

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX090225\
 Data File : VX047578.D
 Acq On : 02 Sep 2025 13:03
 Operator : JC/MD
 Sample : Q2996-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CONTAINMENT-A

Quant Time: Sep 03 02:15:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X082825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 29 02:31:18 2025
 Response via : Initial Calibration

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

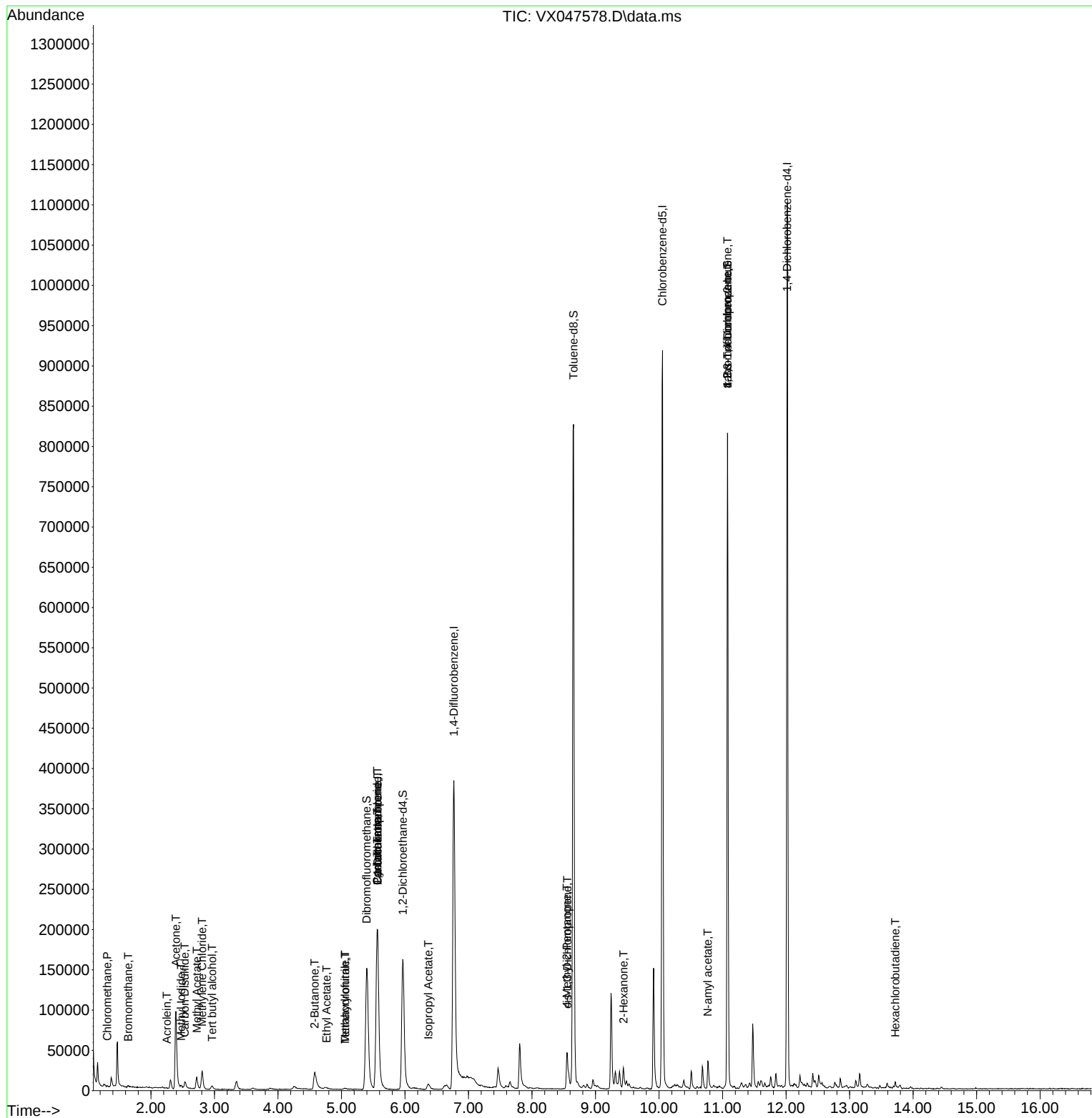
Internal Standards						
1) Pentafluorobenzene	5.568	168	204511	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	411758	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	418229	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	217352	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	170317	54.231	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 108.460%		
35) Dibromofluoromethane	5.397	113	143435	50.754	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.500%		
50) Toluene-d8	8.653	98	511869	51.674	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 103.340%		
62) 4-Bromofluorobenzene	11.079	95	218632	58.751	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 117.500%		
Target Compounds						
					Qvalue	
3) Chloromethane	1.313	50	751	0.307	ug/l	99
5) Bromomethane	1.642	94	986	0.793	ug/l #	76
10) Methyl Iodide	2.477	142	4930	1.223	ug/l	89
11) Tert butyl alcohol	2.965	59	4286	14.848	ug/l #	85
13) Acrolein	2.252	56	323	0.558	ug/l #	3
16) Acetone	2.392	43	129024	103.734	ug/l	96
17) Carbon Disulfide	2.532	76	3714	0.484	ug/l #	95
18) Methyl Acetate	2.721	43	19832	6.467	ug/l	99
20) Methylene Chloride	2.806	84	10552	3.334	ug/l	97
25) 2-Butanone	4.574	43	47165	28.814	ug/l #	89
29) Tetrahydrofuran	5.056	42	877	0.863	ug/l	96
31) Cyclohexane	5.562	56	4774	1.081	ug/l #	31
36) 1,1-Dichloropropene	5.568	75	17017	4.231	ug/l #	50
37) Ethyl Acetate	4.763	43	5660	1.428	ug/l #	76
38) Carbon Tetrachloride	5.562	117	20925	4.689	ug/l #	16
41) Methacrylonitrile	5.056	41	735	0.391	ug/l #	22
43) Isopropyl Acetate	6.367	43	5851	0.919	ug/l #	85
51) 4-Methyl-2-Pentanone	8.549	43	25534	6.785	ug/l #	37
54) cis-1,3-Dichloropropene	8.555	75	8085	1.663	ug/l #	51
58) 2-Chloroethyl Vinyl ether	7.988	63	23	Below Cal	#	47
59) 2-Hexanone	9.439	43	17275	6.719	ug/l	98
74) N-amyl acetate	10.768	43	22230	3.366	ug/l #	47
76) 1,2,3-Trichloropropane	11.079	75	111209	28.668	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	111209	101.503	ug/l #	7
94) Hexachlorobutadiene	13.719	225	950	0.600	ug/l	87

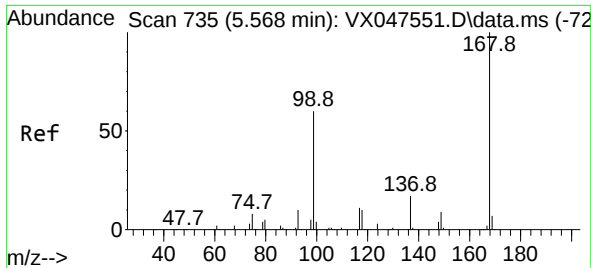
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampleId :
CONTAINMENT-A

Quant Time: Sep 03 02:15:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X082825W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 29 02:31:18 2025
Response via : Initial Calibration

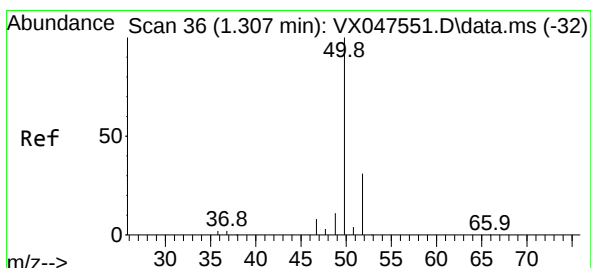
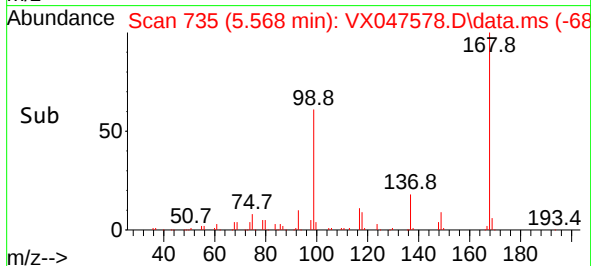
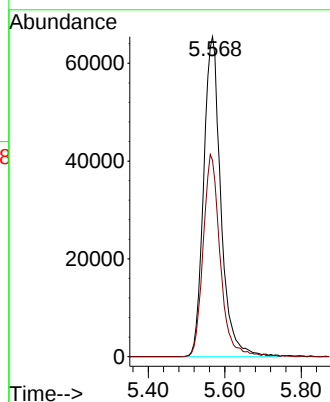
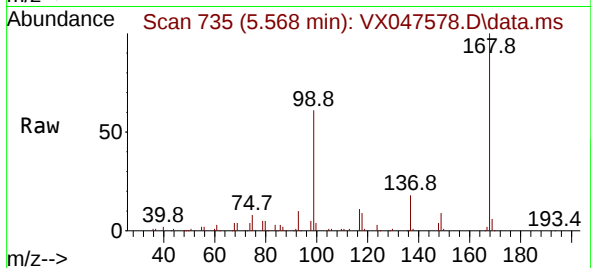




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

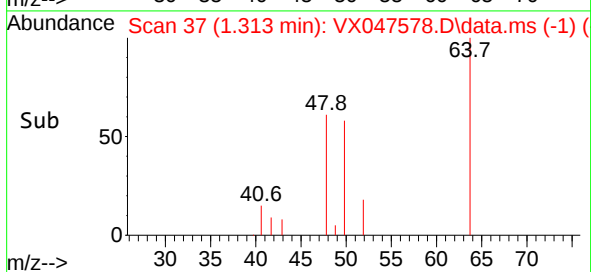
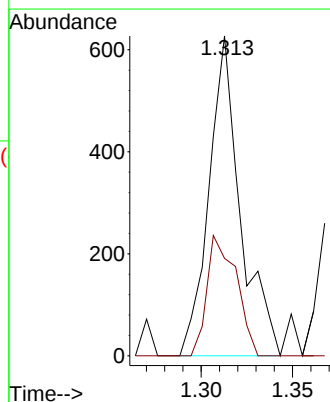
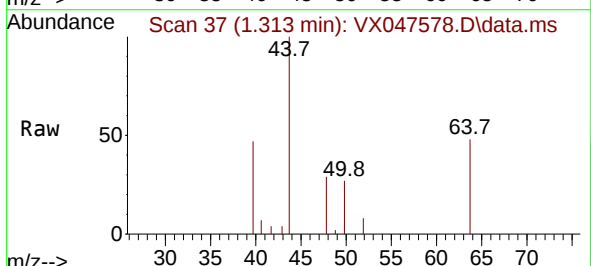
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-A

