

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100625\
 Data File : VX048013.D
 Acq On : 06 Oct 2025 11:13
 Operator : JC/MD
 Sample : Q3202-19
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB

Quant Time: Oct 07 02:08:23 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)

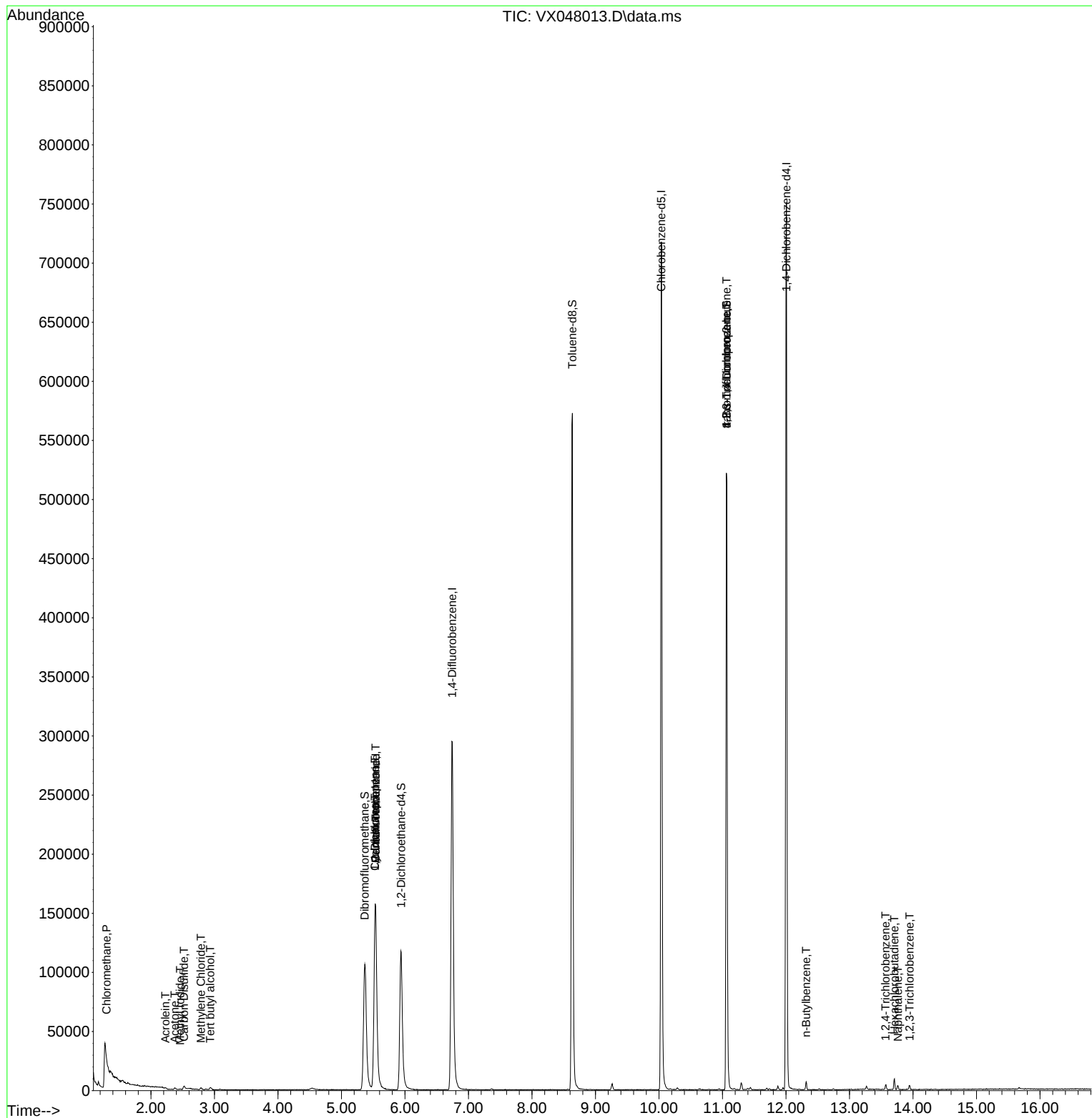
Internal Standards						
1) Pentafluorobenzene	5.538	168	157457	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	323356	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	327577	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	161049	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	127320	50.800	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	101.600%
35) Dibromofluoromethane	5.367	113	105568	48.680	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.360%
50) Toluene-d8	8.635	98	354939	47.301	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	94.600%
62) 4-Bromofluorobenzene	11.061	95	152712	53.624	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	107.240%
Target Compounds						
						Qvalue
3) Chloromethane	1.301	50	842	0.393	ug/l #	42
10) Methyl Iodide	2.459	142	743	0.262	ug/l #	79
11) Tert butyl alcohol	2.934	59	1023	3.665	ug/l #	72
13) Acrolein	2.227	56	125	0.486	ug/l #	14
16) Acetone	2.374	43	1865	1.711	ug/l #	80
17) Carbon Disulfide	2.520	76	2877	0.562	ug/l #	91
20) Methylene Chloride	2.788	84	788	0.342	ug/l #	72
31) Cyclohexane	5.525	56	3706	1.119	ug/l #	13
36) 1,1-Dichloropropene	5.525	75	13397	4.228	ug/l #	52
38) Carbon Tetrachloride	5.538	117	17129	4.975	ug/l #	19
76) 1,2,3-Trichloropropane	11.061	75	79816	24.478	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.061	75	79816	62.422	ug/l #	8
89) n-Butylbenzene	12.317	91	2406	0.251	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	1019	0.294	ug/l	87
94) Hexachlorobutadiene	13.707	225	1275	1.082	ug/l	98
95) Naphthalene	13.762	128	2456	0.233	ug/l	98
96) 1,2,3-Trichlorobenzene	13.945	180	1023	0.317	ug/l	86

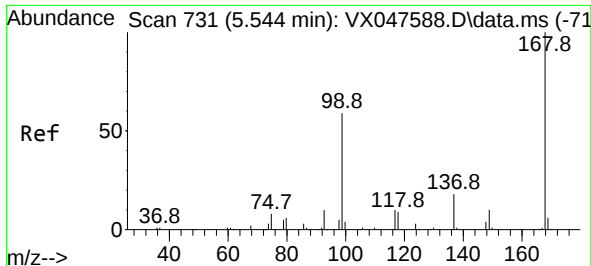
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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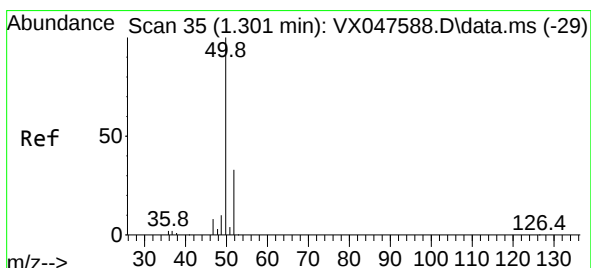
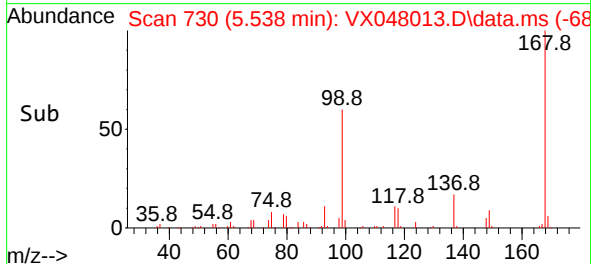
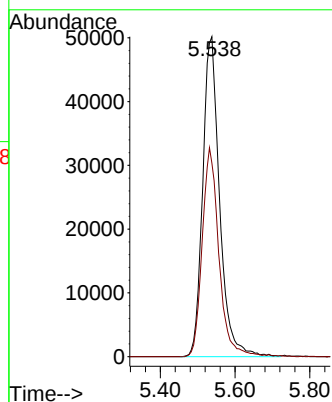
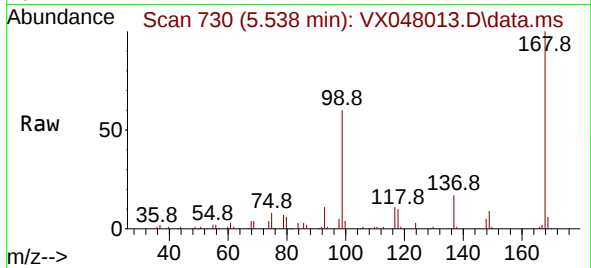




