

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043168.D
 Acq On : 06 Nov 2025 15:27
 Operator : SY/MD
 Sample : Q3556-03DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 131-SG-1DL

Quant Time: Nov 07 00:23:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

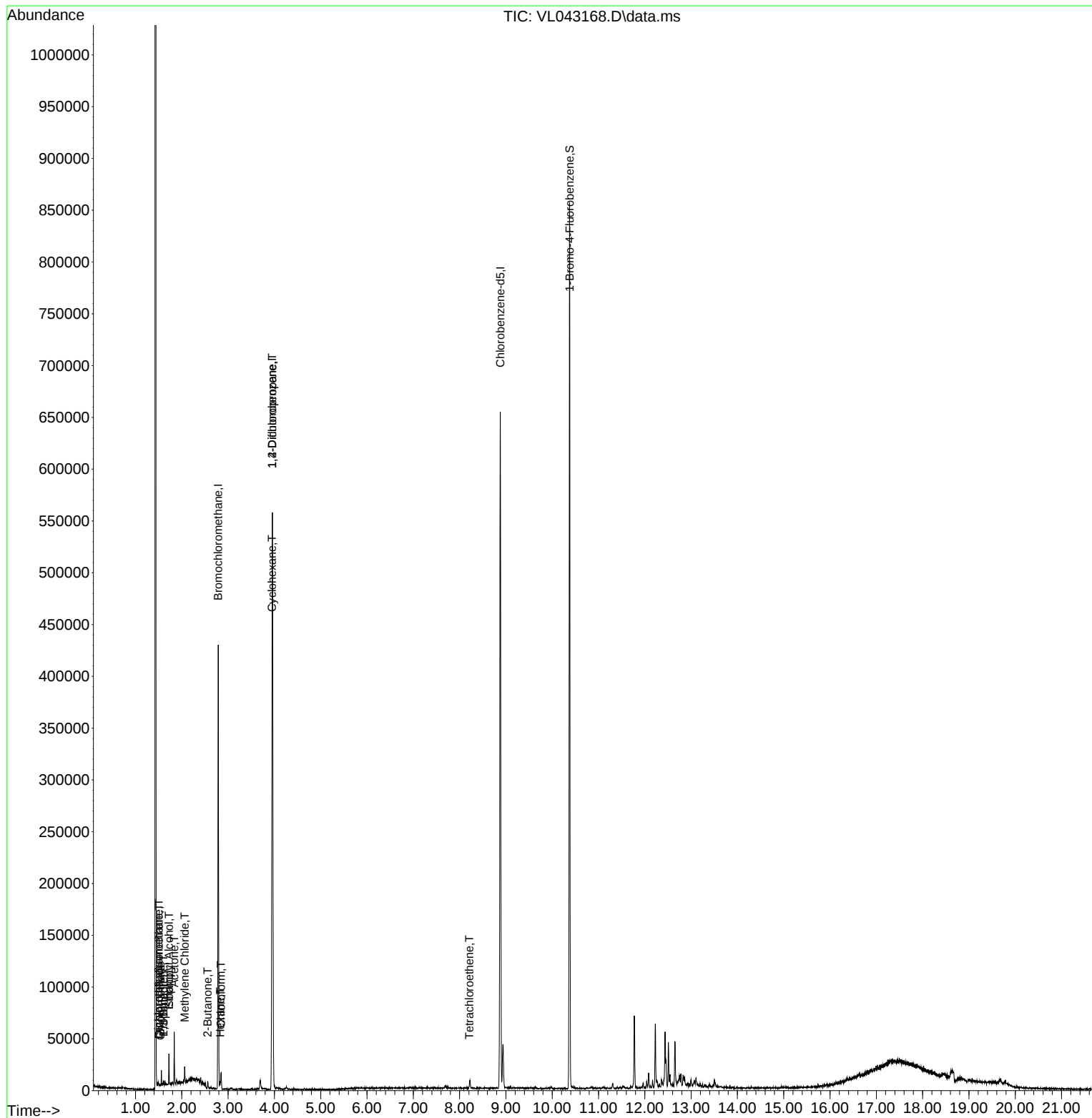
Internal Standards						
1) Bromochloromethane	2.787	49	112949	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	318311	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	264373	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	205406	9.996	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	939	0.058	ppbv #	76
4) Chloromethane	1.534	50	201	0.032	ppbv #	43
8) Dichlorotetrafluoroethane	1.502	85	939	0.072	ppbv #	20
9) Propene	1.602	41	663	0.086	ppbv	92
13) Ethanol	1.722	45	9199	3.228	ppbv	95
15) Acetone	1.835	43	20709	1.360	ppbv	98
16) 1,3-Butadiene	1.602	39	581	0.080	ppbv #	13
19) Isopropyl Alcohol	1.722	45	9199	0.970	ppbv #	64
20) Methylene Chloride	2.062	84	2190	0.364	ppbv #	92
26) Hexane	2.829	57	537	0.031	ppbv #	26
29) Chloroform	2.848	83	6795	0.270	ppbv	87
30) Cyclohexane	3.949	84	1271	0.084	ppbv #	1
34) 2-Butanone	2.557	43	3680	0.172	ppbv	95
39) 1,2-Dichloropropane	3.955	63	83353	7.605	ppbv #	25
52) Tetrachloroethene	8.212	164	340	0.031	ppbv #	49

