

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043119.D
 Acq On : 15 Oct 2025 12:12
 Operator : SY/MD
 Sample : Q3247-01DL 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 16 01:16:38 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)

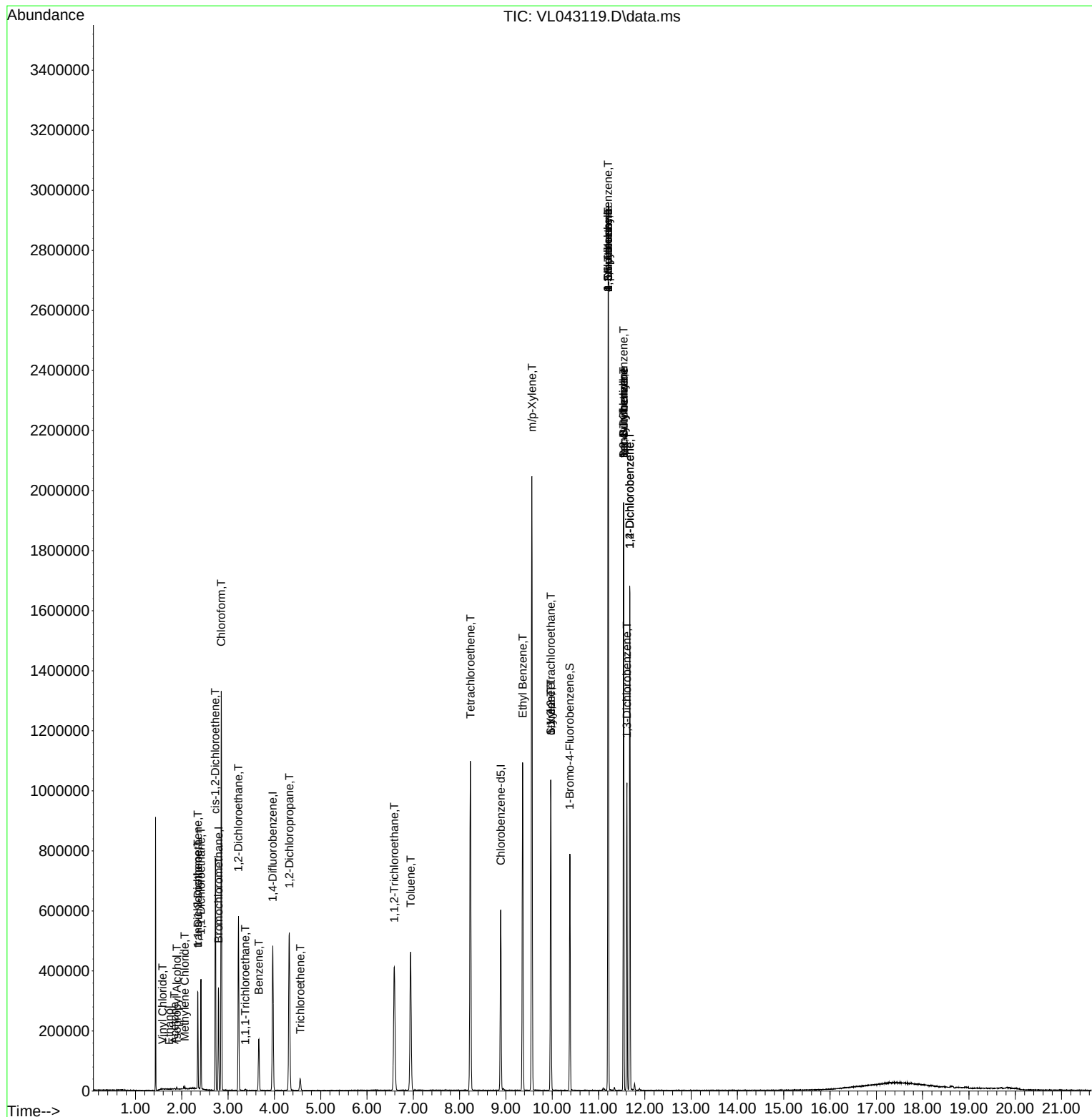
Internal Standards								
1) Bromochloromethane			2.793	49	89788	10.000	ppbv	0.00
33) 1,4-Difluorobenzene			3.965	114	289768	10.000	ppbv	0.00
55) Chlorobenzene-d5			8.888	117	254747	10.000	ppbv	0.00
System Monitoring Compounds								
68) 1-Bromo-4-Fluorobenzene			10.380	95	209345	10.573	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	=	105.700%	
Target Compounds								
								Qvalue
5) Vinyl Chloride			1.586	62	269	0.054	ppbv	# 84
13) Ethanol			1.725	45	122	0.054	ppbv	# 38
15) Acetone			1.839	43	1420	0.117	ppbv	# 89
18) 1,1-Dichloroethene			2.347	96	50179	11.450	ppbv	78
19) Isopropyl Alcohol			1.890	45	3068	0.407	ppbv	# 36
20) Methylene Chloride			2.065	84	1136	0.237	ppbv	# 81
22) trans-1,2-Dichloroethene			2.347	96	50179	9.579	ppbv	97
24) 1,1-Dichloroethane			2.415	63	160183	15.827	ppbv	100
29) Chloroform			2.852	83	551740	27.536	ppbv	100
31) cis-1,2-Dichloroethene			2.725	61	239474	18.135	ppbv	97
32) 1,1,1-Trichloroethane			3.373	97	1487	0.071	ppbv	# 65
36) Benzene			3.664	78	106862	3.915	ppbv	98
37) 1,2-Dichloroethane			3.224	62	333413	21.207	ppbv	97
38) Trichloroethene			4.557	130	10733	0.942	ppbv	# 89
39) 1,2-Dichloropropane			4.321	63	156136	15.649	ppbv	91
47) 1,1,2-Trichloroethane			6.590	97	144510	13.412	ppbv	94
52) Tetrachloroethene			8.234	164	189850	19.290	ppbv	99
53) Toluene			6.943	91	346344	10.693	ppbv	99
58) Ethyl Benzene			9.361	91	648462	14.832	ppbv	97
59) m/p-Xylene			9.561	91	981688	28.152	ppbv	97
60) o-Xylene			9.969	91	232435	6.749	ppbv	98
61) Styrene			9.969	104	4853	0.312	ppbv	# 1
63) 1,1,2,2-Tetrachloroethane			9.969	83	199571	8.654	ppbv	99
64) n-propylbenzene			11.209	120	519500	31.530	ppbv	# 1
65) tert-Butylbenzene			11.542	119	78512	1.429	ppbv	# 58
66) Benzyl Chloride			11.542	91	90270	14.758	ppbv	# 65
67) sec-Butylbenzene			11.542	105	743722	9.535	ppbv	# 57
71) 2-Chlorotoluene			11.209	91	142951	3.012	ppbv	# 45
72) 4-Ethyltoluene			11.209	105	1138772	26.890	ppbv	# 83
73) 1,3,5-Trimethylbenzene			11.209	105	1138772	32.606	ppbv	95
74) 1,2,4-Trimethylbenzene			11.542	105	743722	19.029	ppbv	# 50
75) 1,3-Dichlorobenzene			11.613	146	244003	10.764	ppbv	99
76) 1,4-Dichlorobenzene			11.678	146	397546	17.393	ppbv	99
77) 1,2-Dichlorobenzene			11.678	146	397546	18.129	ppbv	98

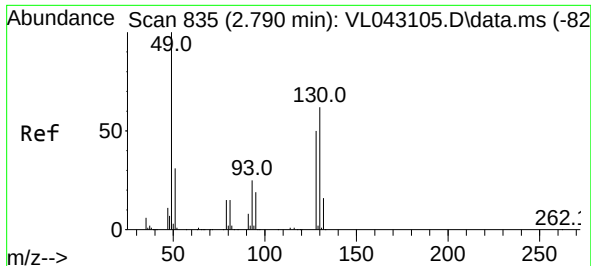
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
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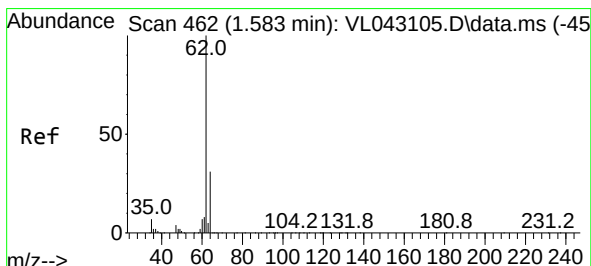
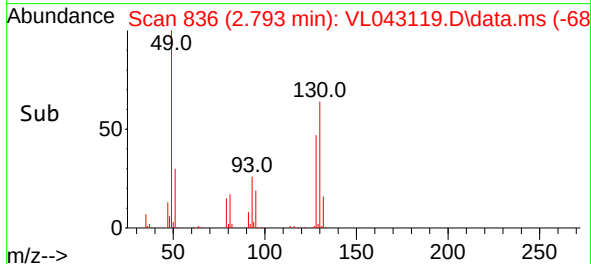
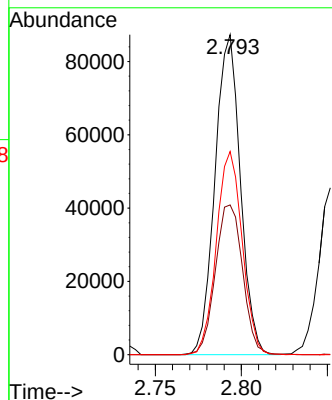
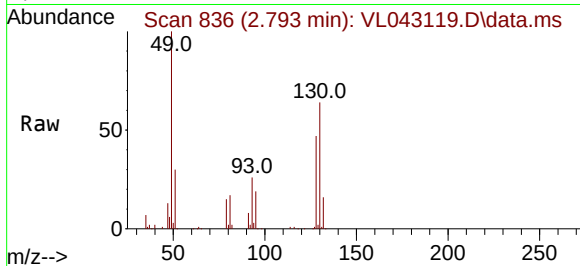




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

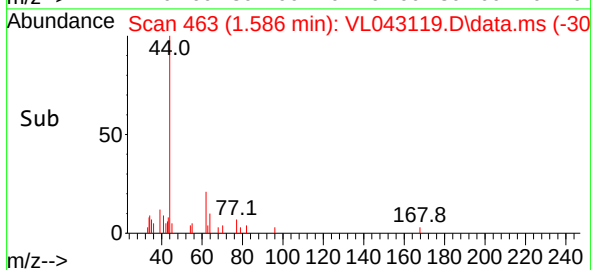
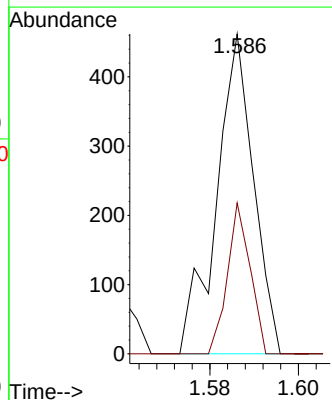
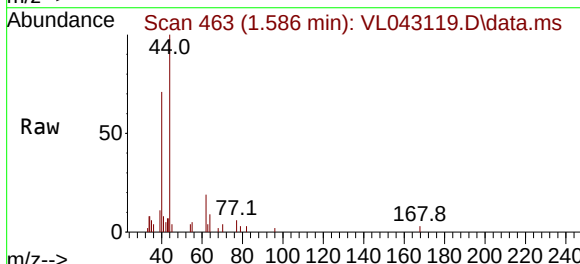
Instrument :
MSVOA_L
ClientSampleId :

