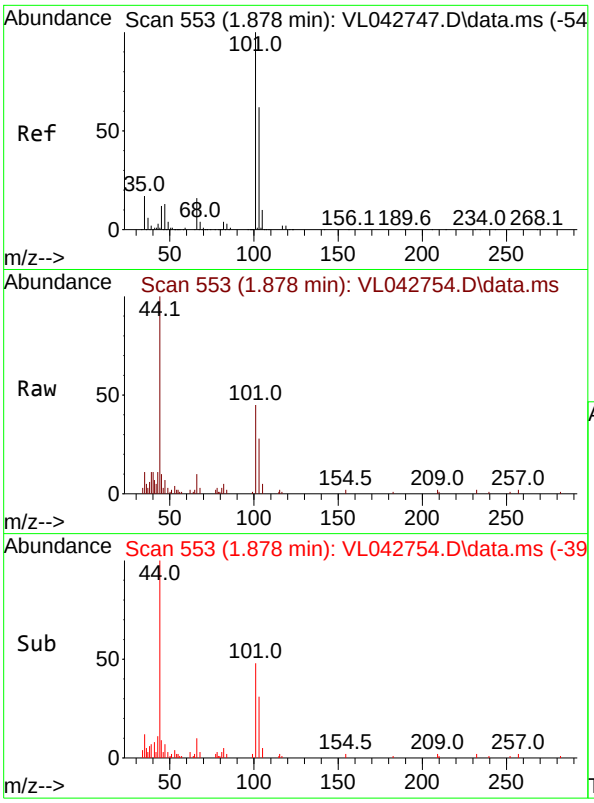


#10
Heptane
Concen: 0.032 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 43 Resp: 817

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.9	59.9#



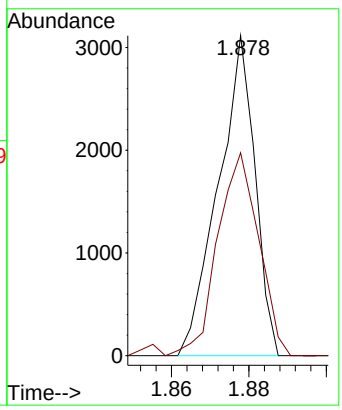


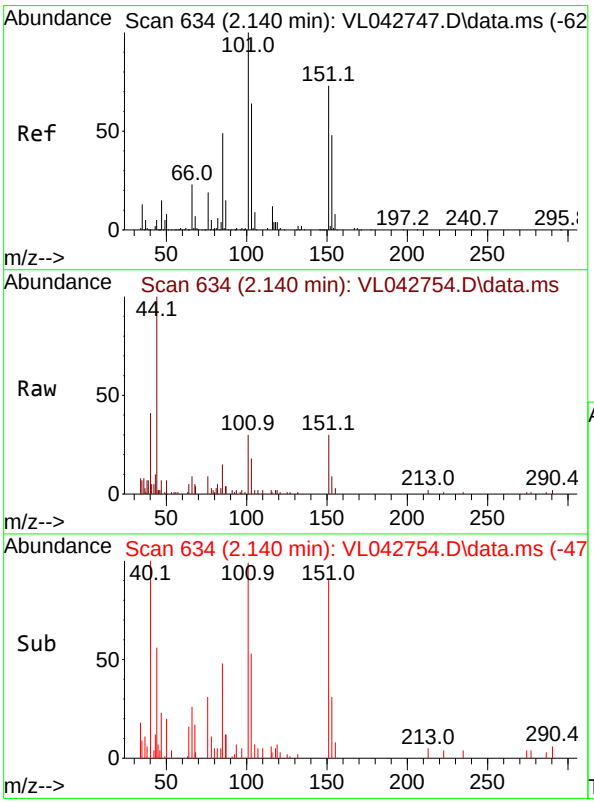
#11
Trichlorofluoromethane
Concen: 0.099 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:101 Resp: 2050

Ion	Ratio	Lower	Upper
101	100		
103	61.8	49.6	74.4

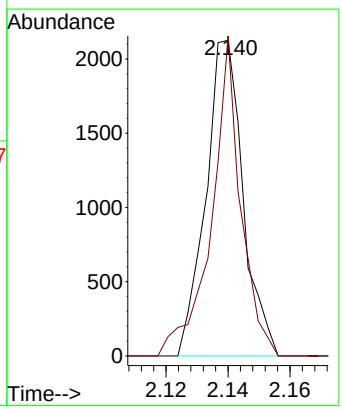


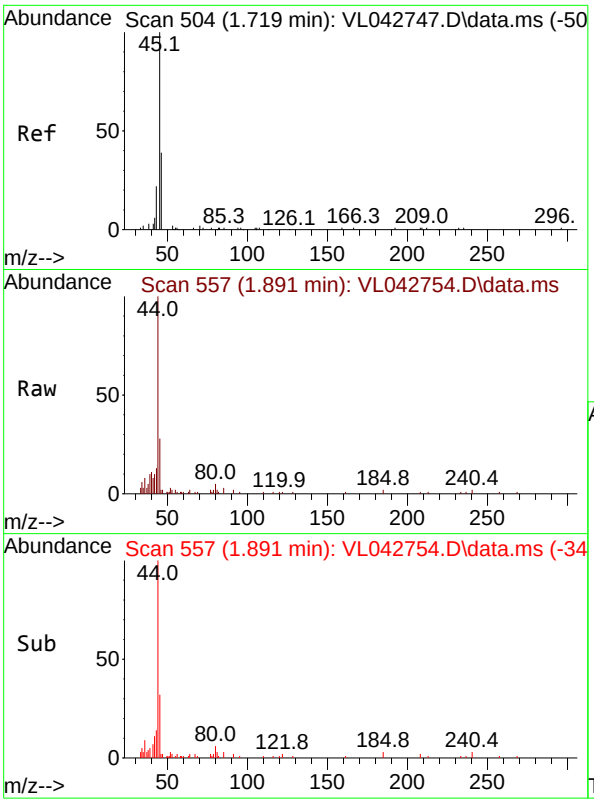


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.112 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:101 Resp: 1772

Ion	Ratio	Lower	Upper
101	100		
151	79.0	60.5	90.7



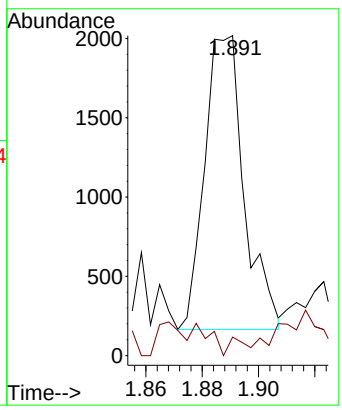


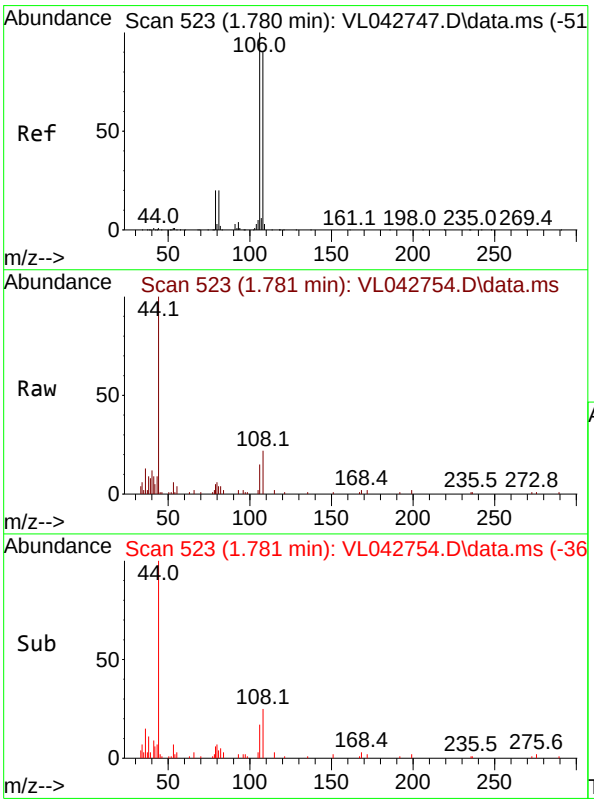
#13
Ethanol
Concen: 1.545 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.172 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 45 Resp: 1804

Ion	Ratio	Lower	Upper
45	100		
46	27.4	17.8	71.4

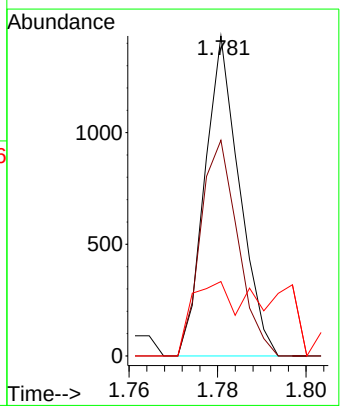


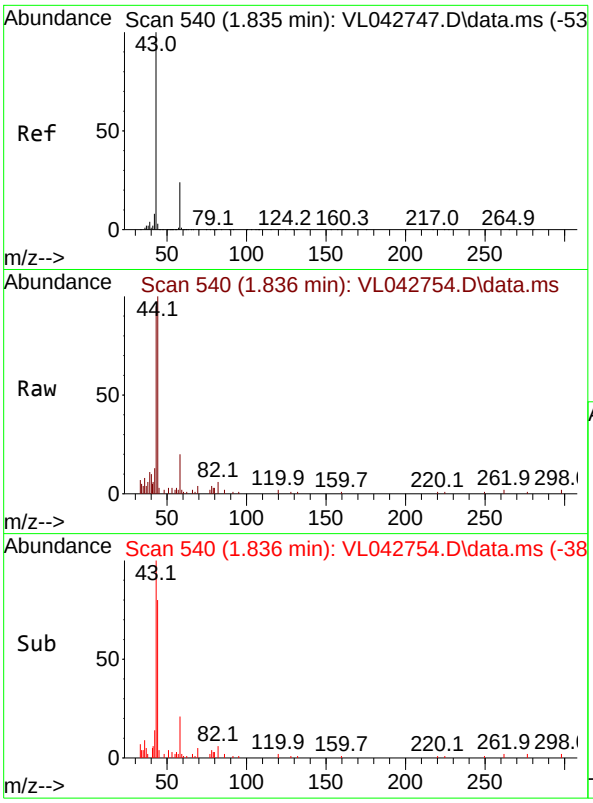


#14
Bromoethene
Concen: 0.139 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:108 Resp: 778

Ion	Ratio	Lower	Upper
108	100		
106	72.5	84.7	127.1#
79	74.6	17.4	26.2#



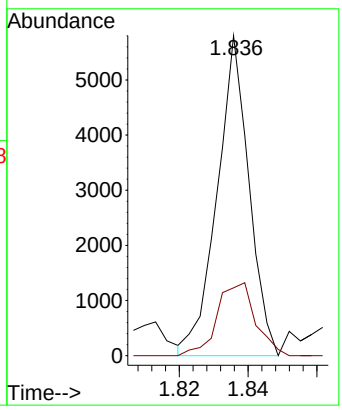


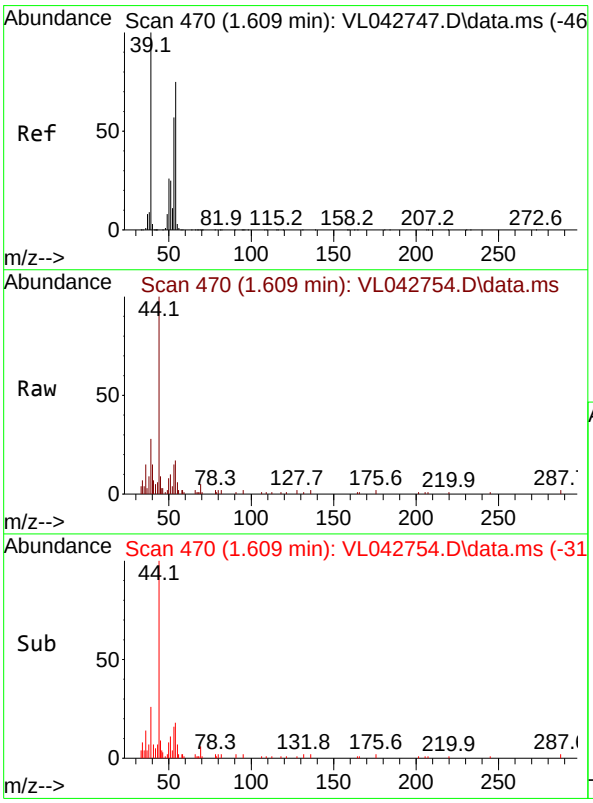
#15
Acetone
Concen: 0.177 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 3734

Ion	Ratio	Lower	Upper
43	100		
58	27.4	19.8	29.8

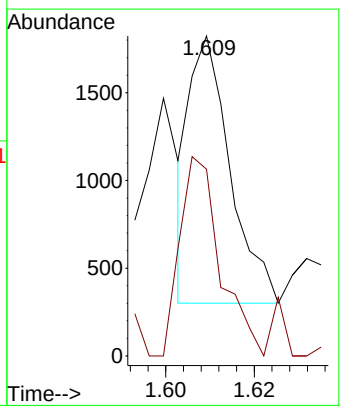


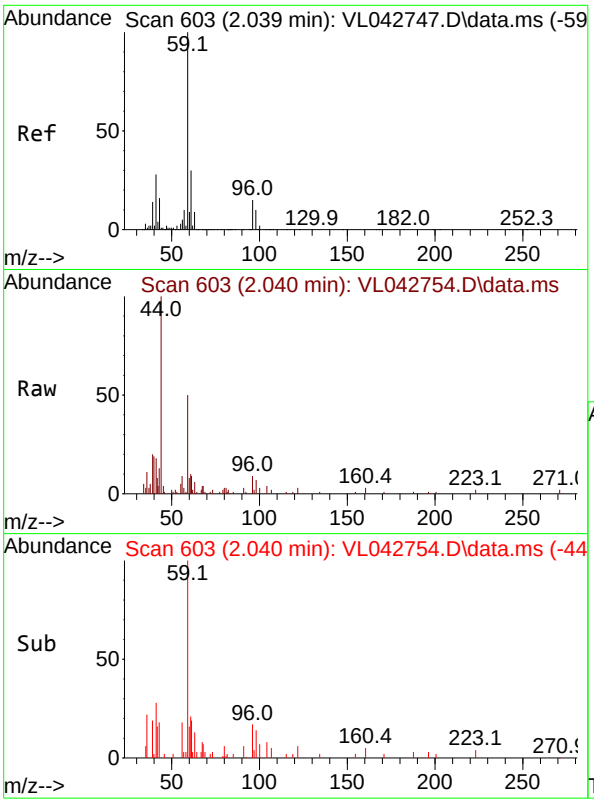


#16
1,3-Butadiene
Concen: 0.109 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 39 Resp: 976

Ion	Ratio	Lower	Upper
39	100		
54	115.6	54.5	81.7#



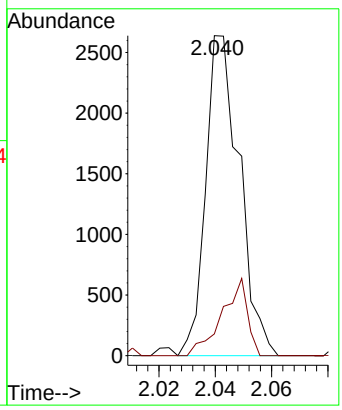


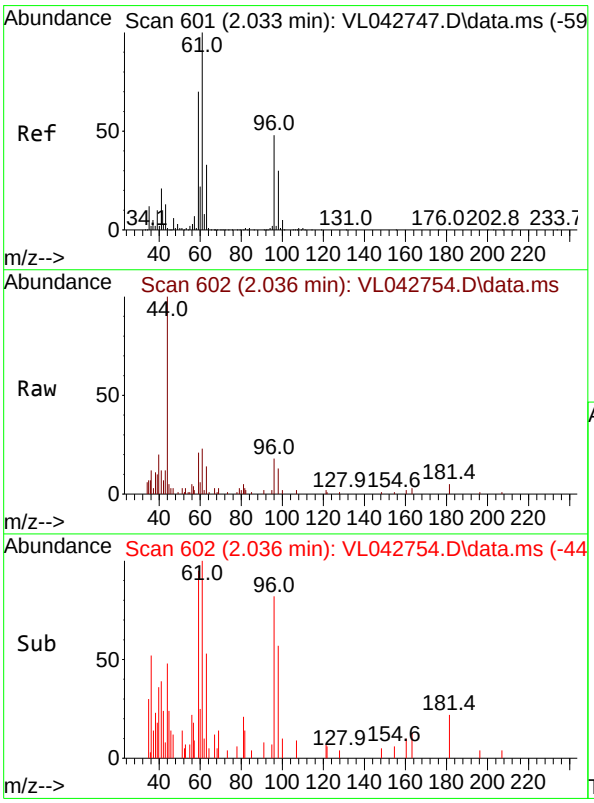
#17
tert-Butyl alcohol
Concen: 0.116 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 59 Resp: 2194

Ion	Ratio	Lower	Upper
59	100		
57	18.3	8.3	12.5#

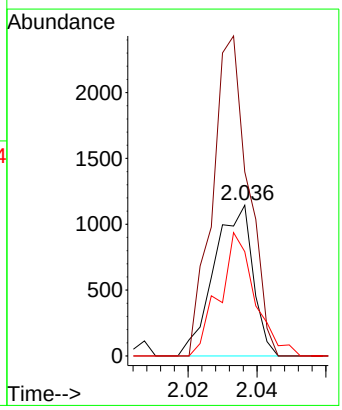


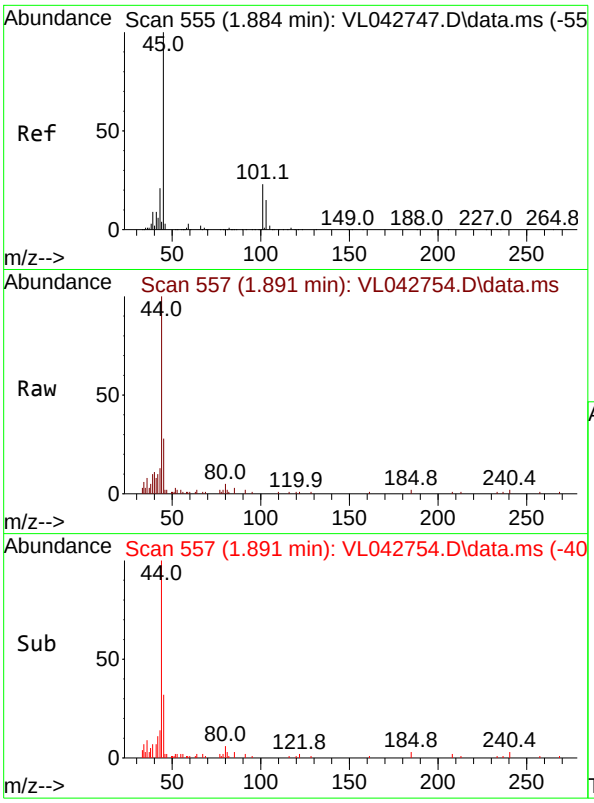


#18
1,1-Dichloroethene
Concen: 0.126 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 96 Resp: 899

Ion	Ratio	Lower	Upper
96	100		
61	122.3	165.8	248.6#
98	69.2	49.9	74.9



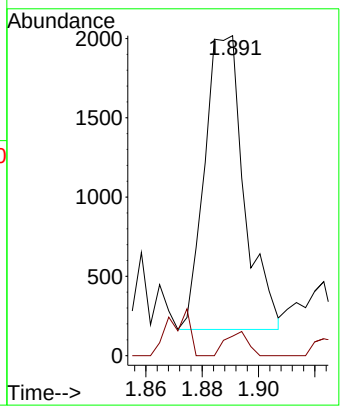


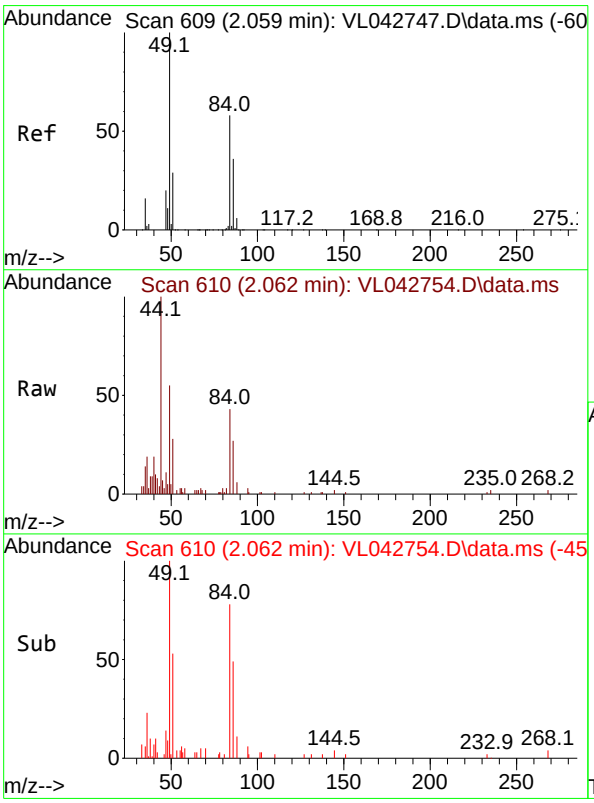
#19
Isopropyl Alcohol
Concen: 0.161 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 45 Resp: 1804

Ion	Ratio	Lower	Upper
45	100		
58	13.0	30.0	45.0#

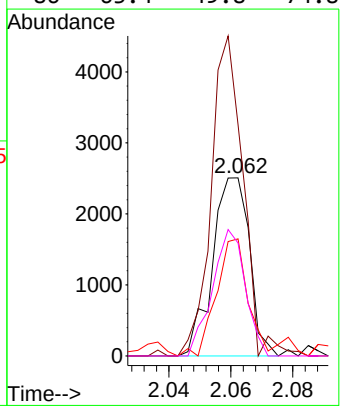


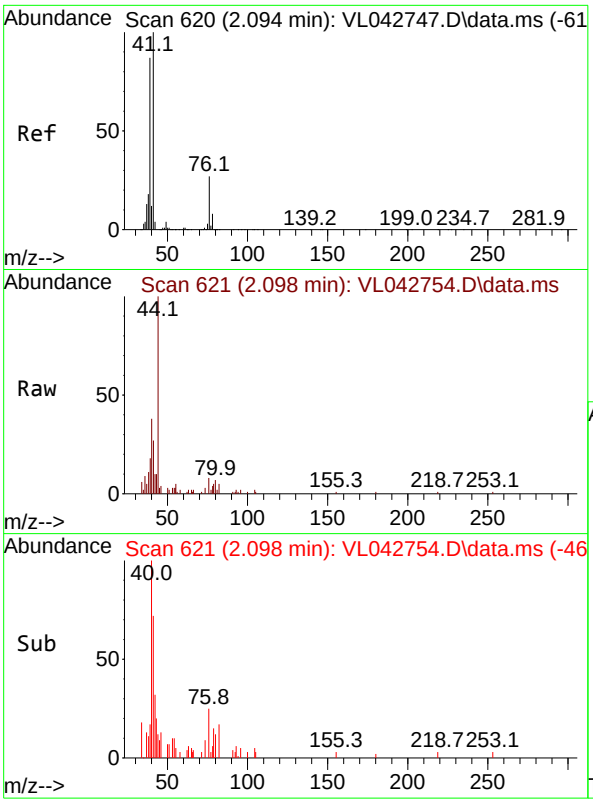


#20
Methylene Chloride
Concen: 0.314 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 84 Resp: 2080

Ion	Ratio	Lower	Upper
84	100		
49	129.9	138.6	208.0#
51	65.8	40.6	61.0#
86	63.4	49.8	74.8



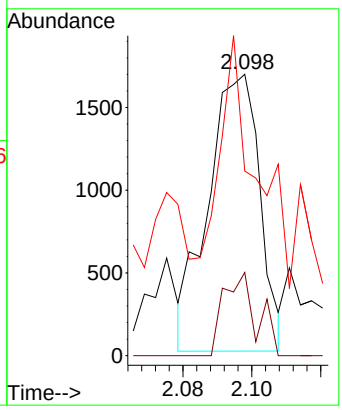


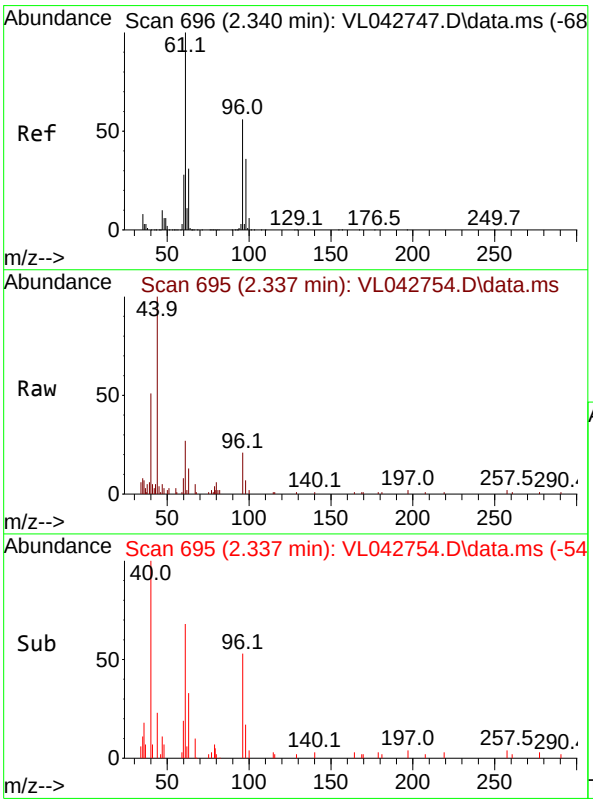
#21
Allyl Chloride
Concen: 0.135 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 41 Resp: 1747

Ion	Ratio	Lower	Upper
41	100		
76	19.1	21.1	31.7#
39	136.5	68.3	102.5#

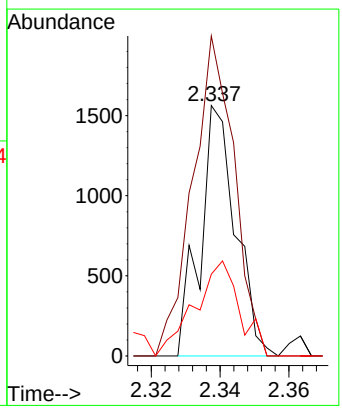


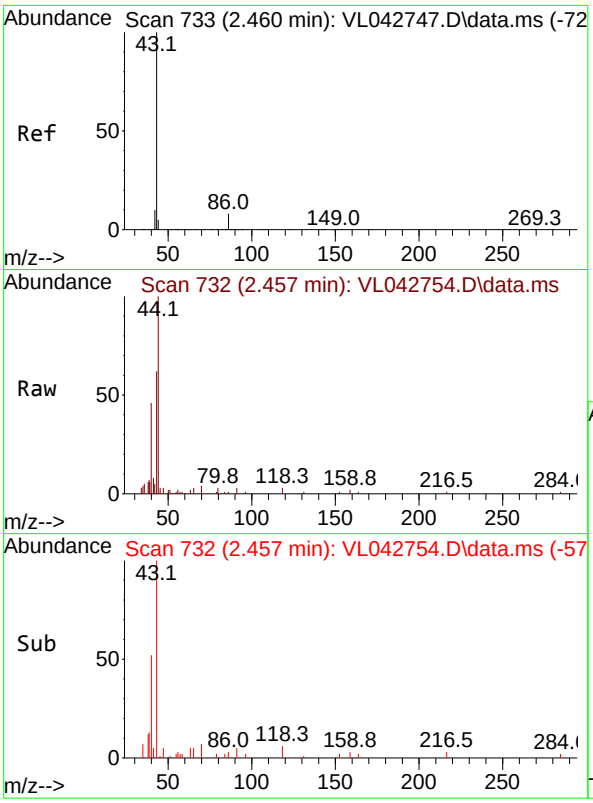


#22
trans-1,2-Dichloroethene
Concen: 0.146 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 96 Resp: 1116

Ion	Ratio	Lower	Upper
96	100		
61	127.8	142.3	213.5#
98	32.6	50.6	76.0#



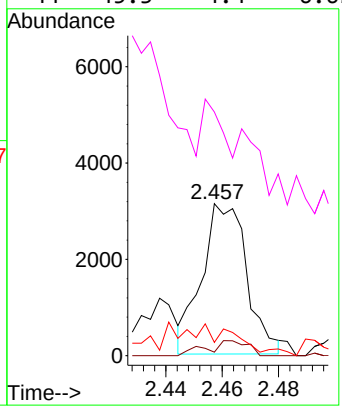


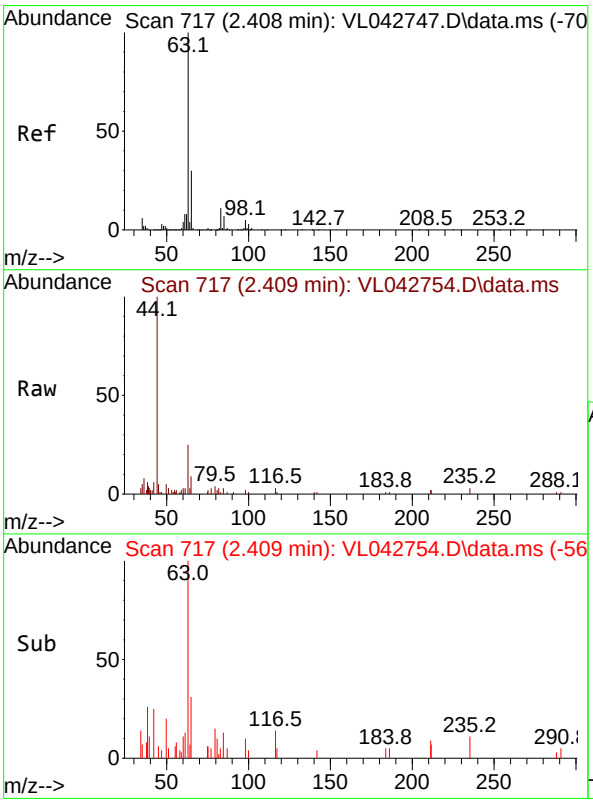
#23
Vinyl Acetate
Concen: 0.136 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 3460

Ion	Ratio	Lower	Upper
43	100		
86	2.5	6.1	9.1#
42	4.8	7.8	11.8#
44	45.3	4.4	6.6#

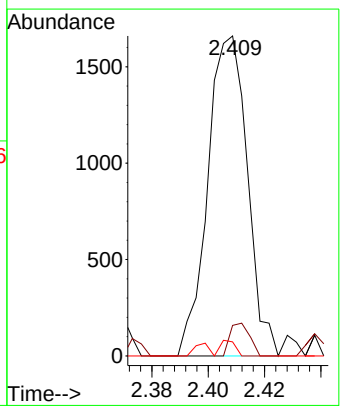


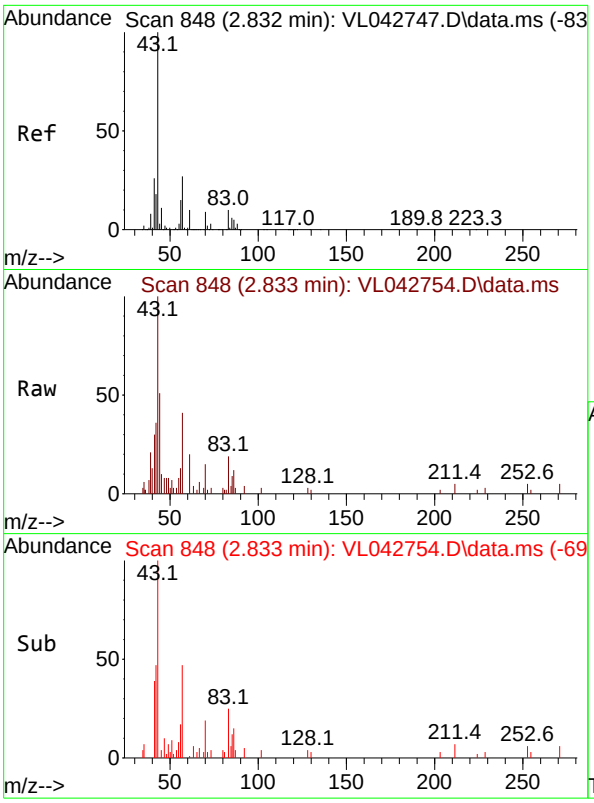


#24
1,1-Dichloroethane
Concen: 0.103 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 63 Resp: 1620

Ion	Ratio	Lower	Upper
63	100		
98	9.5	2.5	7.4#
100	4.4	1.6	4.8



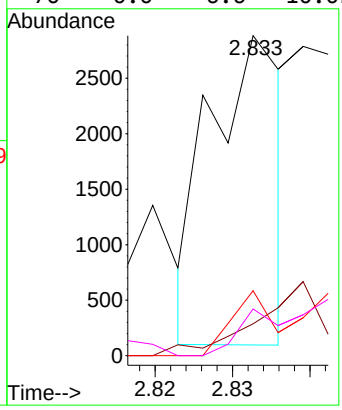


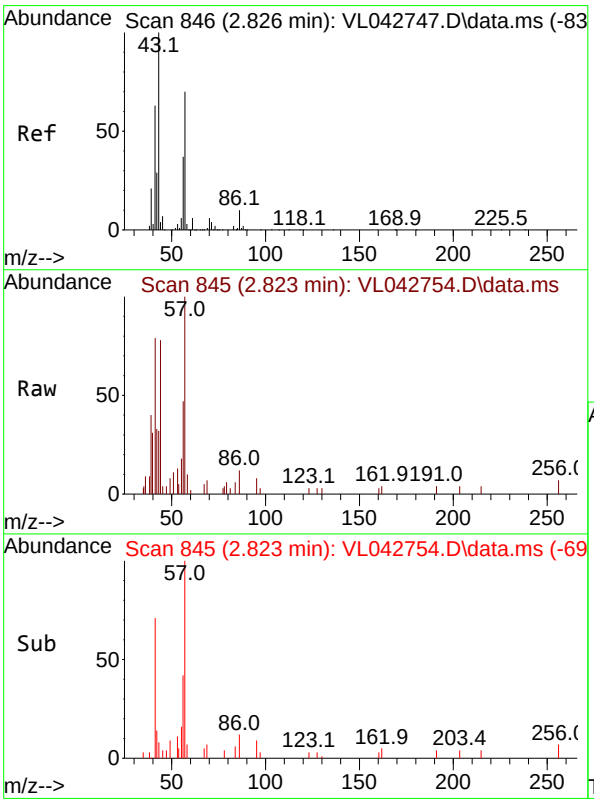
#25
Ethyl Acetate
Concen: 0.039 ppbv
RT: 2.833 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 1813

Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	26.6	6.7	10.1#
70	0.0	6.6	10.0#

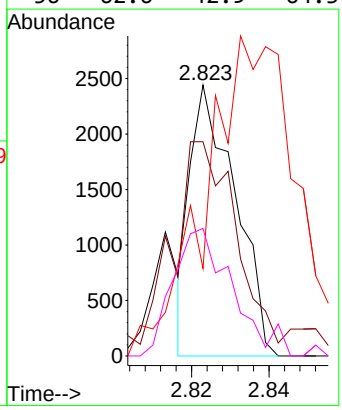


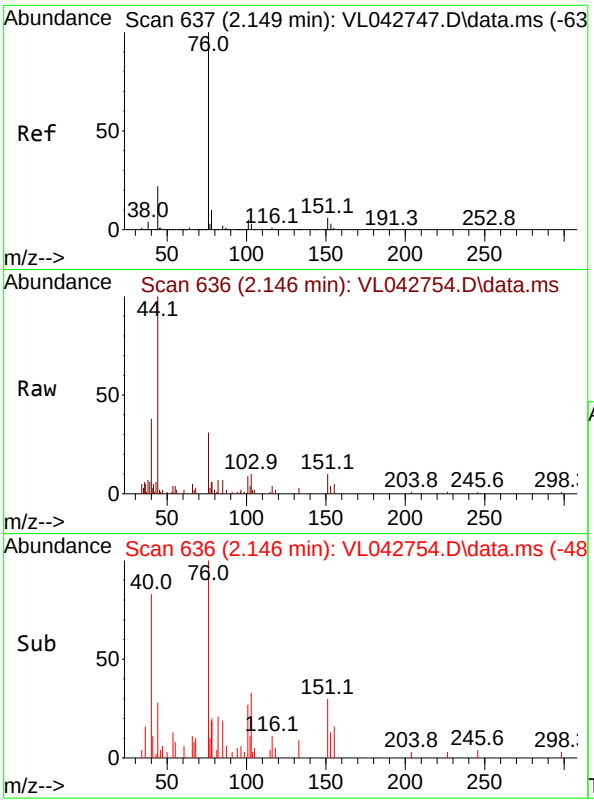


#26
Hexane
Concen: 0.097 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 57 Resp: 1982

Ion	Ratio	Lower	Upper
57	100		
41	149.4	75.4	113.2#
43	252.9	185.0	277.6
56	62.6	42.9	64.3



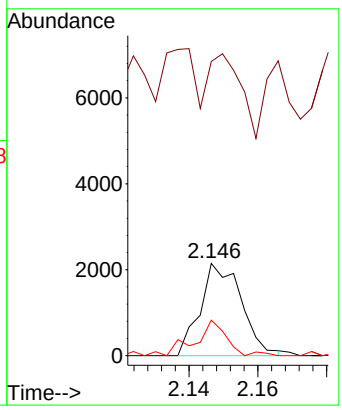


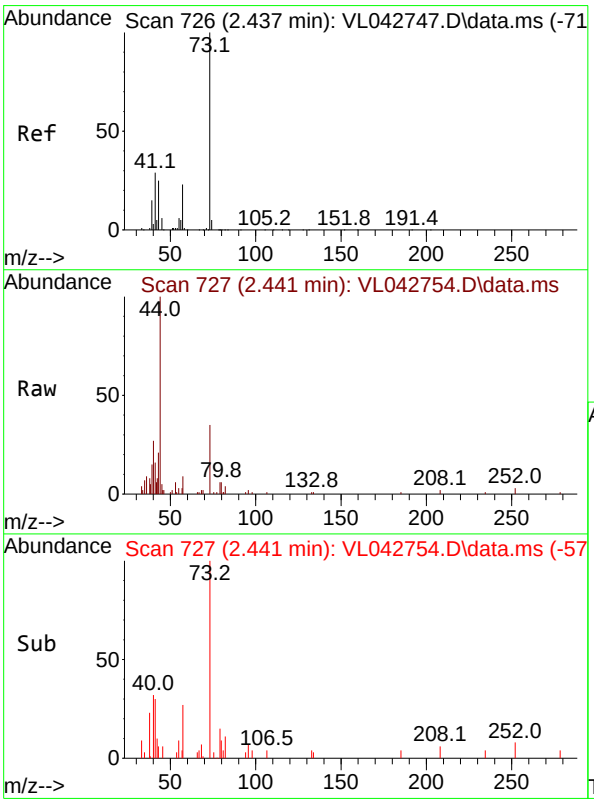
#27
Carbon Disulfide
Concen: 0.102 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 76 Resp: 1789

Ion	Ratio	Lower	Upper
76	100		
44	606.9	19.3	28.9#
78	30.9	9.9	14.9#

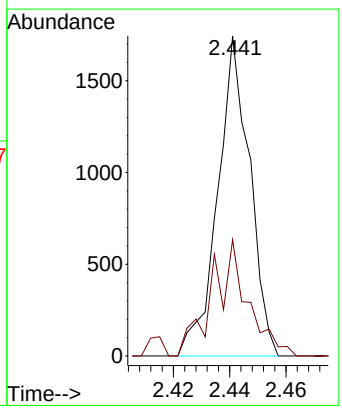


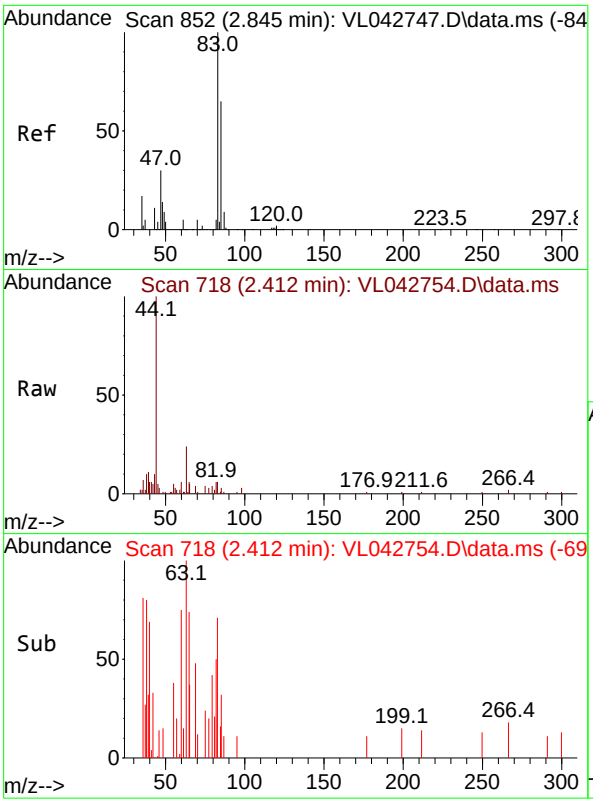


#28
Methyl tert-Butyl Ether
Concen: 0.143 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 73 Resp: 1378

Ion	Ratio	Lower	Upper
73	100		
57	44.8	19.8	29.8#



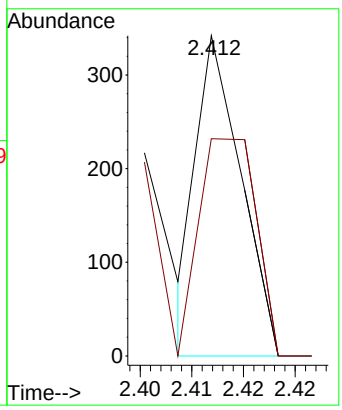


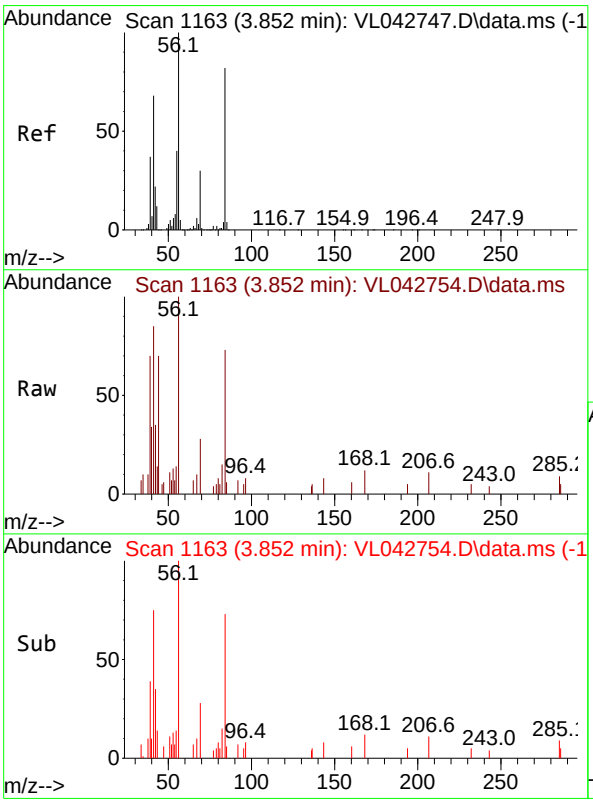
#29
Chloroform
Concen: 0.003 ppbv
RT: 2.412 min Scan# 7
Delta R.T. -0.433 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 83 Resp: 101

Ion	Ratio	Lower	Upper
83	100		
85	67.8	52.2	78.2

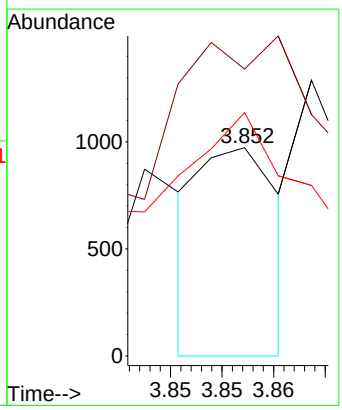


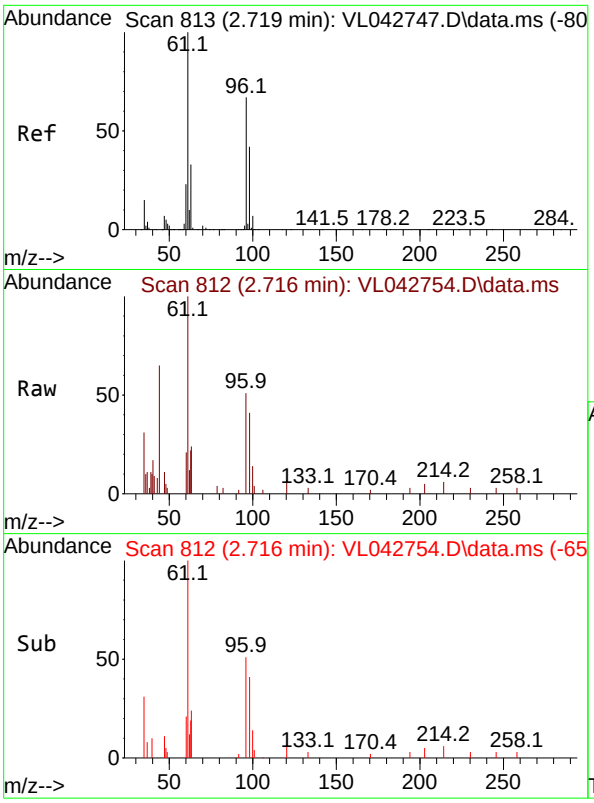


#30
Cyclohexane
Concen: 0.030 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 84 Resp: 516

Ion	Ratio	Lower	Upper
84	100		
56	0.0	97.5	146.3#
41	369.4	67.2	100.8#



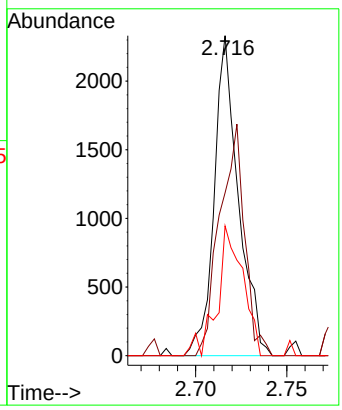


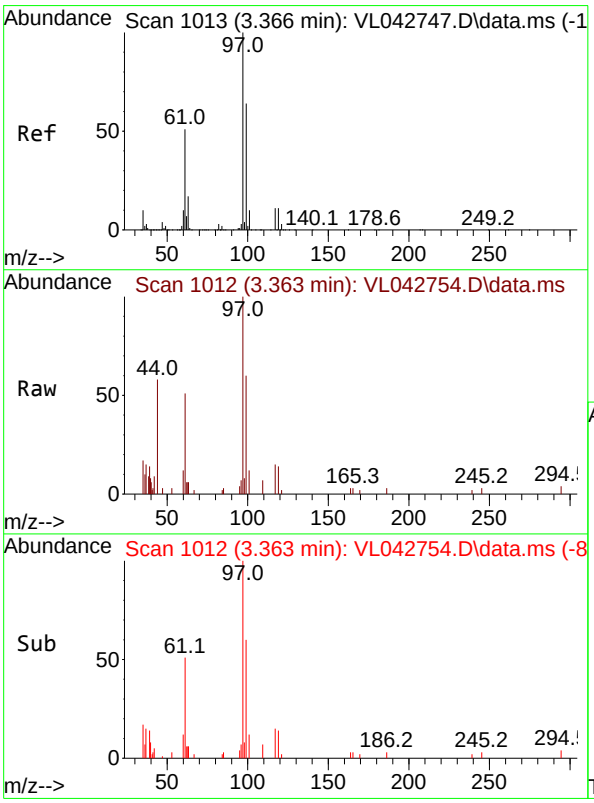
#31
cis-1,2-Dichloroethene
Concen: 0.103 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 61 Resp: 2152

Ion	Ratio	Lower	Upper
61	100		
96	50.9	53.5	80.3#
98	40.5	33.6	50.4

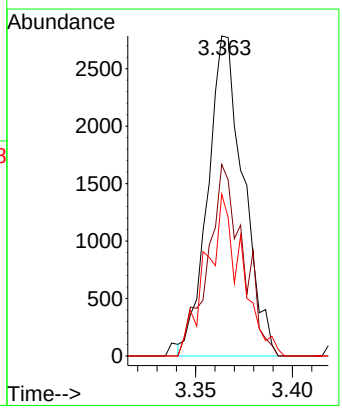


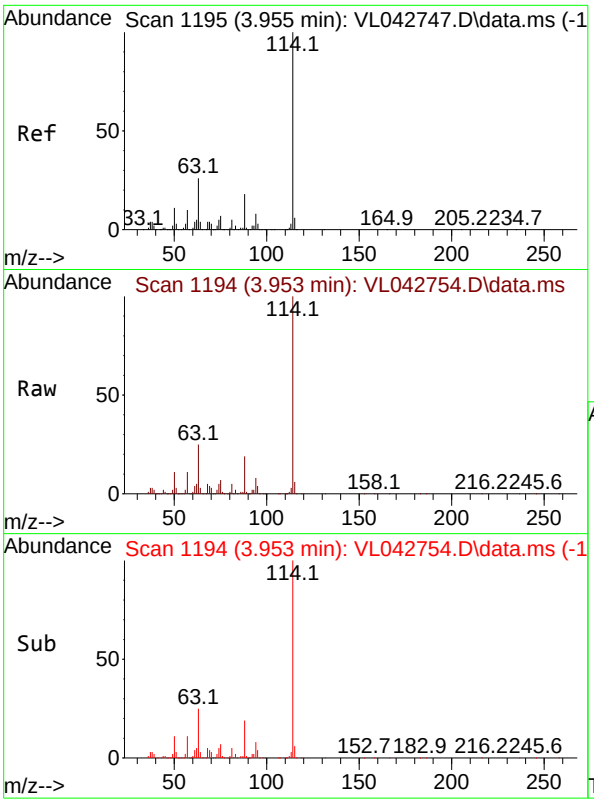


#32
1,1,1-Trichloroethane
Concen: 0.108 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 97 Resp: 3550

Ion	Ratio	Lower	Upper
97	100		
99	59.4	51.0	76.6
61	50.4	40.9	61.3



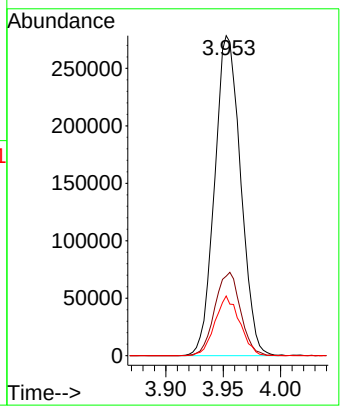


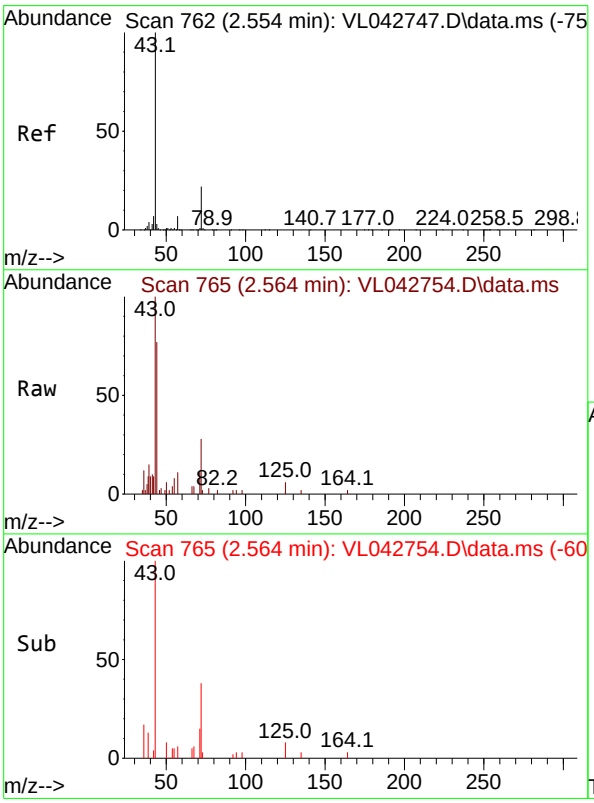
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.953 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:114 Resp: 438604

Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.5	30.7
88	17.8	14.0	21.0

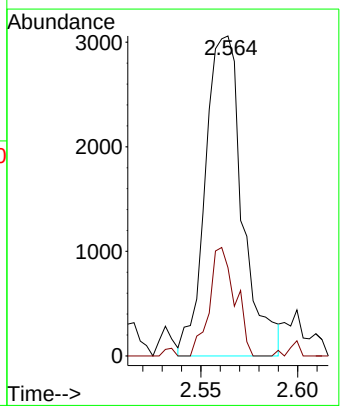


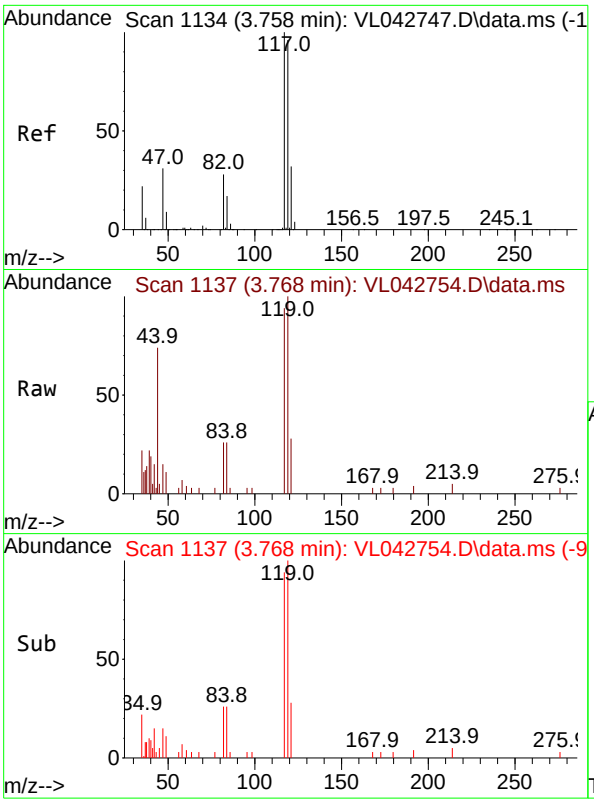


#34
2-Butanone
Concen: 0.132 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 43 Resp: 4086

Ion	Ratio	Lower	Upper
43	100		
72	24.2	17.4	26.0



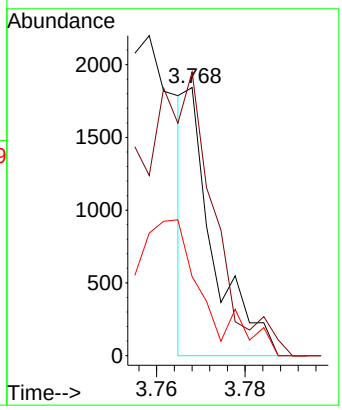


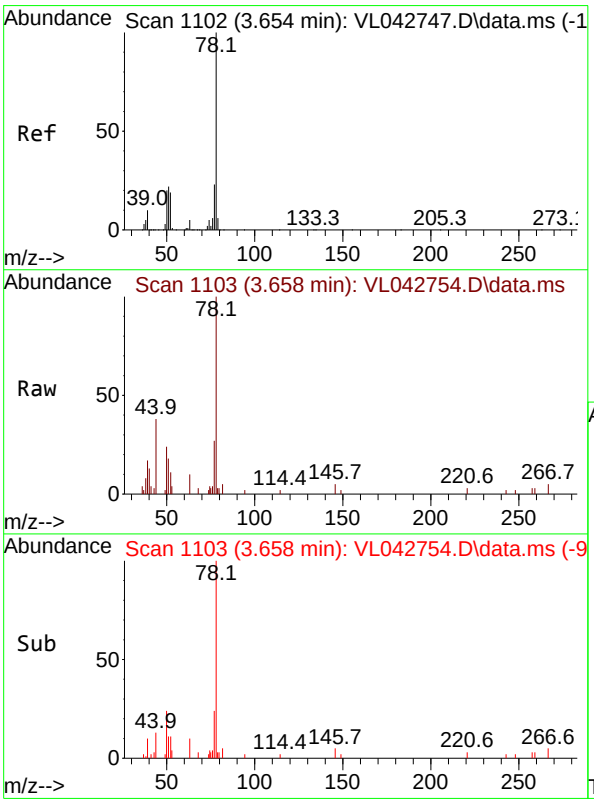
#35
Carbon Tetrachloride
Concen: 0.024 ppbv
RT: 3.768 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:117 Resp: 796

Ion	Ratio	Lower	Upper
117	100		
119	99.9	77.1	115.7
121	29.5	25.5	38.3

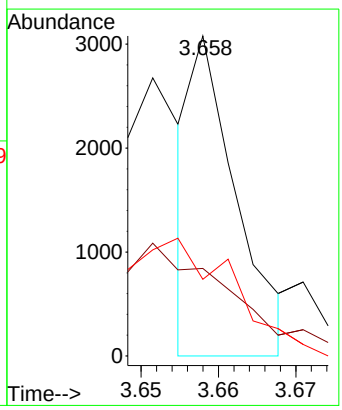


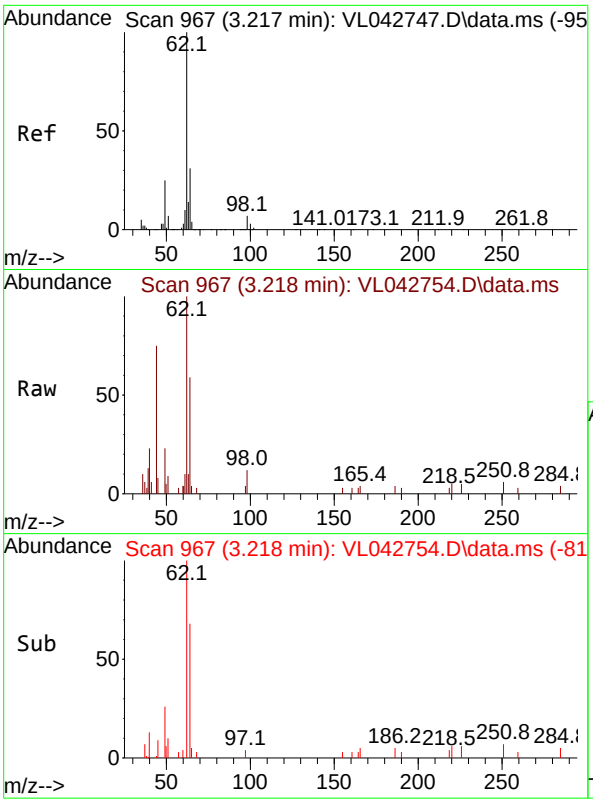


#36
Benzene
Concen: 0.030 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 78 Resp: 1246

Ion	Ratio	Lower	Upper
78	100		
77	25.9	18.5	27.7
50	19.1	16.2	24.2



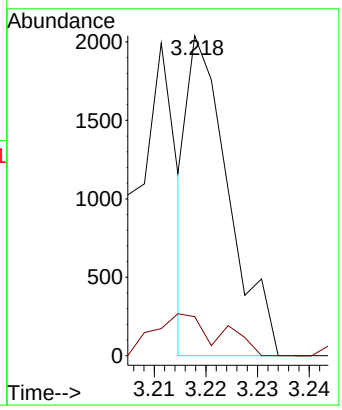


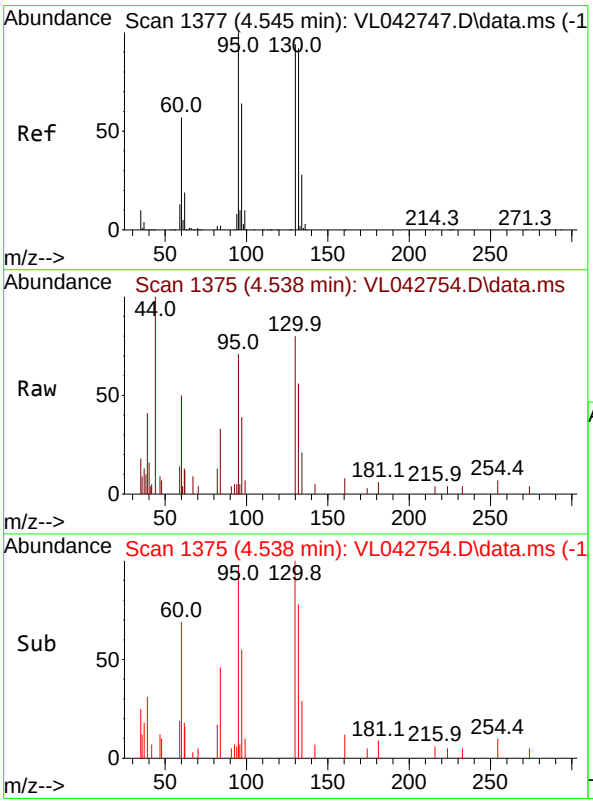
#37
1,2-Dichloroethane
Concen: 0.044 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 1114

Ion	Ratio	Lower	Upper
62	100		
98	21.1	5.2	7.8#

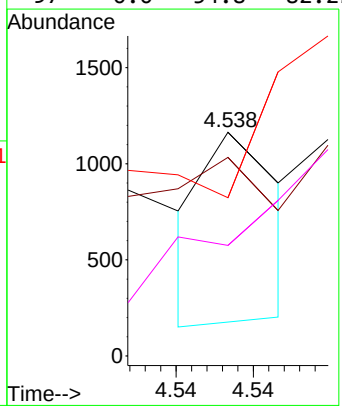


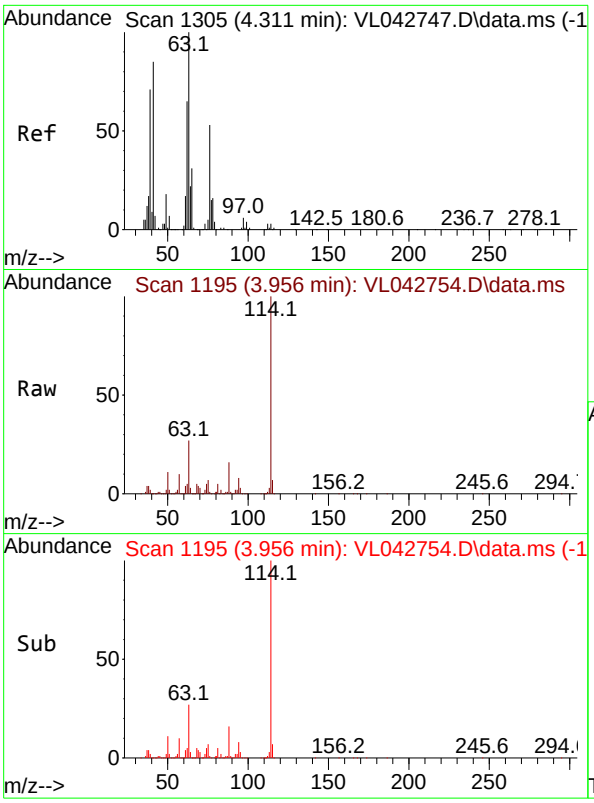


#38
Trichloroethene
Concen: 0.017 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:130 Resp: 333

Ion	Ratio	Lower	Upper
130	100		
95	67.3	85.4	128.2#
132	0.0	78.2	117.2#
97	0.0	54.8	82.2#



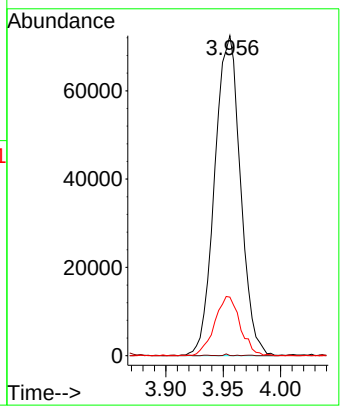


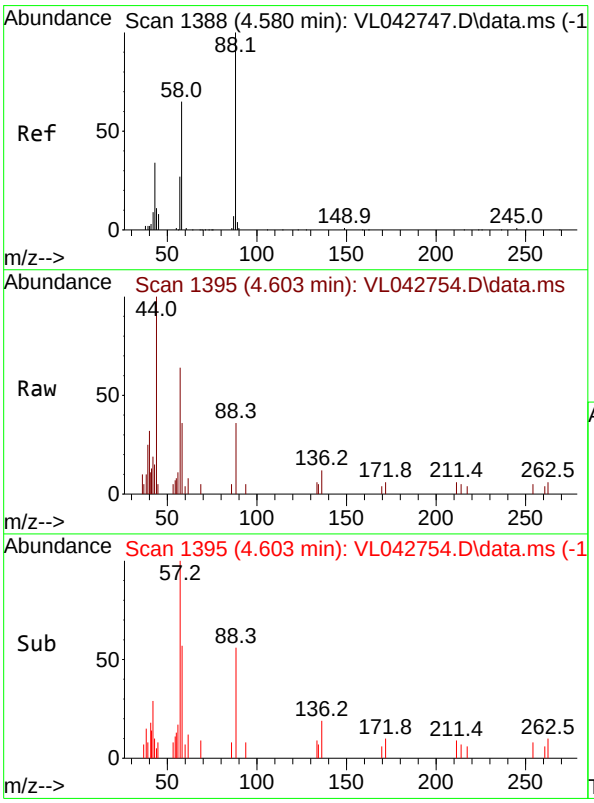
#39
1,2-Dichloropropane
Concen: 7.376 ppbv
RT: 3.956 min Scan# 11
Delta R.T. -0.356 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 63 Resp: 113176

Ion	Ratio	Lower	Upper
63	100		
41	0.1	68.2	102.4#
62	18.3	52.0	78.0#

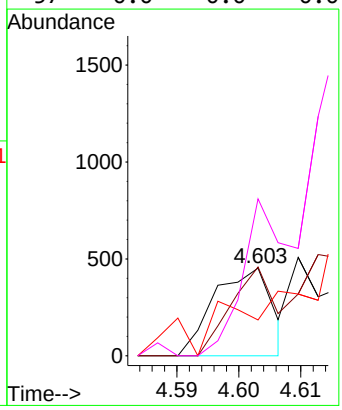


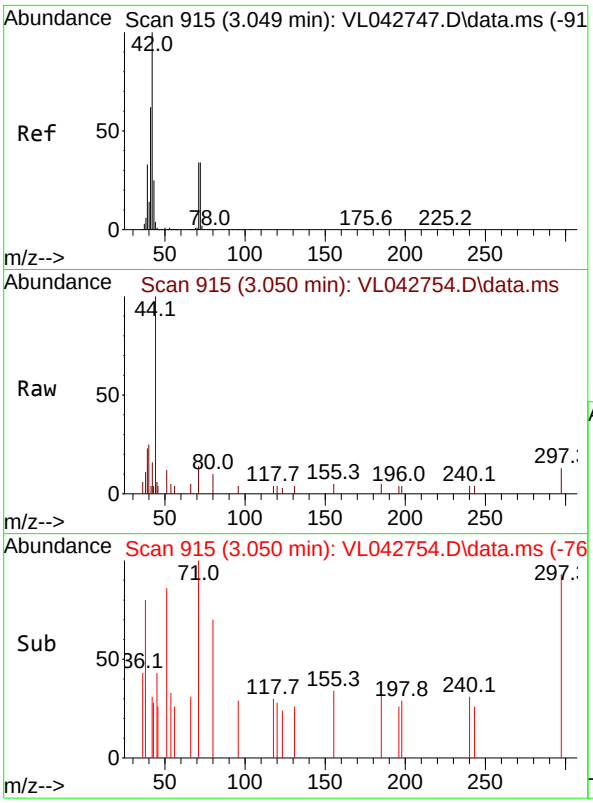


#40
1,4-Dioxane
Concen: 0.041 ppbv
RT: 4.603 min Scan# 1395
Delta R.T. 0.023 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 88 Resp: 294

Ion	Ratio	Lower	Upper
88	100		
58	0.0	58.8	88.2#
43	31.0	28.9	43.3
57	0.0	0.0	0.0



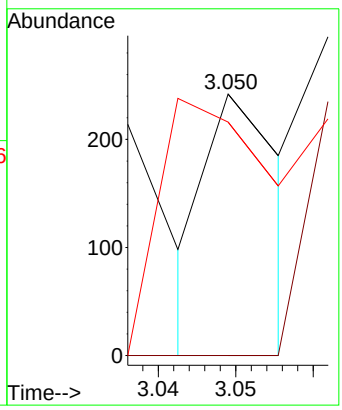


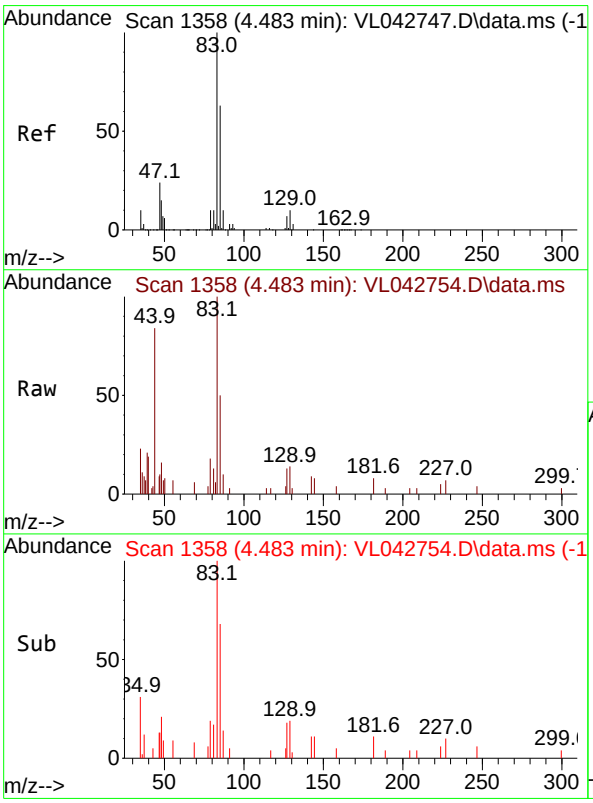
#41
Tetrahydrofuran
Concen: 0.005 ppbv
RT: 3.050 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 42 Resp: 83

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	0.0	28.6	43.0#

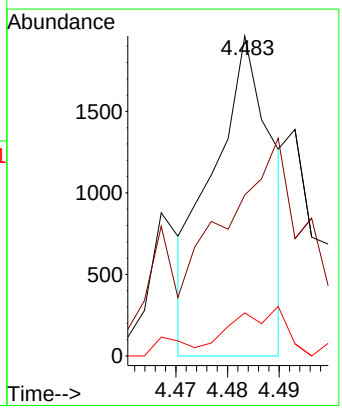


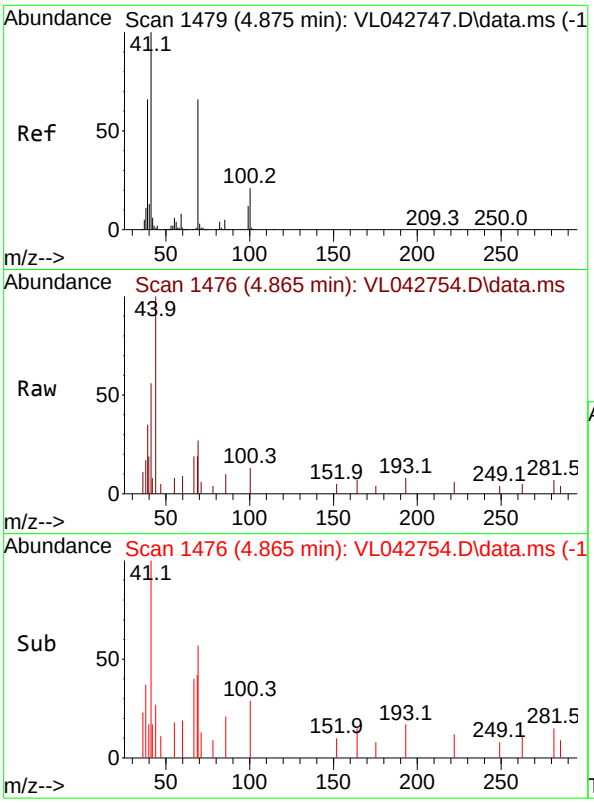


#42
Bromodichloromethane
Concen: 0.048 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 83 Resp: 1563

Ion	Ratio	Lower	Upper
83	100		
85	51.2	50.2	75.4
127	14.0	5.4	8.2#



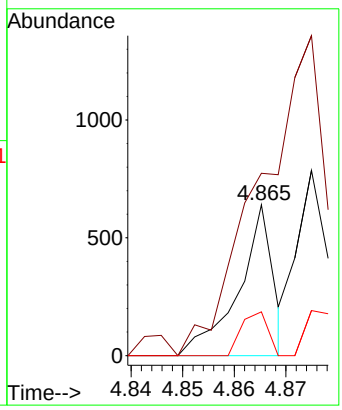


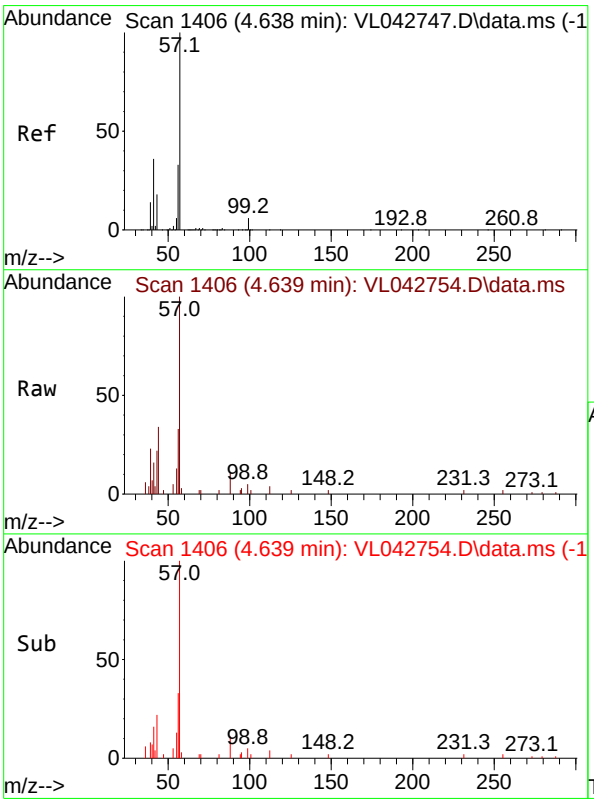
#43
Methyl Methacrylate
Concen: 0.020 ppbv
RT: 4.865 min Scan# 14
Delta R.T. -0.009 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 69 Resp: 298

Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	0.0	28.6	42.8#

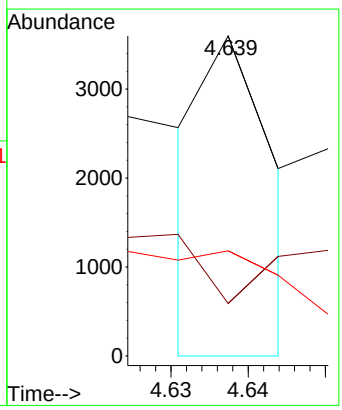


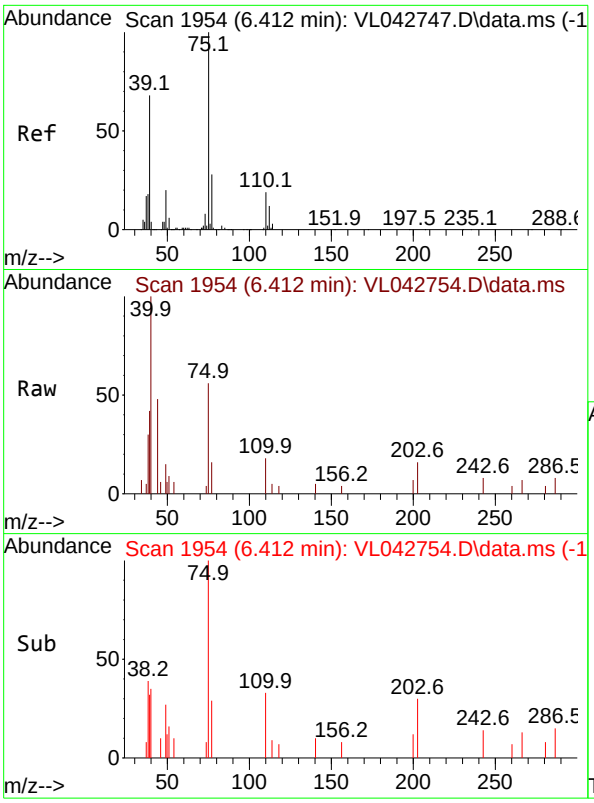


#44
2,2,4-Trimethylpentane
Concen: 0.016 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 57 Resp: 1109

Ion	Ratio	Lower	Upper
57	100		
41	271.4	28.3	42.5#
56	0.0	25.8	38.6#



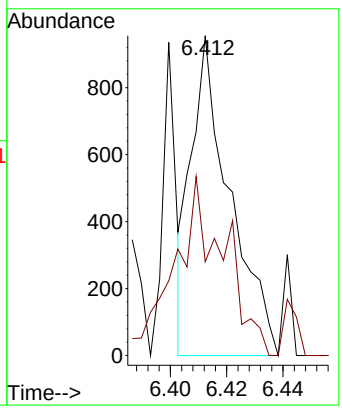


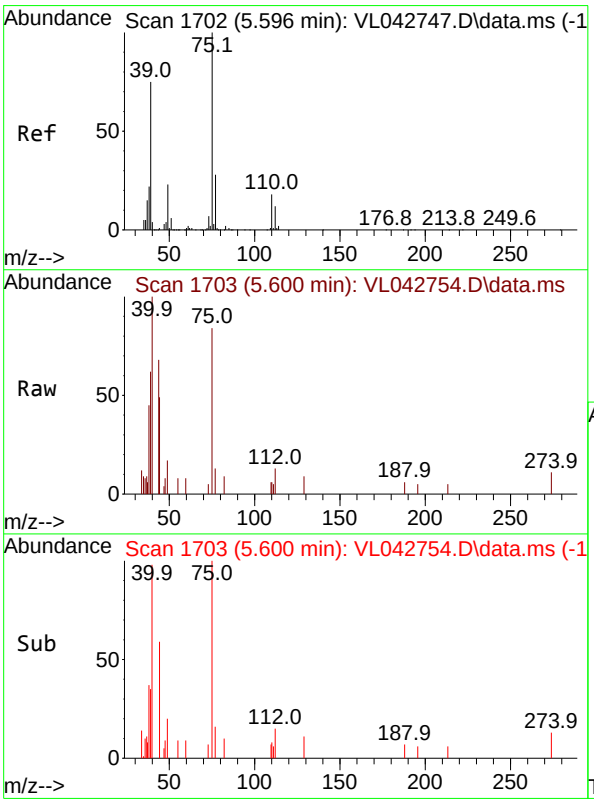
#45
t-1,3-Dichloropropene
Concen: 0.055 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 75 Resp: 912

Ion	Ratio	Lower	Upper
75	100		
77	29.3	22.4	33.6

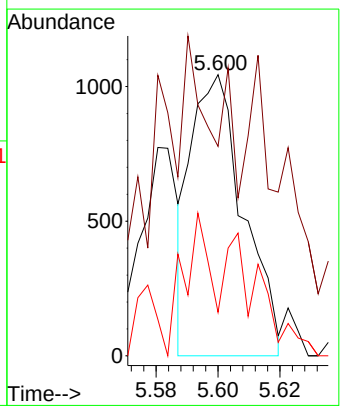


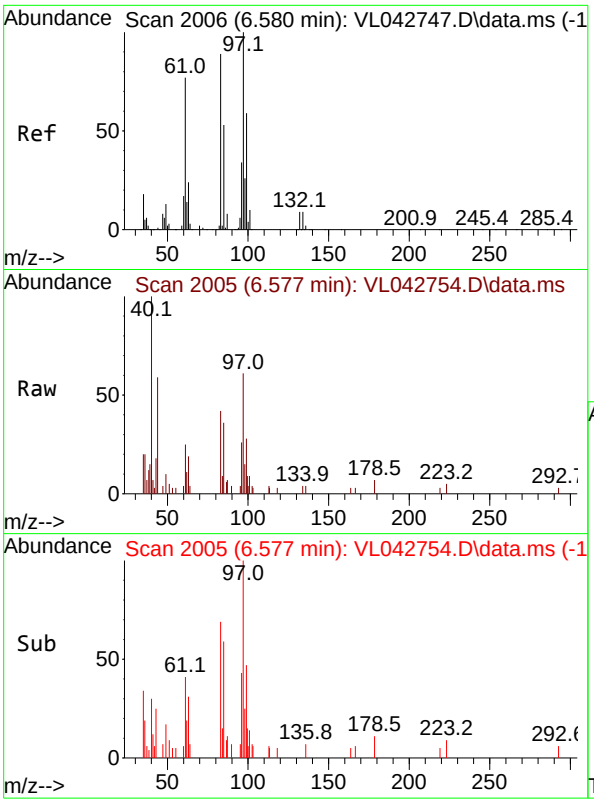


#46
cis-1,3-Dichloropropene
Concen: 0.059 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 75 Resp: 1232

Ion	Ratio	Lower	Upper
75	100		
39	17.5	60.2	90.2#
77	11.5	22.6	34.0#



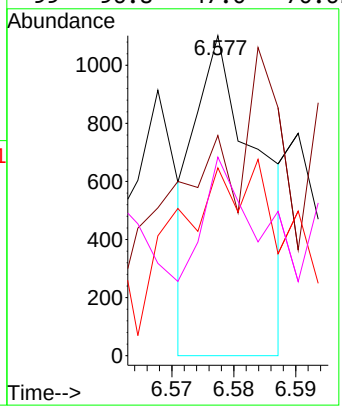


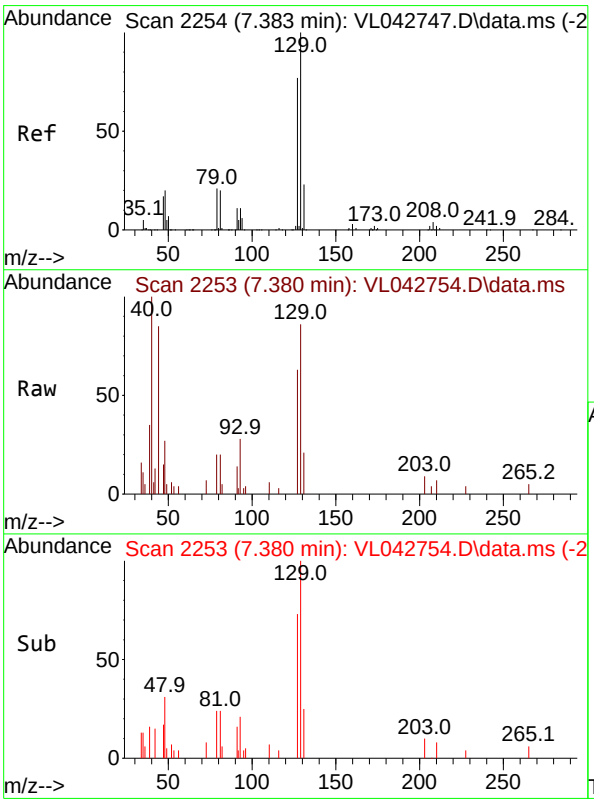
#47
1,1,2-Trichloroethane
Concen: 0.048 ppbv
RT: 6.577 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 97 Resp: 787

Ion	Ratio	Lower	Upper
97	100		
83	35.7	71.1	106.7#
85	67.0	43.0	64.4#
99	96.8	47.0	70.6#

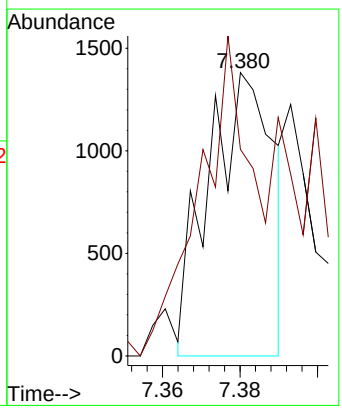


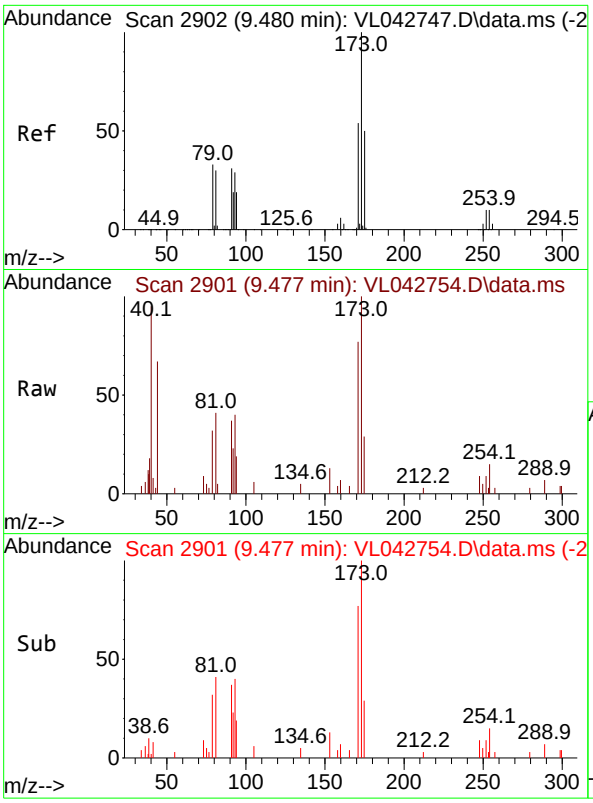


#48
Dibromochloromethane
Concen: 0.061 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:129 Resp: 1591

Ion	Ratio	Lower	Upper
129	100		
127	145.4	38.7	116.1#



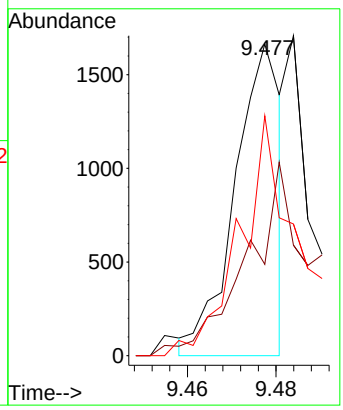


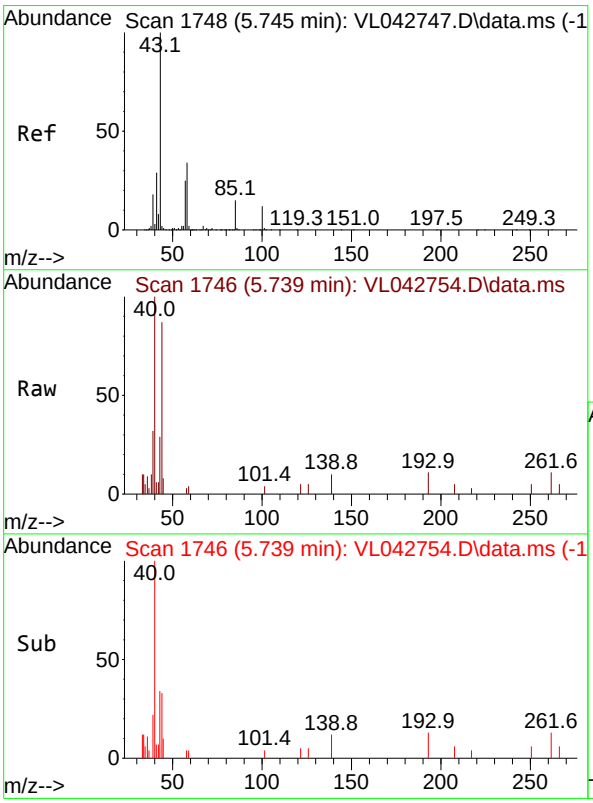
#49
Bromoform
Concen: 0.053 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:173 Resp: 1201

Ion	Ratio	Lower	Upper
173	100		
175	0.0	38.4	57.6#
171	100.8	40.9	61.3#

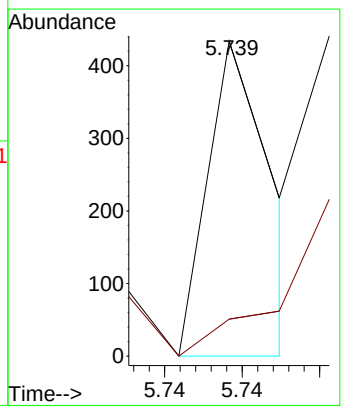


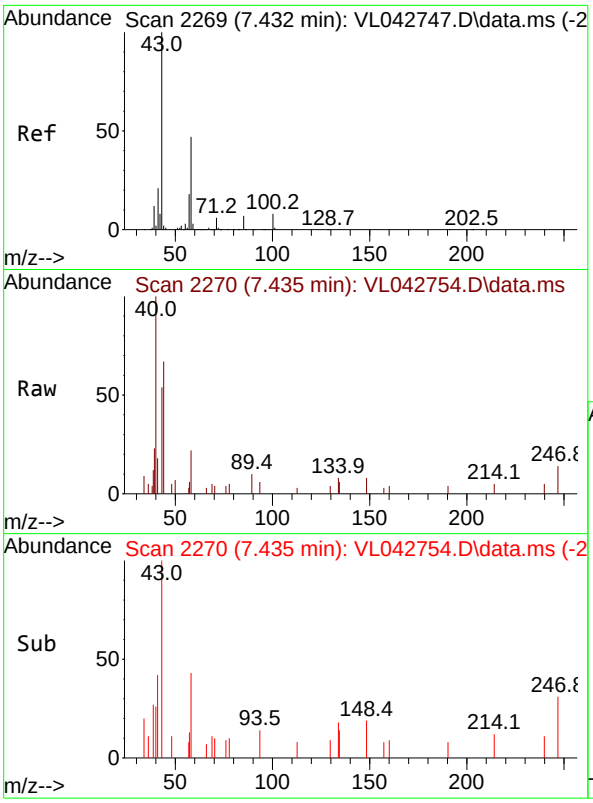


#50
4-Methyl-2-Pentanone
Concen: 0.003 ppbv
RT: 5.739 min Scan# 1746
Delta R.T. -0.006 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 43 Resp: 126

Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.8	41.8#



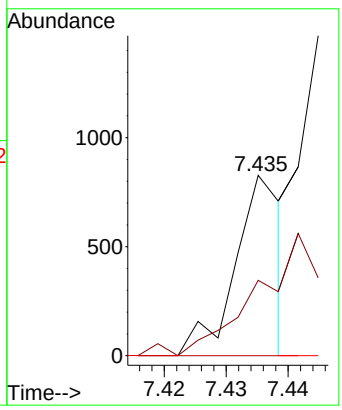


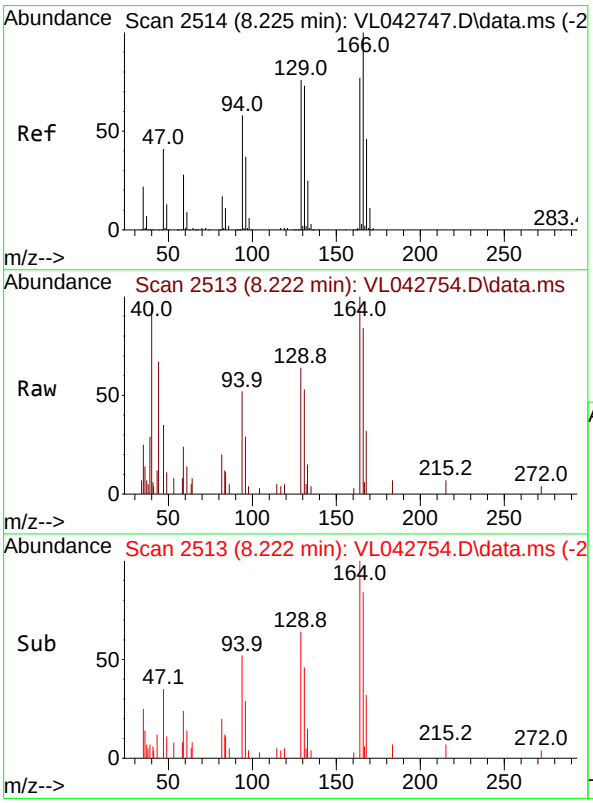
#51
2-Hexanone
Concen: 0.014 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 436

Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.0	57.0#
98	0.0	0.2	0.4#

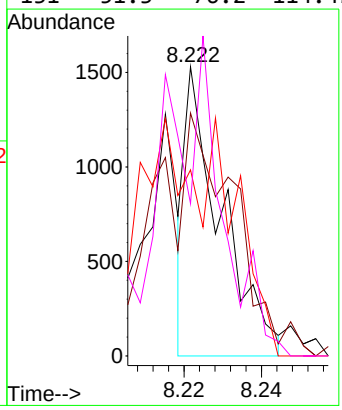


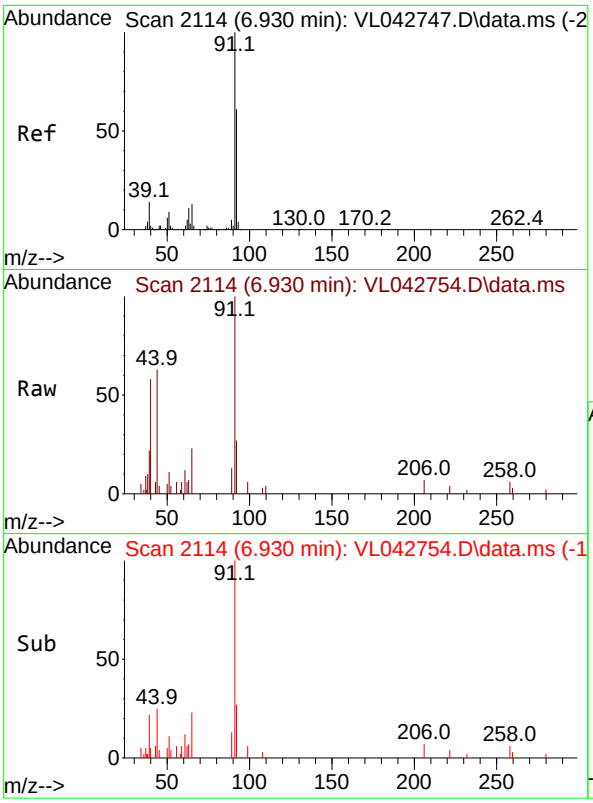


#52
Tetrachloroethene
Concen: 0.057 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:164 Resp: 981

Ion	Ratio	Lower	Upper
164	100		
166	85.9	104.0	156.0#
129	69.2	79.2	118.8#
131	51.3	76.2	114.4#



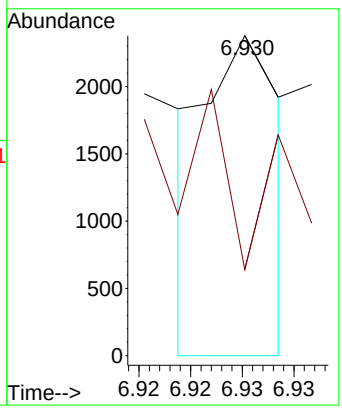


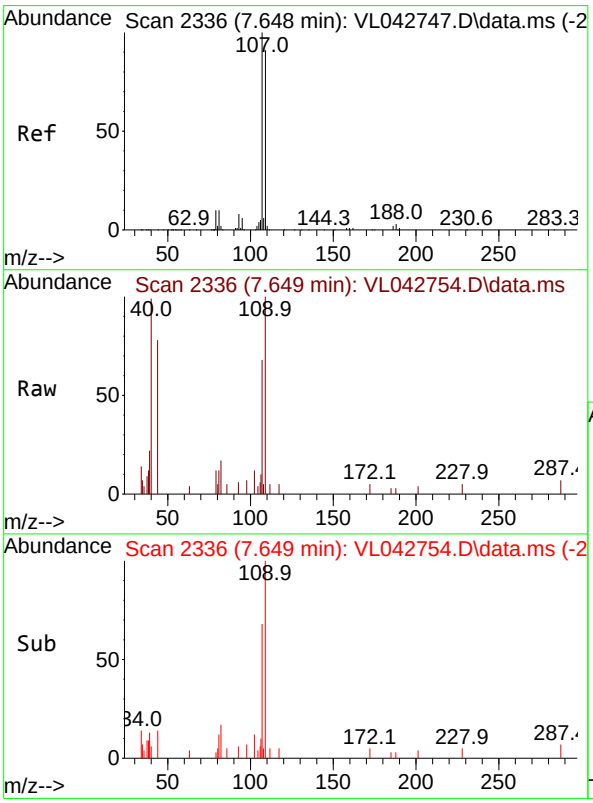
#53
Toluene
Concen: 0.027 ppbv
RT: 6.930 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 1198

Ion	Ratio	Lower	Upper
91	100		
92	229.3	48.0	72.0#

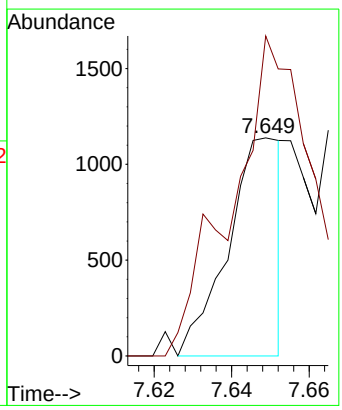


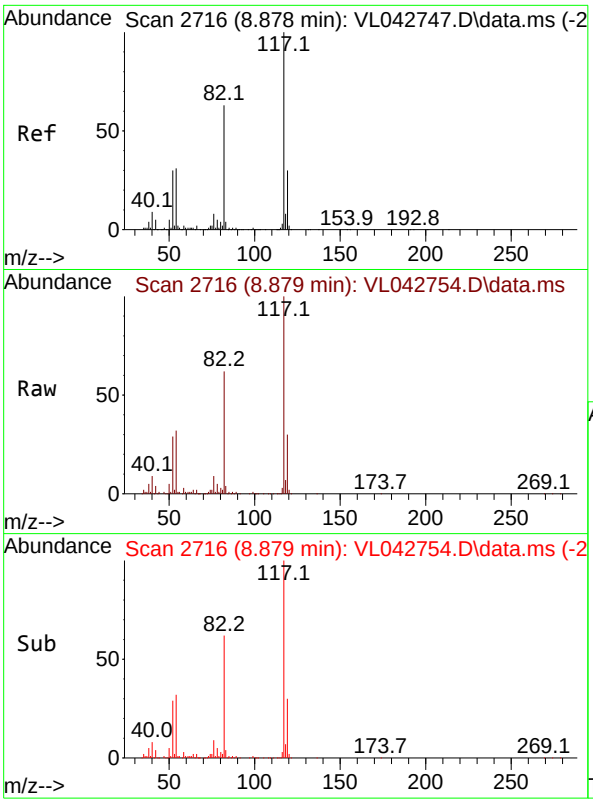


#54
1,2-Dibromoethane
Concen: 0.047 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:107 Resp: 1080

Ion	Ratio	Lower	Upper
107	100		
109	136.0	72.7	109.1#



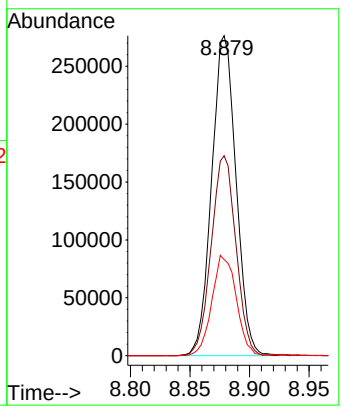


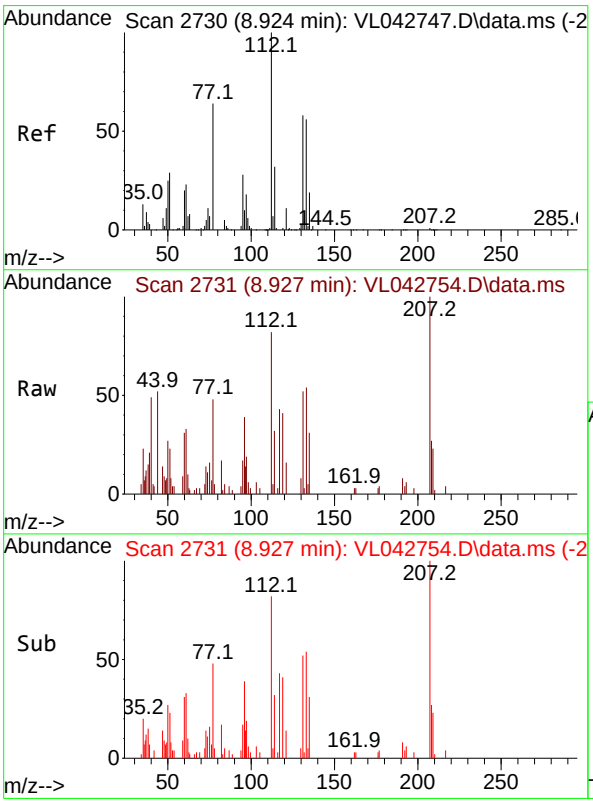
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:117 Resp: 393042

Ion	Ratio	Lower	Upper
117	100		
82	63.6	53.3	79.9
119	31.7	25.8	38.6

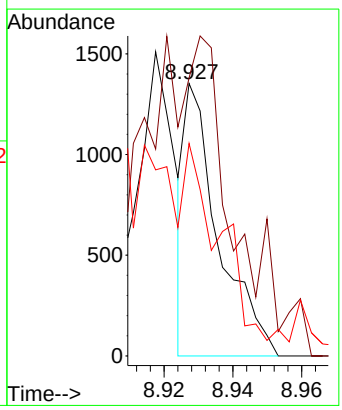


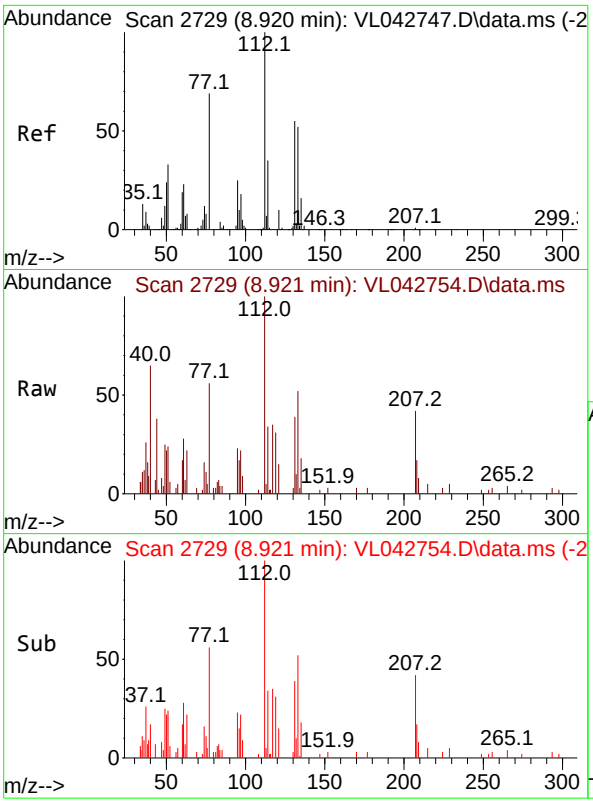


#56
1,1,1,2-Tetrachloroethane
Concen: 0.045 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:131 Resp: 922

Ion	Ratio	Lower	Upper
131	100		
133	315.4	76.8	115.2#
119	0.0	49.7	74.5#



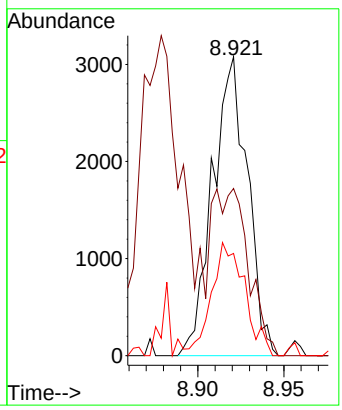


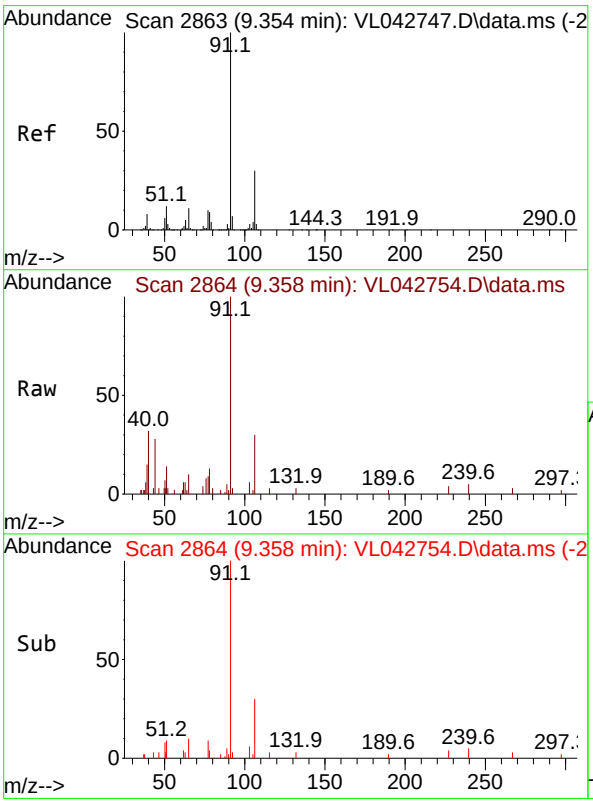
#57
Chlorobenzene
Concen: 0.114 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:112 Resp: 4337

Ion	Ratio	Lower	Upper
112	100		
77	55.9	56.4	84.6#
114	34.2	31.2	38.2

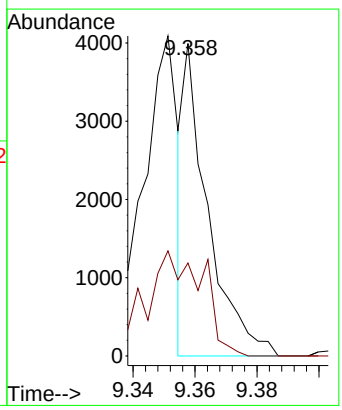


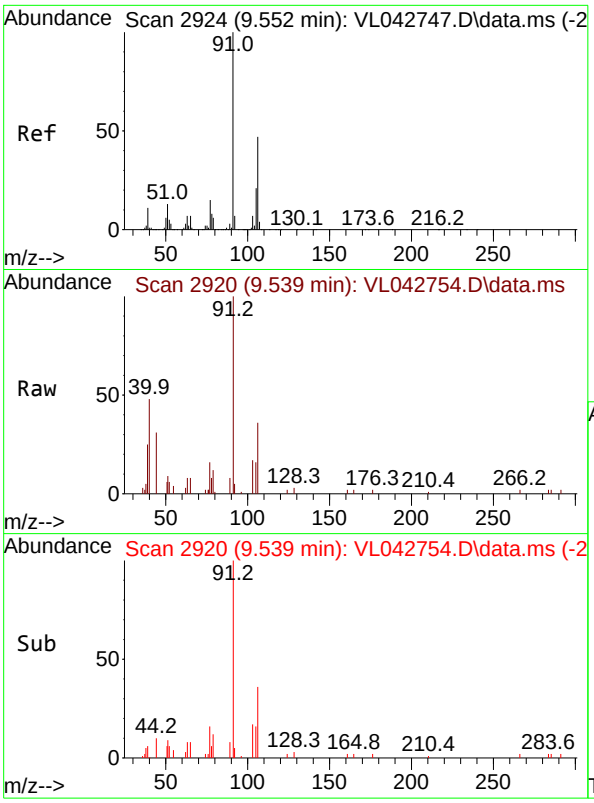


#58
Ethyl Benzene
Concen: 0.035 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 91 Resp: 2183

Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.8	35.6



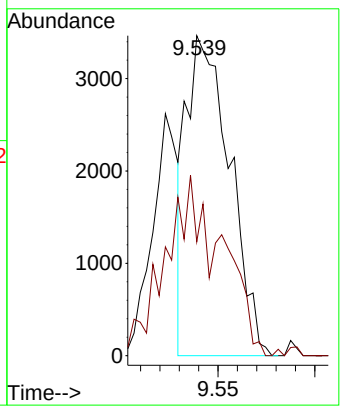


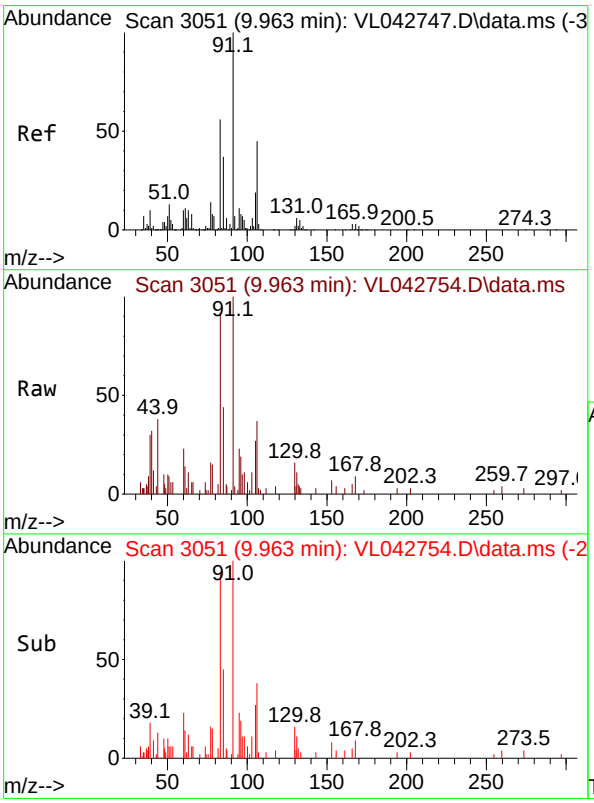
#59
m/p-Xylene
Concen: 0.109 ppbv
RT: 9.539 min Scan# 2
Delta R.T. -0.013 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 5405

Ion	Ratio	Lower	Upper
91	100		
106	73.2	37.4	56.2#

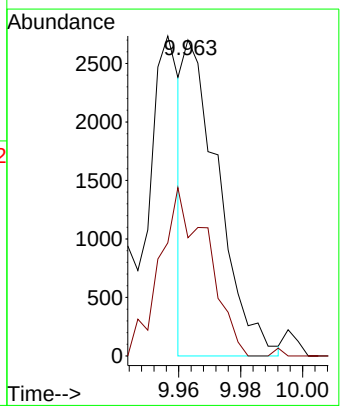


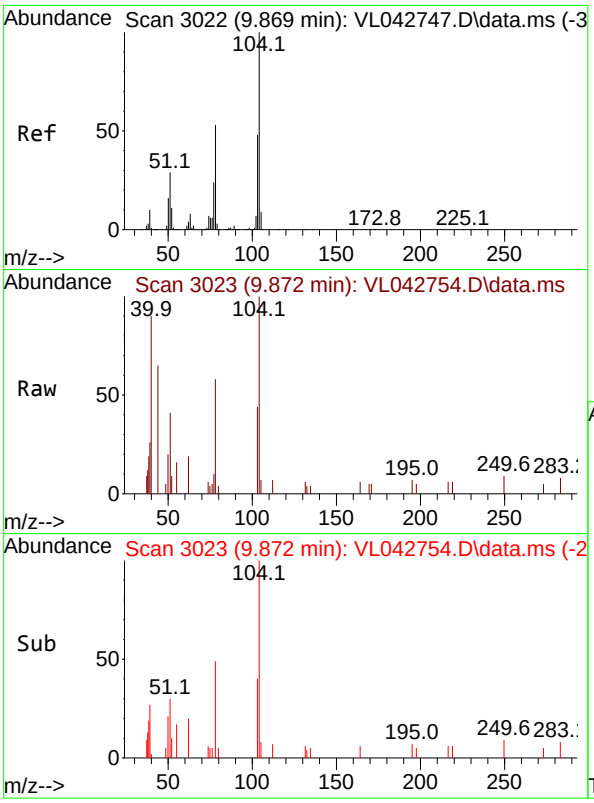


#60
o-Xylene
Concen: 0.042 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 91 Resp: 2101

Ion	Ratio	Lower	Upper
91	100		
106	74.2	22.0	66.0#



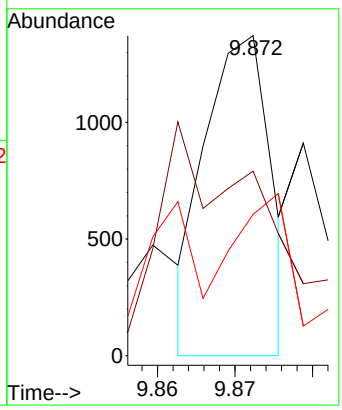


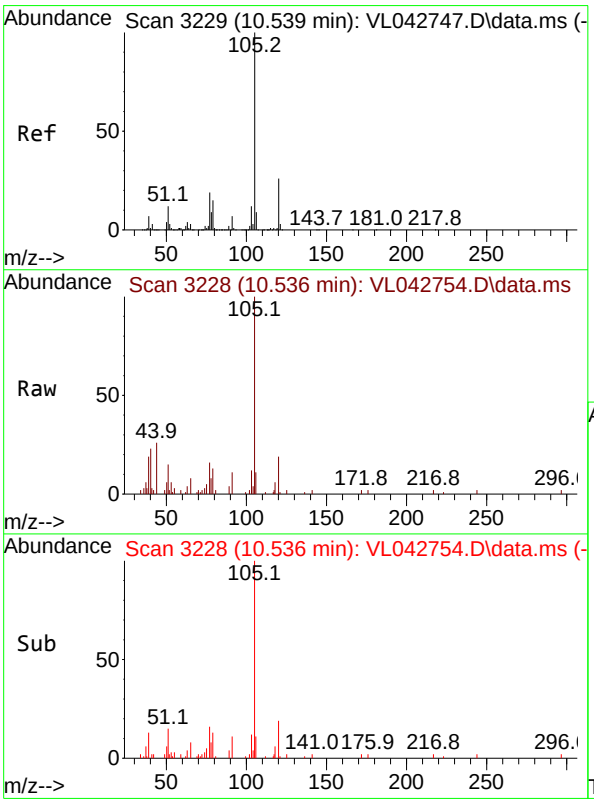
#61
Styrene
Concen: 0.039 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:104 Resp: 807

Ion	Ratio	Lower	Upper
104	100		
78	0.0	41.5	62.3#
103	91.7	37.5	56.3#

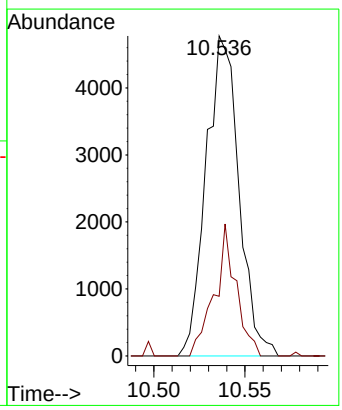


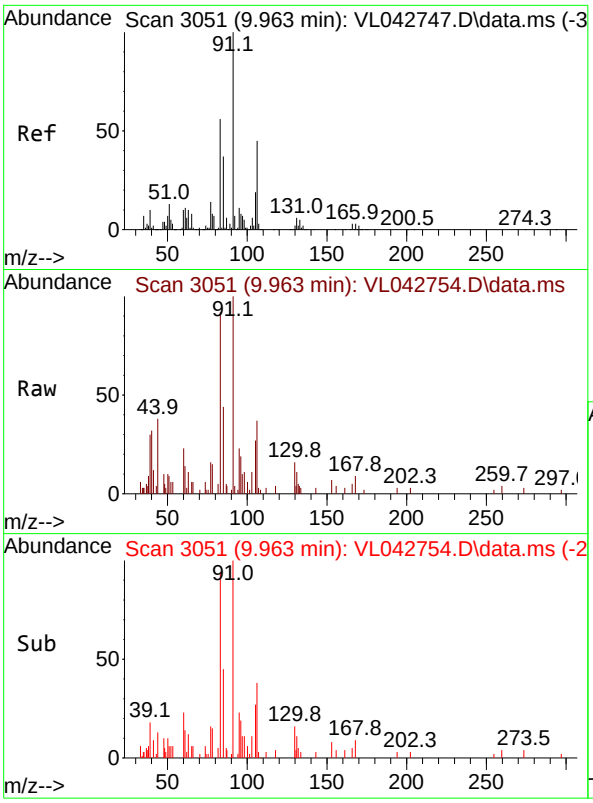


#62
Isopropylbenzene
Concen: 0.082 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:105 Resp: 5985

Ion	Ratio	Lower	Upper
105	100		
120	27.1	20.5	30.7



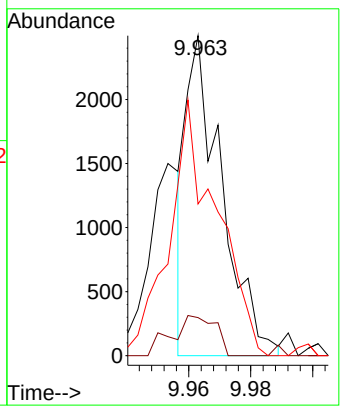


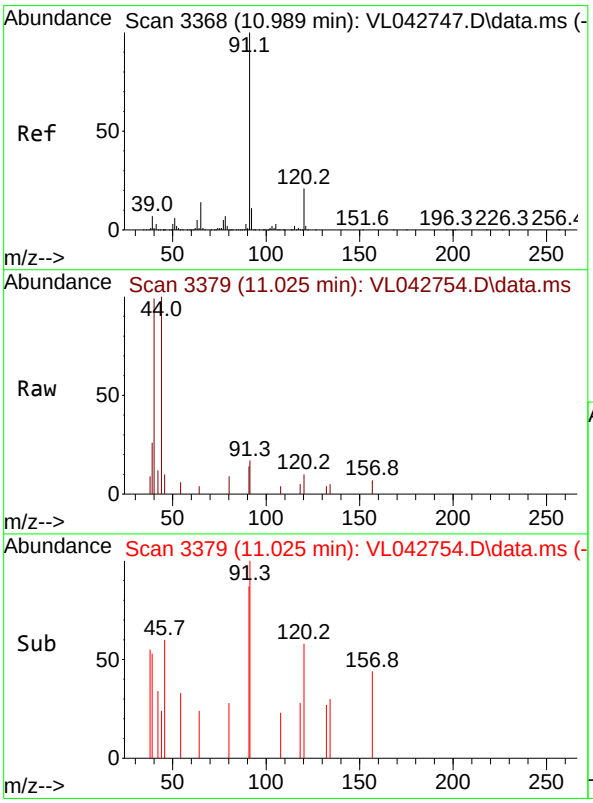
#63
1,1,2,2-Tetrachloroethane
Concen: 0.062 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 83 Resp: 1989

Ion	Ratio	Lower	Upper
83	100		
131	16.8	5.0	15.0#
85	109.7	32.6	97.7#

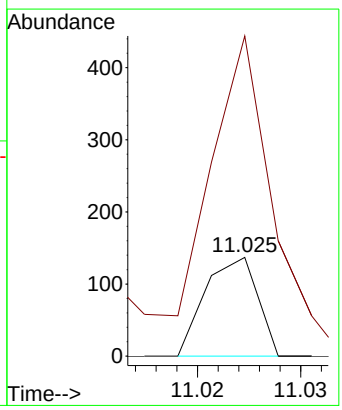


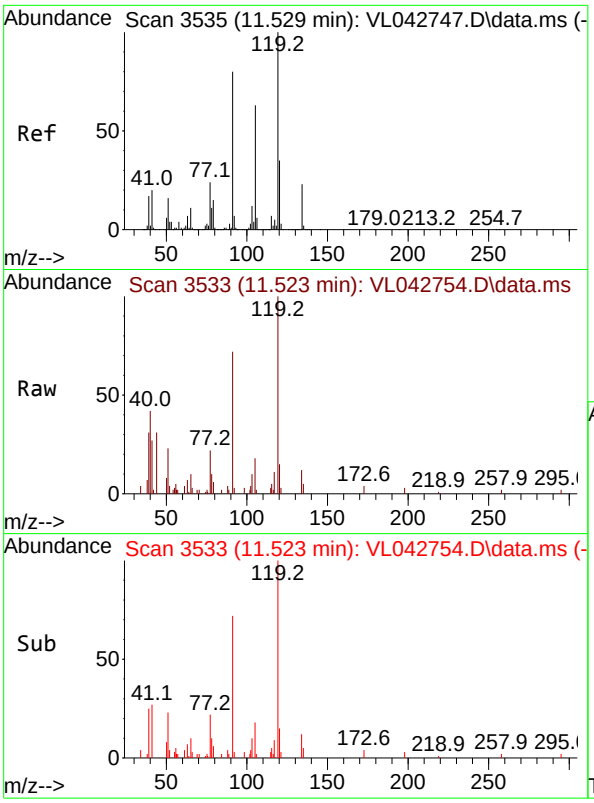


#64
n-propylbenzene
Concen: 0.003 ppbv
RT: 11.025 min Scan# 3379
Delta R.T. 0.036 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:120 Resp: 48

Ion	Ratio	Lower	Upper
120	100		
91	397.9	372.7	559.1



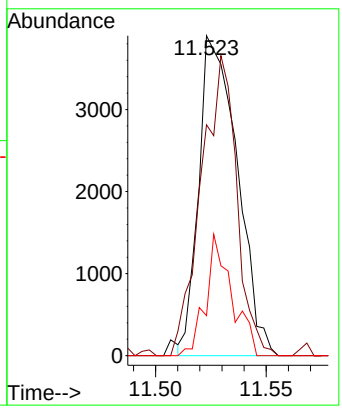


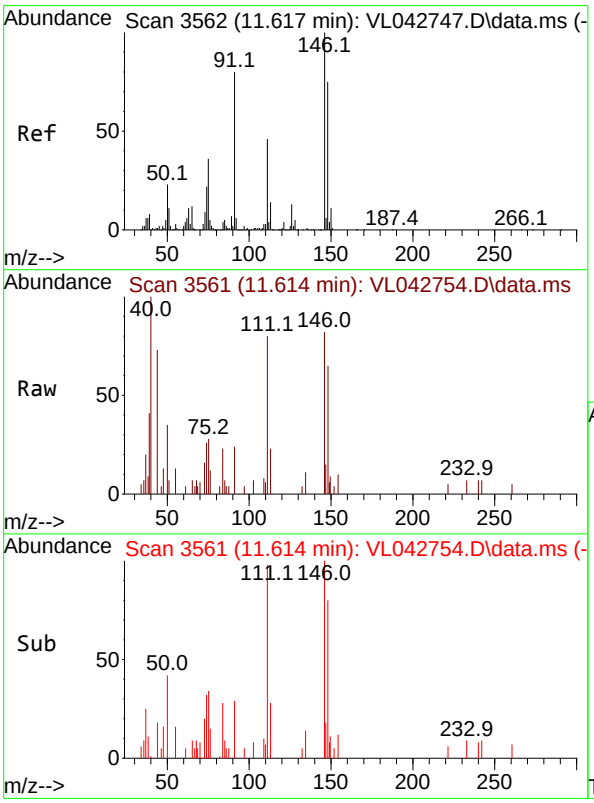
#65
tert-Butylbenzene
Concen: 0.072 ppbv
RT: 11.523 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:119 Resp: 4707

Ion	Ratio	Lower	Upper
119	100		
91	88.0	64.0	96.0
134	25.6	17.3	25.9

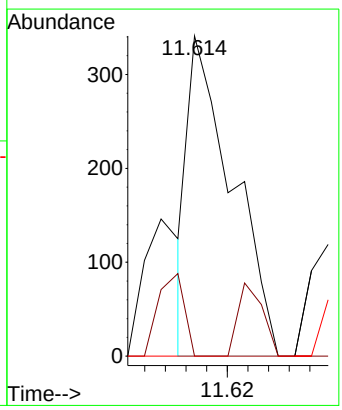


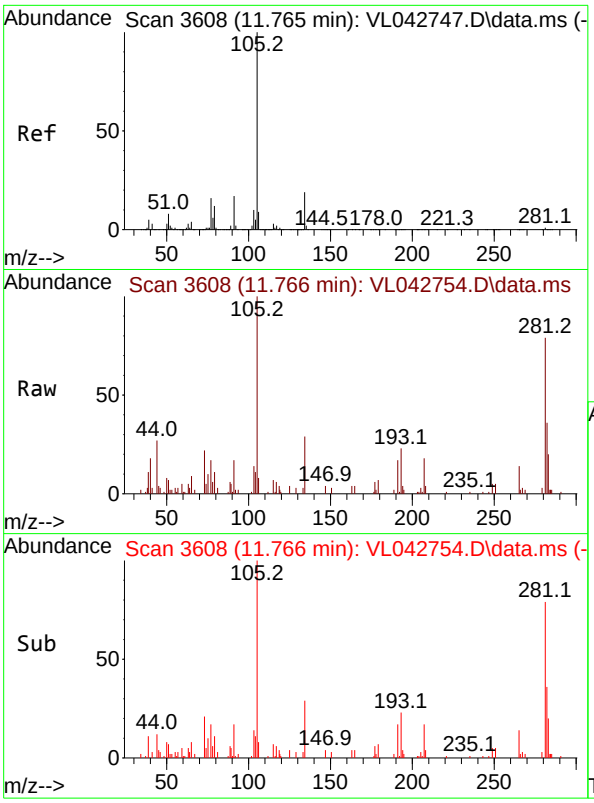


#66
Benzyl Chloride
Concen: 0.038 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 91 Resp: 204

Ion	Ratio	Lower	Upper
91	100		
126	27.9	14.4	21.6#
128	0.0	5.2	7.8#



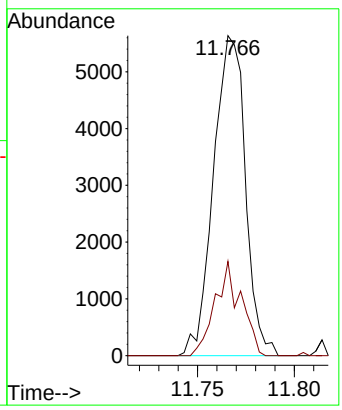


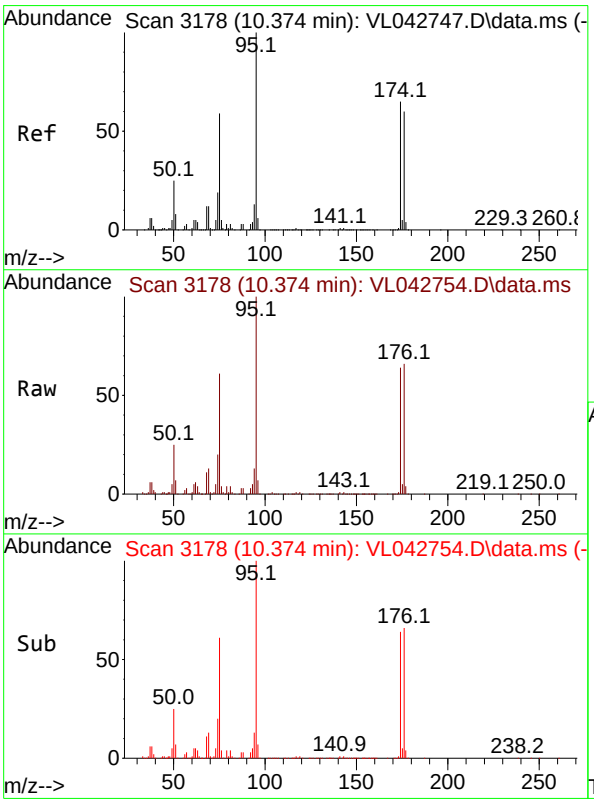
#67
sec-Butylbenzene
Concen: 0.070 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 6449

Ion	Ratio	Lower	Upper
105	100		
134	24.1	15.5	23.3#

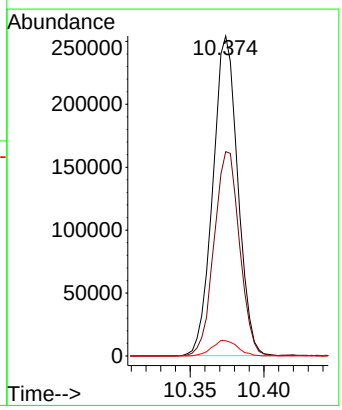


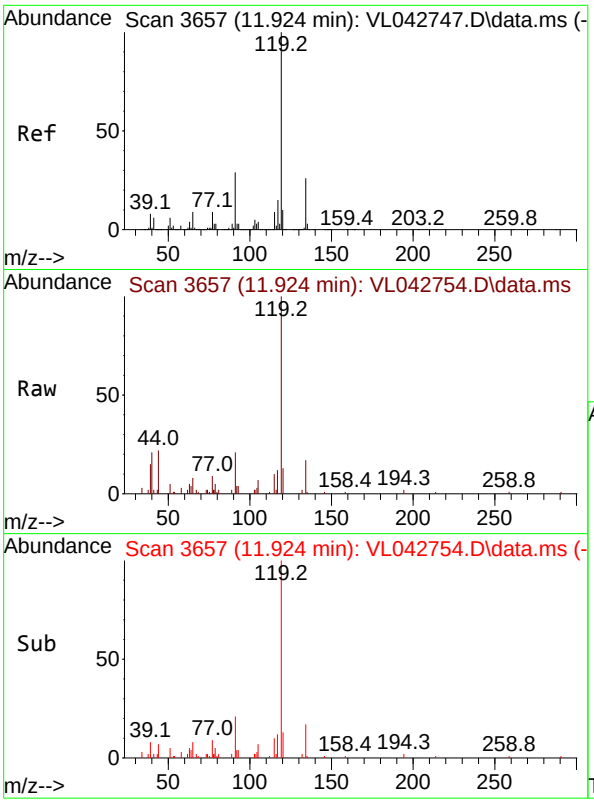


#68
1-Bromo-4-Fluorobenzene
Concen: 9.583 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 95 Resp: 298283

Ion	Ratio	Lower	Upper
95	100		
174	65.8	53.8	80.6
175	5.0	4.0	6.0



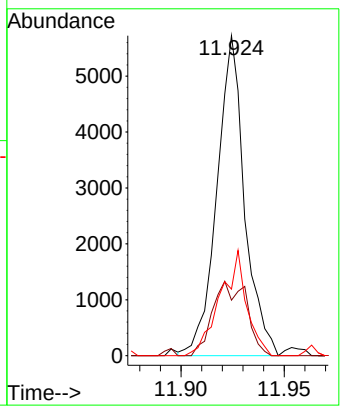


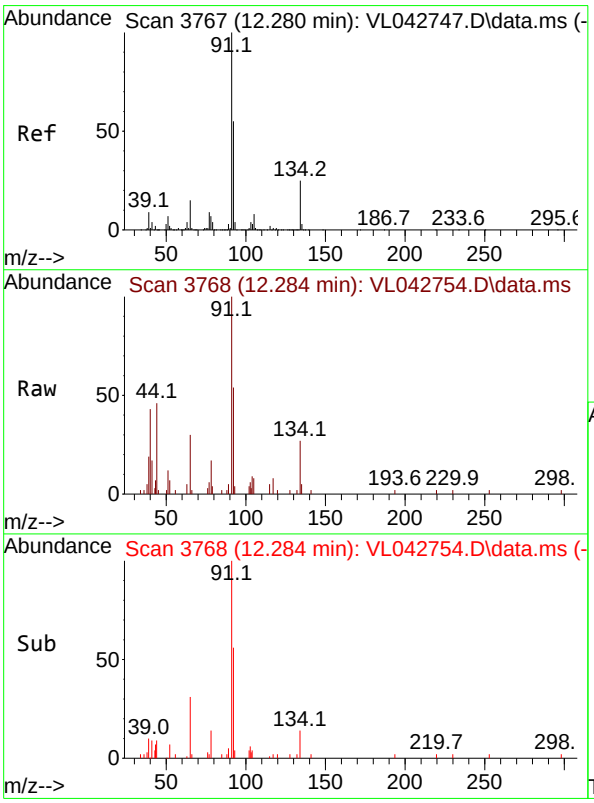
#69
p-Isopropyltoluene
Concen: 0.071 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:119 Resp: 5342

Ion	Ratio	Lower	Upper
119	100		
134	29.1	20.6	31.0
91	32.5	23.2	34.8

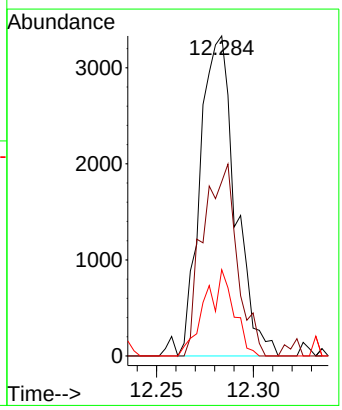


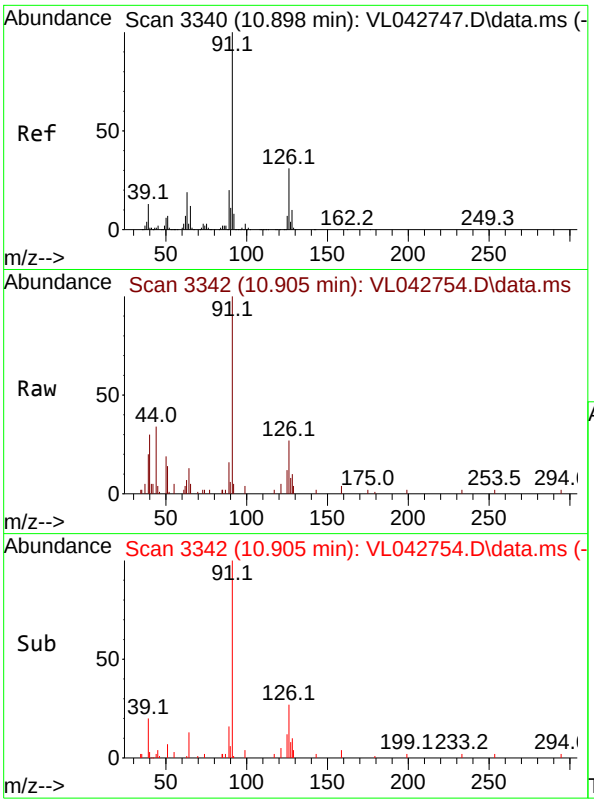


#70
n-Butylbenzene
Concen: 0.058 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 91 Resp: 4198

Ion	Ratio	Lower	Upper
91	100		
92	60.2	43.4	65.2
134	23.3	19.6	29.4



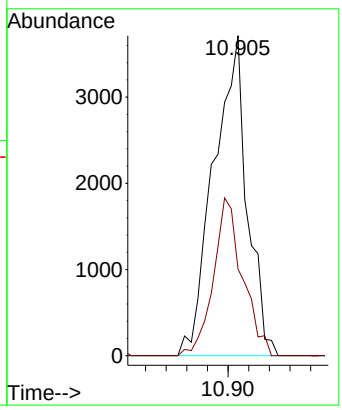


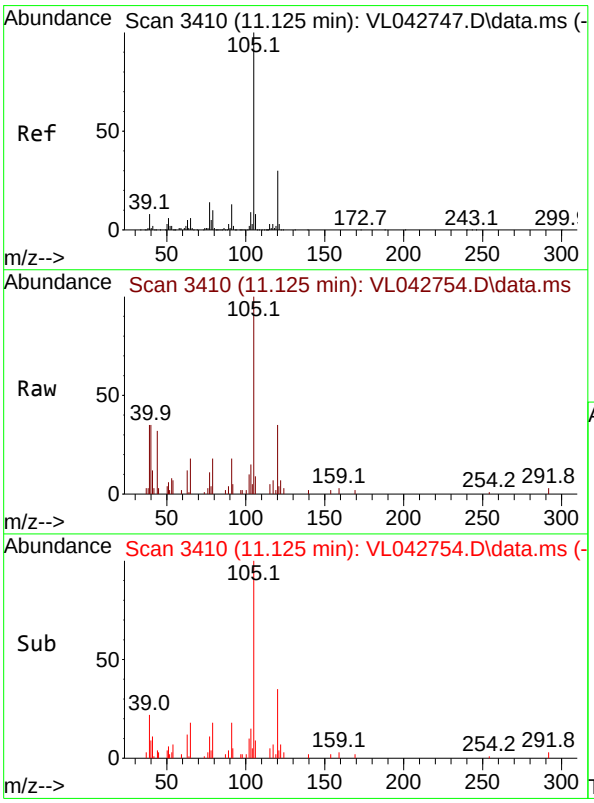
#71
2-Chlorotoluene
Concen: 0.075 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 4180

Ion	Ratio	Lower	Upper
91	100		
126	42.8	12.0	48.2

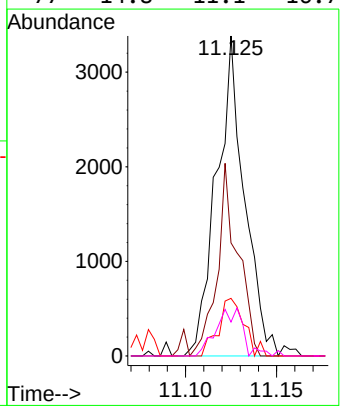


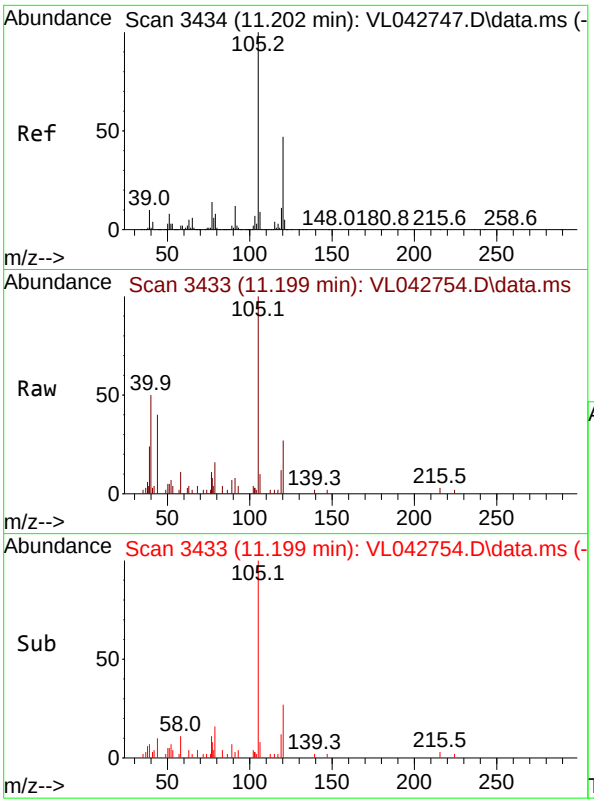


#72
4-Ethyltoluene
Concen: 0.061 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:105 Resp: 3597

Ion	Ratio	Lower	Upper
105	100		
120	46.2	24.4	36.6#
91	16.8	10.6	15.8#
77	14.8	11.1	16.7



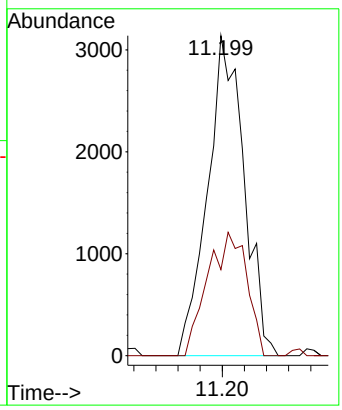


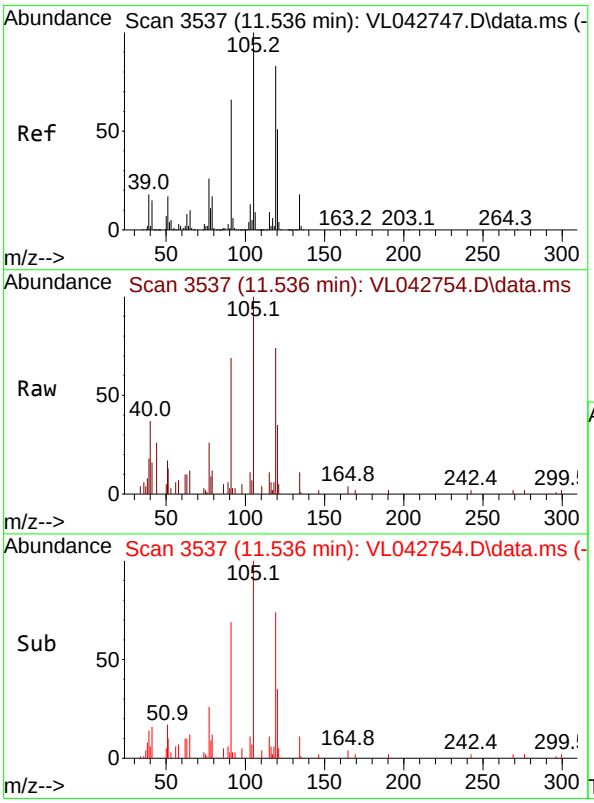
#73
1,3,5-Trimethylbenzene
Concen: 0.074 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 3603

Ion	Ratio	Lower	Upper
105	100		
120	26.9	37.8	56.8#

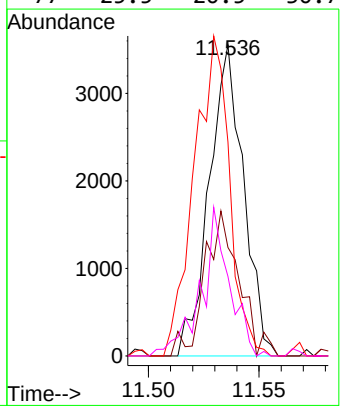


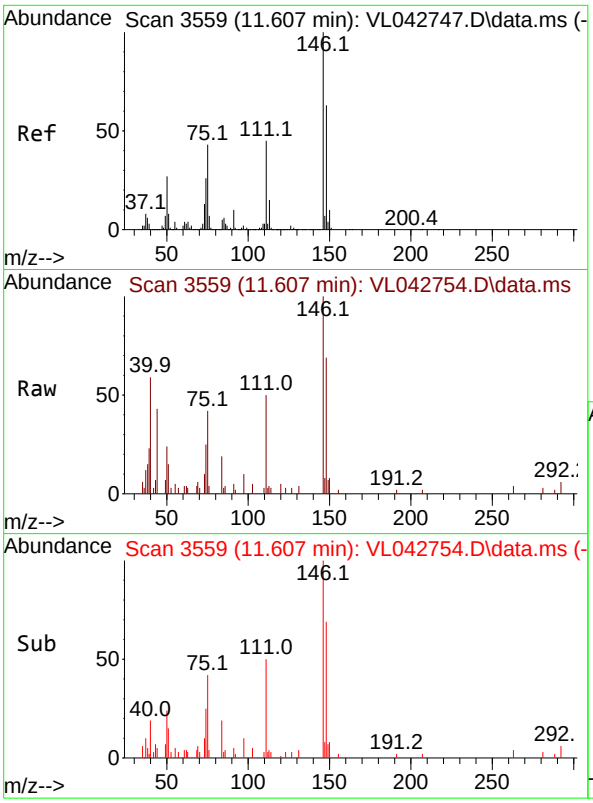


#74
1,2,4-Trimethylbenzene
Concen: 0.072 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:105 Resp: 3826

Ion	Ratio	Lower	Upper
105	100		
120	34.8	40.8	61.2#
91	68.7	53.0	79.4
77	25.5	20.5	30.7



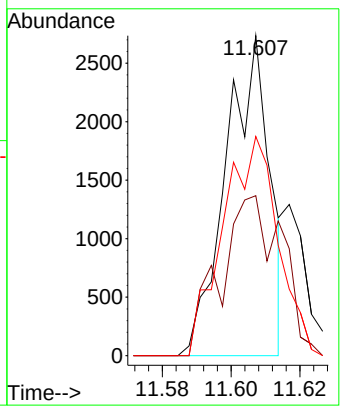


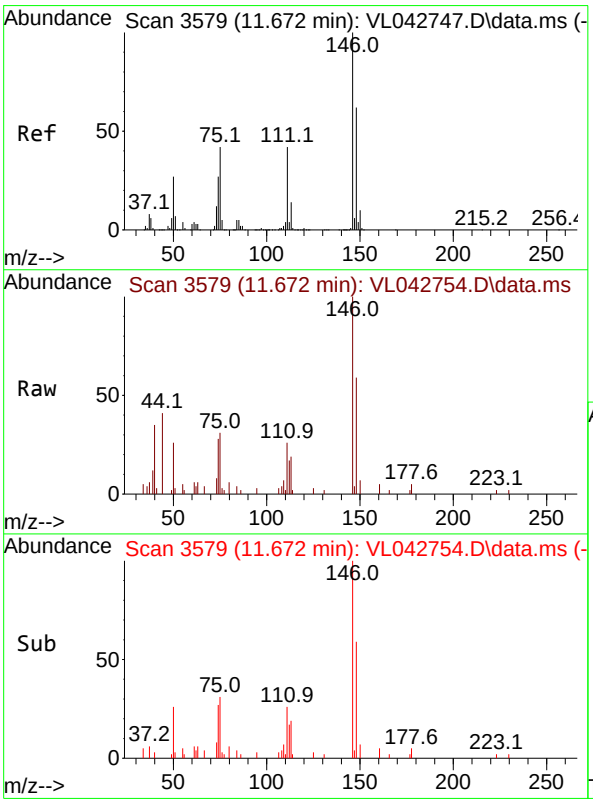
#75
1,3-Dichlorobenzene
Concen: 0.065 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:146 Resp: 2417

Ion	Ratio	Lower	Upper
146	100		
111	70.0	22.7	68.0#
148	86.3	31.9	95.5

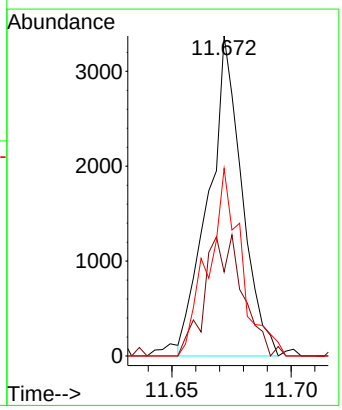


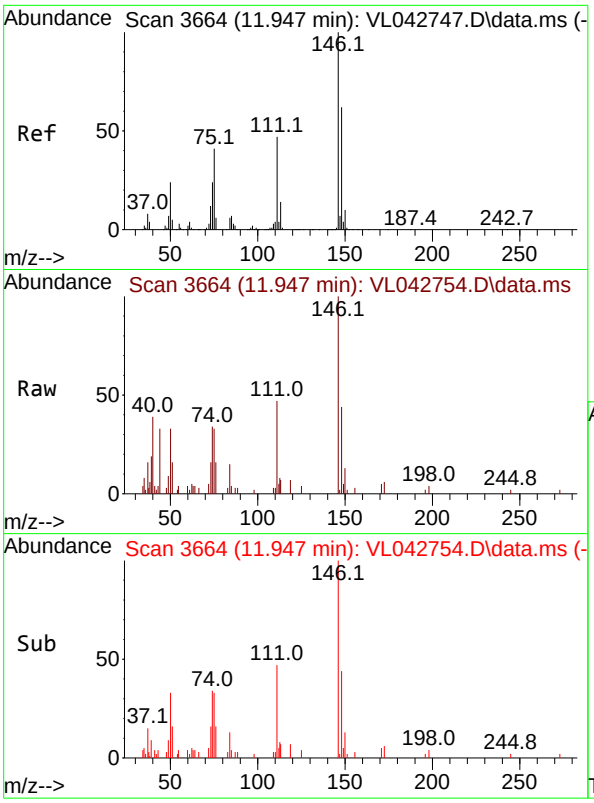


#76
1,4-Dichlorobenzene
Concen: 0.090 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:146 Resp: 3265

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.4	64.2
148	58.6	32.1	96.3



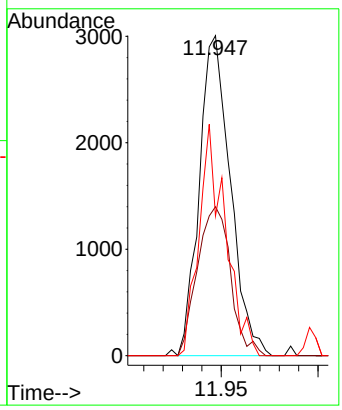


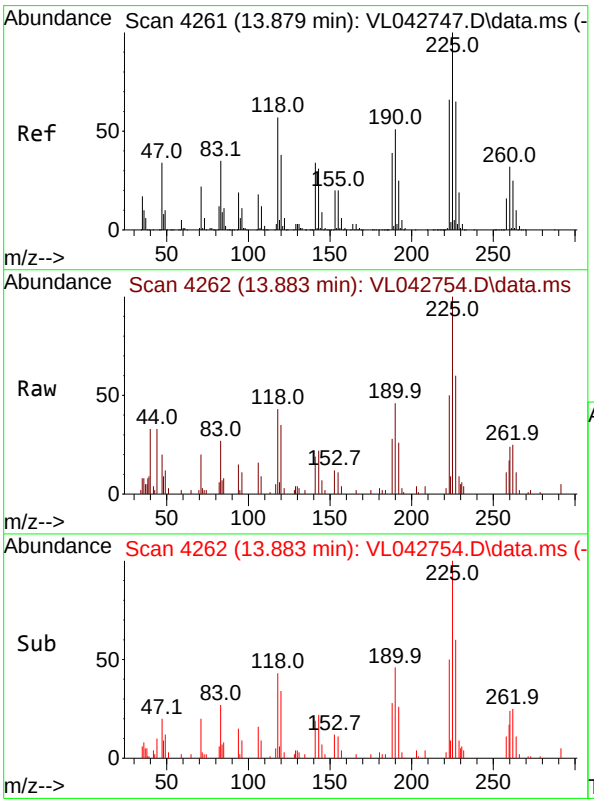
#77
1,2-Dichlorobenzene
Concen: 0.092 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:146 Resp: 3354

Ion	Ratio	Lower	Upper
146	100		
111	49.5	23.7	71.1
148	61.6	32.6	97.7

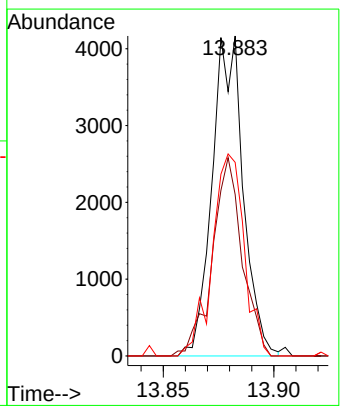


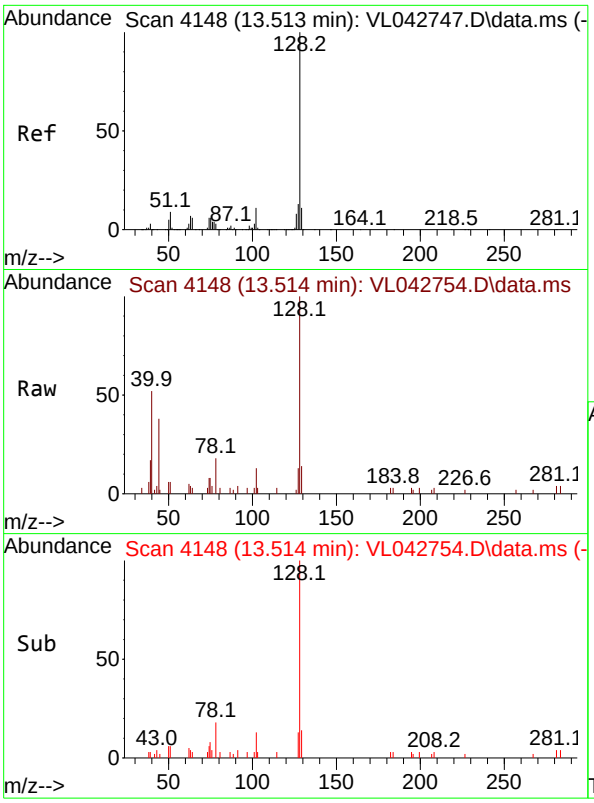


#78
Hexachloro-1,3-Butadiene
Concen: 0.123 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:225 Resp: 4077

Ion	Ratio	Lower	Upper
225	100		
223	59.6	50.7	76.1
227	64.7	50.5	75.7



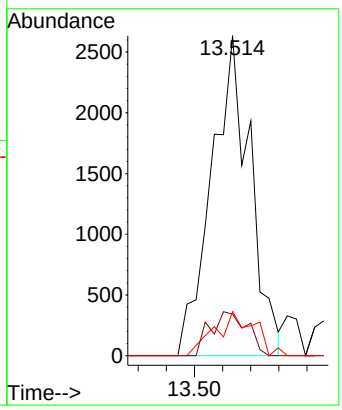


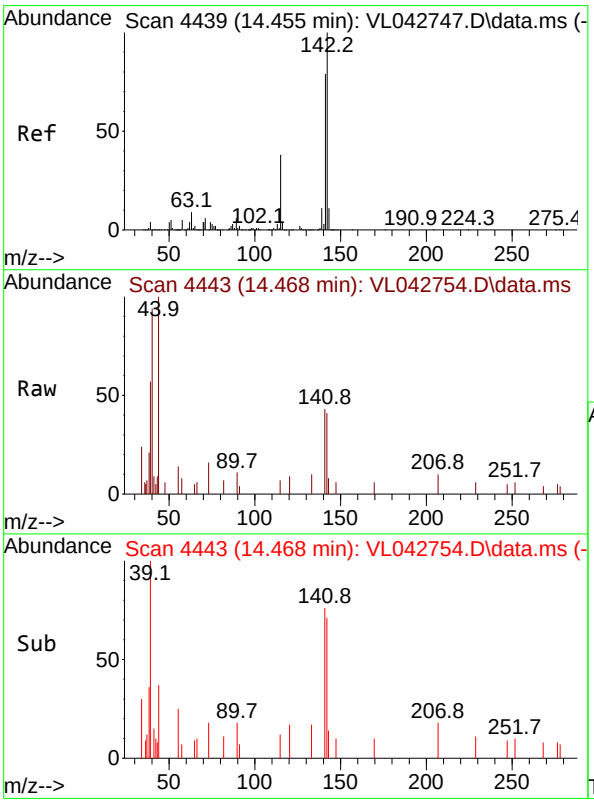
#79
Naphthalene
Concen: 0.475 ppbv
RT: 13.514 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:128 Resp: 2509

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	13.7	8.6	13.0#

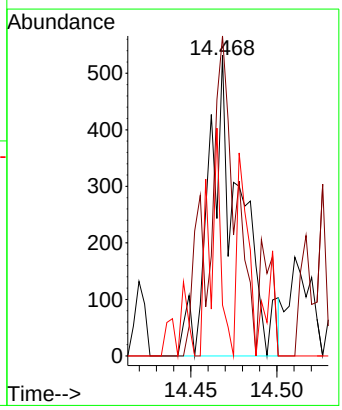


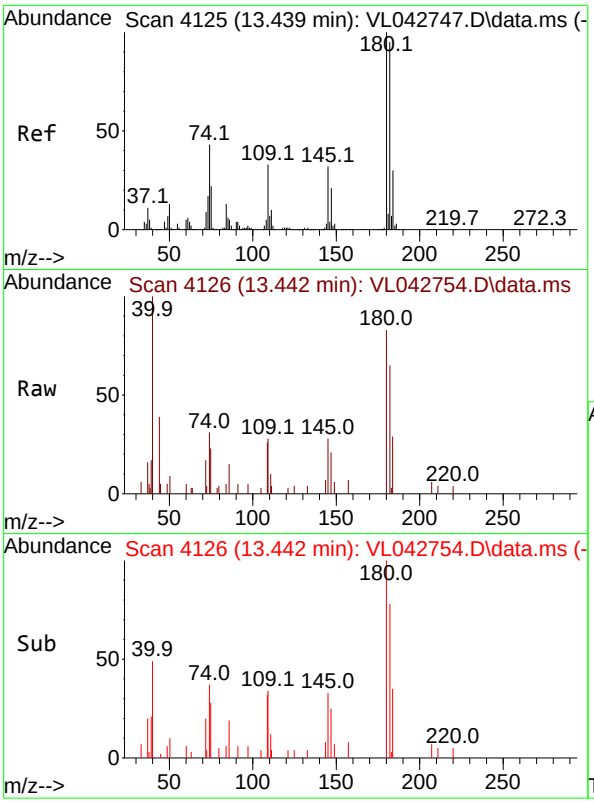


#80
Naphthalene,2-methyl-
Concen: 1.147 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.013 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:142 Resp: 676

Ion	Ratio	Lower	Upper
142	100		
141	103.7	65.8	98.8#
115	65.2	31.2	46.8#



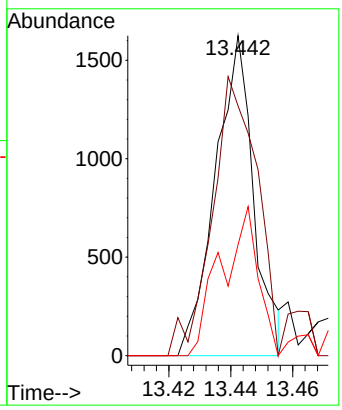


#81
1,2,4-Trichlorobenzene
Concen: 0.475 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:180 Resp: 1396

Ion	Ratio	Lower	Upper
180	100		
182	110.8	76.2	114.2
184	53.7	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042755.D
Acq On : 23 Jul 2025 14:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Quant Time: Jul 24 05:28:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	148064	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	421747	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	380539	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	313324	10.397	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	185425	9.472	ppbv	99
3) Chlorodifluoromethane	1.473	51	242908	9.525	ppbv	99
4) Chloromethane	1.531	50	72221	9.119	ppbv	98
5) Vinyl Chloride	1.577	62	64673	8.265	ppbv	100
6) Bromomethane	1.664	94	27096	8.957	ppbv	99
7) Chloroethane	1.700	64	26125	8.641	ppbv	99
8) Dichlorotetrafluoroethane	1.551	85	148833	9.244	ppbv	100
9) Propene	1.479	41	86343	9.316	ppbv	95
10) Heptane	4.965	43	247934	9.921	ppbv	99
11) Trichlorofluoromethane	1.874	101	179643	8.902	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.136	101	138363	9.023	ppbv	98
13) Ethanol	1.719	45	7690	10.243	ppbv	92
14) Bromoethene	1.777	108	48972	9.020	ppbv	98
15) Acetone	1.832	43	149742	7.324	ppbv	99
16) 1,3-Butadiene	1.606	39	79112	9.072	ppbv	98
17) tert-Butyl alcohol	2.036	59	170096	9.225	ppbv	98
18) 1,1-Dichloroethene	2.030	96	62149	8.970	ppbv	96
19) Isopropyl Alcohol	1.881	45	97844	9.006	ppbv	99
20) Methylene Chloride	2.056	84	53608	8.320	ppbv	98
21) Allyl Chloride	2.091	41	118958	9.441	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	69482	9.322	ppbv	97
23) Vinyl Acetate	2.457	43	261938	10.568	ppbv	98
24) 1,1-Dichloroethane	2.402	63	137586	8.993	ppbv	99
25) Ethyl Acetate	2.829	43	444208	9.816	ppbv	99
26) Hexane	2.819	57	190523	9.597	ppbv	98
27) Carbon Disulfide	2.146	76	164040	9.652	ppbv	99
28) Methyl tert-Butyl Ether	2.434	73	85480	9.114	ppbv	98
29) Chloroform	2.842	83	295808	9.643	ppbv	99
30) Cyclohexane	3.849	84	164554	9.773	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	199970	9.802	ppbv	99
32) 1,1,1-Trichloroethane	3.360	97	293074	9.172	ppbv	100
34) 2-Butanone	2.551	43	294837	9.869	ppbv	99
35) Carbon Tetrachloride	3.755	117	310129	9.900	ppbv	96
36) Benzene	3.648	78	393085	9.834	ppbv	99
37) 1,2-Dichloroethane	3.211	62	238249	9.895	ppbv	100
38) Trichloroethene	4.538	130	178600	9.301	ppbv	97
39) 1,2-Dichloropropane	4.305	63	141316	9.578	ppbv	95
40) 1,4-Dioxane	4.570	88	65204	9.481	ppbv #	94
41) Tetrahydrofuran	3.046	42	158159	10.404	ppbv	99
42) Bromodichloromethane	4.477	83	321549	10.254	ppbv	98
43) Methyl Methacrylate	4.865	69	152551	10.738	ppbv	97
44) 2,2,4-Trimethylpentane	4.629	57	649720	9.973	ppbv	99
45) t-1,3-Dichloropropene	6.402	75	169563	10.643	ppbv	97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042755.D
Acq On : 23 Jul 2025 14:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Quant Time: Jul 24 05:28:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

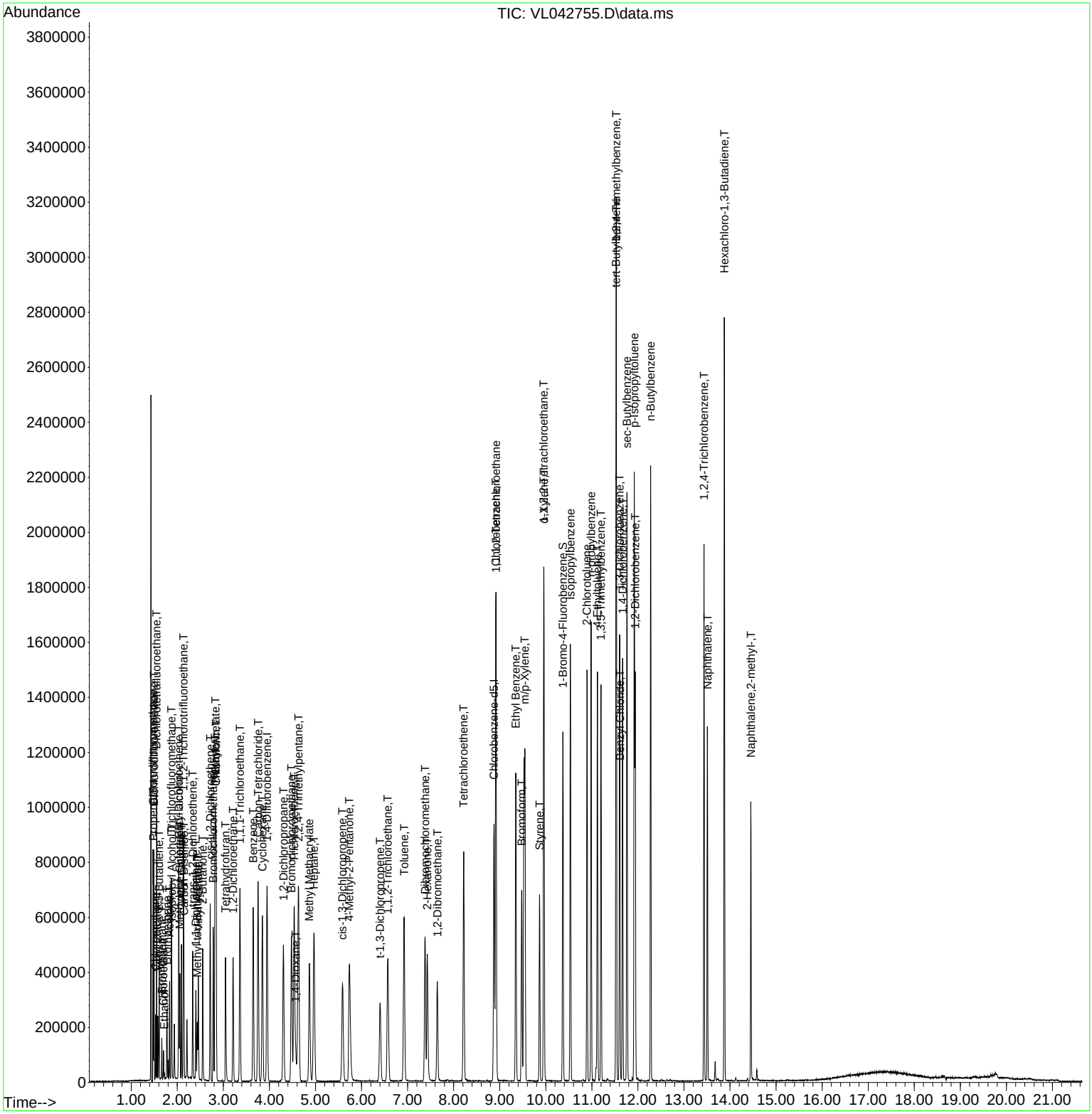
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	215596	10.679	ppbv		97
47) 1,1,2-Trichloroethane	6.571	97	85637	5.445	ppbv		97
48) Dibromochloromethane	7.380	129	261174	10.460	ppbv		98
49) Bromoform	9.477	173	233573	10.729	ppbv		99
50) 4-Methyl-2-Pentanone	5.736	43	396506	10.303	ppbv		100
51) 2-Hexanone	7.428	43	320740	11.029	ppbv	#	100
52) Tetrachloroethene	8.218	164	151810	9.163	ppbv		98
53) Toluene	6.927	91	441829	10.294	ppbv		100
54) 1,2-Dibromoethane	7.645	107	229563	10.331	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.920	131	193089	9.759	ppbv		99
57) Chlorobenzene	8.914	112	354412	9.623	ppbv		96
58) Ethyl Benzene	9.348	91	631247	10.504	ppbv		99
59) m/p-Xylene	9.545	91	500367	10.418	ppbv	#	32
60) o-Xylene	9.959	91	503849	10.499	ppbv		99
61) Styrene	9.866	104	225799	11.185	ppbv		99
62) Isopropylbenzene	10.536	105	736044	10.398	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.956	83	287775	9.340	ppbv		99
64) n-propylbenzene	10.982	120	193034	10.460	ppbv		98
65) tert-Butylbenzene	11.526	119	660966	10.512	ppbv		99
66) Benzyl Chloride	11.610	91	60055	11.634	ppbv		99
67) sec-Butylbenzene	11.762	105	914046	10.221	ppbv		100
69) p-Isopropyltoluene	11.921	119	778601	10.677	ppbv		99
70) n-Butylbenzene	12.277	91	788734	11.197	ppbv		99
71) 2-Chlorotoluene	10.895	91	563193	10.376	ppbv		99
72) 4-Ethyltoluene	11.121	105	617355	10.772	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	516735	10.951	ppbv		100
74) 1,2,4-Trimethylbenzene	11.532	105	567186	11.017	ppbv		98
75) 1,3-Dichlorobenzene	11.604	146	366855	10.165	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	364937	10.333	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	348999	9.839	ppbv		99
78) Hexachloro-1,3-Butadiene	13.876	225	291861	9.091	ppbv		99
79) Naphthalene	13.510	128	578563	10.342	ppbv		99
80) Naphthalene,2-methyl-	14.452	142	277798	9.951	ppbv		99
81) 1,2,4-Trichlorobenzene	13.436	180	319897	10.181	ppbv		100

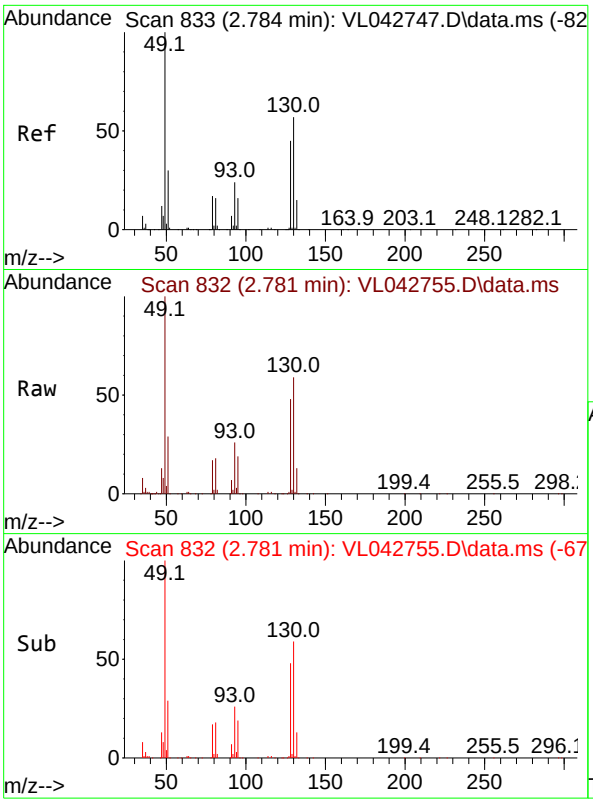
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042755.D
Acq On : 23 Jul 2025 14:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Quant Time: Jul 24 05:28:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



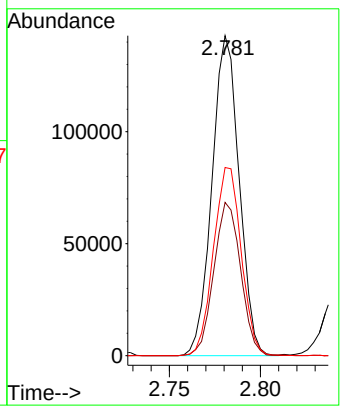


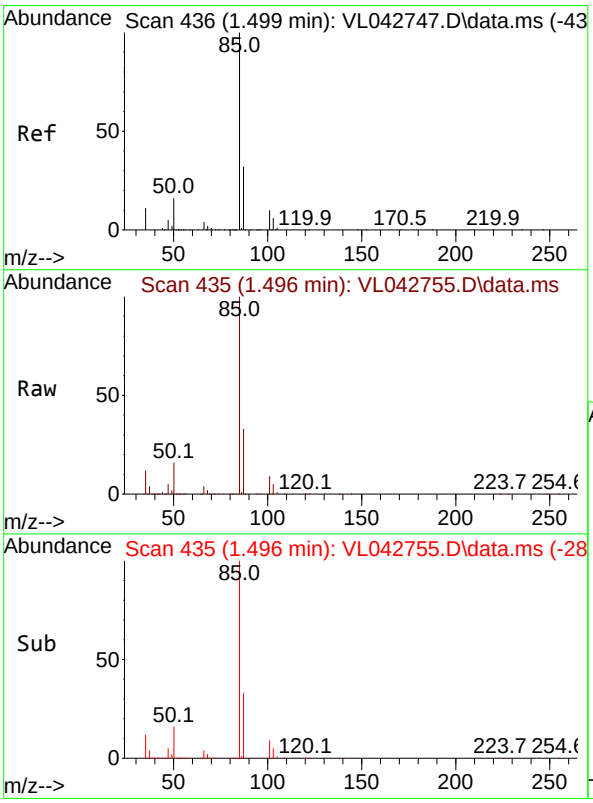
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 49 Resp: 148064

Ion	Ratio	Lower	Upper
49	100		
128	47.4	23.6	71.0
130	60.2	30.3	90.8

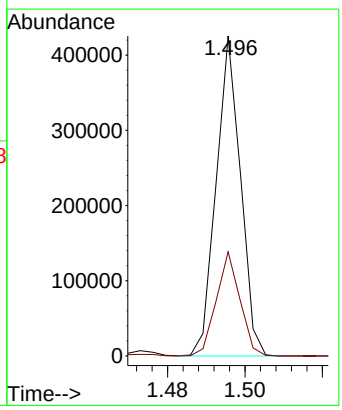


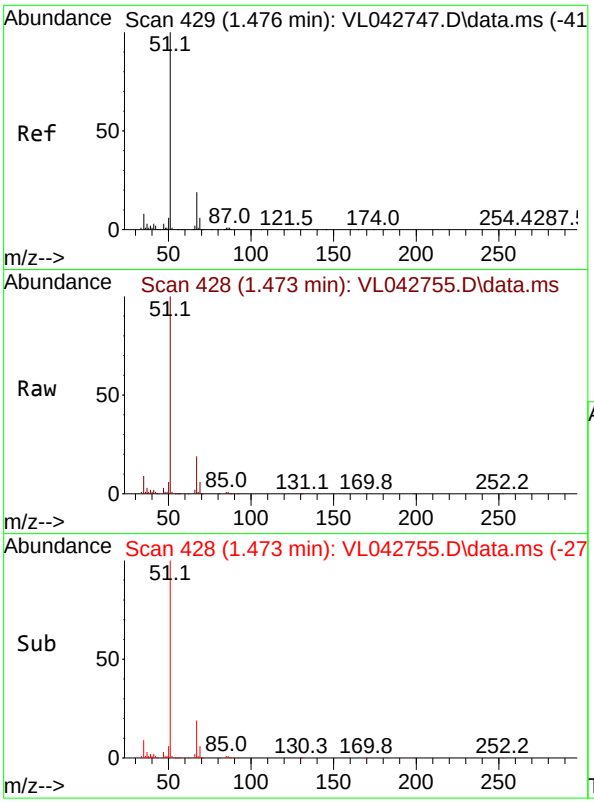


#2
Dichlorodifluoromethane
Concen: 9.472 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 85 Resp: 185425

Ion	Ratio	Lower	Upper
85	100		
87	32.6	25.4	38.2



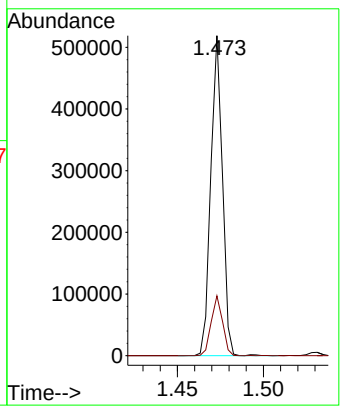


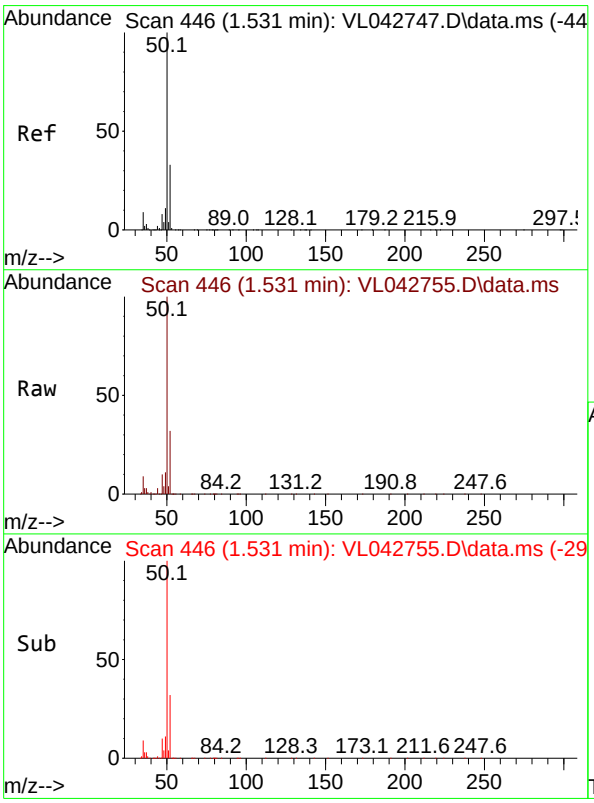
#3
Chlorodifluoromethane
Concen: 9.525 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 51 Resp: 242908

Ion	Ratio	Lower	Upper
51	100		
67	18.4	15.0	22.6

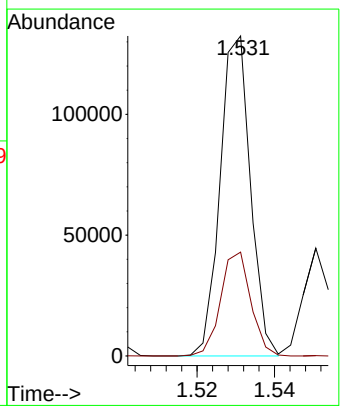


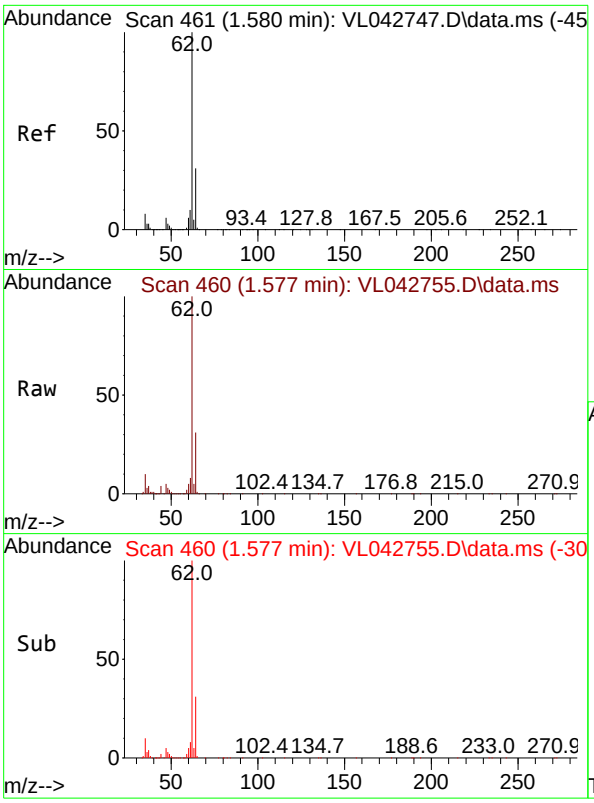


#4
Chloromethane
Concen: 9.119 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 50 Resp: 72221

Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.6	40.0



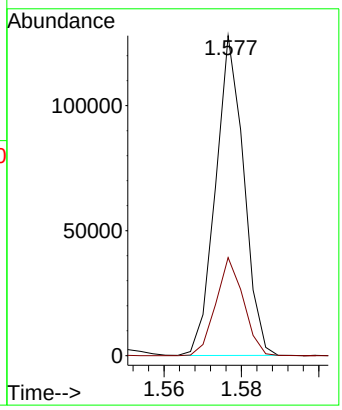


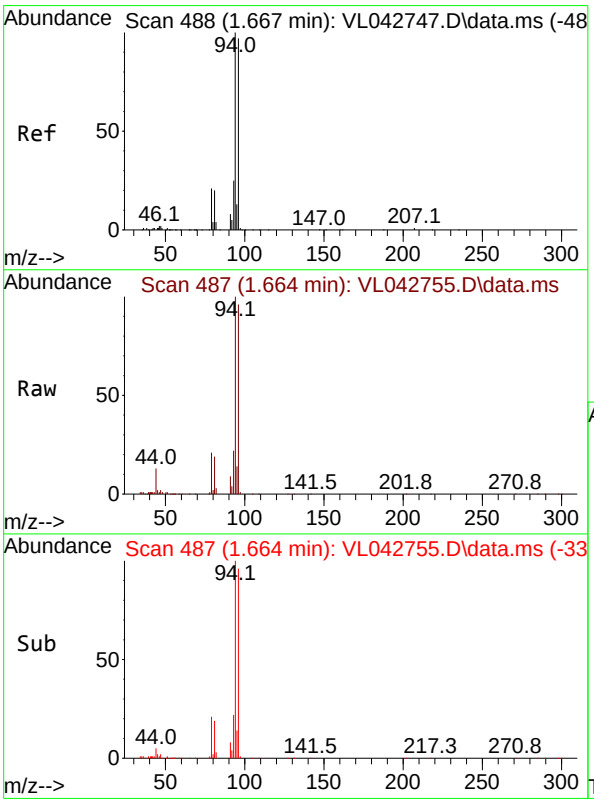
#5
Vinyl Chloride
Concen: 8.265 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 62 Resp: 64673

Ion	Ratio	Lower	Upper
62	100		
64	30.7	24.5	36.7

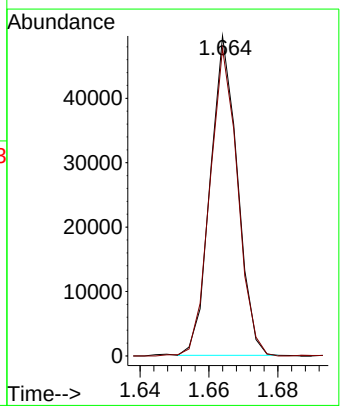


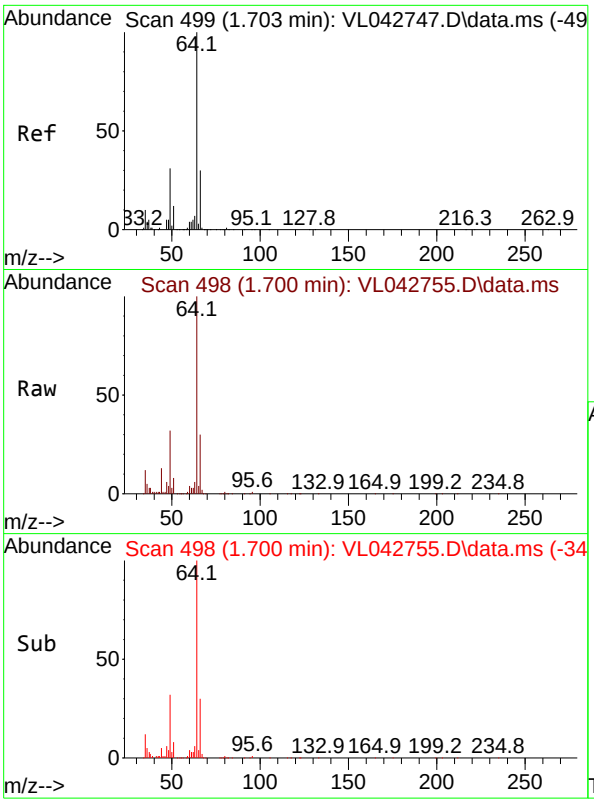


#6
Bromomethane
Concen: 8.957 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 94 Resp: 27096

Ion	Ratio	Lower	Upper
94	100		
96	96.3	77.6	116.4



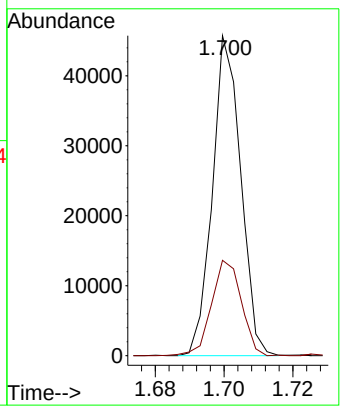


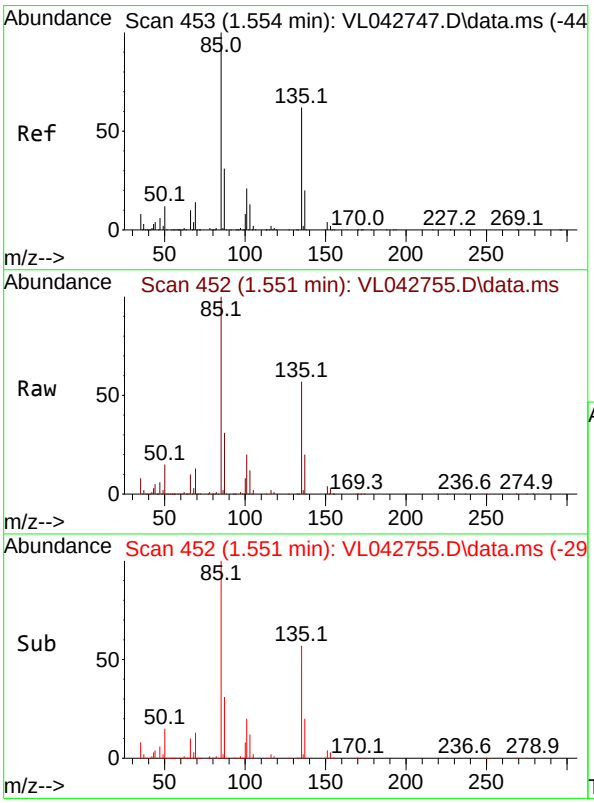
#7
Chloroethane
Concen: 8.641 ppbv
RT: 1.700 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 64 Resp: 26125

Ion	Ratio	Lower	Upper
64	100		
66	29.8	24.1	36.1

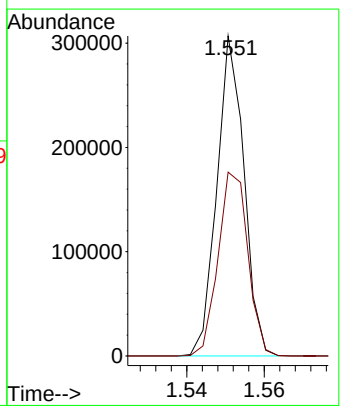


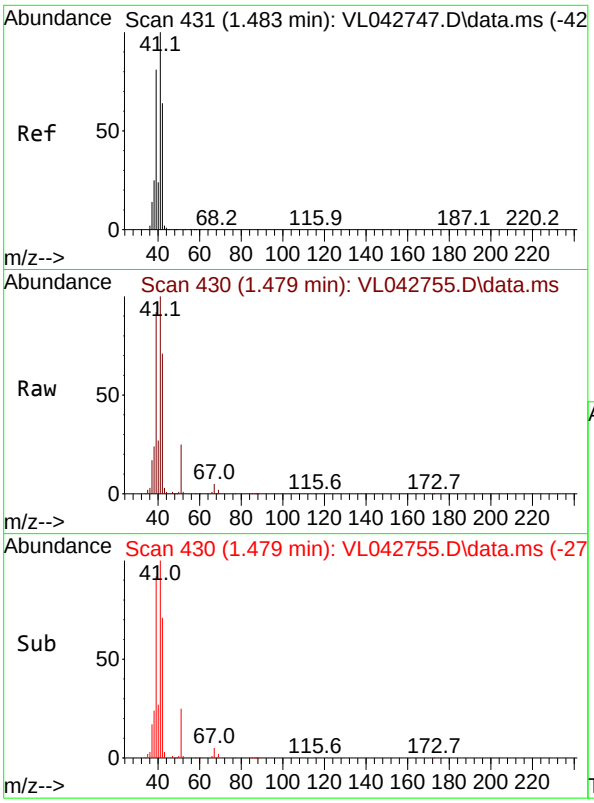


#8
Dichlorotetrafluoroethane
Concen: 9.244 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 85 Resp: 148833

Ion	Ratio	Lower	Upper
85	100		
135	63.6	50.6	76.0



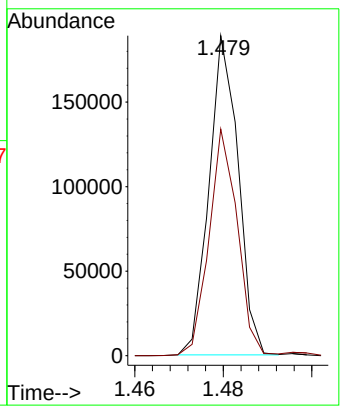


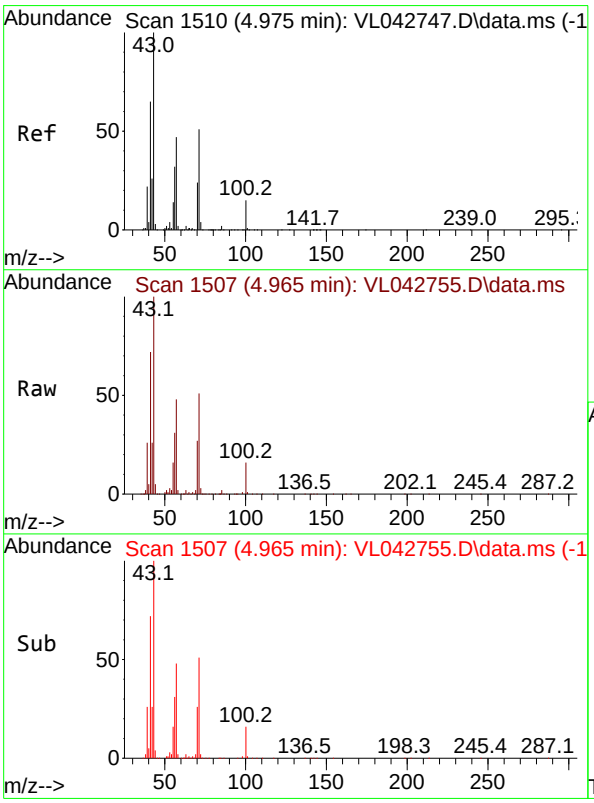
#9
Propene
Concen: 9.316 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 41 Resp: 86343

Ion	Ratio	Lower	Upper
41	100		
42	70.7	53.2	79.8

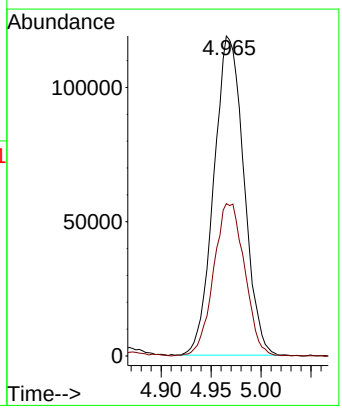


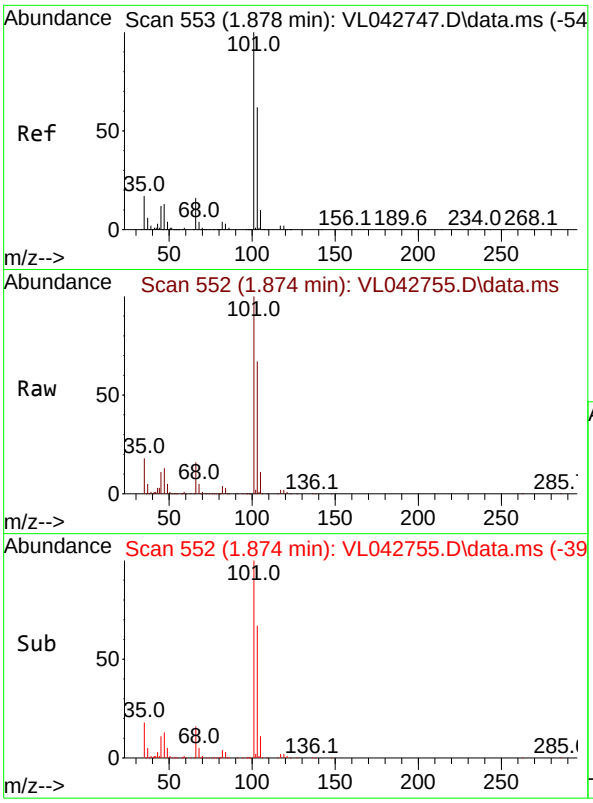


#10
Heptane
Concen: 9.921 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 43 Resp: 247934

Ion	Ratio	Lower	Upper
43	100		
57	49.5	39.9	59.9



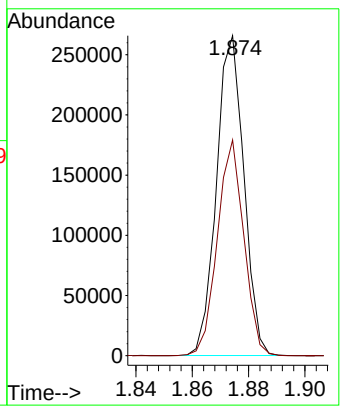


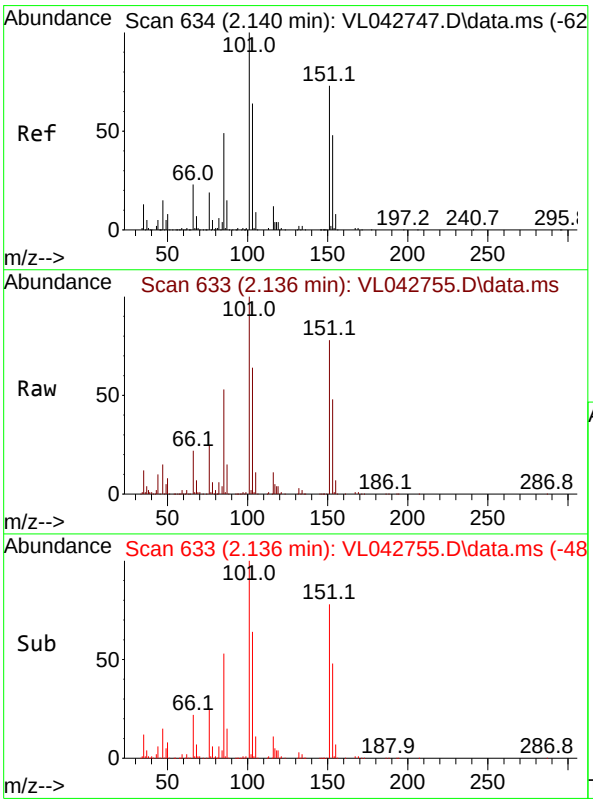
#11
Trichlorofluoromethane
Concen: 8.902 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:101 Resp: 179643

Ion	Ratio	Lower	Upper
101	100		
103	67.4	49.6	74.4

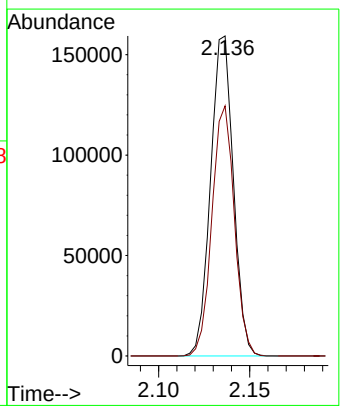


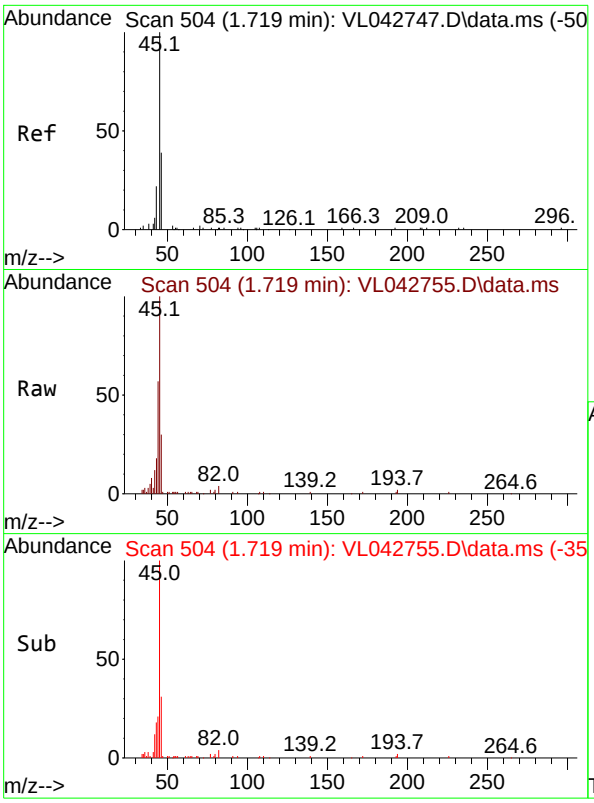


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.023 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:101 Resp: 138363

Ion	Ratio	Lower	Upper
101	100		
151	76.9	60.5	90.7



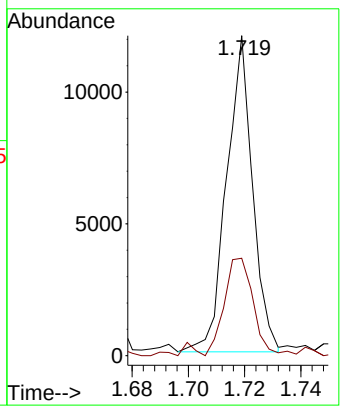


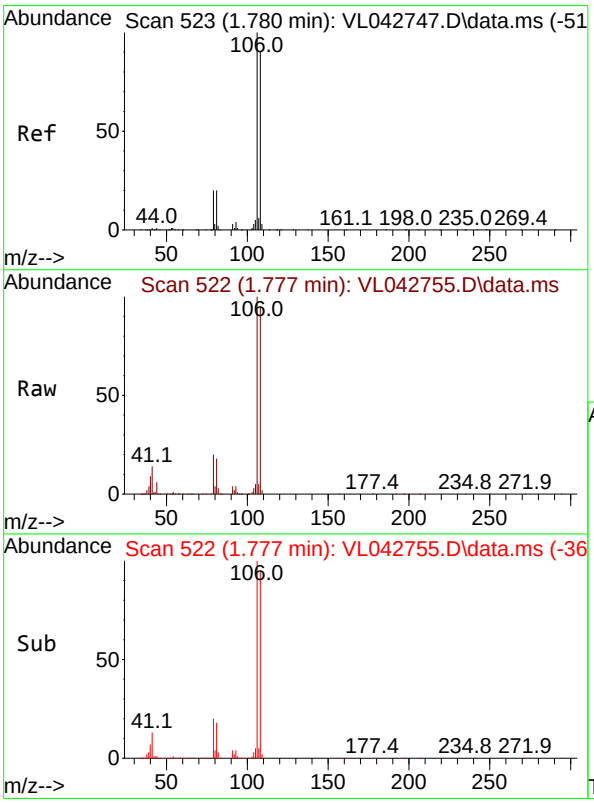
#13
Ethanol
Concen: 10.243 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 45 Resp: 7690

Ion	Ratio	Lower	Upper
45	100		
46	39.7	17.8	71.4

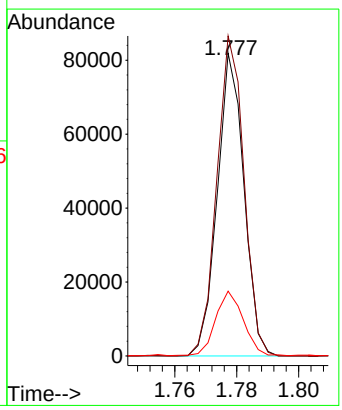


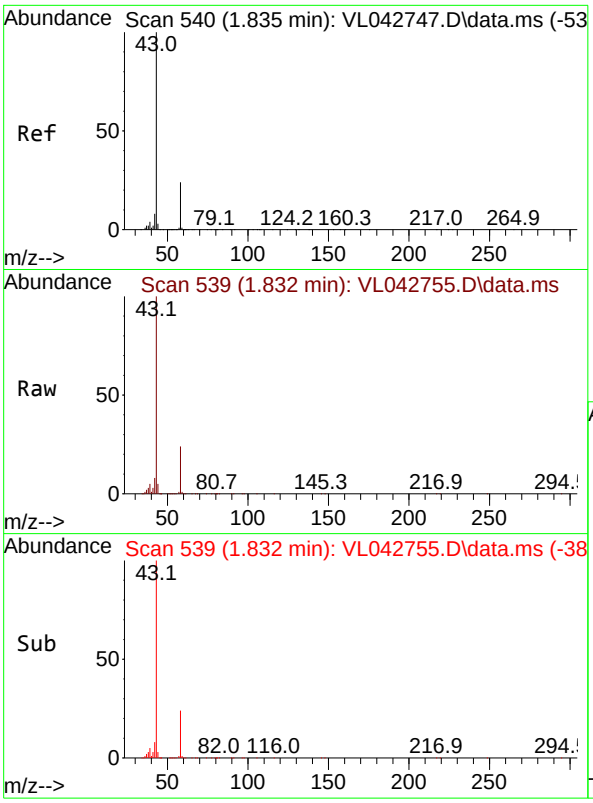


#14
Bromoethene
Concen: 9.020 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:108 Resp: 48972

Ion	Ratio	Lower	Upper
108	100		
106	107.5	84.7	127.1
79	23.5	17.4	26.2



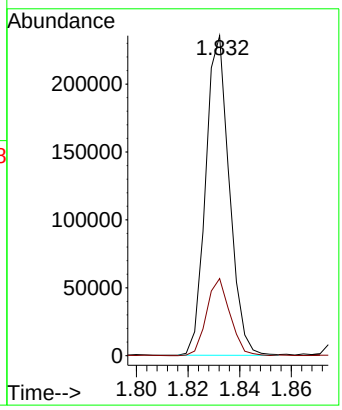


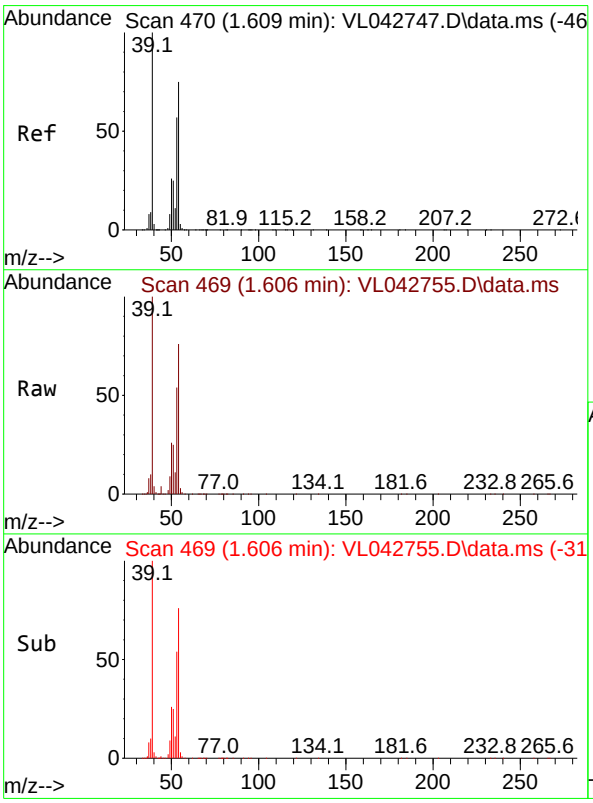
#15
Acetone
Concen: 7.324 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 43 Resp: 149742

Ion	Ratio	Lower	Upper
43	100		
58	24.2	19.8	29.8

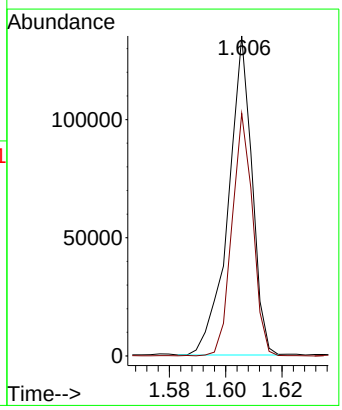


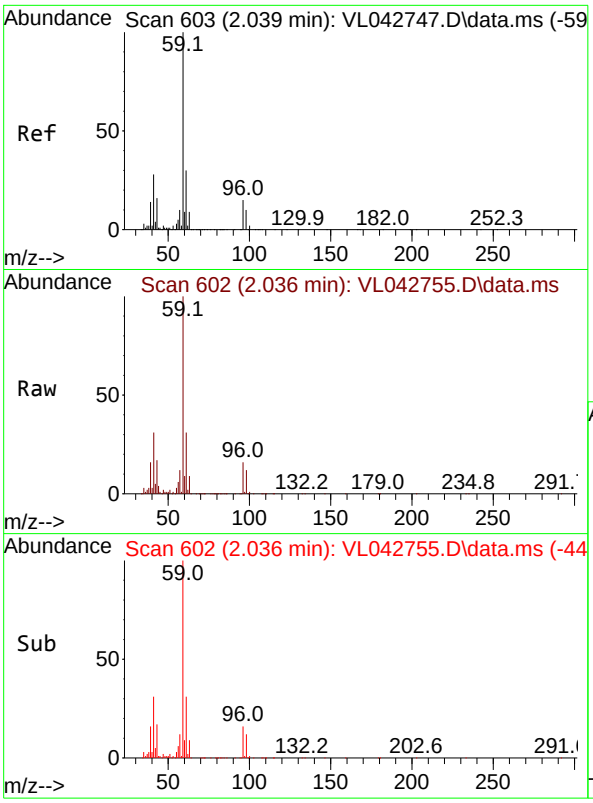


#16
1,3-Butadiene
Concen: 9.072 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 39 Resp: 79112

Ion	Ratio	Lower	Upper
39	100		
54	66.6	54.5	81.7



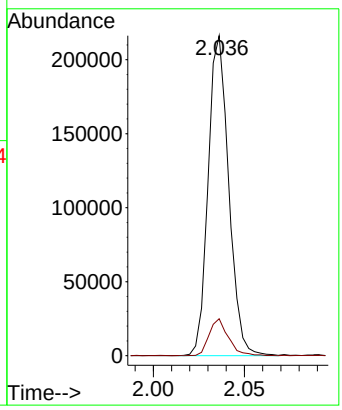


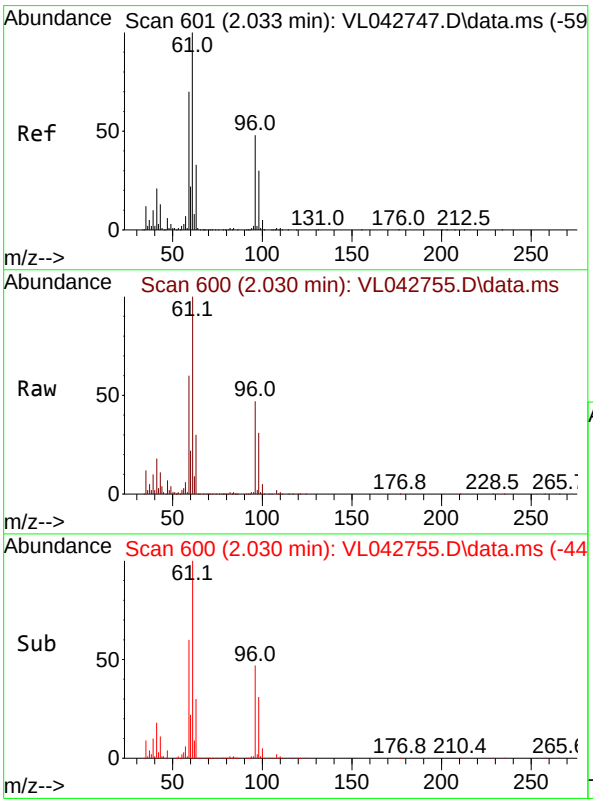
#17
tert-Butyl alcohol
Concen: 9.225 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 59 Resp: 170096

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.3	12.5

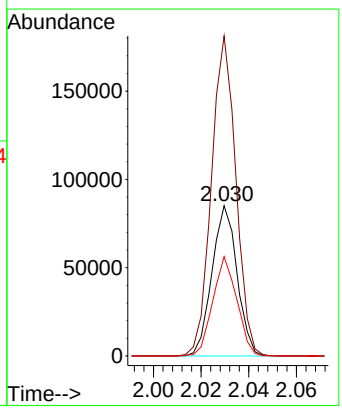


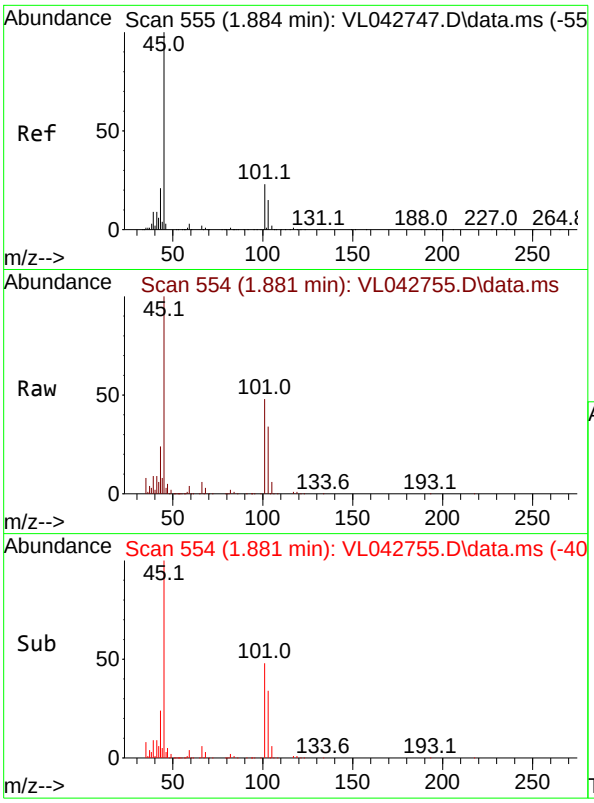


#18
1,1-Dichloroethene
Concen: 8.970 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 96 Resp: 62149

Ion	Ratio	Lower	Upper
96	100		
61	212.9	165.8	248.6
98	66.1	49.9	74.9



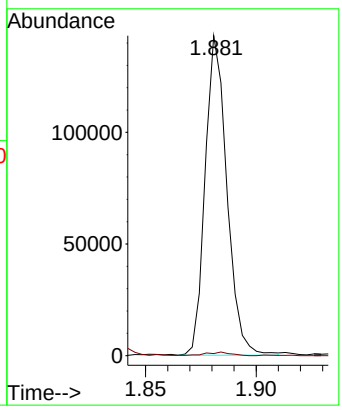


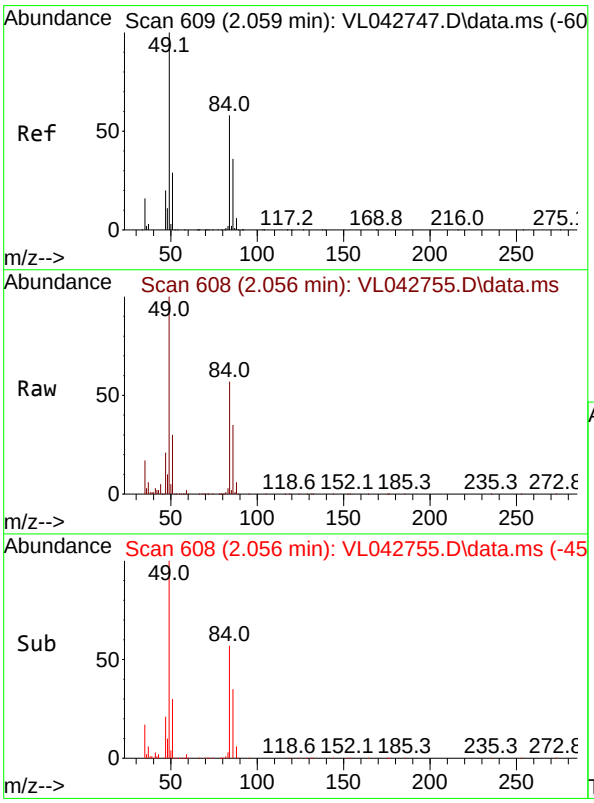
#19
Isopropyl Alcohol
Concen: 9.006 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 45 Resp: 97844

Ion	Ratio	Lower	Upper
45	100		
58	37.1	30.0	45.0

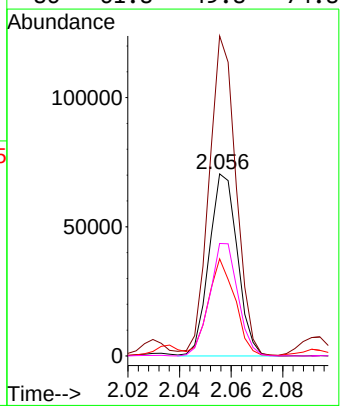


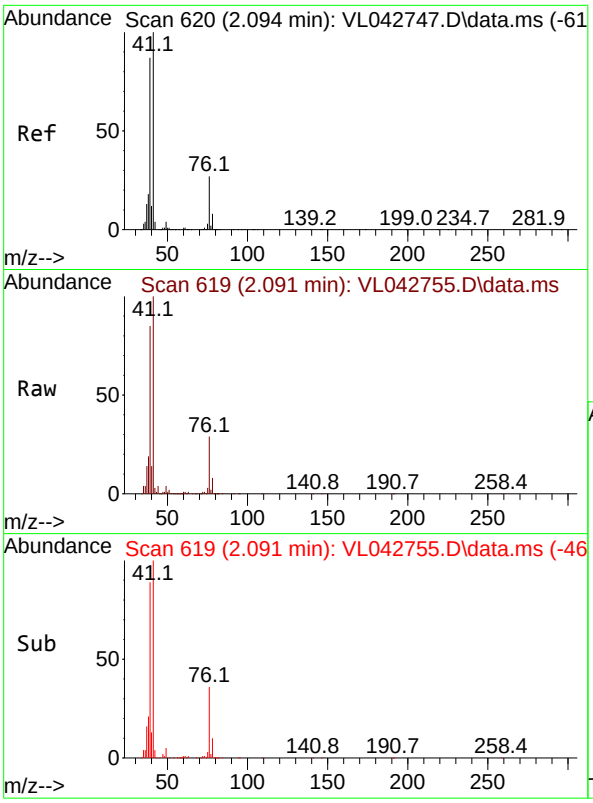


#20
Methylene Chloride
Concen: 8.320 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 84 Resp: 53608

Ion	Ratio	Lower	Upper
84	100		
49	175.3	138.6	208.0
51	53.0	40.6	61.0
86	61.8	49.8	74.8



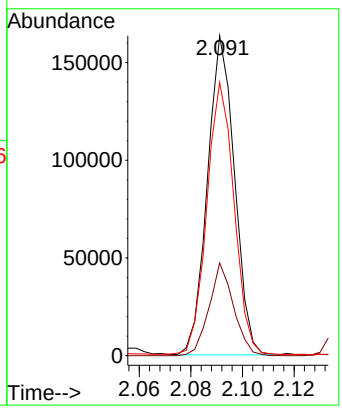


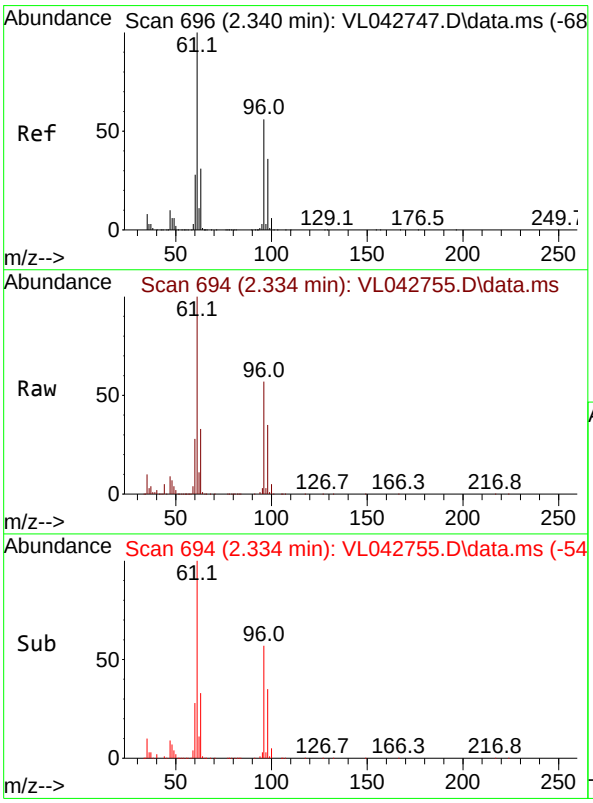
#21
Allyl Chloride
Concen: 9.441 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 41 Resp: 118958

Ion	Ratio	Lower	Upper
41	100		
76	26.3	21.1	31.7
39	85.9	68.3	102.5

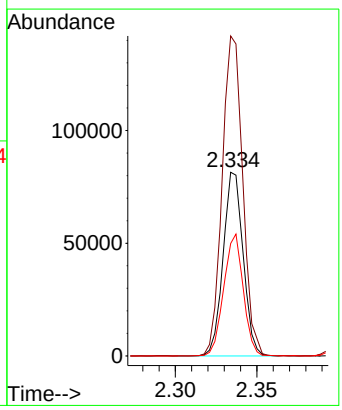


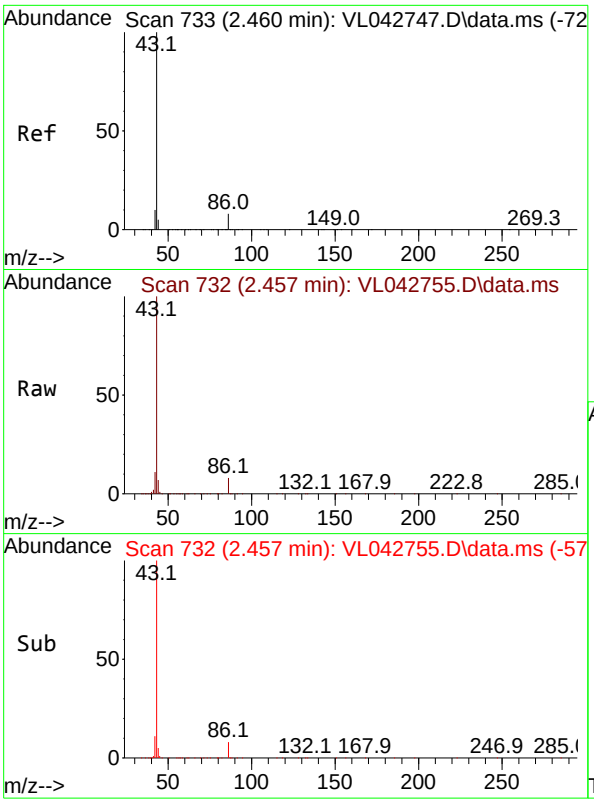


#22
trans-1,2-Dichloroethene
Concen: 9.322 ppbv
RT: 2.334 min Scan# 694
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 96 Resp: 69482

Ion	Ratio	Lower	Upper
96	100		
61	174.3	142.3	213.5
98	61.3	50.6	76.0



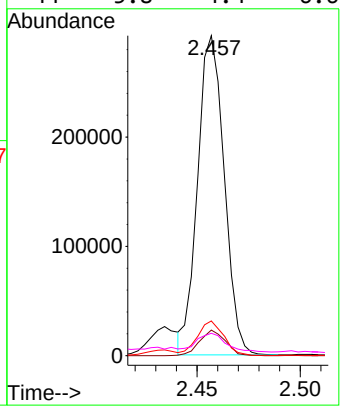


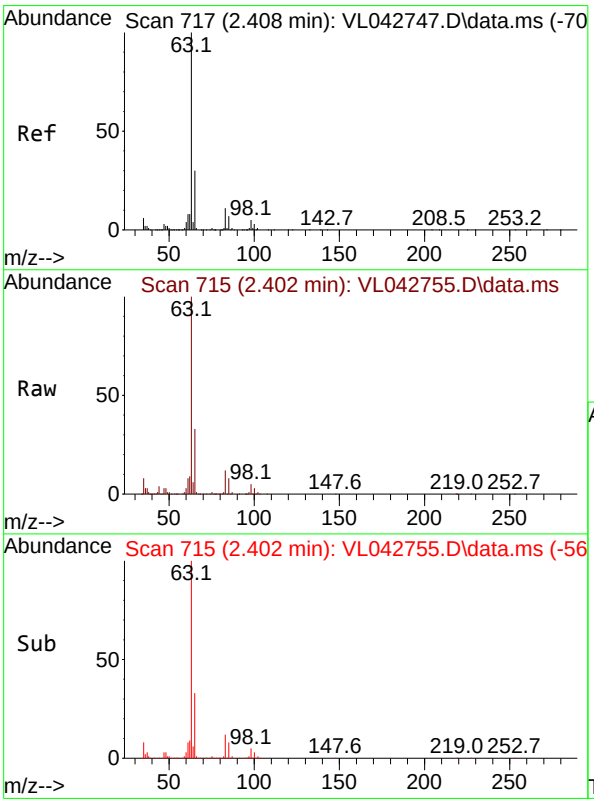
#23
Vinyl Acetate
Concen: 10.568 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 43 Resp: 261938

Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.1	9.1
42	10.7	7.8	11.8
44	5.8	4.4	6.6

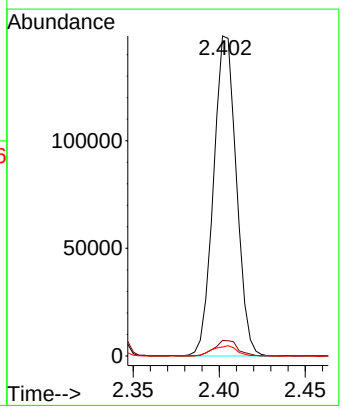


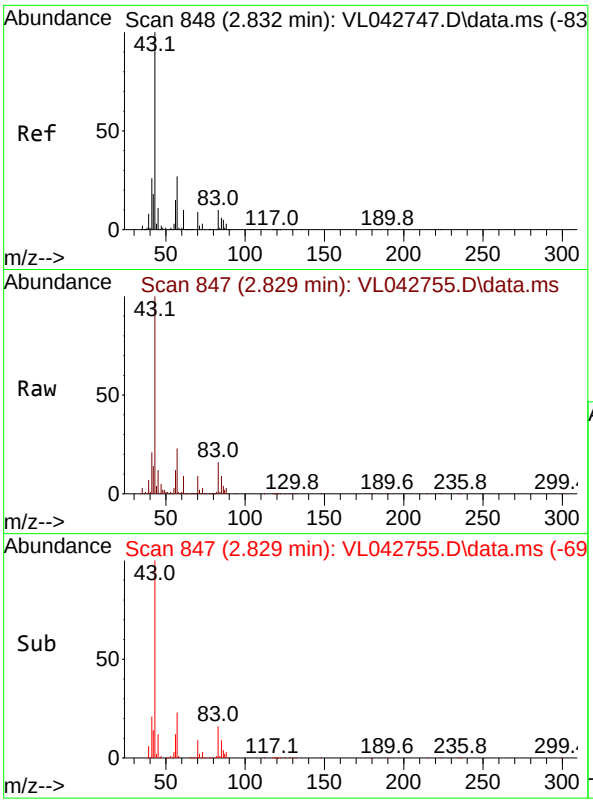


#24
1,1-Dichloroethane
Concen: 8.993 ppbv
RT: 2.402 min Scan# 715
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 63 Resp: 137586

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.5	7.4
100	2.8	1.6	4.8



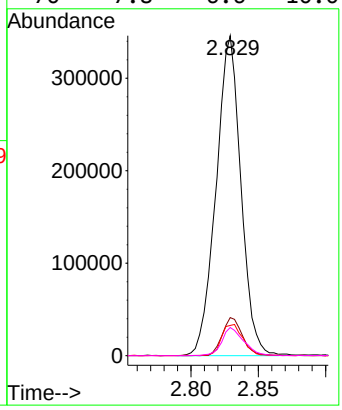


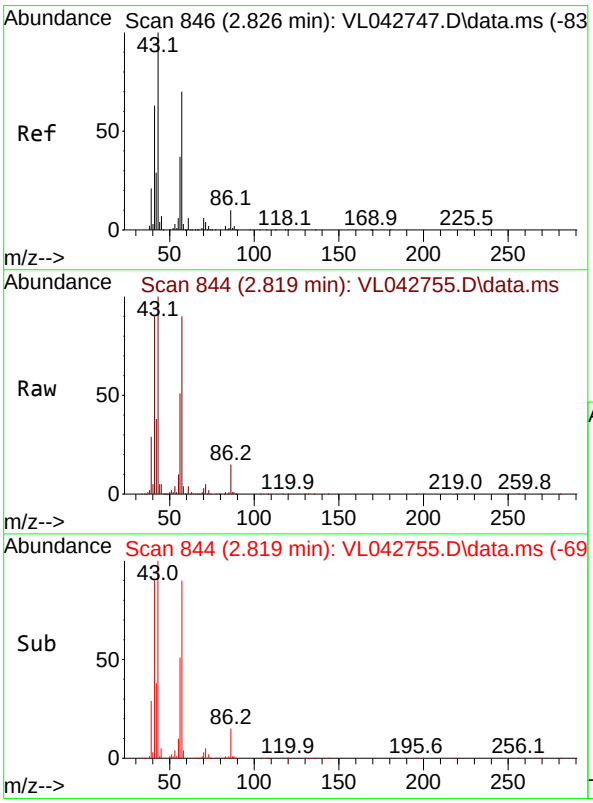
#25
Ethyl Acetate
Concen: 9.816 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 43 Resp: 444208

Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	8.7	6.7	10.1
70	7.8	6.6	10.0

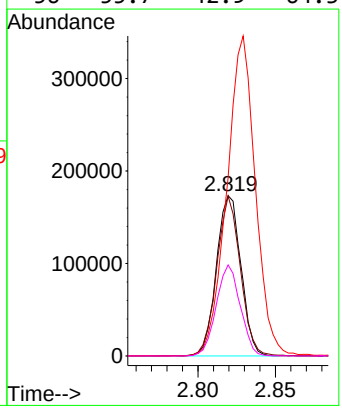


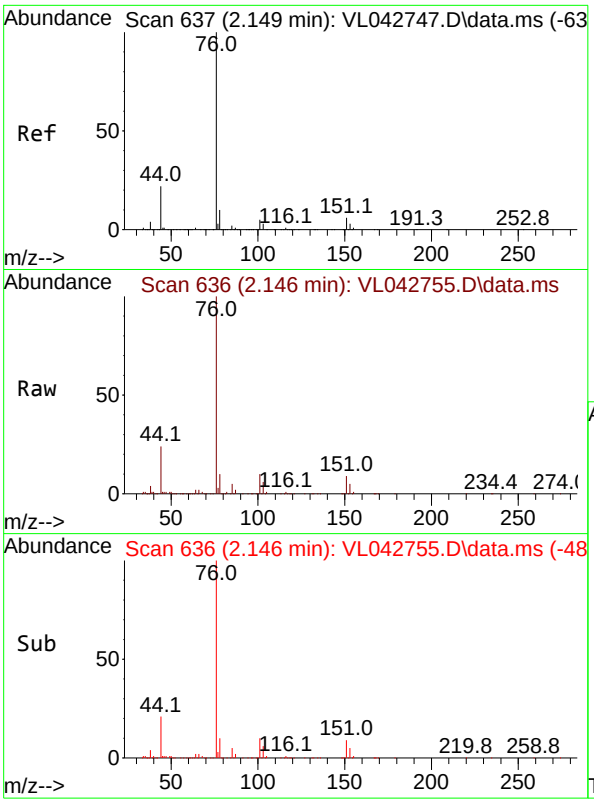


#26
Hexane
Concen: 9.597 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 57 Resp: 190523

Ion	Ratio	Lower	Upper
57	100		
41	96.3	75.4	113.2
43	234.2	185.0	277.6
56	55.7	42.9	64.3



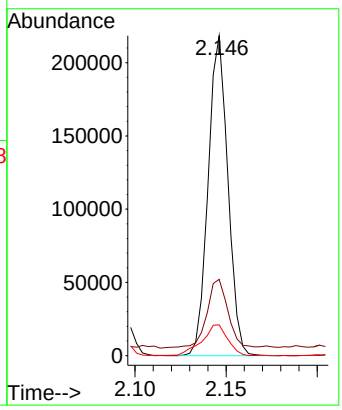


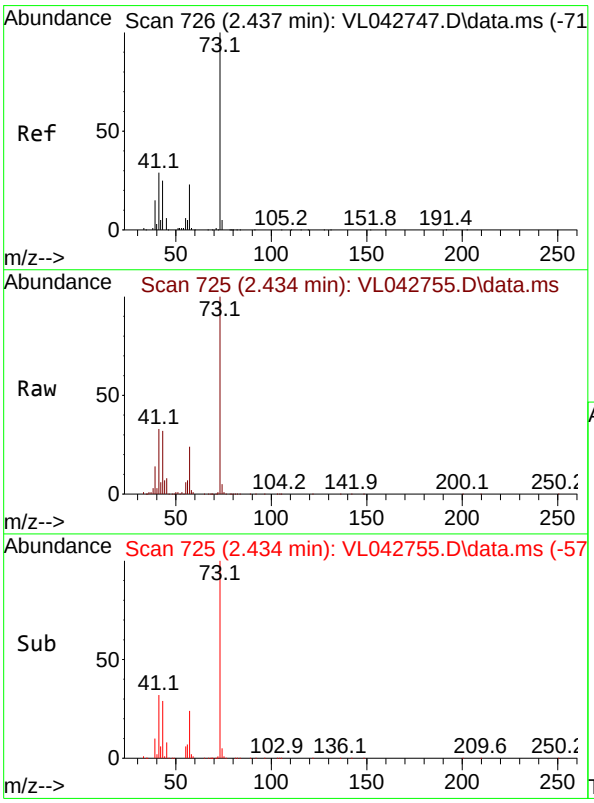
#27
Carbon Disulfide
Concen: 9.652 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 76 Resp: 164040

Ion	Ratio	Lower	Upper
76	100		
44	23.7	19.3	28.9
78	12.7	9.9	14.9

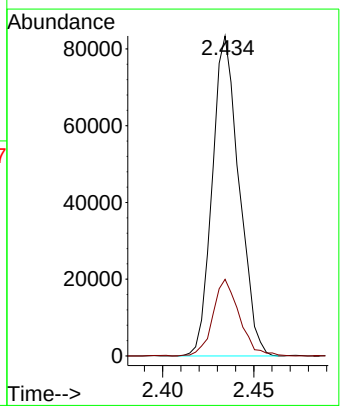


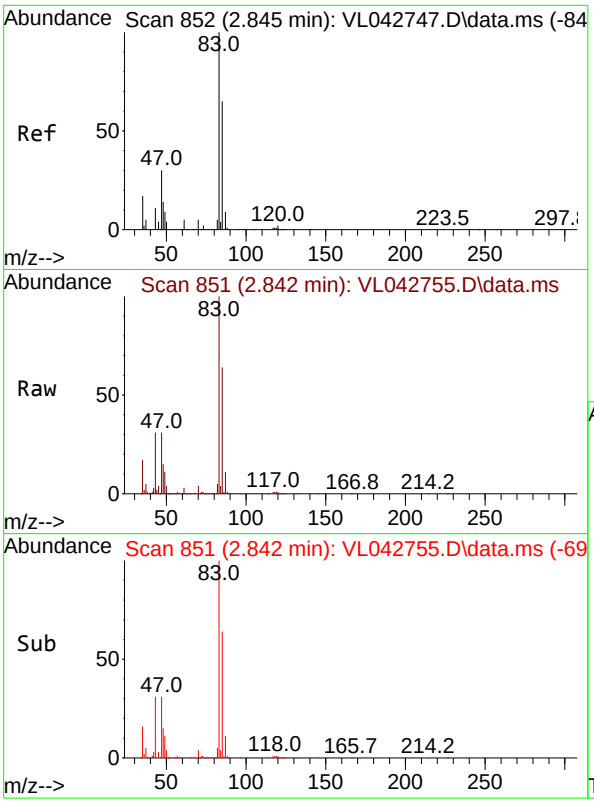


#28
Methyl tert-Butyl Ether
Concen: 9.114 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 73 Resp: 85480

Ion	Ratio	Lower	Upper
73	100		
57	23.8	19.8	29.8



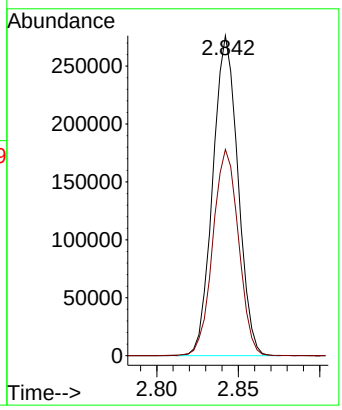


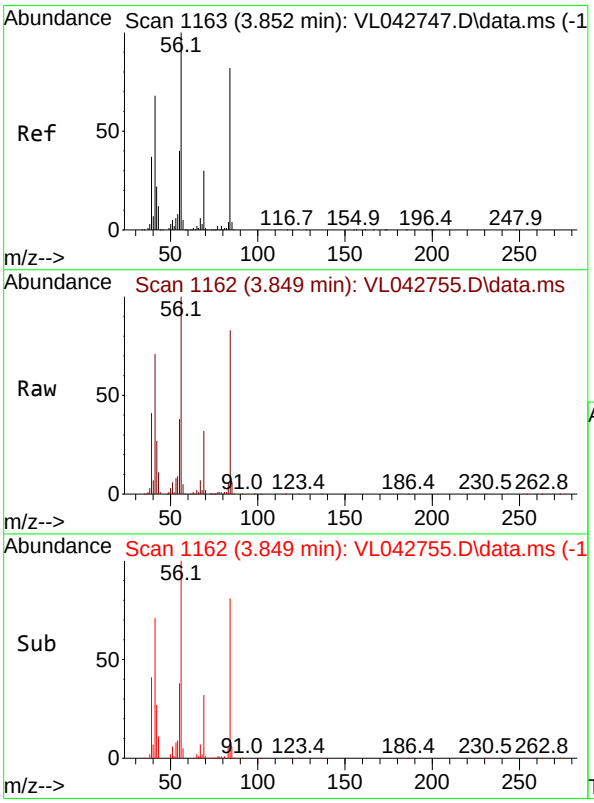
#29
Chloroform
Concen: 9.643 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 83 Resp: 295808

Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.2	78.2

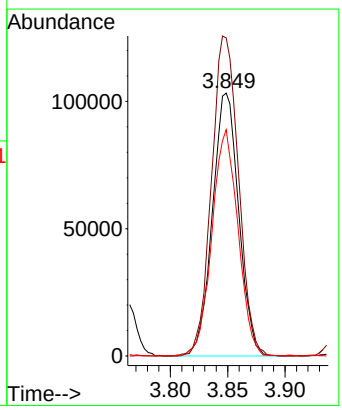


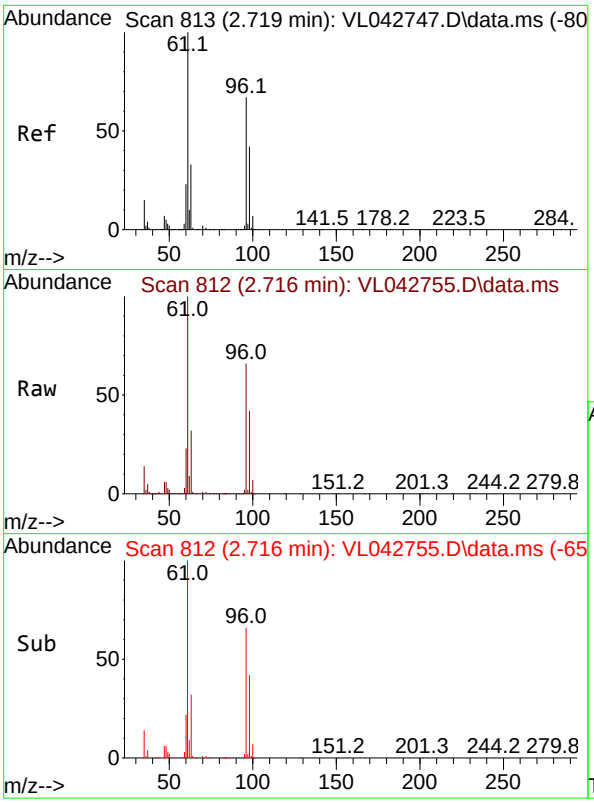


#30
Cyclohexane
Concen: 9.773 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 84 Resp: 164554

Ion	Ratio	Lower	Upper
84	100		
56	124.9	97.5	146.3
41	85.5	67.2	100.8



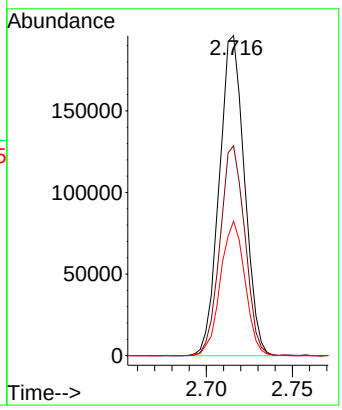


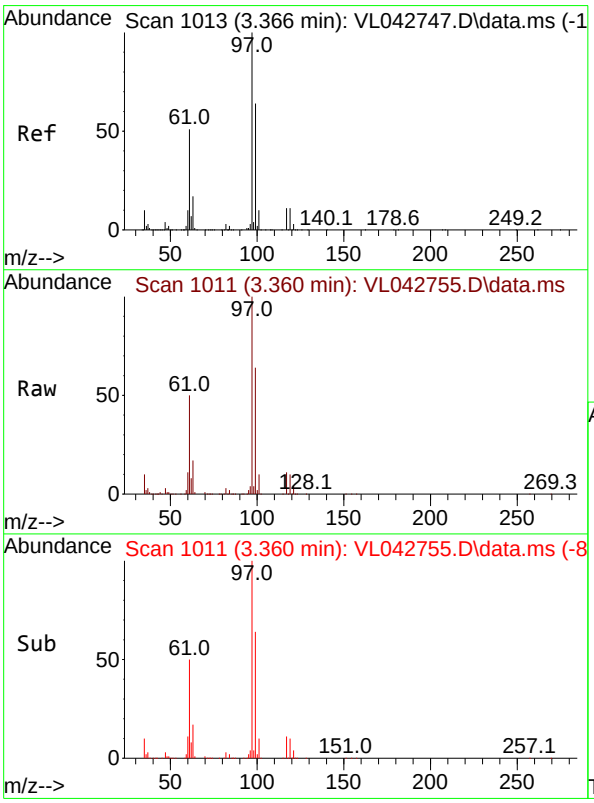
#31
cis-1,2-Dichloroethene
Concen: 9.802 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 61 Resp: 199970

Ion	Ratio	Lower	Upper
61	100		
96	65.6	53.5	80.3
98	42.1	33.6	50.4

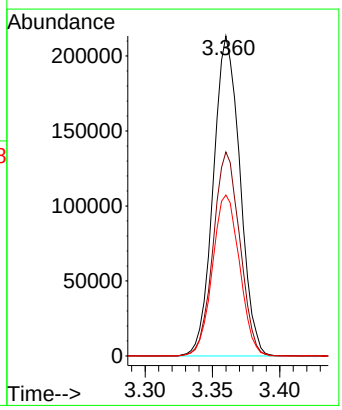


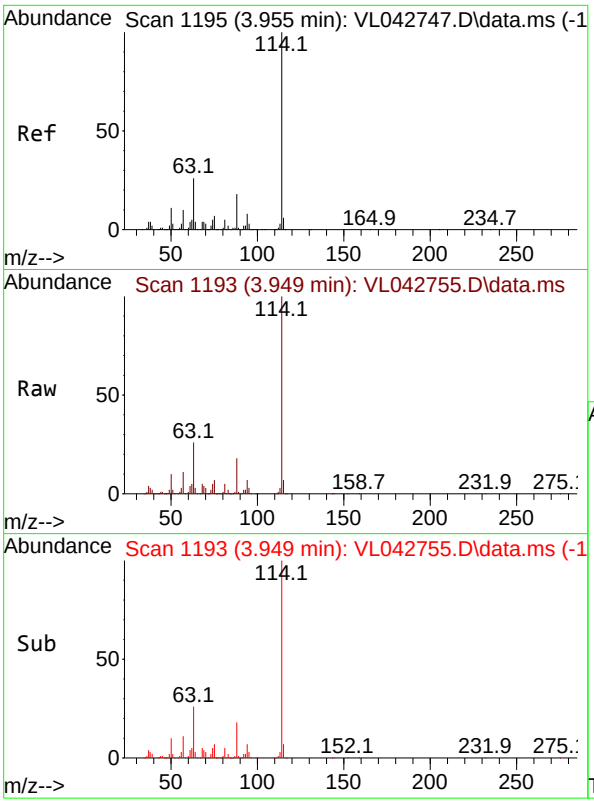


#32
1,1,1-Trichloroethane
Concen: 9.172 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 97 Resp: 293074

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.0	76.6
61	51.4	40.9	61.3



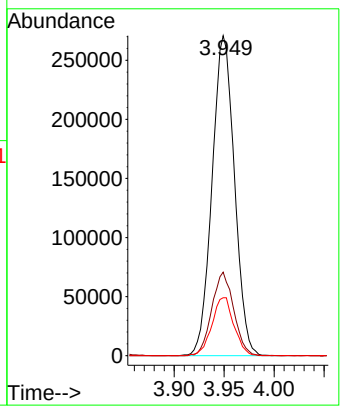


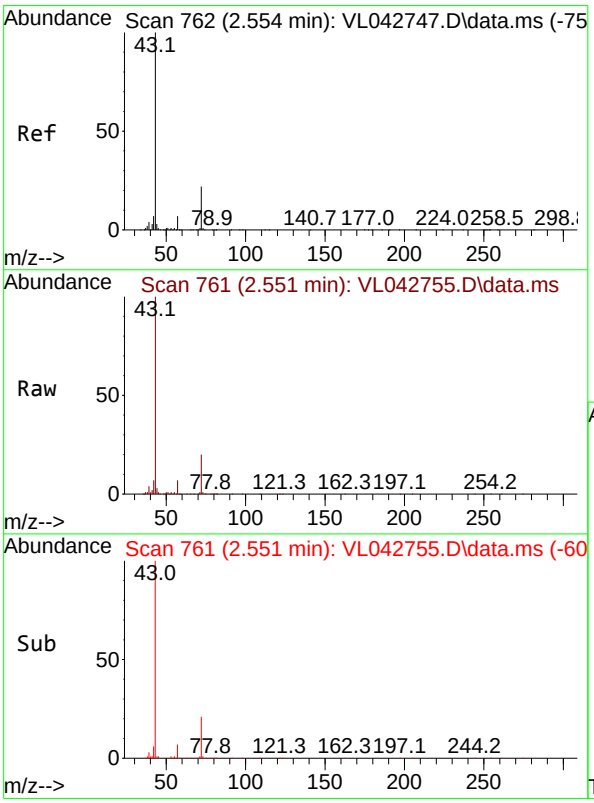
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:114 Resp: 421747

Ion	Ratio	Lower	Upper
114	100		
63	25.6	20.5	30.7
88	17.8	14.0	21.0

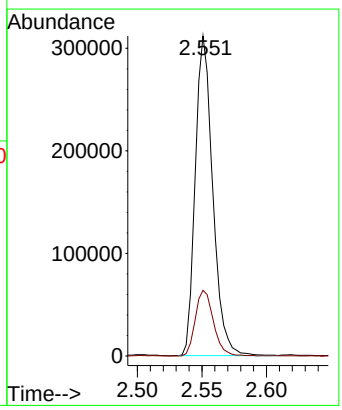


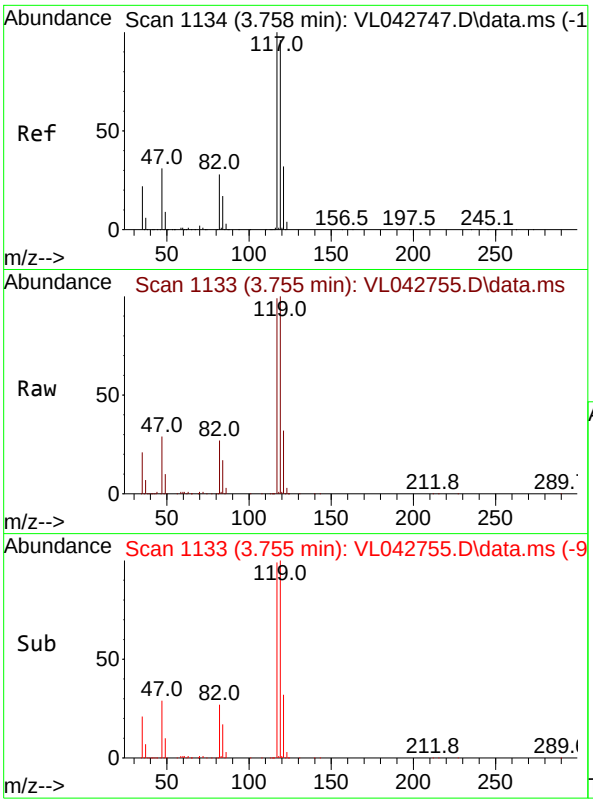


#34
2-Butanone
Concen: 9.869 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 43 Resp: 294837

Ion	Ratio	Lower	Upper
43	100		
72	21.4	17.4	26.0



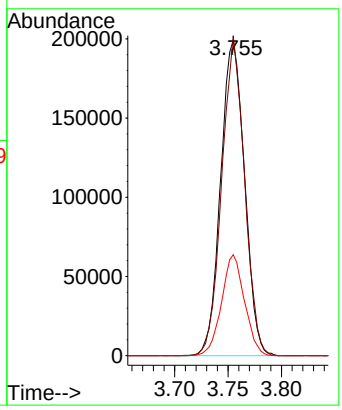


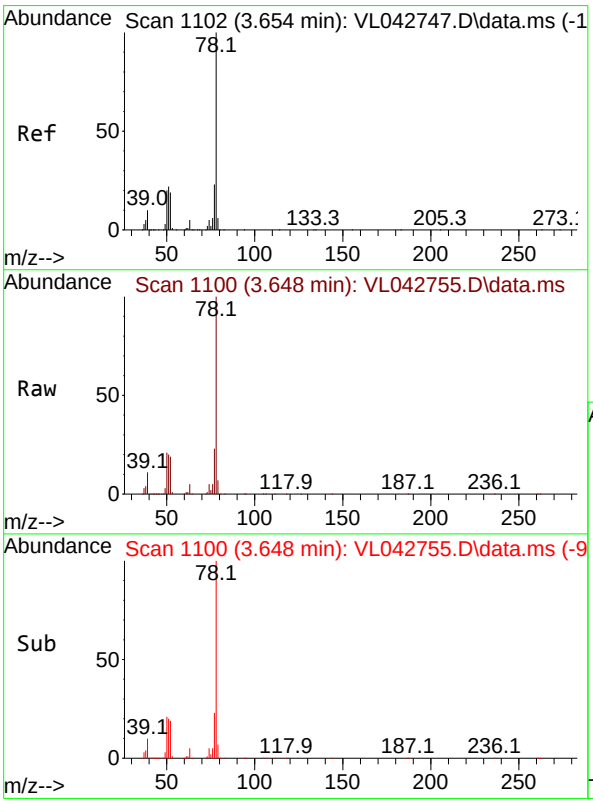
#35
Carbon Tetrachloride
Concen: 9.900 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:117 Resp: 310129

Ion	Ratio	Lower	Upper
117	100		
119	101.4	77.1	115.7
121	32.0	25.5	38.3

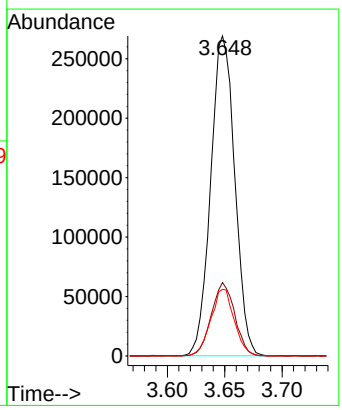


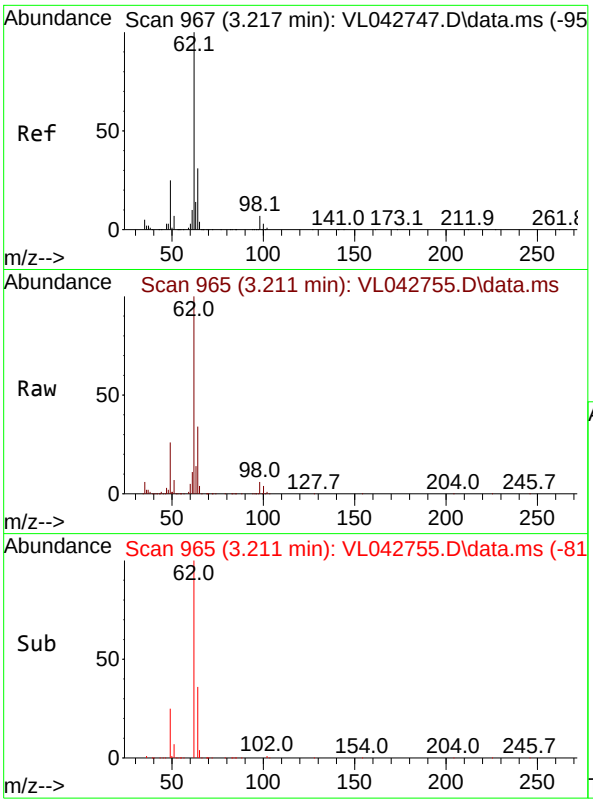


#36
Benzene
Concen: 9.834 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 78 Resp: 393085

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.5	27.7
50	20.8	16.2	24.2



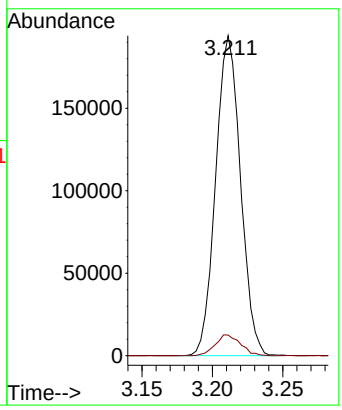


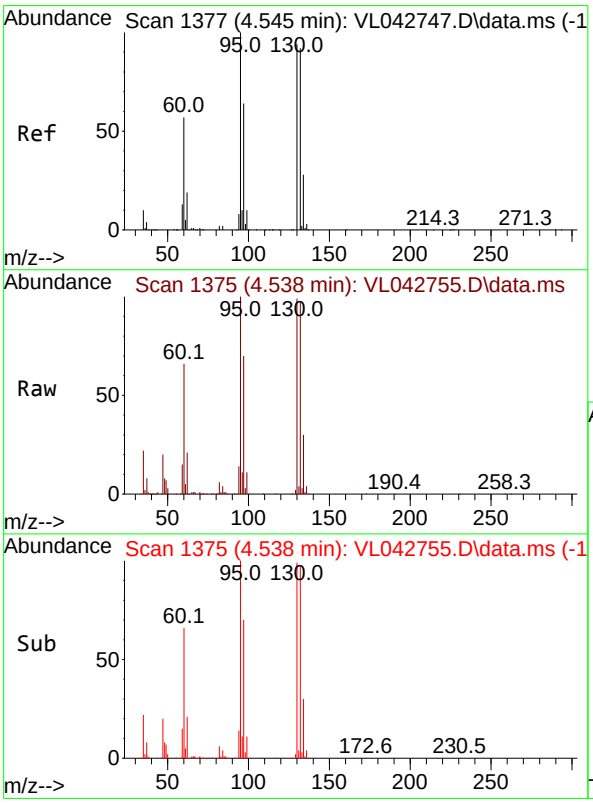
#37
1,2-Dichloroethane
Concen: 9.895 ppbv
RT: 3.211 min Scan# 9
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 62 Resp: 238249

Ion	Ratio	Lower	Upper
62	100		
98	6.6	5.2	7.8

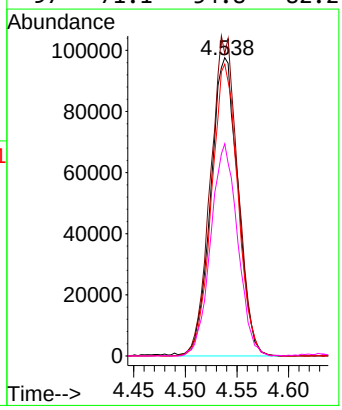


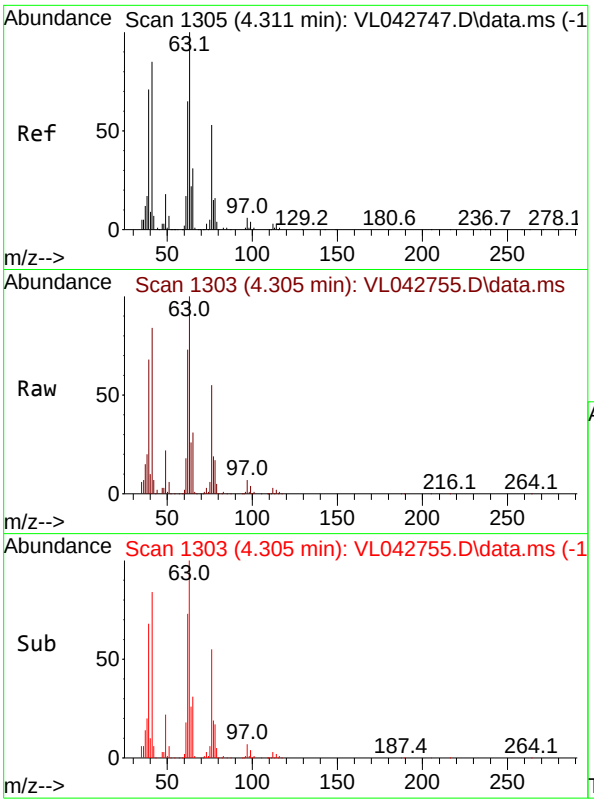


#38
Trichloroethene
Concen: 9.301 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:130 Resp: 178600

Ion	Ratio	Lower	Upper
130	100		
95	101.3	85.4	128.2
132	97.7	78.2	117.2
97	71.1	54.8	82.2



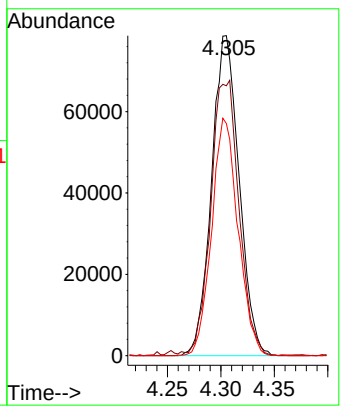


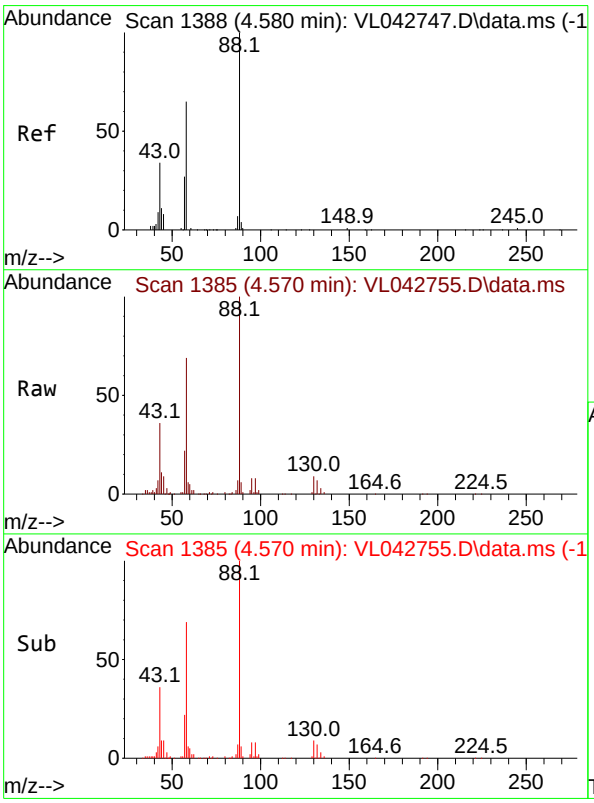
#39
1,2-Dichloropropane
Concen: 9.578 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 63 Resp: 141316

Ion	Ratio	Lower	Upper
63	100		
41	84.3	68.2	102.4
62	72.5	52.0	78.0

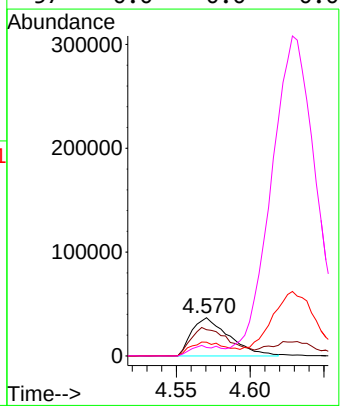


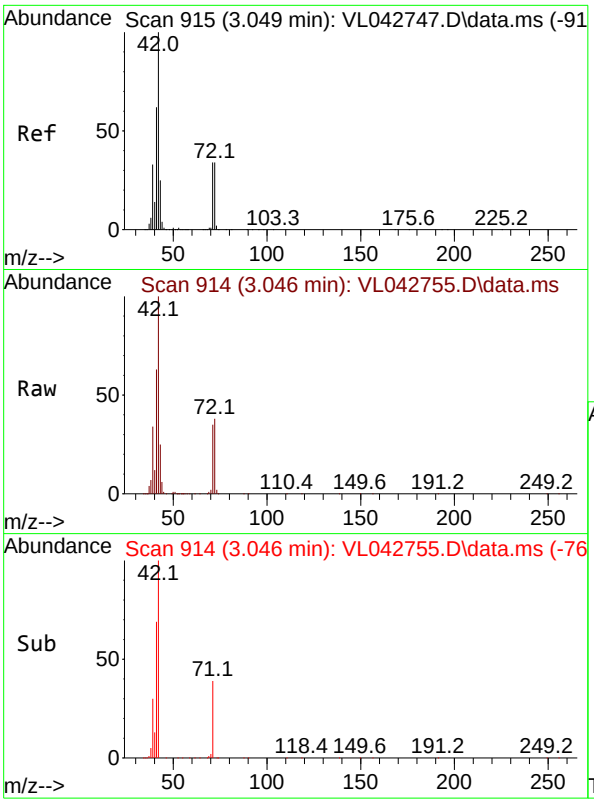


#40
1,4-Dioxane
Concen: 9.481 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 88 Resp: 65204

Ion	Ratio	Lower	Upper
88	100		
58	78.4	58.8	88.2
43	32.6	28.9	43.3
57	0.0	0.0	0.0



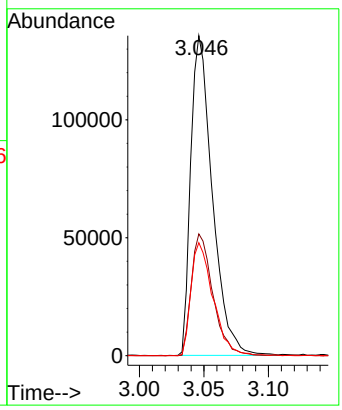


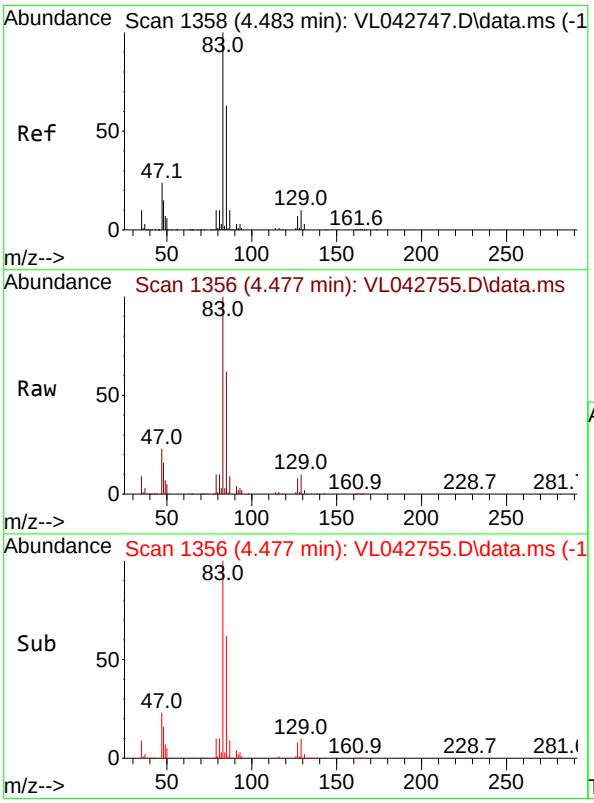
#41
Tetrahydrofuran
Concen: 10.404 ppbv
RT: 3.046 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 42 Resp: 158159

Ion	Ratio	Lower	Upper
42	100		
72	38.2	30.9	46.3
71	36.2	28.6	43.0

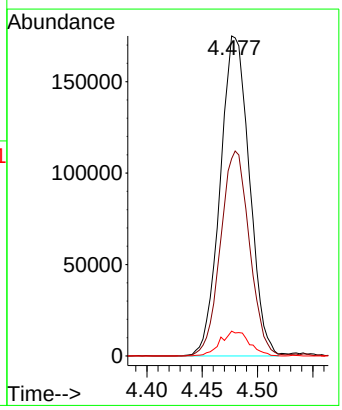


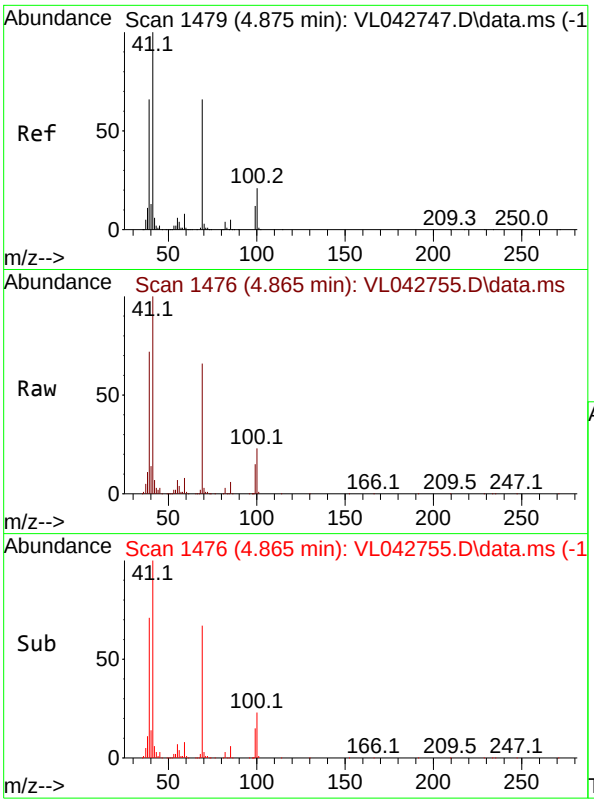


#42
Bromodichloromethane
Concen: 10.254 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 83 Resp: 321549

Ion	Ratio	Lower	Upper
83	100		
85	61.6	50.2	75.4
127	7.7	5.4	8.2



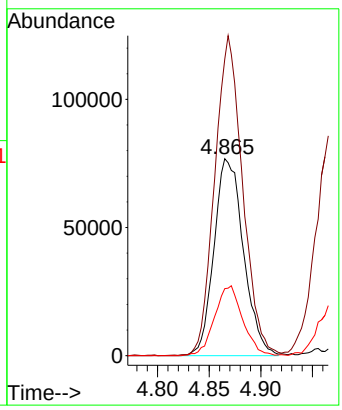


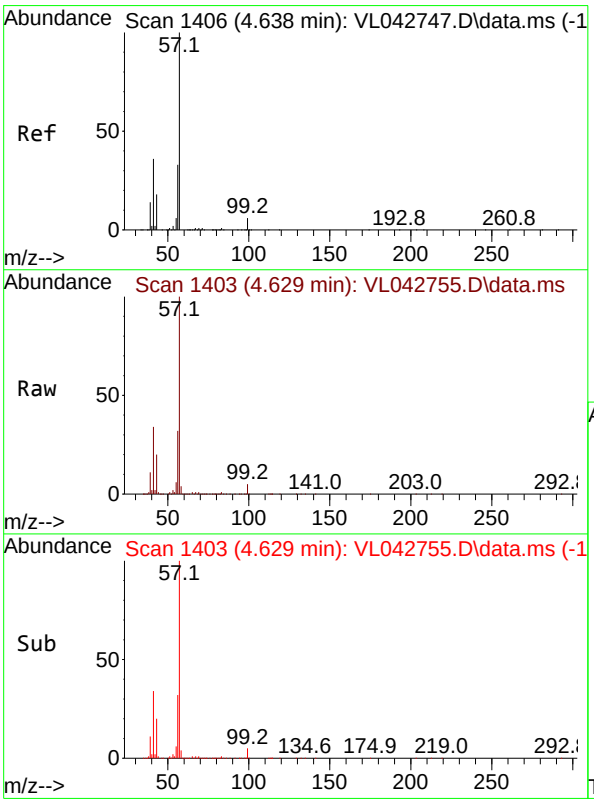
#43
Methyl Methacrylate
Concen: 10.738 ppbv
RT: 4.865 min Scan# 14
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 69 Resp: 152551

Ion	Ratio	Lower	Upper
69	100		
41	153.9	125.7	188.5
100	33.9	28.6	42.8

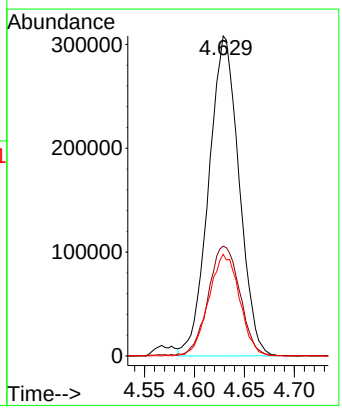


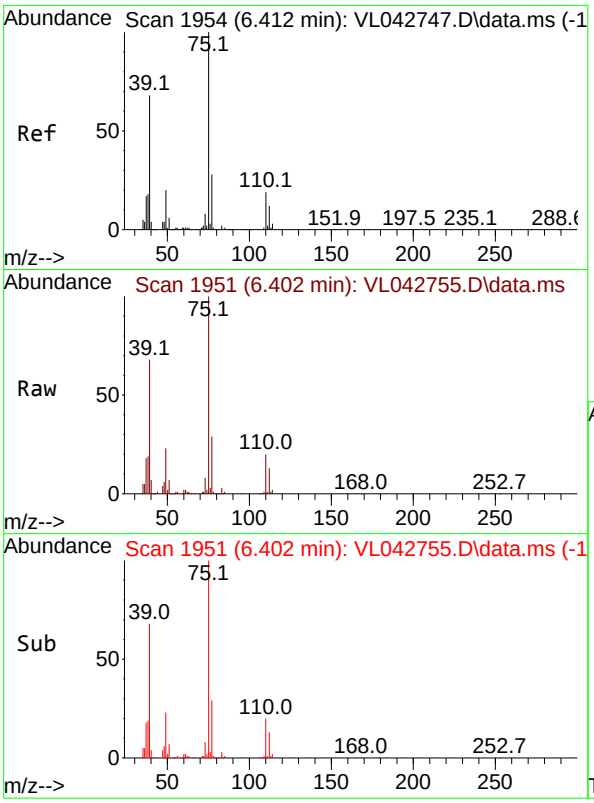


#44
2,2,4-Trimethylpentane
Concen: 9.973 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 57 Resp: 649720

Ion	Ratio	Lower	Upper
57	100		
41	36.3	28.3	42.5
56	32.4	25.8	38.6



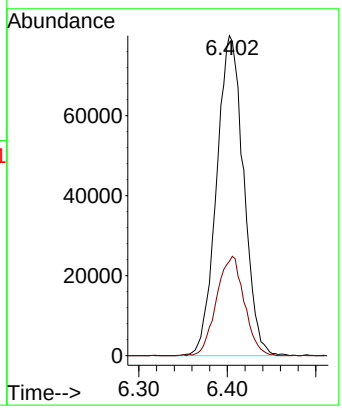


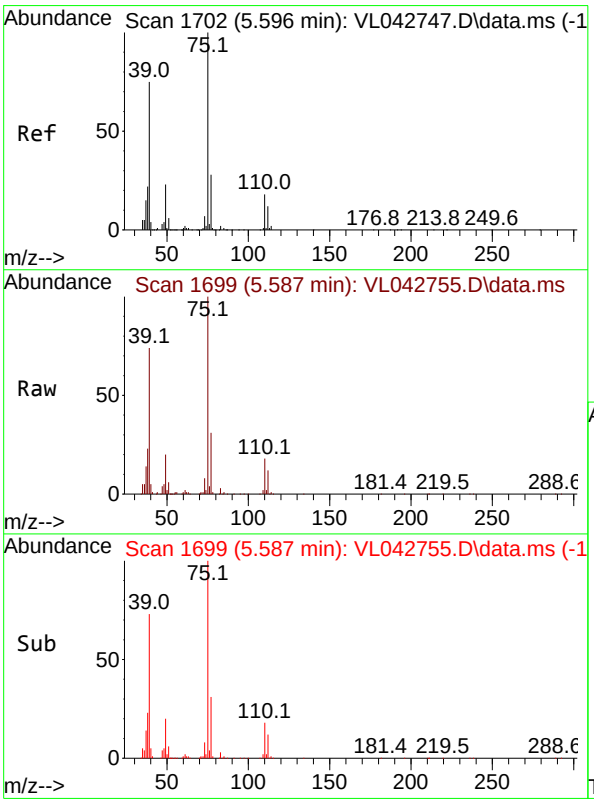
#45
t-1,3-Dichloropropene
Concen: 10.643 ppbv
RT: 6.402 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 75 Resp: 169563

Ion	Ratio	Lower	Upper
75	100		
77	29.5	22.4	33.6

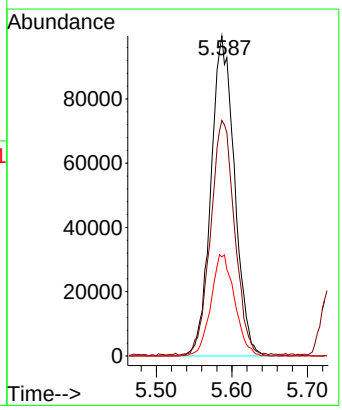


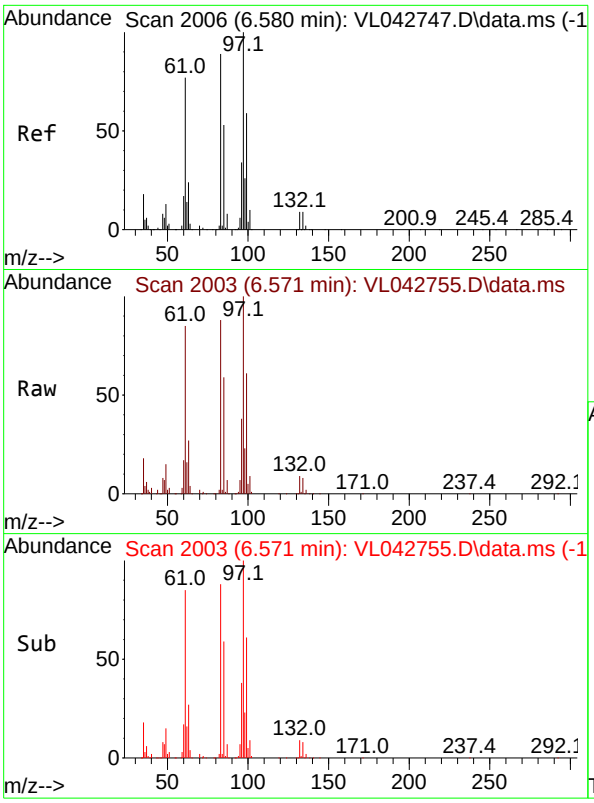


#46
cis-1,3-Dichloropropene
Concen: 10.679 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 75 Resp: 215596

Ion	Ratio	Lower	Upper
75	100		
39	73.3	60.2	90.2
77	30.9	22.6	34.0



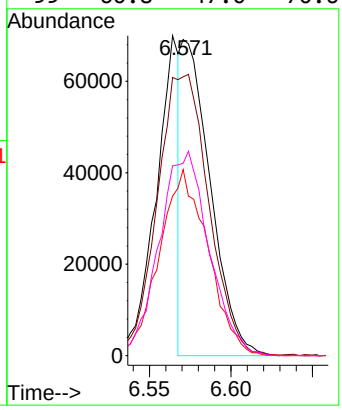


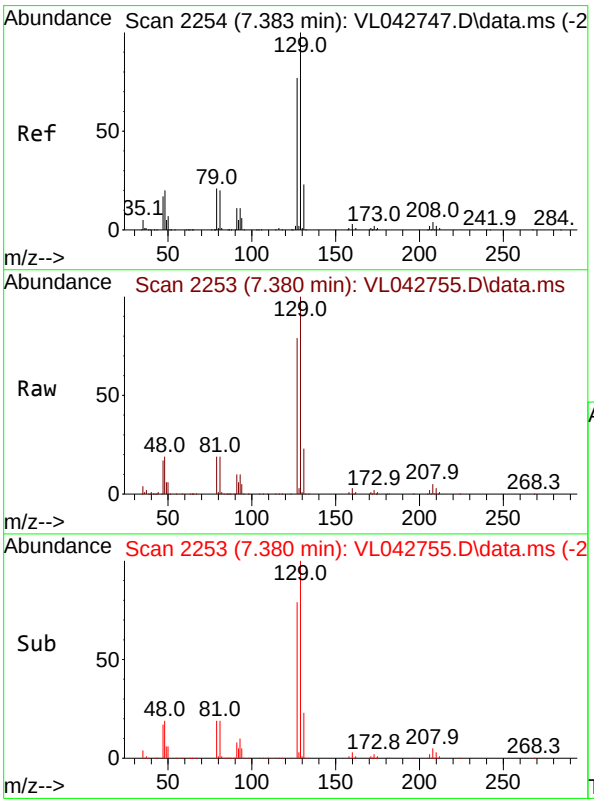
#47
1,1,2-Trichloroethane
Concen: 5.445 ppbv
RT: 6.571 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 97 Resp: 85637

Ion	Ratio	Lower	Upper
97	100		
83	88.0	71.1	106.7
85	58.7	43.0	64.4
99	60.8	47.0	70.6

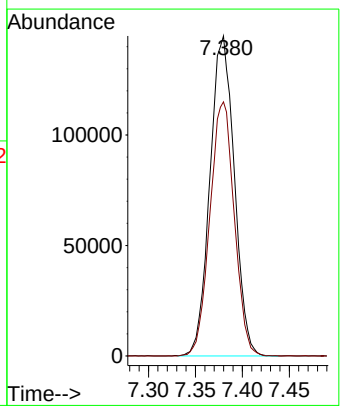


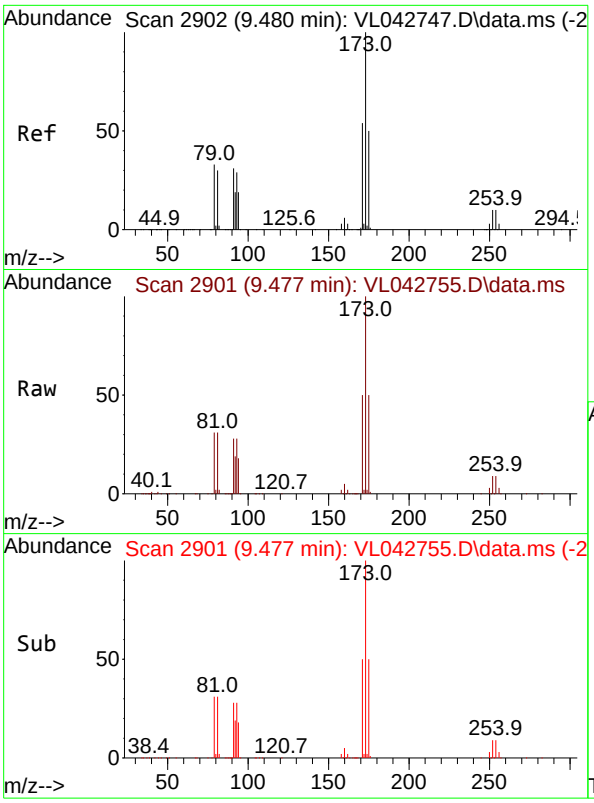


#48
Dibromochloromethane
Concen: 10.460 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:129 Resp: 261174

Ion	Ratio	Lower	Upper
129	100		
127	79.4	38.7	116.1



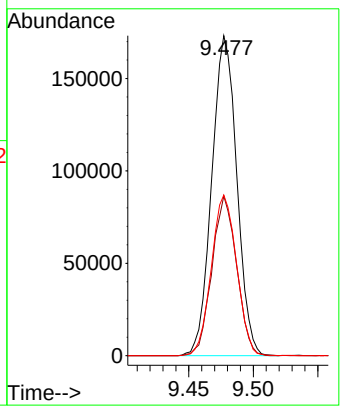


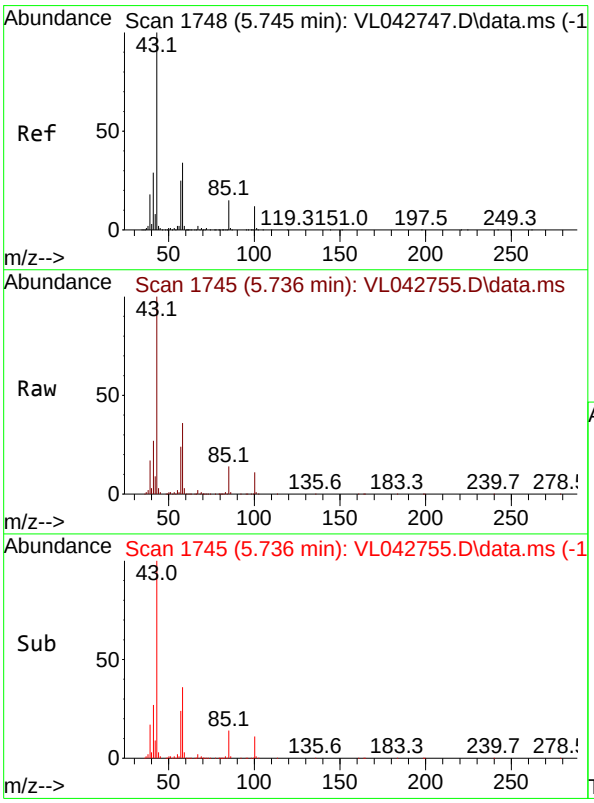
#49
Bromoform
Concen: 10.729 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:173 Resp: 233573

Ion	Ratio	Lower	Upper
173	100		
175	49.0	38.4	57.6
171	50.7	40.9	61.3

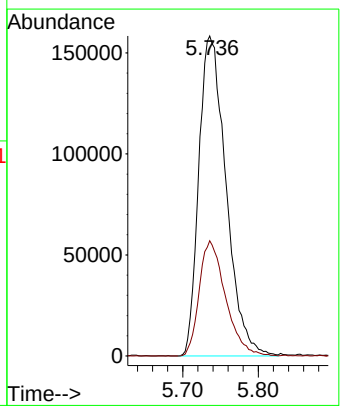


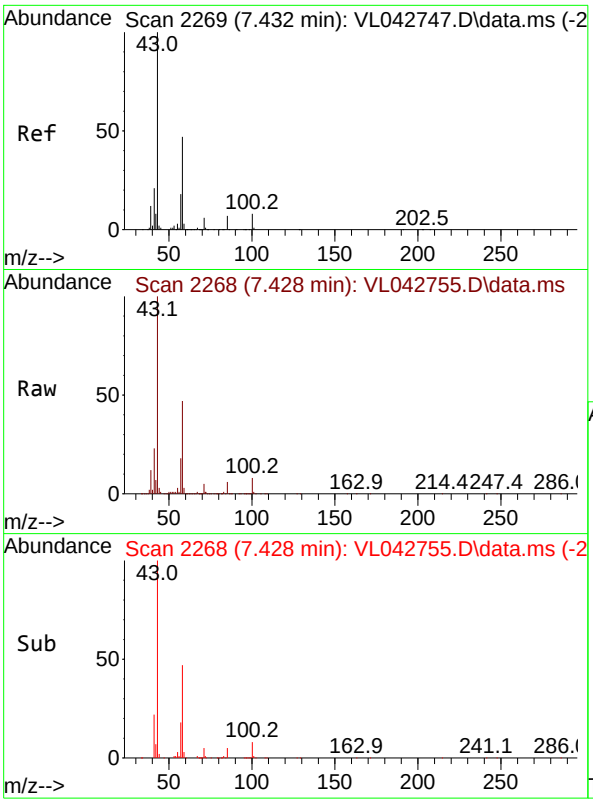


#50
4-Methyl-2-Pentanone
Concen: 10.303 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 43 Resp: 396506

Ion	Ratio	Lower	Upper
43	100		
58	34.9	27.8	41.8



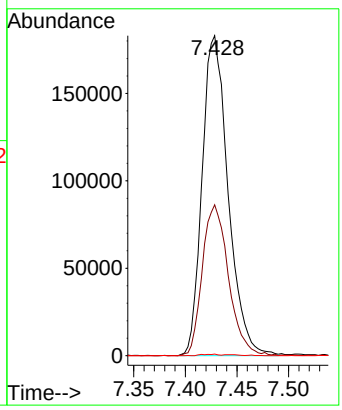


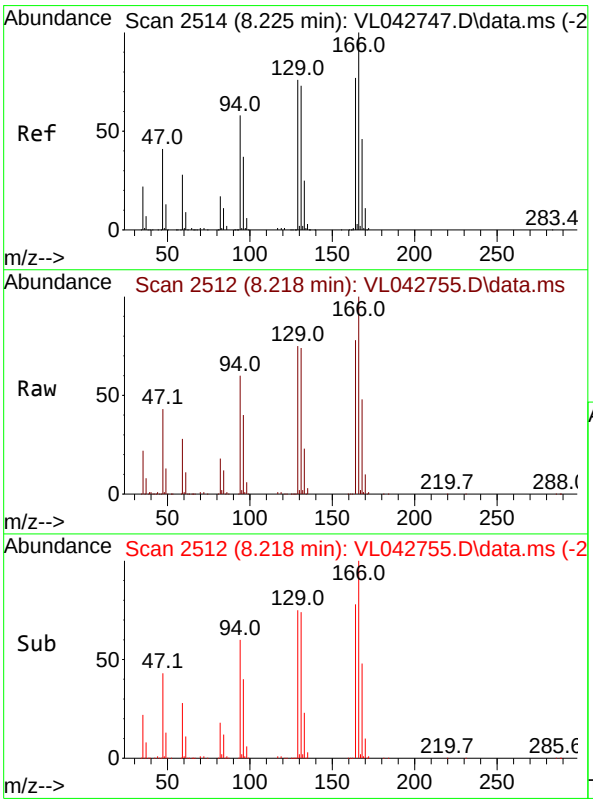
#51
2-Hexanone
Concen: 11.029 ppbv
RT: 7.428 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 43 Resp: 320740

Ion	Ratio	Lower	Upper
43	100		
58	47.8	38.0	57.0
98	0.5	0.2	0.4#

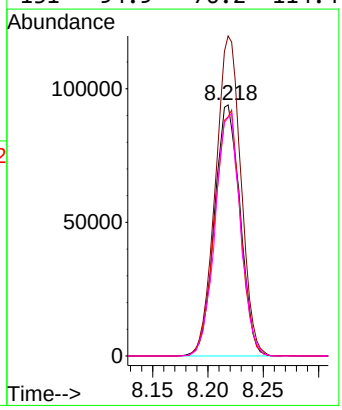


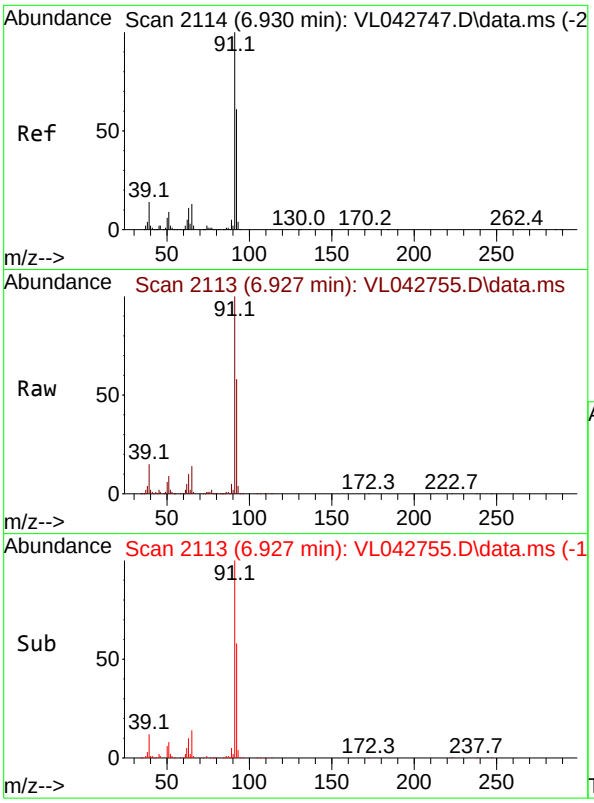


#52
Tetrachloroethene
Concen: 9.163 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:164 Resp: 151810

Ion	Ratio	Lower	Upper
164	100		
166	127.4	104.0	156.0
129	95.3	79.2	118.8
131	94.9	76.2	114.4



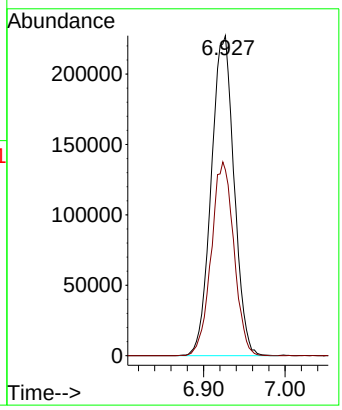


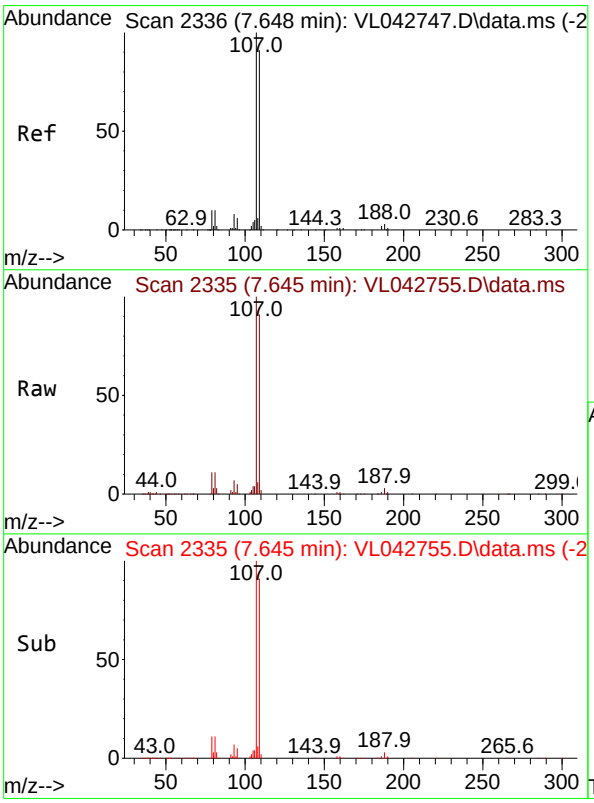
#53
Toluene
Concen: 10.294 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 91 Resp: 441829

Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.0	72.0

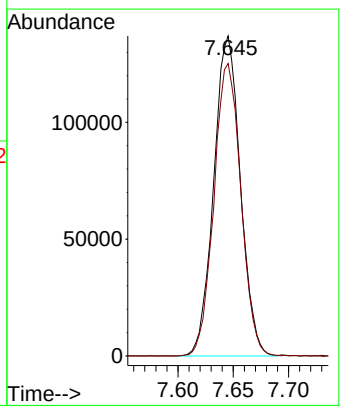


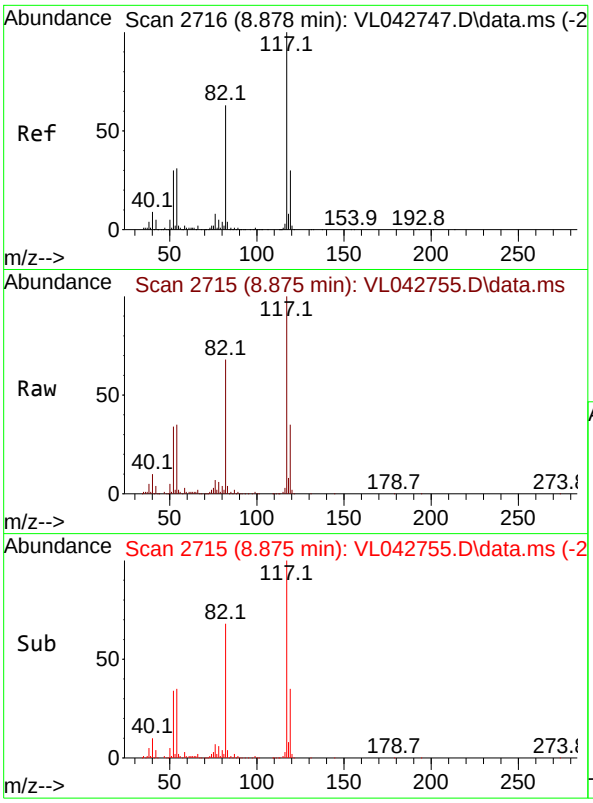


#54
1,2-Dibromoethane
Concen: 10.331 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:107 Resp: 229563

Ion	Ratio	Lower	Upper
107	100		
109	91.3	72.7	109.1



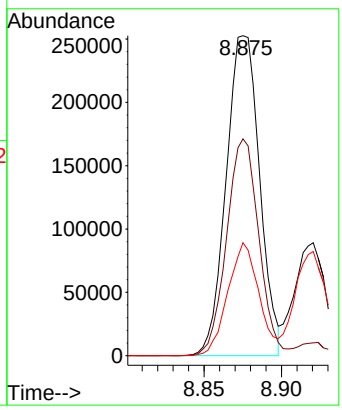


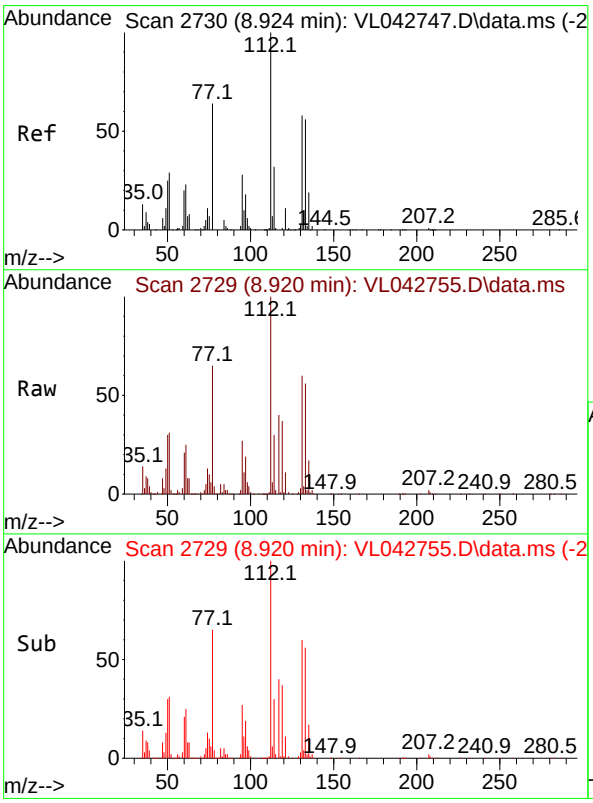
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:117 Resp: 380539

Ion	Ratio	Lower	Upper
117	100		
82	68.9	53.3	79.9
119	33.0	25.8	38.6

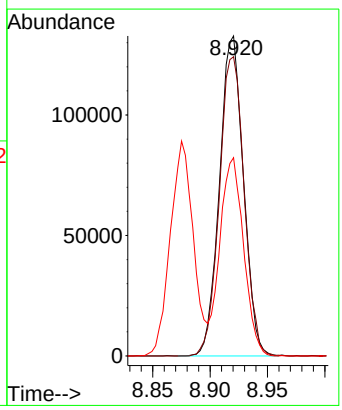


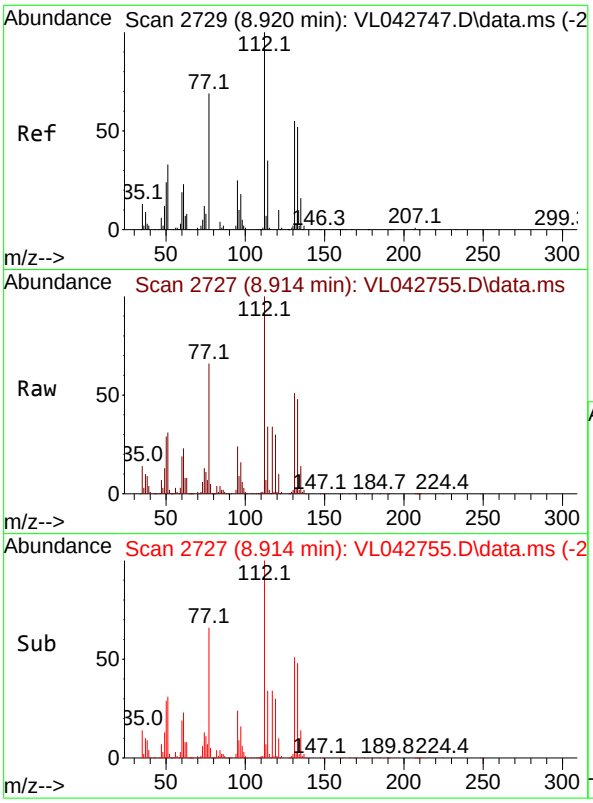


#56
1,1,1,2-Tetrachloroethane
Concen: 9.759 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:131 Resp: 193089

Ion	Ratio	Lower	Upper
131	100		
133	96.6	76.8	115.2
119	61.2	49.7	74.5



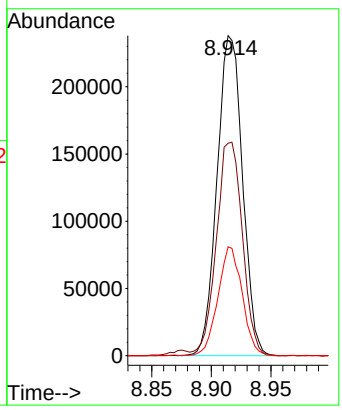


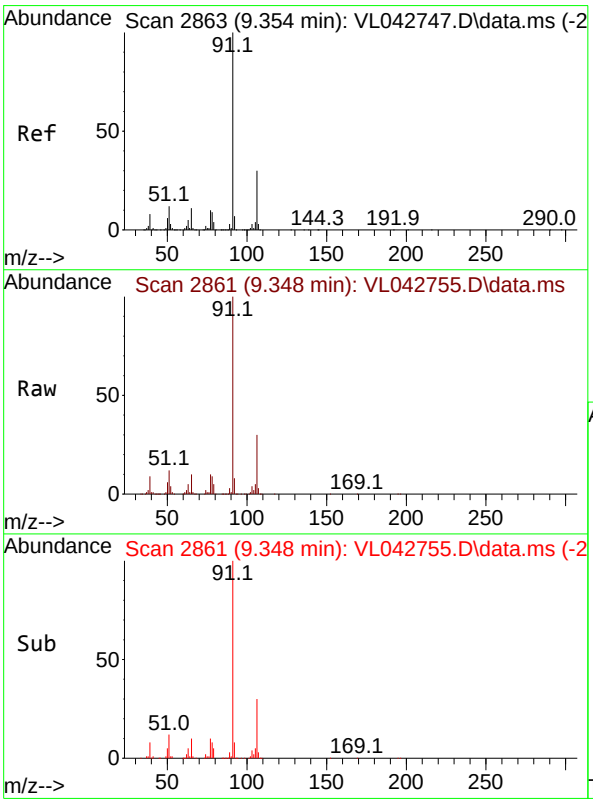
#57
Chlorobenzene
Concen: 9.623 ppbv
RT: 8.914 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:112 Resp: 354412

Ion	Ratio	Lower	Upper
112	100		
77	66.4	56.4	84.6
114	34.0	31.2	38.2

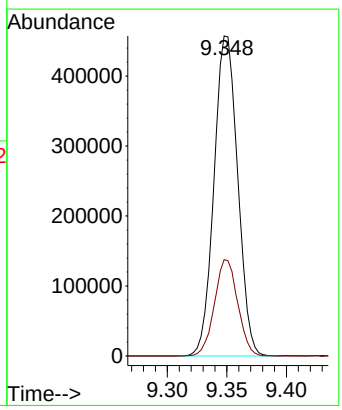


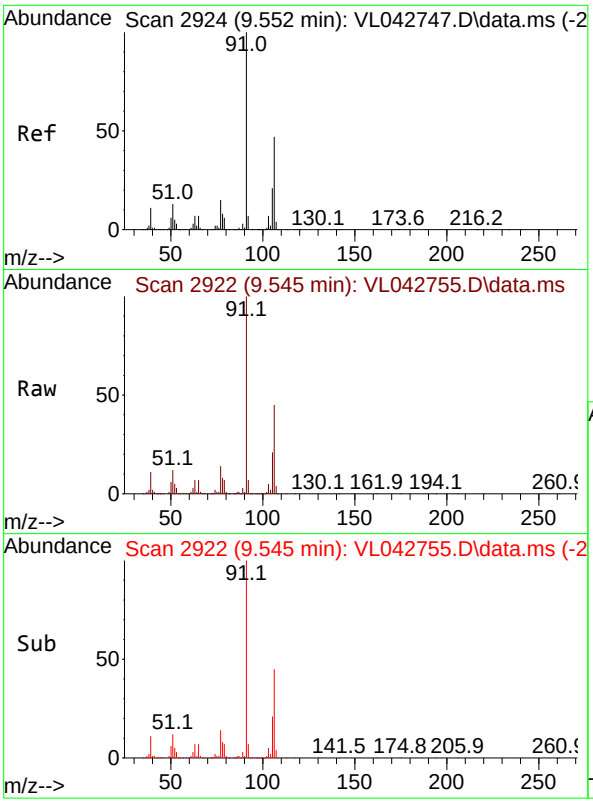


#58
Ethyl Benzene
Concen: 10.504 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 631247

Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.8	35.6



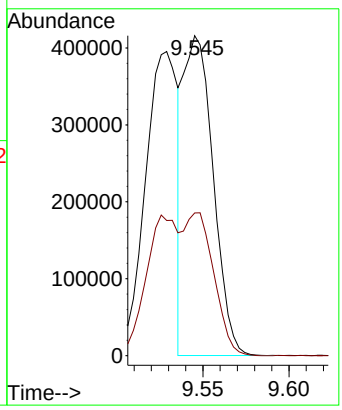


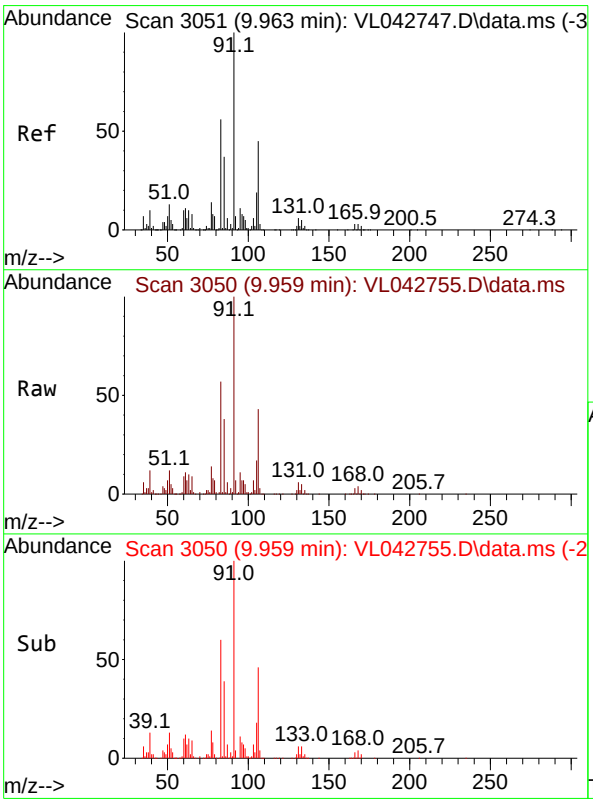
#59
m/p-Xylene
Concen: 10.418 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 91 Resp: 500367

Ion	Ratio	Lower	Upper
91	100		
106	92.3	37.4	56.2#

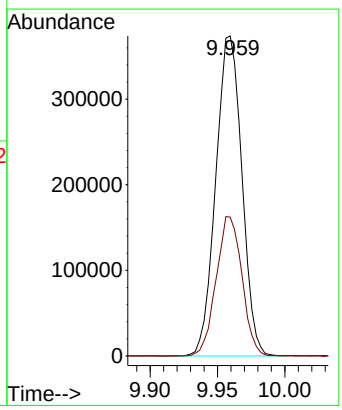


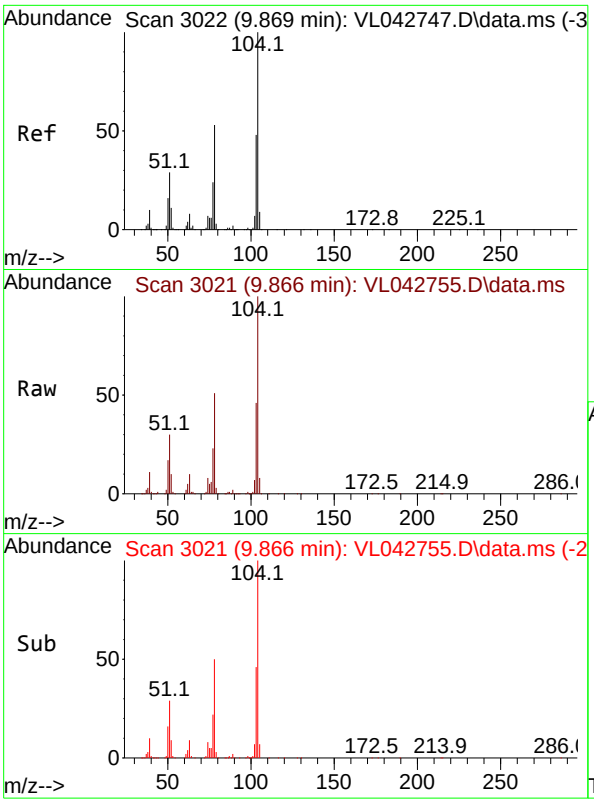


#60
o-Xylene
Concen: 10.499 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 503849

Ion	Ratio	Lower	Upper
91	100		
106	43.1	22.0	66.0



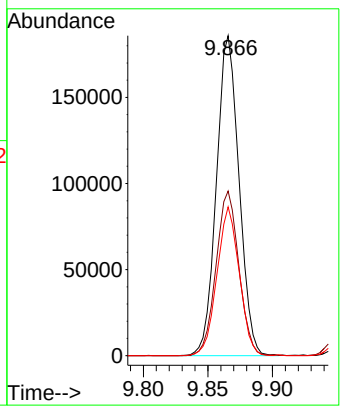


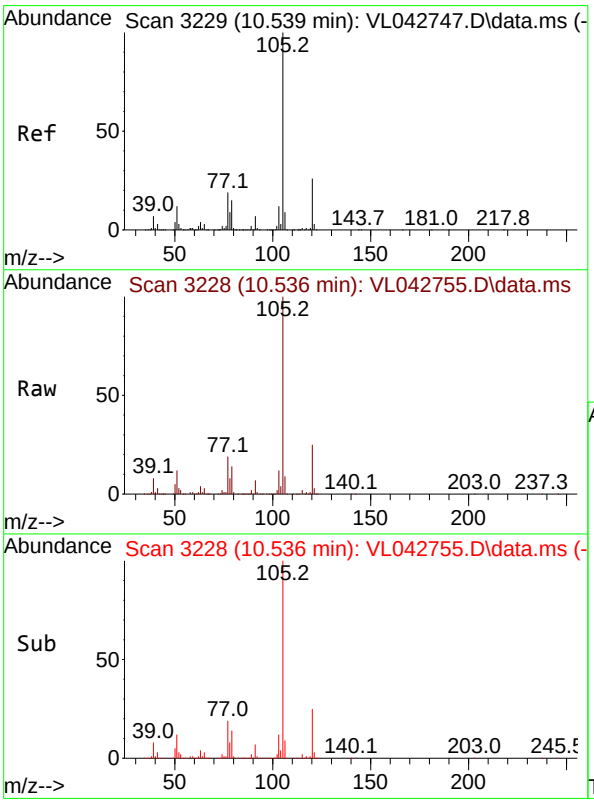
#61
Styrene
Concen: 11.185 ppbv
RT: 9.866 min Scan# 3(
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:104 Resp: 225799

Ion	Ratio	Lower	Upper
104	100		
78	51.9	41.5	62.3
103	46.0	37.5	56.3

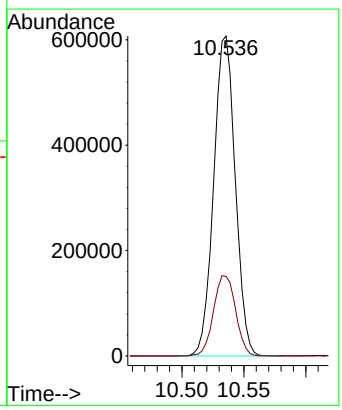


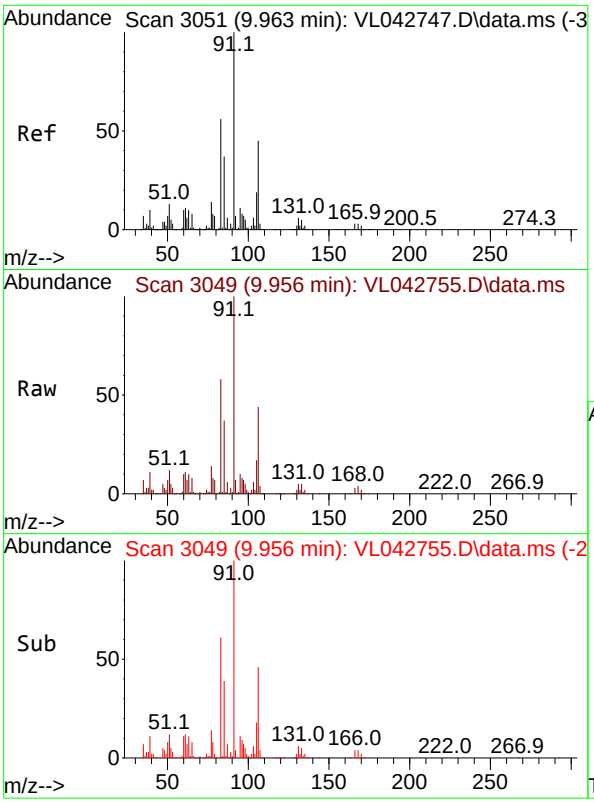


#62
Isopropylbenzene
Concen: 10.398 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 736044

Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.5	30.7



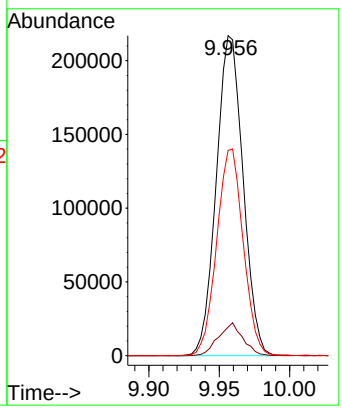


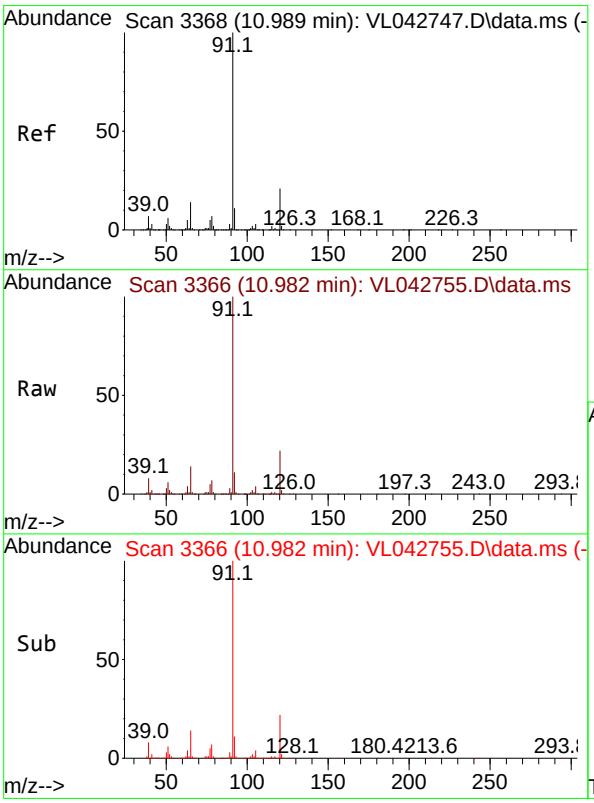
#63
1,1,2,2-Tetrachloroethane
Concen: 9.340 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 83 Resp: 287775

Ion	Ratio	Lower	Upper
83	100		
131	9.4	5.0	15.0
85	64.0	32.6	97.7

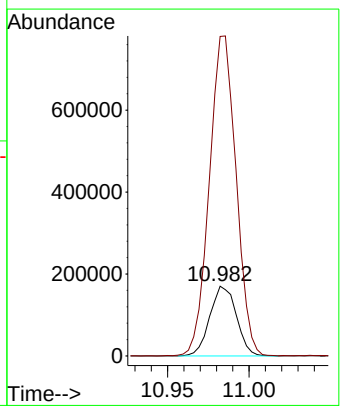


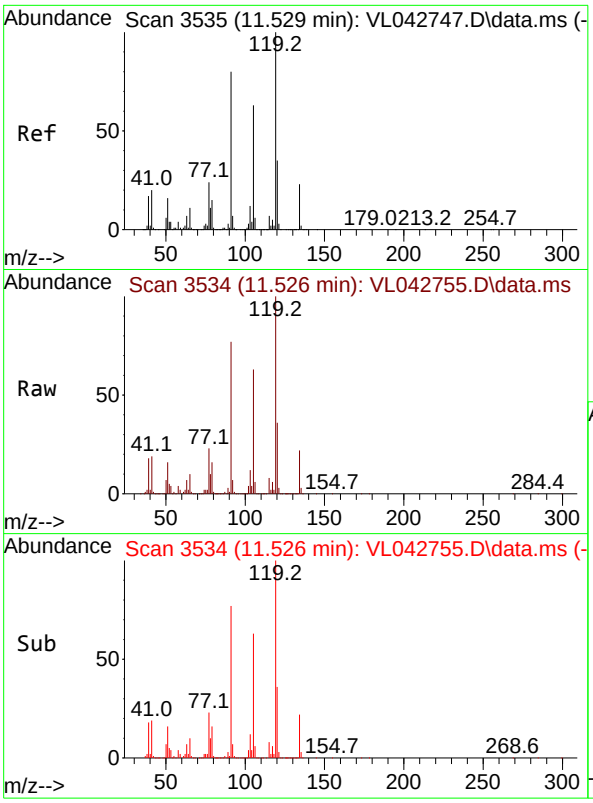


#64
n-propylbenzene
Concen: 10.460 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:120 Resp: 193034

Ion	Ratio	Lower	Upper
120	100		
91	461.7	372.7	559.1



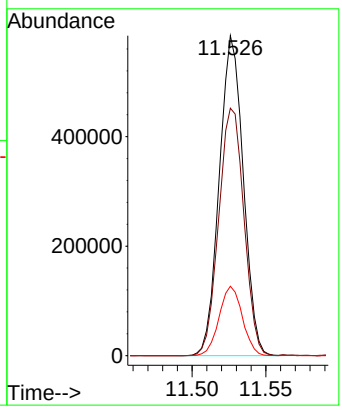


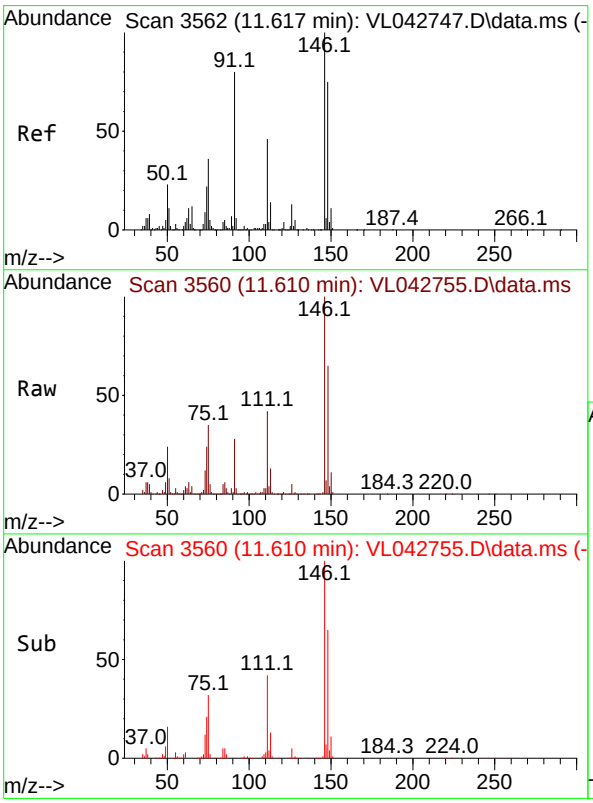
#65
tert-Butylbenzene
Concen: 10.512 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:119 Resp: 660966

Ion	Ratio	Lower	Upper
119	100		
91	81.2	64.0	96.0
134	21.1	17.3	25.9

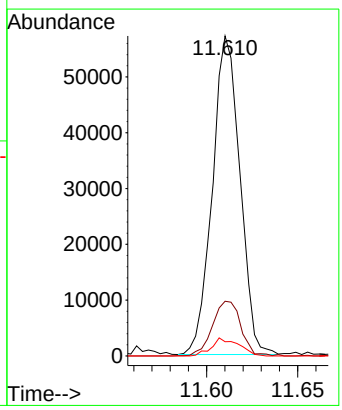


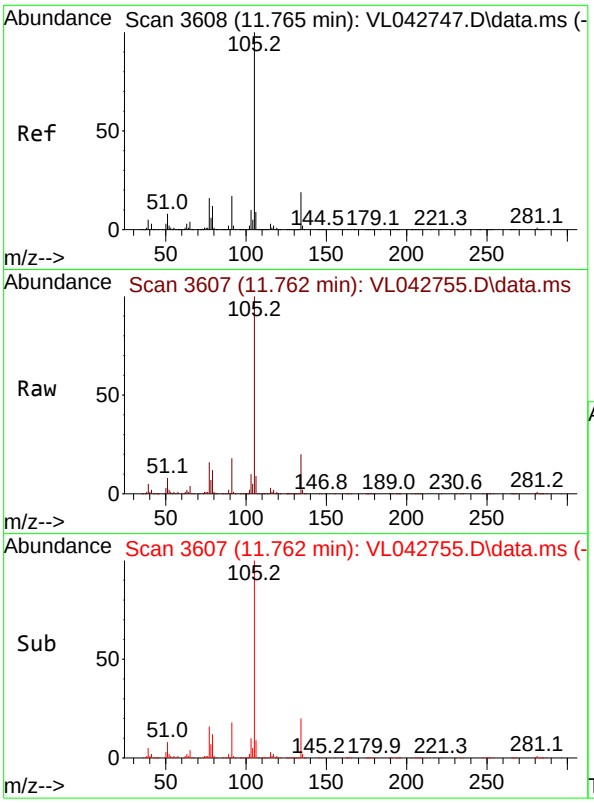


#66
Benzyl Chloride
Concen: 11.634 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 60055

Ion	Ratio	Lower	Upper
91	100		
126	17.7	14.4	21.6
128	5.6	5.2	7.8



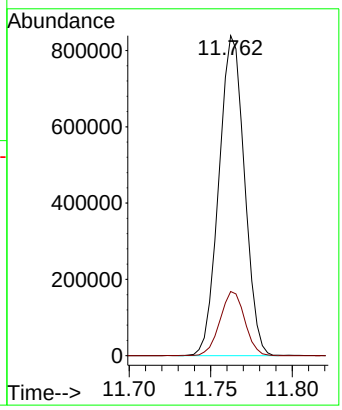


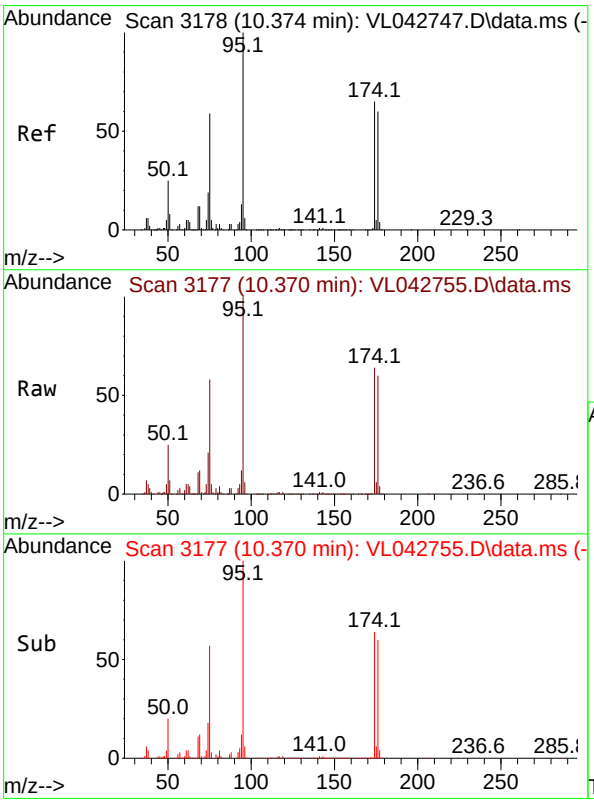
#67
sec-Butylbenzene
Concen: 10.221 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:105 Resp: 914046

Ion	Ratio	Lower	Upper
105	100		
134	19.5	15.5	23.3

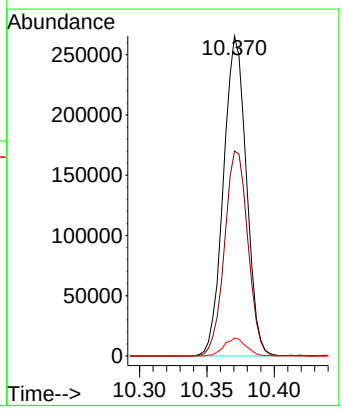


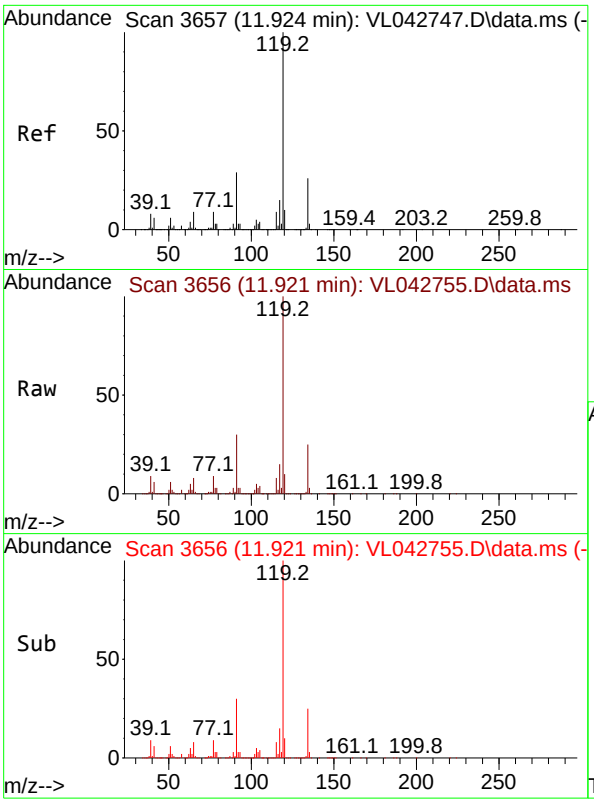


#68
1-Bromo-4-Fluorobenzene
Concen: 10.397 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 95 Resp: 313324

Ion	Ratio	Lower	Upper
95	100		
174	65.8	53.8	80.6
175	5.4	4.0	6.0



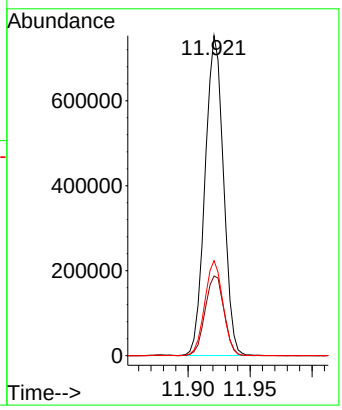


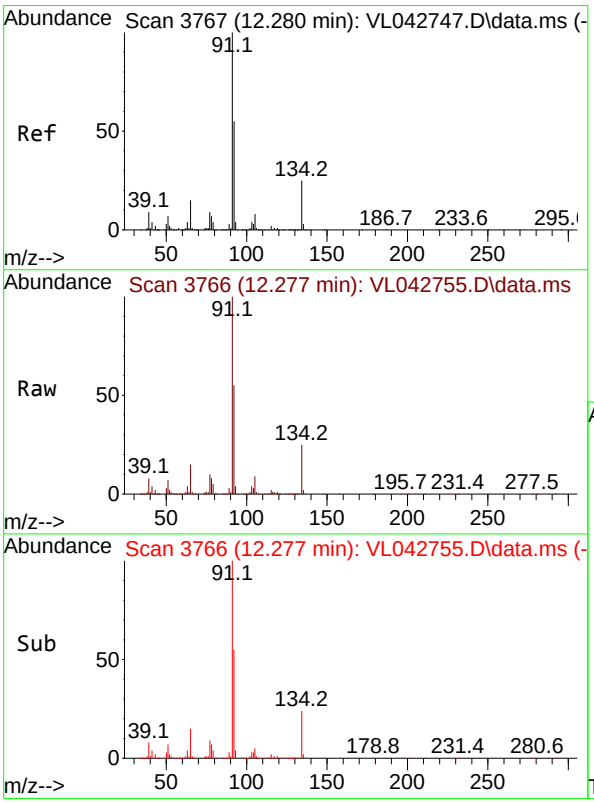
#69
p-Isopropyltoluene
Concen: 10.677 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:119 Resp: 778601

Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.6	31.0
91	29.5	23.2	34.8

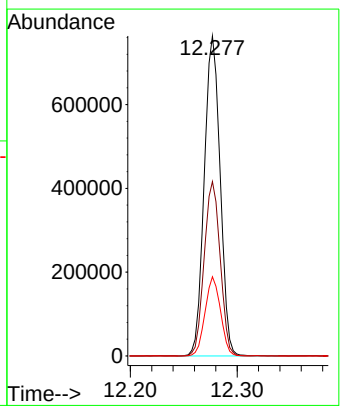


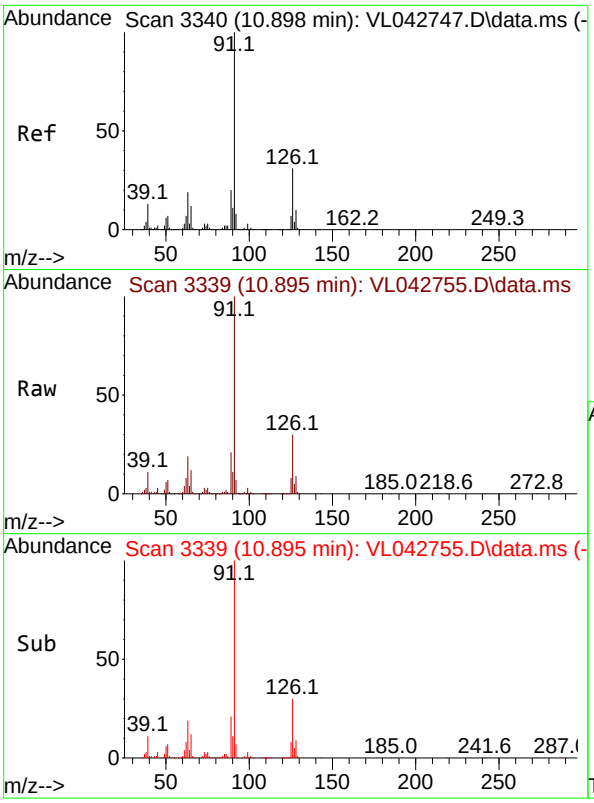


#70
n-Butylbenzene
Concen: 11.197 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 788734

Ion	Ratio	Lower	Upper
91	100		
92	55.0	43.4	65.2
134	24.1	19.6	29.4



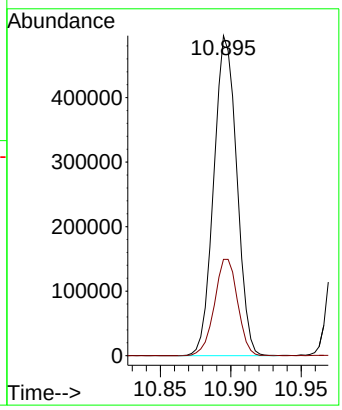


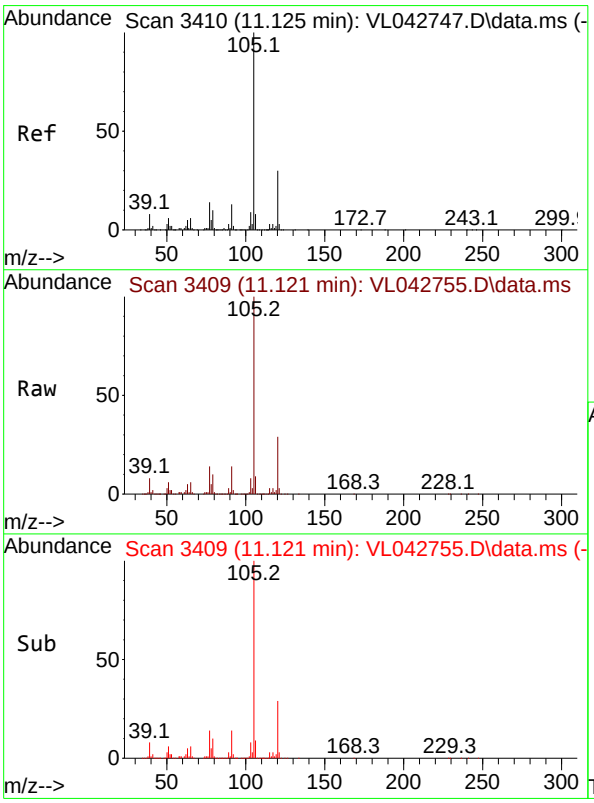
#71
2-Chlorotoluene
Concen: 10.376 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 91 Resp: 563193

Ion	Ratio	Lower	Upper
91	100		
126	30.4	12.0	48.2

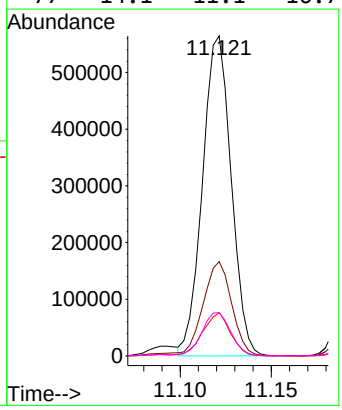


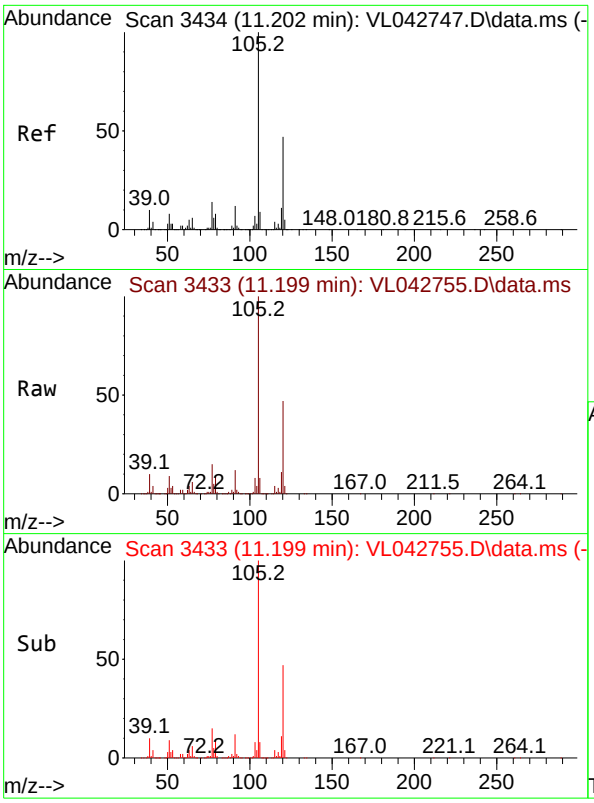


#72
4-Ethyltoluene
Concen: 10.772 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 617355

Ion	Ratio	Lower	Upper
105	100		
120	30.2	24.4	36.6
91	13.4	10.6	15.8
77	14.1	11.1	16.7



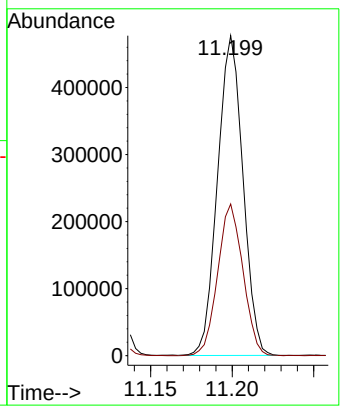


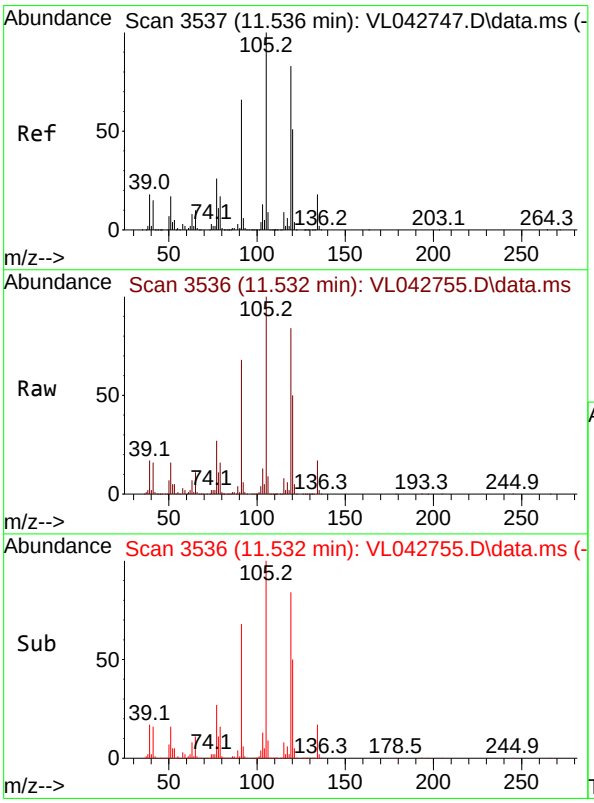
#73
1,3,5-Trimethylbenzene
Concen: 10.951 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:105 Resp: 516735

Ion	Ratio	Lower	Upper
105	100		
120	47.5	37.8	56.8

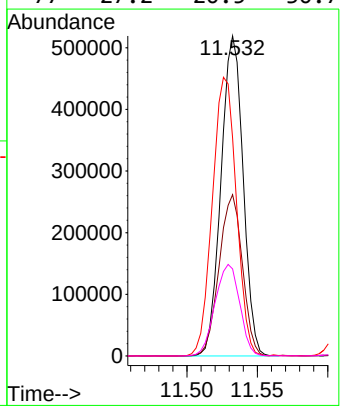


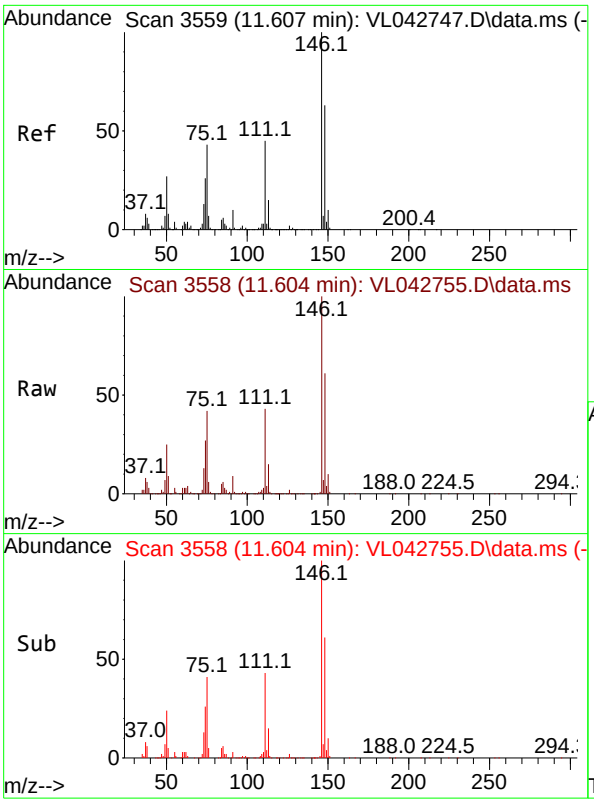


#74
1,2,4-Trimethylbenzene
Concen: 11.017 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 567186

Ion	Ratio	Lower	Upper
105	100		
120	50.4	40.8	61.2
91	68.1	53.0	79.4
77	27.2	20.5	30.7



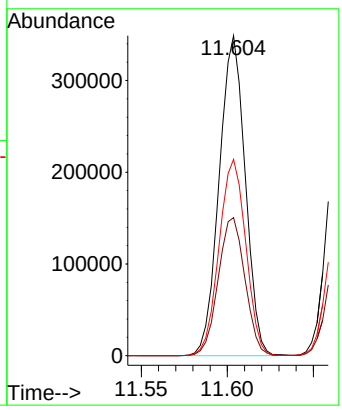


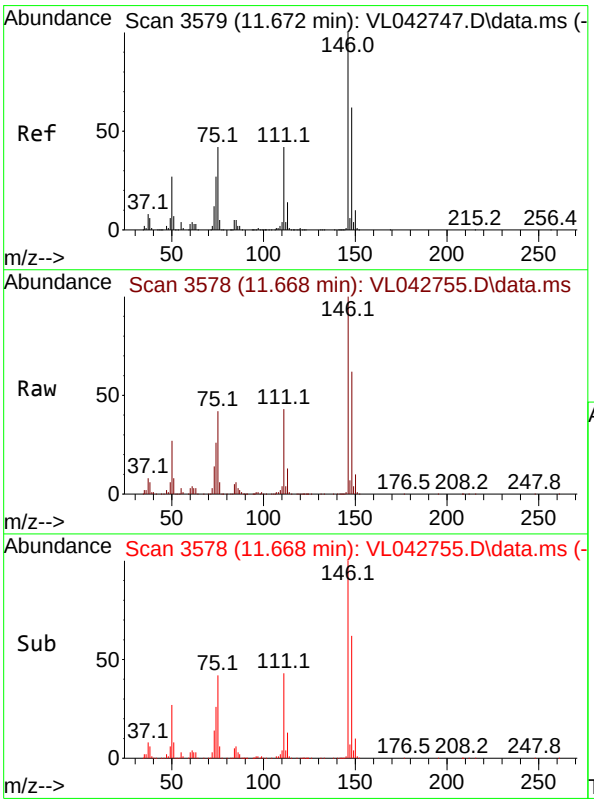
#75
1,3-Dichlorobenzene
Concen: 10.165 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:146 Resp: 366855

Ion	Ratio	Lower	Upper
146	100		
111	44.3	22.7	68.0
148	63.1	31.9	95.5

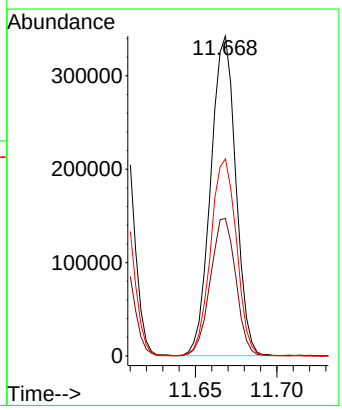


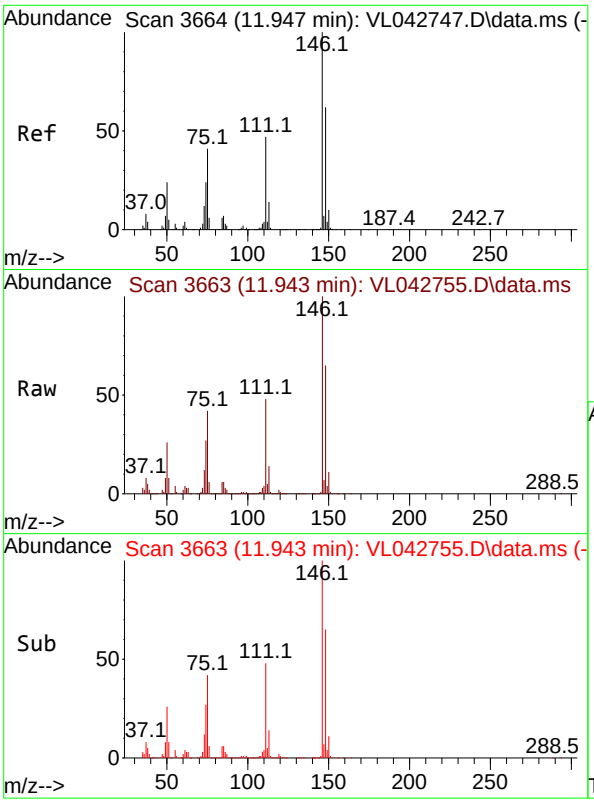


#76
1,4-Dichlorobenzene
Concen: 10.333 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:146 Resp: 364937

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.4	64.2
148	63.8	32.1	96.3



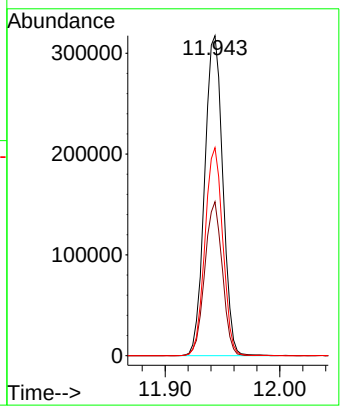


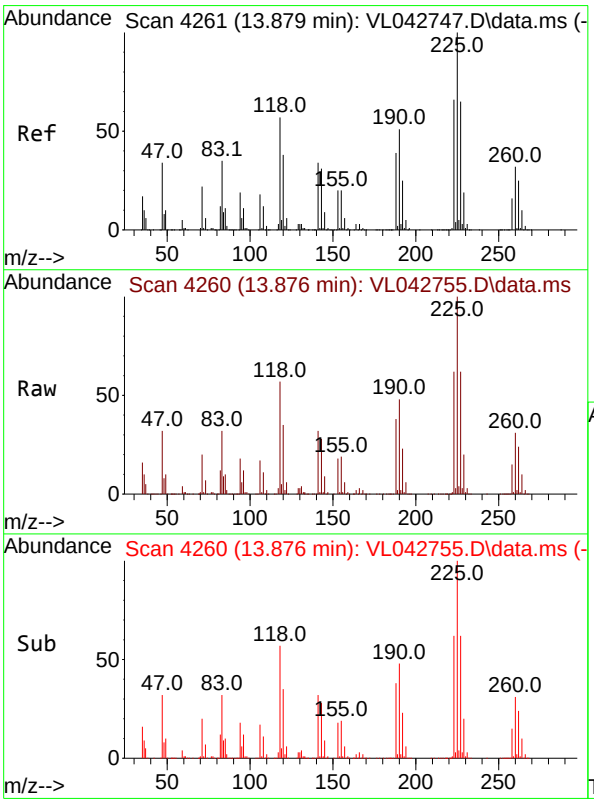
#77
1,2-Dichlorobenzene
Concen: 9.839 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:146 Resp: 348999

Ion	Ratio	Lower	Upper
146	100		
111	46.7	23.7	71.1
148	63.8	32.6	97.7

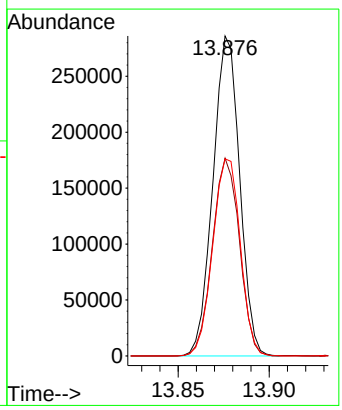


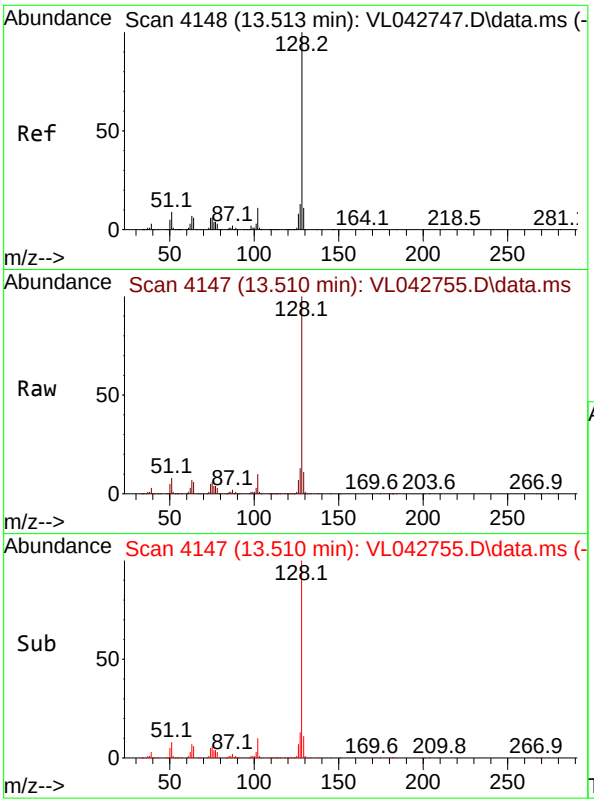


#78
Hexachloro-1,3-Butadiene
Concen: 9.091 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:225 Resp: 291861

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.7	76.1
227	63.5	50.5	75.7



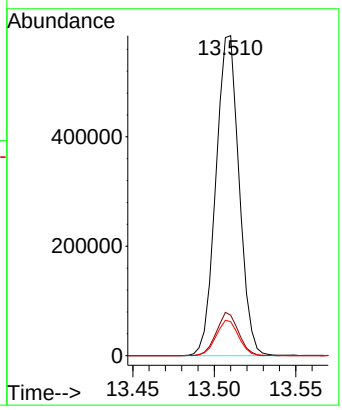


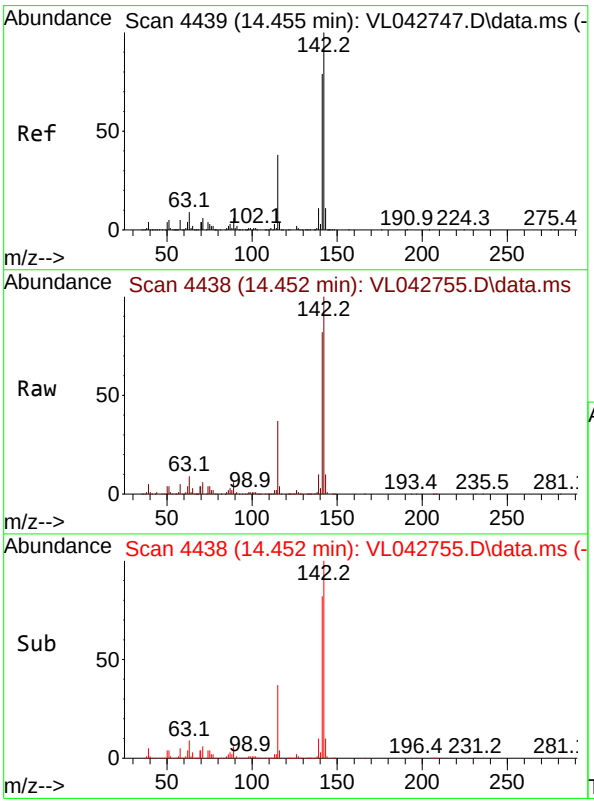
#79
Naphthalene
Concen: 10.342 ppbv
RT: 13.510 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:128 Resp: 578563

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.6	8.6	13.0

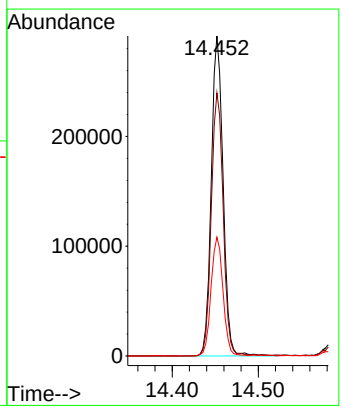


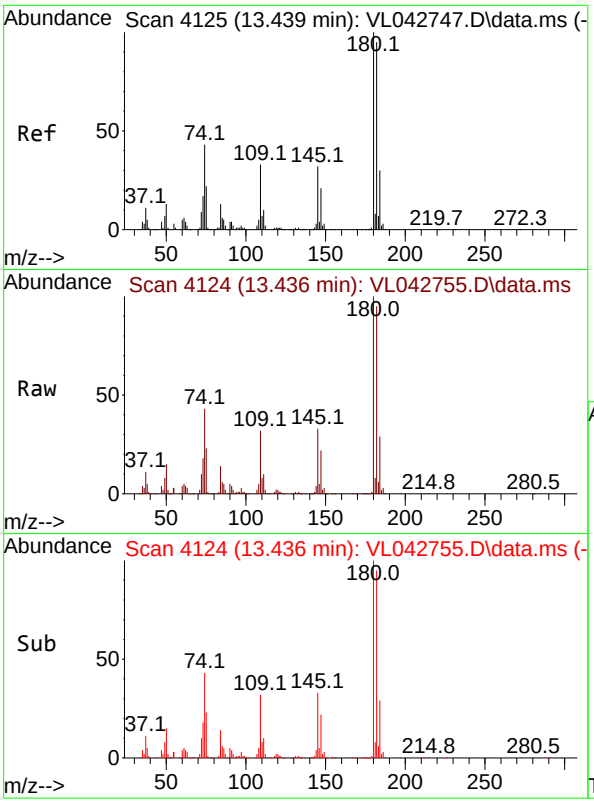


#80
Naphthalene,2-methyl-
Concen: 9.951 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:142 Resp: 277798

Ion	Ratio	Lower	Upper
142	100		
141	83.6	65.8	98.8
115	38.2	31.2	46.8



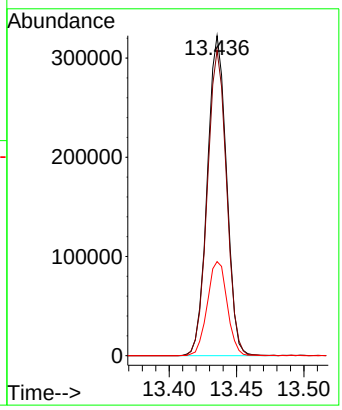


#81
1,2,4-Trichlorobenzene
Concen: 10.181 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:180 Resp: 319897

Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.2	114.2
184	30.5	24.8	37.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042796.D
Acq On : 04 Aug 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: Aug 05 00:59:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	156307	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	426613	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	380017	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	310203	10.307	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	207208	10.026	ppbv	99
3) Chlorodifluoromethane	1.477	51	277069	10.292	ppbv	99
4) Chloromethane	1.532	50	83684	10.009	ppbv	99
5) Vinyl Chloride	1.580	62	76360	9.244	ppbv	96
6) Bromomethane	1.667	94	32753	10.256	ppbv	97
7) Chloroethane	1.703	64	31751	9.948	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	169380	9.966	ppbv	96
9) Propene	1.483	41	100258	10.247	ppbv	99
10) Heptane	4.975	43	288665	10.942	ppbv	99
11) Trichlorofluoromethane	1.878	101	217635	10.216	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.137	101	163050	10.072	ppbv	98
13) Ethanol	1.719	45	7381	9.208	ppbv	100
14) Bromoethene	1.781	108	59854	10.443	ppbv	98
15) Acetone	1.833	43	176712	8.187	ppbv	100
16) 1,3-Butadiene	1.609	39	89788	9.753	ppbv	100
17) tert-Butyl alcohol	2.040	59	195134	10.024	ppbv	99
18) 1,1-Dichloroethene	2.033	96	73240	10.013	ppbv	98
19) Isopropyl Alcohol	1.884	45	113543	9.899	ppbv	98
20) Methylene Chloride	2.062	84	61661	9.066	ppbv	88
21) Allyl Chloride	2.095	41	141580	10.643	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	80528	10.234	ppbv	98
23) Vinyl Acetate	2.460	43	286954	10.966	ppbv	99
24) 1,1-Dichloroethane	2.409	63	166989	10.340	ppbv	99
25) Ethyl Acetate	2.833	43	517370	10.829	ppbv	99
26) Hexane	2.826	57	221546	10.571	ppbv	98
27) Carbon Disulfide	2.150	76	199042	11.094	ppbv	96
28) Methyl tert-Butyl Ether	2.438	73	93108	9.404	ppbv	99
29) Chloroform	2.846	83	340691	10.520	ppbv	98
30) Cyclohexane	3.855	84	181209	10.195	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	218880	10.164	ppbv	97
32) 1,1,1-Trichloroethane	3.367	97	335591	9.948	ppbv	99
34) 2-Butanone	2.554	43	342346	11.329	ppbv	99
35) Carbon Tetrachloride	3.762	117	351173	11.082	ppbv	98
36) Benzene	3.655	78	439144	10.861	ppbv	98
37) 1,2-Dichloroethane	3.215	62	268448	11.022	ppbv	100
38) Trichloroethene	4.548	130	198489	10.219	ppbv	96
39) 1,2-Dichloropropane	4.309	63	161604	10.828	ppbv	97
40) 1,4-Dioxane	4.577	88	70550	10.142	ppbv #	98
41) Tetrahydrofuran	3.053	42	179539	11.676	ppbv	99
42) Bromodichloromethane	4.487	83	368522	11.618	ppbv	99
43) Methyl Methacrylate	4.875	69	166622	11.594	ppbv	98
44) 2,2,4-Trimethylpentane	4.639	57	754946	11.456	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	185713	11.524	ppbv	96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042796.D
Acq On : 04 Aug 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: Aug 05 00:59:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

