

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
 Data File : VX047332.D
 Acq On : 13 Aug 2025 18:45
 Operator : JC/MD
 Sample : Q2815-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-88H-W

Quant Time: Aug 14 03:33:45 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)

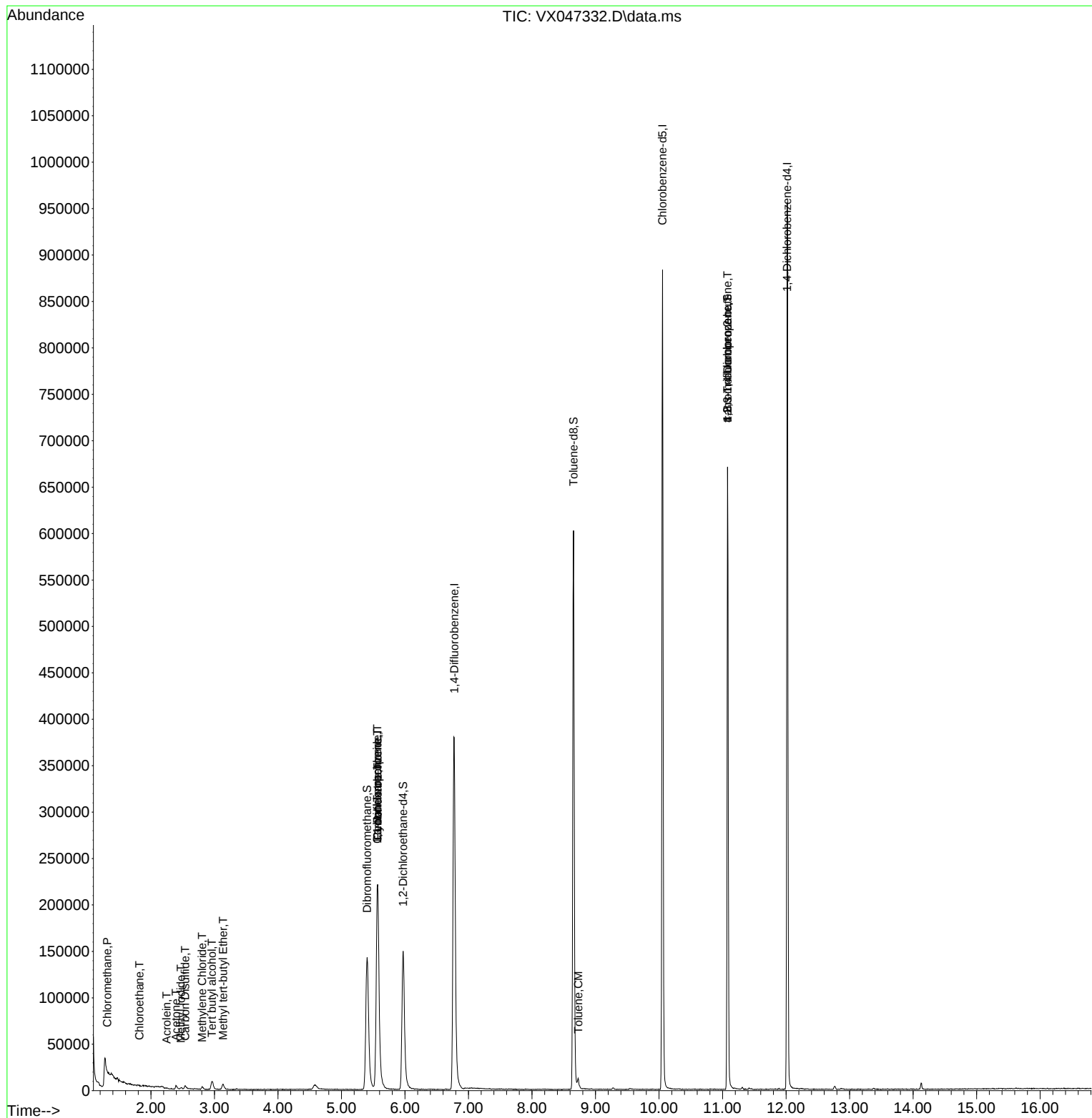
Internal Standards						
1) Pentafluorobenzene	5.568	168	224594	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	415771	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	385690	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	191376	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	158847	56.777	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 113.560%	
35) Dibromofluoromethane	5.403	113	137776	53.670	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.340%	
50) Toluene-d8	8.653	98	367053	44.151	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 88.300%#	
62) 4-Bromofluorobenzene	11.079	95	179361	50.064	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 100.120%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.313	50	957	0.324	ug/l #	73
6) Chloroethane	1.819	64	593	0.285	ug/l #	52
10) Methyl Iodide	2.471	142	1898	0.654	ug/l #	77
11) Tert butyl alcohol	2.959	59	5021	5.283	ug/l #	82
13) Acrolein	2.245	56	183	0.304	ug/l #	62
16) Acetone	2.392	43	5426	4.841	ug/l #	86
17) Carbon Disulfide	2.538	76	3137	0.384	ug/l #	91
19) Methyl tert-butyl Ether	3.136	73	6159	0.717	ug/l #	90
20) Methylene Chloride	2.806	84	1106	0.359	ug/l #	66
31) Cyclohexane	5.568	56	5214	0.997	ug/l #	4
36) 1,1-Dichloropropene	5.562	75	19144	4.375	ug/l #	48
38) Carbon Tetrachloride	5.562	117	23809	5.098	ug/l #	18
52) Toluene	8.726	92	4287	0.551	ug/l	100
76) 1,2,3-Trichloropropane	11.079	75	93569	26.415	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	93569	68.055	ug/l #	8

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

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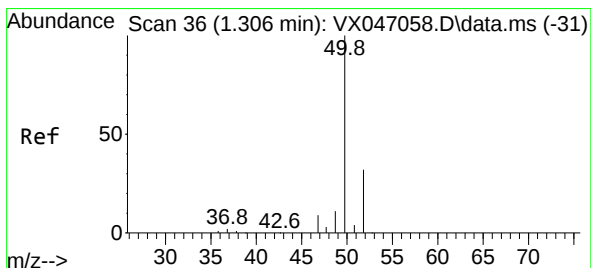
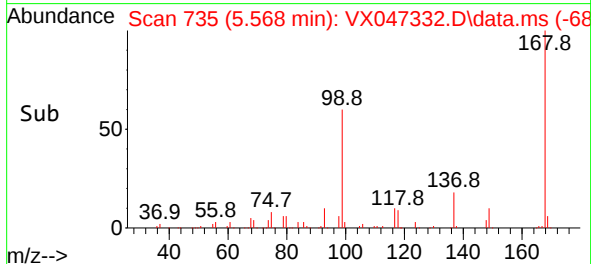
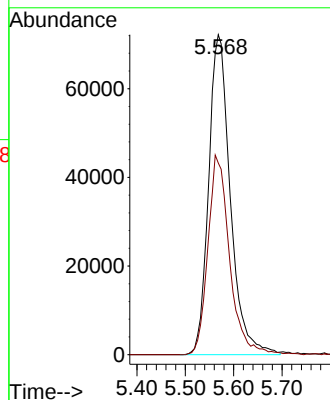
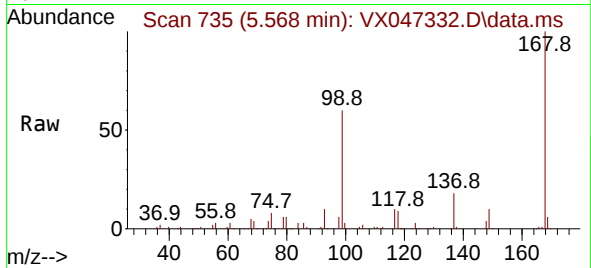