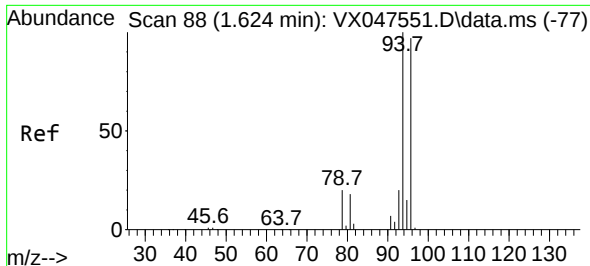
Tgt Ion:168 Resp: 204511
Ion Ratio Lower Upper
168 100
99 61.3 48.9 73.3



#3
Chloromethane
Concen: 0.307 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.006 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

Tgt Ion: 50 Resp: 751
Ion Ratio Lower Upper
50 100
52 30.5 24.6 37.0

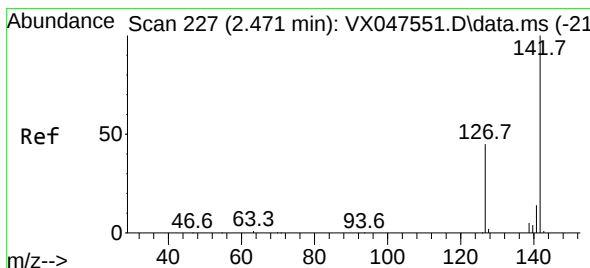
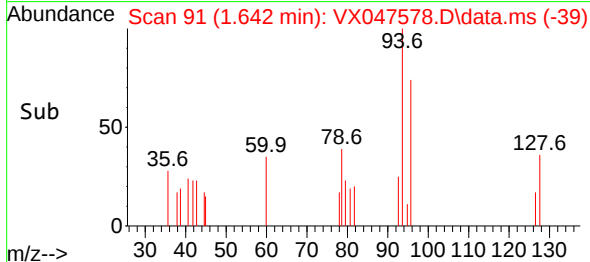
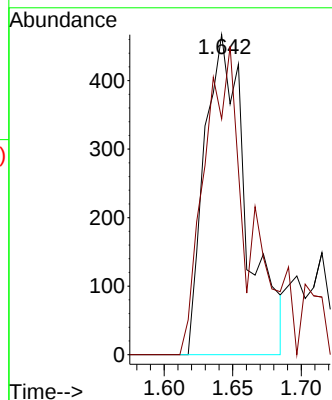
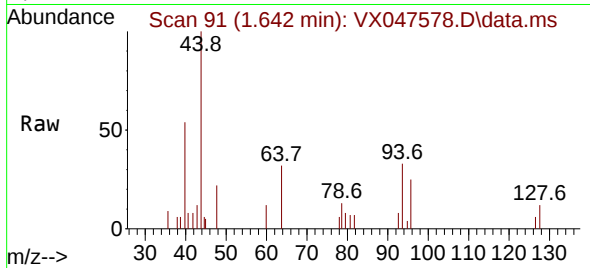




#5
Bromomethane
Concen: 0.793 ug/l
RT: 1.642 min Scan# 91
Delta R.T. 0.018 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

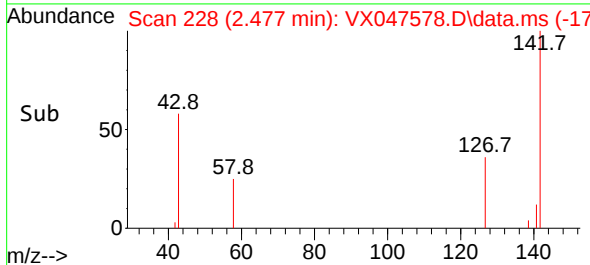
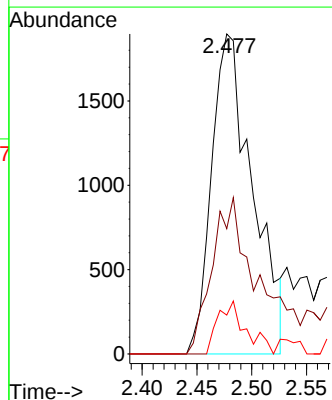
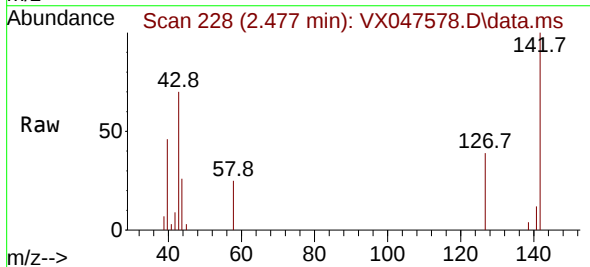
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-A

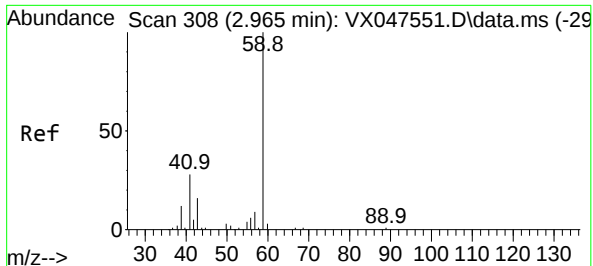
Tgt Ion: 94 Resp: 986
Ion Ratio Lower Upper
94 100
96 73.7 77.7 116.5#



#10
Methyl Iodide
Concen: 1.223 ug/l
RT: 2.477 min Scan# 228
Delta R.T. 0.006 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

Tgt Ion:142 Resp: 4930
Ion Ratio Lower Upper
142 100
127 55.4 37.6 56.4
141 11.2 10.6 16.0

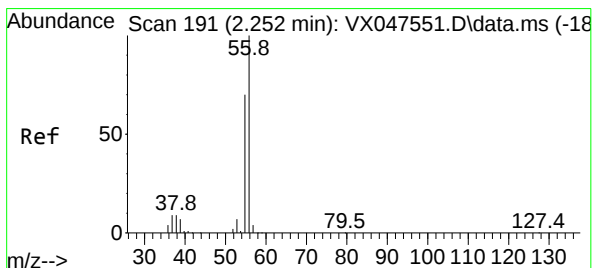
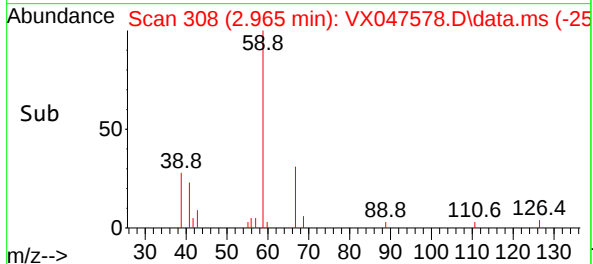
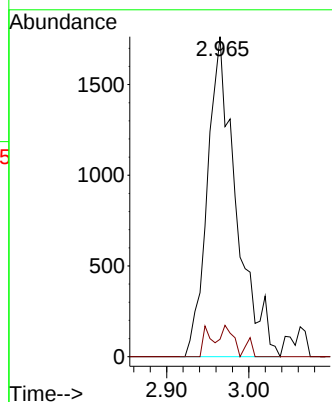
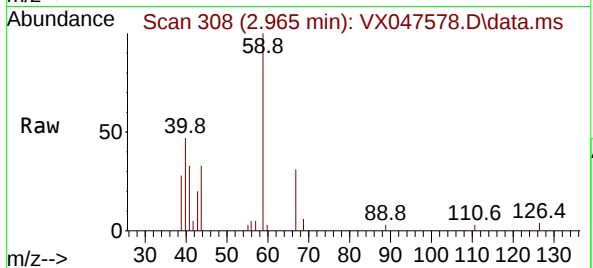




#11
Tert butyl alcohol
Concen: 14.848 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.000 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

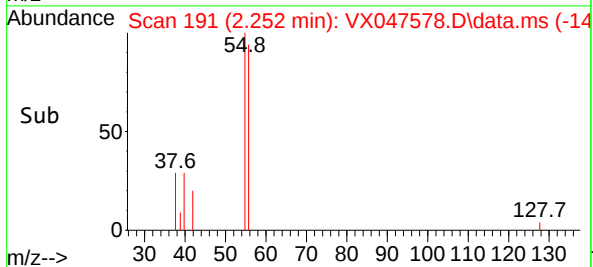
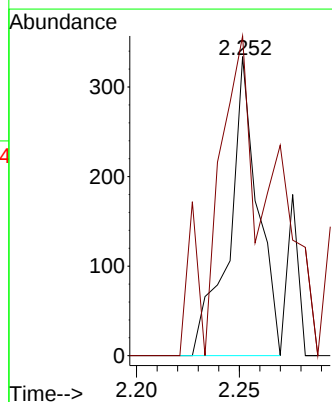
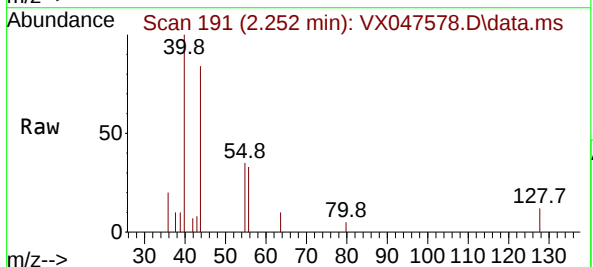
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-A

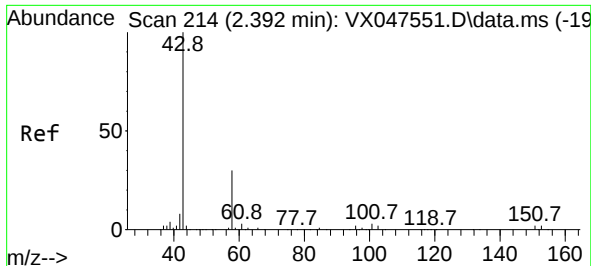
Tgt Ion: 59 Resp: 4286
Ion Ratio Lower Upper
59 100
57 4.3 7.9 11.9#