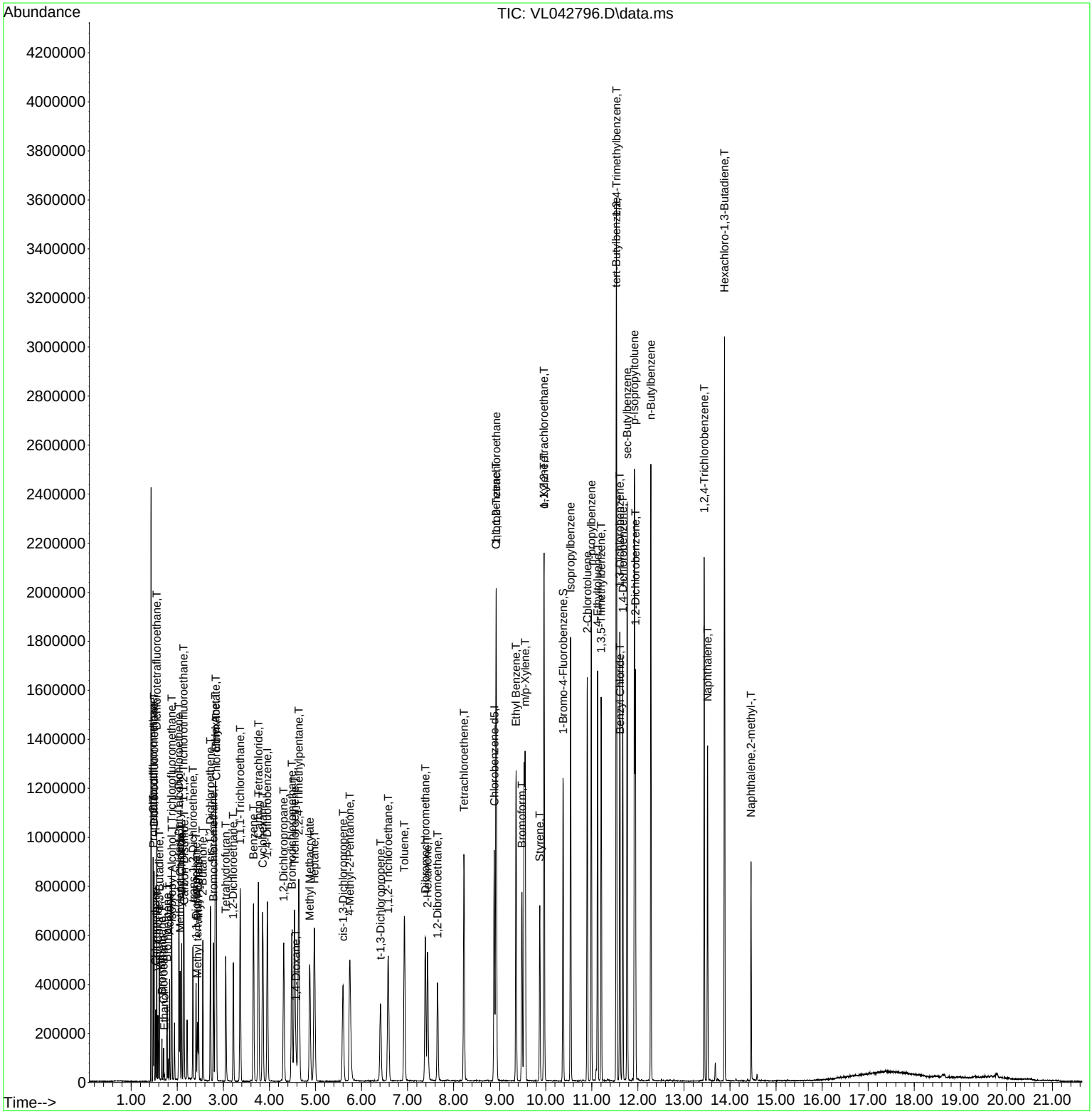
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	240949	11.799	ppbv		96
47) 1,1,2-Trichloroethane	6.577	97	176245	11.078	ppbv		96
48) Dibromochloromethane	7.387	129	301910	11.954	ppbv		98
49) Bromoform	9.481	173	262767	11.932	ppbv		98
50) 4-Methyl-2-Pentanone	5.746	43	453959	11.662	ppbv		99
51) 2-Hexanone	7.432	43	360580	12.258	ppbv	#	99
52) Tetrachloroethene	8.225	164	162318	9.686	ppbv		97
53) Toluene	6.930	91	489672	11.278	ppbv		100
54) 1,2-Dibromoethane	7.649	107	250956	11.165	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.924	131	226803	11.479	ppbv		99
57) Chlorobenzene	8.921	112	397515	10.808	ppbv		98
58) Ethyl Benzene	9.354	91	692150	11.533	ppbv		99
59) m/p-Xylene	9.552	91	510426	10.643	ppbv	#	17
60) o-Xylene	9.963	91	571988	11.935	ppbv		98
61) Styrene	9.869	104	235848	11.699	ppbv		99
62) Isopropylbenzene	10.539	105	813285	11.505	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.963	83	327594	10.647	ppbv		100
64) n-propylbenzene	10.989	120	212922	11.553	ppbv		97
65) tert-Butylbenzene	11.533	119	730489	11.633	ppbv		100
66) Benzyl Chloride	11.614	91	70588	13.694	ppbv		98
67) sec-Butylbenzene	11.769	105	1015003	11.365	ppbv		99
69) p-Isopropyltoluene	11.924	119	875506	12.023	ppbv		99
70) n-Butylbenzene	12.280	91	882533	12.546	ppbv		100
71) 2-Chlorotoluene	10.902	91	623268	11.499	ppbv		99
72) 4-Ethyltoluene	11.125	105	685255	11.973	ppbv		100
73) 1,3,5-Trimethylbenzene	11.203	105	572173	12.142	ppbv		99
74) 1,2,4-Trimethylbenzene	11.536	105	635314	12.358	ppbv		98
75) 1,3-Dichlorobenzene	11.607	146	412343	11.441	ppbv		99
76) 1,4-Dichlorobenzene	11.672	146	411896	11.679	ppbv		99
77) 1,2-Dichlorobenzene	11.947	146	393333	11.104	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	317563	9.905	ppbv		99
79) Naphthalene	13.514	128	609718	10.889	ppbv		99
80) Naphthalene,2-methyl-	14.455	142	237582	8.684	ppbv		98
81) 1,2,4-Trichlorobenzene	13.439	180	343523	10.915	ppbv		99

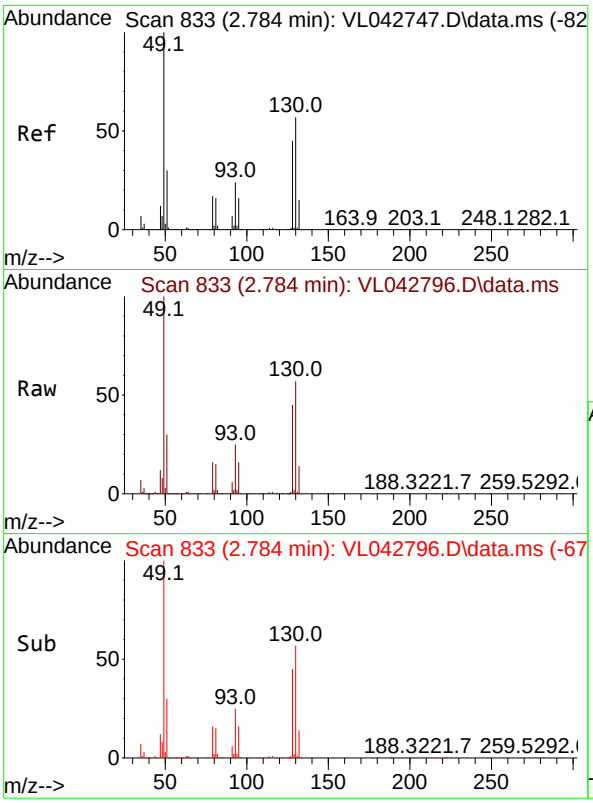
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042796.D
Acq On : 04 Aug 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: Aug 05 00:59:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



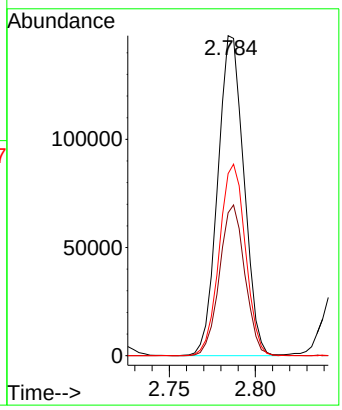


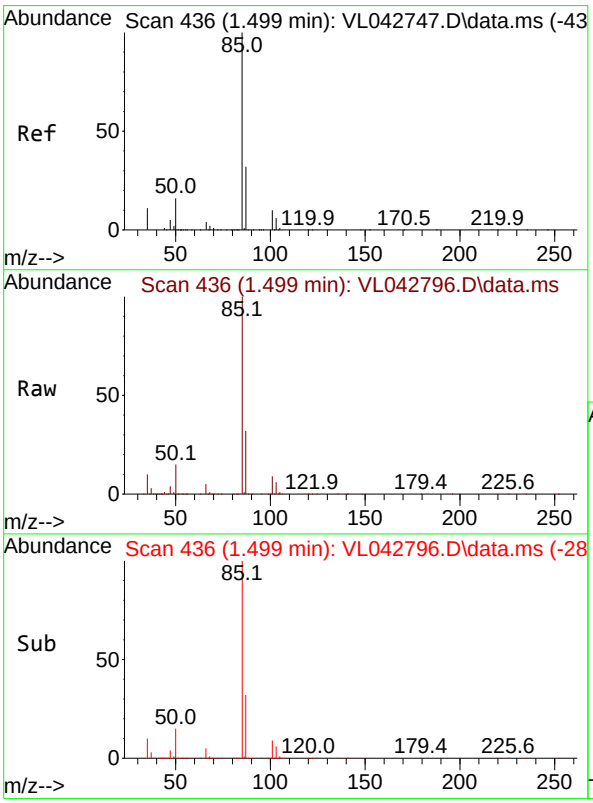
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 156307

Ion	Ratio	Lower	Upper
49	100		
128	45.7	23.6	71.0
130	59.8	30.3	90.8

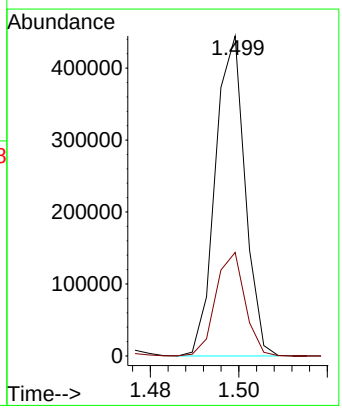


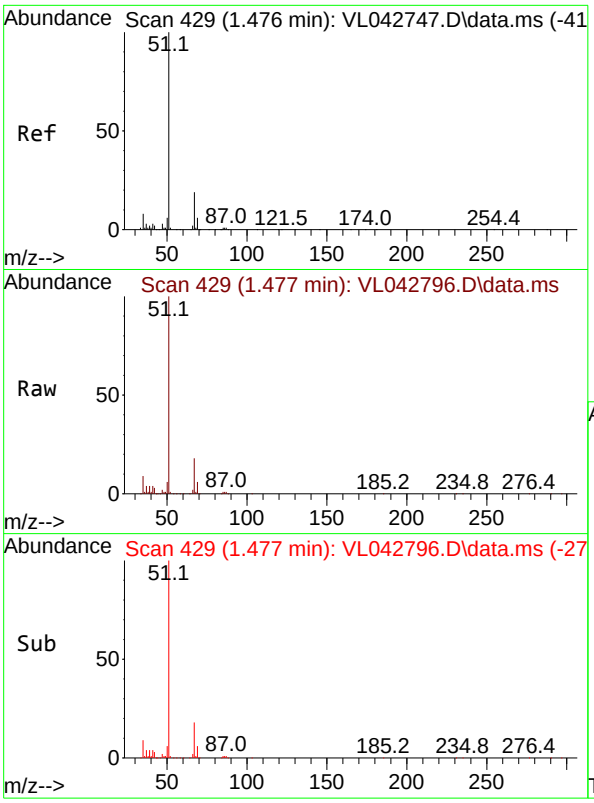


#2
Dichlorodifluoromethane
Concen: 10.026 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 85 Resp: 207208

Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.4	38.2



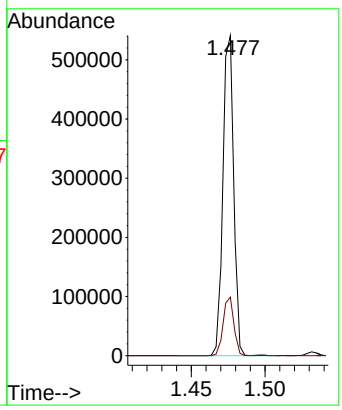


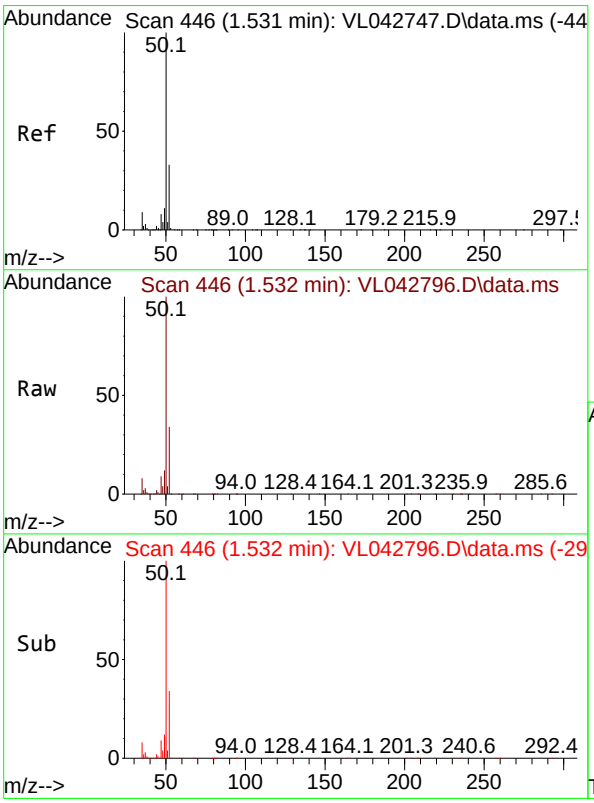
#3
Chlorodifluoromethane
Concen: 10.292 ppbv
RT: 1.477 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 277069

Ion	Ratio	Lower	Upper
51	100		
67	18.3	15.0	22.6

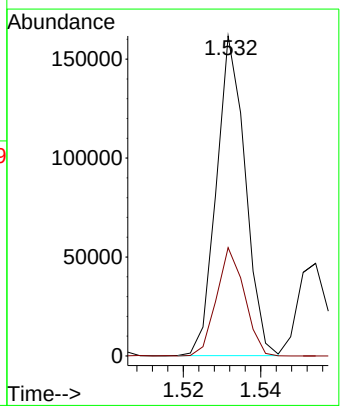


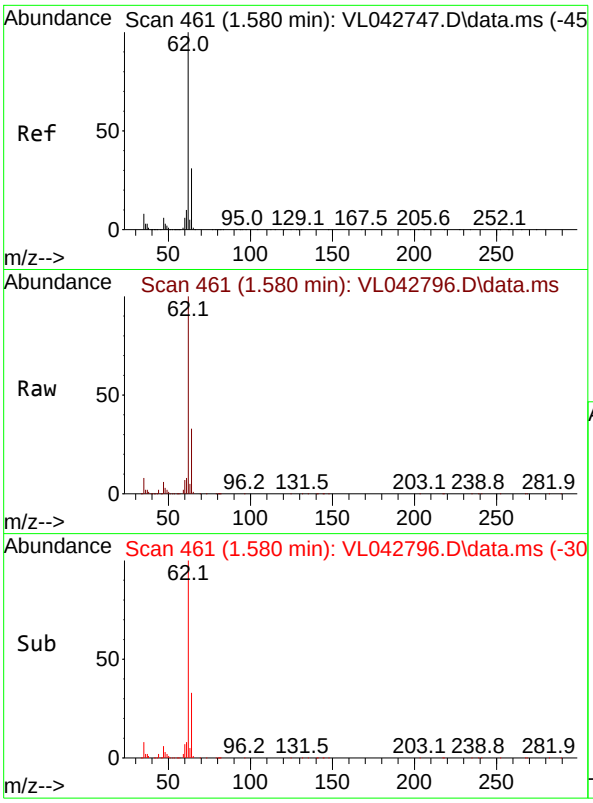


#4
Chloromethane
Concen: 10.009 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 50 Resp: 83684

Ion	Ratio	Lower	Upper
50	100		
52	33.9	26.6	40.0



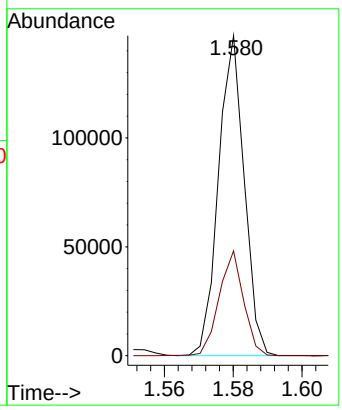


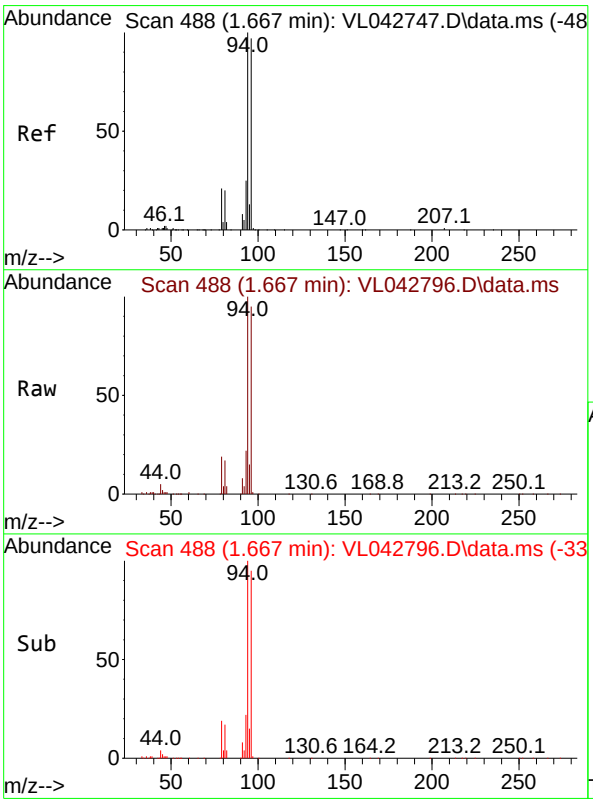
#5
Vinyl Chloride
Concen: 9.244 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 76360

Ion	Ratio	Lower	Upper
62	100		
64	32.7	24.5	36.7

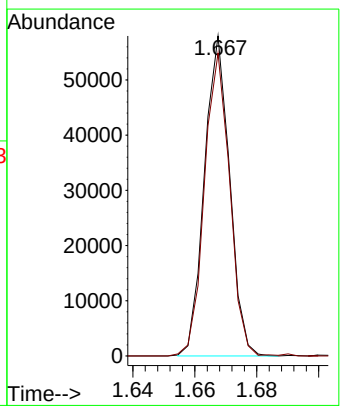


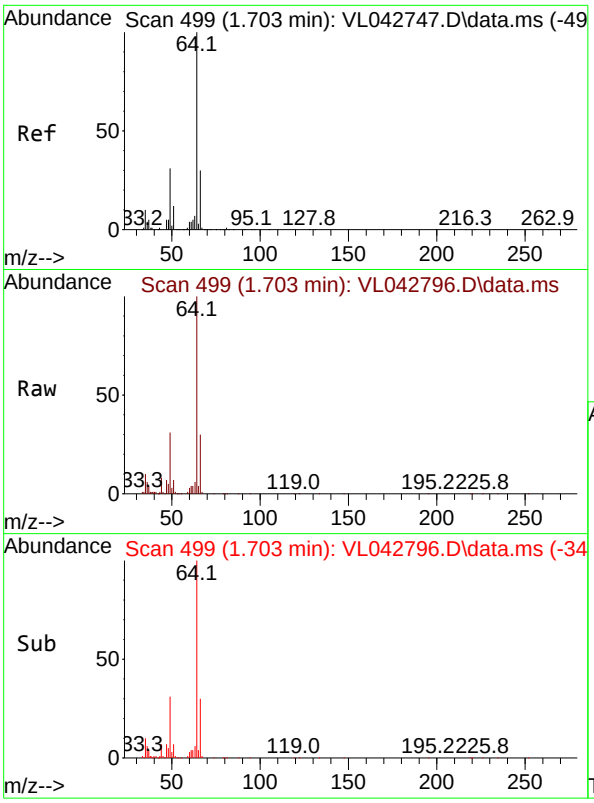


#6
Bromomethane
Concen: 10.256 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 94 Resp: 32753

Ion	Ratio	Lower	Upper
94	100		
96	94.5	77.6	116.4



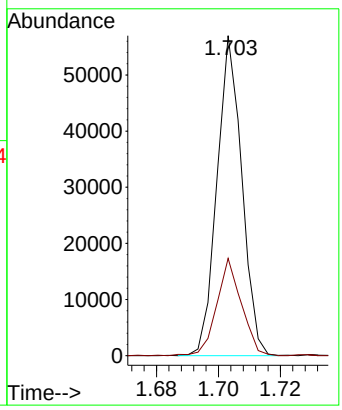


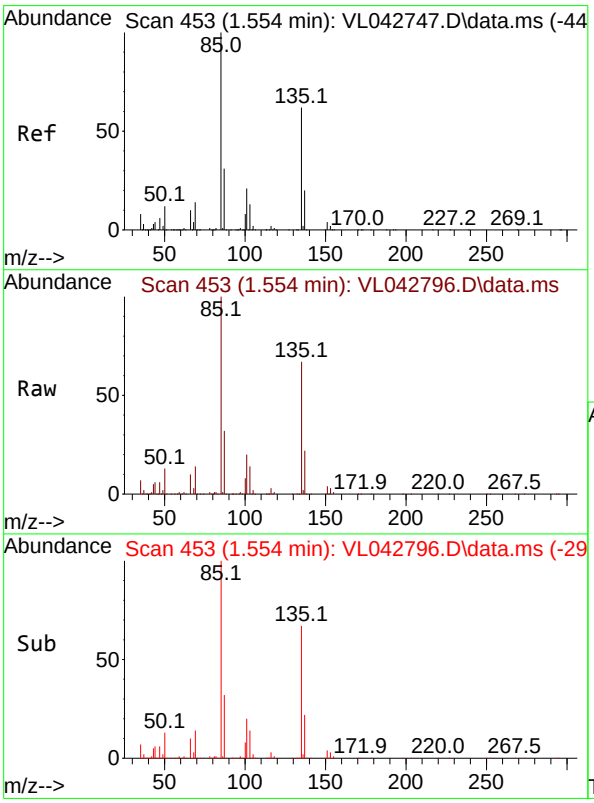
#7
Chloroethane
Concen: 9.948 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 31751

Ion	Ratio	Lower	Upper
64	100		
66	30.4	24.1	36.1

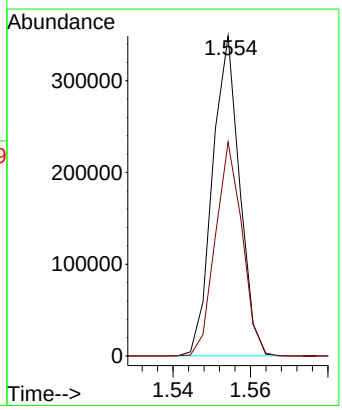


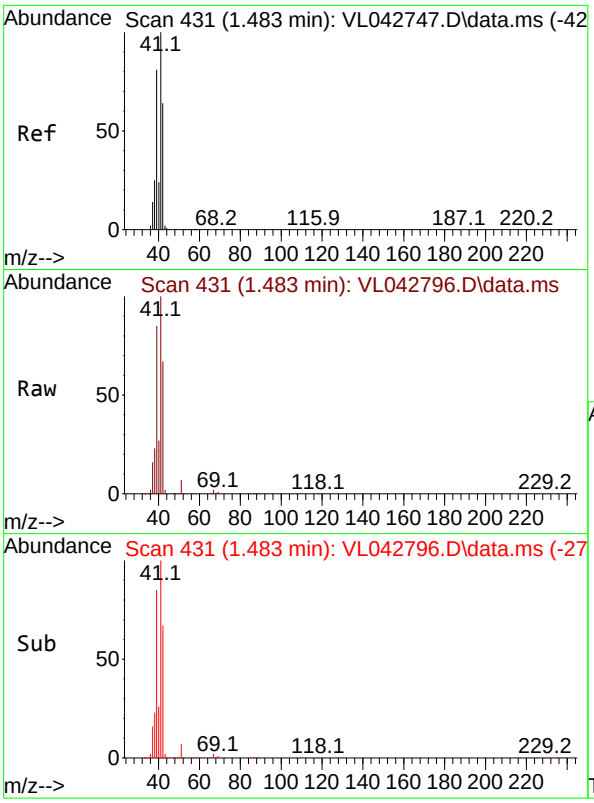


#8
Dichlorotetrafluoroethane
Concen: 9.966 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 85 Resp: 169380

Ion	Ratio	Lower	Upper
85	100		
135	66.3	50.6	76.0



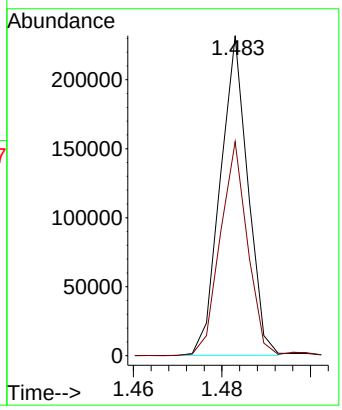


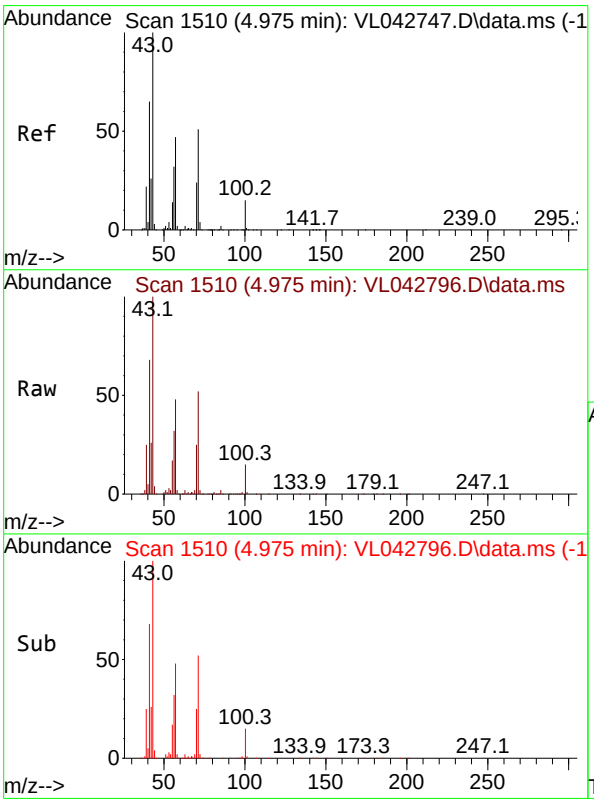
#9
Propene
Concen: 10.247 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 100258

Ion	Ratio	Lower	Upper
41	100		
42	67.5	53.2	79.8

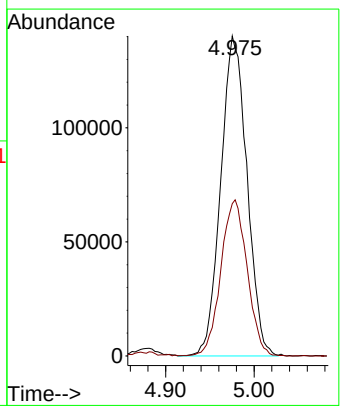


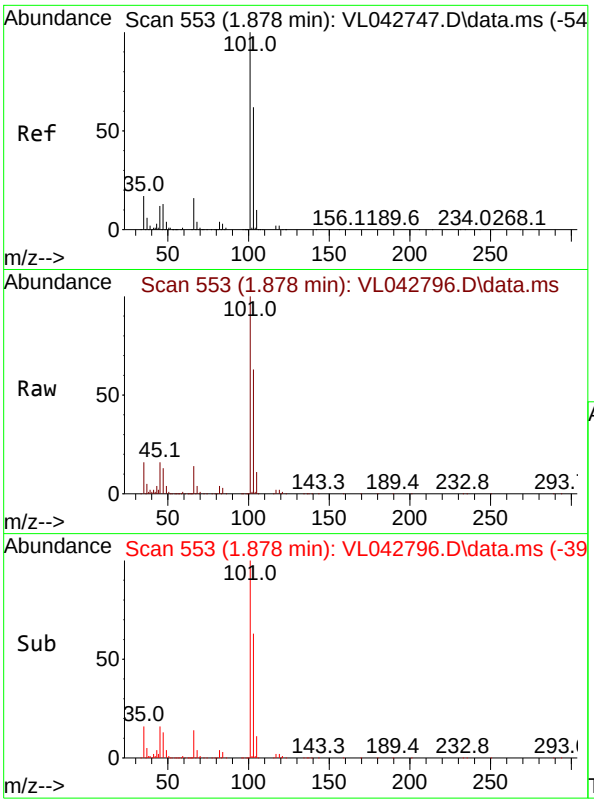


#10
Heptane
Concen: 10.942 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 43 Resp: 288665

Ion	Ratio	Lower	Upper
43	100		
57	49.0	39.9	59.9



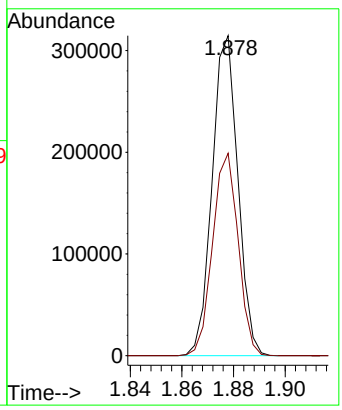


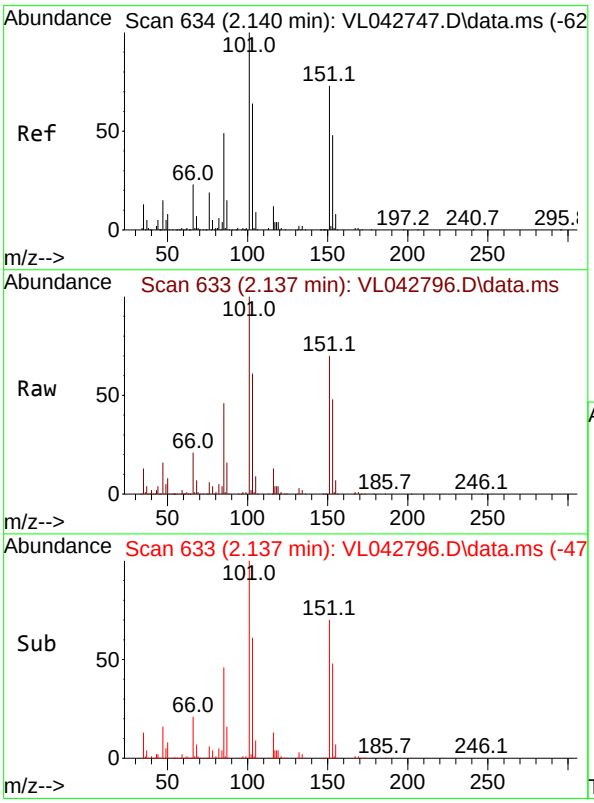
#11
Trichlorofluoromethane
Concen: 10.216 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:101 Resp: 217635

Ion	Ratio	Lower	Upper
101	100		
103	63.2	49.6	74.4

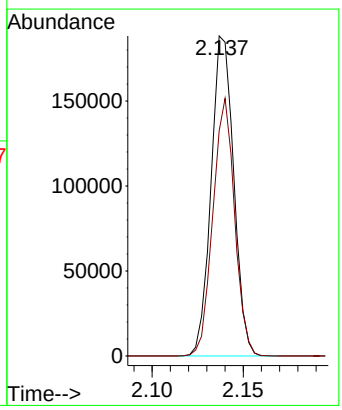


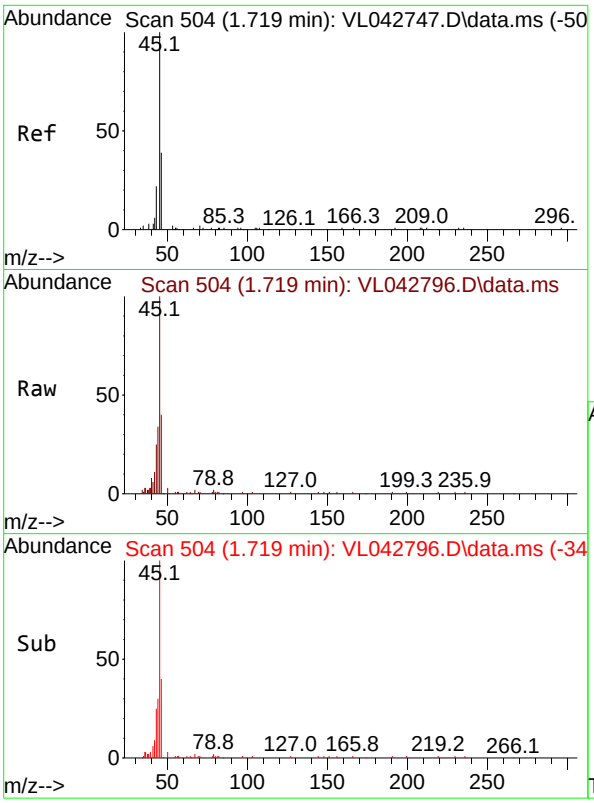


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.072 ppbv
RT: 2.137 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:101 Resp: 163050

Ion	Ratio	Lower	Upper
101	100		
151	77.1	60.5	90.7



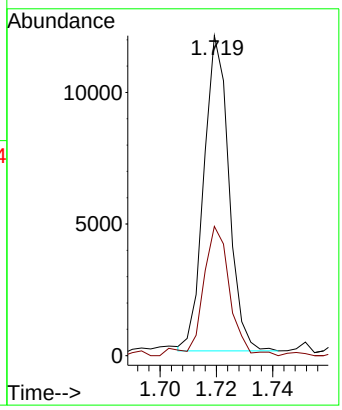


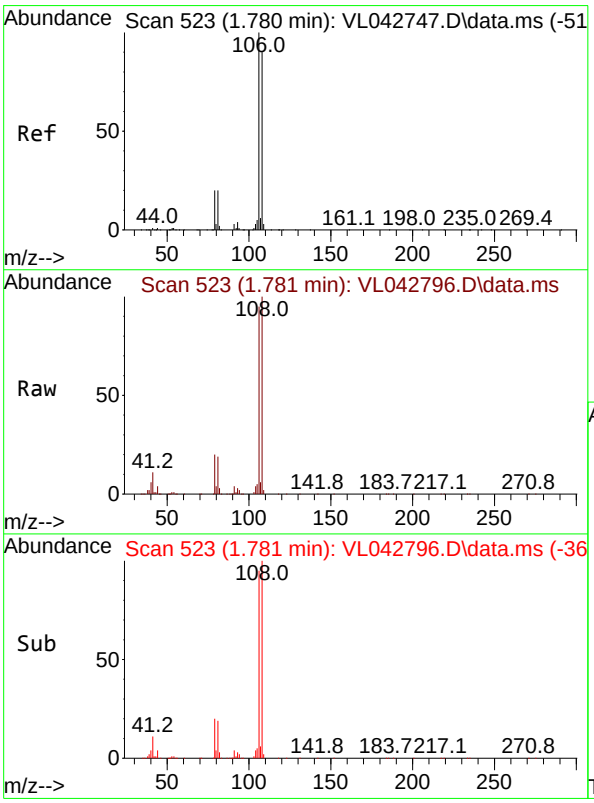
#13
Ethanol
Concen: 9.208 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 7381

Ion	Ratio	Lower	Upper
45	100		
46	44.4	17.8	71.4

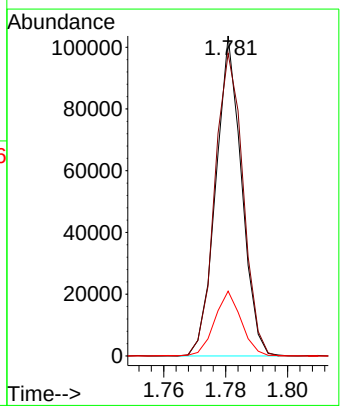


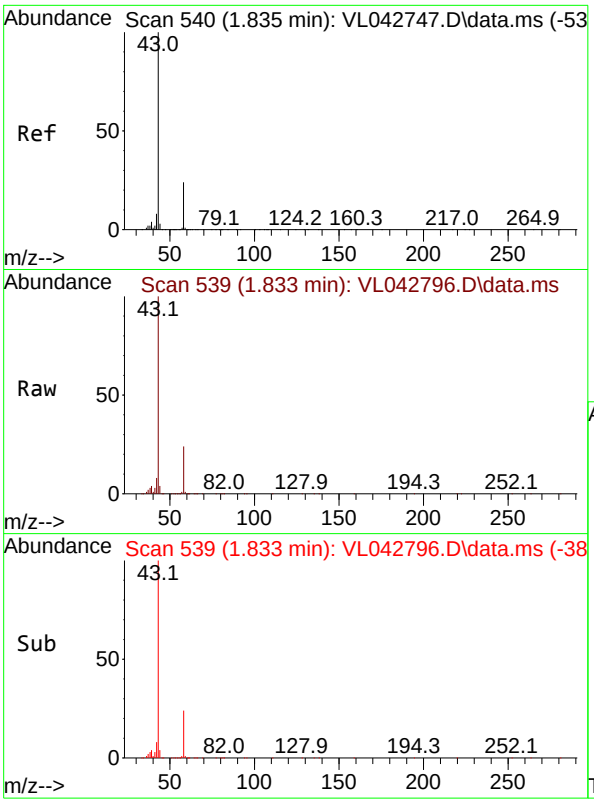


#14
Bromoethene
Concen: 10.443 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:108 Resp: 59854

Ion	Ratio	Lower	Upper
108	100		
106	103.4	84.7	127.1
79	21.0	17.4	26.2



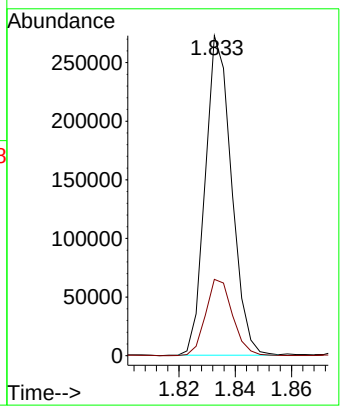


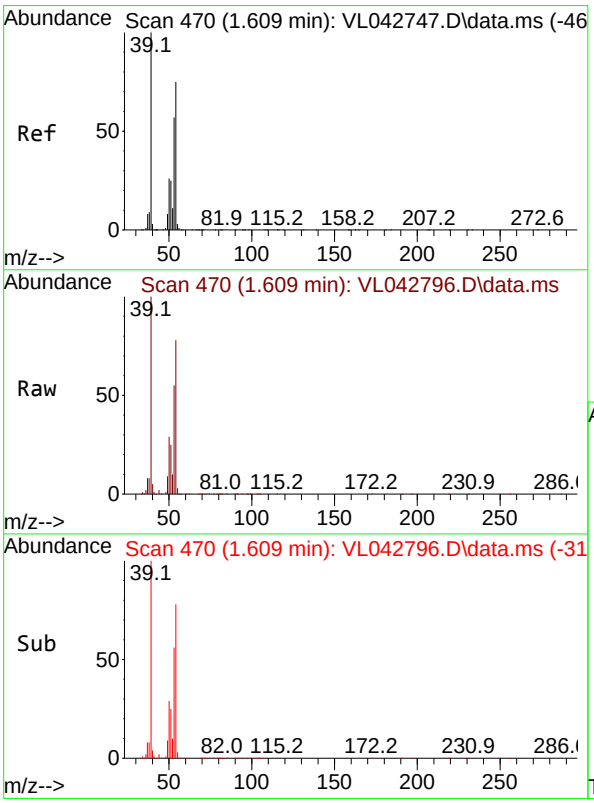
#15
Acetone
Concen: 8.187 ppbv
RT: 1.833 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 176712

Ion	Ratio	Lower	Upper
43	100		
58	24.8	19.8	29.8

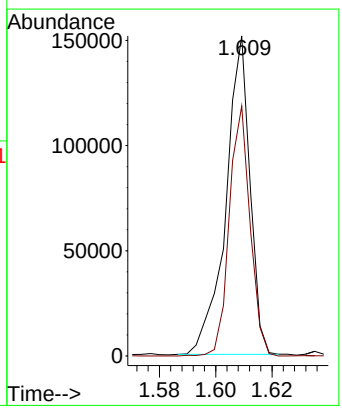


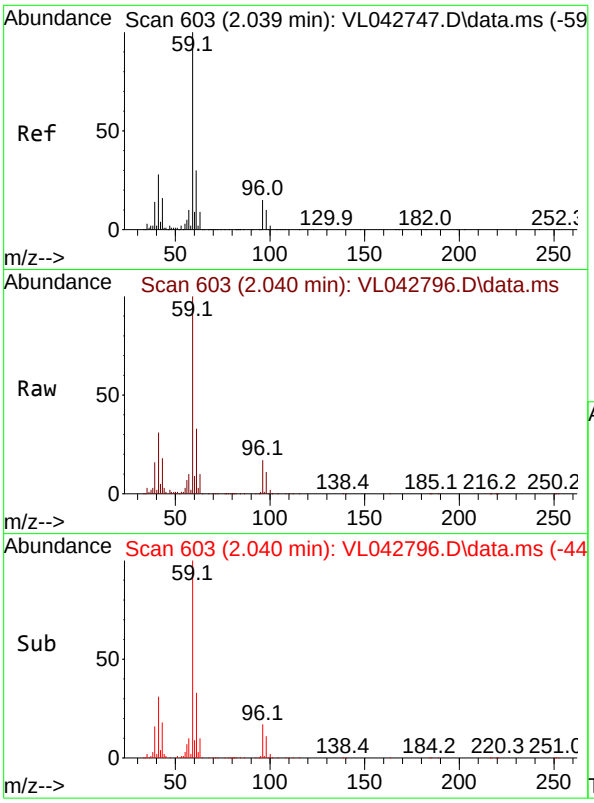


#16
1,3-Butadiene
Concen: 9.753 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 39 Resp: 89788

Ion	Ratio	Lower	Upper
39	100		
54	67.8	54.5	81.7



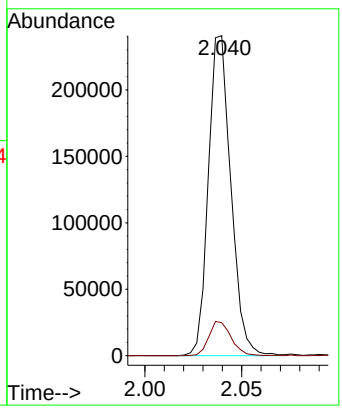


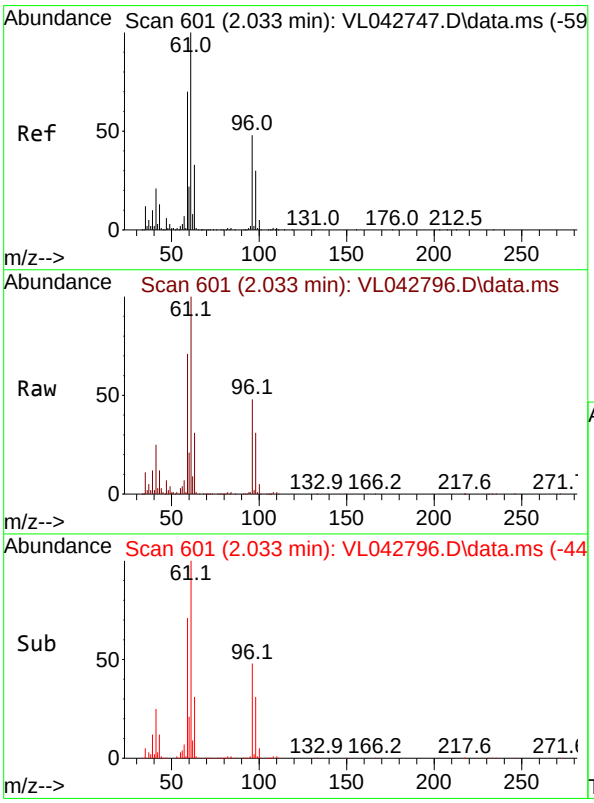
#17
tert-Butyl alcohol
Concen: 10.024 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 195134

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5

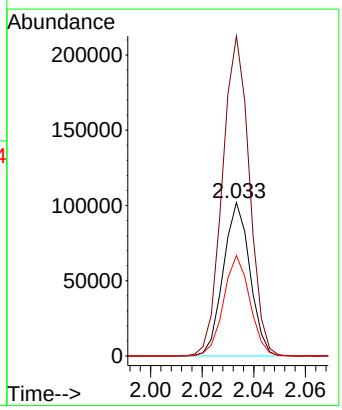


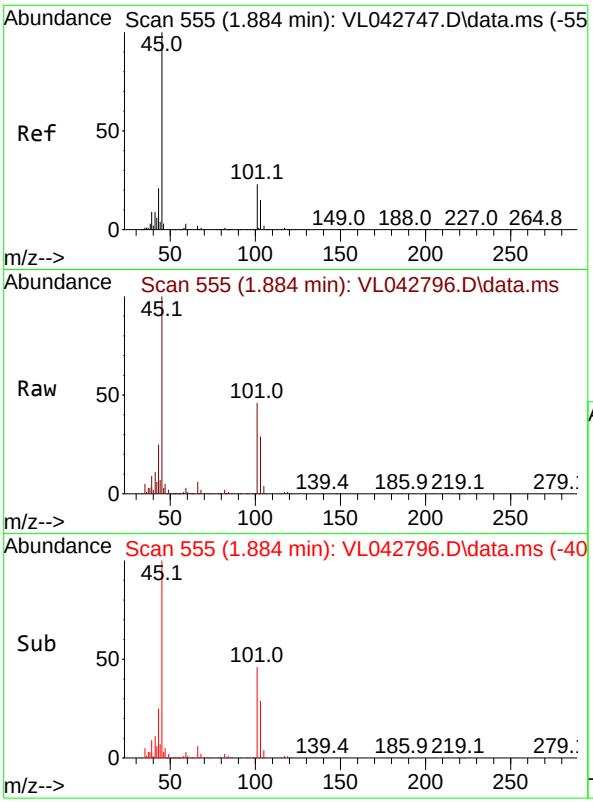


#18
1,1-Dichloroethene
Concen: 10.013 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 96 Resp: 73240

Ion	Ratio	Lower	Upper
96	100		
61	208.7	165.8	248.6
98	65.5	49.9	74.9



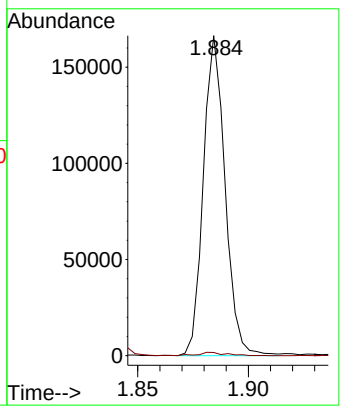


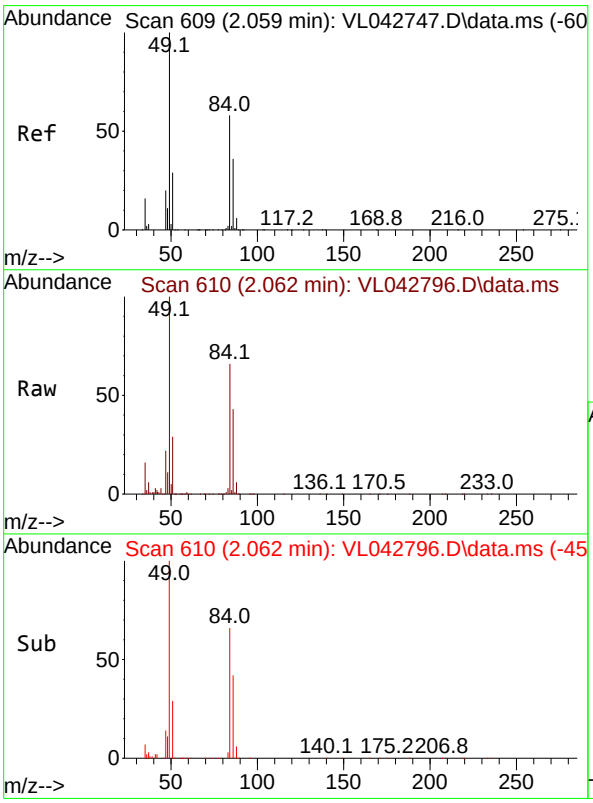
#19
Isopropyl Alcohol
Concen: 9.899 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 113543

Ion	Ratio	Lower	Upper
45	100		
58	38.5	30.0	45.0

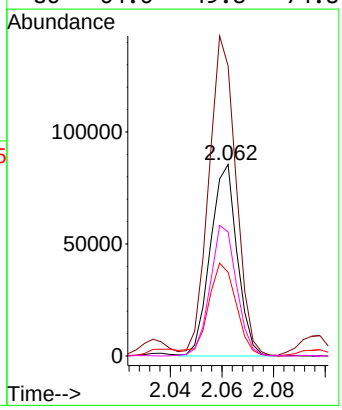


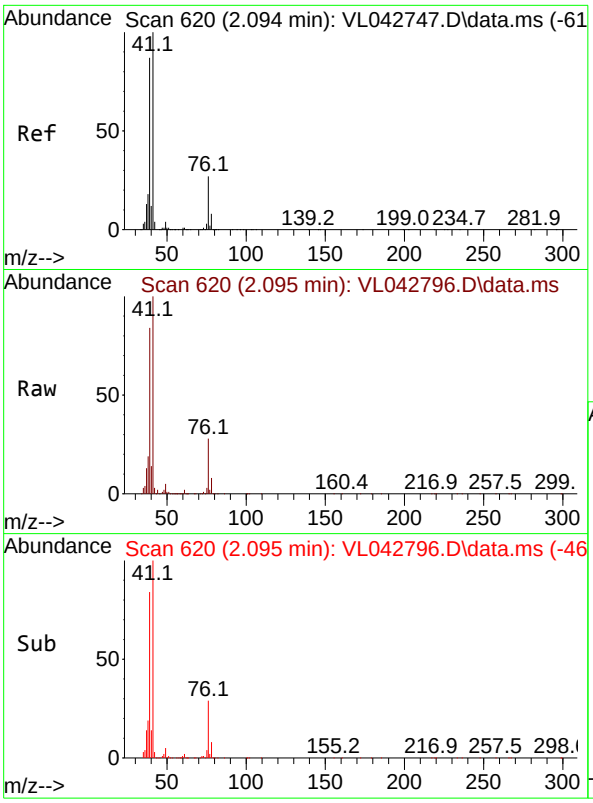


#20
Methylene Chloride
Concen: 9.066 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 84 Resp: 61661

Ion	Ratio	Lower	Upper
84	100		
49	151.0	138.6	208.0
51	43.7	40.6	61.0
86	64.6	49.8	74.8



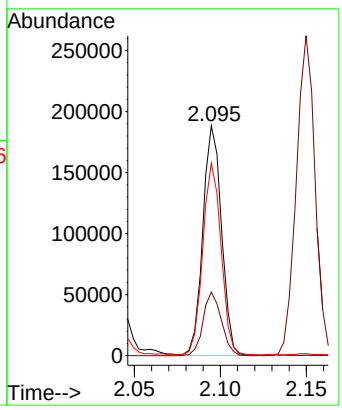


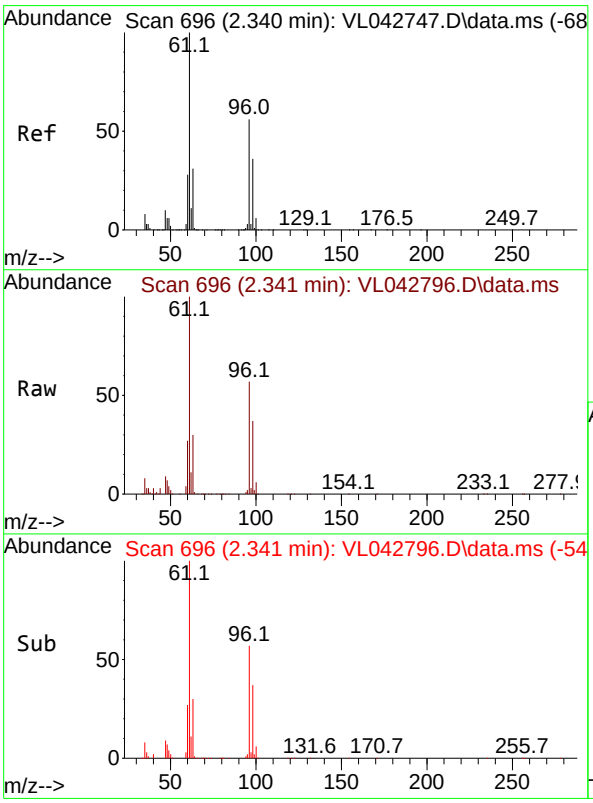
#21
Allyl Chloride
Concen: 10.643 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 141580

Ion	Ratio	Lower	Upper
41	100		
76	27.2	21.1	31.7
39	82.3	68.3	102.5

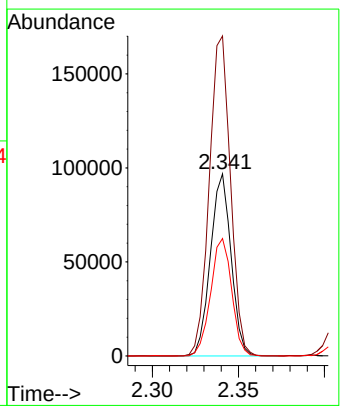


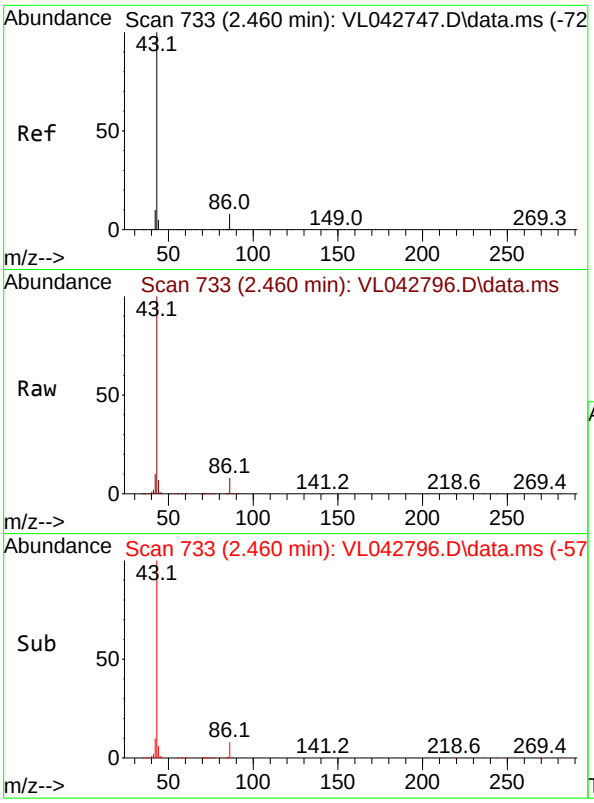


#22
trans-1,2-Dichloroethene
Concen: 10.234 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 96 Resp: 80528

Ion	Ratio	Lower	Upper
96	100		
61	175.7	142.3	213.5
98	64.5	50.6	76.0



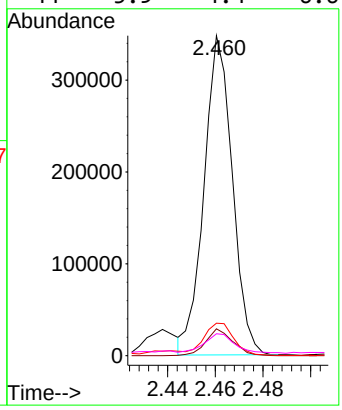


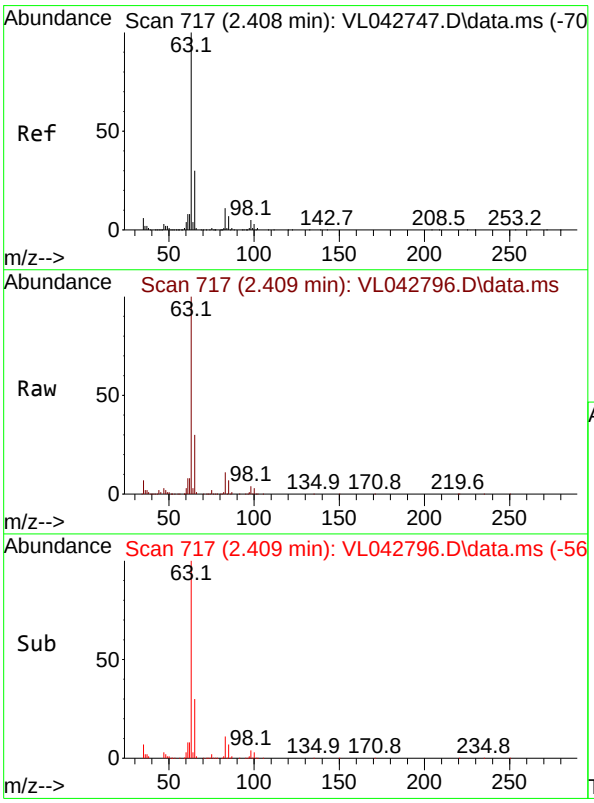
#23
Vinyl Acetate
Concen: 10.966 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 286954

Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.1	9.1
42	10.1	7.8	11.8
44	5.9	4.4	6.6

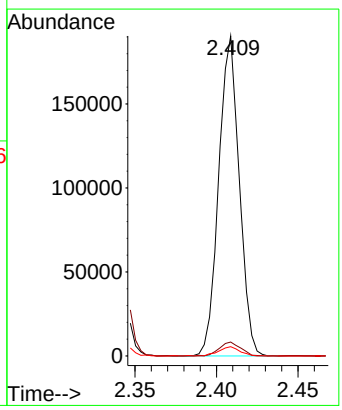


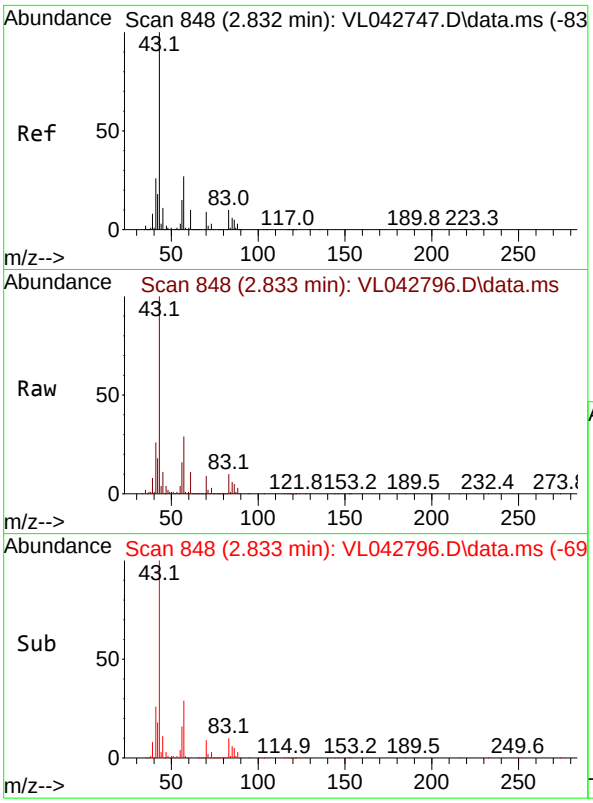


#24
1,1-Dichloroethane
Concen: 10.340 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 63 Resp: 166989

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.5	7.4
100	2.9	1.6	4.8



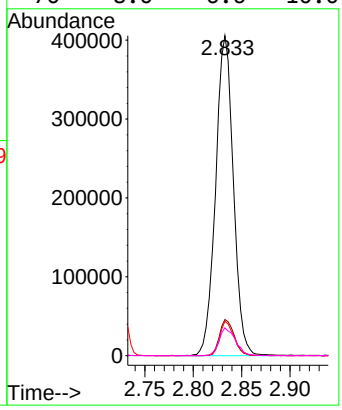


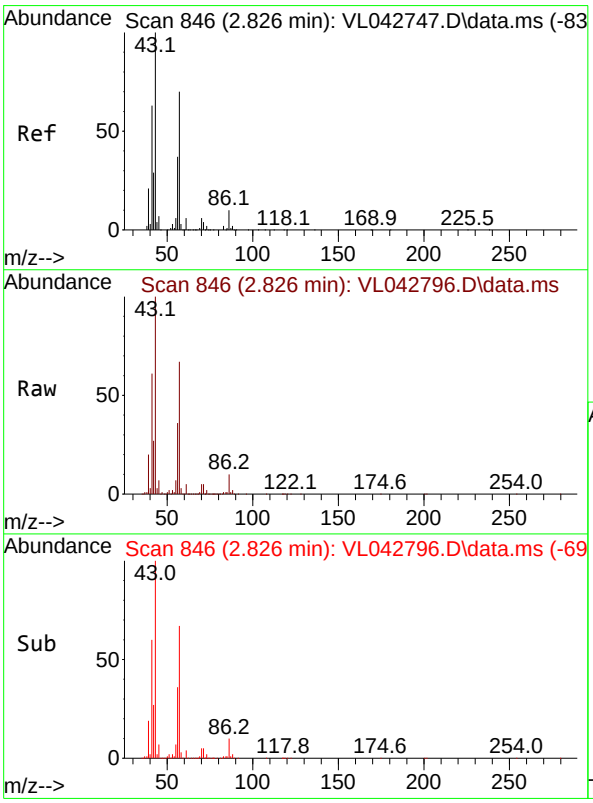
#25
Ethyl Acetate
Concen: 10.829 ppbv
RT: 2.833 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 517370

Ion	Ratio	Lower	Upper
43	100		
45	9.4	7.8	11.6
61	8.8	6.7	10.1
70	8.0	6.6	10.0

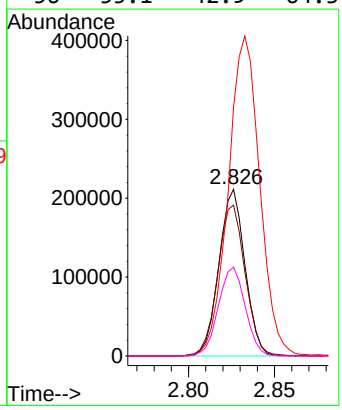


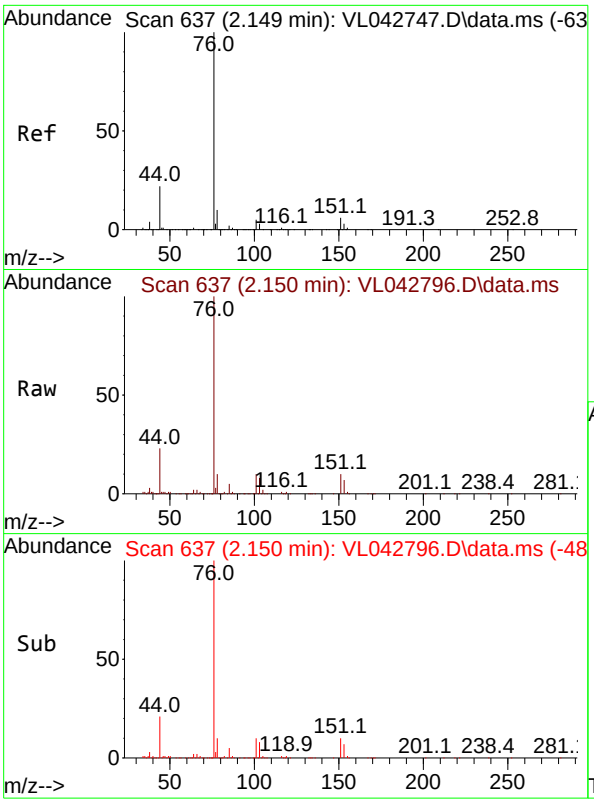


#26
Hexane
Concen: 10.571 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 57 Resp: 221546

Ion	Ratio	Lower	Upper
57	100		
41	95.9	75.4	113.2
43	233.7	185.0	277.6
56	55.1	42.9	64.3



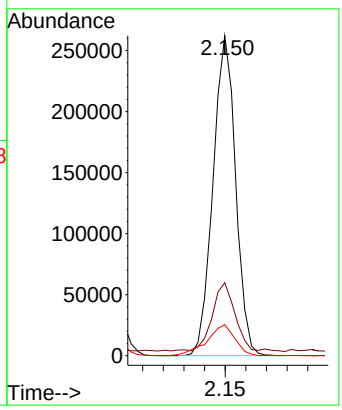


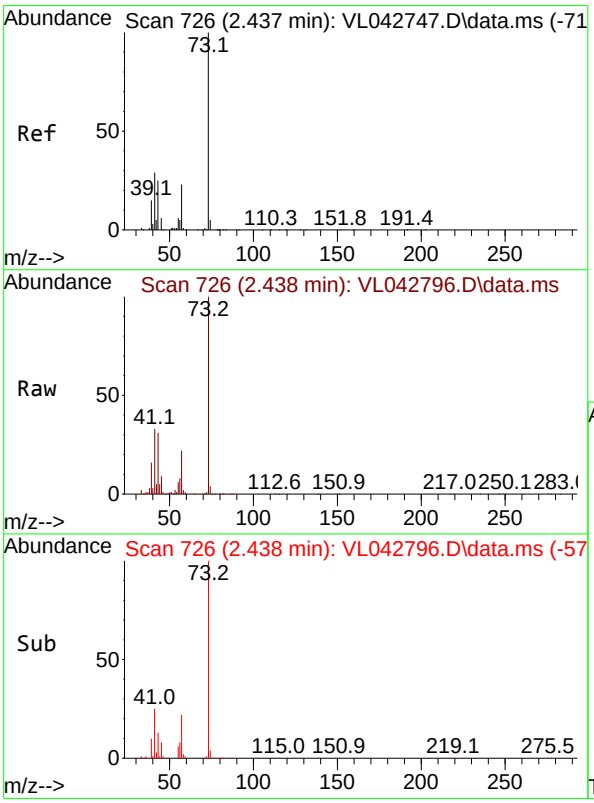
#27
Carbon Disulfide
Concen: 11.094 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 76 Resp: 199042

Ion	Ratio	Lower	Upper
76	100		
44	21.6	19.3	28.9
78	12.1	9.9	14.9

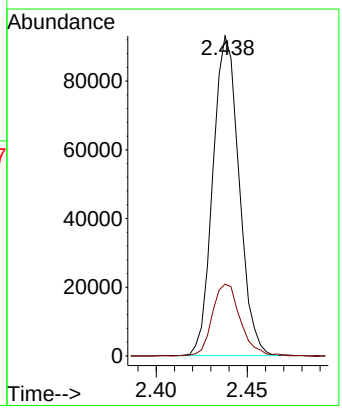


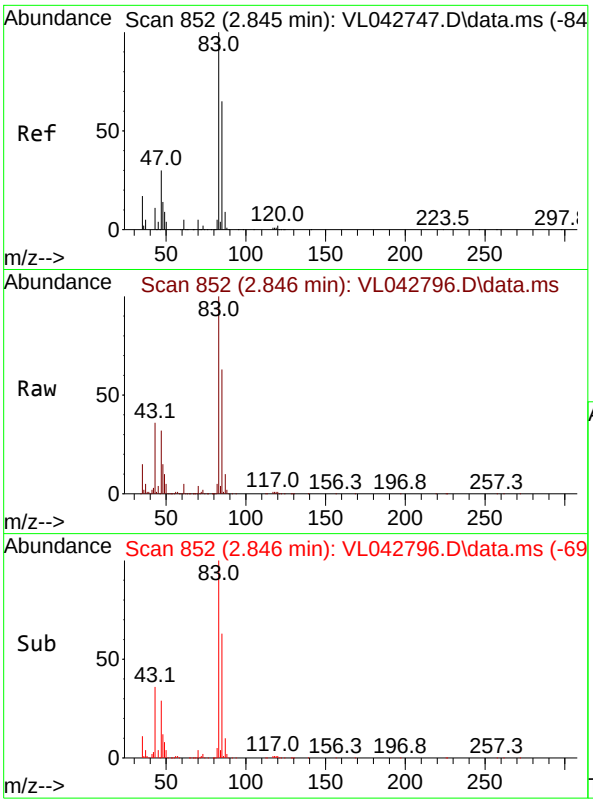


#28
Methyl tert-Butyl Ether
Concen: 9.404 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 73 Resp: 93108

Ion	Ratio	Lower	Upper
73	100		
57	24.1	19.8	29.8



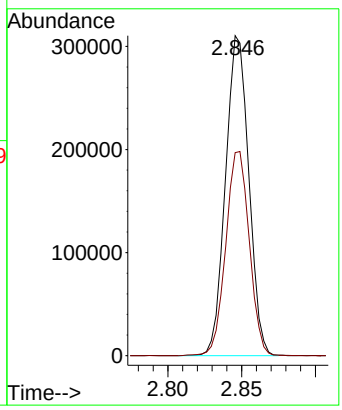


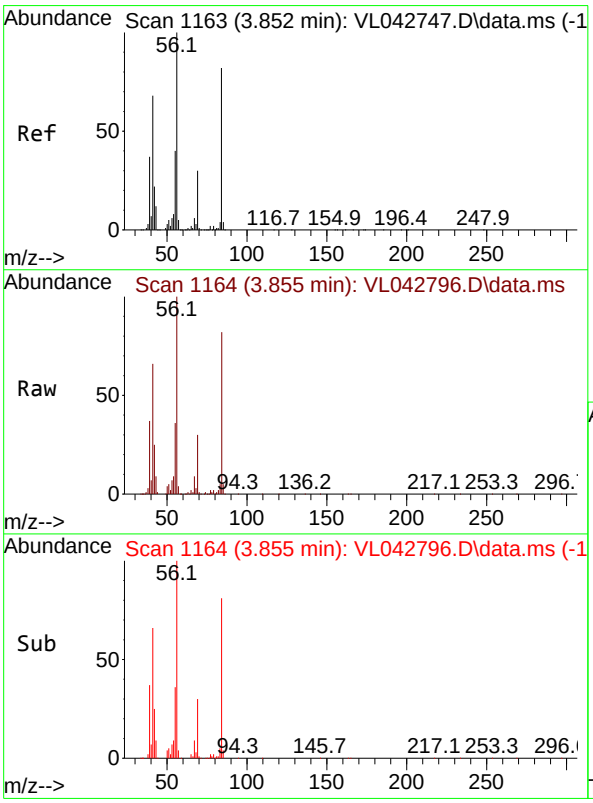
#29
Chloroform
Concen: 10.520 ppbv
RT: 2.846 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 340691

Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.2	78.2

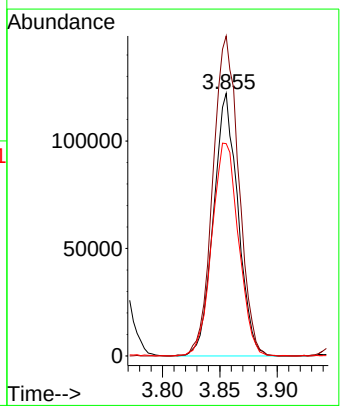


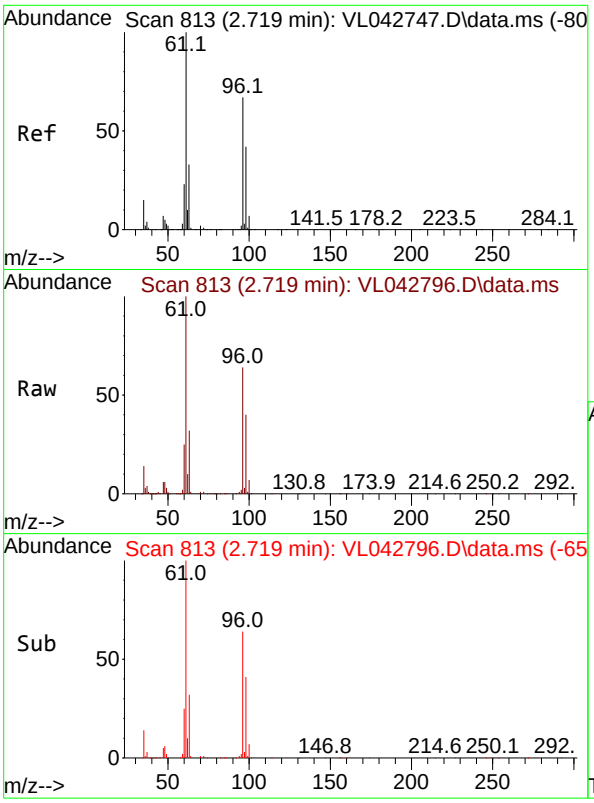


#30
Cyclohexane
Concen: 10.195 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 84 Resp: 181209

Ion	Ratio	Lower	Upper
84	100		
56	128.6	97.5	146.3
41	88.5	67.2	100.8



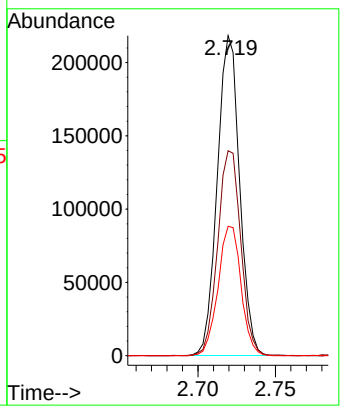


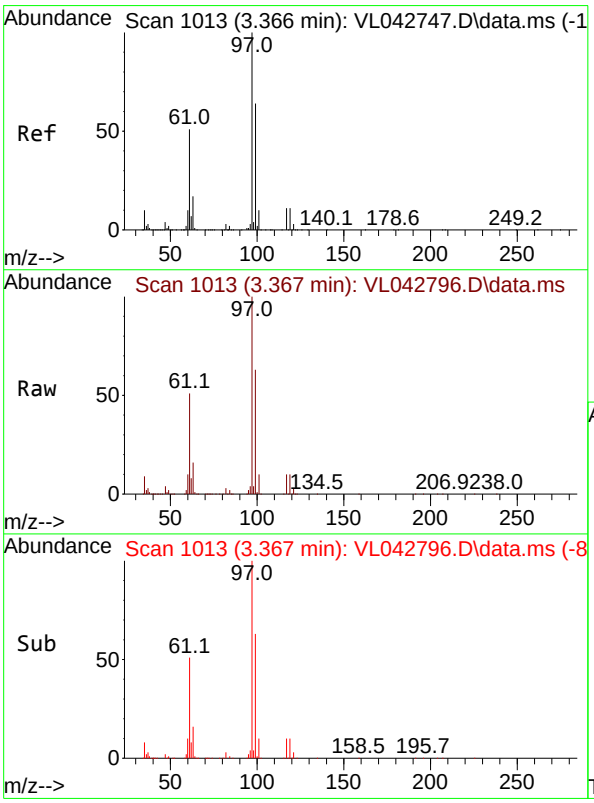
#31
cis-1,2-Dichloroethene
Concen: 10.164 ppbv
RT: 2.719 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 61 Resp: 218880

Ion	Ratio	Lower	Upper
61	100		
96	64.1	53.5	80.3
98	40.5	33.6	50.4

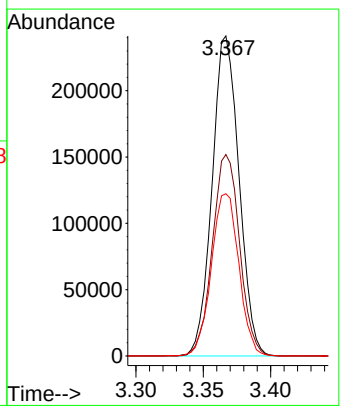


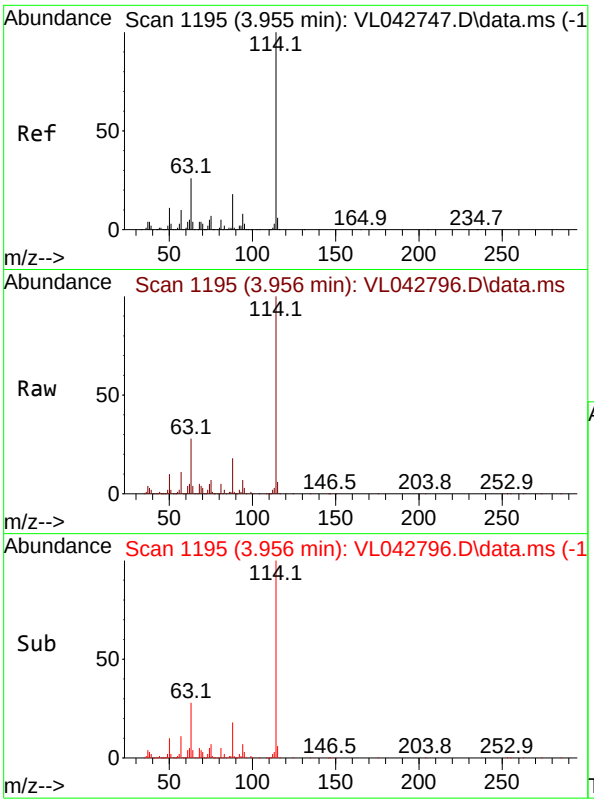


#32
1,1,1-Trichloroethane
Concen: 9.948 ppbv
RT: 3.367 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 97 Resp: 335591

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.0	76.6
61	51.9	40.9	61.3



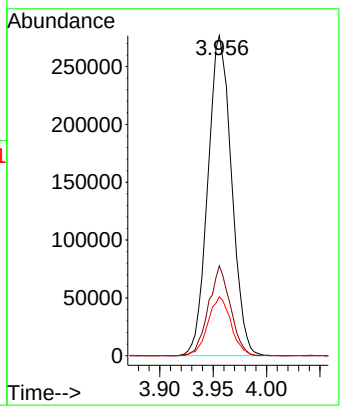


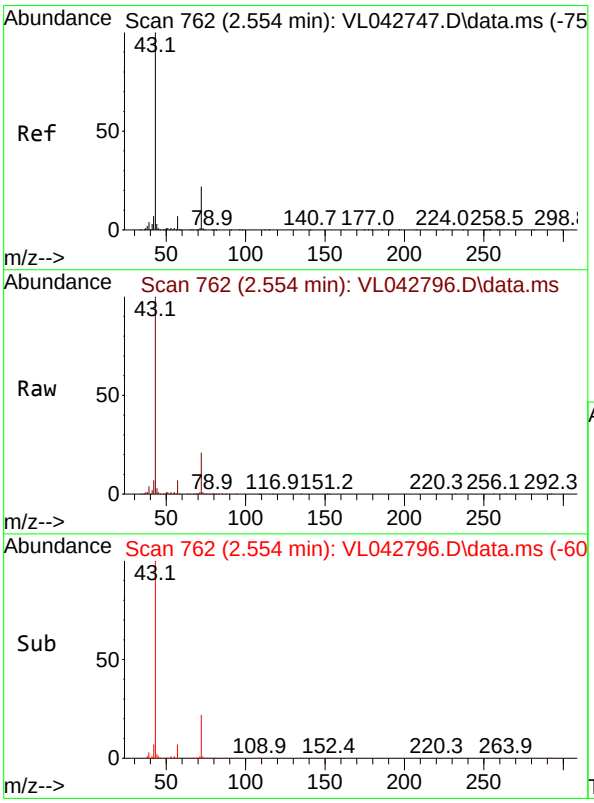
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:114 Resp: 426613

Ion	Ratio	Lower	Upper
114	100		
63	26.1	20.5	30.7
88	18.0	14.0	21.0

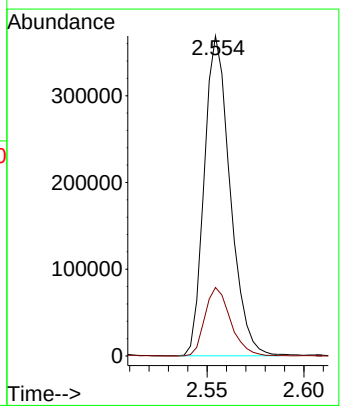


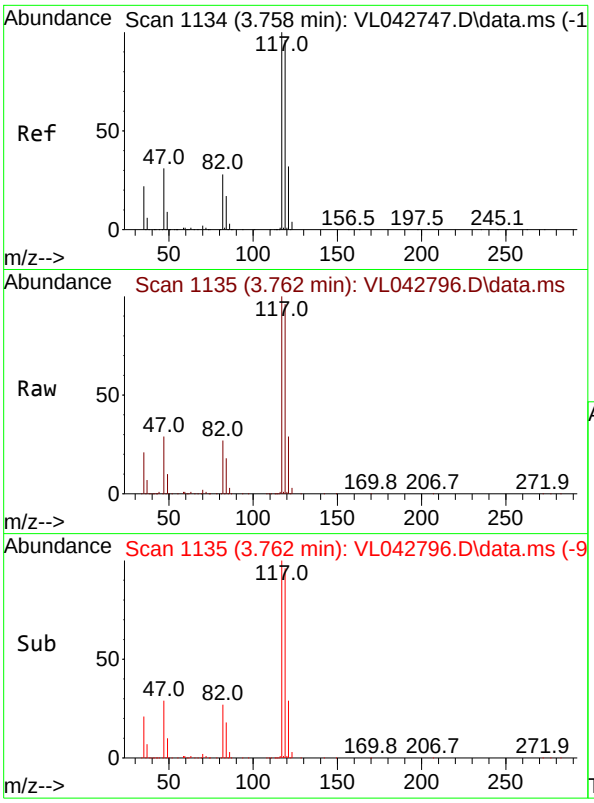


#34
2-Butanone
Concen: 11.329 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 43 Resp: 342346

Ion	Ratio	Lower	Upper
43	100		
72	21.3	17.4	26.0



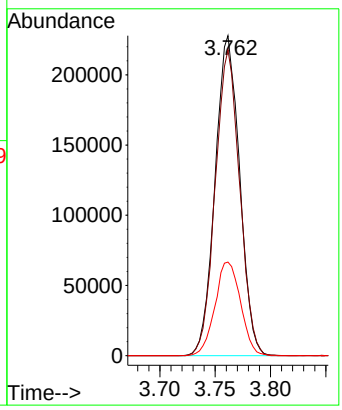


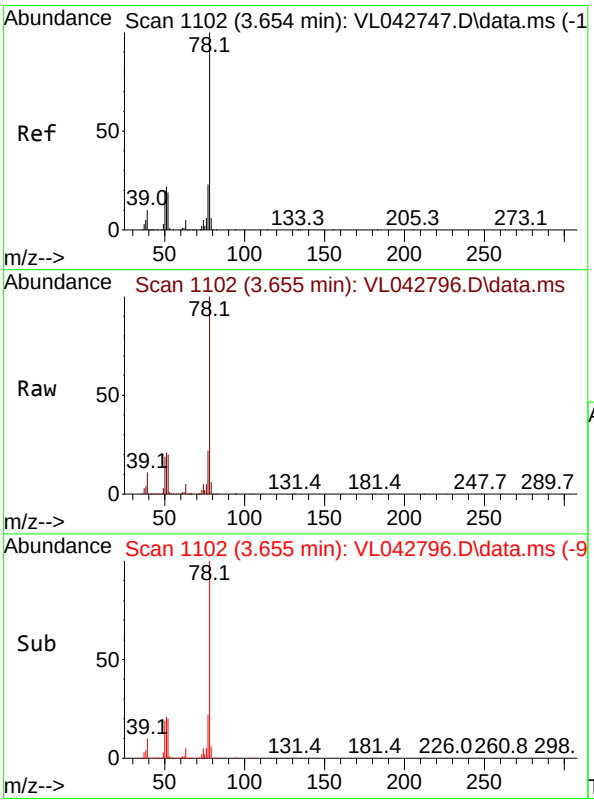
#35
Carbon Tetrachloride
Concen: 11.082 ppbv
RT: 3.762 min Scan# 11
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 351173

Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.1	115.7
121	29.2	25.5	38.3

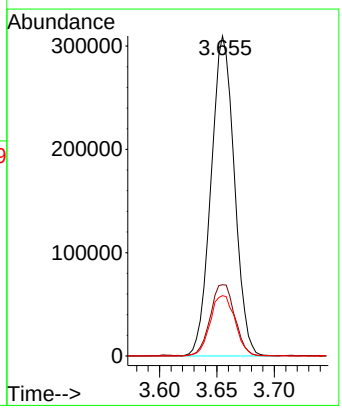


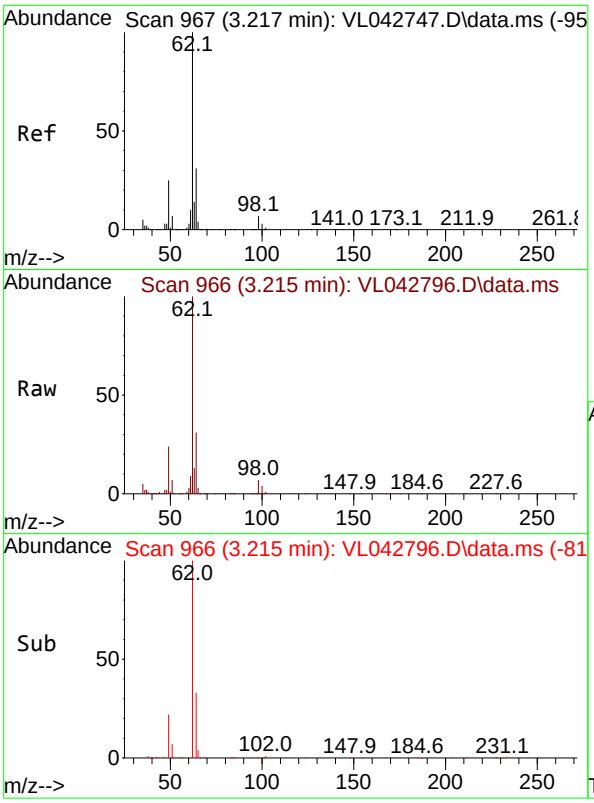


#36
Benzene
Concen: 10.861 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 78 Resp: 439144

Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.5	27.7
50	18.8	16.2	24.2



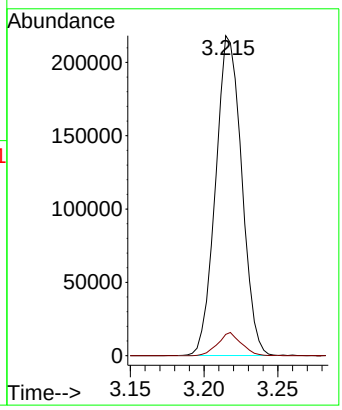


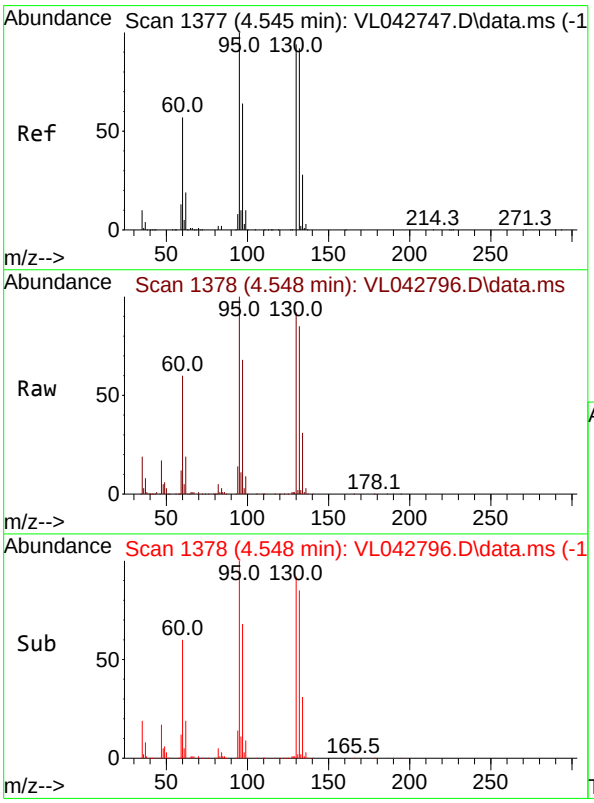
#37
1,2-Dichloroethane
Concen: 11.022 ppbv
RT: 3.215 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 268448

Ion	Ratio	Lower	Upper
62	100		
98	6.6	5.2	7.8

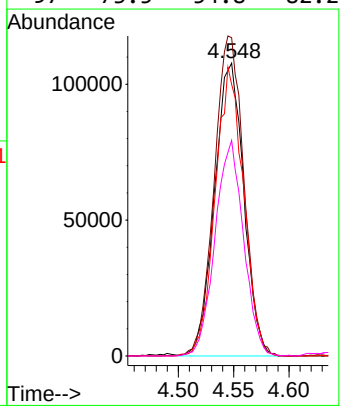


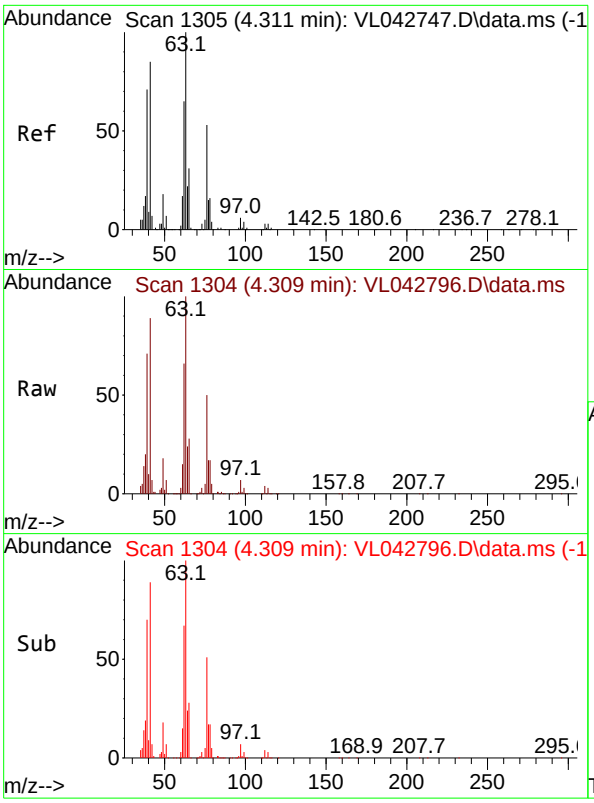


#38
Trichloroethene
Concen: 10.219 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:130 Resp: 198489

Ion	Ratio	Lower	Upper
130	100		
95	108.7	85.4	128.2
132	92.5	78.2	117.2
97	73.5	54.8	82.2



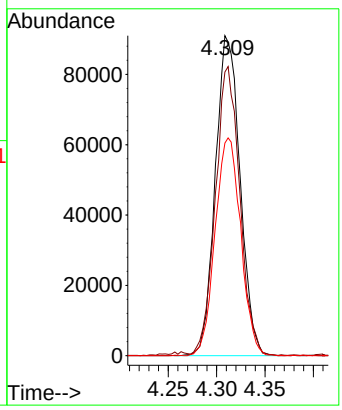


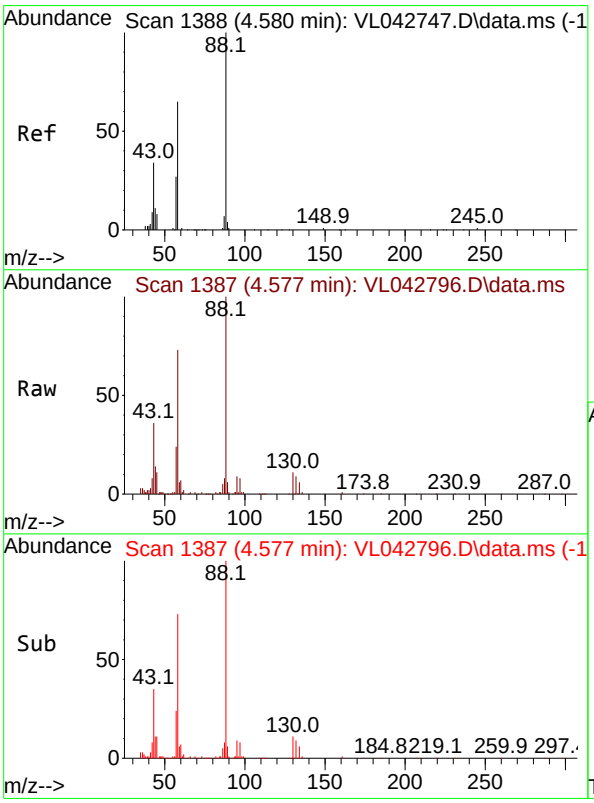
#39
1,2-Dichloropropane
Concen: 10.828 ppbv
RT: 4.309 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 63 Resp: 161604

Ion	Ratio	Lower	Upper
63	100		
41	88.5	68.2	102.4
62	66.5	52.0	78.0

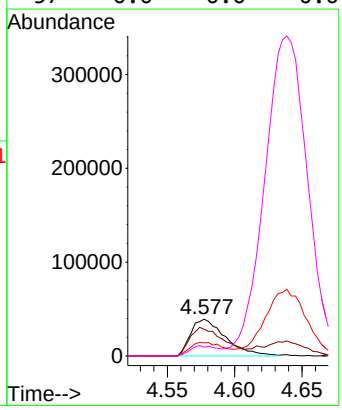


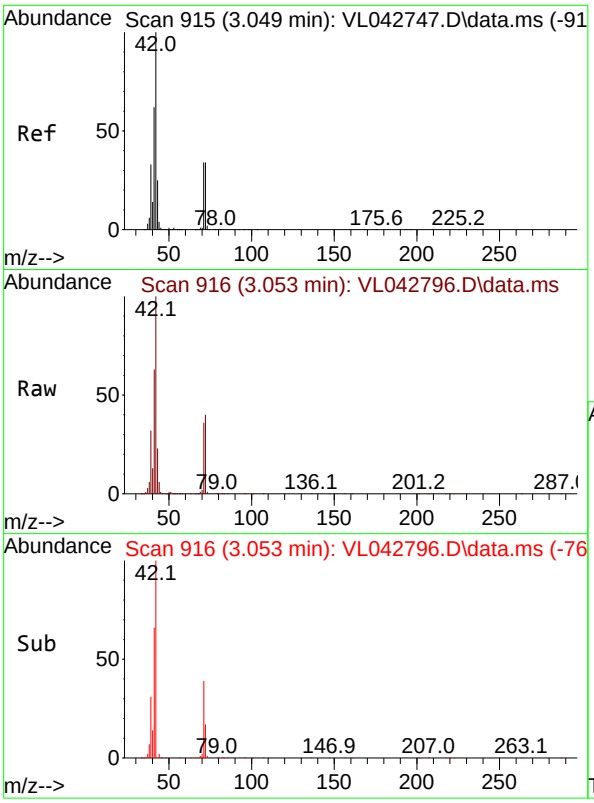


#40
1,4-Dioxane
Concen: 10.142 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 88 Resp: 70550

Ion	Ratio	Lower	Upper
88	100		
58	75.0	58.8	88.2
43	34.7	28.9	43.3
57	0.0	0.0	0.0



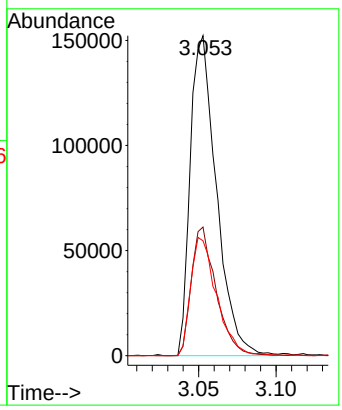


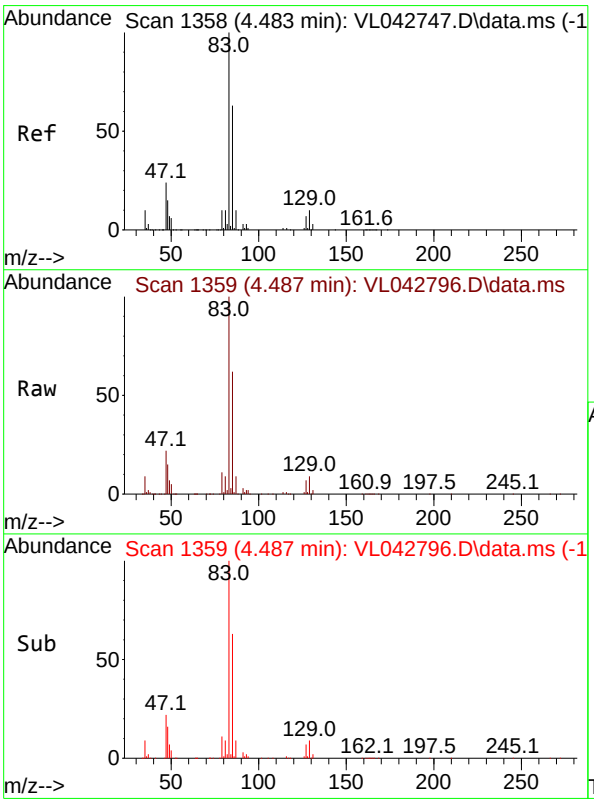
#41
Tetrahydrofuran
Concen: 11.676 ppbv
RT: 3.053 min Scan# 91
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 42 Resp: 179539

Ion	Ratio	Lower	Upper
42	100		
72	38.1	30.9	46.3
71	36.8	28.6	43.0

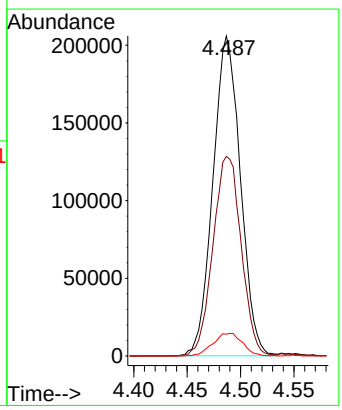


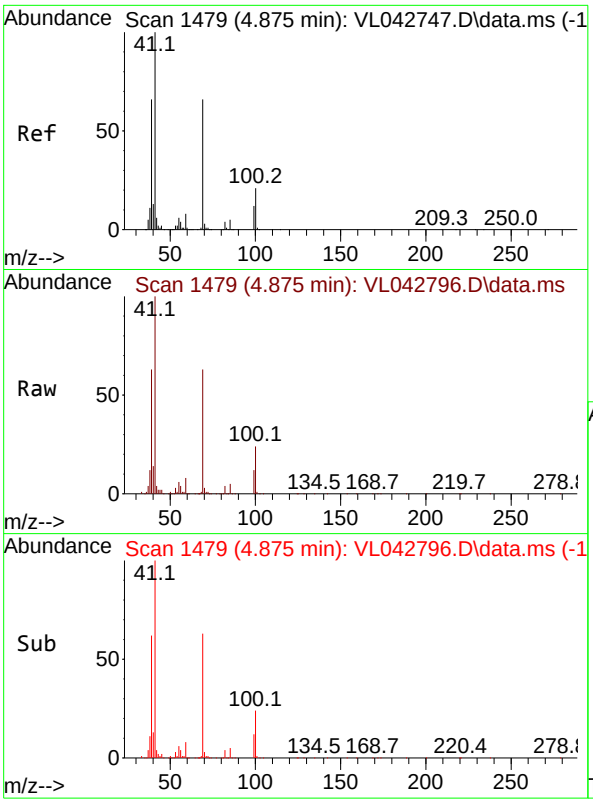


#42
Bromodichloromethane
Concen: 11.618 ppbv
RT: 4.487 min Scan# 1359
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 83 Resp: 368522

Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.2	75.4
127	6.8	5.4	8.2



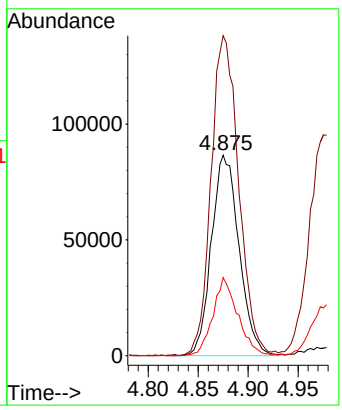


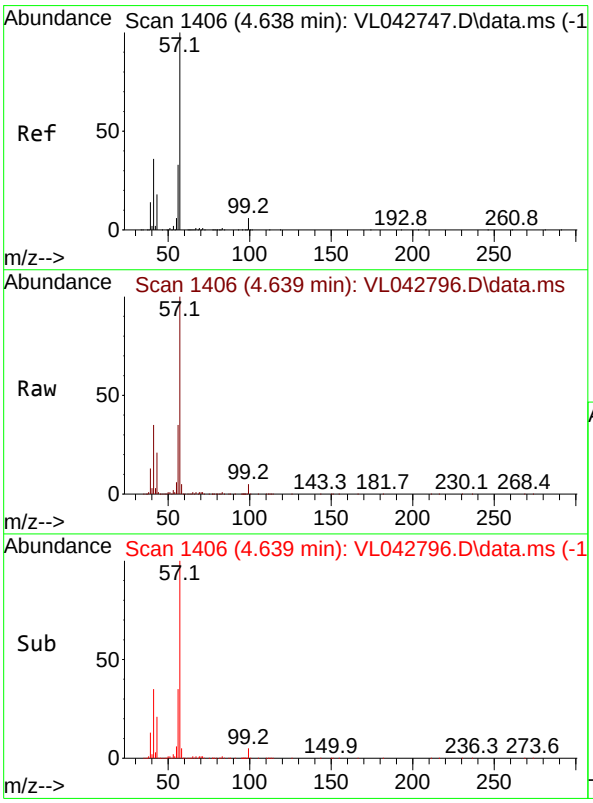
#43
Methyl Methacrylate
Concen: 11.594 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 166622

Ion	Ratio	Lower	Upper
69	100		
41	159.6	125.7	188.5
100	35.1	28.6	42.8

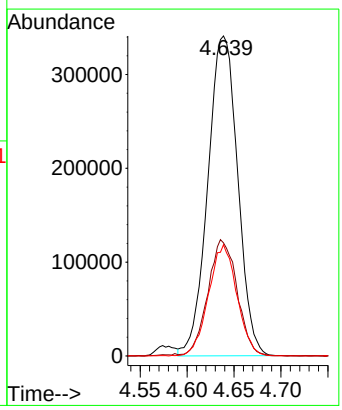


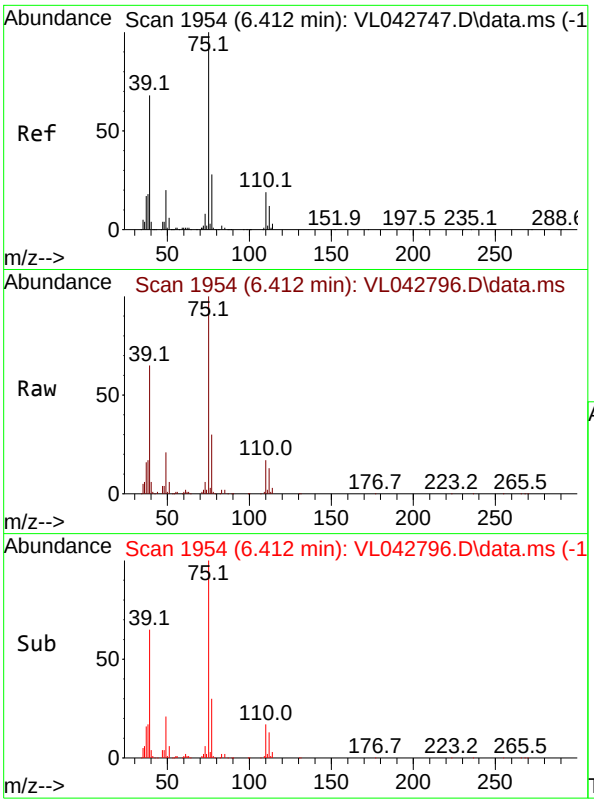


#44
2,2,4-Trimethylpentane
Concen: 11.456 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 57 Resp: 754946

Ion	Ratio	Lower	Upper
57	100		
41	35.8	28.3	42.5
56	33.1	25.8	38.6



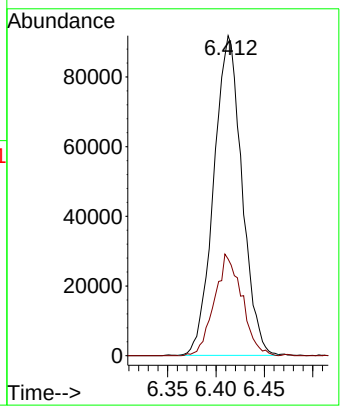


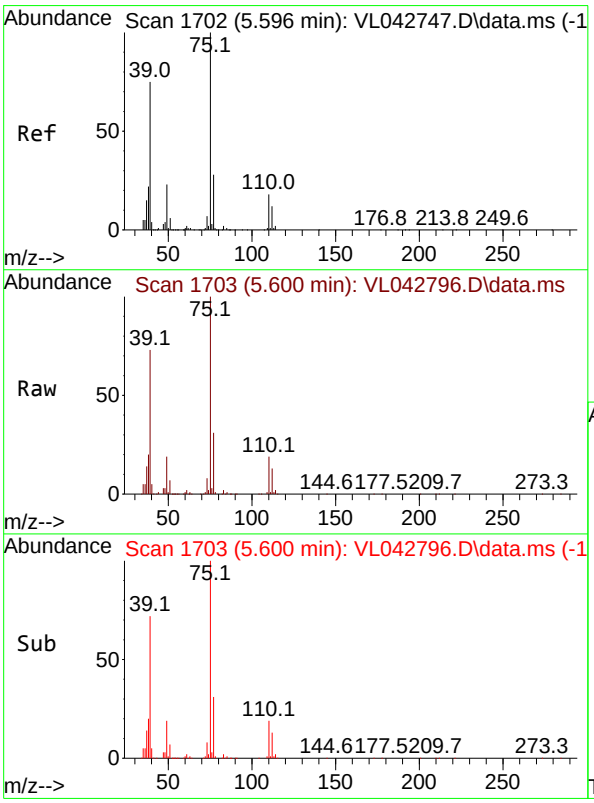
#45
t-1,3-Dichloropropene
Concen: 11.524 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 75 Resp: 185713

Ion	Ratio	Lower	Upper
75	100		
77	30.2	22.4	33.6

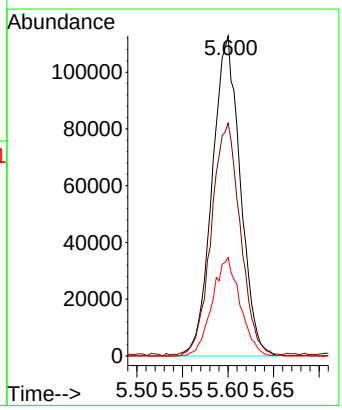


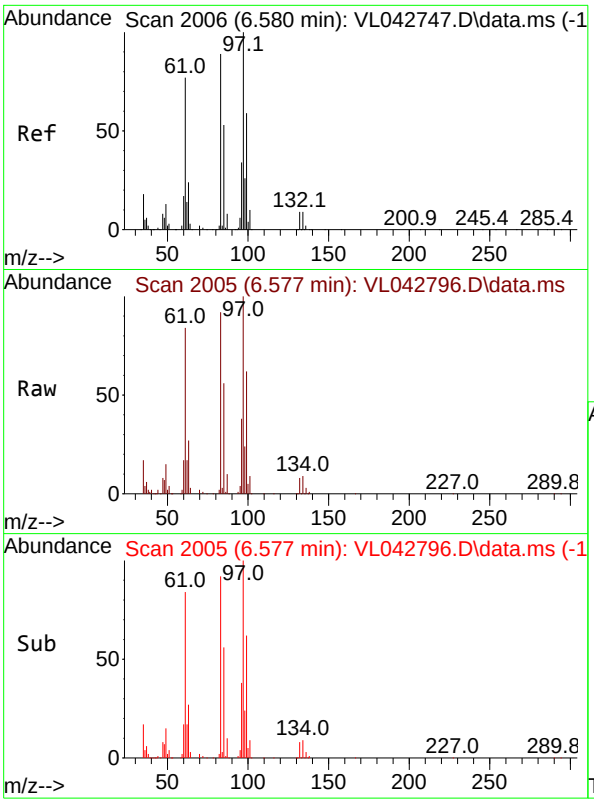


#46
cis-1,3-Dichloropropene
Concen: 11.799 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 75 Resp: 240949

Ion	Ratio	Lower	Upper
75	100		
39	72.3	60.2	90.2
77	30.6	22.6	34.0



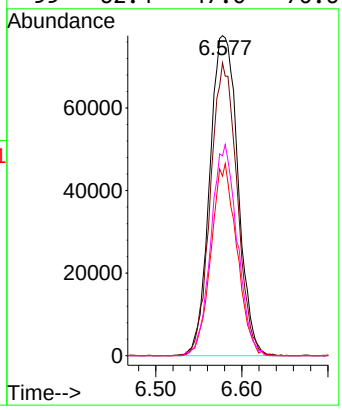


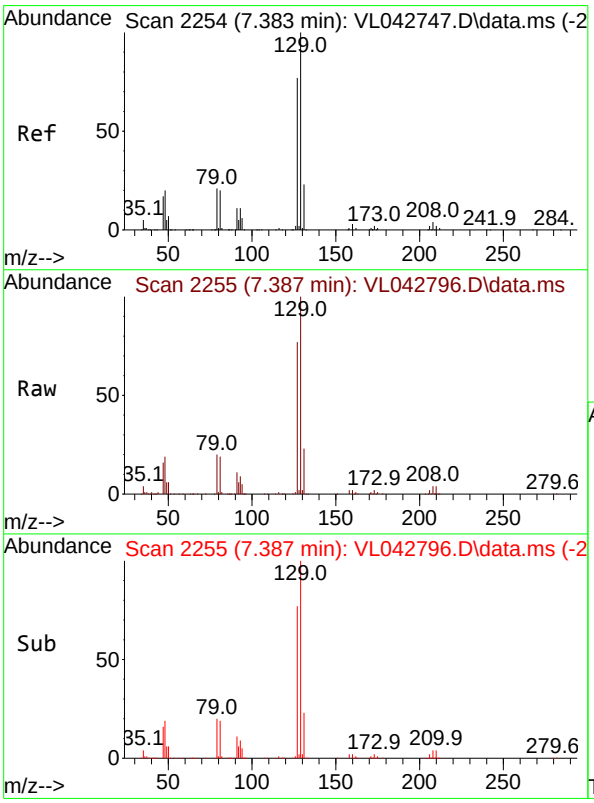
#47
1,1,2-Trichloroethane
Concen: 11.078 ppbv
RT: 6.577 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 97 Resp: 176245

Ion	Ratio	Lower	Upper
97	100		
83	91.4	71.1	106.7
85	56.1	43.0	64.4
99	62.4	47.0	70.6

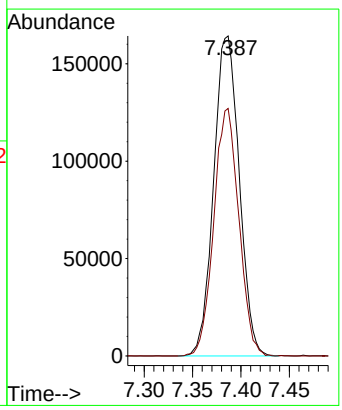


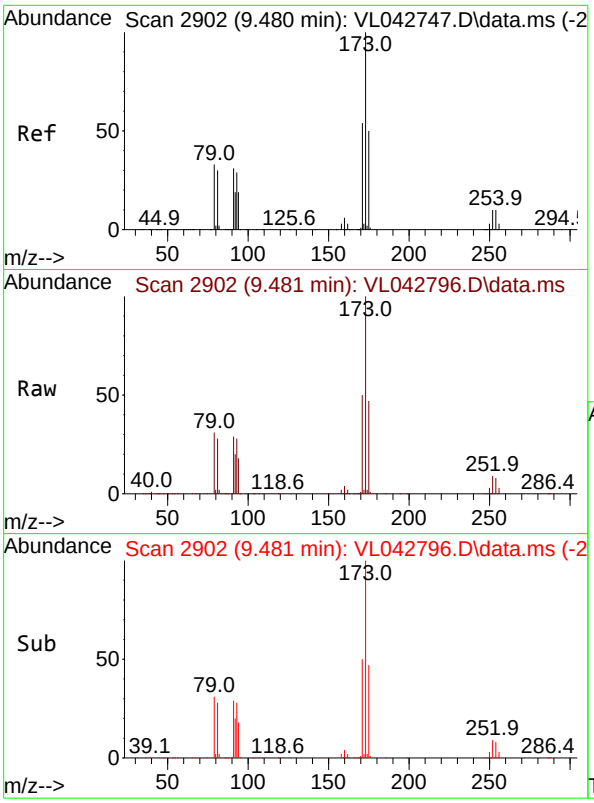


#48
Dibromochloromethane
Concen: 11.954 ppbv
RT: 7.387 min Scan# 2255
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:129 Resp: 301910

Ion	Ratio	Lower	Upper
129	100		
127	75.7	38.7	116.1



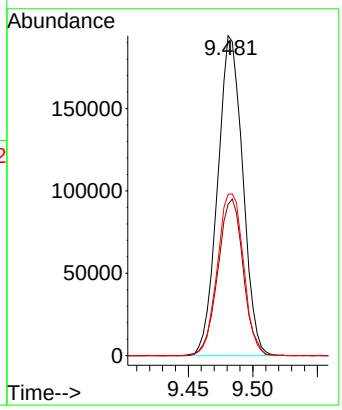


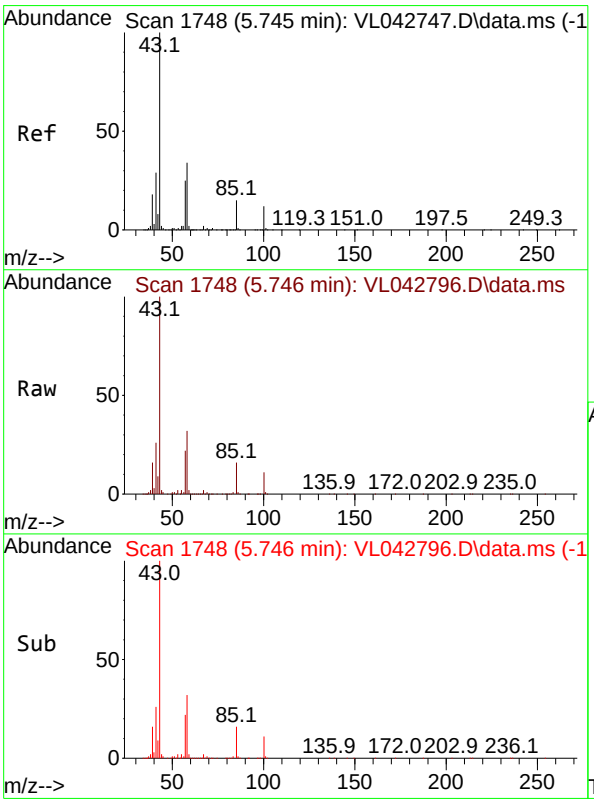
#49
Bromoform
Concen: 11.932 ppbv
RT: 9.481 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:173 Resp: 262767

Ion	Ratio	Lower	Upper
173	100		
175	49.4	38.4	57.6
171	52.7	40.9	61.3

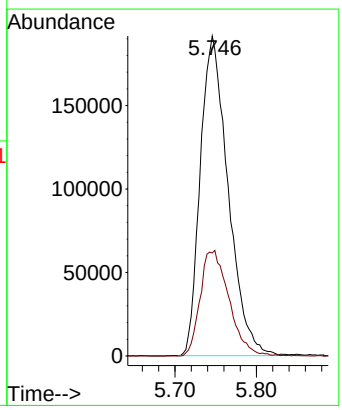


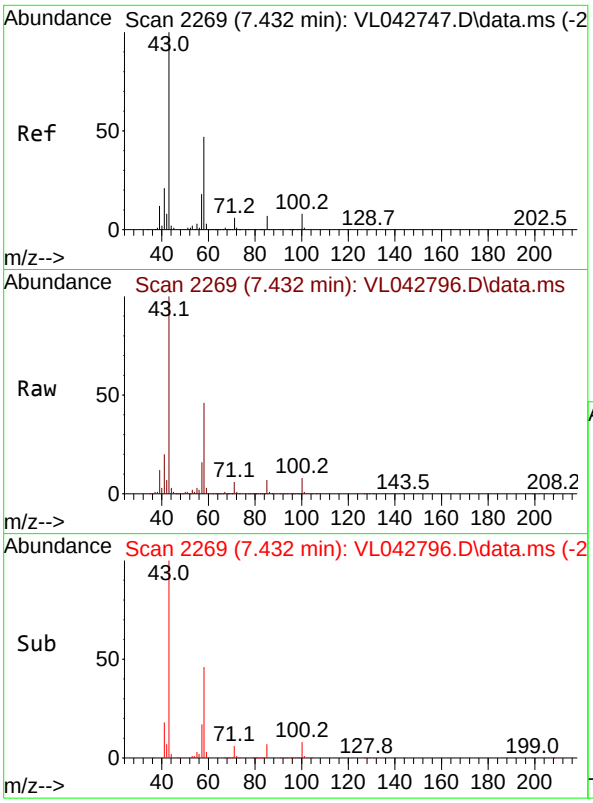


#50
4-Methyl-2-Pentanone
Concen: 11.662 ppbv
RT: 5.746 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 43 Resp: 453959

Ion	Ratio	Lower	Upper
43	100		
58	34.2	27.8	41.8



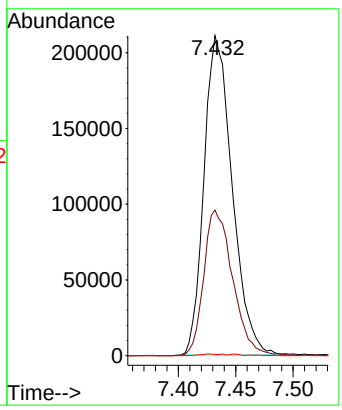


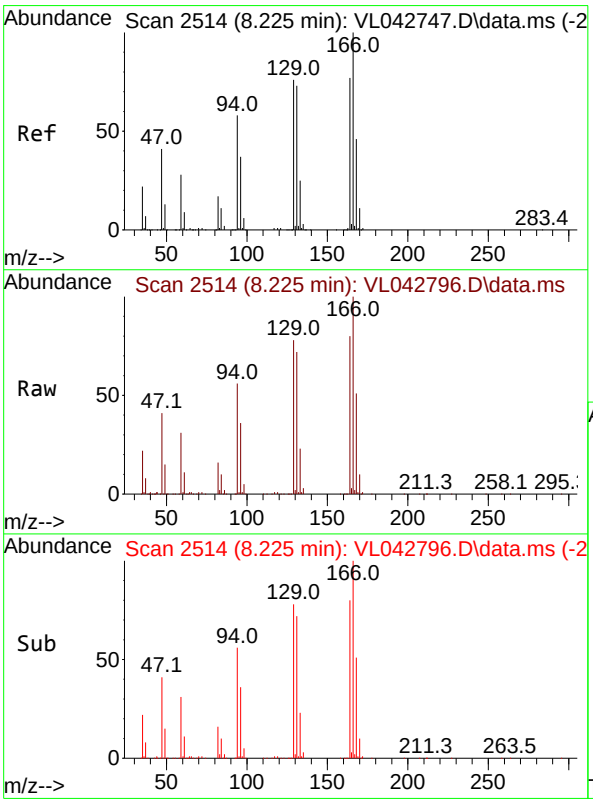
#51
2-Hexanone
Concen: 12.258 ppbv
RT: 7.432 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 360580

Ion	Ratio	Lower	Upper
43	100		
58	46.8	38.0	57.0
98	0.7	0.2	0.4#

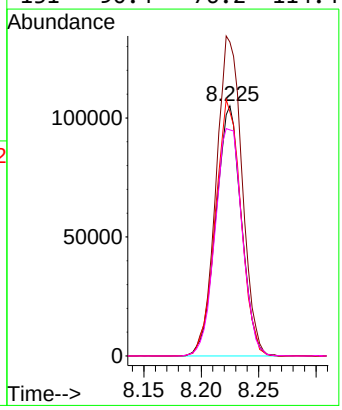


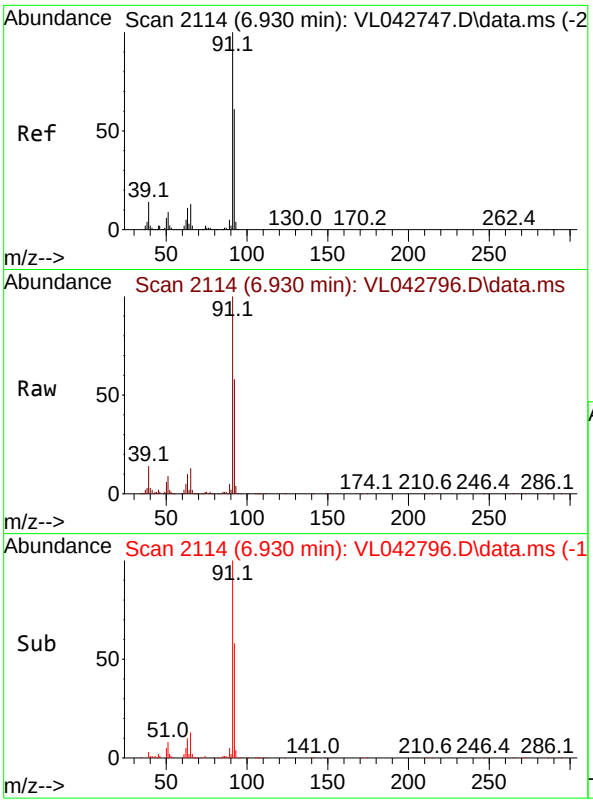


#52
Tetrachloroethene
Concen: 9.686 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:164 Resp: 162318

Ion	Ratio	Lower	Upper
164	100		
166	125.5	104.0	156.0
129	97.6	79.2	118.8
131	90.4	76.2	114.4



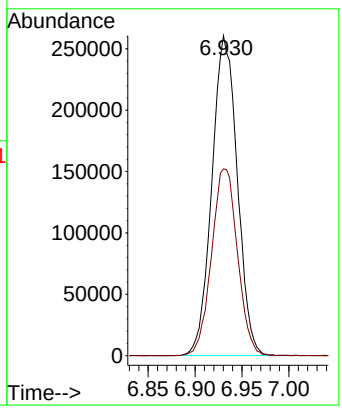


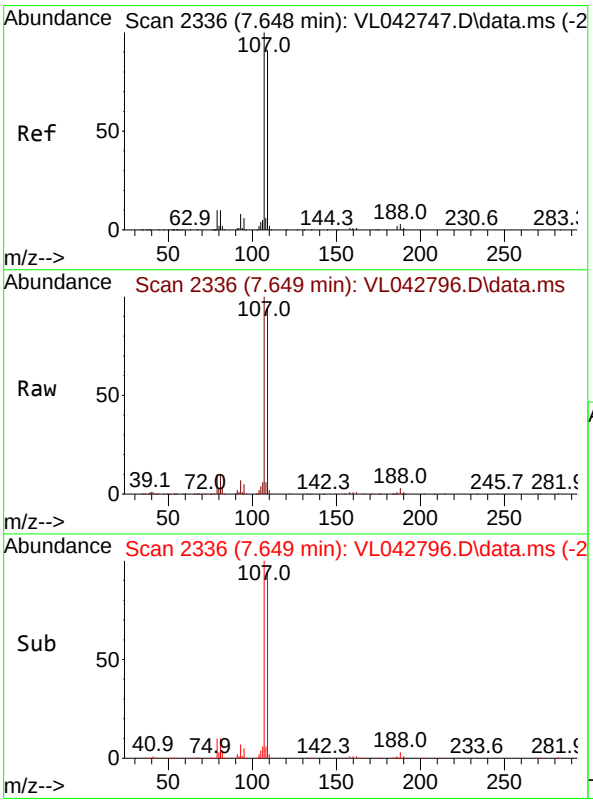
#53
Toluene
Concen: 11.278 ppbv
RT: 6.930 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 489672

Ion	Ratio	Lower	Upper
91	100		
92	59.8	48.0	72.0

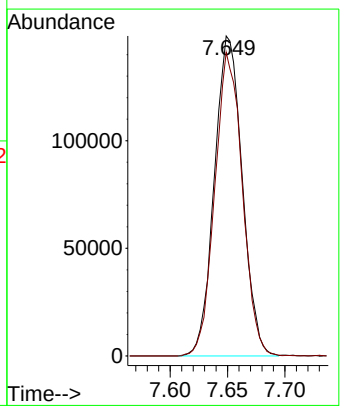


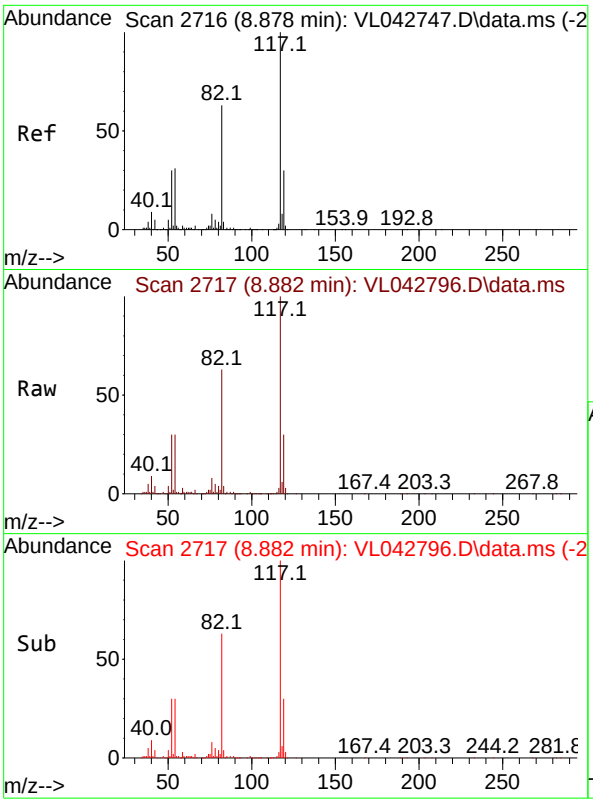


#54
1,2-Dibromoethane
Concen: 11.165 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:107 Resp: 250956

Ion	Ratio	Lower	Upper
107	100		
109	95.0	72.7	109.1



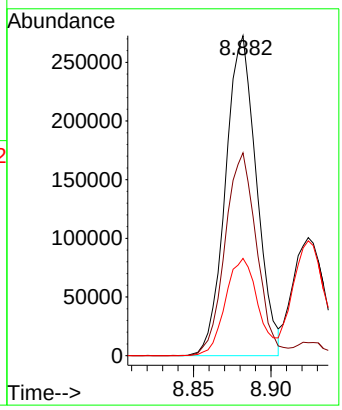


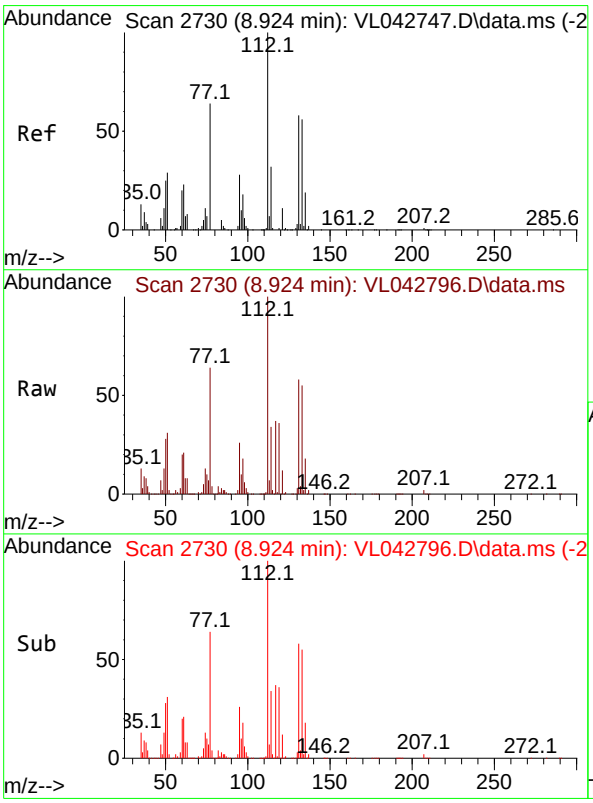
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 380017

Ion	Ratio	Lower	Upper
117	100		
82	68.7	53.3	79.9
119	32.4	25.8	38.6

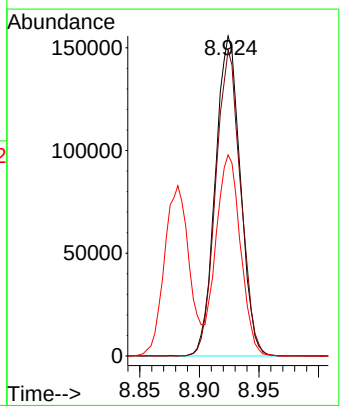


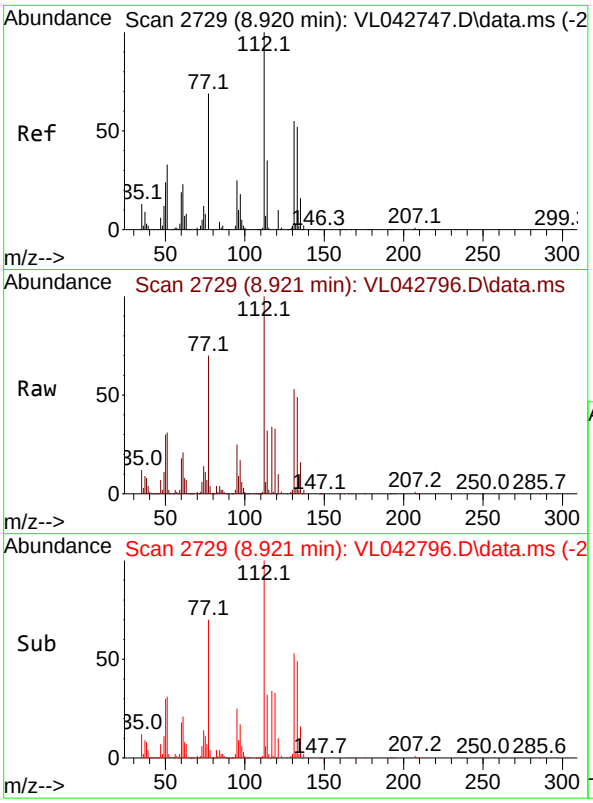


#56
1,1,1,2-Tetrachloroethane
Concen: 11.479 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:131 Resp: 226803

Ion	Ratio	Lower	Upper
131	100		
133	95.3	76.8	115.2
119	62.3	49.7	74.5



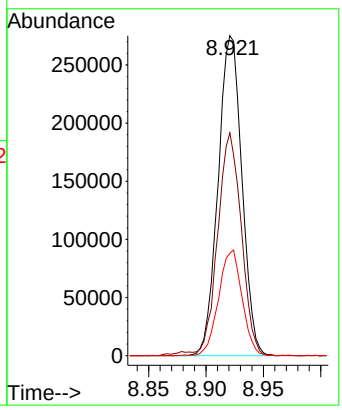


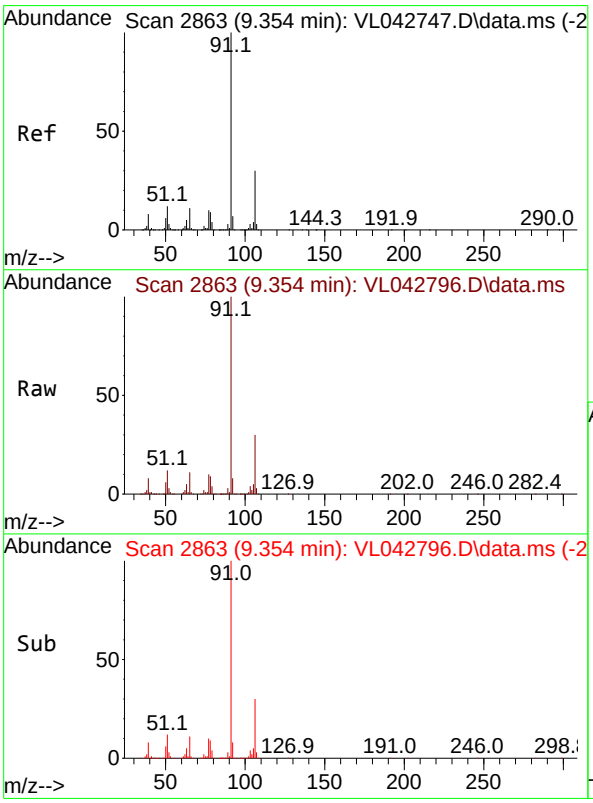
#57
Chlorobenzene
Concen: 10.808 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:112 Resp: 397515

Ion	Ratio	Lower	Upper
112	100		
77	69.7	56.4	84.6
114	32.0	31.2	38.2

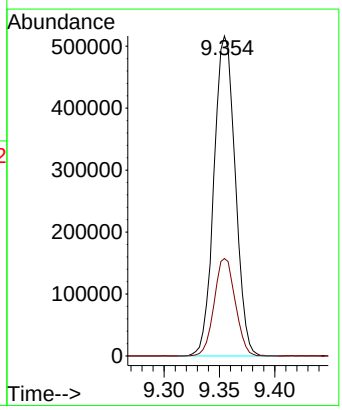


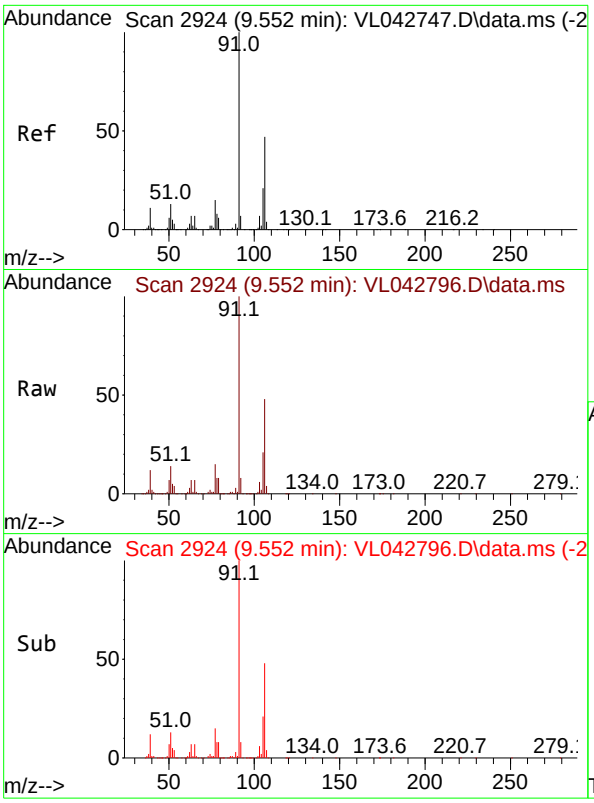


#58
Ethyl Benzene
Concen: 11.533 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 91 Resp: 692150

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.8	35.6



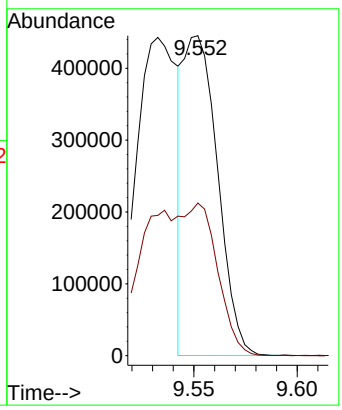


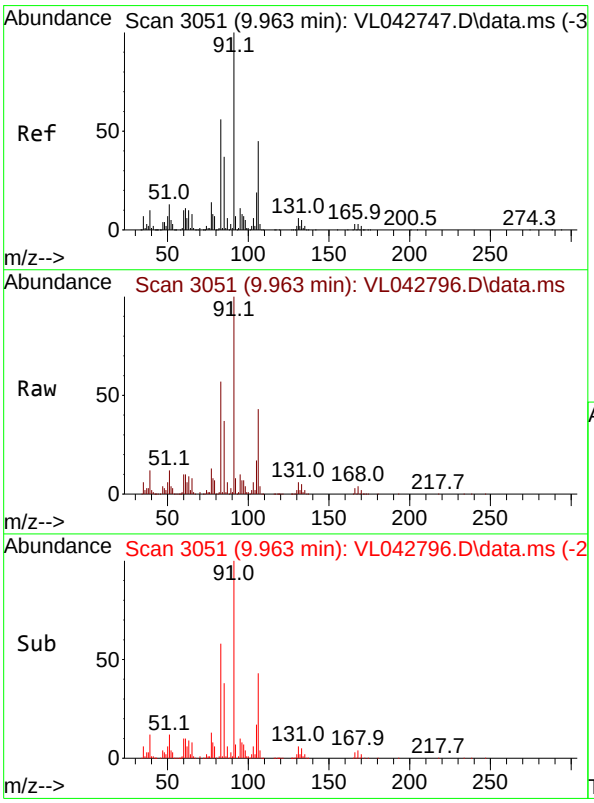
#59
m/p-Xylene
Concen: 10.643 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 510426

Ion	Ratio	Lower	Upper
91	100		
106	102.2	37.4	56.2#

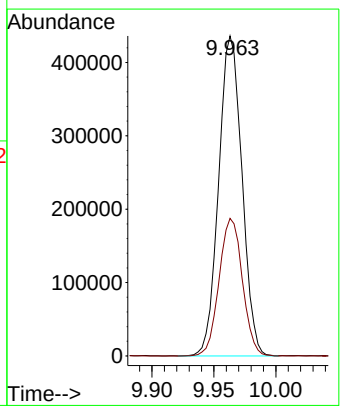


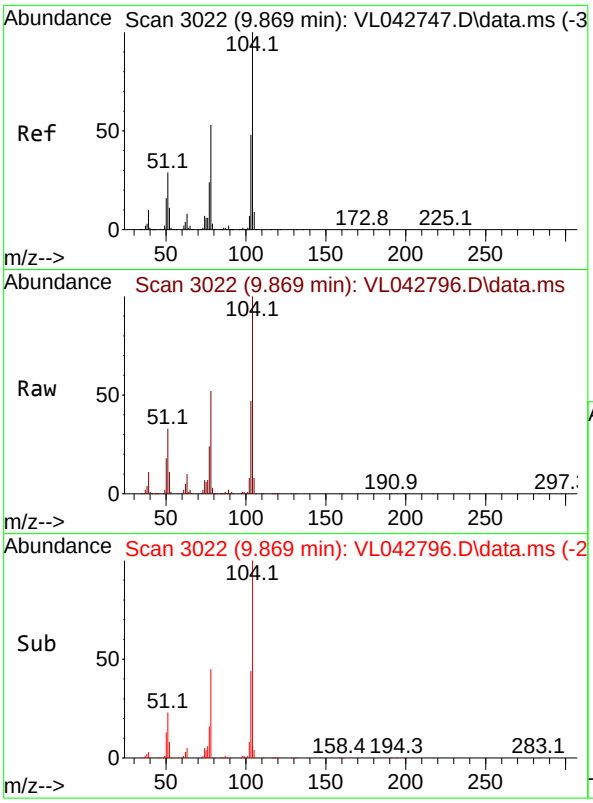


#60
o-Xylene
Concen: 11.935 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 91 Resp: 571988

Ion	Ratio	Lower	Upper
91	100		
106	43.0	22.0	66.0



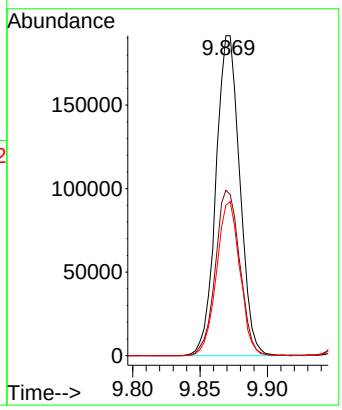


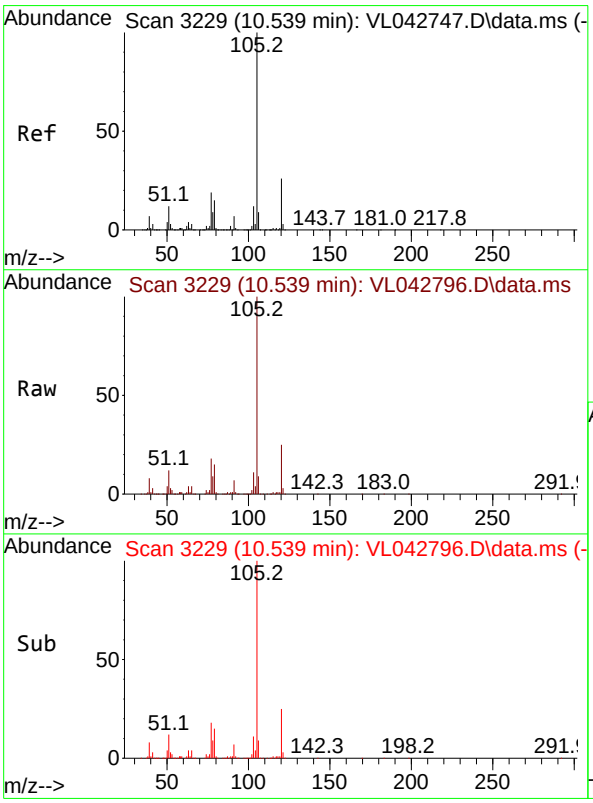
#61
Styrene
Concen: 11.699 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 235848

Ion	Ratio	Lower	Upper
104	100		
78	52.9	41.5	62.3
103	47.3	37.5	56.3

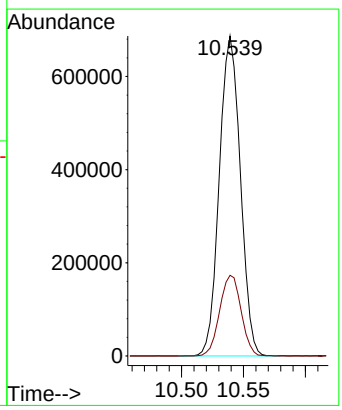


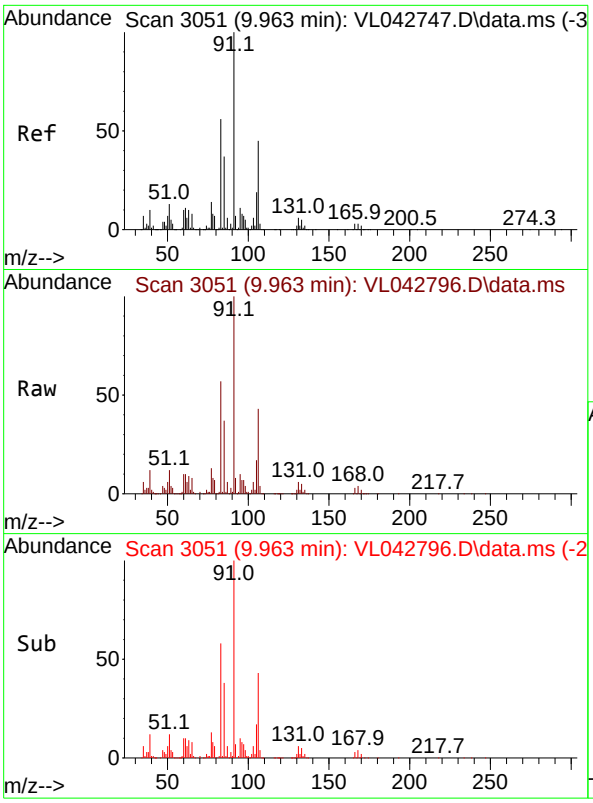


#62
Isopropylbenzene
Concen: 11.505 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:105 Resp: 813285

Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.5	30.7



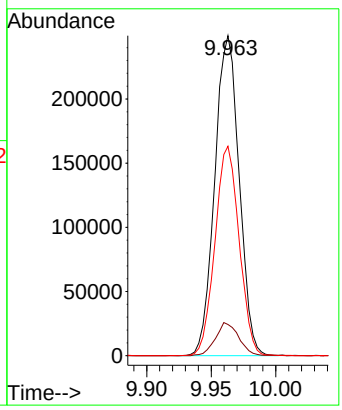


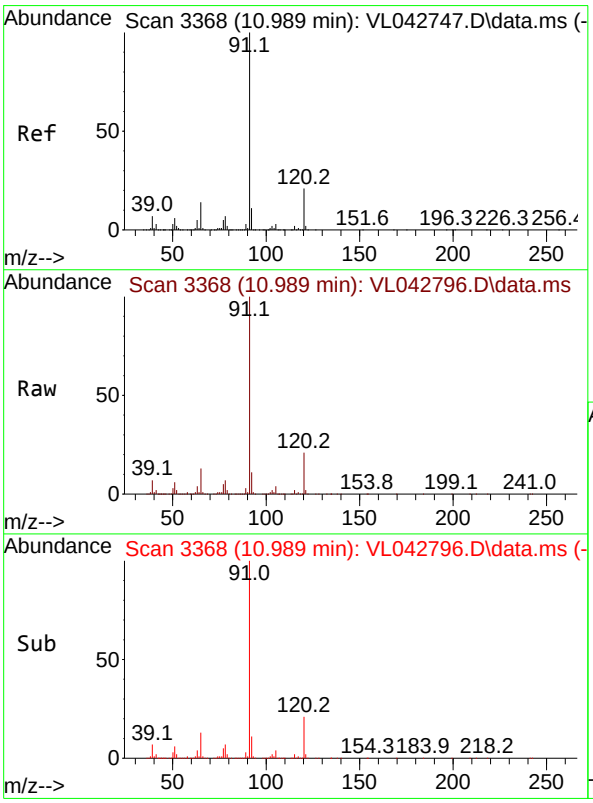
#63
1,1,2,2-Tetrachloroethane
Concen: 10.647 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 327594

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	15.0
85	64.8	32.6	97.7

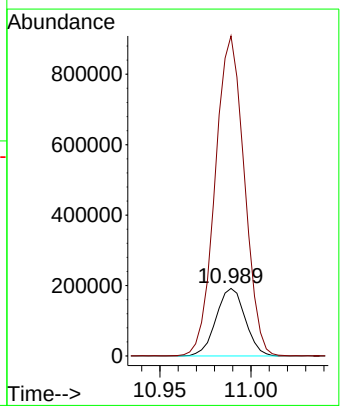


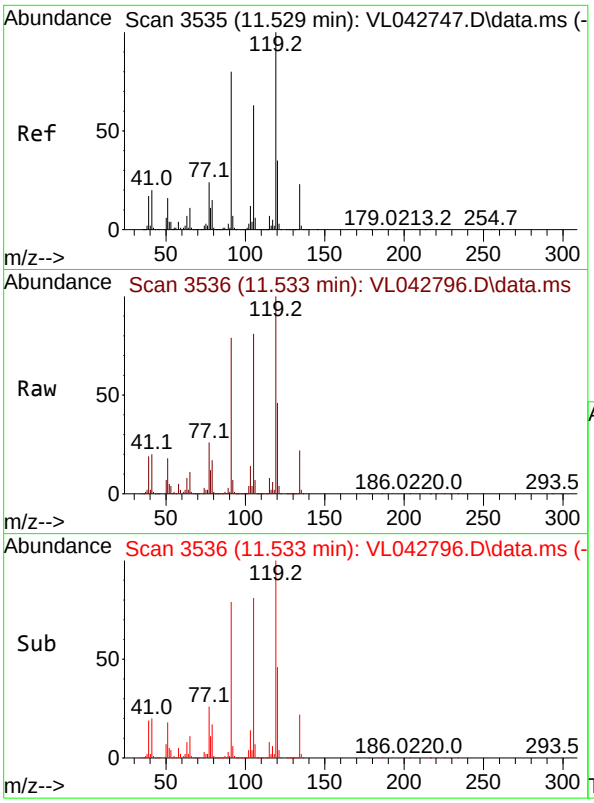


#64
n-propylbenzene
Concen: 11.553 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:120 Resp: 212922

Ion	Ratio	Lower	Upper
120	100		
91	474.8	372.7	559.1



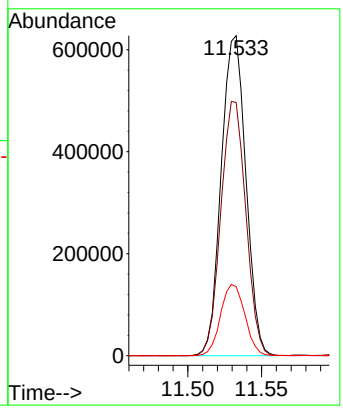


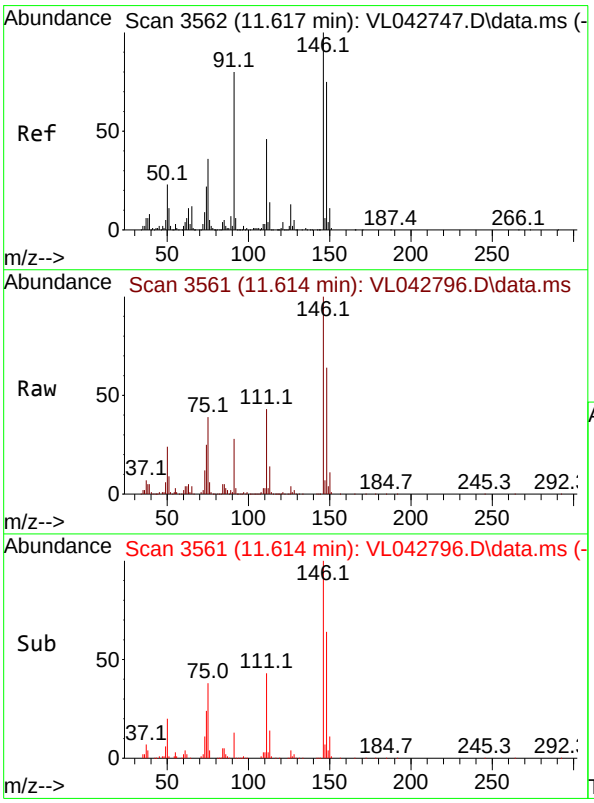
#65
tert-Butylbenzene
Concen: 11.633 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 730489

Ion	Ratio	Lower	Upper
119	100		
91	80.3	64.0	96.0
134	22.0	17.3	25.9

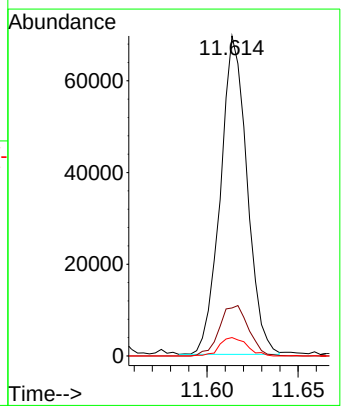


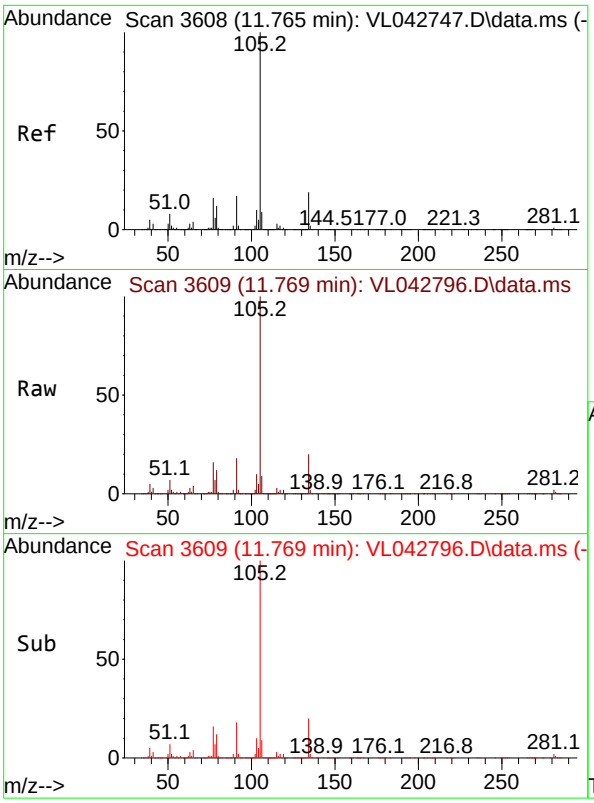


#66
Benzyl Chloride
Concen: 13.694 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 91 Resp: 70588

Ion	Ratio	Lower	Upper
91	100		
126	17.3	14.4	21.6
128	6.0	5.2	7.8



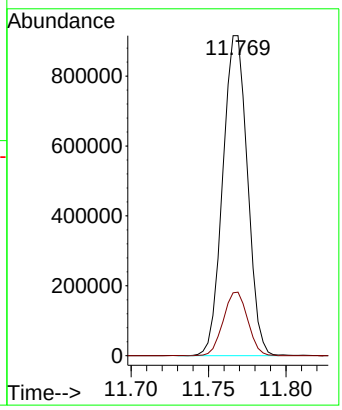


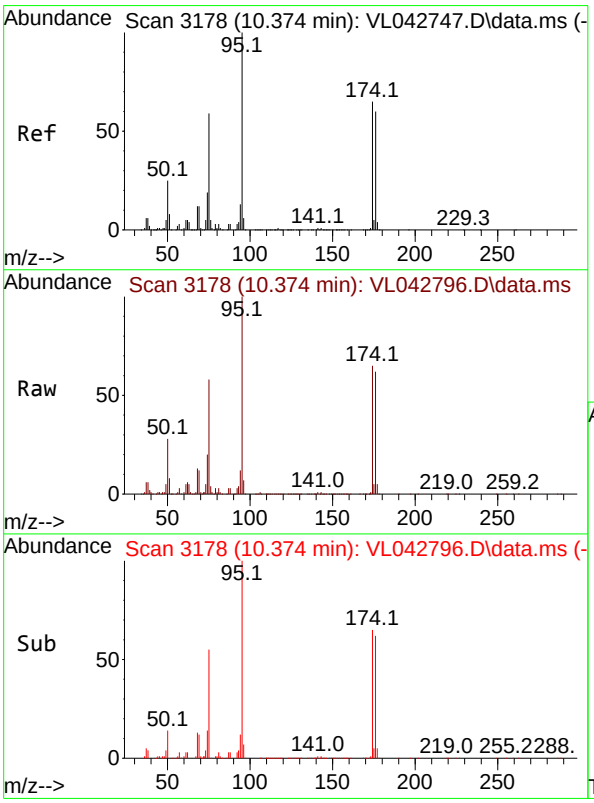
#67
sec-Butylbenzene
Concen: 11.365 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 1015003

Ion	Ratio	Lower	Upper
105	100		
134	19.7	15.5	23.3

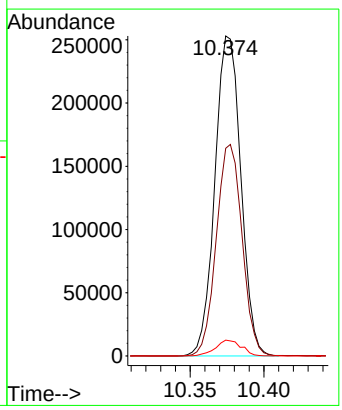


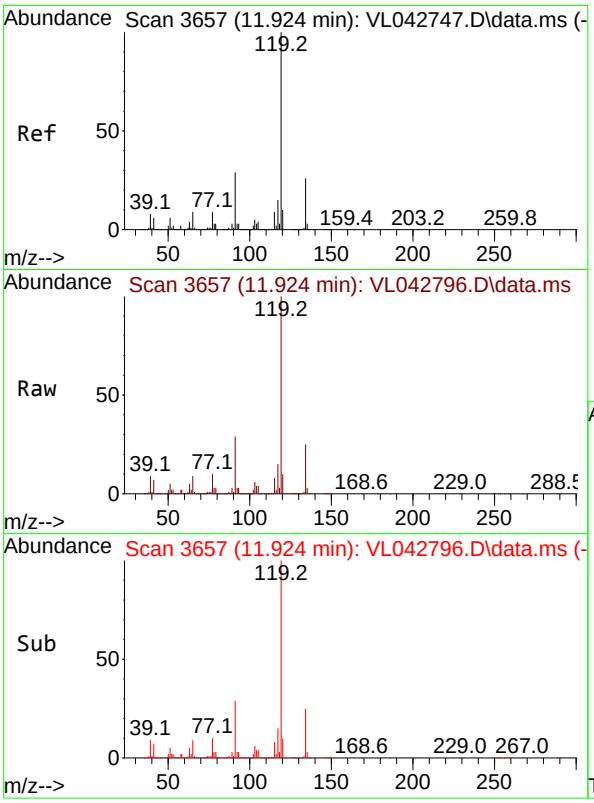


#68
1-Bromo-4-Fluorobenzene
Concen: 10.307 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 95 Resp: 310203

Ion	Ratio	Lower	Upper
95	100		
174	65.7	53.8	80.6
175	5.0	4.0	6.0



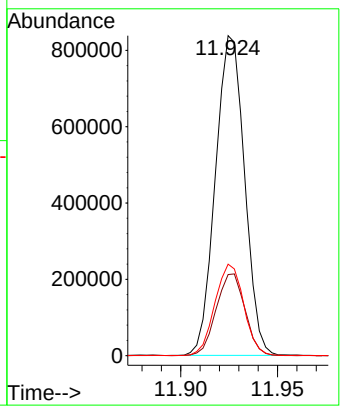


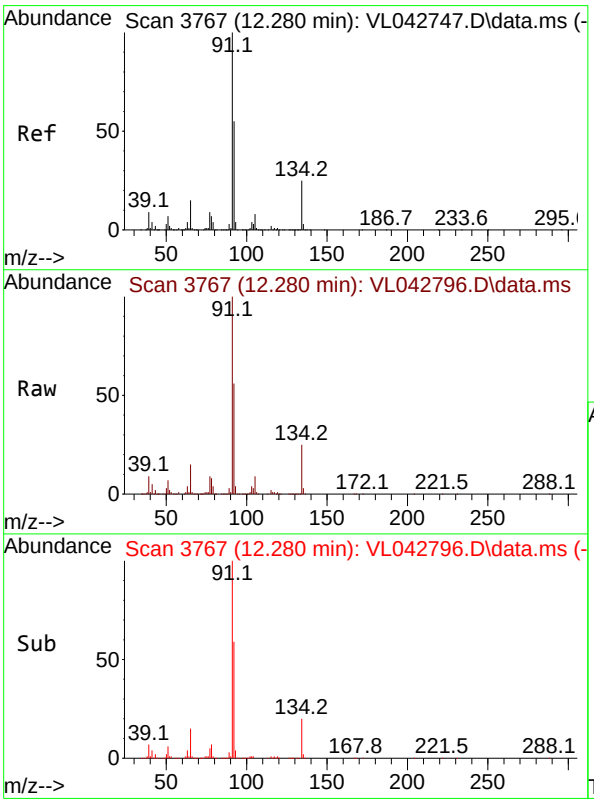
#69
p-Isopropyltoluene
Concen: 12.023 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 875506

Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.6	31.0
91	28.4	23.2	34.8

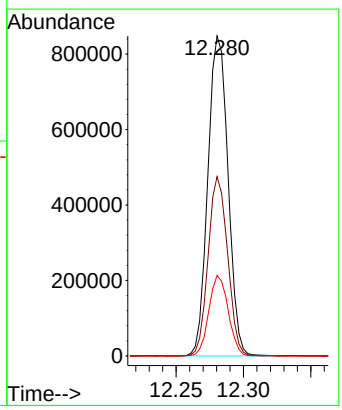


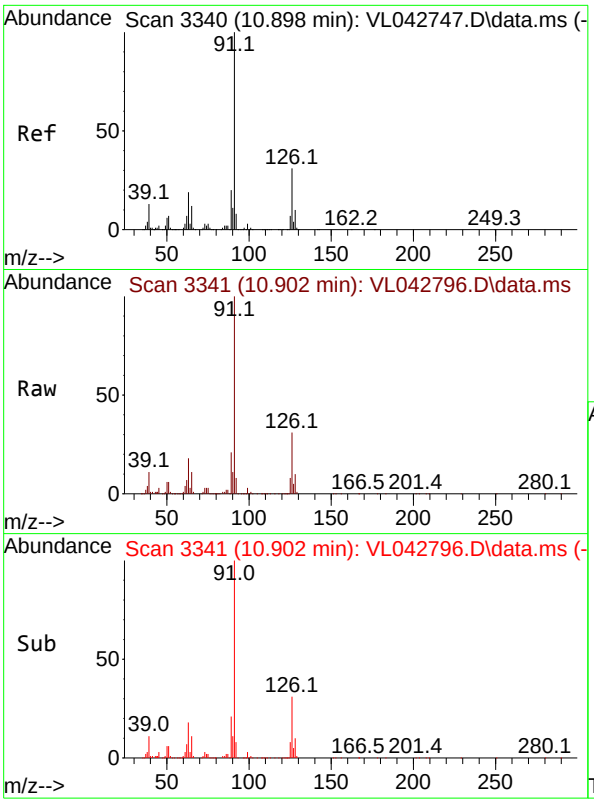


#70
n-Butylbenzene
Concen: 12.546 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion: 91 Resp: 882533

Ion	Ratio	Lower	Upper
91	100		
92	54.3	43.4	65.2
134	24.2	19.6	29.4



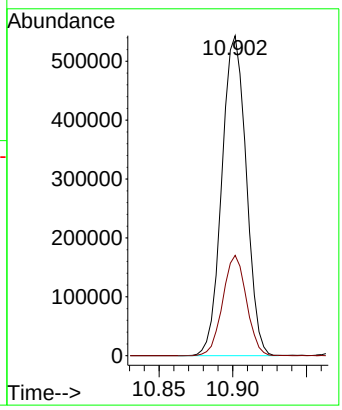


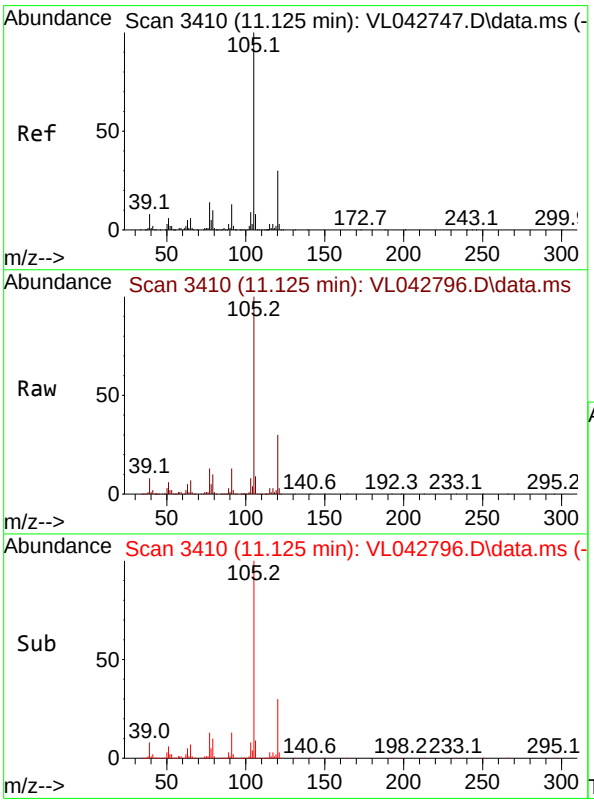
#71
2-Chlorotoluene
Concen: 11.499 ppbv
RT: 10.902 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 623268

Ion	Ratio	Lower	Upper
91	100		
126	30.5	12.0	48.2

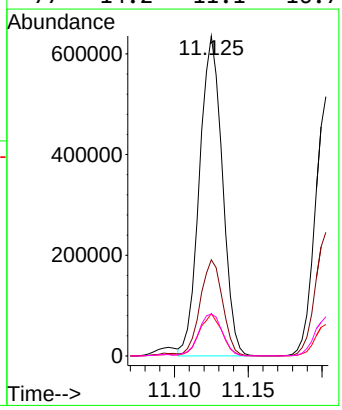


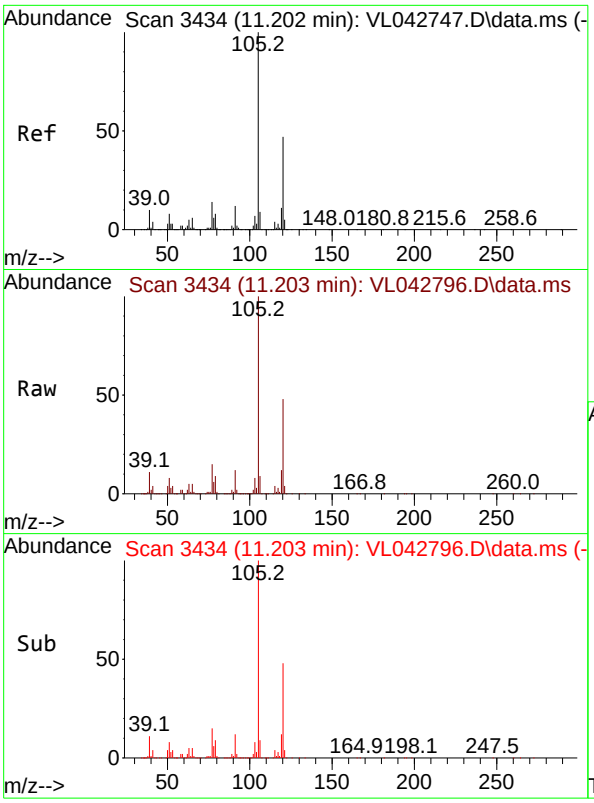


#72
4-Ethyltoluene
Concen: 11.973 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:105 Resp: 685255

Ion	Ratio	Lower	Upper
105	100		
120	30.2	24.4	36.6
91	13.3	10.6	15.8
77	14.2	11.1	16.7



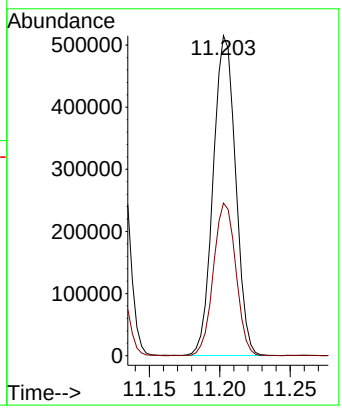


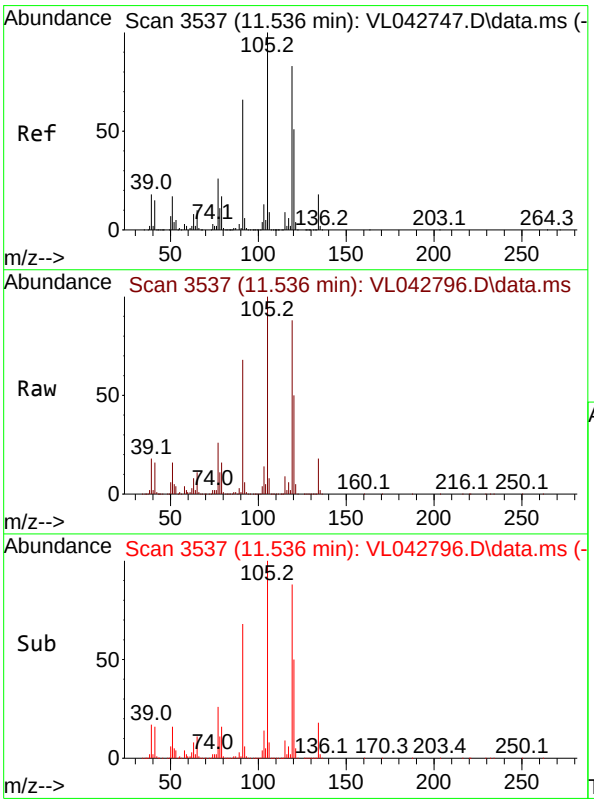
#73
1,3,5-Trimethylbenzene
Concen: 12.142 ppbv
RT: 11.203 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 572173

Ion	Ratio	Lower	Upper
105	100		
120	47.6	37.8	56.8

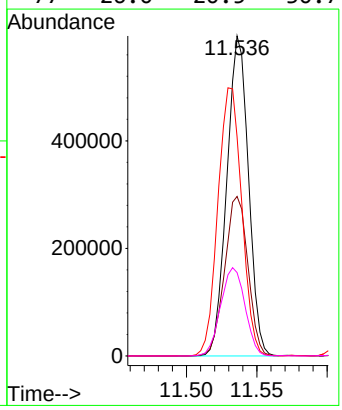


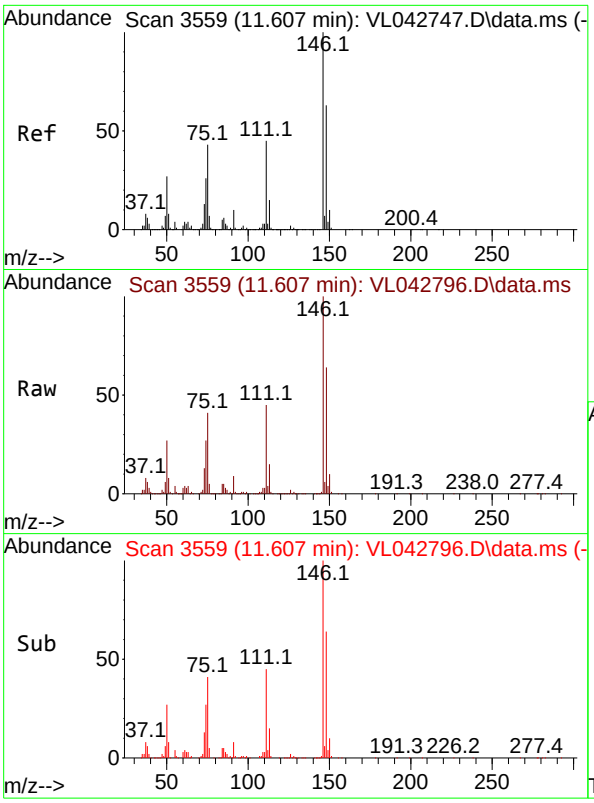


#74
1,2,4-Trimethylbenzene
Concen: 12.358 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:105 Resp: 635314

Ion	Ratio	Lower	Upper
105	100		
120	49.9	40.8	61.2
91	68.4	53.0	79.4
77	26.0	20.5	30.7



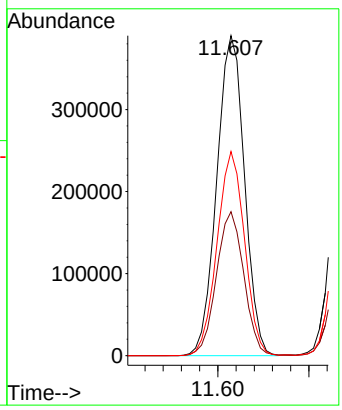


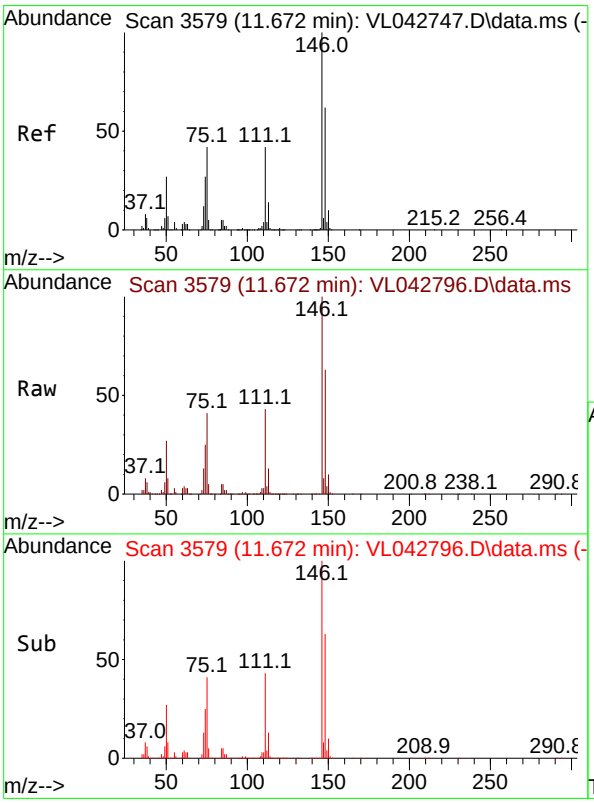
#75
1,3-Dichlorobenzene
Concen: 11.441 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 412343

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.7	68.0
148	63.3	31.9	95.5

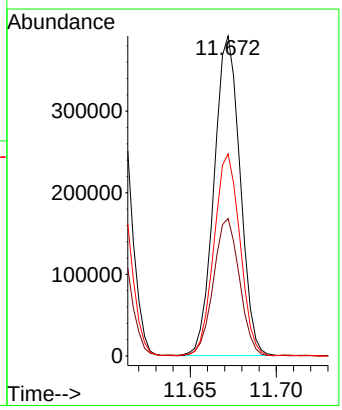


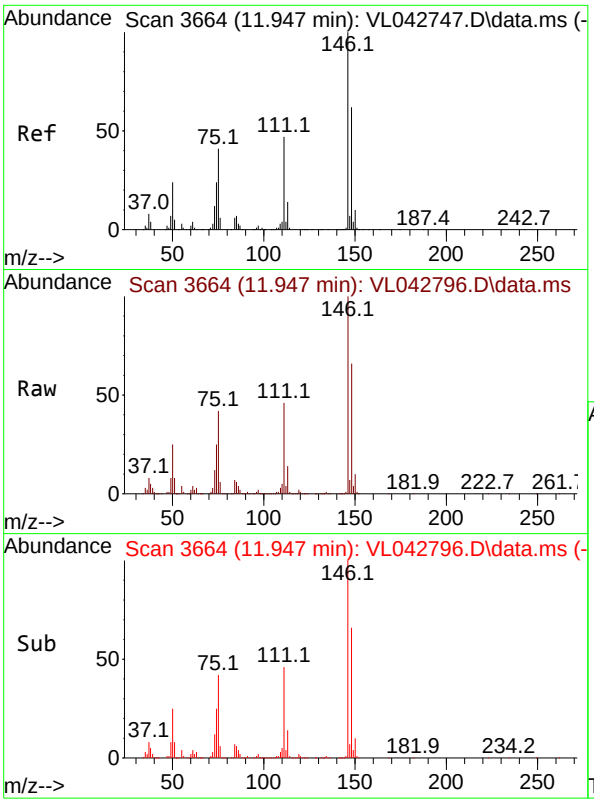


#76
1,4-Dichlorobenzene
Concen: 11.679 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:146 Resp: 411896

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.4	64.2
148	63.6	32.1	96.3



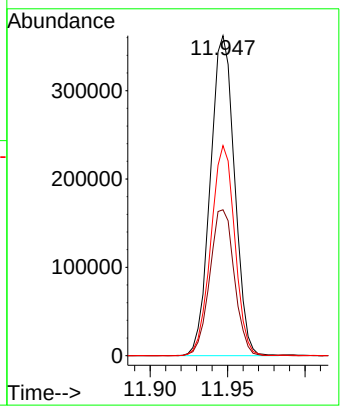


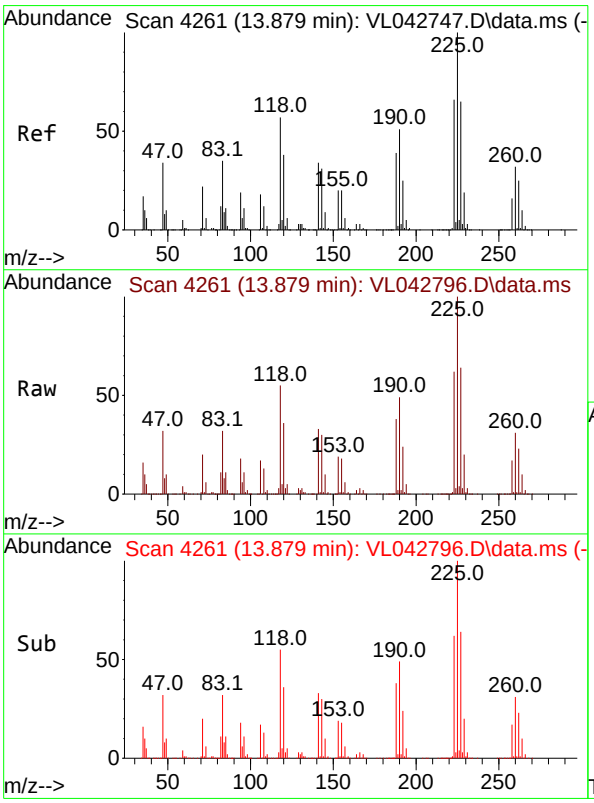
#77
1,2-Dichlorobenzene
Concen: 11.104 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 393333

Ion	Ratio	Lower	Upper
146	100		
111	46.5	23.7	71.1
148	64.9	32.6	97.7

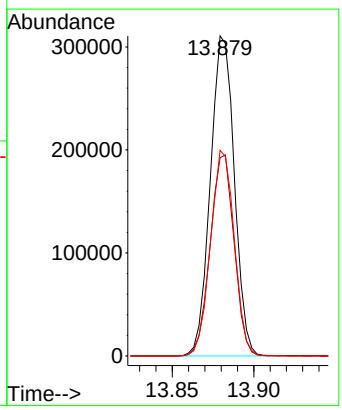


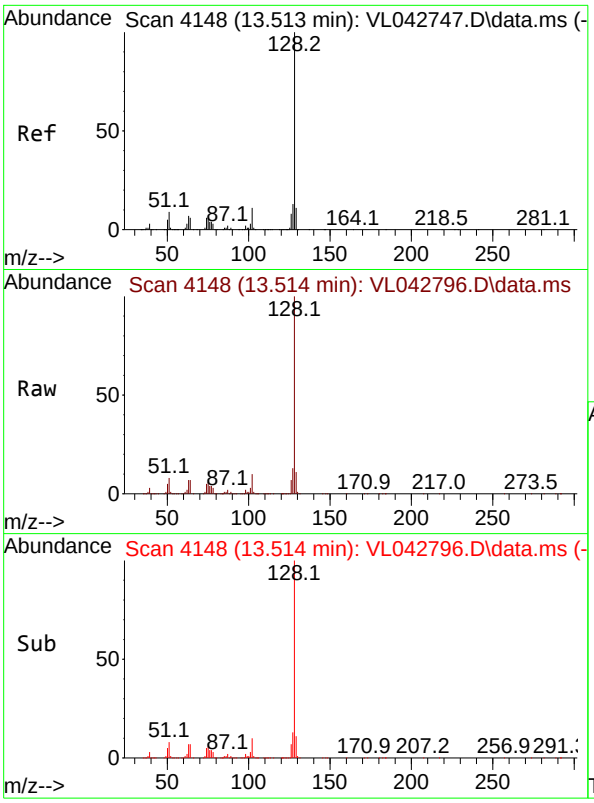


#78
Hexachloro-1,3-Butadiene
Concen: 9.905 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:225 Resp: 317563

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.7	76.1
227	63.6	50.5	75.7



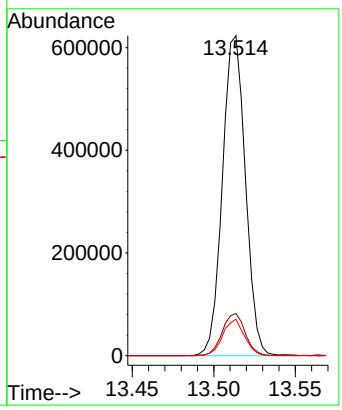


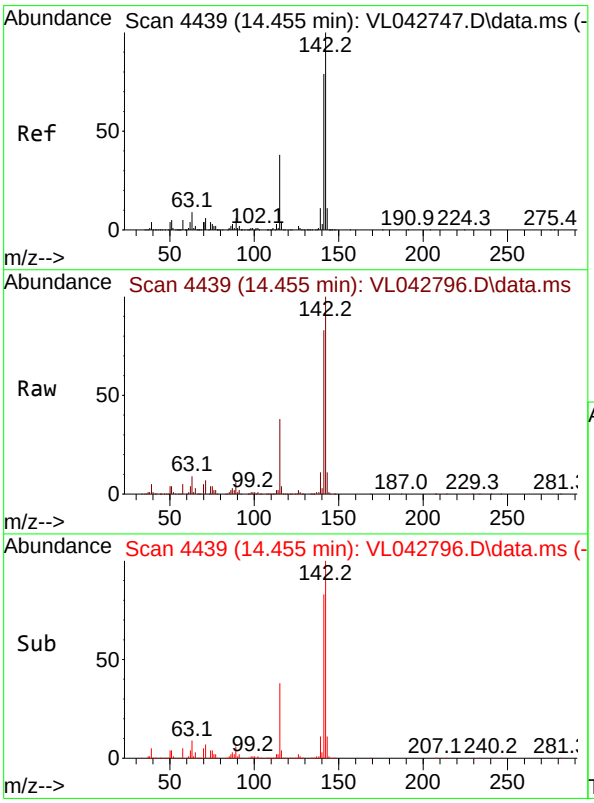
#79
Naphthalene
Concen: 10.889 ppbv
RT: 13.514 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:128 Resp: 609718

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	11.4	8.6	13.0

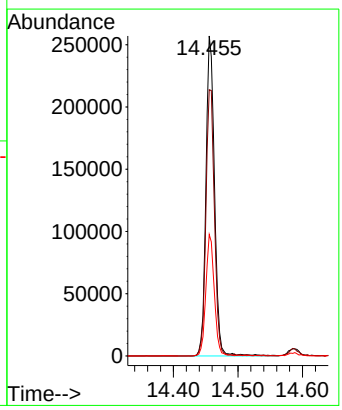


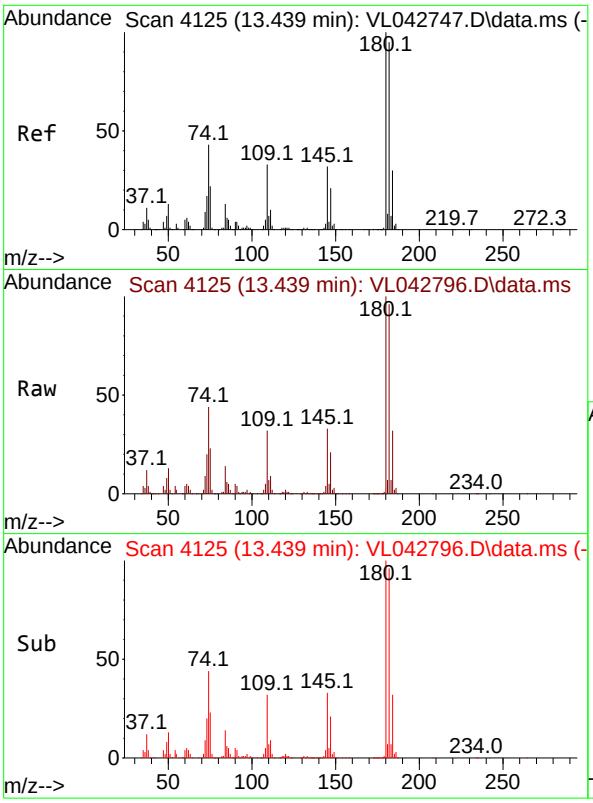


#80
Naphthalene,2-methyl-
Concen: 8.684 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Tgt Ion:142 Resp: 237582

Ion	Ratio	Lower	Upper
142	100		
141	84.0	65.8	98.8
115	38.0	31.2	46.8



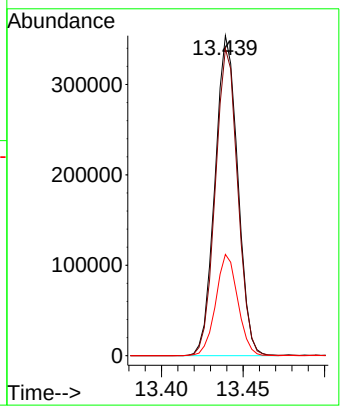


#81
1,2,4-Trichlorobenzene
Concen: 10.915 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042796.D
Acq: 04 Aug 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:180 Resp: 343523

Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.2	114.2
184	30.7	24.8	37.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042798.D
Acq On : 04 Aug 2025 10:58
Operator : SY/MD
Sample : VL0804ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Quant Time: Aug 05 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	152949	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	424278	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	379714	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	306318	10.187	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	210012	10.385	ppbv	97
3) Chlorodifluoromethane	1.476	51	276371	10.491	ppbv	100
4) Chloromethane	1.531	50	83517	10.208	ppbv	94
5) Vinyl Chloride	1.580	62	72902	9.019	ppbv	98
6) Bromomethane	1.667	94	32559	10.419	ppbv	93
7) Chloroethane	1.703	64	30002	9.606	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	168635	10.140	ppbv	99
9) Propene	1.483	41	96098	10.037	ppbv	97
10) Heptane	4.978	43	284663	11.027	ppbv	98
11) Trichlorofluoromethane	1.877	101	210535	10.100	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	162121	10.235	ppbv	99
13) Ethanol	1.719	45	7676	9.859	ppbv	94
14) Bromoethene	1.780	108	57843	10.313	ppbv	99
15) Acetone	1.832	43	175468	8.308	ppbv	99
16) 1,3-Butadiene	1.609	39	90012	9.992	ppbv	98
17) tert-Butyl alcohol	2.036	59	186238	9.777	ppbv	98
18) 1,1-Dichloroethene	2.033	96	70538	9.855	ppbv	92
19) Isopropyl Alcohol	1.884	45	111099	9.899	ppbv	99
20) Methylene Chloride	2.059	84	62223	9.349	ppbv	96
21) Allyl Chloride	2.094	41	138811	10.664	ppbv	96
22) trans-1,2-Dichloroethene	2.340	96	79678	10.348	ppbv	91
23) Vinyl Acetate	2.460	43	275096	10.744	ppbv	99
24) 1,1-Dichloroethane	2.408	63	162025	10.252	ppbv	99
25) Ethyl Acetate	2.832	43	509939	10.908	ppbv	100
26) Hexane	2.823	57	217430	10.603	ppbv	98
27) Carbon Disulfide	2.149	76	193468	11.020	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	87317	9.013	ppbv	100
29) Chloroform	2.845	83	341292	10.770	ppbv	100
30) Cyclohexane	3.855	84	182892	10.516	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	220340	10.456	ppbv	99
32) 1,1,1-Trichloroethane	3.363	97	332840	10.083	ppbv	99
34) 2-Butanone	2.554	43	328262	10.922	ppbv	99
35) Carbon Tetrachloride	3.761	117	352113	11.173	ppbv	99
36) Benzene	3.654	78	442780	11.012	ppbv	97
37) 1,2-Dichloroethane	3.214	62	263215	10.867	ppbv	100
38) Trichloroethene	4.544	130	196304	10.162	ppbv	98
39) 1,2-Dichloropropane	4.311	63	160594	10.820	ppbv	98
40) 1,4-Dioxane	4.577	88	74021	10.699	ppbv #	96
41) Tetrahydrofuran	3.049	42	177182	11.586	ppbv	99
42) Bromodichloromethane	4.486	83	363538	11.524	ppbv	97
43) Methyl Methacrylate	4.875	69	164875	11.536	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	747668	11.408	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	186189	11.617	ppbv	95

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042798.D
Acq On : 04 Aug 2025 10:58
Operator : SY/MD
Sample : VL0804ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Quant Time: Aug 05 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

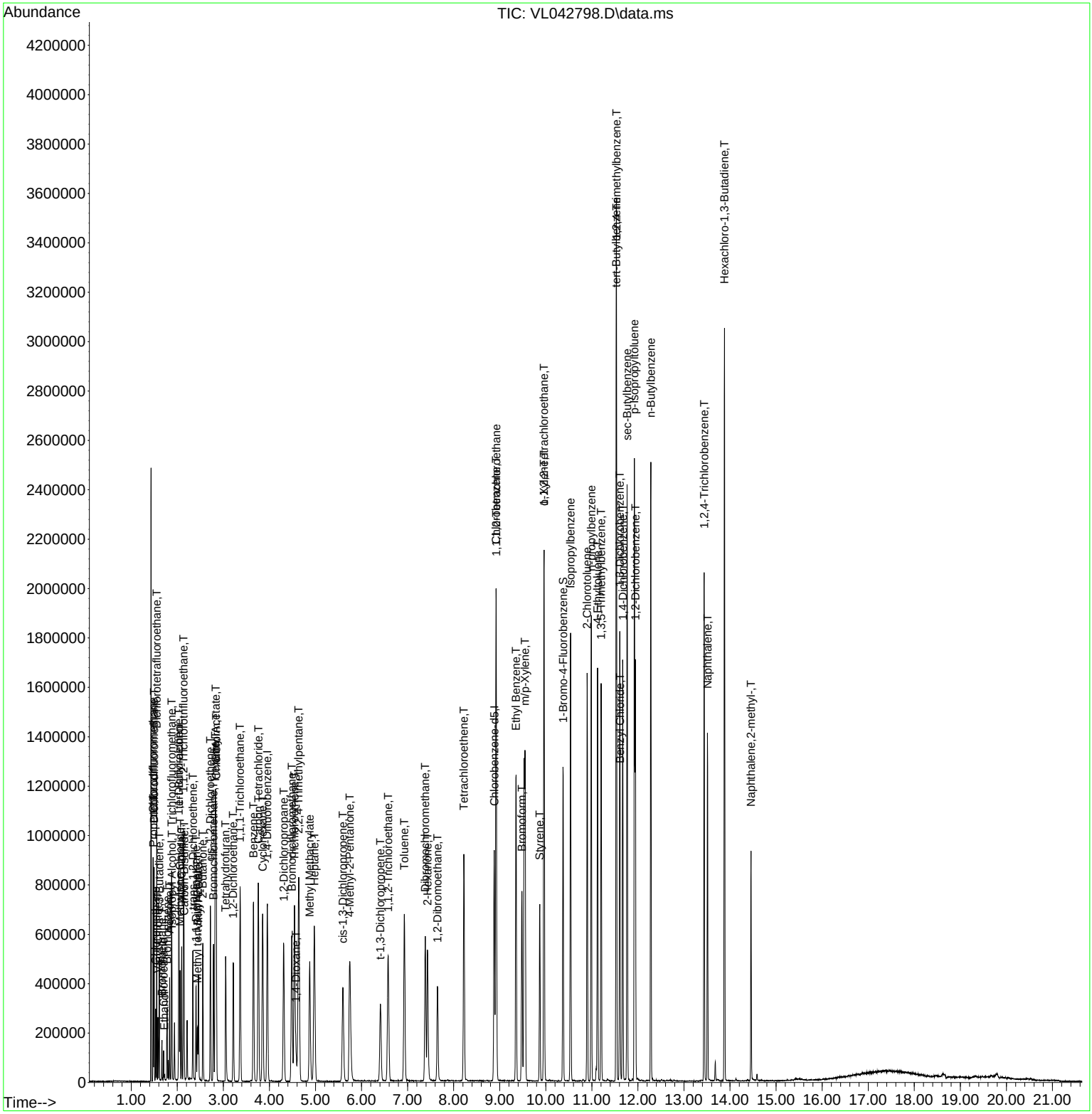
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	233634	11.503	ppbv		97
47) 1,1,2-Trichloroethane	6.580	97	95724	6.050	ppbv		94
48) Dibromochloromethane	7.383	129	291861	11.619	ppbv		99
49) Bromoform	9.484	173	256208	11.698	ppbv		97
50) 4-Methyl-2-Pentanone	5.745	43	449115	11.601	ppbv		98
51) 2-Hexanone	7.431	43	361190	12.346	ppbv	#	97
52) Tetrachloroethene	8.221	164	161678	9.700	ppbv		96
53) Toluene	6.930	91	483690	11.202	ppbv		99
54) 1,2-Dibromoethane	7.648	107	245100	10.964	ppbv		94
56) 1,1,1,2-Tetrachloroethane	8.924	131	223105	11.301	ppbv		99
57) Chlorobenzene	8.920	112	399269	10.865	ppbv		97
58) Ethyl Benzene	9.354	91	691812	11.537	ppbv		97
59) m/p-Xylene	9.548	91	492902	10.285	ppbv	#	10
60) o-Xylene	9.963	91	556987	11.631	ppbv		100
61) Styrene	9.869	104	236466	11.739	ppbv		99
62) Isopropylbenzene	10.539	105	810117	11.469	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.963	83	328751	10.693	ppbv		99
64) n-propylbenzene	10.989	120	218340	11.857	ppbv		98
65) tert-Butylbenzene	11.529	119	733198	11.686	ppbv		100
66) Benzyl Chloride	11.613	91	71791	13.938	ppbv		99
67) sec-Butylbenzene	11.765	105	1022370	11.457	ppbv		100
69) p-Isopropyltoluene	11.924	119	859339	11.810	ppbv		100
70) n-Butylbenzene	12.280	91	882919	12.562	ppbv		100
71) 2-Chlorotoluene	10.898	91	616427	11.381	ppbv		100
72) 4-Ethyltoluene	11.124	105	690989	12.083	ppbv		99
73) 1,3,5-Trimethylbenzene	11.202	105	570034	12.106	ppbv		99
74) 1,2,4-Trimethylbenzene	11.536	105	629983	12.264	ppbv		98
75) 1,3-Dichlorobenzene	11.607	146	415697	11.543	ppbv		98
76) 1,4-Dichlorobenzene	11.672	146	408005	11.578	ppbv		99
77) 1,2-Dichlorobenzene	11.947	146	395047	11.161	ppbv		98
78) Hexachloro-1,3-Butadiene	13.879	225	315657	9.853	ppbv		99
79) Naphthalene	13.510	128	605271	10.821	ppbv		98
80) Naphthalene,2-methyl-	14.455	142	236391	8.652	ppbv		97
81) 1,2,4-Trichlorobenzene	13.439	180	347712	11.052	ppbv		99

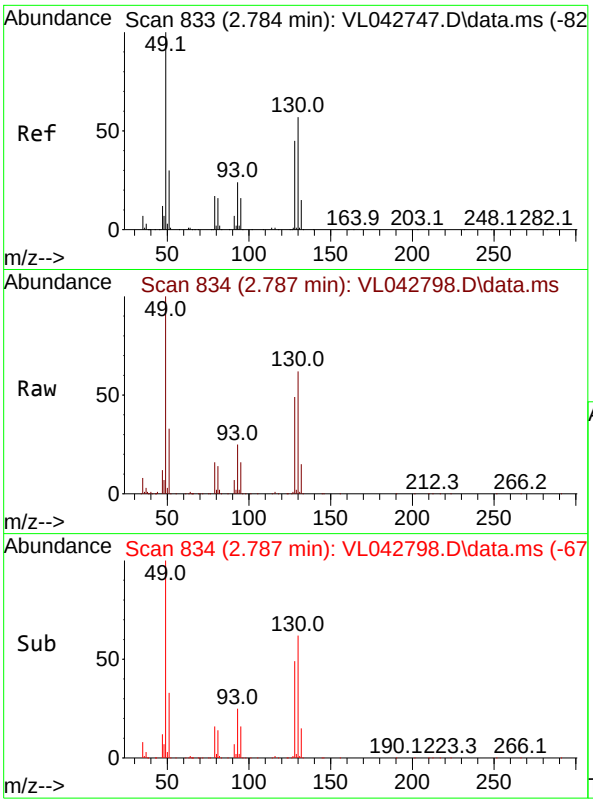
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042798.D
Acq On : 04 Aug 2025 10:58
Operator : SY/MD
Sample : VL0804ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Quant Time: Aug 05 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



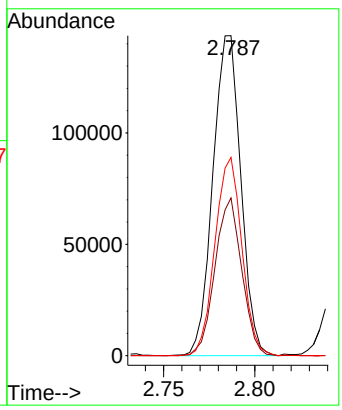


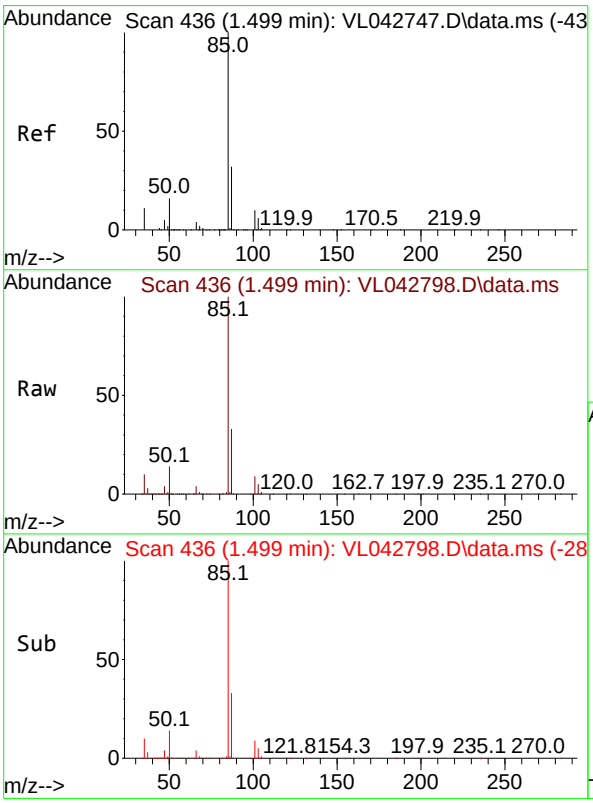
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 49 Resp: 152949

Ion	Ratio	Lower	Upper
49	100		
128	47.2	23.6	71.0
130	59.8	30.3	90.8

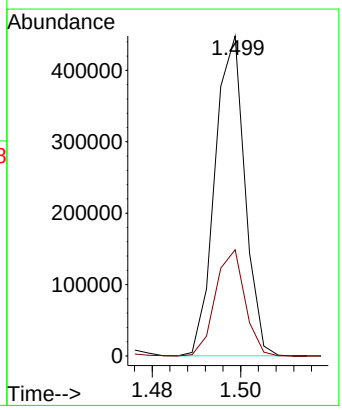


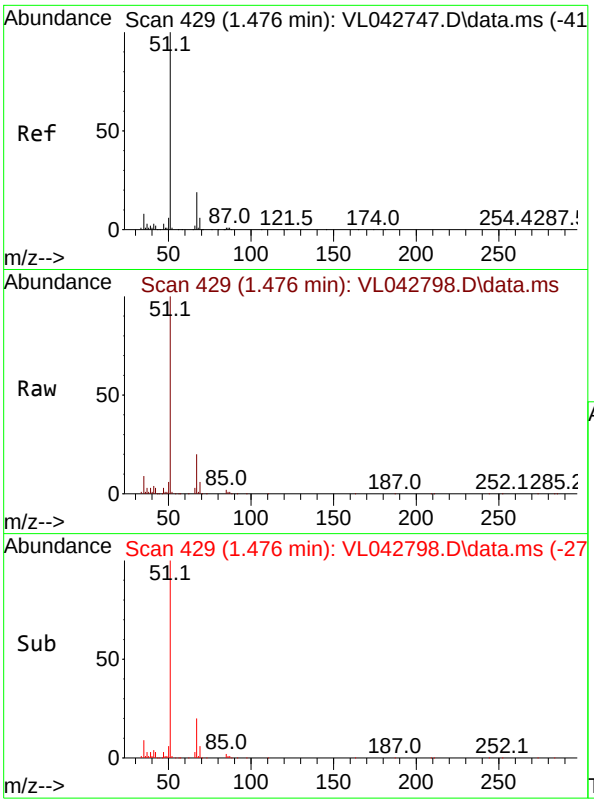


#2
Dichlorodifluoromethane
Concen: 10.385 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 85 Resp: 210012

Ion	Ratio	Lower	Upper
85	100		
87	33.2	25.4	38.2



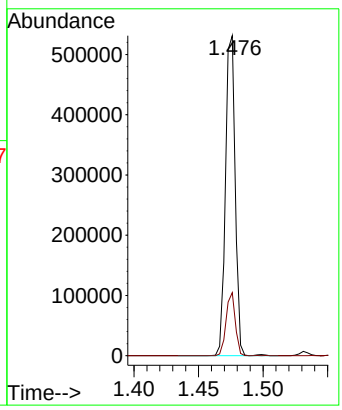


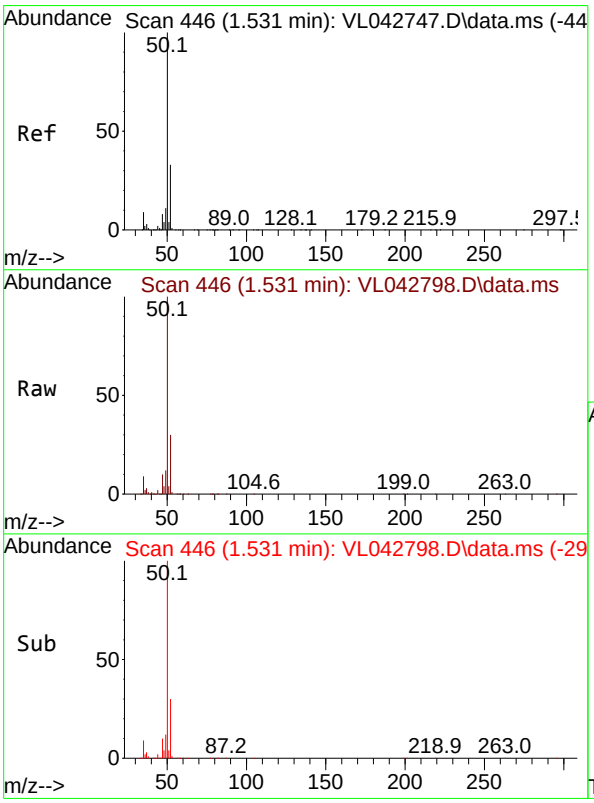
#3
Chlorodifluoromethane
Concen: 10.491 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 51 Resp: 276371

Ion	Ratio	Lower	Upper
51	100		
67	18.7	15.0	22.6

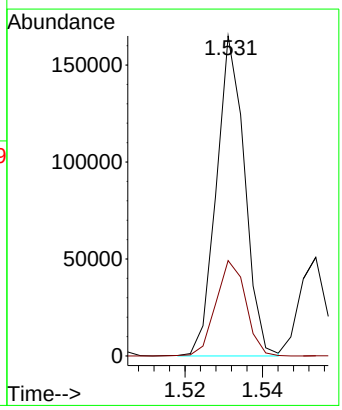


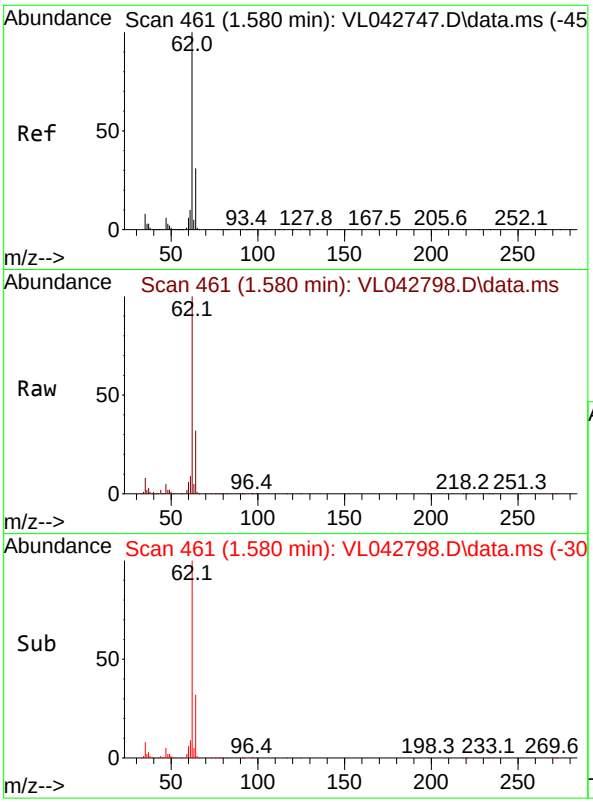


#4
Chloromethane
Concen: 10.208 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 50 Resp: 83517

Ion	Ratio	Lower	Upper
50	100		
52	29.7	26.6	40.0



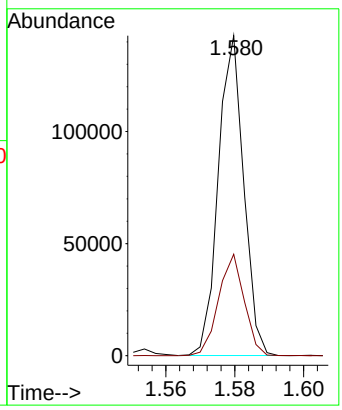


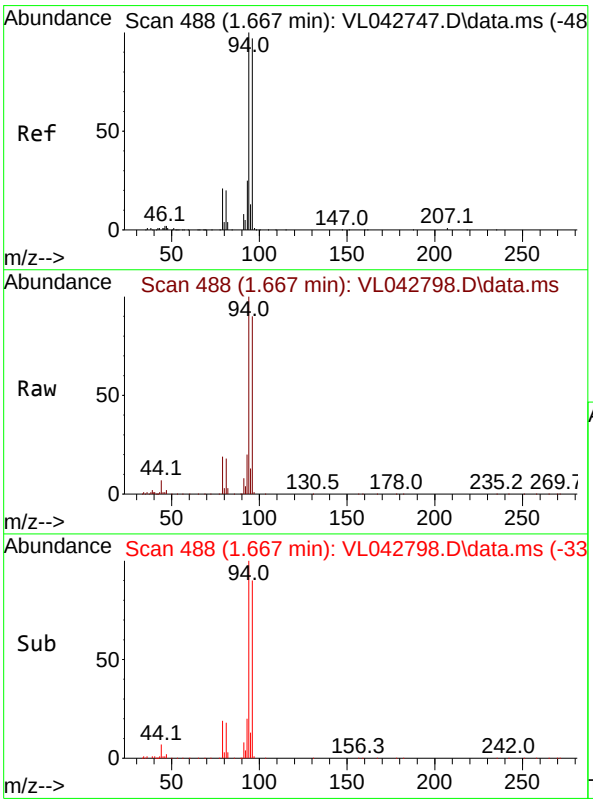
#5
Vinyl Chloride
Concen: 9.019 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 62 Resp: 72902

Ion	Ratio	Lower	Upper
62	100		
64	31.7	24.5	36.7

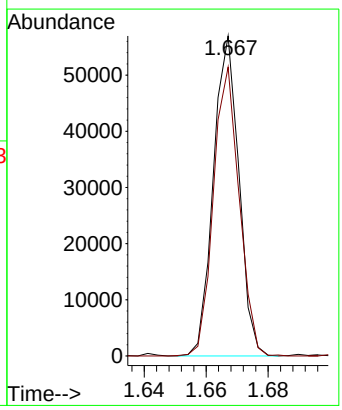


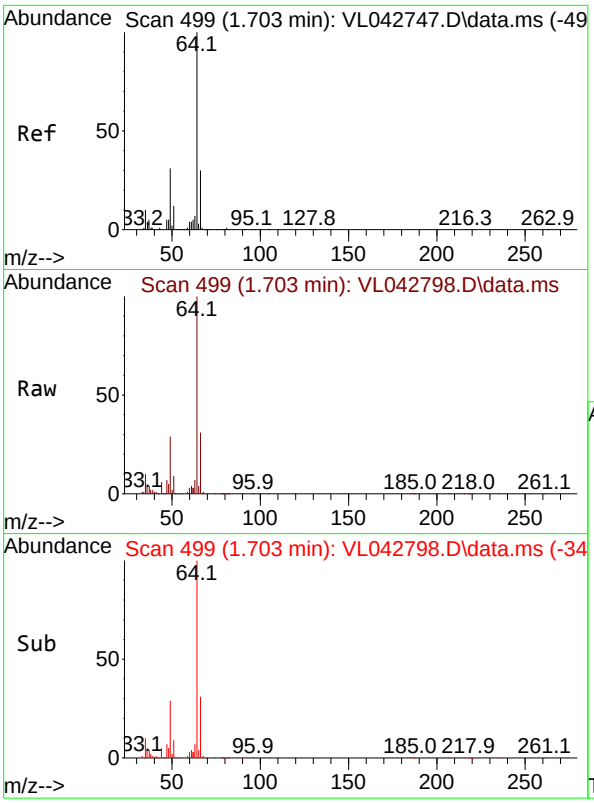


#6
Bromomethane
Concen: 10.419 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 94 Resp: 32559

Ion	Ratio	Lower	Upper
94	100		
96	90.1	77.6	116.4



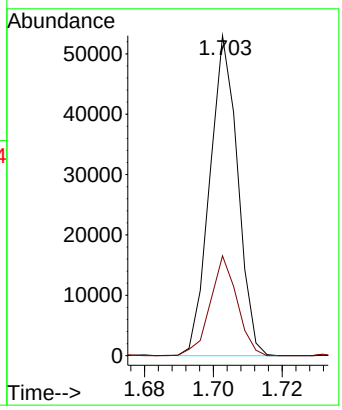


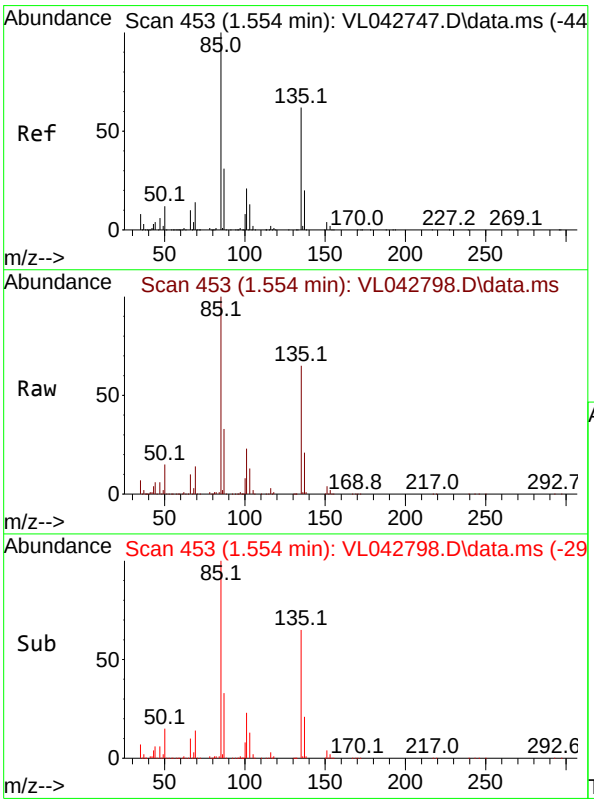
#7
Chloroethane
Concen: 9.606 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 64 Resp: 30002

Ion	Ratio	Lower	Upper
64	100		
66	31.2	24.1	36.1

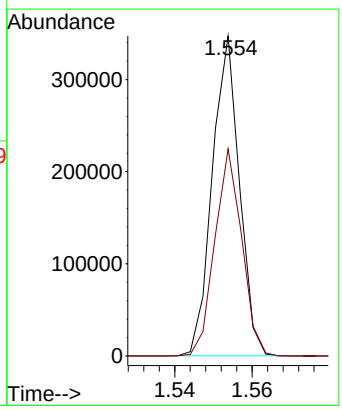


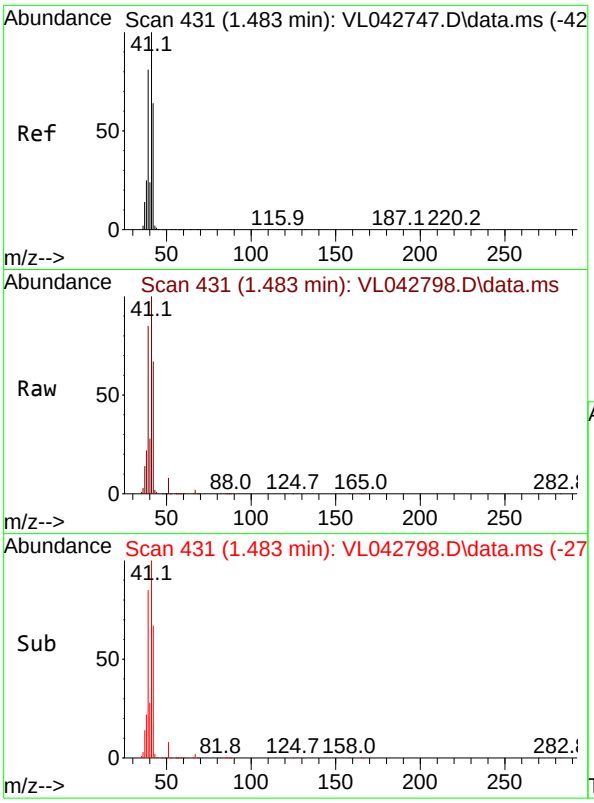


#8
Dichlorotetrafluoroethane
Concen: 10.140 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 85 Resp: 168635

Ion	Ratio	Lower	Upper
85	100		
135	64.4	50.6	76.0



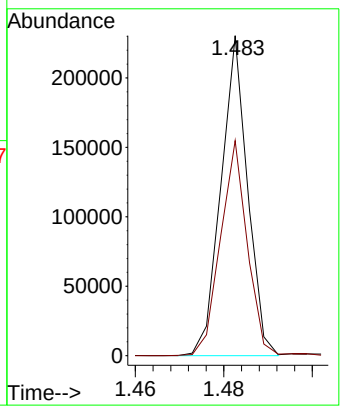


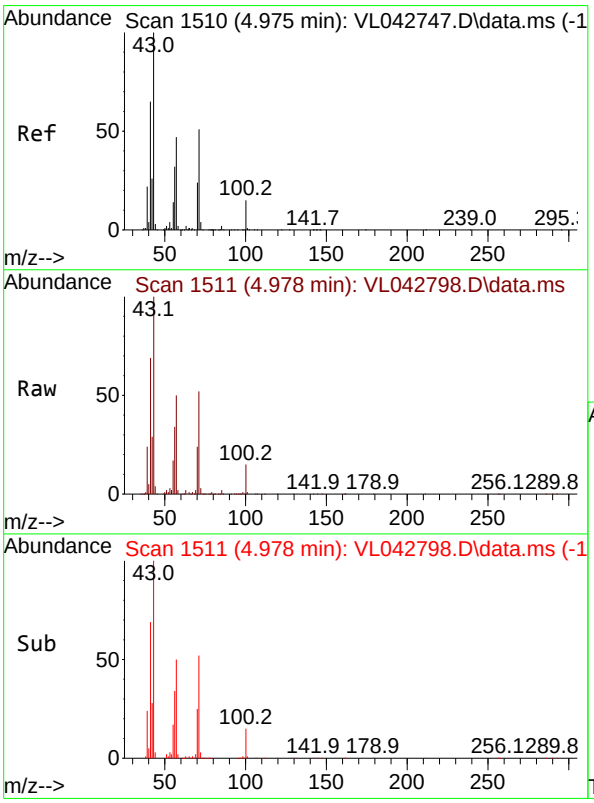
#9
Propene
Concen: 10.037 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 41 Resp: 96098

Ion	Ratio	Lower	Upper
41	100		
42	68.5	53.2	79.8

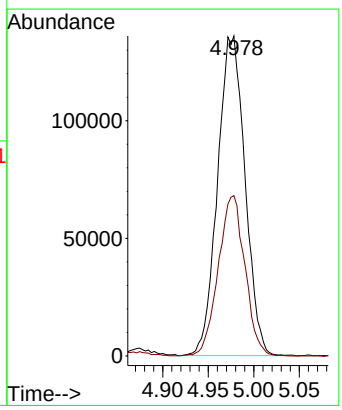


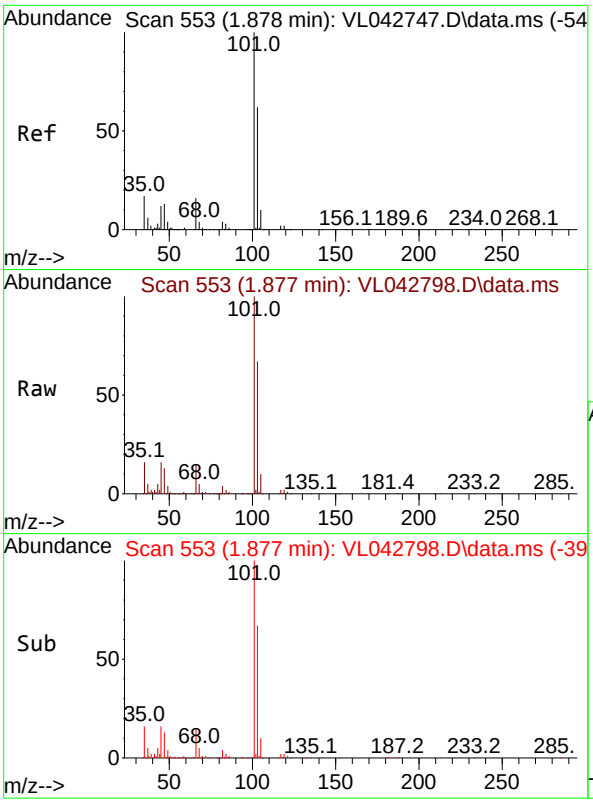


#10
Heptane
Concen: 11.027 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 43 Resp: 284663

Ion	Ratio	Lower	Upper
43	100		
57	48.8	39.9	59.9



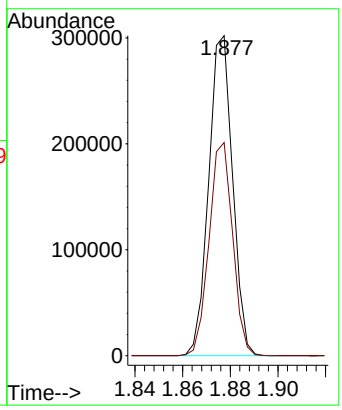


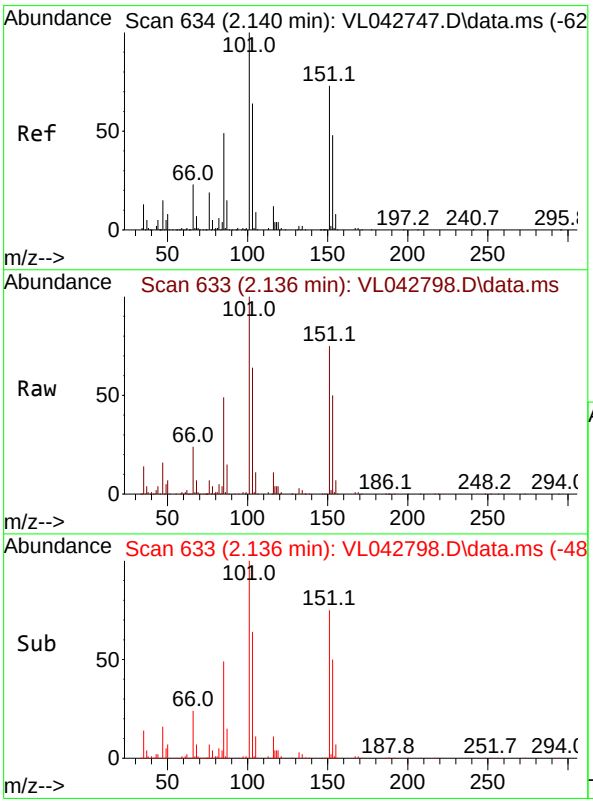
#11
Trichlorofluoromethane
Concen: 10.100 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:101 Resp: 210535

Ion	Ratio	Lower	Upper
101	100		
103	66.6	49.6	74.4

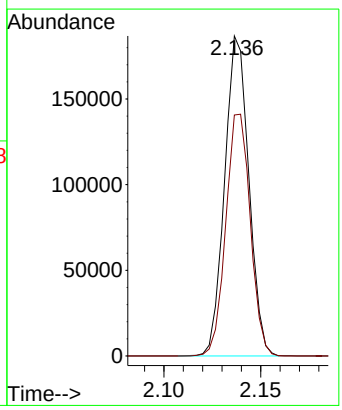


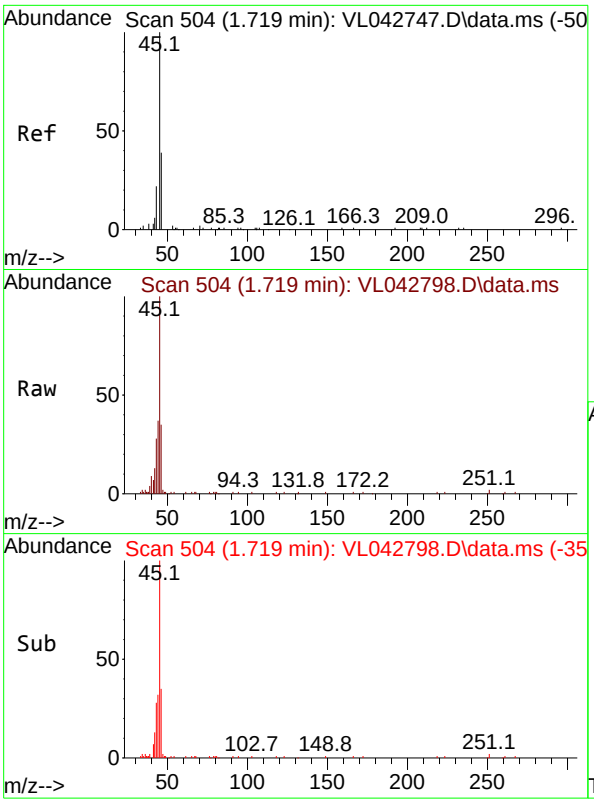


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.235 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:101 Resp: 162121

Ion	Ratio	Lower	Upper
101	100		
151	76.6	60.5	90.7



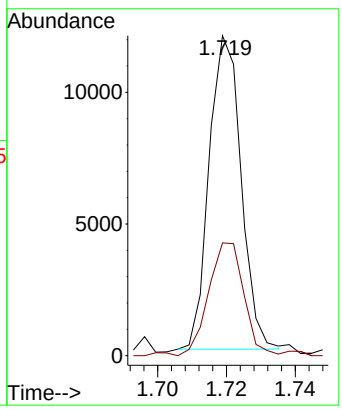


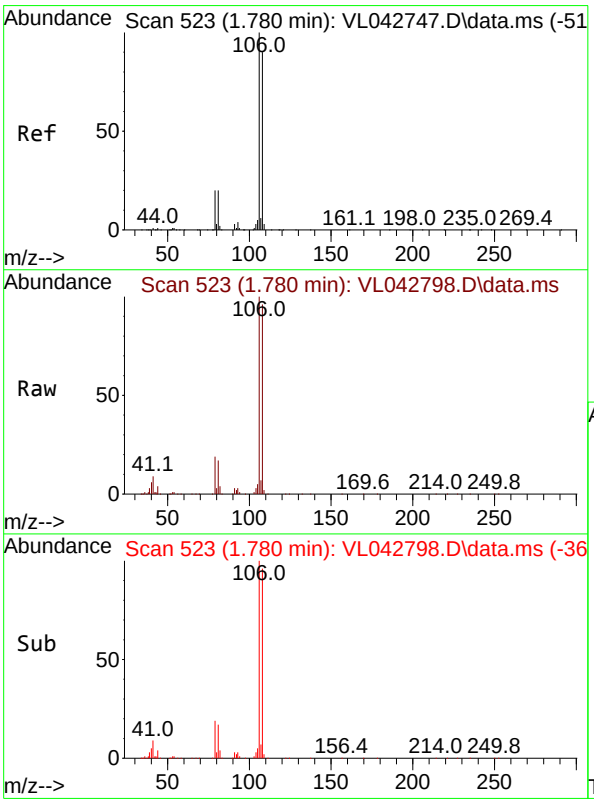
#13
Ethanol
Concen: 9.859 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 45 Resp: 7676

Ion	Ratio	Lower	Upper
45	100		
46	40.9	17.8	71.4

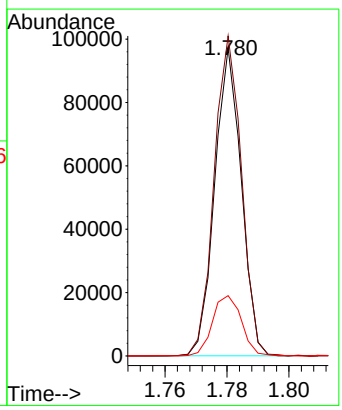


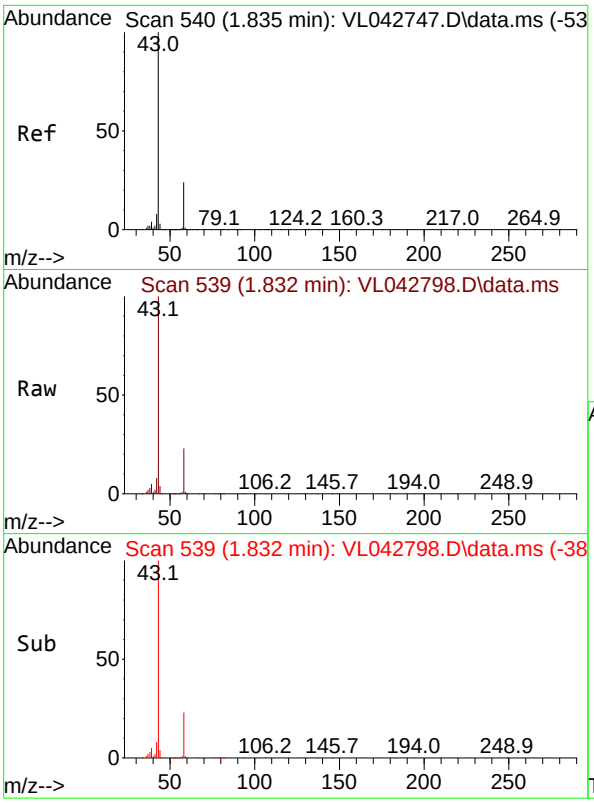


#14
Bromoethene
Concen: 10.313 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:108 Resp: 57843

Ion	Ratio	Lower	Upper
108	100		
106	107.0	84.7	127.1
79	21.9	17.4	26.2



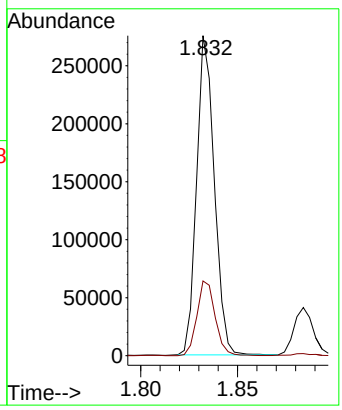


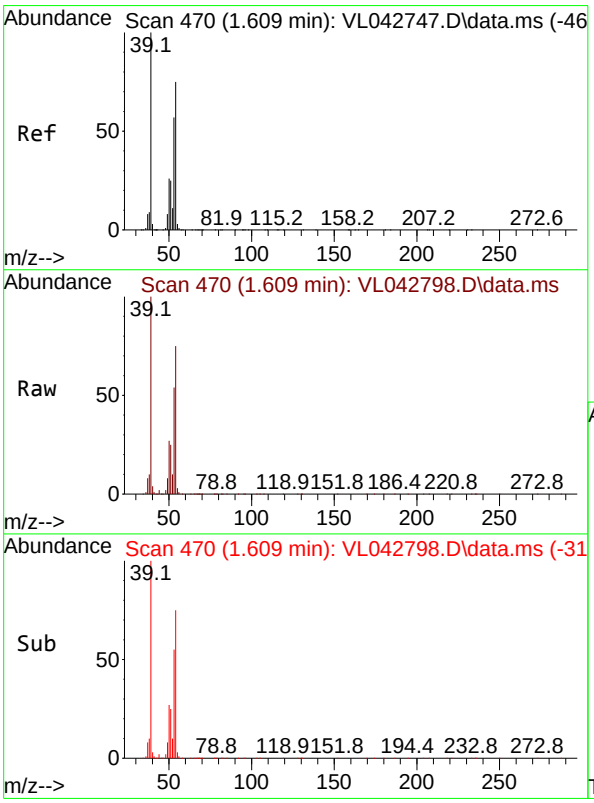
#15
Acetone
Concen: 8.308 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 43 Resp: 175468

Ion	Ratio	Lower	Upper
43	100		
58	24.2	19.8	29.8

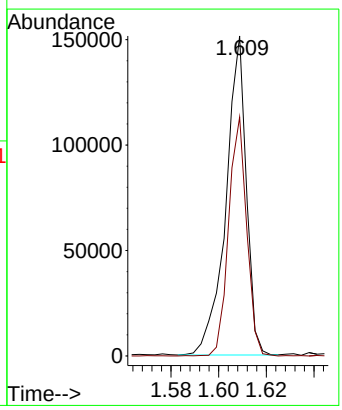


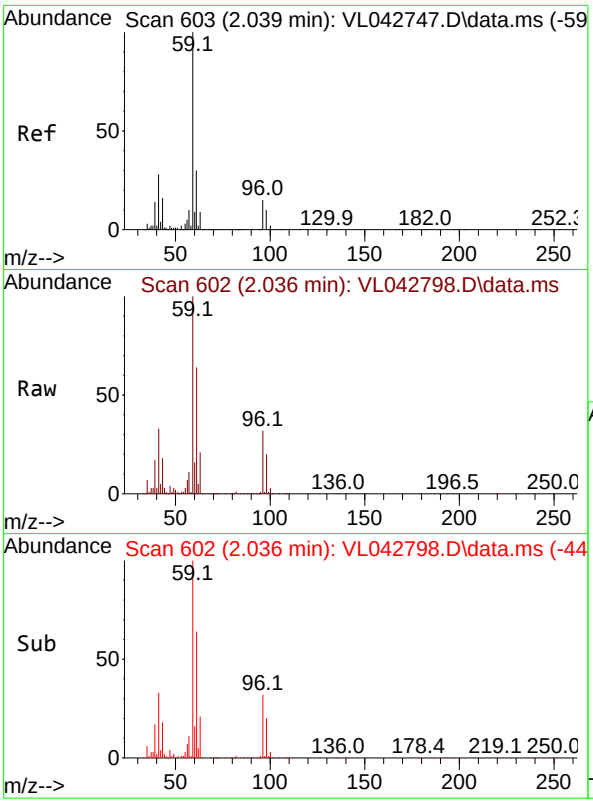


#16
1,3-Butadiene
Concen: 9.992 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 39 Resp: 90012

Ion	Ratio	Lower	Upper
39	100		
54	66.4	54.5	81.7



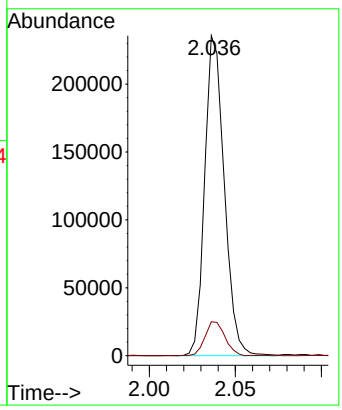


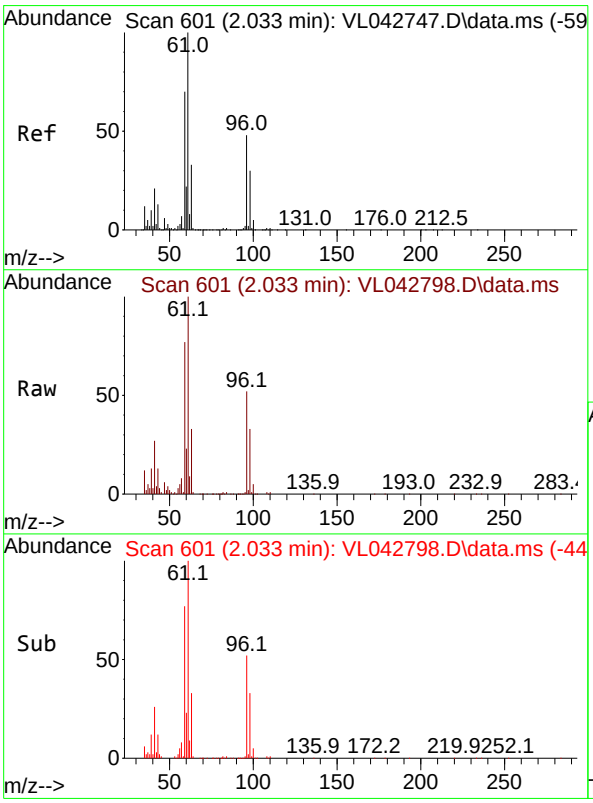
#17
tert-Butyl alcohol
Concen: 9.777 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 59 Resp: 186238

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.3	12.5

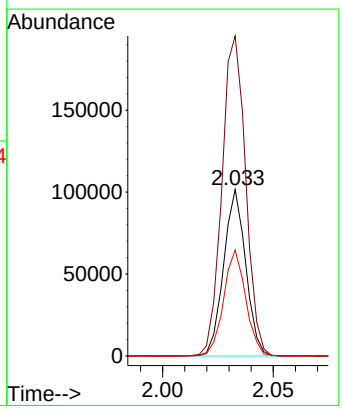


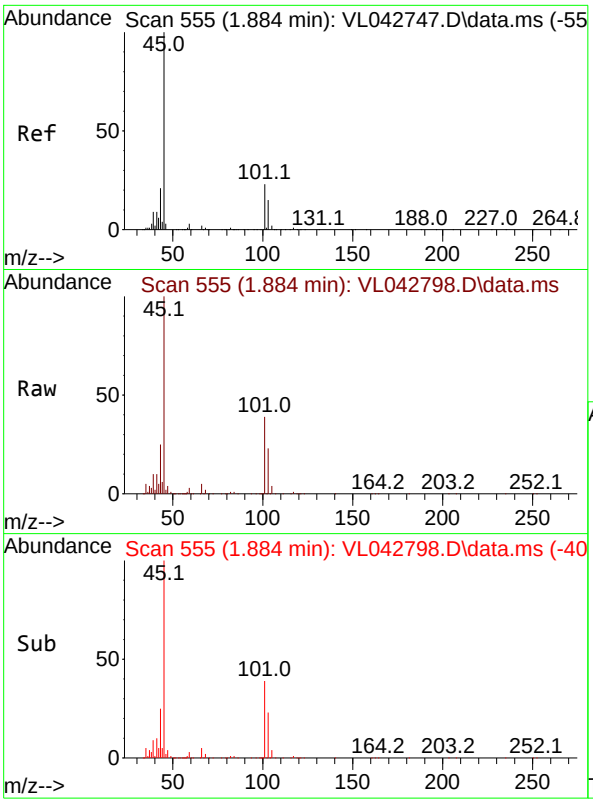


#18
1,1-Dichloroethene
Concen: 9.855 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 96 Resp: 70538

Ion	Ratio	Lower	Upper
96	100		
61	192.3	165.8	248.6
98	63.7	49.9	74.9



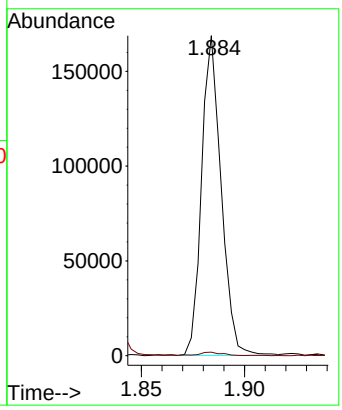


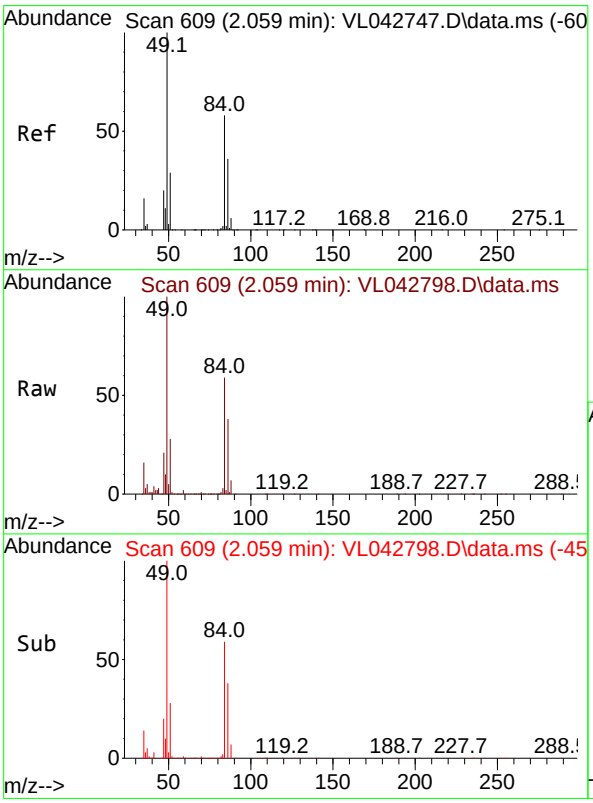
#19
Isopropyl Alcohol
Concen: 9.899 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 45 Resp: 111099

Ion	Ratio	Lower	Upper
45	100		
58	38.2	30.0	45.0

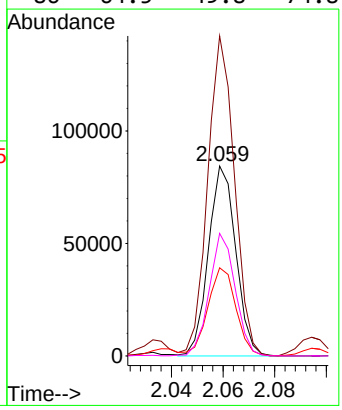


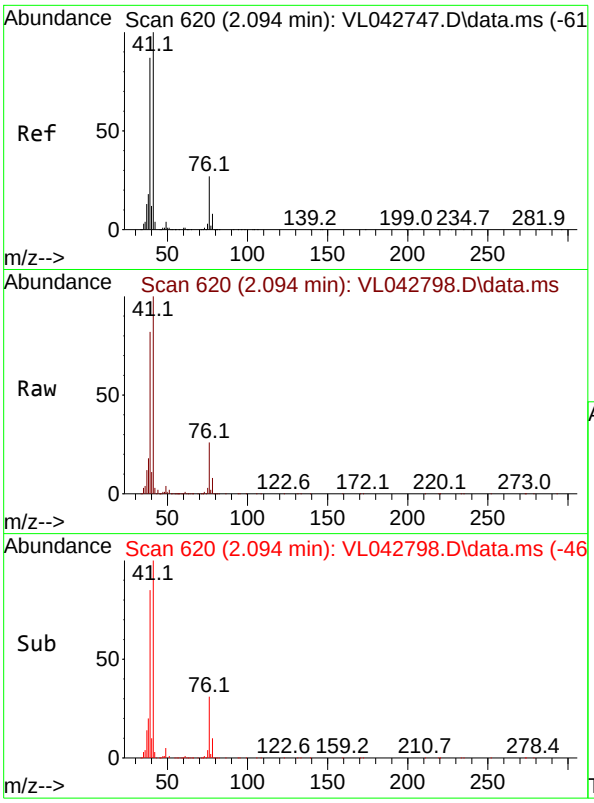


#20
Methylene Chloride
Concen: 9.349 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 84 Resp: 62223

Ion	Ratio	Lower	Upper
84	100		
49	168.4	138.6	208.0
51	46.4	40.6	61.0
86	64.5	49.8	74.8



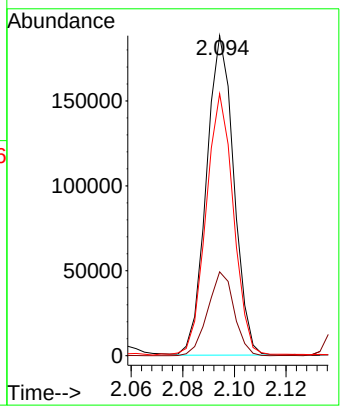


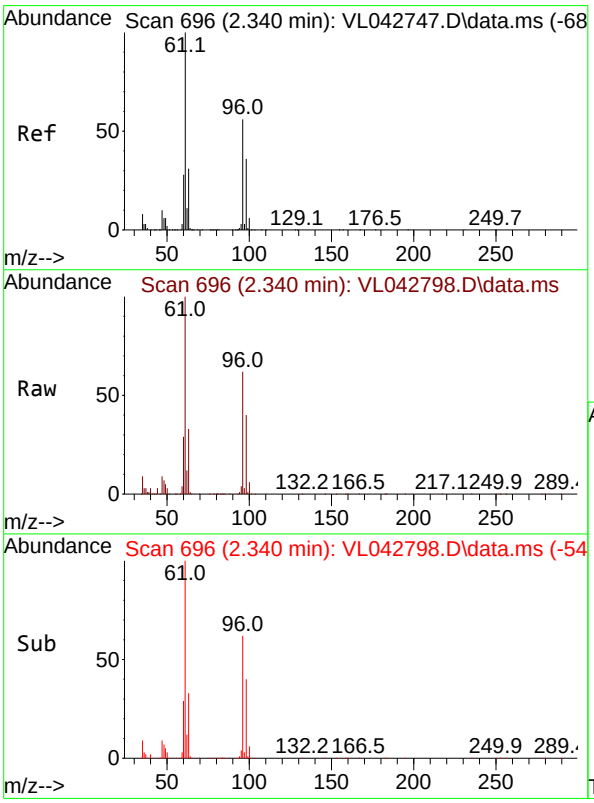
#21
Allyl Chloride
Concen: 10.664 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 41 Resp: 138811

Ion	Ratio	Lower	Upper
41	100		
76	25.2	21.1	31.7
39	81.3	68.3	102.5

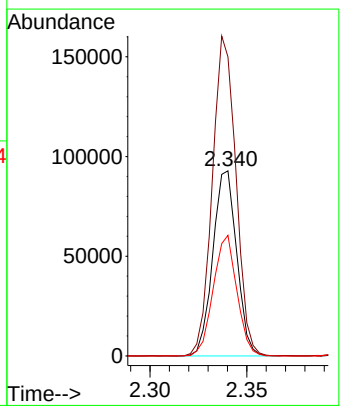


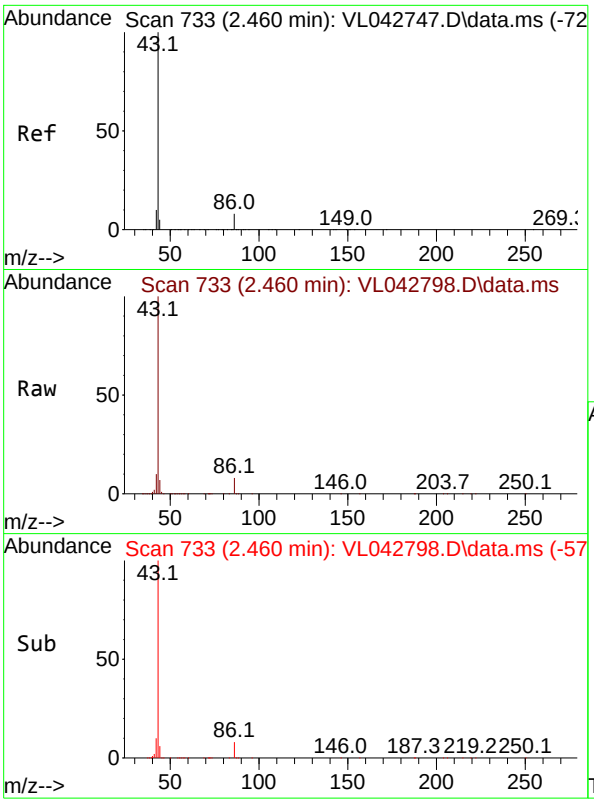


#22
trans-1,2-Dichloroethene
Concen: 10.348 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 96 Resp: 79678

Ion	Ratio	Lower	Upper
96	100		
61	161.5	142.3	213.5
98	65.1	50.6	76.0



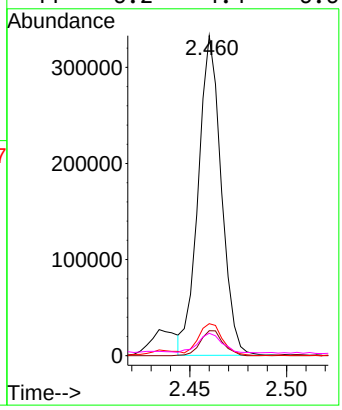


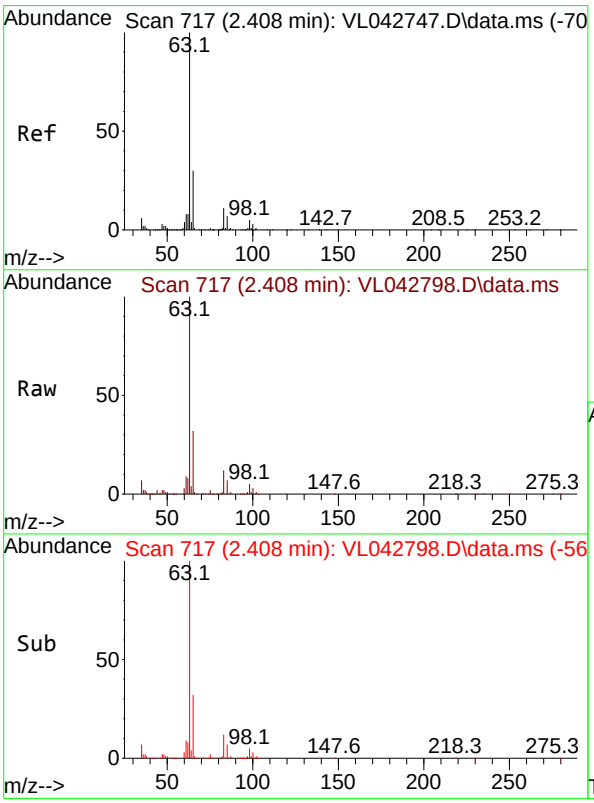
#23
Vinyl Acetate
Concen: 10.744 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 43 Resp: 275096

Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.1	9.1
42	9.8	7.8	11.8
44	6.2	4.4	6.6

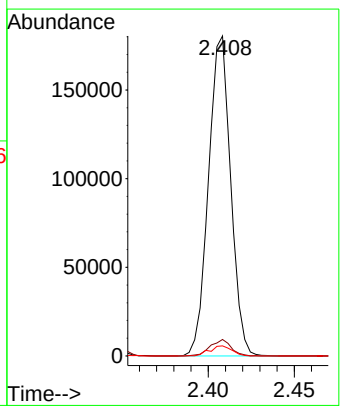


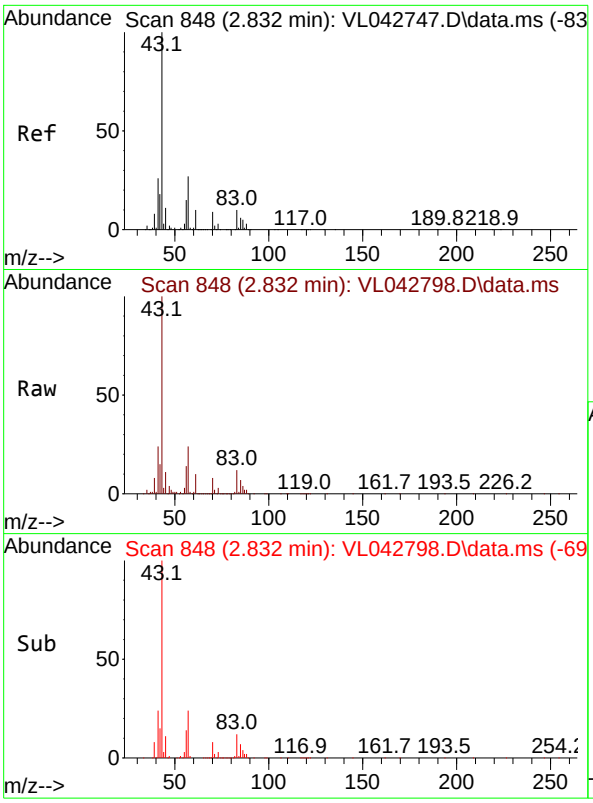


#24
1,1-Dichloroethane
Concen: 10.252 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 63 Resp: 162025

Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.5	7.4
100	3.1	1.6	4.8



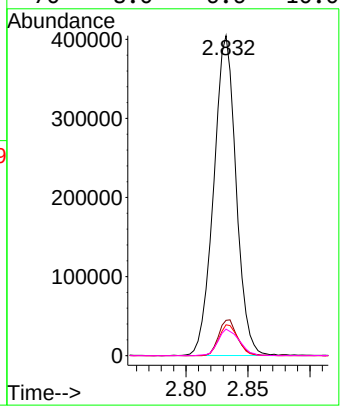


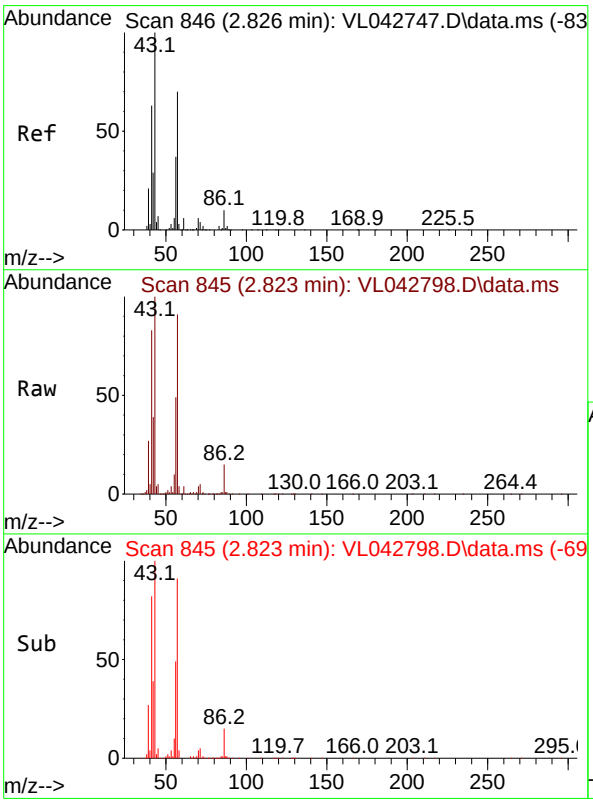
#25
Ethyl Acetate
Concen: 10.908 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 43 Resp: 509939

Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	8.4	6.7	10.1
70	8.0	6.6	10.0

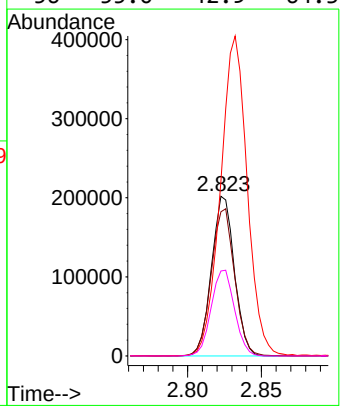


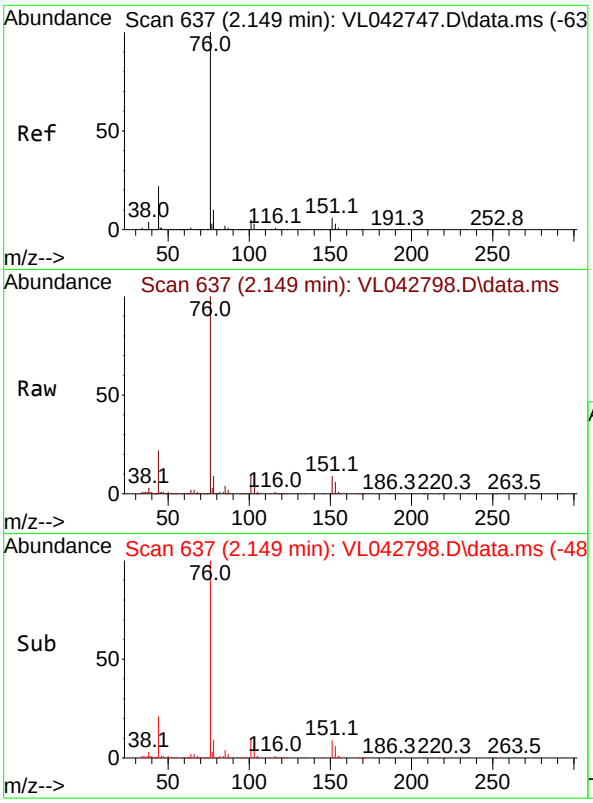


#26
Hexane
Concen: 10.603 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 57 Resp: 217430

Ion	Ratio	Lower	Upper
57	100		
41	94.8	75.4	113.2
43	235.5	185.0	277.6
56	55.0	42.9	64.3



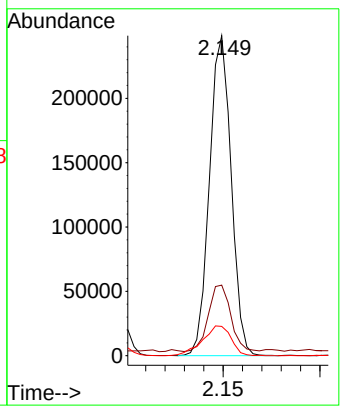


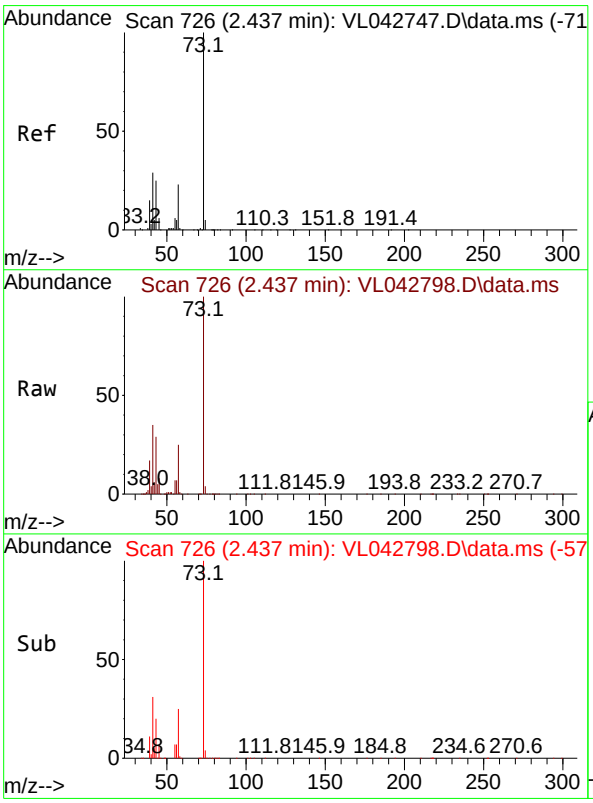
#27
Carbon Disulfide
Concen: 11.020 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 76 Resp: 193468

Ion	Ratio	Lower	Upper
76	100		
44	24.3	19.3	28.9
78	12.3	9.9	14.9

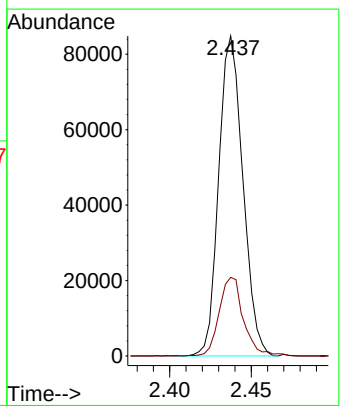


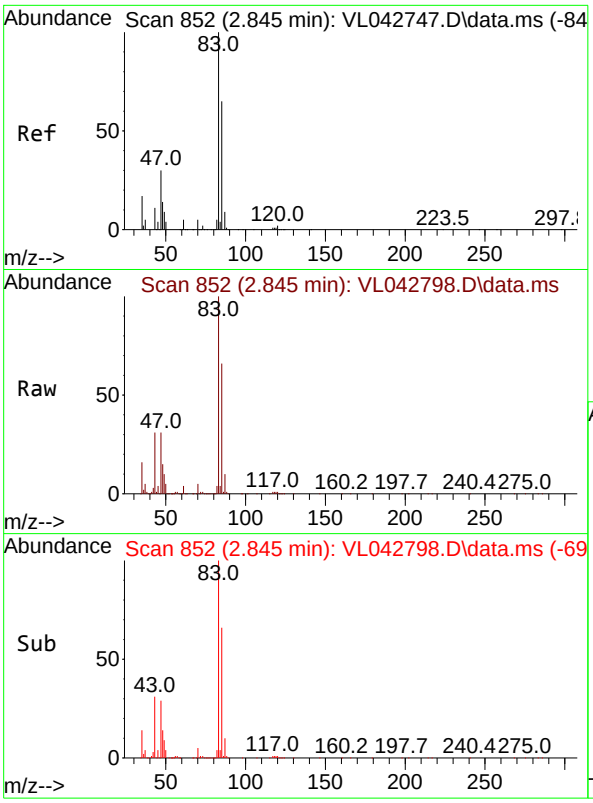


#28
Methyl tert-Butyl Ether
Concen: 9.013 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 73 Resp: 87317

Ion	Ratio	Lower	Upper
73	100		
57	24.7	19.8	29.8



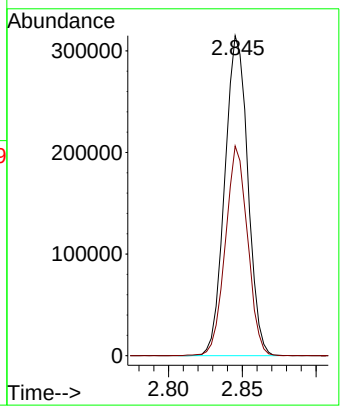


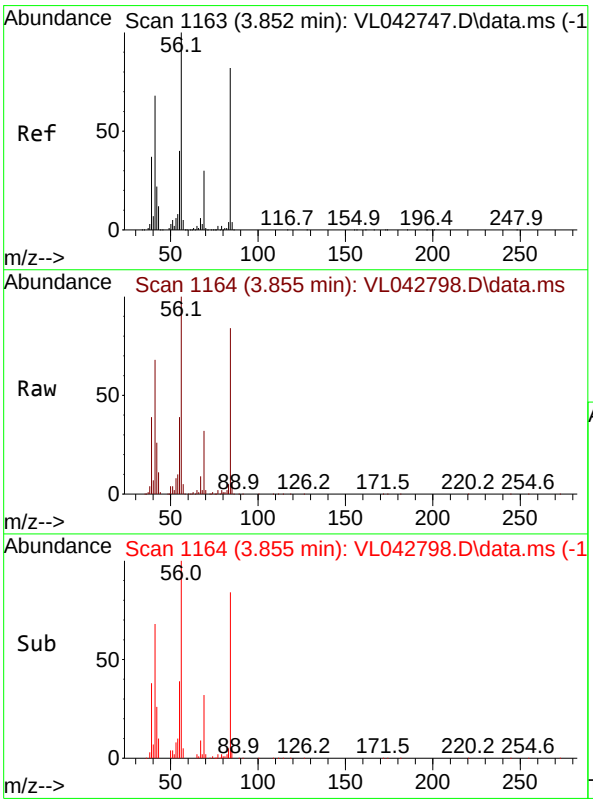
#29
Chloroform
Concen: 10.770 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 83 Resp: 341292

Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.2	78.2

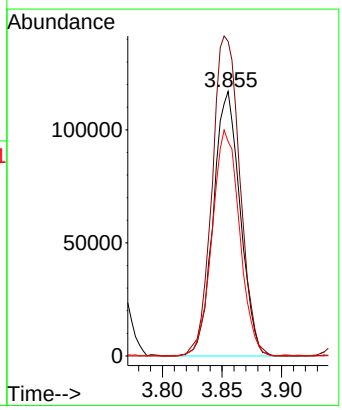


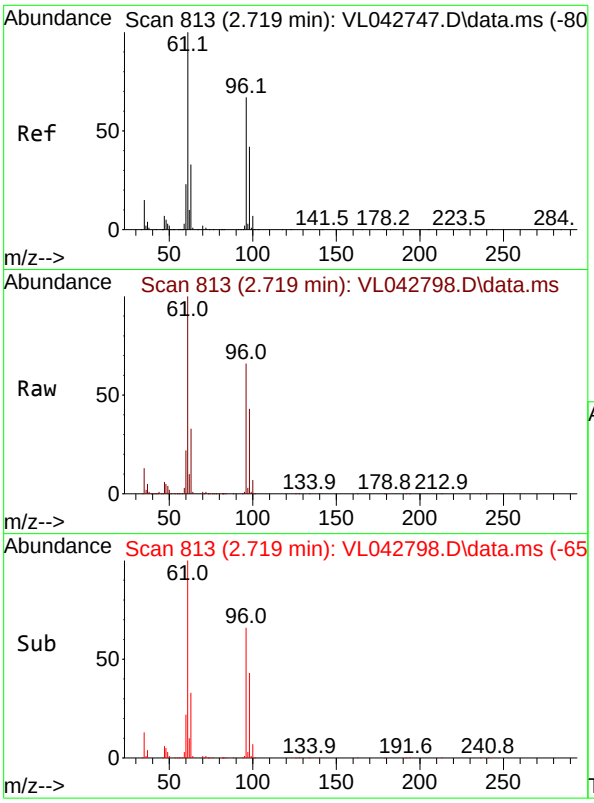


#30
Cyclohexane
Concen: 10.516 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 84 Resp: 182892

Ion	Ratio	Lower	Upper
84	100		
56	125.4	97.5	146.3
41	87.4	67.2	100.8



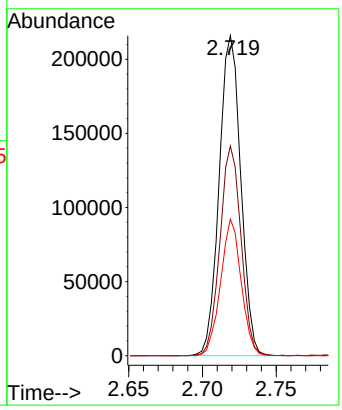


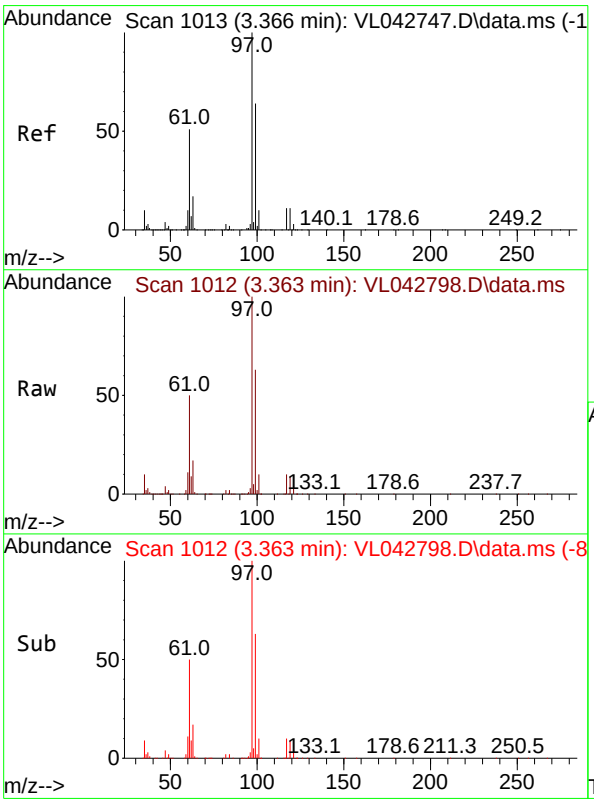
#31
cis-1,2-Dichloroethene
Concen: 10.456 ppbv
RT: 2.719 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 61 Resp: 220340

Ion	Ratio	Lower	Upper
61	100		
96	65.6	53.5	80.3
98	42.7	33.6	50.4

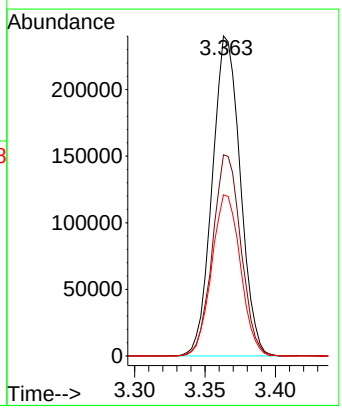


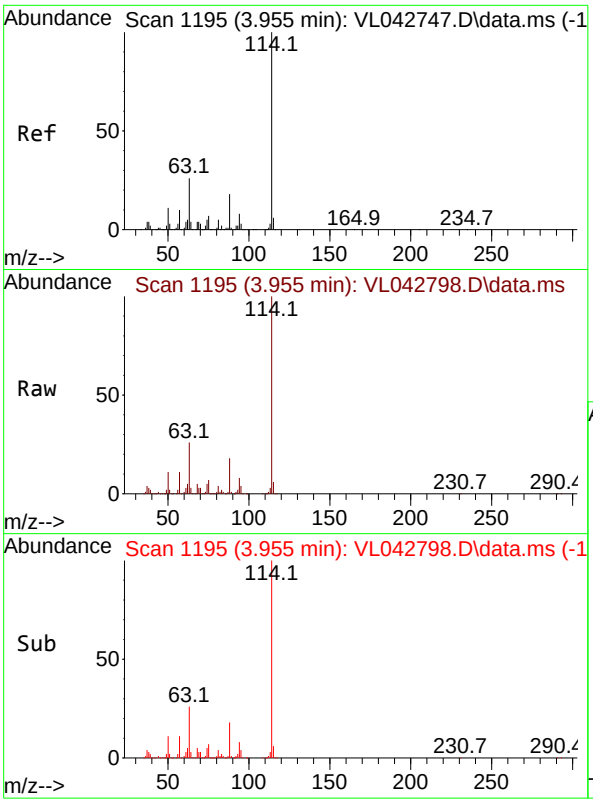


#32
1,1,1-Trichloroethane
Concen: 10.083 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 97 Resp: 332840

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.0	76.6
61	51.9	40.9	61.3



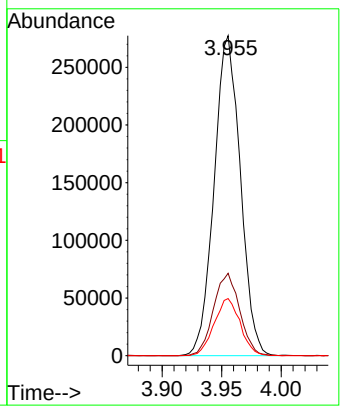


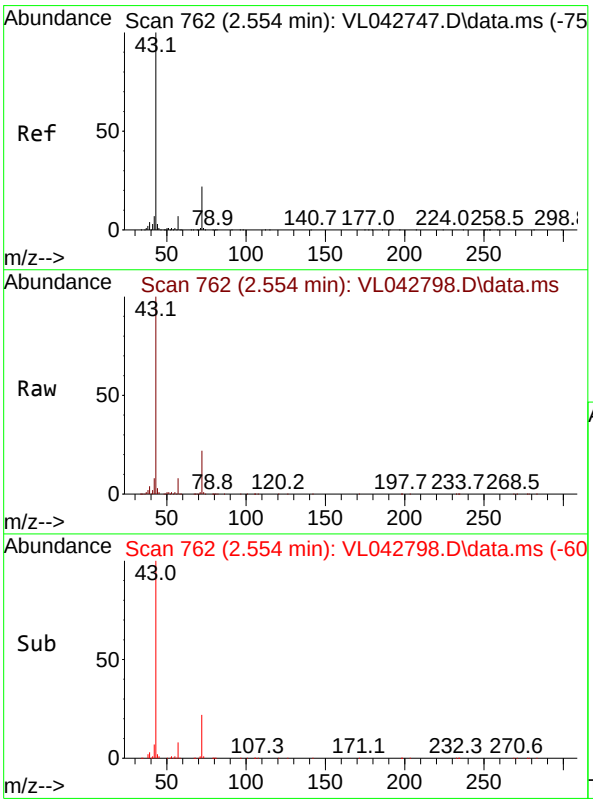
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:114 Resp: 424278

Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.5	30.7
88	17.7	14.0	21.0

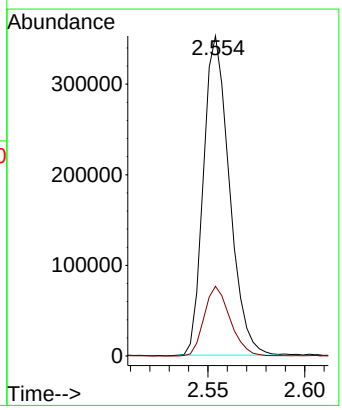


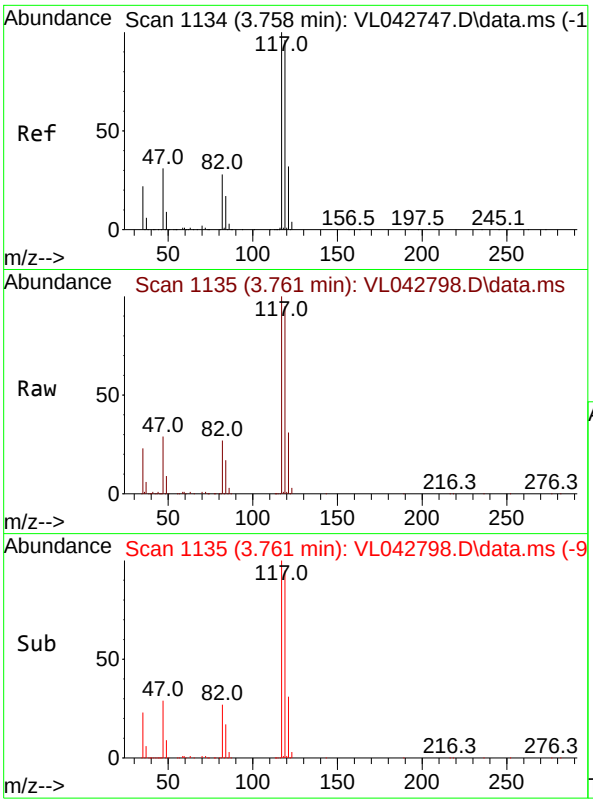


#34
2-Butanone
Concen: 10.922 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 43 Resp: 328262

Ion	Ratio	Lower	Upper
43	100		
72	22.0	17.4	26.0



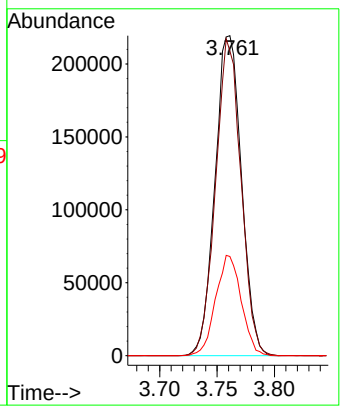


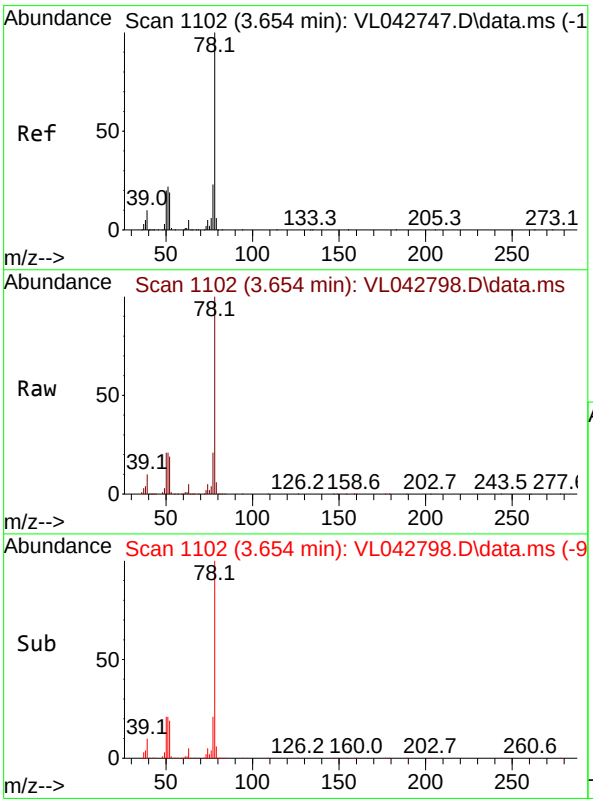
#35
Carbon Tetrachloride
Concen: 11.173 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:117 Resp: 352113

Ion	Ratio	Lower	Upper
117	100		
119	95.2	77.1	115.7
121	31.0	25.5	38.3

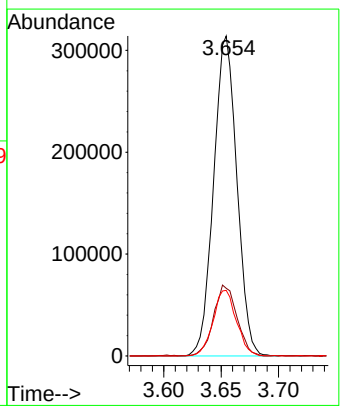


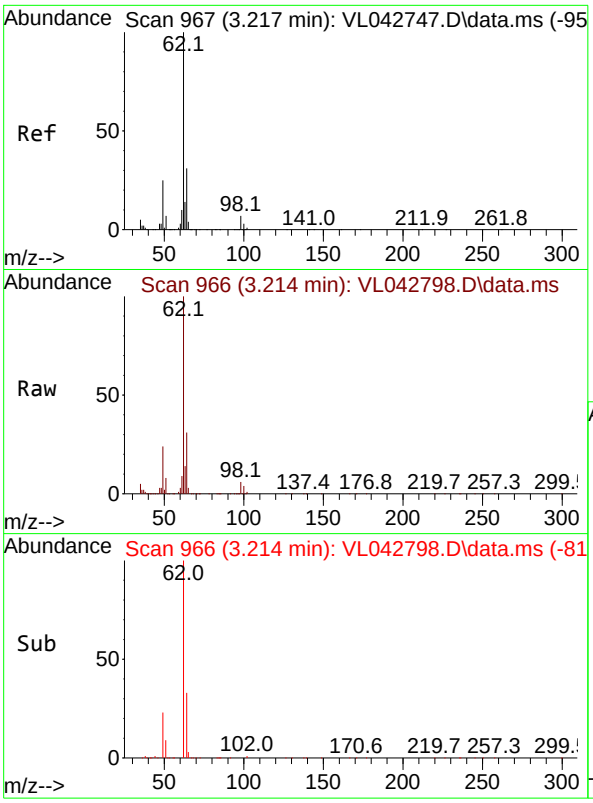


#36
Benzene
Concen: 11.012 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 78 Resp: 442780

Ion	Ratio	Lower	Upper
78	100		
77	21.1	18.5	27.7
50	20.5	16.2	24.2



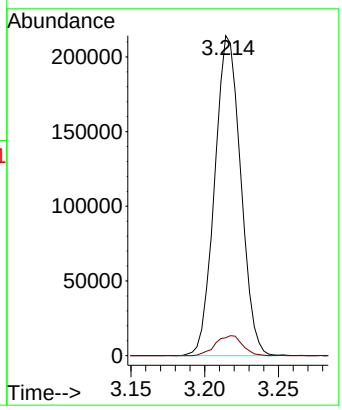


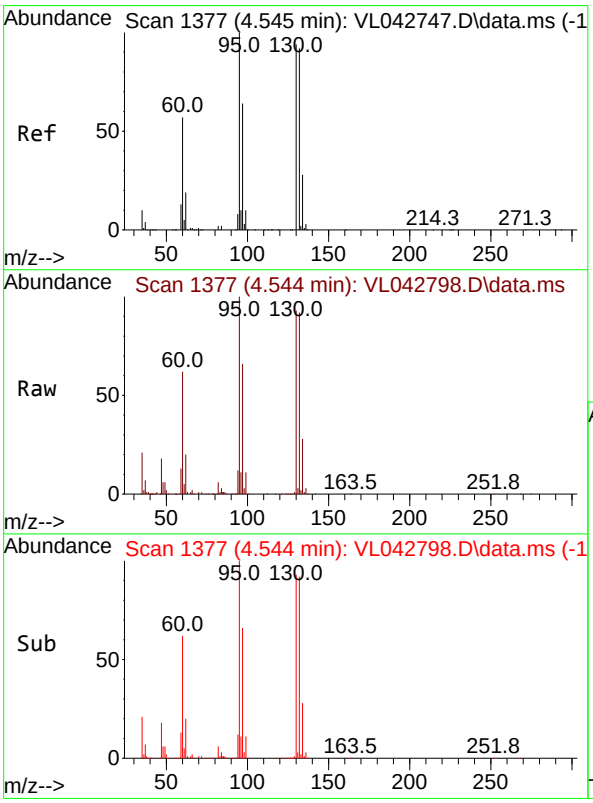
#37
1,2-Dichloroethane
Concen: 10.867 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 62 Resp: 263215

Ion	Ratio	Lower	Upper
62	100		
98	6.5	5.2	7.8

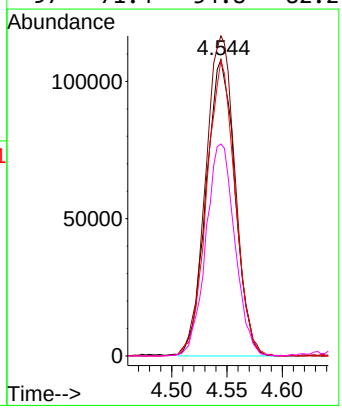


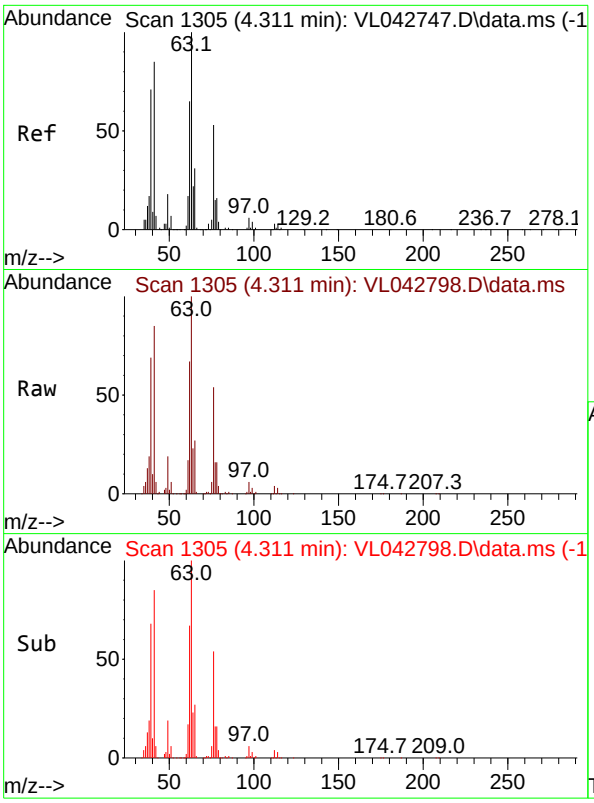


#38
Trichloroethene
Concen: 10.162 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:130 Resp: 196304

Ion	Ratio	Lower	Upper
130	100		
95	107.8	85.4	128.2
132	99.7	78.2	117.2
97	71.4	54.8	82.2



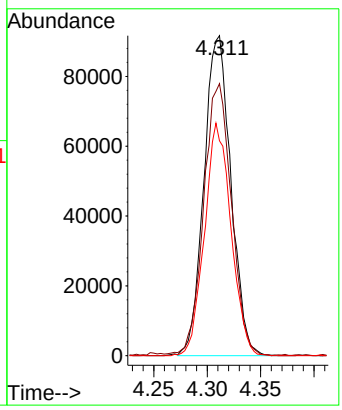


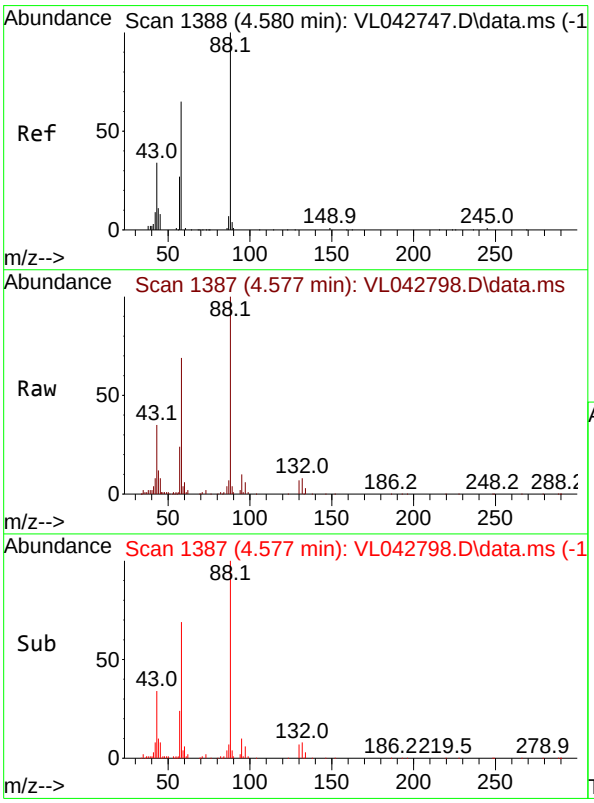
#39
1,2-Dichloropropane
Concen: 10.820 ppbv
RT: 4.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 63 Resp: 160594

Ion	Ratio	Lower	Upper
63	100		
41	84.7	68.2	102.4
62	67.1	52.0	78.0

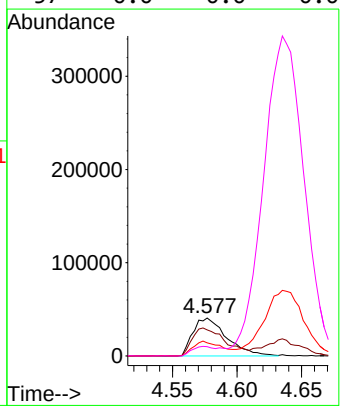


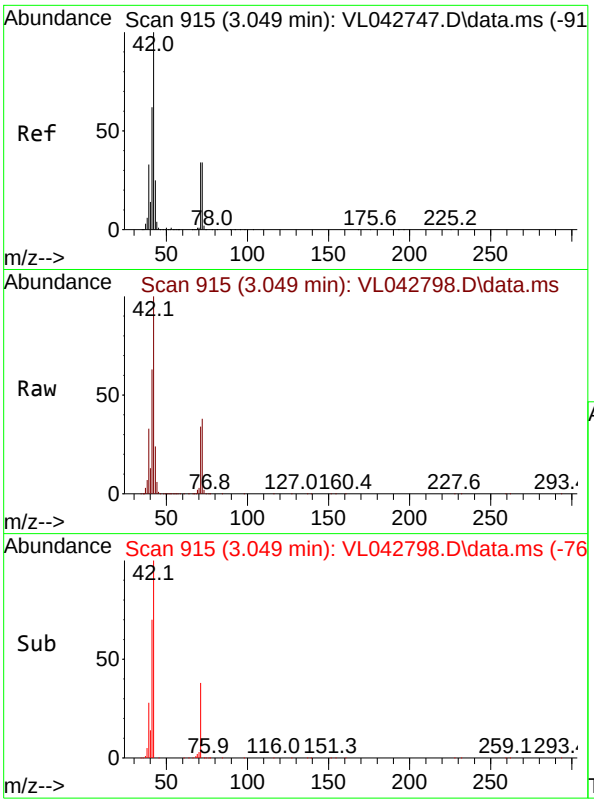


#40
1,4-Dioxane
Concen: 10.699 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 88 Resp: 74021

Ion	Ratio	Lower	Upper
88	100		
58	71.4	58.8	88.2
43	32.6	28.9	43.3
57	0.0	0.0	0.0



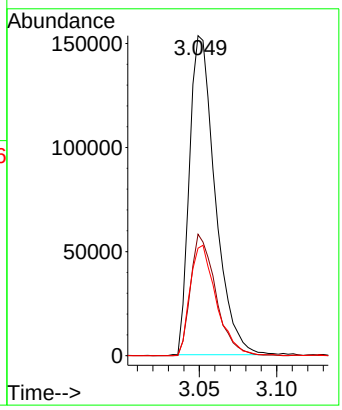


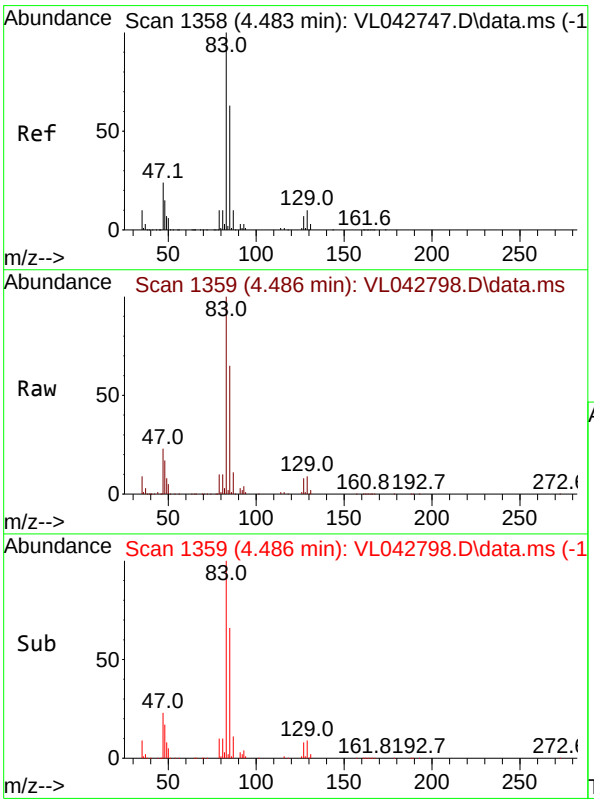
#41
Tetrahydrofuran
Concen: 11.586 ppbv
RT: 3.049 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 42 Resp: 177182

Ion	Ratio	Lower	Upper
42	100		
72	37.2	30.9	46.3
71	35.7	28.6	43.0

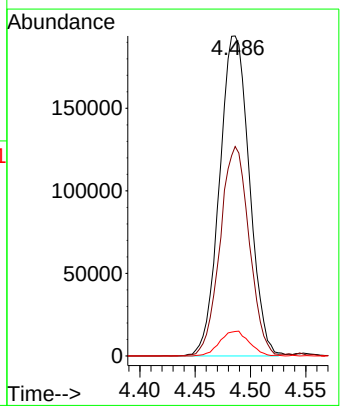


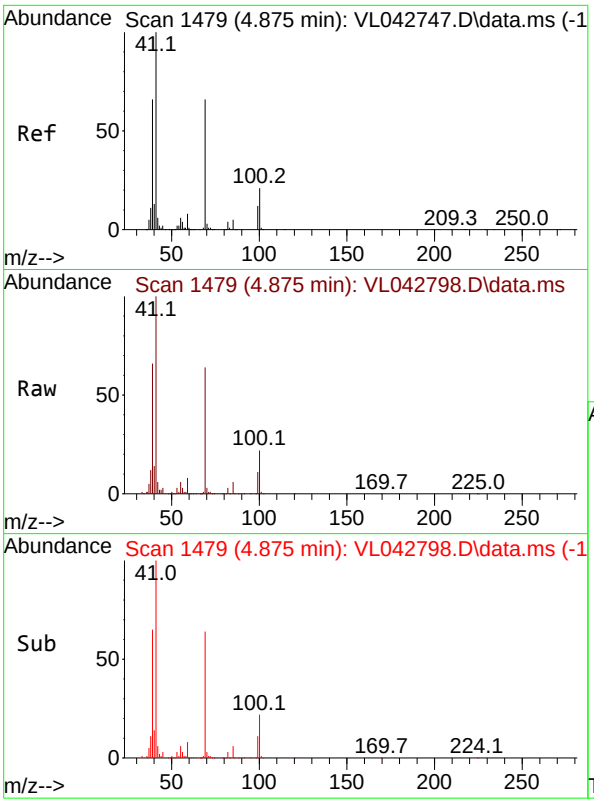


#42
Bromodichloromethane
Concen: 11.524 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 83 Resp: 363538

Ion	Ratio	Lower	Upper
83	100		
85	65.4	50.2	75.4
127	7.7	5.4	8.2



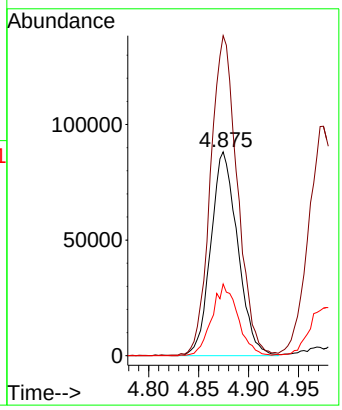


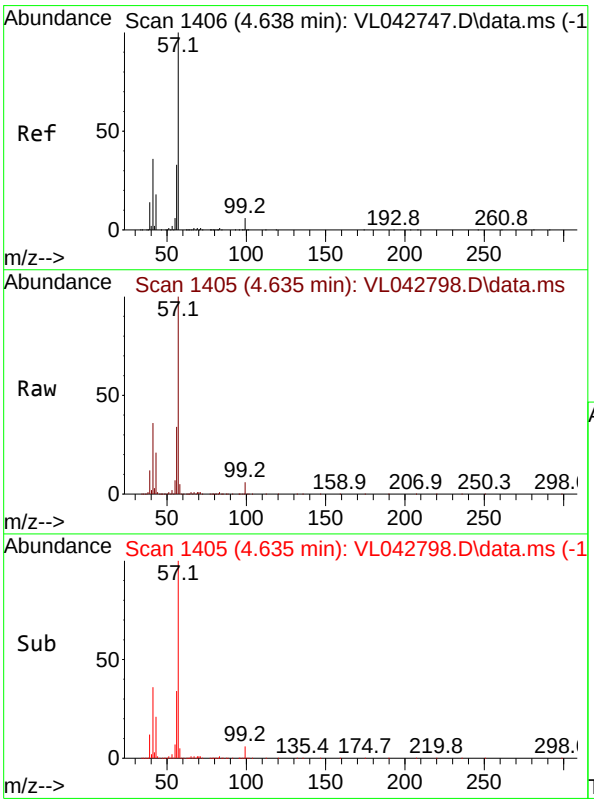
#43
Methyl Methacrylate
Concen: 11.536 ppbv
RT: 4.875 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 69 Resp: 164875

Ion	Ratio	Lower	Upper
69	100		
41	157.6	125.7	188.5
100	33.9	28.6	42.8

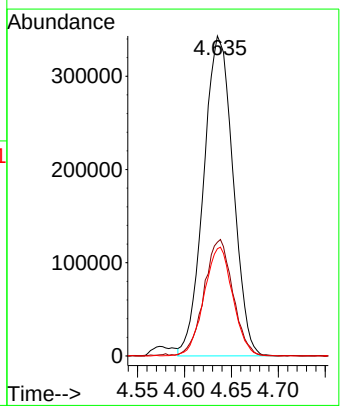


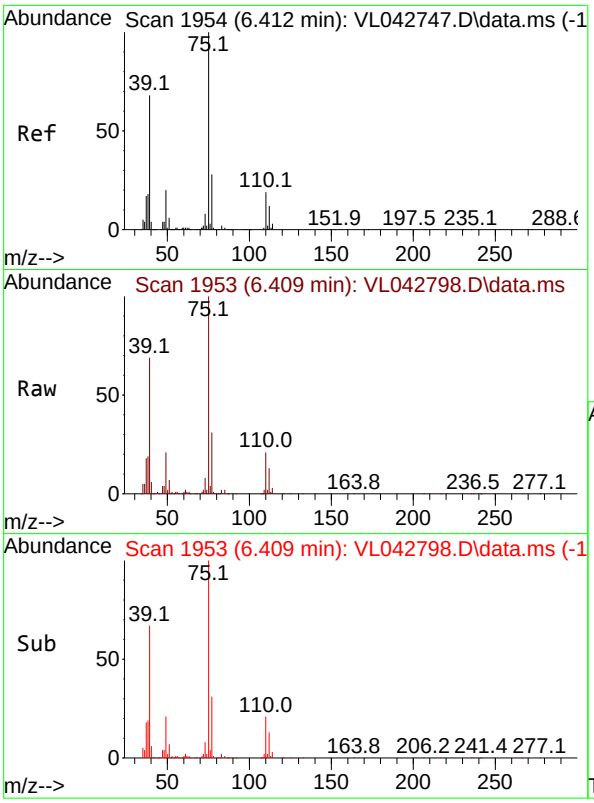


#44
2,2,4-Trimethylpentane
Concen: 11.408 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 57 Resp: 747668

Ion	Ratio	Lower	Upper
57	100		
41	36.0	28.3	42.5
56	33.3	25.8	38.6



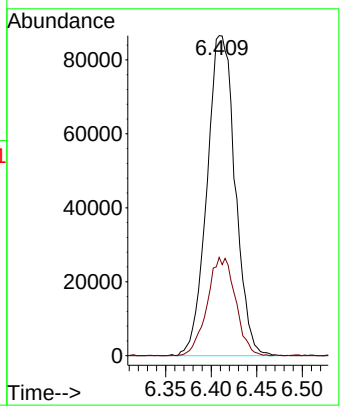


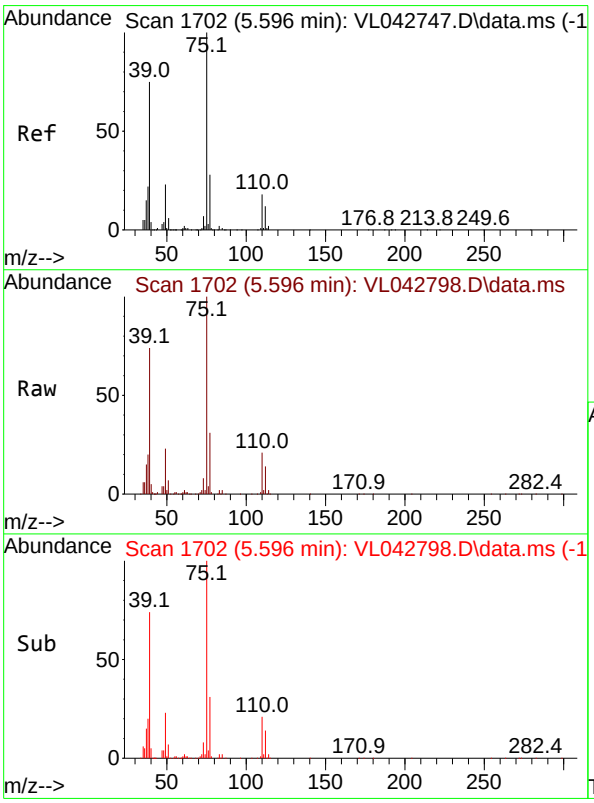
#45
t-1,3-Dichloropropene
Concen: 11.617 ppbv
RT: 6.409 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 75 Resp: 186189

Ion	Ratio	Lower	Upper
75	100		
77	30.7	22.4	33.6

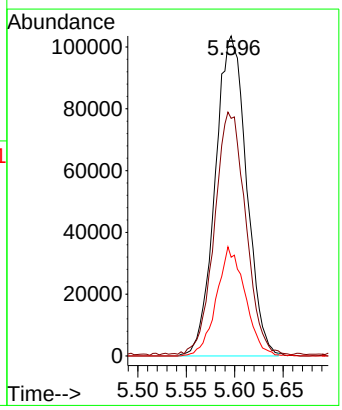


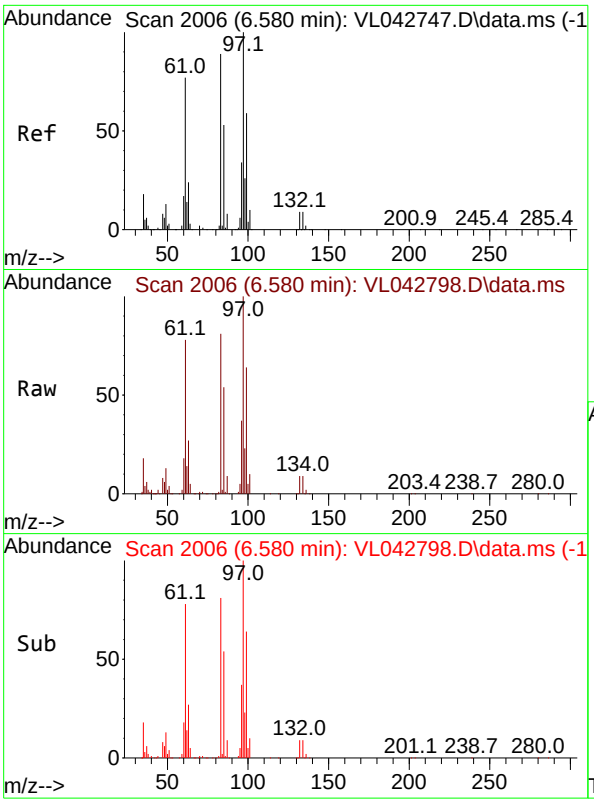


#46
cis-1,3-Dichloropropene
Concen: 11.503 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 75 Resp: 233634

Ion	Ratio	Lower	Upper
75	100		
39	73.7	60.2	90.2
77	30.8	22.6	34.0



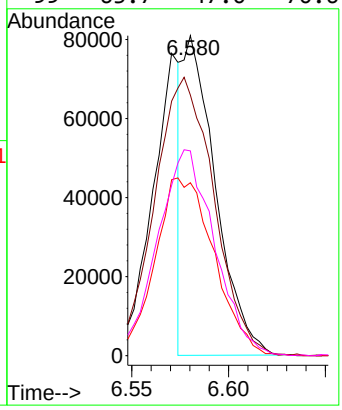


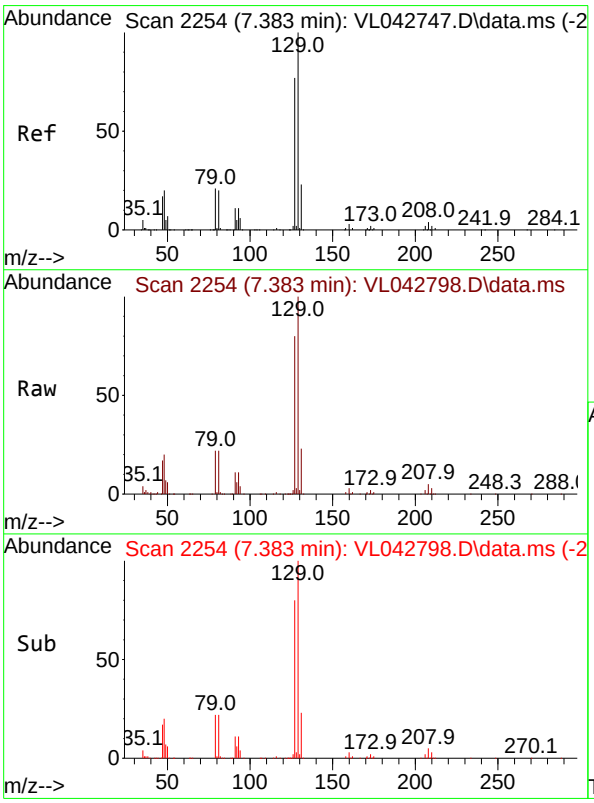
#47
1,1,2-Trichloroethane
Concen: 6.050 ppbv
RT: 6.580 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 97 Resp: 95724

Ion	Ratio	Lower	Upper
97	100		
83	81.1	71.1	106.7
85	53.9	43.0	64.4
99	63.7	47.0	70.6

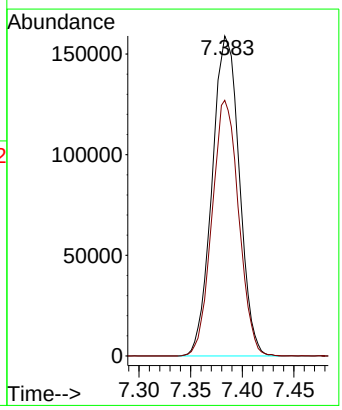


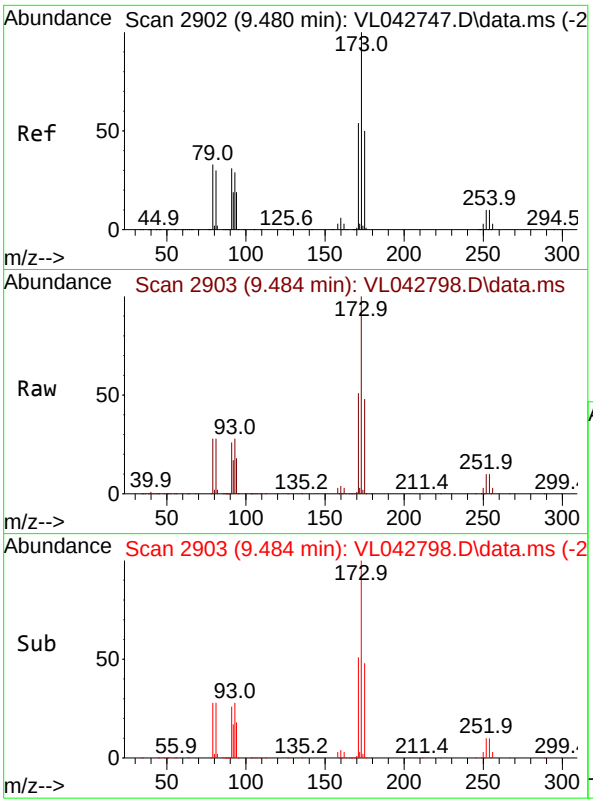


#48
Dibromochloromethane
Concen: 11.619 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:129 Resp: 291861

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.7	116.1



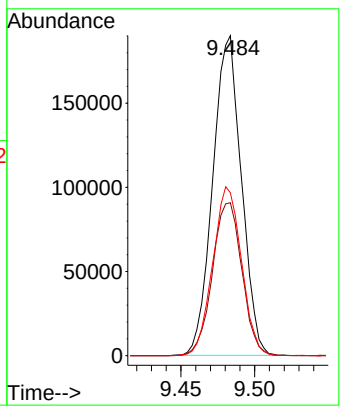


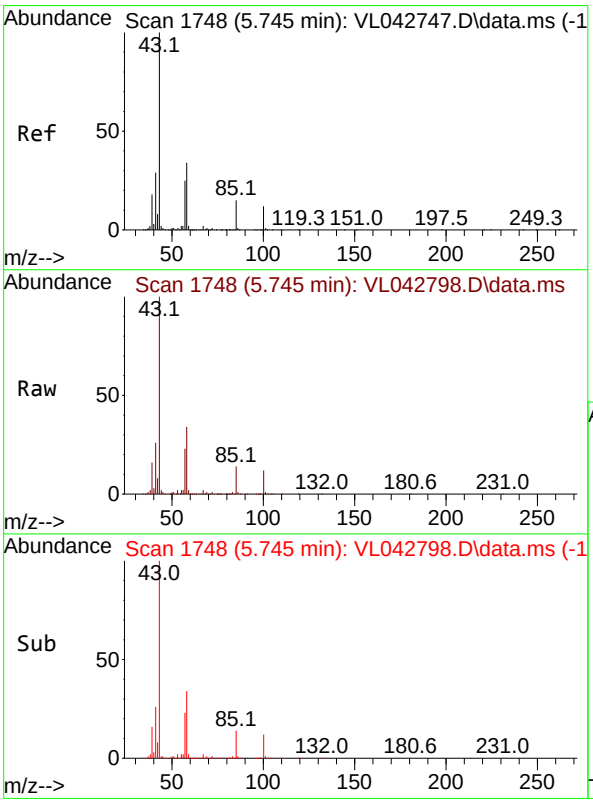
#49
Bromoform
Concen: 11.698 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:173 Resp: 256208

Ion	Ratio	Lower	Upper
173	100		
175	49.4	38.4	57.6
171	53.1	40.9	61.3

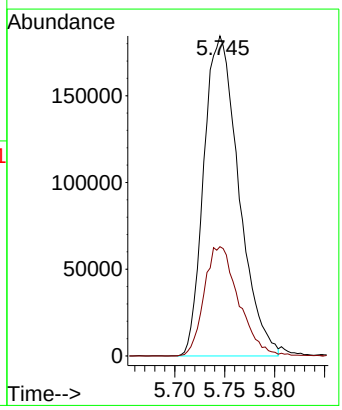


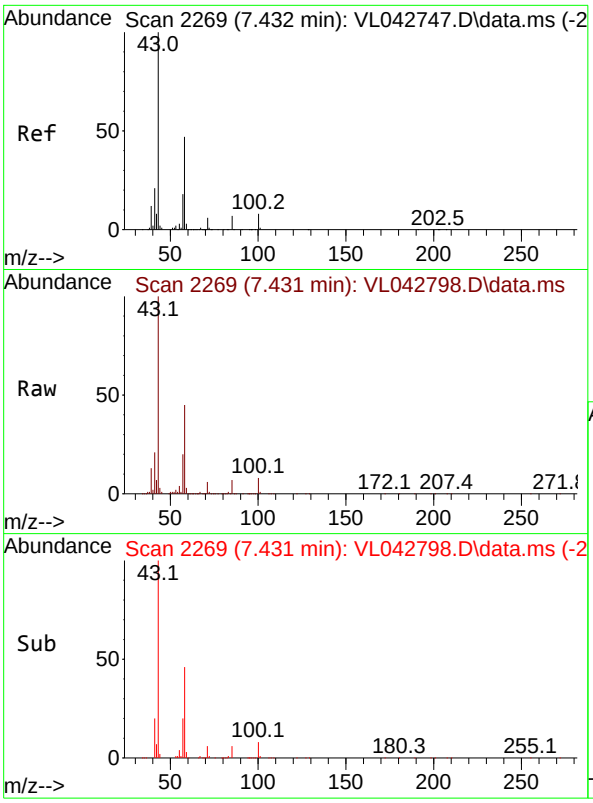


#50
4-Methyl-2-Pentanone
Concen: 11.601 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 43 Resp: 449115

Ion	Ratio	Lower	Upper
43	100		
58	33.8	27.8	41.8



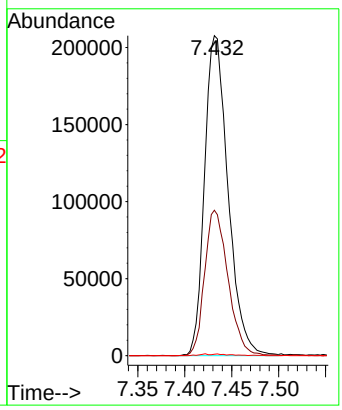


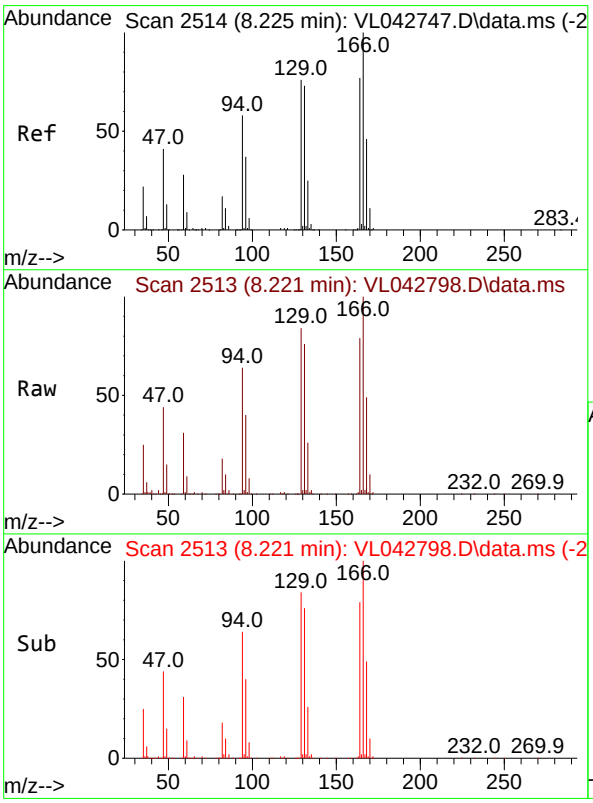
#51
2-Hexanone
Concen: 12.346 ppbv
RT: 7.431 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 43 Resp: 361190

Ion	Ratio	Lower	Upper
43	100		
58	45.5	38.0	57.0
98	0.7	0.2	0.4#

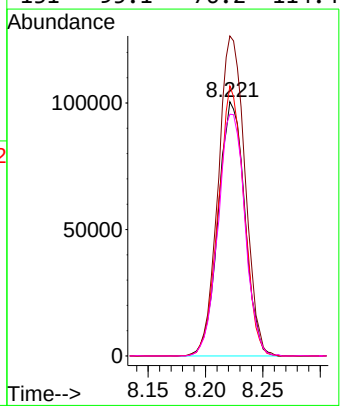


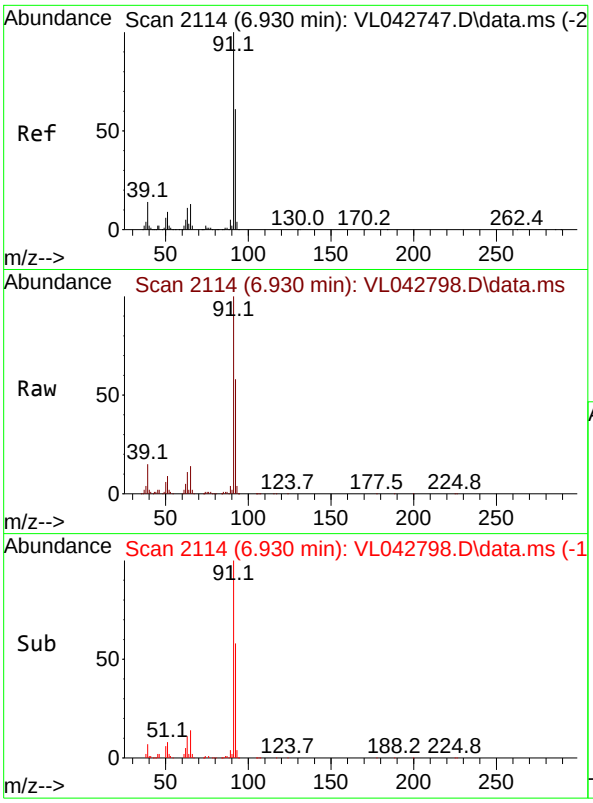


#52
Tetrachloroethene
Concen: 9.700 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:164 Resp: 161678

Ion	Ratio	Lower	Upper
164	100		
166	125.9	104.0	156.0
129	106.2	79.2	118.8
131	95.1	76.2	114.4



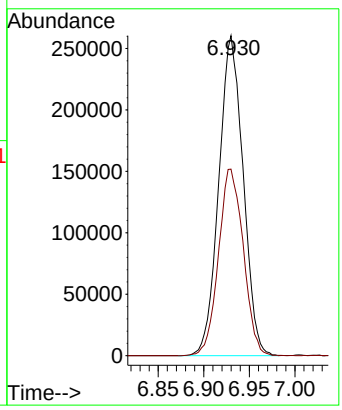


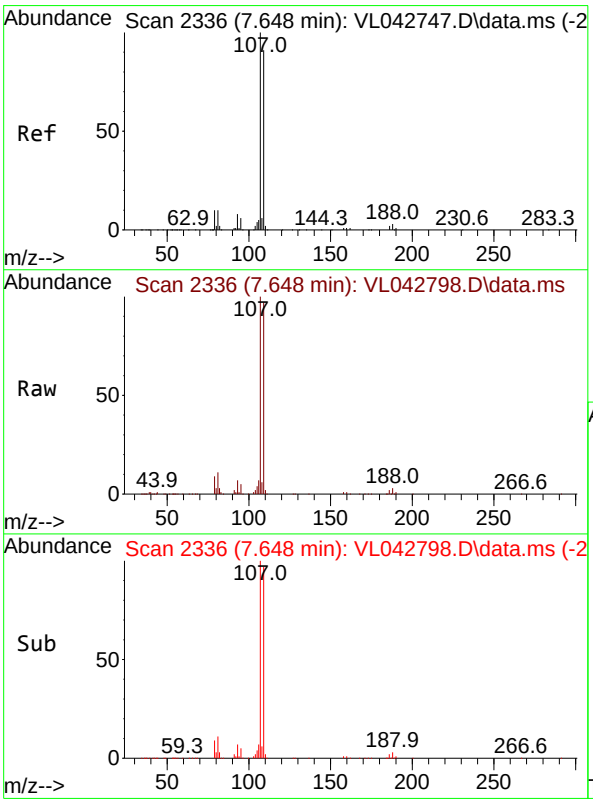
#53
Toluene
Concen: 11.202 ppbv
RT: 6.930 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 91 Resp: 483690

Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.0	72.0

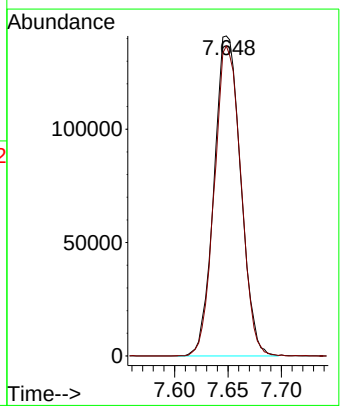


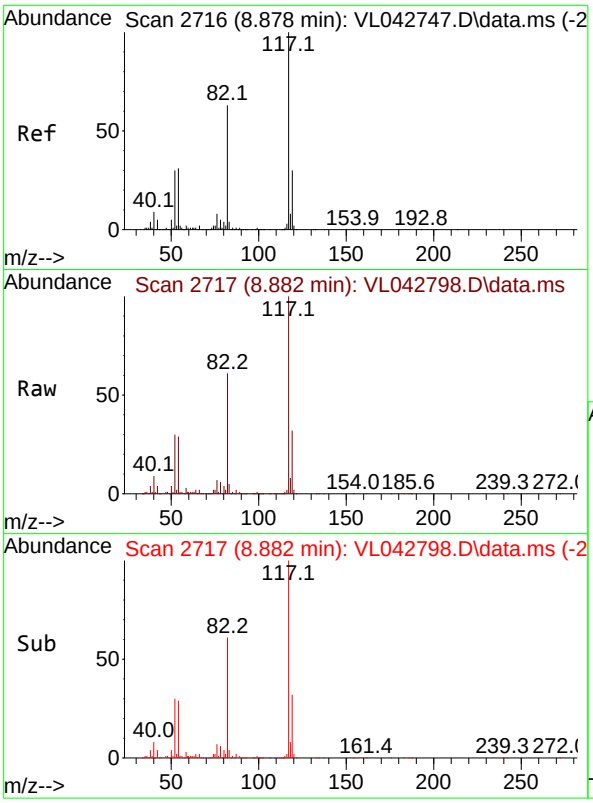


#54
1,2-Dibromoethane
Concen: 10.964 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:107 Resp: 245100

Ion	Ratio	Lower	Upper
107	100		
109	96.8	72.7	109.1



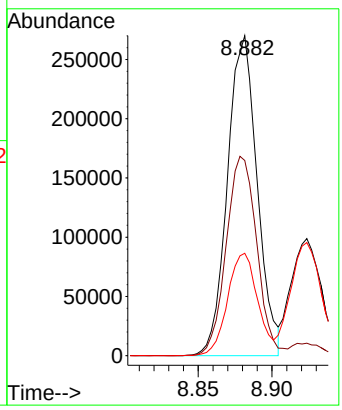


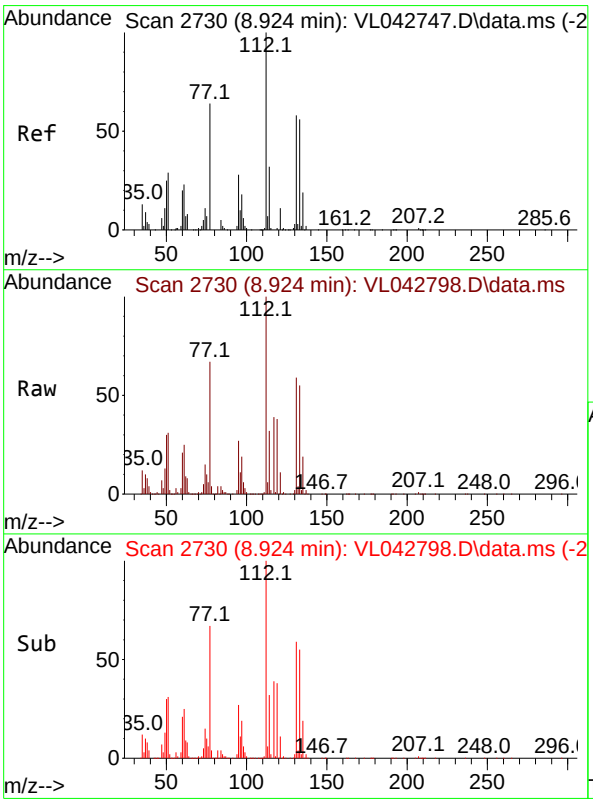
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:117 Resp: 379714

Ion	Ratio	Lower	Upper
117	100		
82	68.0	53.3	79.9
119	32.3	25.8	38.6

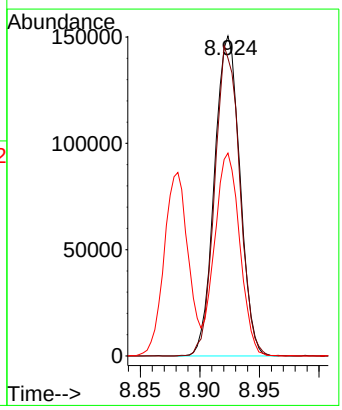


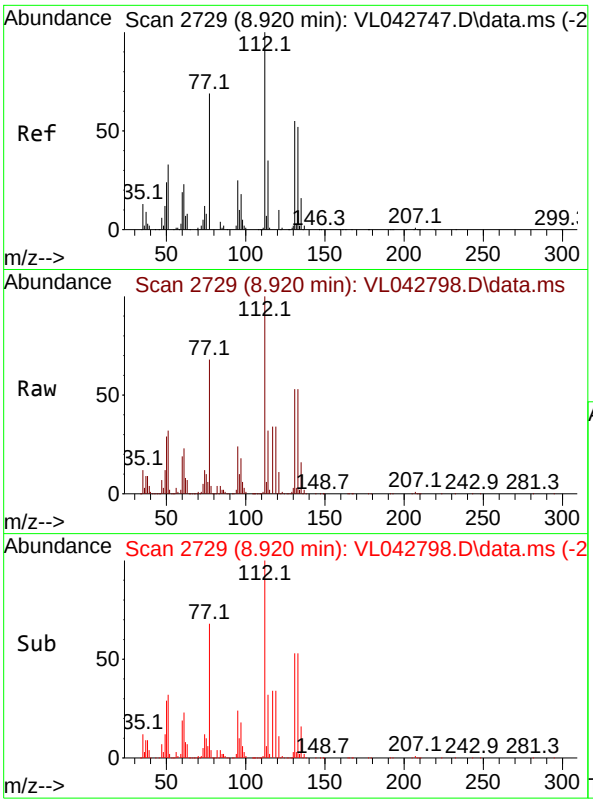


#56
1,1,1,2-Tetrachloroethane
Concen: 11.301 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:131 Resp: 223105

Ion	Ratio	Lower	Upper
131	100		
133	95.3	76.8	115.2
119	62.6	49.7	74.5



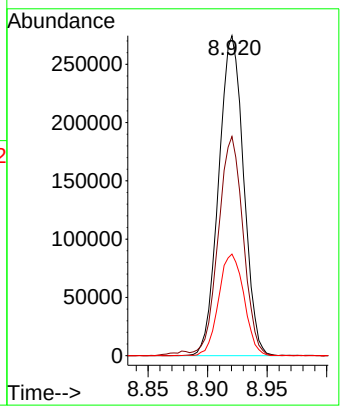


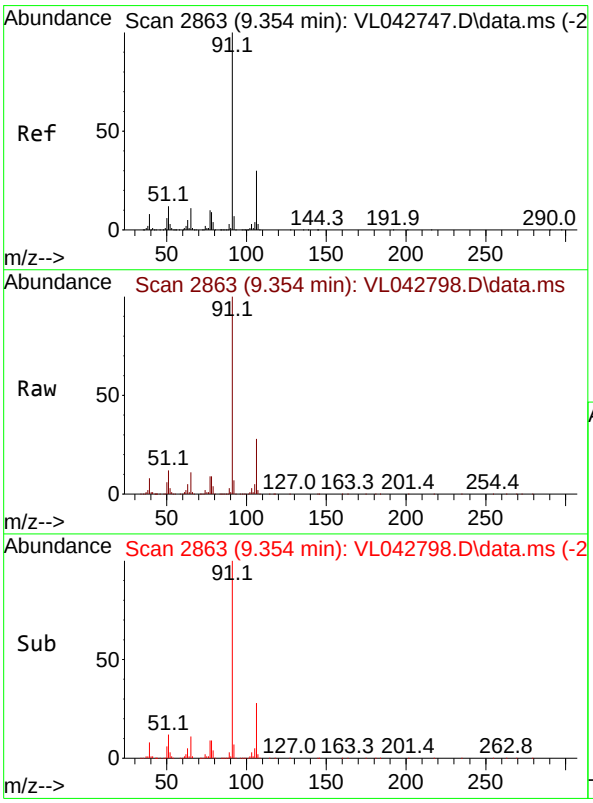
#57
Chlorobenzene
Concen: 10.865 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:112 Resp: 399269

Ion	Ratio	Lower	Upper
112	100		
77	68.4	56.4	84.6
114	31.7	31.2	38.2

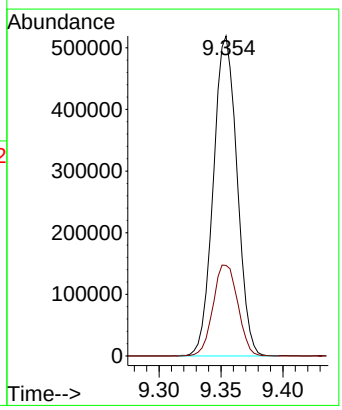


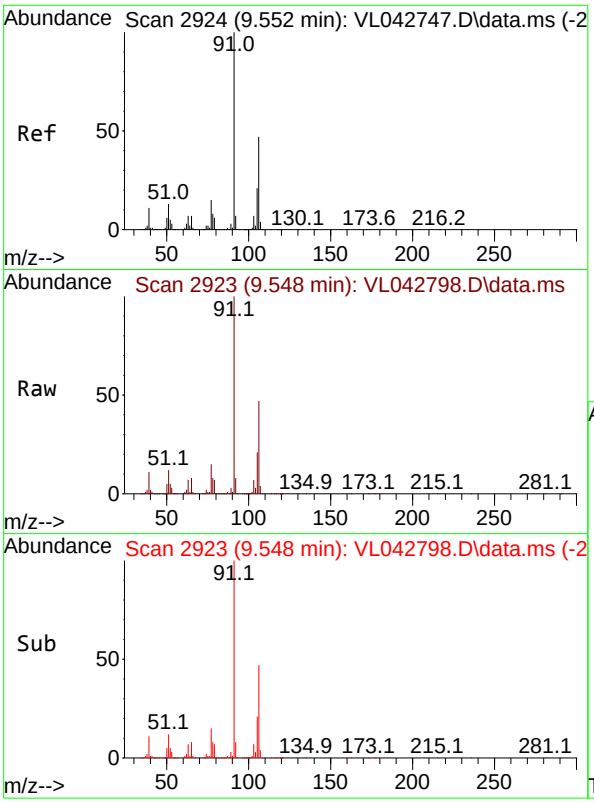


#58
Ethyl Benzene
Concen: 11.537 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 91 Resp: 691812

Ion	Ratio	Lower	Upper
91	100		
106	28.3	23.8	35.6



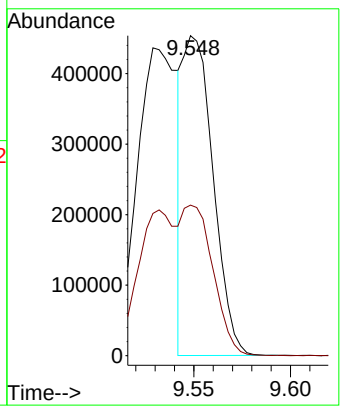


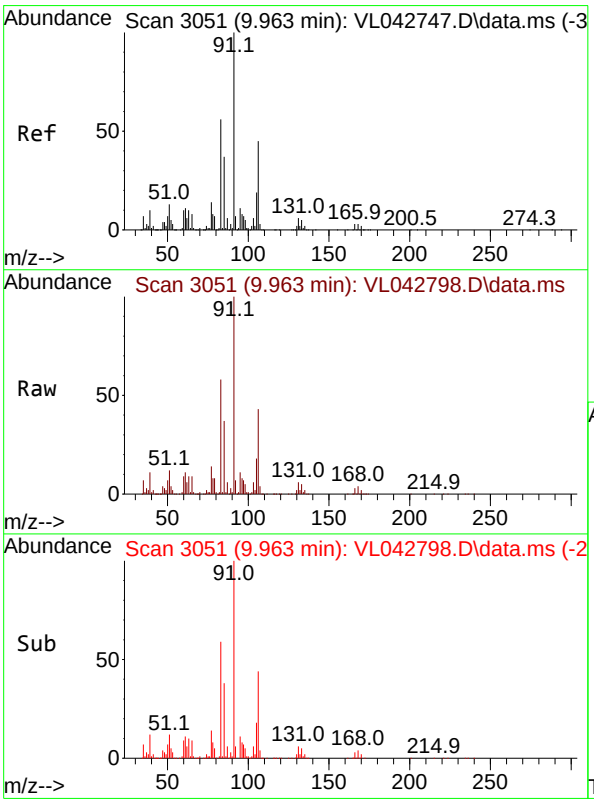
#59
m/p-Xylene
Concen: 10.285 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 91 Resp: 492902

Ion	Ratio	Lower	Upper
91	100		
106	106.6	37.4	56.2#

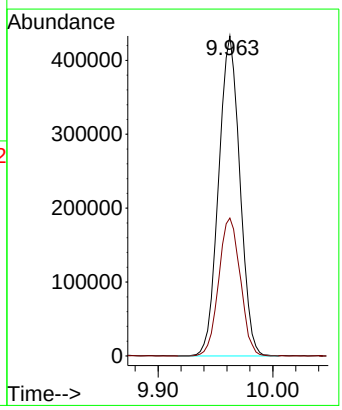


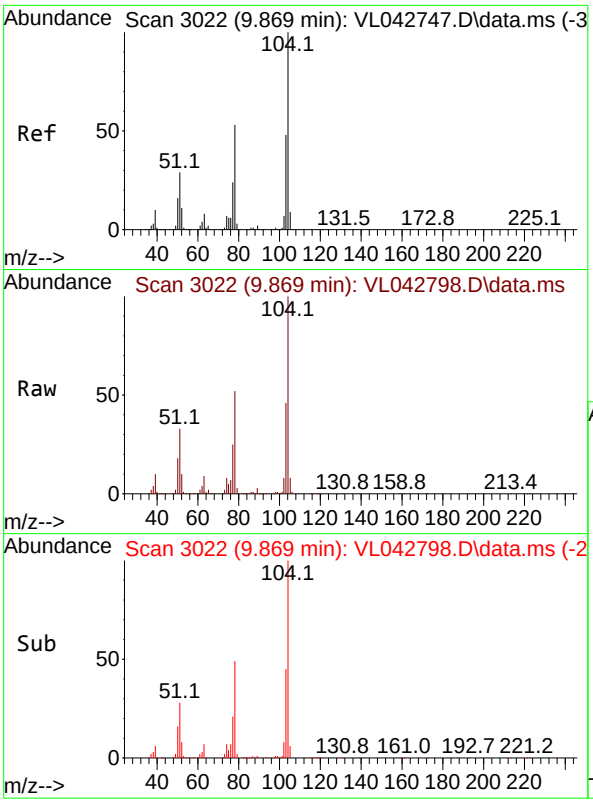


#60
o-Xylene
Concen: 11.631 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 91 Resp: 556987

Ion	Ratio	Lower	Upper
91	100		
106	43.8	22.0	66.0



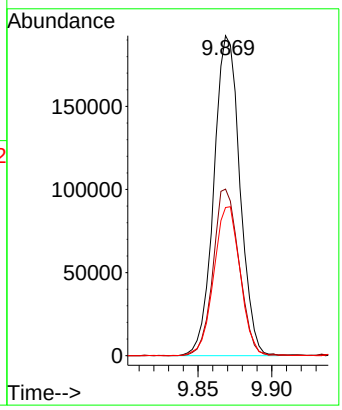


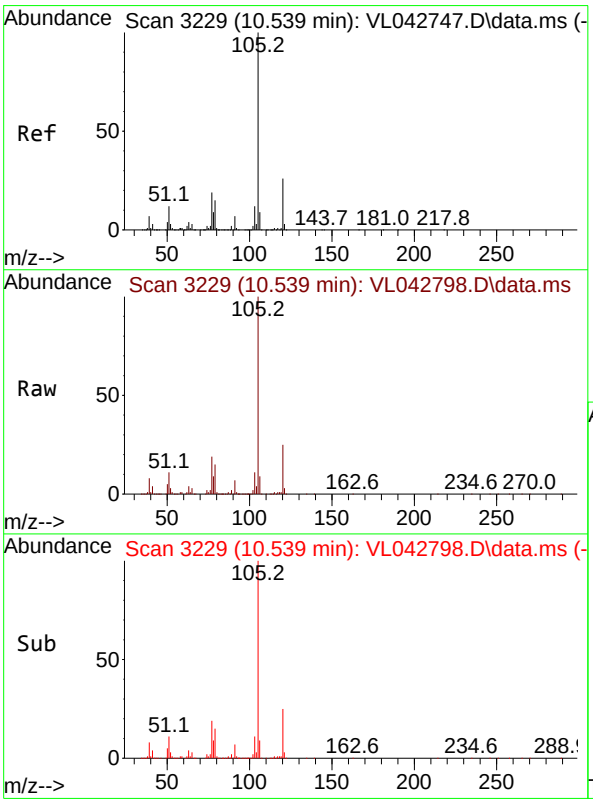
#61
Styrene
Concen: 11.739 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:104 Resp: 236466

Ion	Ratio	Lower	Upper
104	100		
78	52.0	41.5	62.3
103	47.5	37.5	56.3

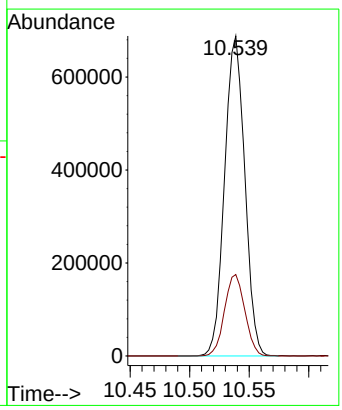


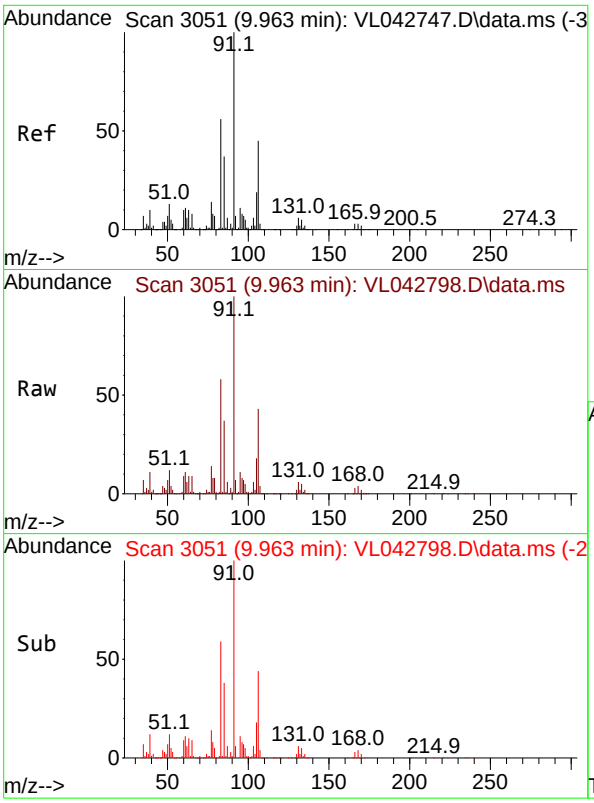


#62
Isopropylbenzene
Concen: 11.469 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:105 Resp: 810117

Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.5	30.7



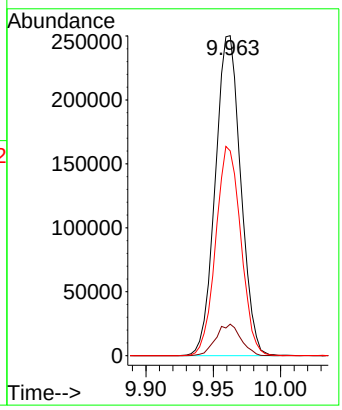


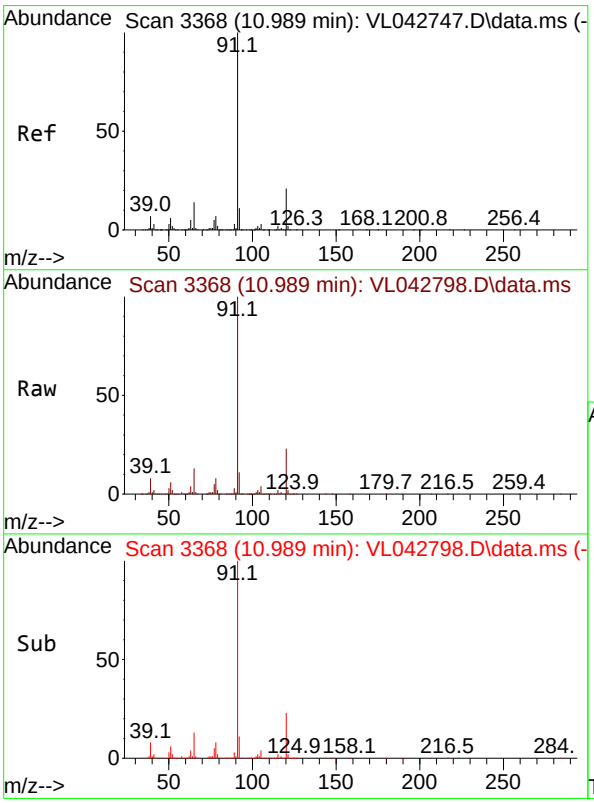
#63
1,1,2,2-Tetrachloroethane
Concen: 10.693 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 83 Resp: 328751

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	15.0
85	64.6	32.6	97.7

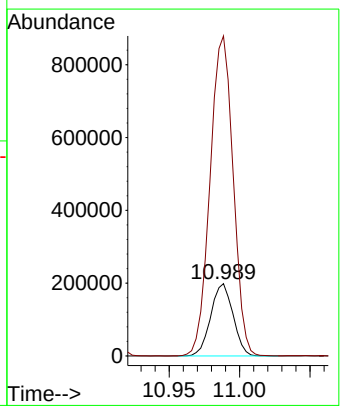


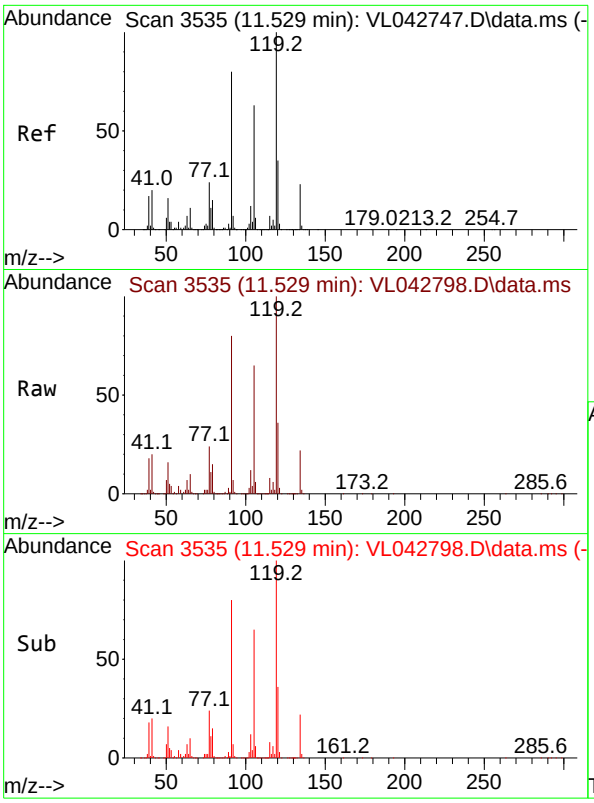


#64
n-propylbenzene
Concen: 11.857 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:120 Resp: 218340

Ion	Ratio	Lower	Upper
120	100		
91	459.6	372.7	559.1



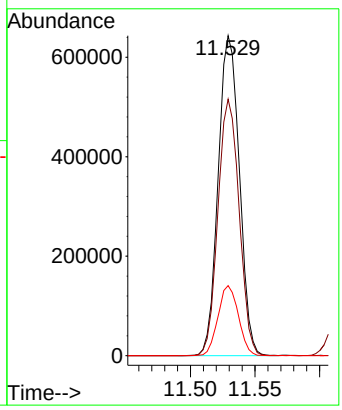


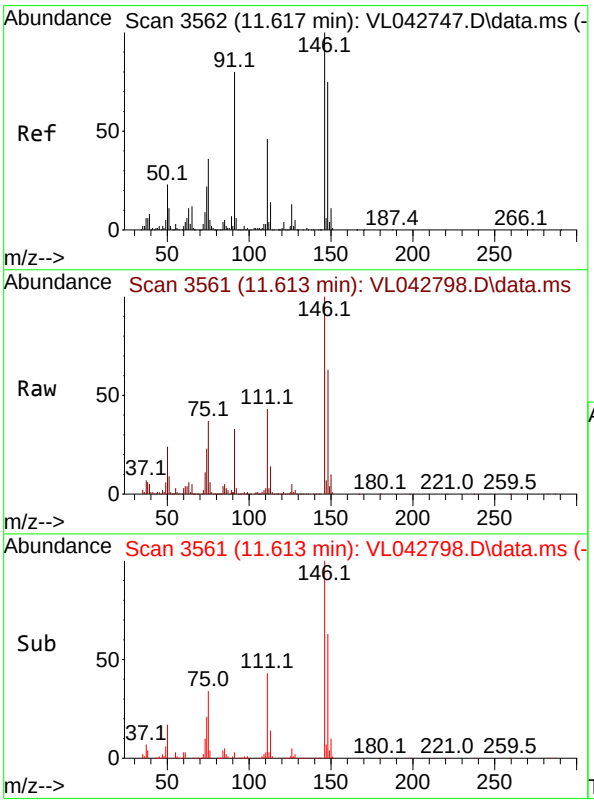
#65
tert-Butylbenzene
Concen: 11.686 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:119 Resp: 733198

Ion	Ratio	Lower	Upper
119	100		
91	80.1	64.0	96.0
134	21.1	17.3	25.9

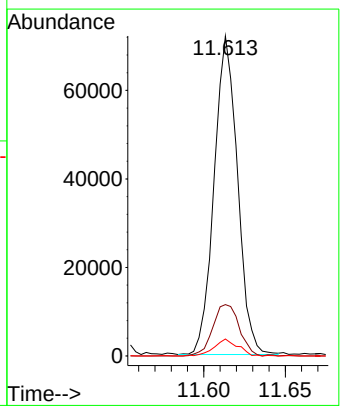


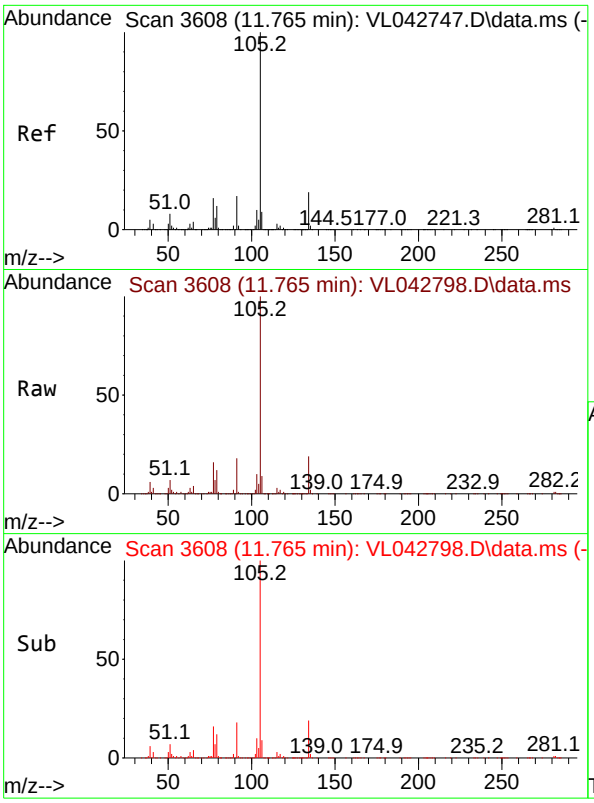


#66
Benzyl Chloride
Concen: 13.938 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 91 Resp: 71791

Ion	Ratio	Lower	Upper
91	100		
126	18.4	14.4	21.6
128	5.5	5.2	7.8



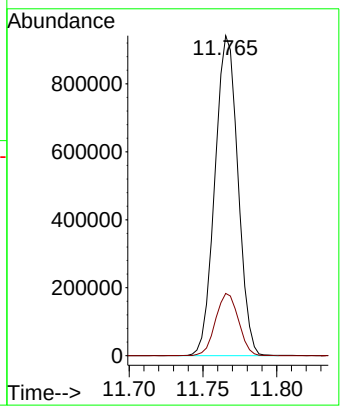


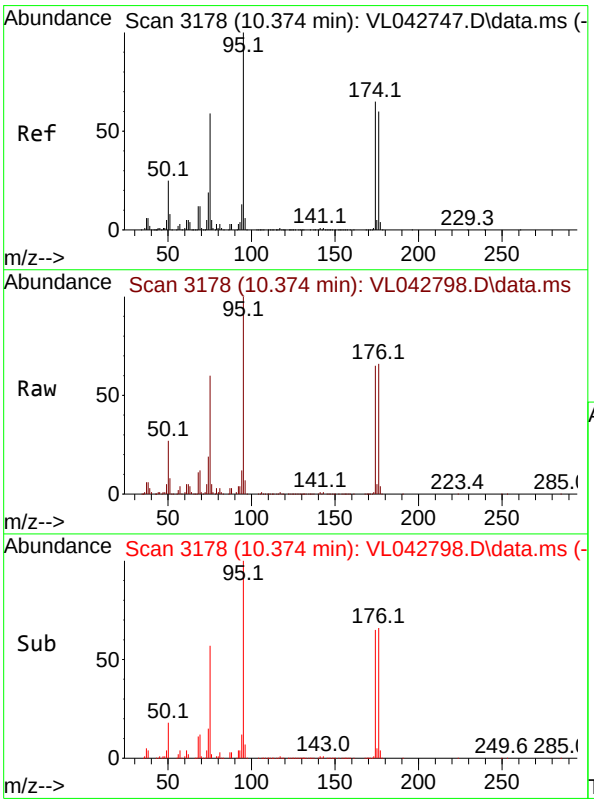
#67
sec-Butylbenzene
Concen: 11.457 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:105 Resp: 1022370

Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.5	23.3

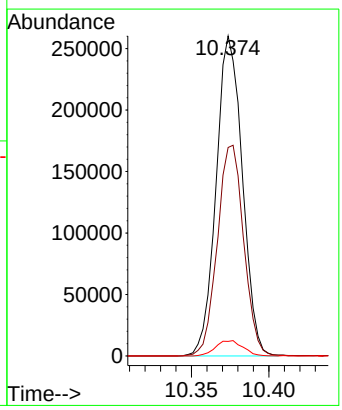


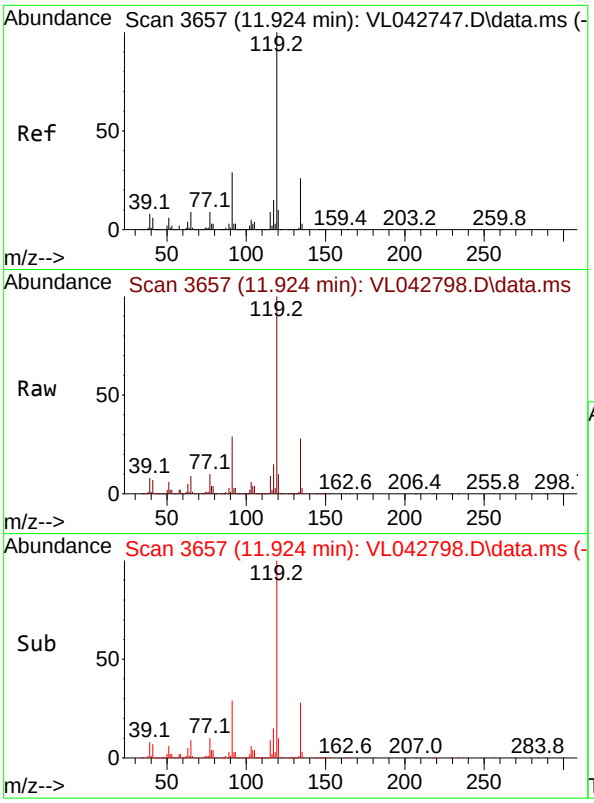


#68
1-Bromo-4-Fluorobenzene
Concen: 10.187 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 95 Resp: 306318

Ion	Ratio	Lower	Upper
95	100		
174	66.5	53.8	80.6
175	5.1	4.0	6.0



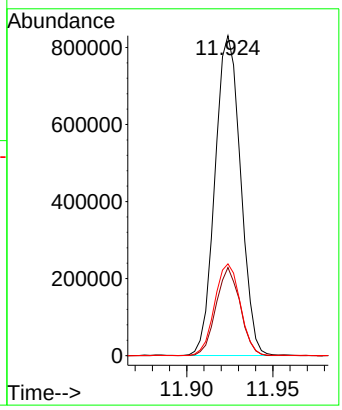


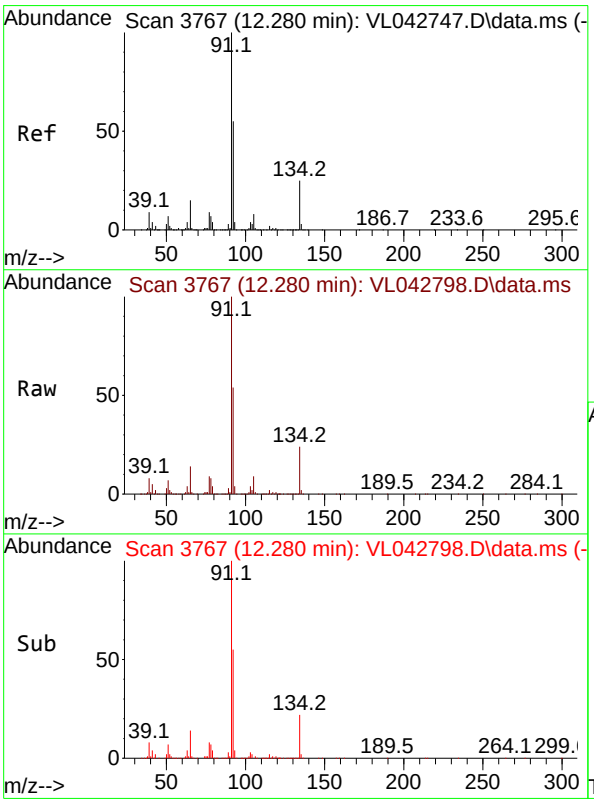
#69
p-Isopropyltoluene
Concen: 11.810 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:119 Resp: 859339

Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.6	31.0
91	29.0	23.2	34.8

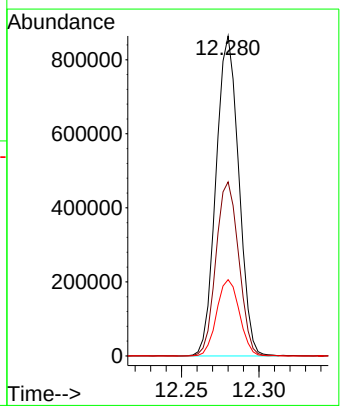


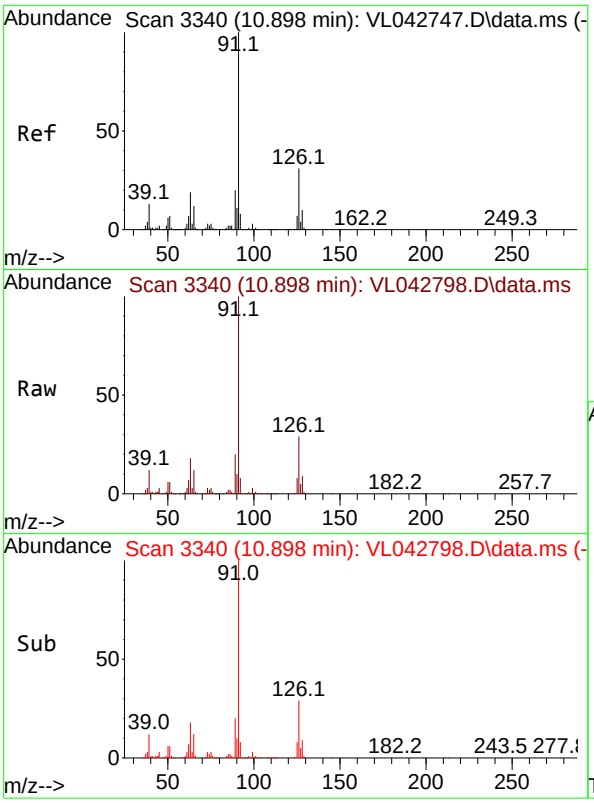


#70
n-Butylbenzene
Concen: 12.562 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion: 91 Resp: 882919