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

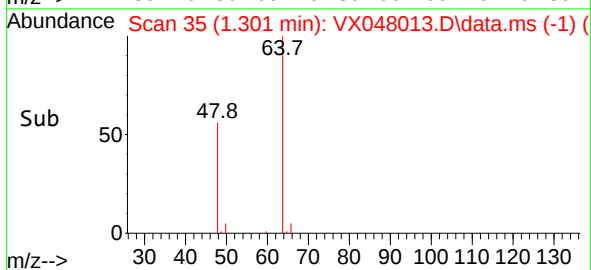
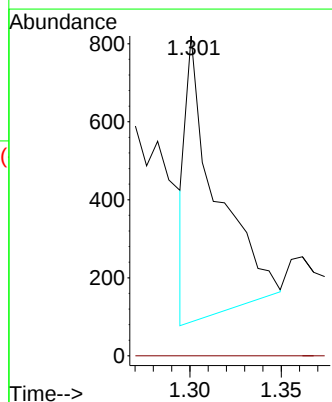
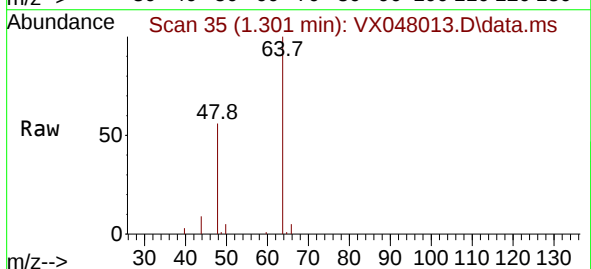
Instrument :
MSVOA_X
ClientSampleId :
TB

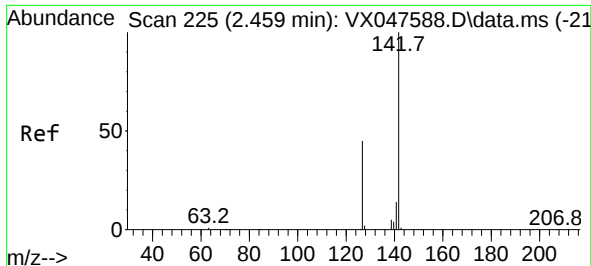
Tgt Ion:168 Resp: 157457
Ion Ratio Lower Upper
168 100
99 60.5 48.8 73.2



#3
Chloromethane
Concen: 0.393 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

Tgt Ion: 50 Resp: 842
Ion Ratio Lower Upper
50 100
52 0.0 26.1 39.1#

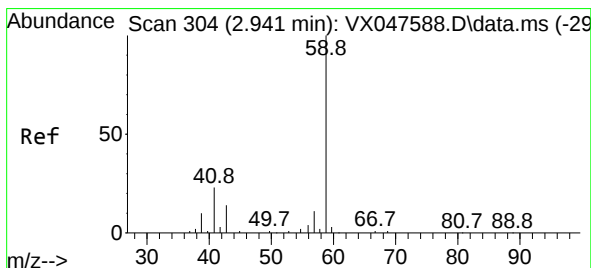
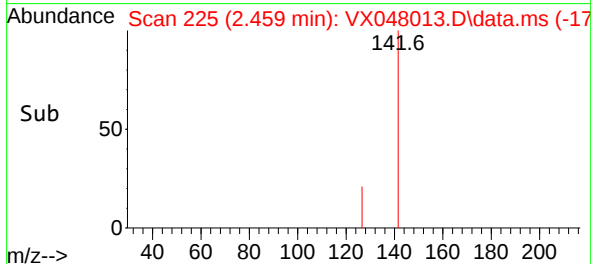
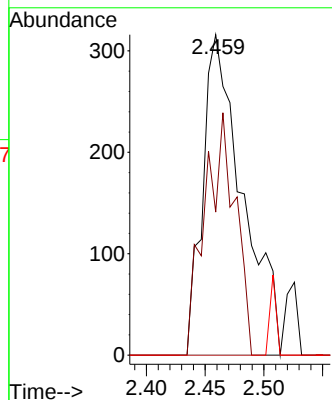
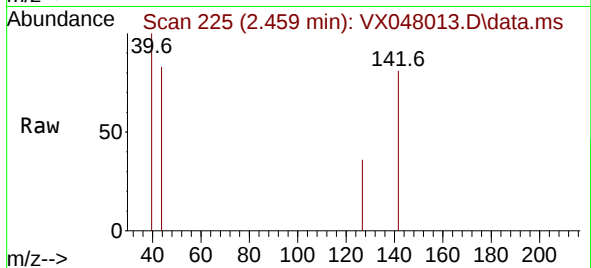




#10
Methyl Iodide
Concen: 0.262 ug/l
RT: 2.459 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

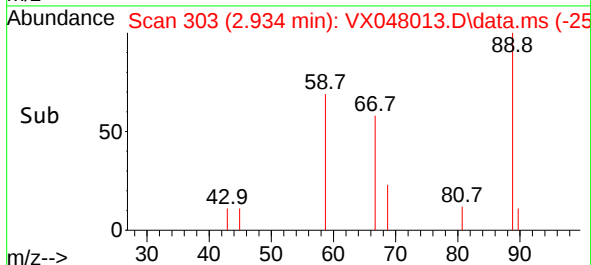
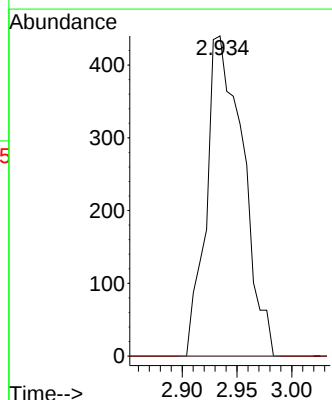
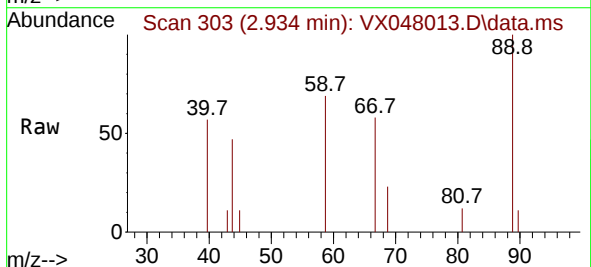
Instrument :
MSVOA_X
ClientSampleId :
TB

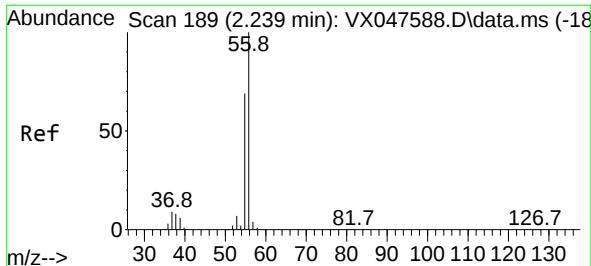
Tgt Ion:142 Resp: 743
Ion Ratio Lower Upper
142 100
127 57.9 37.2 55.8#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 3.665 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.006 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

