

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100925\
 Data File : VX048082.D
 Acq On : 09 Oct 2025 13:39
 Operator : JC/MD
 Sample : Q3311-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1S

Quant Time: Oct 10 01:23:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

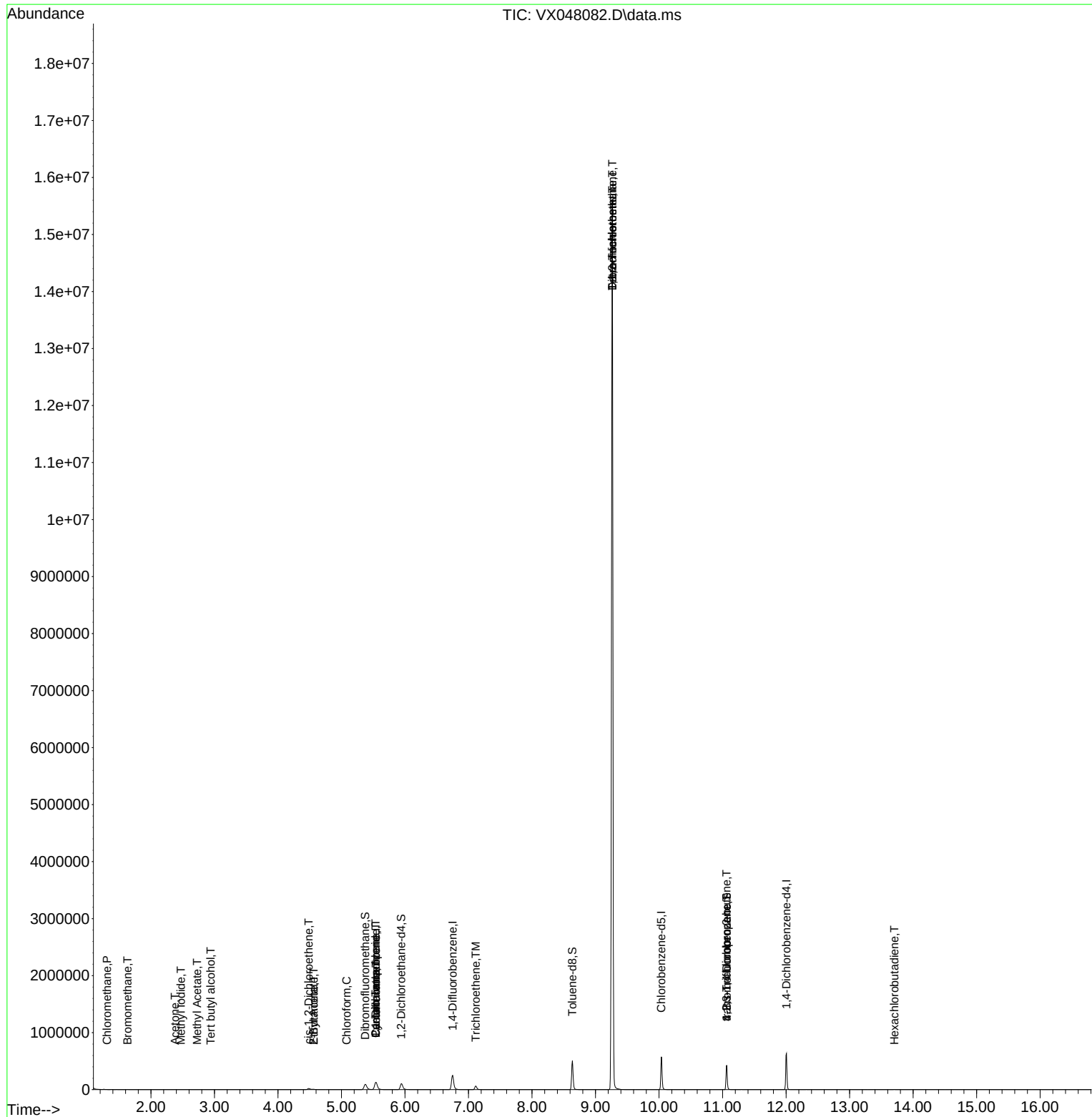
Internal Standards						
1) Pentafluorobenzene	5.544	168	131146	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	272486	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	257011	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	132444	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	112939	54.102	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 108.200%	
35) Dibromofluoromethane	5.373	113	91039	49.818	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.640%	
50) Toluene-d8	8.635	98	309824	48.997	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 98.000%	
62) 4-Bromofluorobenzene	11.067	95	123862	51.613	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 103.220%	
Target Compounds						
						Qvalue
3) Chloromethane	1.307	50	403	0.226	ug/l	96
5) Bromomethane	1.630	94	535	0.483	ug/l #	72
10) Methyl Iodide	2.471	142	1342	0.567	ug/l #	88
11) Tert butyl alcohol	2.940	59	411	1.768	ug/l #	72
16) Acetone	2.380	43	1874	2.065	ug/l #	84
18) Methyl Acetate	2.727	43	718	0.355	ug/l #	61
25) 2-Butanone	4.562	43	10546	9.315	ug/l #	87
27) cis-1,2-Dichloroethene	4.483	96	13327	6.487	ug/l	87
30) Chloroform	5.080	83	908	0.271	ug/l	90
31) Cyclohexane	5.544	56	2873	1.042	ug/l #	13
36) 1,1-Dichloropropene	5.538	75	11291	4.228	ug/l #	52
37) Ethyl Acetate	4.562	43	10546	3.689	ug/l #	71
38) Carbon Tetrachloride	5.538	117	14229	4.904	ug/l #	17
44) Trichloroethene	7.117	130	26022	13.271	ug/l	95
55) 1,1,2-Trichloroethane	9.263	97	28120	14.595	ug/l #	1
60) Dibromochloromethane	9.263	129	2977542	1341.202	ug/l #	11
64) Tetrachloroethene	9.263	164	2927961	1747.576	ug/l	100
76) 1,2,3-Trichloropropane	11.061	75	65736	24.514	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.061	75	65736	62.514	ug/l #	8
94) Hexachlorobutadiene	13.707	225	421	0.435	ug/l	92

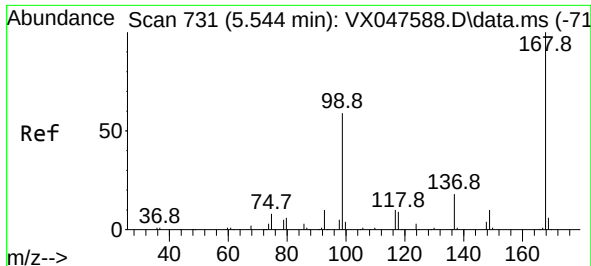
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 10 01:23:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

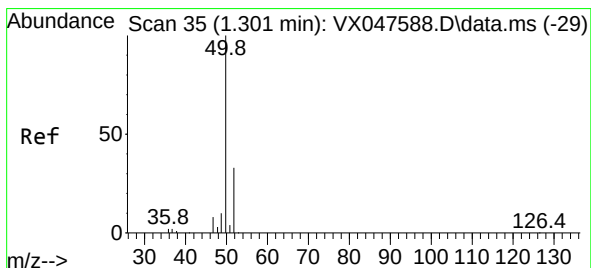
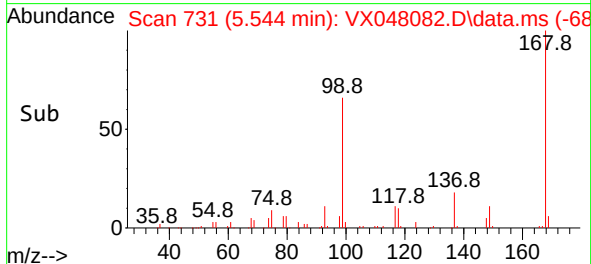
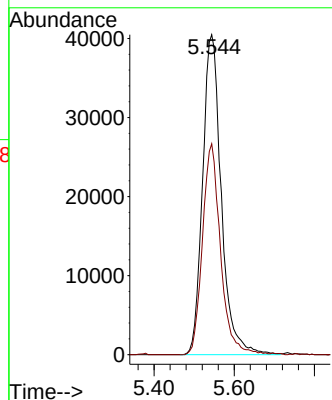
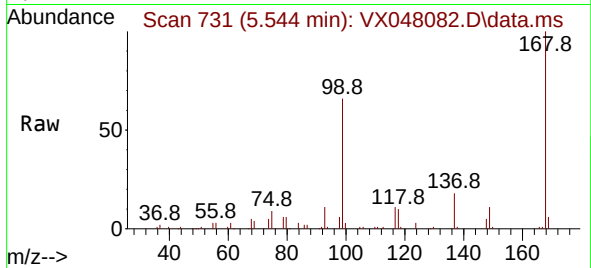




