

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100925\
 Data File : VX048084.D
 Acq On : 09 Oct 2025 14:20
 Operator : JC/MD
 Sample : Q3311-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2S

Quant Time: Oct 10 01:24:38 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)

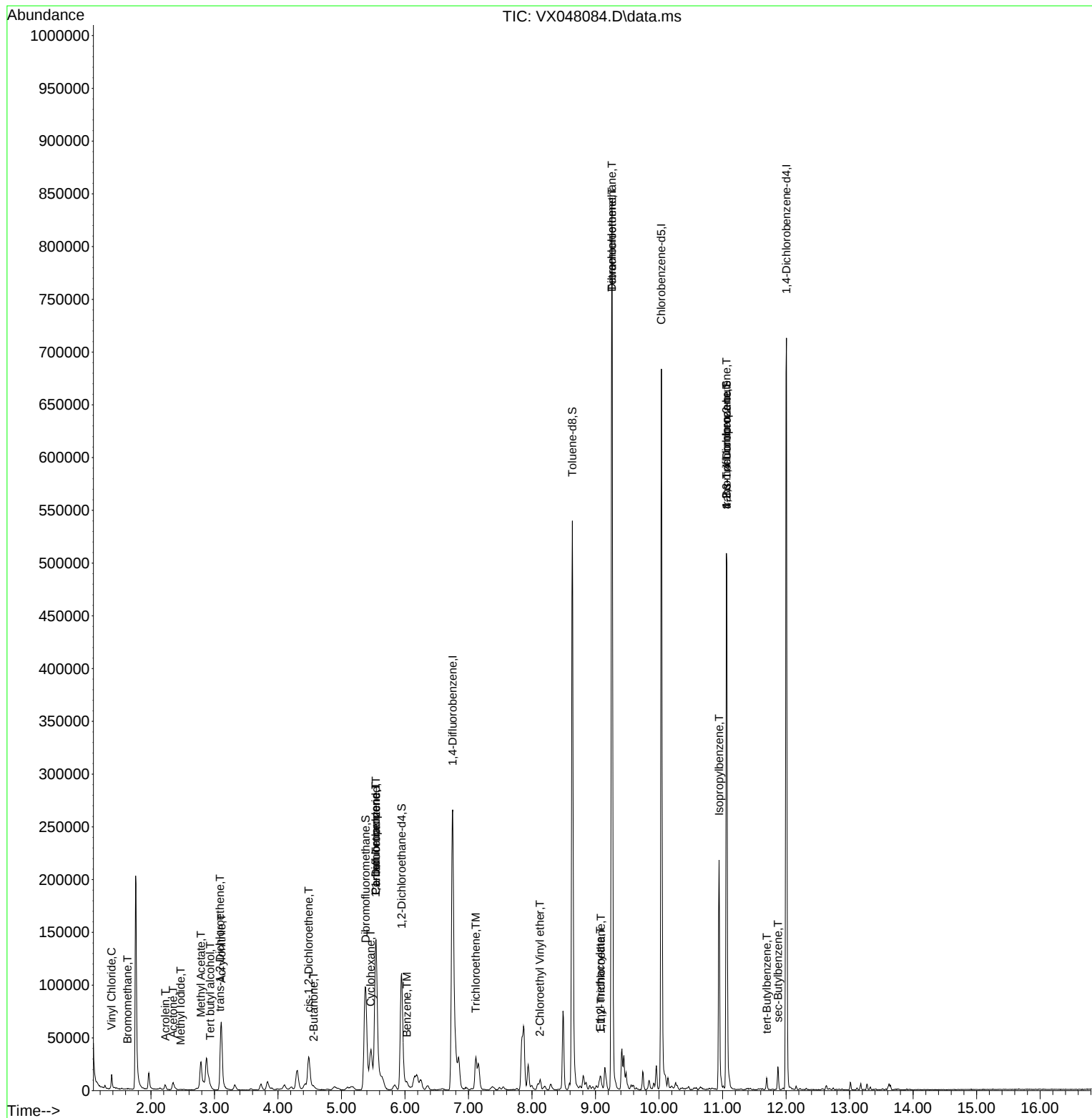
Internal Standards						
1) Pentafluorobenzene	5.544	168	141458	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	285694	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	303599	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	152199	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	119761	53.188	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 106.380%	
35) Dibromofluoromethane	5.379	113	96388	50.306	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.620%	
50) Toluene-d8	8.635	98	329788	49.743	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 99.480%	
62) 4-Bromofluorobenzene	11.061	95	146430	58.196	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 116.400%	
Target Compounds						Qvalue
4) Vinyl Chloride	1.380	62	695	0.369	ug/l	95
5) Bromomethane	1.630	94	278	0.233	ug/l	89
10) Methyl Iodide	2.465	142	577	0.226	ug/l #	87
11) Tert butyl alcohol	2.934	59	796	3.174	ug/l #	72
13) Acrolein	2.227	56	168	0.727	ug/l #	1
15) Acrylonitrile	3.111	53	1912	2.058	ug/l #	42
16) Acetone	2.349	43	4474	4.570	ug/l #	59
18) Methyl Acetate	2.788	43	26098	11.978	ug/l #	54
21) trans-1,2-Dichloroethene	3.087	96	436	0.241	ug/l #	63
25) 2-Butanone	4.562	43	5757	4.714	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	21123	9.532	ug/l	91
31) Cyclohexane	5.458	56	24169	8.123	ug/l	95
36) 1,1-Dichloropropene	5.538	75	11997	4.285	ug/l #	43
38) Carbon Tetrachloride	5.544	117	15257	5.015	ug/l #	17
40) Benzene	6.031	78	6425	0.756	ug/l	91
44) Trichloroethene	7.117	130	13233	6.437	ug/l	95
55) 1,1,2-Trichloroethane	9.086	97	636	0.315	ug/l #	23
56) Ethyl methacrylate	9.074	69	716	0.226	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.123	63	151	7.992	ug/l #	47
60) Dibromochloromethane	9.256	129	158449	68.072	ug/l #	11
64) Tetrachloroethene	9.256	164	159570	80.626	ug/l	99
73) Isopropylbenzene	10.945	105	109954	9.502	ug/l	98
76) 1,2,3-Trichloropropane	11.061	75	77950	25.296	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.061	75	77950	64.508	ug/l #	8
83) tert-Butylbenzene	11.695	119	3850	0.396	ug/l	75
85) sec-Butylbenzene	11.872	105	10747	0.930	ug/l	99

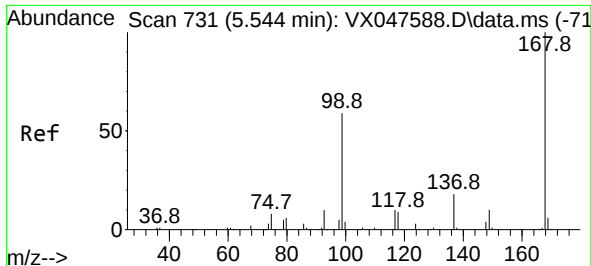
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100925\
Data File : VX048084.D
Acq On : 09 Oct 2025 14:20
Operator : JC/MD
Sample : Q3311-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-2S

Quant Time: Oct 10 01:24:38 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

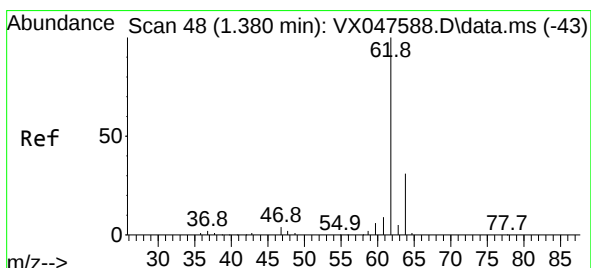
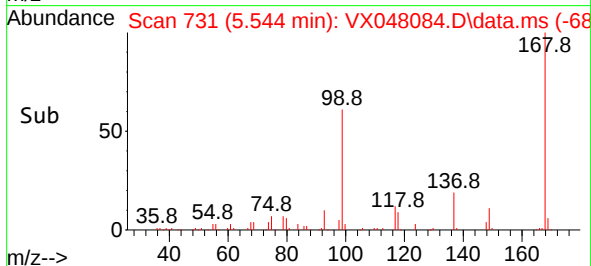
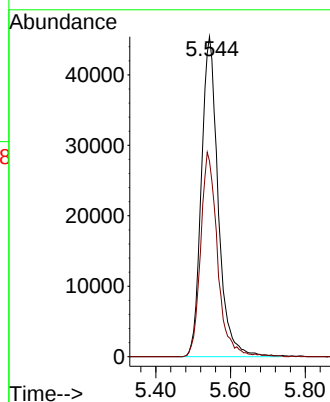
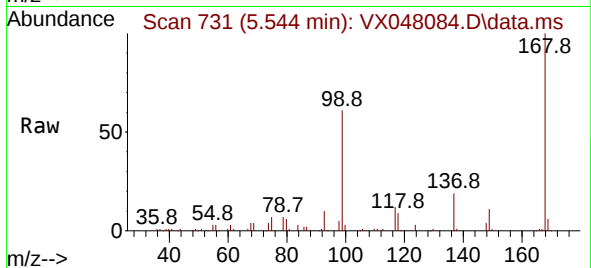




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

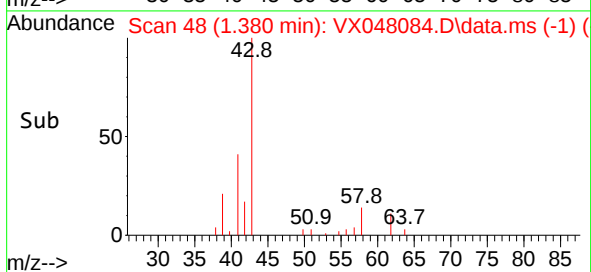
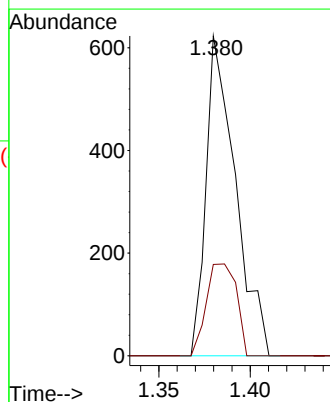
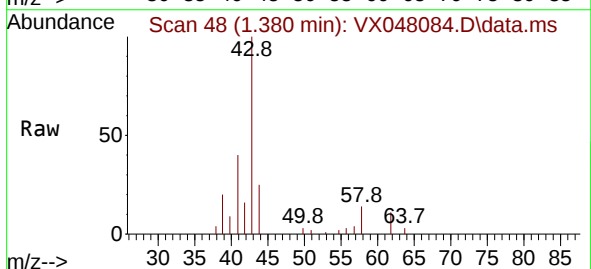
Instrument :
MSVOA_X
ClientSampleId :
MW-2S