Tgt Ion: 59 Resp: 1023
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

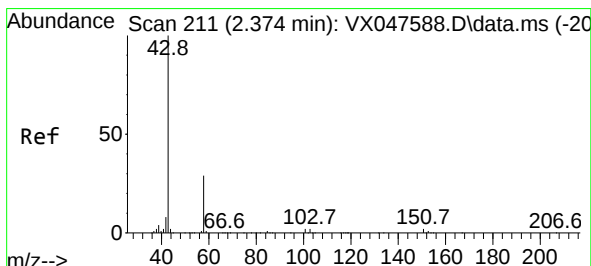
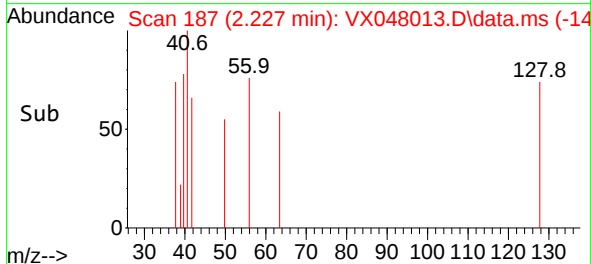
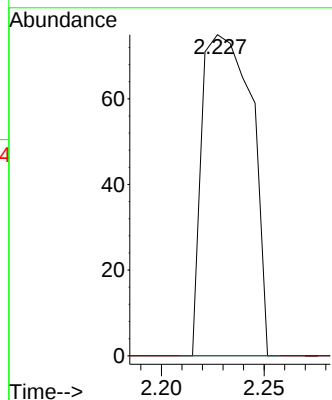
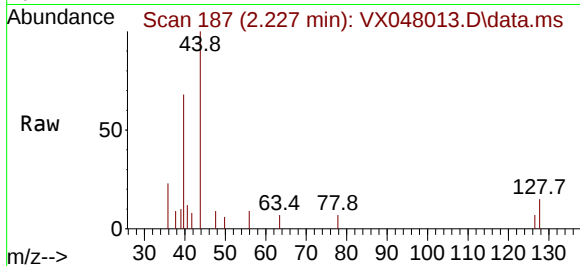




#13
Acrolein
Concen: 0.486 ug/l
RT: 2.227 min Scan# 11
Delta R.T. -0.012 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

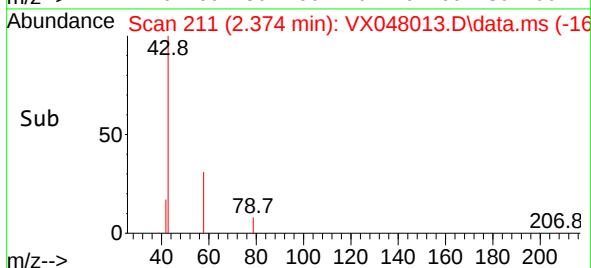
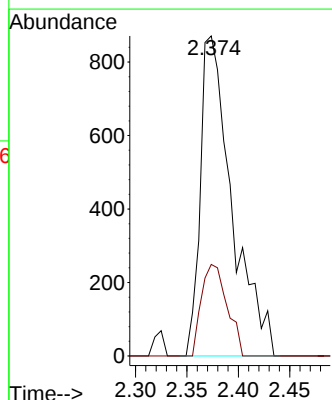
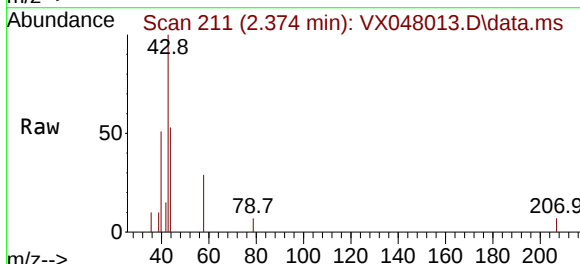
Instrument :
MSVOA_X
ClientSampleId :
TB

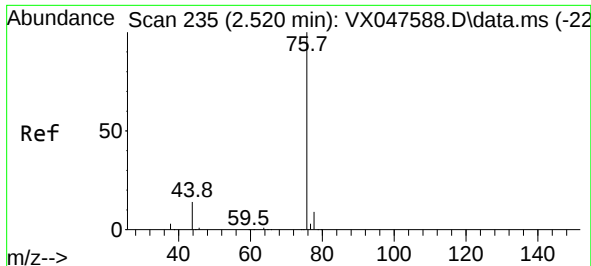
Tgt Ion: 56 Resp: 125
Ion Ratio Lower Upper
56 100
55 0.0 57.2 85.8#



#16
Acetone
Concen: 1.711 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

Tgt Ion: 43 Resp: 1865
Ion Ratio Lower Upper
43 100
58 18.7 23.4 35.0#

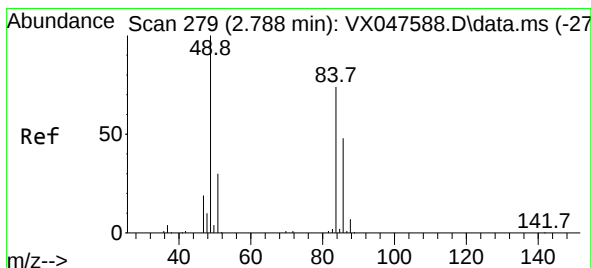
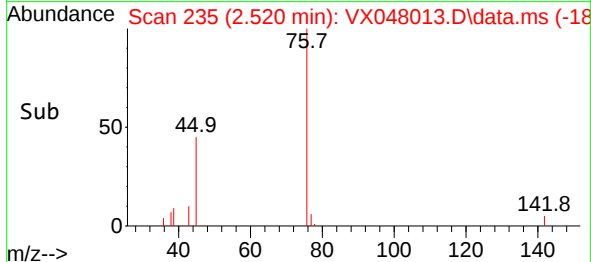
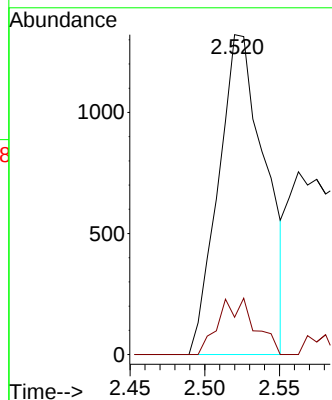
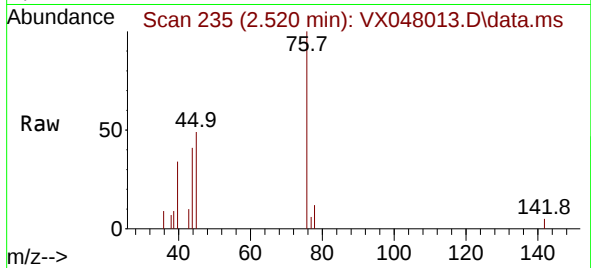




#17
Carbon Disulfide
Concen: 0.562 ug/l
RT: 2.520 min Scan# 217
Delta R.T. 0.000 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

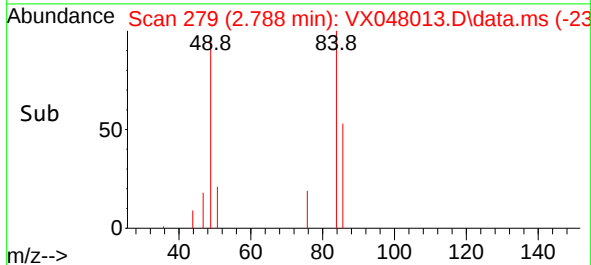
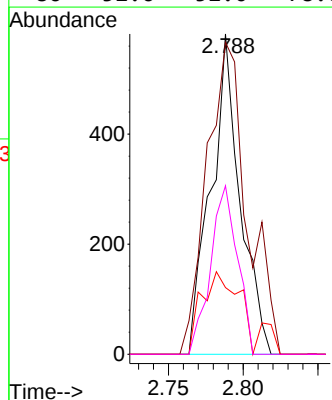
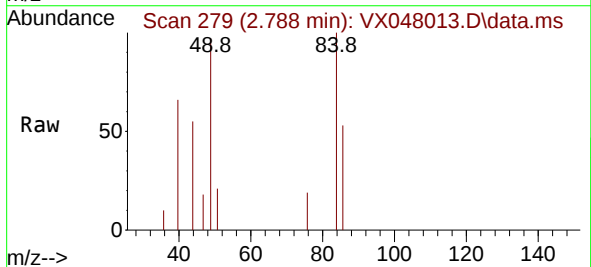
Instrument :
MSVOA_X
ClientSampleId :
TB

