

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072925\
 Data File : VX047176.D
 Acq On : 29 Jul 2025 14:42
 Operator : JC/MD
 Sample : Q2719-02 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 50765

Quant Time: Jul 30 01:15:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

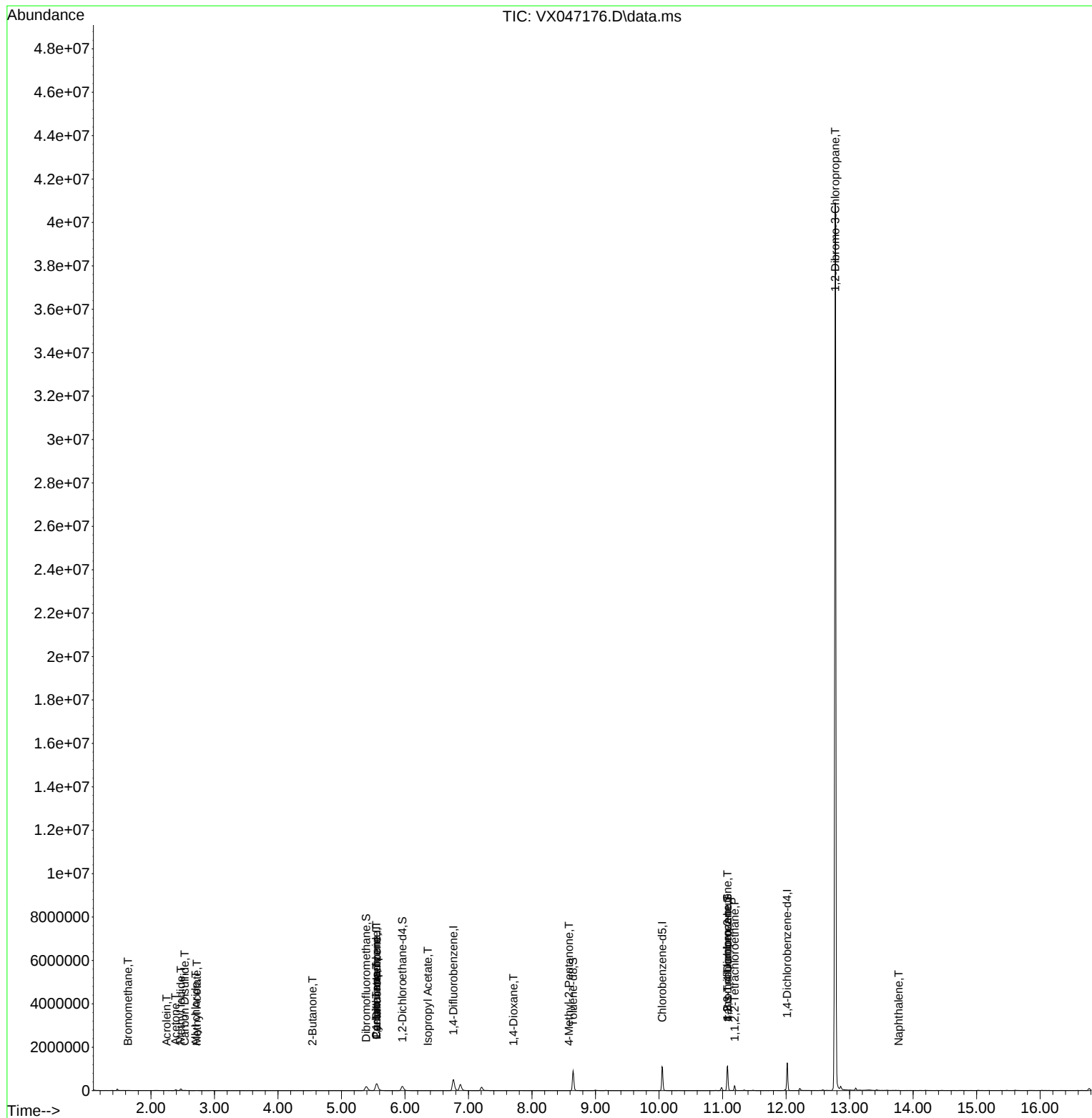
Internal Standards						
1) Pentafluorobenzene	5.556	168	320845	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	546288	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	488101	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	250040	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	210124	52.574	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 105.140%		
35) Dibromofluoromethane	5.385	113	179763	53.295	ug/l	-0.01
Spiked Amount	50.000	Range 75 - 124	Recovery	= 106.600%		
50) Toluene-d8	8.647	98	541095	49.536	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 99.080%		
62) 4-Bromofluorobenzene	11.079	95	260450	55.329	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 110.660%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.636	94	855	0.347	ug/l #	52
10) Methyl Iodide	2.471	142	86184	20.772	ug/l	98
11) Tert butyl alcohol	2.965	59	1723	Below Cal	#	75
13) Acrolein	2.245	56	452	0.525	ug/l #	1
14) Allyl chloride	2.703	41	4190	0.575	ug/l #	25
16) Acetone	2.386	43	54859	34.263	ug/l	94
17) Carbon Disulfide	2.532	76	6398	0.548	ug/l #	89
18) Methyl Acetate	2.721	43	1006	0.236	ug/l #	54
25) 2-Butanone	4.544	43	853	0.366	ug/l #	52
31) Cyclohexane	5.550	56	7443	0.996	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	26687	4.642	ug/l #	51
38) Carbon Tetrachloride	5.550	117	33953	5.533	ug/l #	16
43) Isopropyl Acetate	6.361	43	1787	0.216	ug/l #	62
49) 1,4-Dioxane	7.708	88	88	1.720	ug/l #	1
51) 4-Methyl-2-Pentanone	8.580	43	1336	0.272	ug/l	92
75) 1,1,2,2-Tetrachloroethane	11.189	83	7446	1.321	ug/l #	36
76) 1,2,3-Trichloropropane	11.079	75	136137	29.415	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	136137	75.785	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	12.774	75	32989	30.500	ug/l #	2
95) Naphthalene	13.774	128	4132	0.248	ug/l #	91

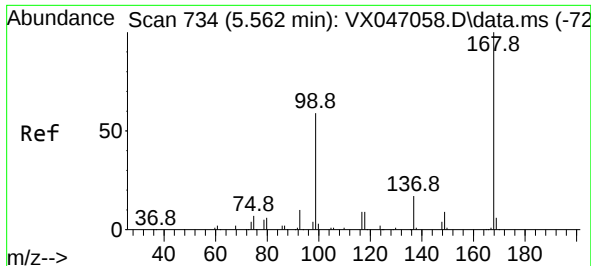
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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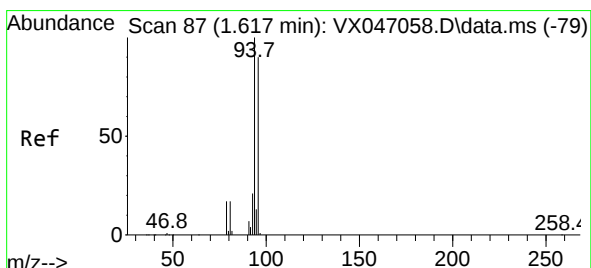
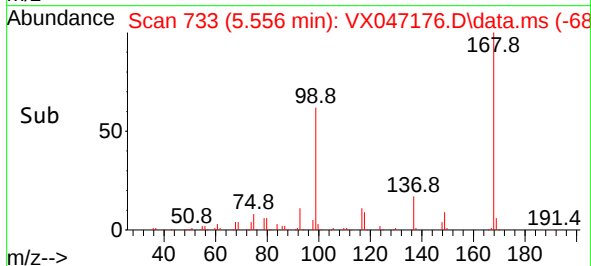
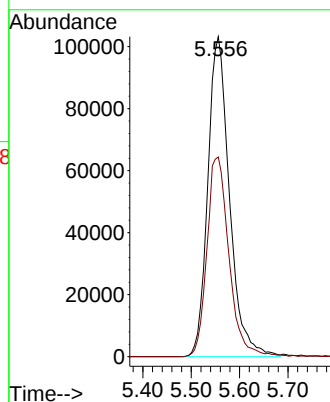
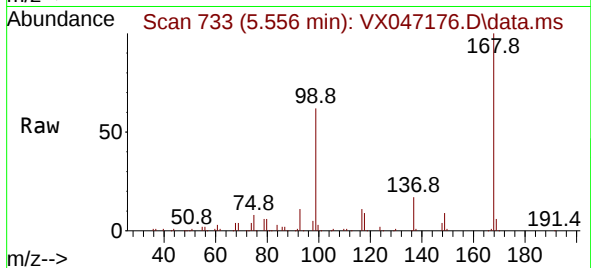