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

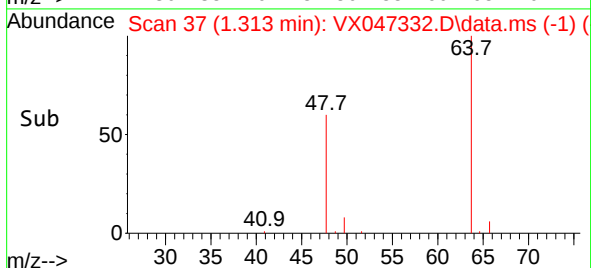
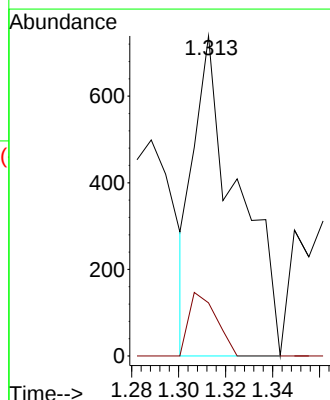
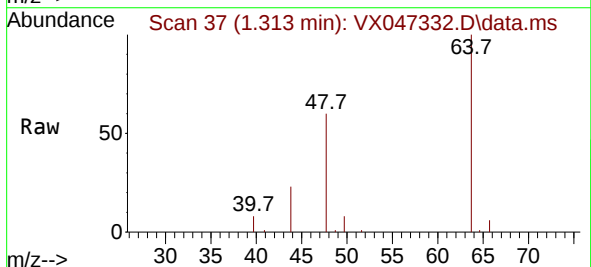
Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

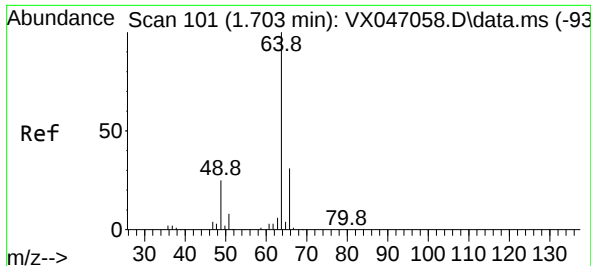
Tgt Ion:168 Resp: 224594
Ion Ratio Lower Upper
168 100
99 59.9 48.0 72.0



#3
Chloromethane
Concen: 0.324 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.006 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

Tgt Ion: 50 Resp: 957
Ion Ratio Lower Upper
50 100
52 16.6 25.4 38.2#

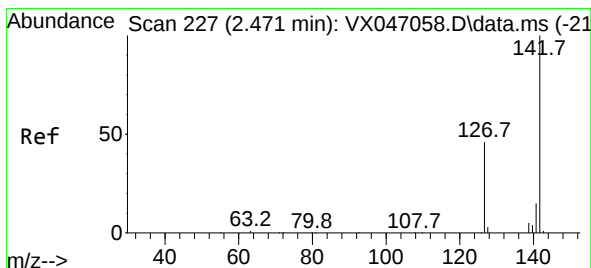
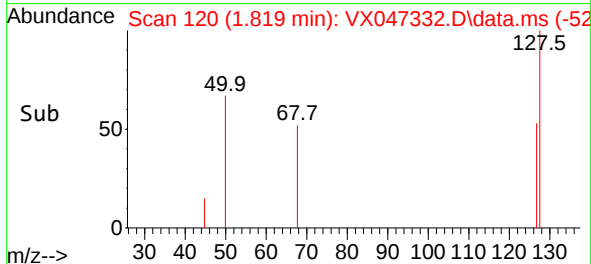
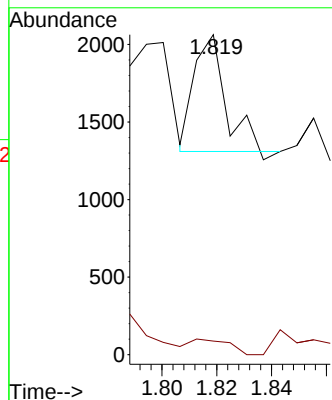
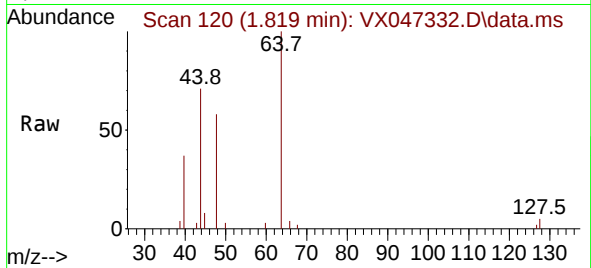




#6
Chloroethane
Concen: 0.285 ug/l
RT: 1.819 min Scan# 11
Delta R.T. 0.116 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

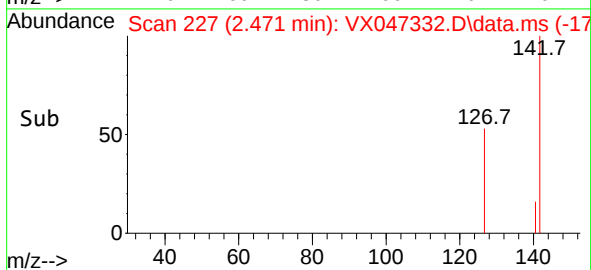
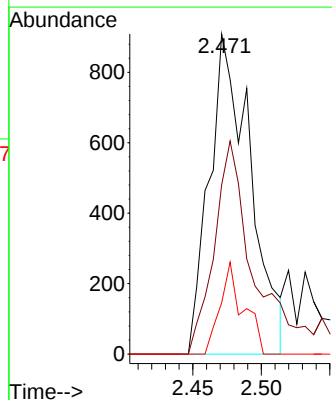
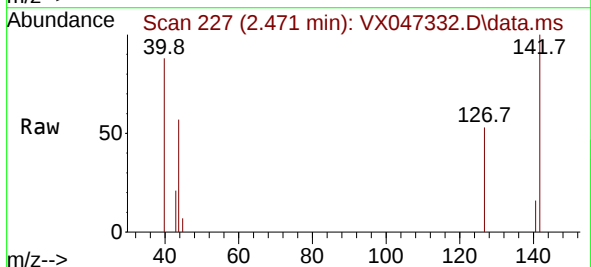
Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

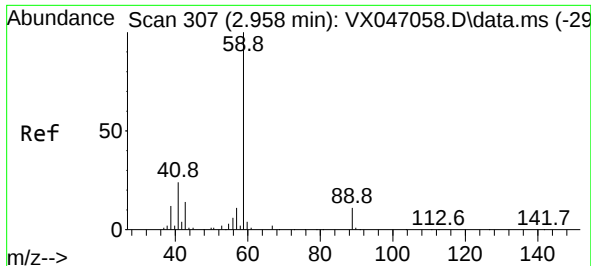
Tgt Ion: 64 Resp: 593
Ion Ratio Lower Upper
64 100
66 4.6 25.0 37.6#