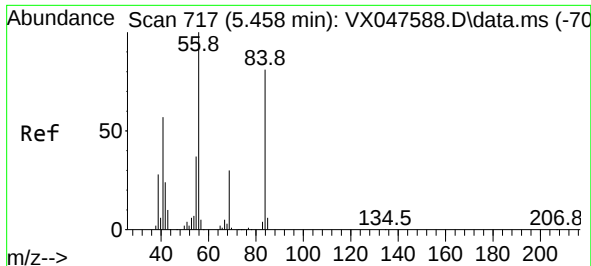
Tgt Ion: 76 Resp: 2877
Ion Ratio Lower Upper
76 100
78 11.7 6.8 10.2#



#20
Methylene Chloride
Concen: 0.342 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

Tgt Ion: 84 Resp: 788
Ion Ratio Lower Upper
84 100
49 97.4 108.6 162.8#
51 20.8 32.6 48.8#
86 52.6 52.0 78.0

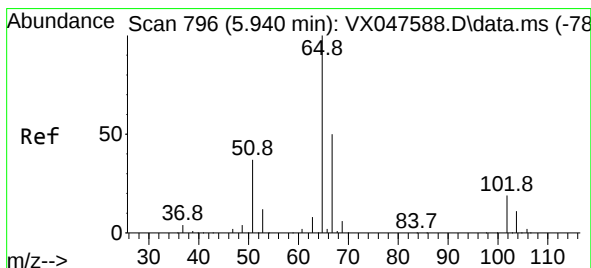
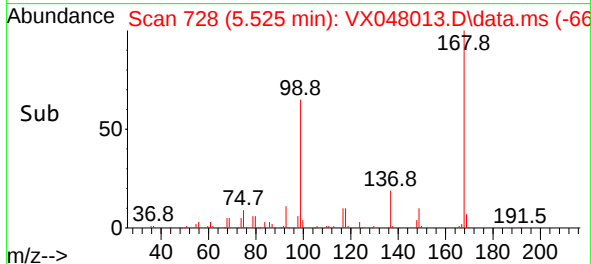
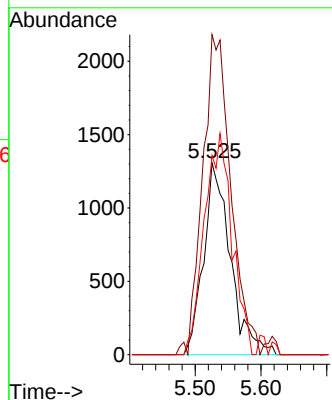
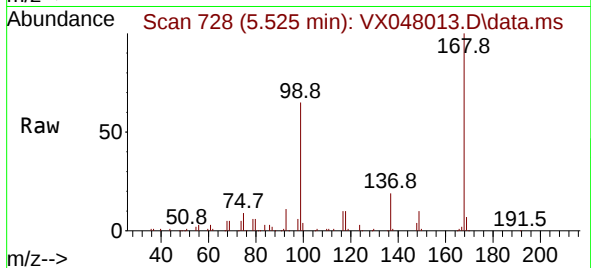




#31
Cyclohexane
Concen: 1.119 ug/l
RT: 5.525 min Scan# 717
Delta R.T. 0.067 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

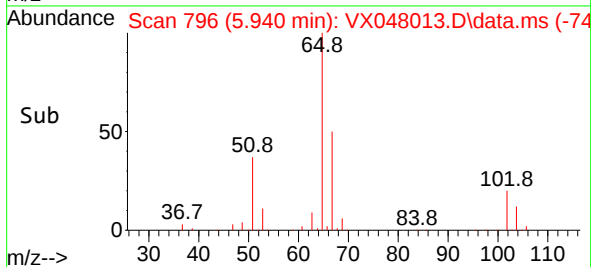
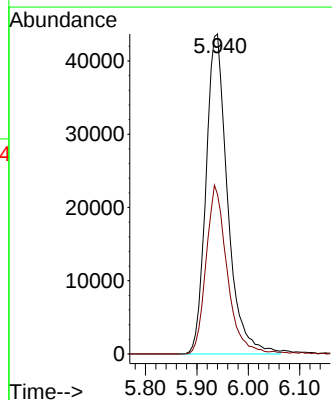
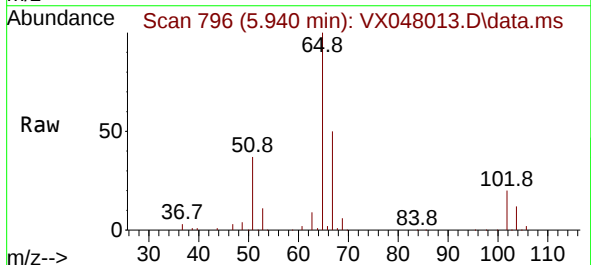
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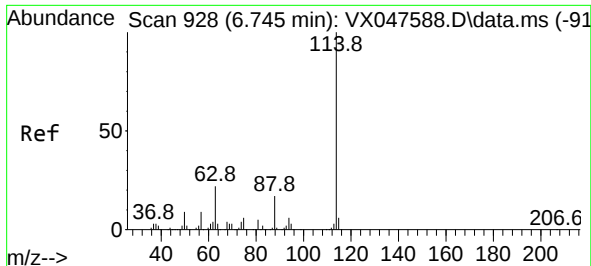
Tgt Ion: 56 Resp: 3706
Ion Ratio Lower Upper
56 100
69 166.7 23.8 35.8#
84 103.8 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 50.800 ug/l
RT: 5.940 min Scan# 796
Delta R.T. 0.000 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

Tgt Ion: 65 Resp: 127320
Ion Ratio Lower Upper
65 100
67 51.2 0.0 103.0

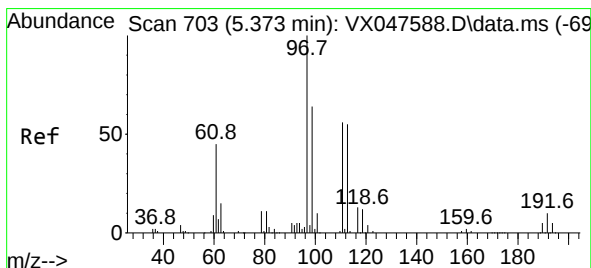
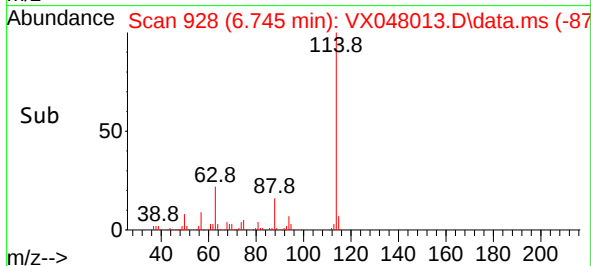
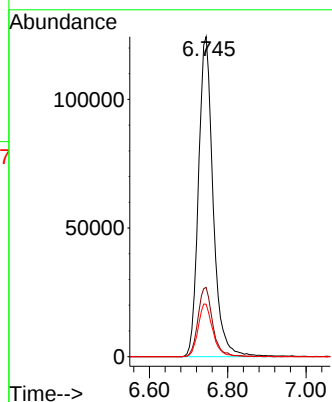
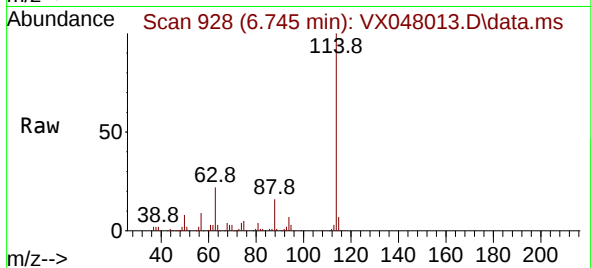