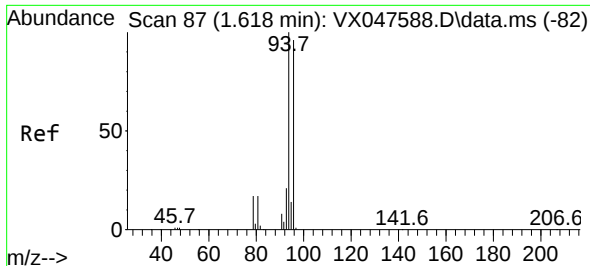
Tgt Ion:168 Resp: 141458
Ion Ratio Lower Upper
168 100
99 61.1 48.8 73.2



#4
Vinyl Chloride
Concen: 0.369 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Tgt Ion: 62 Resp: 695
Ion Ratio Lower Upper
62 100
64 28.6 24.9 37.3

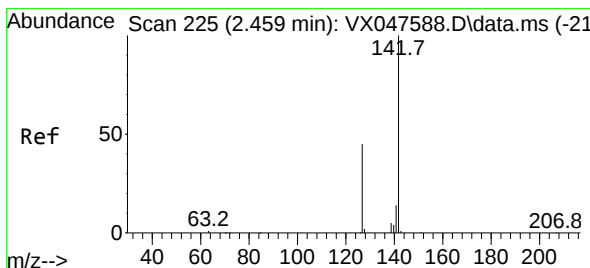
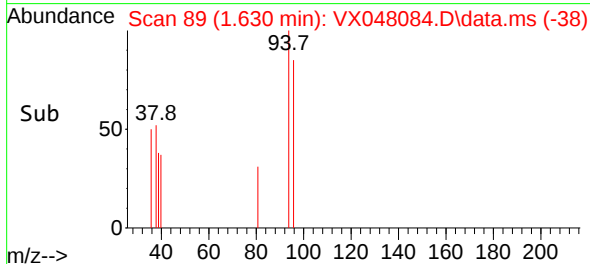
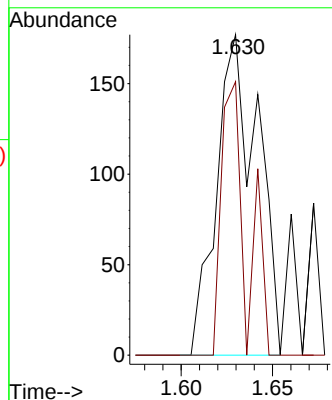
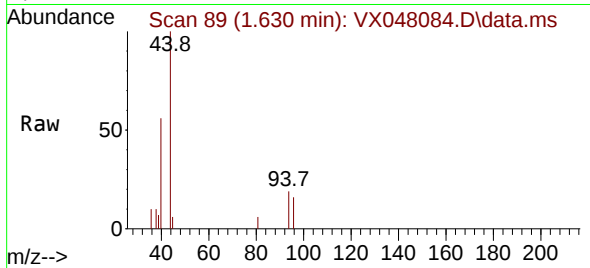




#5
Bromomethane
Concen: 0.233 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

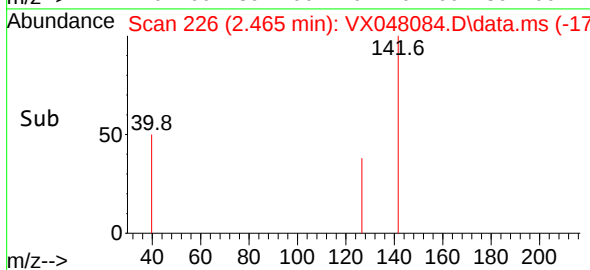
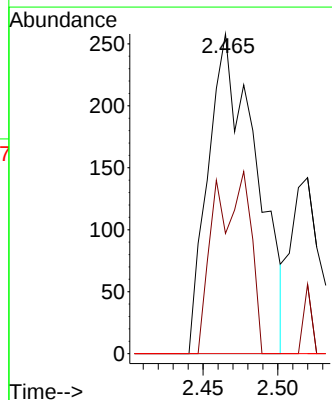
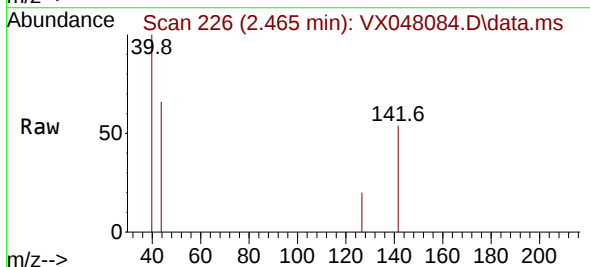
Instrument :
MSVOA_X
ClientSampleId :
MW-2S

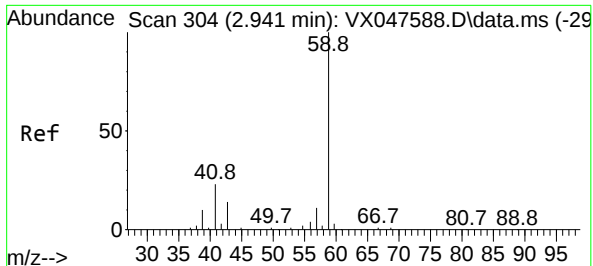
Tgt Ion: 94 Resp: 278
Ion Ratio Lower Upper
94 100
96 85.3 76.6 115.0



#10
Methyl Iodide
Concen: 0.226 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Tgt Ion: 142 Resp: 577
Ion Ratio Lower Upper
142 100
127 42.3 37.2 55.8
141 0.0 11.4 17.0#





#11

Tert butyl alcohol

Concen: 3.174 ug/l

RT: 2.934 min Scan# 304

Delta R.T. -0.006 min

Lab File: VX048084.D

Acq: 09 Oct 2025 14:20

Instrument :

MSVOA_X

ClientSampleId :

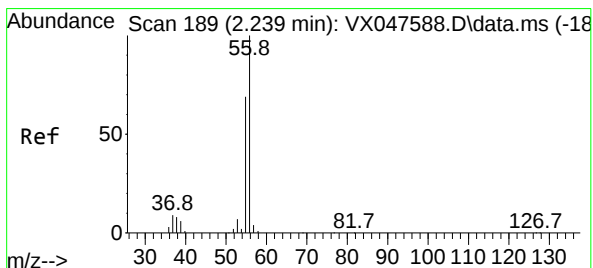
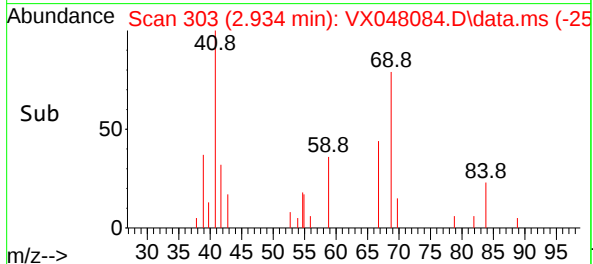
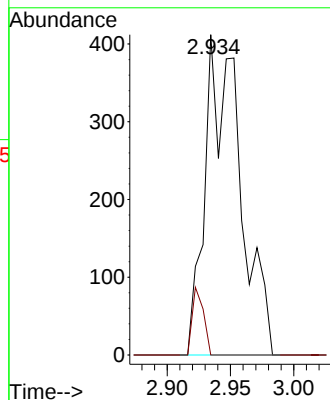
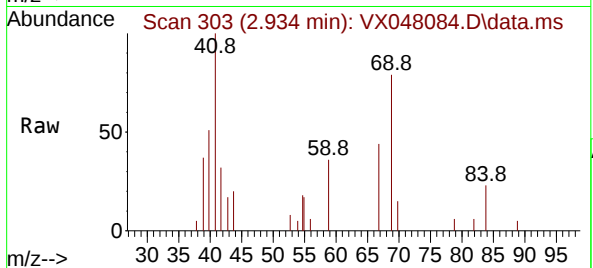
MW-2S

Tgt Ion: 59 Resp: 796

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: 0.727 ug/l

RT: 2.227 min Scan# 187

Delta R.T. -0.012 min

Lab File: VX048084.D

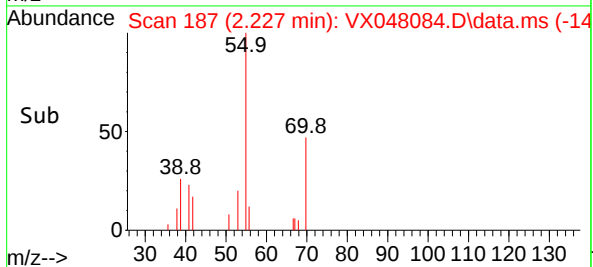
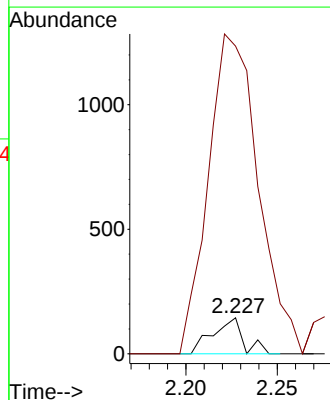
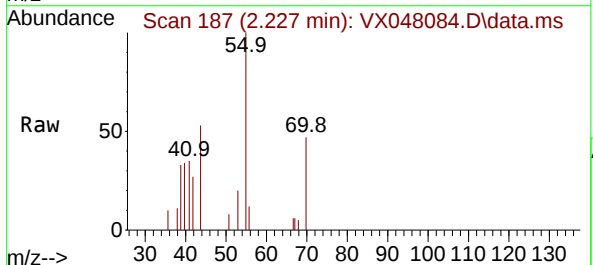
Acq: 09 Oct 2025 14:20

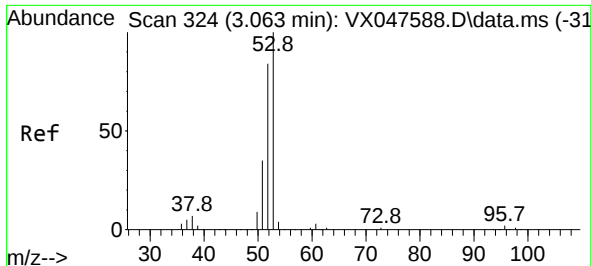
Tgt Ion: 56 Resp: 168

Ion Ratio Lower Upper

56 100

55 1458.9 57.2 85.8#





#15

Acrylonitrile

Concen: 2.058 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.049 min

Lab File: VX048084.D

Acq: 09 Oct 2025 14:20

Instrument :

