

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046877.D
 Acq On : 03 Jul 2025 11:25
 Operator : JC/MD
 Sample : Q2455-02 500X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW3

Quant Time: Jul 04 01:29:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

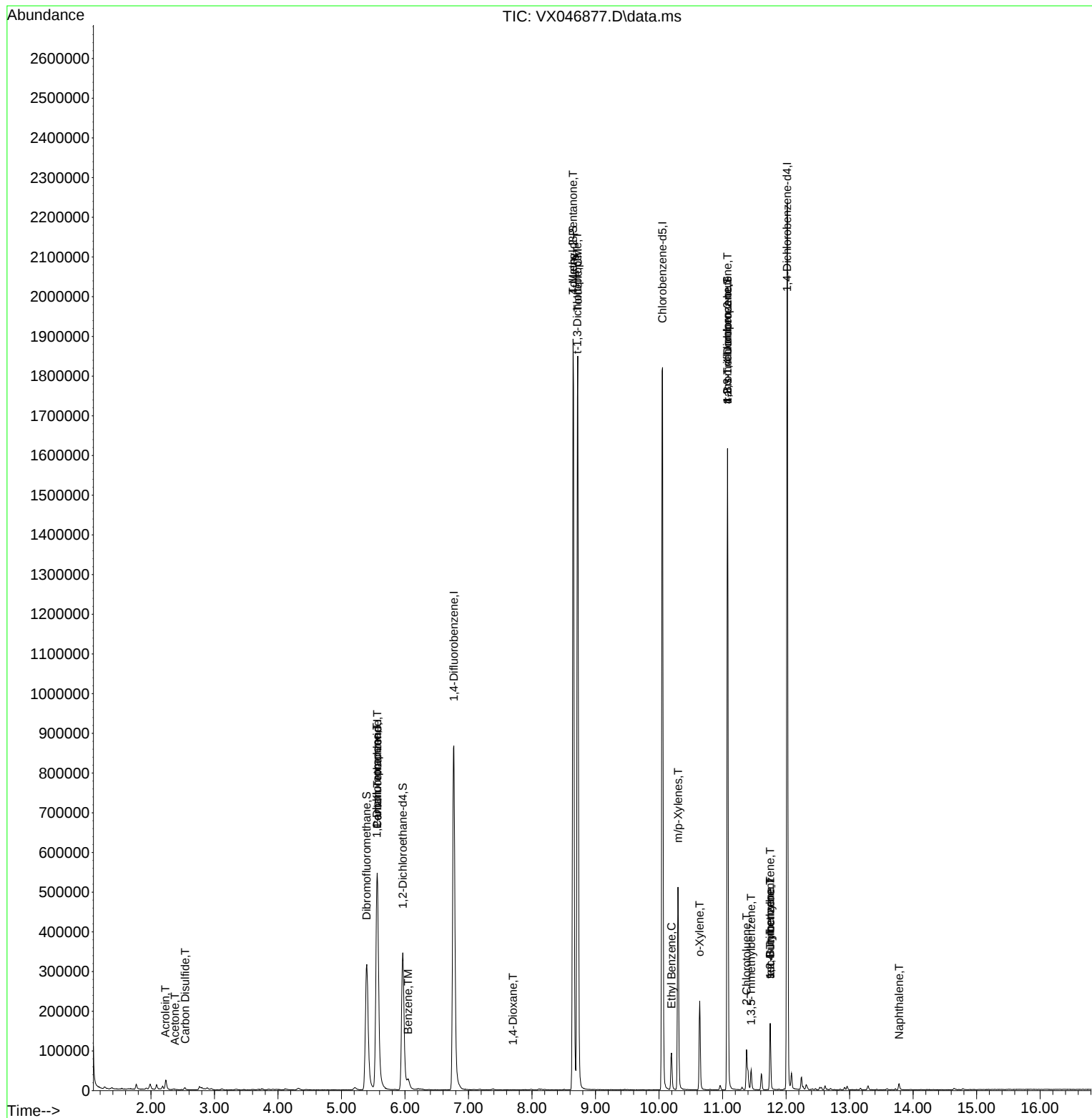
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	569856	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	963880	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	868363	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	447320	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	358094	47.566	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	95.140%
35) Dibromofluoromethane	5.397	113	304334	46.514	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.020%
50) Toluene-d8	8.647	98	1139829	49.376	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	98.760%
62) 4-Bromofluorobenzene	11.079	95	439767	50.125	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	100.240%
Target Compounds						
					Qvalue	
13) Acrolein	2.227	56	847	4.370	ug/l #	1
16) Acetone	2.380	43	1172	0.501	ug/l #	58
17) Carbon Disulfide	2.538	76	7014	0.433	ug/l #	94
36) 1,1-Dichloropropene	5.556	75	44372	5.026	ug/l #	50
38) Carbon Tetrachloride	5.562	117	55992	5.999	ug/l #	16
40) Benzene	6.050	78	27880	1.044	ug/l	91
49) 1,4-Dioxane	7.702	88	60	0.871	ug/l #	1
51) 4-Methyl-2-Pentanone	8.647	43	5314	0.782	ug/l #	1
52) Toluene	8.720	92	725572	43.852	ug/l	98
53) t-1,3-Dichloropropene	8.714	75	8656	0.972	ug/l #	1
67) Ethyl Benzene	10.195	91	57585	1.791	ug/l	97
68) m/p-Xylenes	10.299	106	120010	9.906	ug/l	99
69) o-Xylene	10.640	106	48832	4.173	ug/l	97
76) 1,2,3-Trichloropropane	11.079	75	222954	32.257	ug/l #	37
79) 2-Chlorotoluene	11.378	91	8845	0.395	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.451	105	24025	0.940	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.079	75	222954	86.563	ug/l #	8
83) tert-Butylbenzene	11.750	119	9173	0.348	ug/l #	61
84) 1,2,4-Trimethylbenzene	11.750	105	73871	2.860	ug/l	99
85) sec-Butylbenzene	11.750	105	73871	2.220	ug/l #	57
95) Naphthalene	13.780	128	12263	0.483	ug/l	98