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

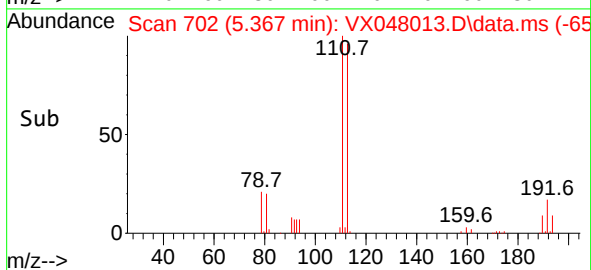
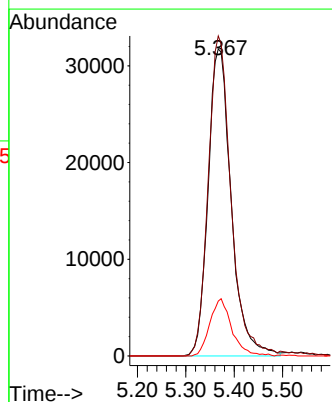
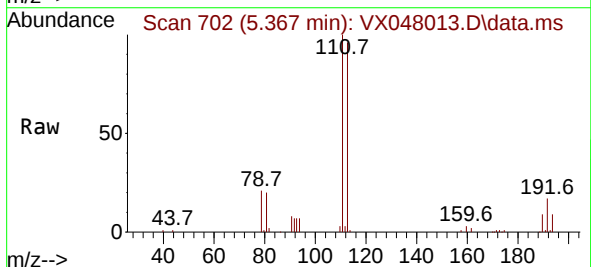
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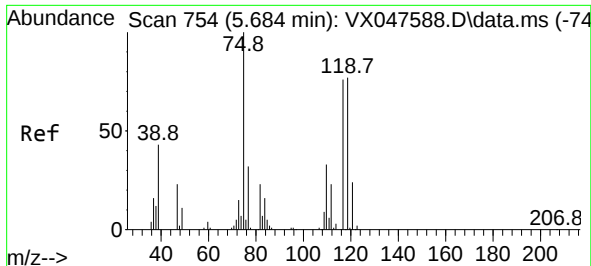
Tgt Ion:114 Resp: 323356
Ion Ratio Lower Upper
114 100
63 21.6 0.0 44.0
88 16.4 0.0 34.2



#35
Dibromofluoromethane
Concen: 48.680 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

Tgt Ion:113 Resp: 105568
Ion Ratio Lower Upper
113 100
111 102.2 80.9 121.3
192 17.7 14.2 21.4

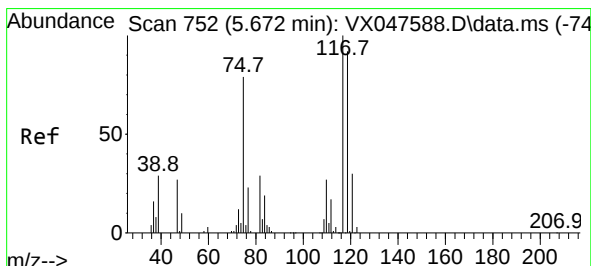
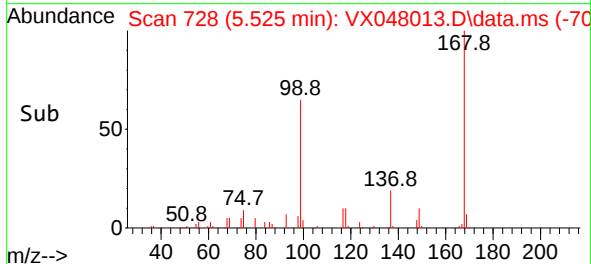
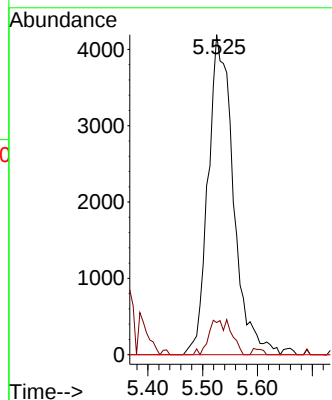
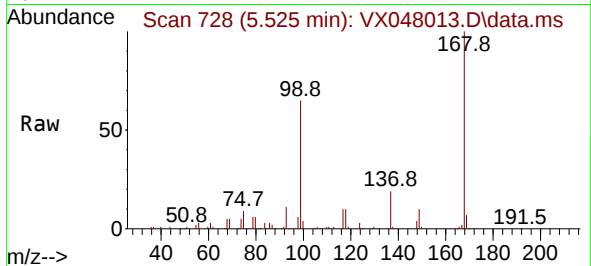




#36
1,1-Dichloropropene
Concen: 4.228 ug/l
RT: 5.525 min Scan# 71
Delta R.T. -0.159 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

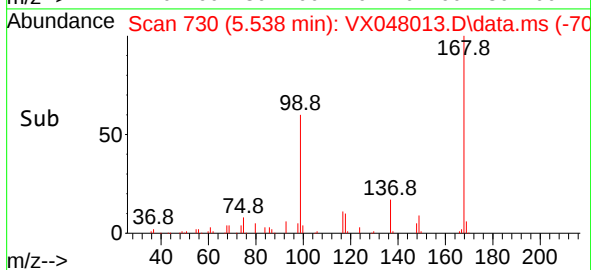
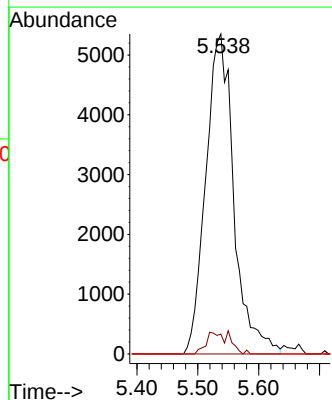
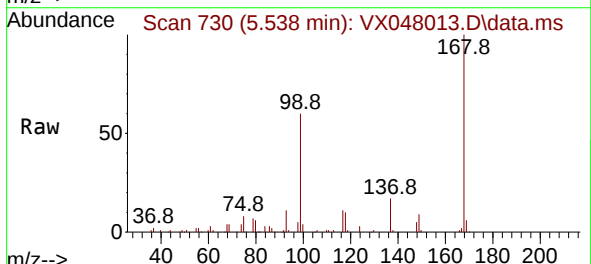
Instrument :
MSVOA_X
ClientSampleId :
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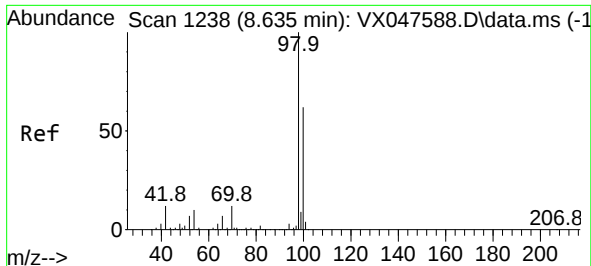
Tgt Ion: 75 Resp: 13397
Ion Ratio Lower Upper
75 100
110 9.6 16.7 50.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 4.975 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.134 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

Tgt Ion: 117 Resp: 17129
Ion Ratio Lower Upper
117 100
119 6.2 73.4 110.2#
121 0.0 23.8 35.6#

