

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101025\
 Data File : VX048106.D
 Acq On : 10 Oct 2025 13:11
 Operator : JC/MD
 Sample : Q3324-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-184-EB-20251009

Quant Time: Oct 10 23:47:15 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)

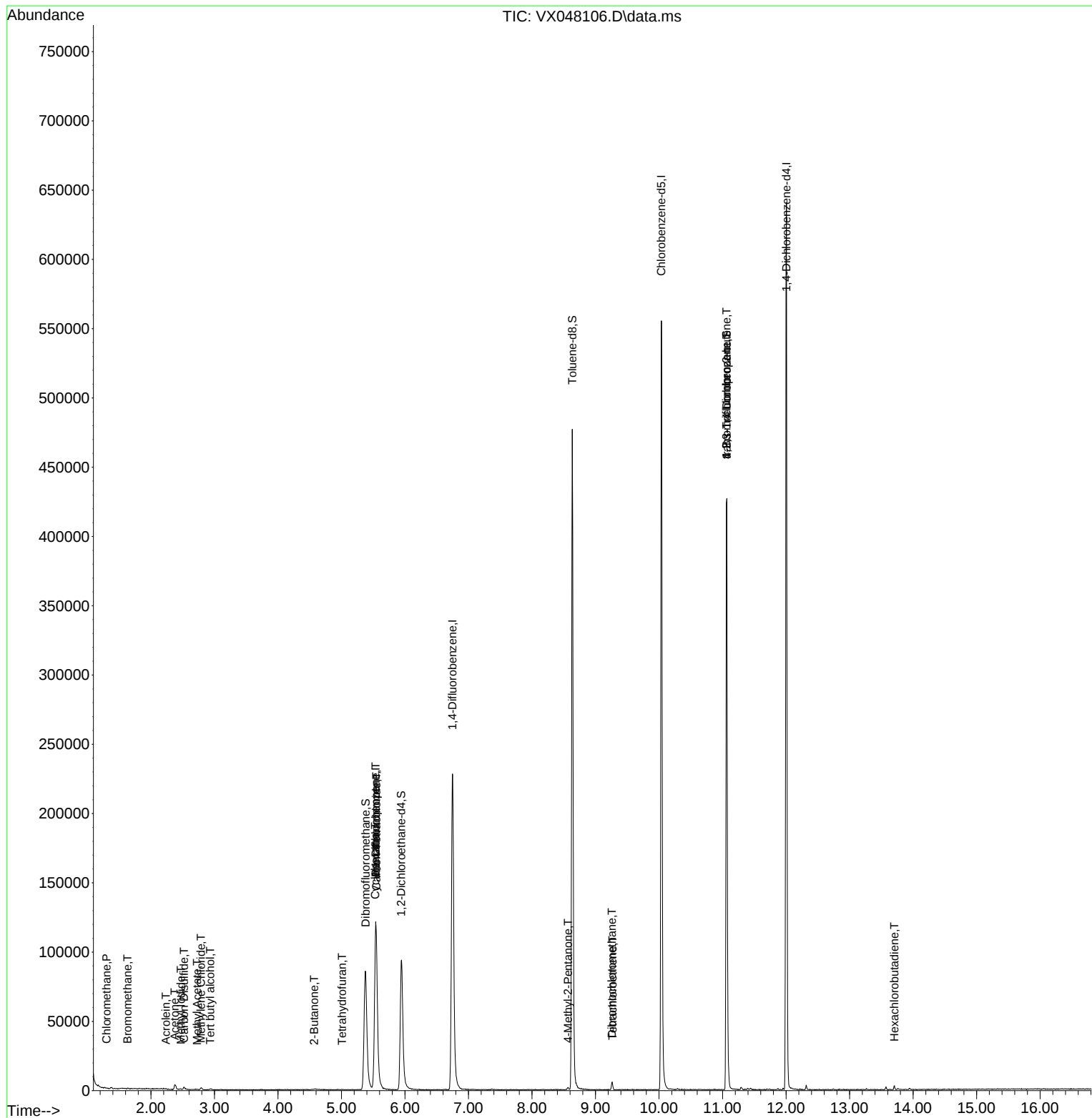
Internal Standards						
1) Pentafluorobenzene	5.538	168	120424	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	251895	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	260599	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	134745	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	103011	53.740	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 107.480%	
35) Dibromofluoromethane	5.379	113	84409	49.965	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.940%	
50) Toluene-d8	8.635	98	289751	49.568	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 99.140%	
62) 4-Bromofluorobenzene	11.061	95	126215	56.893	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 113.780%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.301	50	380	0.232	ug/l	98
5) Bromomethane	1.630	94	231	0.227	ug/l	92
10) Methyl Iodide	2.471	142	723	0.333	ug/l #	93
11) Tert butyl alcohol	2.934	59	64	0.300	ug/l #	72
13) Acrolein	2.233	56	42	0.213	ug/l #	14
16) Acetone	2.373	43	4969	5.962	ug/l	98
17) Carbon Disulfide	2.520	76	1740	0.444	ug/l #	76
18) Methyl Acetate	2.727	43	521	0.281	ug/l #	54
20) Methylene Chloride	2.788	84	701	0.397	ug/l	84
25) 2-Butanone	4.568	43	267	0.257	ug/l #	84
29) Tetrahydrofuran	5.007	42	155	0.248	ug/l #	34
31) Cyclohexane	5.531	56	2793	1.103	ug/l #	1
36) 1,1-Dichloropropene	5.538	75	10556	4.276	ug/l #	49
38) Carbon Tetrachloride	5.550	117	13161	4.907	ug/l #	17
51) 4-Methyl-2-Pentanone	8.568	43	1211	0.504	ug/l #	86
60) Dibromochloromethane	9.256	129	933	0.455	ug/l #	11
64) Tetrachloroethene	9.269	164	1155	0.680	ug/l #	59
76) 1,2,3-Trichloropropane	11.061	75	65970	24.181	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	65970	61.665	ug/l #	8
94) Hexachlorobutadiene	13.707	225	464	0.471	ug/l	95

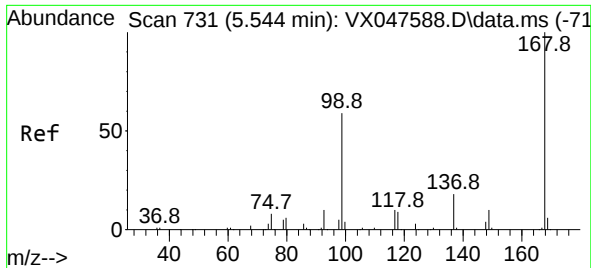
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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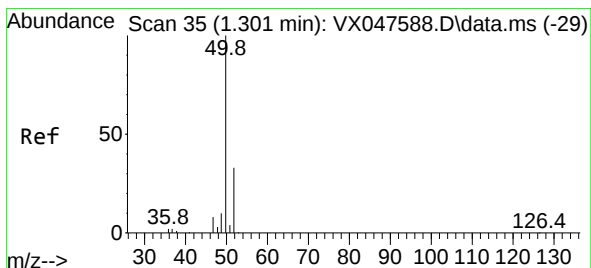
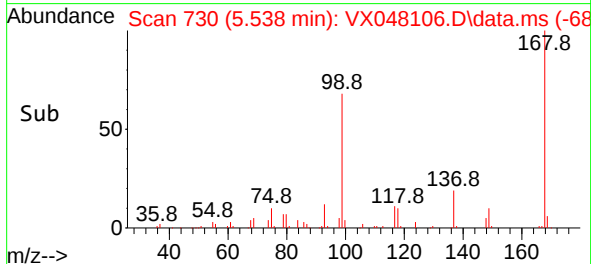
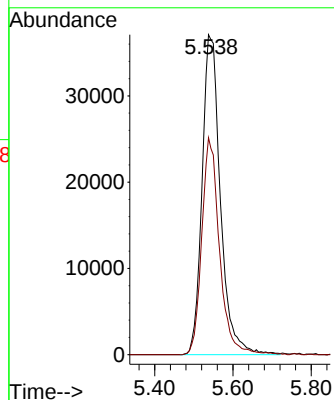
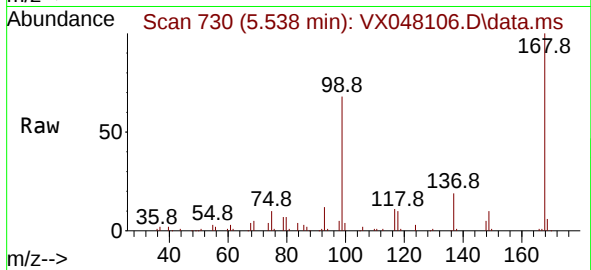