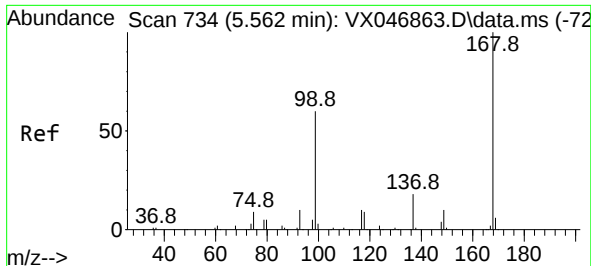
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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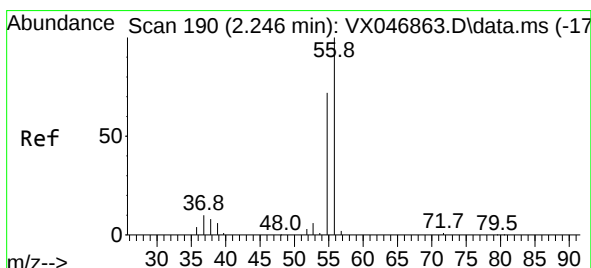
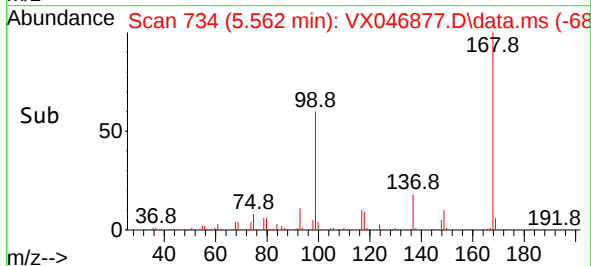
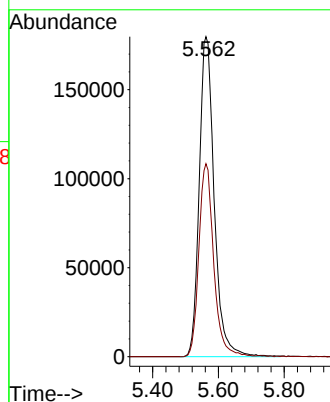
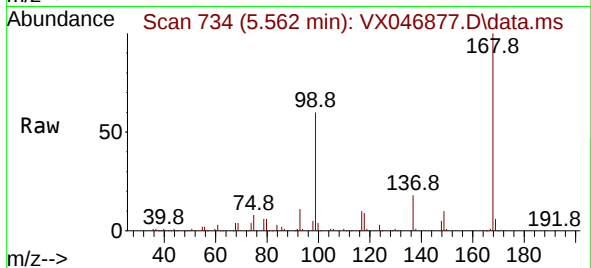