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

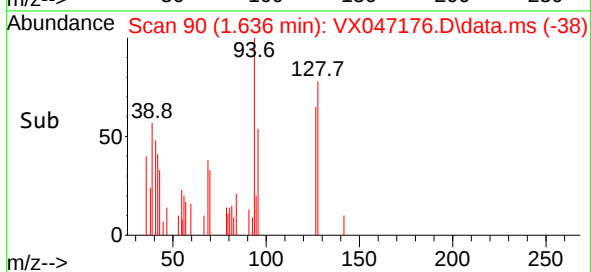
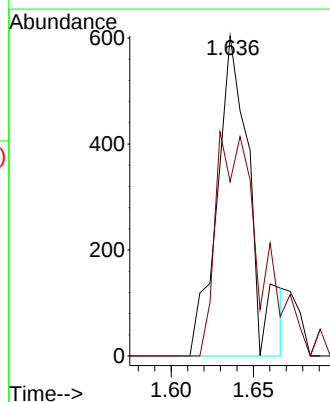
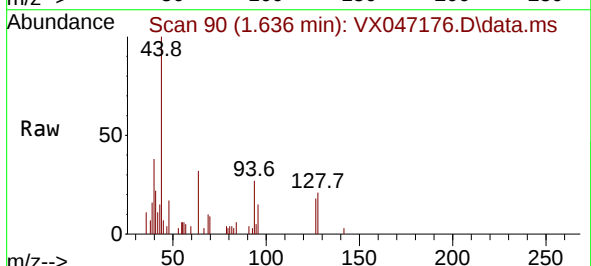
Instrument :
MSVOA_X
ClientSampleId :
50765

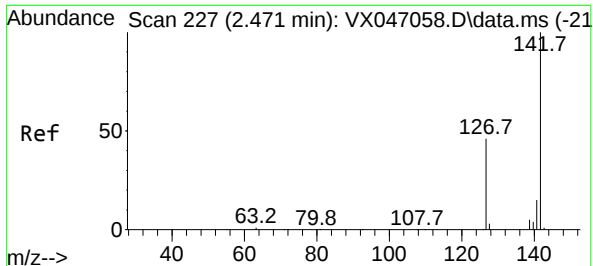
Tgt Ion:168 Resp: 320845
Ion Ratio Lower Upper
168 100
99 62.4 48.0 72.0



#5
Bromomethane
Concen: 0.347 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.019 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

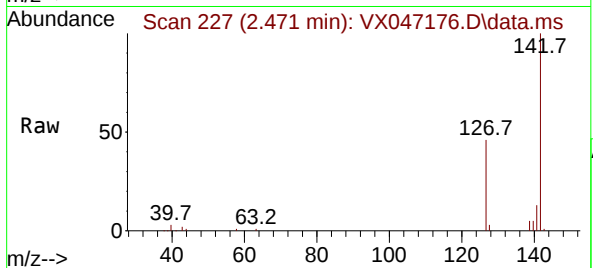
Tgt Ion: 94 Resp: 855
Ion Ratio Lower Upper
94 100
96 45.5 72.3 108.5



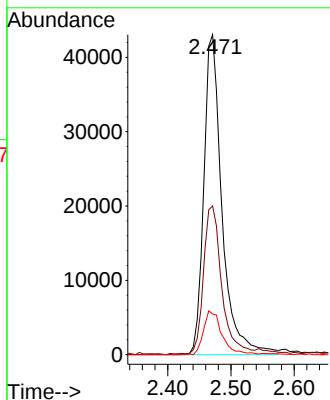
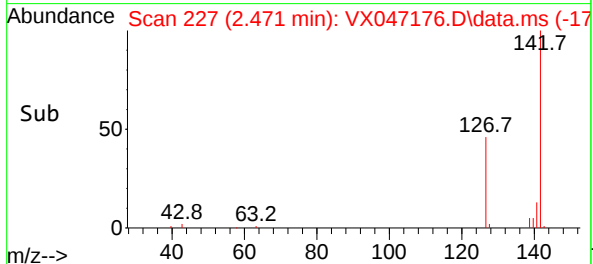


#10
Methyl Iodide
Concen: 20.772 ug/l
RT: 2.471 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

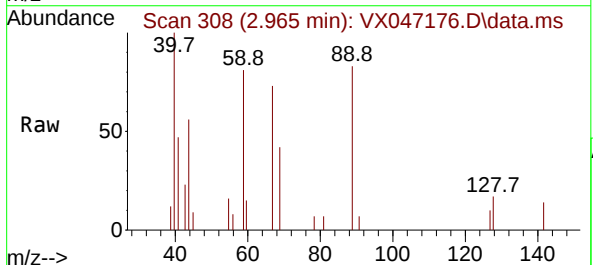
Instrument :
MSVOA_X
ClientSampleId :
50765



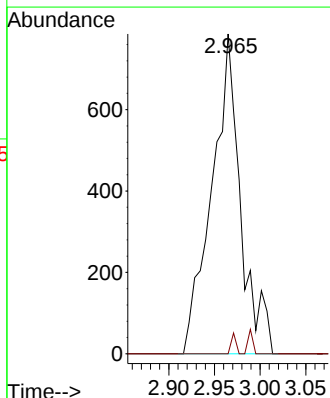
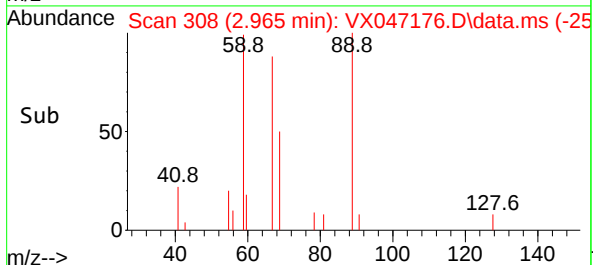
Tgt Ion:142 Resp: 86184
Ion Ratio Lower Upper
142 100
127 46.9 36.6 54.8
141 13.8 10.9 16.3

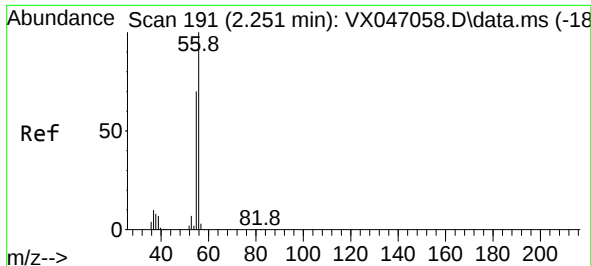


#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.965 min Scan# 308
Delta R.T. 0.007 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42



Tgt Ion: 59 Resp: 1723
Ion Ratio Lower Upper
59 100
57 1.1 8.5 12.7#

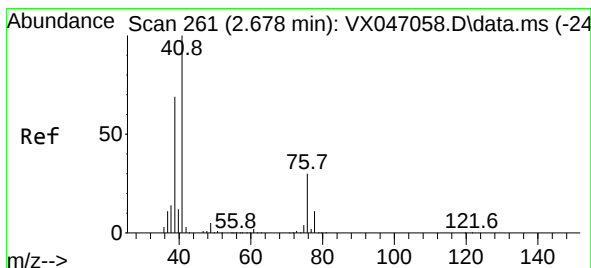
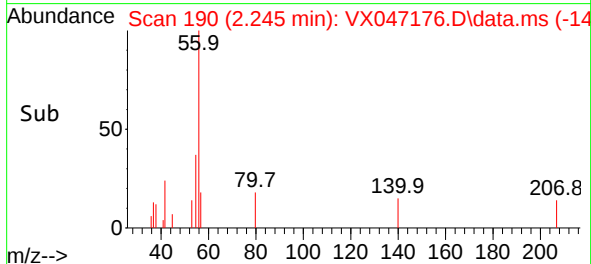
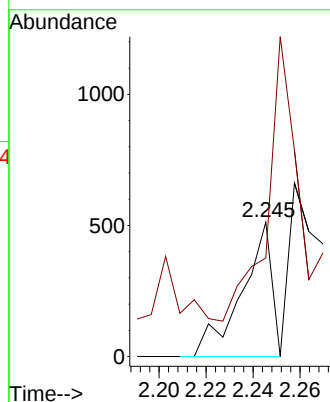
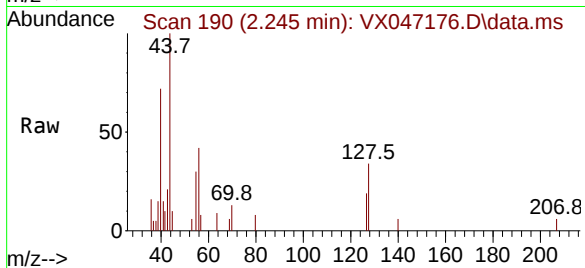