#13
Acrolein
Concen: 0.558 ug/l
RT: 2.252 min Scan# 191
Delta R.T. -0.000 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

Tgt Ion: 56 Resp: 323
Ion Ratio Lower Upper
56 100
55 151.4 57.0 85.6#

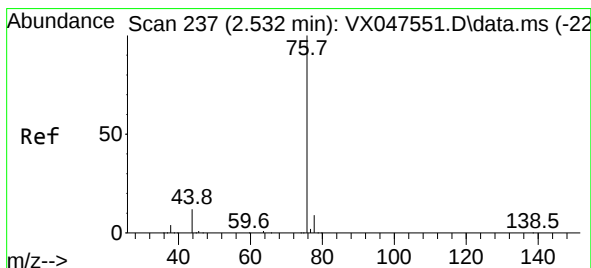
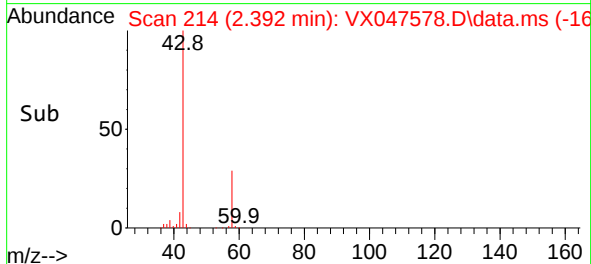
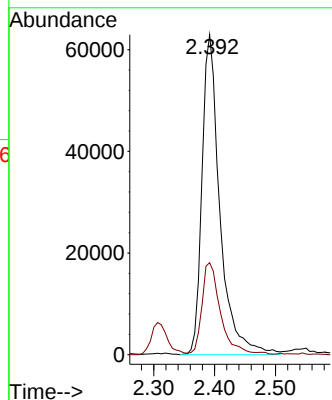
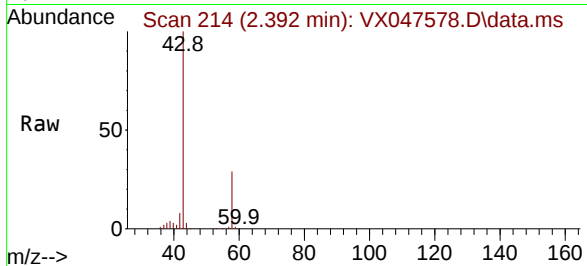




#16
Acetone
Concen: 103.734 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

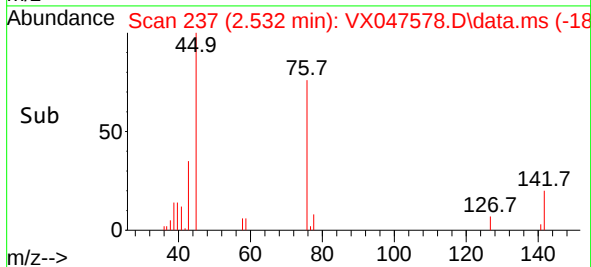
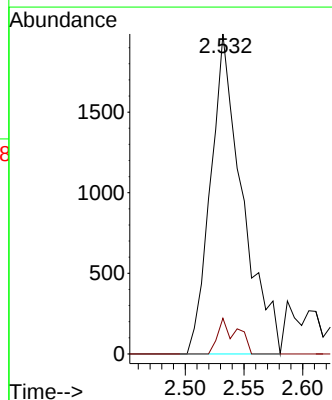
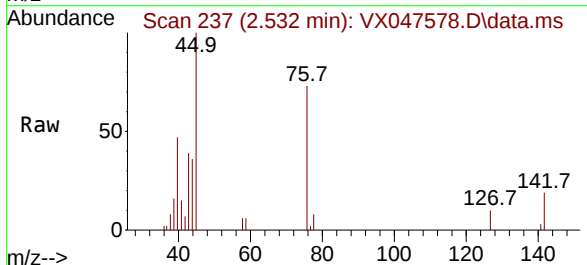
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-A

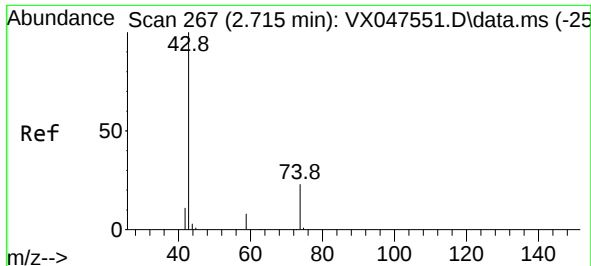
Tgt Ion: 43 Resp: 129024
Ion Ratio Lower Upper
43 100
58 28.3 24.2 36.2



#17
Carbon Disulfide
Concen: 0.484 ug/l
RT: 2.532 min Scan# 237
Delta R.T. -0.000 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

Tgt Ion: 76 Resp: 3714
Ion Ratio Lower Upper
76 100
78 11.1 7.4 11.0#

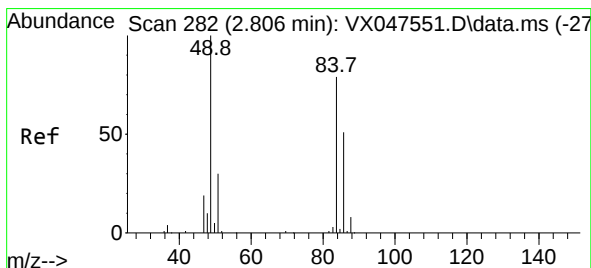
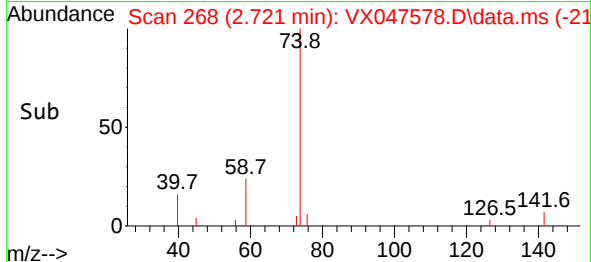
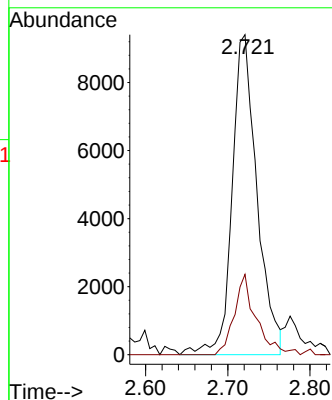
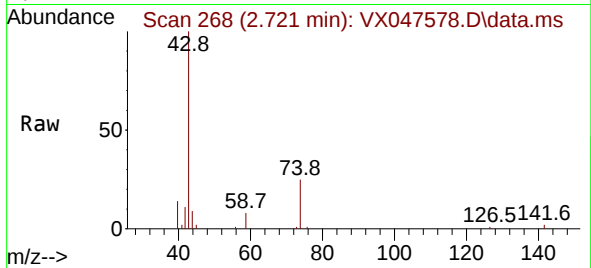




#18
Methyl Acetate
Concen: 6.467 ug/l
RT: 2.721 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

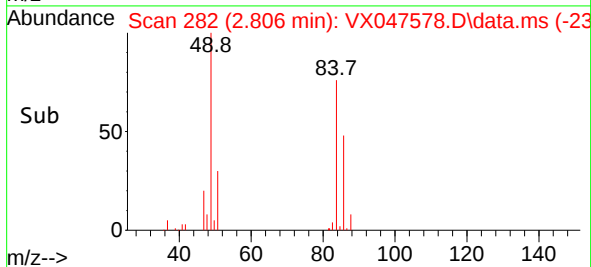
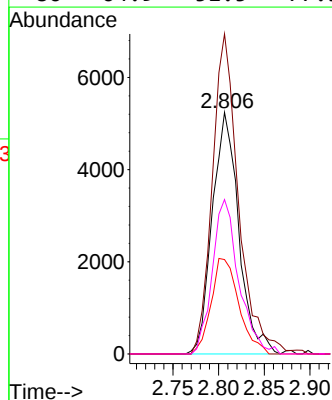
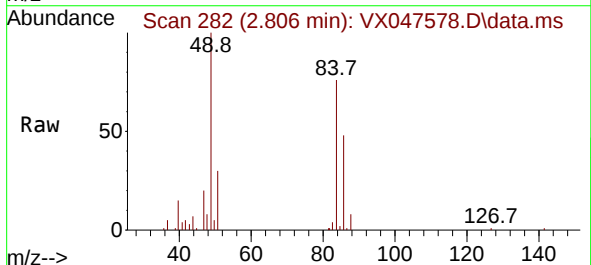
Instrument :
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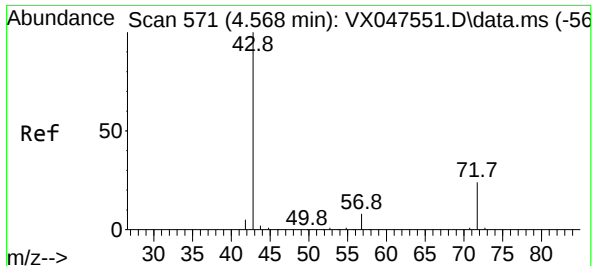
Tgt Ion: 43 Resp: 19832
Ion Ratio Lower Upper
43 100
74 22.0 17.8 26.8



#20
Methylene Chloride
Concen: 3.334 ug/l
RT: 2.806 min Scan# 282
Delta R.T. -0.000 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

Tgt Ion: 84 Resp: 10552
Ion Ratio Lower Upper
84 100
49 132.4 101.4 152.2
51 39.1 30.6 46.0
86 64.9 51.5 77.3





#25

2-Butanone

Concen: 28.814 ug/l

RT: 4.574 min Scan# 5

Delta R.T. 0.006 min

Lab File: VX047578.D

Acq: 02 Sep 2025 13:03

Instrument :

MSVOA_X

ClientSampleId :