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

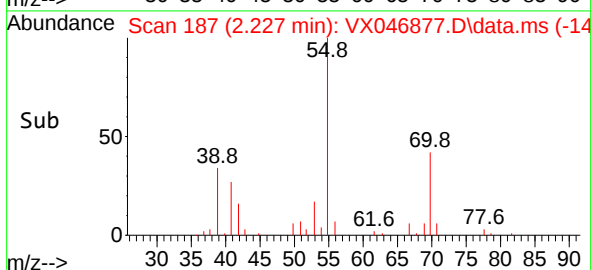
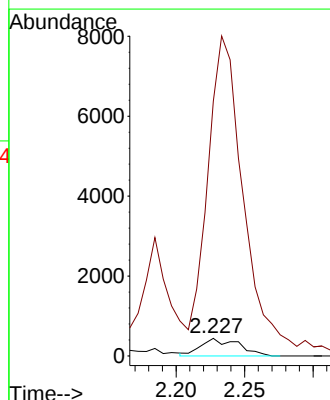
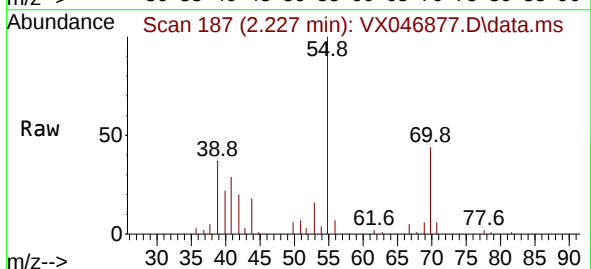
Instrument :
MSVOA_X
ClientSampleId :
MW3

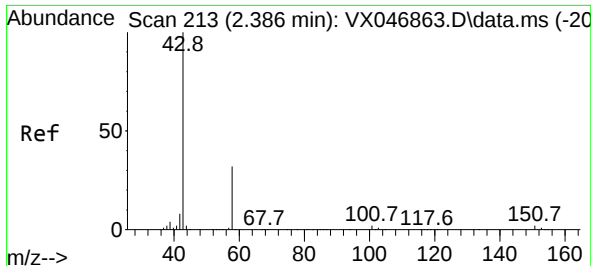
Tgt Ion:168 Resp: 569856
Ion Ratio Lower Upper
168 100
99 60.3 48.8 73.2



#13
Acrolein
Concen: 4.370 ug/l
RT: 2.227 min Scan# 187
Delta R.T. -0.019 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

Tgt Ion: 56 Resp: 847
Ion Ratio Lower Upper
56 100
55 1749.0 55.5 83.3#

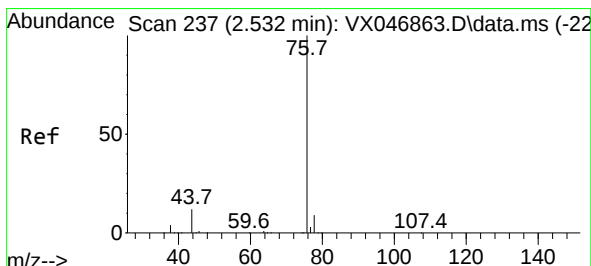
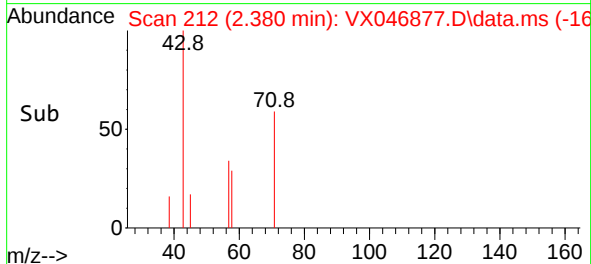
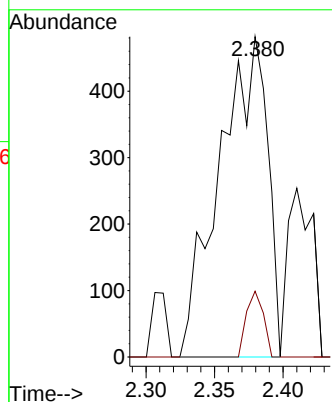
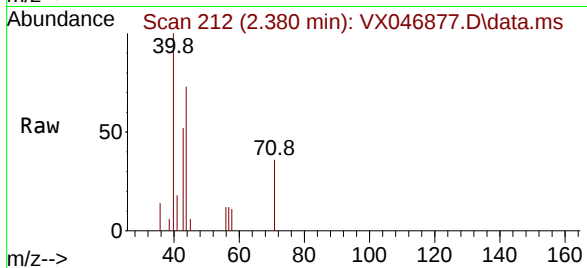