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

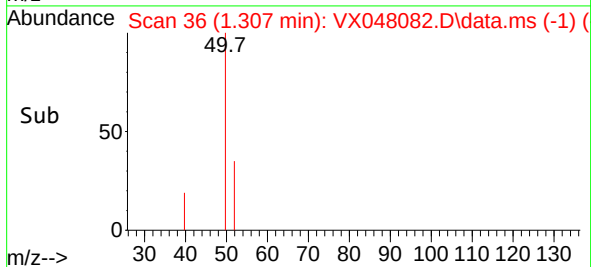
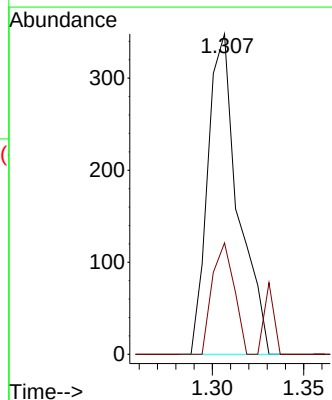
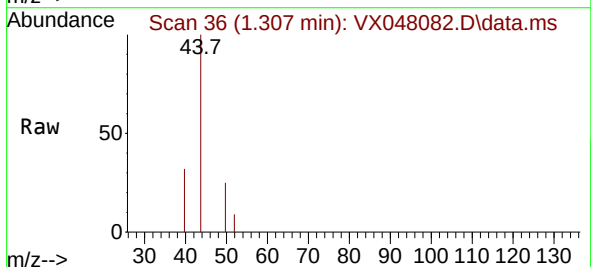
Instrument :
MSVOA_X
ClientSampleId :
MW-1S

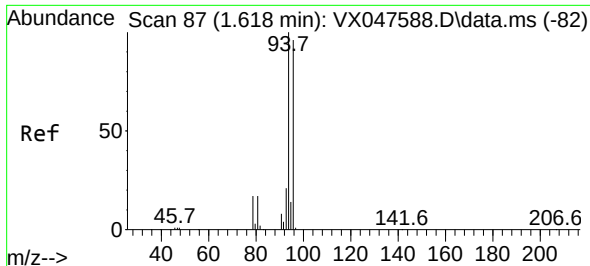
Tgt Ion:168 Resp: 131146
Ion Ratio Lower Upper
168 100
99 65.9 48.8 73.2



#3
Chloromethane
Concen: 0.226 ug/l
RT: 1.307 min Scan# 36
Delta R.T. 0.006 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

Tgt Ion: 50 Resp: 403
Ion Ratio Lower Upper
50 100
52 34.8 26.1 39.1

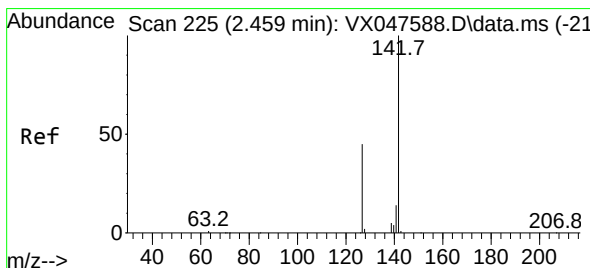
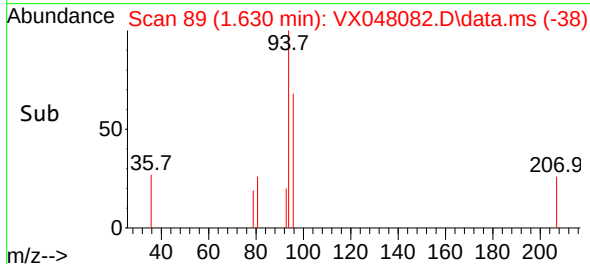
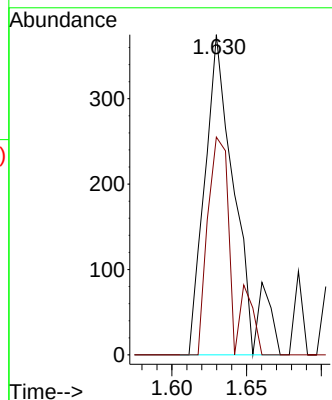
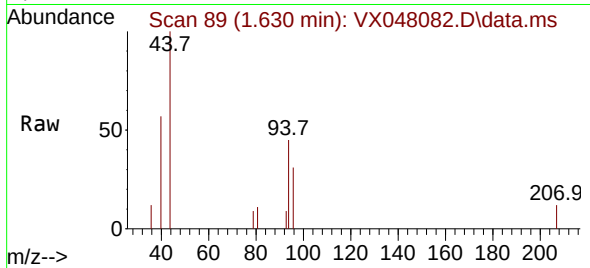




#5
Bromomethane
Concen: 0.483 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

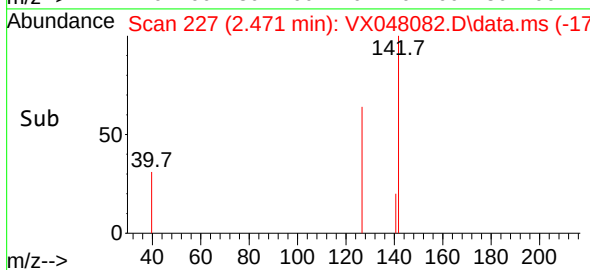
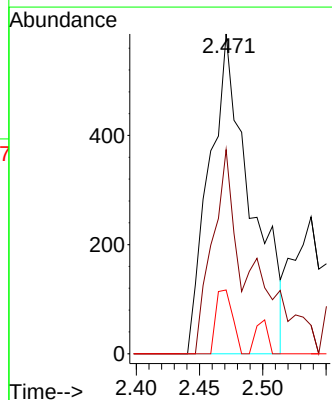
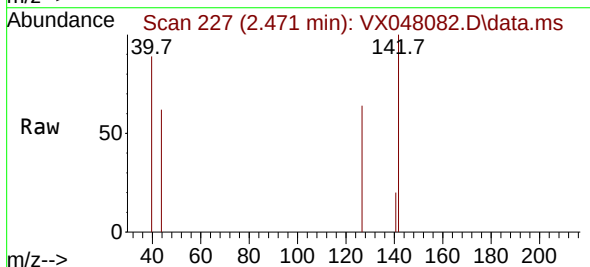
Instrument :
MSVOA_X
ClientSampleId :
MW-1S

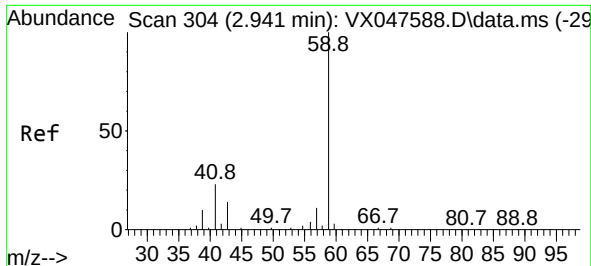
Tgt Ion: 94 Resp: 535
Ion Ratio Lower Upper
94 100
96 68.0 76.6 115.0#



#10
Methyl Iodide
Concen: 0.567 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.012 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

Tgt Ion: 142 Resp: 1342
Ion Ratio Lower Upper
142 100
127 39.0 37.2 55.8
141 7.9 11.4 17.0#

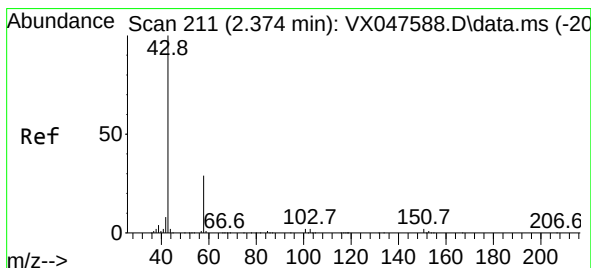
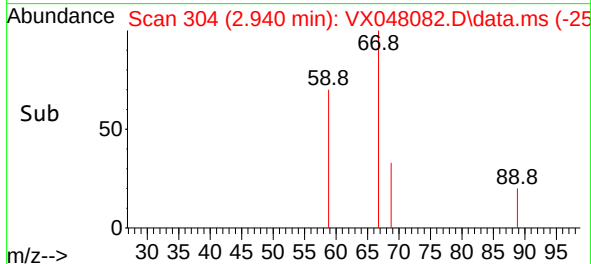
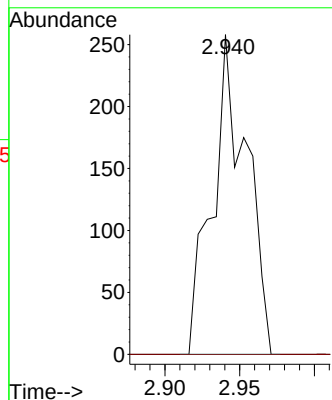
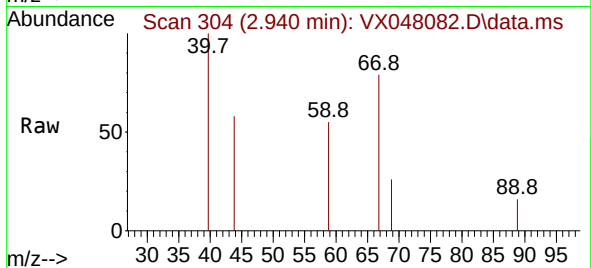