MSVOA_X

ClientSampleId :

MW-2S

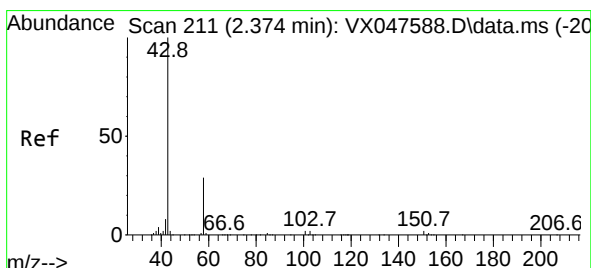
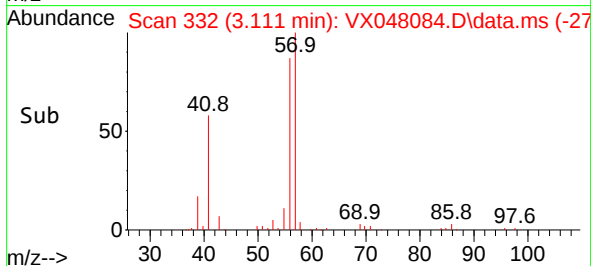
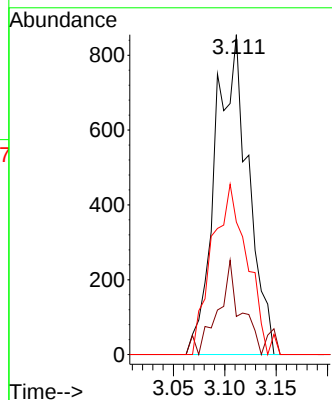
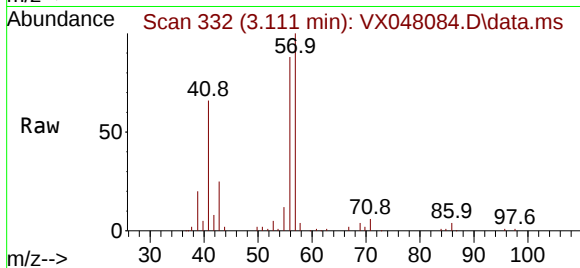
Tgt Ion: 53 Resp: 1912

Ion Ratio Lower Upper

53 100

52 20.7 66.4 99.6#

51 56.7 29.5 44.3#



#16

Acetone

Concen: 4.570 ug/l

RT: 2.349 min Scan# 207

Delta R.T. -0.024 min

Lab File: VX048084.D

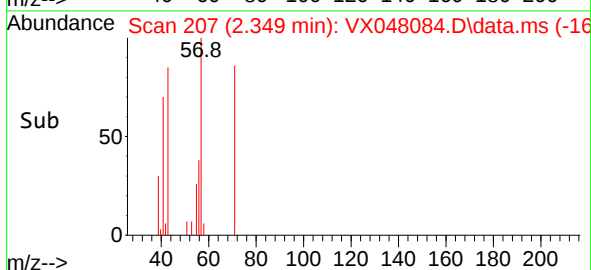
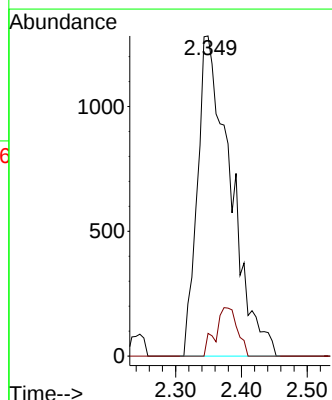
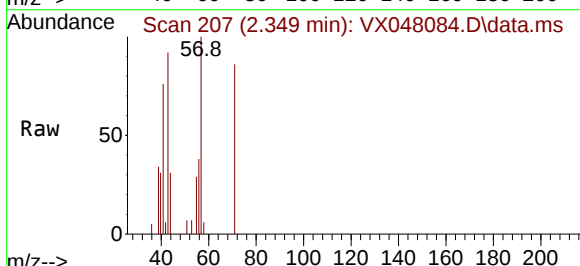
Acq: 09 Oct 2025 14:20

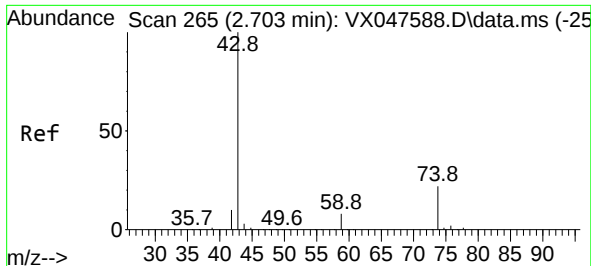
Tgt Ion: 43 Resp: 4474

Ion Ratio Lower Upper

43 100

58 7.1 23.4 35.0#

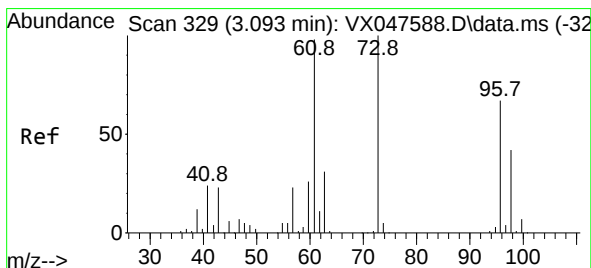
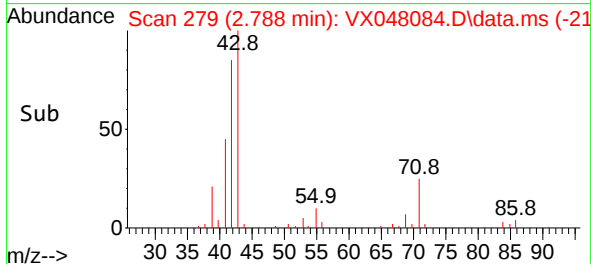
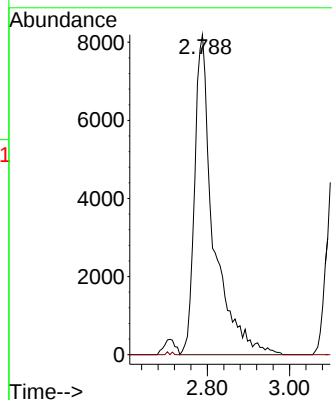
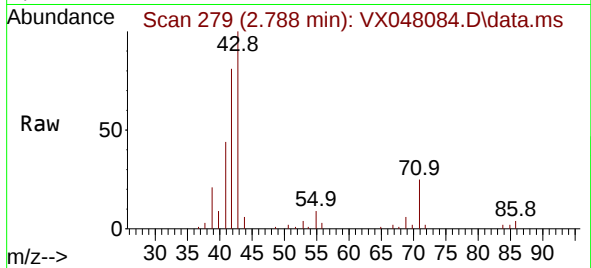




#18
Methyl Acetate
Concen: 11.978 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.085 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

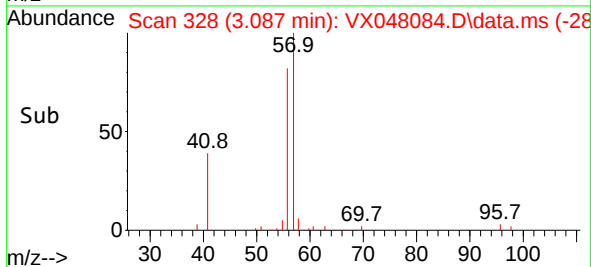
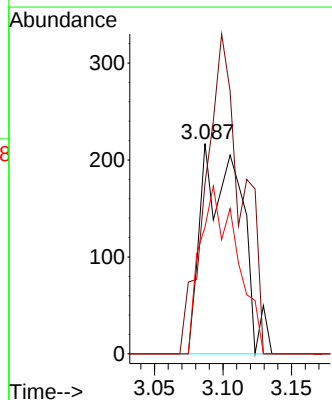
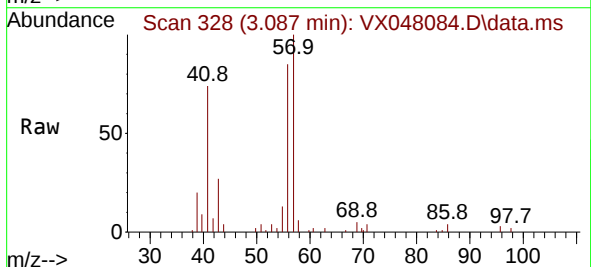
Instrument :
MSVOA_X
ClientSampleId :
MW-2S

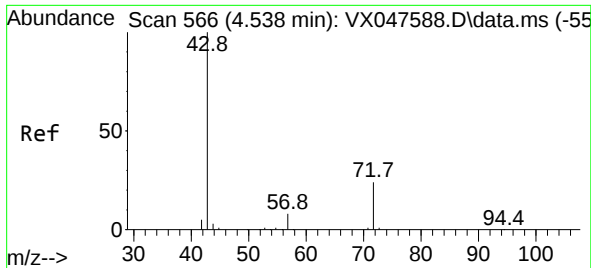
Tgt Ion: 43 Resp: 26098
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#



#21
trans-1,2-Dichloroethene
Concen: 0.241 ug/l
RT: 3.087 min Scan# 328
Delta R.T. -0.006 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Tgt Ion: 96 Resp: 436
Ion Ratio Lower Upper
96 100
61 81.1 116.2 174.2#
98 60.4 49.3 73.9

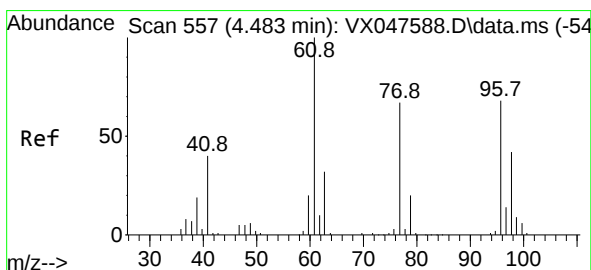
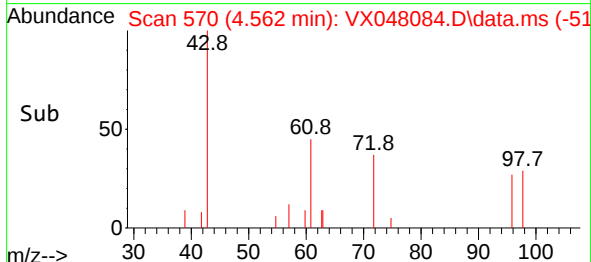
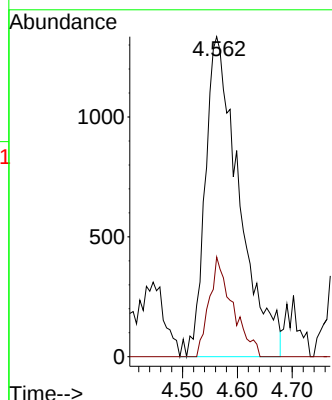
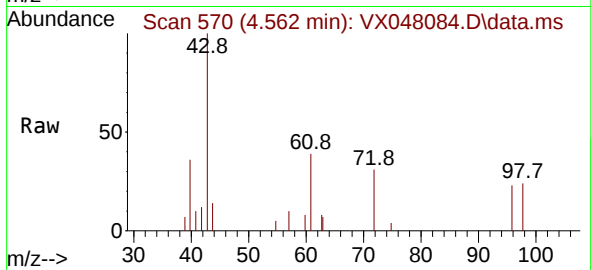