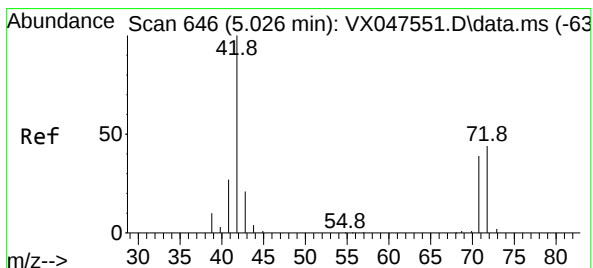
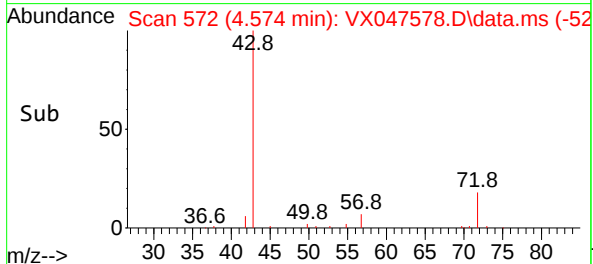
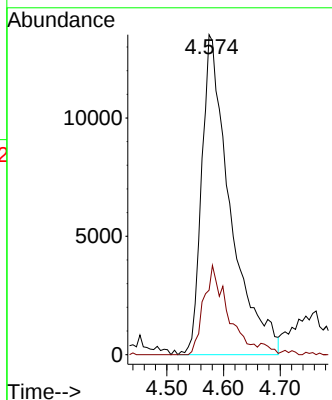
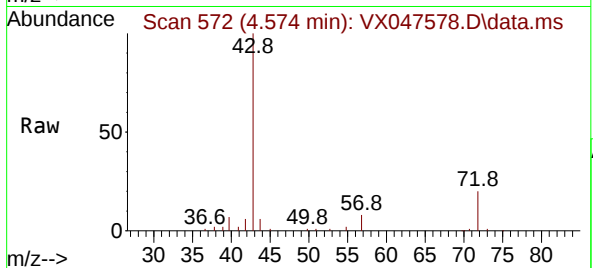
CONTAINMENT-A

Tgt Ion: 43 Resp: 47165

Ion Ratio Lower Upper

43 100

72 19.1 19.5 29.3#



#29

Tetrahydrofuran

Concen: 0.863 ug/l

RT: 5.056 min Scan# 651

Delta R.T. 0.030 min

Lab File: VX047578.D

Acq: 02 Sep 2025 13:03

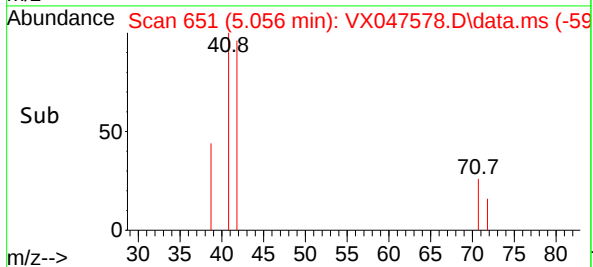
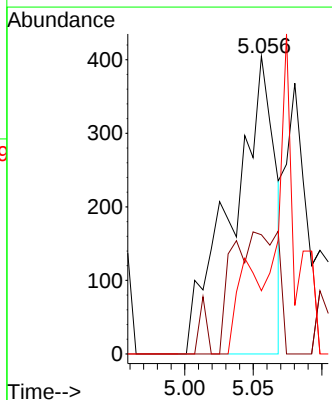
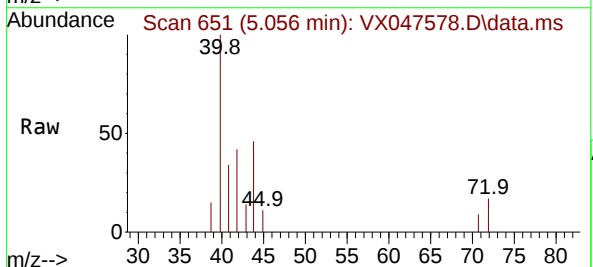
Tgt Ion: 42 Resp: 877

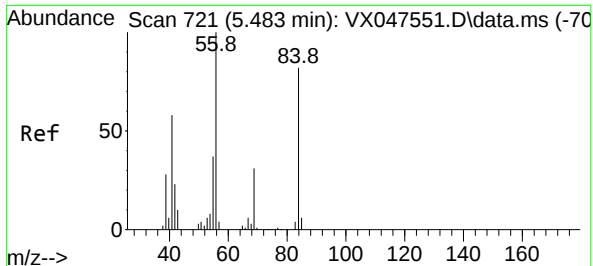
Ion Ratio Lower Upper

42 100

72 44.1 34.5 51.7

71 43.7 31.7 47.5

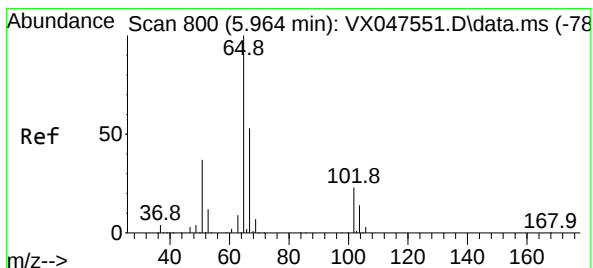
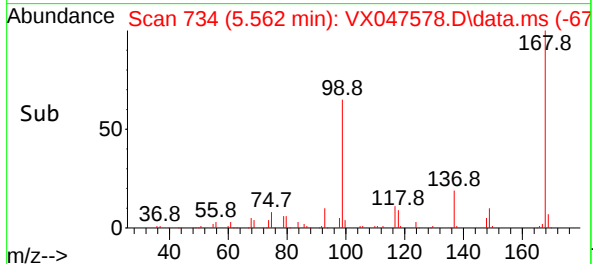
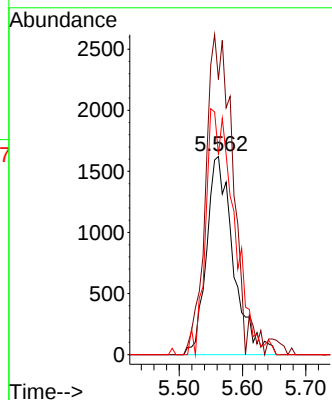
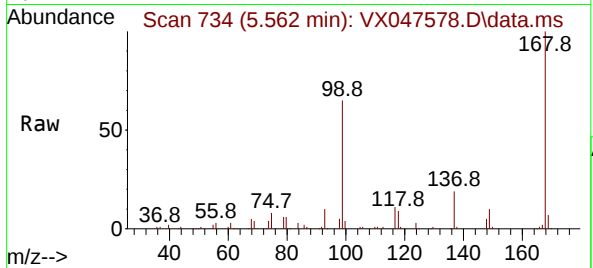




#31
Cyclohexane
Concen: 1.081 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.079 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

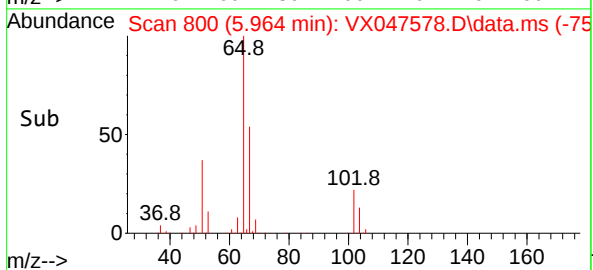
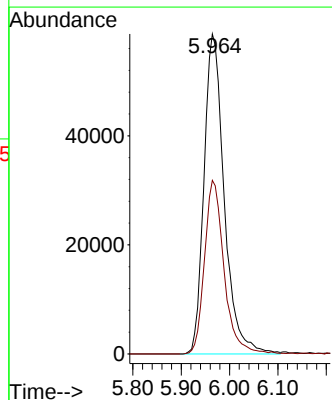
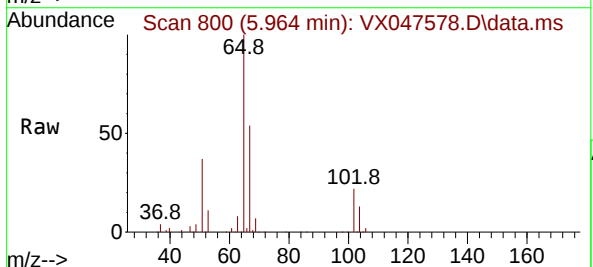
Instrument :
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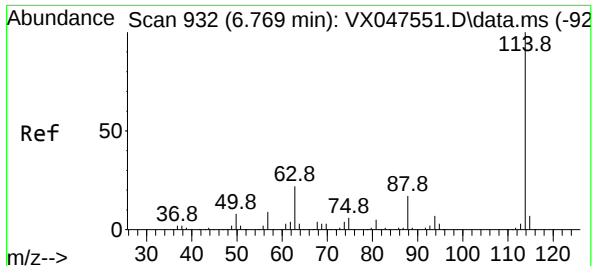
Tgt Ion: 56 Resp: 4774
Ion Ratio Lower Upper
56 100
69 138.8 24.2 36.2#
84 100.9 65.5 98.3#



#33
1,2-Dichloroethane-d4
Concen: 54.231 ug/l
RT: 5.964 min Scan# 800
Delta R.T. -0.000 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

Tgt Ion: 65 Resp: 170317
Ion Ratio Lower Upper
65 100
67 52.6 0.0 104.8

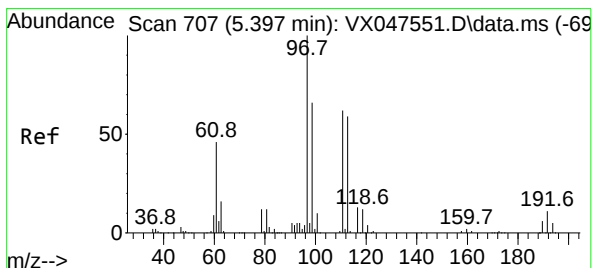
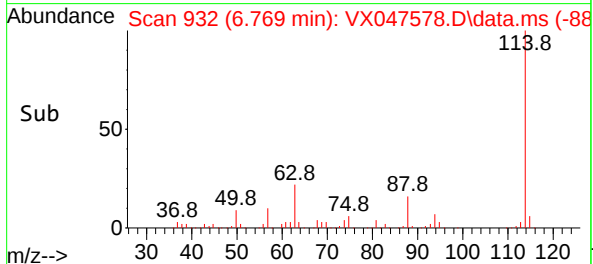
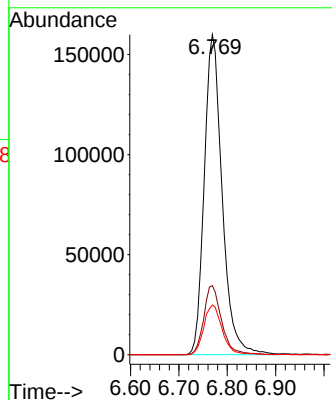
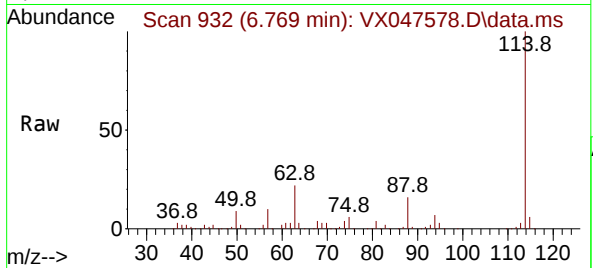