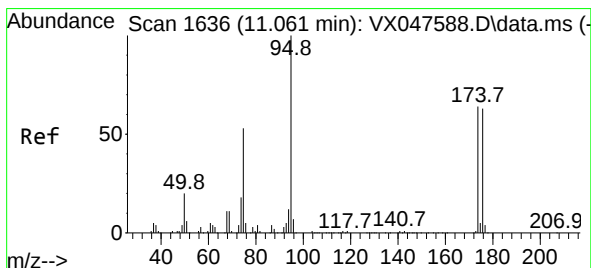
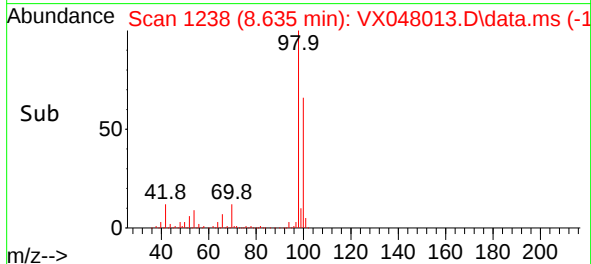
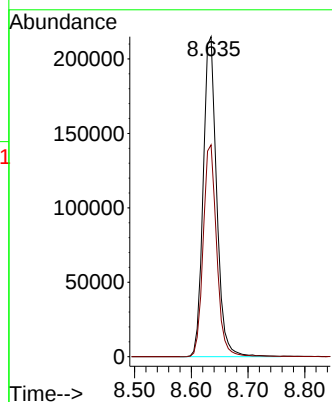
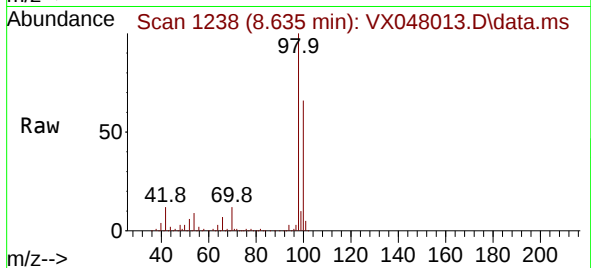




#50
Toluene-d8
Concen: 47.301 ug/l
RT: 8.635 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

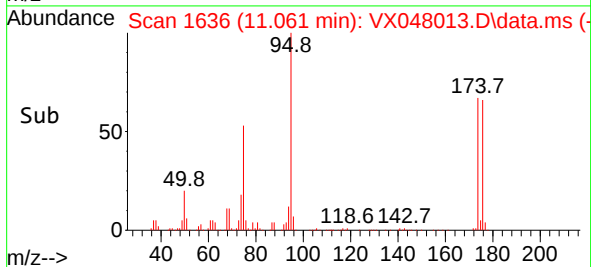
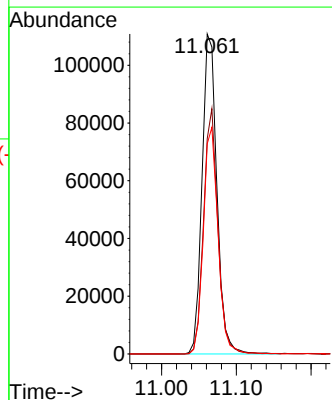
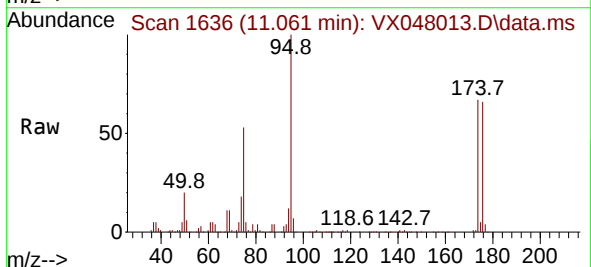
Instrument :
MSVOA_X
ClientSampleId :
TB

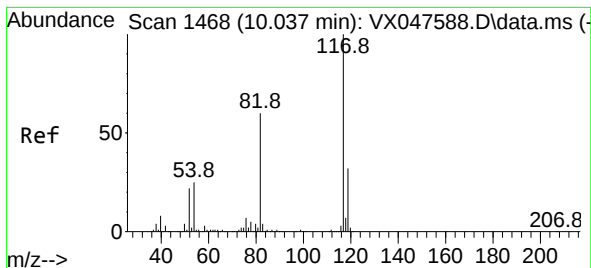
Tgt Ion: 98 Resp: 354939
Ion Ratio Lower Upper
98 100
100 66.3 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 53.624 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

Tgt Ion: 95 Resp: 152712
Ion Ratio Lower Upper
95 100
174 73.8 0.0 141.6
176 70.2 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: VX048013.D

Acq: 06 Oct 2025 11:13

Instrument :

MSVOA_X

ClientSampleId :

TB

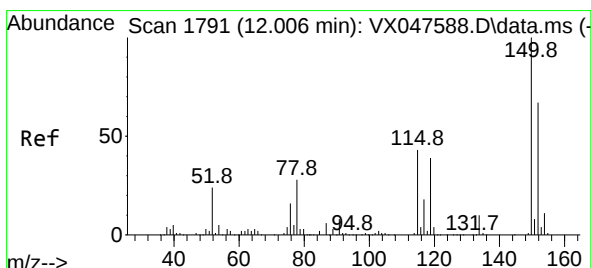
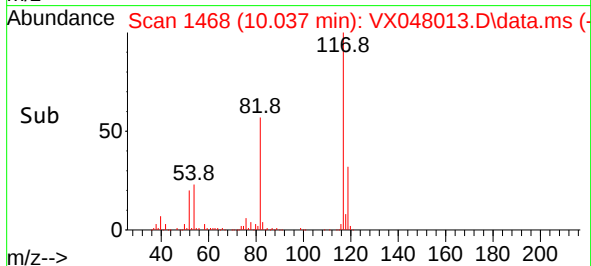
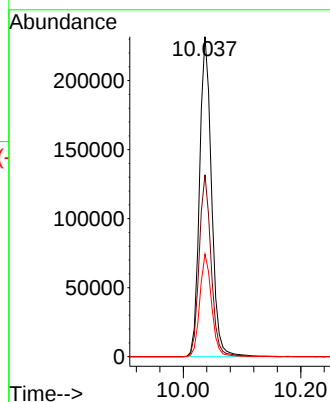
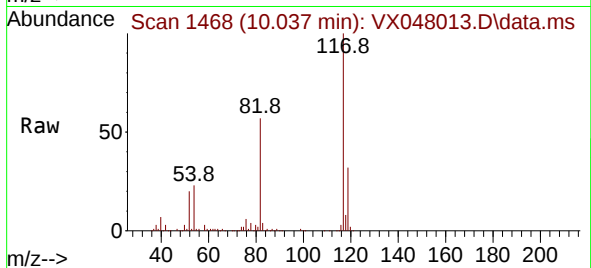
Tgt Ion:117 Resp: 327577

Ion Ratio Lower Upper

117 100

82 56.8 47.8 71.6

119 32.1 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX048013.D

Acq: 06 Oct 2025 11:13

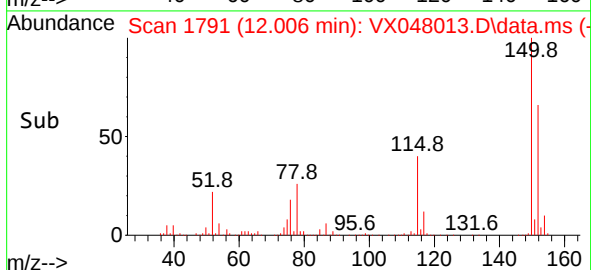
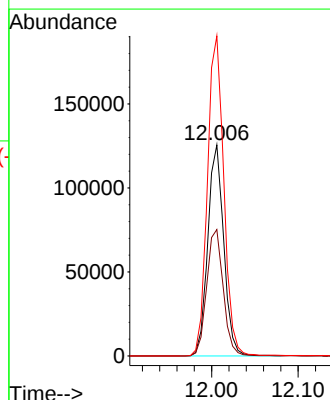
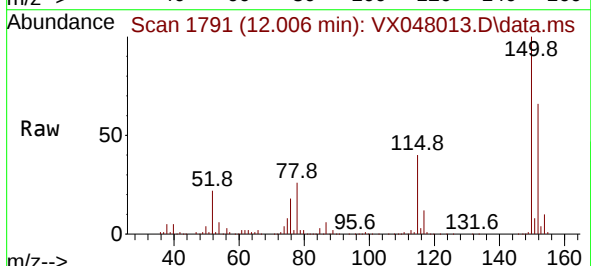
Tgt Ion:152 Resp: 161049