#10
Methyl Iodide
Concen: 0.654 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

Tgt Ion: 142 Resp: 1898
Ion Ratio Lower Upper
142 100
127 64.0 36.6 54.8#
141 16.2 10.9 16.3

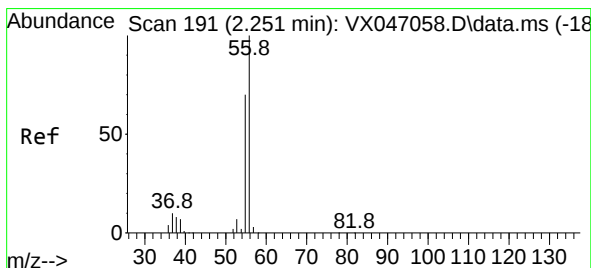
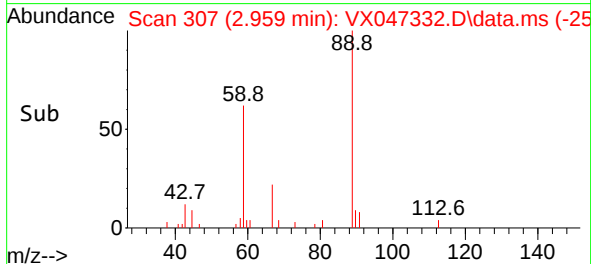
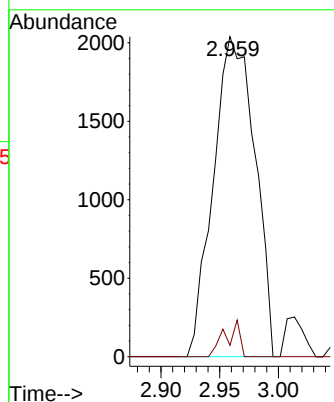
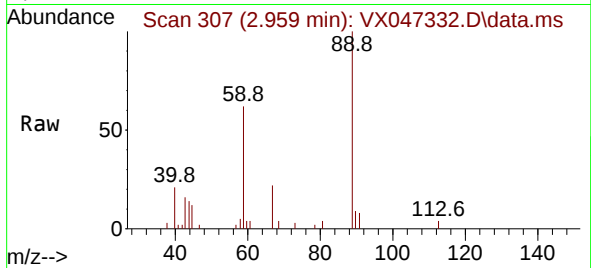




#11
Tert butyl alcohol
Concen: 5.283 ug/l
RT: 2.959 min Scan# 307
Delta R.T. 0.001 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

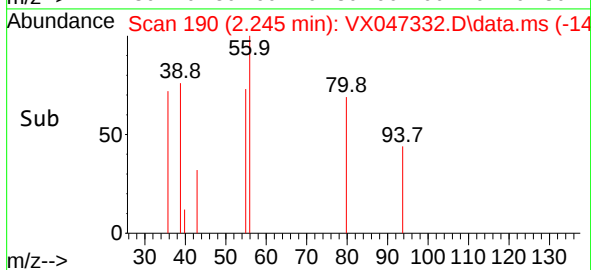
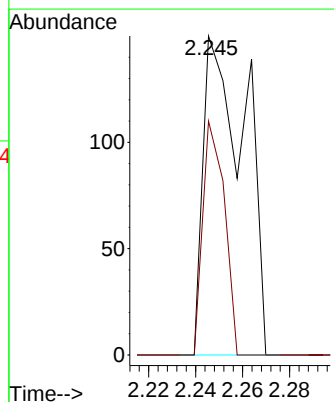
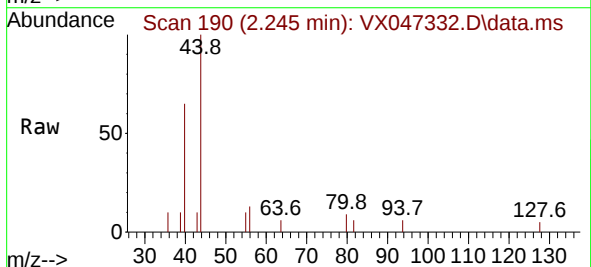
Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

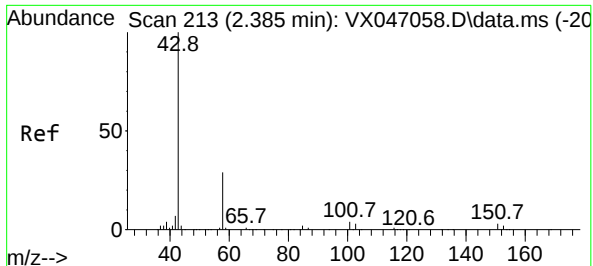
Tgt Ion: 59 Resp: 5021
Ion Ratio Lower Upper
59 100
57 4.0 8.5 12.7#



#13
Acrolein
Concen: 0.304 ug/l
RT: 2.245 min Scan# 190
Delta R.T. -0.006 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

Tgt Ion: 56 Resp: 183
Ion Ratio Lower Upper
56 100
55 38.3 55.7 83.5#

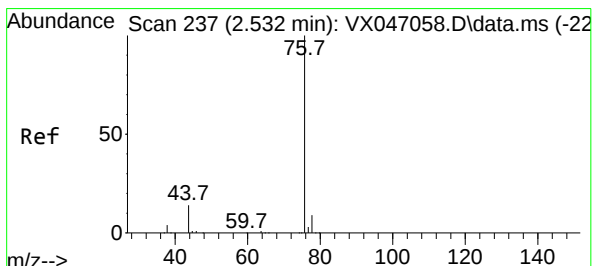
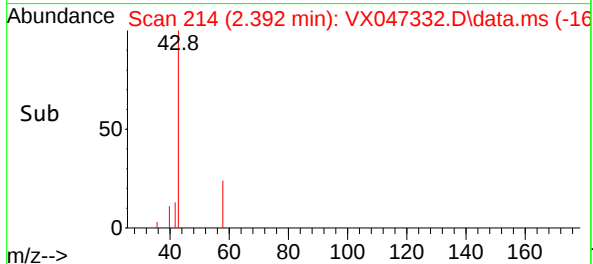
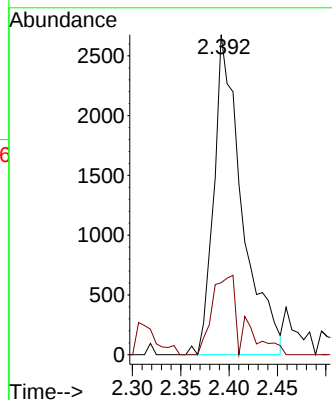
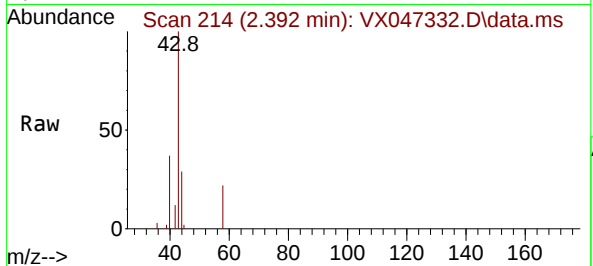