Ion	Ratio	Lower	Upper
91	100		
92	54.4	43.4	65.2
134	23.9	19.6	29.4



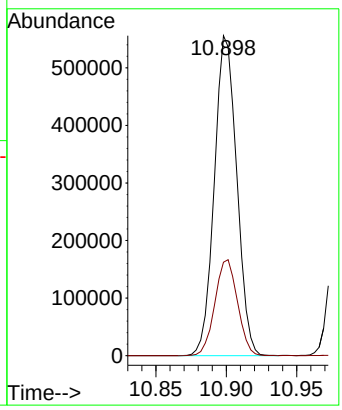


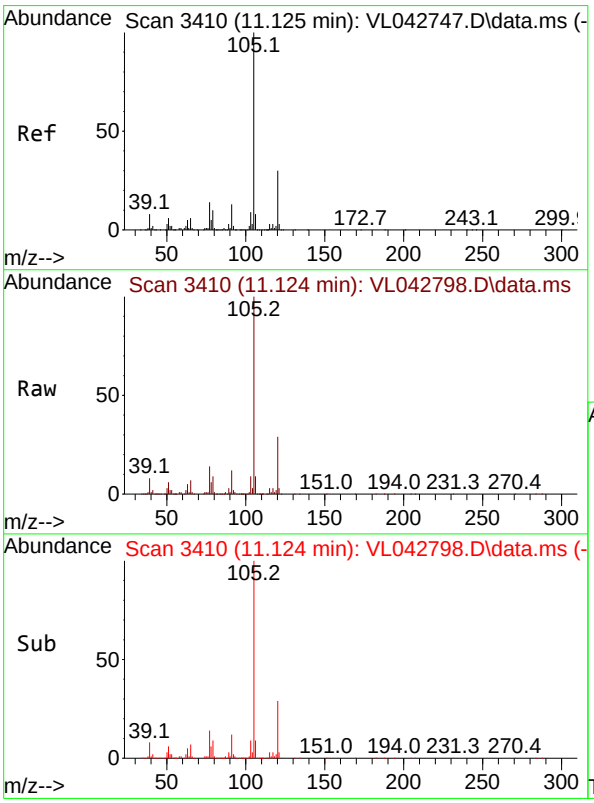
#71
2-Chlorotoluene
Concen: 11.381 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion: 91 Resp: 616427

Ion	Ratio	Lower	Upper
91	100		
126	30.3	12.0	48.2

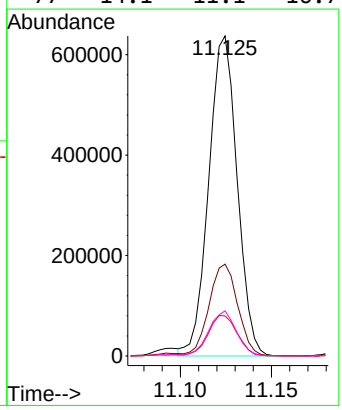


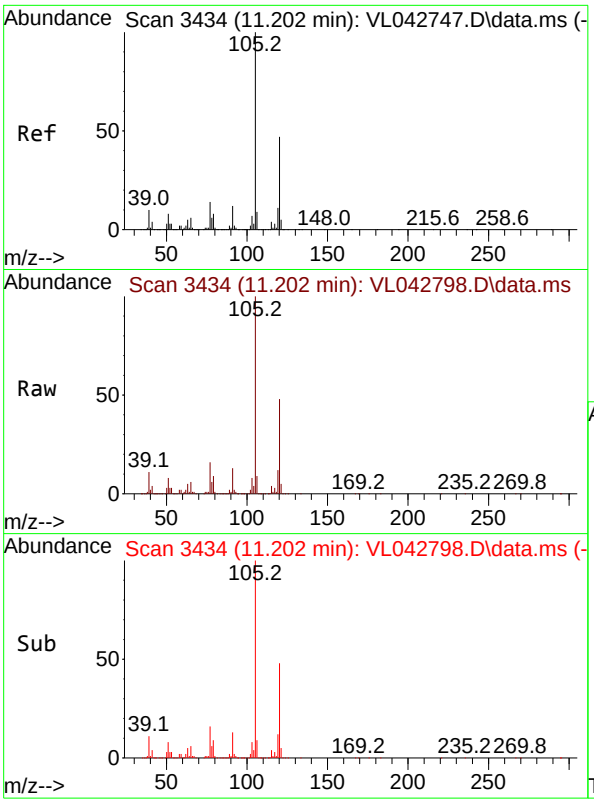


#72
4-Ethyltoluene
Concen: 12.083 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:105 Resp: 690989

Ion	Ratio	Lower	Upper
105	100		
120	29.7	24.4	36.6
91	13.3	10.6	15.8
77	14.1	11.1	16.7



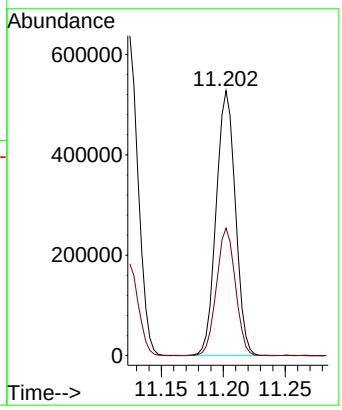


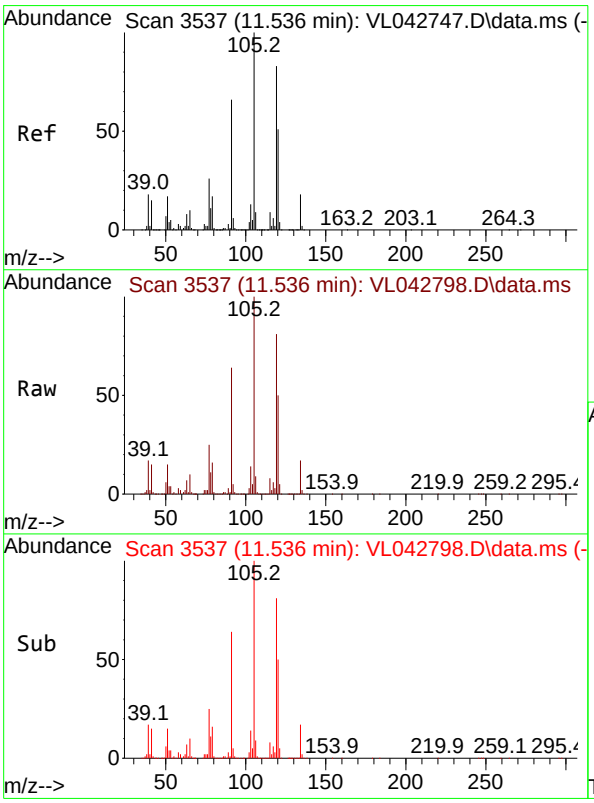
#73
1,3,5-Trimethylbenzene
Concen: 12.106 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:105 Resp: 570034

Ion	Ratio	Lower	Upper
105	100		
120	48.2	37.8	56.8

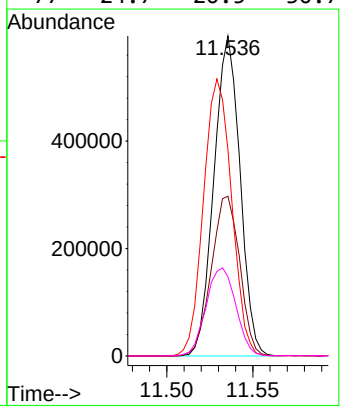


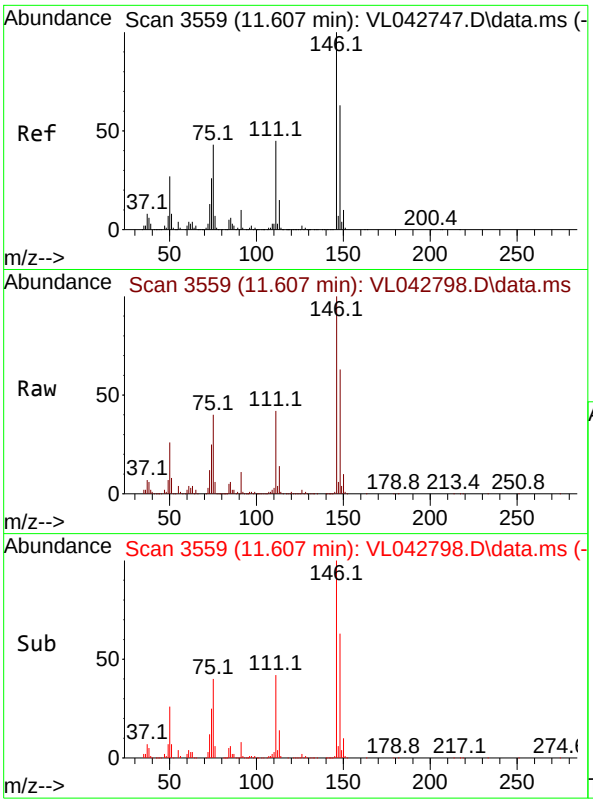


#74
1,2,4-Trimethylbenzene
Concen: 12.264 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:105 Resp: 629983

Ion	Ratio	Lower	Upper
105	100		
120	49.9	40.8	61.2
91	64.3	53.0	79.4
77	24.7	20.5	30.7



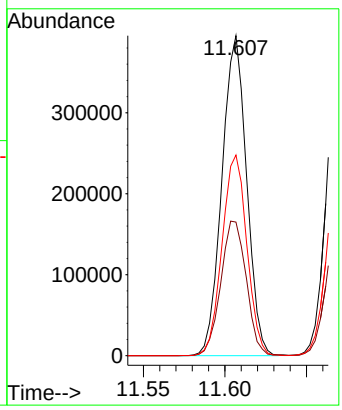


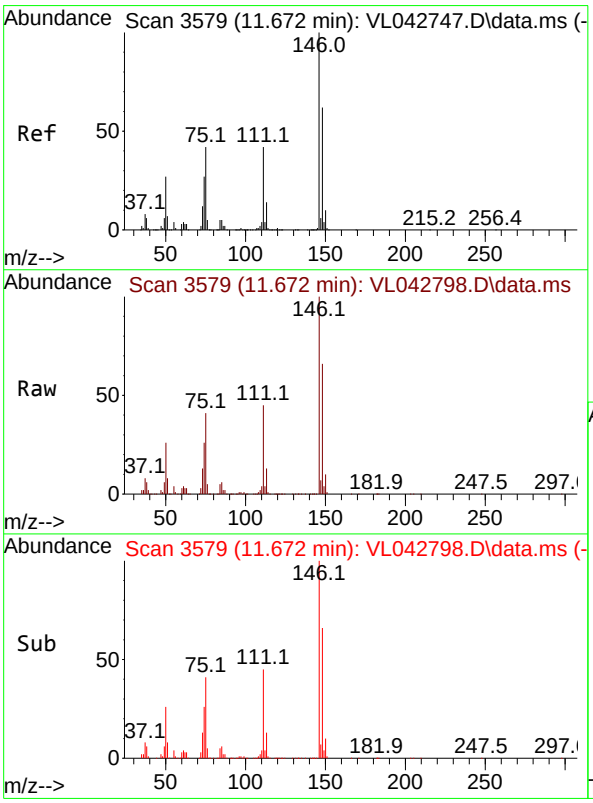
#75
1,3-Dichlorobenzene
Concen: 11.543 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:146 Resp: 415697

Ion	Ratio	Lower	Upper
146	100		
111	43.4	22.7	68.0
148	63.0	31.9	95.5

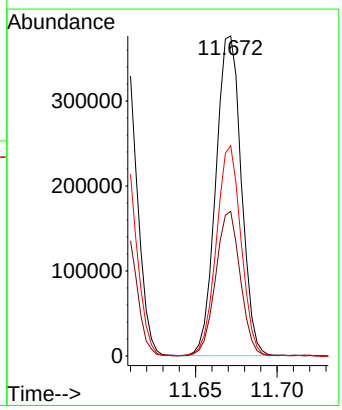


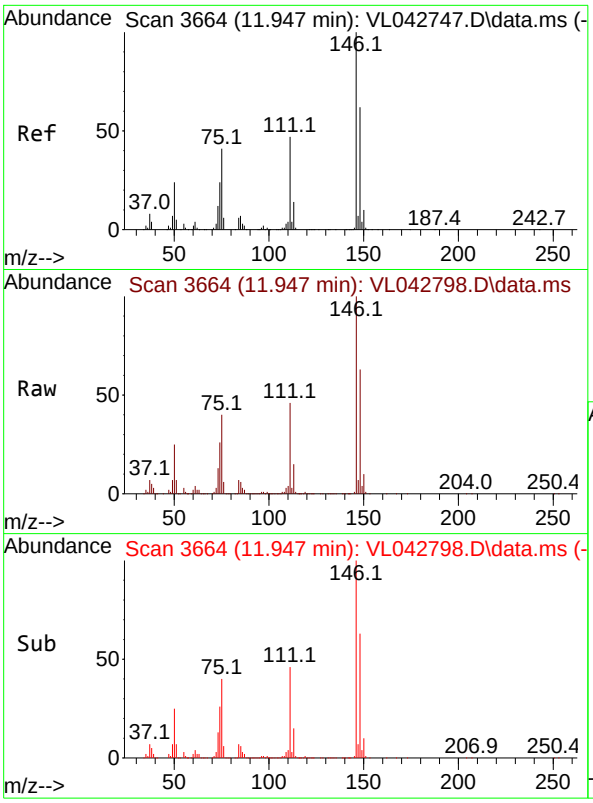


#76
1,4-Dichlorobenzene
Concen: 11.578 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:146 Resp: 408005

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.4	64.2
148	64.0	32.1	96.3



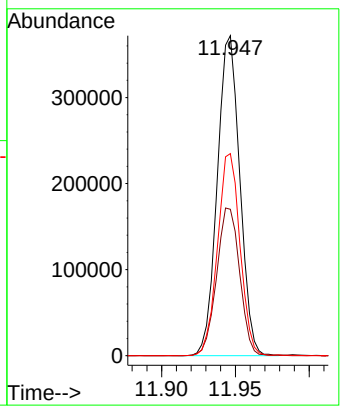


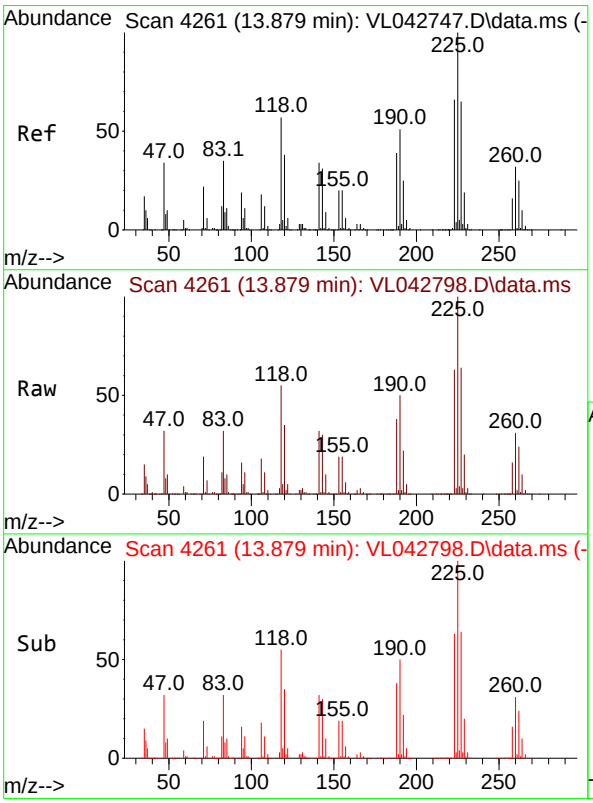
#77
1,2-Dichlorobenzene
Concen: 11.161 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:146 Resp: 395047

Ion	Ratio	Lower	Upper
146	100		
111	47.3	23.7	71.1
148	63.0	32.6	97.7

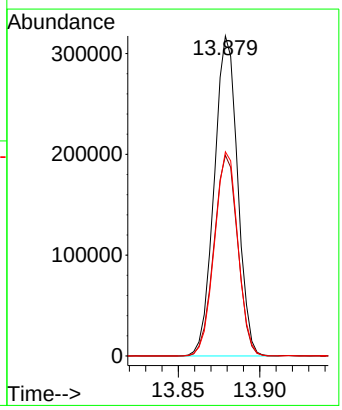


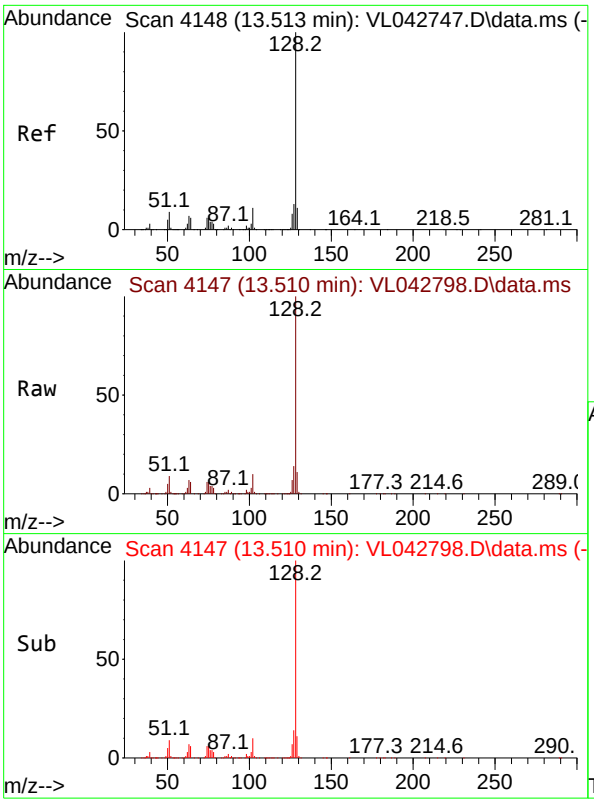


#78
Hexachloro-1,3-Butadiene
Concen: 9.853 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:225 Resp: 315657

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.7	76.1
227	64.1	50.5	75.7



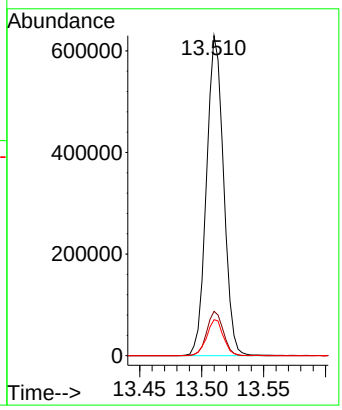


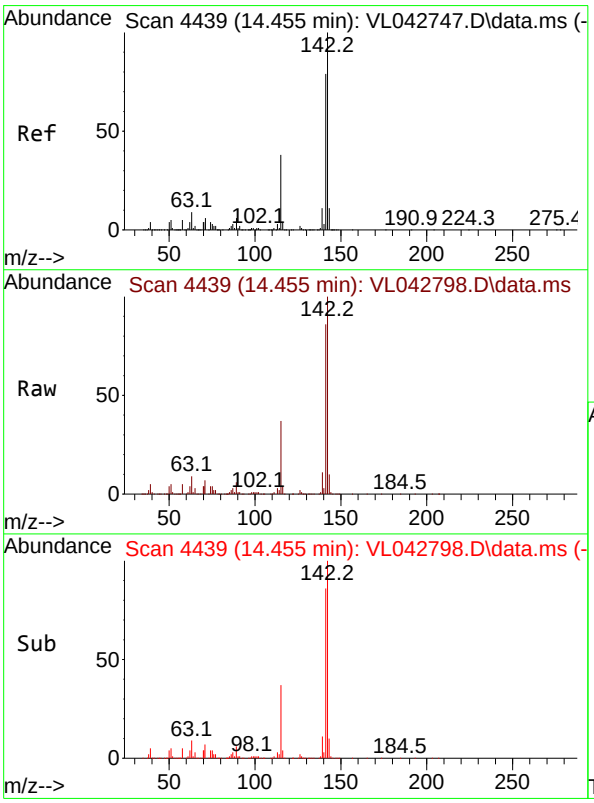
#79
Naphthalene
Concen: 10.821 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:128 Resp: 605271

Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.5	15.7
129	11.3	8.6	13.0

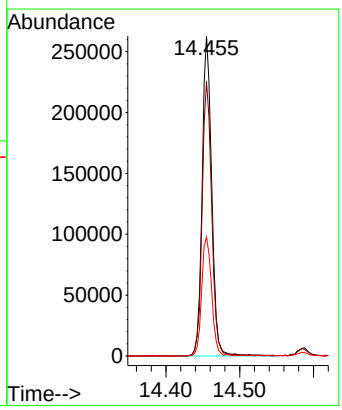


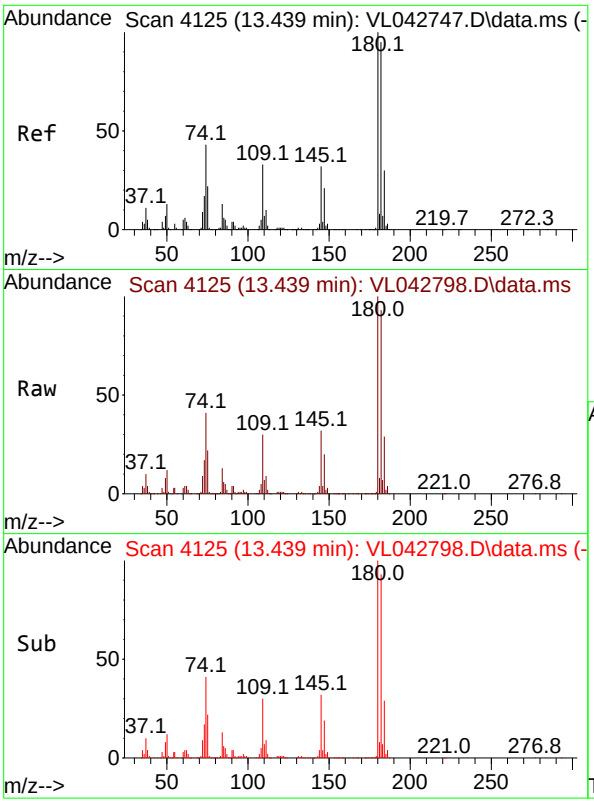


#80
Naphthalene,2-methyl-
Concen: 8.652 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Tgt Ion:142 Resp: 236391

Ion	Ratio	Lower	Upper
142	100		
141	86.3	65.8	98.8
115	38.8	31.2	46.8



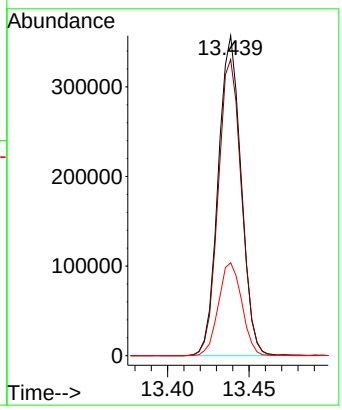


#81
1,2,4-Trichlorobenzene
Concen: 11.052 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042798.D
Acq: 04 Aug 2025 10:58

Instrument :
MSVOA_L
ClientSampleId :
VL0804ABS01

Tgt Ion:180 Resp: 347712

Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.2	114.2
184	29.9	24.8	37.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042799.D
Acq On : 04 Aug 2025 11:49
Operator : SY/MD
Sample : Q2750-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Quant Time: Aug 05 01:01:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	168040	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	466299	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	405142	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	346336	10.794	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 107.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	11725	0.528	ppbv		93
3) Chlorodifluoromethane	1.473	51	1667967	57.631	ppbv	#	80
4) Chloromethane	1.531	50	69558	7.739	ppbv		96
5) Vinyl Chloride	1.486	62	1274	0.143	ppbv	#	44
6) Bromomethane	1.667	94	466	0.136	ppbv	#	50
7) Chloroethane	1.699	64	524	0.153	ppbv		97
8) Dichlorotetrafluoroethane	1.496	85	11725	0.642	ppbv	#	22
9) Propene	1.557	41	551603	52.439	ppbv		96
10) Heptane	4.981	43	1403	0.049	ppbv	#	27
11) Trichlorofluoromethane	1.877	101	4681	0.204	ppbv		94
12) 1,1,2-Trichlorotrifluo...	2.136	101	1508	0.087	ppbv		98
13) Ethanol	1.725	45	4604154	6010.216	ppbv		93
14) Bromoethene	1.790	108	154	0.025	ppbv	#	1
15) Acetone	1.832	43	2199380	94.786	ppbv	#	77
16) 1,3-Butadiene	1.557	39	268799	27.159	ppbv	#	16
17) tert-Butyl alcohol	1.994	59	8540848	408.119	ppbv		97
19) Isopropyl Alcohol	1.949	45	15955054	1293.927	ppbv	#	44
20) Methylene Chloride	2.062	84	14457	1.977	ppbv		98
21) Allyl Chloride	1.994	41	4153383	290.431	ppbv	#	1
23) Vinyl Acetate	2.460	43	59640	2.120	ppbv	#	90
24) 1,1-Dichloroethane	2.784	63	479	0.028	ppbv	#	87
25) Ethyl Acetate	2.842	43	267867	5.215	ppbv	#	79
26) Hexane	2.823	57	43398	1.926	ppbv	#	1
27) Carbon Disulfide	2.146	76	70116	3.635	ppbv	#	65
28) Methyl tert-Butyl Ether	2.441	73	259	0.024	ppbv	#	50
29) Chloroform	2.848	83	28519	0.819	ppbv		97
30) Cyclohexane	3.855	84	1020	0.053	ppbv	#	1
31) cis-1,2-Dichloroethene	2.842	61	27854	1.203	ppbv	#	23
34) 2-Butanone	2.564	43	63731	1.929	ppbv		99
35) Carbon Tetrachloride	3.764	117	3049	0.088	ppbv		94
36) Benzene	3.654	78	13550	0.307	ppbv		96
37) 1,2-Dichloroethane	3.221	62	932	0.035	ppbv	#	94
39) 1,2-Dichloropropane	3.959	63	119604	7.332	ppbv	#	21
40) 1,4-Dioxane	4.609	88	344	0.045	ppbv	#	1
41) Tetrahydrofuran	3.065	42	2814	0.167	ppbv	#	38
42) Bromodichloromethane	4.496	83	2923	0.084	ppbv	#	96
43) Methyl Methacrylate	4.875	69	419	0.027	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.638	57	2638	0.037	ppbv	#	1
53) Toluene	6.933	91	42388	0.893	ppbv		98
58) Ethyl Benzene	9.354	91	3490	0.055	ppbv		94
59) m/p-Xylene	9.561	91	1661	0.032	ppbv	#	30
60) o-Xylene	9.969	91	4755	0.093	ppbv		99
61) Styrene	9.869	104	3306	0.154	ppbv	#	65

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042799.D
Acq On : 04 Aug 2025 11:49
Operator : SY/MD
Sample : Q2750-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Quant Time: Aug 05 01:01:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
62) Isopropylbenzene	10.542	105	1812	0.024	ppbv	#	72
66) Benzyl Chloride	11.545	91	12357	2.249	ppbv	#	66
67) sec-Butylbenzene	11.850	105	41487	0.436	ppbv		97
69) p-Isopropyltoluene	11.927	119	54078	0.697	ppbv	#	93
70) n-Butylbenzene	12.348	91	20385	0.272	ppbv	#	85
71) 2-Chlorotoluene	10.739	91	1555	0.027	ppbv		71
72) 4-Ethyltoluene	11.121	105	1455	0.024	ppbv	#	55
73) 1,3,5-Trimethylbenzene	11.205	105	2278	0.045	ppbv		98
74) 1,2,4-Trimethylbenzene	11.539	105	9738	0.178	ppbv	#	79
75) 1,3-Dichlorobenzene	11.607	146	994	0.026	ppbv		67
76) 1,4-Dichlorobenzene	11.675	146	3042	0.081	ppbv	#	85
77) 1,2-Dichlorobenzene	11.947	146	1343	0.036	ppbv		80
78) Hexachloro-1,3-Butadiene	13.882	225	746	0.022	ppbv	#	85
79) Naphthalene	13.513	128	6363	0.537	ppbv	#	91
80) Naphthalene,2-methyl-	14.458	142	2085	1.191	ppbv	#	81
81) 1,2,4-Trichlorobenzene	13.442	180	2468	0.506	ppbv	#	90

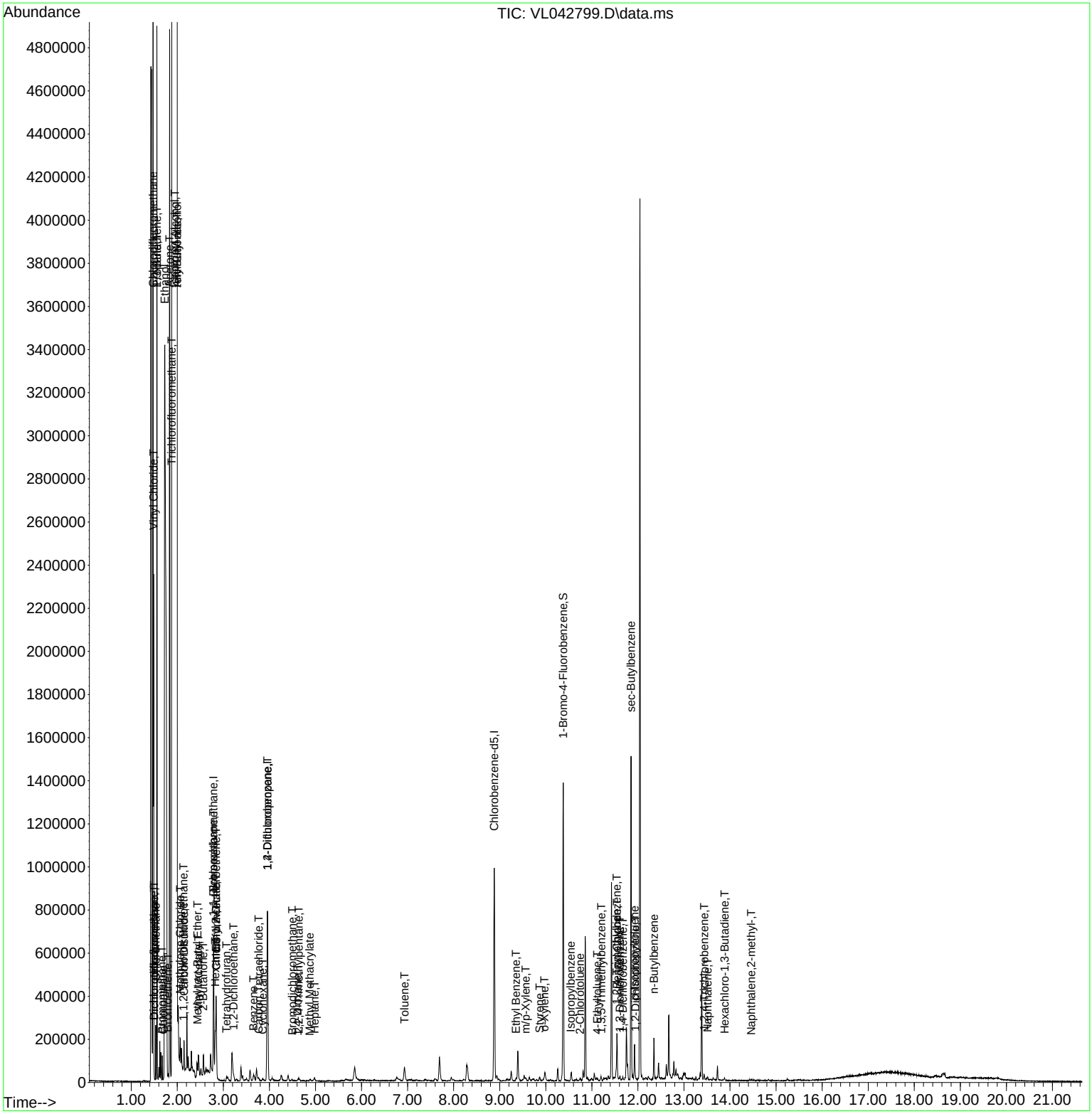
(#) = qualifier out of range (m) = manual integration (+) = signals summed

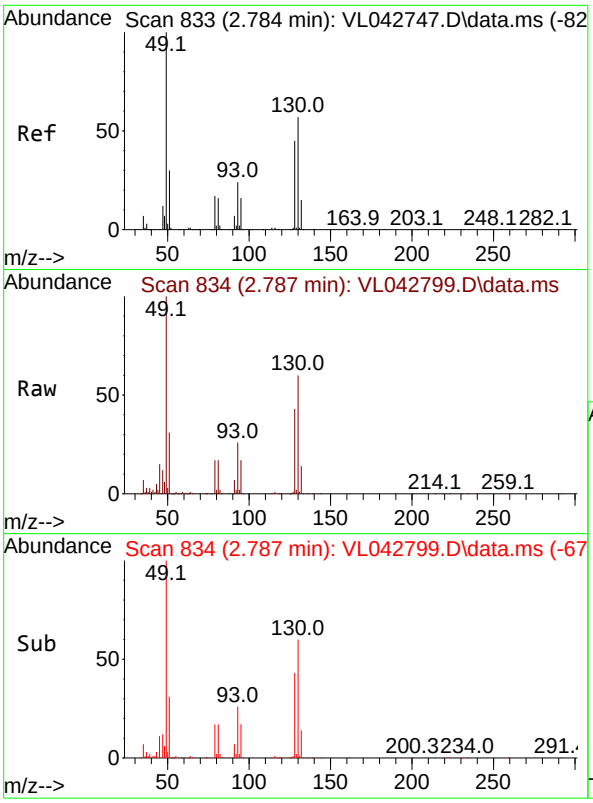
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042799.D
Acq On : 04 Aug 2025 11:49
Operator : SY/MD
Sample : Q2750-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Quant Time: Aug 05 01:01:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



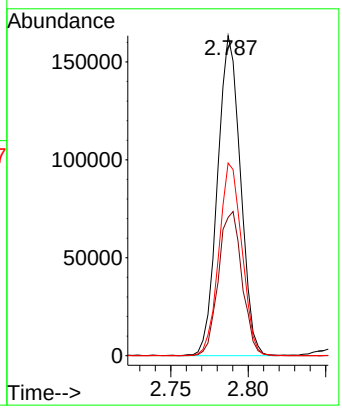


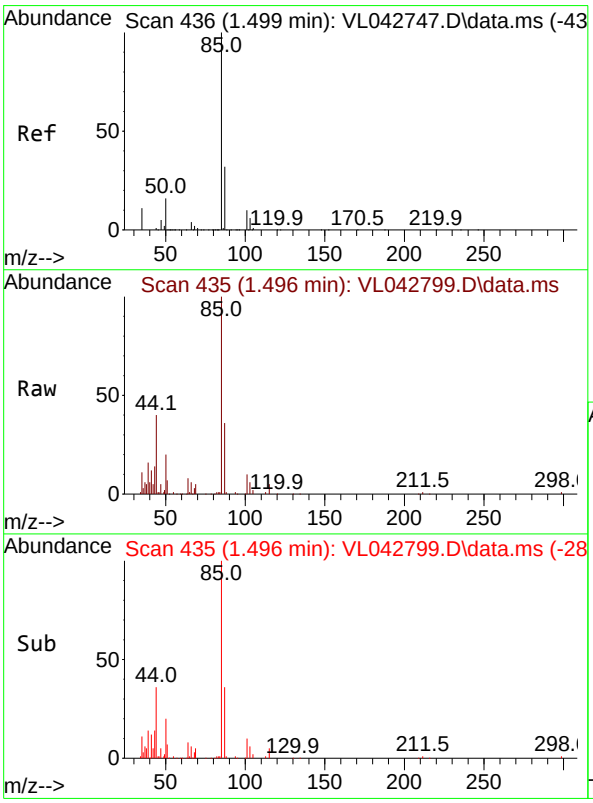
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 49 Resp: 168040

Ion	Ratio	Lower	Upper
49	100		
128	46.4	23.6	71.0
130	60.3	30.3	90.8

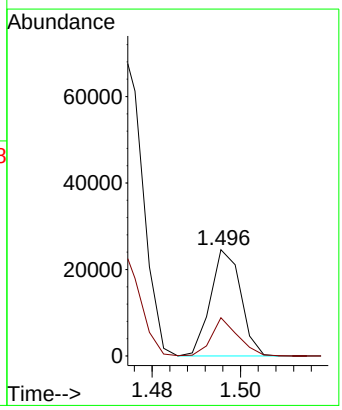


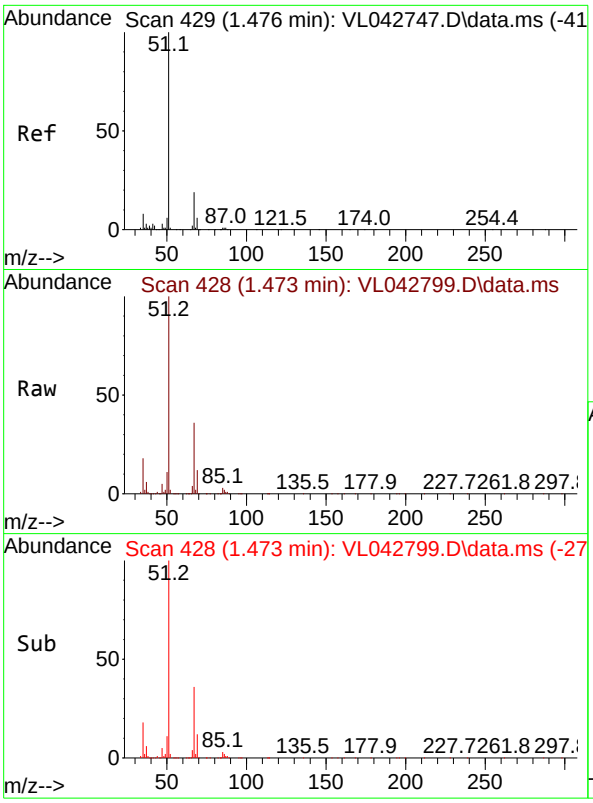


#2
Dichlorodifluoromethane
Concen: 0.528 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 85 Resp: 11725

Ion	Ratio	Lower	Upper
85	100		
87	35.7	25.4	38.2



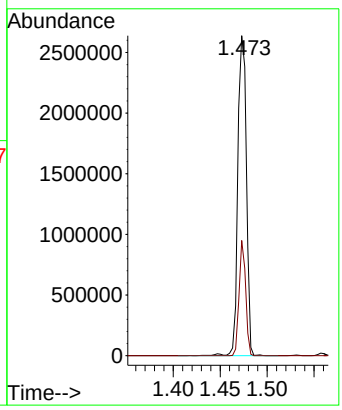


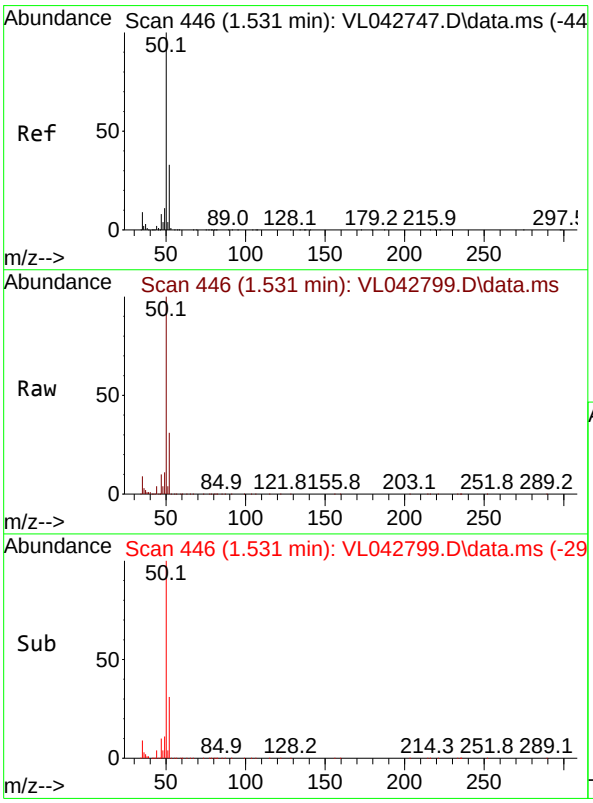
#3
Chlorodifluoromethane
Concen: 57.631 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 51 Resp: 1667967

Ion	Ratio	Lower	Upper
51	100		
67	27.7	15.0	22.6#

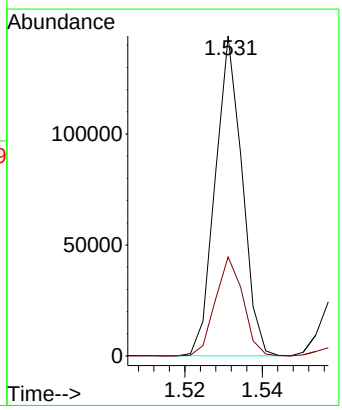


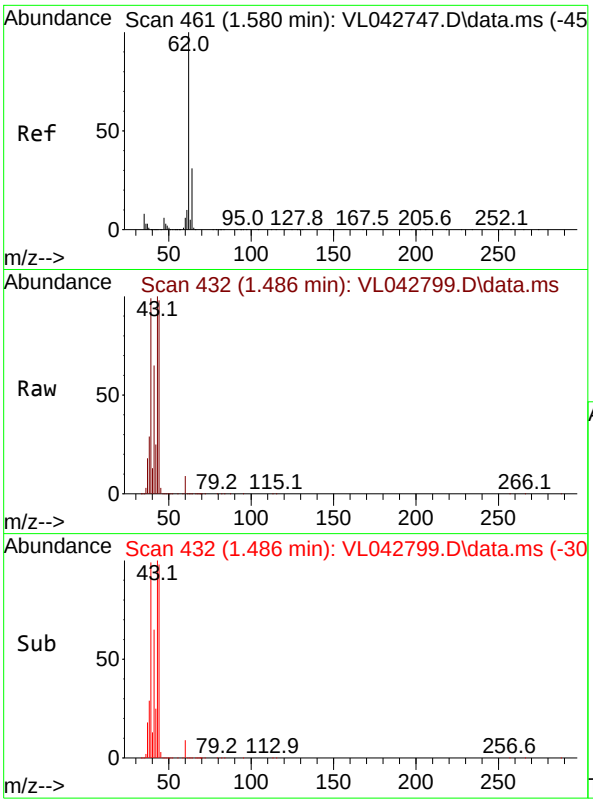


#4
Chloromethane
Concen: 7.739 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 50 Resp: 69558

Ion	Ratio	Lower	Upper
50	100		
52	30.9	26.6	40.0



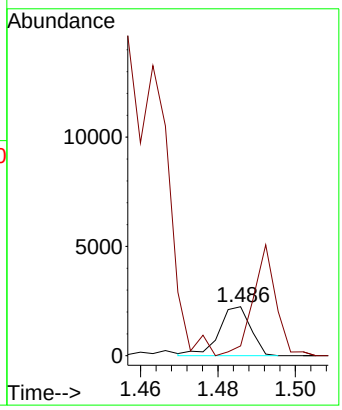


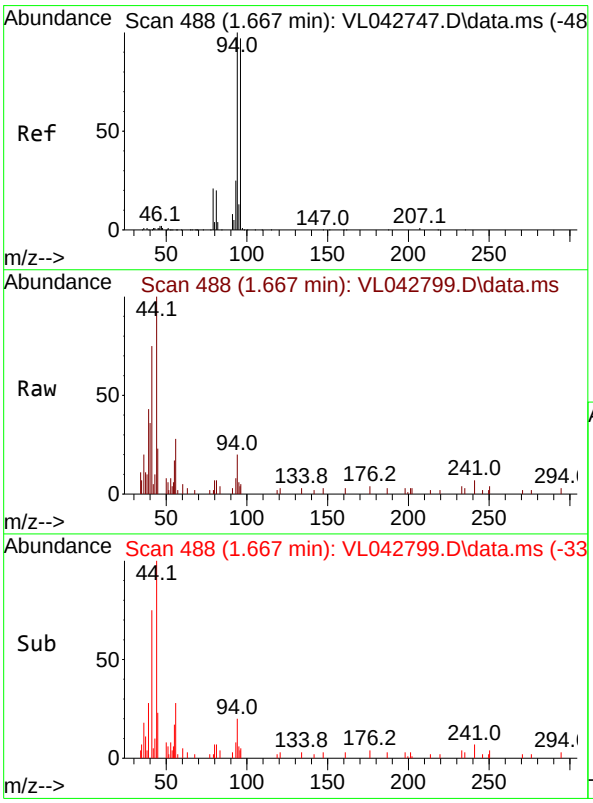
#5
Vinyl Chloride
Concen: 0.143 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.094 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 62 Resp: 1274

Ion	Ratio	Lower	Upper
62	100		
64	0.0	24.5	36.7#

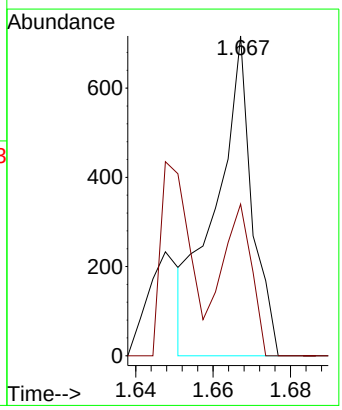


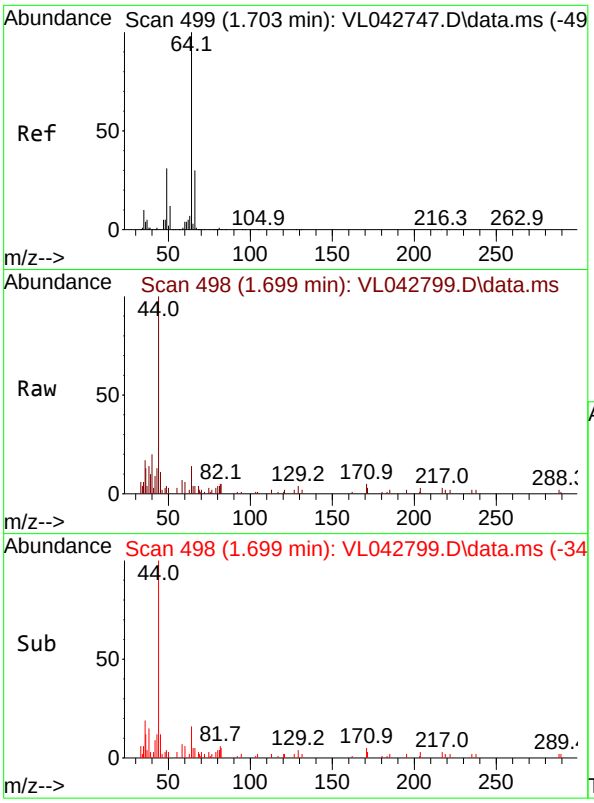


#6
Bromomethane
Concen: 0.136 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 94 Resp: 466

Ion	Ratio	Lower	Upper
94	100		
96	47.4	77.6	116.4#



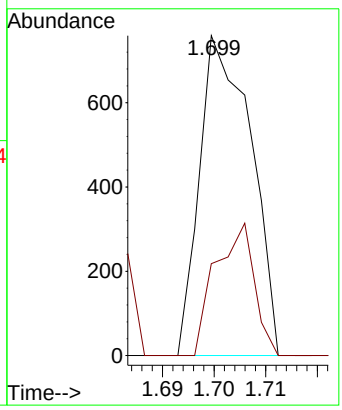


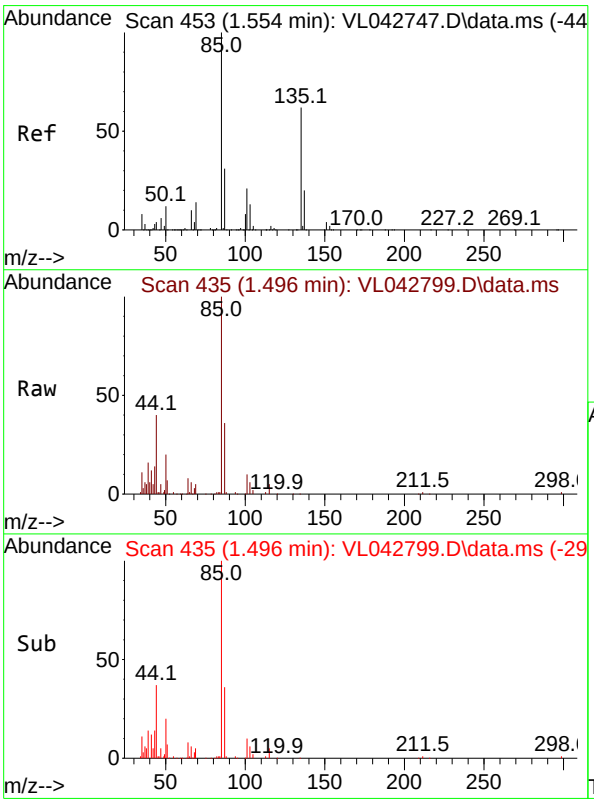
#7
Chloroethane
Concen: 0.153 ppbv
RT: 1.699 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 64 Resp: 524

Ion	Ratio	Lower	Upper
64	100		
66	28.7	24.1	36.1

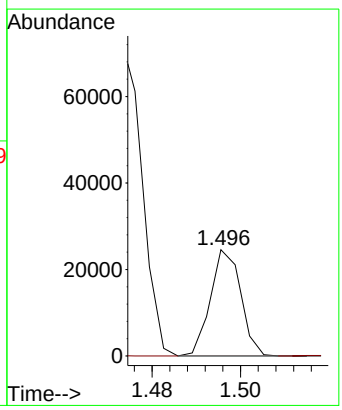


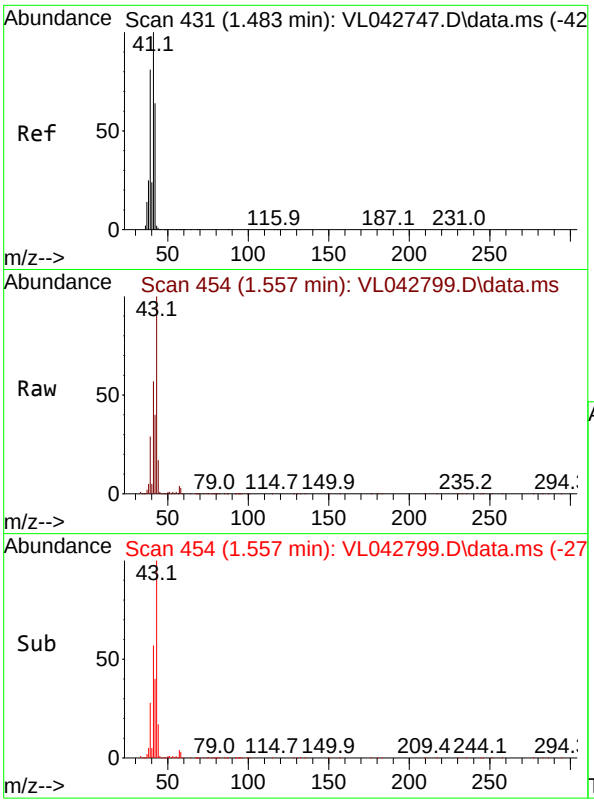


#8
Dichlorotetrafluoroethane
Concen: 0.642 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.058 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 85 Resp: 11725

Ion	Ratio	Lower	Upper
85	100		
135	2.3	50.6	76.0#



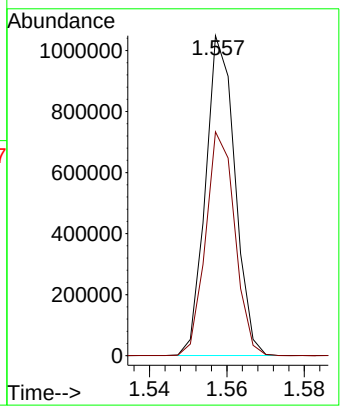


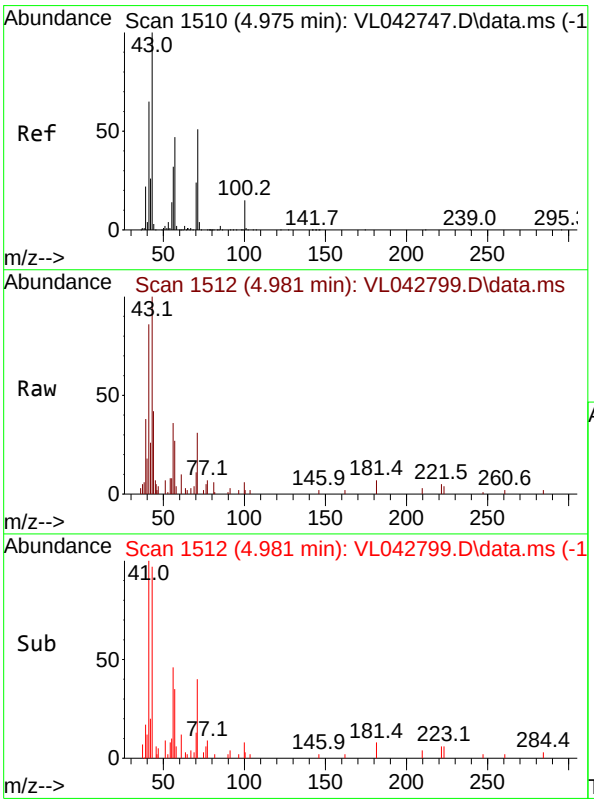
#9
Propene
Concen: 52.439 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.074 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 41 Resp: 551603

Ion	Ratio	Lower	Upper
41	100		
42	69.8	53.2	79.8

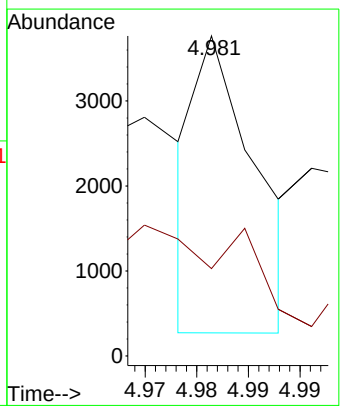


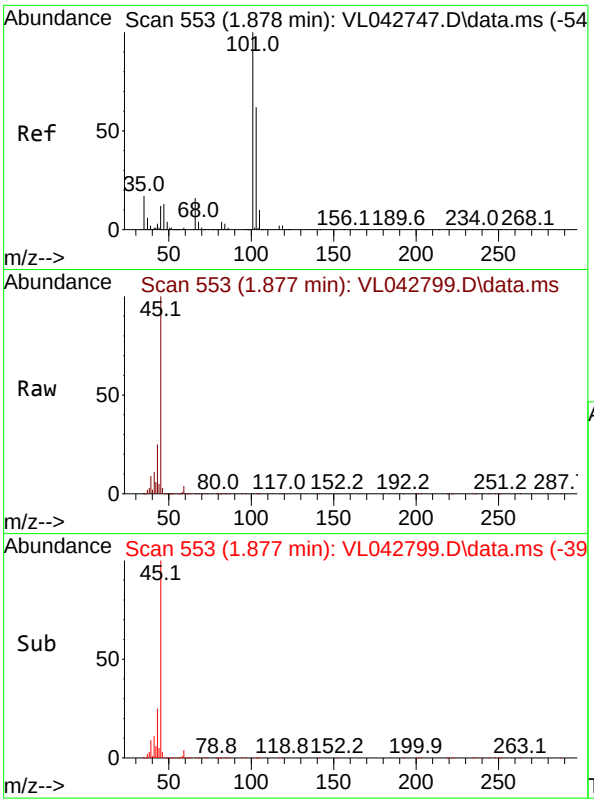


#10
Heptane
Concen: 0.049 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 43 Resp: 1403

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.9	59.9#



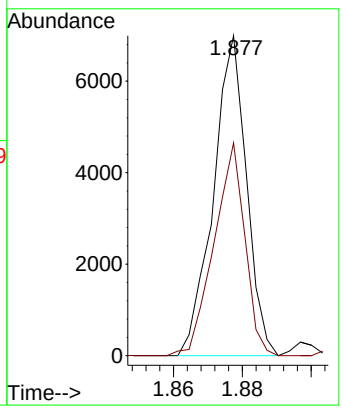


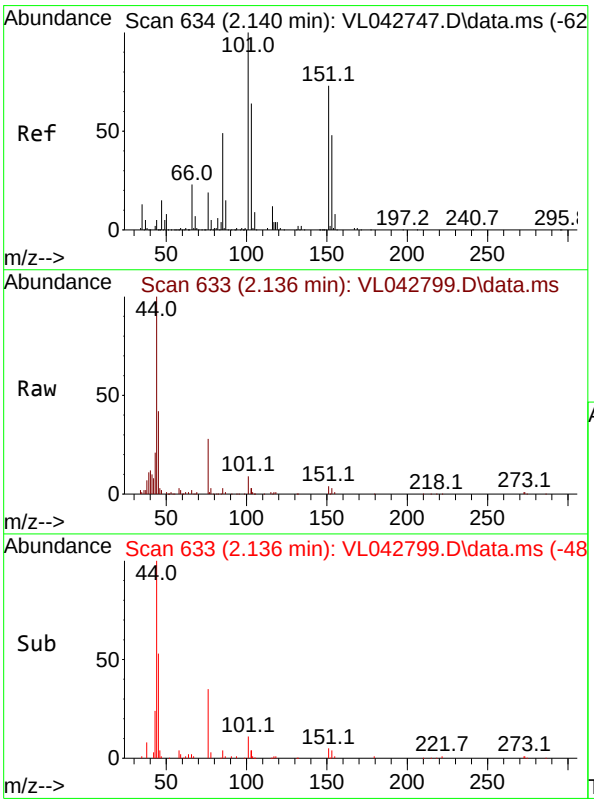
#11
Trichlorofluoromethane
Concen: 0.204 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion:101 Resp: 4681

Ion	Ratio	Lower	Upper
101	100		
103	66.5	49.6	74.4

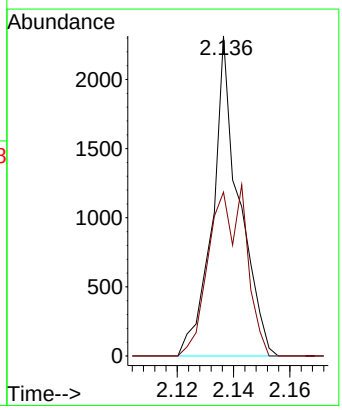


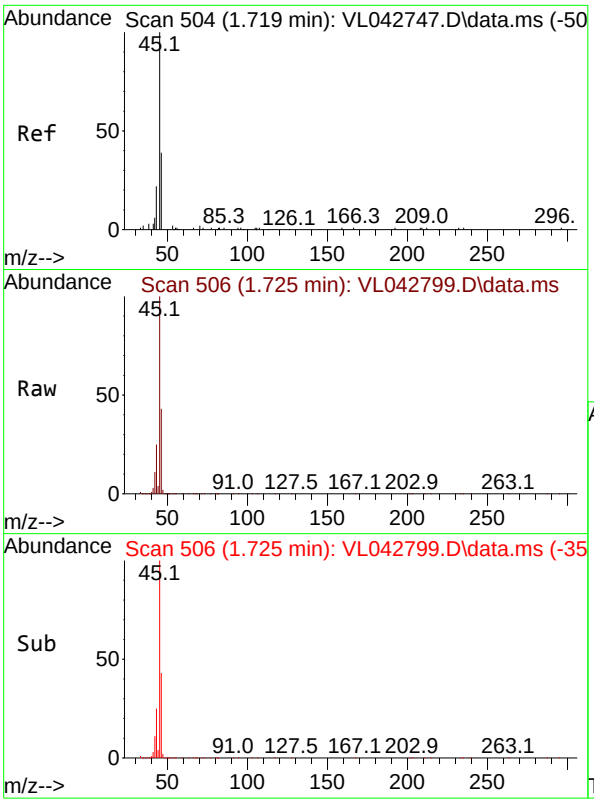


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.087 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:101 Resp: 1508

Ion	Ratio	Lower	Upper
101	100		
151	73.5	60.5	90.7



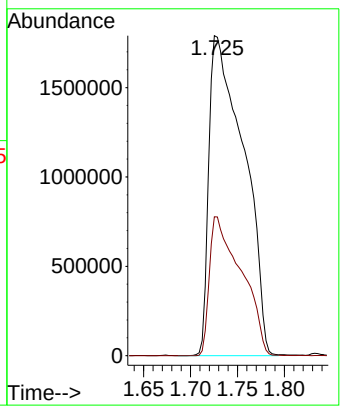


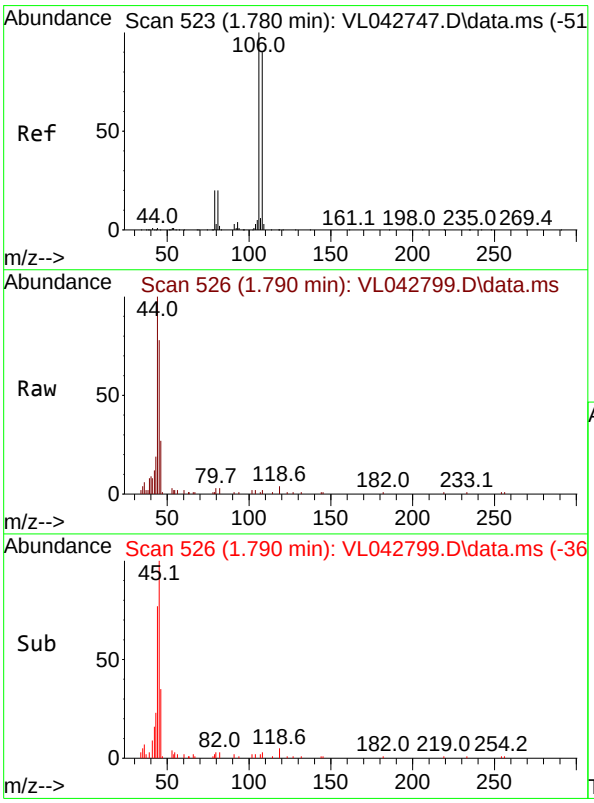
#13
Ethanol
Concen: 6010.216 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 45 Resp: 4604154

Ion	Ratio	Lower	Upper
45	100		
46	40.0	17.8	71.4

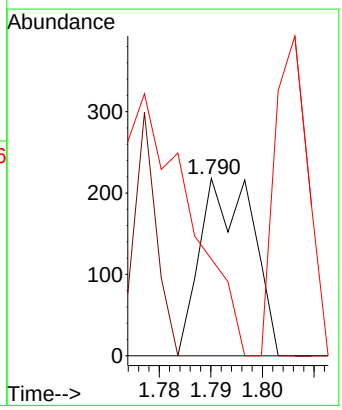


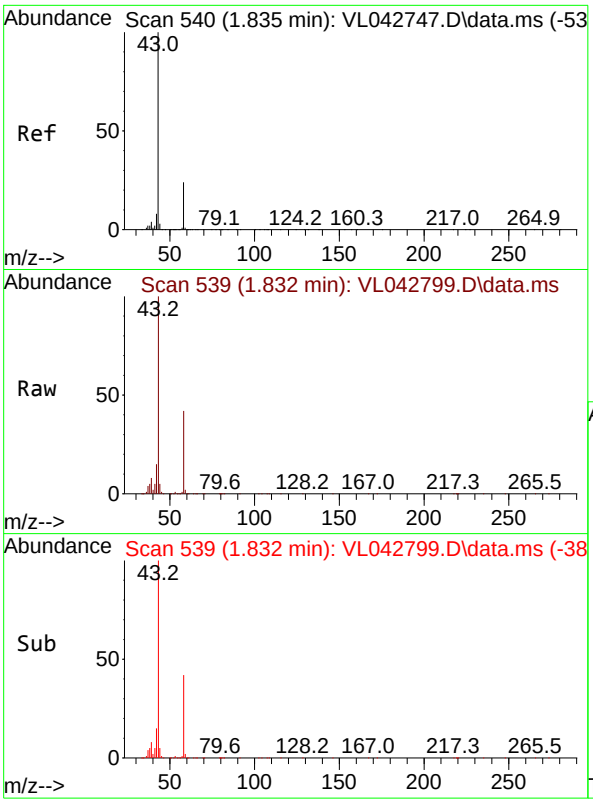


#14
Bromoethene
Concen: 0.025 ppbv
RT: 1.790 min Scan# 526
Delta R.T. 0.010 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:108 Resp: 154

Ion	Ratio	Lower	Upper
108	100		
106	0.0	84.7	127.1#
79	241.6	17.4	26.2#



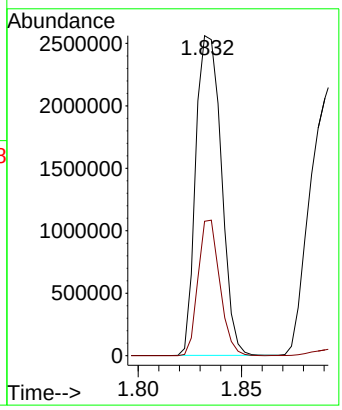


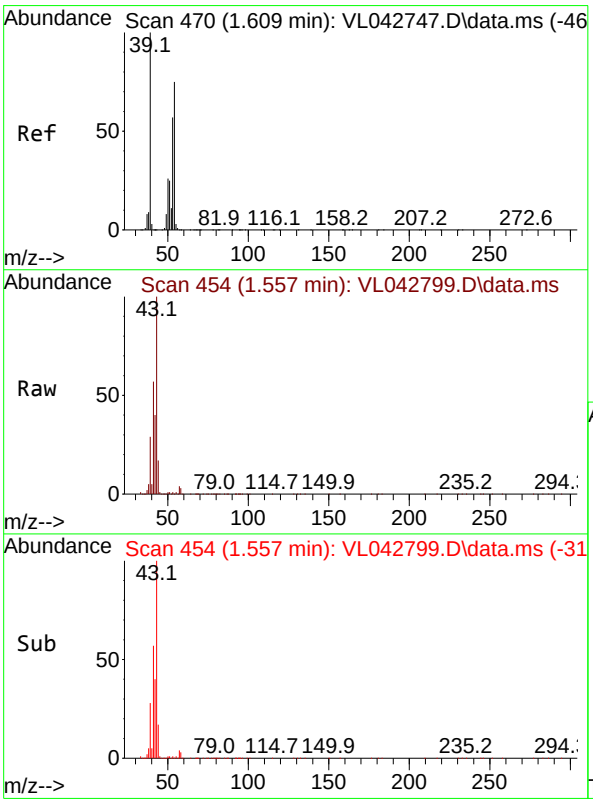
#15
Acetone
Concen: 94.786 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 43 Resp: 2199380

Ion	Ratio	Lower	Upper
43	100		
58	36.1	19.8	29.8#

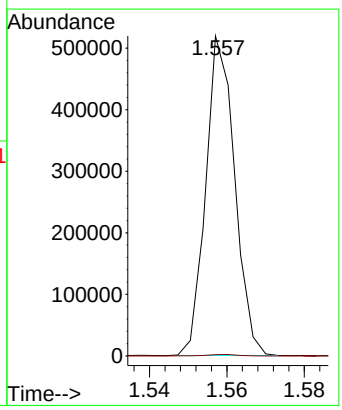


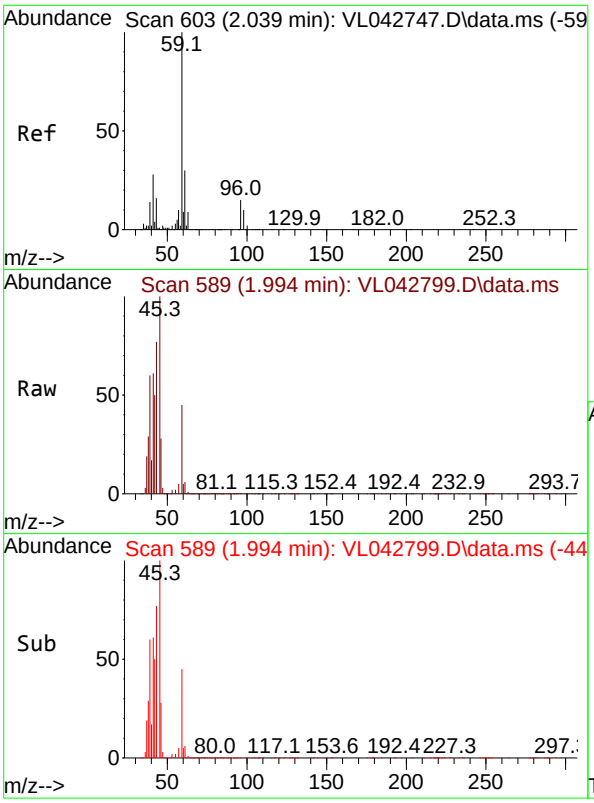


#16
1,3-Butadiene
Concen: 27.159 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.052 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 39 Resp: 268799

Ion	Ratio	Lower	Upper
39	100		
54	0.5	54.5	81.7#



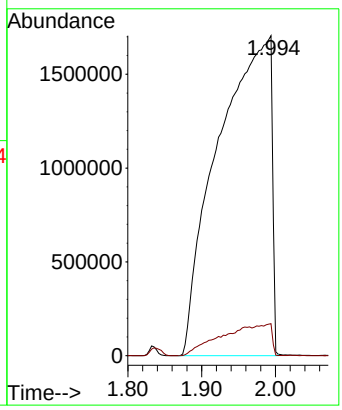


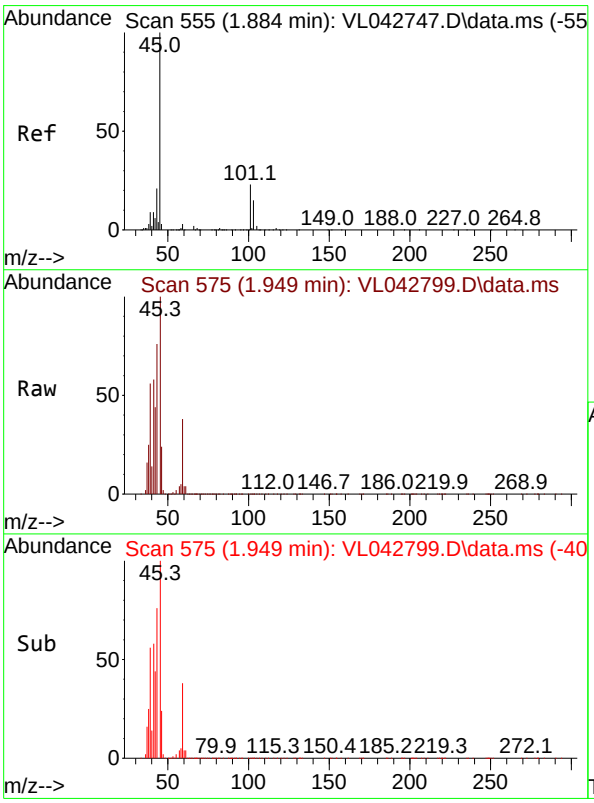
#17
tert-Butyl alcohol
Concen: 408.119 ppbv
RT: 1.994 min Scan# 5
Delta R.T. -0.045 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 59 Resp: 8540848

Ion	Ratio	Lower	Upper
59	100		
57	9.2	8.3	12.5

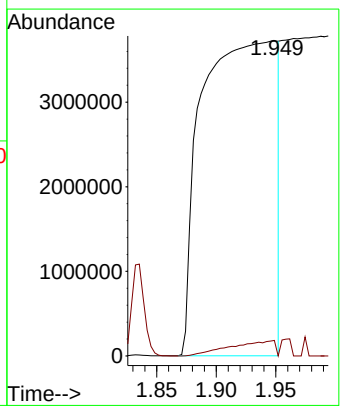


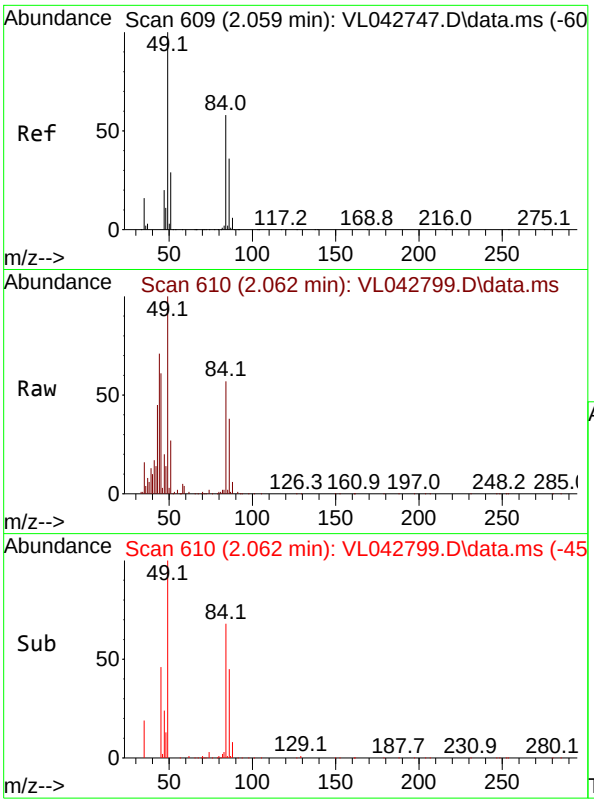


#19
Isopropyl Alcohol
Concen: 1293.927 ppbv
RT: 1.949 min Scan# 575
Delta R.T. 0.065 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 45 Resp:15955054

Ion	Ratio	Lower	Upper
45	100		
58	3.9	30.0	45.0#



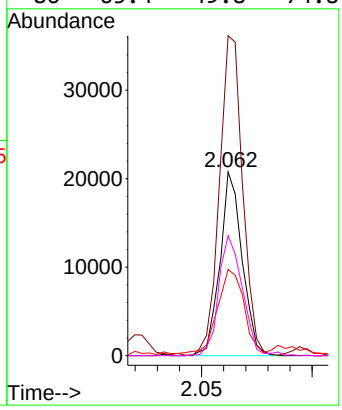


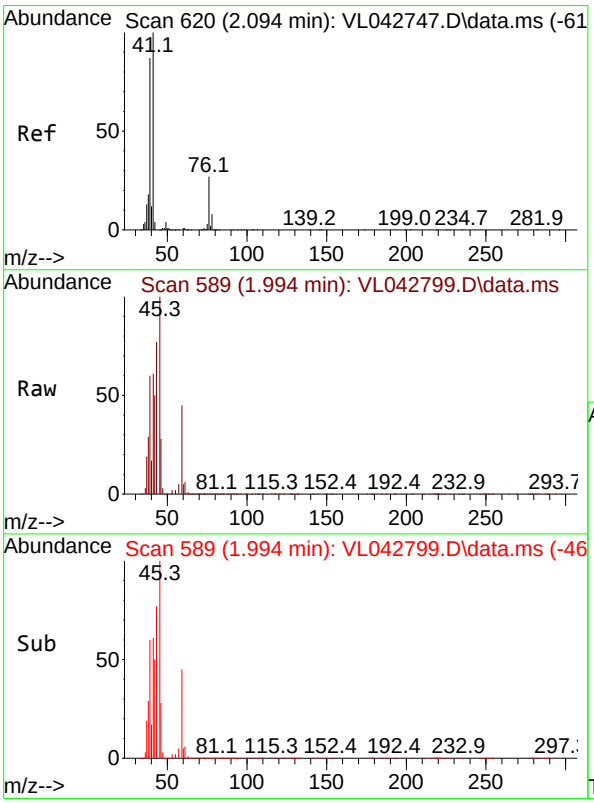
#20
Methylene Chloride
Concen: 1.977 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 84 Resp: 14457

Ion	Ratio	Lower	Upper
84	100		
49	173.8	138.6	208.0
51	45.5	40.6	61.0
86	65.4	49.8	74.8

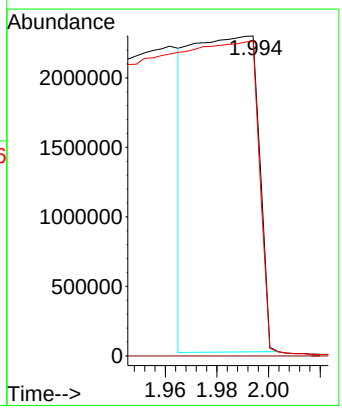


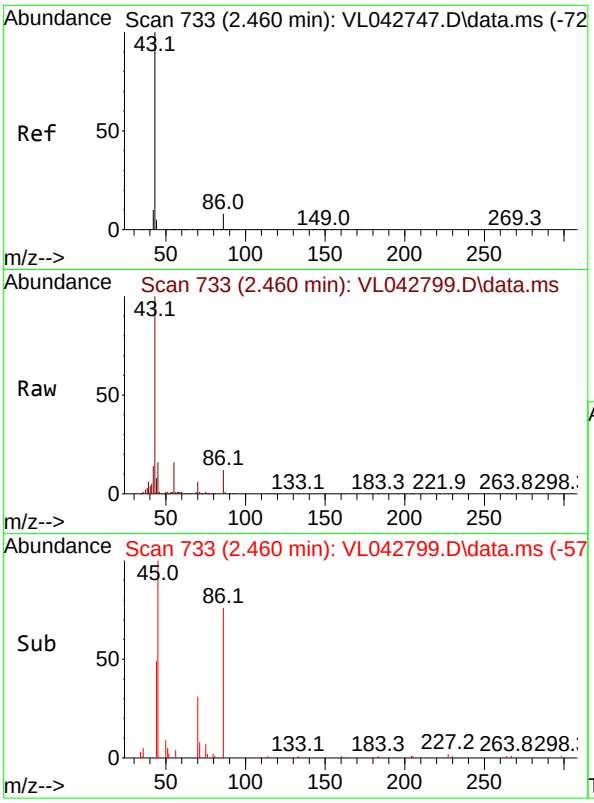


#21
Allyl Chloride
Concen: 290.431 ppbv
RT: 1.994 min Scan# 589
Delta R.T. -0.100 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 41 Resp: 4153383

Ion	Ratio	Lower	Upper
41	100		
76	1.7	21.1	31.7#
39	314.6	68.3	102.5#



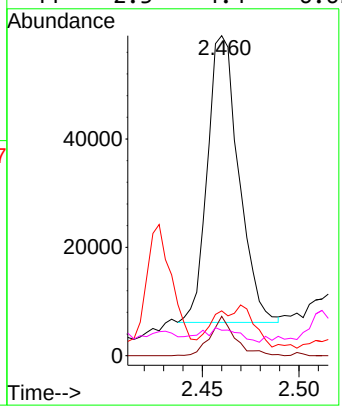


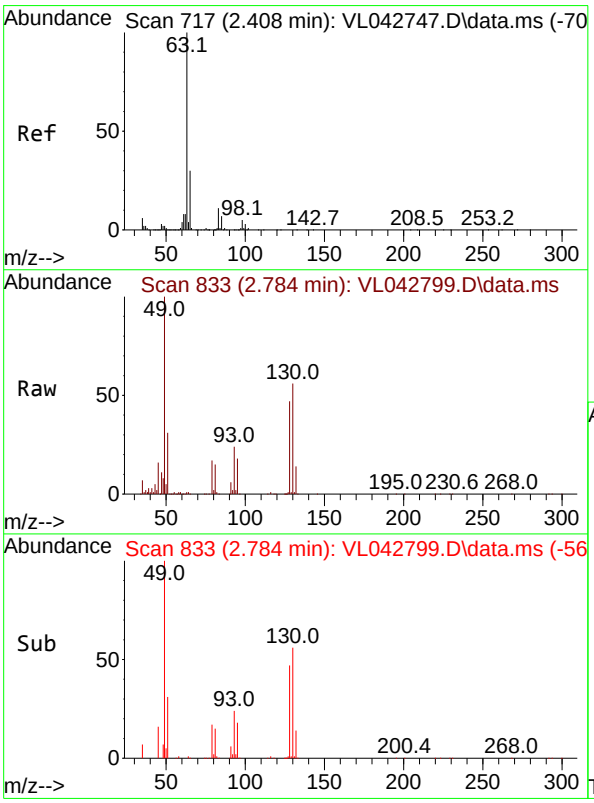
#23
Vinyl Acetate
Concen: 2.120 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 43 Resp: 59640

Ion	Ratio	Lower	Upper
43	100		
86	13.6	6.1	9.1#
42	11.7	7.8	11.8
44	2.3	4.4	6.6#

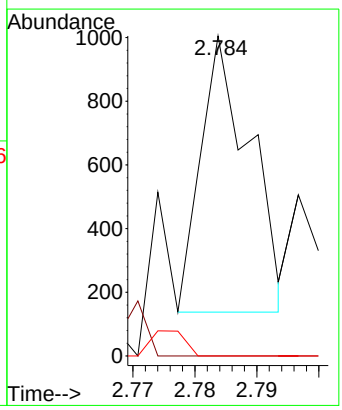


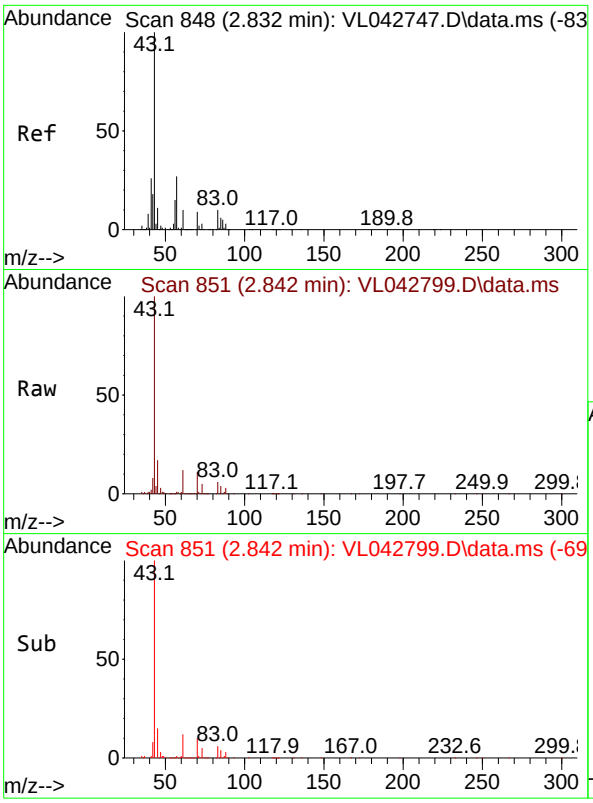


#24
1,1-Dichloroethane
Concen: 0.028 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.375 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 63 Resp: 479

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.5	7.4#
100	0.0	1.6	4.8#



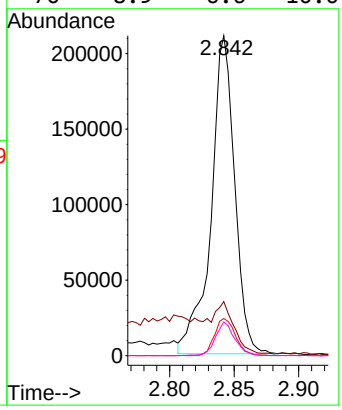


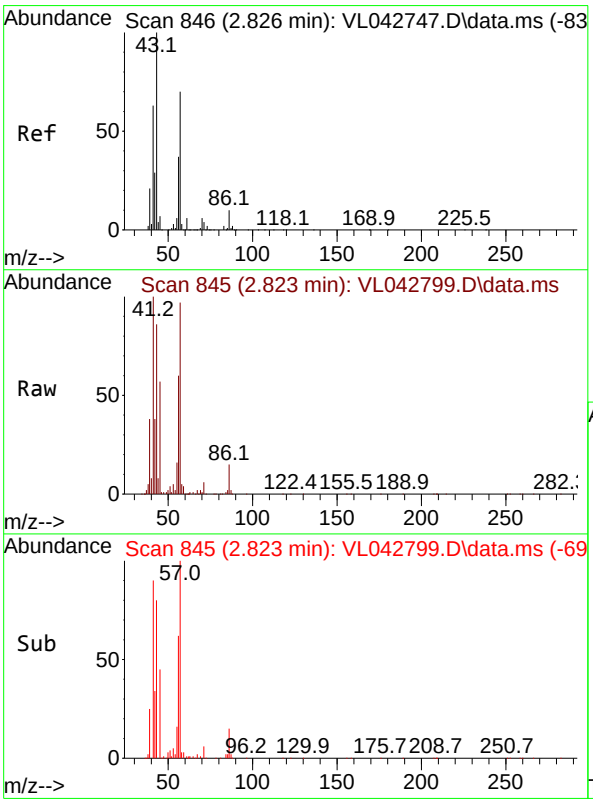
#25
Ethyl Acetate
Concen: 5.215 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 43 Resp: 267867

Ion	Ratio	Lower	Upper
43	100		
45	28.6	7.8	11.6#
61	10.5	6.7	10.1#
70	8.9	6.6	10.0

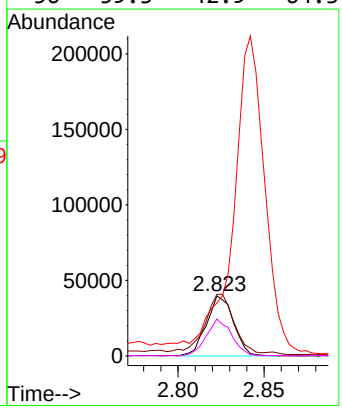


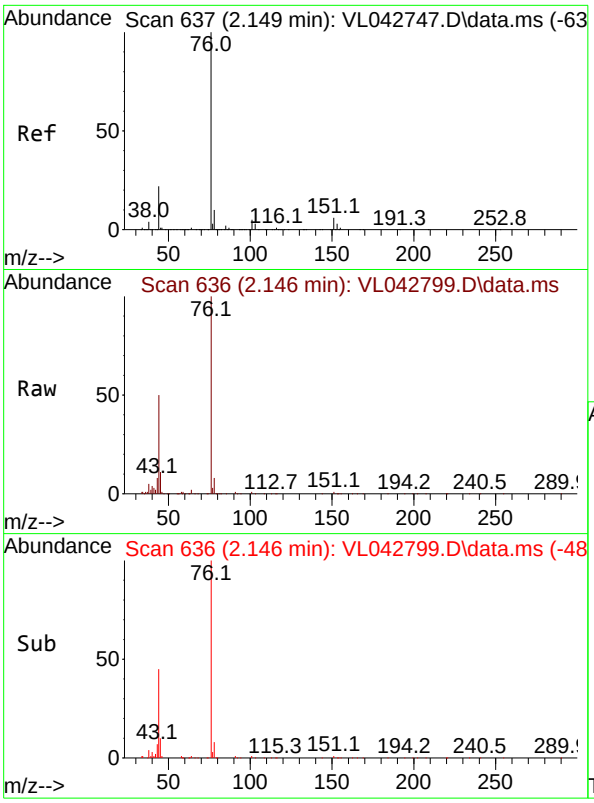


#26
Hexane
Concen: 1.926 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 57 Resp: 43398

Ion	Ratio	Lower	Upper
57	100		
41	115.1	75.4	113.2#
43	680.3	185.0	277.6#
56	59.3	42.9	64.3



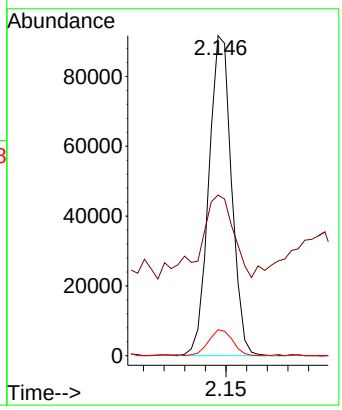


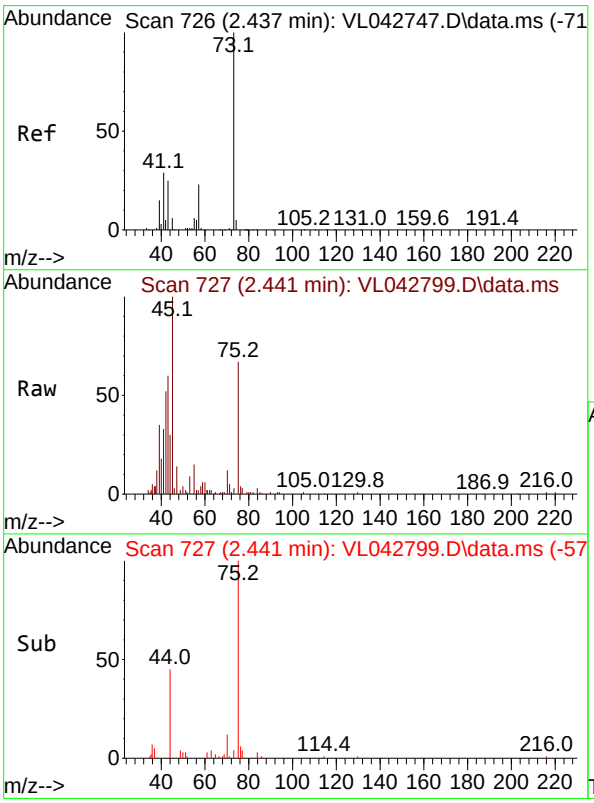
#27
Carbon Disulfide
Concen: 3.635 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 76 Resp: 70116

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.0	9.9	14.9#

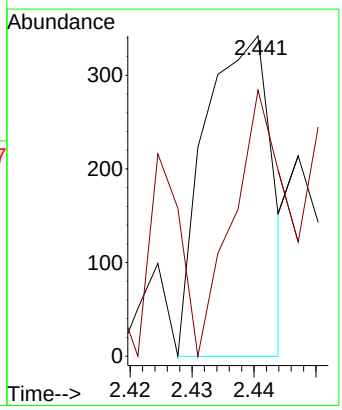


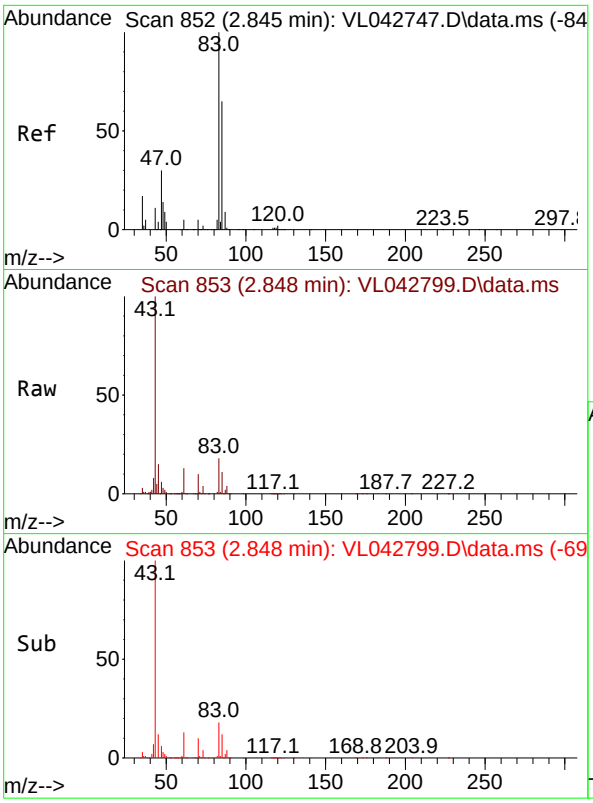


#28
Methyl tert-Butyl Ether
Concen: 0.024 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 73 Resp: 259

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.8	29.8#



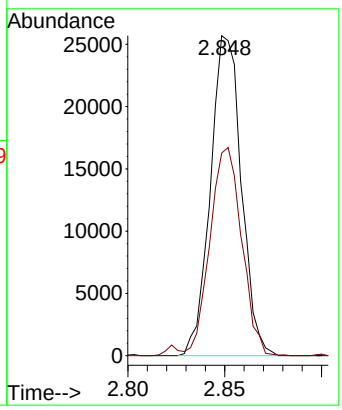


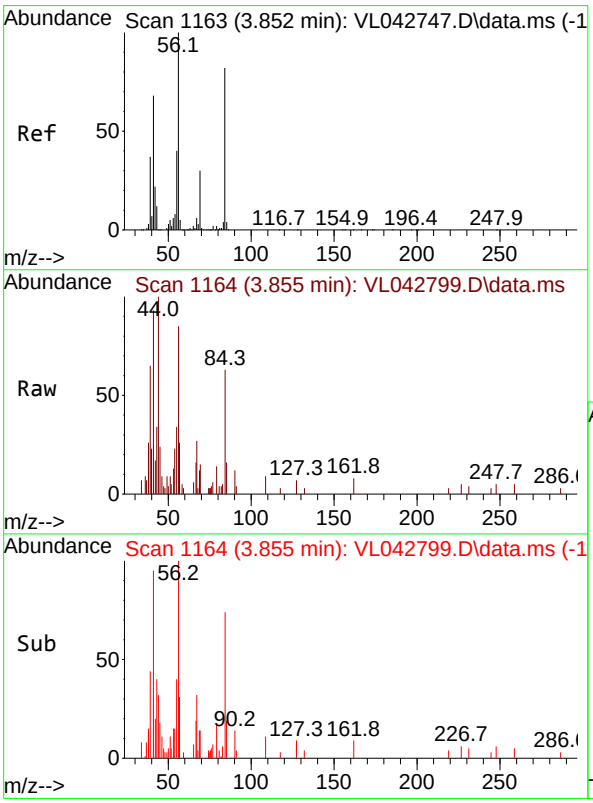
#29
Chloroform
Concen: 0.819 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 83 Resp: 28519

Ion	Ratio	Lower	Upper
83	100		
85	63.1	52.2	78.2

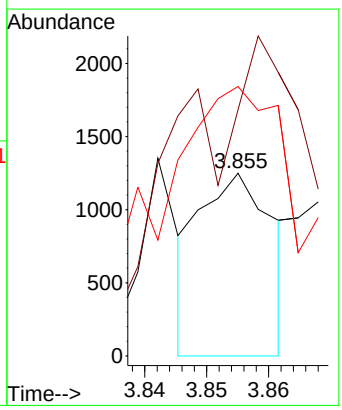


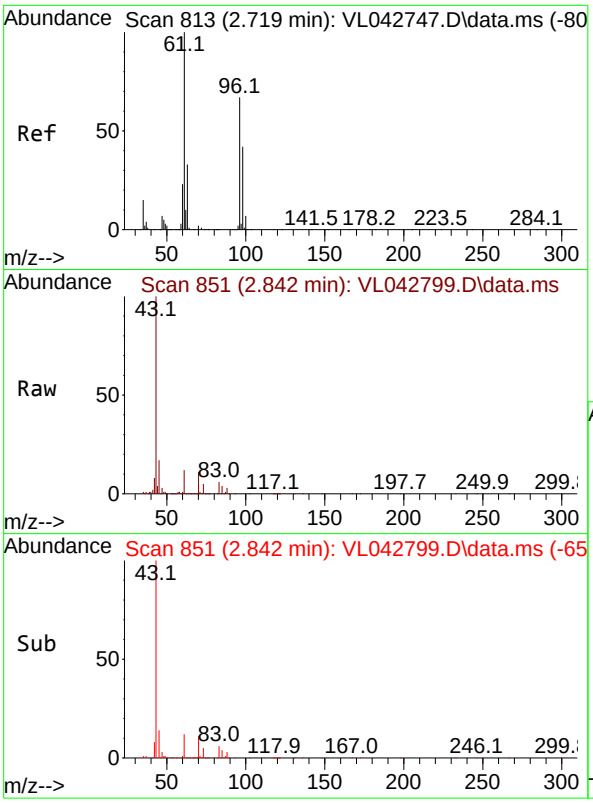


#30
Cyclohexane
Concen: 0.053 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 84 Resp: 1020

Ion	Ratio	Lower	Upper
84	100		
56	308.9	97.5	146.3#
41	203.5	67.2	100.8#



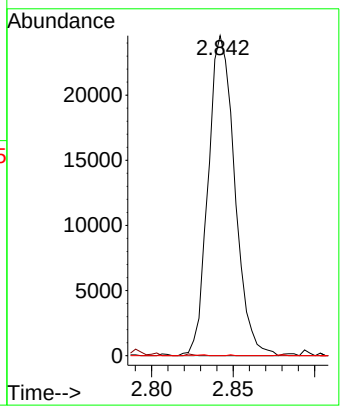


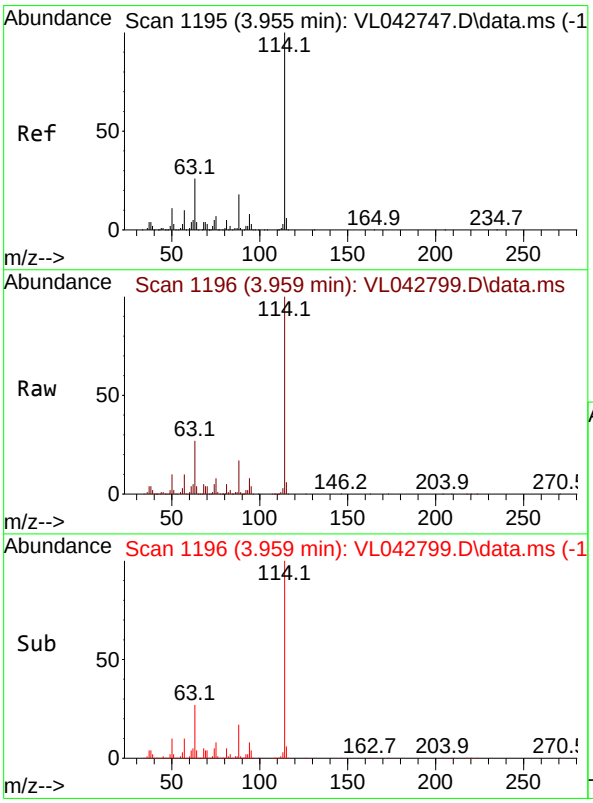
#31
cis-1,2-Dichloroethene
Concen: 1.203 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.123 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 61 Resp: 27854

Ion	Ratio	Lower	Upper
61	100		
96	0.0	53.5	80.3#
98	0.0	33.6	50.4#

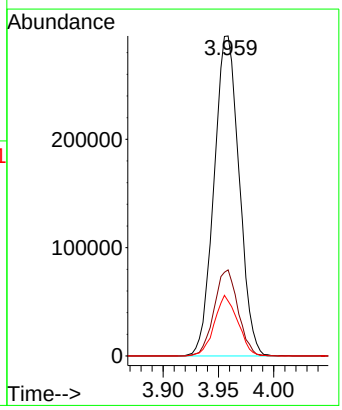


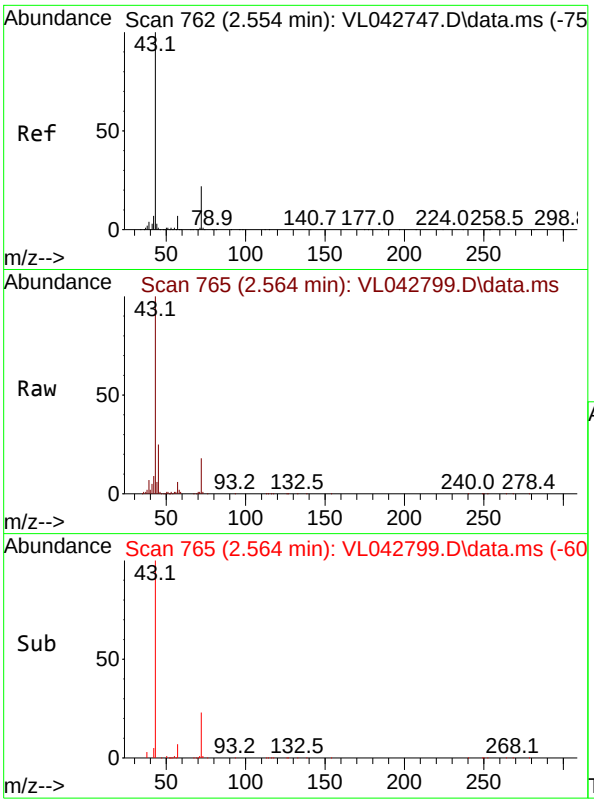


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:114 Resp: 466299

Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.5	30.7
88	17.7	14.0	21.0



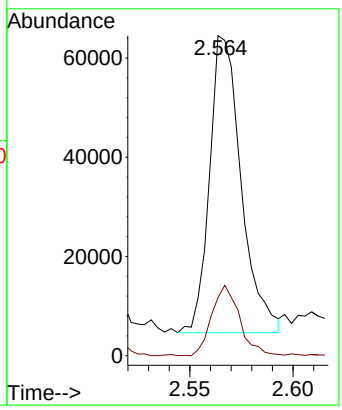


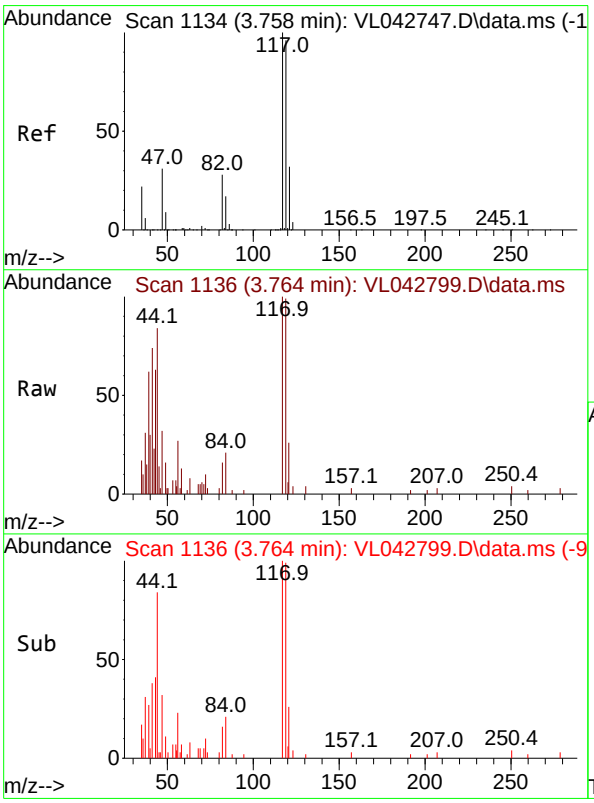
#34
2-Butanone
Concen: 1.929 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 43 Resp: 63731

Ion	Ratio	Lower	Upper
43	100		
72	21.4	17.4	26.0

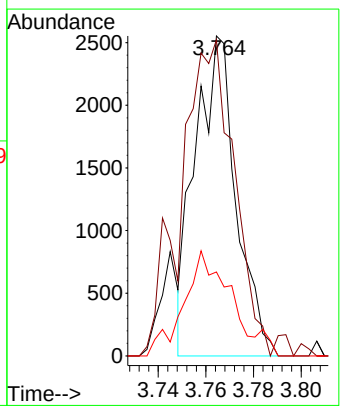


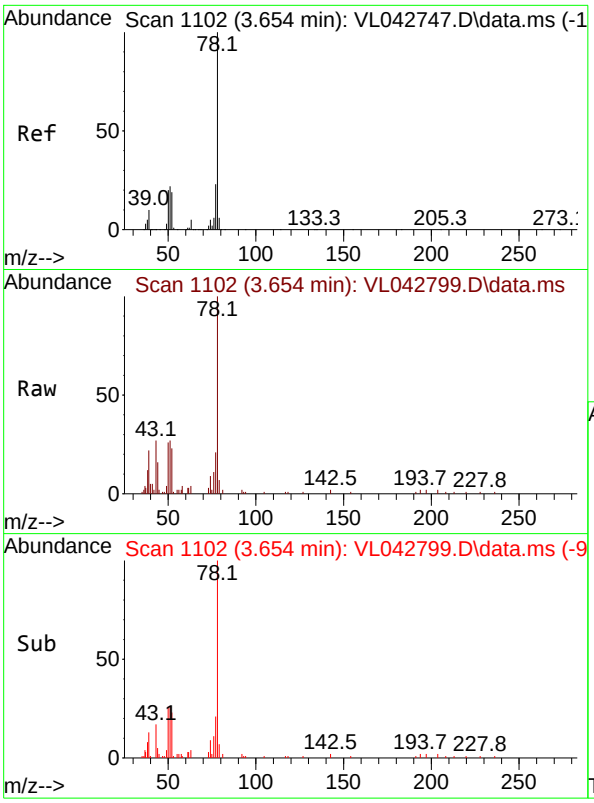


#35
Carbon Tetrachloride
Concen: 0.088 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.006 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:117 Resp: 3049

Ion	Ratio	Lower	Upper
117	100		
119	92.5	77.1	115.7
121	26.2	25.5	38.3



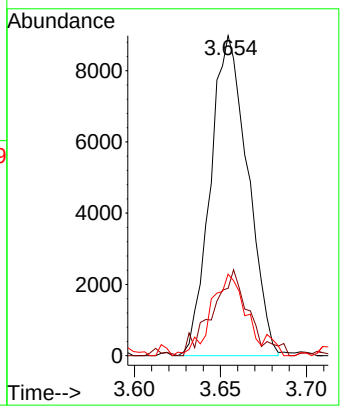


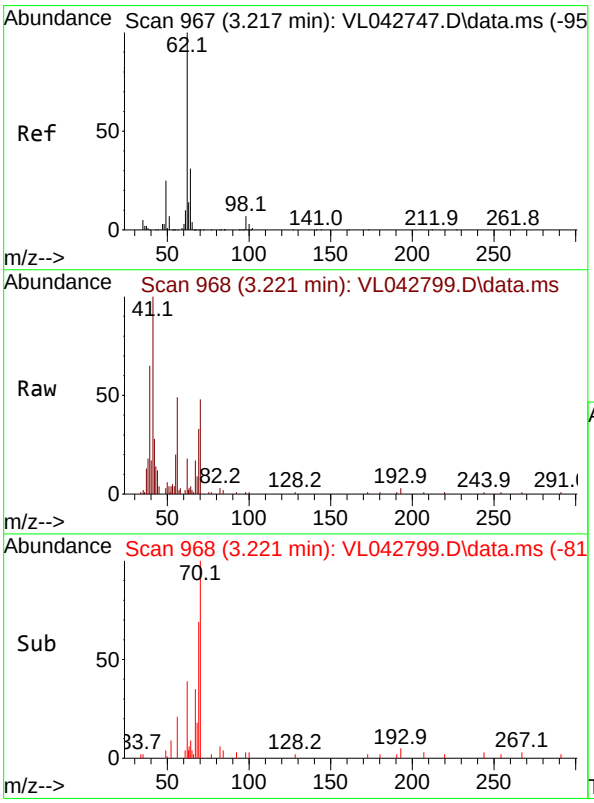
#36
Benzene
Concen: 0.307 ppbv
RT: 3.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 78 Resp: 13550

Ion	Ratio	Lower	Upper
78	100		
77	21.3	18.5	27.7
50	22.6	16.2	24.2

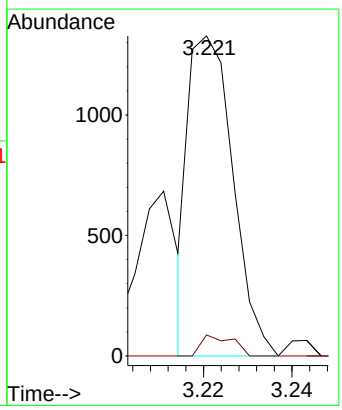


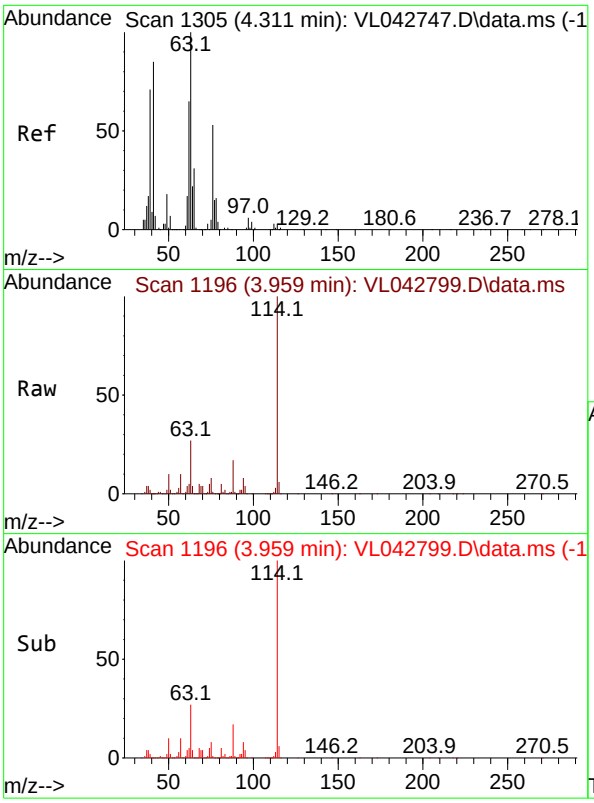


#37
1,2-Dichloroethane
Concen: 0.035 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 62 Resp: 932

Ion	Ratio	Lower	Upper
62	100		
98	4.6	5.2	7.8#



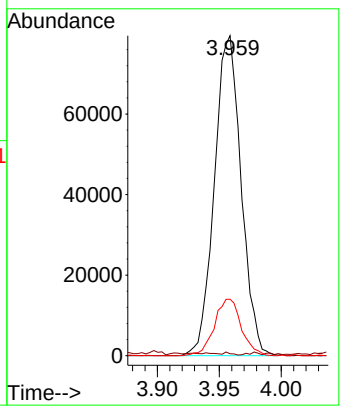


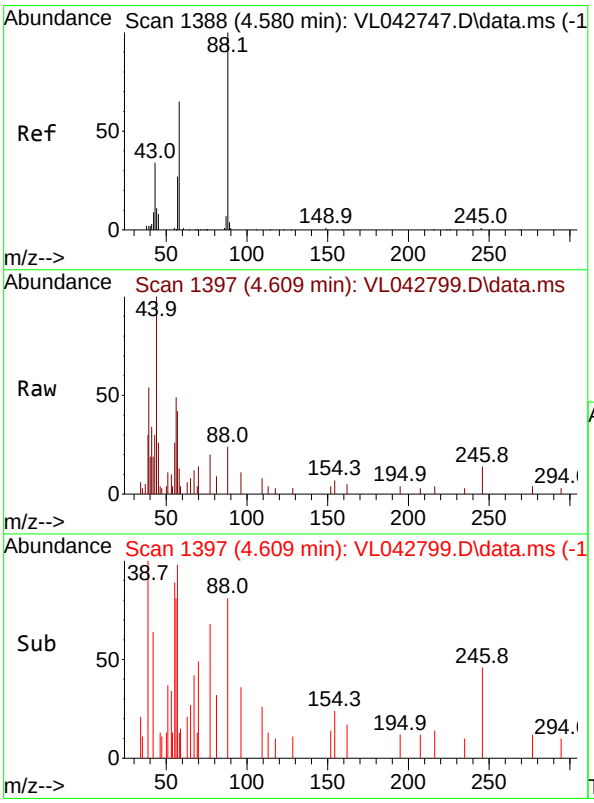
#39
1,2-Dichloropropane
Concen: 7.332 ppbv
RT: 3.959 min Scan# 1
Delta R.T. -0.353 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 63 Resp: 119604

Ion	Ratio	Lower	Upper
63	100		
41	0.4	68.2	102.4#
62	17.7	52.0	78.0#

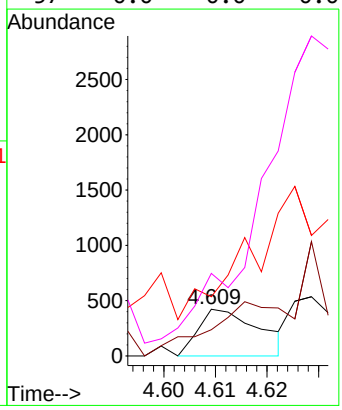


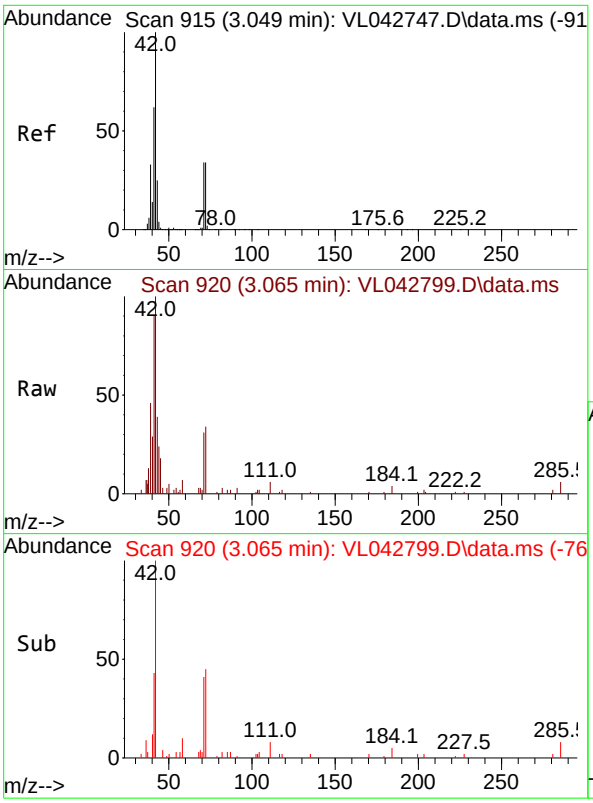


#40
1,4-Dioxane
Concen: 0.045 ppbv
RT: 4.609 min Scan# 1397
Delta R.T. 0.029 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 88 Resp: 344

Ion	Ratio	Lower	Upper
88	100		
58	88.7	58.8	88.2#
43	341.9	28.9	43.3#
57	0.0	0.0	0.0



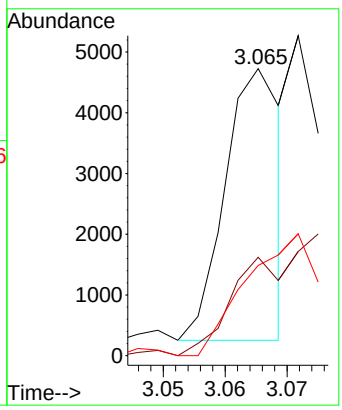


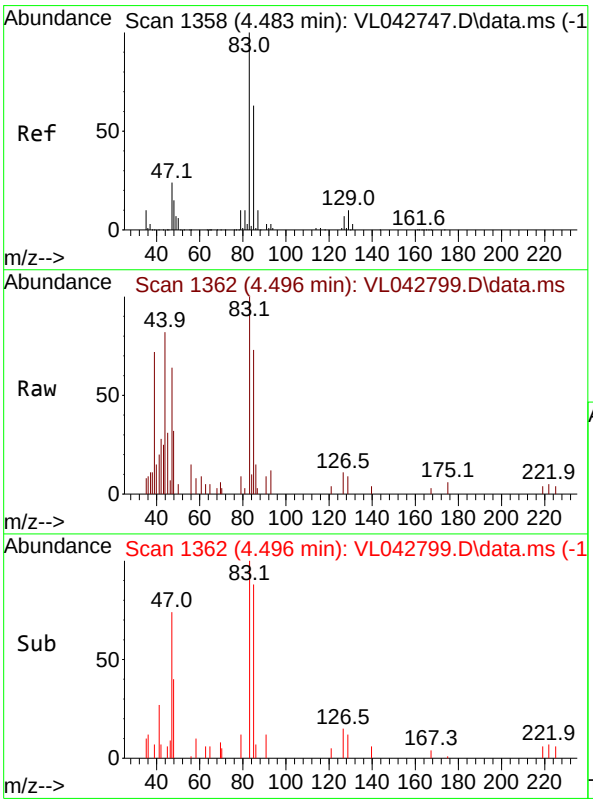
#41
Tetrahydrofuran
Concen: 0.167 ppbv
RT: 3.065 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 42 Resp: 2814

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	0.0	28.6	43.0#

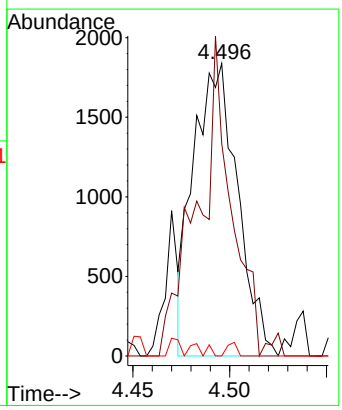


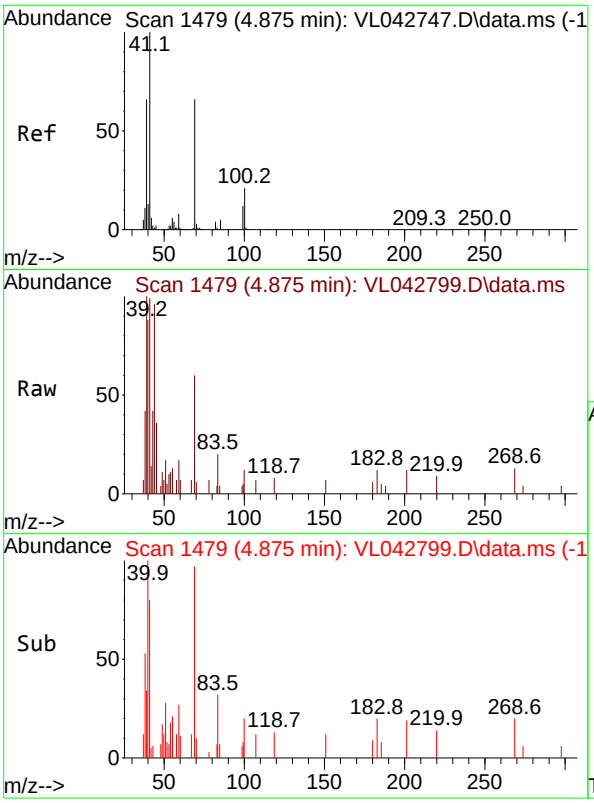


#42
Bromodichloromethane
Concen: 0.084 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.013 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 83 Resp: 2923

Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.2	75.4
127	0.0	5.4	8.2#



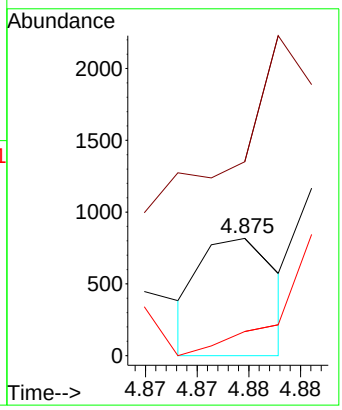


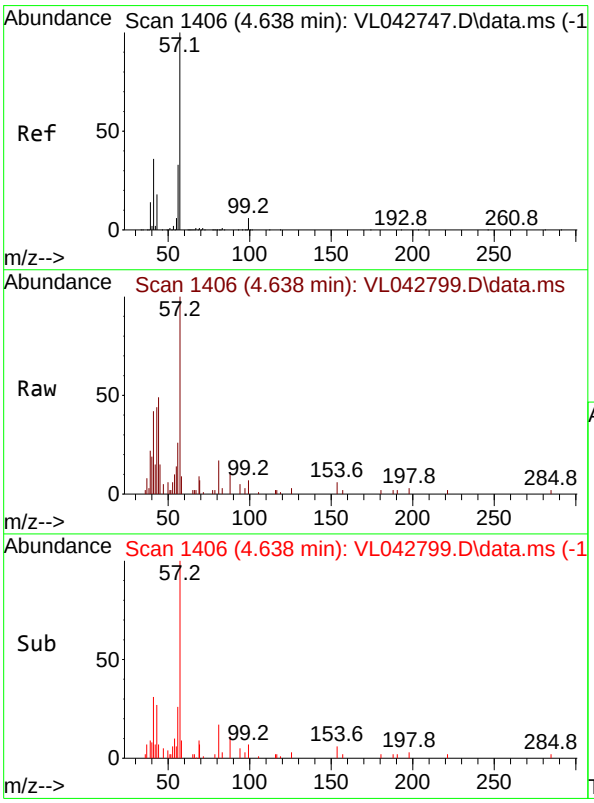
#43
Methyl Methacrylate
Concen: 0.027 ppbv
RT: 4.875 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 69 Resp: 419

Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	0.0	28.6	42.8#

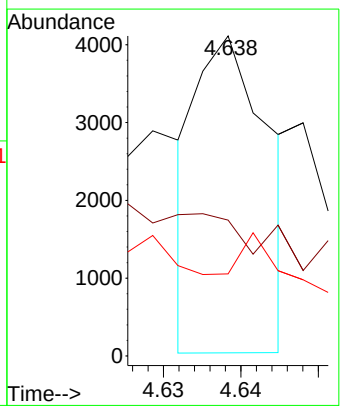


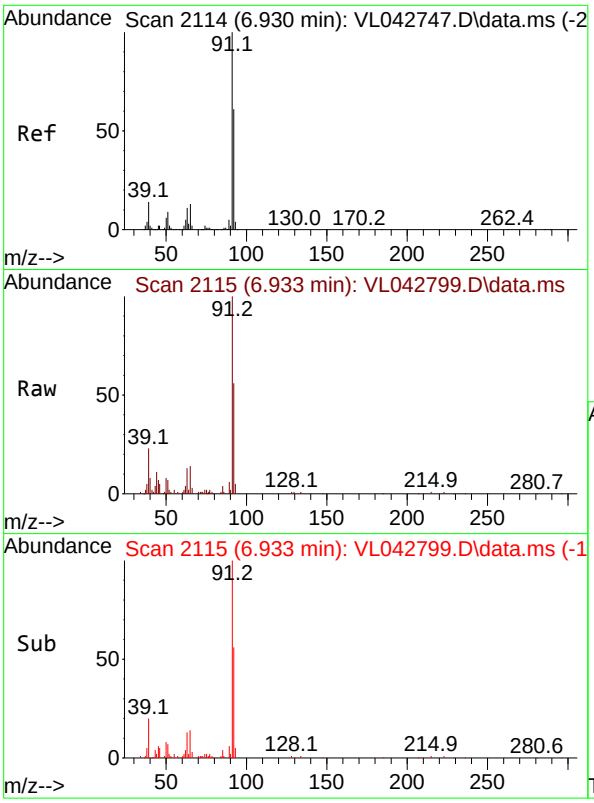


#44
2,2,4-Trimethylpentane
Concen: 0.037 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 57 Resp: 2638

Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.3	42.5#
56	172.9	25.8	38.6#



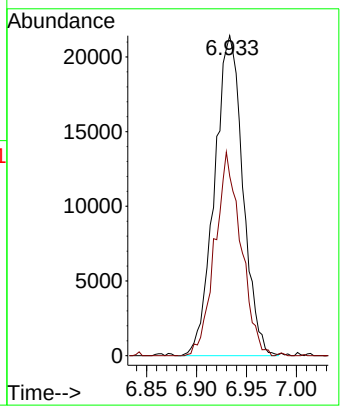


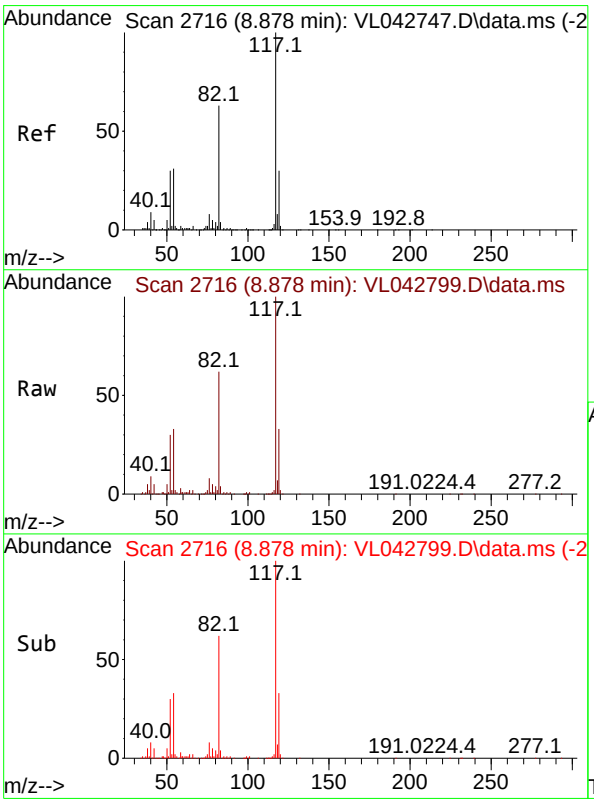
#53
Toluene
Concen: 0.893 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 91 Resp: 42388

Ion	Ratio	Lower	Upper
91	100		
92	58.8	48.0	72.0

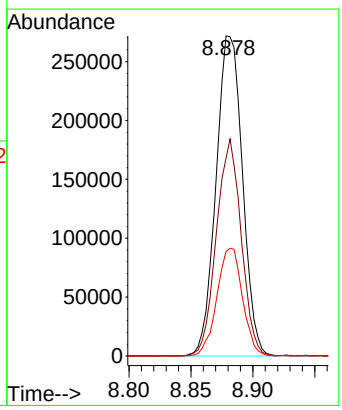


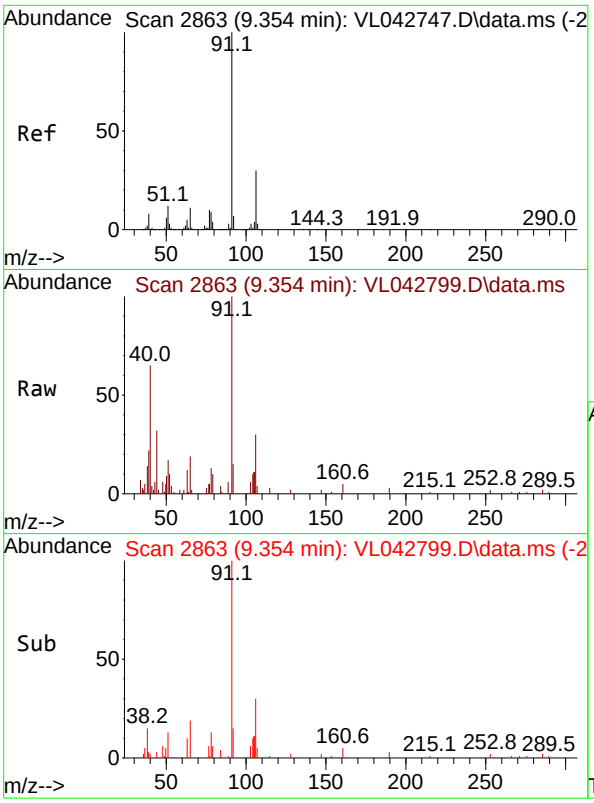


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:117 Resp: 405142

Ion	Ratio	Lower	Upper
117	100		
82	63.6	53.3	79.9
119	32.7	25.8	38.6



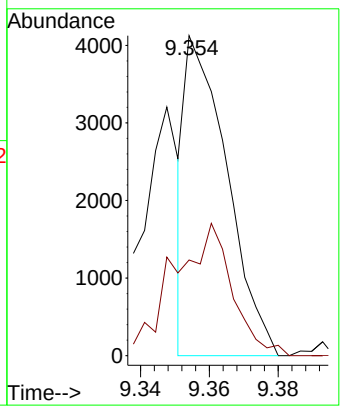


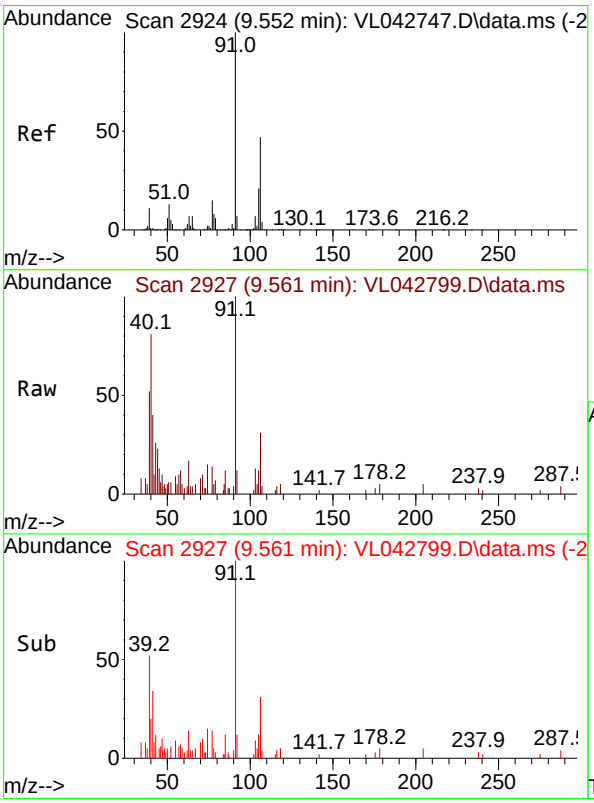
#58
Ethyl Benzene
Concen: 0.055 ppbv
RT: 9.354 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 91 Resp: 3490

Ion	Ratio	Lower	Upper
91	100		
106	26.7	23.8	35.6

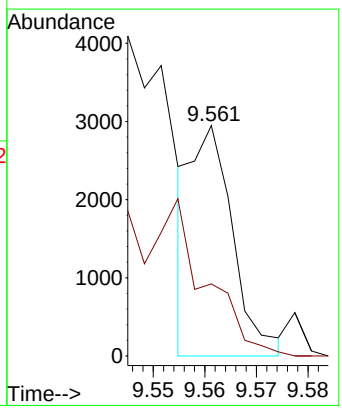


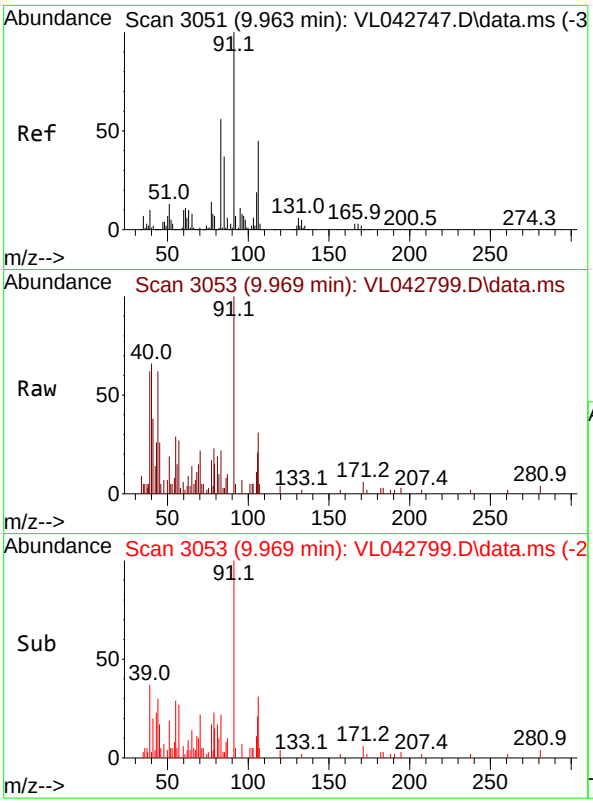


#59
m/p-Xylene
Concen: 0.032 ppbv
RT: 9.561 min Scan# 2927
Delta R.T. 0.010 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 91 Resp: 1661

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#



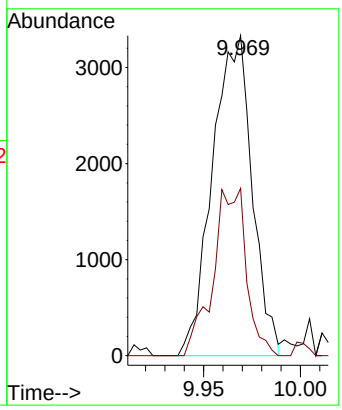


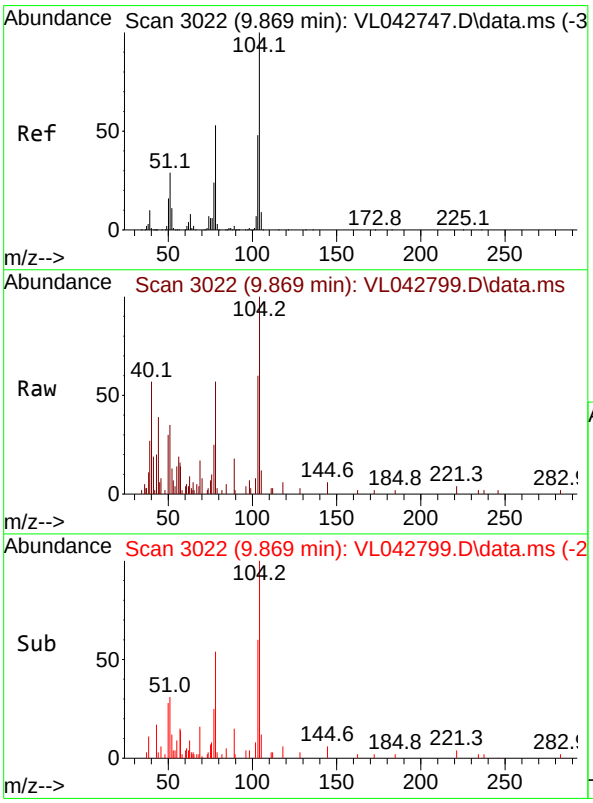
#60
o-Xylene
Concen: 0.093 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 91 Resp: 4755

Ion	Ratio	Lower	Upper
91	100		
106	45.0	22.0	66.0

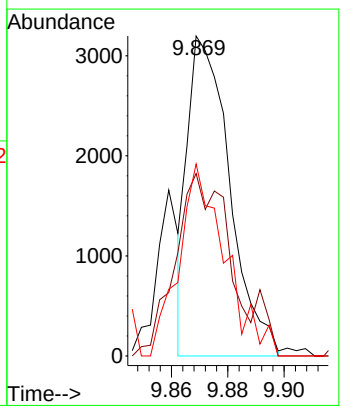


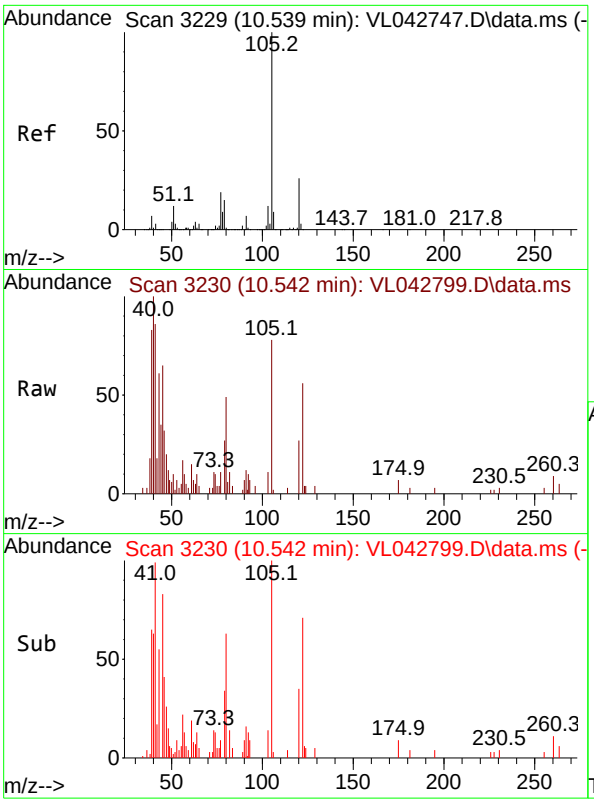


#61
Styrene
Concen: 0.154 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:104 Resp: 3306

Ion	Ratio	Lower	Upper
104	100		
78	77.4	41.5	62.3#
103	69.4	37.5	56.3#



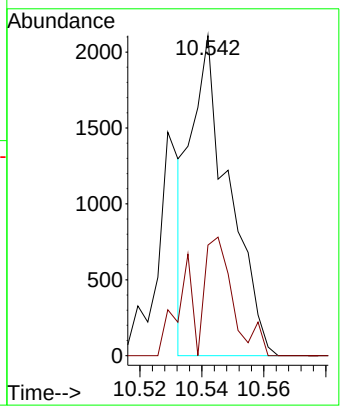


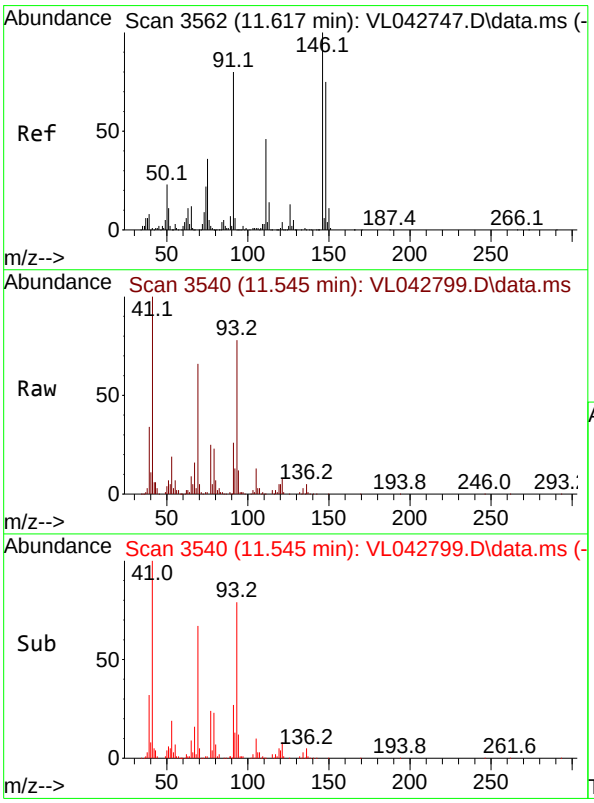
#62
Isopropylbenzene
Concen: 0.024 ppbv
RT: 10.542 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion:105 Resp: 1812

Ion	Ratio	Lower	Upper
105	100		
120	39.8	20.5	30.7#

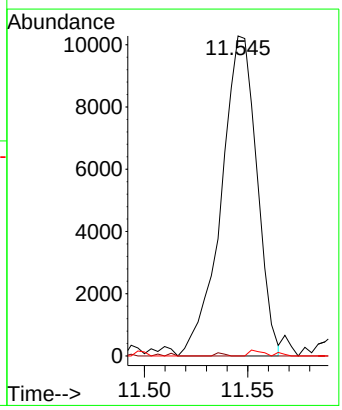


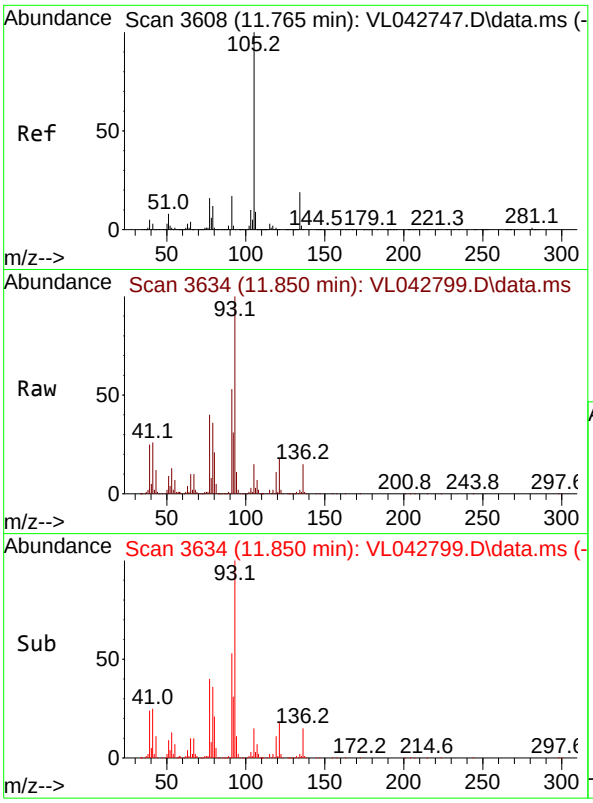


#66
Benzyl Chloride
Concen: 2.249 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.071 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 91 Resp: 12357

Ion	Ratio	Lower	Upper
91	100		
126	0.3	14.4	21.6#
128	0.9	5.2	7.8#



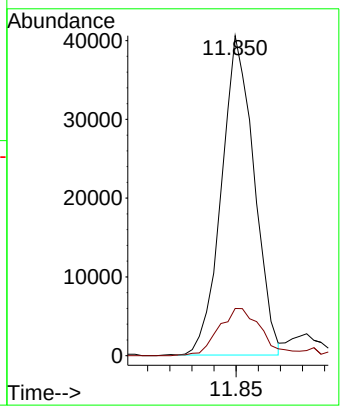


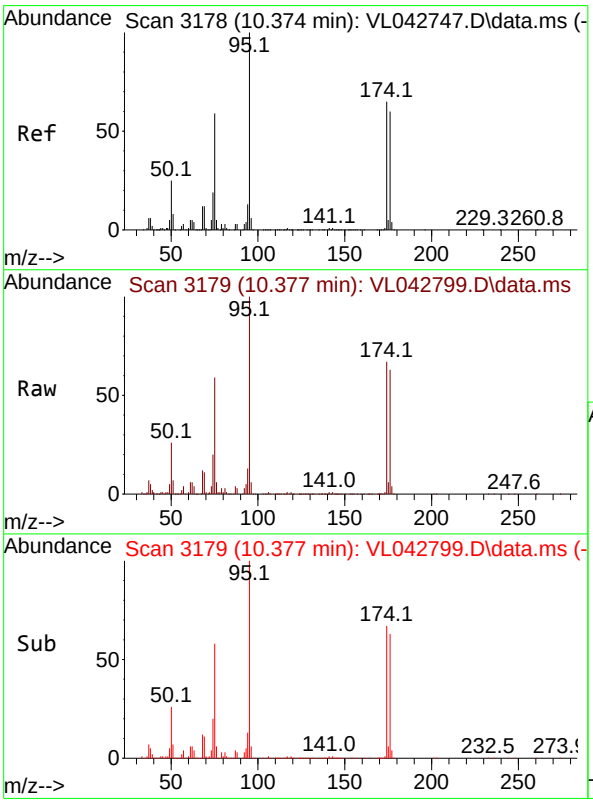
#67
sec-Butylbenzene
Concen: 0.436 ppbv
RT: 11.850 min Scan# 3
Delta R.T. 0.084 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion:105 Resp: 41487

Ion	Ratio	Lower	Upper
105	100		
134	20.7	15.5	23.3

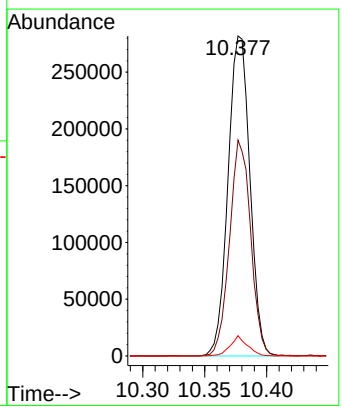


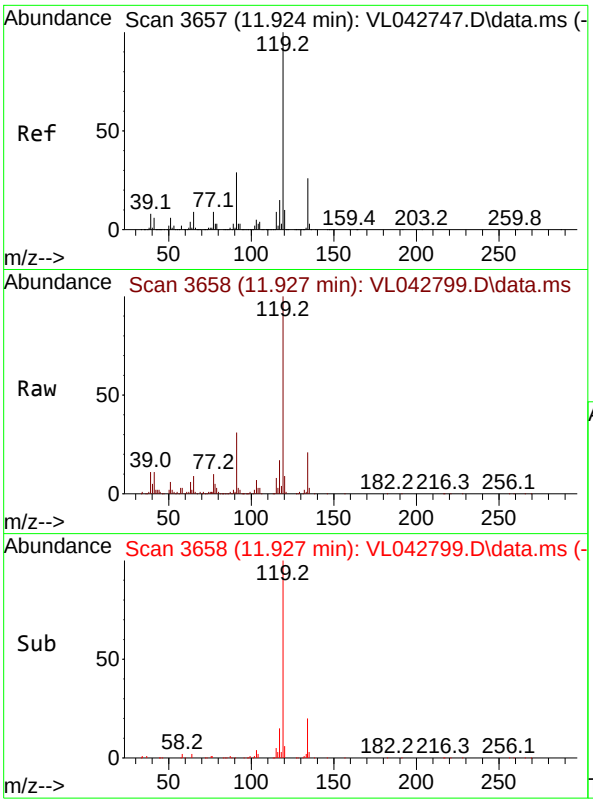


#68
1-Bromo-4-Fluorobenzene
Concen: 10.794 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 95 Resp: 346336

Ion	Ratio	Lower	Upper
95	100		
174	65.4	53.8	80.6
175	5.0	4.0	6.0



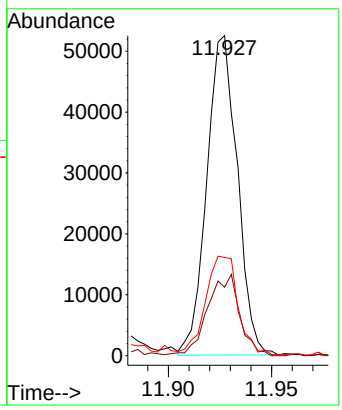


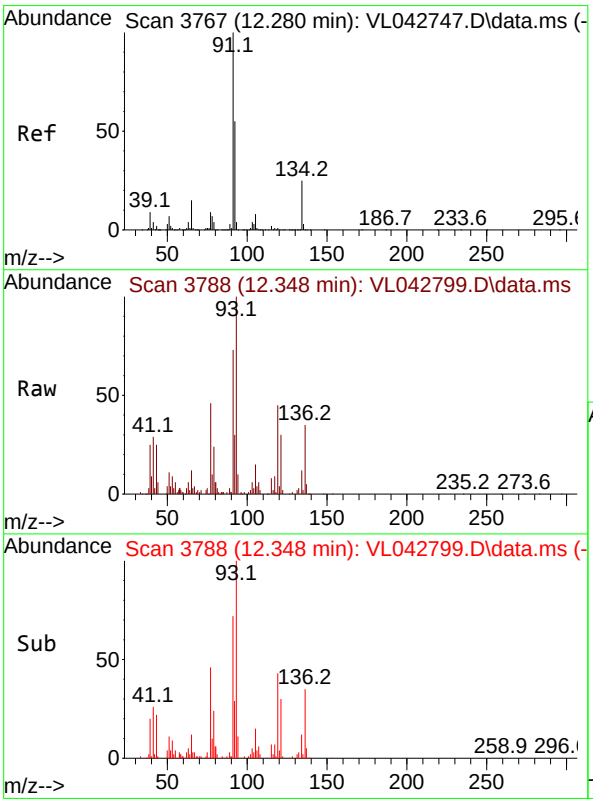
#69
p-Isopropyltoluene
Concen: 0.697 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion:119 Resp: 54078

Ion	Ratio	Lower	Upper
119	100		
134	27.0	20.6	31.0
91	35.3	23.2	34.8#

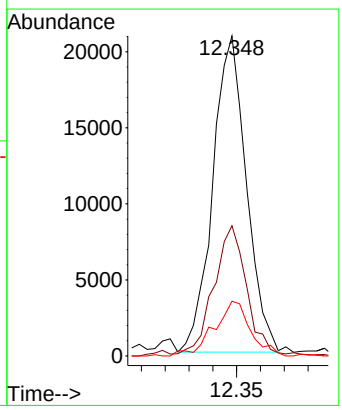


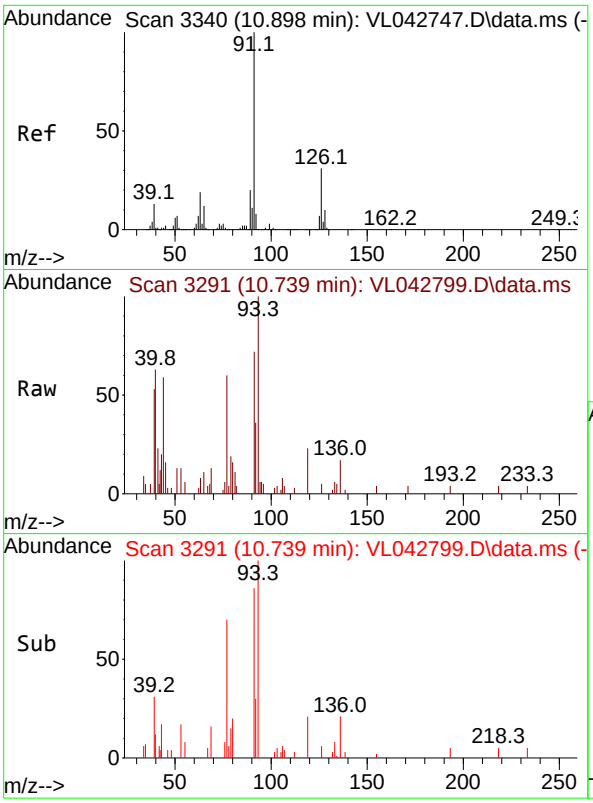


#70
n-Butylbenzene
Concen: 0.272 ppbv
RT: 12.348 min Scan# 3788
Delta R.T. 0.068 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 91 Resp: 20385

Ion	Ratio	Lower	Upper
91	100		
92	41.8	43.4	65.2#
134	19.1	19.6	29.4#



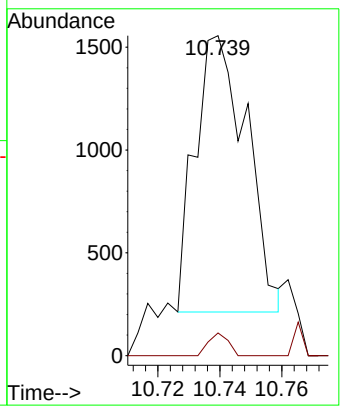


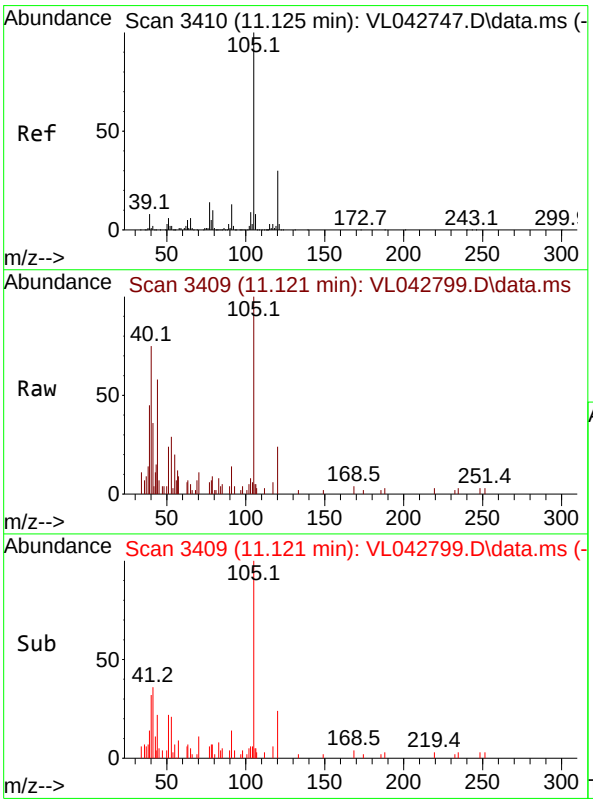
#71
2-Chlorotoluene
Concen: 0.027 ppbv
RT: 10.739 min Scan# 3
Delta R.T. -0.159 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 91 Resp: 1555

Ion	Ratio	Lower	Upper
91	100		
126	14.5	12.0	48.2

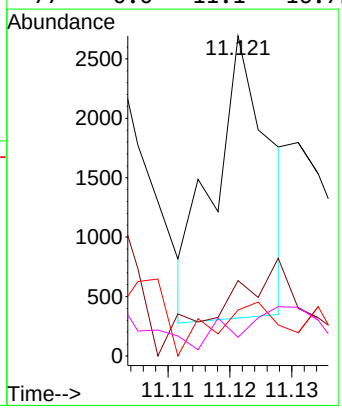


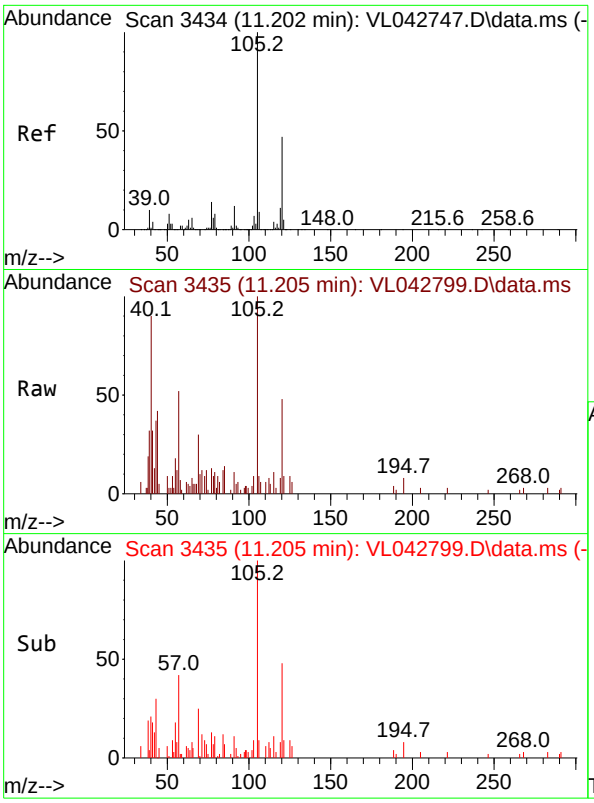


#72
4-Ethyltoluene
Concen: 0.024 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:105 Resp: 1455

Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.4	36.6#
91	0.0	10.6	15.8#
77	0.0	11.1	16.7#



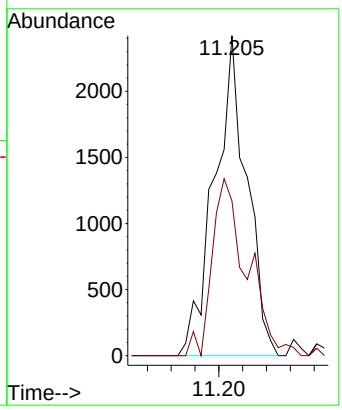


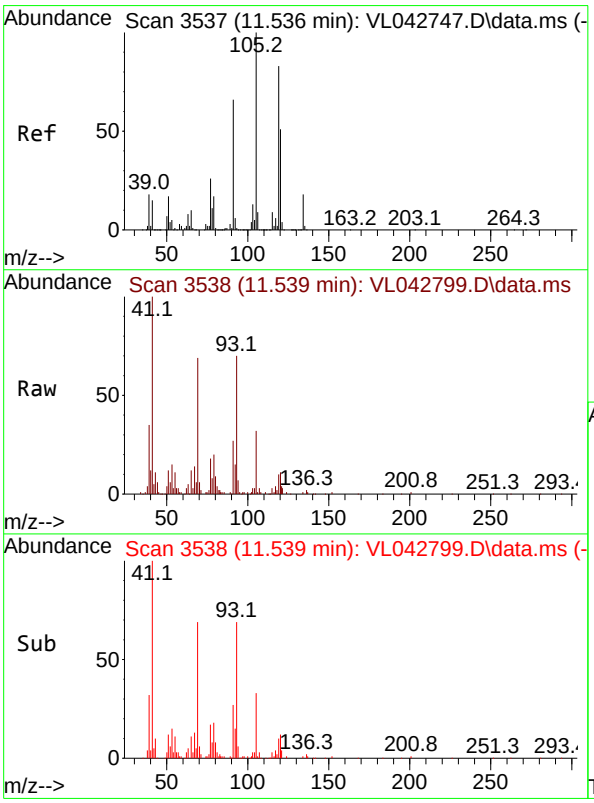
#73
1,3,5-Trimethylbenzene
Concen: 0.045 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion:105 Resp: 2278

Ion	Ratio	Lower	Upper
105	100		
120	48.4	37.8	56.8

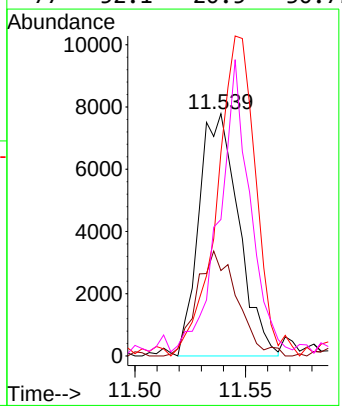


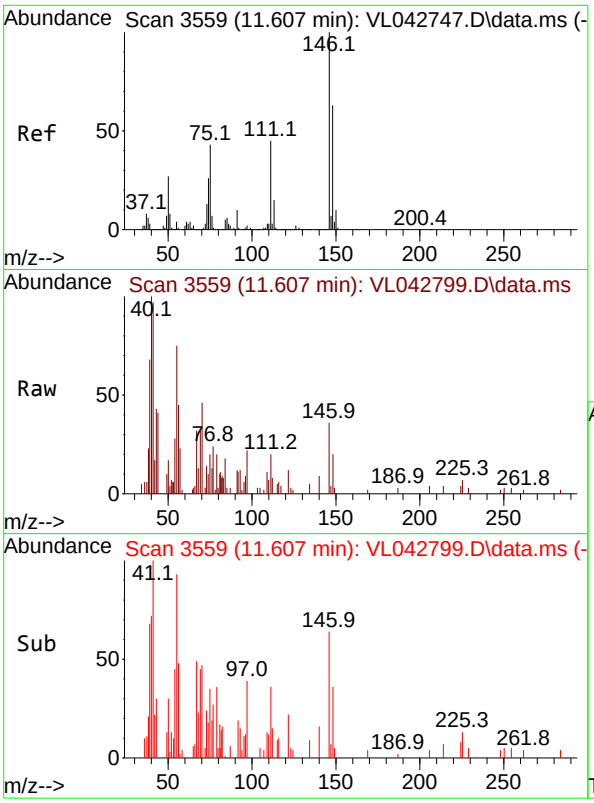


#74
1,2,4-Trimethylbenzene
Concen: 0.178 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:105 Resp: 9738

Ion	Ratio	Lower	Upper
105	100		
120	44.3	40.8	61.2
91	80.9	53.0	79.4#
77	52.1	20.5	30.7#



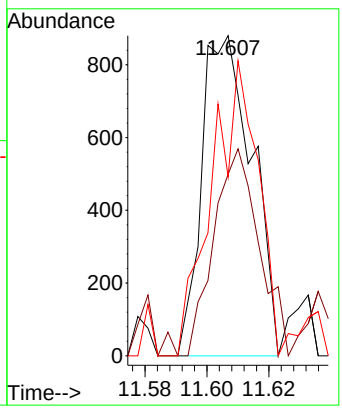


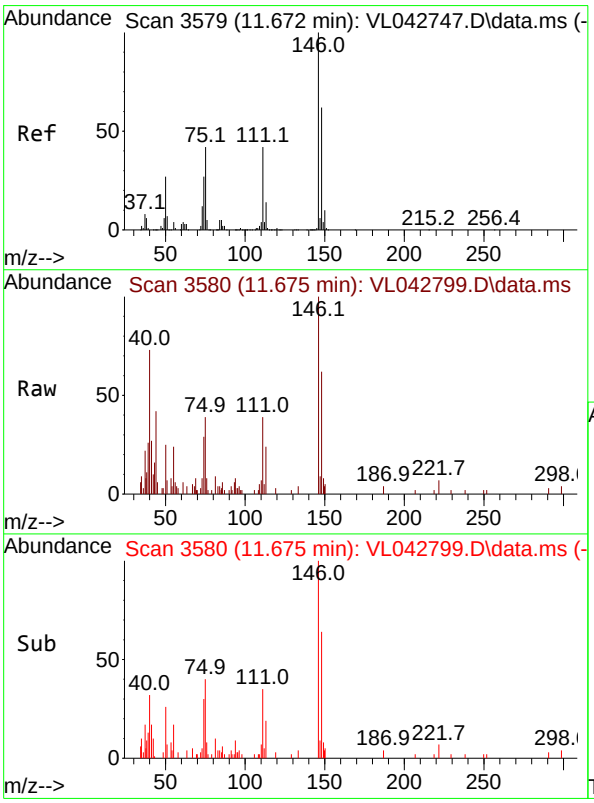
#75
1,3-Dichlorobenzene
Concen: 0.026 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion:146 Resp: 994

Ion	Ratio	Lower	Upper
146	100		
111	62.4	22.7	68.0
148	93.8	31.9	95.5

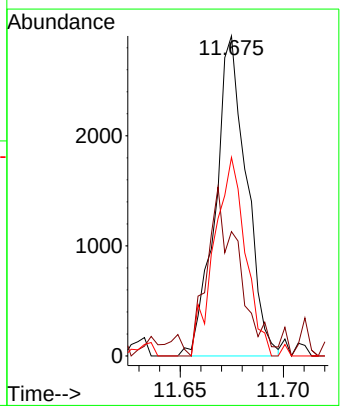


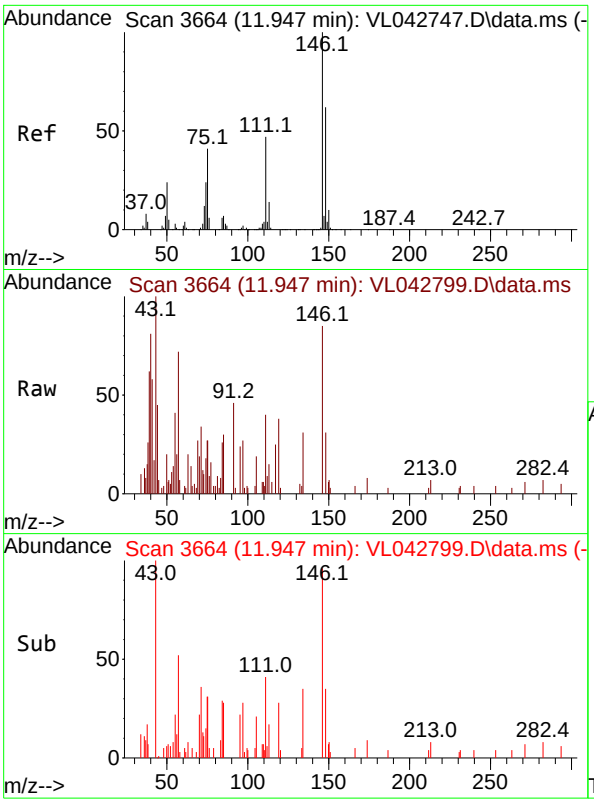


#76
1,4-Dichlorobenzene
Concen: 0.081 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:146 Resp: 3042

Ion	Ratio	Lower	Upper
146	100		
111	66.2	21.4	64.2#
148	63.3	32.1	96.3



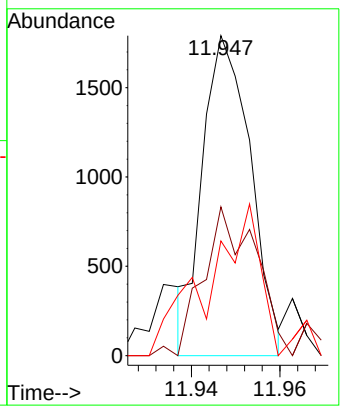


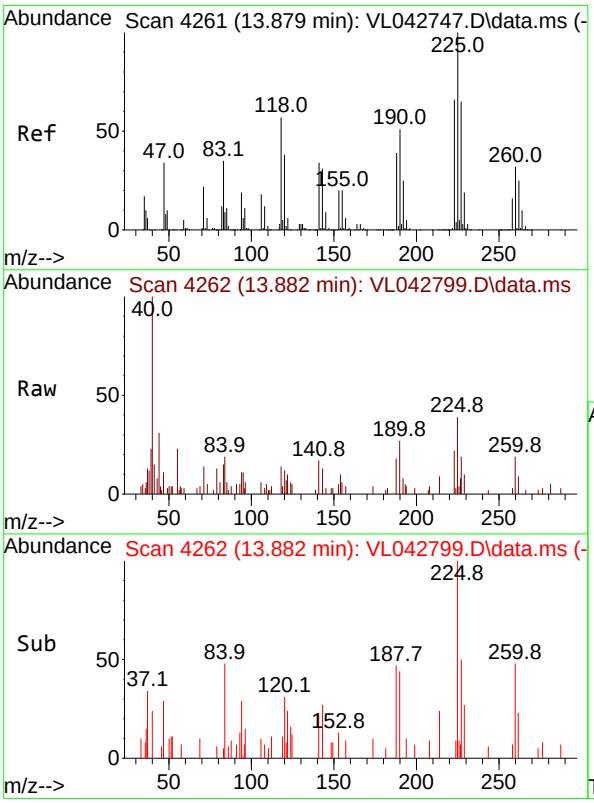
#77
1,2-Dichlorobenzene
Concen: 0.036 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion:146 Resp: 1343

Ion	Ratio	Lower	Upper
146	100		
111	68.8	23.7	71.1
148	56.3	32.6	97.7

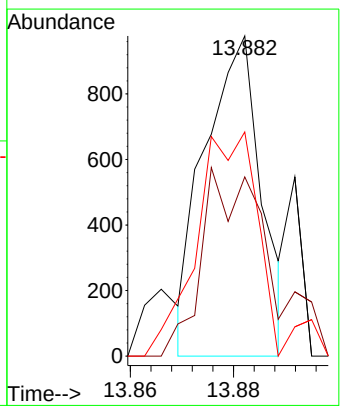


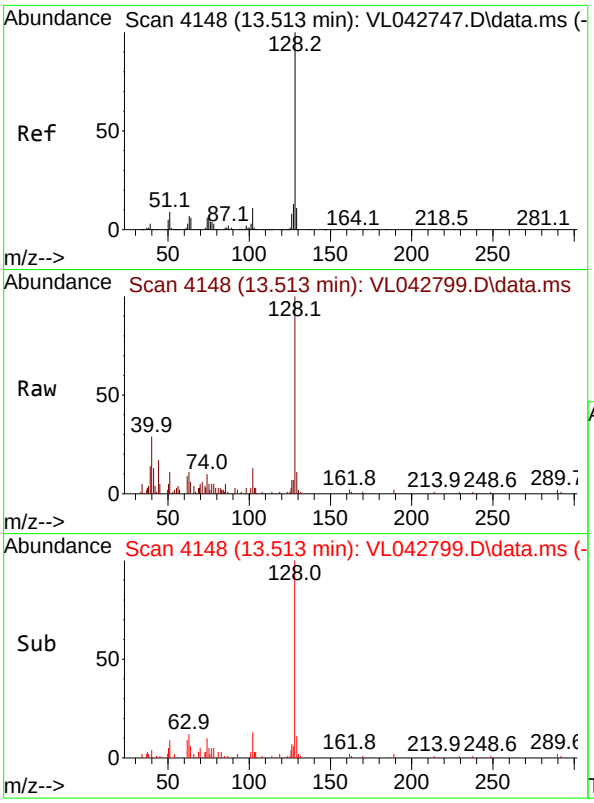


#78
Hexachloro-1,3-Butadiene
Concen: 0.022 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:225 Resp: 746

Ion	Ratio	Lower	Upper
225	100		
223	69.3	50.7	76.1
227	81.0	50.5	75.7#



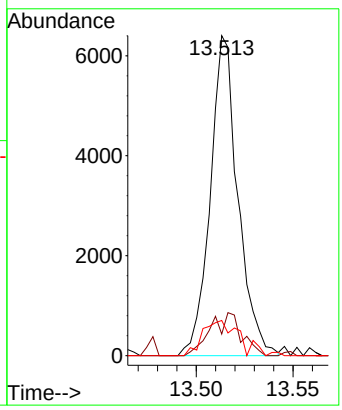


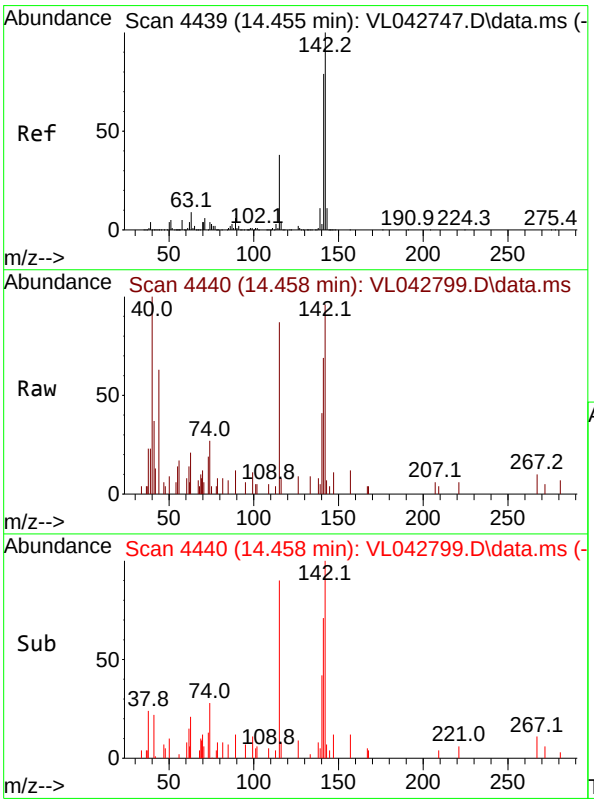
#79
Naphthalene
Concen: 0.537 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion:128 Resp: 6363

Ion	Ratio	Lower	Upper
128	100		
127	6.8	10.5	15.7#
129	11.0	8.6	13.0

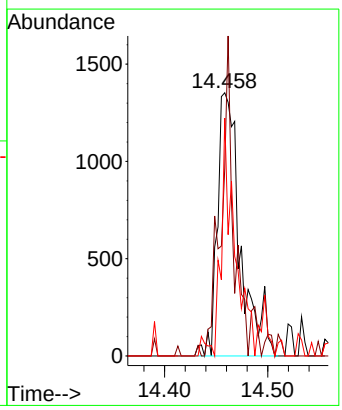


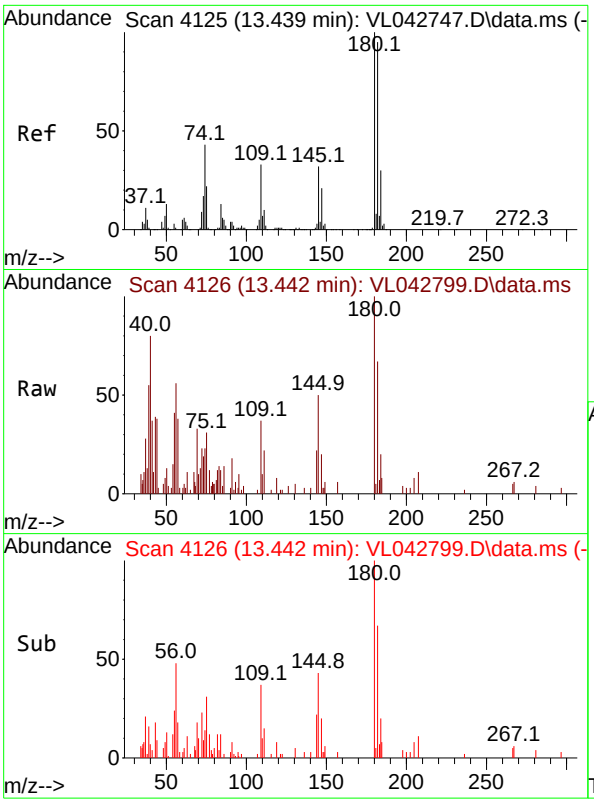


#80
Naphthalene,2-methyl-
Concen: 1.191 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:142 Resp: 2085

Ion	Ratio	Lower	Upper
142	100		
141	73.8	65.8	98.8
115	63.7	31.2	46.8#



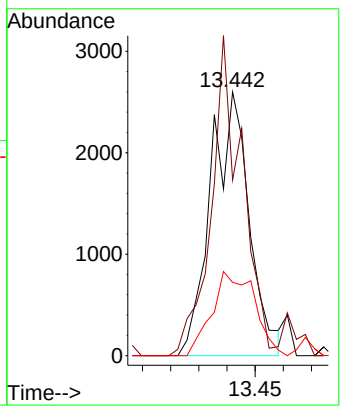


#81
1,2,4-Trichlorobenzene
Concen: 0.506 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion:180 Resp: 2468

Ion	Ratio	Lower	Upper
180	100		
182	104.7	76.2	114.2
184	37.6	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042800.D
Acq On : 04 Aug 2025 12:23
Operator : SY/MD
Sample : Q2750-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Quant Time: Aug 05 01:02:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	171645	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	484996	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	419893	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	351197	10.561	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	12466	0.549	ppbv		99
3) Chlorodifluoromethane	1.473	51	1678405	56.774	ppbv	#	79
4) Chloromethane	1.531	50	70791	7.710	ppbv		99
5) Vinyl Chloride	1.486	62	995	0.110	ppbv	#	69
6) Bromomethane	1.664	94	290	0.083	ppbv	#	39
7) Chloroethane	1.703	64	427	0.122	ppbv		94
8) Dichlorotetrafluoroethane	1.496	85	12466	0.668	ppbv	#	21
9) Propene	1.557	41	568807	52.939	ppbv		97
10) Heptane	4.975	43	1300	0.045	ppbv	#	1
11) Trichlorofluoromethane	1.874	101	4766	0.204	ppbv		89
12) 1,1,2-Trichlorotrifluo...	2.133	101	1280	0.072	ppbv		83
13) Ethanol	1.726	45	4743135	6061.609	ppbv		93
15) Acetone	1.832	43	2271716	95.847	ppbv	#	77
16) 1,3-Butadiene	1.557	39	277218	27.421	ppbv	#	16
17) tert-Butyl alcohol	1.991	59	8717102	407.793	ppbv		97
19) Isopropyl Alcohol	1.971	45	22213534	1763.643	ppbv	#	38
20) Methylene Chloride	2.062	84	16776	2.246	ppbv		87
21) Allyl Chloride	1.991	41	13684692	936.822	ppbv	#	78
23) Vinyl Acetate	2.460	43	57901	2.015	ppbv	#	93
24) 1,1-Dichloroethane	2.787	63	948	0.053	ppbv	#	87
25) Ethyl Acetate	2.842	43	274303	5.229	ppbv	#	62
26) Hexane	2.823	57	42707	1.856	ppbv	#	1
27) Carbon Disulfide	2.146	76	67073	3.404	ppbv	#	65
28) Methyl tert-Butyl Ether	2.438	73	392	0.036	ppbv	#	50
29) Chloroform	2.849	83	28648	0.806	ppbv		88
30) Cyclohexane	3.852	84	1252	0.064	ppbv	#	1
31) cis-1,2-Dichloroethene	2.839	61	29160	1.233	ppbv	#	23
34) 2-Butanone	2.564	43	55250	1.608	ppbv		93
35) Carbon Tetrachloride	3.755	117	2193	0.061	ppbv	#	71
36) Benzene	3.651	78	12369	0.269	ppbv		98
37) 1,2-Dichloroethane	3.214	62	562	0.020	ppbv	#	81
39) 1,2-Dichloropropane	3.956	63	118364	6.976	ppbv	#	21
41) Tetrahydrofuran	3.065	42	5352	0.306	ppbv	#	62
42) Bromodichloromethane	4.480	83	1968	0.055	ppbv	#	96
43) Methyl Methacrylate	4.872	69	603	0.037	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.632	57	1822	0.024	ppbv	#	1
53) Toluene	6.927	91	40915	0.829	ppbv		95
58) Ethyl Benzene	9.357	91	1993	0.030	ppbv		93
59) m/p-Xylene	9.529	91	11454	0.216	ppbv	#	86
60) o-Xylene	9.529	91	11454	0.216	ppbv		81
61) Styrene	9.869	104	4865	0.218	ppbv		93
66) Benzyl Chloride	11.545	91	10725	1.883	ppbv	#	65
67) sec-Butylbenzene	11.850	105	41671	0.422	ppbv		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042800.D
Acq On : 04 Aug 2025 12:23
Operator : SY/MD
Sample : Q2750-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Quant Time: Aug 05 01:02:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

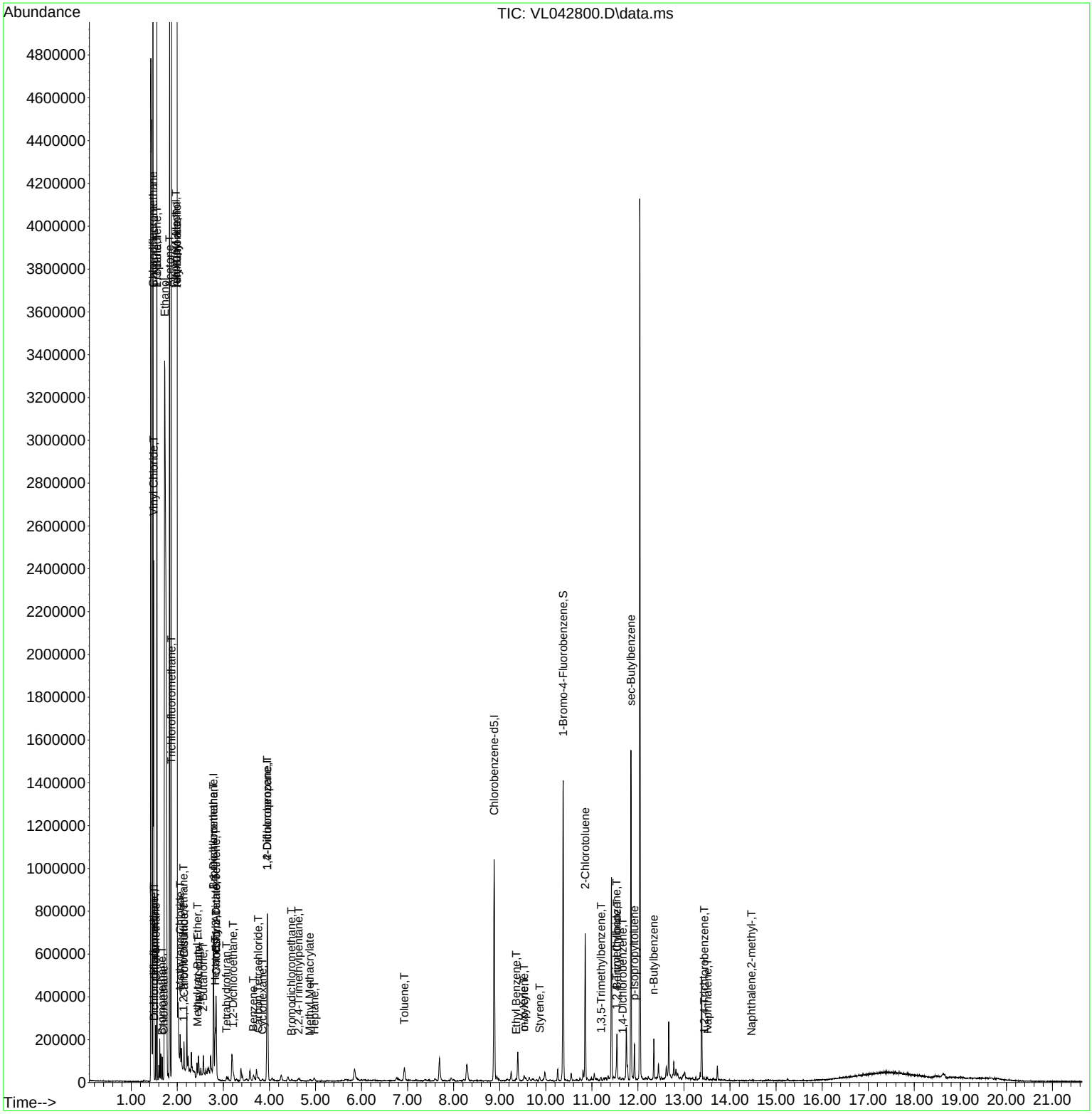
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
69) p-Isopropyltoluene	11.924	119	54508	0.677	ppbv		95
70) n-Butylbenzene	12.345	91	20299	0.261	ppbv	#	86
71) 2-Chlorotoluene	10.856	91	81049	1.353	ppbv	#	45
73) 1,3,5-Trimethylbenzene	11.202	105	1173	0.023	ppbv	#	68
74) 1,2,4-Trimethylbenzene	11.536	105	8507	0.150	ppbv	#	75
76) 1,4-Dichlorobenzene	11.668	146	1965	0.050	ppbv	#	62
79) Naphthalene	13.513	128	2980	0.481	ppbv	#	93
80) Naphthalene,2-methyl-	14.468	142	600	1.146	ppbv	#	93
81) 1,2,4-Trichlorobenzene	13.442	180	294	0.443	ppbv	#	1

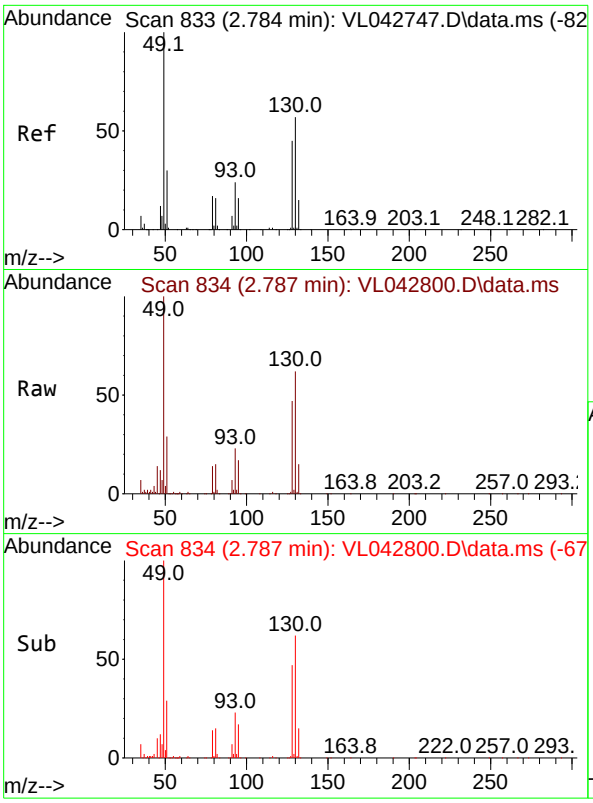
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042800.D
Acq On : 04 Aug 2025 12:23
Operator : SY/MD
Sample : Q2750-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Quant Time: Aug 05 01:02:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



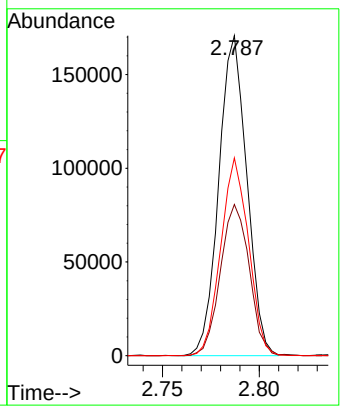


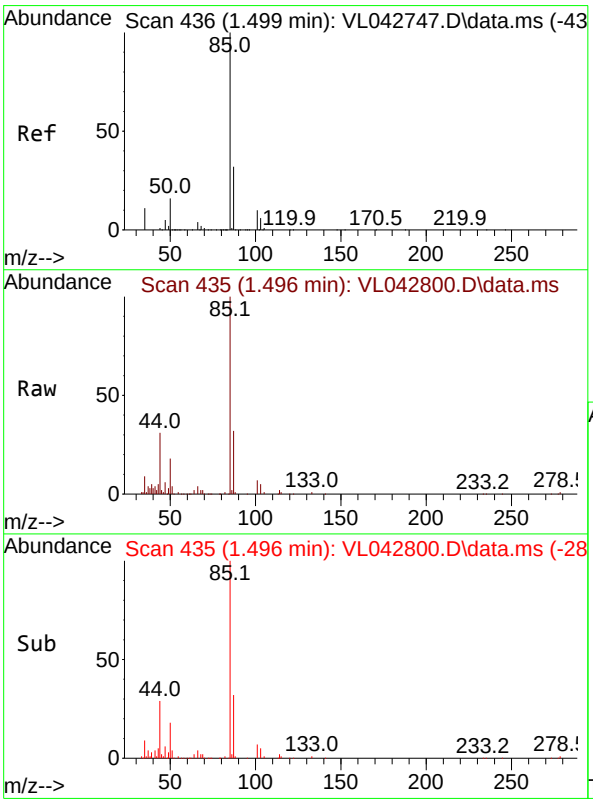
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 49 Resp: 171645

Ion	Ratio	Lower	Upper
49	100		
128	48.8	23.6	71.0
130	61.1	30.3	90.8

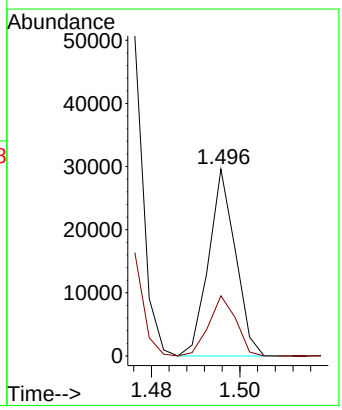


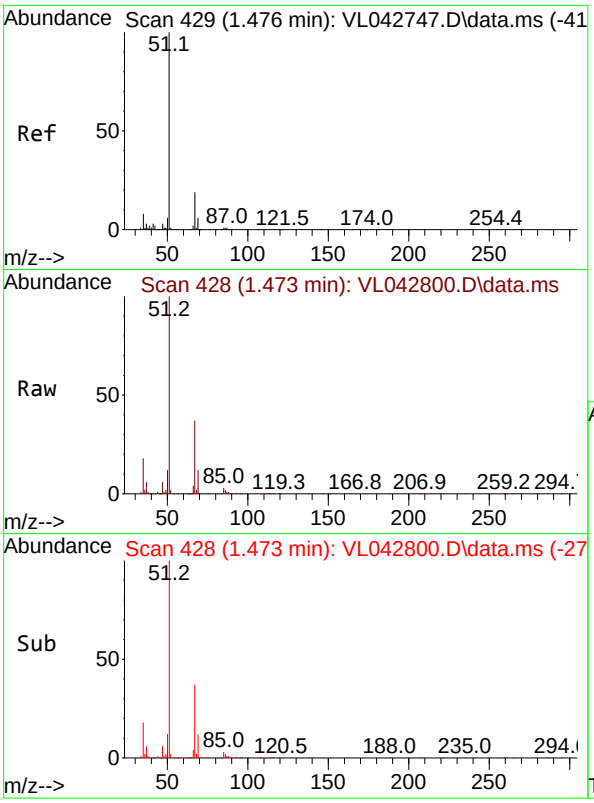


#2
Dichlorodifluoromethane
Concen: 0.549 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 85 Resp: 12466

Ion	Ratio	Lower	Upper
85	100		
87	32.2	25.4	38.2



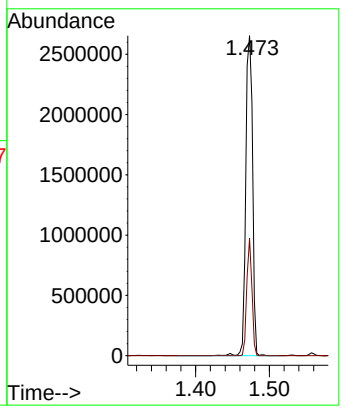


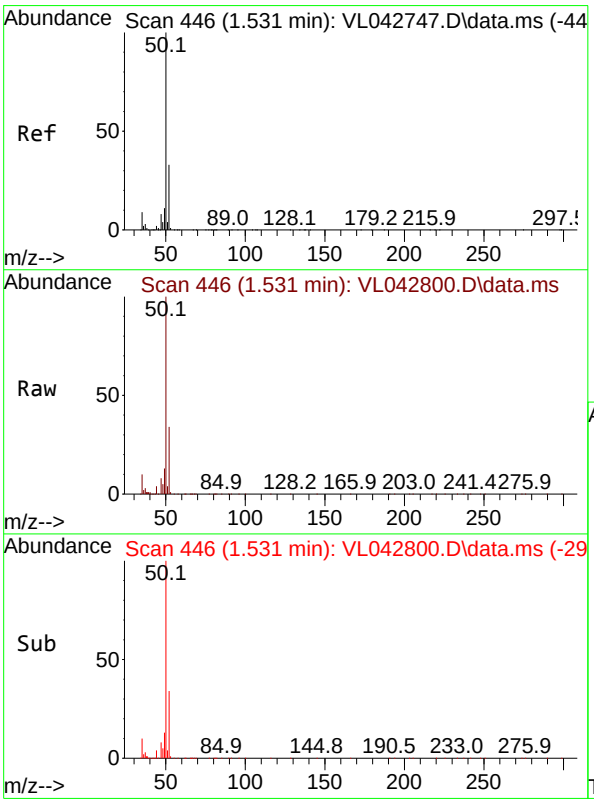
#3
Chlorodifluoromethane
Concen: 56.774 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 51 Resp: 1678405

Ion	Ratio	Lower	Upper
51	100		
67	28.1	15.0	22.6#

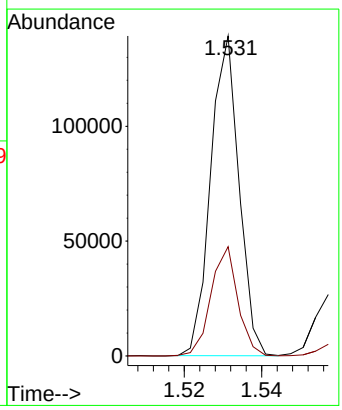


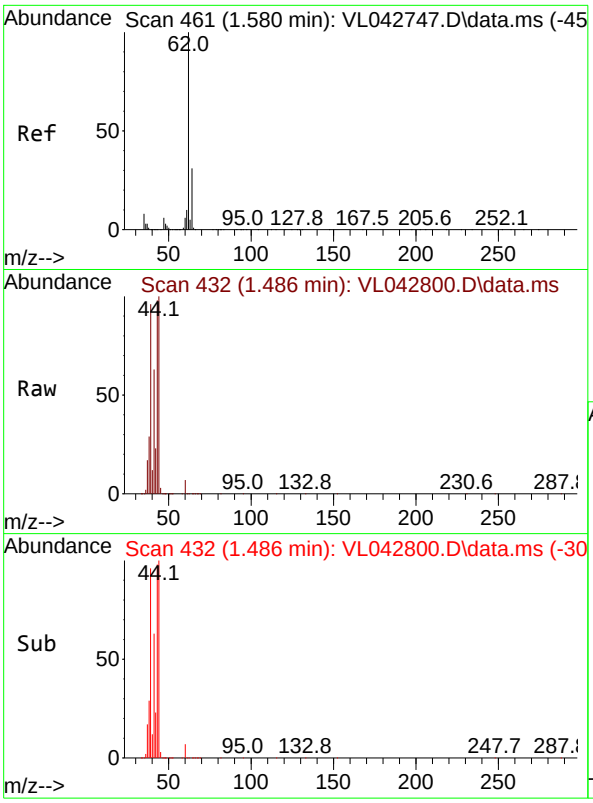


#4
Chloromethane
Concen: 7.710 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 50 Resp: 70791

Ion	Ratio	Lower	Upper
50	100		
52	34.1	26.6	40.0



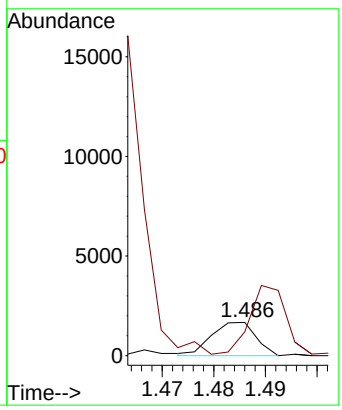


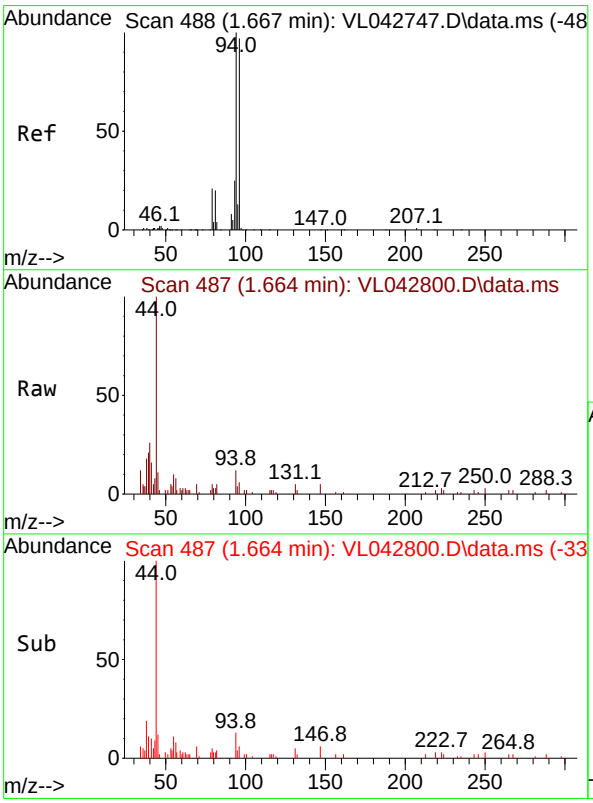
#5
Vinyl Chloride
Concen: 0.110 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.094 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 62 Resp: 995

Ion	Ratio	Lower	Upper
62	100		
64	47.7	24.5	36.7#

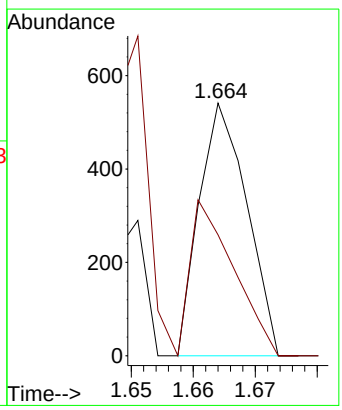


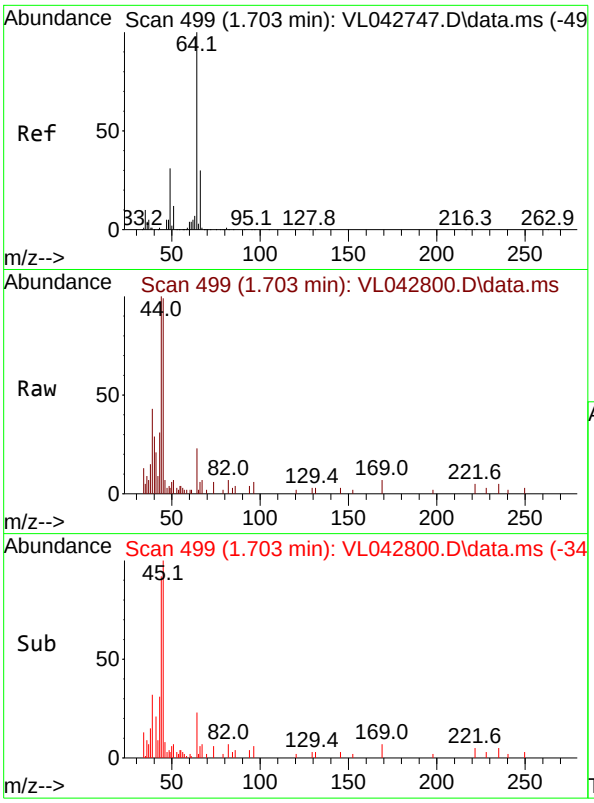


#6
Bromomethane
Concen: 0.083 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 94 Resp: 290

Ion	Ratio	Lower	Upper
94	100		
96	36.7	77.6	116.4#



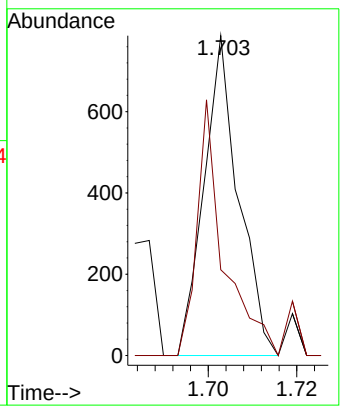


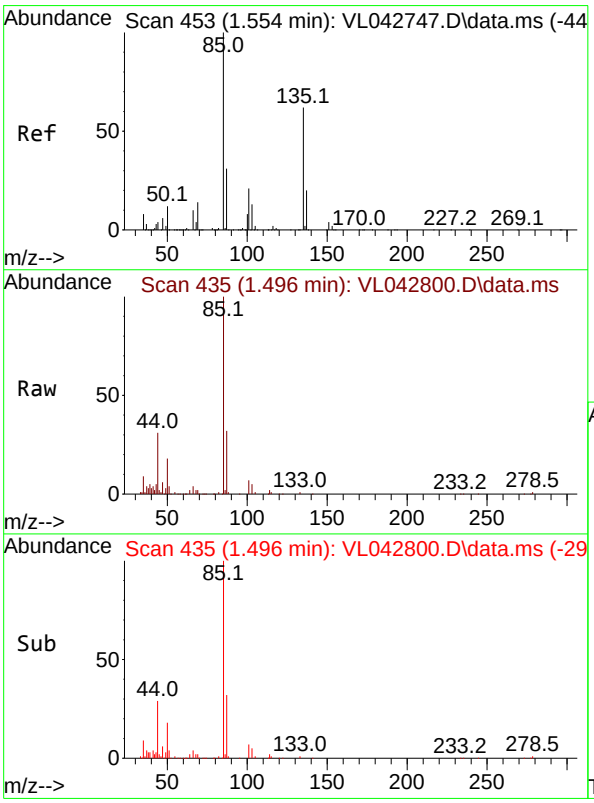
#7
Chloroethane
Concen: 0.122 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 64 Resp: 427

Ion	Ratio	Lower	Upper
64	100		
66	26.8	24.1	36.1

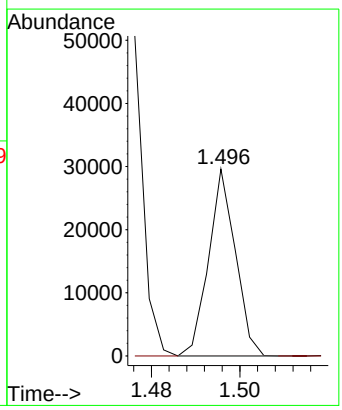


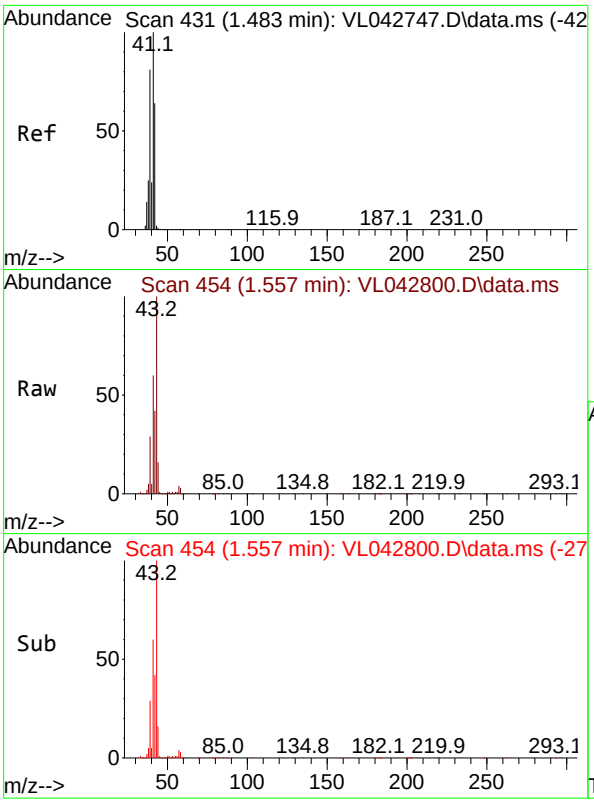


#8
Dichlorotetrafluoroethane
Concen: 0.668 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.058 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 85 Resp: 12466

Ion	Ratio	Lower	Upper
85	100		
135	1.7	50.6	76.0#



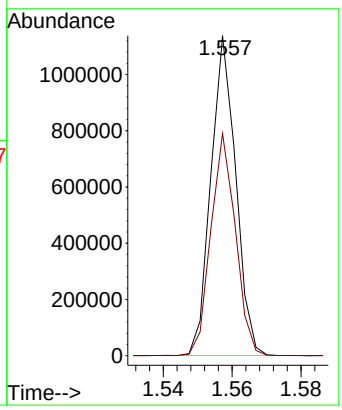


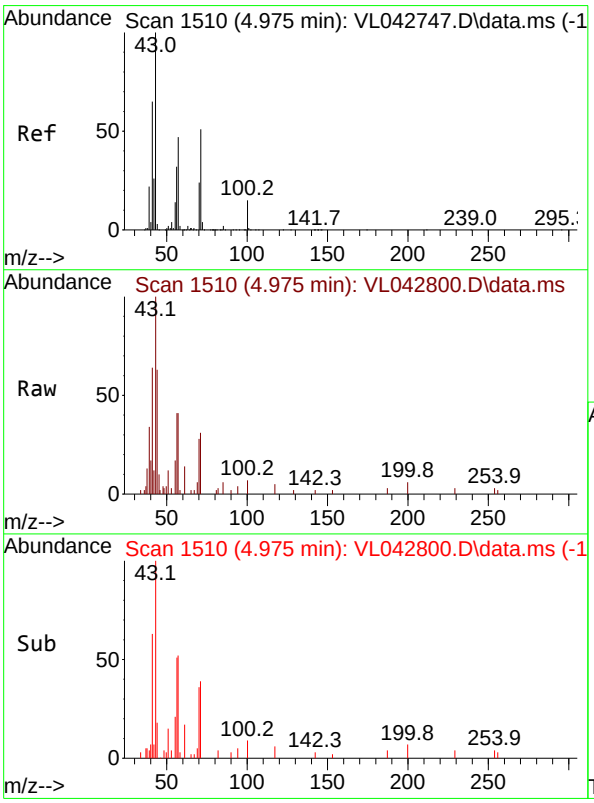
#9
Propene
Concen: 52.939 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.075 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 41 Resp: 568807

Ion	Ratio	Lower	Upper
41	100		
42	69.0	53.2	79.8

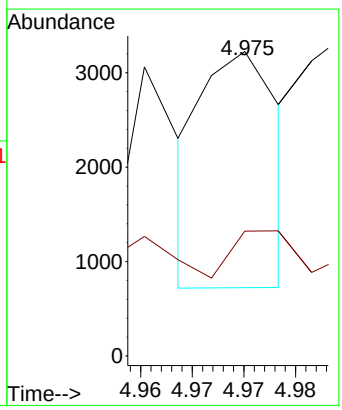


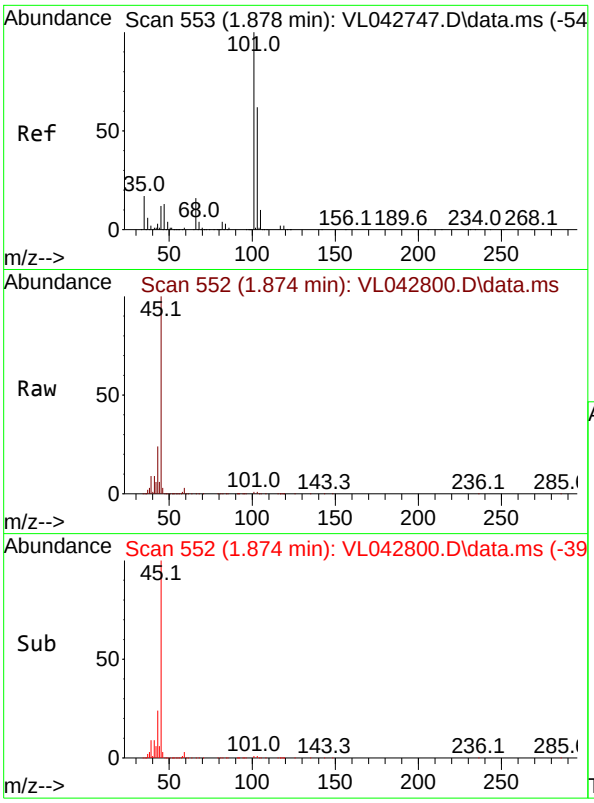


#10
Heptane
Concen: 0.045 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 43 Resp: 1300

Ion	Ratio	Lower	Upper
43	100		
57	219.5	39.9	59.9#



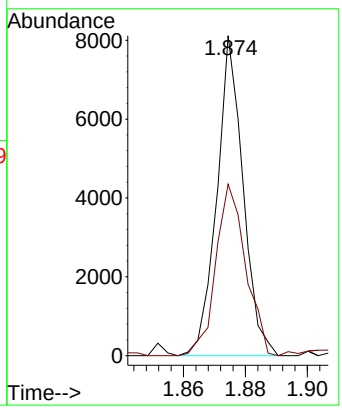


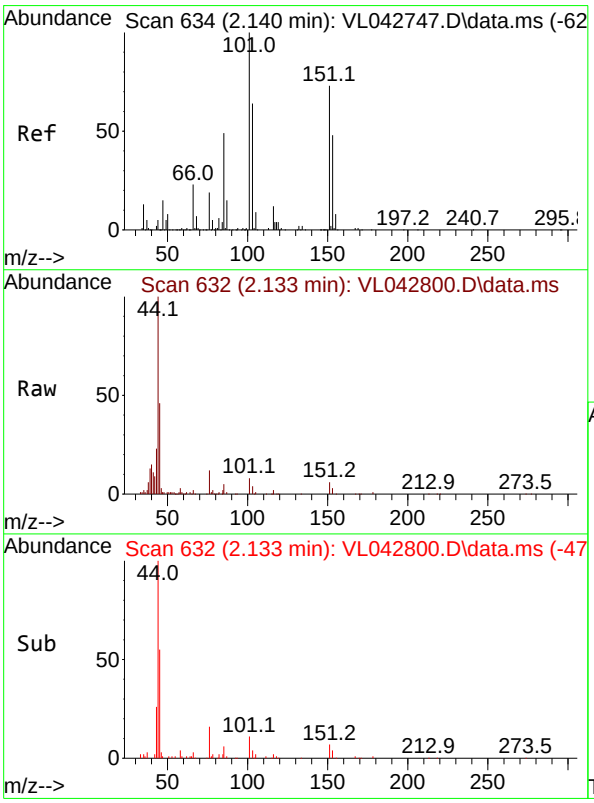
#11
Trichlorofluoromethane
Concen: 0.204 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion:101 Resp: 4766

Ion	Ratio	Lower	Upper
101	100		
103	53.6	49.6	74.4

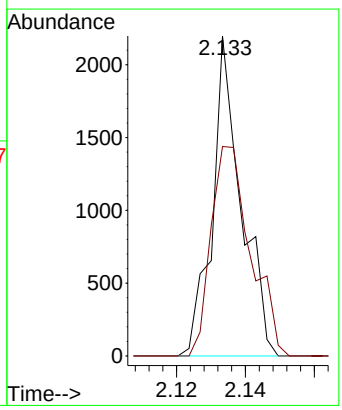


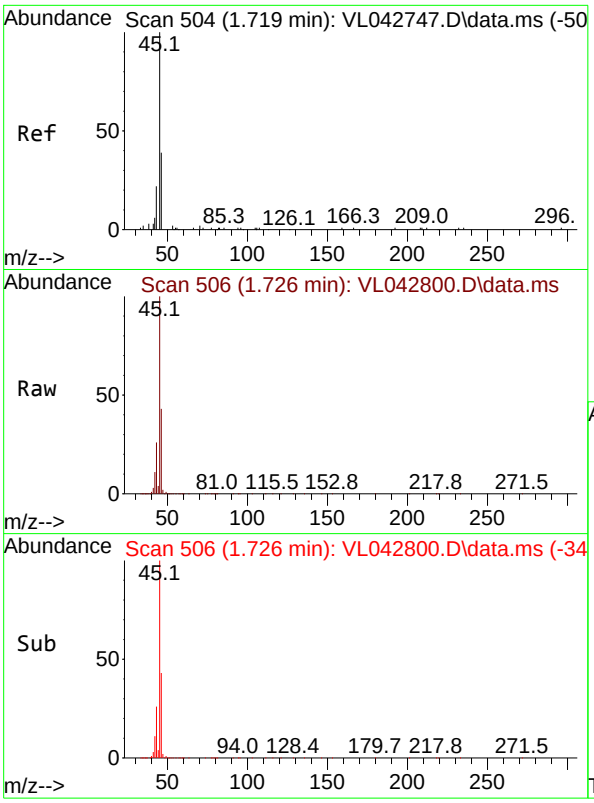


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.072 ppbv
RT: 2.133 min Scan# 632
Delta R.T. -0.006 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:101 Resp: 1280

Ion	Ratio	Lower	Upper
101	100		
151	89.9	60.5	90.7



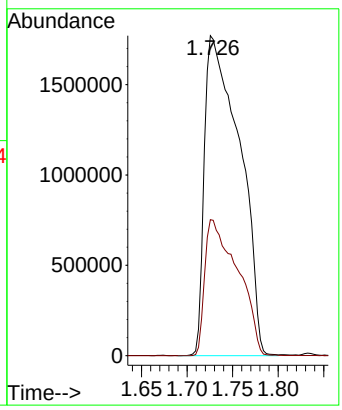


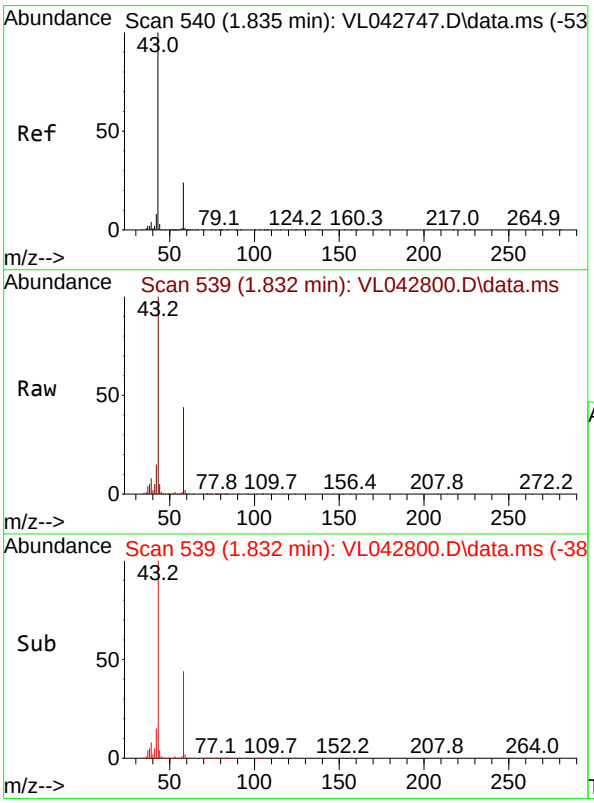
#13
Ethanol
Concen: 6061.609 ppbv
RT: 1.726 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 45 Resp: 4743135

Ion	Ratio	Lower	Upper
45	100		
46	40.0	17.8	71.4

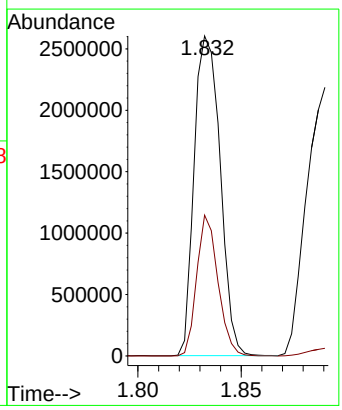


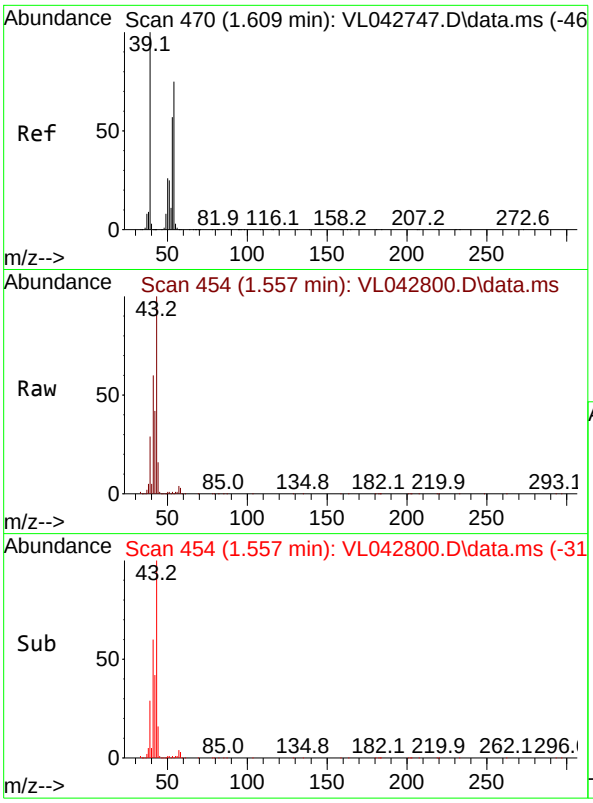


#15
Acetone
Concen: 95.847 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 43 Resp: 2271716

Ion	Ratio	Lower	Upper
43	100		
58	36.1	19.8	29.8#



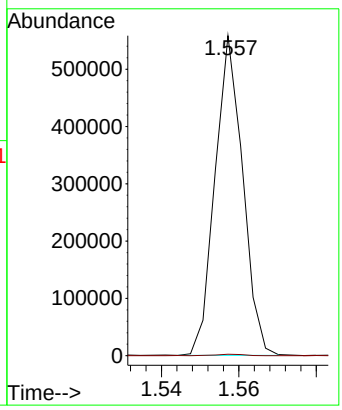


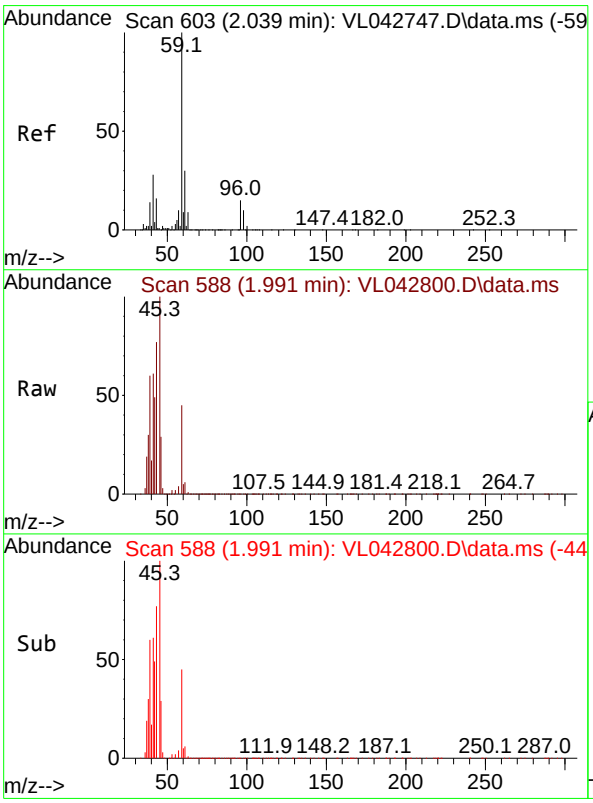
#16
1,3-Butadiene
Concen: 27.421 ppbv
RT: 1.557 min Scan# 4
Delta R.T. -0.052 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 39 Resp: 277218

Ion	Ratio	Lower	Upper
39	100		
54	0.5	54.5	81.7#

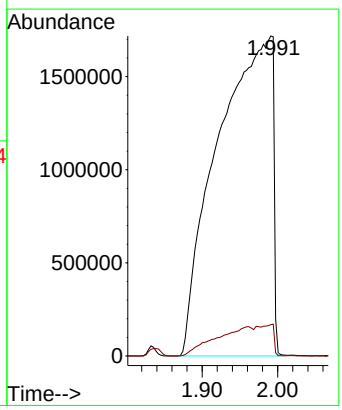


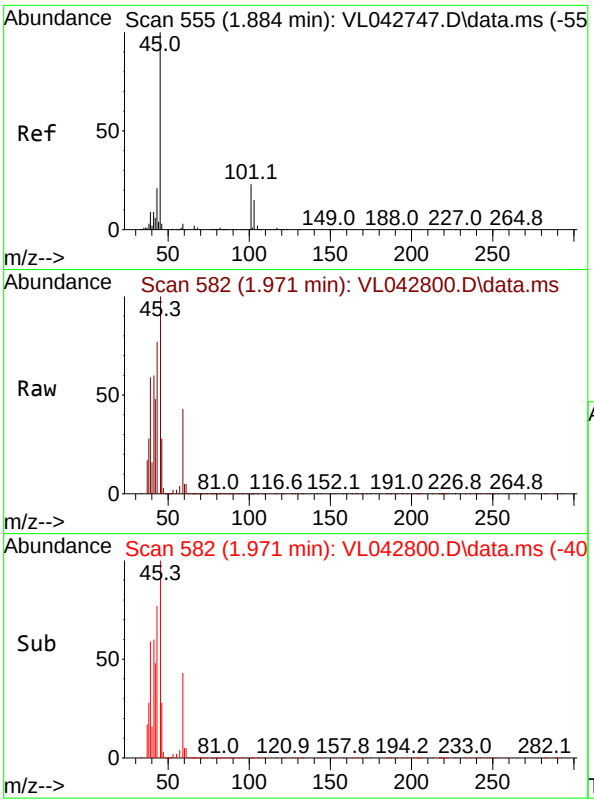


#17
tert-Butyl alcohol
Concen: 407.793 ppbv
RT: 1.991 min Scan# 588
Delta R.T. -0.048 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 59 Resp: 8717102

Ion	Ratio	Lower	Upper
59	100		
57	9.2	8.3	12.5



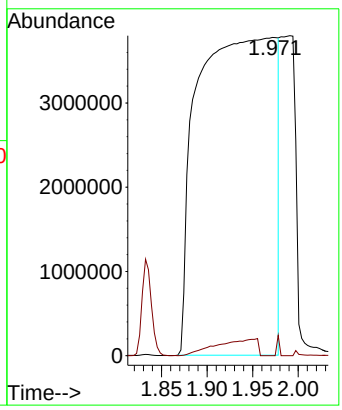


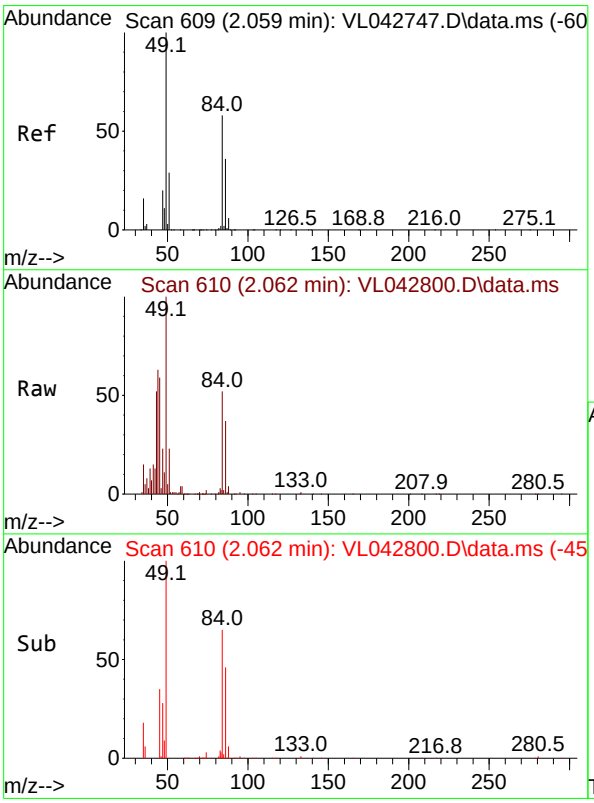
#19
Isopropyl Alcohol
Concen: 1763.643 ppbv
RT: 1.971 min Scan# 5
Delta R.T. 0.087 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 45 Resp:22213534

Ion	Ratio	Lower	Upper
45	100		
58	0.3	30.0	45.0#

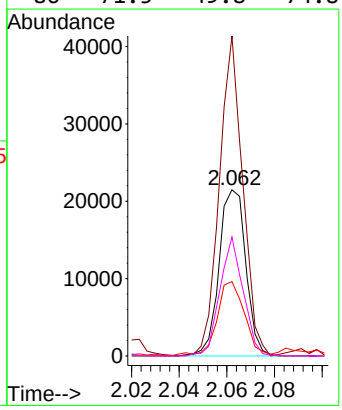


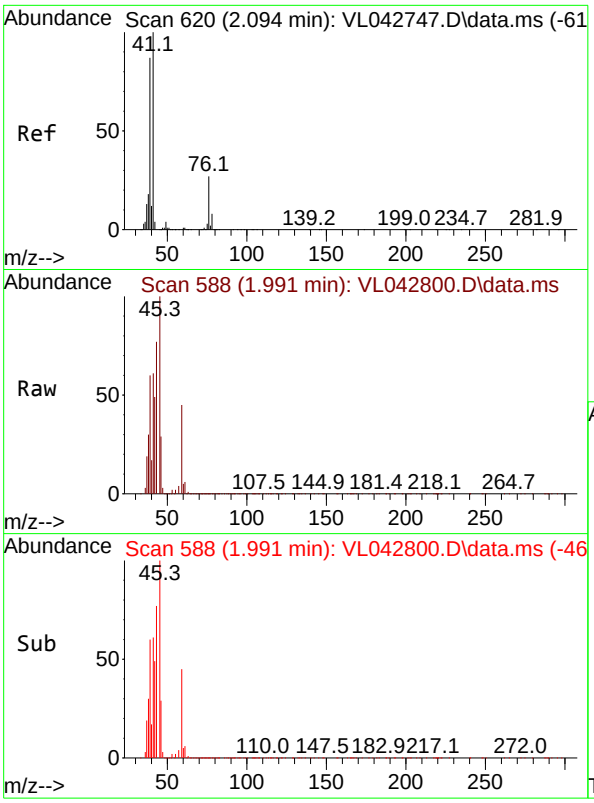


#20
Methylene Chloride
Concen: 2.246 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 84 Resp: 16776

Ion	Ratio	Lower	Upper
84	100		
49	192.4	138.6	208.0
51	43.7	40.6	61.0
86	71.5	49.8	74.8



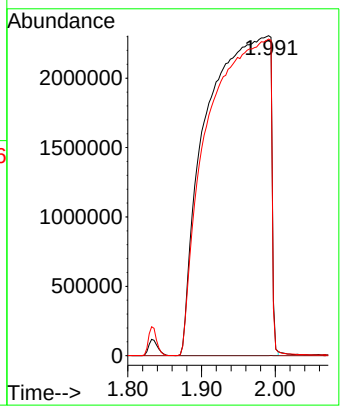


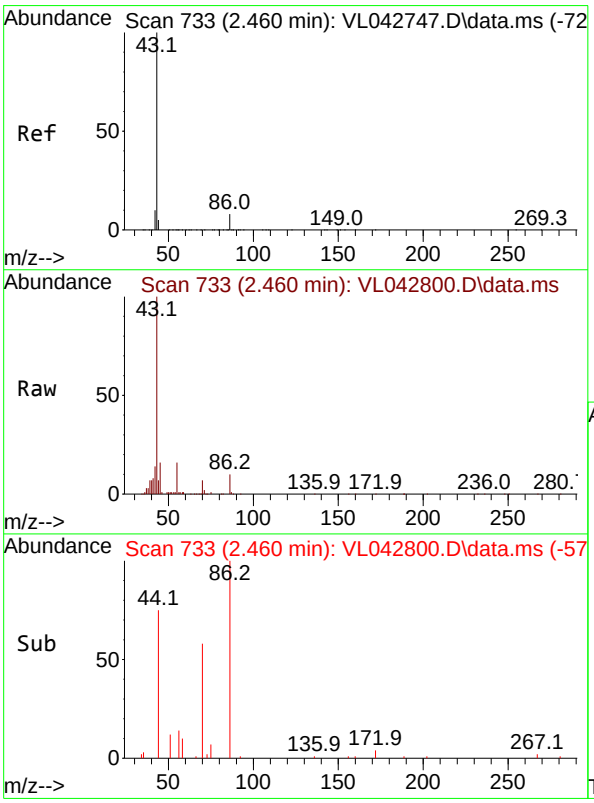
#21
Allyl Chloride
Concen: 936.822 ppbv
RT: 1.991 min Scan# 5
Delta R.T. -0.103 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 41 Resp:13684692

Ion	Ratio	Lower	Upper
41	100		
76	0.5	21.1	31.7#
39	97.0	68.3	102.5

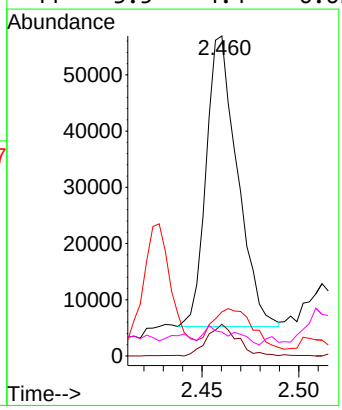


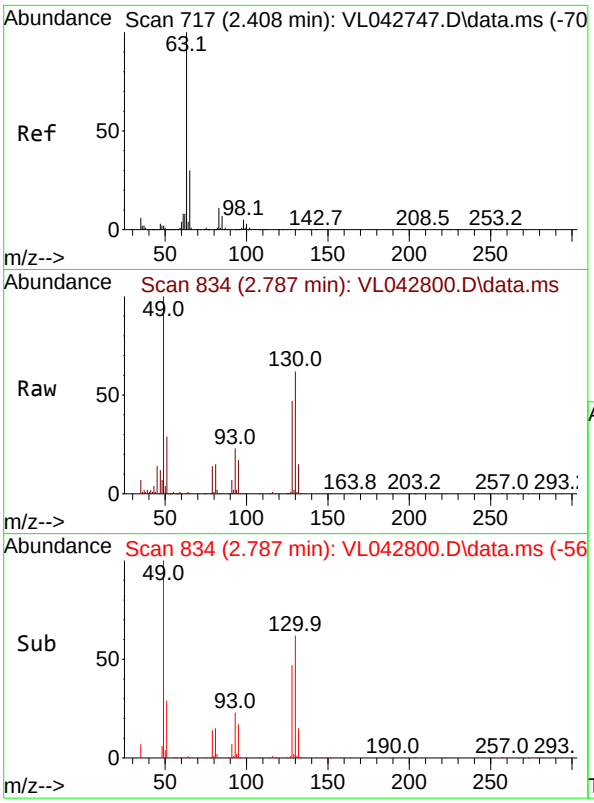


#23
Vinyl Acetate
Concen: 2.015 ppbv
RT: 2.460 min Scan# 733
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 43 Resp: 57901

Ion	Ratio	Lower	Upper
43	100		
86	10.8	6.1	9.1#
42	12.1	7.8	11.8#
44	3.5	4.4	6.6#



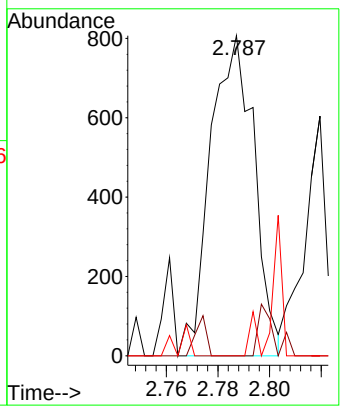


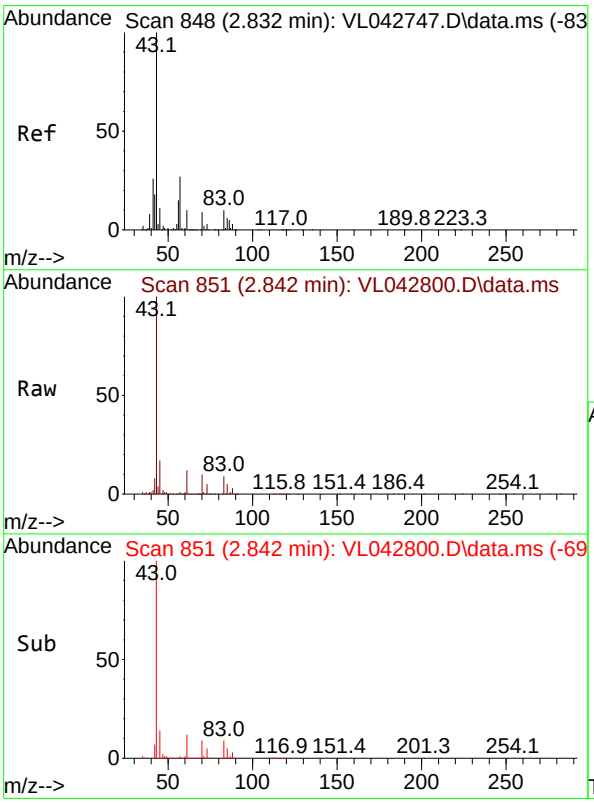
#24
1,1-Dichloroethane
Concen: 0.053 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.379 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 63 Resp: 948

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.5	7.4#
100	0.0	1.6	4.8#

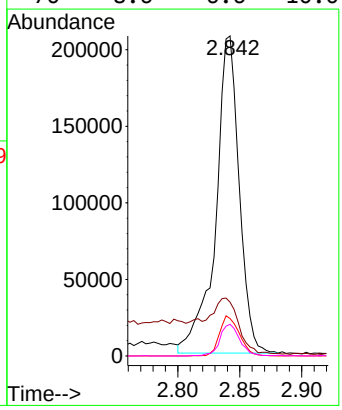


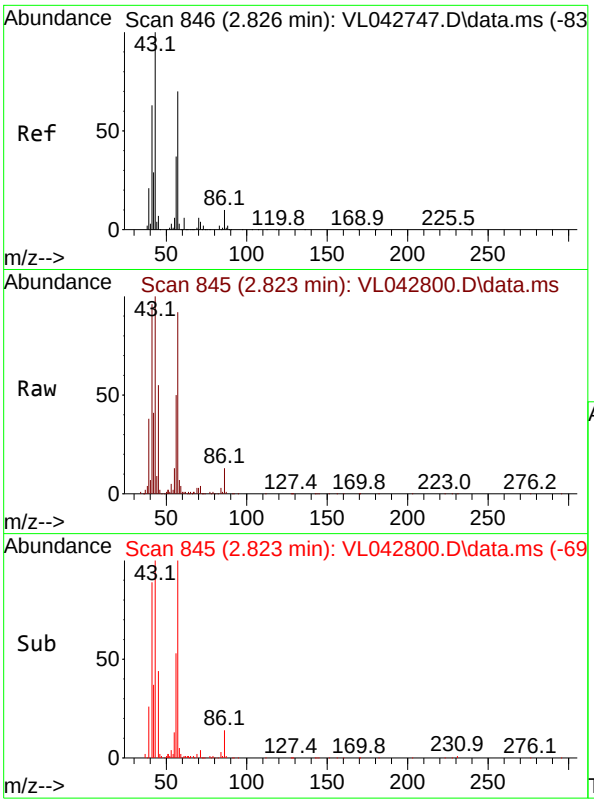


#25
Ethyl Acetate
Concen: 5.229 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 43 Resp: 274303

Ion	Ratio	Lower	Upper
43	100		
45	45.3	7.8	11.6#
61	10.7	6.7	10.1#
70	8.6	6.6	10.0



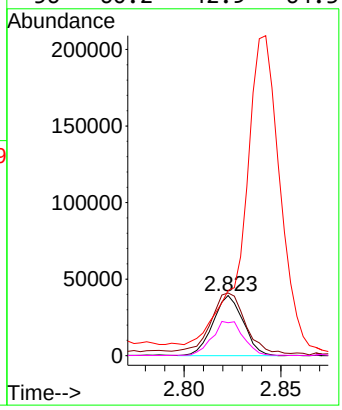


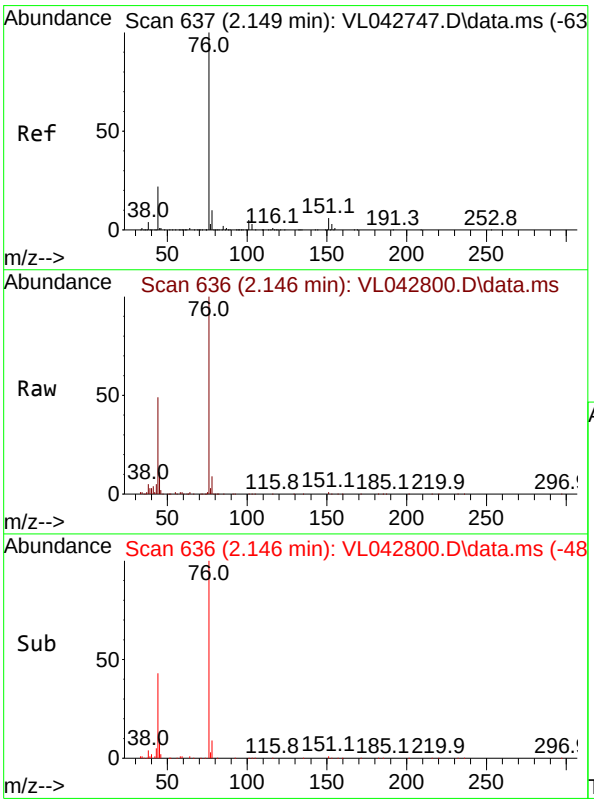
#26
Hexane
Concen: 1.856 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 57 Resp: 42707

Ion	Ratio	Lower	Upper
57	100		
41	135.4	75.4	113.2#
43	682.6	185.0	277.6#
56	60.2	42.9	64.3

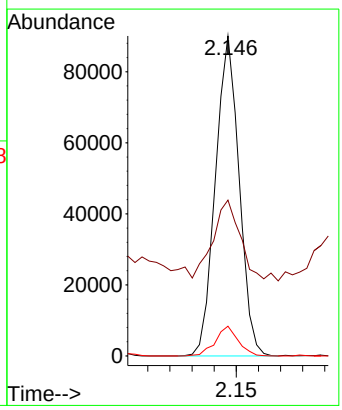


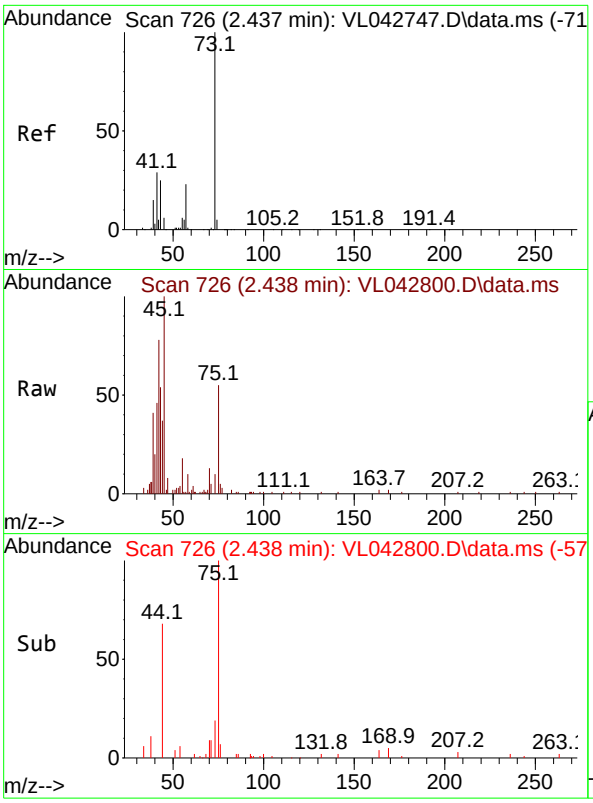


#27
Carbon Disulfide
Concen: 3.404 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 76 Resp: 67073

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	8.9	9.9	14.9#



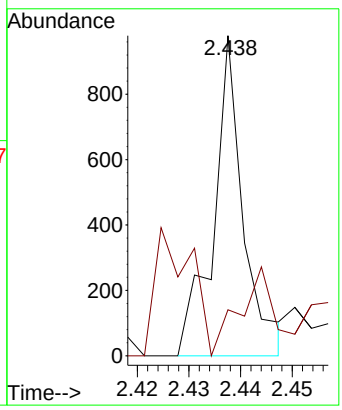


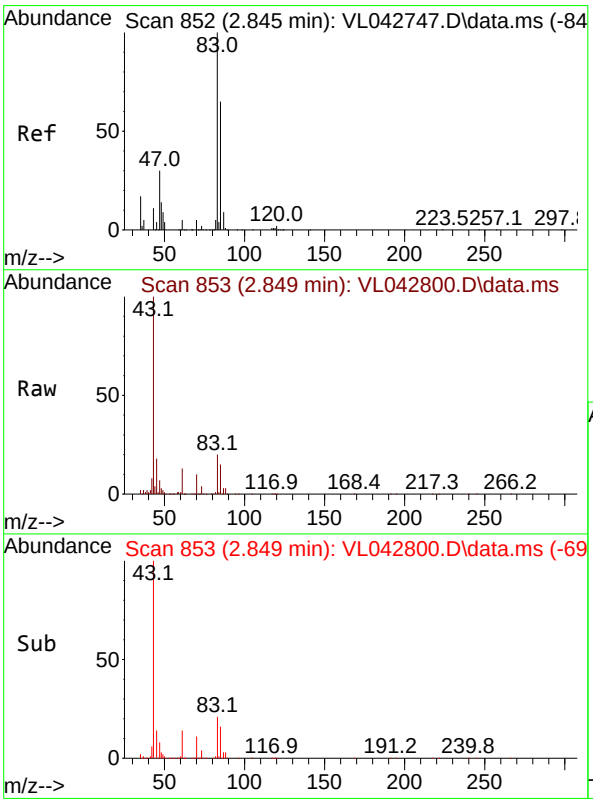
#28
Methyl tert-Butyl Ether
Concen: 0.036 ppbv
RT: 2.438 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 73 Resp: 392

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.8	29.8#

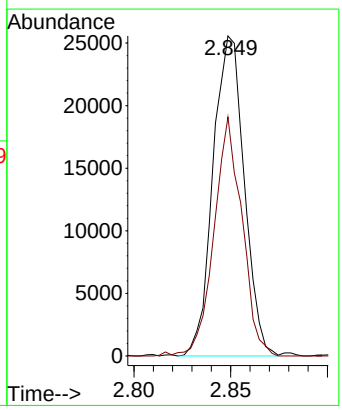


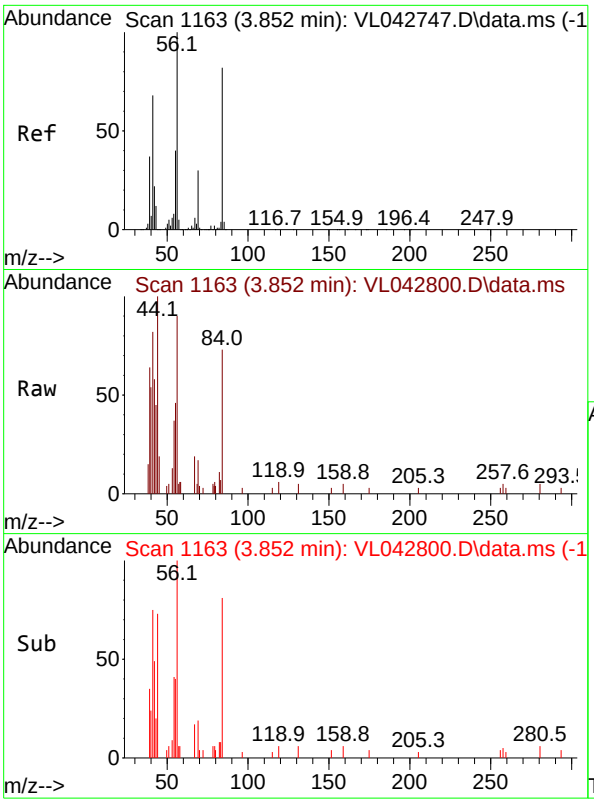


#29
Chloroform
Concen: 0.806 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 83 Resp: 28648

Ion	Ratio	Lower	Upper
83	100		
85	74.7	52.2	78.2



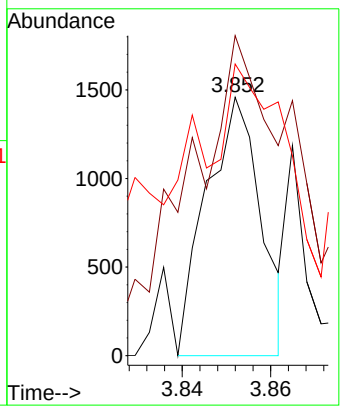


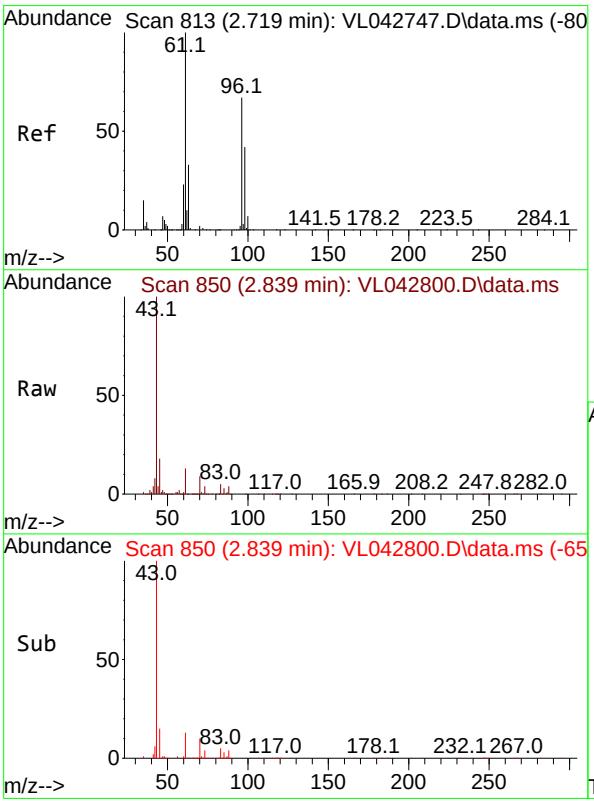
#30
Cyclohexane
Concen: 0.064 ppbv
RT: 3.852 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 84 Resp: 1252

Ion	Ratio	Lower	Upper
84	100		
56	303.6	97.5	146.3#
41	209.8	67.2	100.8#

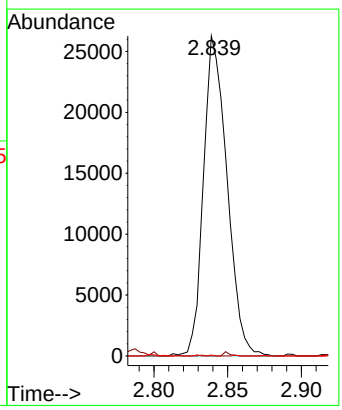


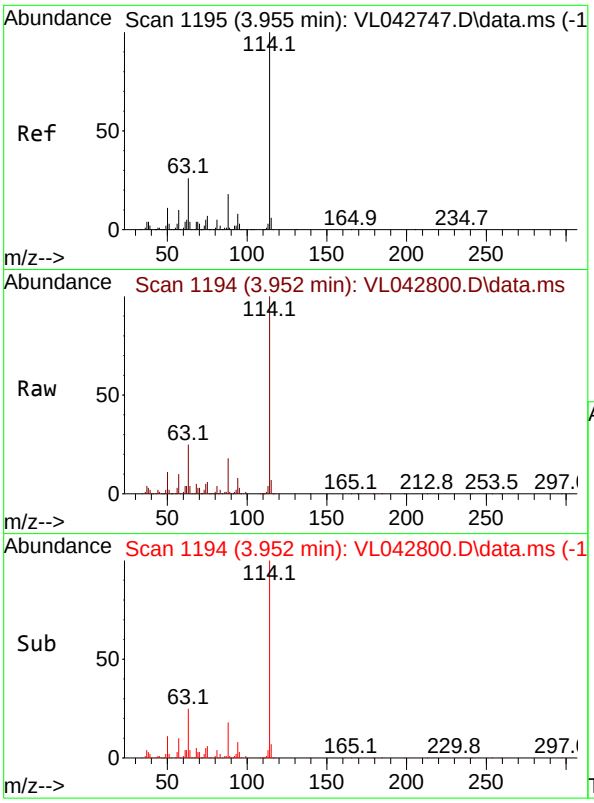


#31
cis-1,2-Dichloroethene
Concen: 1.233 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.120 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 61 Resp: 29160

Ion	Ratio	Lower	Upper
61	100		
96	0.0	53.5	80.3#
98	0.3	33.6	50.4#



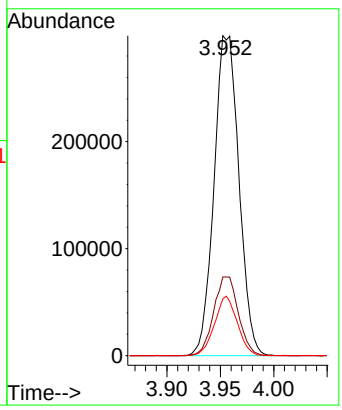


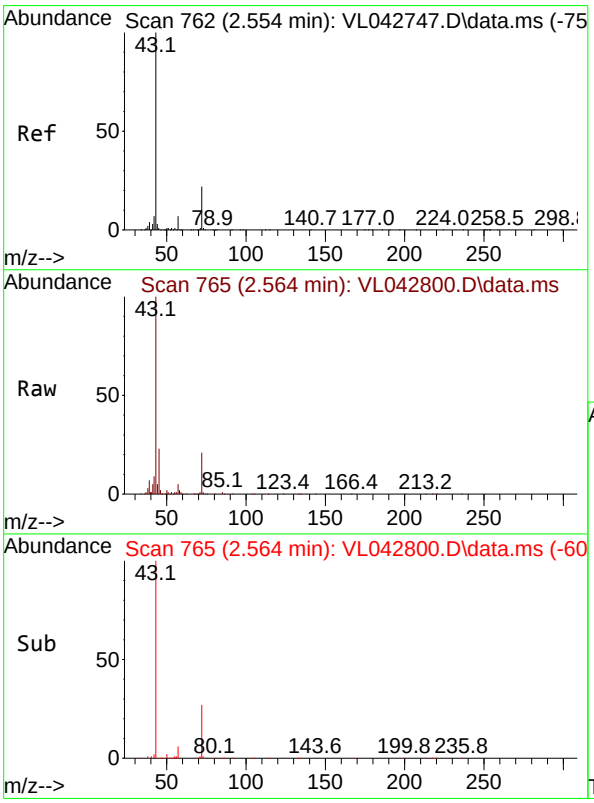
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion:114 Resp: 484996

Ion	Ratio	Lower	Upper
114	100		
63	24.4	20.5	30.7
88	17.0	14.0	21.0

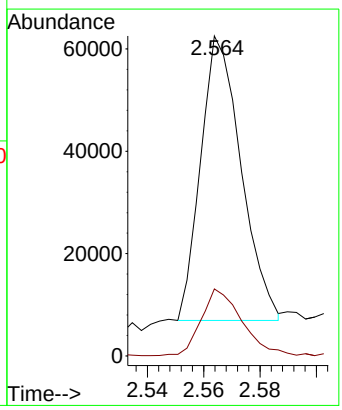


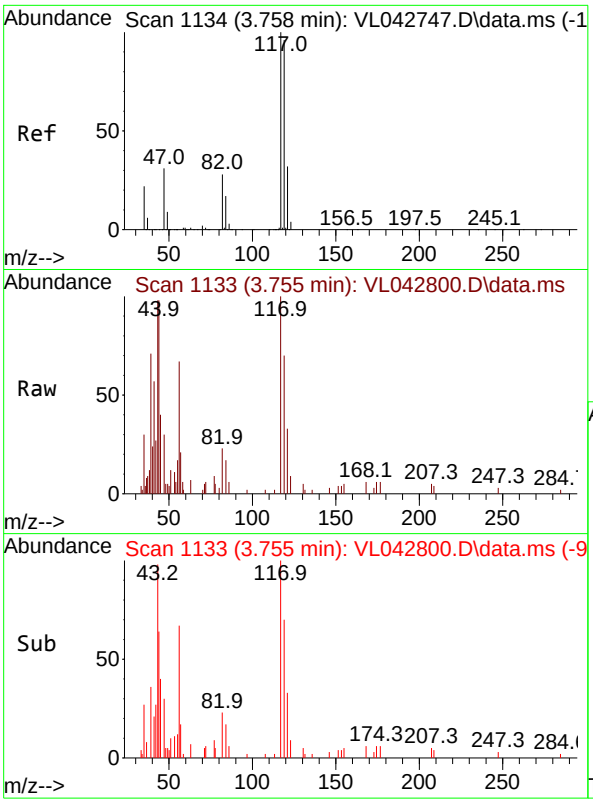


#34
2-Butanone
Concen: 1.608 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 43 Resp: 55250

Ion	Ratio	Lower	Upper
43	100		
72	25.0	17.4	26.0



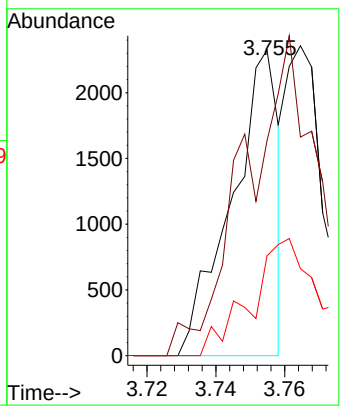


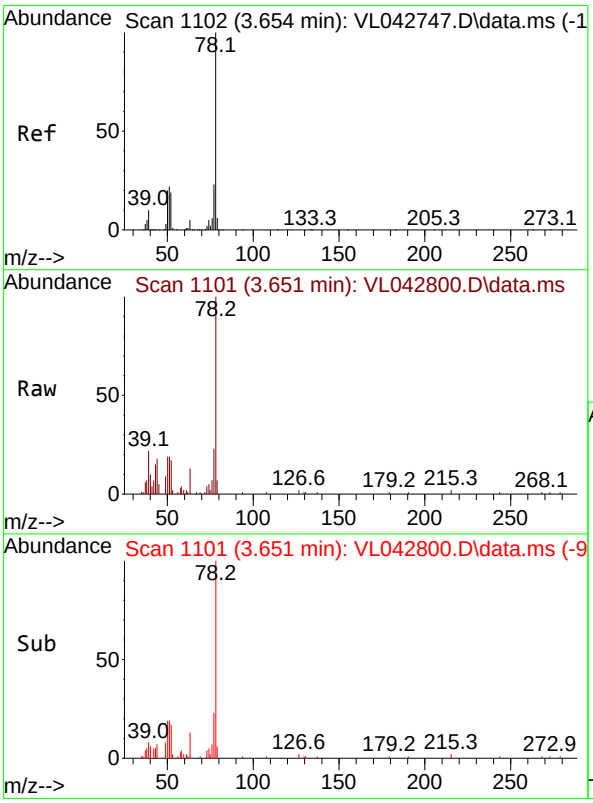
#35
Carbon Tetrachloride
Concen: 0.061 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion:117 Resp: 2193

Ion	Ratio	Lower	Upper
117	100		
119	59.5	77.1	115.7#
121	32.7	25.5	38.3

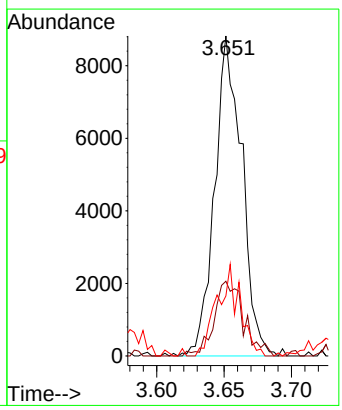


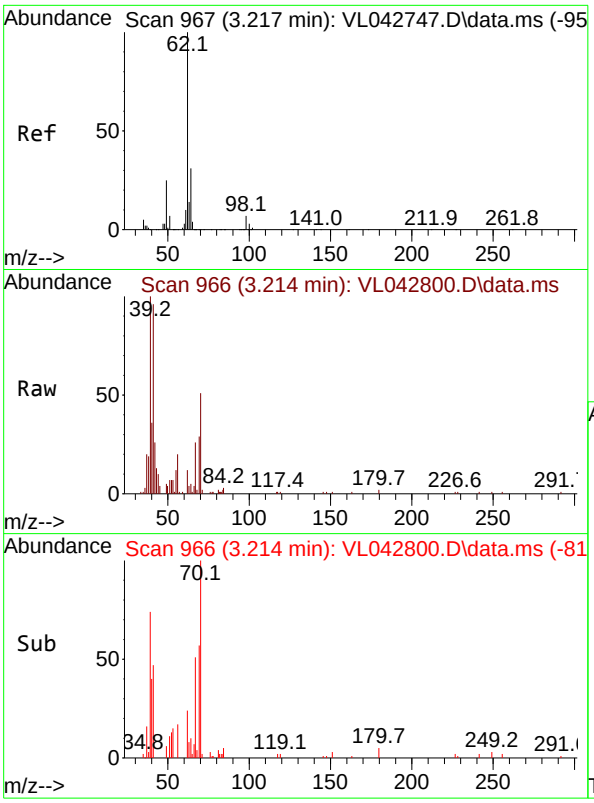


#36
Benzene
Concen: 0.269 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 78 Resp: 12369

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.5	27.7
50	18.8	16.2	24.2



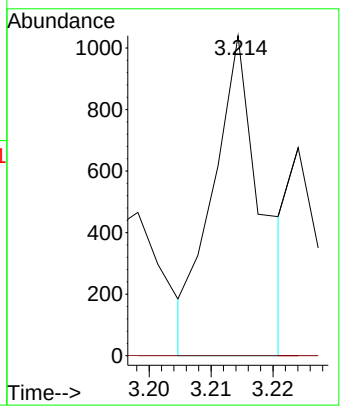


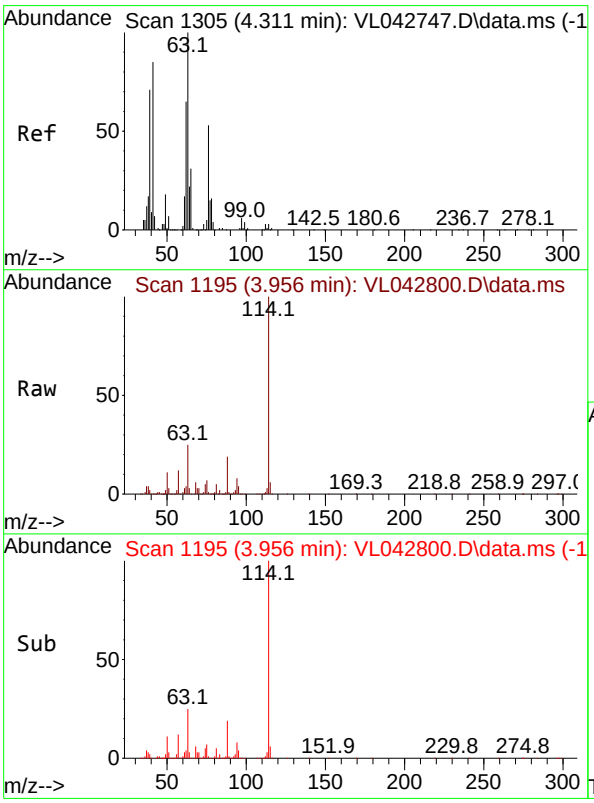
#37
1,2-Dichloroethane
Concen: 0.020 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 62 Resp: 562

Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.2	7.8#

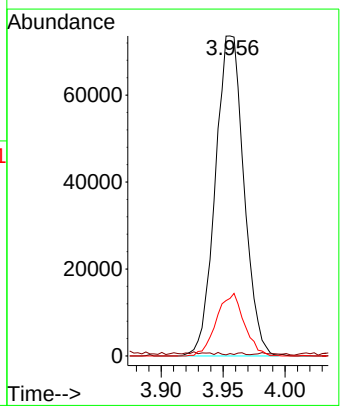


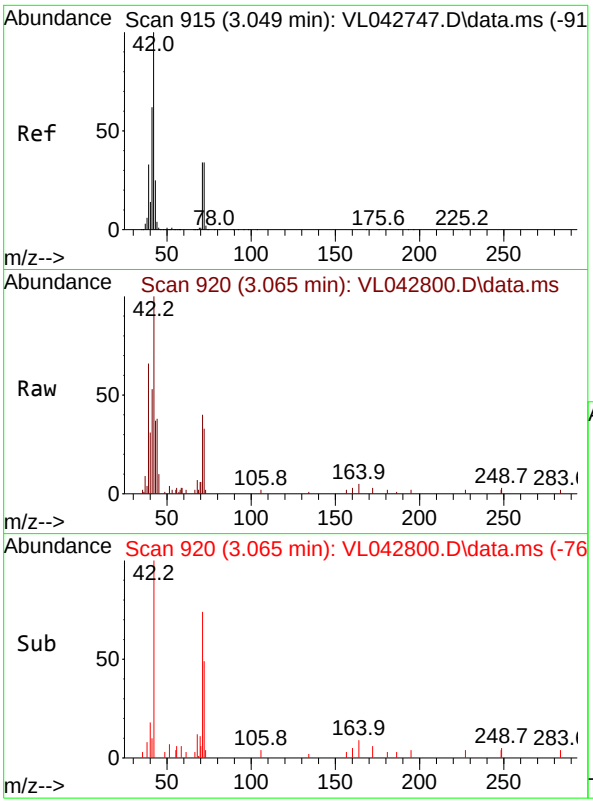


#39
1,2-Dichloropropane
Concen: 6.976 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 63 Resp: 118364

Ion	Ratio	Lower	Upper
63	100		
41	0.1	68.2	102.4#
62	18.0	52.0	78.0#



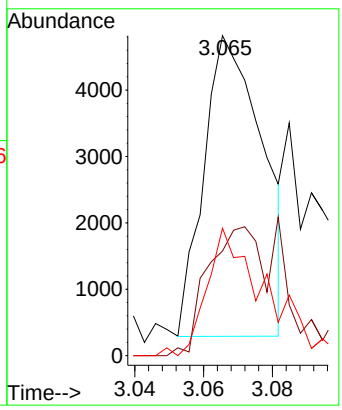


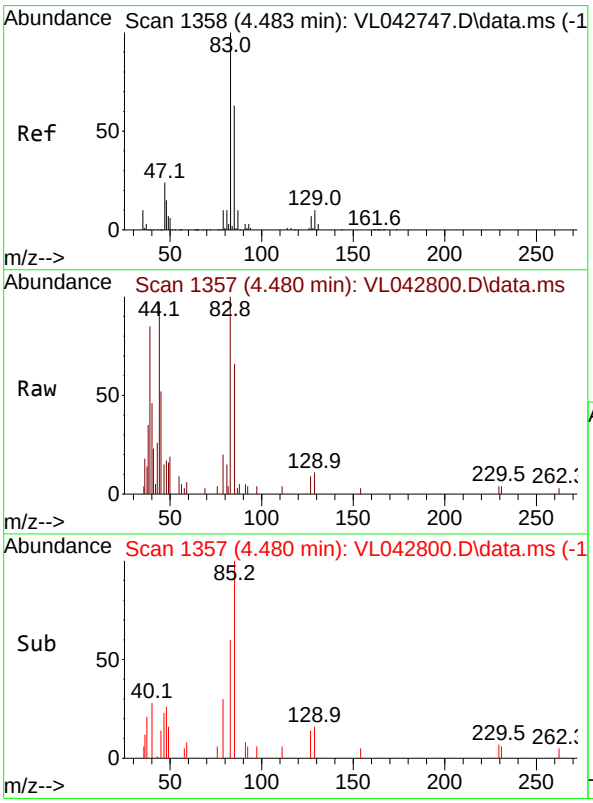
#41
Tetrahydrofuran
Concen: 0.306 ppbv
RT: 3.065 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 42 Resp: 5352

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	42.3	28.6	43.0

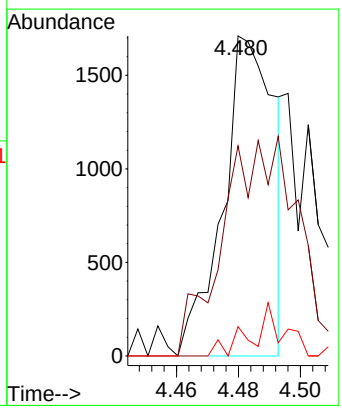


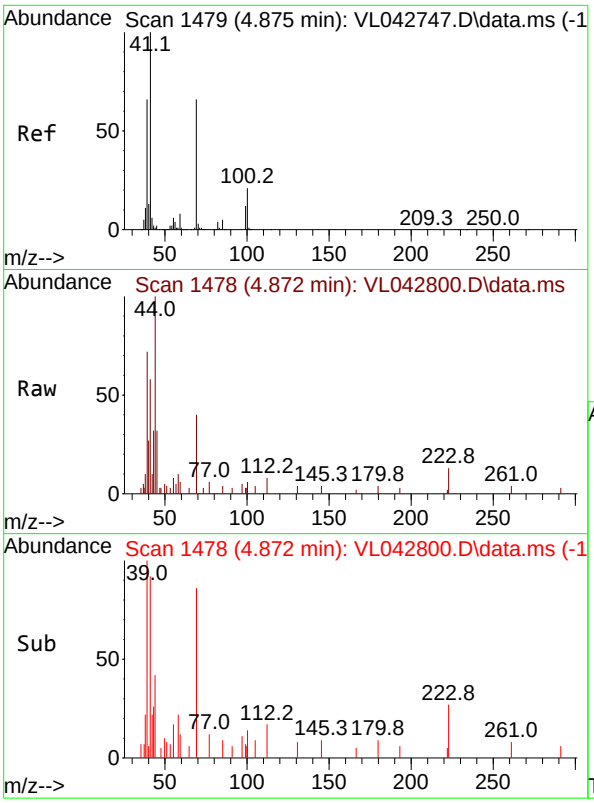


#42
Bromodichloromethane
Concen: 0.055 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 83 Resp: 1968

Ion	Ratio	Lower	Upper
83	100		
85	65.7	50.2	75.4
127	9.2	5.4	8.2#



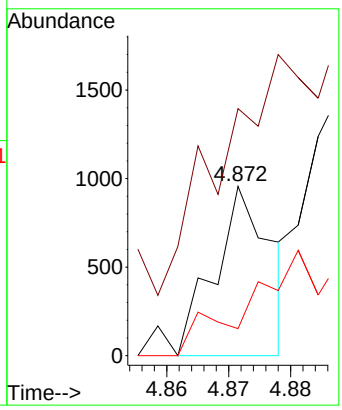


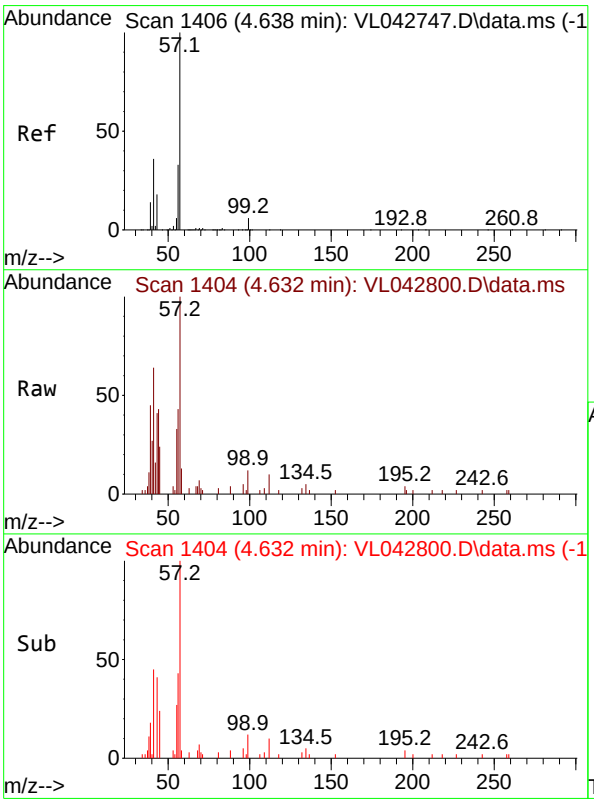
#43
Methyl Methacrylate
Concen: 0.037 ppbv
RT: 4.872 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 69 Resp: 603

Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	0.0	28.6	42.8#

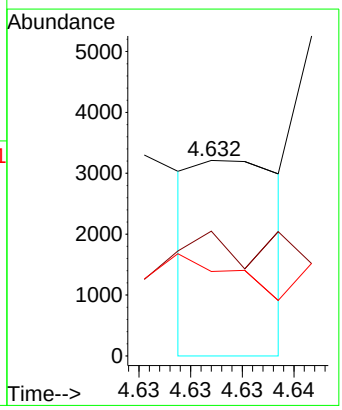


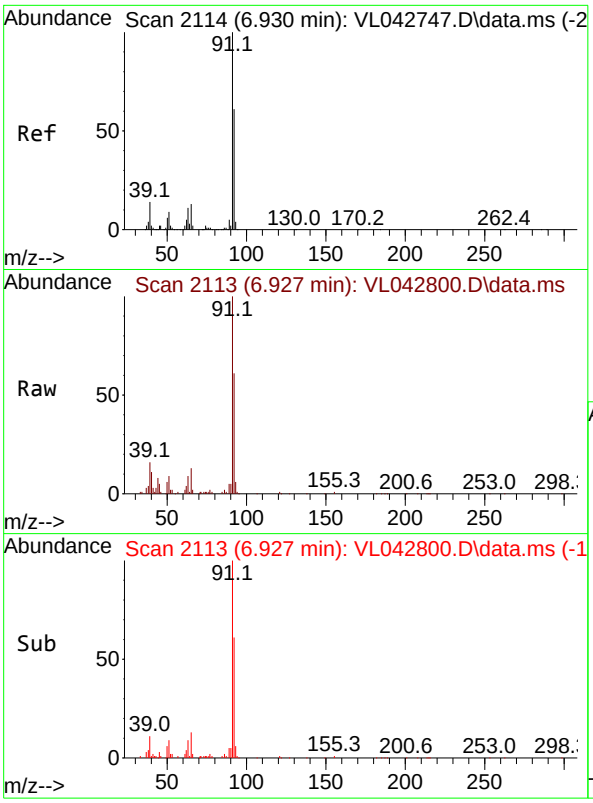


#44
2,2,4-Trimethylpentane
Concen: 0.024 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.006 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 57 Resp: 1822

Ion	Ratio	Lower	Upper
57	100		
41	303.5	28.3	42.5#
56	272.4	25.8	38.6#



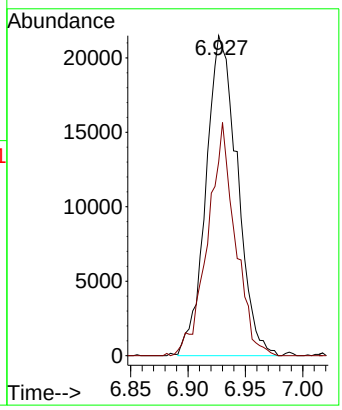


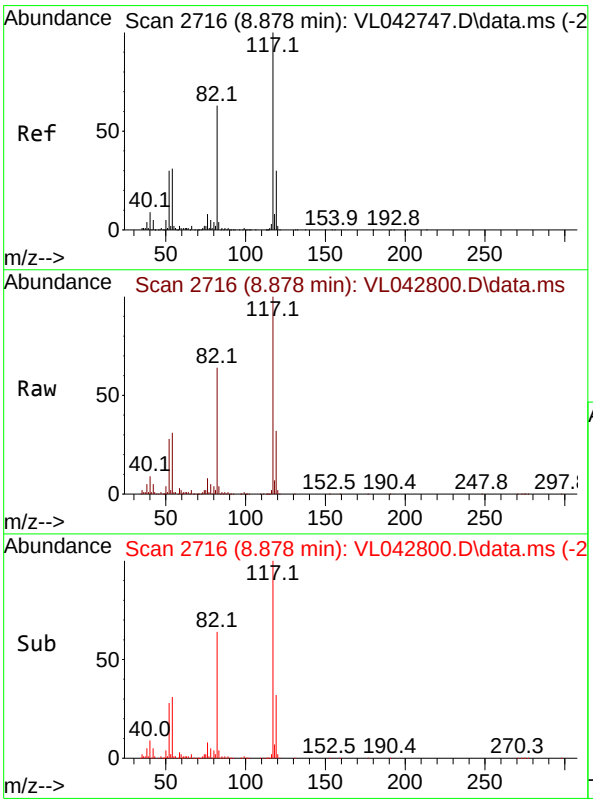
#53
Toluene
Concen: 0.829 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 91 Resp: 40915

Ion	Ratio	Lower	Upper
91	100		
92	64.1	48.0	72.0

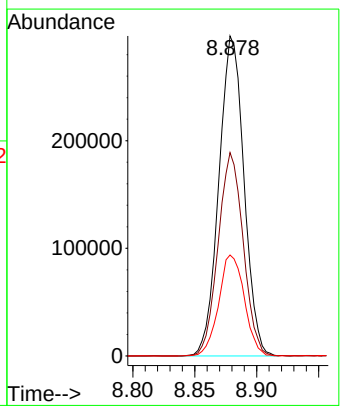


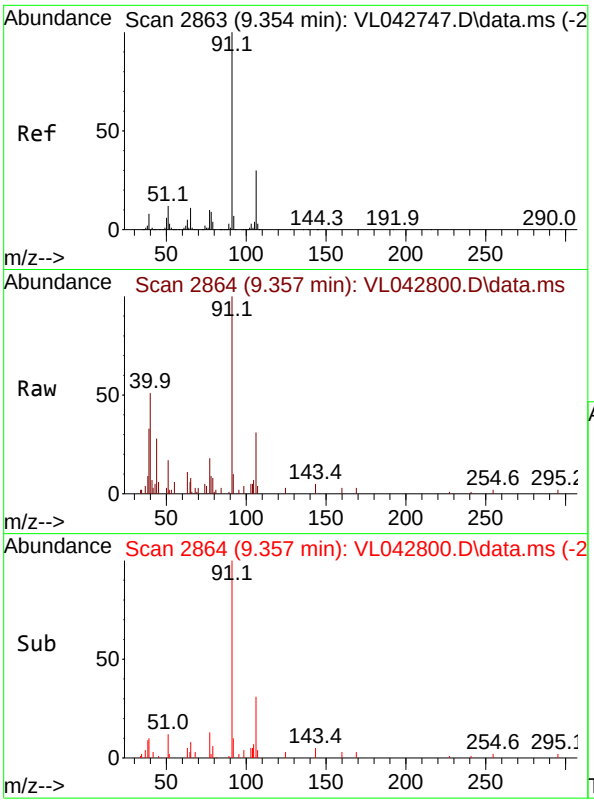


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:117 Resp: 419893

Ion	Ratio	Lower	Upper
117	100		
82	63.6	53.3	79.9
119	32.3	25.8	38.6



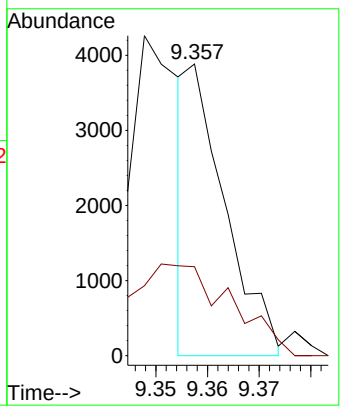


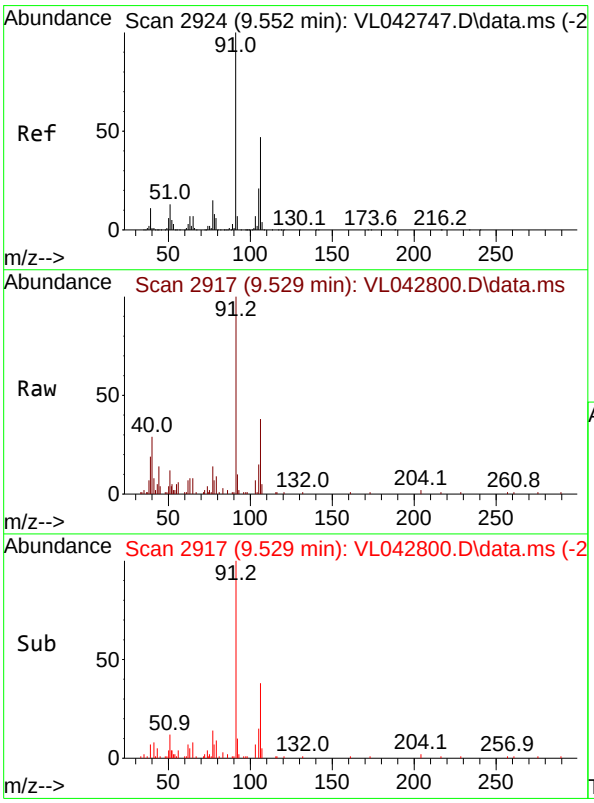
#58
Ethyl Benzene
Concen: 0.030 ppbv
RT: 9.357 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 91 Resp: 1993

Ion	Ratio	Lower	Upper
91	100		
106	25.8	23.8	35.6

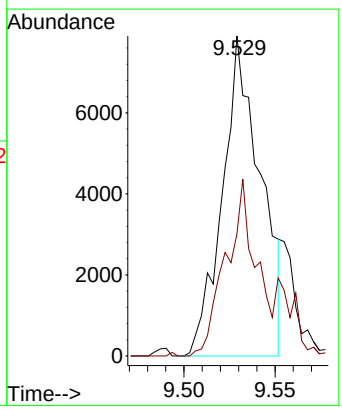


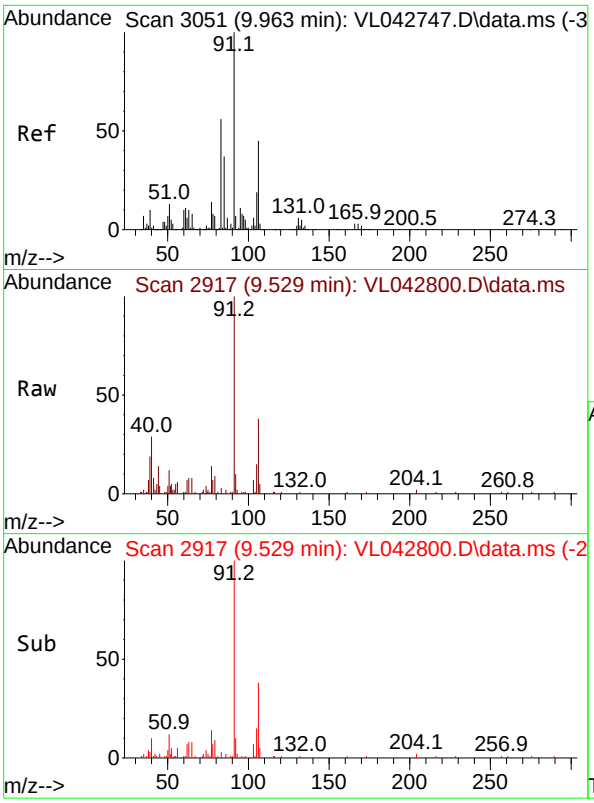


#59
m/p-Xylene
Concen: 0.216 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 91 Resp: 11454

Ion	Ratio	Lower	Upper
91	100		
106	56.2	37.4	56.2#



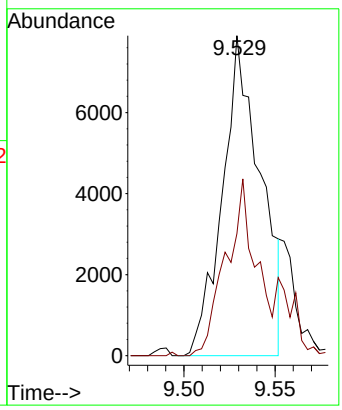


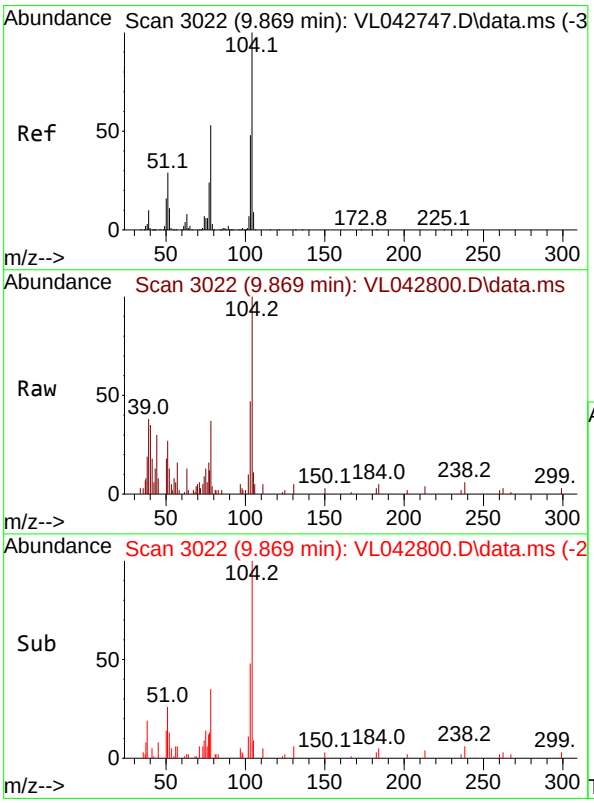
#60
o-Xylene
Concen: 0.216 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.434 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 91 Resp: 11454

Ion	Ratio	Lower	Upper
91	100		
106	56.3	22.0	66.0

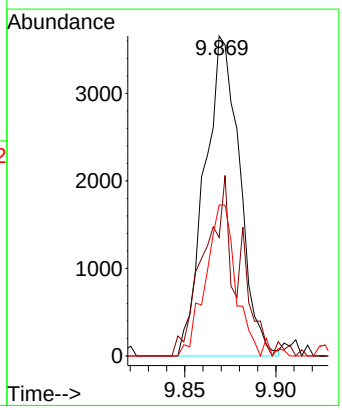


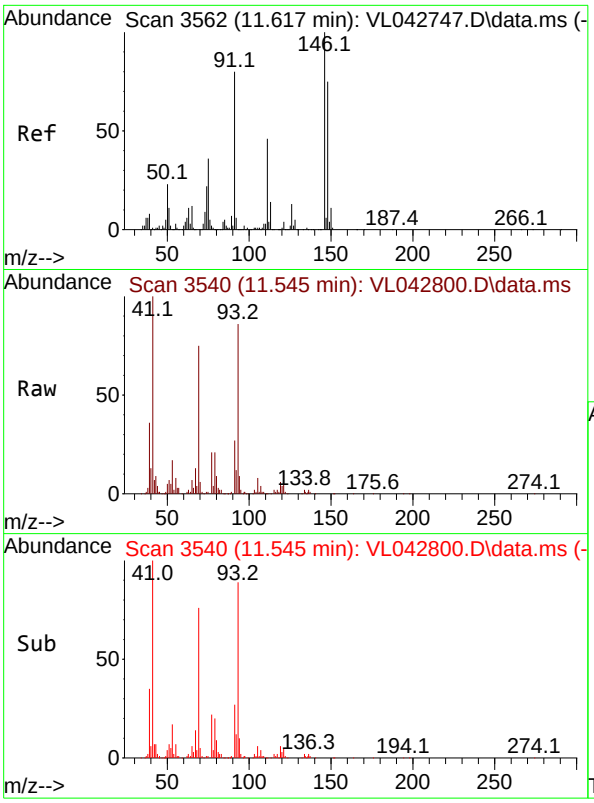


#61
Styrene
Concen: 0.218 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:104 Resp: 4865

Ion	Ratio	Lower	Upper
104	100		
78	55.8	41.5	62.3
103	41.9	37.5	56.3



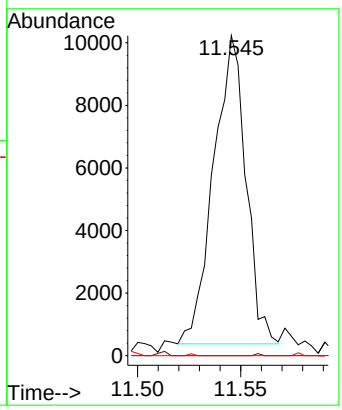


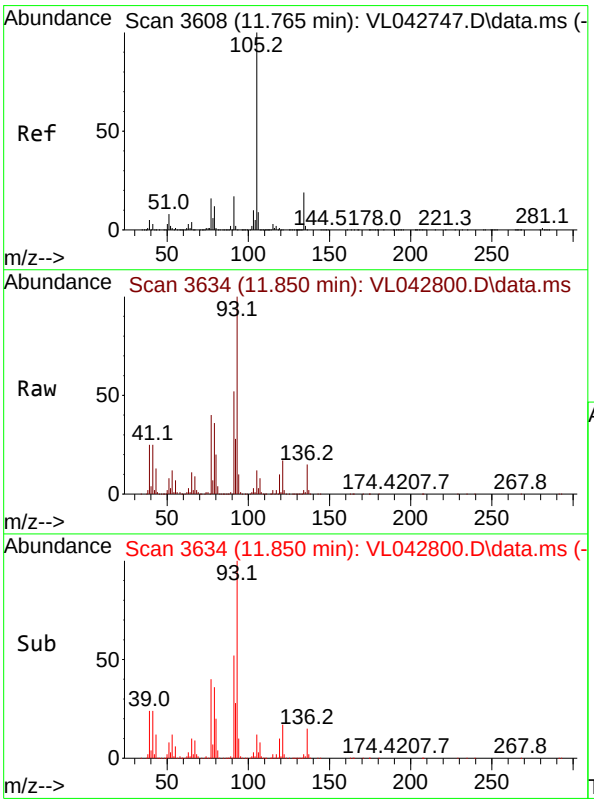
#66
Benzyl Chloride
Concen: 1.883 ppbv
RT: 11.545 min Scan# 3
Delta R.T. -0.071 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 91 Resp: 10725

Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.4	21.6#
128	0.4	5.2	7.8#

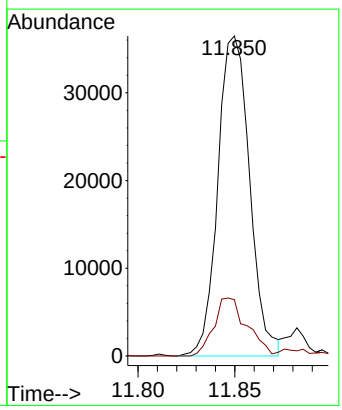


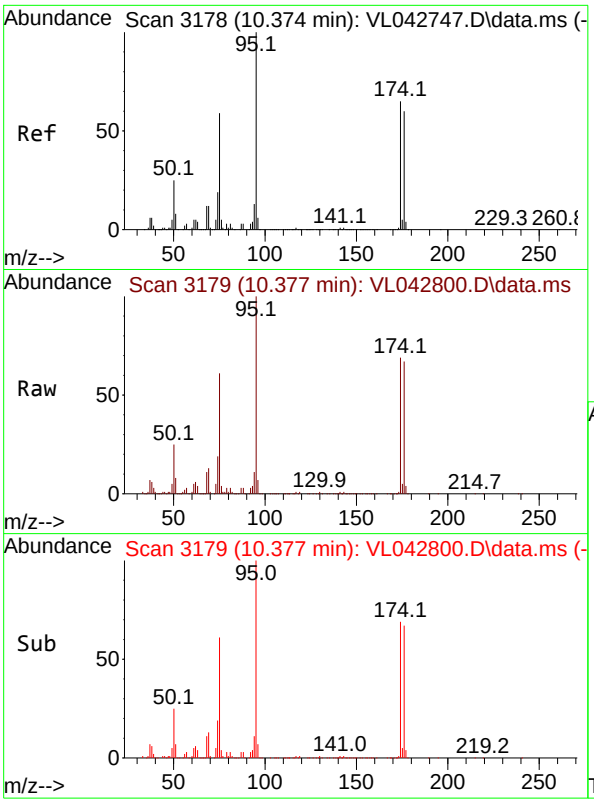


#67
sec-Butylbenzene
Concen: 0.422 ppbv
RT: 11.850 min Scan# 3634
Delta R.T. 0.084 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:105 Resp: 41671

Ion	Ratio	Lower	Upper
105	100		
134	20.9	15.5	23.3



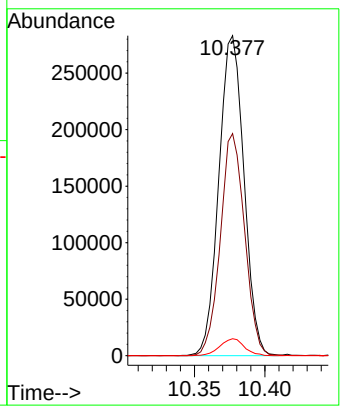


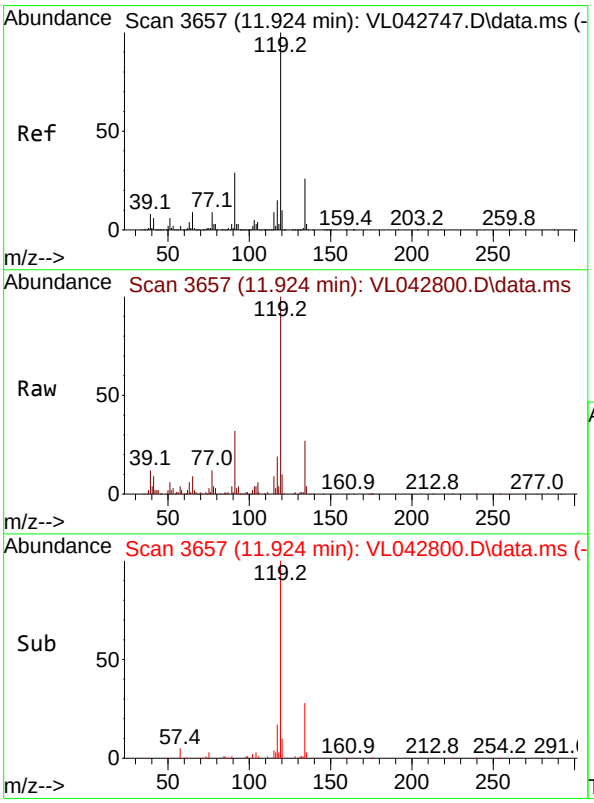
#68
1-Bromo-4-Fluorobenzene
Concen: 10.561 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 95 Resp: 351197

Ion	Ratio	Lower	Upper
95	100		
174	67.4	53.8	80.6
175	5.2	4.0	6.0

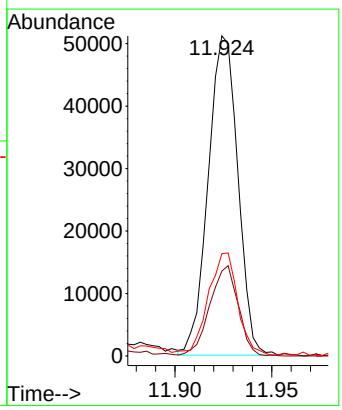


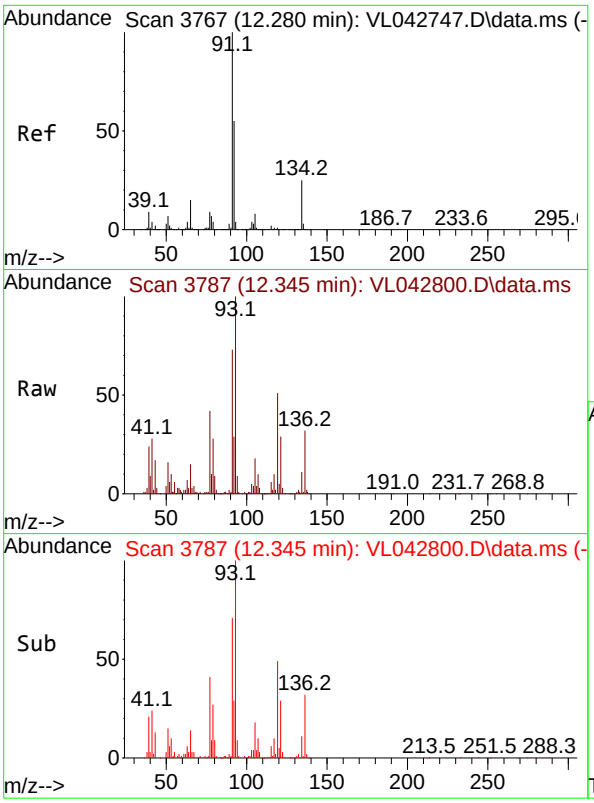


#69
p-Isopropyltoluene
Concen: 0.677 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:119 Resp: 54508

Ion	Ratio	Lower	Upper
119	100		
134	27.4	20.6	31.0
91	32.6	23.2	34.8



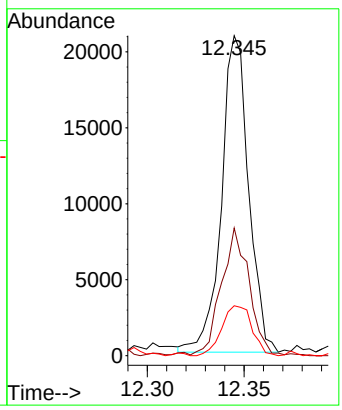


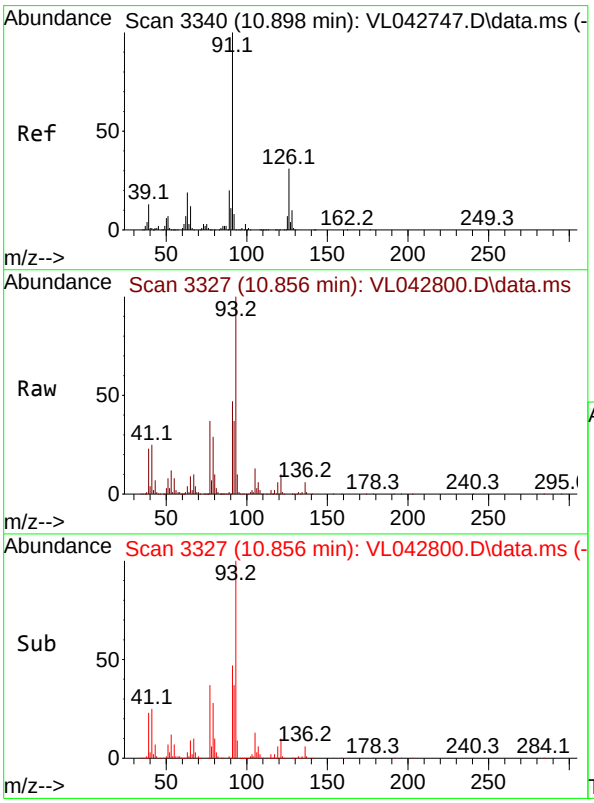
#70
n-Butylbenzene
Concen: 0.261 ppbv
RT: 12.345 min Scan# 3
Delta R.T. 0.065 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion: 91 Resp: 20299

Ion	Ratio	Lower	Upper
91	100		
92	42.5	43.4	65.2#
134	19.7	19.6	29.4

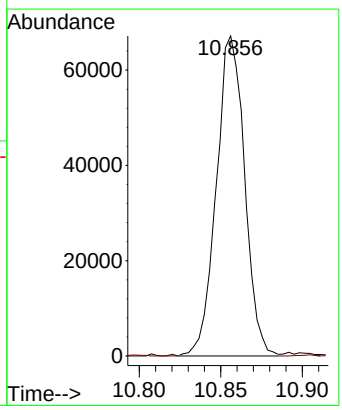


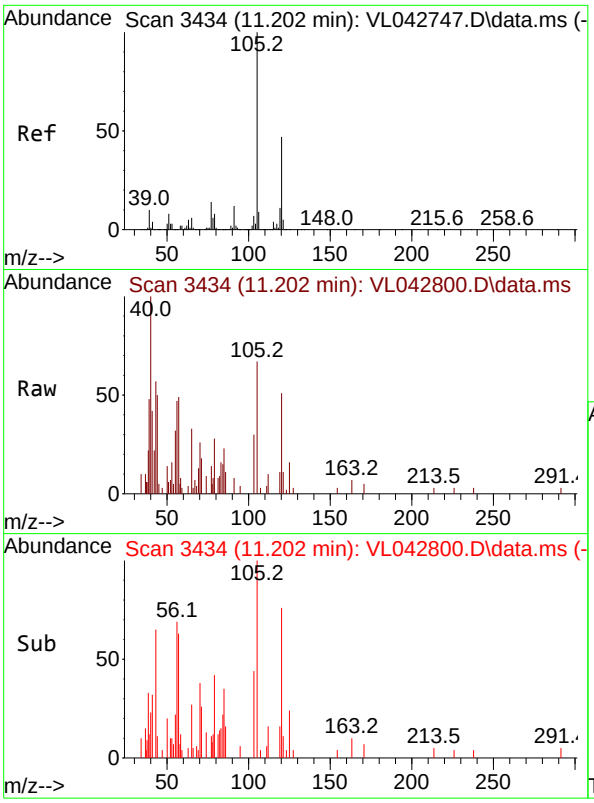


#71
2-Chlorotoluene
Concen: 1.353 ppbv
RT: 10.856 min Scan# 3327
Delta R.T. -0.042 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 91 Resp: 81049

Ion	Ratio	Lower	Upper
91	100		
126	0.2	12.0	48.2#



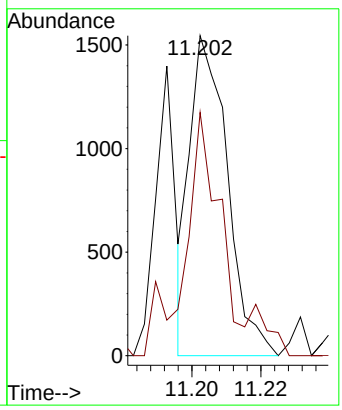


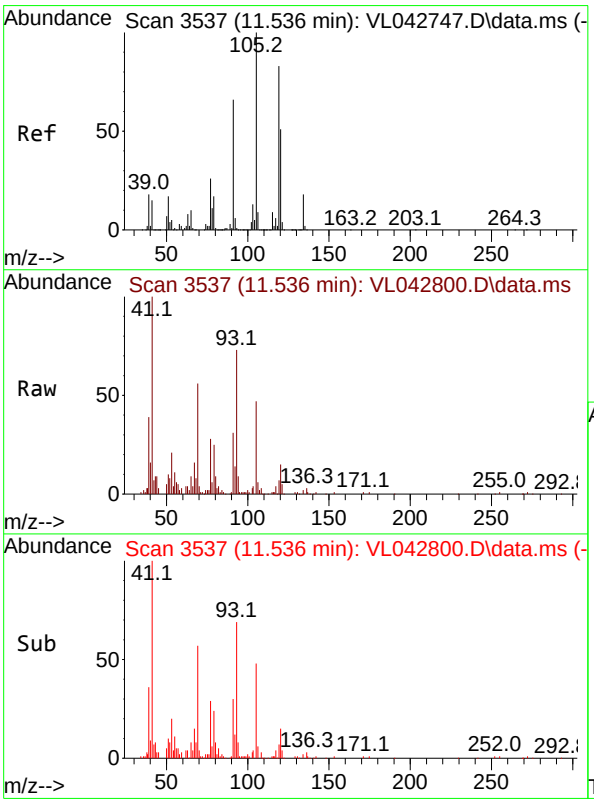
#73
1,3,5-Trimethylbenzene
Concen: 0.023 ppbv
RT: 11.202 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion:105 Resp: 1173

Ion	Ratio	Lower	Upper
105	100		
120	68.7	37.8	56.8#

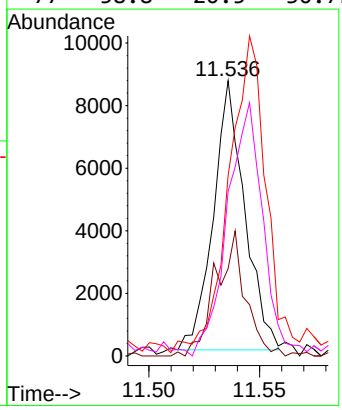


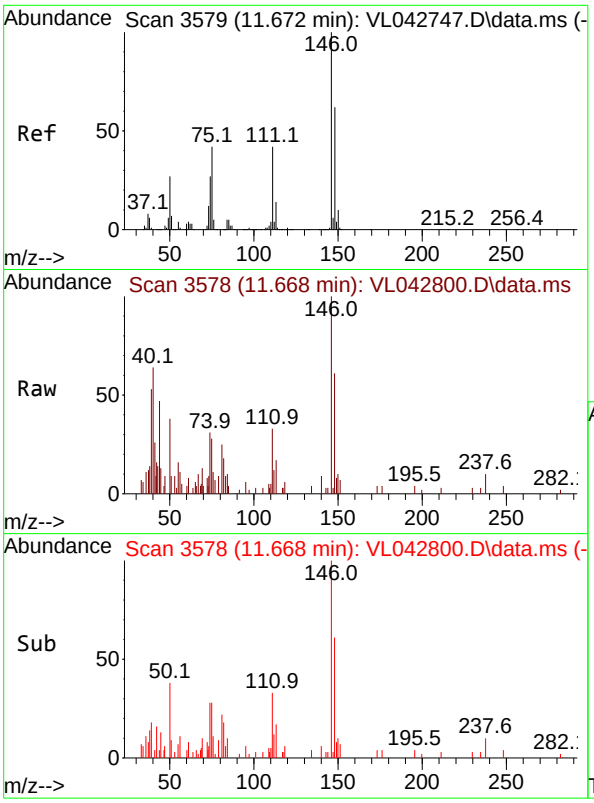


#74
1,2,4-Trimethylbenzene
Concen: 0.150 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:105 Resp: 8507

Ion	Ratio	Lower	Upper
105	100		
120	31.0	40.8	61.2#
91	61.5	53.0	79.4
77	58.8	20.5	30.7#



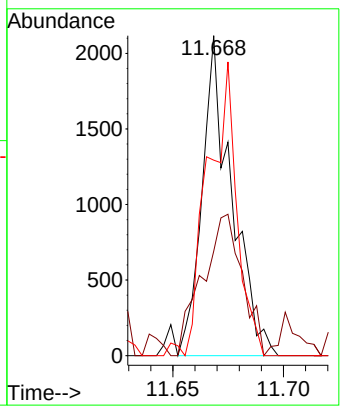


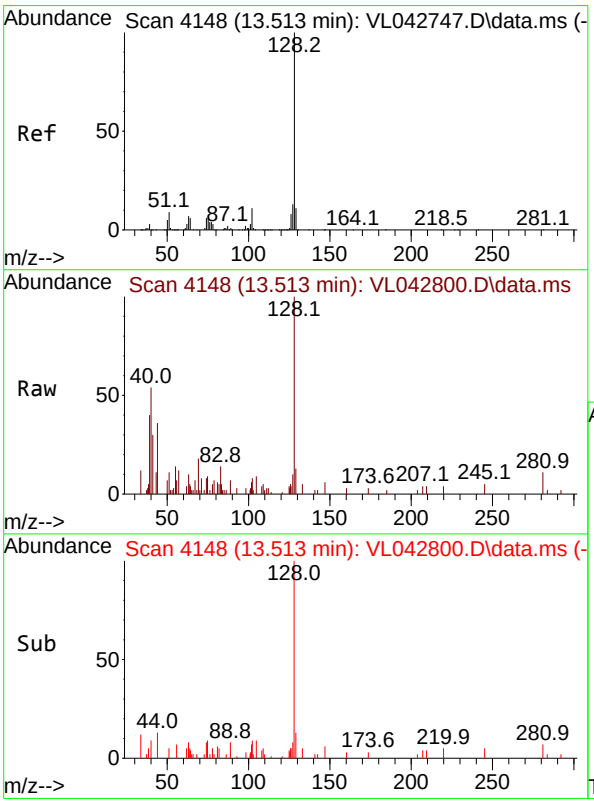
#76
1,4-Dichlorobenzene
Concen: 0.050 ppbv
RT: 11.668 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion:146 Resp: 1965

Ion	Ratio	Lower	Upper
146	100		
111	70.3	21.4	64.2#
148	91.0	32.1	96.3

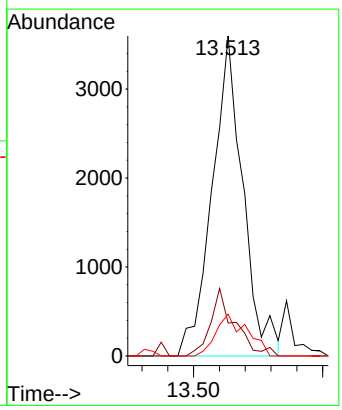


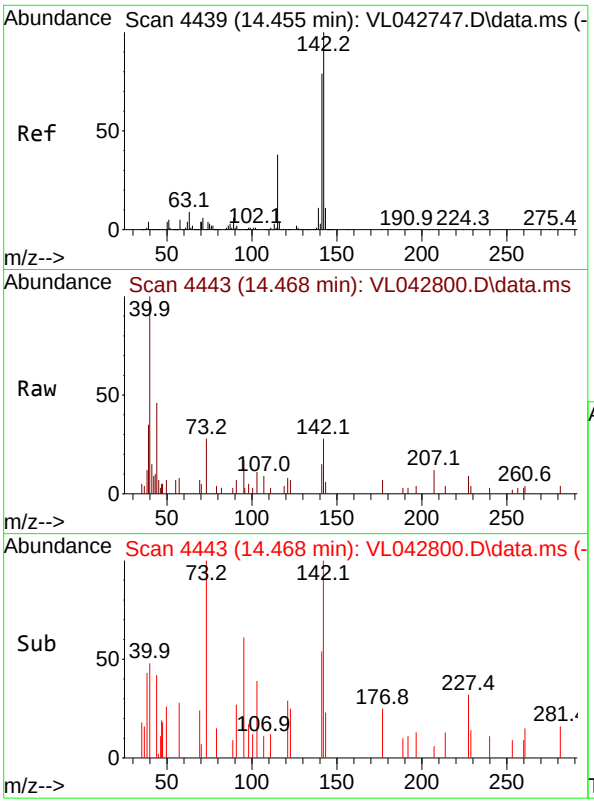


#79
Naphthalene
Concen: 0.481 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:128 Resp: 2980

Ion	Ratio	Lower	Upper
128	100		
127	10.3	10.5	15.7#
129	13.0	8.6	13.0#



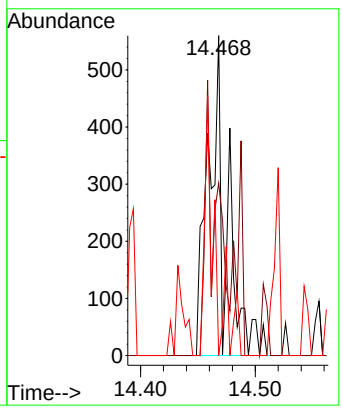


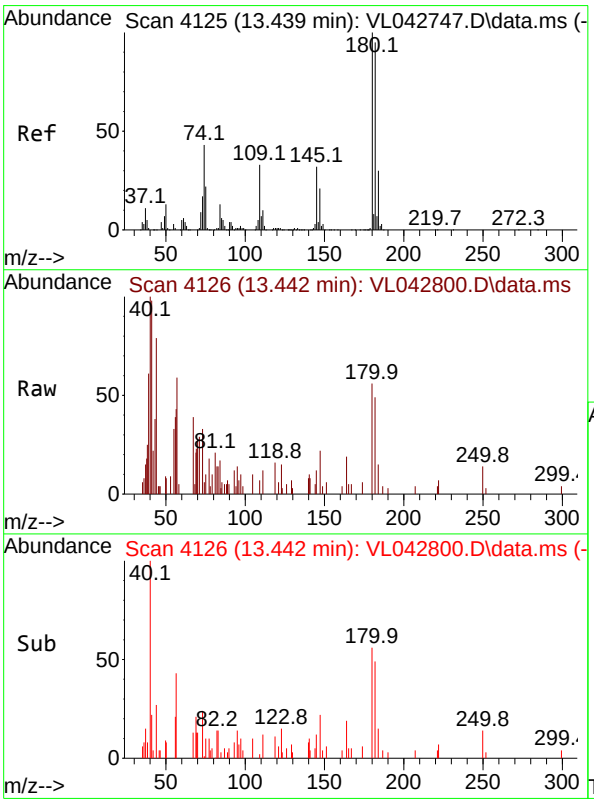
#80
Naphthalene,2-methyl-
Concen: 1.146 ppbv
RT: 14.468 min Scan# 44
Delta R.T. 0.013 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion:142 Resp: 600

Ion	Ratio	Lower	Upper
142	100		
141	78.7	65.8	98.8
115	46.8	31.2	46.8#

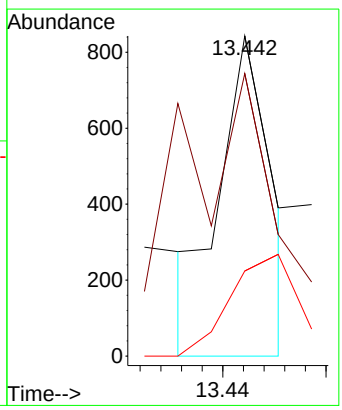




#81
1,2,4-Trichlorobenzene
Concen: 0.443 ppbv
RT: 13.442 min Scan# 4126
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:180 Resp: 294

Ion	Ratio	Lower	Upper
180	100		
182	217.3	76.2	114.2#
184	41.5	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042801.D
Acq On : 04 Aug 2025 12:56
Operator : SY/MD
Sample : Q2750-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Quant Time: Aug 05 01:03:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	166612	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	474561	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	413546	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	344382	10.515	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.473	85	35749	1.623	ppbv	99
3) Chlorodifluoromethane	1.473	51	1610964	56.139	ppbv #	82
4) Chloromethane	1.531	50	5658	0.635	ppbv	90
5) Vinyl Chloride	1.486	62	1330	0.151	ppbv #	37
6) Bromomethane	1.661	94	174	0.051	ppbv	93
7) Chloroethane	1.700	64	345	0.101	ppbv #	35
8) Dichlorotetrafluoroethane	1.496	85	12177	0.672	ppbv #	21
9) Propene	1.557	41	647804	62.113	ppbv	96
10) Heptane	4.975	43	2899	0.103	ppbv #	27
11) Trichlorofluoromethane	1.874	101	4819	0.212	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.137	101	1393	0.081	ppbv	87
13) Ethanol	1.725	45	4909025	6463.202	ppbv	94
15) Acetone	1.832	43	2255724	98.047	ppbv #	78
16) 1,3-Butadiene	1.557	39	320001	32.609	ppbv #	16
17) tert-Butyl alcohol	1.975	59	7088595	341.627	ppbv	97
19) Isopropyl Alcohol	1.991	45	26462371	2164.446	ppbv #	38
20) Methylene Chloride	2.062	84	11537	1.591	ppbv	95
21) Allyl Chloride	1.991	41	13700738	966.253	ppbv #	78
23) Vinyl Acetate	2.473	43	32455	1.164	ppbv #	76
24) 1,1-Dichloroethane	2.781	63	461	0.027	ppbv #	94
25) Ethyl Acetate	2.842	43	279610	5.491	ppbv #	46
26) Hexane	2.823	57	38882	1.741	ppbv #	1
27) Carbon Disulfide	2.146	76	64759	3.386	ppbv #	65
29) Chloroform	2.849	83	19459	0.564	ppbv	92
30) Cyclohexane	3.862	84	919	0.049	ppbv #	1
31) cis-1,2-Dichloroethene	2.839	61	29364	1.279	ppbv #	23
34) 2-Butanone	2.567	43	38173	1.136	ppbv	93
35) Carbon Tetrachloride	3.758	117	1236	0.035	ppbv #	84
36) Benzene	3.655	78	12792	0.284	ppbv #	85
39) 1,2-Dichloropropane	3.956	63	117534	7.080	ppbv #	21
41) Tetrahydrofuran	3.069	42	2916	0.170	ppbv #	75
43) Methyl Methacrylate	4.875	69	933	0.058	ppbv #	1
44) 2,2,4-Trimethylpentane	4.635	57	5675	0.077	ppbv #	28
53) Toluene	6.933	91	18109	0.375	ppbv #	21
58) Ethyl Benzene	9.351	91	4937	0.076	ppbv	98
59) m/p-Xylene	9.548	91	2921	0.056	ppbv #	30
60) o-Xylene	9.966	91	1849	0.035	ppbv #	32
61) Styrene	9.869	104	4962	0.226	ppbv	95
62) Isopropylbenzene	10.536	105	1553	0.020	ppbv #	81
65) tert-Butylbenzene	11.539	119	2516	0.037	ppbv #	1
66) Benzyl Chloride	11.545	91	11984	2.136	ppbv #	67
67) sec-Butylbenzene	11.850	105	41419	0.426	ppbv	97
69) p-Isopropyltoluene	11.927	119	52018	0.656	ppbv	93

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042801.D
Acq On : 04 Aug 2025 12:56
Operator : SY/MD
Sample : Q2750-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Quant Time: Aug 05 01:03:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

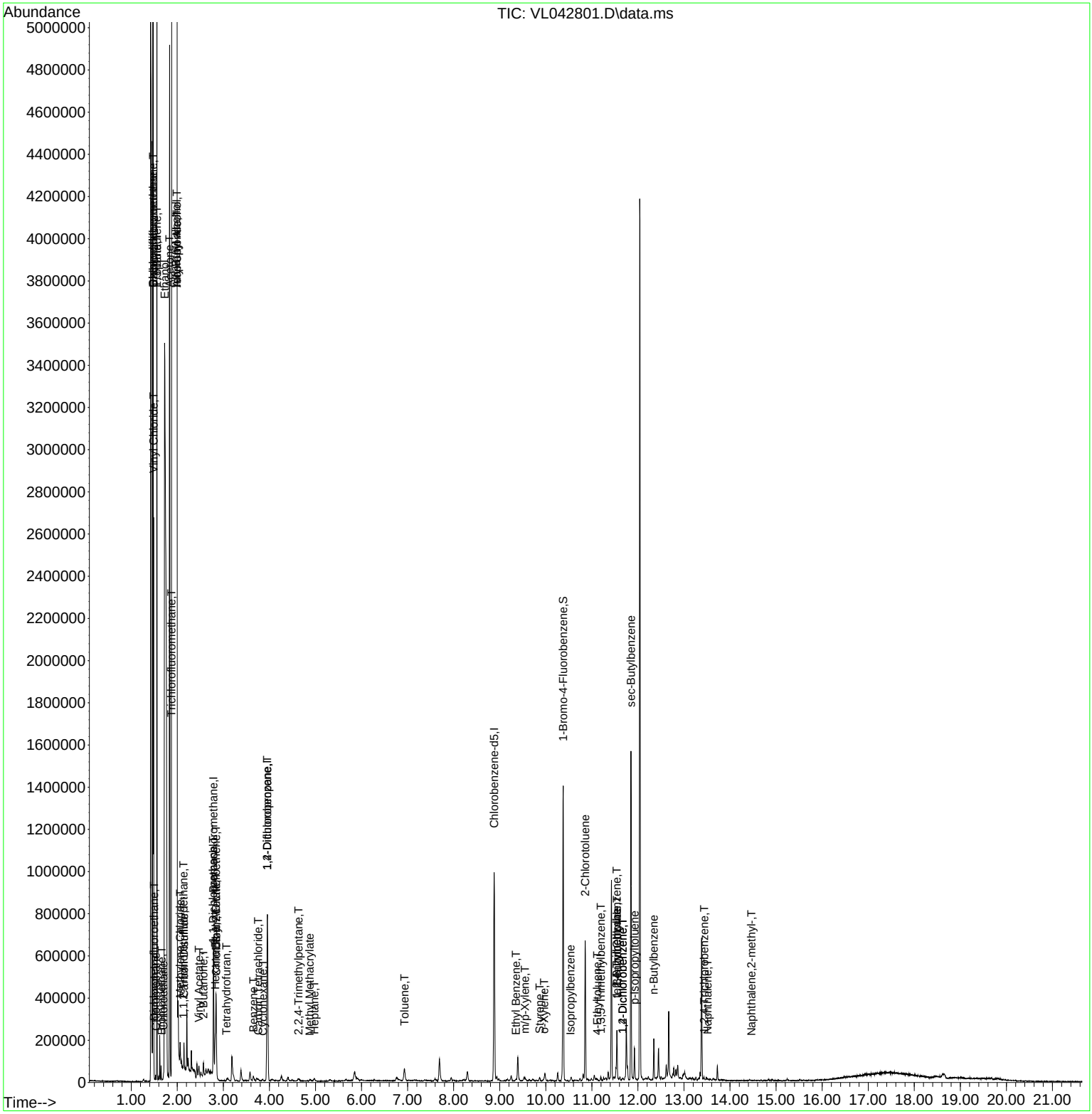
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) n-Butylbenzene	12.345	91	20159	0.263	ppbv		88
71) 2-Chlorotoluene	10.856	91	79400	1.346	ppbv	#	45
72) 4-Ethyltoluene	11.121	105	1700	0.027	ppbv	#	79
73) 1,3,5-Trimethylbenzene	11.199	105	1578	0.031	ppbv	#	68
74) 1,2,4-Trimethylbenzene	11.539	105	8019	0.143	ppbv	#	58
76) 1,4-Dichlorobenzene	11.668	146	2073	0.054	ppbv	#	72
77) 1,2-Dichlorobenzene	11.668	146	2073	0.054	ppbv		76
79) Naphthalene	13.513	128	2540	0.475	ppbv	#	96
80) Naphthalene,2-methyl-	14.468	142	271	1.136	ppbv	#	31
81) 1,2,4-Trichlorobenzene	13.439	180	247	0.442	ppbv	#	84

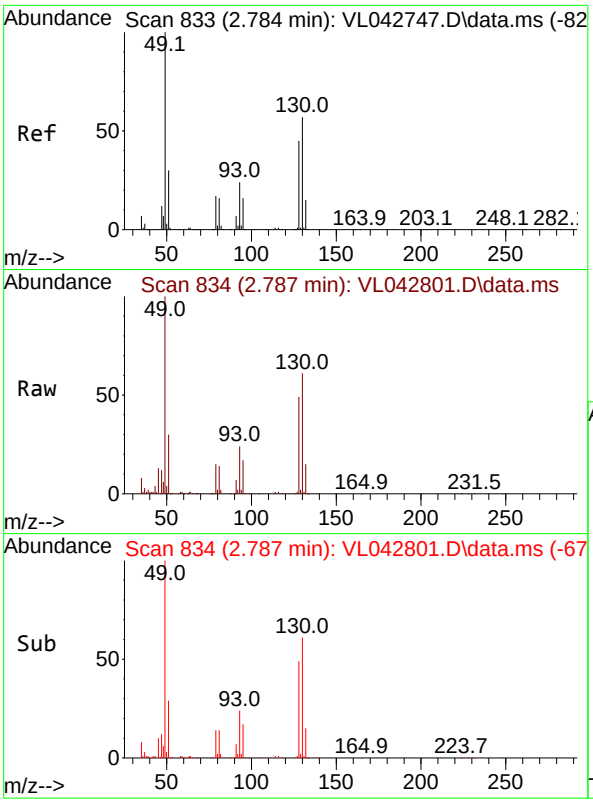
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042801.D
Acq On : 04 Aug 2025 12:56
Operator : SY/MD
Sample : Q2750-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Quant Time: Aug 05 01:03:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



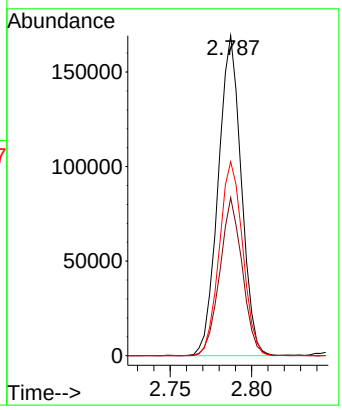


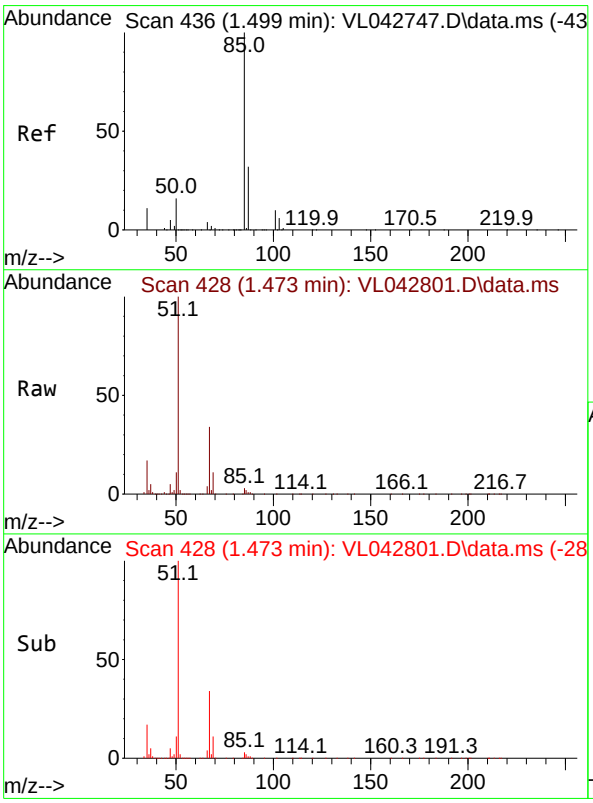
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 49 Resp: 166612

Ion	Ratio	Lower	Upper
49	100		
128	48.0	23.6	71.0
130	61.6	30.3	90.8

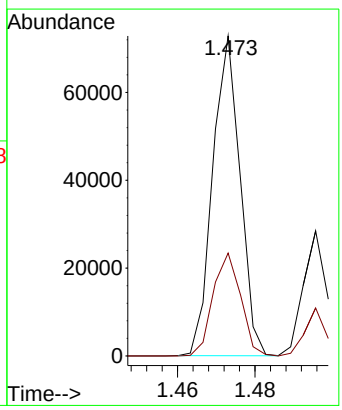


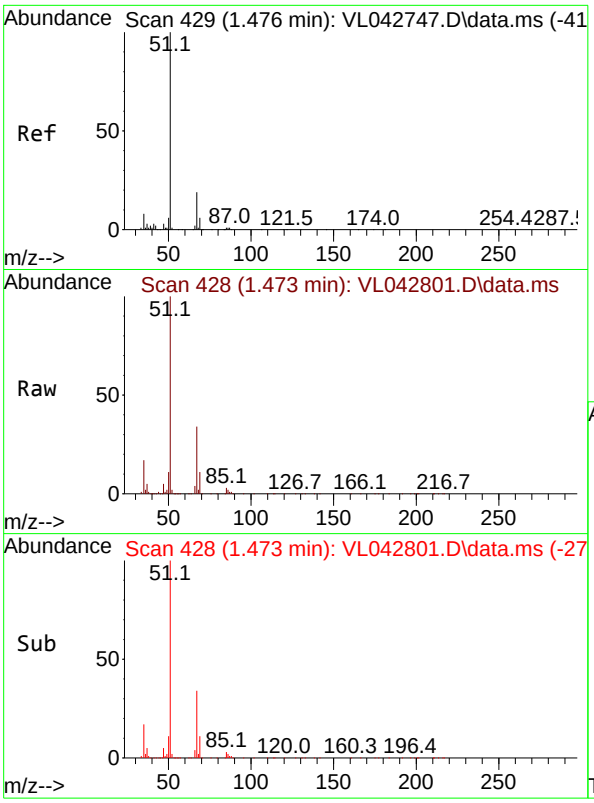


#2
Dichlorodifluoromethane
Concen: 1.623 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.026 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 85 Resp: 35749

Ion	Ratio	Lower	Upper
85	100		
87	32.2	25.4	38.2



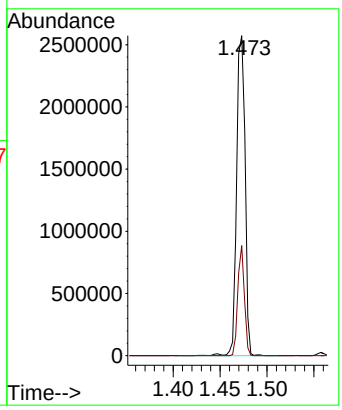


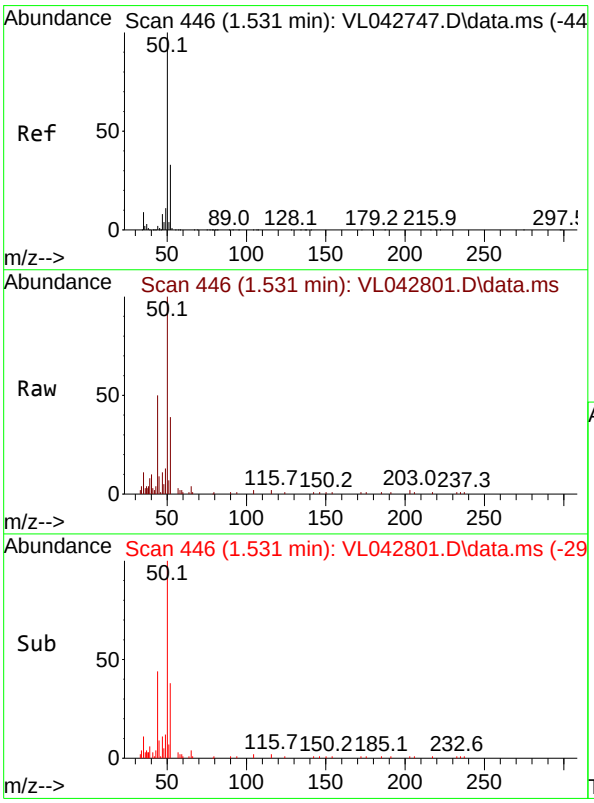
#3
Chlorodifluoromethane
Concen: 56.139 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 51 Resp: 1610964

Ion	Ratio	Lower	Upper
51	100		
67	26.7	15.0	22.6#

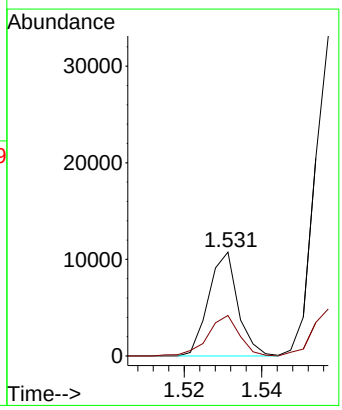


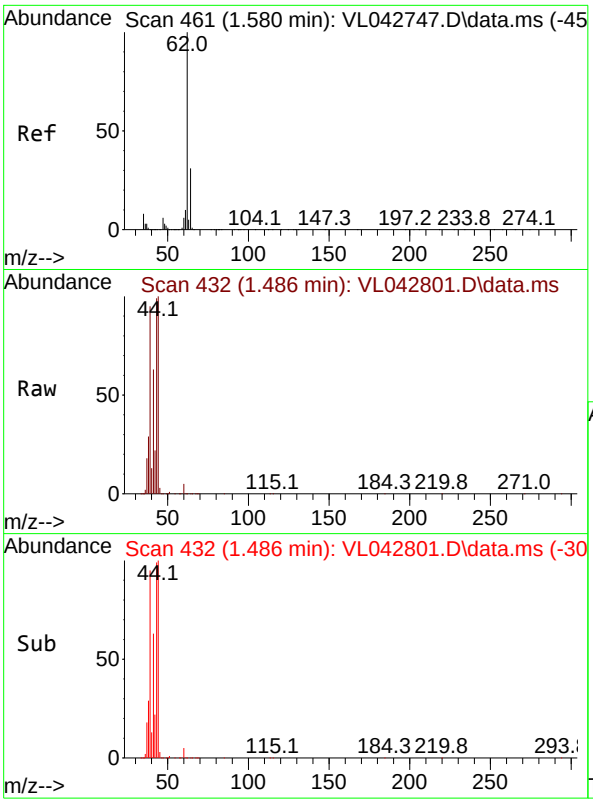


#4
Chloromethane
Concen: 0.635 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 50 Resp: 5658

Ion	Ratio	Lower	Upper
50	100		
52	38.9	26.6	40.0



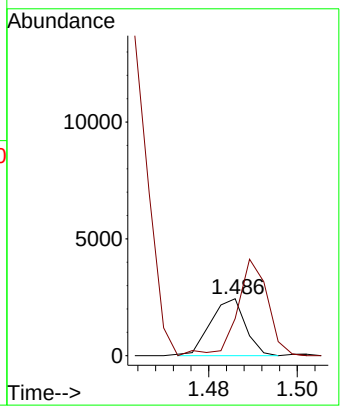


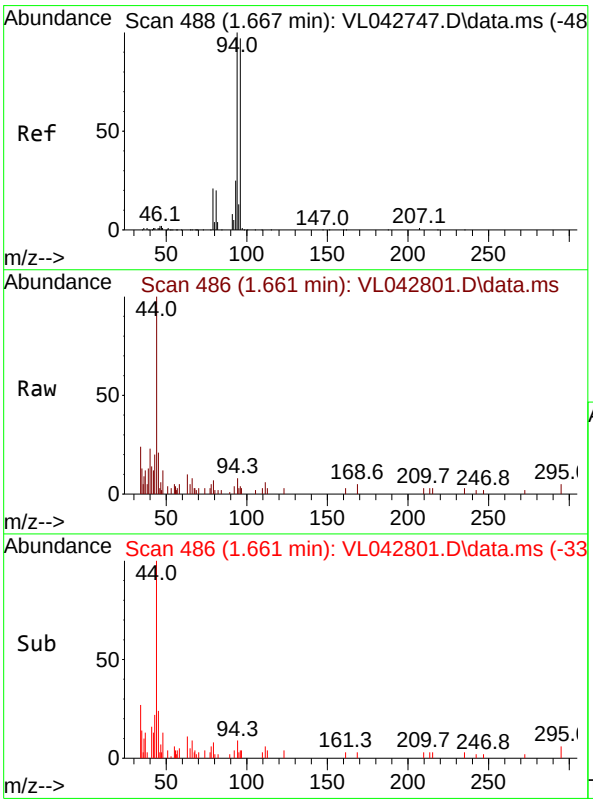
#5
Vinyl Chloride
Concen: 0.151 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.094 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 62 Resp: 1330

Ion	Ratio	Lower	Upper
62	100		
64	65.1	24.5	36.7#

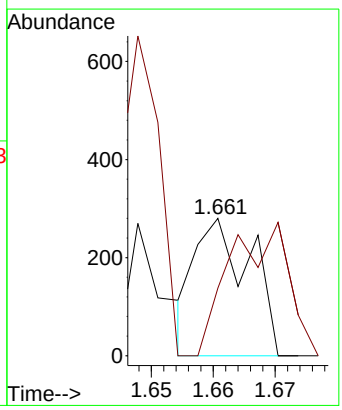


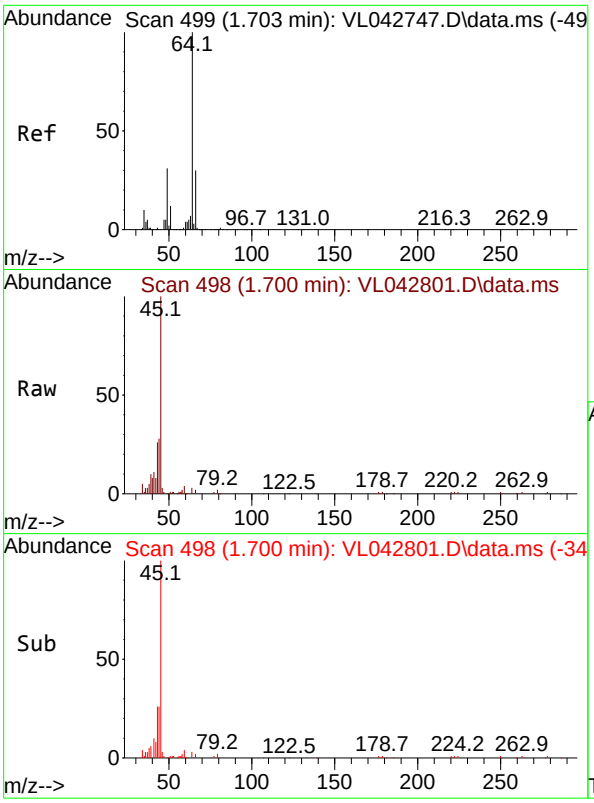


#6
Bromomethane
Concen: 0.051 ppbv
RT: 1.661 min Scan# 486
Delta R.T. -0.006 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 94 Resp: 174

Ion	Ratio	Lower	Upper
94	100		
96	90.4	77.6	116.4



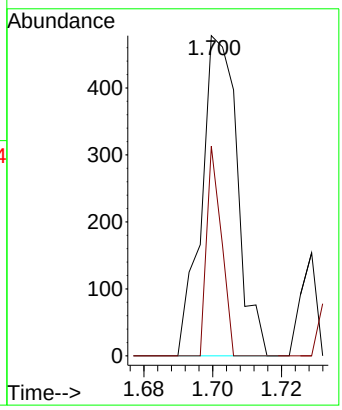


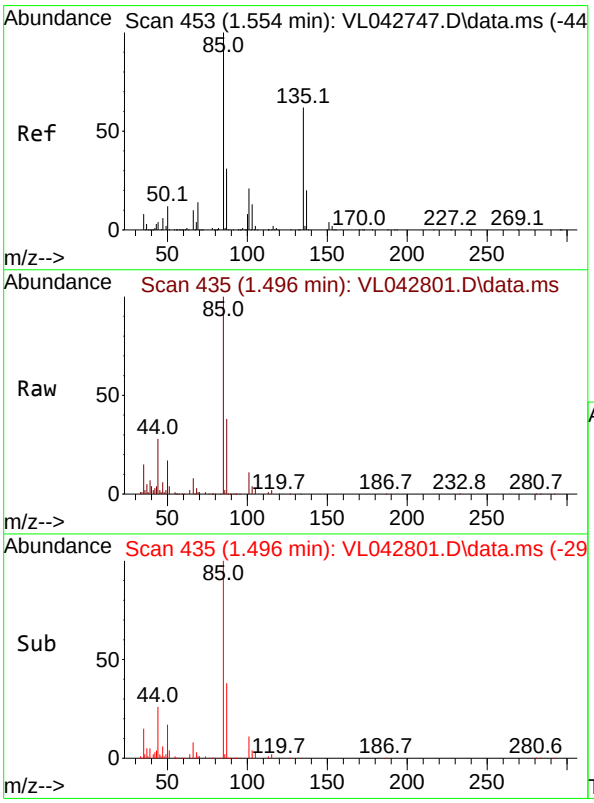
#7
Chloroethane
Concen: 0.101 ppbv
RT: 1.700 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 64 Resp: 345

Ion	Ratio	Lower	Upper
64	100		
66	65.5	24.1	36.1#

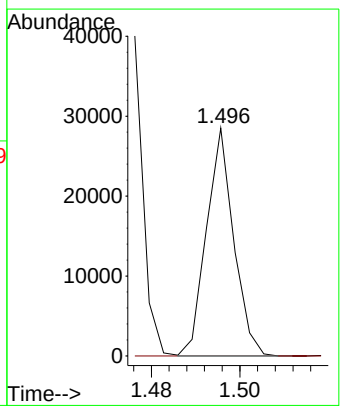


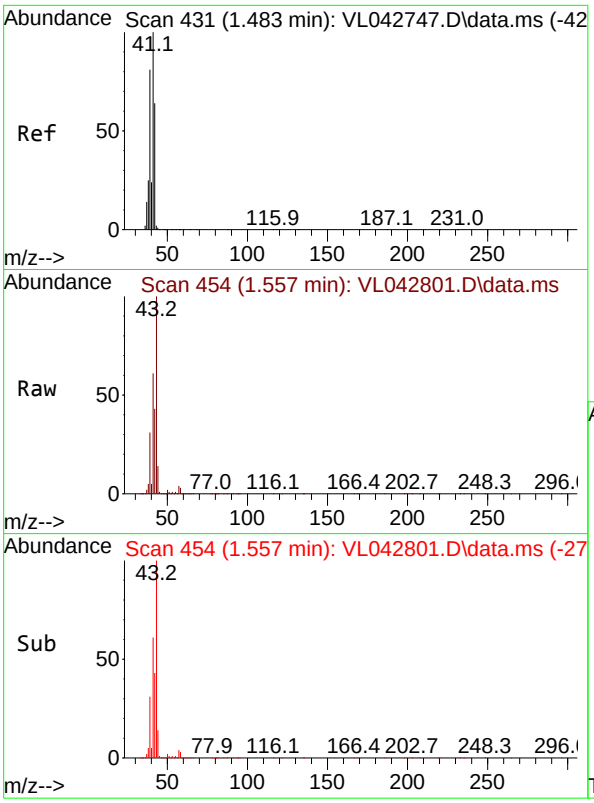


#8
Dichlorotetrafluoroethane
Concen: 0.672 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.058 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 85 Resp: 12177

Ion	Ratio	Lower	Upper
85	100		
135	1.8	50.6	76.0#



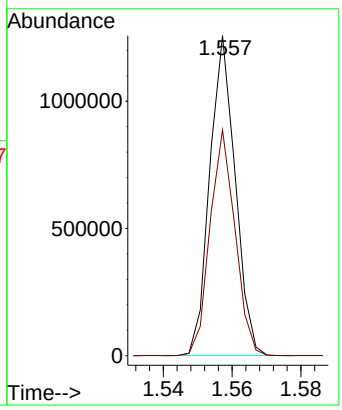


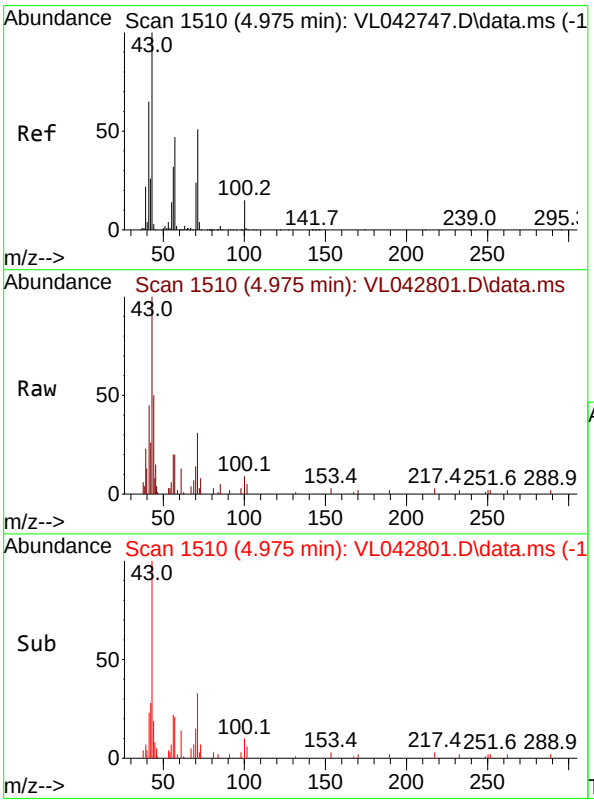
#9
Propene
Concen: 62.113 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.075 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 41 Resp: 647804

Ion	Ratio	Lower	Upper
41	100		
42	69.5	53.2	79.8

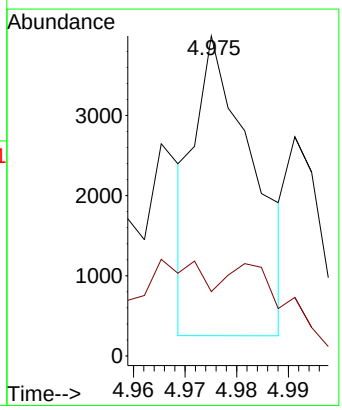


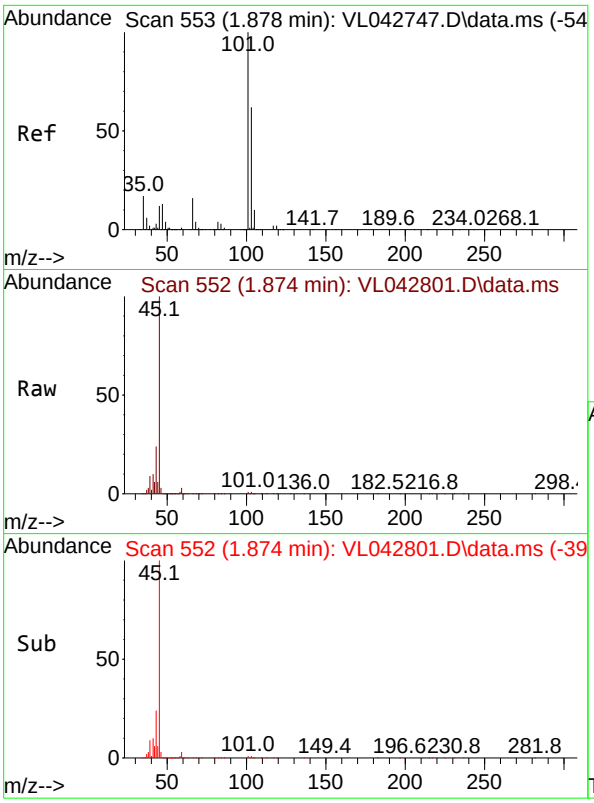


#10
Heptane
Concen: 0.103 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 43 Resp: 2899

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.9	59.9#



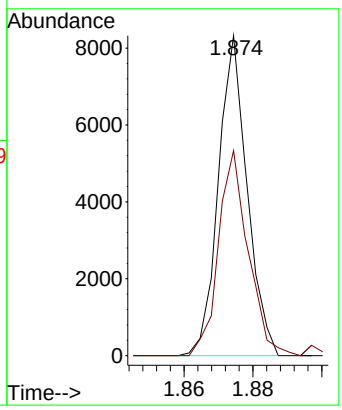


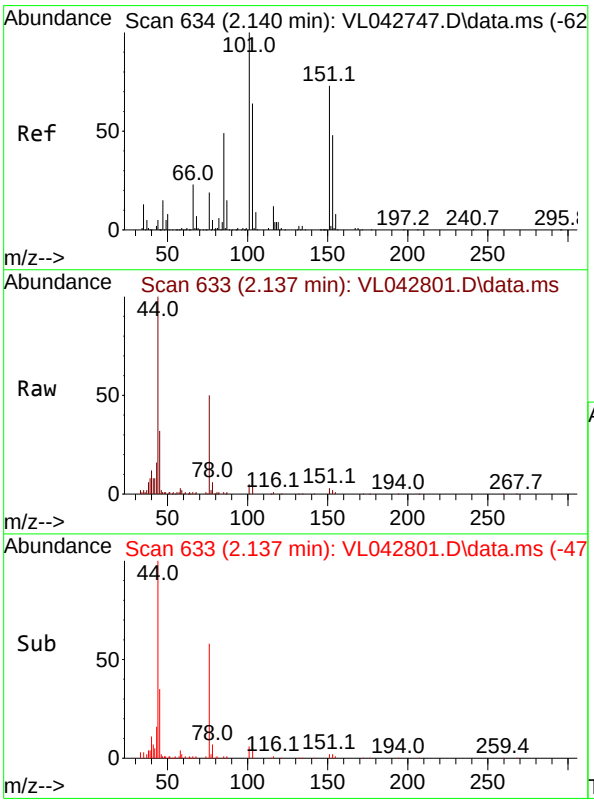
#11
Trichlorofluoromethane
Concen: 0.212 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion:101 Resp: 4819

Ion	Ratio	Lower	Upper
101	100		
103	64.1	49.6	74.4

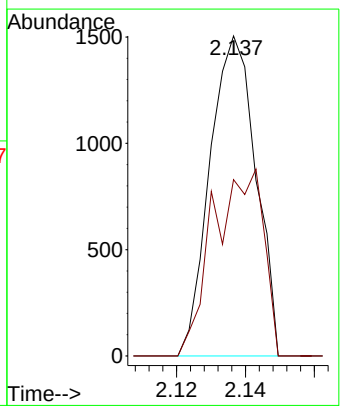


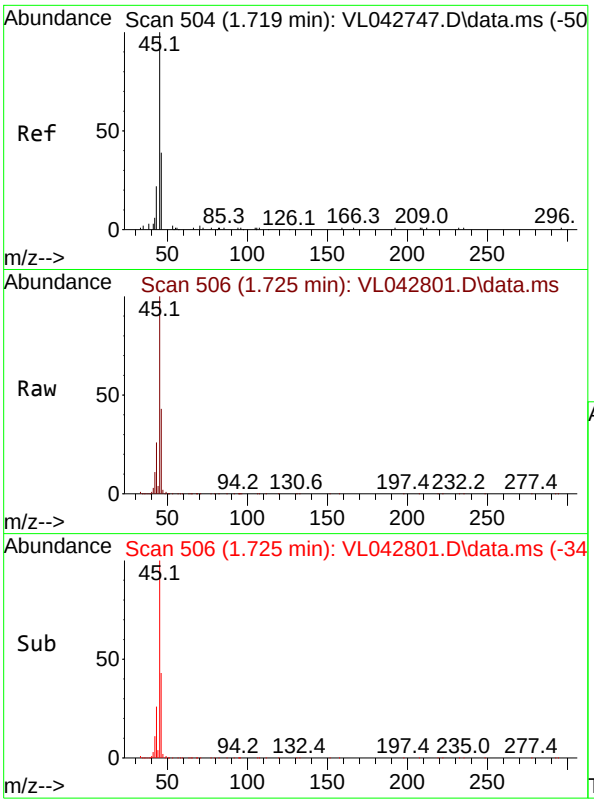


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.081 ppbv
RT: 2.137 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:101 Resp: 1393

Ion	Ratio	Lower	Upper
101	100		
151	64.2	60.5	90.7



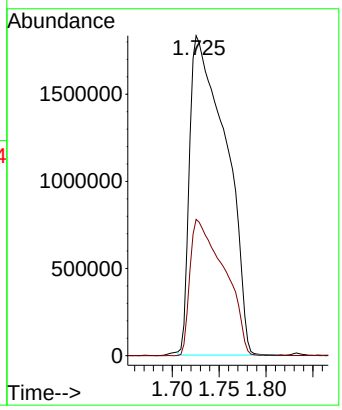


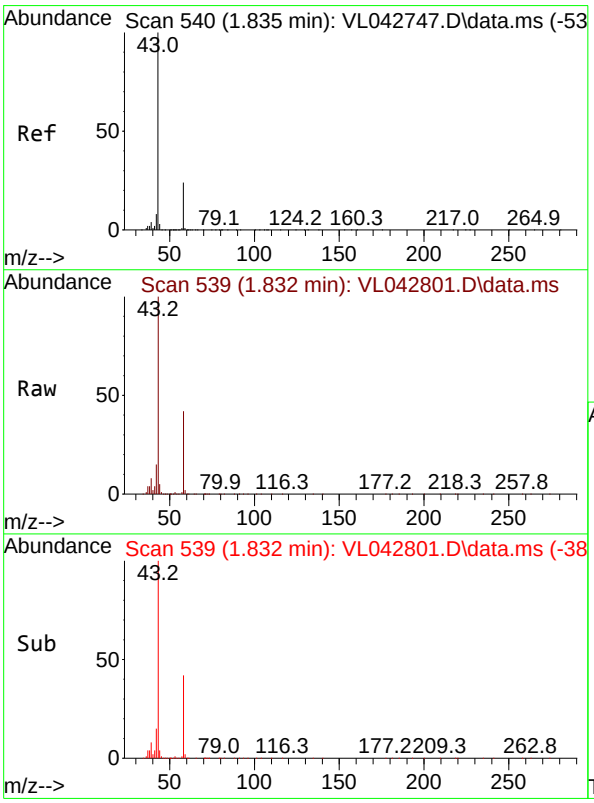
#13
Ethanol
Concen: 6463.202 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 45 Resp: 4909025

Ion	Ratio	Lower	Upper
45	100		
46	40.7	17.8	71.4

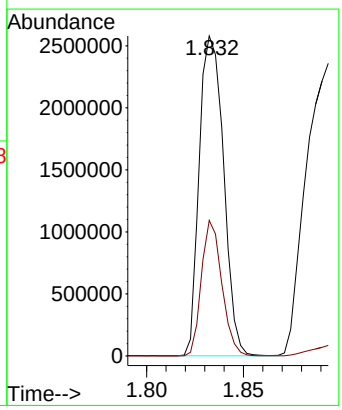


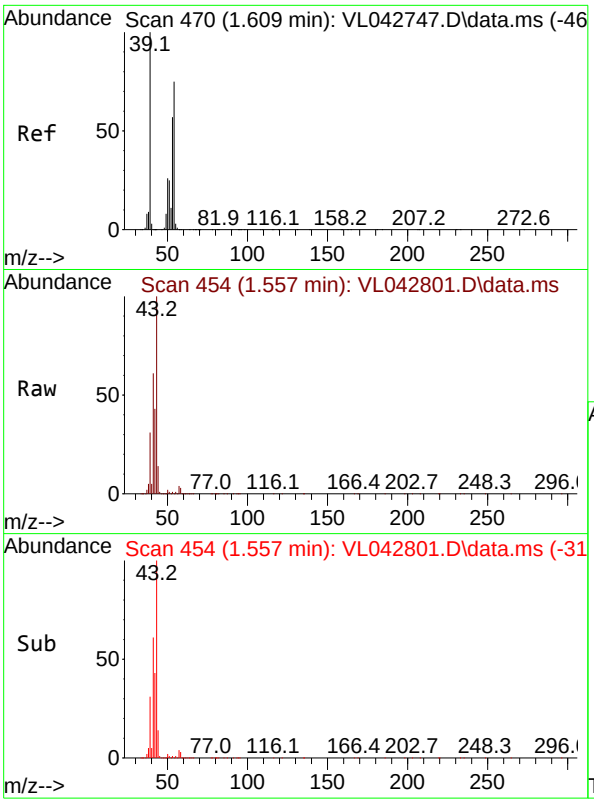


#15
Acetone
Concen: 98.047 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 43 Resp: 2255724

Ion	Ratio	Lower	Upper
43	100		
58	35.6	19.8	29.8#



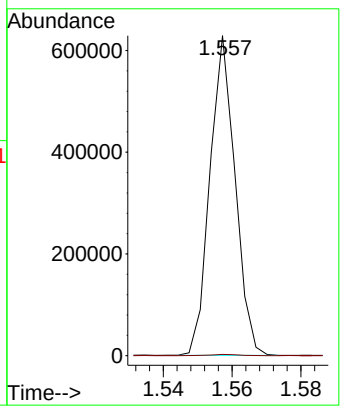


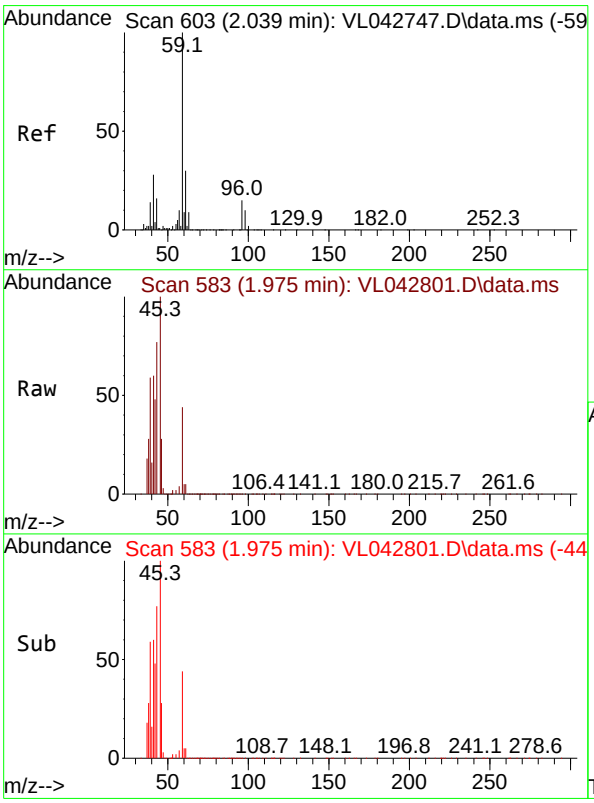
#16
1,3-Butadiene
Concen: 32.609 ppbv
RT: 1.557 min Scan# 4
Delta R.T. -0.052 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 39 Resp: 320001

Ion	Ratio	Lower	Upper
39	100		
54	0.5	54.5	81.7#

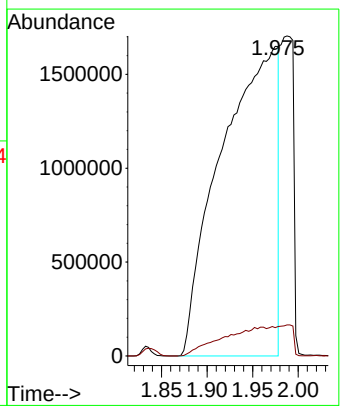


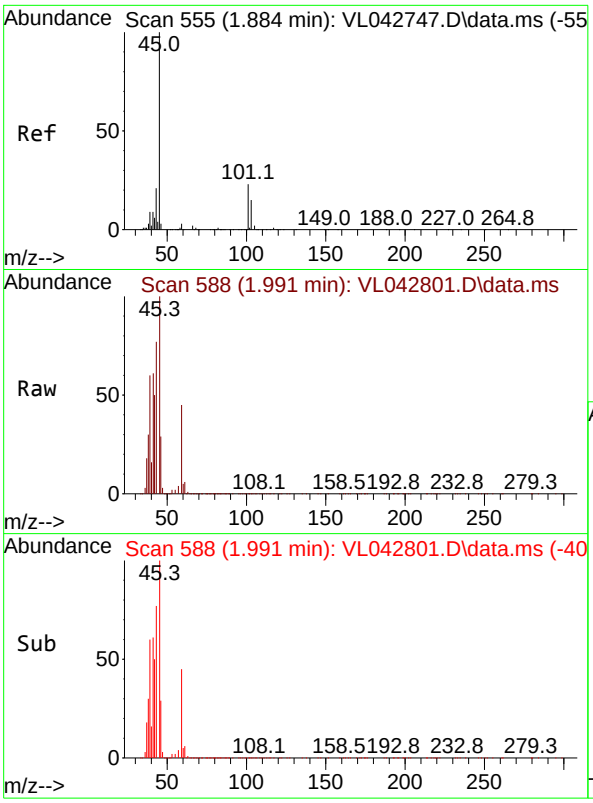


#17
tert-Butyl alcohol
Concen: 341.627 ppbv
RT: 1.975 min Scan# 583
Delta R.T. -0.065 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 59 Resp: 7088595