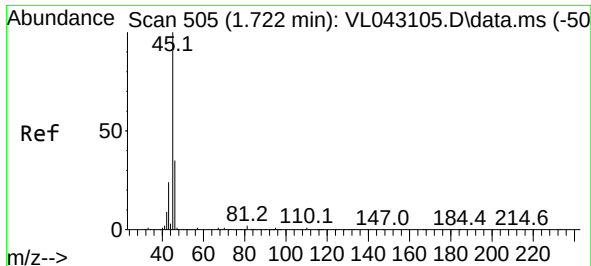
Tgt Ion: 49 Resp: 89788
Ion Ratio Lower Upper
49 100
128 50.2 24.4 73.4
130 64.4 31.0 93.0



#5
Vinyl Chloride
Concen: 0.054 ppbv
RT: 1.586 min Scan# 463
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 62 Resp: 269
Ion Ratio Lower Upper
62 100
64 39.5 24.6 36.8#

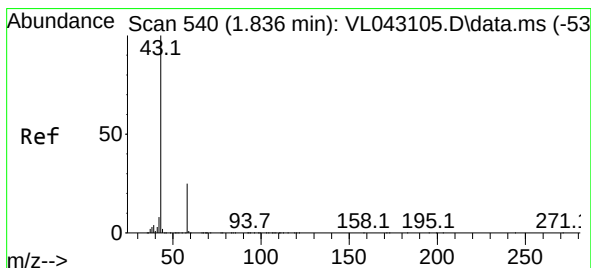
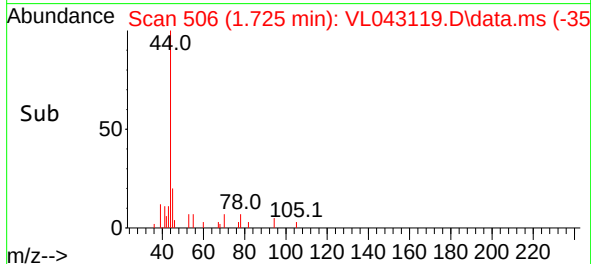
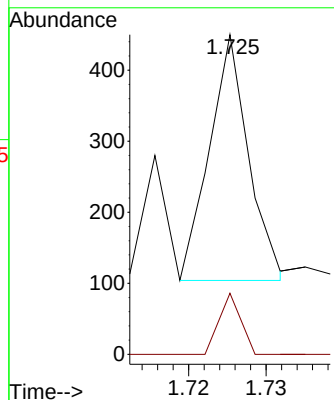
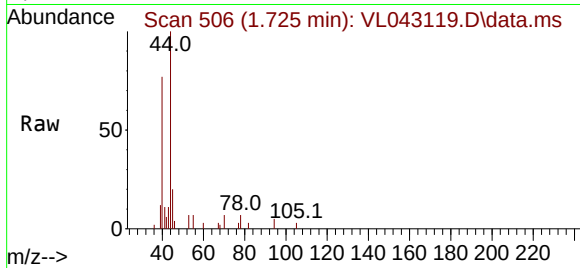




#13
Ethanol
Concen: 0.054 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

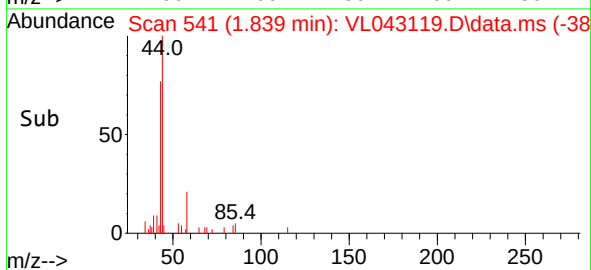
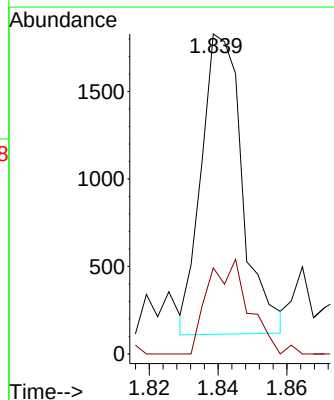
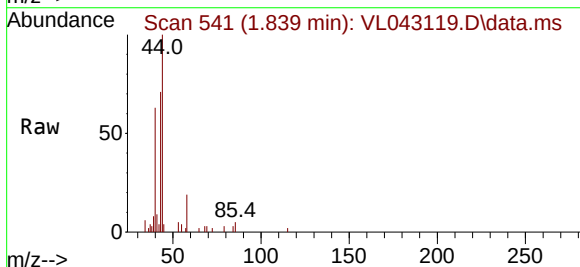
Instrument :
MSVOA_L
ClientSampleId :

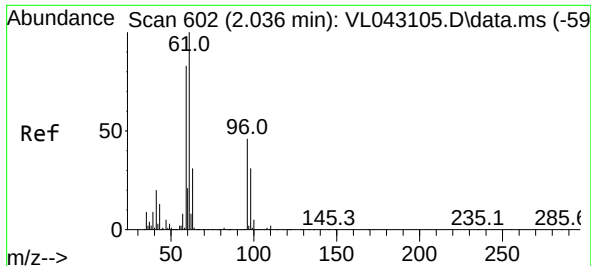
Tgt Ion: 45 Resp: 122
Ion Ratio Lower Upper
45 100
46 0.0 14.7 58.9#



#15
Acetone
Concen: 0.117 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 43 Resp: 1420
Ion Ratio Lower Upper
43 100
58 31.7 20.8 31.2#

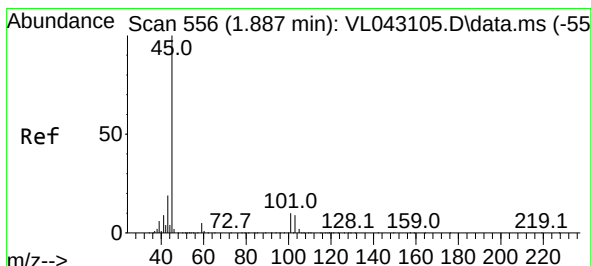
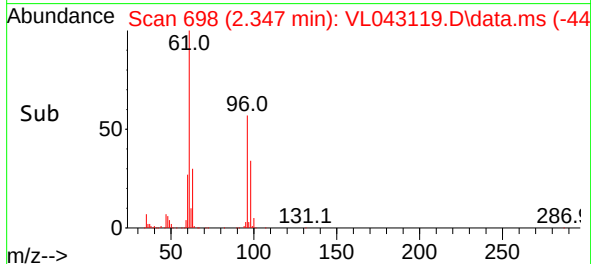
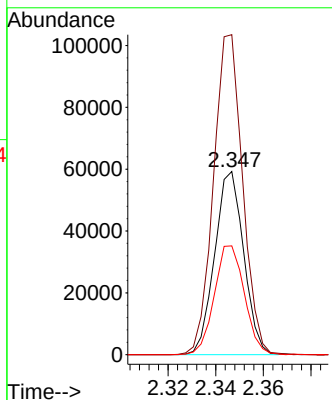
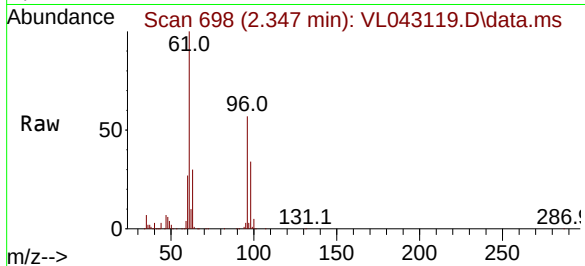




#18
1,1-Dichloroethene
Concen: 11.450 ppbv
RT: 2.347 min Scan# 602
Delta R.T. 0.310 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

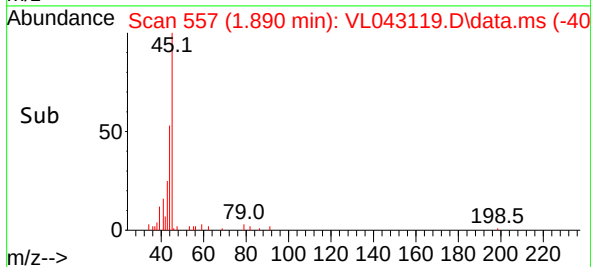
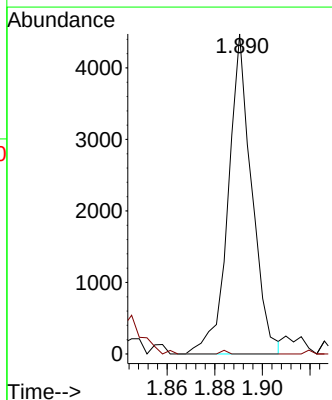
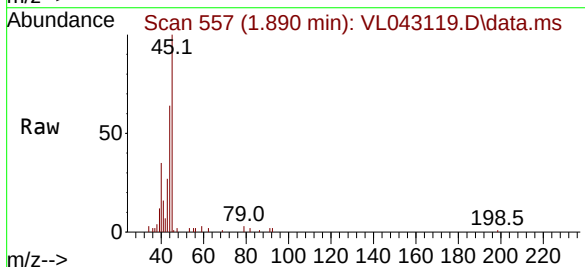
Instrument :
MSVOA_L
ClientSampleId :

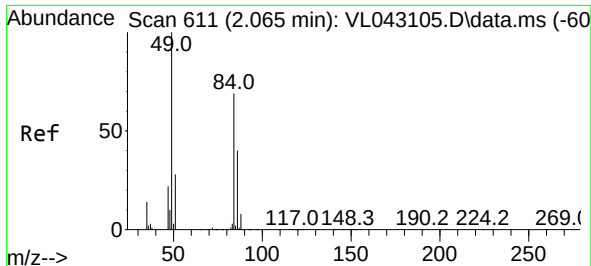
Tgt Ion: 96 Resp: 50179
Ion Ratio Lower Upper
96 100
61 174.5 173.4 260.0
98 59.3 53.2 79.8



#19
Isopropyl Alcohol
Concen: 0.407 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

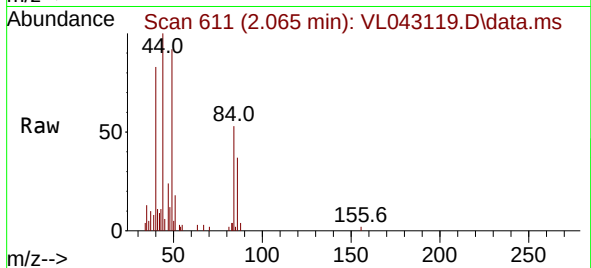
Tgt Ion: 45 Resp: 3068
Ion Ratio Lower Upper
45 100
58 0.0 31.3 46.9#



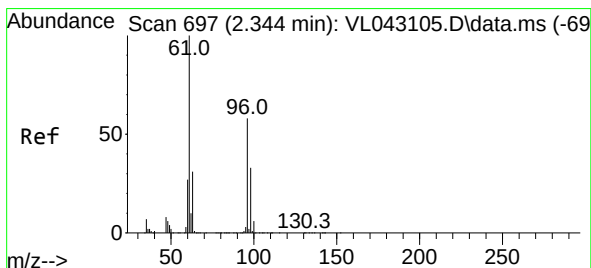
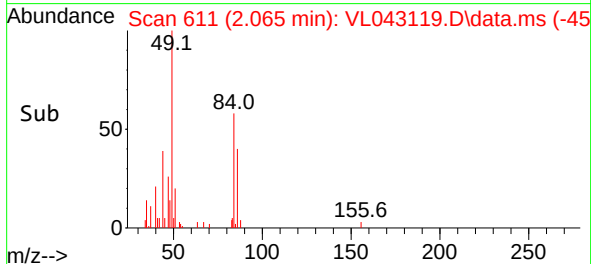
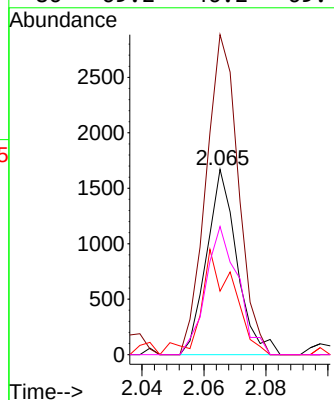