#13
Acrolein
Concen: 0.525 ug/l
RT: 2.245 min Scan# 191
Delta R.T. -0.006 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

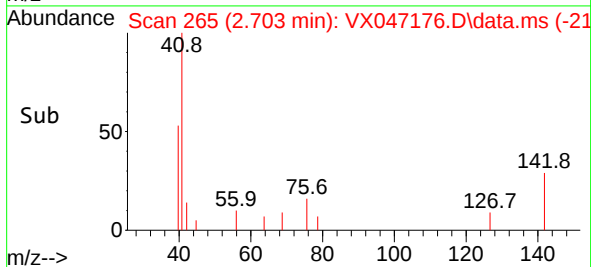
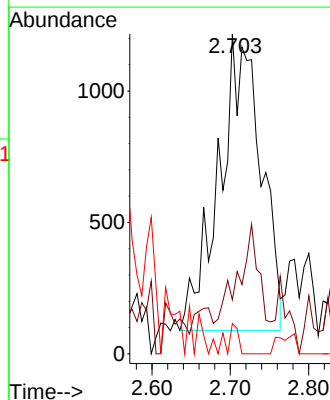
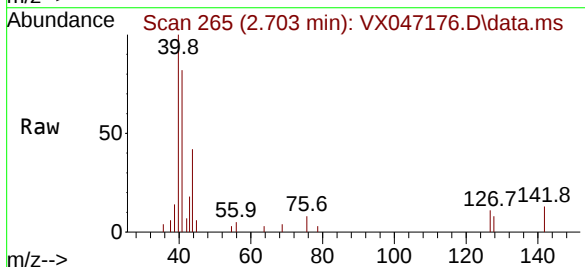
Instrument :
MSVOA_X
ClientSampleId :
50765

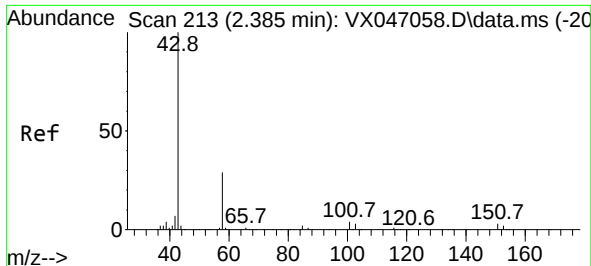
Tgt Ion: 56 Resp: 452
Ion Ratio Lower Upper
56 100
55 308.8 55.7 83.5#



#14
Allyl chloride
Concen: 0.575 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.025 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

Tgt Ion: 41 Resp: 4190
Ion Ratio Lower Upper
41 100
39 0.0 52.6 78.8#
76 0.0 25.7 38.5#

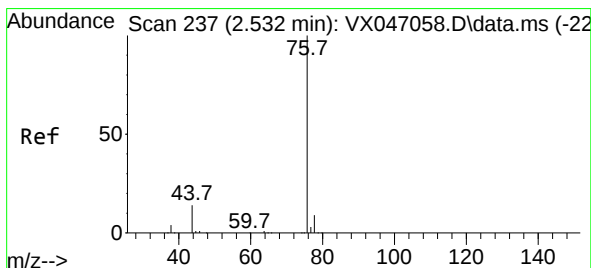
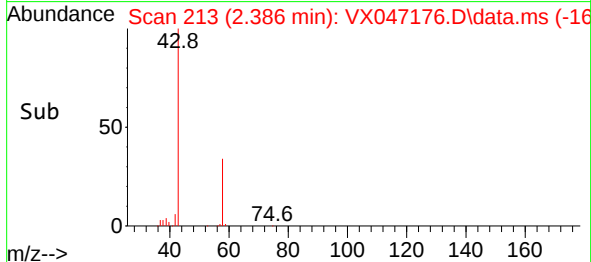
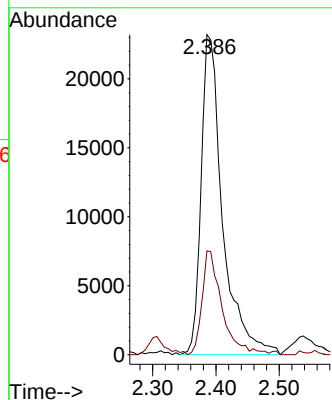
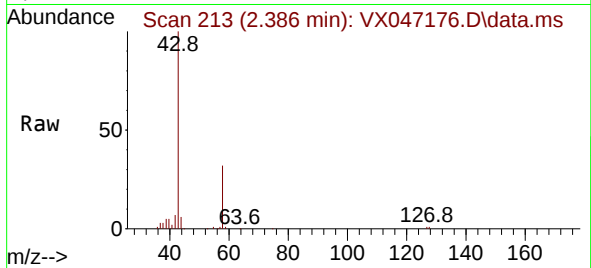




#16
Acetone
Concen: 34.263 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

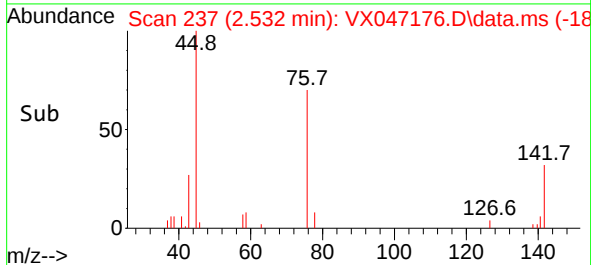
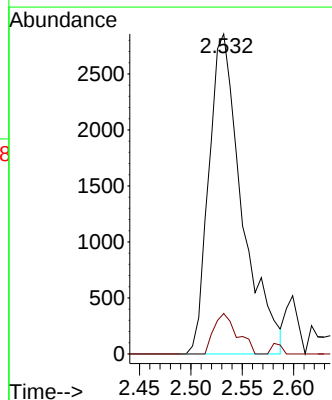
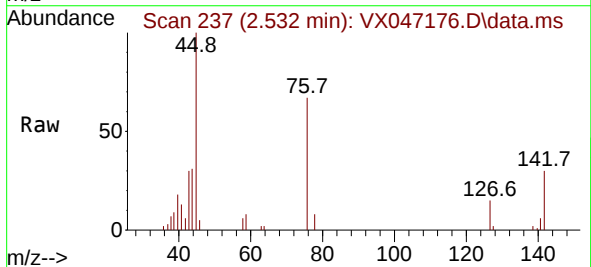
Instrument :
MSVOA_X
ClientSampleId :
50765

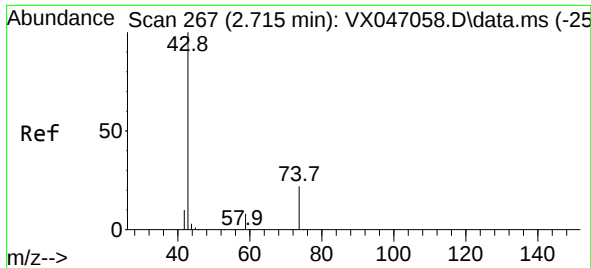
Tgt Ion: 43 Resp: 54859
Ion Ratio Lower Upper
43 100
58 33.4 24.0 36.0



#17
Carbon Disulfide
Concen: 0.548 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

Tgt Ion: 76 Resp: 6398
Ion Ratio Lower Upper
76 100
78 12.6 7.0 10.4#

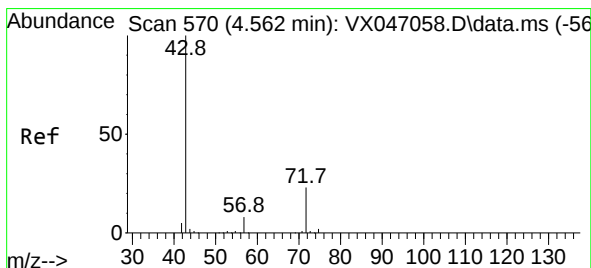
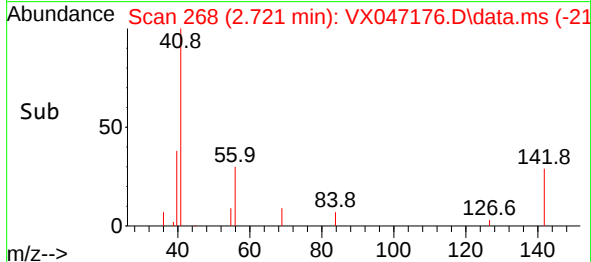
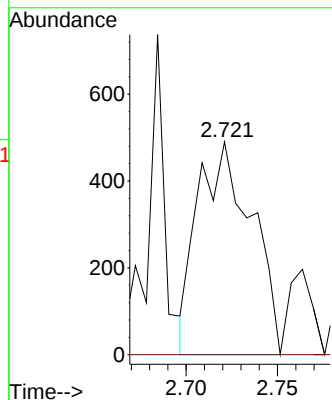
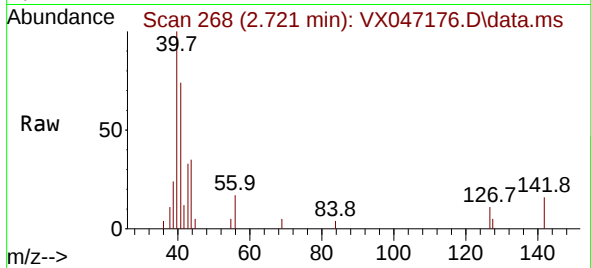