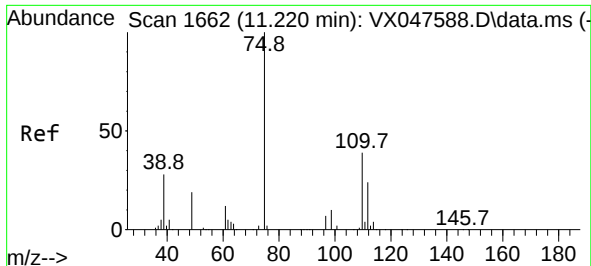
Ion Ratio Lower Upper

152 100

115 62.0 44.9 134.5

150 155.0 0.0 352.0

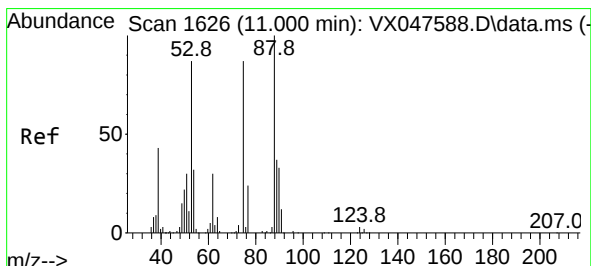
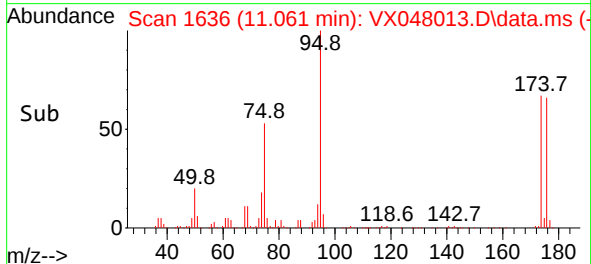
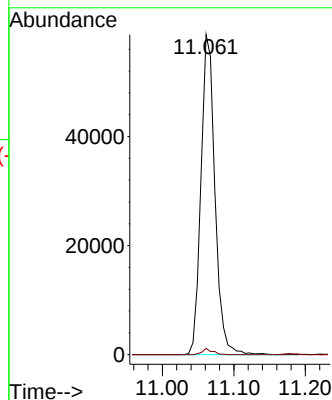
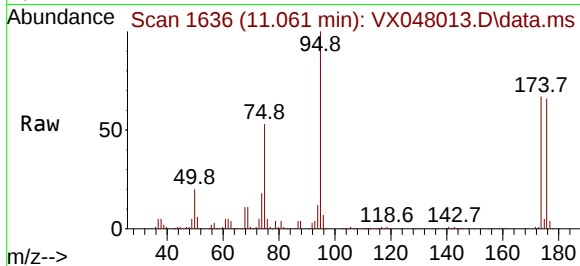




#76
1,2,3-Trichloropropane
Concen: 24.478 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

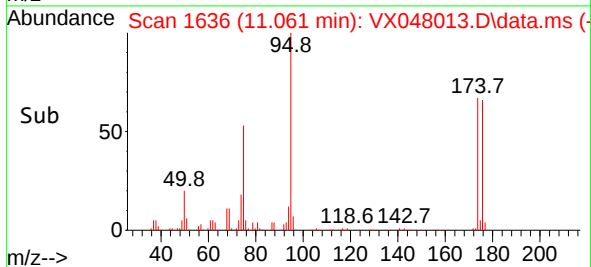
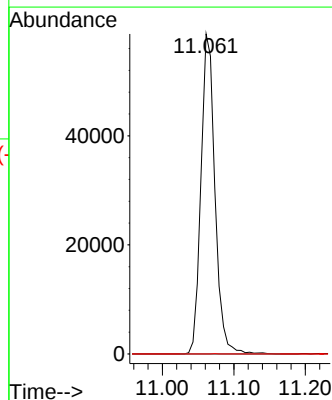
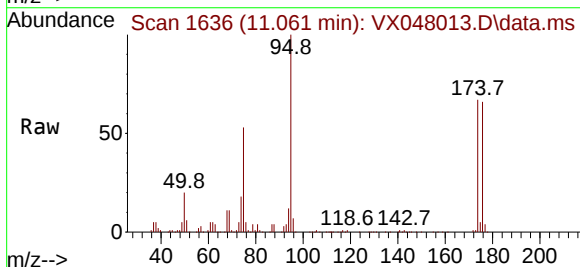
Instrument :
MSVOA_X
ClientSampleId :
TB

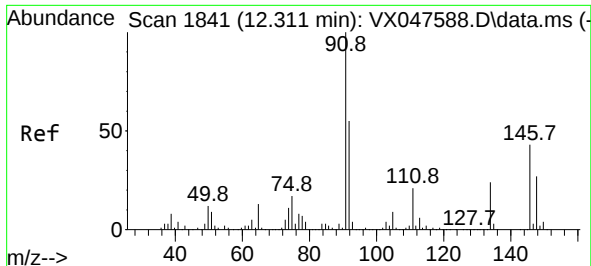
Tgt Ion: 75 Resp: 79816
Ion Ratio Lower Upper
75 100
77 1.4 18.8 56.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.422 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048013.D
Acq: 06 Oct 2025 11:13

Tgt Ion: 75 Resp: 79816
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#





#89

n-Butylbenzene

Concen: 0.251 ug/l

RT: 12.317 min Scan# 1841

Delta R.T. 0.006 min

Lab File: VX048013.D

Acq: 06 Oct 2025 11:13

Instrument :

MSVOA_X

ClientSampleId :

TB

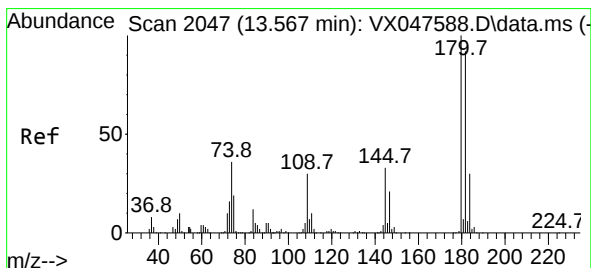
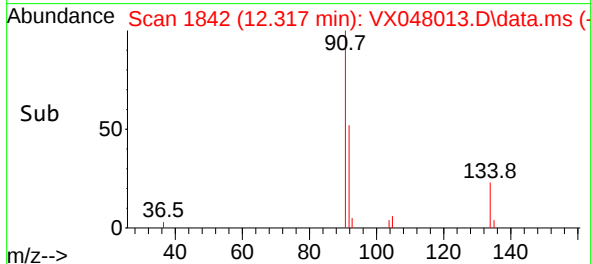
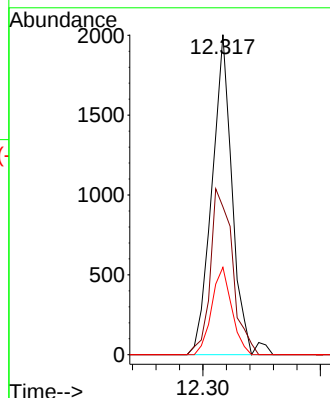
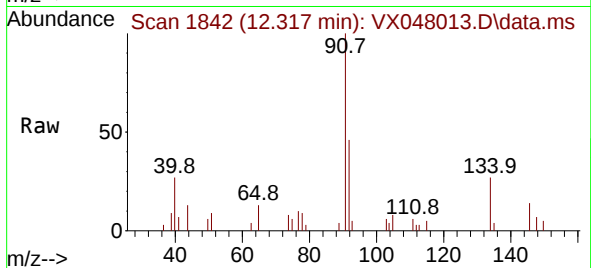
Tgt Ion: 91 Resp: 2406