Ion	Ratio	Lower	Upper
59	100		
57	11.4	8.3	12.5



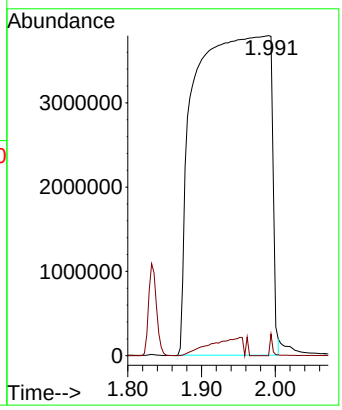


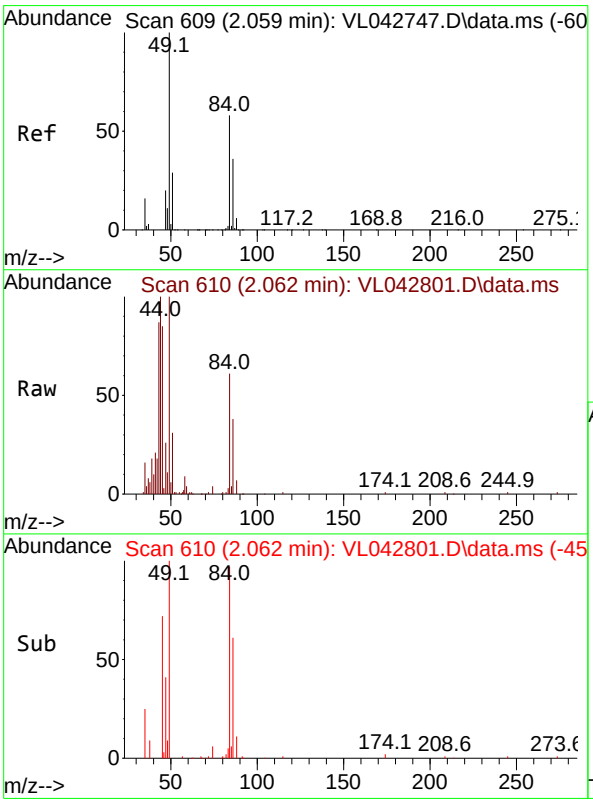
#19
Isopropyl Alcohol
Concen: 2164.446 ppbv
RT: 1.991 min Scan# 5
Delta R.T. 0.107 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 45 Resp:26462371

Ion	Ratio	Lower	Upper
45	100		
58	0.3	30.0	45.0#

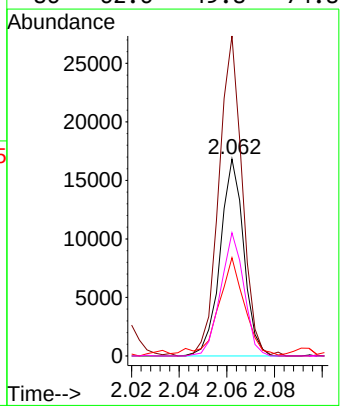


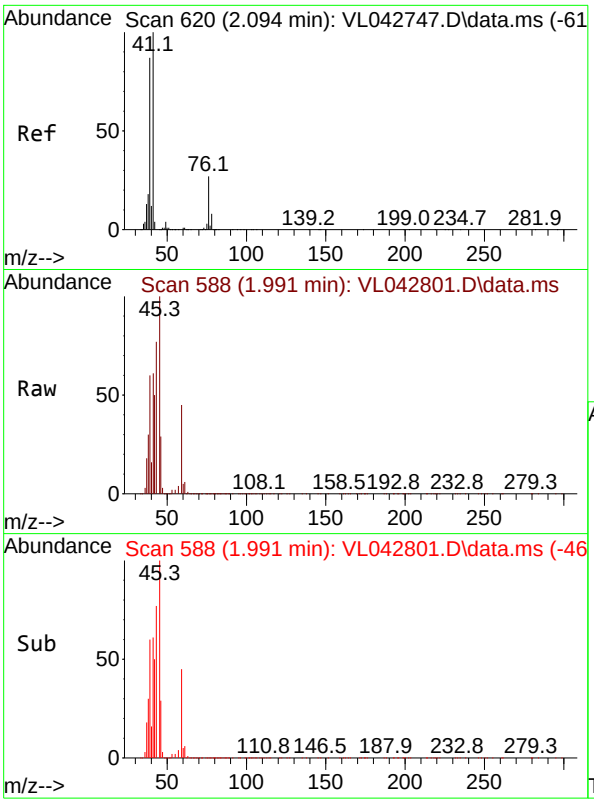


#20
Methylene Chloride
Concen: 1.591 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 84 Resp: 11537

Ion	Ratio	Lower	Upper
84	100		
49	162.5	138.6	208.0
51	49.4	40.6	61.0
86	62.6	49.8	74.8



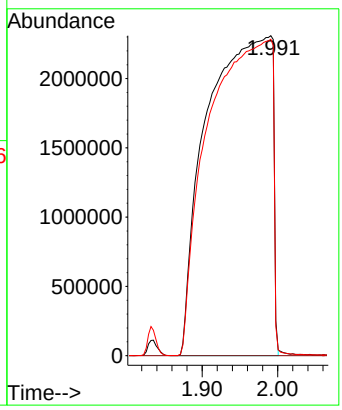


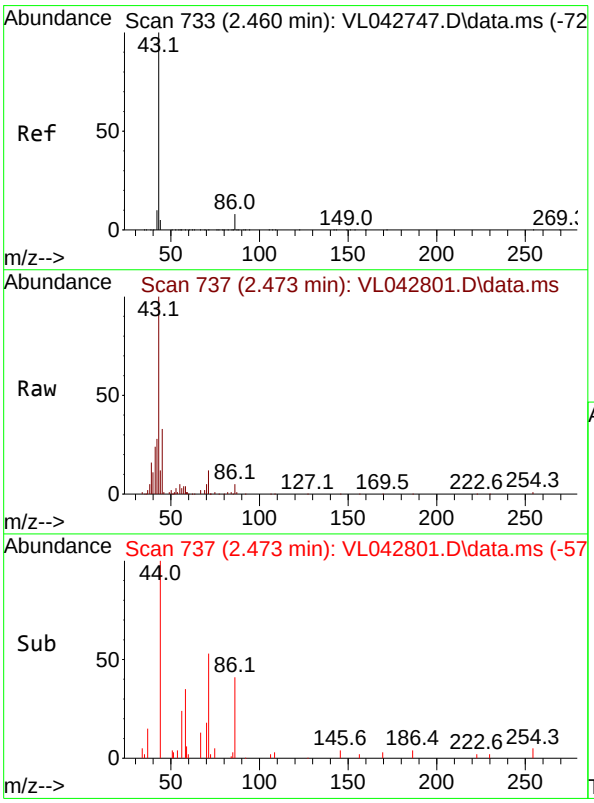
#21
Allyl Chloride
Concen: 966.253 ppbv
RT: 1.991 min Scan# 5
Delta R.T. -0.103 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 41 Resp:13700738

Ion	Ratio	Lower	Upper
41	100		
76	0.5	21.1	31.7#
39	97.1	68.3	102.5

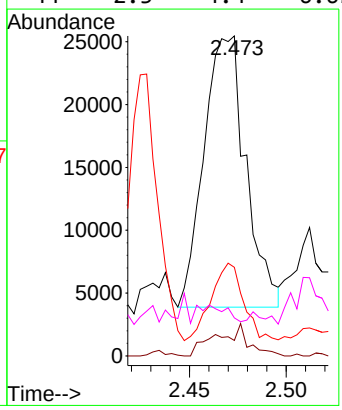


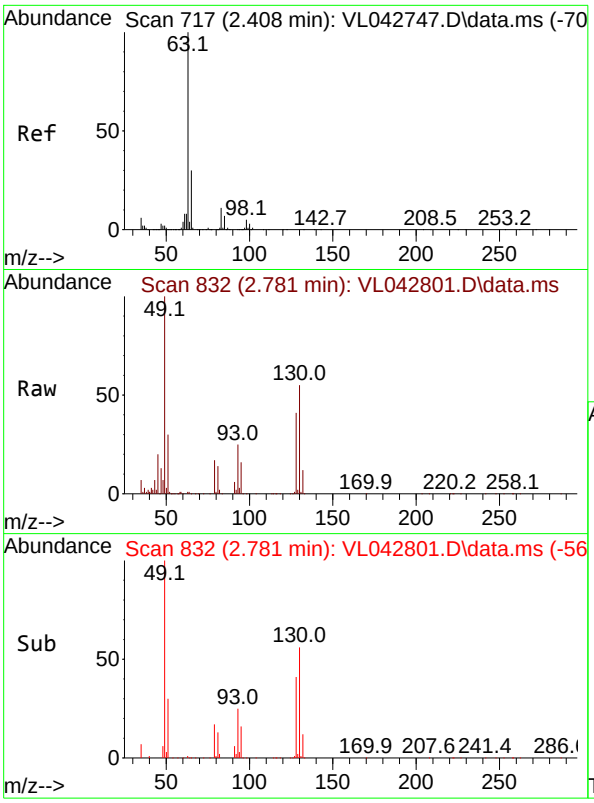


#23
Vinyl Acetate
Concen: 1.164 ppbv
RT: 2.473 min Scan# 737
Delta R.T. 0.013 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 43 Resp: 32455

Ion	Ratio	Lower	Upper
43	100		
86	5.4	6.1	9.1#
42	26.7	7.8	11.8#
44	2.3	4.4	6.6#



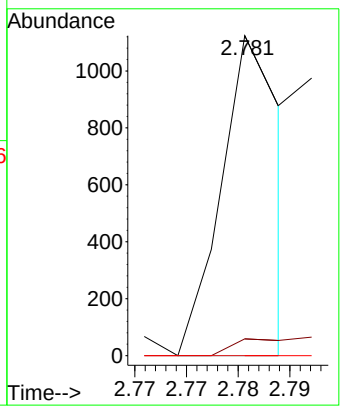


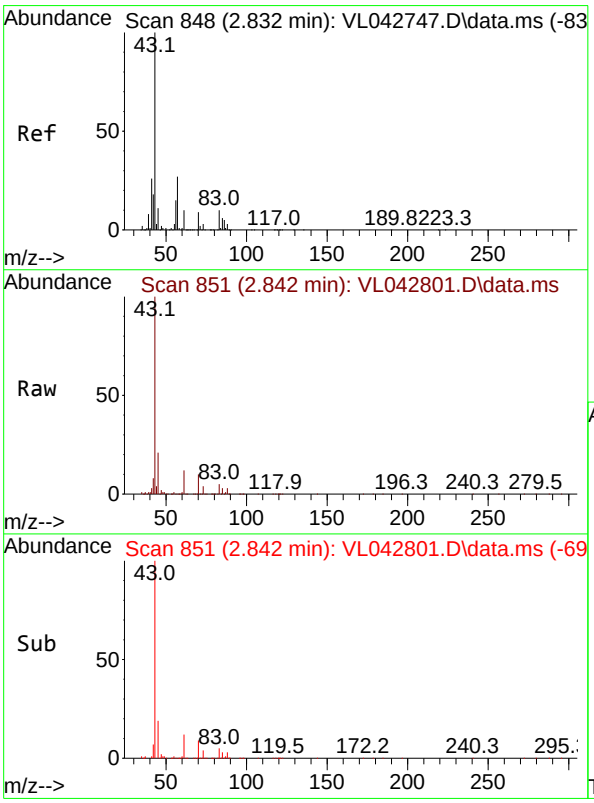
#24
1,1-Dichloroethane
Concen: 0.027 ppbv
RT: 2.781 min Scan# 8
Delta R.T. 0.372 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 63 Resp: 461

Ion	Ratio	Lower	Upper
63	100		
98	3.5	2.5	7.4
100	0.0	1.6	4.8#

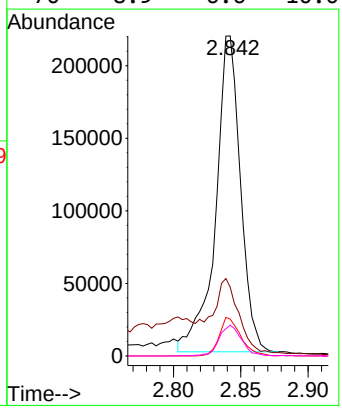


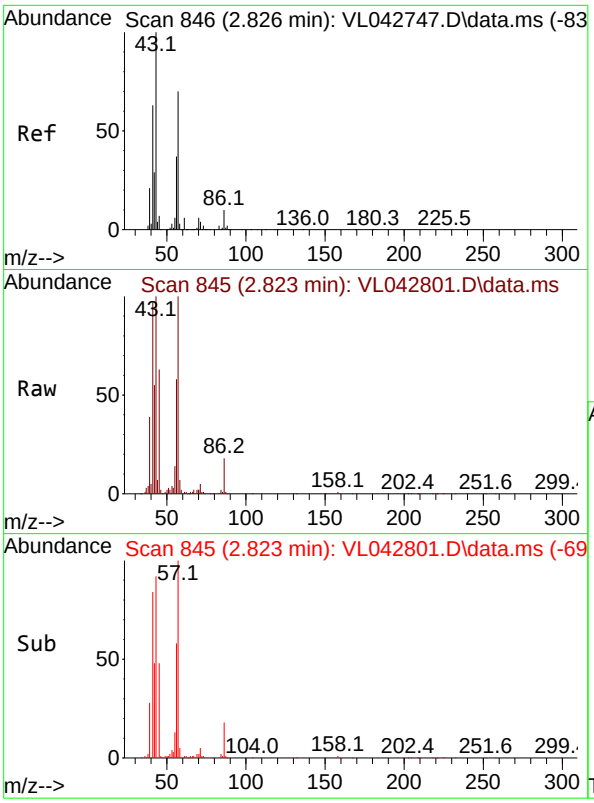


#25
Ethyl Acetate
Concen: 5.491 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 43 Resp: 279610

Ion	Ratio	Lower	Upper
43	100		
45	60.9	7.8	11.6#
61	10.5	6.7	10.1#
70	8.9	6.6	10.0



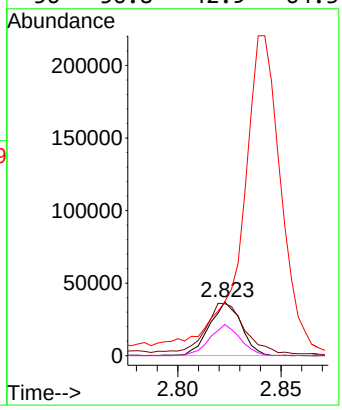


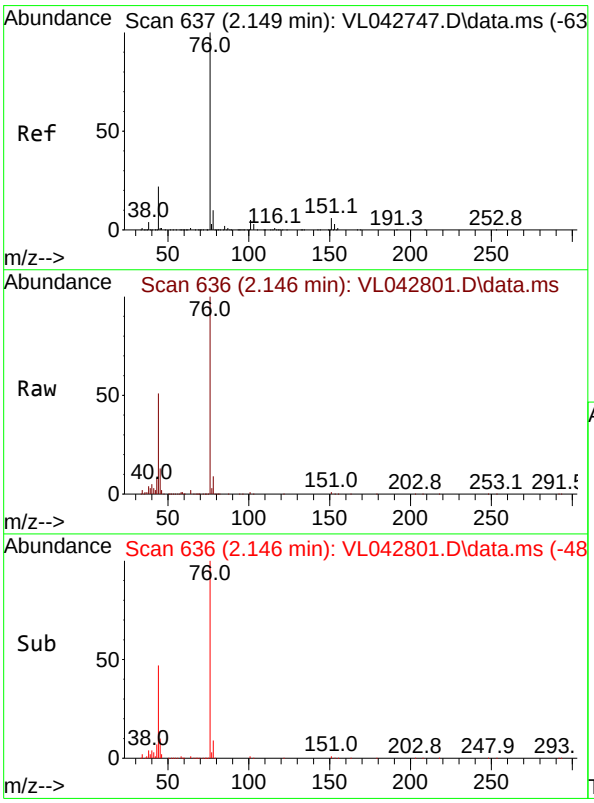
#26
Hexane
Concen: 1.741 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 57 Resp: 38882

Ion	Ratio	Lower	Upper
57	100		
41	138.8	75.4	113.2#
43	810.0	185.0	277.6#
56	56.8	42.9	64.3

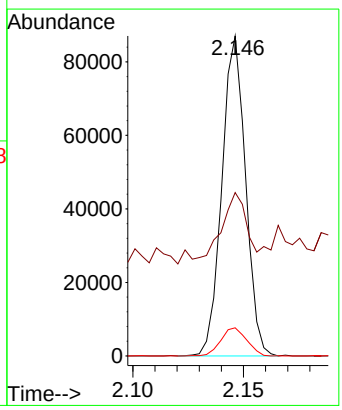


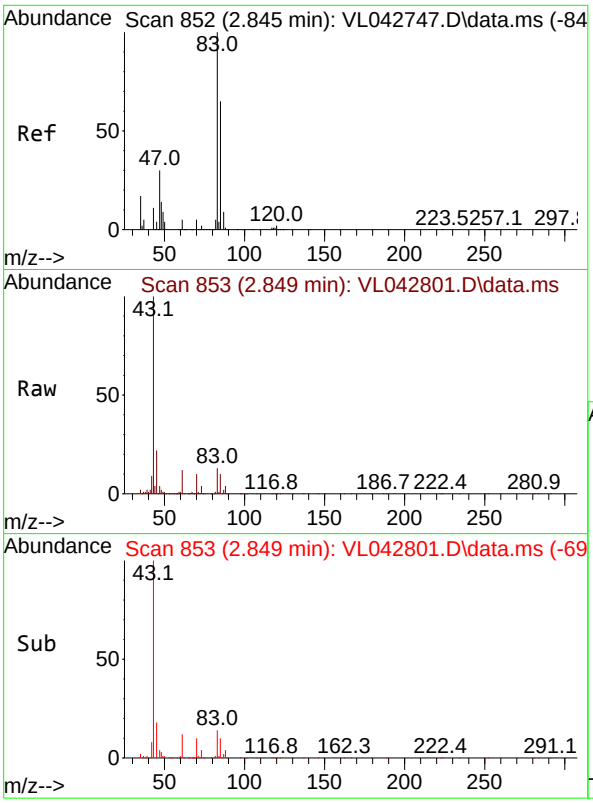


#27
Carbon Disulfide
Concen: 3.386 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 76 Resp: 64759

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.7	9.9	14.9#



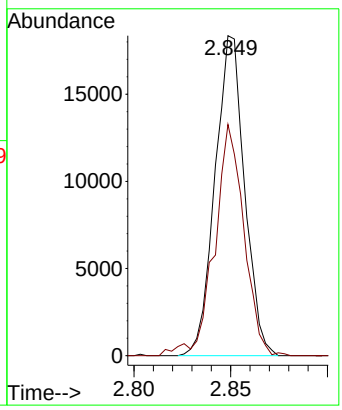


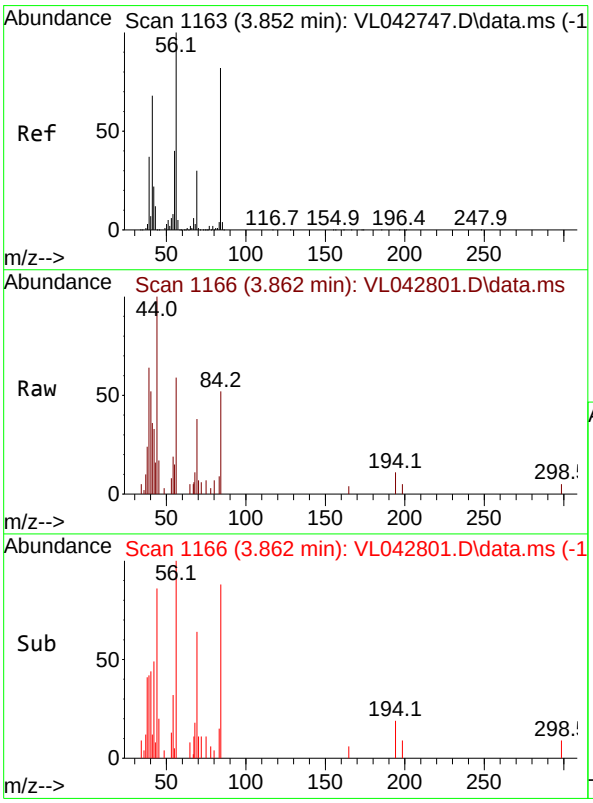
#29
Chloroform
Concen: 0.564 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 83 Resp: 19459

Ion	Ratio	Lower	Upper
83	100		
85	71.4	52.2	78.2

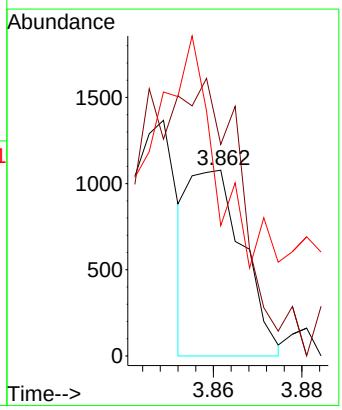


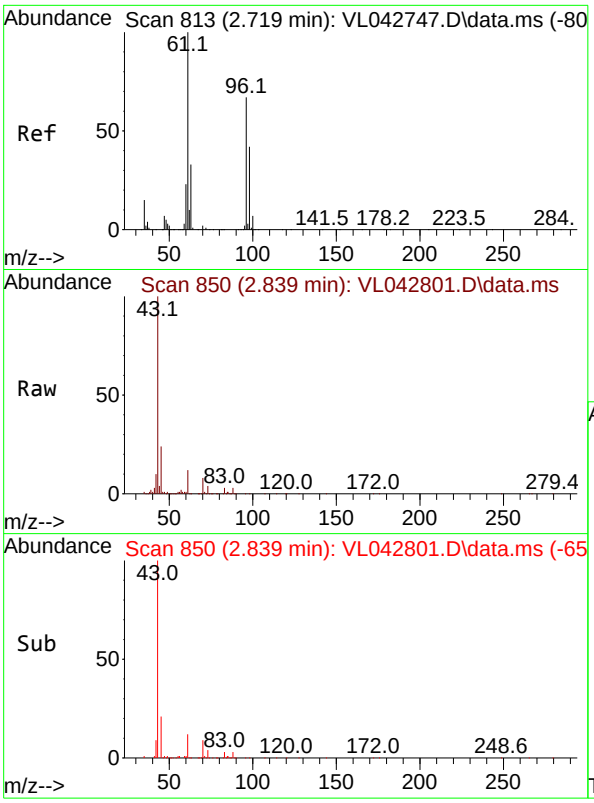


#30
Cyclohexane
Concen: 0.049 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.010 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 84 Resp: 919

Ion	Ratio	Lower	Upper
84	100		
56	342.0	97.5	146.3#
41	474.8	67.2	100.8#



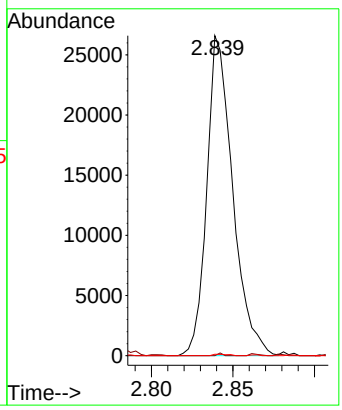


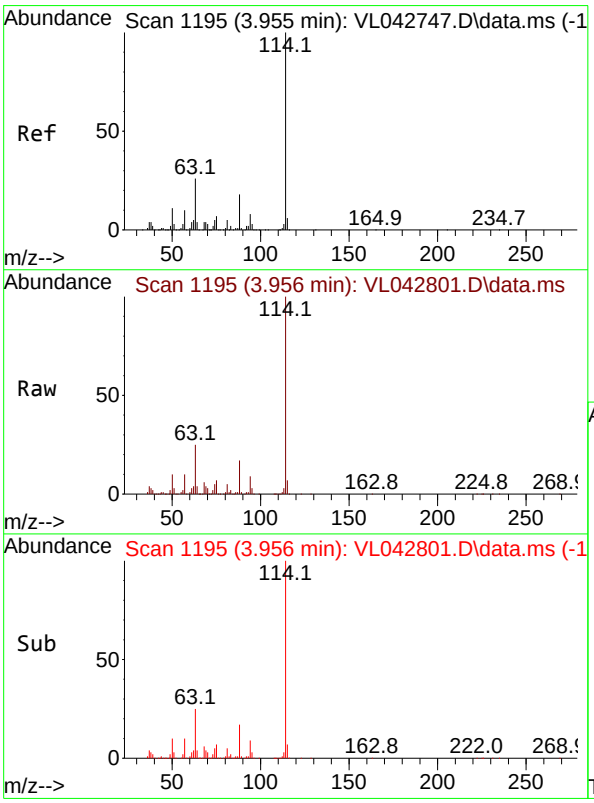
#31
cis-1,2-Dichloroethene
Concen: 1.279 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.120 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 61 Resp: 29364

Ion	Ratio	Lower	Upper
61	100		
96	0.0	53.5	80.3#
98	0.5	33.6	50.4#

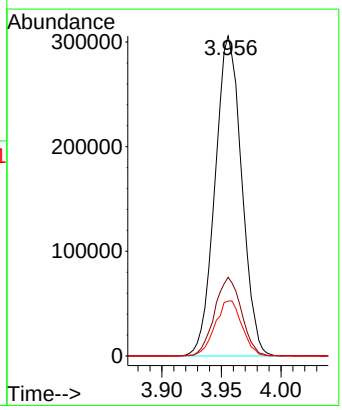


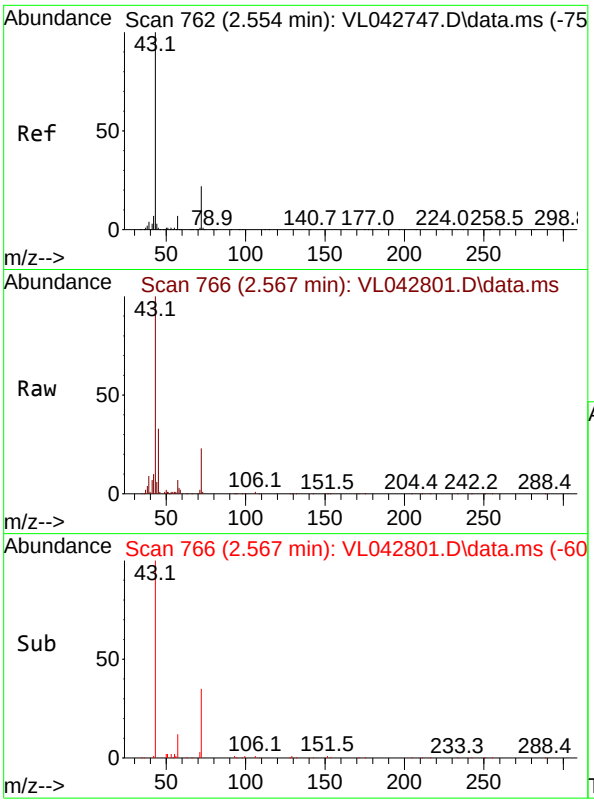


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:114 Resp: 474561

Ion	Ratio	Lower	Upper
114	100		
63	24.8	20.5	30.7
88	17.4	14.0	21.0



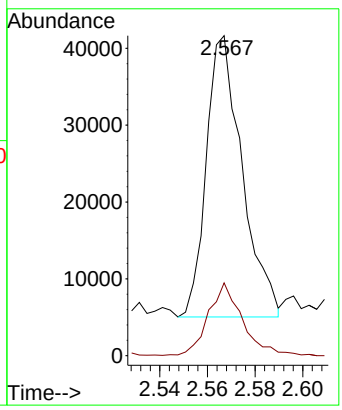


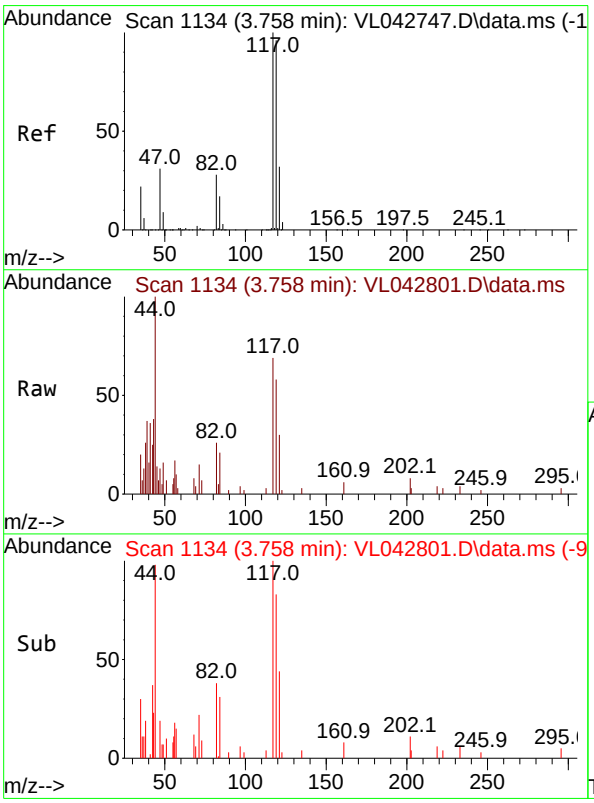
#34
2-Butanone
Concen: 1.136 ppbv
RT: 2.567 min Scan# 7
Delta R.T. 0.013 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 43 Resp: 38173

Ion	Ratio	Lower	Upper
43	100		
72	24.8	17.4	26.0

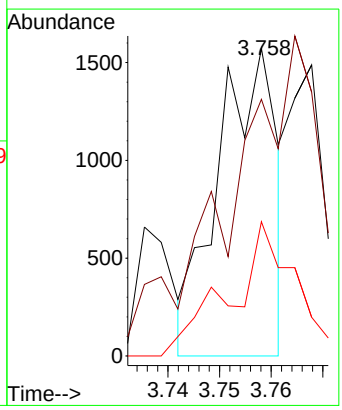


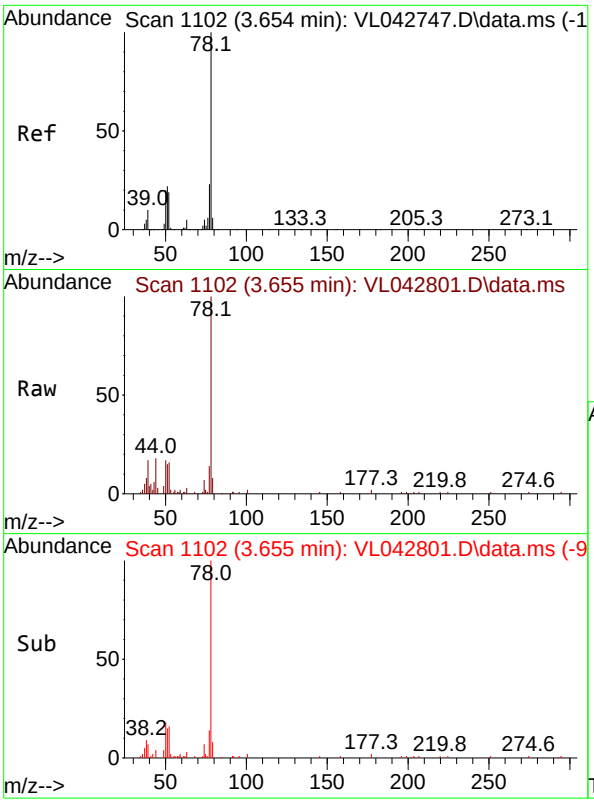


#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:117 Resp: 1236

Ion	Ratio	Lower	Upper
117	100		
119	83.5	77.1	115.7
121	45.7	25.5	38.3#



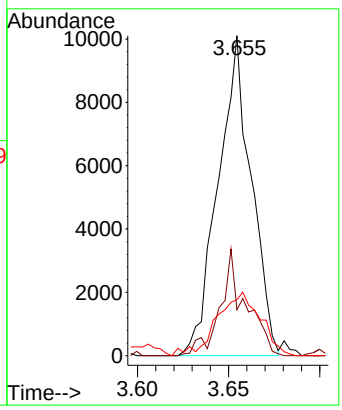


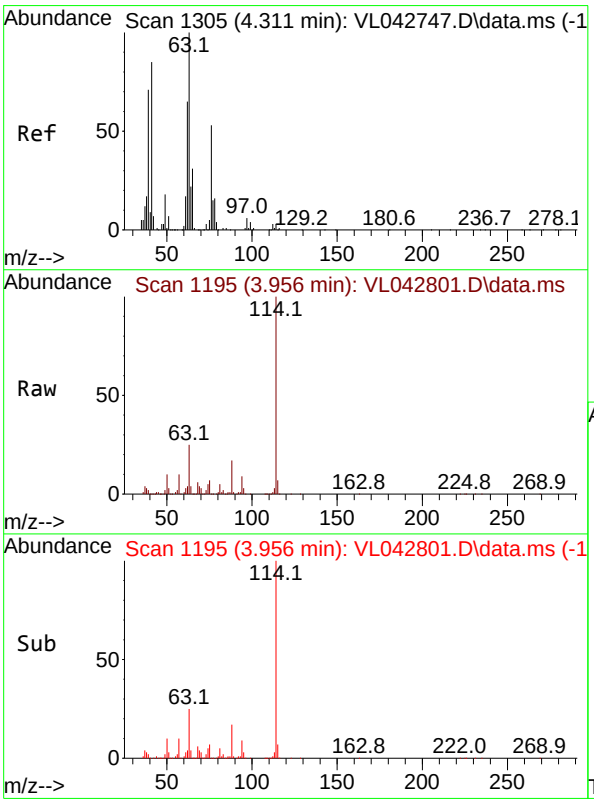
#36
Benzene
Concen: 0.284 ppbv
RT: 3.655 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 78 Resp: 12792

Ion	Ratio	Lower	Upper
78	100		
77	14.4	18.5	27.7#
50	15.2	16.2	24.2#

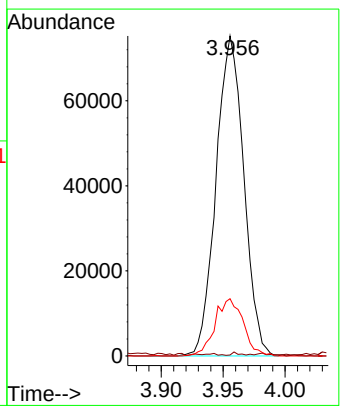


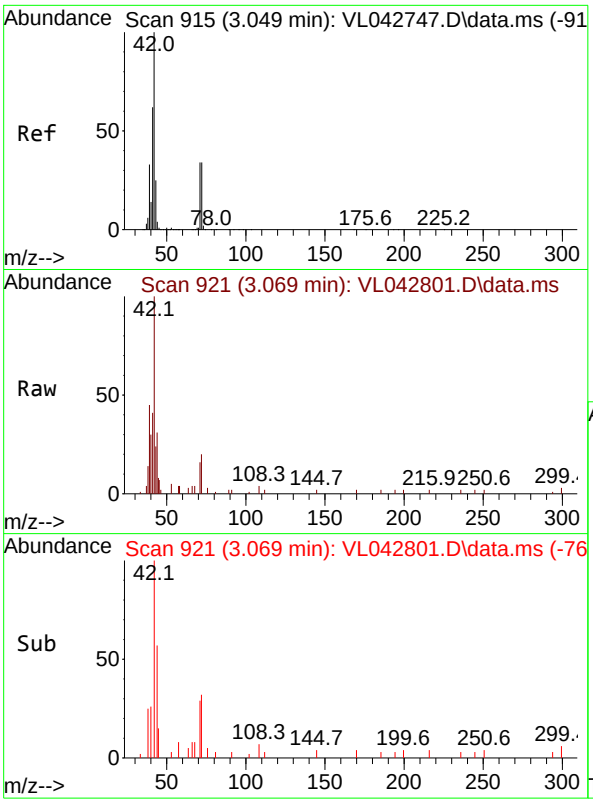


#39
1,2-Dichloropropane
Concen: 7.080 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 63 Resp: 117534

Ion	Ratio	Lower	Upper
63	100		
41	0.0	68.2	102.4#
62	17.9	52.0	78.0#



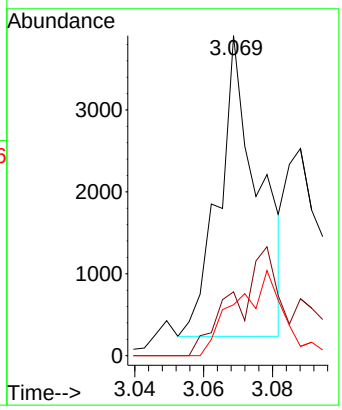


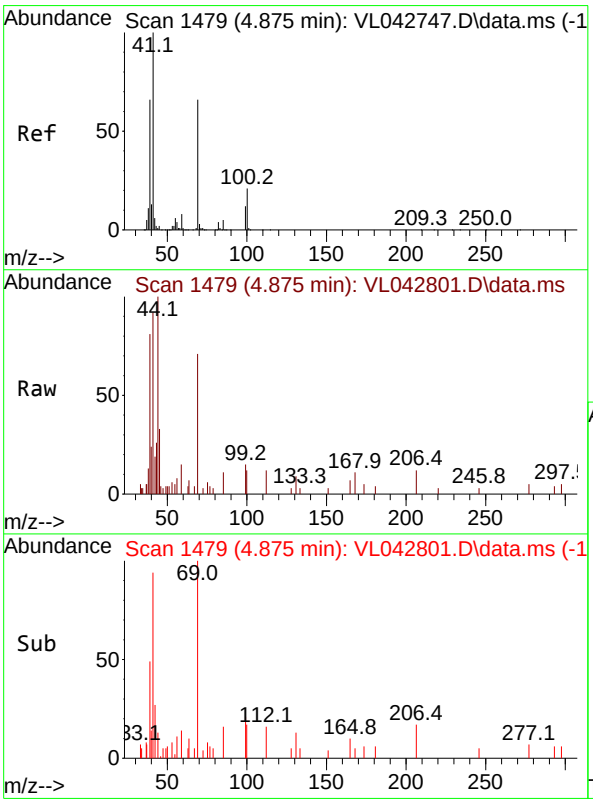
#41
Tetrahydrofuran
Concen: 0.170 ppbv
RT: 3.069 min Scan# 9
Delta R.T. 0.020 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 42 Resp: 2916

Ion	Ratio	Lower	Upper
42	100		
72	66.4	30.9	46.3#
71	34.8	28.6	43.0

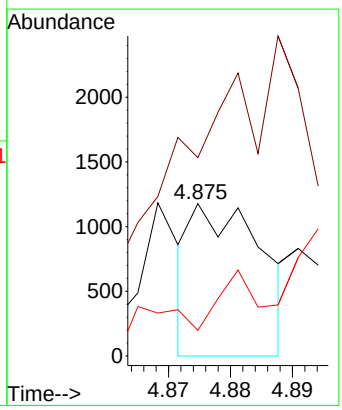


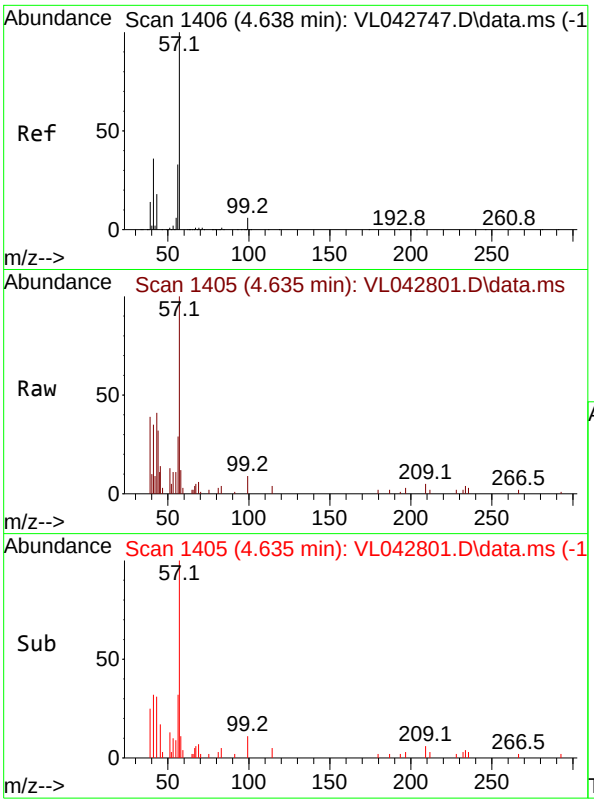


#43
Methyl Methacrylate
Concen: 0.058 ppbv
RT: 4.875 min Scan# 1479
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 69 Resp: 933

Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	0.0	28.6	42.8#



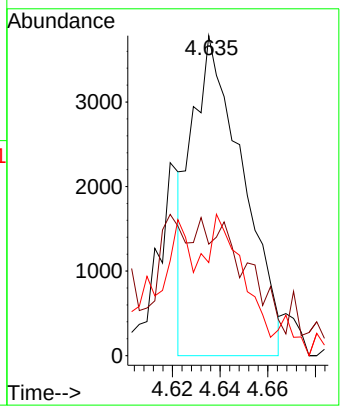


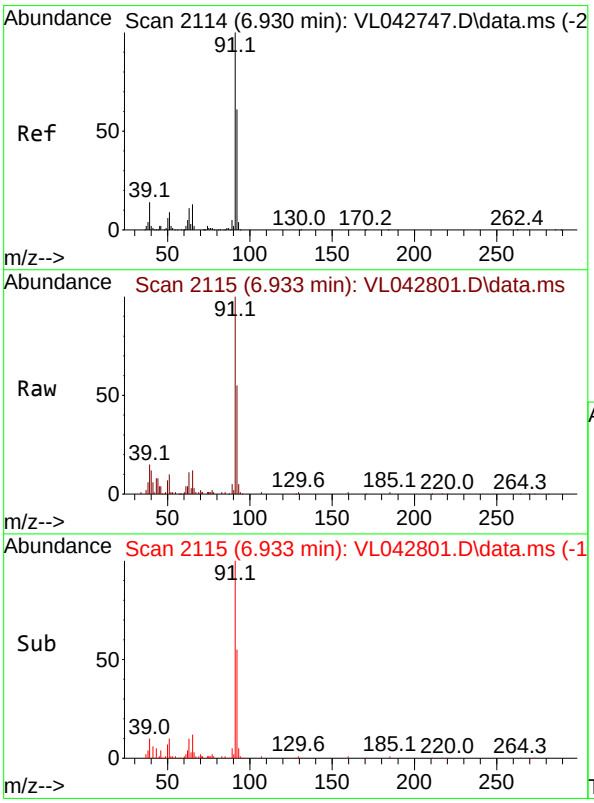
#44
2,2,4-Trimethylpentane
Concen: 0.077 ppbv
RT: 4.635 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 57 Resp: 5675

Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.3	42.5#
56	78.8	25.8	38.6#

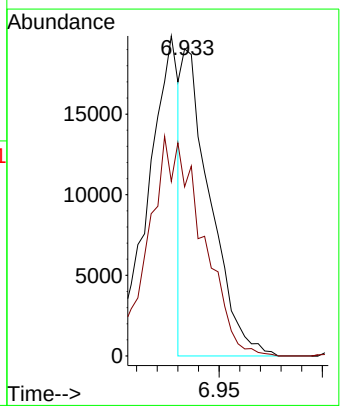


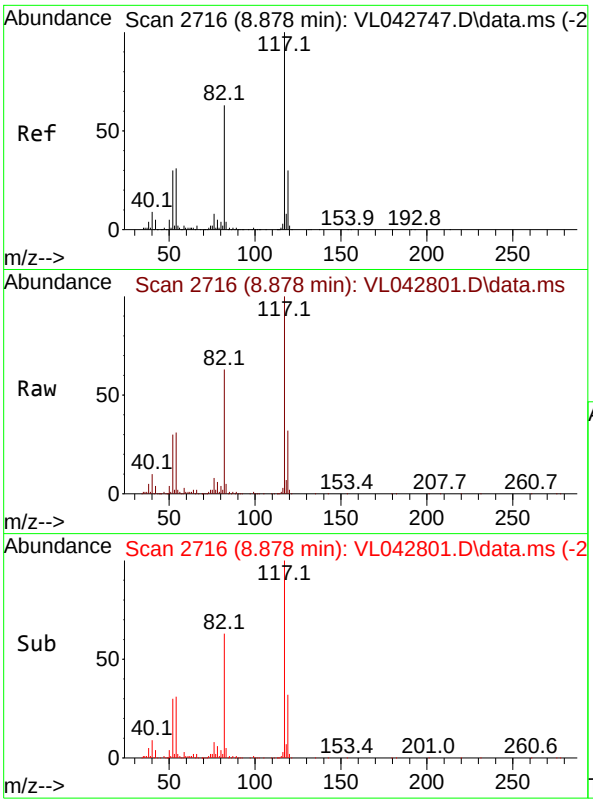


#53
Toluene
Concen: 0.375 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 91 Resp: 18109

Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.0	72.0#



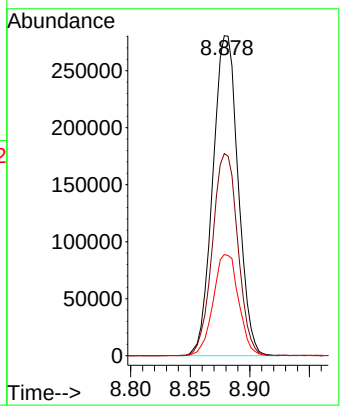


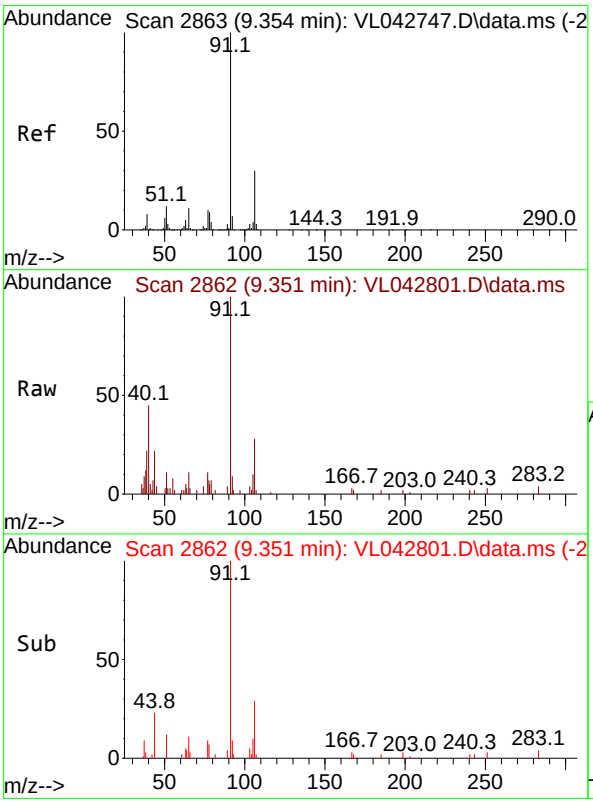
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion:117 Resp: 413546

Ion	Ratio	Lower	Upper
117	100		
82	63.7	53.3	79.9
119	31.8	25.8	38.6

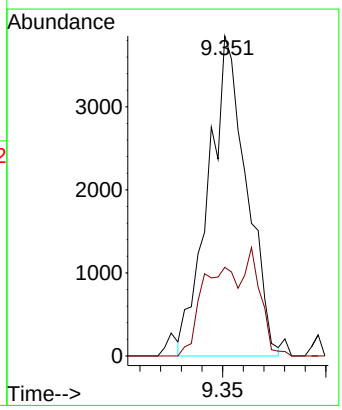


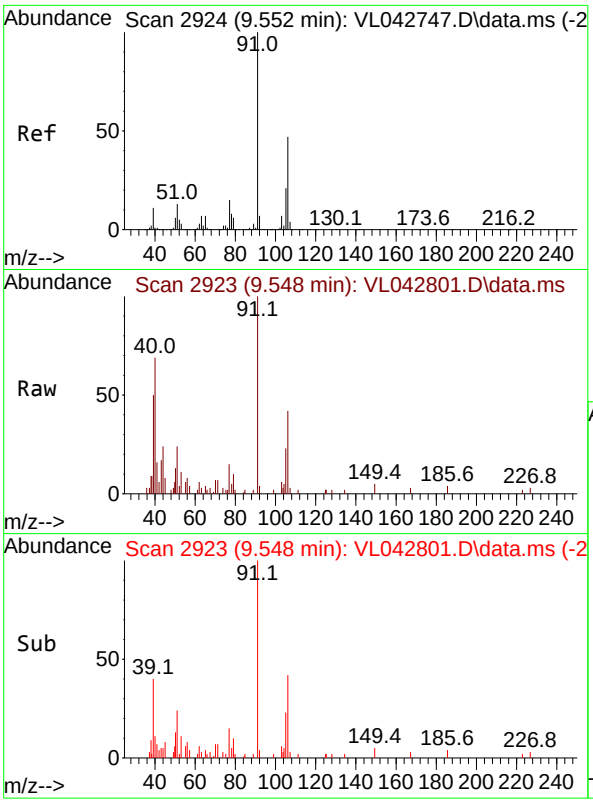


#58
Ethyl Benzene
Concen: 0.076 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 91 Resp: 4937

Ion	Ratio	Lower	Upper
91	100		
106	28.4	23.8	35.6



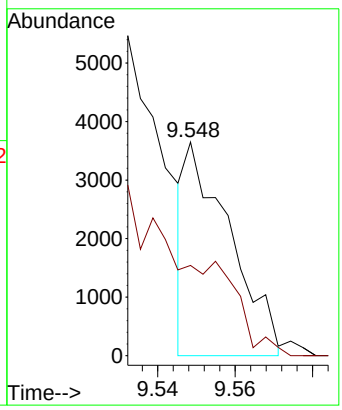


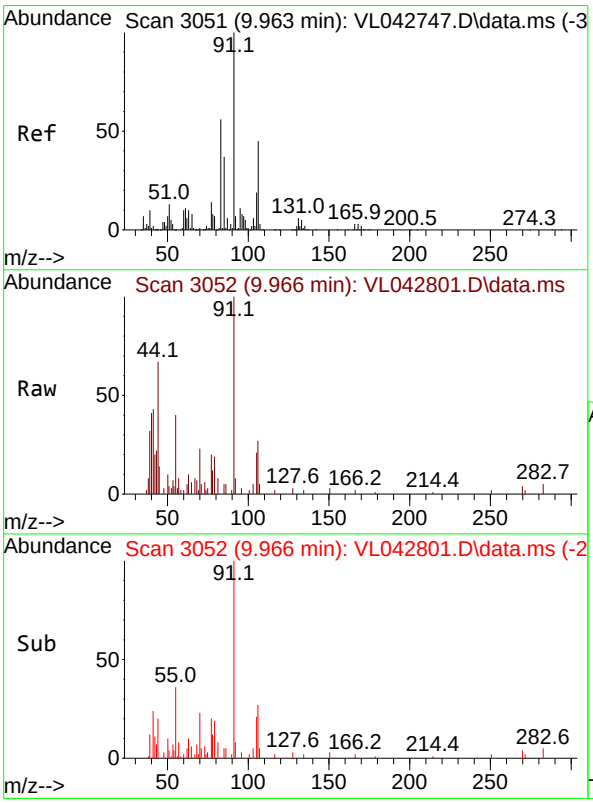
#59
m/p-Xylene
Concen: 0.056 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 91 Resp: 2921

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

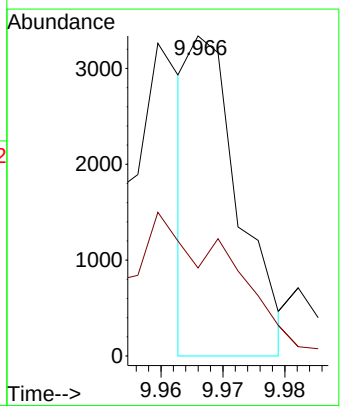


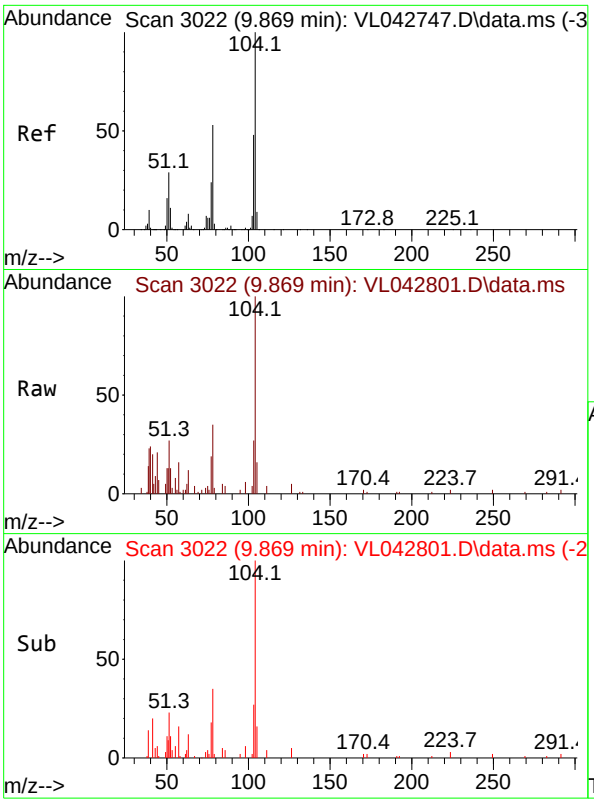


#60
o-Xylene
Concen: 0.035 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 91 Resp: 1849

Ion	Ratio	Lower	Upper
91	100		
106	0.0	22.0	66.0#



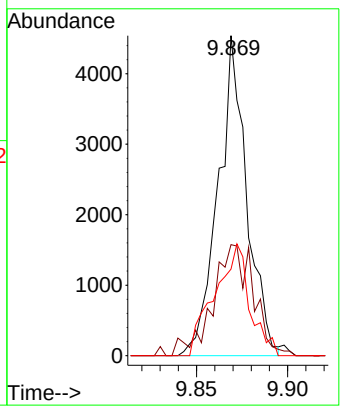


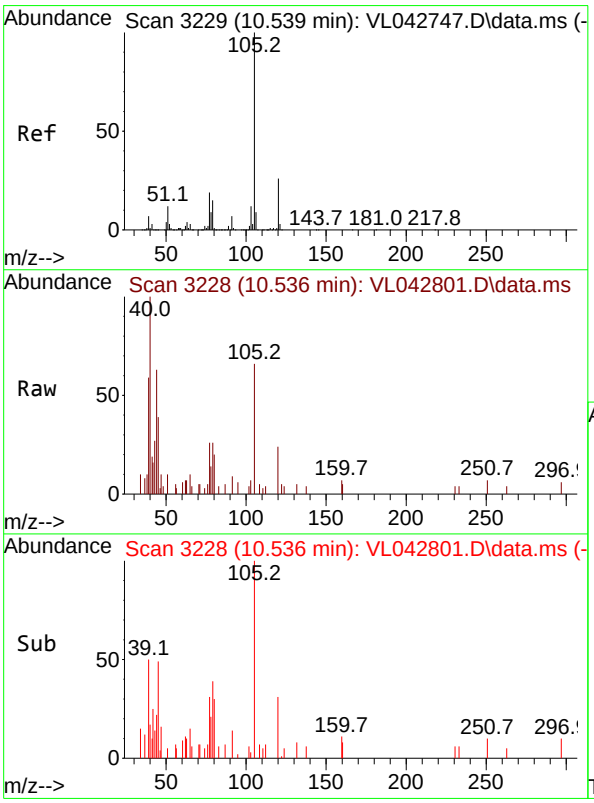
#61
Styrene
Concen: 0.226 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion:104 Resp: 4962

Ion	Ratio	Lower	Upper
104	100		
78	49.7	41.5	62.3
103	42.8	37.5	56.3

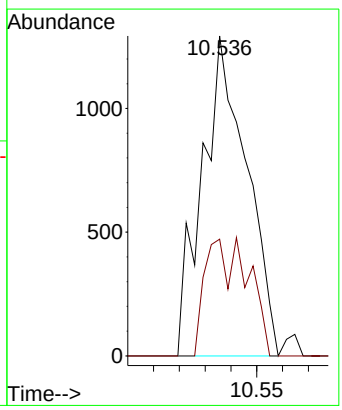


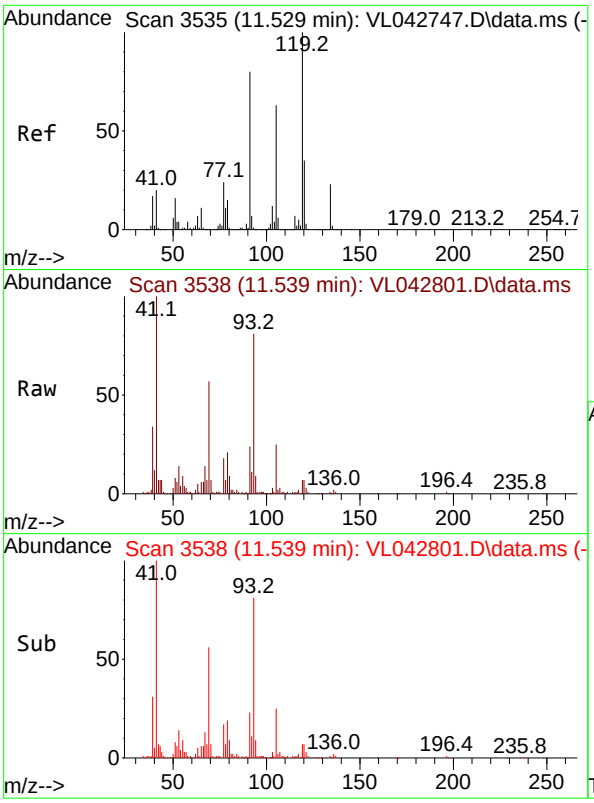


#62
Isopropylbenzene
Concen: 0.020 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:105 Resp: 1553

Ion	Ratio	Lower	Upper
105	100		
120	35.4	20.5	30.7#



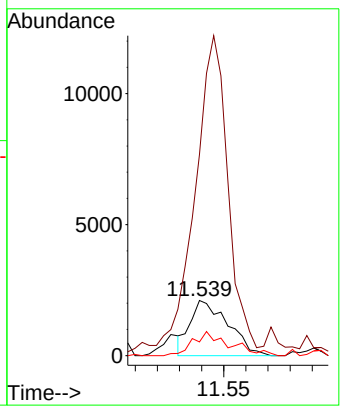


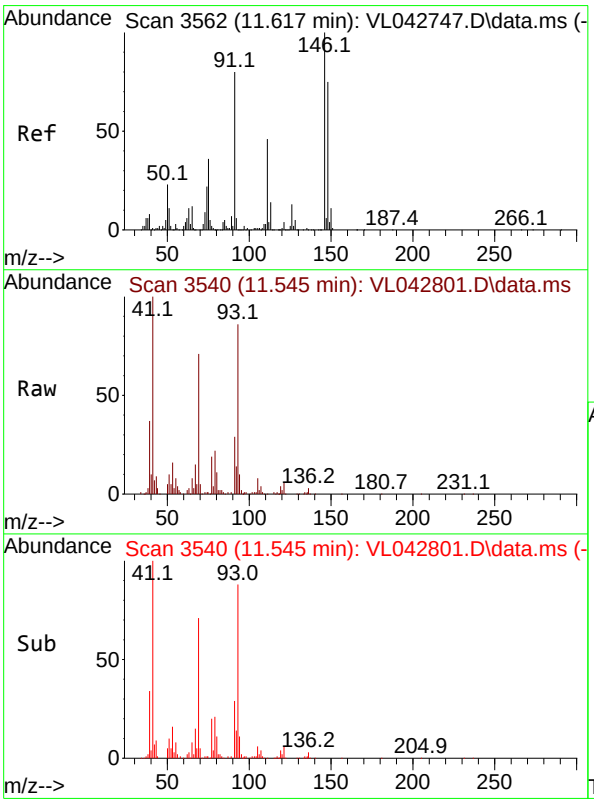
#65
tert-Butylbenzene
Concen: 0.037 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion:119 Resp: 2516

Ion	Ratio	Lower	Upper
119	100		
91	525.2	64.0	96.0#
134	42.1	17.3	25.9#

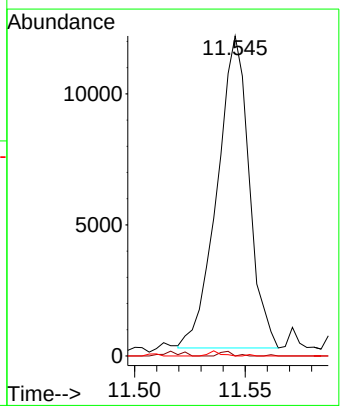


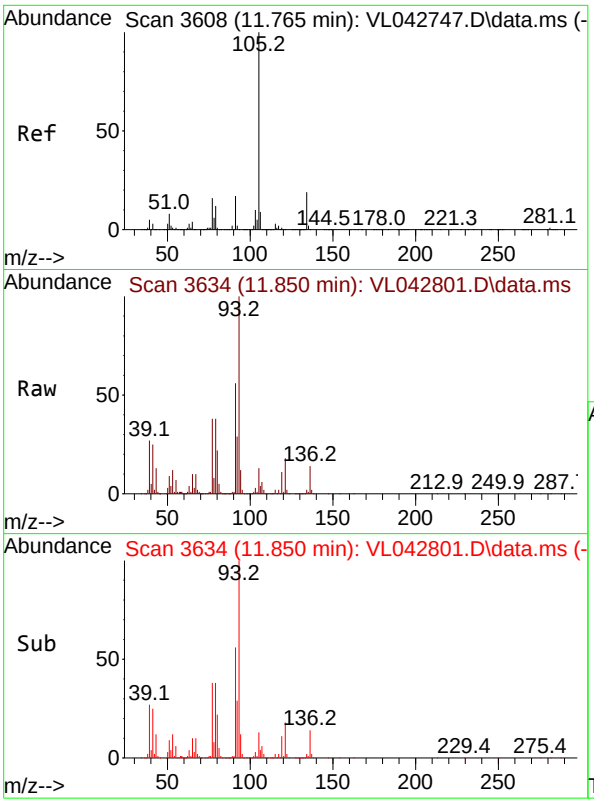


#66
Benzyl Chloride
Concen: 2.136 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.071 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 91 Resp: 11984

Ion	Ratio	Lower	Upper
91	100		
126	0.8	14.4	21.6#
128	0.9	5.2	7.8#



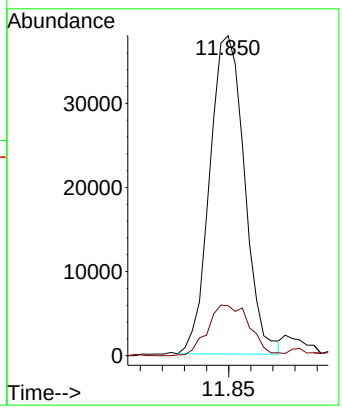


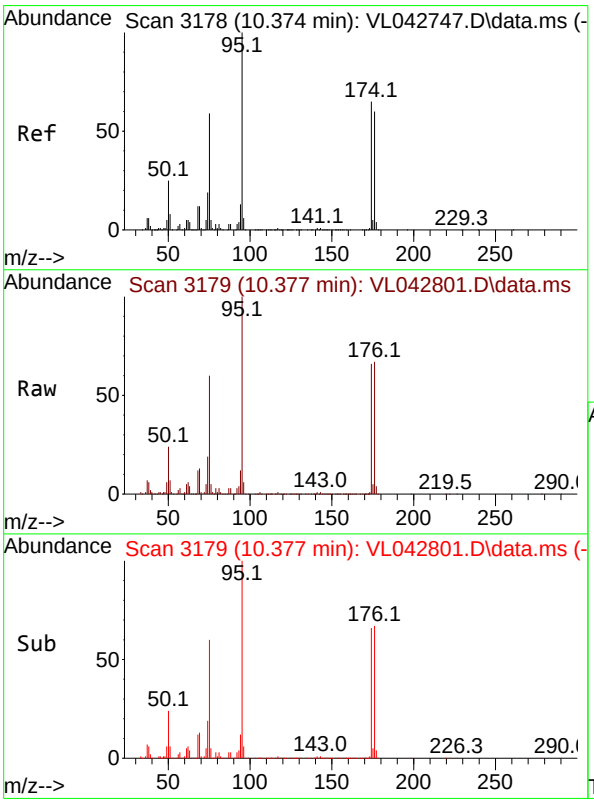
#67
sec-Butylbenzene
Concen: 0.426 ppbv
RT: 11.850 min Scan# 3
Delta R.T. 0.084 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion:105 Resp: 41419

Ion	Ratio	Lower	Upper
105	100		
134	20.8	15.5	23.3

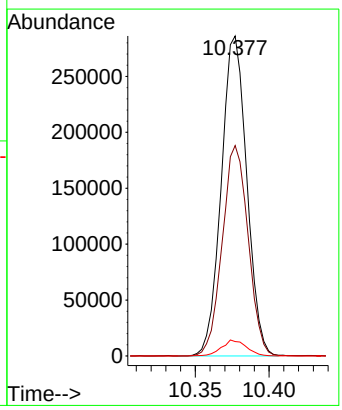


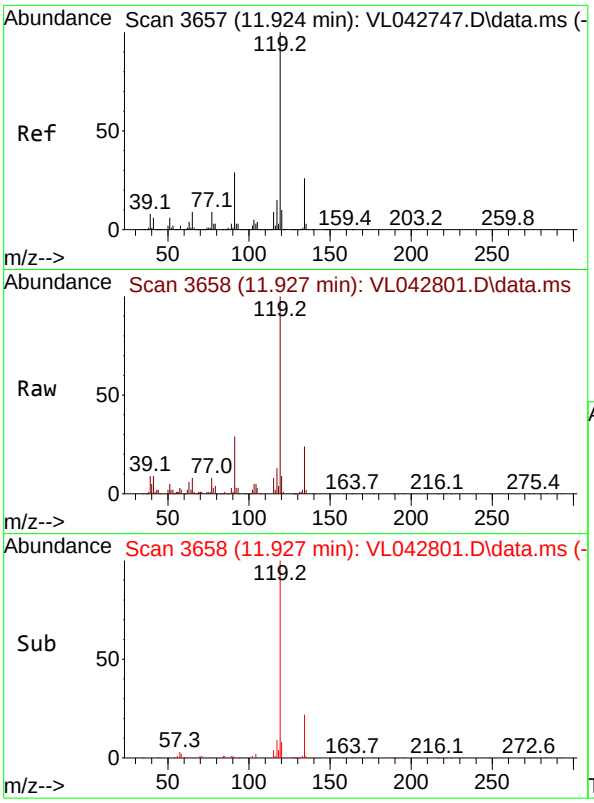


#68
1-Bromo-4-Fluorobenzene
Concen: 10.515 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 95 Resp: 344382

Ion	Ratio	Lower	Upper
95	100		
174	66.7	53.8	80.6
175	4.9	4.0	6.0



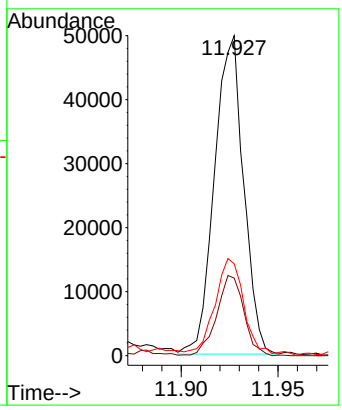


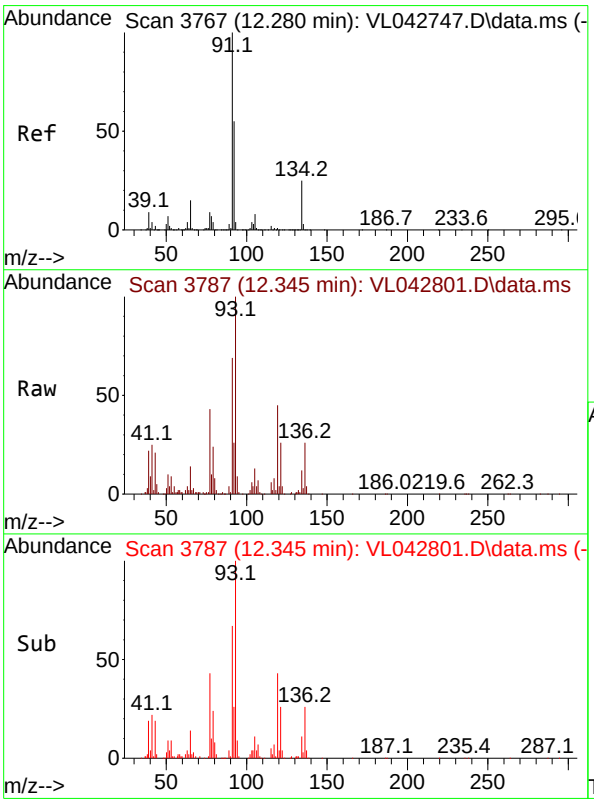
#69
p-Isopropyltoluene
Concen: 0.656 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion:119 Resp: 52018

Ion	Ratio	Lower	Upper
119	100		
134	23.4	20.6	31.0
91	33.4	23.2	34.8

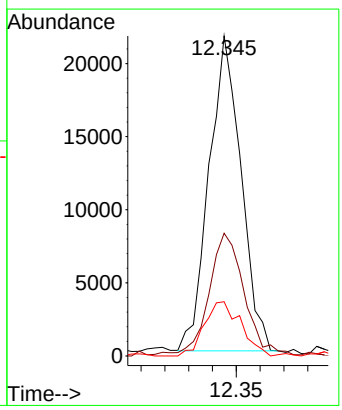


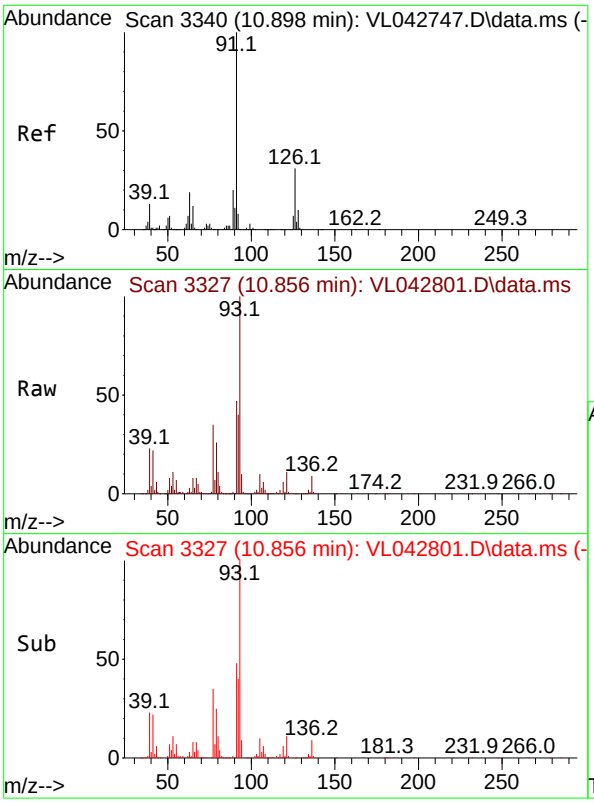


#70
n-Butylbenzene
Concen: 0.263 ppbv
RT: 12.345 min Scan# 3787
Delta R.T. 0.065 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 91 Resp: 20159

Ion	Ratio	Lower	Upper
91	100		
92	44.4	43.4	65.2
134	19.9	19.6	29.4



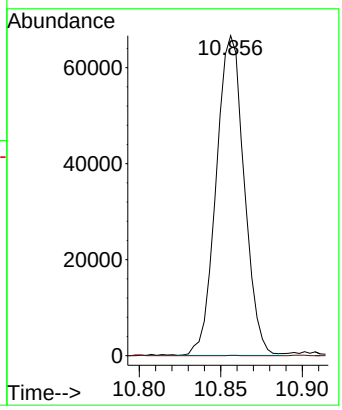


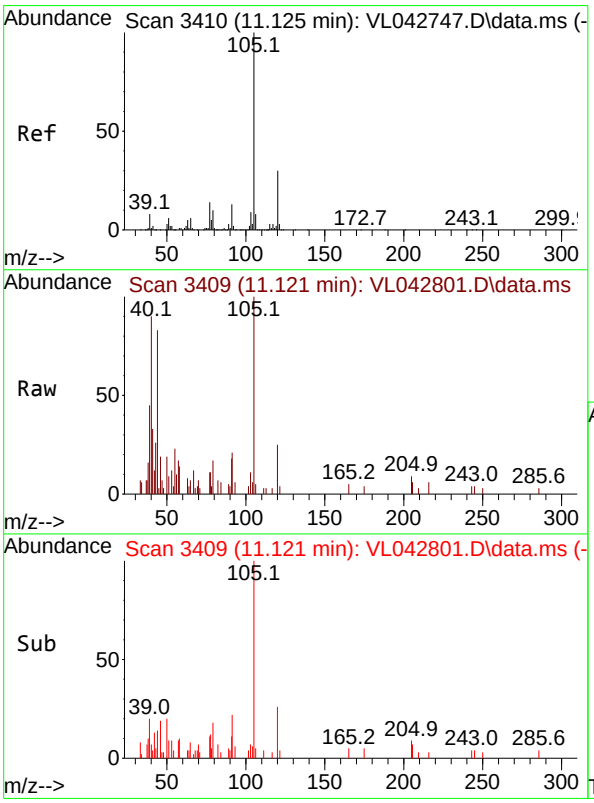
#71
2-Chlorotoluene
Concen: 1.346 ppbv
RT: 10.856 min Scan# 3
Delta R.T. -0.042 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion: 91 Resp: 79400

Ion	Ratio	Lower	Upper
91	100		
126	0.1	12.0	48.2#

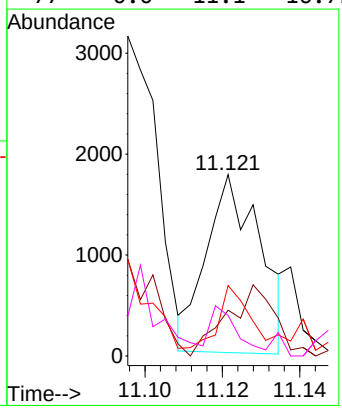


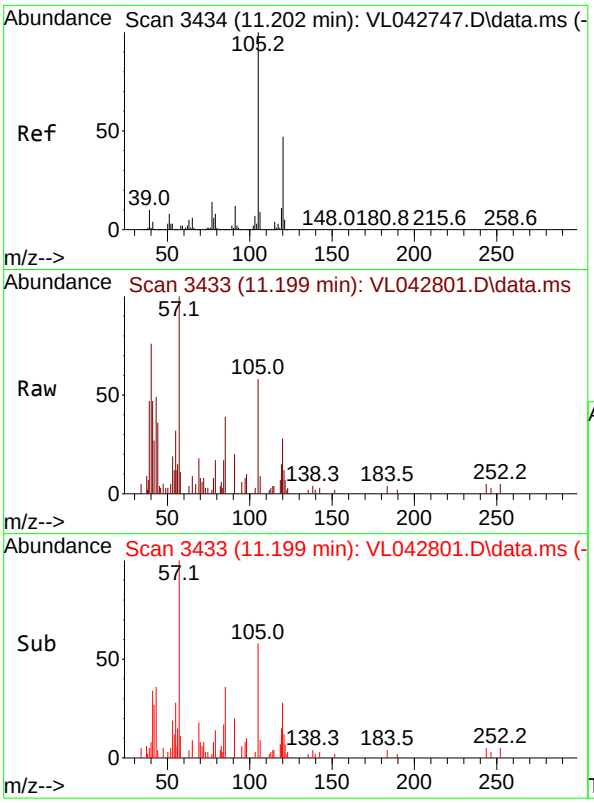


#72
4-Ethyltoluene
Concen: 0.027 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:105 Resp: 1700

Ion	Ratio	Lower	Upper
105	100		
120	35.9	24.4	36.6
91	0.0	10.6	15.8#
77	0.0	11.1	16.7#



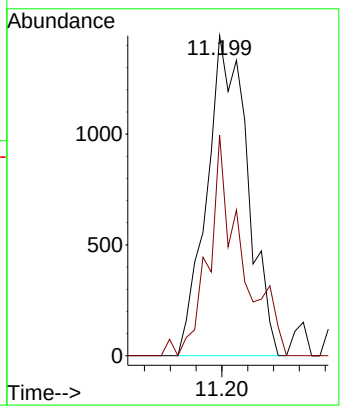


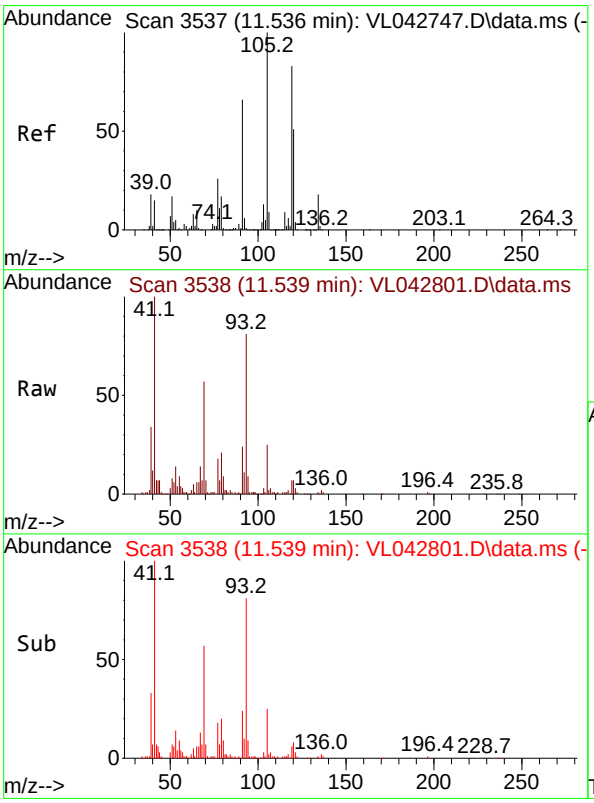
#73
1,3,5-Trimethylbenzene
Concen: 0.031 ppbv
RT: 11.199 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion:105 Resp: 1578

Ion	Ratio	Lower	Upper
105	100		
120	69.0	37.8	56.8#

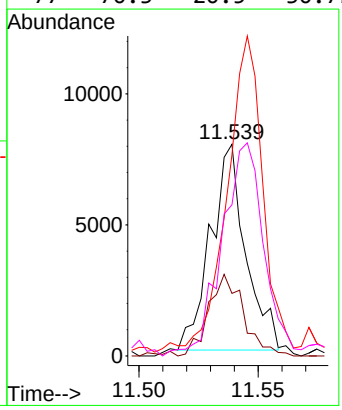


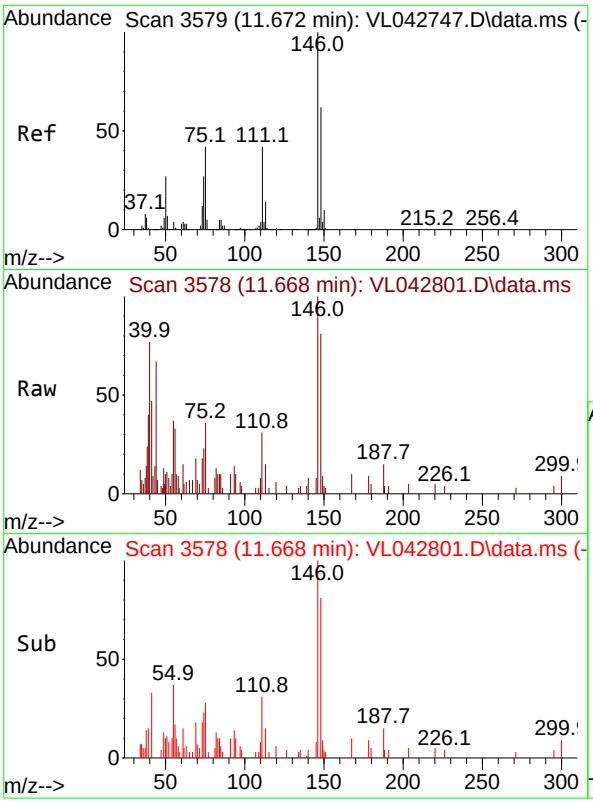


#74
1,2,4-Trimethylbenzene
Concen: 0.143 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:105 Resp: 8019

Ion	Ratio	Lower	Upper
105	100		
120	30.4	40.8	61.2#
91	92.8	53.0	79.4#
77	70.3	20.5	30.7#



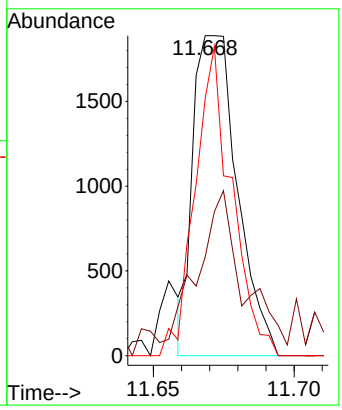


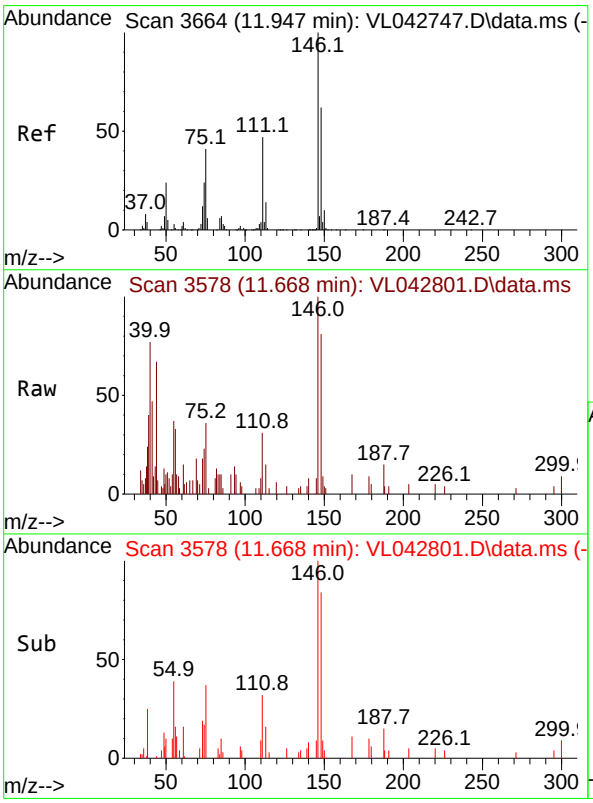
#76
1,4-Dichlorobenzene
Concen: 0.054 ppbv
RT: 11.668 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion:146 Resp: 2073

Ion	Ratio	Lower	Upper
146	100		
111	67.9	21.4	64.2#
148	79.7	32.1	96.3

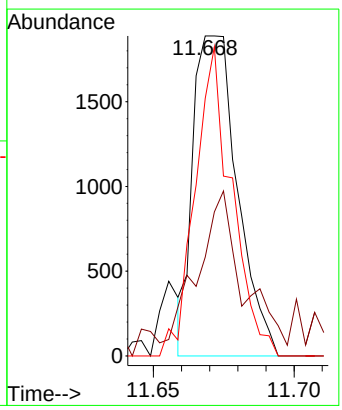


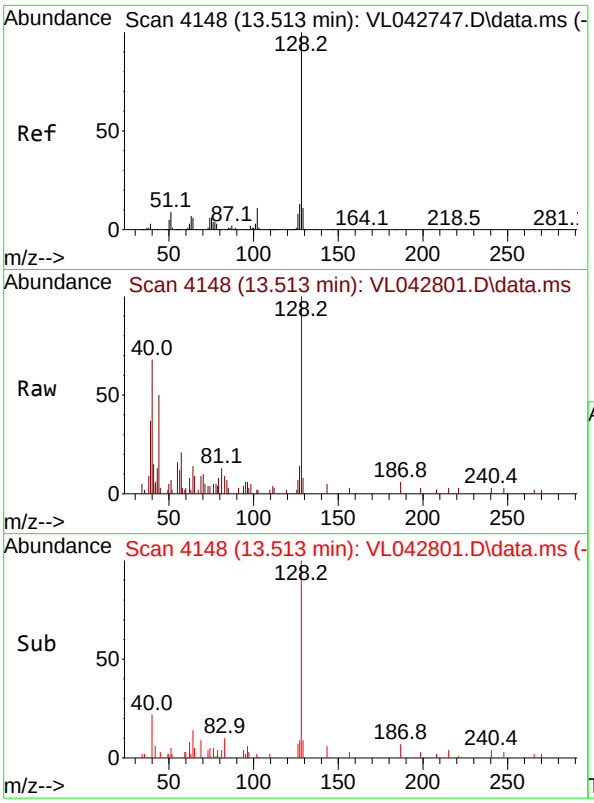


#77
1,2-Dichlorobenzene
Concen: 0.054 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.278 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:146 Resp: 2073

Ion	Ratio	Lower	Upper
146	100		
111	67.9	23.7	71.1
148	79.7	32.6	97.7



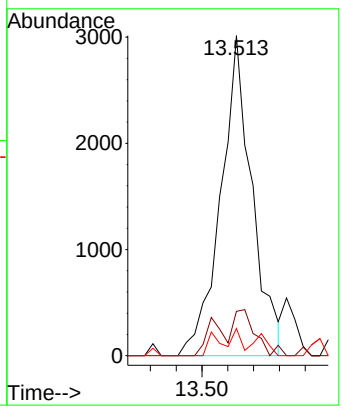


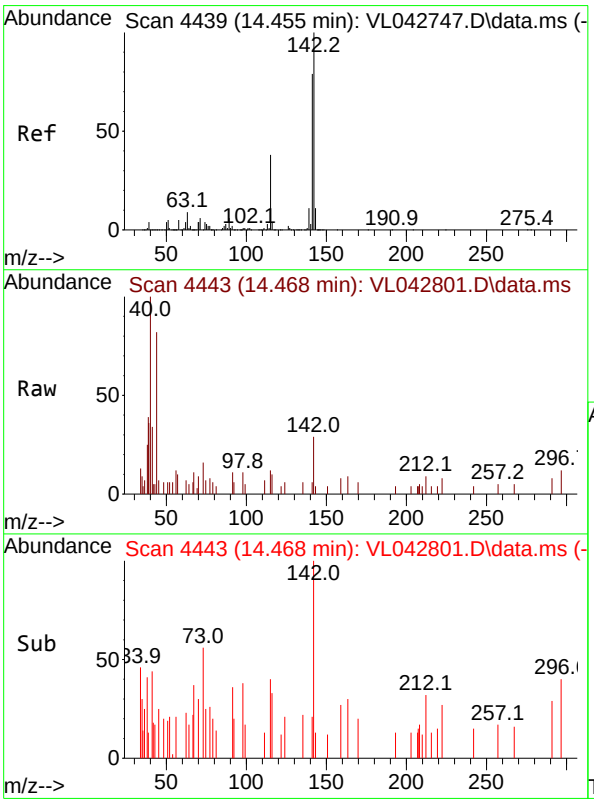
#79
Naphthalene
Concen: 0.475 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion:128 Resp: 2540

Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.5	15.7
129	8.5	8.6	13.0#

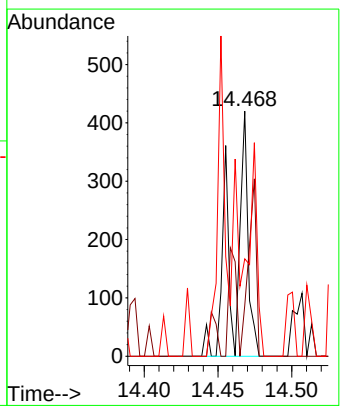


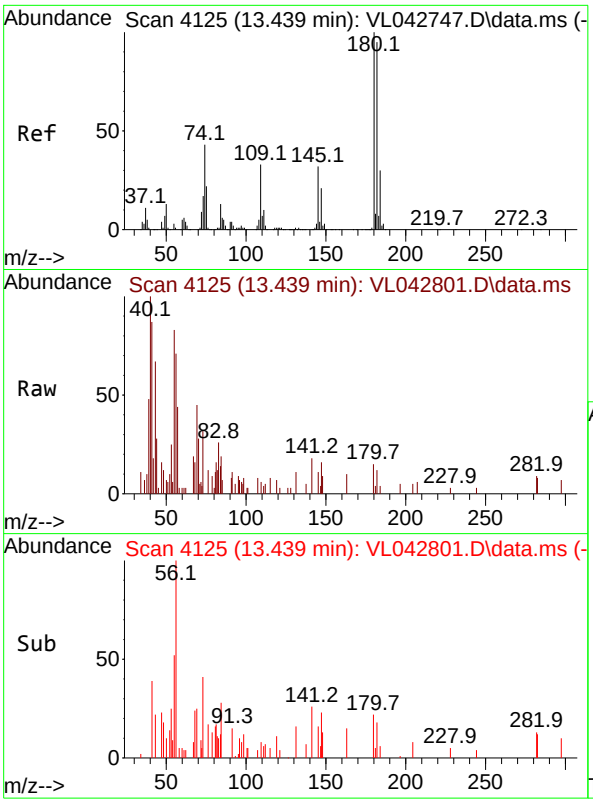


#80
Naphthalene,2-methyl-
Concen: 1.136 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.013 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:142 Resp: 271

Ion	Ratio	Lower	Upper
142	100		
141	76.0	65.8	98.8
115	160.1	31.2	46.8#



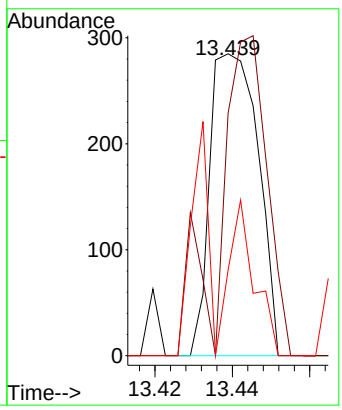


#81
1,2,4-Trichlorobenzene
Concen: 0.442 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

Tgt Ion:180 Resp: 247

Ion	Ratio	Lower	Upper
180	100		
182	102.4	76.2	114.2
184	54.3	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042802.D
Acq On : 04 Aug 2025 13:30
Operator : SY/MD
Sample : Q2750-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Quant Time: Aug 05 01:04:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	166020	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	471810	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	410967	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	345607	10.619	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 106.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	11798	0.537	ppbv		92
3) Chlorodifluoromethane	1.473	51	1595678	55.804	ppbv	#	83
4) Chloromethane	1.531	50	6035	0.680	ppbv	#	86
5) Vinyl Chloride	1.483	62	925	0.105	ppbv	#	44
6) Bromomethane	1.667	94	109	0.032	ppbv	#	29
7) Chloroethane	1.706	64	266	0.078	ppbv	#	64
8) Dichlorotetrafluoroethane	1.496	85	11798	0.654	ppbv	#	22
9) Propene	1.557	41	677955	65.236	ppbv		97
10) Heptane	4.978	43	1547	0.055	ppbv	#	27
11) Trichlorofluoromethane	1.874	101	4420	0.195	ppbv		84
12) 1,1,2-Trichlorotrifluo...	2.140	101	1639	0.095	ppbv		84
13) Ethanol	1.725	45	4798288	6339.911	ppbv		94
15) Acetone	1.832	43	2203330	96.111	ppbv	#	80
16) 1,3-Butadiene	1.557	39	328288	33.573	ppbv	#	16
17) tert-Butyl alcohol	1.984	59	8262366	399.616	ppbv		97
19) Isopropyl Alcohol	1.981	45	5244330	430.481	ppbv	#	39
20) Methylene Chloride	2.062	84	13447	1.861	ppbv		93
21) Allyl Chloride	1.988	41	13037433	922.751	ppbv	#	78
23) Vinyl Acetate	2.460	43	46259	1.664	ppbv	#	89
24) 1,1-Dichloroethane	2.787	63	939	0.055	ppbv	#	87
25) Ethyl Acetate	2.842	43	247439	4.876	ppbv	#	74
26) Hexane	2.823	57	42838	1.924	ppbv	#	1
27) Carbon Disulfide	2.146	76	62067	3.257	ppbv	#	65
28) Methyl tert-Butyl Ether	2.444	73	215	0.020	ppbv	#	50
29) Chloroform	2.852	83	20293	0.590	ppbv		100
30) Cyclohexane	3.855	84	1722	0.091	ppbv	#	38
31) cis-1,2-Dichloroethene	2.842	61	24989	1.092	ppbv	#	23
34) 2-Butanone	2.564	43	31346	0.938	ppbv		96
35) Carbon Tetrachloride	3.761	117	1718	0.049	ppbv	#	85
36) Benzene	3.651	78	11411	0.255	ppbv	#	90
39) 1,2-Dichloropropane	3.959	63	119868	7.262	ppbv	#	22
42) Bromodichloromethane	4.489	83	2796	0.080	ppbv	#	86
43) Methyl Methacrylate	4.878	69	633	0.040	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.638	57	3961	0.054	ppbv	#	1
53) Toluene	6.936	91	36533	0.761	ppbv		98
58) Ethyl Benzene	9.526	91	8865	0.137	ppbv		92
59) m/p-Xylene	9.555	91	2465	0.048	ppbv	#	30
60) o-Xylene	9.526	91	8865	0.171	ppbv		85
61) Styrene	9.869	104	2231	0.102	ppbv	#	13
64) n-propylbenzene	10.989	120	582	0.029	ppbv		89
66) Benzyl Chloride	11.545	91	11074	1.986	ppbv	#	66
67) sec-Butylbenzene	11.850	105	38757	0.401	ppbv		97
69) p-Isopropyltoluene	11.924	119	47903	0.608	ppbv		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042802.D
Acq On : 04 Aug 2025 13:30
Operator : SY/MD
Sample : Q2750-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Quant Time: Aug 05 01:04:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) n-Butylbenzene	12.345	91	17047	0.224	ppbv	#	87
71) 2-Chlorotoluene	10.856	91	73906	1.261	ppbv	#	45
73) 1,3,5-Trimethylbenzene	11.199	105	1161	0.023	ppbv	#	80
74) 1,2,4-Trimethylbenzene	11.536	105	7196	0.129	ppbv	#	82
76) 1,4-Dichlorobenzene	11.672	146	2545	0.067	ppbv		91
77) 1,2-Dichlorobenzene	11.672	146	2545	0.066	ppbv		93
79) Naphthalene	13.513	128	1603	0.461	ppbv	#	80
80) Naphthalene,2-methyl-	14.465	142	404	1.140	ppbv	#	62
81) 1,2,4-Trichlorobenzene	13.439	180	115	0.438	ppbv	#	28

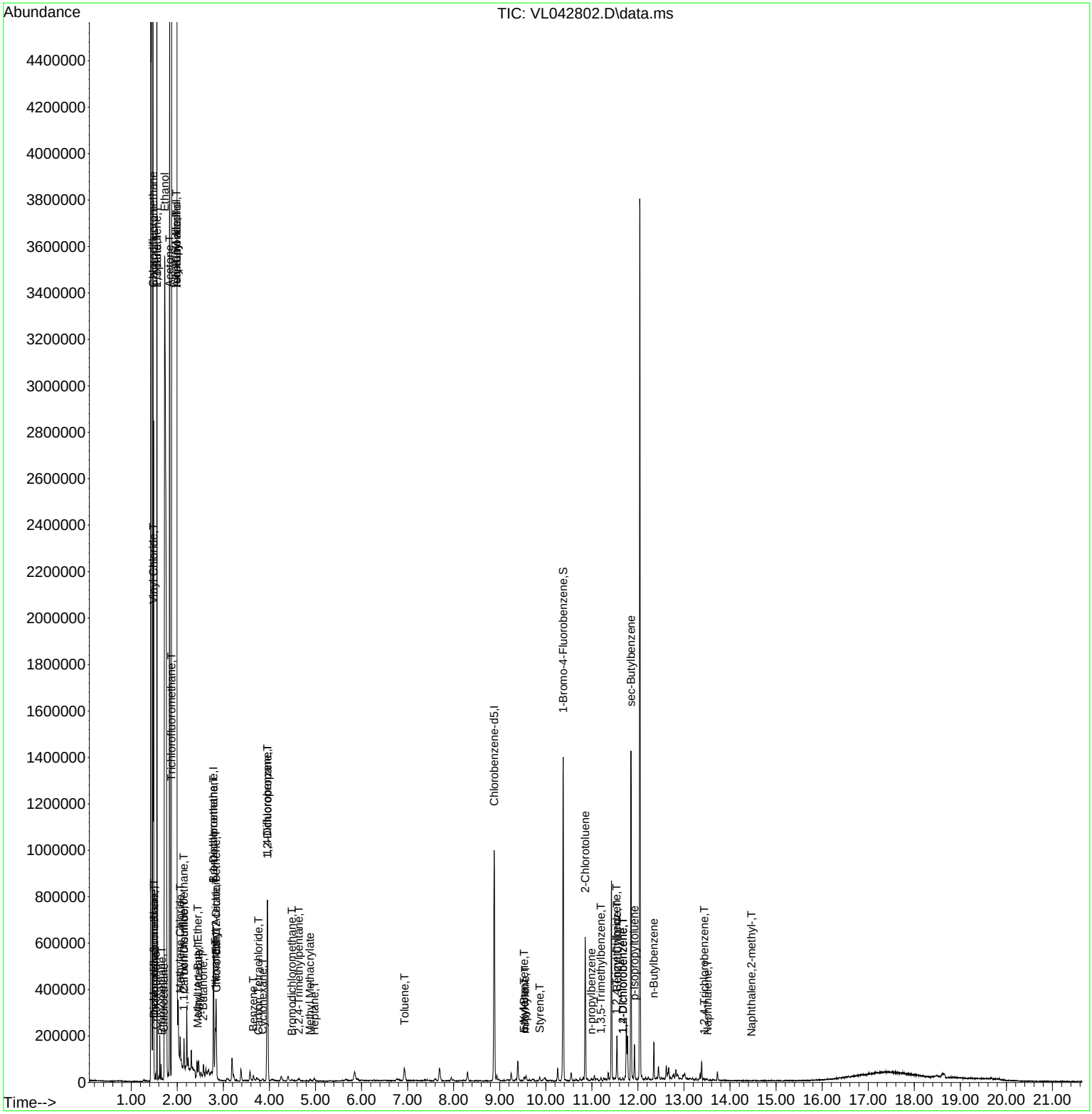
(#) = qualifier out of range (m) = manual integration (+) = signals summed

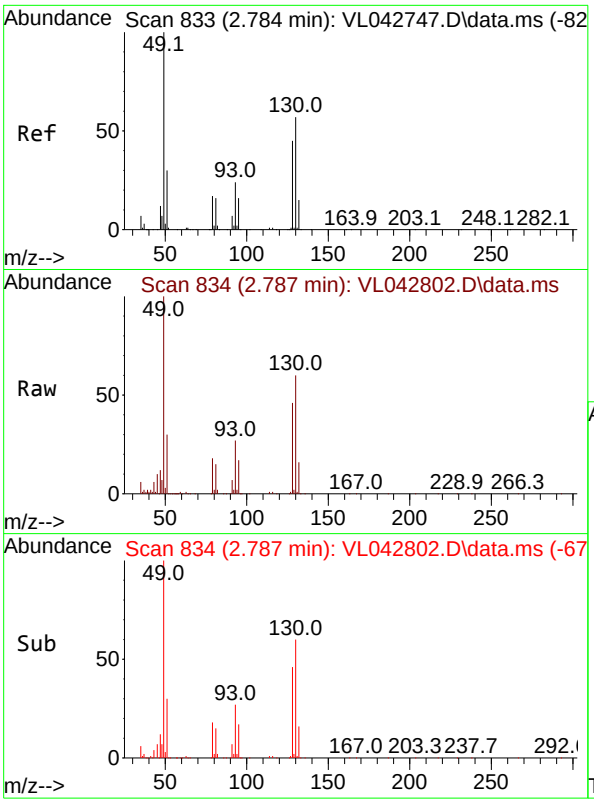
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042802.D
Acq On : 04 Aug 2025 13:30
Operator : SY/MD
Sample : Q2750-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Quant Time: Aug 05 01:04:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



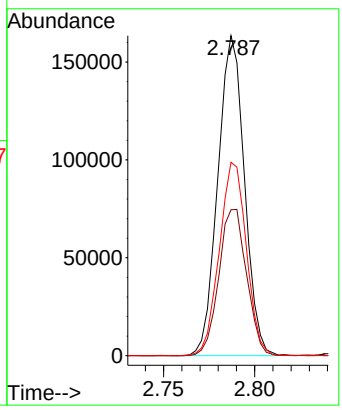


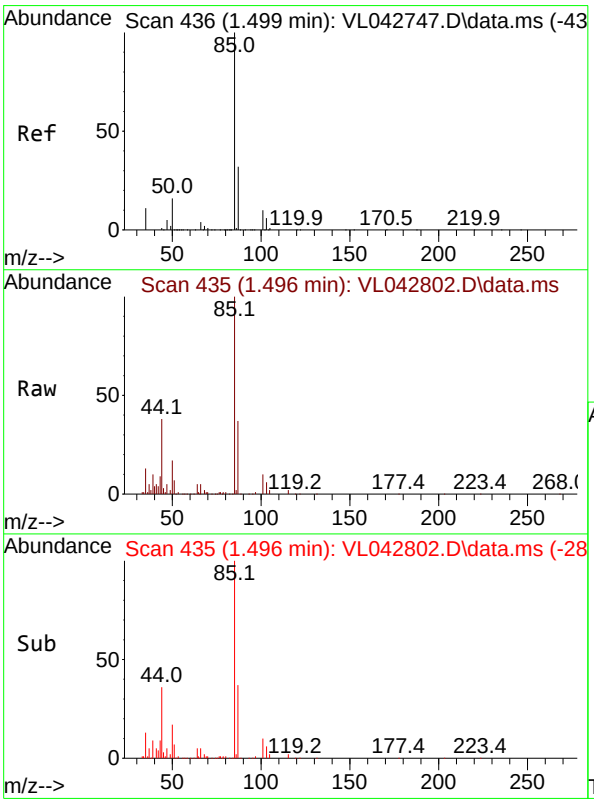
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 49 Resp: 166020

Ion	Ratio	Lower	Upper
49	100		
128	47.8	23.6	71.0
130	61.6	30.3	90.8

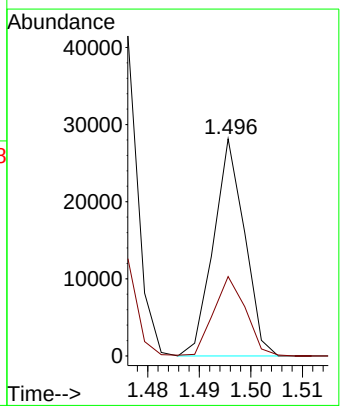


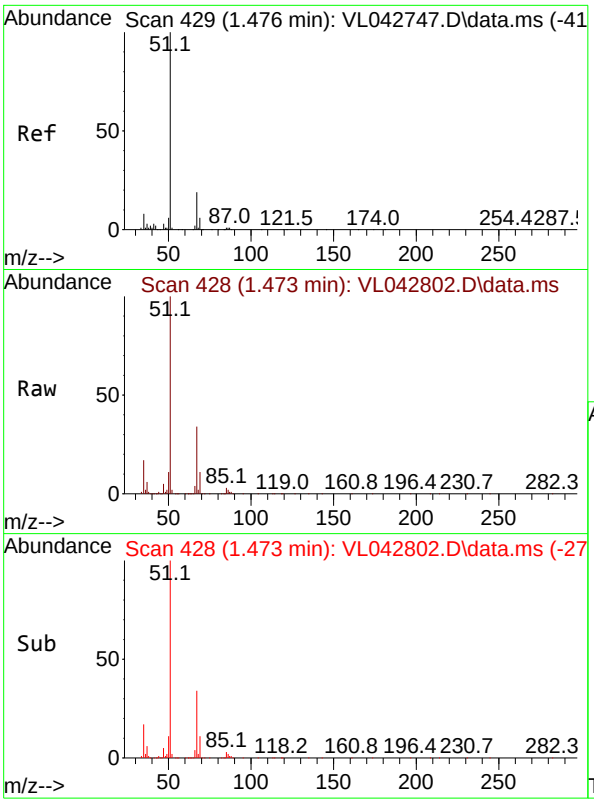


#2
Dichlorodifluoromethane
Concen: 0.537 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 85 Resp: 11798

Ion	Ratio	Lower	Upper
85	100		
87	36.2	25.4	38.2



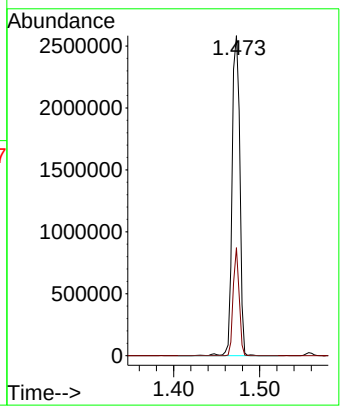


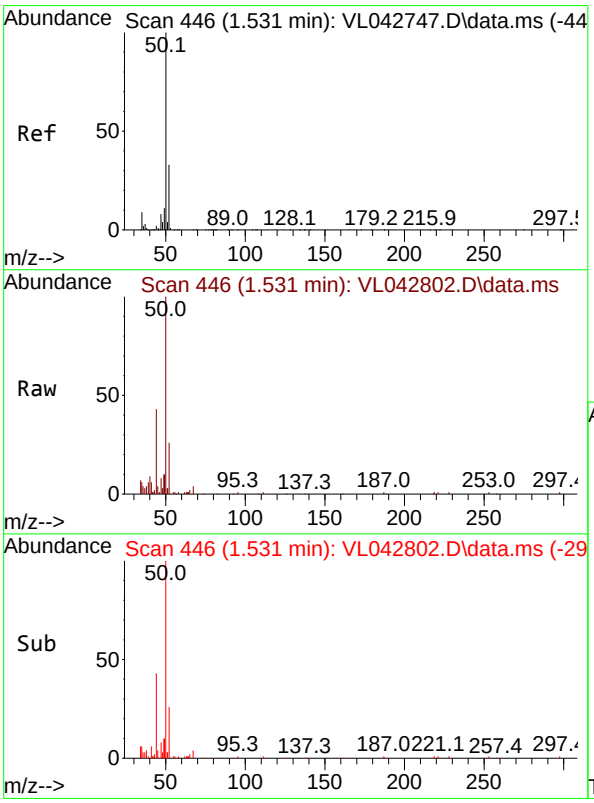
#3
Chlorodifluoromethane
Concen: 55.804 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 51 Resp: 1595678

Ion	Ratio	Lower	Upper
51	100		
67	26.3	15.0	22.6#

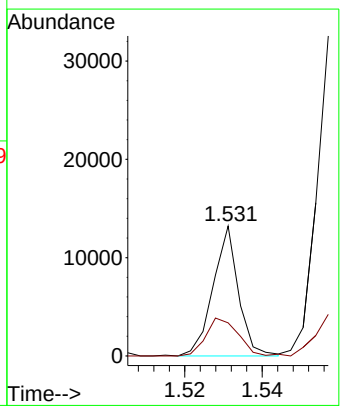


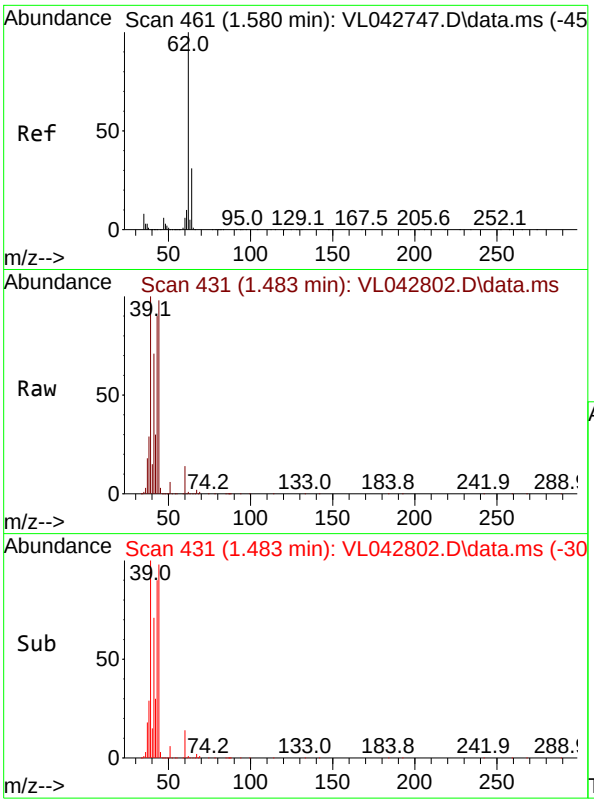


#4
Chloromethane
Concen: 0.680 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 50 Resp: 6035

Ion	Ratio	Lower	Upper
50	100		
52	25.5	26.6	40.0#



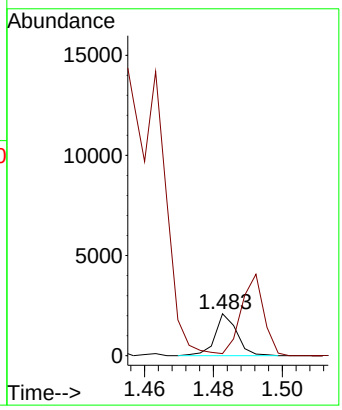


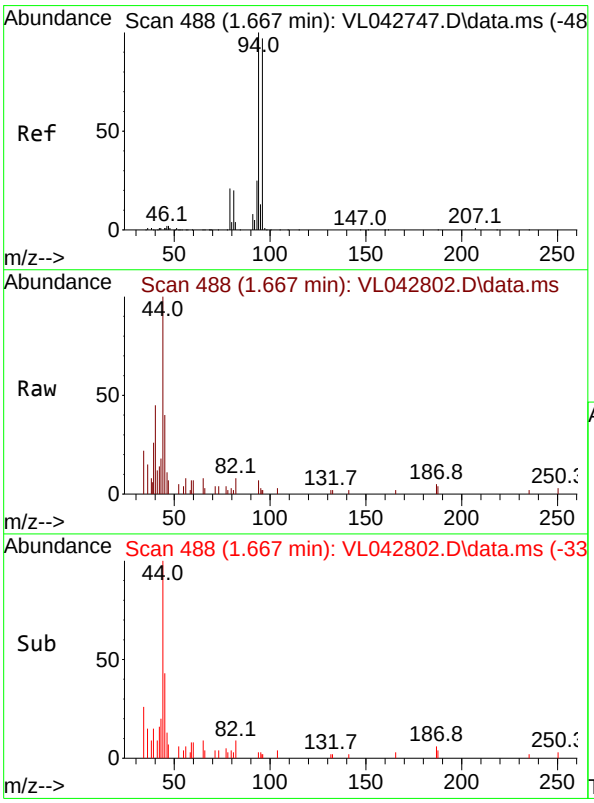
#5
Vinyl Chloride
Concen: 0.105 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.097 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 62 Resp: 925

Ion	Ratio	Lower	Upper
62	100		
64	0.0	24.5	36.7#

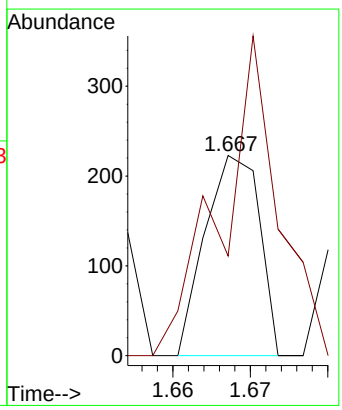


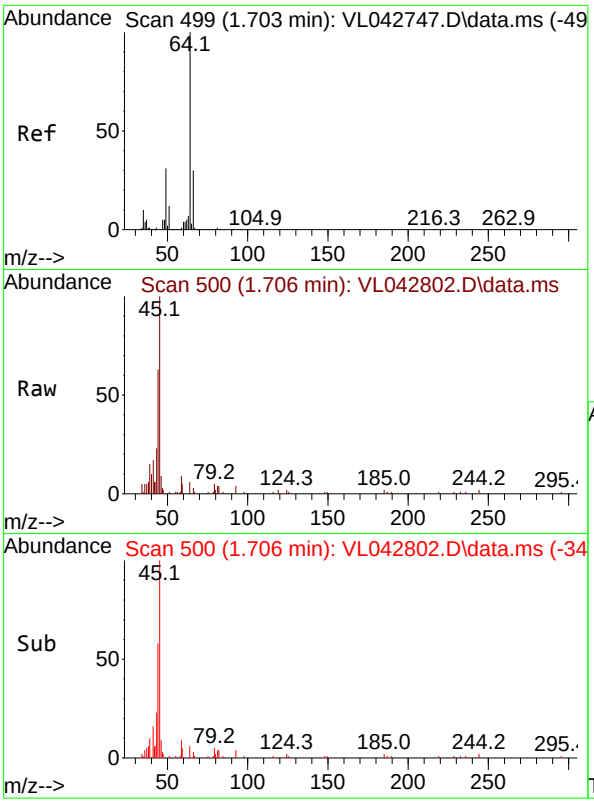


#6
Bromomethane
Concen: 0.032 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 94 Resp: 109

Ion	Ratio	Lower	Upper
94	100		
96	27.4	77.6	116.4#



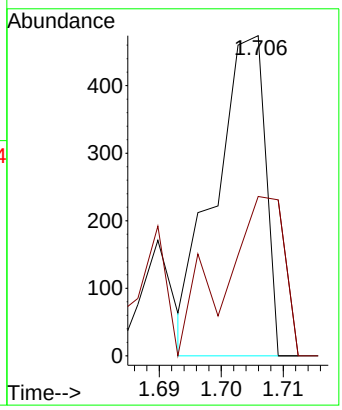


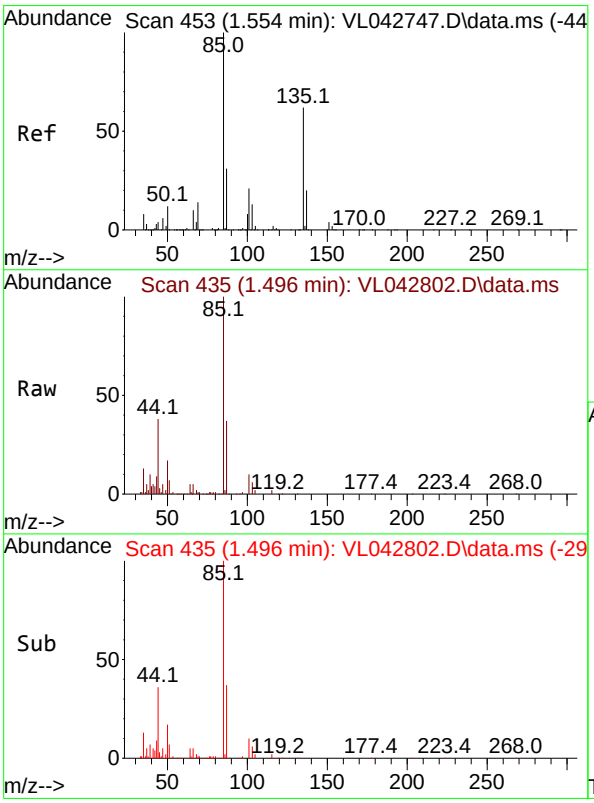
#7
Chloroethane
Concen: 0.078 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 64 Resp: 266

Ion	Ratio	Lower	Upper
64	100		
66	49.8	24.1	36.1#

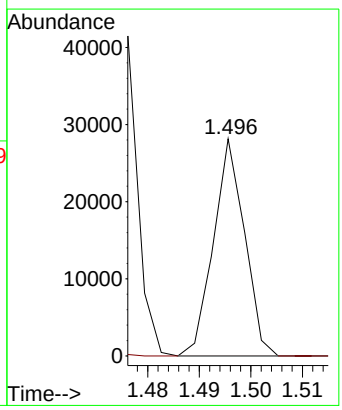


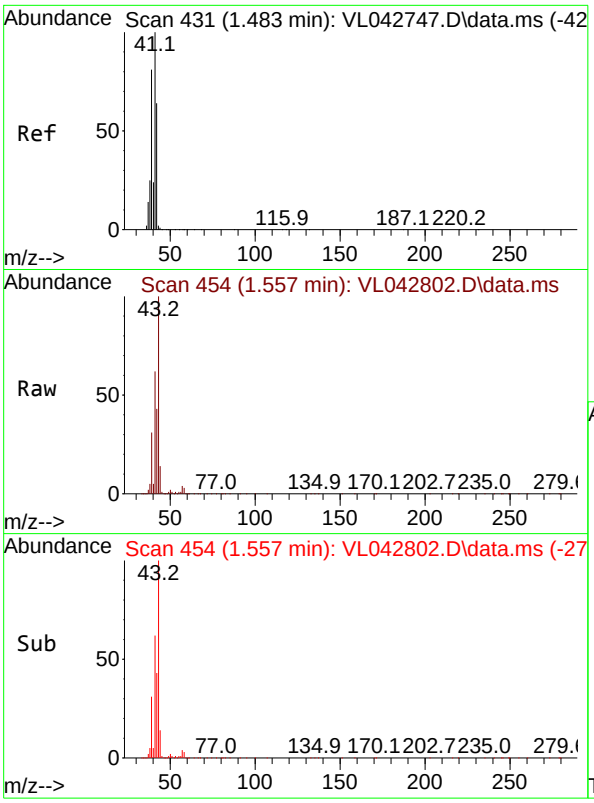


#8
Dichlorotetrafluoroethane
Concen: 0.654 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.058 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 85 Resp: 11798

Ion	Ratio	Lower	Upper
85	100		
135	2.3	50.6	76.0#



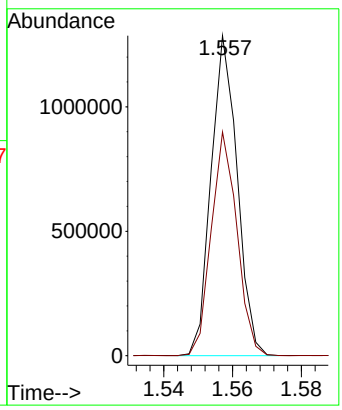


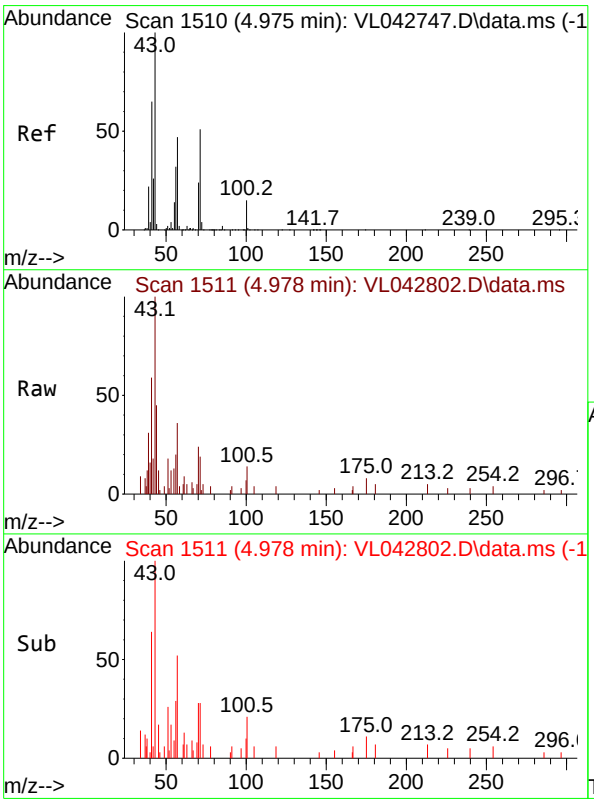
#9
Propene
Concen: 65.236 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.074 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 41 Resp: 677955

Ion	Ratio	Lower	Upper
41	100		
42	68.9	53.2	79.8

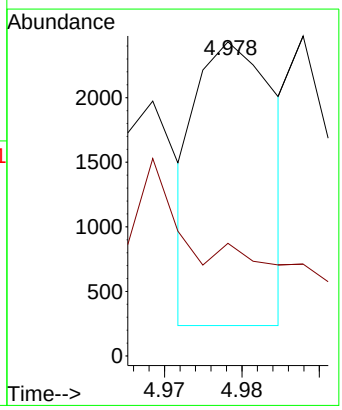


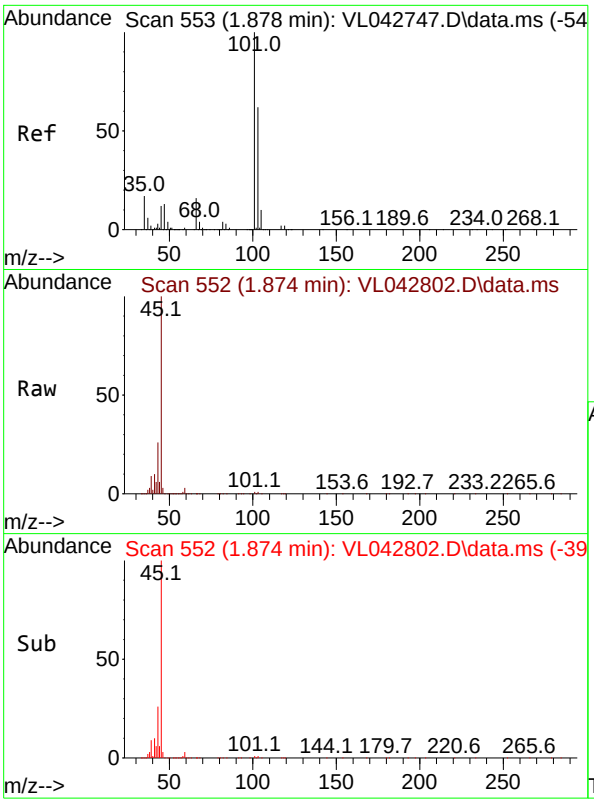


#10
Heptane
Concen: 0.055 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 43 Resp: 1547

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.9	59.9#



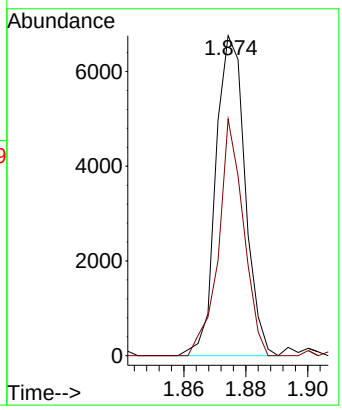


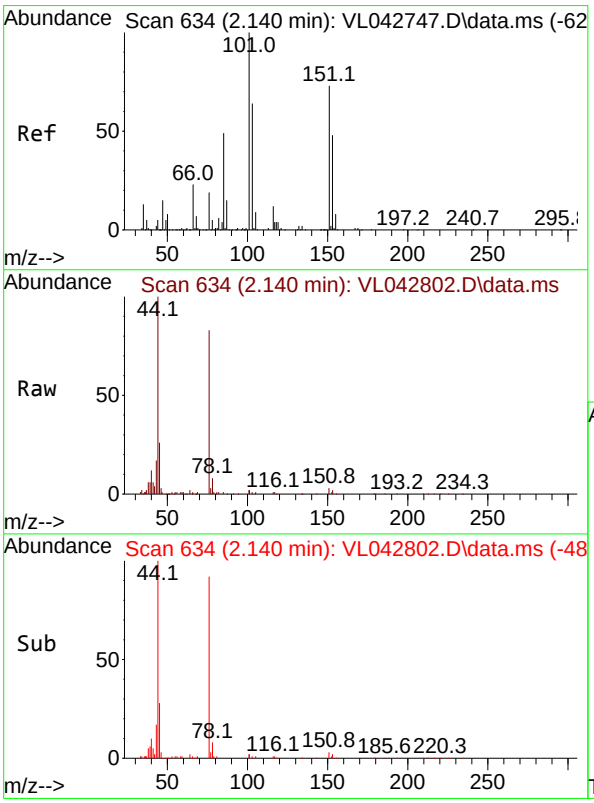
#11
Trichlorofluoromethane
Concen: 0.195 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion:101 Resp: 4420

Ion	Ratio	Lower	Upper
101	100		
103	73.9	49.6	74.4

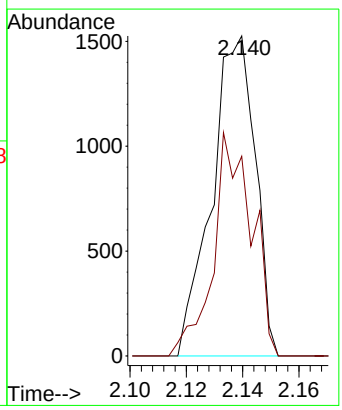


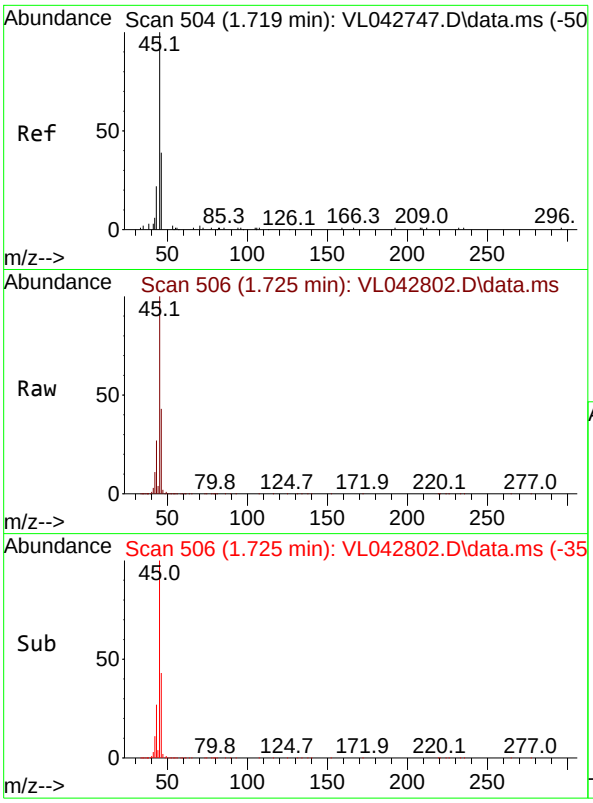


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.095 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion:101 Resp: 1639

Ion	Ratio	Lower	Upper
101	100		
151	61.6	60.5	90.7



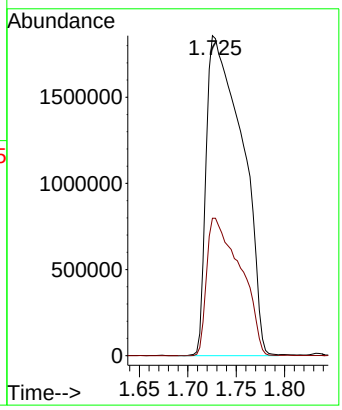


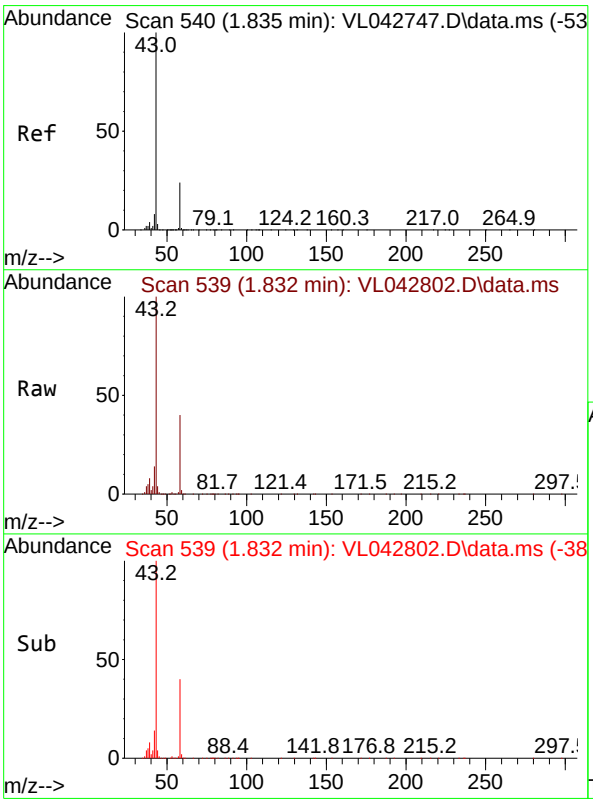
#13
Ethanol
Concen: 6339.911 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 45 Resp: 4798288

Ion	Ratio	Lower	Upper
45	100		
46	40.5	17.8	71.4

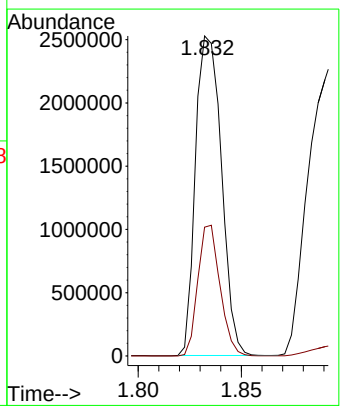


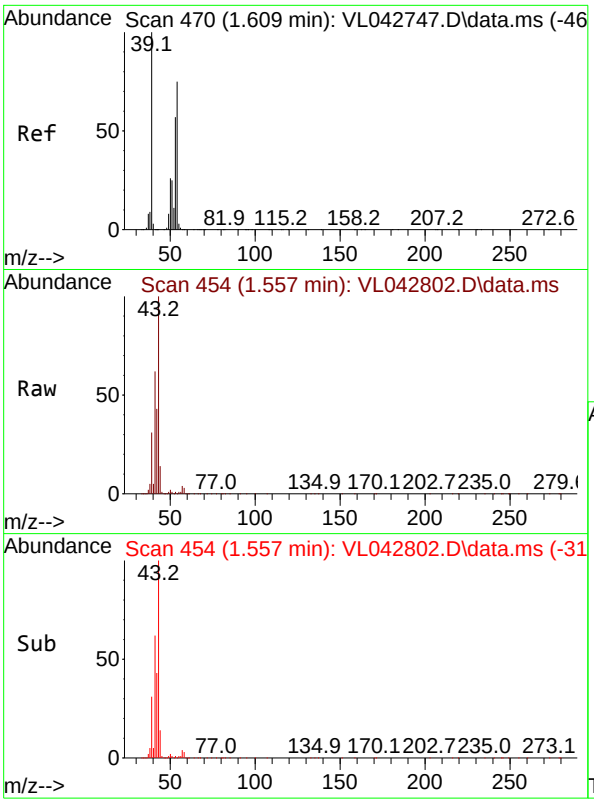


#15
Acetone
Concen: 96.111 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 43 Resp: 2203330

Ion	Ratio	Lower	Upper
43	100		
58	35.0	19.8	29.8#



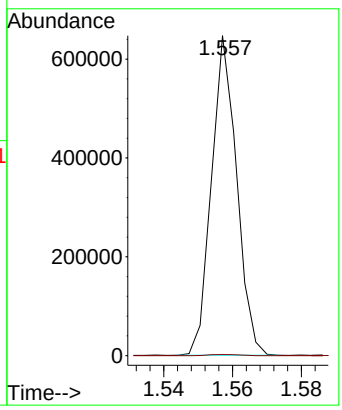


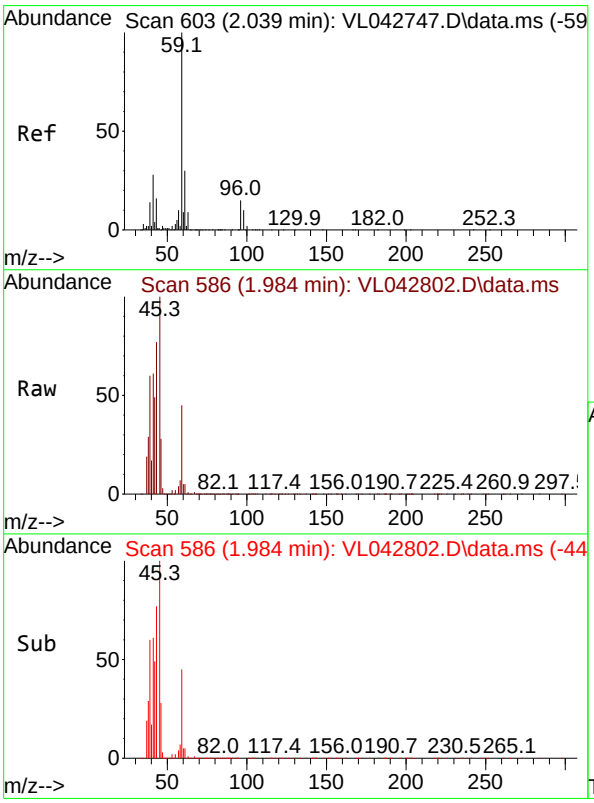
#16
1,3-Butadiene
Concen: 33.573 ppbv
RT: 1.557 min Scan# 4
Delta R.T. -0.052 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 39 Resp: 328288

Ion	Ratio	Lower	Upper
39	100		
54	0.5	54.5	81.7#

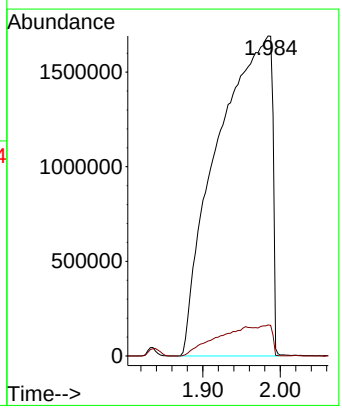


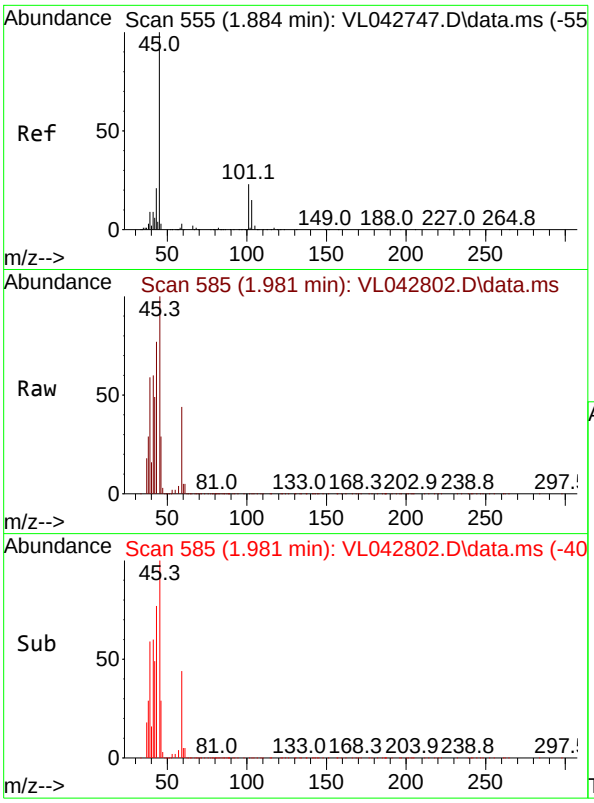


#17
tert-Butyl alcohol
Concen: 399.616 ppbv
RT: 1.984 min Scan# 586
Delta R.T. -0.055 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 59 Resp: 8262366

Ion	Ratio	Lower	Upper
59	100		
57	9.2	8.3	12.5



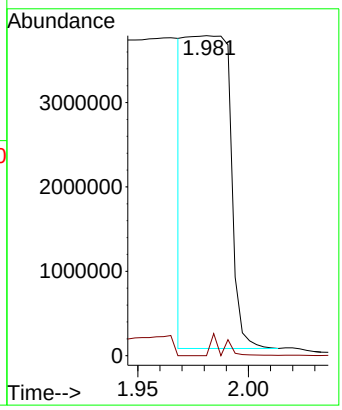


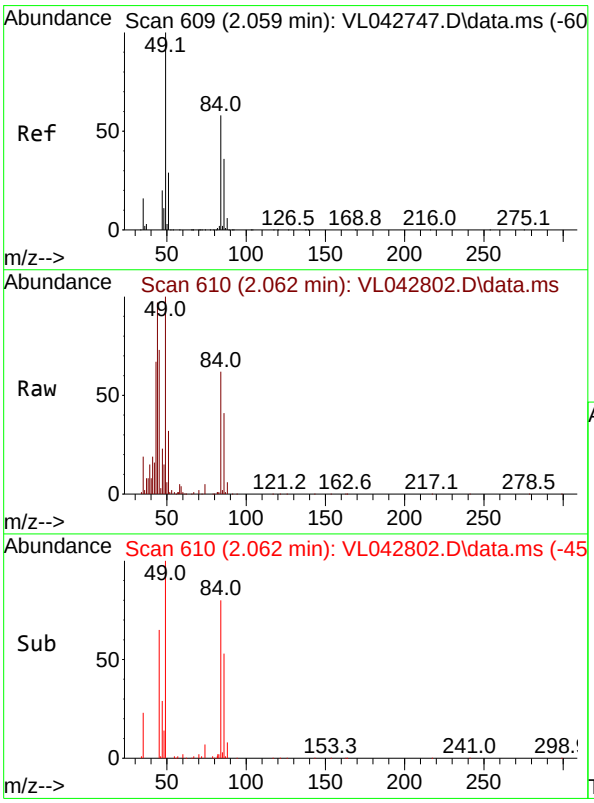
#19
Isopropyl Alcohol
Concen: 430.481 ppbv
RT: 1.981 min Scan# 5
Delta R.T. 0.097 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 45 Resp: 5244330

Ion	Ratio	Lower	Upper
45	100		
58	1.2	30.0	45.0#

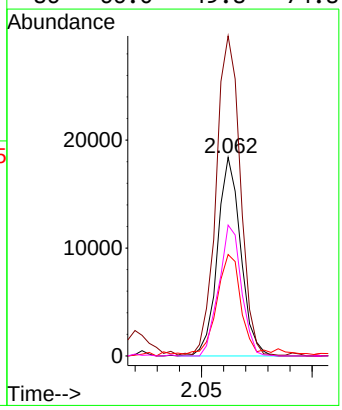


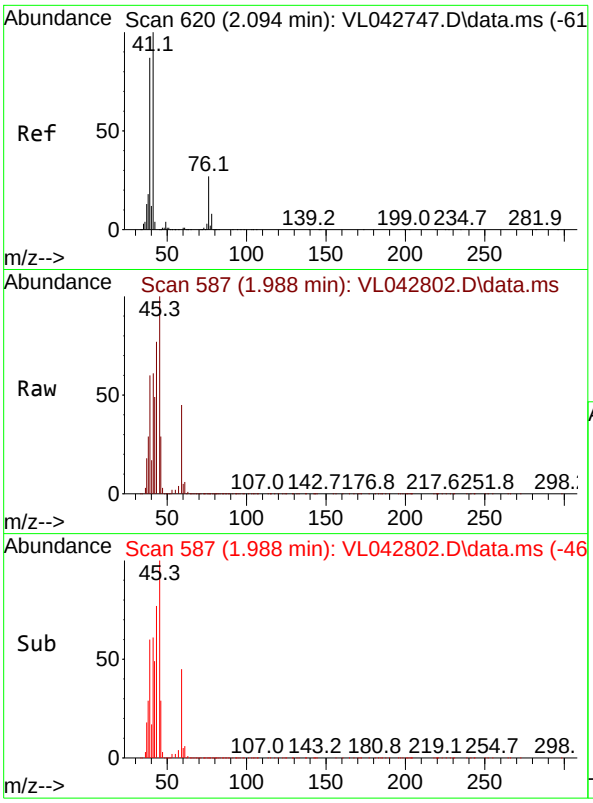


#20
Methylene Chloride
Concen: 1.861 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 84 Resp: 13447

Ion	Ratio	Lower	Upper
84	100		
49	160.8	138.6	208.0
51	51.7	40.6	61.0
86	66.0	49.8	74.8



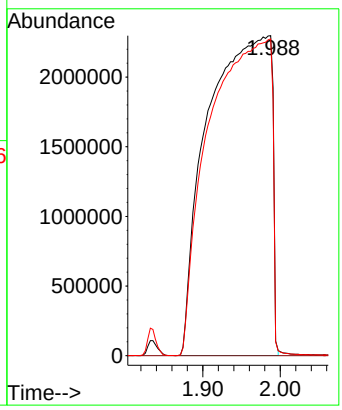


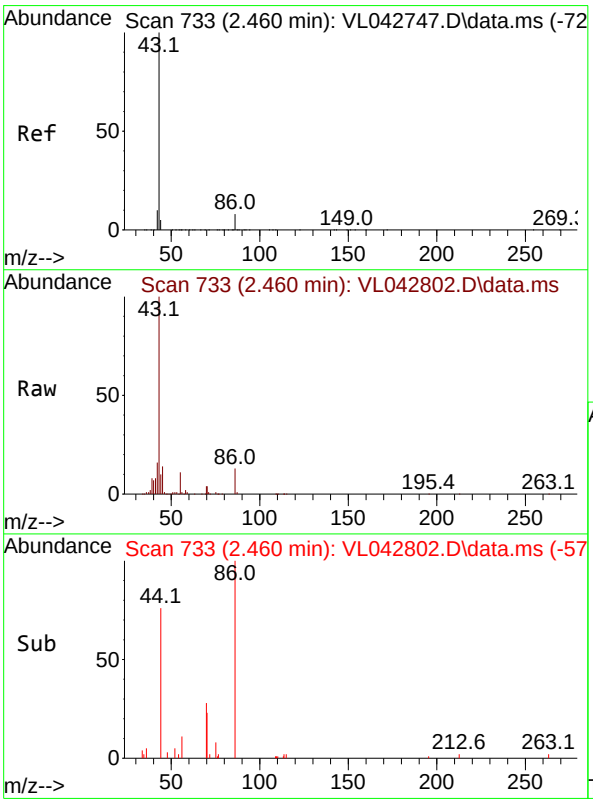
#21
Allyl Chloride
Concen: 922.751 ppbv
RT: 1.988 min Scan# 5
Delta R.T. -0.107 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 41 Resp:13037433

Ion	Ratio	Lower	Upper
41	100		
76	0.5	21.1	31.7#
39	97.0	68.3	102.5

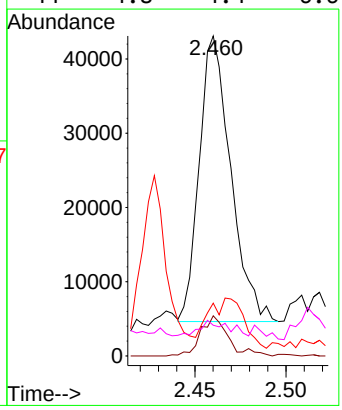


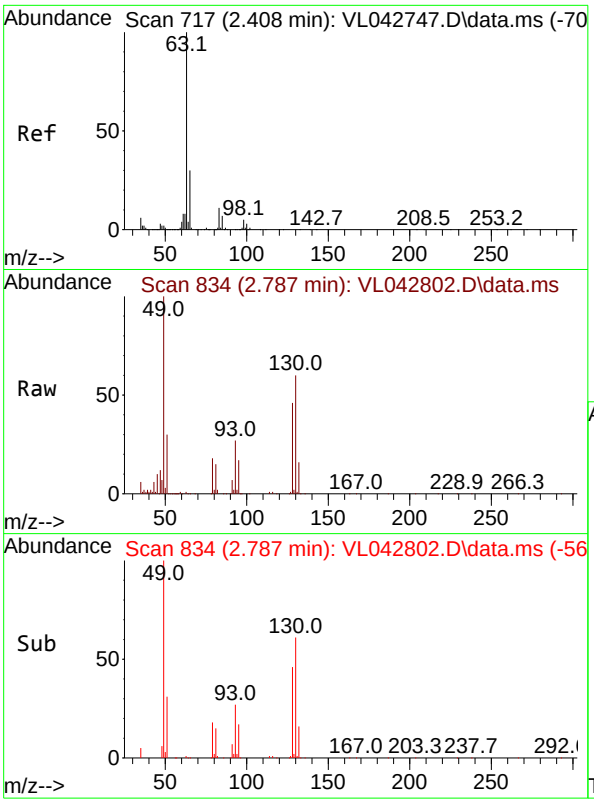


#23
Vinyl Acetate
Concen: 1.664 ppbv
RT: 2.460 min Scan# 733
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 43 Resp: 46259

Ion	Ratio	Lower	Upper
43	100		
86	13.8	6.1	9.1#
42	14.1	7.8	11.8#
44	4.8	4.4	6.6



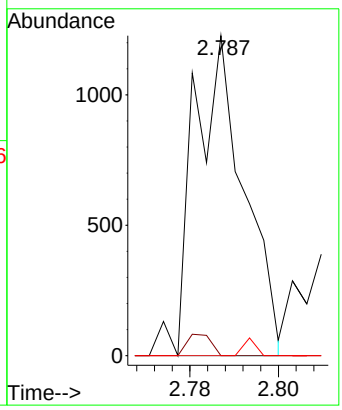


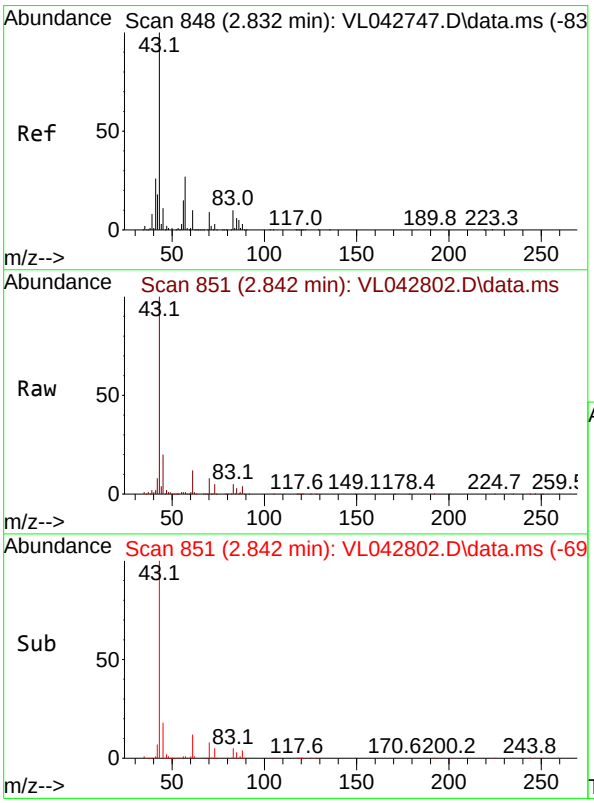
#24
1,1-Dichloroethane
Concen: 0.055 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.379 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 63 Resp: 939

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.5	7.4#
100	0.0	1.6	4.8#

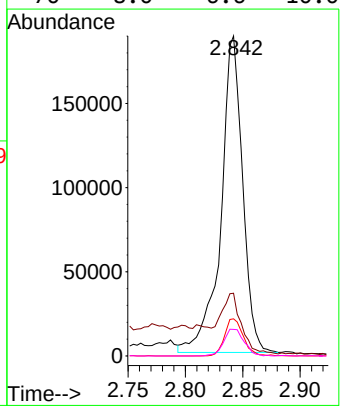


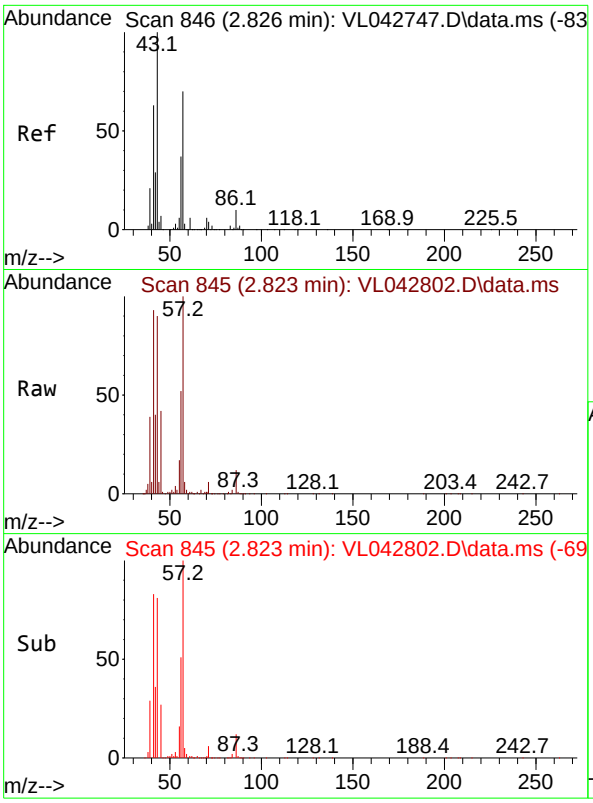


#25
Ethyl Acetate
Concen: 4.876 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 43 Resp: 247439

Ion	Ratio	Lower	Upper
43	100		
45	33.5	7.8	11.6#
61	10.2	6.7	10.1#
70	8.0	6.6	10.0



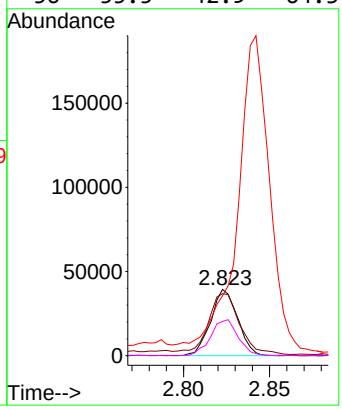


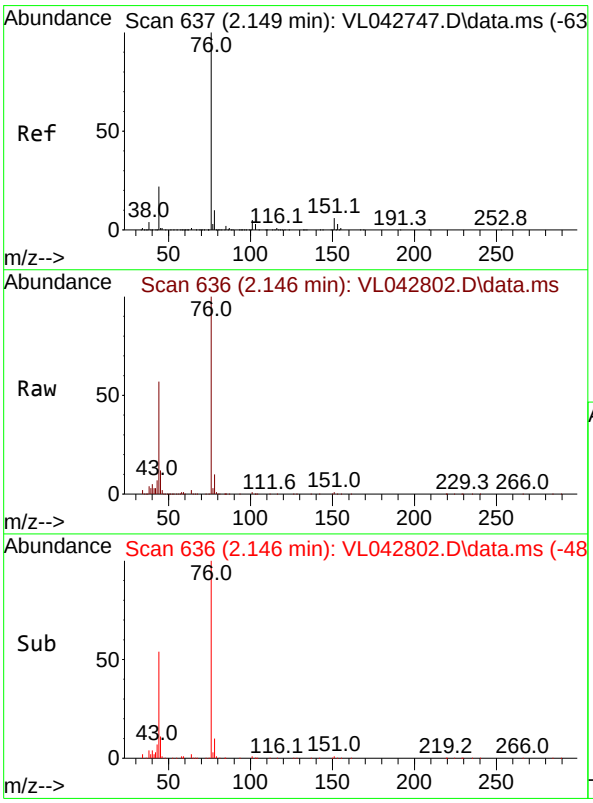
#26
Hexane
Concen: 1.924 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 57 Resp: 42838

Ion	Ratio	Lower	Upper
57	100		
41	117.1	75.4	113.2#
43	637.0	185.0	277.6#
56	55.5	42.9	64.3

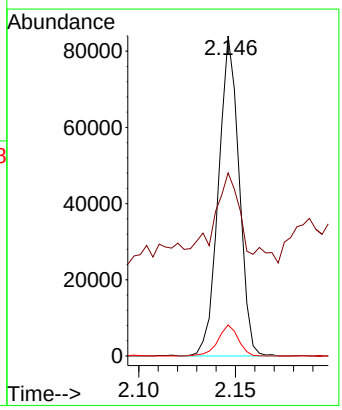


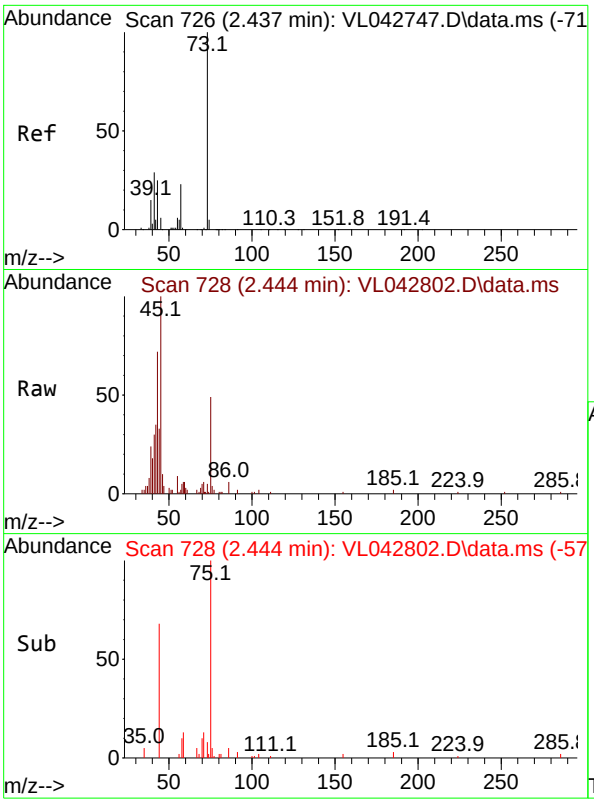


#27
Carbon Disulfide
Concen: 3.257 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 76 Resp: 62067

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.5	9.9	14.9#



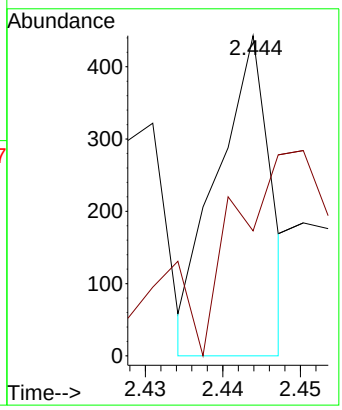


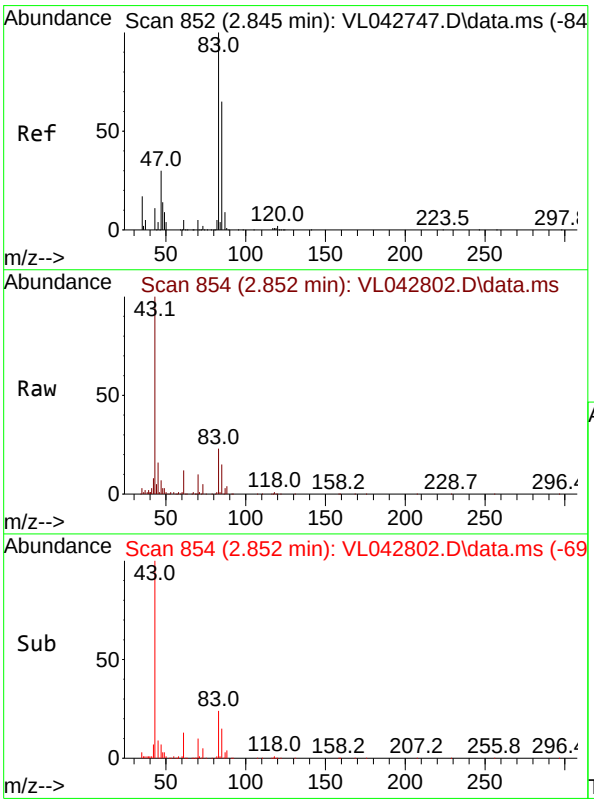
#28
Methyl tert-Butyl Ether
Concen: 0.020 ppbv
RT: 2.444 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 73 Resp: 215

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.8	29.8#

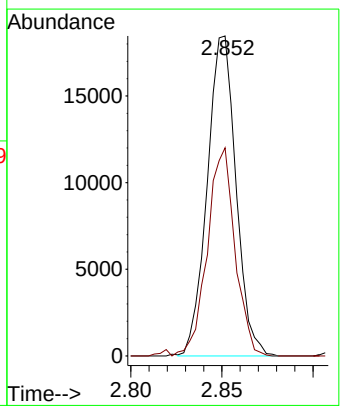


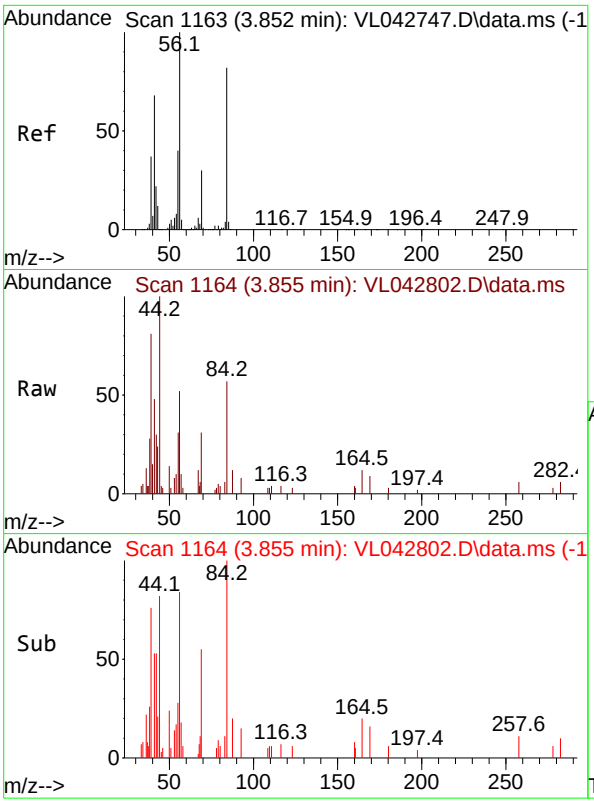


#29
Chloroform
Concen: 0.590 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 83 Resp: 20293

Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.2	78.2



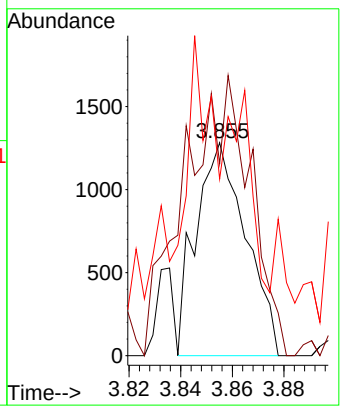


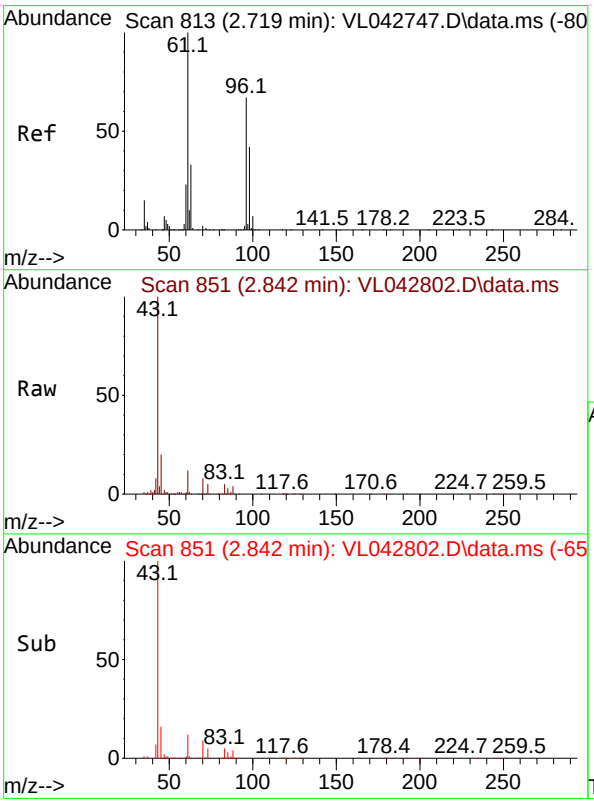
#30
Cyclohexane
Concen: 0.091 ppbv
RT: 3.855 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 84 Resp: 1722

Ion	Ratio	Lower	Upper
84	100		
56	172.5	97.5	146.3#
41	162.0	67.2	100.8#

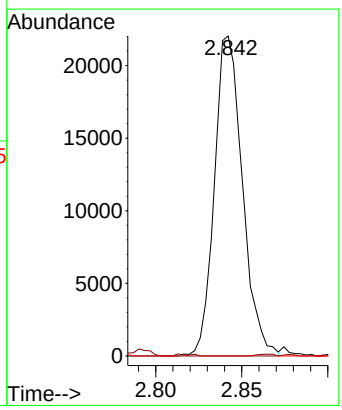


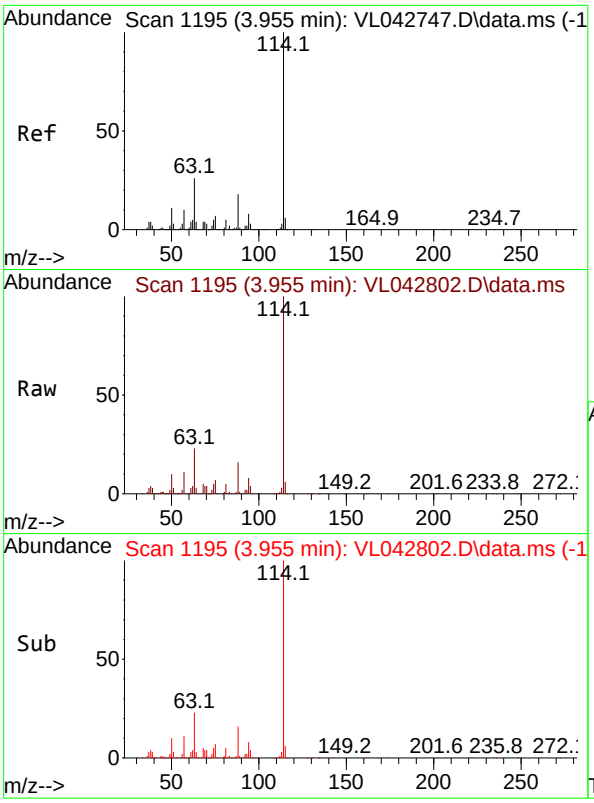


#31
cis-1,2-Dichloroethene
Concen: 1.092 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.123 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 61 Resp: 24989

Ion	Ratio	Lower	Upper
61	100		
96	0.0	53.5	80.3#
98	0.0	33.6	50.4#



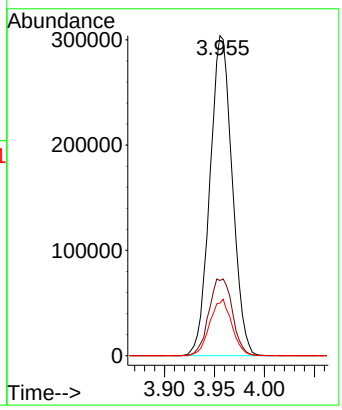


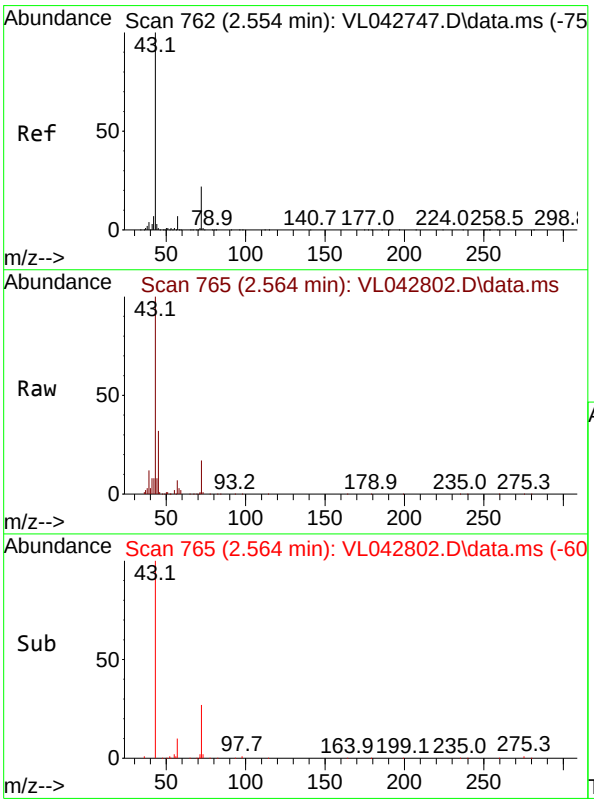
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion:114 Resp: 471810

Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.5	30.7
88	17.4	14.0	21.0

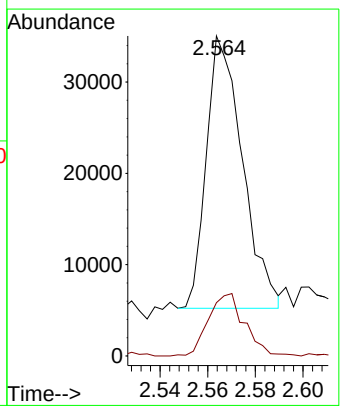


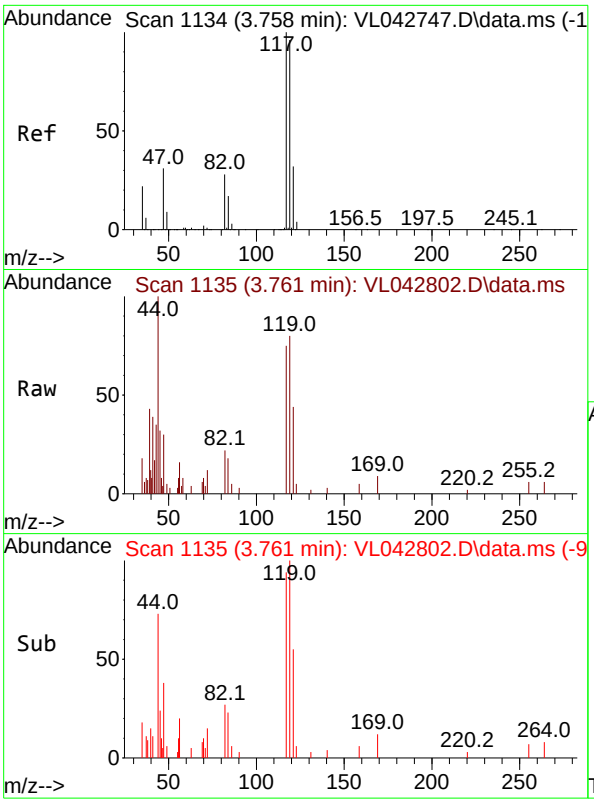


#34
2-Butanone
Concen: 0.938 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 43 Resp: 31346

Ion	Ratio	Lower	Upper
43	100		
72	23.5	17.4	26.0



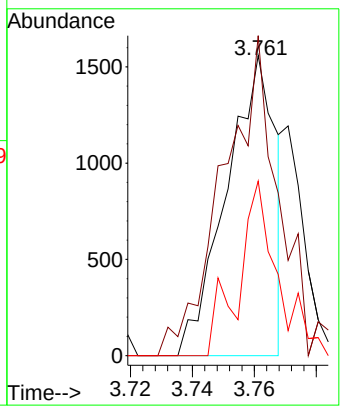


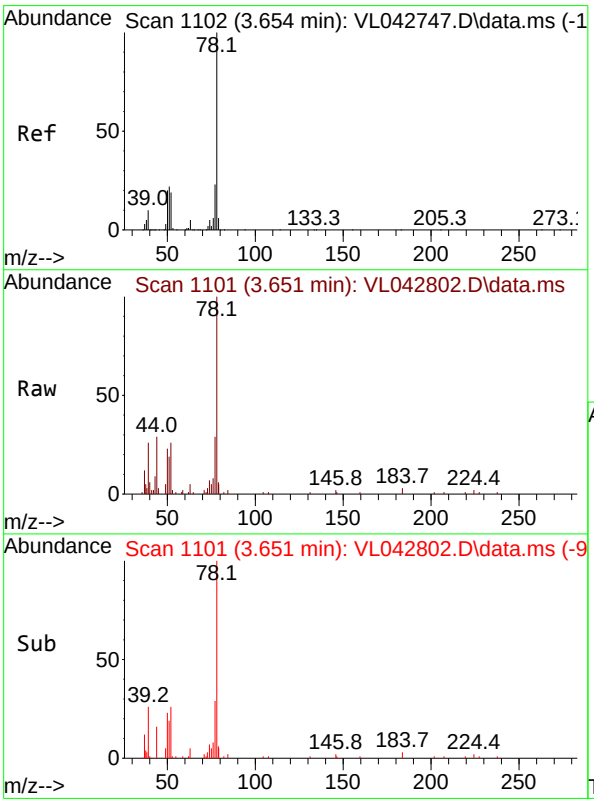
#35
Carbon Tetrachloride
Concen: 0.049 ppbv
RT: 3.761 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion:117 Resp: 1718

Ion	Ratio	Lower	Upper
117	100		
119	100.3	77.1	115.7
121	58.2	25.5	38.3#

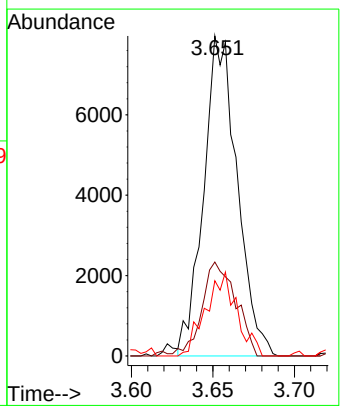


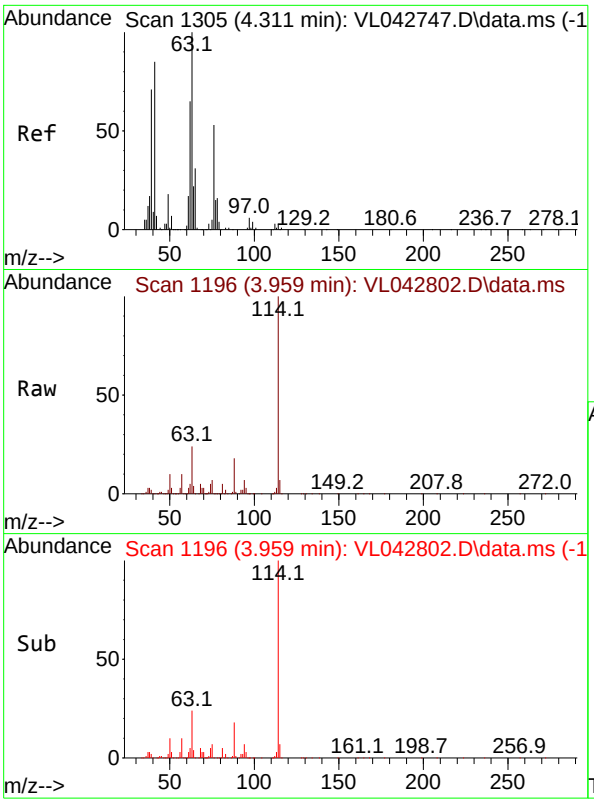


#36
Benzene
Concen: 0.255 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 78 Resp: 11411

Ion	Ratio	Lower	Upper
78	100		
77	29.3	18.5	27.7#
50	23.5	16.2	24.2



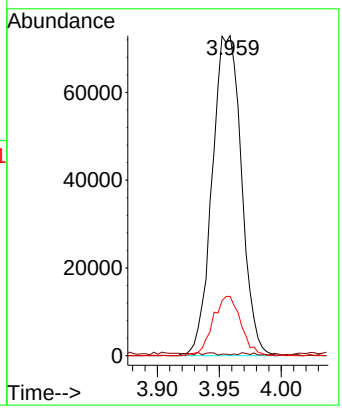


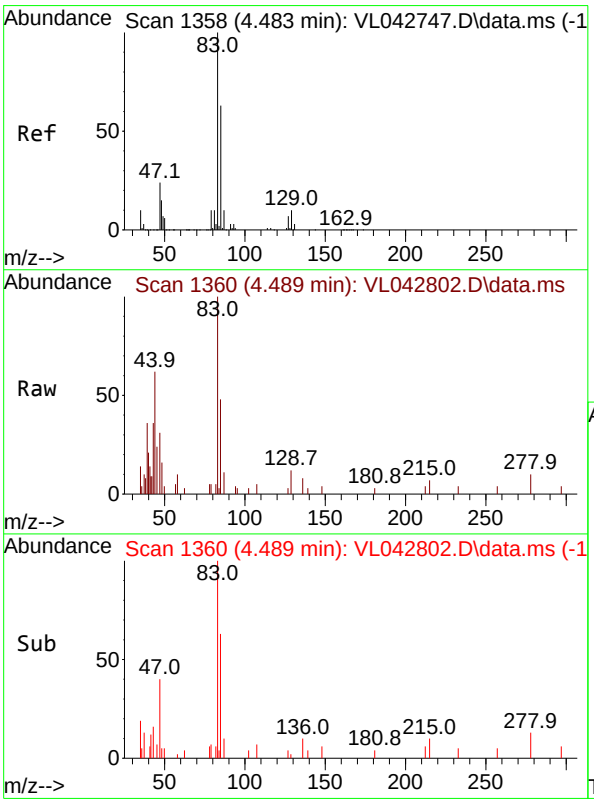
#39
1,2-Dichloropropane
Concen: 7.262 ppbv
RT: 3.959 min Scan# 11
Delta R.T. -0.353 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 63 Resp: 119868

Ion	Ratio	Lower	Upper
63	100		
41	0.0	68.2	102.4#
62	18.5	52.0	78.0#

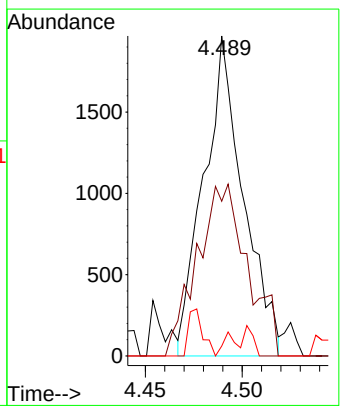


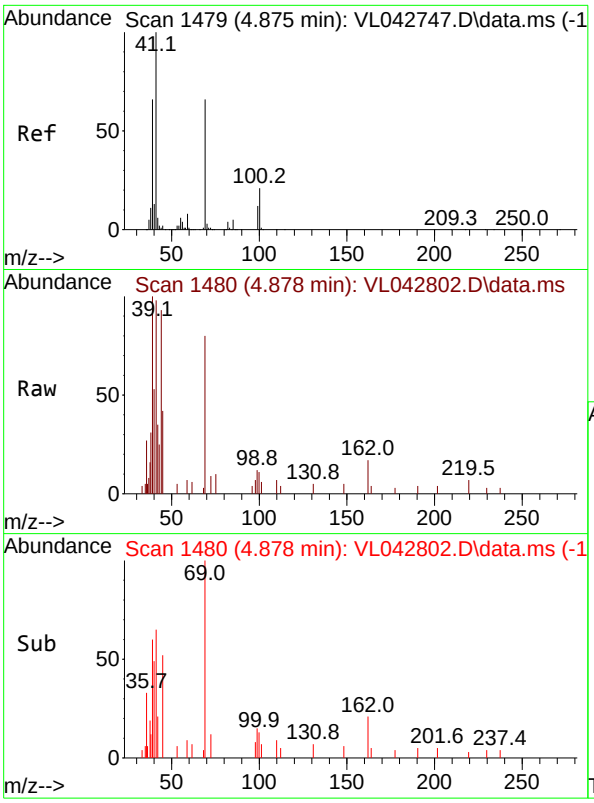


#42
Bromodichloromethane
Concen: 0.080 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.006 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 83 Resp: 2796

Ion	Ratio	Lower	Upper
83	100		
85	51.4	50.2	75.4
127	3.3	5.4	8.2#



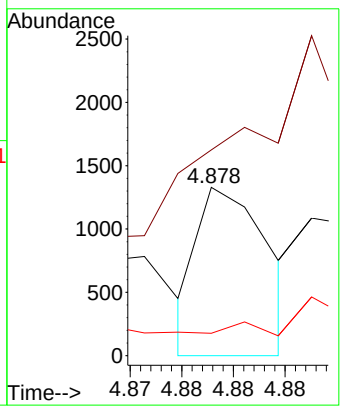


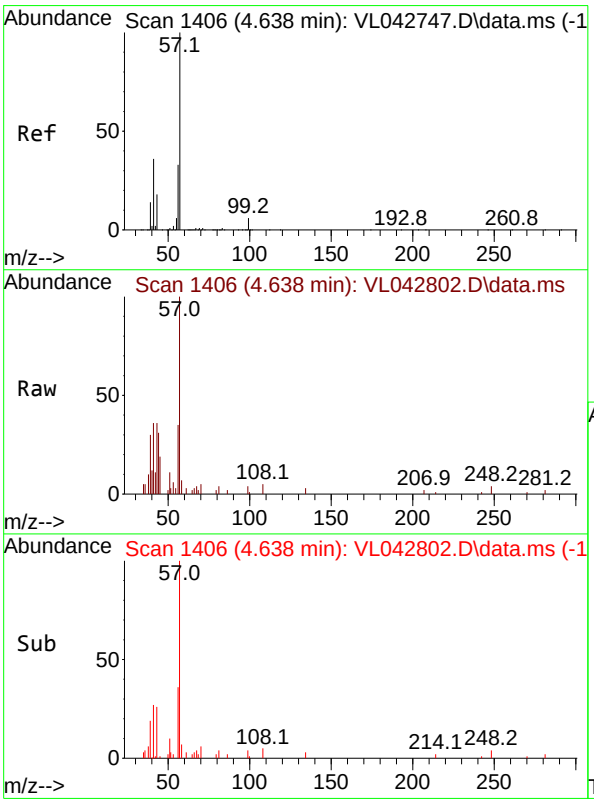
#43
Methyl Methacrylate
Concen: 0.040 ppbv
RT: 4.878 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 69 Resp: 633

Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	0.0	28.6	42.8#

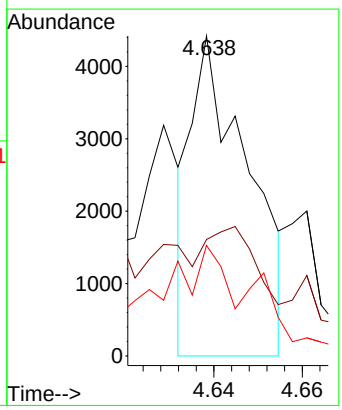


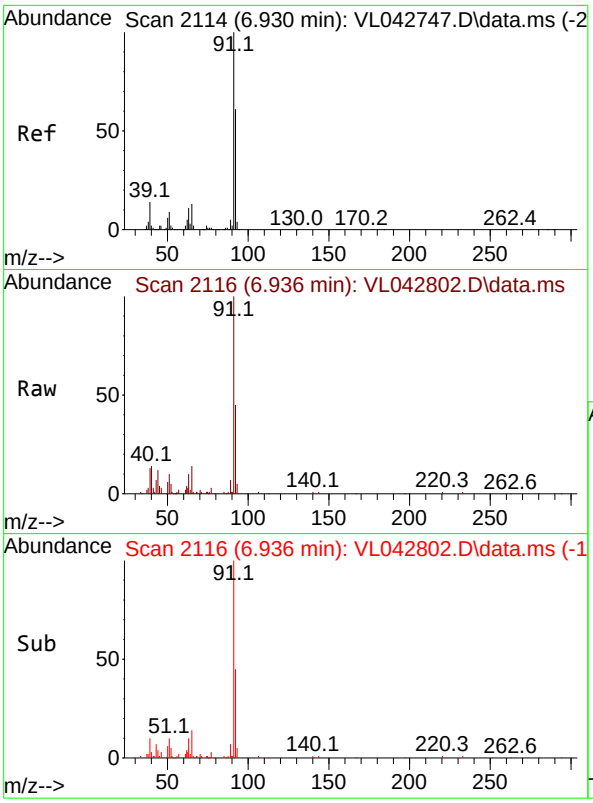


#44
2,2,4-Trimethylpentane
Concen: 0.054 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 57 Resp: 3961

Ion	Ratio	Lower	Upper
57	100		
41	105.9	28.3	42.5#
56	90.6	25.8	38.6#



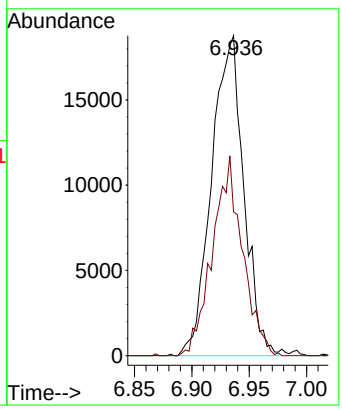


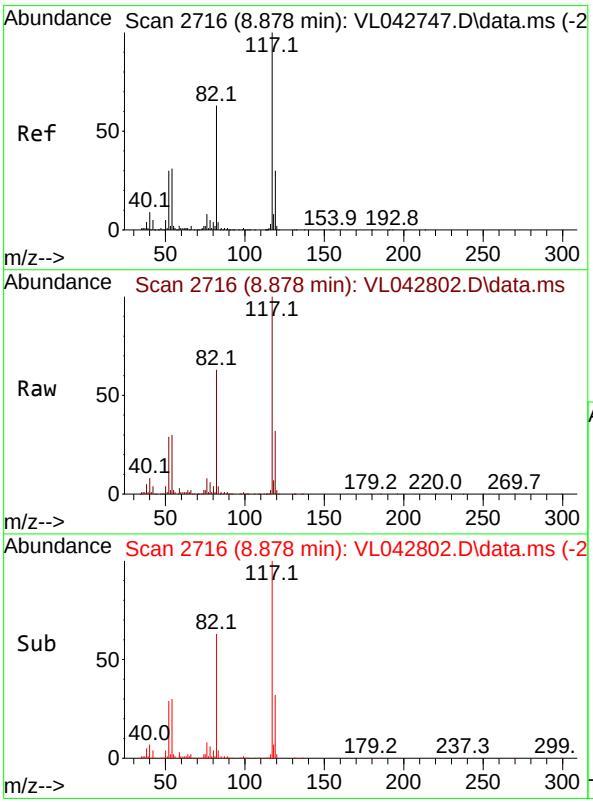
#53
Toluene
Concen: 0.761 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 91 Resp: 36533

Ion	Ratio	Lower	Upper
91	100		
92	58.3	48.0	72.0

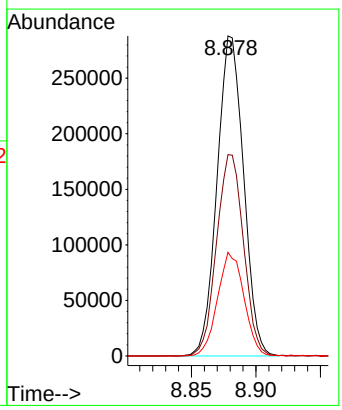


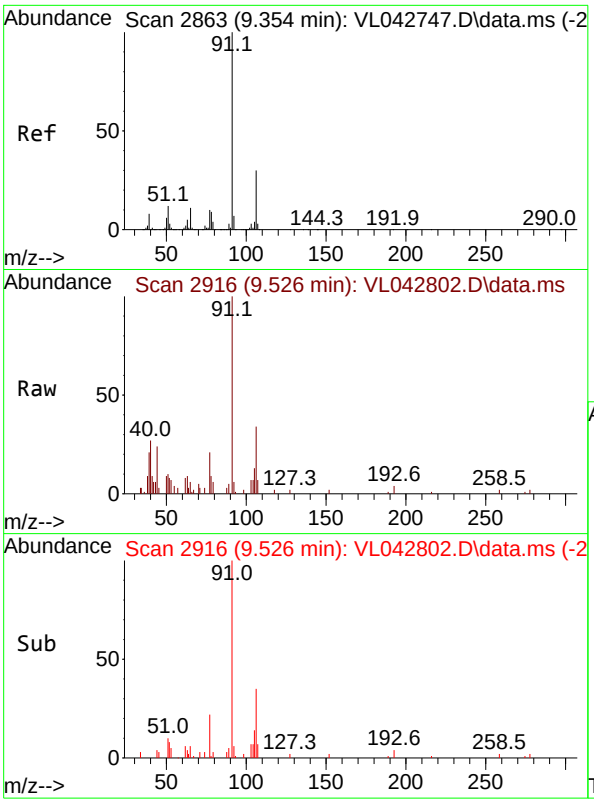


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion:117 Resp: 410967

Ion	Ratio	Lower	Upper
117	100		
82	64.0	53.3	79.9
119	32.4	25.8	38.6



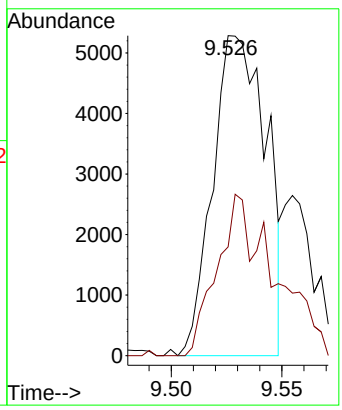


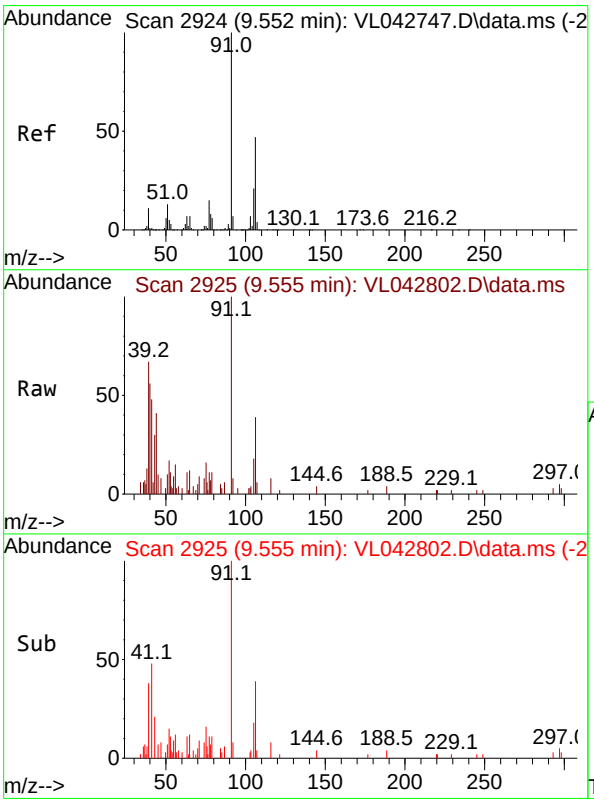
#58
Ethyl Benzene
Concen: 0.137 ppbv
RT: 9.526 min Scan# 2
Delta R.T. 0.171 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 91 Resp: 8865

Ion	Ratio	Lower	Upper
91	100		
106	34.0	23.8	35.6

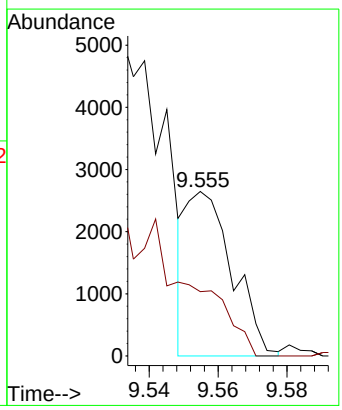


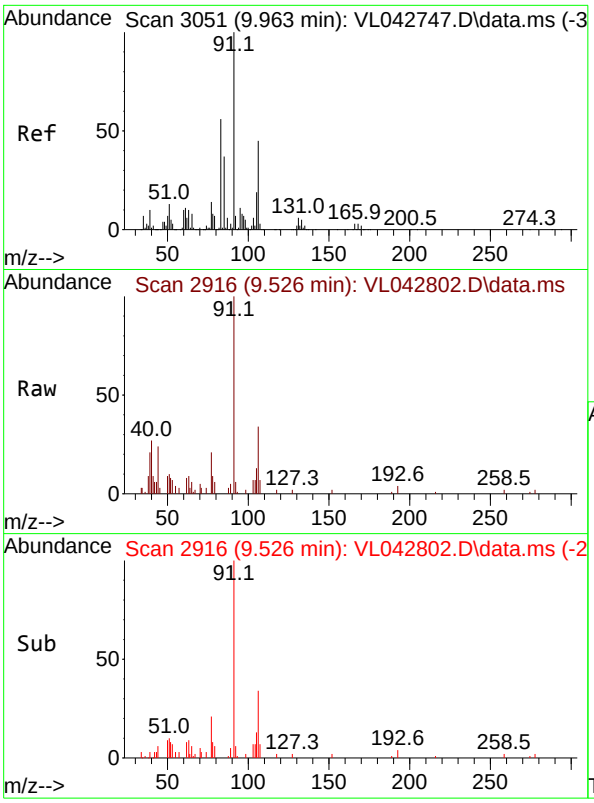


#59
m/p-Xylene
Concen: 0.048 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 91 Resp: 2465

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#



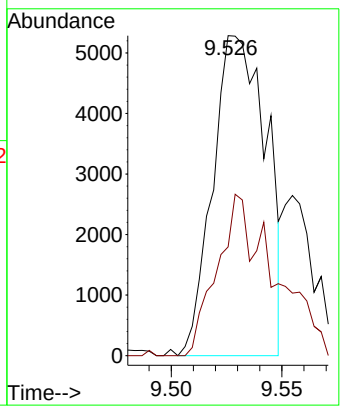


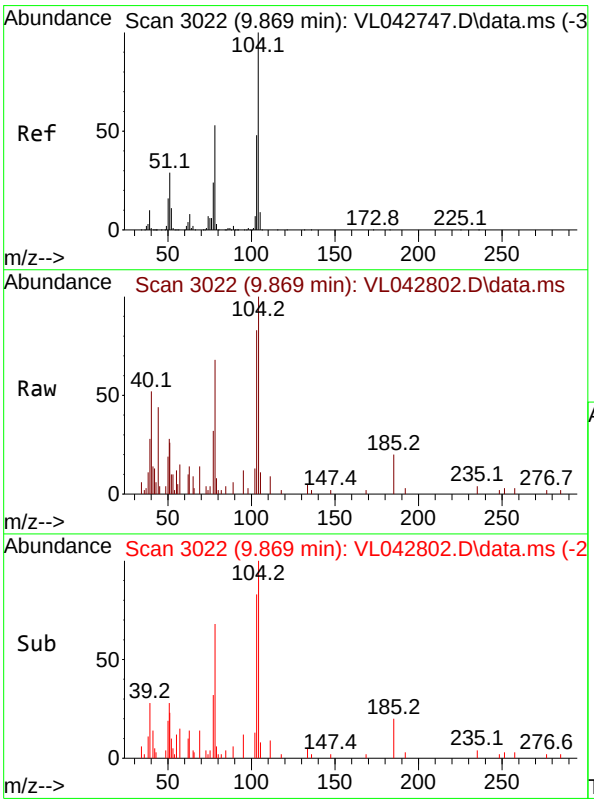
#60
o-Xylene
Concen: 0.171 ppbv
RT: 9.526 min Scan# 2
Delta R.T. -0.437 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 91 Resp: 8865

Ion	Ratio	Lower	Upper
91	100		
106	53.9	22.0	66.0

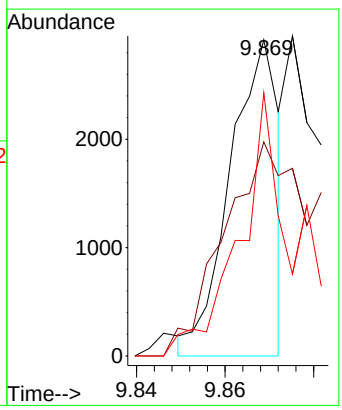


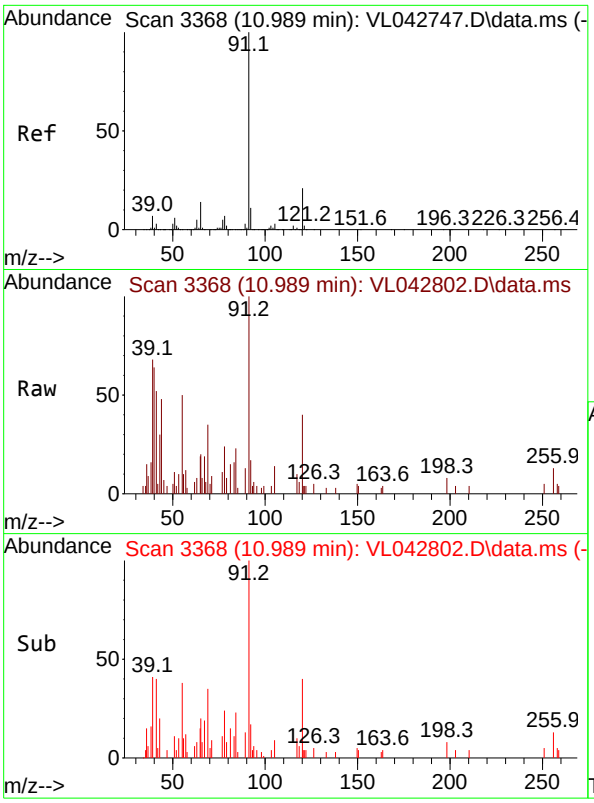


#61
Styrene
Concen: 0.102 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion:104 Resp: 2231

Ion	Ratio	Lower	Upper
104	100		
78	122.8	41.5	62.3#
103	94.6	37.5	56.3#



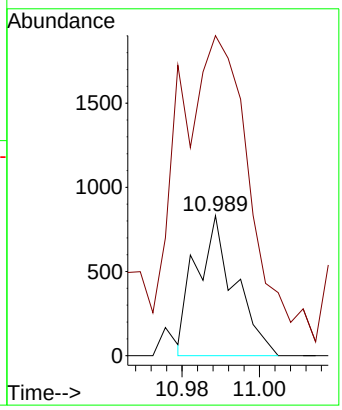


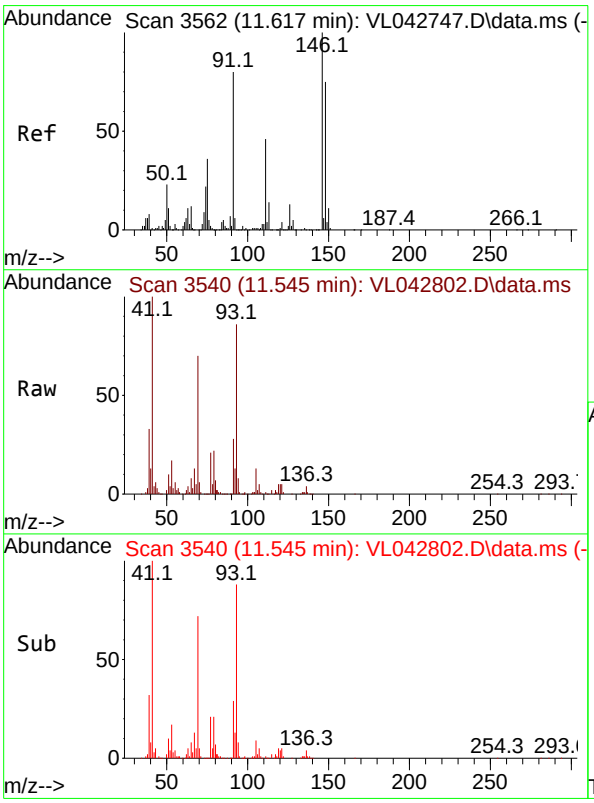
#64
n-propylbenzene
Concen: 0.029 ppbv
RT: 10.989 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion:120 Resp: 582

Ion	Ratio	Lower	Upper
120	100		
91	435.9	372.7	559.1

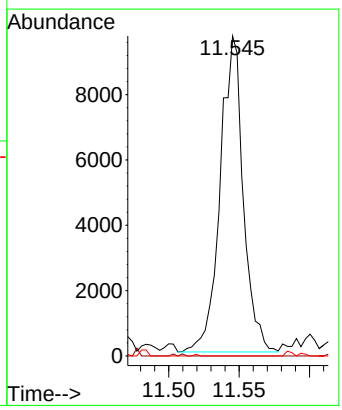


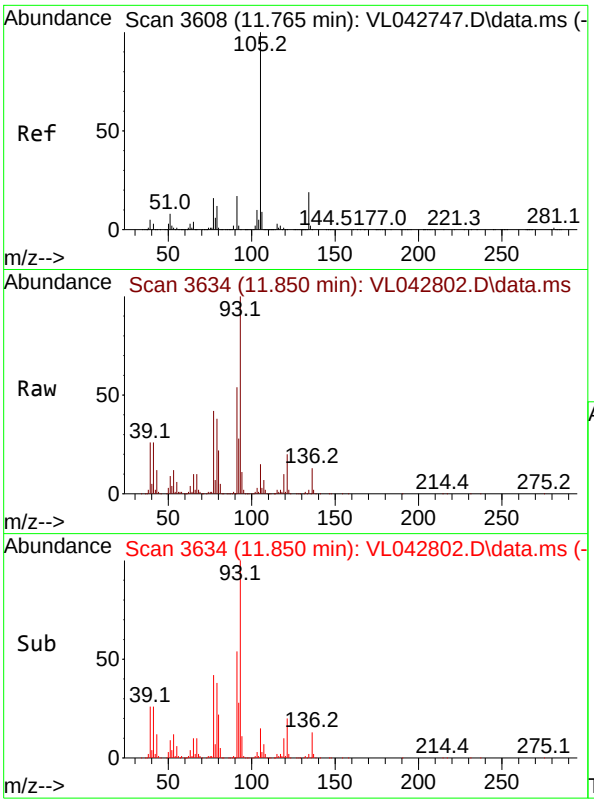


#66
Benzyl Chloride
Concen: 1.986 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.071 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 91 Resp: 11074

Ion	Ratio	Lower	Upper
91	100		
126	0.3	14.4	21.6#
128	0.7	5.2	7.8#



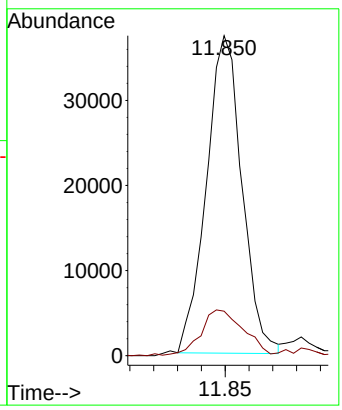


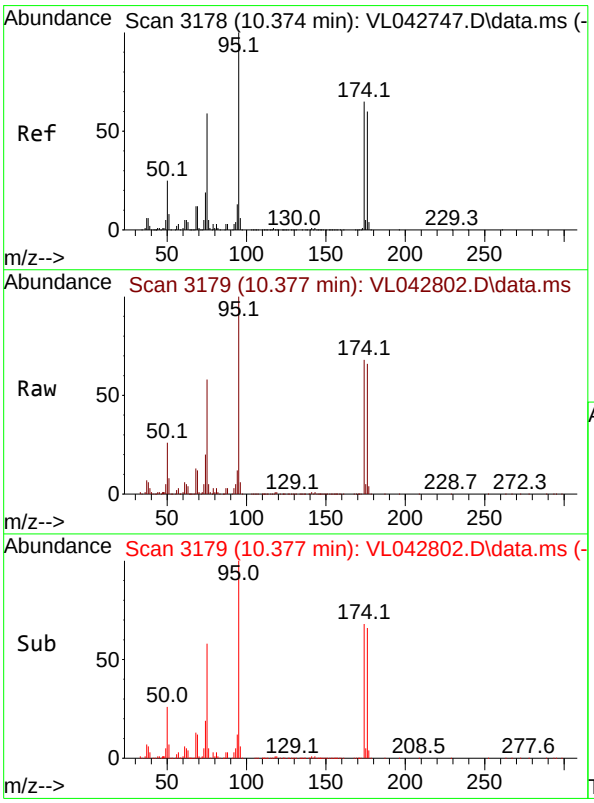
#67
sec-Butylbenzene
Concen: 0.401 ppbv
RT: 11.850 min Scan# 3
Delta R.T. 0.084 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion:105 Resp: 38757

Ion	Ratio	Lower	Upper
105	100		
134	18.1	15.5	23.3

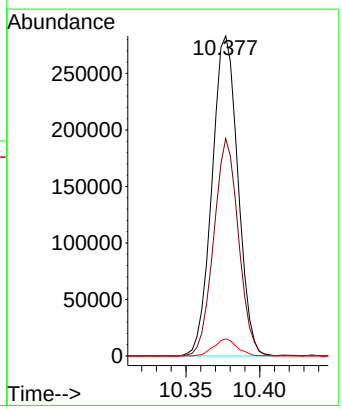


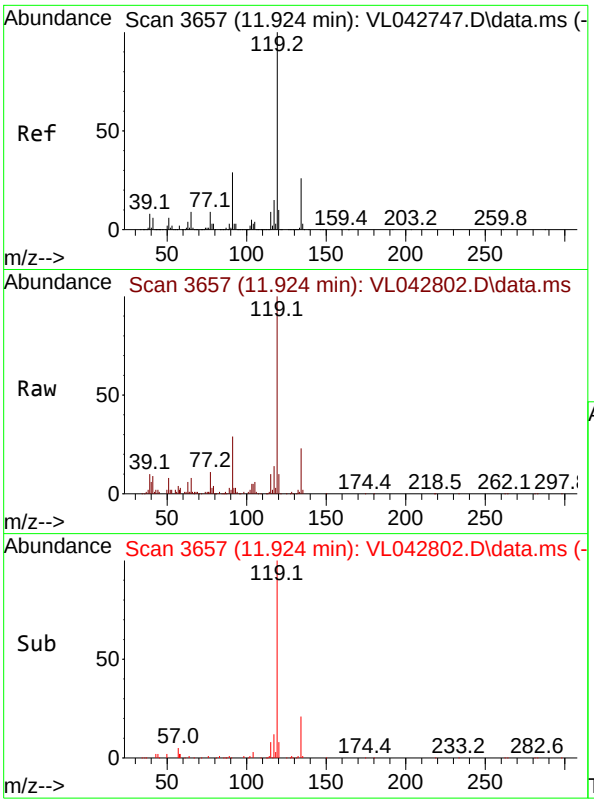


#68
1-Bromo-4-Fluorobenzene
Concen: 10.619 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 95 Resp: 345607

Ion	Ratio	Lower	Upper
95	100		
174	65.1	53.8	80.6
175	4.9	4.0	6.0



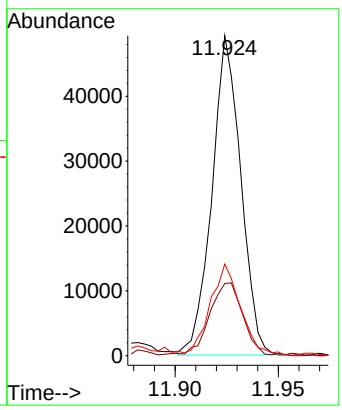


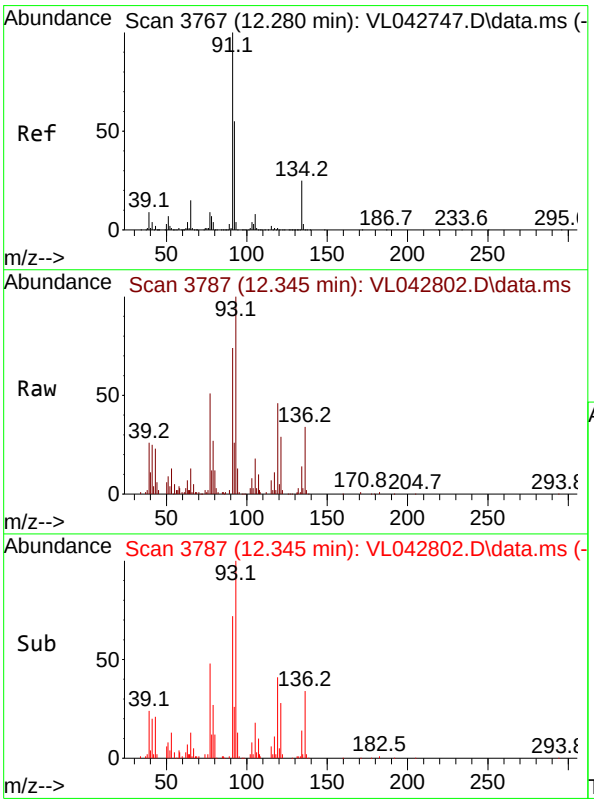
#69
p-Isopropyltoluene
Concen: 0.608 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion:119 Resp: 47903

Ion	Ratio	Lower	Upper
119	100		
134	26.7	20.6	31.0
91	30.5	23.2	34.8

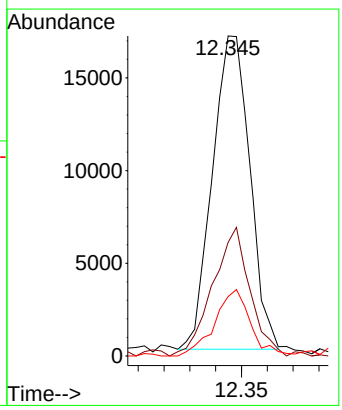


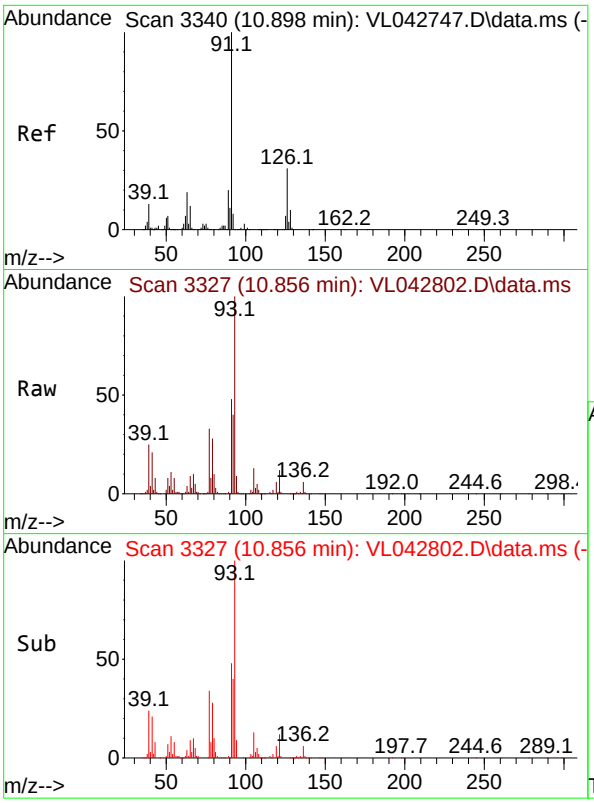


#70
n-Butylbenzene
Concen: 0.224 ppbv
RT: 12.345 min Scan# 3787
Delta R.T. 0.065 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 91 Resp: 17047

Ion	Ratio	Lower	Upper
91	100		
92	42.8	43.4	65.2#
134	20.8	19.6	29.4



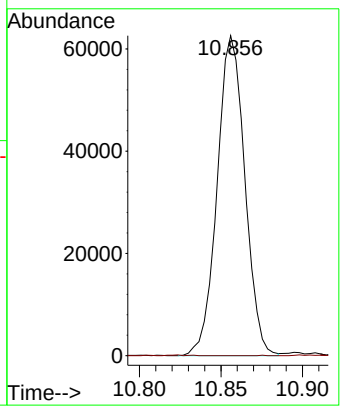


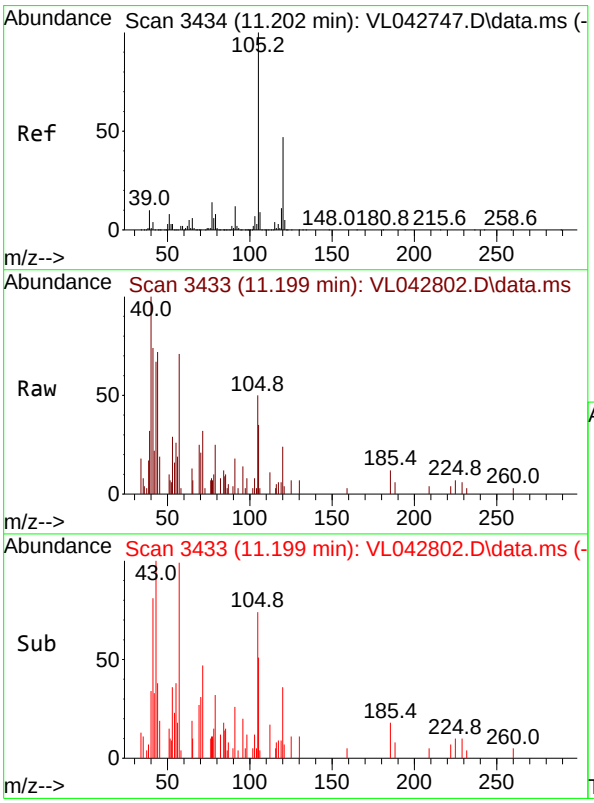
#71
2-Chlorotoluene
Concen: 1.261 ppbv
RT: 10.856 min Scan# 3
Delta R.T. -0.042 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 91 Resp: 73906

Ion	Ratio	Lower	Upper
91	100		
126	0.2	12.0	48.2#

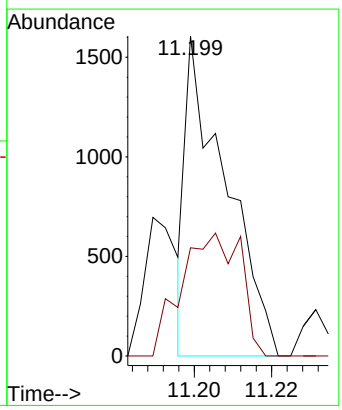


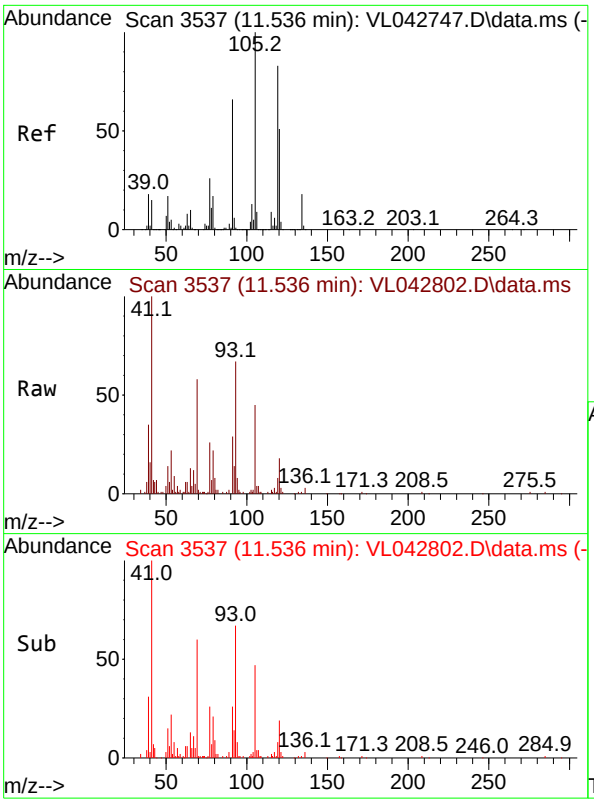


#73
1,3,5-Trimethylbenzene
Concen: 0.023 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion:105 Resp: 1161

Ion	Ratio	Lower	Upper
105	100		
120	33.8	37.8	56.8#



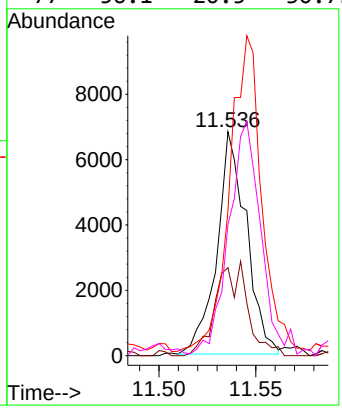


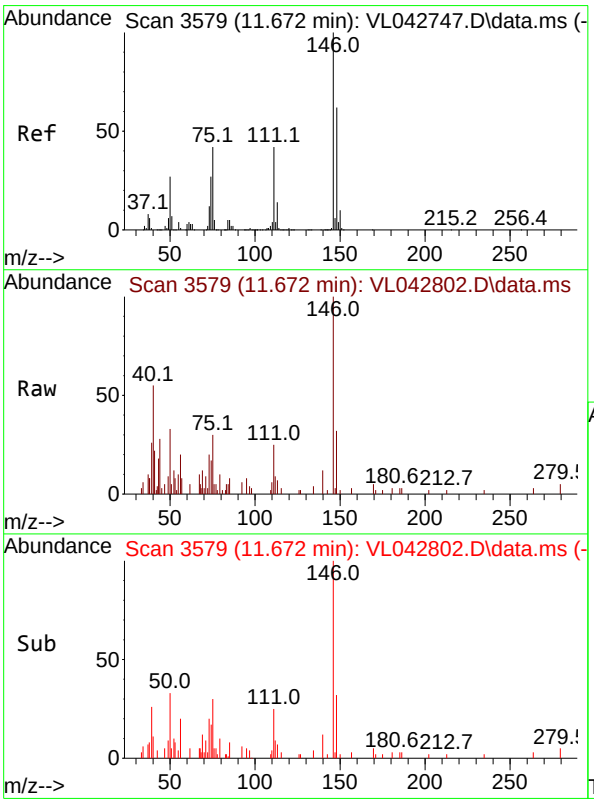
#74
1,2,4-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion:105 Resp: 7196

Ion	Ratio	Lower	Upper
105	100		
120	39.6	40.8	61.2#
91	63.1	53.0	79.4
77	56.1	20.5	30.7#

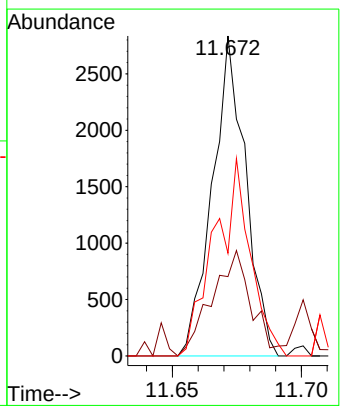


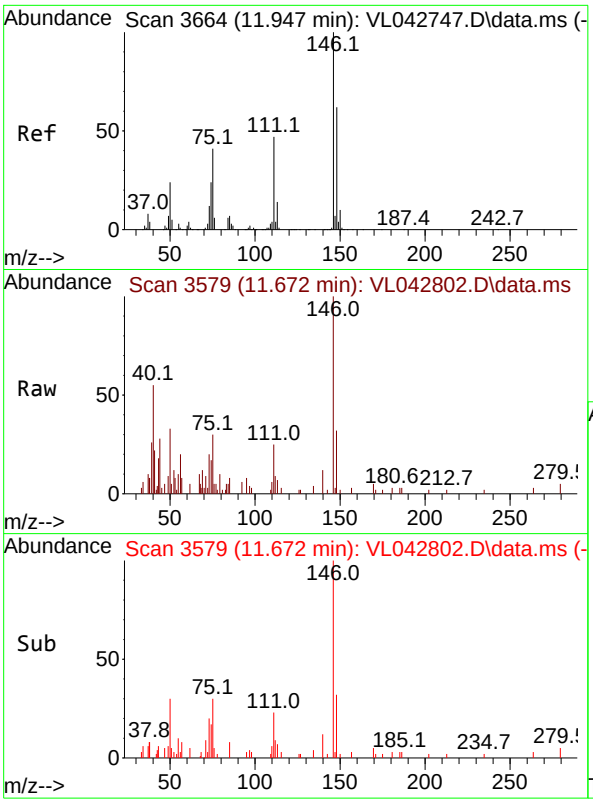


#76
1,4-Dichlorobenzene
Concen: 0.067 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion:146 Resp: 2545

Ion	Ratio	Lower	Upper
146	100		
111	54.9	21.4	64.2
148	66.5	32.1	96.3



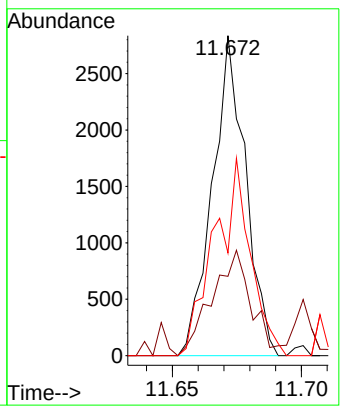


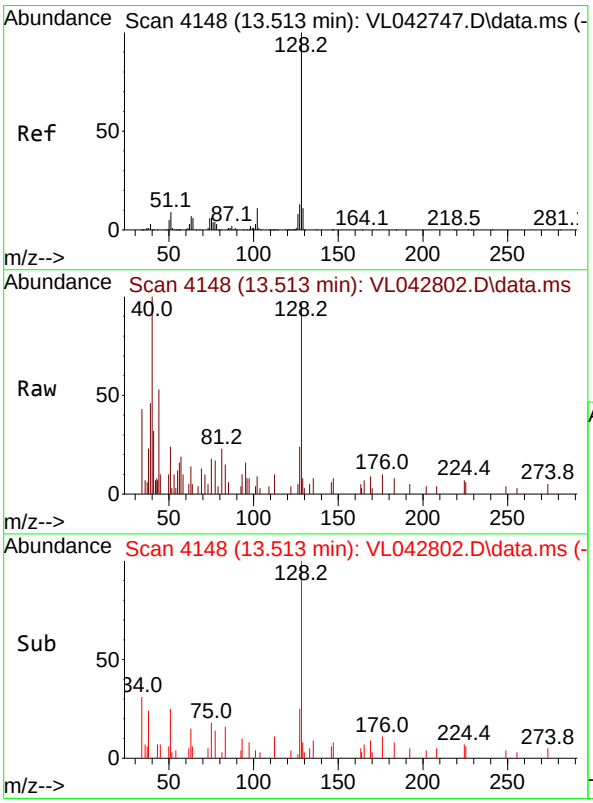
#77
1,2-Dichlorobenzene
Concen: 0.066 ppbv
RT: 11.672 min Scan# 3
Delta R.T. -0.275 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion:146 Resp: 2545

Ion	Ratio	Lower	Upper
146	100		
111	41.6	23.7	71.1
148	69.9	32.6	97.7

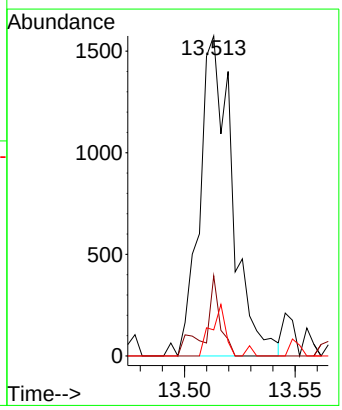


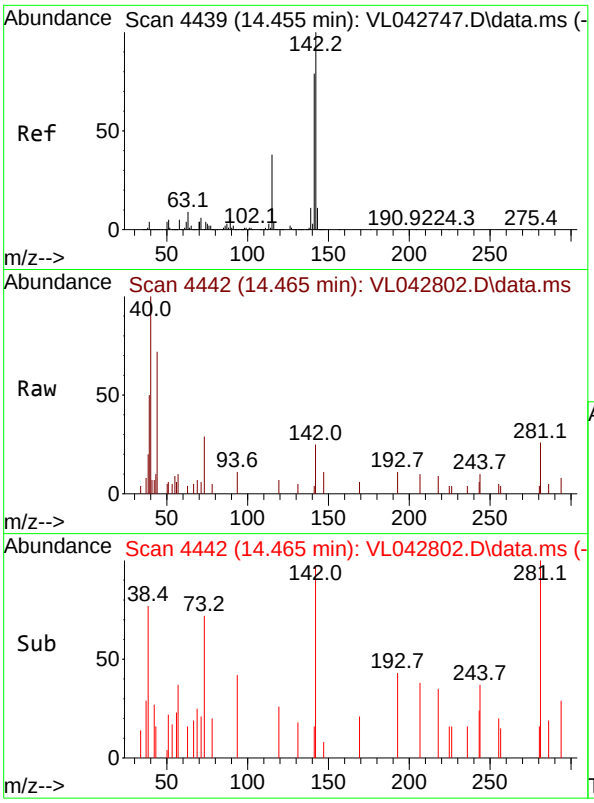


#79
Naphthalene
Concen: 0.461 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion:128 Resp: 1603

Ion	Ratio	Lower	Upper
128	100		
127	25.1	10.5	15.7#
129	8.2	8.6	13.0#



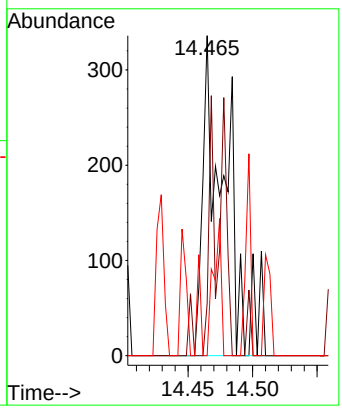


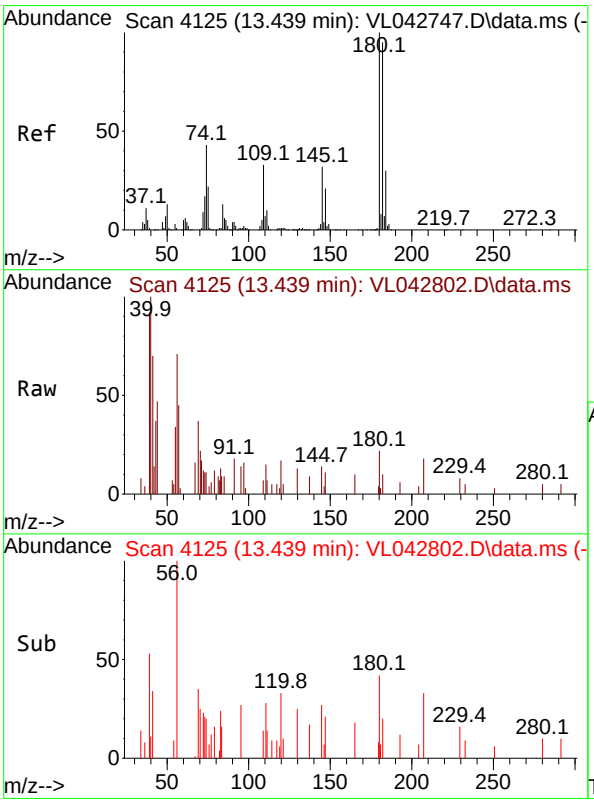
#80
Naphthalene,2-methyl-
Concen: 1.140 ppbv
RT: 14.465 min Scan# 44
Delta R.T. 0.010 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion:142 Resp: 404

Ion	Ratio	Lower	Upper
142	100		
141	48.5	65.8	98.8#
115	15.1	31.2	46.8#

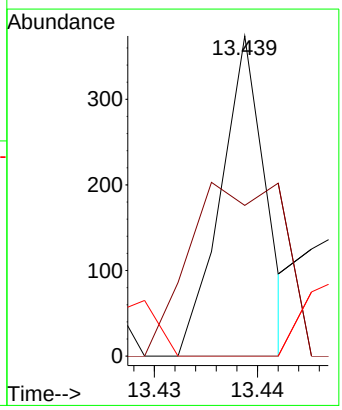




#81
1,2,4-Trichlorobenzene
Concen: 0.438 ppbv
RT: 13.439 min Scan# 4125
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion:180 Resp: 115

Ion	Ratio	Lower	Upper
180	100		
182	181.7	76.2	114.2#
184	20.0	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042803.D
Acq On : 04 Aug 2025 14:03
Operator : SY/MD
Sample : Q2750-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Quant Time: Aug 05 01:05:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	164794	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	474917	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.879	117	410663	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	346200	10.645	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 106.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.473	85	30771	1.412	ppbv		99
3) Chlorodifluoromethane	1.473	51	1564377	55.117	ppbv	#	84
4) Chloromethane	1.528	50	5862	0.665	ppbv		98
5) Vinyl Chloride	1.483	62	1347	0.155	ppbv	#	44
6) Bromomethane	1.661	94	157	0.047	ppbv	#	1
7) Chloroethane	1.493	64	2266	0.673	ppbv	#	81
8) Dichlorotetrafluoroethane	1.496	85	11720	0.654	ppbv	#	21
9) Propene	1.557	41	499035	48.376	ppbv		95
10) Heptane	4.985	43	2081	0.075	ppbv	#	1
11) Trichlorofluoromethane	1.875	101	4804	0.214	ppbv		85
12) 1,1,2-Trichlorotrifluo...	2.134	101	1324	0.078	ppbv		92
13) Ethanol	1.726	45	4625427	6156.946	ppbv		93
15) Acetone	1.833	43	2183939	95.974	ppbv	#	80
16) 1,3-Butadiene	1.557	39	242347	24.968	ppbv	#	16
17) tert-Butyl alcohol	1.988	59	3769753	183.683	ppbv	#	73
19) Isopropyl Alcohol	1.939	45	14315907	1183.864	ppbv	#	47
20) Methylene Chloride	2.062	84	58902	8.214	ppbv		95
21) Allyl Chloride	1.985	41	13242426	944.233	ppbv	#	78
23) Vinyl Acetate	2.839	43	241999	8.772	ppbv	#	91
25) Ethyl Acetate	2.839	43	241999	4.805	ppbv	#	71
26) Hexane	2.823	57	145822	6.600	ppbv		96
27) Carbon Disulfide	2.147	76	60059	3.175	ppbv	#	65
28) Methyl tert-Butyl Ether	2.441	73	223	0.021	ppbv	#	50
29) Chloroform	2.849	83	18805	0.551	ppbv		99
30) Cyclohexane	3.852	84	1053	0.056	ppbv	#	1
31) cis-1,2-Dichloroethene	2.839	61	26136	1.151	ppbv	#	23
34) 2-Butanone	2.564	43	39111	1.163	ppbv		99
35) Carbon Tetrachloride	3.762	117	773	0.022	ppbv	#	19
36) Benzene	3.655	78	11806	0.262	ppbv	#	91
39) 1,2-Dichloropropane	3.956	63	119264	7.178	ppbv	#	21
41) Tetrahydrofuran	3.069	42	2749	0.161	ppbv	#	77
42) Bromodichloromethane	4.487	83	1371	0.039	ppbv	#	67
43) Methyl Methacrylate	4.878	69	498	0.031	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.645	57	1752	0.024	ppbv	#	1
51) 2-Hexanone	7.442	43	657	0.020	ppbv	#	30
53) Toluene	6.927	91	39418	0.816	ppbv		99
58) Ethyl Benzene	9.348	91	2759	0.043	ppbv		92
59) m/p-Xylene	9.552	91	1861	0.036	ppbv	#	30
60) o-Xylene	9.960	91	4662	0.090	ppbv		92
61) Styrene	9.872	104	2703	0.124	ppbv	#	47
64) n-propylbenzene	10.986	120	692	0.035	ppbv		72
65) tert-Butylbenzene	11.539	119	2513	0.037	ppbv	#	1
66) Benzyl Chloride	11.546	91	13242	2.377	ppbv	#	66

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042803.D
Acq On : 04 Aug 2025 14:03
Operator : SY/MD
Sample : Q2750-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Quant Time: Aug 05 01:05:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

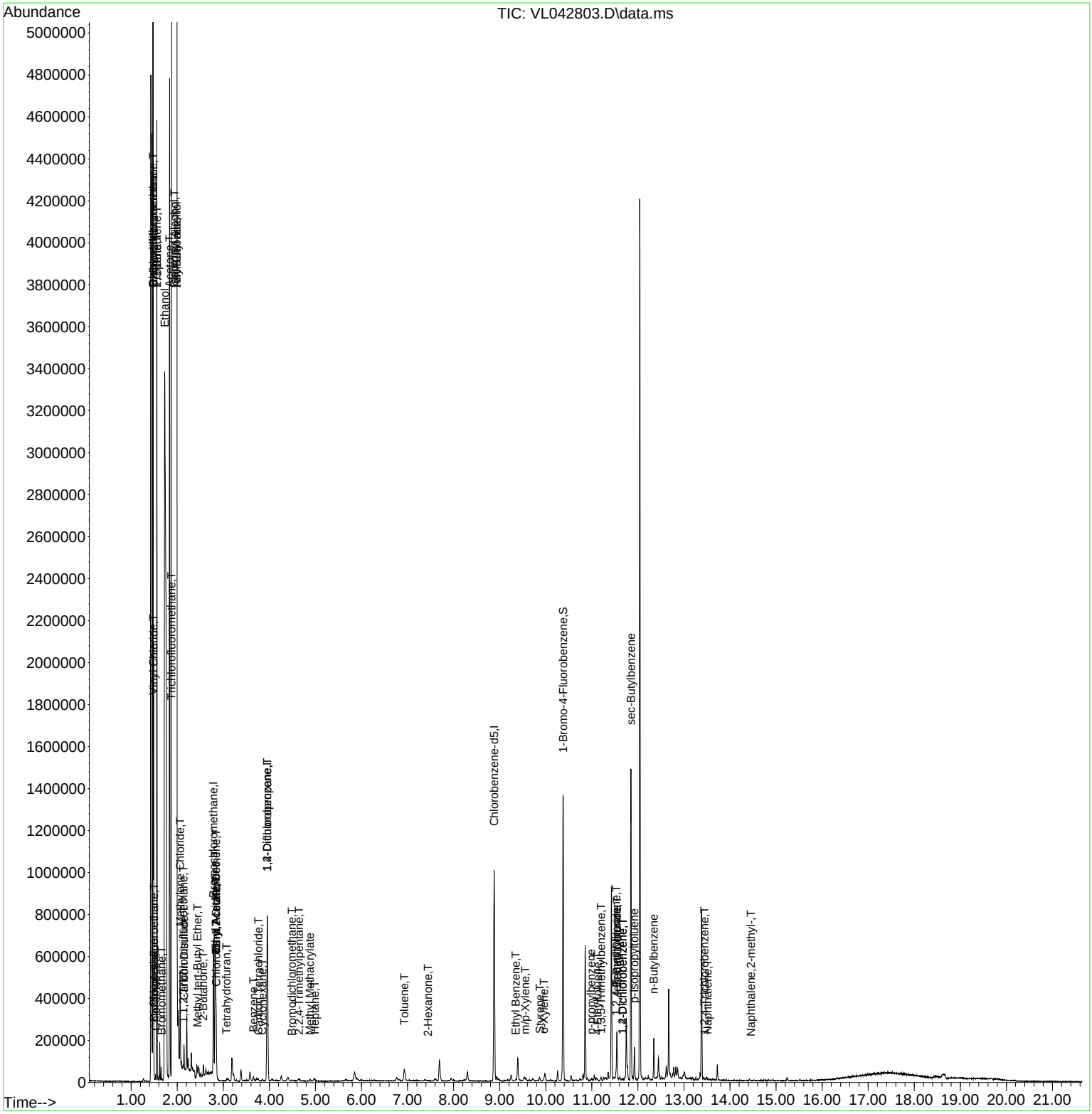
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
67) sec-Butylbenzene	11.850	105	40708	0.422	ppbv		99
69) p-Isopropyltoluene	11.924	119	50306	0.639	ppbv		99
70) n-Butylbenzene	12.345	91	19680	0.259	ppbv	#	84
72) 4-Ethyltoluene	11.125	105	2403	0.039	ppbv	#	55
73) 1,3,5-Trimethylbenzene	11.203	105	1469	0.029	ppbv		87
74) 1,2,4-Trimethylbenzene	11.533	105	9966	0.179	ppbv	#	83
76) 1,4-Dichlorobenzene	11.669	146	2292	0.060	ppbv	#	84
77) 1,2-Dichlorobenzene	11.669	146	2292	0.060	ppbv		95
79) Naphthalene	13.510	128	2763	0.479	ppbv	#	95
80) Naphthalene,2-methyl-	14.452	142	14	1.129	ppbv	#	1
81) 1,2,4-Trichlorobenzene	13.446	180	38	0.436	ppbv	#	12

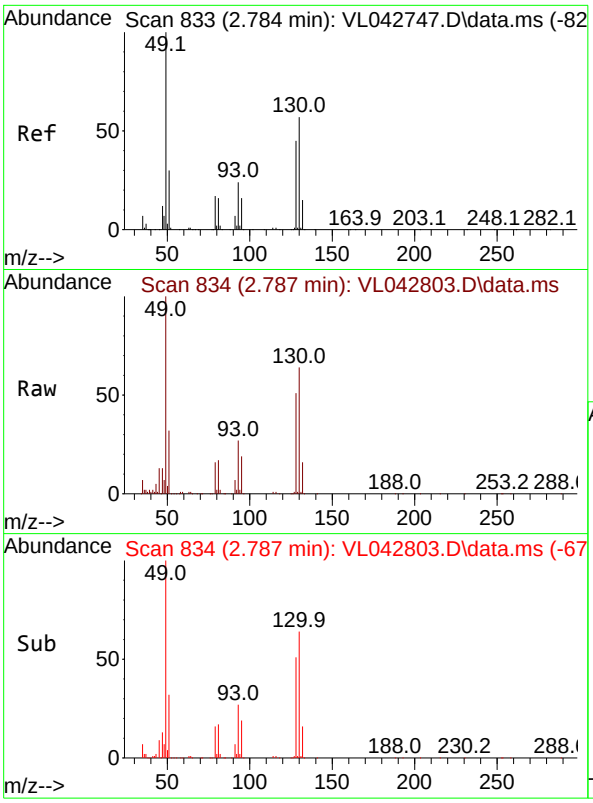
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042803.D
Acq On : 04 Aug 2025 14:03
Operator : SY/MD
Sample : Q2750-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Quant Time: Aug 05 01:05:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



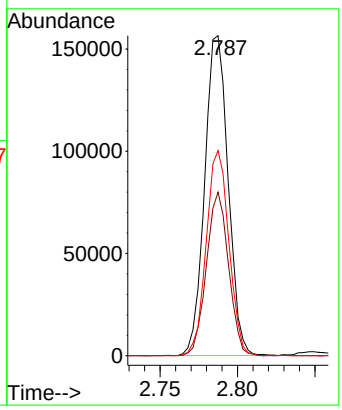


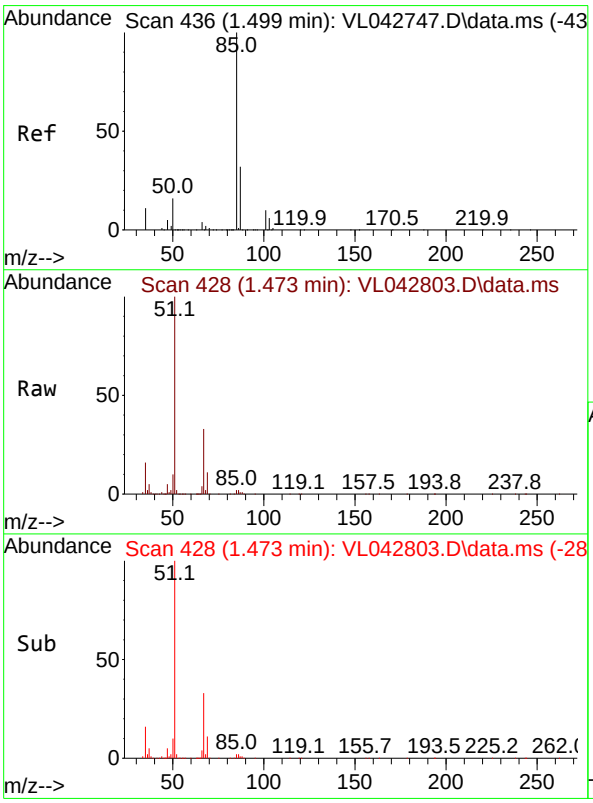
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 49 Resp: 164794

Ion	Ratio	Lower	Upper
49	100		
128	48.2	23.6	71.0
130	61.9	30.3	90.8

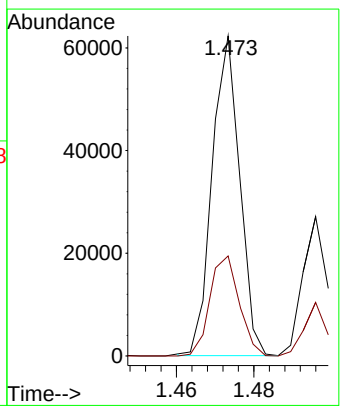


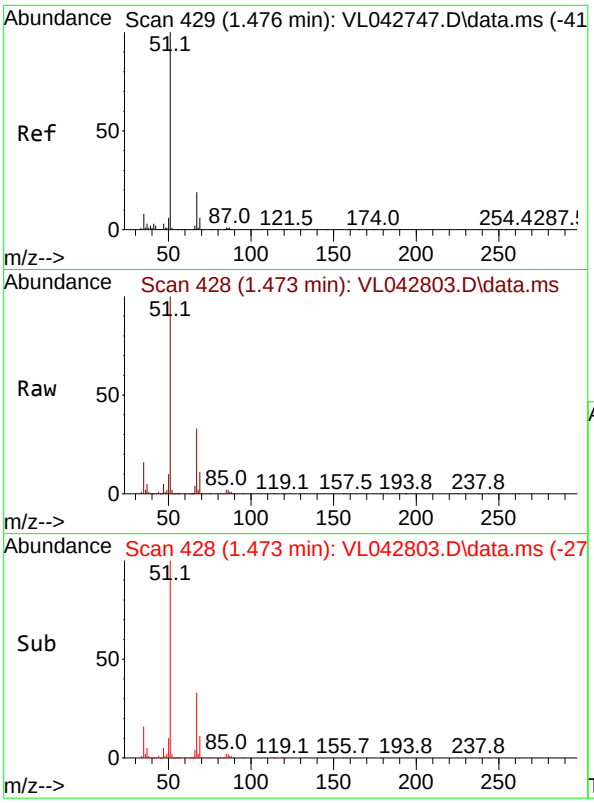


#2
Dichlorodifluoromethane
Concen: 1.412 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.026 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 85 Resp: 30771

Ion	Ratio	Lower	Upper
85	100		
87	31.3	25.4	38.2



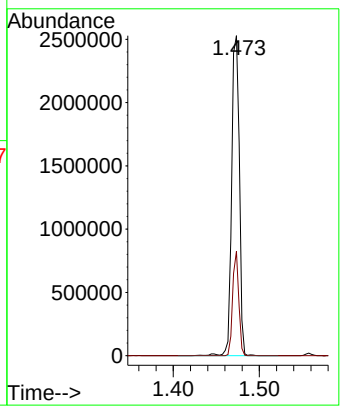


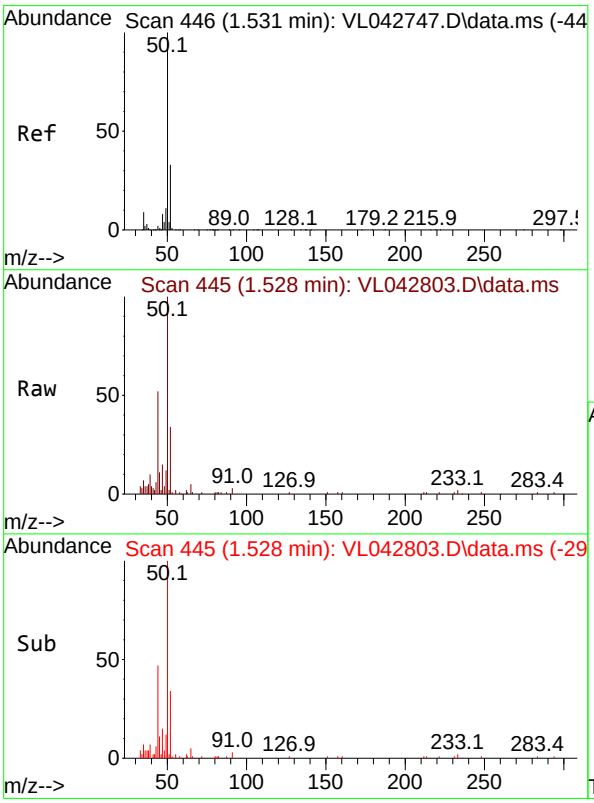
#3
Chlorodifluoromethane
Concen: 55.117 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 51 Resp: 1564377

Ion	Ratio	Lower	Upper
51	100		
67	25.9	15.0	22.6#

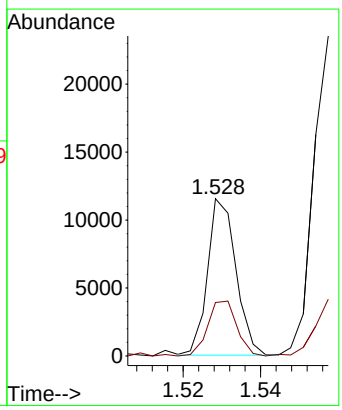


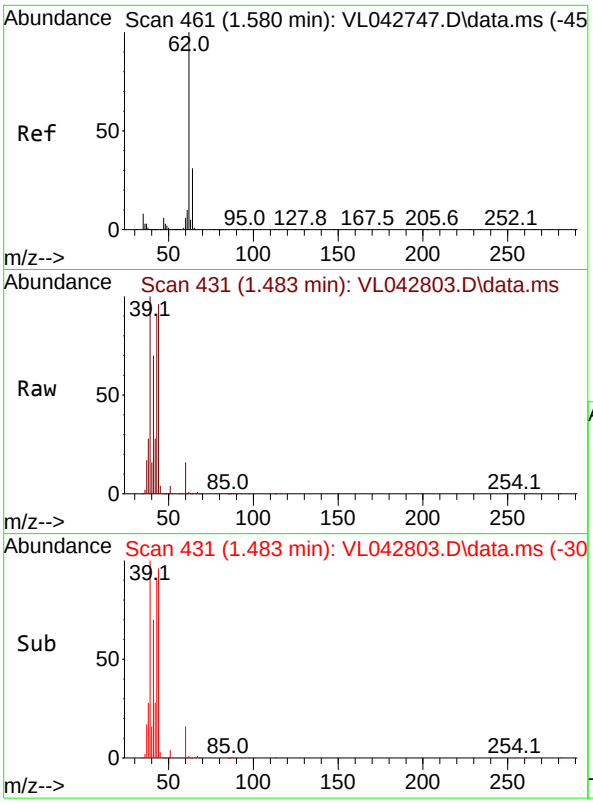


#4
Chloromethane
Concen: 0.665 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 50 Resp: 5862

Ion	Ratio	Lower	Upper
50	100		
52	34.3	26.6	40.0



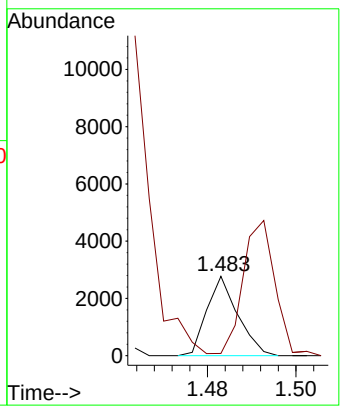


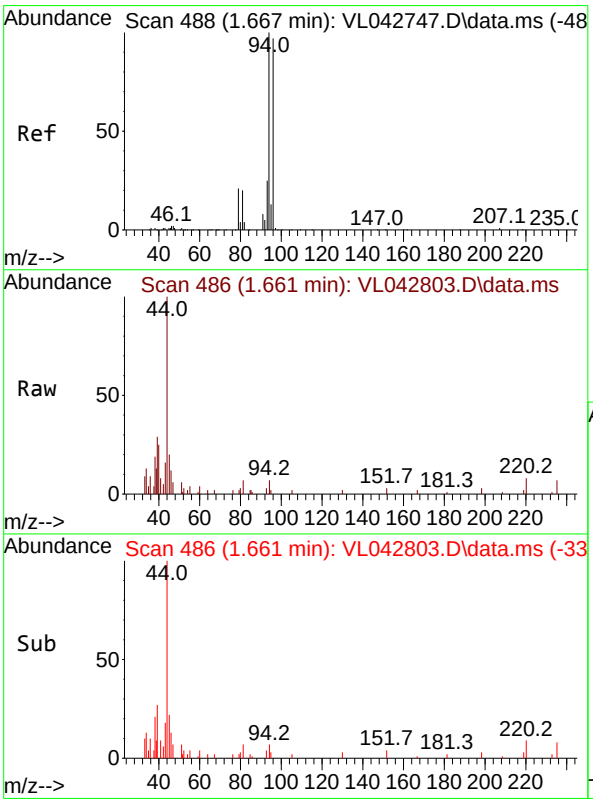
#5
Vinyl Chloride
Concen: 0.155 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.097 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 62 Resp: 1347

Ion	Ratio	Lower	Upper
62	100		
64	0.0	24.5	36.7#

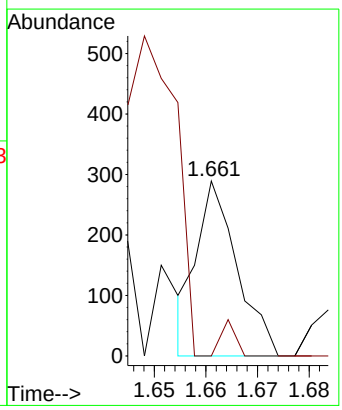


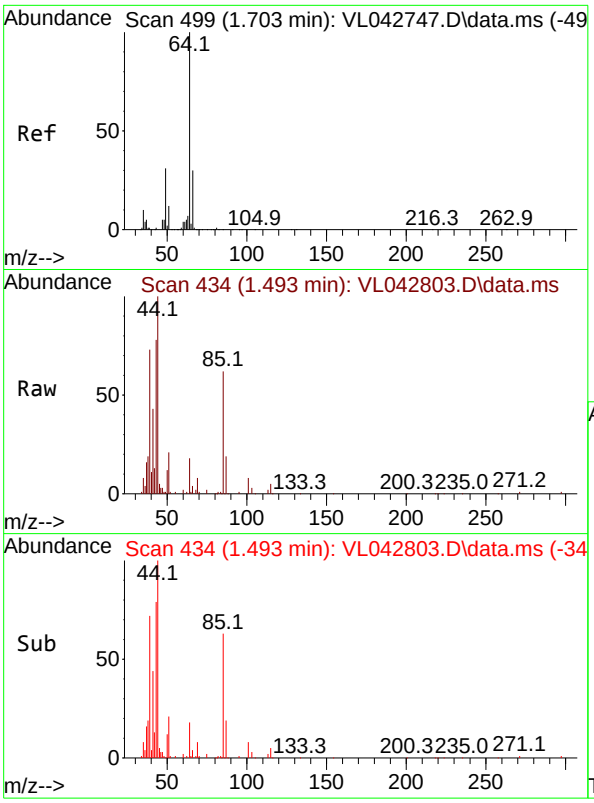


#6
Bromomethane
Concen: 0.047 ppbv
RT: 1.661 min Scan# 486
Delta R.T. -0.006 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 94 Resp: 157

Ion	Ratio	Lower	Upper
94	100		
96	0.0	77.6	116.4#



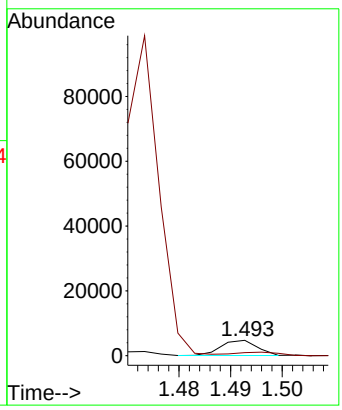


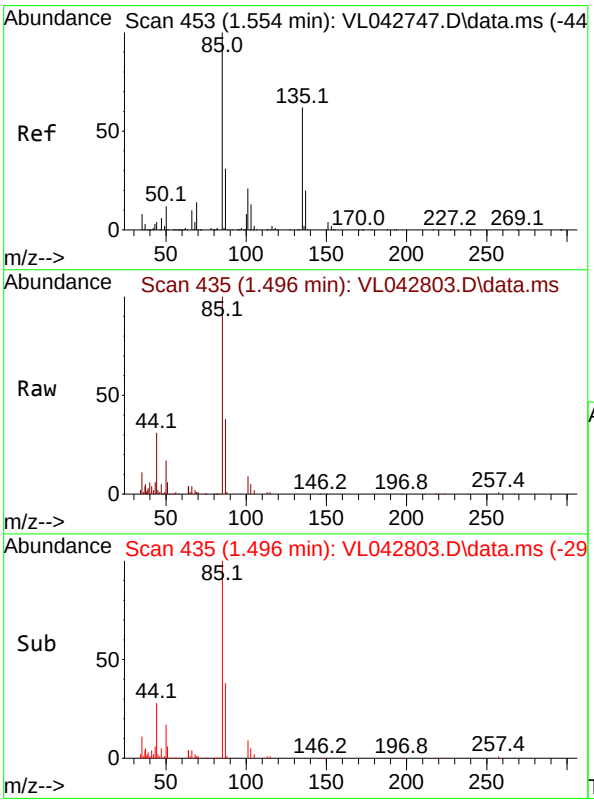
#7
Chloroethane
Concen: 0.673 ppbv
RT: 1.493 min Scan# 4
Delta R.T. -0.210 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 64 Resp: 2266

Ion	Ratio	Lower	Upper
64	100		
66	19.6	24.1	36.1#

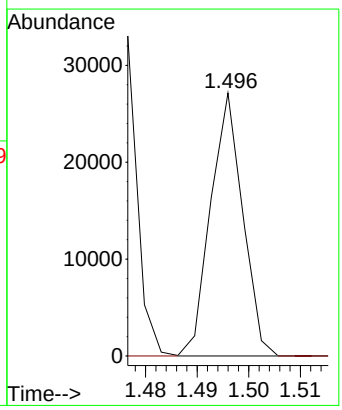


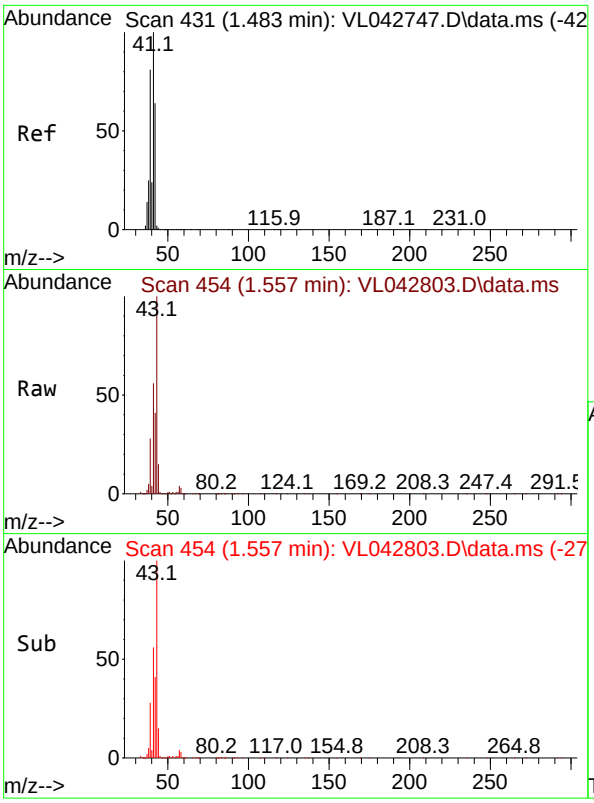


#8
Dichlorotetrafluoroethane
Concen: 0.654 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.058 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 85 Resp: 11720

Ion	Ratio	Lower	Upper
85	100		
135	2.0	50.6	76.0#



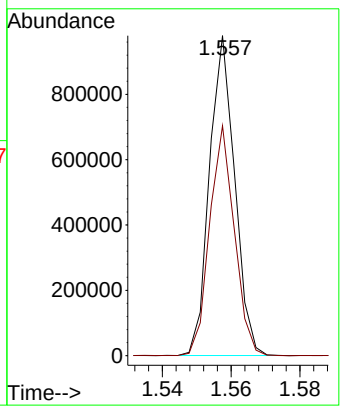


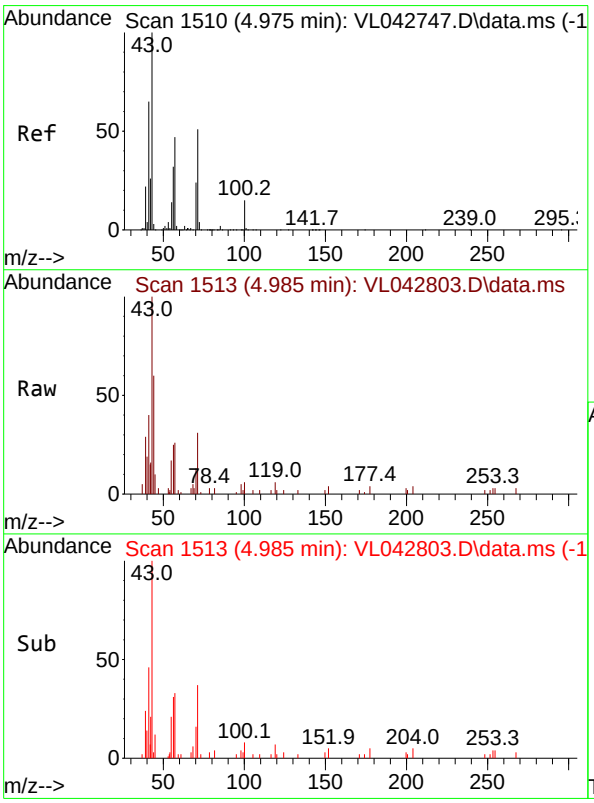
#9
Propene
Concen: 48.376 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.075 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 41 Resp: 499035

Ion	Ratio	Lower	Upper
41	100		
42	70.6	53.2	79.8

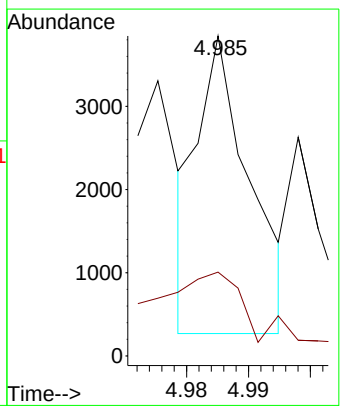


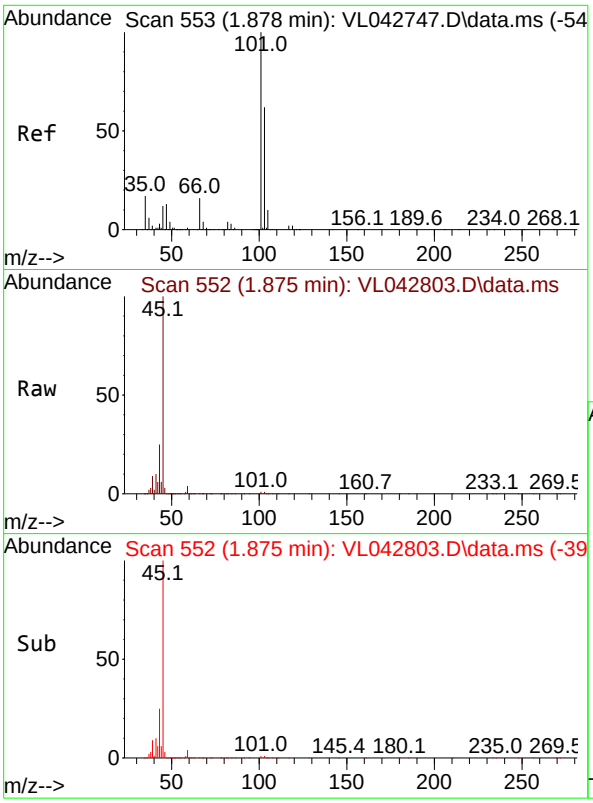


#10
Heptane
Concen: 0.075 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.010 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 43 Resp: 2081

Ion	Ratio	Lower	Upper
43	100		
57	124.1	39.9	59.9#



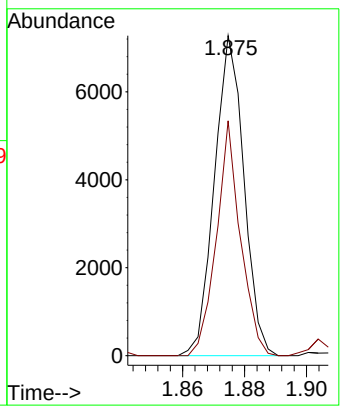


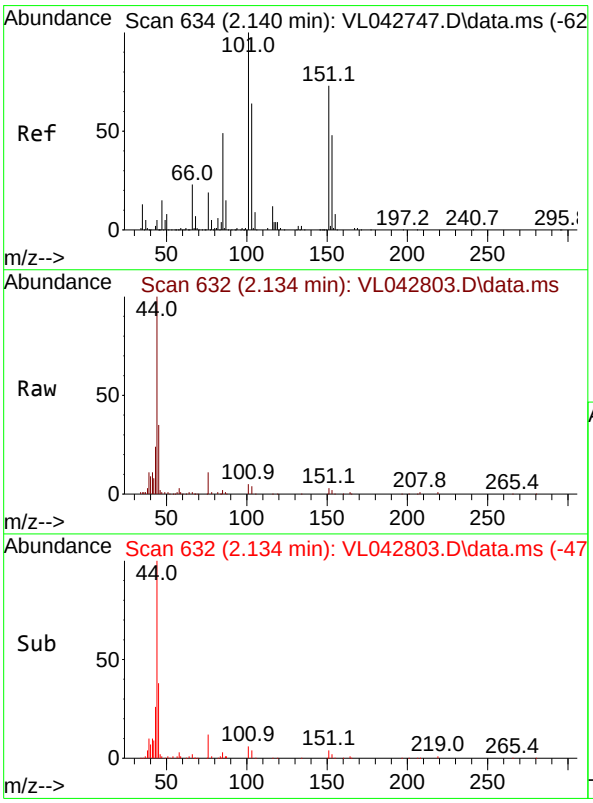
#11
Trichlorofluoromethane
Concen: 0.214 ppbv
RT: 1.875 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion:101 Resp: 4804

Ion	Ratio	Lower	Upper
101	100		
103	73.4	49.6	74.4

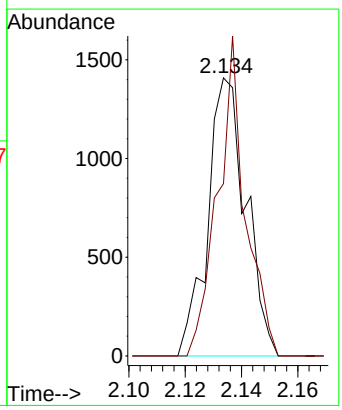


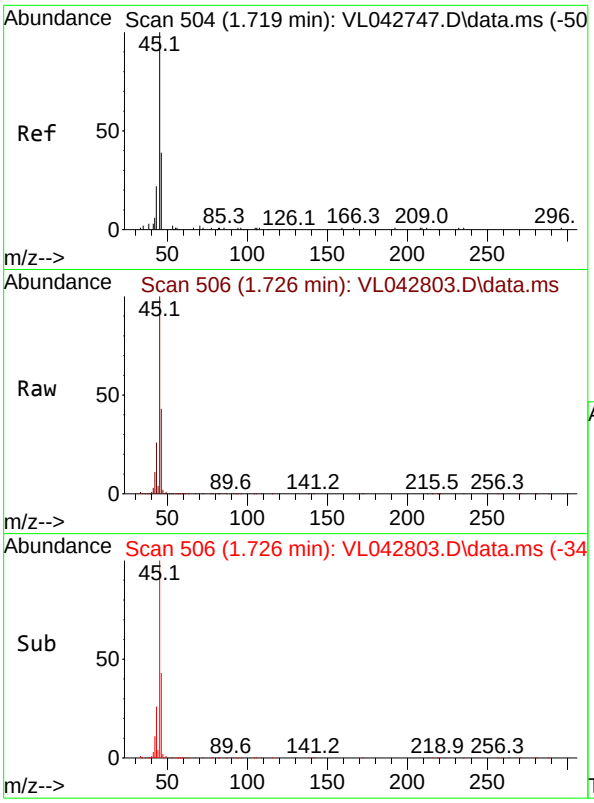


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.078 ppbv
RT: 2.134 min Scan# 632
Delta R.T. -0.006 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:101 Resp: 1324

Ion	Ratio	Lower	Upper
101	100		
151	82.7	60.5	90.7



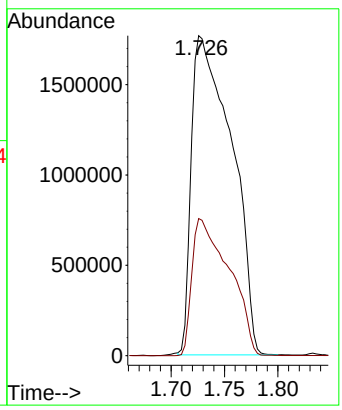


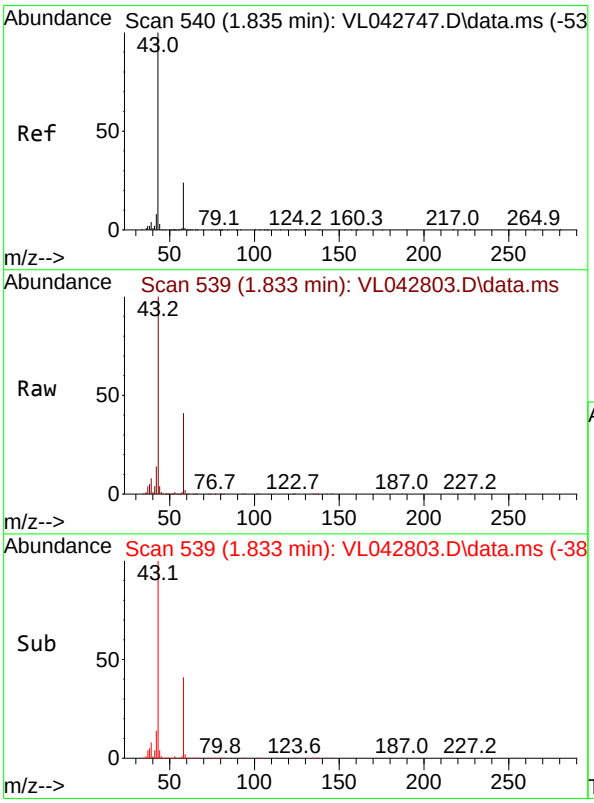
#13
Ethanol
Concen: 6156.946 ppbv
RT: 1.726 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 45 Resp: 4625427

Ion	Ratio	Lower	Upper
45	100		
46	40.0	17.8	71.4

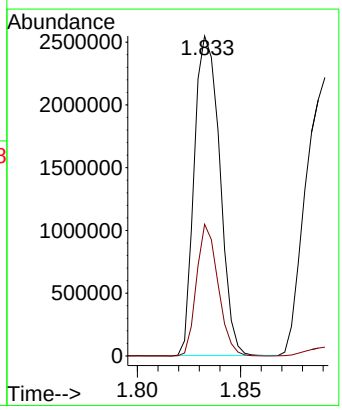


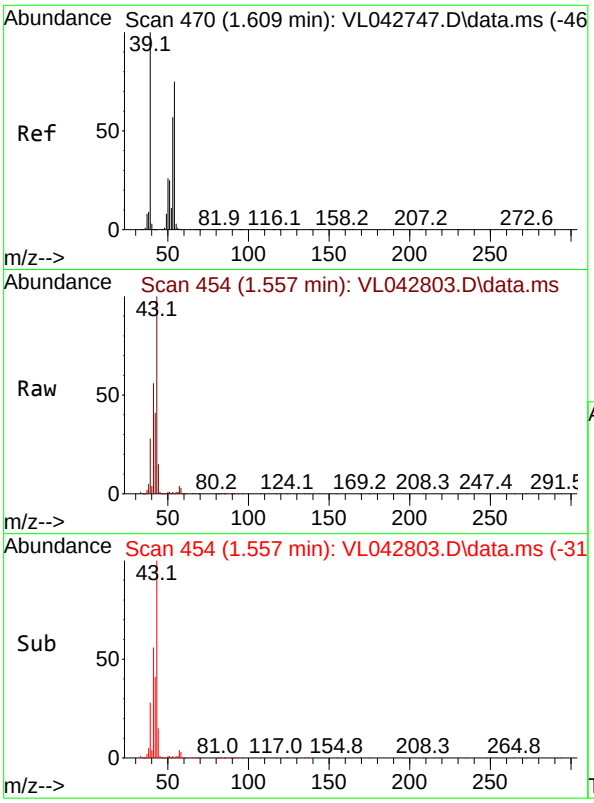


#15
Acetone
Concen: 95.974 ppbv
RT: 1.833 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 43 Resp: 2183939

Ion	Ratio	Lower	Upper
43	100		
58	34.9	19.8	29.8#



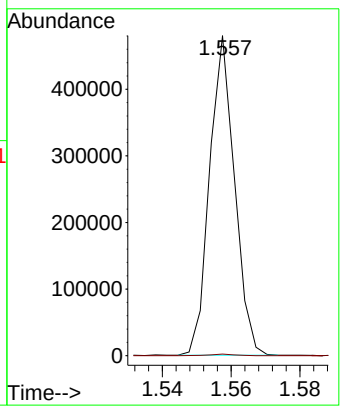


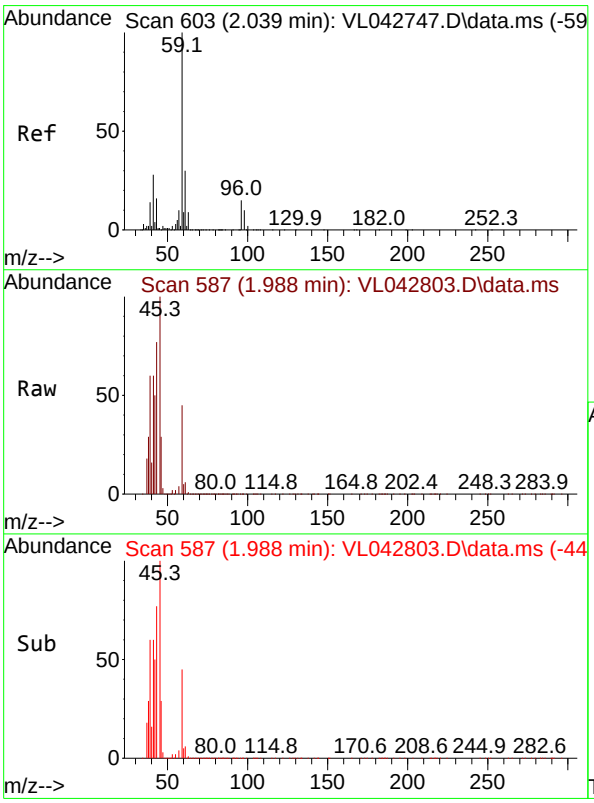
#16
1,3-Butadiene
Concen: 24.968 ppbv
RT: 1.557 min Scan# 4
Delta R.T. -0.051 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 39 Resp: 242347

Ion	Ratio	Lower	Upper
39	100		
54	0.5	54.5	81.7#

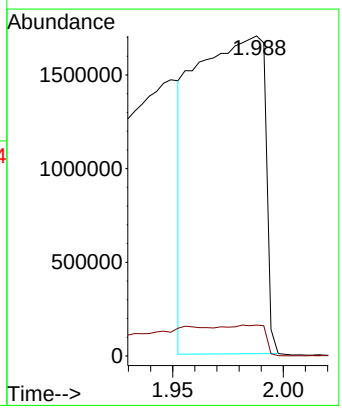


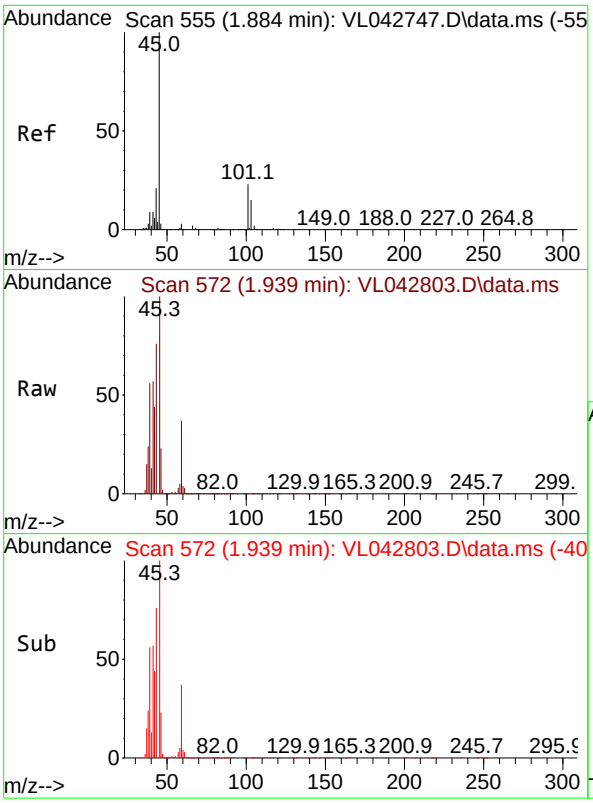


#17
tert-Butyl alcohol
Concen: 183.683 ppbv
RT: 1.988 min Scan# 587
Delta R.T. -0.051 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 59 Resp: 3769753

Ion	Ratio	Lower	Upper
59	100		
57	20.5	8.3	12.5#



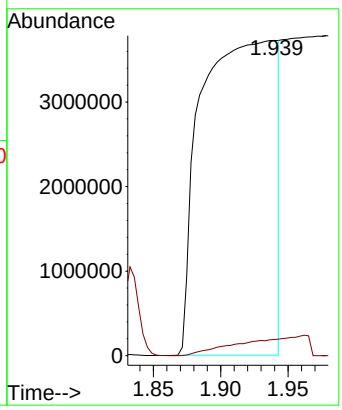


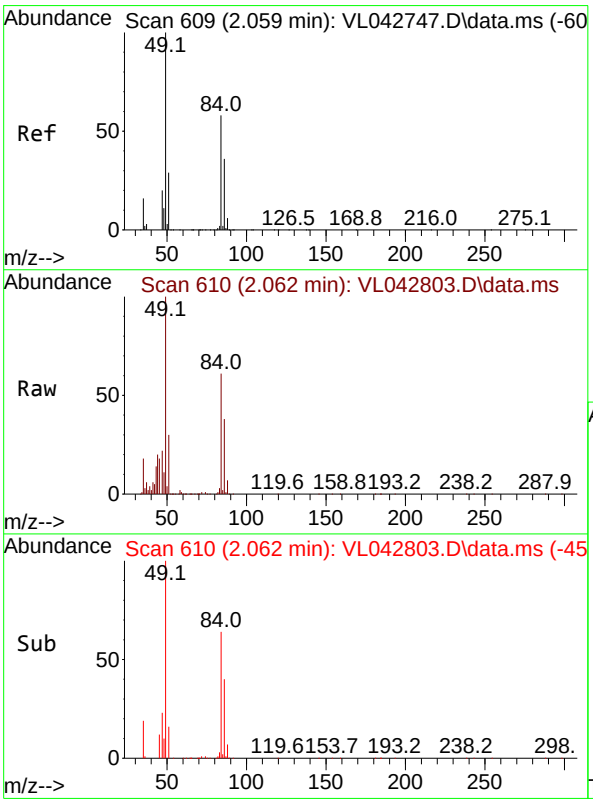
#19
Isopropyl Alcohol
Concen: 1183.864 ppbv
RT: 1.939 min Scan# 5
Delta R.T. 0.055 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 45 Resp:14315907

Ion	Ratio	Lower	Upper
45	100		
58	5.7	30.0	45.0#

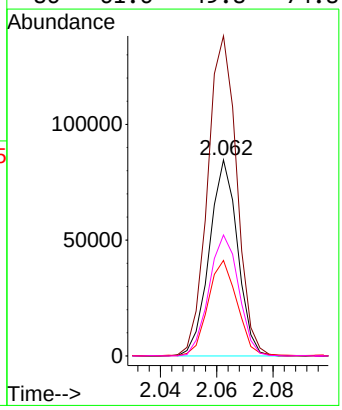


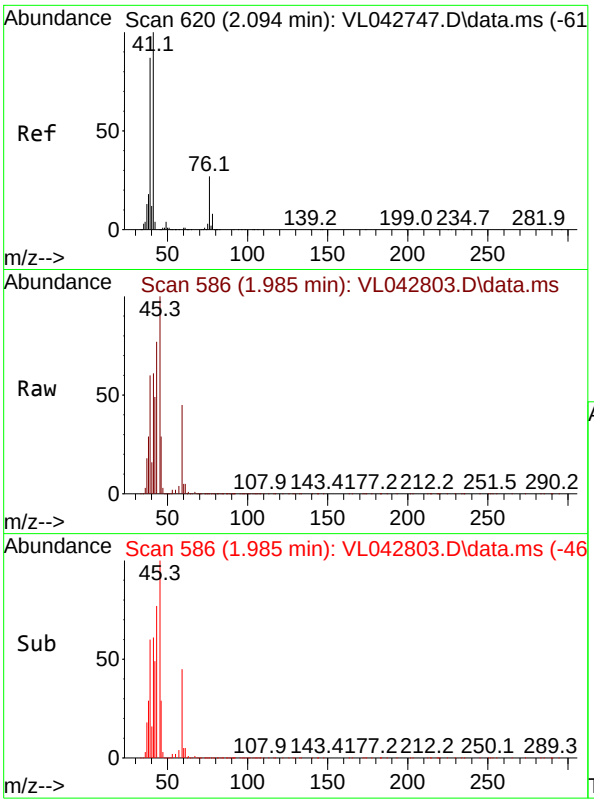


#20
Methylene Chloride
Concen: 8.214 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 84 Resp: 58902

Ion	Ratio	Lower	Upper
84	100		
49	162.9	138.6	208.0
51	48.6	40.6	61.0
86	61.6	49.8	74.8



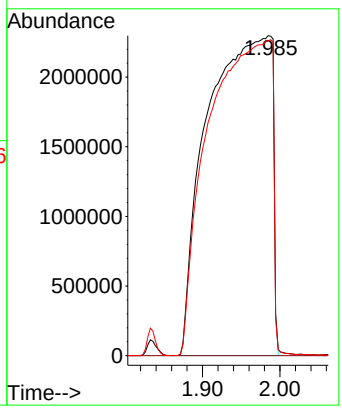


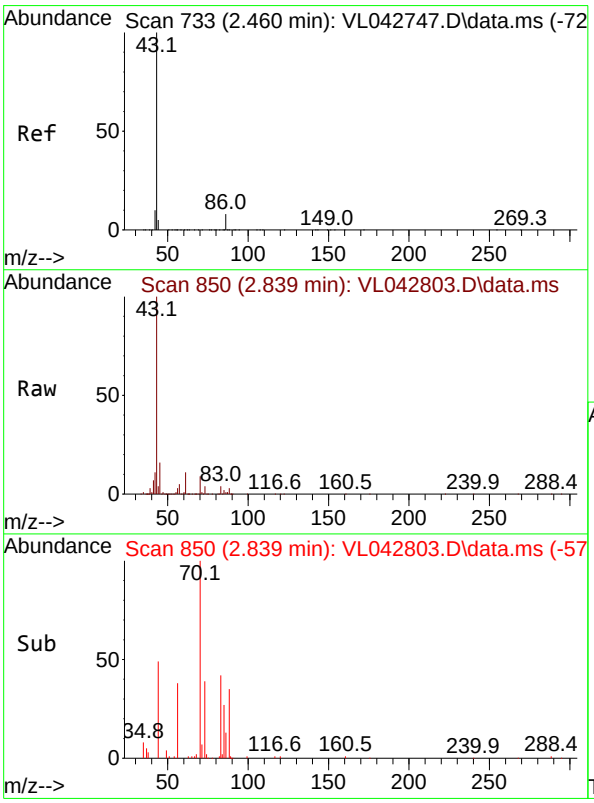
#21
Allyl Chloride
Concen: 944.233 ppbv
RT: 1.985 min Scan# 5
Delta R.T. -0.110 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 41 Resp:13242426

Ion	Ratio	Lower	Upper
41	100		
76	0.5	21.1	31.7#
39	97.2	68.3	102.5

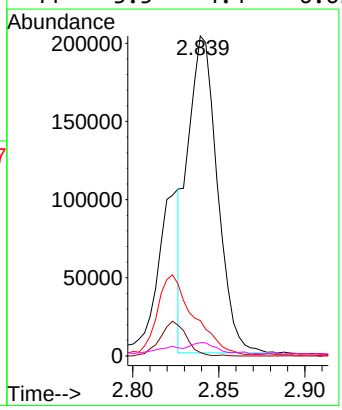


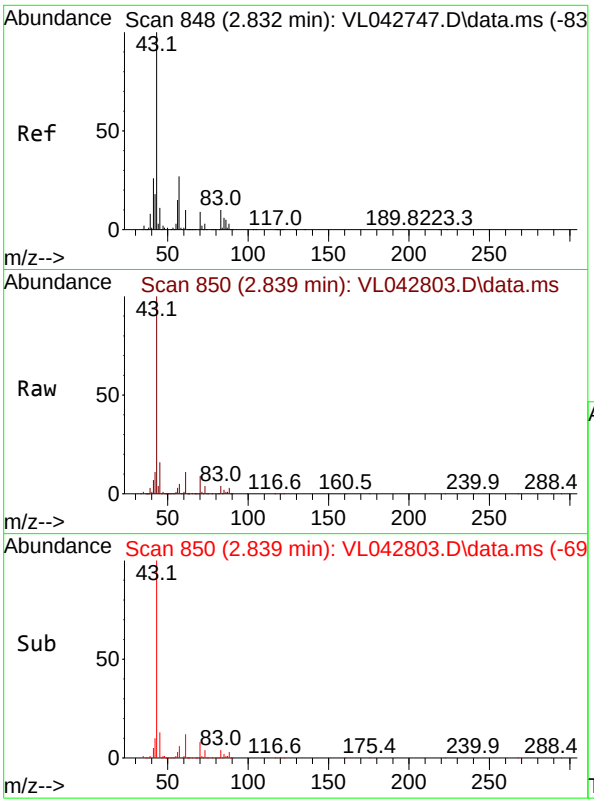


#23
Vinyl Acetate
Concen: 8.772 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.379 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 43 Resp: 241999

Ion	Ratio	Lower	Upper
43	100		
86	1.1	6.1	9.1#
42	10.7	7.8	11.8
44	3.5	4.4	6.6#



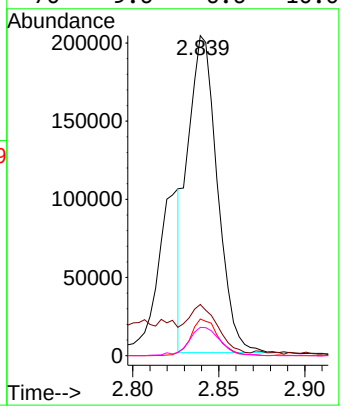


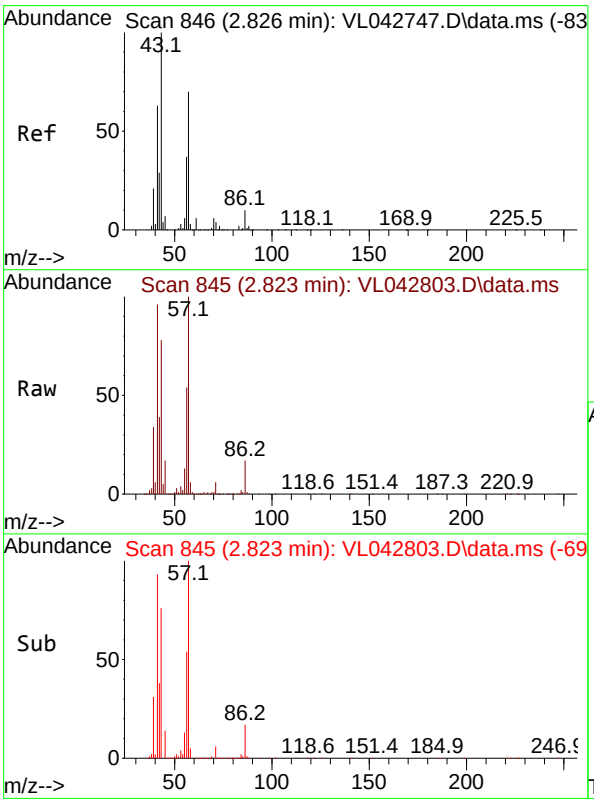
#25
Ethyl Acetate
Concen: 4.805 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 43 Resp: 241999

Ion	Ratio	Lower	Upper
43	100		
45	35.8	7.8	11.6#
61	10.9	6.7	10.1#
70	9.6	6.6	10.0

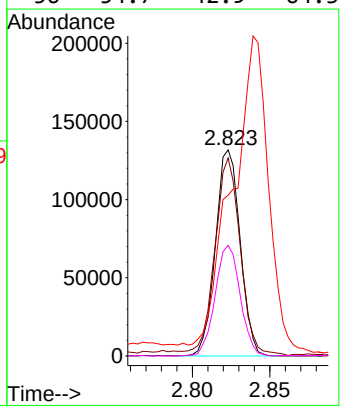


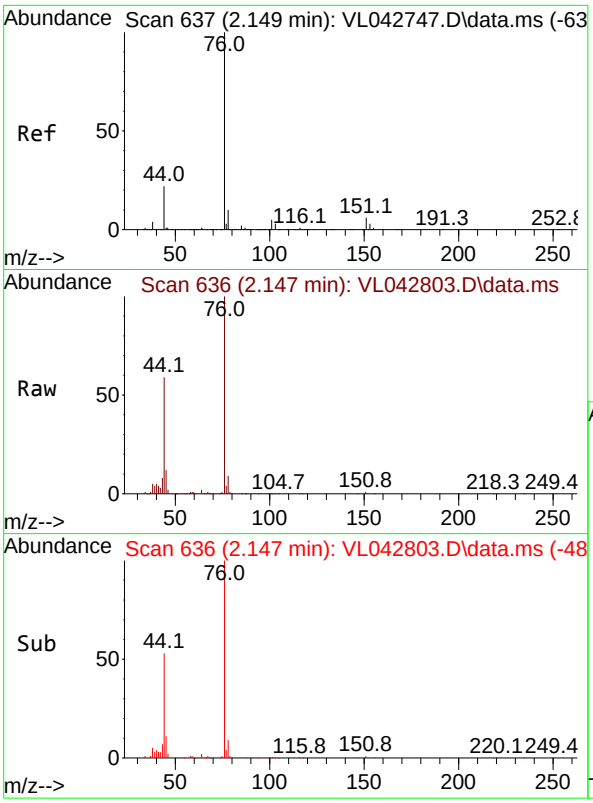


#26
Hexane
Concen: 6.600 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 57 Resp: 145822

Ion	Ratio	Lower	Upper
57	100		
41	99.8	75.4	113.2
43	237.0	185.0	277.6
56	54.7	42.9	64.3



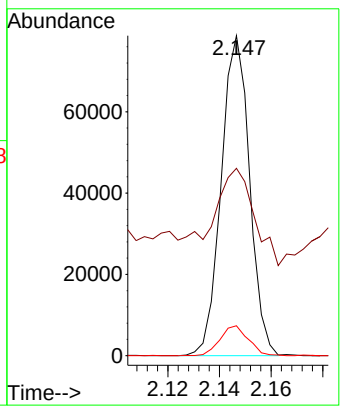


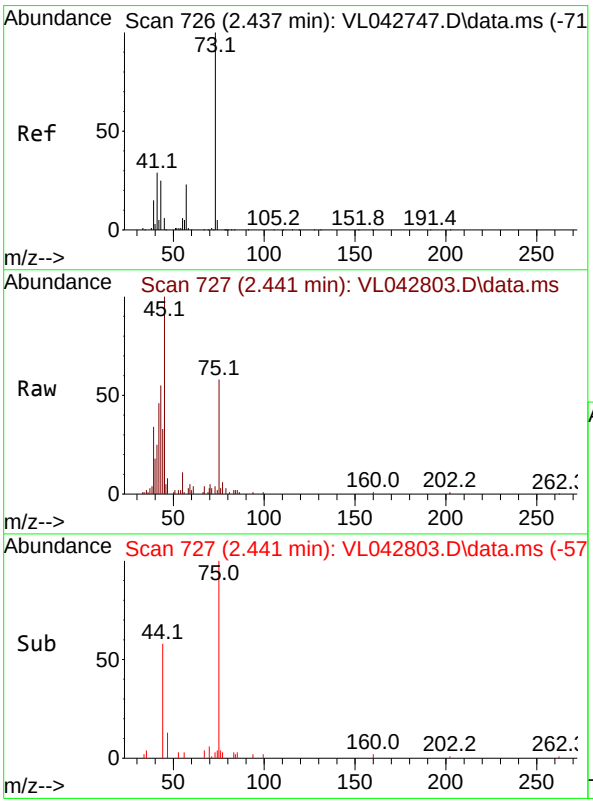
#27
Carbon Disulfide
Concen: 3.175 ppbv
RT: 2.147 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 76 Resp: 60059

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.6	9.9	14.9#

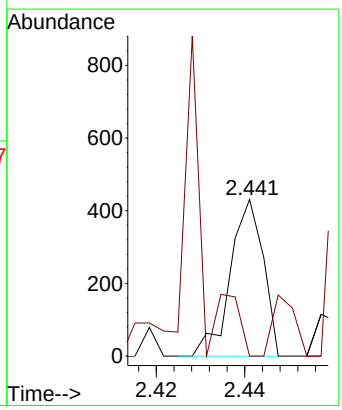


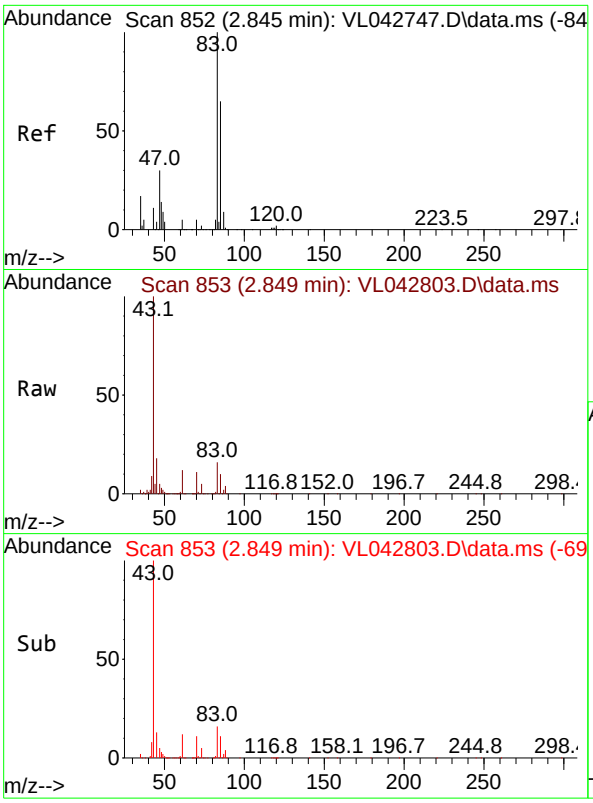


#28
Methyl tert-Butyl Ether
Concen: 0.021 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 73 Resp: 223

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.8	29.8#



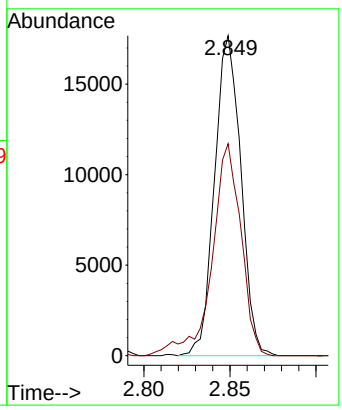


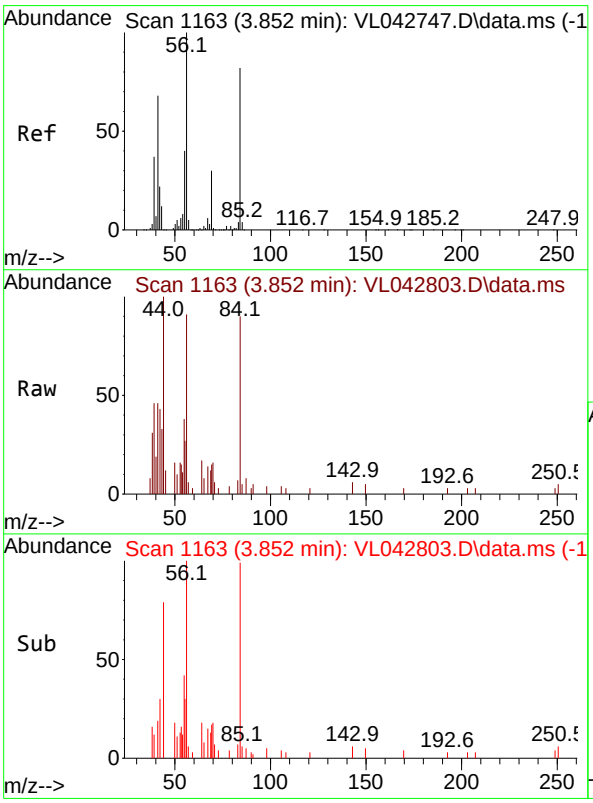
#29
Chloroform
Concen: 0.551 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 83 Resp: 18805

Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.2	78.2

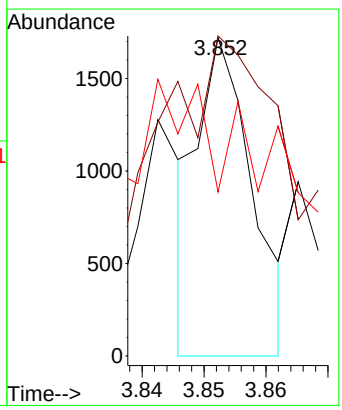


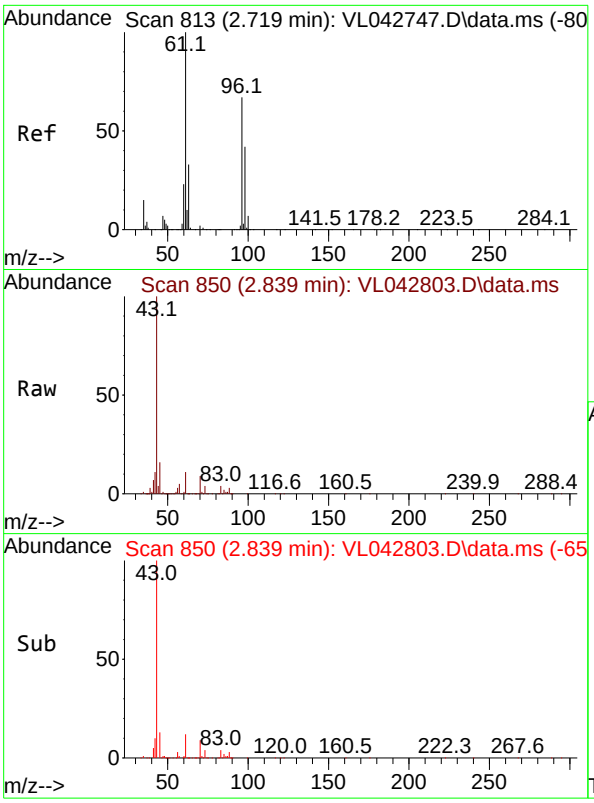


#30
Cyclohexane
Concen: 0.056 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 84 Resp: 1053

Ion	Ratio	Lower	Upper
84	100		
56	298.7	97.5	146.3#
41	0.0	67.2	100.8#



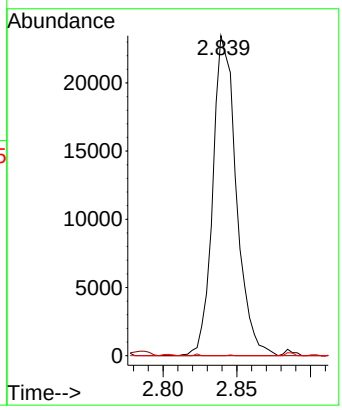


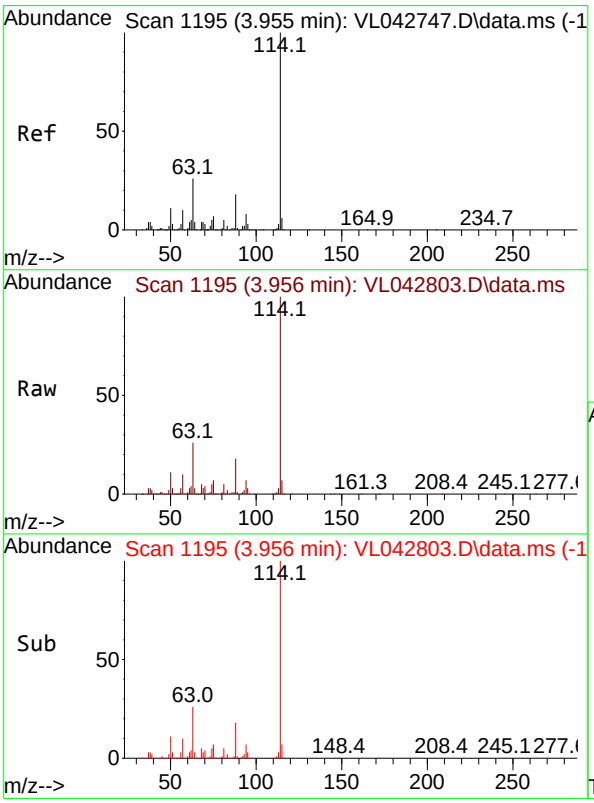
#31
cis-1,2-Dichloroethene
Concen: 1.151 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.120 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 61 Resp: 26136

Ion	Ratio	Lower	Upper
61	100		
96	0.0	53.5	80.3#
98	0.0	33.6	50.4#

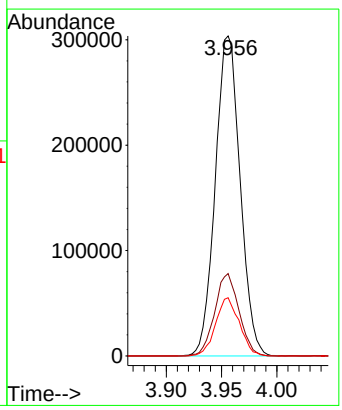


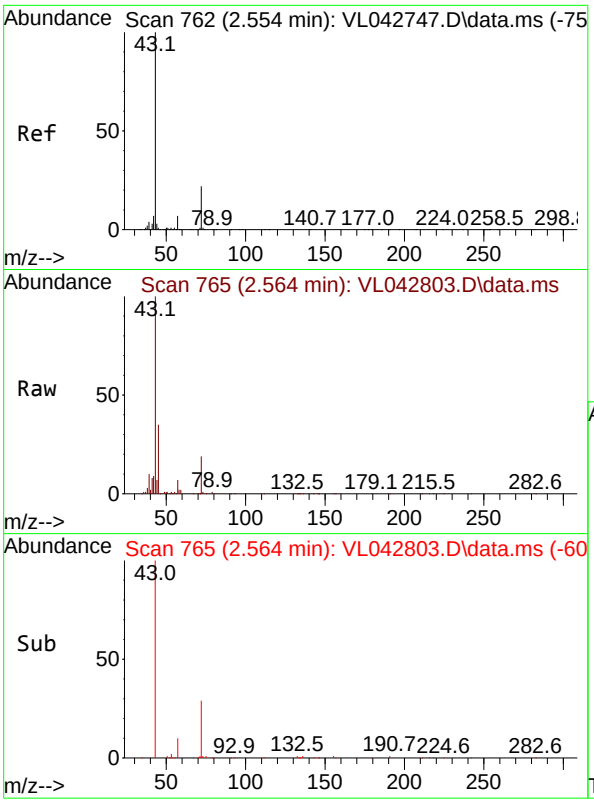


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:114 Resp: 474917

Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.5	30.7
88	17.4	14.0	21.0



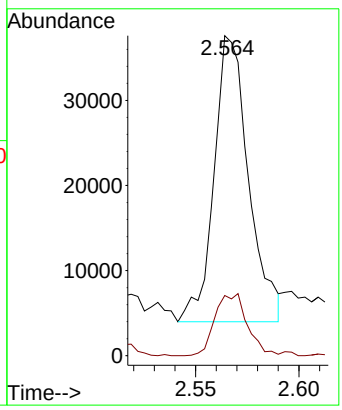


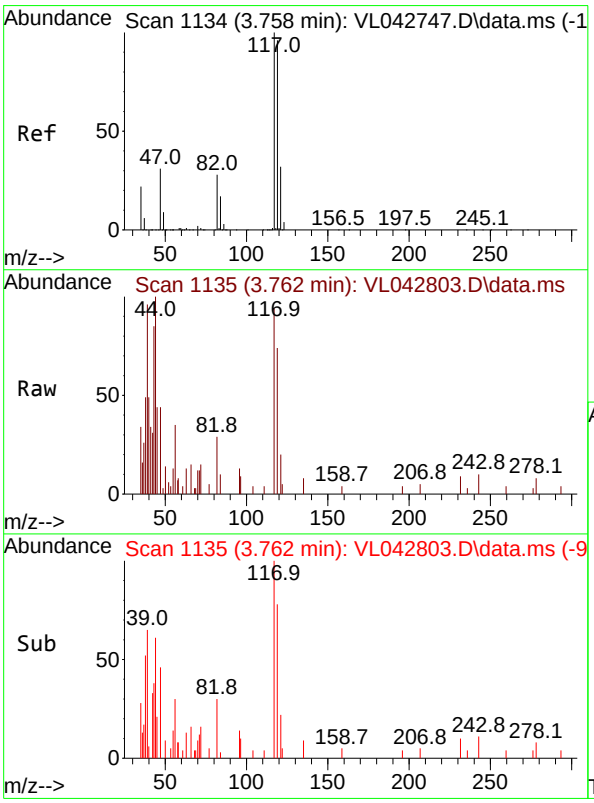
#34
2-Butanone
Concen: 1.163 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 43 Resp: 39111

Ion	Ratio	Lower	Upper
43	100		
72	21.1	17.4	26.0

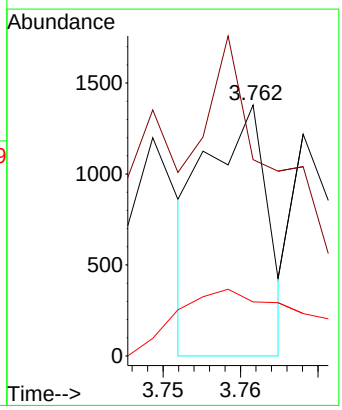


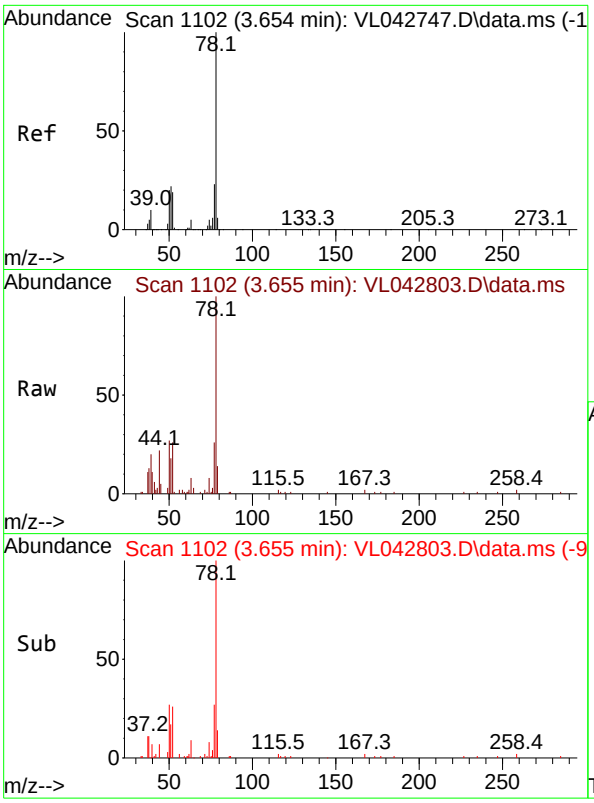


#35
Carbon Tetrachloride
Concen: 0.022 ppbv
RT: 3.762 min Scan# 1135
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:117 Resp: 773

Ion	Ratio	Lower	Upper
117	100		
119	7.3	77.1	115.7#
121	4.6	25.5	38.3#



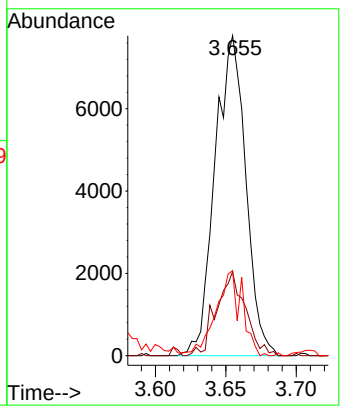


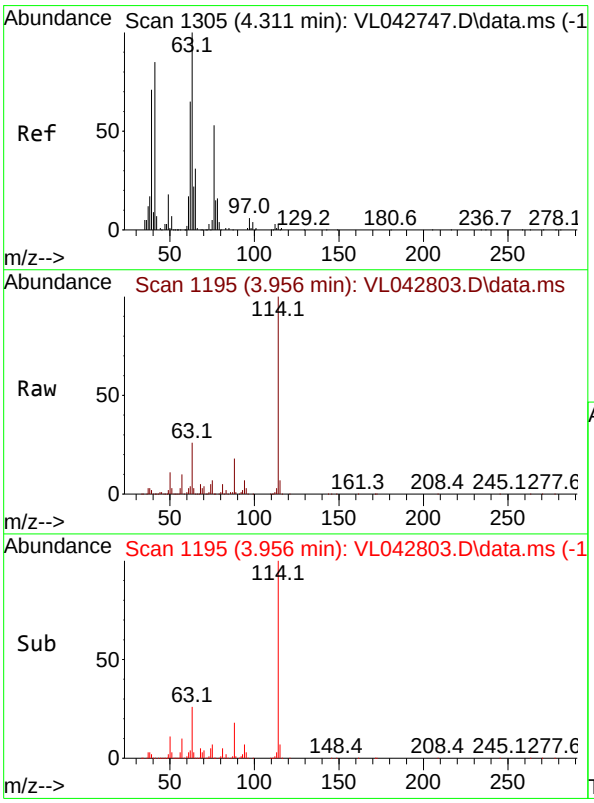
#36
Benzene
Concen: 0.262 ppbv
RT: 3.655 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 78 Resp: 11806

Ion	Ratio	Lower	Upper
78	100		
77	26.3	18.5	27.7
50	25.7	16.2	24.2#

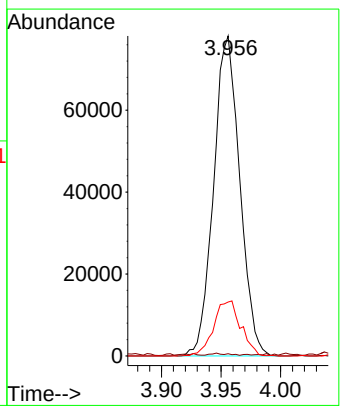


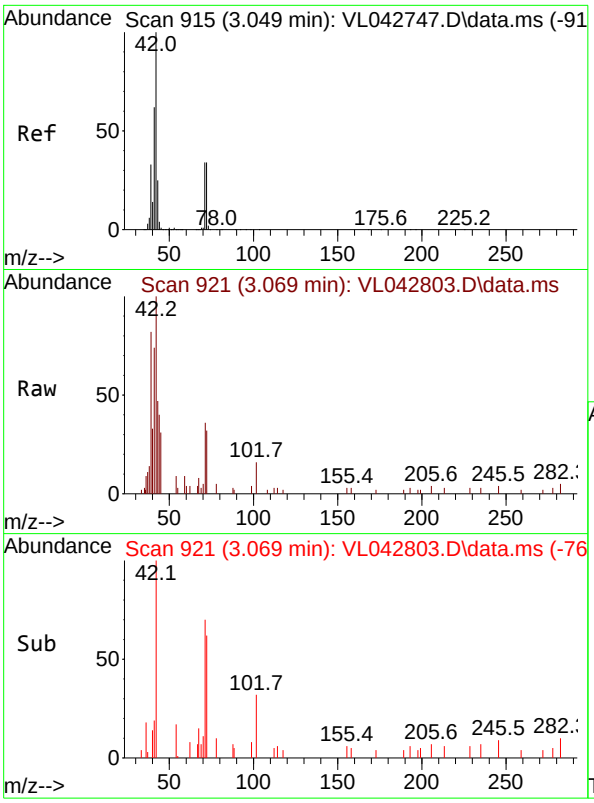


#39
1,2-Dichloropropane
Concen: 7.178 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 63 Resp: 119264

Ion	Ratio	Lower	Upper
63	100		
41	0.4	68.2	102.4#
62	16.8	52.0	78.0#



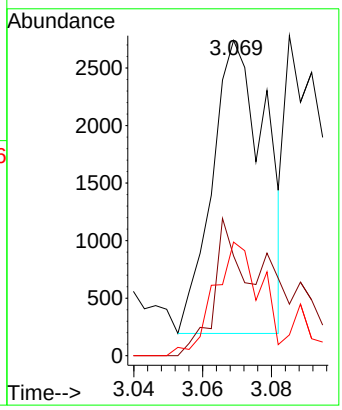


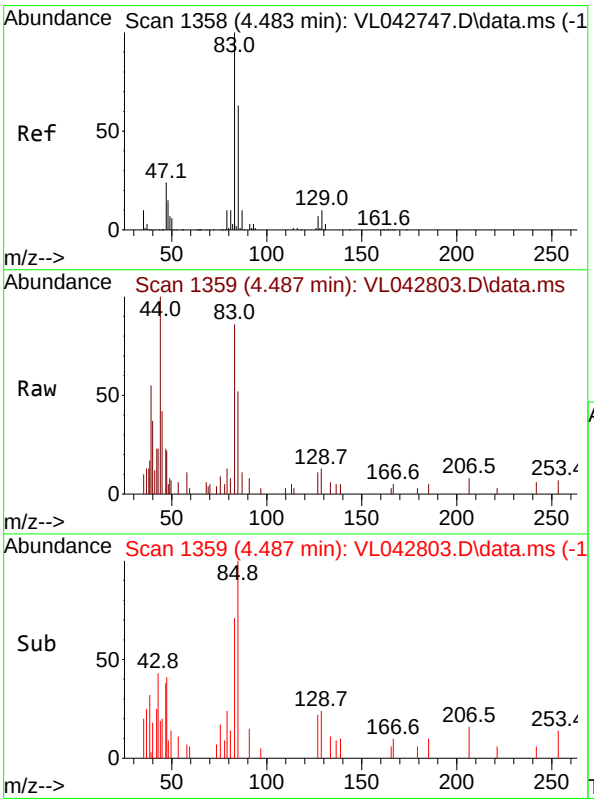
#41
Tetrahydrofuran
Concen: 0.161 ppbv
RT: 3.069 min Scan# 9
Delta R.T. 0.020 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 42 Resp: 2749

Ion	Ratio	Lower	Upper
42	100		
72	58.6	30.9	46.3#
71	43.5	28.6	43.0#

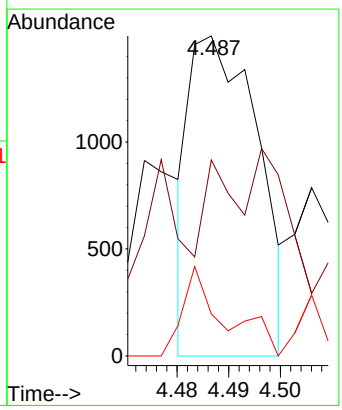


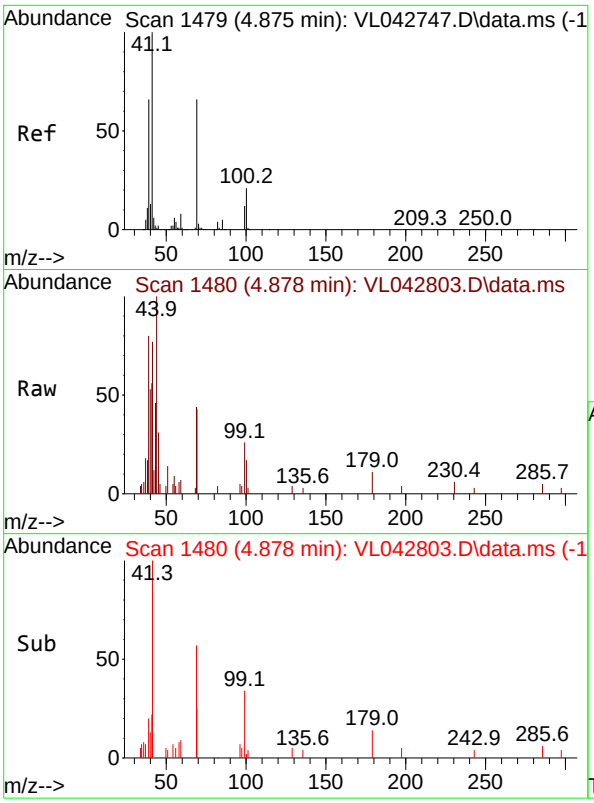


#42
Bromodichloromethane
Concen: 0.039 ppbv
RT: 4.487 min Scan# 1359
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 83 Resp: 1371

Ion	Ratio	Lower	Upper
83	100		
85	37.6	50.2	75.4#
127	20.1	5.4	8.2#



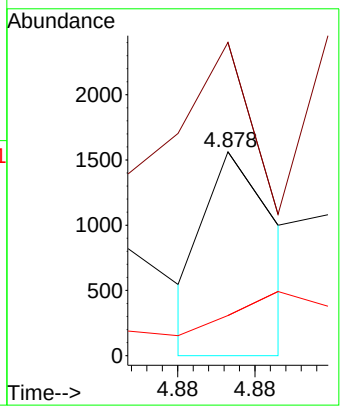


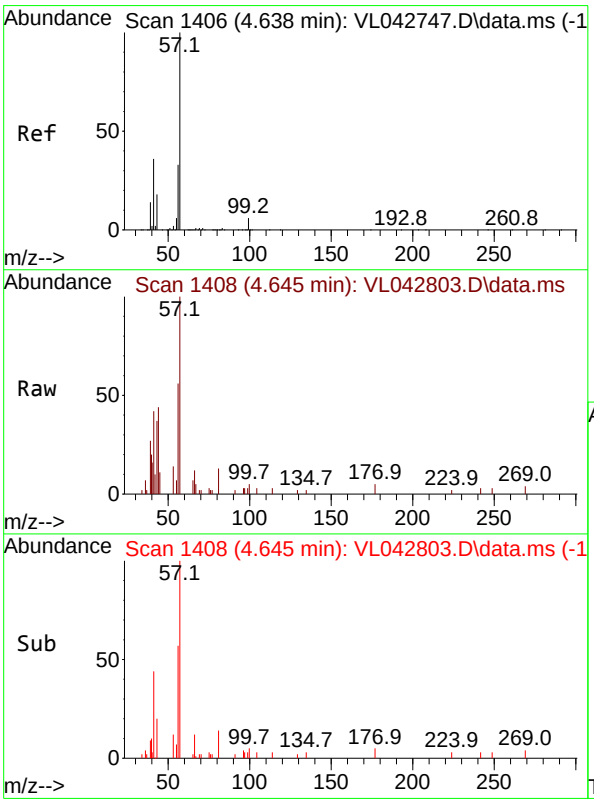
#43
Methyl Methacrylate
Concen: 0.031 ppbv
RT: 4.878 min Scan# 14
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 69 Resp: 498

Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	0.0	28.6	42.8#

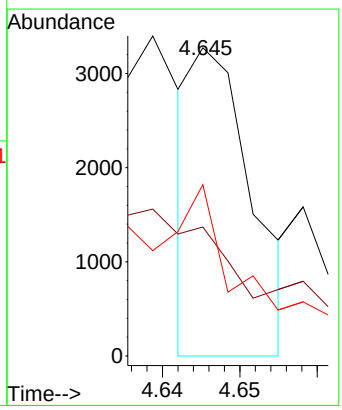


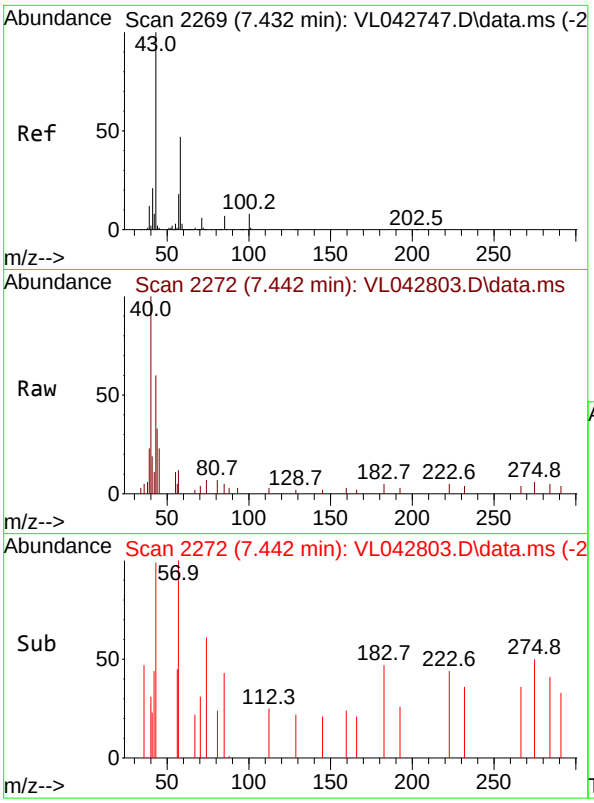


#44
2,2,4-Trimethylpentane
Concen: 0.024 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.007 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 57 Resp: 1752

Ion	Ratio	Lower	Upper
57	100		
41	232.2	28.3	42.5#
56	0.0	25.8	38.6#



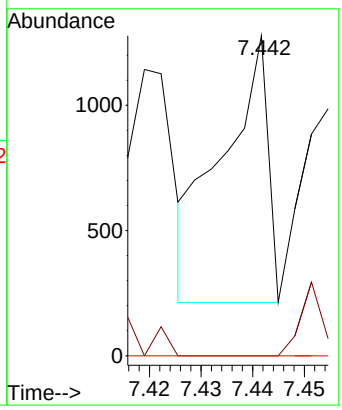


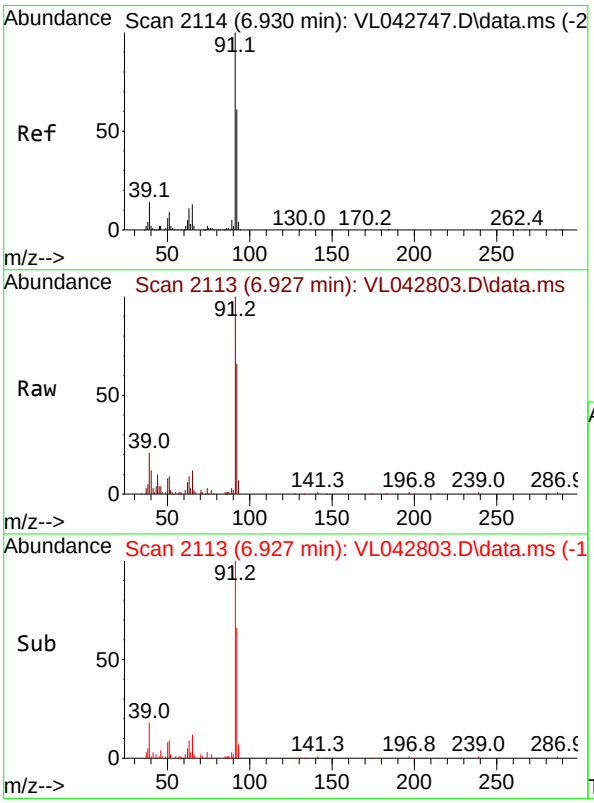
#51
2-Hexanone
Concen: 0.020 ppbv
RT: 7.442 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 43 Resp: 657

Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.0	57.0#
98	0.0	0.2	0.4#

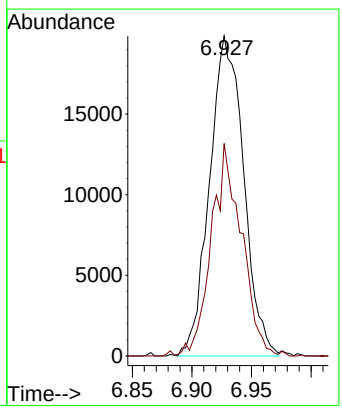


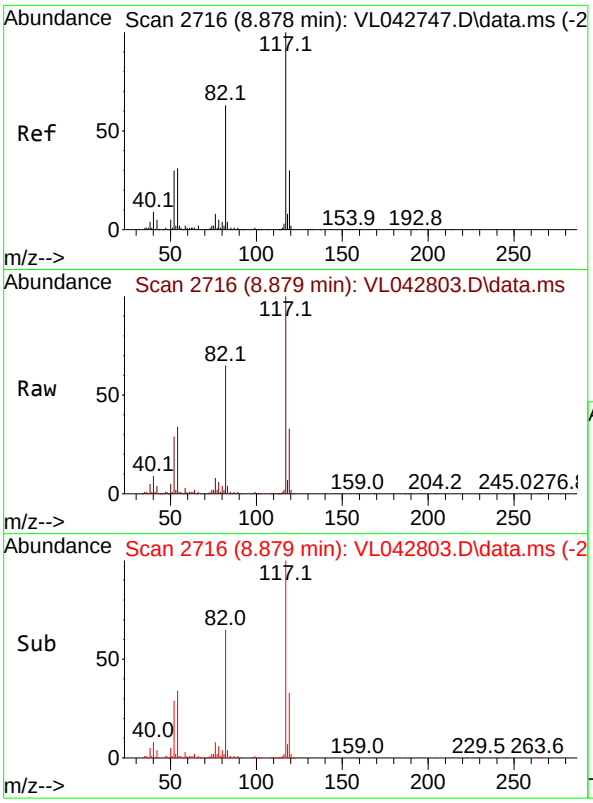


#53
Toluene
Concen: 0.816 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 91 Resp: 39418

Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.0	72.0



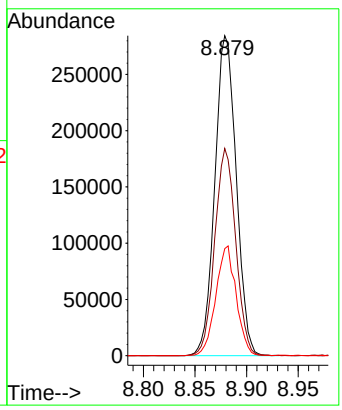


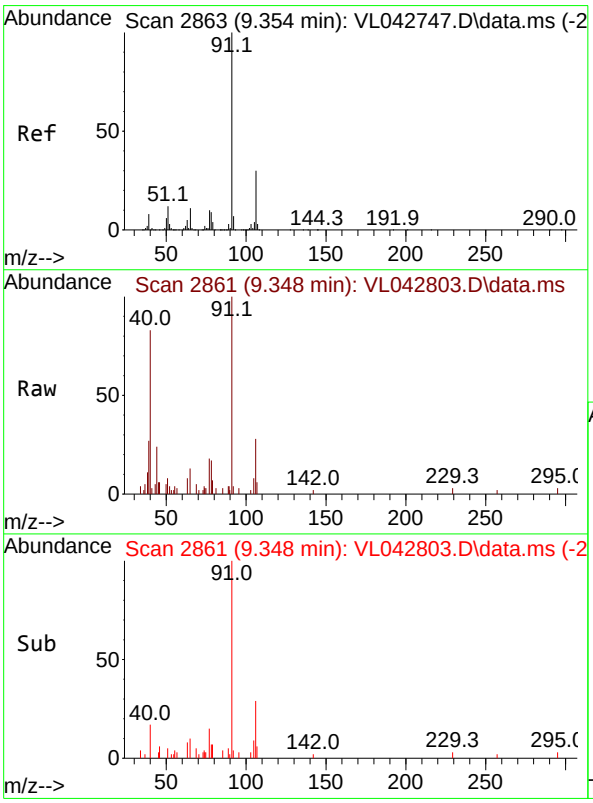
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion:117 Resp: 410663

Ion	Ratio	Lower	Upper
117	100		
82	63.4	53.3	79.9
119	32.8	25.8	38.6

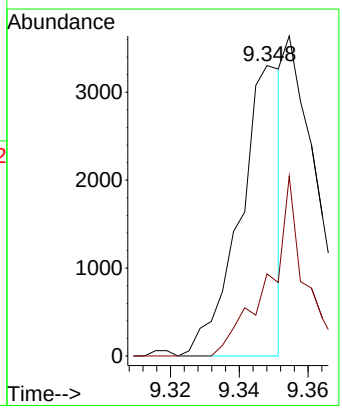


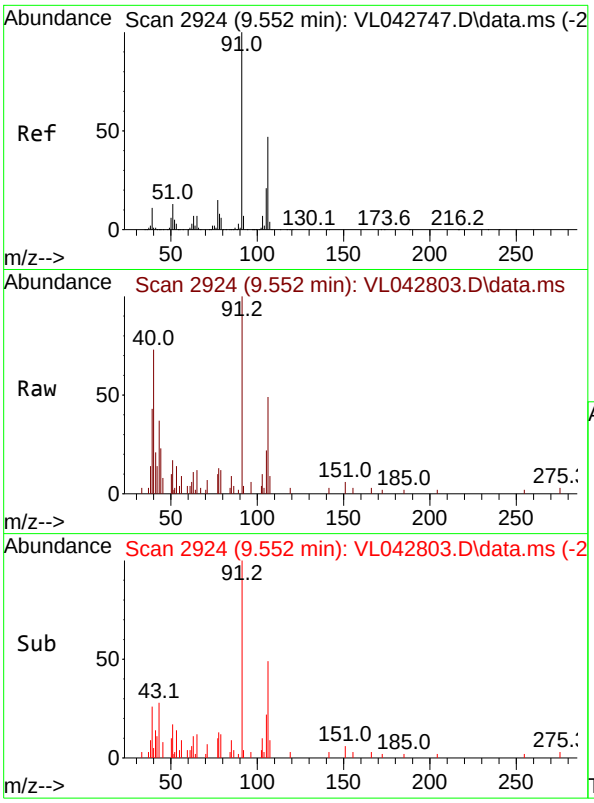


#58
Ethyl Benzene
Concen: 0.043 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 91 Resp: 2759

Ion	Ratio	Lower	Upper
91	100		
106	34.2	23.8	35.6



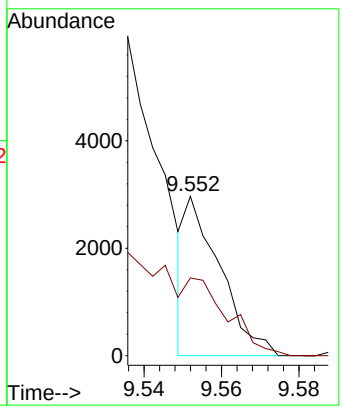


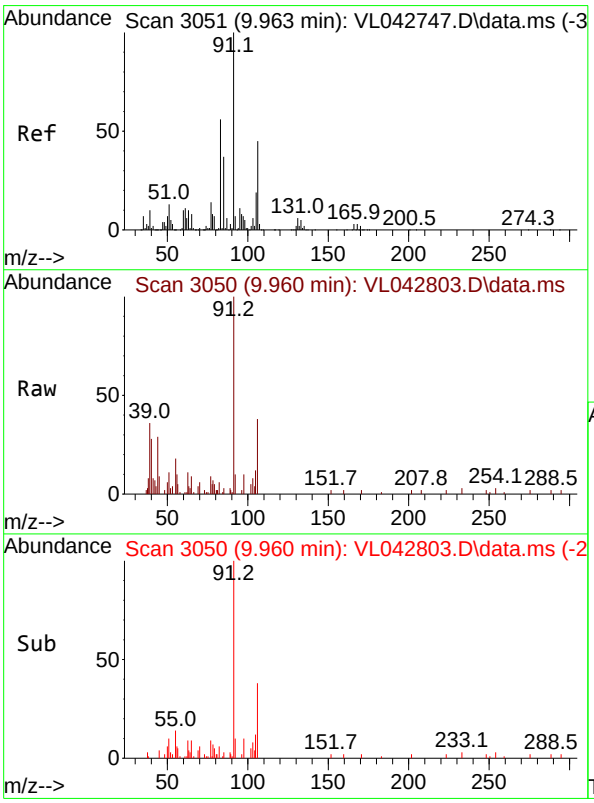
#59
m/p-Xylene
Concen: 0.036 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 91 Resp: 1861

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

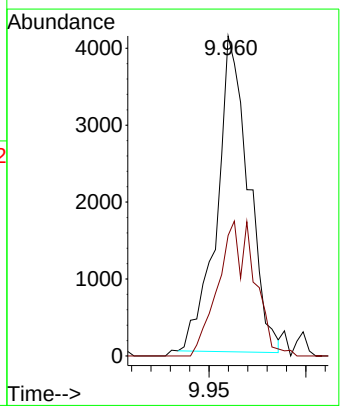


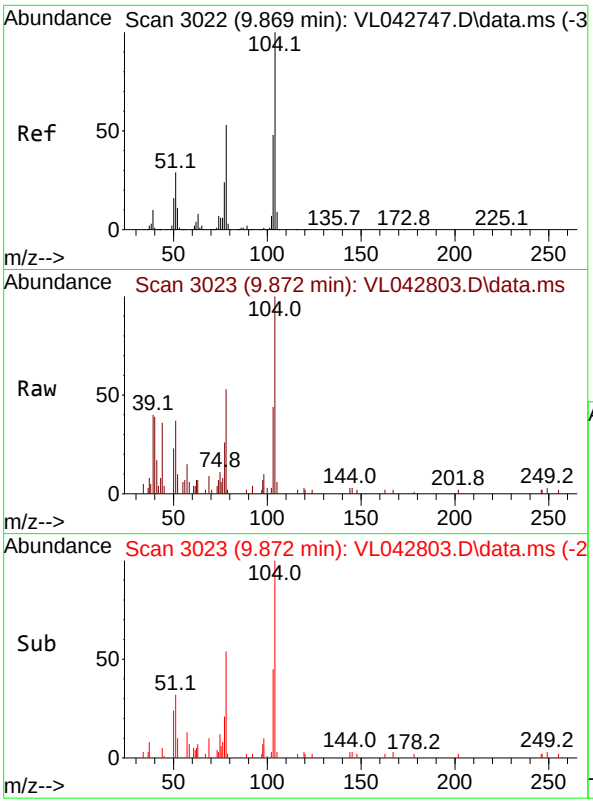


#60
o-Xylene
Concen: 0.090 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 91 Resp: 4662

Ion	Ratio	Lower	Upper
91	100		
106	49.0	22.0	66.0



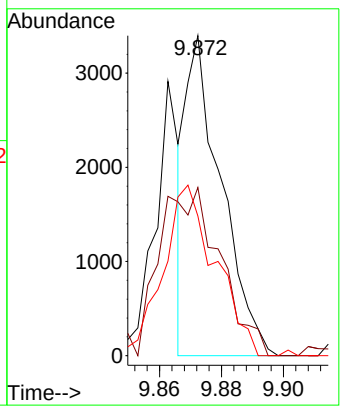


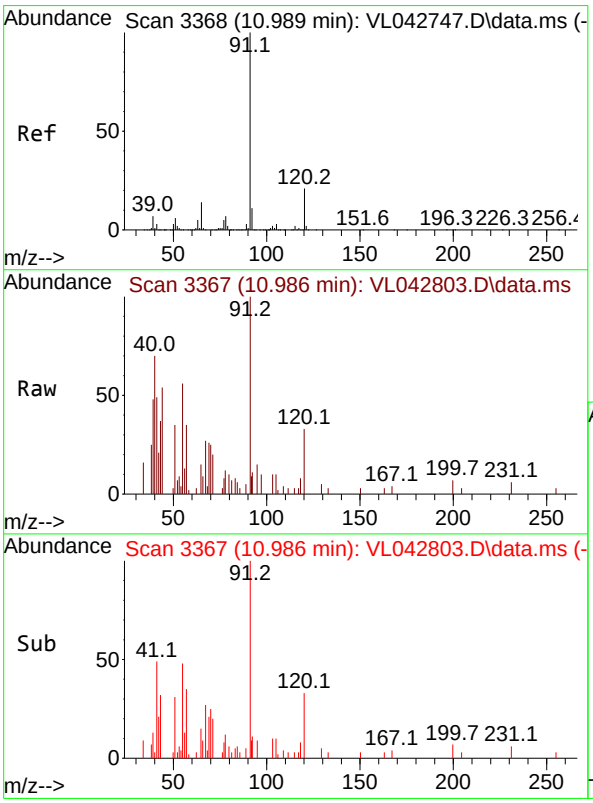
#61
Styrene
Concen: 0.124 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion:104 Resp: 2703

Ion	Ratio	Lower	Upper
104	100		
78	92.5	41.5	62.3#
103	78.9	37.5	56.3#

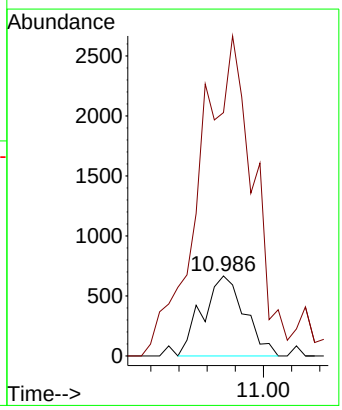


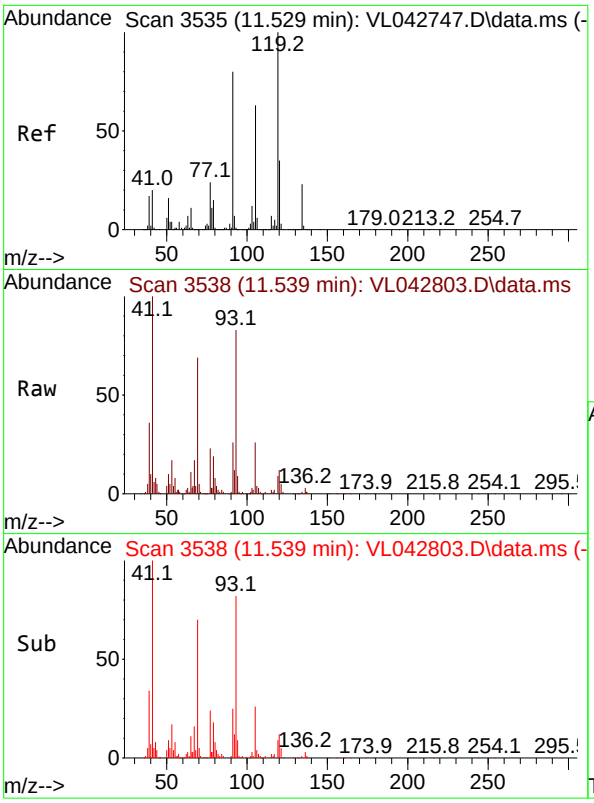


#64
n-propylbenzene
Concen: 0.035 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:120 Resp: 692

Ion	Ratio	Lower	Upper
120	100		
91	539.6	372.7	559.1



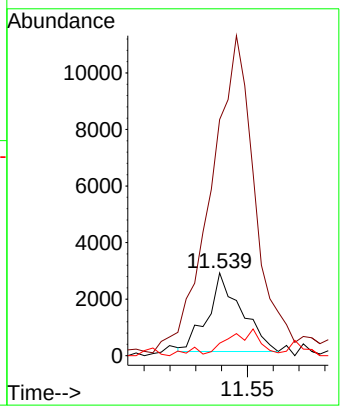


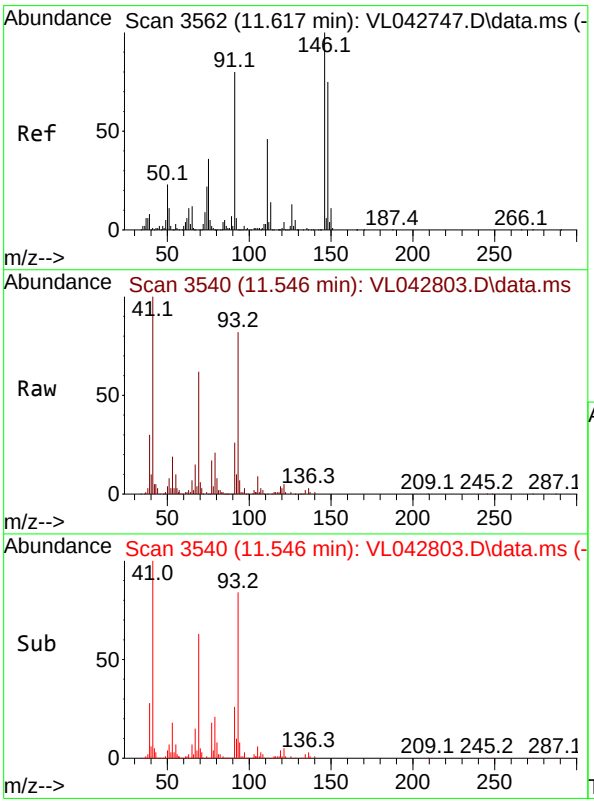
#65
tert-Butylbenzene
Concen: 0.037 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion:119 Resp: 2513

Ion	Ratio	Lower	Upper
119	100		
91	540.9	64.0	96.0#
134	50.8	17.3	25.9#

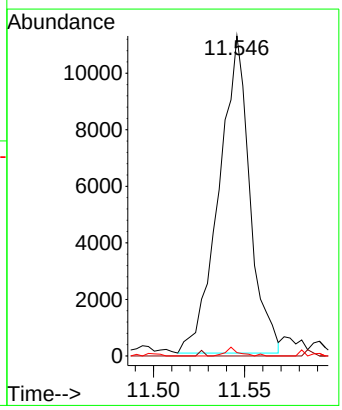


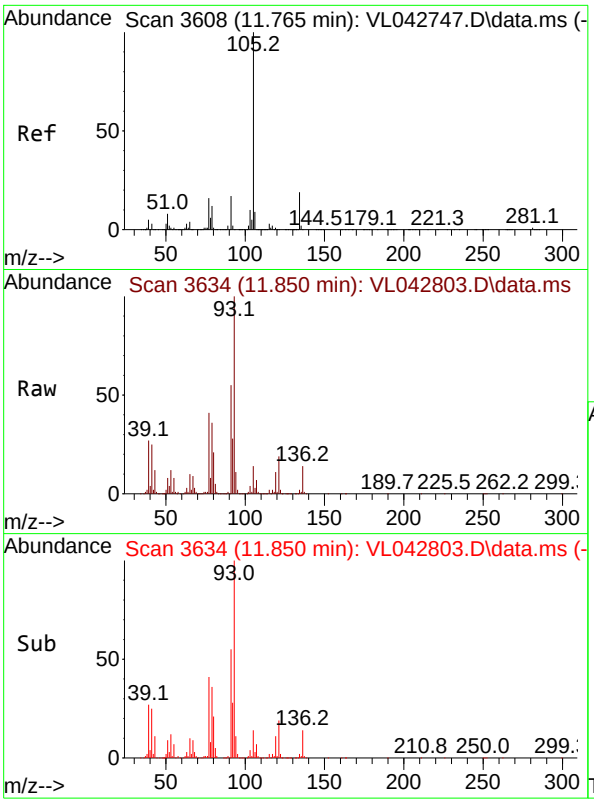


#66
Benzyl Chloride
Concen: 2.377 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. -0.071 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 91 Resp: 13242

Ion	Ratio	Lower	Upper
91	100		
126	0.3	14.4	21.6#
128	1.2	5.2	7.8#



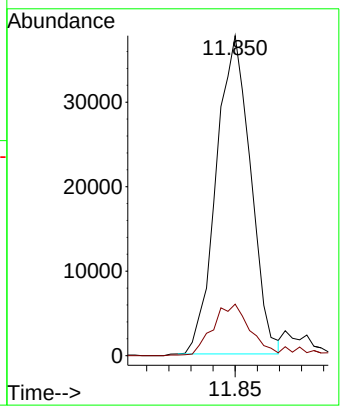


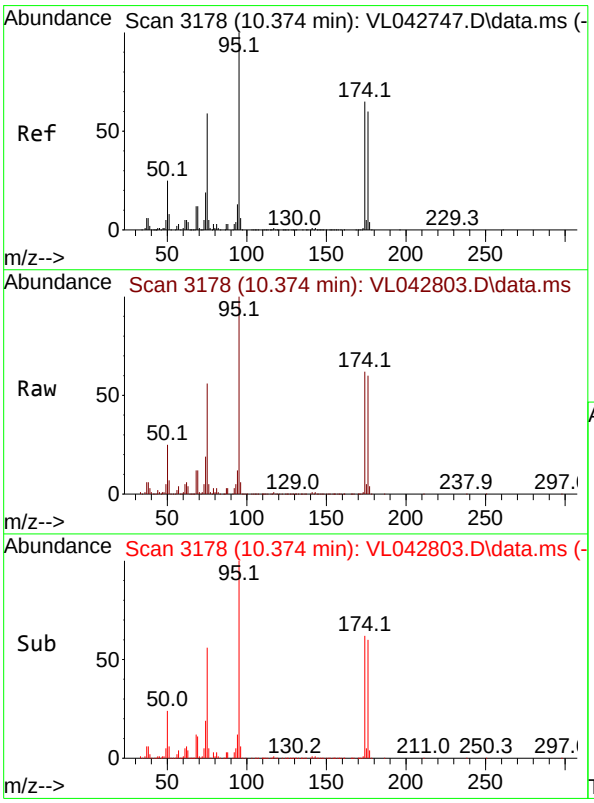
#67
sec-Butylbenzene
Concen: 0.422 ppbv
RT: 11.850 min Scan# 3
Delta R.T. 0.085 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion:105 Resp: 40708

Ion	Ratio	Lower	Upper
105	100		
134	19.7	15.5	23.3

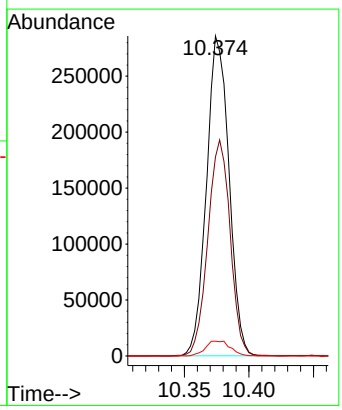


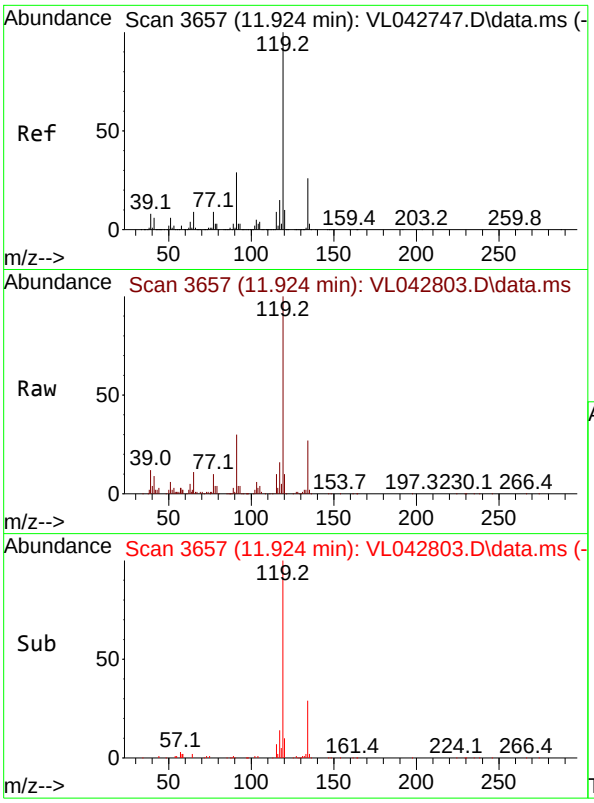


#68
1-Bromo-4-Fluorobenzene
Concen: 10.645 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 95 Resp: 346200

Ion	Ratio	Lower	Upper
95	100		
174	66.9	53.8	80.6
175	5.2	4.0	6.0



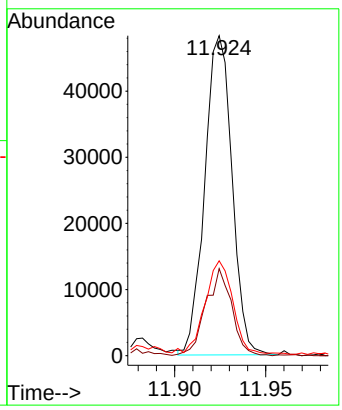


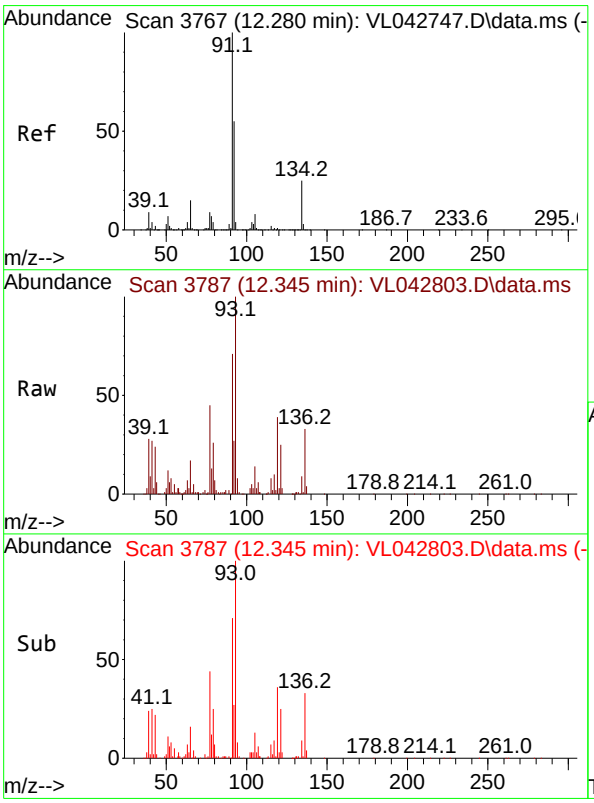
#69
p-Isopropyltoluene
Concen: 0.639 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion:119 Resp: 50306

Ion	Ratio	Lower	Upper
119	100		
134	26.2	20.6	31.0
91	29.3	23.2	34.8

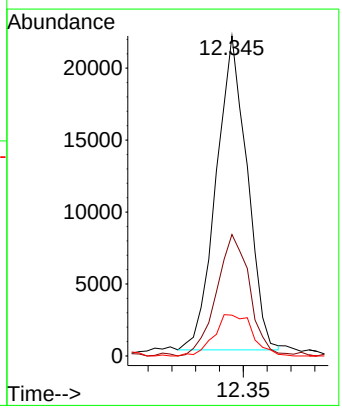


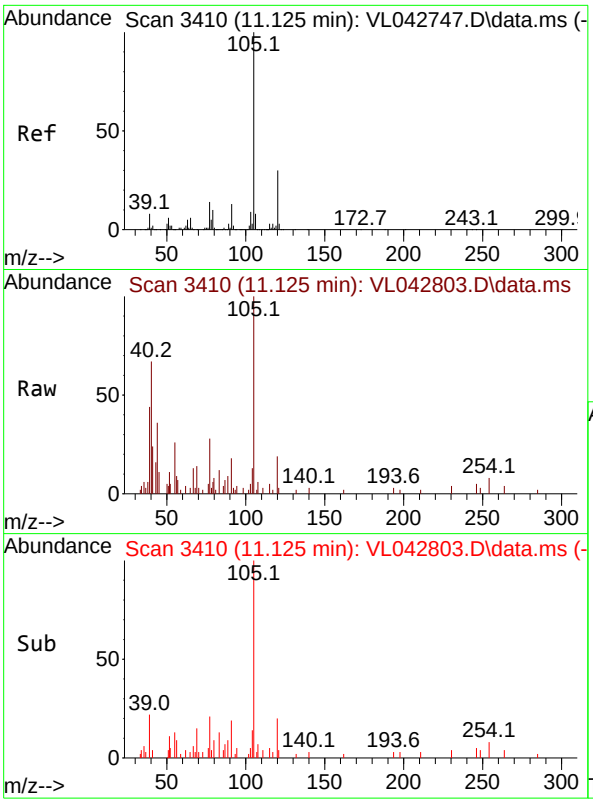


#70
n-Butylbenzene
Concen: 0.259 ppbv
RT: 12.345 min Scan# 3787
Delta R.T. 0.065 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 91 Resp: 19680

Ion	Ratio	Lower	Upper
91	100		
92	43.3	43.4	65.2#
134	16.3	19.6	29.4#



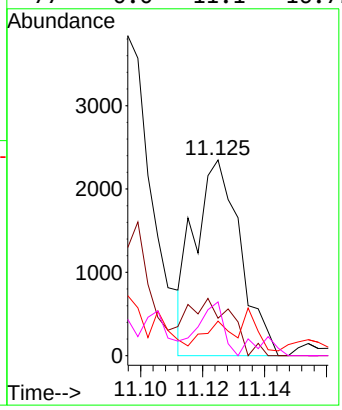


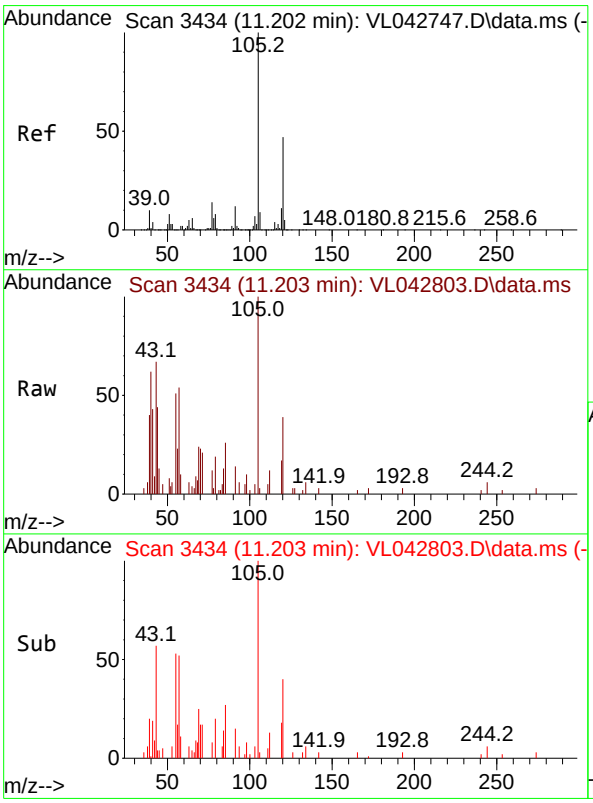
#72
4-Ethyltoluene
Concen: 0.039 ppbv
RT: 11.125 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion:105 Resp: 2403

Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.4	36.6#
91	0.0	10.6	15.8#
77	0.0	11.1	16.7#

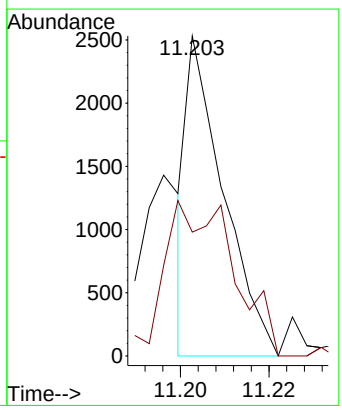


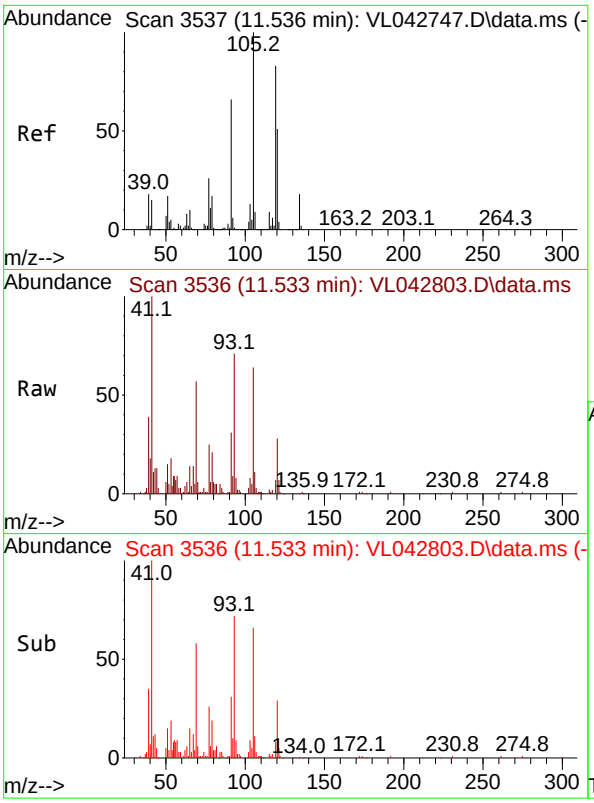


#73
1,3,5-Trimethylbenzene
Concen: 0.029 ppbv
RT: 11.203 min Scan# 3434
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:105 Resp: 1469

Ion	Ratio	Lower	Upper
105	100		
120	38.7	37.8	56.8



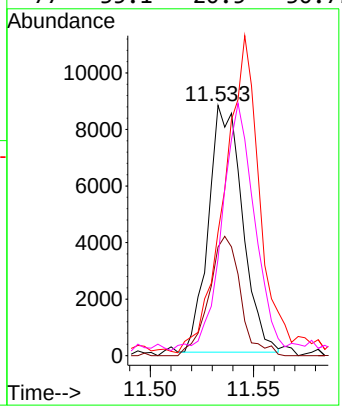


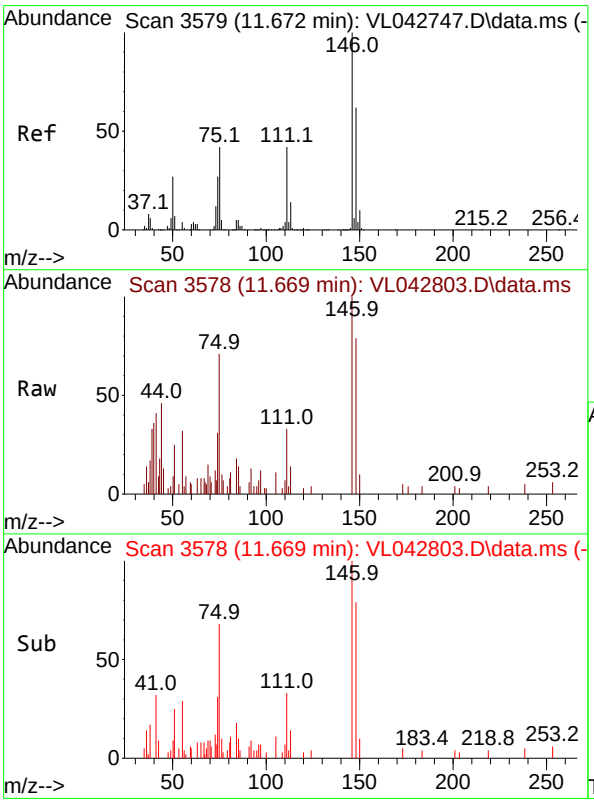
#74
1,2,4-Trimethylbenzene
Concen: 0.179 ppbv
RT: 11.533 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion:105 Resp: 9966

Ion	Ratio	Lower	Upper
105	100		
120	44.0	40.8	61.2
91	49.0	53.0	79.4#
77	35.1	20.5	30.7#