#18
Methyl Acetate
Concen: 0.236 ug/l
RT: 2.721 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

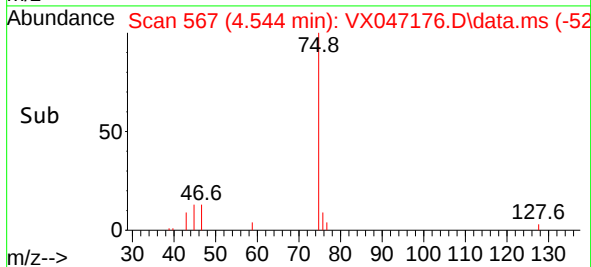
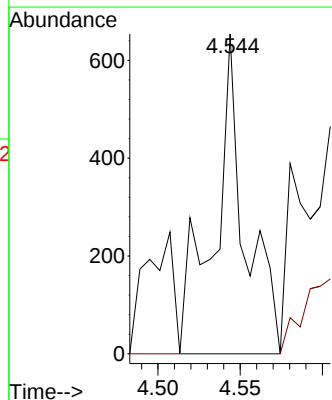
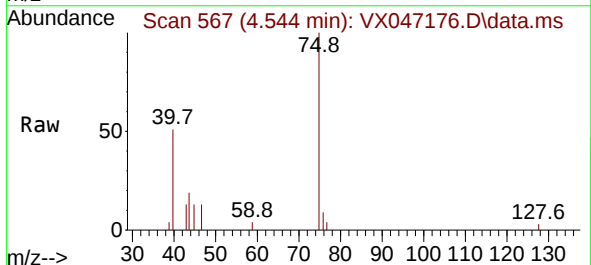
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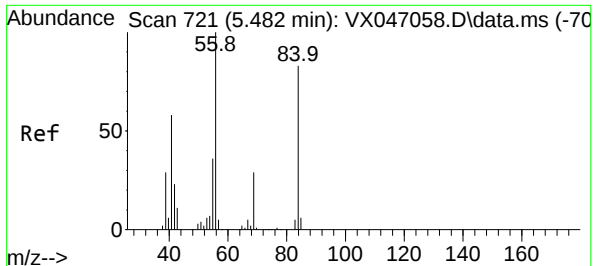
Tgt Ion: 43 Resp: 1006
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#25
2-Butanone
Concen: 0.366 ug/l
RT: 4.544 min Scan# 567
Delta R.T. -0.018 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

Tgt Ion: 43 Resp: 853
Ion Ratio Lower Upper
43 100
72 0.0 18.8 28.2#

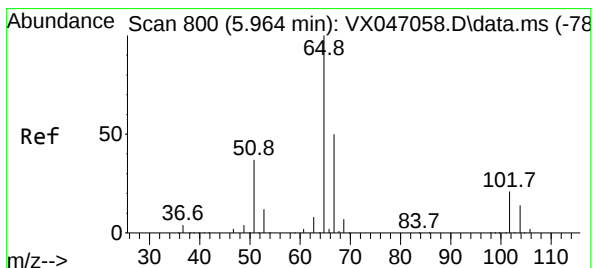
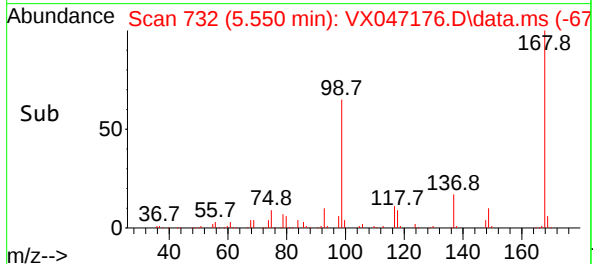
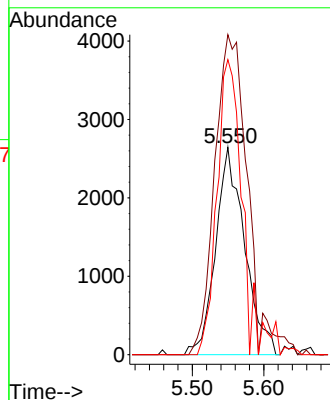
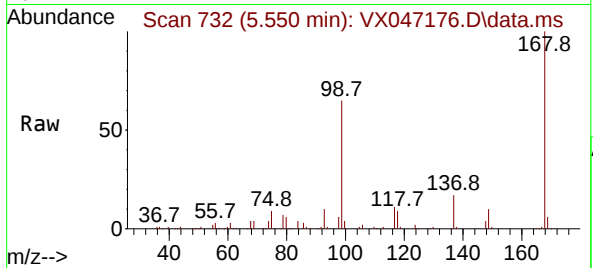




#31
Cyclohexane
Concen: 0.996 ug/l
RT: 5.550 min Scan# 719
Delta R.T. 0.067 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

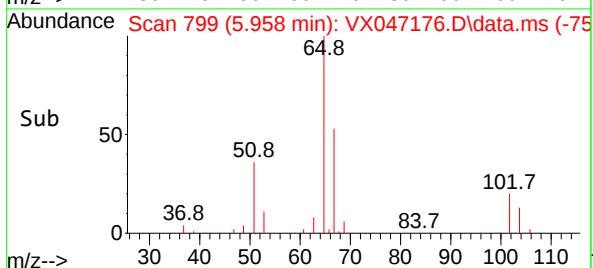
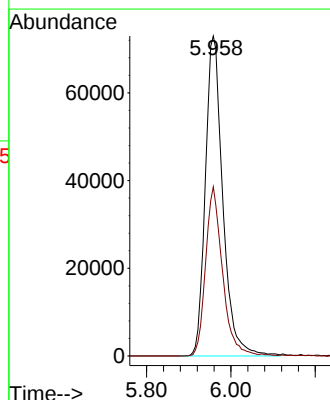
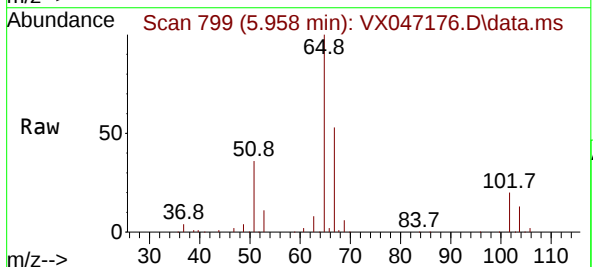
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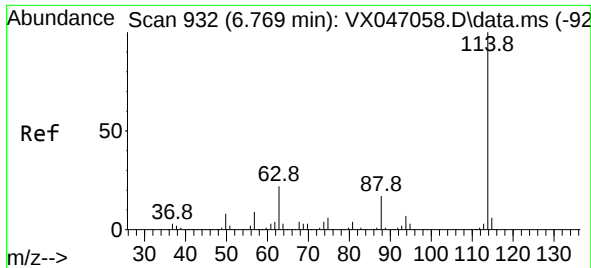
Tgt Ion: 56 Resp: 7443
Ion Ratio Lower Upper
56 100
69 154.3 23.3 34.9#
84 142.3 66.5 99.7#



#33
1,2-Dichloroethane-d4
Concen: 52.574 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