#16
Acetone
Concen: 4.841 ug/l
RT: 2.392 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

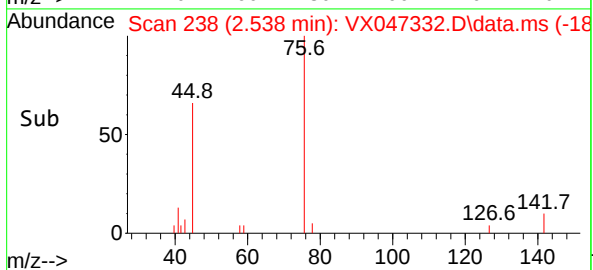
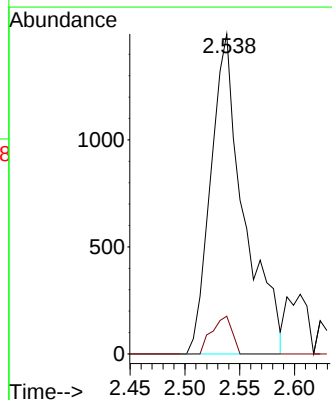
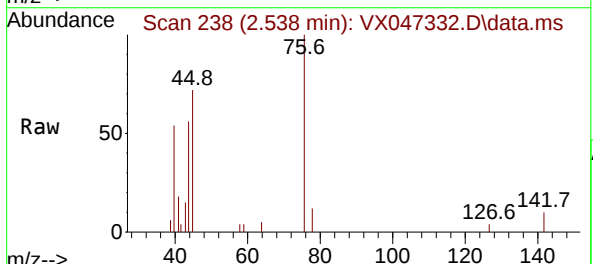
Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

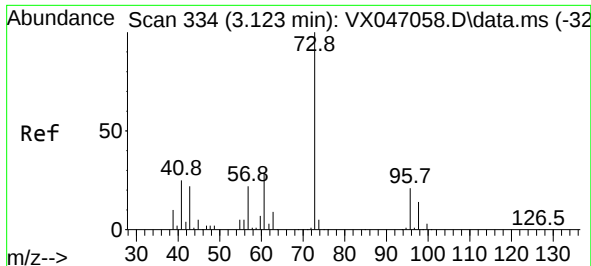
Tgt Ion: 43 Resp: 5426
Ion Ratio Lower Upper
43 100
58 22.5 24.0 36.0#



#17
Carbon Disulfide
Concen: 0.384 ug/l
RT: 2.538 min Scan# 238
Delta R.T. 0.006 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

Tgt Ion: 76 Resp: 3137
Ion Ratio Lower Upper
76 100
78 11.8 7.0 10.4#





#19

Methyl tert-butyl Ether

Concen: 0.717 ug/l

RT: 3.136 min Scan# 31

Delta R.T. 0.013 min

Lab File: VX047332.D

Acq: 13 Aug 2025 18:45

Instrument :

MSVOA_X

ClientSampleId :

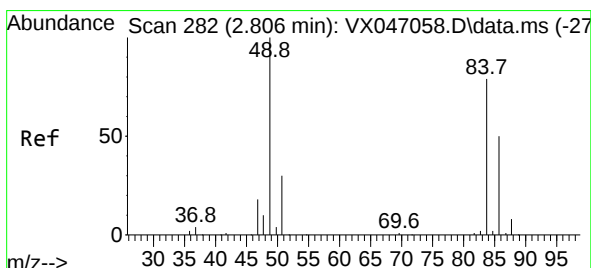
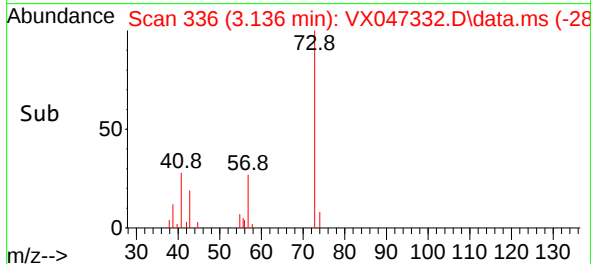
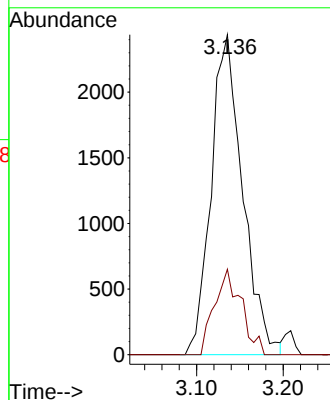
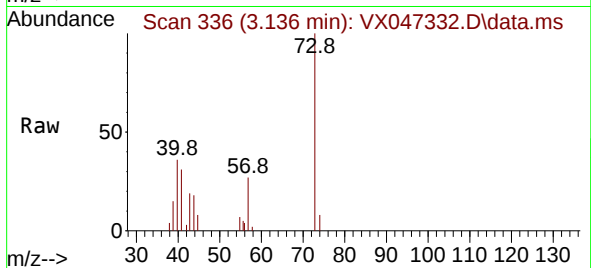
TW-88H-W

Tgt Ion: 73 Resp: 6159

Ion Ratio Lower Upper

73 100

57 26.7 17.7 26.5#



#20

Methylene Chloride

Concen: 0.359 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX047332.D

Acq: 13 Aug 2025 18:45

Tgt Ion: 84 Resp: 1106

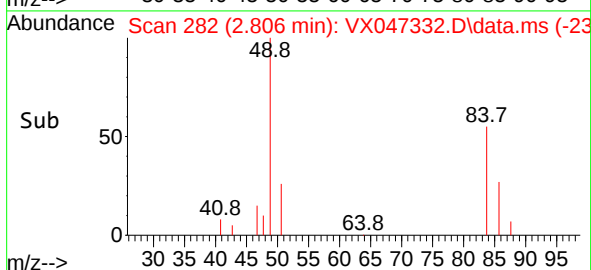
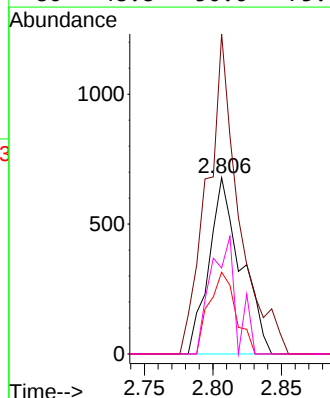
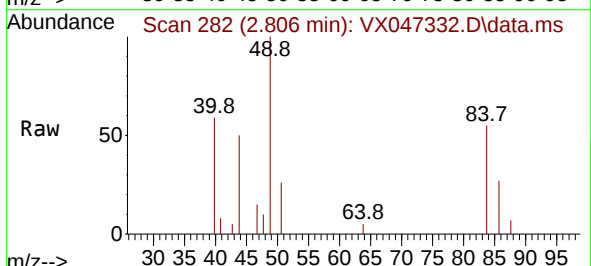
Ion Ratio Lower Upper