#20
Methylene Chloride
Concen: 0.237 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Instrument :
MSVOA_L
ClientSampleId :

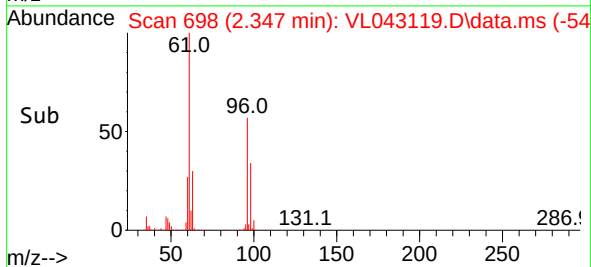
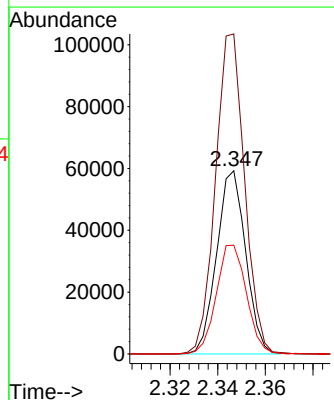
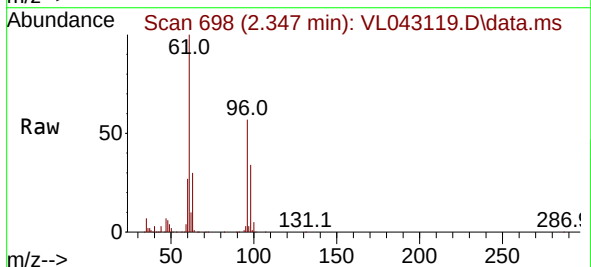


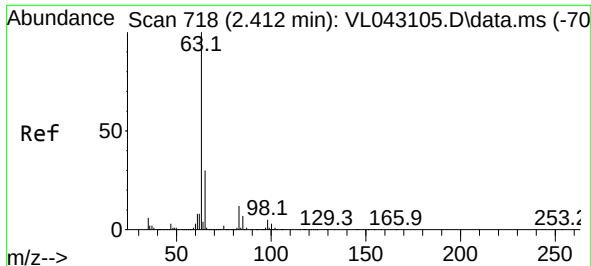
Tgt Ion: 84	Resp: 1136
Ion Ratio	Lower Upper
84 100	
49 172.8	116.6 175.0
51 34.3	34.8 52.2#
86 69.2	46.2 69.4



#22
trans-1,2-Dichloroethene
Concen: 9.579 ppbv
RT: 2.347 min Scan# 698
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 96	Resp: 50179
Ion Ratio	Lower Upper
96 100	
61 174.5	137.0 205.6
98 59.3	45.5 68.3

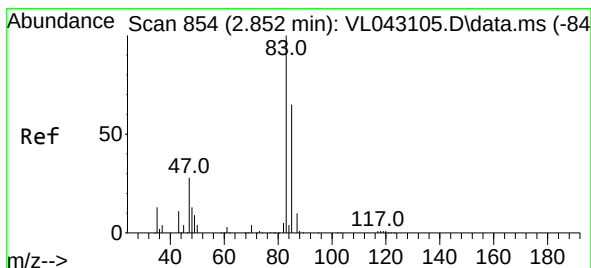
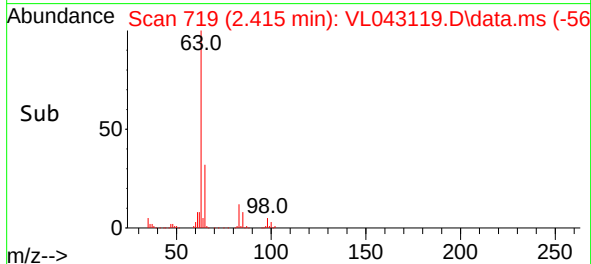
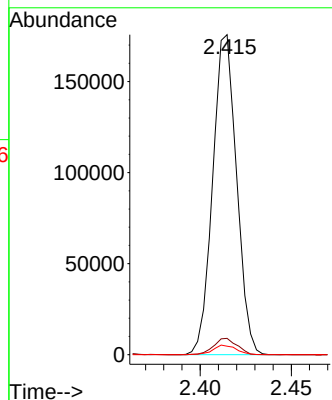
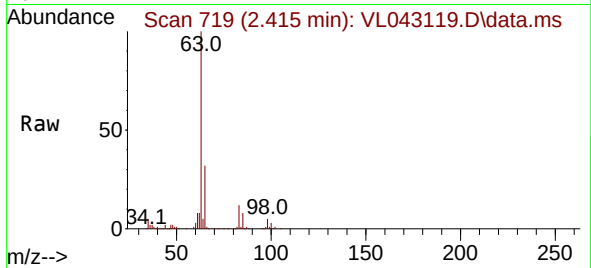




#24
1,1-Dichloroethane
Concen: 15.827 ppbv
RT: 2.415 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

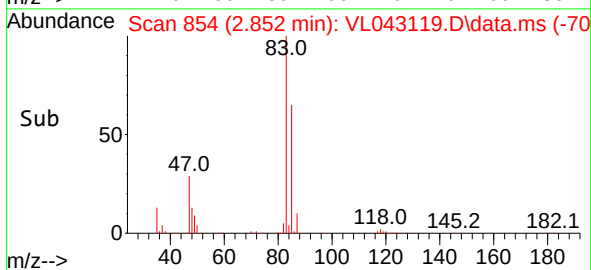
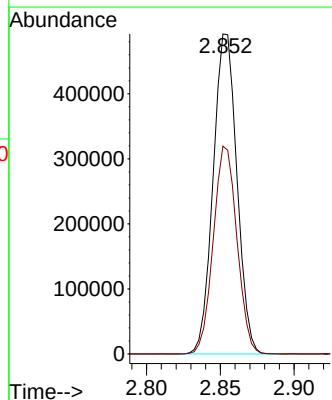
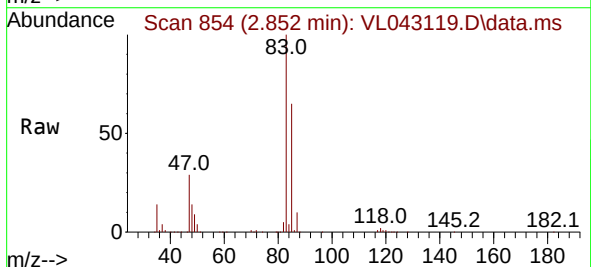
Instrument :
MSVOA_L
ClientSampleId :

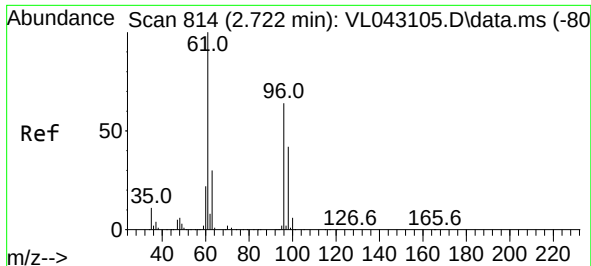
Tgt Ion: 63 Resp: 160183
Ion Ratio Lower Upper
63 100
98 5.1 2.6 7.8
100 2.6 1.5 4.4



#29
Chloroform
Concen: 27.536 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.000 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 83 Resp: 551740
Ion Ratio Lower Upper
83 100
85 64.9 51.8 77.6

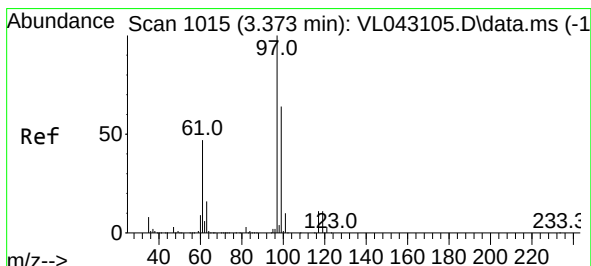
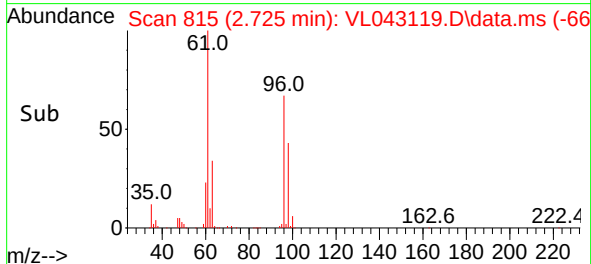
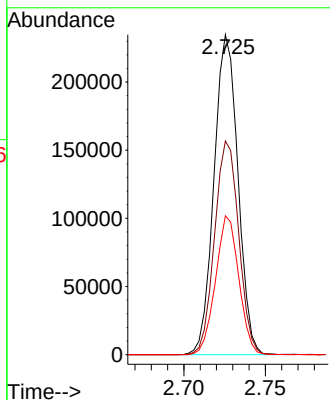
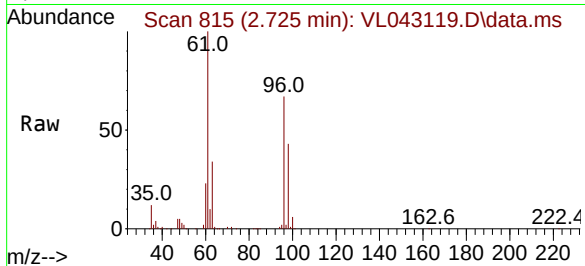




#31
 cis-1,2-Dichloroethene
 Concen: 18.135 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043119.D
 Acq: 15 Oct 2025 12:12

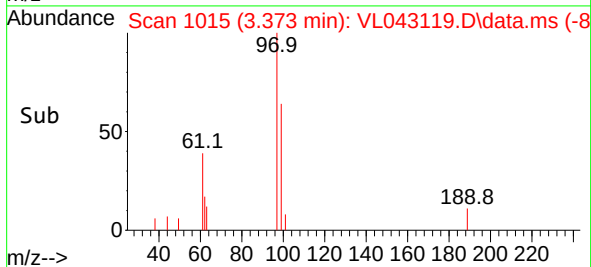
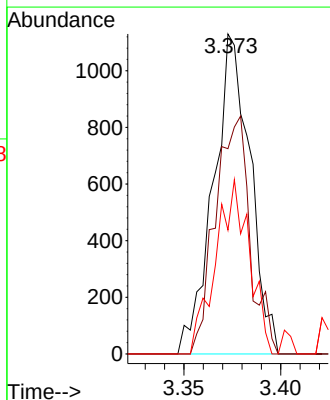
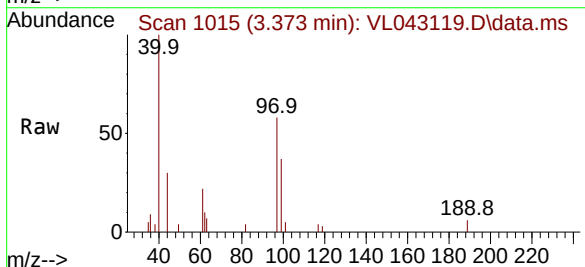
Instrument :
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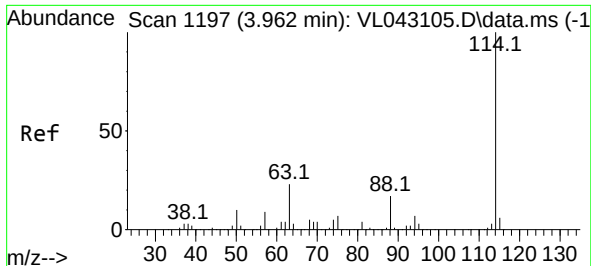
Tgt Ion: 61 Resp: 239474
 Ion Ratio Lower Upper
 61 100
 96 66.8 51.0 76.6
 98 43.4 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 0.071 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043119.D
 Acq: 15 Oct 2025 12:12