Tgt Ion: 65 Resp: 210124
Ion Ratio Lower Upper
65 100
67 51.4 0.0 104.8

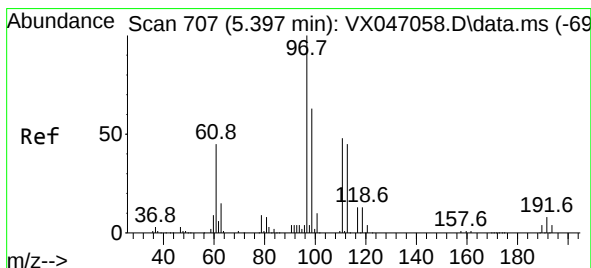
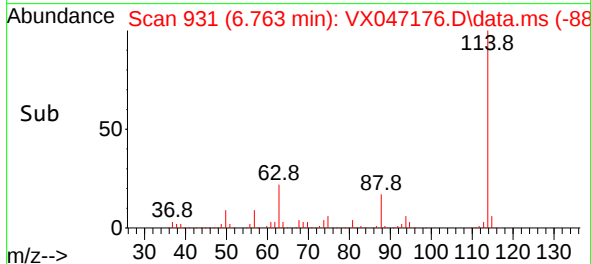
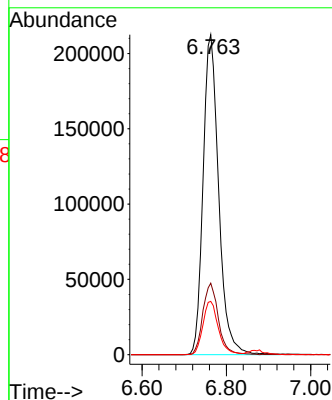
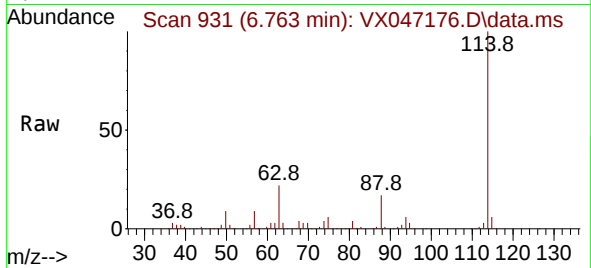




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

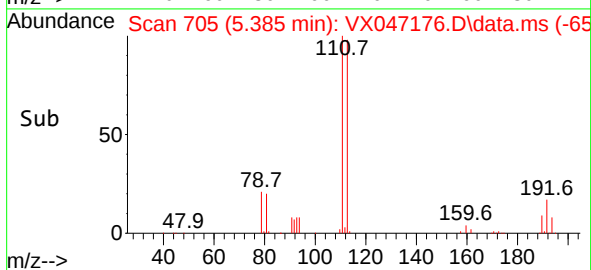
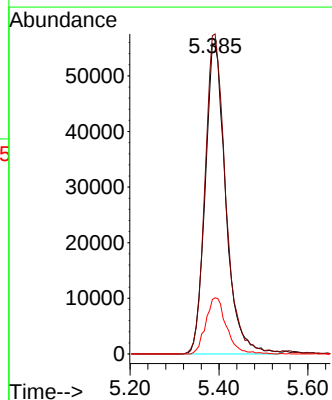
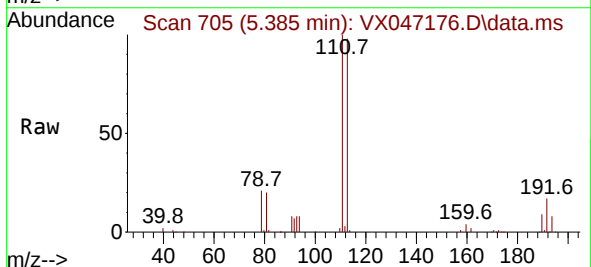
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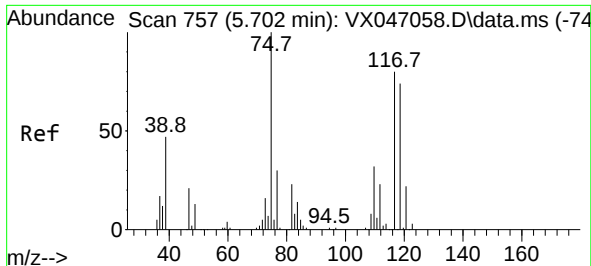
Tgt Ion:114 Resp: 546288
Ion Ratio Lower Upper
114 100
63 22.4 0.0 43.2
88 16.7 0.0 33.8



#35
Dibromofluoromethane
Concen: 53.295 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.012 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

Tgt Ion:113 Resp: 179763
Ion Ratio Lower Upper
113 100
111 103.5 82.6 124.0
192 18.2 14.9 22.3





#36

1,1-Dichloropropene

Concen: 4.642 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.152 min

Lab File: VX047176.D

Acq: 29 Jul 2025 14:42

Instrument :

MSVOA_X

ClientSampleId :

50765

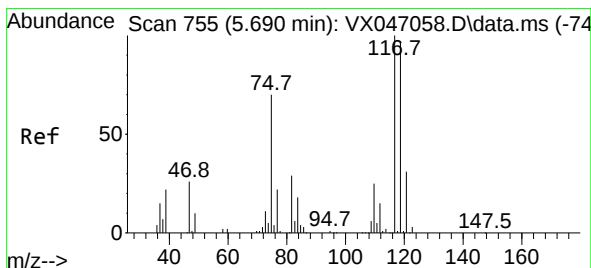
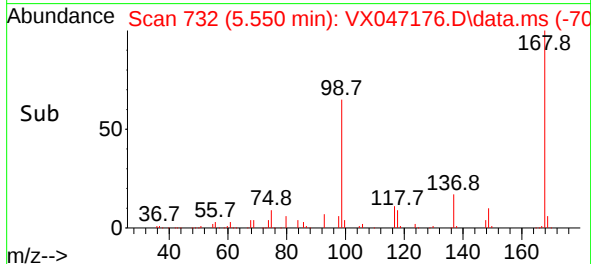
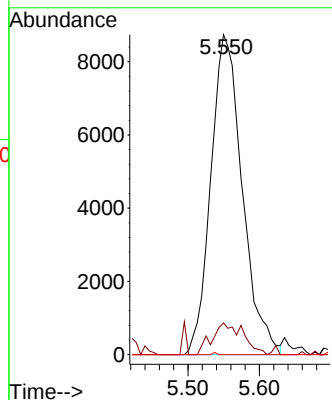
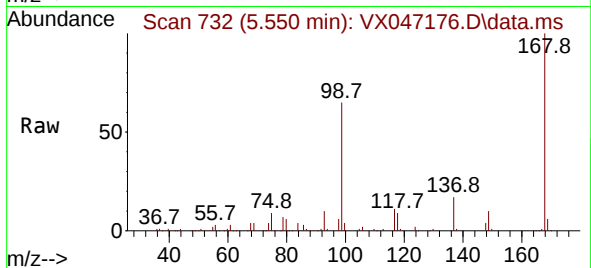
Tgt Ion: 75 Resp: 26687

Ion Ratio Lower Upper

75 100

110 9.9 17.2 51.5#

77 0.1 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.533 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.140 min

Lab File: VX047176.D

Acq: 29 Jul 2025 14:42

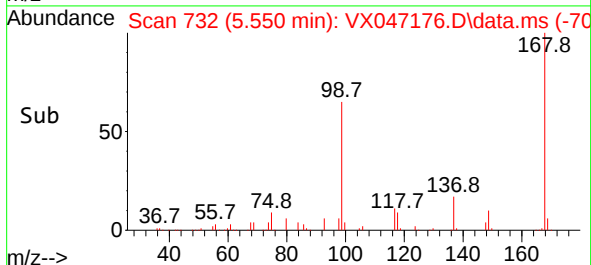
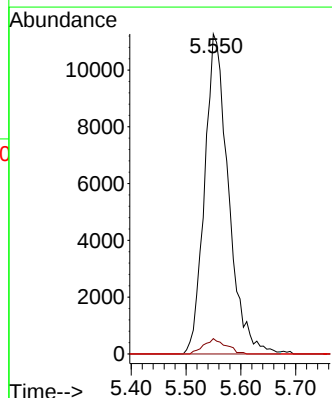
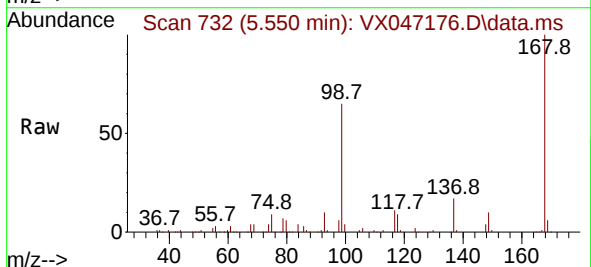
Tgt Ion: 117 Resp: 33953