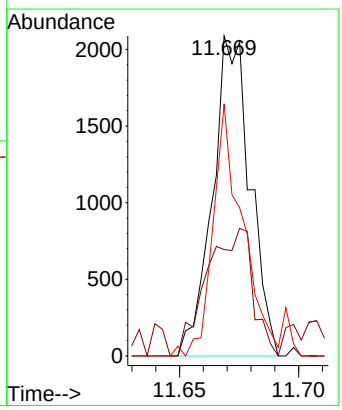


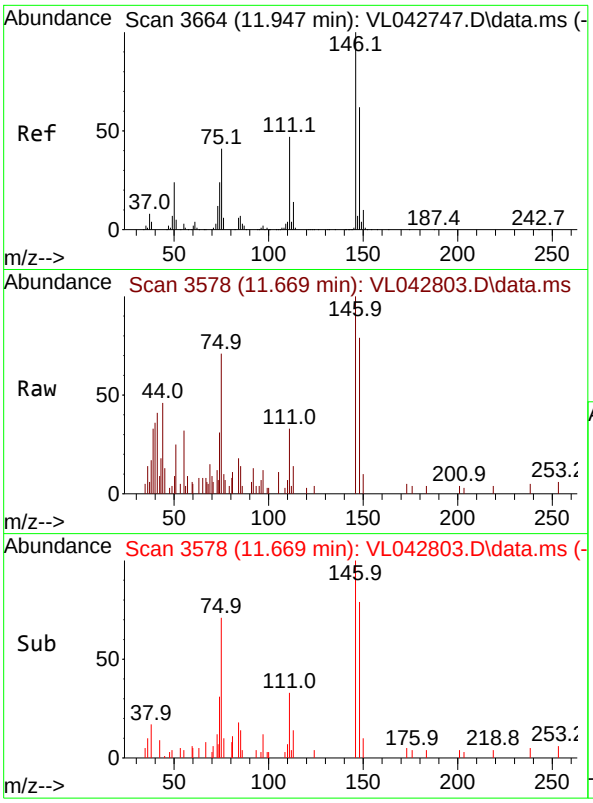


#76
1,4-Dichlorobenzene
Concen: 0.060 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:146 Resp: 2292

Ion	Ratio	Lower	Upper
146	100		
111	67.6	21.4	64.2#
148	65.1	32.1	96.3



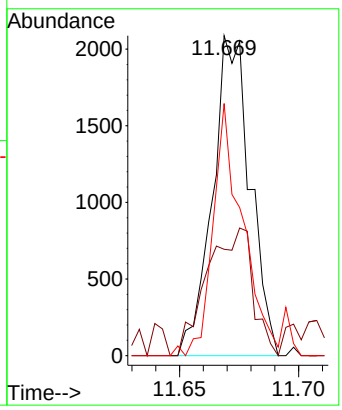


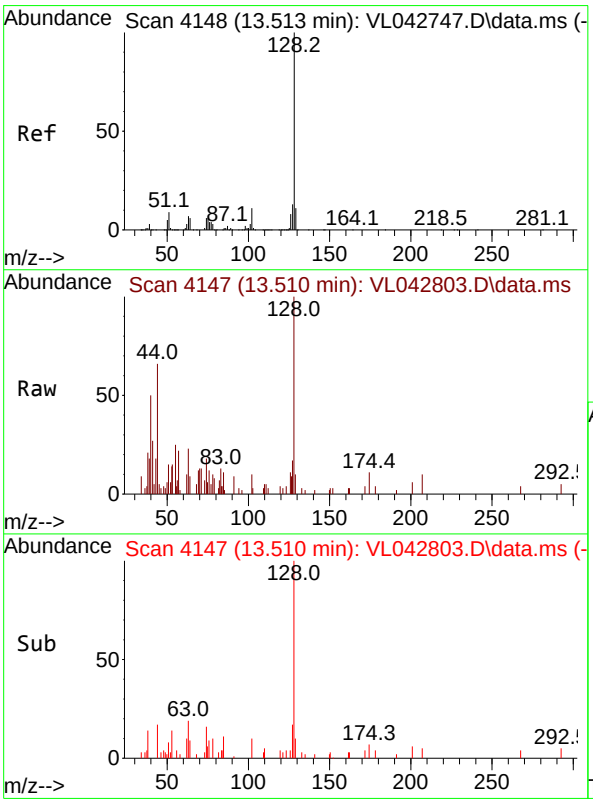
#77
1,2-Dichlorobenzene
Concen: 0.060 ppbv
RT: 11.669 min Scan# 3
Delta R.T. -0.278 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion:146 Resp: 2292

Ion	Ratio	Lower	Upper
146	100		
111	55.9	23.7	71.1
148	65.1	32.6	97.7

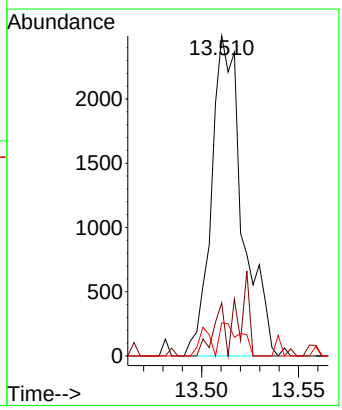


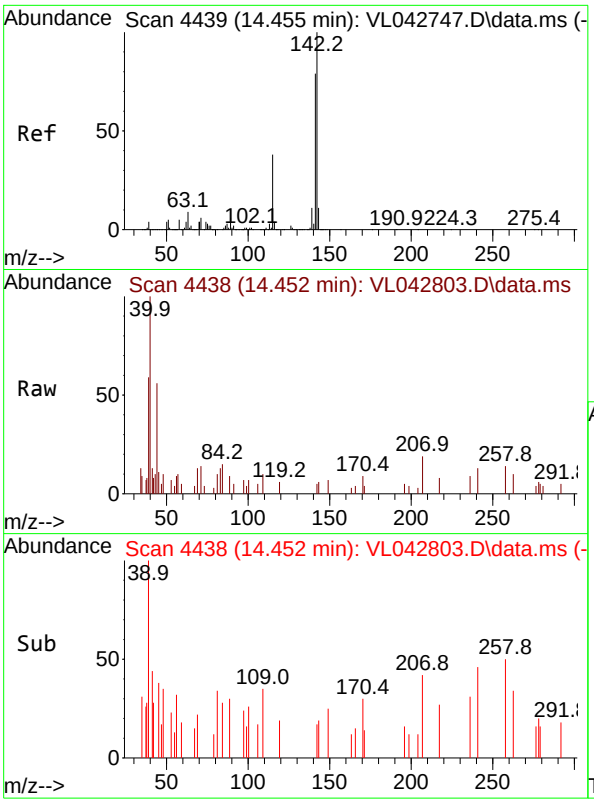


#79
Naphthalene
Concen: 0.479 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:128 Resp: 2763

Ion	Ratio	Lower	Upper
128	100		
127	16.5	10.5	15.7#
129	10.3	8.6	13.0



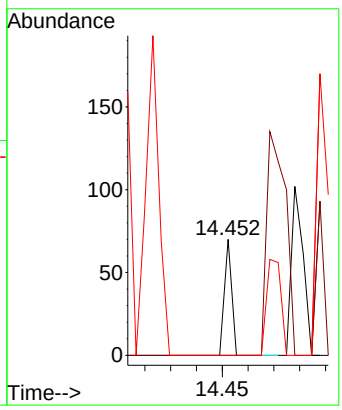


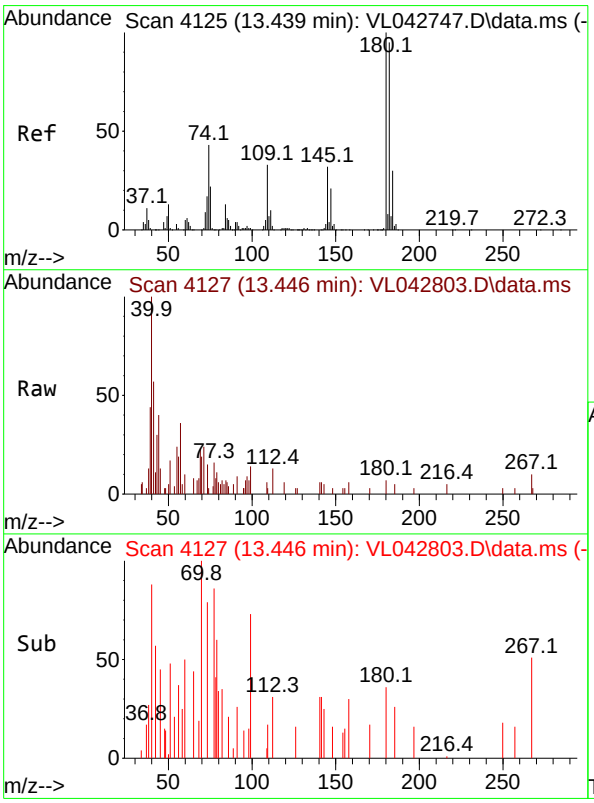
#80
Naphthalene,2-methyl-
Concen: 1.129 ppbv
RT: 14.452 min Scan# 44
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion:142 Resp: 14

Ion	Ratio	Lower	Upper
142	100		
141	0.0	65.8	98.8#
115	785.7	31.2	46.8#

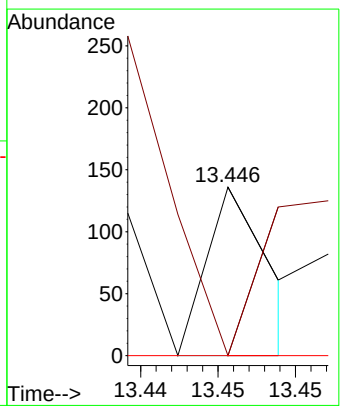




#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.446 min Scan# 4127
Delta R.T. 0.007 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:180 Resp: 38

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	0.0	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Quant Time: Aug 05 01:05:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	165635	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	469711	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	406040	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	346897	10.788	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 107.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	12410	0.567	ppbv		98
3) Chlorodifluoromethane	1.476	51	1563029	54.789	ppbv	#	85
4) Chloromethane	1.531	50	6069	0.685	ppbv		92
5) Vinyl Chloride	1.486	62	1276	0.146	ppbv	#	44
6) Bromomethane	1.661	94	138	0.041	ppbv	#	1
7) Chloroethane	1.657	64	237	0.070	ppbv	#	45
8) Dichlorotetrafluoroethane	1.499	85	12410	0.689	ppbv	#	22
9) Propene	1.560	41	551542	53.195	ppbv		97
10) Heptane	4.985	43	3982	0.142	ppbv	#	69
11) Trichlorofluoromethane	1.878	101	4654	0.206	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.140	101	1389	0.081	ppbv		95
13) Ethanol	1.729	45	4952347	6558.716	ppbv		94
15) Acetone	1.835	43	2236923	97.803	ppbv	#	78
16) 1,3-Butadiene	1.560	39	269946	27.671	ppbv	#	16
17) tert-Butyl alcohol	1.991	59	8032732	389.412	ppbv		97
19) Isopropyl Alcohol	1.988	45	25024359	2058.899	ppbv	#	39
20) Methylene Chloride	2.065	84	13675	1.897	ppbv		94
21) Allyl Chloride	1.988	41	12708793	901.582	ppbv	#	78
23) Vinyl Acetate	2.463	43	31695	1.143	ppbv	#	91
25) Ethyl Acetate	2.845	43	252088	4.979	ppbv	#	62
26) Hexane	2.826	57	36940	1.663	ppbv	#	1
27) Carbon Disulfide	2.149	76	56958	2.996	ppbv	#	66
29) Chloroform	2.852	83	19685	0.574	ppbv		95
30) Cyclohexane	3.868	84	953	0.051	ppbv	#	1
31) cis-1,2-Dichloroethene	2.845	61	26924	1.180	ppbv	#	23
34) 2-Butanone	2.567	43	35229	1.059	ppbv		97
35) Carbon Tetrachloride	3.771	117	1096	0.031	ppbv		90
36) Benzene	3.654	78	12364	0.278	ppbv	#	88
39) 1,2-Dichloropropane	3.962	63	119723	7.286	ppbv	#	21
42) Bromodichloromethane	4.502	83	2354	0.067	ppbv	#	77
43) Methyl Methacrylate	4.888	69	914	0.058	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.648	57	4005	0.055	ppbv	#	7
53) Toluene	6.943	91	18258	0.382	ppbv	#	21
58) Ethyl Benzene	9.361	91	5636	0.088	ppbv		93
59) m/p-Xylene	9.558	91	1820	0.036	ppbv	#	30
60) o-Xylene	9.972	91	3823	0.075	ppbv		73
61) Styrene	9.875	104	4911	0.228	ppbv		94
62) Isopropylbenzene	10.542	105	2059	0.027	ppbv		95
64) n-propylbenzene	10.992	120	458	0.023	ppbv	#	1
66) Benzyl Chloride	11.549	91	12100	2.197	ppbv	#	67
67) sec-Butylbenzene	11.853	105	44174	0.463	ppbv		99
69) p-Isopropyltoluene	11.927	119	59315	0.762	ppbv		97
70) n-Butylbenzene	12.351	91	22421	0.298	ppbv	#	85

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Quant Time: Aug 05 01:05:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

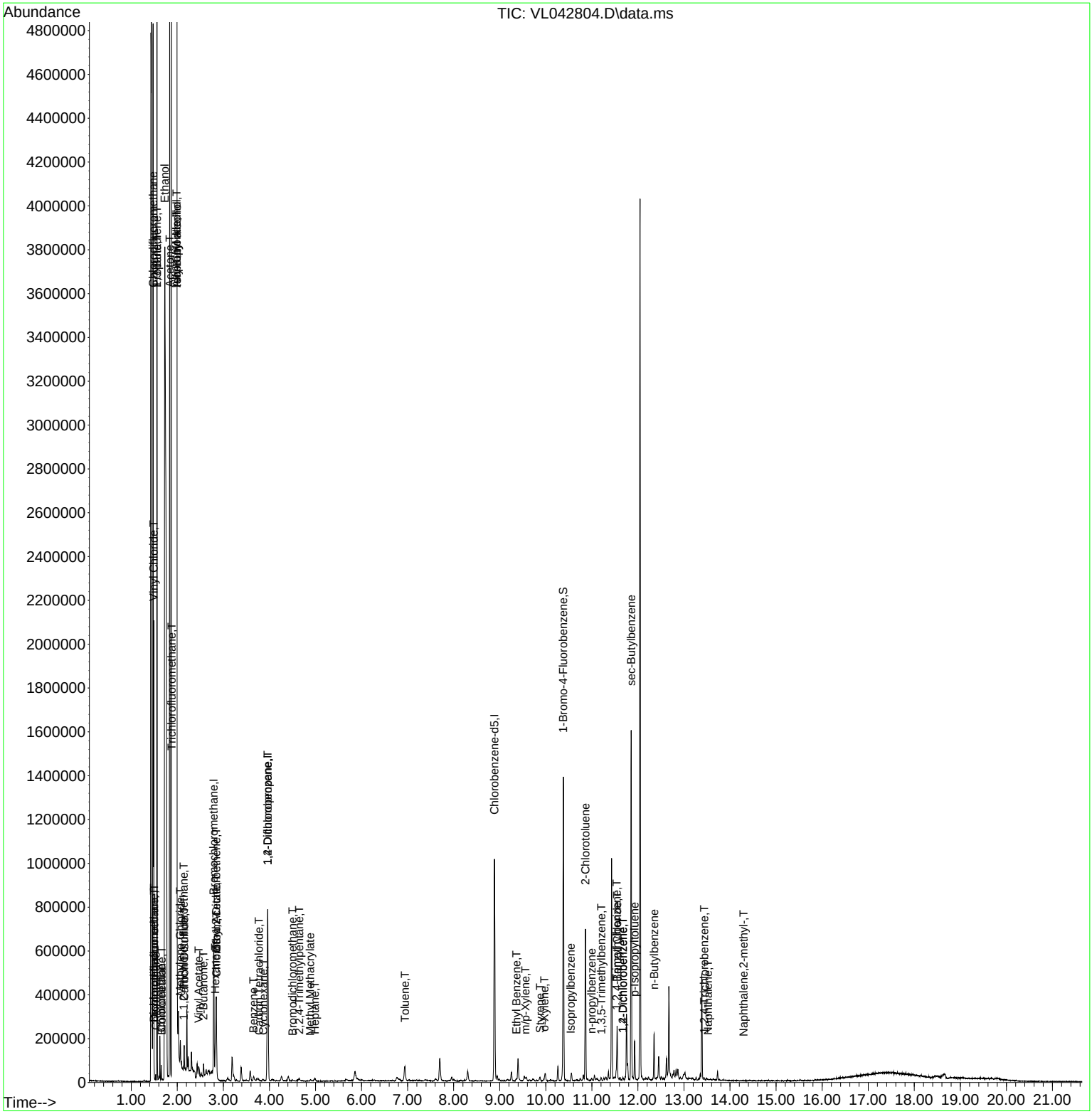
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71) 2-Chlorotoluene	10.859	91	83071	1.434	ppbv	#	45
73) 1,3,5-Trimethylbenzene	11.209	105	1195	0.024	ppbv		89
74) 1,2,4-Trimethylbenzene	11.539	105	7912	0.144	ppbv	#	71
76) 1,4-Dichlorobenzene	11.675	146	2258	0.060	ppbv		83
77) 1,2-Dichlorobenzene	11.675	146	2258	0.060	ppbv		95
79) Naphthalene	13.523	128	1719	0.463	ppbv	#	73
80) Naphthalene,2-methyl-	14.293	142	51	1.130	ppbv		88
81) 1,2,4-Trichlorobenzene	13.439	180	218	0.441	ppbv	#	12

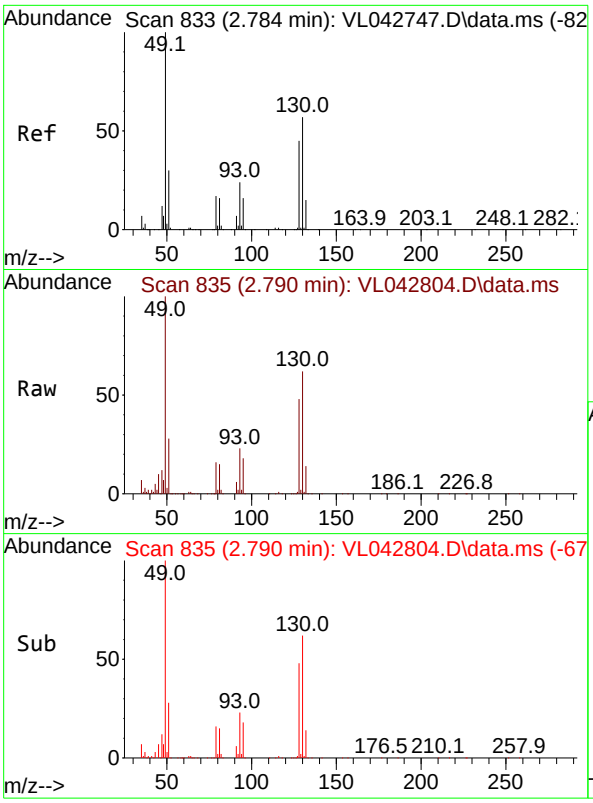
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042804.D
Acq On : 04 Aug 2025 14:37
Operator : SY/MD
Sample : Q2750-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Quant Time: Aug 05 01:05:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



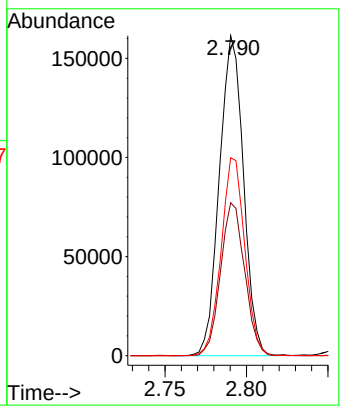


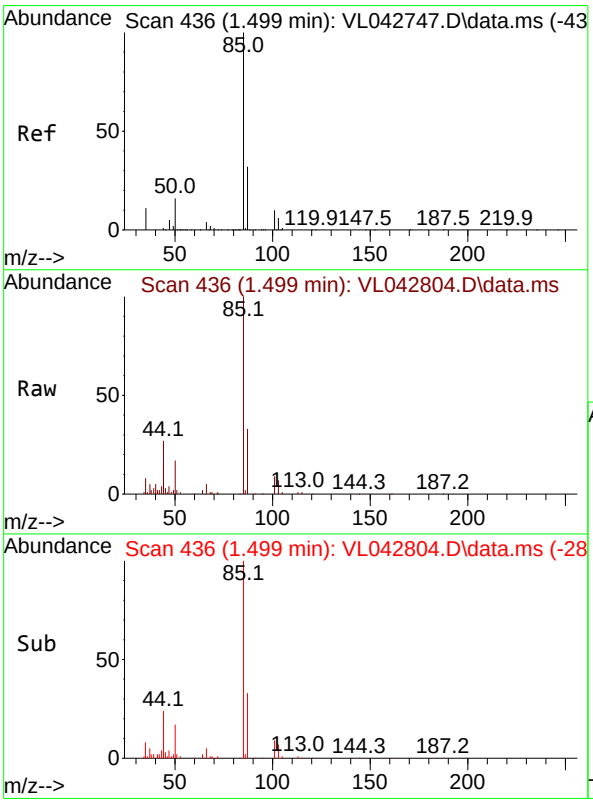
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 49 Resp: 165635

Ion	Ratio	Lower	Upper
49	100		
128	47.9	23.6	71.0
130	60.9	30.3	90.8

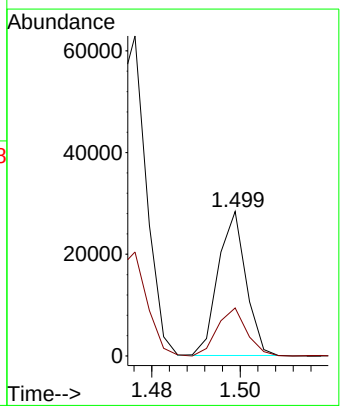


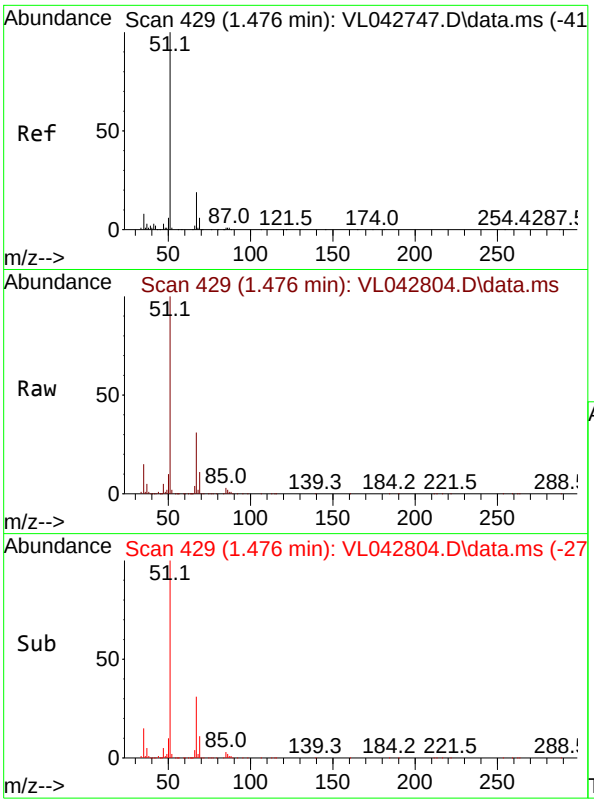


#2
Dichlorodifluoromethane
Concen: 0.567 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 85 Resp: 12410

Ion	Ratio	Lower	Upper
85	100		
87	33.2	25.4	38.2



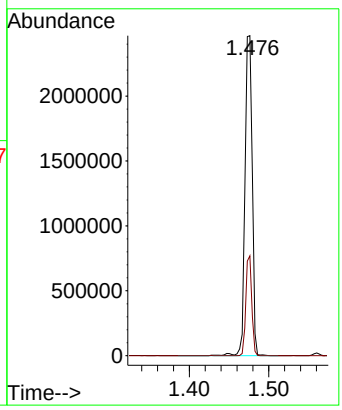


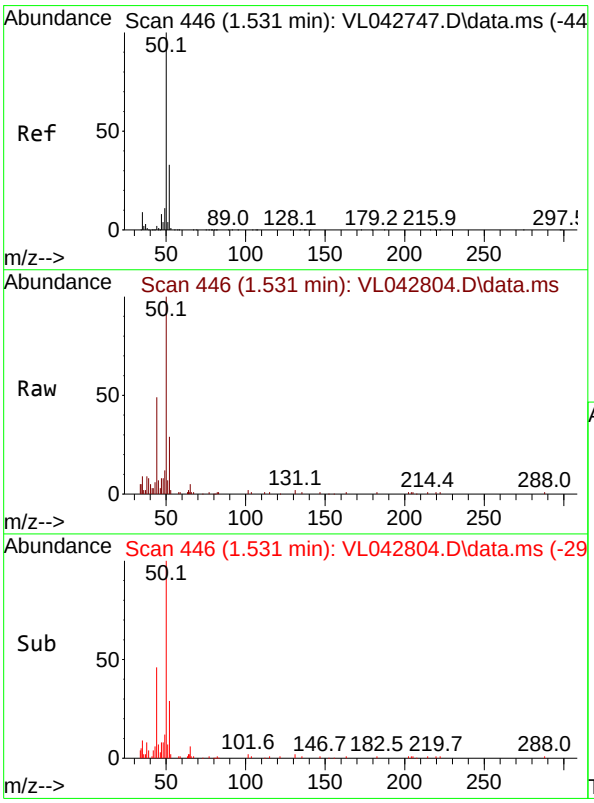
#3
Chlorodifluoromethane
Concen: 54.789 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 51 Resp: 1563029

Ion	Ratio	Lower	Upper
51	100		
67	25.6	15.0	22.6#

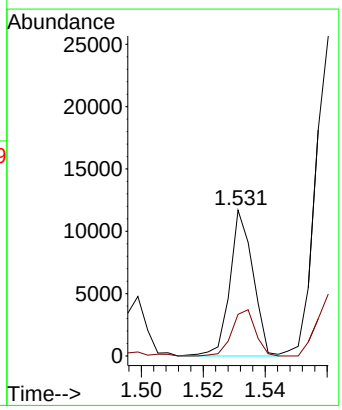


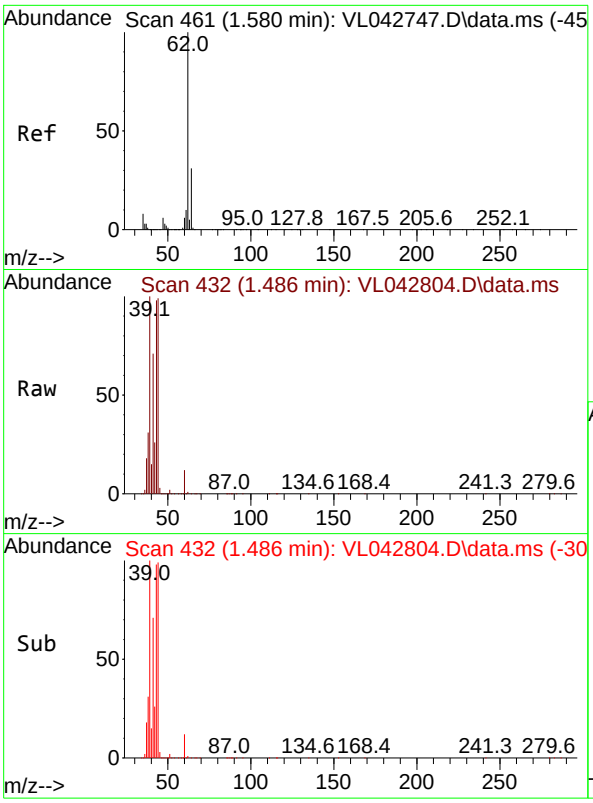


#4
Chloromethane
Concen: 0.685 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 50 Resp: 6069

Ion	Ratio	Lower	Upper
50	100		
52	28.5	26.6	40.0



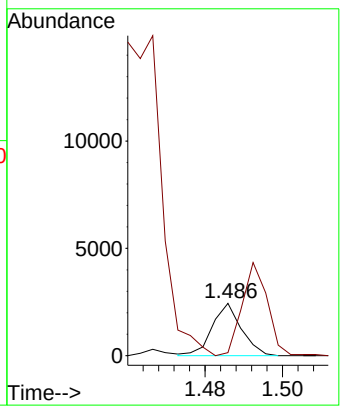


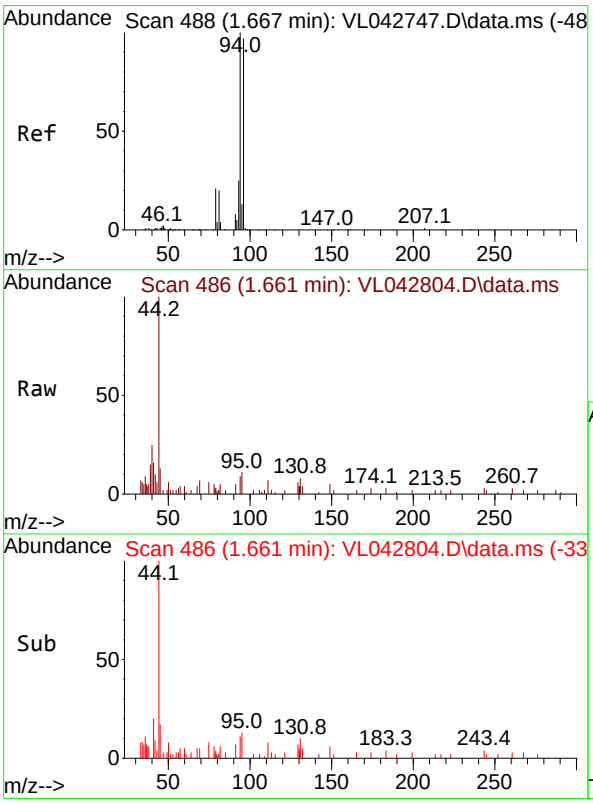
#5
Vinyl Chloride
Concen: 0.146 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.094 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 62 Resp: 1276

Ion	Ratio	Lower	Upper
62	100		
64	0.0	24.5	36.7#

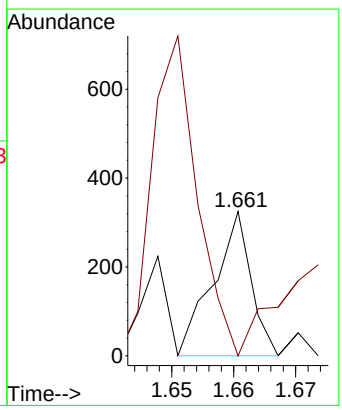


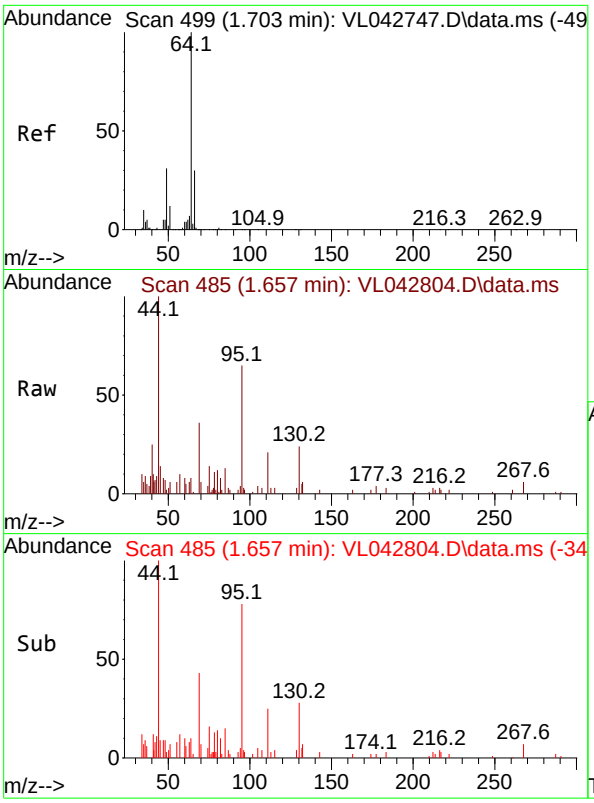


#6
Bromomethane
Concen: 0.041 ppbv
RT: 1.661 min Scan# 486
Delta R.T. -0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 94 Resp: 138

Ion	Ratio	Lower	Upper
94	100		
96	0.0	77.6	116.4#



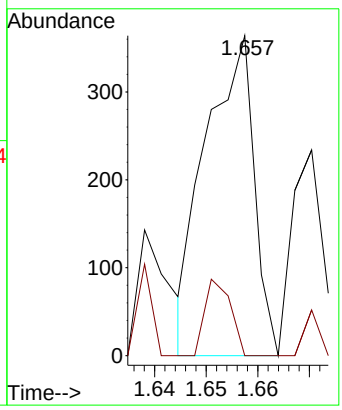


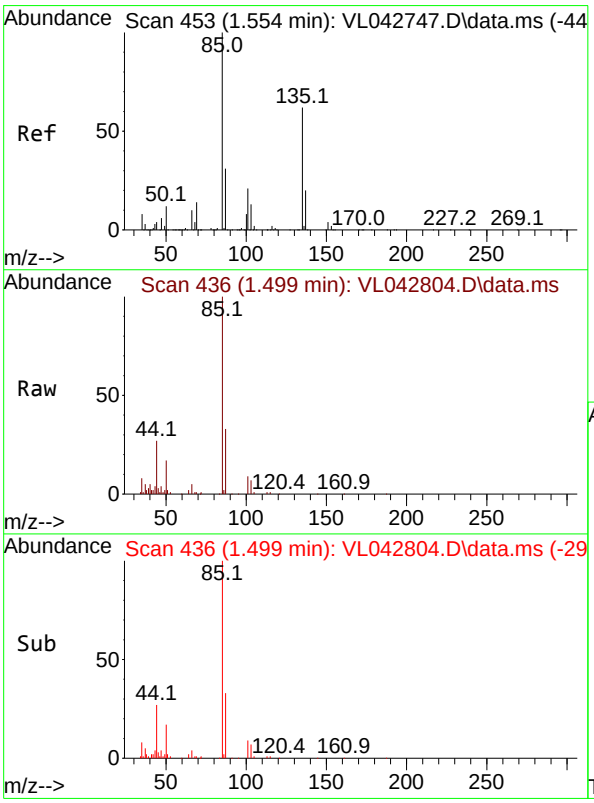
#7
Chloroethane
Concen: 0.070 ppbv
RT: 1.657 min Scan# 4
Delta R.T. -0.045 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 64 Resp: 237

Ion	Ratio	Lower	Upper
64	100		
66	0.0	24.1	36.1#

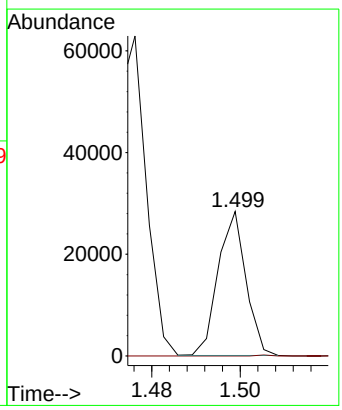


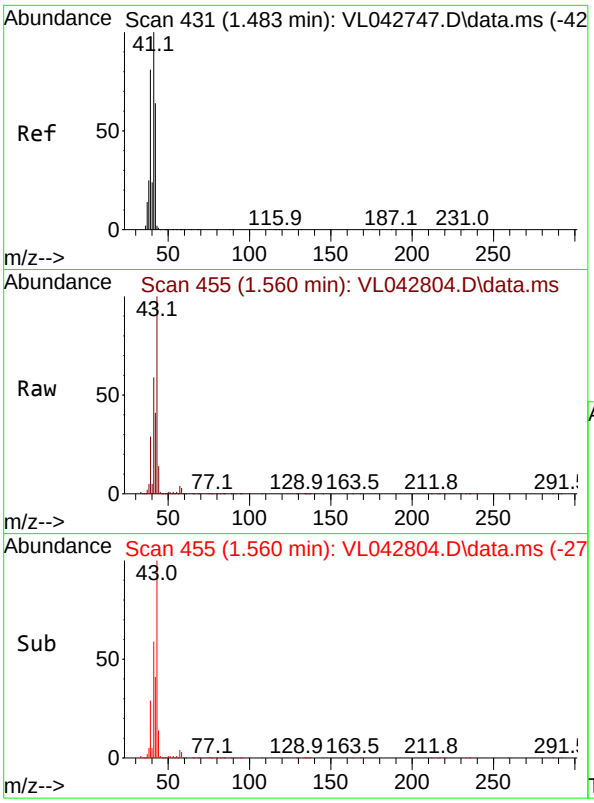


#8
Dichlorotetrafluoroethane
Concen: 0.689 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.055 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 85 Resp: 12410

Ion	Ratio	Lower	Upper
85	100		
135	2.4	50.6	76.0#



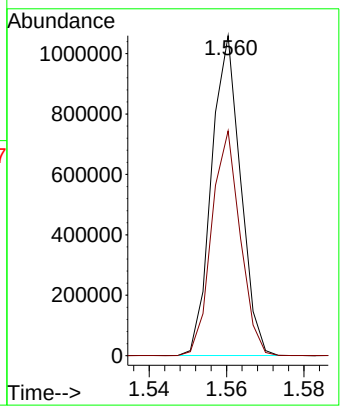


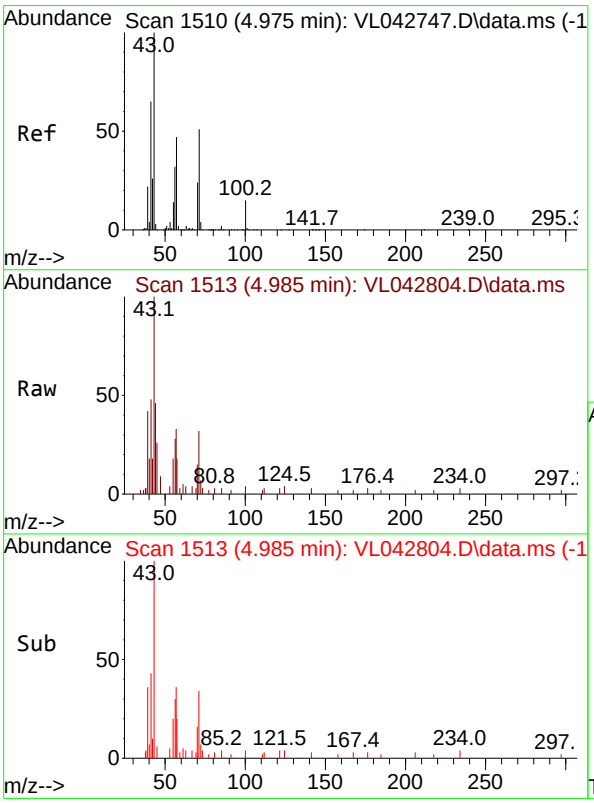
#9
Propene
Concen: 53.195 ppbv
RT: 1.560 min Scan# 4
Delta R.T. 0.078 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 41 Resp: 551542

Ion	Ratio	Lower	Upper
41	100		
42	69.2	53.2	79.8

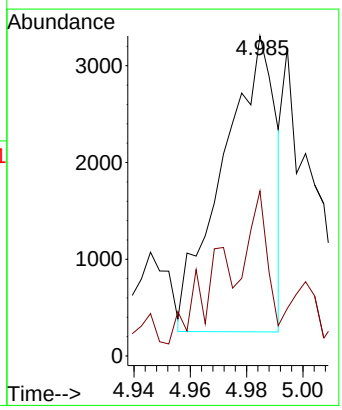


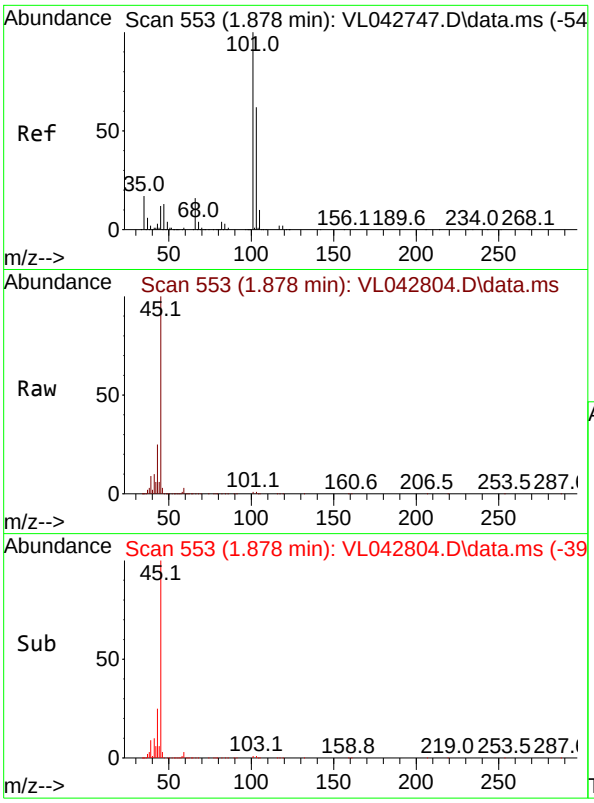


#10
Heptane
Concen: 0.142 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.010 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 43 Resp: 3982

Ion	Ratio	Lower	Upper
43	100		
57	71.5	39.9	59.9#



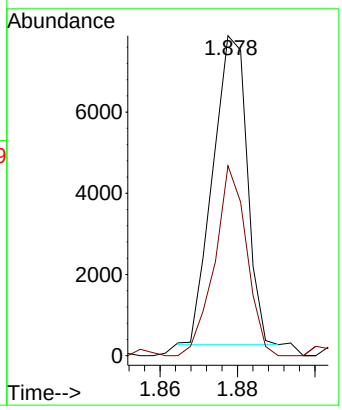


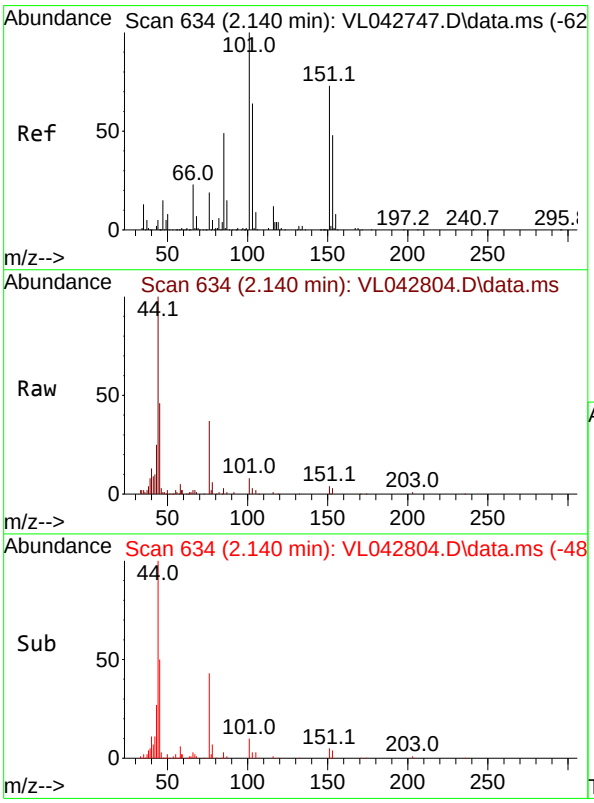
#11
Trichlorofluoromethane
Concen: 0.206 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion:101 Resp: 4654

Ion	Ratio	Lower	Upper
101	100		
103	61.5	49.6	74.4

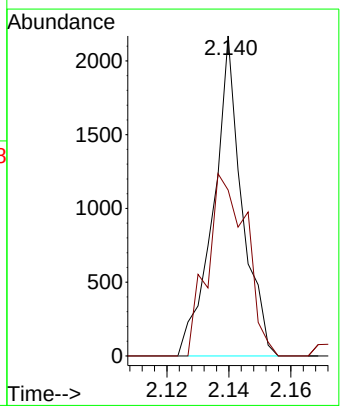


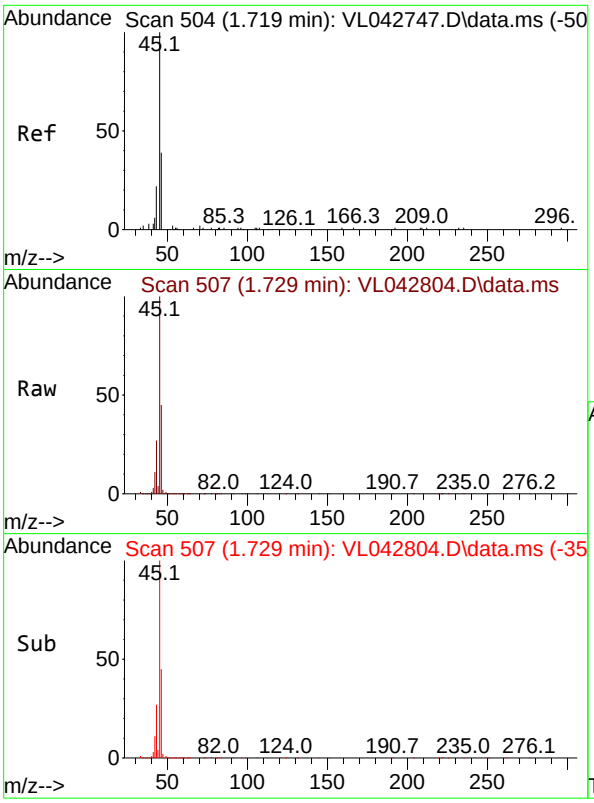


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.081 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:101 Resp: 1389

Ion	Ratio	Lower	Upper
101	100		
151	79.7	60.5	90.7



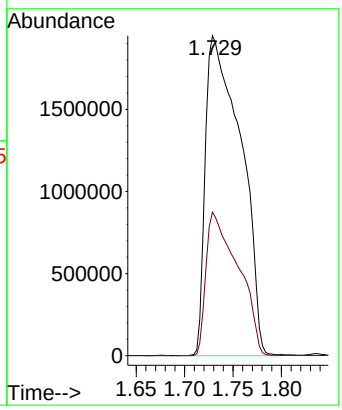


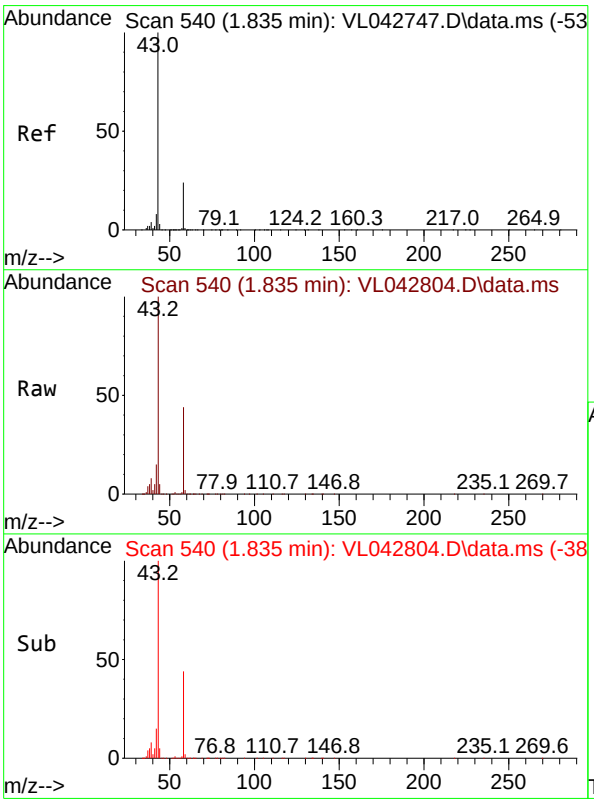
#13
Ethanol
Concen: 6558.716 ppbv
RT: 1.729 min Scan# 5
Delta R.T. 0.010 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 45 Resp: 4952347

Ion	Ratio	Lower	Upper
45	100		
46	40.9	17.8	71.4

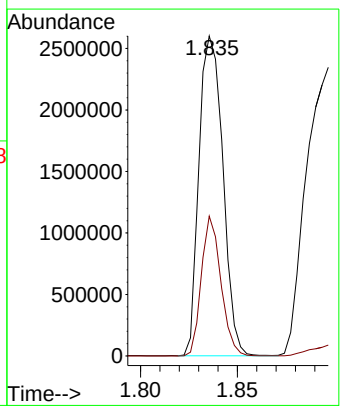


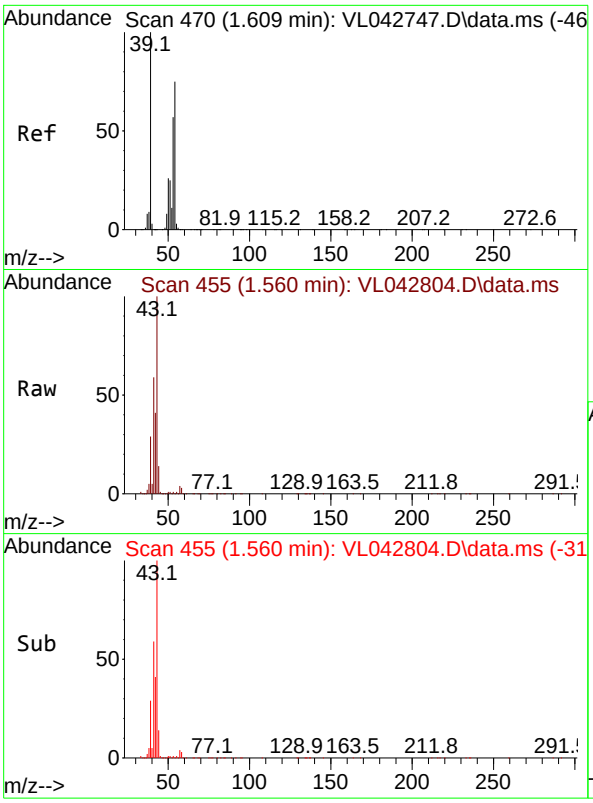


#15
Acetone
Concen: 97.803 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 43 Resp: 2236923

Ion	Ratio	Lower	Upper
43	100		
58	35.8	19.8	29.8#



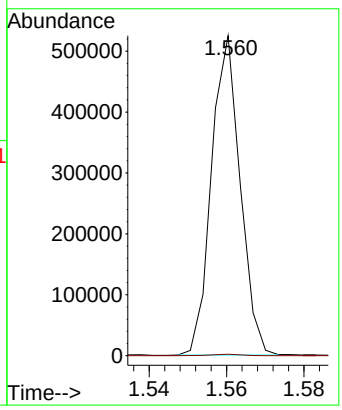


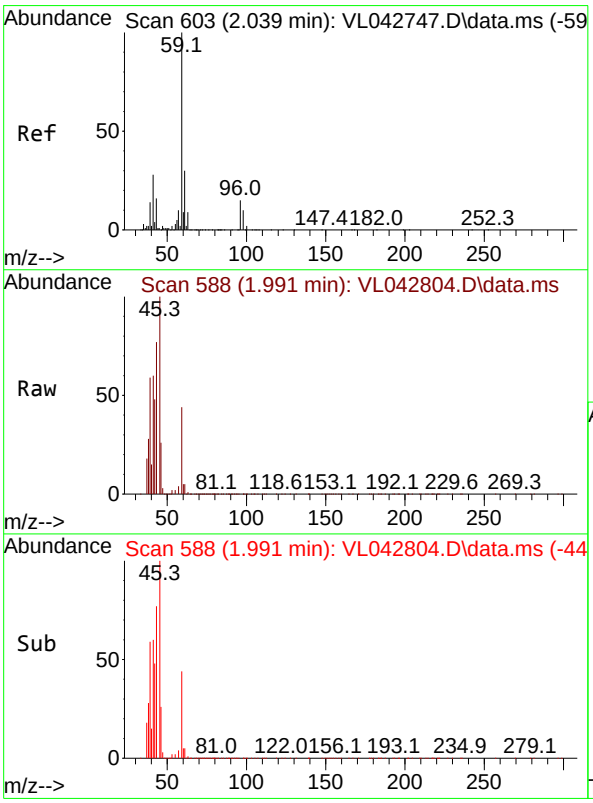
#16
1,3-Butadiene
Concen: 27.671 ppbv
RT: 1.560 min Scan# 4
Delta R.T. -0.049 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 39 Resp: 269946

Ion	Ratio	Lower	Upper
39	100		
54	0.5	54.5	81.7#

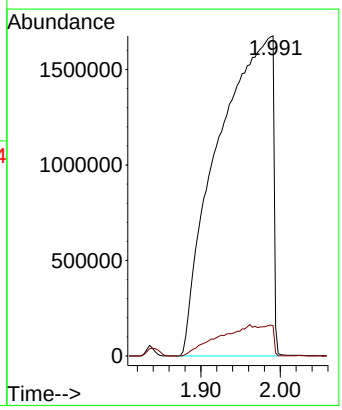


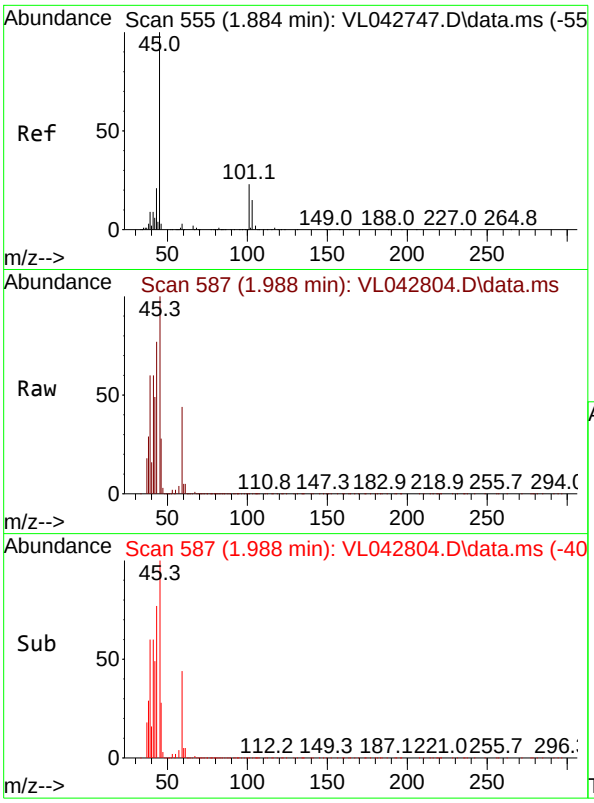


#17
tert-Butyl alcohol
Concen: 389.412 ppbv
RT: 1.991 min Scan# 588
Delta R.T. -0.049 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 59 Resp: 8032732

Ion	Ratio	Lower	Upper
59	100		
57	9.2	8.3	12.5



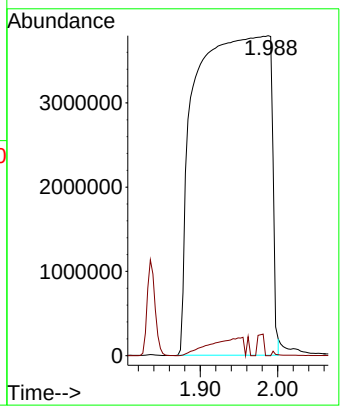


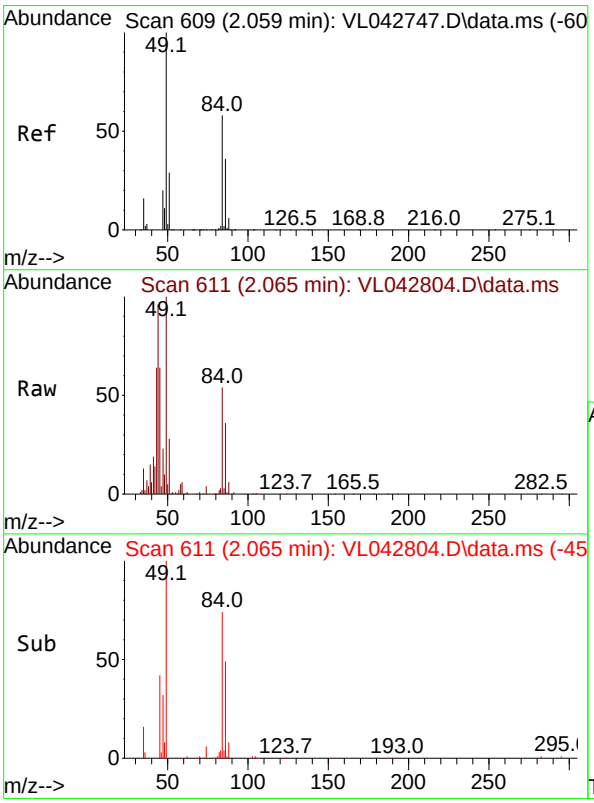
#19
Isopropyl Alcohol
Concen: 2058.899 ppbv
RT: 1.988 min Scan# 5
Delta R.T. 0.104 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 45 Resp:25024359

Ion	Ratio	Lower	Upper
45	100		
58	0.7	30.0	45.0#

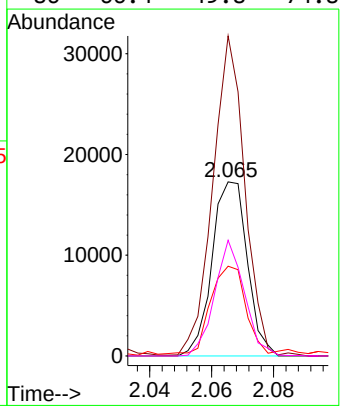


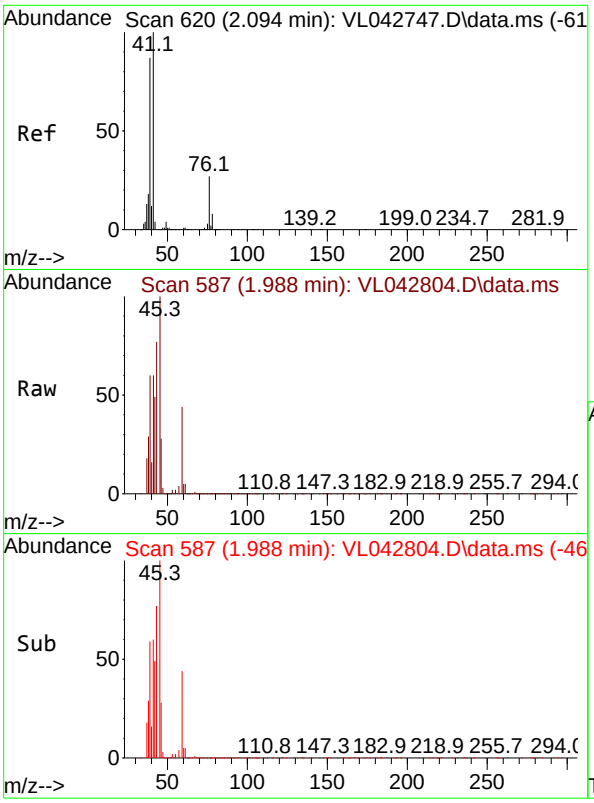


#20
Methylene Chloride
Concen: 1.897 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 84 Resp: 13675

Ion	Ratio	Lower	Upper
84	100		
49	183.1	138.6	208.0
51	49.6	40.6	61.0
86	66.4	49.8	74.8



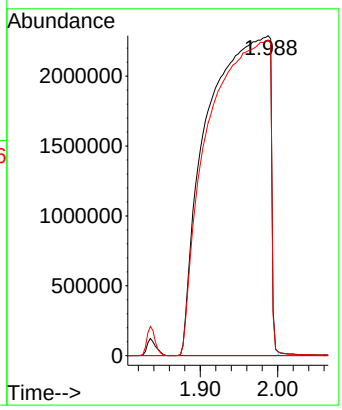


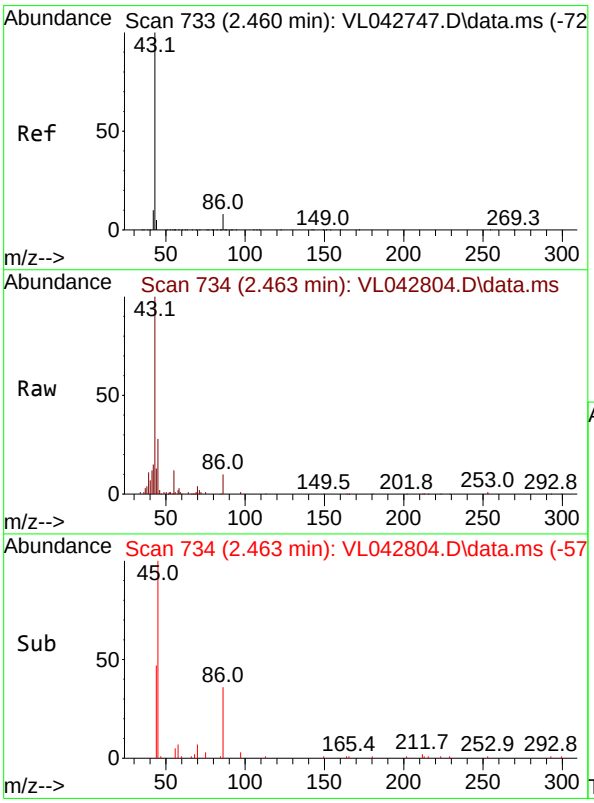
#21
Allyl Chloride
Concen: 901.582 ppbv
RT: 1.988 min Scan# 5
Delta R.T. -0.107 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 41 Resp:12708793

Ion	Ratio	Lower	Upper
41	100		
76	0.4	21.1	31.7#
39	97.2	68.3	102.5

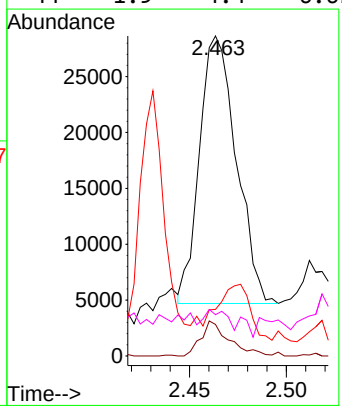


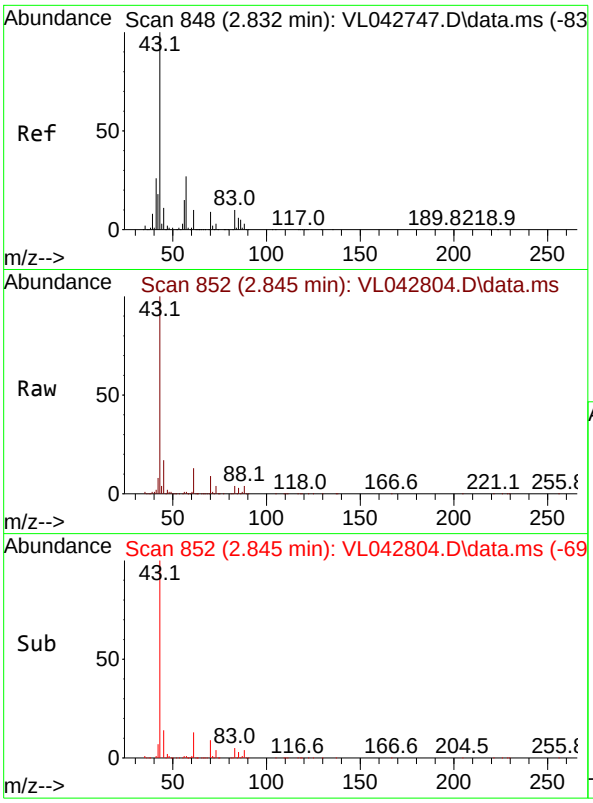


#23
Vinyl Acetate
Concen: 1.143 ppbv
RT: 2.463 min Scan# 734
Delta R.T. 0.003 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 43 Resp: 31695

Ion	Ratio	Lower	Upper
43	100		
86	11.8	6.1	9.1#
42	8.1	7.8	11.8
44	1.9	4.4	6.6#



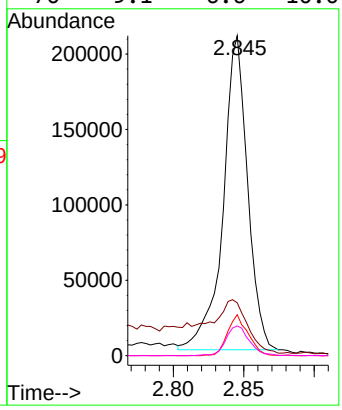


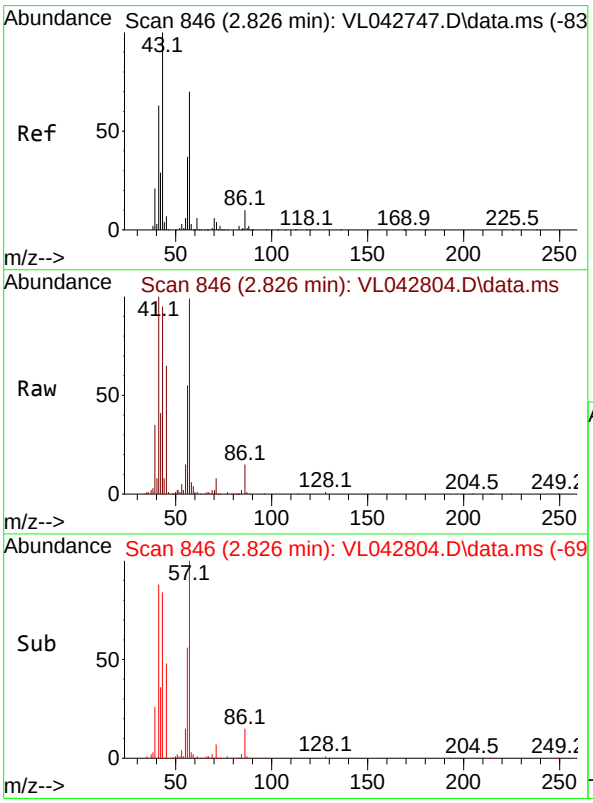
#25
Ethyl Acetate
Concen: 4.979 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.013 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 43 Resp: 252088

Ion	Ratio	Lower	Upper
43	100		
45	44.4	7.8	11.6#
61	11.0	6.7	10.1#
70	9.1	6.6	10.0

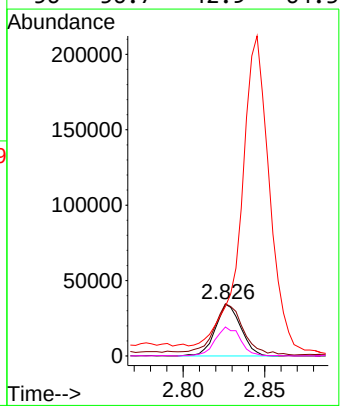


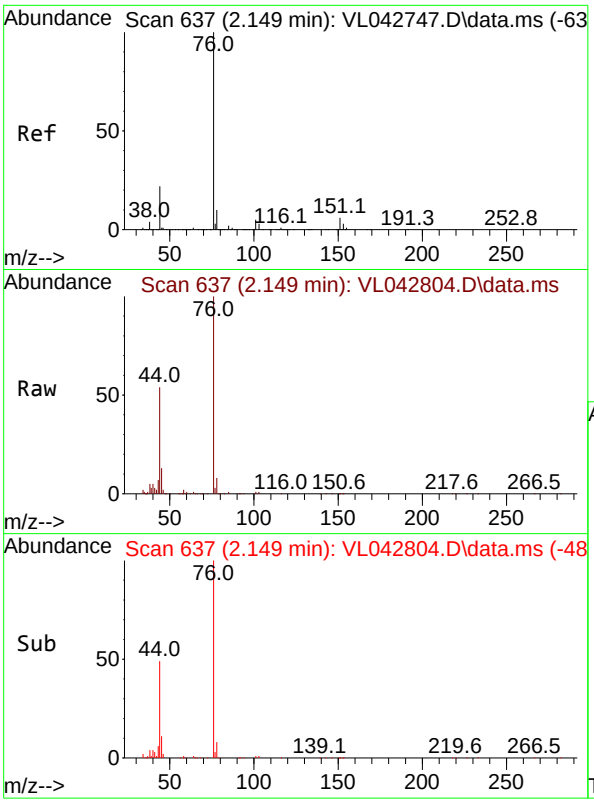


#26
Hexane
Concen: 1.663 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 57 Resp: 36940

Ion	Ratio	Lower	Upper
57	100		
41	124.4	75.4	113.2#
43	733.9	185.0	277.6#
56	56.7	42.9	64.3



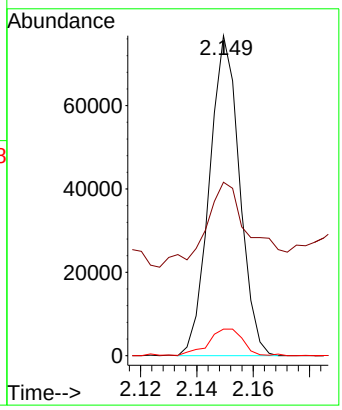


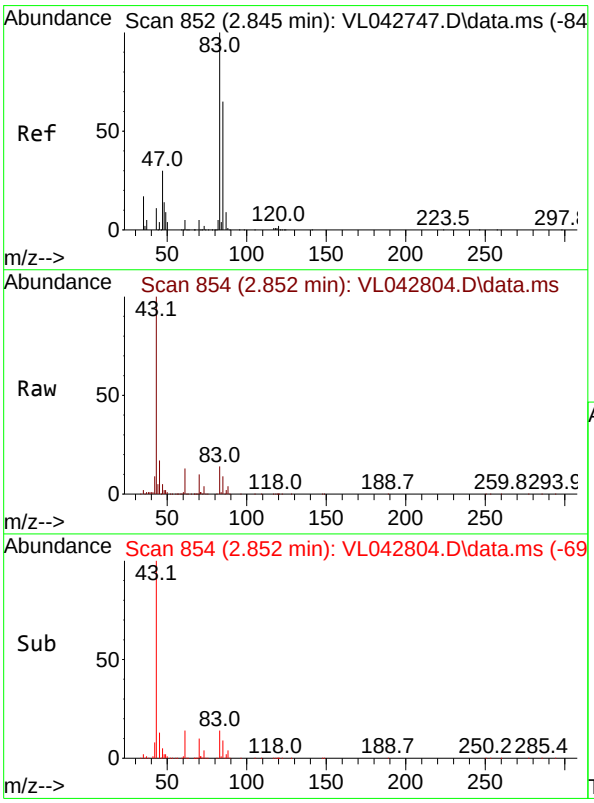
#27
Carbon Disulfide
Concen: 2.996 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 76 Resp: 56958

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	10.2	9.9	14.9

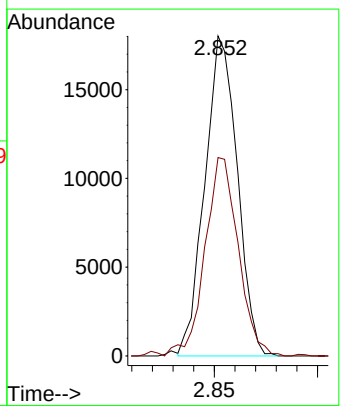


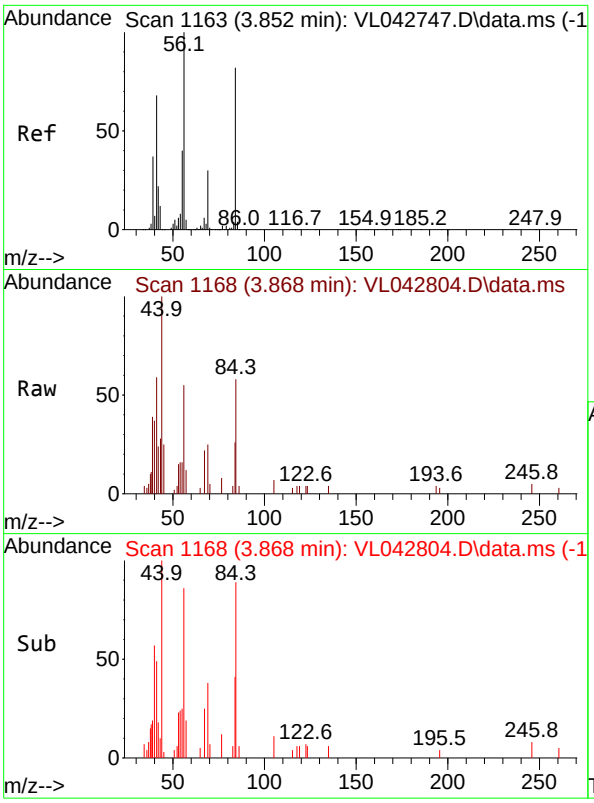


#29
Chloroform
Concen: 0.574 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 83 Resp: 19685

Ion	Ratio	Lower	Upper
83	100		
85	61.3	52.2	78.2



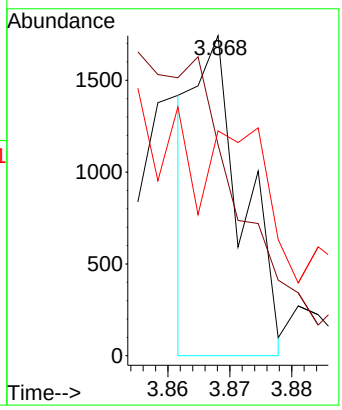


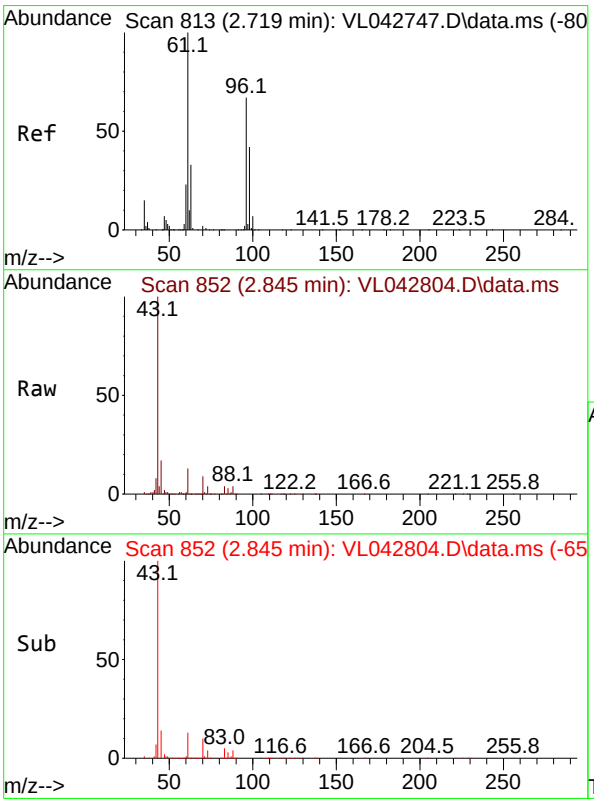
#30
Cyclohexane
Concen: 0.051 ppbv
RT: 3.868 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 84 Resp: 953

Ion	Ratio	Lower	Upper
84	100		
56	0.0	97.5	146.3#
41	0.0	67.2	100.8#

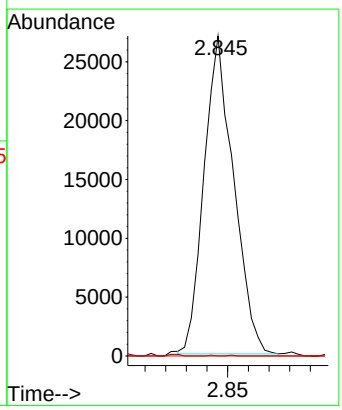


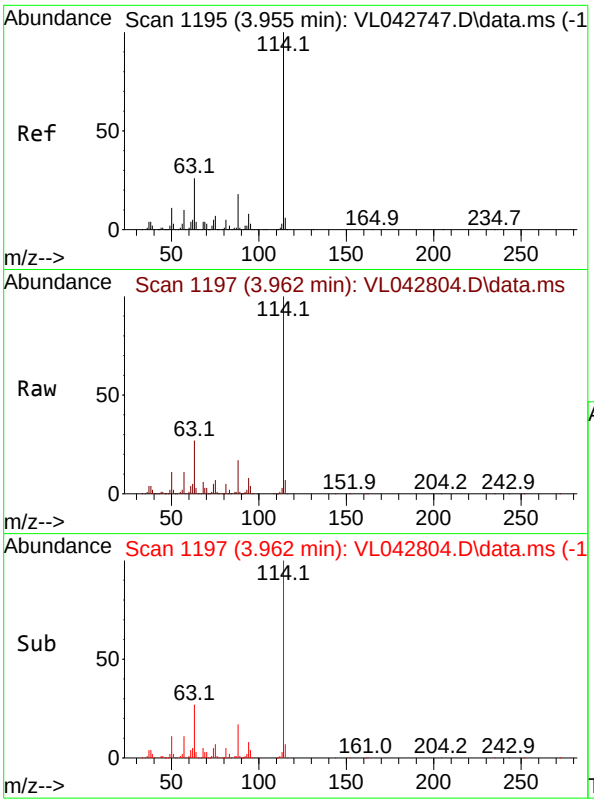


#31
cis-1,2-Dichloroethene
Concen: 1.180 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.126 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 61 Resp: 26924

Ion	Ratio	Lower	Upper
61	100		
96	0.0	53.5	80.3#
98	0.0	33.6	50.4#



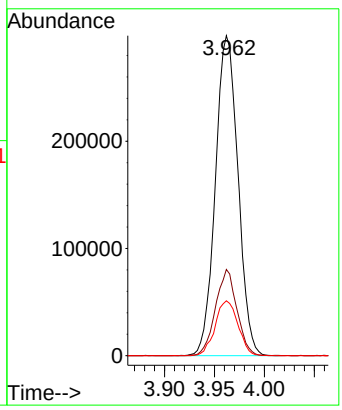


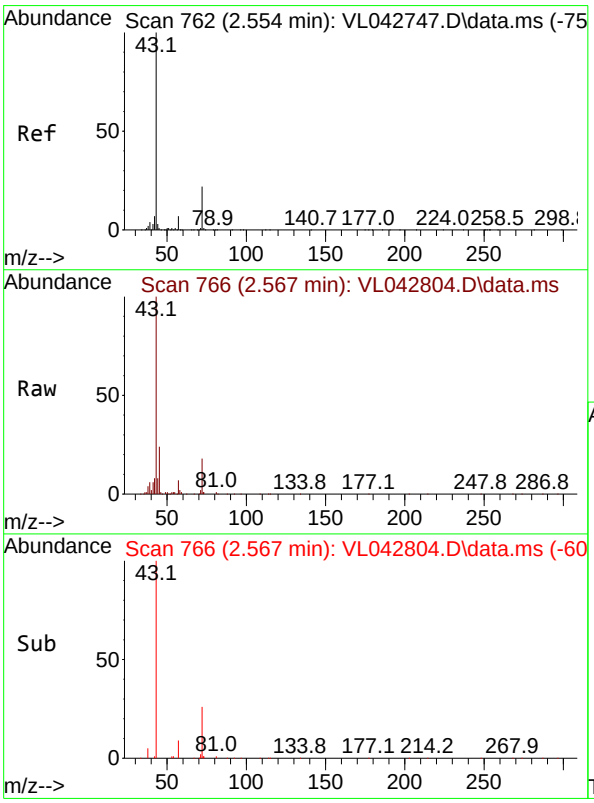
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion:114 Resp: 469711

Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.5	30.7
88	17.4	14.0	21.0

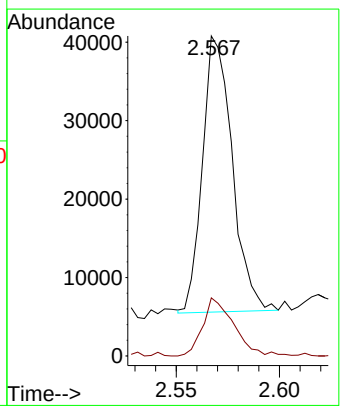


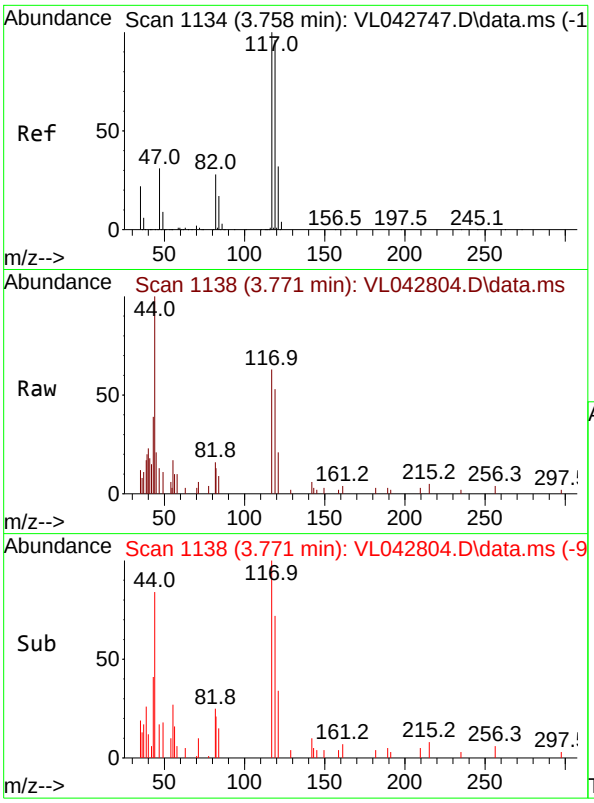


#34
2-Butanone
Concen: 1.059 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 43 Resp: 35229

Ion	Ratio	Lower	Upper
43	100		
72	23.0	17.4	26.0



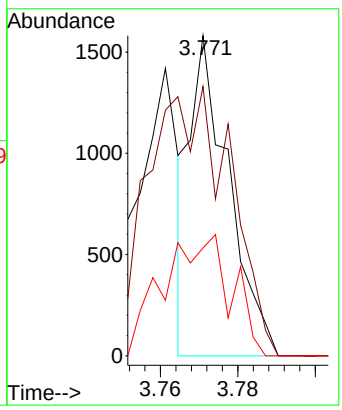


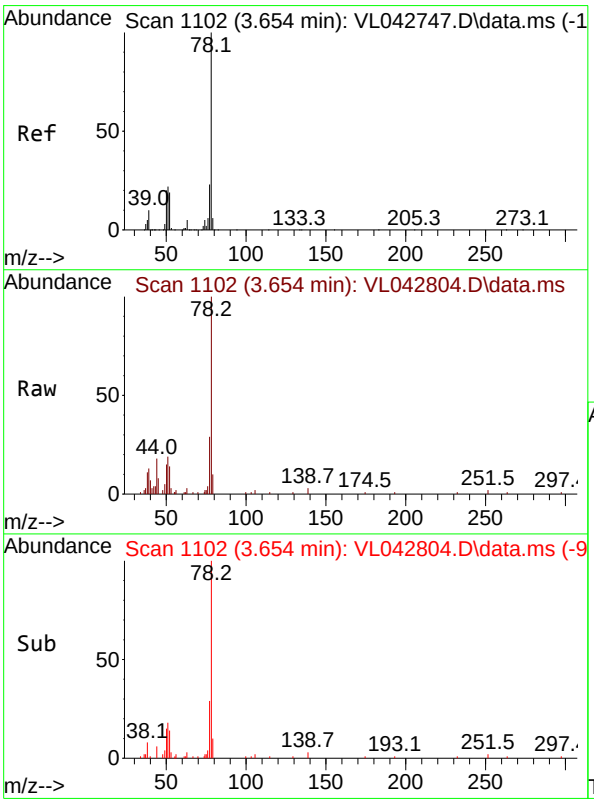
#35
Carbon Tetrachloride
Concen: 0.031 ppbv
RT: 3.771 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion:117 Resp: 1096

Ion	Ratio	Lower	Upper
117	100		
119	84.1	77.1	115.7
121	33.6	25.5	38.3

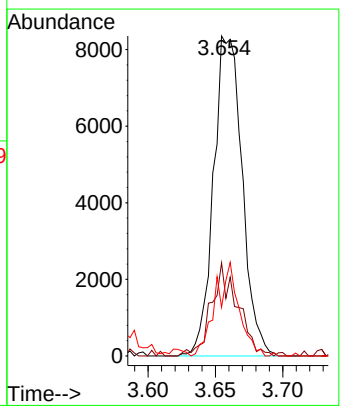


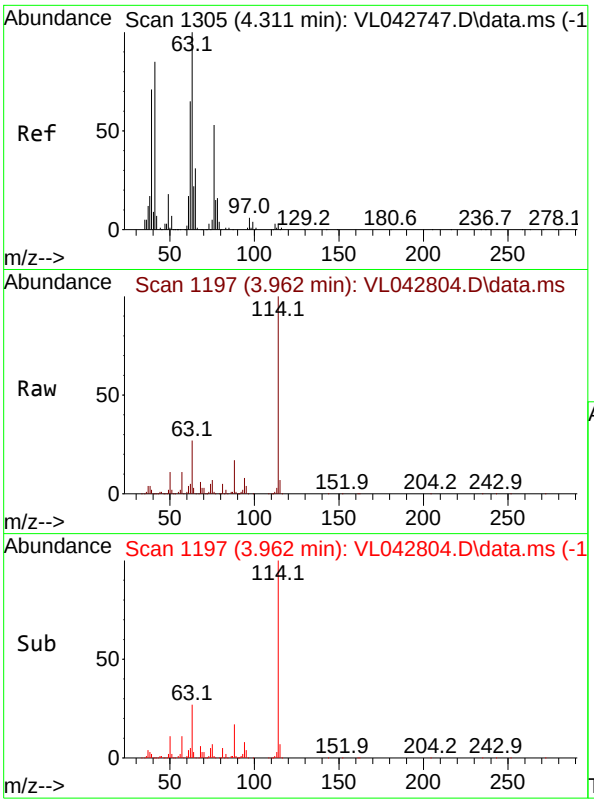


#36
Benzene
Concen: 0.278 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 78 Resp: 12364

Ion	Ratio	Lower	Upper
78	100		
77	29.1	18.5	27.7#
50	15.2	16.2	24.2#



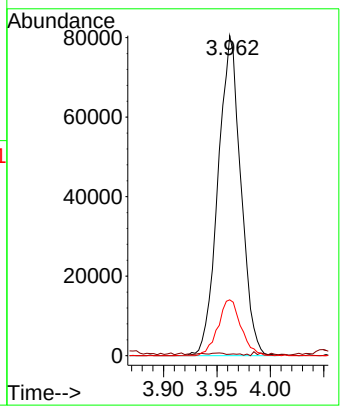


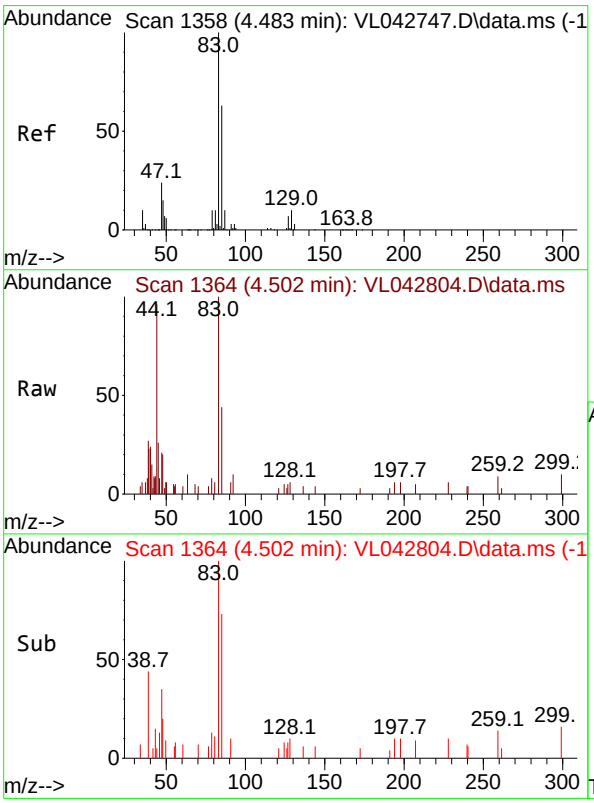
#39
1,2-Dichloropropane
Concen: 7.286 ppbv
RT: 3.962 min Scan# 11
Delta R.T. -0.350 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 63 Resp: 119723

Ion	Ratio	Lower	Upper
63	100		
41	0.0	68.2	102.4#
62	17.4	52.0	78.0#

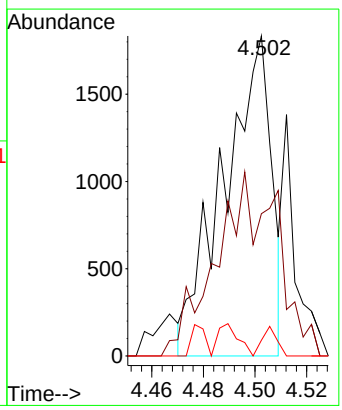


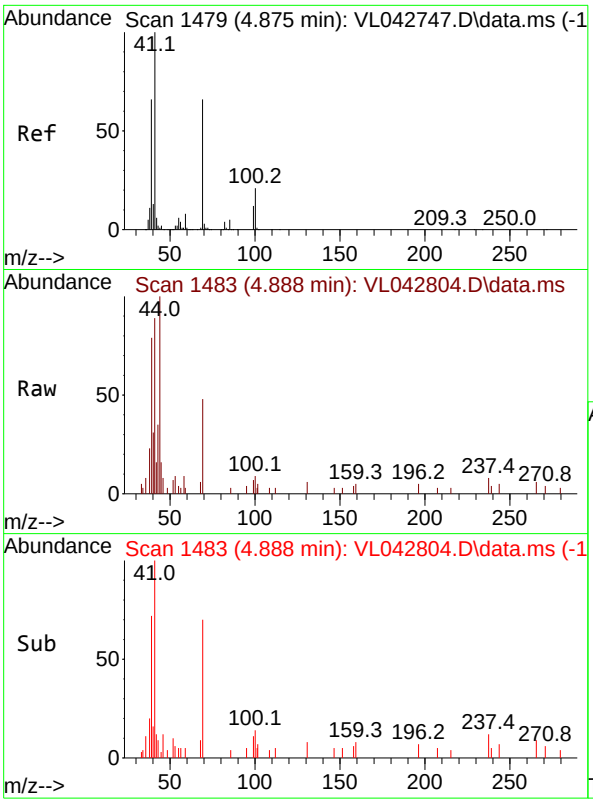


#42
Bromodichloromethane
Concen: 0.067 ppbv
RT: 4.502 min Scan# 1364
Delta R.T. 0.019 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 83 Resp: 2354

Ion	Ratio	Lower	Upper
83	100		
85	43.8	50.2	75.4#
127	5.5	5.4	8.2



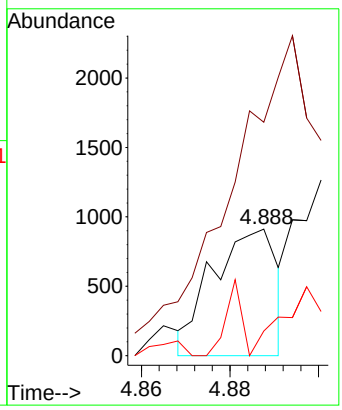


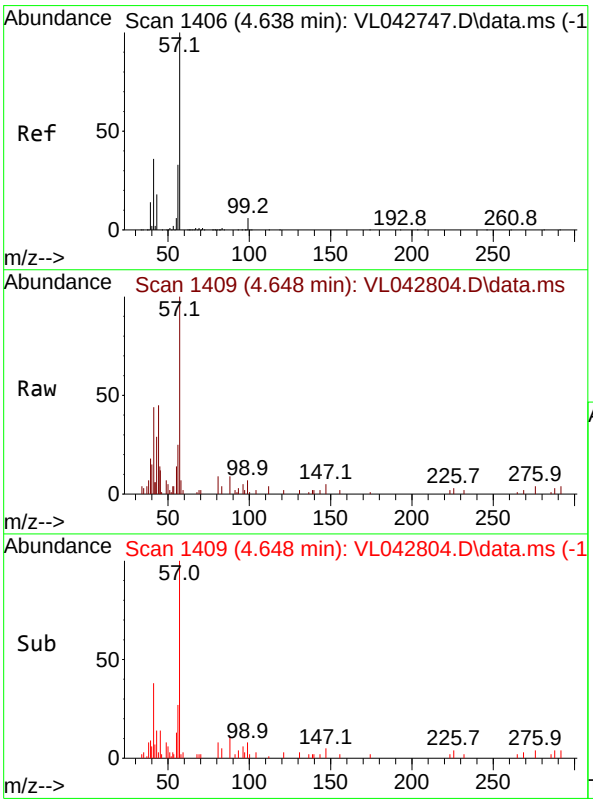
#43
Methyl Methacrylate
Concen: 0.058 ppbv
RT: 4.888 min Scan# 14
Delta R.T. 0.013 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 69 Resp: 914

Ion	Ratio	Lower	Upper
69	100		
41	464.1	125.7	188.5#
100	88.8	28.6	42.8#

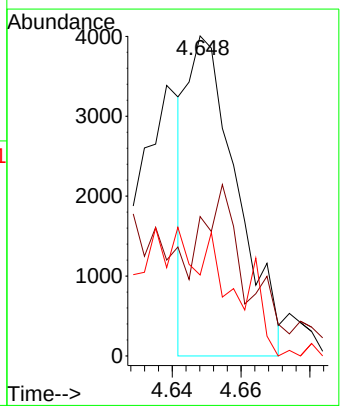


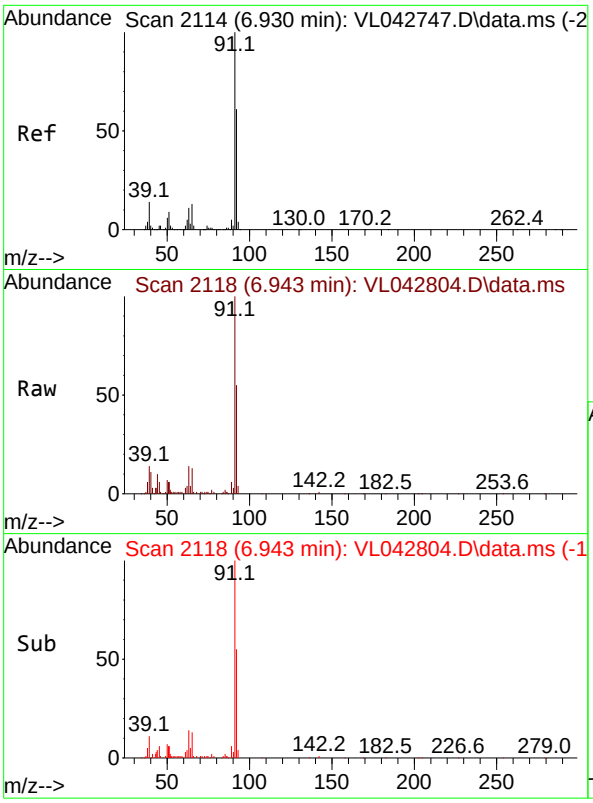


#44
2,2,4-Trimethylpentane
Concen: 0.055 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.010 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 57 Resp: 4005

Ion	Ratio	Lower	Upper
57	100		
41	108.4	28.3	42.5#
56	0.0	25.8	38.6#



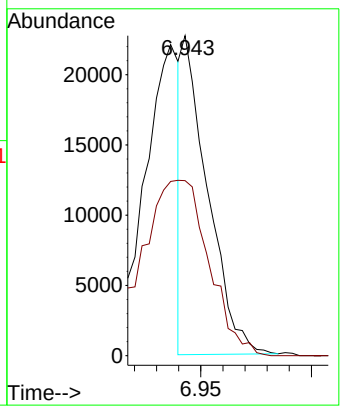


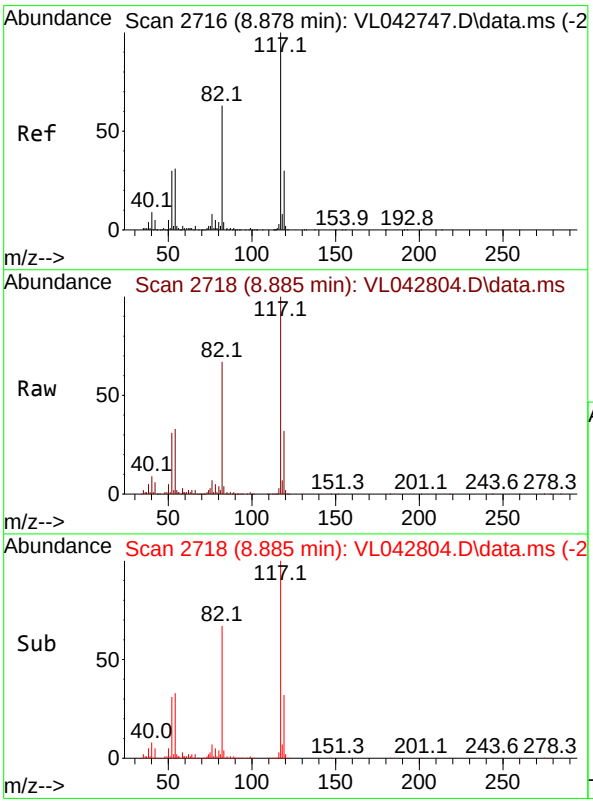
#53
Toluene
Concen: 0.382 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 91 Resp: 18258

Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.0	72.0#

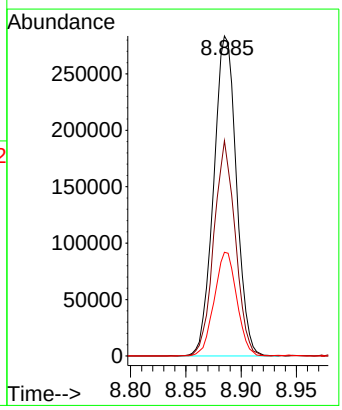


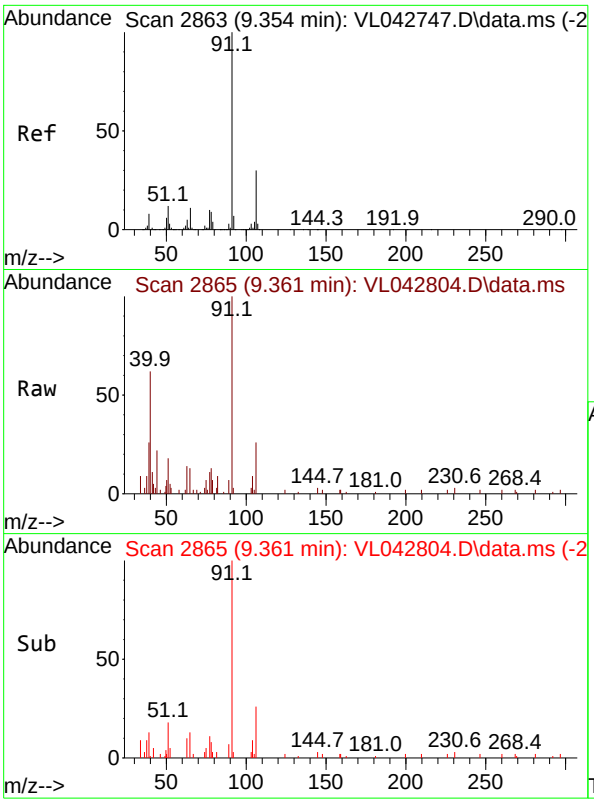


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:117 Resp: 406040

Ion	Ratio	Lower	Upper
117	100		
82	63.3	53.3	79.9
119	32.1	25.8	38.6



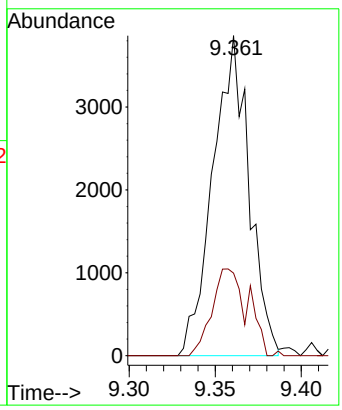


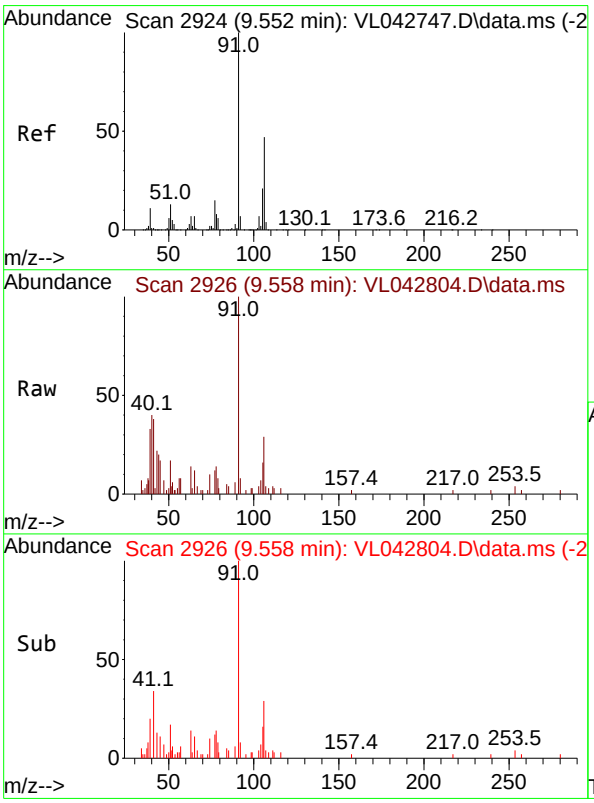
#58
Ethyl Benzene
Concen: 0.088 ppbv
RT: 9.361 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 91 Resp: 5636

Ion	Ratio	Lower	Upper
91	100		
106	25.8	23.8	35.6

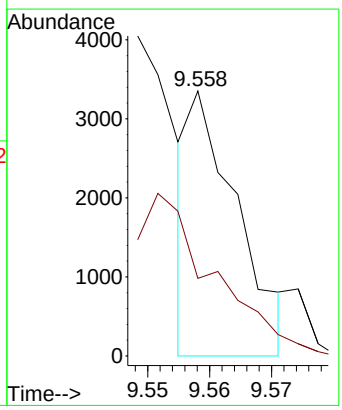


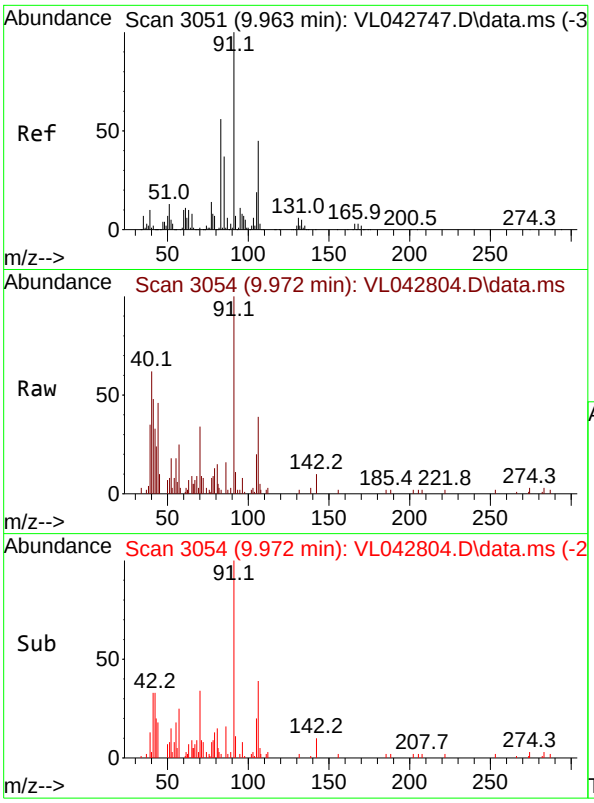


#59
m/p-Xylene
Concen: 0.036 ppbv
RT: 9.558 min Scan# 2926
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 91 Resp: 1820

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#



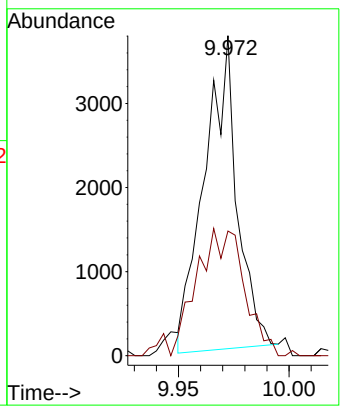


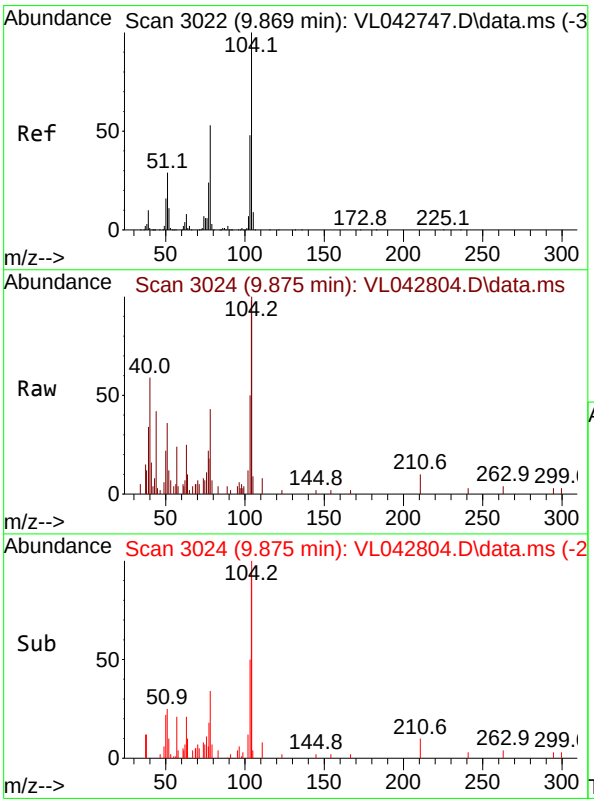
#60
o-Xylene
Concen: 0.075 ppbv
RT: 9.972 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 91 Resp: 3823

Ion	Ratio	Lower	Upper
91	100		
106	61.4	22.0	66.0

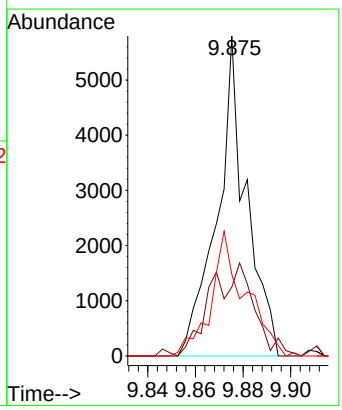


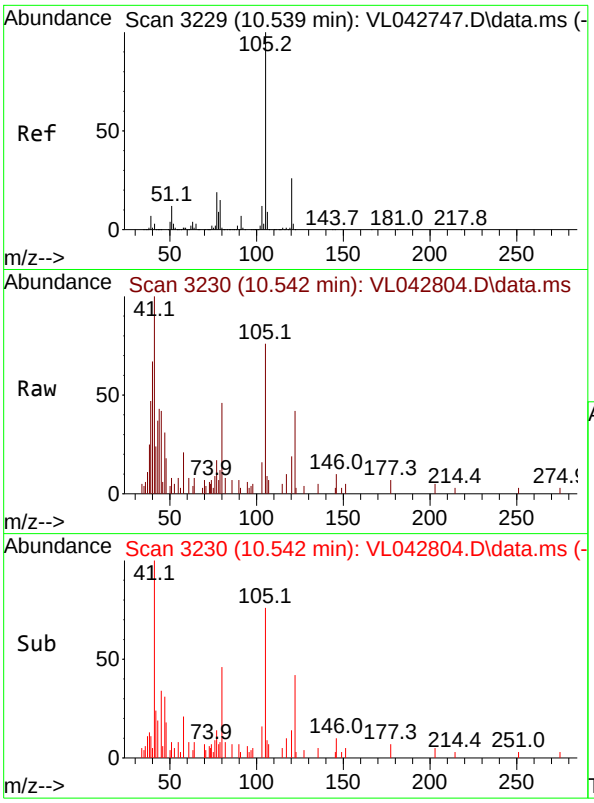


#61
Styrene
Concen: 0.228 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:104 Resp: 4911

Ion	Ratio	Lower	Upper
104	100		
78	45.2	41.5	62.3
103	46.1	37.5	56.3



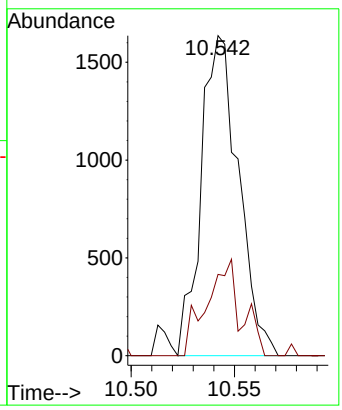


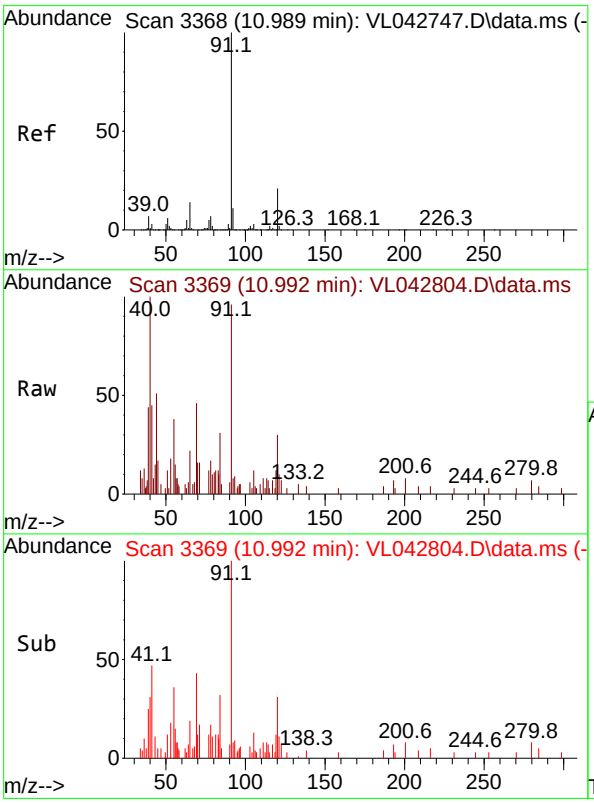
#62
Isopropylbenzene
Concen: 0.027 ppbv
RT: 10.542 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion:105 Resp: 2059

Ion	Ratio	Lower	Upper
105	100		
120	28.3	20.5	30.7

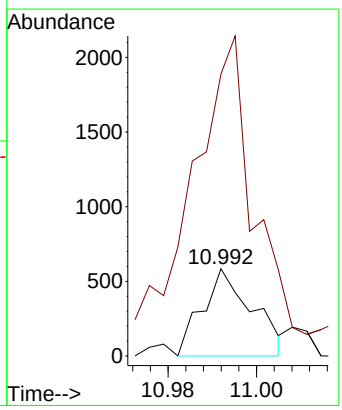


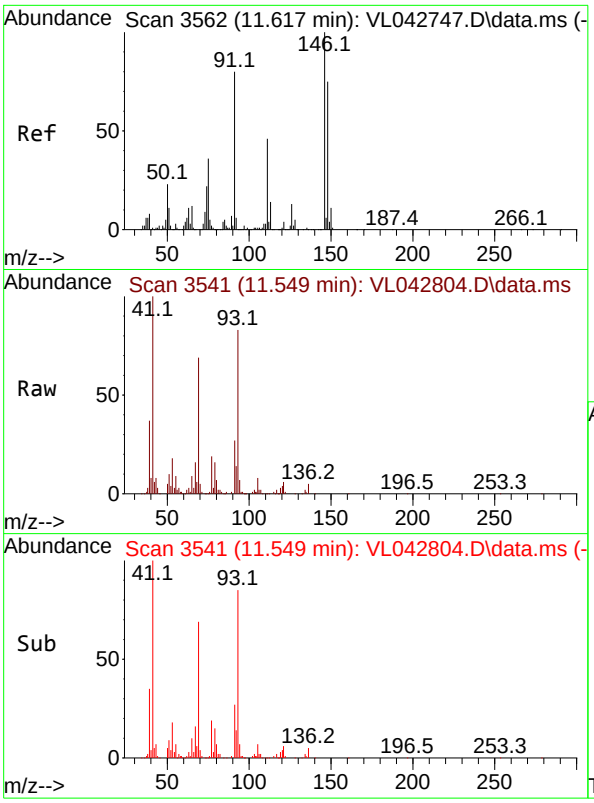


#64
n-propylbenzene
Concen: 0.023 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:120 Resp: 458

Ion	Ratio	Lower	Upper
120	100		
91	0.0	372.7	559.1#



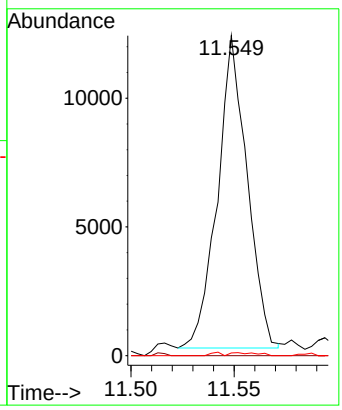


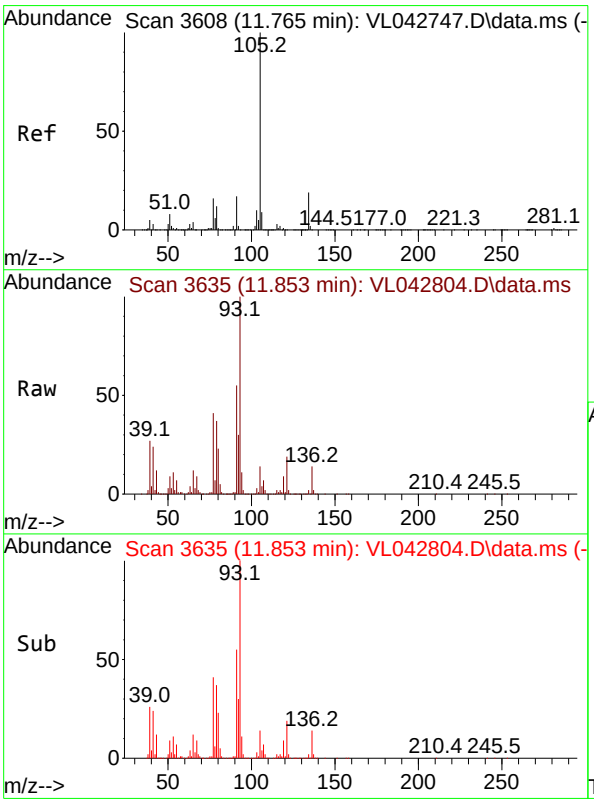
#66
Benzyl Chloride
Concen: 2.197 ppbv
RT: 11.549 min Scan# 3
Delta R.T. -0.068 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 91 Resp: 12100

Ion	Ratio	Lower	Upper
91	100		
126	0.3	14.4	21.6#
128	1.6	5.2	7.8#

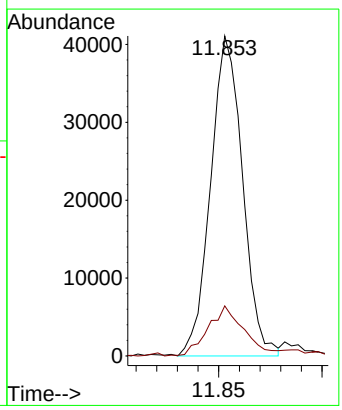


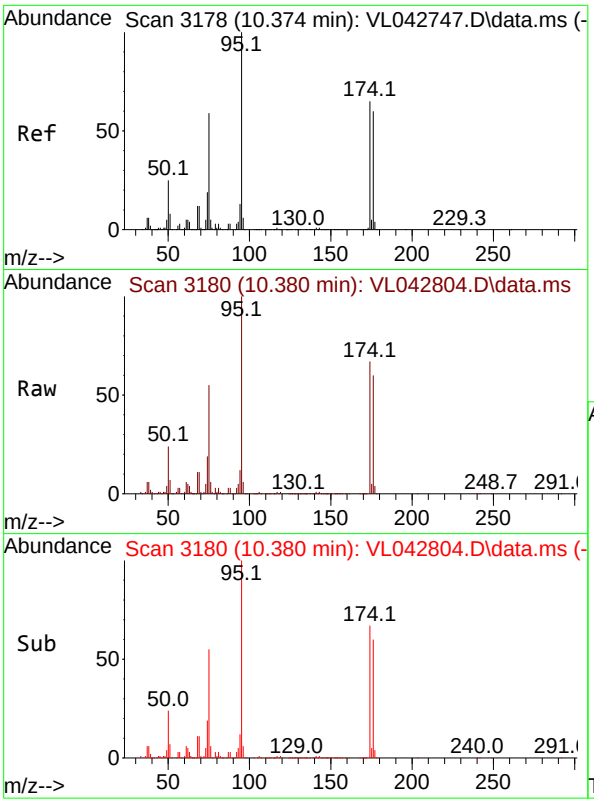


#67
sec-Butylbenzene
Concen: 0.463 ppbv
RT: 11.853 min Scan# 3635
Delta R.T. 0.087 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:105 Resp: 44174

Ion	Ratio	Lower	Upper
105	100		
134	19.9	15.5	23.3



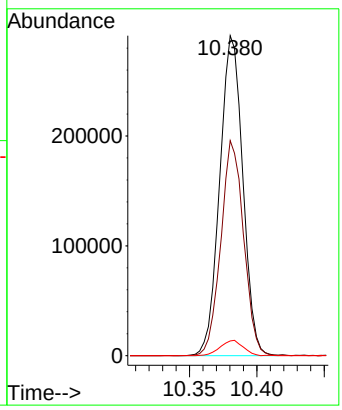


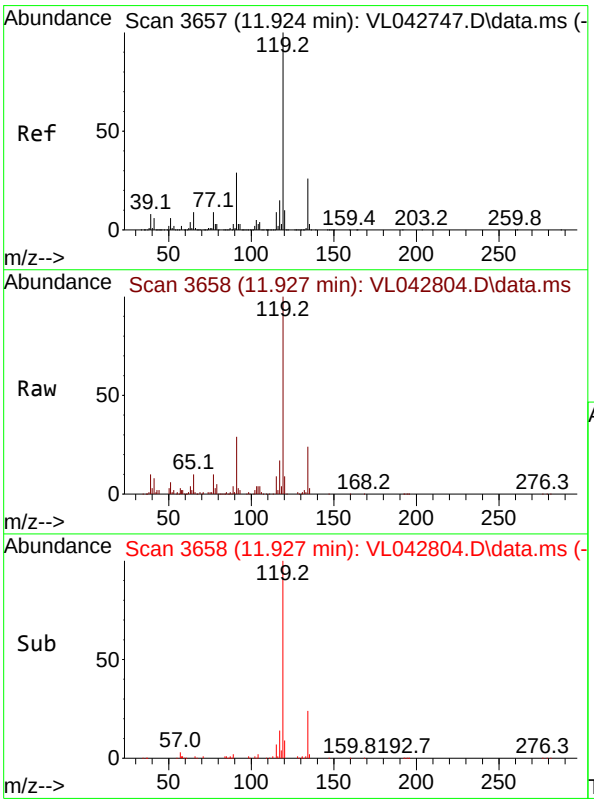
#68
1-Bromo-4-Fluorobenzene
Concen: 10.788 ppbv
RT: 10.380 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 95 Resp: 346897

Ion	Ratio	Lower	Upper
95	100		
174	66.4	53.8	80.6
175	4.8	4.0	6.0

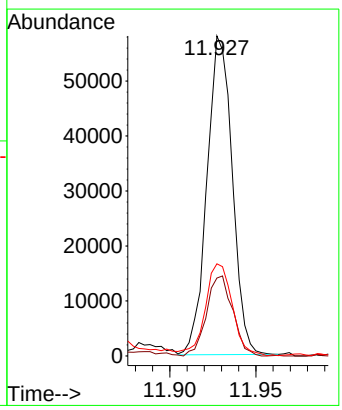


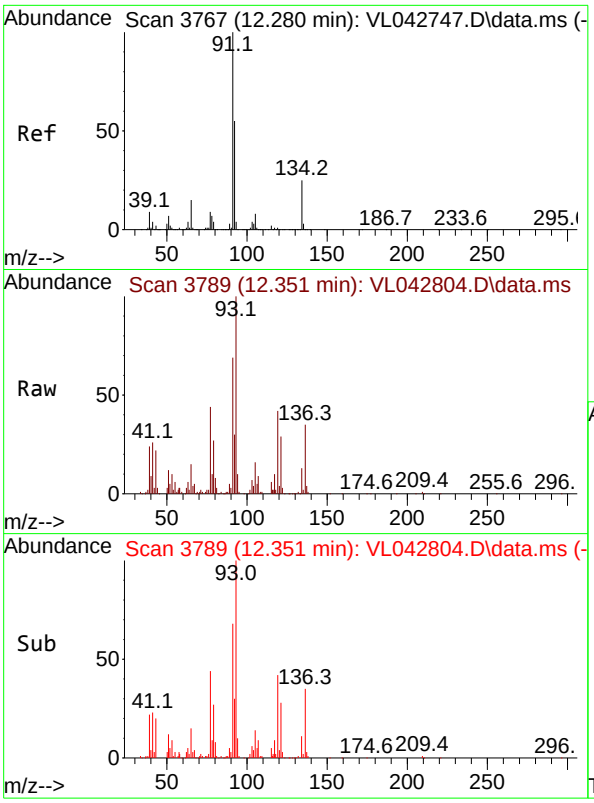


#69
p-Isopropyltoluene
Concen: 0.762 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:119 Resp: 59315

Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.6	31.0
91	31.7	23.2	34.8



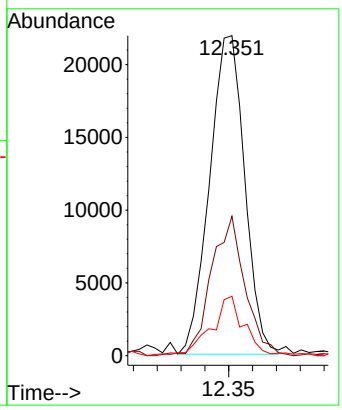


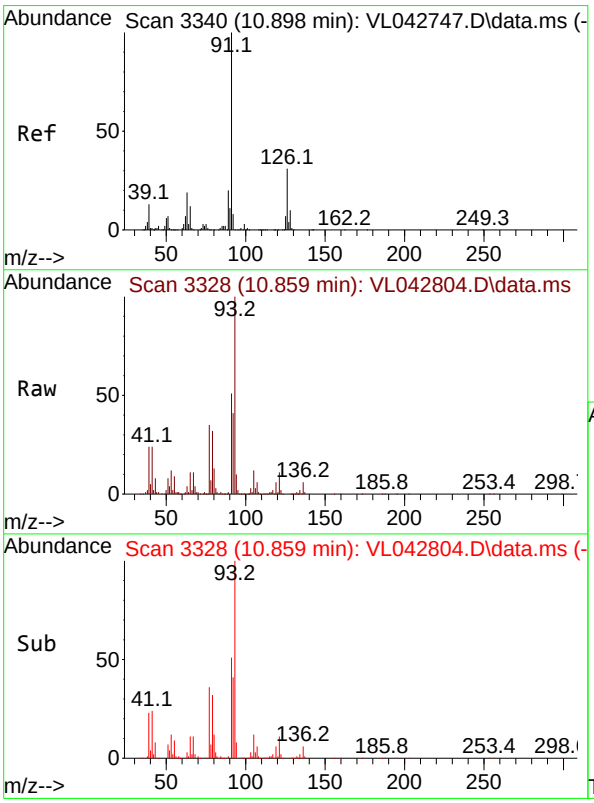
#70
n-Butylbenzene
Concen: 0.298 ppbv
RT: 12.351 min Scan# 3
Delta R.T. 0.071 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion: 91 Resp: 22421

Ion	Ratio	Lower	Upper
91	100		
92	42.5	43.4	65.2#
134	17.9	19.6	29.4#

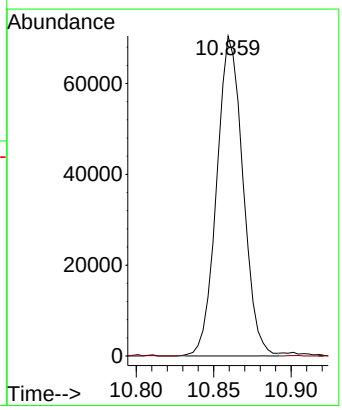


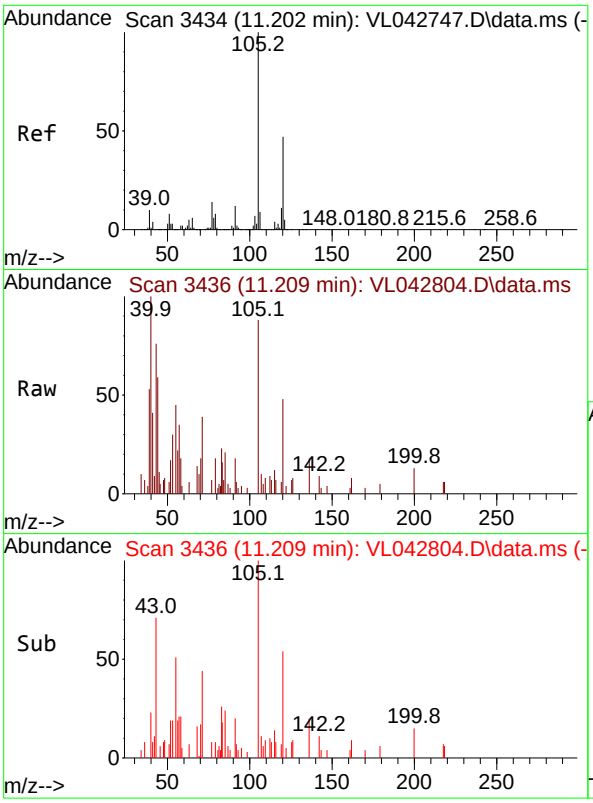


#71
2-Chlorotoluene
Concen: 1.434 ppbv
RT: 10.859 min Scan# 3328
Delta R.T. -0.039 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion: 91 Resp: 83071

Ion	Ratio	Lower	Upper
91	100		
126	0.1	12.0	48.2#



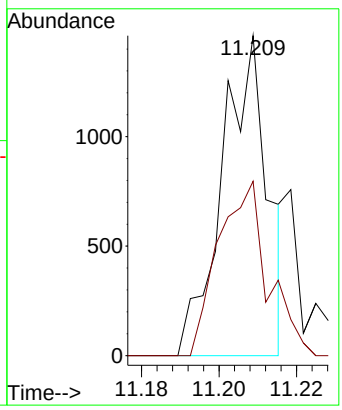


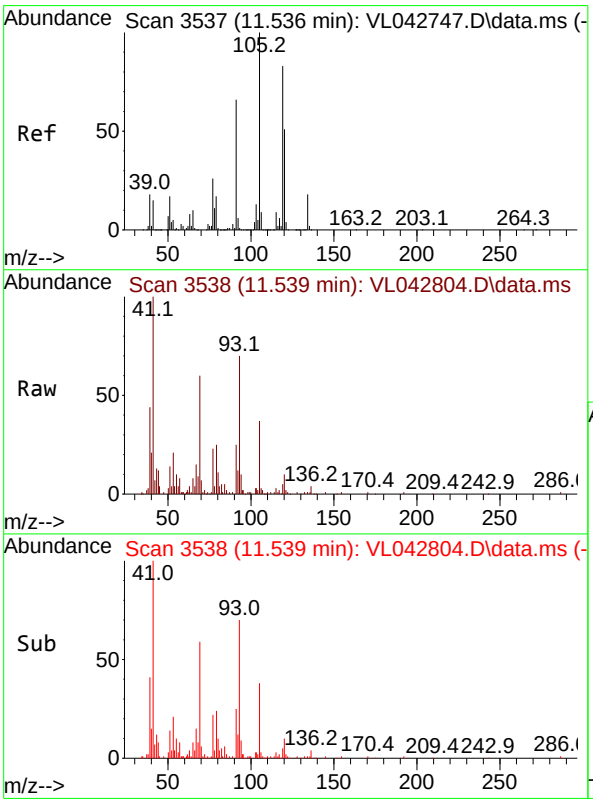
#73
1,3,5-Trimethylbenzene
Concen: 0.024 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion:105 Resp: 1195

Ion	Ratio	Lower	Upper
105	100		
120	54.5	37.8	56.8

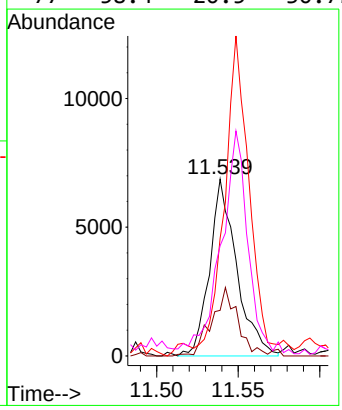


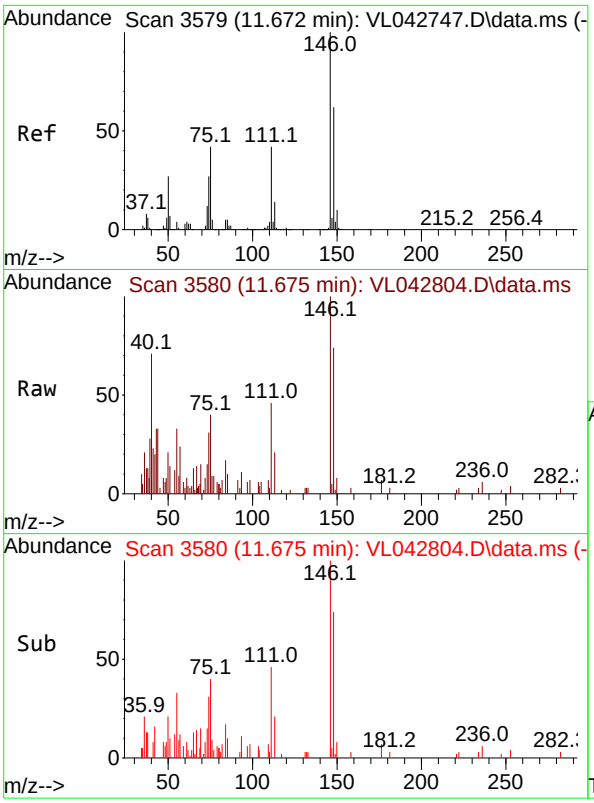


#74
1,2,4-Trimethylbenzene
Concen: 0.144 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:105 Resp: 7912

Ion	Ratio	Lower	Upper
105	100		
120	24.8	40.8	61.2#
91	60.1	53.0	79.4
77	58.4	20.5	30.7#



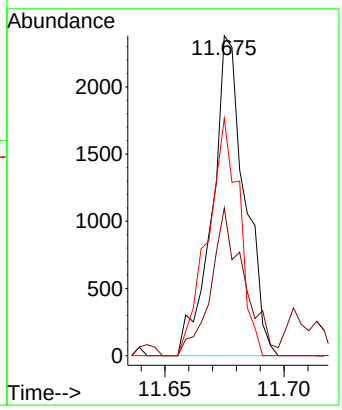


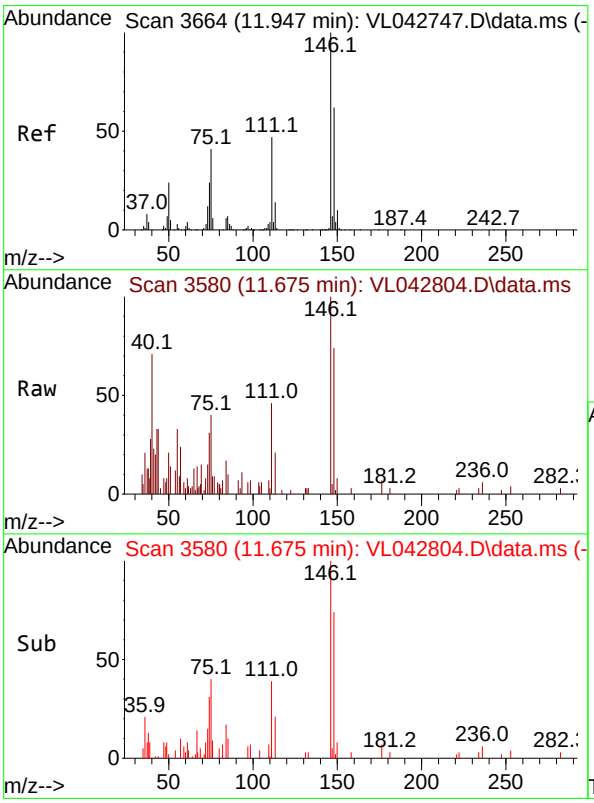
#76
1,4-Dichlorobenzene
Concen: 0.060 ppbv
RT: 11.675 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion:146 Resp: 2258

Ion	Ratio	Lower	Upper
146	100		
111	59.3	21.4	64.2
148	72.3	32.1	96.3

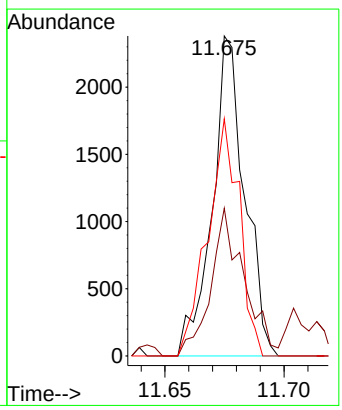


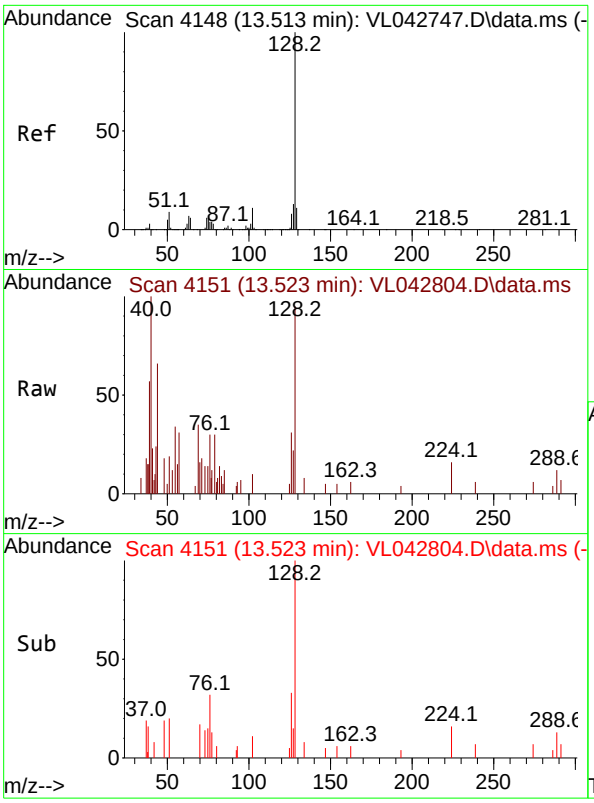


#77
1,2-Dichlorobenzene
Concen: 0.060 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.272 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:146 Resp: 2258

Ion	Ratio	Lower	Upper
146	100		
111	47.2	23.7	71.1
148	72.3	32.6	97.7



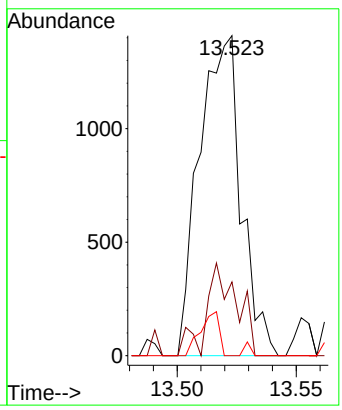


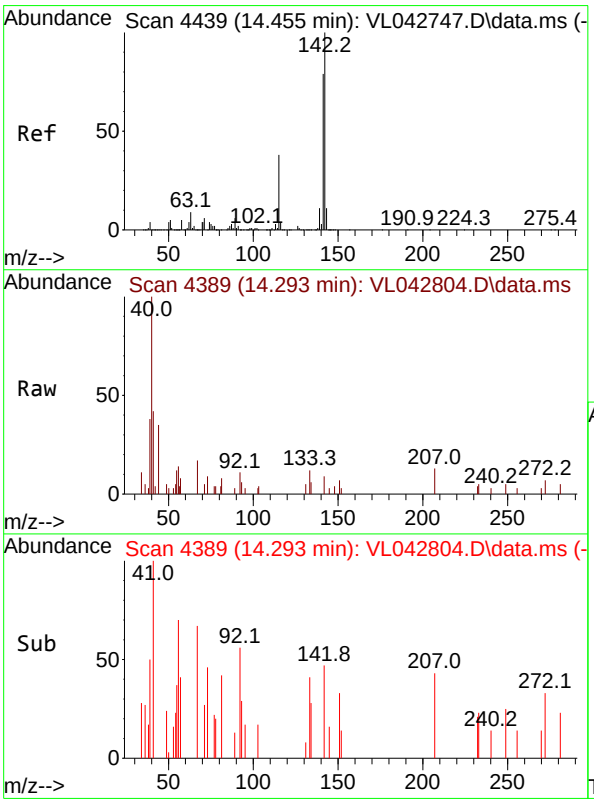
#79
Naphthalene
Concen: 0.463 ppbv
RT: 13.523 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion:128 Resp: 1719

Ion	Ratio	Lower	Upper
128	100		
127	23.1	10.5	15.7#
129	0.0	8.6	13.0#

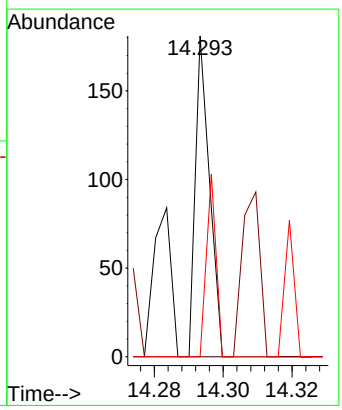


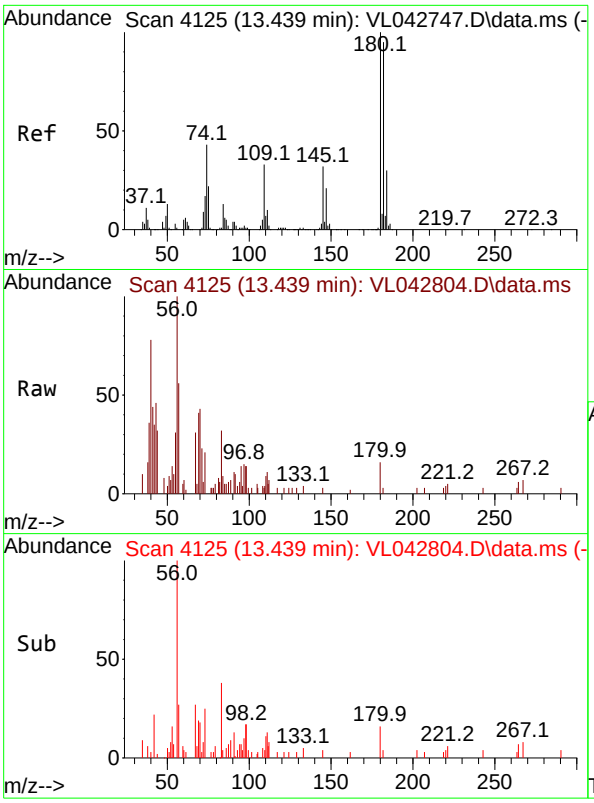


#80
Naphthalene,2-methyl-
Concen: 1.130 ppbv
RT: 14.293 min Scan# 4389
Delta R.T. -0.162 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Tgt Ion:142 Resp: 51

Ion	Ratio	Lower	Upper
142	100		
141	66.7	65.8	98.8
115	39.2	31.2	46.8



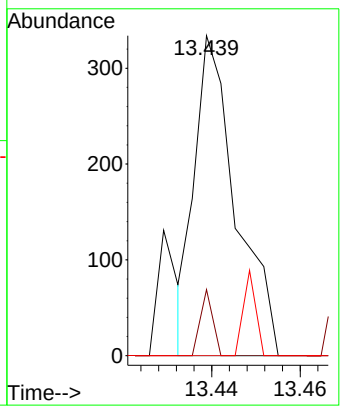


#81
1,2,4-Trichlorobenzene
Concen: 0.441 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042804.D
Acq: 04 Aug 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6

Tgt Ion:180 Resp: 218

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	0.0	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042805.D
Acq On : 04 Aug 2025 15:10
Operator : SY/MD
Sample : Q2750-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Quant Time: Aug 05 01:06:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	163694	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	467931	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	403577	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	336326	10.523	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	12549	0.580	ppbv		97
3) Chlorodifluoromethane	1.473	51	1482669	52.589	ppbv	#	87
4) Chloromethane	1.531	50	6460	0.738	ppbv		98
5) Vinyl Chloride	1.486	62	1346	0.156	ppbv	#	44
6) Bromomethane	1.664	94	133	0.040	ppbv	#	5
7) Chloroethane	1.706	64	229	0.069	ppbv	#	21
8) Dichlorotetrafluoroethane	1.496	85	12549	0.705	ppbv	#	20
9) Propene	1.557	41	601491	58.700	ppbv		96
10) Heptane	4.988	43	2325	0.084	ppbv	#	59
11) Trichlorofluoromethane	1.499	101	1064	0.048	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.136	101	1452	0.086	ppbv		92
13) Ethanol	1.729	45	4402737	5899.855	ppbv		93
15) Acetone	1.835	43	2230155	98.664	ppbv	#	80
16) 1,3-Butadiene	1.557	39	294928	30.590	ppbv	#	16
17) tert-Butyl alcohol	1.981	59	7803221	382.772	ppbv		96
19) Isopropyl Alcohol	1.942	45	14576391	1213.505	ppbv	#	47
20) Methylene Chloride	2.065	84	15760	2.213	ppbv		97
21) Allyl Chloride	1.981	41	12438821	892.893	ppbv	#	78
23) Vinyl Acetate	2.463	43	30783	1.123	ppbv	#	90
25) Ethyl Acetate	2.842	43	220242	4.402	ppbv	#	85
26) Hexane	2.826	57	40934	1.865	ppbv	#	1
27) Carbon Disulfide	2.149	76	53193	2.831	ppbv	#	66
29) Chloroform	2.852	83	19399	0.572	ppbv		85
30) Cyclohexane	3.862	84	1045	0.056	ppbv	#	1
31) cis-1,2-Dichloroethene	2.845	61	21971	0.974	ppbv	#	23
34) 2-Butanone	2.567	43	32492	0.980	ppbv		97
35) Carbon Tetrachloride	3.761	117	1365	0.039	ppbv		93
36) Benzene	3.654	78	12134	0.274	ppbv	#	95
39) 1,2-Dichloropropane	3.959	63	116251	7.102	ppbv	#	21
41) Tetrahydrofuran	3.078	42	2570	0.152	ppbv	#	72
42) Bromodichloromethane	4.489	83	820	0.024	ppbv	#	50
43) Methyl Methacrylate	4.884	69	645	0.041	ppbv	#	1
53) Toluene	6.933	91	33005	0.693	ppbv		100
58) Ethyl Benzene	9.357	91	4460	0.070	ppbv		90
59) m/p-Xylene	9.529	91	10128	0.199	ppbv		100
60) o-Xylene	9.969	91	3671	0.072	ppbv		92
61) Styrene	9.872	104	3389	0.158	ppbv	#	86
66) Benzyl Chloride	11.555	91	1735	0.317	ppbv	#	67
69) p-Isopropyltoluene	11.927	119	43073	0.557	ppbv		97
70) n-Butylbenzene	12.348	91	13039	0.175	ppbv	#	86
71) 2-Chlorotoluene	10.859	91	62538	1.086	ppbv	#	45
72) 4-Ethyltoluene	11.125	105	1510	0.025	ppbv	#	55
74) 1,2,4-Trimethylbenzene	11.536	105	5892	0.108	ppbv	#	83

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042805.D
Acq On : 04 Aug 2025 15:10
Operator : SY/MD
Sample : Q2750-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Quant Time: Aug 05 01:06:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

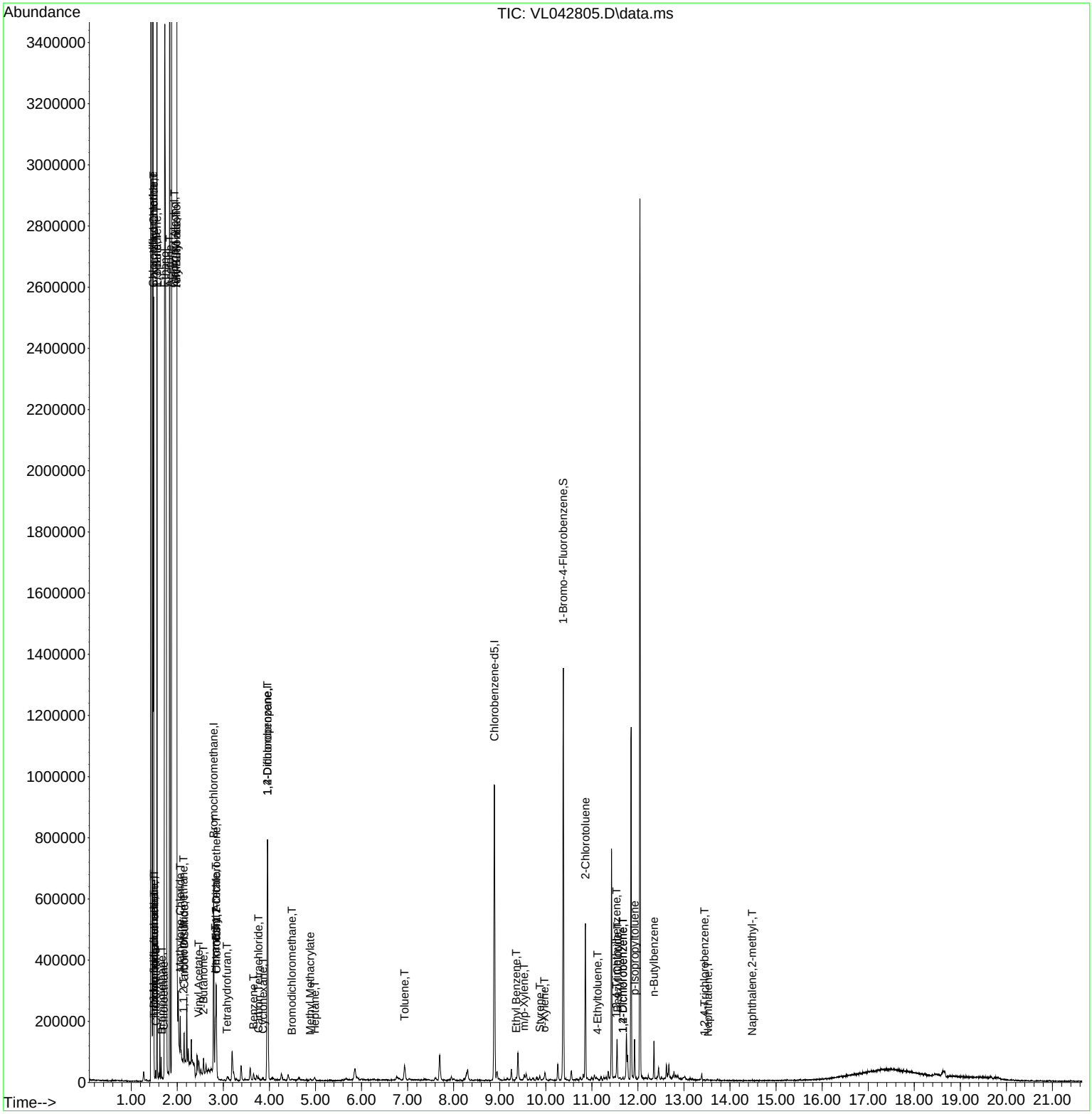
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76) 1,4-Dichlorobenzene	11.675	146	1848	0.049	ppbv		85
77) 1,2-Dichlorobenzene	11.675	146	1848	0.049	ppbv		96
79) Naphthalene	13.526	128	191	0.438	ppbv	#	69
80) Naphthalene,2-methyl-	14.481	142	72	1.131	ppbv	#	42
81) 1,2,4-Trichlorobenzene	13.445	180	75	0.437	ppbv	#	36

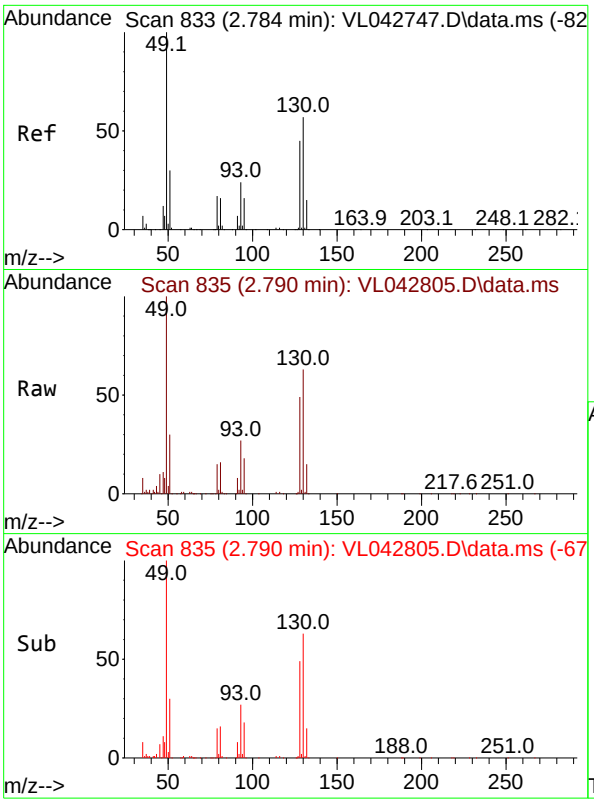
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042805.D
Acq On : 04 Aug 2025 15:10
Operator : SY/MD
Sample : Q2750-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Quant Time: Aug 05 01:06:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



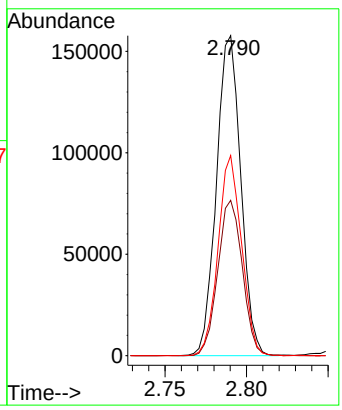


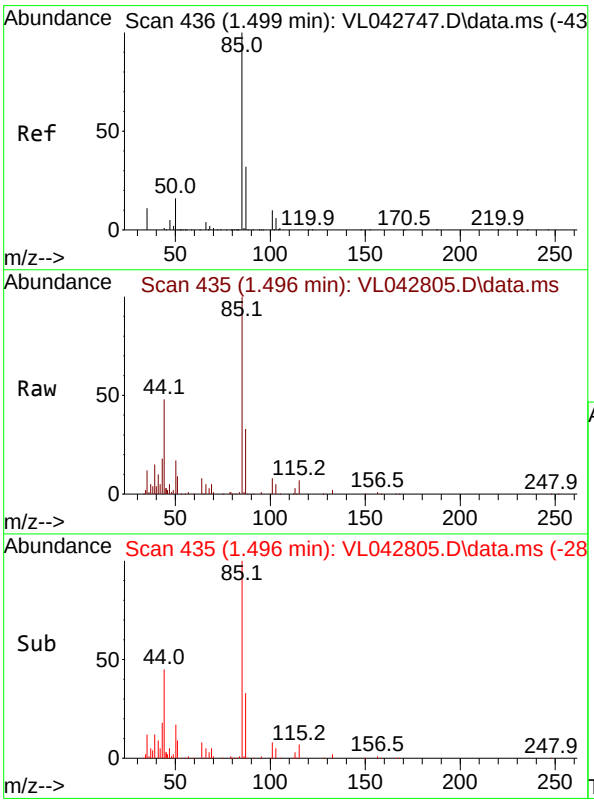
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 49 Resp: 163694

Ion	Ratio	Lower	Upper
49	100		
128	49.0	23.6	71.0
130	60.2	30.3	90.8

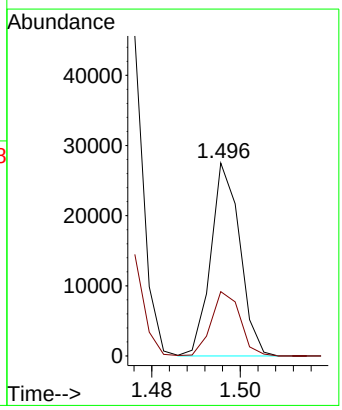


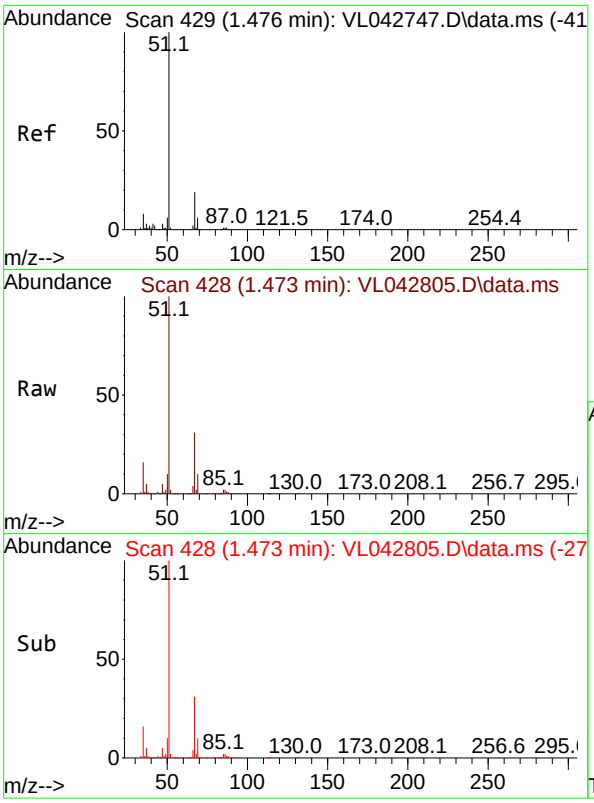


#2
Dichlorodifluoromethane
Concen: 0.580 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 85 Resp: 12549

Ion	Ratio	Lower	Upper
85	100		
87	33.3	25.4	38.2



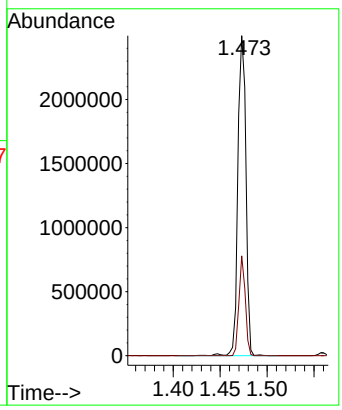


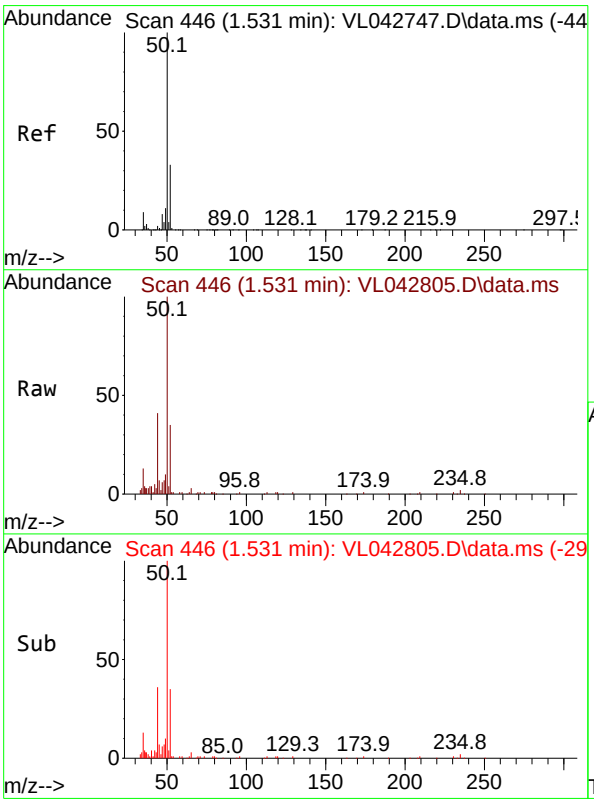
#3
Chlorodifluoromethane
Concen: 52.589 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 51 Resp: 1482669

Ion	Ratio	Lower	Upper
51	100		
67	24.7	15.0	22.6#

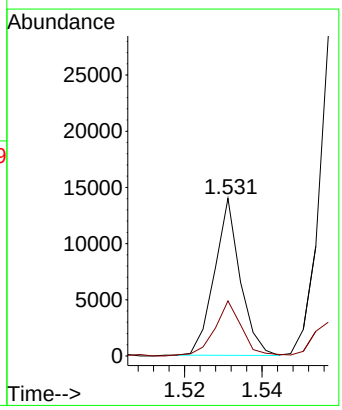


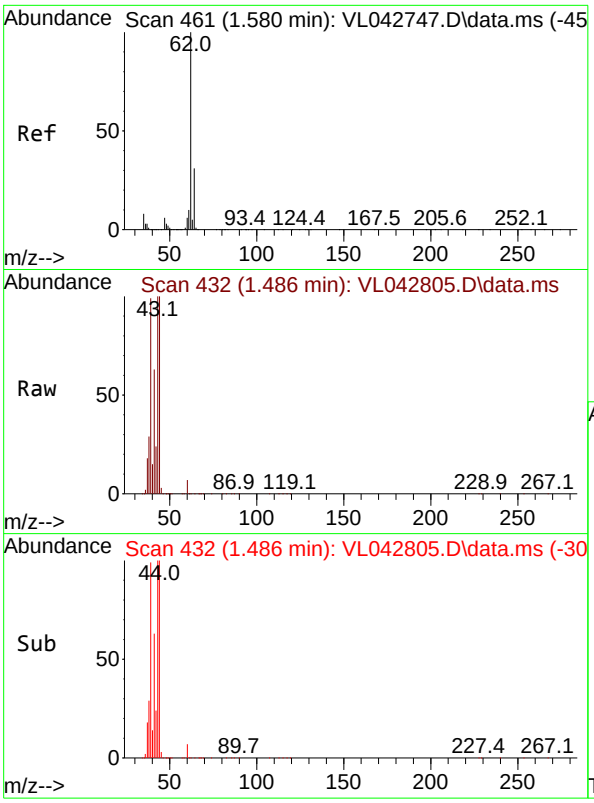


#4
Chloromethane
Concen: 0.738 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 50 Resp: 6460

Ion	Ratio	Lower	Upper
50	100		
52	34.3	26.6	40.0



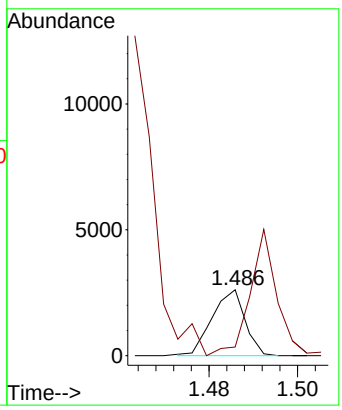


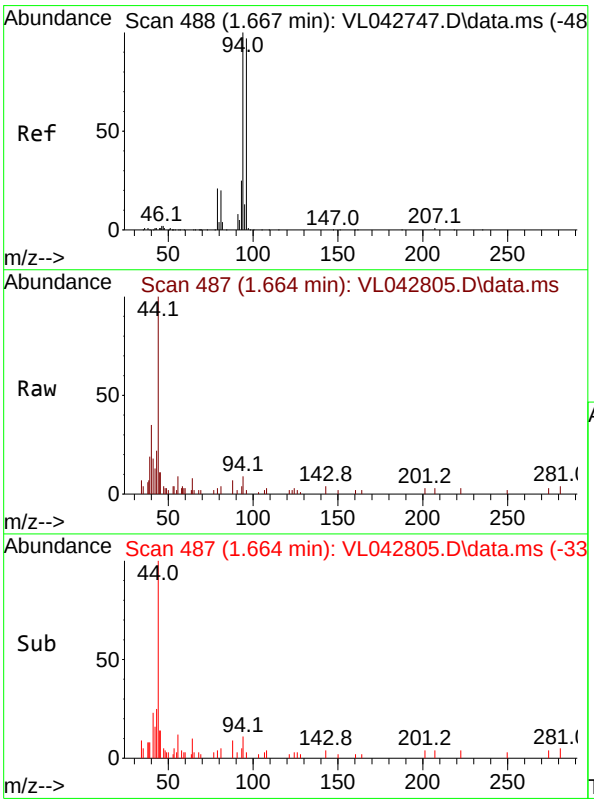
#5
Vinyl Chloride
Concen: 0.156 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.094 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 62 Resp: 1346

Ion	Ratio	Lower	Upper
62	100		
64	0.0	24.5	36.7#

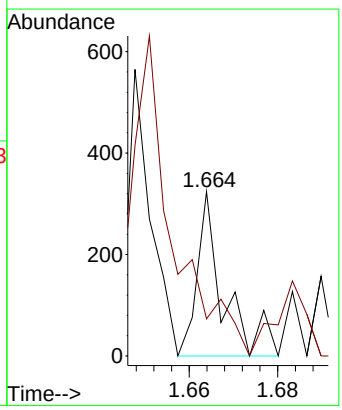


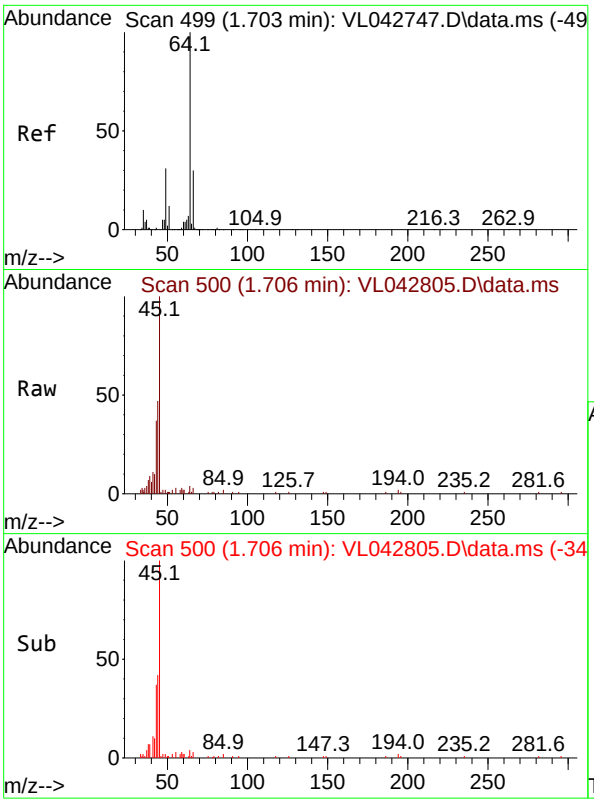


#6
Bromomethane
Concen: 0.040 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 94 Resp: 133

Ion	Ratio	Lower	Upper
94	100		
96	3.7	77.6	116.4#



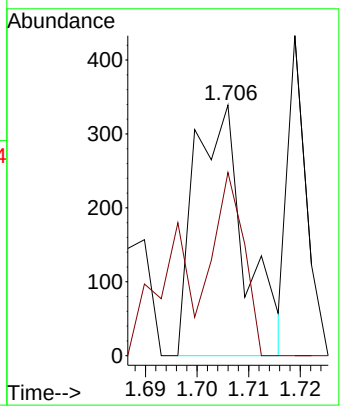


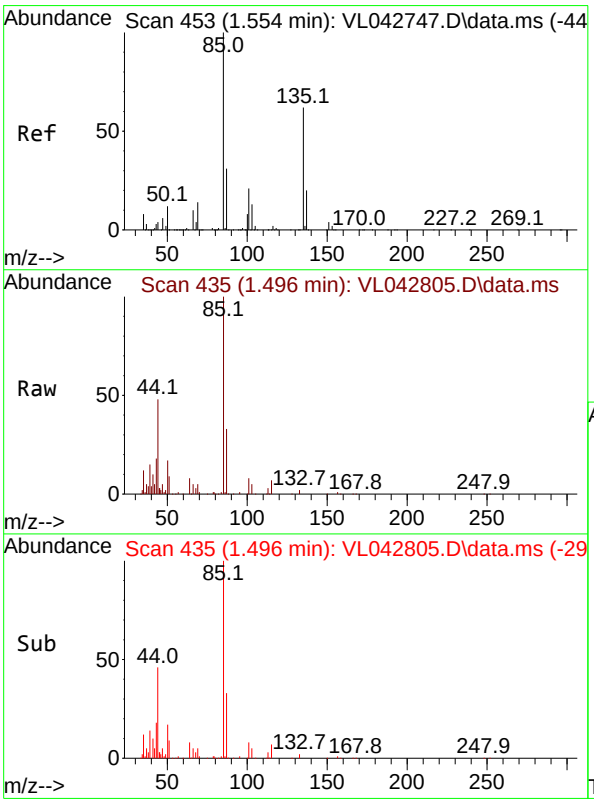
#7
Chloroethane
Concen: 0.069 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 64 Resp: 229

Ion	Ratio	Lower	Upper
64	100		
66	73.2	24.1	36.1#

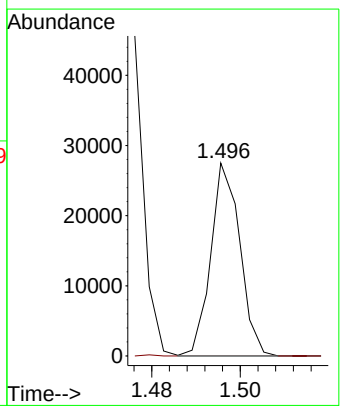


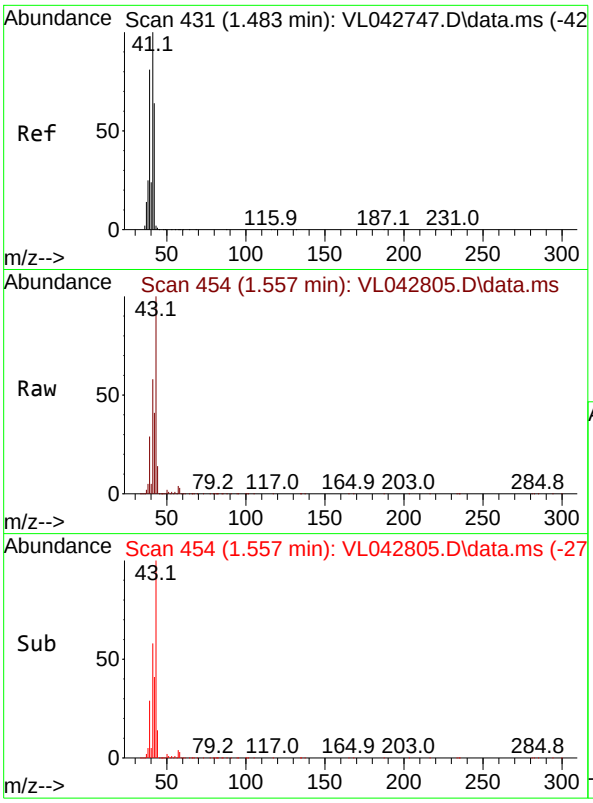


#8
Dichlorotetrafluoroethane
Concen: 0.705 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.058 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 85 Resp: 12549

Ion	Ratio	Lower	Upper
85	100		
135	1.3	50.6	76.0#



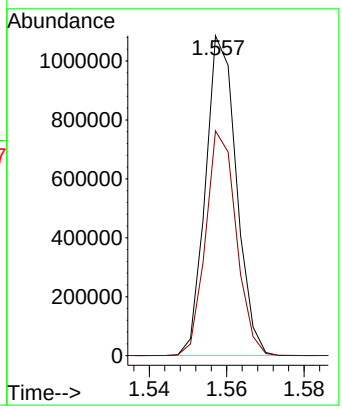


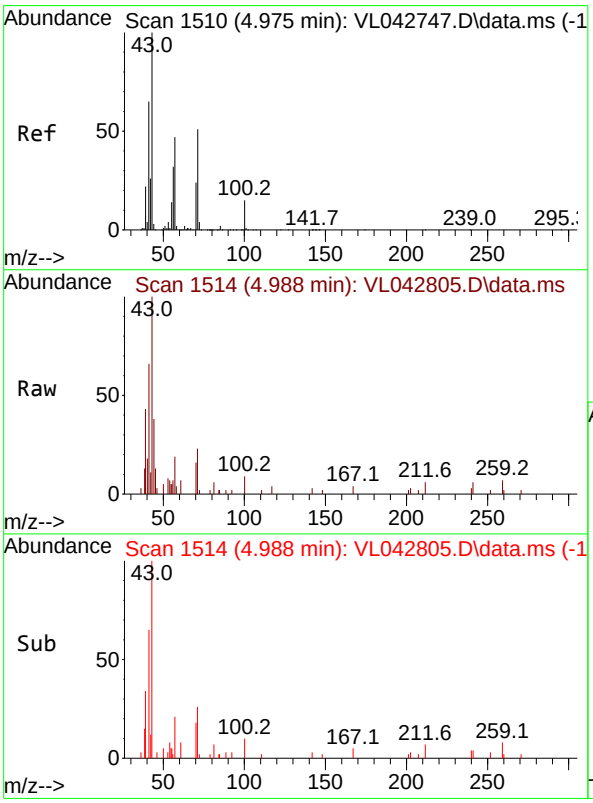
#9
Propene
Concen: 58.700 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.074 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 41 Resp: 601491

Ion	Ratio	Lower	Upper
41	100		
42	69.8	53.2	79.8

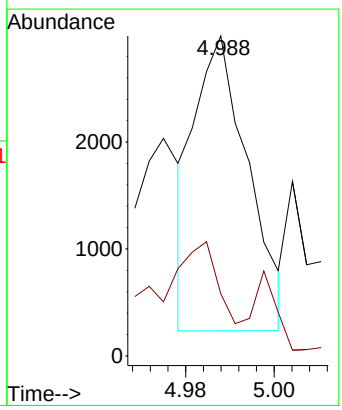


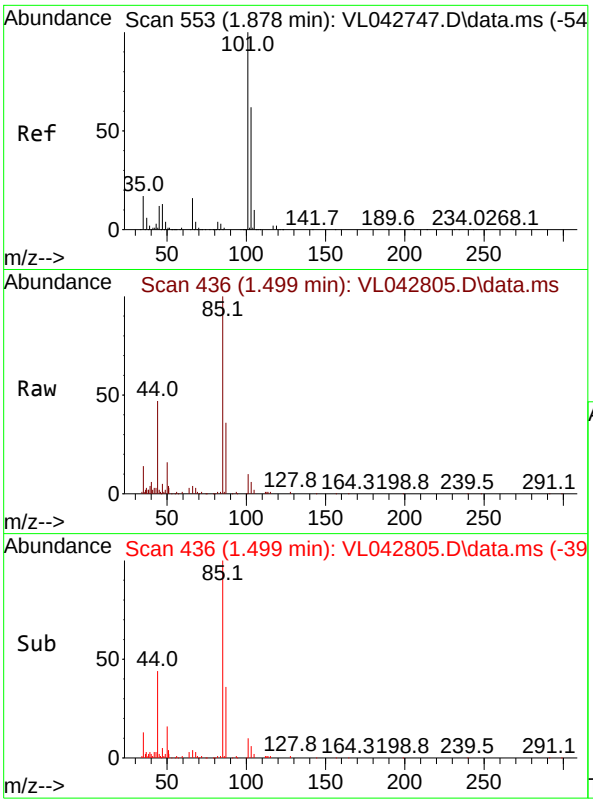


#10
Heptane
Concen: 0.084 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.013 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 43 Resp: 2325

Ion	Ratio	Lower	Upper
43	100		
57	78.1	39.9	59.9#



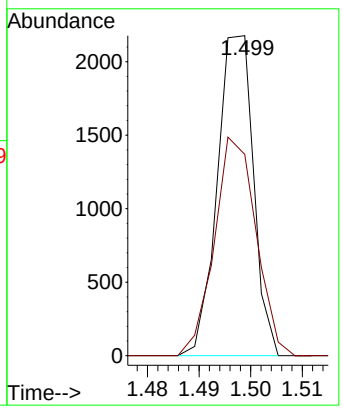


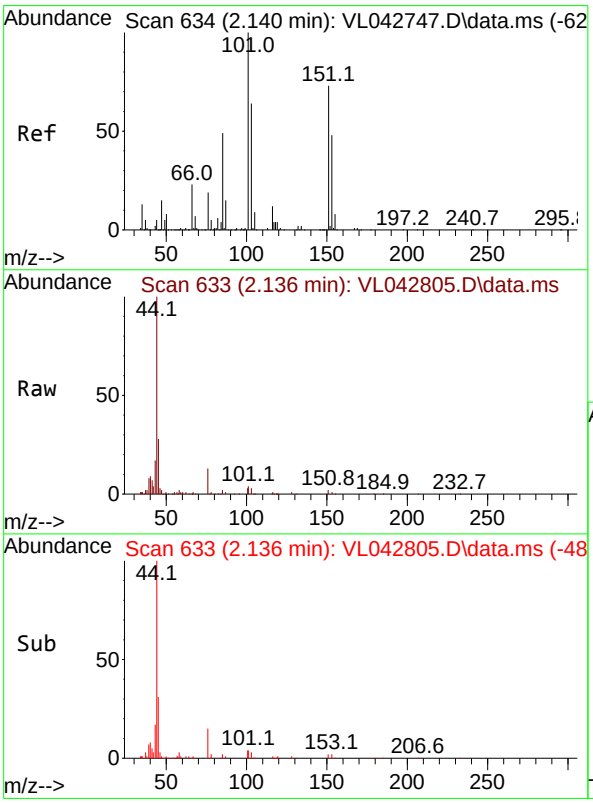
#11
Trichlorofluoromethane
Concen: 0.048 ppbv
RT: 1.499 min Scan# 4
Delta R.T. -0.379 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion:101 Resp: 1064

Ion	Ratio	Lower	Upper
101	100		
103	62.9	49.6	74.4

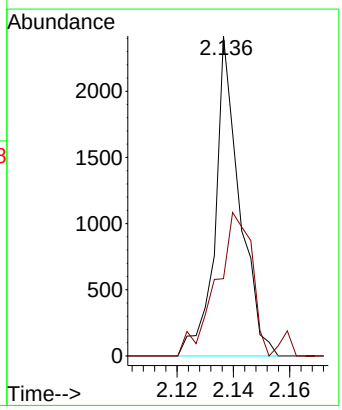


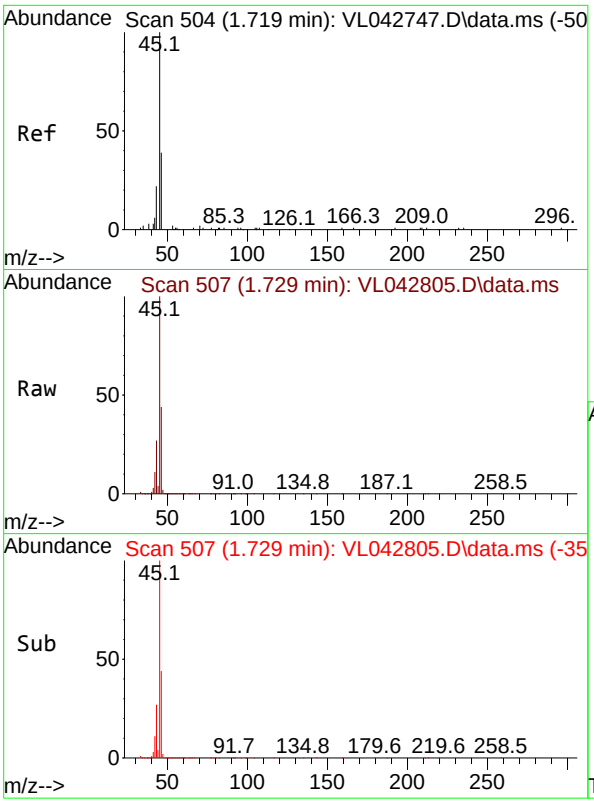


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.086 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion:101 Resp: 1452

Ion	Ratio	Lower	Upper
101	100		
151	68.7	60.5	90.7



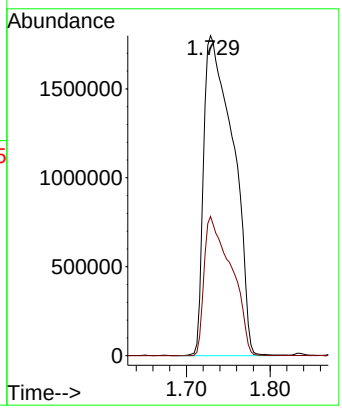


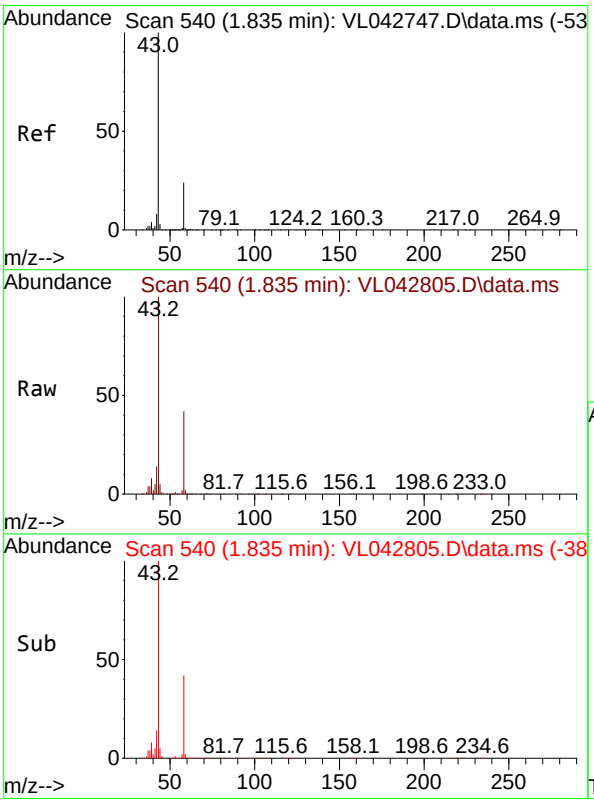
#13
Ethanol
Concen: 5899.855 ppbv
RT: 1.729 min Scan# 5
Delta R.T. 0.010 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 45 Resp: 4402737

Ion	Ratio	Lower	Upper
45	100		
46	40.3	17.8	71.4

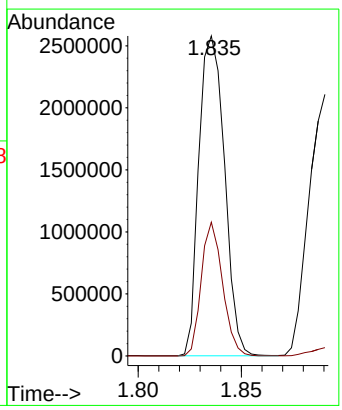


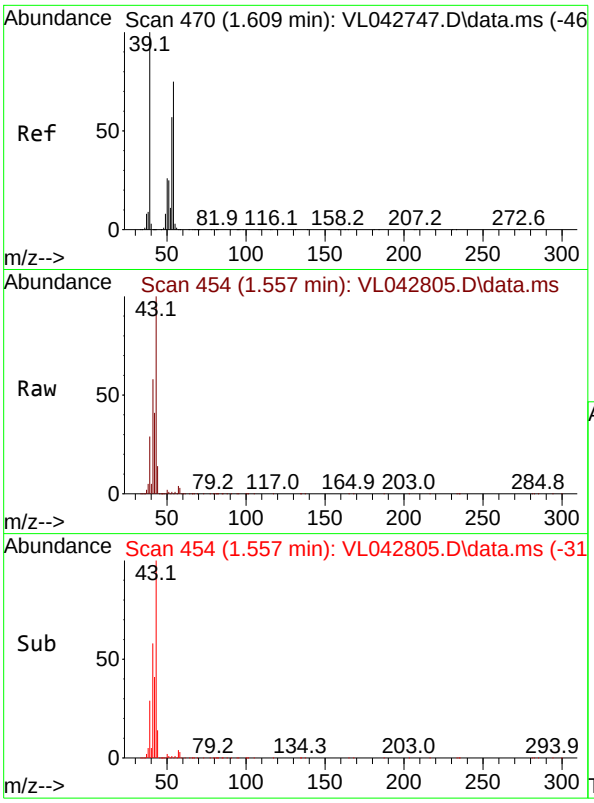


#15
Acetone
Concen: 98.664 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 43 Resp: 2230155

Ion	Ratio	Lower	Upper
43	100		
58	34.7	19.8	29.8#



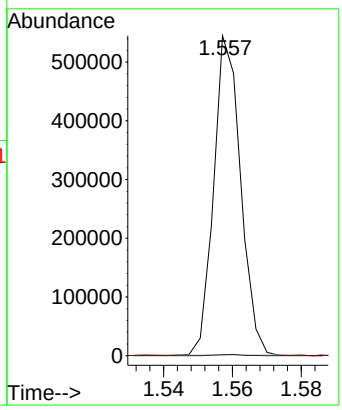


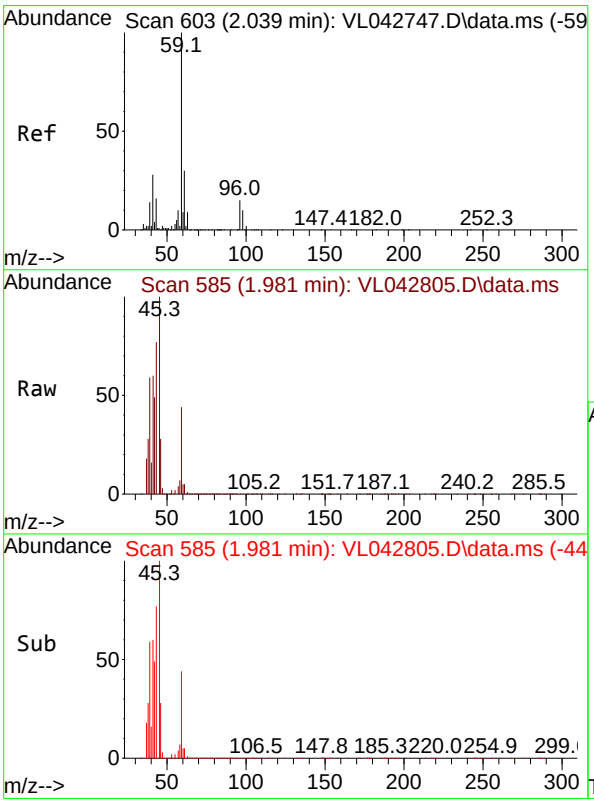
#16
1,3-Butadiene
Concen: 30.590 ppbv
RT: 1.557 min Scan# 4
Delta R.T. -0.052 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 39 Resp: 294928

Ion	Ratio	Lower	Upper
39	100		
54	0.4	54.5	81.7#

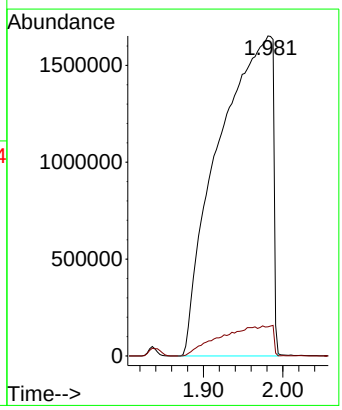


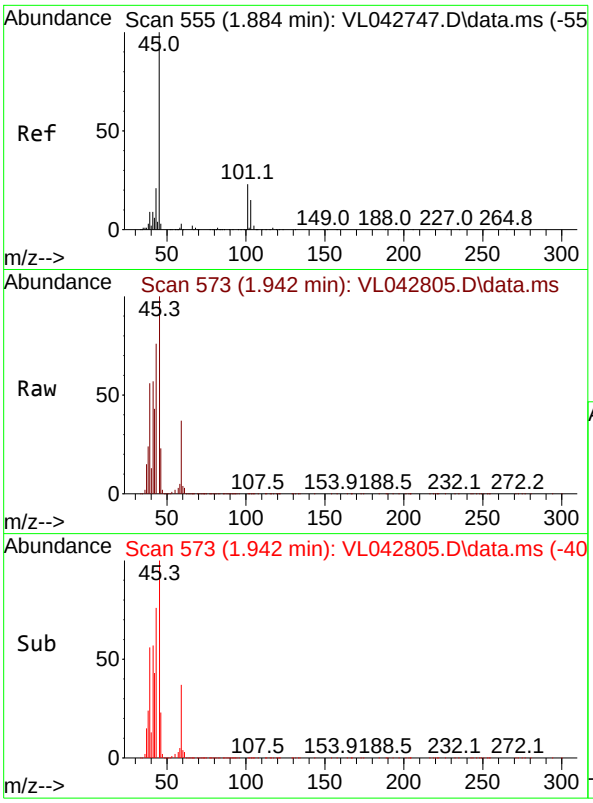


#17
tert-Butyl alcohol
Concen: 382.772 ppbv
RT: 1.981 min Scan# 585
Delta R.T. -0.058 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 59 Resp: 7803221

Ion	Ratio	Lower	Upper
59	100		
57	9.1	8.3	12.5



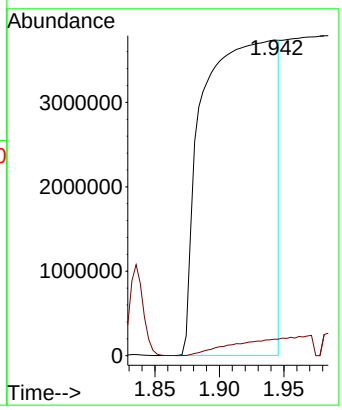


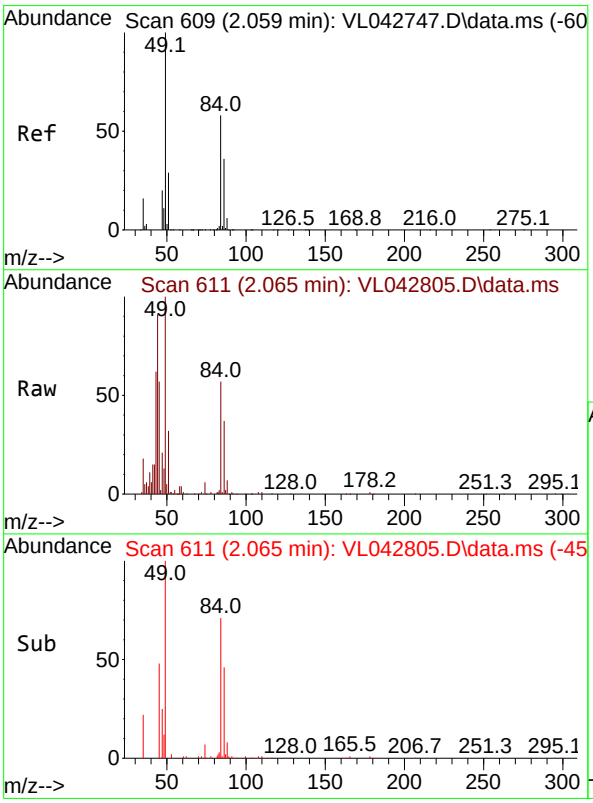
#19
Isopropyl Alcohol
Concen: 1213.505 ppbv
RT: 1.942 min Scan# 5
Delta R.T. 0.058 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 45 Resp:14576391

Ion	Ratio	Lower	Upper
45	100		
58	6.0	30.0	45.0#

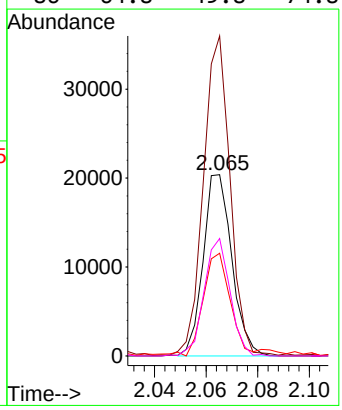


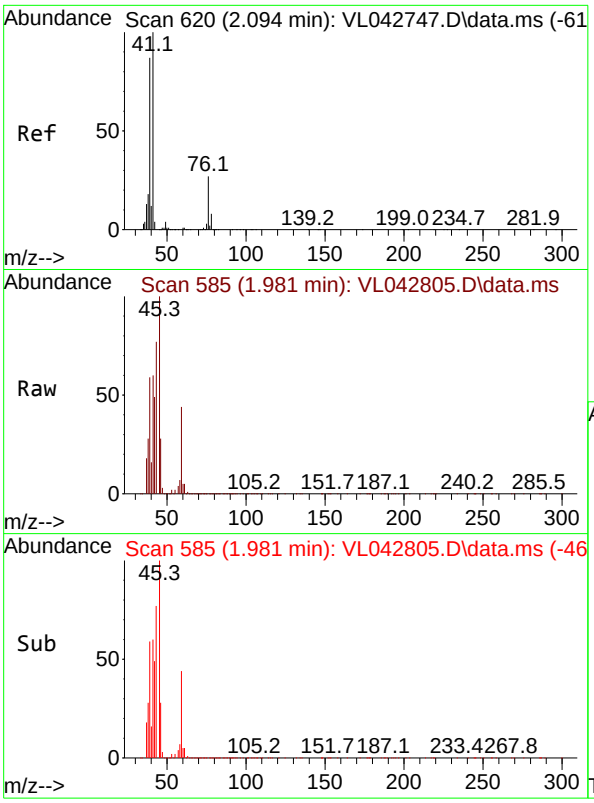


#20
Methylene Chloride
Concen: 2.213 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 84 Resp: 15760

Ion	Ratio	Lower	Upper
84	100		
49	176.0	138.6	208.0
51	54.6	40.6	61.0
86	64.8	49.8	74.8



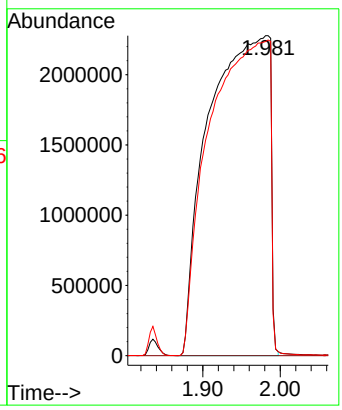


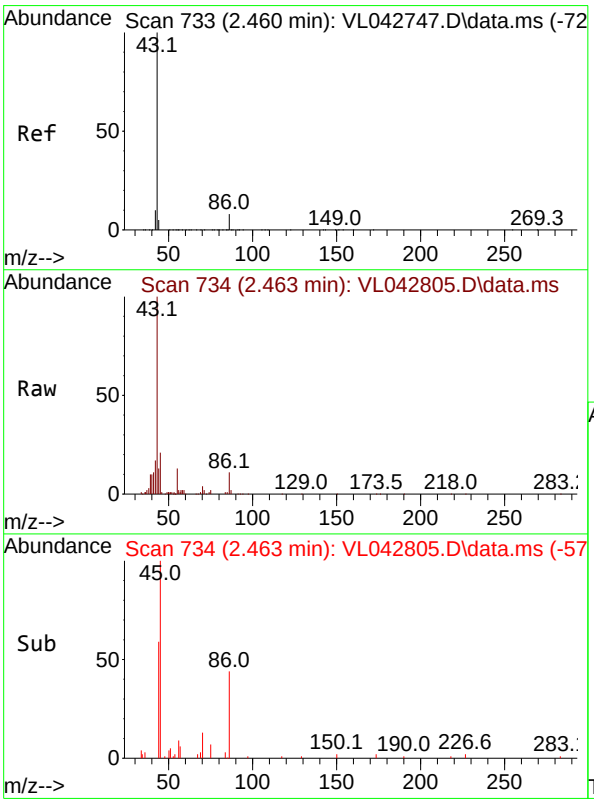
#21
Allyl Chloride
Concen: 892.893 ppbv
RT: 1.981 min Scan# 5
Delta R.T. -0.113 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 41 Resp:12438821

Ion	Ratio	Lower	Upper
41	100		
76	0.4	21.1	31.7#
39	97.1	68.3	102.5

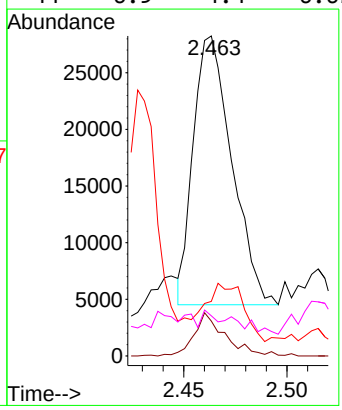


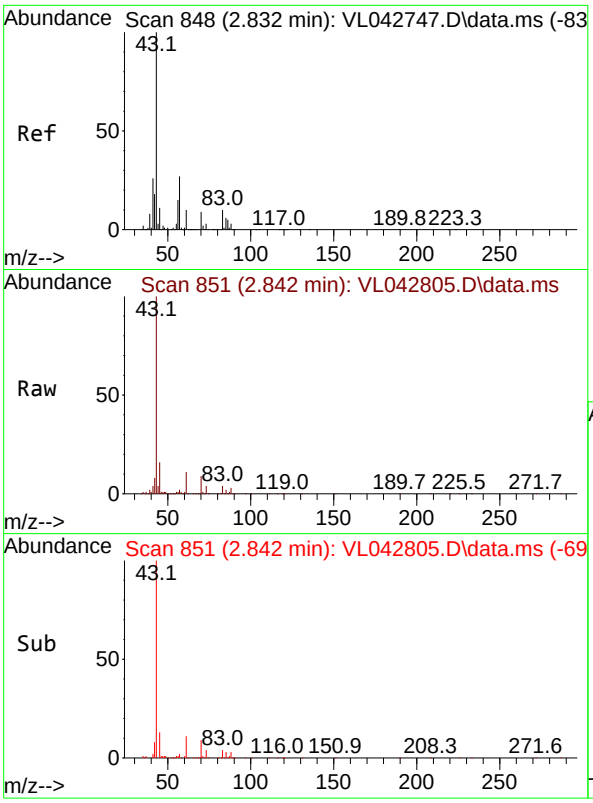


#23
Vinyl Acetate
Concen: 1.123 ppbv
RT: 2.463 min Scan# 734
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 43 Resp: 30783

Ion	Ratio	Lower	Upper
43	100		
86	12.7	6.1	9.1#
42	13.6	7.8	11.8#
44	6.9	4.4	6.6#



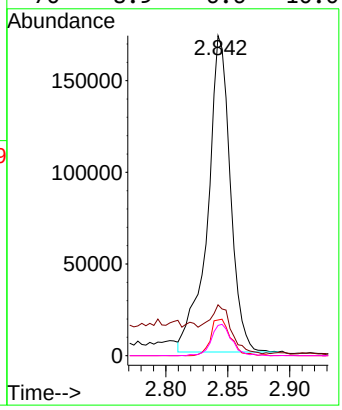


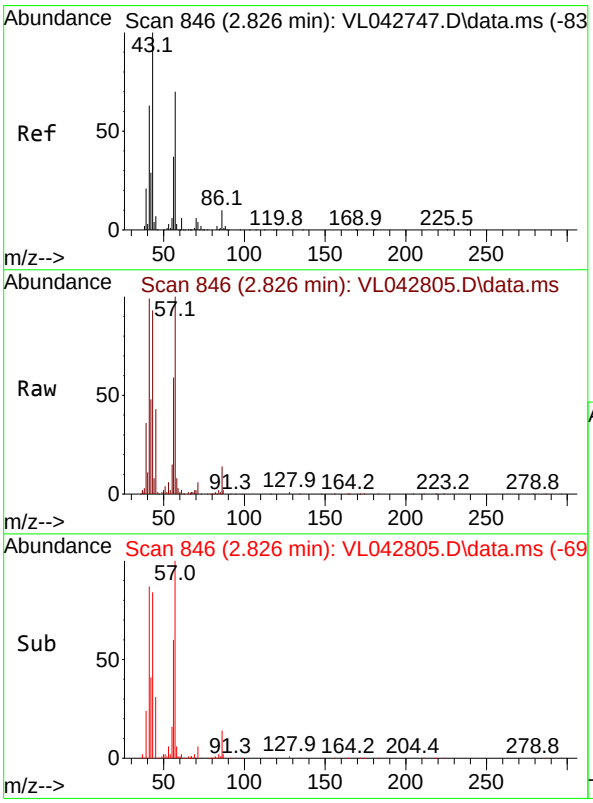
#25
Ethyl Acetate
Concen: 4.402 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 43 Resp: 220242

Ion	Ratio	Lower	Upper
43	100		
45	22.7	7.8	11.6#
61	10.3	6.7	10.1#
70	8.9	6.6	10.0

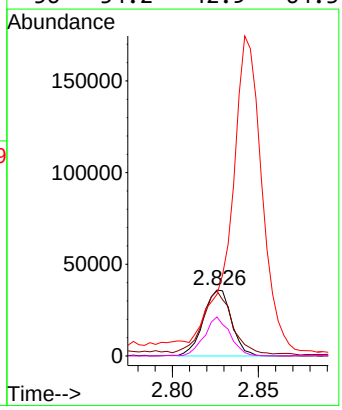


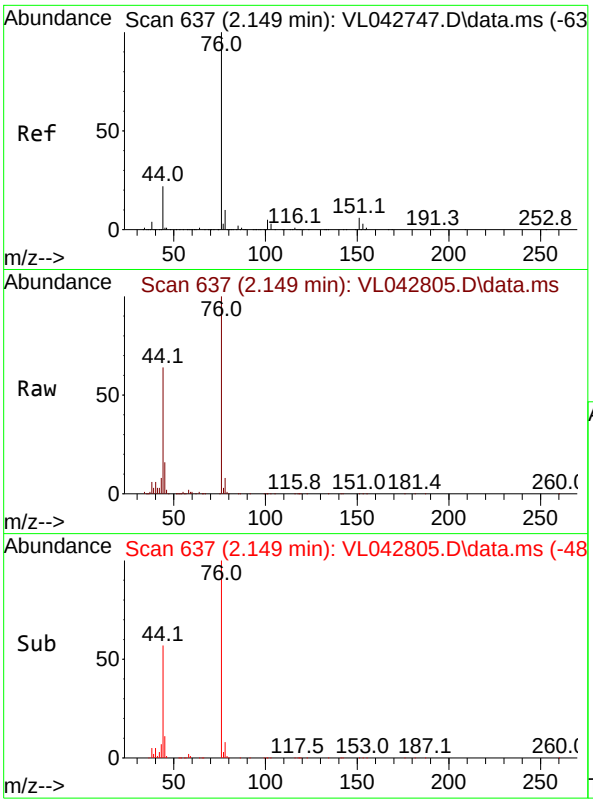


#26
Hexane
Concen: 1.865 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 57 Resp: 40934

Ion	Ratio	Lower	Upper
57	100		
41	116.8	75.4	113.2#
43	611.7	185.0	277.6#
56	54.2	42.9	64.3



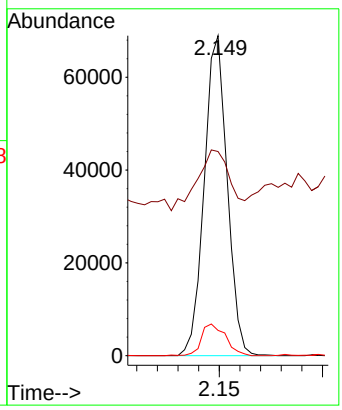


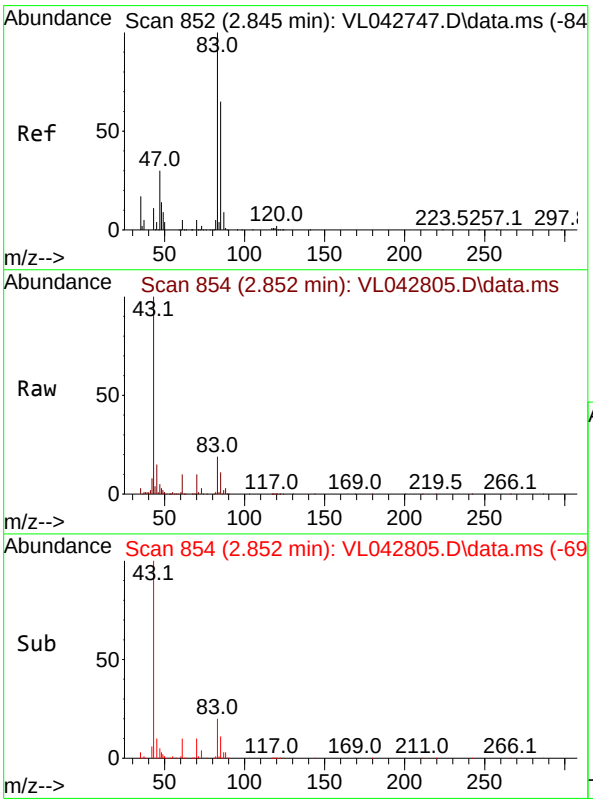
#27
Carbon Disulfide
Concen: 2.831 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 76 Resp: 53193

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	10.5	9.9	14.9

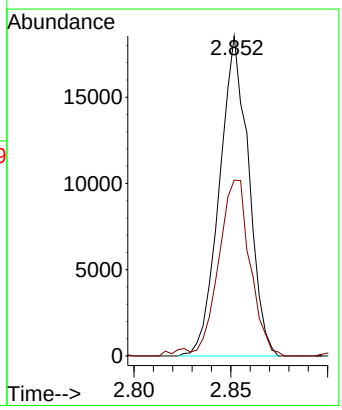


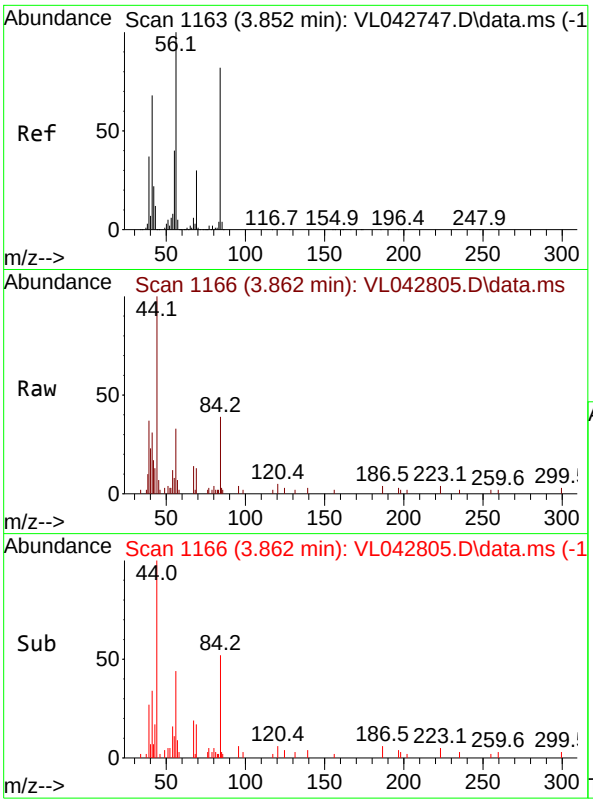


#29
Chloroform
Concen: 0.572 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 83 Resp: 19399

Ion	Ratio	Lower	Upper
83	100		
85	53.7	52.2	78.2



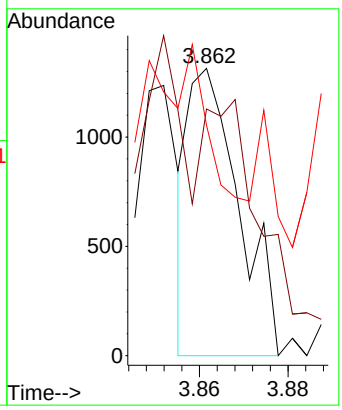


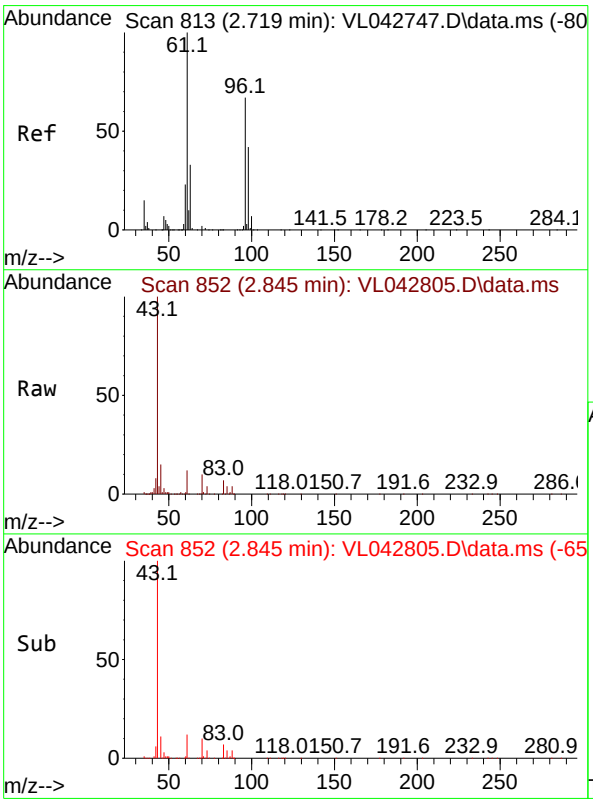
#30
Cyclohexane
Concen: 0.056 ppbv
RT: 3.862 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 84 Resp: 1045

Ion	Ratio	Lower	Upper
84	100		
56	0.0	97.5	146.3#
41	321.5	67.2	100.8#

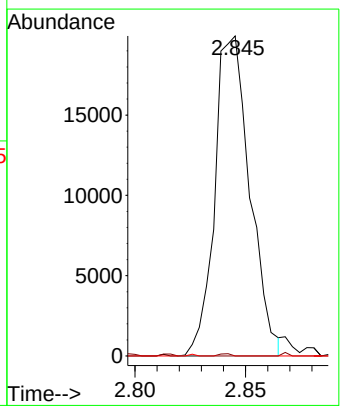


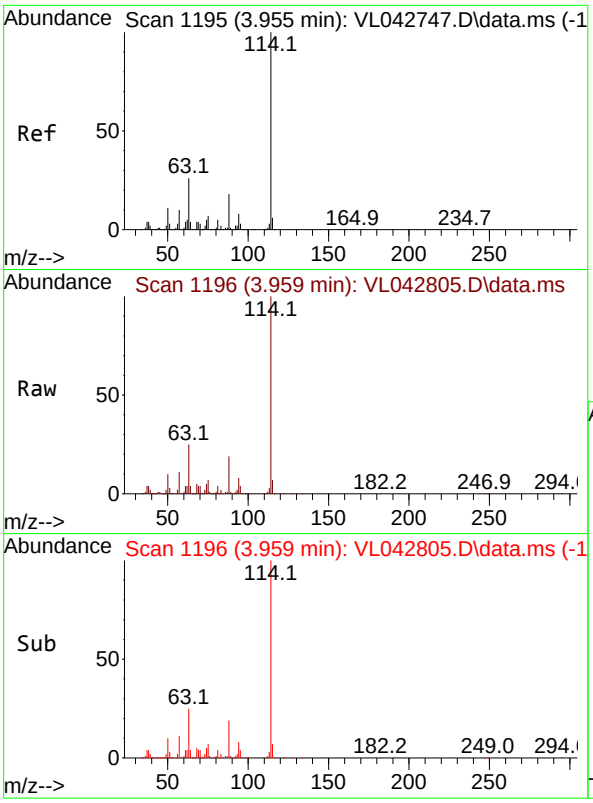


#31
cis-1,2-Dichloroethene
Concen: 0.974 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.126 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 61 Resp: 21971

Ion	Ratio	Lower	Upper
61	100		
96	0.0	53.5	80.3#
98	0.0	33.6	50.4#



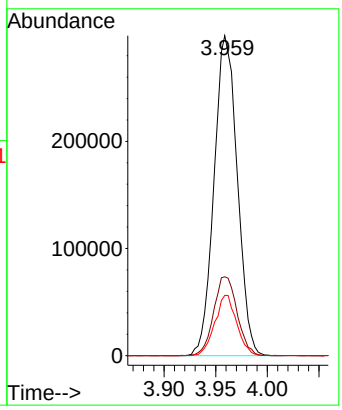


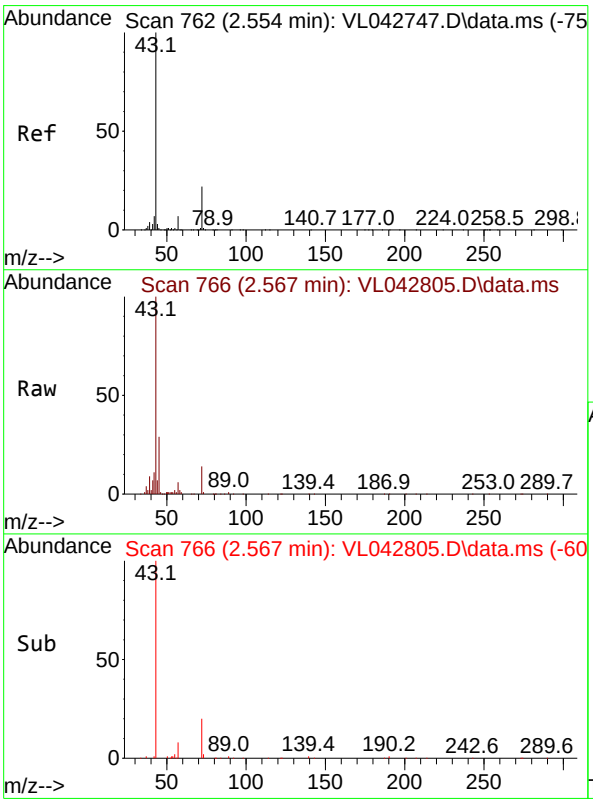
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion:114 Resp: 467931

Ion	Ratio	Lower	Upper
114	100		
63	25.0	20.5	30.7
88	17.8	14.0	21.0

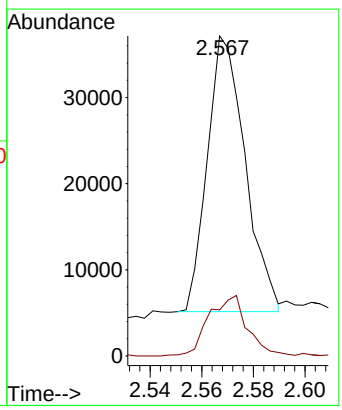


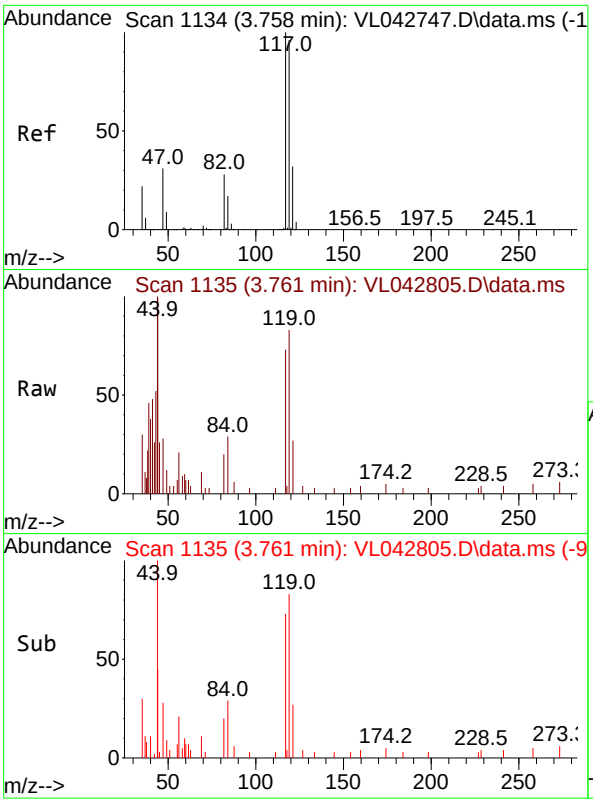


#34
2-Butanone
Concen: 0.980 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 43 Resp: 32492

Ion	Ratio	Lower	Upper
43	100		
72	23.1	17.4	26.0



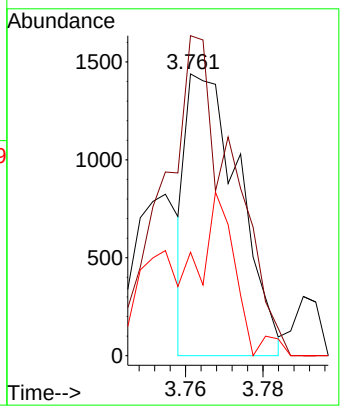


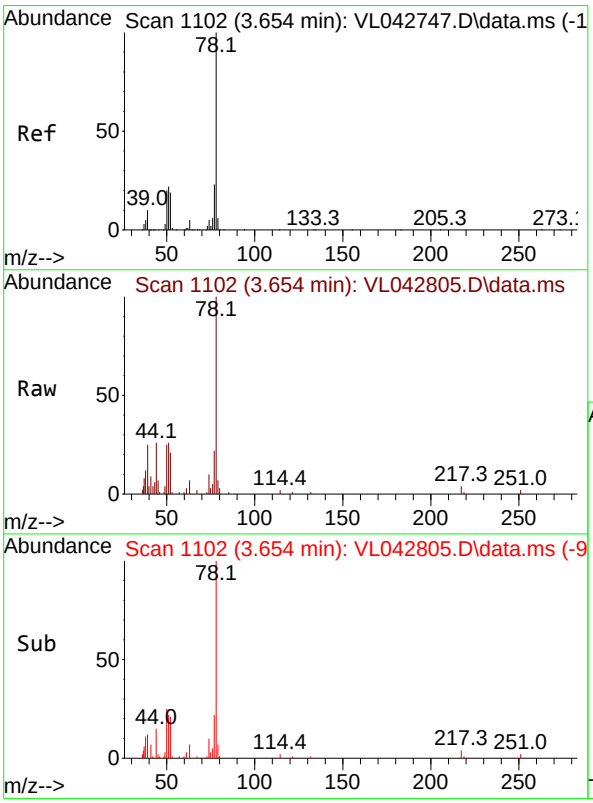
#35
Carbon Tetrachloride
Concen: 0.039 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion:117 Resp: 1365

Ion	Ratio	Lower	Upper
117	100		
119	104.8	77.1	115.7
121	31.1	25.5	38.3

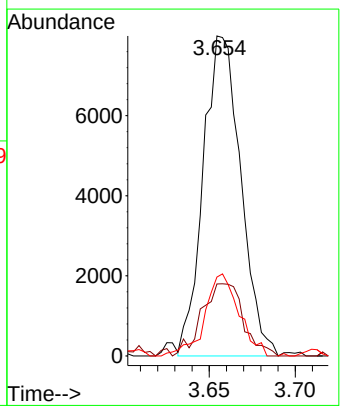


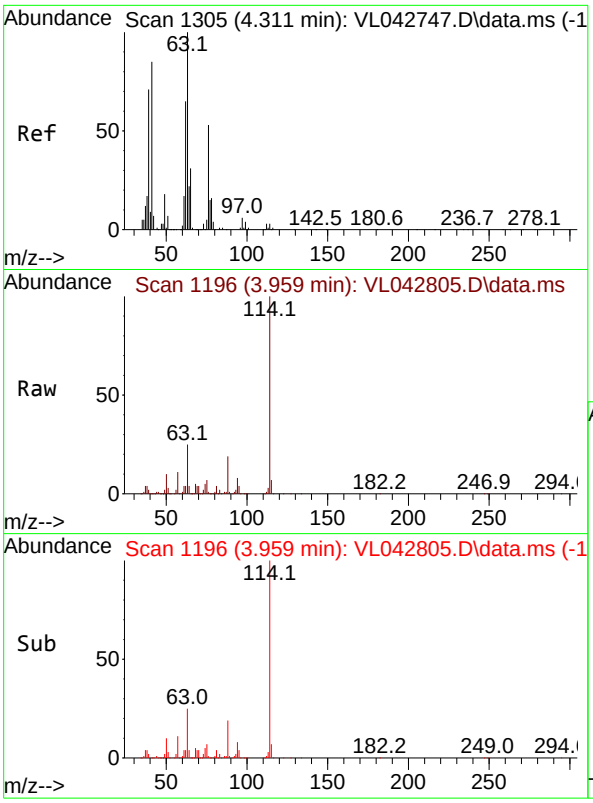


#36
Benzene
Concen: 0.274 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 78 Resp: 12134

Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.5	27.7
50	24.6	16.2	24.2#



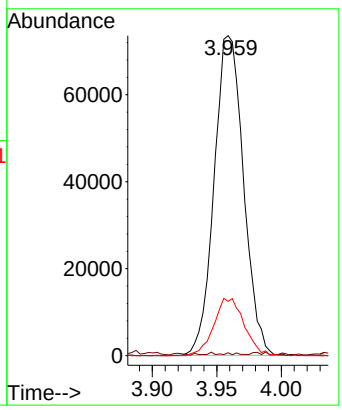


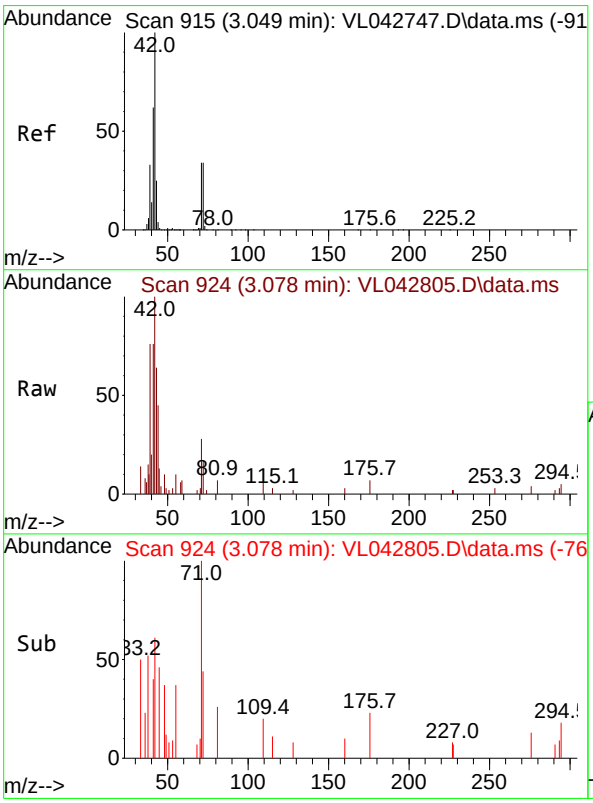
#39
1,2-Dichloropropane
Concen: 7.102 ppbv
RT: 3.959 min Scan# 11
Delta R.T. -0.353 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 63 Resp: 116251

Ion	Ratio	Lower	Upper
63	100		
41	0.5	68.2	102.4#
62	17.0	52.0	78.0#

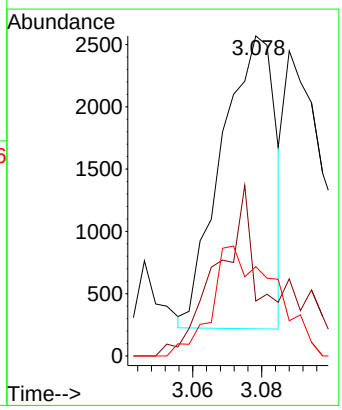


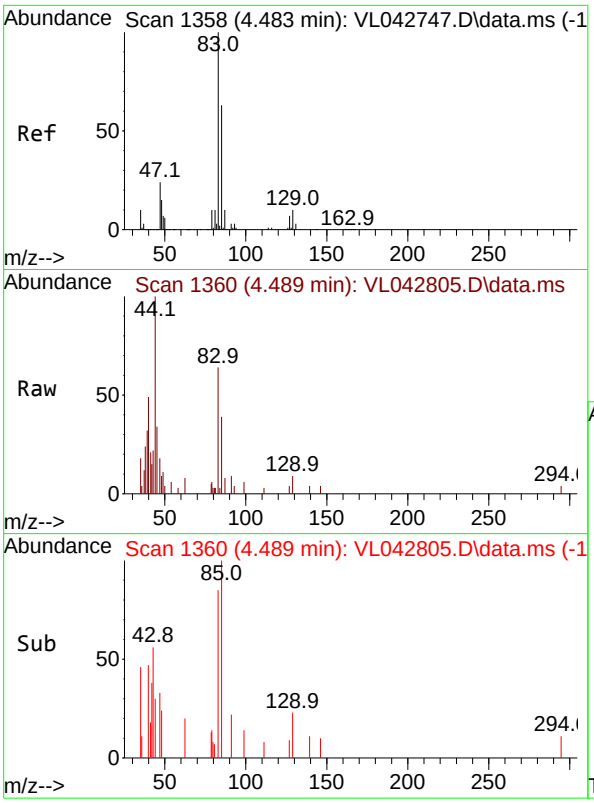


#41
Tetrahydrofuran
Concen: 0.152 ppbv
RT: 3.078 min Scan# 924
Delta R.T. 0.029 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 42 Resp: 2570

Ion	Ratio	Lower	Upper
42	100		
72	64.0	30.9	46.3#
71	43.7	28.6	43.0#



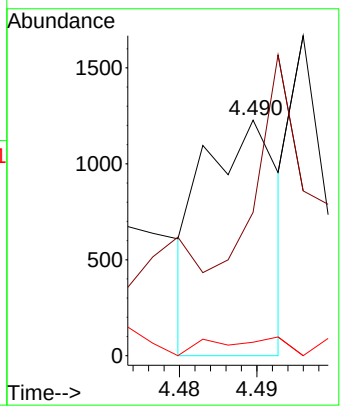


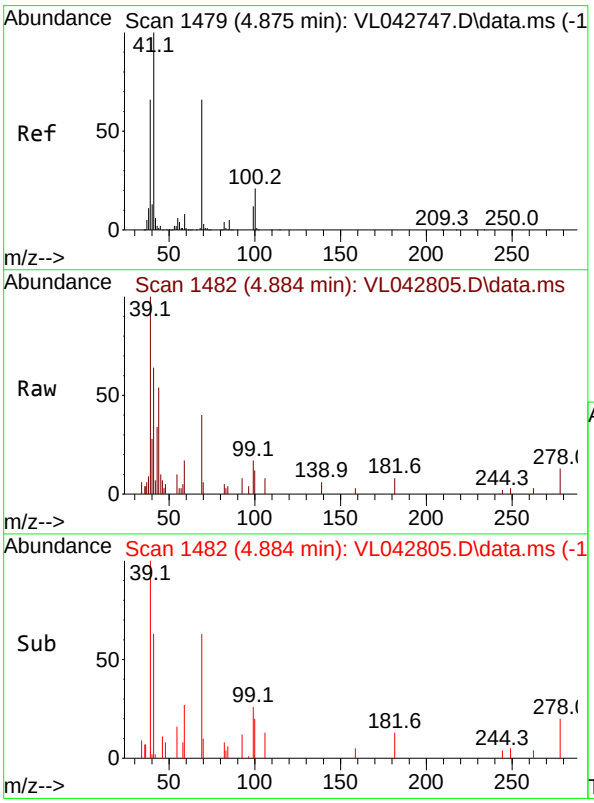
#42
Bromodichloromethane
Concen: 0.024 ppbv
RT: 4.489 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 83 Resp: 820

Ion	Ratio	Lower	Upper
83	100		
85	20.8	50.2	75.4#
127	11.3	5.4	8.2#

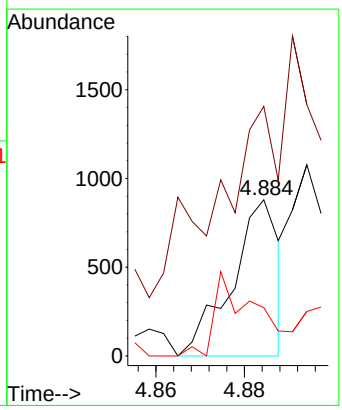


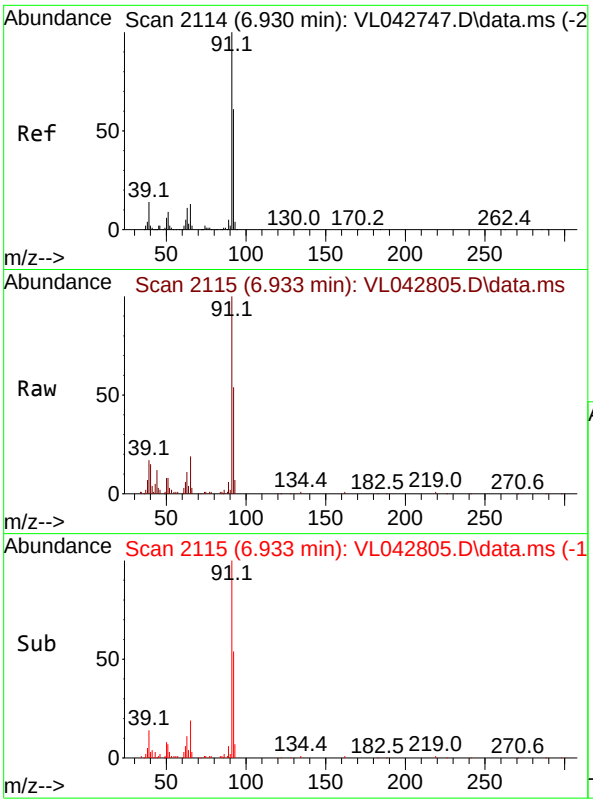


#43
Methyl Methacrylate
Concen: 0.041 ppbv
RT: 4.884 min Scan# 1482
Delta R.T. 0.010 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 69 Resp: 645

Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	83.4	28.6	42.8#



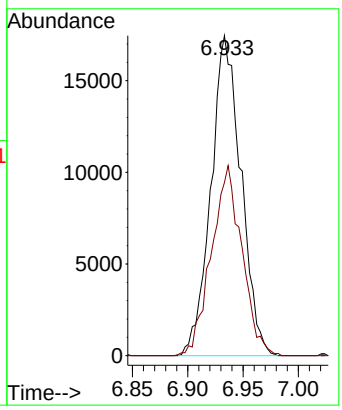


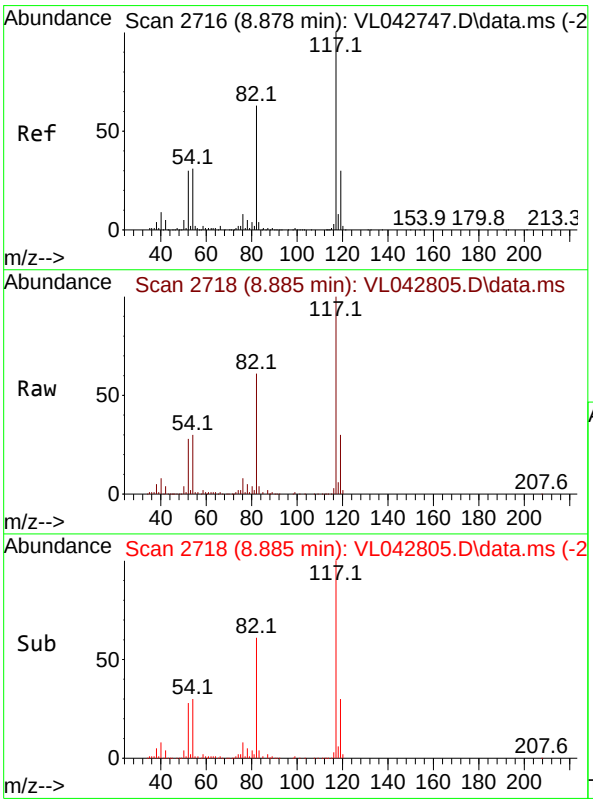
#53
Toluene
Concen: 0.693 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 91 Resp: 33005

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.0	72.0

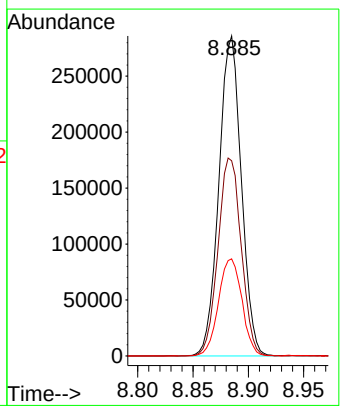


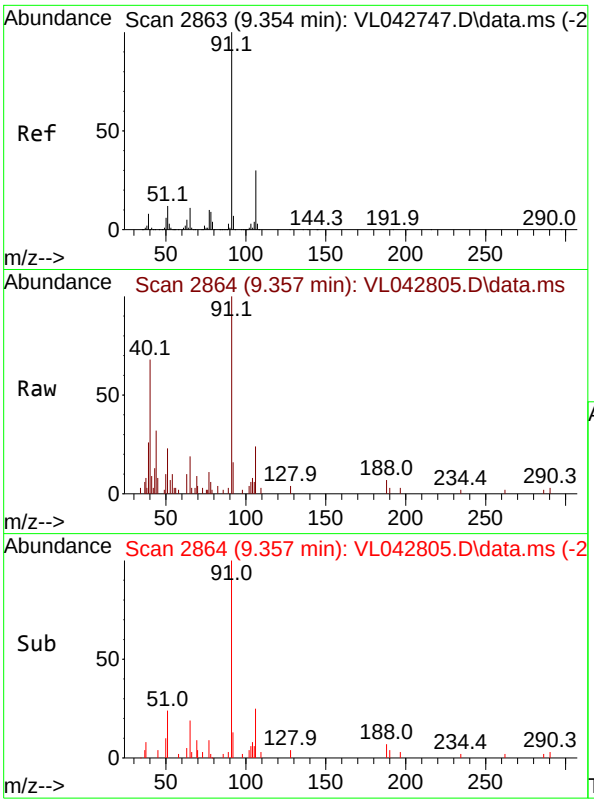


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.006 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion:117 Resp: 403577

Ion	Ratio	Lower	Upper
117	100		
82	64.0	53.3	79.9
119	31.8	25.8	38.6



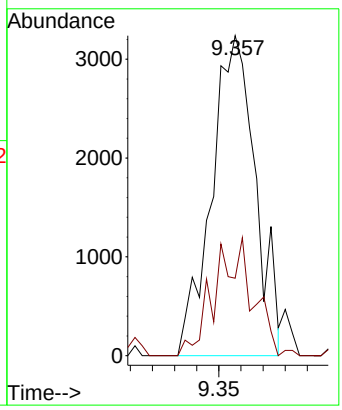


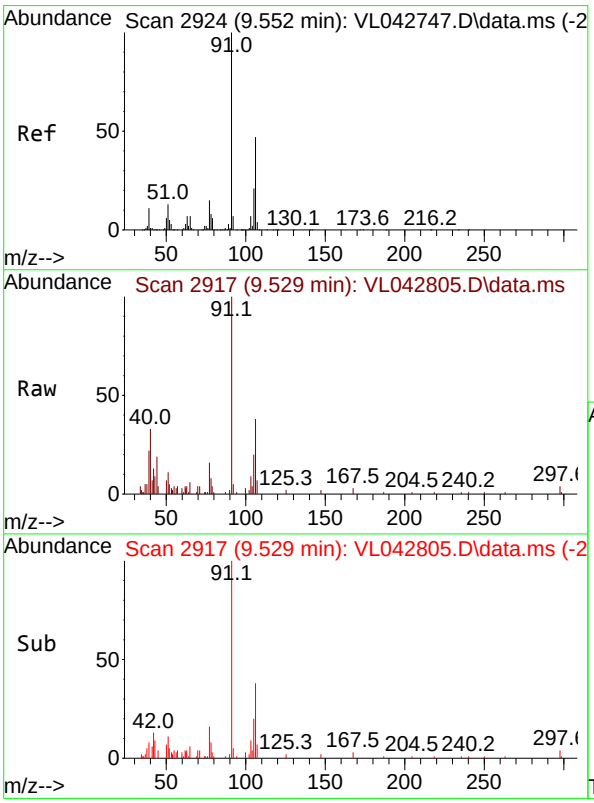
#58
Ethyl Benzene
Concen: 0.070 ppbv
RT: 9.357 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 91 Resp: 4460

Ion	Ratio	Lower	Upper
91	100		
106	24.2	23.8	35.6

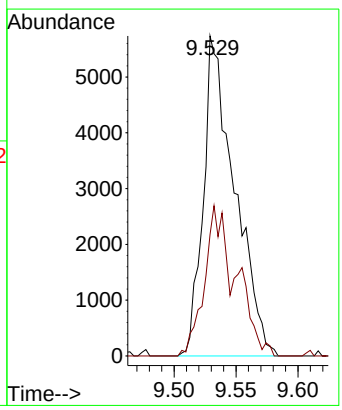


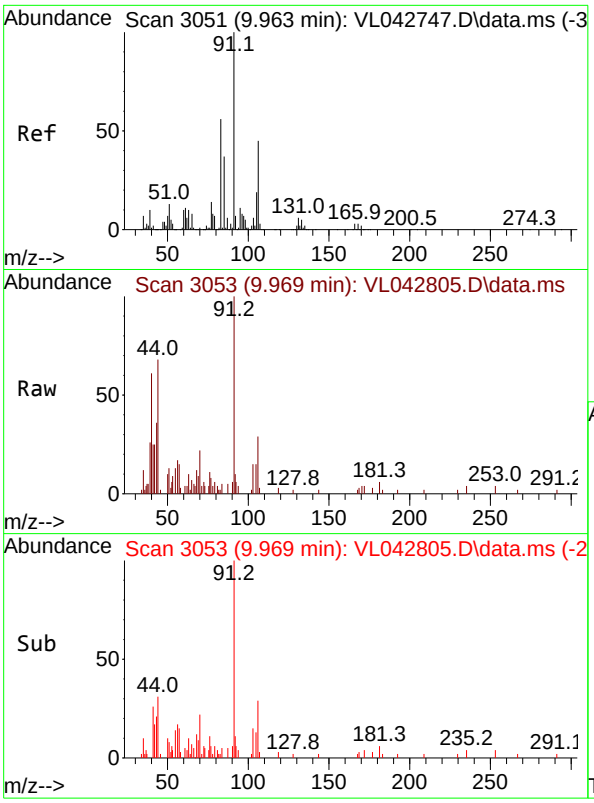


#59
m/p-Xylene
Concen: 0.199 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 91 Resp: 10128

Ion	Ratio	Lower	Upper
91	100		
106	47.0	37.4	56.2



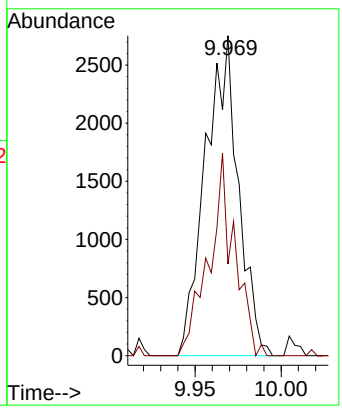


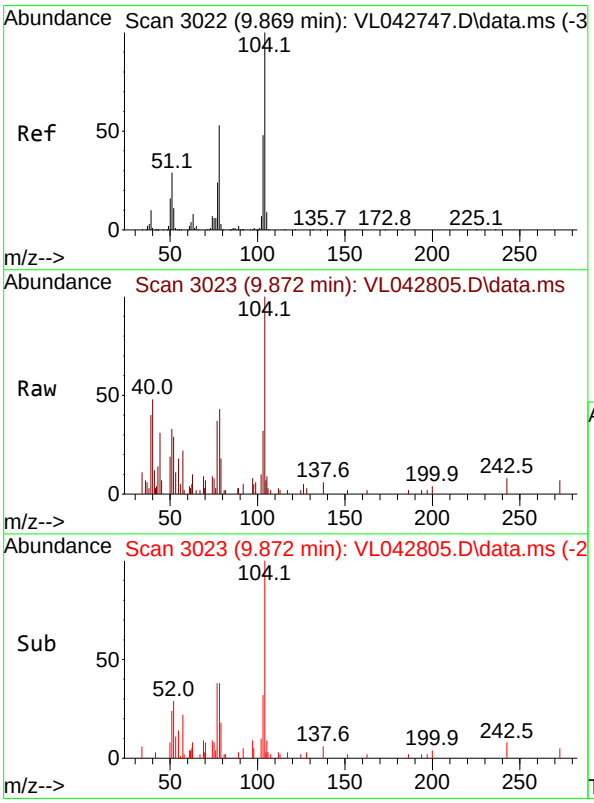
#60
o-Xylene
Concen: 0.072 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 91 Resp: 3671

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.0	66.0

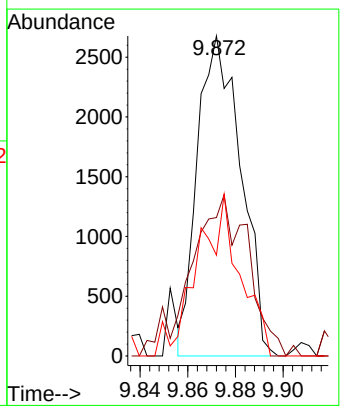


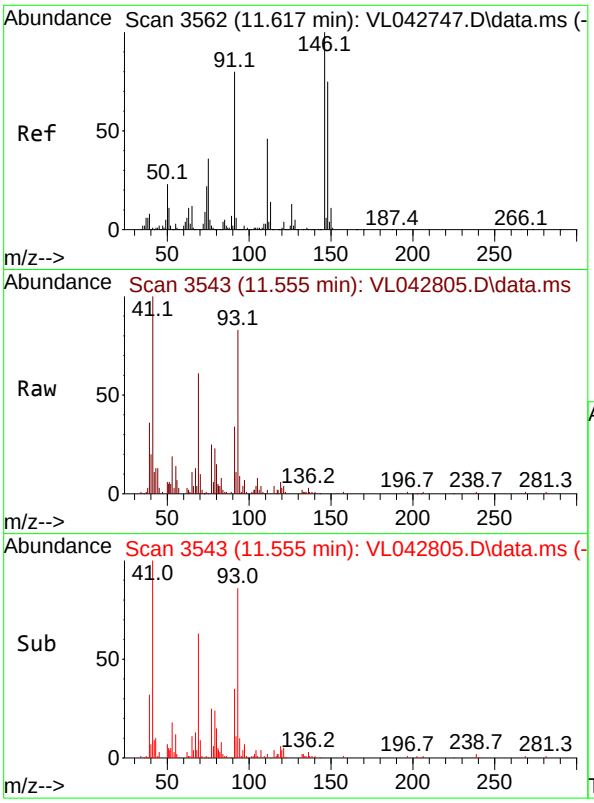


#61
Styrene
Concen: 0.158 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion:104 Resp: 3389

Ion	Ratio	Lower	Upper
104	100		
78	68.1	41.5	62.3#
103	49.9	37.5	56.3



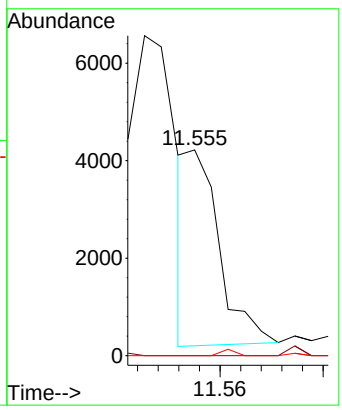


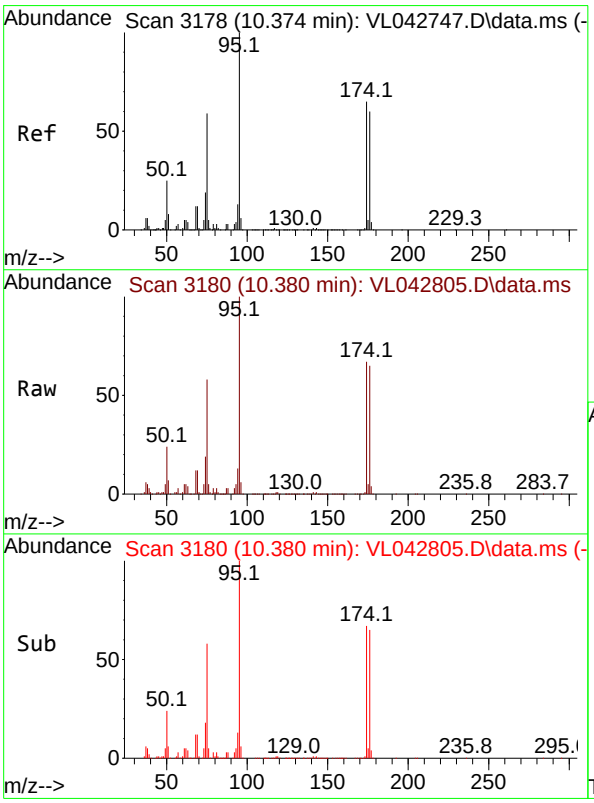
#66
Benzyl Chloride
Concen: 0.317 ppbv
RT: 11.555 min Scan# 3
Delta R.T. -0.061 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 91 Resp: 1735

Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.4	21.6#
128	2.0	5.2	7.8#

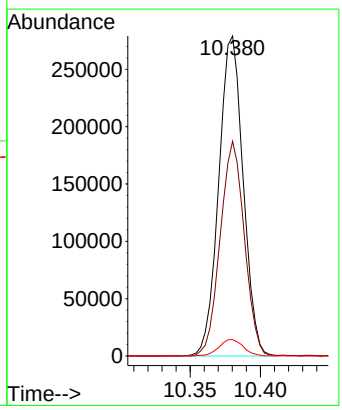


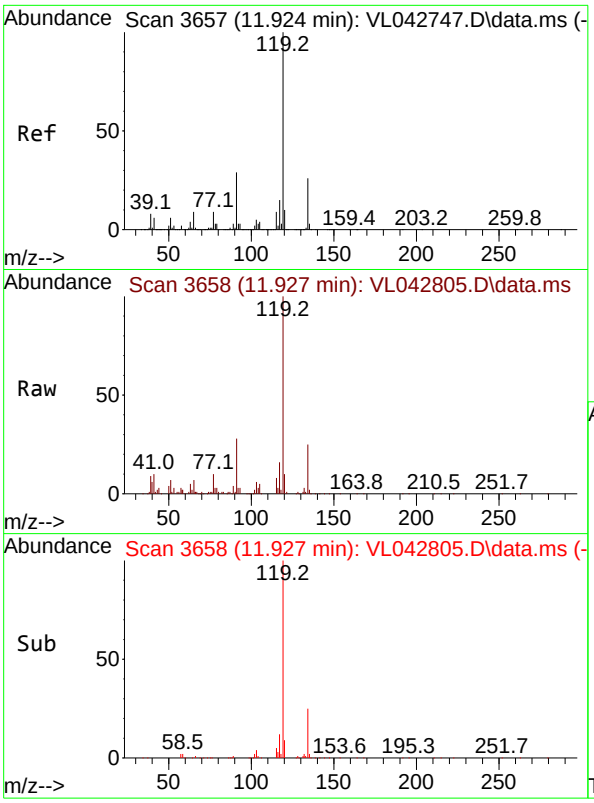


#68
1-Bromo-4-Fluorobenzene
Concen: 10.523 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.006 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 95 Resp: 336326

Ion	Ratio	Lower	Upper
95	100		
174	66.6	53.8	80.6
175	5.1	4.0	6.0



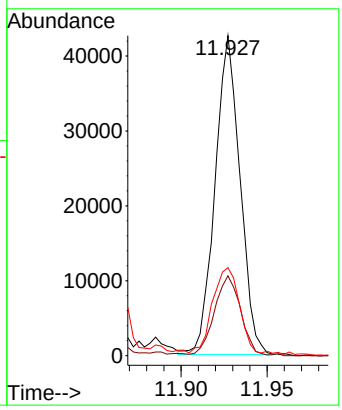


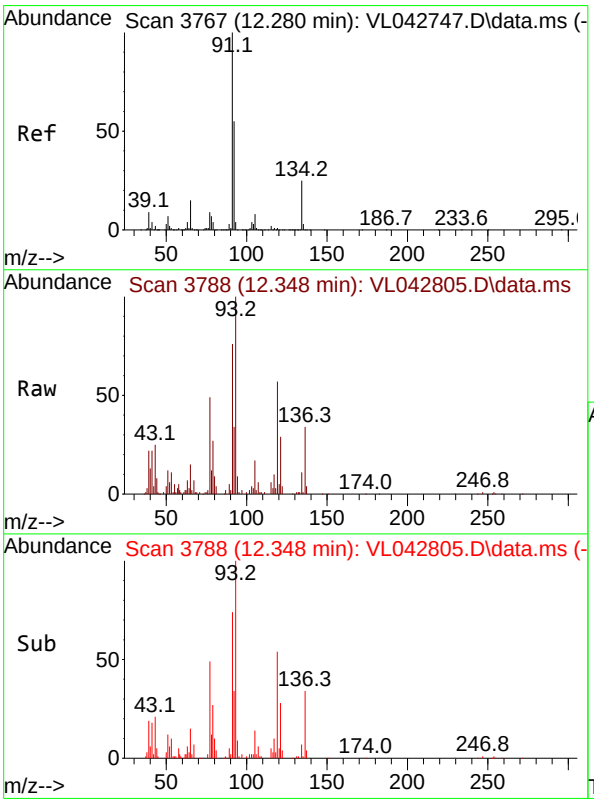
#69
p-Isopropyltoluene
Concen: 0.557 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion:119 Resp: 43073

Ion	Ratio	Lower	Upper
119	100		
134	26.6	20.6	31.0
91	31.2	23.2	34.8

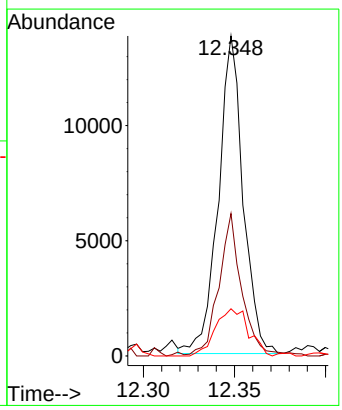


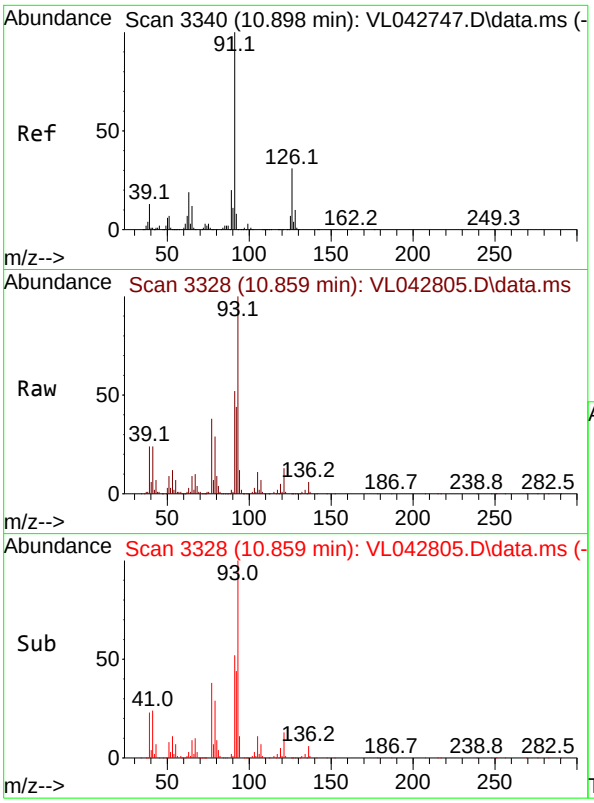


#70
n-Butylbenzene
Concen: 0.175 ppbv
RT: 12.348 min Scan# 3788
Delta R.T. 0.068 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion: 91 Resp: 13039

Ion	Ratio	Lower	Upper
91	100		
92	42.1	43.4	65.2#
134	20.5	19.6	29.4



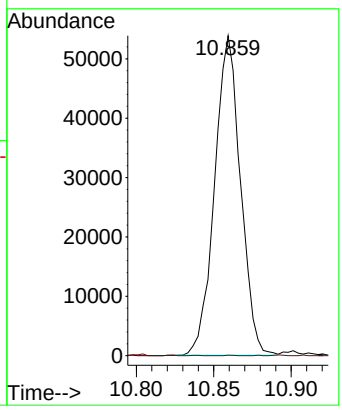


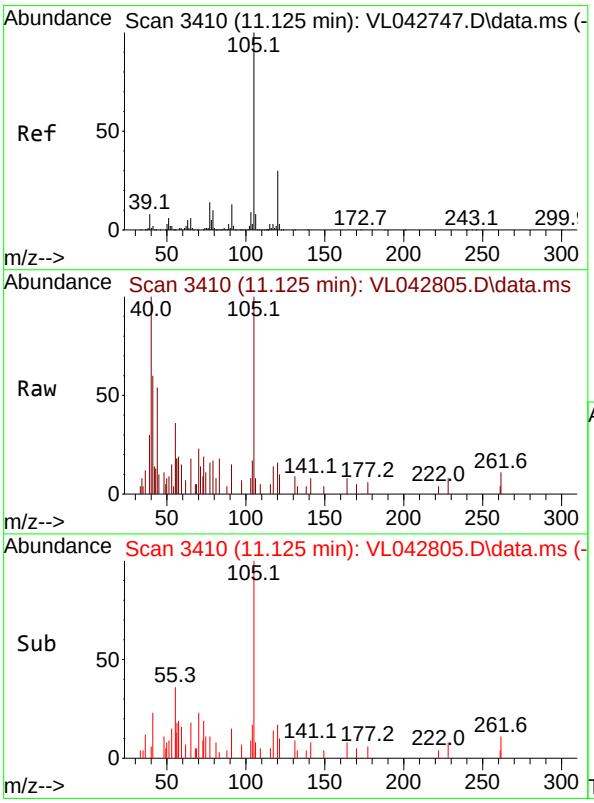
#71
2-Chlorotoluene
Concen: 1.086 ppbv
RT: 10.859 min Scan# 3
Delta R.T. -0.039 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion: 91 Resp: 62538

Ion	Ratio	Lower	Upper
91	100		
126	0.2	12.0	48.2#

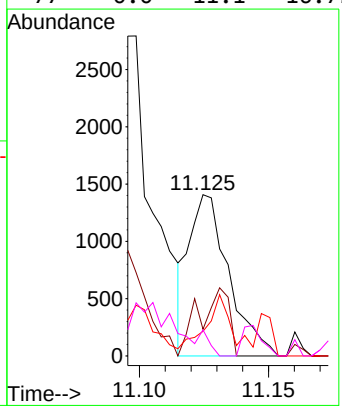


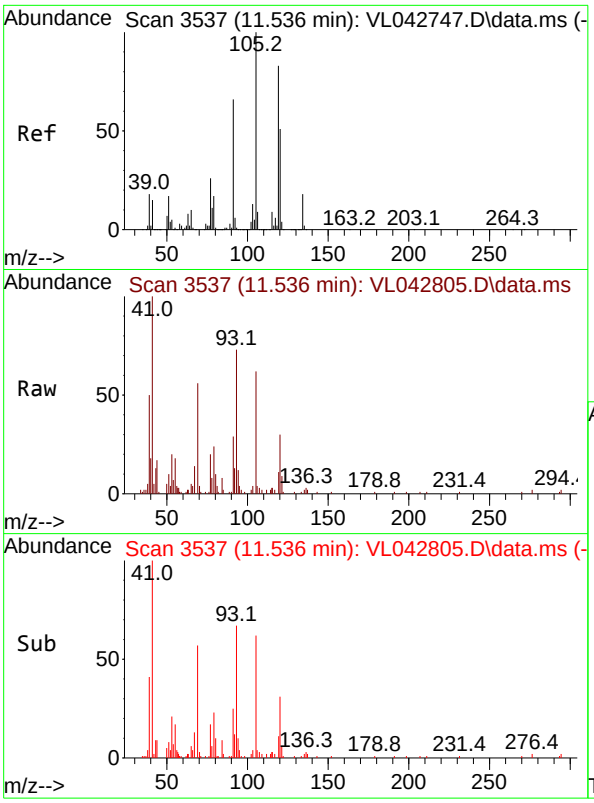


#72
4-Ethyltoluene
Concen: 0.025 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion:105 Resp: 1510

Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.4	36.6#
91	0.0	10.6	15.8#
77	0.0	11.1	16.7#



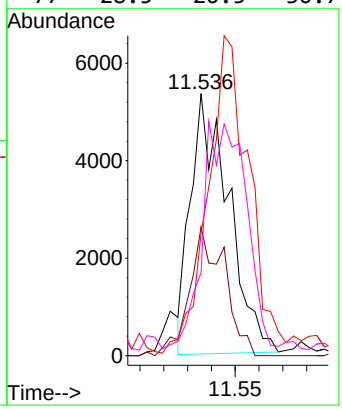


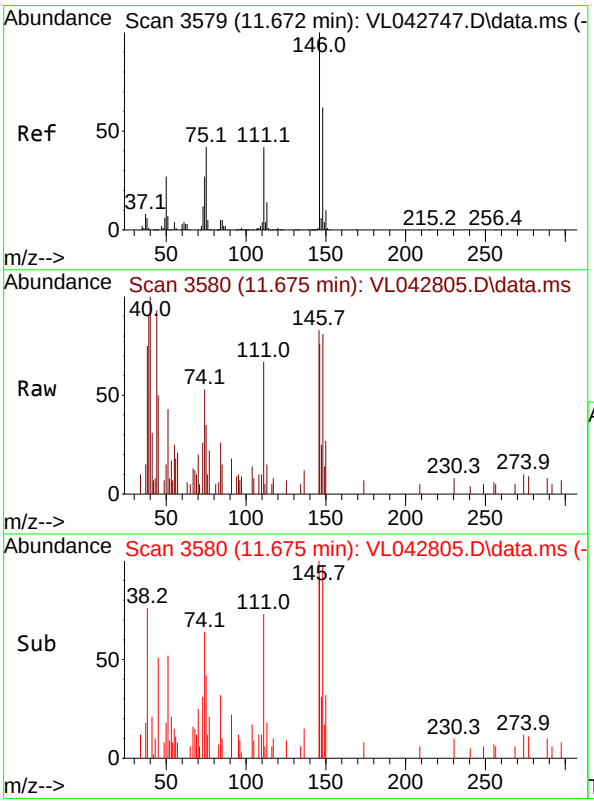
#74
1,2,4-Trimethylbenzene
Concen: 0.108 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion:105 Resp: 5892

Ion	Ratio	Lower	Upper
105	100		
120	47.6	40.8	61.2
91	41.3	53.0	79.4#
77	28.5	20.5	30.7

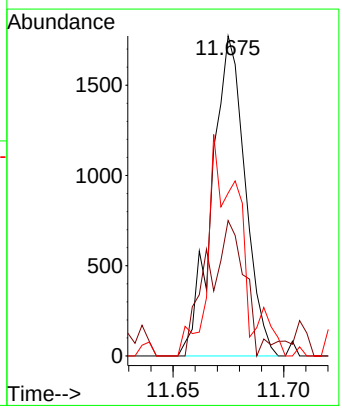


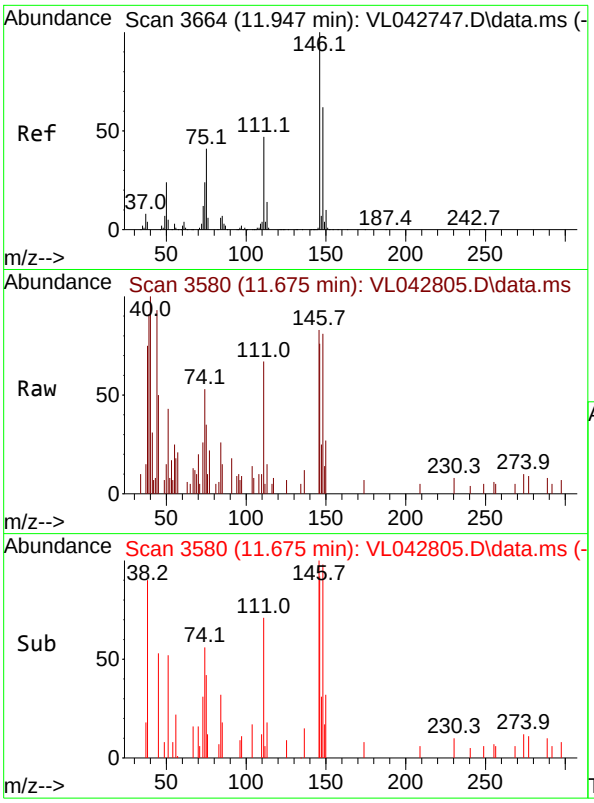


#76
1,4-Dichlorobenzene
Concen: 0.049 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion:146 Resp: 1848

Ion	Ratio	Lower	Upper
146	100		
111	63.1	21.4	64.2
148	66.8	32.1	96.3



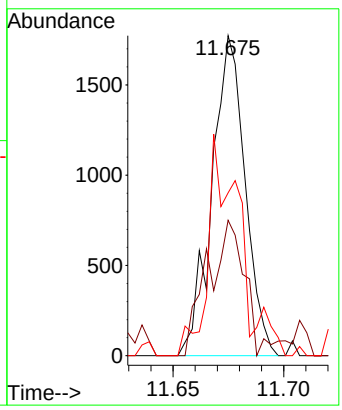


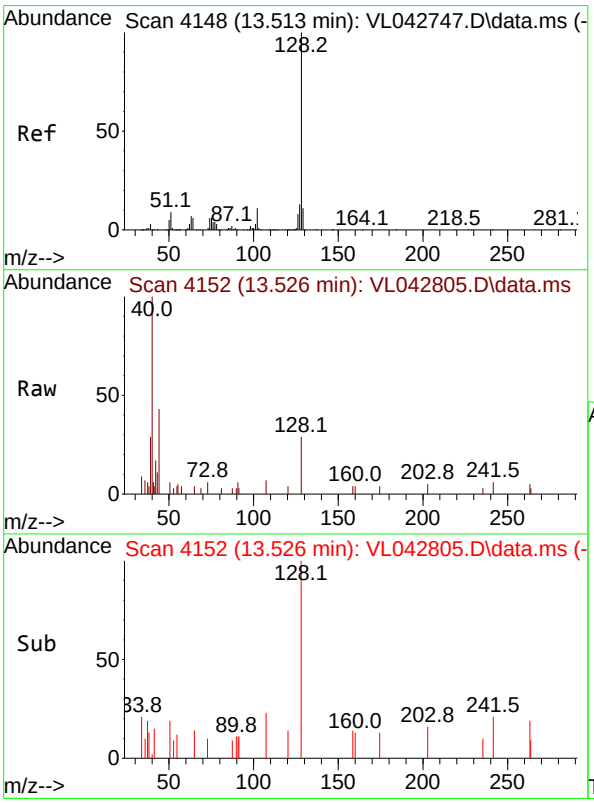
#77
1,2-Dichlorobenzene
Concen: 0.049 ppbv
RT: 11.675 min Scan# 3
Delta R.T. -0.272 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion:146 Resp: 1848

Ion	Ratio	Lower	Upper
146	100		
111	48.6	23.7	71.1
148	69.0	32.6	97.7

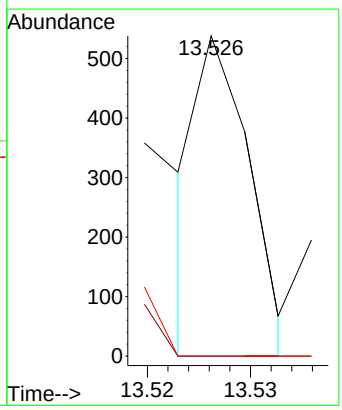


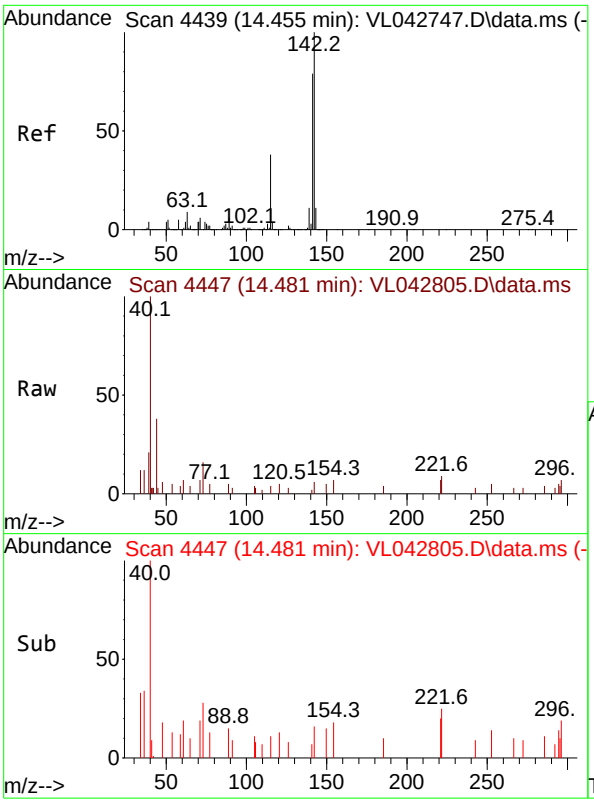


#79
Naphthalene
Concen: 0.438 ppbv
RT: 13.526 min Scan# 4152
Delta R.T. 0.013 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion:128 Resp: 191

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	13.0#



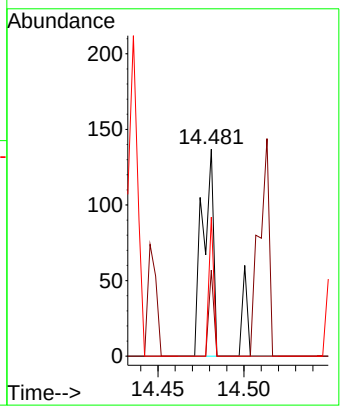


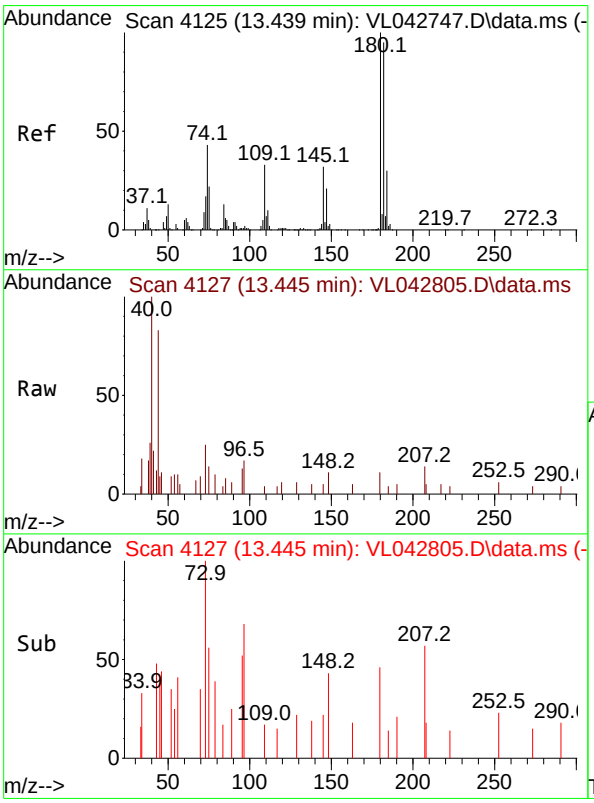
#80
Naphthalene,2-methyl-
Concen: 1.131 ppbv
RT: 14.481 min Scan# 44
Delta R.T. 0.026 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7

Tgt Ion:142 Resp: 72

Ion	Ratio	Lower	Upper
142	100		
141	15.3	65.8	98.8#
115	25.0	31.2	46.8#

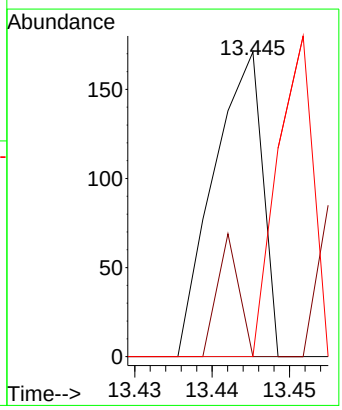




#81
1,2,4-Trichlorobenzene
Concen: 0.437 ppbv
RT: 13.445 min Scan# 4127
Delta R.T. 0.006 min
Lab File: VL042805.D
Acq: 04 Aug 2025 15:10

Tgt Ion:180 Resp: 75

Ion	Ratio	Lower	Upper
180	100		
182	40.0	76.2	114.2#
184	77.3	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042806.D
Acq On : 04 Aug 2025 15:44
Operator : SY/MD
Sample : Q2750-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Quant Time: Aug 05 01:07:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	162780	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	464881	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	398366	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	335920	10.648	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 106.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	12758	0.593	ppbv		98
3) Chlorodifluoromethane	1.476	51	1351589	48.209	ppbv	#	90
4) Chloromethane	1.531	50	5691	0.654	ppbv		92
5) Vinyl Chloride	1.486	62	1241	0.144	ppbv	#	44
7) Chloroethane	1.703	64	299	0.090	ppbv	#	23
8) Dichlorotetrafluoroethane	1.499	85	12758	0.721	ppbv	#	22
9) Propene	1.560	41	532400	52.249	ppbv		96
10) Heptane	4.991	43	1224	0.045	ppbv	#	1
11) Trichlorofluoromethane	1.881	101	4494	0.203	ppbv		92
12) 1,1,2-Trichlorotrifluo...	2.140	101	1274	0.076	ppbv	#	72
13) Ethanol	1.728	45	3700748	4986.827	ppbv		94
15) Acetone	1.835	43	2155988	95.918	ppbv	#	80
16) 1,3-Butadiene	1.560	39	258545	26.967	ppbv	#	16
17) tert-Butyl alcohol	1.974	59	6482411	319.767	ppbv		96
19) Isopropyl Alcohol	1.952	45	16253330	1360.710	ppbv	#	37
20) Methylene Chloride	2.065	84	16608	2.345	ppbv		88
21) Allyl Chloride	1.974	41	776946	56.084	ppbv	#	1
23) Vinyl Acetate	2.460	43	41161	1.510	ppbv	#	93
25) Ethyl Acetate	2.842	43	198191	3.983	ppbv	#	58
26) Hexane	2.829	57	47214	2.163	ppbv	#	1
27) Carbon Disulfide	2.152	76	46700	2.499	ppbv	#	65
28) Methyl tert-Butyl Ether	2.447	73	273	0.026	ppbv	#	50
29) Chloroform	2.852	83	18480	0.548	ppbv		100
30) Cyclohexane	3.868	84	589	0.032	ppbv	#	1
31) cis-1,2-Dichloroethene	2.842	61	19473	0.868	ppbv	#	23
34) 2-Butanone	2.570	43	33339	1.012	ppbv		99
35) Carbon Tetrachloride	3.768	117	2055	0.060	ppbv	#	84
36) Benzene	3.661	78	13222	0.300	ppbv	#	88
39) 1,2-Dichloropropane	3.962	63	117616	7.232	ppbv	#	20
41) Tetrahydrofuran	3.065	42	1171	0.070	ppbv	#	1
42) Bromodichloromethane	4.496	83	1555	0.045	ppbv	#	78
43) Methyl Methacrylate	4.881	69	391	0.025	ppbv	#	1
53) Toluene	6.943	91	31303	0.662	ppbv		96
58) Ethyl Benzene	9.364	91	4328	0.069	ppbv		98
59) m/p-Xylene	9.558	91	1884	0.037	ppbv	#	30
60) o-Xylene	9.969	91	3412	0.068	ppbv		81
61) Styrene	9.875	104	3442	0.163	ppbv	#	85
66) Benzyl Chloride	11.545	91	7350	1.360	ppbv	#	67
69) p-Isopropyltoluene	11.930	119	45031	0.590	ppbv		98
70) n-Butylbenzene	12.348	91	13894	0.188	ppbv	#	87
73) 1,3,5-Trimethylbenzene	11.209	105	1158	0.023	ppbv	#	55
74) 1,2,4-Trimethylbenzene	11.539	105	6323	0.117	ppbv	#	75
76) 1,4-Dichlorobenzene	11.671	146	1937	0.052	ppbv	#	79

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042806.D
Acq On : 04 Aug 2025 15:44
Operator : SY/MD
Sample : Q2750-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Quant Time: Aug 05 01:07:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

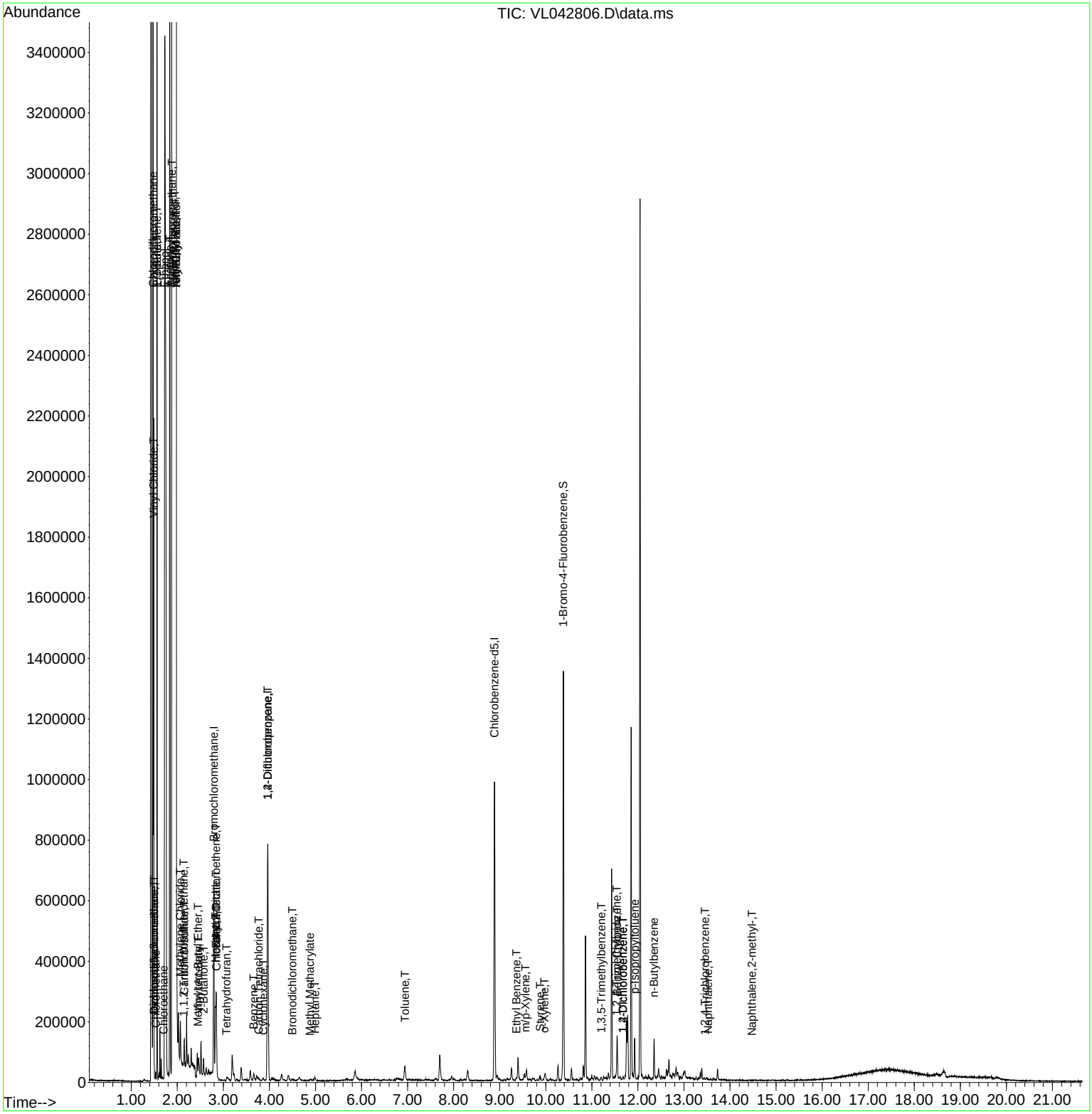
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
77)	1,2-Dichlorobenzene	11.671	146	1937	0.052	ppbv		83
79)	Naphthalene	13.520	128	1344	0.457	ppbv	#	79
80)	Naphthalene,2-methyl-	14.478	142	81	1.131	ppbv	#	83
81)	1,2,4-Trichlorobenzene	13.455	180	30	0.436	ppbv	#	1

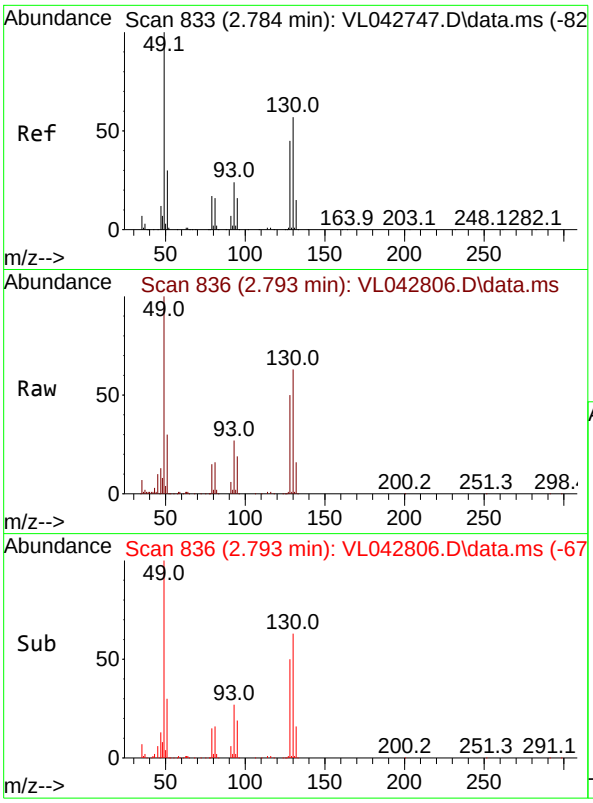
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042806.D
Acq On : 04 Aug 2025 15:44
Operator : SY/MD
Sample : Q2750-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Quant Time: Aug 05 01:07:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



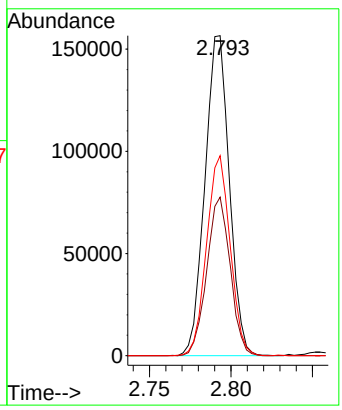


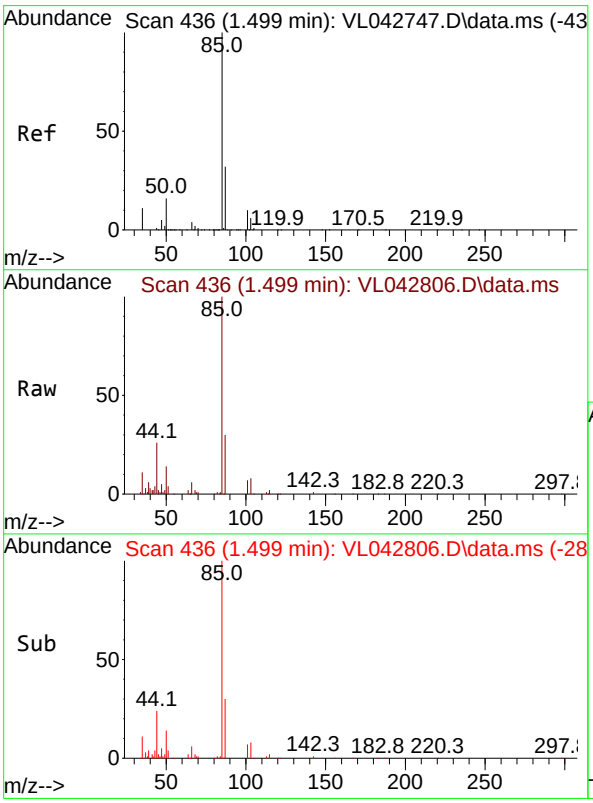
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.009 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 49 Resp: 162780

Ion	Ratio	Lower	Upper
49	100		
128	47.7	23.6	71.0
130	60.5	30.3	90.8

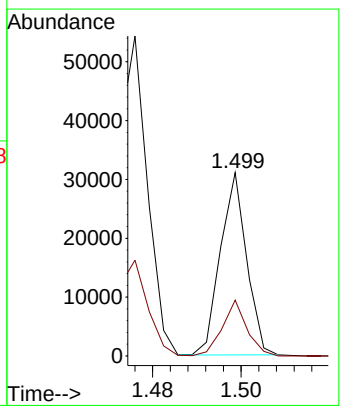


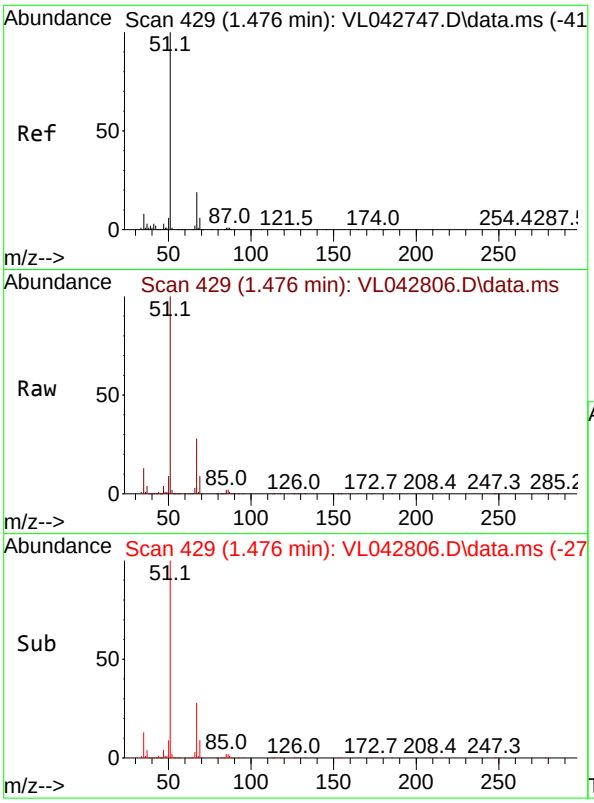


#2
Dichlorodifluoromethane
Concen: 0.593 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 85 Resp: 12758

Ion	Ratio	Lower	Upper
85	100		
87	30.7	25.4	38.2



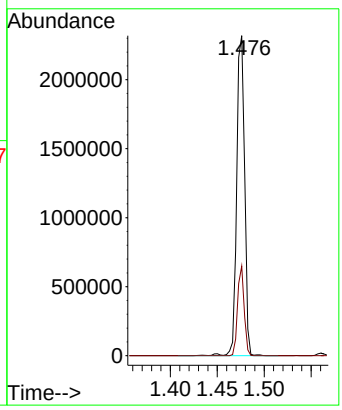


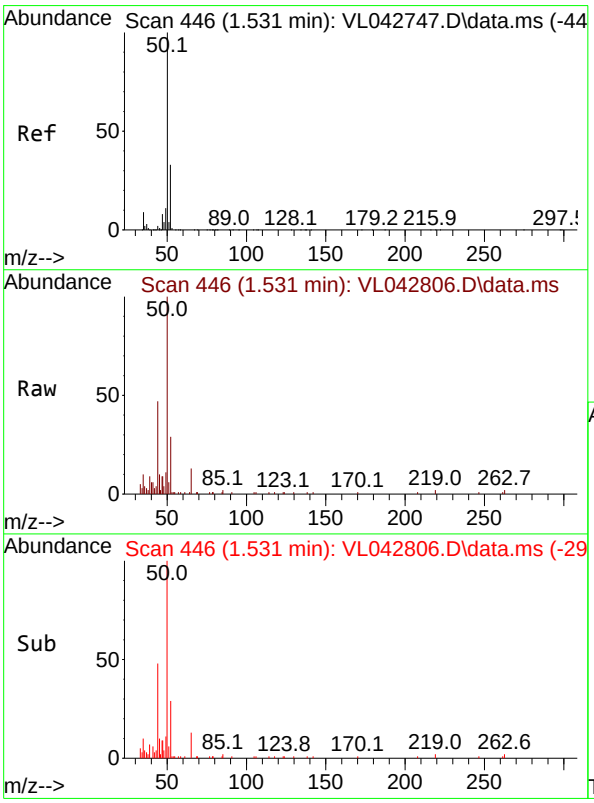
#3
Chlorodifluoromethane
Concen: 48.209 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 51 Resp: 1351589

Ion	Ratio	Lower	Upper
51	100		
67	23.3	15.0	22.6#

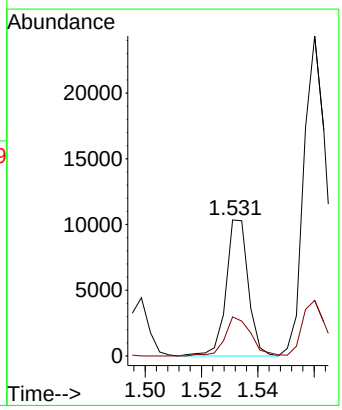


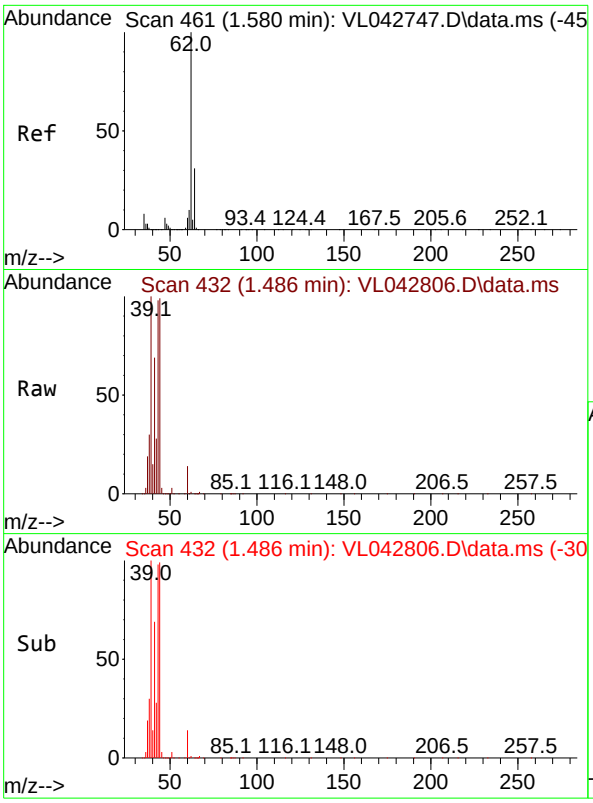


#4
Chloromethane
Concen: 0.654 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 50 Resp: 5691

Ion	Ratio	Lower	Upper
50	100		
52	28.7	26.6	40.0



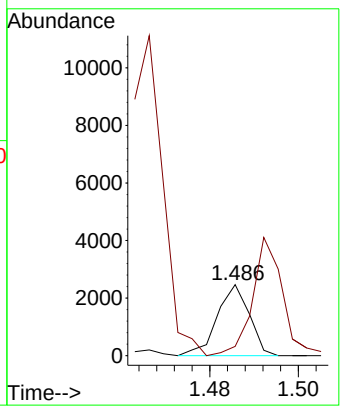


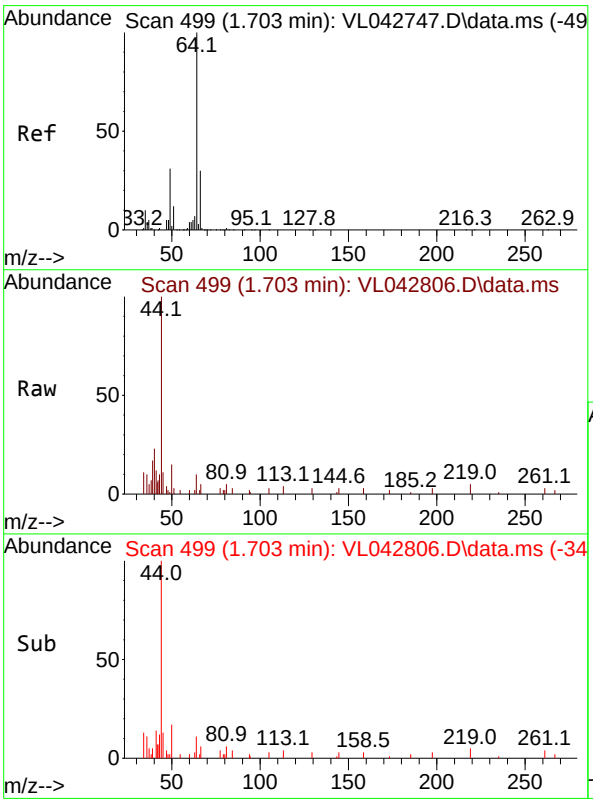
#5
Vinyl Chloride
Concen: 0.144 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.094 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 62 Resp: 1241

Ion	Ratio	Lower	Upper
62	100		
64	0.0	24.5	36.7#

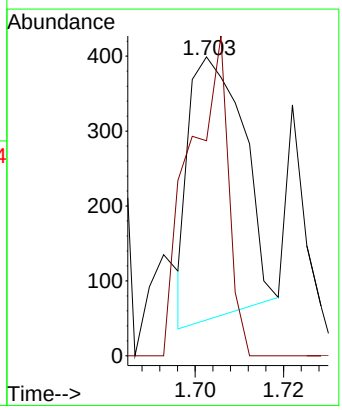


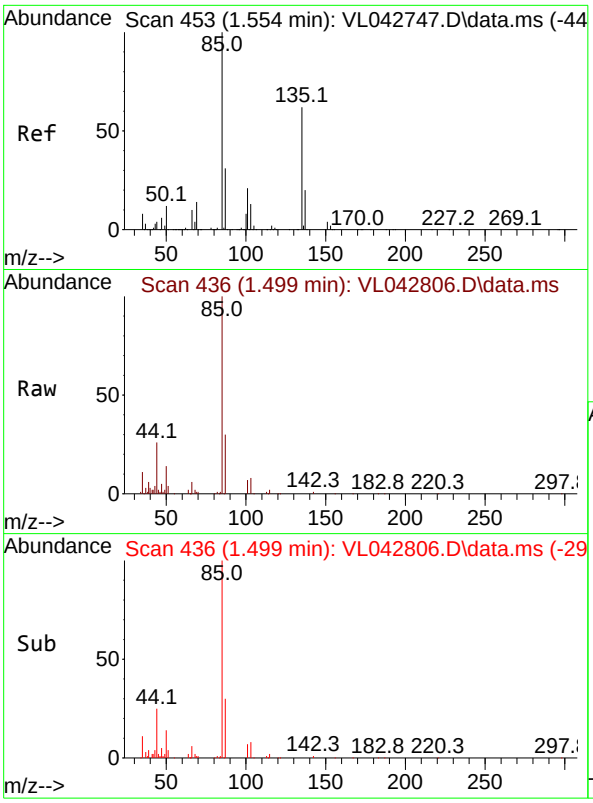


#7
Chloroethane
Concen: 0.090 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 64 Resp: 299

Ion	Ratio	Lower	Upper
64	100		
66	71.9	24.1	36.1#



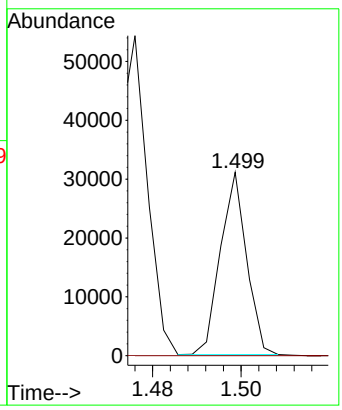


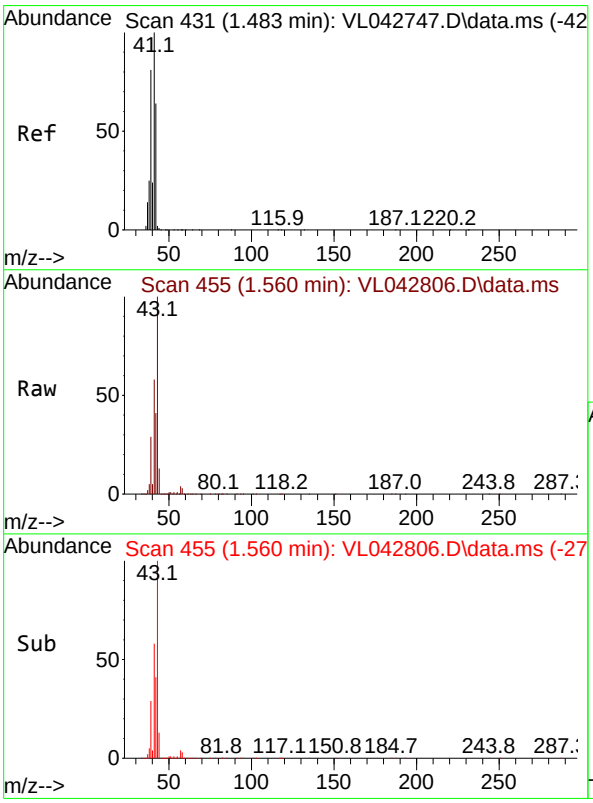
#8
Dichlorotetrafluoroethane
Concen: 0.721 ppbv
RT: 1.499 min Scan# 4
Delta R.T. -0.055 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 85 Resp: 12758

Ion	Ratio	Lower	Upper
85	100		
135	2.3	50.6	76.0#

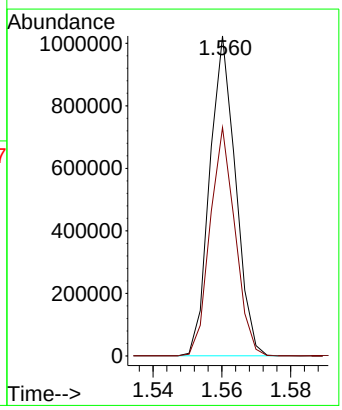


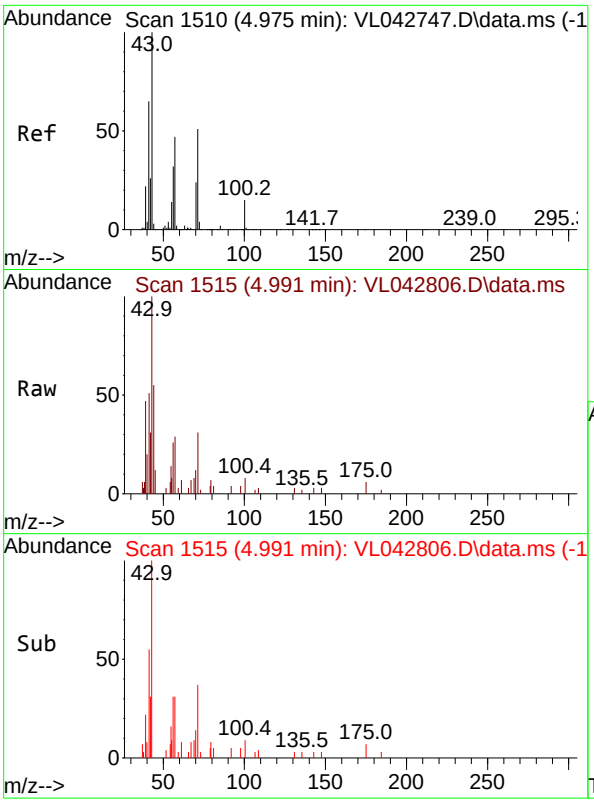


#9
Propene
Concen: 52.249 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.078 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 41 Resp: 532400

Ion	Ratio	Lower	Upper
41	100		
42	69.5	53.2	79.8



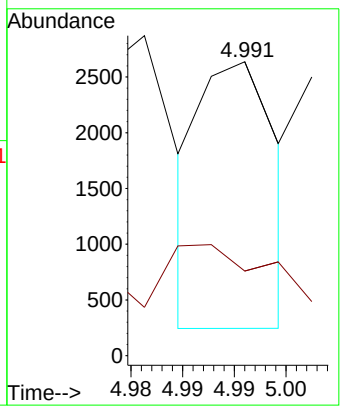


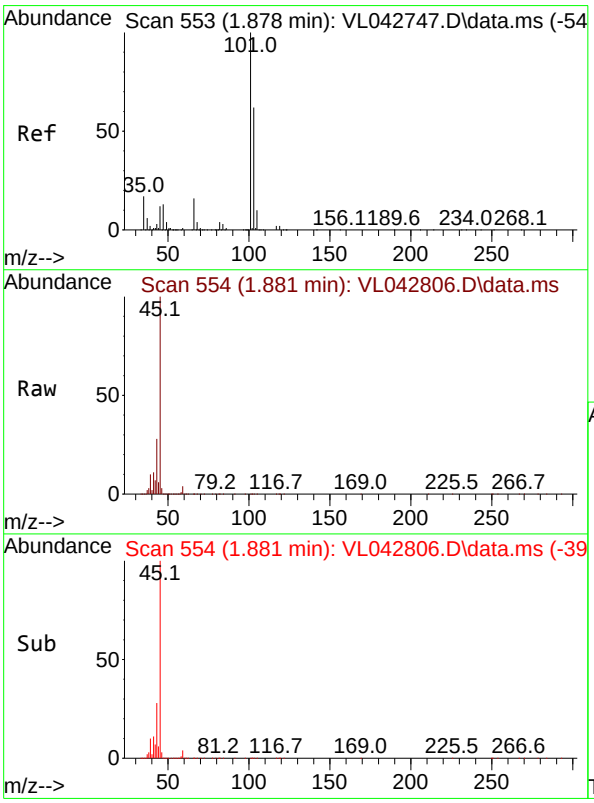
#10
Heptane
Concen: 0.045 ppbv
RT: 4.991 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 43 Resp: 1224

Ion	Ratio	Lower	Upper
43	100		
57	218.1	39.9	59.9#

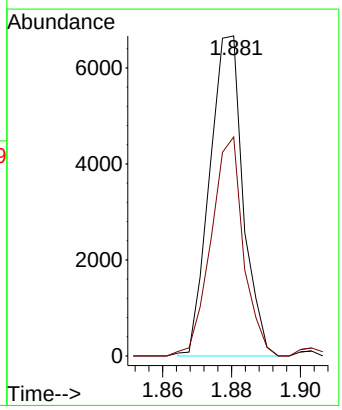


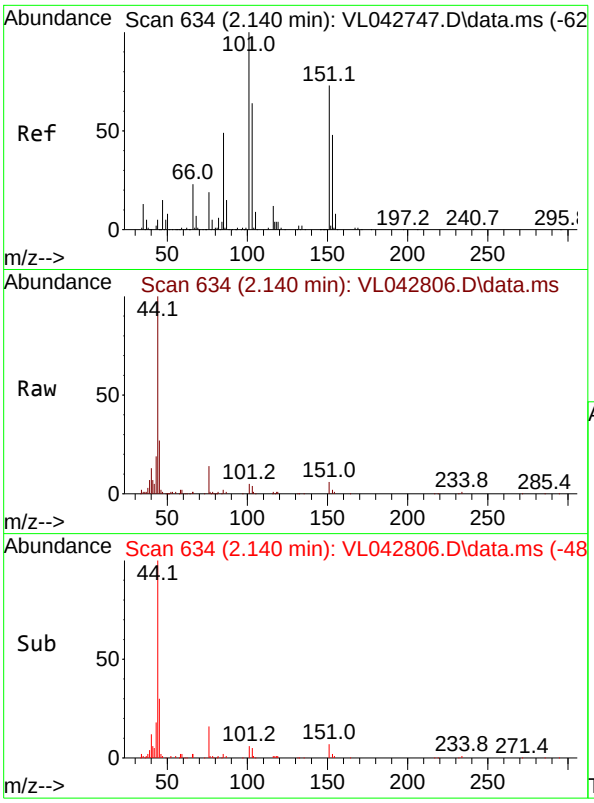


#11
Trichlorofluoromethane
Concen: 0.203 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion:101 Resp: 4494

Ion	Ratio	Lower	Upper
101	100		
103	68.4	49.6	74.4



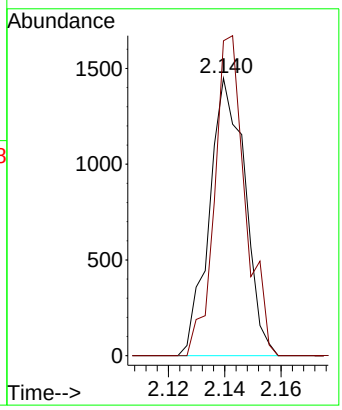


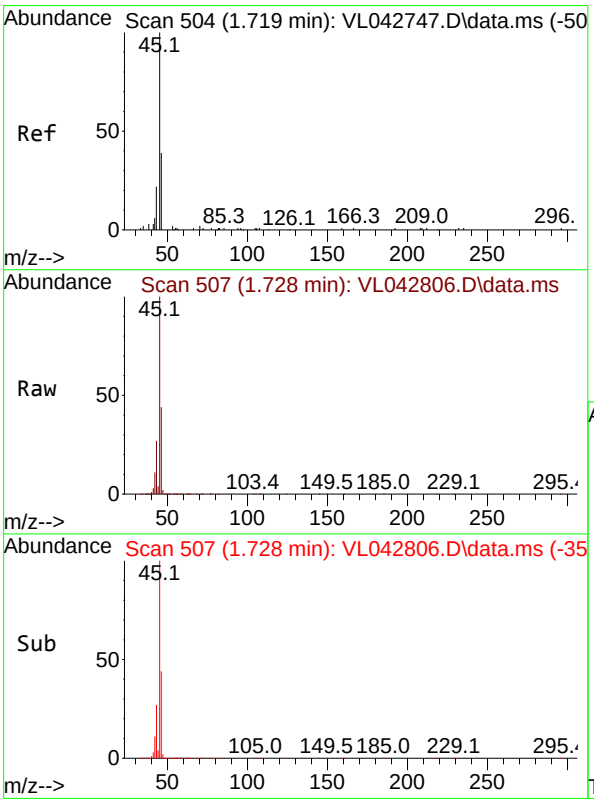
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.076 ppbv
RT: 2.140 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion:101 Resp: 1274

Ion	Ratio	Lower	Upper
101	100		
151	99.4	60.5	90.7#

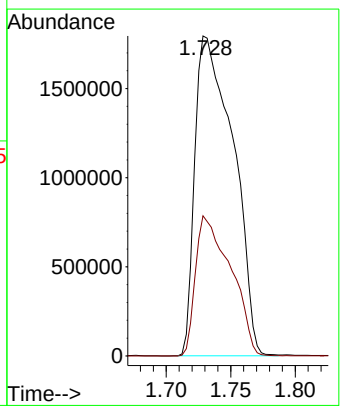


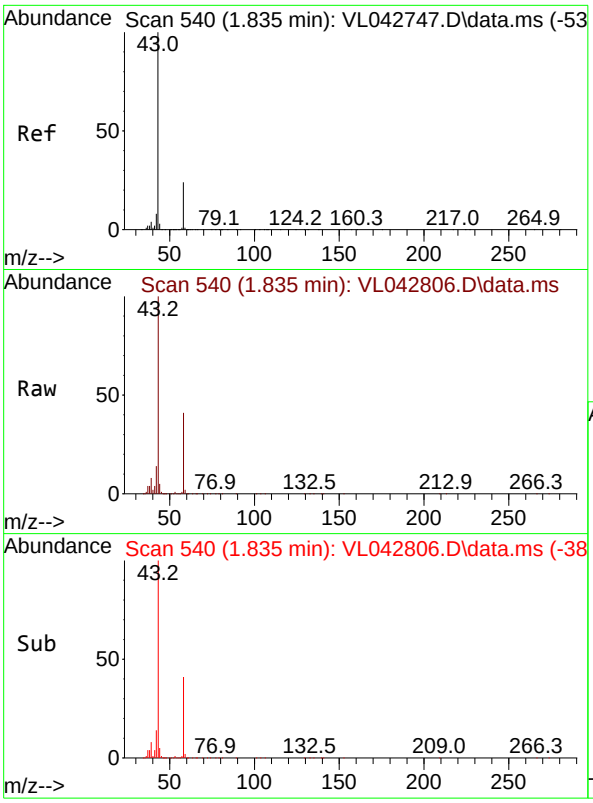


#13
Ethanol
Concen: 4986.827 ppbv
RT: 1.728 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 45 Resp: 3700748

Ion	Ratio	Lower	Upper
45	100		
46	40.5	17.8	71.4



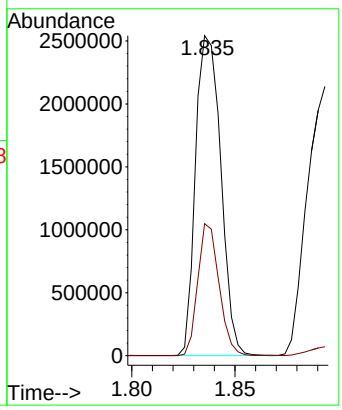


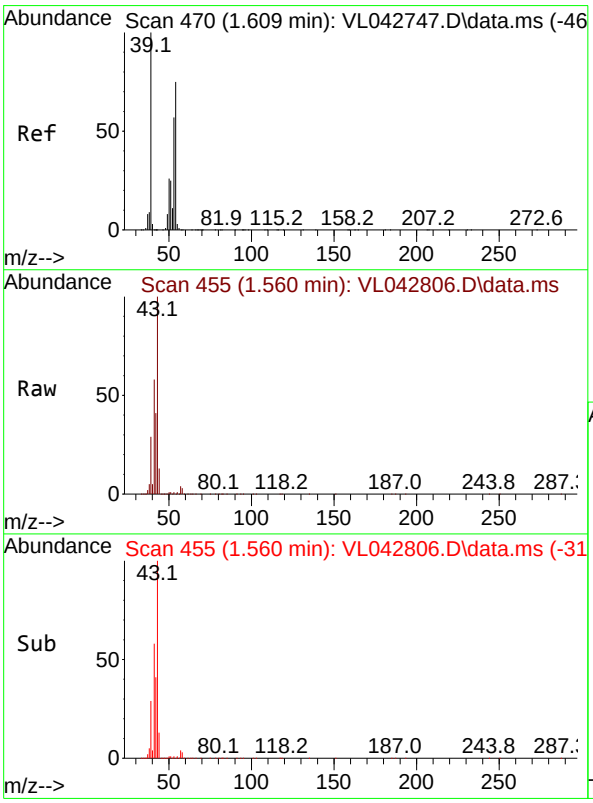
#15
Acetone
Concen: 95.918 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 43 Resp: 2155988

Ion	Ratio	Lower	Upper
43	100		
58	34.9	19.8	29.8#

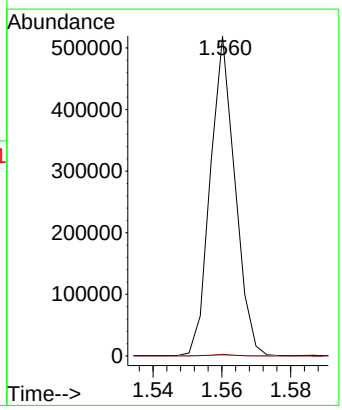


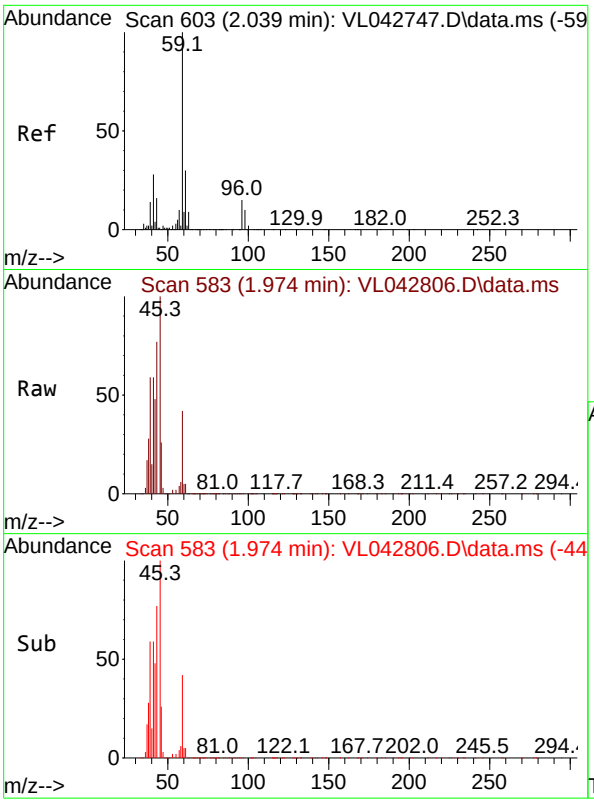


#16
1,3-Butadiene
Concen: 26.967 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.049 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 39 Resp: 258545

Ion	Ratio	Lower	Upper
39	100		
54	0.5	54.5	81.7#



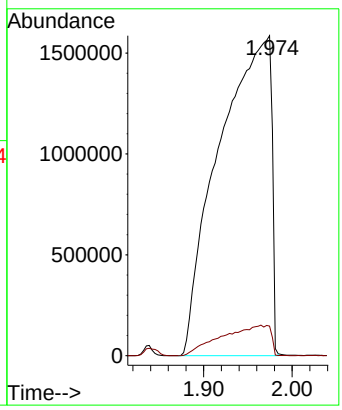


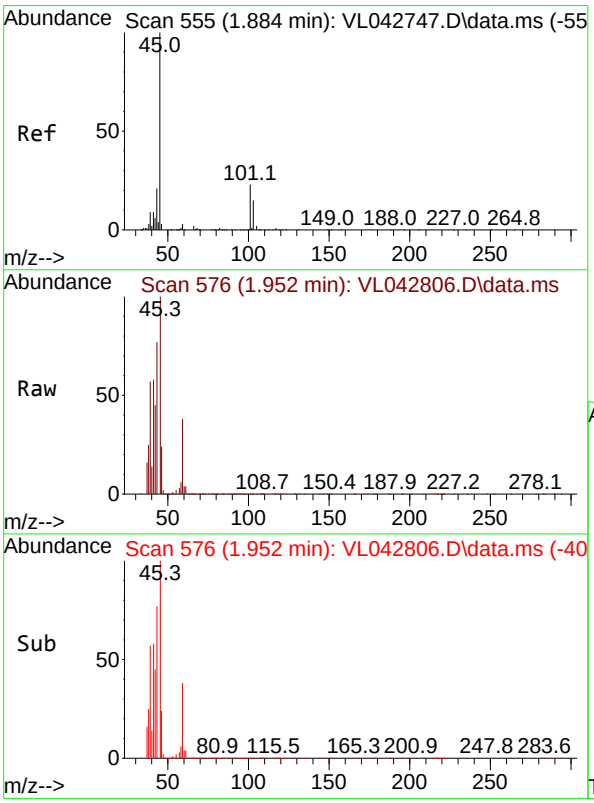
#17
tert-Butyl alcohol
Concen: 319.767 ppbv
RT: 1.974 min Scan# 5
Delta R.T. -0.065 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 59 Resp: 6482411

Ion	Ratio	Lower	Upper
59	100		
57	9.0	8.3	12.5

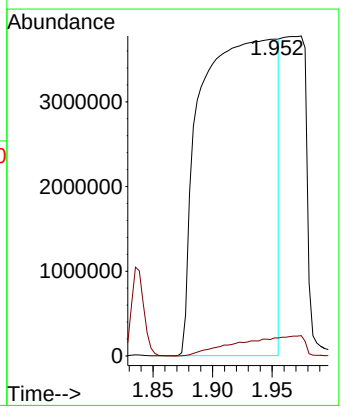


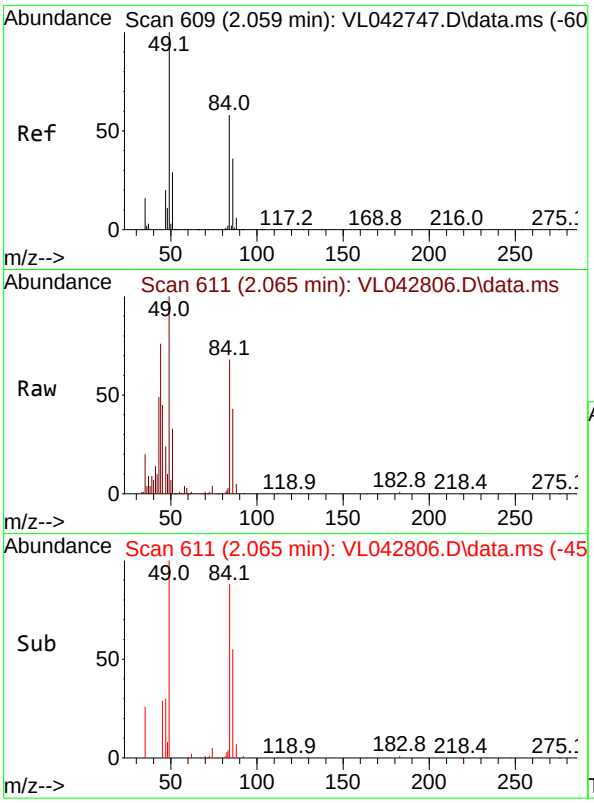


#19
Isopropyl Alcohol
Concen: 1360.710 ppbv
RT: 1.952 min Scan# 576
Delta R.T. 0.068 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 45 Resp:16253330

Ion	Ratio	Lower	Upper
45	100		
58	0.0	30.0	45.0#



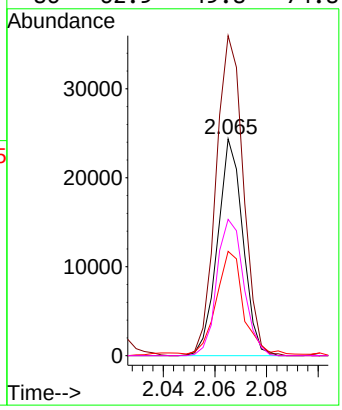


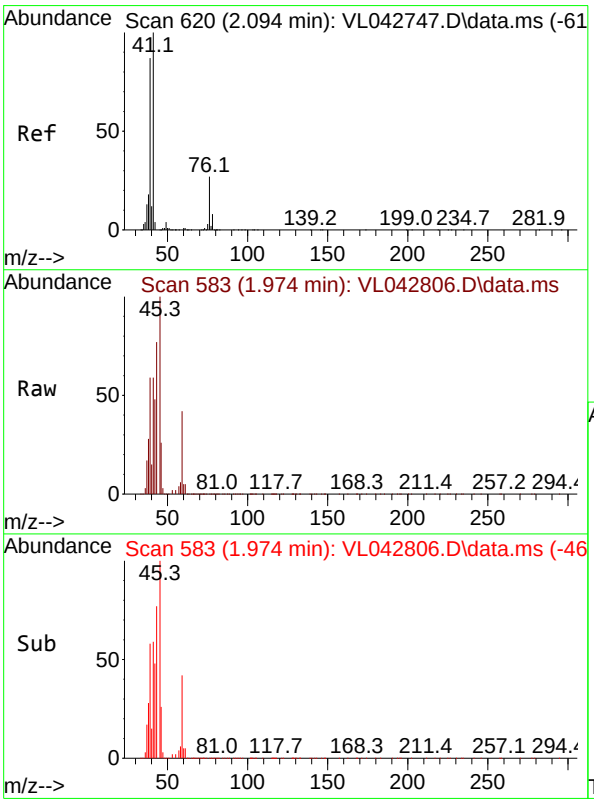
#20
Methylene Chloride
Concen: 2.345 ppbv
RT: 2.065 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 84 Resp: 16608

Ion	Ratio	Lower	Upper
84	100		
49	147.6	138.6	208.0
51	46.9	40.6	61.0
86	62.9	49.8	74.8

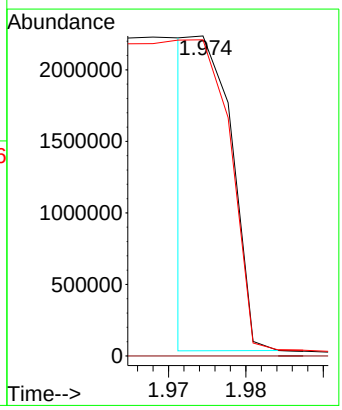


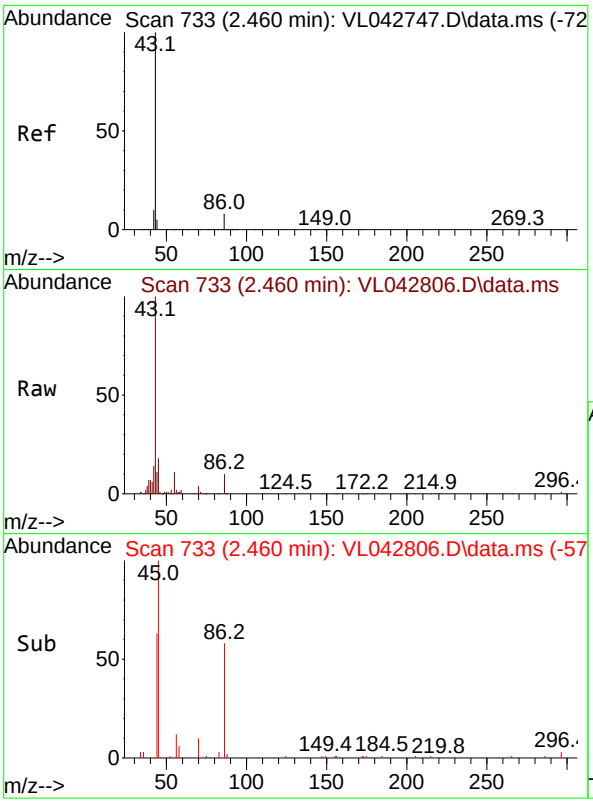


#21
Allyl Chloride
Concen: 56.084 ppbv
RT: 1.974 min Scan# 583
Delta R.T. -0.120 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 41 Resp: 776946

Ion	Ratio	Lower	Upper
41	100		
76	6.0	21.1	31.7#
39	1326.7	68.3	102.5#



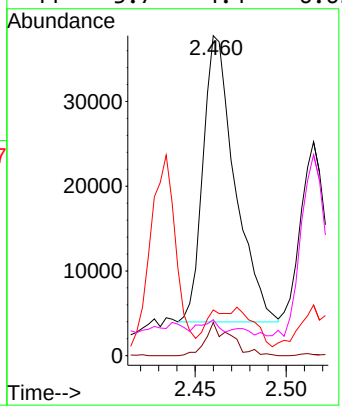


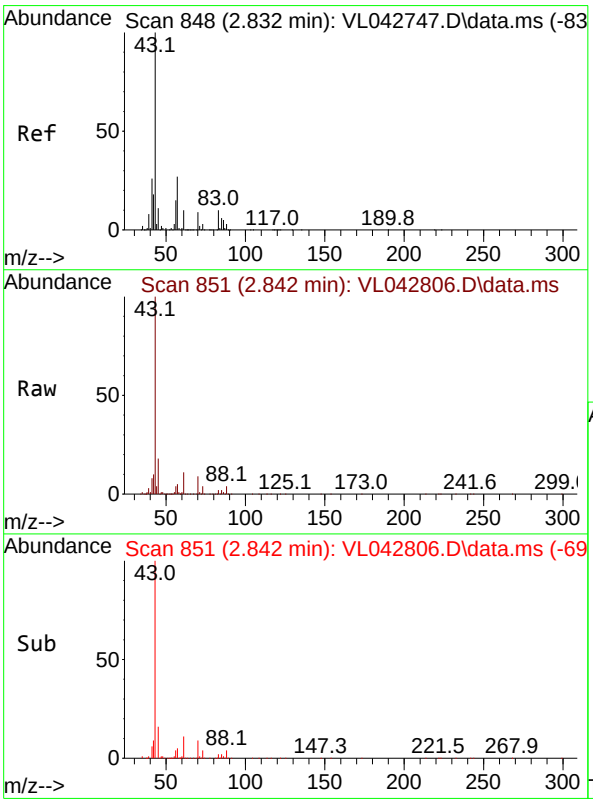
#23
Vinyl Acetate
Concen: 1.510 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 43 Resp: 41161

Ion	Ratio	Lower	Upper
43	100		
86	11.6	6.1	9.1#
42	11.5	7.8	11.8
44	3.7	4.4	6.6#

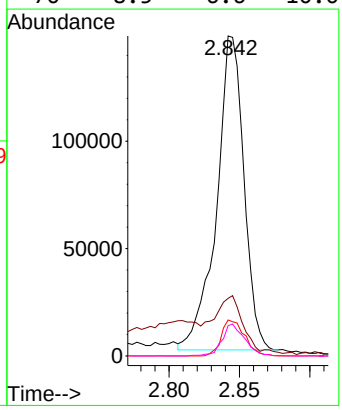


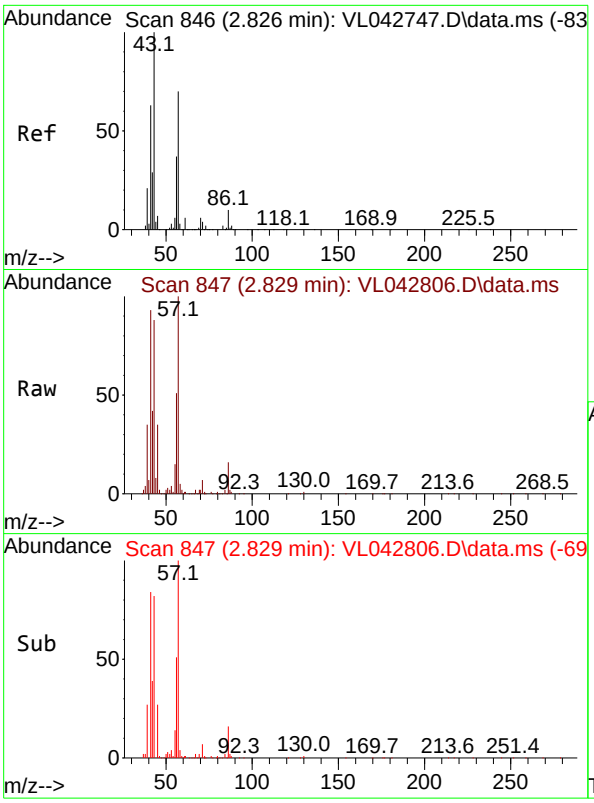


#25
Ethyl Acetate
Concen: 3.983 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 43 Resp: 198191

Ion	Ratio	Lower	Upper
43	100		
45	50.1	7.8	11.6#
61	9.8	6.7	10.1
70	8.5	6.6	10.0



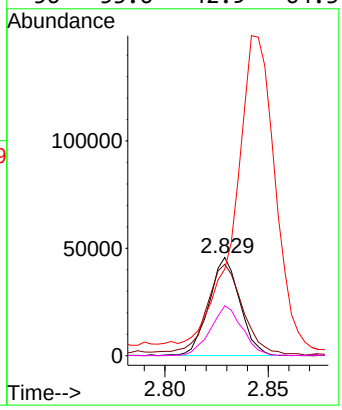


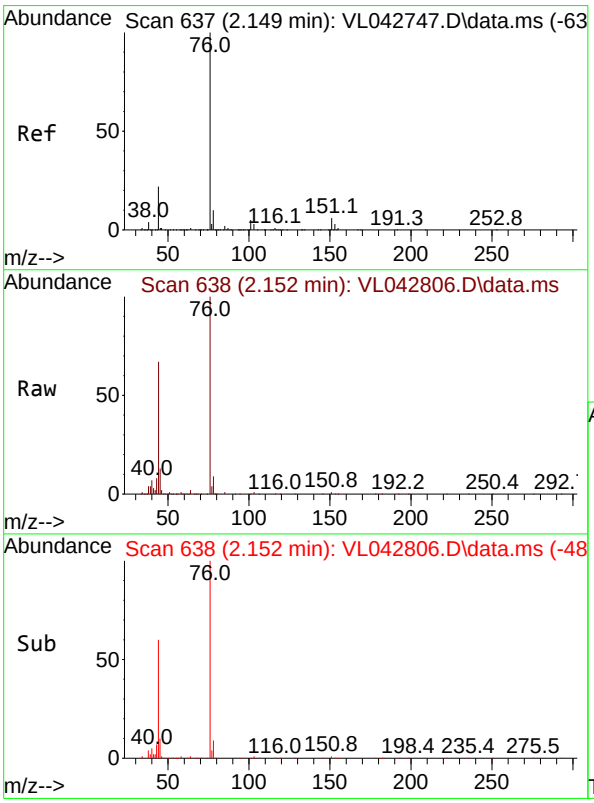
#26
Hexane
Concen: 2.163 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 57 Resp: 47214

Ion	Ratio	Lower	Upper
57	100		
41	112.6	75.4	113.2
43	491.6	185.0	277.6#
56	53.6	42.9	64.3

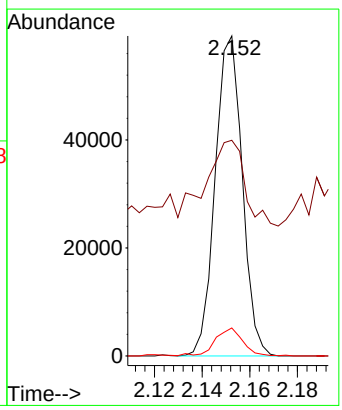


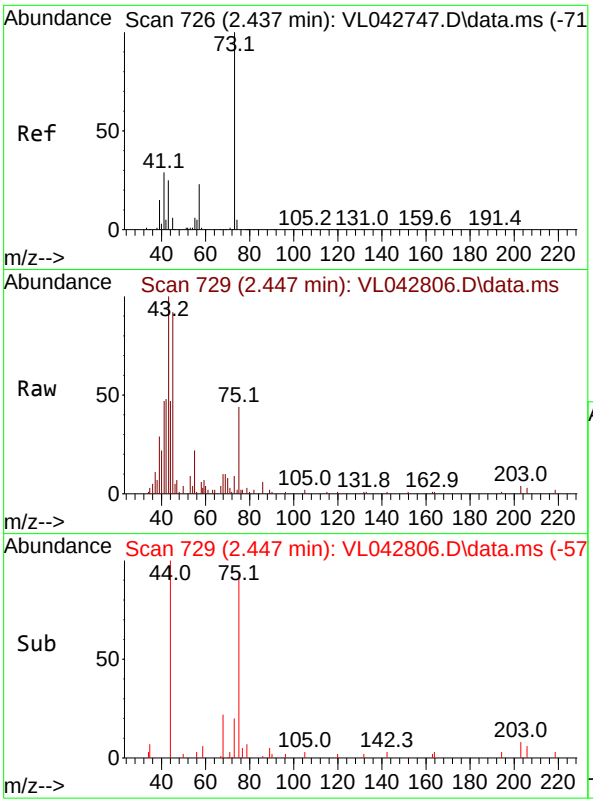


#27
Carbon Disulfide
Concen: 2.499 ppbv
RT: 2.152 min Scan# 638
Delta R.T. 0.003 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 76 Resp: 46700

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.3	9.9	14.9#



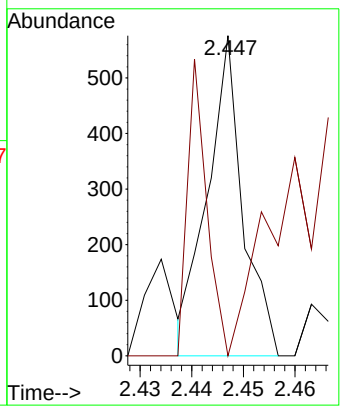


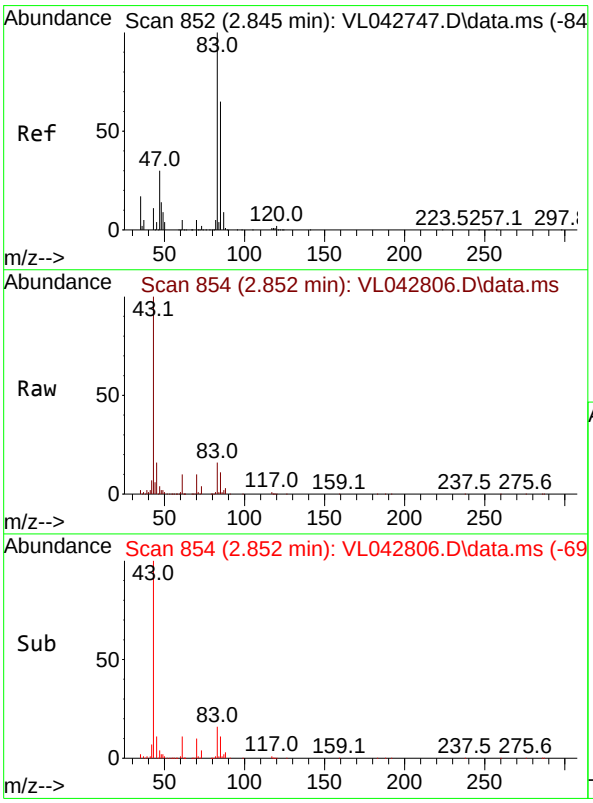
#28
Methyl tert-Butyl Ether
Concen: 0.026 ppbv
RT: 2.447 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 73 Resp: 273

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.8	29.8#

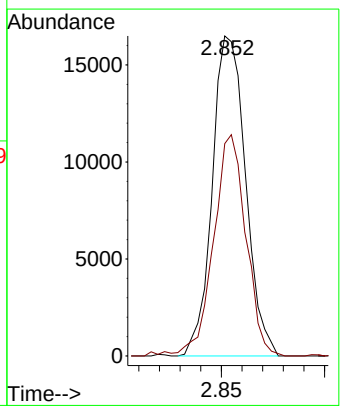


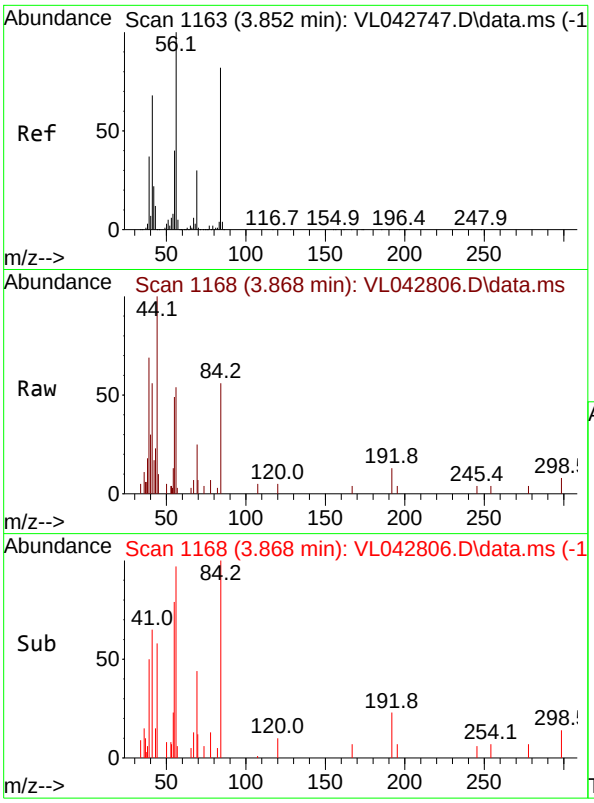


#29
Chloroform
Concen: 0.548 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 83 Resp: 18480

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.2	78.2



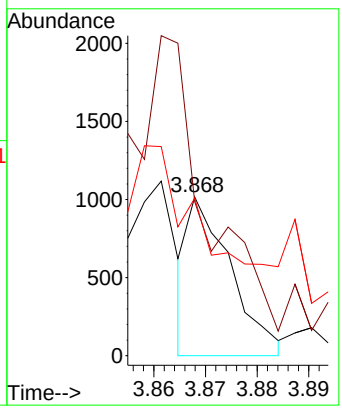


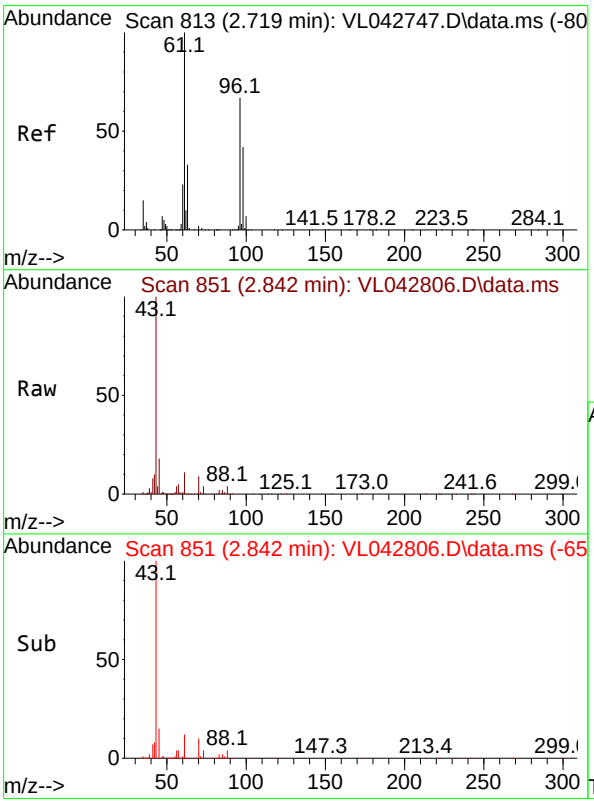
#30
Cyclohexane
Concen: 0.032 ppbv
RT: 3.868 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 84 Resp: 589

Ion	Ratio	Lower	Upper
84	100		
56	0.0	97.5	146.3#
41	0.0	67.2	100.8#

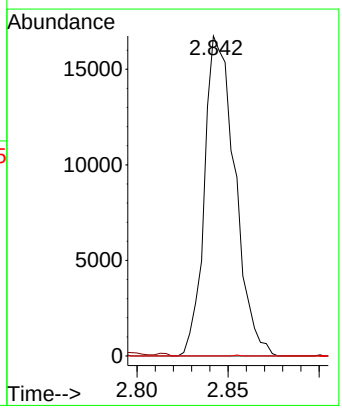


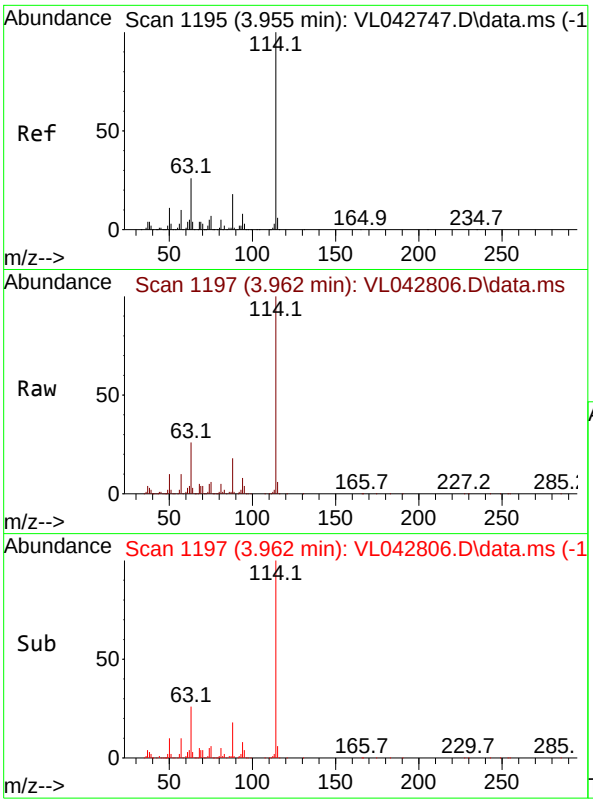


#31
cis-1,2-Dichloroethene
Concen: 0.868 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.123 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 61 Resp: 19473

Ion	Ratio	Lower	Upper
61	100		
96	0.0	53.5	80.3#
98	0.0	33.6	50.4#



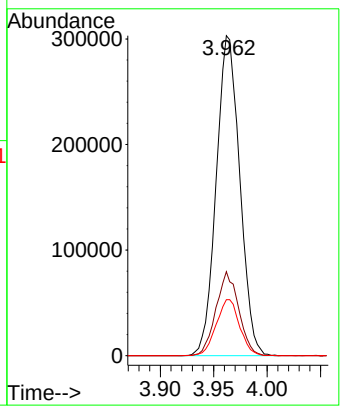


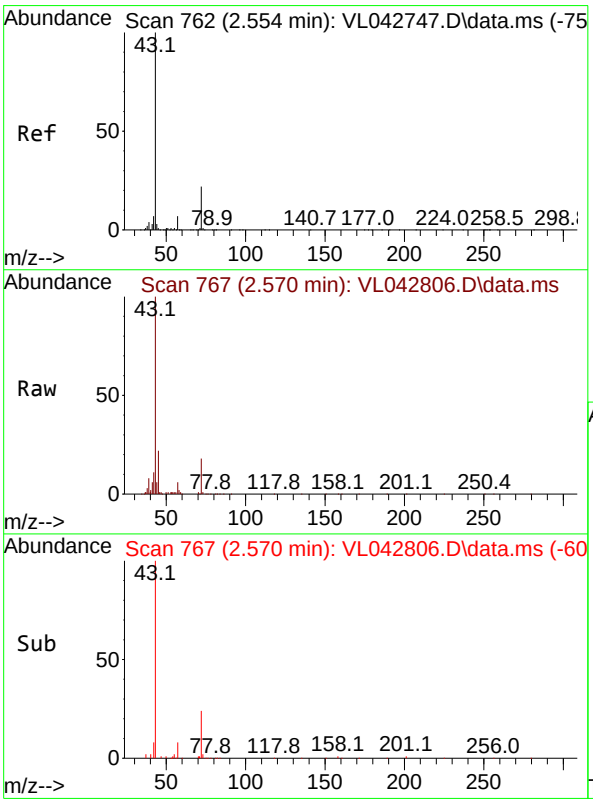
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion:114 Resp: 464881

Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.5	30.7
88	17.4	14.0	21.0

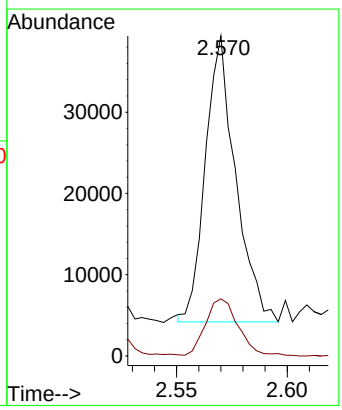


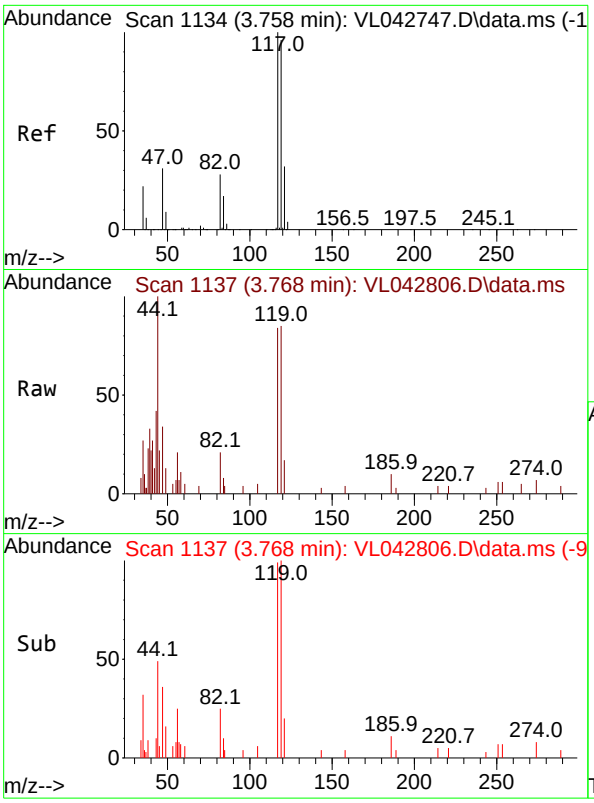


#34
2-Butanone
Concen: 1.012 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.016 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 43 Resp: 33339

Ion	Ratio	Lower	Upper
43	100		
72	21.2	17.4	26.0



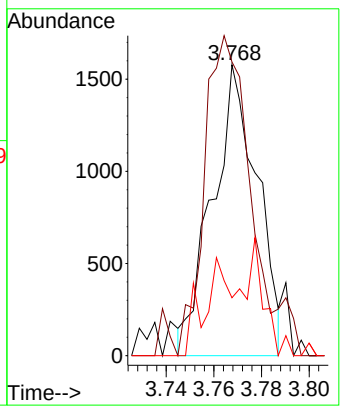


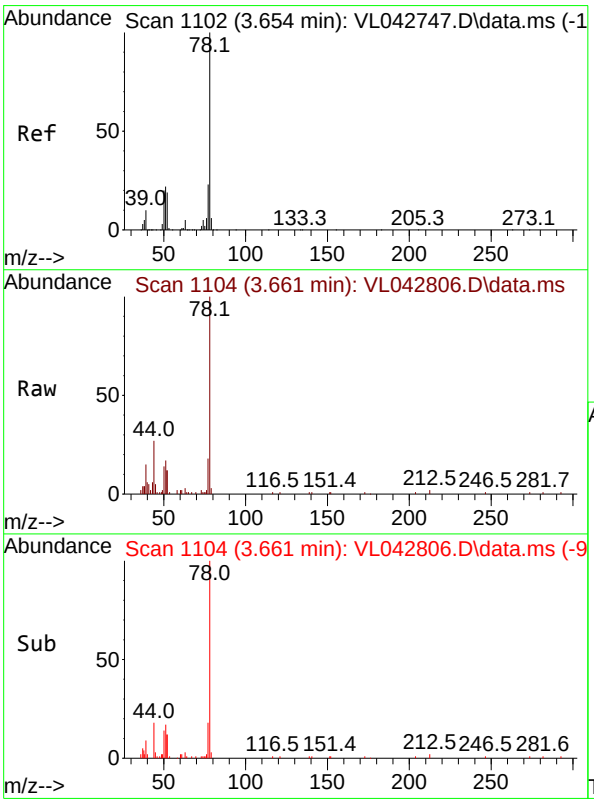
#35
Carbon Tetrachloride
Concen: 0.060 ppbv
RT: 3.768 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion:117 Resp: 2055

Ion	Ratio	Lower	Upper
117	100		
119	111.5	77.1	115.7
121	22.0	25.5	38.3#

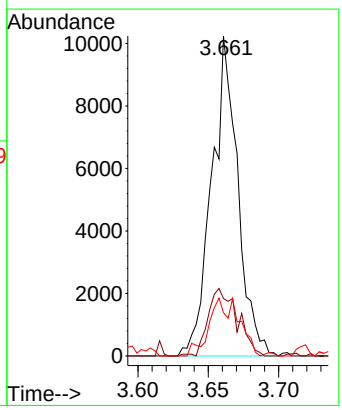


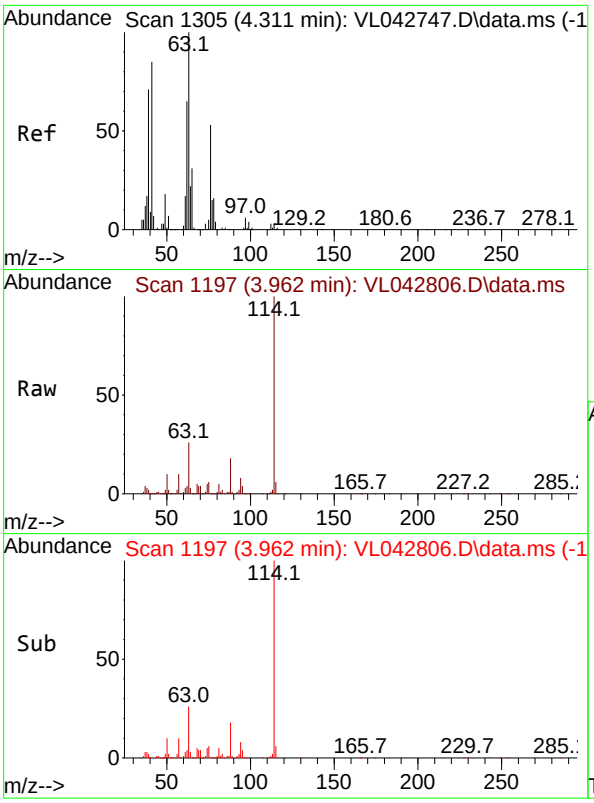


#36
Benzene
Concen: 0.300 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 78 Resp: 13222

Ion	Ratio	Lower	Upper
78	100		
77	17.9	18.5	27.7#
50	13.5	16.2	24.2#



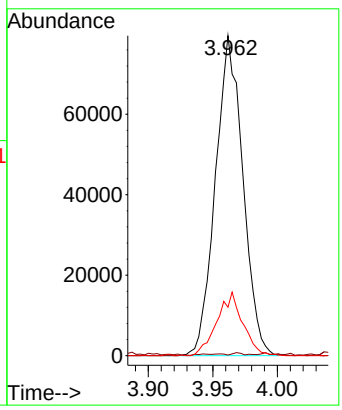


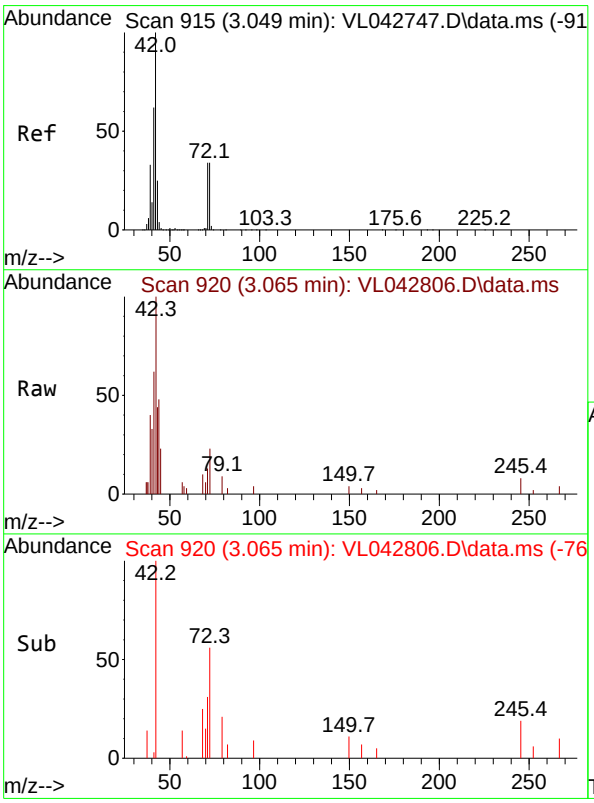
#39
1,2-Dichloropropane
Concen: 7.232 ppbv
RT: 3.962 min Scan# 11
Delta R.T. -0.350 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 63 Resp: 117616

Ion	Ratio	Lower	Upper
63	100		
41	0.0	68.2	102.4#
62	15.2	52.0	78.0#

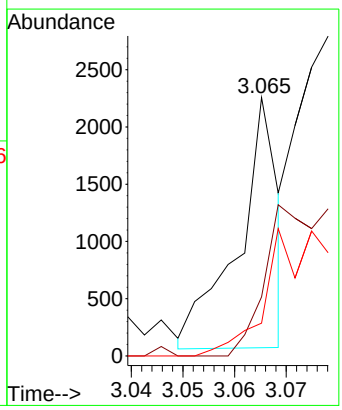


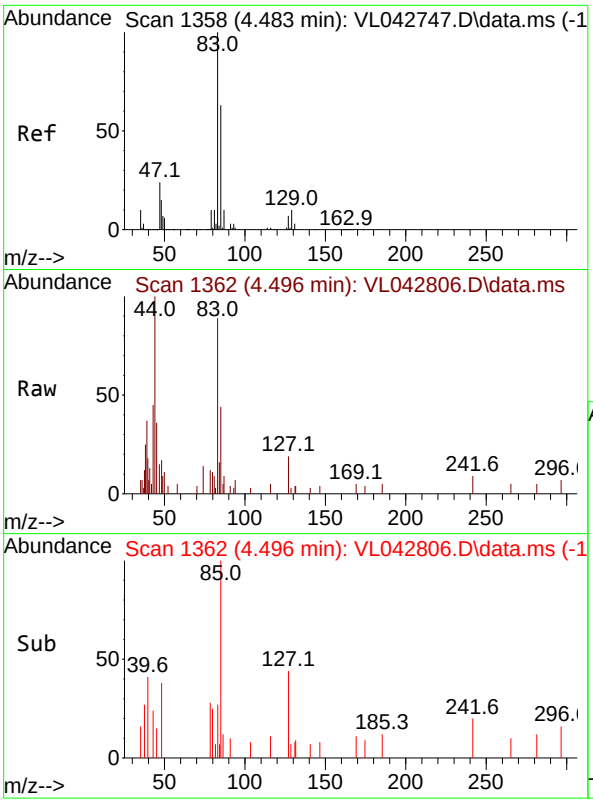


#41
Tetrahydrofuran
Concen: 0.070 ppbv
RT: 3.065 min Scan# 920
Delta R.T. 0.016 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 42 Resp: 1171

Ion	Ratio	Lower	Upper
42	100		
72	137.4	30.9	46.3#
71	117.3	28.6	43.0#



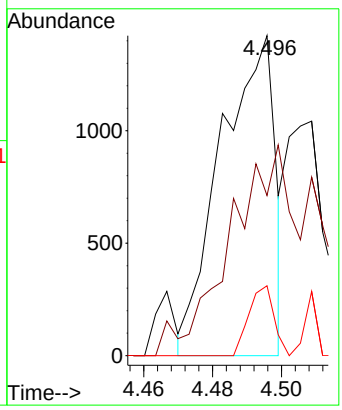


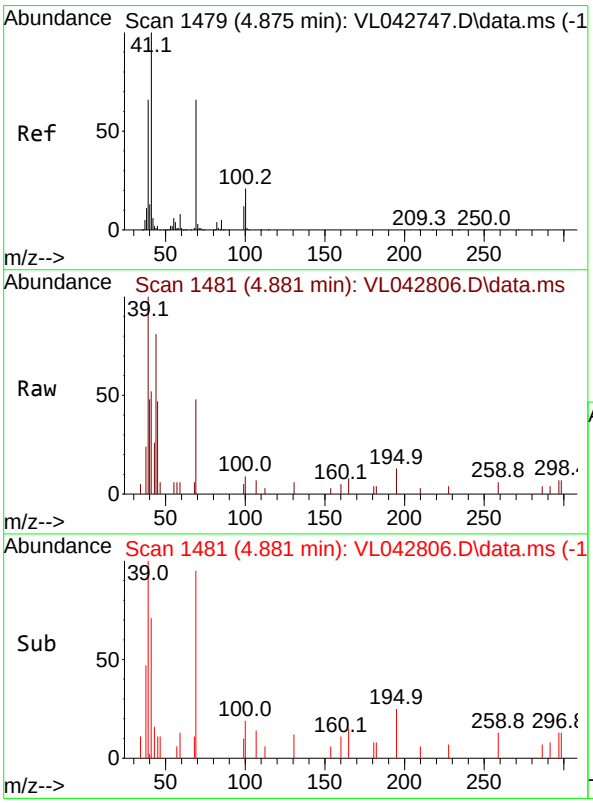
#42
Bromodichloromethane
Concen: 0.045 ppbv
RT: 4.496 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 83 Resp: 1555

Ion	Ratio	Lower	Upper
83	100		
85	48.0	50.2	75.4#
127	23.4	5.4	8.2#

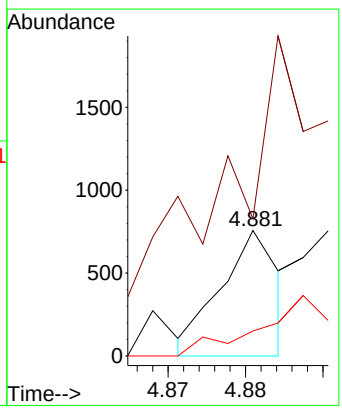


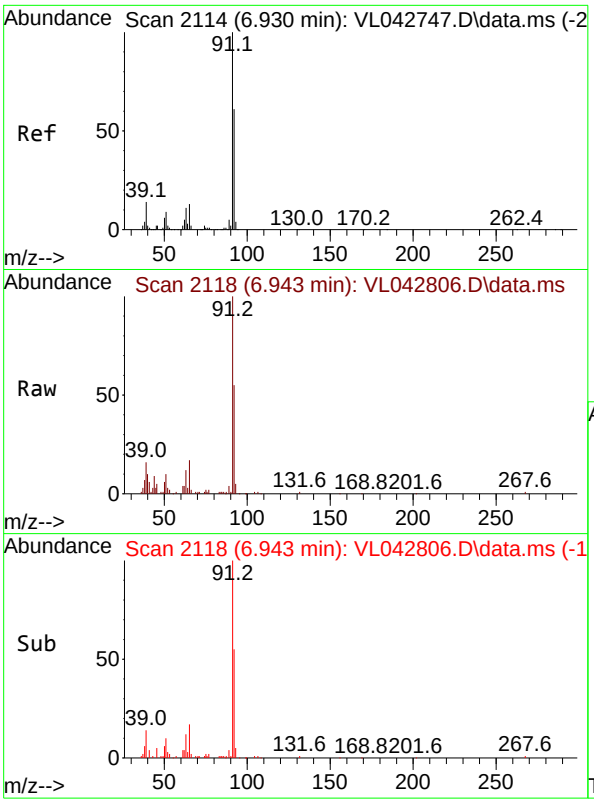


#43
Methyl Methacrylate
Concen: 0.025 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 69 Resp: 391