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

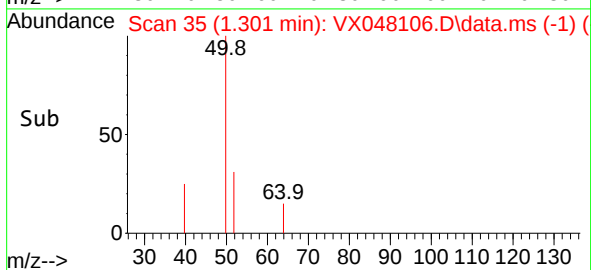
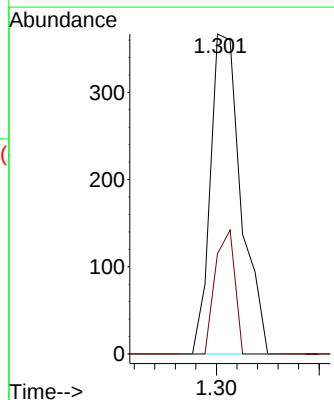
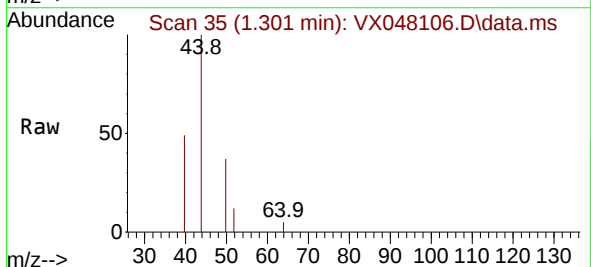
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251009

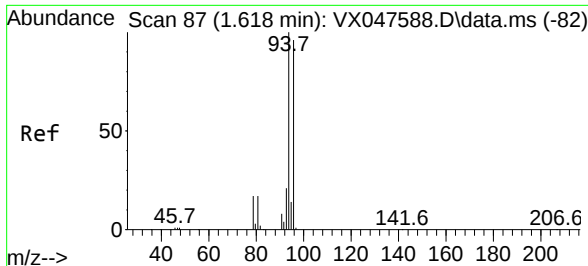
Tgt Ion:168 Resp: 120424
Ion Ratio Lower Upper
168 100
99 67.8 48.8 73.2



#3
Chloromethane
Concen: 0.232 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

Tgt Ion: 50 Resp: 380
Ion Ratio Lower Upper
50 100
52 31.3 26.1 39.1

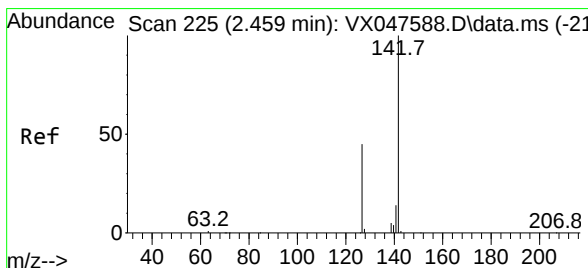
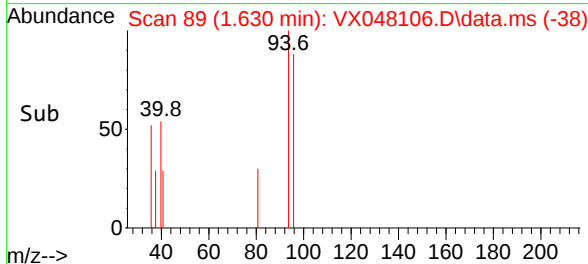
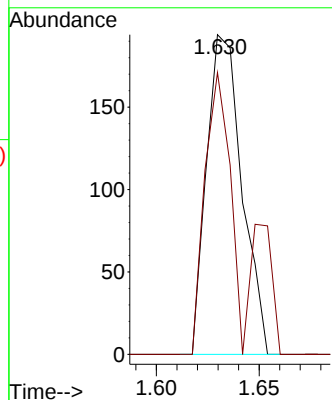
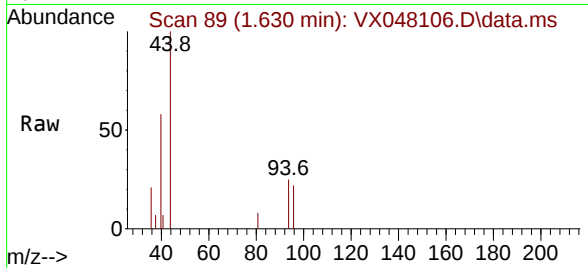




#5
Bromomethane
Concen: 0.227 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

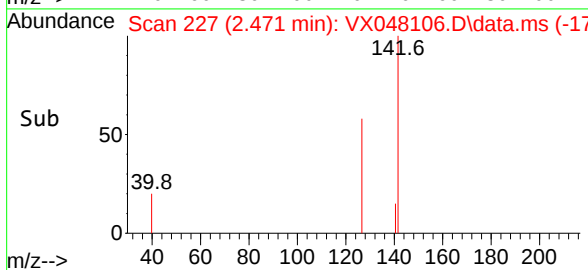
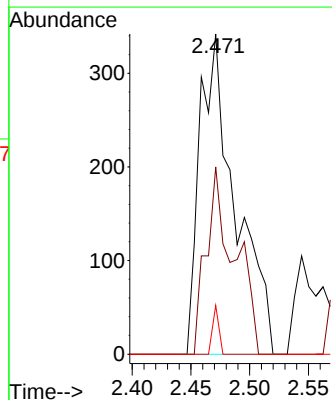
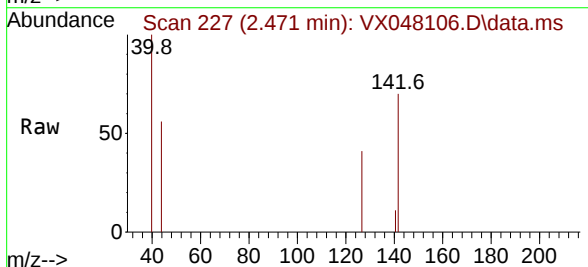
Instrument :
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ClientSampleId :
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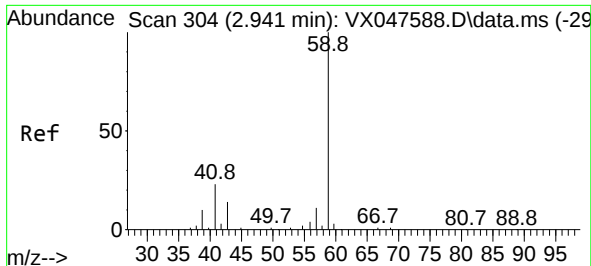
Tgt Ion: 94 Resp: 231
Ion Ratio Lower Upper
94 100
96 88.1 76.6 115.0



#10
Methyl Iodide
Concen: 0.333 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.012 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

Tgt Ion:142 Resp: 723
Ion Ratio Lower Upper
142 100
127 46.1 37.2 55.8
141 2.6 11.4 17.0#

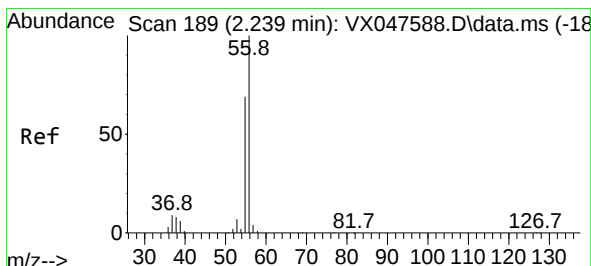
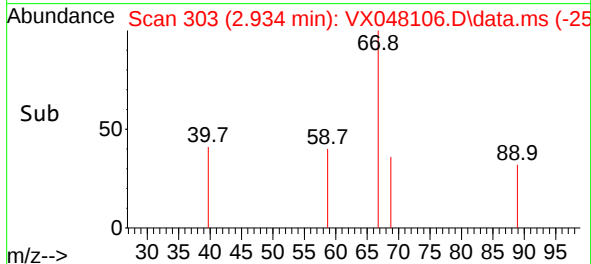
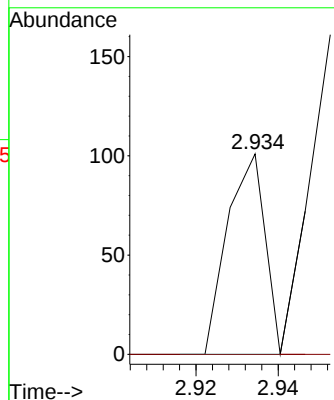
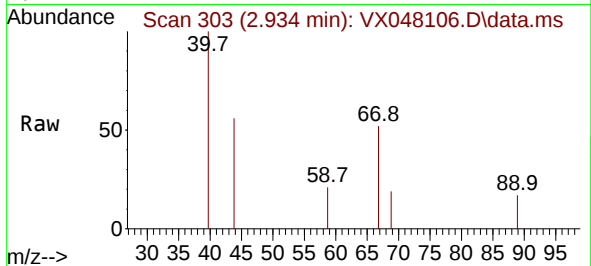