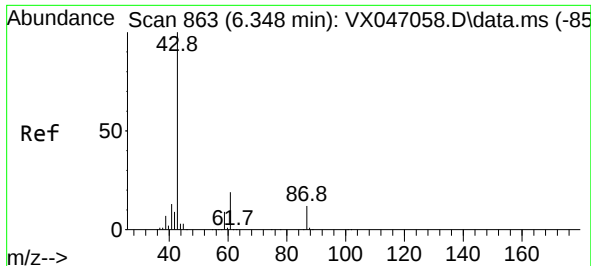
Ion Ratio Lower Upper

117 100

119 4.8 76.6 115.0#

121 0.0 24.4 36.6#

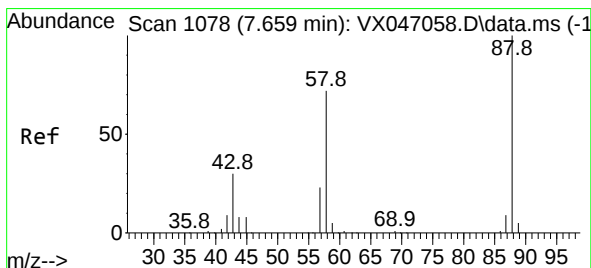
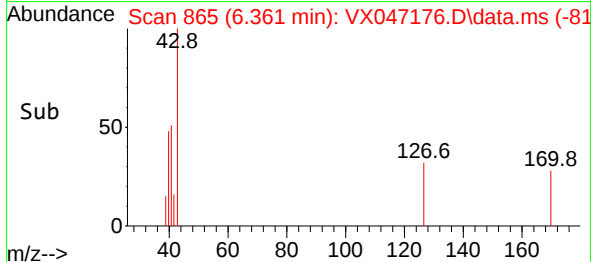
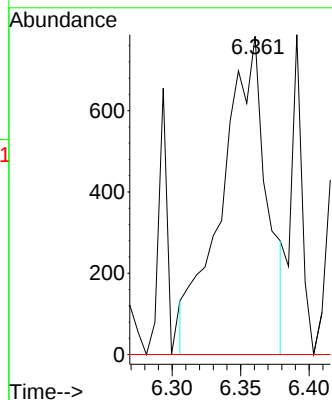
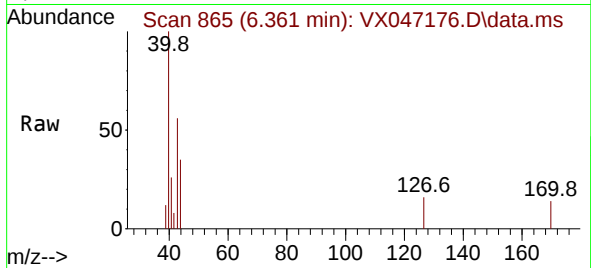




#43
Isopropyl Acetate
Concen: 0.216 ug/l
RT: 6.361 min Scan# 81
Delta R.T. 0.013 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

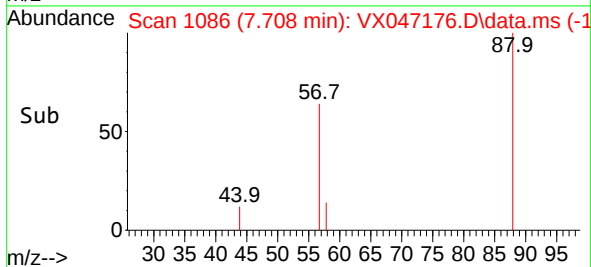
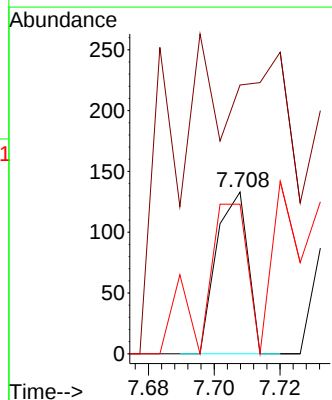
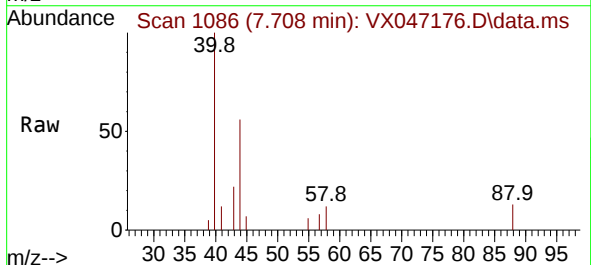
Instrument :
MSVOA_X
ClientSampleId :
50765

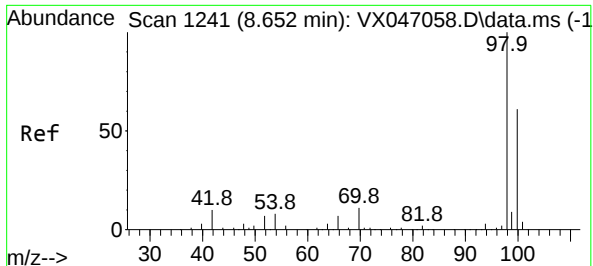
Tgt Ion: 43 Resp: 1787
Ion Ratio Lower Upper
43 100
61 0.0 15.1 22.7#
87 0.0 9.7 14.5#



#49
1,4-Dioxane
Concen: 1.720 ug/l
RT: 7.708 min Scan# 1086
Delta R.T. 0.049 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

Tgt Ion: 88 Resp: 88
Ion Ratio Lower Upper
88 100
43 676.1 33.6 50.4#
58 129.5 58.8 88.2#

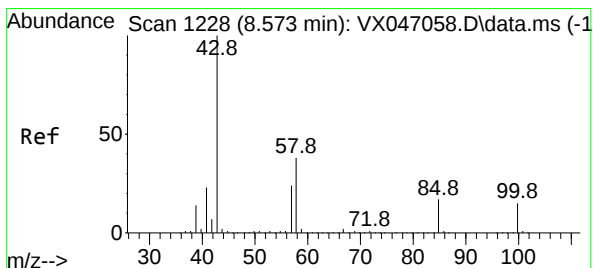
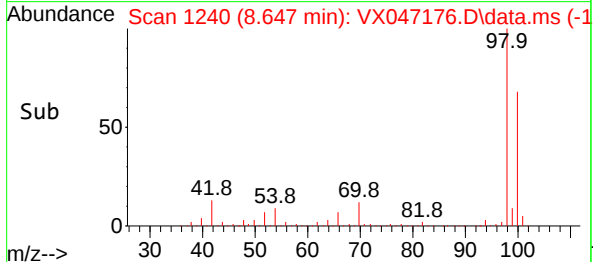
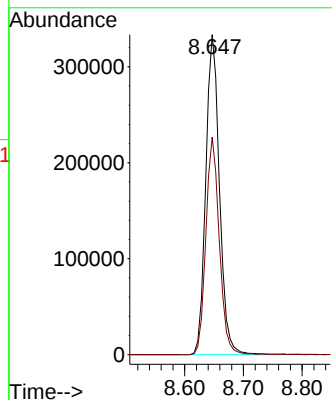
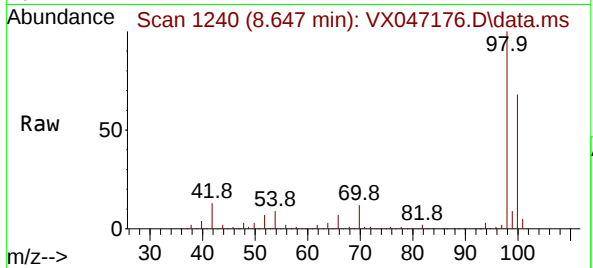




#50
Toluene-d8
Concen: 49.536 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

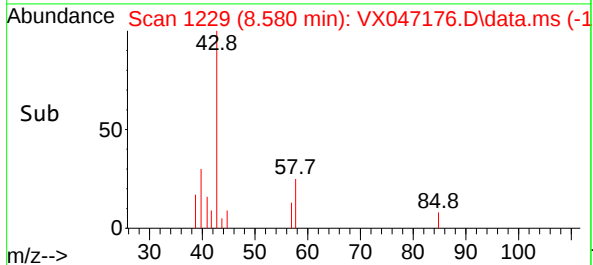
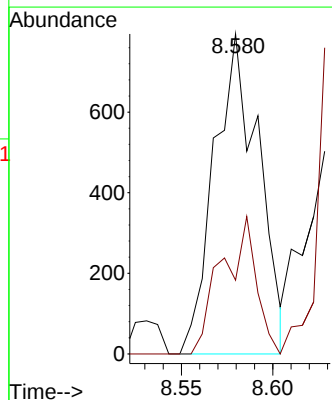
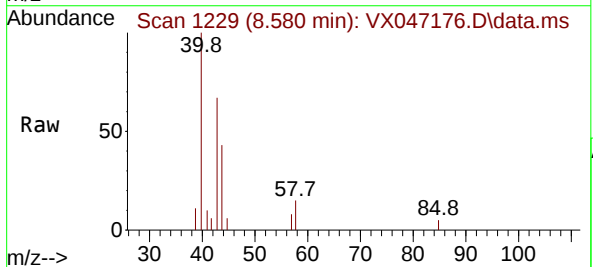
Instrument :
MSVOA_X
ClientSampleId :
50765