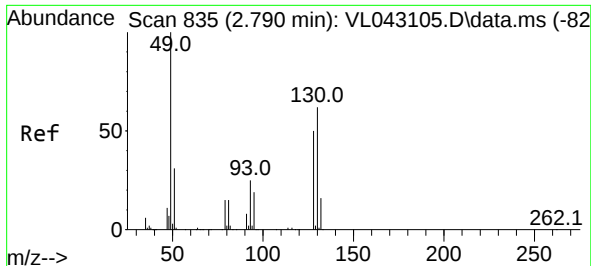
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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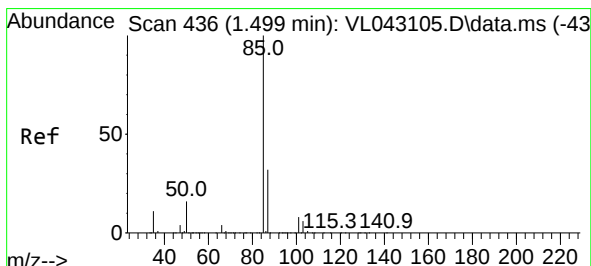
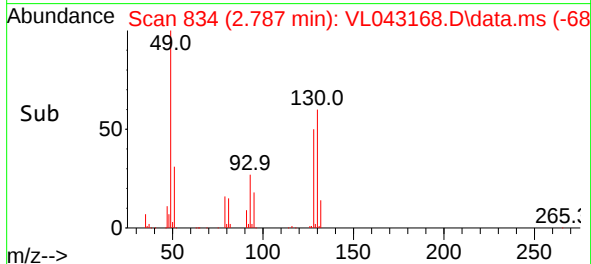
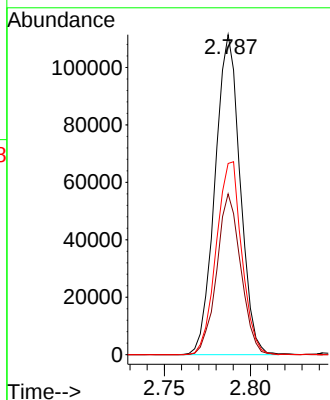
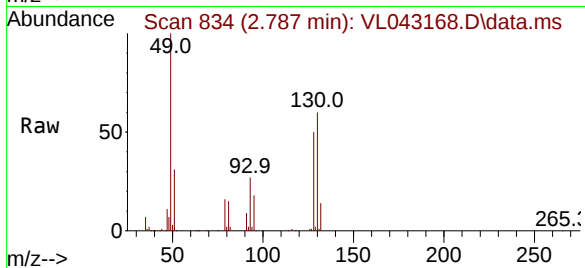




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

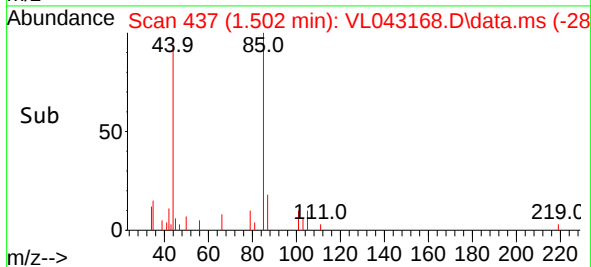
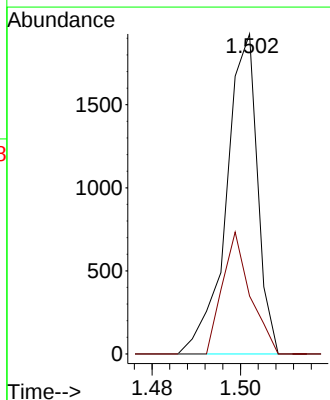
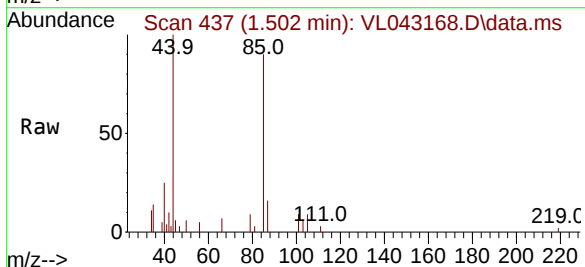
Instrument :
MSVOA_L
ClientSampleId :
131-SG-1DL

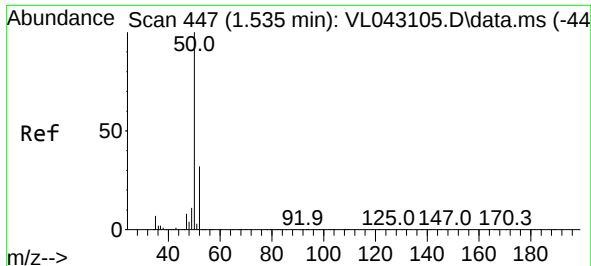
Tgt Ion: 49 Resp: 112949
Ion Ratio Lower Upper
49 100
128 48.2 24.4 73.4
130 61.4 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.058 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

Tgt Ion: 85 Resp: 939
Ion Ratio Lower Upper
85 100
87 18.1 25.3 37.9

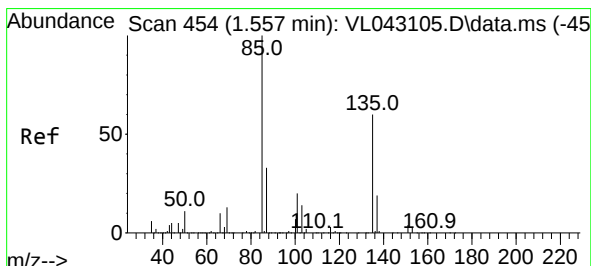
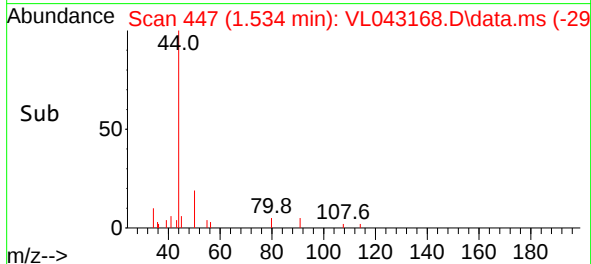
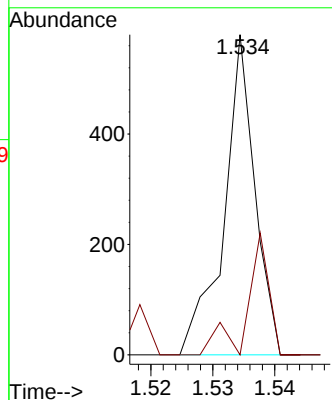
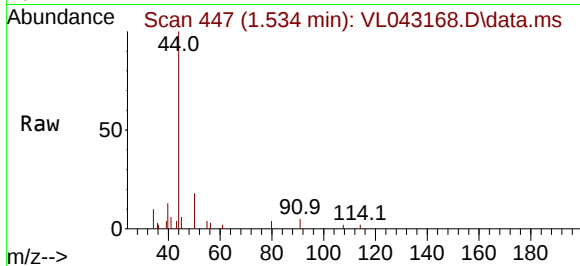