#11
Tert butyl alcohol
Concen: 1.768 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.000 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

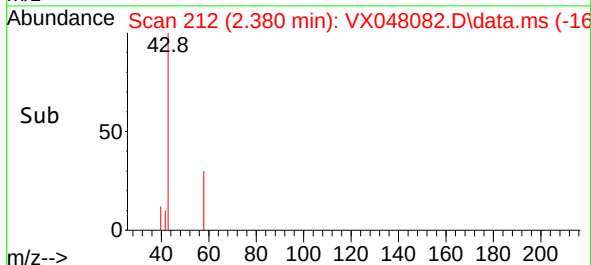
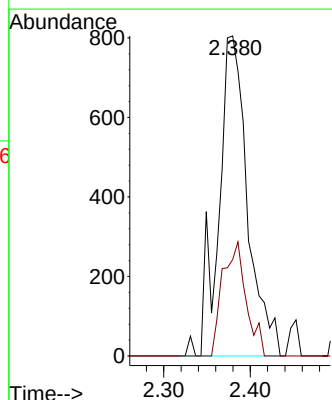
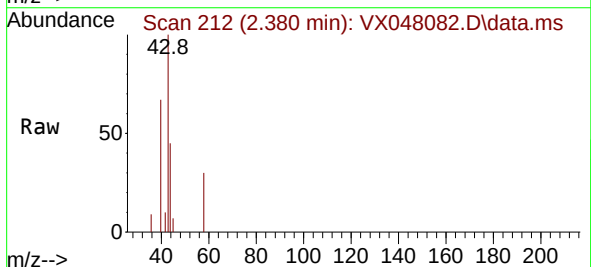
Instrument :
MSVOA_X
ClientSampleId :
MW-1S

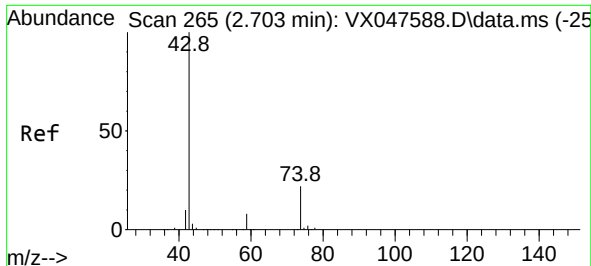
Tgt Ion: 59 Resp: 411
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 2.065 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

Tgt Ion: 43 Resp: 1874
Ion Ratio Lower Upper
43 100
58 20.8 23.4 35.0#





#18

Methyl Acetate

Concen: 0.355 ug/l

RT: 2.727 min Scan# 2

Delta R.T. 0.024 min

Lab File: VX048082.D

Acq: 09 Oct 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

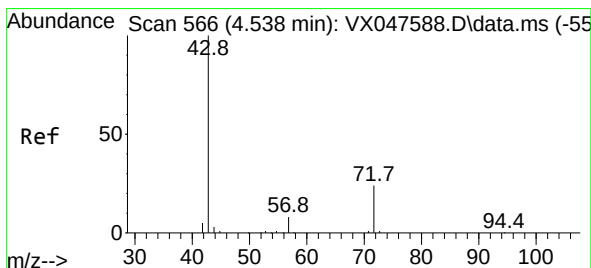
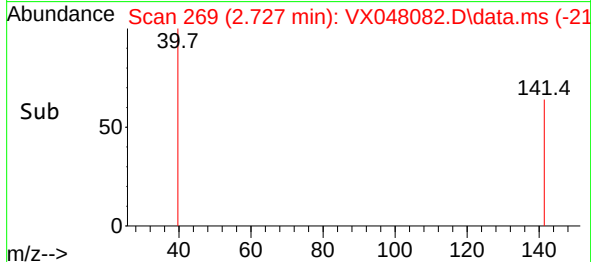
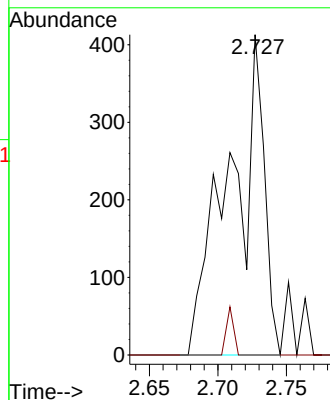
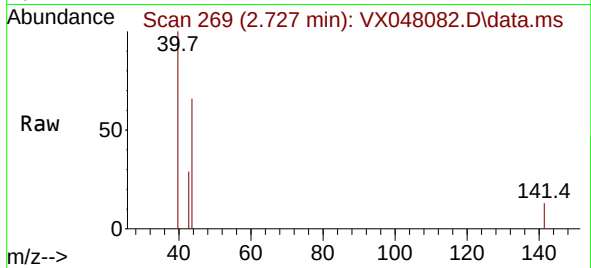
MW-1S

Tgt Ion: 43 Resp: 718

Ion Ratio Lower Upper

43 100

74 3.2 17.4 26.2#



#25

2-Butanone

Concen: 9.315 ug/l

RT: 4.562 min Scan# 570

Delta R.T. 0.024 min

Lab File: VX048082.D

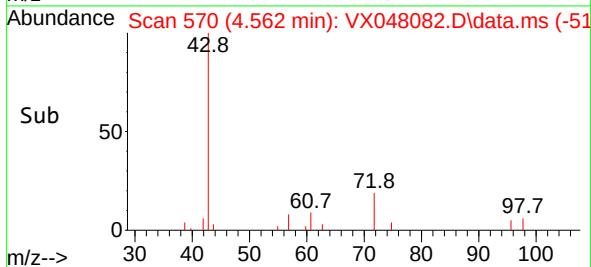
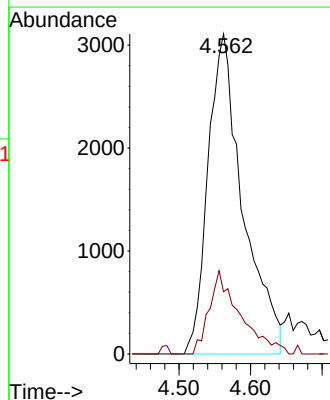
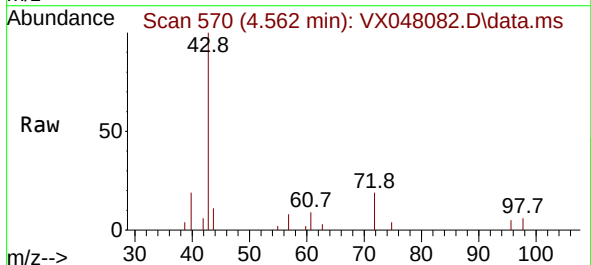
Acq: 09 Oct 2025 13:39

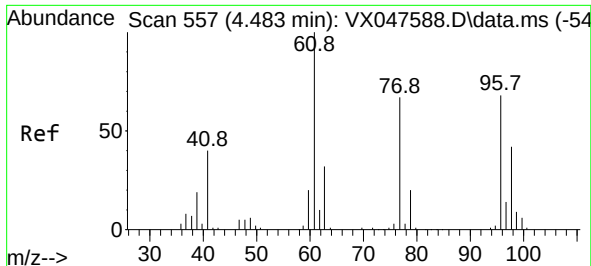
Tgt Ion: 43 Resp: 10546

Ion Ratio Lower Upper

43 100

72 18.5 20.1 30.1#

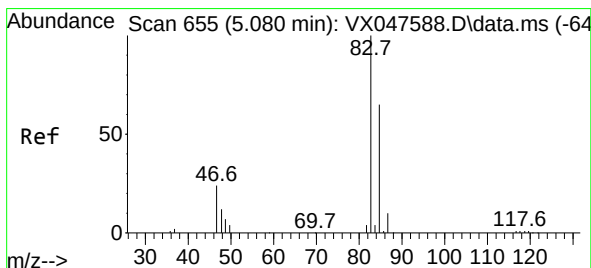
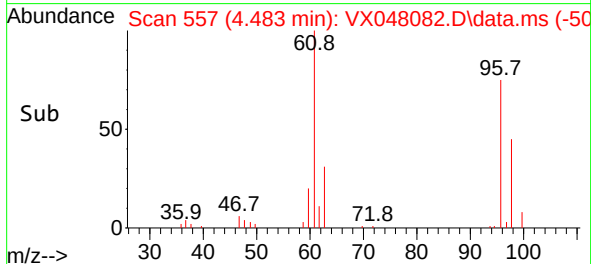
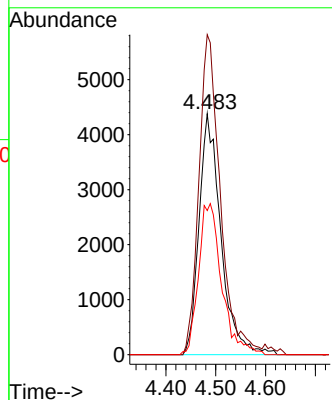
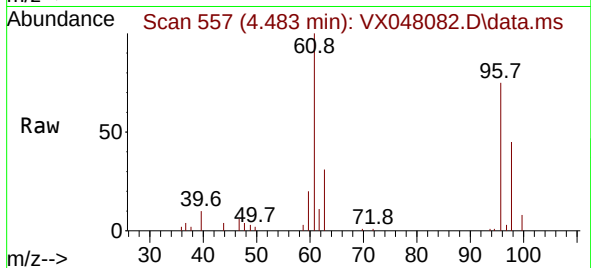