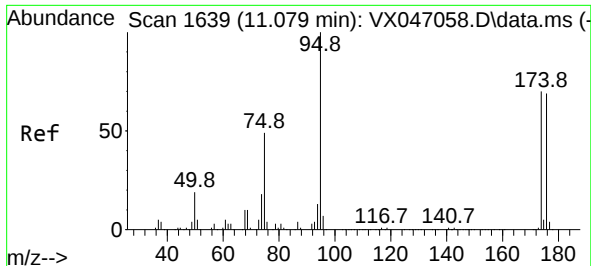
Tgt Ion: 98 Resp: 541095
Ion Ratio Lower Upper
98 100
100 66.7 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 0.272 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

Tgt Ion: 43 Resp: 1336
Ion Ratio Lower Upper
43 100
58 33.6 30.6 45.8

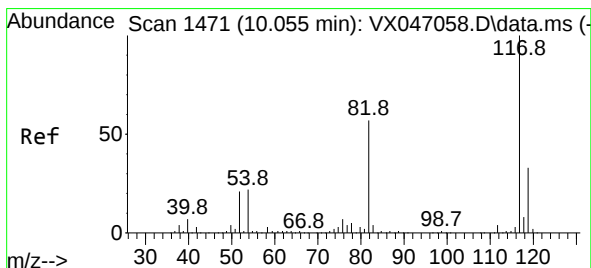
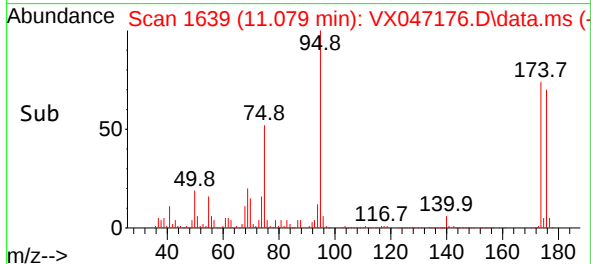
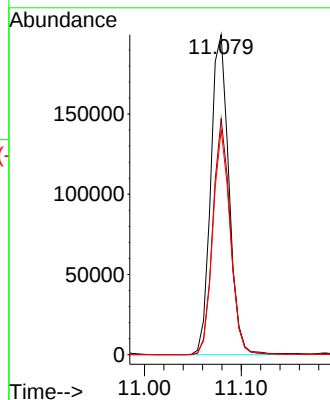
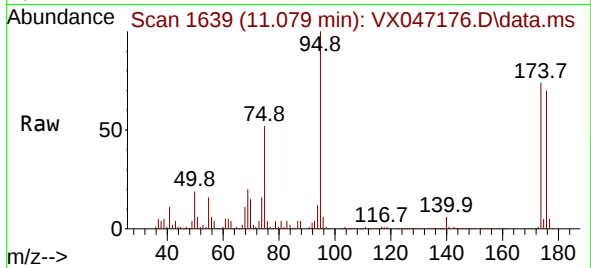




#62
4-Bromofluorobenzene
Concen: 55.329 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

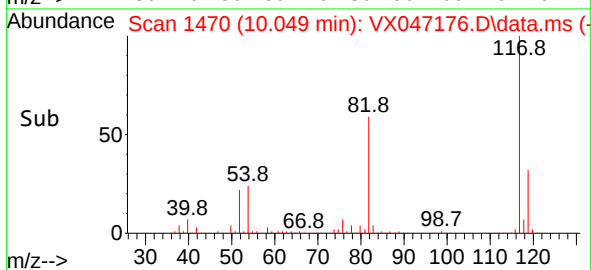
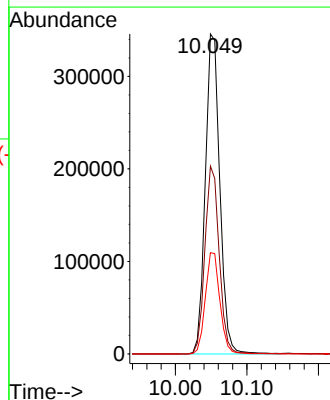
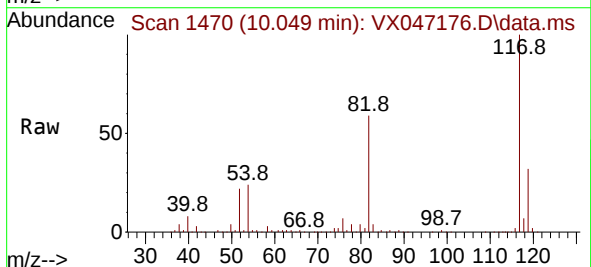
Instrument :
MSVOA_X
ClientSampleId :
50765

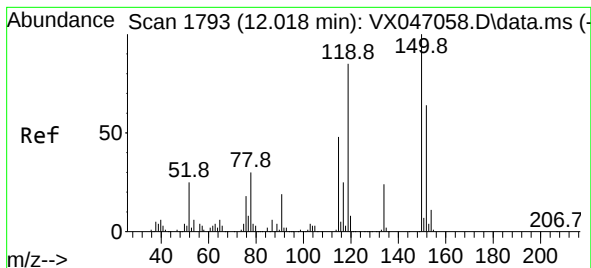
Tgt Ion: 95 Resp: 260450
Ion Ratio Lower Upper
95 100
174 70.8 0.0 144.6
176 67.9 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VX047176.D
Acq: 29 Jul 2025 14:42

Tgt Ion: 117 Resp: 488101
Ion Ratio Lower Upper
117 100
82 58.7 45.4 68.2
119 31.7 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047176.D

Acq: 29 Jul 2025 14:42

Instrument :

MSVOA_X

ClientSampleId :

50765

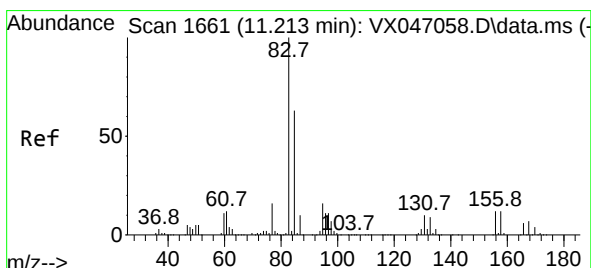
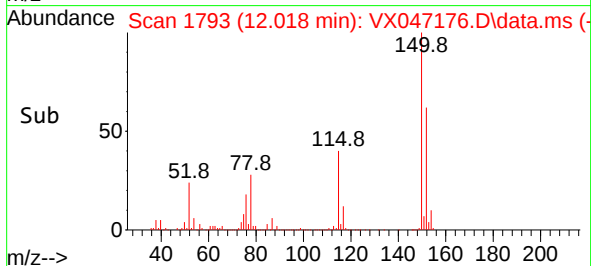
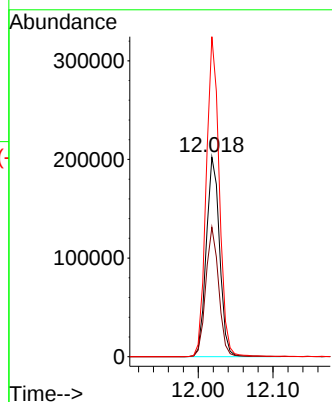
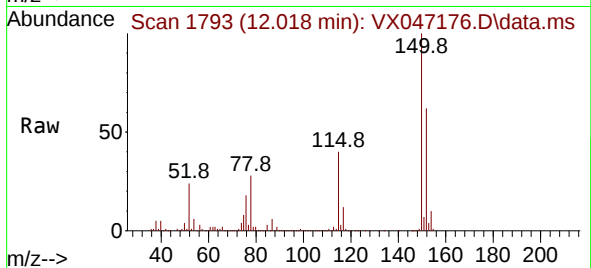
Tgt Ion:152 Resp: 250040

Ion Ratio Lower Upper

152 100

115 63.1 45.6 136.7

150 157.3 0.0 354.6



#75

1,1,2,2-Tetrachloroethane

Concen: 1.321 ug/l

RT: 11.189 min Scan# 1657

Delta R.T. -0.024 min

Lab File: VX047176.D

Acq: 29 Jul 2025 14:42

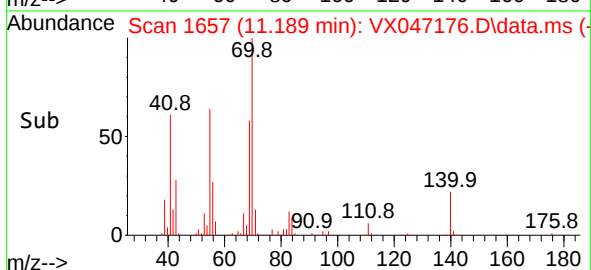
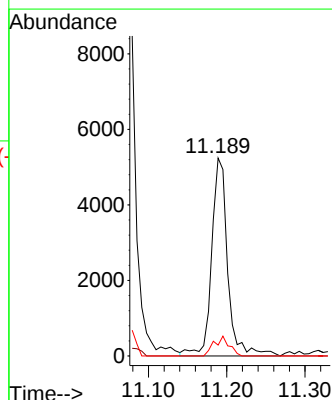
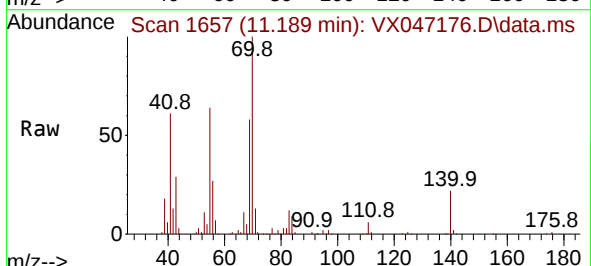
Tgt Ion: 83 Resp: 7446