#11
Tert butyl alcohol
Concen: 0.300 ug/l
RT: 2.934 min Scan# 30
Delta R.T. -0.006 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

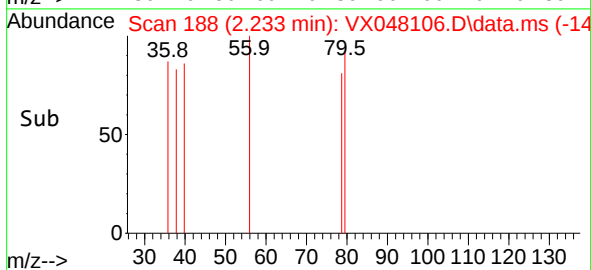
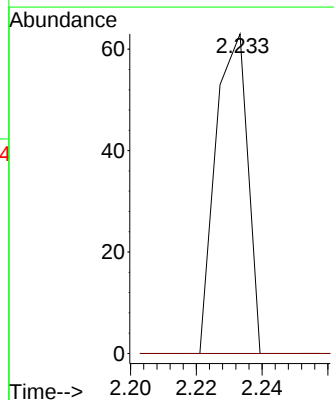
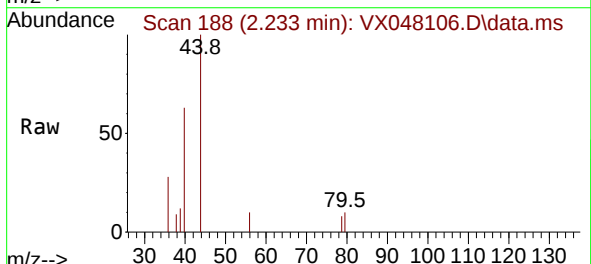
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251009

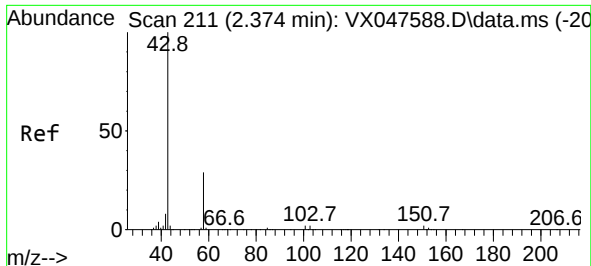
Tgt Ion: 59 Resp: 64
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 0.213 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

Tgt Ion: 56 Resp: 42
Ion Ratio Lower Upper
56 100
55 0.0 57.2 85.8#

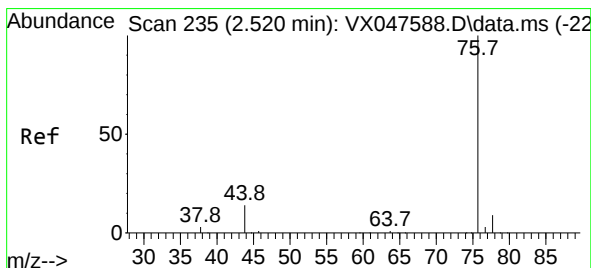
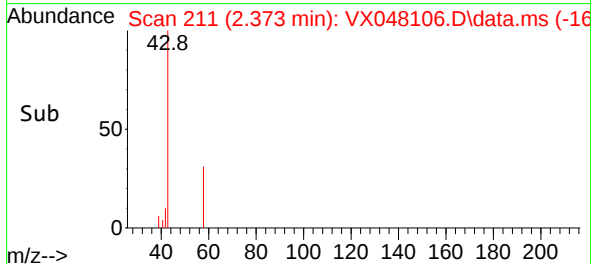
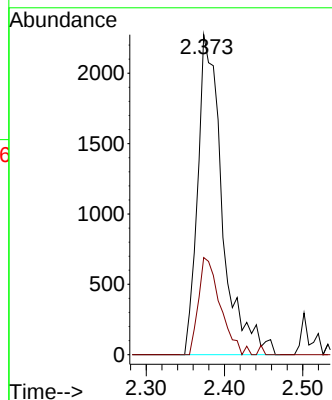
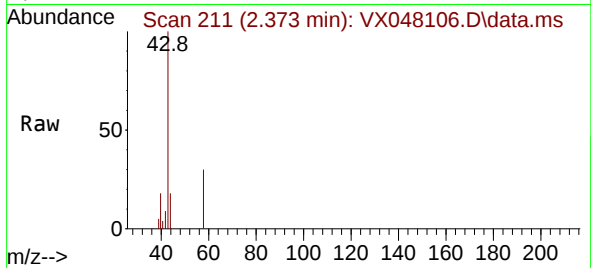




#16
Acetone
Concen: 5.962 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

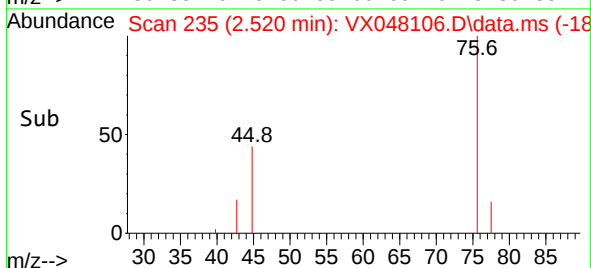
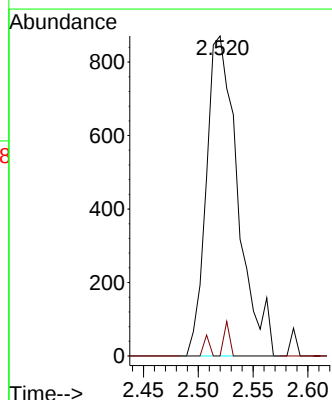
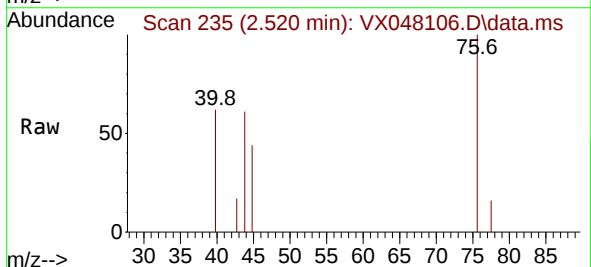
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251009

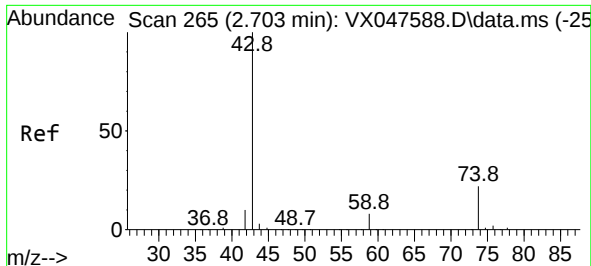
Tgt Ion: 43 Resp: 4969
Ion Ratio Lower Upper
43 100
58 30.3 23.4 35.0



#17
Carbon Disulfide
Concen: 0.444 ug/l
RT: 2.520 min Scan# 235
Delta R.T. -0.000 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

Tgt Ion: 76 Resp: 1740
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#

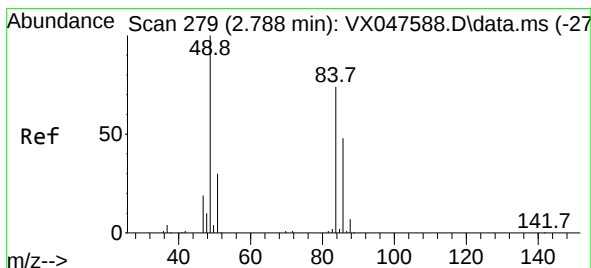
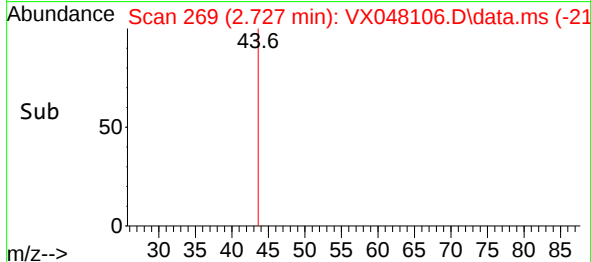
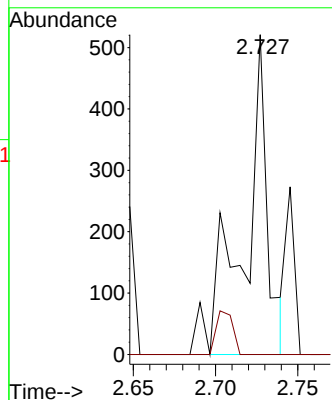
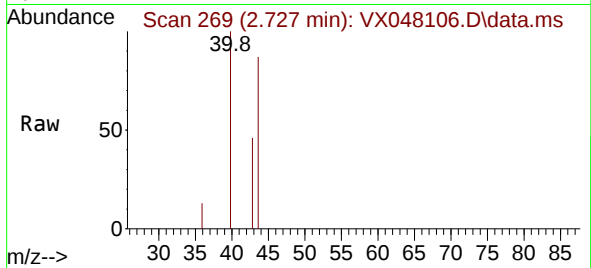