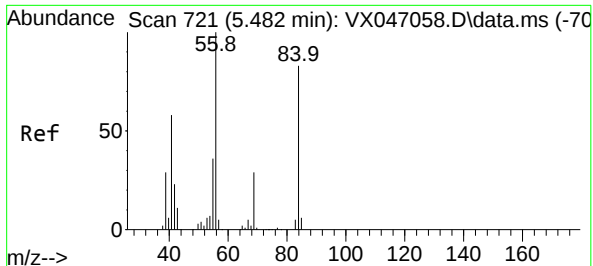
84 100

49 181.7 101.6 152.4#

51 46.5 30.3 45.5#

86 48.8 50.6 75.8#

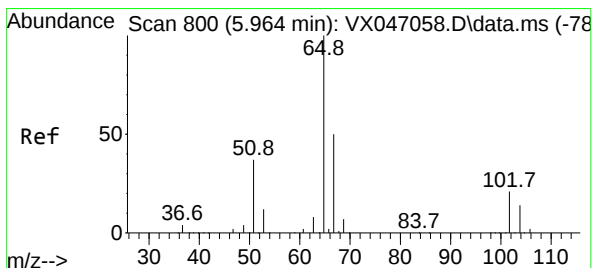
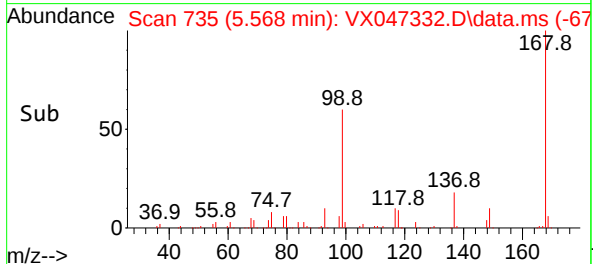
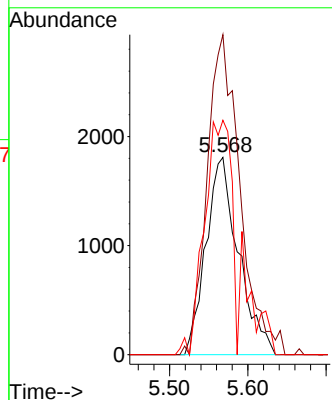
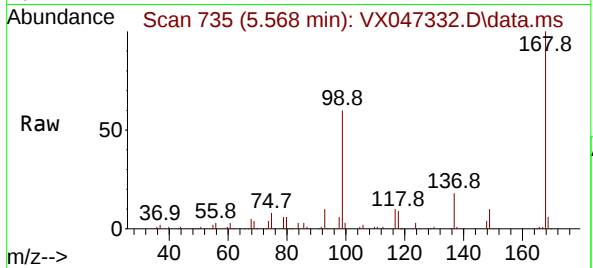




#31
Cyclohexane
Concen: 0.997 ug/l
RT: 5.568 min Scan# 714
Delta R.T. 0.086 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

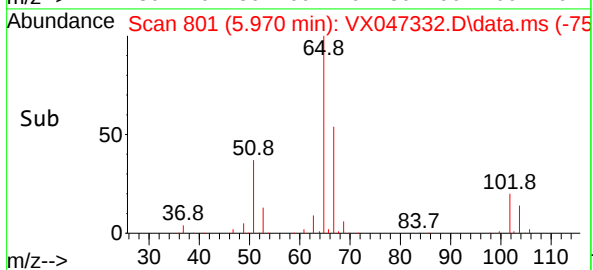
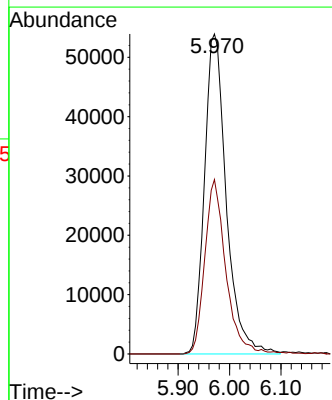
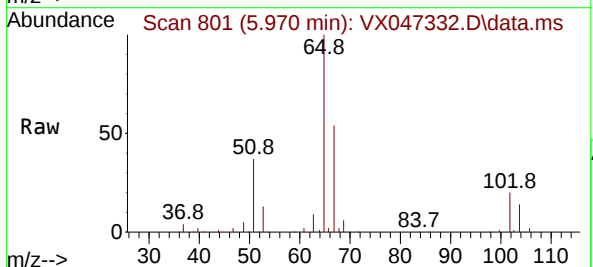
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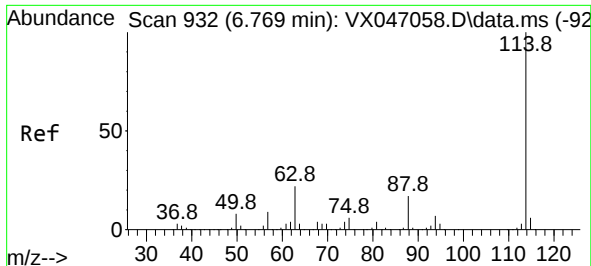
Tgt Ion: 56 Resp: 5214
Ion Ratio Lower Upper
56 100
69 167.2 23.3 34.9#
84 118.8 66.5 99.7#



#33
1,2-Dichloroethane-d4
Concen: 56.777 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.006 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

Tgt Ion: 65 Resp: 158847
Ion Ratio Lower Upper
65 100
67 52.8 0.0 104.8

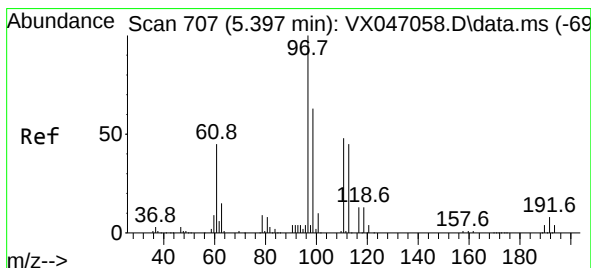
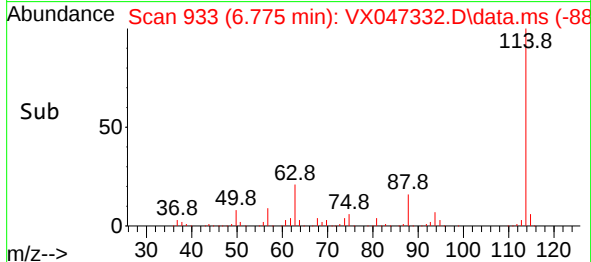
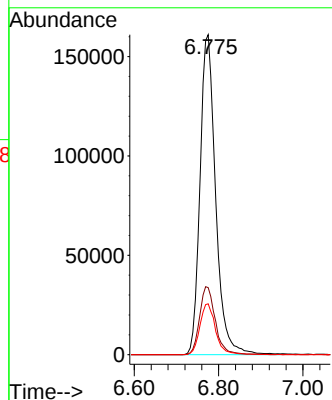
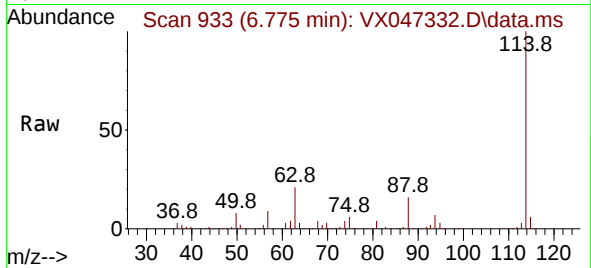