#16
Acetone
Concen: 0.501 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

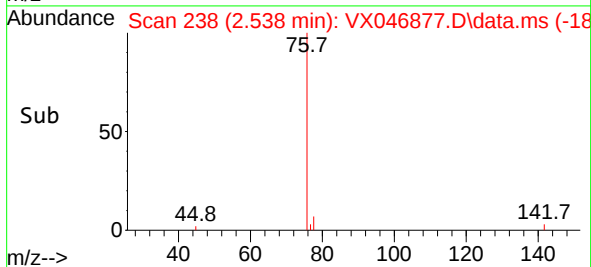
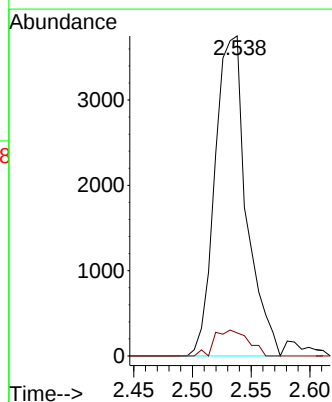
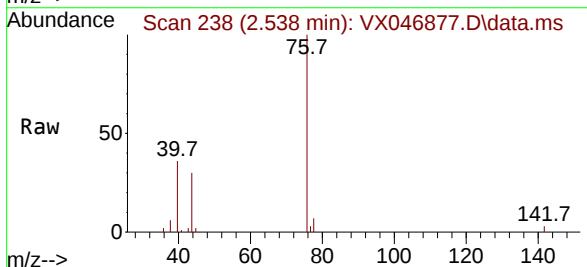
Instrument :
MSVOA_X
ClientSampleId :
MW3

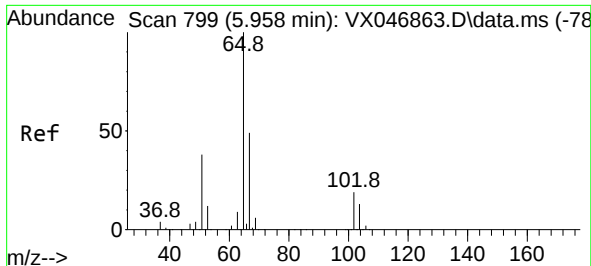
Tgt Ion: 43 Resp: 1172
Ion Ratio Lower Upper
43 100
58 8.6 25.8 38.6#



#17
Carbon Disulfide
Concen: 0.433 ug/l
RT: 2.538 min Scan# 238
Delta R.T. 0.006 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

Tgt Ion: 76 Resp: 7014
Ion Ratio Lower Upper
76 100
78 7.2 7.4 11.2#





#33

1,2-Dichloroethane-d4

Concen: 47.566 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.006 min

Lab File: VX046877.D

Acq: 03 Jul 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

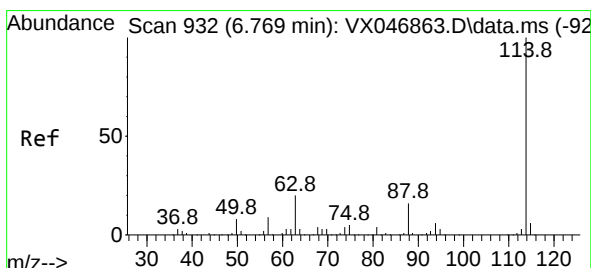
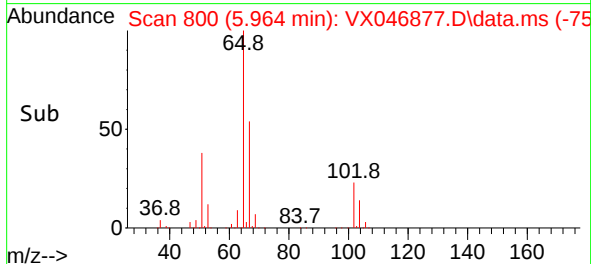
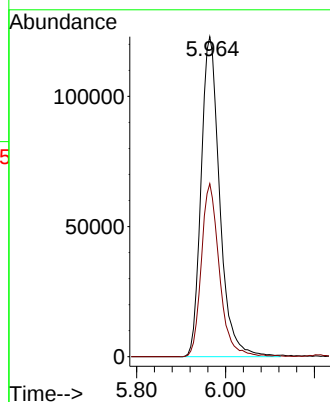
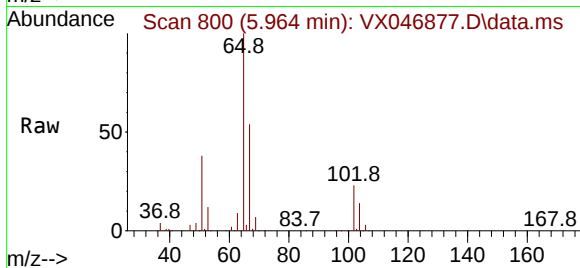
MW3