#4
Chloromethane
Concen: 0.032 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

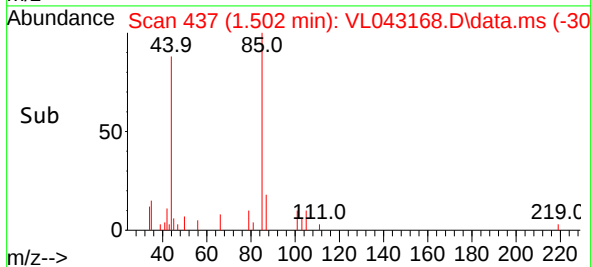
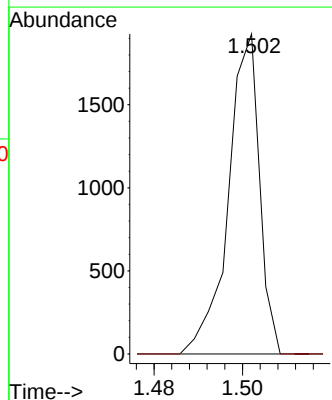
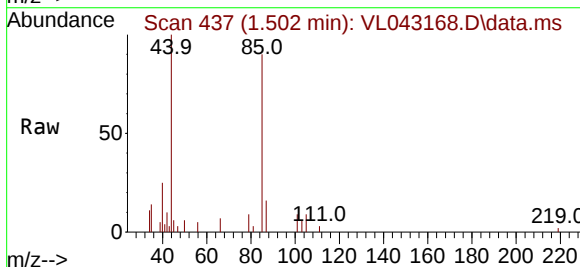
Instrument :
MSVOA_L
ClientSampleId :
131-SG-1DL

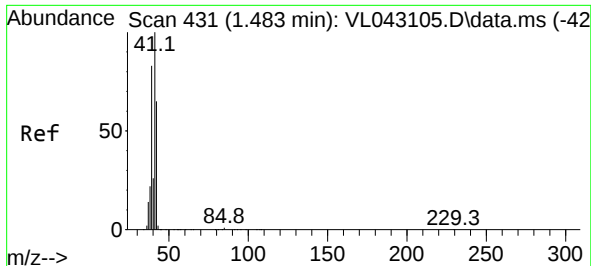
Tgt Ion: 50 Resp: 201
Ion Ratio Lower Upper
50 100
52 0.0 25.2 37.8#



#8
Dichlorotetrafluoroethane
Concen: 0.072 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.055 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

Tgt Ion: 85 Resp: 939
Ion Ratio Lower Upper
85 100
135 0.0 48.2 72.4#





#9

Propene

Concen: 0.086 ppbv

RT: 1.602 min Scan# 41

Delta R.T. 0.120 min

Lab File: VL043168.D

Acq: 06 Nov 2025 15:27

Instrument :

MSVOA_L

ClientSampleId :

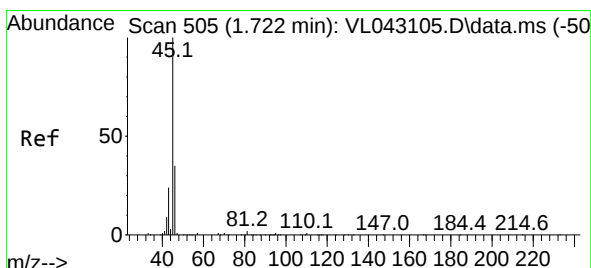
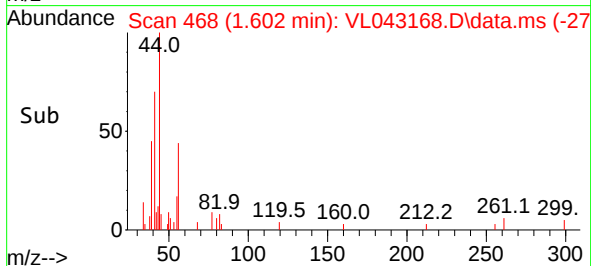
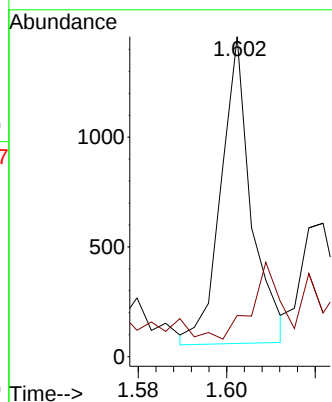
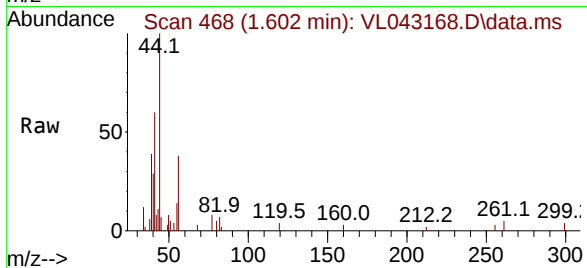
131-SG-1DL