#27
cis-1,2-Dichloroethene
Concen: 6.487 ug/l
RT: 4.483 min Scan# 51
Delta R.T. -0.000 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

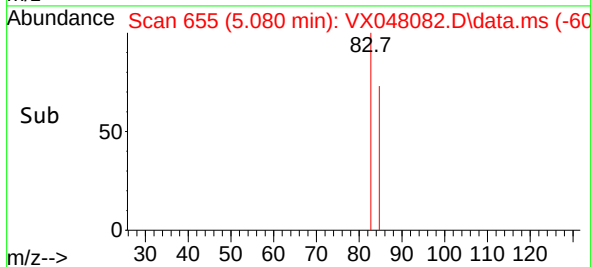
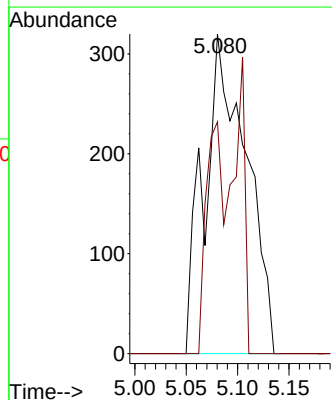
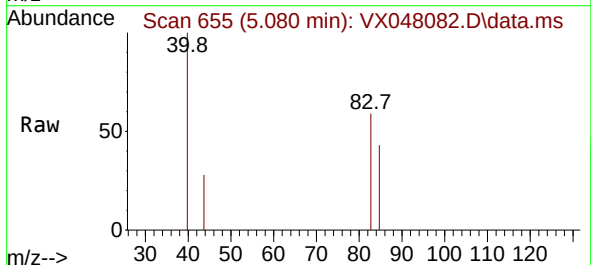
Instrument :
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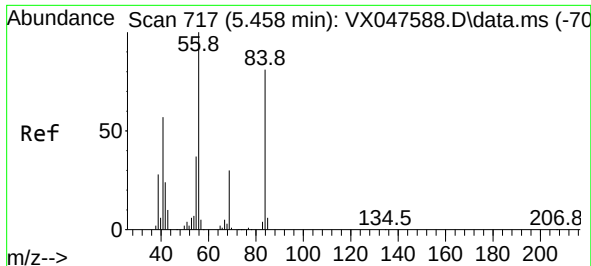
Tgt Ion: 96 Resp: 13327
Ion Ratio Lower Upper
96 100
61 130.6 0.0 303.2
98 66.4 0.0 127.8



#30
Chloroform
Concen: 0.271 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

Tgt Ion: 83 Resp: 908
Ion Ratio Lower Upper
83 100
85 72.5 51.8 77.6

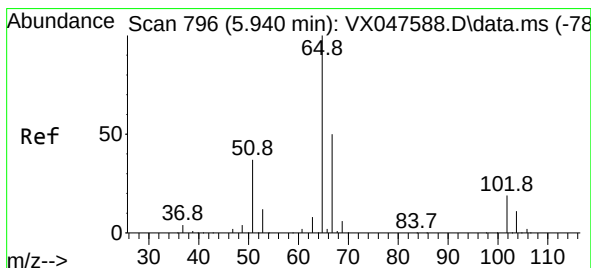
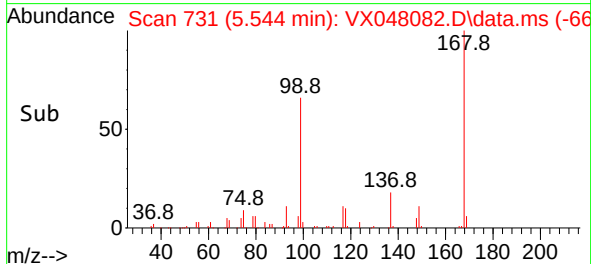
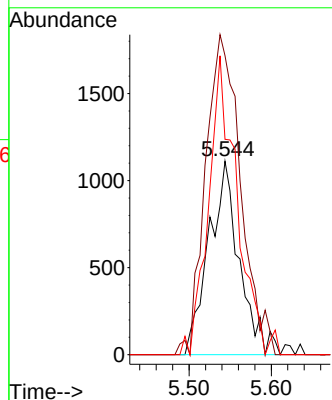
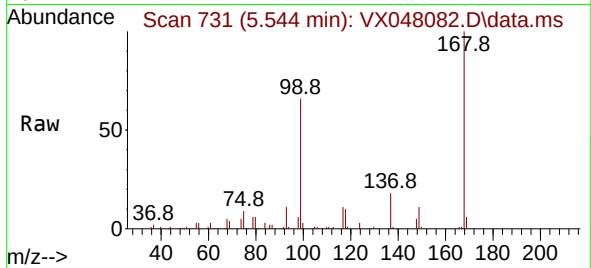




#31
Cyclohexane
Concen: 1.042 ug/l
RT: 5.544 min Scan# 717
Delta R.T. 0.085 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

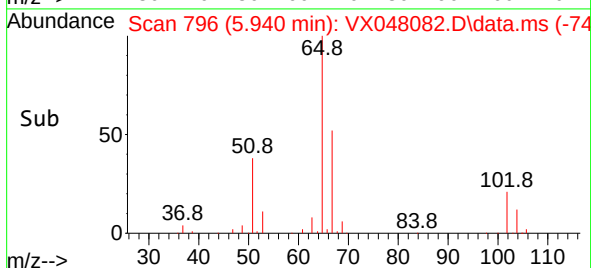
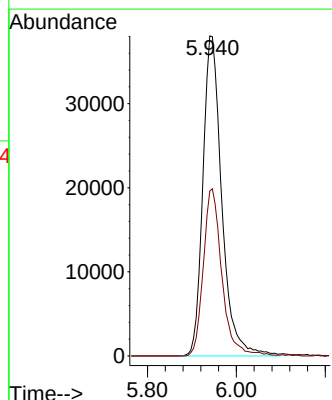
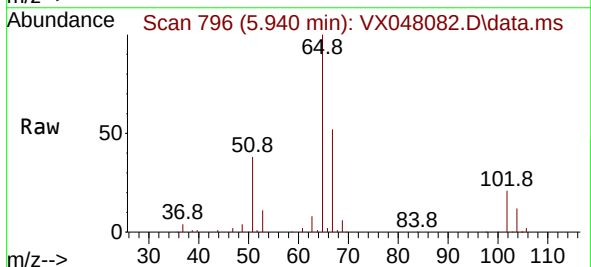
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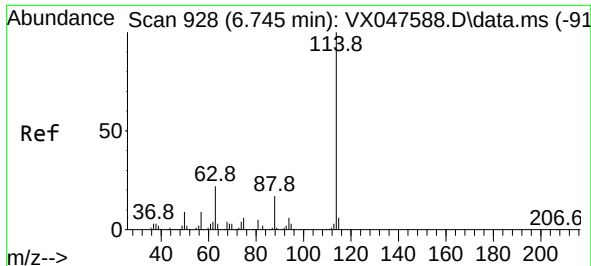
Tgt Ion: 56 Resp: 2873
Ion Ratio Lower Upper
56 100
69 154.6 23.8 35.8#
84 111.3 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 54.102 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