Tgt Ion: 65 Resp: 358094

Ion Ratio Lower Upper

65 100

67 52.6 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.000 min

Lab File: VX046877.D

Acq: 03 Jul 2025 11:25

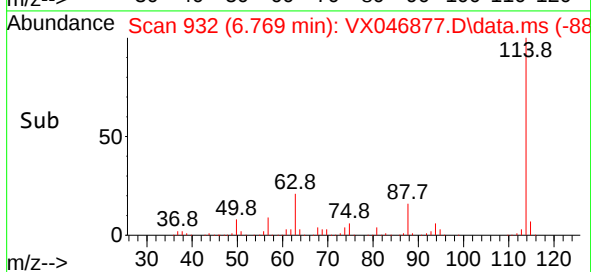
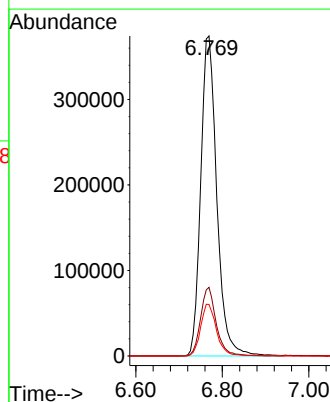
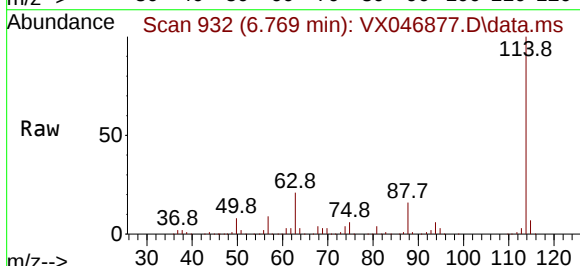
Tgt Ion: 114 Resp: 963880

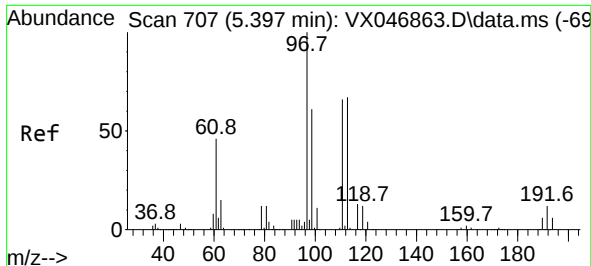
Ion Ratio Lower Upper

114 100

63 21.5 0.0 40.4

88 16.1 0.0 31.0





#35

Dibromofluoromethane

Concen: 46.514 ug/l

RT: 5.397 min Scan# 707

Delta R.T. -0.000 min

Lab File: VX046877.D

Acq: 03 Jul 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

MW3

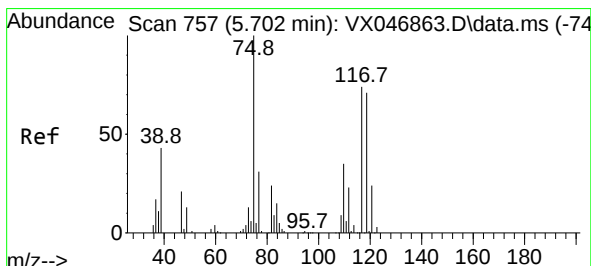
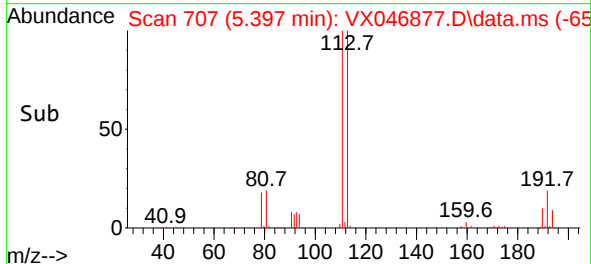
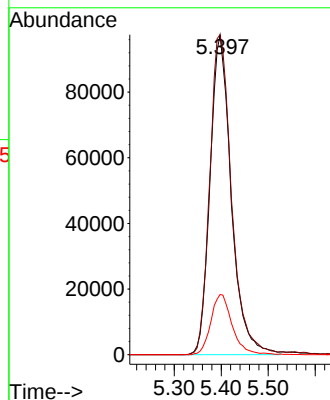
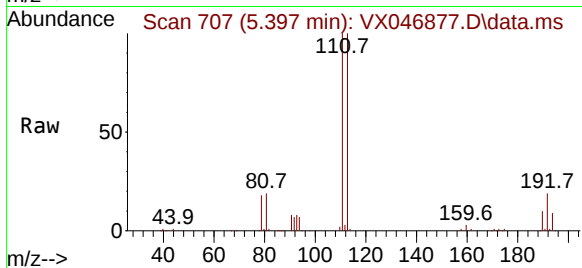
Tgt Ion:113 Resp: 304334