Ion	Ratio	Lower	Upper
69	100		
41	966.0	125.7	188.5#
100	0.0	28.6	42.8#



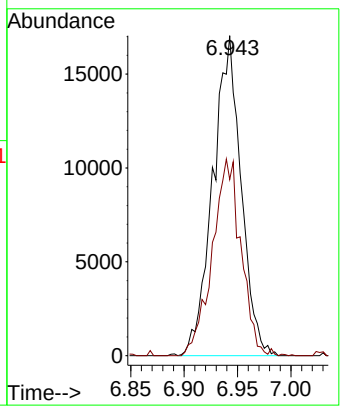


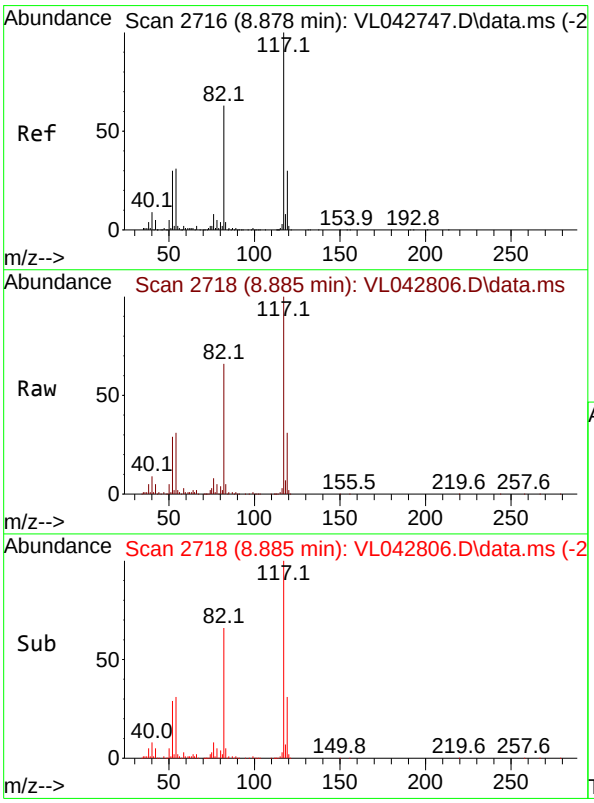
#53
Toluene
Concen: 0.662 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 91 Resp: 31303

Ion	Ratio	Lower	Upper
91	100		
92	62.7	48.0	72.0

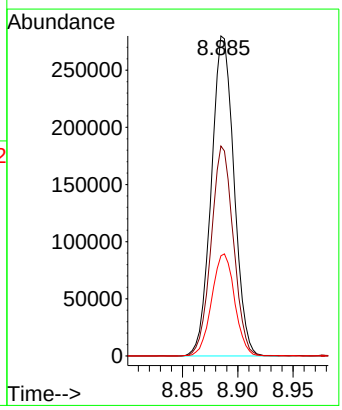


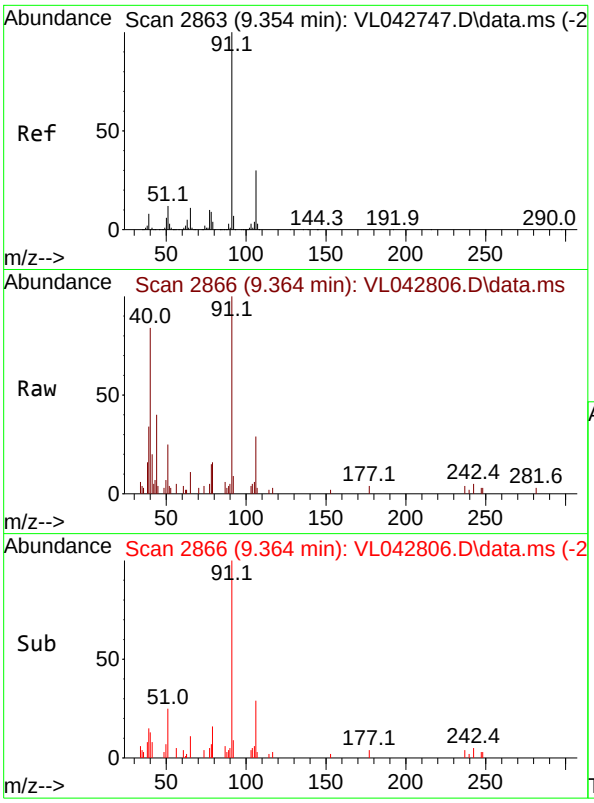


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion:117 Resp: 398366

Ion	Ratio	Lower	Upper
117	100		
82	64.7	53.3	79.9
119	32.5	25.8	38.6



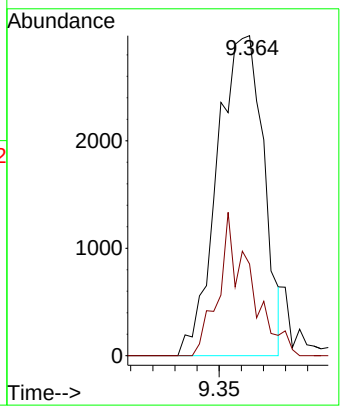


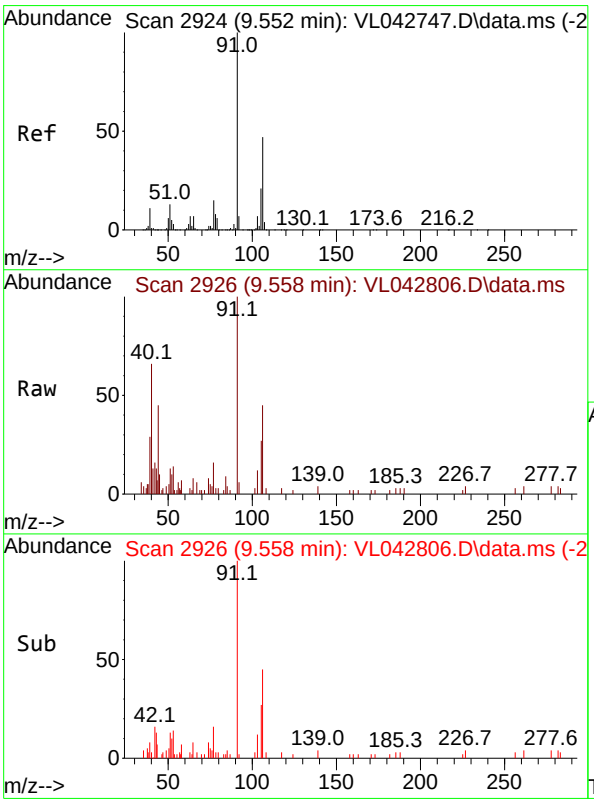
#58
Ethyl Benzene
Concen: 0.069 ppbv
RT: 9.364 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 91 Resp: 4328

Ion	Ratio	Lower	Upper
91	100		
106	28.6	23.8	35.6

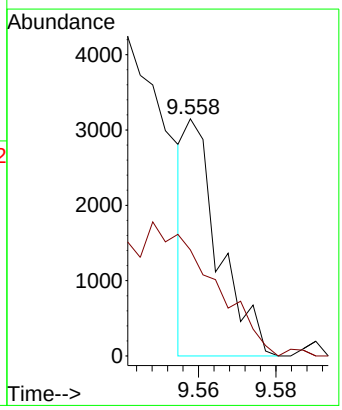


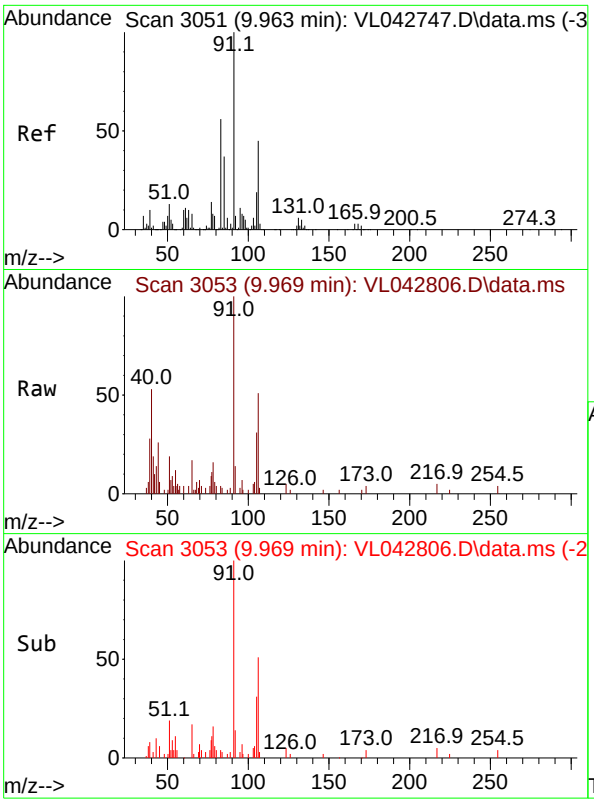


#59
m/p-Xylene
Concen: 0.037 ppbv
RT: 9.558 min Scan# 2926
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 91 Resp: 1884

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#



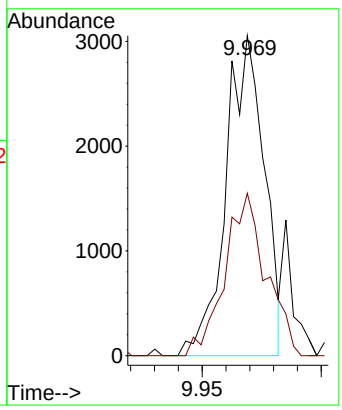


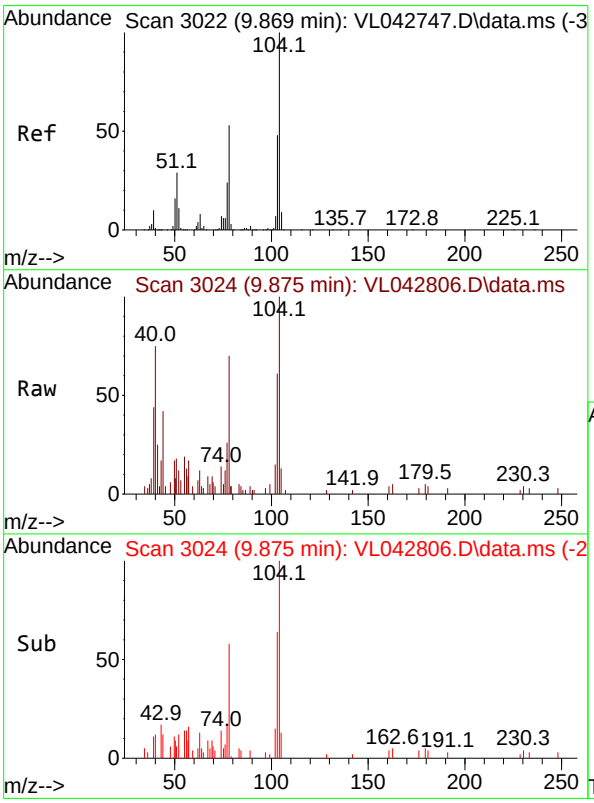
#60
o-Xylene
Concen: 0.068 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 91 Resp: 3412

Ion	Ratio	Lower	Upper
91	100		
106	56.0	22.0	66.0

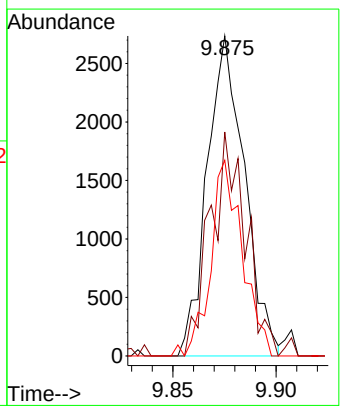


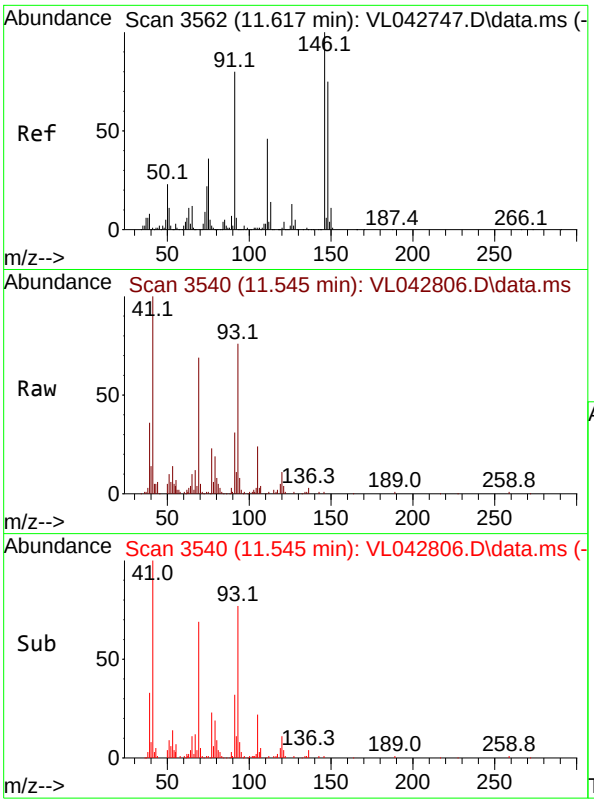


#61
Styrene
Concen: 0.163 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion:104 Resp: 3442

Ion	Ratio	Lower	Upper
104	100		
78	67.5	41.5	62.3#
103	51.6	37.5	56.3



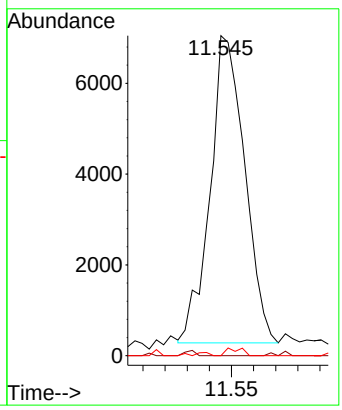


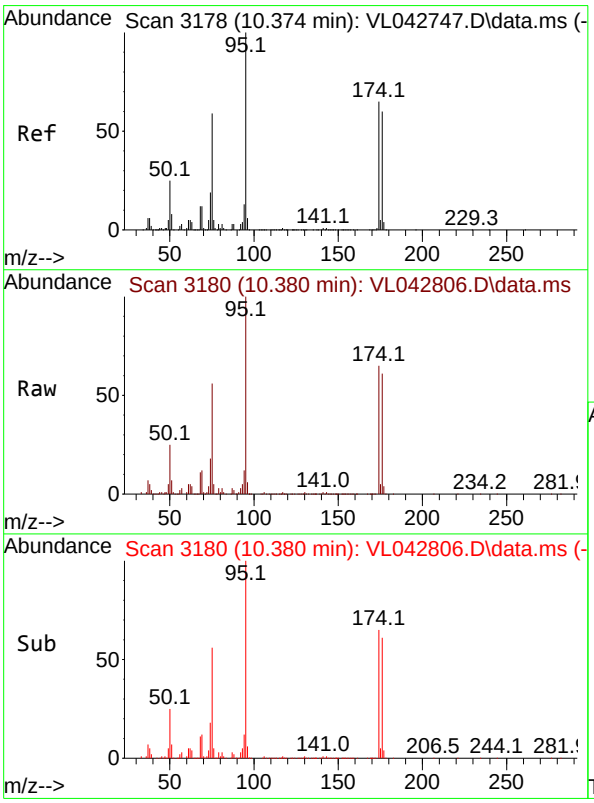
#66
Benzyl Chloride
Concen: 1.360 ppbv
RT: 11.545 min Scan# 3
Delta R.T. -0.071 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 91 Resp: 7350

Ion	Ratio	Lower	Upper
91	100		
126	0.7	14.4	21.6#
128	1.5	5.2	7.8#

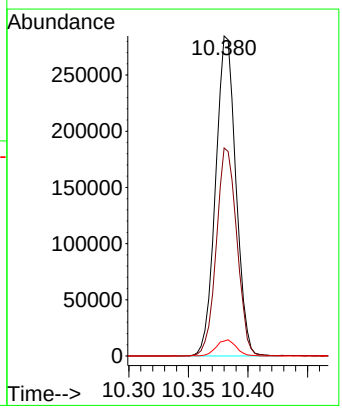


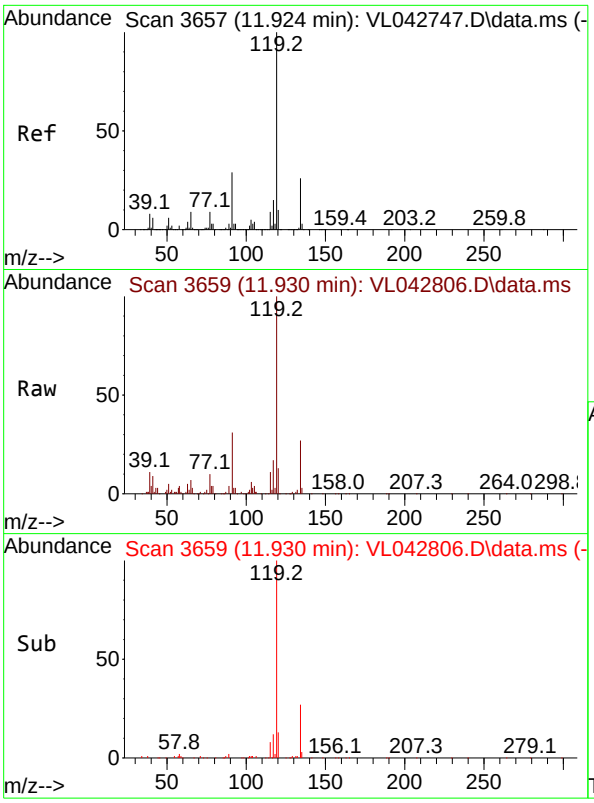


#68
1-Bromo-4-Fluorobenzene
Concen: 10.648 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 95 Resp: 335920

Ion	Ratio	Lower	Upper
95	100		
174	65.9	53.8	80.6
175	5.0	4.0	6.0



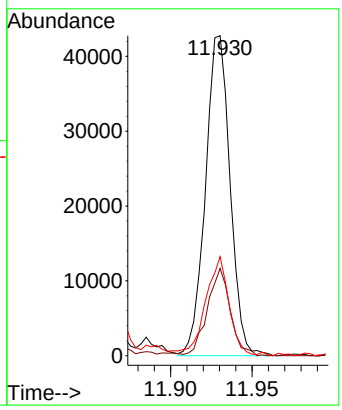


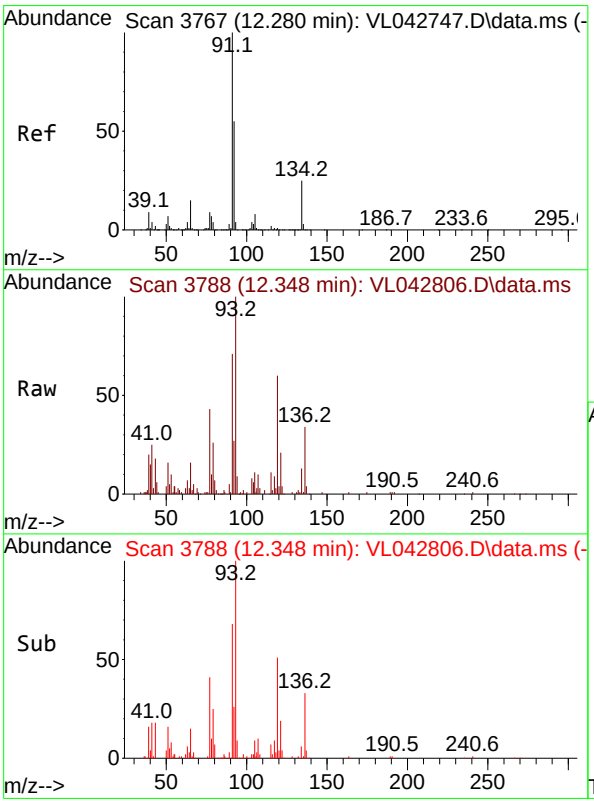
#69
p-Isopropyltoluene
Concen: 0.590 ppbv
RT: 11.930 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion:119 Resp: 45031

Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.6	31.0
91	30.4	23.2	34.8

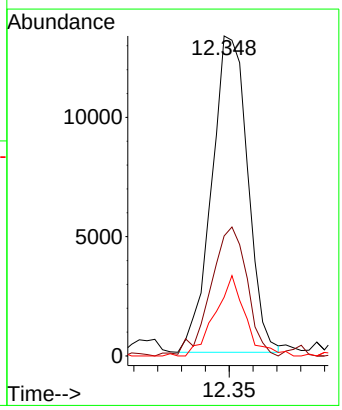


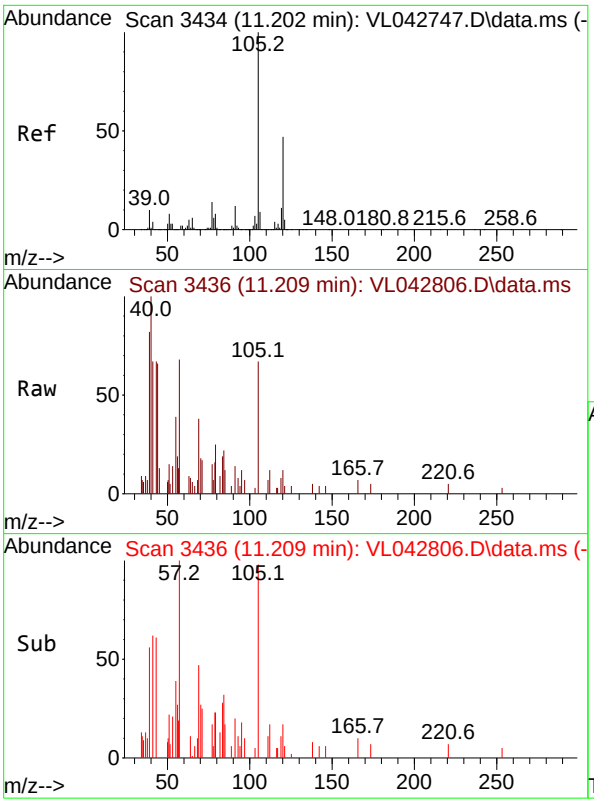


#70
n-Butylbenzene
Concen: 0.188 ppbv
RT: 12.348 min Scan# 3788
Delta R.T. 0.068 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 91 Resp: 13894

Ion	Ratio	Lower	Upper
91	100		
92	42.8	43.4	65.2#
134	21.6	19.6	29.4



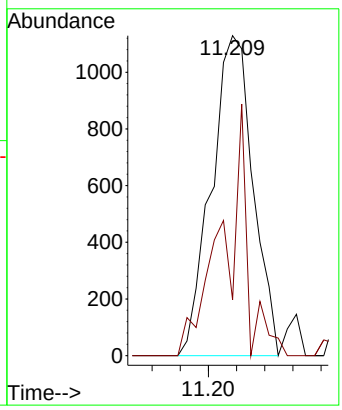


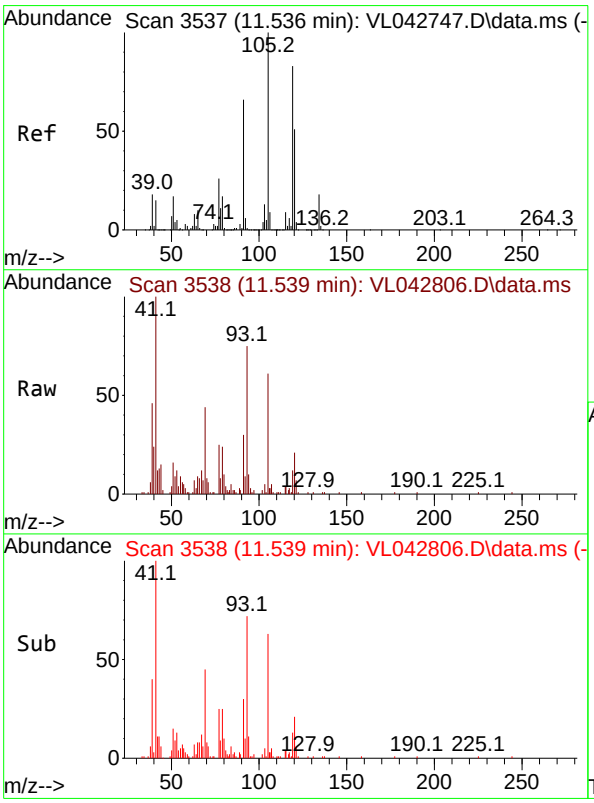
#73
1,3,5-Trimethylbenzene
Concen: 0.023 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion:105 Resp: 1158

Ion	Ratio	Lower	Upper
105	100		
120	17.4	37.8	56.8#

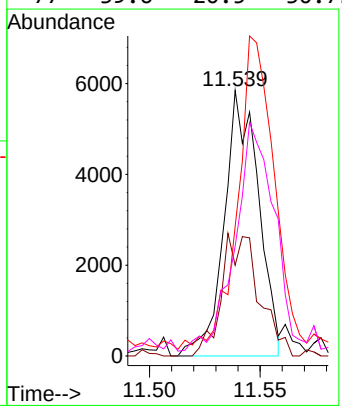


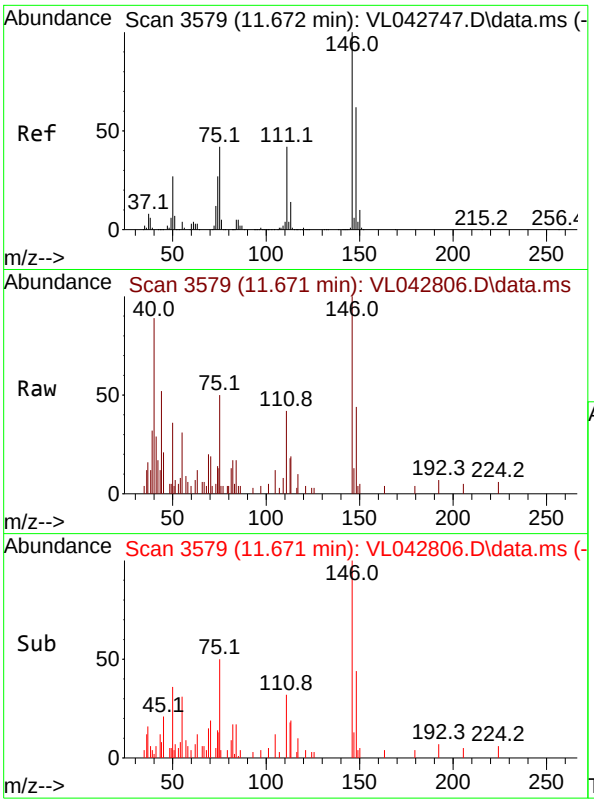


#74
1,2,4-Trimethylbenzene
Concen: 0.117 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion:105 Resp: 6323

Ion	Ratio	Lower	Upper
105	100		
120	34.2	40.8	61.2#
91	46.3	53.0	79.4#
77	39.6	20.5	30.7#



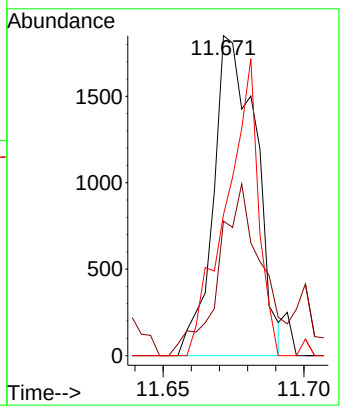


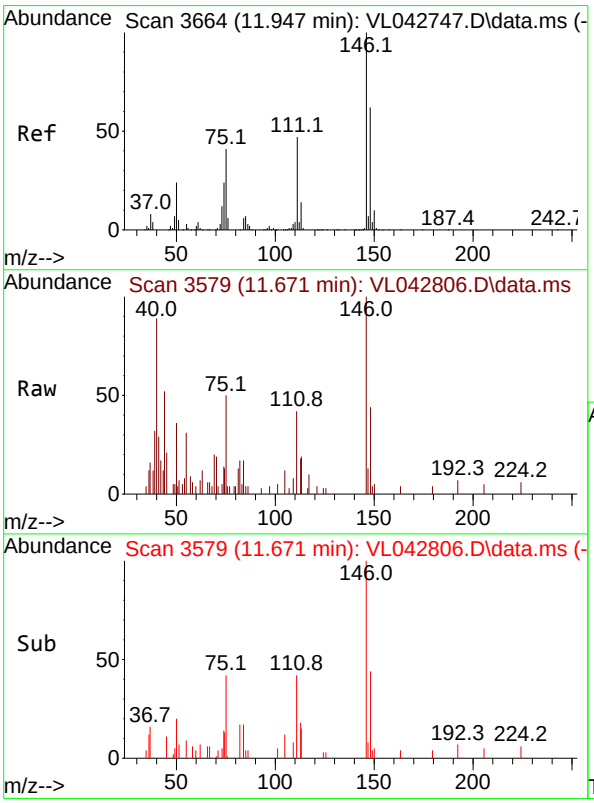
#76
1,4-Dichlorobenzene
Concen: 0.052 ppbv
RT: 11.671 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion:146 Resp: 1937

Ion	Ratio	Lower	Upper
146	100		
111	67.6	21.4	64.2#
148	71.7	32.1	96.3

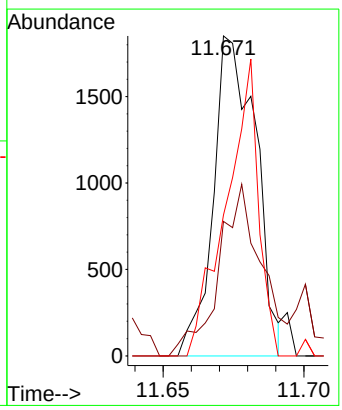


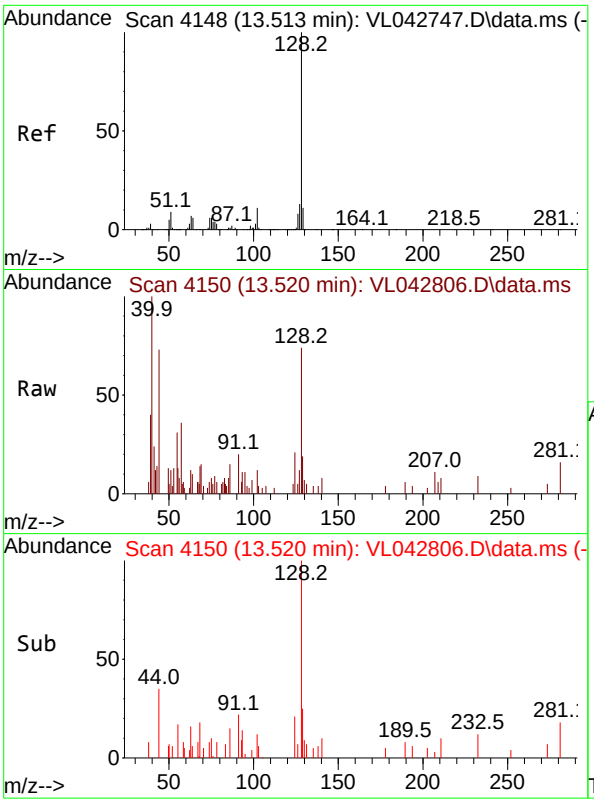


#77
1,2-Dichlorobenzene
Concen: 0.052 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.275 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion:146 Resp: 1937

Ion	Ratio	Lower	Upper
146	100		
111	67.3	23.7	71.1
148	71.7	32.6	97.7



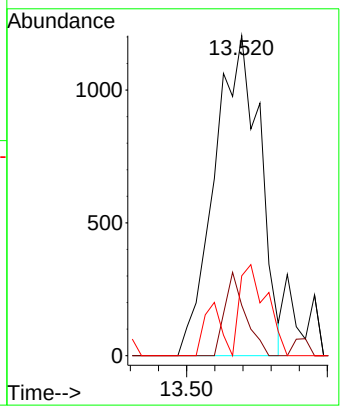


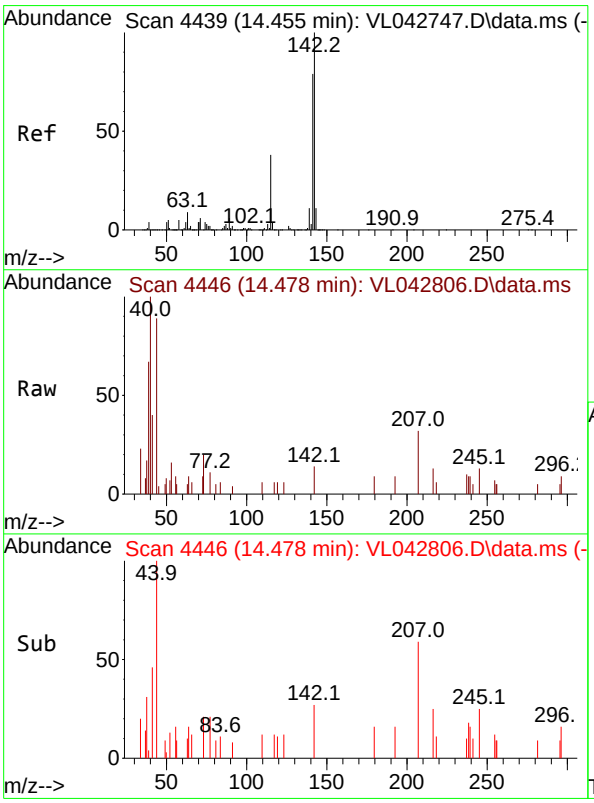
#79
Naphthalene
Concen: 0.457 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion:128 Resp: 1344

Ion	Ratio	Lower	Upper
128	100		
127	15.8	10.5	15.7#
129	25.0	8.6	13.0#

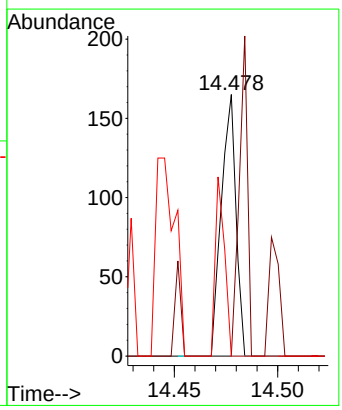


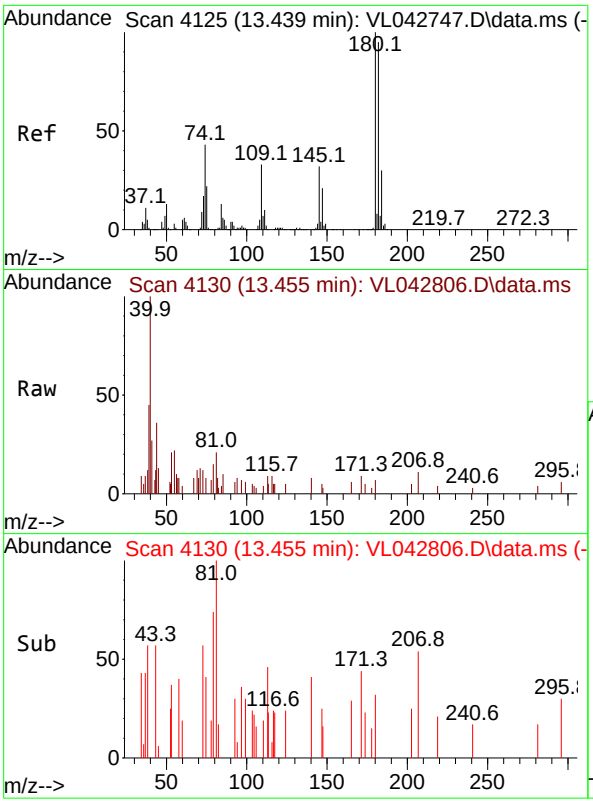


#80
Naphthalene,2-methyl-
Concen: 1.131 ppbv
RT: 14.478 min Scan# 4446
Delta R.T. 0.022 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion:142 Resp: 81

Ion	Ratio	Lower	Upper
142	100		
141	101.2	65.8	98.8#
115	43.2	31.2	46.8



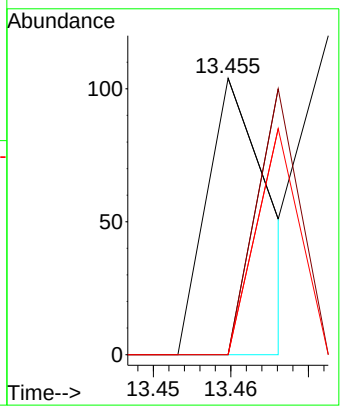


#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.455 min Scan# 4
Delta R.T. 0.016 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion:180 Resp: 30

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	86.7	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042807.D
Acq On : 04 Aug 2025 16:17
Operator : SY/MD
Sample : Q2750-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Quant Time: Aug 05 01:08:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	157969	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	449056	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	389304	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	321819	10.438	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.476	85	19583	0.938	ppbv		98
3) Chlorodifluoromethane	1.473	51	1140692	41.926	ppbv		94
4) Chloromethane	1.531	50	5508	0.652	ppbv		99
5) Vinyl Chloride	1.651	62	258	0.031	ppbv	#	69
6) Bromomethane	1.677	94	91	0.028	ppbv	#	77
7) Chloroethane	1.703	64	266	0.082	ppbv	#	78
8) Dichlorotetrafluoroethane	1.554	85	476	0.028	ppbv		90
9) Propene	1.561	41	456399	46.155	ppbv		97
10) Heptane	4.991	43	1705	0.064	ppbv	#	27
11) Trichlorofluoromethane	1.878	101	4846	0.225	ppbv		87
12) 1,1,2-Trichlorotrifluo...	2.140	101	1630	0.100	ppbv	#	76
13) Ethanol	1.729	45	2797020	3883.569	ppbv		93
15) Acetone	1.836	43	2084891	95.580	ppbv	#	81
16) 1,3-Butadiene	1.561	39	221503	23.807	ppbv	#	16
17) tert-Butyl alcohol	1.959	59	5014205	254.876	ppbv		96
19) Isopropyl Alcohol	1.959	45	18181997	1568.534	ppbv	#	44
20) Methylene Chloride	2.065	84	5475	0.796	ppbv	#	90
21) Allyl Chloride	1.959	41	8559192	636.669	ppbv	#	79
23) Vinyl Acetate	2.473	43	5957	0.225	ppbv	#	65
25) Ethyl Acetate	2.842	43	153653	3.182	ppbv	#	81
26) Hexane	2.826	57	23936	1.130	ppbv	#	1
27) Carbon Disulfide	2.150	76	35626	1.965	ppbv	#	66
29) Chloroform	2.852	83	17081	0.522	ppbv		91
30) Cyclohexane	3.865	84	609	0.034	ppbv	#	1
31) cis-1,2-Dichloroethene	2.839	61	16171	0.743	ppbv	#	23
34) 2-Butanone	2.564	43	25565	0.804	ppbv		92
35) Carbon Tetrachloride	3.768	117	905	0.027	ppbv	#	44
36) Benzene	3.661	78	12056	0.283	ppbv		93
39) 1,2-Dichloropropane	3.962	63	112739	7.177	ppbv	#	21
53) Toluene	6.940	91	25827	0.565	ppbv		94
58) Ethyl Benzene	9.354	91	3961	0.064	ppbv		93
59) m/p-Xylene	9.552	91	2774	0.056	ppbv	#	30
60) o-Xylene	9.966	91	3281	0.067	ppbv		84
61) Styrene	9.872	104	3300	0.160	ppbv	#	87
66) Benzyl Chloride	11.546	91	6193	1.173	ppbv	#	70
69) p-Isopropyltoluene	11.927	119	30916	0.414	ppbv		96
70) n-Butylbenzene	12.348	91	10225	0.142	ppbv	#	86
74) 1,2,4-Trimethylbenzene	11.539	105	5095	0.097	ppbv	#	85
76) 1,4-Dichlorobenzene	11.675	146	1657	0.046	ppbv	#	77
79) Naphthalene	13.520	128	1422	0.459	ppbv	#	93
80) Naphthalene,2-methyl-	14.520	142	21	1.129	ppbv	#	1
81) 1,2,4-Trichlorobenzene	13.445	180	106	0.438	ppbv	#	41

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042807.D
Acq On : 04 Aug 2025 16:17
Operator : SY/MD
Sample : Q2750-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Quant Time: Aug 05 01:08:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

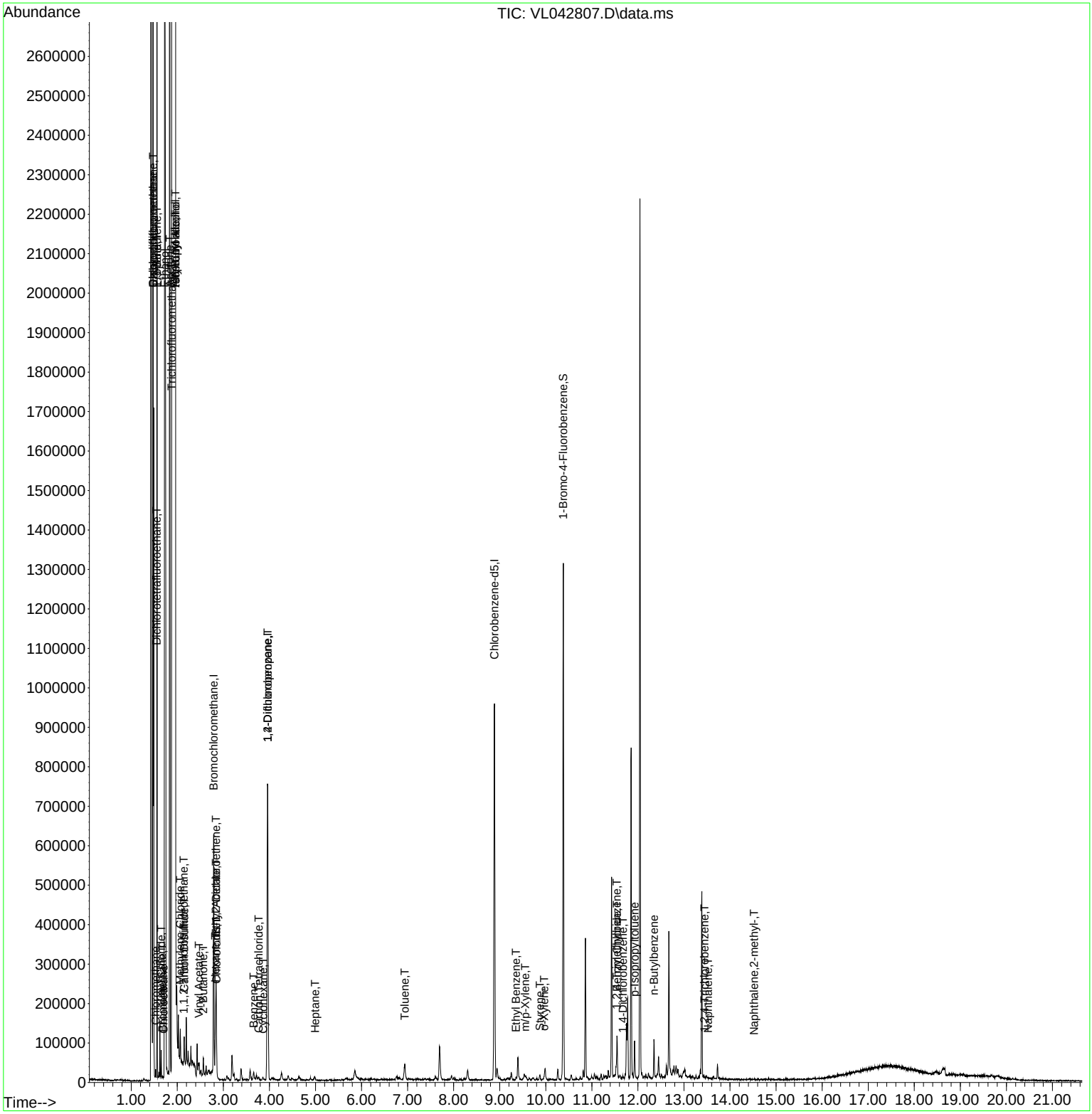
(#) = qualifier out of range (m) = manual integration (+) = signals summed

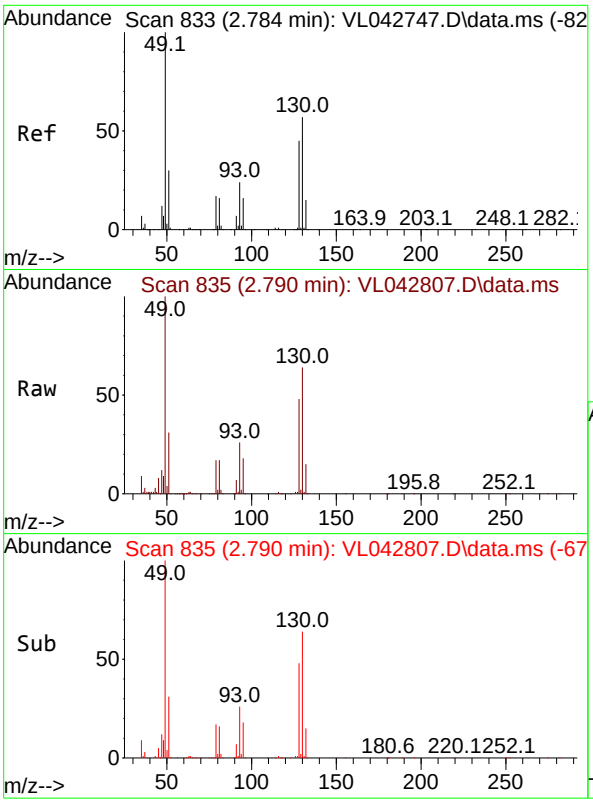
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042807.D
Acq On : 04 Aug 2025 16:17
Operator : SY/MD
Sample : Q2750-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Quant Time: Aug 05 01:08:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



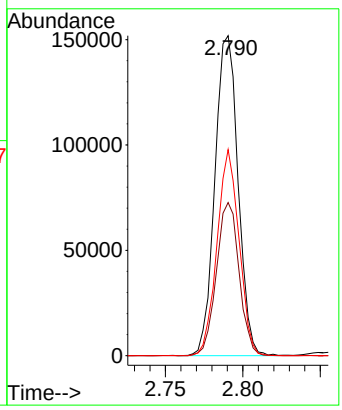


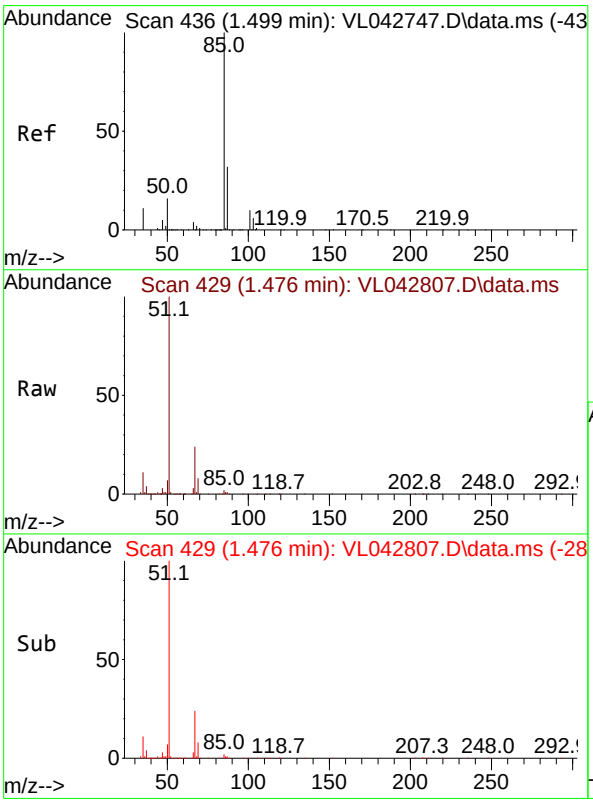
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 49 Resp: 157969

Ion	Ratio	Lower	Upper
49	100		
128	47.0	23.6	71.0
130	61.1	30.3	90.8

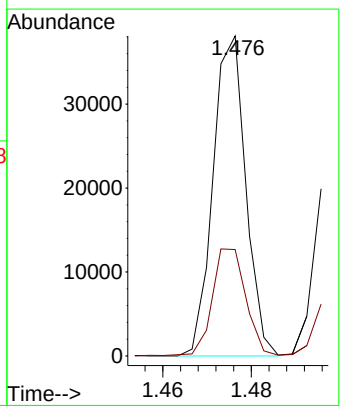


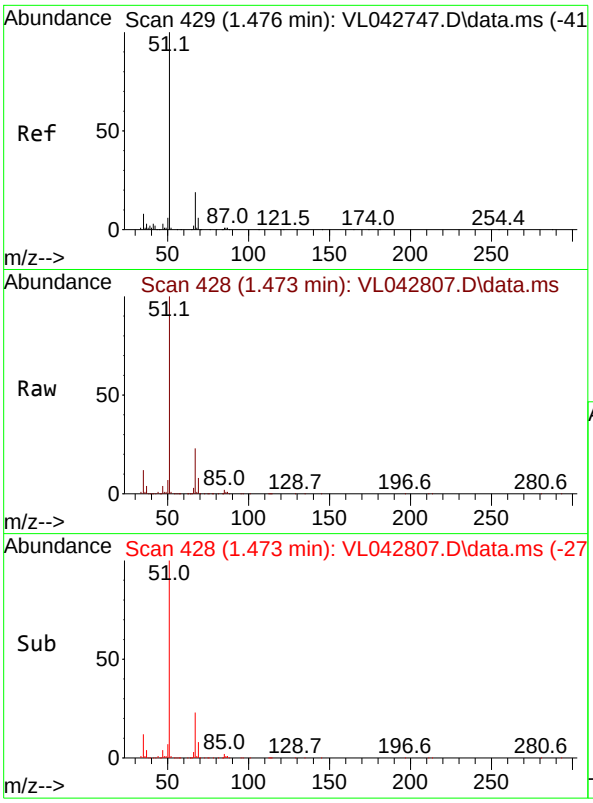


#2
Dichlorodifluoromethane
Concen: 0.938 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.022 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 85 Resp: 19583

Ion	Ratio	Lower	Upper
85	100		
87	33.0	25.4	38.2



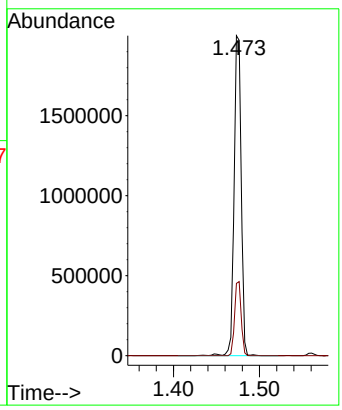


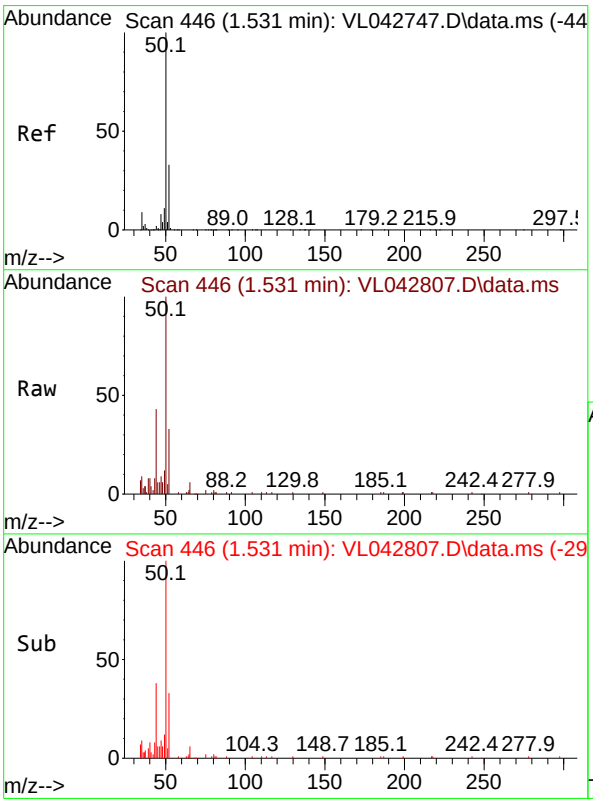
#3
Chlorodifluoromethane
Concen: 41.926 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 51 Resp: 1140692

Ion	Ratio	Lower	Upper
51	100		
67	21.3	15.0	22.6

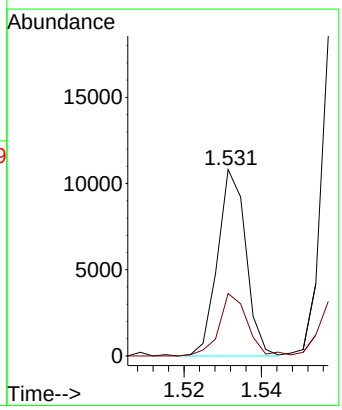


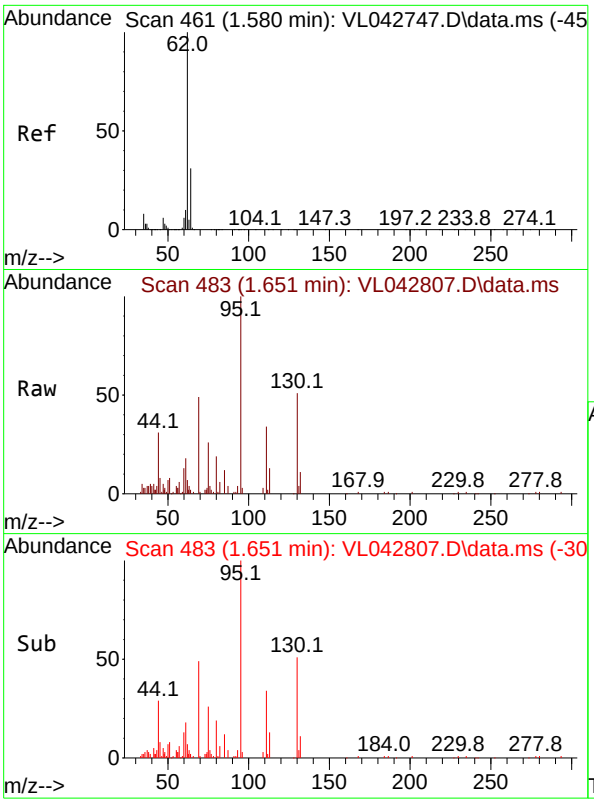


#4
Chloromethane
Concen: 0.652 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 50 Resp: 5508

Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.6	40.0



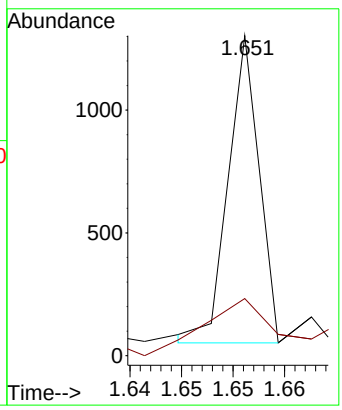


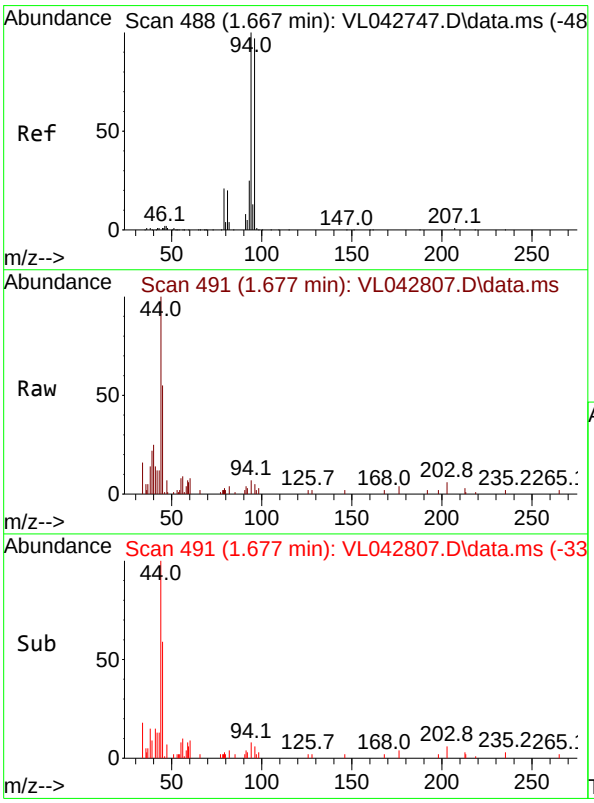
#5
Vinyl Chloride
Concen: 0.031 ppbv
RT: 1.651 min Scan# 4
Delta R.T. 0.071 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 62 Resp: 258

Ion	Ratio	Lower	Upper
62	100		
64	13.5	24.5	36.7#

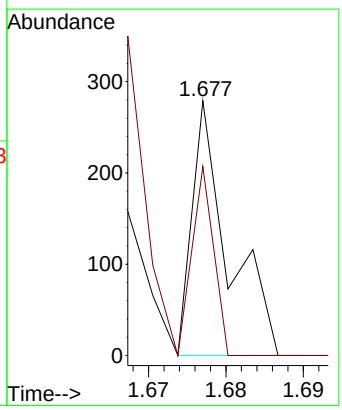


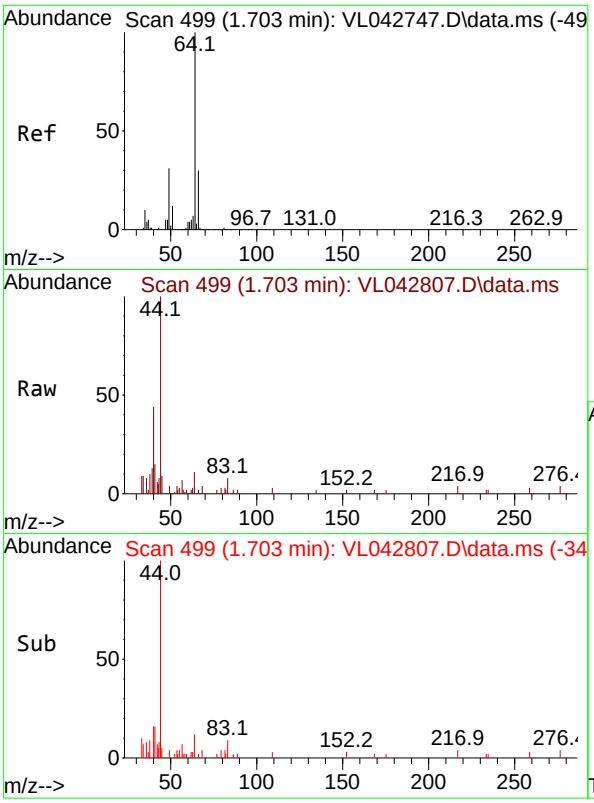


#6
Bromomethane
Concen: 0.028 ppbv
RT: 1.677 min Scan# 491
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 94 Resp: 91

Ion	Ratio	Lower	Upper
94	100		
96	74.2	77.6	116.4#



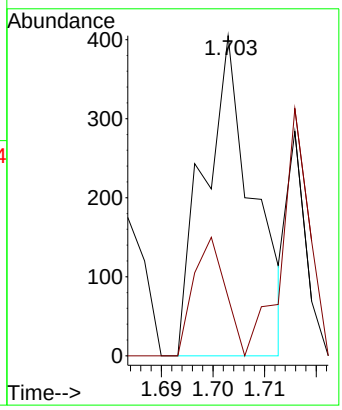


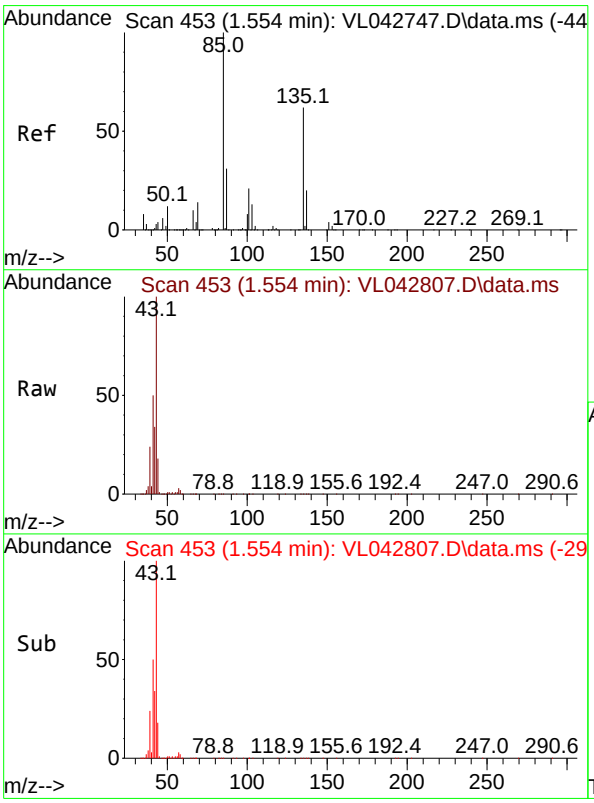
#7
Chloroethane
Concen: 0.082 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 64 Resp: 266

Ion	Ratio	Lower	Upper
64	100		
66	18.3	24.1	36.1#

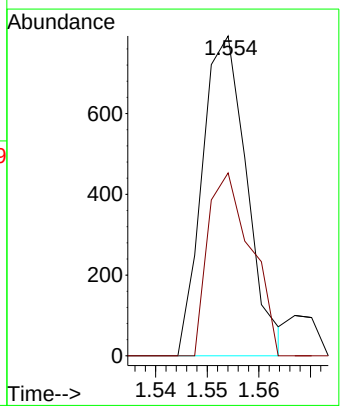


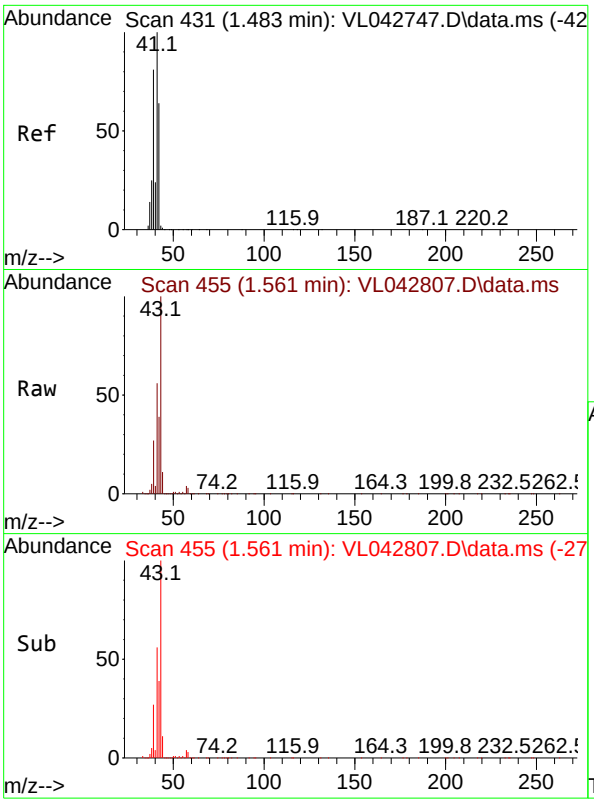


#8
Dichlorotetrafluoroethane
Concen: 0.028 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 85 Resp: 476

Ion	Ratio	Lower	Upper
85	100		
135	55.3	50.6	76.0



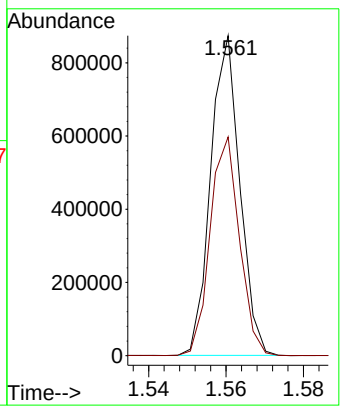


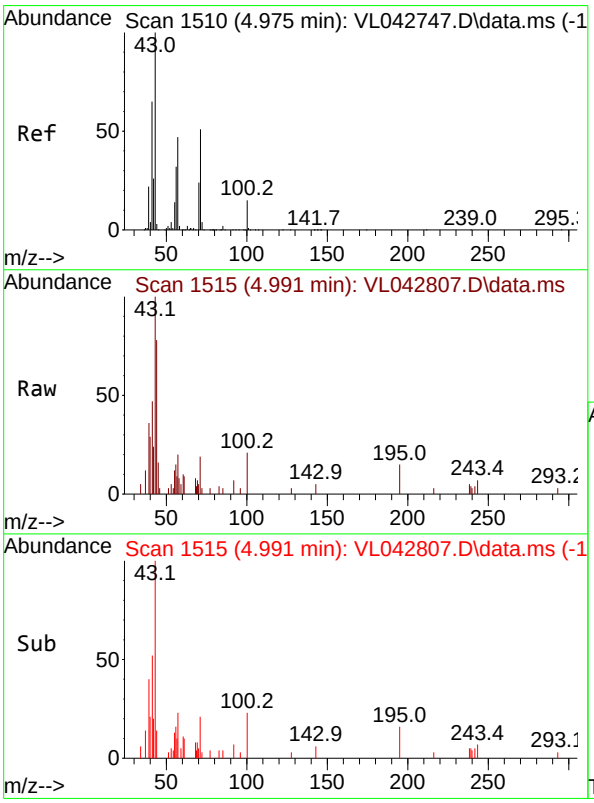
#9
Propene
Concen: 46.155 ppbv
RT: 1.561 min Scan# 4
Delta R.T. 0.078 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 41 Resp: 456399

Ion	Ratio	Lower	Upper
41	100		
42	68.9	53.2	79.8

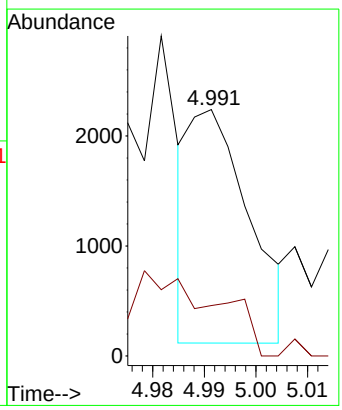


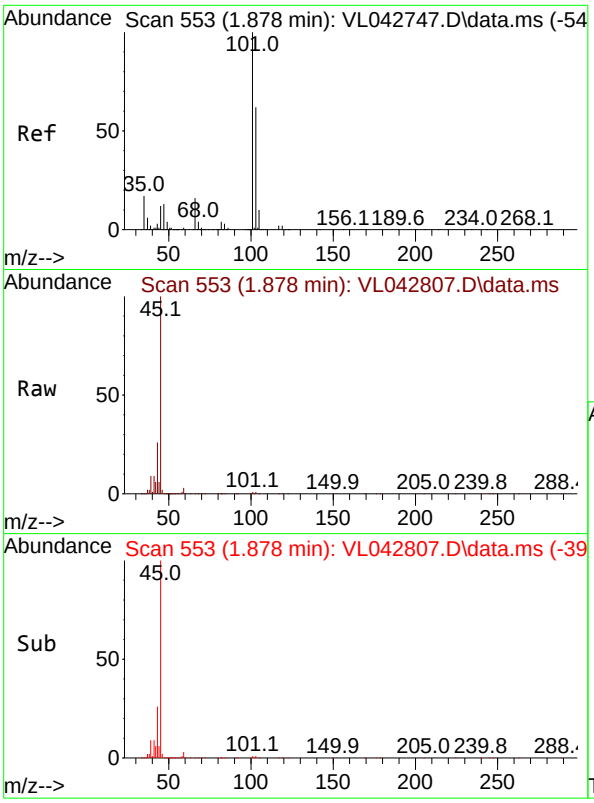


#10
Heptane
Concen: 0.064 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.016 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 43 Resp: 1705

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.9	59.9#



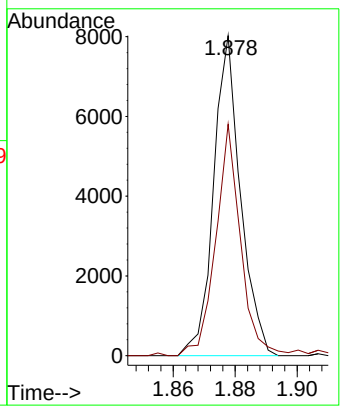


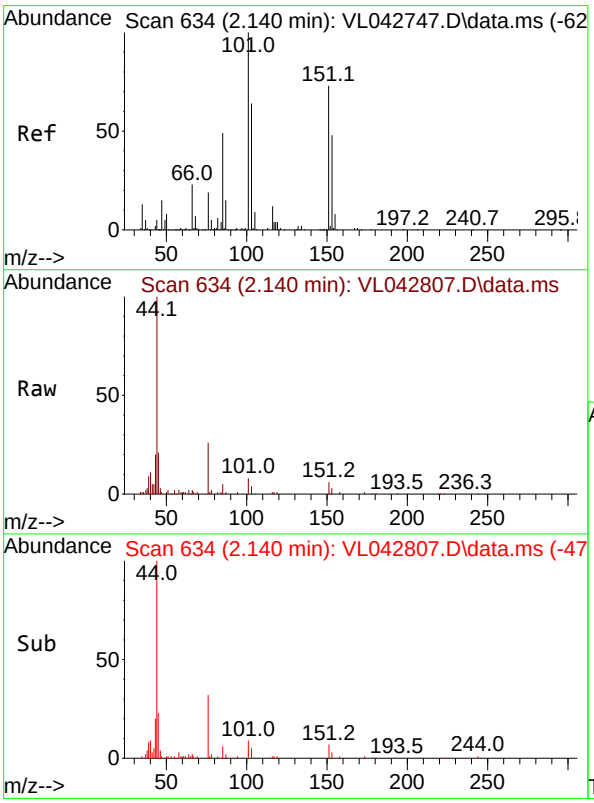
#11
Trichlorofluoromethane
Concen: 0.225 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion:101 Resp: 4846

Ion	Ratio	Lower	Upper
101	100		
103	72.3	49.6	74.4

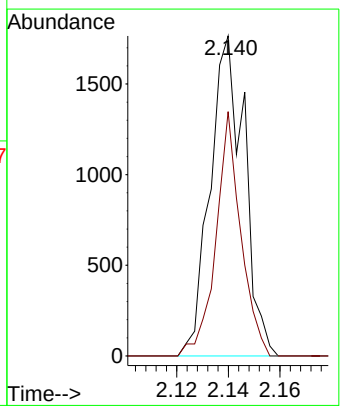


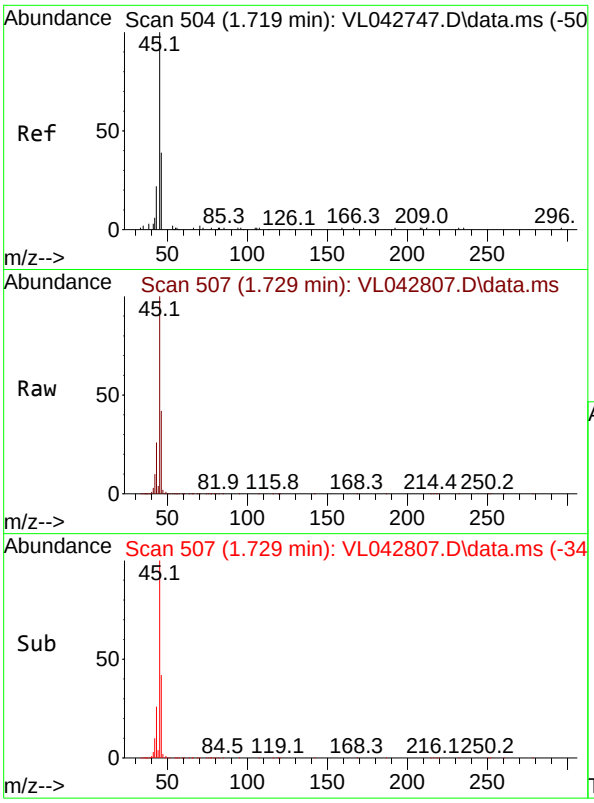


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.100 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion:101 Resp: 1630

Ion	Ratio	Lower	Upper
101	100		
151	55.3	60.5	90.7#



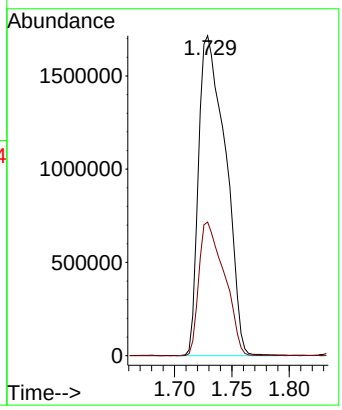


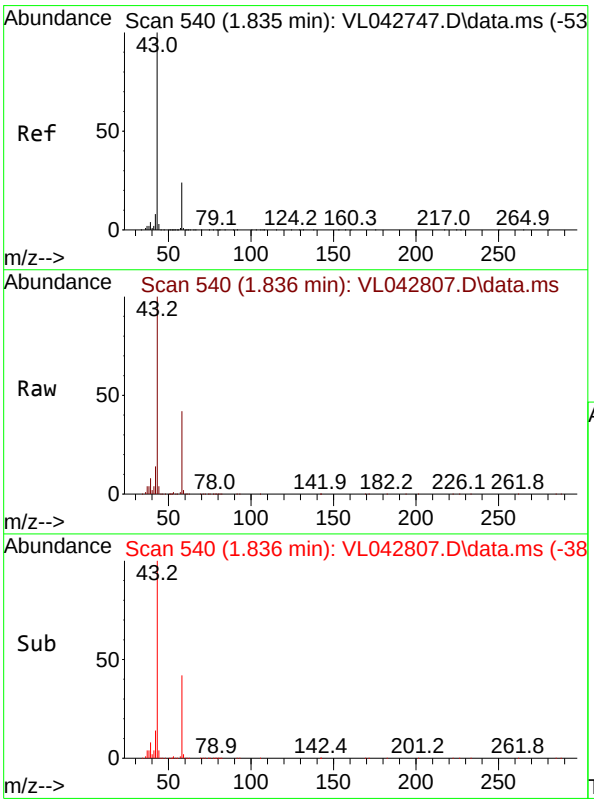
#13
Ethanol
Concen: 3883.569 ppbv
RT: 1.729 min Scan# 5
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 45 Resp: 2797020

Ion	Ratio	Lower	Upper
45	100		
46	39.8	17.8	71.4

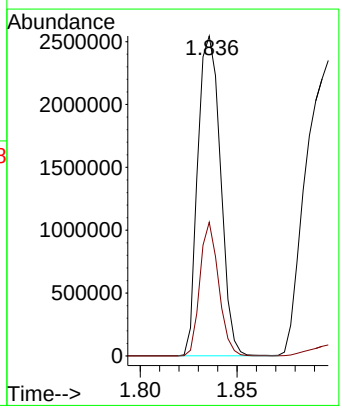


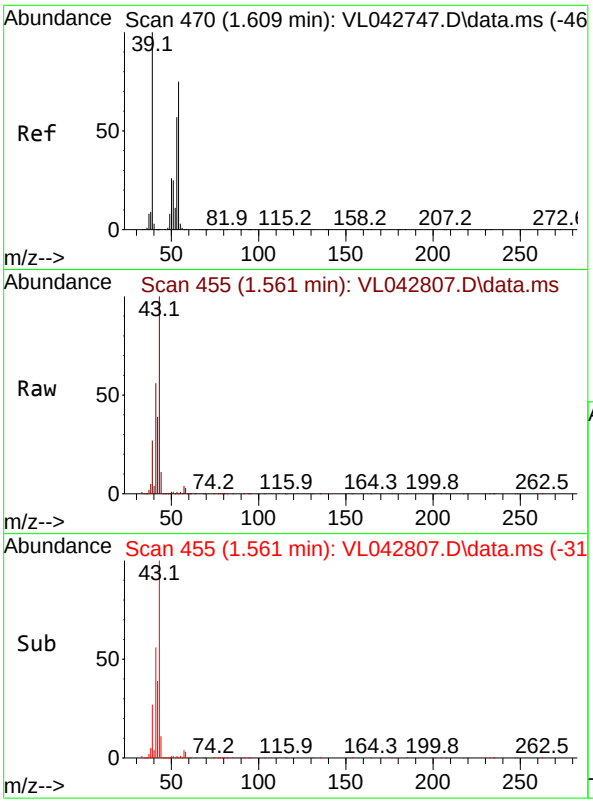


#15
Acetone
Concen: 95.580 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 43 Resp: 2084891

Ion	Ratio	Lower	Upper
43	100		
58	34.5	19.8	29.8#



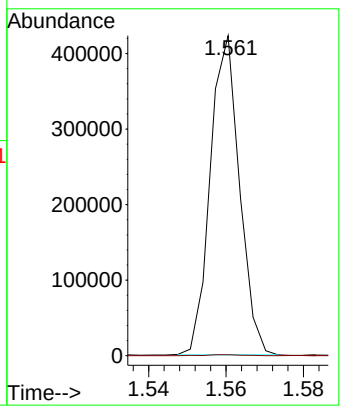


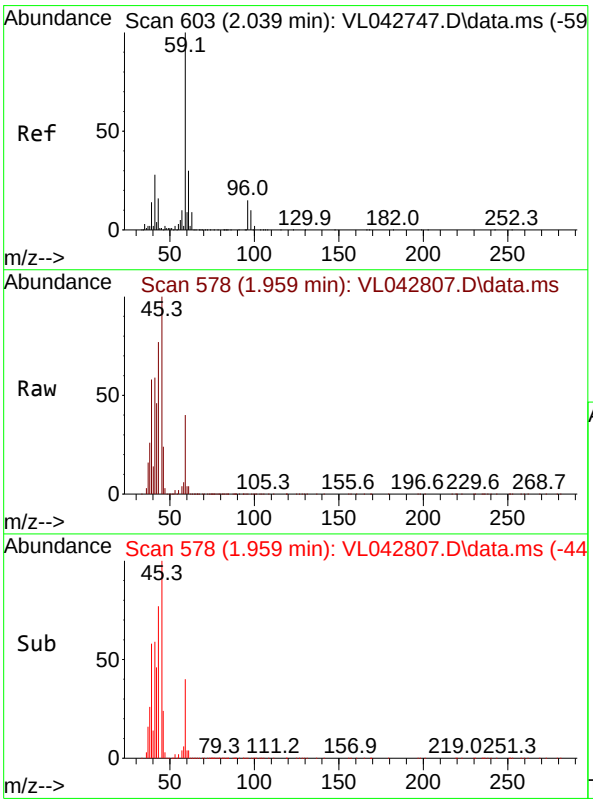
#16
1,3-Butadiene
Concen: 23.807 ppbv
RT: 1.561 min Scan# 4
Delta R.T. -0.048 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 39 Resp: 221503

Ion	Ratio	Lower	Upper
39	100		
54	0.5	54.5	81.7#

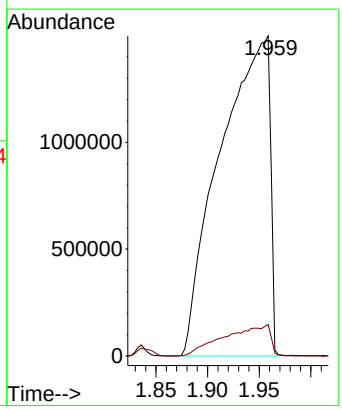


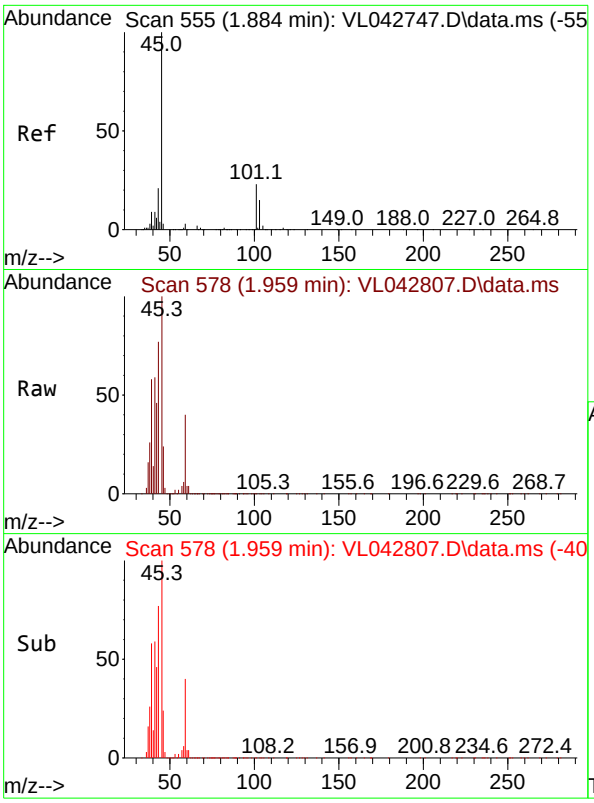


#17
tert-Butyl alcohol
Concen: 254.876 ppbv
RT: 1.959 min Scan# 578
Delta R.T. -0.081 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 59 Resp: 5014205

Ion	Ratio	Lower	Upper
59	100		
57	9.0	8.3	12.5



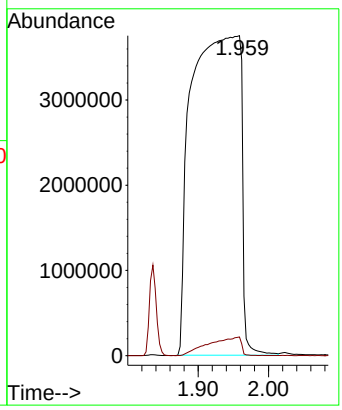


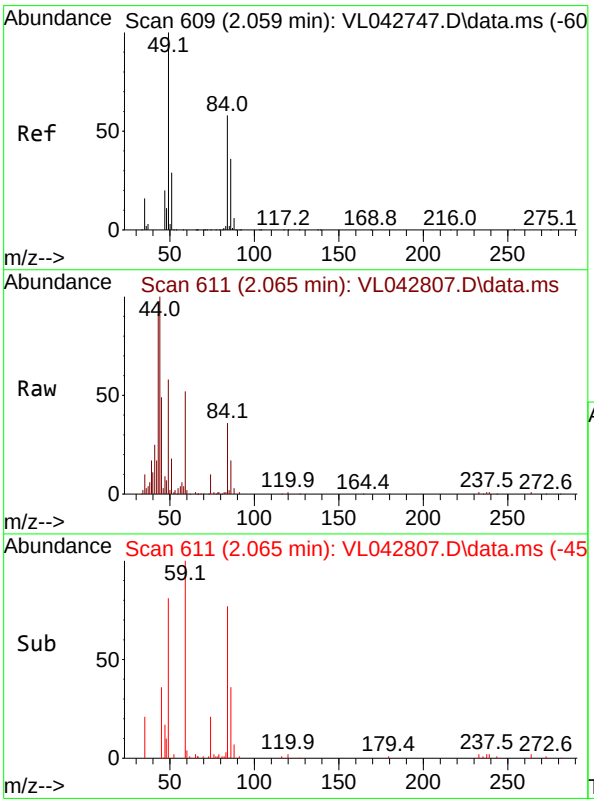
#19
Isopropyl Alcohol
Concen: 1568.534 ppbv
RT: 1.959 min Scan# 5
Delta R.T. 0.075 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 45 Resp:18181997

Ion	Ratio	Lower	Upper
45	100		
58	3.9	30.0	45.0#

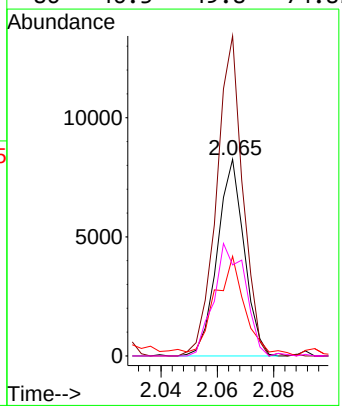


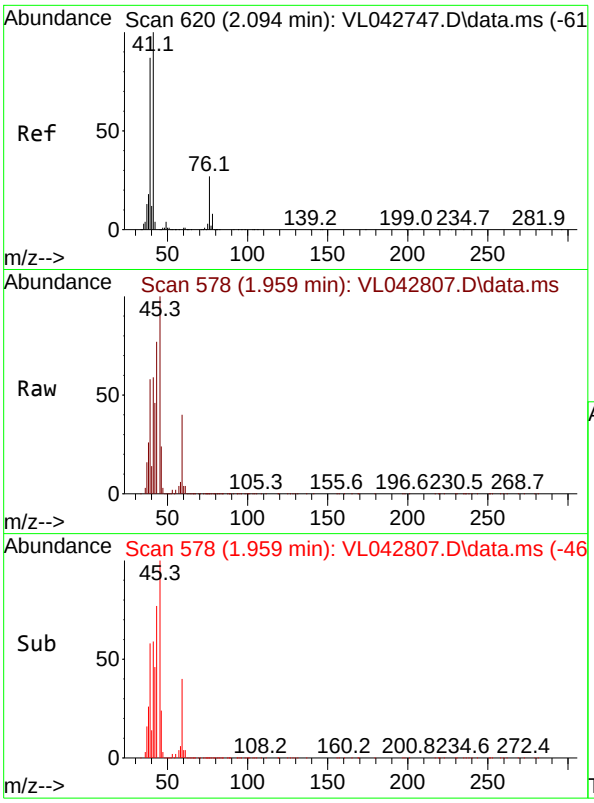


#20
Methylene Chloride
Concen: 0.796 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 84 Resp: 5475

Ion	Ratio	Lower	Upper
84	100		
49	162.8	138.6	208.0
51	48.0	40.6	61.0
86	46.3	49.8	74.8#



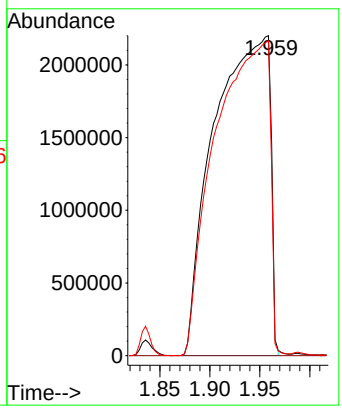


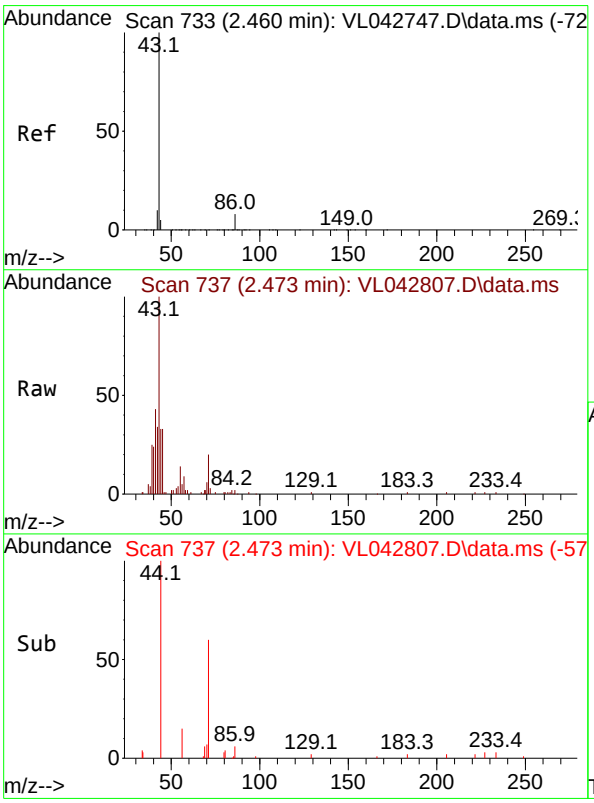
#21
Allyl Chloride
Concen: 636.669 ppbv
RT: 1.959 min Scan# 5
Delta R.T. -0.136 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 41 Resp: 8559192

Ion	Ratio	Lower	Upper
41	100		
76	0.4	21.1	31.7#
39	96.3	68.3	102.5

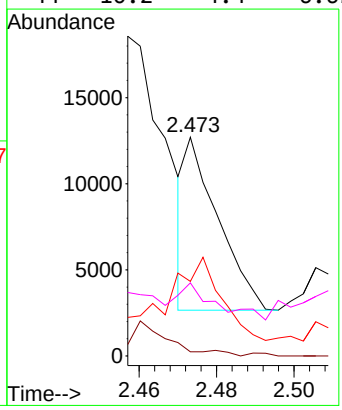


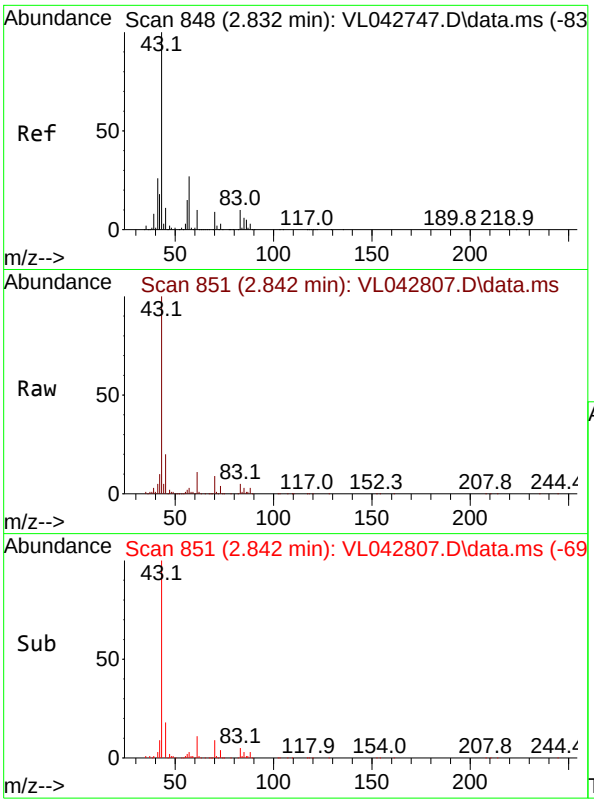


#23
Vinyl Acetate
Concen: 0.225 ppbv
RT: 2.473 min Scan# 737
Delta R.T. 0.013 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 43 Resp: 5957

Ion	Ratio	Lower	Upper
43	100		
86	2.4	6.1	9.1#
42	32.8	7.8	11.8#
44	10.2	4.4	6.6#



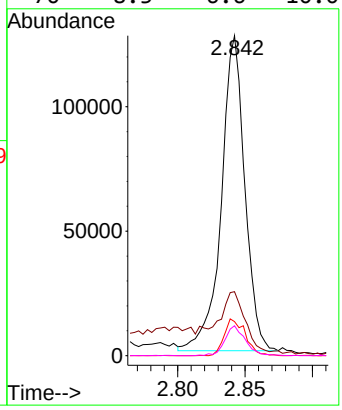


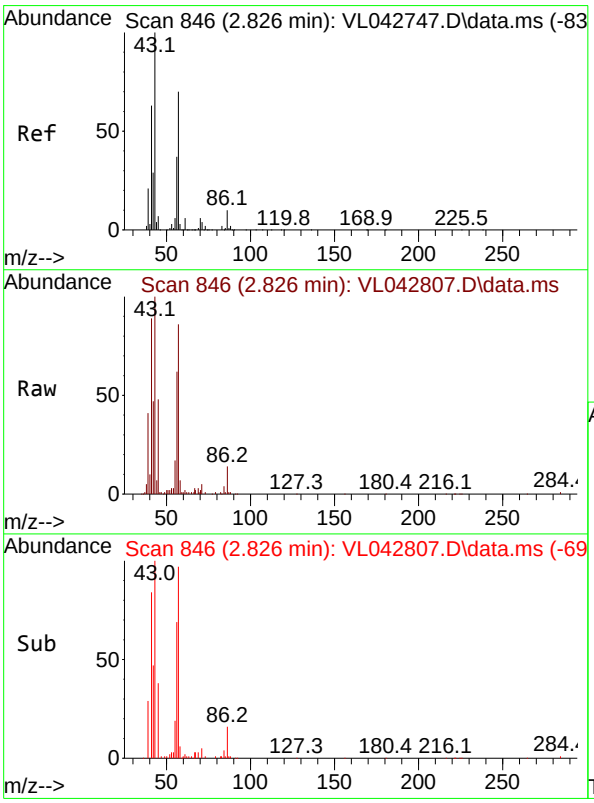
#25
Ethyl Acetate
Concen: 3.182 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 43 Resp: 153653

Ion	Ratio	Lower	Upper
43	100		
45	26.3	7.8	11.6#
61	10.6	6.7	10.1#
70	8.3	6.6	10.0

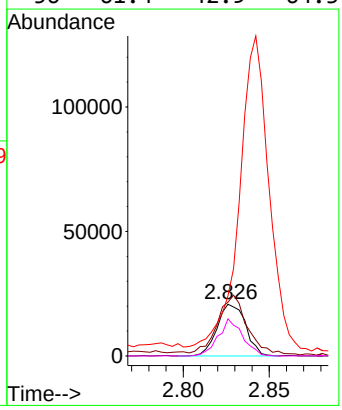


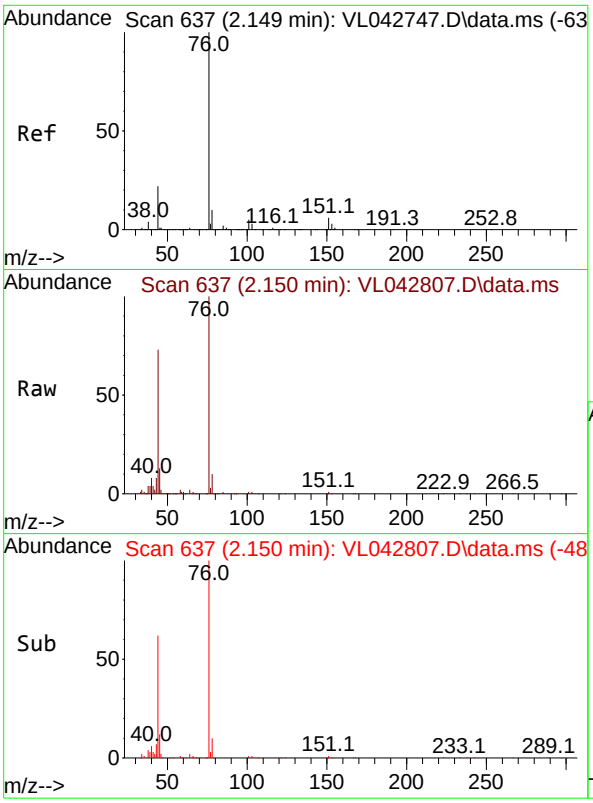


#26
Hexane
Concen: 1.130 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 57 Resp: 23936

Ion	Ratio	Lower	Upper
57	100		
41	130.1	75.4	113.2#
43	701.5	185.0	277.6#
56	61.4	42.9	64.3



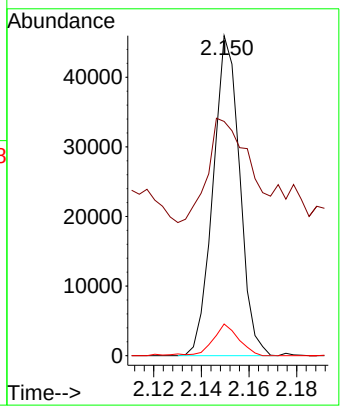


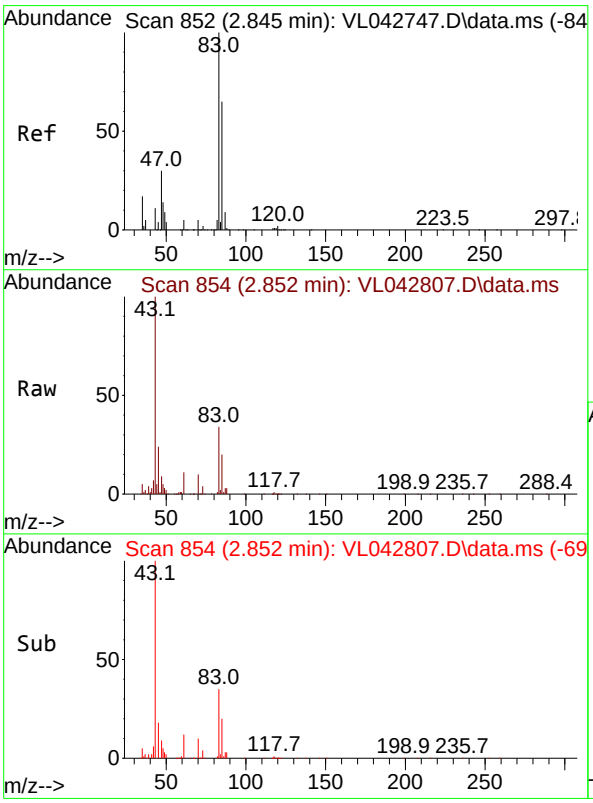
#27
Carbon Disulfide
Concen: 1.965 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 76 Resp: 35626

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.8	9.9	14.9#

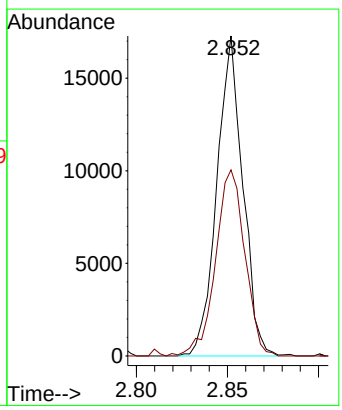


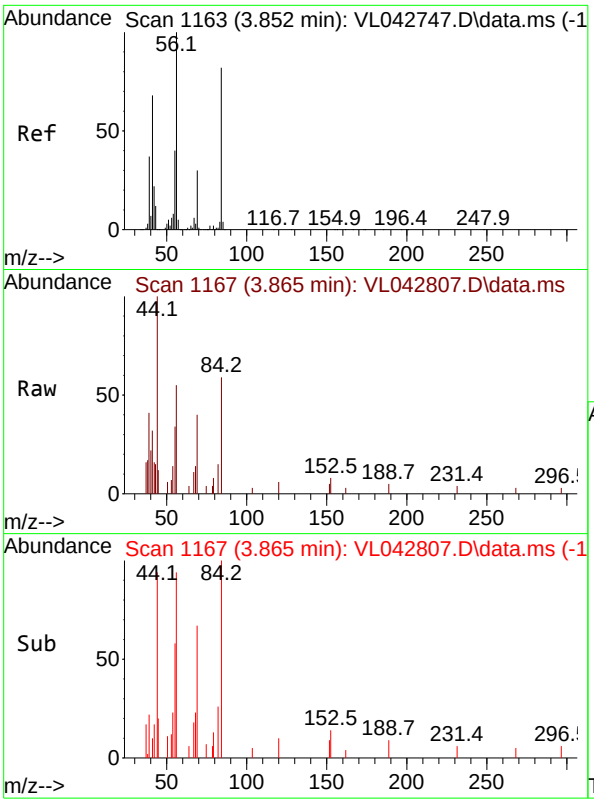


#29
Chloroform
Concen: 0.522 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 83 Resp: 17081

Ion	Ratio	Lower	Upper
83	100		
85	58.1	52.2	78.2



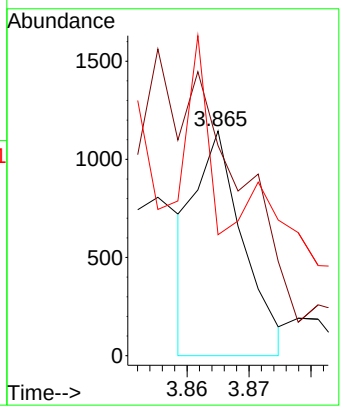


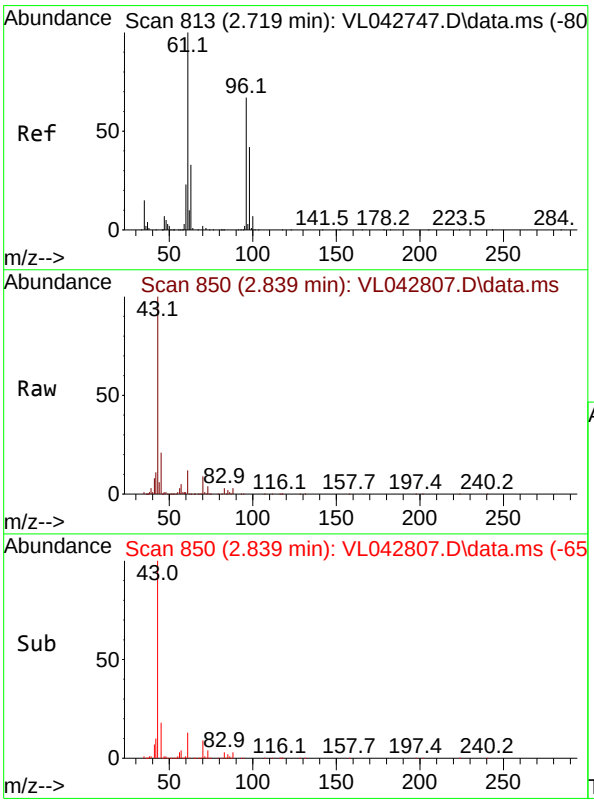
#30
Cyclohexane
Concen: 0.034 ppbv
RT: 3.865 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 84 Resp: 609

Ion	Ratio	Lower	Upper
84	100		
56	0.0	97.5	146.3#
41	435.5	67.2	100.8#

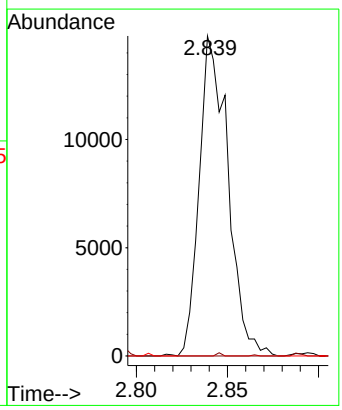


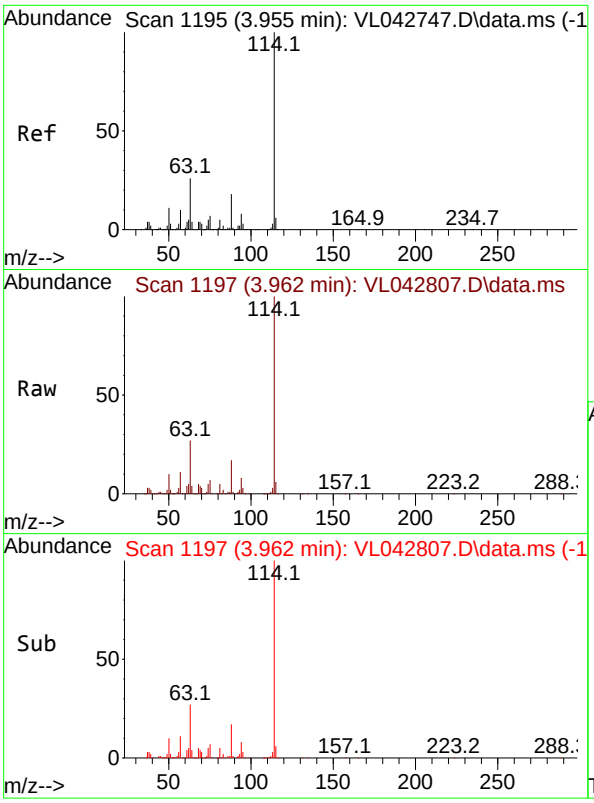


#31
cis-1,2-Dichloroethene
Concen: 0.743 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.120 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 61 Resp: 16171

Ion	Ratio	Lower	Upper
61	100		
96	0.0	53.5	80.3#
98	0.0	33.6	50.4#



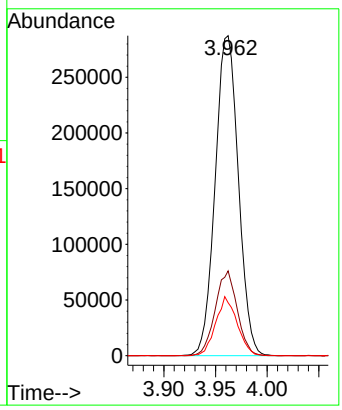


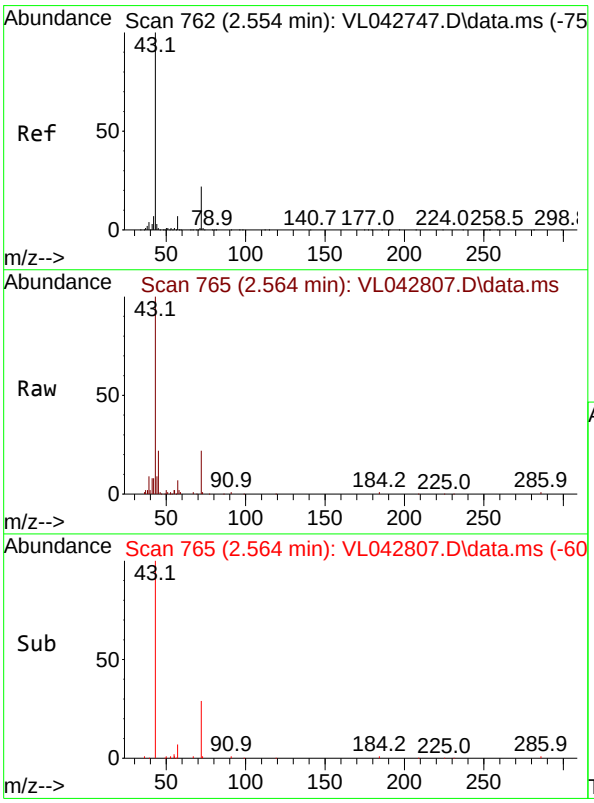
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion:114 Resp: 449056

Ion	Ratio	Lower	Upper
114	100		
63	25.2	20.5	30.7
88	17.1	14.0	21.0

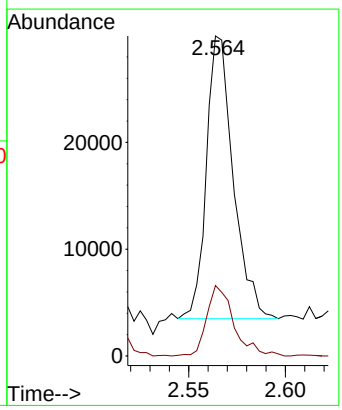


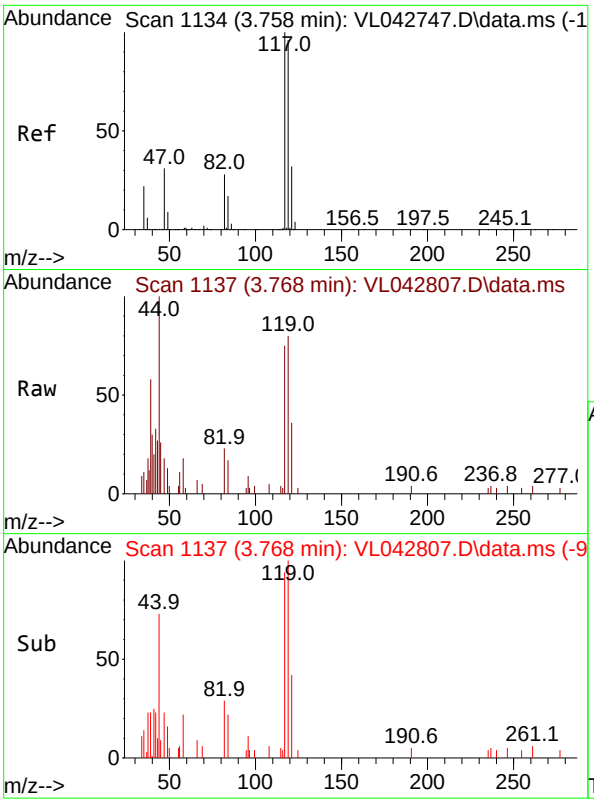


#34
2-Butanone
Concen: 0.804 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 43 Resp: 25565

Ion	Ratio	Lower	Upper
43	100		
72	25.4	17.4	26.0



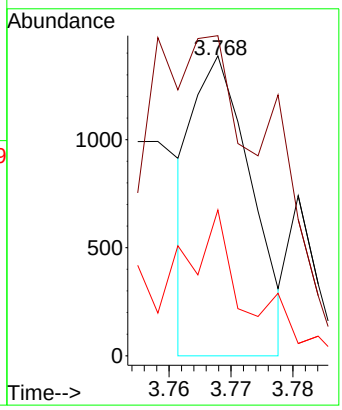


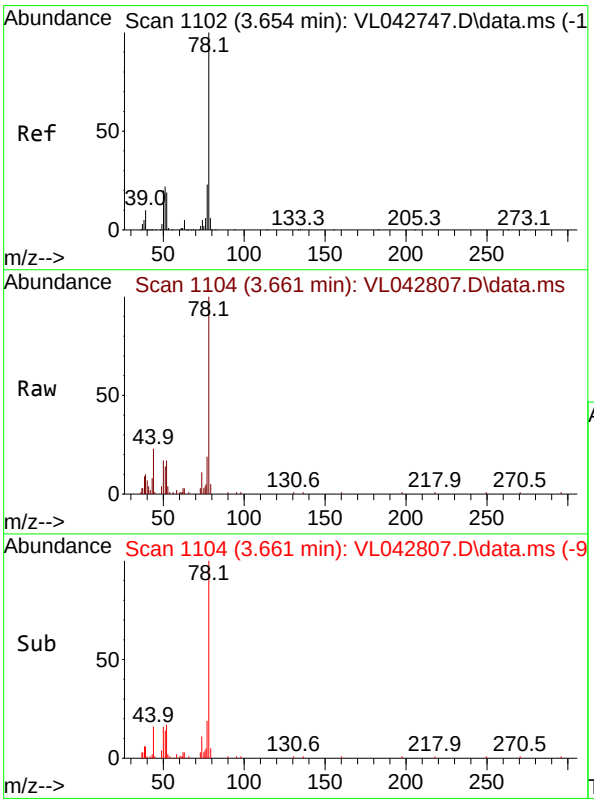
#35
Carbon Tetrachloride
Concen: 0.027 ppbv
RT: 3.768 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion:117 Resp: 905

Ion	Ratio	Lower	Upper
117	100		
119	25.4	77.1	115.7#
121	35.8	25.5	38.3

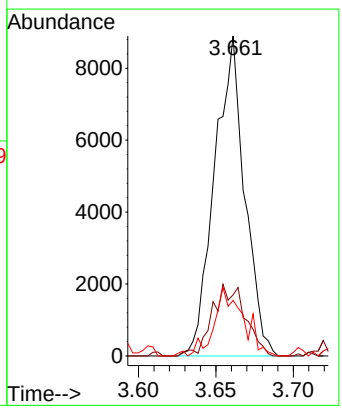


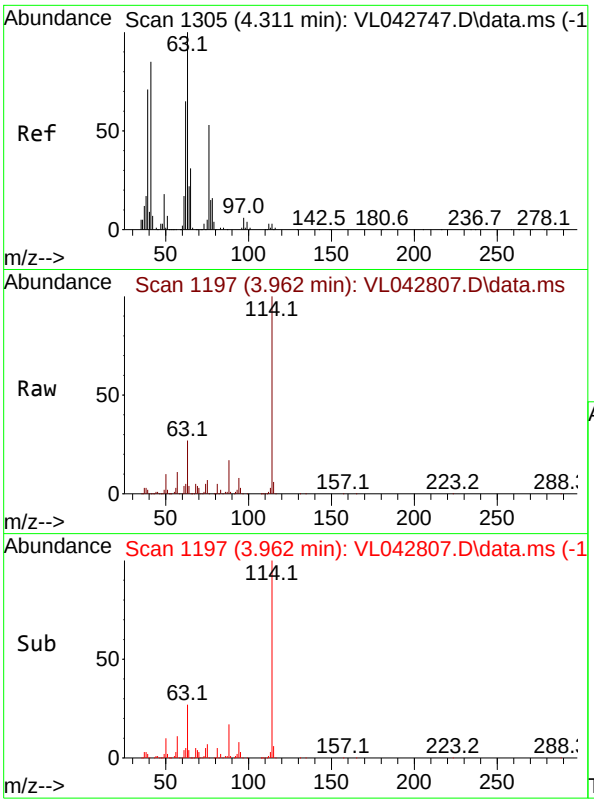


#36
Benzene
Concen: 0.283 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 78 Resp: 12056

Ion	Ratio	Lower	Upper
78	100		
77	19.1	18.5	27.7
50	17.3	16.2	24.2



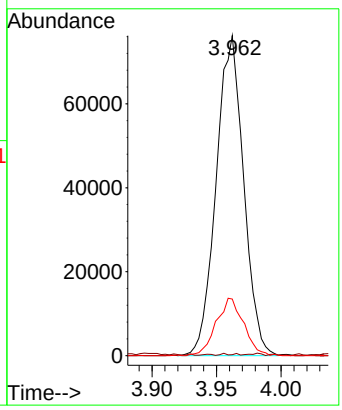


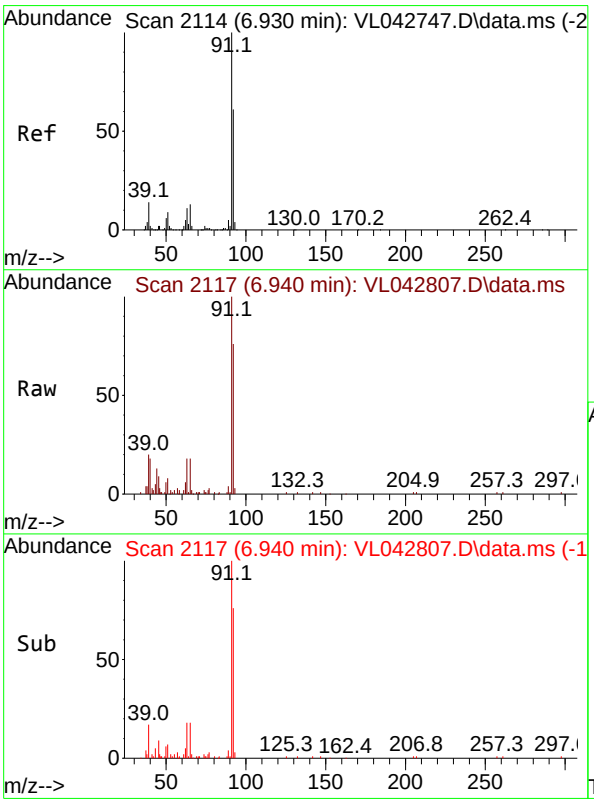
#39
1,2-Dichloropropane
Concen: 7.177 ppbv
RT: 3.962 min Scan# 11
Delta R.T. -0.349 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 63 Resp: 112739

Ion	Ratio	Lower	Upper
63	100		
41	0.1	68.2	102.4#
62	17.6	52.0	78.0#

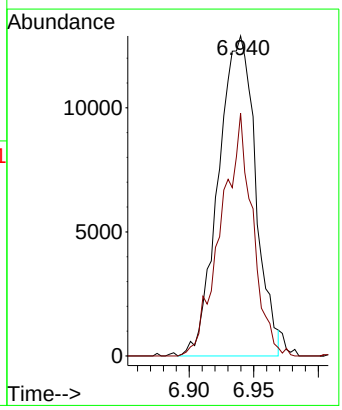


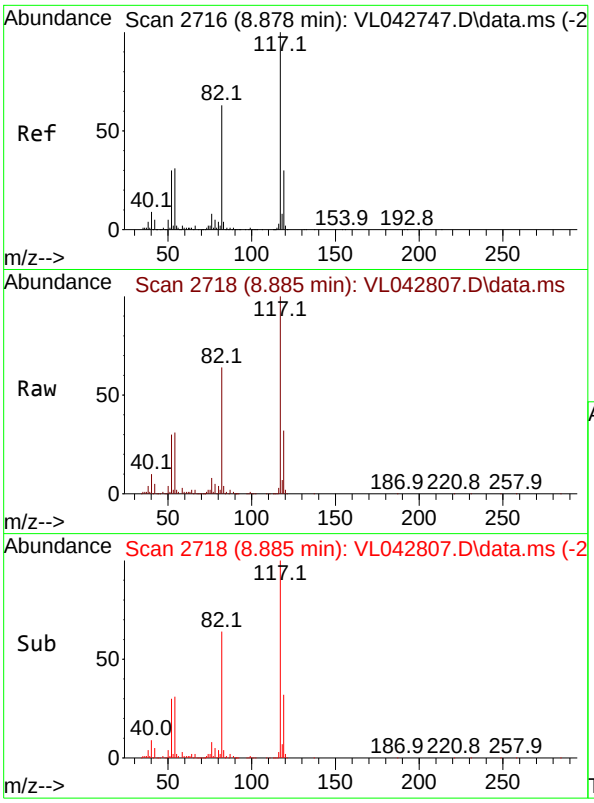


#53
Toluene
Concen: 0.565 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 91 Resp: 25827

Ion	Ratio	Lower	Upper
91	100		
92	64.6	48.0	72.0



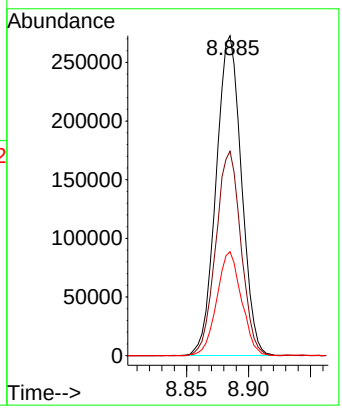


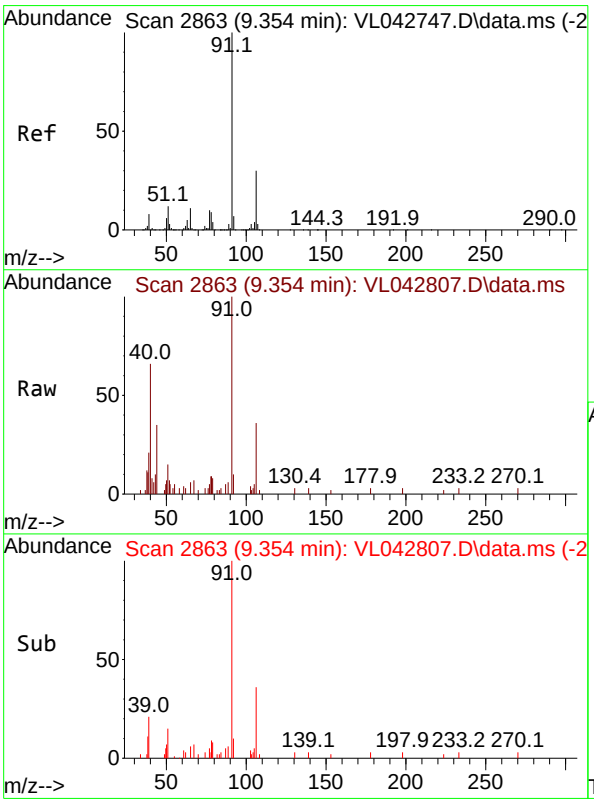
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion:117 Resp: 389304

Ion	Ratio	Lower	Upper
117	100		
82	63.4	53.3	79.9
119	31.7	25.8	38.6

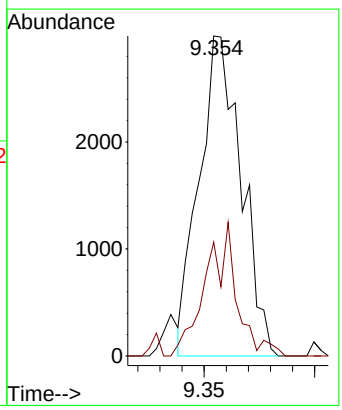


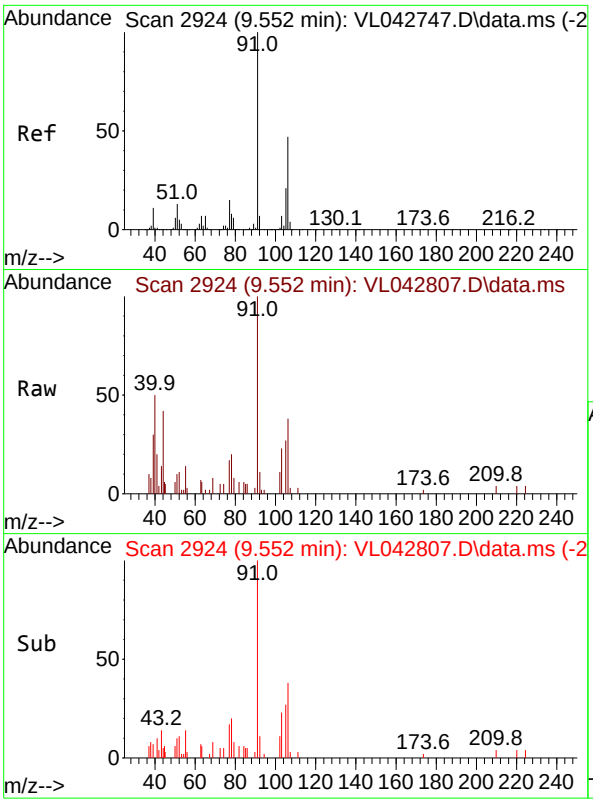


#58
Ethyl Benzene
Concen: 0.064 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 91 Resp: 3961

Ion	Ratio	Lower	Upper
91	100		
106	33.4	23.8	35.6



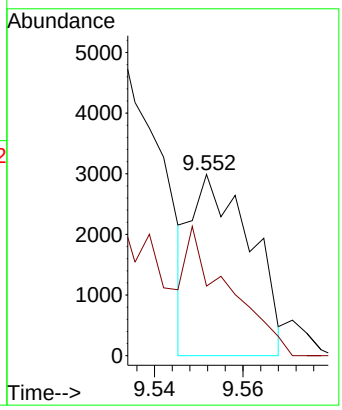


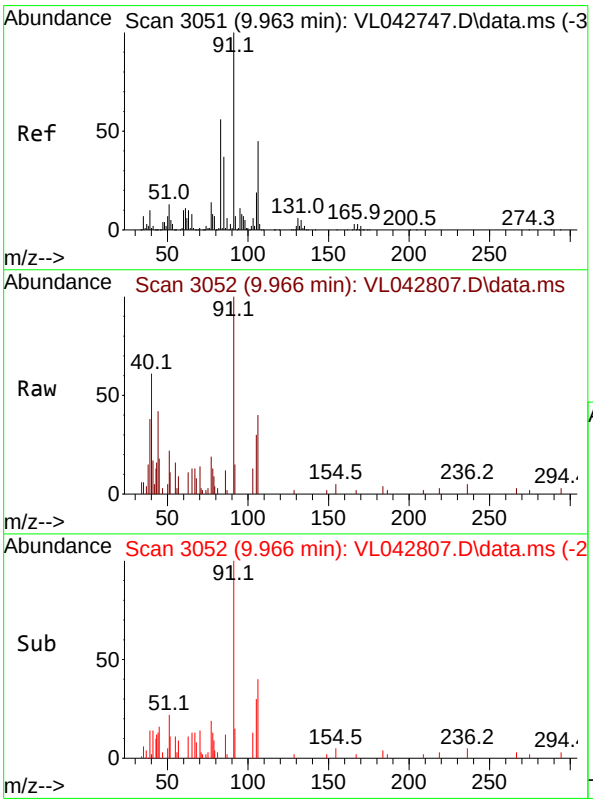
#59
m/p-Xylene
Concen: 0.056 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 91 Resp: 2774

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

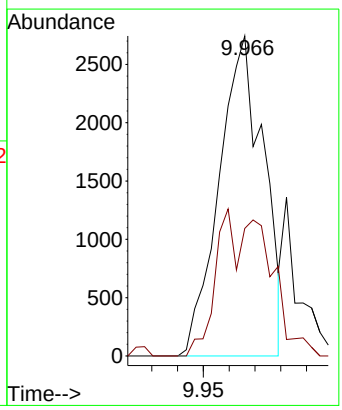


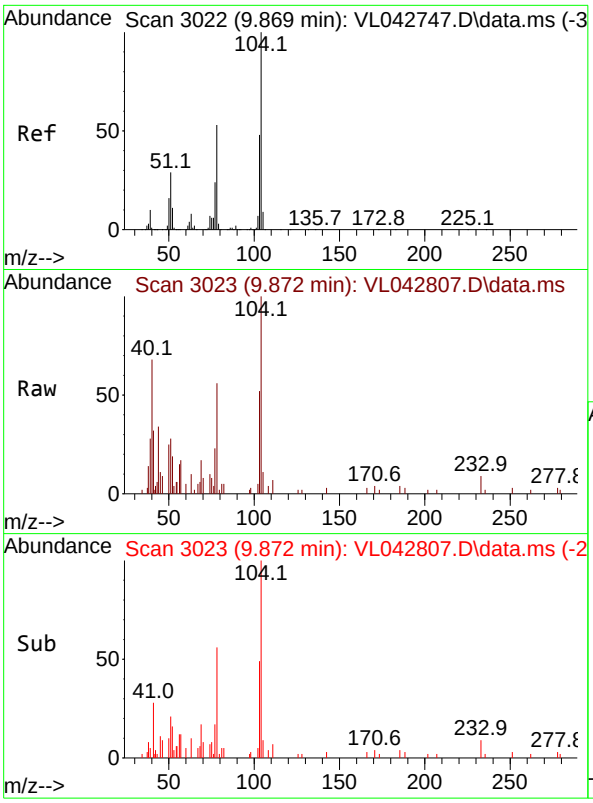


#60
o-Xylene
Concen: 0.067 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 91 Resp: 3281

Ion	Ratio	Lower	Upper
91	100		
106	54.6	22.0	66.0



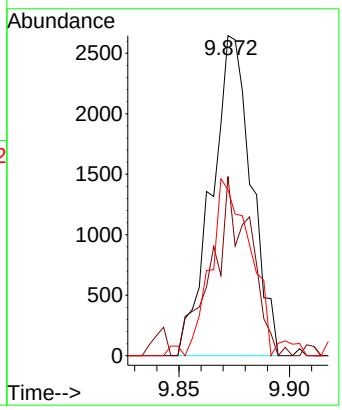


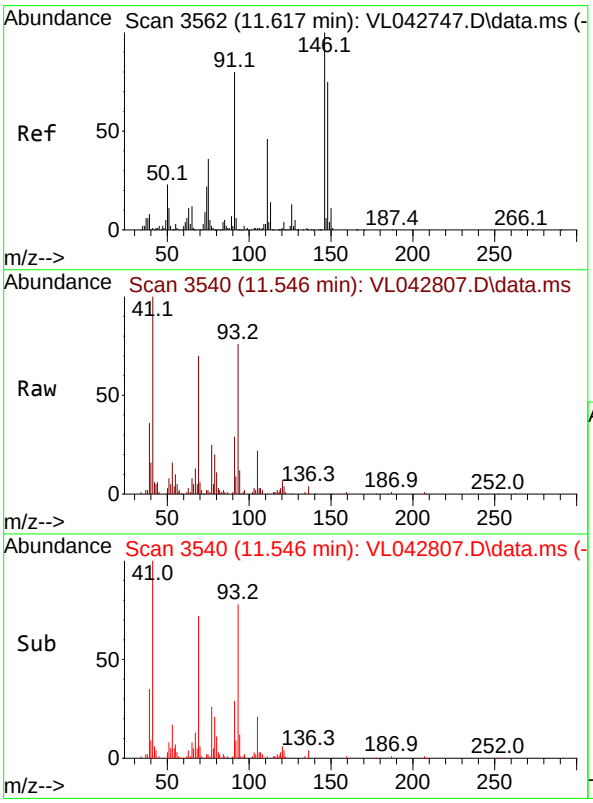
#61
Styrene
Concen: 0.160 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion:104 Resp: 3300

Ion	Ratio	Lower	Upper
104	100		
78	57.8	41.5	62.3
103	58.7	37.5	56.3#

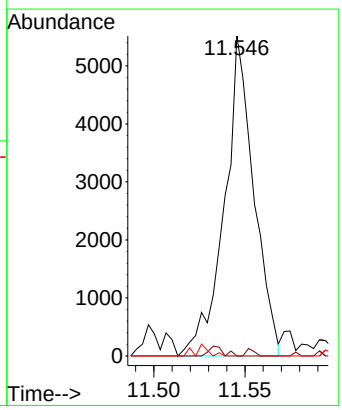


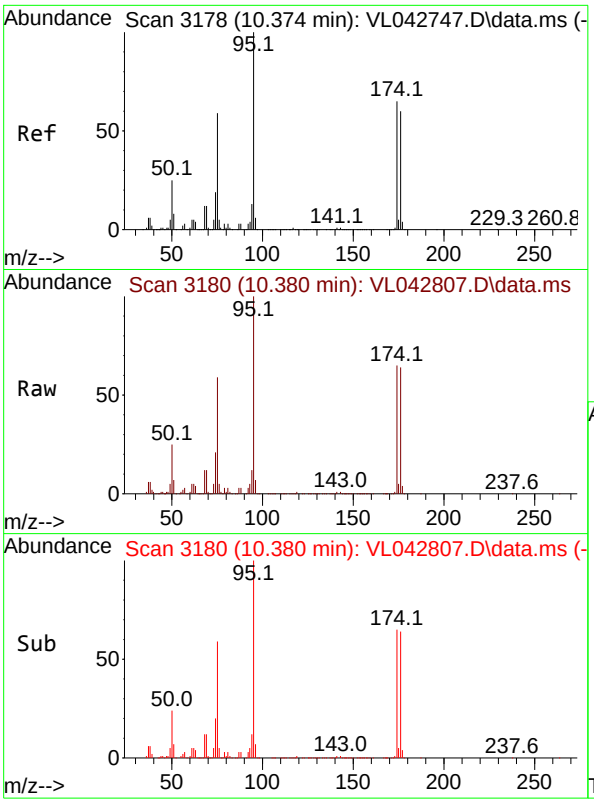


#66
Benzyl Chloride
Concen: 1.173 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. -0.071 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 91 Resp: 6193

Ion	Ratio	Lower	Upper
91	100		
126	2.1	14.4	21.6#
128	1.8	5.2	7.8#



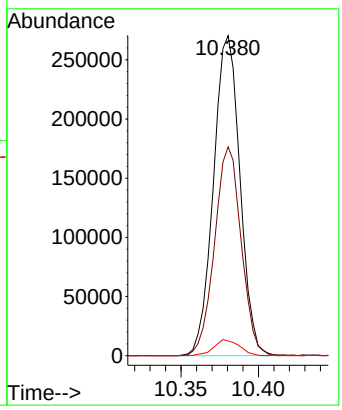


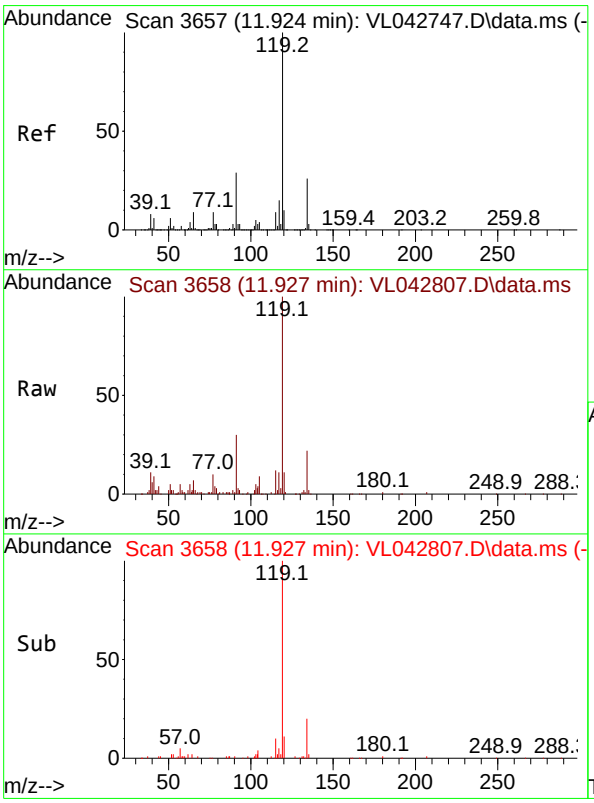
#68
1-Bromo-4-Fluorobenzene
Concen: 10.438 ppbv
RT: 10.380 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 95 Resp: 321819

Ion	Ratio	Lower	Upper
95	100		
174	65.7	53.8	80.6
175	4.9	4.0	6.0

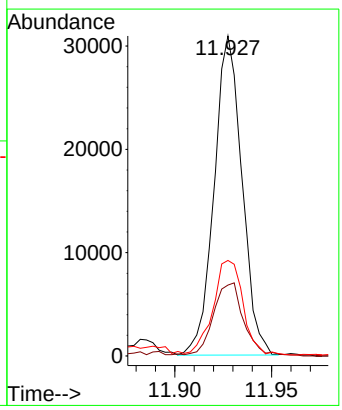


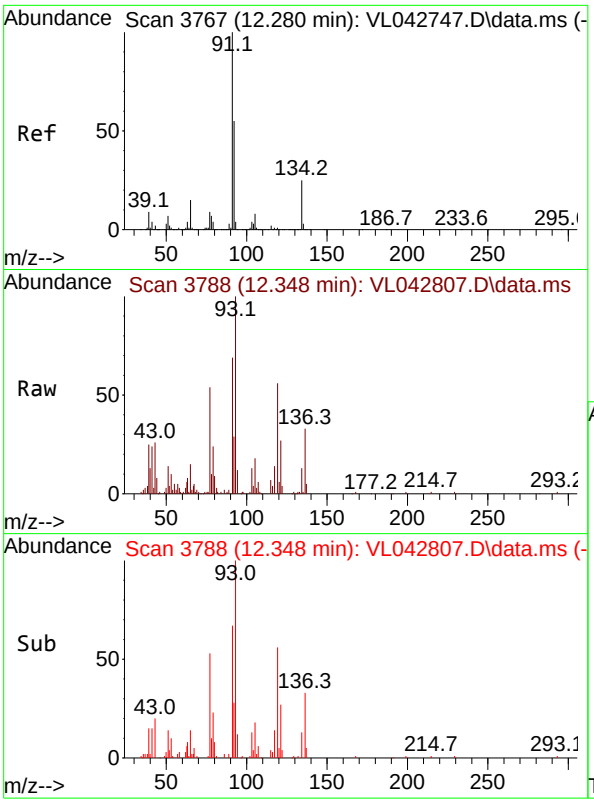


#69
p-Isopropyltoluene
Concen: 0.414 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion:119 Resp: 30916

Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.6	31.0
91	32.9	23.2	34.8



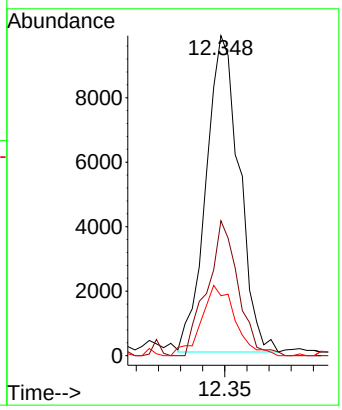


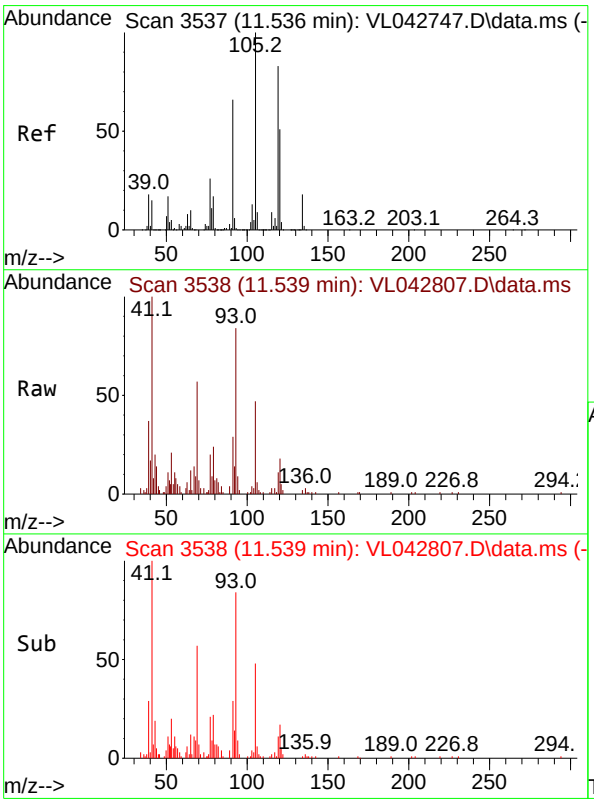
#70
n-Butylbenzene
Concen: 0.142 ppbv
RT: 12.348 min Scan# 3
Delta R.T. 0.068 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 91 Resp: 10225

Ion	Ratio	Lower	Upper
91	100		
92	40.9	43.4	65.2#
134	22.6	19.6	29.4

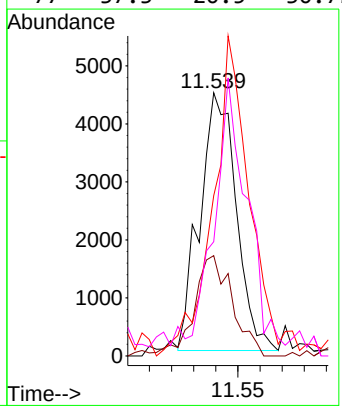


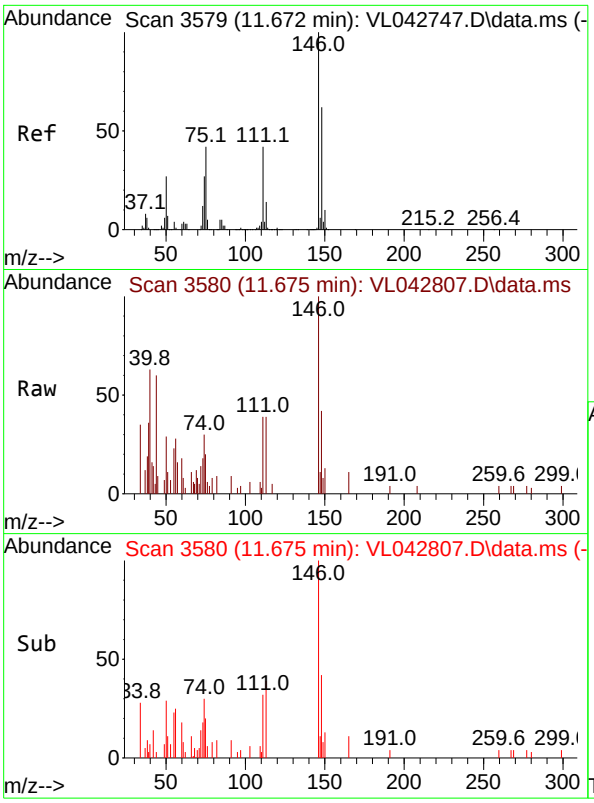


#74
1,2,4-Trimethylbenzene
Concen: 0.097 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion:105 Resp: 5095

Ion	Ratio	Lower	Upper
105	100		
120	38.9	40.8	61.2#
91	57.6	53.0	79.4
77	37.3	20.5	30.7#



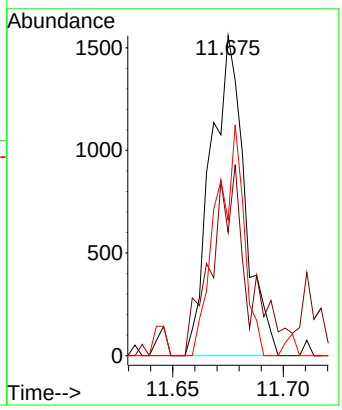


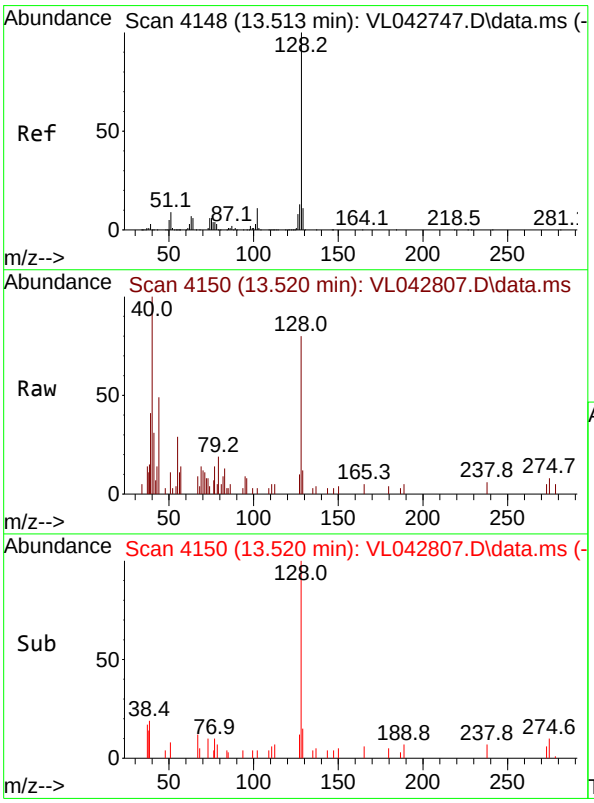
#76
1,4-Dichlorobenzene
Concen: 0.046 ppbv
RT: 11.675 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion:146 Resp: 1657

Ion	Ratio	Lower	Upper
146	100		
111	79.0	21.4	64.2#
148	64.2	32.1	96.3

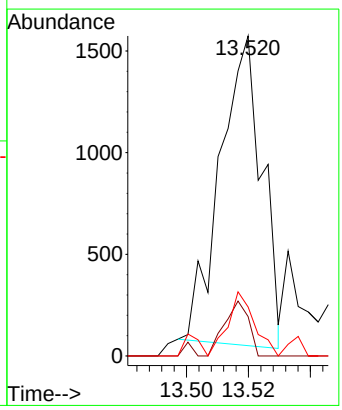


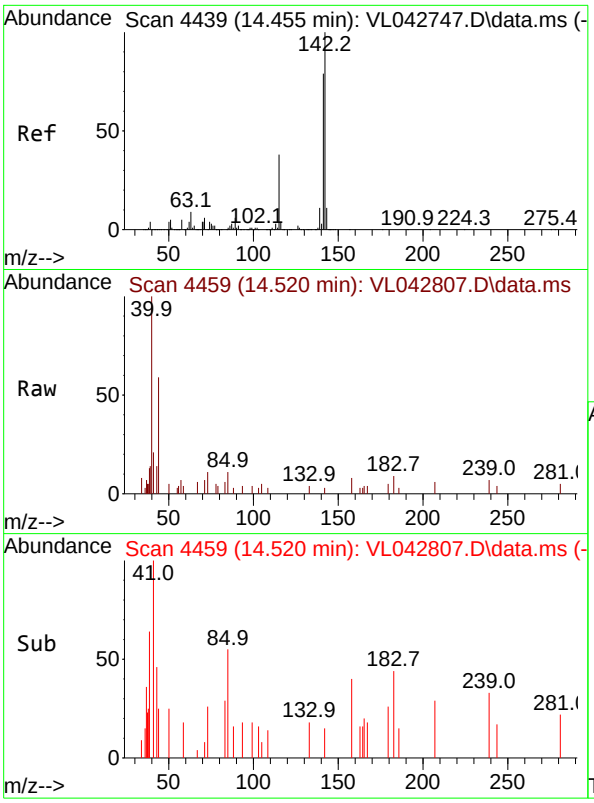


#79
Naphthalene
Concen: 0.459 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion:128 Resp: 1422

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	16.2	8.6	13.0#



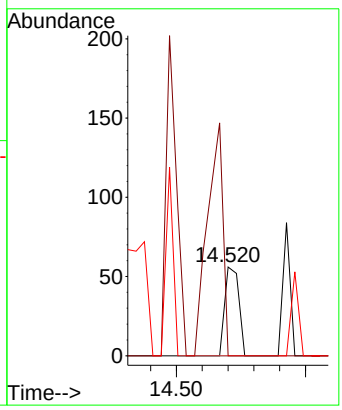


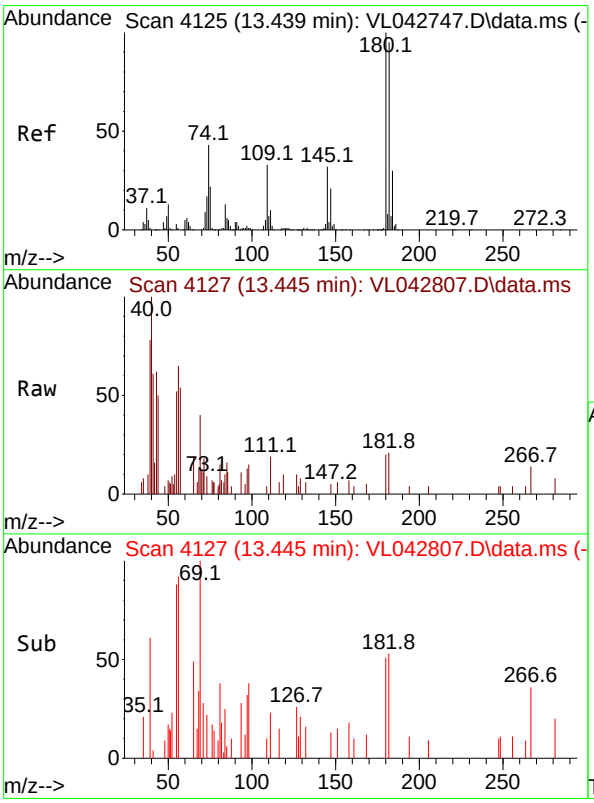
#80
Naphthalene,2-methyl-
Concen: 1.129 ppbv
RT: 14.520 min Scan# 44
Delta R.T. 0.065 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion:142 Resp: 21

Ion	Ratio	Lower	Upper
142	100		
141	566.7	65.8	98.8#
115	300.0	31.2	46.8#

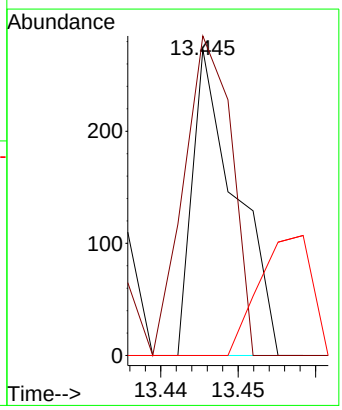




#81
1,2,4-Trichlorobenzene
Concen: 0.438 ppbv
RT: 13.445 min Scan# 4127
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion:180 Resp: 106

Ion	Ratio	Lower	Upper
180	100		
182	152.8	76.2	114.2#
184	0.0	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042808.D
Acq On : 04 Aug 2025 16:51
Operator : SY/MD
Sample : Q2750-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Quant Time: Aug 05 01:09:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

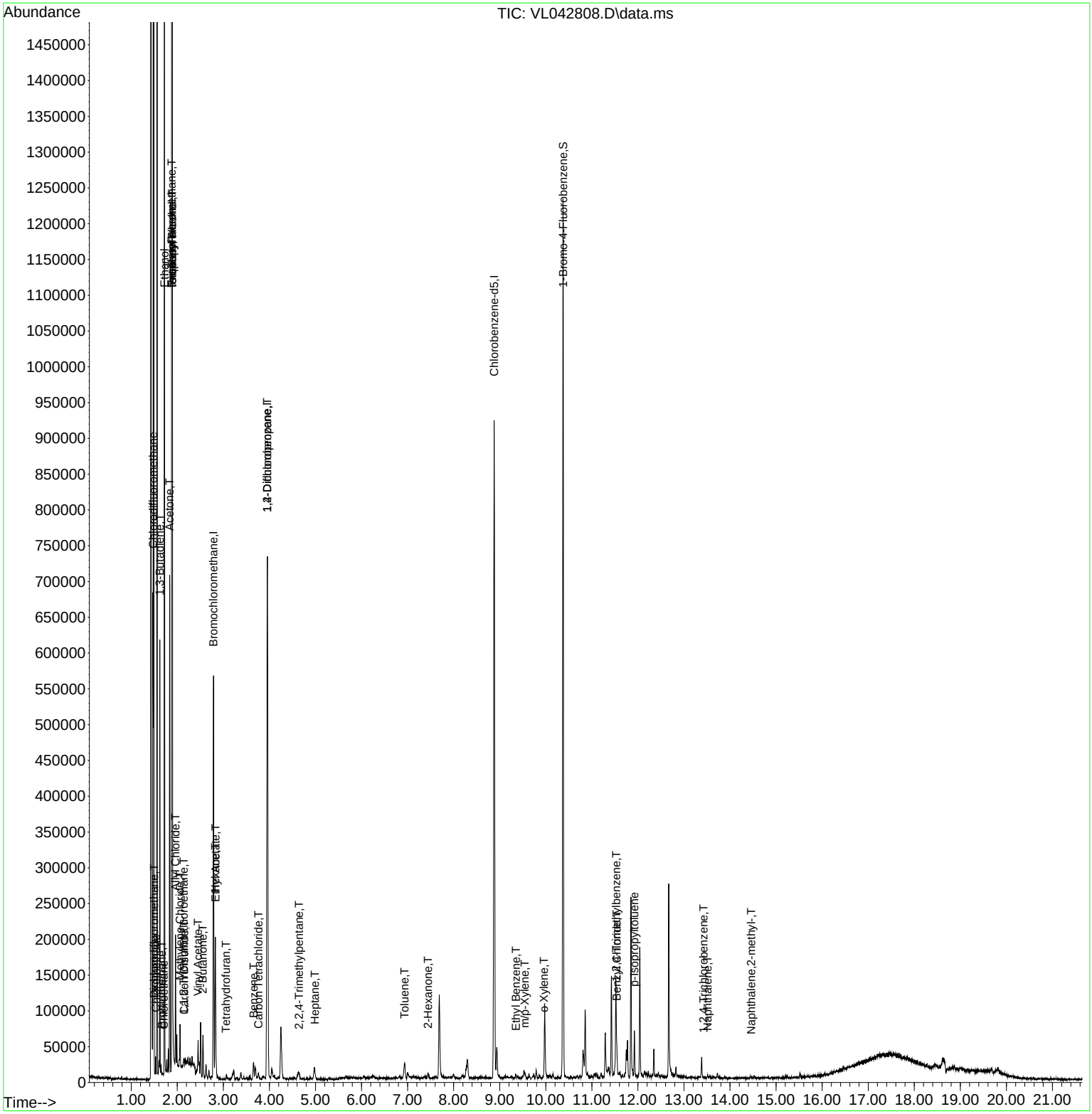
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	152020	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	420636	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	367596	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	293841	10.094	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10303	0.513	ppbv	99
3) Chlorodifluoromethane	1.473	51	210688	8.047	ppbv	98
4) Chloromethane	1.531	50	7293	0.897	ppbv	99
6) Bromomethane	1.667	94	380	0.122	ppbv #	68
7) Chloroethane	1.706	64	235	0.076	ppbv #	74
9) Propene	1.887	41	488180	51.301	ppbv	92
10) Heptane	4.985	43	2971	0.116	ppbv #	8
11) Trichlorofluoromethane	1.877	101	5149	0.249	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.140	101	1206	0.077	ppbv	92
13) Ethanol	1.722	45	712063	1026.518	ppbv	90
15) Acetone	1.832	43	309064	14.723	ppbv	95
16) 1,3-Butadiene	1.622	39	29495	3.294	ppbv #	23
17) tert-Butyl alcohol	1.887	59	201114	10.623	ppbv #	94
19) Isopropyl Alcohol	1.887	45	2902165	260.163	ppbv #	39
20) Methylene Chloride	2.059	84	8310	1.256	ppbv	96
21) Allyl Chloride	1.962	41	25429	1.966	ppbv #	22
23) Vinyl Acetate	2.450	43	26592	1.045	ppbv	99
25) Ethyl Acetate	2.829	43	39530	0.851	ppbv #	92
26) Hexane	2.826	57	42822	2.101	ppbv #	48
27) Carbon Disulfide	2.149	76	3071	0.176	ppbv #	67
34) 2-Butanone	2.554	43	38827	1.303	ppbv	98
35) Carbon Tetrachloride	3.761	117	2354	0.075	ppbv #	75
36) Benzene	3.658	78	12707	0.319	ppbv	98
39) 1,2-Dichloropropane	3.955	63	109037	7.410	ppbv #	22
41) Tetrahydrofuran	3.055	42	477	0.031	ppbv #	38
44) 2,2,4-Trimethylpentane	4.645	57	2268	0.035	ppbv #	41
51) 2-Hexanone	7.441	43	1937	0.067	ppbv #	34
53) Toluene	6.933	91	13897	0.325	ppbv	99
58) Ethyl Benzene	9.354	91	1785	0.031	ppbv	95
59) m/p-Xylene	9.545	91	1829	0.039	ppbv #	30
60) o-Xylene	9.962	91	1906	0.041	ppbv #	61
66) Benzyl Chloride	11.542	91	975	0.196	ppbv #	70
69) p-Isopropyltoluene	11.924	119	20163	0.286	ppbv	96
74) 1,2,4-Trimethylbenzene	11.532	105	5708	0.115	ppbv #	63
79) Naphthalene	13.513	128	1257	0.457	ppbv #	88
80) Naphthalene,2-methyl-	14.461	142	212	1.135	ppbv #	74
81) 1,2,4-Trichlorobenzene	13.426	180	70	0.437	ppbv #	12

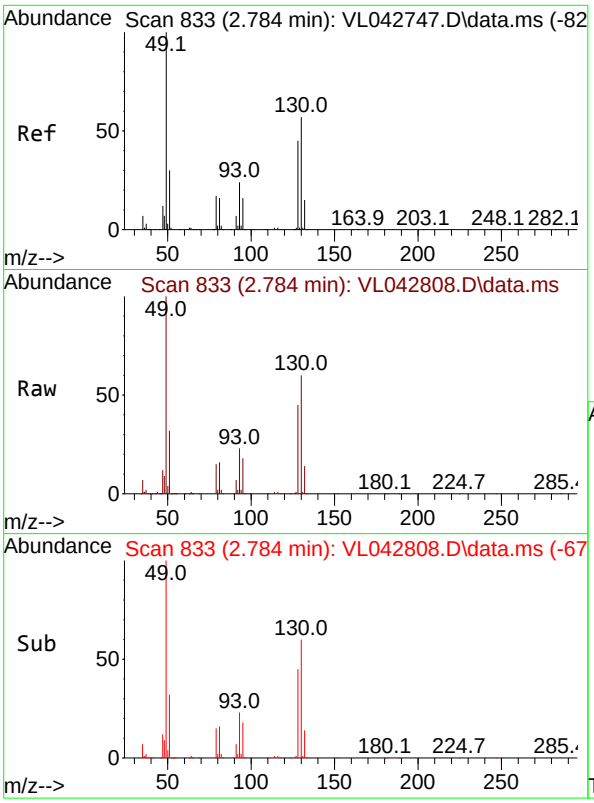
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042808.D
Acq On : 04 Aug 2025 16:51
Operator : SY/MD
Sample : Q2750-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Quant Time: Aug 05 01:09:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



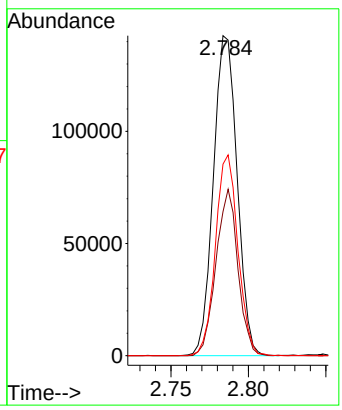


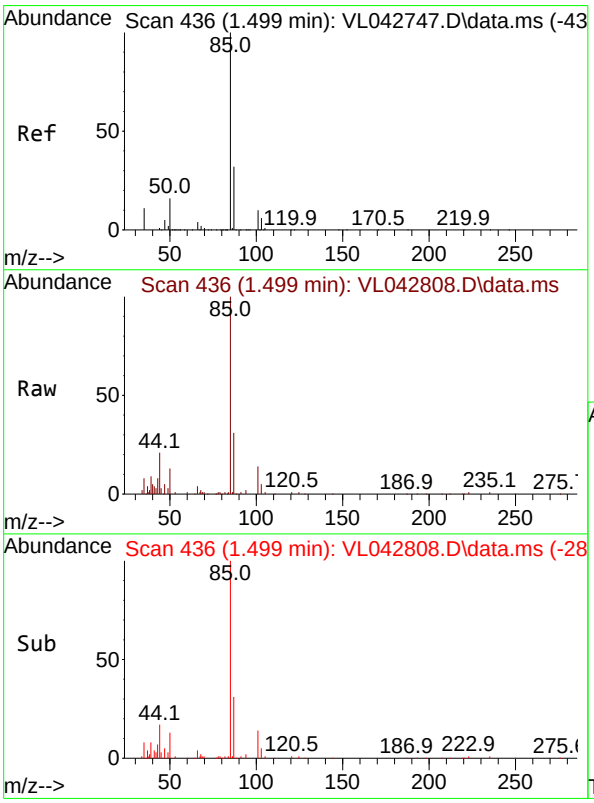
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 49 Resp: 152020

Ion	Ratio	Lower	Upper
49	100		
128	48.0	23.6	71.0
130	59.4	30.3	90.8

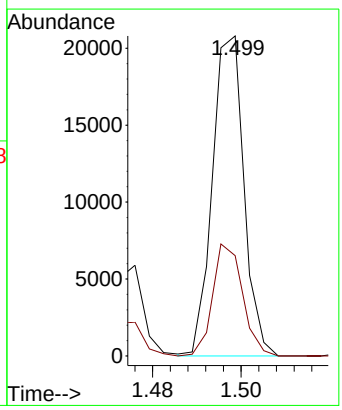


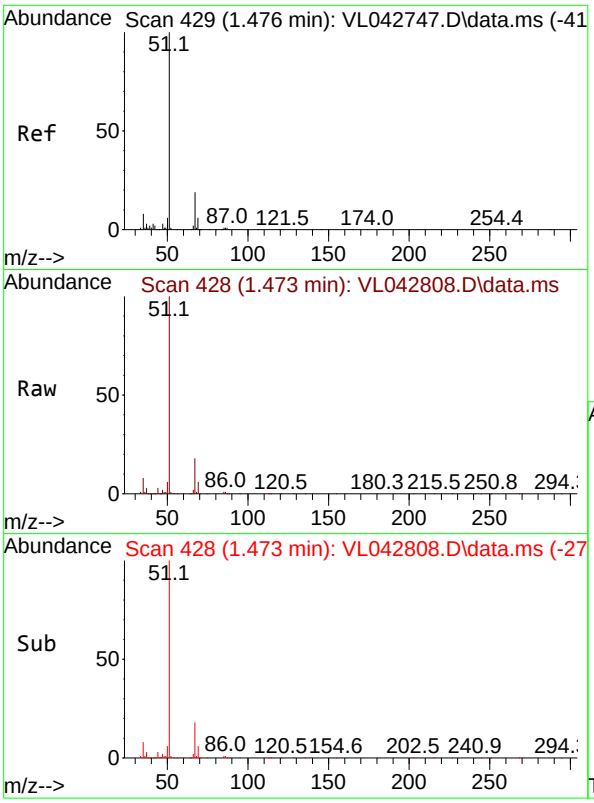


#2
Dichlorodifluoromethane
Concen: 0.513 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 85 Resp: 10303

Ion	Ratio	Lower	Upper
85	100		
87	31.3	25.4	38.2



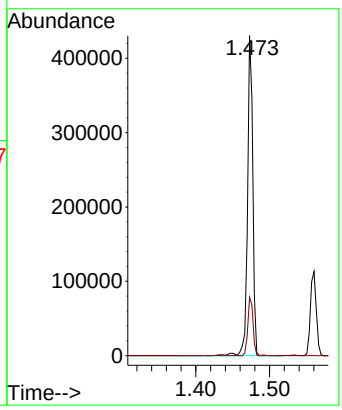


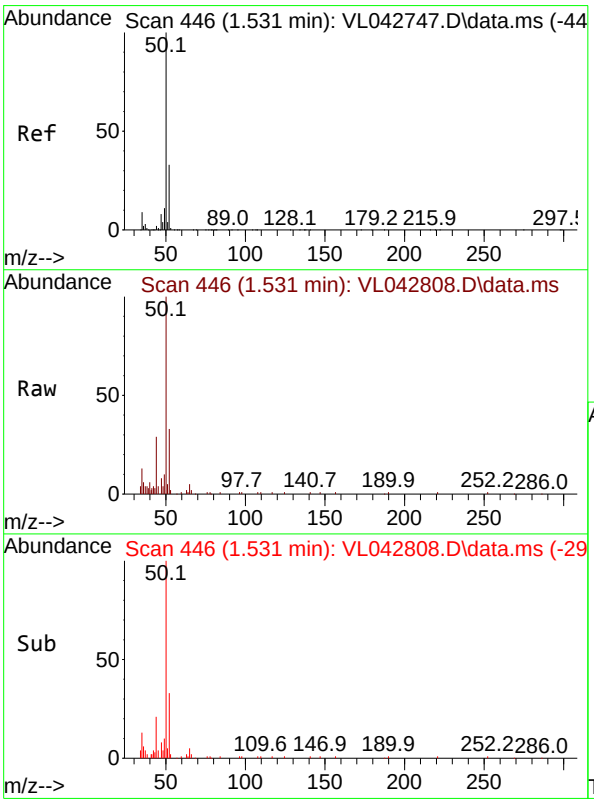
#3
Chlorodifluoromethane
Concen: 8.047 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 51 Resp: 210688

Ion	Ratio	Lower	Upper
51	100		
67	18.0	15.0	22.6

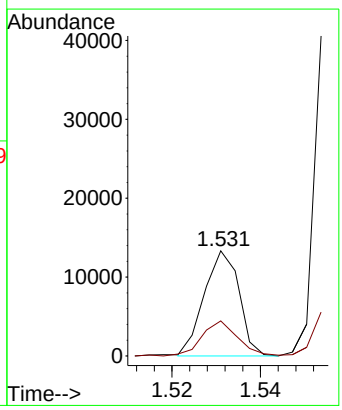


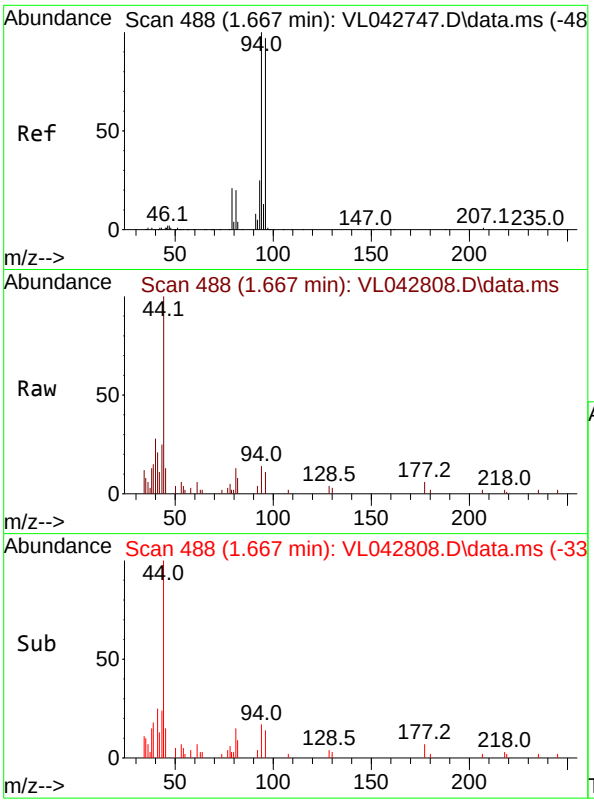


#4
Chloromethane
Concen: 0.897 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 50 Resp: 7293

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.6	40.0



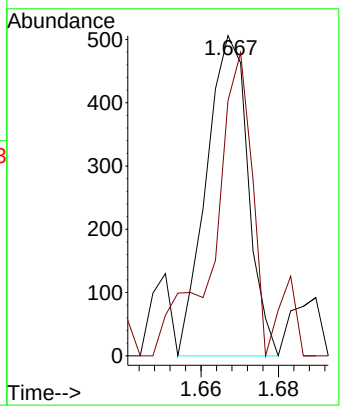


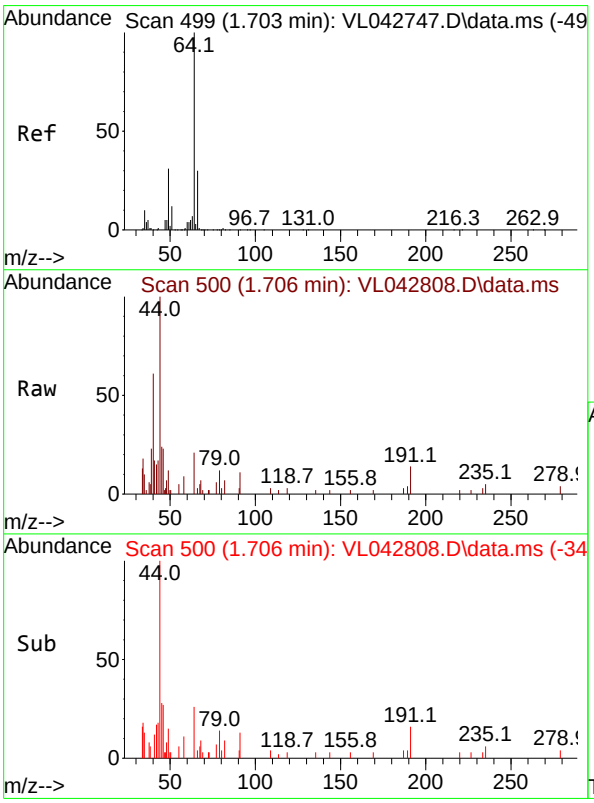
#6
Bromomethane
Concen: 0.122 ppbv
RT: 1.667 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 94 Resp: 380

Ion	Ratio	Lower	Upper
94	100		
96	65.4	77.6	116.4#

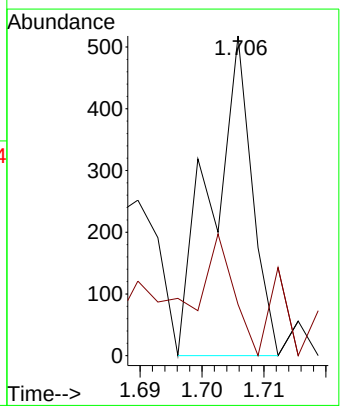


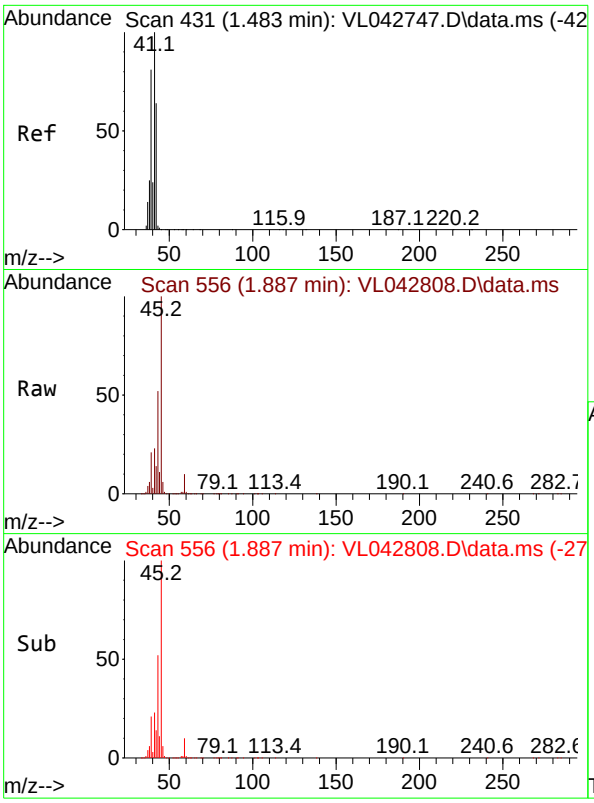


#7
Chloroethane
Concen: 0.076 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 64 Resp: 235

Ion	Ratio	Lower	Upper
64	100		
66	16.0	24.1	36.1#



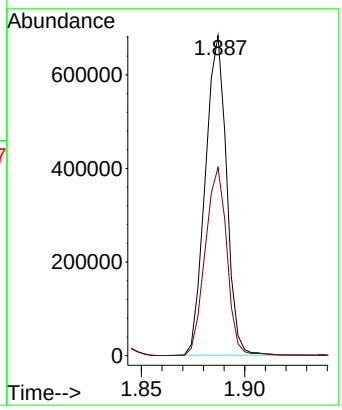


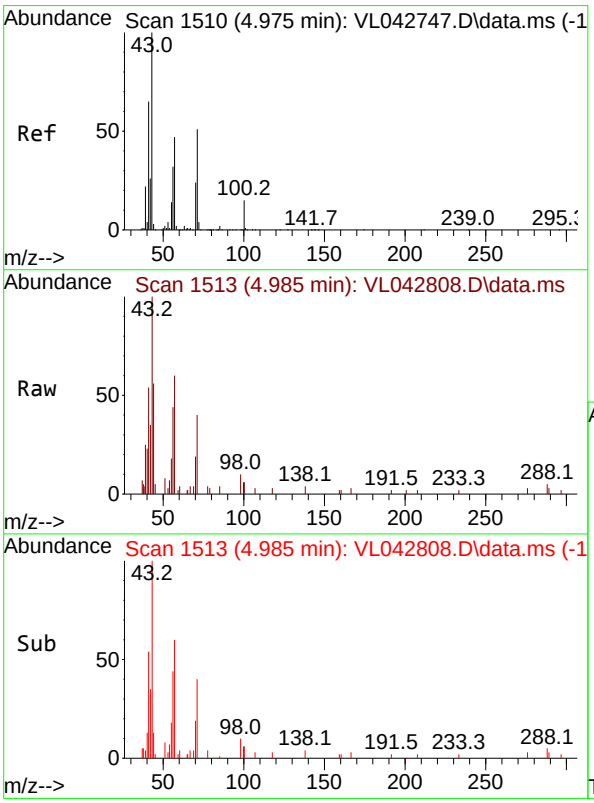
#9
Propene
Concen: 51.301 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.404 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 41 Resp: 488180

Ion	Ratio	Lower	Upper
41	100		
42	60.1	53.2	79.8

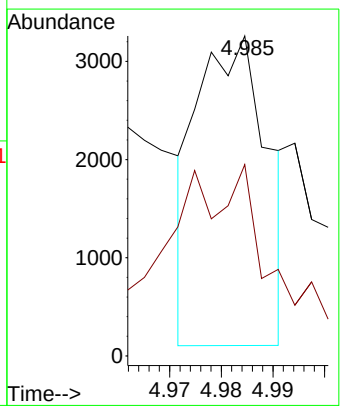


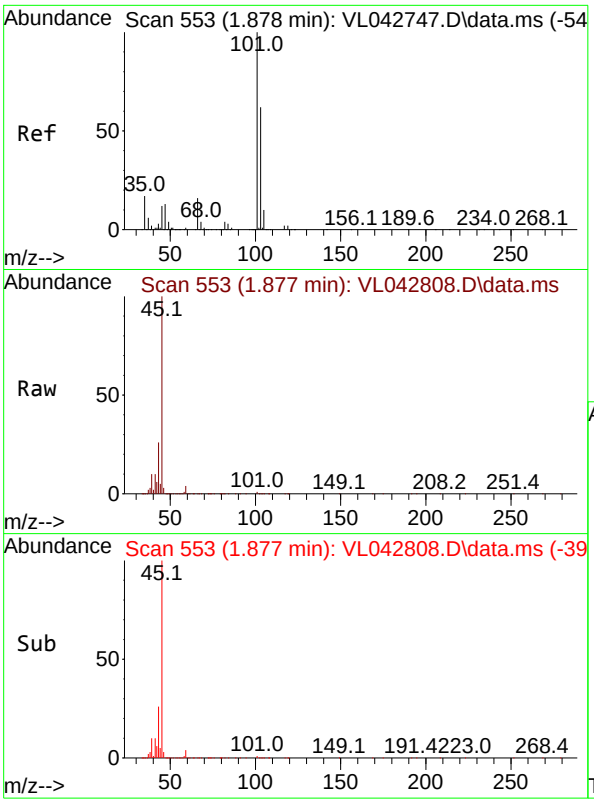


#10
Heptane
Concen: 0.116 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.010 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 43 Resp: 2971

Ion	Ratio	Lower	Upper
43	100		
57	113.1	39.9	59.9#



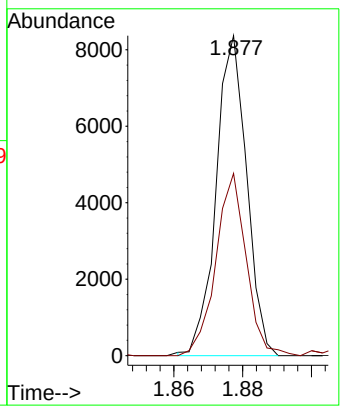


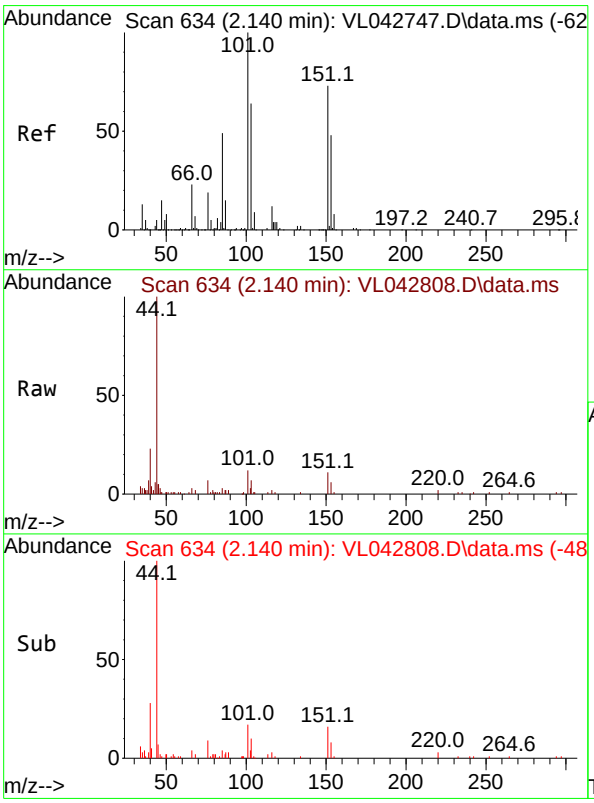
#11
Trichlorofluoromethane
Concen: 0.249 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion:101 Resp: 5149

Ion	Ratio	Lower	Upper
101	100		
103	56.9	49.6	74.4

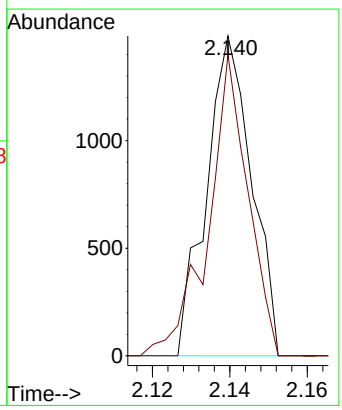


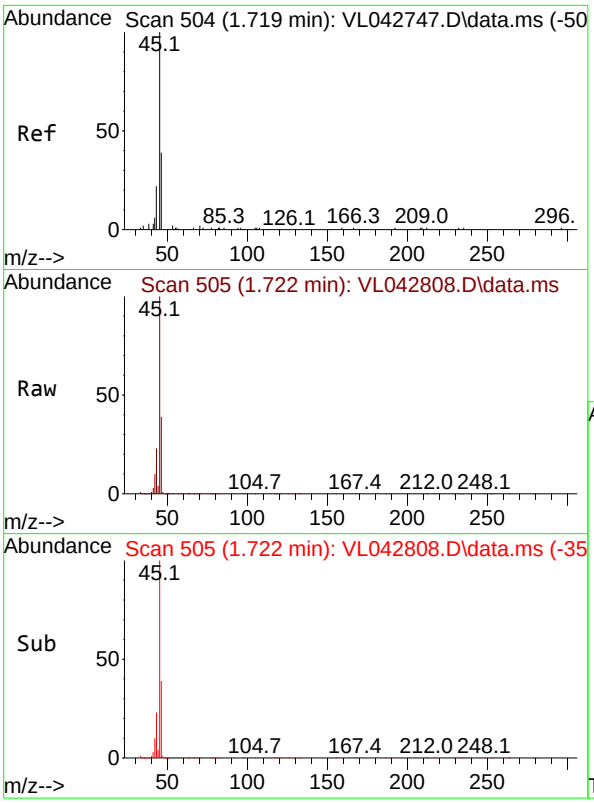


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.077 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion:101 Resp: 1206

Ion	Ratio	Lower	Upper
101	100		
151	82.4	60.5	90.7



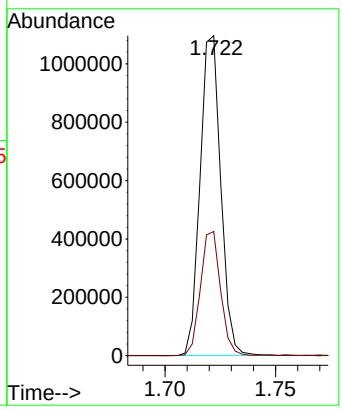


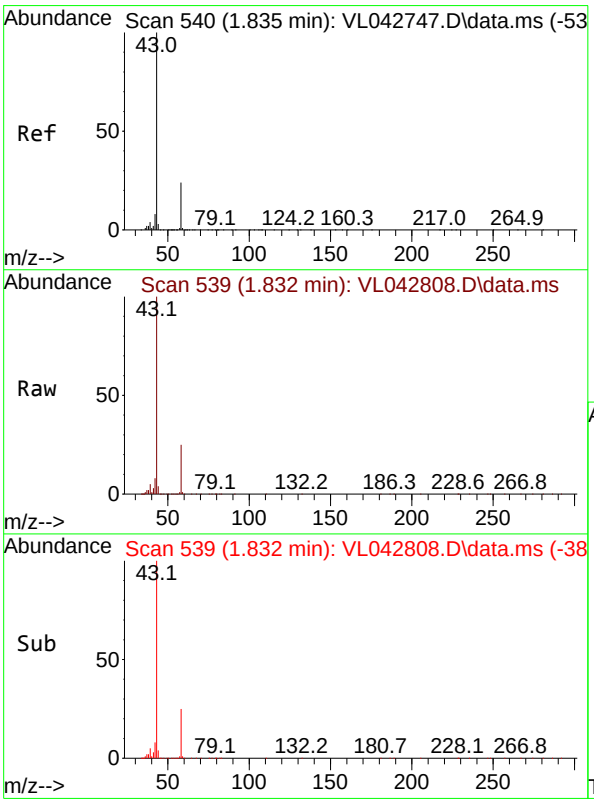
#13
Ethanol
Concen: 1026.518 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 45 Resp: 712063

Ion	Ratio	Lower	Upper
45	100		
46	38.1	17.8	71.4

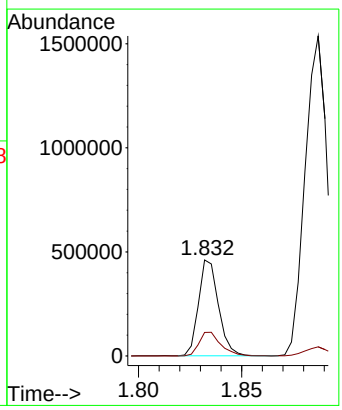


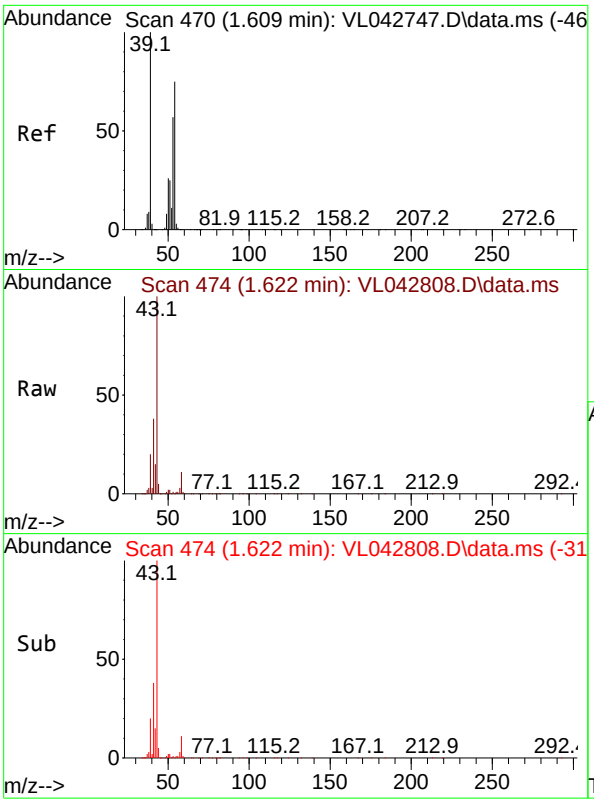


#15
Acetone
Concen: 14.723 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 43 Resp: 309064

Ion	Ratio	Lower	Upper
43	100		
58	27.3	19.8	29.8



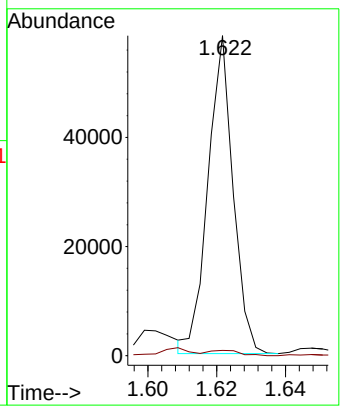


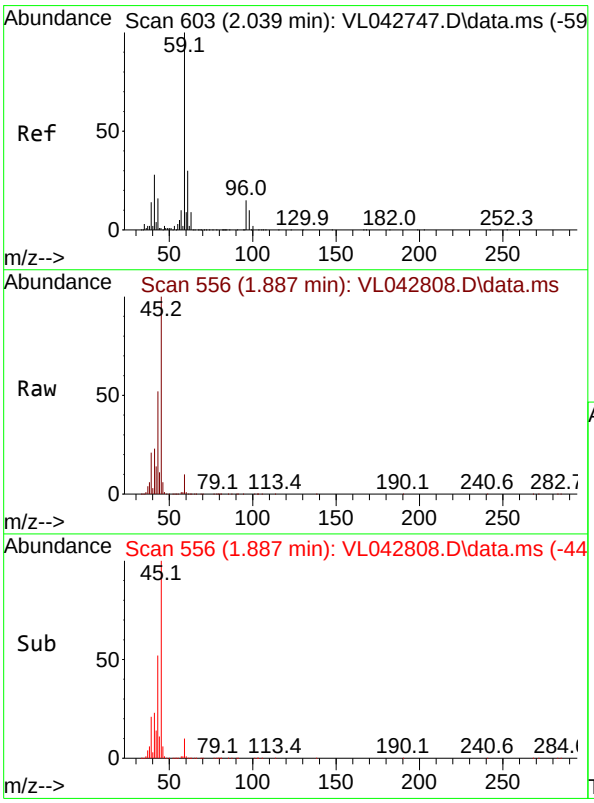
#16
1,3-Butadiene
Concen: 3.294 ppbv
RT: 1.622 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 39 Resp: 29495

Ion	Ratio	Lower	Upper
39	100		
54	5.6	54.5	81.7#

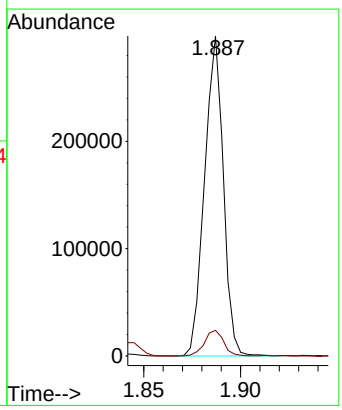


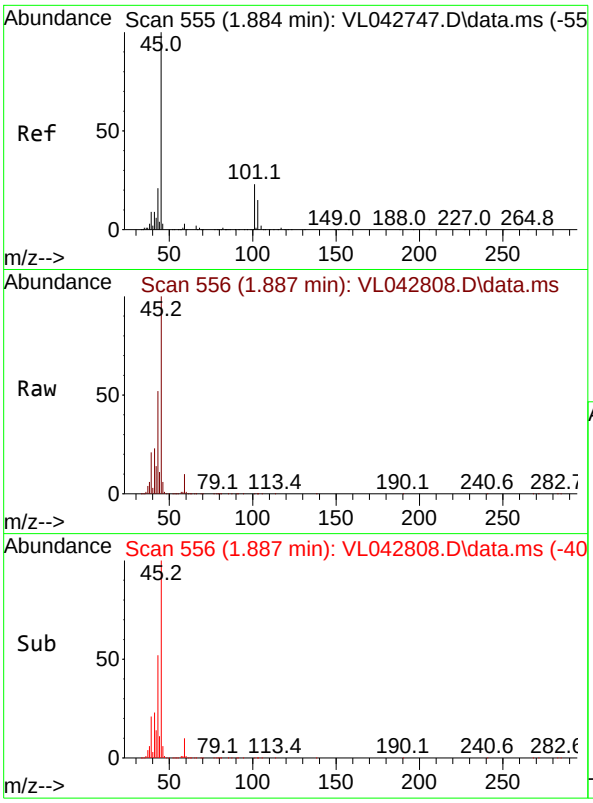


#17
tert-Butyl alcohol
Concen: 10.623 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.152 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 59 Resp: 201114

Ion	Ratio	Lower	Upper
59	100		
57	8.3	8.3	12.5#



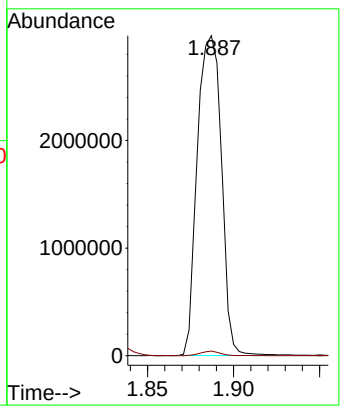


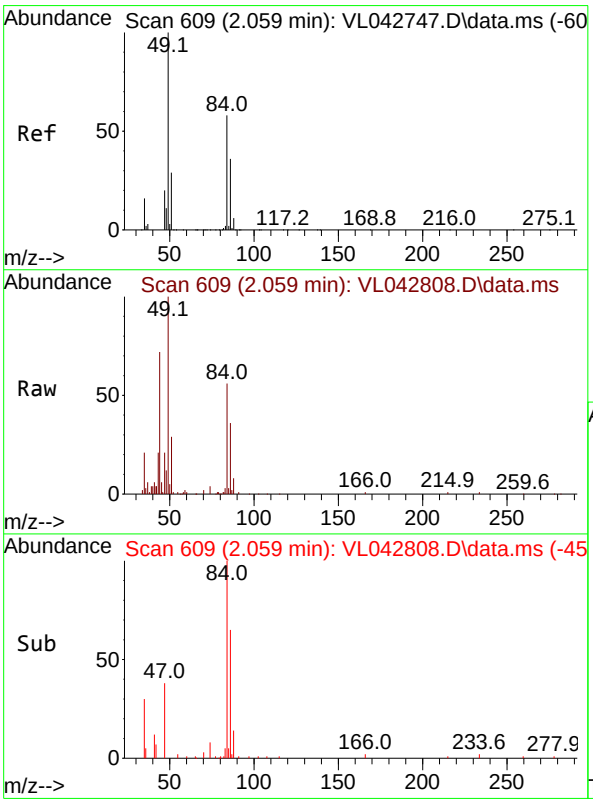
#19
Isopropyl Alcohol
Concen: 260.163 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 45 Resp: 2902165

Ion	Ratio	Lower	Upper
45	100		
58	1.2	30.0	45.0#

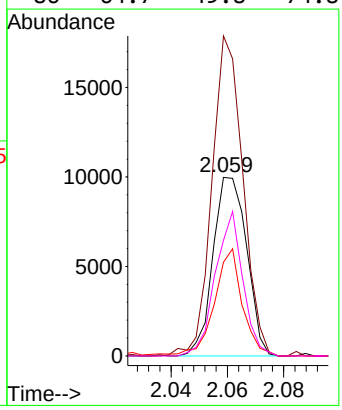


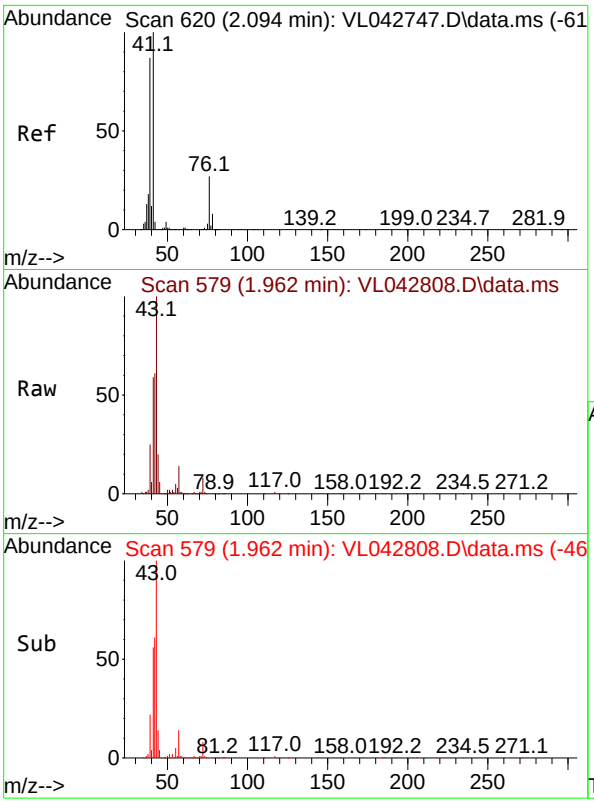


#20
Methylene Chloride
Concen: 1.256 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 84 Resp: 8310

Ion	Ratio	Lower	Upper
84	100		
49	179.2	138.6	208.0
51	52.5	40.6	61.0
86	64.7	49.8	74.8



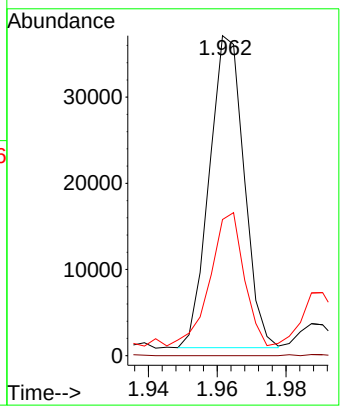


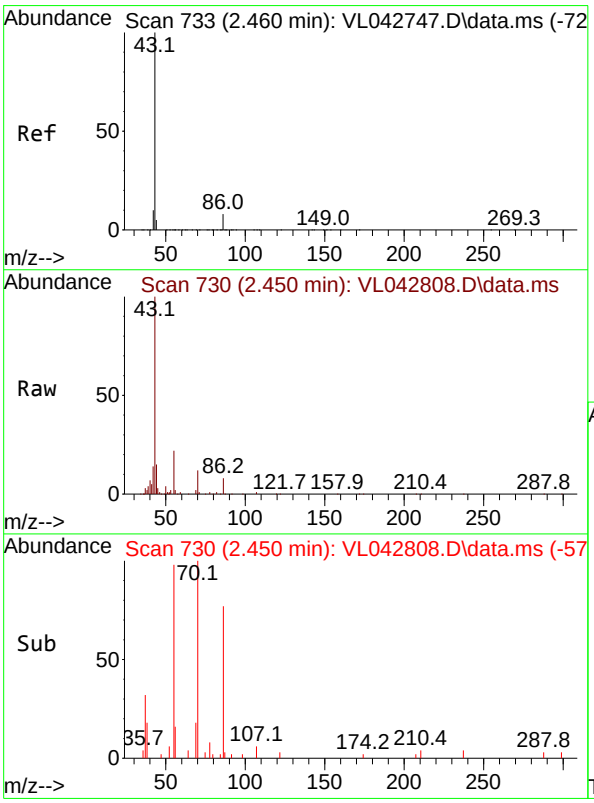
#21
Allyl Chloride
Concen: 1.966 ppbv
RT: 1.962 min Scan# 5
Delta R.T. -0.133 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 41 Resp: 25429

Ion	Ratio	Lower	Upper
41	100		
76	12.1	21.1	31.7#
39	0.0	68.3	102.5#

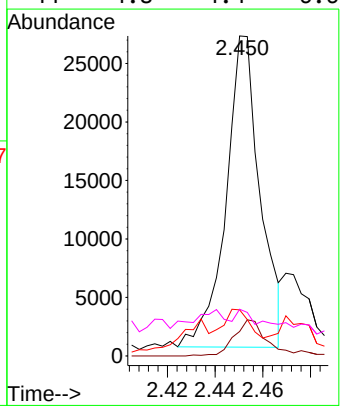


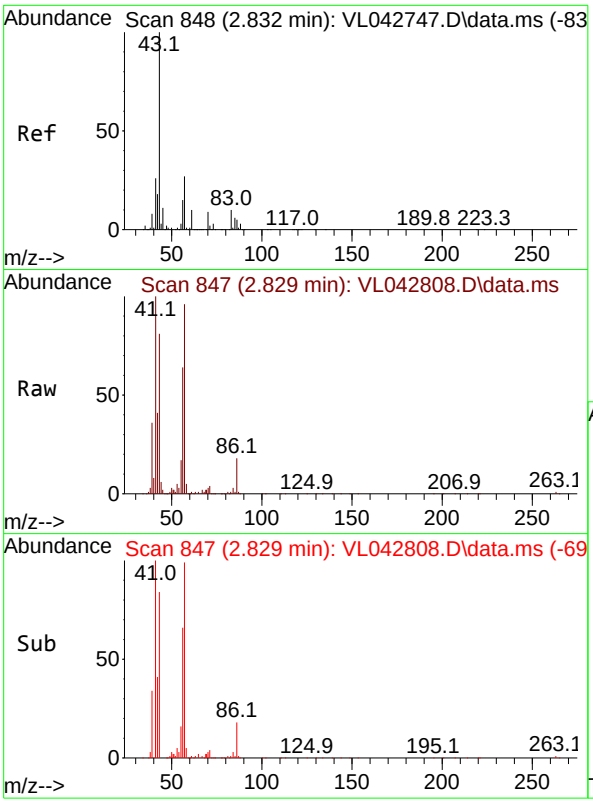


#23
Vinyl Acetate
Concen: 1.045 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.010 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 43 Resp: 26592

Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.1	9.1
42	9.2	7.8	11.8
44	4.8	4.4	6.6



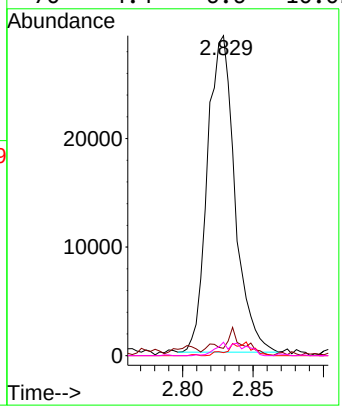


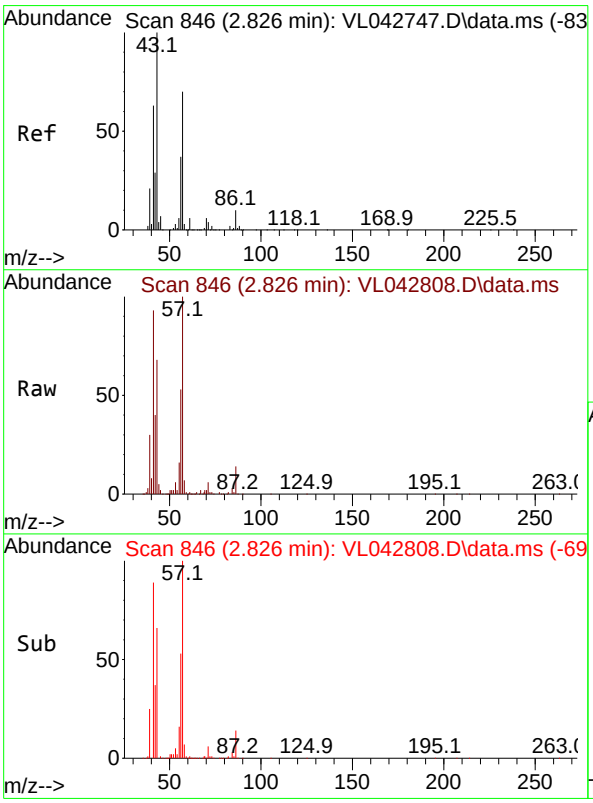
#25
Ethyl Acetate
Concen: 0.851 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 43 Resp: 39530

Ion	Ratio	Lower	Upper
43	100		
45	10.2	7.8	11.6
61	3.7	6.7	10.1#
70	4.4	6.6	10.0#

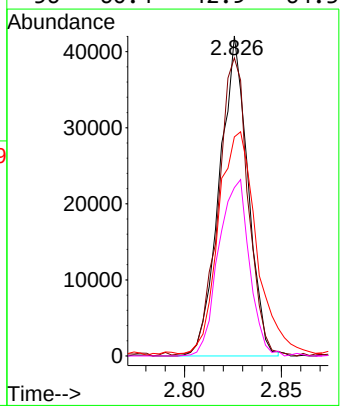


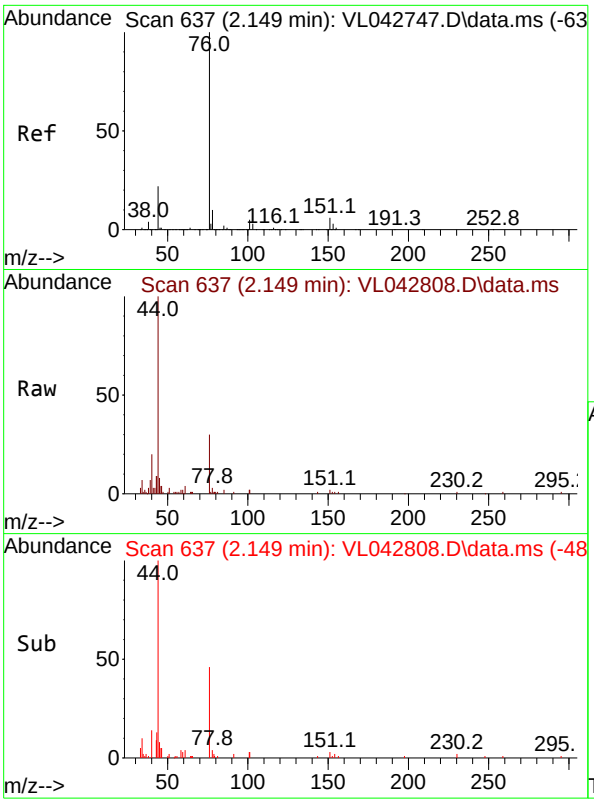


#26
Hexane
Concen: 2.101 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 57 Resp: 42822

Ion	Ratio	Lower	Upper
57	100		
41	100.2	75.4	113.2
43	96.8	185.0	277.6#
56	60.4	42.9	64.3



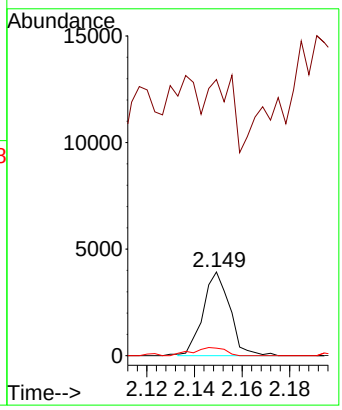


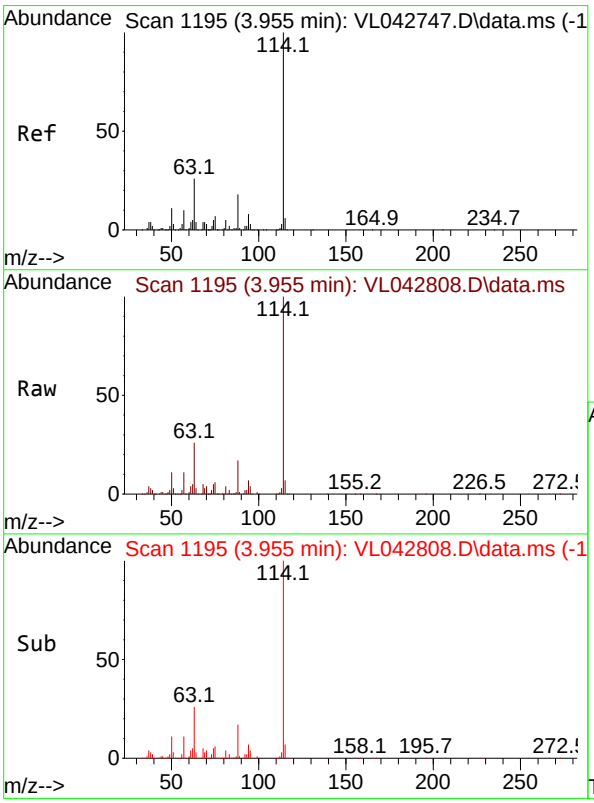
#27
Carbon Disulfide
Concen: 0.176 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 76 Resp: 3071

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	11.7	9.9	14.9

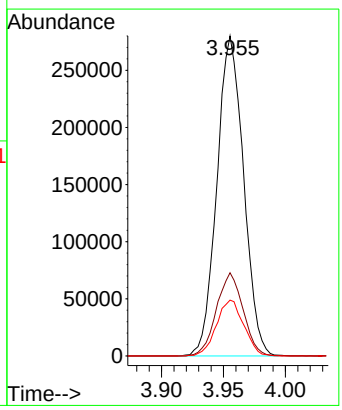


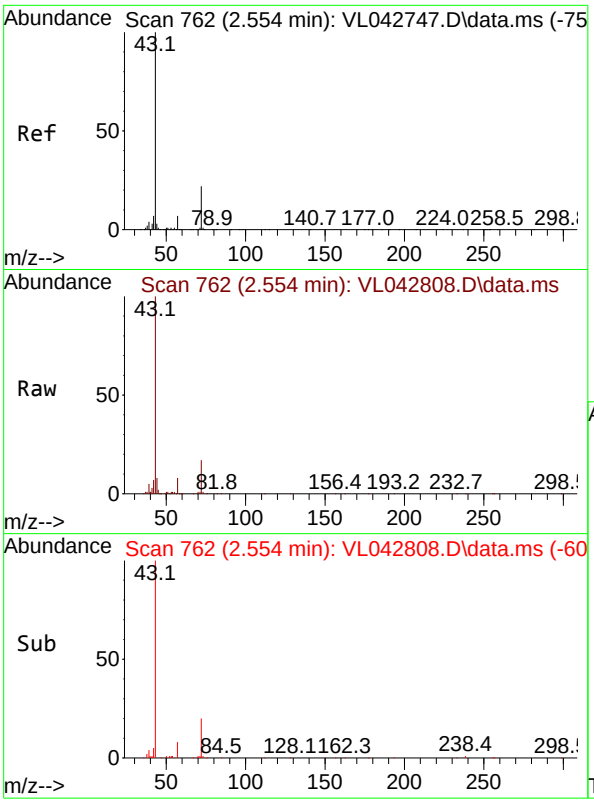


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion:114 Resp: 420636

Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.5	30.7
88	17.9	14.0	21.0



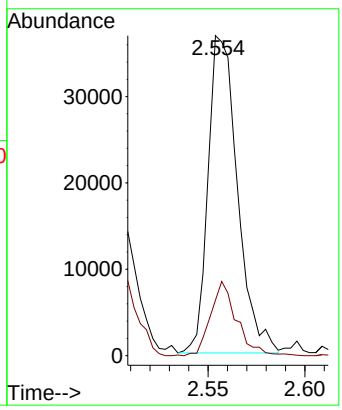


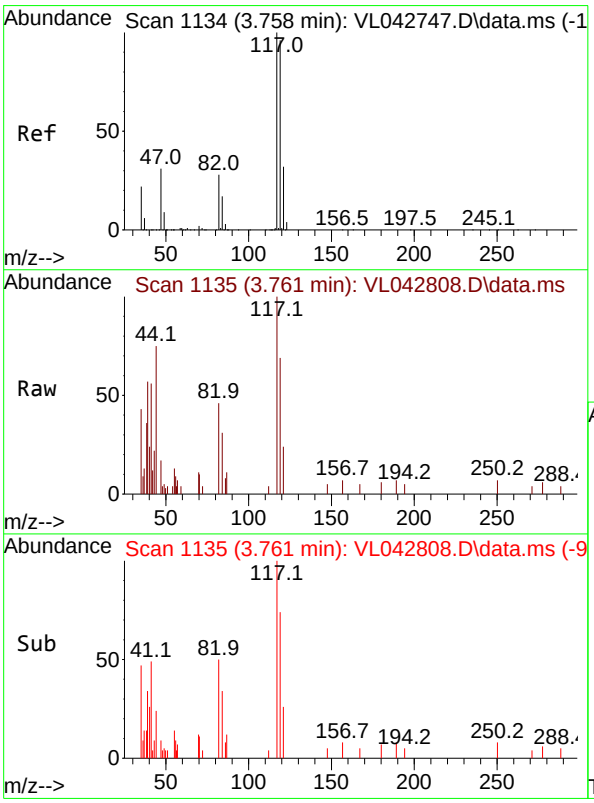
#34
2-Butanone
Concen: 1.303 ppbv
RT: 2.554 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 43 Resp: 38827

Ion	Ratio	Lower	Upper
43	100		
72	21.0	17.4	26.0

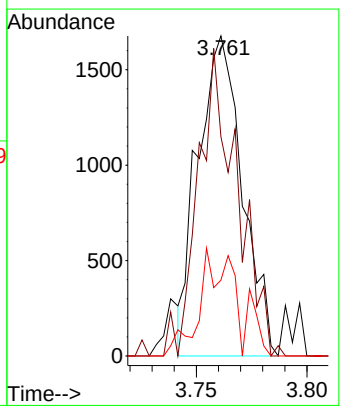


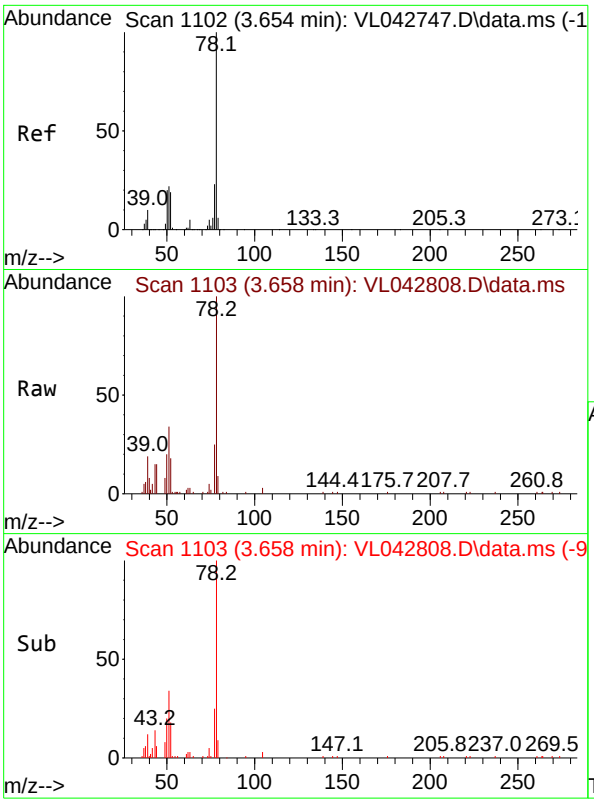


#35
Carbon Tetrachloride
Concen: 0.075 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion:117 Resp: 2354

Ion	Ratio	Lower	Upper
117	100		
119	68.6	77.1	115.7#
121	23.7	25.5	38.3#



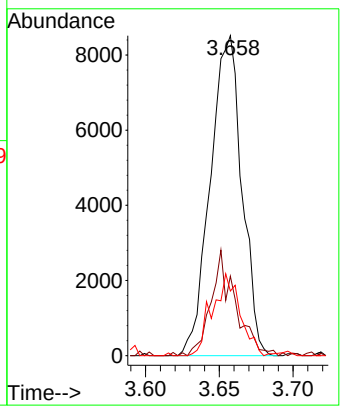


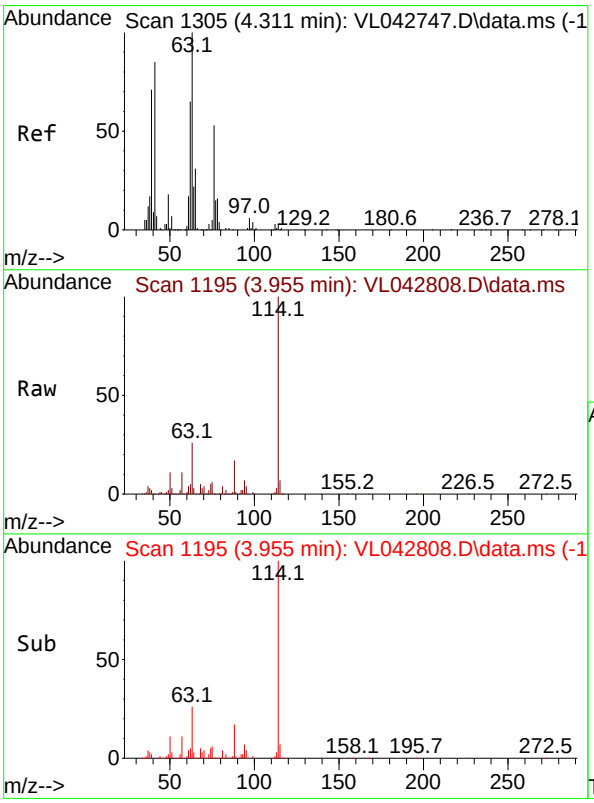
#36
Benzene
Concen: 0.319 ppbv
RT: 3.658 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 78 Resp: 12707

Ion	Ratio	Lower	Upper
78	100		
77	24.9	18.5	27.7
50	20.2	16.2	24.2

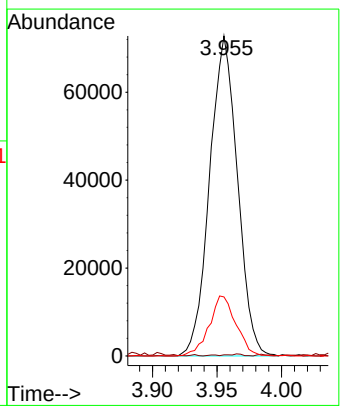


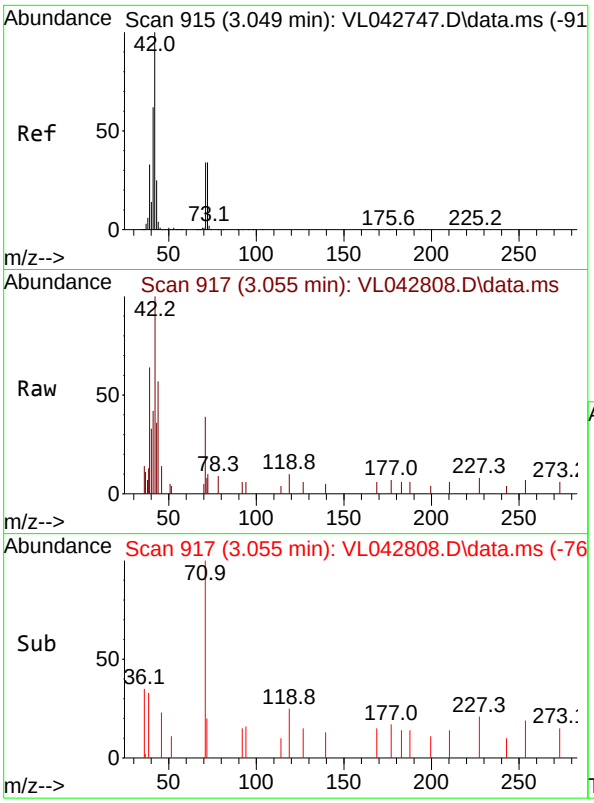


#39
1,2-Dichloropropane
Concen: 7.410 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 63 Resp: 109037

Ion	Ratio	Lower	Upper
63	100		
41	0.3	68.2	102.4#
62	18.3	52.0	78.0#



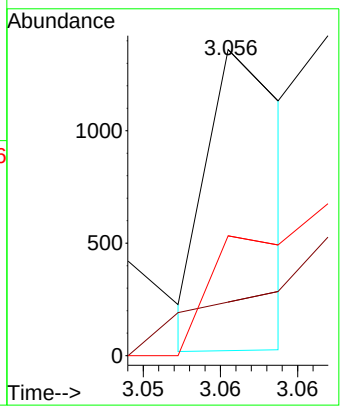


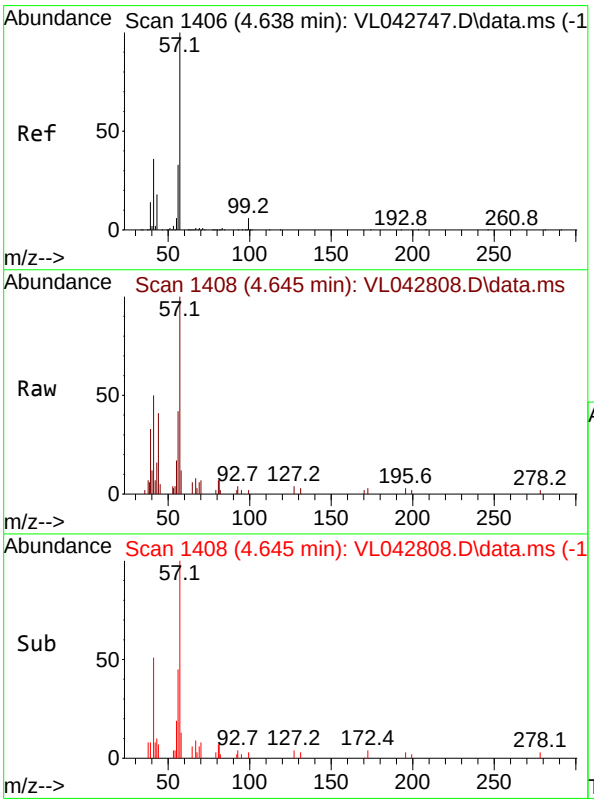
#41
Tetrahydrofuran
Concen: 0.031 ppbv
RT: 3.055 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 42 Resp: 477

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	0.0	28.6	43.0#

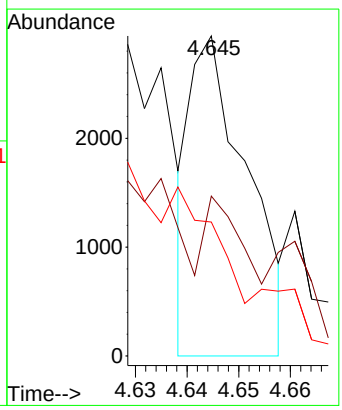


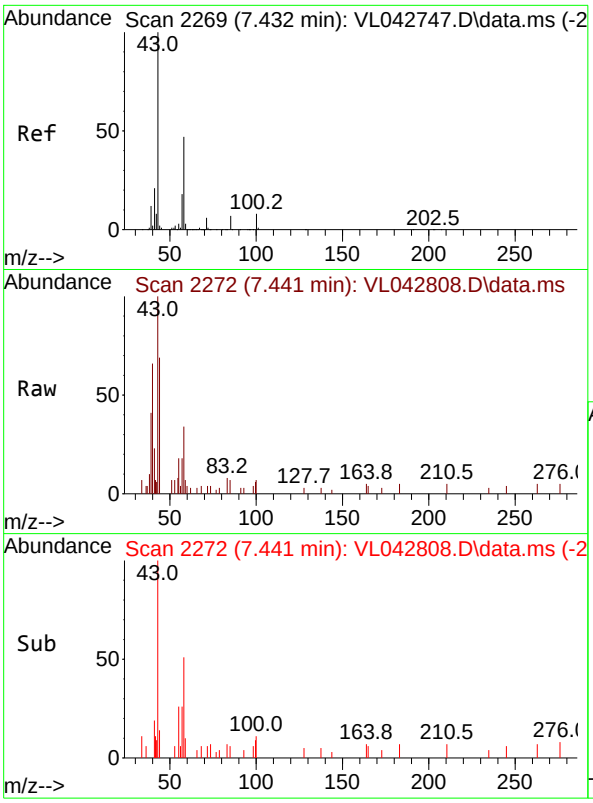


#44
2,2,4-Trimethylpentane
Concen: 0.035 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.006 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 57 Resp: 2268

Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.3	42.5#
56	0.0	25.8	38.6#



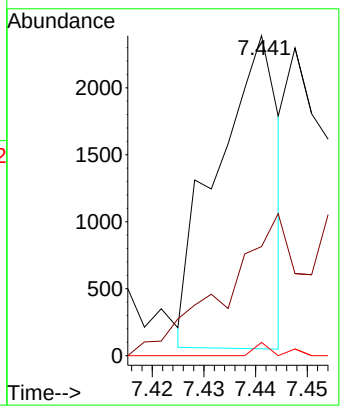


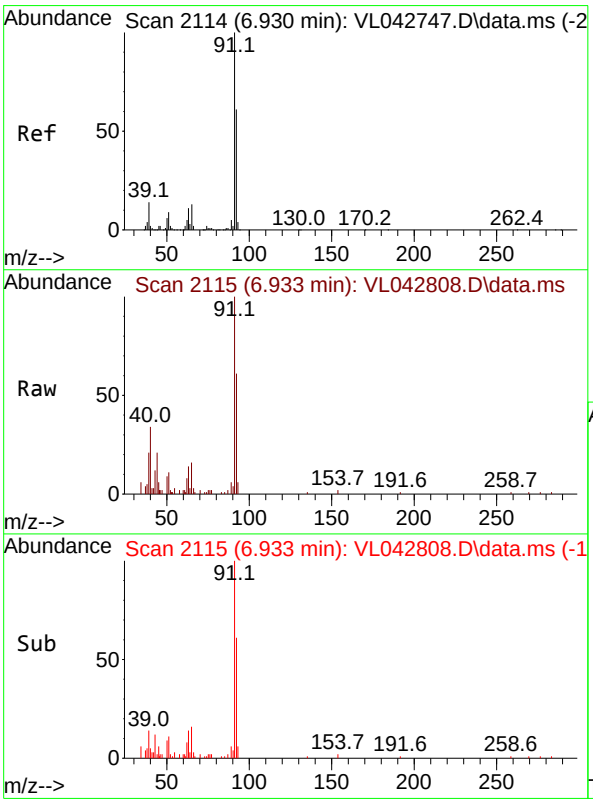
#51
2-Hexanone
Concen: 0.067 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 43 Resp: 1937

Ion	Ratio	Lower	Upper
43	100		
58	91.8	38.0	57.0#
98	0.0	0.2	0.4#

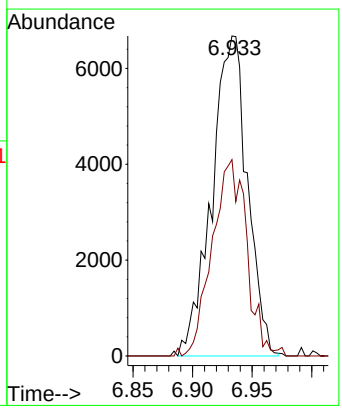


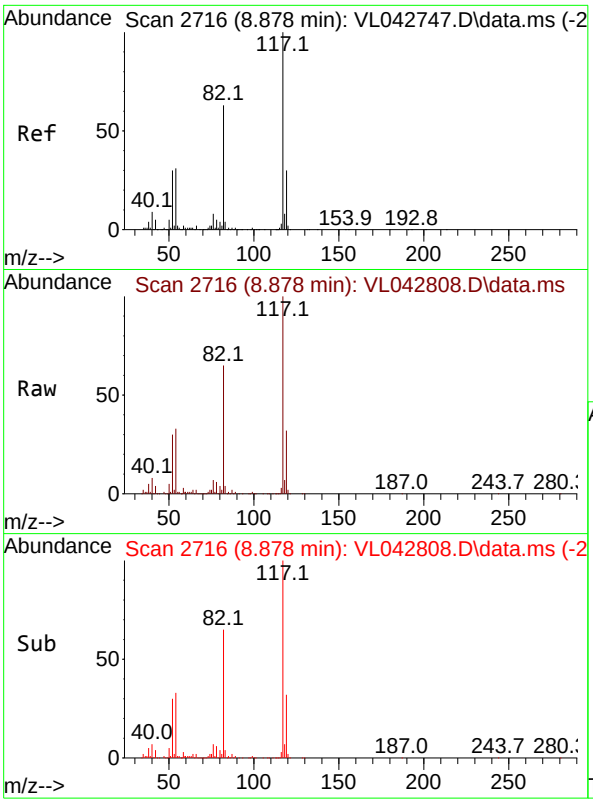


#53
Toluene
Concen: 0.325 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 91 Resp: 13897

Ion	Ratio	Lower	Upper
91	100		
92	59.5	48.0	72.0



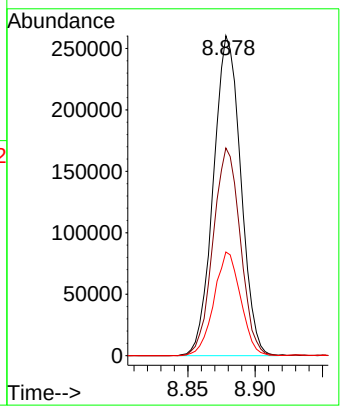


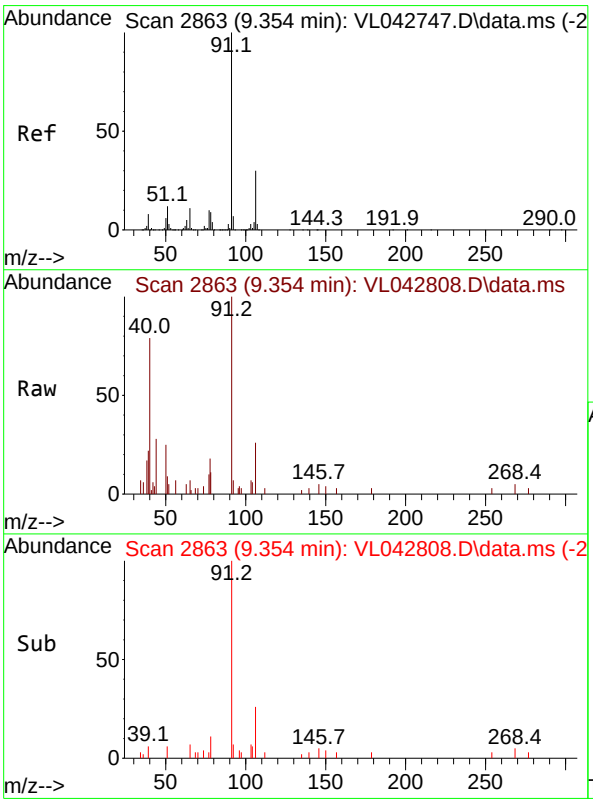
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion:117 Resp: 367596

Ion	Ratio	Lower	Upper
117	100		
82	64.9	53.3	79.9
119	31.6	25.8	38.6

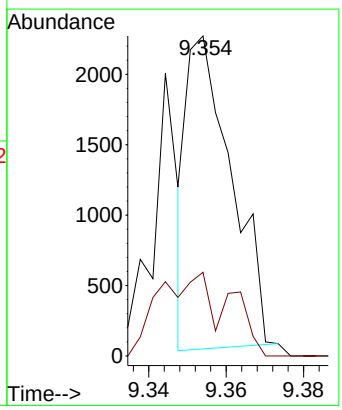


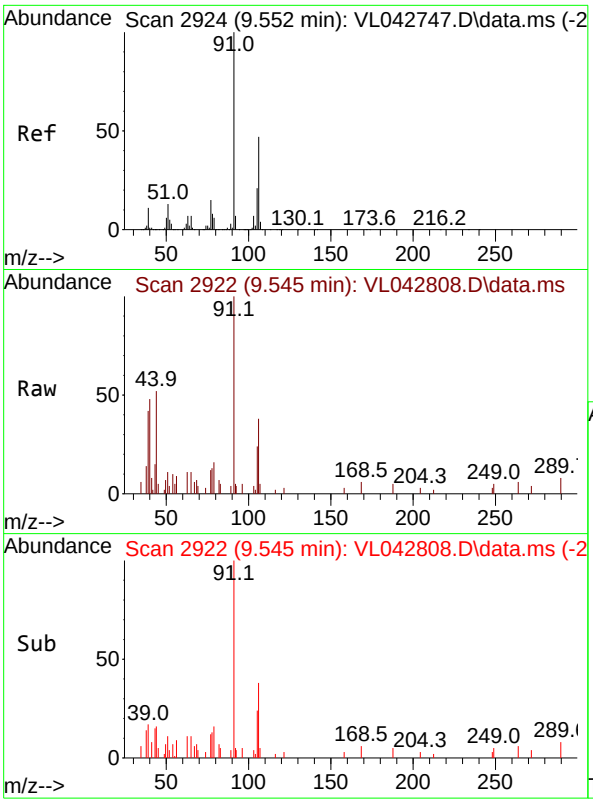


#58
Ethyl Benzene
Concen: 0.031 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 91 Resp: 1785

Ion	Ratio	Lower	Upper
91	100		
106	27.2	23.8	35.6



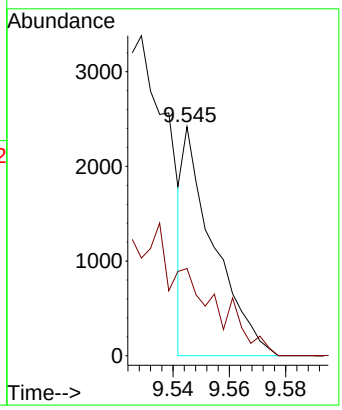


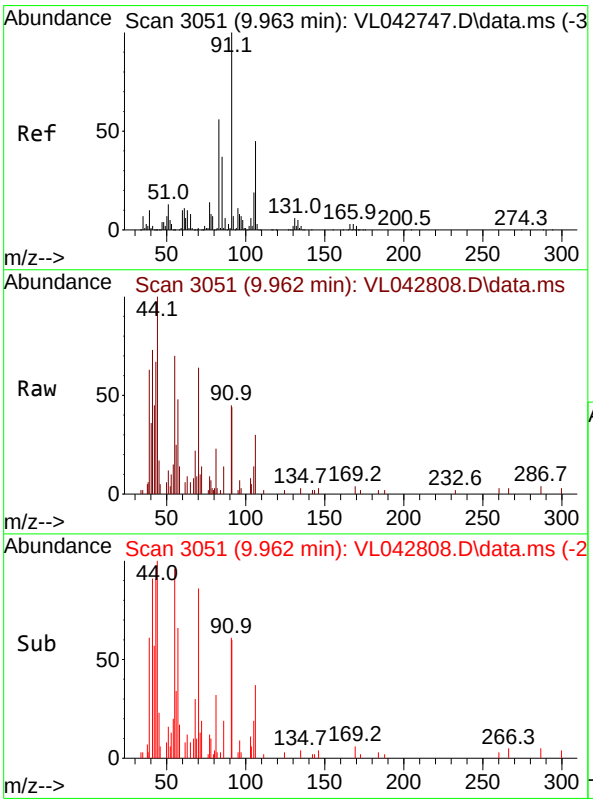
#59
m/p-Xylene
Concen: 0.039 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 91 Resp: 1829

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

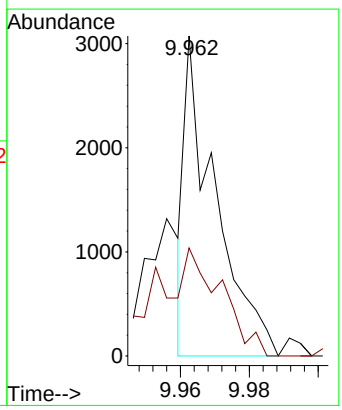


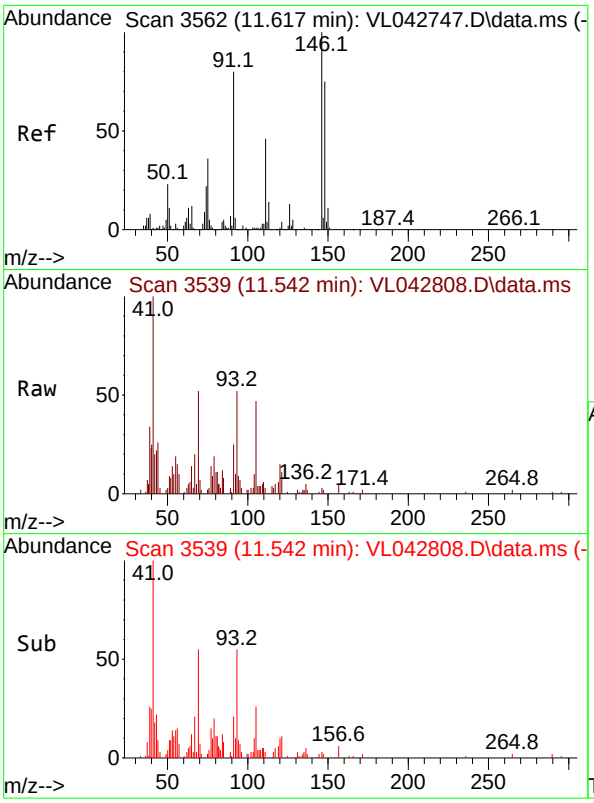


#60
o-Xylene
Concen: 0.041 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 91 Resp: 1906

Ion	Ratio	Lower	Upper
91	100		
106	69.3	22.0	66.0#



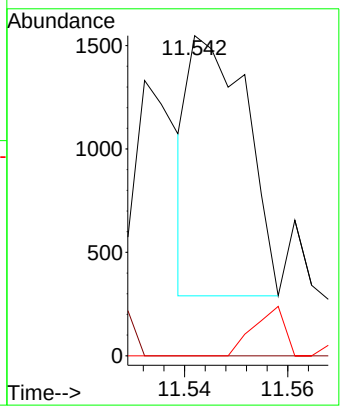


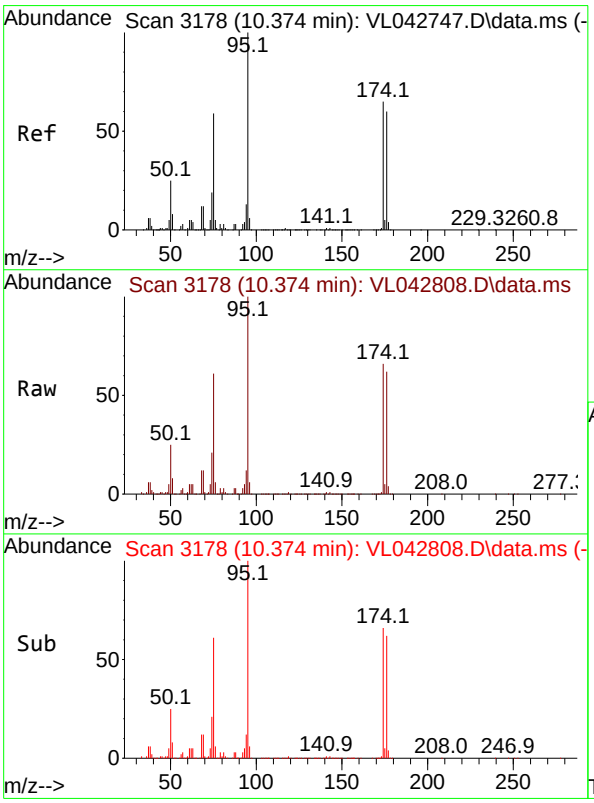
#66
Benzyl Chloride
Concen: 0.196 ppbv
RT: 11.542 min Scan# 3
Delta R.T. -0.075 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion: 91 Resp: 975

Ion	Ratio	Lower	Upper
91	100		
126	3.4	14.4	21.6#
128	13.2	5.2	7.8#

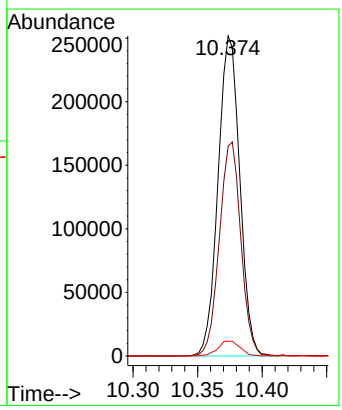


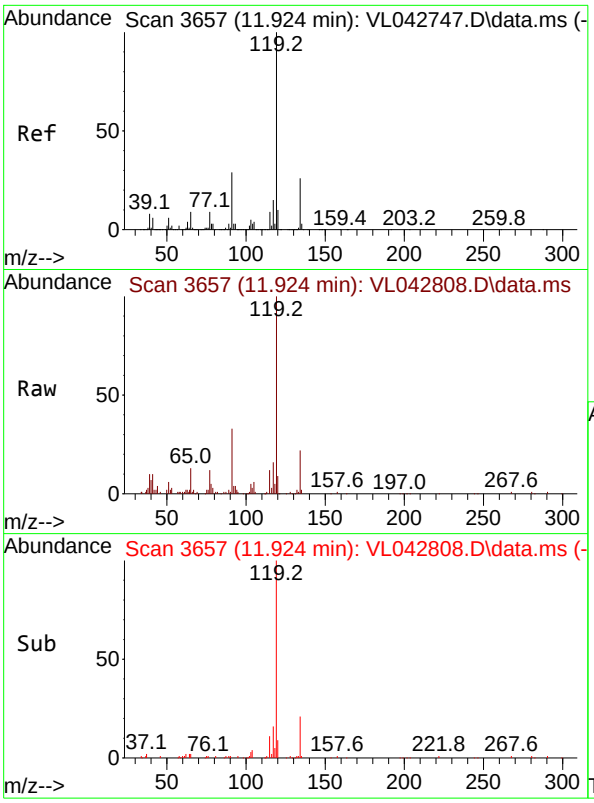


#68
1-Bromo-4-Fluorobenzene
Concen: 10.094 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion: 95 Resp: 293841

Ion	Ratio	Lower	Upper
95	100		
174	66.2	53.8	80.6
175	4.8	4.0	6.0



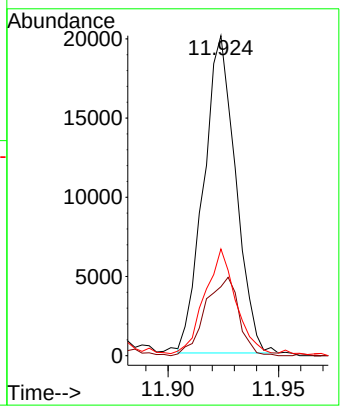


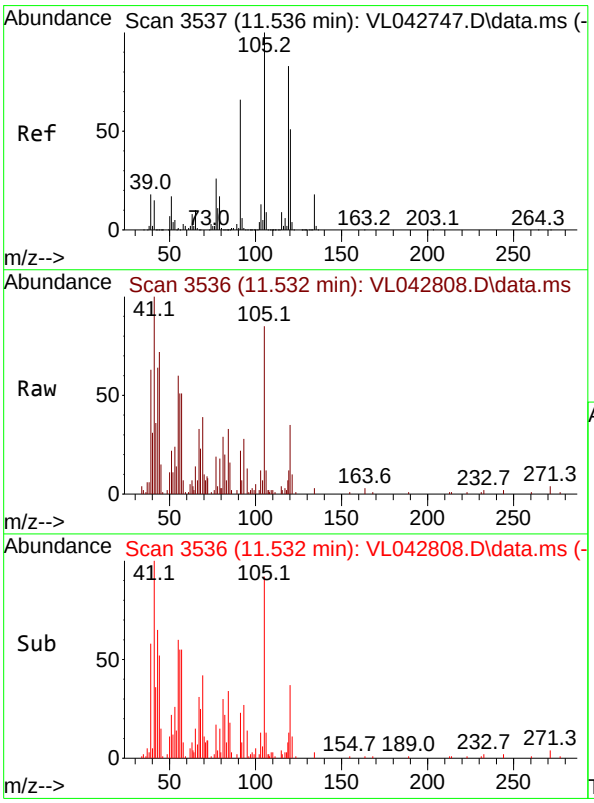
#69
p-Isopropyltoluene
Concen: 0.286 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion:119 Resp: 20163

Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.6	31.0
91	33.0	23.2	34.8

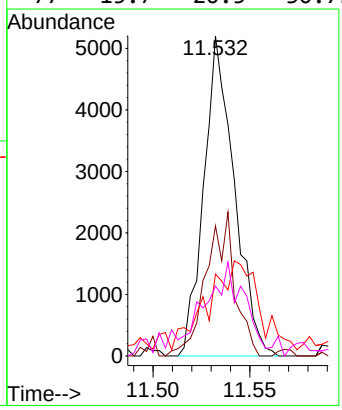


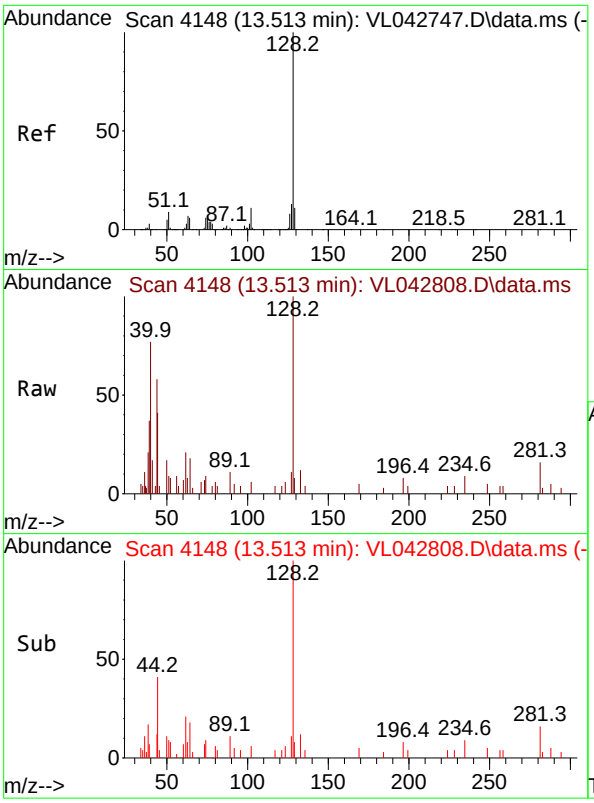


#74
1,2,4-Trimethylbenzene
Concen: 0.115 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion:105 Resp: 5708

Ion	Ratio	Lower	Upper
105	100		
120	39.2	40.8	61.2#
91	19.0	53.0	79.4#
77	15.7	20.5	30.7#



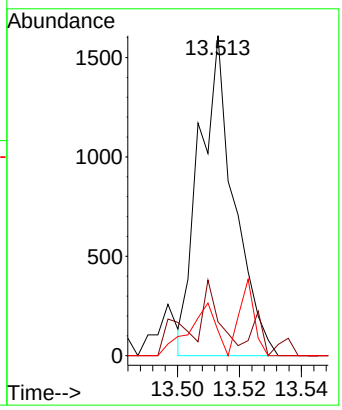


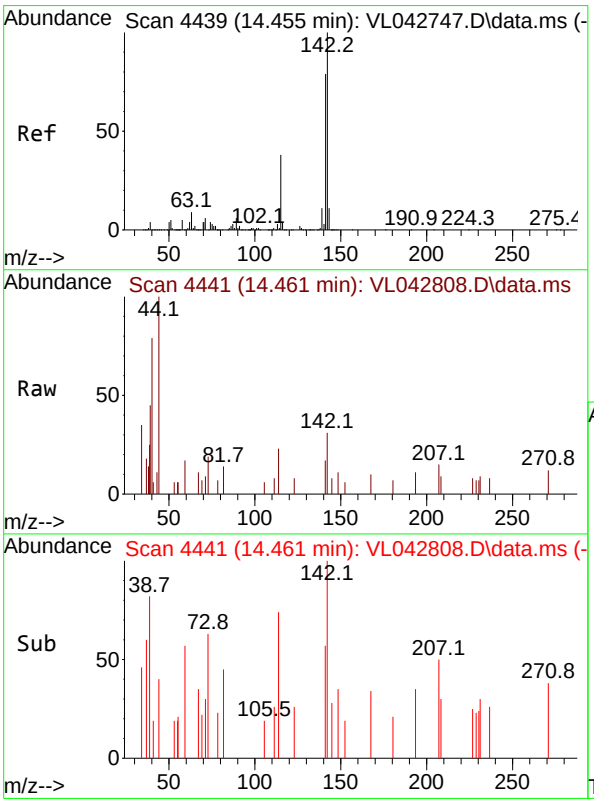
#79
Naphthalene
Concen: 0.457 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion:128 Resp: 1257

Ion	Ratio	Lower	Upper
128	100		
127	7.0	10.5	15.7#
129	7.8	8.6	13.0#

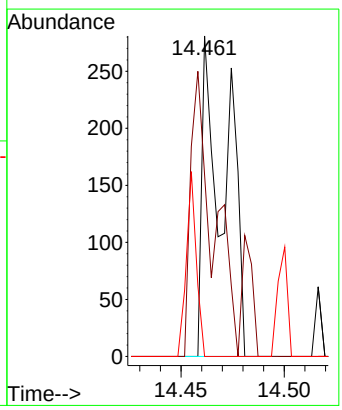


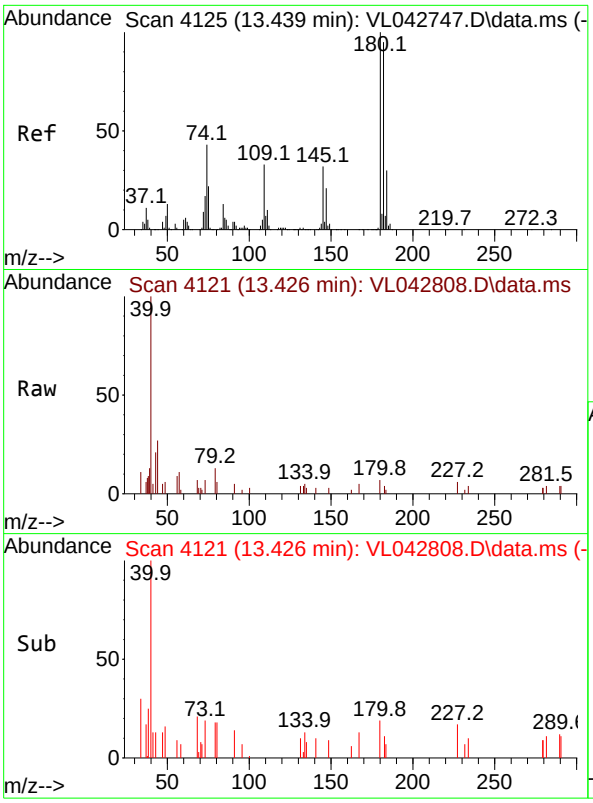


#80
Naphthalene,2-methyl-
Concen: 1.135 ppbv
RT: 14.461 min Scan# 4441
Delta R.T. 0.006 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion:142 Resp: 212

Ion	Ratio	Lower	Upper
142	100		
141	107.1	65.8	98.8#
115	25.9	31.2	46.8#



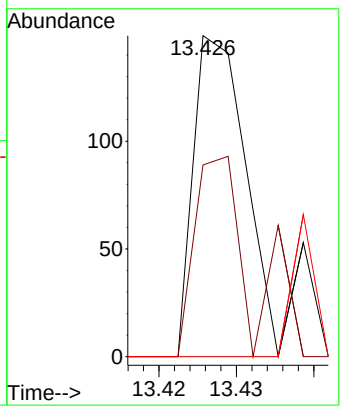


#81
1,2,4-Trichlorobenzene
Concen: 0.437 ppbv
RT: 13.426 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10

Tgt Ion:180 Resp: 70

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	0.0	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042809.D
Acq On : 04 Aug 2025 17:26
Operator : SY/MD
Sample : Q2750-10
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Quant Time: Aug 05 01:09:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

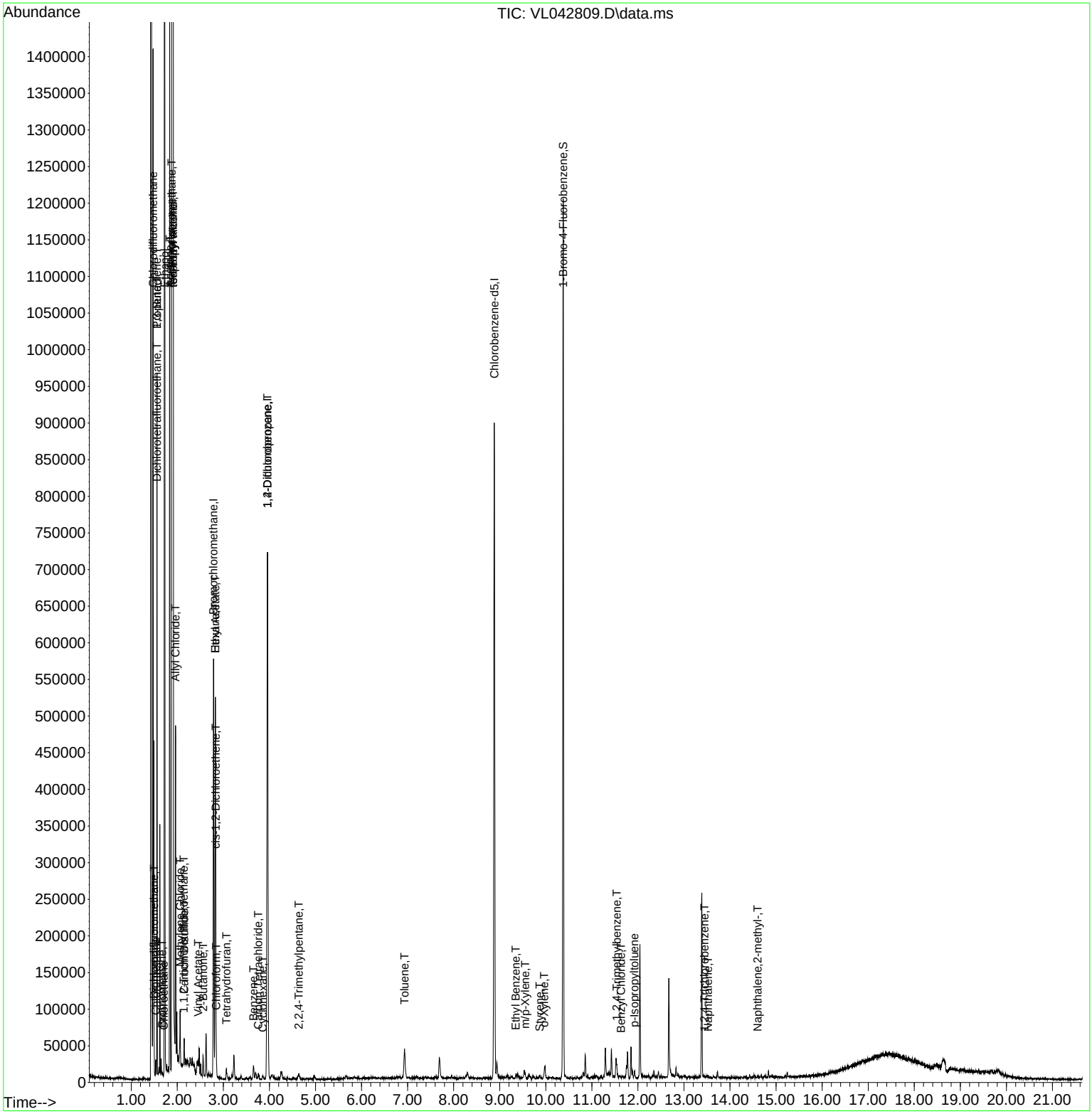
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	150888	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	424703	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	362958	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	287056	9.987	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9872	0.495	ppbv		94
3) Chlorodifluoromethane	1.476	51	453101	17.435	ppbv		99
4) Chloromethane	1.531	50	4415	0.547	ppbv		89
6) Bromomethane	1.674	94	103	0.033	ppbv	#	1
7) Chloroethane	1.706	64	133	0.043	ppbv	#	72
8) Dichlorotetrafluoroethane	1.557	85	465	0.028	ppbv		100
9) Propene	1.560	41	101438	10.740	ppbv		99
11) Trichlorofluoromethane	1.877	101	5244	0.255	ppbv		88
12) 1,1,2-Trichlorotrifluo...	2.140	101	1198	0.077	ppbv		97
13) Ethanol	1.725	45	1447704	2103.892	ppbv		95
15) Acetone	1.835	43	652938	31.338	ppbv		100
16) 1,3-Butadiene	1.560	39	49276	5.545	ppbv	#	17
17) tert-Butyl alcohol	1.907	59	1145583	60.964	ppbv		95
19) Isopropyl Alcohol	1.907	45	7110661	642.214	ppbv	#	41
20) Methylene Chloride	2.062	84	8919	1.358	ppbv		90
21) Allyl Chloride	1.962	41	64409	5.016	ppbv	#	28
23) Vinyl Acetate	2.454	43	7301	0.289	ppbv	#	75
25) Ethyl Acetate	2.826	43	97192	2.107	ppbv	#	88
26) Hexane	2.826	57	117368	5.801	ppbv	#	46
27) Carbon Disulfide	2.149	76	18073	1.043	ppbv	#	66
29) Chloroform	2.848	83	5518	0.177	ppbv		100
30) Cyclohexane	3.855	84	558	0.033	ppbv	#	7
31) cis-1,2-Dichloroethene	2.835	61	1952	0.094	ppbv	#	23
34) 2-Butanone	2.560	43	17312	0.575	ppbv		97
35) Carbon Tetrachloride	3.758	117	1649	0.052	ppbv	#	88
36) Benzene	3.654	78	9665	0.240	ppbv		96
39) 1,2-Dichloropropane	3.959	63	107089	7.208	ppbv	#	21
41) Tetrahydrofuran	3.068	42	3393	0.222	ppbv	#	68
44) 2,2,4-Trimethylpentane	4.638	57	2141	0.033	ppbv	#	41
53) Toluene	6.933	91	25972	0.601	ppbv		97
58) Ethyl Benzene	9.348	91	1182	0.021	ppbv		94
59) m/p-Xylene	9.551	91	1197	0.026	ppbv	#	30
60) o-Xylene	9.966	91	2253	0.049	ppbv		69
61) Styrene	9.869	104	595	0.031	ppbv	#	1
66) Benzyl Chloride	11.633	91	122	0.025	ppbv	#	79
69) p-Isopropyltoluene	11.921	119	3143	0.045	ppbv	#	76
74) 1,2,4-Trimethylbenzene	11.539	105	2656	0.054	ppbv	#	68
79) Naphthalene	13.520	128	848	0.450	ppbv	#	77
80) Naphthalene,2-methyl-	14.601	142	144	1.133	ppbv		90
81) 1,2,4-Trichlorobenzene	13.445	180	24	0.436	ppbv	#	1

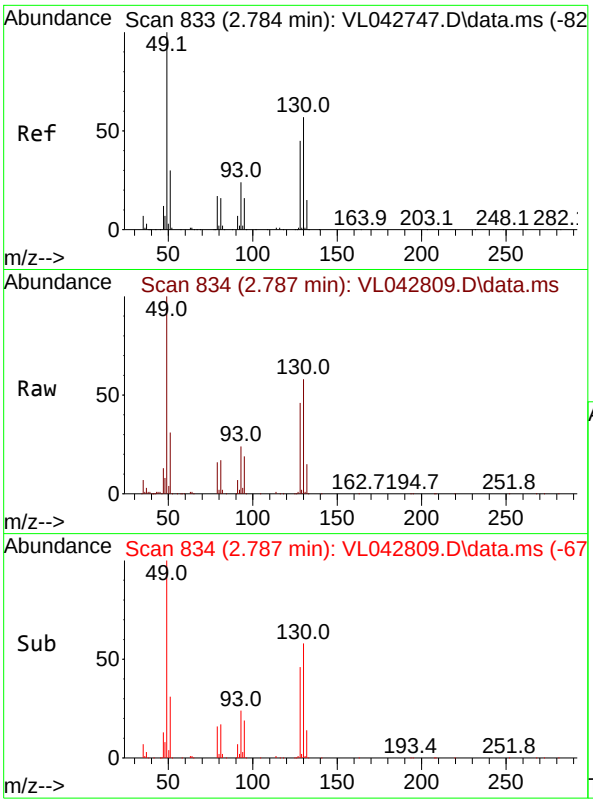
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042809.D
Acq On : 04 Aug 2025 17:26
Operator : SY/MD
Sample : Q2750-10
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Quant Time: Aug 05 01:09:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



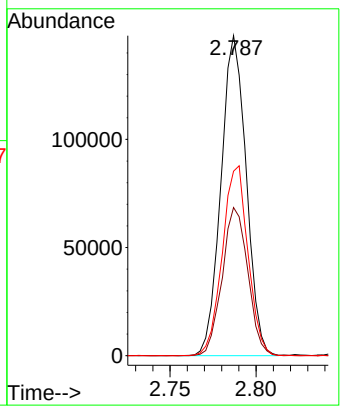


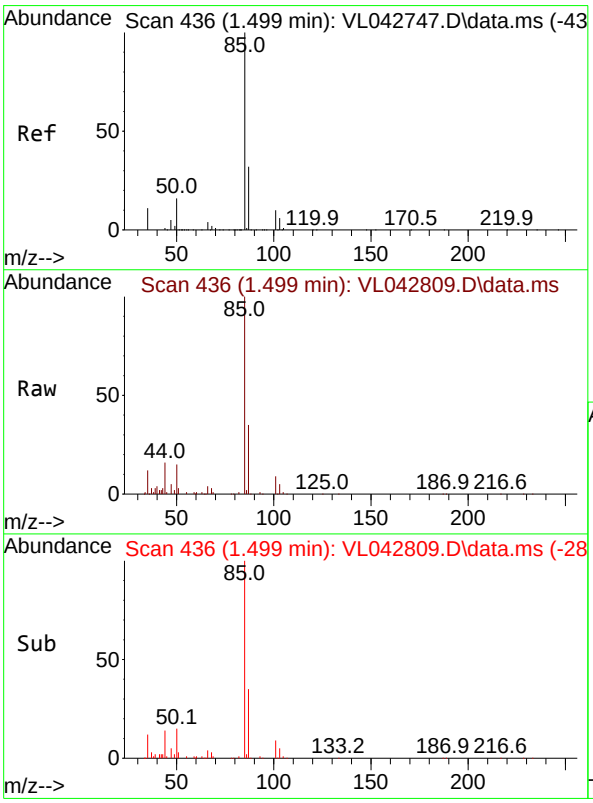
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 49 Resp: 150888

Ion	Ratio	Lower	Upper
49	100		
128	47.1	23.6	71.0
130	60.4	30.3	90.8

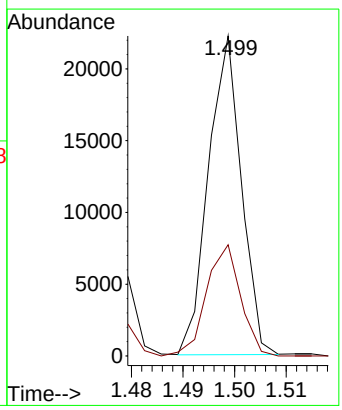


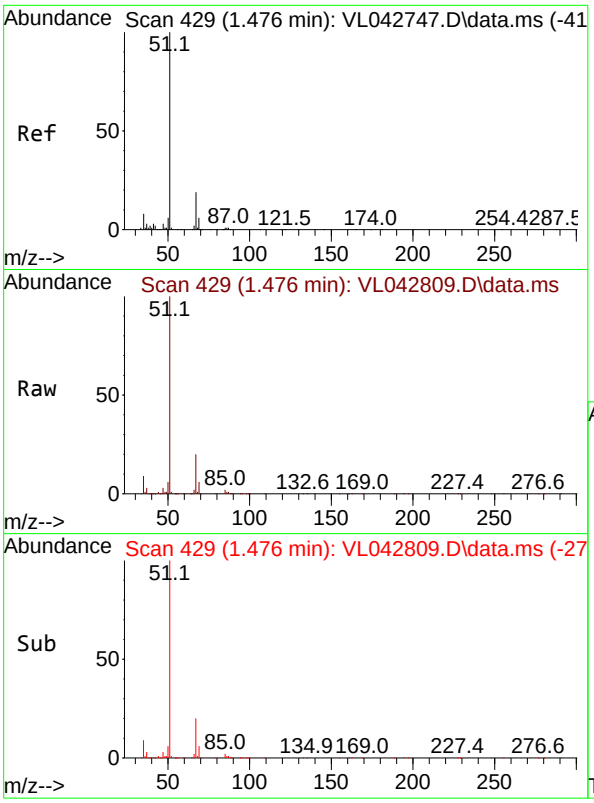


#2
Dichlorodifluoromethane
Concen: 0.495 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 85 Resp: 9872

Ion	Ratio	Lower	Upper
85	100		
87	34.9	25.4	38.2



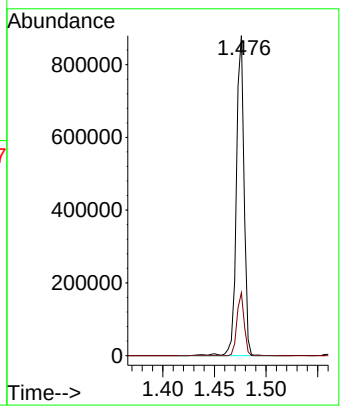


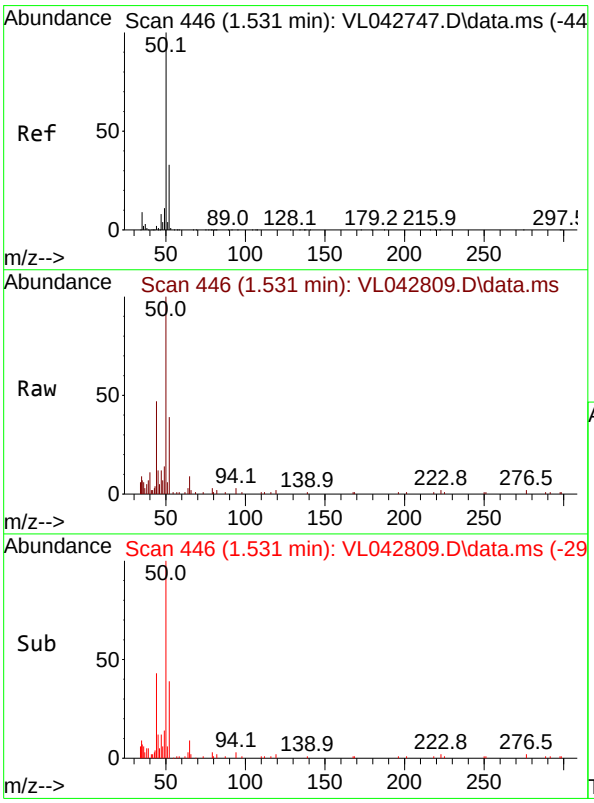
#3
Chlorodifluoromethane
Concen: 17.435 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 51 Resp: 453101

Ion	Ratio	Lower	Upper
51	100		
67	18.4	15.0	22.6

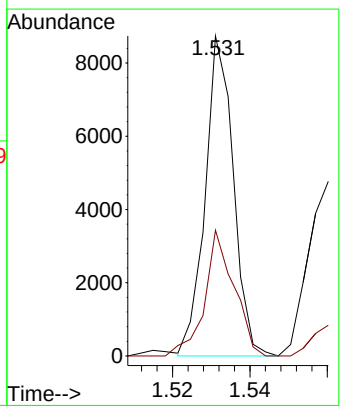


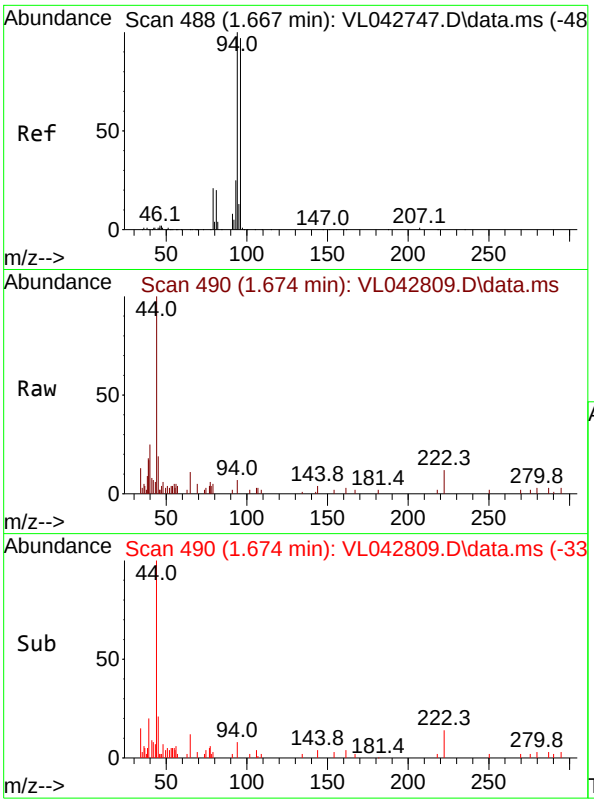


#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 50 Resp: 4415

Ion	Ratio	Lower	Upper
50	100		
52	39.6	26.6	40.0



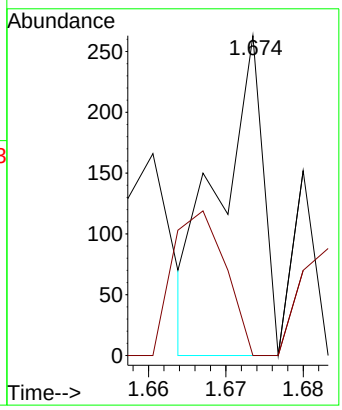


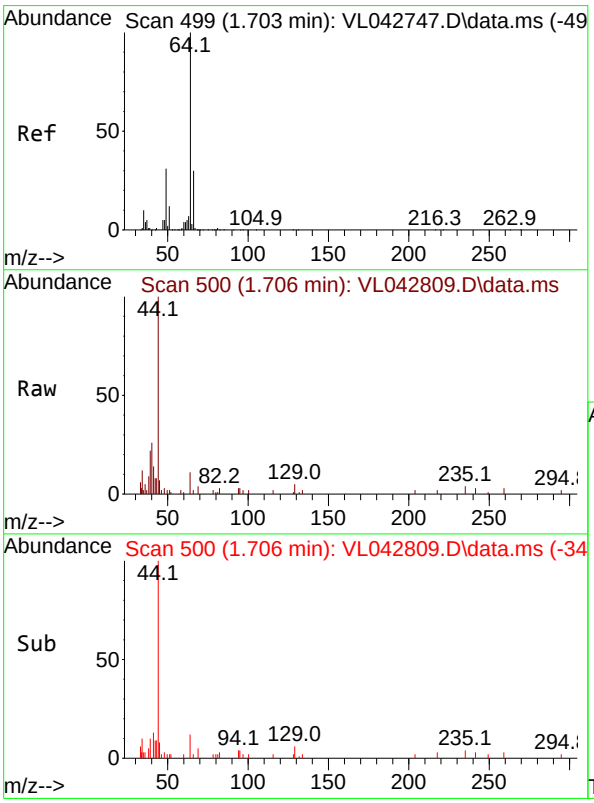
#6
Bromomethane
Concen: 0.033 ppbv
RT: 1.674 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 94 Resp: 103

Ion	Ratio	Lower	Upper
94	100		
96	0.0	77.6	116.4#

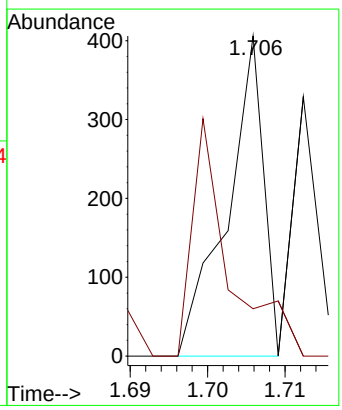


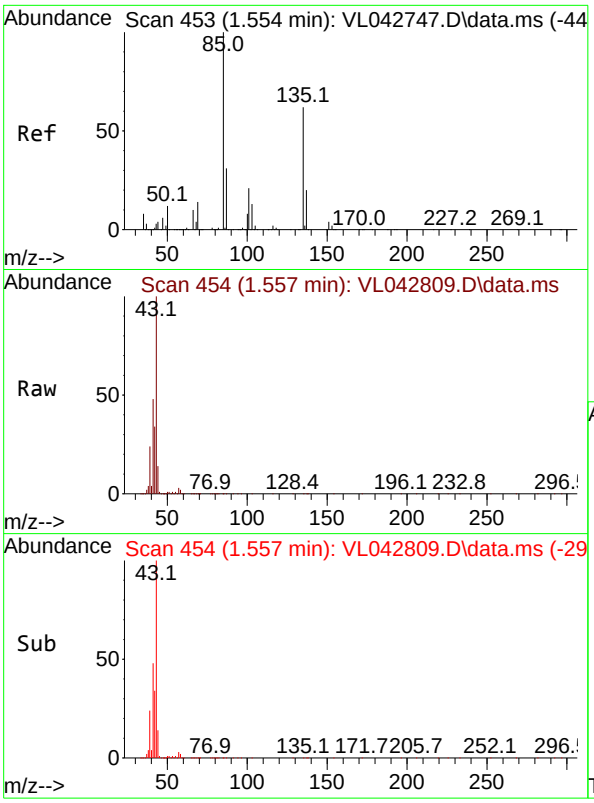


#7
Chloroethane
Concen: 0.043 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 64 Resp: 133

Ion	Ratio	Lower	Upper
64	100		
66	14.8	24.1	36.1#



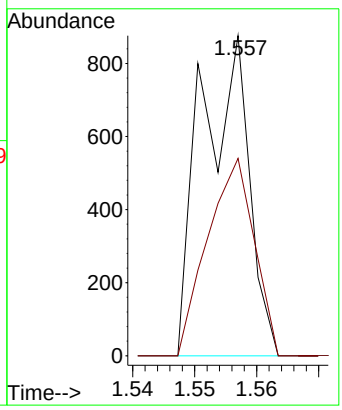


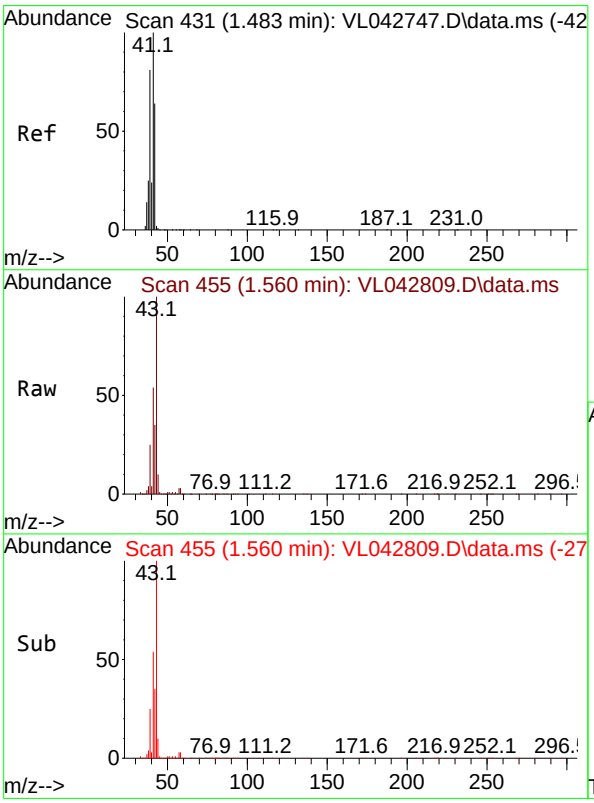
#8
Dichlorotetrafluoroethane
Concen: 0.028 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 85 Resp: 465

Ion	Ratio	Lower	Upper
85	100		
135	63.2	50.6	76.0

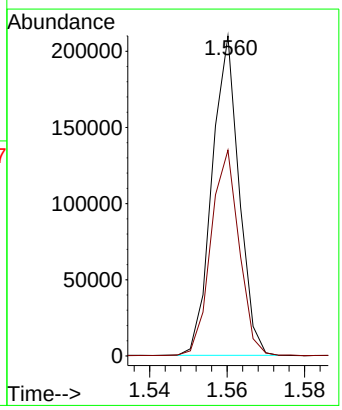


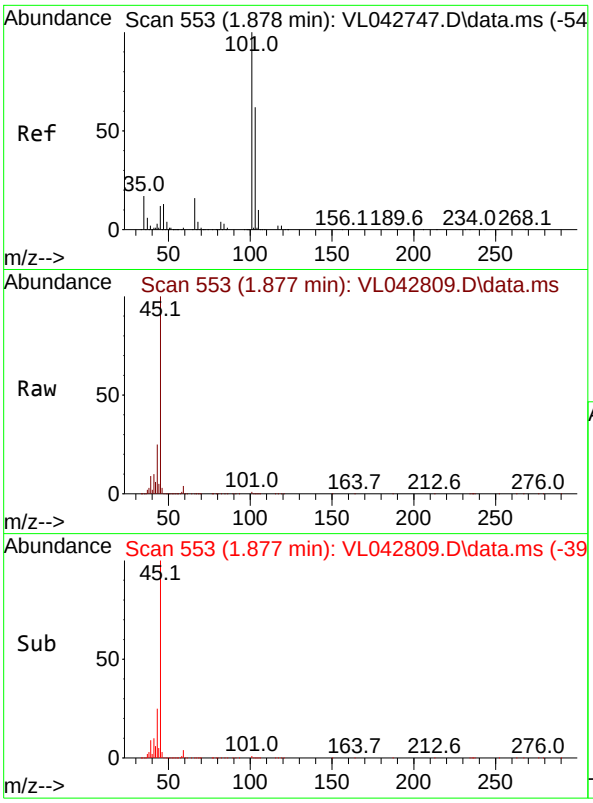


#9
Propene
Concen: 10.740 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.078 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 41 Resp: 101438

Ion	Ratio	Lower	Upper
41	100		
42	67.5	53.2	79.8



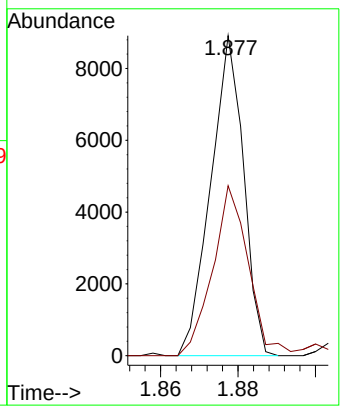


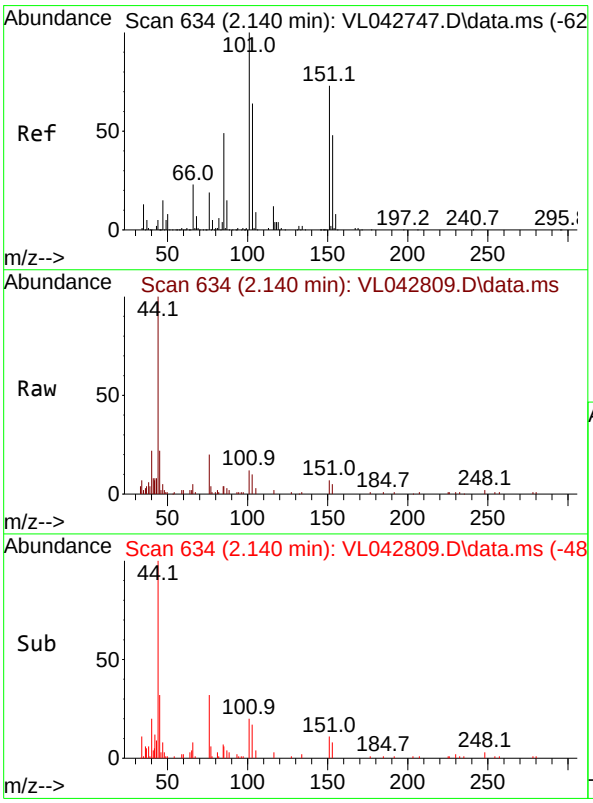
#11
Trichlorofluoromethane
Concen: 0.255 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion:101 Resp: 5244

Ion	Ratio	Lower	Upper
101	100		
103	53.1	49.6	74.4

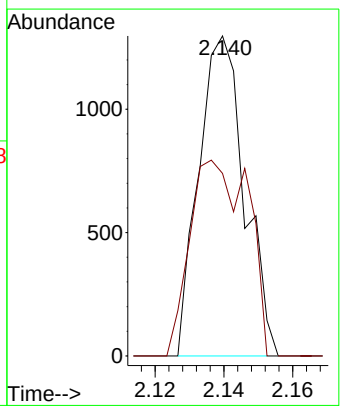


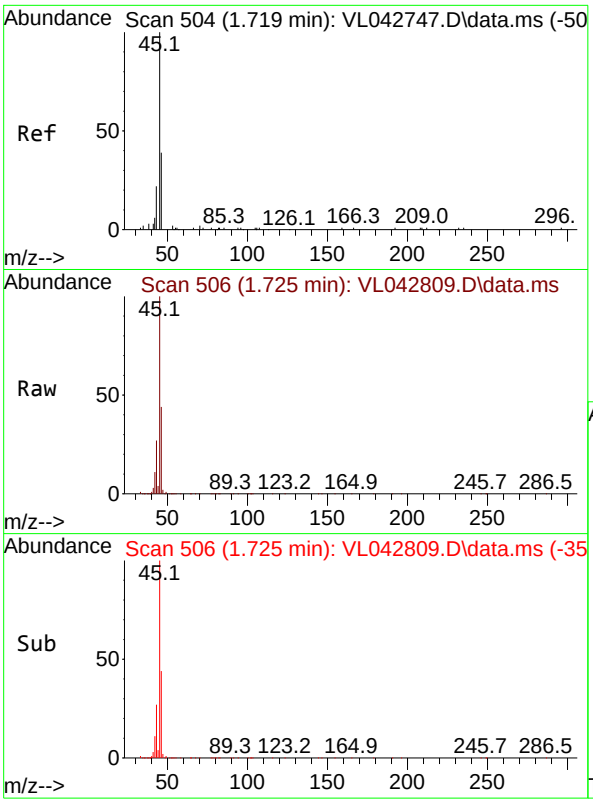


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.077 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion:101 Resp: 1198

Ion	Ratio	Lower	Upper
101	100		
151	78.2	60.5	90.7



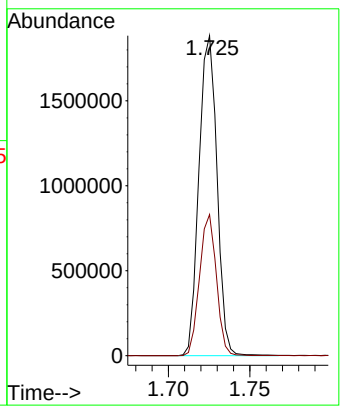


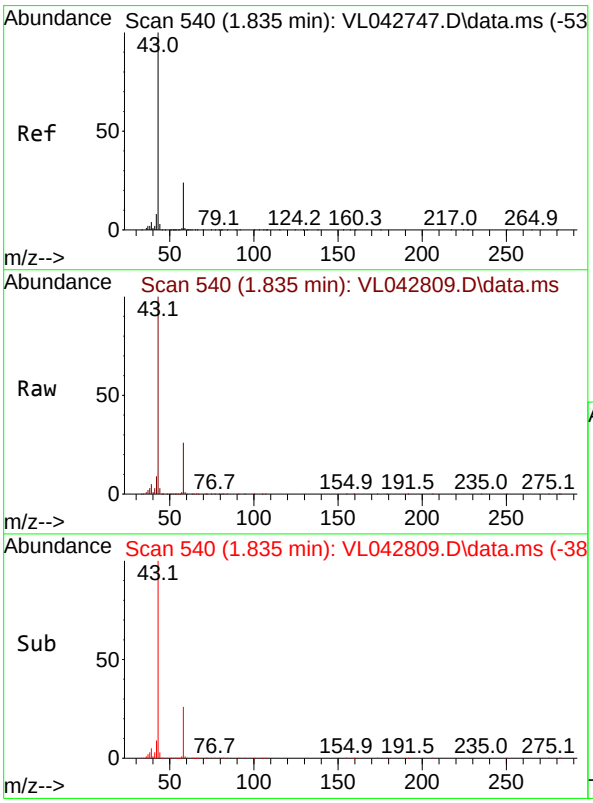
#13
Ethanol
Concen: 2103.892 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 45 Resp: 1447704

Ion	Ratio	Lower	Upper
45	100		
46	41.3	17.8	71.4

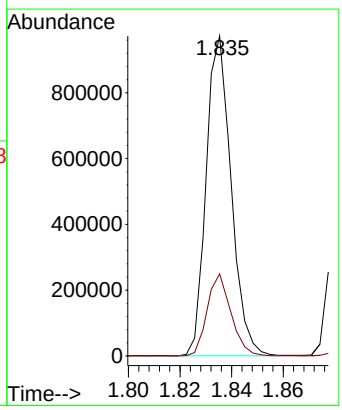


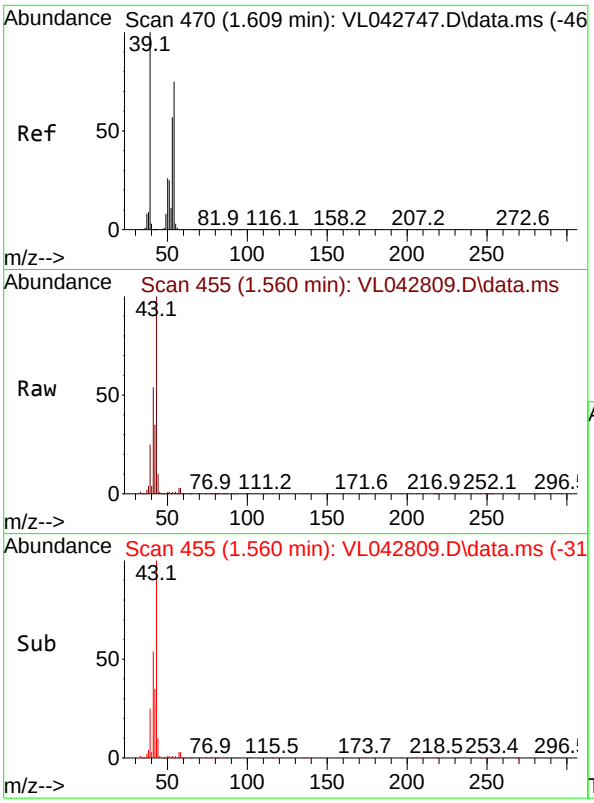


#15
Acetone
Concen: 31.338 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 43 Resp: 652938

Ion	Ratio	Lower	Upper
43	100		
58	24.6	19.8	29.8



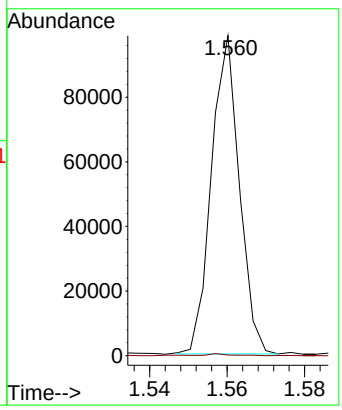


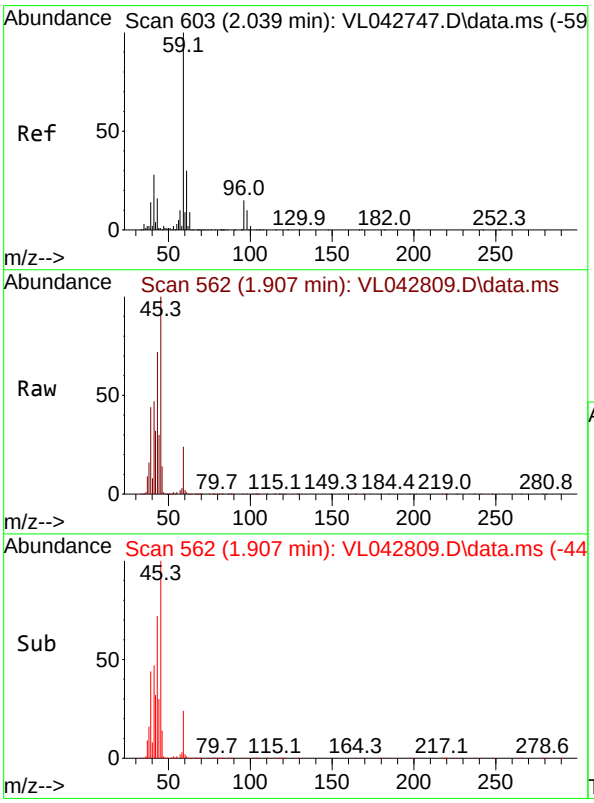
#16
1,3-Butadiene
Concen: 5.545 ppbv
RT: 1.560 min Scan# 4
Delta R.T. -0.049 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 39 Resp: 49276

Ion	Ratio	Lower	Upper
39	100		
54	0.7	54.5	81.7#

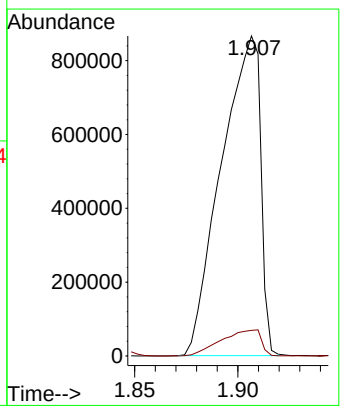


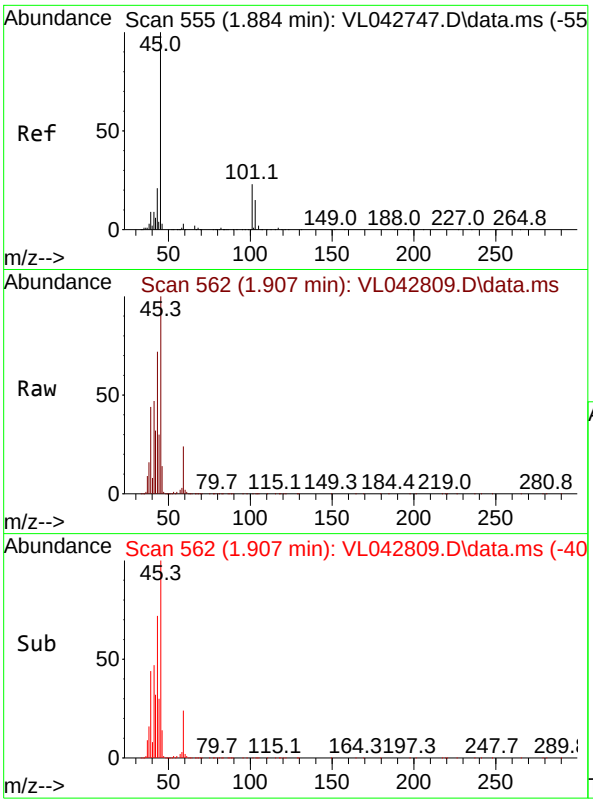


#17
tert-Butyl alcohol
Concen: 60.964 ppbv
RT: 1.907 min Scan# 562
Delta R.T. -0.133 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 59 Resp: 1145583

Ion	Ratio	Lower	Upper
59	100		
57	8.3	8.3	12.5



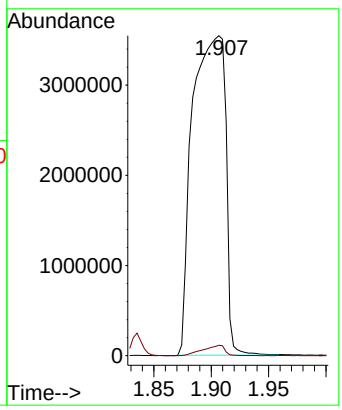


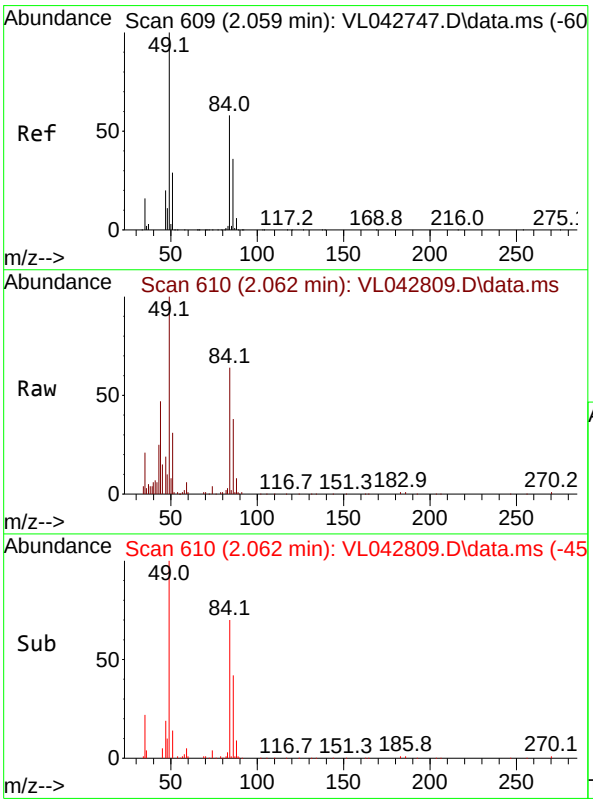
#19
Isopropyl Alcohol
Concen: 642.214 ppbv
RT: 1.907 min Scan# 5
Delta R.T. 0.023 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 45 Resp: 7110661

Ion	Ratio	Lower	Upper
45	100		
58	2.2	30.0	45.0#

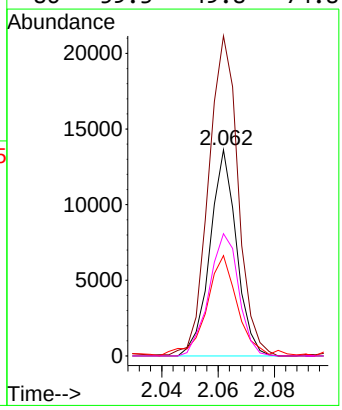


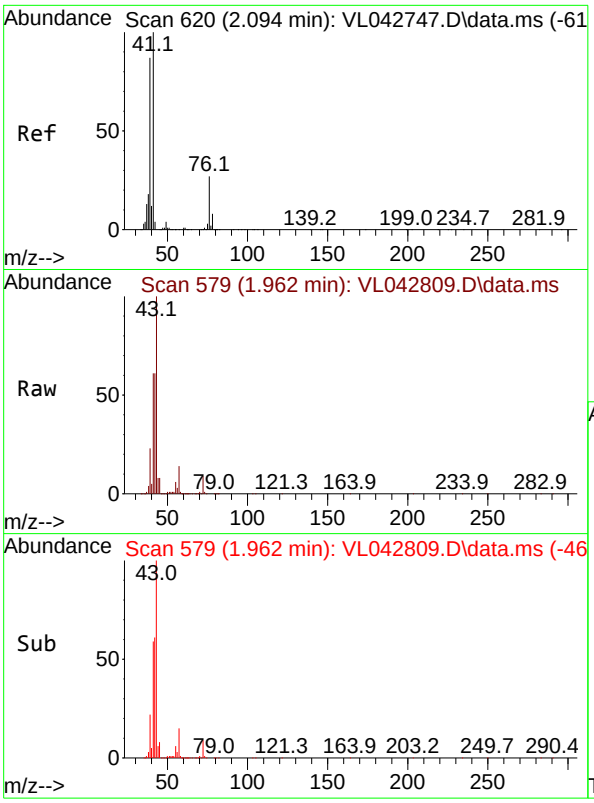


#20
Methylene Chloride
Concen: 1.358 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 84 Resp: 8919

Ion	Ratio	Lower	Upper
84	100		
49	155.3	138.6	208.0
51	46.0	40.6	61.0
86	59.3	49.8	74.8



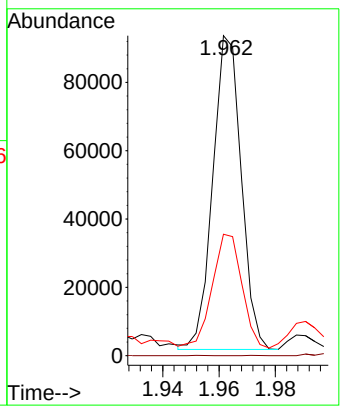


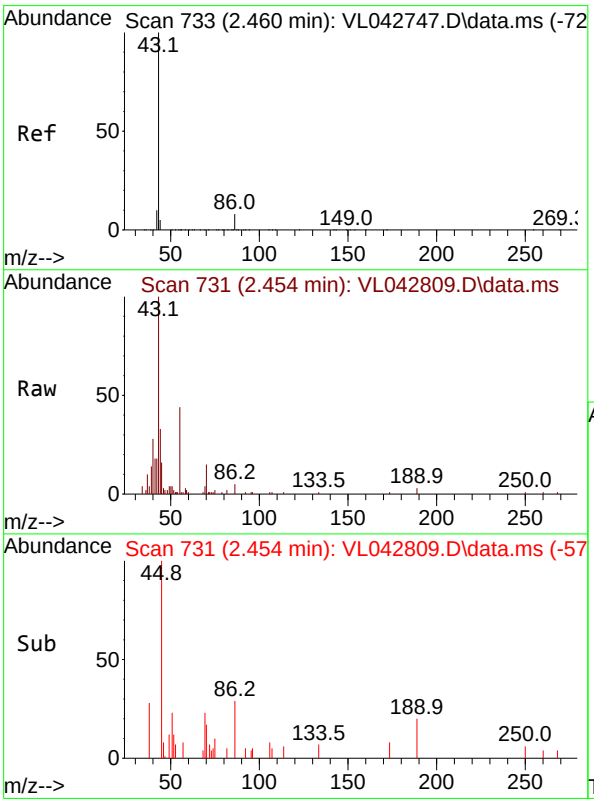
#21
Allyl Chloride
Concen: 5.016 ppbv
RT: 1.962 min Scan# 5
Delta R.T. -0.133 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 41 Resp: 64409

Ion	Ratio	Lower	Upper
41	100		
76	28.2	21.1	31.7
39	0.0	68.3	102.5#

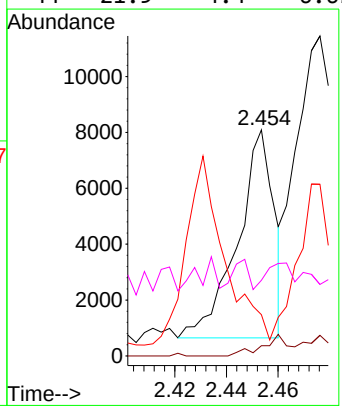


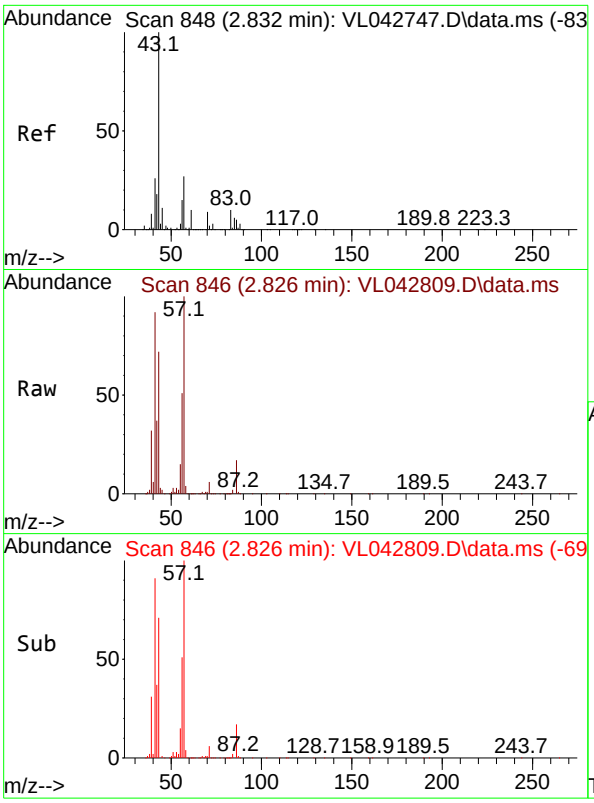


#23
Vinyl Acetate
Concen: 0.289 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.007 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 43 Resp: 7301

Ion	Ratio	Lower	Upper
43	100		
86	3.6	6.1	9.1#
42	1.3	7.8	11.8#
44	21.9	4.4	6.6#



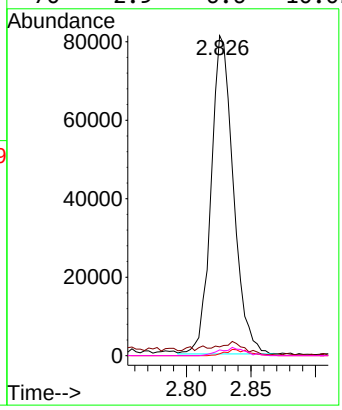


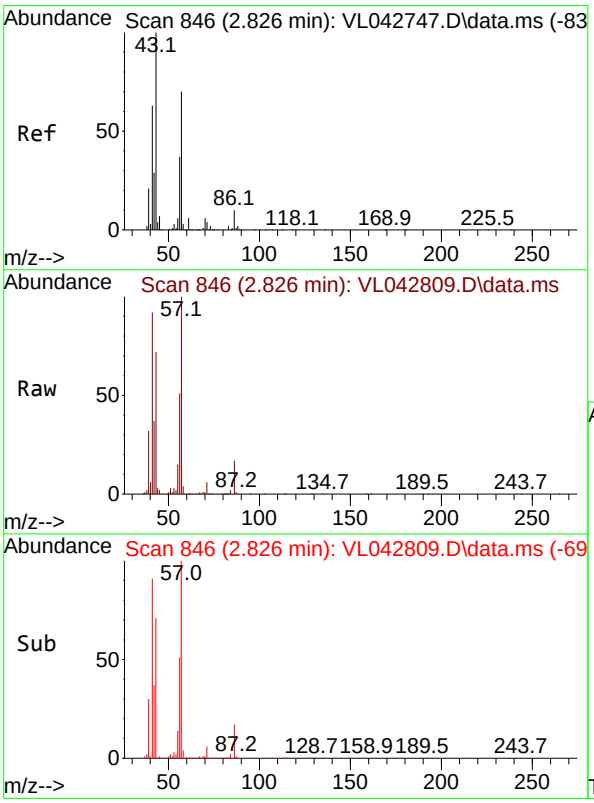
#25
Ethyl Acetate
Concen: 2.107 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 43 Resp: 97192

Ion	Ratio	Lower	Upper
43	100		
45	8.4	7.8	11.6
61	2.1	6.7	10.1#
70	2.9	6.6	10.0#

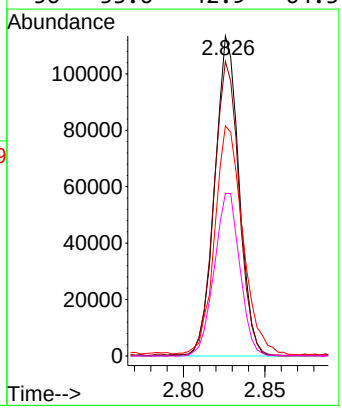


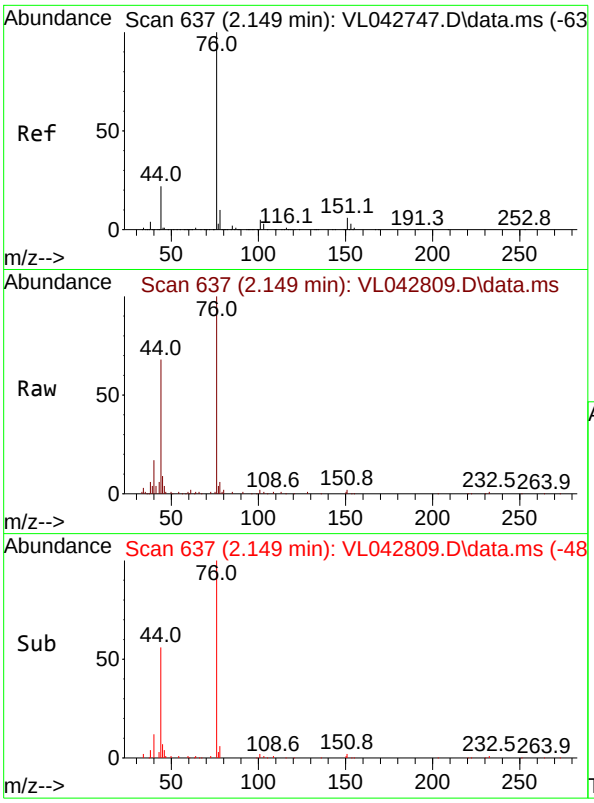


#26
Hexane
Concen: 5.801 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 57 Resp: 117368

Ion	Ratio	Lower	Upper
57	100		
41	96.2	75.4	113.2
43	84.5	185.0	277.6#
56	53.6	42.9	64.3



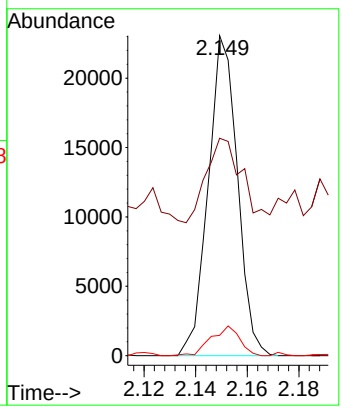


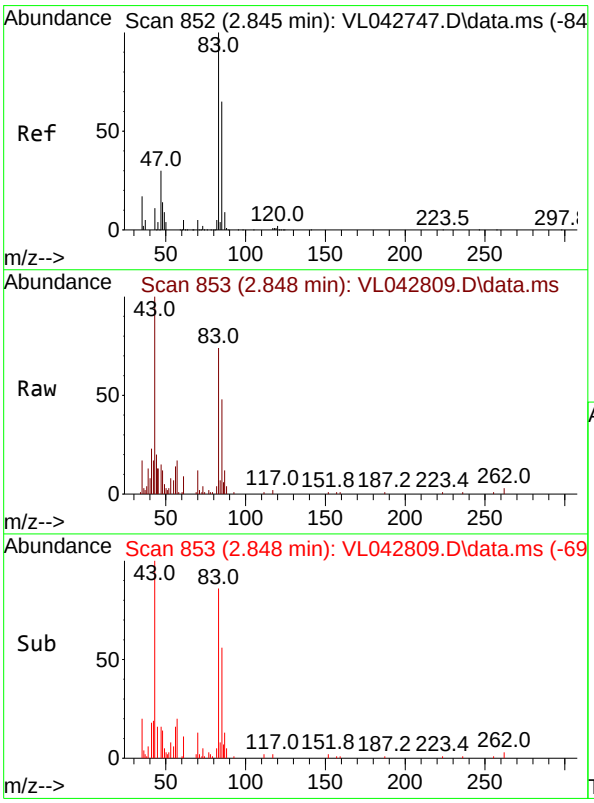
#27
Carbon Disulfide
Concen: 1.043 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 76 Resp: 18073

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	10.5	9.9	14.9

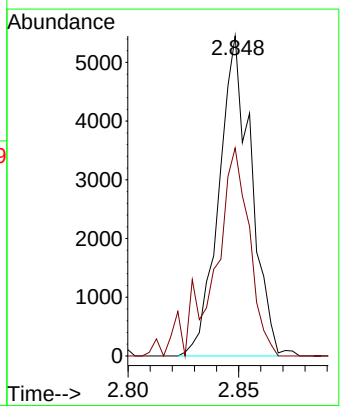


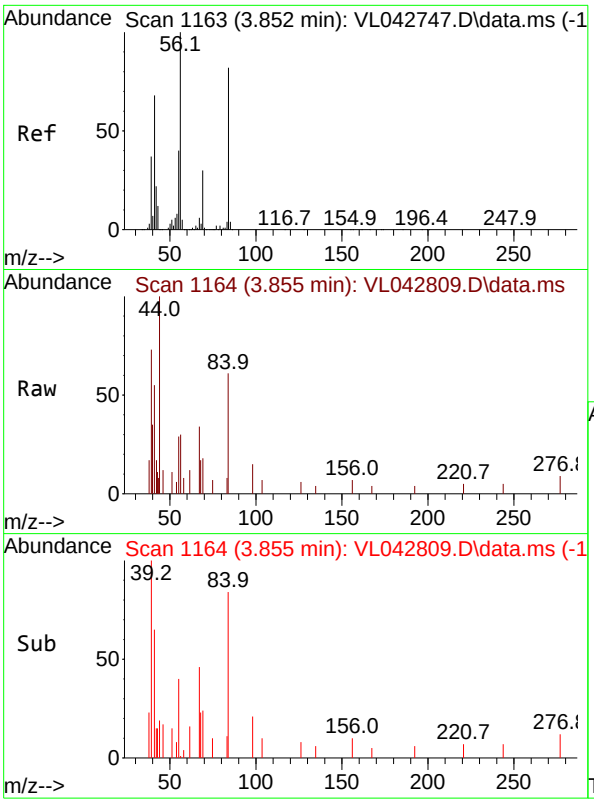


#29
Chloroform
Concen: 0.177 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 83 Resp: 5518

Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.2	78.2



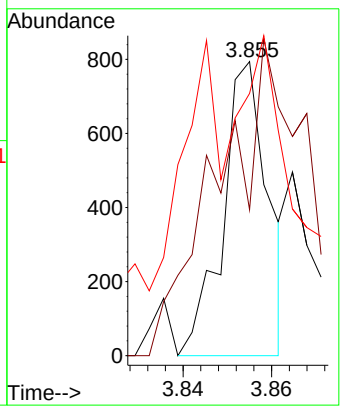


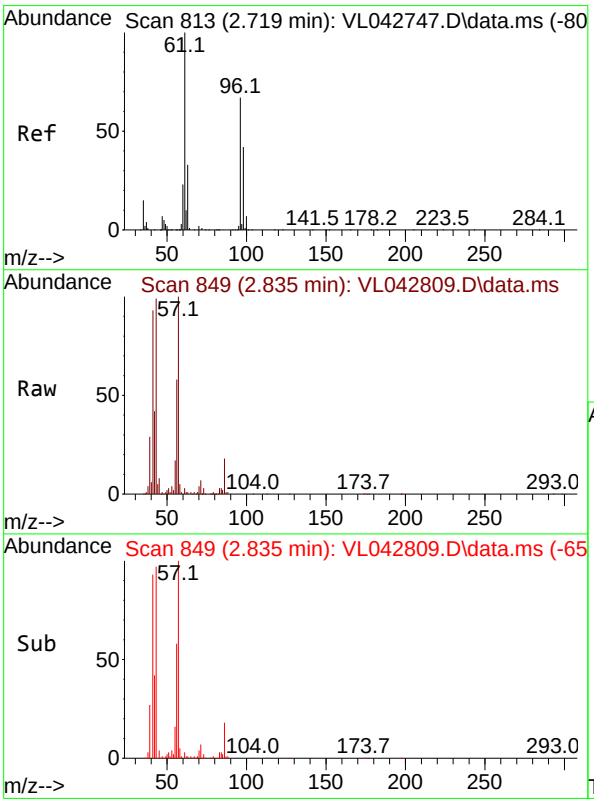
#30
Cyclohexane
Concen: 0.033 ppbv
RT: 3.855 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 84 Resp: 558

Ion	Ratio	Lower	Upper
84	100		
56	212.9	97.5	146.3#
41	184.1	67.2	100.8#

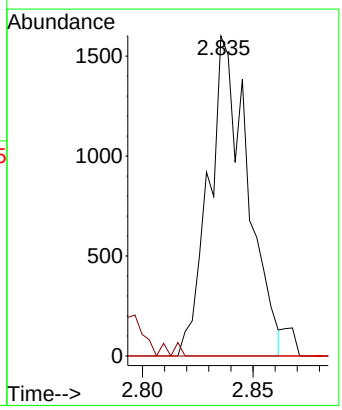


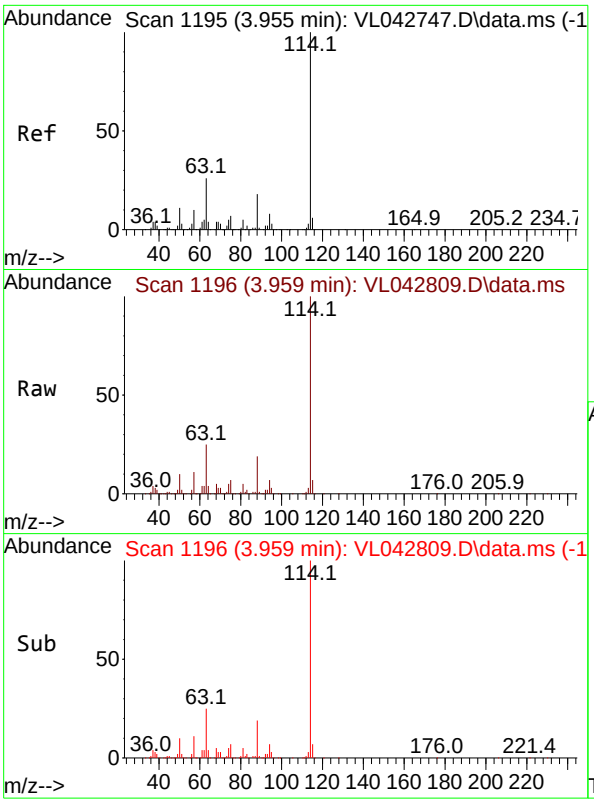


#31
cis-1,2-Dichloroethene
Concen: 0.094 ppbv
RT: 2.835 min Scan# 849
Delta R.T. 0.116 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 61 Resp: 1952

Ion	Ratio	Lower	Upper
61	100		
96	0.0	53.5	80.3#
98	0.0	33.6	50.4#



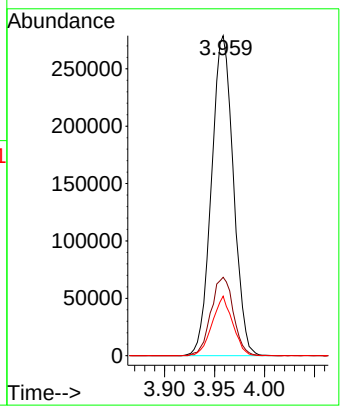


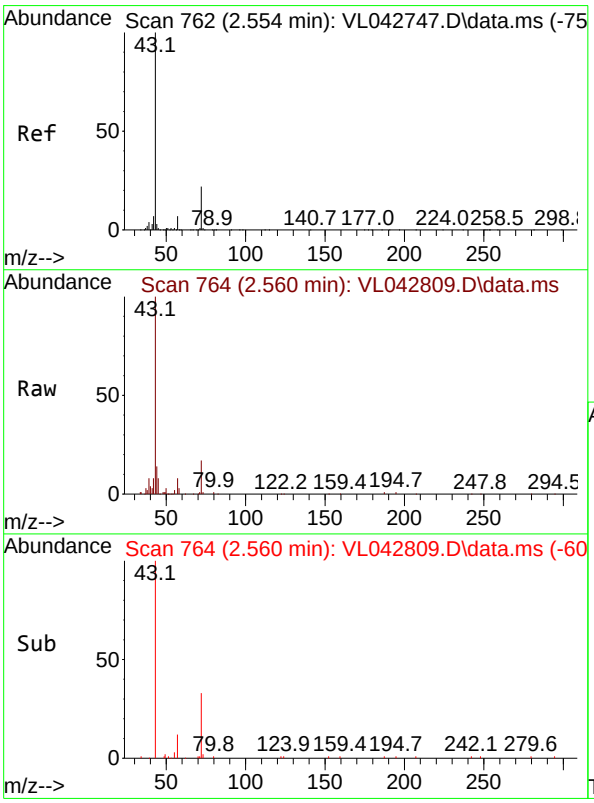
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion:114 Resp: 424703

Ion	Ratio	Lower	Upper
114	100		
63	25.2	20.5	30.7
88	17.4	14.0	21.0

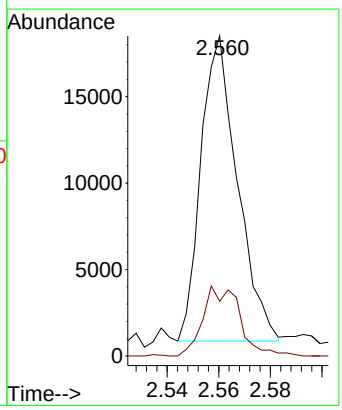


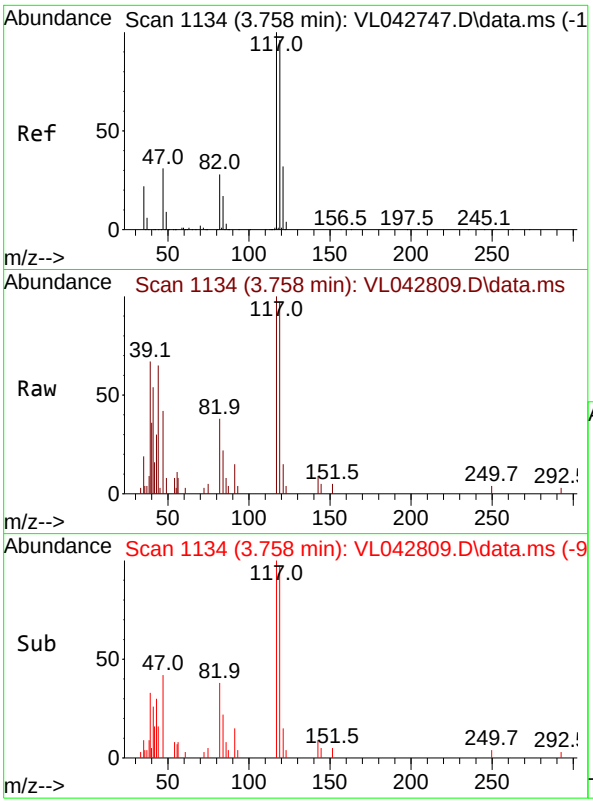


#34
2-Butanone
Concen: 0.575 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 43 Resp: 17312

Ion	Ratio	Lower	Upper
43	100		
72	23.2	17.4	26.0



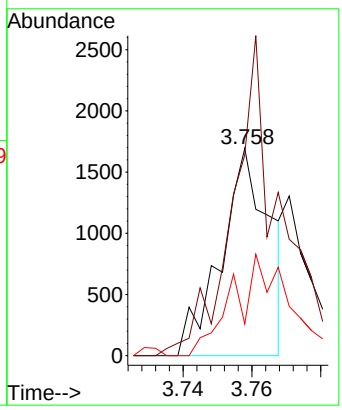


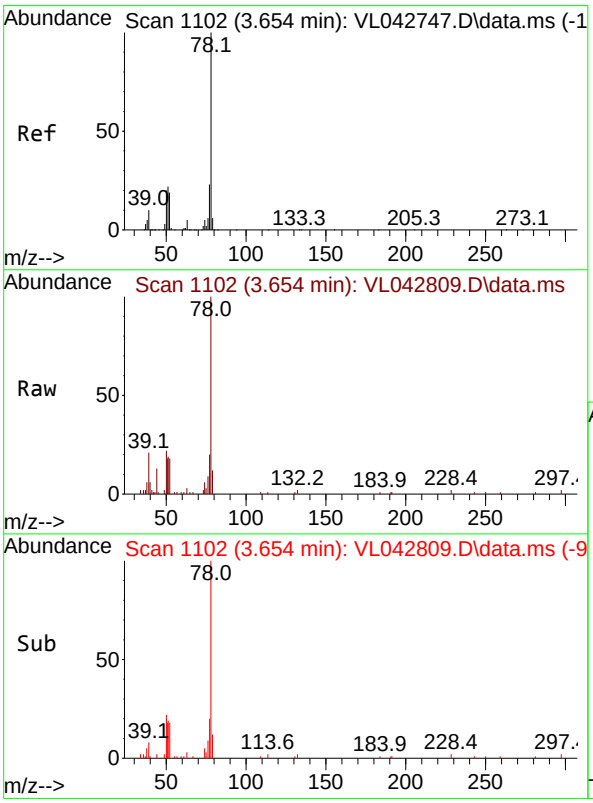
#35
Carbon Tetrachloride
Concen: 0.052 ppbv
RT: 3.758 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion:117 Resp: 1649

Ion	Ratio	Lower	Upper
117	100		
119	90.8	77.1	115.7
121	15.3	25.5	38.3#

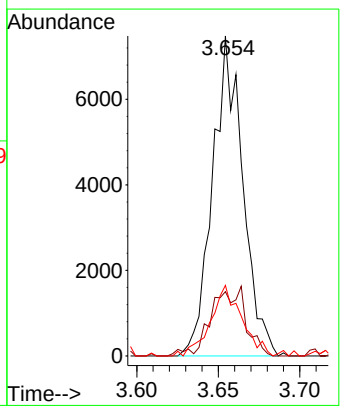


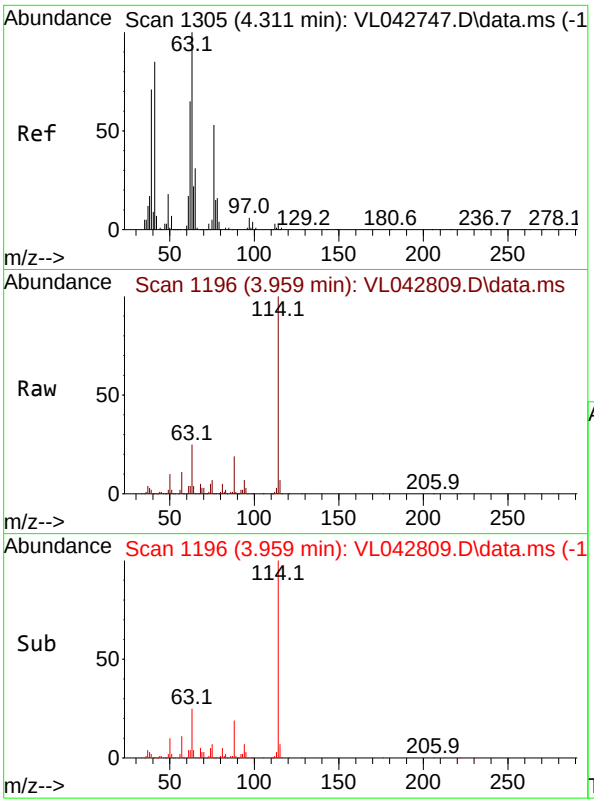


#36
Benzene
Concen: 0.240 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 78 Resp: 9665

Ion	Ratio	Lower	Upper
78	100		
77	20.1	18.5	27.7
50	21.3	16.2	24.2



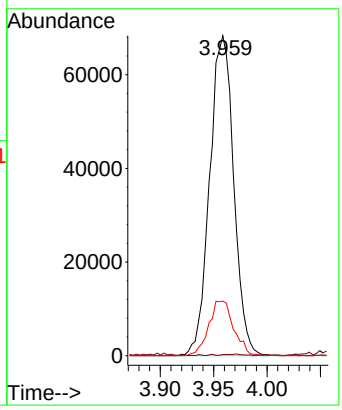


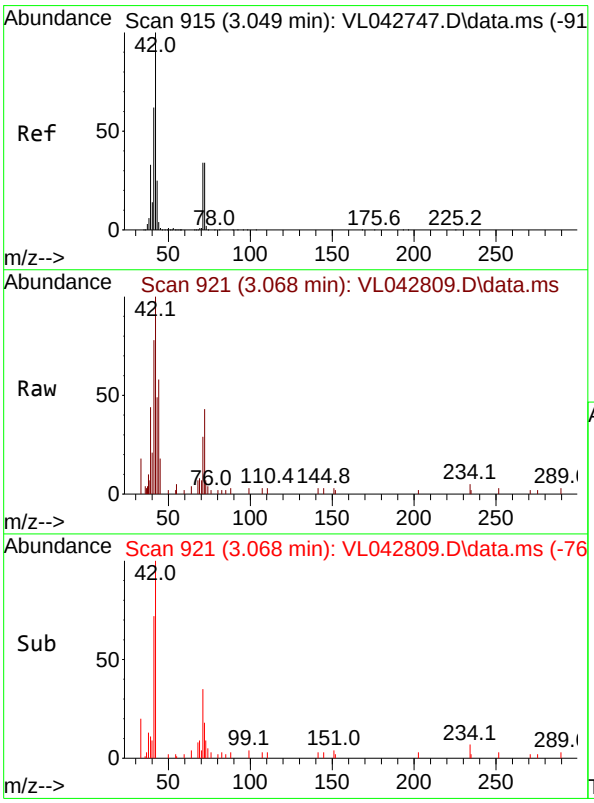
#39
1,2-Dichloropropane
Concen: 7.208 ppbv
RT: 3.959 min Scan# 11
Delta R.T. -0.353 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 63 Resp: 107089

Ion	Ratio	Lower	Upper
63	100		
41	0.1	68.2	102.4#
62	17.0	52.0	78.0#

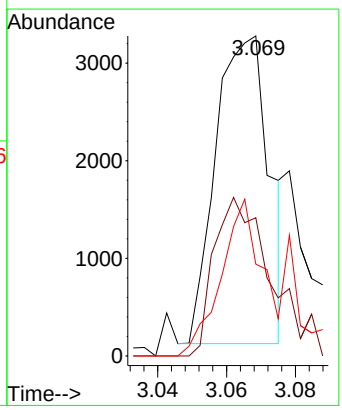


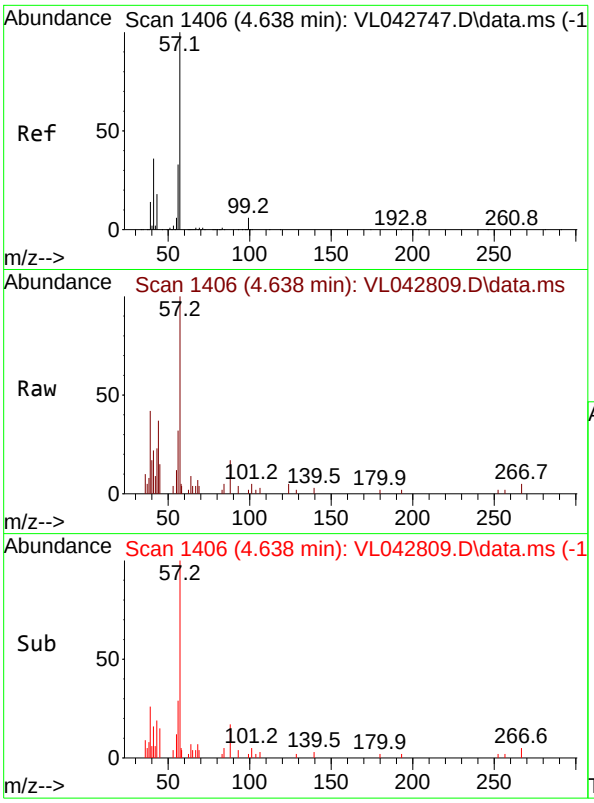


#41
Tetrahydrofuran
Concen: 0.222 ppbv
RT: 3.068 min Scan# 921
Delta R.T. 0.019 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 42 Resp: 3393

Ion	Ratio	Lower	Upper
42	100		
72	56.2	30.9	46.3#
71	56.8	28.6	43.0#



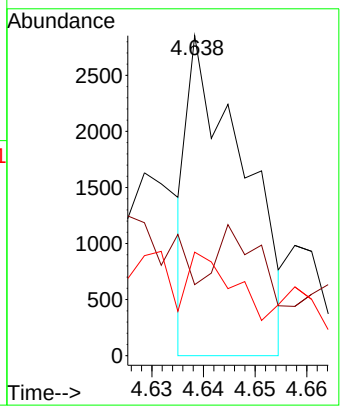


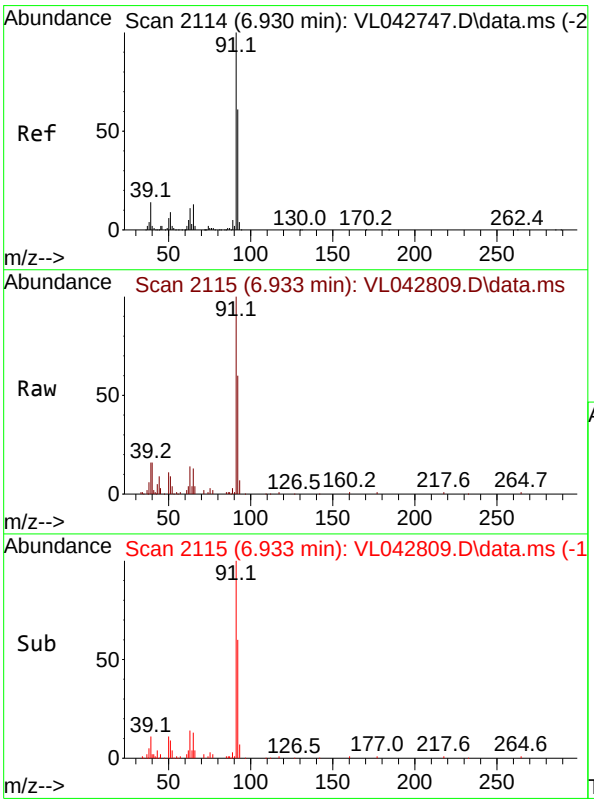
#44
2,2,4-Trimethylpentane
Concen: 0.033 ppbv
RT: 4.638 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 57 Resp: 2141

Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.3	42.5#
56	0.0	25.8	38.6#

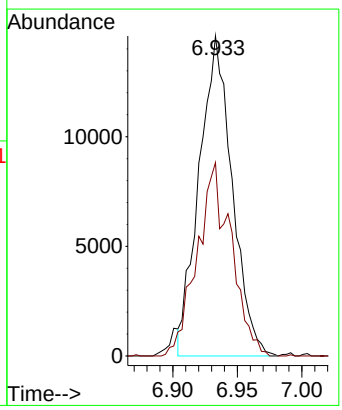


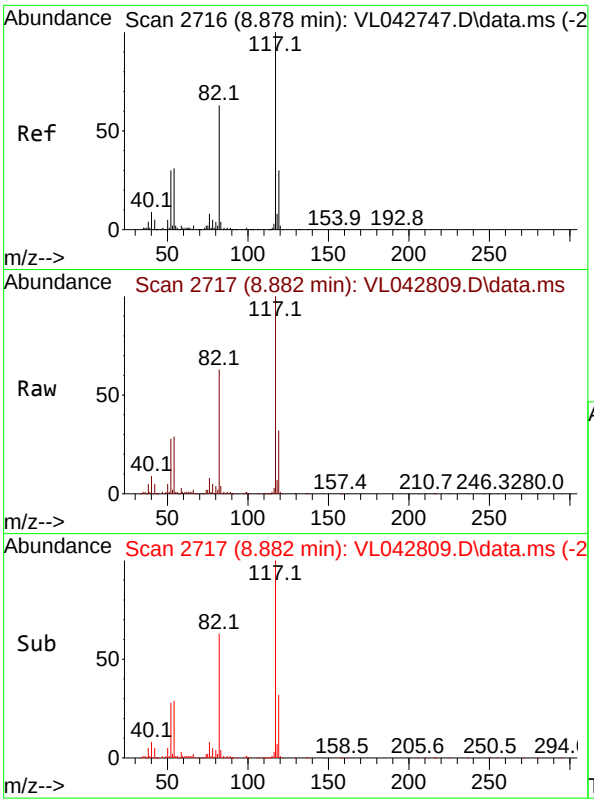


#53
Toluene
Concen: 0.601 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 91 Resp: 25972

Ion	Ratio	Lower	Upper
91	100		
92	62.4	48.0	72.0



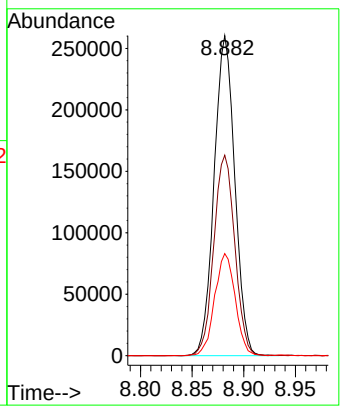


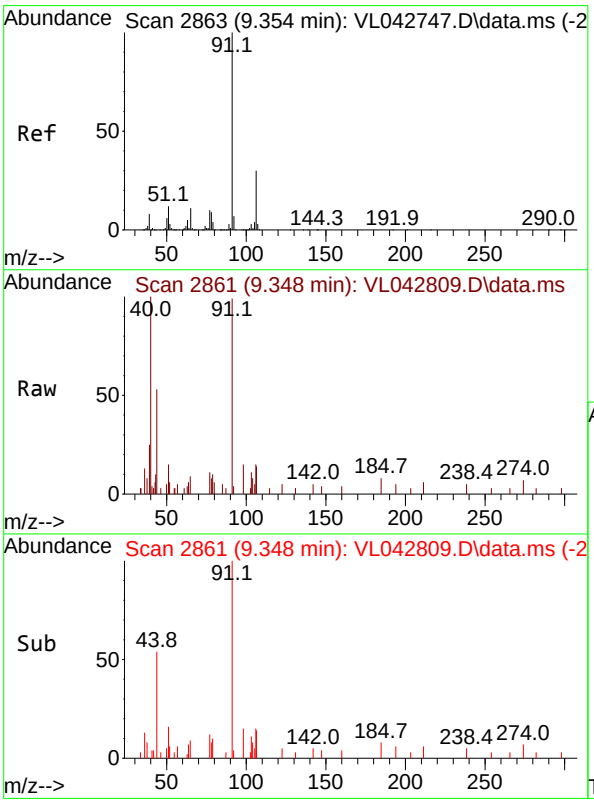
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion:117 Resp: 362958

Ion	Ratio	Lower	Upper
117	100		
82	63.7	53.3	79.9
119	32.0	25.8	38.6

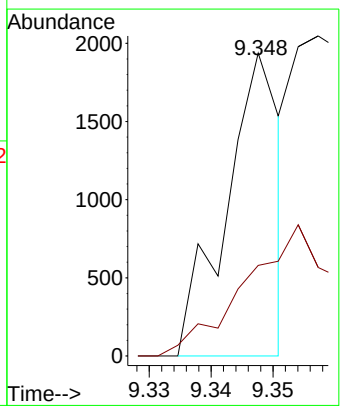


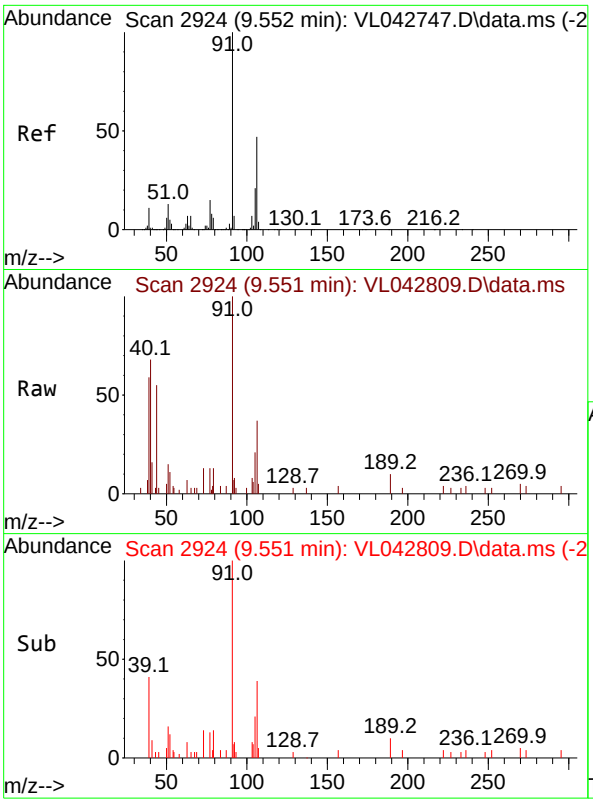


#58
Ethyl Benzene
Concen: 0.021 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 91 Resp: 1182

Ion	Ratio	Lower	Upper
91	100		
106	26.4	23.8	35.6



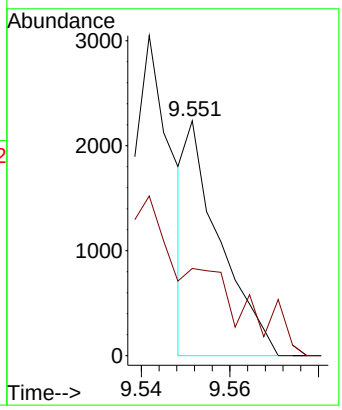


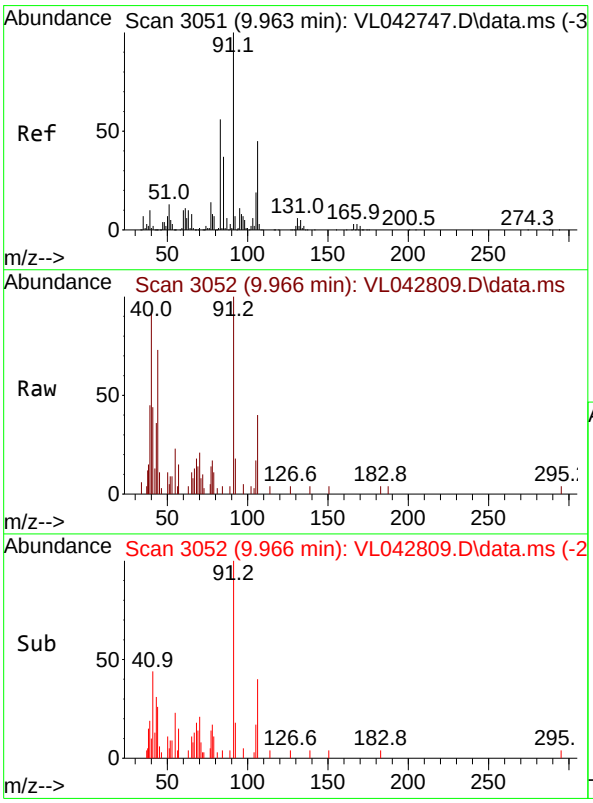
#59
m/p-Xylene
Concen: 0.026 ppbv
RT: 9.551 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 91 Resp: 1197

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

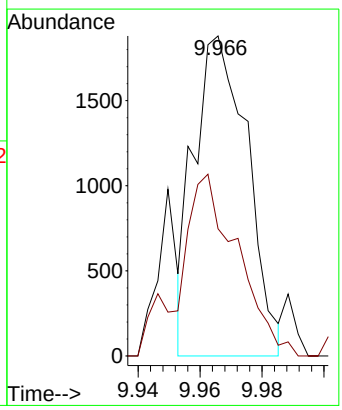


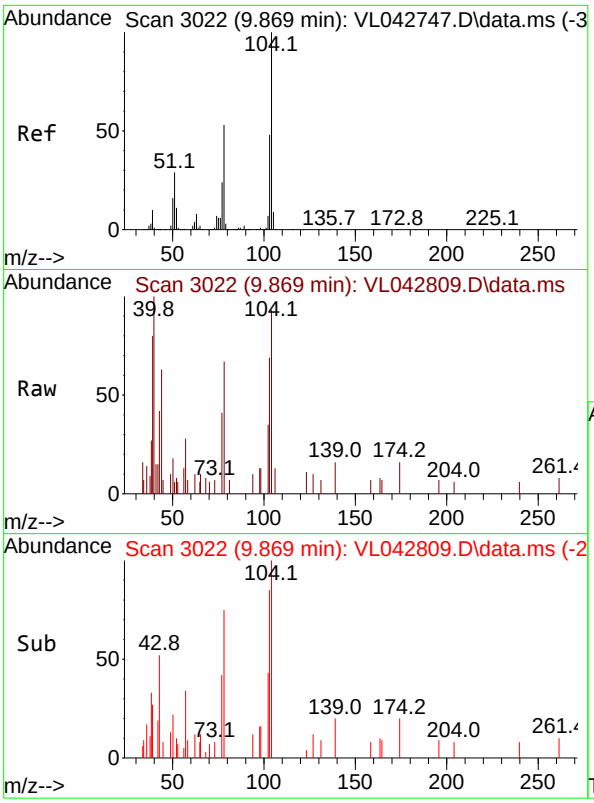


#60
o-Xylene
Concen: 0.049 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 91 Resp: 2253

Ion	Ratio	Lower	Upper
91	100		
106	64.3	22.0	66.0



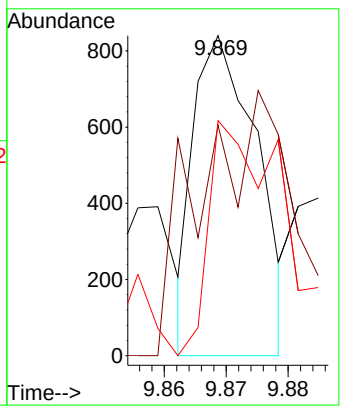


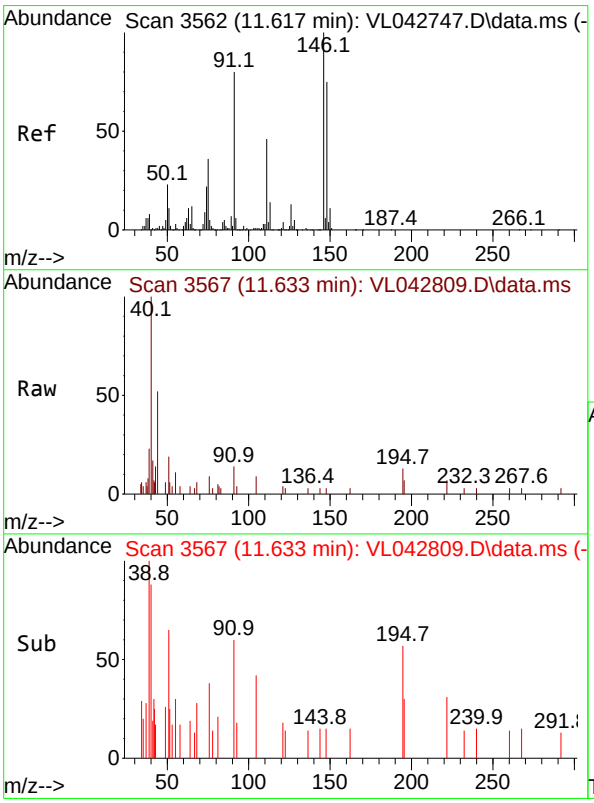
#61
Styrene
Concen: 0.031 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion:104 Resp: 595

Ion	Ratio	Lower	Upper
104	100		
78	136.5	41.5	62.3#
103	99.5	37.5	56.3#

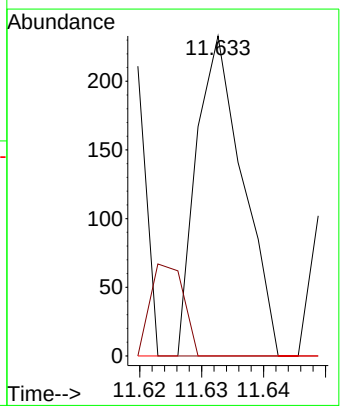


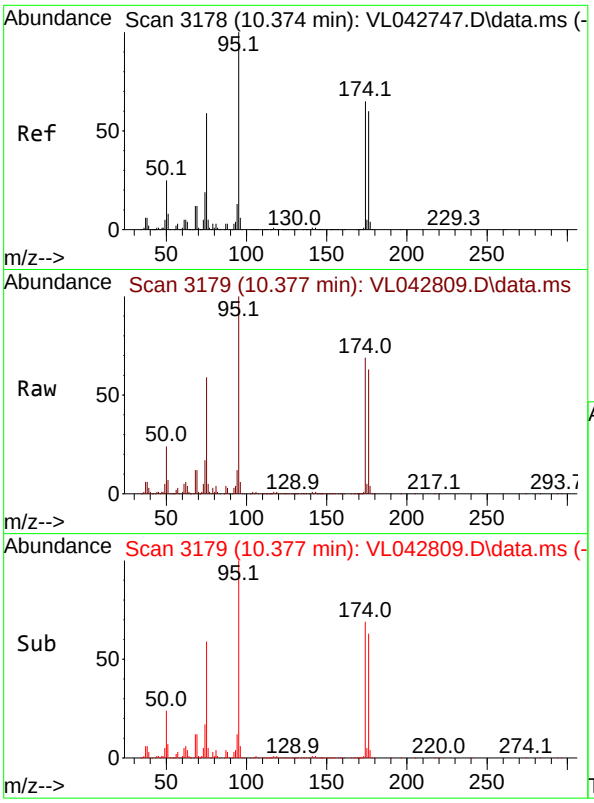


#66
Benzyl Chloride
Concen: 0.025 ppbv
RT: 11.633 min Scan# 3567
Delta R.T. 0.016 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion: 91 Resp: 122

Ion	Ratio	Lower	Upper
91	100		
126	20.5	14.4	21.6
128	27.9	5.2	7.8#



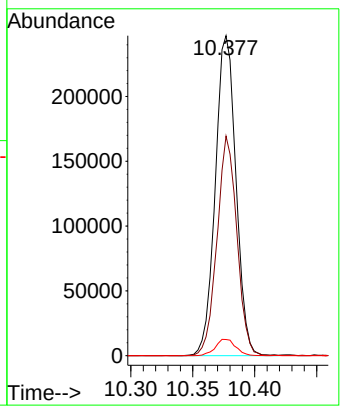


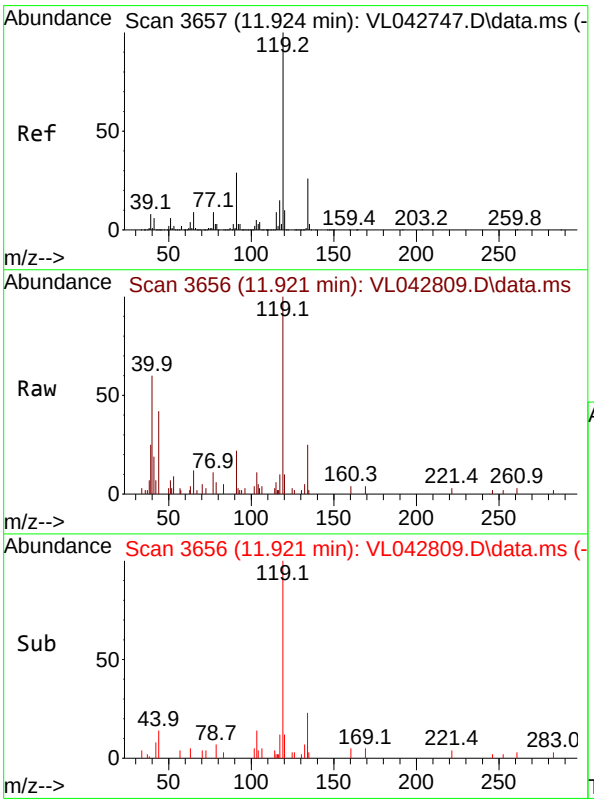
#68
1-Bromo-4-Fluorobenzene
Concen: 9.987 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion: 95 Resp: 287056

Ion	Ratio	Lower	Upper
95	100		
174	66.3	53.8	80.6
175	5.1	4.0	6.0

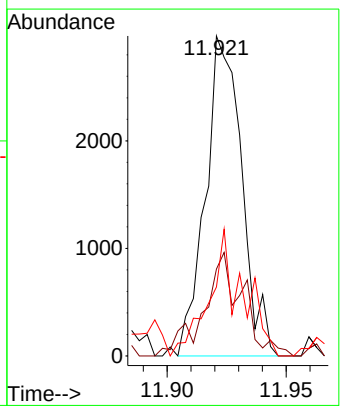


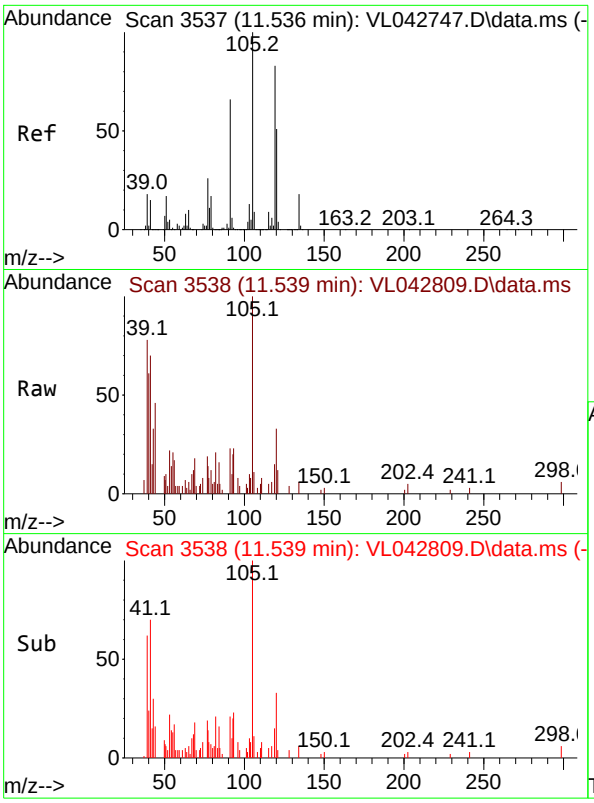


#69
p-Isopropyltoluene
Concen: 0.045 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion:119 Resp: 3143

Ion	Ratio	Lower	Upper
119	100		
134	37.0	20.6	31.0#
91	42.2	23.2	34.8#



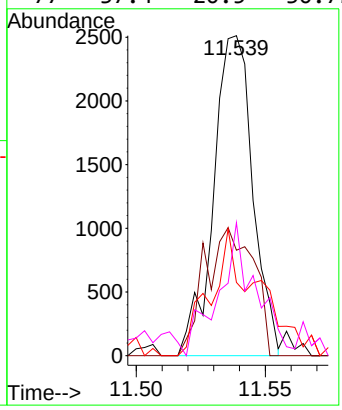


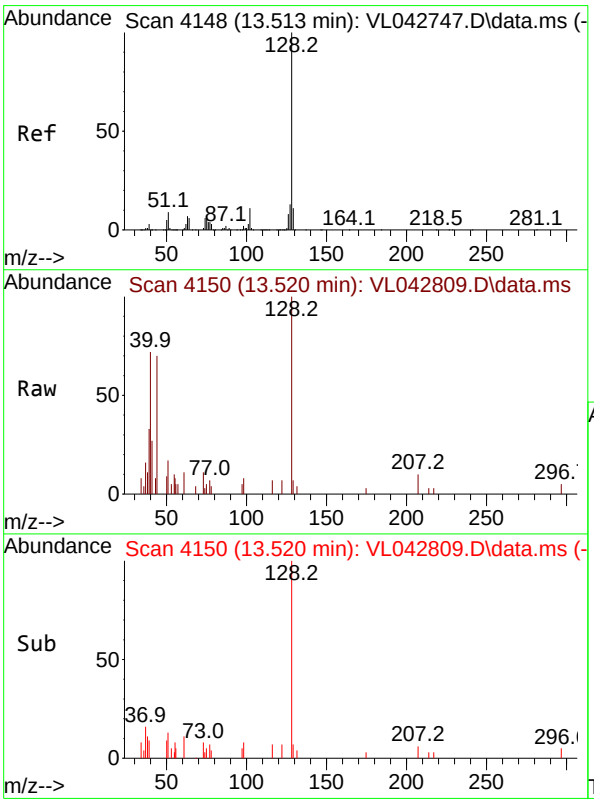
#74
1,2,4-Trimethylbenzene
Concen: 0.054 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion:105 Resp: 2656

Ion	Ratio	Lower	Upper
105	100		
120	44.9	40.8	61.2
91	22.9	53.0	79.4#
77	37.4	20.5	30.7#

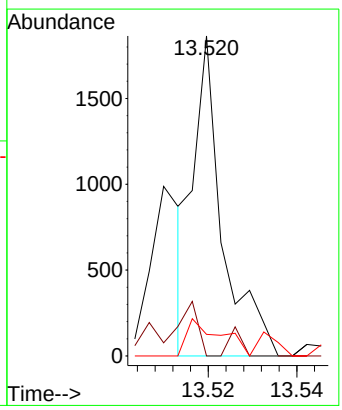


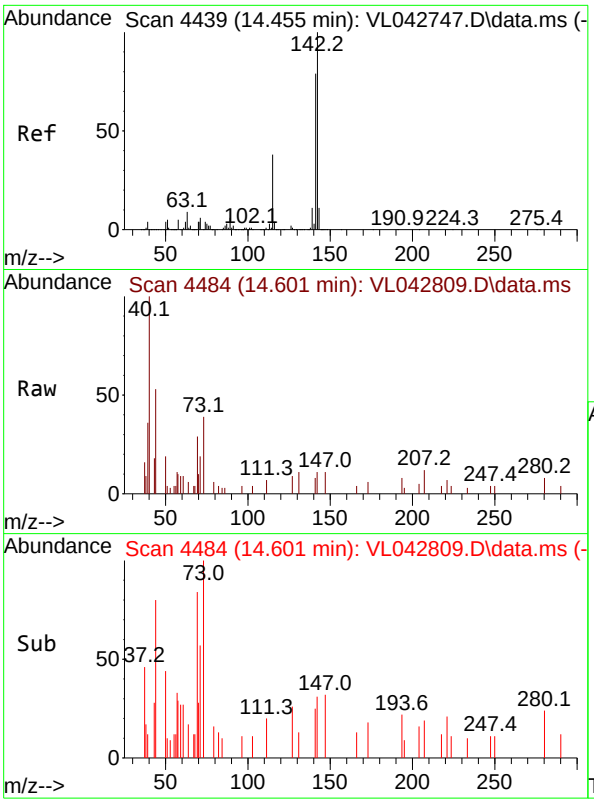


#79
Naphthalene
Concen: 0.450 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.006 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion:128 Resp: 848

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	6.8	8.6	13.0#



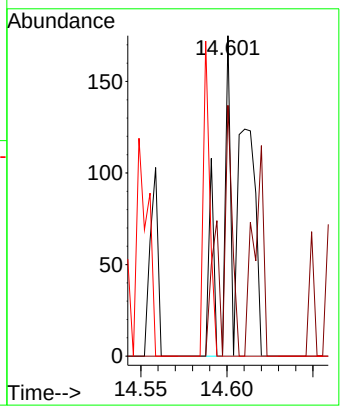


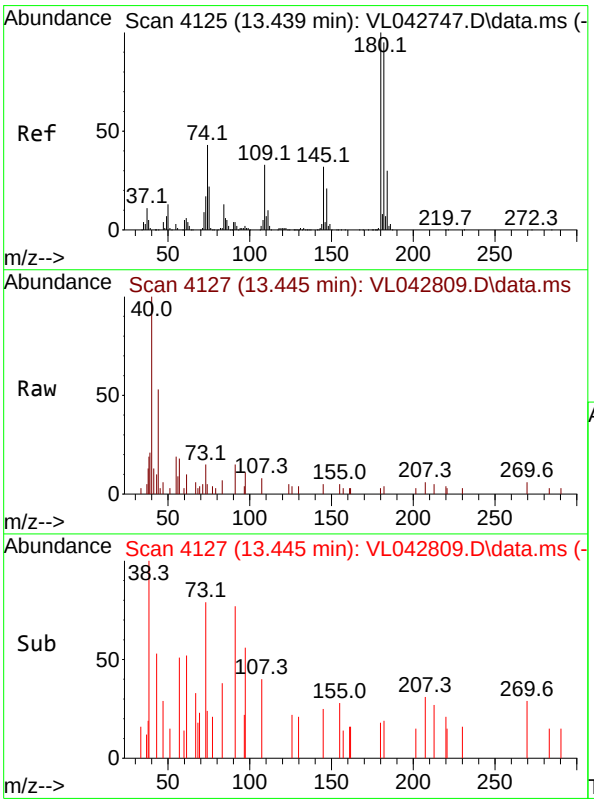
#80
Naphthalene,2-methyl-
Concen: 1.133 ppbv
RT: 14.601 min Scan# 44
Delta R.T. 0.146 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11

Tgt Ion:142 Resp: 144

Ion	Ratio	Lower	Upper
142	100		
141	75.0	65.8	98.8
115	31.3	31.2	46.8

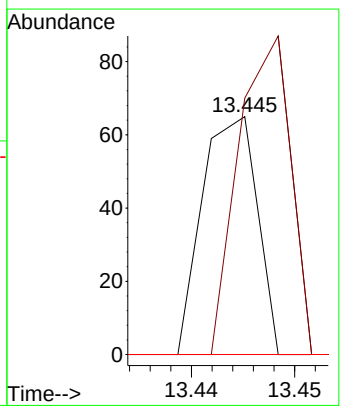




#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.445 min Scan# 4127
Delta R.T. 0.006 min
Lab File: VL042809.D
Acq: 04 Aug 2025 17:26

Tgt Ion:180 Resp: 24

Ion	Ratio	Lower	Upper
180	100		
182	345.8	76.2	114.2#
184	0.0	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042810.D
Acq On : 04 Aug 2025 18:00
Operator : SY/MD
Sample : Q2750-10DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Quant Time: Aug 05 01:10:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	151986	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	405426	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	345370	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	255374	9.337	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 93.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	1046	0.052	ppbv #	62
3) Chlorodifluoromethane	1.473	51	46568	1.779	ppbv	97
4) Chloromethane	1.531	50	610	0.075	ppbv	94
7) Chloroethane	1.706	64	129	0.042	ppbv #	45
9) Propene	1.884	41	353089	37.113	ppbv	93
13) Ethanol	1.719	45	163998	235.588	ppbv	90
15) Acetone	1.836	43	66024	3.146	ppbv	98
16) 1,3-Butadiene	1.561	39	4747	0.530	ppbv #	19
17) tert-Butyl alcohol	1.884	59	139390	7.364	ppbv	96
19) Isopropyl Alcohol	1.884	45	2471720	221.626	ppbv #	39
20) Methylene Chloride	2.062	84	2567	0.388	ppbv #	85
21) Allyl Chloride	1.962	41	6174	0.477	ppbv #	17
25) Ethyl Acetate	2.836	43	2314	0.050	ppbv #	88
26) Hexane	2.823	57	8716	0.428	ppbv #	47
27) Carbon Disulfide	2.150	76	1767	0.101	ppbv #	67
34) 2-Butanone	2.561	43	2220	0.077	ppbv	96
39) 1,2-Dichloropropane	3.956	63	101560	7.161	ppbv #	21
79) Naphthalene	13.507	128	38	0.436	ppbv #	69
80) Naphthalene,2-methyl-	14.439	142	30	1.130	ppbv #	1
81) 1,2,4-Trichlorobenzene	13.488	180	34	0.436	ppbv #	1