Tgt Ion: 97 Resp: 1487
 Ion Ratio Lower Upper
 97 100
 99 70.5 51.3 76.9
 61 0.0 38.4 57.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1197

Delta R.T. 0.003 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Instrument :

MSVOA_L

ClientSampleId :

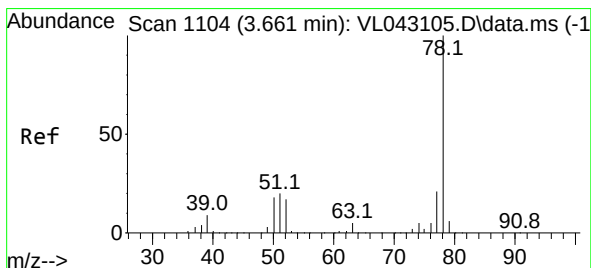
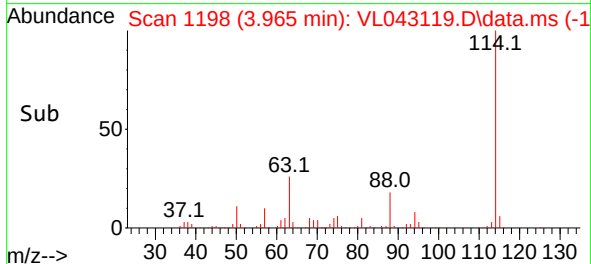
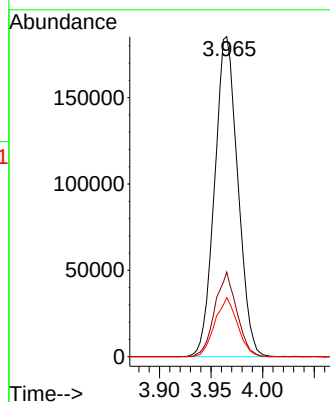
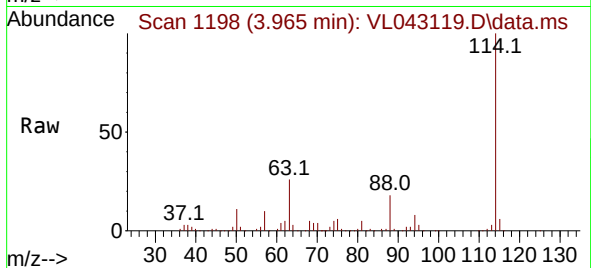
Tgt Ion:114 Resp: 289768

Ion Ratio Lower Upper

114 100

63 25.1 19.3 28.9

88 18.0 13.9 20.9



#36

Benzene

Concen: 3.915 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.003 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

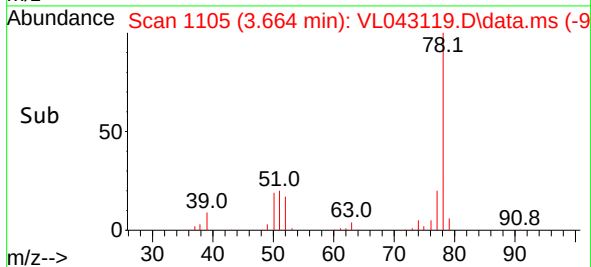
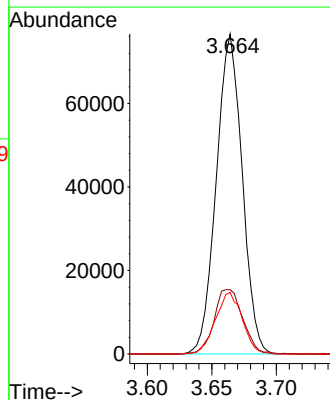
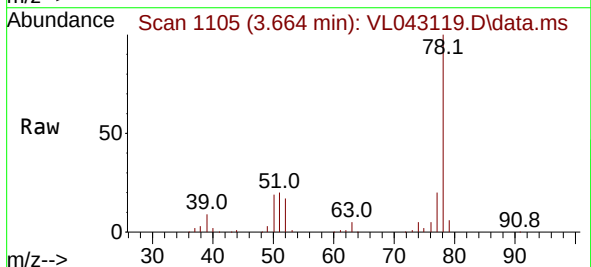
Tgt Ion: 78 Resp: 106862

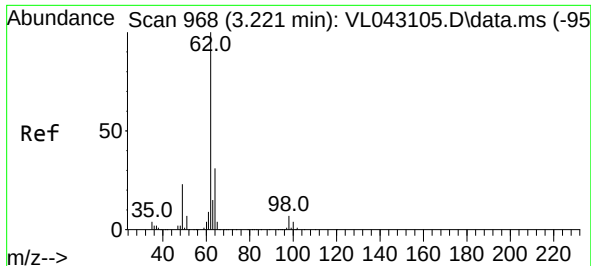
Ion Ratio Lower Upper

78 100

77 20.1 17.0 25.6

50 19.3 14.6 22.0

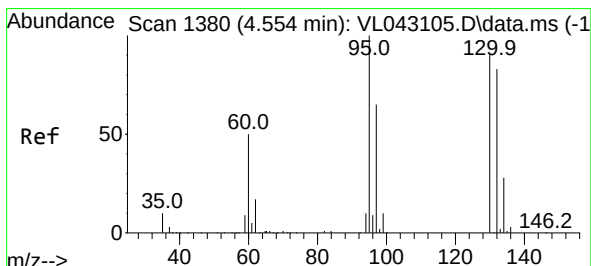
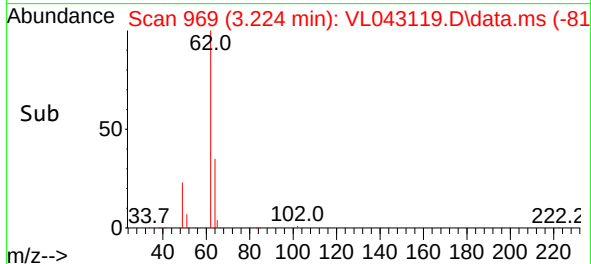
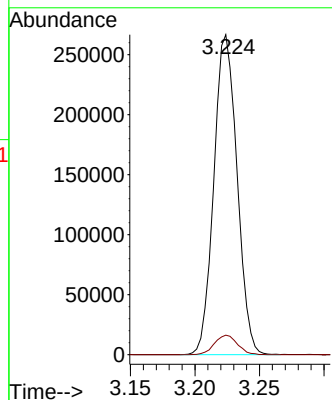
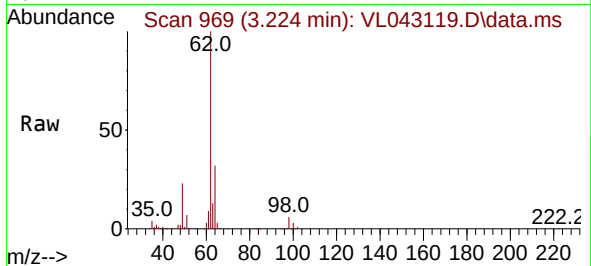




#37
1,2-Dichloroethane
Concen: 21.207 ppbv
RT: 3.224 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

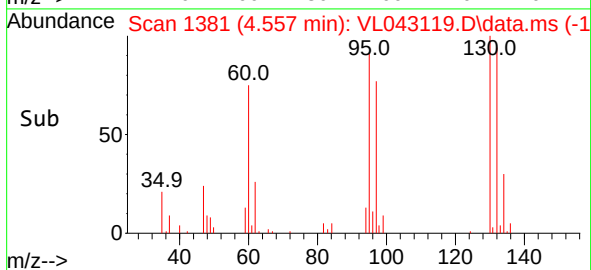
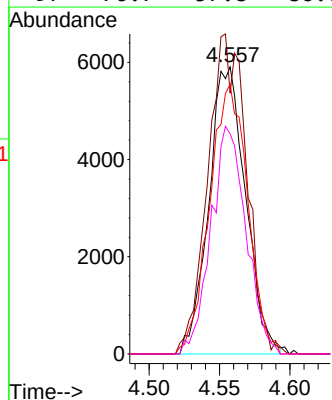
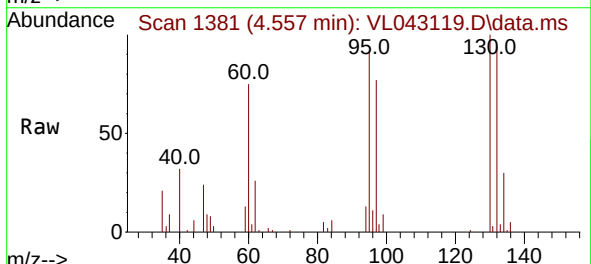
Instrument :
MSVOA_L
ClientSampleId :

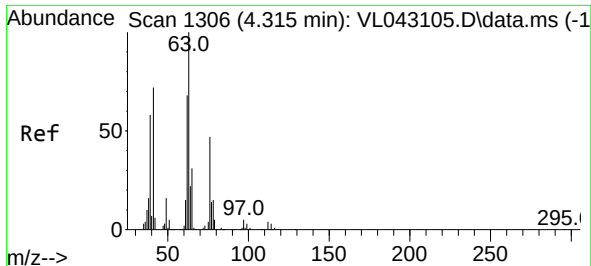
Tgt Ion: 62 Resp: 333413
Ion Ratio Lower Upper
62 100
98 6.0 5.8 8.6



#38
Trichloroethene
Concen: 0.942 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion:130 Resp: 10733
Ion Ratio Lower Upper
130 100
95 88.4 88.6 133.0#
132 94.0 73.4 110.0
97 76.7 57.8 86.6





#39

1,2-Dichloropropane

Concen: 15.649 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Instrument :

MSVOA_L

ClientSampleId :

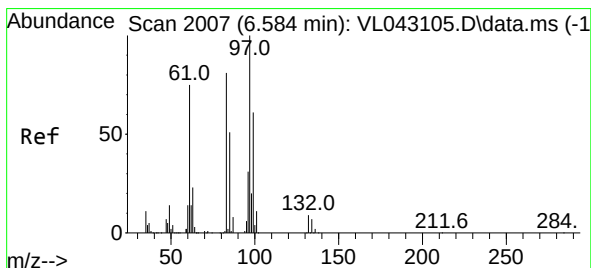
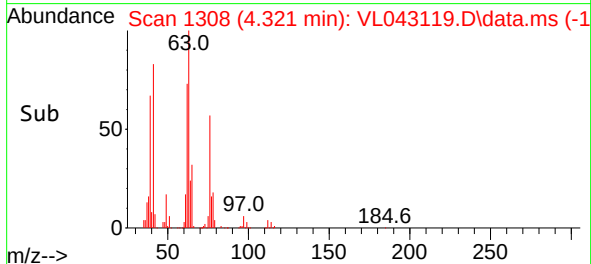
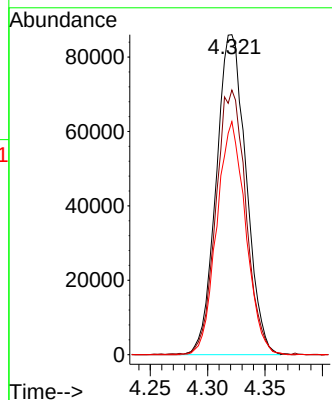
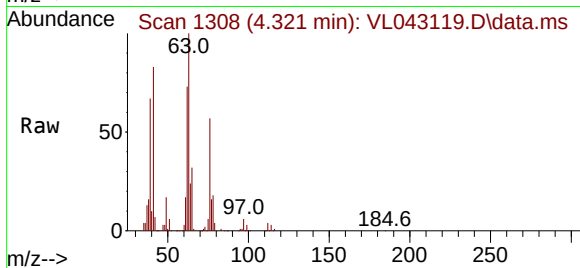
Tgt Ion: 63 Resp: 156136