#18
Methyl Acetate
Concen: 0.281 ug/l
RT: 2.727 min Scan# 269
Delta R.T. 0.024 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

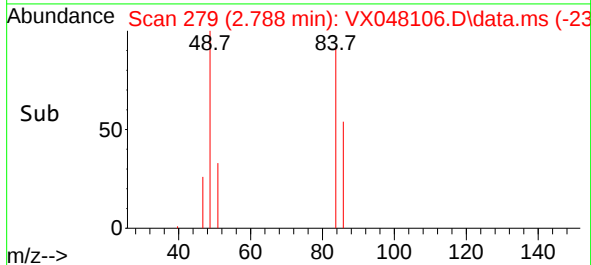
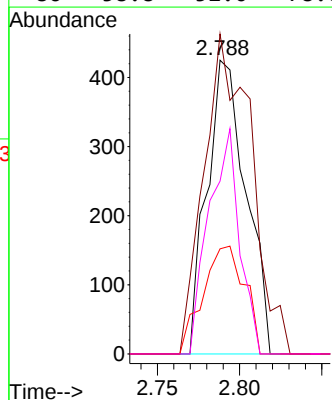
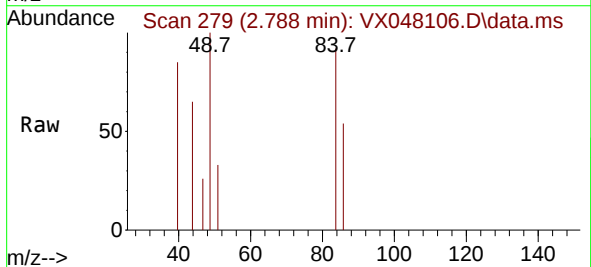
Instrument :
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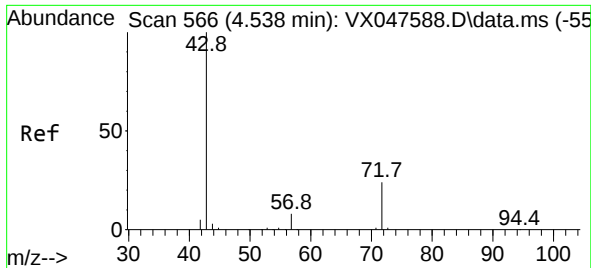
Tgt Ion: 43 Resp: 521
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#



#20
Methylene Chloride
Concen: 0.397 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

Tgt Ion: 84 Resp: 701
Ion Ratio Lower Upper
84 100
49 108.9 108.6 162.8
51 35.8 32.6 48.8
86 58.8 52.0 78.0





#25

2-Butanone

Concen: 0.257 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.030 min

Lab File: VX048106.D

Acq: 10 Oct 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

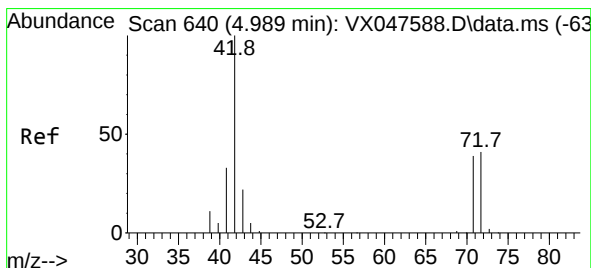
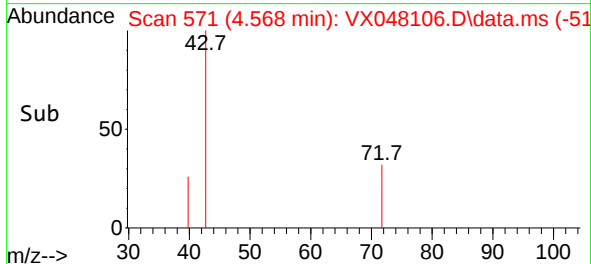
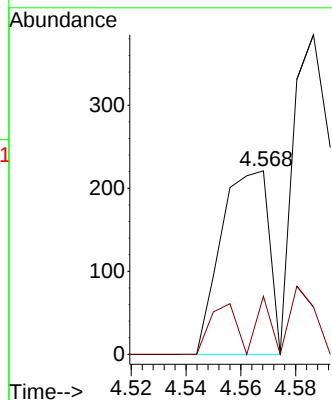
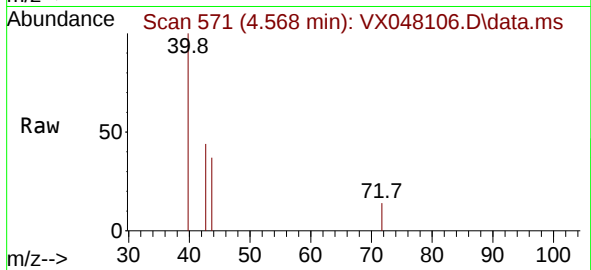
BP-VPB-184-EB-20251009

Tgt Ion: 43 Resp: 267

Ion Ratio Lower Upper

43 100

72 17.0 20.1 30.1#



#29

Tetrahydrofuran

Concen: 0.248 ug/l

RT: 5.007 min Scan# 643

Delta R.T. 0.018 min

Lab File: VX048106.D

Acq: 10 Oct 2025 13:11

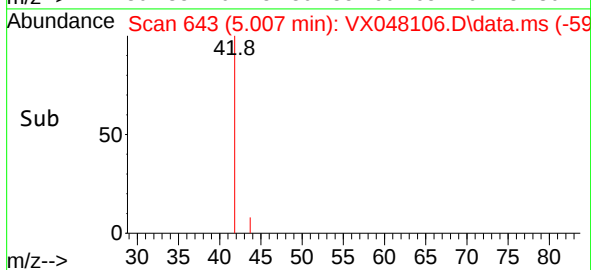
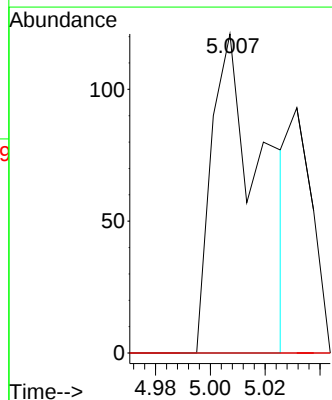
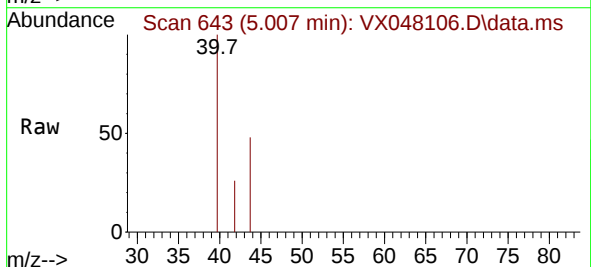
Tgt Ion: 42 Resp: 155

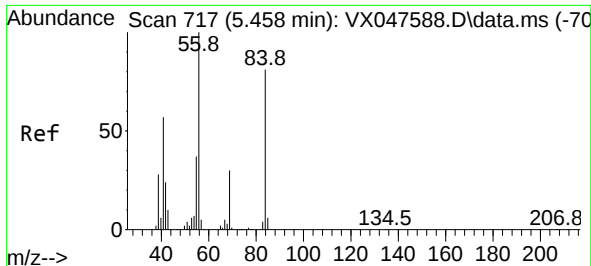
Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