Tgt Ion: 41 Resp: 663

Ion Ratio Lower Upper

41 100

42 75.3 55.1 82.7



#13

Ethanol

Concen: 3.228 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.000 min

Lab File: VL043168.D

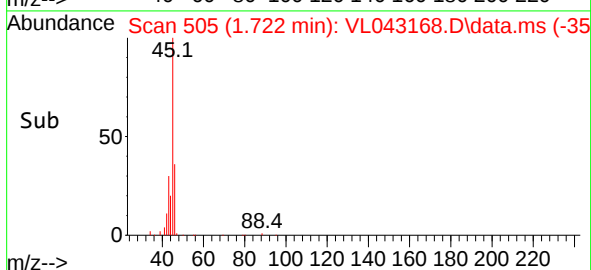
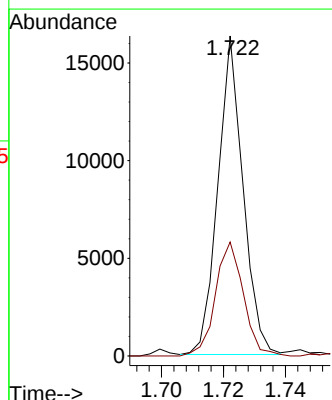
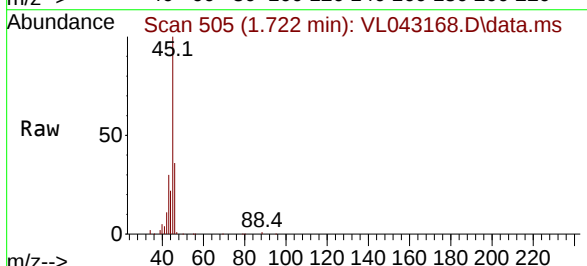
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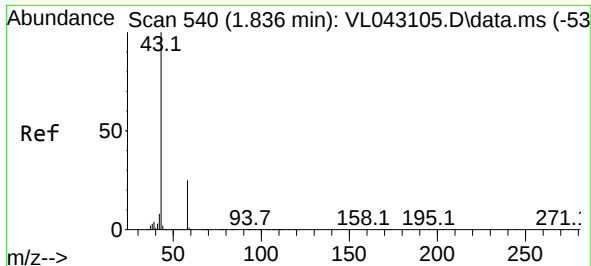
Tgt Ion: 45 Resp: 9199

Ion Ratio Lower Upper

45 100

46 39.7 14.7 58.9

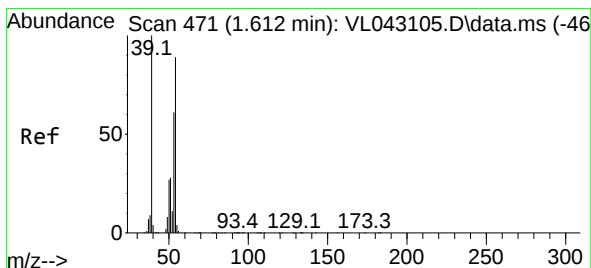
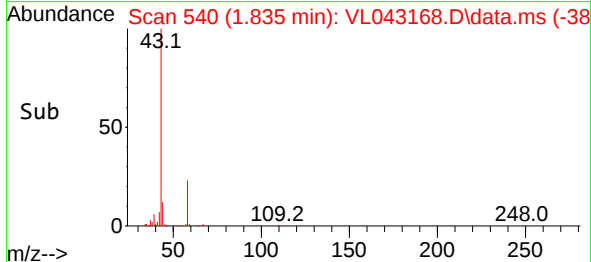
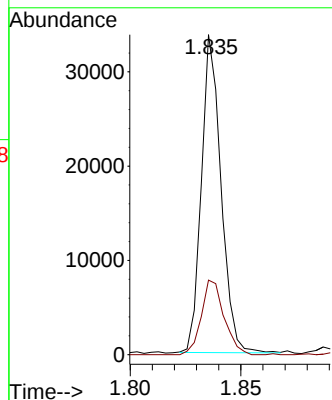
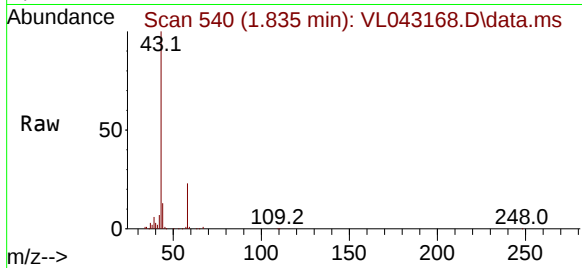




#15
Acetone
Concen: 1.360 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

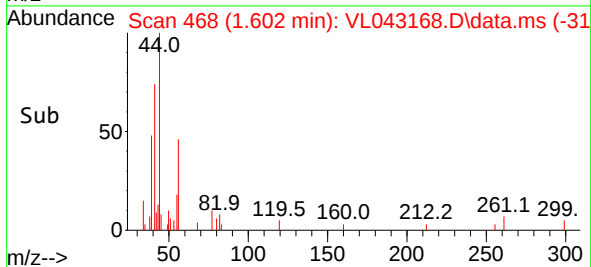
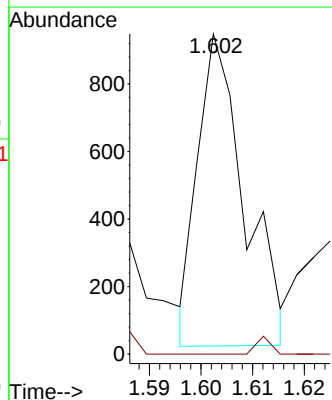
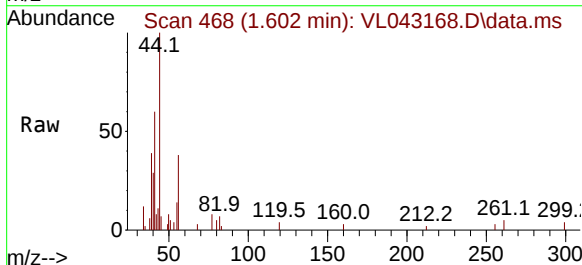
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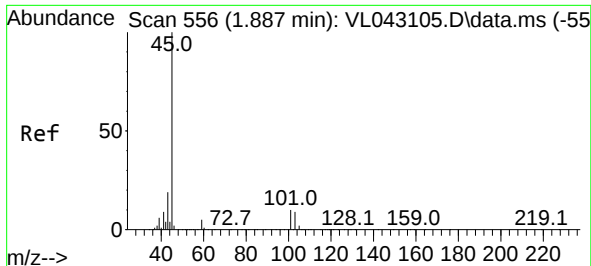
Tgt Ion: 43 Resp: 20709
Ion Ratio Lower Upper
43 100
58 27.2 20.8 31.2



#16
1,3-Butadiene
Concen: 0.080 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.010 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