Ion Ratio Lower Upper

63 100

41 82.4 58.0 87.0

62 72.7 54.7 82.1



#47

1,1,2-Trichloroethane

Concen: 13.412 ppbv

RT: 6.590 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Tgt Ion: 97 Resp: 144510

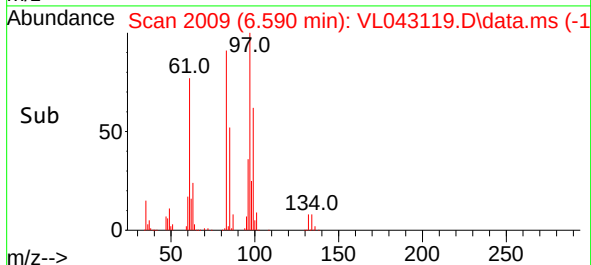
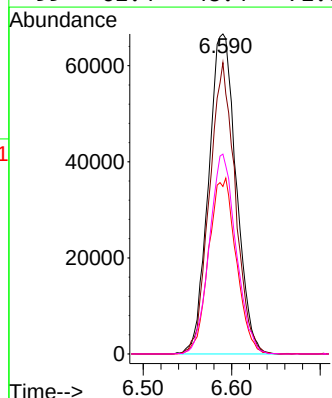
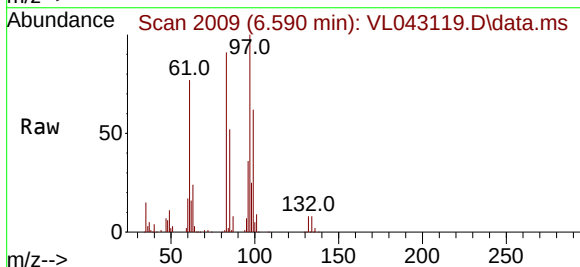
Ion Ratio Lower Upper

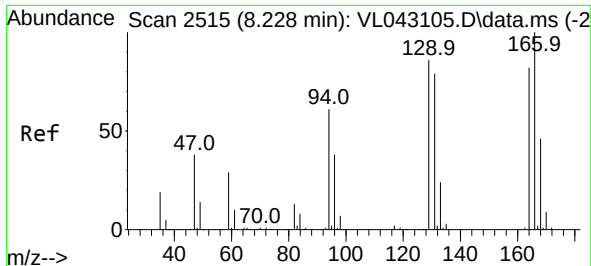
97 100

83 91.1 64.6 96.8

85 52.4 40.6 60.8

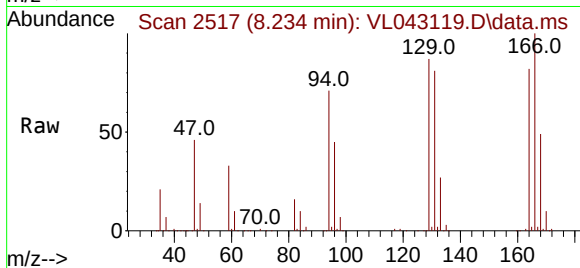
99 62.4 48.4 72.6



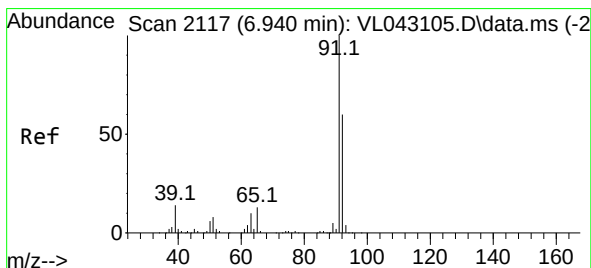
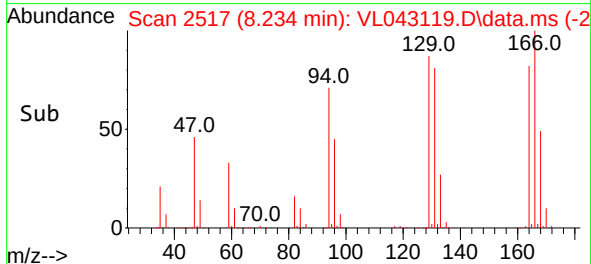
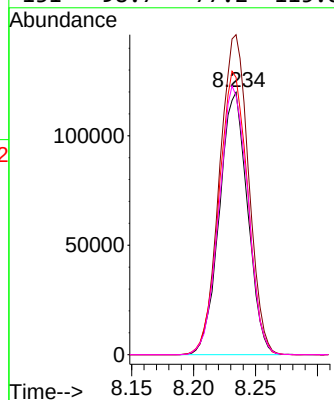


#52
Tetrachloroethene
Concen: 19.290 ppbv
RT: 8.234 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Instrument :
MSVOA_L
ClientSampleId :

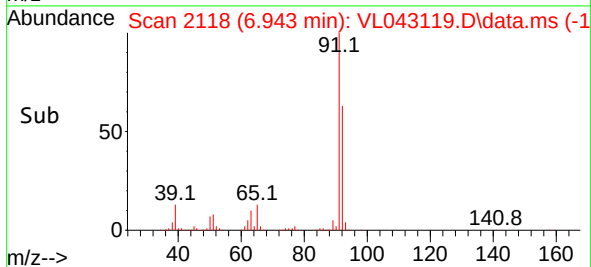
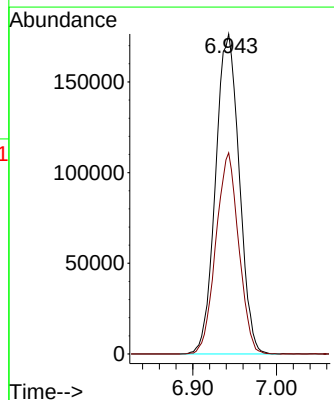
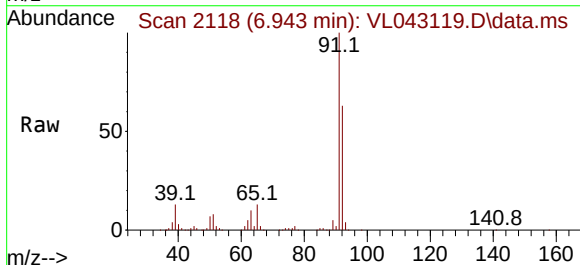


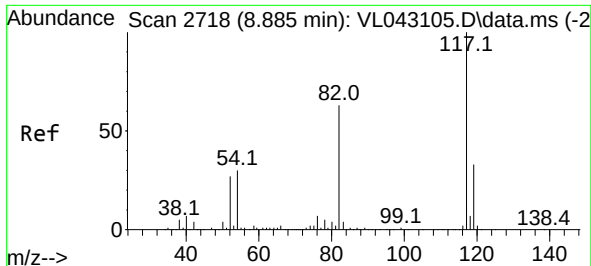
Tgt Ion:164 Resp: 189850
Ion Ratio Lower Upper
164 100
166 122.0 97.6 146.4
129 105.6 84.5 126.7
131 98.7 77.2 115.8



#53
Toluene
Concen: 10.693 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 91 Resp: 346344
Ion Ratio Lower Upper
91 100
92 60.6 48.8 73.2

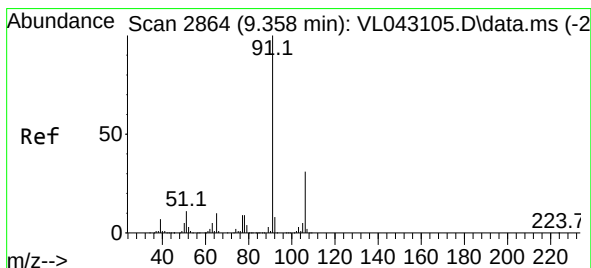
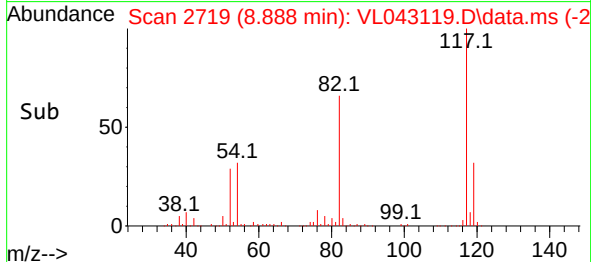
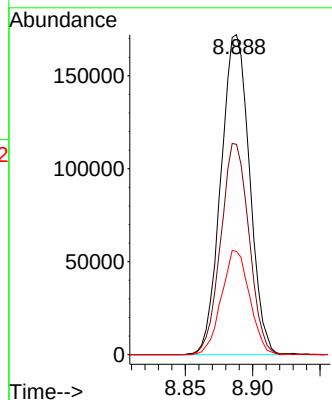
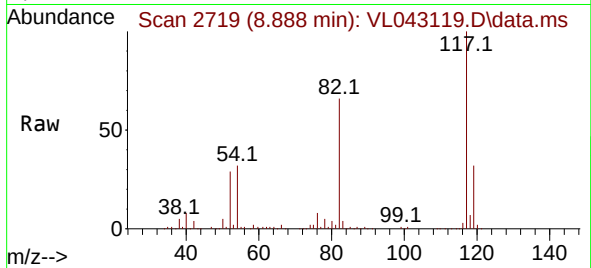




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

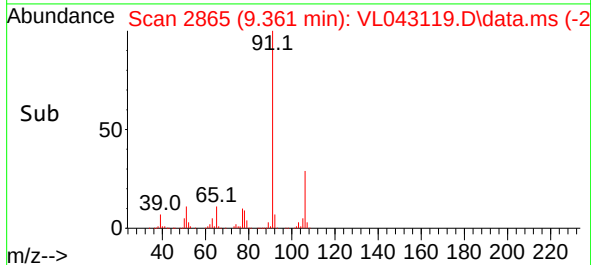
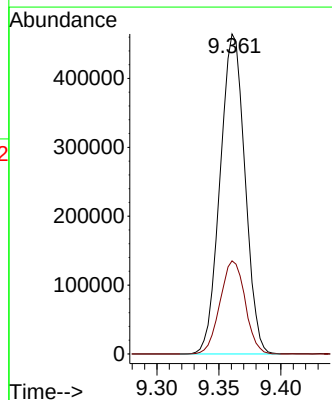
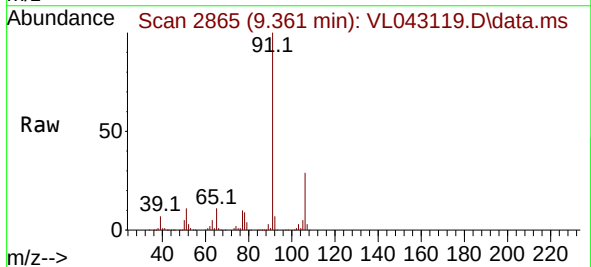
Instrument :
MSVOA_L
ClientSampleId :

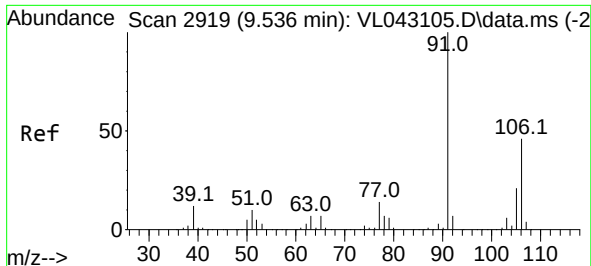
Tgt Ion:117 Resp: 254747
Ion Ratio Lower Upper
117 100
82 65.1 53.8 80.8
119 32.1 25.4 38.0



#58
Ethyl Benzene
Concen: 14.832 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 91 Resp: 648462
Ion Ratio Lower Upper
91 100
106 29.1 24.8 37.2