71 0.0 31.9 47.9#

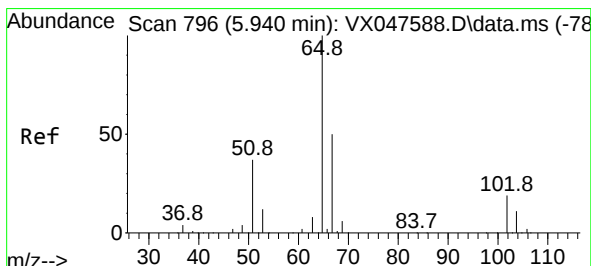
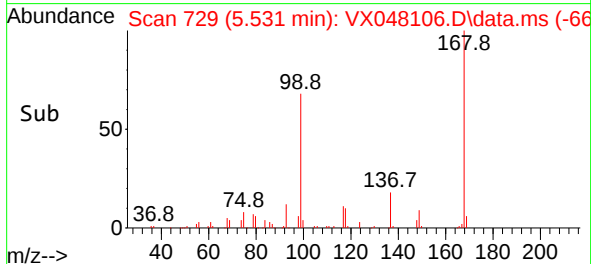
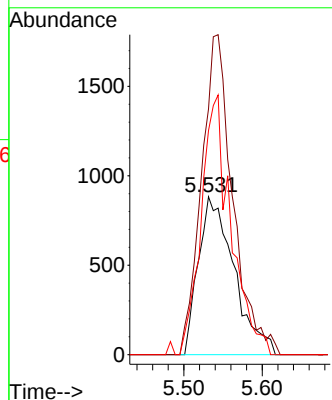
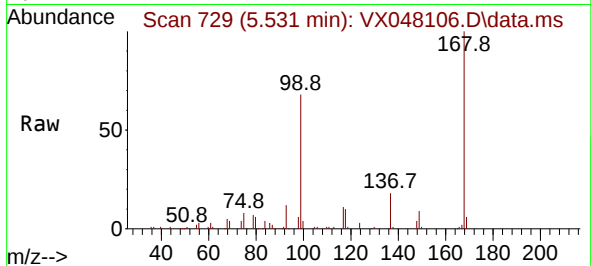




#31
Cyclohexane
Concen: 1.103 ug/l
RT: 5.531 min Scan# 717
Delta R.T. 0.073 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

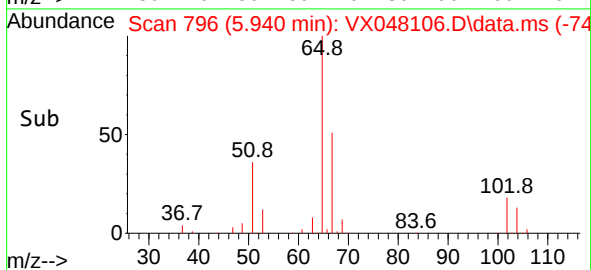
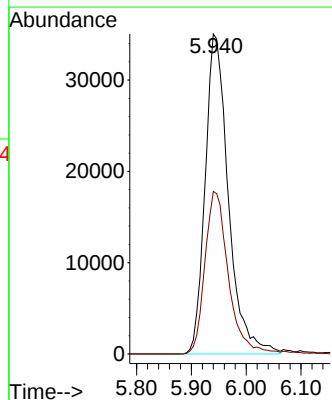
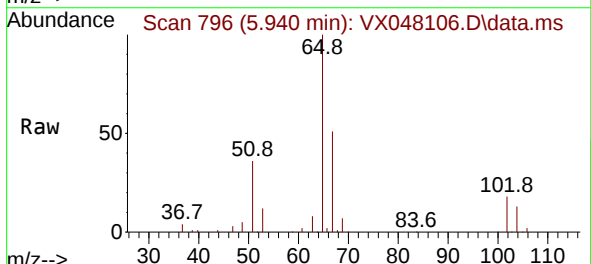
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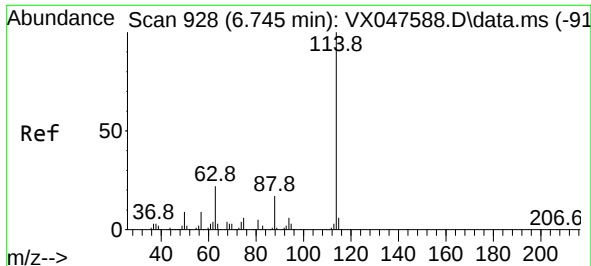
Tgt Ion: 56 Resp: 2793
Ion Ratio Lower Upper
56 100
69 155.6 23.8 35.8#
84 141.9 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 53.740 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

Tgt Ion: 65 Resp: 103011
Ion Ratio Lower Upper
65 100
67 51.2 0.0 103.0

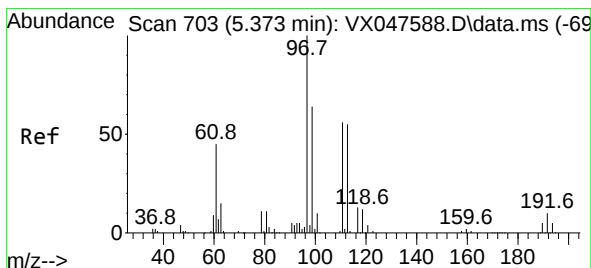
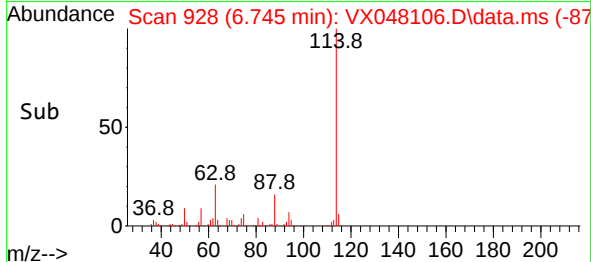
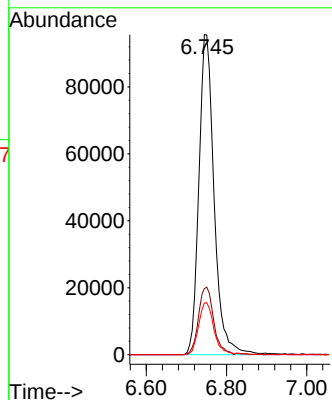
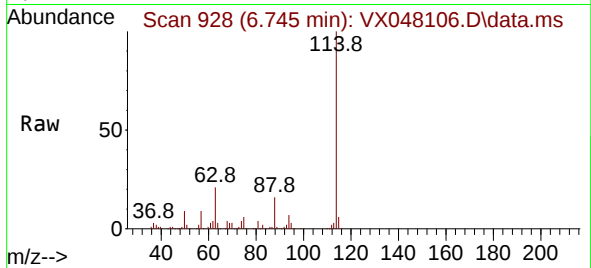




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

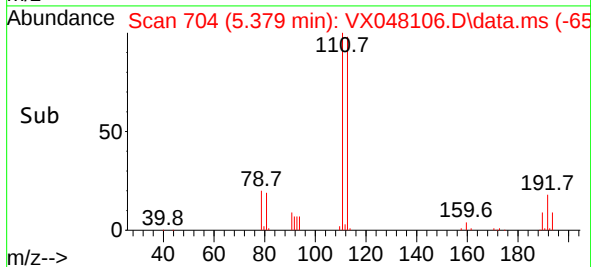
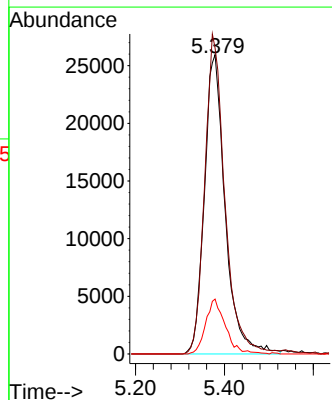
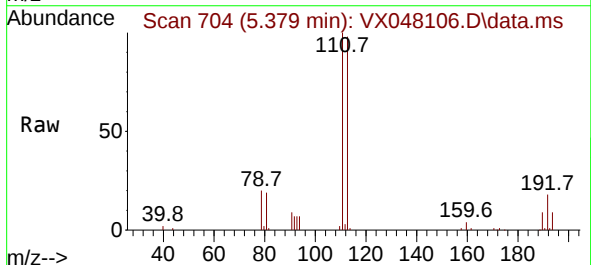
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251009

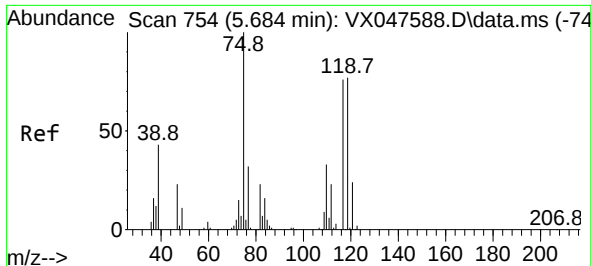
Tgt Ion:114 Resp: 251895
Ion Ratio Lower Upper
114 100
63 20.6 0.0 44.0
88 16.1 0.0 34.2