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

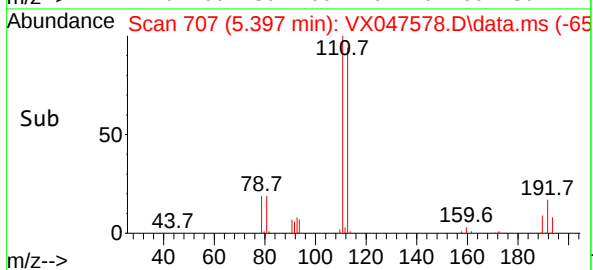
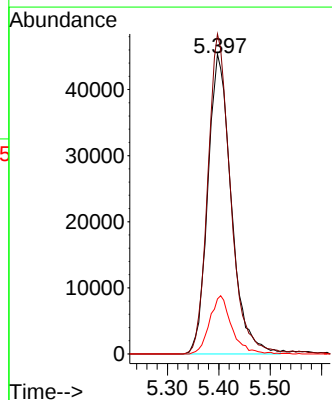
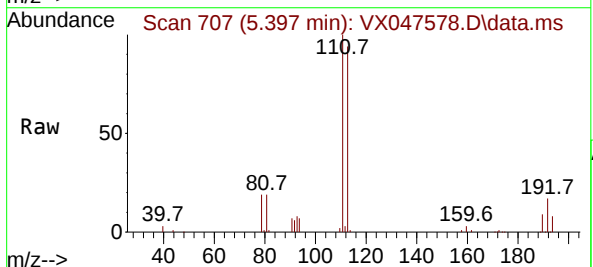
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-A

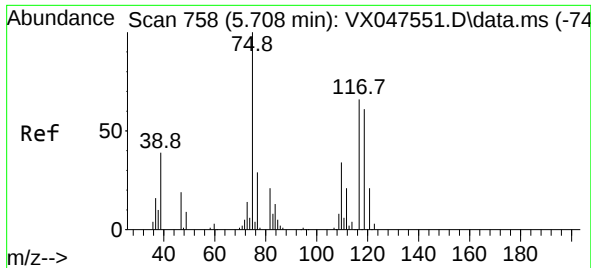
Tgt Ion:114 Resp: 411758
Ion Ratio Lower Upper
114 100
63 24.7 0.0 43.6
88 15.5 0.0 33.2



#35
Dibromofluoromethane
Concen: 50.754 ug/l
RT: 5.397 min Scan# 707
Delta R.T. -0.000 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

Tgt Ion:113 Resp: 143435
Ion Ratio Lower Upper
113 100
111 103.4 81.2 121.8
192 18.4 14.2 21.4

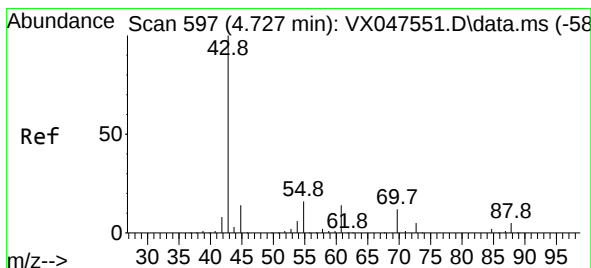
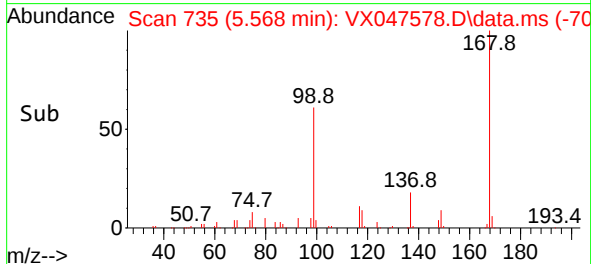
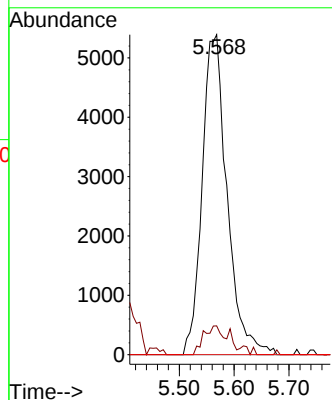
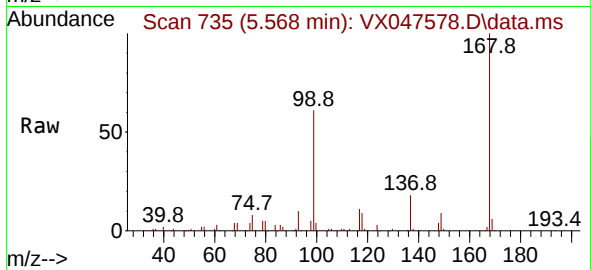




#36
1,1-Dichloropropene
Concen: 4.231 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

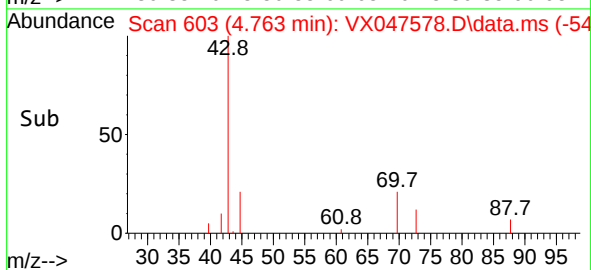
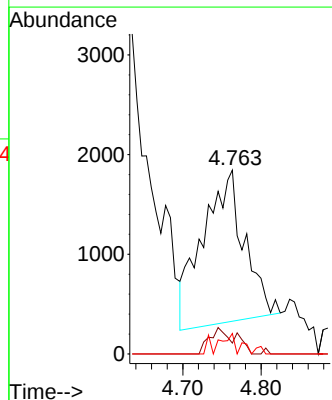
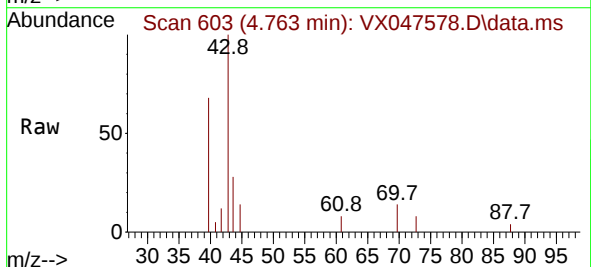
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-A

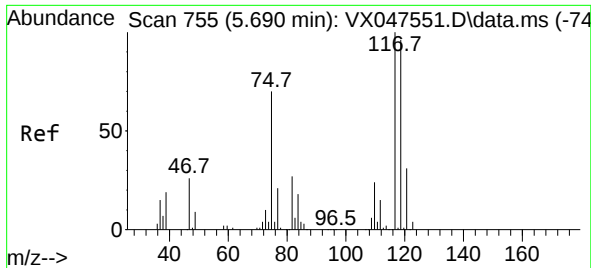
Tgt Ion: 75 Resp: 17017
Ion Ratio Lower Upper
75 100
110 8.8 17.1 51.3#
77 0.0 25.0 37.6#



#37
Ethyl Acetate
Concen: 1.428 ug/l
RT: 4.763 min Scan# 603
Delta R.T. 0.036 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

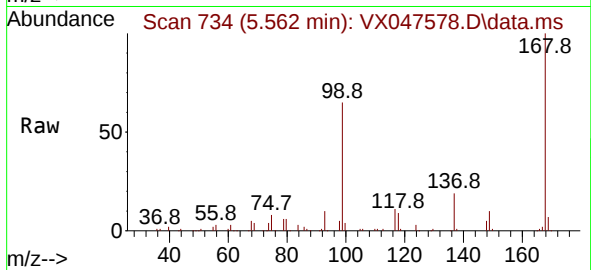
Tgt Ion: 43 Resp: 5660
Ion Ratio Lower Upper
43 100
61 0.0 10.2 15.2#
70 5.3 8.2 12.4#



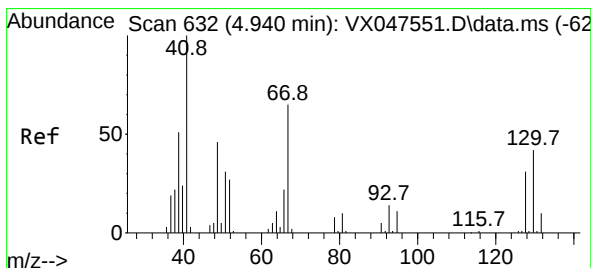
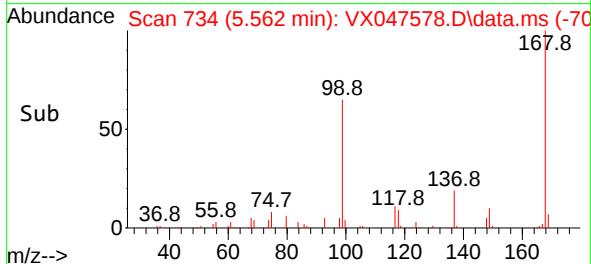
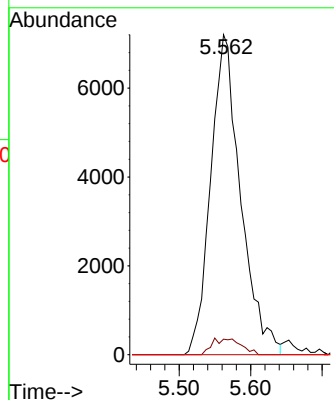


#38
Carbon Tetrachloride
Concen: 4.689 ug/l
RT: 5.562 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-A