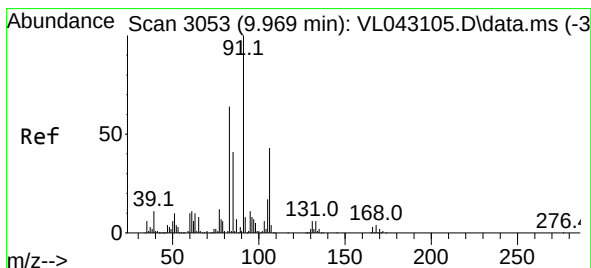
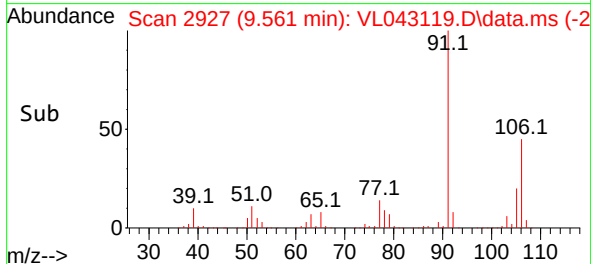
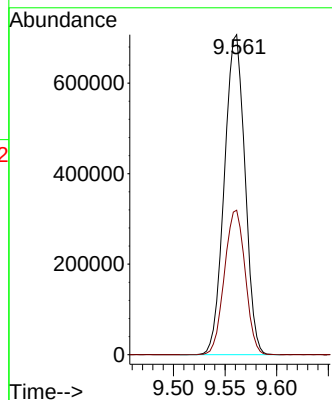
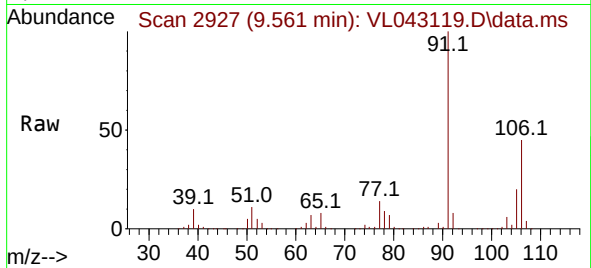




#59
m/p-Xylene
Concen: 28.152 ppbv
RT: 9.561 min Scan# 2919
Delta R.T. 0.026 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

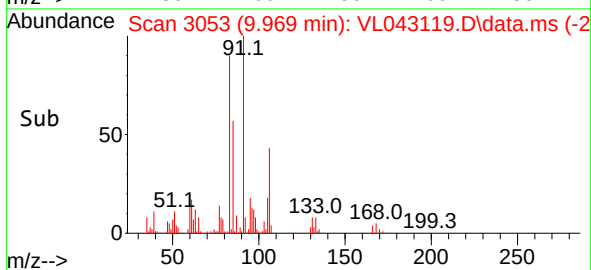
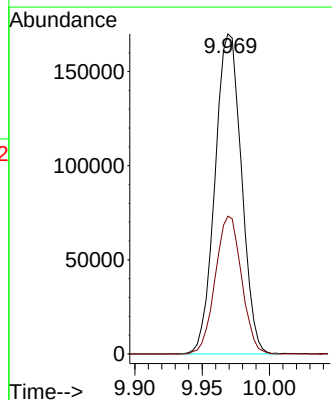
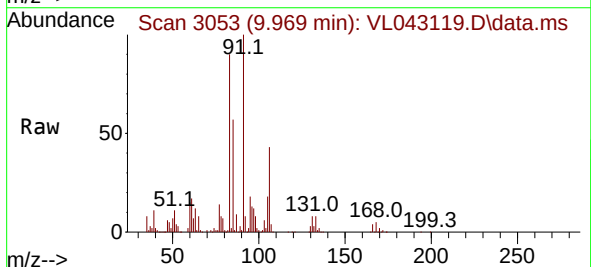
Instrument :
MSVOA_1
ClientSampleId :

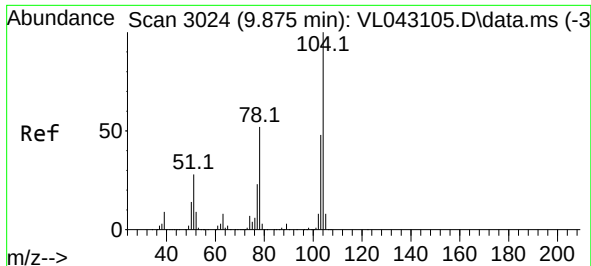
Tgt Ion: 91 Resp: 981688
Ion Ratio Lower Upper
91 100
106 45.6 38.0 57.0



#60
o-Xylene
Concen: 6.749 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 91 Resp: 232435
Ion Ratio Lower Upper
91 100
106 42.7 21.9 65.8

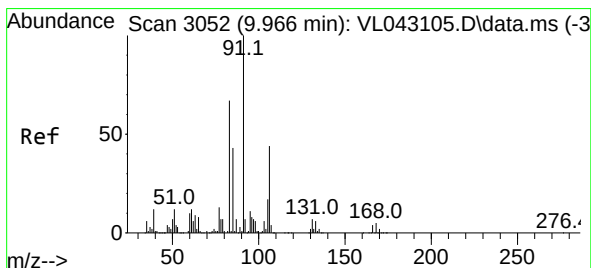
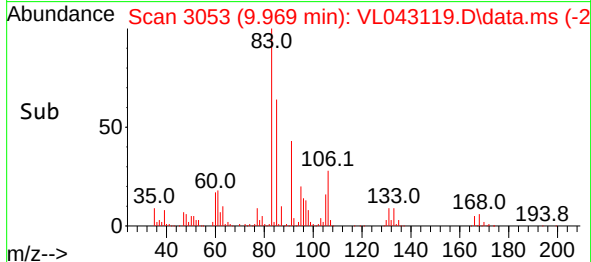
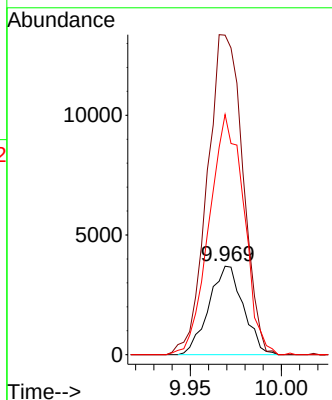
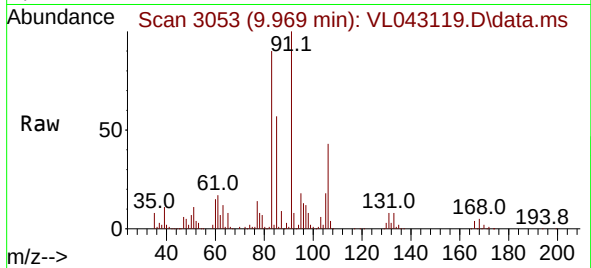




#61
Styrene
Concen: 0.312 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.094 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

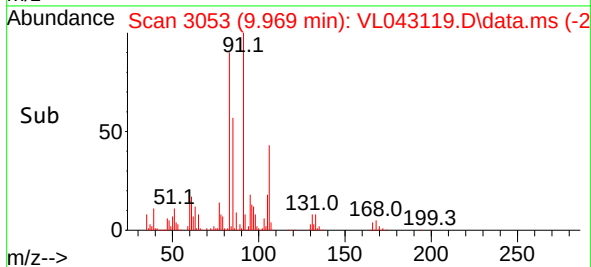
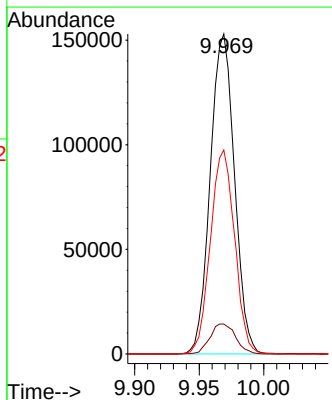
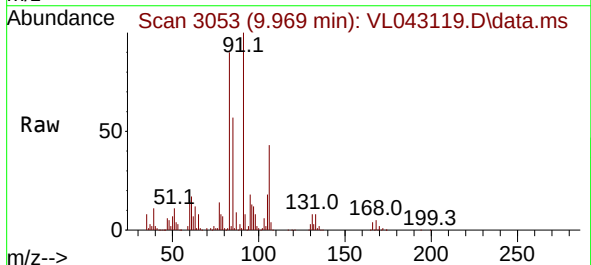
Instrument :
MSVOA_L
ClientSampleId :

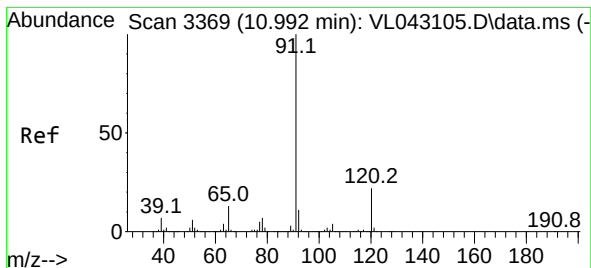
Tgt Ion:104 Resp: 4853
Ion Ratio Lower Upper
104 100
78 374.3 40.2 60.2#
103 274.4 36.9 55.3#



#63
1,1,2,2-Tetrachloroethane
Concen: 8.654 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 83 Resp: 199571
Ion Ratio Lower Upper
83 100
131 9.9 4.8 14.3
85 63.6 32.0 96.0





#64

n-propylbenzene

Concen: 31.530 ppbv

RT: 11.209 min Scan# 34

Delta R.T. 0.217 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Instrument :

MSVOA_L

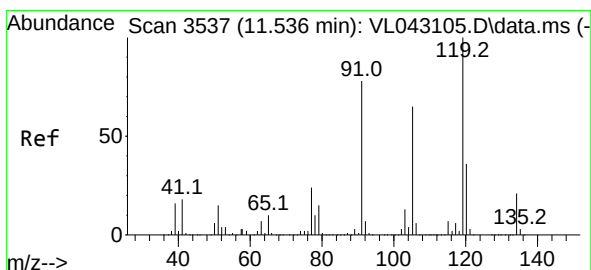
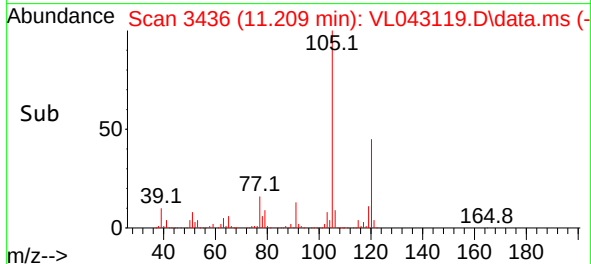
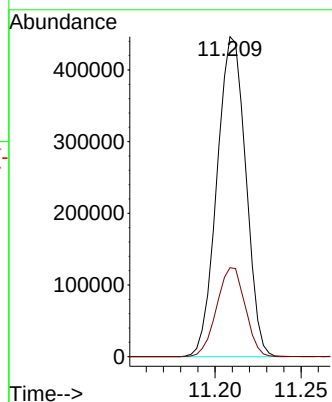
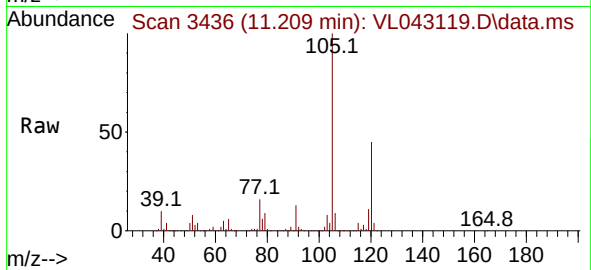
ClientSampleId :

Tgt Ion:120 Resp: 519500

Ion Ratio Lower Upper

120 100

91 27.5 361.6 542.4#



#65

tert-Butylbenzene

Concen: 1.429 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.006 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