#35
Dibromofluoromethane
Concen: 49.965 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

Tgt Ion:113 Resp: 84409
Ion Ratio Lower Upper
113 100
111 103.5 80.9 121.3
192 17.4 14.2 21.4

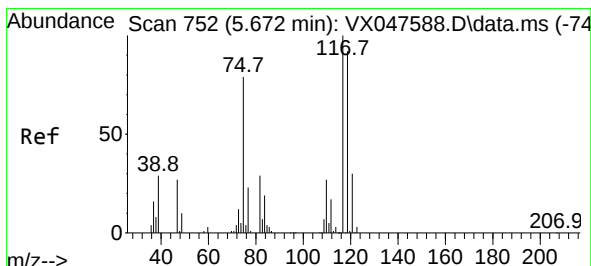
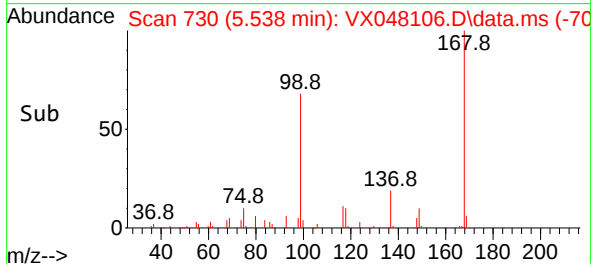
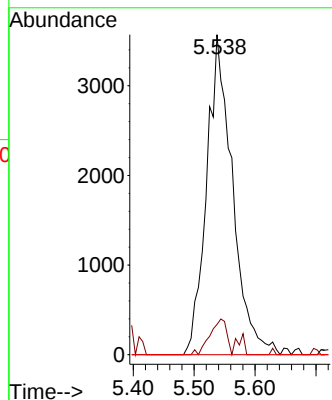
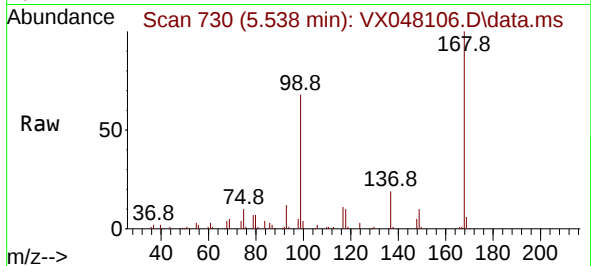




#36
1,1-Dichloropropene
Concen: 4.276 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

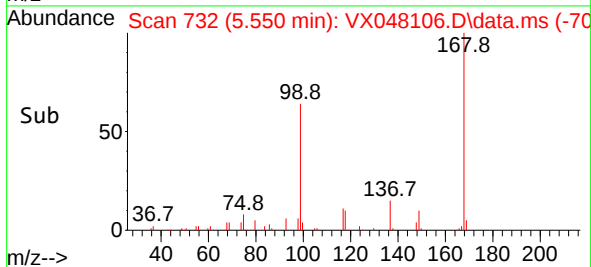
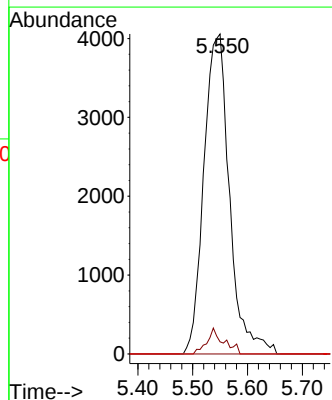
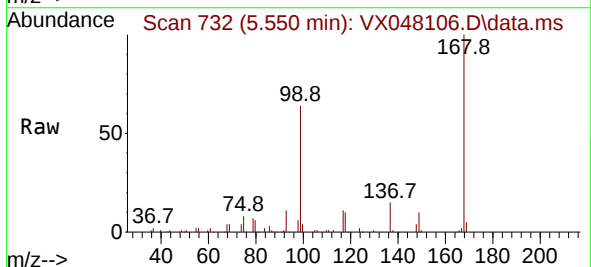
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251009

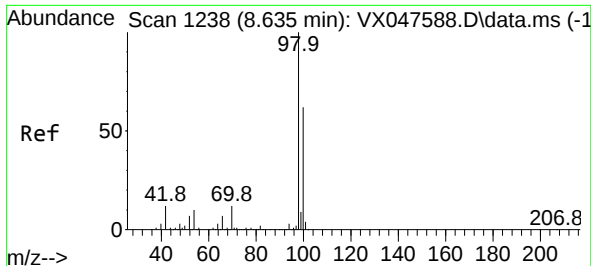
Tgt Ion: 75 Resp: 10556
Ion Ratio Lower Upper
75 100
110 7.2 16.7 50.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 4.907 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.122 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

Tgt Ion: 117 Resp: 13161
Ion Ratio Lower Upper
117 100
119 3.8 73.4 110.2#
121 0.0 23.8 35.6#

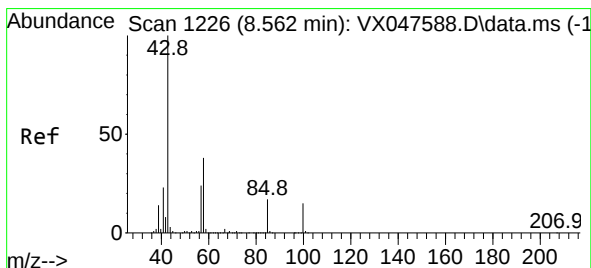
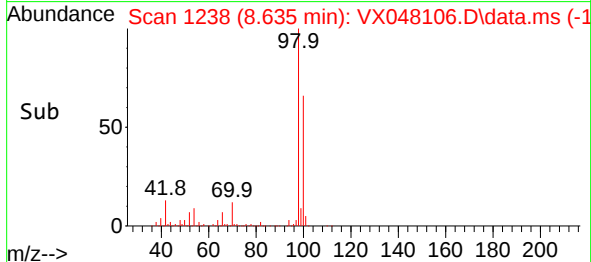
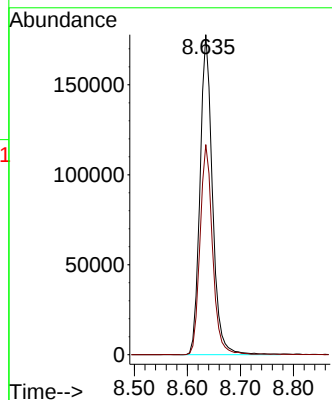
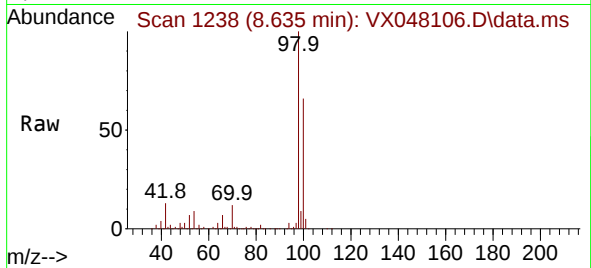




#50
Toluene-d8
Concen: 49.568 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

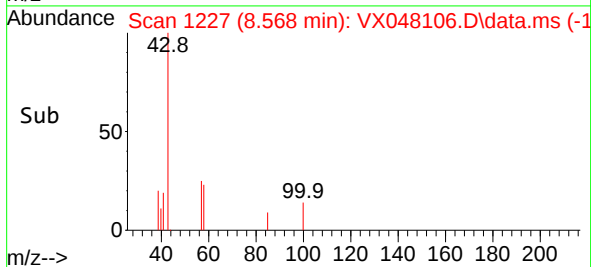
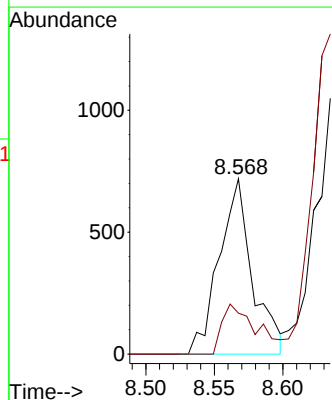
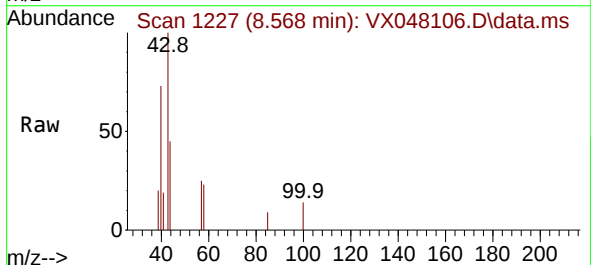
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251009