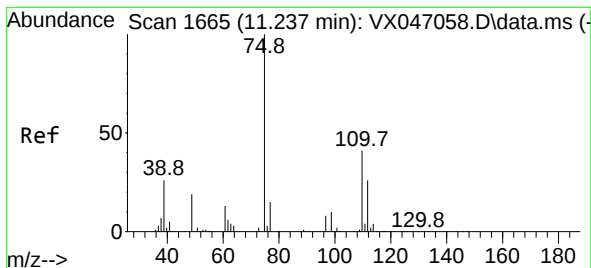
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 9.5 32.0 96.2#





#76

1,2,3-Trichloropropane

Concen: 29.415 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX047176.D

Acq: 29 Jul 2025 14:42

Instrument :

MSVOA_X

ClientSampleId :

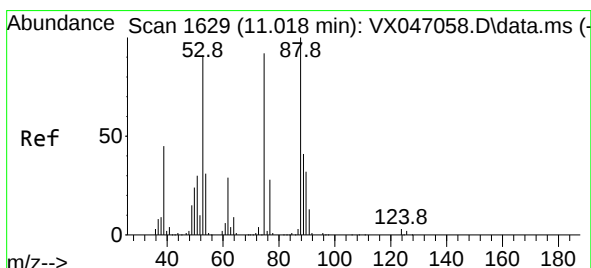
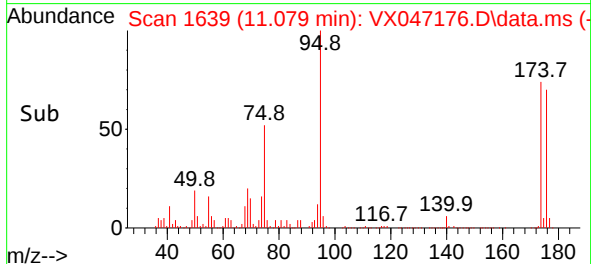
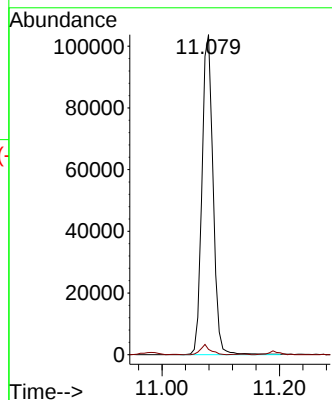
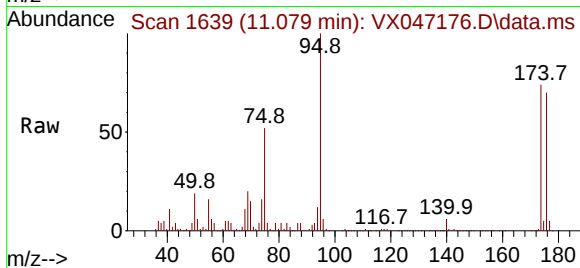
50765

Tgt Ion: 75 Resp: 136137

Ion Ratio Lower Upper

75 100

77 2.8 21.6 65.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 75.785 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX047176.D

Acq: 29 Jul 2025 14:42

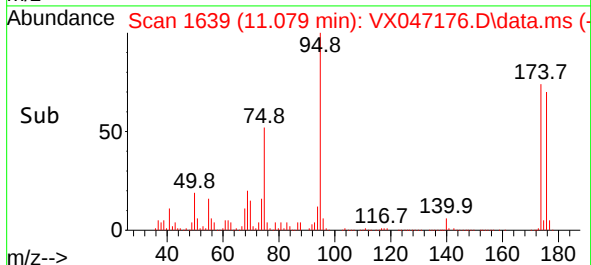
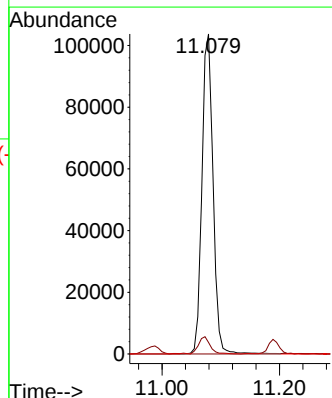
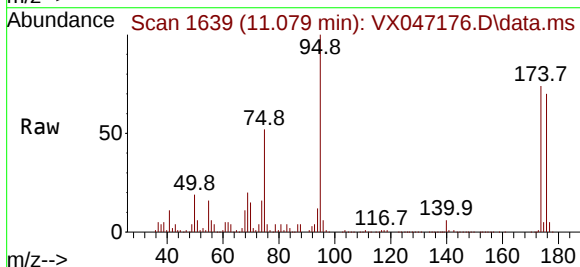
Tgt Ion: 75 Resp: 136137

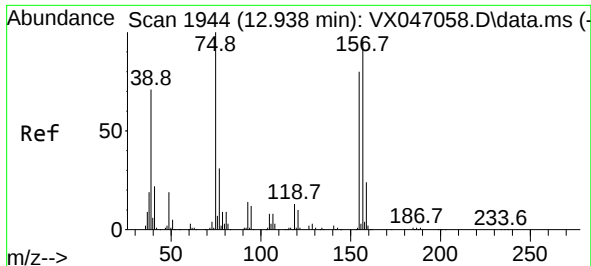
Ion Ratio Lower Upper

75 100

53 5.6 84.2 126.4#

89 0.0 36.0 54.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 30.500 ug/l

RT: 12.774 min Scan# 1944

Delta R.T. -0.164 min

Lab File: VX047176.D

Acq: 29 Jul 2025 14:42

Instrument :

MSVOA_X

ClientSampleId :

50765

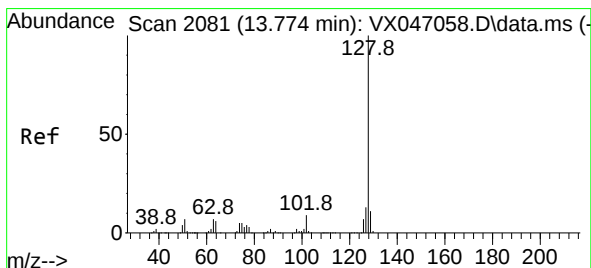
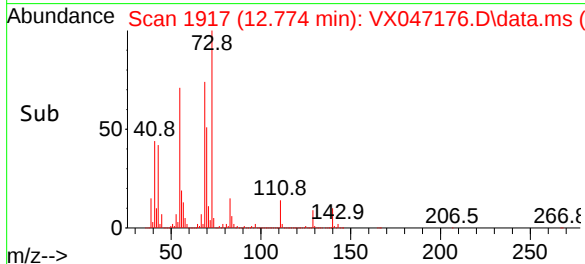
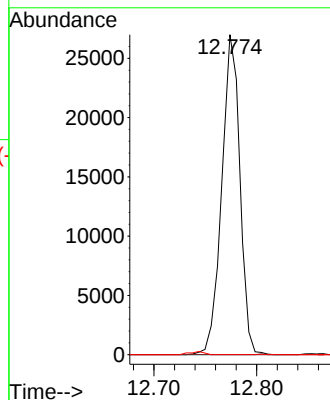
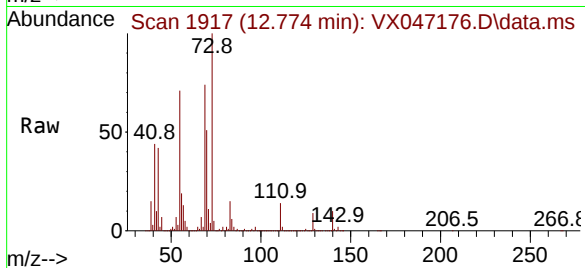
Tgt Ion: 75 Resp: 32989

Ion Ratio Lower Upper

75 100

155 0.0 41.3 124.1#

157 0.0 52.8 158.3#



#95

Naphthalene

Concen: 0.248 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX047176.D

Acq: 29 Jul 2025 14:42

Tgt Ion: 128 Resp: 4132

Ion Ratio Lower Upper

128 100

127 9.7 10.1 15.1#

129 6.7 8.6 13.0#