Ion Ratio Lower Upper

113 100

111 103.4 81.2 121.8

192 19.0 15.3 22.9



#36

1,1-Dichloropropene

Concen: 5.026 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.146 min

Lab File: VX046877.D

Acq: 03 Jul 2025 11:25

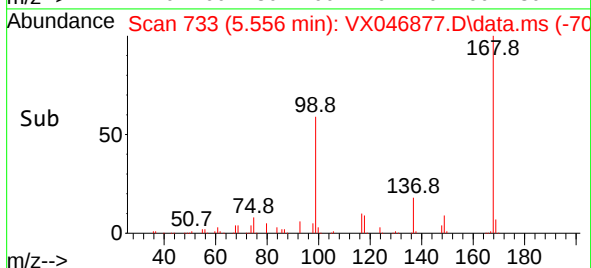
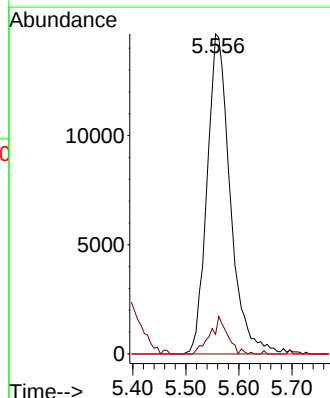
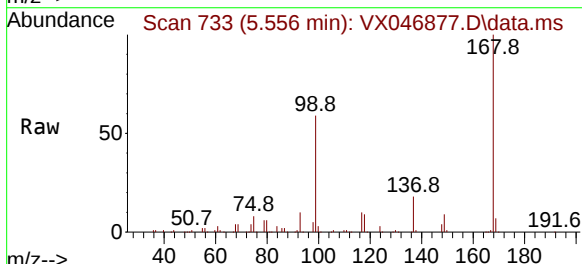
Tgt Ion: 75 Resp: 44372

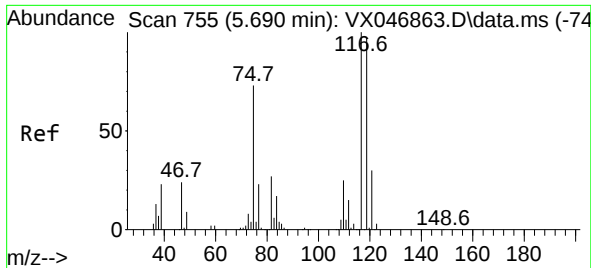
Ion Ratio Lower Upper

75 100

110 8.8 17.3 51.9#

77 0.0 24.2 36.4#

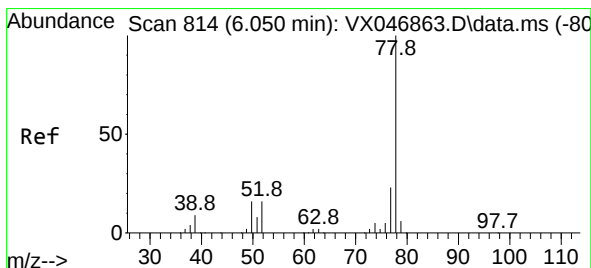
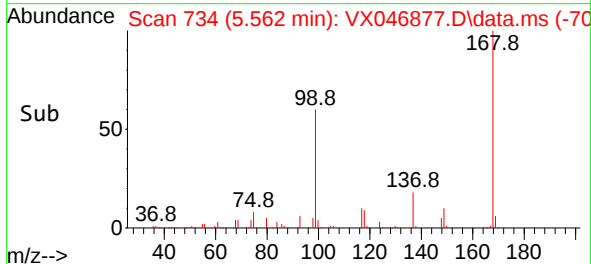
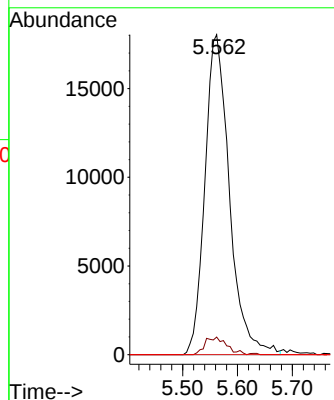
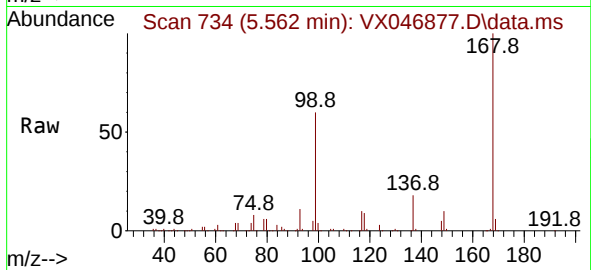