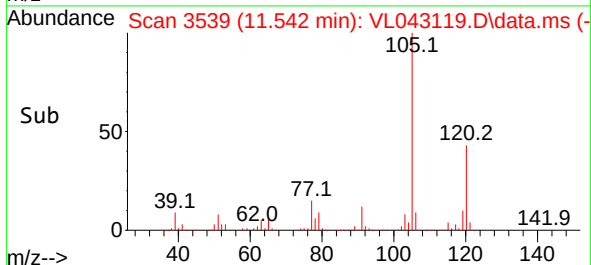
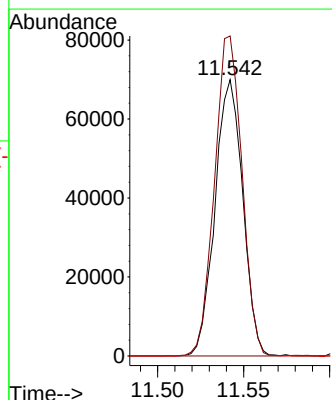
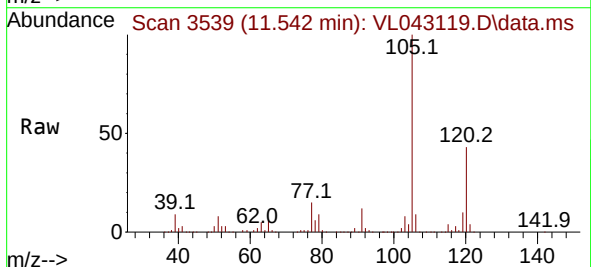
Tgt Ion:119 Resp: 78512

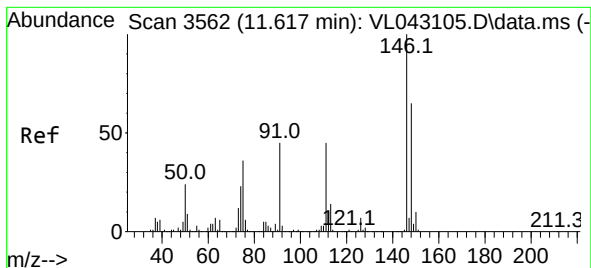
Ion Ratio Lower Upper

119 100

91 115.1 63.4 95.0#

134 0.0 17.3 25.9#

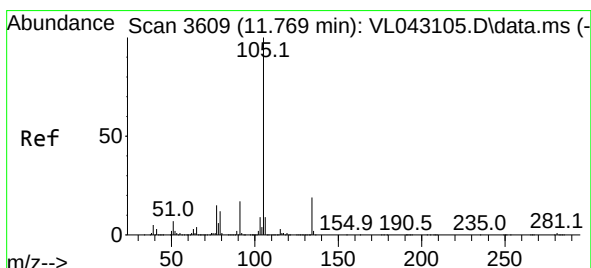
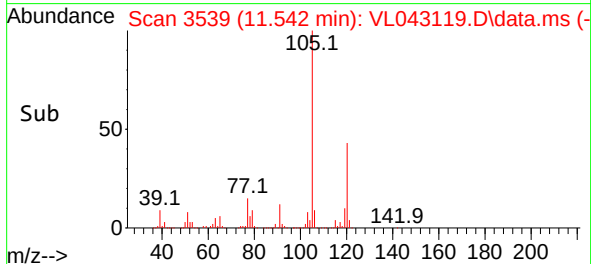
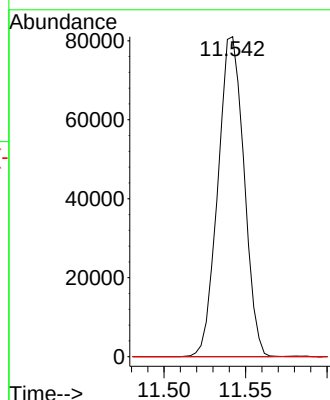
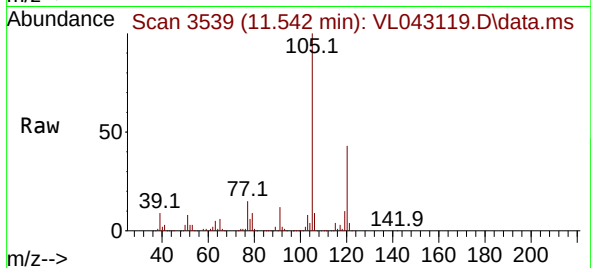




#66
Benzyl Chloride
Concen: 14.758 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.075 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

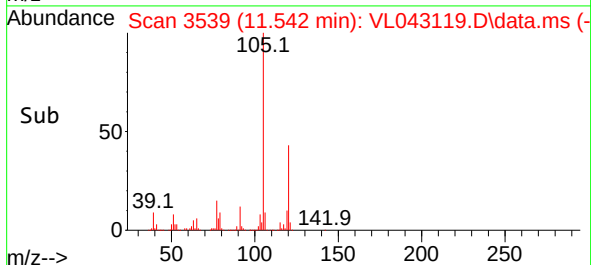
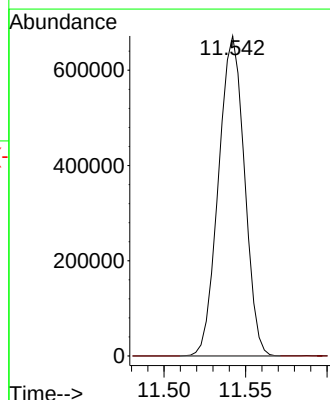
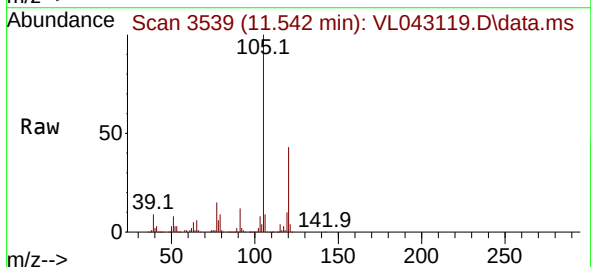
Instrument :
MSVOA_L
ClientSampleId :

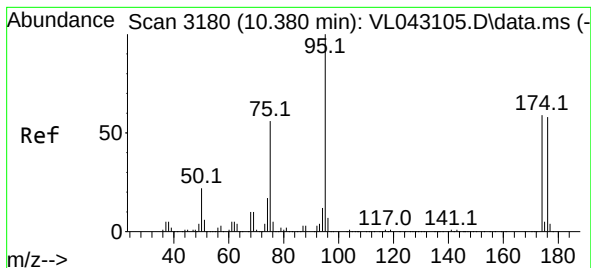
Tgt Ion: 91 Resp: 90270
Ion Ratio Lower Upper
91 100
126 0.0 14.6 22.0#
128 0.0 4.6 6.8#



#67
sec-Butylbenzene
Concen: 9.535 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.227 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 105 Resp: 743722
Ion Ratio Lower Upper
105 100
134 0.0 15.5 23.3#

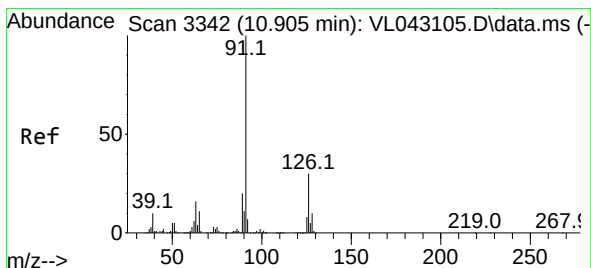
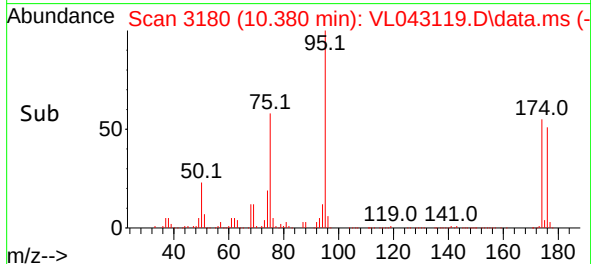
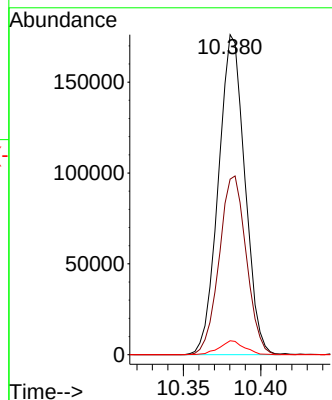
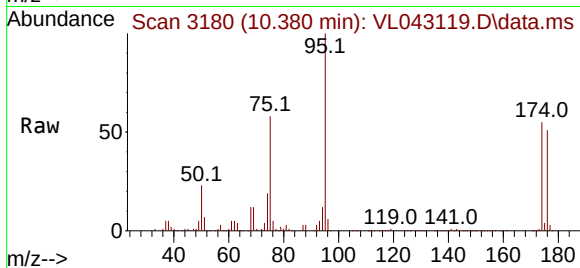




#68
1-Bromo-4-Fluorobenzene
Concen: 10.573 ppbv
RT: 10.380 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

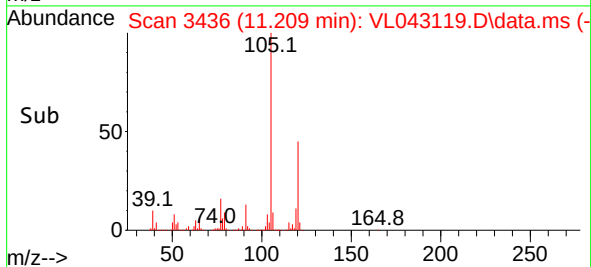
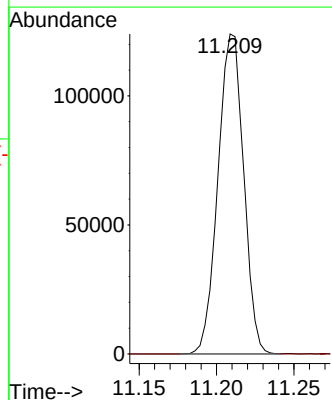
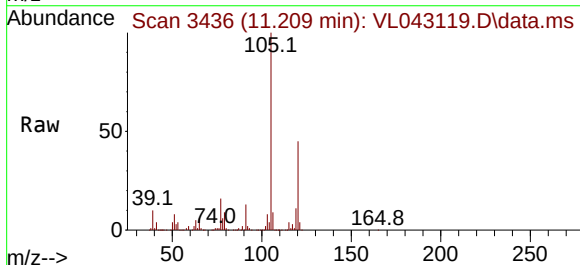
Instrument :
MSVOA_1
ClientSampleId :

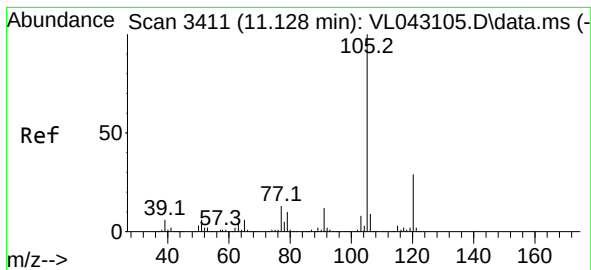
Tgt Ion: 95 Resp: 209345
Ion Ratio Lower Upper
95 100
174 57.3 48.3 72.5
175 4.1 3.8 5.8



#71
2-Chlorotoluene
Concen: 3.012 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.304 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 91 Resp: 142951
Ion Ratio Lower Upper
91 100
126 0.0 12.0 48.0#





#72

4-Ethyltoluene

Concen: 26.890 ppbv

RT: 11.209 min Scan# 3411

Delta R.T. 0.081 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105 Resp: 1138772