Ion Ratio Lower Upper

91 100

92 56.4 27.6 82.7

134 26.8 12.6 37.8



#93

1,2,4-Trichlorobenzene

Concen: 0.294 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. 0.000 min

Lab File: VX048013.D

Acq: 06 Oct 2025 11:13

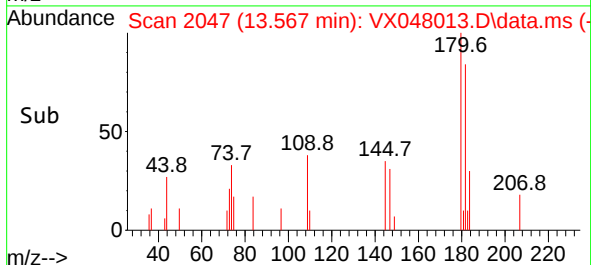
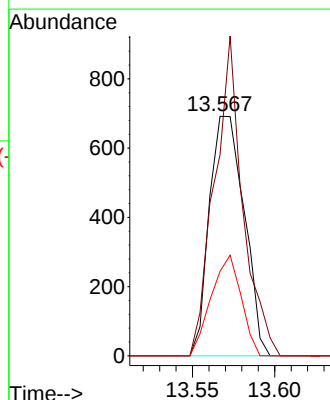
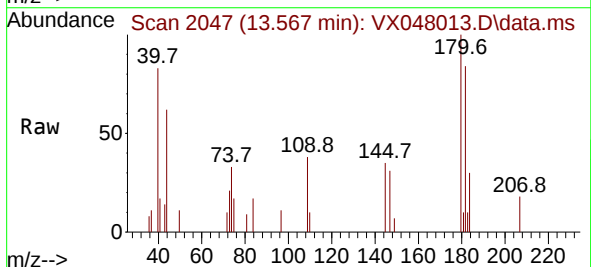
Tgt Ion: 180 Resp: 1019

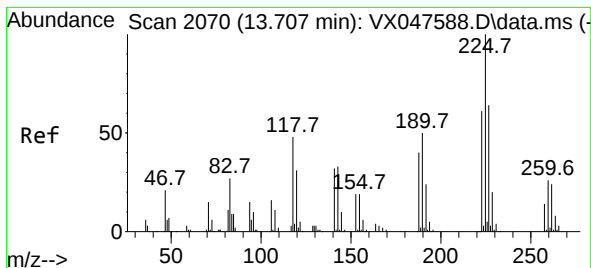
Ion Ratio Lower Upper

180 100

182 108.1 46.6 139.8

145 36.2 16.4 49.1





#94

Hexachlorobutadiene

Concen: 1.082 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VX048013.D

Acq: 06 Oct 2025 11:13

Instrument :

MSVOA_X

ClientSampleId :

TB

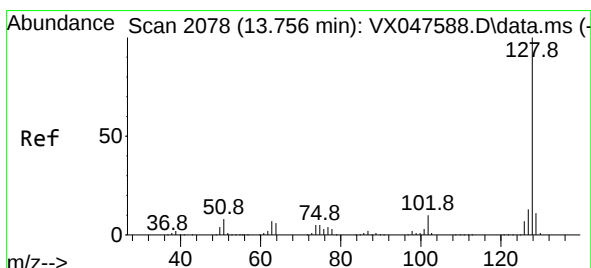
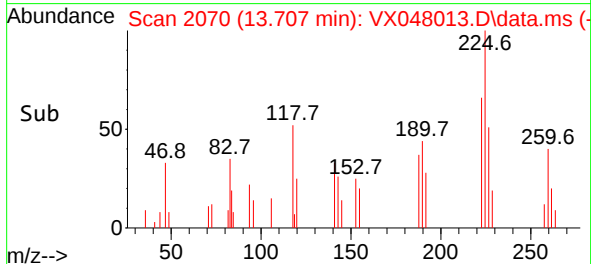
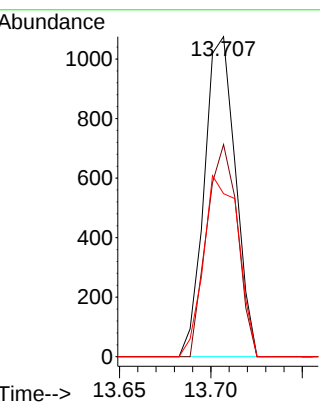
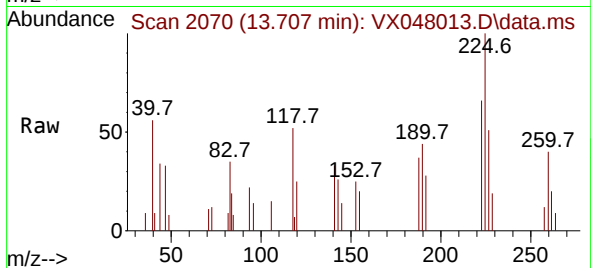
Tgt Ion:225 Resp: 1275

Ion Ratio Lower Upper

225 100

223 65.5 31.7 95.1

227 63.2 32.0 96.0



#95

Naphthalene

Concen: 0.233 ug/l

RT: 13.762 min Scan# 2079

Delta R.T. 0.006 min

Lab File: VX048013.D

Acq: 06 Oct 2025 11:13

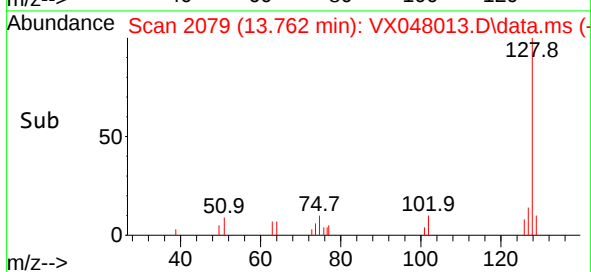
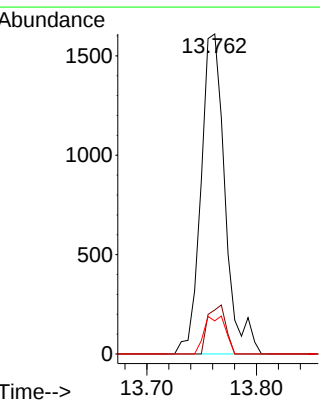
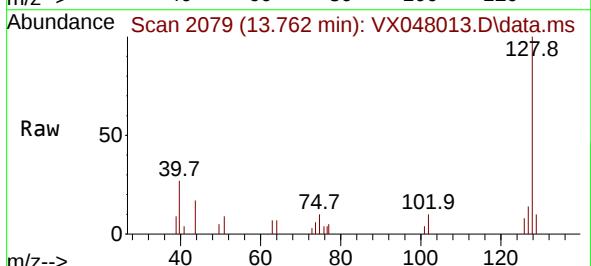
Tgt Ion:128 Resp: 2456

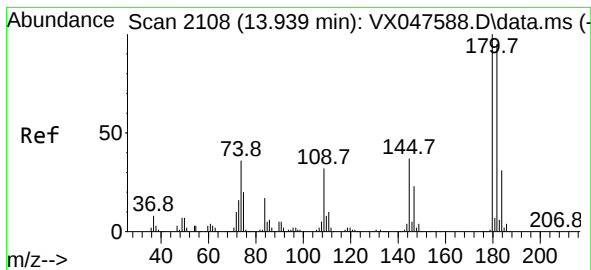
Ion Ratio Lower Upper

128 100

127 11.4 10.2 15.2

129 10.5 8.8 13.2





#96

1,2,3-Trichlorobenzene

Concen: 0.317 ug/l

RT: 13.945 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX048013.D

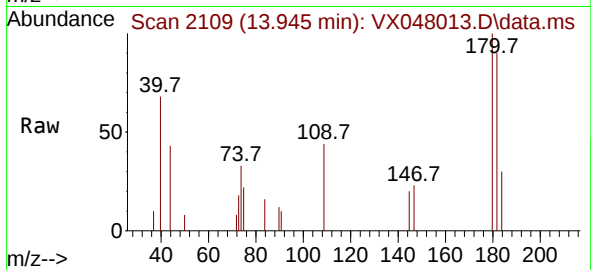
Acq: 06 Oct 2025 11:13

Instrument :

MSVOA_X

ClientSampleId :

TB



Tgt Ion:180 Resp: 1023

Ion Ratio Lower Upper

180 100

182 111.7 47.6 142.8

145 31.8 17.9 53.7