#25
2-Butanone
Concen: 4.714 ug/l
RT: 4.562 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

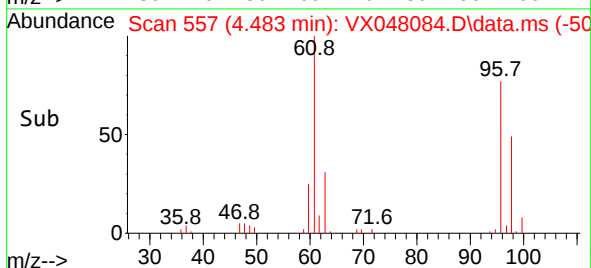
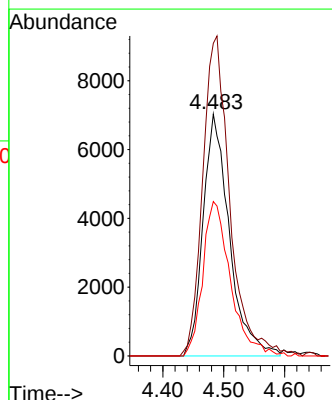
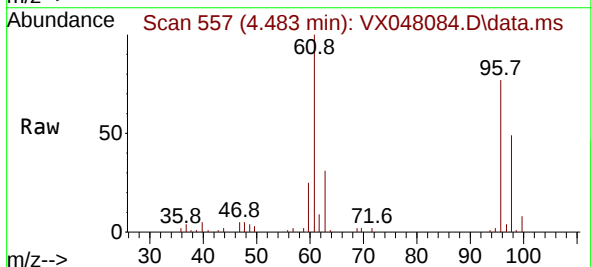
Instrument :
MSVOA_X
ClientSampleId :
MW-2S

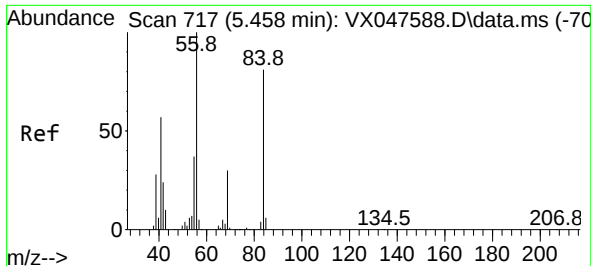
Tgt Ion: 43 Resp: 5757
Ion Ratio Lower Upper
43 100
72 27.4 20.1 30.1



#27
cis-1,2-Dichloroethene
Concen: 9.532 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Tgt Ion: 96 Resp: 21123
Ion Ratio Lower Upper
96 100
61 136.9 0.0 303.2
98 67.2 0.0 127.8

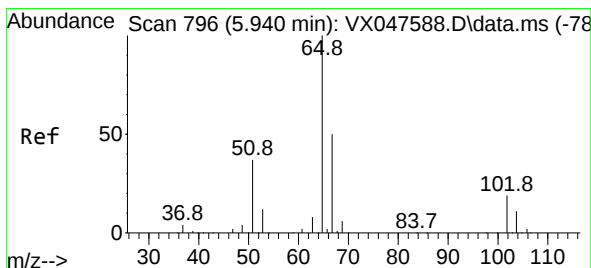
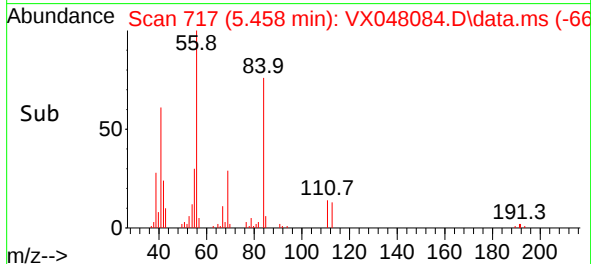
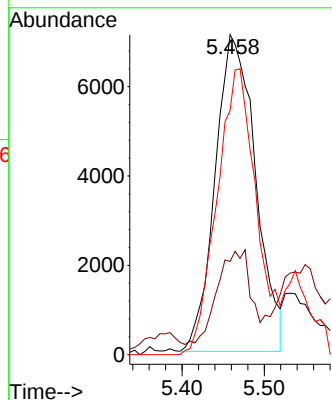
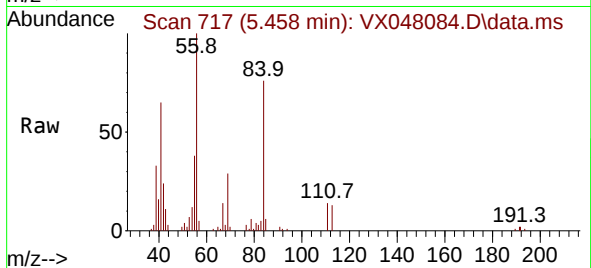




#31
Cyclohexane
Concen: 8.123 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.000 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

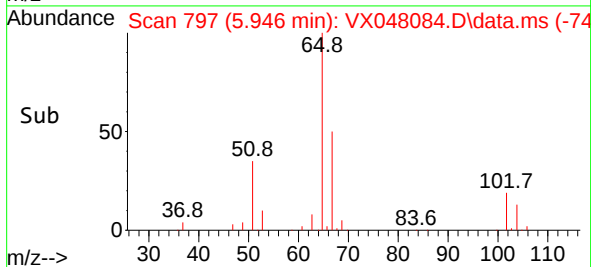
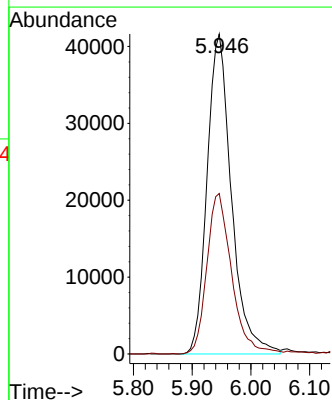
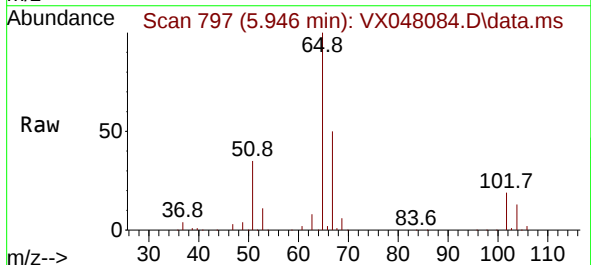
Instrument :
MSVOA_X
ClientSampleId :
MW-2S

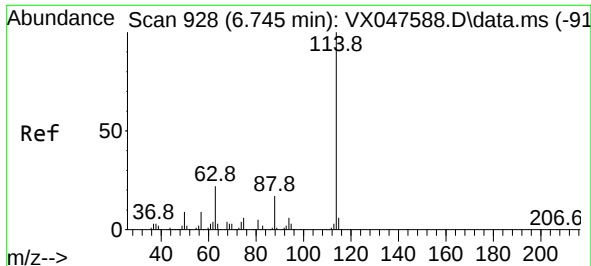
Tgt Ion:	56	Resp:	24169
Ion	Ratio	Lower	Upper
56	100		
69	25.6	23.8	35.8
84	77.2	64.6	97.0



#33
1,2-Dichloroethane-d4
Concen: 53.188 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Tgt Ion:	65	Resp:	119761
Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	103.0

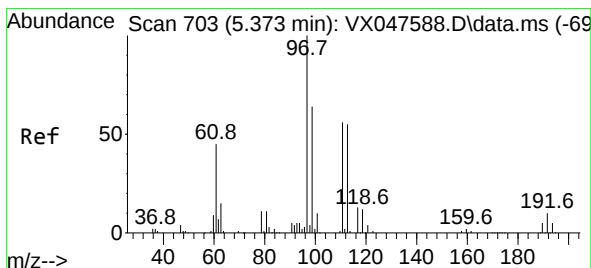
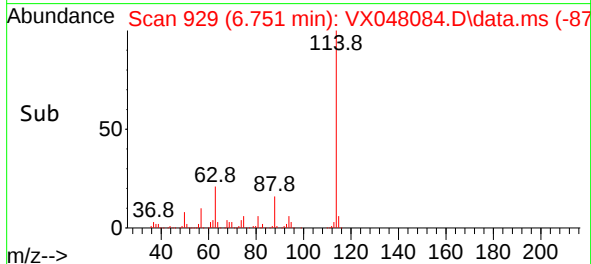
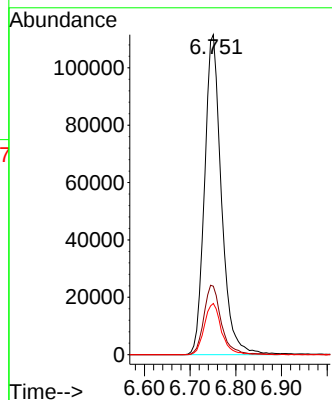
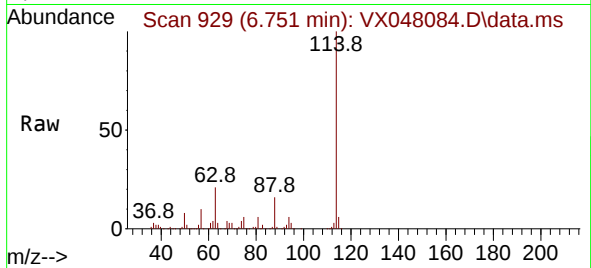