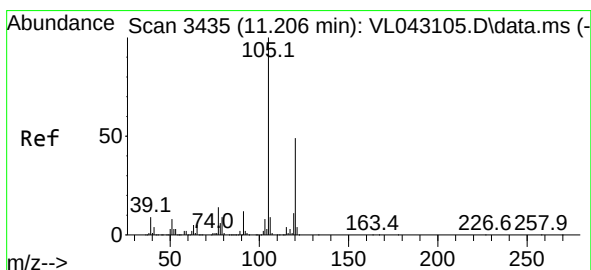
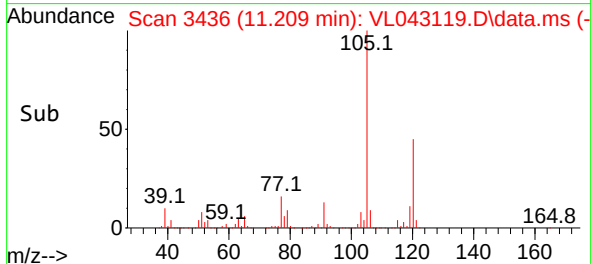
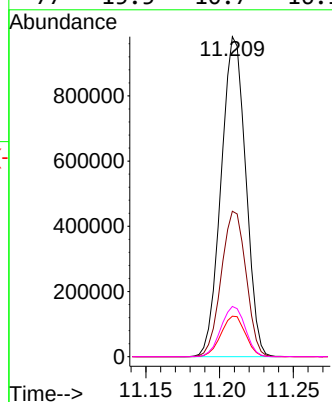
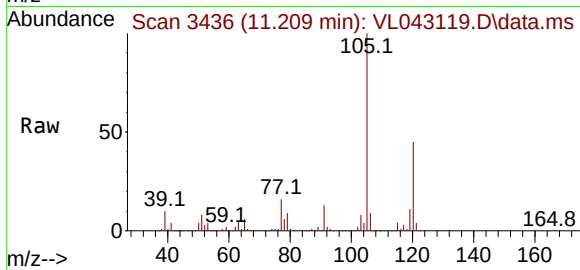
Ion Ratio Lower Upper

105 100

120 45.7 24.2 36.4#

91 12.6 10.0 15.0

77 15.5 10.7 16.1



#73

1,3,5-Trimethylbenzene

Concen: 32.606 ppbv

RT: 11.209 min Scan# 3436

Delta R.T. 0.003 min

Lab File: VL043119.D

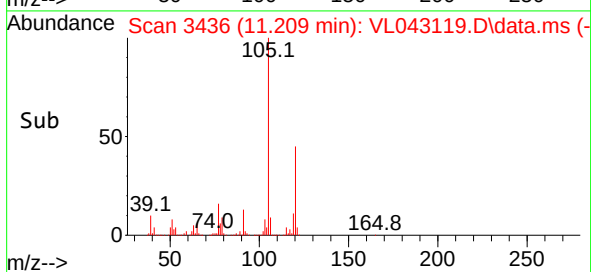
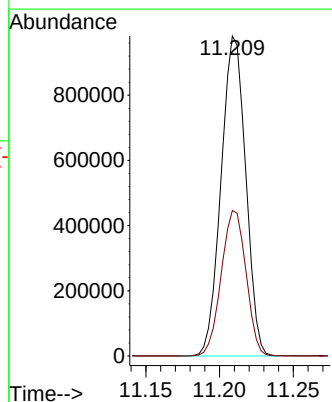
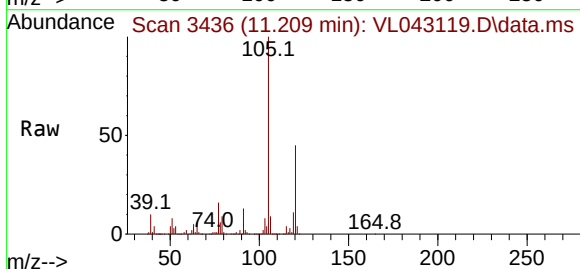
Acq: 15 Oct 2025 12:12

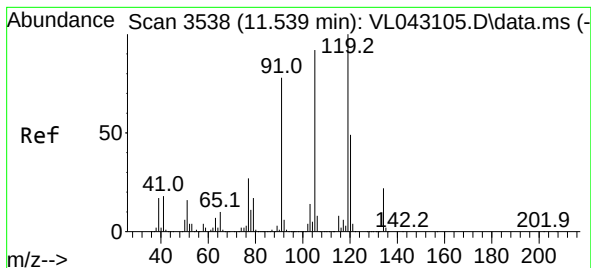
Tgt Ion:105 Resp: 1138772

Ion Ratio Lower Upper

105 100

120 45.5 39.0 58.6





#74

1,2,4-Trimethylbenzene

Concen: 19.029 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.003 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105 Resp: 743722

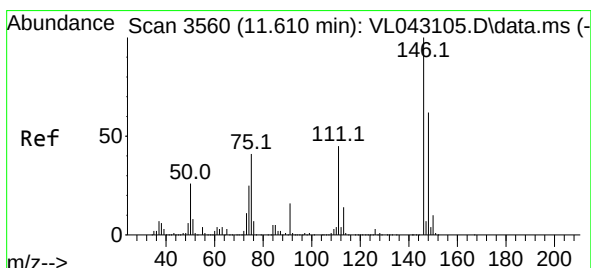
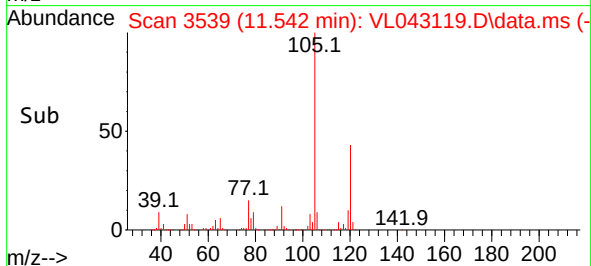
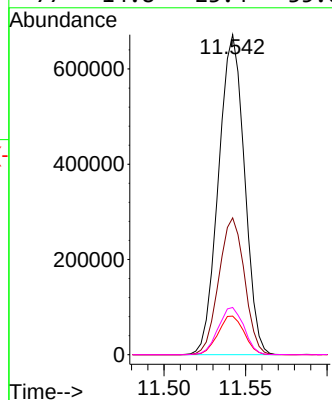
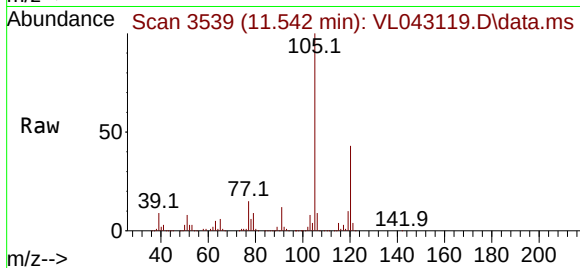
Ion Ratio Lower Upper

105 100

120 42.7 42.8 64.2#

91 12.1 68.3 102.5#

77 14.8 23.4 35.0#



#75

1,3-Dichlorobenzene

Concen: 10.764 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.003 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

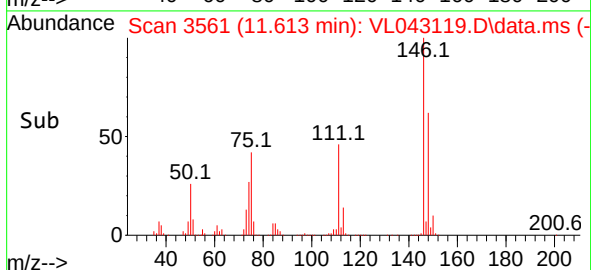
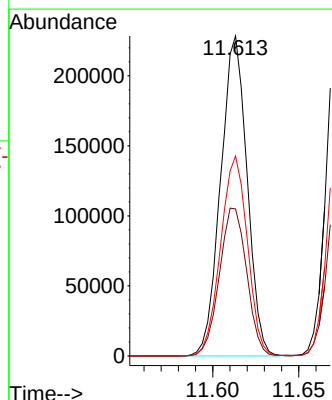
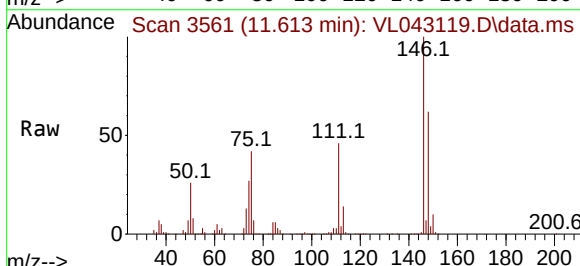
Tgt Ion:146 Resp: 244003

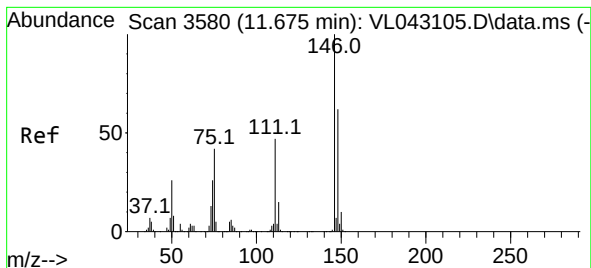
Ion Ratio Lower Upper

146 100

111 47.8 23.3 69.9

148 63.3 31.6 95.0





#76

1,4-Dichlorobenzene

Concen: 17.393 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.003 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Instrument :

MSVOA_L

ClientSampleId :

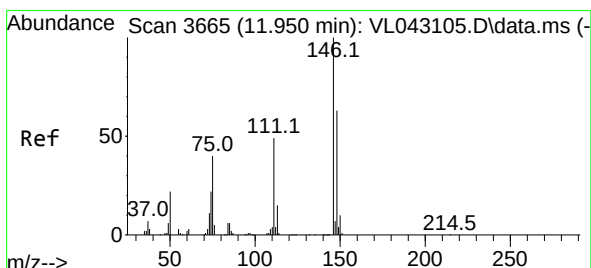
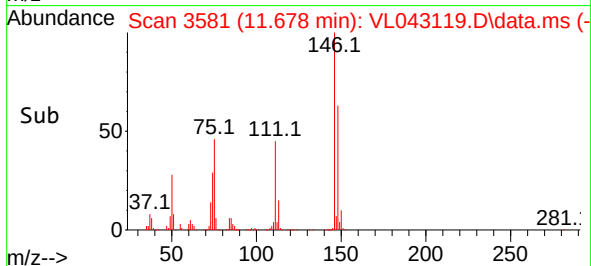
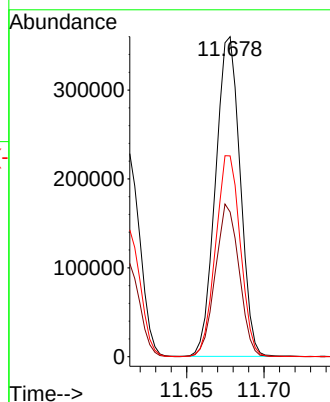
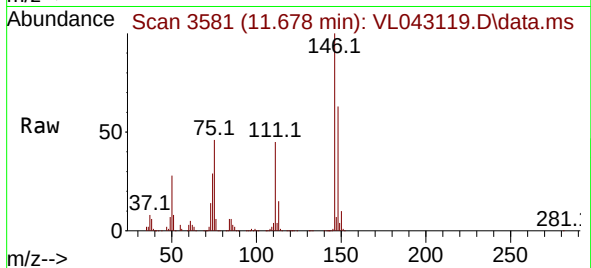
Tgt Ion:146 Resp: 397546

Ion Ratio Lower Upper

146 100

111 46.3 22.4 67.0

148 63.3 31.6 94.7



#77

1,2-Dichlorobenzene

Concen: 18.129 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. -0.272 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Tgt Ion:146 Resp: 397546

Ion Ratio Lower Upper

146 100

111 46.3 24.0 72.0

148 63.2 31.1 93.3