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.775 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

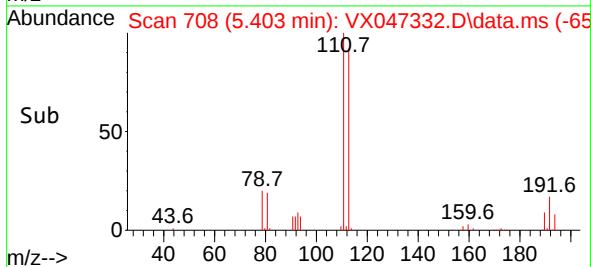
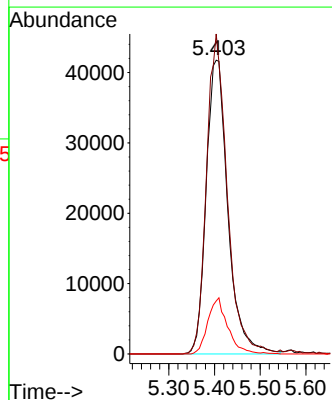
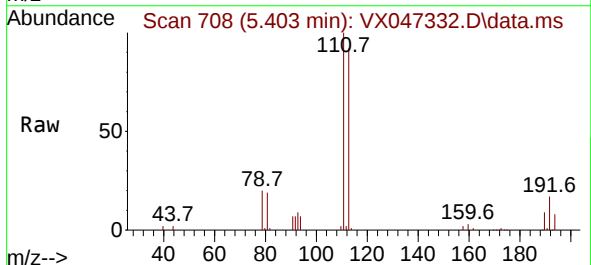
Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

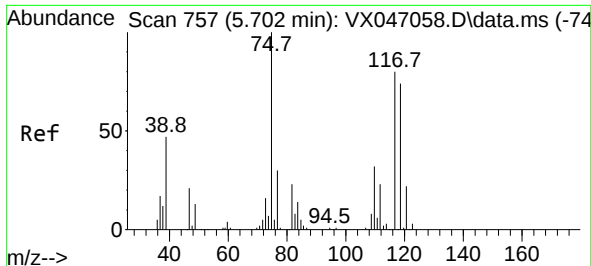
Tgt Ion:114 Resp: 415771
Ion Ratio Lower Upper
114 100
63 20.9 0.0 43.2
88 15.9 0.0 33.8



#35
Dibromofluoromethane
Concen: 53.670 ug/l
RT: 5.403 min Scan# 708
Delta R.T. 0.006 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

Tgt Ion:113 Resp: 137776
Ion Ratio Lower Upper
113 100
111 103.9 82.6 124.0
192 17.6 14.9 22.3

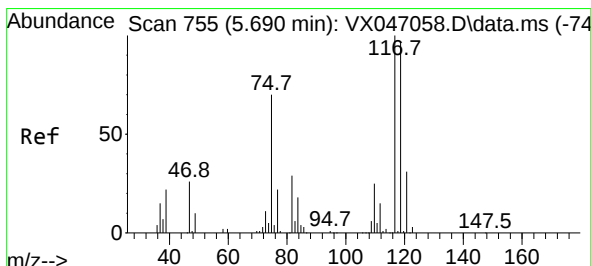
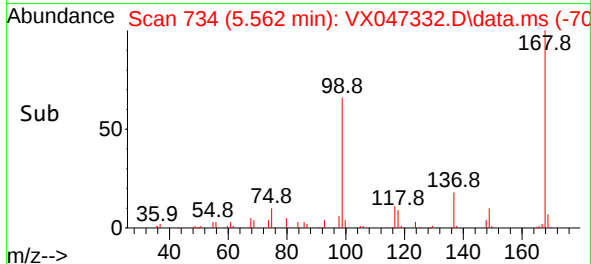
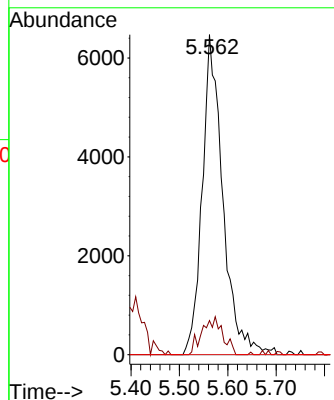
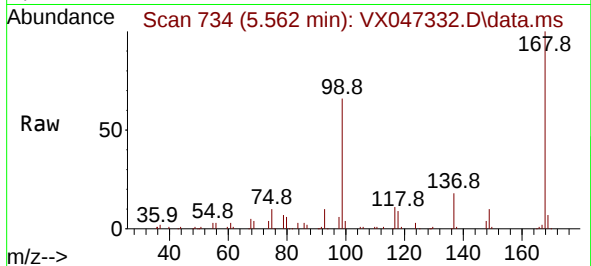




#36
1,1-Dichloropropene
Concen: 4.375 ug/l
RT: 5.562 min Scan# 714
Delta R.T. -0.140 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

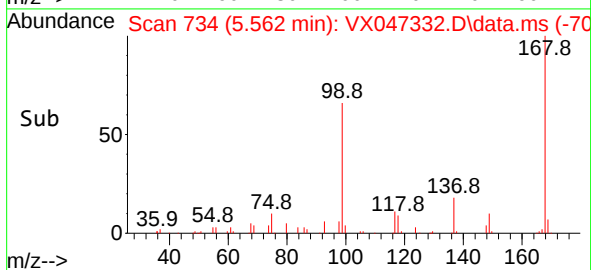
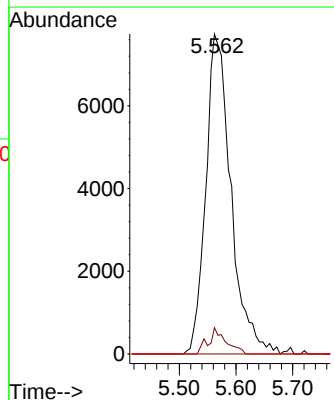
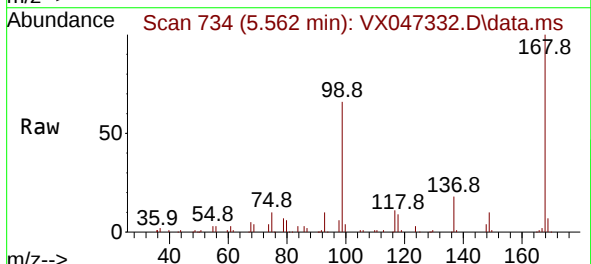
Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

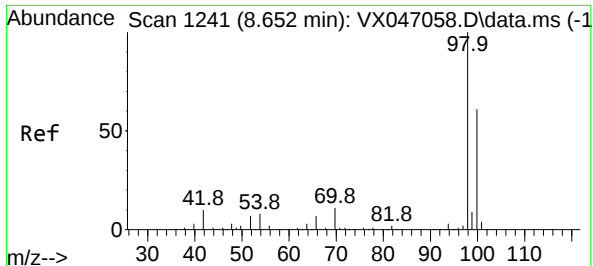
Tgt Ion: 75 Resp: 19144
Ion Ratio Lower Upper
75 100
110 6.5 17.2 51.5#
77 0.0 25.1 37.7#



#38
Carbon Tetrachloride
Concen: 5.098 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.128 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