#38
Carbon Tetrachloride
Concen: 5.999 ug/l
RT: 5.562 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

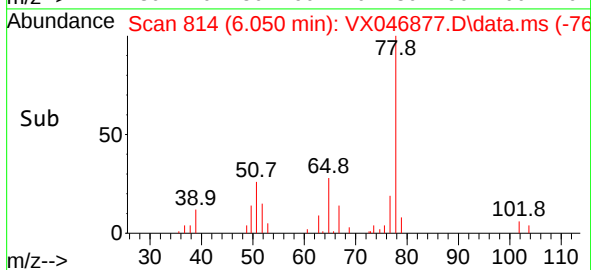
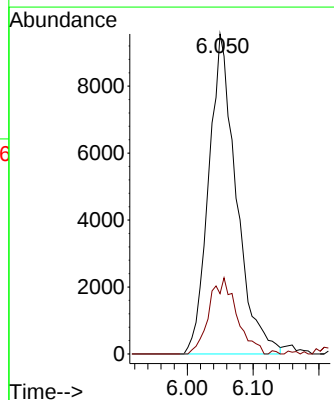
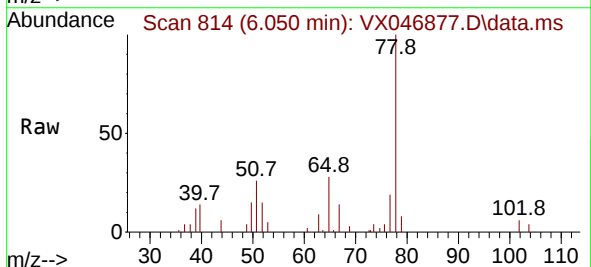
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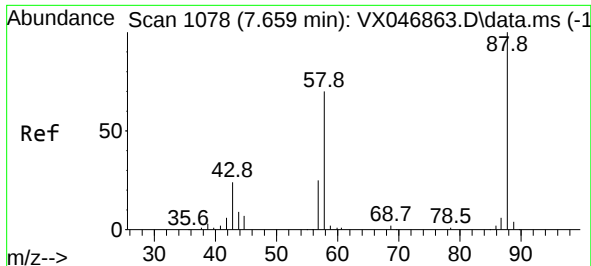
Tgt Ion:117 Resp: 55992
Ion Ratio Lower Upper
117 100
119 5.5 76.6 114.8#
121 0.0 24.1 36.1#



#40
Benzene
Concen: 1.044 ug/l
RT: 6.050 min Scan# 814
Delta R.T. -0.000 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

Tgt Ion: 78 Resp: 27880
Ion Ratio Lower Upper
78 100
77 18.8 18.7 28.1





#49

1,4-Dioxane

Concen: 0.871 ug/l

RT: 7.702 min Scan# 1085

Delta R.T. 0.043 min

Lab File: VX046877.D

Acq: 03 Jul 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

MW3

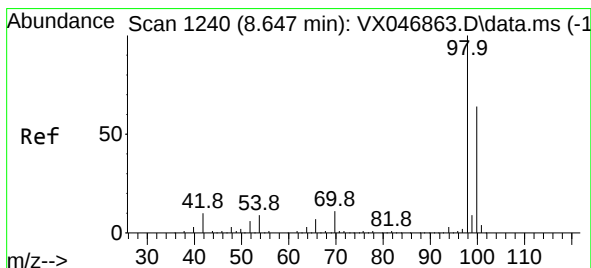
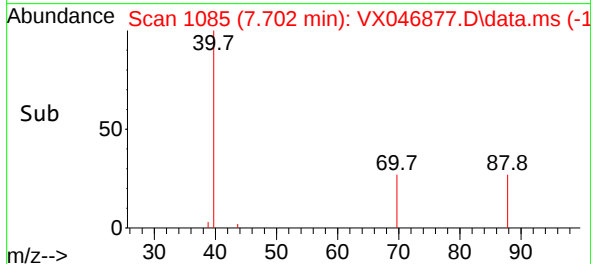
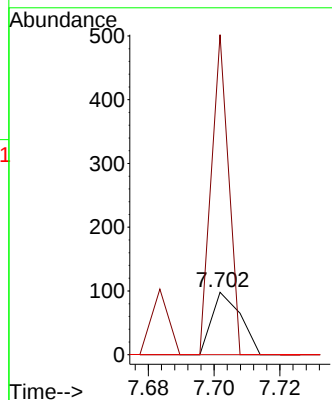
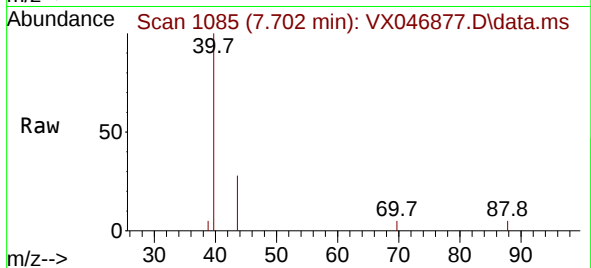
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 368.3 31.7 47.5#