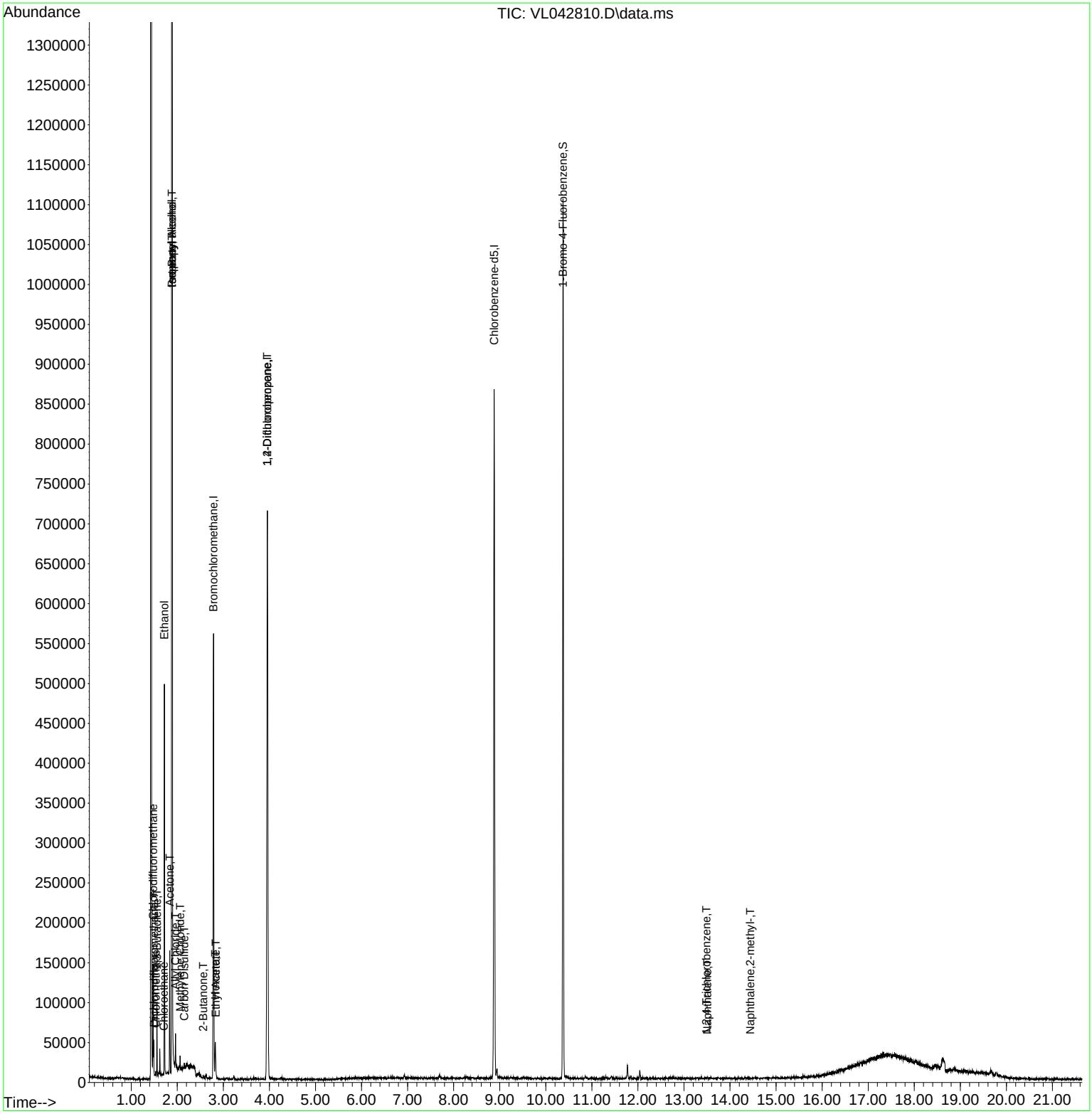
(#) = qualifier out of range (m) = manual integration (+) = signals summed

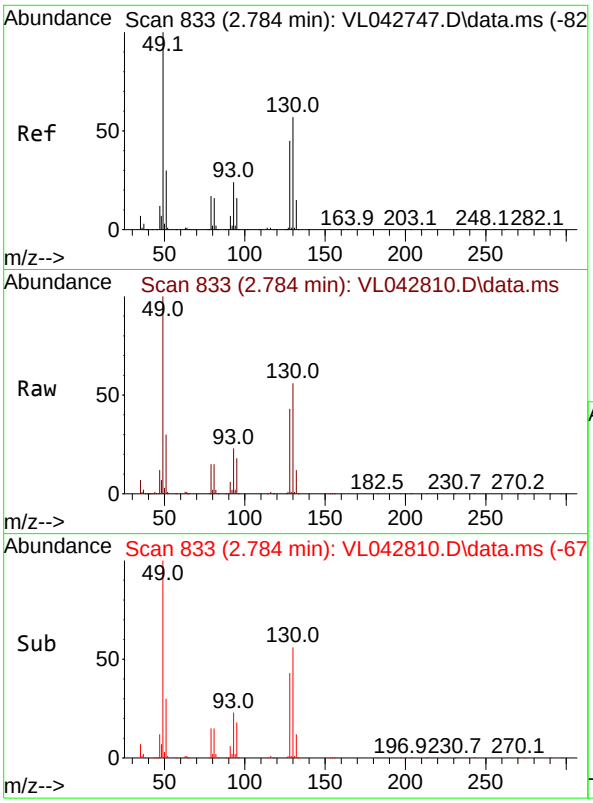
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042810.D
Acq On : 04 Aug 2025 18:00
Operator : SY/MD
Sample : Q2750-10DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Quant Time: Aug 05 01:10:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



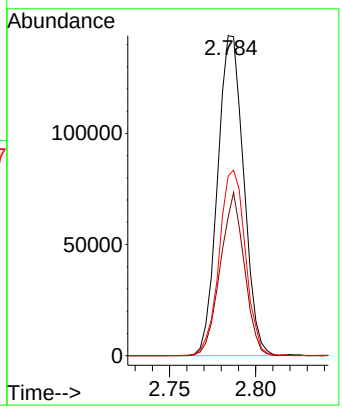


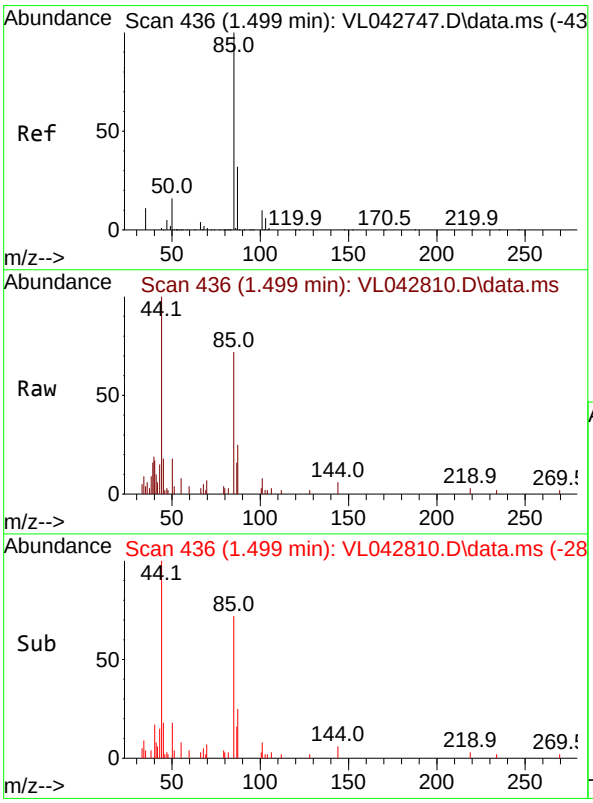
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Tgt Ion: 49 Resp: 151986

Ion	Ratio	Lower	Upper
49	100		
128	46.8	23.6	71.0
130	58.2	30.3	90.8

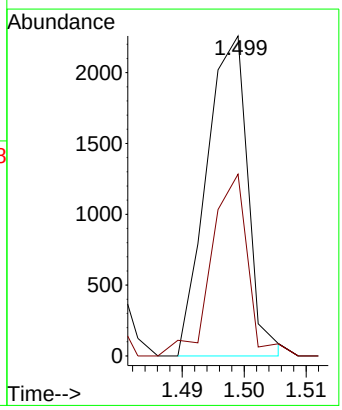


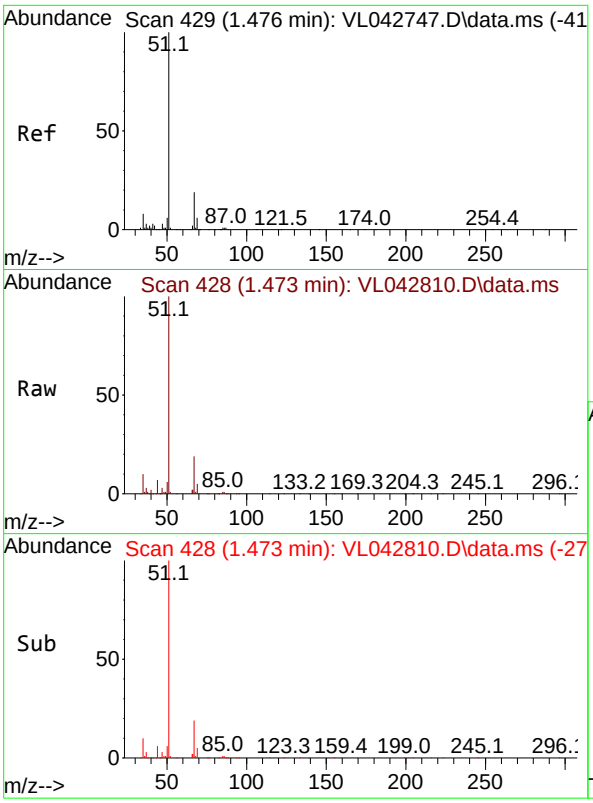


#2
Dichlorodifluoromethane
Concen: 0.052 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 85 Resp: 1046

Ion	Ratio	Lower	Upper
85	100		
87	53.0	25.4	38.2#



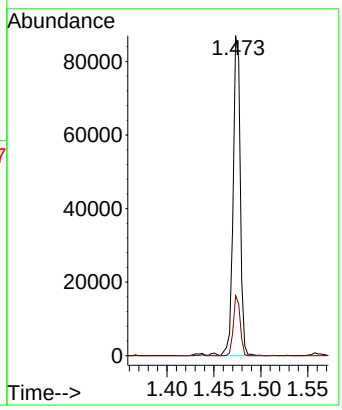


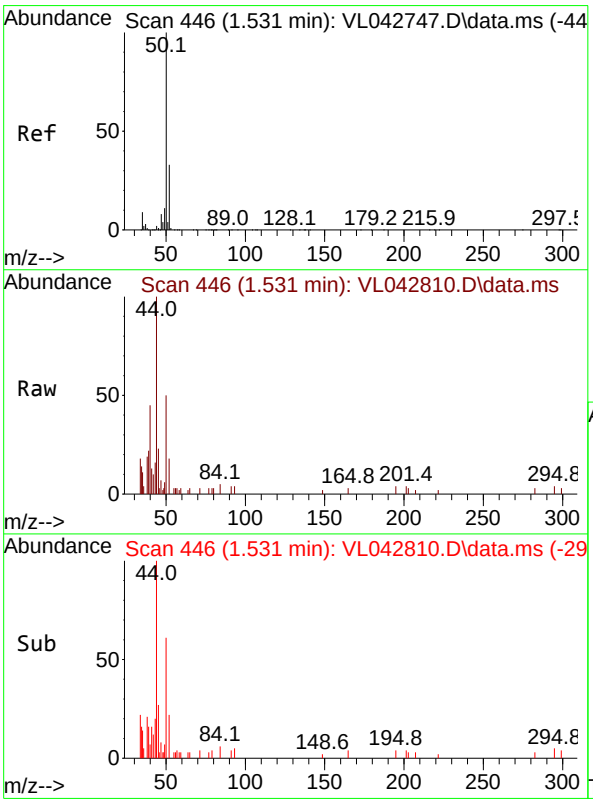
#3
Chlorodifluoromethane
Concen: 1.779 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Tgt Ion: 51 Resp: 46568

Ion	Ratio	Lower	Upper
51	100		
67	17.6	15.0	22.6

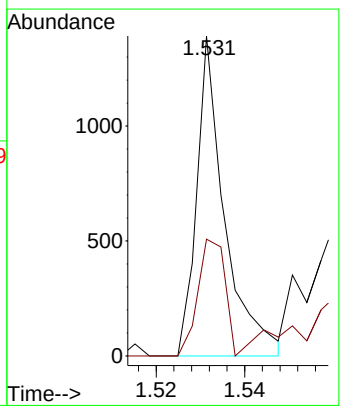


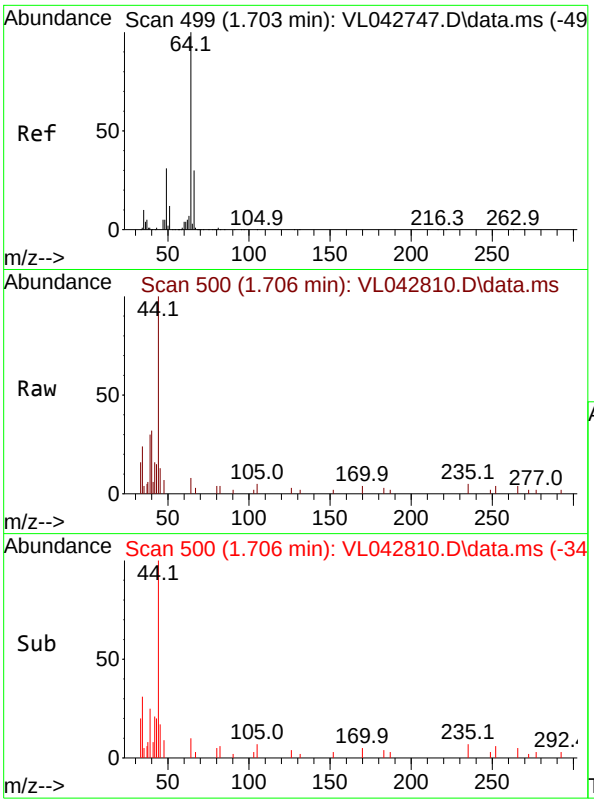


#4
Chloromethane
Concen: 0.075 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 50 Resp: 610

Ion	Ratio	Lower	Upper
50	100		
52	36.5	26.6	40.0



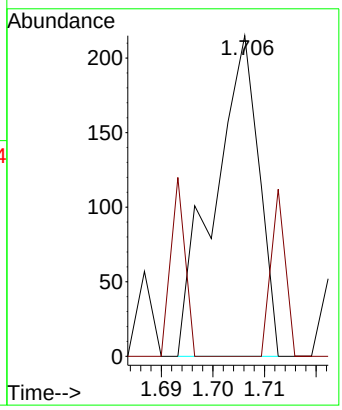


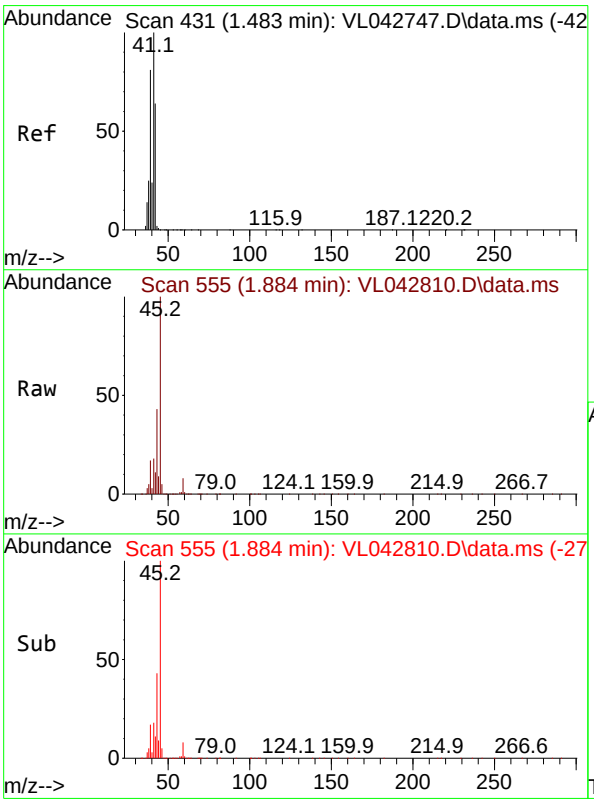
#7
Chloroethane
Concen: 0.042 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Tgt Ion: 64 Resp: 129

Ion	Ratio	Lower	Upper
64	100		
66	0.0	24.1	36.1#

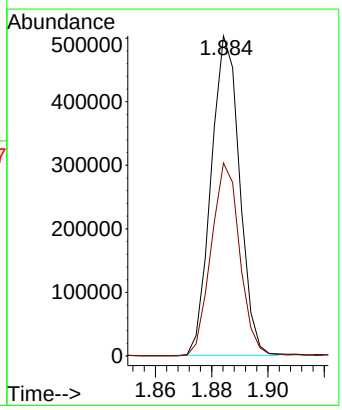


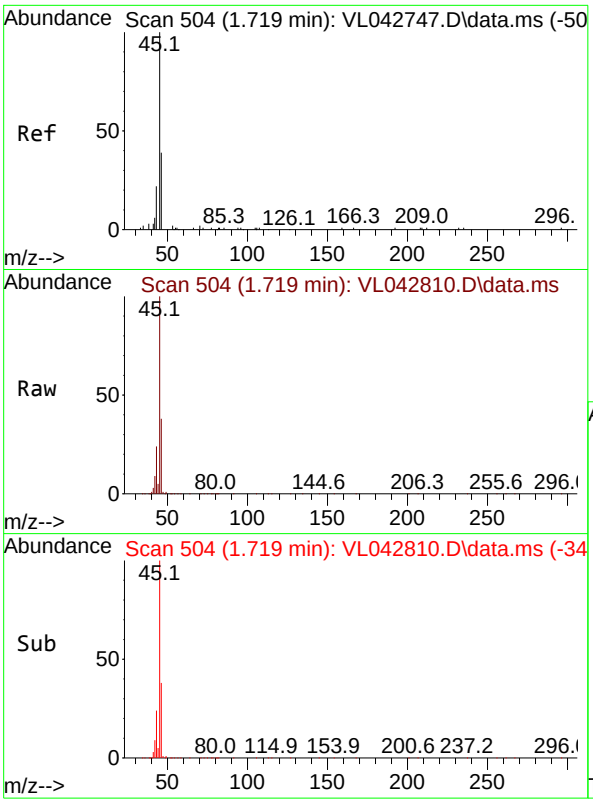


#9
Propene
Concen: 37.113 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.402 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 41 Resp: 353089

Ion	Ratio	Lower	Upper
41	100		
42	61.1	53.2	79.8



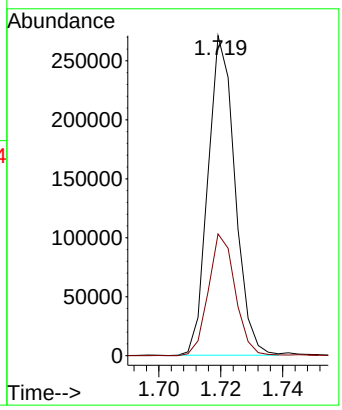


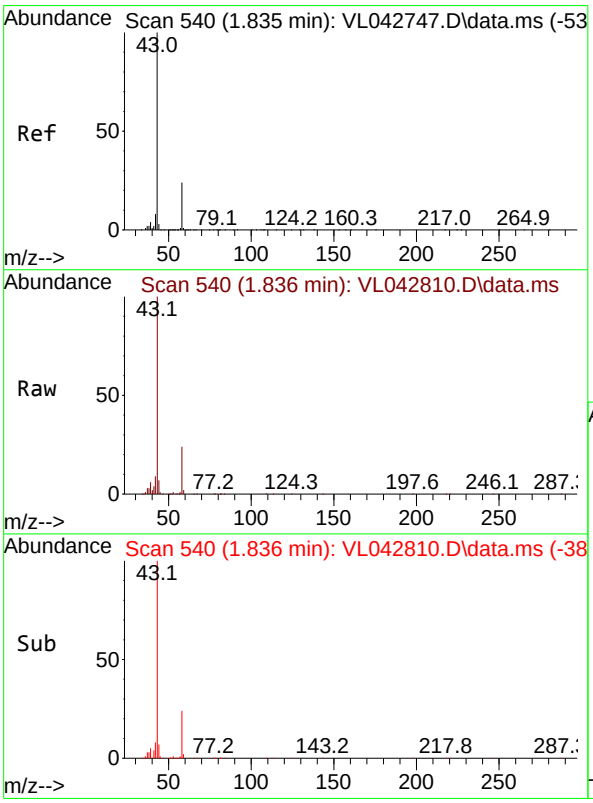
#13
Ethanol
Concen: 235.588 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Tgt Ion: 45 Resp: 163998

Ion	Ratio	Lower	Upper
45	100		
46	38.3	17.8	71.4

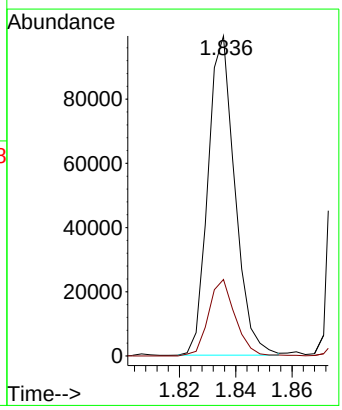


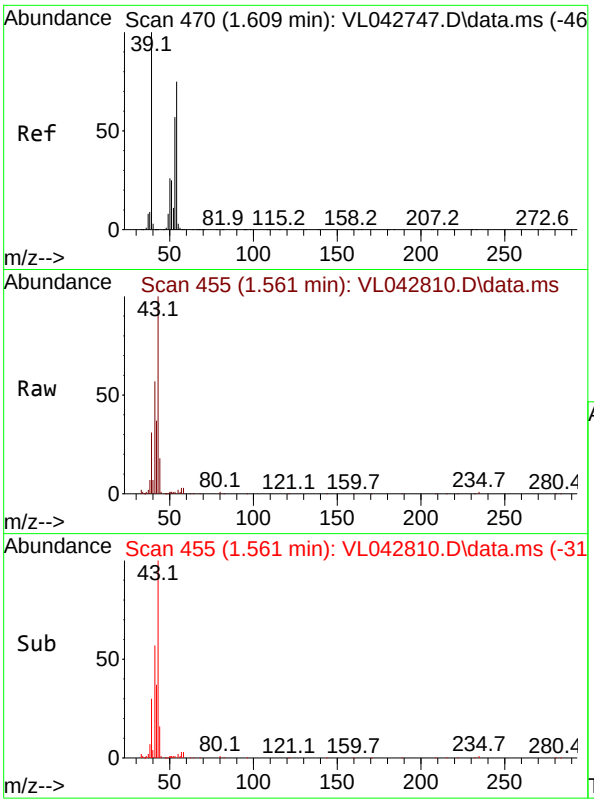


#15
Acetone
Concen: 3.146 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 43 Resp: 66024

Ion	Ratio	Lower	Upper
43	100		
58	23.8	19.8	29.8



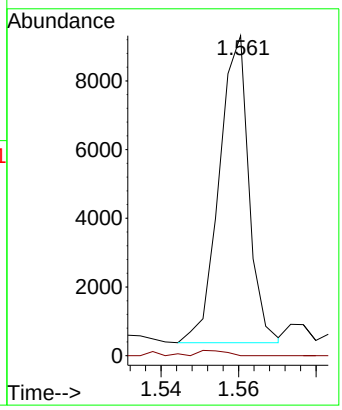


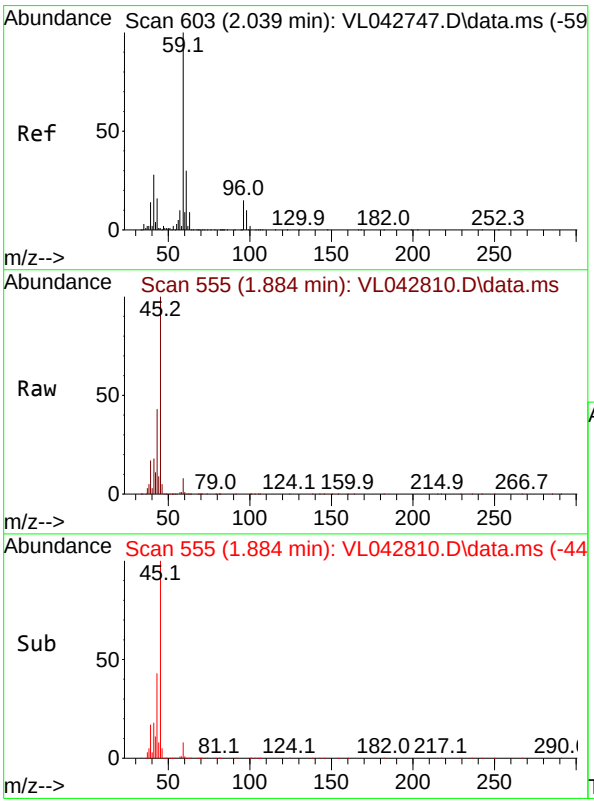
#16
1,3-Butadiene
Concen: 0.530 ppbv
RT: 1.561 min Scan# 4
Delta R.T. -0.048 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Tgt Ion: 39 Resp: 4747

Ion	Ratio	Lower	Upper
39	100		
54	2.3	54.5	81.7#

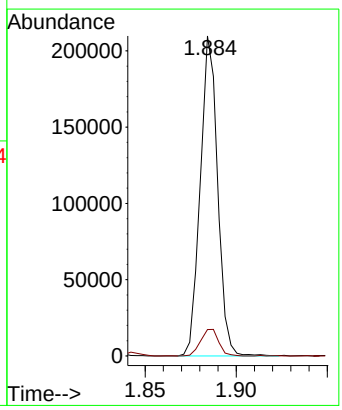


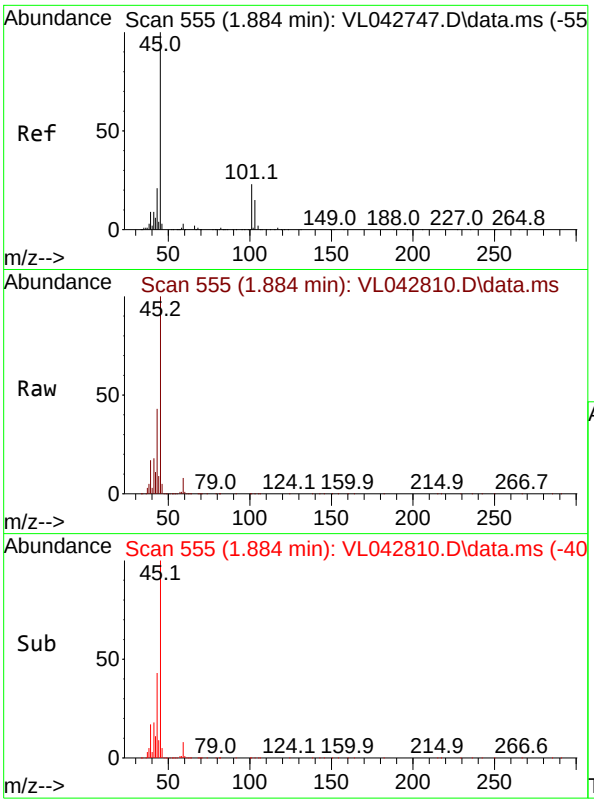


#17
tert-Butyl alcohol
Concen: 7.364 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.155 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 59 Resp: 139390

Ion	Ratio	Lower	Upper
59	100		
57	8.8	8.3	12.5



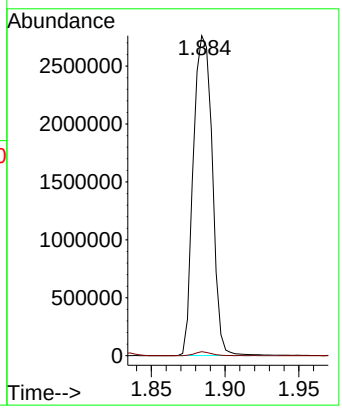


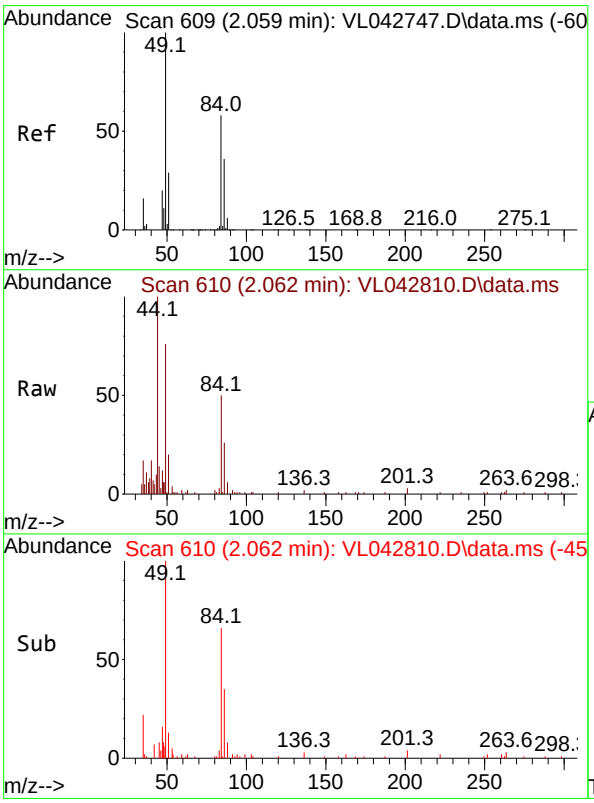
#19
Isopropyl Alcohol
Concen: 221.626 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Tgt Ion: 45 Resp: 2471720

Ion	Ratio	Lower	Upper
45	100		
58	1.1	30.0	45.0#

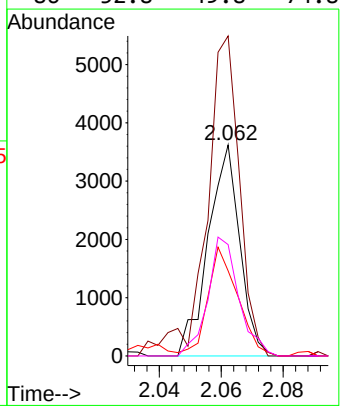


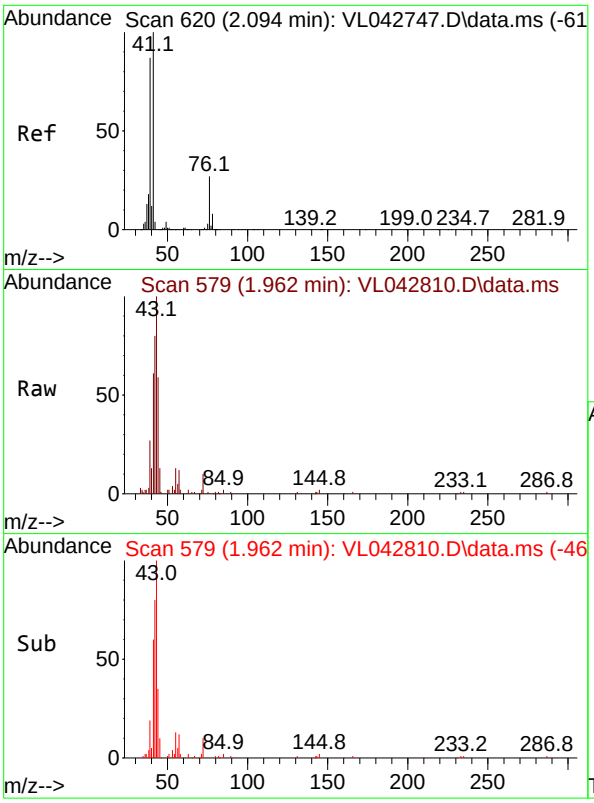


#20
Methylene Chloride
Concen: 0.388 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 84 Resp: 2567

Ion	Ratio	Lower	Upper
84	100		
49	151.6	138.6	208.0
51	40.3	40.6	61.0#
86	52.8	49.8	74.8



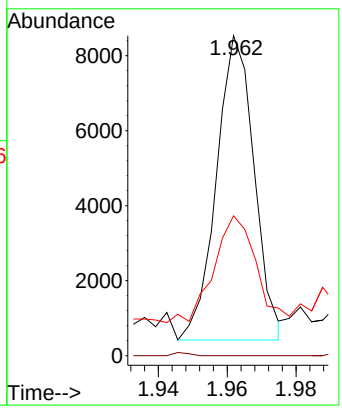


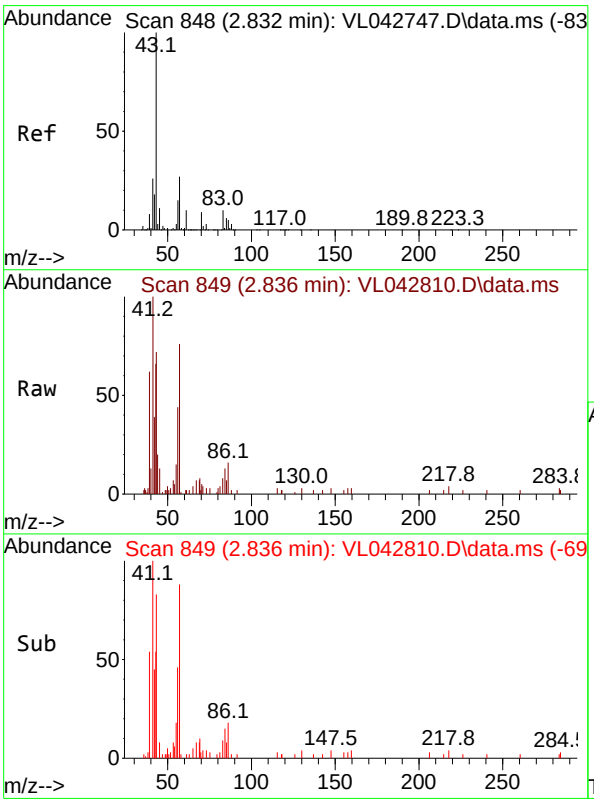
#21
Allyl Chloride
Concen: 0.477 ppbv
RT: 1.962 min Scan# 5
Delta R.T. -0.133 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Tgt Ion: 41 Resp: 6174

Ion	Ratio	Lower	Upper
41	100		
76	1.8	21.1	31.7#
39	0.0	68.3	102.5#

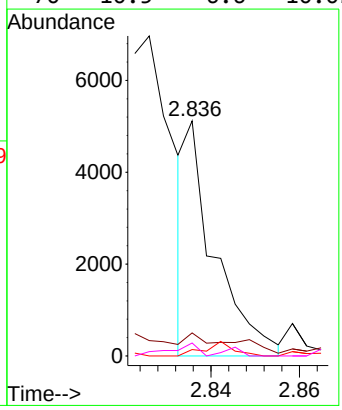


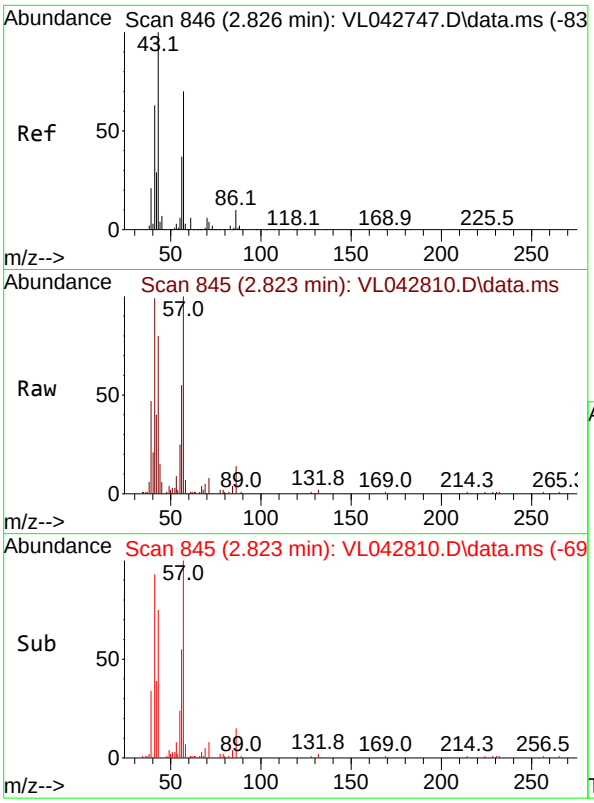


#25
Ethyl Acetate
Concen: 0.050 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 43 Resp: 2314

Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	8.8	6.7	10.1
70	10.5	6.6	10.0#



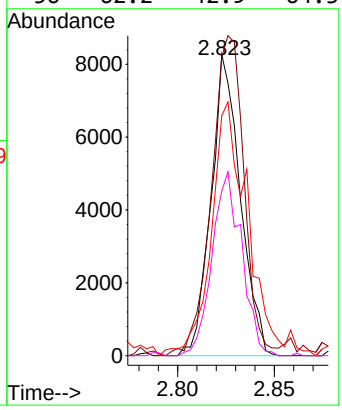


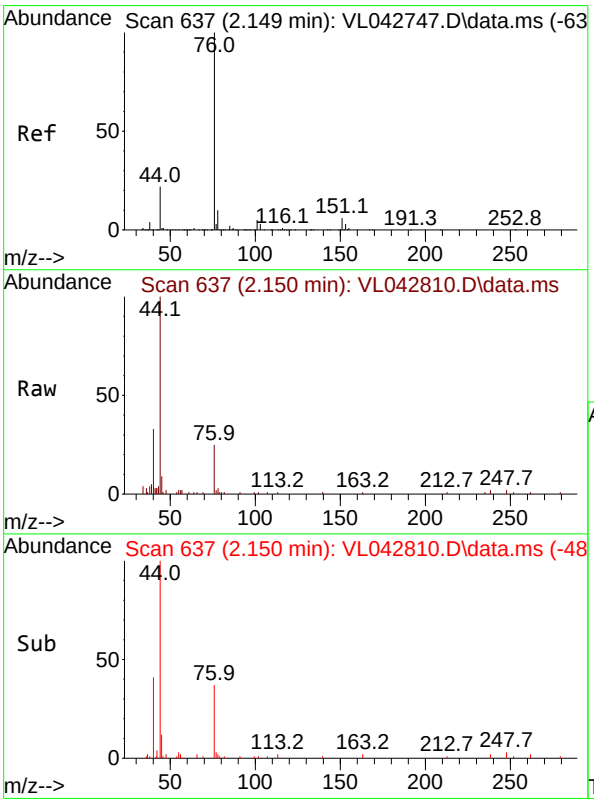
#26
Hexane
Concen: 0.428 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Tgt Ion: 57 Resp: 8716

Ion	Ratio	Lower	Upper
57	100		
41	124.7	75.4	113.2#
43	111.7	185.0	277.6#
56	62.2	42.9	64.3

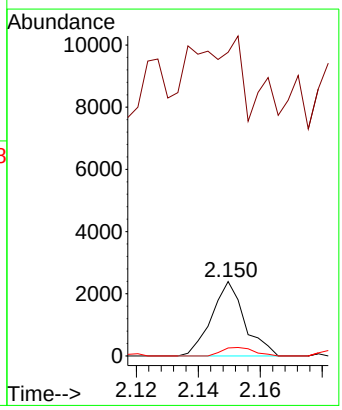


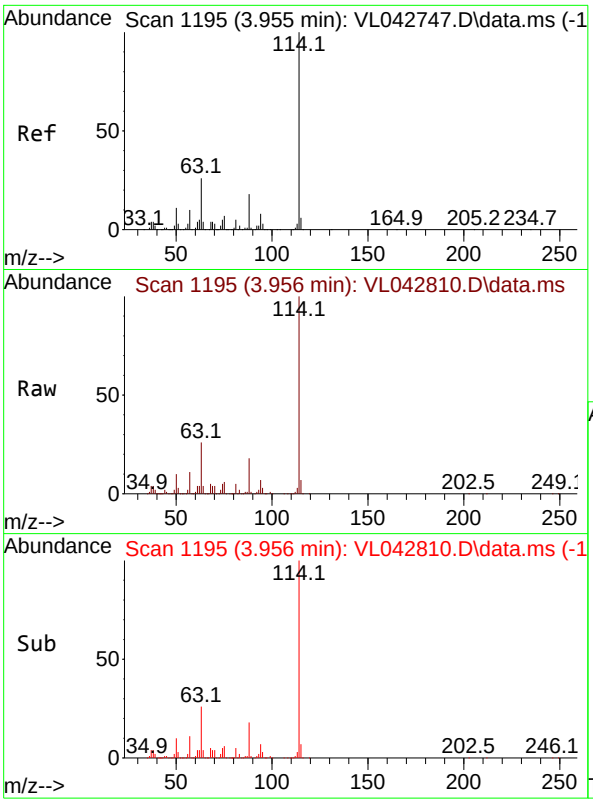


#27
Carbon Disulfide
Concen: 0.101 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 76 Resp: 1767

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	11.1	9.9	14.9



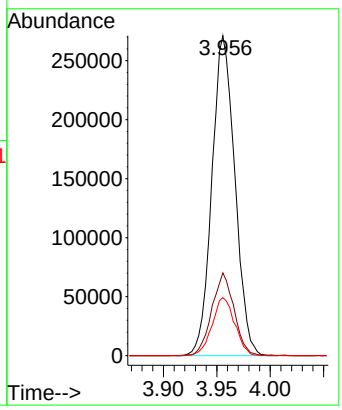


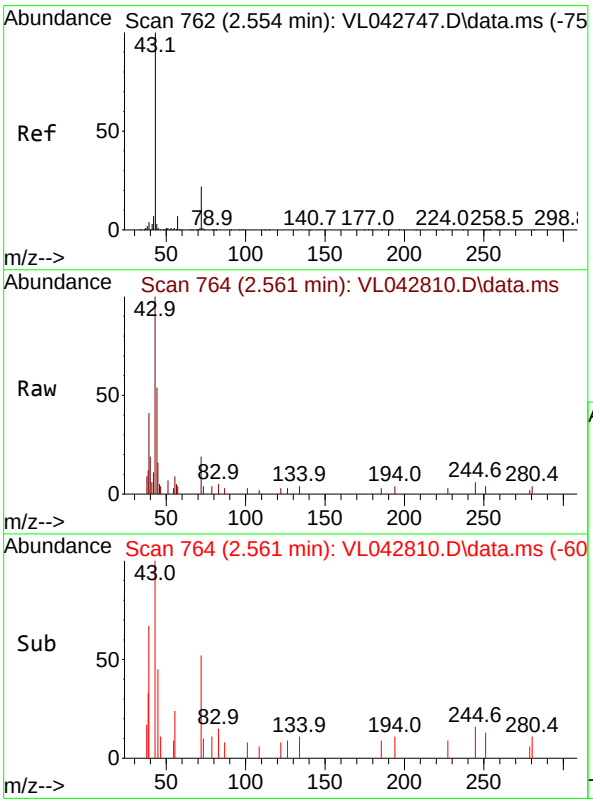
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Tgt Ion:114 Resp: 405426

Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.5	30.7
88	17.9	14.0	21.0

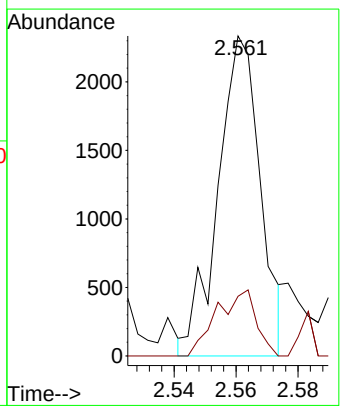


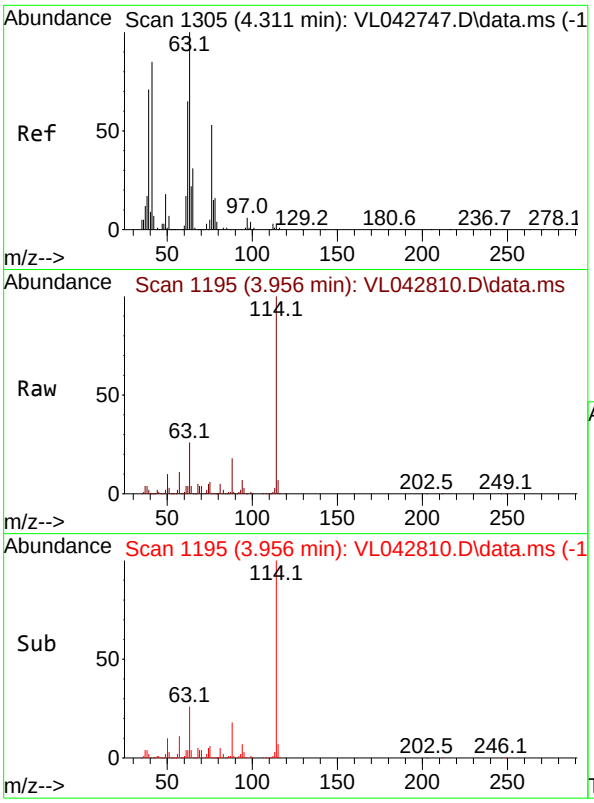


#34
2-Butanone
Concen: 0.077 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.007 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 43 Resp: 2220

Ion	Ratio	Lower	Upper
43	100		
72	23.4	17.4	26.0



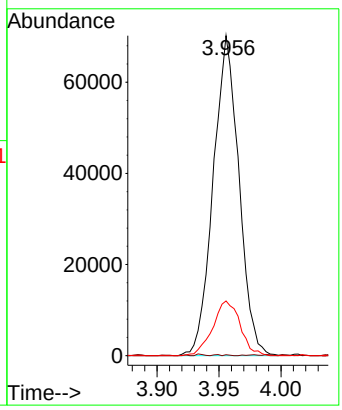


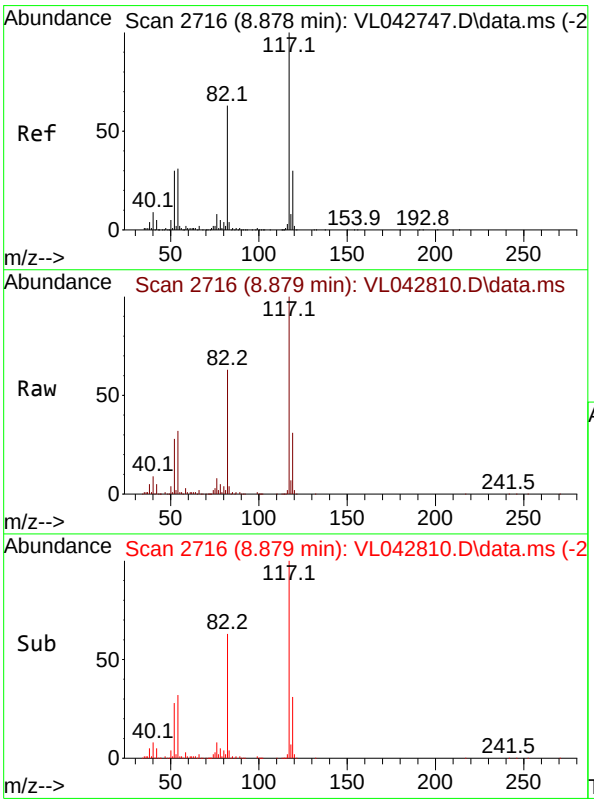
#39
1,2-Dichloropropane
Concen: 7.161 ppbv
RT: 3.956 min Scan# 11
Delta R.T. -0.356 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Tgt Ion: 63 Resp: 101560

Ion	Ratio	Lower	Upper
63	100		
41	0.3	68.2	102.4#
62	17.1	52.0	78.0#

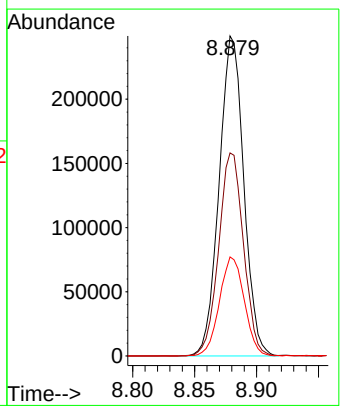


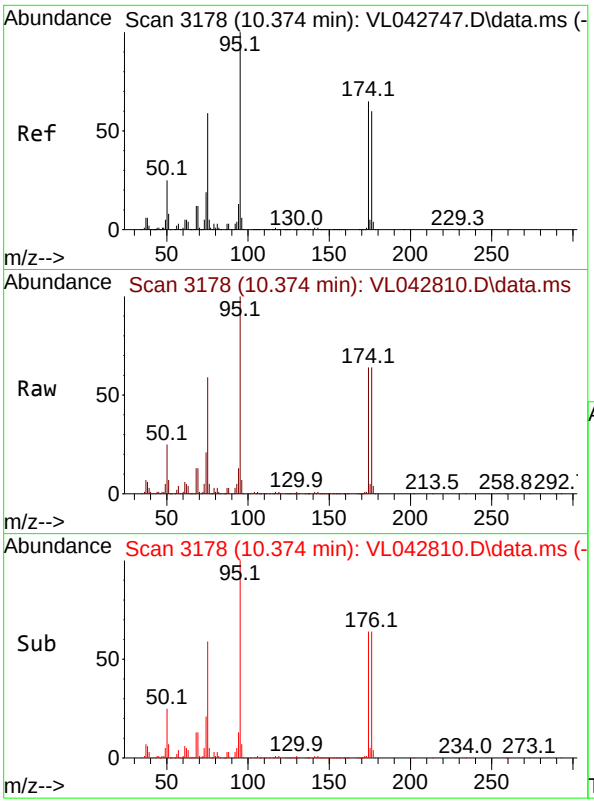


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion:117 Resp: 345370

Ion	Ratio	Lower	Upper
117	100		
82	64.1	53.3	79.9
119	31.3	25.8	38.6



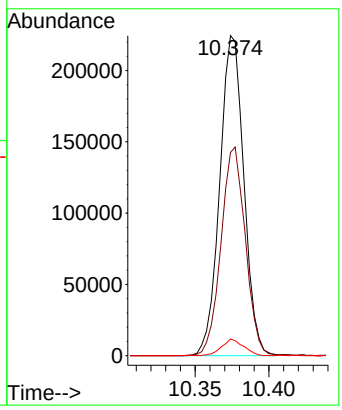


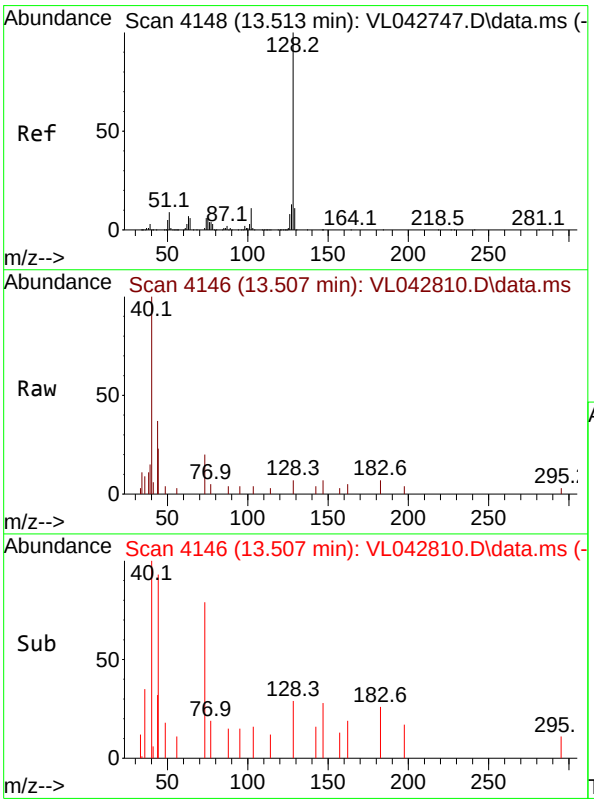
#68
1-Bromo-4-Fluorobenzene
Concen: 9.337 ppbv
RT: 10.374 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Tgt Ion: 95 Resp: 255374

Ion	Ratio	Lower	Upper
95	100		
174	66.0	53.8	80.6
175	4.8	4.0	6.0

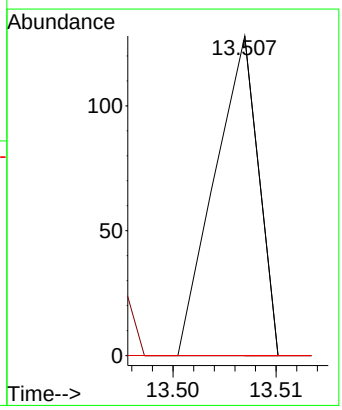


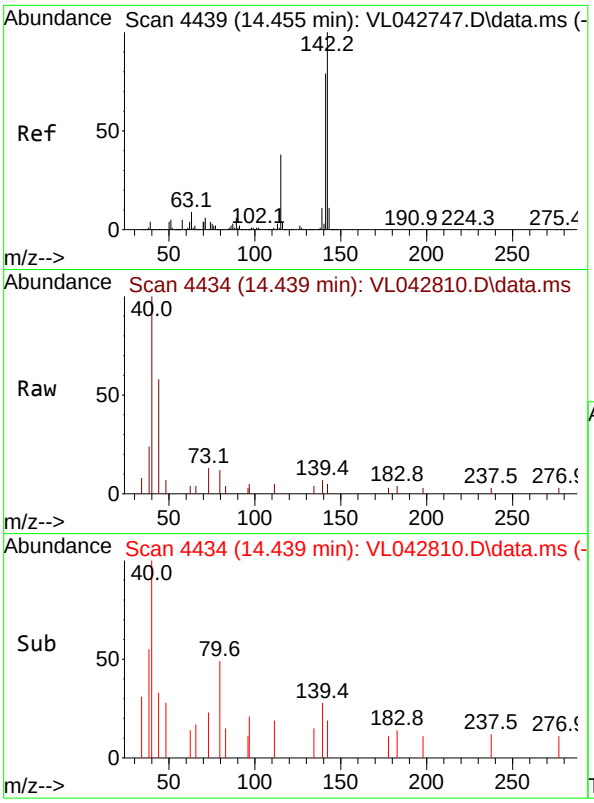


#79
Naphthalene
Concen: 0.436 ppbv
RT: 13.507 min Scan# 4146
Delta R.T. -0.006 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion:128 Resp: 38

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	13.0#



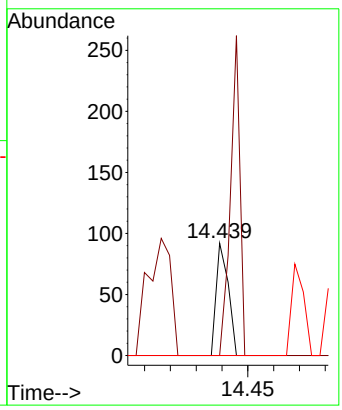


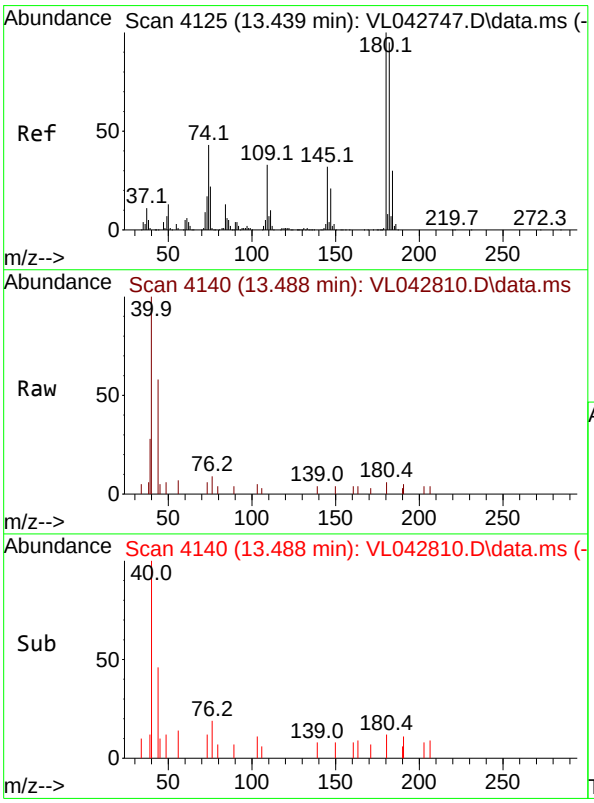
#80
Naphthalene,2-methyl-
Concen: 1.130 ppbv
RT: 14.439 min Scan# 44
Delta R.T. -0.016 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-11DL

Tgt Ion:142 Resp: 30

Ion	Ratio	Lower	Upper
142	100		
141	223.3	65.8	98.8#
115	0.0	31.2	46.8#

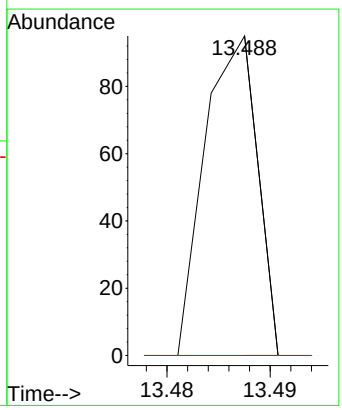




#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.488 min Scan# 4140
Delta R.T. 0.049 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion:180 Resp: 34

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	97.1	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042813.D
Acq On : 04 Aug 2025 19:41
Operator : SY/MD
Sample : Q2750-03DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Quant Time: Aug 05 01:11:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

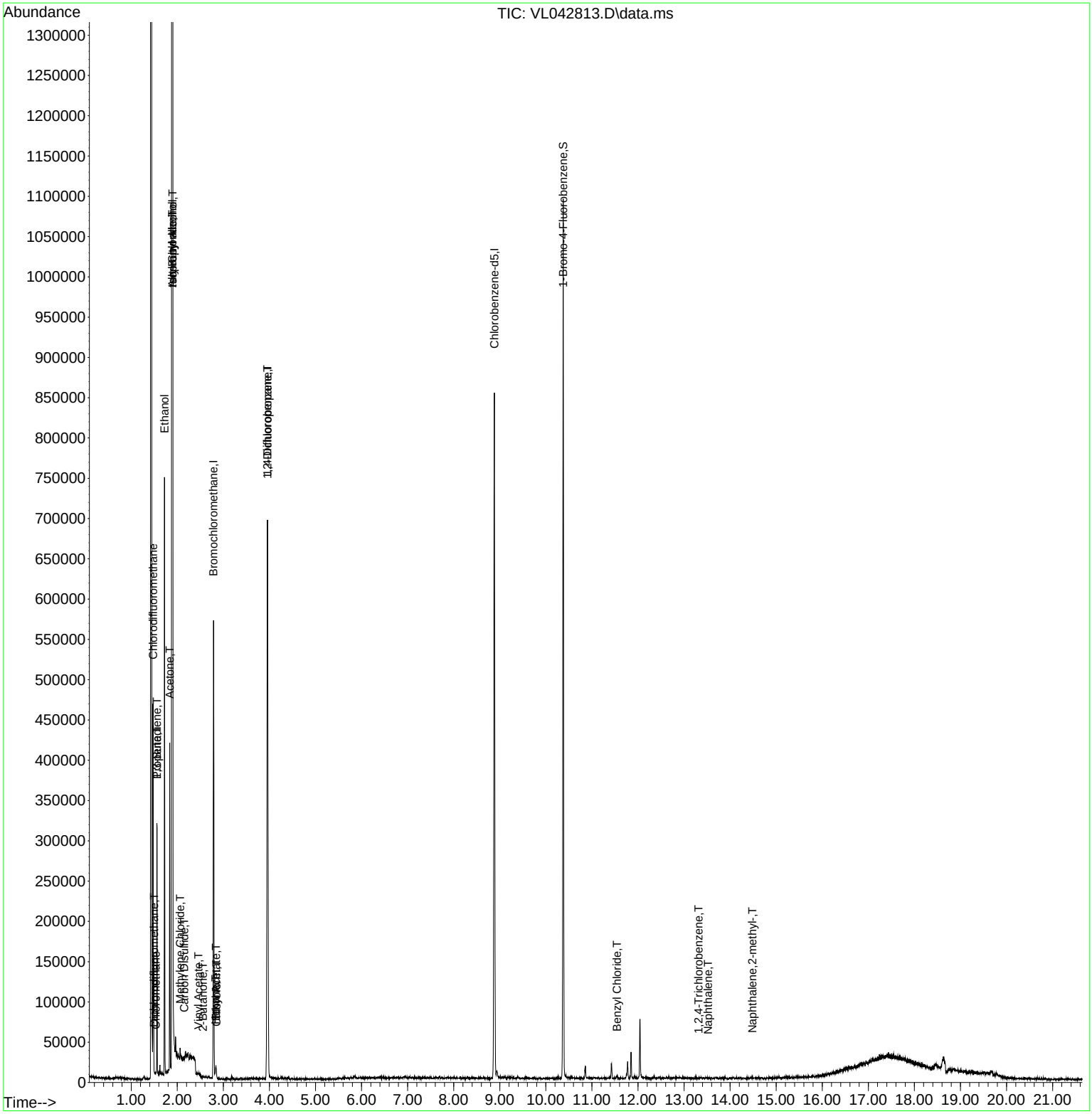
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	146355	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	388590	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	332901	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	252224	9.567	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	651	0.034	ppbv #	79
3) Chlorodifluoromethane	1.473	51	133474	5.295	ppbv	99
4) Chloromethane	1.531	50	432	0.055	ppbv	99
9) Propene	1.557	41	38418	4.193	ppbv	98
13) Ethanol	1.722	45	252970	378.074	ppbv	89
15) Acetone	1.835	43	166188	8.223	ppbv	99
16) 1,3-Butadiene	1.557	39	17318	2.009	ppbv #	19
17) tert-Butyl alcohol	1.894	59	559405	30.691	ppbv #	94
19) Isopropyl Alcohol	1.897	45	4720366	439.534	ppbv #	40
20) Methylene Chloride	2.062	84	2222	0.349	ppbv #	87
21) Allyl Chloride	1.894	41	1260858	101.231	ppbv #	84
23) Vinyl Acetate	2.457	43	1494	0.061	ppbv #	92
25) Ethyl Acetate	2.839	43	8734	0.195	ppbv #	52
26) Hexane	2.829	57	1525	0.078	ppbv #	1
27) Carbon Disulfide	2.149	76	3045	0.181	ppbv #	64
29) Chloroform	2.848	83	1075	0.035	ppbv #	83
34) 2-Butanone	2.557	43	956	0.035	ppbv #	54
39) 1,2-Dichloropropane	3.955	63	100773	7.413	ppbv #	21
66) Benzyl Chloride	11.542	91	268	0.059	ppbv #	76
79) Naphthalene	13.520	128	11	0.435	ppbv #	1
80) Naphthalene,2-methyl-	14.484	142	23	1.129	ppbv #	85
81) 1,2,4-Trichlorobenzene	13.316	180	20	0.436	ppbv #	12

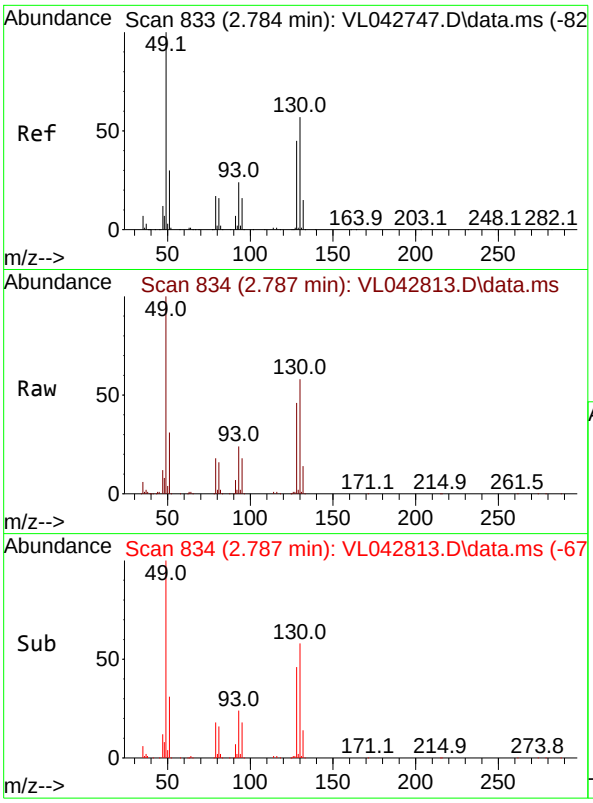
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042813.D
Acq On : 04 Aug 2025 19:41
Operator : SY/MD
Sample : Q2750-03DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Quant Time: Aug 05 01:11:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



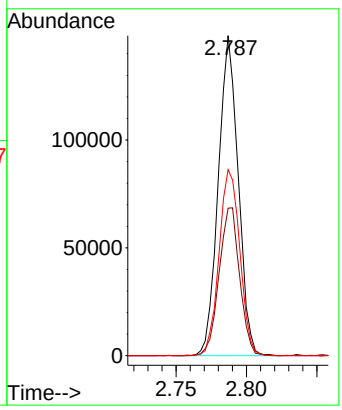


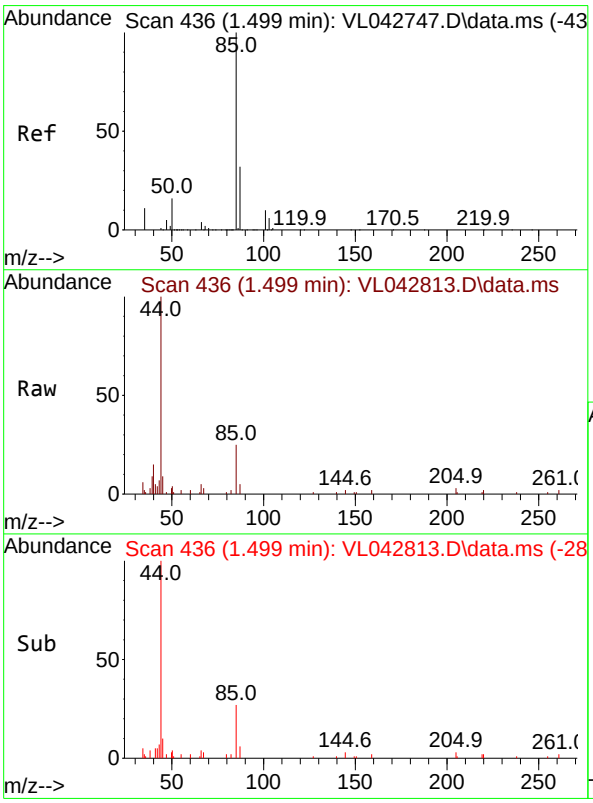
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Tgt Ion: 49 Resp: 146355

Ion	Ratio	Lower	Upper
49	100		
128	47.7	23.6	71.0
130	60.6	30.3	90.8

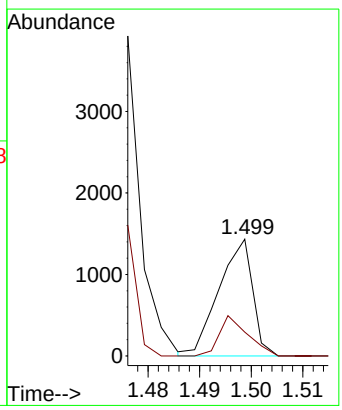


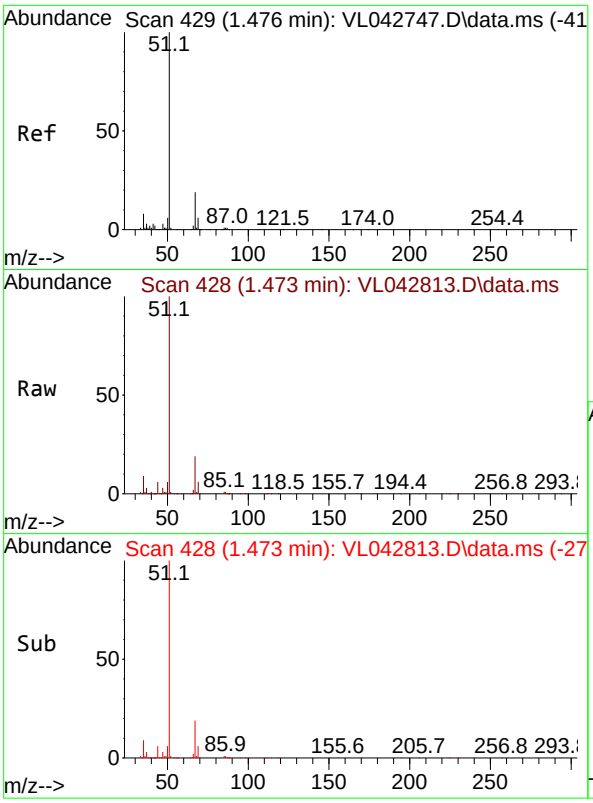


#2
Dichlorodifluoromethane
Concen: 0.034 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 85 Resp: 651

Ion	Ratio	Lower	Upper
85	100		
87	20.4	25.4	38.2#



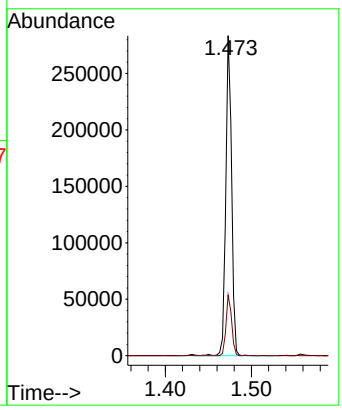


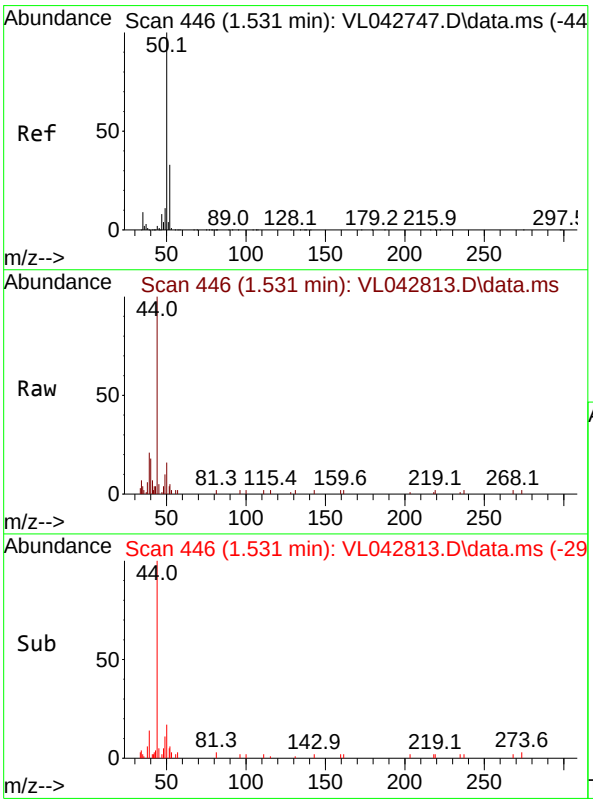
#3
Chlorodifluoromethane
Concen: 5.295 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Tgt Ion: 51 Resp: 133474

Ion	Ratio	Lower	Upper
51	100		
67	18.5	15.0	22.6

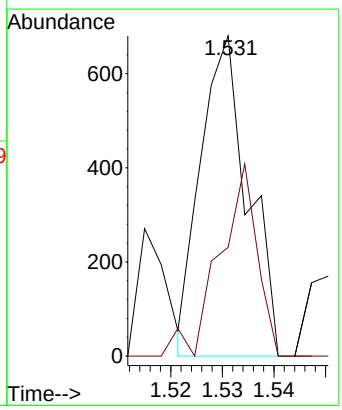


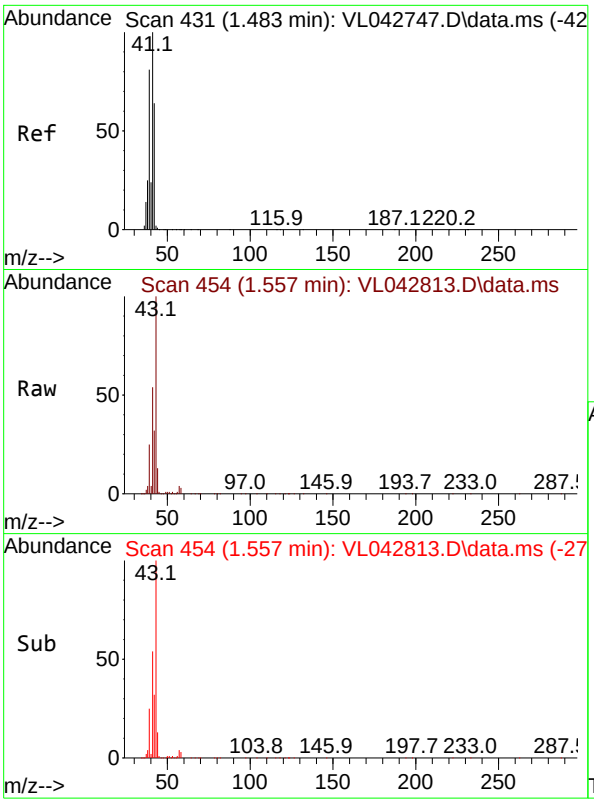


#4
Chloromethane
Concen: 0.055 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 50 Resp: 432

Ion	Ratio	Lower	Upper
50	100		
52	34.0	26.6	40.0



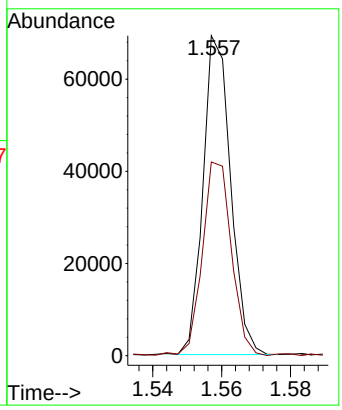


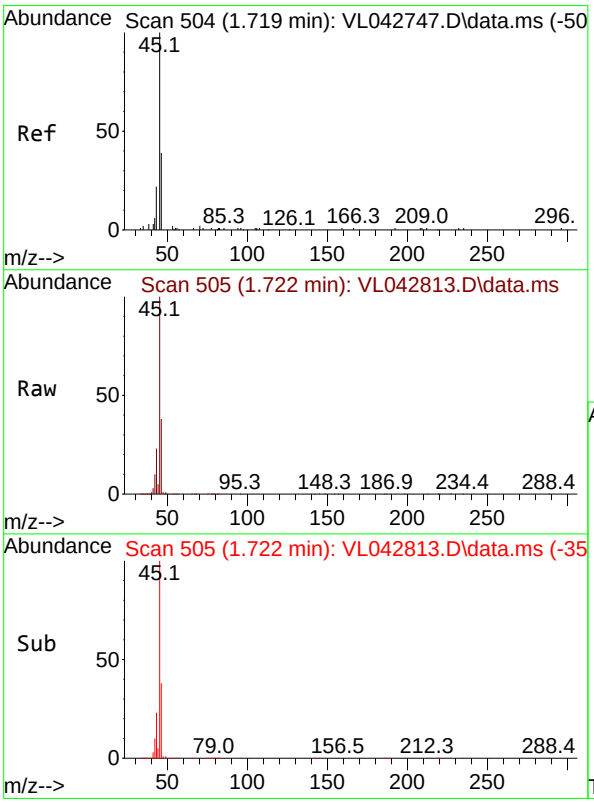
#9
Propene
Concen: 4.193 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.074 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Tgt Ion: 41 Resp: 38418

Ion	Ratio	Lower	Upper
41	100		
42	64.7	53.2	79.8

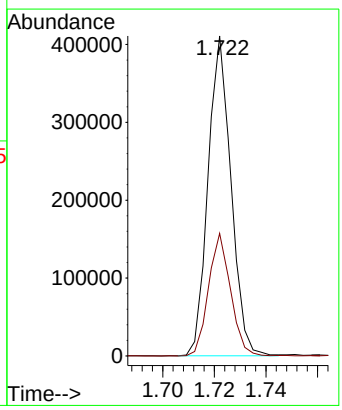


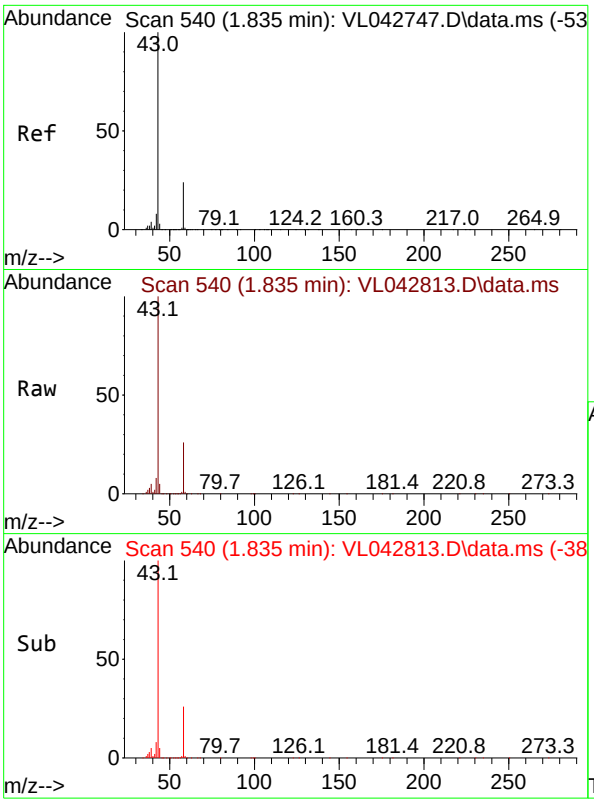


#13
Ethanol
Concen: 378.074 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 45 Resp: 252970

Ion	Ratio	Lower	Upper
45	100		
46	37.3	17.8	71.4



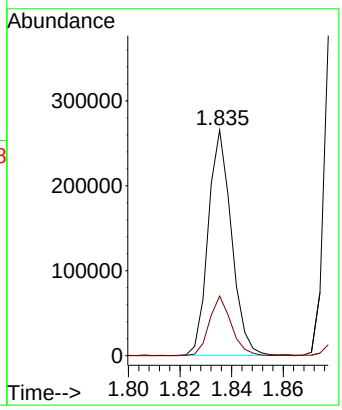


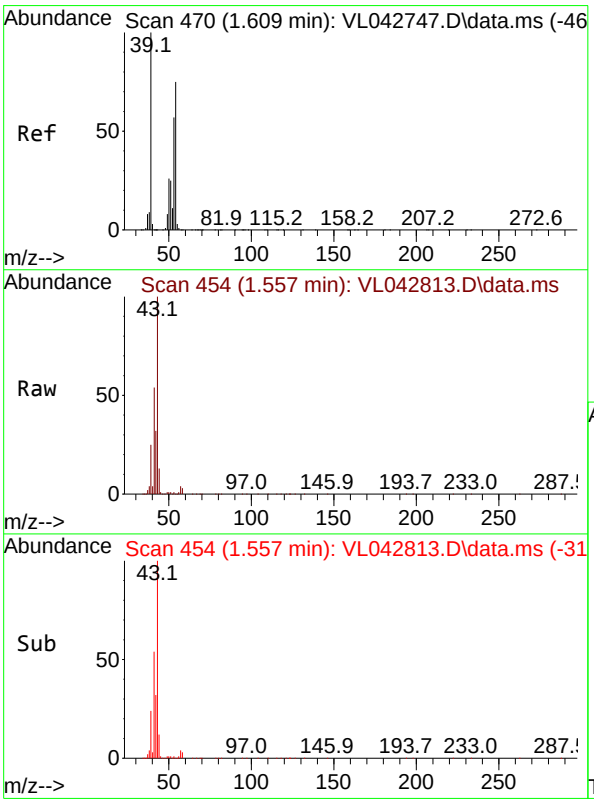
#15
Acetone
Concen: 8.223 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Tgt Ion: 43 Resp: 166188

Ion	Ratio	Lower	Upper
43	100		
58	25.2	19.8	29.8

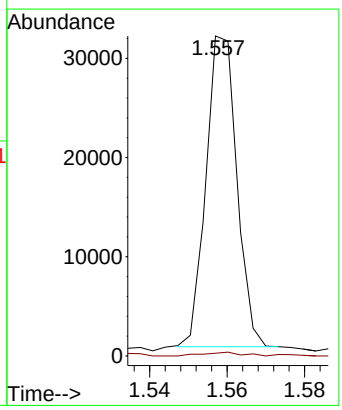


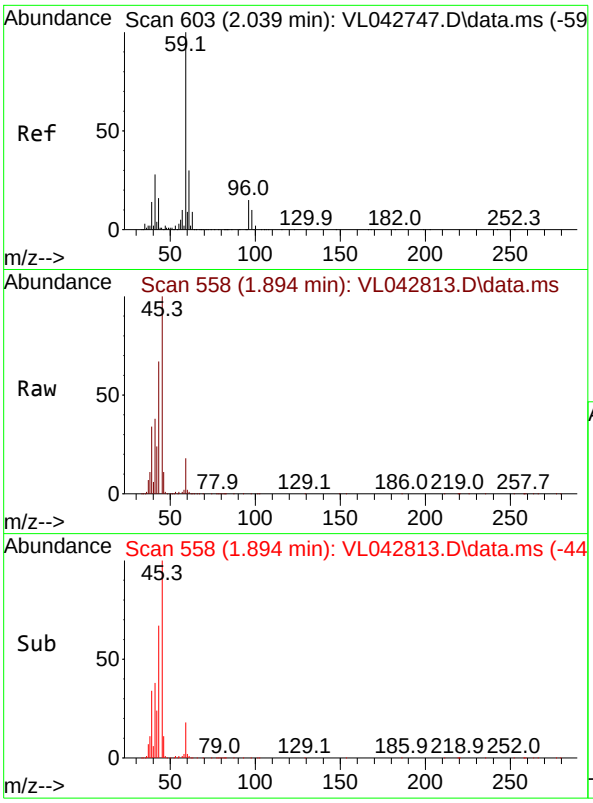


#16
1,3-Butadiene
Concen: 2.009 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.052 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 39 Resp: 17318

Ion	Ratio	Lower	Upper
39	100		
54	2.5	54.5	81.7#



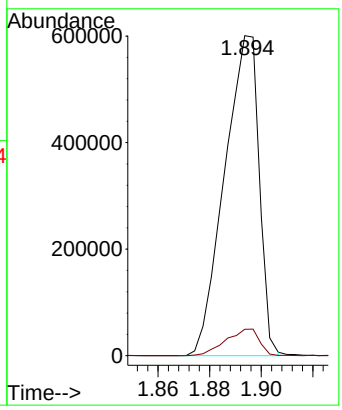


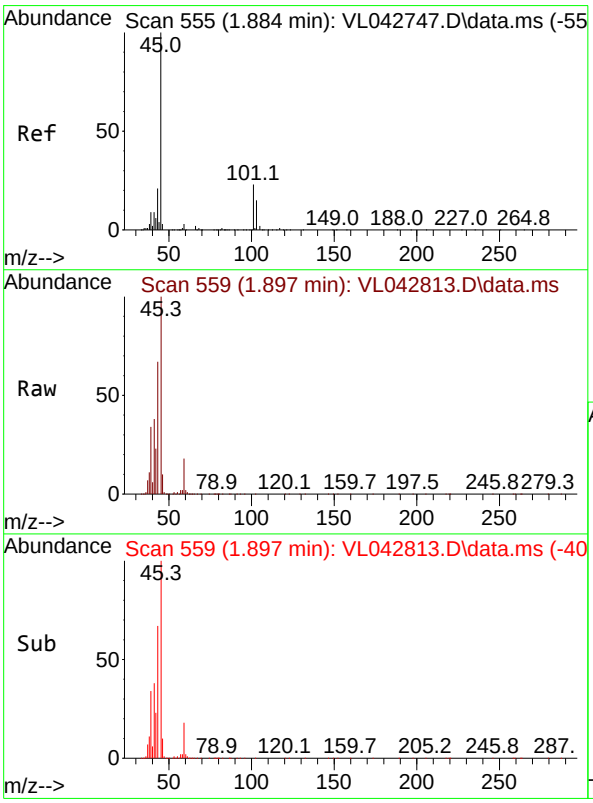
#17
tert-Butyl alcohol
Concen: 30.691 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.146 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Tgt Ion: 59 Resp: 559405

Ion	Ratio	Lower	Upper
59	100		
57	8.2	8.3	12.5#

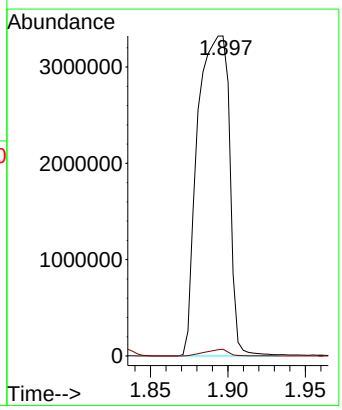


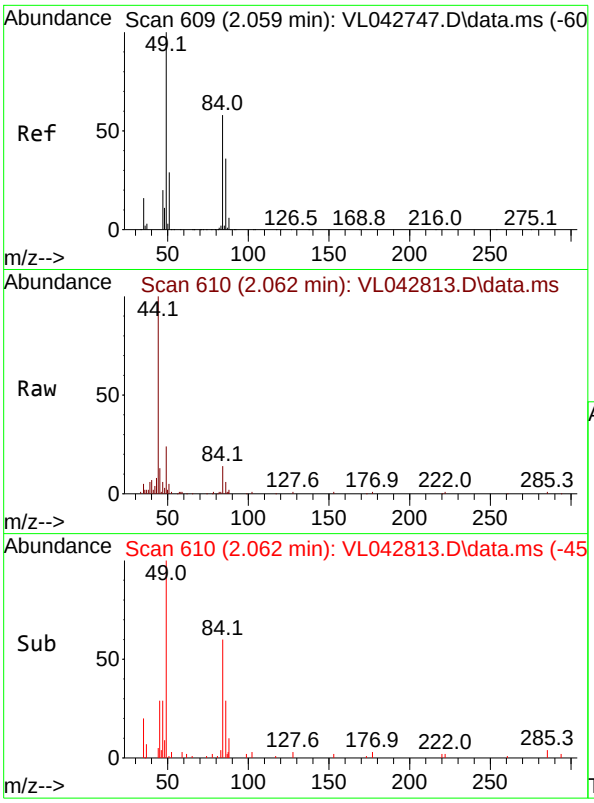


#19
Isopropyl Alcohol
Concen: 439.534 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.013 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 45 Resp: 4720366

Ion	Ratio	Lower	Upper
45	100		
58	1.6	30.0	45.0#



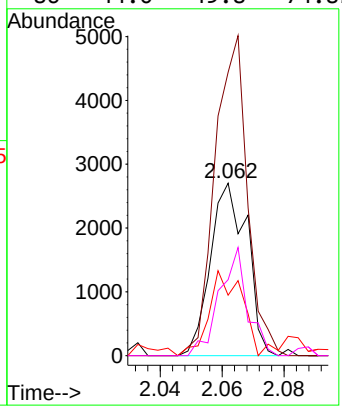


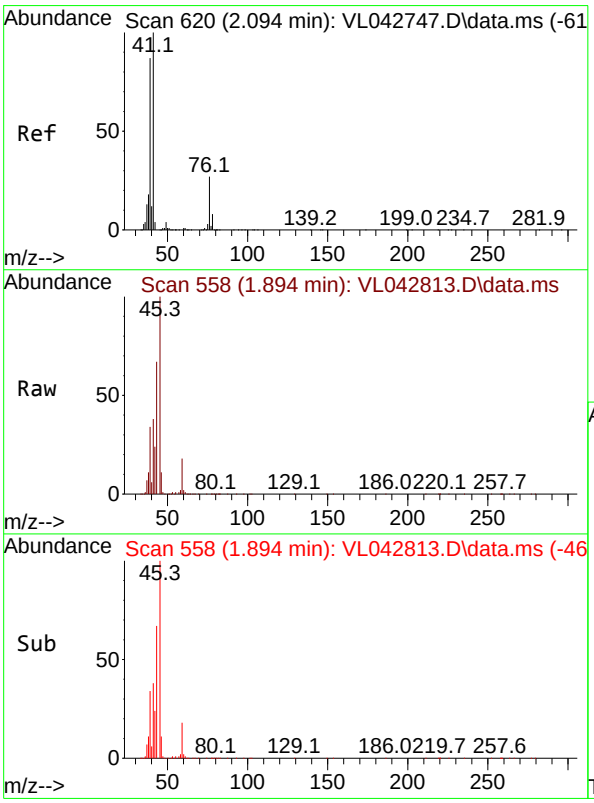
#20
Methylene Chloride
Concen: 0.349 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Tgt Ion: 84 Resp: 2222

Ion	Ratio	Lower	Upper
84	100		
49	164.3	138.6	208.0
51	35.0	40.6	61.0#
86	44.0	49.8	74.8#

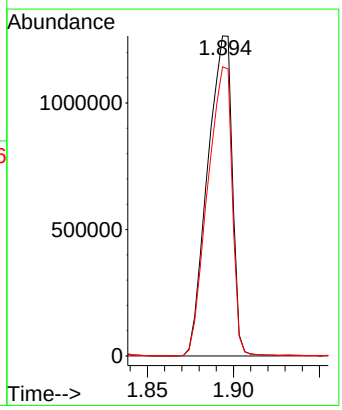


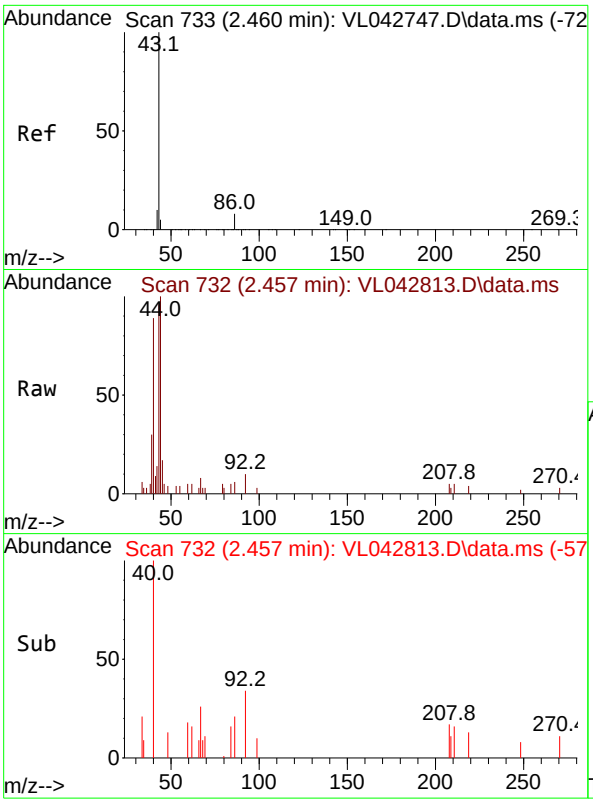


#21
Allyl Chloride
Concen: 101.231 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.201 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 41 Resp: 1260858

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.1	31.7#
39	89.9	68.3	102.5



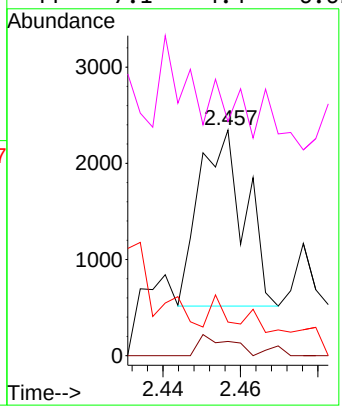


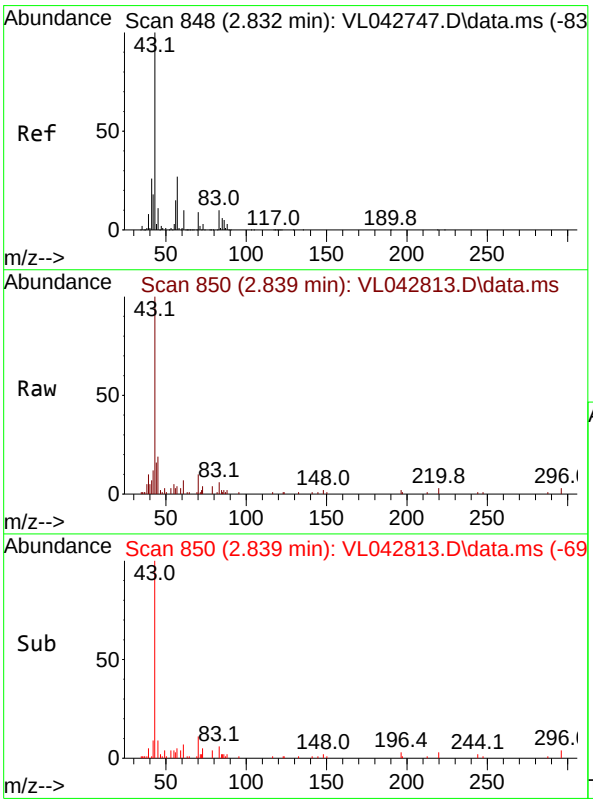
#23
Vinyl Acetate
Concen: 0.061 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Tgt Ion: 43 Resp: 1494

Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.1	9.1
42	4.4	7.8	11.8#
44	7.1	4.4	6.6#

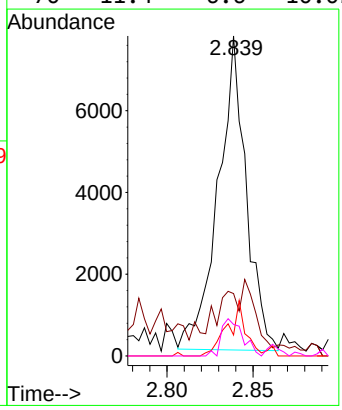


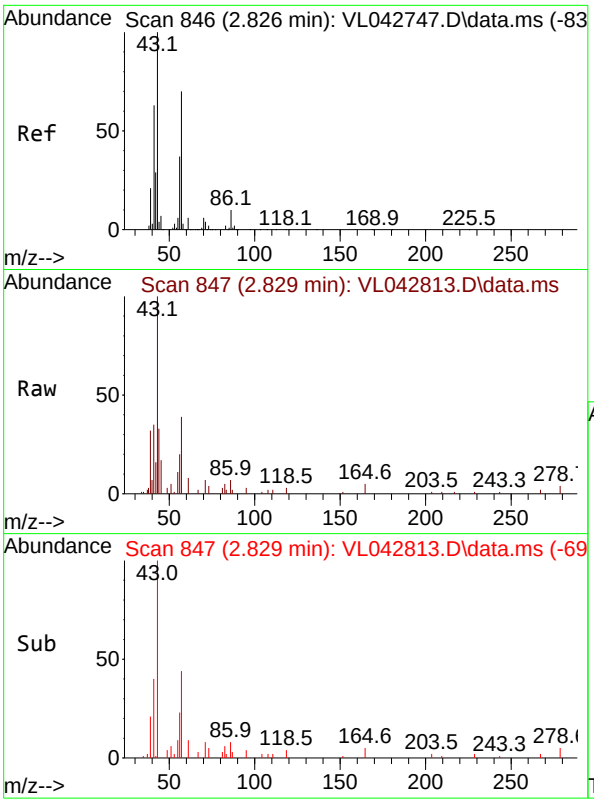


#25
Ethyl Acetate
Concen: 0.195 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.006 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 43 Resp: 8734

Ion	Ratio	Lower	Upper
43	100		
45	52.0	7.8	11.6#
61	12.1	6.7	10.1#
70	11.4	6.6	10.0#



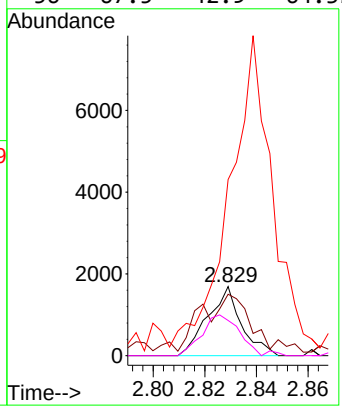


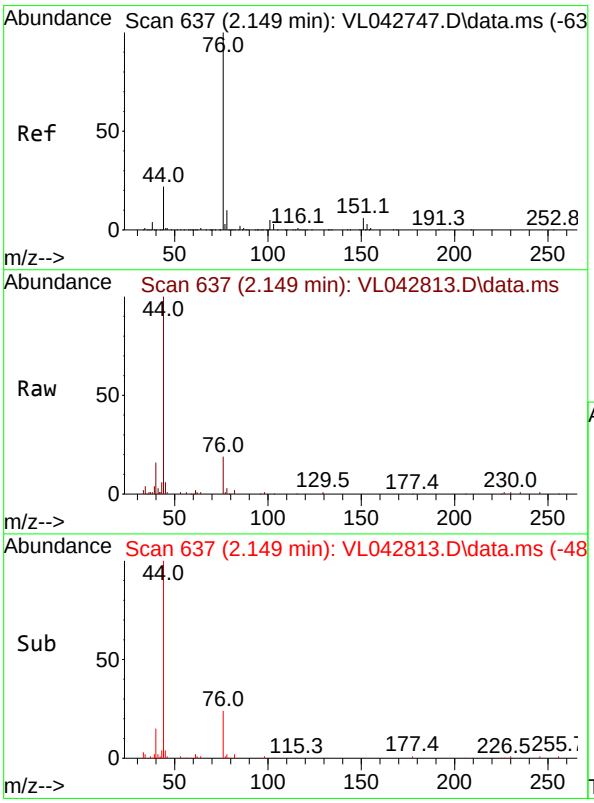
#26
Hexane
Concen: 0.078 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Tgt Ion: 57 Resp: 1525

Ion	Ratio	Lower	Upper
57	100		
41	155.0	75.4	113.2#
43	685.2	185.0	277.6#
56	67.5	42.9	64.3#

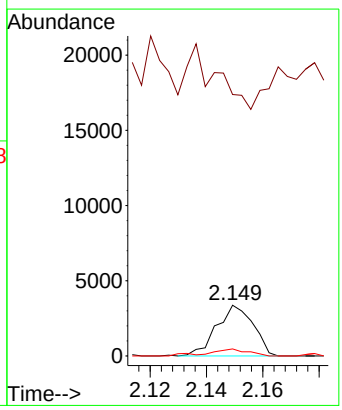


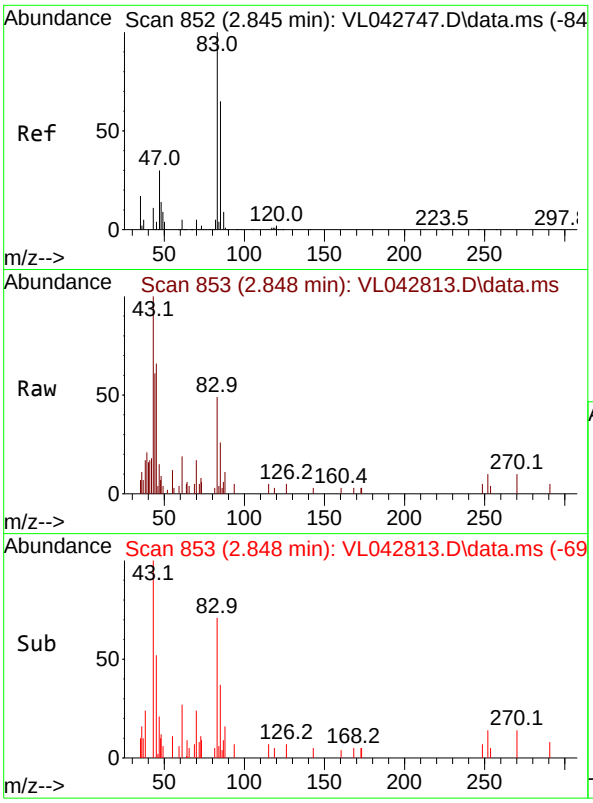


#27
Carbon Disulfide
Concen: 0.181 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.000 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 76 Resp: 3045

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	16.5	9.9	14.9#



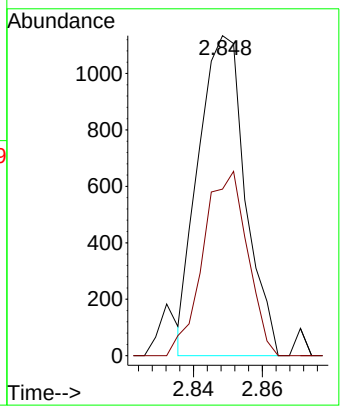


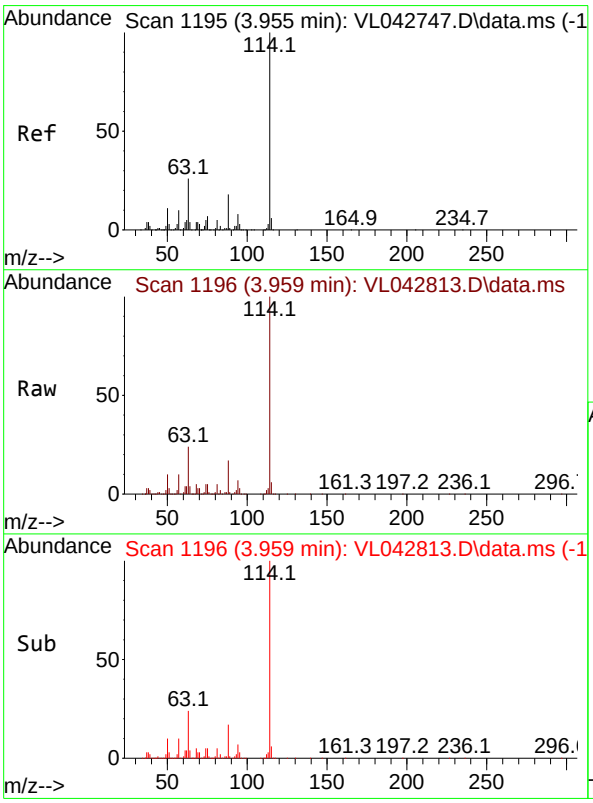
#29
Chloroform
Concen: 0.035 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Tgt Ion: 83 Resp: 1075

Ion	Ratio	Lower	Upper
83	100		
85	52.0	52.2	78.2#

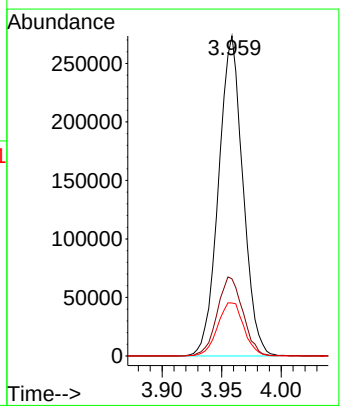


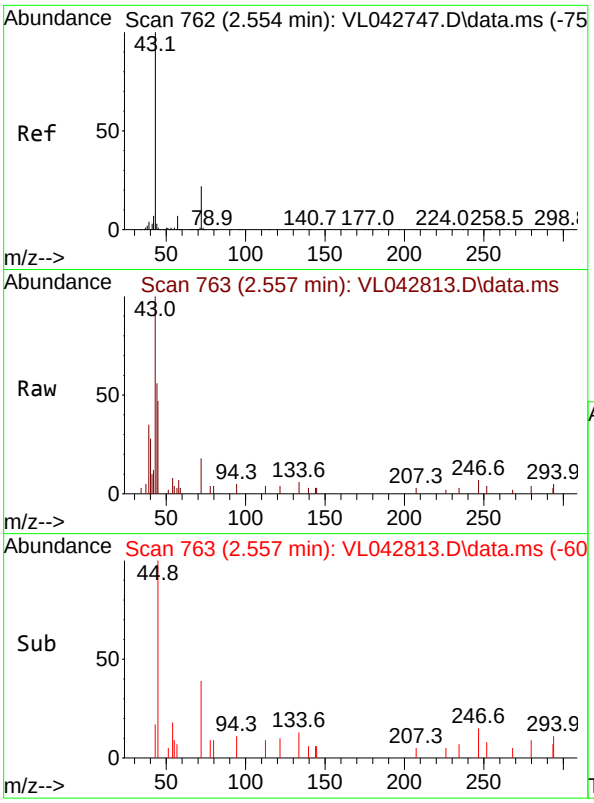


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion:114 Resp: 388590

Ion	Ratio	Lower	Upper
114	100		
63	26.0	20.5	30.7
88	17.9	14.0	21.0



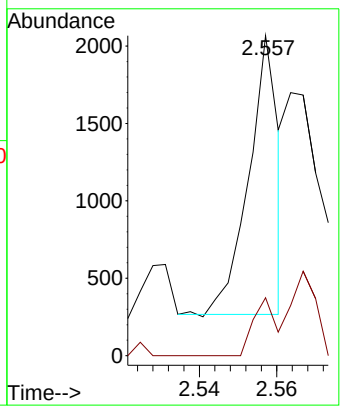


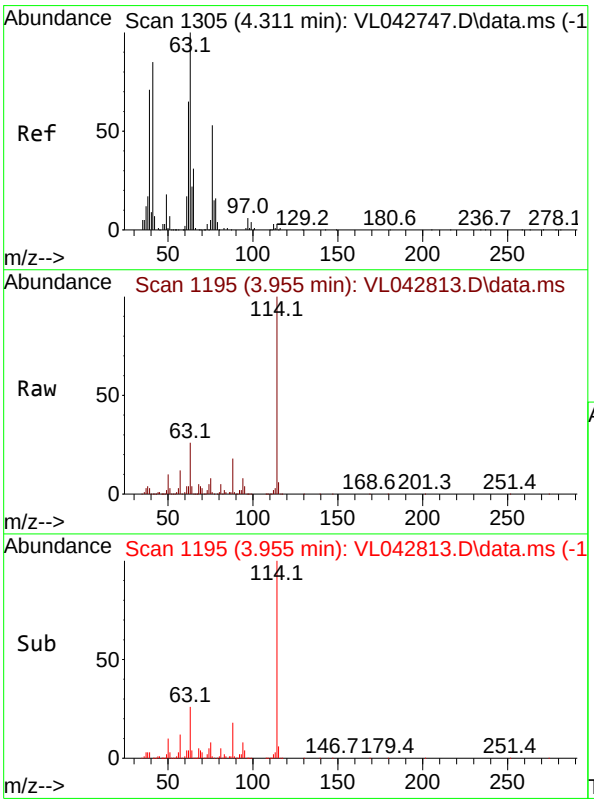
#34
2-Butanone
Concen: 0.035 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Tgt Ion: 43 Resp: 956

Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.4	26.0#

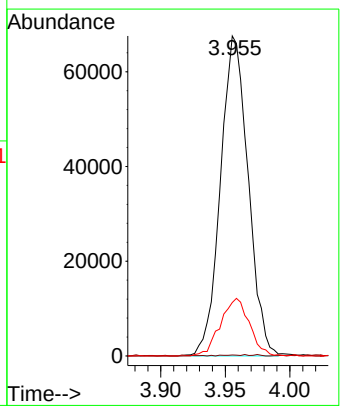


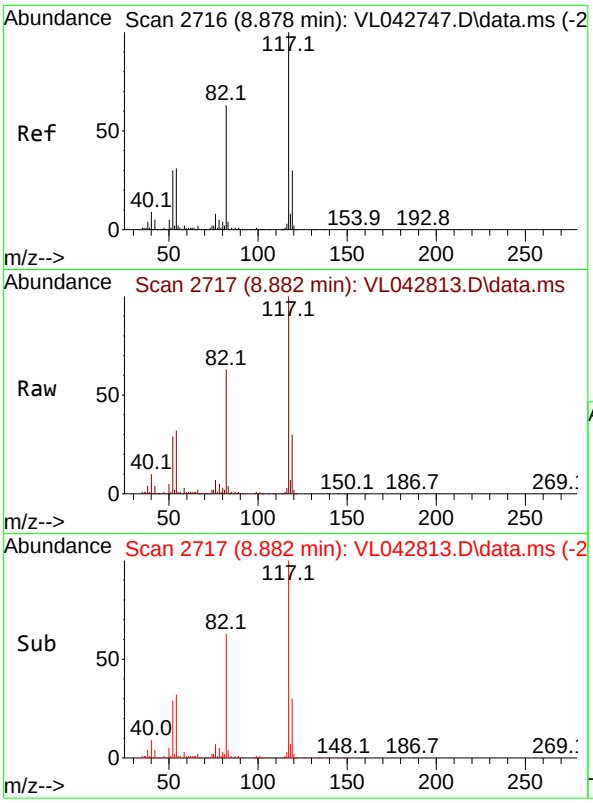


#39
1,2-Dichloropropane
Concen: 7.413 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 63 Resp: 100773

Ion	Ratio	Lower	Upper
63	100		
41	0.3	68.2	102.4#
62	16.7	52.0	78.0#



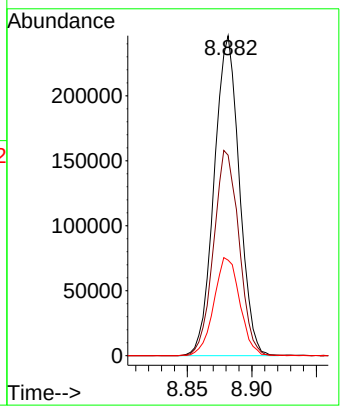


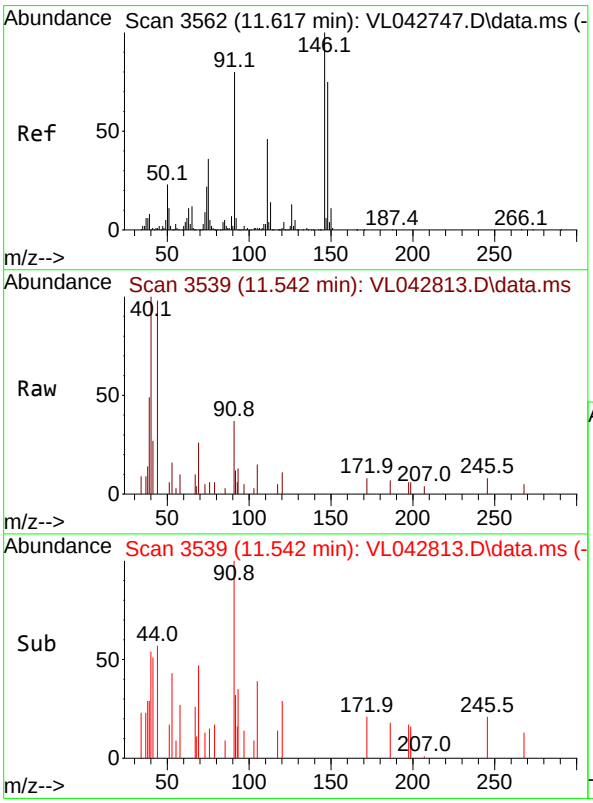
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Tgt Ion:117 Resp: 332901

Ion	Ratio	Lower	Upper
117	100		
82	64.8	53.3	79.9
119	31.7	25.8	38.6

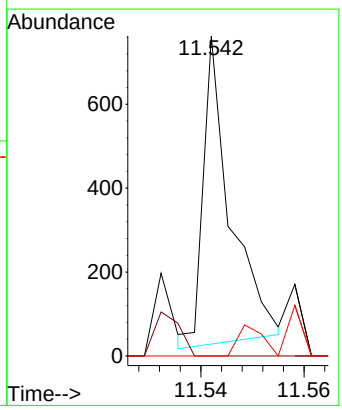


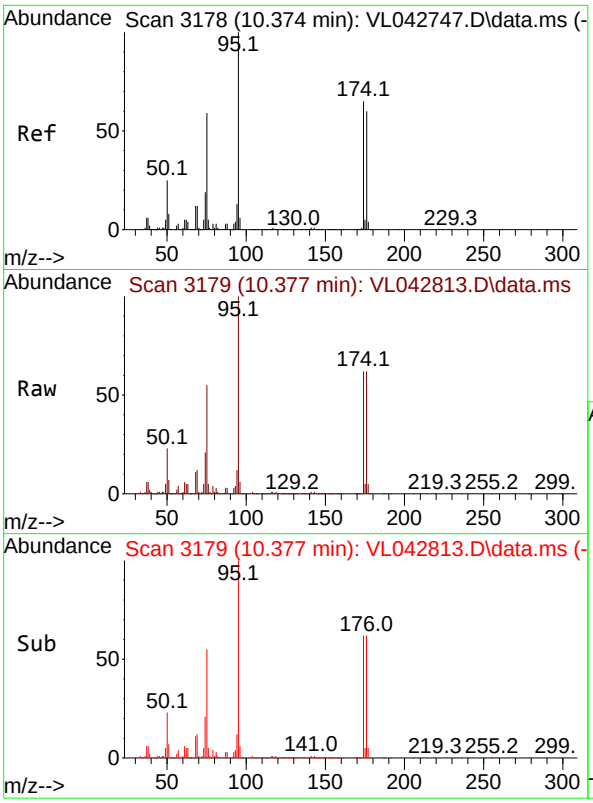


#66
Benzyl Chloride
Concen: 0.059 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.075 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion: 91 Resp: 268

Ion	Ratio	Lower	Upper
91	100		
126	26.9	14.4	21.6#
128	17.9	5.2	7.8#



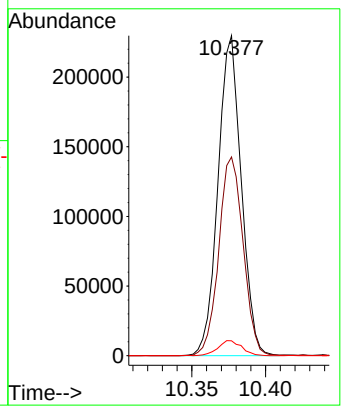


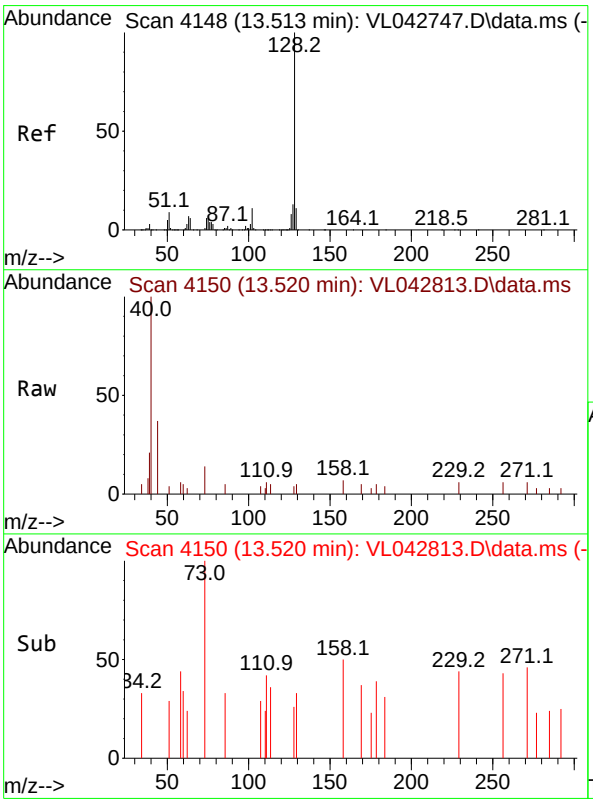
#68
1-Bromo-4-Fluorobenzene
Concen: 9.567 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Tgt Ion: 95 Resp: 252224

Ion	Ratio	Lower	Upper
95	100		
174	65.1	53.8	80.6
175	4.8	4.0	6.0

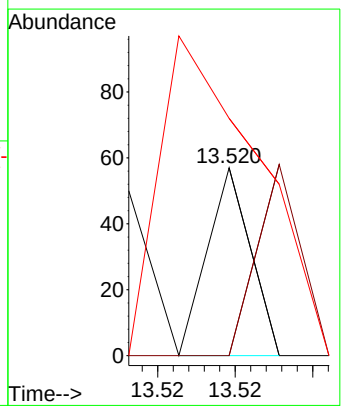


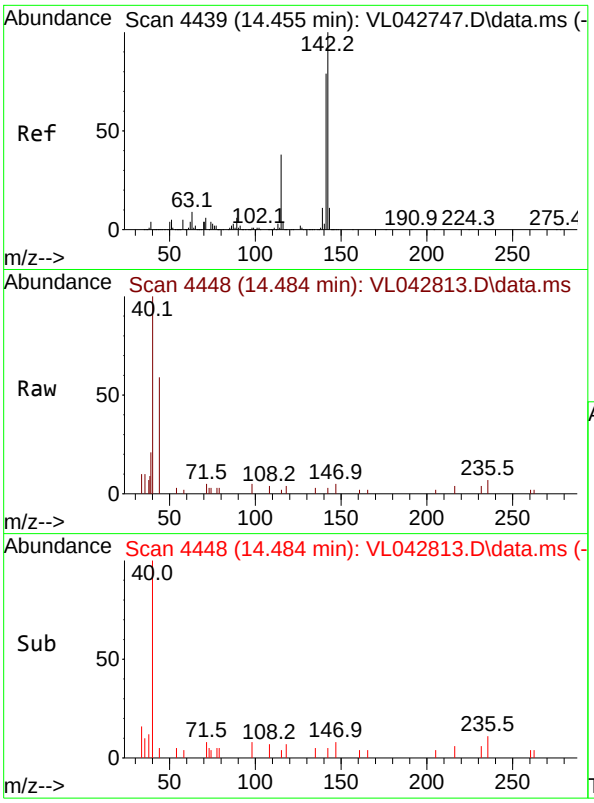


#79
Naphthalene
Concen: 0.435 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.006 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion:128 Resp: 11

Ion	Ratio	Lower	Upper
128	100		
127	100.0	10.5	15.7#
129	35.1	8.6	13.0#



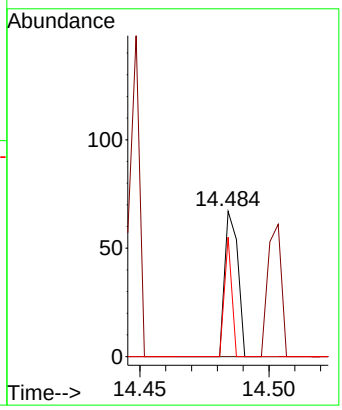


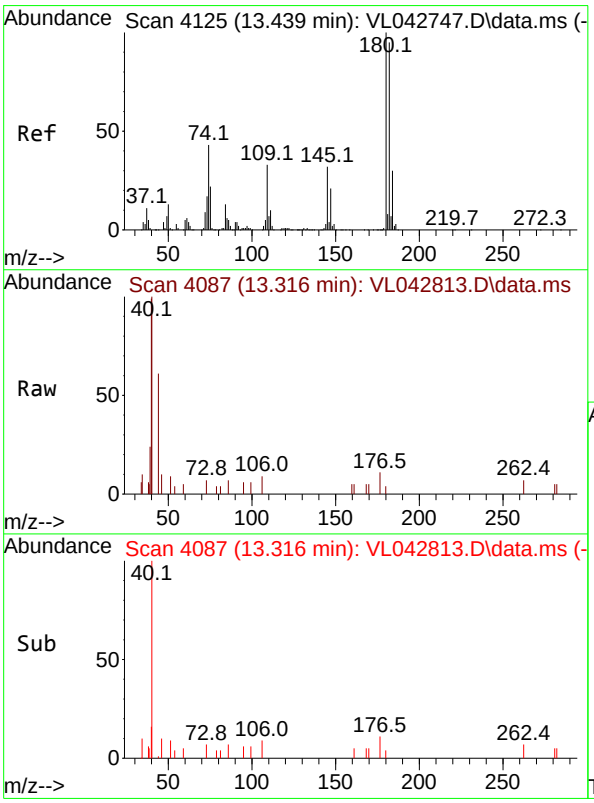
#80
Naphthalene,2-methyl-
Concen: 1.129 ppbv
RT: 14.484 min Scan# 44
Delta R.T. 0.029 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4DL

Tgt Ion:142 Resp: 23

Ion	Ratio	Lower	Upper
142	100		
141	95.7	65.8	98.8
115	47.8	31.2	46.8#

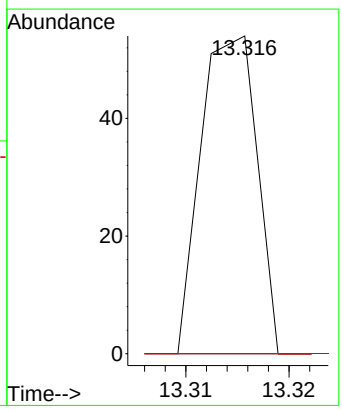




#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.316 min Scan# 4087
Delta R.T. -0.123 min
Lab File: VL042813.D
Acq: 04 Aug 2025 19:41

Tgt Ion:180 Resp: 20

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	0.0	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042814.D
Acq On : 04 Aug 2025 20:15
Operator : SY/MD
Sample : Q2750-04DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Quant Time: Aug 05 01:12:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	161216	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	428986	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	375205	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	323539	10.888	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 108.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	12445	0.584	ppbv		89
3) Chlorodifluoromethane	1.473	51	1470625	52.963	ppbv	#	87
4) Chloromethane	1.531	50	5419	0.628	ppbv		89
5) Vinyl Chloride	1.486	62	1255	0.147	ppbv	#	44
6) Bromomethane	1.654	94	76	0.023	ppbv	#	68
7) Chloroethane	1.654	64	257	0.078	ppbv	#	70
8) Dichlorotetrafluoroethane	1.496	85	12445	0.710	ppbv	#	21
9) Propene	1.557	41	441109	43.710	ppbv		98
10) Heptane	4.982	43	1611	0.059	ppbv	#	27
11) Trichlorofluoromethane	1.878	101	4709	0.214	ppbv		90
12) 1,1,2-Trichlorotrifluo...	2.137	101	1342	0.080	ppbv		86
13) Ethanol	1.729	45	4021580	5471.839	ppbv		92
15) Acetone	1.835	43	2026354	91.025	ppbv	#	84
16) 1,3-Butadiene	1.557	39	210764	22.196	ppbv	#	16
17) tert-Butyl alcohol	1.984	59	7431535	370.142	ppbv		96
19) Isopropyl Alcohol	1.984	45	24131679	2039.875	ppbv	#	38
20) Methylene Chloride	2.062	84	52828	7.530	ppbv		94
21) Allyl Chloride	1.984	41	12177895	887.600	ppbv	#	79
23) Vinyl Acetate	2.567	43	31136	1.154	ppbv	#	90
24) 1,1-Dichloroethane	2.784	63	976	0.059	ppbv	#	87
25) Ethyl Acetate	2.842	43	276179	5.605	ppbv	#	82
26) Hexane	2.826	57	111667	5.166	ppbv		84
27) Carbon Disulfide	2.146	76	47924	2.590	ppbv	#	66
28) Methyl tert-Butyl Ether	2.441	73	322	0.032	ppbv	#	50
29) Chloroform	2.852	83	17868	0.535	ppbv		98
30) Cyclohexane	3.852	84	801	0.044	ppbv	#	1
31) cis-1,2-Dichloroethene	2.839	61	22549	1.015	ppbv	#	23
34) 2-Butanone	2.567	43	31136	1.025	ppbv		99
35) Carbon Tetrachloride	3.758	117	1251	0.039	ppbv	#	59
36) Benzene	3.658	78	10752	0.264	ppbv	#	93
39) 1,2-Dichloropropane	3.955	63	110352	7.353	ppbv	#	20
41) Tetrahydrofuran	3.069	42	1354	0.088	ppbv	#	53
42) Bromodichloromethane	4.483	83	921	0.029	ppbv	#	80
43) Methyl Methacrylate	4.878	69	997	0.069	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.645	57	2329	0.035	ppbv	#	7
53) Toluene	6.933	91	27249	0.624	ppbv		97
58) Ethyl Benzene	9.357	91	3436	0.058	ppbv	#	80
59) m/p-Xylene	9.548	91	2404	0.051	ppbv	#	30
60) o-Xylene	9.963	91	2831	0.060	ppbv		98
61) Styrene	9.872	104	2187	0.110	ppbv	#	50
65) tert-Butylbenzene	11.542	119	3723	0.060	ppbv	#	1
66) Benzyl Chloride	11.542	91	12506	2.457	ppbv	#	66
69) p-Isopropyltoluene	11.924	119	38819	0.540	ppbv		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042814.D
Acq On : 04 Aug 2025 20:15
Operator : SY/MD
Sample : Q2750-04DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Quant Time: Aug 05 01:12:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	12.345	91	14675	0.211	ppbv #	86
71) 2-Chlorotoluene	10.859	91	63332	1.183	ppbv #	45
72) 4-Ethyltoluene	11.125	105	1995	0.035	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.209	105	1052	0.023	ppbv #	79
76) 1,4-Dichlorobenzene	11.678	146	781	0.022	ppbv #	1
79) Naphthalene	13.513	128	2069	0.471	ppbv #	87
80) Naphthalene,2-methyl-	14.497	142	57	1.130	ppbv #	1
81) 1,2,4-Trichlorobenzene	13.449	180	37	0.436	ppbv #	1

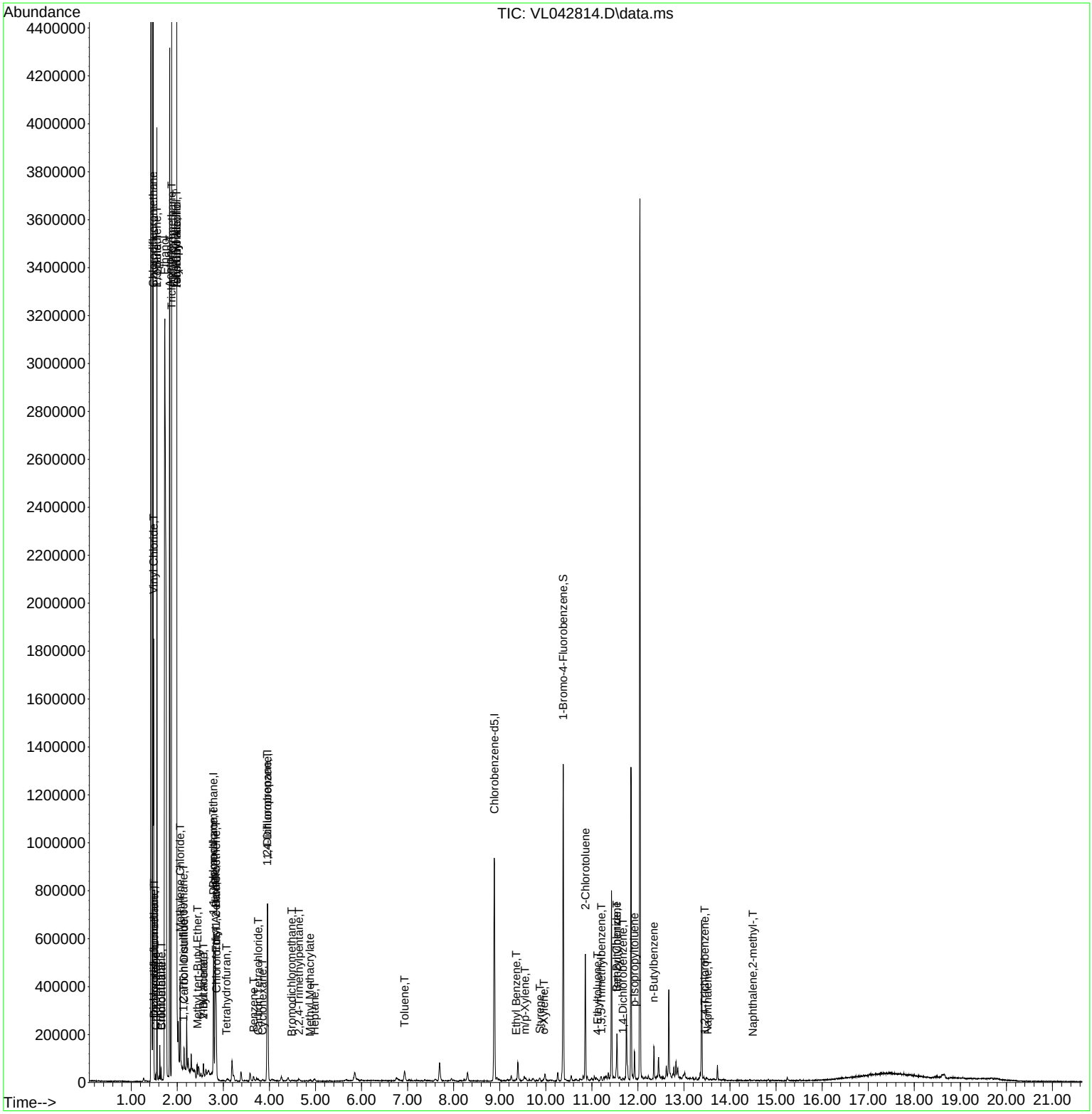
(#) = qualifier out of range (m) = manual integration (+) = signals summed

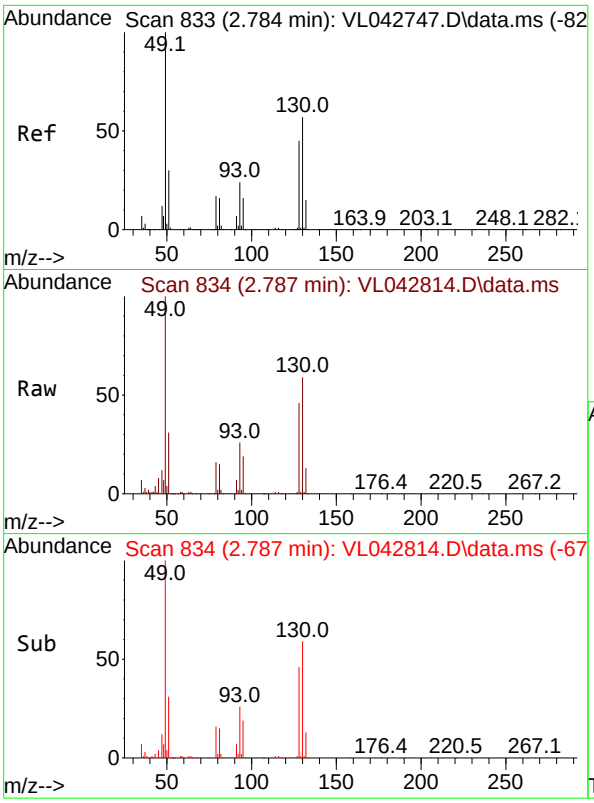
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042814.D
Acq On : 04 Aug 2025 20:15
Operator : SY/MD
Sample : Q2750-04DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Quant Time: Aug 05 01:12:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



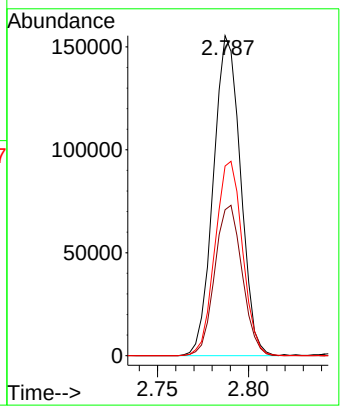


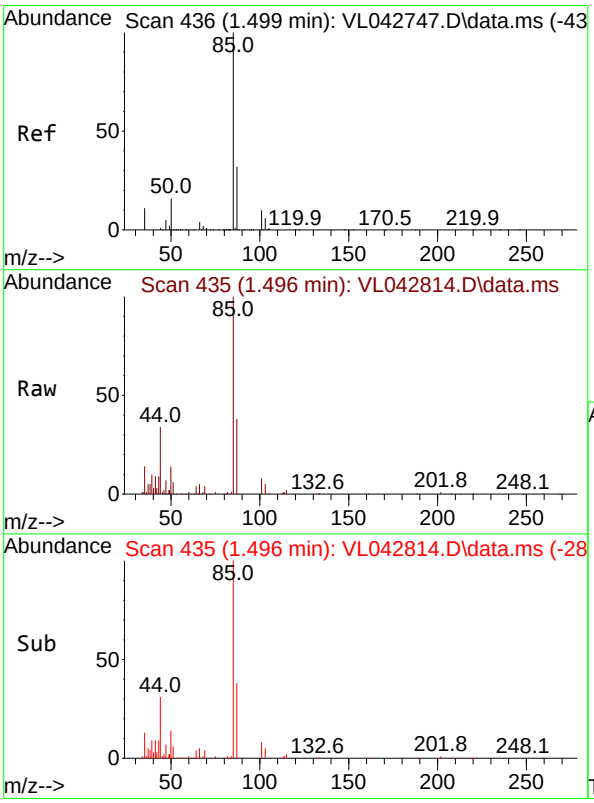
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 49 Resp: 161216

Ion	Ratio	Lower	Upper
49	100		
128	47.3	23.6	71.0
130	61.4	30.3	90.8

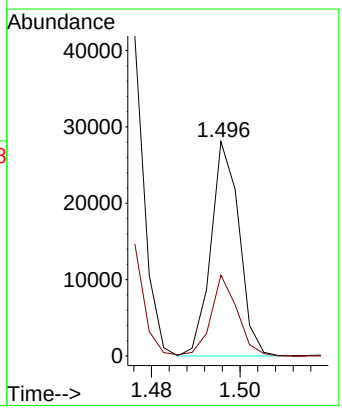


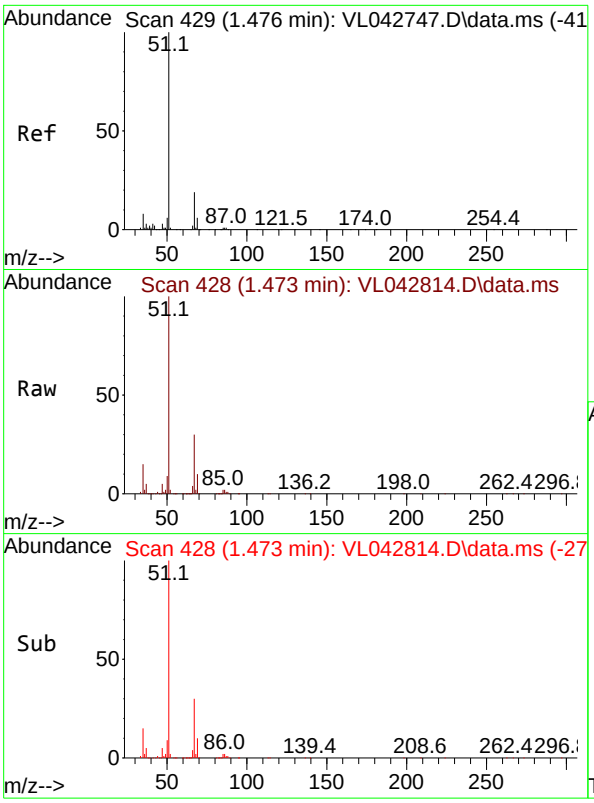


#2
Dichlorodifluoromethane
Concen: 0.584 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 85 Resp: 12445

Ion	Ratio	Lower	Upper
85	100		
87	37.7	25.4	38.2



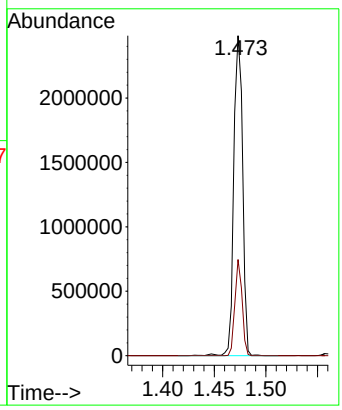


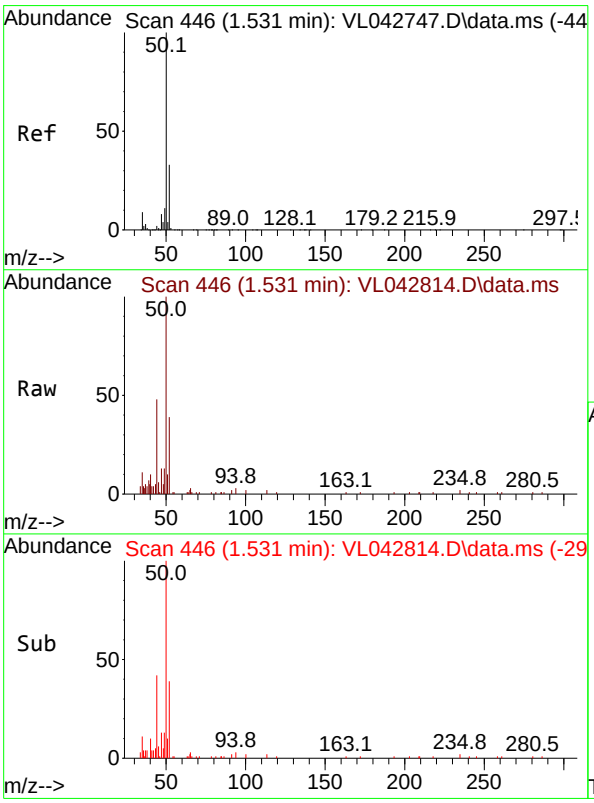
#3
Chlorodifluoromethane
Concen: 52.963 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 51 Resp: 1470625

Ion	Ratio	Lower	Upper
51	100		
67	24.5	15.0	22.6#

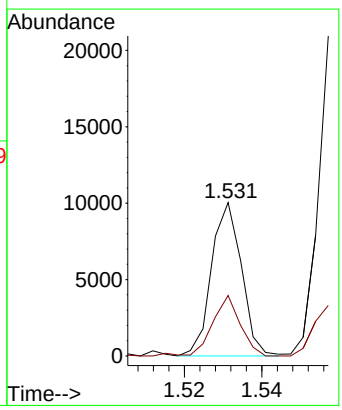


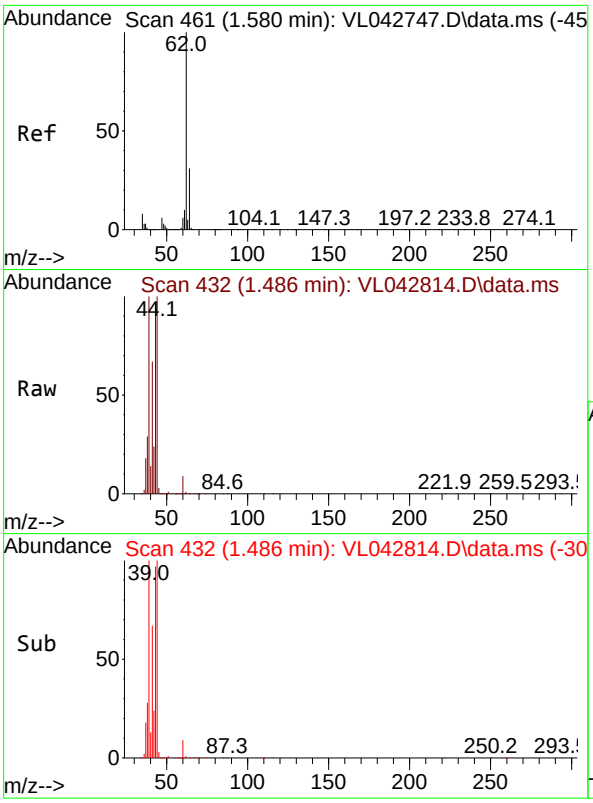


#4
Chloromethane
Concen: 0.628 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 50 Resp: 5419

Ion	Ratio	Lower	Upper
50	100		
52	39.4	26.6	40.0



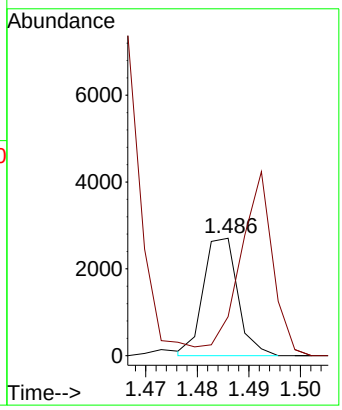


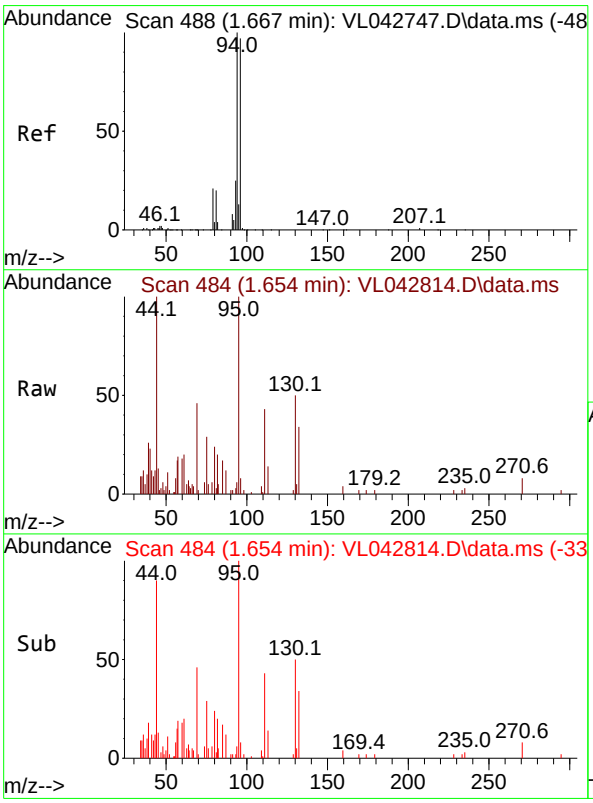
#5
Vinyl Chloride
Concen: 0.147 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.094 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 62 Resp: 1255

Ion	Ratio	Lower	Upper
62	100		
64	0.0	24.5	36.7#

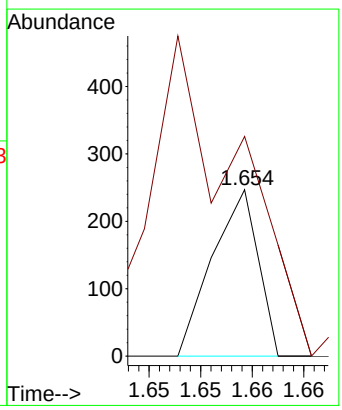


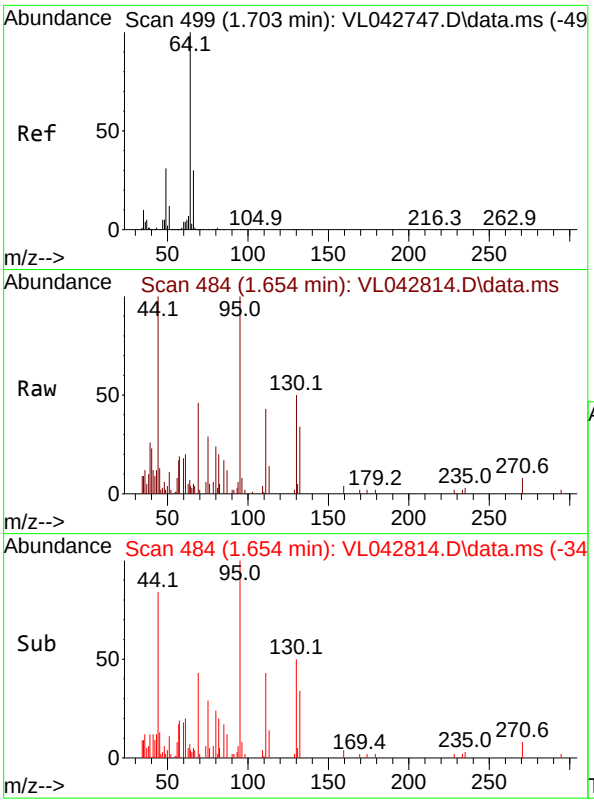


#6
Bromomethane
Concen: 0.023 ppbv
RT: 1.654 min Scan# 484
Delta R.T. -0.013 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 94 Resp: 76

Ion	Ratio	Lower	Upper
94	100		
96	65.2	77.6	116.4#



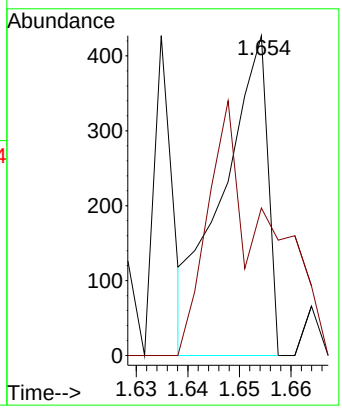


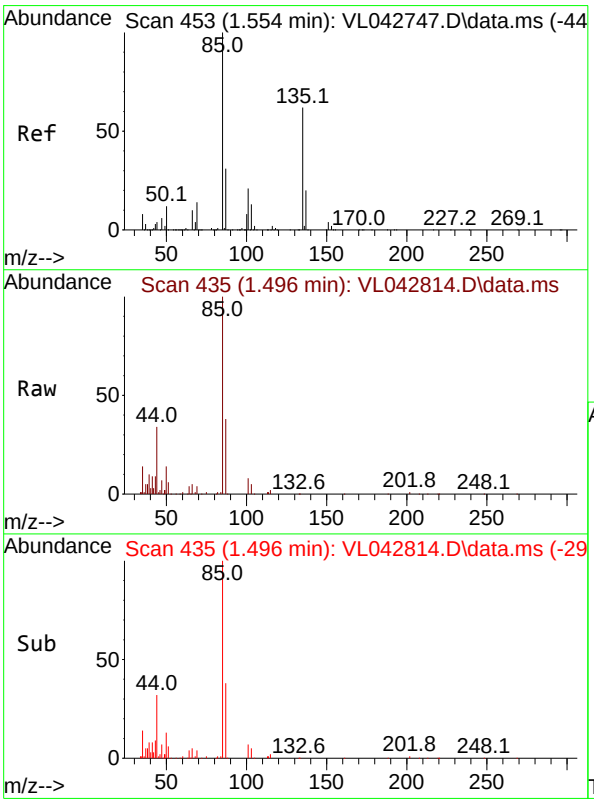
#7
Chloroethane
Concen: 0.078 ppbv
RT: 1.654 min Scan# 4
Delta R.T. -0.048 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 64 Resp: 257

Ion	Ratio	Lower	Upper
64	100		
66	46.1	24.1	36.1#

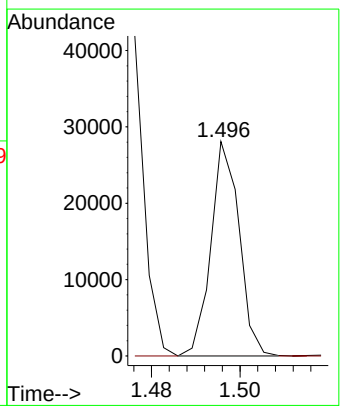


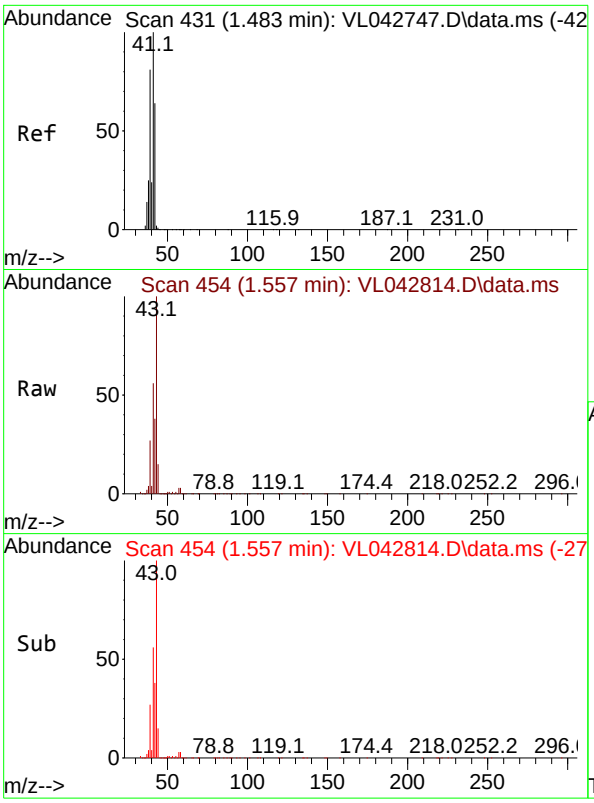


#8
Dichlorotetrafluoroethane
Concen: 0.710 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.058 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 85 Resp: 12445

Ion	Ratio	Lower	Upper
85	100		
135	1.9	50.6	76.0#



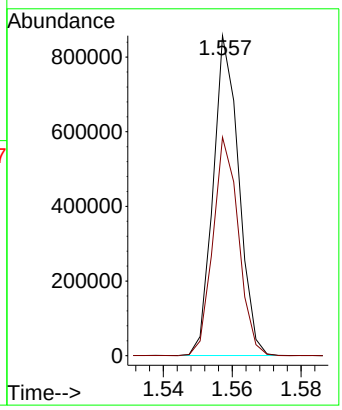


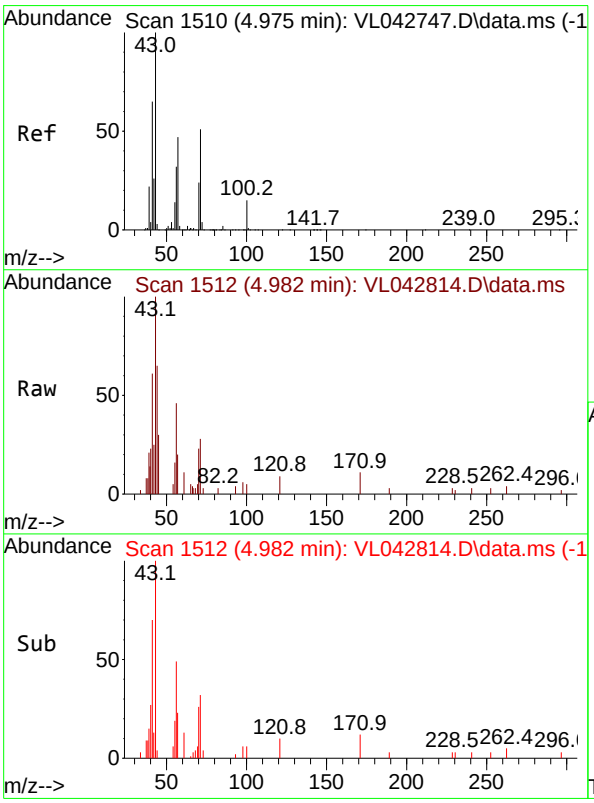
#9
Propene
Concen: 43.710 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.074 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 41 Resp: 441109

Ion	Ratio	Lower	Upper
41	100		
42	68.3	53.2	79.8

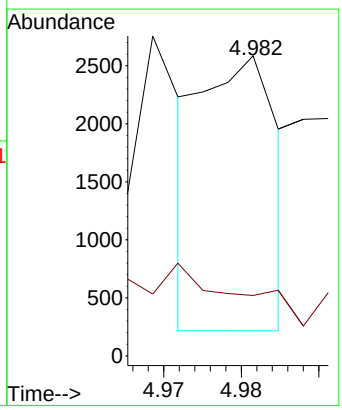


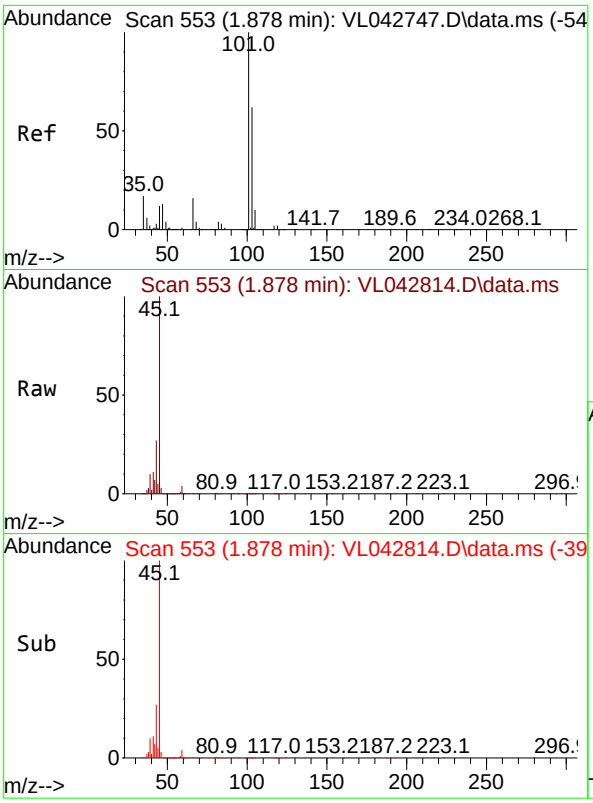


#10
Heptane
Concen: 0.059 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.007 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 43 Resp: 1611

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.9	59.9#



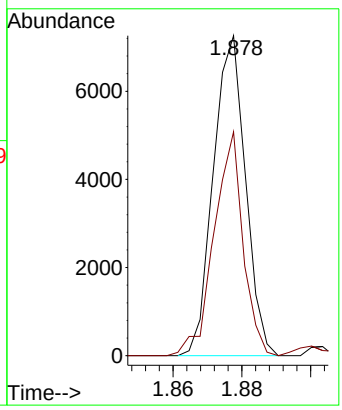


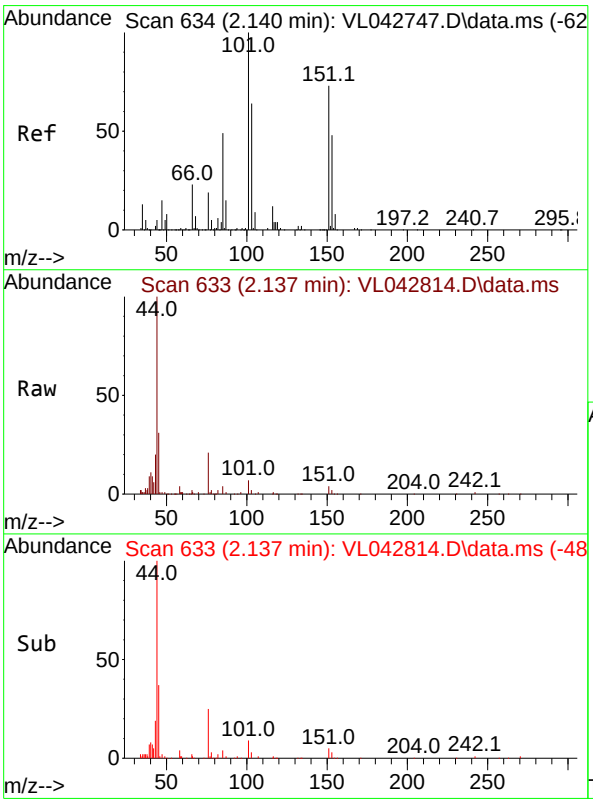
#11
Trichlorofluoromethane
Concen: 0.214 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion:101 Resp: 4709

Ion	Ratio	Lower	Upper
101	100		
103	70.0	49.6	74.4

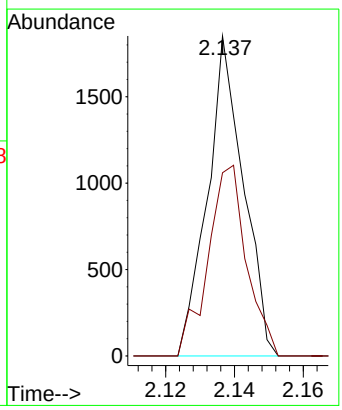


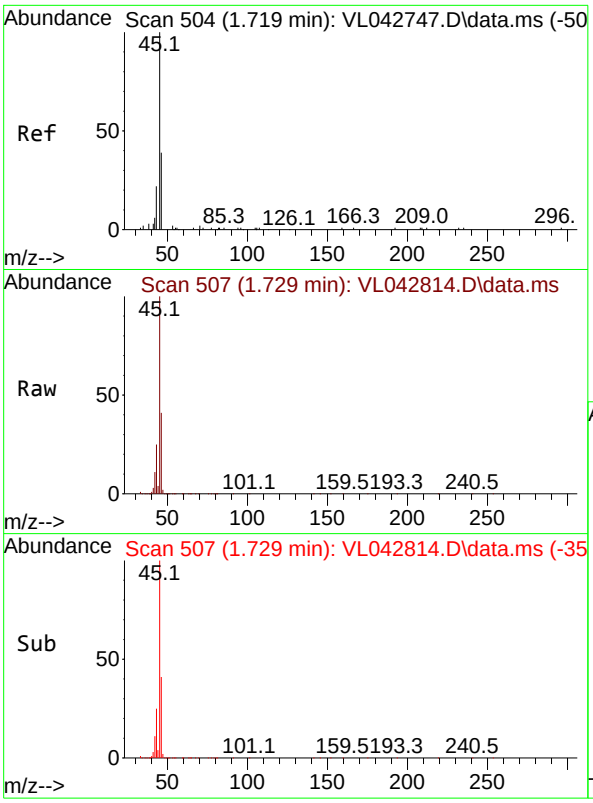


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.080 ppbv
RT: 2.137 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:101 Resp: 1342

Ion	Ratio	Lower	Upper
101	100		
151	64.0	60.5	90.7



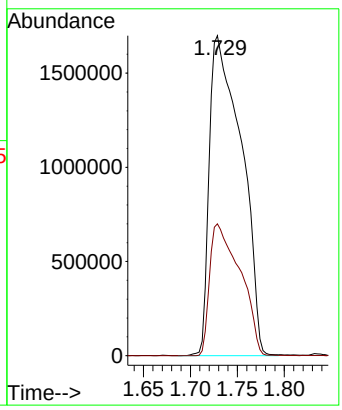


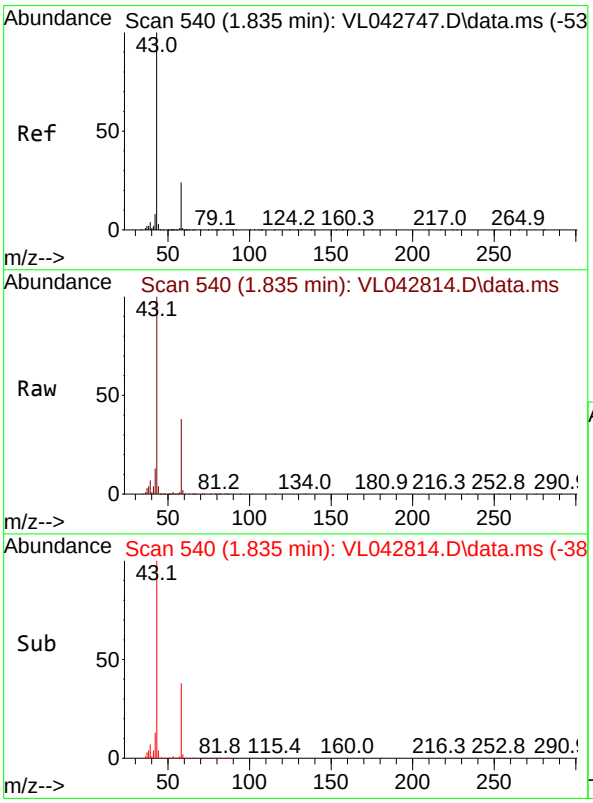
#13
Ethanol
Concen: 5471.839 ppbv
RT: 1.729 min Scan# 5
Delta R.T. 0.010 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 45 Resp: 4021580

Ion	Ratio	Lower	Upper
45	100		
46	39.4	17.8	71.4

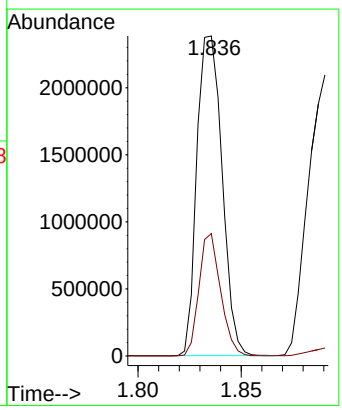


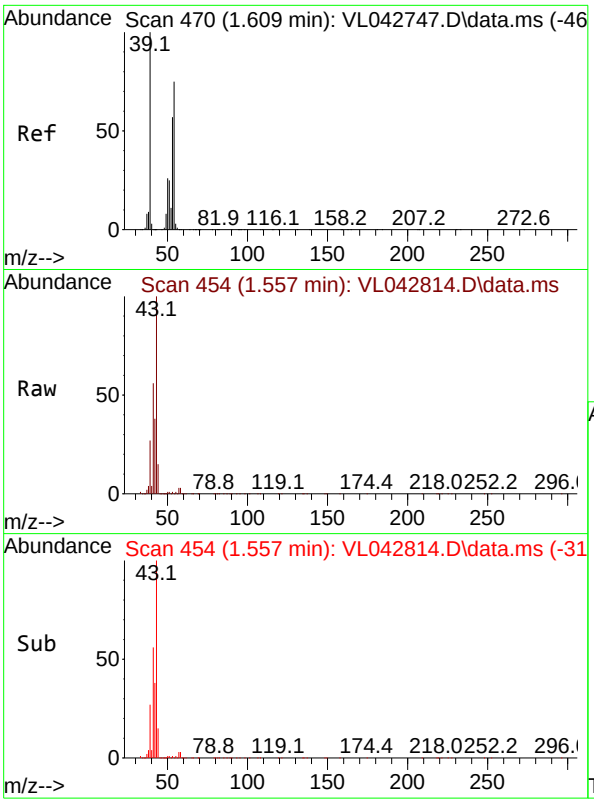


#15
Acetone
Concen: 91.025 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 43 Resp: 2026354

Ion	Ratio	Lower	Upper
43	100		
58	32.9	19.8	29.8#



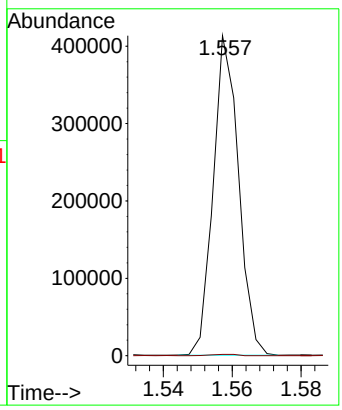


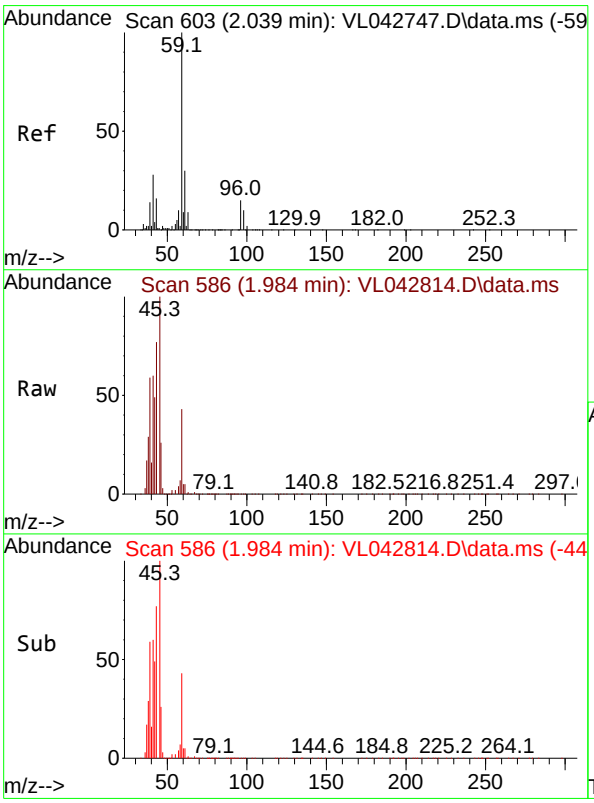
#16
1,3-Butadiene
Concen: 22.196 ppbv
RT: 1.557 min Scan# 4
Delta R.T. -0.052 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 39 Resp: 210764

Ion	Ratio	Lower	Upper
39	100		
54	0.5	54.5	81.7#

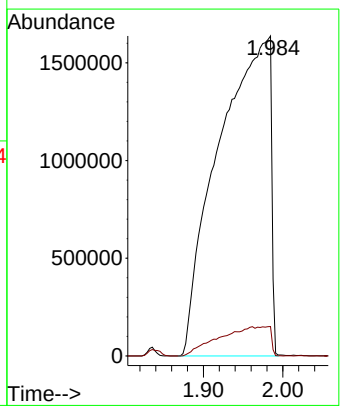


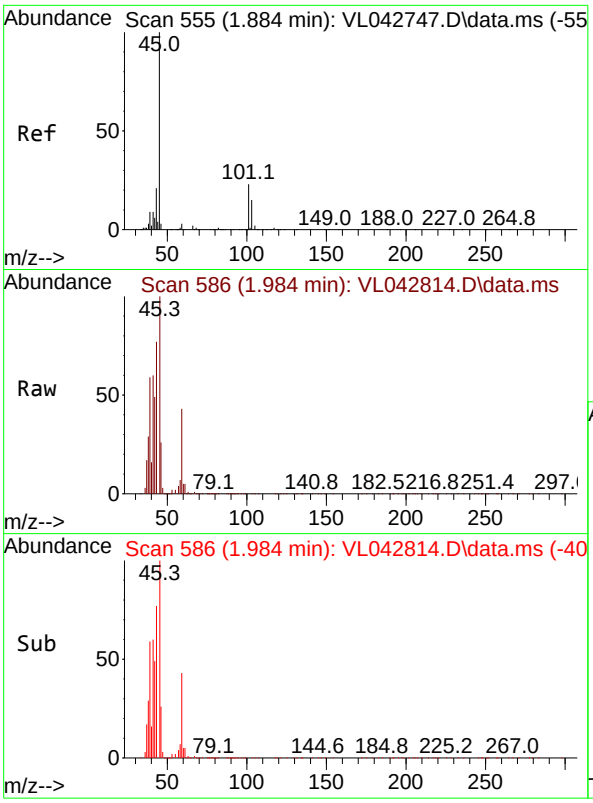


#17
tert-Butyl alcohol
Concen: 370.142 ppbv
RT: 1.984 min Scan# 586
Delta R.T. -0.055 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 59 Resp: 7431535

Ion	Ratio	Lower	Upper
59	100		
57	9.0	8.3	12.5



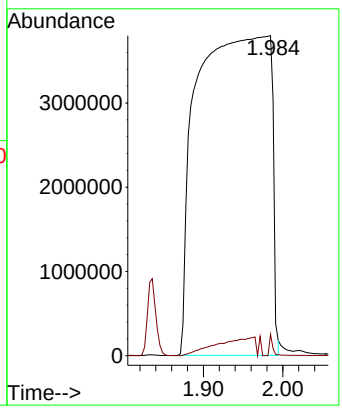


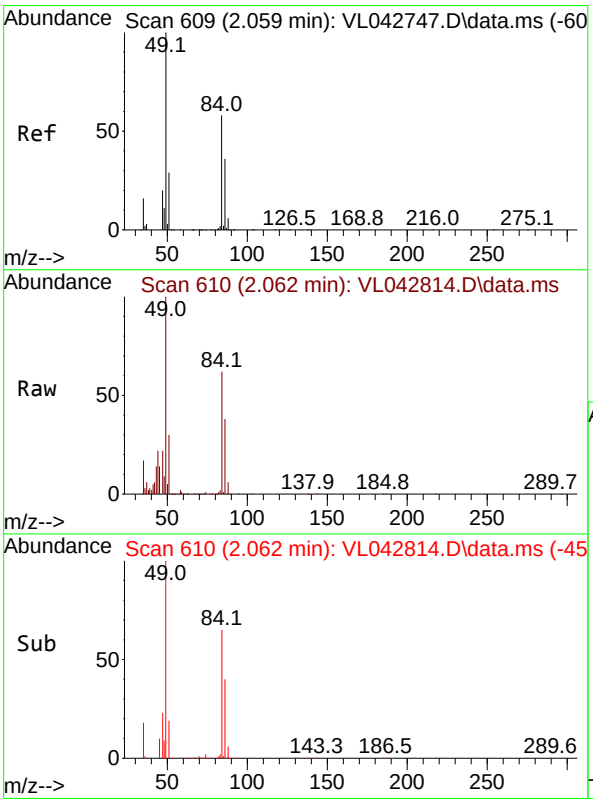
#19
Isopropyl Alcohol
Concen: 2039.875 ppbv
RT: 1.984 min Scan# 5
Delta R.T. 0.100 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 45 Resp:24131679

Ion	Ratio	Lower	Upper
45	100		
58	0.4	30.0	45.0#

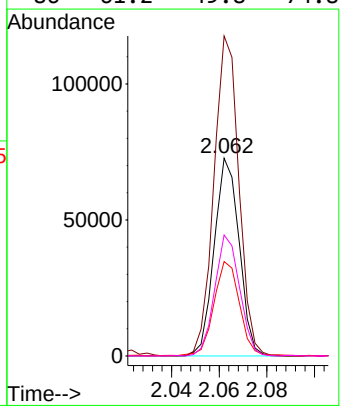


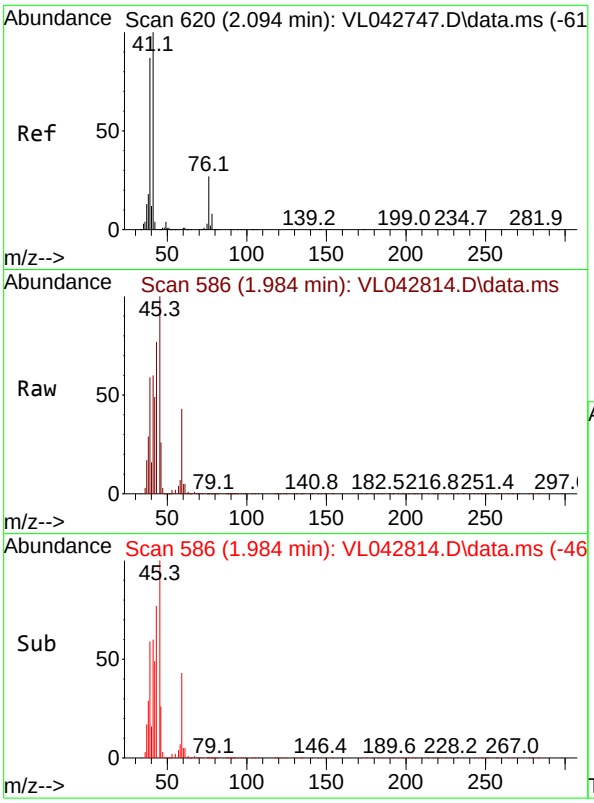


#20
Methylene Chloride
Concen: 7.530 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 84 Resp: 52828

Ion	Ratio	Lower	Upper
84	100		
49	161.7	138.6	208.0
51	47.6	40.6	61.0
86	61.2	49.8	74.8



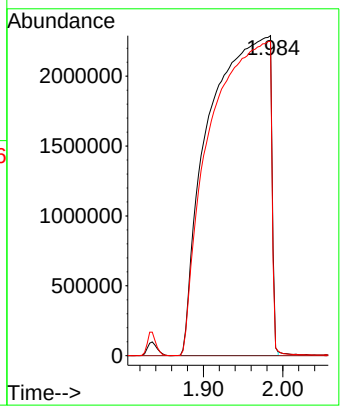


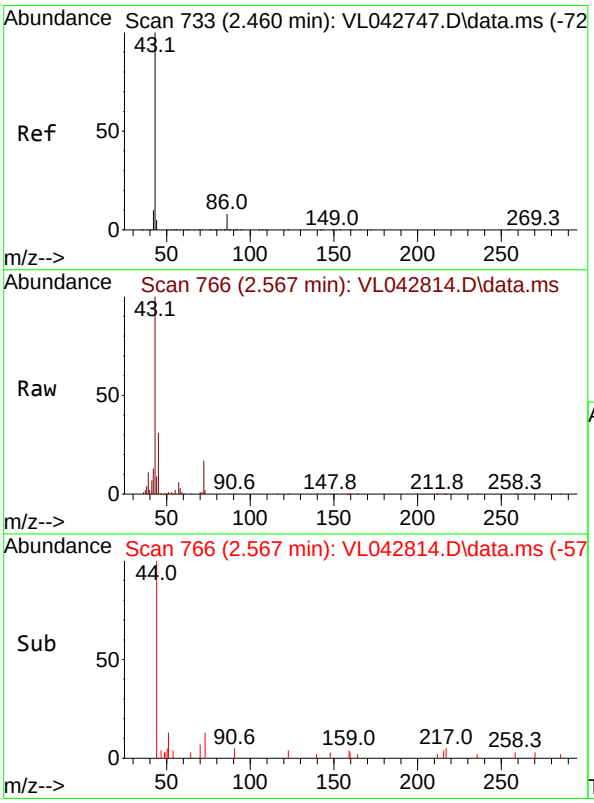
#21
Allyl Chloride
Concen: 887.600 ppbv
RT: 1.984 min Scan# 5
Delta R.T. -0.110 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 41 Resp:12177895

Ion	Ratio	Lower	Upper
41	100		
76	0.4	21.1	31.7#
39	96.6	68.3	102.5

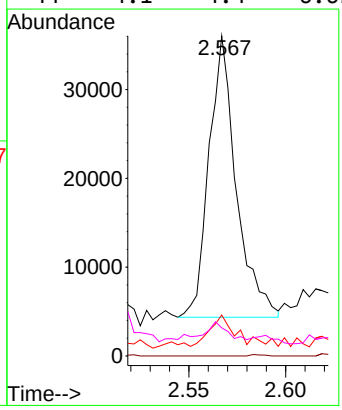


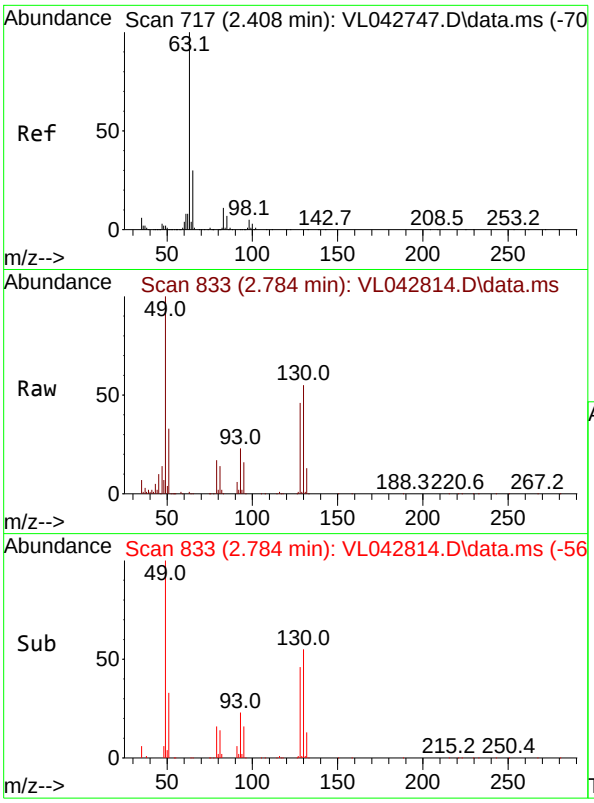


#23
Vinyl Acetate
Concen: 1.154 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.107 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 43 Resp: 31136

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.1	9.1#
42	11.1	7.8	11.8
44	4.1	4.4	6.6#



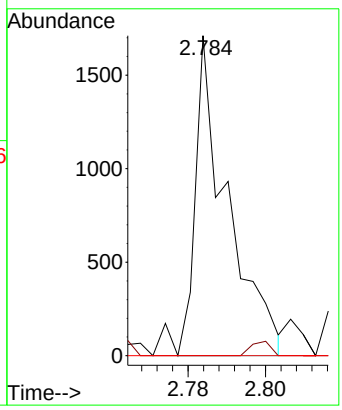


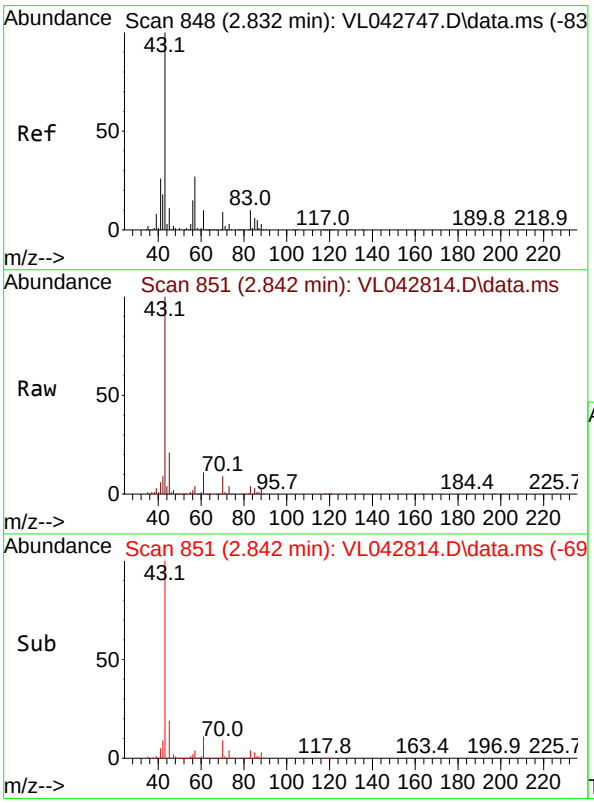
#24
1,1-Dichloroethane
Concen: 0.059 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.376 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 63 Resp: 976

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.5	7.4#
100	0.0	1.6	4.8#

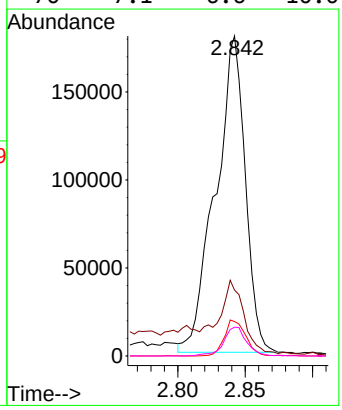


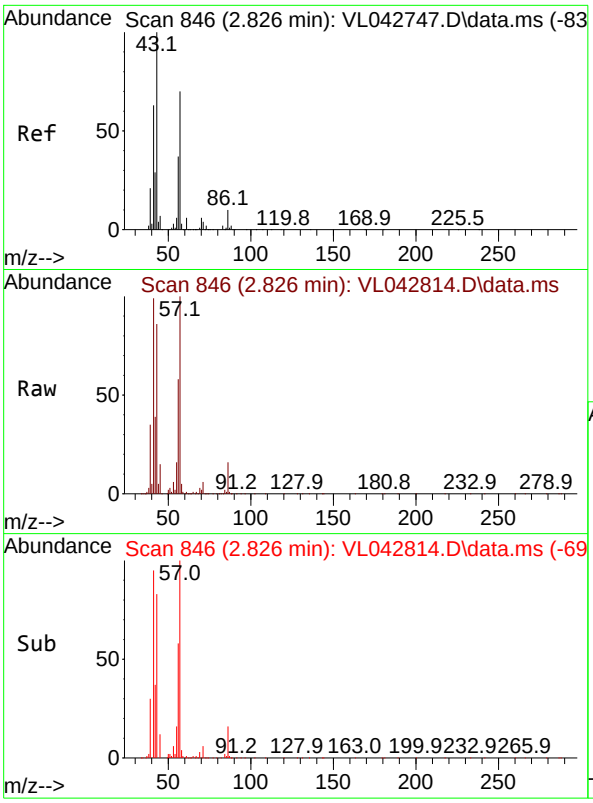


#25
Ethyl Acetate
Concen: 5.605 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 43 Resp: 276179

Ion	Ratio	Lower	Upper
43	100		
45	26.6	7.8	11.6#
61	8.3	6.7	10.1
70	7.1	6.6	10.0



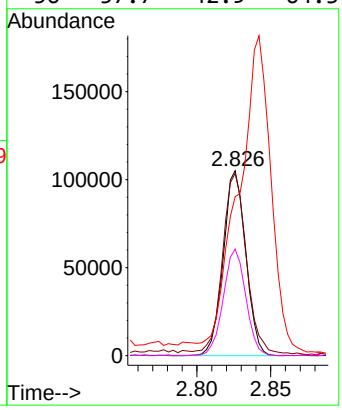


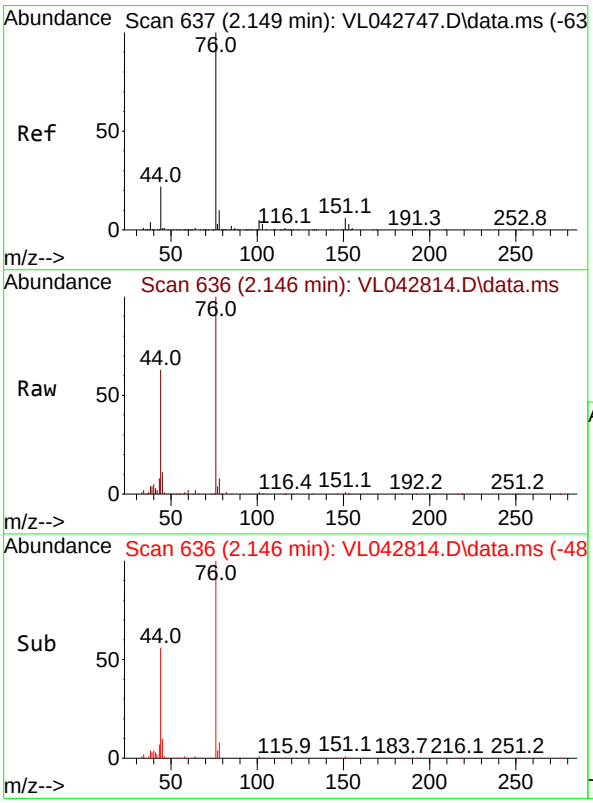
#26
Hexane
Concen: 5.166 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 57 Resp: 111667

Ion	Ratio	Lower	Upper
57	100		
41	110.7	75.4	113.2
43	261.3	185.0	277.6
56	57.7	42.9	64.3

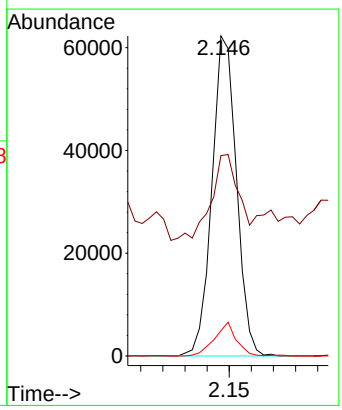


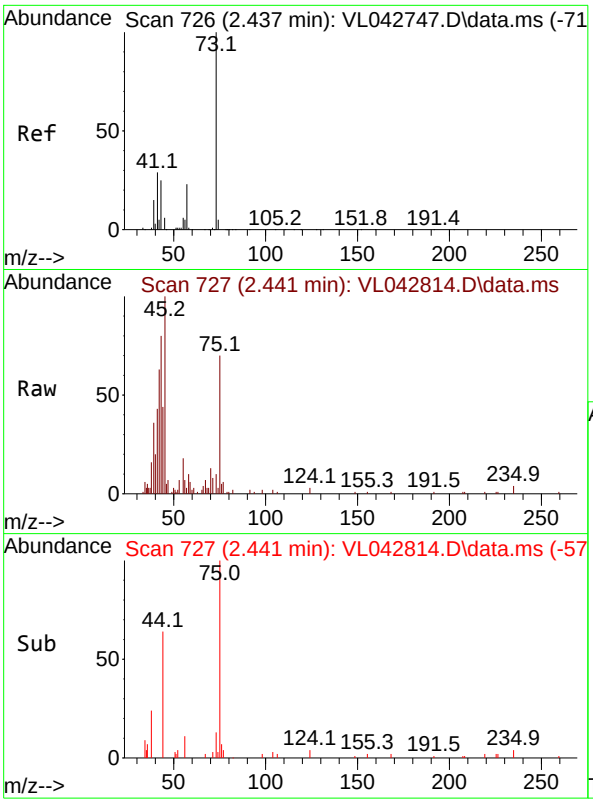


#27
Carbon Disulfide
Concen: 2.590 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 76 Resp: 47924

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.9	9.9	14.9#



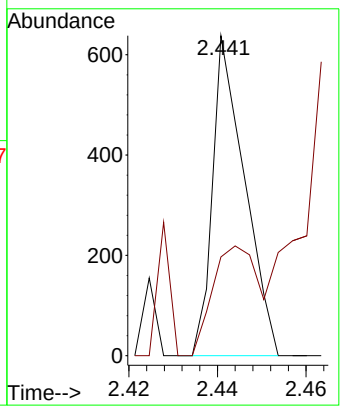


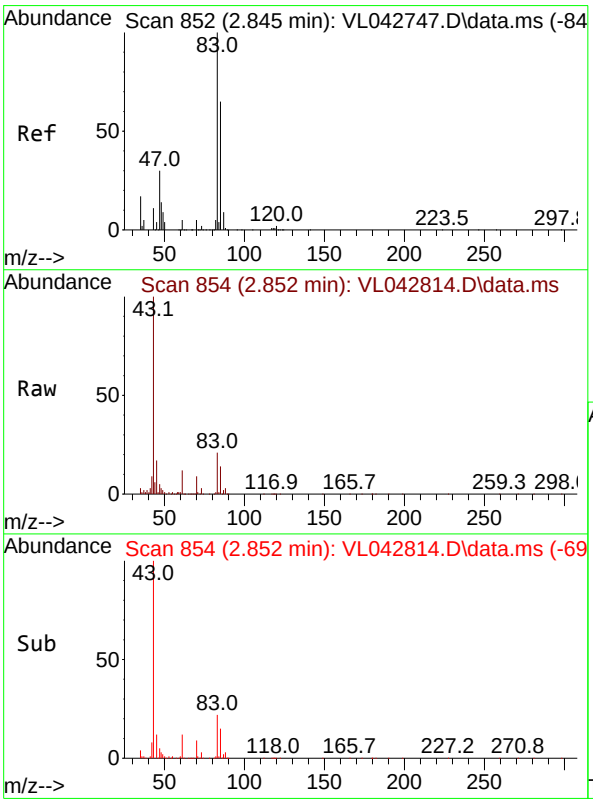
#28
Methyl tert-Butyl Ether
Concen: 0.032 ppbv
RT: 2.441 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 73 Resp: 322

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.8	29.8#

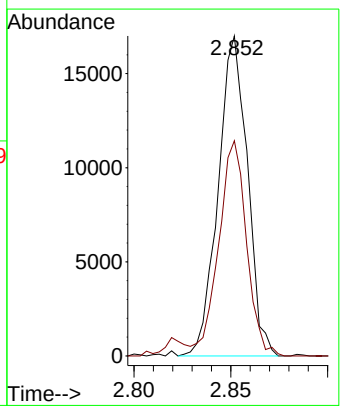


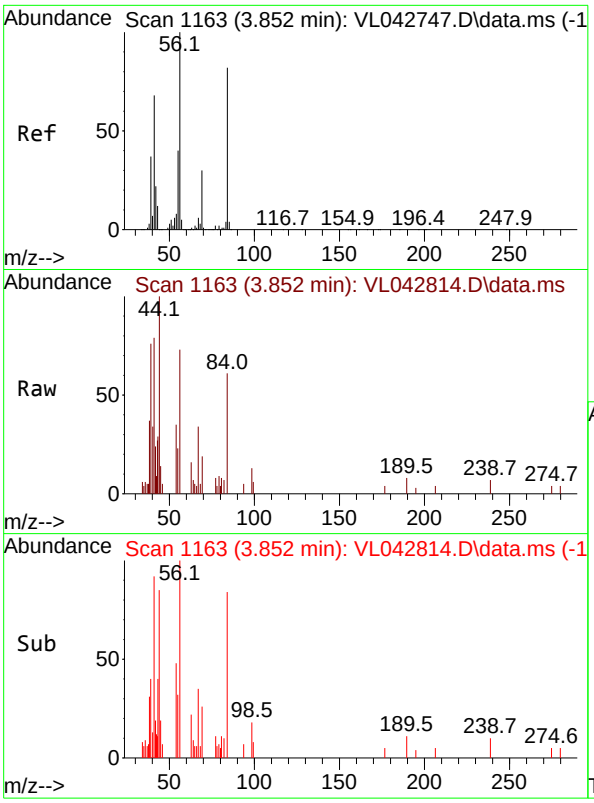


#29
Chloroform
Concen: 0.535 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 83 Resp: 17868

Ion	Ratio	Lower	Upper
83	100		
85	66.6	52.2	78.2



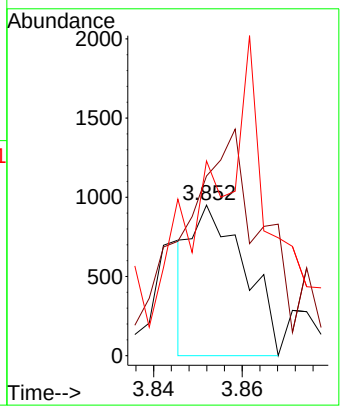


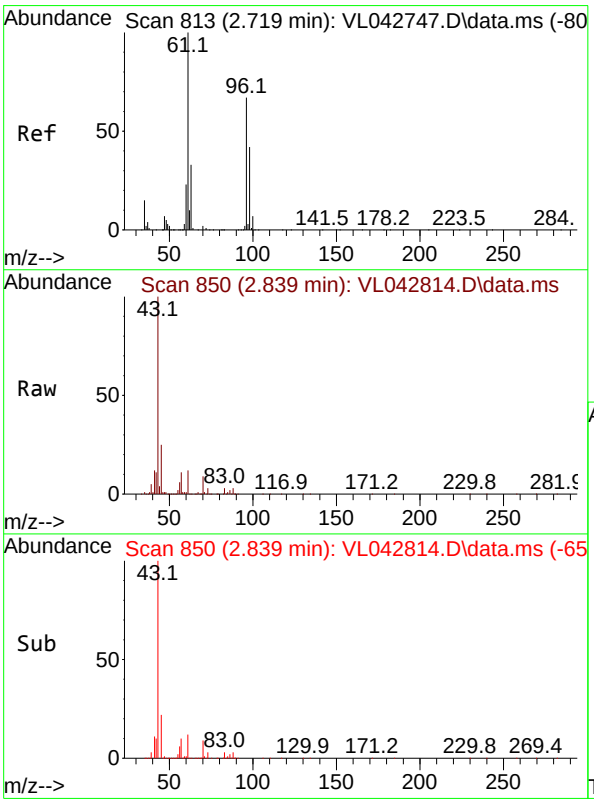
#30
Cyclohexane
Concen: 0.044 ppbv
RT: 3.852 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 84 Resp: 801

Ion	Ratio	Lower	Upper
84	100		
56	270.7	97.5	146.3#
41	287.1	67.2	100.8#

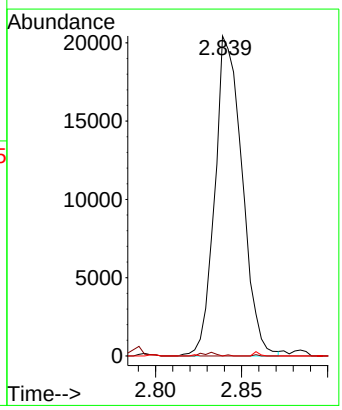


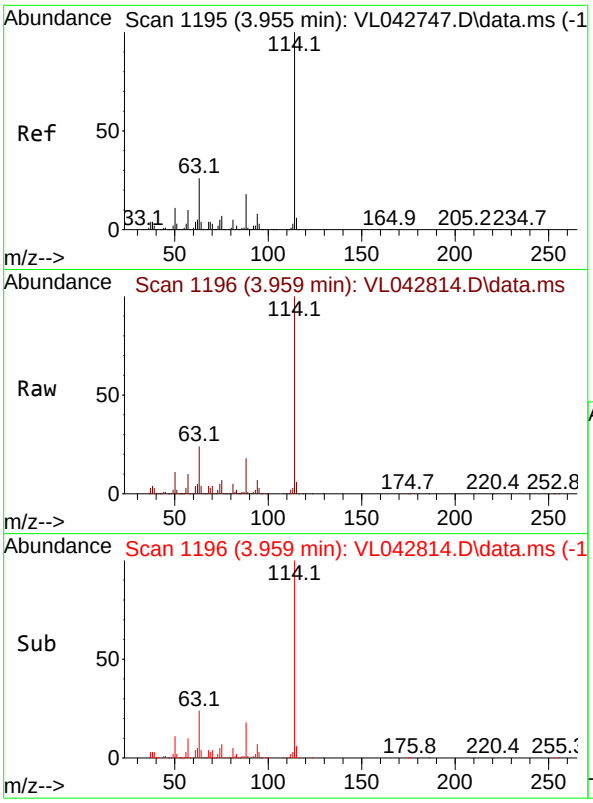


#31
cis-1,2-Dichloroethene
Concen: 1.015 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.120 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 61 Resp: 22549

Ion	Ratio	Lower	Upper
61	100		
96	0.0	53.5	80.3#
98	0.0	33.6	50.4#



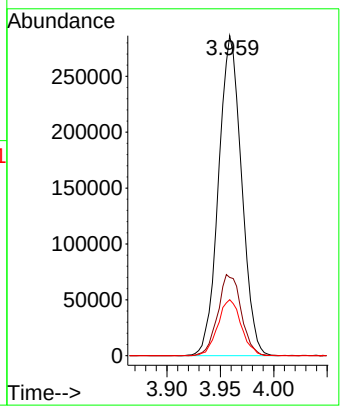


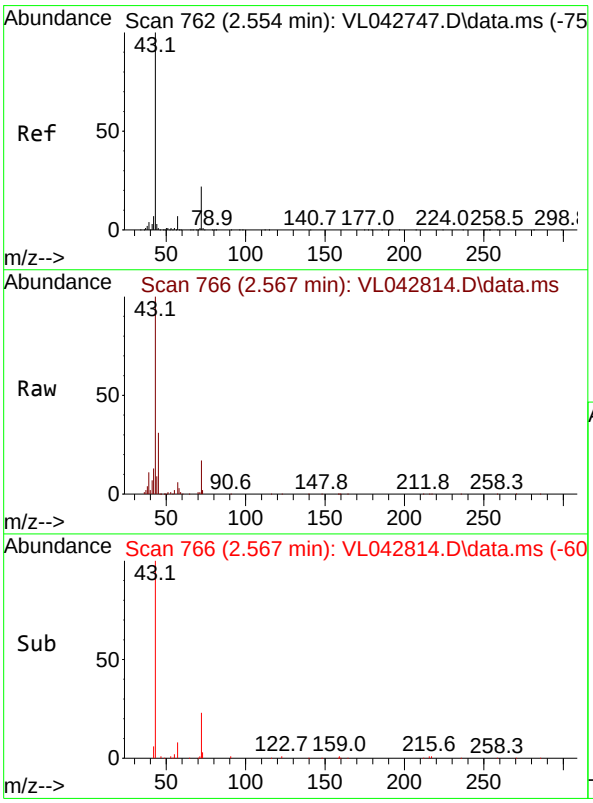
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion:114 Resp: 428986

Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.5	30.7
88	17.8	14.0	21.0

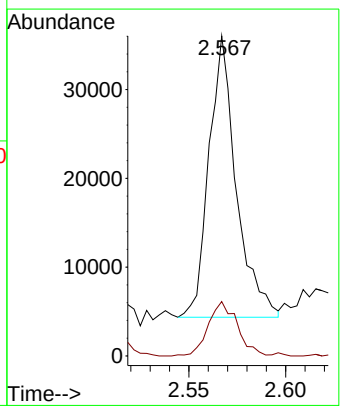


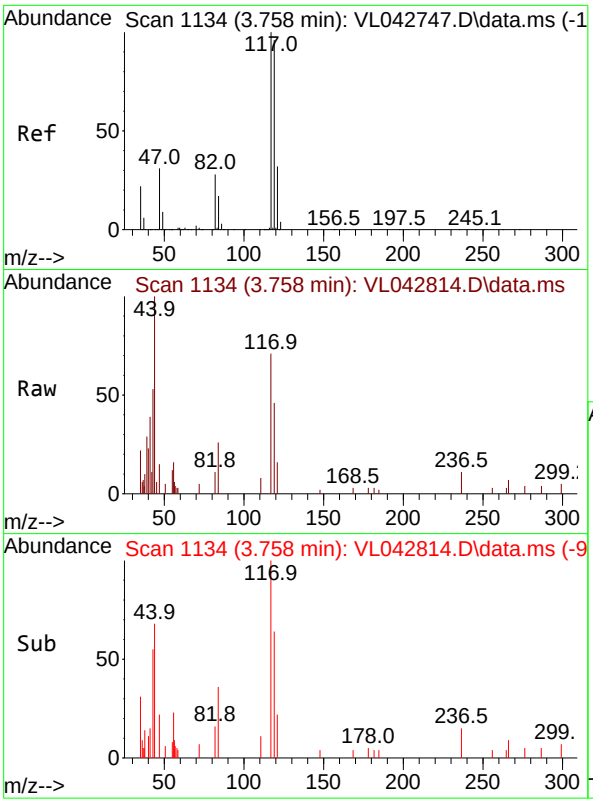


#34
2-Butanone
Concen: 1.025 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 43 Resp: 31136

Ion	Ratio	Lower	Upper
43	100		
72	21.1	17.4	26.0



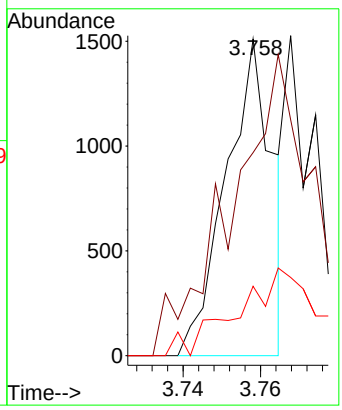


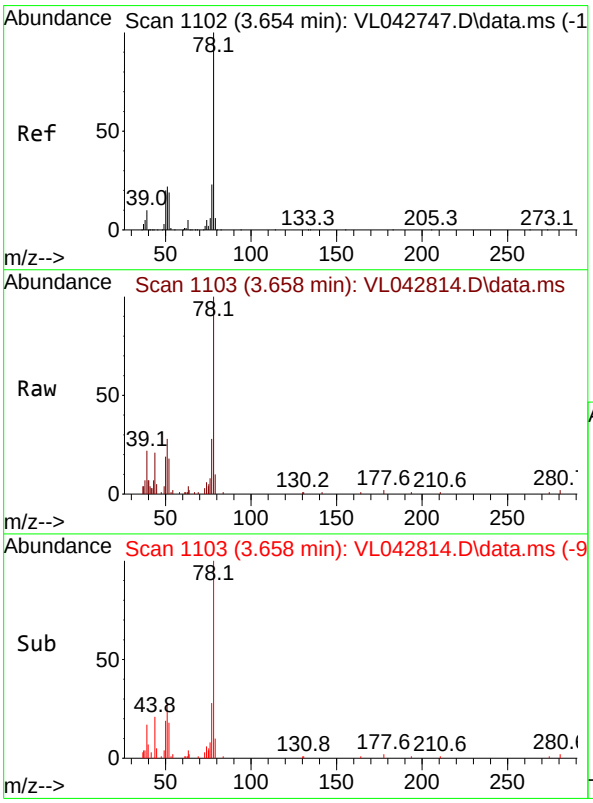
#35
Carbon Tetrachloride
Concen: 0.039 ppbv
RT: 3.758 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion:117 Resp: 1251

Ion	Ratio	Lower	Upper
117	100		
119	52.7	77.1	115.7#
121	14.4	25.5	38.3#

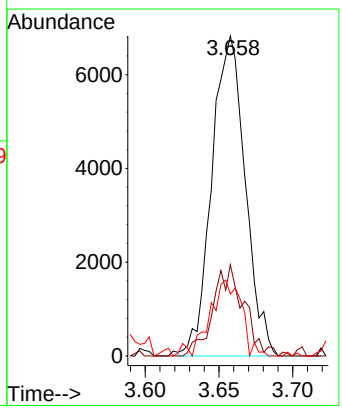


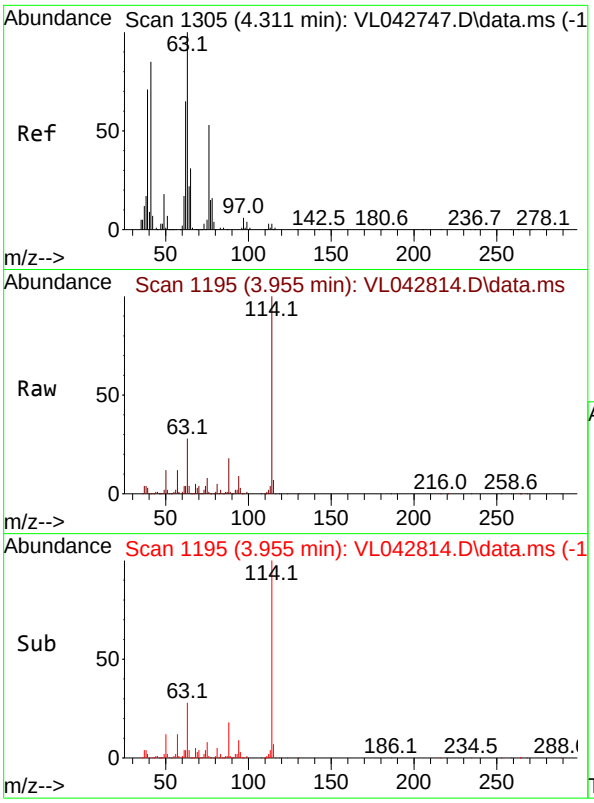


#36
Benzene
Concen: 0.264 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 78 Resp: 10752

Ion	Ratio	Lower	Upper
78	100		
77	28.5	18.5	27.7#
50	19.3	16.2	24.2



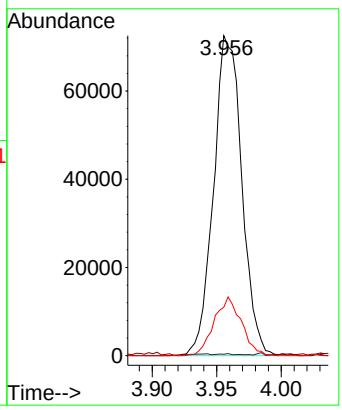


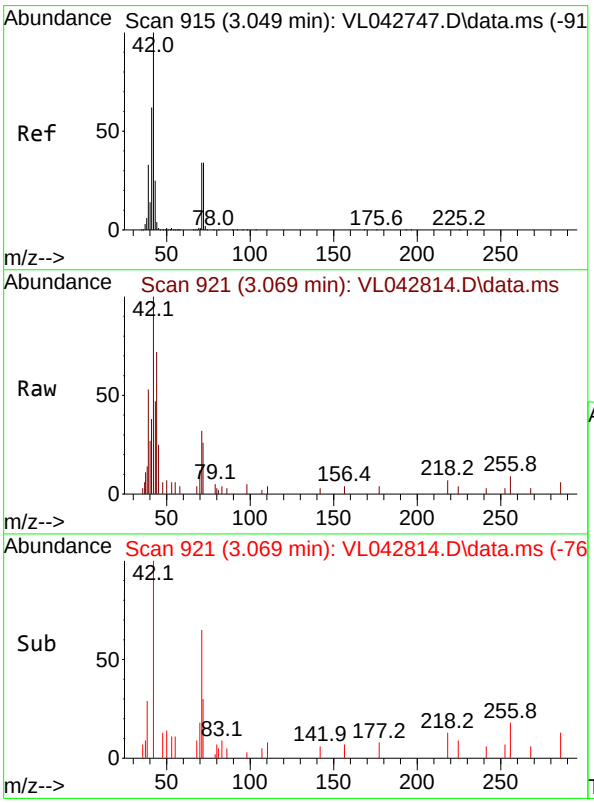
#39
1,2-Dichloropropane
Concen: 7.353 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.356 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 63 Resp: 110352

Ion	Ratio	Lower	Upper
63	100		
41	0.2	68.2	102.4#
62	15.1	52.0	78.0#

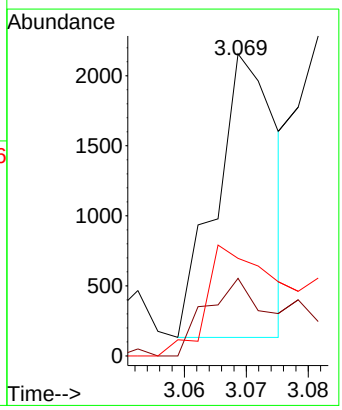


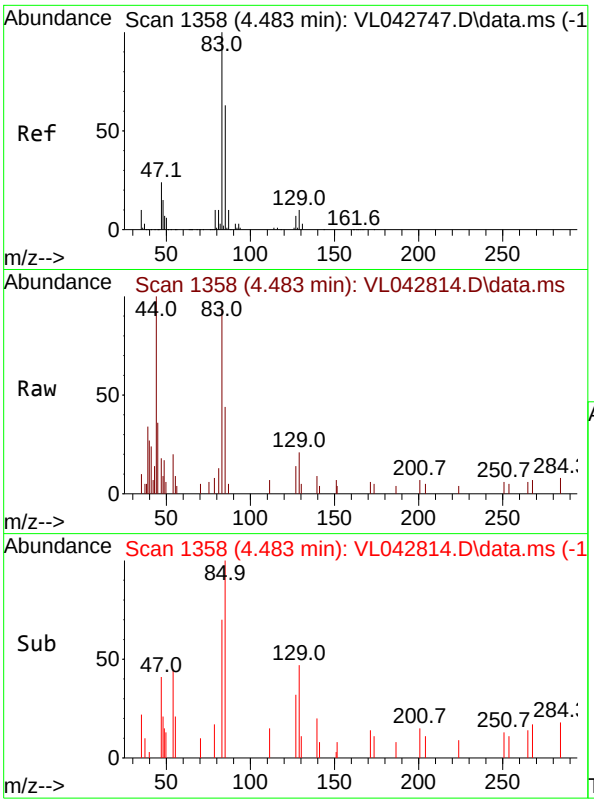


#41
Tetrahydrofuran
Concen: 0.088 ppbv
RT: 3.069 min Scan# 921
Delta R.T. 0.019 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 42 Resp: 1354

Ion	Ratio	Lower	Upper
42	100		
72	59.5	30.9	46.3#
71	71.8	28.6	43.0#



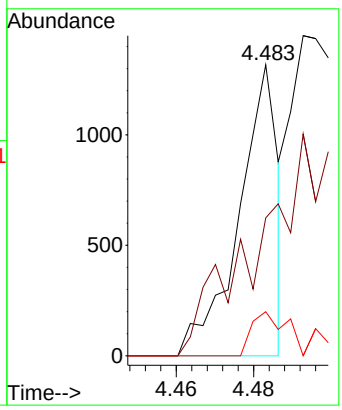


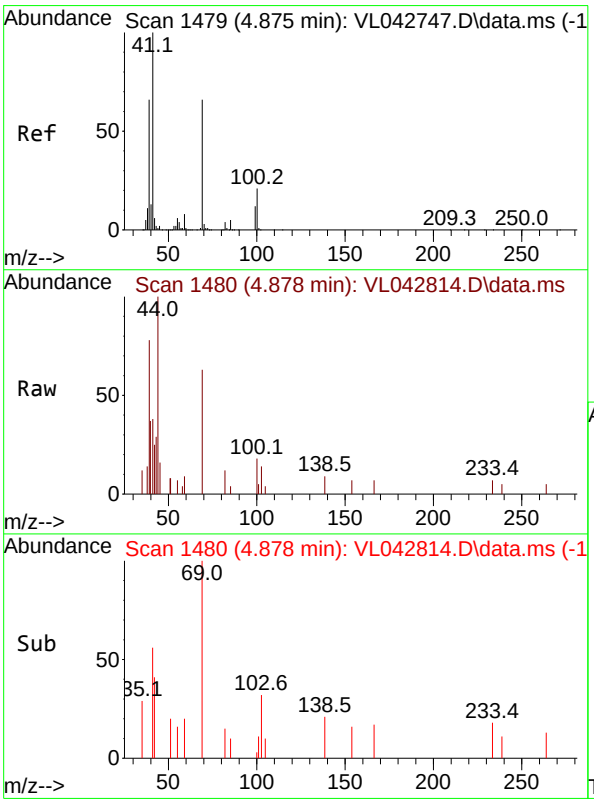
#42
Bromodichloromethane
Concen: 0.029 ppbv
RT: 4.483 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 83 Resp: 921

Ion	Ratio	Lower	Upper
83	100		
85	47.4	50.2	75.4#
127	15.2	5.4	8.2#

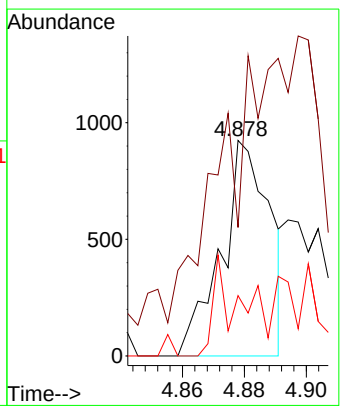


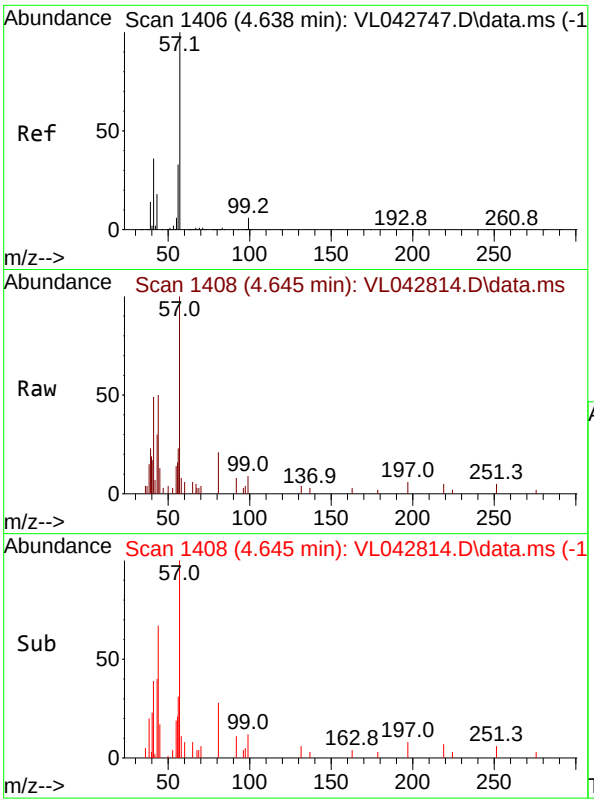


#43
Methyl Methacrylate
Concen: 0.069 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 69 Resp: 997

Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.7	188.5#
100	64.0	28.6	42.8#



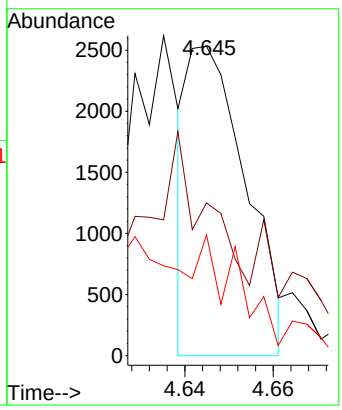


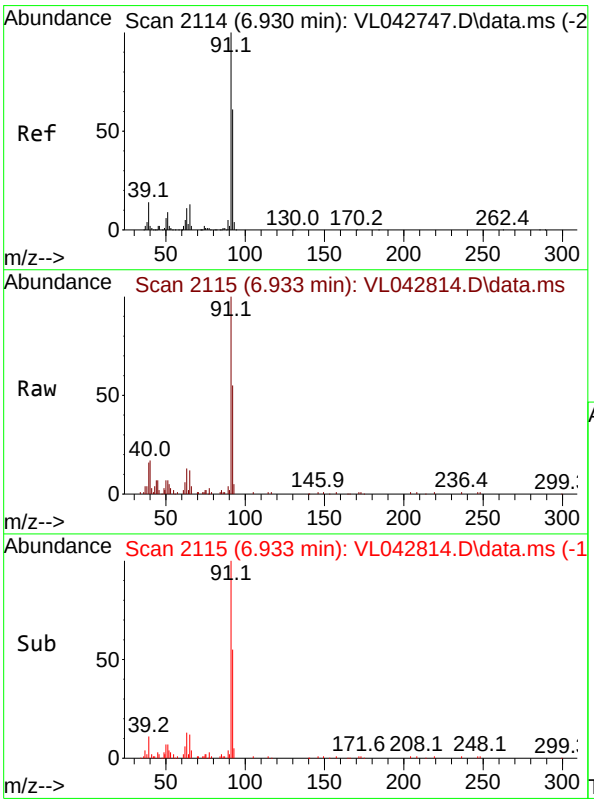
#44
2,2,4-Trimethylpentane
Concen: 0.035 ppbv
RT: 4.645 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 57 Resp: 2329

Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.3	42.5#
56	103.8	25.8	38.6#

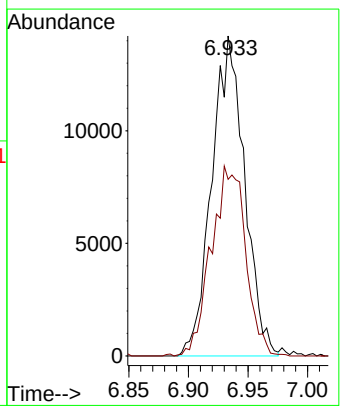


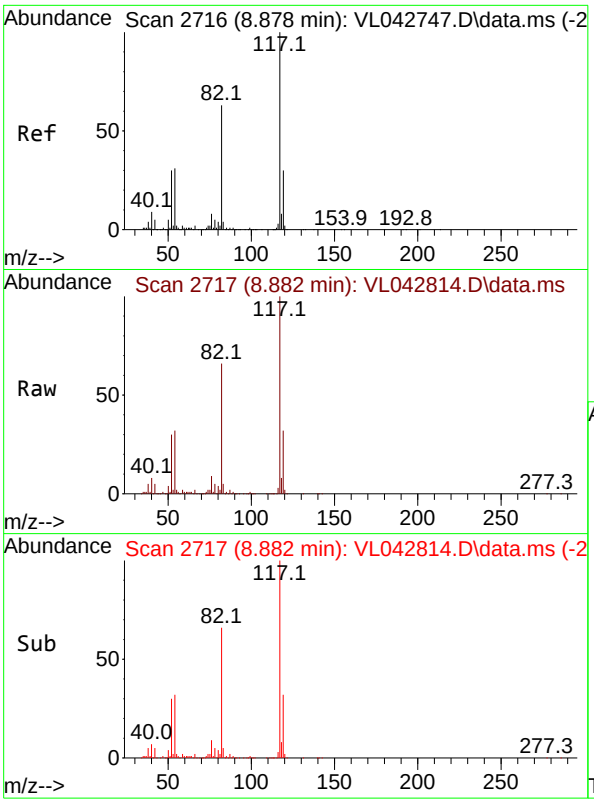


#53
Toluene
Concen: 0.624 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 91 Resp: 27249

Ion	Ratio	Lower	Upper
91	100		
92	62.0	48.0	72.0



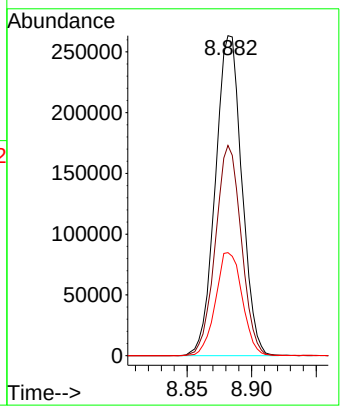


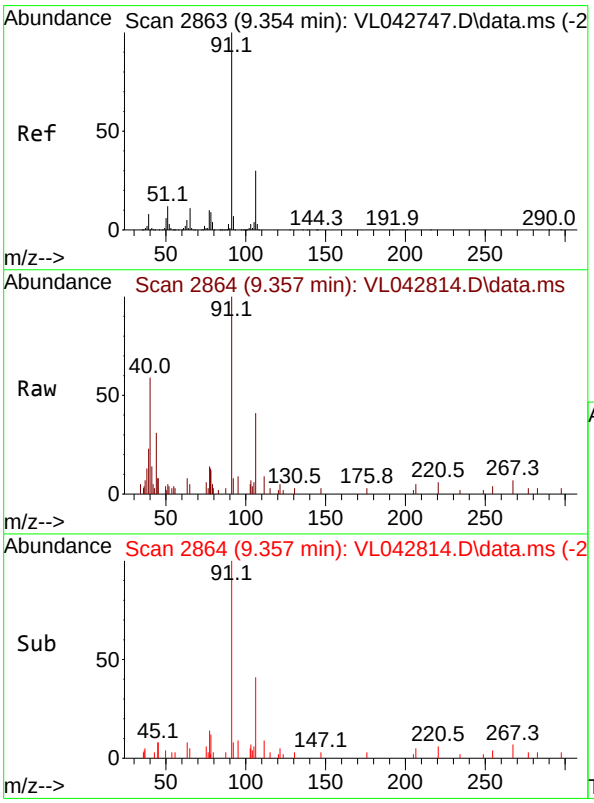
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion:117 Resp: 375205

Ion	Ratio	Lower	Upper
117	100		
82	64.4	53.3	79.9
119	32.6	25.8	38.6

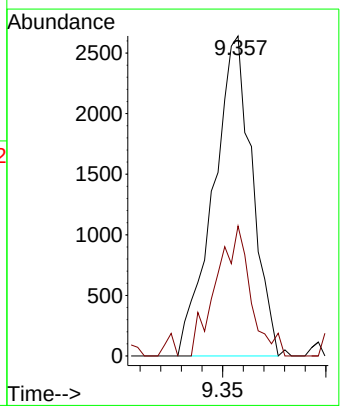


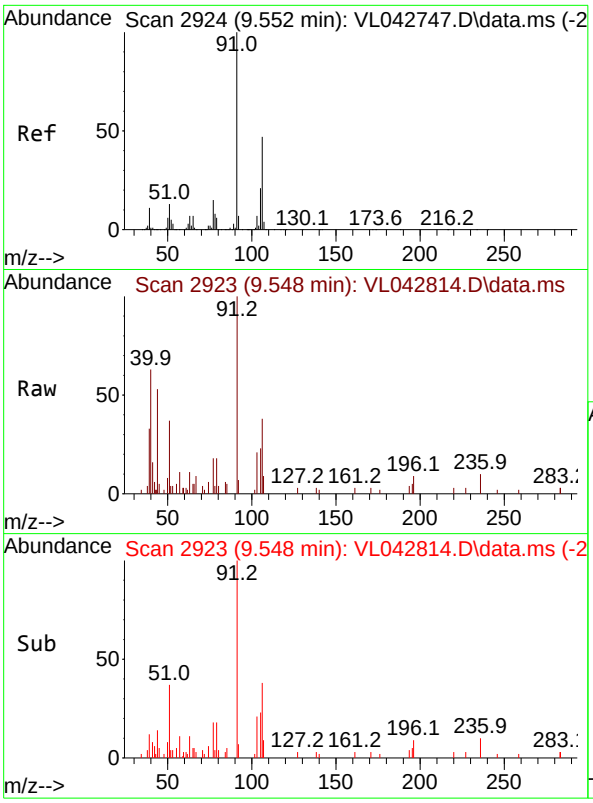


#58
Ethyl Benzene
Concen: 0.058 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 91 Resp: 3436

Ion	Ratio	Lower	Upper
91	100		
106	40.6	23.8	35.6#



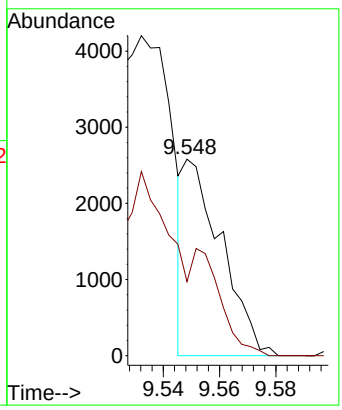


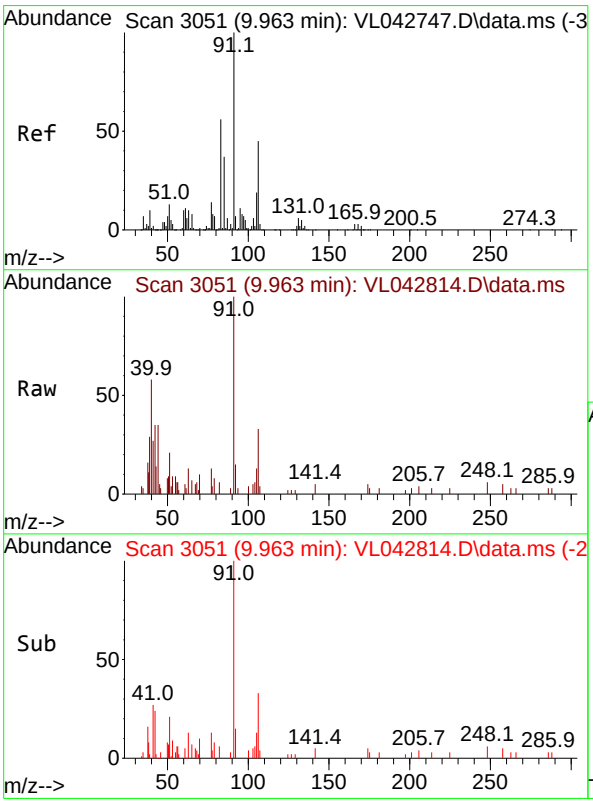
#59
m/p-Xylene
Concen: 0.051 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 91 Resp: 2404

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#

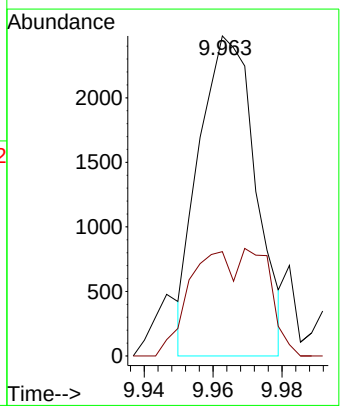


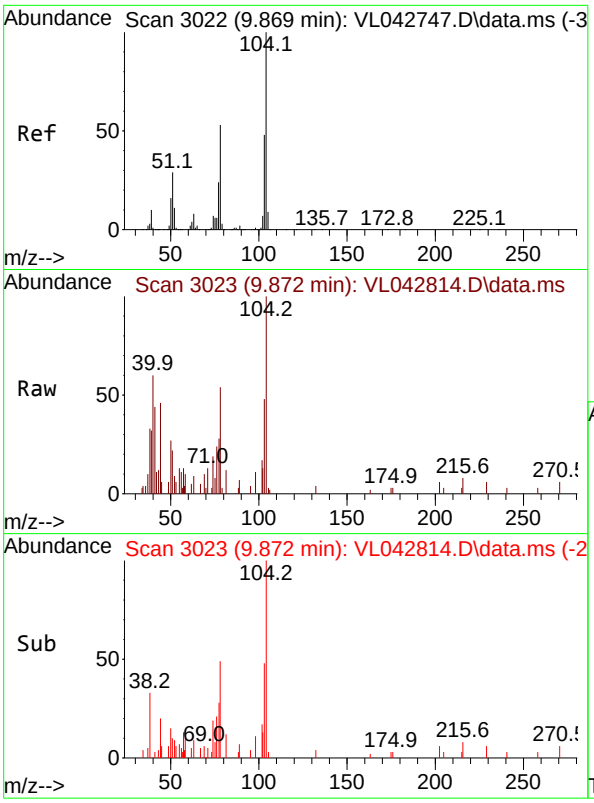


#60
o-Xylene
Concen: 0.060 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 91 Resp: 2831

Ion	Ratio	Lower	Upper
91	100		
106	45.1	22.0	66.0



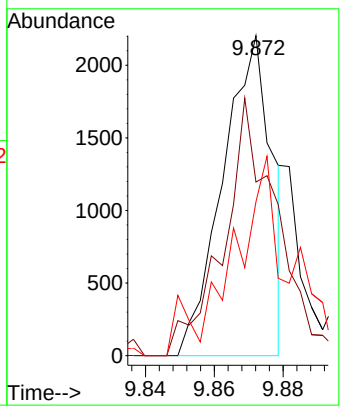


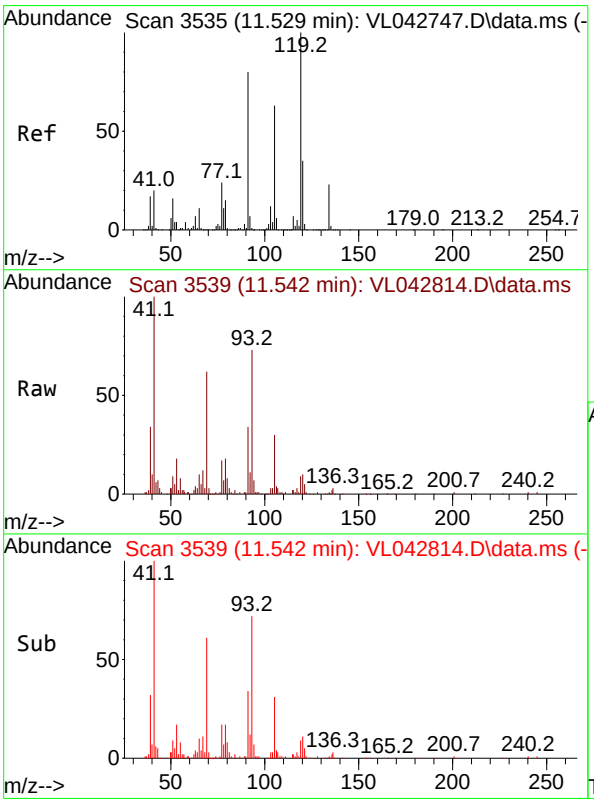
#61
Styrene
Concen: 0.110 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion:104 Resp: 2187

Ion	Ratio	Lower	Upper
104	100		
78	93.1	41.5	62.3#
103	74.3	37.5	56.3#

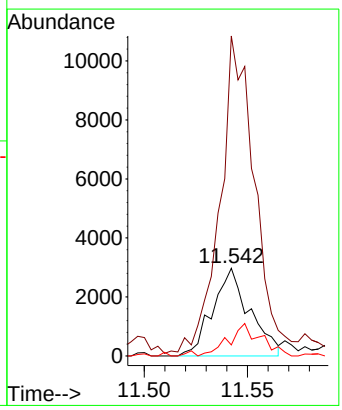


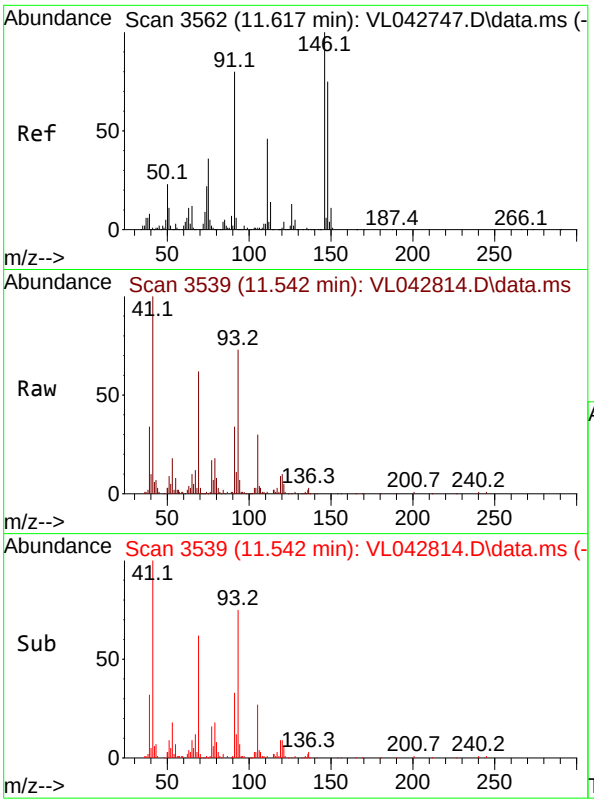


#65
tert-Butylbenzene
Concen: 0.060 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.013 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:119 Resp: 3723

Ion	Ratio	Lower	Upper
119	100		
91	371.2	64.0	96.0#
134	35.5	17.3	25.9#



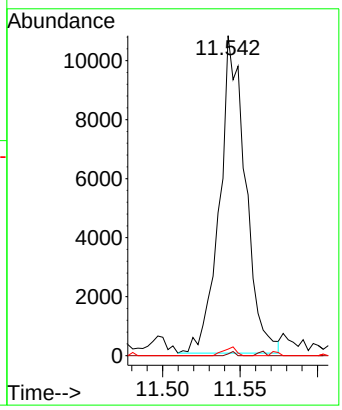


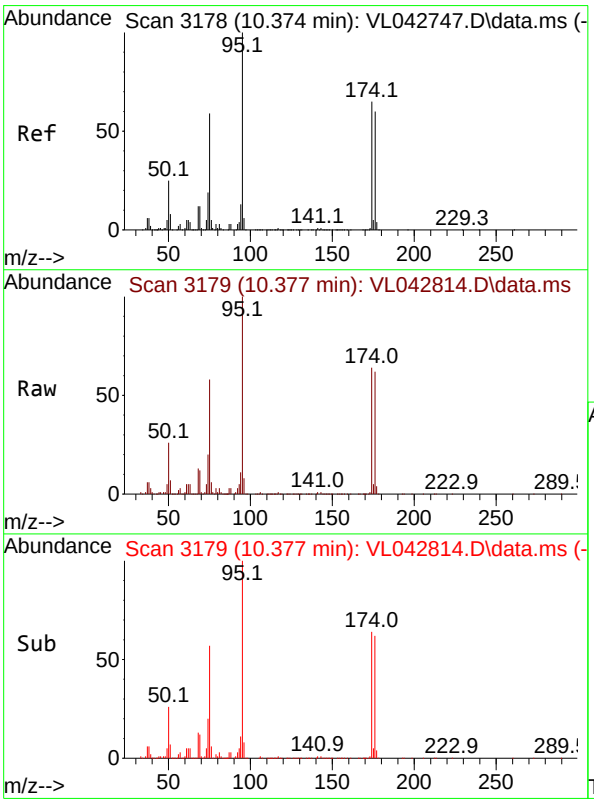
#66
Benzyl Chloride
Concen: 2.457 ppbv
RT: 11.542 min Scan# 3
Delta R.T. -0.074 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 91 Resp: 12506

Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.4	21.6#
128	1.4	5.2	7.8#

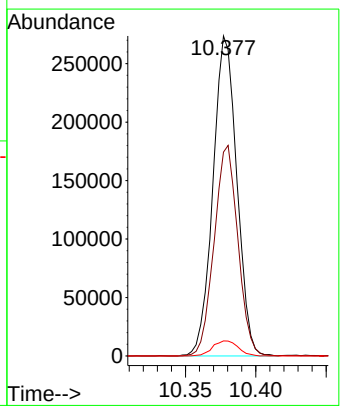


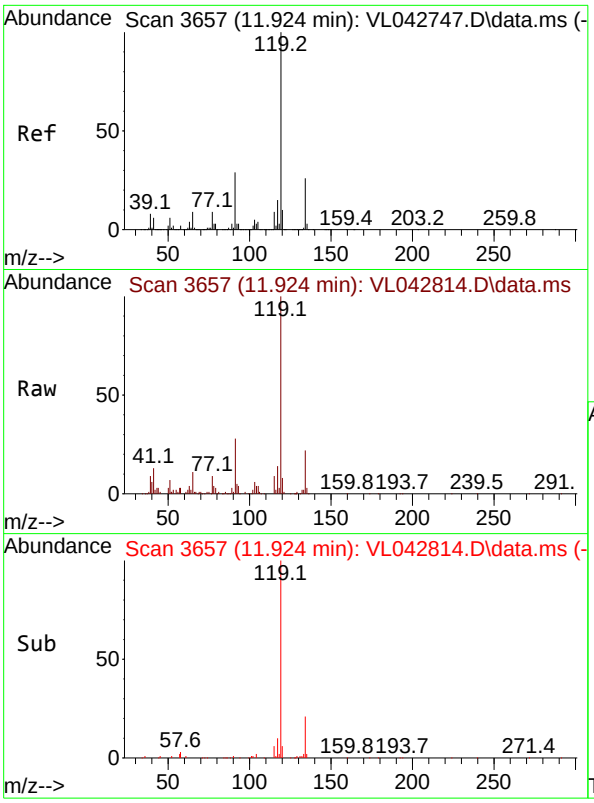


#68
1-Bromo-4-Fluorobenzene
Concen: 10.888 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 95 Resp: 323539

Ion	Ratio	Lower	Upper
95	100		
174	65.5	53.8	80.6
175	5.1	4.0	6.0



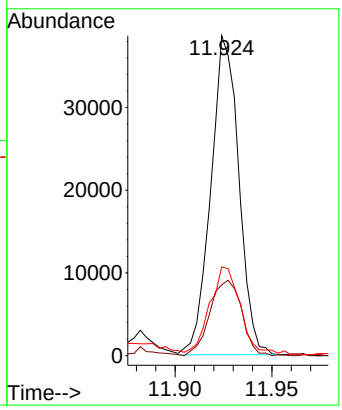


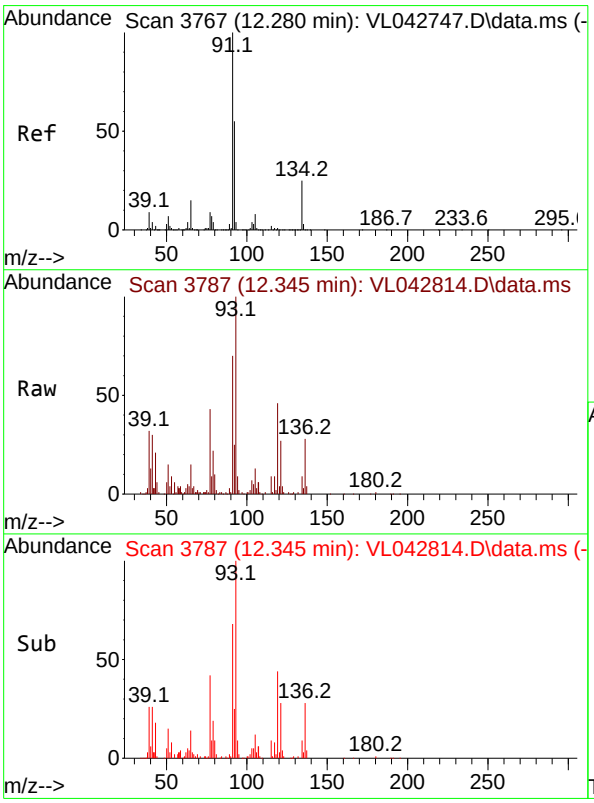
#69
p-Isopropyltoluene
Concen: 0.540 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion:119 Resp: 38819

Ion	Ratio	Lower	Upper
119	100		
134	27.1	20.6	31.0
91	30.8	23.2	34.8

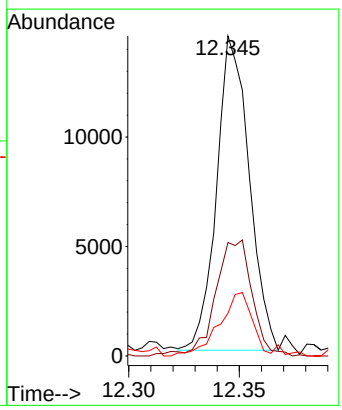


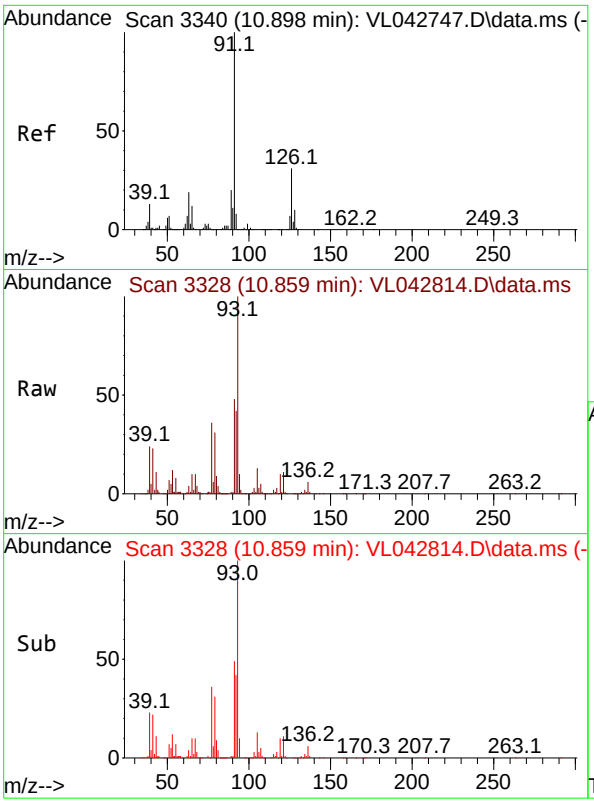


#70
n-Butylbenzene
Concen: 0.211 ppbv
RT: 12.345 min Scan# 3787
Delta R.T. 0.065 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 91 Resp: 14675

Ion	Ratio	Lower	Upper
91	100		
92	41.6	43.4	65.2#
134	22.3	19.6	29.4



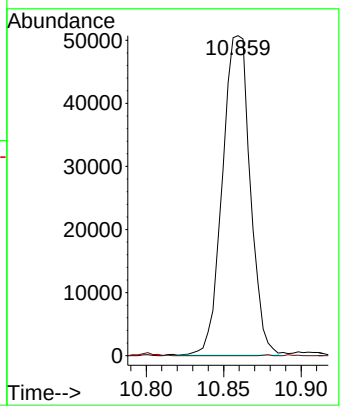


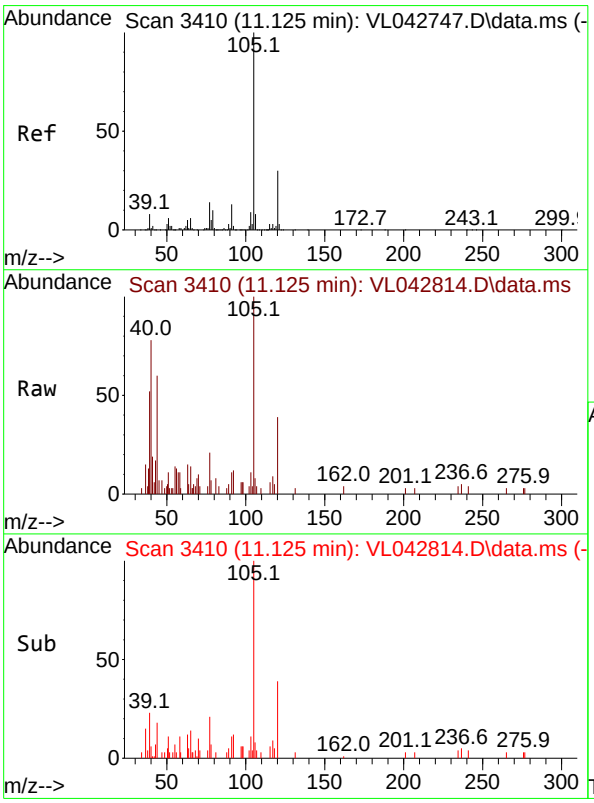
#71
2-Chlorotoluene
Concen: 1.183 ppbv
RT: 10.859 min Scan# 3
Delta R.T. -0.039 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 91 Resp: 63332

Ion	Ratio	Lower	Upper
91	100		
126	0.2	12.0	48.2#

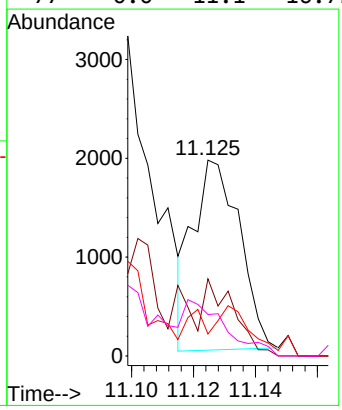


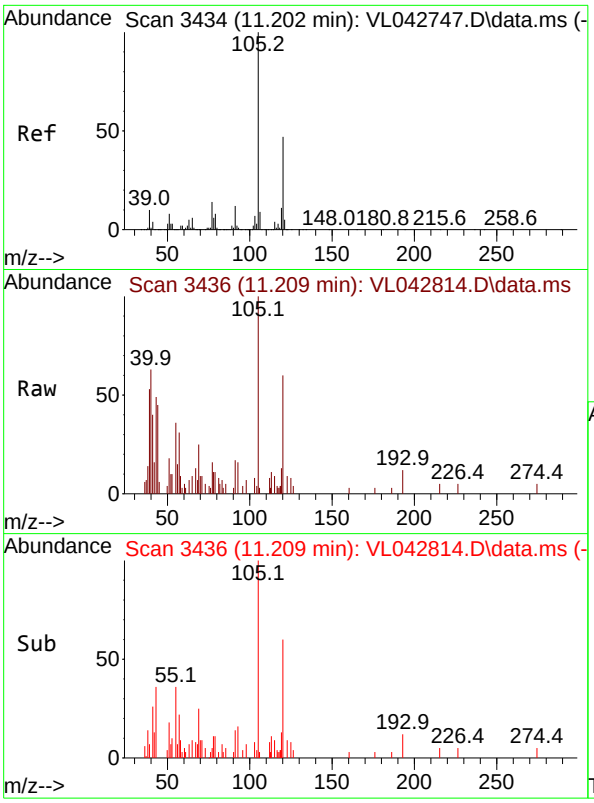


#72
4-Ethyltoluene
Concen: 0.035 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:105 Resp: 1995

Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.4	36.6#
91	0.0	10.6	15.8#
77	0.0	11.1	16.7#



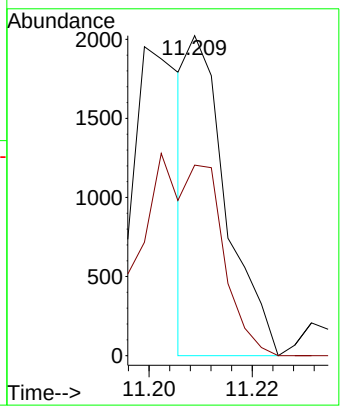


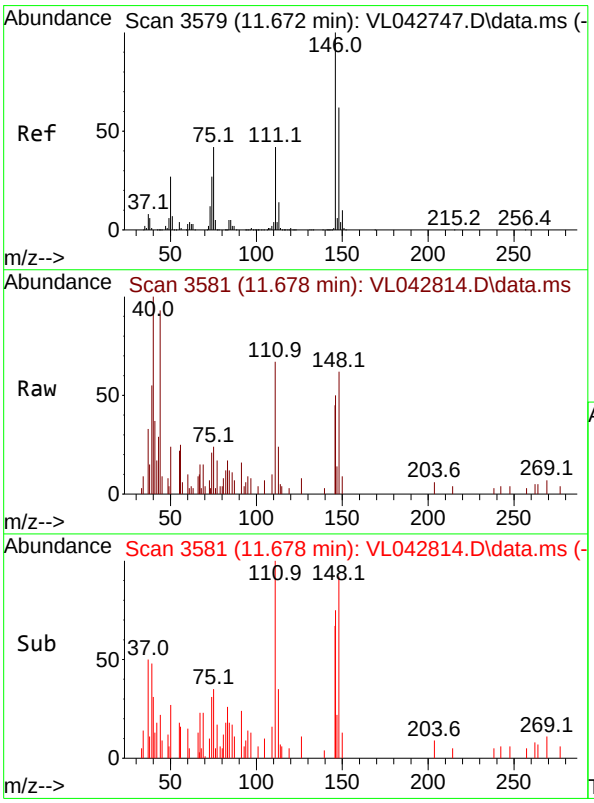
#73
1,3,5-Trimethylbenzene
Concen: 0.023 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.007 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion:105 Resp: 1052

Ion	Ratio	Lower	Upper
105	100		
120	61.2	37.8	56.8#

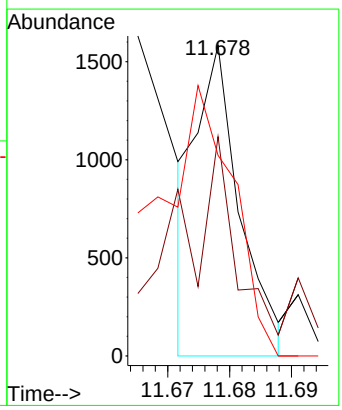


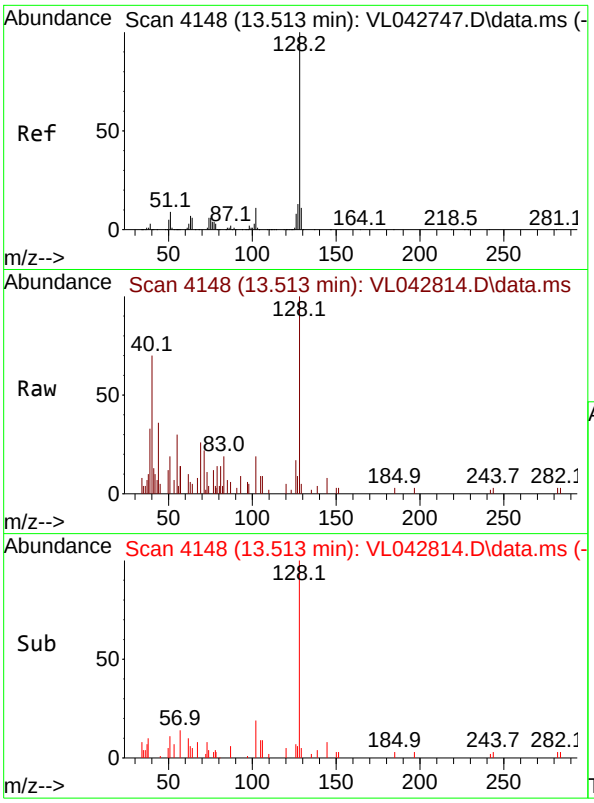


#76
1,4-Dichlorobenzene
Concen: 0.022 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.007 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:146 Resp: 781

Ion	Ratio	Lower	Upper
146	100		
111	158.8	21.4	64.2#
148	153.9	32.1	96.3#



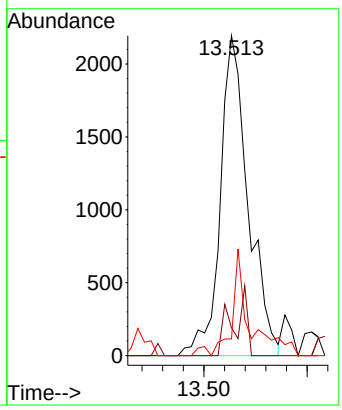


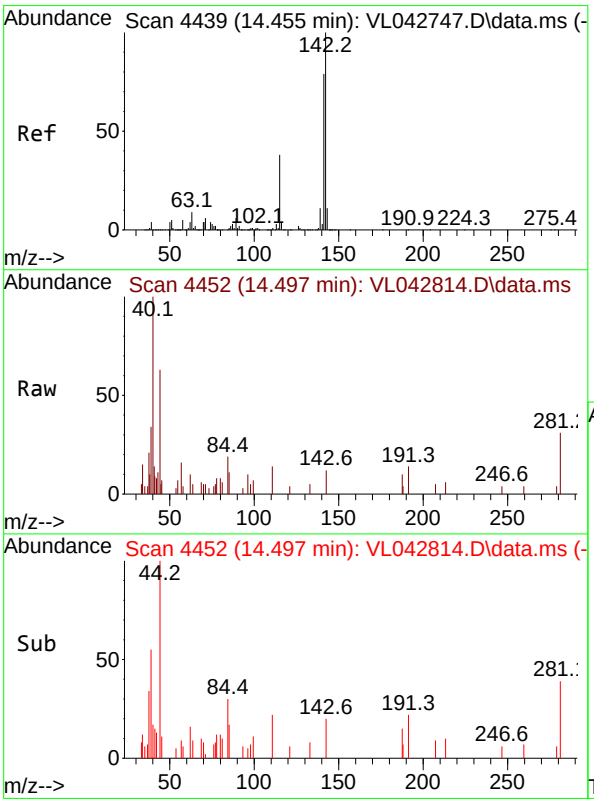
#79
Naphthalene
Concen: 0.471 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion:128 Resp: 2069

Ion	Ratio	Lower	Upper
128	100		
127	8.8	10.5	15.7#
129	5.2	8.6	13.0#

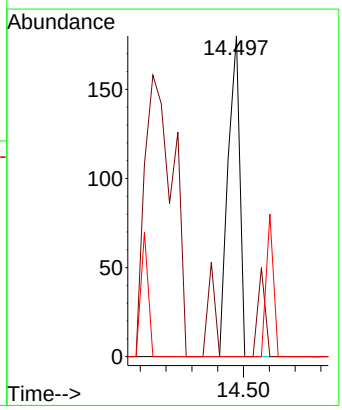


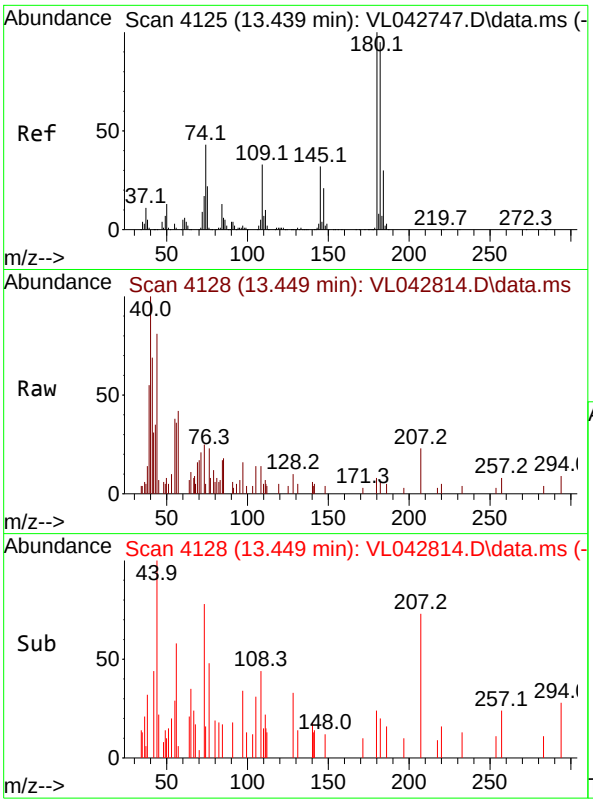


#80
Naphthalene,2-methyl-
Concen: 1.130 ppbv
RT: 14.497 min Scan# 4452
Delta R.T. 0.042 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:142 Resp: 57

Ion	Ratio	Lower	Upper
142	100		
141	291.2	65.8	98.8#
115	114.0	31.2	46.8#



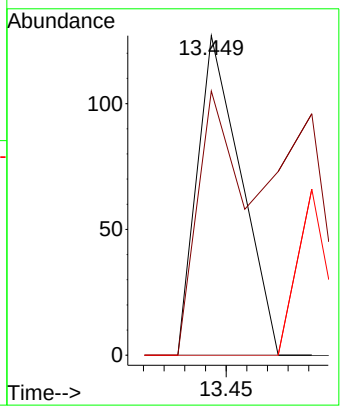


#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.449 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion:180 Resp: 37

Ion	Ratio	Lower	Upper
180	100		
182	243.2	76.2	114.2#
184	35.1	24.8	37.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042815.D
Acq On : 04 Aug 2025 20:49
Operator : SY/MD
Sample : Q2750-04DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Quant Time: Aug 05 01:12:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

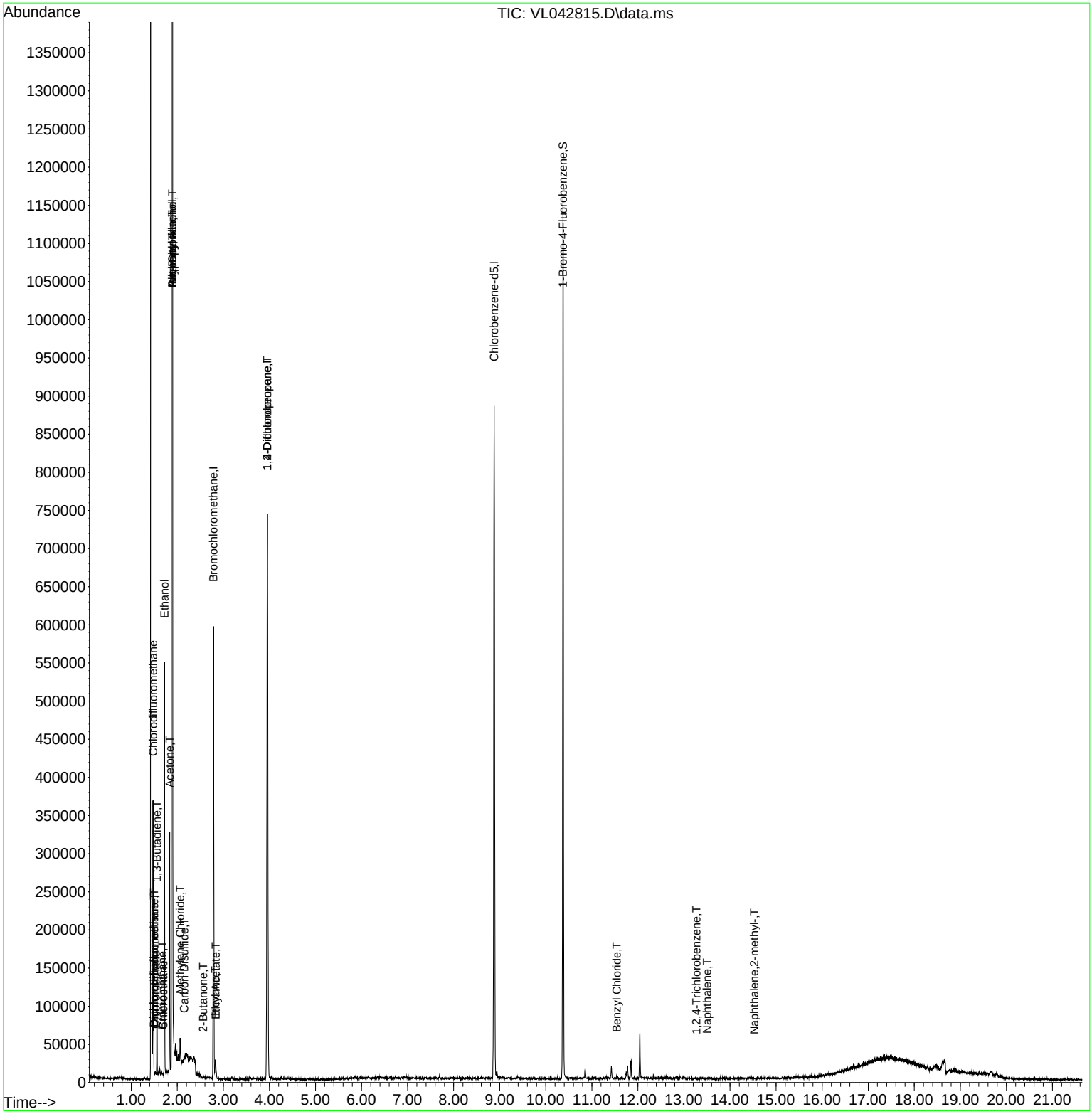
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	151902	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	412340	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.879	117	344266	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	261303	9.584	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	496	0.025	ppbv		97
3) Chlorodifluoromethane	1.473	51	102736	3.927	ppbv		99
4) Chloromethane	1.531	50	455	0.056	ppbv		88
6) Bromomethane	1.680	94	81	0.026	ppbv	#	24
7) Chloroethane	1.697	64	163	0.053	ppbv	#	45
8) Dichlorotetrafluoroethane	1.499	85	496	0.030	ppbv	#	19
9) Propene	1.891	41	1034738	108.821	ppbv		94
13) Ethanol	1.722	45	188043	270.448	ppbv		90
15) Acetone	1.836	43	133054	6.343	ppbv		99
16) 1,3-Butadiene	1.557	39	9934	1.110	ppbv	#	19
17) tert-Butyl alcohol	1.894	59	457380	24.178	ppbv	#	94
19) Isopropyl Alcohol	1.891	45	4242568	380.618	ppbv	#	40
20) Methylene Chloride	2.062	84	4526	0.685	ppbv	#	80
21) Allyl Chloride	1.891	41	1034738	80.042	ppbv	#	84
25) Ethyl Acetate	2.836	43	9523	0.205	ppbv	#	85
26) Hexane	2.826	57	4065	0.200	ppbv	#	81
27) Carbon Disulfide	2.150	76	2818	0.162	ppbv	#	67
34) 2-Butanone	2.561	43	1369	0.047	ppbv	#	79
39) 1,2-Dichloropropane	3.956	63	106714	7.398	ppbv	#	22
66) Benzyl Chloride	11.539	91	378	0.081	ppbv	#	84
79) Naphthalene	13.501	128	11	0.435	ppbv	#	69
80) Naphthalene,2-methyl-	14.527	142	31	1.130	ppbv	#	1
81) 1,2,4-Trichlorobenzene	13.271	180	27	0.436	ppbv	#	1

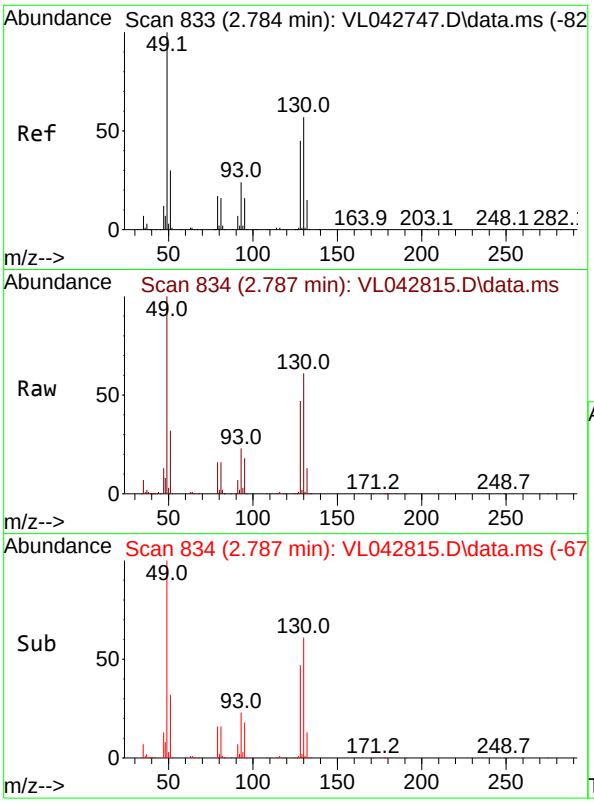
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042815.D
Acq On : 04 Aug 2025 20:49
Operator : SY/MD
Sample : Q2750-04DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Quant Time: Aug 05 01:12:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



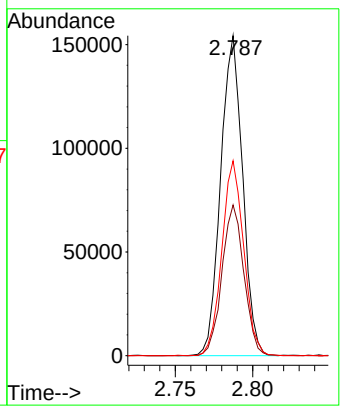


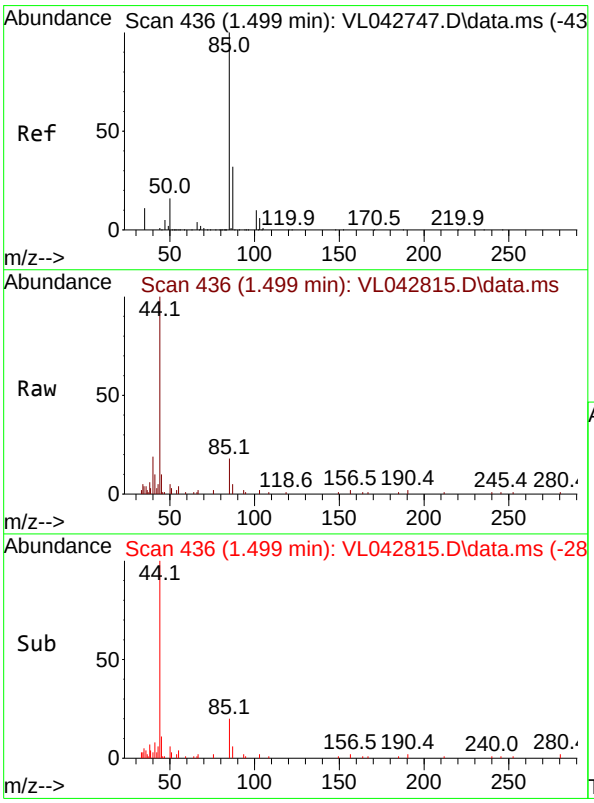
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion: 49 Resp: 151902

Ion	Ratio	Lower	Upper
49	100		
128	47.2	23.6	71.0
130	60.6	30.3	90.8

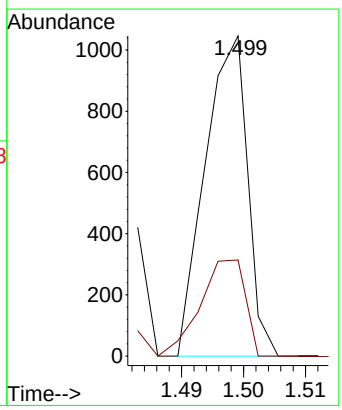


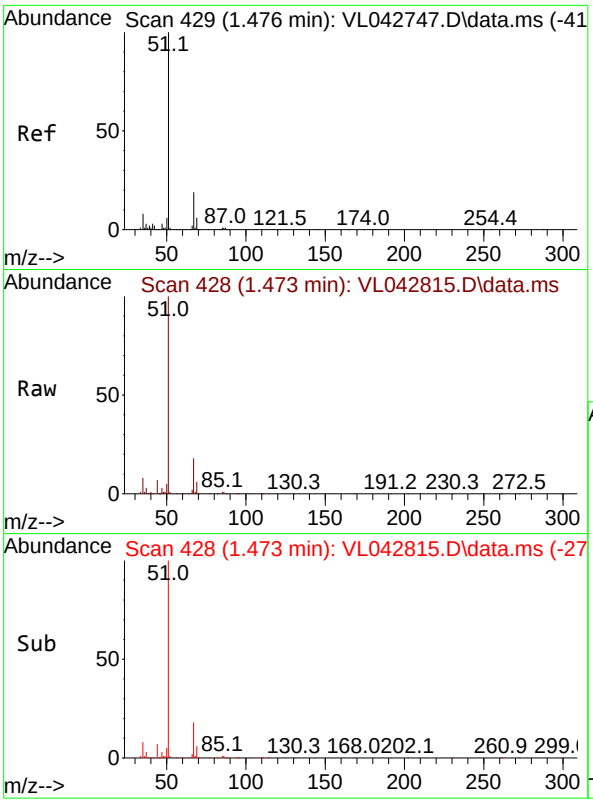


#2
Dichlorodifluoromethane
Concen: 0.025 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 85 Resp: 496

Ion	Ratio	Lower	Upper
85	100		
87	30.0	25.4	38.2



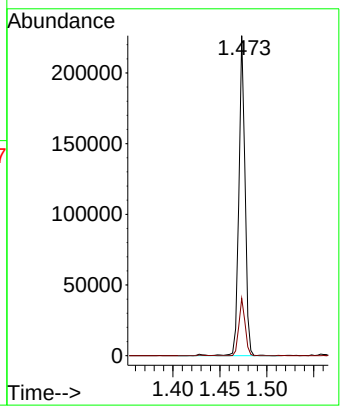


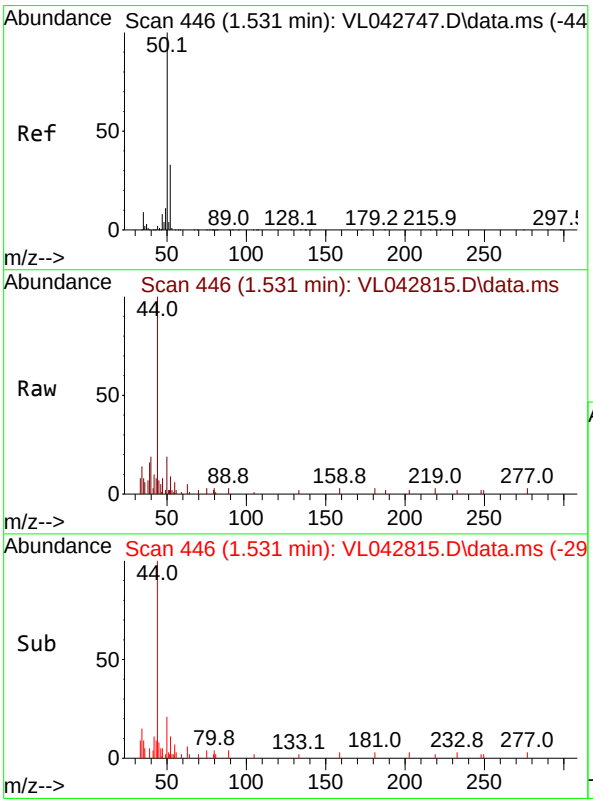
#3
Chlorodifluoromethane
Concen: 3.927 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion: 51 Resp: 102736

Ion	Ratio	Lower	Upper
51	100		
67	18.5	15.0	22.6

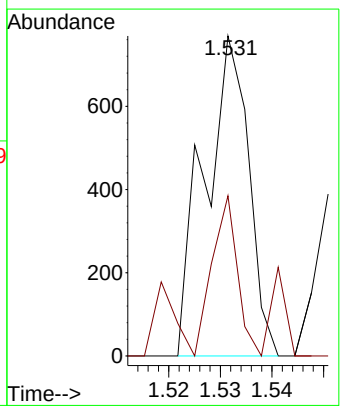


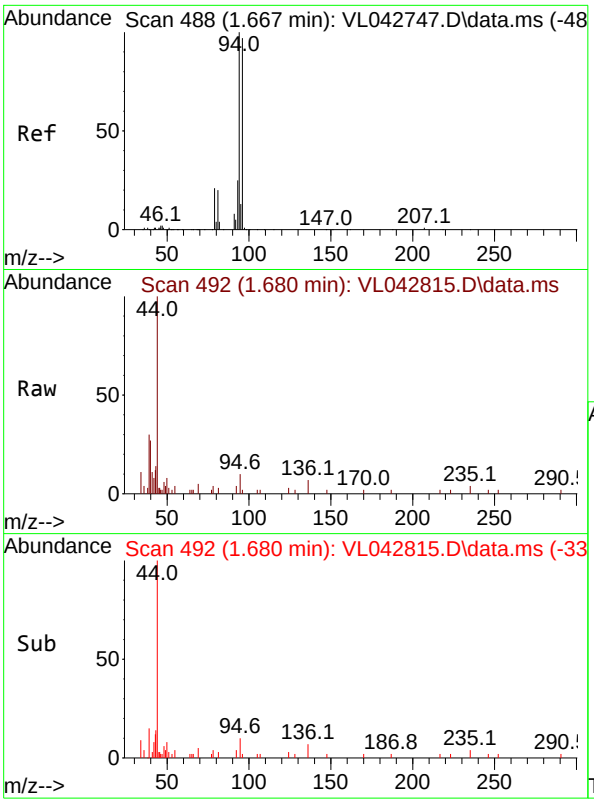


#4
Chloromethane
Concen: 0.056 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 50 Resp: 455

Ion	Ratio	Lower	Upper
50	100		
52	39.9	26.6	40.0



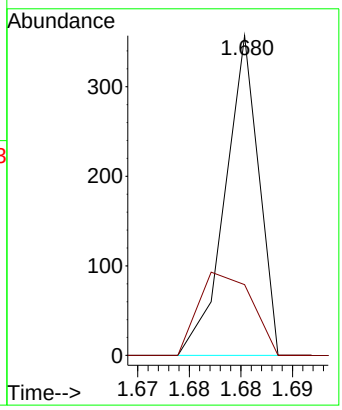


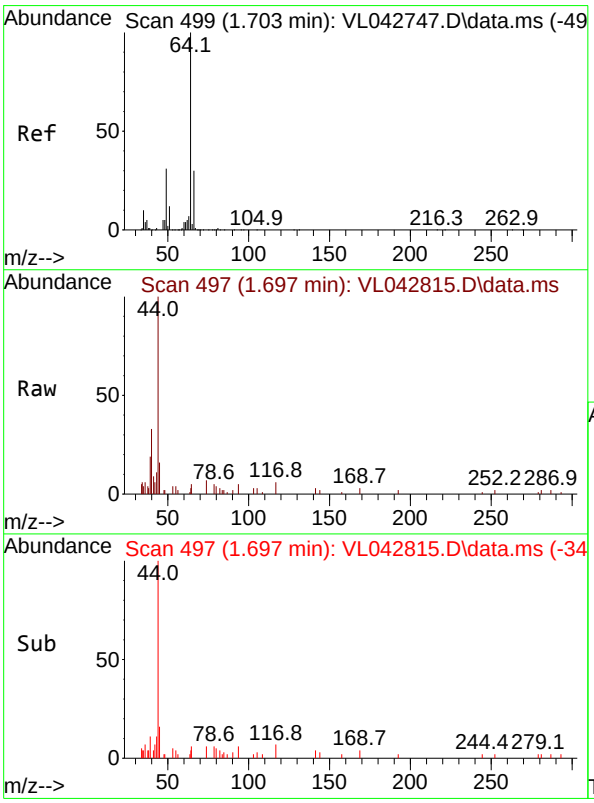
#6
Bromomethane
Concen: 0.026 ppbv
RT: 1.680 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion: 94 Resp: 81

Ion	Ratio	Lower	Upper
94	100		
96	22.1	77.6	116.4#

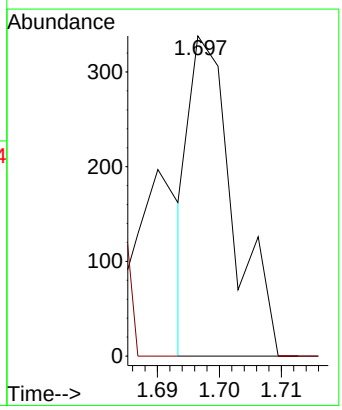


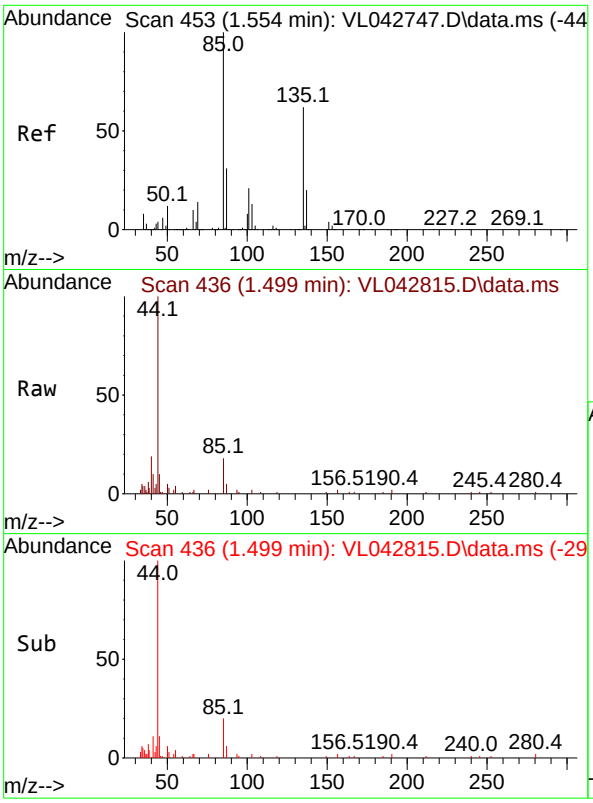


#7
Chloroethane
Concen: 0.053 ppbv
RT: 1.697 min Scan# 497
Delta R.T. -0.006 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 64 Resp: 163

Ion	Ratio	Lower	Upper
64	100		
66	0.0	24.1	36.1#



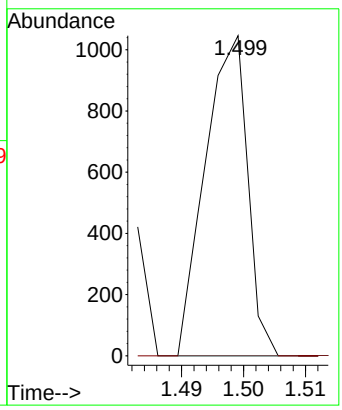


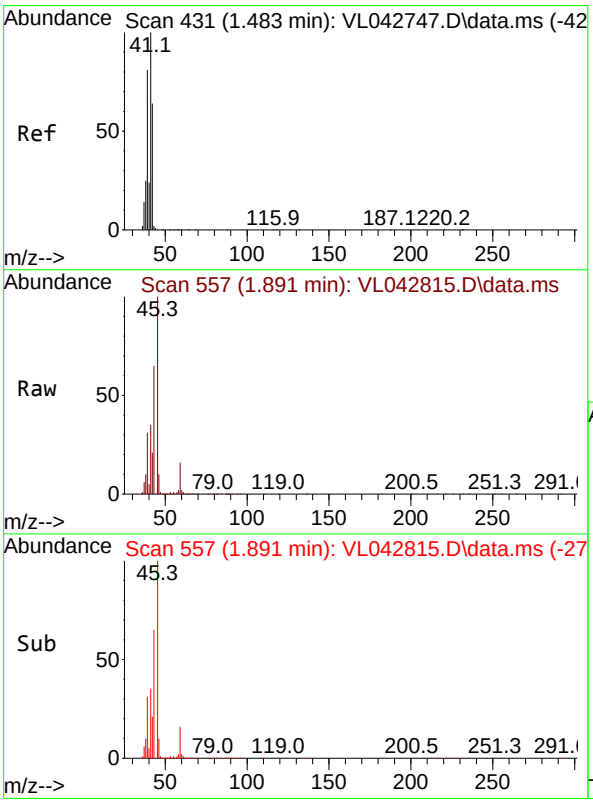
#8
Dichlorotetrafluoroethane
Concen: 0.030 ppbv
RT: 1.499 min Scan# 4
Delta R.T. -0.055 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion: 85 Resp: 496

Ion	Ratio	Lower	Upper
85	100		
135	0.0	50.6	76.0#

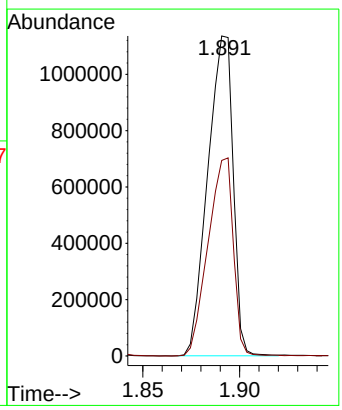


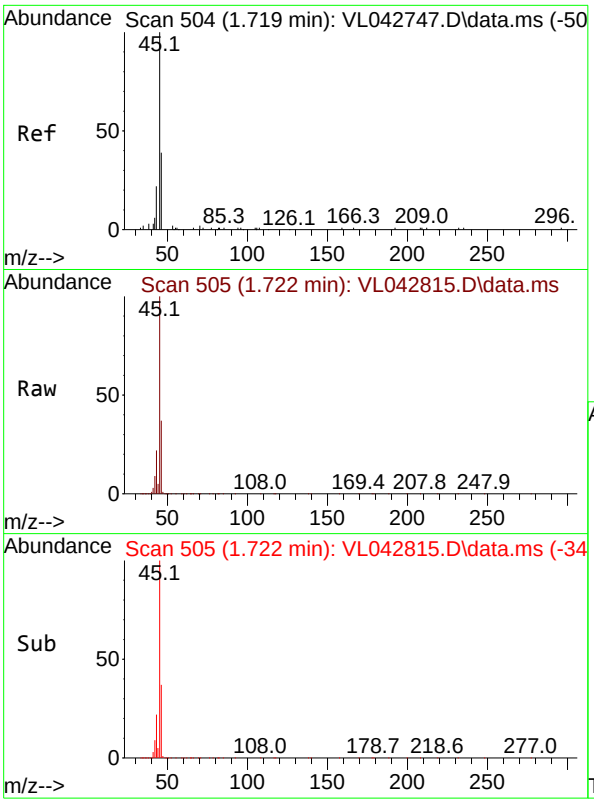


#9
Propene
Concen: 108.821 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.408 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 41 Resp: 1034738

Ion	Ratio	Lower	Upper
41	100		
42	61.6	53.2	79.8



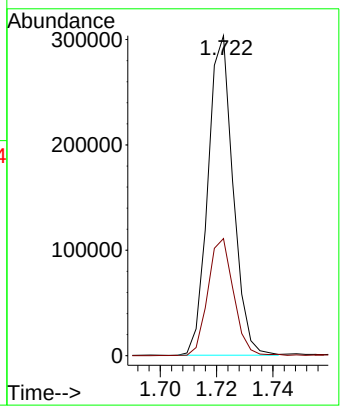


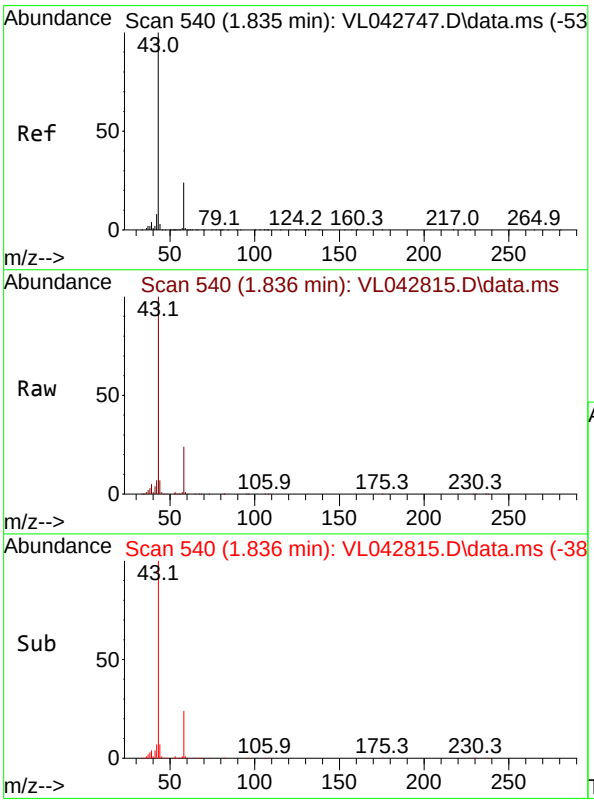
#13
Ethanol
Concen: 270.448 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion: 45 Resp: 188043

Ion	Ratio	Lower	Upper
45	100		
46	37.8	17.8	71.4

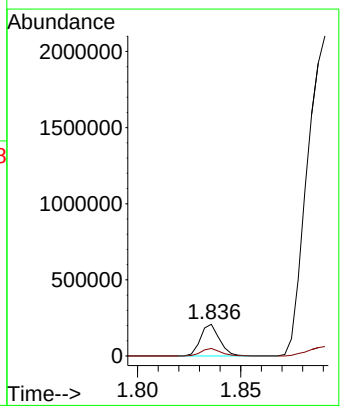


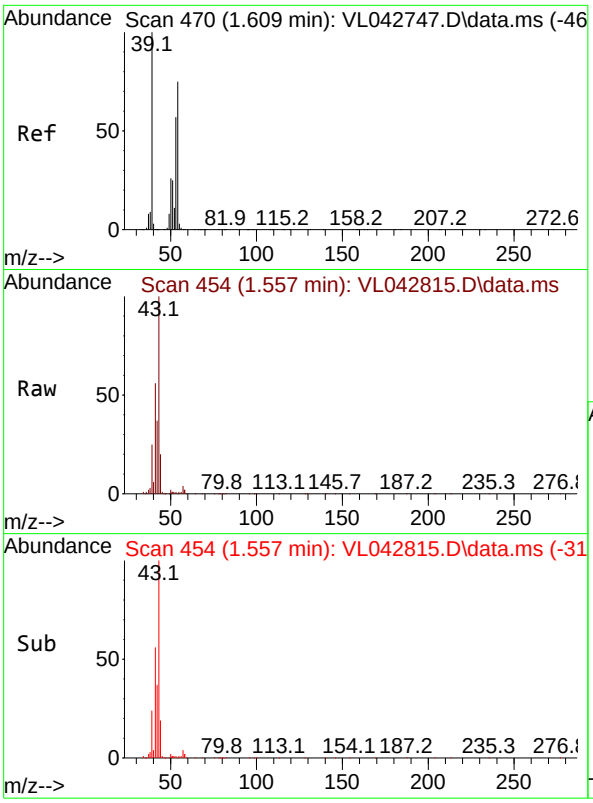


#15
Acetone
Concen: 6.343 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 43 Resp: 133054

Ion	Ratio	Lower	Upper
43	100		
58	24.3	19.8	29.8



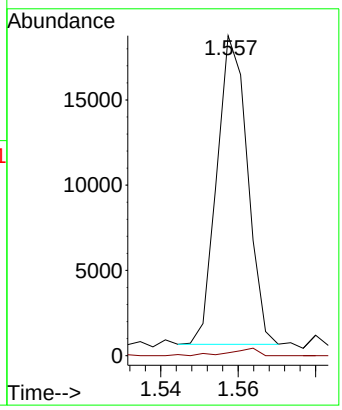


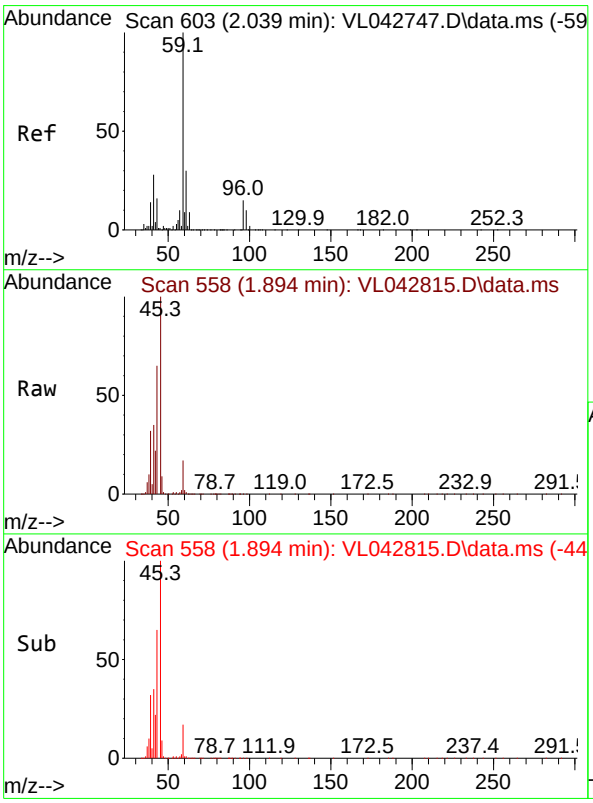
#16
1,3-Butadiene
Concen: 1.110 ppbv
RT: 1.557 min Scan# 4
Delta R.T. -0.052 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion: 39 Resp: 9934

Ion	Ratio	Lower	Upper
39	100		
54	2.3	54.5	81.7#

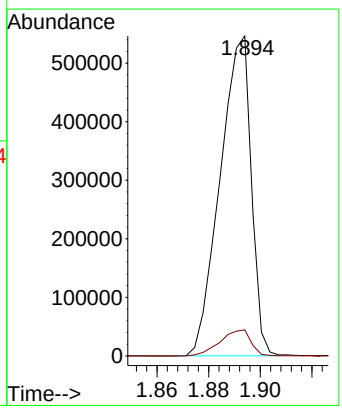


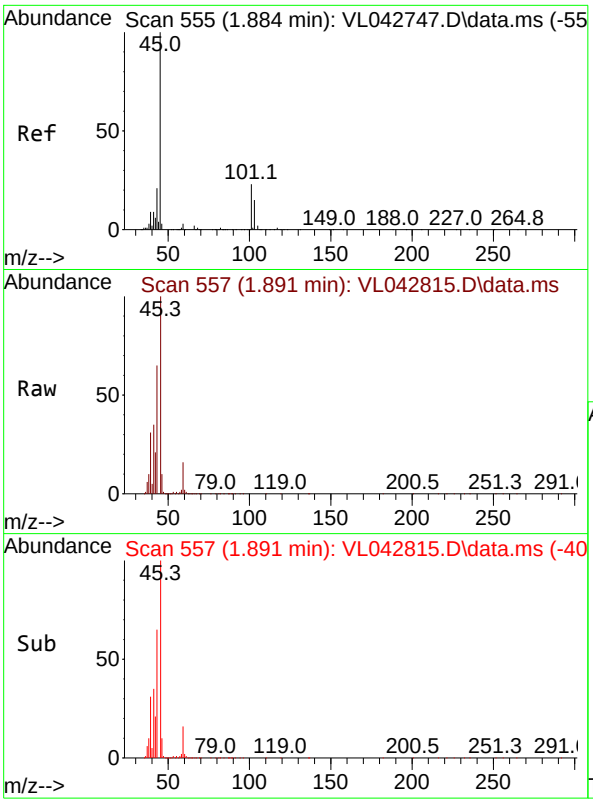


#17
tert-Butyl alcohol
Concen: 24.178 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.145 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 59 Resp: 457380

Ion	Ratio	Lower	Upper
59	100		
57	8.2	8.3	12.5#



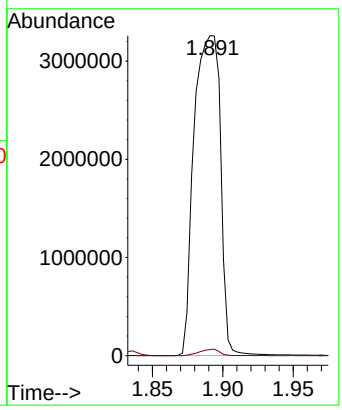


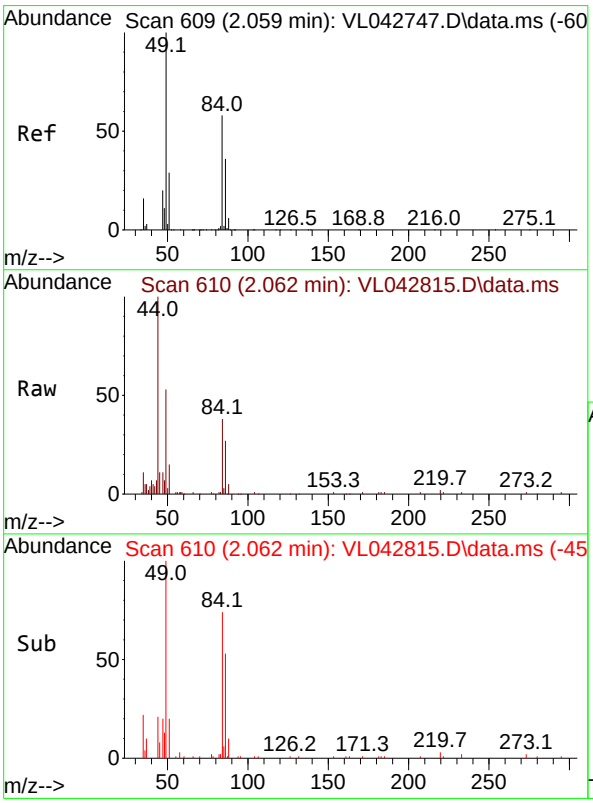
#19
Isopropyl Alcohol
Concen: 380.618 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion: 45 Resp: 4242568

Ion	Ratio	Lower	Upper
45	100		
58	1.6	30.0	45.0#

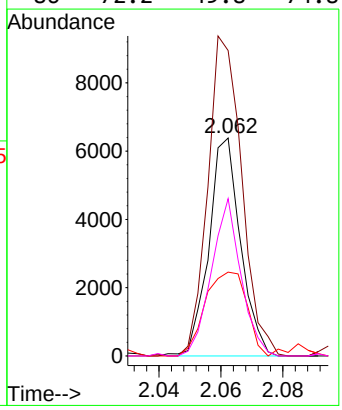


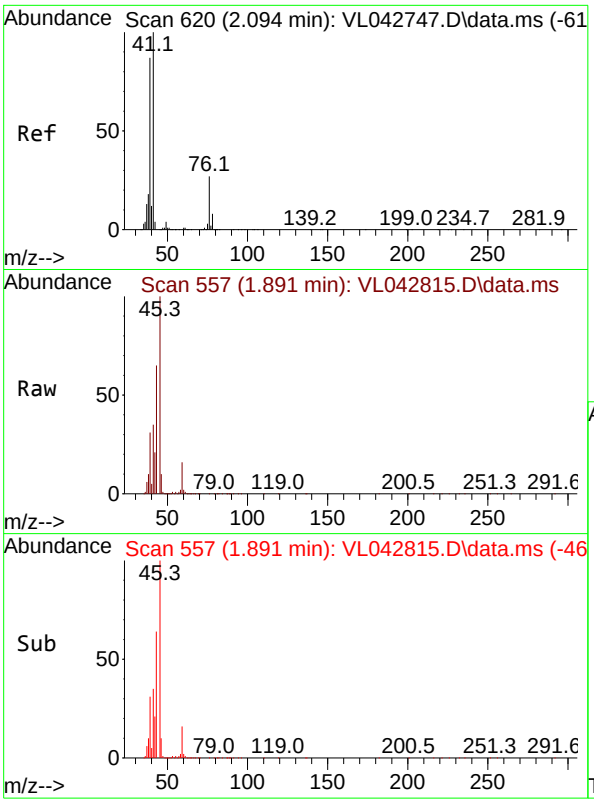


#20
Methylene Chloride
Concen: 0.685 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 84 Resp: 4526

Ion	Ratio	Lower	Upper
84	100		
49	140.2	138.6	208.0
51	38.5	40.6	61.0#
86	72.2	49.8	74.8



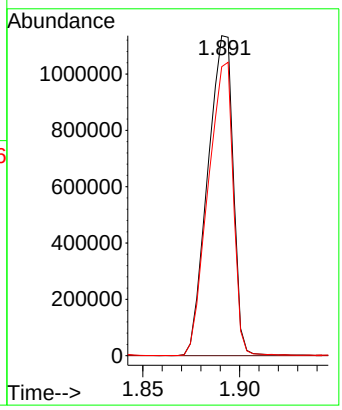


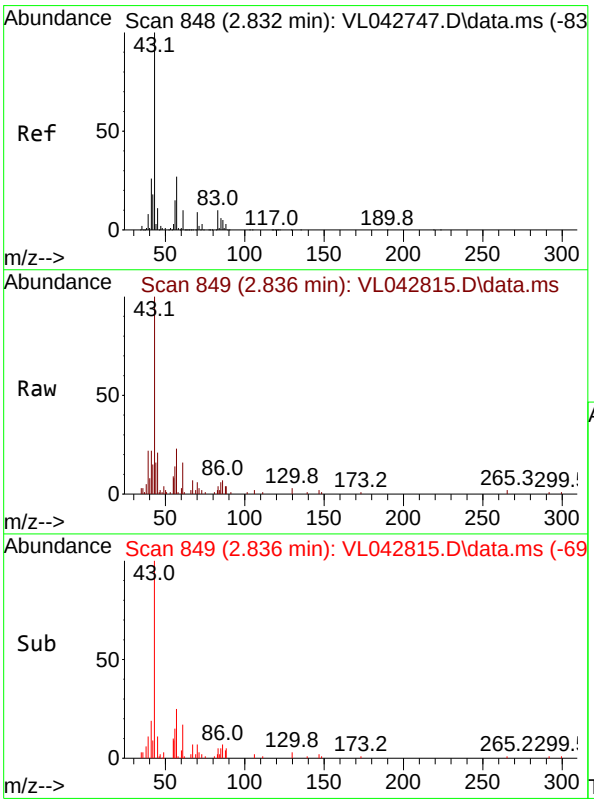
#21
Allyl Chloride
Concen: 80.042 ppbv
RT: 1.891 min Scan# 5
Delta R.T. -0.204 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion: 41 Resp: 1034738

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.1	31.7#
39	90.5	68.3	102.5

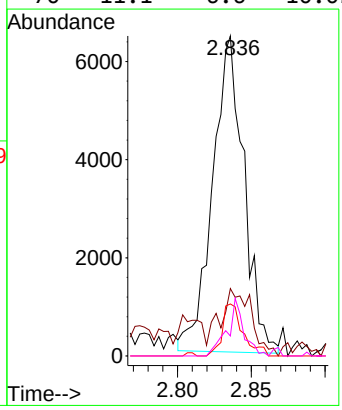


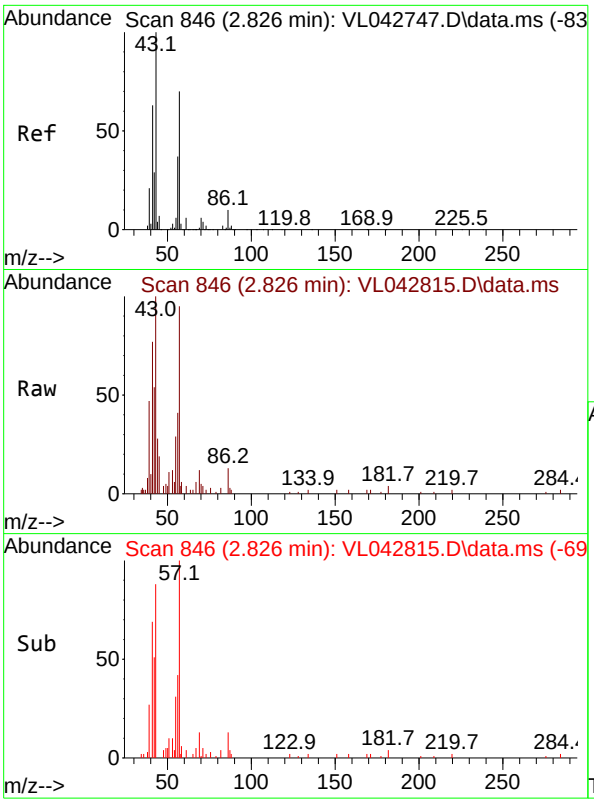


#25
Ethyl Acetate
Concen: 0.205 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 43 Resp: 9523

Ion	Ratio	Lower	Upper
43	100		
45	20.0	7.8	11.6#
61	11.1	6.7	10.1#
70	11.1	6.6	10.0#



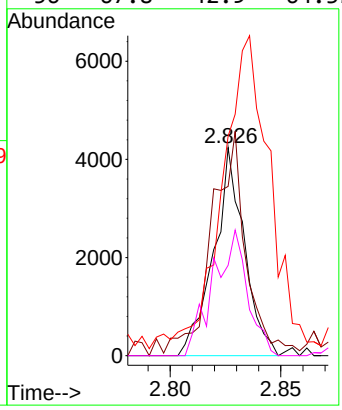


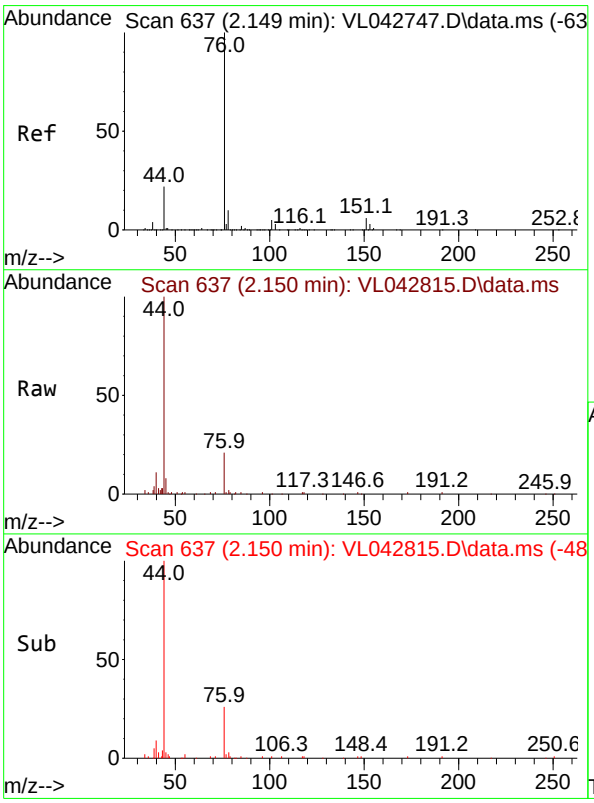
#26
Hexane
Concen: 0.200 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion: 57 Resp: 4065

Ion	Ratio	Lower	Upper
57	100		
41	120.2	75.4	113.2#
43	257.2	185.0	277.6
56	67.8	42.9	64.3#

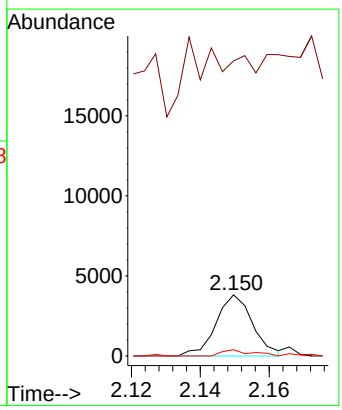


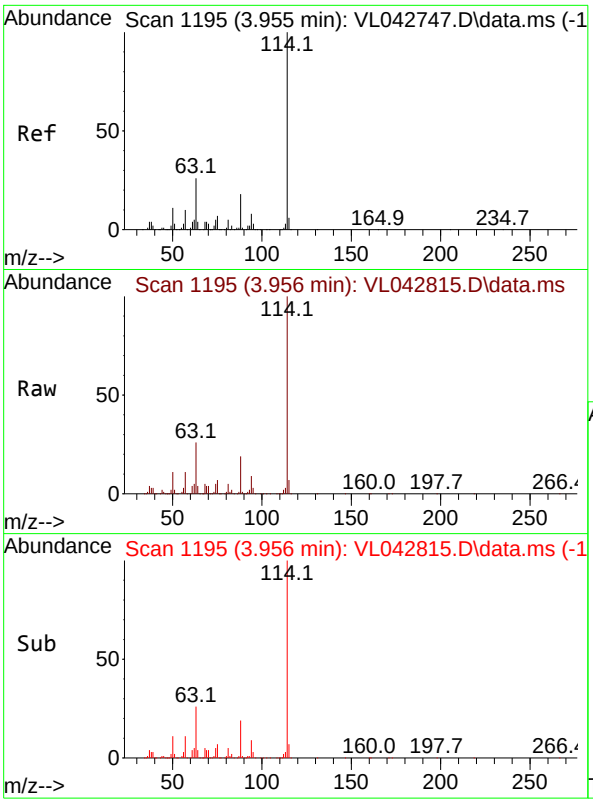


#27
Carbon Disulfide
Concen: 0.162 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 76 Resp: 2818

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	10.9	9.9	14.9



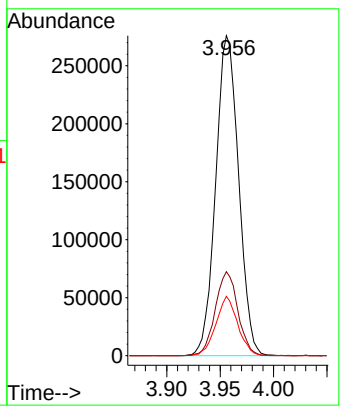


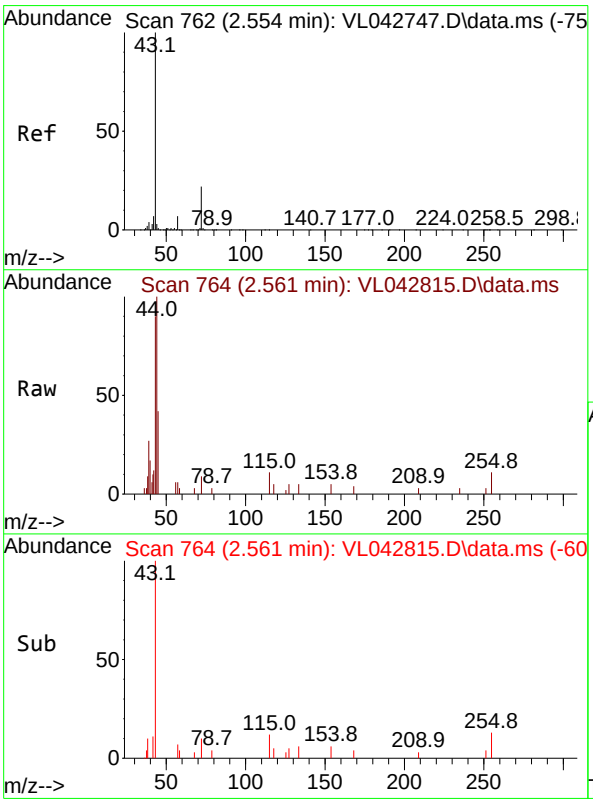
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion:114 Resp: 412340

Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.5	30.7
88	17.7	14.0	21.0

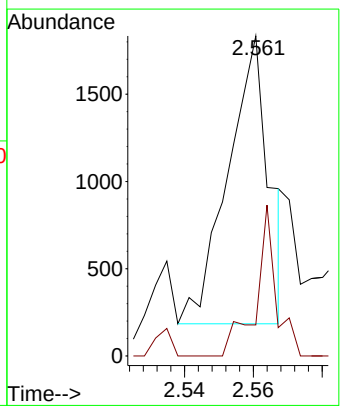


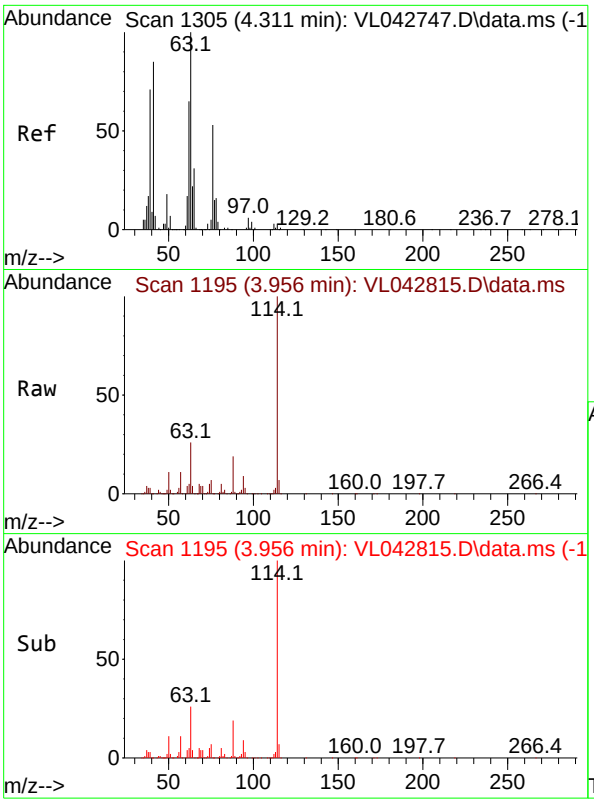


#34
2-Butanone
Concen: 0.047 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.007 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 43 Resp: 1369

Ion	Ratio	Lower	Upper
43	100		
72	31.6	17.4	26.0#



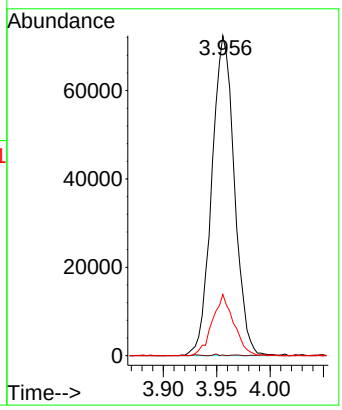


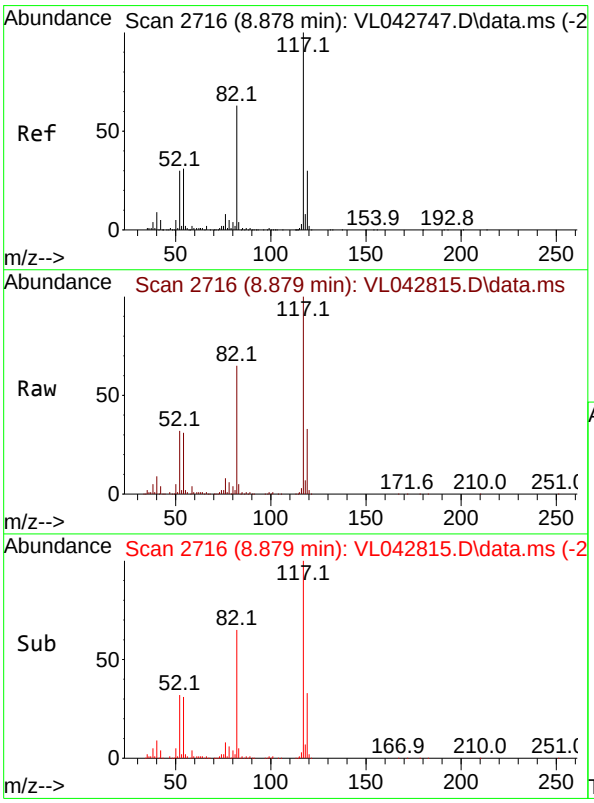
#39
1,2-Dichloropropane
Concen: 7.398 ppbv
RT: 3.956 min Scan# 11
Delta R.T. -0.356 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion: 63 Resp: 106714

Ion	Ratio	Lower	Upper
63	100		
41	0.2	68.2	102.4#
62	19.1	52.0	78.0#

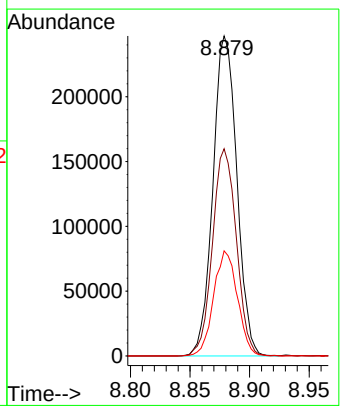


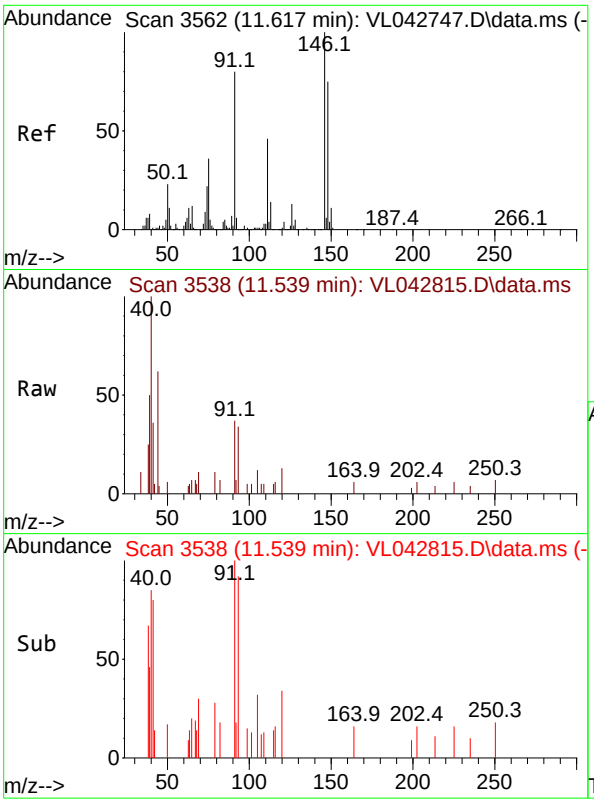


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion:117 Resp: 344266

Ion	Ratio	Lower	Upper
117	100		
82	64.6	53.3	79.9
119	32.7	25.8	38.6



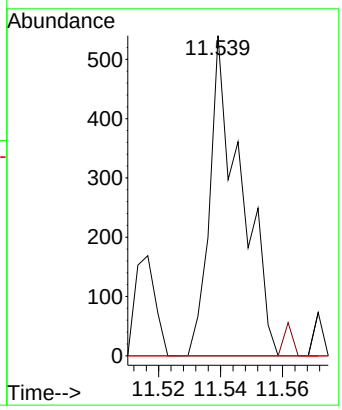


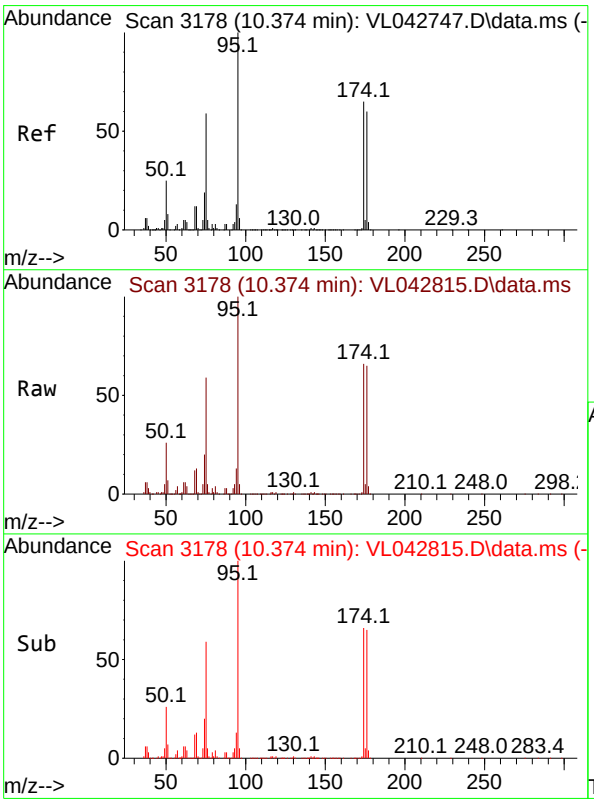
#66
Benzyl Chloride
Concen: 0.081 ppbv
RT: 11.539 min Scan# 3
Delta R.T. -0.077 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion: 91 Resp: 378

Ion	Ratio	Lower	Upper
91	100		
126	11.6	14.4	21.6#
128	0.0	5.2	7.8#

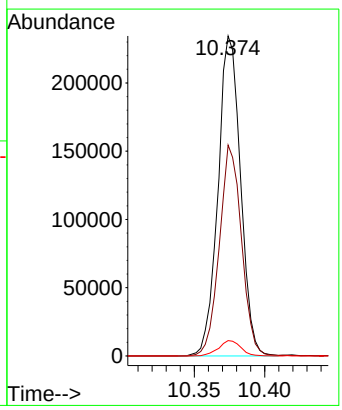


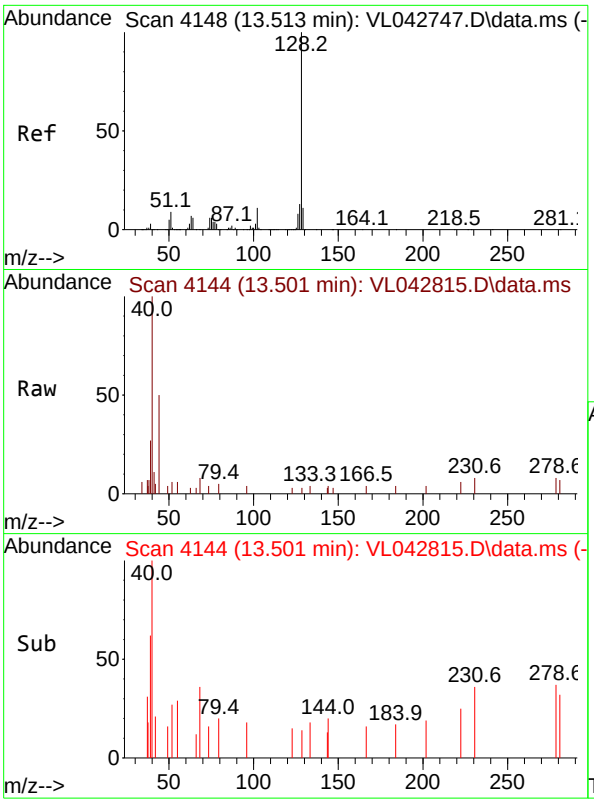


#68
1-Bromo-4-Fluorobenzene
Concen: 9.584 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 95 Resp: 261303

Ion	Ratio	Lower	Upper
95	100		
174	65.0	53.8	80.6
175	4.8	4.0	6.0



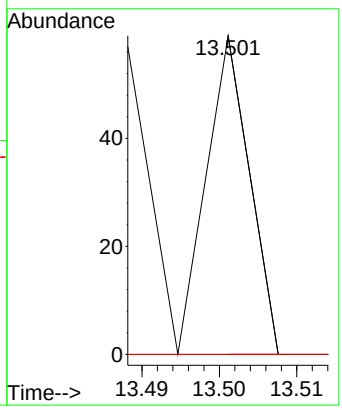


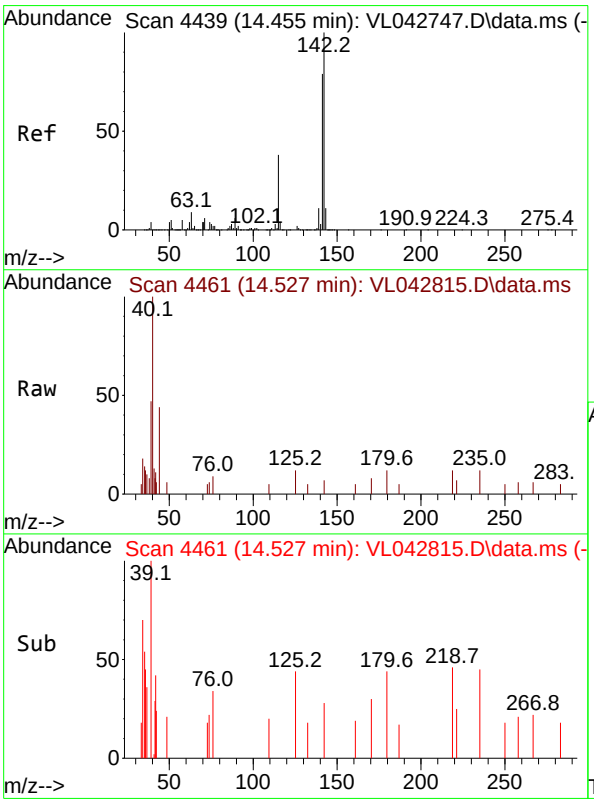
#79
Naphthalene
Concen: 0.435 ppbv
RT: 13.501 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion:128 Resp: 11

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	13.0#

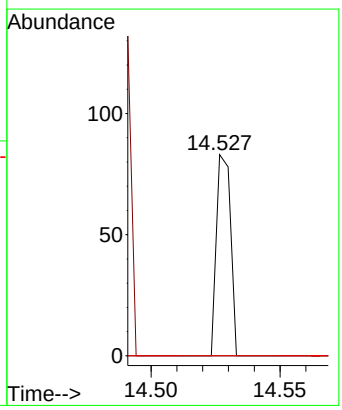


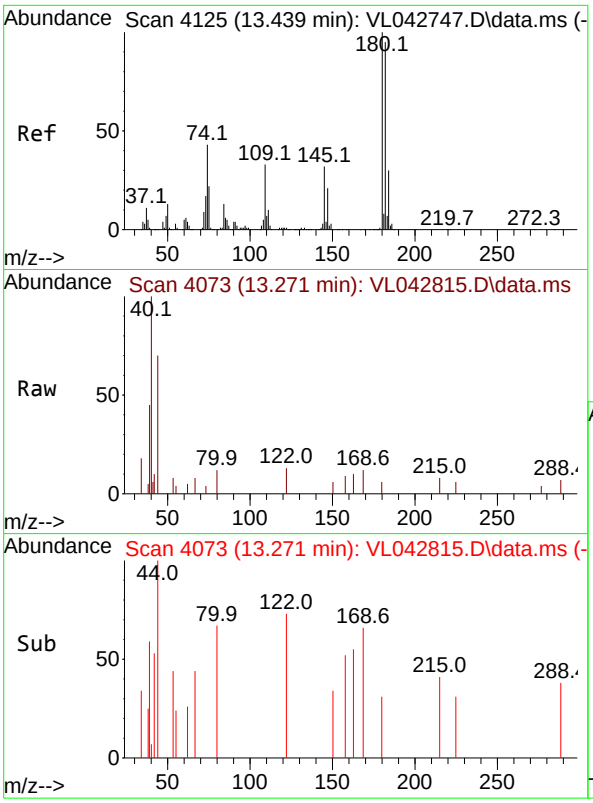


#80
Naphthalene,2-methyl-
Concen: 1.130 ppbv
RT: 14.527 min Scan# 4461
Delta R.T. 0.071 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion:142 Resp: 31

Ion	Ratio	Lower	Upper
142	100		
141	135.5	65.8	98.8#
115	203.2	31.2	46.8#



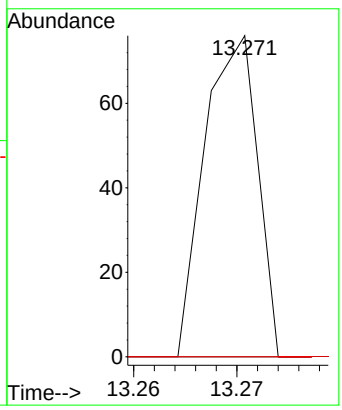


#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.271 min Scan# 4
Delta R.T. -0.168 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

Tgt Ion:180 Resp: 27

Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.2	114.2
184	255.6	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042816.D
Acq On : 04 Aug 2025 21:23
Operator : SY/MD
Sample : Q2750-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Quant Time: Aug 05 01:13:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

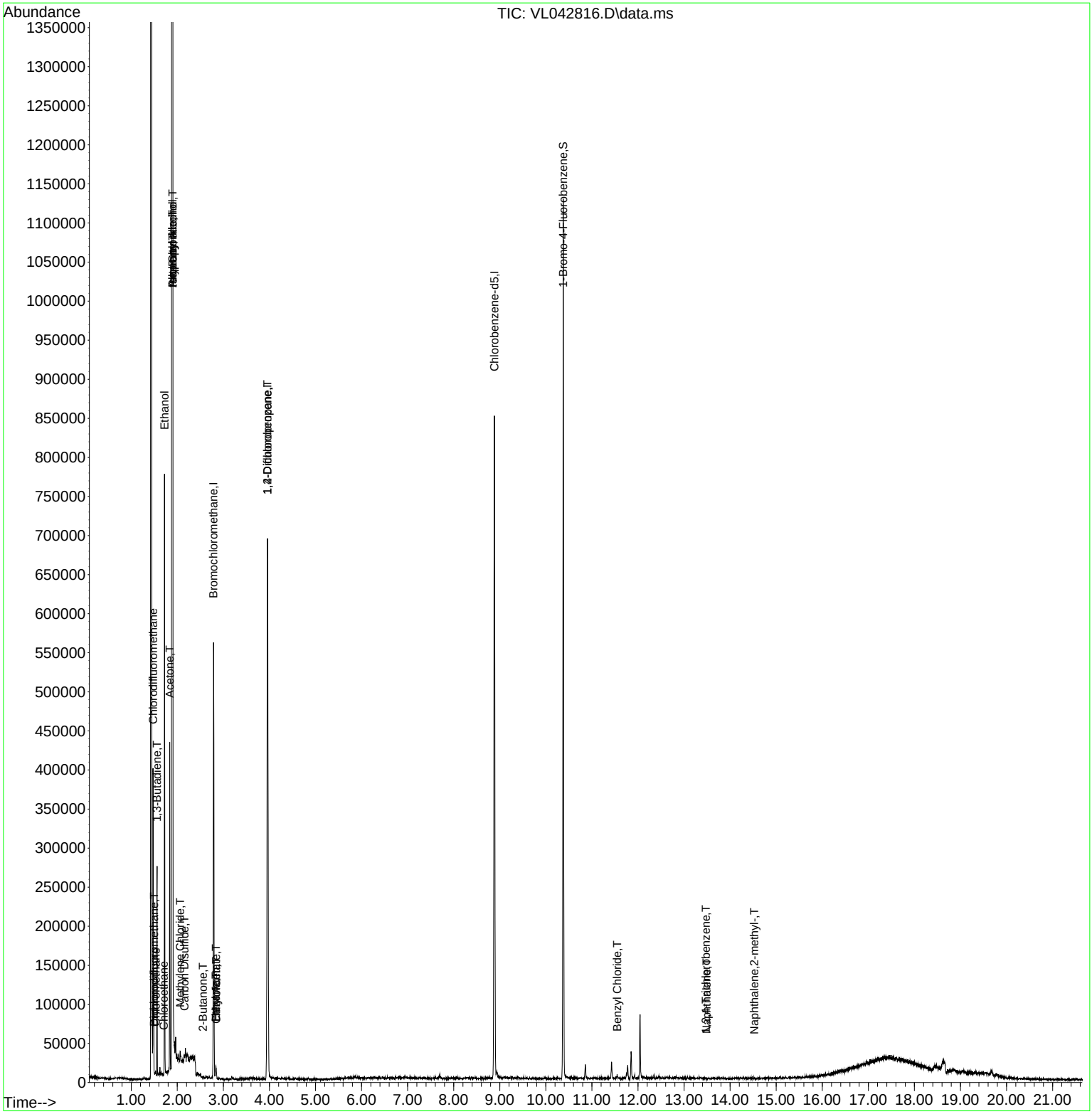
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	149392	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	386690	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	329987	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	255046	9.760	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	662	0.034	ppbv		90
3) Chlorodifluoromethane	1.473	51	125546	4.879	ppbv		99
4) Chloromethane	1.531	50	450	0.056	ppbv	#	85
7) Chloroethane	1.706	64	81	0.027	ppbv	#	45
9) Propene	1.897	41	1246761	133.321	ppbv		94
13) Ethanol	1.722	45	266265	389.889	ppbv		89
15) Acetone	1.835	43	173387	8.405	ppbv		99
16) 1,3-Butadiene	1.560	39	15065	1.712	ppbv	#	18
17) tert-Butyl alcohol	1.897	59	556007	29.885	ppbv		95
19) Isopropyl Alcohol	1.897	45	4676481	426.595	ppbv	#	40
20) Methylene Chloride	2.065	84	1787	0.275	ppbv	#	75
21) Allyl Chloride	1.897	41	1246761	98.064	ppbv	#	84
25) Ethyl Acetate	2.839	43	8979	0.197	ppbv	#	64
26) Hexane	2.836	57	1328	0.066	ppbv	#	1
27) Carbon Disulfide	2.153	76	2754	0.161	ppbv	#	1
29) Chloroform	2.845	83	639	0.021	ppbv		87
34) 2-Butanone	2.557	43	747	0.027	ppbv	#	54
39) 1,2-Dichloropropane	3.959	63	101418	7.497	ppbv	#	21
66) Benzyl Chloride	11.549	91	217	0.048	ppbv	#	73
79) Naphthalene	13.491	128	19	0.435	ppbv	#	69
80) Naphthalene,2-methyl-	14.523	142	54	1.130	ppbv	#	58
81) 1,2,4-Trichlorobenzene	13.474	180	48	0.437	ppbv	#	36

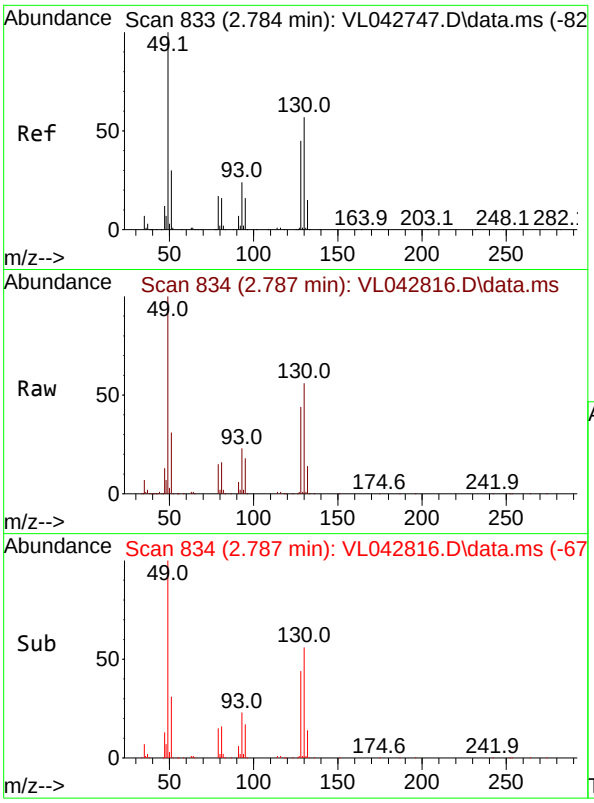
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042816.D
Acq On : 04 Aug 2025 21:23
Operator : SY/MD
Sample : Q2750-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Quant Time: Aug 05 01:13:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



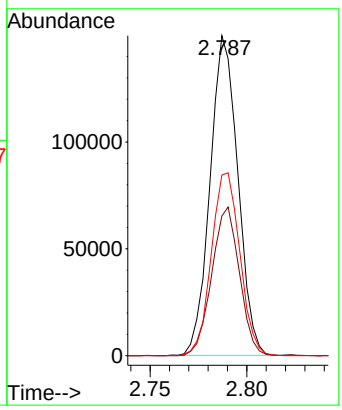


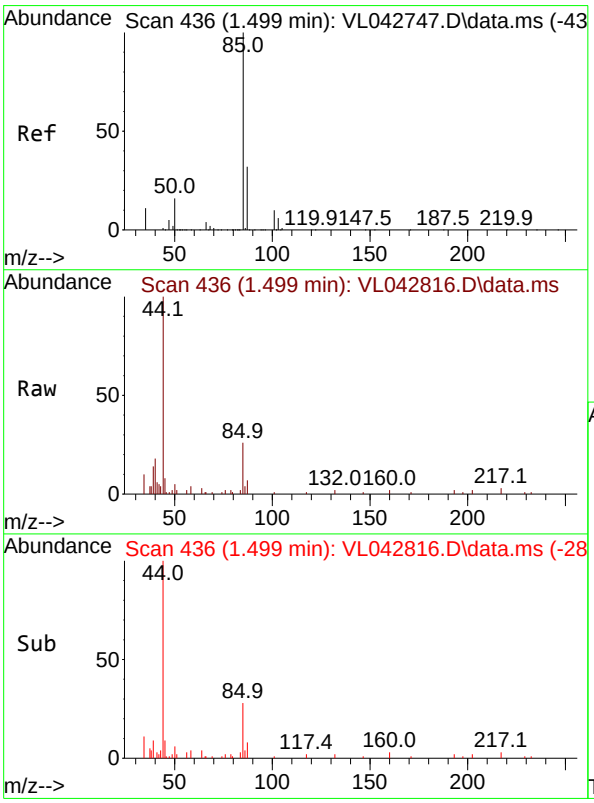
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Tgt Ion: 49 Resp: 149392

Ion	Ratio	Lower	Upper
49	100		
128	46.4	23.6	71.0
130	58.8	30.3	90.8

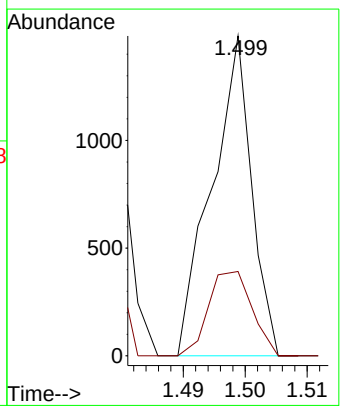


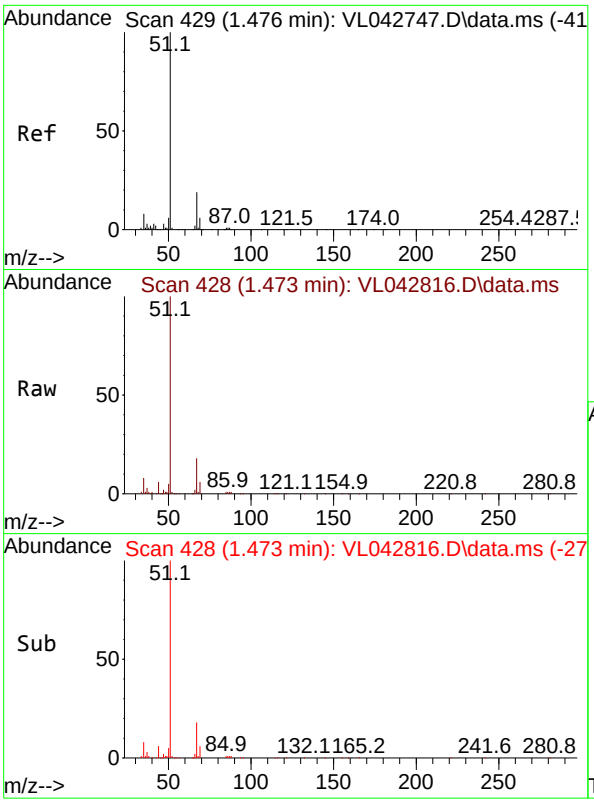


#2
Dichlorodifluoromethane
Concen: 0.034 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 85 Resp: 662

Ion	Ratio	Lower	Upper
85	100		
87	26.4	25.4	38.2



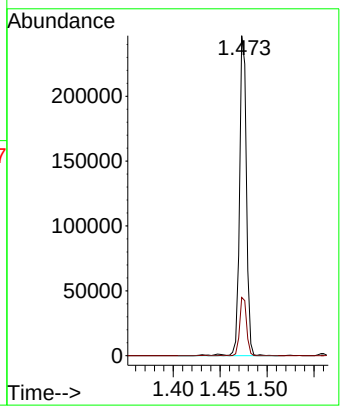


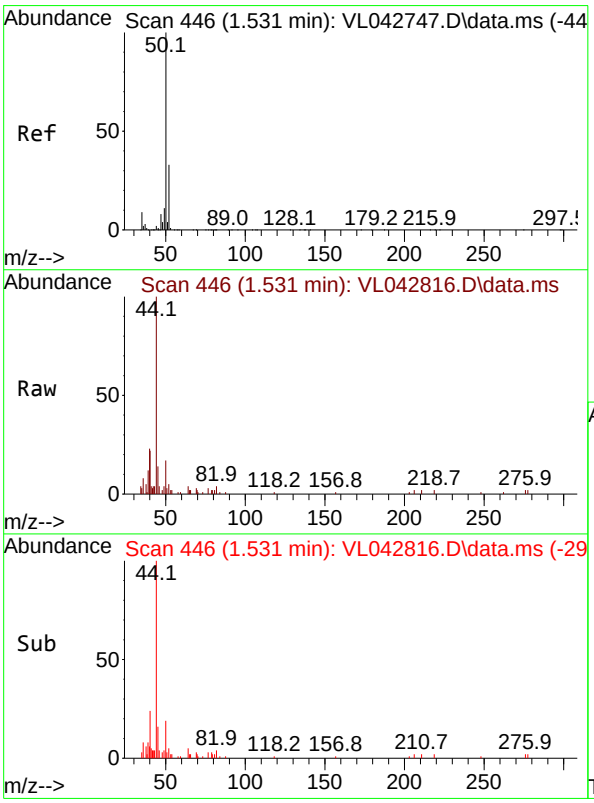
#3
Chlorodifluoromethane
Concen: 4.879 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Tgt Ion: 51 Resp: 125546

Ion	Ratio	Lower	Upper
51	100		
67	18.2	15.0	22.6

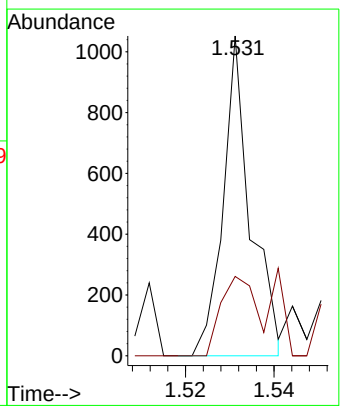


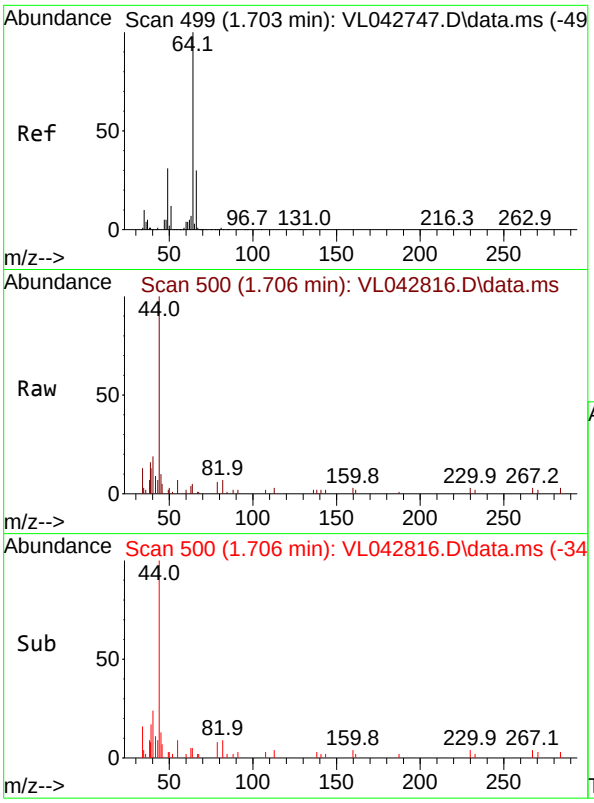


#4
Chloromethane
Concen: 0.056 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 50 Resp: 450

Ion	Ratio	Lower	Upper
50	100		
52	24.8	26.6	40.0#



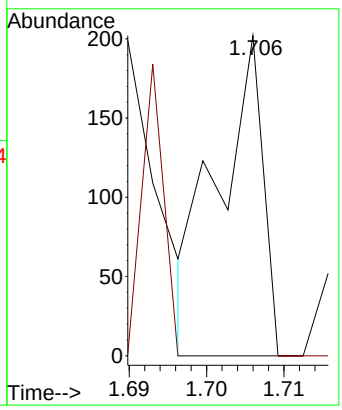


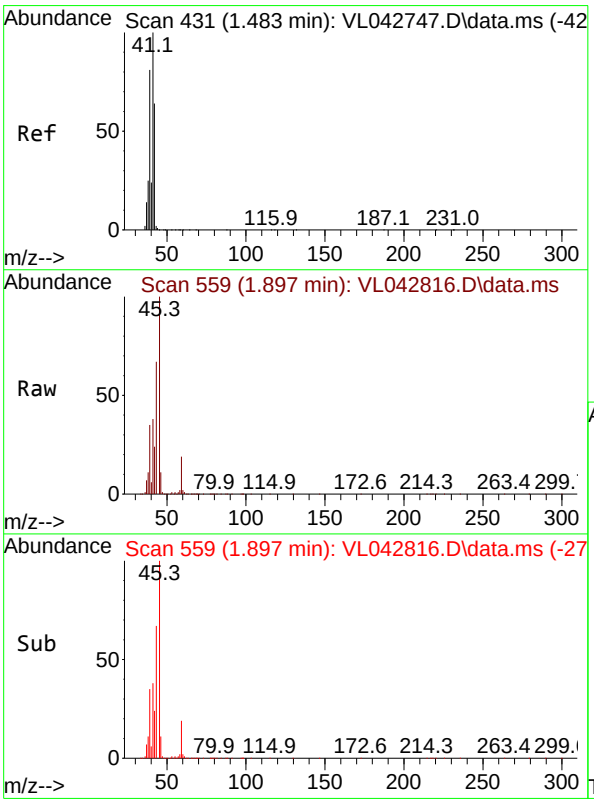
#7
Chloroethane
Concen: 0.027 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Tgt Ion: 64 Resp: 81

Ion	Ratio	Lower	Upper
64	100		
66	0.0	24.1	36.1#

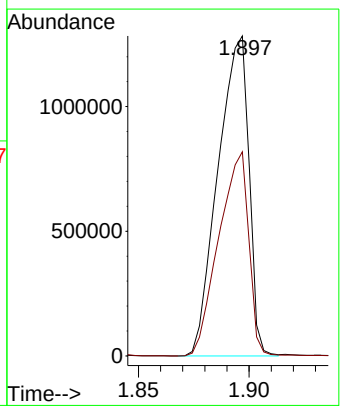


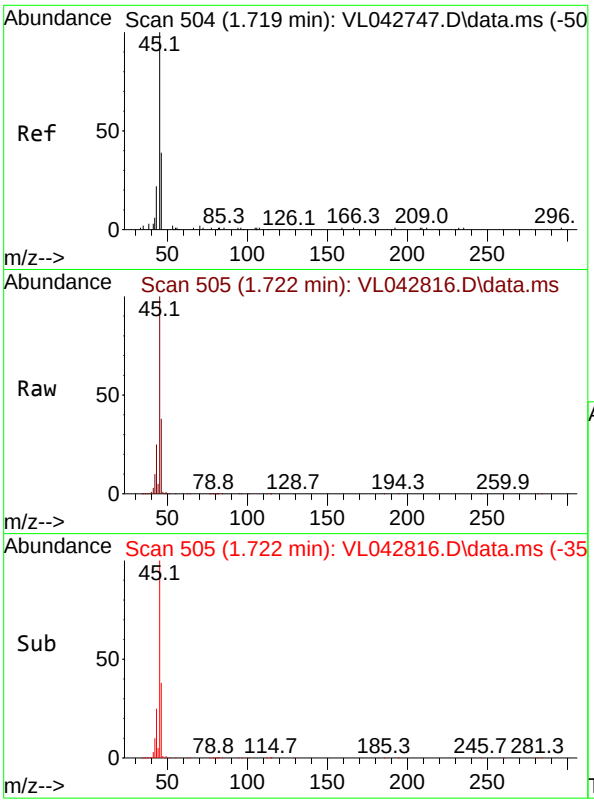


#9
Propene
Concen: 133.321 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.414 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 41 Resp: 1246761

Ion	Ratio	Lower	Upper
41	100		
42	61.8	53.2	79.8



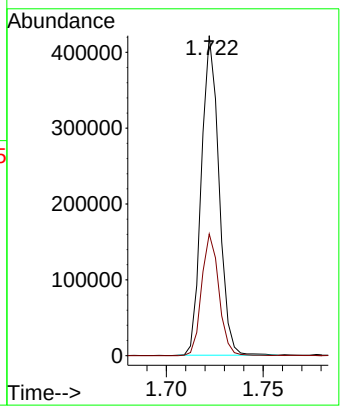


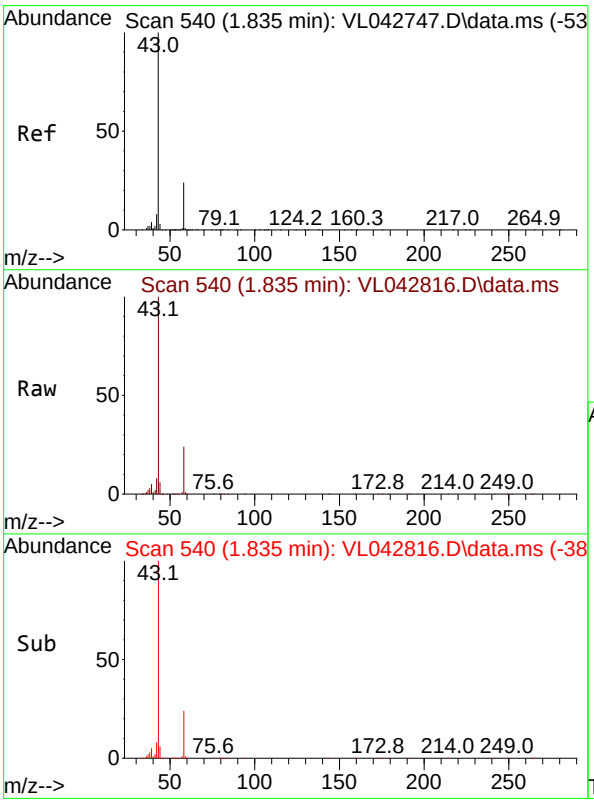
#13
Ethanol
Concen: 389.889 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Tgt Ion: 45 Resp: 266265

Ion	Ratio	Lower	Upper
45	100		
46	37.7	17.8	71.4

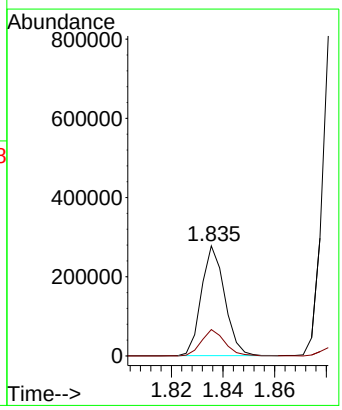


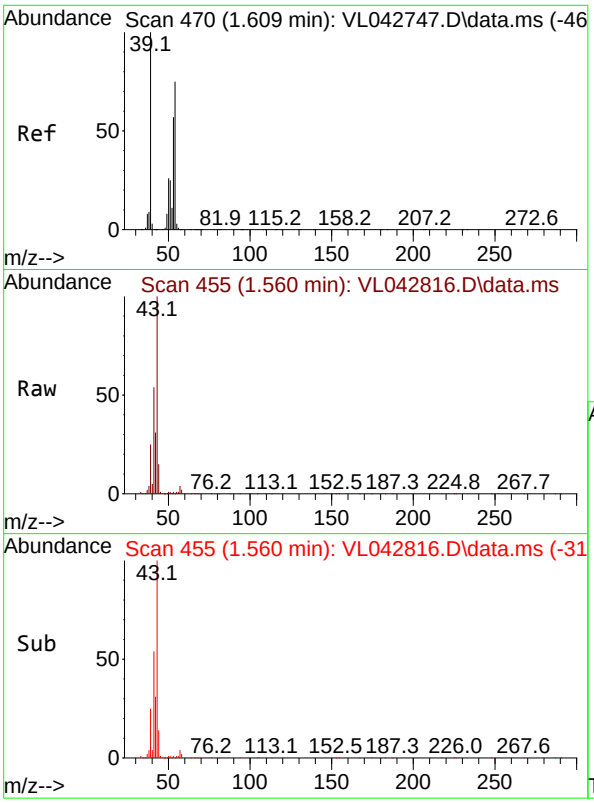


#15
Acetone
Concen: 8.405 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 43 Resp: 173387

Ion	Ratio	Lower	Upper
43	100		
58	24.5	19.8	29.8



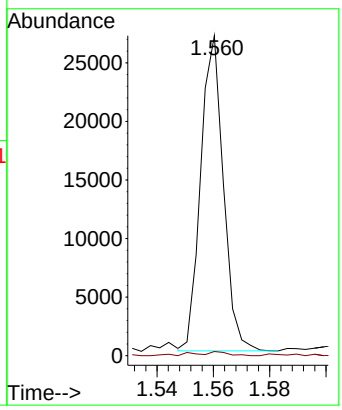


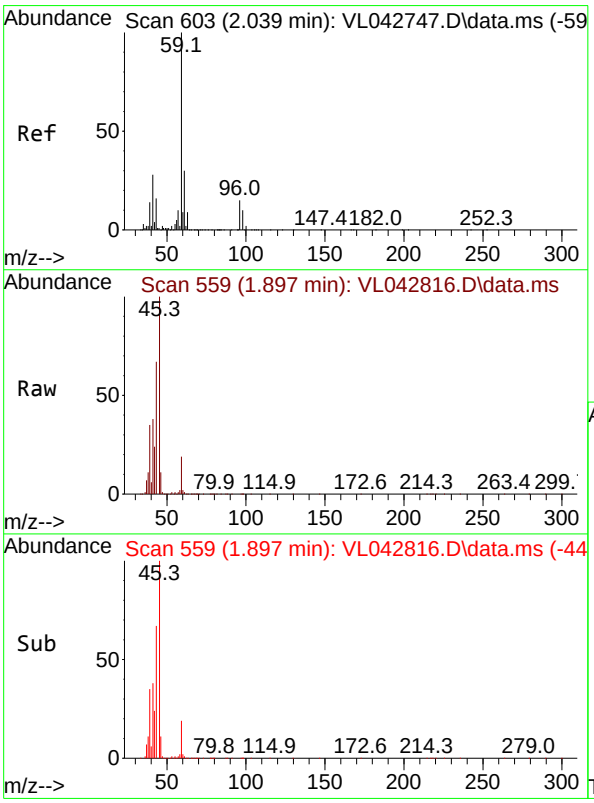
#16
1,3-Butadiene
Concen: 1.712 ppbv
RT: 1.560 min Scan# 4
Delta R.T. -0.049 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Tgt Ion: 39 Resp: 15065

Ion	Ratio	Lower	Upper
39	100		
54	1.9	54.5	81.7#

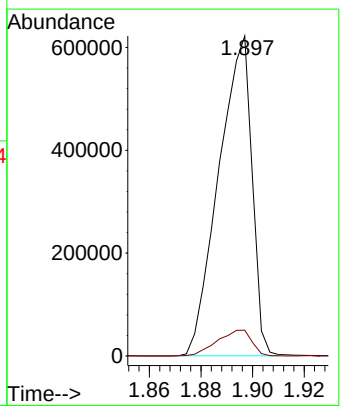


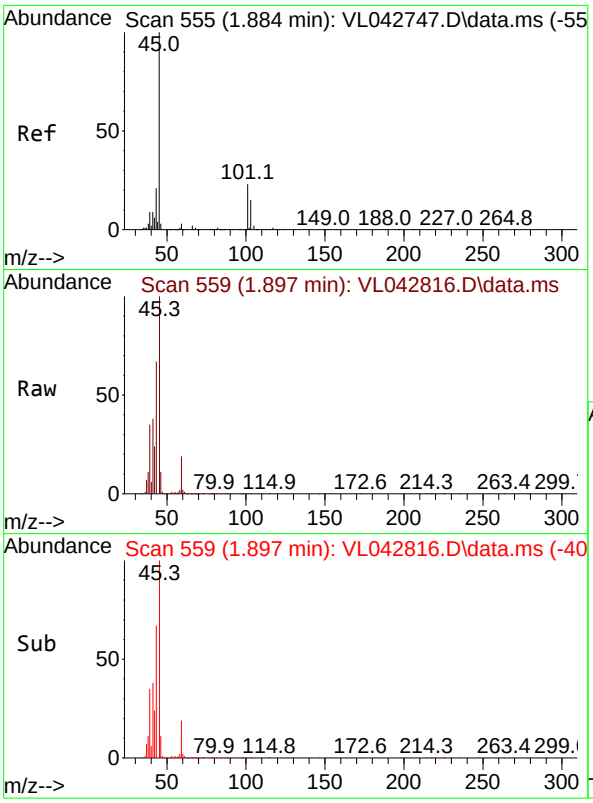


#17
tert-Butyl alcohol
Concen: 29.885 ppbv
RT: 1.897 min Scan# 559
Delta R.T. -0.142 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 59 Resp: 556007

Ion	Ratio	Lower	Upper
59	100		
57	8.5	8.3	12.5



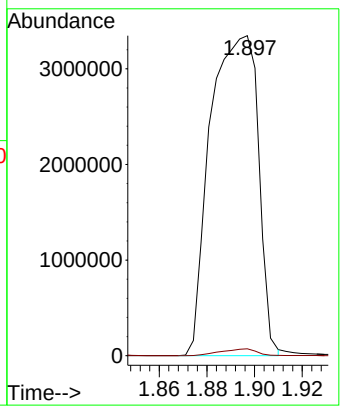


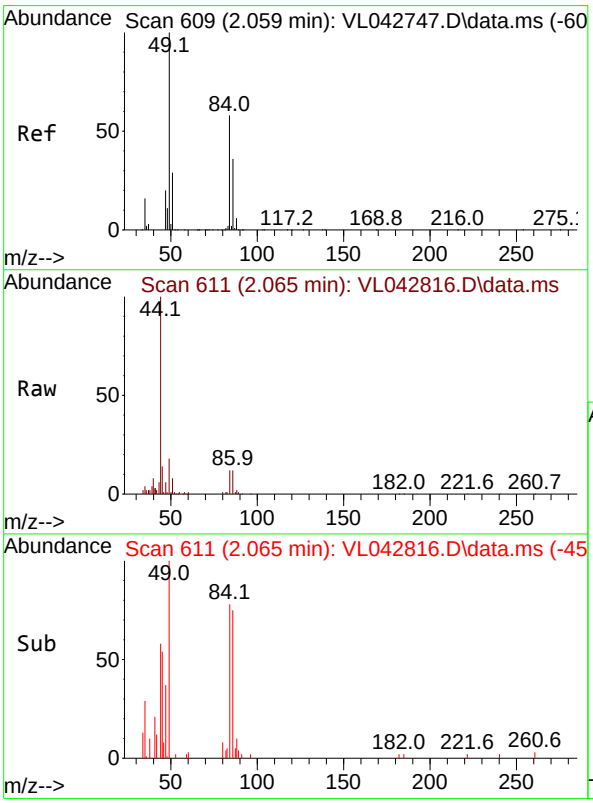
#19
Isopropyl Alcohol
Concen: 426.595 ppbv
RT: 1.897 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Tgt Ion: 45 Resp: 4676481

Ion	Ratio	Lower	Upper
45	100		
58	1.6	30.0	45.0#

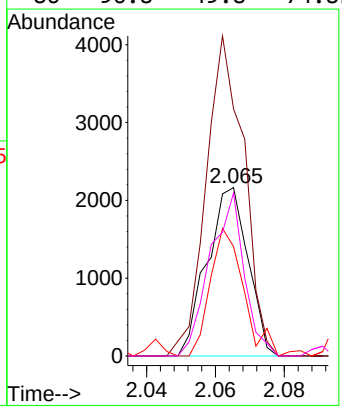


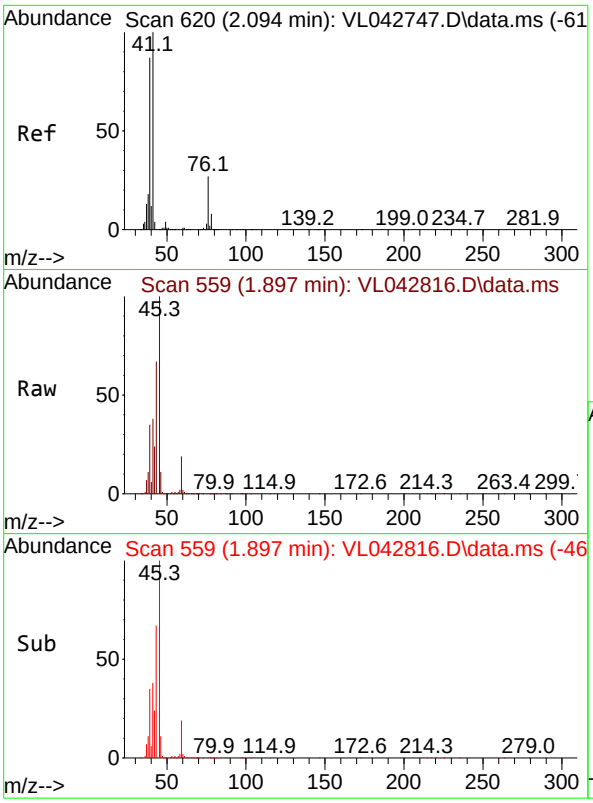


#20
Methylene Chloride
Concen: 0.275 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 84 Resp: 1787