Tgt Ion: 117 Resp: 23809
Ion Ratio Lower Upper
117 100
119 8.2 76.6 115.0#
121 0.0 24.4 36.6#

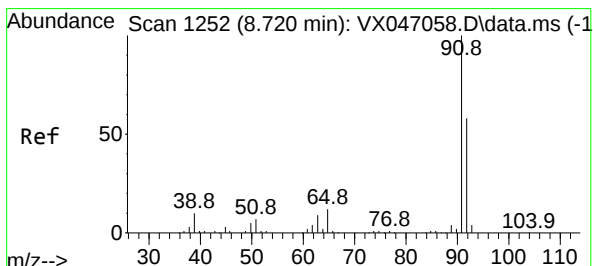
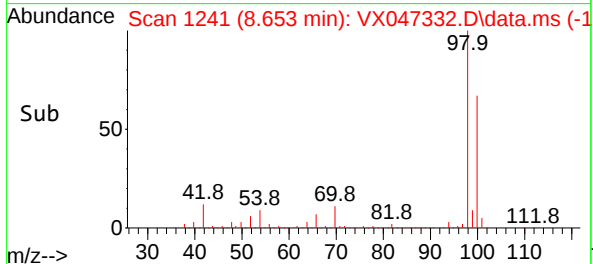
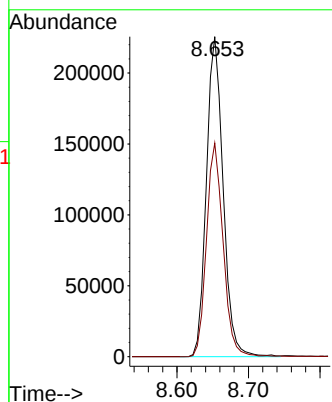
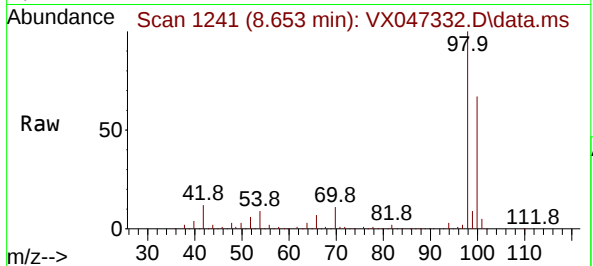




#50
Toluene-d8
Concen: 44.151 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

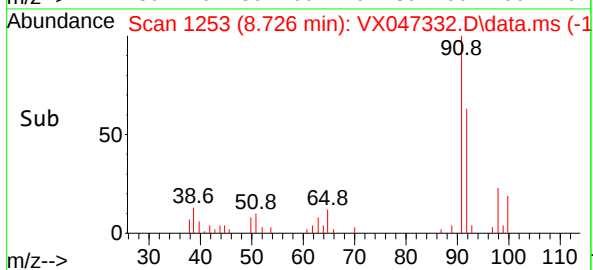
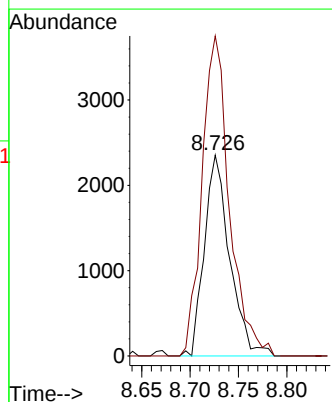
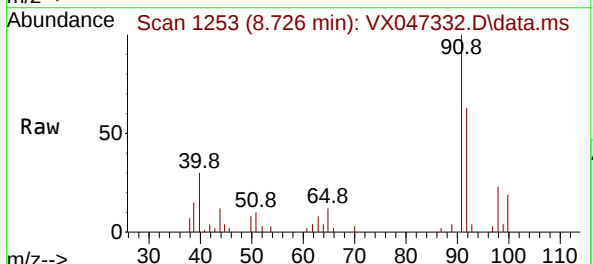
Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

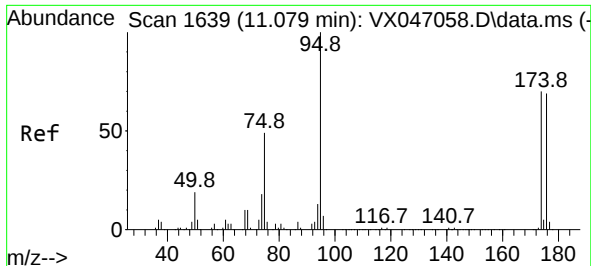
Tgt Ion: 98 Resp: 367053
Ion Ratio Lower Upper
98 100
100 66.4 53.3 79.9



#52
Toluene
Concen: 0.551 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

Tgt Ion: 92 Resp: 4287
Ion Ratio Lower Upper
92 100
91 171.9 137.9 206.9

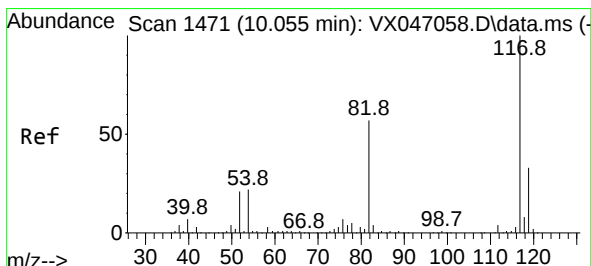
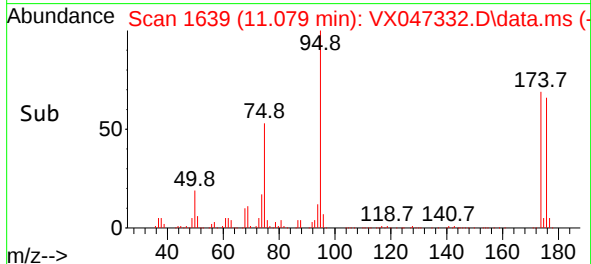
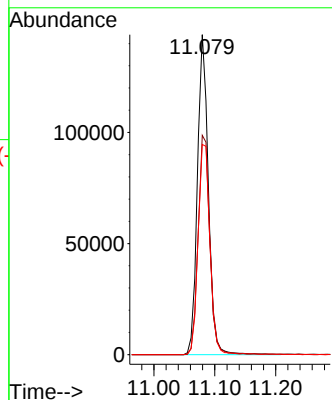
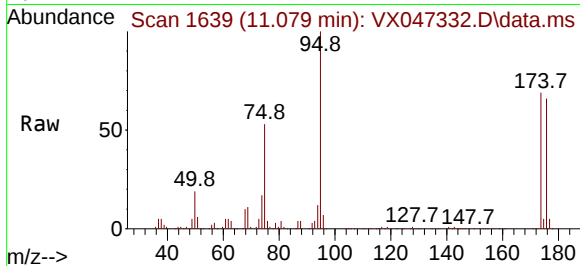




#62
4-Bromofluorobenzene
Concen: 50.064 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