Tgt Ion: 39 Resp: 581
Ion Ratio Lower Upper
39 100
54 0.0 59.0 88.4#

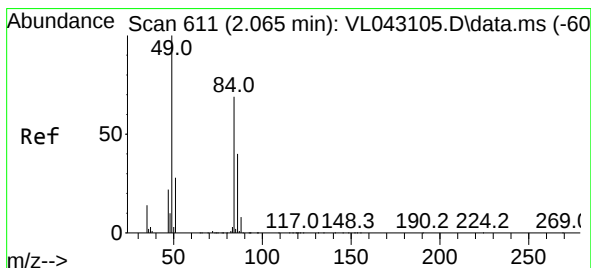
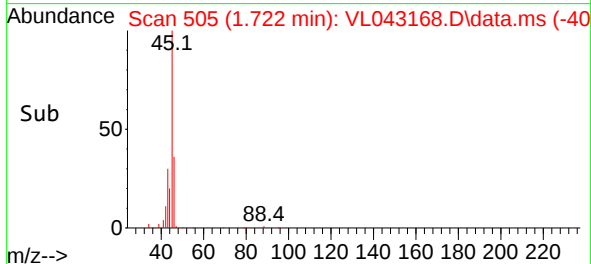
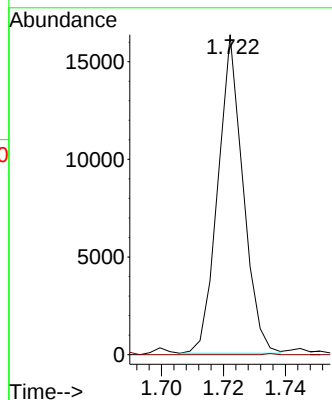
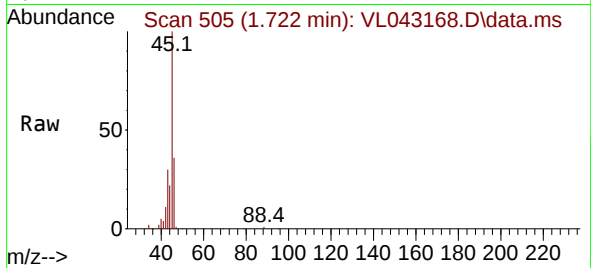




#19
Isopropyl Alcohol
Concen: 0.970 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.165 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

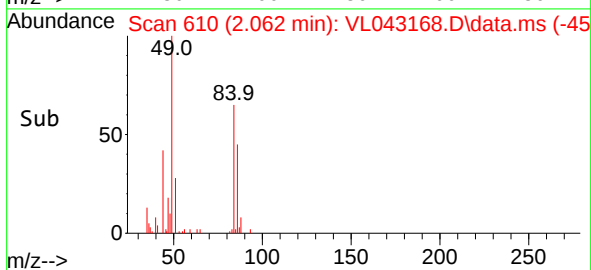
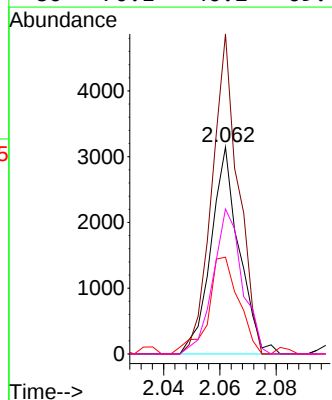
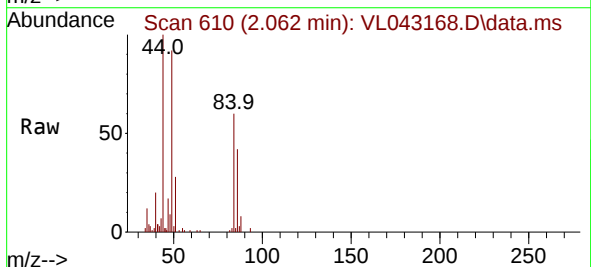
Instrument :
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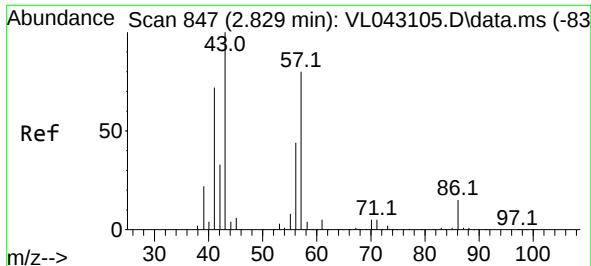
Tgt Ion: 45 Resp: 9199
Ion Ratio Lower Upper
45 100
58 61.4 31.3 46.9#



#20
Methylene Chloride
Concen: 0.364 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

Tgt Ion: 84 Resp: 2190
Ion Ratio Lower Upper
84 100
49 154.7 116.6 175.0
51 43.6 34.8 52.2
86 70.1 46.2 69.4#

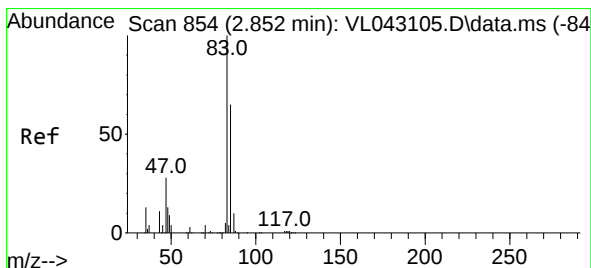
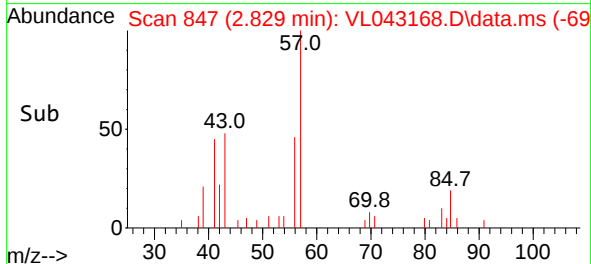
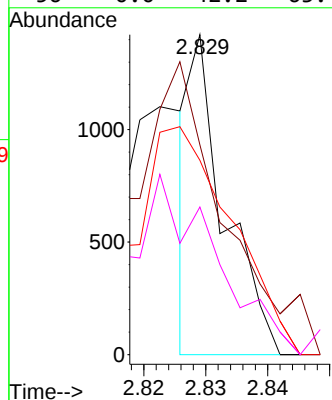
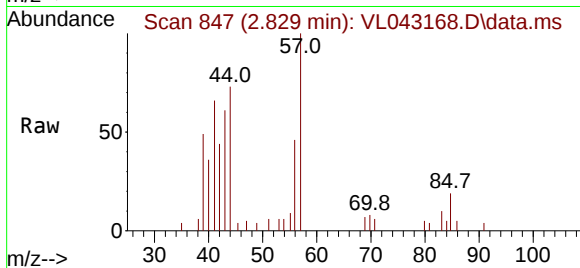