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

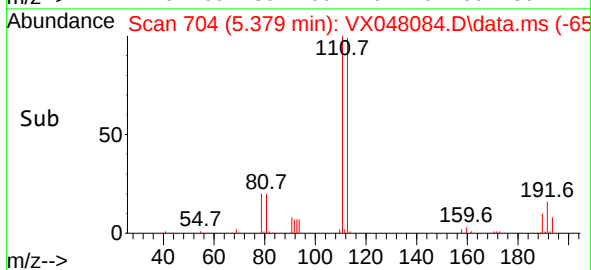
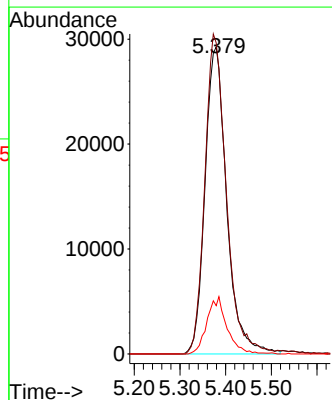
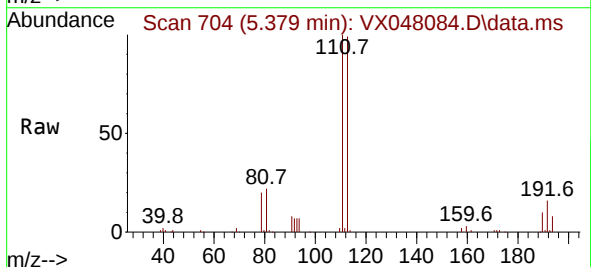
Instrument :
MSVOA_X
ClientSampleId :
MW-2S

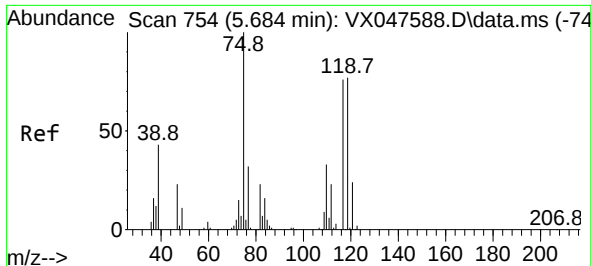
Tgt Ion:114 Resp: 285694
Ion Ratio Lower Upper
114 100
63 21.4 0.0 44.0
88 16.0 0.0 34.2



#35
Dibromofluoromethane
Concen: 50.306 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Tgt Ion:113 Resp: 96388
Ion Ratio Lower Upper
113 100
111 102.9 80.9 121.3
192 17.2 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.285 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX048084.D

Acq: 09 Oct 2025 14:20

Instrument :

MSVOA_X

ClientSampleId :

MW-2S

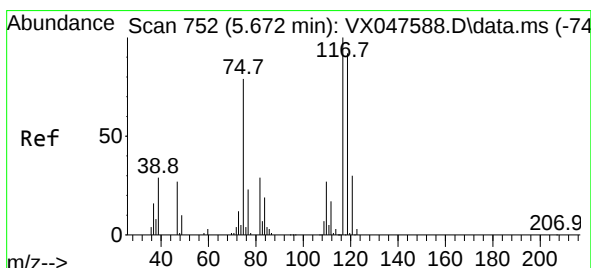
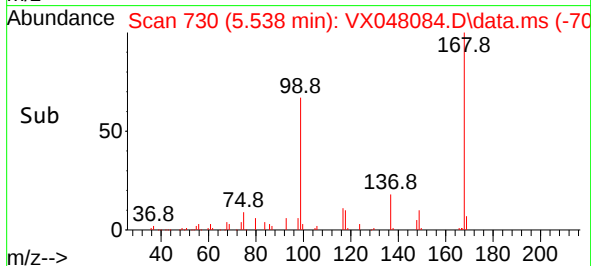
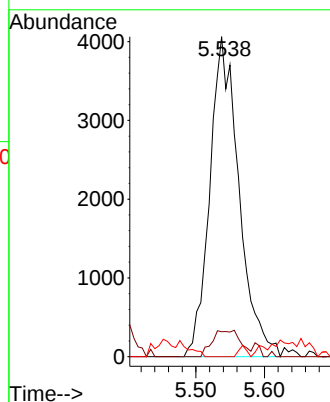
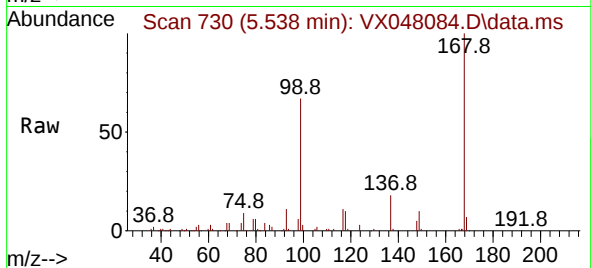
Tgt Ion: 75 Resp: 11997

Ion Ratio Lower Upper

75 100

110 0.0 16.7 50.1#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 5.015 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.128 min

Lab File: VX048084.D

Acq: 09 Oct 2025 14:20

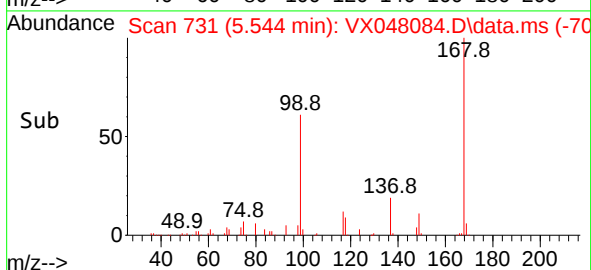
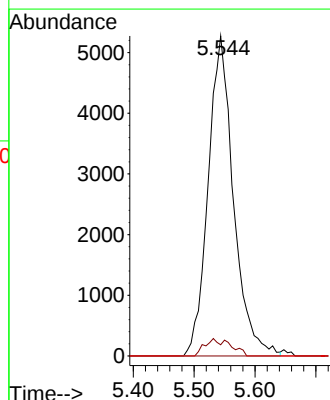
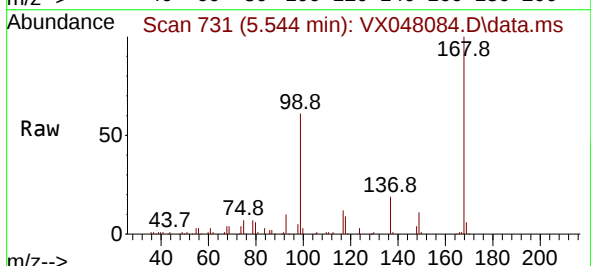
Tgt Ion: 117 Resp: 15257

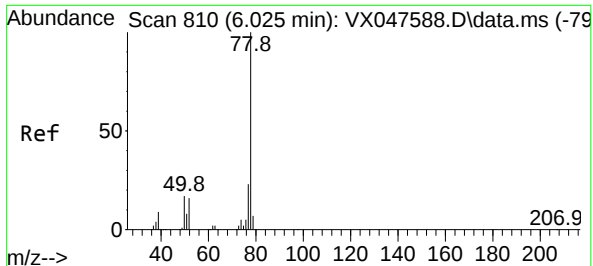
Ion Ratio Lower Upper

117 100

119 3.5 73.4 110.2#

121 0.0 23.8 35.6#





#40

Benzene

Concen: 0.756 ug/l

RT: 6.031 min Scan# 810

Delta R.T. 0.006 min

Lab File: VX048084.D

Acq: 09 Oct 2025 14:20

Instrument :

MSVOA_X

ClientSampleId :

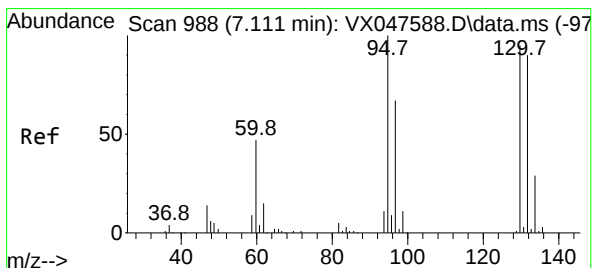
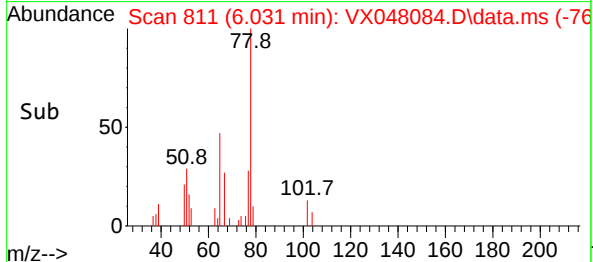
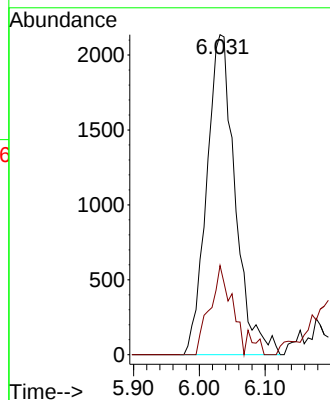
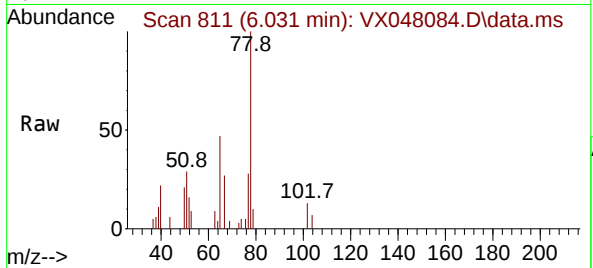
MW-2S

Tgt Ion: 78 Resp: 6425

Ion Ratio Lower Upper

78 100

77 27.9 18.8 28.2



#44

Trichloroethene

Concen: 6.437 ug/l

RT: 7.117 min Scan# 989

Delta R.T. 0.006 min

Lab File: VX048084.D

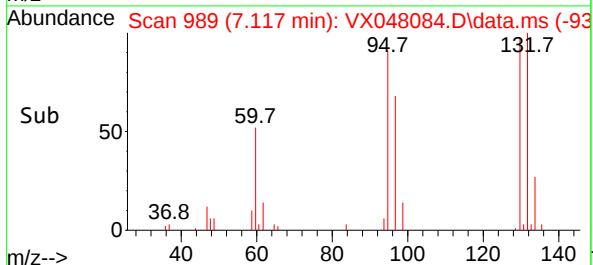
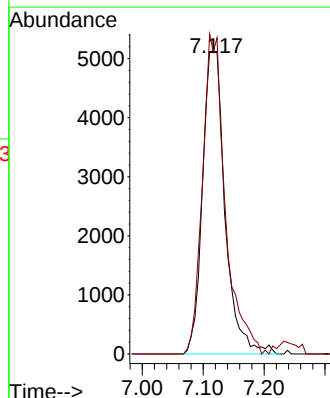
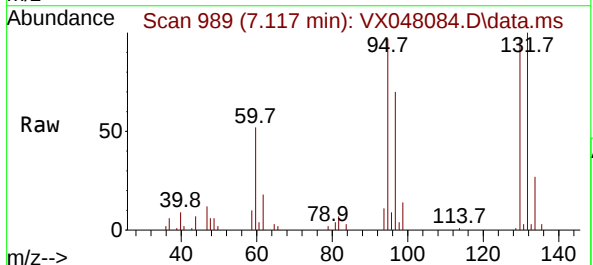
Acq: 09 Oct 2025 14:20