Tgt Ion: 65 Resp: 112939
Ion Ratio Lower Upper
65 100
67 51.2 0.0 103.0

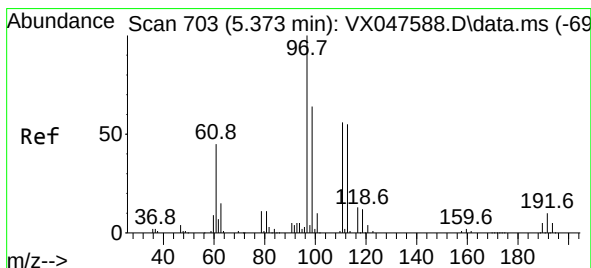
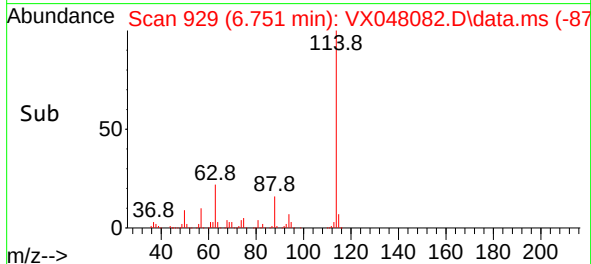
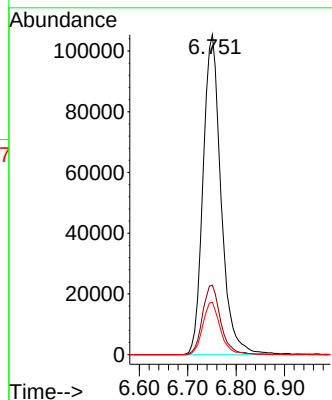
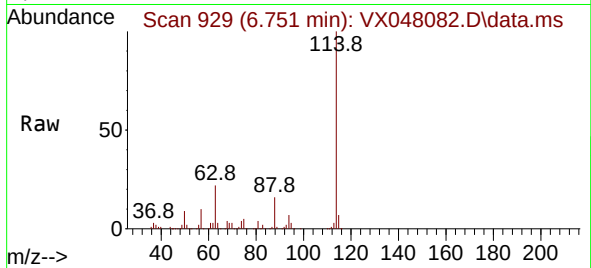




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

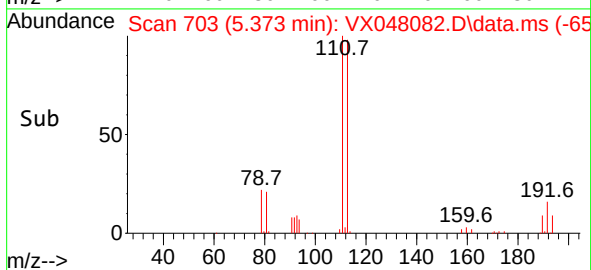
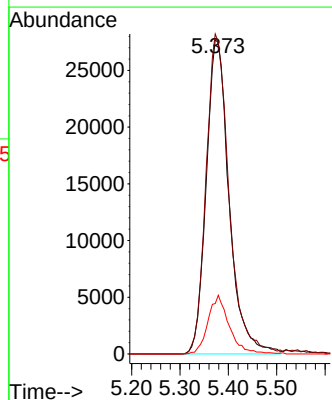
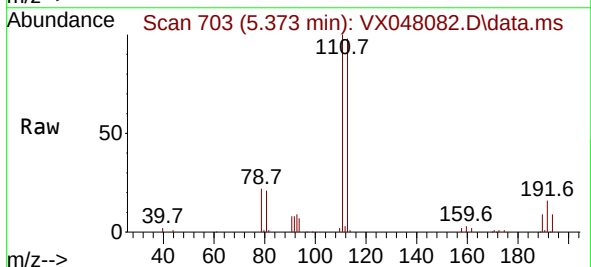
Instrument :
MSVOA_X
ClientSampleId :
MW-1S

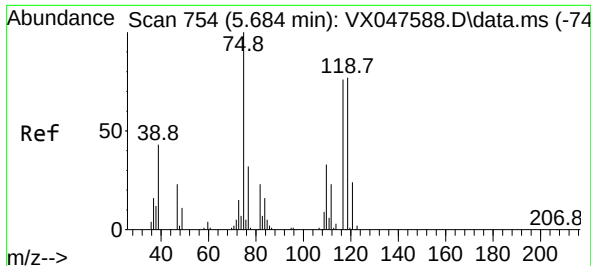
Tgt Ion:114 Resp: 272486
Ion Ratio Lower Upper
114 100
63 21.7 0.0 44.0
88 16.4 0.0 34.2



#35
Dibromofluoromethane
Concen: 49.818 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

Tgt Ion:113 Resp: 91039
Ion Ratio Lower Upper
113 100
111 102.4 80.9 121.3
192 17.4 14.2 21.4

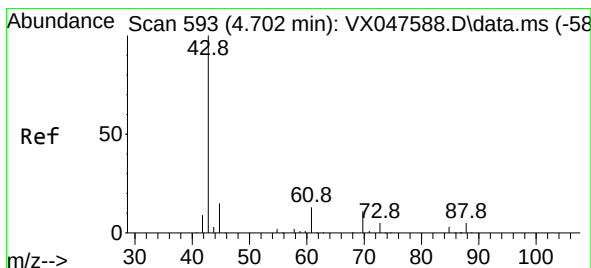
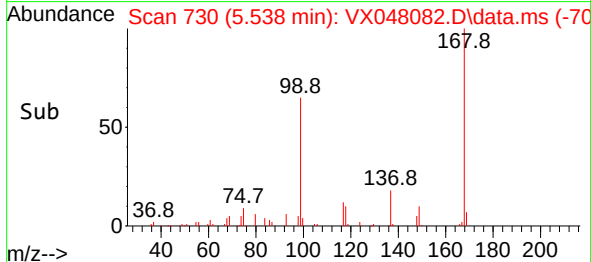
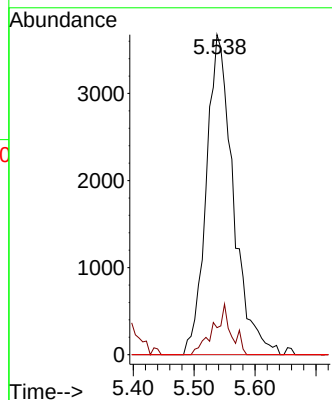
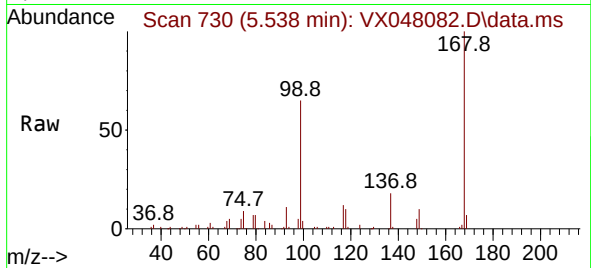




#36
1,1-Dichloropropene
Concen: 4.228 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

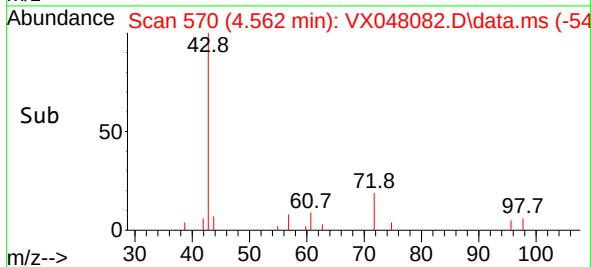
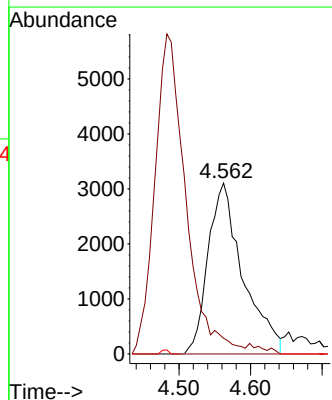
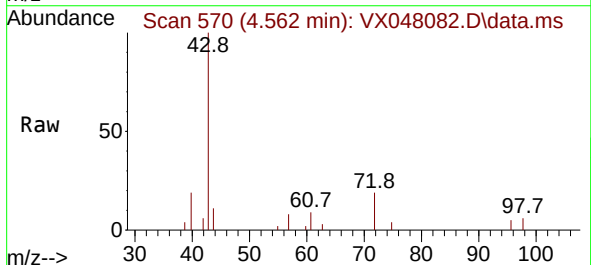
Instrument :
MSVOA_X
ClientSampleId :
MW-1S

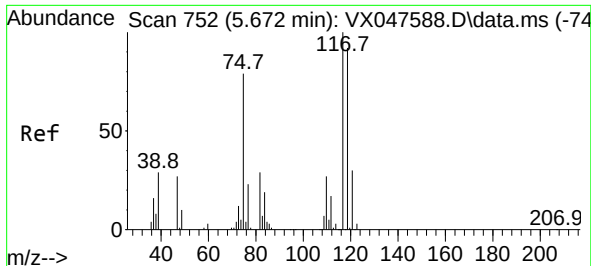
Tgt Ion: 75 Resp: 11291
Ion Ratio Lower Upper
75 100
110 10.5 16.7 50.1#
77 0.0 24.3 36.5#