#26
Hexane
Concen: 0.031 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

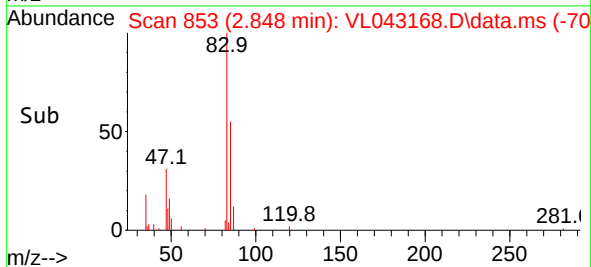
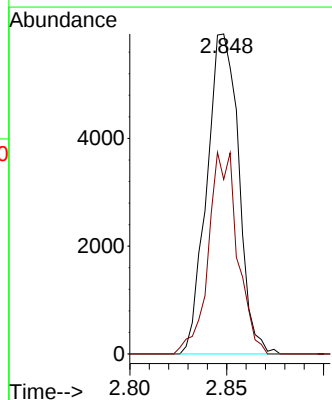
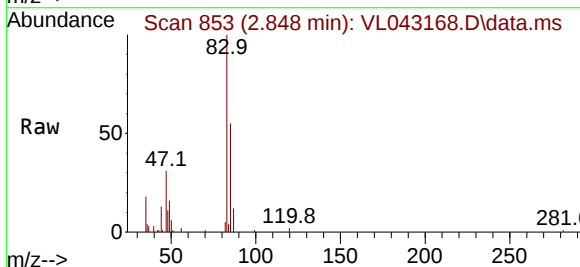
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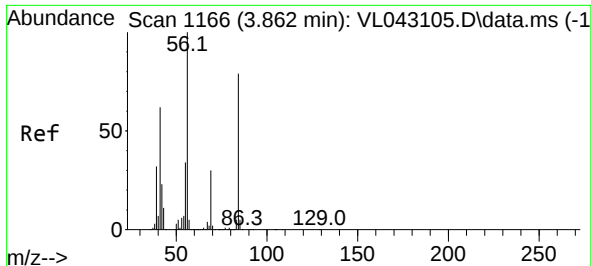
Tgt Ion:	57	Resp:	537
Ion	Ratio	Lower	Upper
57	100		
41	303.7	71.4	107.0#
43	241.7	178.5	267.7
56	0.0	42.2	63.4#



#29
Chloroform
Concen: 0.270 ppbv
RT: 2.848 min Scan# 853
Delta R.T. -0.003 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

Tgt Ion:	83	Resp:	6795
Ion	Ratio	Lower	Upper
83	100		
85	54.6	51.8	77.6

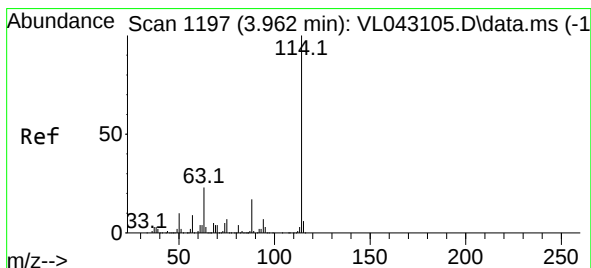
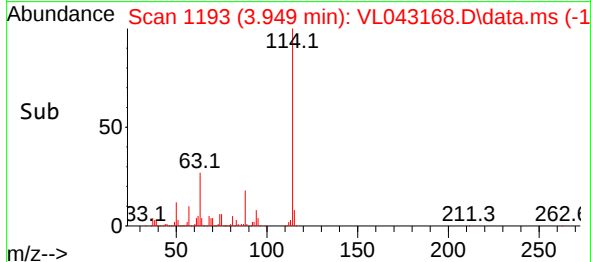
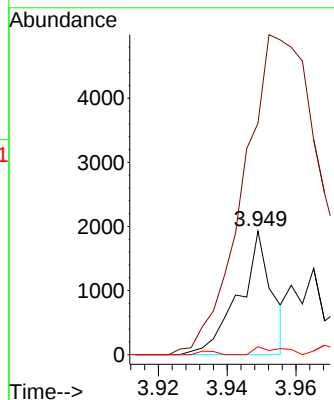
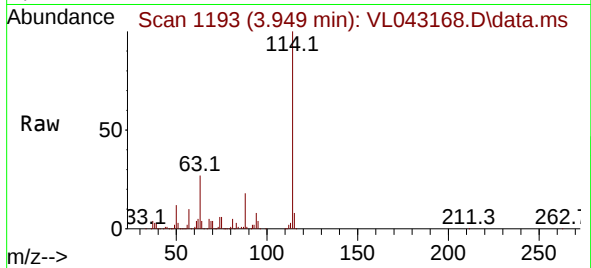




#30
Cyclohexane
Concen: 0.084 ppbv
RT: 3.949 min Scan# 1166
Delta R.T. 0.087 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