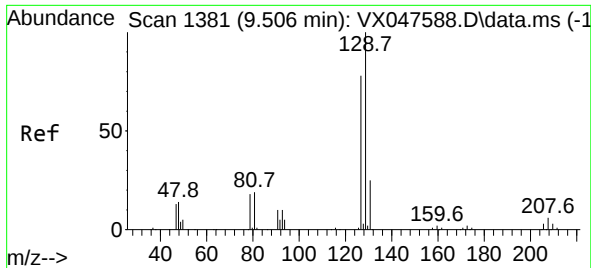
Tgt Ion: 98 Resp: 289751
Ion Ratio Lower Upper
98 100
100 66.2 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.504 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. 0.006 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

Tgt Ion: 43 Resp: 1211
Ion Ratio Lower Upper
43 100
58 29.7 30.3 45.5#

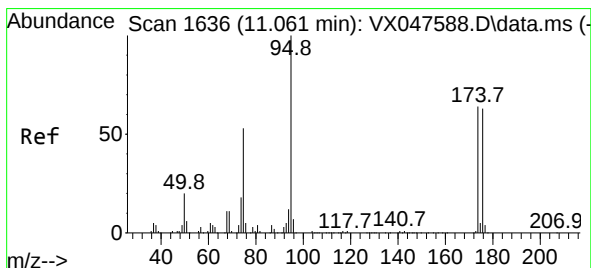
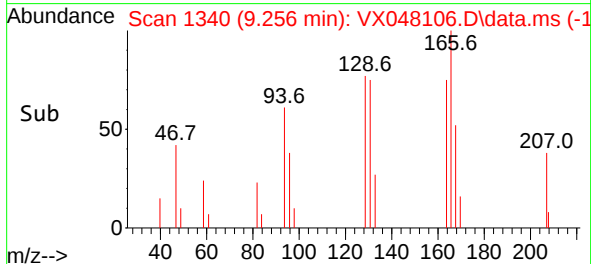
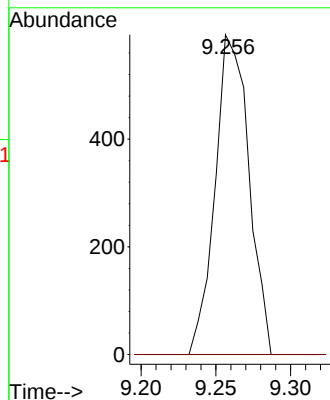
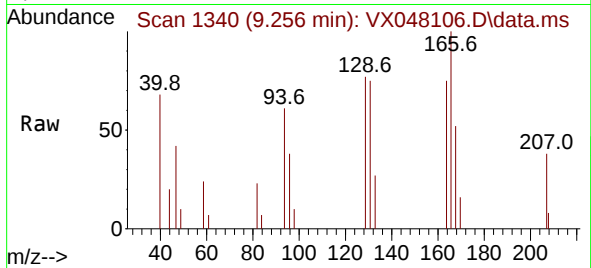




#60
Dibromochloromethane
Concen: 0.455 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

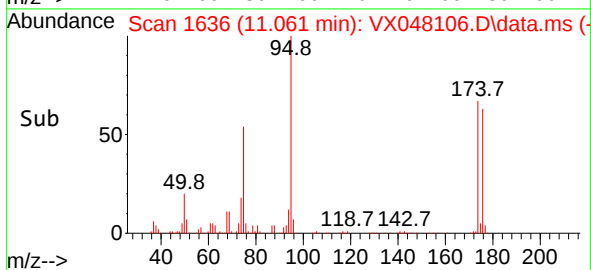
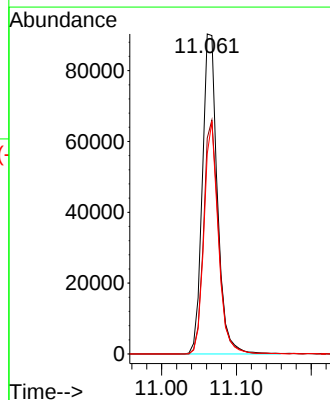
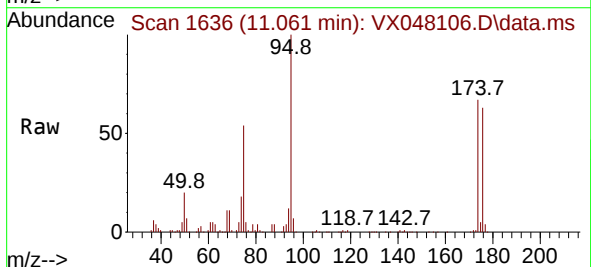
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251009

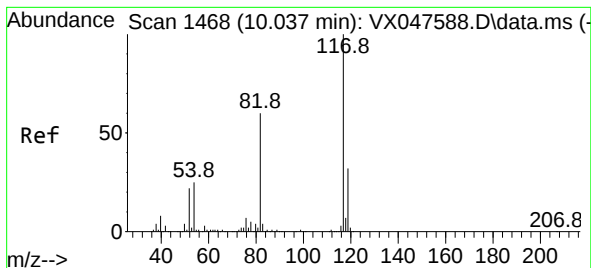
Tgt Ion:129 Resp: 933
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 56.893 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

Tgt Ion: 95 Resp: 126215
Ion Ratio Lower Upper
95 100
174 72.6 0.0 141.6
176 69.2 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: VX048106.D

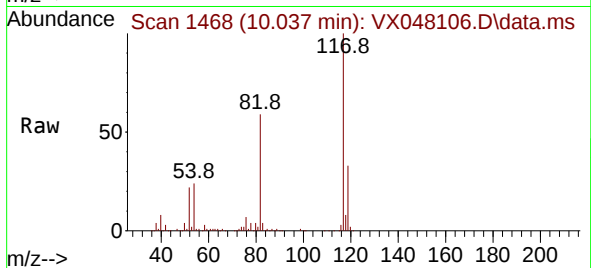
Acq: 10 Oct 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-184-EB-20251009



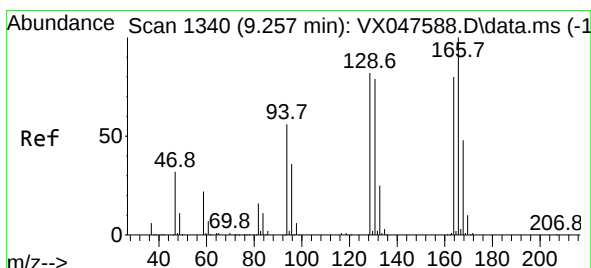
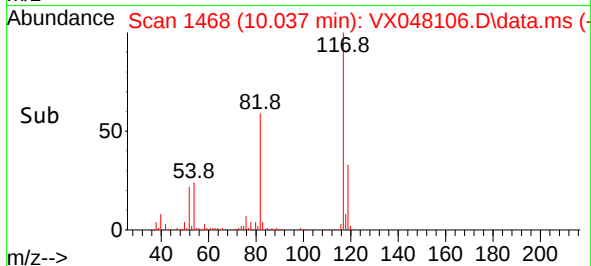
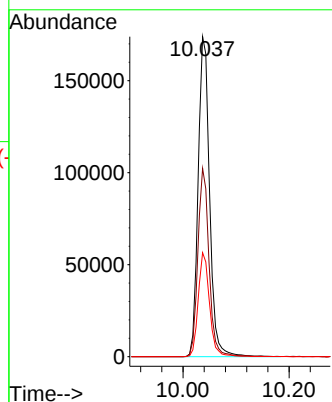
Tgt Ion:117 Resp: 260599

Ion Ratio Lower Upper

117 100

82 58.8 47.8 71.6

119 32.5 25.2 37.8



#64

Tetrachloroethene

Concen: 0.680 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. 0.012 min

Lab File: VX048106.D

Acq: 10 Oct 2025 13:11

Tgt Ion:164 Resp: 1155

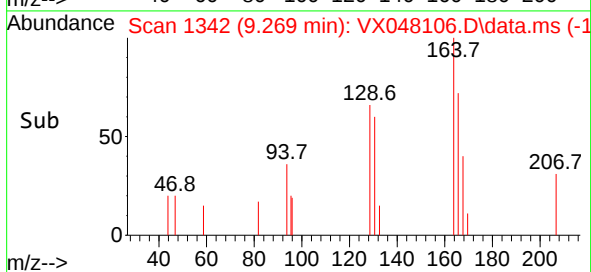
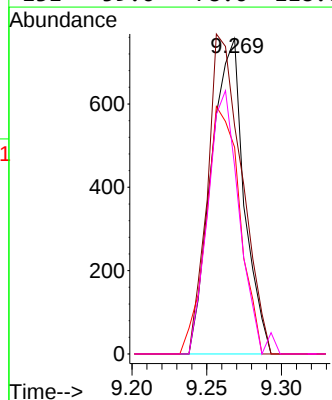
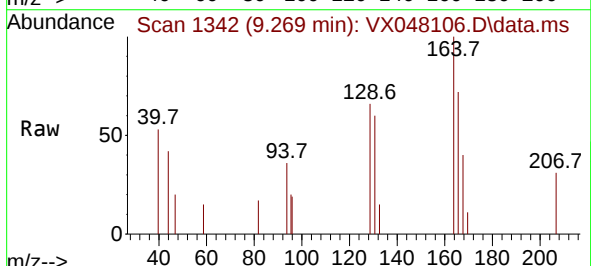
Ion Ratio Lower Upper