Ion	Ratio	Lower	Upper
84	100		
49	146.7	138.6	208.0
51	64.9	40.6	61.0#
86	96.8	49.8	74.8#



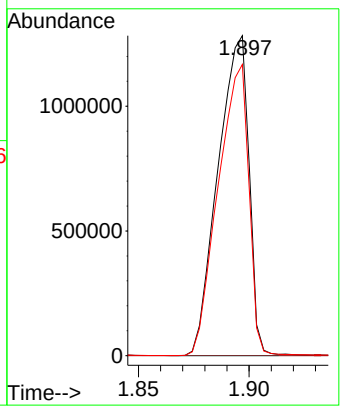


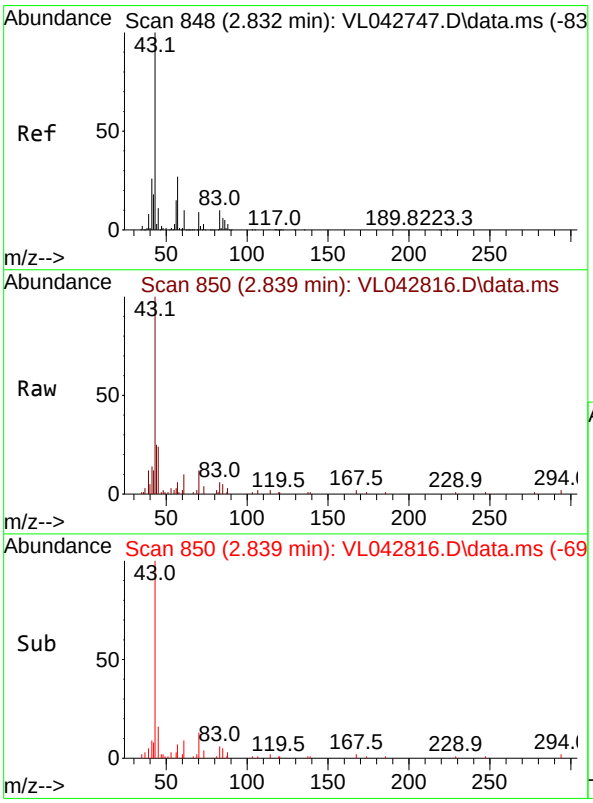
#21
Allyl Chloride
Concen: 98.064 ppbv
RT: 1.897 min Scan# 5
Delta R.T. -0.197 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Tgt Ion: 41 Resp: 1246761

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.1	31.7#
39	90.3	68.3	102.5

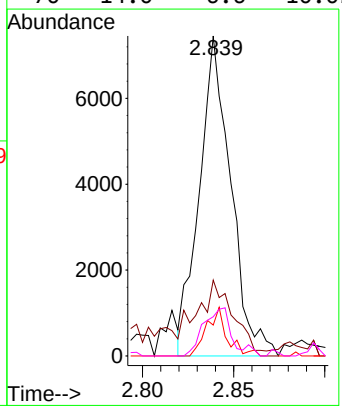


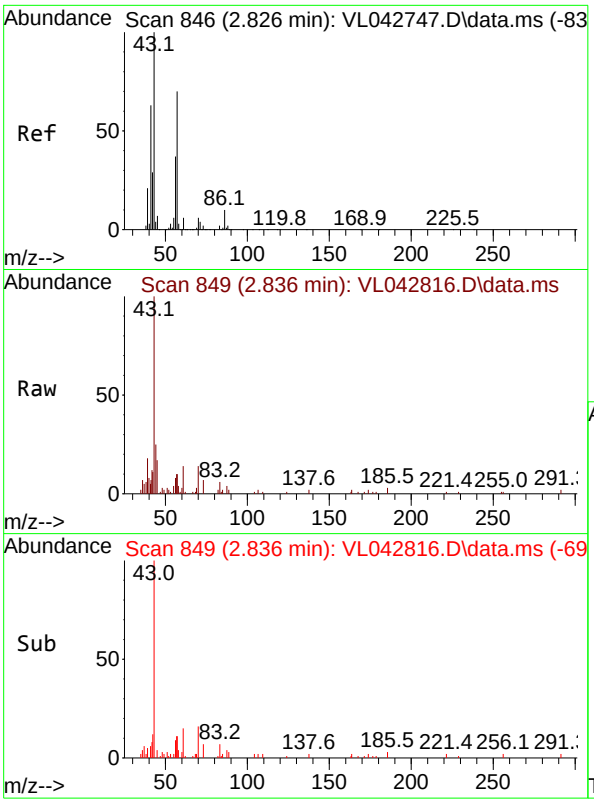


#25
Ethyl Acetate
Concen: 0.197 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.006 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 43 Resp: 8979

Ion	Ratio	Lower	Upper
43	100		
45	39.5	7.8	11.6#
61	9.9	6.7	10.1
70	14.0	6.6	10.0#



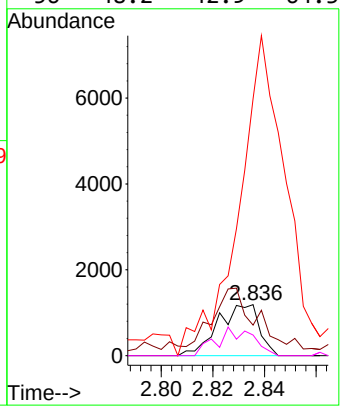


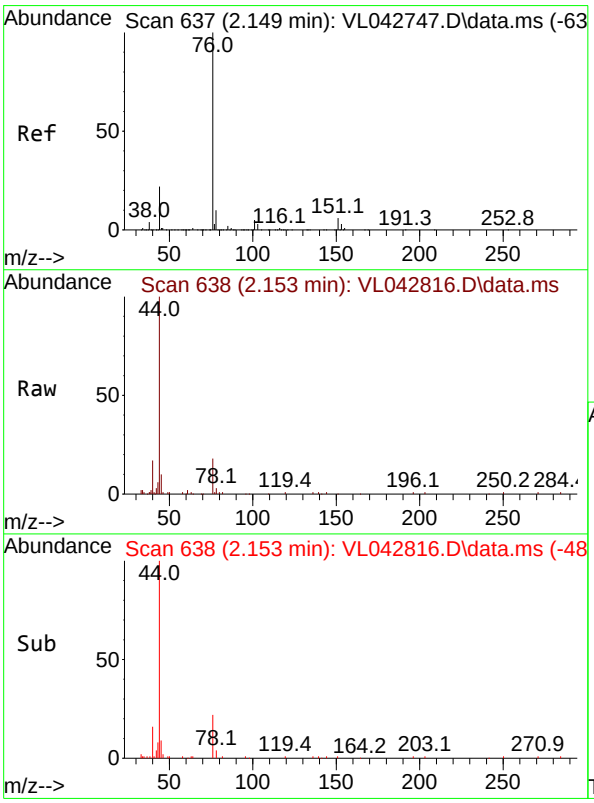
#26
Hexane
Concen: 0.066 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Tgt Ion: 57 Resp: 1328

Ion	Ratio	Lower	Upper
57	100		
41	192.9	75.4	113.2#
43	781.7	185.0	277.6#
56	48.2	42.9	64.3

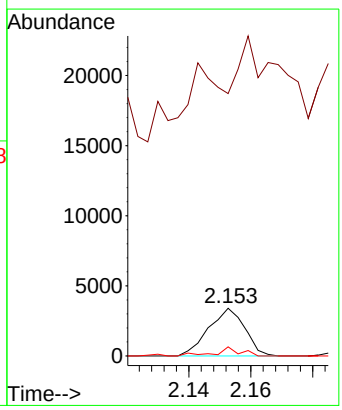


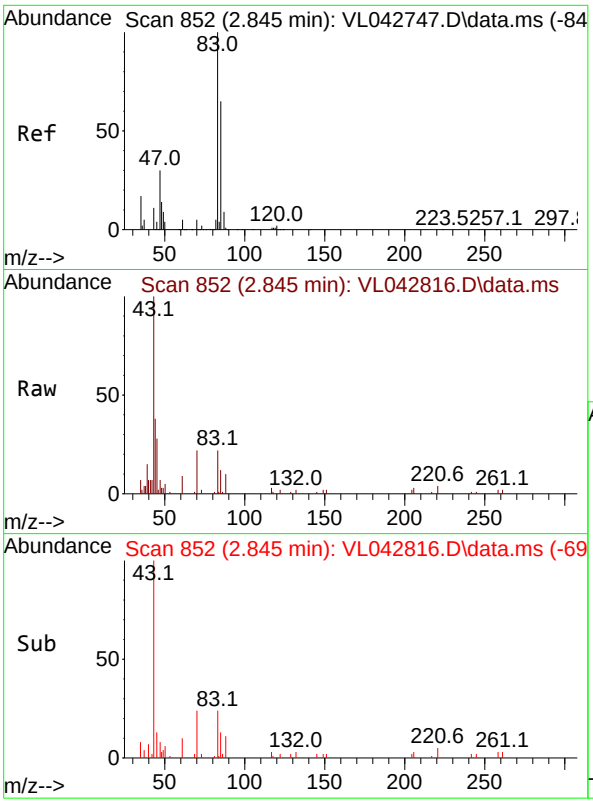


#27
Carbon Disulfide
Concen: 0.161 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 76 Resp: 2754

Ion	Ratio	Lower	Upper
76	100		
44	450.2	19.3	28.9#
78	13.7	9.9	14.9



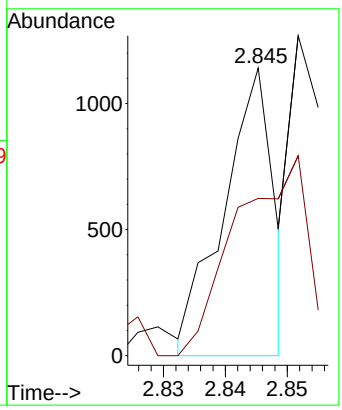


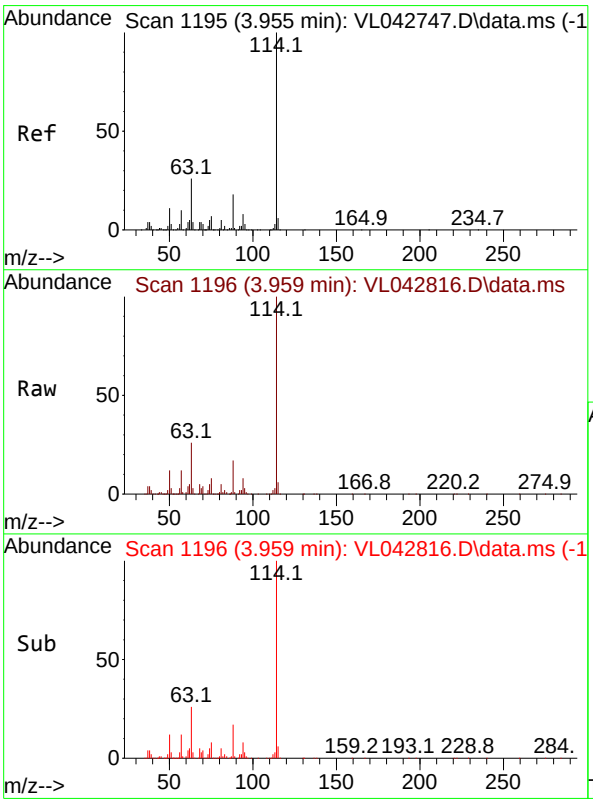
#29
Chloroform
Concen: 0.021 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Tgt Ion: 83 Resp: 639

Ion	Ratio	Lower	Upper
83	100		
85	55.0	52.2	78.2

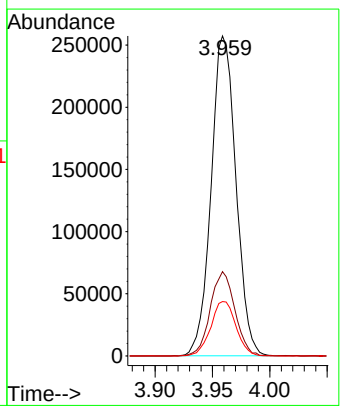


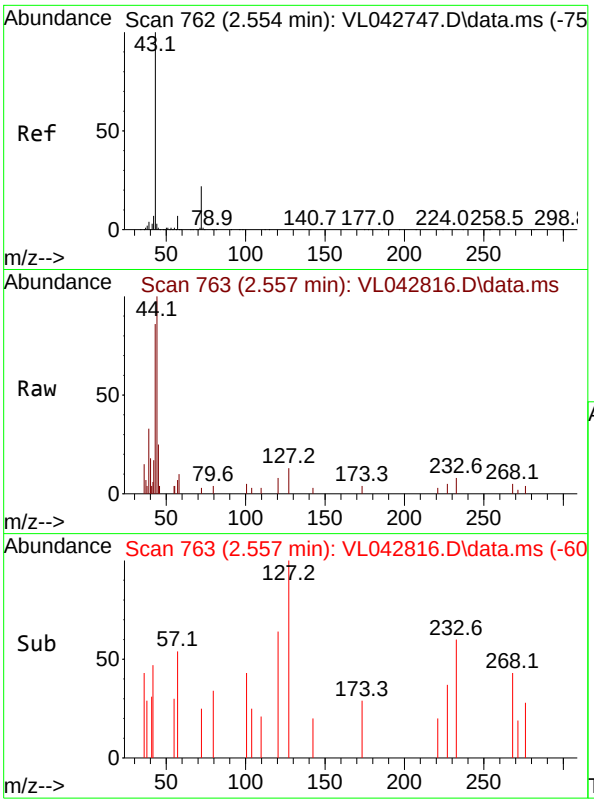


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion:114 Resp: 386690

Ion	Ratio	Lower	Upper
114	100		
63	26.3	20.5	30.7
88	17.3	14.0	21.0



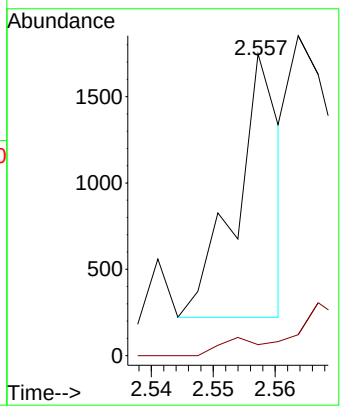


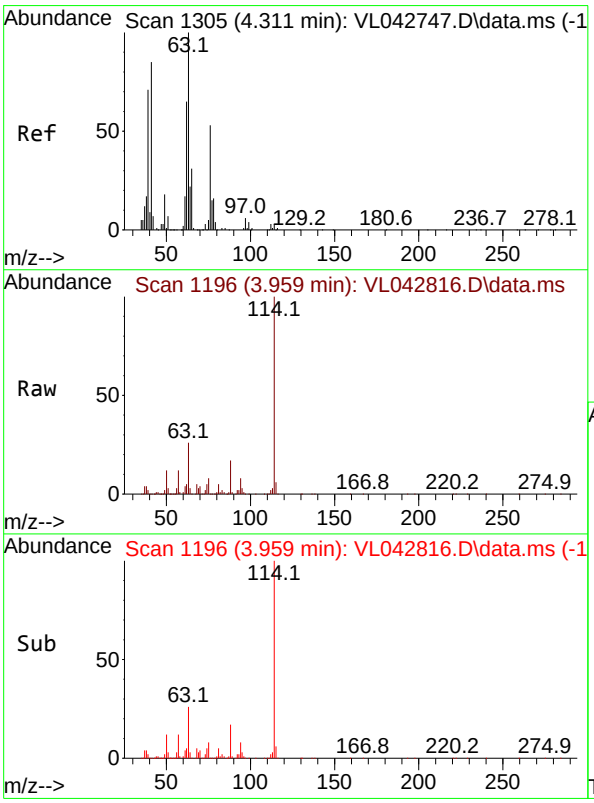
#34
2-Butanone
Concen: 0.027 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Tgt Ion: 43 Resp: 747

Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.4	26.0#

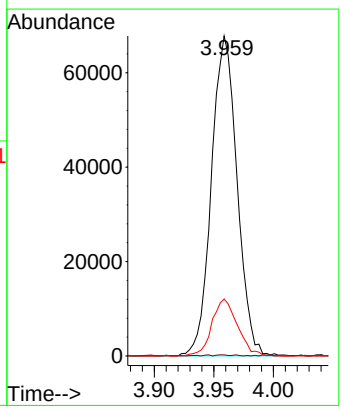


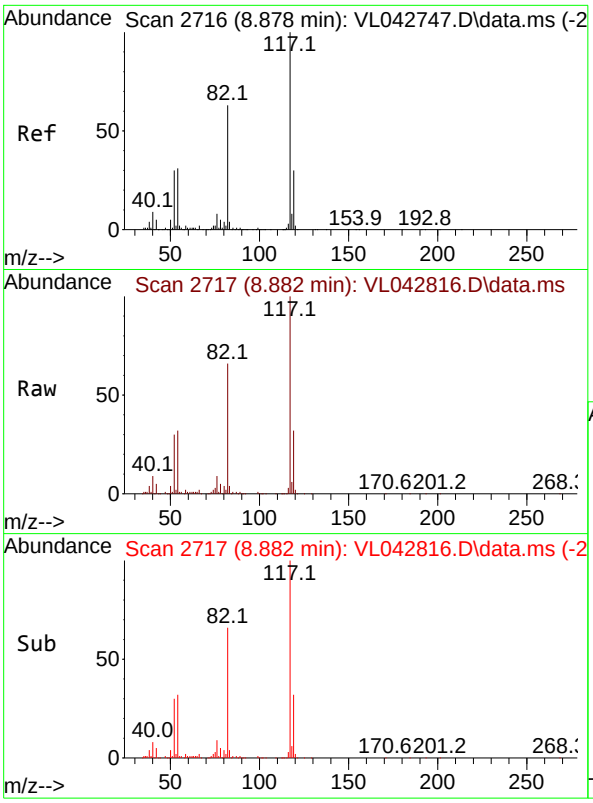


#39
1,2-Dichloropropane
Concen: 7.497 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 63 Resp: 101418

Ion	Ratio	Lower	Upper
63	100		
41	0.3	68.2	102.4#
62	17.8	52.0	78.0#



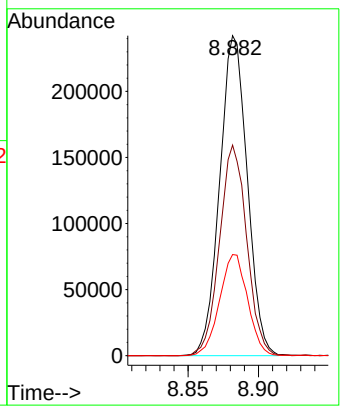


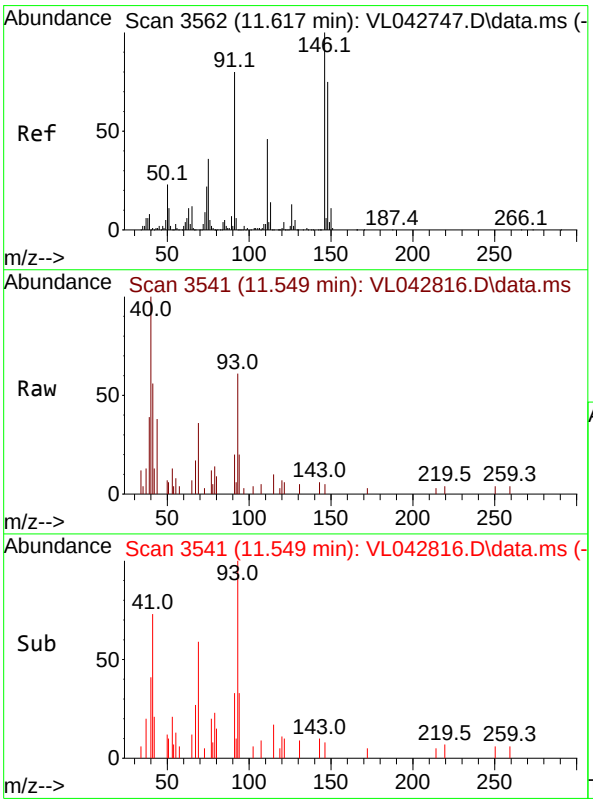
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Tgt Ion:117 Resp: 329987

Ion	Ratio	Lower	Upper
117	100		
82	65.0	53.3	79.9
119	32.2	25.8	38.6

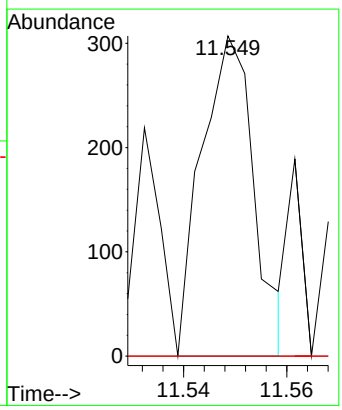


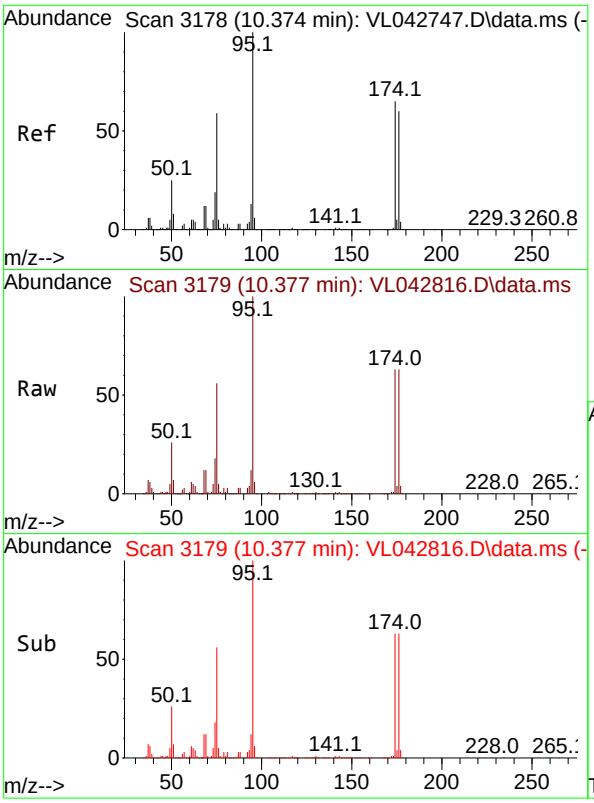


#66
Benzyl Chloride
Concen: 0.048 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. -0.068 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 91 Resp: 217

Ion	Ratio	Lower	Upper
91	100		
126	15.2	14.4	21.6
128	35.5	5.2	7.8#



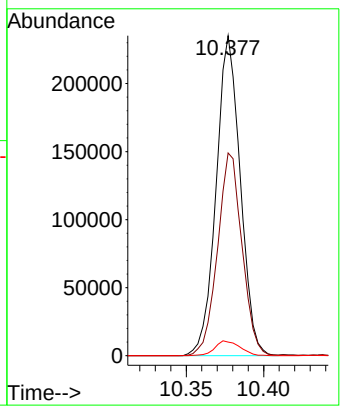


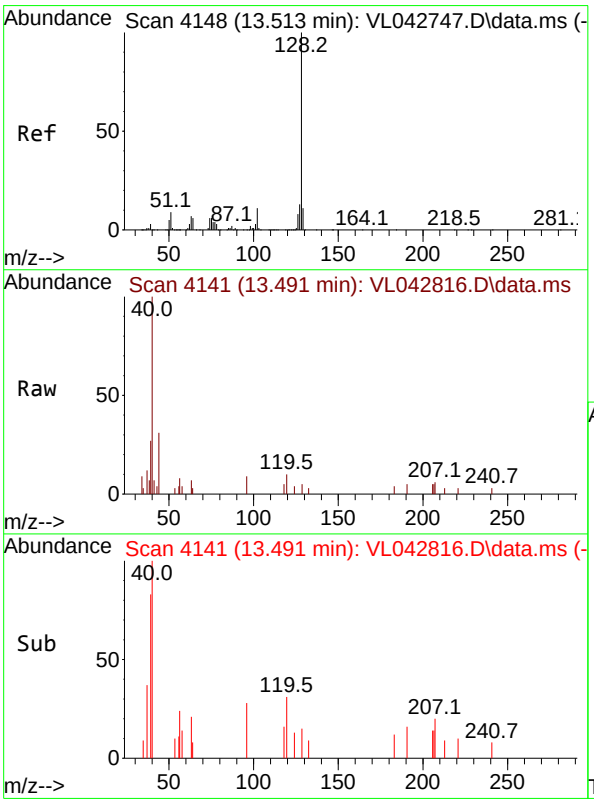
#68
1-Bromo-4-Fluorobenzene
Concen: 9.760 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Tgt Ion: 95 Resp: 255046

Ion	Ratio	Lower	Upper
95	100		
174	64.6	53.8	80.6
175	4.8	4.0	6.0

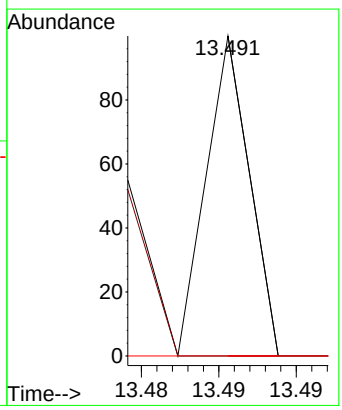


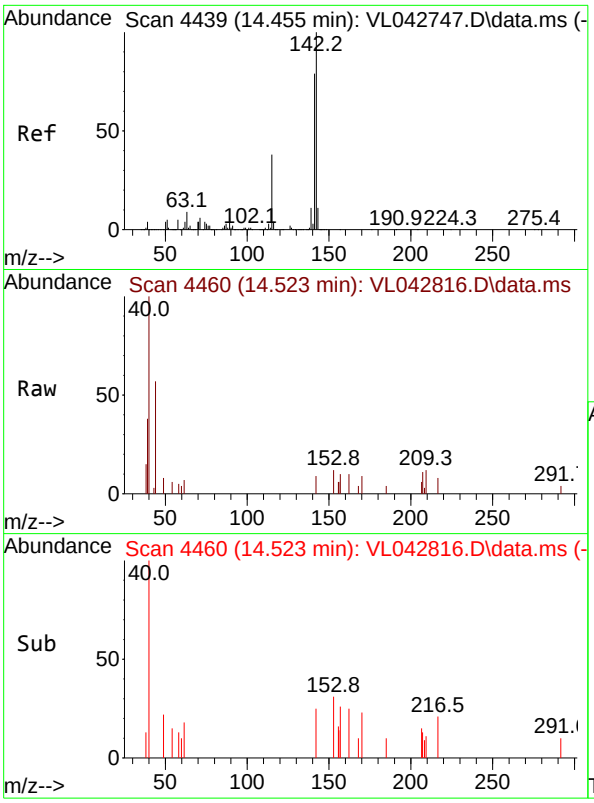


#79
Naphthalene
Concen: 0.435 ppbv
RT: 13.491 min Scan# 4141
Delta R.T. -0.023 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion:128 Resp: 19

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	13.0#



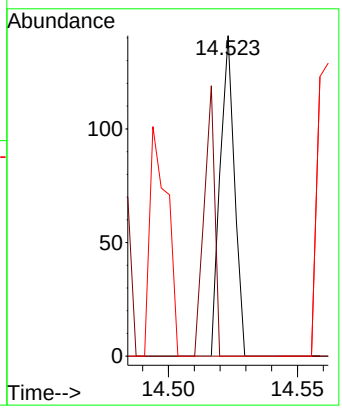


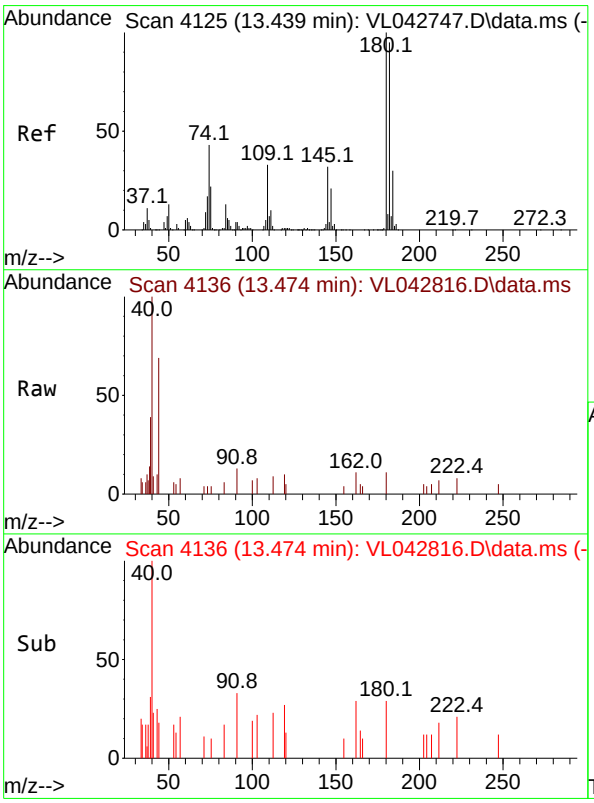
#80
Naphthalene,2-methyl-
Concen: 1.130 ppbv
RT: 14.523 min Scan# 44
Delta R.T. 0.068 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-6DL

Tgt Ion:142 Resp: 54

Ion	Ratio	Lower	Upper
142	100		
141	63.0	65.8	98.8#
115	90.7	31.2	46.8#

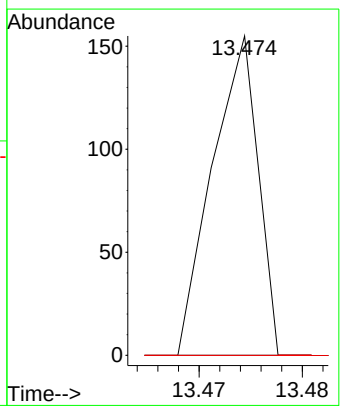




#81
1,2,4-Trichlorobenzene
Concen: 0.437 ppbv
RT: 13.474 min Scan# 4136
Delta R.T. 0.036 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion:180 Resp: 48

Ion	Ratio	Lower	Upper
180	100		
182	20.8	76.2	114.2#
184	45.8	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042817.D
Acq On : 04 Aug 2025 21:57
Operator : SY/MD
Sample : Q2750-06DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Quant Time: Aug 05 01:13:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

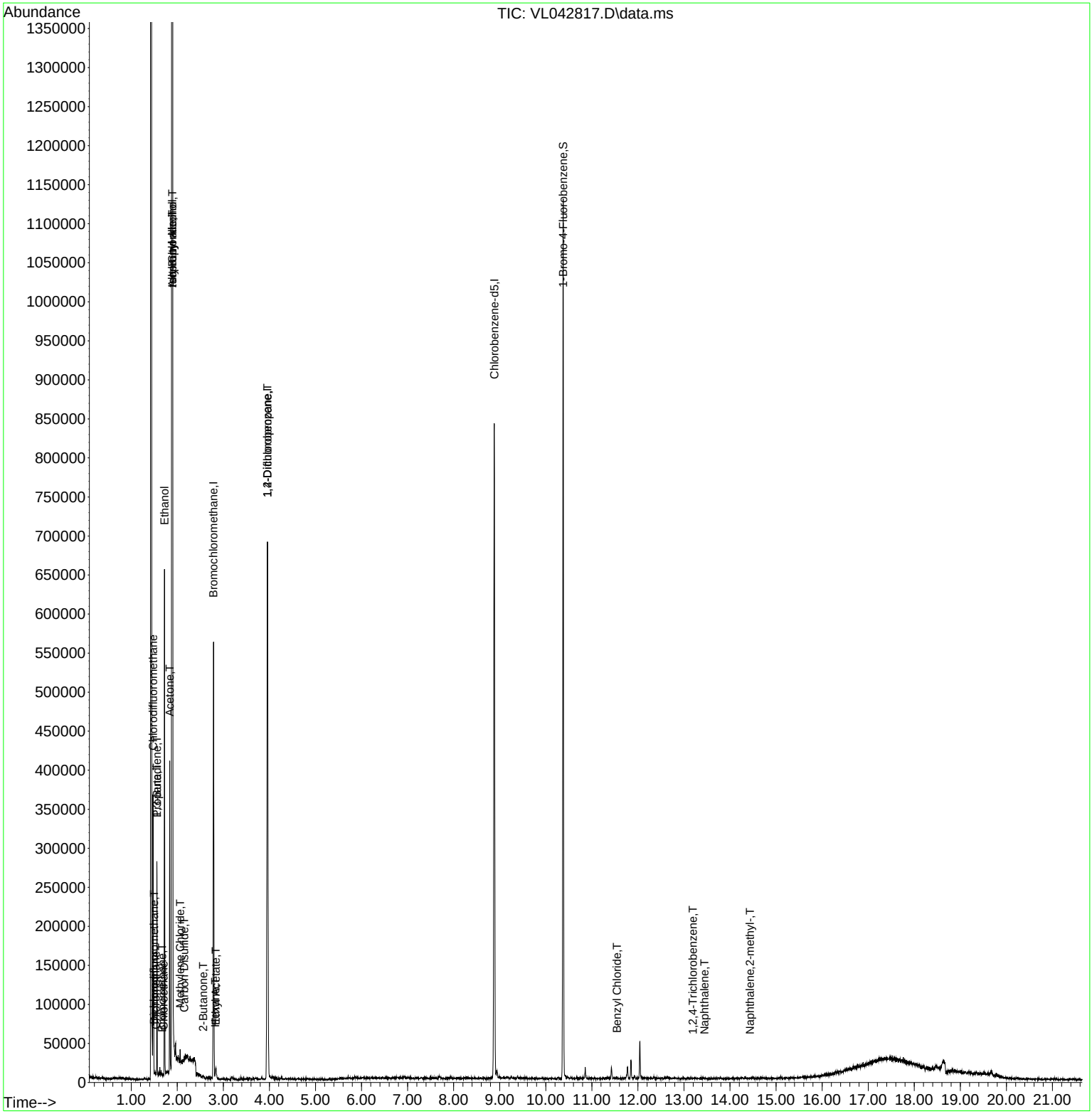
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	149464	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	378209	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	324186	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	253708	9.882	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	686	0.035	ppbv #	1
3) Chlorodifluoromethane	1.473	51	109538	4.255	ppbv	99
4) Chloromethane	1.531	50	518	0.065	ppbv #	60
6) Bromomethane	1.674	94	117	0.038	ppbv #	1
7) Chloroethane	1.703	64	67	0.022	ppbv #	45
9) Propene	1.557	41	32759	3.501	ppbv	92
13) Ethanol	1.722	45	223366	326.729	ppbv	89
15) Acetone	1.835	43	166487	8.067	ppbv	99
16) 1,3-Butadiene	1.557	39	15444	1.754	ppbv #	17
17) tert-Butyl alcohol	1.894	59	527790	28.355	ppbv #	94
19) Isopropyl Alcohol	1.894	45	4596186	419.069	ppbv #	40
20) Methylene Chloride	2.065	84	2281	0.351	ppbv #	40
21) Allyl Chloride	1.894	41	1204148	94.666	ppbv #	84
25) Ethyl Acetate	2.839	43	8153	0.178	ppbv #	68
26) Hexane	2.826	57	829	0.041	ppbv #	1
27) Carbon Disulfide	2.153	76	2609	0.152	ppbv #	57
34) 2-Butanone	2.560	43	1720	0.064	ppbv	96
39) 1,2-Dichloropropane	3.959	63	96805	7.317	ppbv #	20
66) Benzyl Chloride	11.549	91	125	0.028	ppbv #	65
79) Naphthalene	13.445	128	24	0.436	ppbv #	69
80) Naphthalene,2-methyl-	14.436	142	39	1.130	ppbv #	40
81) 1,2,4-Trichlorobenzene	13.193	180	33	0.436	ppbv #	1

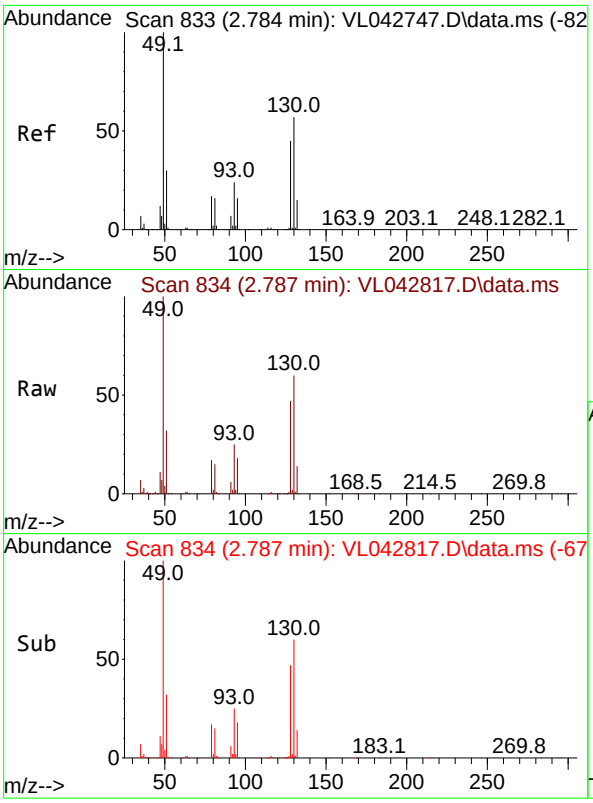
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042817.D
Acq On : 04 Aug 2025 21:57
Operator : SY/MD
Sample : Q2750-06DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Quant Time: Aug 05 01:13:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



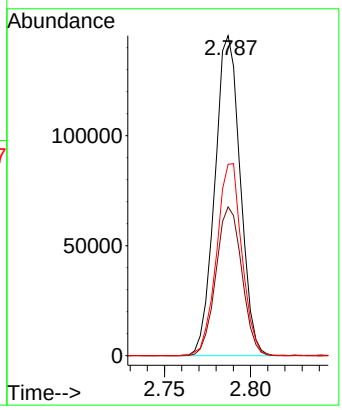


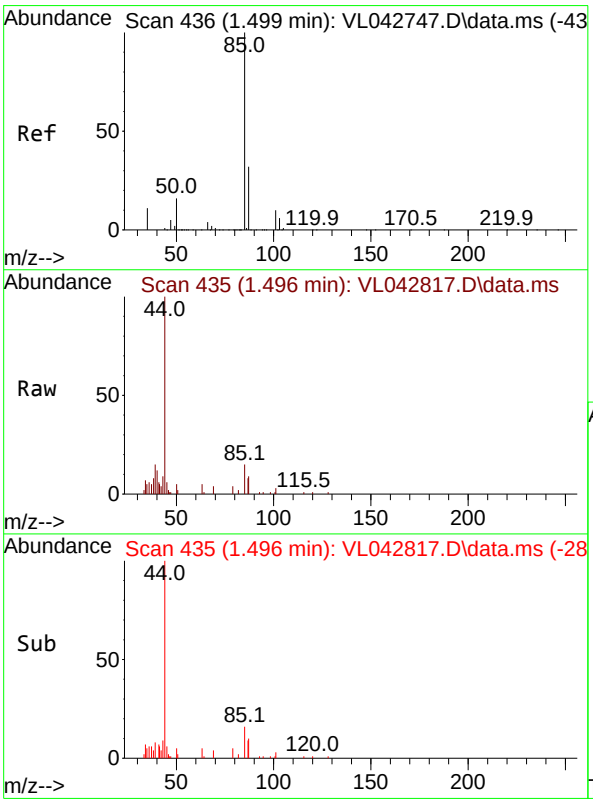
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Tgt Ion: 49 Resp: 149464

Ion	Ratio	Lower	Upper
49	100		
128	47.4	23.6	71.0
130	59.8	30.3	90.8

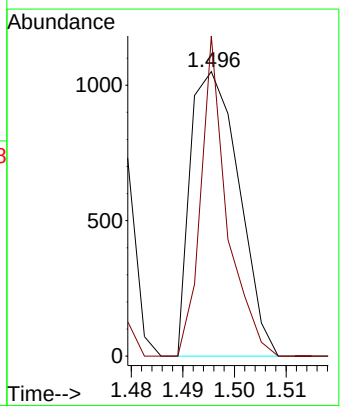


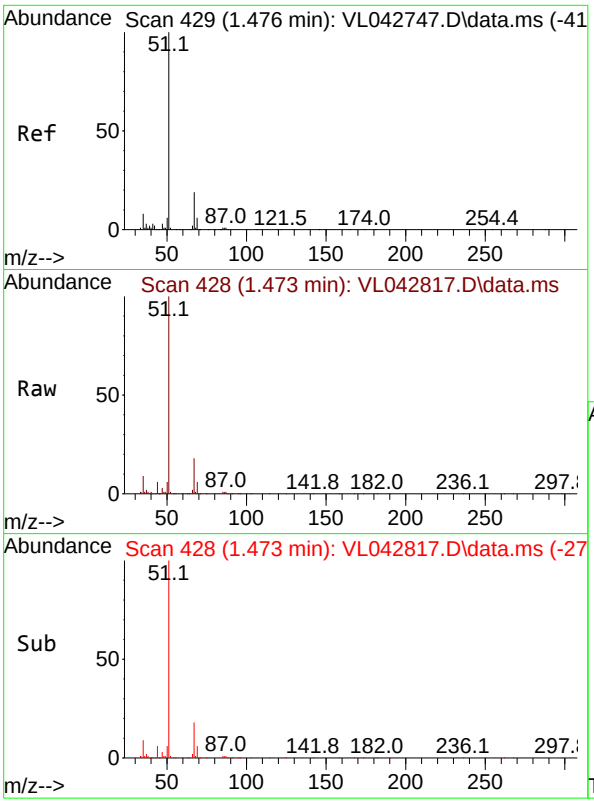


#2
Dichlorodifluoromethane
Concen: 0.035 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 85 Resp: 686

Ion	Ratio	Lower	Upper
85	100		
87	112.6	25.4	38.2#



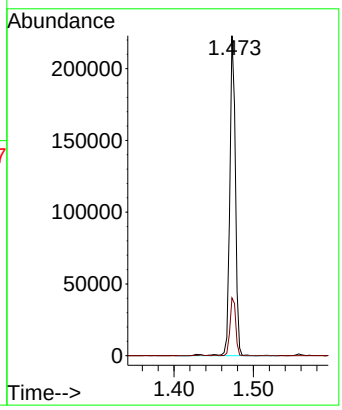


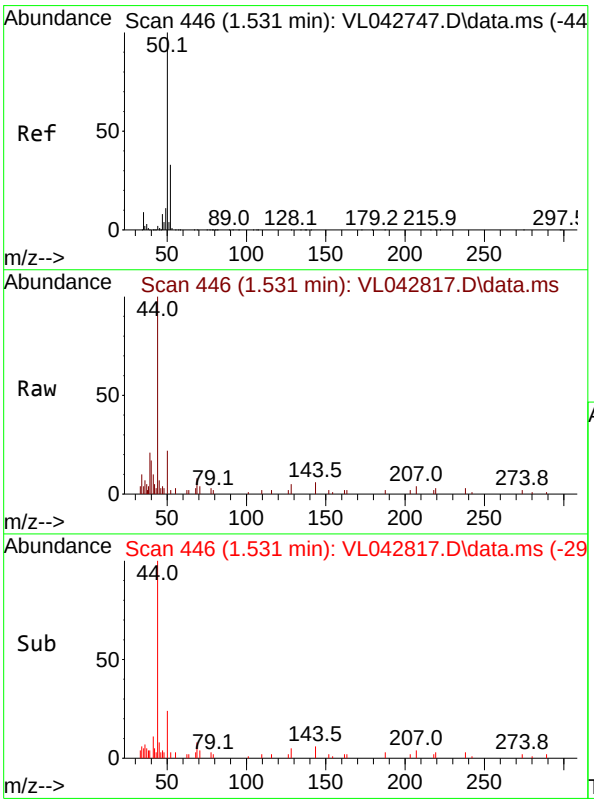
#3
Chlorodifluoromethane
Concen: 4.255 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Tgt Ion: 51 Resp: 109538

Ion	Ratio	Lower	Upper
51	100		
67	18.4	15.0	22.6

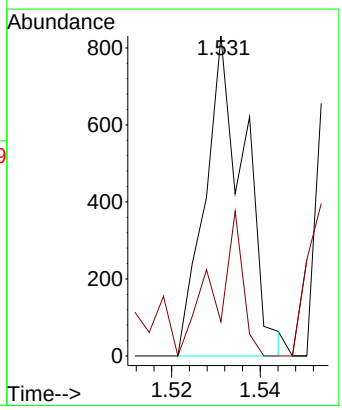


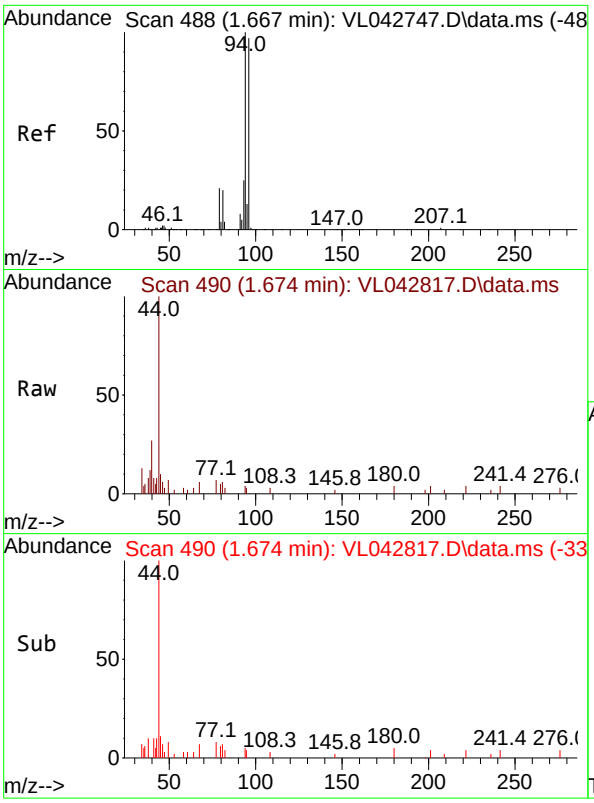


#4
Chloromethane
Concen: 0.065 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 50 Resp: 518

Ion	Ratio	Lower	Upper
50	100		
52	10.7	26.6	40.0#



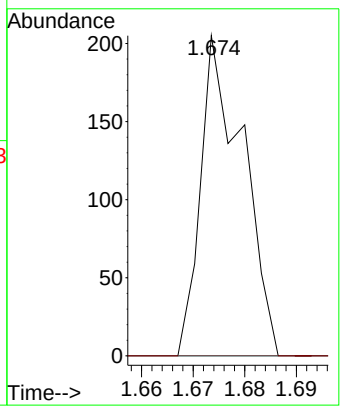


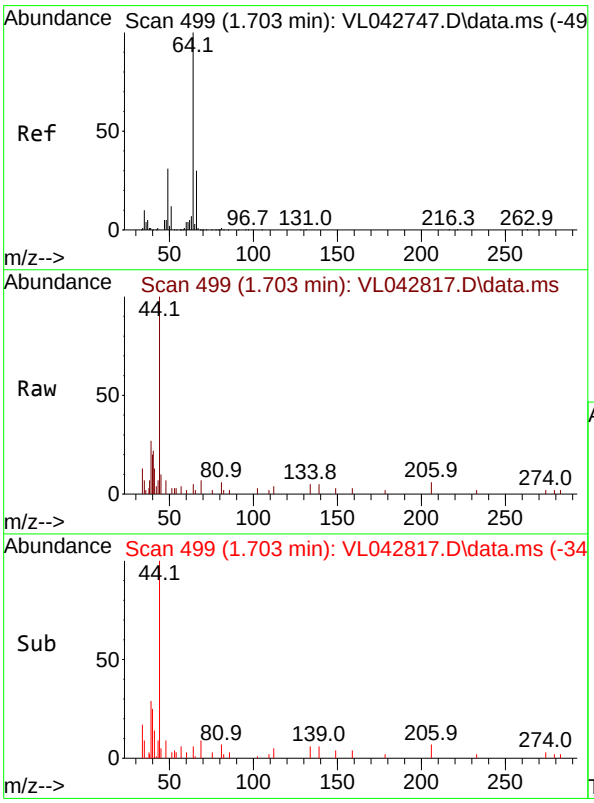
#6
Bromomethane
Concen: 0.038 ppbv
RT: 1.674 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Tgt Ion: 94 Resp: 117

Ion	Ratio	Lower	Upper
94	100		
96	0.0	77.6	116.4#

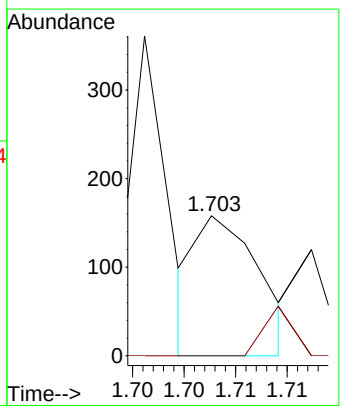


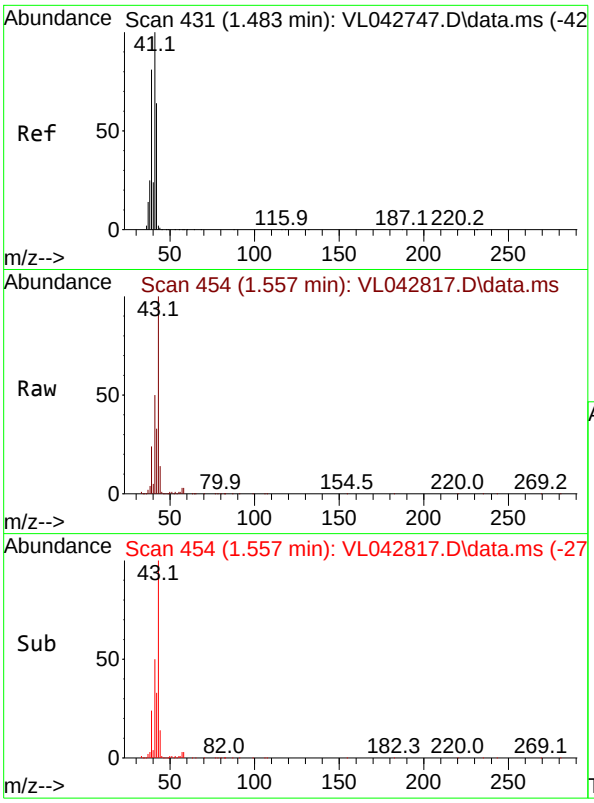


#7
Chloroethane
Concen: 0.022 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 64 Resp: 67

Ion	Ratio	Lower	Upper
64	100		
66	0.0	24.1	36.1#



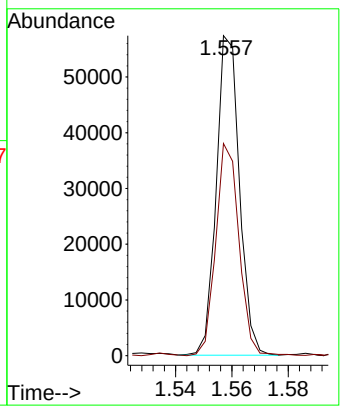


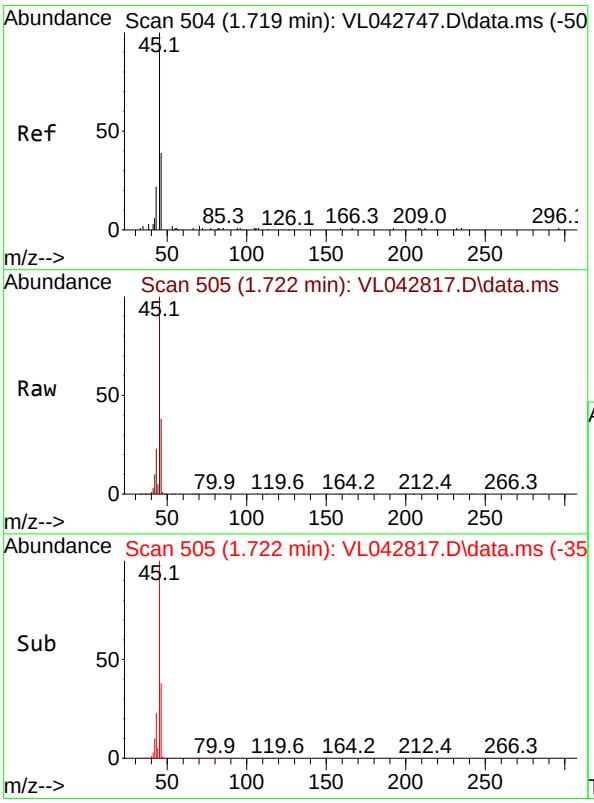
#9
Propene
Concen: 3.501 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.074 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Tgt Ion: 41 Resp: 32759

Ion	Ratio	Lower	Upper
41	100		
42	72.7	53.2	79.8

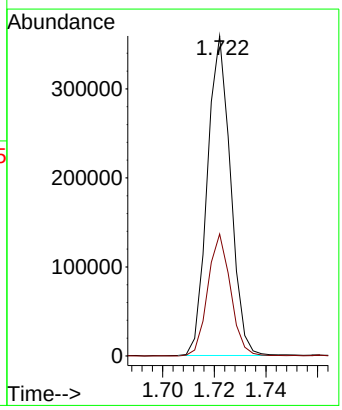


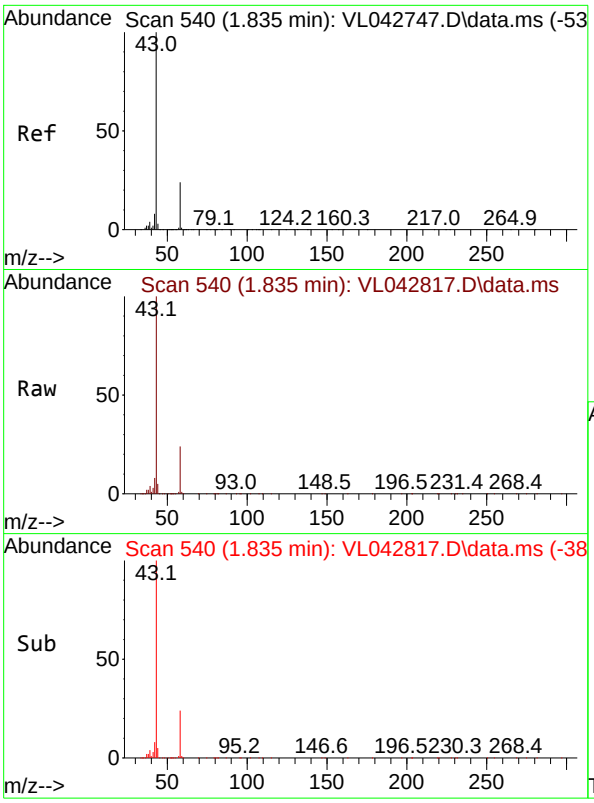


#13
Ethanol
Concen: 326.729 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 45 Resp: 223366

Ion	Ratio	Lower	Upper
45	100		
46	37.7	17.8	71.4



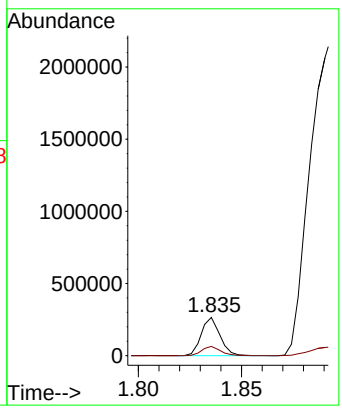


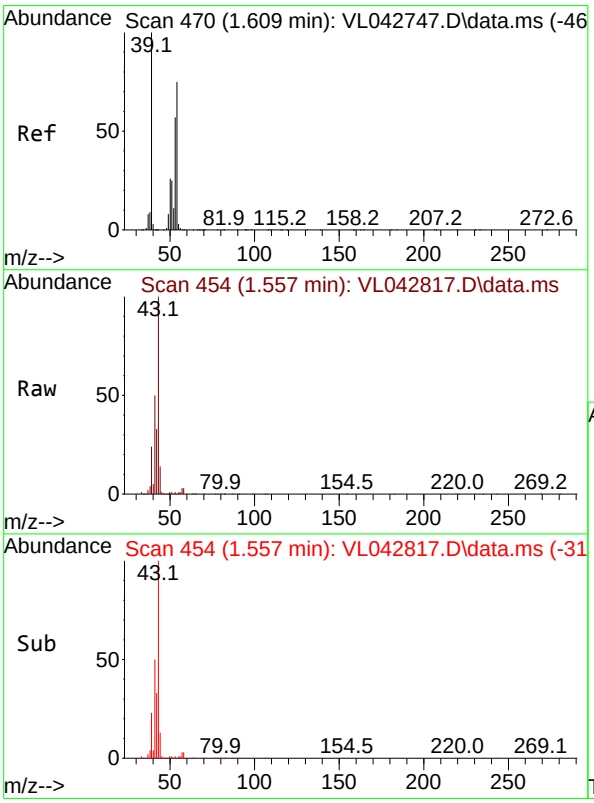
#15
Acetone
Concen: 8.067 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Tgt Ion: 43 Resp: 166487

Ion	Ratio	Lower	Upper
43	100		
58	24.3	19.8	29.8

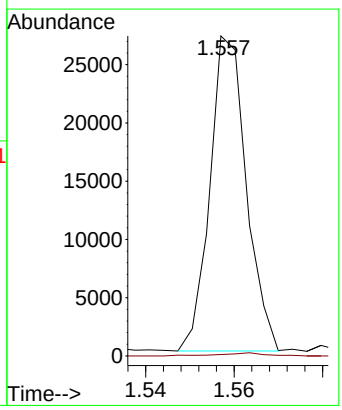


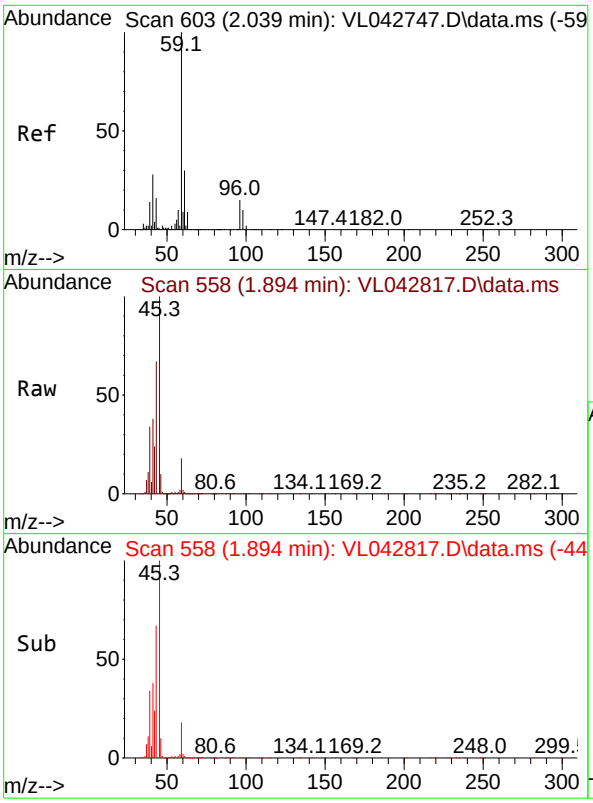


#16
1,3-Butadiene
Concen: 1.754 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.052 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 39 Resp: 15444

Ion	Ratio	Lower	Upper
39	100		
54	1.3	54.5	81.7#



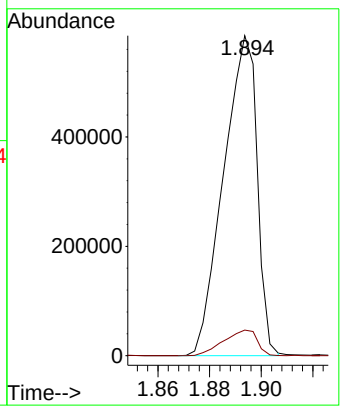


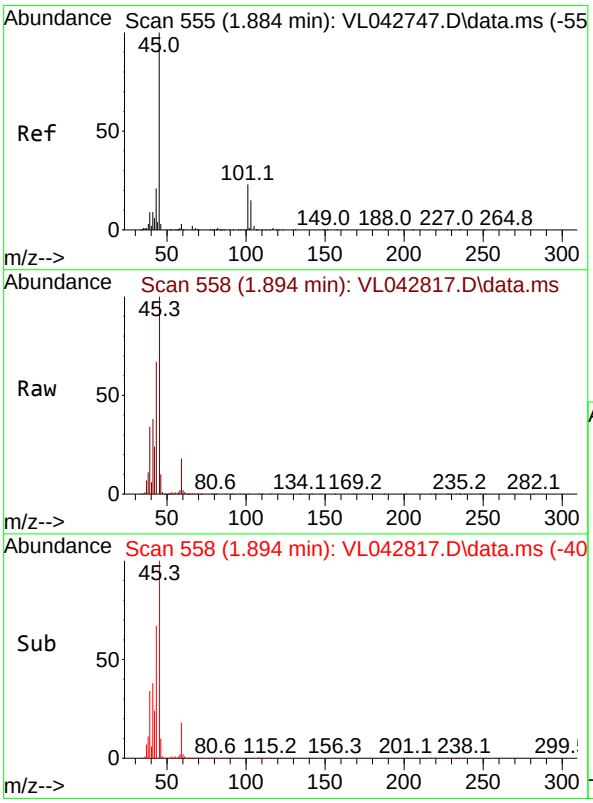
#17
tert-Butyl alcohol
Concen: 28.355 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.146 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Tgt Ion: 59 Resp: 527790

Ion	Ratio	Lower	Upper
59	100		
57	8.1	8.3	12.5#

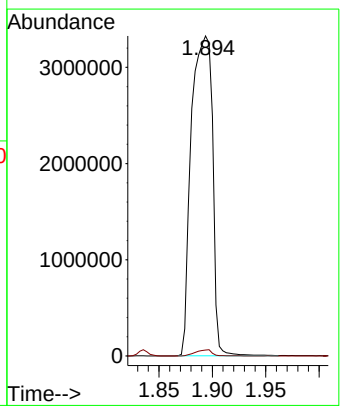


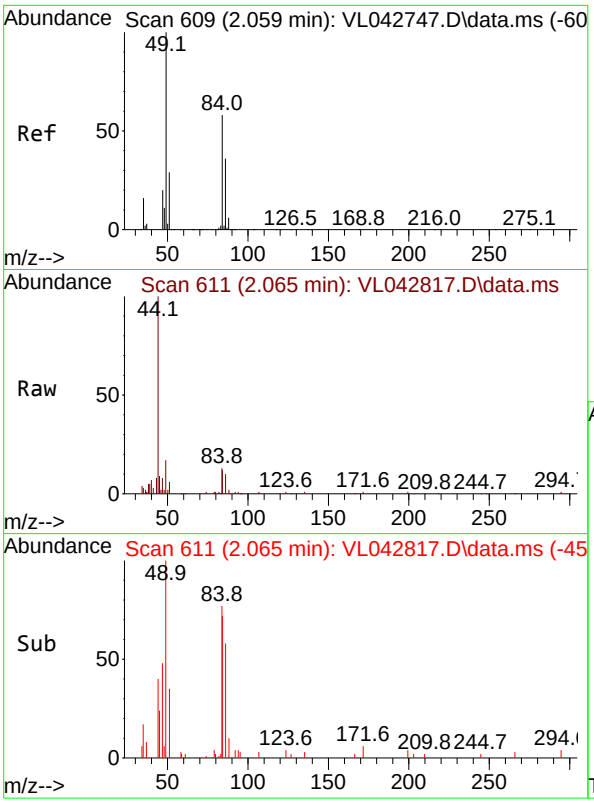


#19
Isopropyl Alcohol
Concen: 419.069 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.010 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 45 Resp: 4596186

Ion	Ratio	Lower	Upper
45	100		
58	1.6	30.0	45.0#



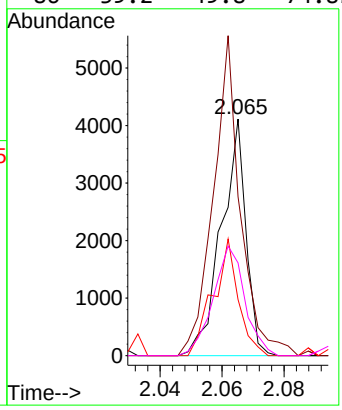


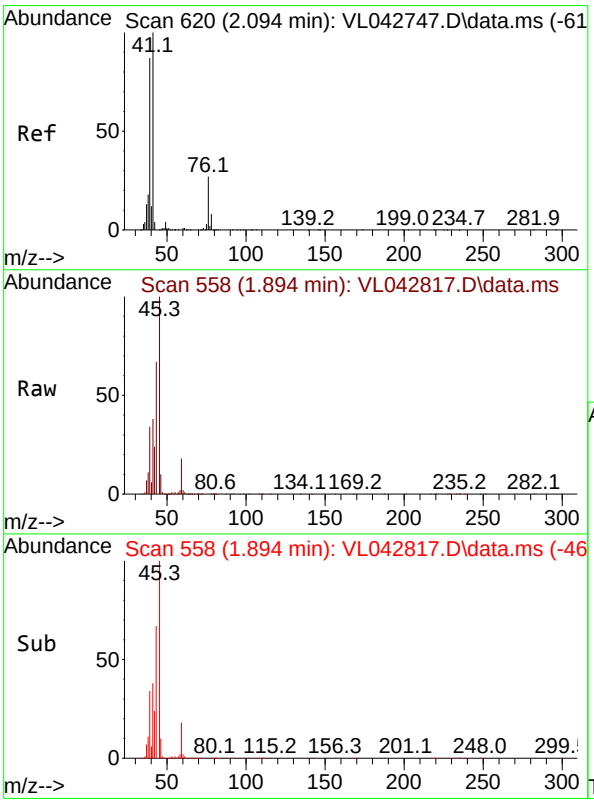
#20
Methylene Chloride
Concen: 0.351 ppbv
RT: 2.065 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Tgt Ion: 84 Resp: 2281

Ion	Ratio	Lower	Upper
84	100		
49	67.3	138.6	208.0#
51	23.7	40.6	61.0#
86	39.2	49.8	74.8#

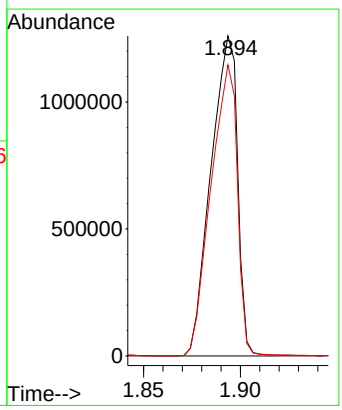


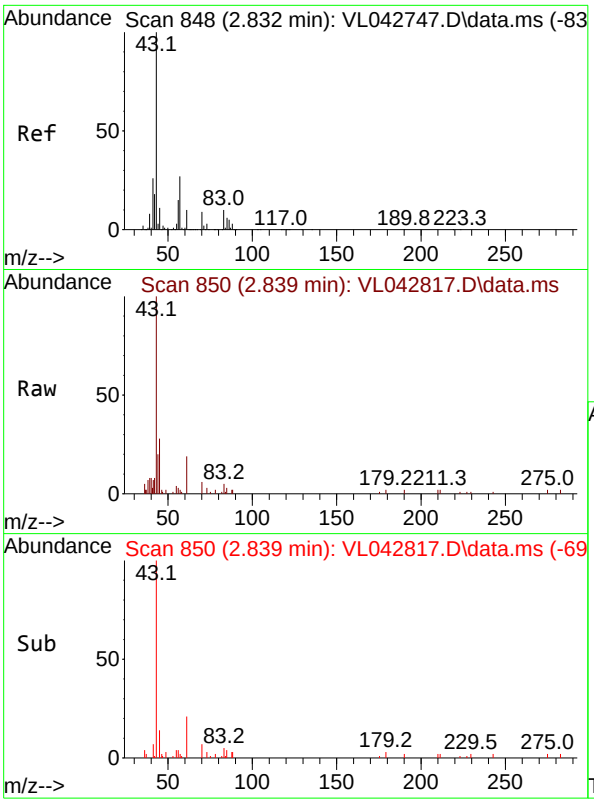


#21
Allyl Chloride
Concen: 94.666 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.201 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 41 Resp: 1204148

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.1	31.7#
39	89.8	68.3	102.5



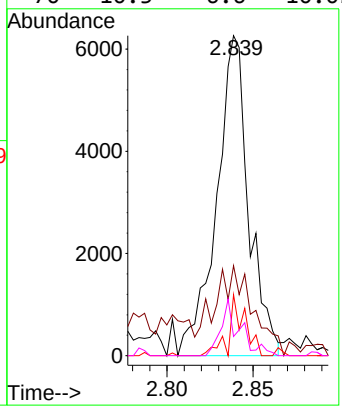


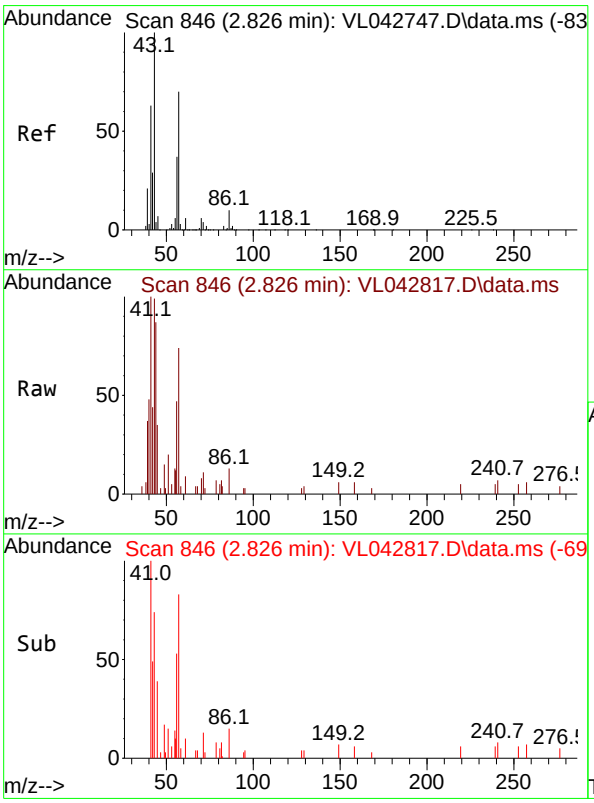
#25
Ethyl Acetate
Concen: 0.178 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Tgt Ion: 43 Resp: 8153

Ion	Ratio	Lower	Upper
43	100		
45	38.8	7.8	11.6#
61	10.1	6.7	10.1#
70	10.3	6.6	10.0#

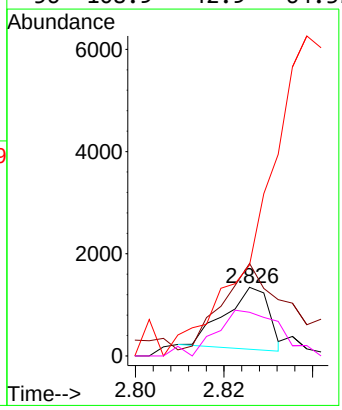


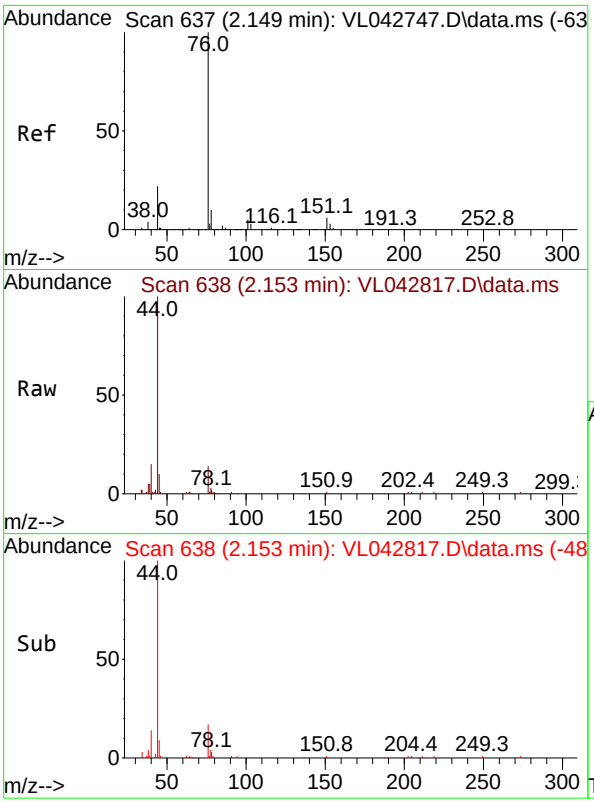


#26
Hexane
Concen: 0.041 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 57 Resp: 829

Ion	Ratio	Lower	Upper
57	100		
41	334.4	75.4	113.2#
43	0.0	185.0	277.6#
56	108.9	42.9	64.3#



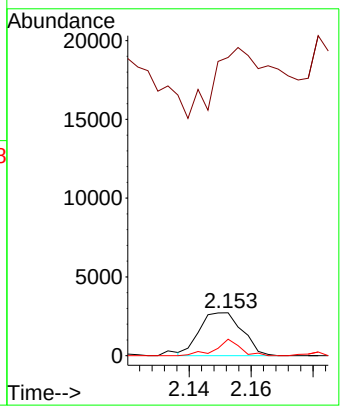


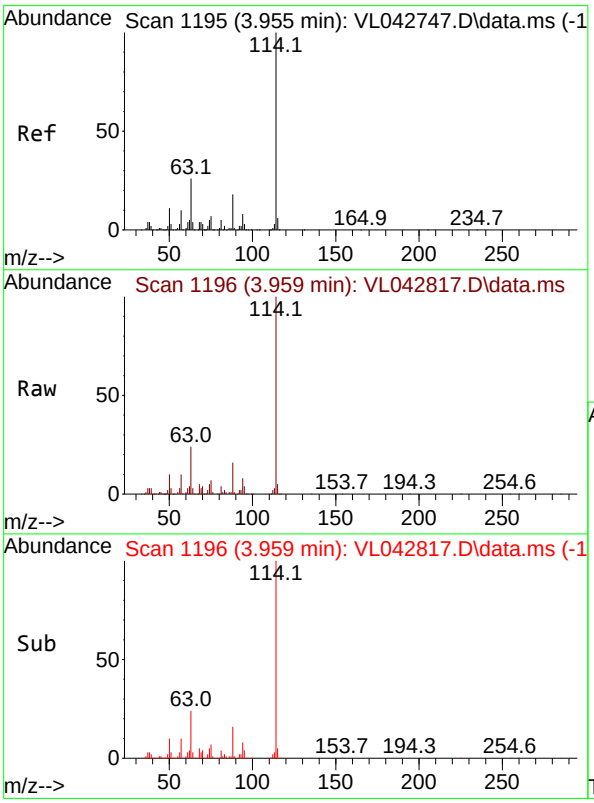
#27
Carbon Disulfide
Concen: 0.152 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Tgt Ion: 76 Resp: 2609

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	24.4	9.9	14.9#

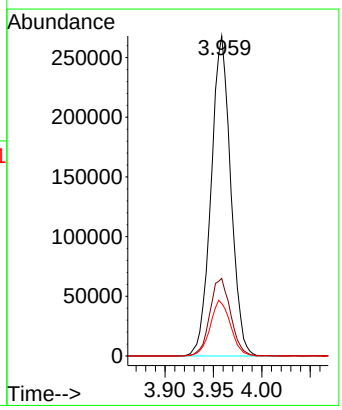


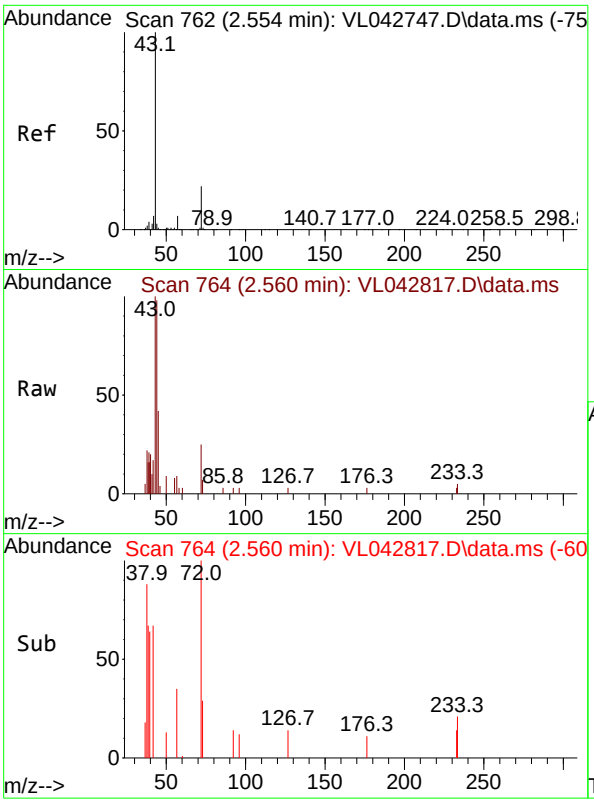


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion:114 Resp: 378209

Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.5	30.7
88	18.0	14.0	21.0



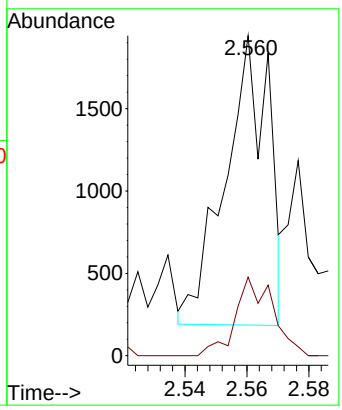


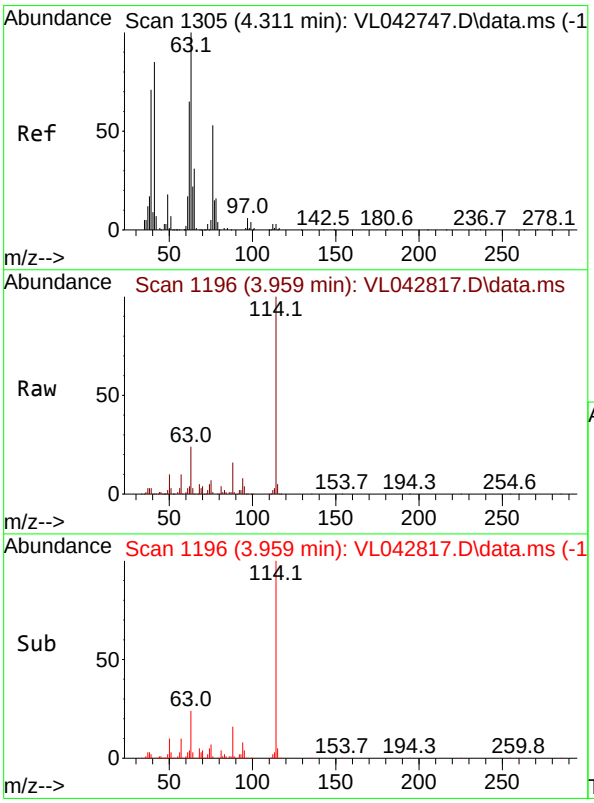
#34
2-Butanone
Concen: 0.064 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Tgt Ion: 43 Resp: 1720

Ion	Ratio	Lower	Upper
43	100		
72	23.4	17.4	26.0

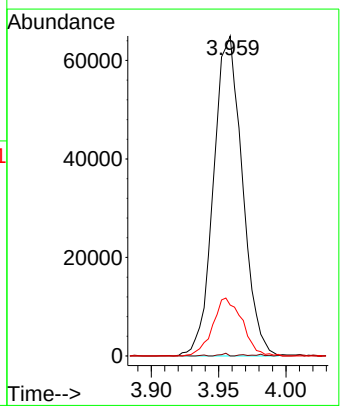


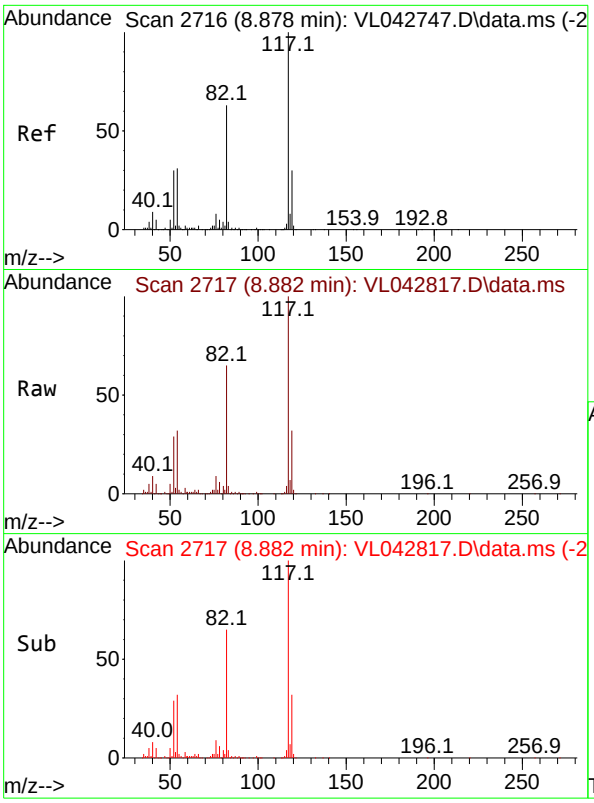


#39
1,2-Dichloropropane
Concen: 7.317 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 63 Resp: 96805

Ion	Ratio	Lower	Upper
63	100		
41	0.2	68.2	102.4#
62	15.9	52.0	78.0#



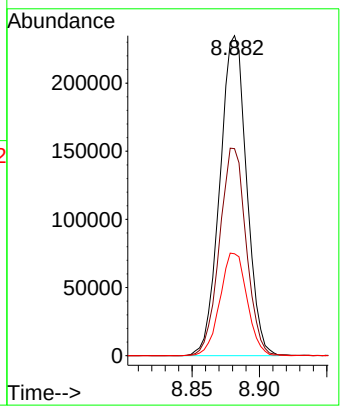


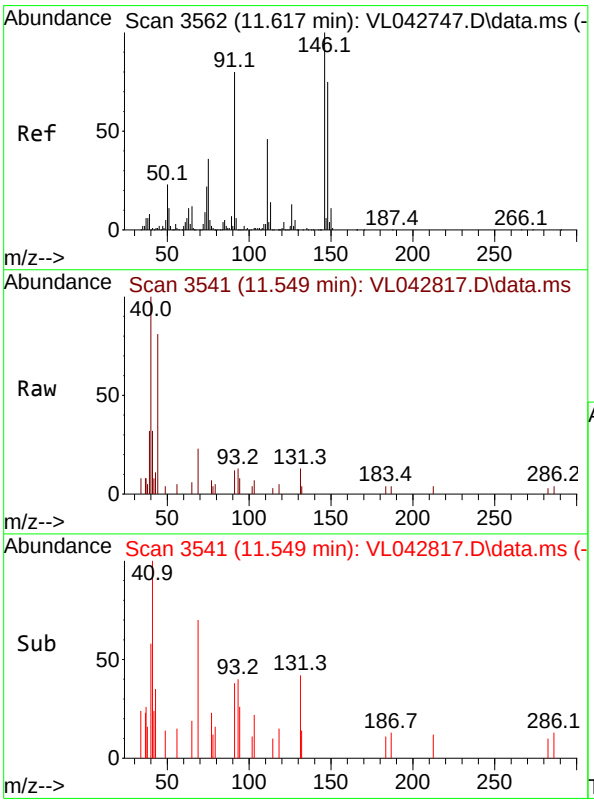
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Tgt Ion:117 Resp: 324186

Ion	Ratio	Lower	Upper
117	100		
82	64.9	53.3	79.9
119	32.6	25.8	38.6

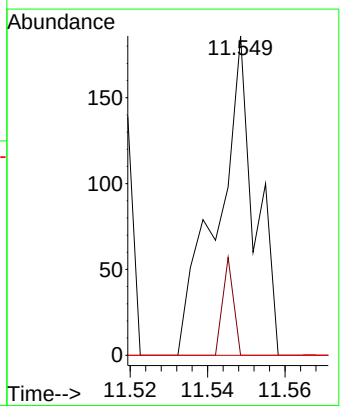


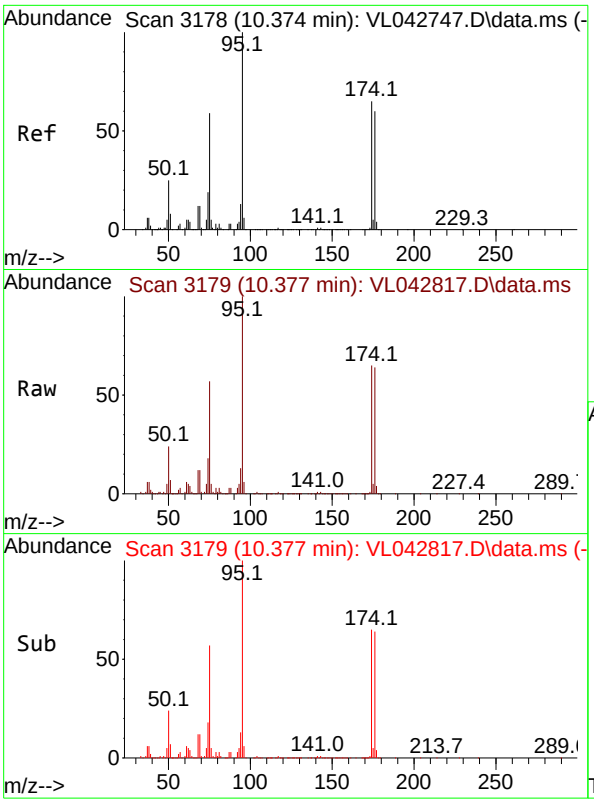


#66
Benzyl Chloride
Concen: 0.028 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. -0.068 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 91 Resp: 125

Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.4	21.6#
128	0.0	5.2	7.8#



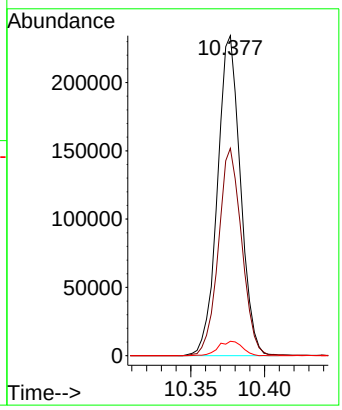


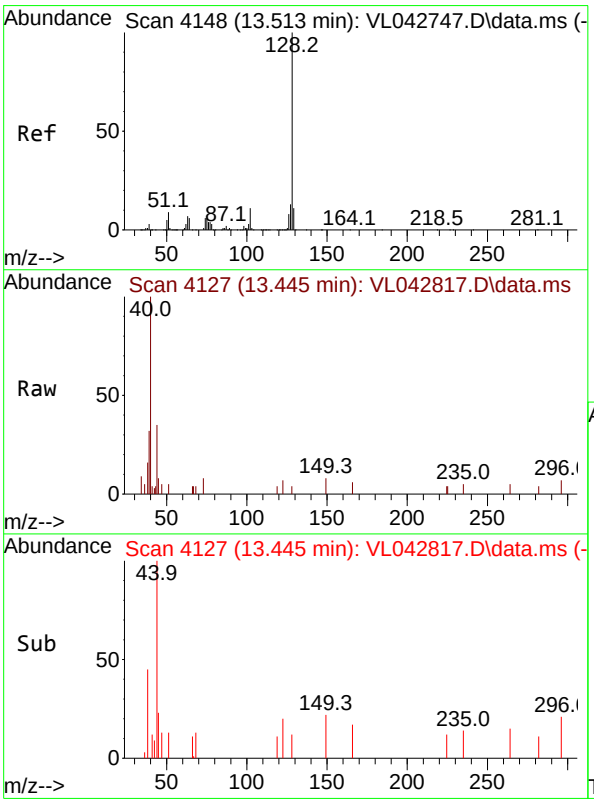
#68
1-Bromo-4-Fluorobenzene
Concen: 9.882 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Tgt Ion: 95 Resp: 253708

Ion	Ratio	Lower	Upper
95	100		
174	66.0	53.8	80.6
175	4.7	4.0	6.0

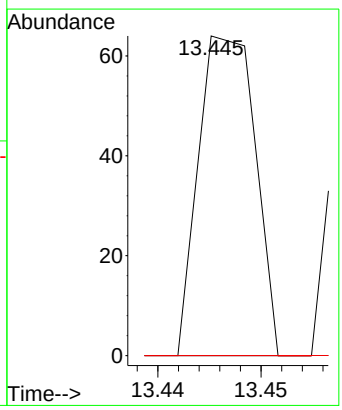


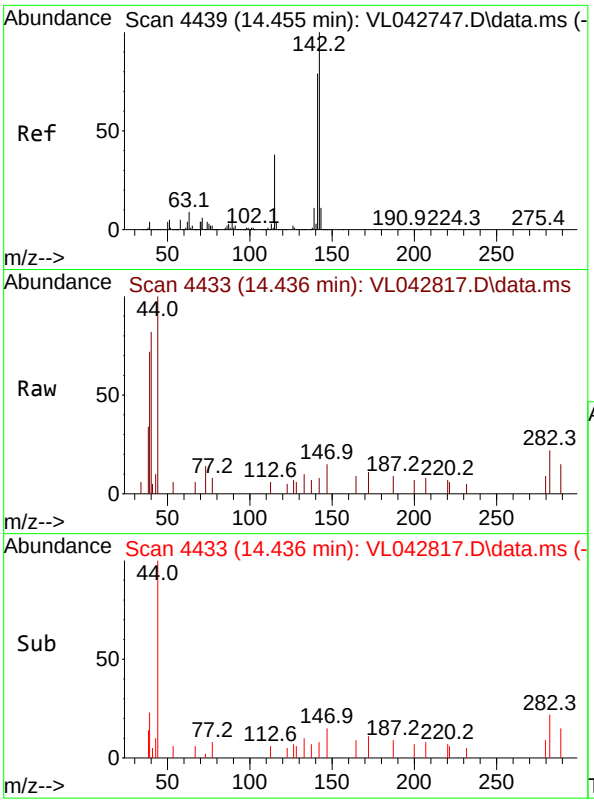


#79
Naphthalene
Concen: 0.436 ppbv
RT: 13.445 min Scan# 4127
Delta R.T. -0.068 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion:128 Resp: 24

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	13.0#



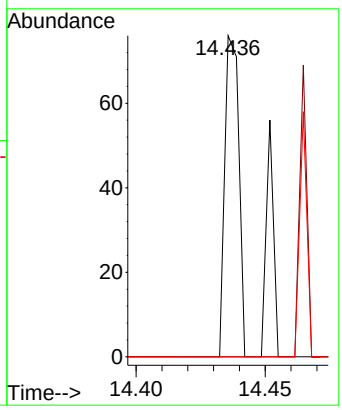


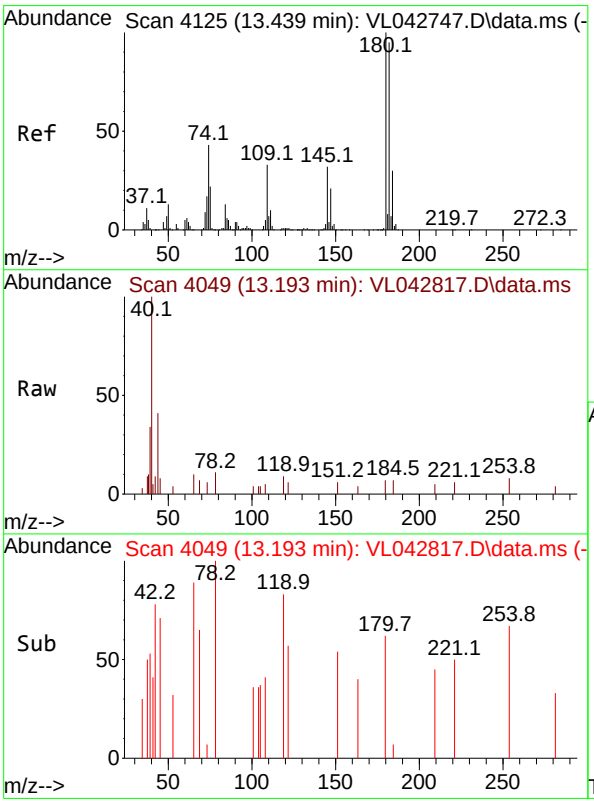
#80
Naphthalene,2-methyl-
Concen: 1.130 ppbv
RT: 14.436 min Scan# 44
Delta R.T. -0.020 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-7DL

Tgt Ion:142 Resp: 39

Ion	Ratio	Lower	Upper
142	100		
141	33.3	65.8	98.8#
115	82.1	31.2	46.8#

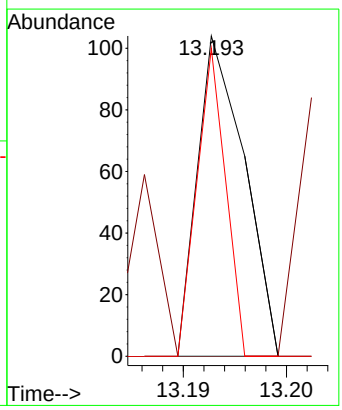




#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.193 min Scan# 4049
Delta R.T. -0.246 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion:180 Resp: 33

Ion	Ratio	Lower	Upper
180	100		
182	160.6	76.2	114.2#
184	306.1	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042818.D
Acq On : 04 Aug 2025 22:31
Operator : SY/MD
Sample : Q2750-07DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Quant Time: Aug 05 01:14:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

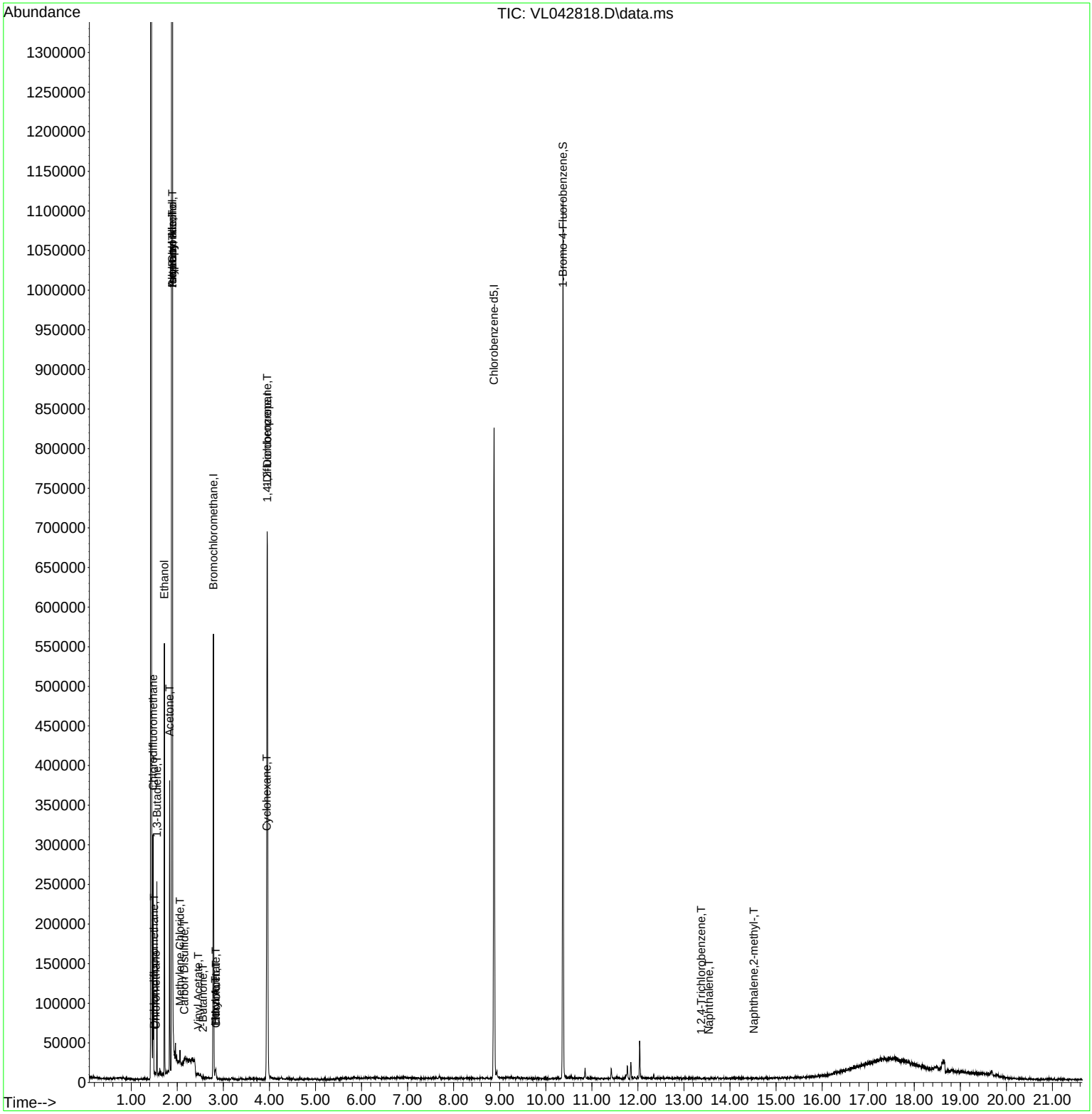
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	146776	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	381523	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	323135	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	246263	9.623	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	732	0.038	ppbv #	69
3) Chlorodifluoromethane	1.473	51	88603	3.505	ppbv	100
4) Chloromethane	1.531	50	464	0.059	ppbv #	79
9) Propene	1.891	41	971345	105.721	ppbv	93
13) Ethanol	1.719	45	184153	274.119	ppbv	89
15) Acetone	1.832	43	153225	7.560	ppbv	99
16) 1,3-Butadiene	1.557	39	13366	1.546	ppbv #	18
17) tert-Butyl alcohol	1.891	59	418993	22.922	ppbv #	94
19) Isopropyl Alcohol	1.891	45	4073948	378.255	ppbv #	40
20) Methylene Chloride	2.059	84	2037	0.319	ppbv	87
21) Allyl Chloride	1.891	41	971345	77.763	ppbv #	84
23) Vinyl Acetate	2.454	43	1866	0.076	ppbv #	87
25) Ethyl Acetate	2.839	43	7254	0.162	ppbv #	89
26) Hexane	2.823	57	1411	0.072	ppbv #	1
27) Carbon Disulfide	2.150	76	2245	0.133	ppbv #	62
29) Chloroform	2.842	83	1334	0.044	ppbv #	47
30) Cyclohexane	3.939	84	892	0.053	ppbv #	16
34) 2-Butanone	2.557	43	1535	0.057	ppbv #	90
39) 1,2-Dichloropropane	3.952	63	98800	7.402	ppbv #	21
79) Naphthalene	13.543	128	58	0.436	ppbv #	69
80) Naphthalene,2-methyl-	14.514	142	55	1.131	ppbv #	67
81) 1,2,4-Trichlorobenzene	13.374	180	41	0.436	ppbv #	12

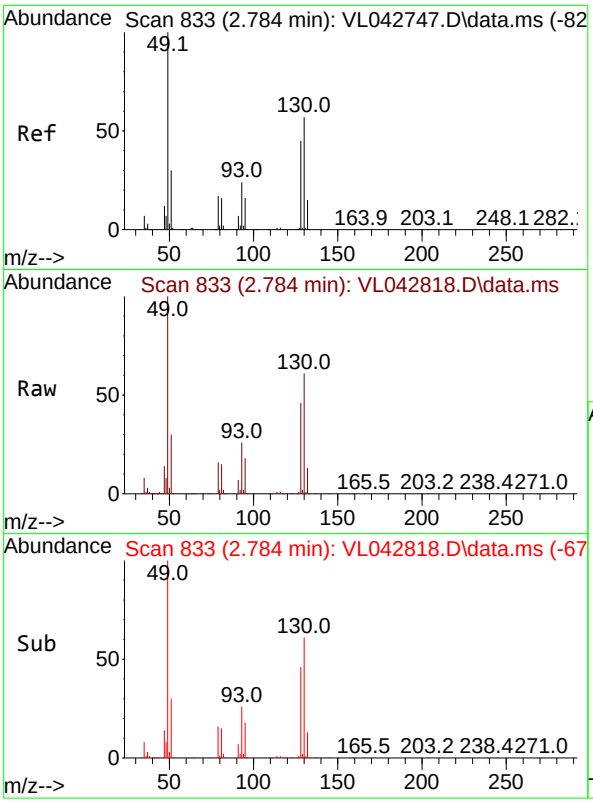
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042818.D
Acq On : 04 Aug 2025 22:31
Operator : SY/MD
Sample : Q2750-07DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Quant Time: Aug 05 01:14:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



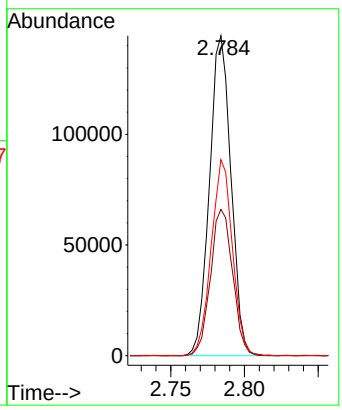


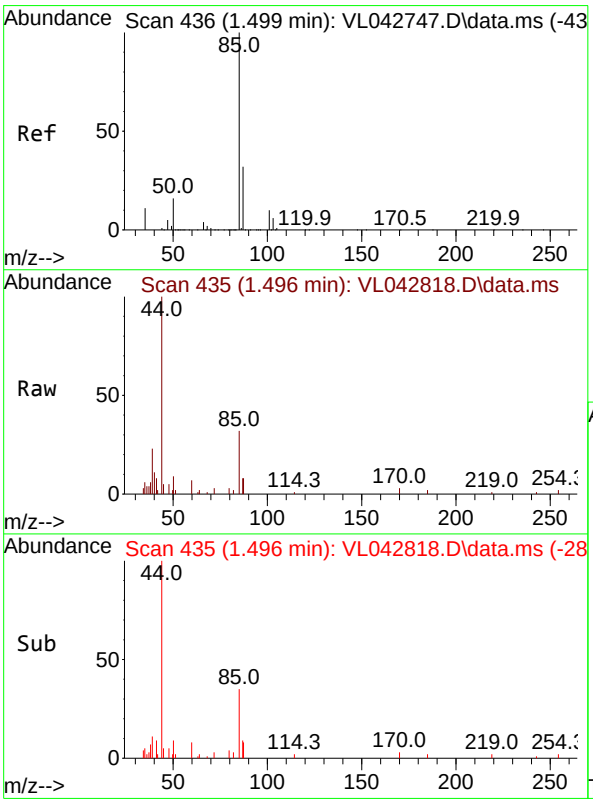
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Tgt Ion: 49 Resp: 146776

Ion	Ratio	Lower	Upper
49	100		
128	47.1	23.6	71.0
130	60.5	30.3	90.8

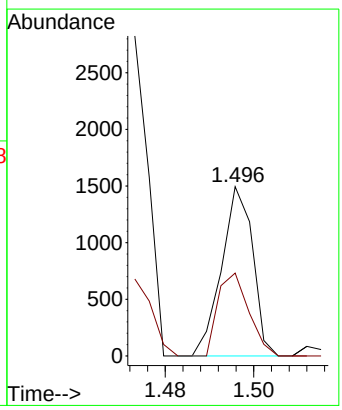


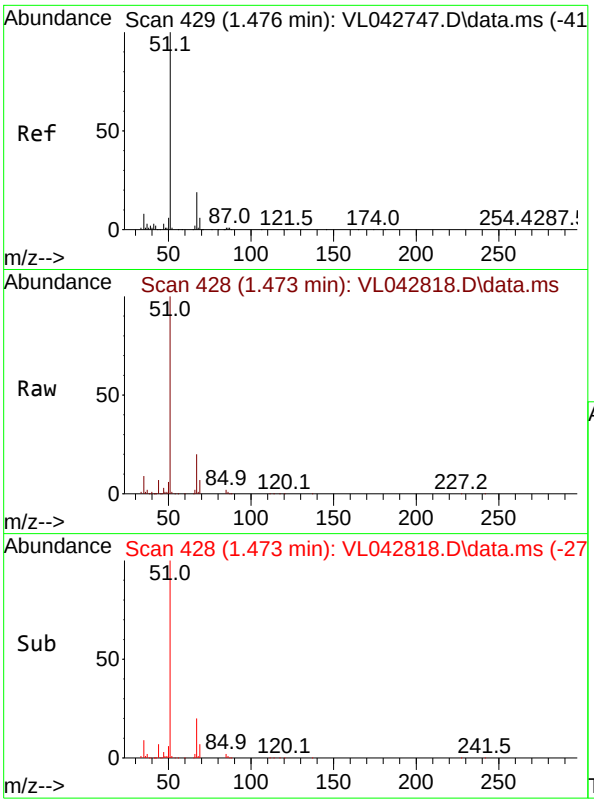


#2
Dichlorodifluoromethane
Concen: 0.038 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 85 Resp: 732

Ion	Ratio	Lower	Upper
85	100		
87	48.9	25.4	38.2#



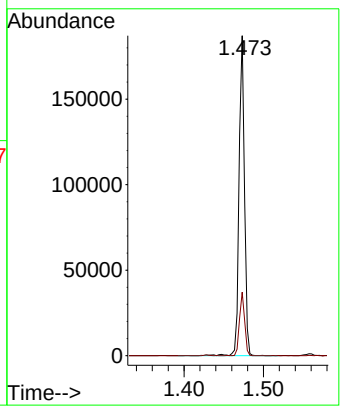


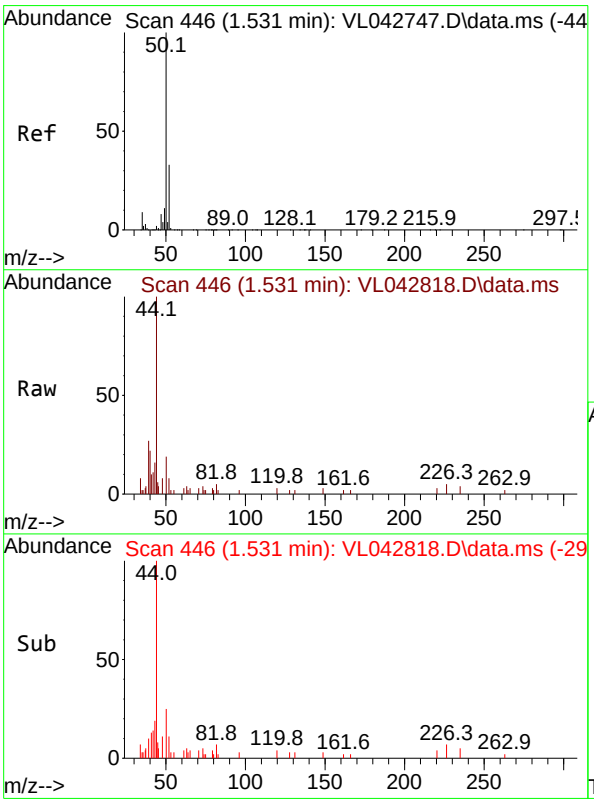
#3
Chlorodifluoromethane
Concen: 3.505 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Tgt Ion: 51 Resp: 88603

Ion	Ratio	Lower	Upper
51	100		
67	19.0	15.0	22.6

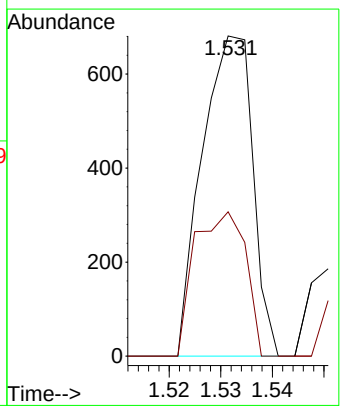


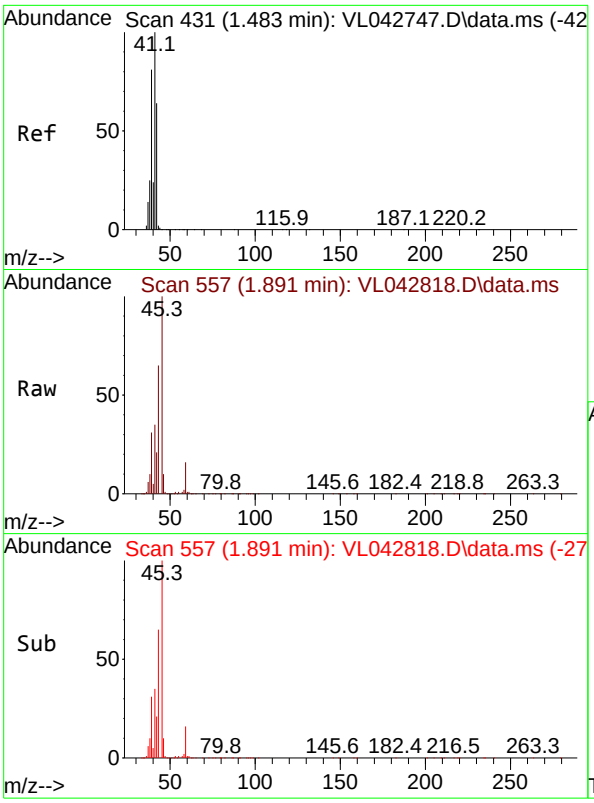


#4
Chloromethane
Concen: 0.059 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 50 Resp: 464

Ion	Ratio	Lower	Upper
50	100		
52	45.1	26.6	40.0#



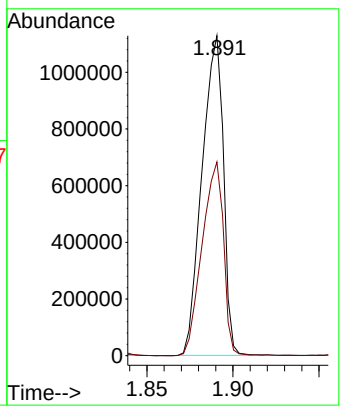


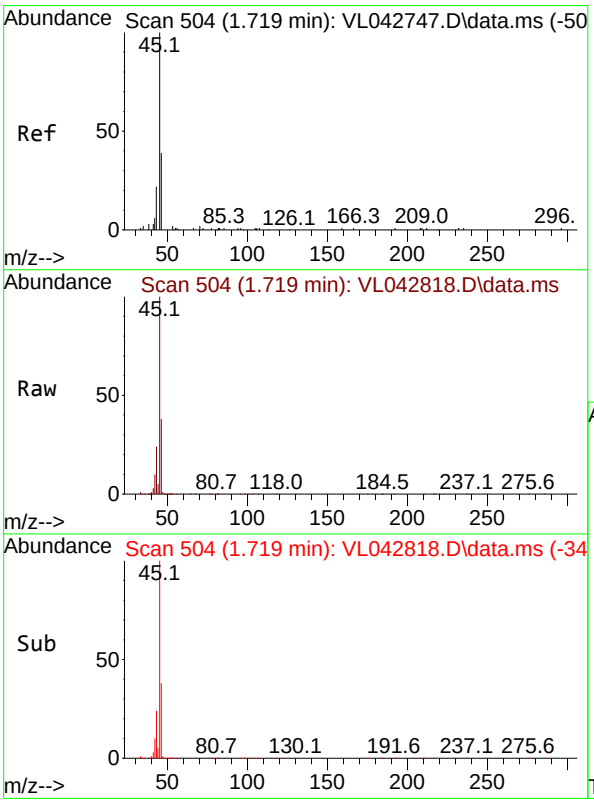
#9
Propene
Concen: 105.721 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.408 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Tgt Ion: 41 Resp: 971345

Ion	Ratio	Lower	Upper
41	100		
42	60.8	53.2	79.8

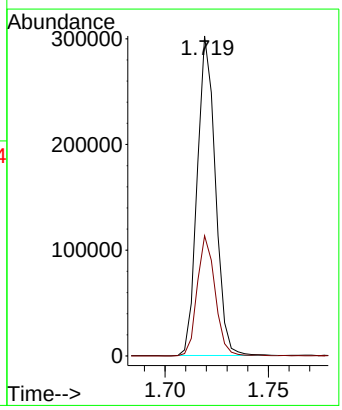


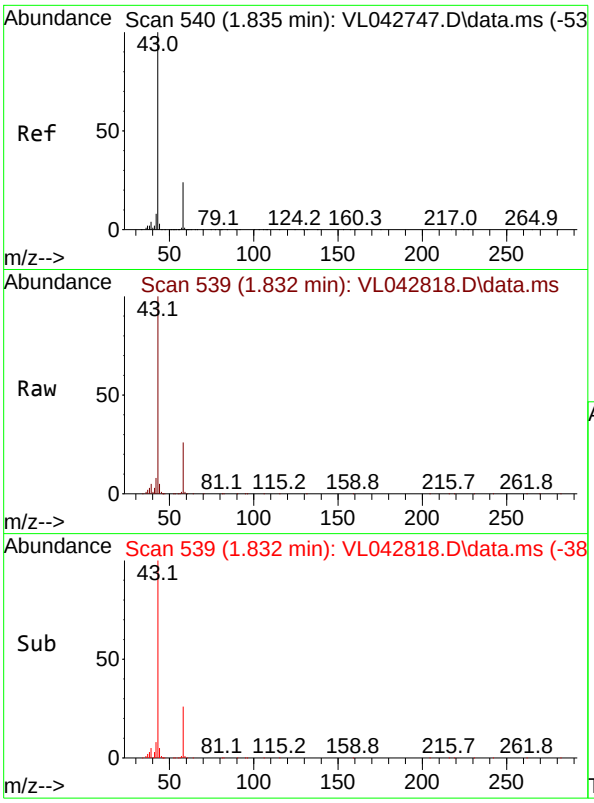


#13
Ethanol
Concen: 274.119 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 45 Resp: 184153

Ion	Ratio	Lower	Upper
45	100		
46	37.5	17.8	71.4



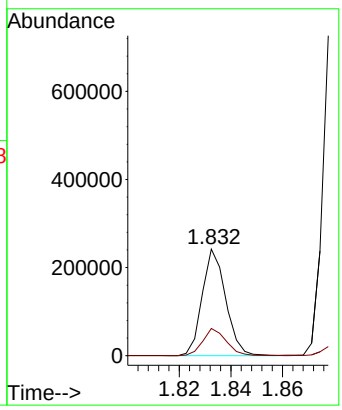


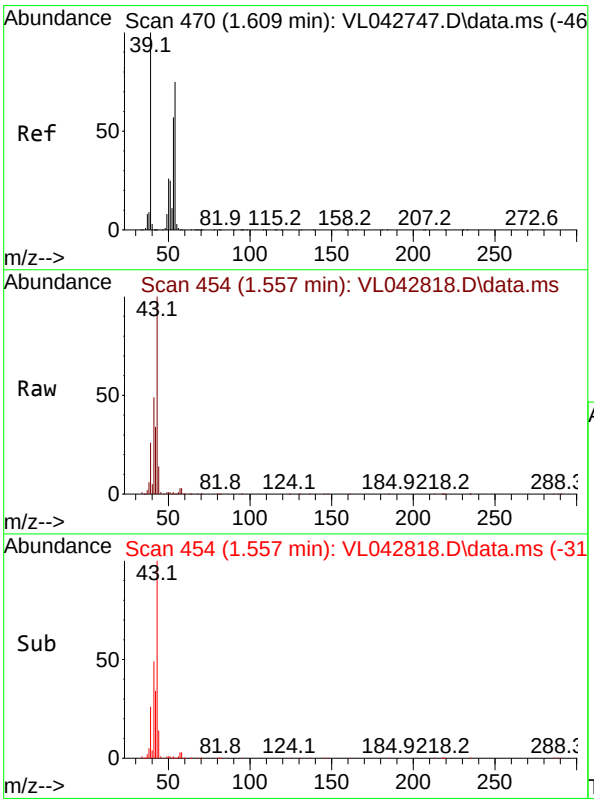
#15
Acetone
Concen: 7.560 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Tgt Ion: 43 Resp: 153225

Ion	Ratio	Lower	Upper
43	100		
58	25.5	19.8	29.8

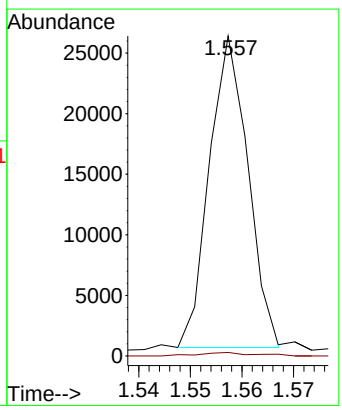


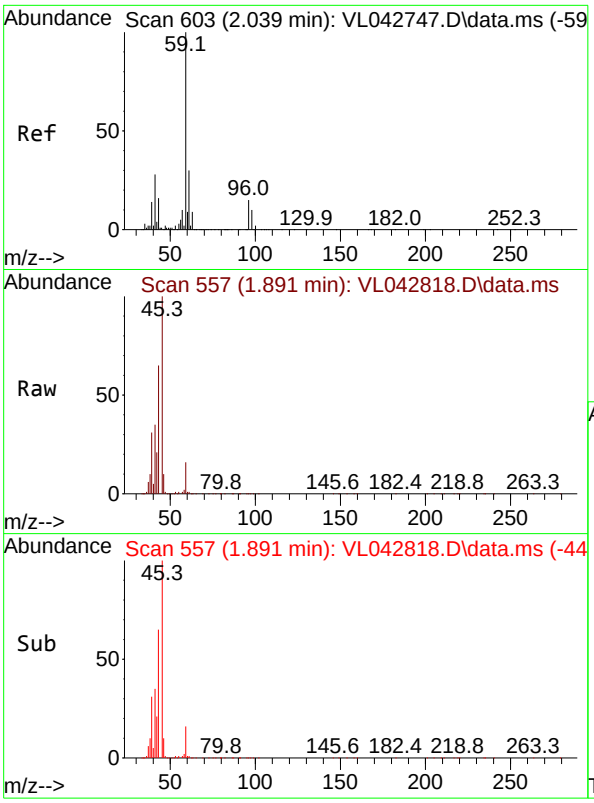


#16
1,3-Butadiene
Concen: 1.546 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.052 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 39 Resp: 13366

Ion	Ratio	Lower	Upper
39	100		
54	1.6	54.5	81.7#



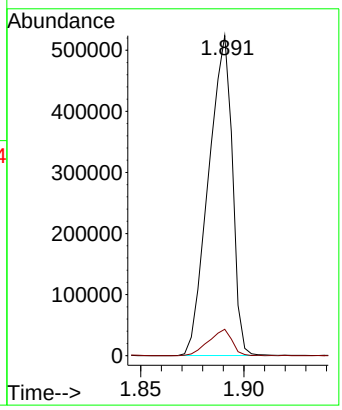


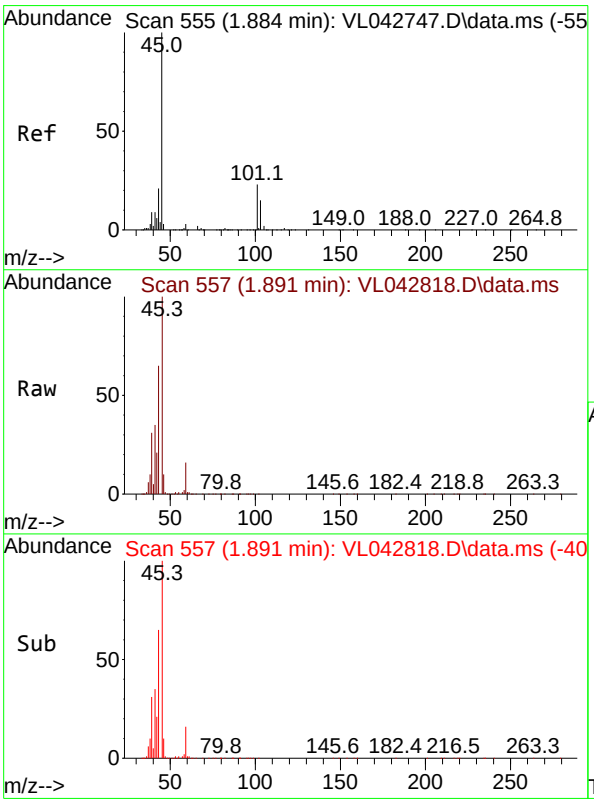
#17
tert-Butyl alcohol
Concen: 22.922 ppbv
RT: 1.891 min Scan# 5
Delta R.T. -0.149 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Tgt Ion: 59 Resp: 418993

Ion	Ratio	Lower	Upper
59	100		
57	8.2	8.3	12.5#

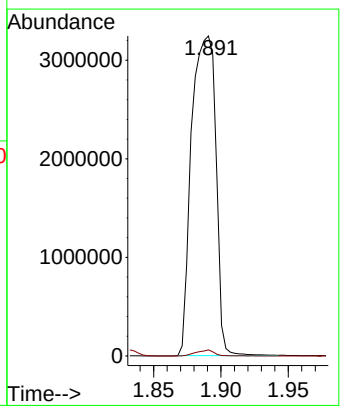


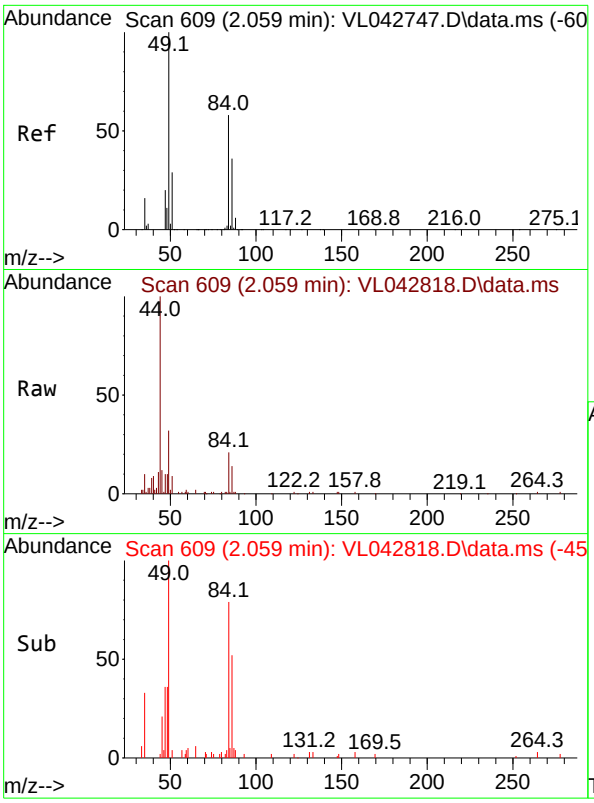


#19
Isopropyl Alcohol
Concen: 378.255 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 45 Resp: 4073948

Ion	Ratio	Lower	Upper
45	100		
58	1.5	30.0	45.0#



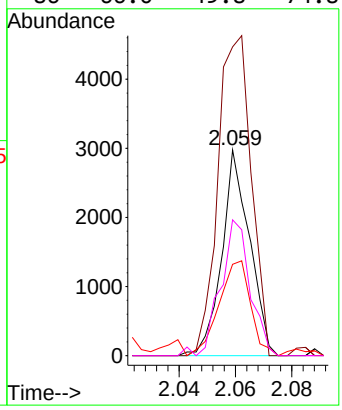


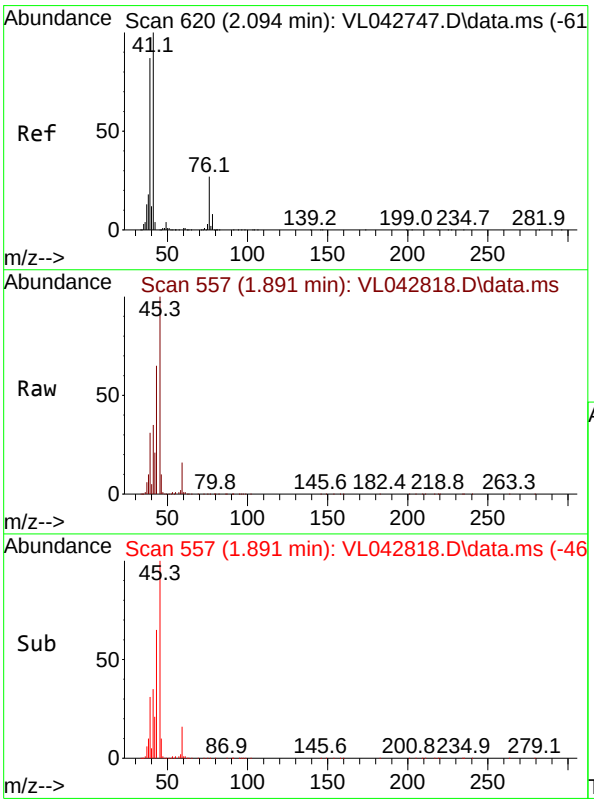
#20
Methylene Chloride
Concen: 0.319 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Tgt Ion: 84 Resp: 2037

Ion	Ratio	Lower	Upper
84	100		
49	150.0	138.6	208.0
51	44.4	40.6	61.0
86	66.0	49.8	74.8

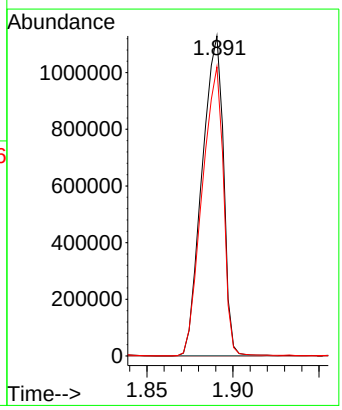


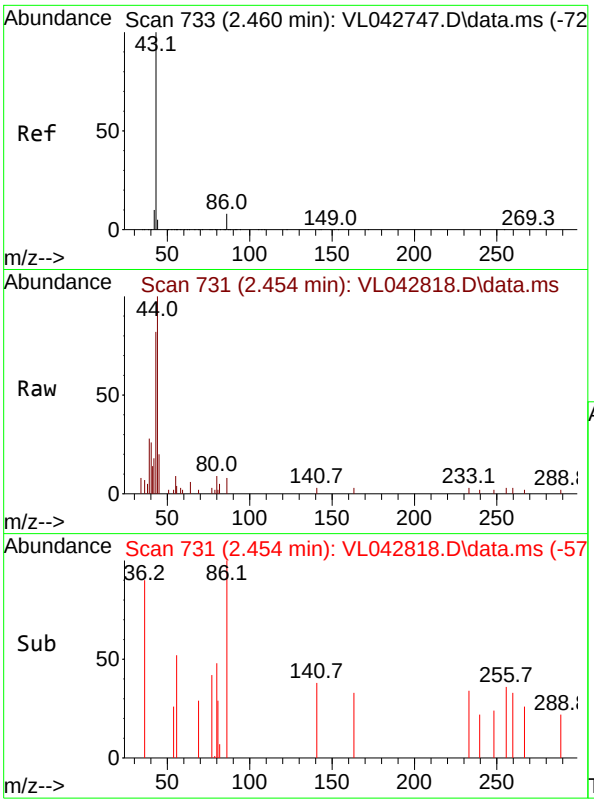


#21
Allyl Chloride
Concen: 77.763 ppbv
RT: 1.891 min Scan# 557
Delta R.T. -0.204 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 41 Resp: 971345

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.1	31.7#
39	89.9	68.3	102.5



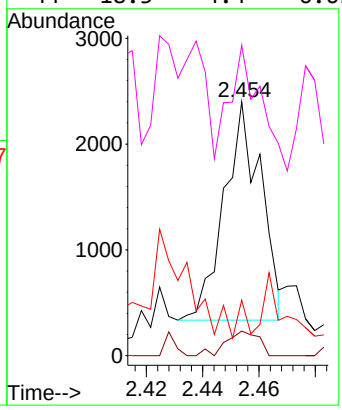


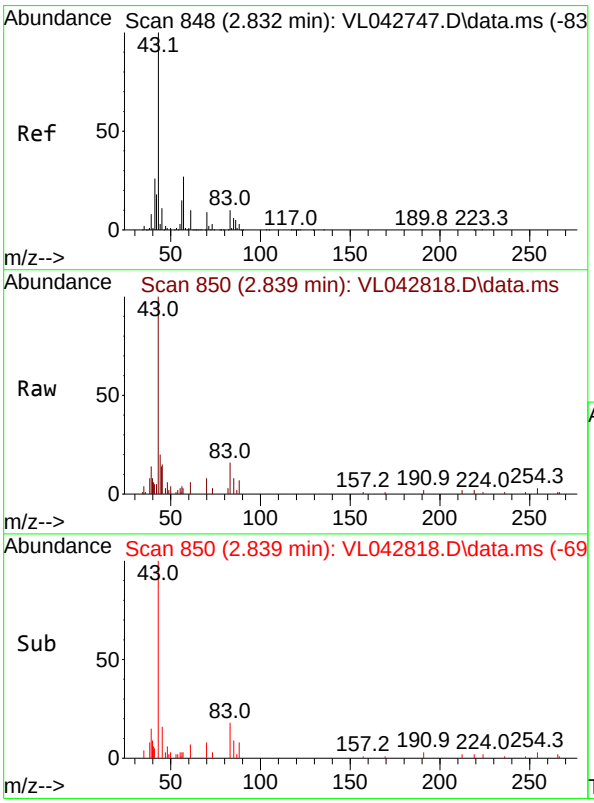
#23
Vinyl Acetate
Concen: 0.076 ppbv
RT: 2.454 min Scan# 7
Delta R.T. -0.006 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Tgt Ion: 43 Resp: 1866

Ion	Ratio	Lower	Upper
43	100		
86	11.2	6.1	9.1#
42	9.2	7.8	11.8
44	18.3	4.4	6.6#

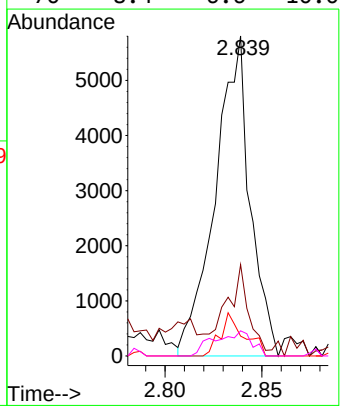


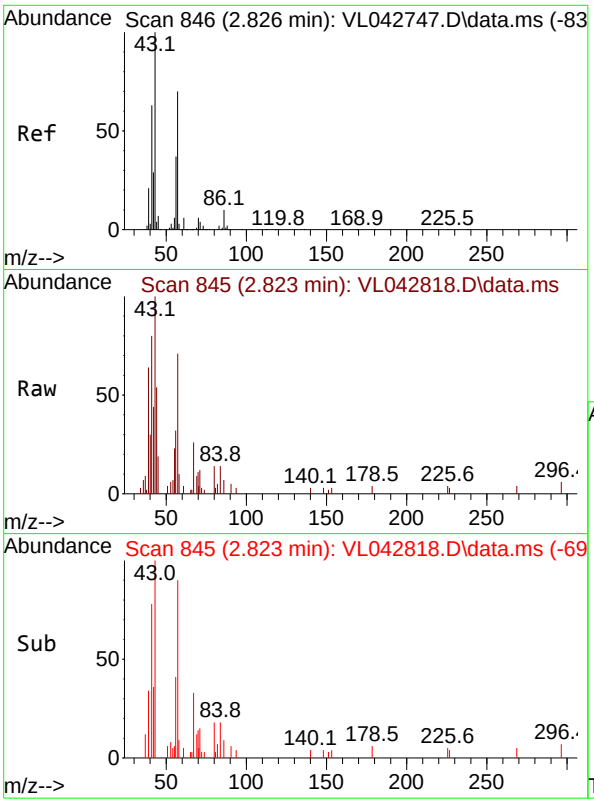


#25
Ethyl Acetate
Concen: 0.162 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.007 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 43 Resp: 7254

Ion	Ratio	Lower	Upper
43	100		
45	20.0	7.8	11.6#
61	9.2	6.7	10.1
70	8.4	6.6	10.0



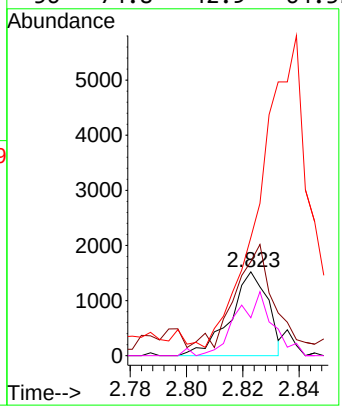


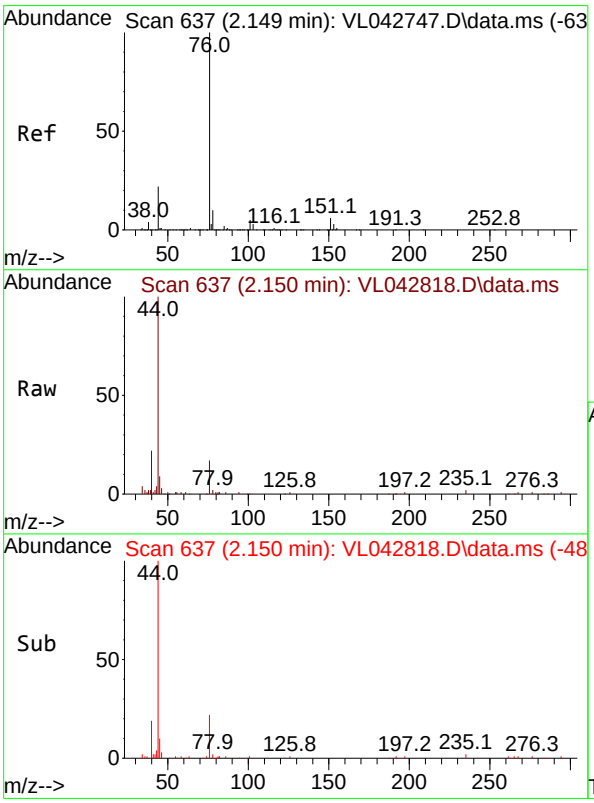
#26
Hexane
Concen: 0.072 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Tgt Ion: 57 Resp: 1411

Ion	Ratio	Lower	Upper
57	100		
41	162.8	75.4	113.2#
43	0.0	185.0	277.6#
56	74.8	42.9	64.3#

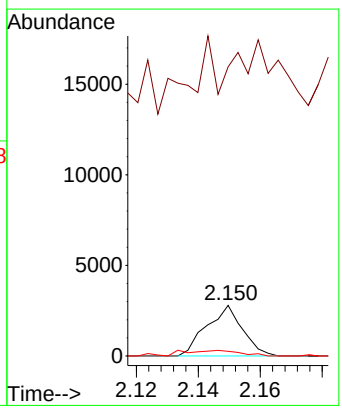


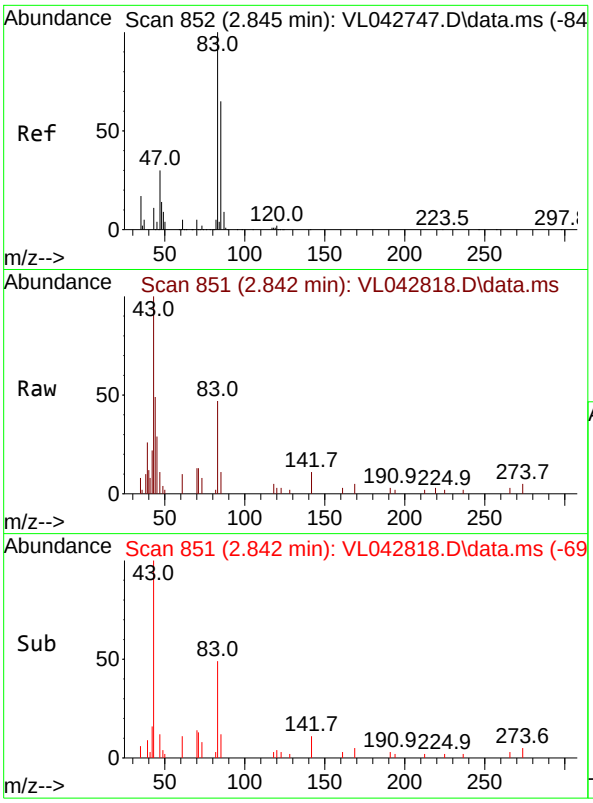


#27
Carbon Disulfide
Concen: 0.133 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 76 Resp: 2245

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	18.6	9.9	14.9#



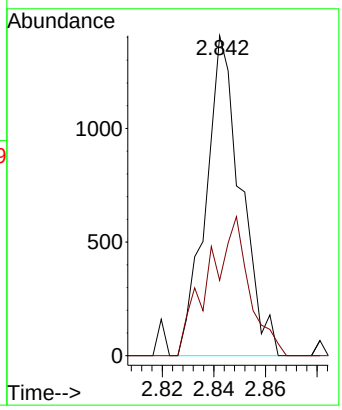


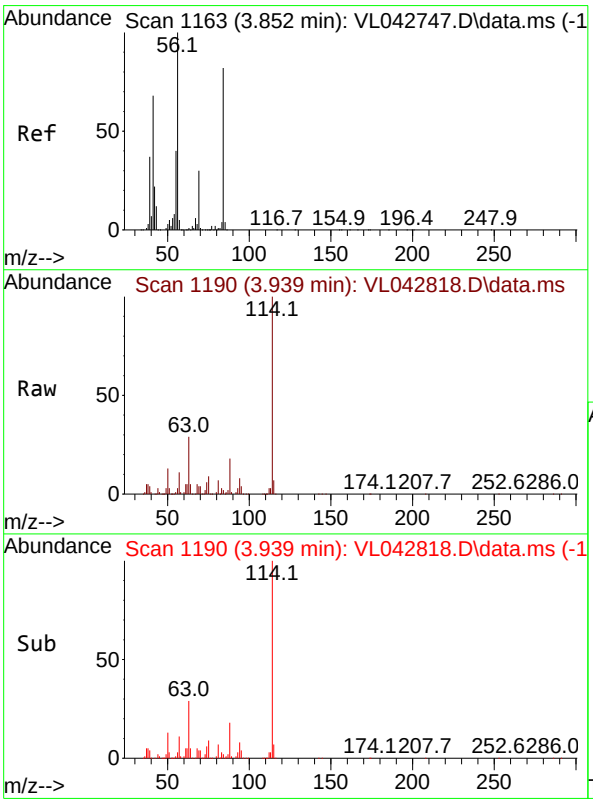
#29
Chloroform
Concen: 0.044 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Tgt Ion: 83 Resp: 1334

Ion	Ratio	Lower	Upper
83	100		
85	23.6	52.2	78.2#

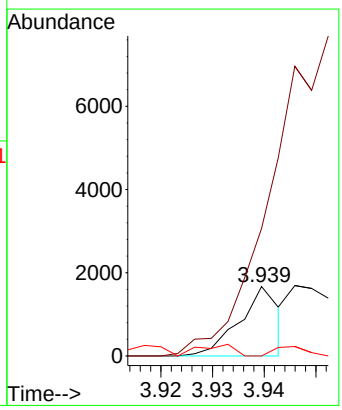


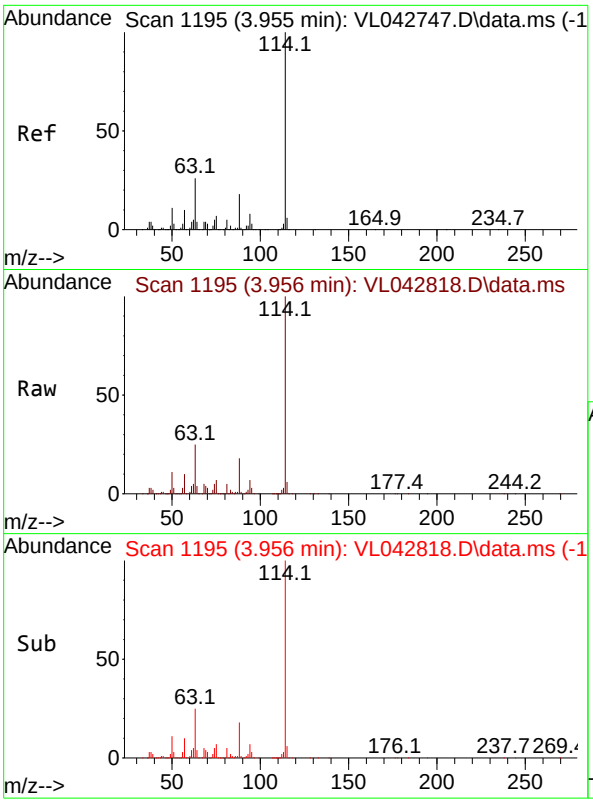


#30
Cyclohexane
Concen: 0.053 ppbv
RT: 3.939 min Scan# 1190
Delta R.T. 0.088 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 84 Resp: 892

Ion	Ratio	Lower	Upper
84	100		
56	0.0	97.5	146.3#
41	39.2	67.2	100.8#



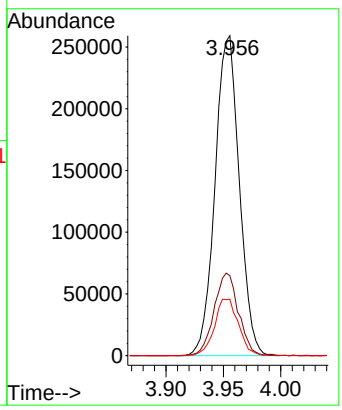


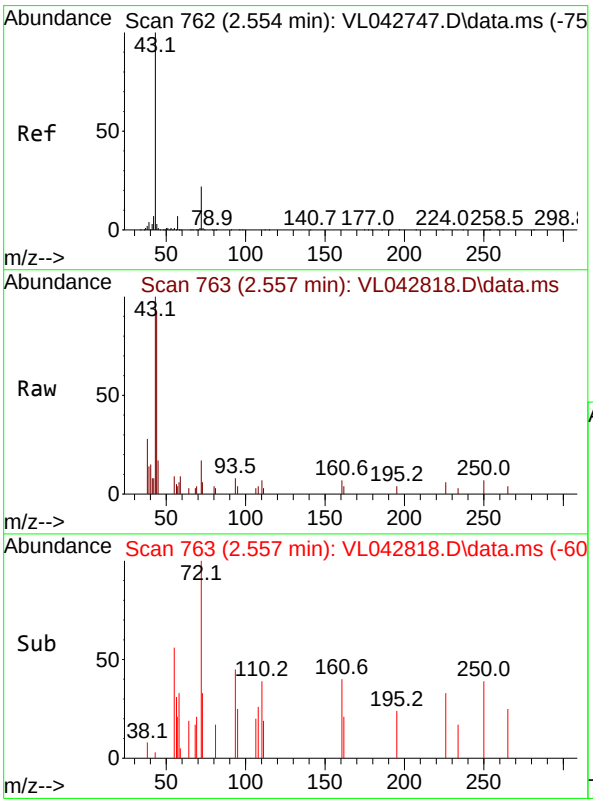
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Tgt Ion:114 Resp: 381523

Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.5	30.7
88	17.6	14.0	21.0

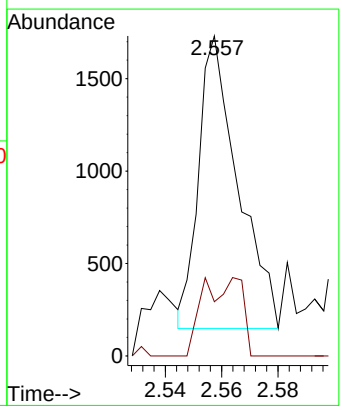


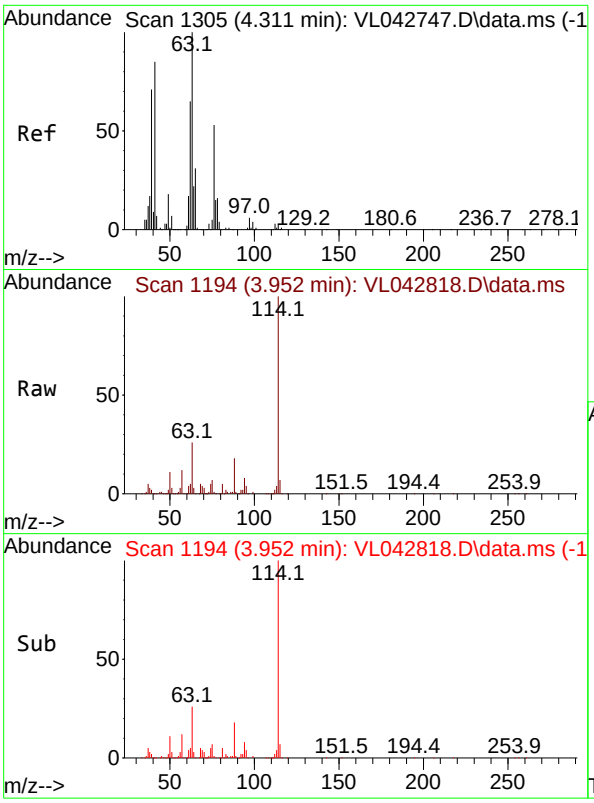


#34
2-Butanone
Concen: 0.057 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 43 Resp: 1535

Ion	Ratio	Lower	Upper
43	100		
72	26.5	17.4	26.0#



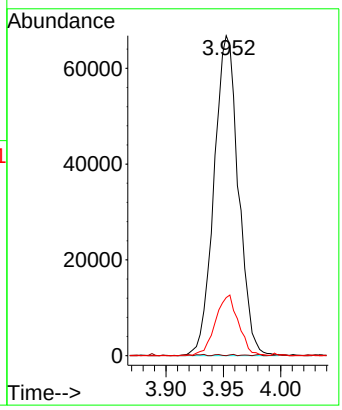


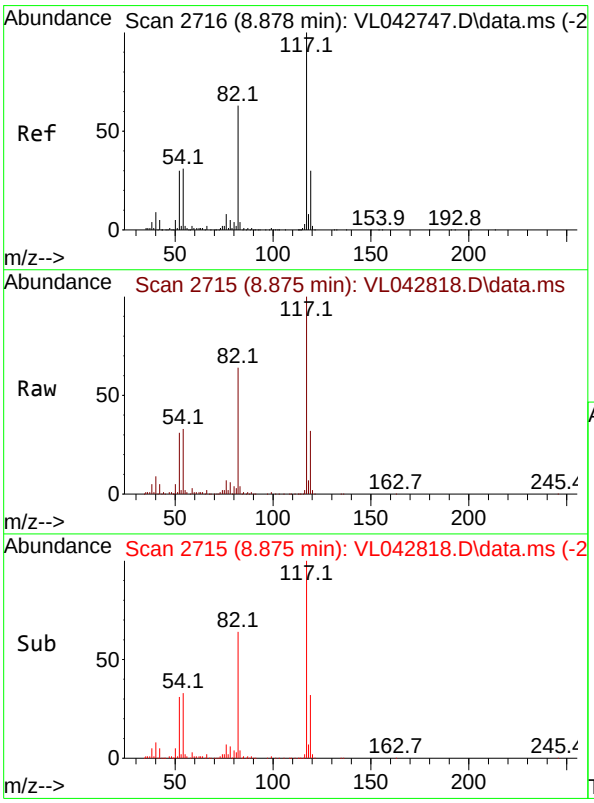
#39
1,2-Dichloropropane
Concen: 7.402 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.359 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Tgt Ion: 63 Resp: 98800

Ion	Ratio	Lower	Upper
63	100		
41	0.1	68.2	102.4#
62	18.1	52.0	78.0#

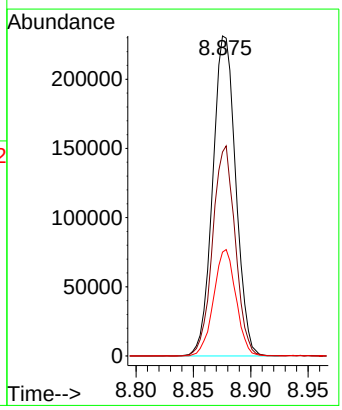


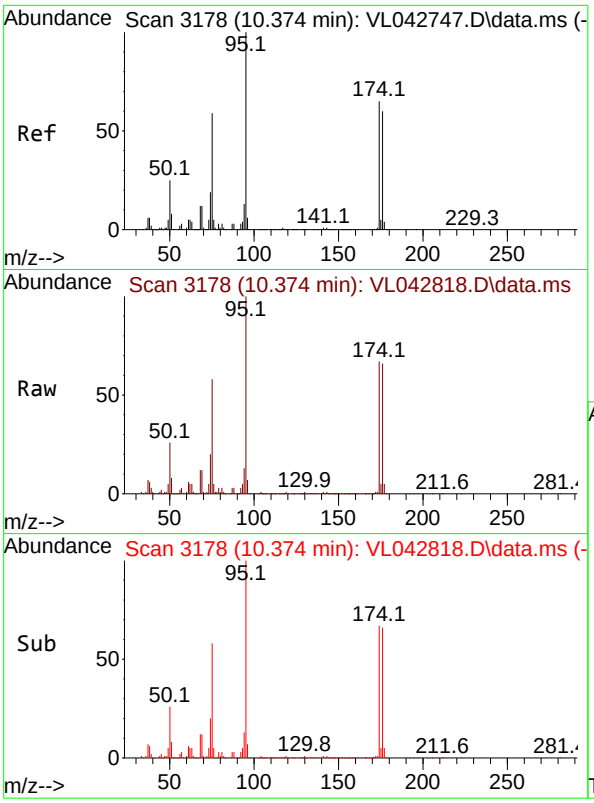


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion:117 Resp: 323135

Ion	Ratio	Lower	Upper
117	100		
82	64.3	53.3	79.9
119	32.4	25.8	38.6



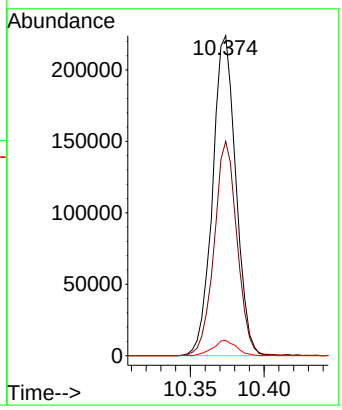


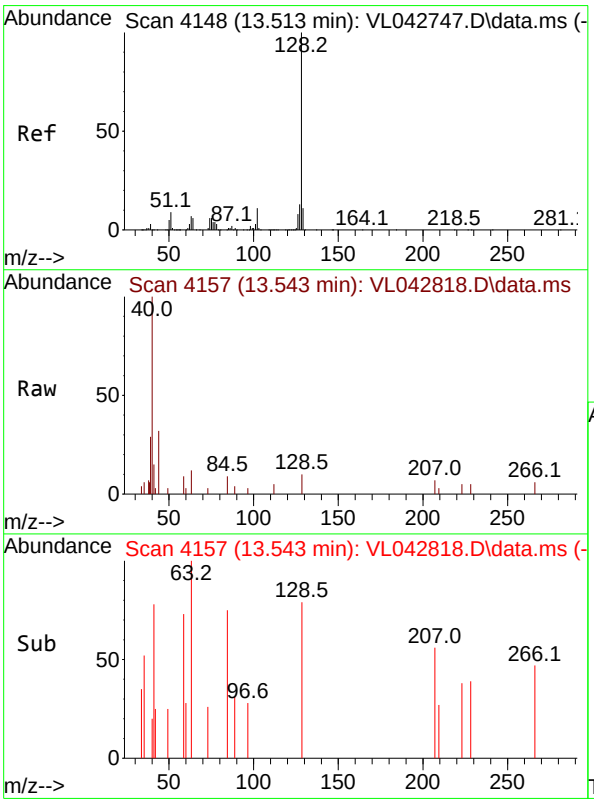
#68
1-Bromo-4-Fluorobenzene
Concen: 9.623 ppbv
RT: 10.374 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Tgt Ion: 95 Resp: 246263

Ion	Ratio	Lower	Upper
95	100		
174	66.0	53.8	80.6
175	4.9	4.0	6.0

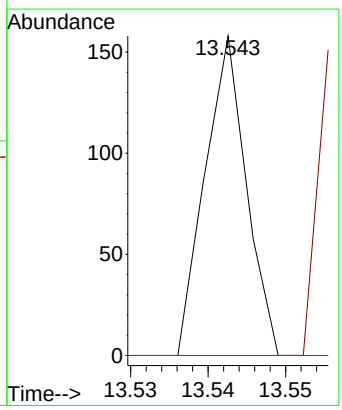


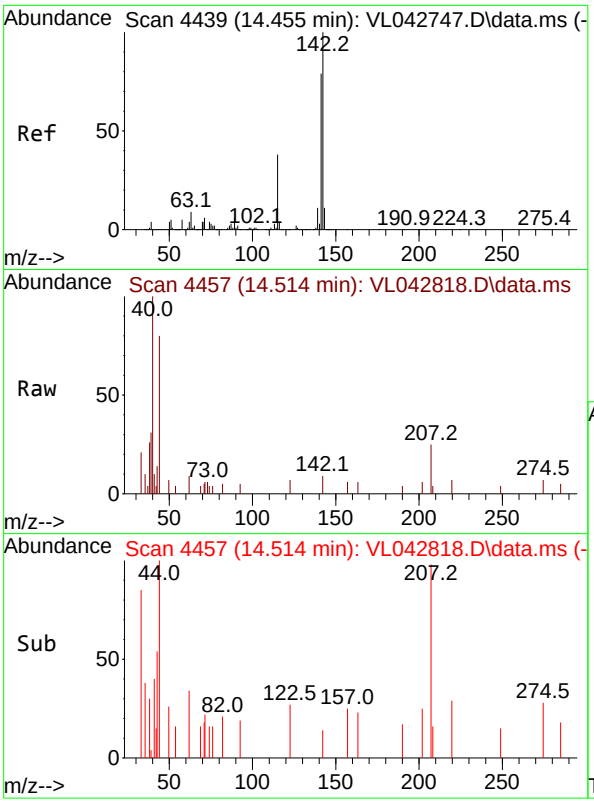


#79
Naphthalene
Concen: 0.436 ppbv
RT: 13.543 min Scan# 4157
Delta R.T. 0.029 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion:128 Resp: 58

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	13.0#



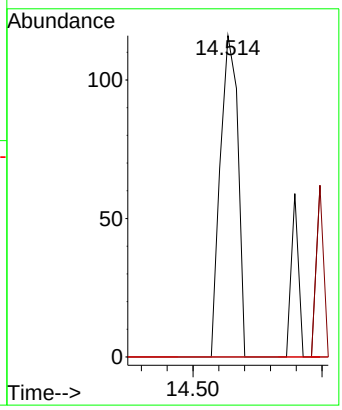


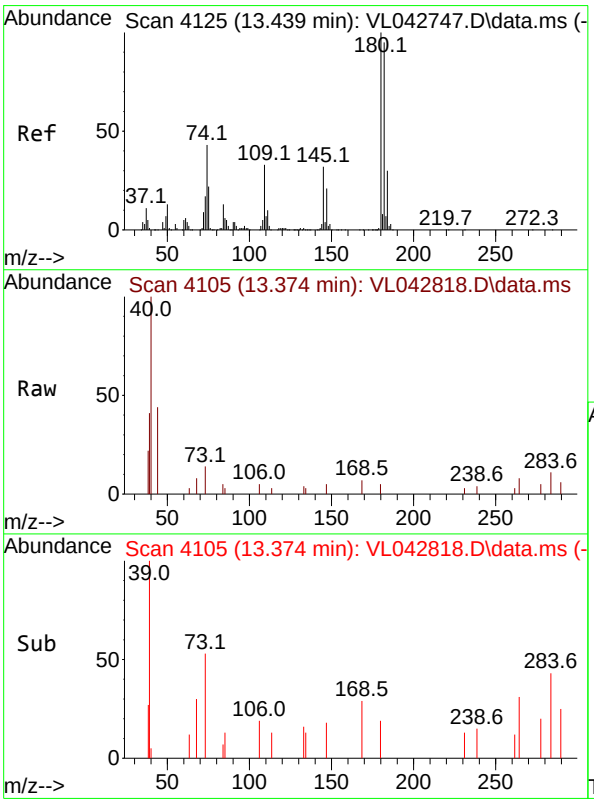
#80
Naphthalene,2-methyl-
Concen: 1.131 ppbv
RT: 14.514 min Scan# 44
Delta R.T. 0.058 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8DL

Tgt Ion:142 Resp: 55

Ion	Ratio	Lower	Upper
142	100		
141	65.5	65.8	98.8#
115	0.0	31.2	46.8#

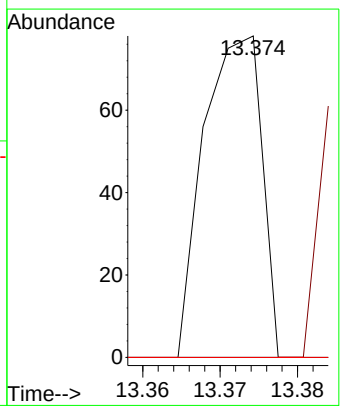




#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.374 min Scan# 4105
Delta R.T. -0.065 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion:180 Resp: 41

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	0.0	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042819.D
Acq On : 04 Aug 2025 23:04
Operator : SY/MD
Sample : Q2750-08DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Quant Time: Aug 05 01:14:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	146039	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	370265	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	315446	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.371	95	241976	9.686	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	460	0.024	ppbv		96
3) Chlorodifluoromethane	1.473	51	72506	2.883	ppbv		98
4) Chloromethane	1.528	50	373	0.048	ppbv		89
6) Bromomethane	1.664	94	96	0.032	ppbv	#	1
9) Propene	1.887	41	819160	89.607	ppbv		93
13) Ethanol	1.719	45	147608	220.605	ppbv		90
15) Acetone	1.832	43	154472	7.660	ppbv		99
16) 1,3-Butadiene	1.557	39	12483	1.451	ppbv	#	17
17) tert-Butyl alcohol	1.887	59	341416	18.772	ppbv		95
19) Isopropyl Alcohol	1.887	45	3693911	344.700	ppbv	#	40
20) Methylene Chloride	2.062	84	1789	0.282	ppbv	#	61
21) Allyl Chloride	1.887	41	819160	65.910	ppbv	#	84
25) Ethyl Acetate	2.832	43	4921	0.110	ppbv	#	71
26) Hexane	2.826	57	500	0.026	ppbv	#	1
27) Carbon Disulfide	2.146	76	2060	0.123	ppbv	#	64
34) 2-Butanone	2.561	43	1637	0.062	ppbv		99
39) 1,2-Dichloropropane	3.952	63	94166	7.270	ppbv	#	22
79) Naphthalene	13.432	128	43	0.436	ppbv	#	69
80) Naphthalene,2-methyl-	14.374	142	47	1.130	ppbv	#	63
81) 1,2,4-Trichlorobenzene	13.445	180	26	0.436	ppbv	#	12

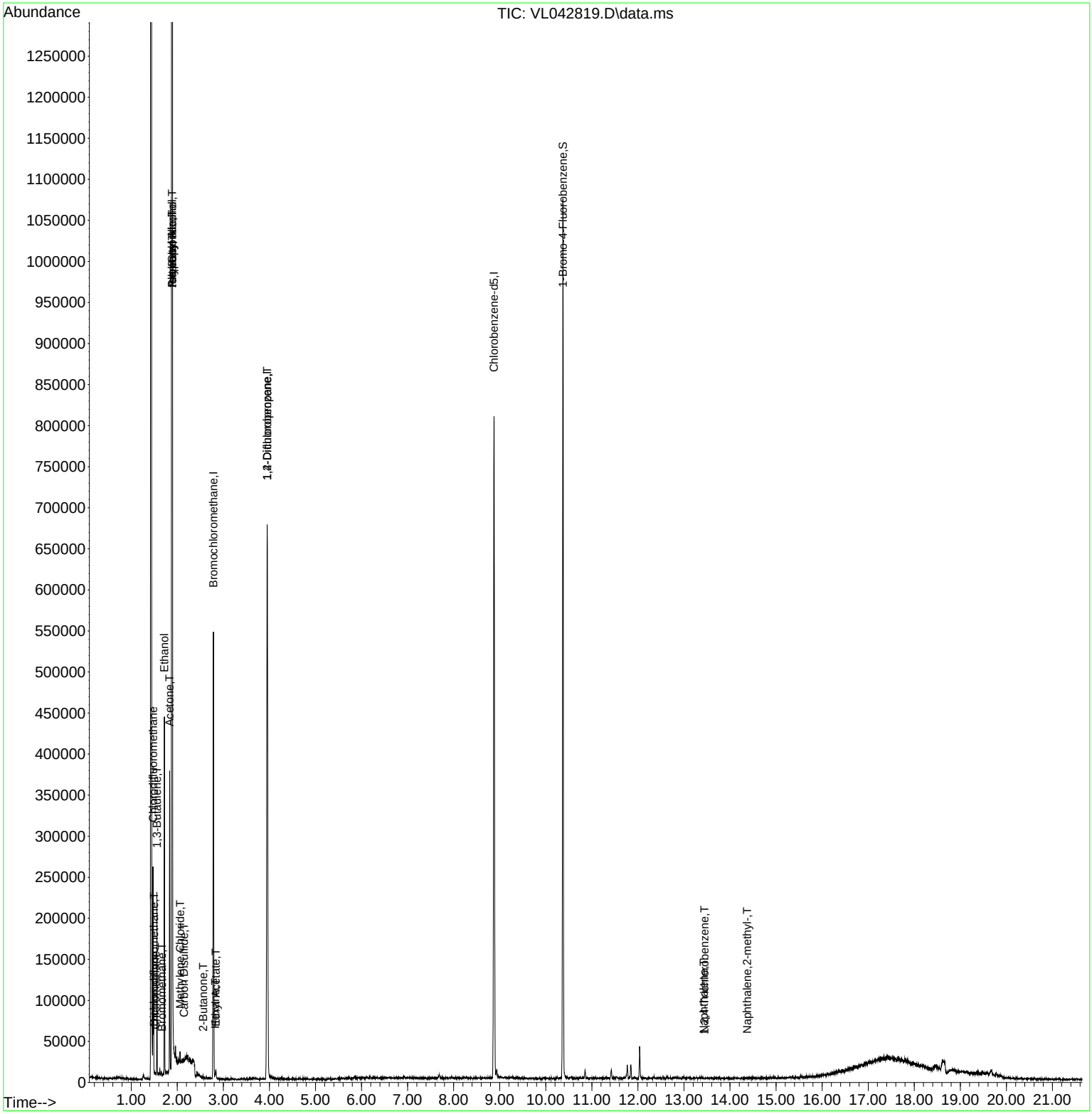
(#) = qualifier out of range (m) = manual integration (+) = signals summed

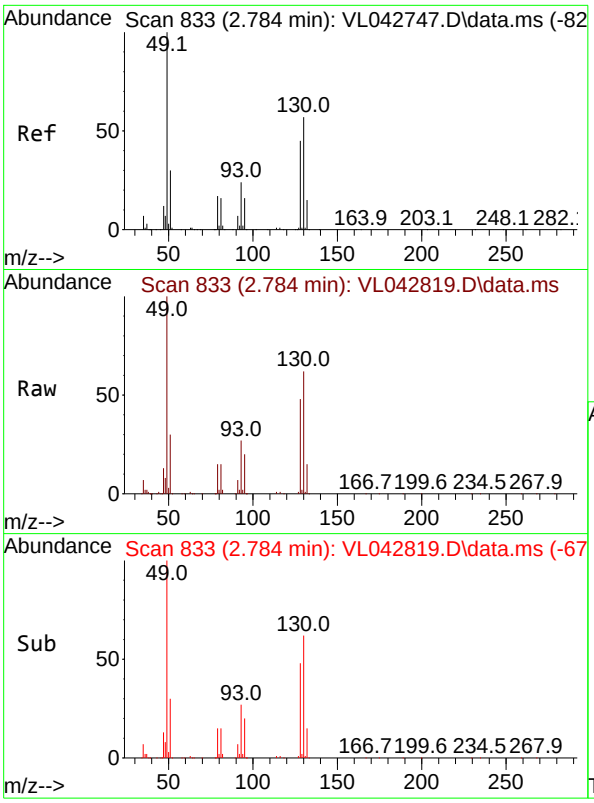
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042819.D
Acq On : 04 Aug 2025 23:04
Operator : SY/MD
Sample : Q2750-08DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Quant Time: Aug 05 01:14:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



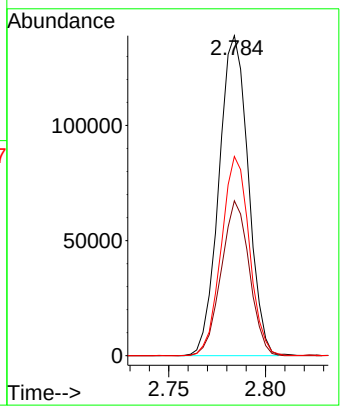


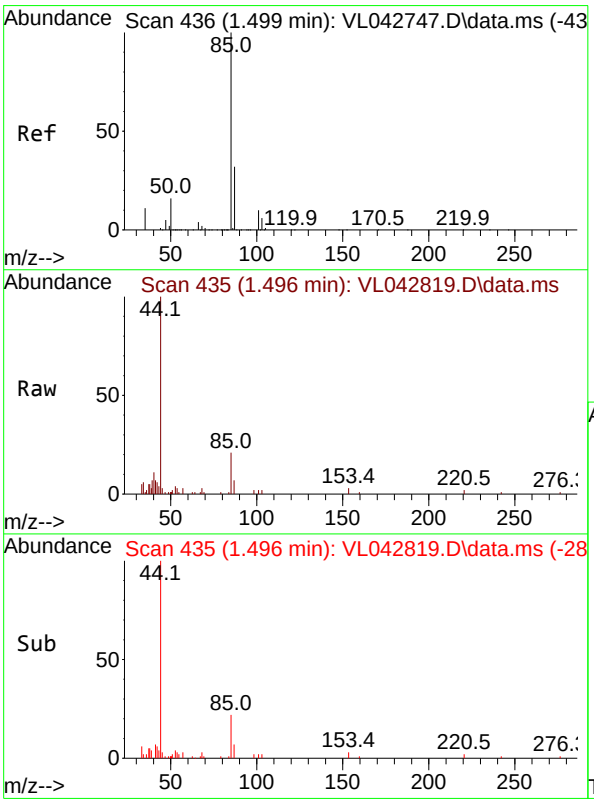
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Tgt Ion: 49 Resp: 146039

Ion	Ratio	Lower	Upper
49	100		
128	46.5	23.6	71.0
130	59.9	30.3	90.8

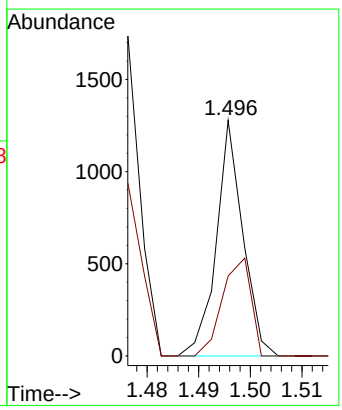


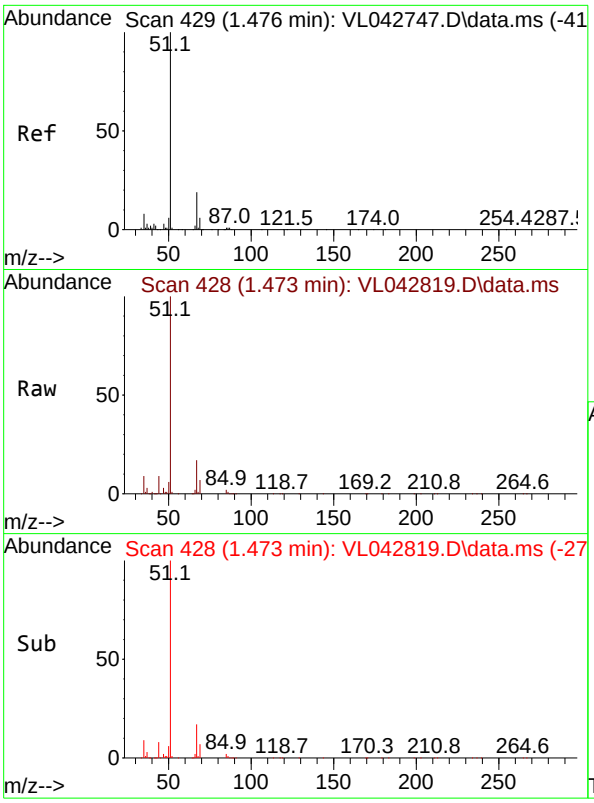


#2
Dichlorodifluoromethane
Concen: 0.024 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 85 Resp: 460

Ion	Ratio	Lower	Upper
85	100		
87	33.9	25.4	38.2



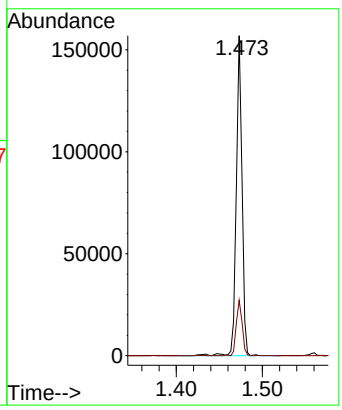


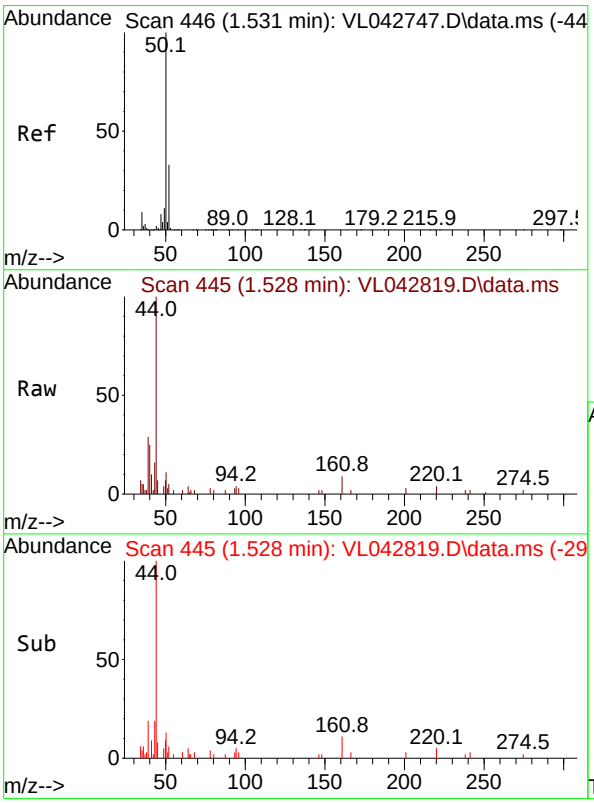
#3
Chlorodifluoromethane
Concen: 2.883 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Tgt Ion: 51 Resp: 72506

Ion	Ratio	Lower	Upper
51	100		
67	17.8	15.0	22.6

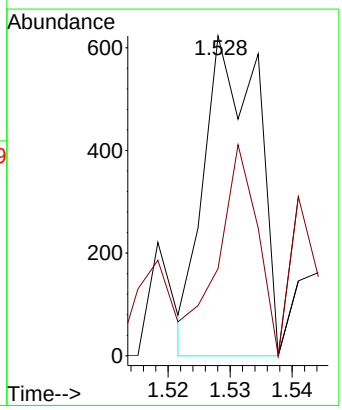


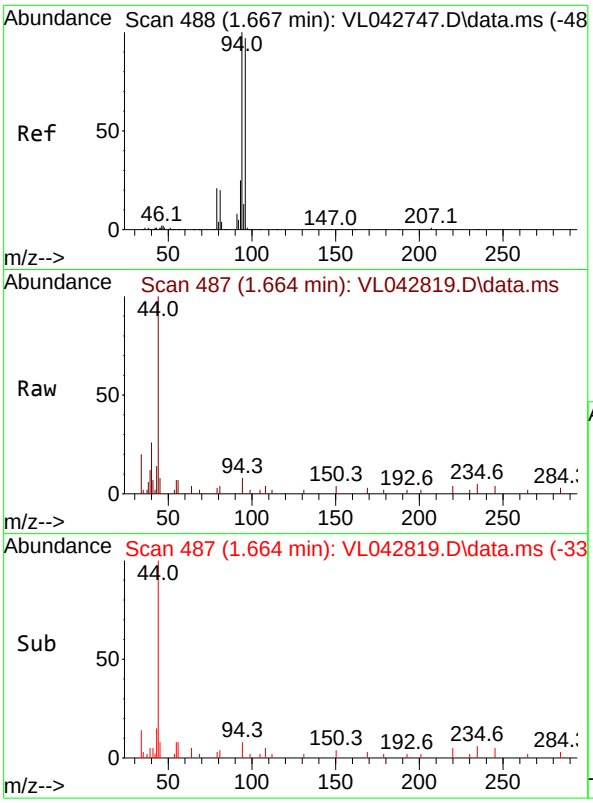


#4
Chloromethane
Concen: 0.048 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 50 Resp: 373

Ion	Ratio	Lower	Upper
50	100		
52	27.3	26.6	40.0



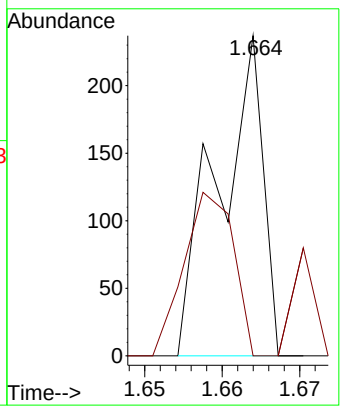


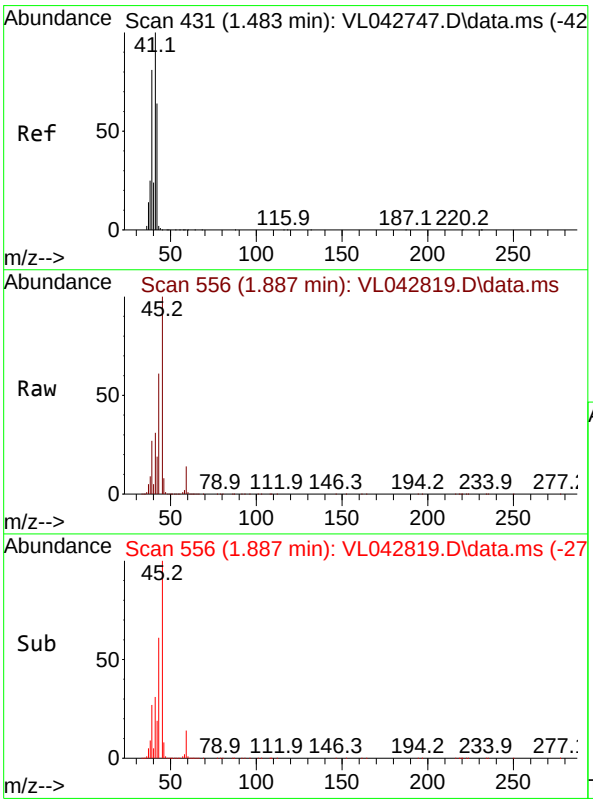
#6
Bromomethane
Concen: 0.032 ppbv
RT: 1.664 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Tgt Ion: 94 Resp: 96

Ion	Ratio	Lower	Upper
94	100		
96	0.0	77.6	116.4#

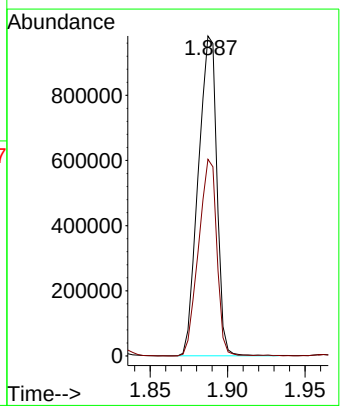


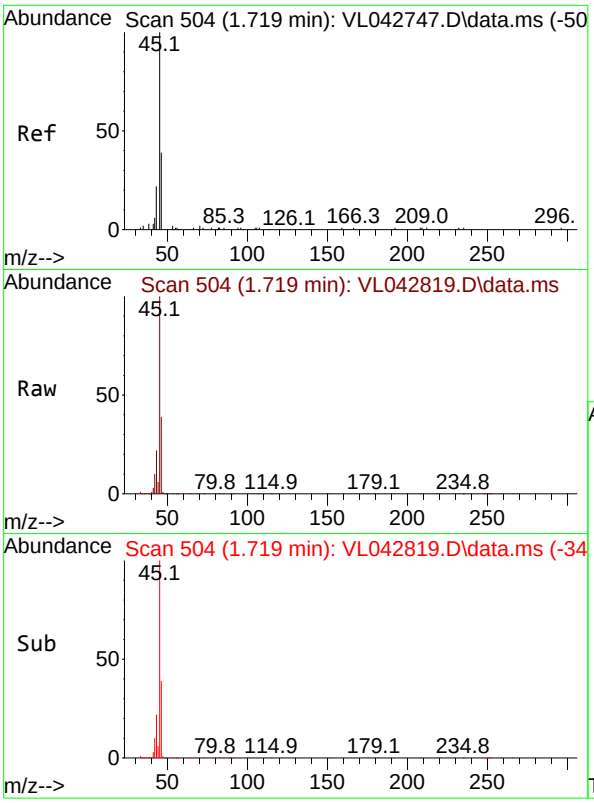


#9
Propene
Concen: 89.607 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.405 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 41 Resp: 819160

Ion	Ratio	Lower	Upper
41	100		
42	60.6	53.2	79.8



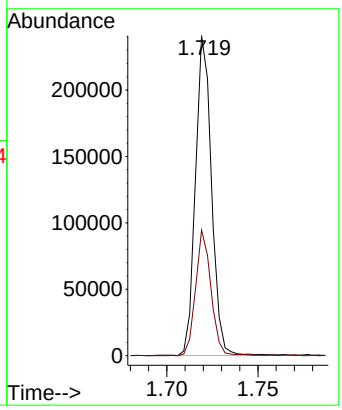


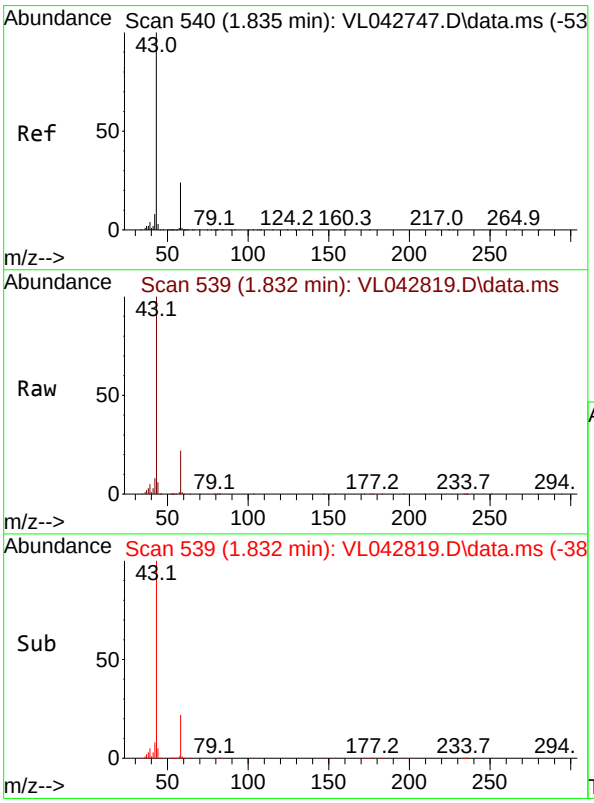
#13
Ethanol
Concen: 220.605 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Tgt Ion: 45 Resp: 147608

Ion	Ratio	Lower	Upper
45	100		
46	37.8	17.8	71.4

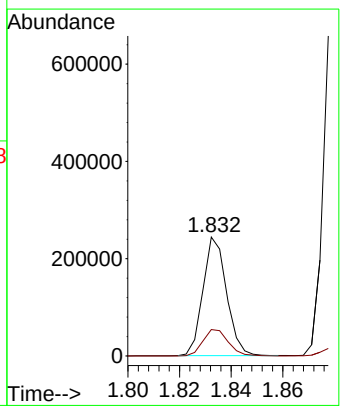


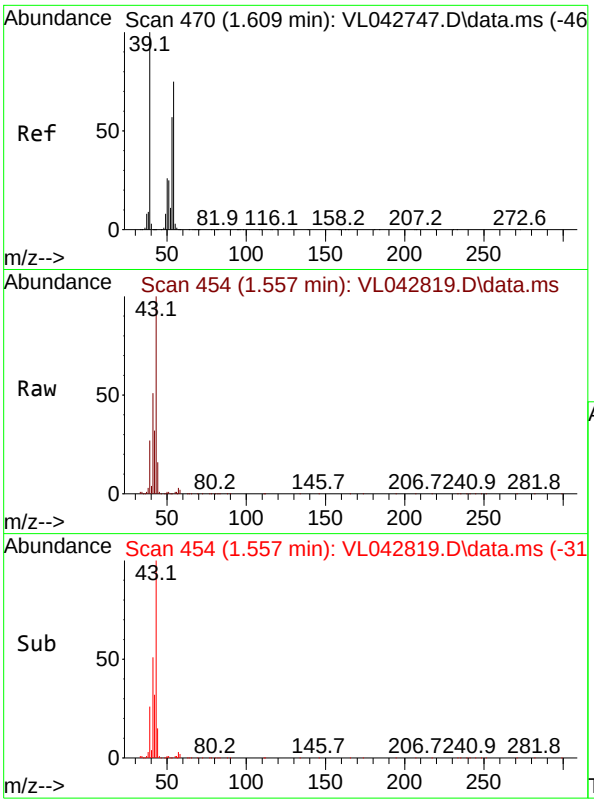


#15
Acetone
Concen: 7.660 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 43 Resp: 154472

Ion	Ratio	Lower	Upper
43	100		
58	24.1	19.8	29.8



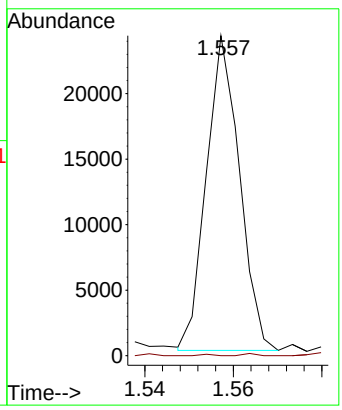


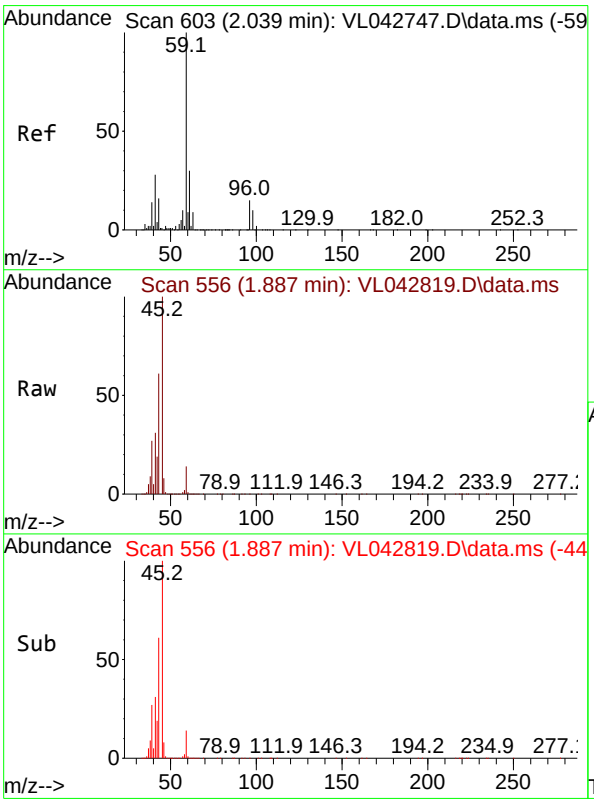
#16
1,3-Butadiene
Concen: 1.451 ppbv
RT: 1.557 min Scan# 4
Delta R.T. -0.052 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Tgt Ion: 39 Resp: 12483

Ion	Ratio	Lower	Upper
39	100		
54	1.4	54.5	81.7#

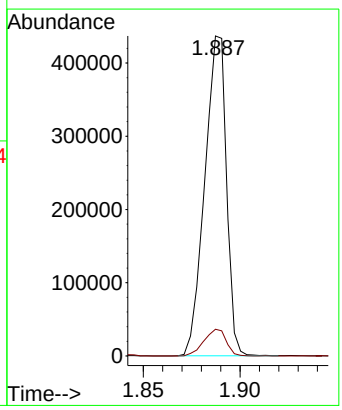


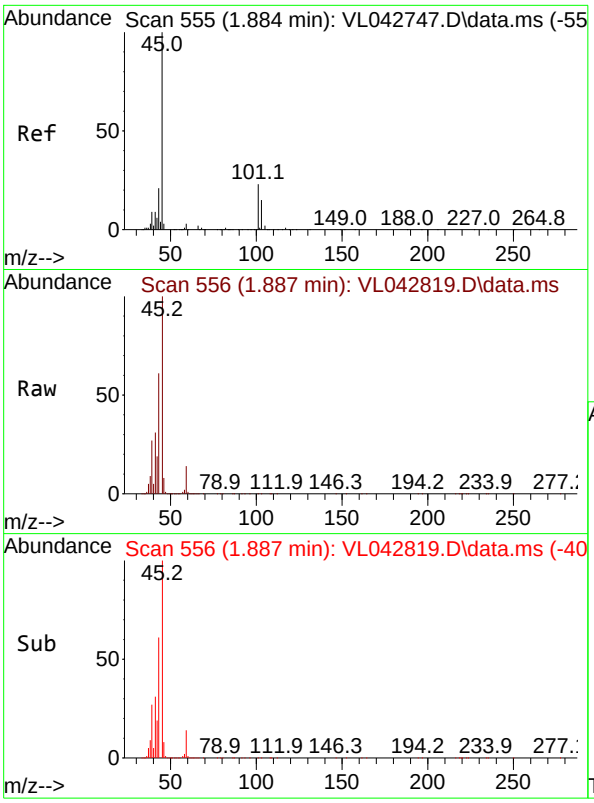


#17
tert-Butyl alcohol
Concen: 18.772 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.152 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 59 Resp: 341416

Ion	Ratio	Lower	Upper
59	100		
57	8.5	8.3	12.5



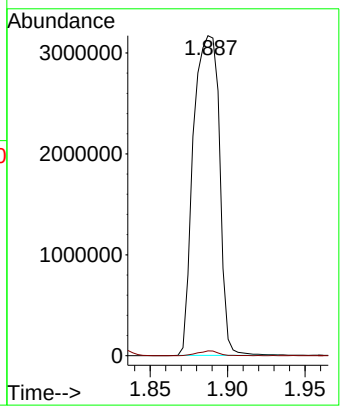


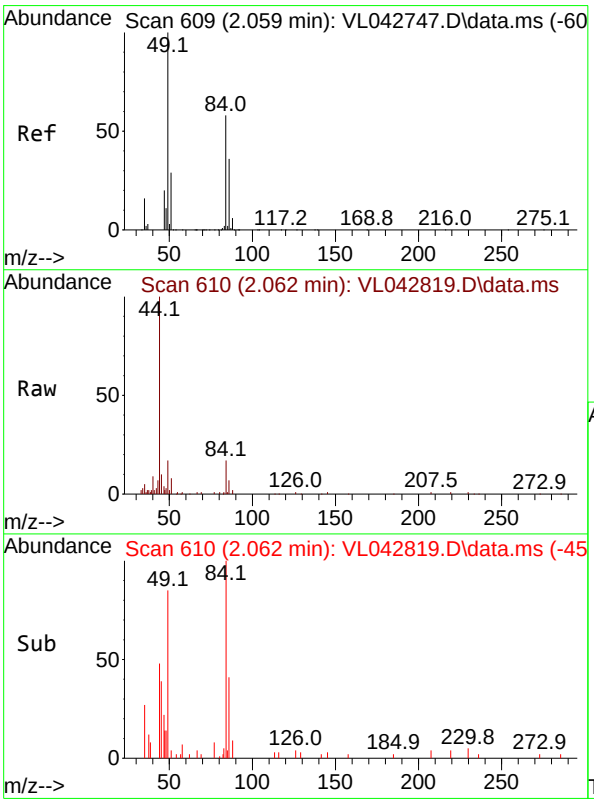
#19
Isopropyl Alcohol
Concen: 344.700 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Tgt Ion: 45 Resp: 3693911

Ion	Ratio	Lower	Upper
45	100		
58	1.3	30.0	45.0#

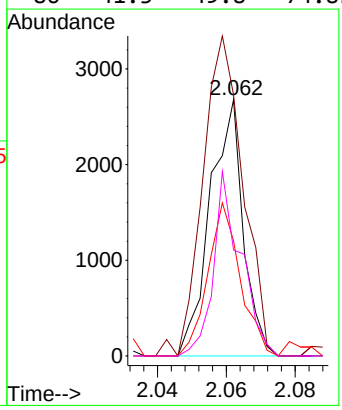


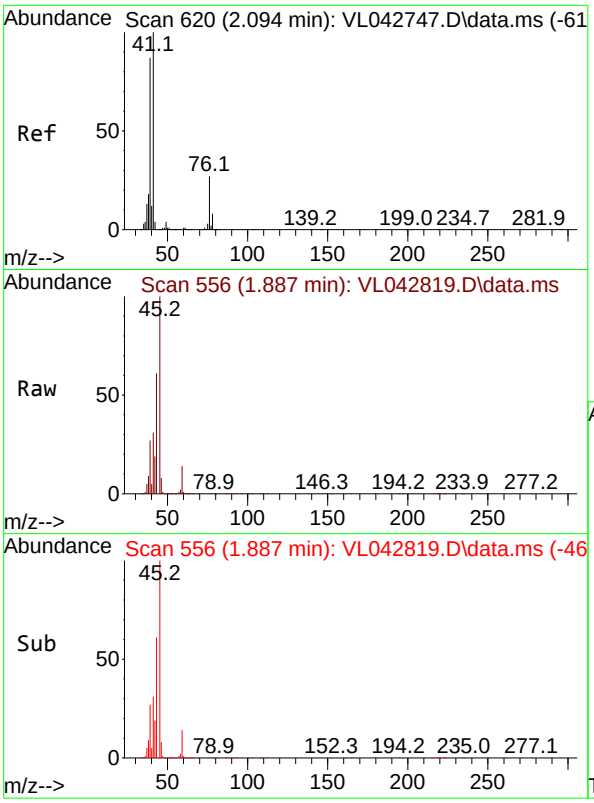


#20
Methylene Chloride
Concen: 0.282 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 84 Resp: 1789

Ion	Ratio	Lower	Upper
84	100		
49	101.9	138.6	208.0#
51	44.9	40.6	61.0
86	41.3	49.8	74.8#



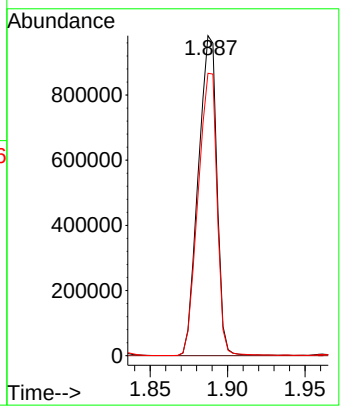


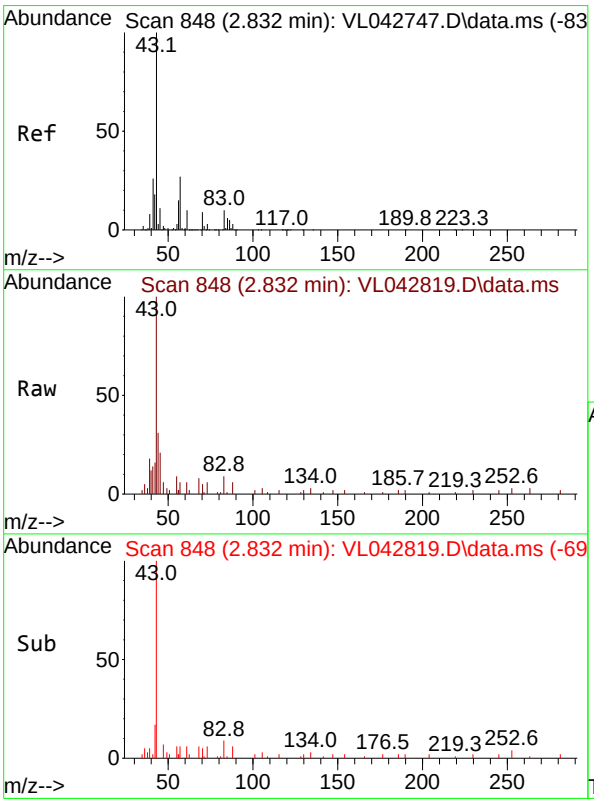
#21
Allyl Chloride
Concen: 65.910 ppbv
RT: 1.887 min Scan# 5
Delta R.T. -0.207 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Tgt Ion: 41 Resp: 819160

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.1	31.7#
39	89.8	68.3	102.5

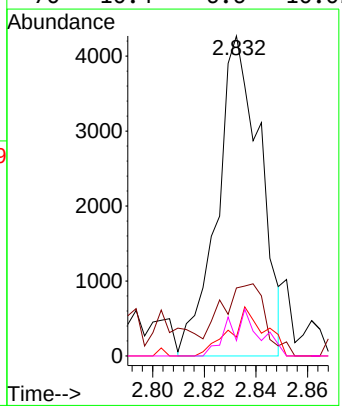


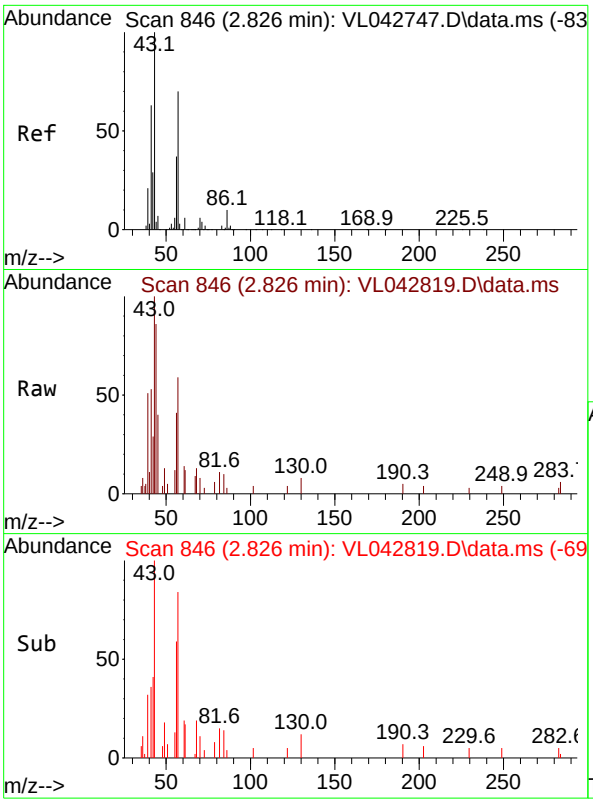


#25
Ethyl Acetate
Concen: 0.110 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 43 Resp: 4921

Ion	Ratio	Lower	Upper
43	100		
45	33.2	7.8	11.6#
61	12.4	6.7	10.1#
70	10.4	6.6	10.0#



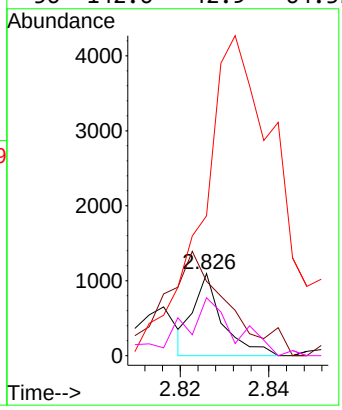


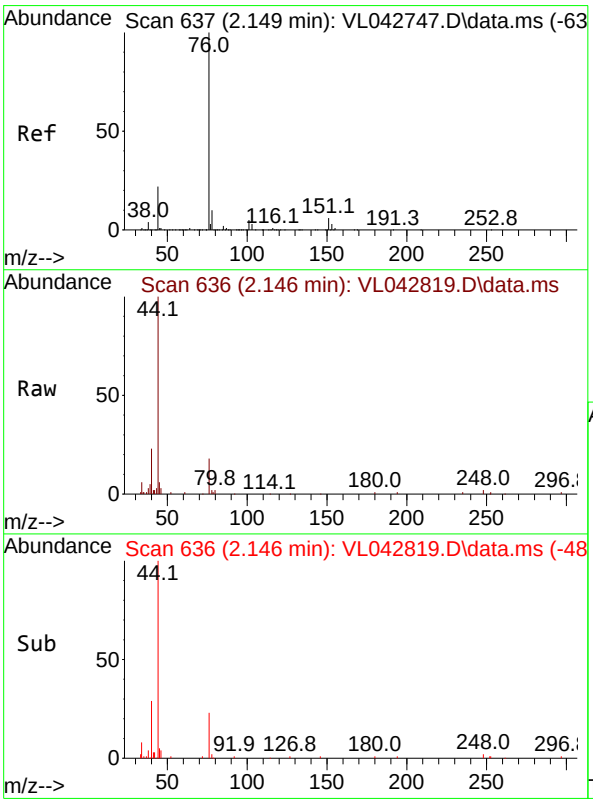
#26
Hexane
Concen: 0.026 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Tgt Ion: 57 Resp: 500

Ion	Ratio	Lower	Upper
57	100		
41	427.4	75.4	113.2#
43	1240.8	185.0	277.6#
56	142.6	42.9	64.3#

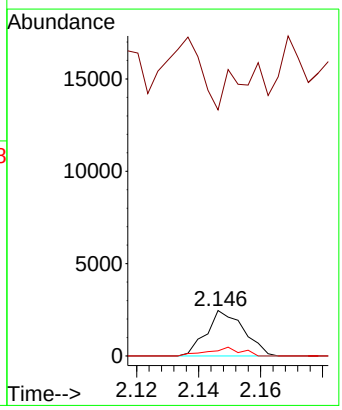


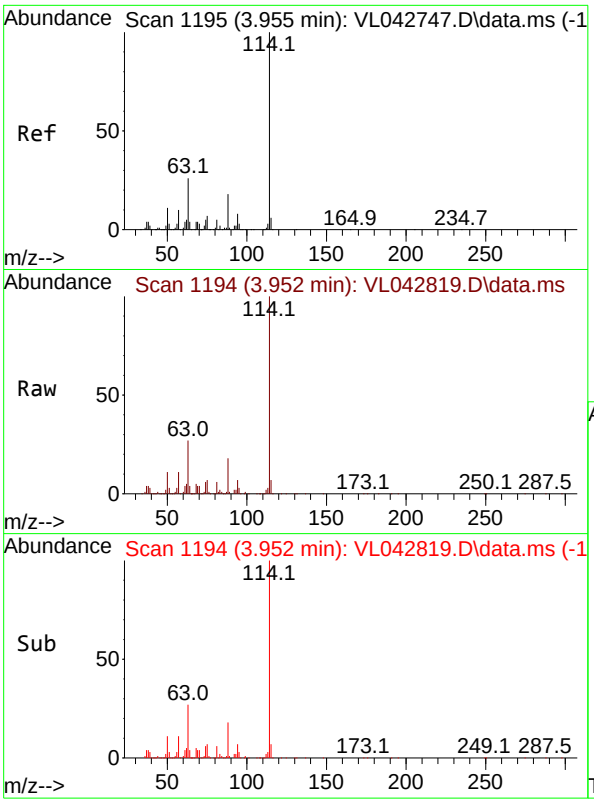


#27
Carbon Disulfide
Concen: 0.123 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 76 Resp: 2060

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	16.6	9.9	14.9#



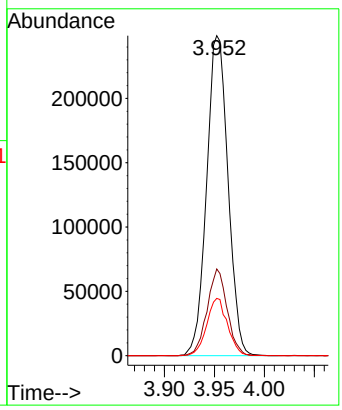


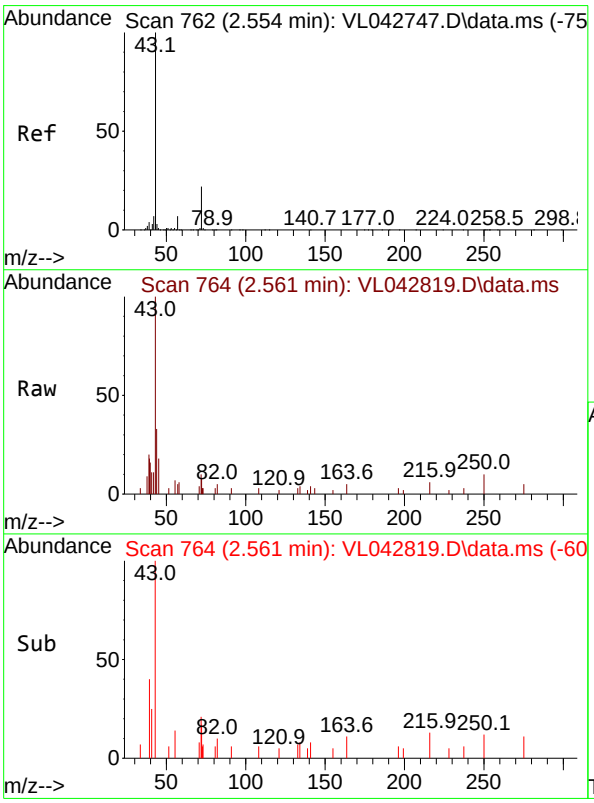
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Tgt Ion:114 Resp: 370265

Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.5	30.7
88	17.4	14.0	21.0

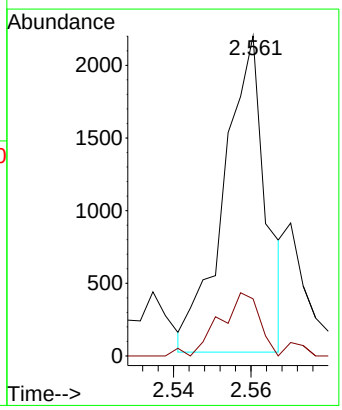


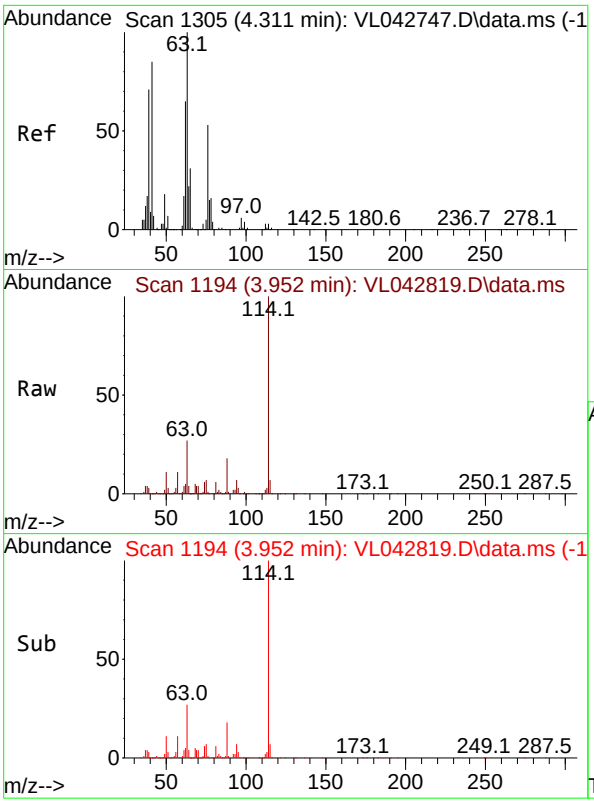


#34
2-Butanone
Concen: 0.062 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.007 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 43 Resp: 1637

Ion	Ratio	Lower	Upper
43	100		
72	21.1	17.4	26.0



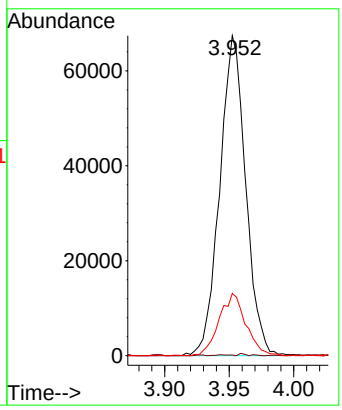


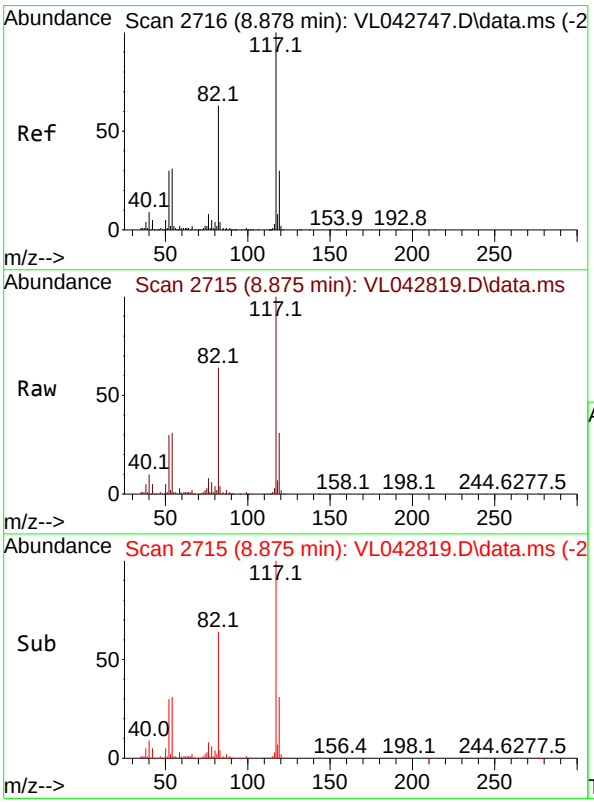
#39
1,2-Dichloropropane
Concen: 7.270 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.359 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Tgt Ion: 63 Resp: 94166

Ion	Ratio	Lower	Upper
63	100		
41	0.2	68.2	102.4#
62	19.3	52.0	78.0#

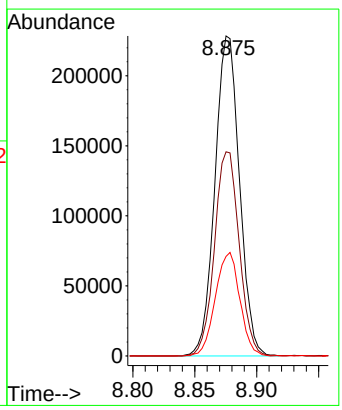


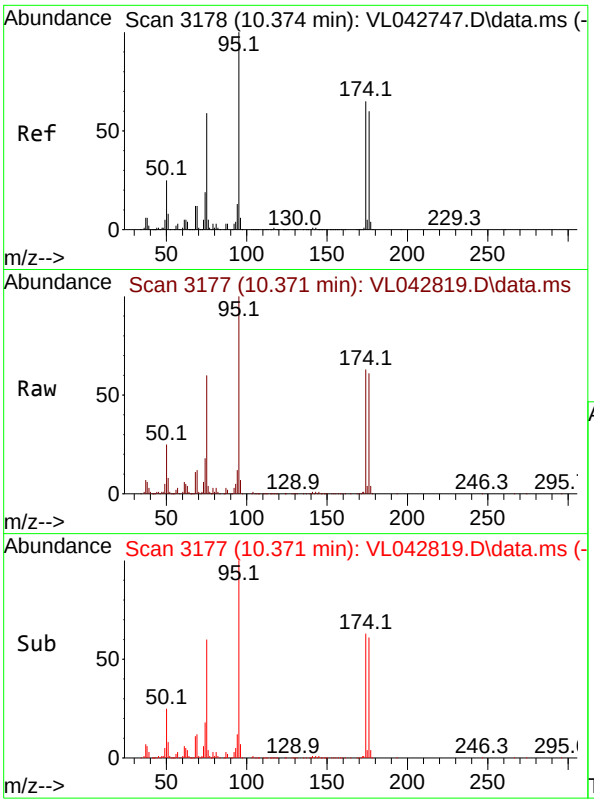


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion:117 Resp: 315446

Ion	Ratio	Lower	Upper
117	100		
82	64.2	53.3	79.9
119	32.4	25.8	38.6



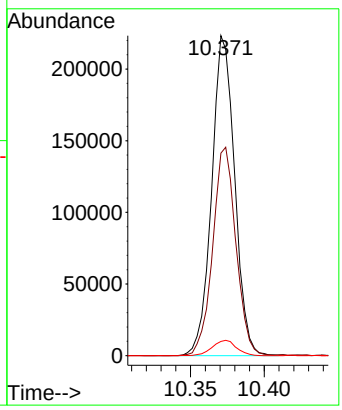


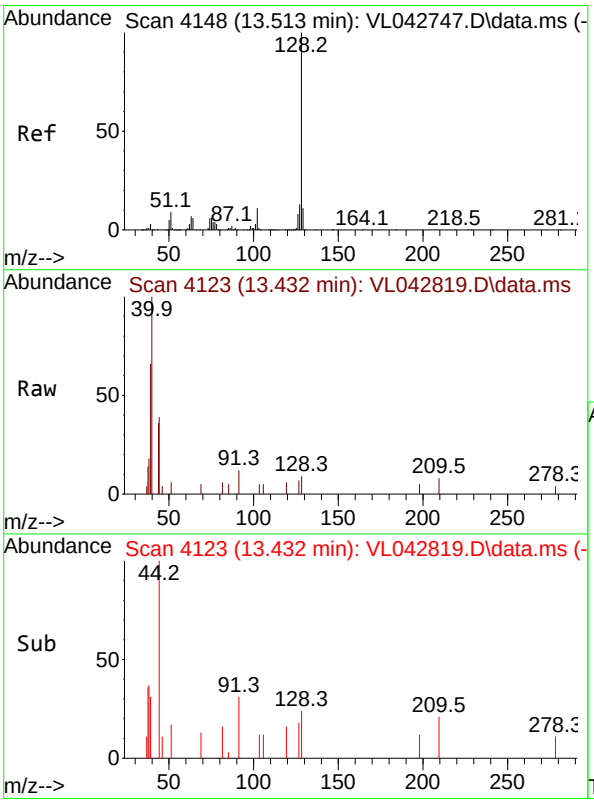
#68
1-Bromo-4-Fluorobenzene
Concen: 9.686 ppbv
RT: 10.371 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Tgt Ion: 95 Resp: 241976

Ion	Ratio	Lower	Upper
95	100		
174	66.3	53.8	80.6
175	5.1	4.0	6.0

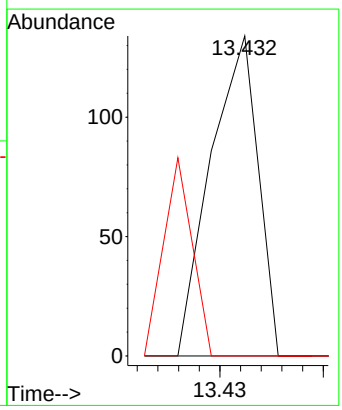


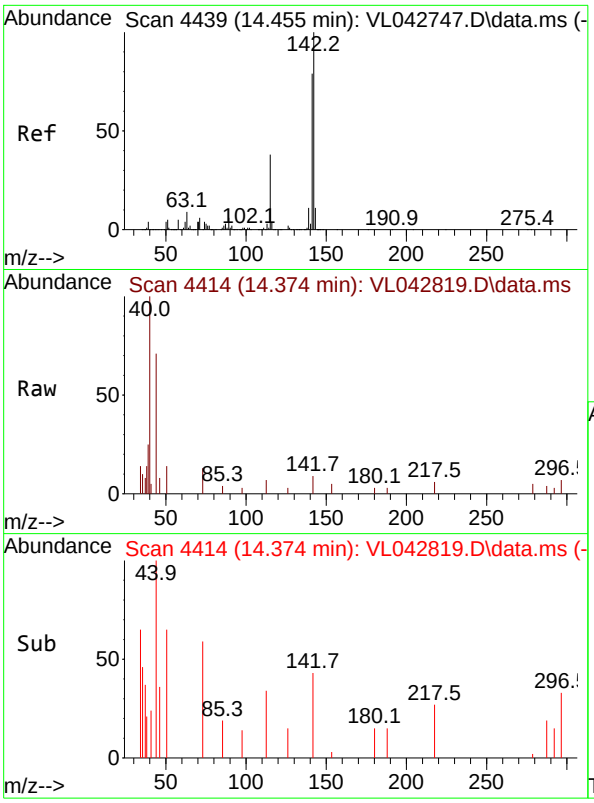


#79
Naphthalene
Concen: 0.436 ppbv
RT: 13.432 min Scan# 4123
Delta R.T. -0.081 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion:128 Resp: 43

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	13.0#



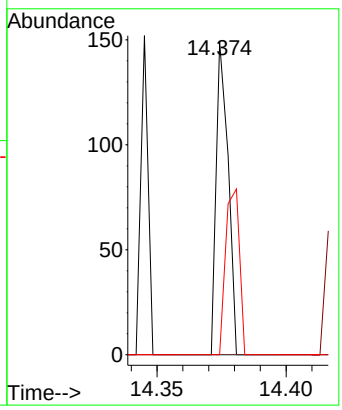


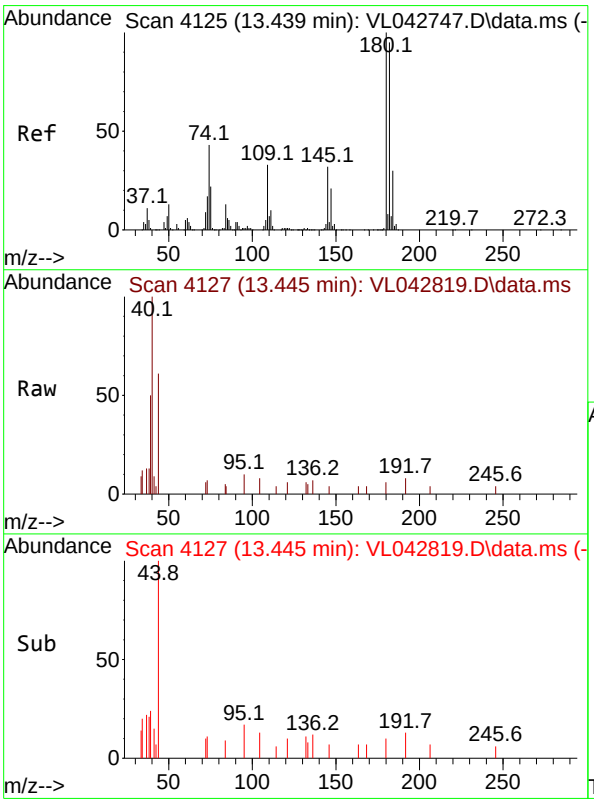
#80
Naphthalene,2-methyl-
Concen: 1.130 ppbv
RT: 14.374 min Scan# 44
Delta R.T. -0.081 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Tgt Ion:142 Resp: 47

Ion	Ratio	Lower	Upper
142	100		
141	48.9	65.8	98.8#
115	61.7	31.2	46.8#

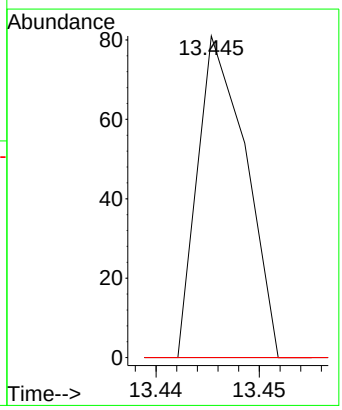




#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.445 min Scan# 4127
Delta R.T. 0.007 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion:180 Resp: 26

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	0.0	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042821.D
Acq On : 05 Aug 2025 00:12
Operator : SY/MD
Sample : Q2750-01DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Quant Time: Aug 05 01:15:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	148113	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	371352	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	318755	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	247401	9.801	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	742	0.038	ppbv #	77
3) Chlorodifluoromethane	1.473	51	145902	5.719	ppbv	99
4) Chloromethane	1.531	50	3318	0.419	ppbv	90
6) Bromomethane	1.670	94	70	0.023	ppbv #	1
7) Chloroethane	1.706	64	81	0.027	ppbv #	45
9) Propene	1.894	41	1245082	134.292	ppbv	94
13) Ethanol	1.719	45	223904	330.517	ppbv	89
15) Acetone	1.832	43	168012	8.215	ppbv	99
16) 1,3-Butadiene	1.557	39	15587	1.787	ppbv #	17
17) tert-Butyl alcohol	1.894	59	540458	29.300	ppbv #	93
19) Isopropyl Alcohol	1.894	45	4673053	429.964	ppbv #	40
20) Methylene Chloride	2.059	84	2276	0.353	ppbv #	76
21) Allyl Chloride	1.894	41	1245082	98.777	ppbv #	84
23) Vinyl Acetate	2.450	43	2169	0.087	ppbv #	77
25) Ethyl Acetate	2.836	43	7864	0.174	ppbv #	69
26) Hexane	2.826	57	1040	0.052	ppbv #	1
27) Carbon Disulfide	2.149	76	2798	0.165	ppbv #	66
29) Chloroform	2.845	83	1581	0.052	ppbv	88
34) 2-Butanone	2.557	43	1559	0.059	ppbv #	80
39) 1,2-Dichloropropane	3.955	63	97685	7.519	ppbv #	21
79) Naphthalene	13.662	128	75	0.437	ppbv #	69
80) Naphthalene,2-methyl-	14.656	142	42	1.130	ppbv	89
81) 1,2,4-Trichlorobenzene	13.533	180	32	0.436	ppbv #	12

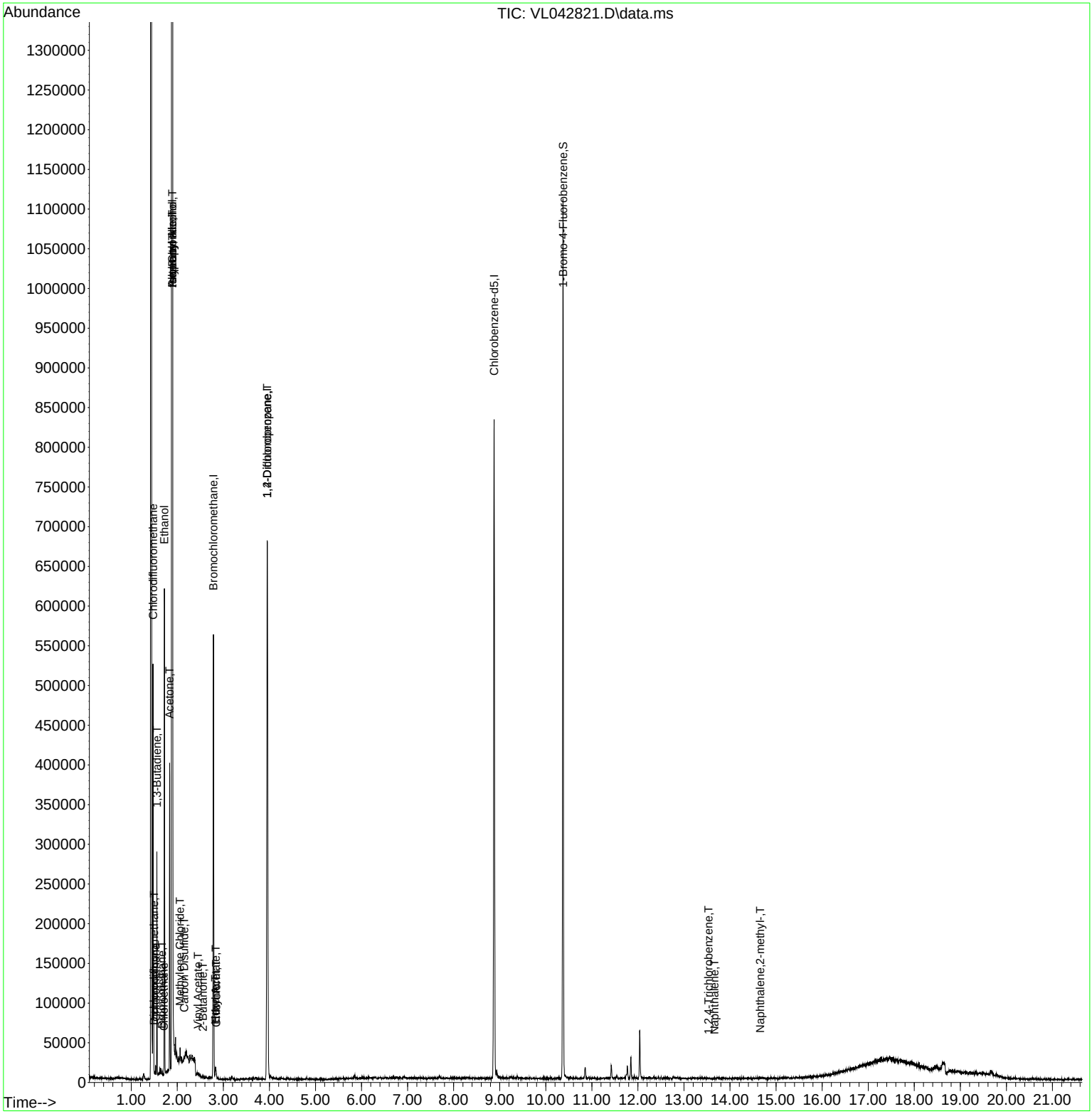
(#) = qualifier out of range (m) = manual integration (+) = signals summed

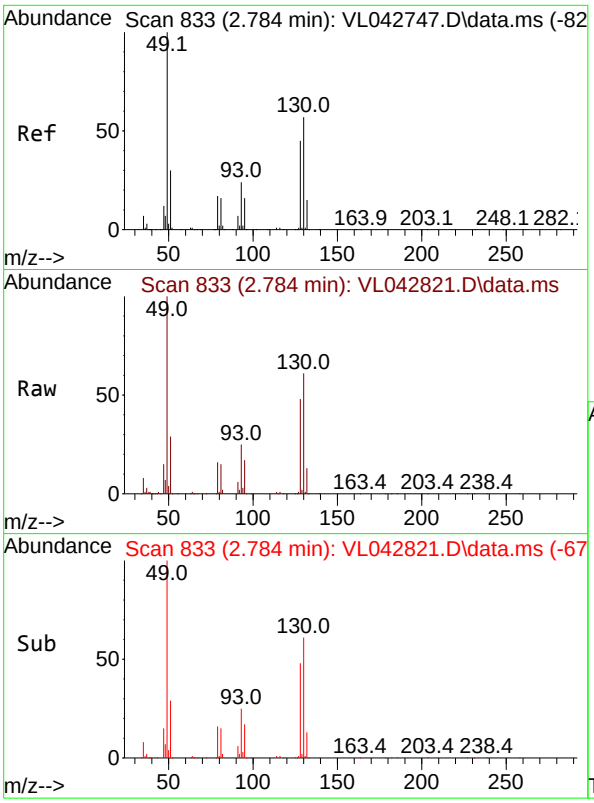
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042821.D
Acq On : 05 Aug 2025 00:12
Operator : SY/MD
Sample : Q2750-01DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Quant Time: Aug 05 01:15:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



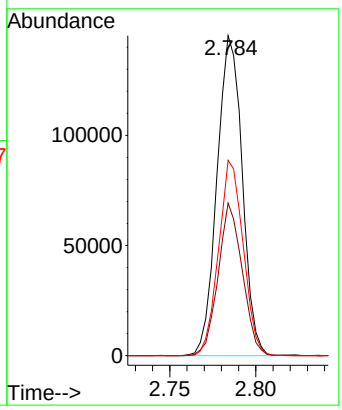


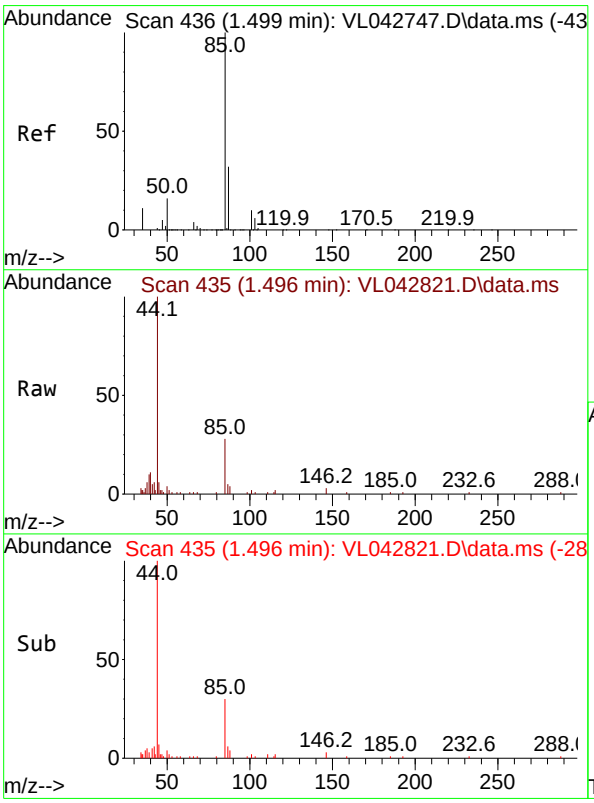
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion: 49 Resp: 148113

Ion	Ratio	Lower	Upper
49	100		
128	45.7	23.6	71.0
130	59.7	30.3	90.8

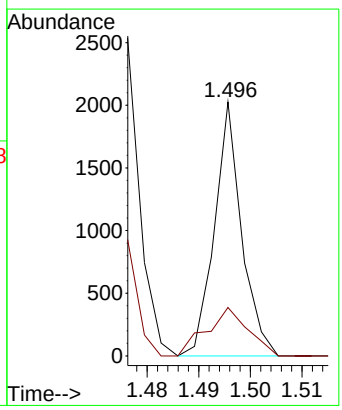


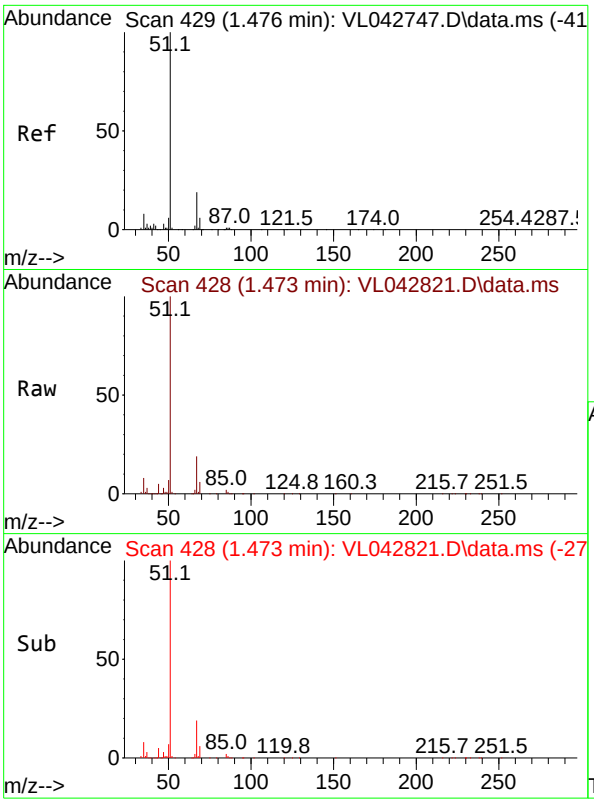


#2
Dichlorodifluoromethane
Concen: 0.038 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 85 Resp: 742

Ion	Ratio	Lower	Upper
85	100		
87	19.1	25.4	38.2#



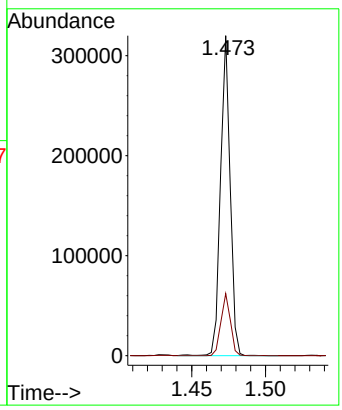


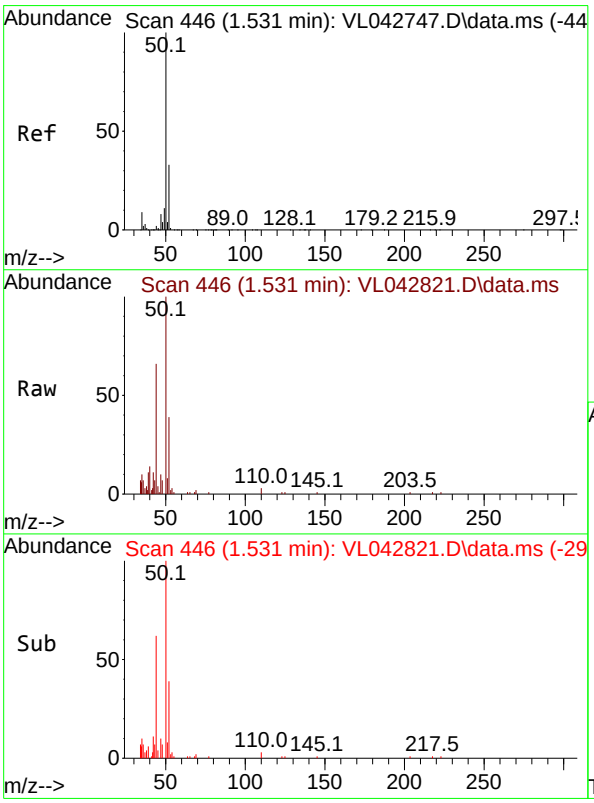
#3
Chlorodifluoromethane
Concen: 5.719 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion: 51 Resp: 145902

Ion	Ratio	Lower	Upper
51	100		
67	19.2	15.0	22.6

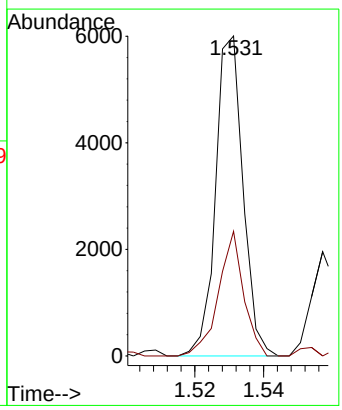


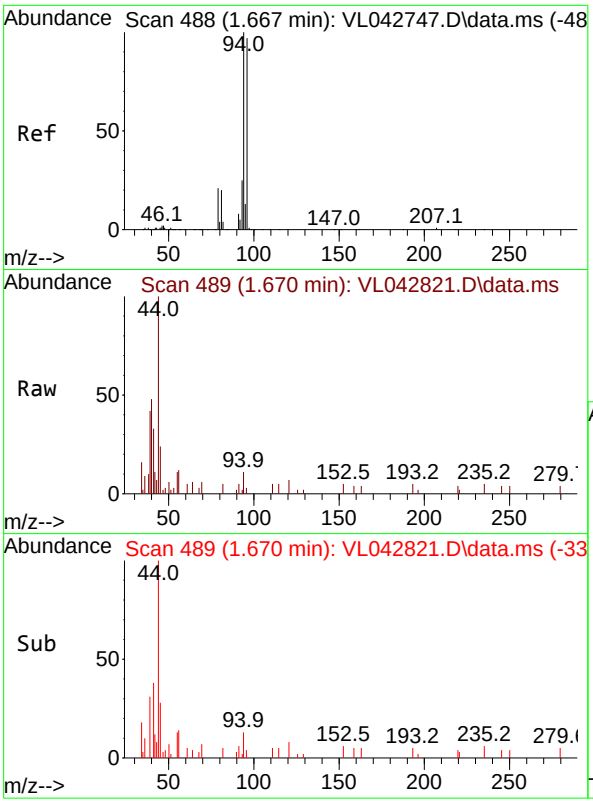


#4
Chloromethane
Concen: 0.419 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 50 Resp: 3318

Ion	Ratio	Lower	Upper
50	100		
52	39.0	26.6	40.0



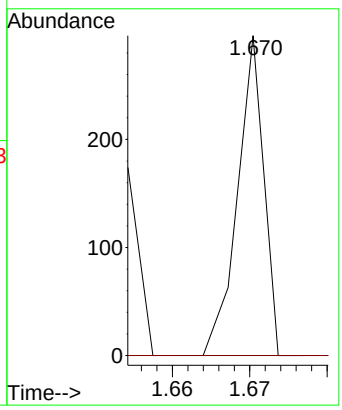


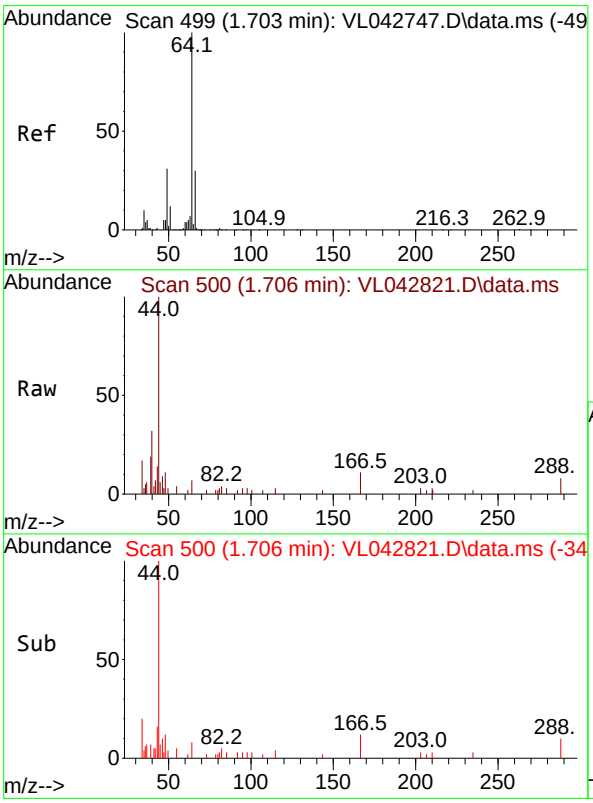
#6
Bromomethane
Concen: 0.023 ppbv
RT: 1.670 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion: 94 Resp: 70

Ion	Ratio	Lower	Upper
94	100		
96	0.0	77.6	116.4#

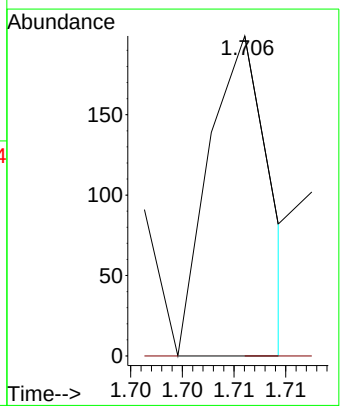


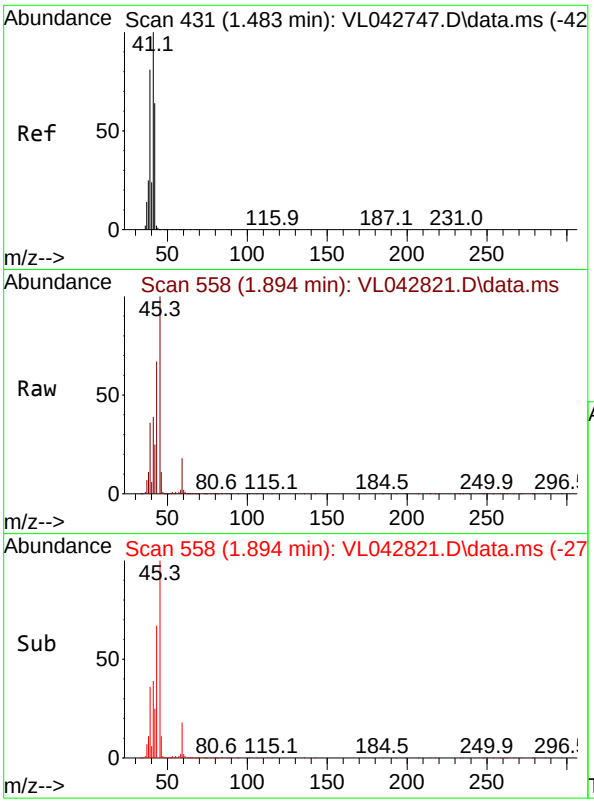


#7
Chloroethane
Concen: 0.027 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 64 Resp: 81

Ion	Ratio	Lower	Upper
64	100		
66	0.0	24.1	36.1#



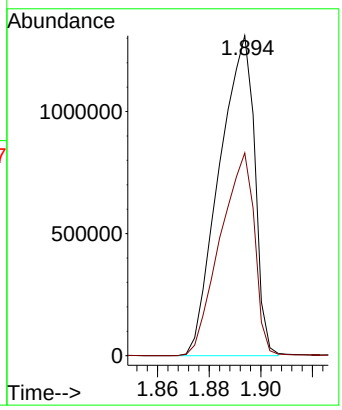


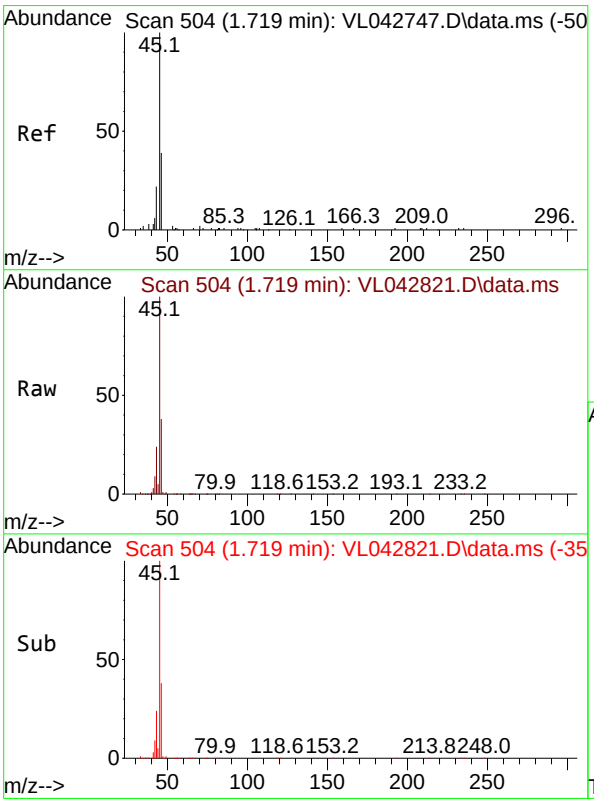
#9
Propene
Concen: 134.292 ppbv
RT: 1.894 min Scan# 5
Delta R.T. 0.411 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion: 41 Resp: 1245082

Ion	Ratio	Lower	Upper
41	100		
42	62.0	53.2	79.8

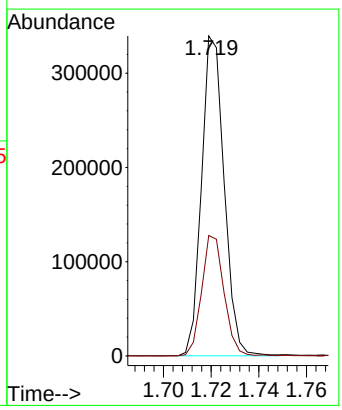


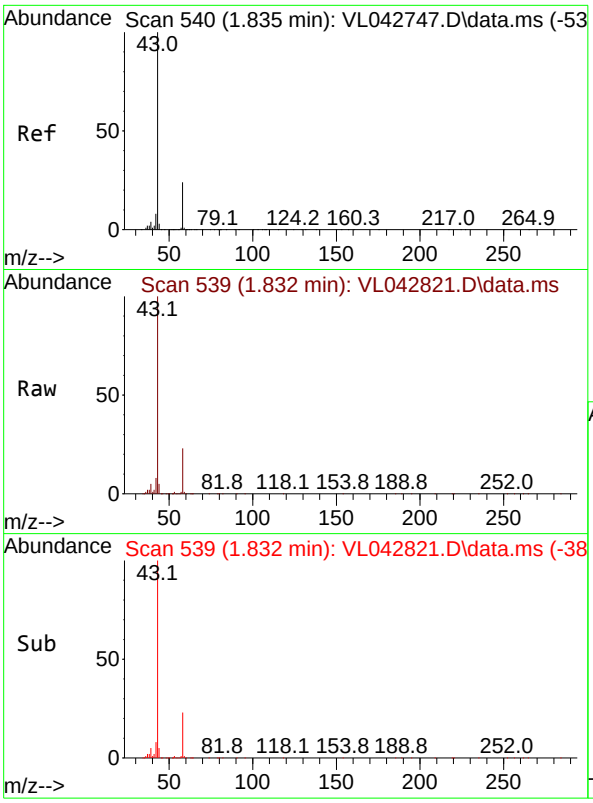


#13
Ethanol
Concen: 330.517 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 45 Resp: 223904

Ion	Ratio	Lower	Upper
45	100		
46	37.8	17.8	71.4



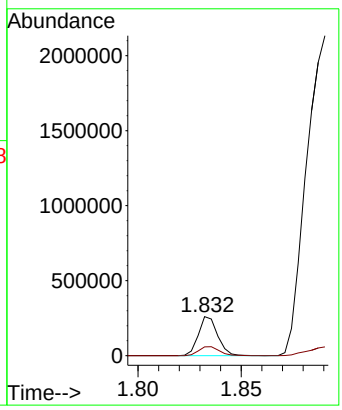


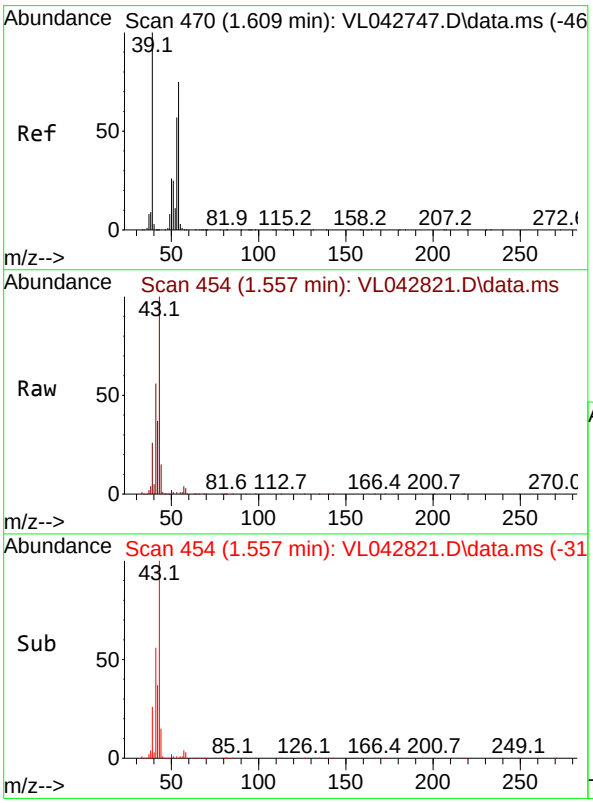
#15
Acetone
Concen: 8.215 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion: 43 Resp: 168012

Ion	Ratio	Lower	Upper
43	100		
58	25.3	19.8	29.8

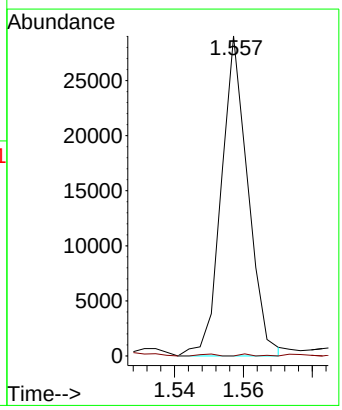


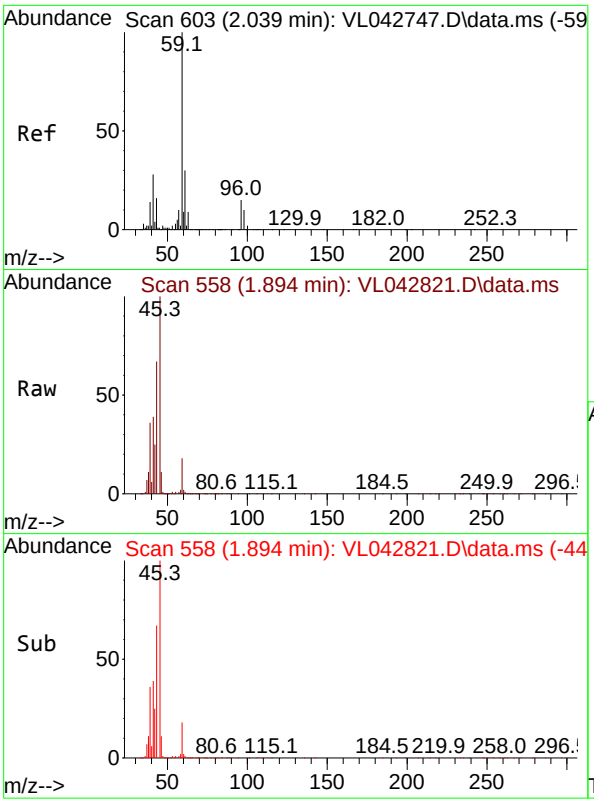


#16
1,3-Butadiene
Concen: 1.787 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.052 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 39 Resp: 15587

Ion	Ratio	Lower	Upper
39	100		
54	1.3	54.5	81.7#



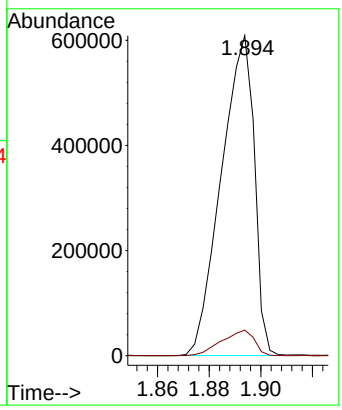


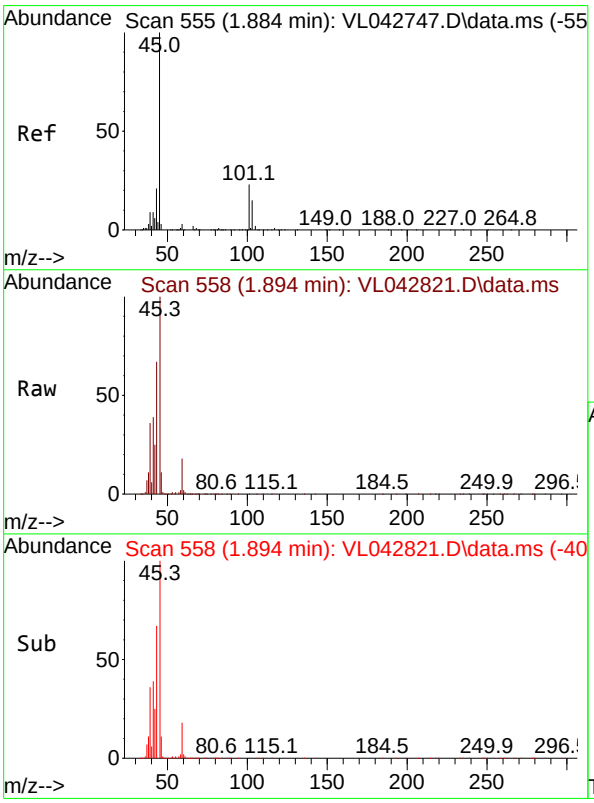
#17
tert-Butyl alcohol
Concen: 29.300 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.146 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion: 59 Resp: 540458

Ion	Ratio	Lower	Upper
59	100		
57	8.0	8.3	12.5#

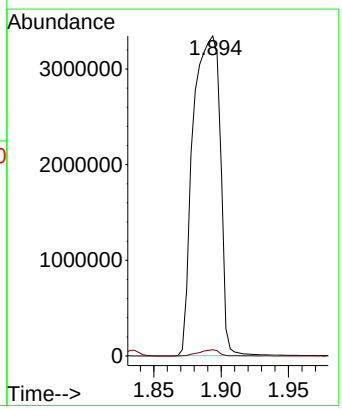


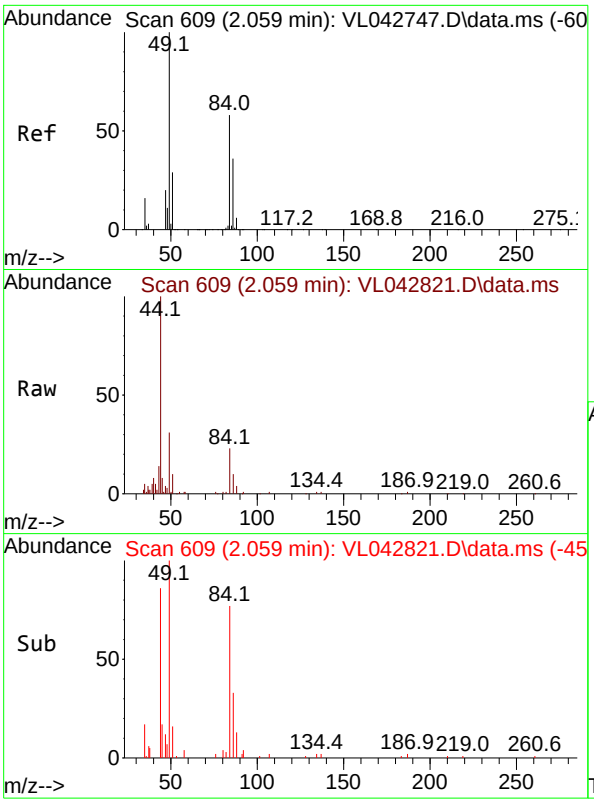


#19
Isopropyl Alcohol
Concen: 429.964 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.010 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 45 Resp: 4673053

Ion	Ratio	Lower	Upper
45	100		
58	1.5	30.0	45.0#



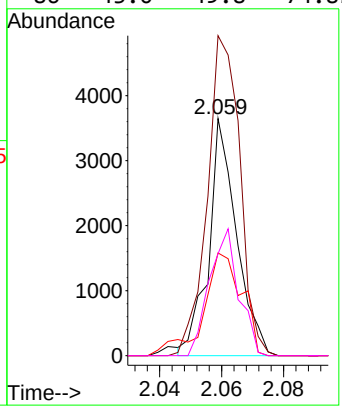


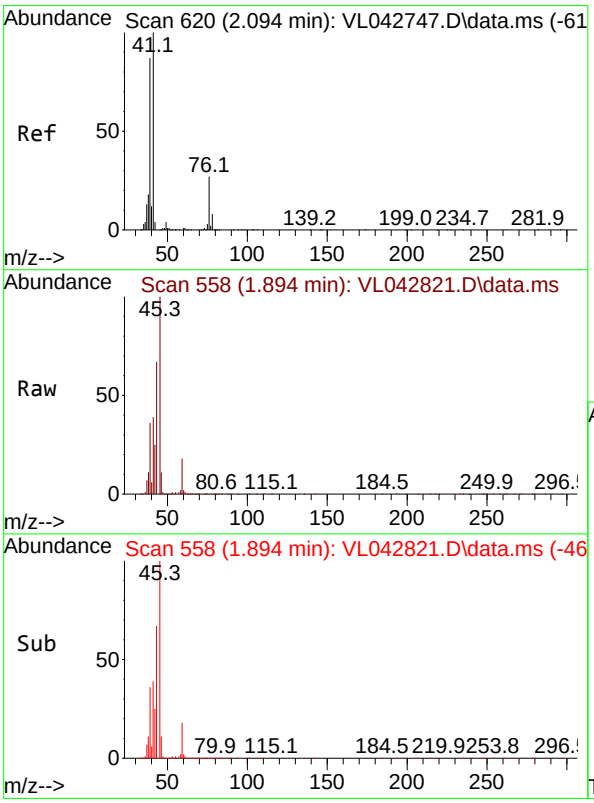
#20
Methylene Chloride
Concen: 0.353 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion: 84 Resp: 2276

Ion	Ratio	Lower	Upper
84	100		
49	134.9	138.6	208.0#
51	43.3	40.6	61.0
86	43.0	49.8	74.8#

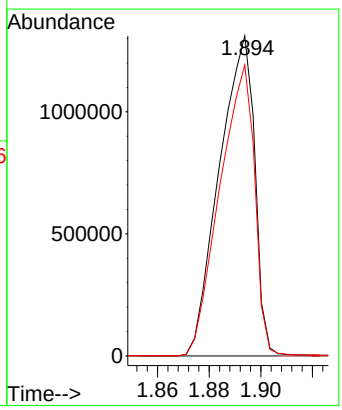


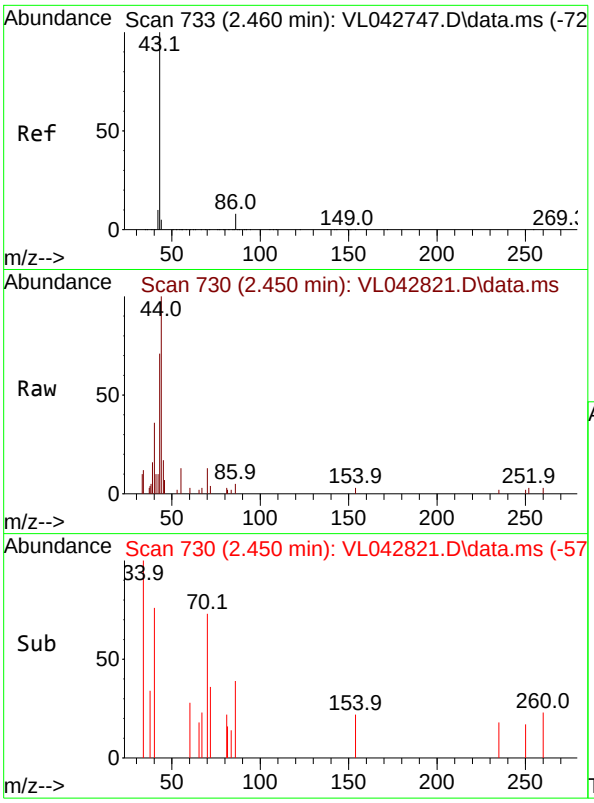


#21
Allyl Chloride
Concen: 98.777 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.201 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 41 Resp: 1245082

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.1	31.7#
39	89.7	68.3	102.5



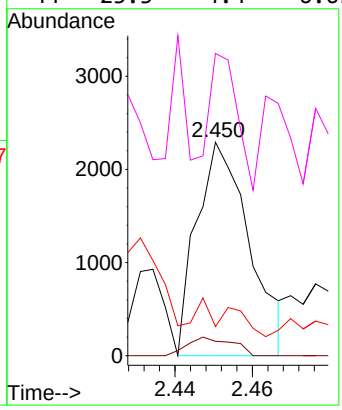


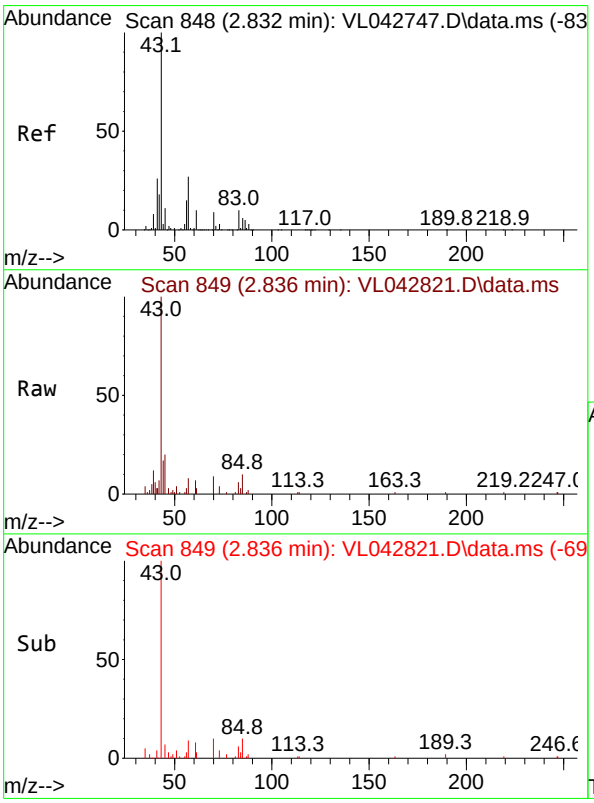
#23
Vinyl Acetate
Concen: 0.087 ppbv
RT: 2.450 min Scan# 7
Delta R.T. -0.010 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion: 43 Resp: 2169

Ion	Ratio	Lower	Upper
43	100		
86	6.7	6.1	9.1
42	1.8	7.8	11.8#
44	23.3	4.4	6.6#

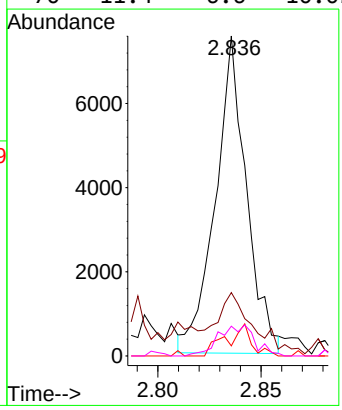


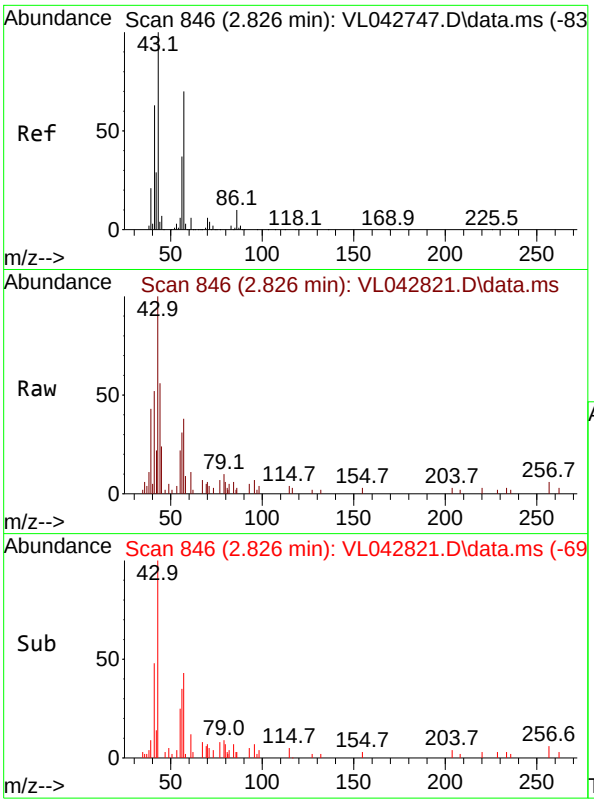


#25
Ethyl Acetate
Concen: 0.174 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 43 Resp: 7864

Ion	Ratio	Lower	Upper
43	100		
45	37.6	7.8	11.6#
61	8.9	6.7	10.1
70	11.4	6.6	10.0#



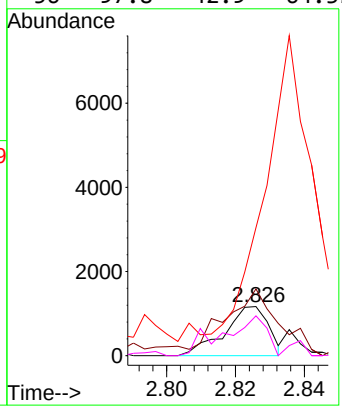


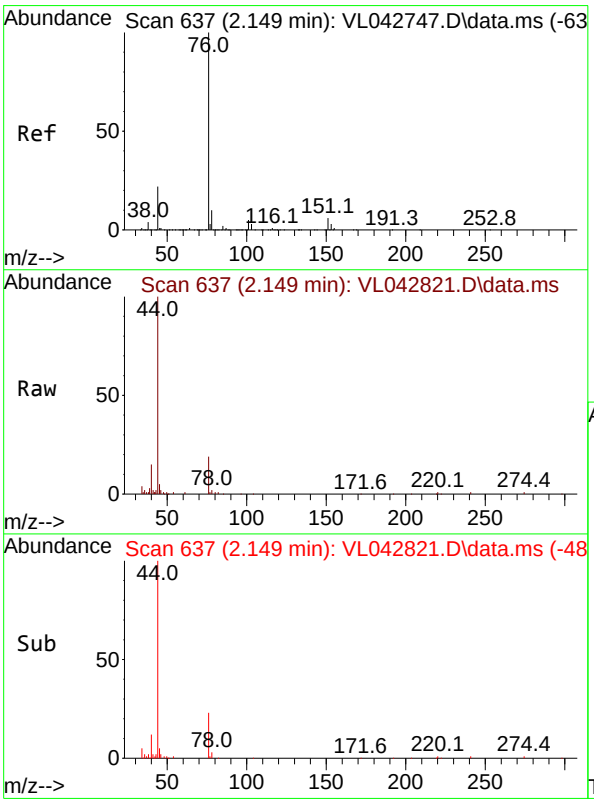
#26
Hexane
Concen: 0.052 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion: 57 Resp: 1040

Ion	Ratio	Lower	Upper
57	100		
41	226.2	75.4	113.2#
43	0.0	185.0	277.6#
56	97.8	42.9	64.3#

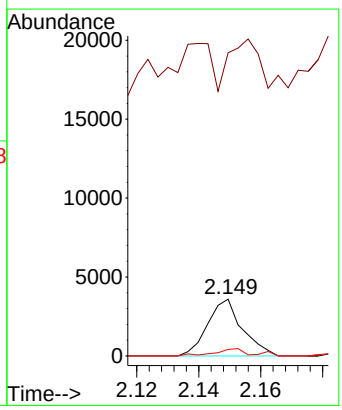


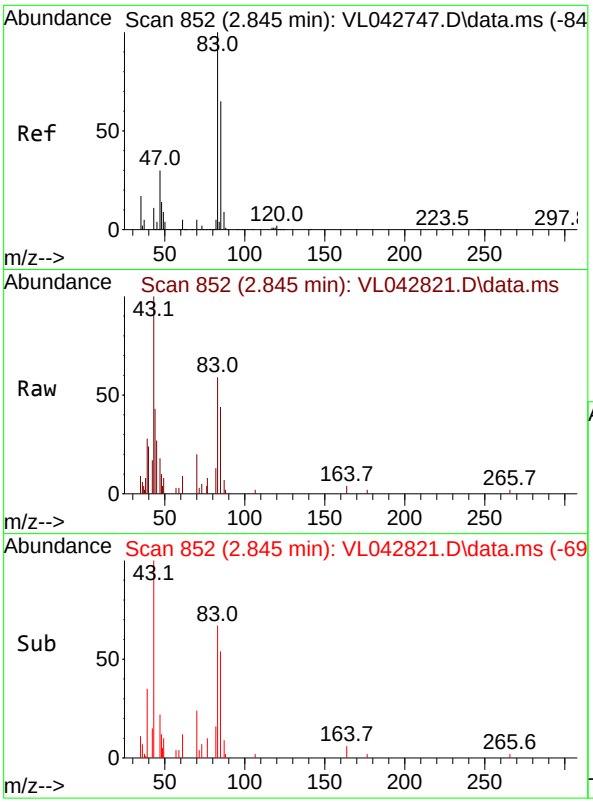


#27
Carbon Disulfide
Concen: 0.165 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 76 Resp: 2798

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	15.0	9.9	14.9#



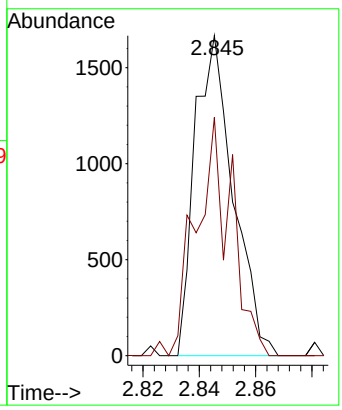


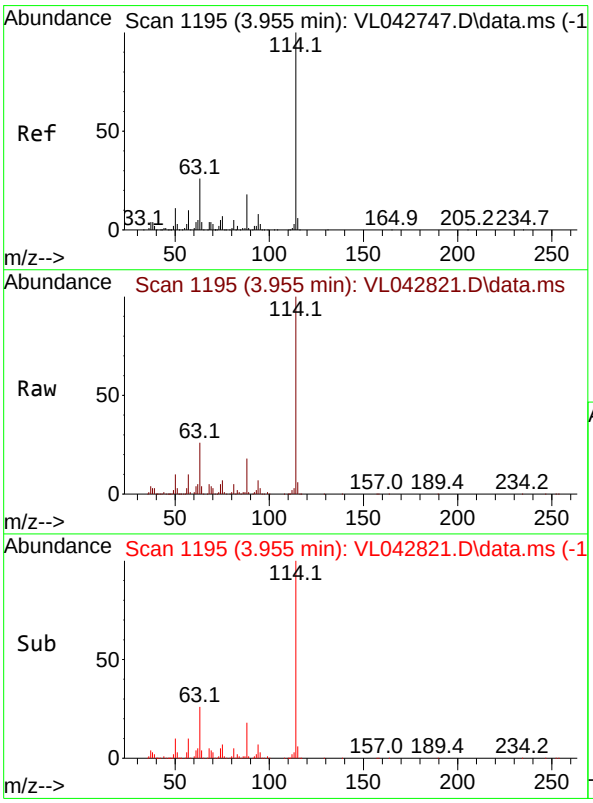
#29
Chloroform
Concen: 0.052 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion: 83 Resp: 1581

Ion	Ratio	Lower	Upper
83	100		
85	74.4	52.2	78.2

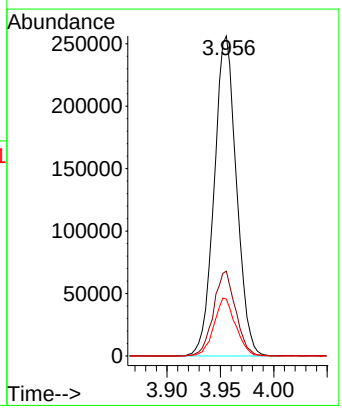


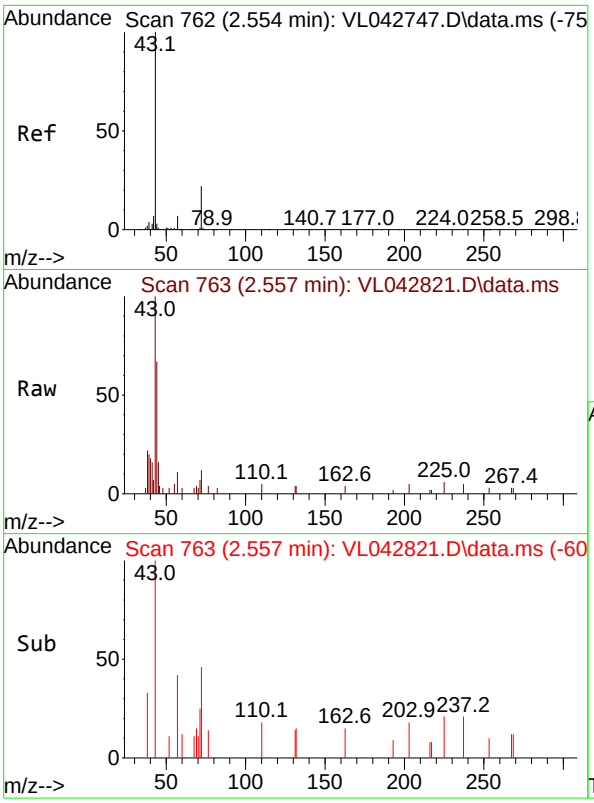


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion:114 Resp: 371352

Ion	Ratio	Lower	Upper
114	100		
63	26.4	20.5	30.7
88	17.6	14.0	21.0



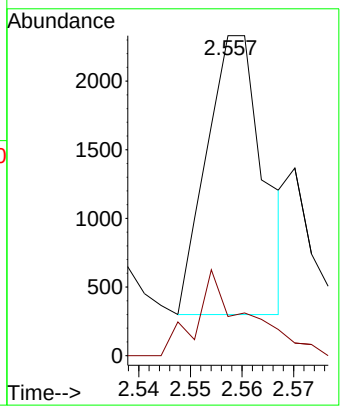


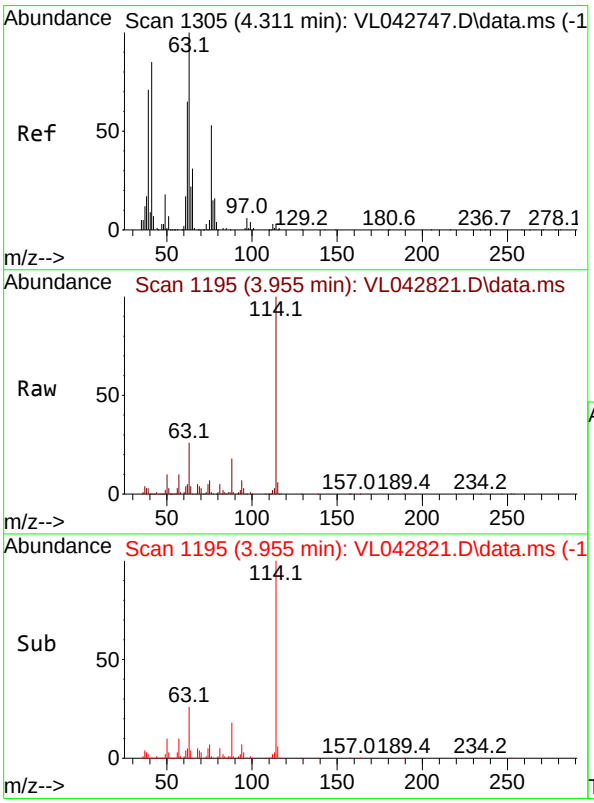
#34
2-Butanone
Concen: 0.059 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion: 43 Resp: 1559

Ion	Ratio	Lower	Upper
43	100		
72	31.2	17.4	26.0#

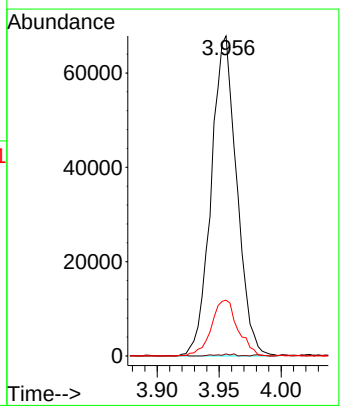


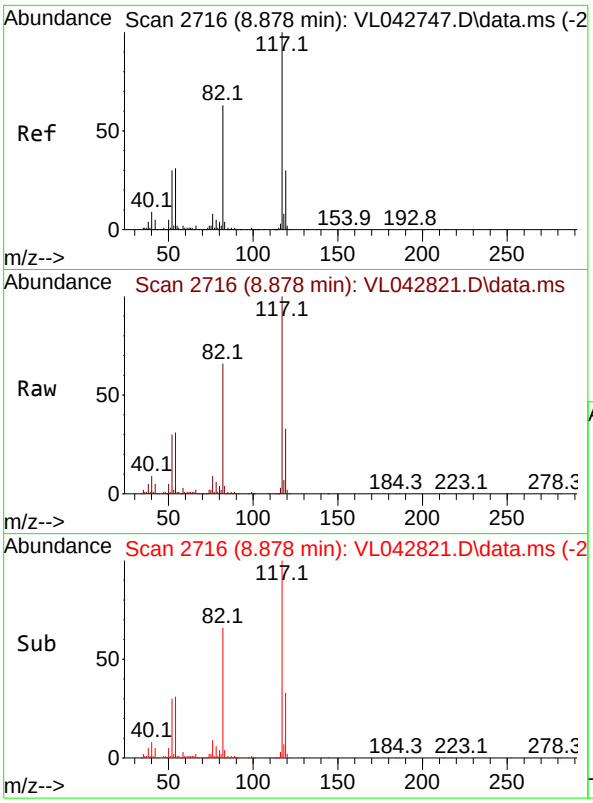


#39
1,2-Dichloropropane
Concen: 7.519 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 63 Resp: 97685

Ion	Ratio	Lower	Upper
63	100		
41	0.6	68.2	102.4#
62	17.4	52.0	78.0#



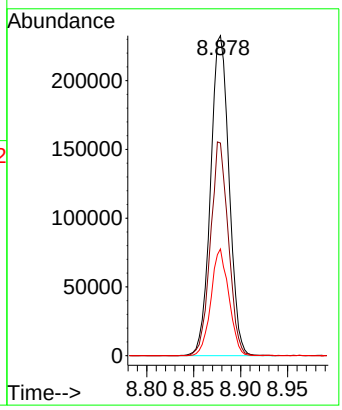


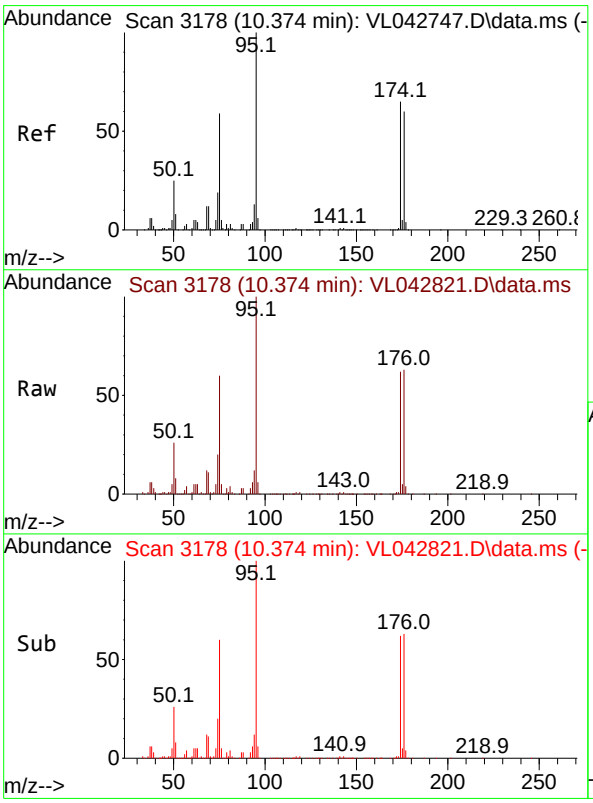
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion:117 Resp: 318755

Ion	Ratio	Lower	Upper
117	100		
82	64.6	53.3	79.9
119	32.2	25.8	38.6

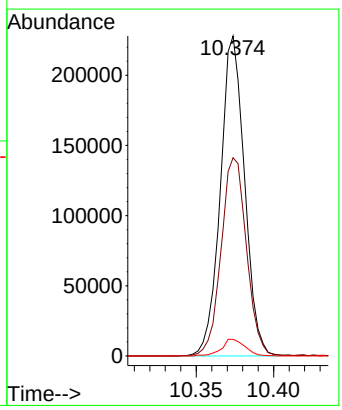


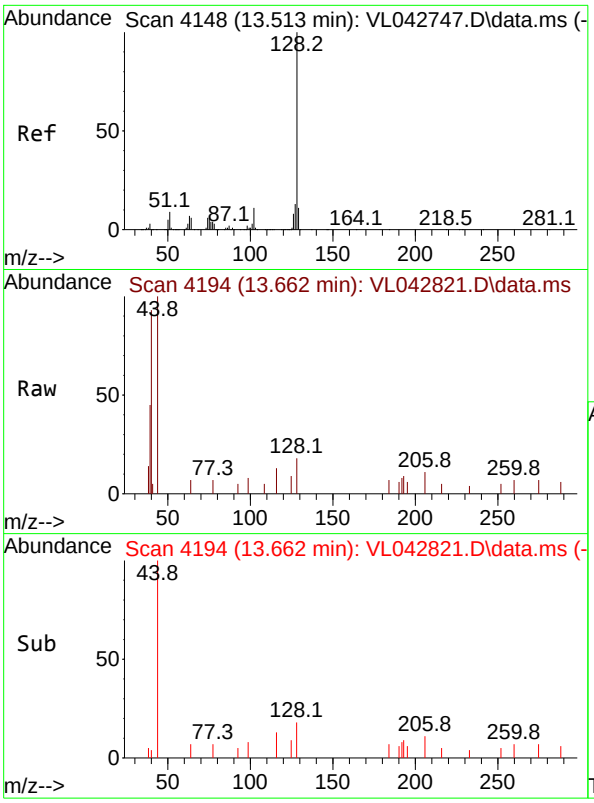


#68
1-Bromo-4-Fluorobenzene
Concen: 9.801 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 95 Resp: 247401

Ion	Ratio	Lower	Upper
95	100		
174	65.4	53.8	80.6
175	5.1	4.0	6.0



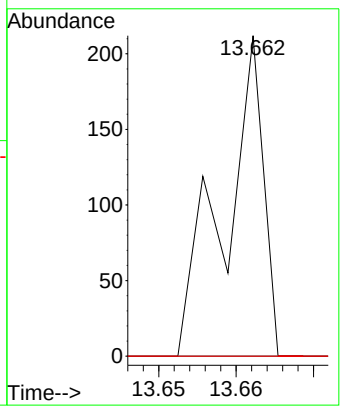


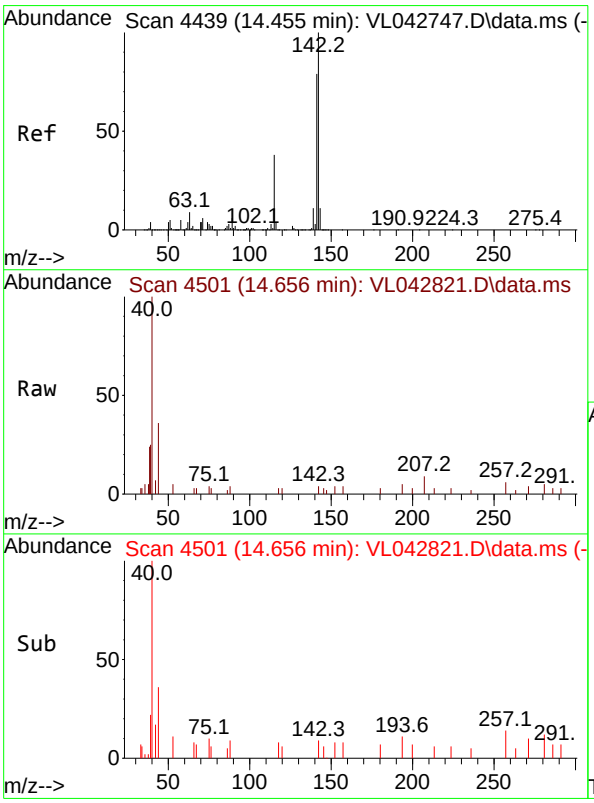
#79
Naphthalene
Concen: 0.437 ppbv
RT: 13.662 min Scan# 4
Delta R.T. 0.149 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion:128 Resp: 75

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	13.0#

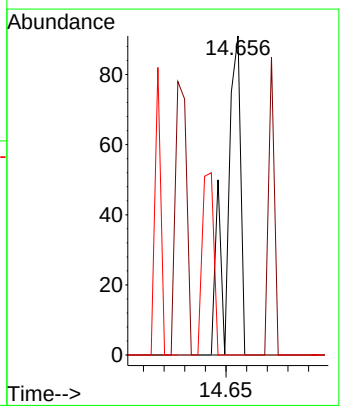


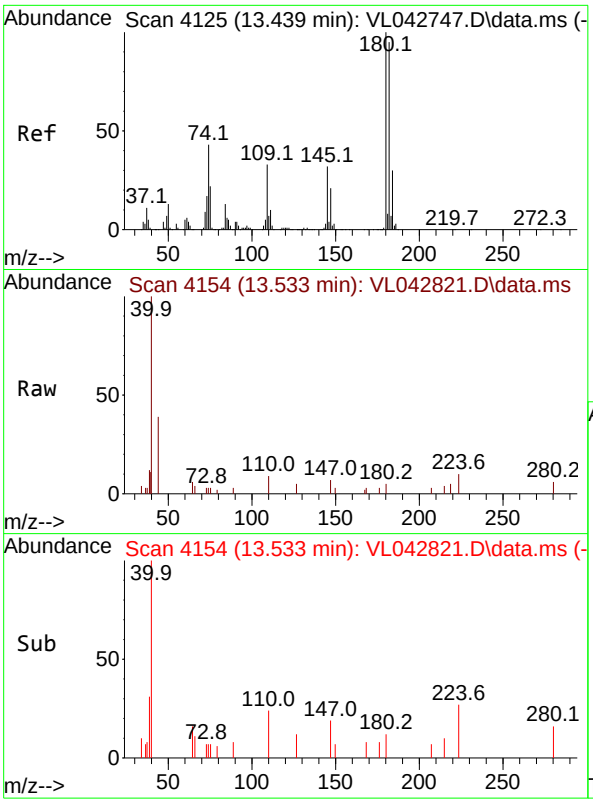


#80
Naphthalene,2-methyl-
Concen: 1.130 ppbv
RT: 14.656 min Scan# 4501
Delta R.T. 0.201 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion:142 Resp: 42

Ion	Ratio	Lower	Upper
142	100		
141	69.0	65.8	98.8
115	38.1	31.2	46.8



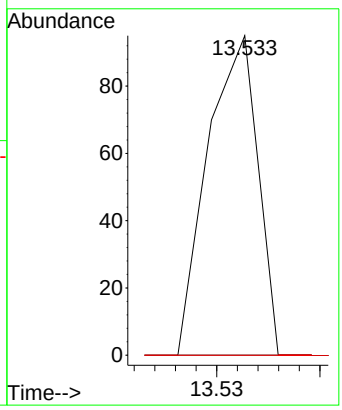


#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.533 min Scan# 4
Delta R.T. 0.094 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DL

Tgt Ion:180 Resp: 32

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	0.0	24.8	37.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042822.D
Acq On : 05 Aug 2025 00:45
Operator : SY/MD
Sample : Q2750-02DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Quant Time: Aug 05 03:20:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

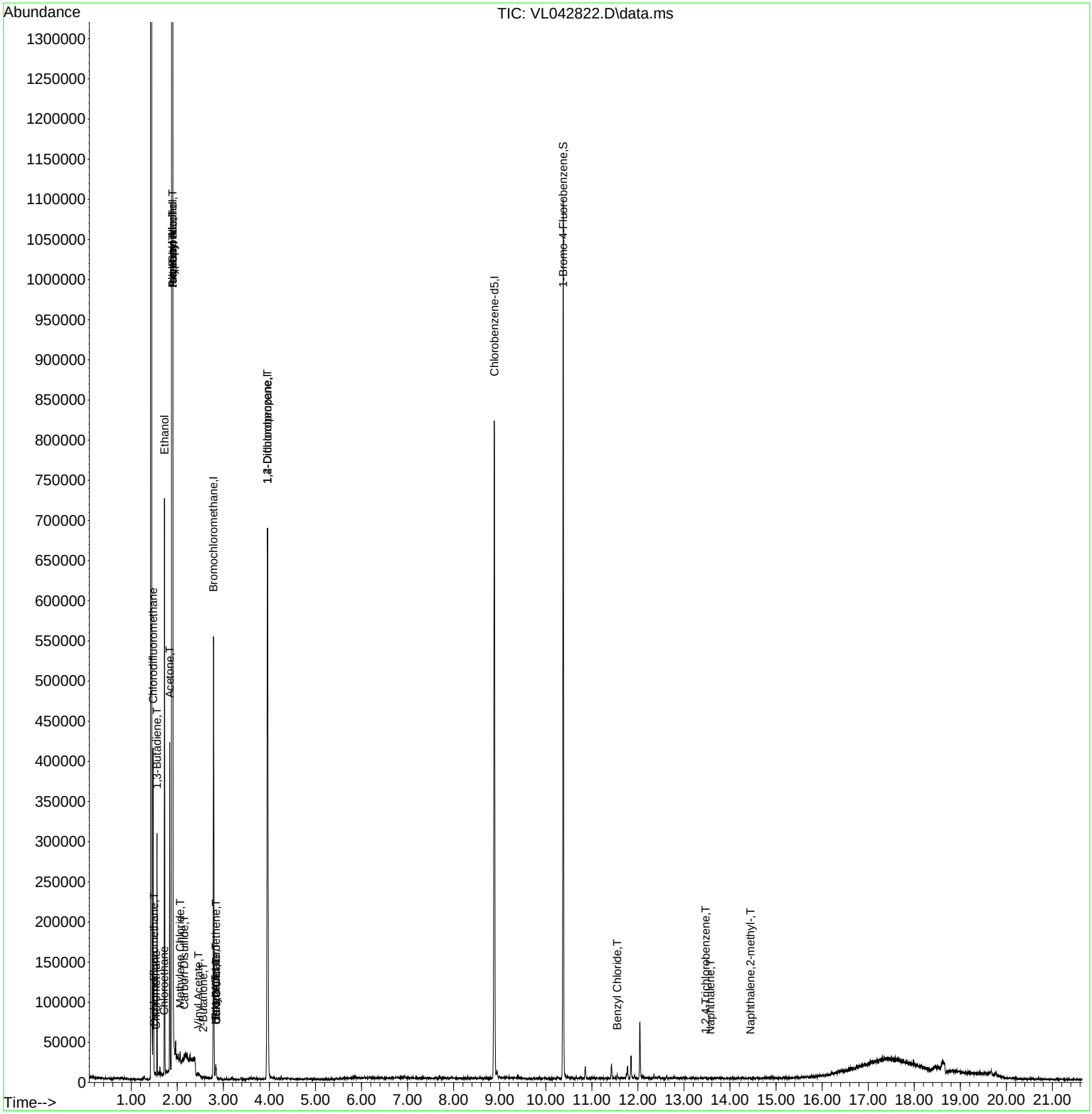
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	146942	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	366115	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	315576	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	245322	9.816	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	517	0.027	ppbv #	57
3) Chlorodifluoromethane	1.476	51	133315	5.268	ppbv	100
4) Chloromethane	1.535	50	542	0.069	ppbv #	72
7) Chloroethane	1.713	64	142	0.047	ppbv #	83
9) Propene	1.897	41	1321523	143.672	ppbv	94
13) Ethanol	1.722	45	247776	368.803	ppbv	89
15) Acetone	1.836	43	168914	8.325	ppbv	100
16) 1,3-Butadiene	1.561	39	16971	1.961	ppbv #	18
17) tert-Butyl alcohol	1.897	59	577897	31.579	ppbv #	94
19) Isopropyl Alcohol	1.897	45	4808998	445.998	ppbv #	40
20) Methylene Chloride	2.065	84	1787	0.279	ppbv #	83
21) Allyl Chloride	1.897	41	1321523	105.677	ppbv #	83
23) Vinyl Acetate	2.457	43	1086	0.044	ppbv #	16
25) Ethyl Acetate	2.836	43	8515	0.190	ppbv #	67
26) Hexane	2.829	57	1135	0.058	ppbv #	1
27) Carbon Disulfide	2.150	76	3077	0.182	ppbv #	66
29) Chloroform	2.845	83	660	0.022	ppbv #	51
31) cis-1,2-Dichloroethene	2.842	61	970	0.048	ppbv #	23
34) 2-Butanone	2.561	43	1052	0.041	ppbv	94
39) 1,2-Dichloropropane	3.959	63	96193	7.510	ppbv #	22
66) Benzyl Chloride	11.552	91	206	0.048	ppbv #	86
79) Naphthalene	13.572	128	64	0.436	ppbv #	69
80) Naphthalene,2-methyl-	14.446	142	45	1.130	ppbv #	17
81) 1,2,4-Trichlorobenzene	13.471	180	28	0.436	ppbv #	1

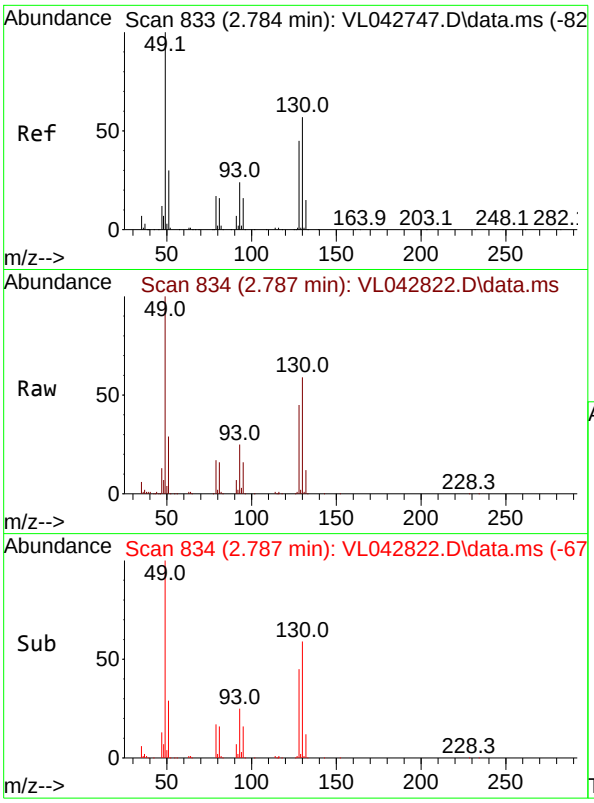
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042822.D
Acq On : 05 Aug 2025 00:45
Operator : SY/MD
Sample : Q2750-02DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Quant Time: Aug 05 03:20:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



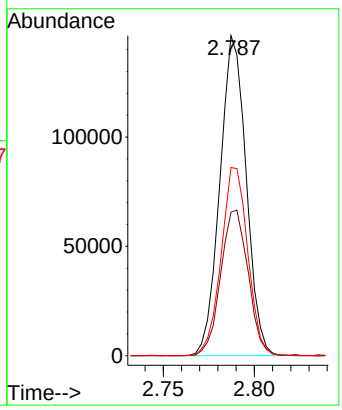


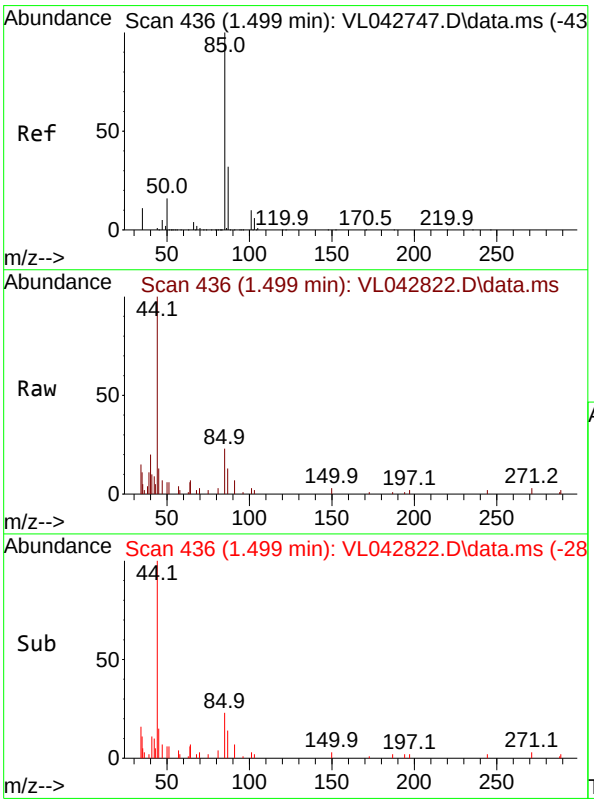
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion: 49 Resp: 146942

Ion	Ratio	Lower	Upper
49	100		
128	47.5	23.6	71.0
130	59.6	30.3	90.8

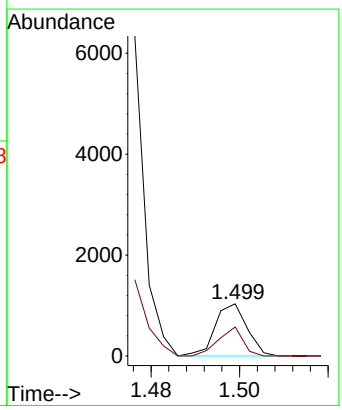


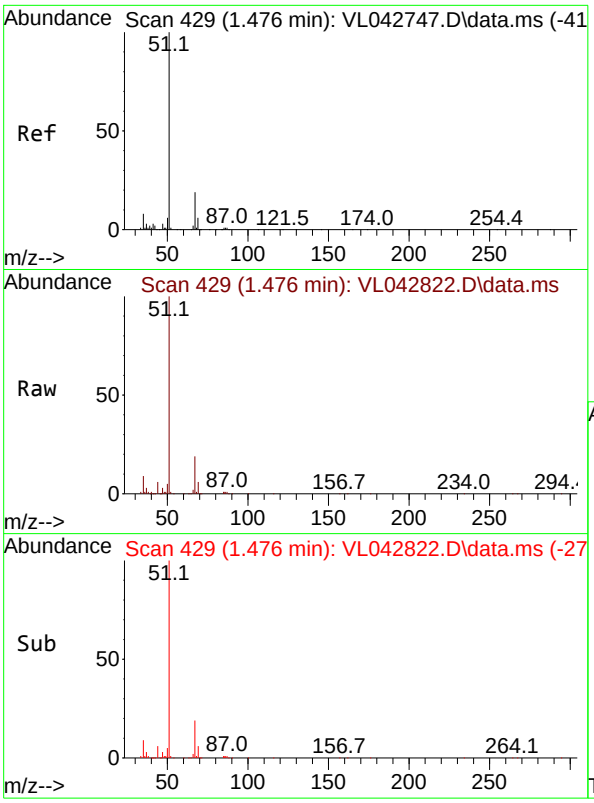


#2
Dichlorodifluoromethane
Concen: 0.027 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 85 Resp: 517

Ion	Ratio	Lower	Upper
85	100		
87	55.7	25.4	38.2#



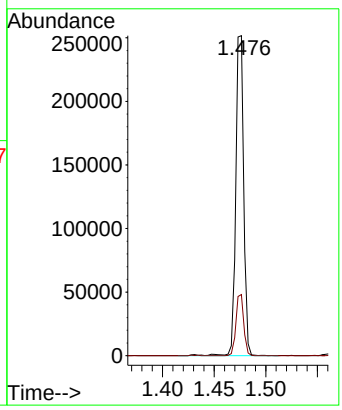


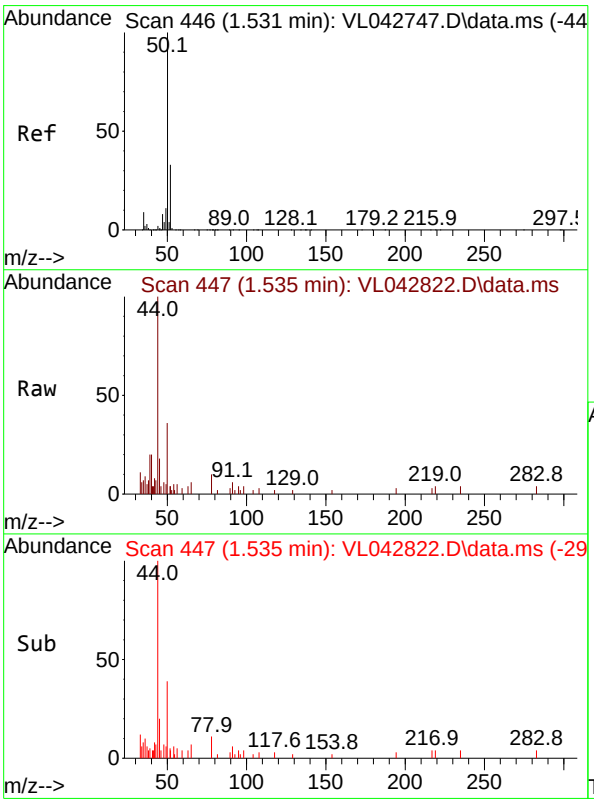
#3
Chlorodifluoromethane
Concen: 5.268 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion: 51 Resp: 133315

Ion	Ratio	Lower	Upper
51	100		
67	18.9	15.0	22.6

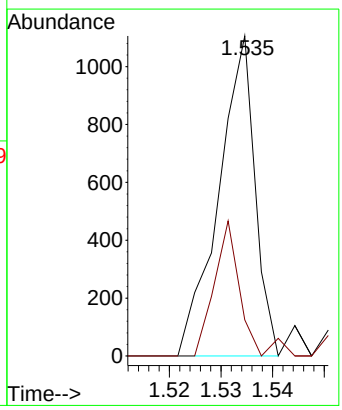


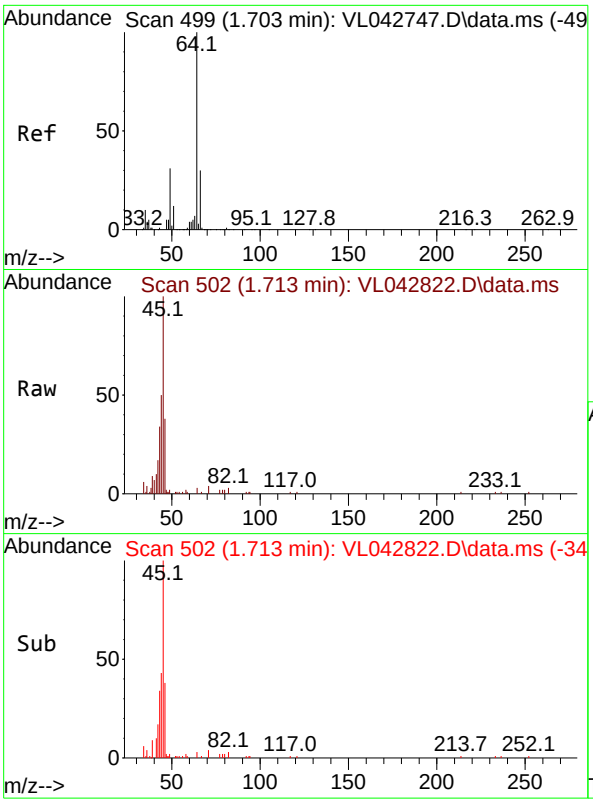


#4
Chloromethane
Concen: 0.069 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 50 Resp: 542

Ion	Ratio	Lower	Upper
50	100		
52	17.4	26.6	40.0#



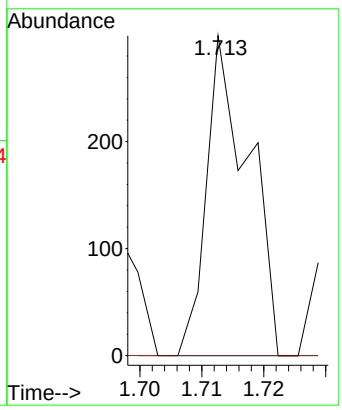


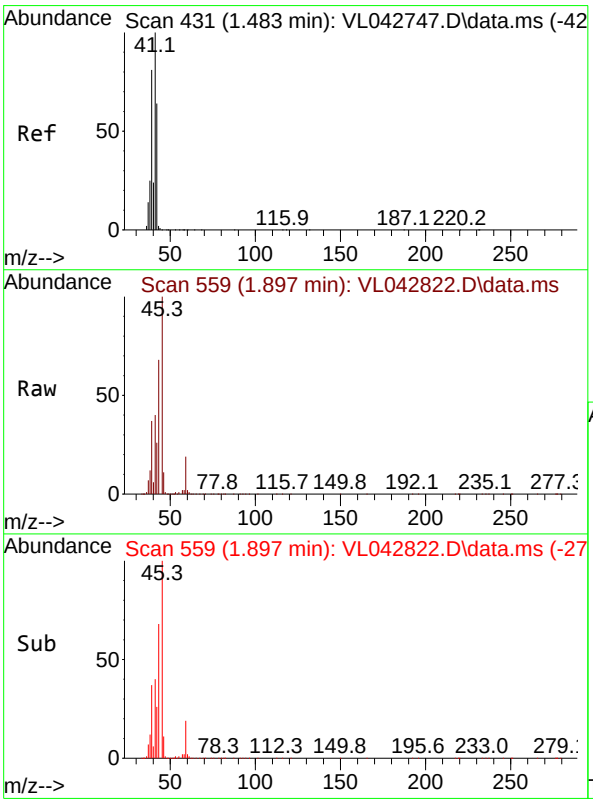
#7
Chloroethane
Concen: 0.047 ppbv
RT: 1.713 min Scan# 5
Delta R.T. 0.010 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion: 64 Resp: 142

Ion	Ratio	Lower	Upper
64	100		
66	21.1	24.1	36.1#

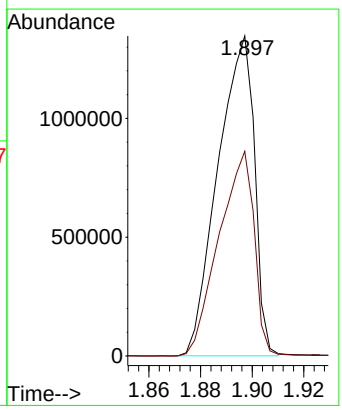


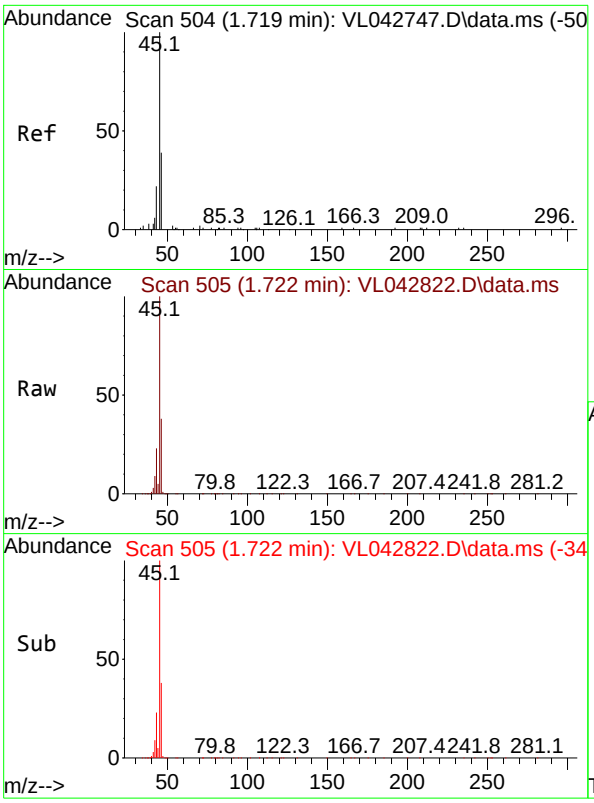


#9
Propene
Concen: 143.672 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.414 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 41 Resp: 1321523

Ion	Ratio	Lower	Upper
41	100		
42	62.0	53.2	79.8



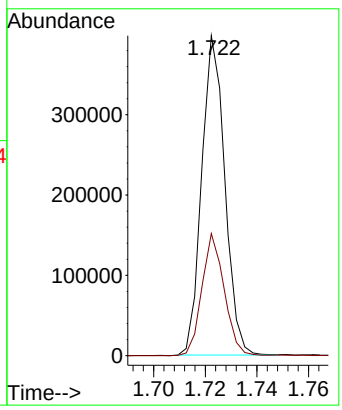


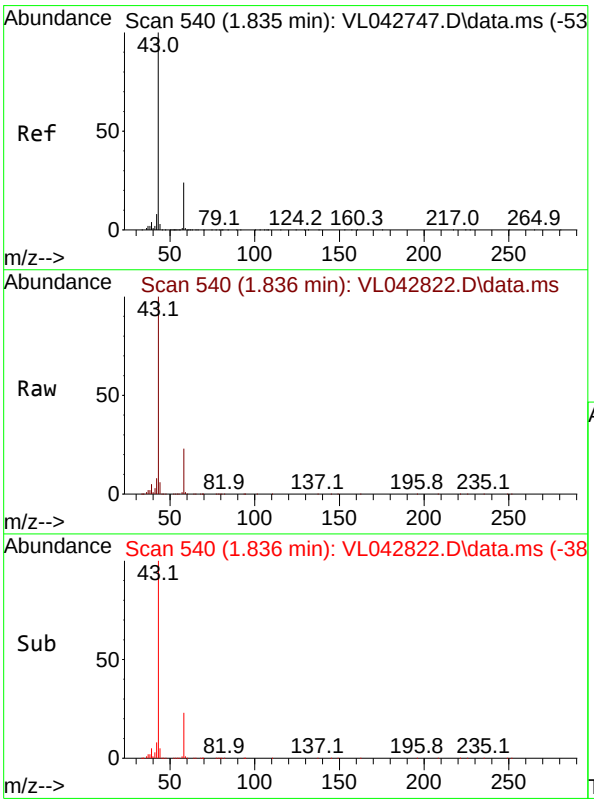
#13
Ethanol
Concen: 368.803 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion: 45 Resp: 247776

Ion	Ratio	Lower	Upper
45	100		
46	37.4	17.8	71.4

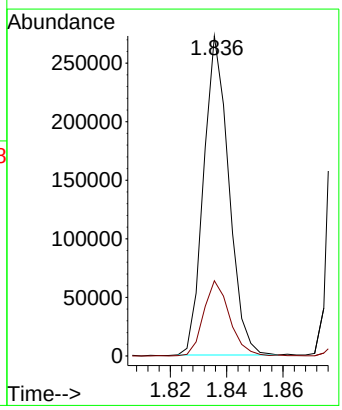


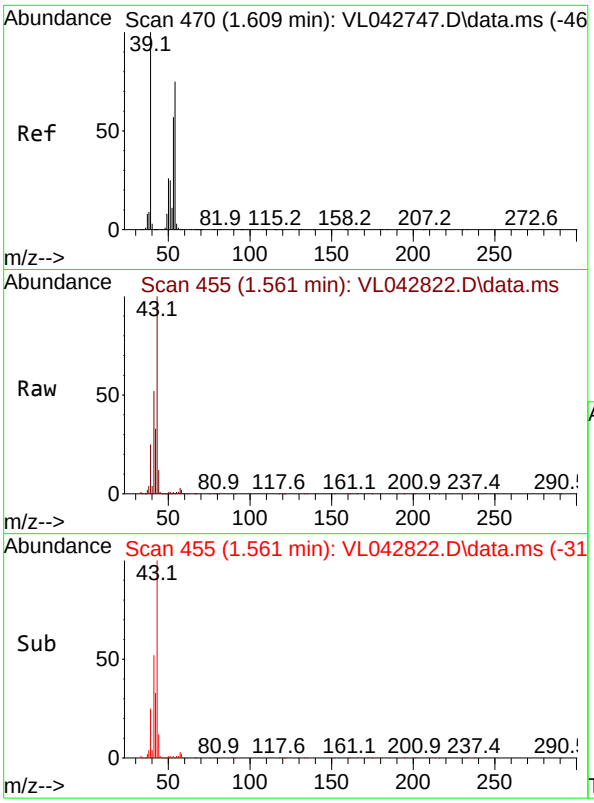


#15
Acetone
Concen: 8.325 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 43 Resp: 168914

Ion	Ratio	Lower	Upper
43	100		
58	24.6	19.8	29.8



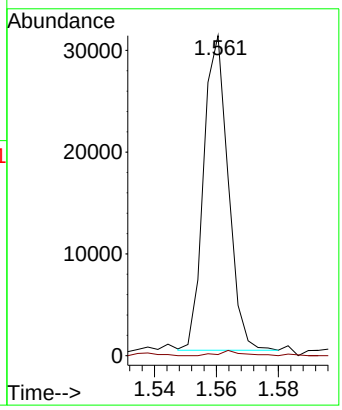


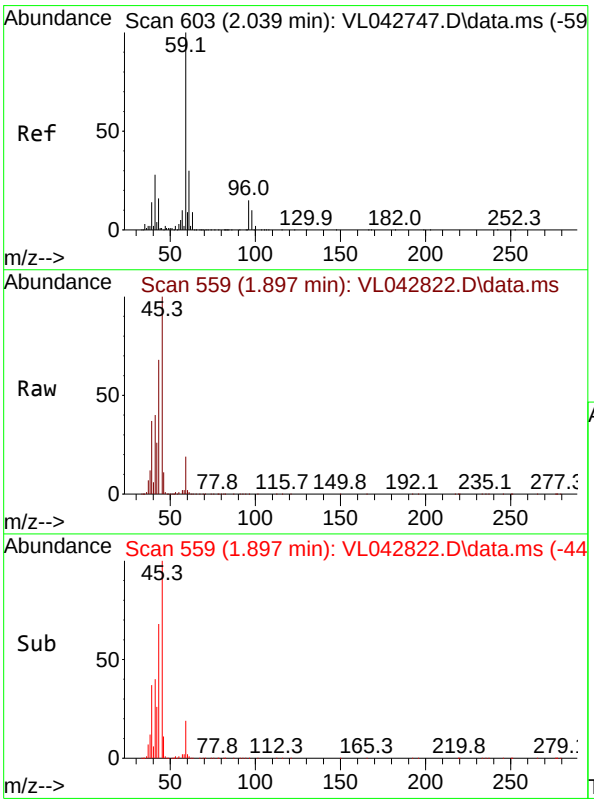
#16
1,3-Butadiene
Concen: 1.961 ppbv
RT: 1.561 min Scan# 4
Delta R.T. -0.048 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion: 39 Resp: 16971

Ion	Ratio	Lower	Upper
39	100		
54	1.9	54.5	81.7#

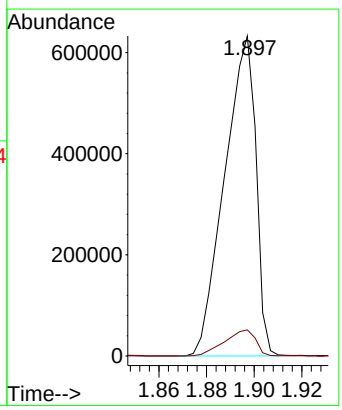


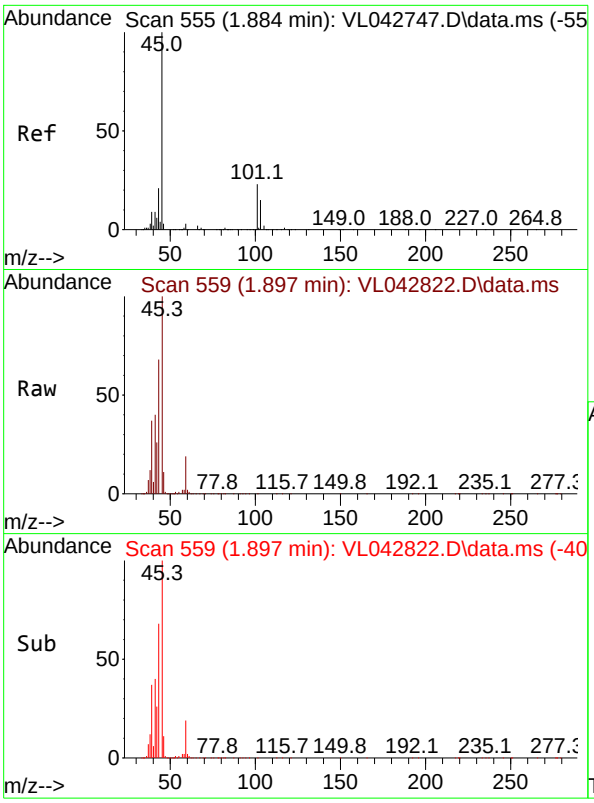


#17
tert-Butyl alcohol
Concen: 31.579 ppbv
RT: 1.897 min Scan# 559
Delta R.T. -0.142 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 59 Resp: 577897

Ion	Ratio	Lower	Upper
59	100		
57	8.2	8.3	12.5#



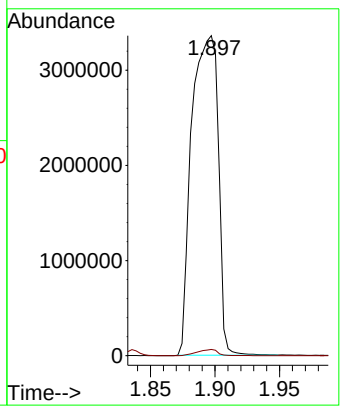


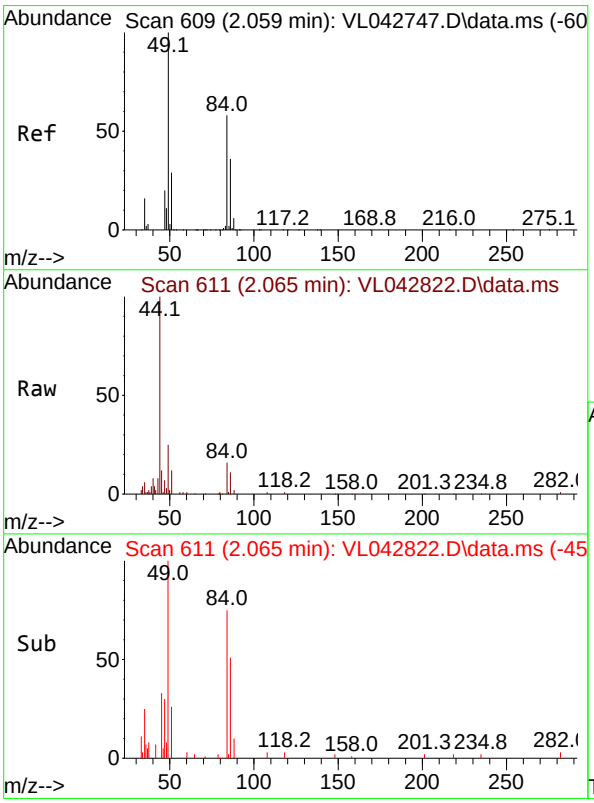
#19
Isopropyl Alcohol
Concen: 445.998 ppbv
RT: 1.897 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion: 45 Resp: 4808998

Ion	Ratio	Lower	Upper
45	100		
58	1.5	30.0	45.0#

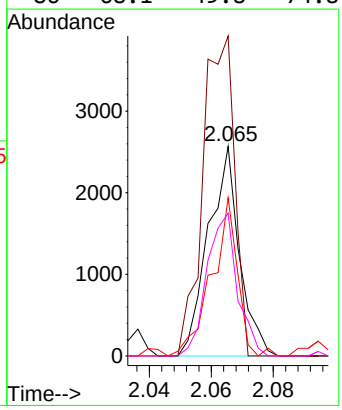


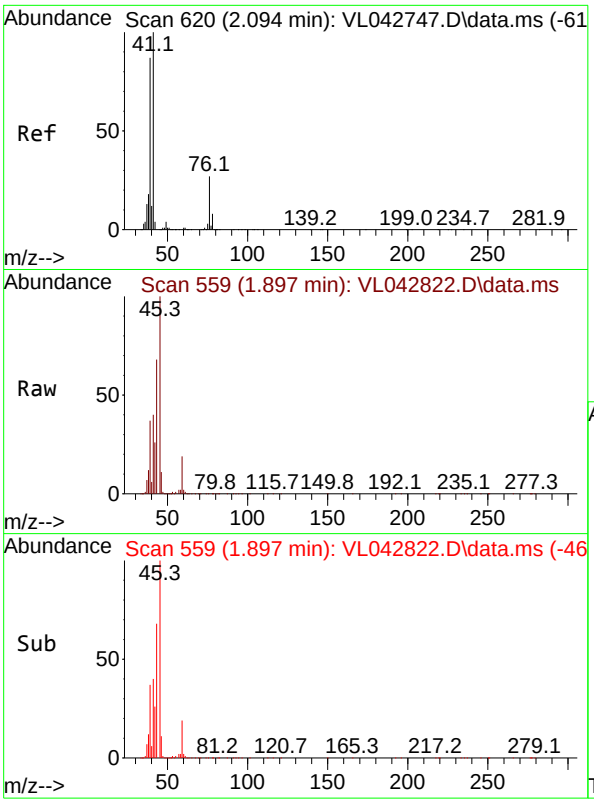


#20
Methylene Chloride
Concen: 0.279 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 84 Resp: 1787

Ion	Ratio	Lower	Upper
84	100		
49	152.7	138.6	208.0
51	75.5	40.6	61.0#
86	68.1	49.8	74.8



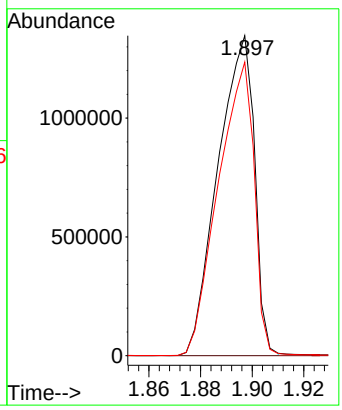


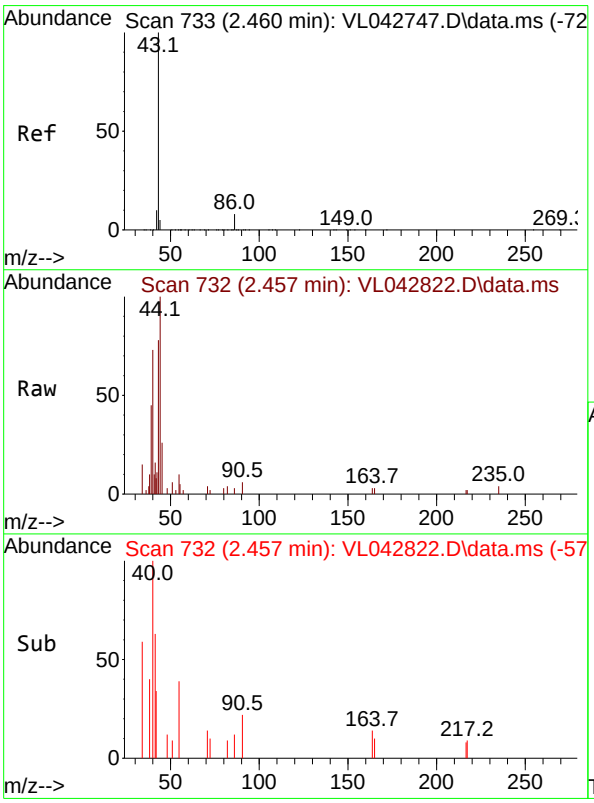
#21
Allyl Chloride
Concen: 105.677 ppbv
RT: 1.897 min Scan# 5
Delta R.T. -0.197 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion: 41 Resp: 1321523

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.1	31.7#
39	90.6	68.3	102.5

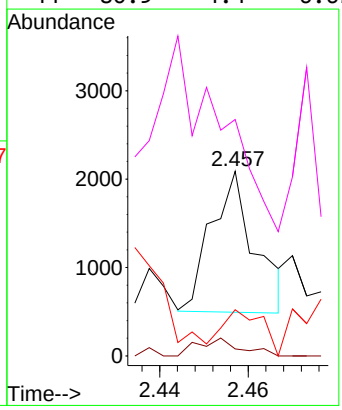


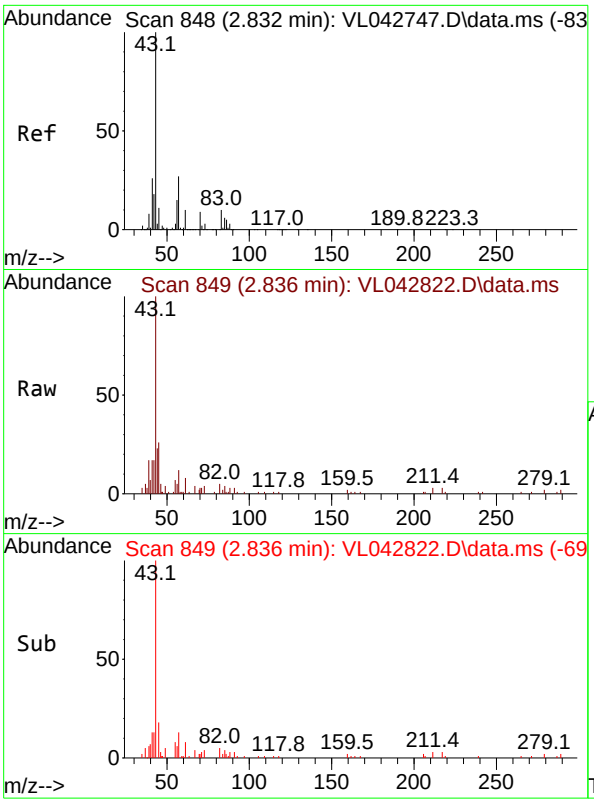


#23
Vinyl Acetate
Concen: 0.044 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 43 Resp: 1086

Ion	Ratio	Lower	Upper
43	100		
86	5.0	6.1	9.1#
42	33.4	7.8	11.8#
44	80.9	4.4	6.6#



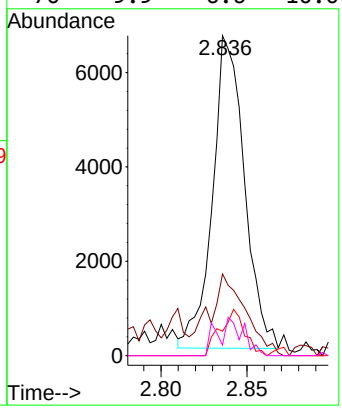


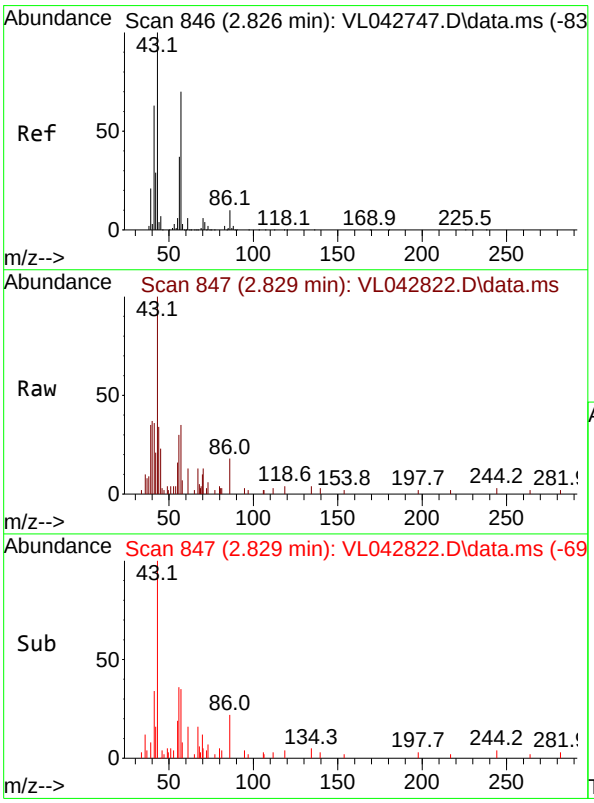
#25
Ethyl Acetate
Concen: 0.190 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion: 43 Resp: 8515

Ion	Ratio	Lower	Upper
43	100		
45	37.7	7.8	11.6#
61	12.3	6.7	10.1#
70	9.9	6.6	10.0

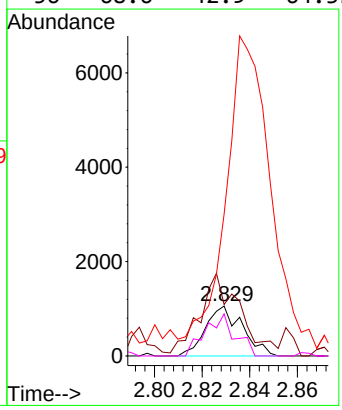


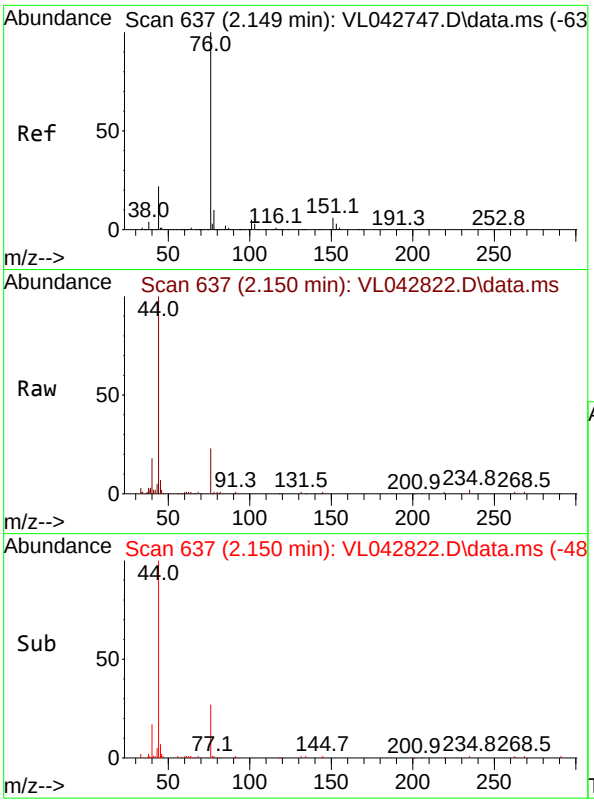


#26
Hexane
Concen: 0.058 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 57 Resp: 1135

Ion	Ratio	Lower	Upper
57	100		
41	226.0	75.4	113.2#
43	793.9	185.0	277.6#
56	68.6	42.9	64.3#



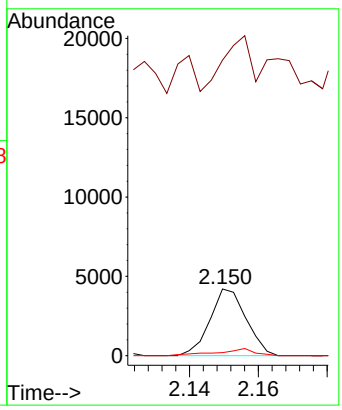


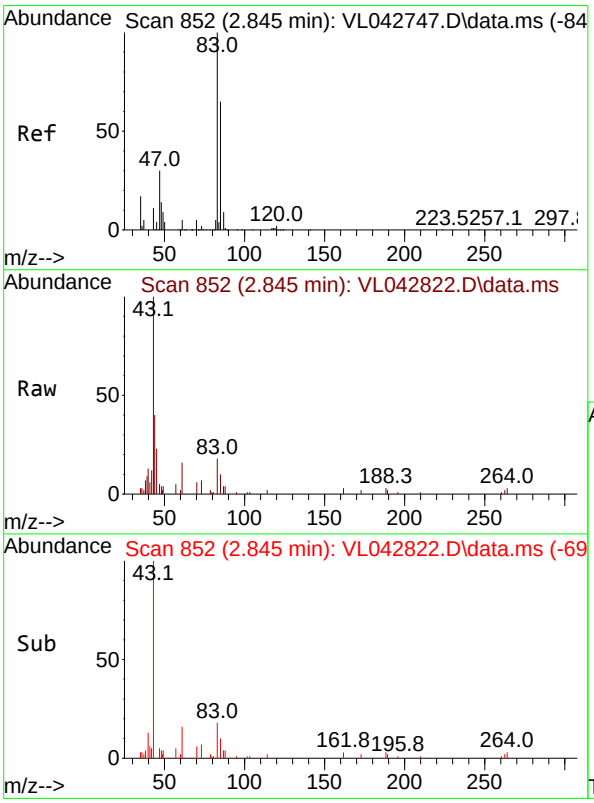
#27
Carbon Disulfide
Concen: 0.182 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion: 76 Resp: 3077

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	10.8	9.9	14.9

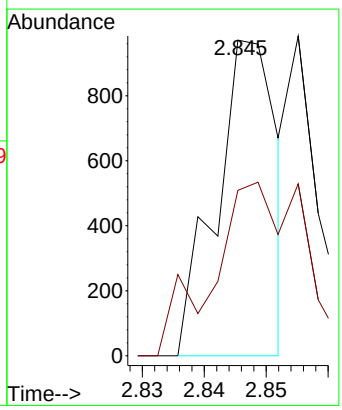


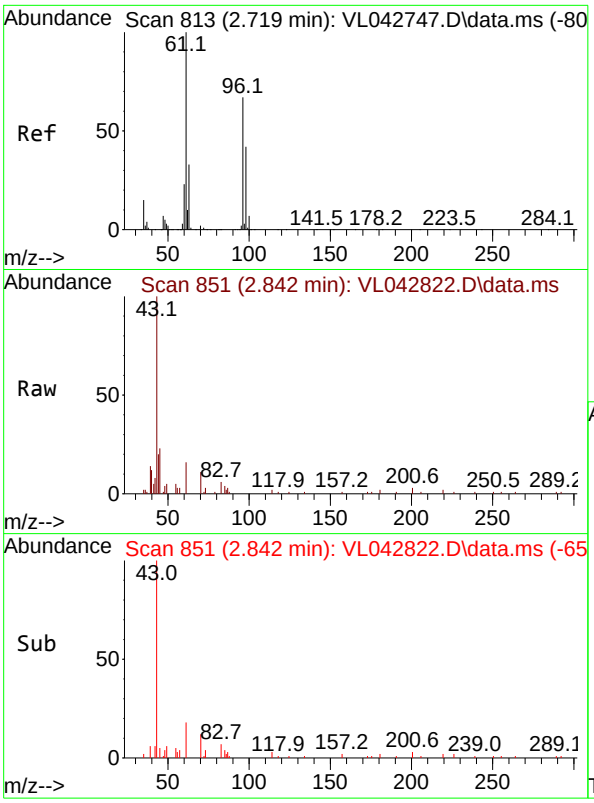


#29
Chloroform
Concen: 0.022 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.000 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 83 Resp: 660

Ion	Ratio	Lower	Upper
83	100		
85	26.7	52.2	78.2#



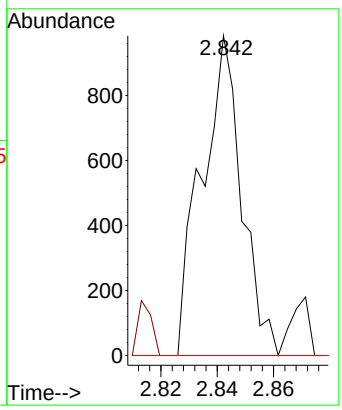


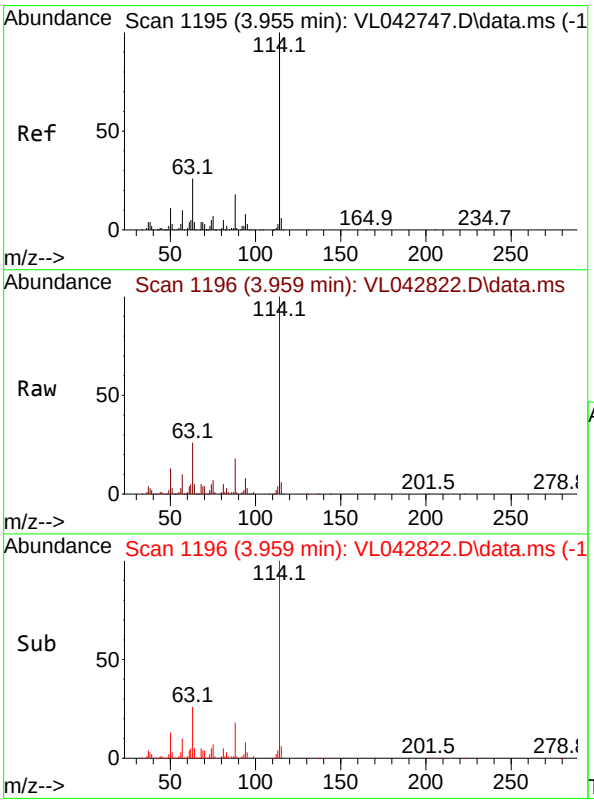
#31
cis-1,2-Dichloroethene
Concen: 0.048 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.123 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion: 61 Resp: 970

Ion	Ratio	Lower	Upper
61	100		
96	0.0	53.5	80.3#
98	0.0	33.6	50.4#

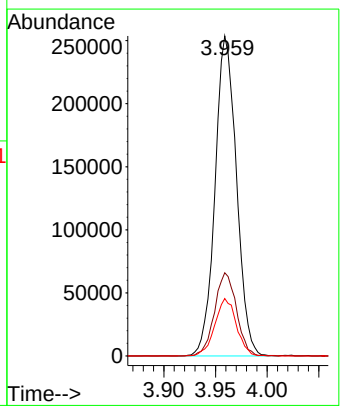


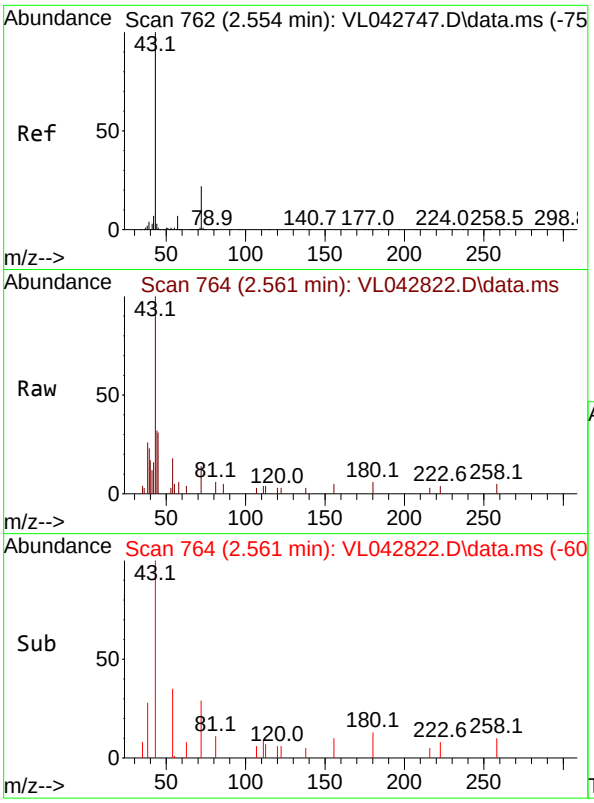


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion:114 Resp: 366115

Ion	Ratio	Lower	Upper
114	100		
63	26.8	20.5	30.7
88	18.1	14.0	21.0



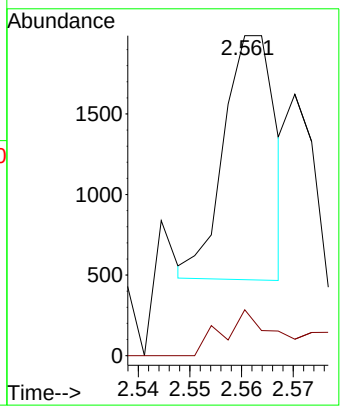


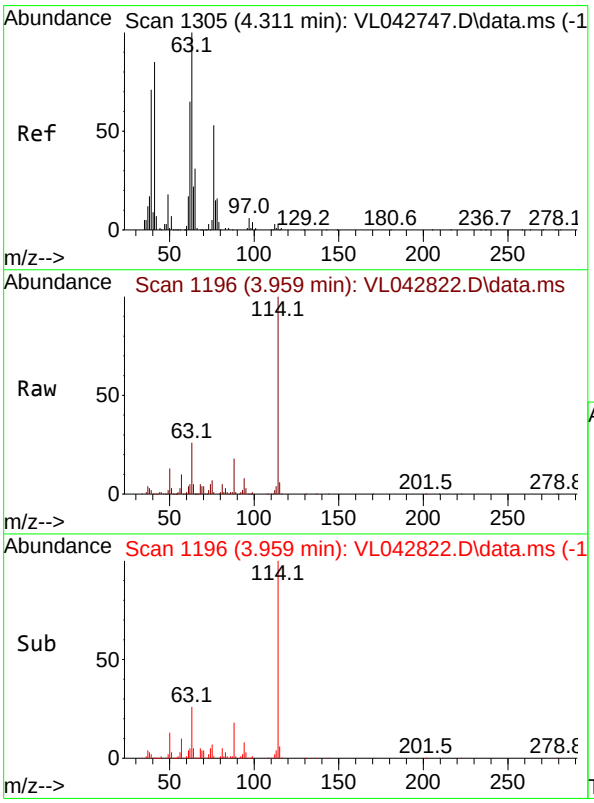
#34
2-Butanone
Concen: 0.041 ppbv
RT: 2.561 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion: 43 Resp: 1052

Ion	Ratio	Lower	Upper
43	100		
72	24.5	17.4	26.0

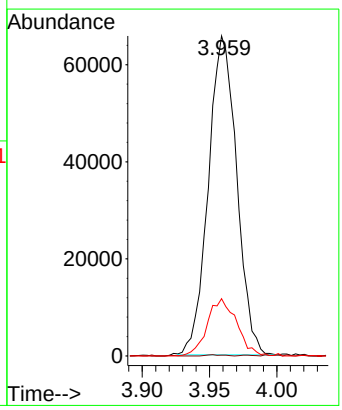


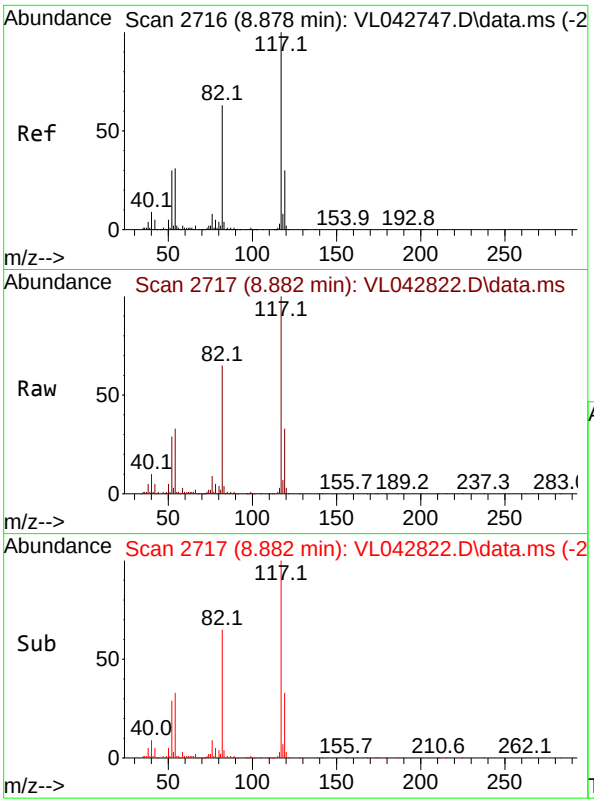


#39
1,2-Dichloropropane
Concen: 7.510 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 63 Resp: 96193

Ion	Ratio	Lower	Upper
63	100		
41	0.5	68.2	102.4#
62	17.9	52.0	78.0#



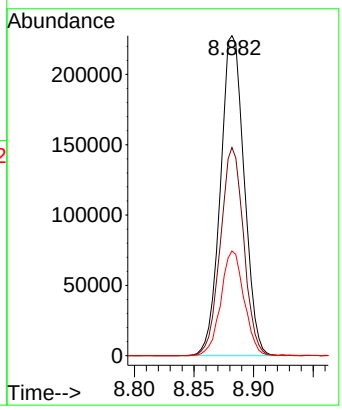


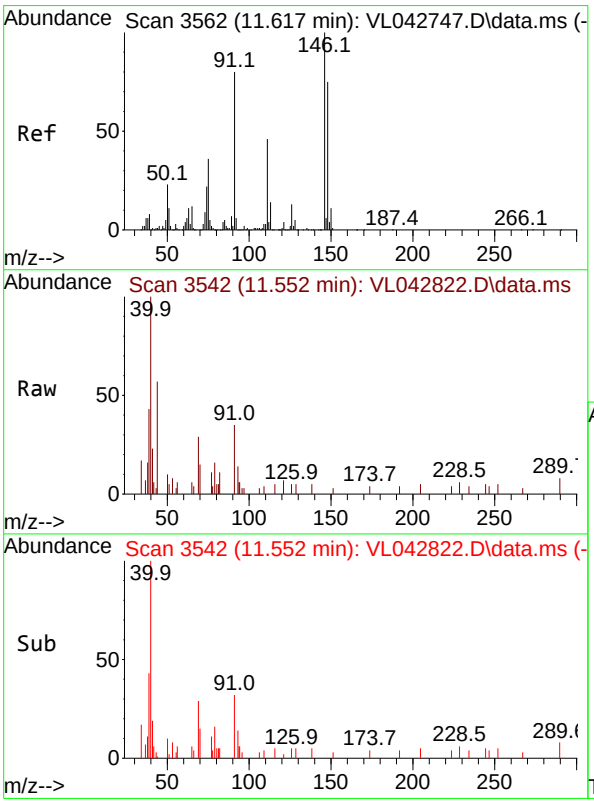
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion:117 Resp: 315576

Ion	Ratio	Lower	Upper
117	100		
82	63.9	53.3	79.9
119	32.2	25.8	38.6

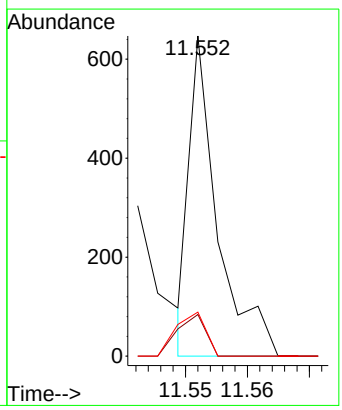


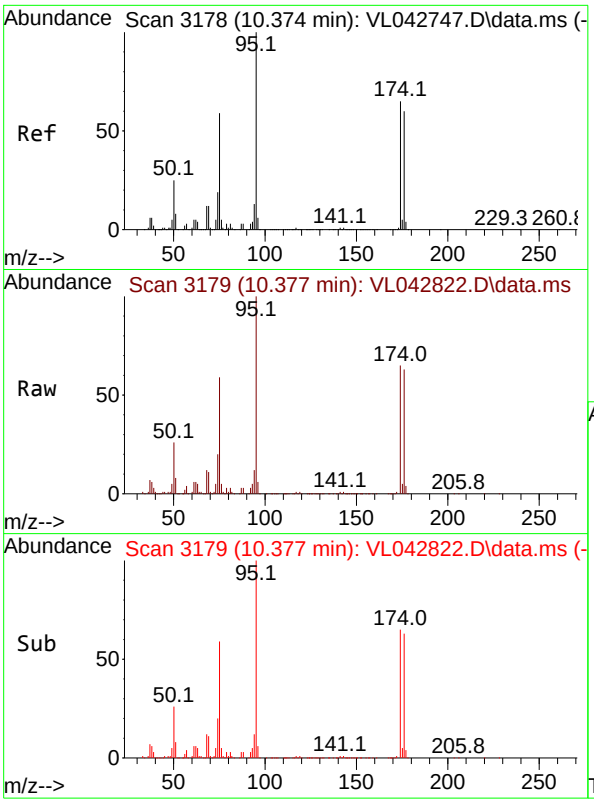


#66
Benzyl Chloride
Concen: 0.048 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. -0.065 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion: 91 Resp: 206

Ion	Ratio	Lower	Upper
91	100		
126	13.1	14.4	21.6#
128	14.6	5.2	7.8#



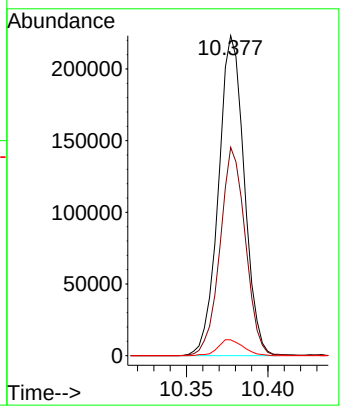


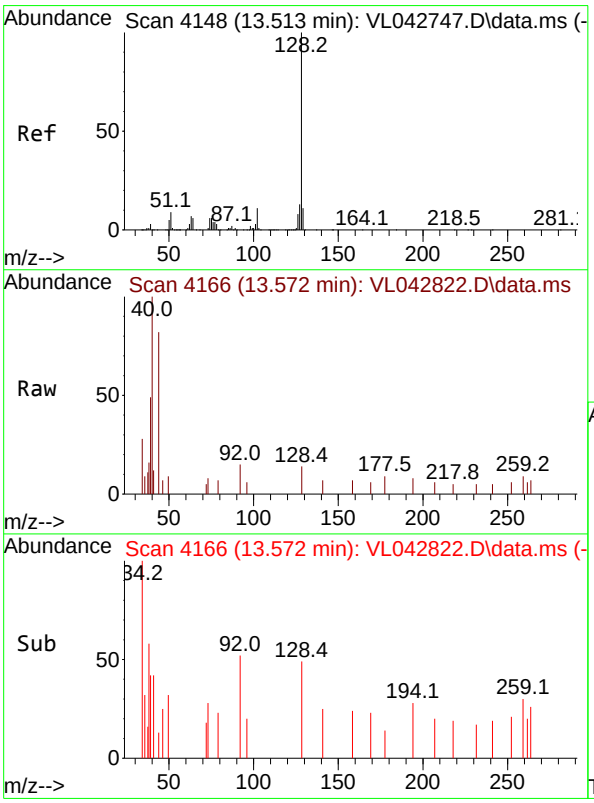
#68
1-Bromo-4-Fluorobenzene
Concen: 9.816 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion: 95 Resp: 245322

Ion	Ratio	Lower	Upper
95	100		
174	64.3	53.8	80.6
175	5.0	4.0	6.0

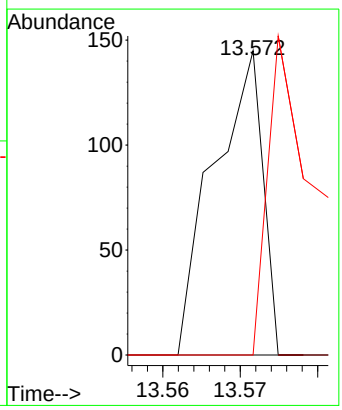


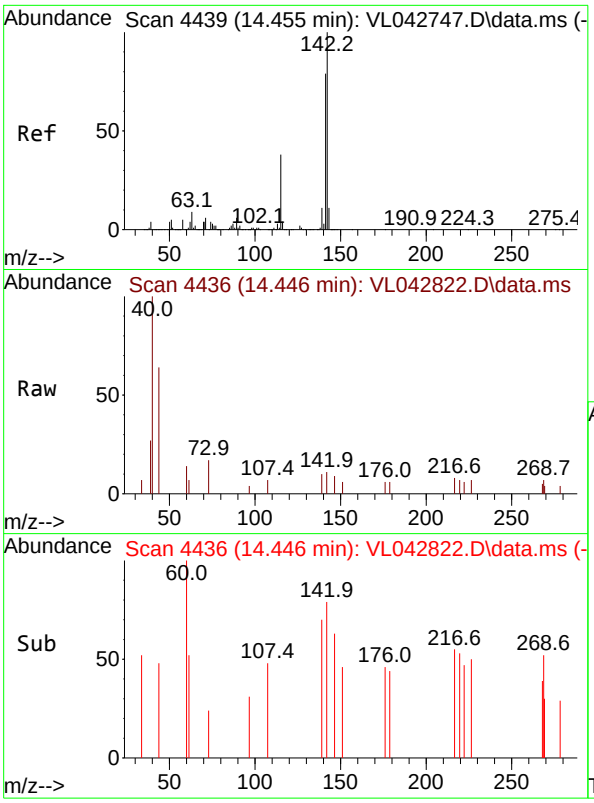


#79
Naphthalene
Concen: 0.436 ppbv
RT: 13.572 min Scan# 4166
Delta R.T. 0.058 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion:128 Resp: 64

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	13.0#



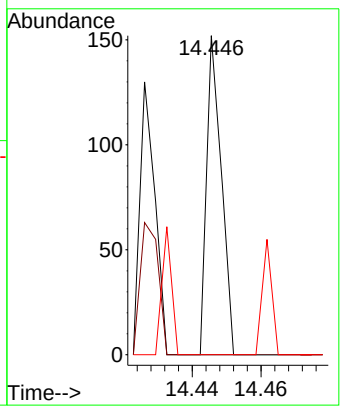


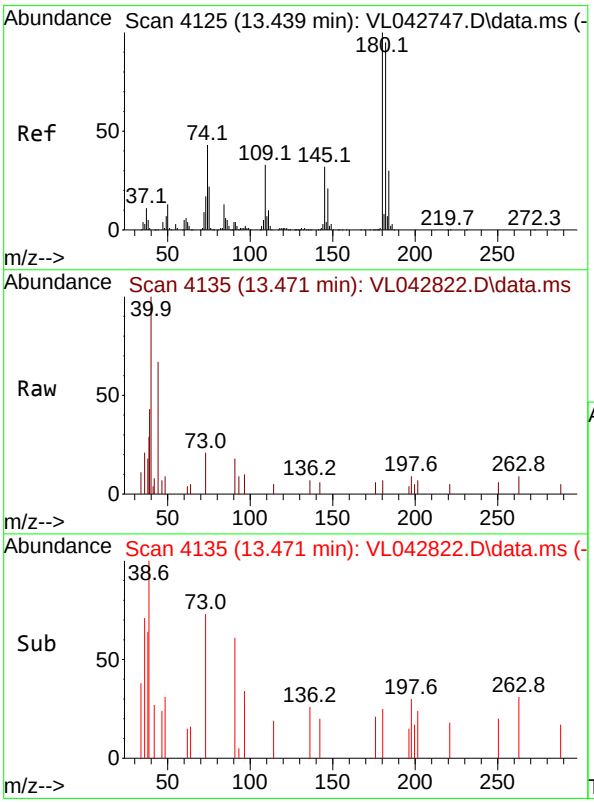
#80
Naphthalene,2-methyl-
Concen: 1.130 ppbv
RT: 14.446 min Scan# 44
Delta R.T. -0.010 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

Tgt Ion:142 Resp: 45

Ion	Ratio	Lower	Upper
142	100		
141	0.0	65.8	98.8#
115	0.0	31.2	46.8#





#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.471 min Scan# 4135
Delta R.T. 0.033 min
Lab File: VL042822.D
Acq: 05 Aug 2025 00:45

Tgt Ion:180 Resp: 28

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	132.1	24.8	37.2#