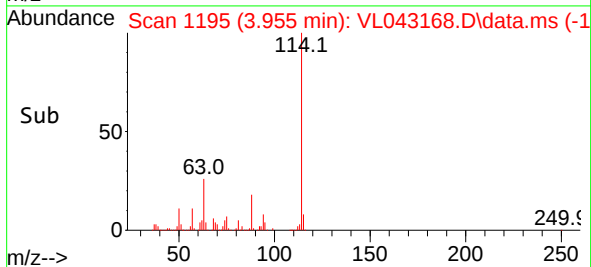
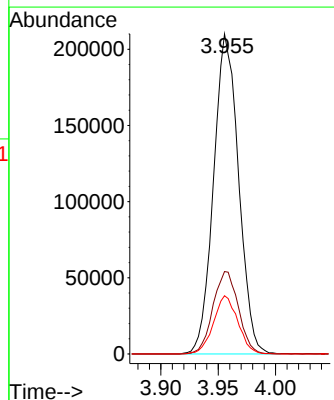
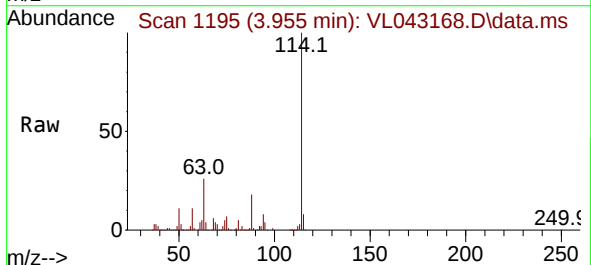
Instrument :
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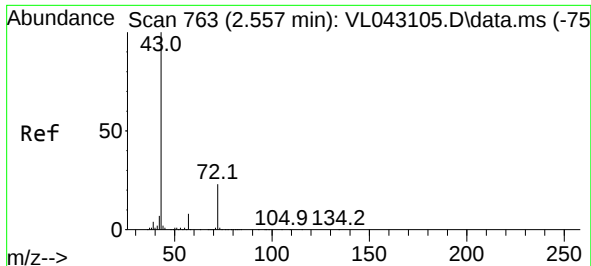
Tgt Ion: 84 Resp: 1271
Ion Ratio Lower Upper
84 100
56 623.4 100.9 151.3#
41 12.0 63.8 95.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.007 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

Tgt Ion:114 Resp: 318311
Ion Ratio Lower Upper
114 100
63 26.3 19.3 28.9
88 17.7 13.9 20.9

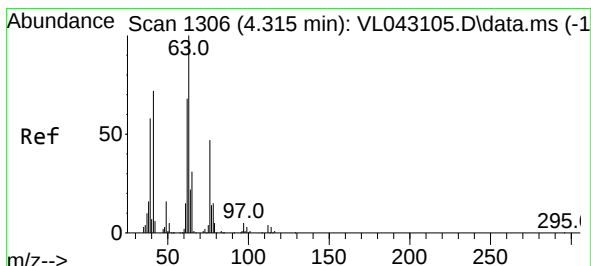
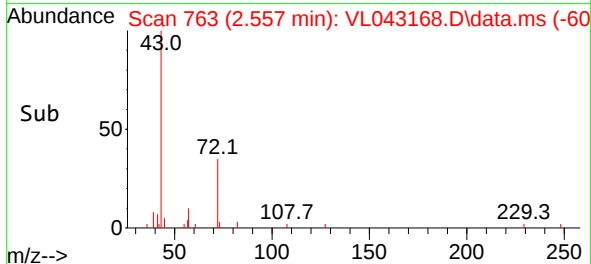
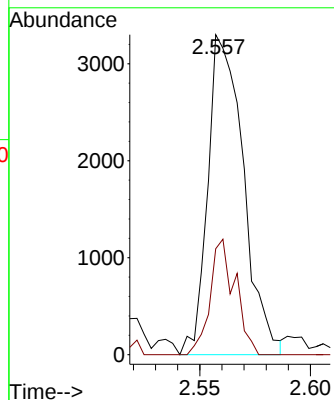
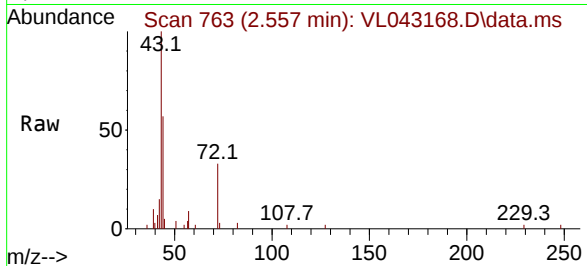




#34
2-Butanone
Concen: 0.172 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

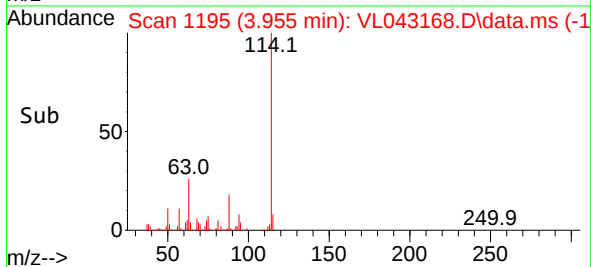
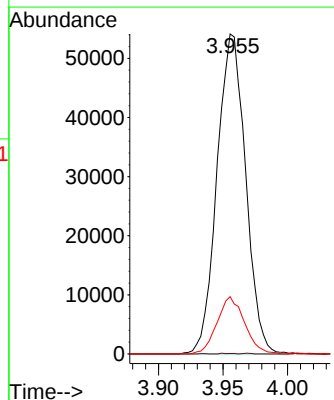
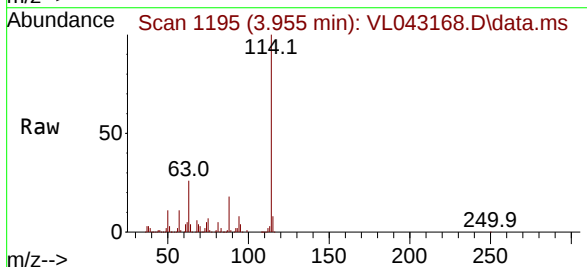
Instrument :
MSVOA_L
ClientSampleId :
131-SG-1DL

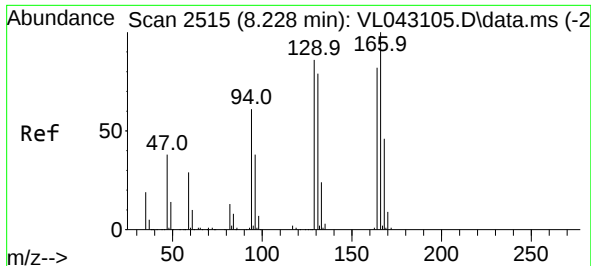
Tgt Ion: 43 Resp: 3680
Ion Ratio Lower Upper
43 100
72 25.6 18.4 27.6