#37
Ethyl Acetate
Concen: 3.689 ug/l
RT: 4.562 min Scan# 570
Delta R.T. -0.140 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

Tgt Ion: 43 Resp: 10546
Ion Ratio Lower Upper
43 100
61 0.0 9.8 14.8#
70 0.0 7.9 11.9#

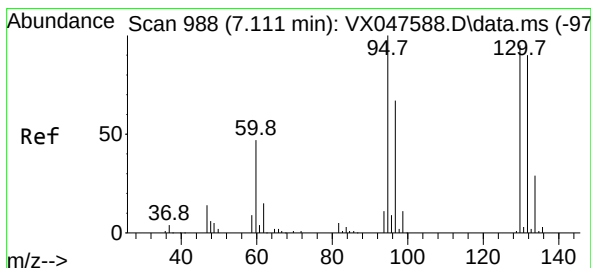
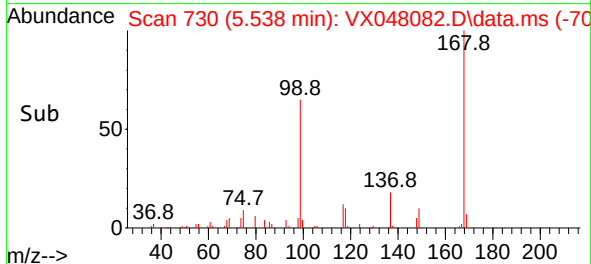
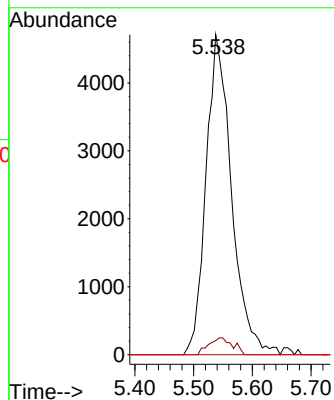
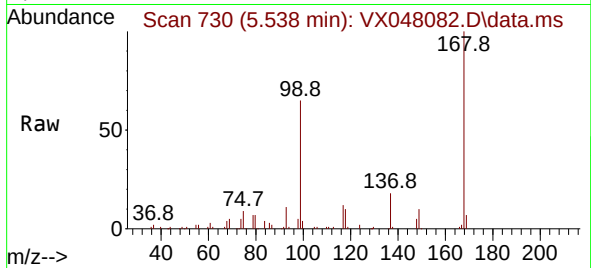




#38
Carbon Tetrachloride
Concen: 4.904 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

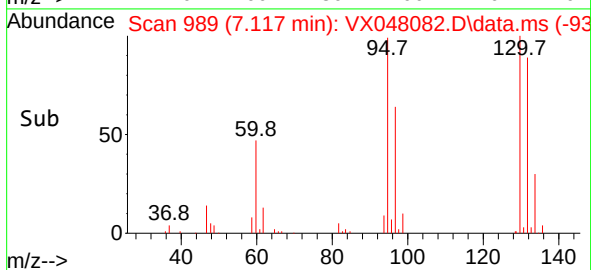
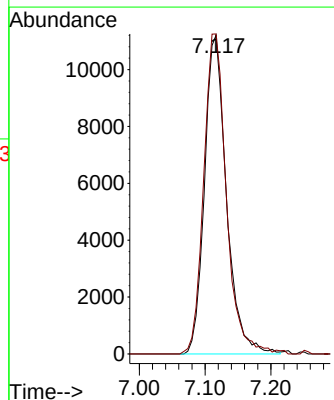
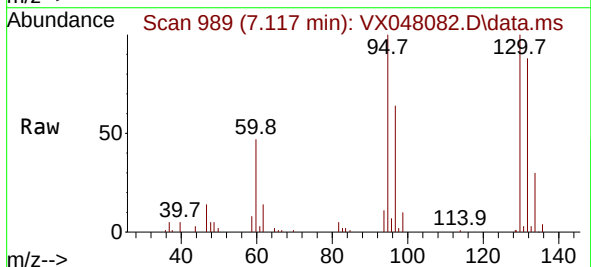
Instrument :
MSVOA_X
ClientSampleId :
MW-1S

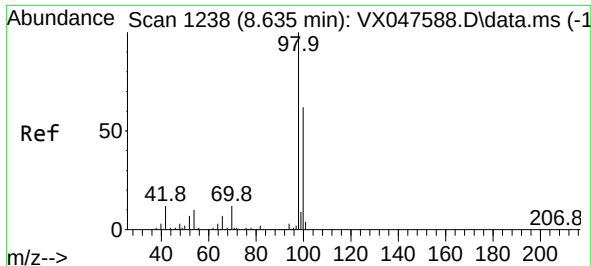
Tgt Ion:117 Resp: 14229
Ion Ratio Lower Upper
117 100
119 4.4 73.4 110.2#
121 0.0 23.8 35.6#



#44
Trichloroethene
Concen: 13.271 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

Tgt Ion:130 Resp: 26022
Ion Ratio Lower Upper
130 100
95 100.4 0.0 210.8

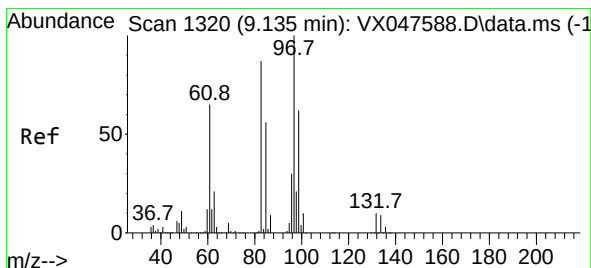
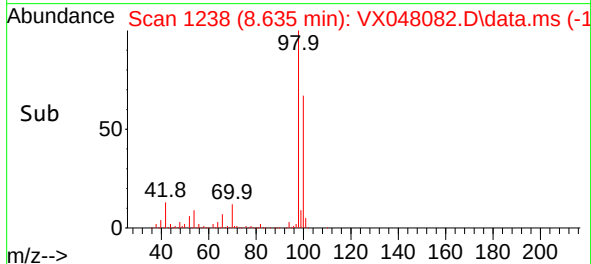
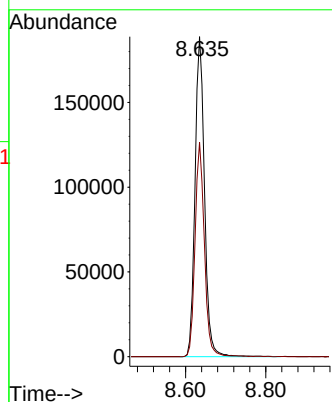
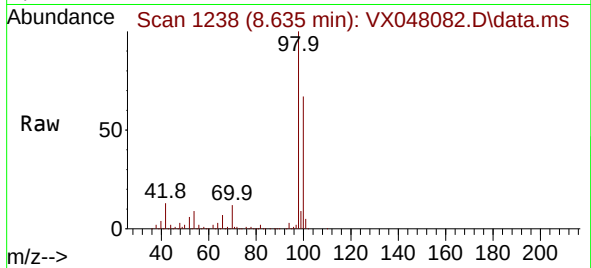




#50
Toluene-d8
Concen: 48.997 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

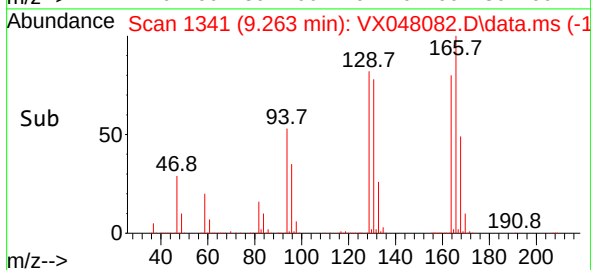
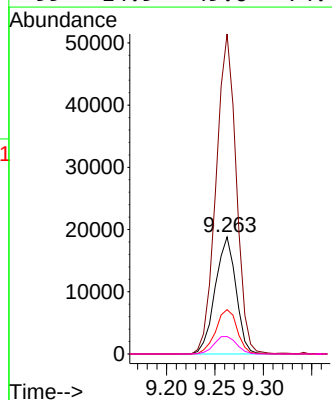
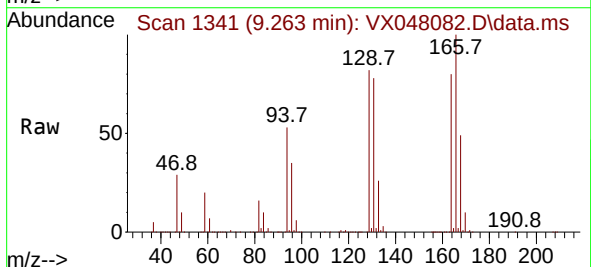
Instrument :
MSVOA_X
ClientSampleId :
MW-1S