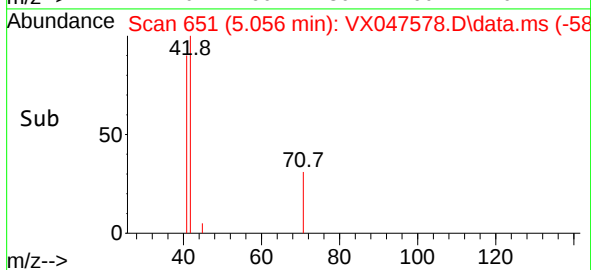
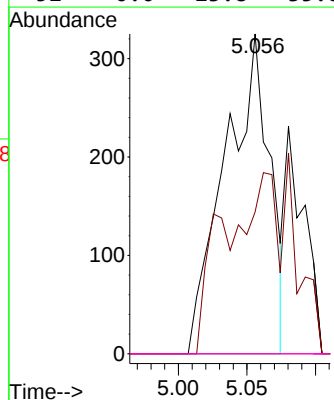
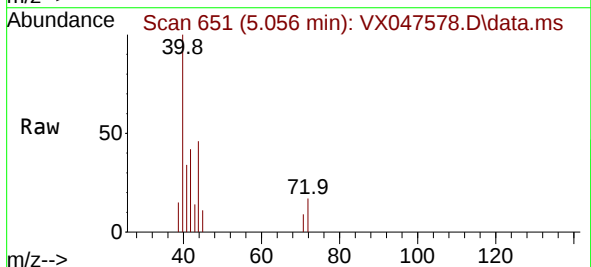


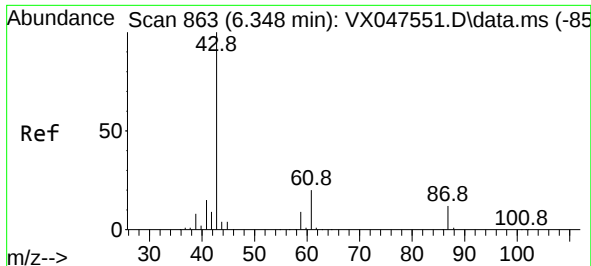
Tgt Ion:117 Resp: 20925
Ion Ratio Lower Upper
117 100
119 4.8 76.4 114.6#
121 0.0 24.9 37.3#



#41
Methacrylonitrile
Concen: 0.391 ug/l
RT: 5.056 min Scan# 651
Delta R.T. 0.116 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

Tgt Ion: 41 Resp: 735
Ion Ratio Lower Upper
41 100
39 0.0 42.4 63.6#
67 0.0 60.6 90.8#
52 0.0 23.8 35.8#

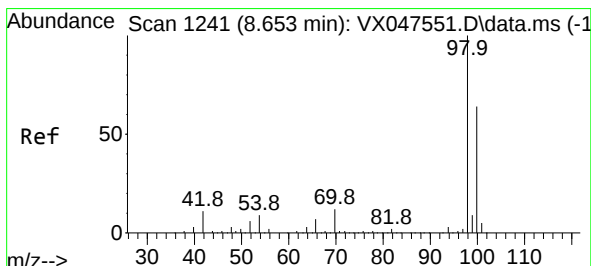
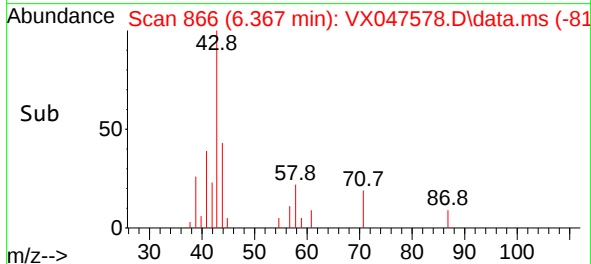
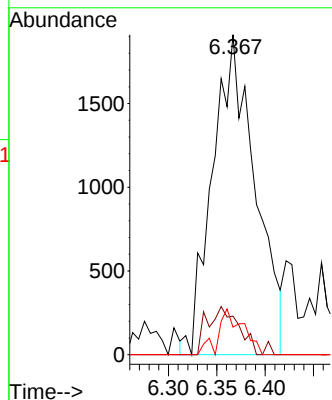
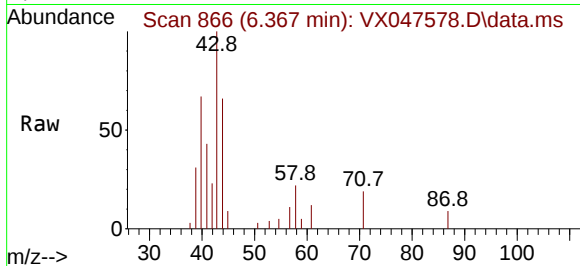




#43
Isopropyl Acetate
Concen: 0.919 ug/l
RT: 6.367 min Scan# 866
Delta R.T. 0.018 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

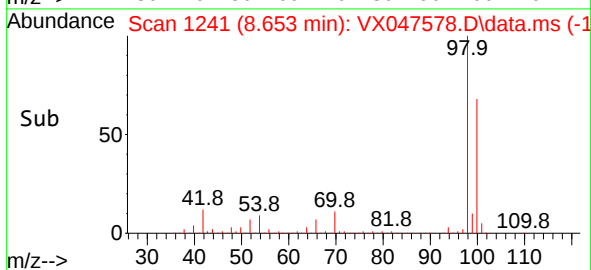
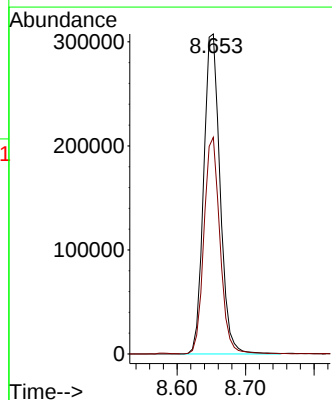
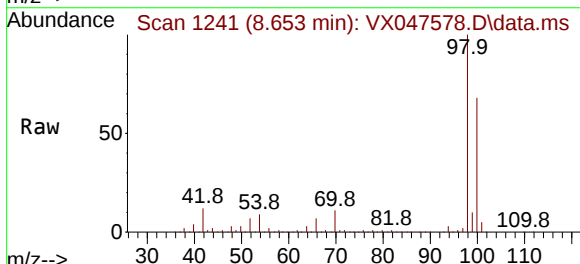
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-A

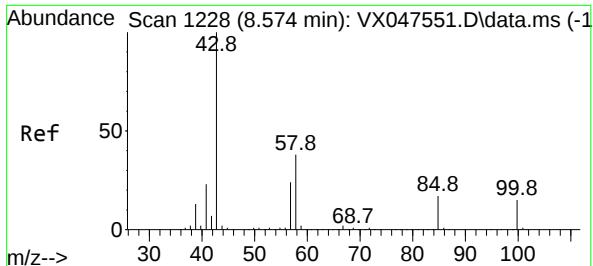
Tgt Ion: 43 Resp: 5851
Ion Ratio Lower Upper
43 100
61 11.1 15.4 23.2#
87 8.4 9.9 14.9#



#50
Toluene-d8
Concen: 51.674 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

Tgt Ion: 98 Resp: 511869
Ion Ratio Lower Upper
98 100
100 66.3 53.5 80.3

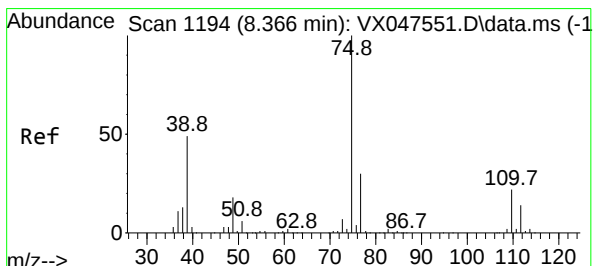
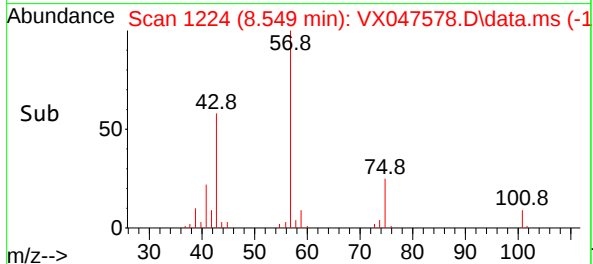
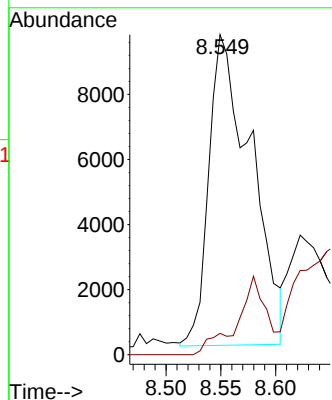
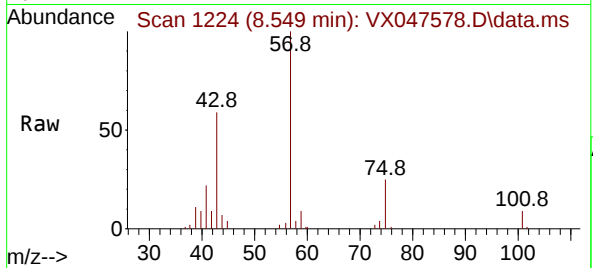




#51
4-Methyl-2-Pentanone
Concen: 6.785 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

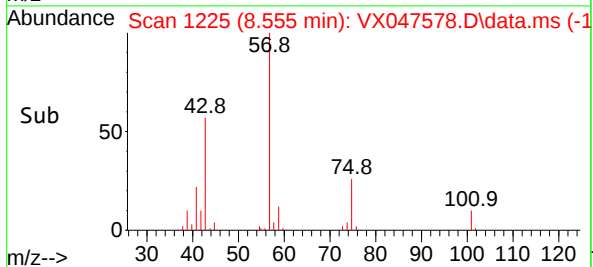
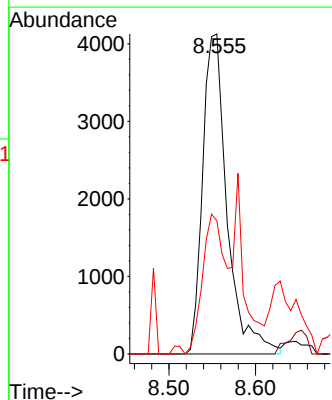
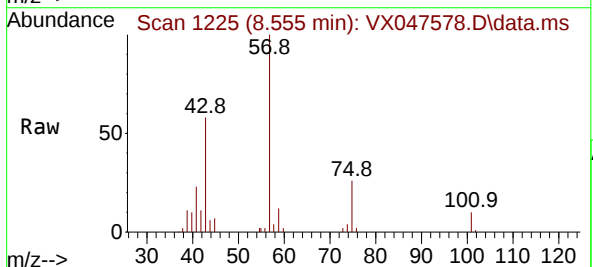
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-A