#39
1,2-Dichloropropane
Concen: 7.605 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.359 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

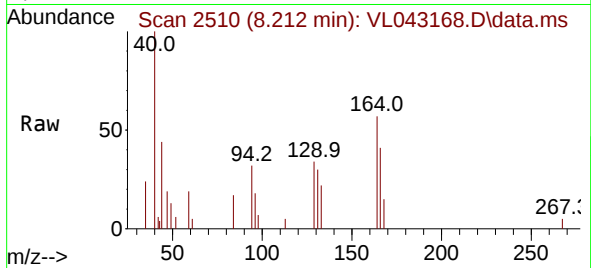
Tgt Ion: 63 Resp: 83353
Ion Ratio Lower Upper
63 100
41 0.2 58.0 87.0#
62 17.9 54.7 82.1#



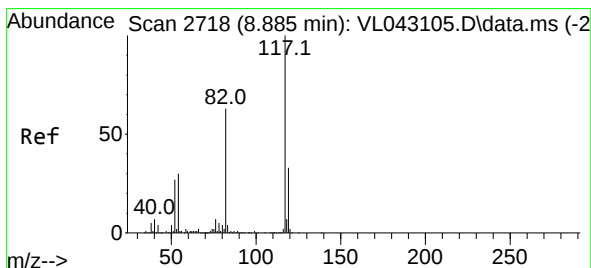
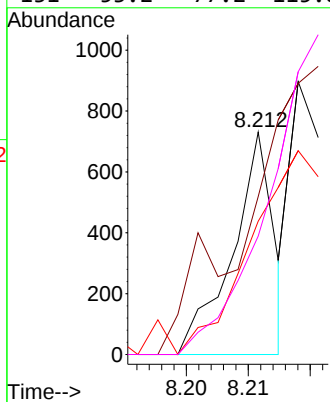
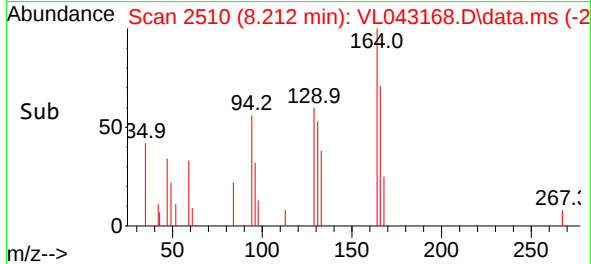


#52
Tetrachloroethene
Concen: 0.031 ppbv
RT: 8.212 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

Instrument :
MSVOA_L
ClientSampleId :
131-SG-1DL

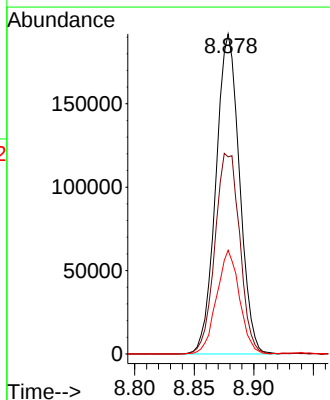
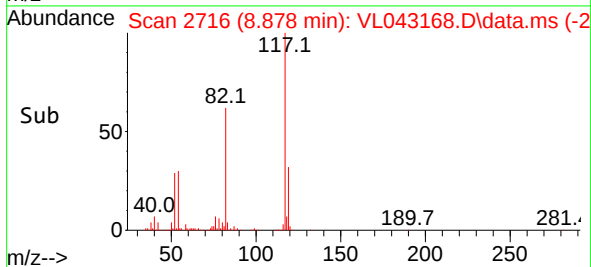
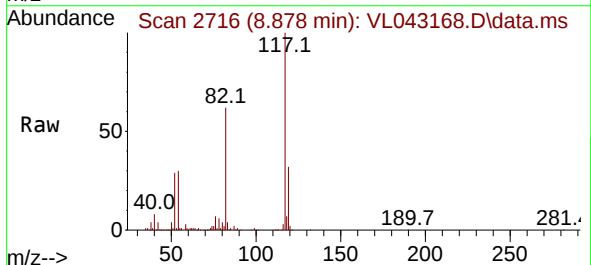


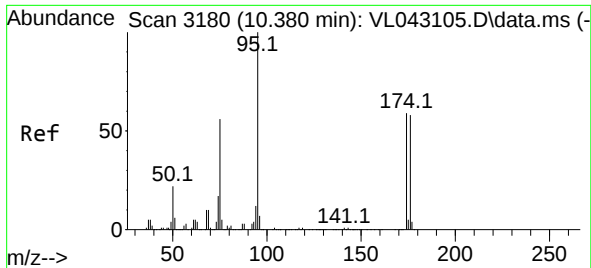
Tgt Ion:164 Resp: 340
Ion Ratio Lower Upper
164 100
166 52.9 97.6 146.4#
129 59.9 84.5 126.7#
131 53.2 77.2 115.8#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.007 min
Lab File: VL043168.D
Acq: 06 Nov 2025 15:27

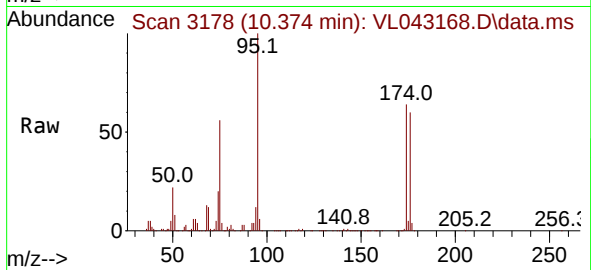
Tgt Ion:117 Resp: 264373
Ion Ratio Lower Upper
117 100
82 65.9 53.8 80.8
119 31.5 25.4 38.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.996 ppbv
 RT: 10.374 min Scan# 31
 Delta R.T. -0.007 min
 Lab File: VL043168.D
 Acq: 06 Nov 2025 15:27

Instrument :
 MSVOA_L
 ClientSampleId :
 131-SG-1DL



Tgt Ion: 95 Resp: 205406
 Ion Ratio Lower Upper
 95 100
 174 63.7 48.3 72.5
 175 4.7 3.8 5.8