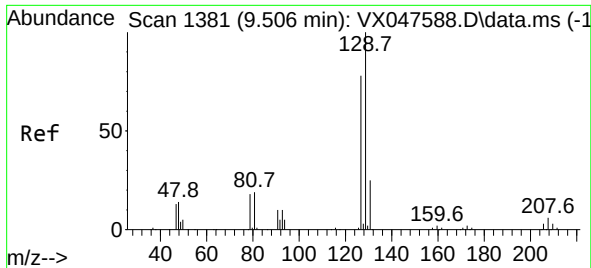
Tgt Ion: 98 Resp: 309824
Ion Ratio Lower Upper
98 100
100 66.0 53.0 79.4



#55
1,1,2-Trichloroethane
Concen: 14.595 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. 0.128 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

Tgt Ion: 97 Resp: 28120
Ion Ratio Lower Upper
97 100
83 273.6 69.6 104.4#
85 37.9 45.0 67.6#
99 14.9 49.6 74.4#

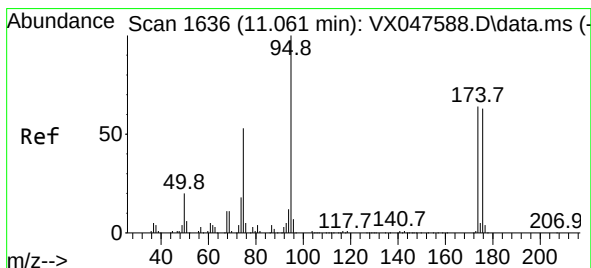
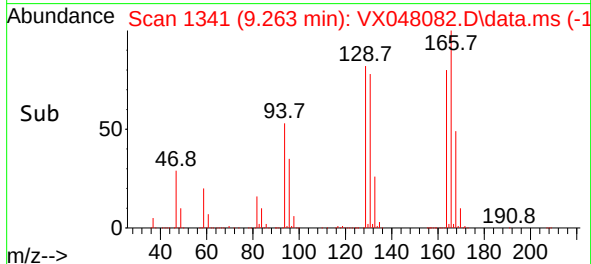
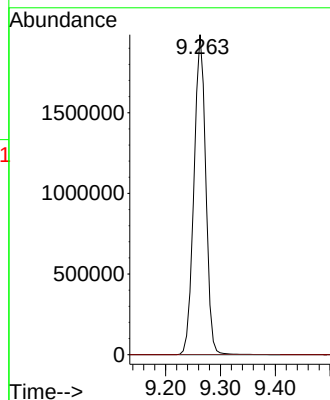
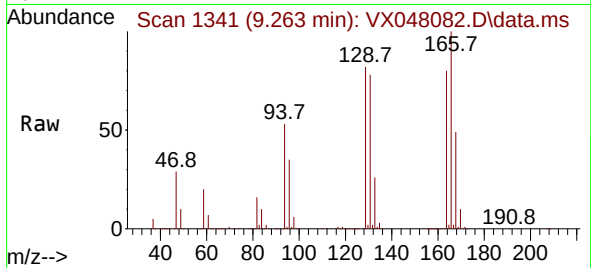




#60
Dibromochloromethane
Concen: 1341.202 ug/l
RT: 9.263 min Scan# 11
Delta R.T. -0.244 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

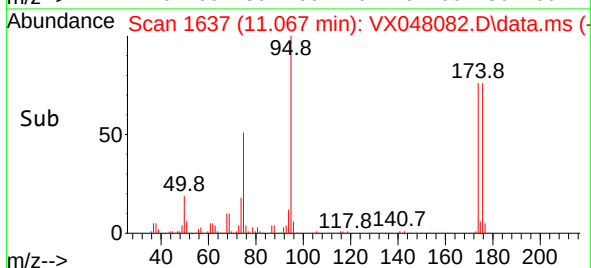
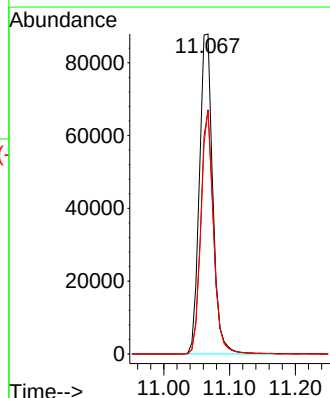
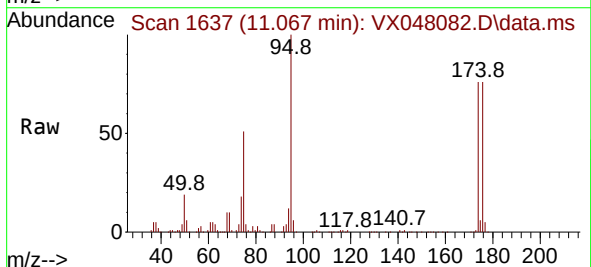
Instrument :
MSVOA_X
ClientSampleId :
MW-1S

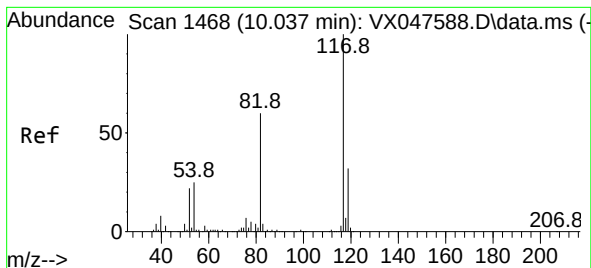
Tgt Ion:129 Resp: 2977542
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 51.613 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

Tgt Ion: 95 Resp: 123862
Ion Ratio Lower Upper
95 100
174 72.8 0.0 141.6
176 71.2 0.0 138.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048082.D

Acq: 09 Oct 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

MW-1S

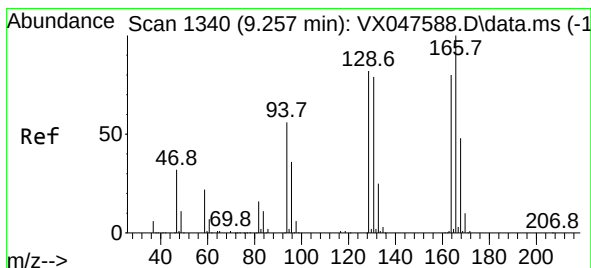
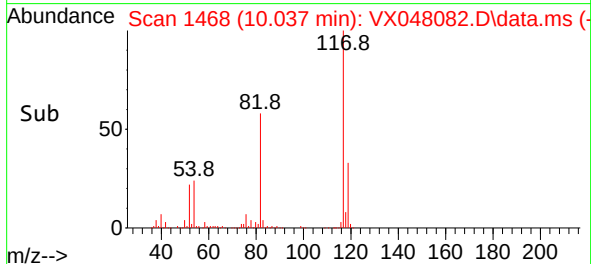
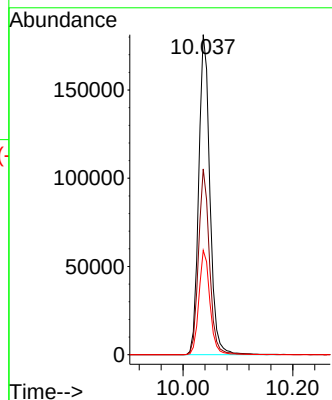
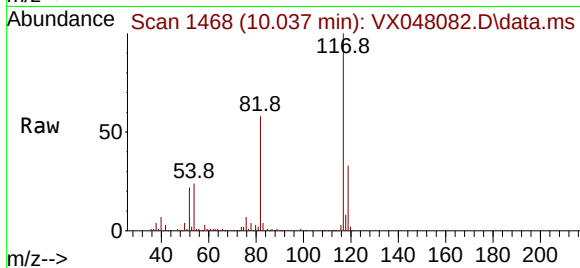
Tgt Ion:117 Resp: 257011

Ion Ratio Lower Upper

117 100

82 58.1 47.8 71.6

119 32.6 25.2 37.8



#64

Tetrachloroethene

Concen: 1747.576 ug/l

RT: 9.263 min Scan# 1341

Delta R.T. 0.006 min

Lab File: VX048082.D

Acq: 09 Oct 2025 13:39

Tgt Ion:164 Resp: 2927961

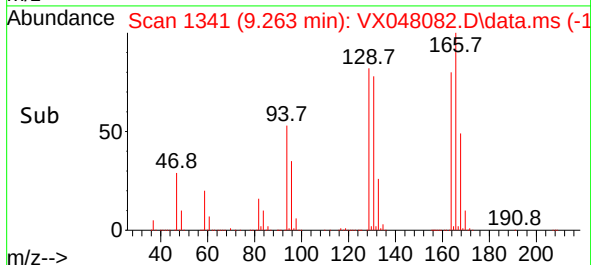
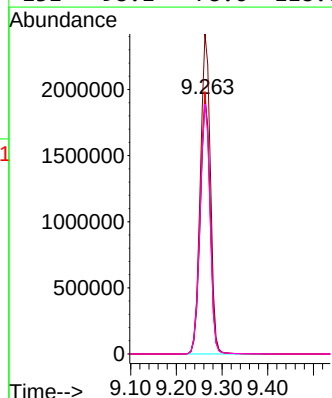
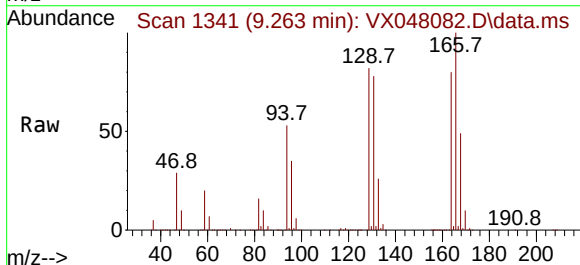
Ion Ratio Lower Upper