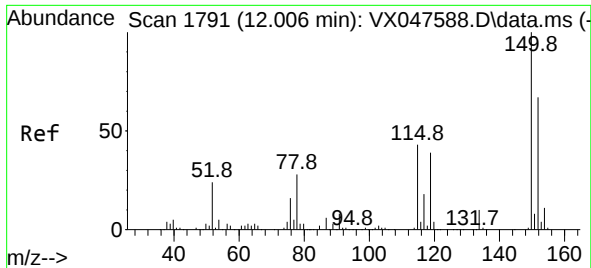
164 100

166 72.4 100.2 150.2#

129 65.5 81.8 122.6#

131 59.6 78.6 118.0#

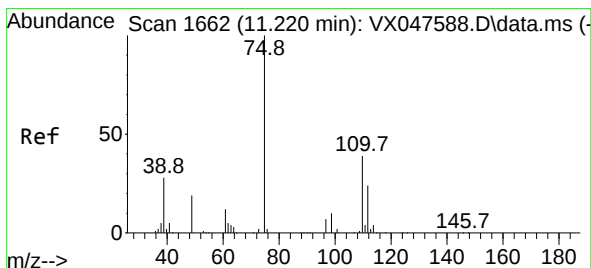
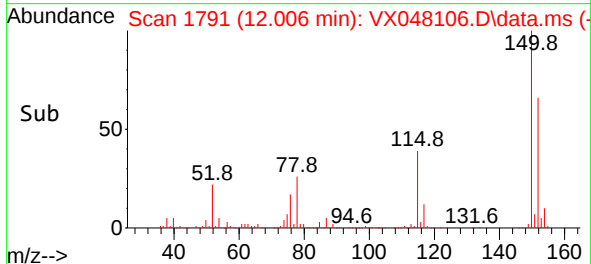
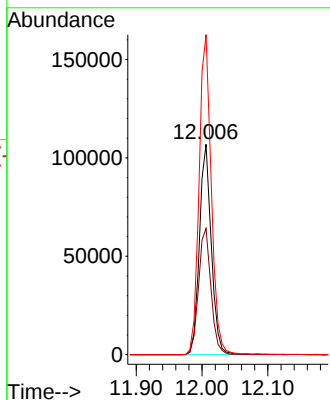
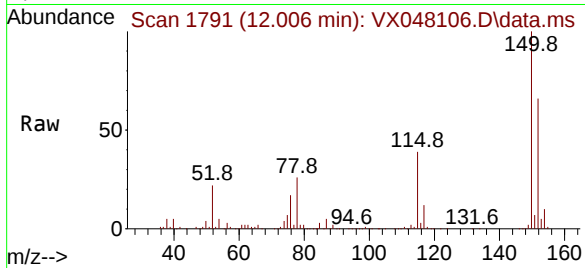




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

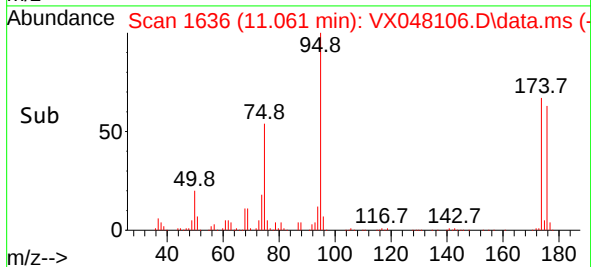
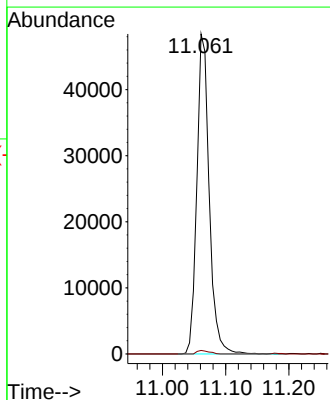
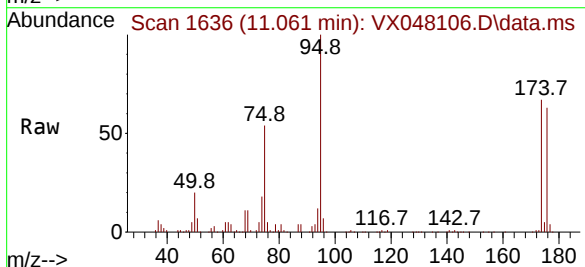
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251009

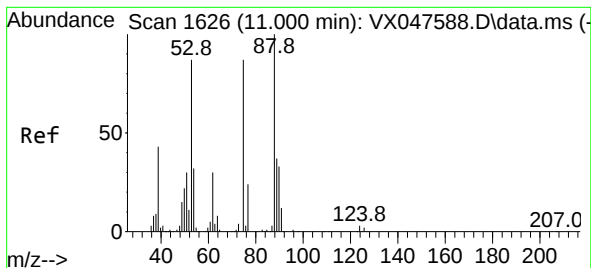
Tgt Ion:152 Resp: 134745
Ion Ratio Lower Upper
152 100
115 62.6 44.9 134.5
150 155.6 0.0 352.0



#76
1,2,3-Trichloropropane
Concen: 24.181 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

Tgt Ion: 75 Resp: 65970
Ion Ratio Lower Upper
75 100
77 1.1 18.8 56.4#

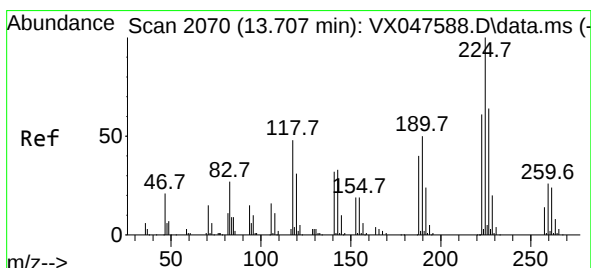
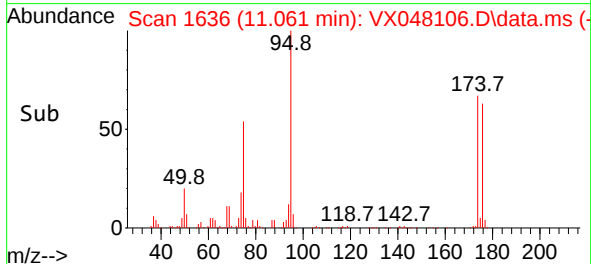
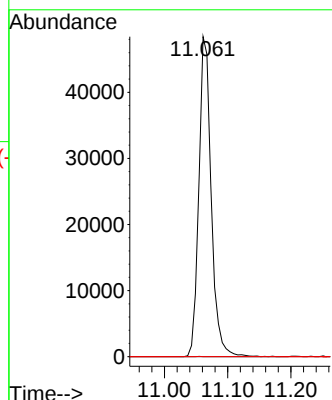
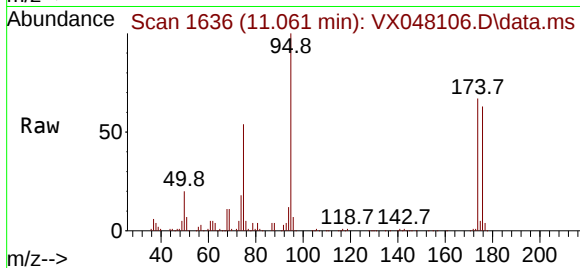




#81
trans-1,4-Dichloro-2-butene
Concen: 61.665 ug/l
RT: 11.061 min Scan# 11
Delta R.T. 0.061 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251009

Tgt Ion: 75 Resp: 65970
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#94
Hexachlorobutadiene
Concen: 0.471 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX048106.D
Acq: 10 Oct 2025 13:11

Tgt Ion: 225 Resp: 464
Ion Ratio Lower Upper
225 100
223 68.3 31.7 95.1
227 67.2 32.0 96.0