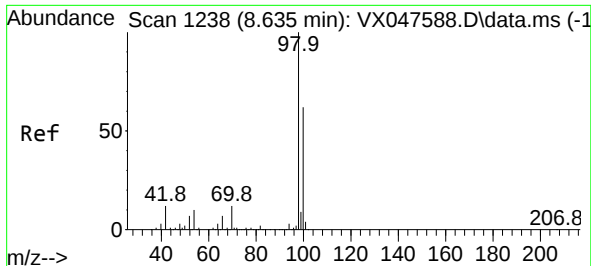
Tgt Ion:130 Resp: 13233

Ion Ratio Lower Upper

130 100

95 99.8 0.0 210.8

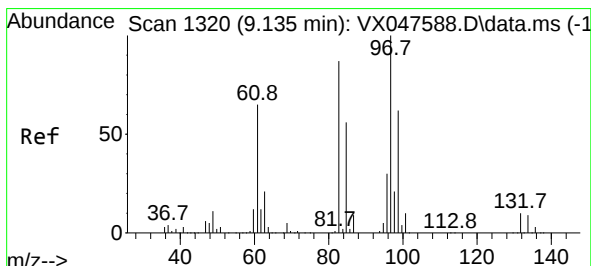
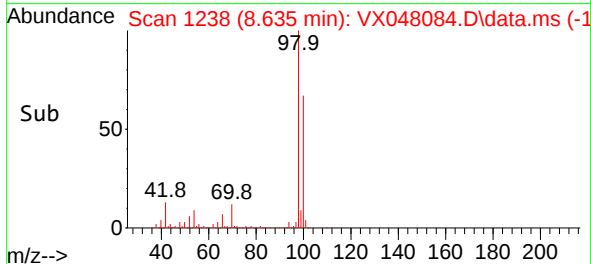
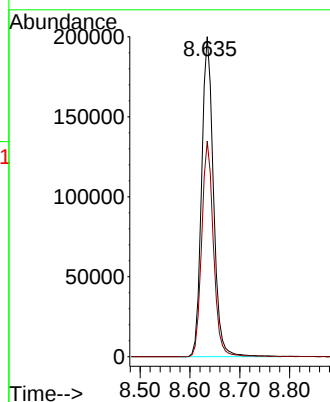
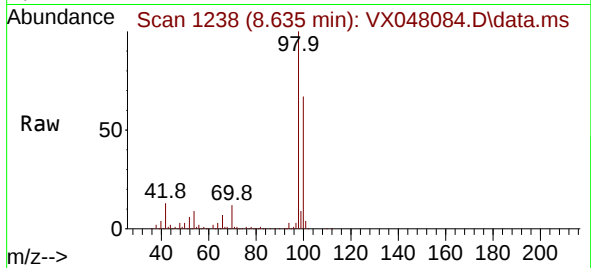




#50
Toluene-d8
Concen: 49.743 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

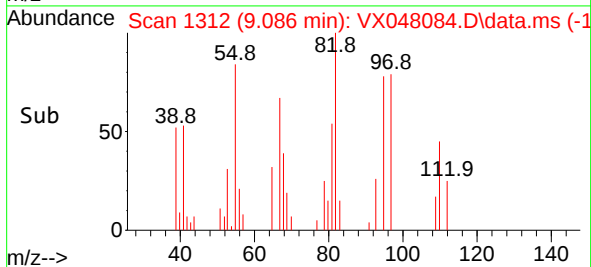
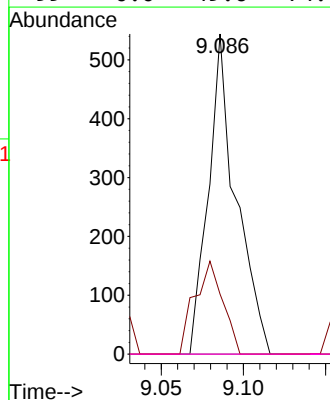
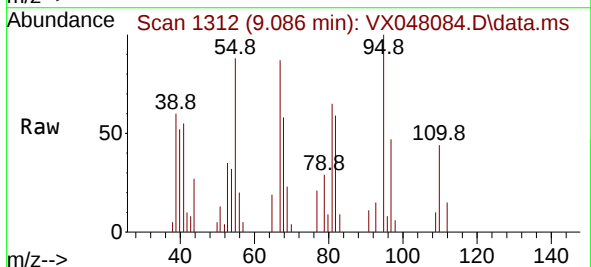
Instrument :
MSVOA_X
ClientSampleId :
MW-2S

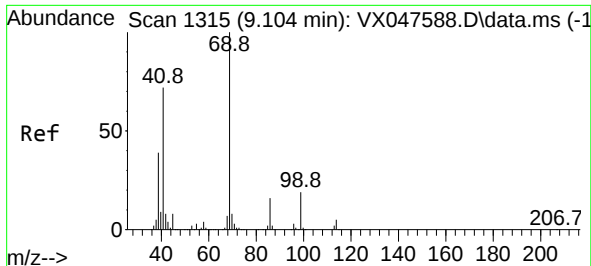
Tgt Ion: 98 Resp: 329788
Ion Ratio Lower Upper
98 100
100 66.8 53.0 79.4



#55
1,1,2-Trichloroethane
Concen: 0.315 ug/l
RT: 9.086 min Scan# 1312
Delta R.T. -0.049 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Tgt Ion: 97 Resp: 636
Ion Ratio Lower Upper
97 100
83 18.8 69.6 104.4#
85 0.0 45.0 67.6#
99 0.0 49.6 74.4#

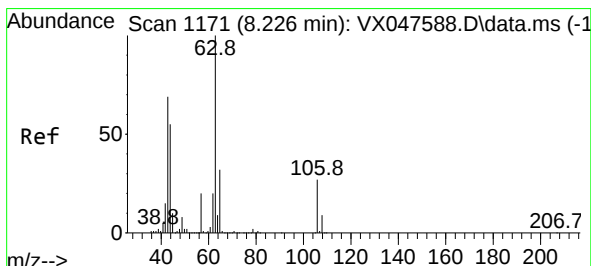
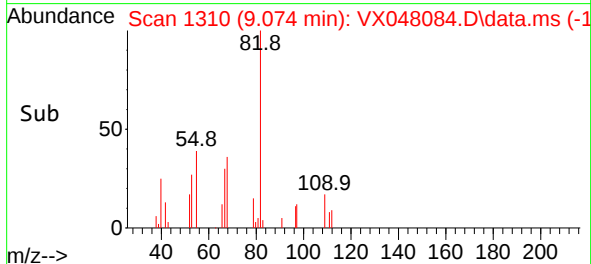
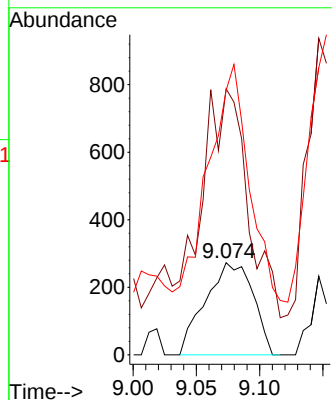
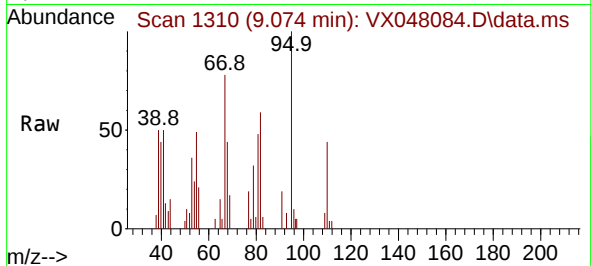




#56
Ethyl methacrylate
Concen: 0.226 ug/l
RT: 9.074 min Scan# 1154
Delta R.T. -0.031 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

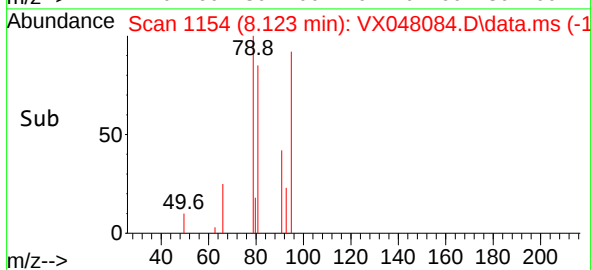
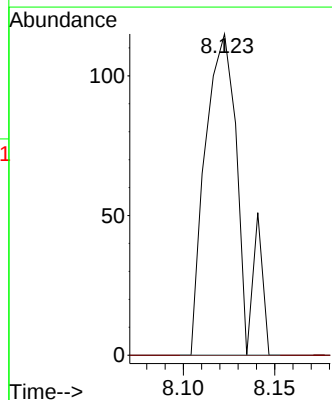
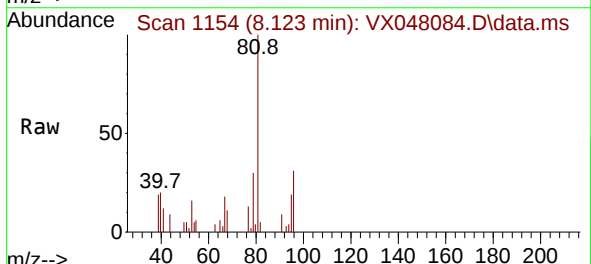
Instrument :
MSVOA_X
ClientSampleId :
MW-2S

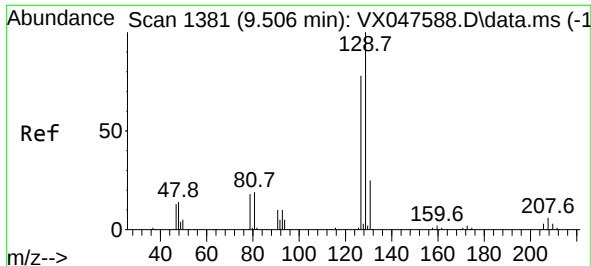
Tgt Ion: 69 Resp: 716
Ion Ratio Lower Upper
69 100
41 293.2 58.6 87.8#
39 336.7 31.5 47.3#