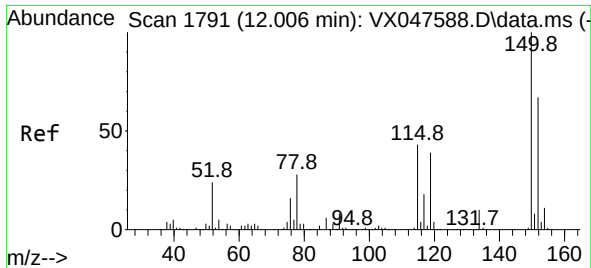
164 100

166 125.5 100.2 150.2

129 102.9 81.8 122.6

131 98.1 78.6 118.0

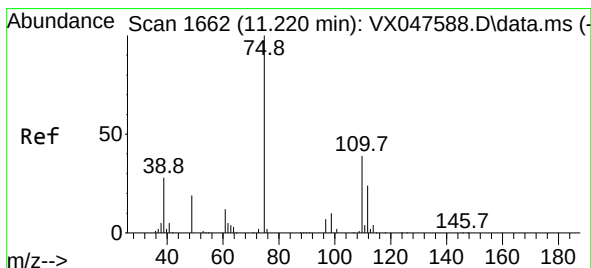
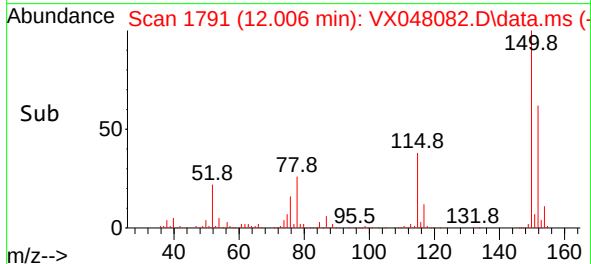
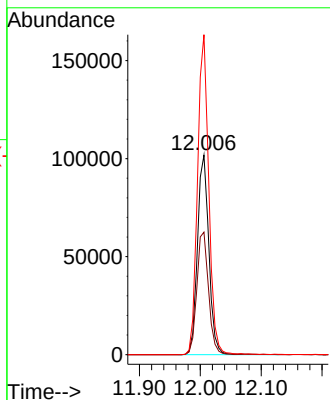
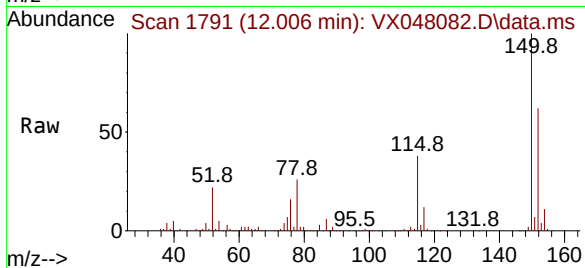




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VX048082.D
 Acq: 09 Oct 2025 13:39

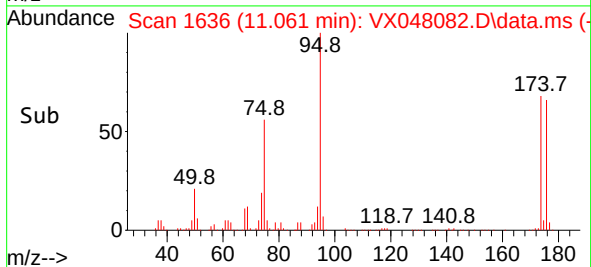
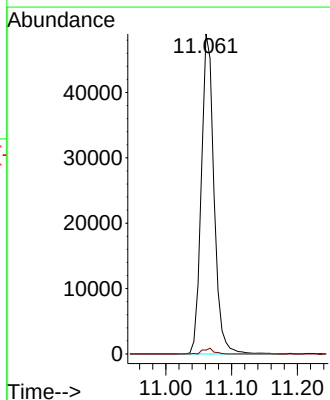
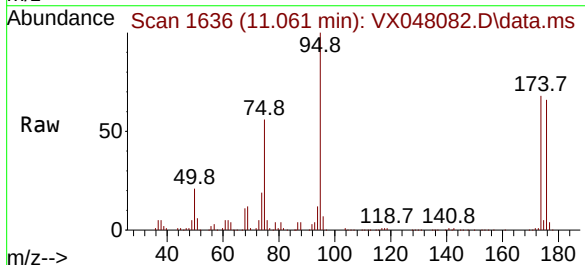
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1S

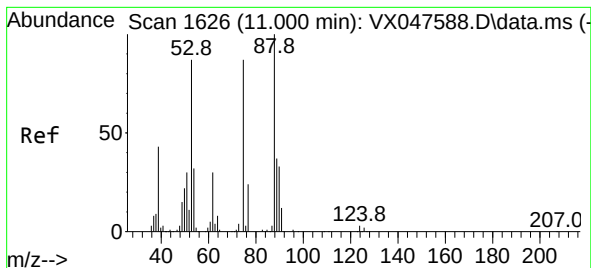
Tgt Ion:152 Resp: 132444
 Ion Ratio Lower Upper
 152 100
 115 62.8 44.9 134.5
 150 158.0 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 24.514 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048082.D
 Acq: 09 Oct 2025 13:39

Tgt Ion: 75 Resp: 65736
 Ion Ratio Lower Upper
 75 100
 77 1.5 18.8 56.4#

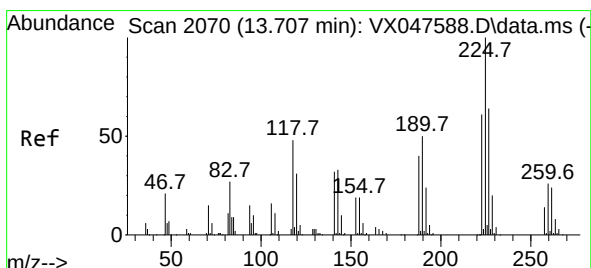
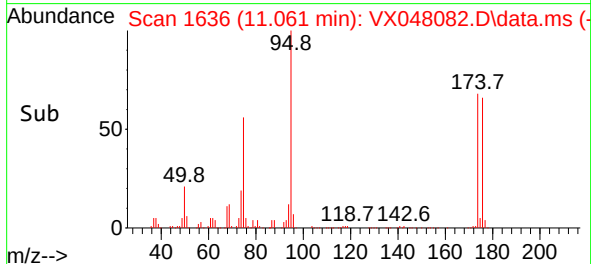
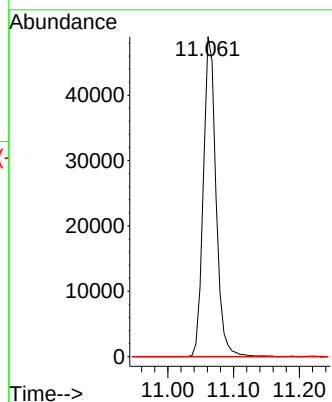
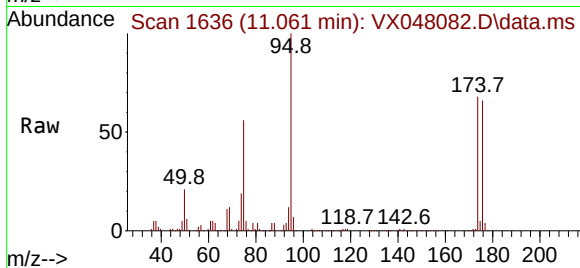




#81
trans-1,4-Dichloro-2-butene
Concen: 62.514 ug/l
RT: 11.061 min Scan# 11
Delta R.T. 0.061 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :
MW-1S

Tgt Ion: 75 Resp: 65736
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#94
Hexachlorobutadiene
Concen: 0.435 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX048082.D
Acq: 09 Oct 2025 13:39

Tgt Ion: 225 Resp: 421
Ion Ratio Lower Upper
225 100
223 60.6 31.7 95.1
227 54.4 32.0 96.0