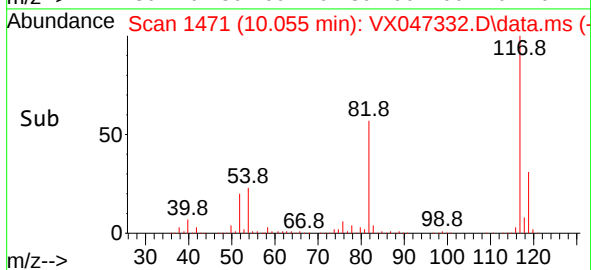
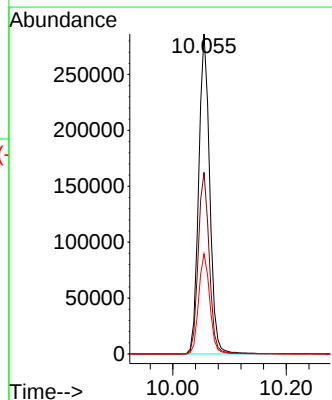
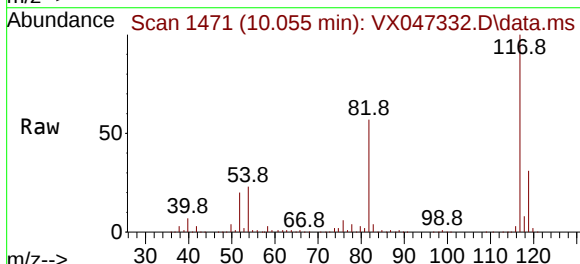
Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

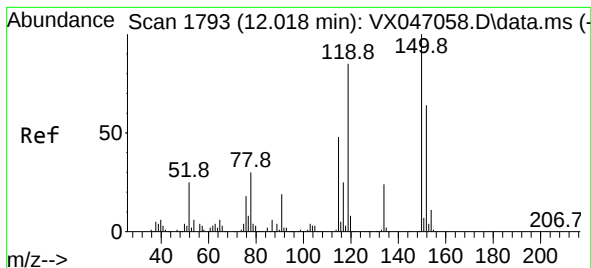
Tgt Ion: 95 Resp: 179361
Ion Ratio Lower Upper
95 100
174 73.4 0.0 144.6
176 71.3 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047332.D
Acq: 13 Aug 2025 18:45

Tgt Ion: 117 Resp: 385690
Ion Ratio Lower Upper
117 100
82 56.7 45.4 68.2
119 31.3 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: VX047332.D

Acq: 13 Aug 2025 18:45

Instrument :

MSVOA_X

ClientSampleId :

TW-88H-W

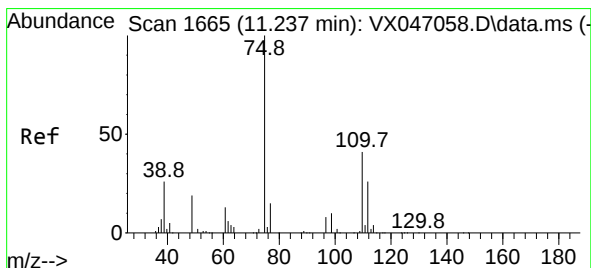
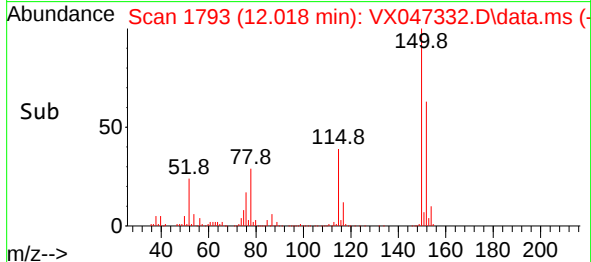
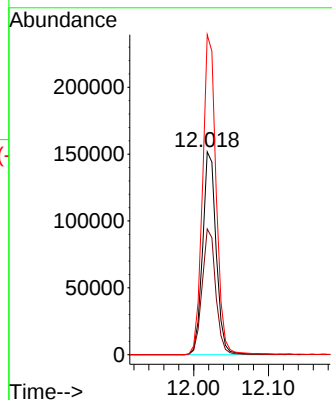
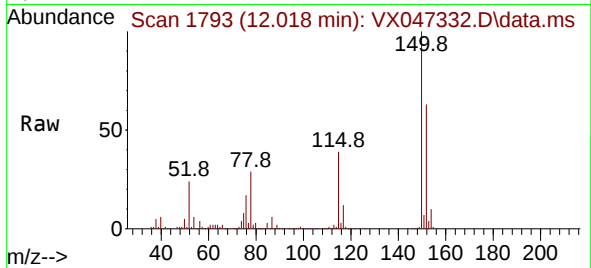
Tgt Ion:152 Resp: 191376

Ion Ratio Lower Upper

152 100

115 62.1 45.6 136.7

150 157.9 0.0 354.6



#76

1,2,3-Trichloropropane

Concen: 26.415 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX047332.D

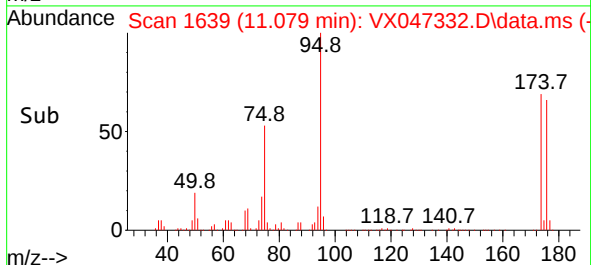
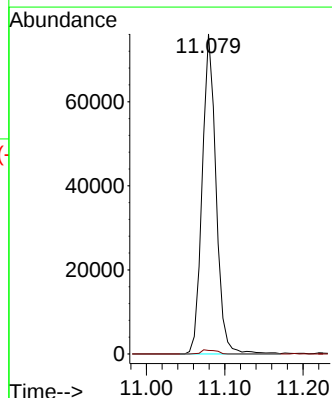
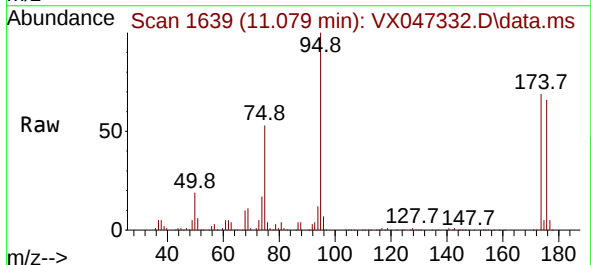
Acq: 13 Aug 2025 18:45

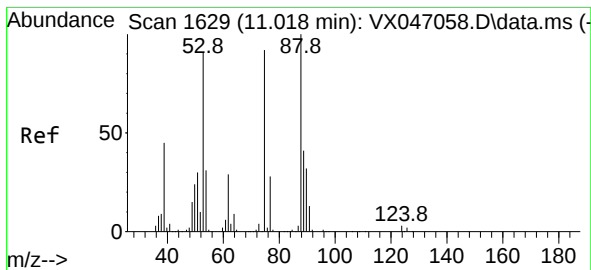
Tgt Ion: 75 Resp: 93569

Ion Ratio Lower Upper

75 100

77 1.4 21.6 65.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.055 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.061 min
 Lab File: VX047332.D
 Acq: 13 Aug 2025 18:45

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-88H-W

Tgt Ion: 75 Resp: 93569
 Ion Ratio Lower Upper
 75 100
 53 0.1 84.2 126.4#
 89 0.0 36.0 54.0#