#58
2-Chloroethyl Vinyl ether
Concen: 7.992 ug/l
RT: 8.123 min Scan# 1154
Delta R.T. -0.104 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Tgt Ion: 63 Resp: 151
Ion Ratio Lower Upper
63 100
106 0.0 21.9 32.9#

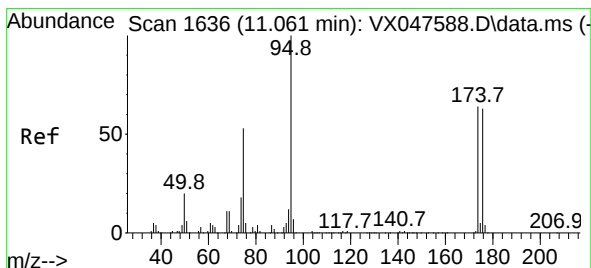
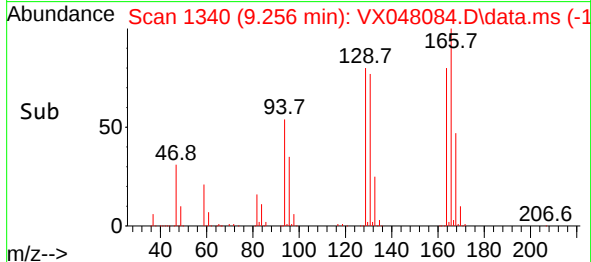
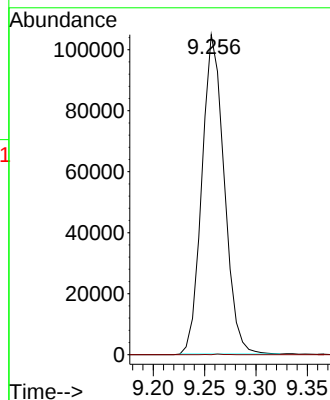
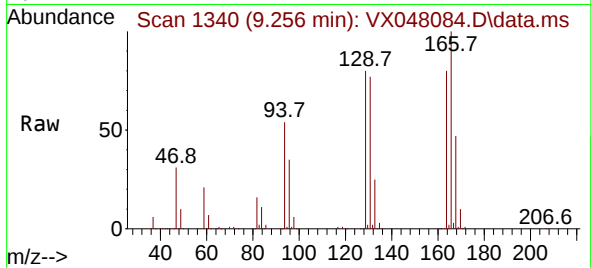




#60
Dibromochloromethane
Concen: 68.072 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

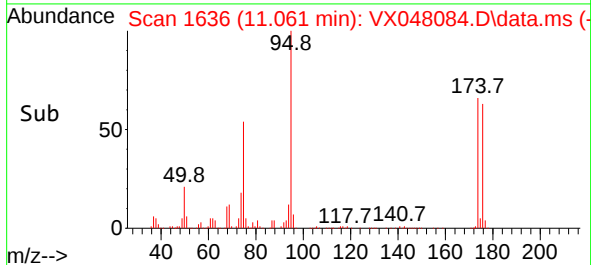
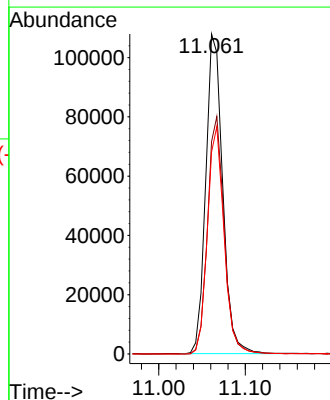
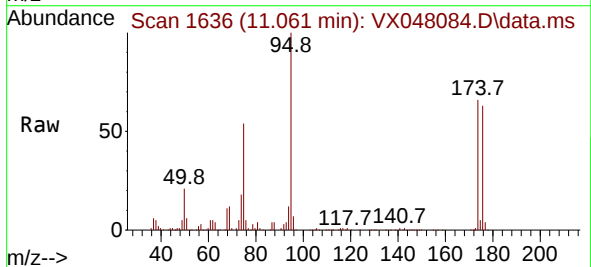
Instrument :
MSVOA_X
ClientSampleId :
MW-2S

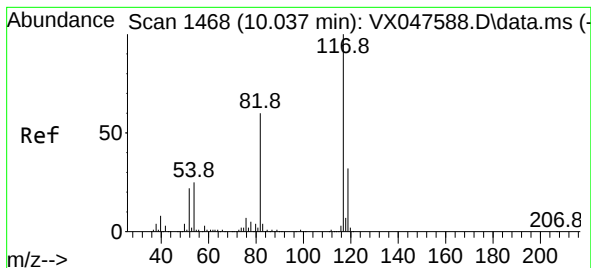
Tgt Ion:129 Resp: 158449
Ion Ratio Lower Upper
129 100
127 0.1 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 58.196 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Tgt Ion: 95 Resp: 146430
Ion Ratio Lower Upper
95 100
174 73.3 0.0 141.6
176 70.1 0.0 138.4

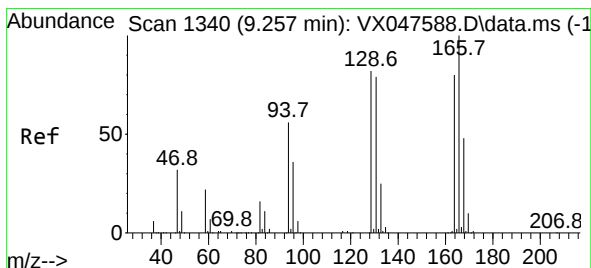
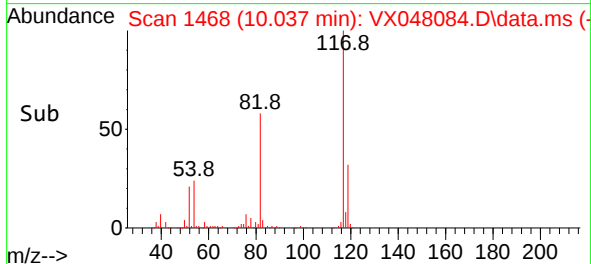
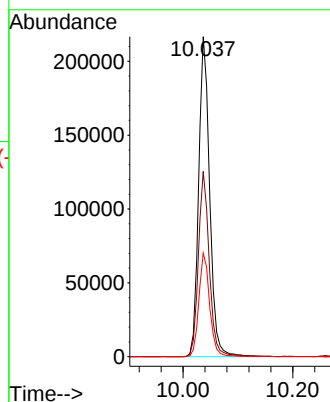
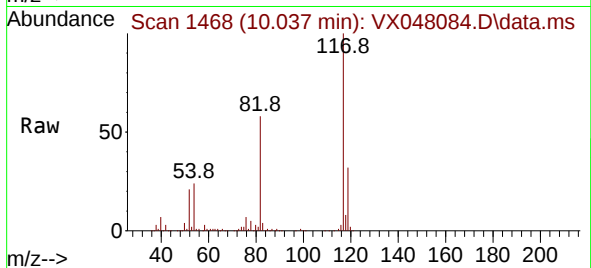




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

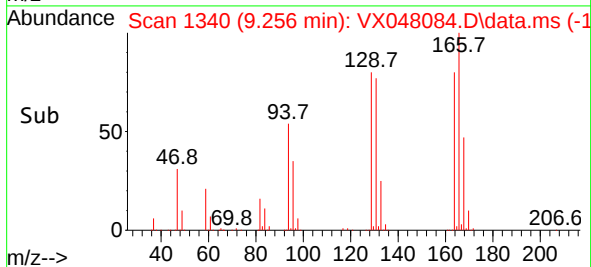
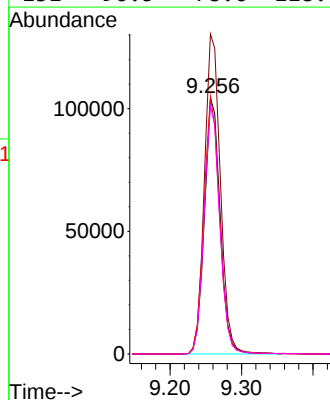
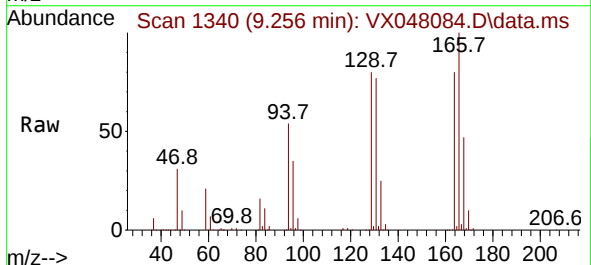
Instrument : MSVOA_X
ClientSampleId : MW-2S

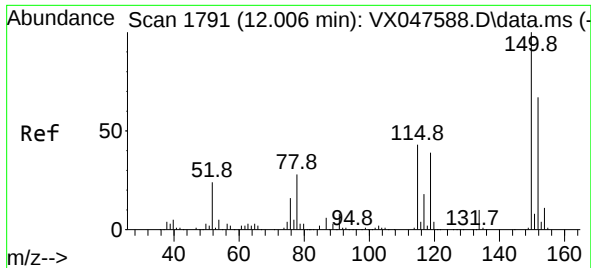
Tgt Ion:117 Resp: 303599
Ion Ratio Lower Upper
117 100
82 57.9 47.8 71.6
119 32.3 25.2 37.8



#64
Tetrachloroethene
Concen: 80.626 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Tgt Ion:164 Resp: 159570
Ion Ratio Lower Upper
164 100
166 124.8 100.2 150.2
129 100.4 81.8 122.6
131 96.5 78.6 118.0

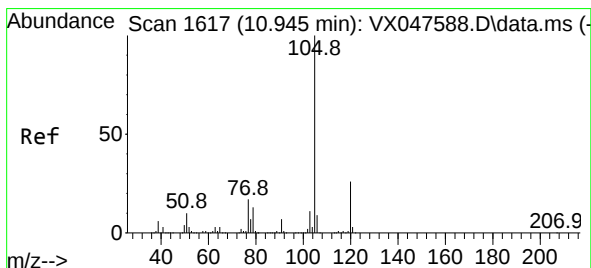
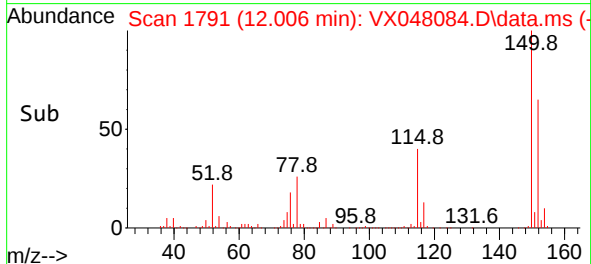
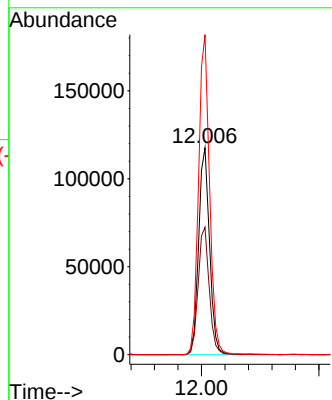
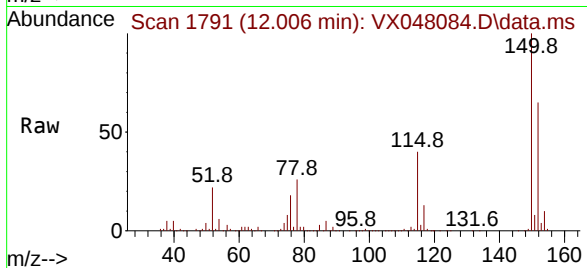