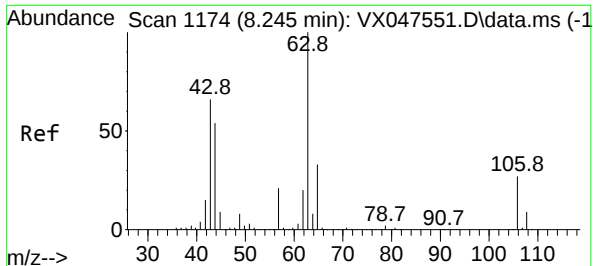
Tgt Ion: 43 Resp: 25534
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#



#54
cis-1,3-Dichloropropene
Concen: 1.663 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. 0.189 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

Tgt Ion: 75 Resp: 8085
Ion Ratio Lower Upper
75 100
77 0.0 24.3 36.5#
39 18.8 39.0 58.4#

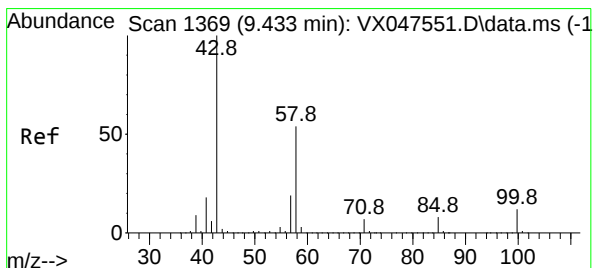
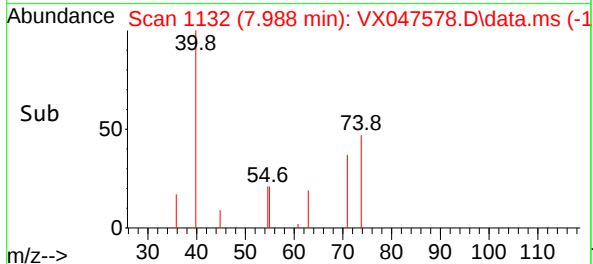
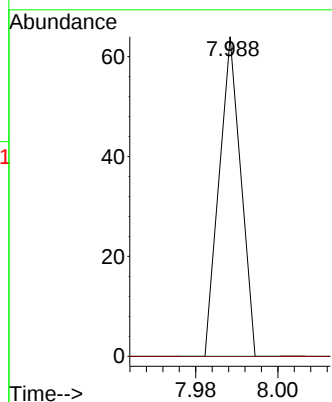
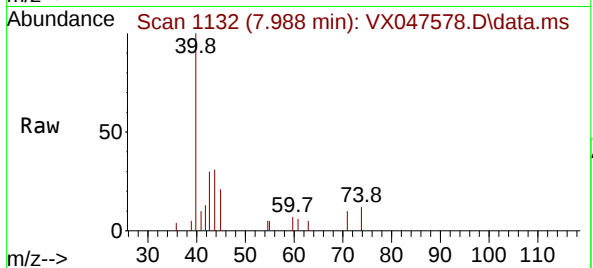




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 7.988 min Scan# 1174
Delta R.T. -0.257 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

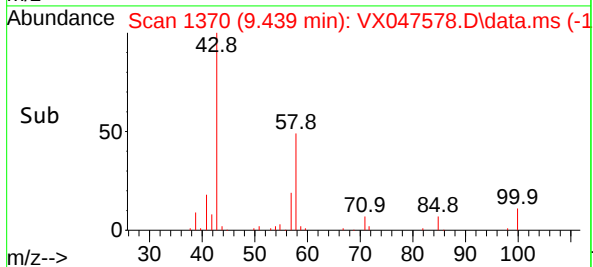
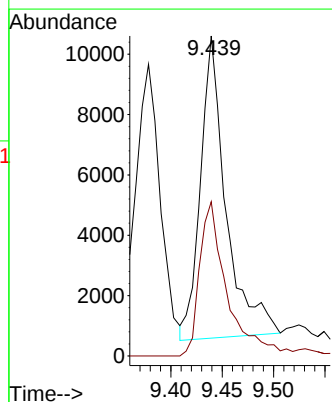
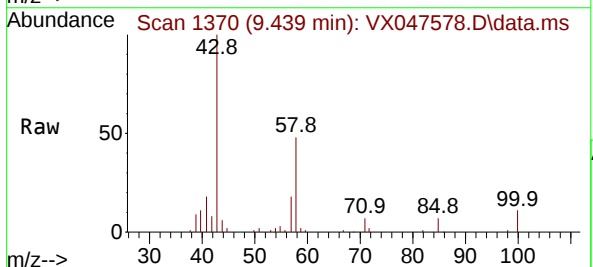
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-A

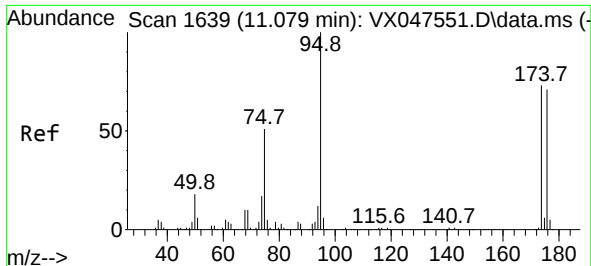
Tgt Ion: 63 Resp: 23
Ion Ratio Lower Upper
63 100
106 0.0 22.2 33.4#



#59
2-Hexanone
Concen: 6.719 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.006 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

Tgt Ion: 43 Resp: 17275
Ion Ratio Lower Upper
43 100
58 54.9 26.7 80.0





#62

4-Bromofluorobenzene

Concen: 58.751 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX047578.D

Acq: 02 Sep 2025 13:03

Instrument :

MSVOA_X

ClientSampleId :

CONTAINMENT-A

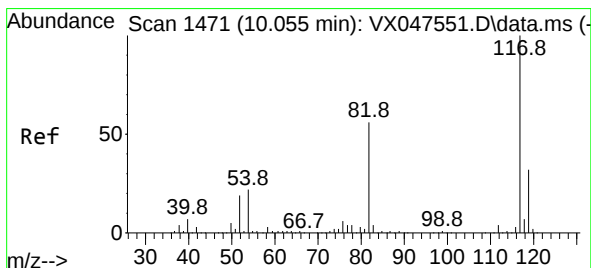
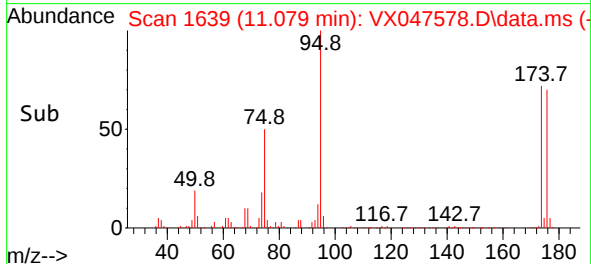
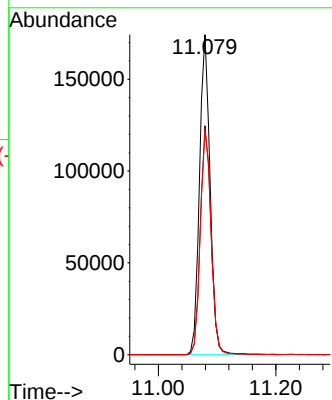
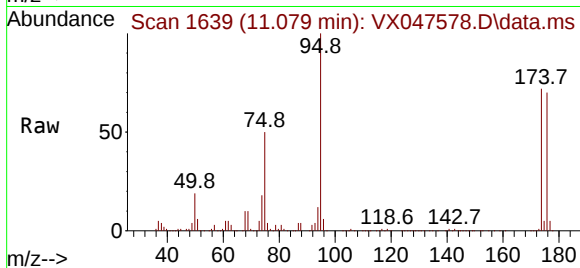
Tgt Ion: 95 Resp: 218632

Ion Ratio Lower Upper

95 100

174 72.4 0.0 145.2

176 71.5 0.0 140.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX047578.D

Acq: 02 Sep 2025 13:03

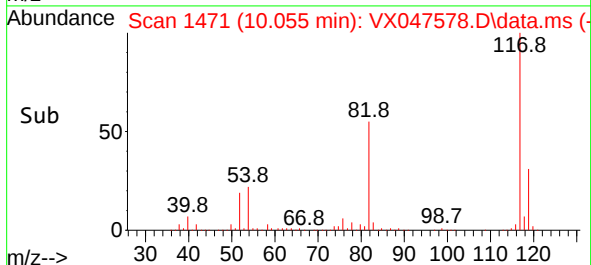
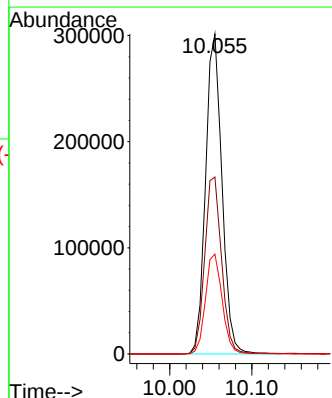
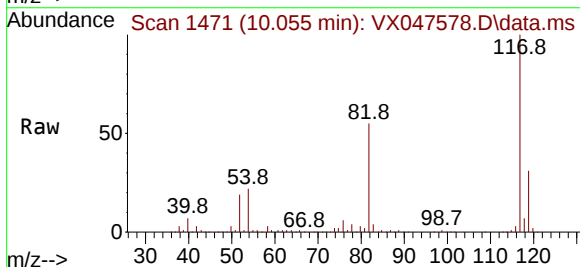
Tgt Ion: 117 Resp: 418229