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

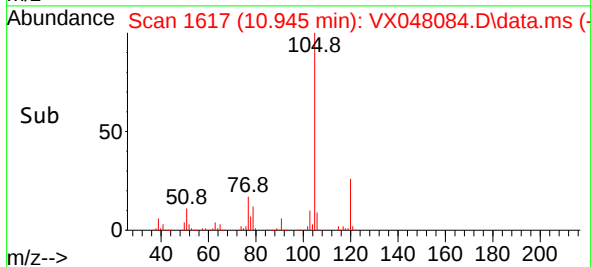
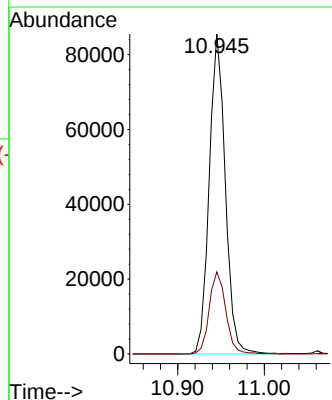
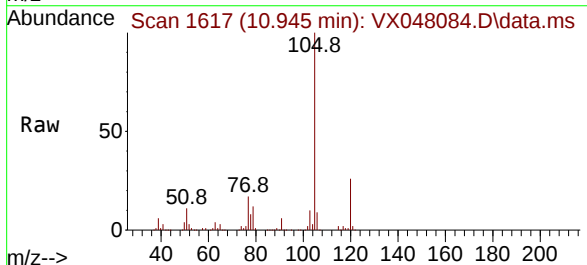
Instrument :
MSVOA_X
ClientSampleId :
MW-2S

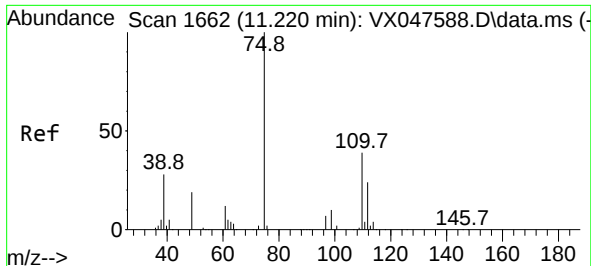
Tgt Ion:152 Resp: 152199
Ion Ratio Lower Upper
152 100
115 62.6 44.9 134.5
150 155.2 0.0 352.0



#73
Isopropylbenzene
Concen: 9.502 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Tgt Ion:105 Resp: 109954
Ion Ratio Lower Upper
105 100
120 26.5 12.8 38.4

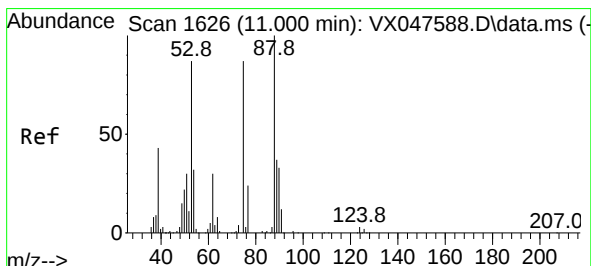
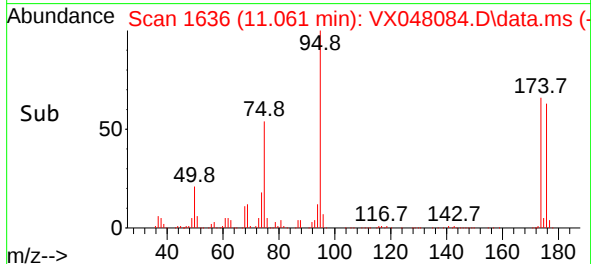
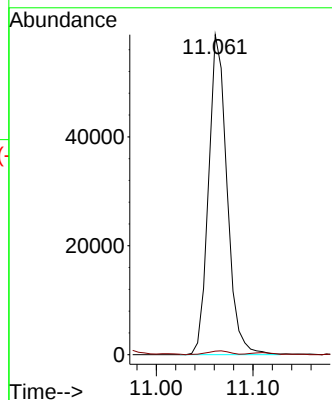
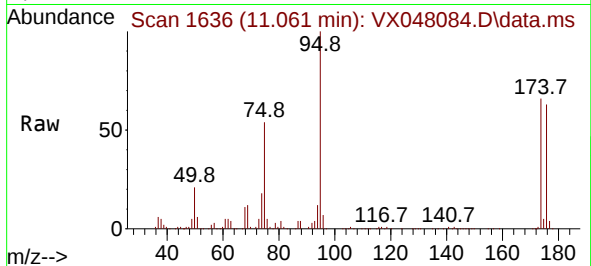




#76
1,2,3-Trichloropropane
Concen: 25.296 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

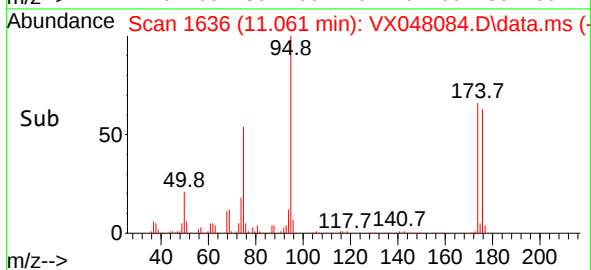
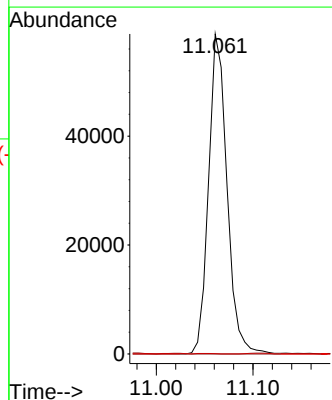
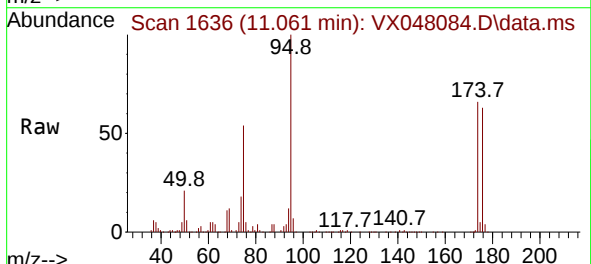
Instrument :
MSVOA_X
ClientSampleId :
MW-2S

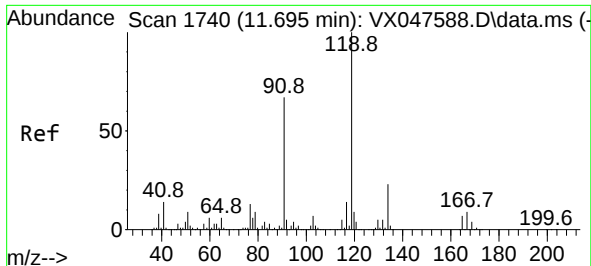
Tgt Ion: 75 Resp: 77950
Ion Ratio Lower Upper
75 100
77 1.4 18.8 56.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.508 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Tgt Ion: 75 Resp: 77950
Ion Ratio Lower Upper
75 100
53 0.2 83.4 125.2#
89 0.0 36.3 54.5#

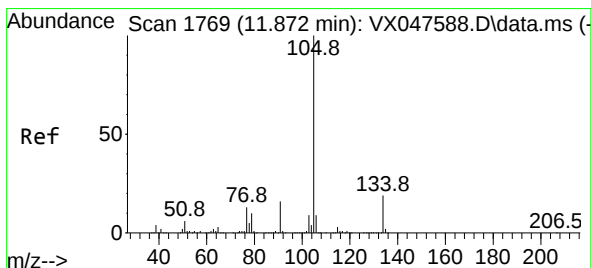
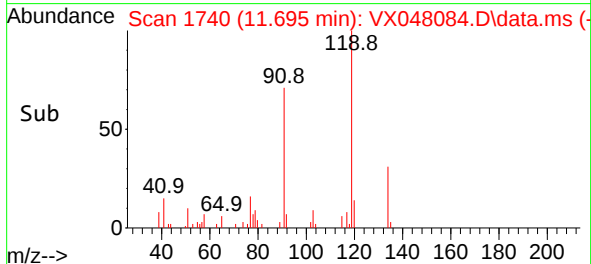
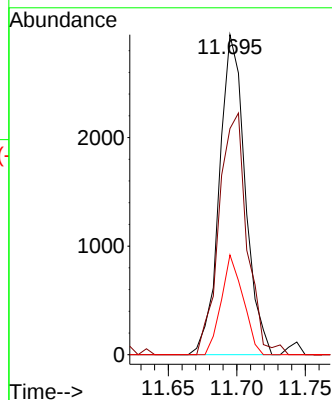
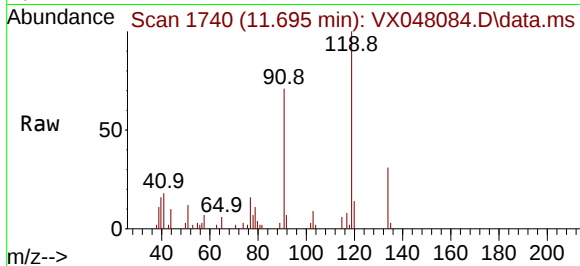




#83
tert-Butylbenzene
Concen: 0.396 ug/l
RT: 11.695 min Scan# 1740
Delta R.T. -0.000 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Instrument :
MSVOA_X
ClientSampleId :
MW-2S

Tgt Ion:119 Resp: 3850
Ion Ratio Lower Upper
119 100
91 82.2 29.6 88.8
134 26.4 11.0 33.0



#85
sec-Butylbenzene
Concen: 0.930 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX048084.D
Acq: 09 Oct 2025 14:20

Tgt Ion:105 Resp: 10747
Ion Ratio Lower Upper
105 100
134 19.1 9.8 29.5