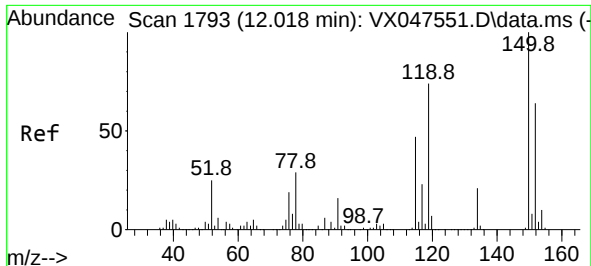
Ion Ratio Lower Upper

117 100

82 55.3 44.6 66.8

119 31.2 25.7 38.5

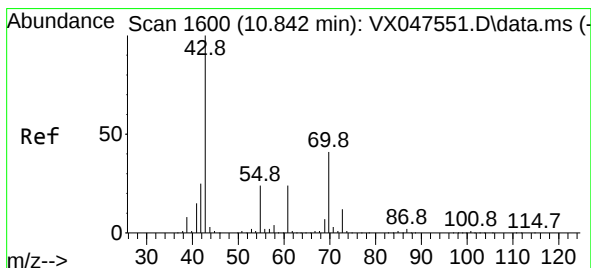
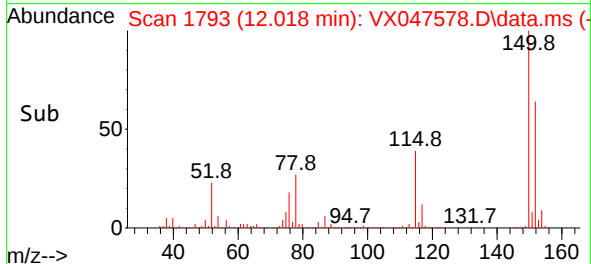
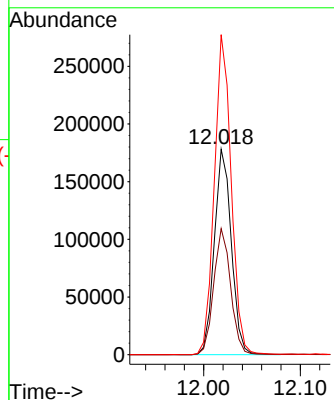
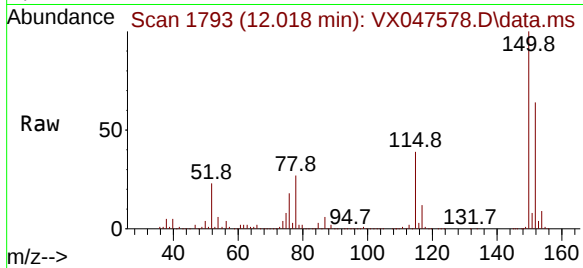




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX047578.D
 Acq: 02 Sep 2025 13:03

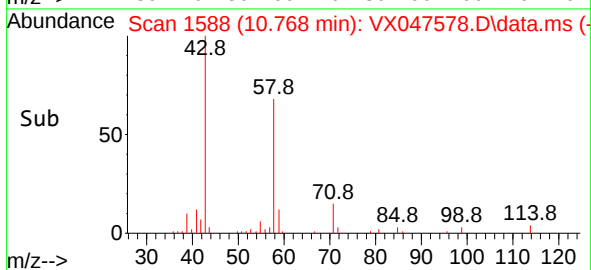
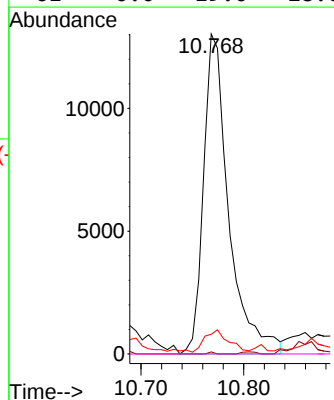
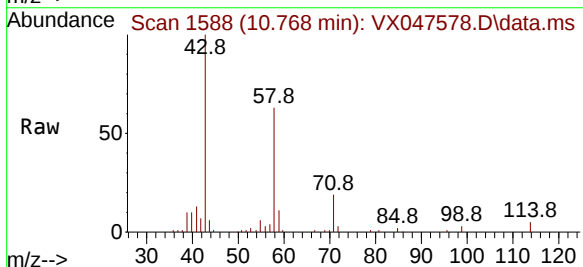
Instrument :
 MSVOA_X
 ClientSampleId :
 CONTAINMENT-A

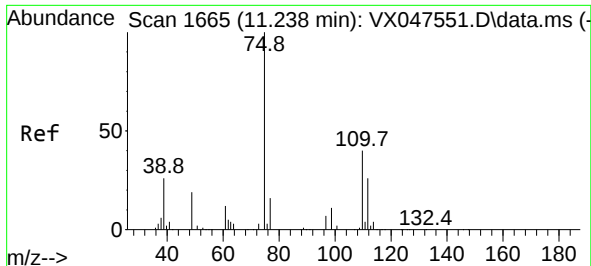
Tgt Ion:152 Resp: 217352
 Ion Ratio Lower Upper
 152 100
 115 61.3 42.9 128.5
 150 154.9 0.0 351.0



#74
 N-ethyl acetate
 Concen: 3.366 ug/l
 RT: 10.768 min Scan# 1588
 Delta R.T. -0.073 min
 Lab File: VX047578.D
 Acq: 02 Sep 2025 13:03

Tgt Ion: 43 Resp: 22230
 Ion Ratio Lower Upper
 43 100
 70 0.0 32.9 49.3#
 55 6.5 19.2 28.8#
 61 0.0 19.0 28.6#

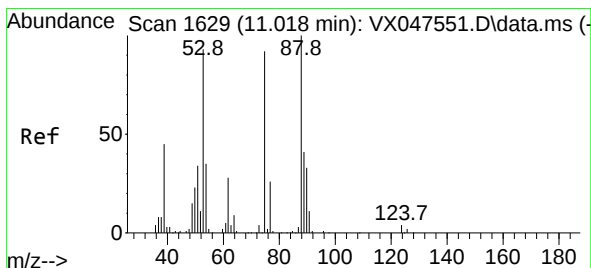
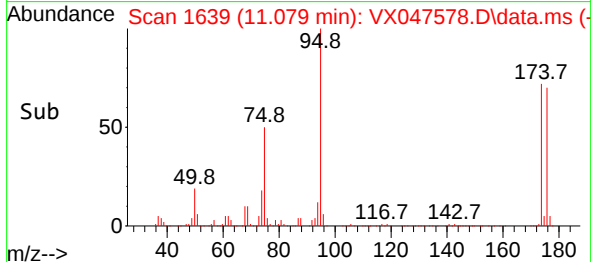
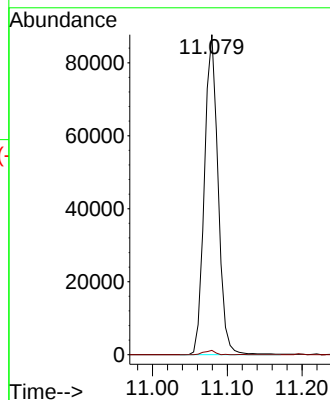
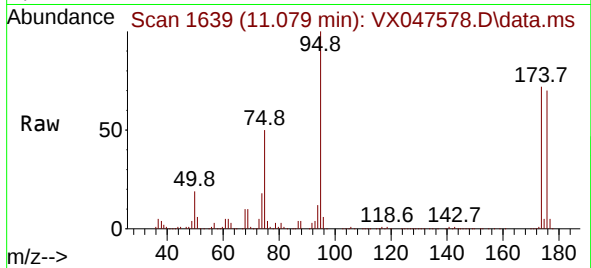




#76
1,2,3-Trichloropropane
Concen: 28.668 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

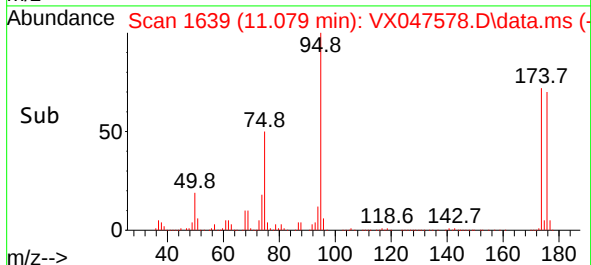
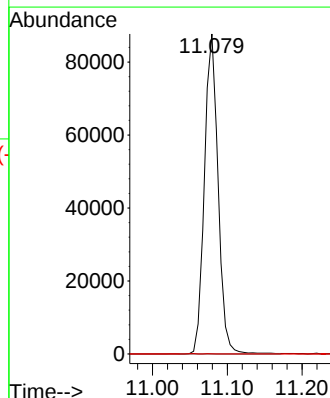
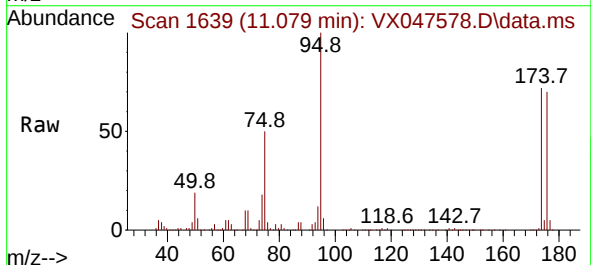
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-A

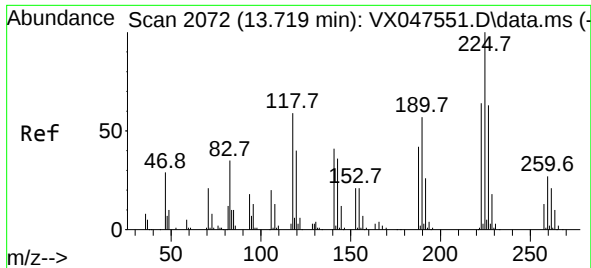
Tgt Ion: 75 Resp: 111209
Ion Ratio Lower Upper
75 100
77 1.1 19.7 59.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 101.503 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047578.D
Acq: 02 Sep 2025 13:03

Tgt Ion: 75 Resp: 111209
Ion Ratio Lower Upper
75 100
53 0.0 85.7 128.5#
89 0.0 36.4 54.6#





#94
 Hexachlorobutadiene
 Concen: 0.600 ug/l
 RT: 13.719 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VX047578.D
 Acq: 02 Sep 2025 13:03

Instrument :
 MSVOA_X
 ClientSampleId :
 CONTAINMENT-A

Tgt Ion:	225	Resp:	950
Ion	Ratio	Lower	Upper
225	100		
223	47.8	31.1	93.5
227	68.8	31.8	95.3