58 0.0 57.5 86.3#



#50

Toluene-d8

Concen: 49.376 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX046877.D

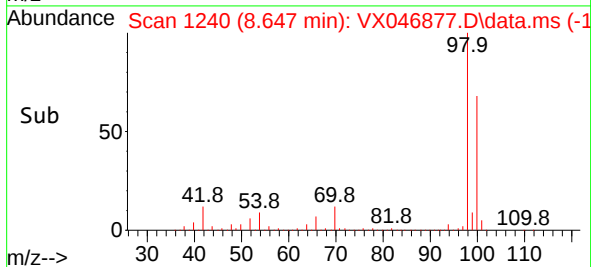
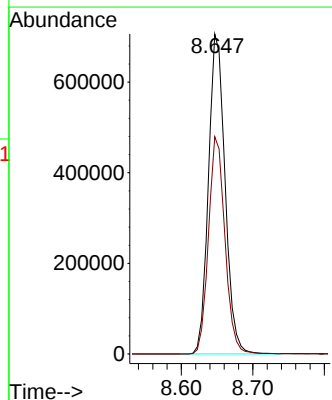
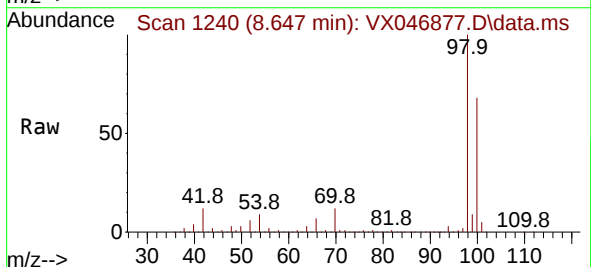
Acq: 03 Jul 2025 11:25

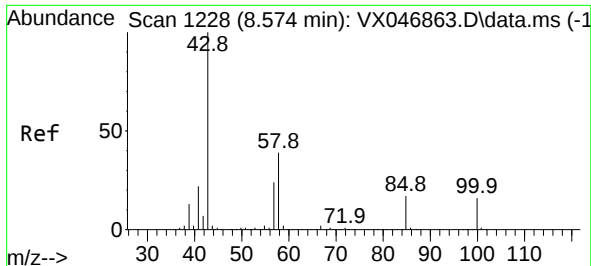
Tgt Ion: 98 Resp: 1139829

Ion Ratio Lower Upper

98 100

100 67.4 53.0 79.6





#51

4-Methyl-2-Pentanone

Concen: 0.782 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.073 min

Lab File: VX046877.D

Acq: 03 Jul 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

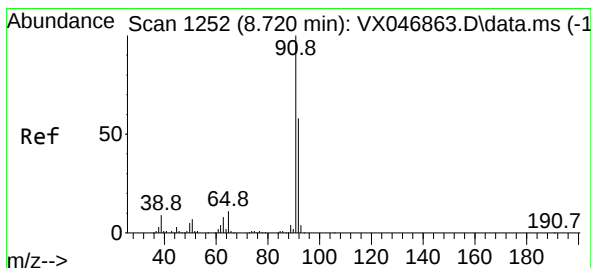
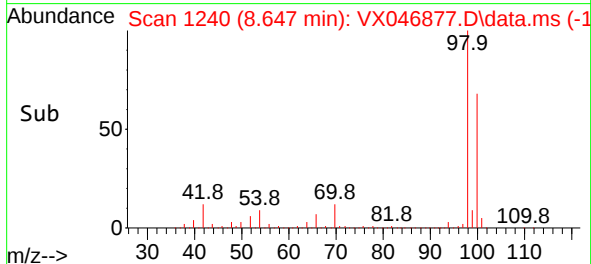
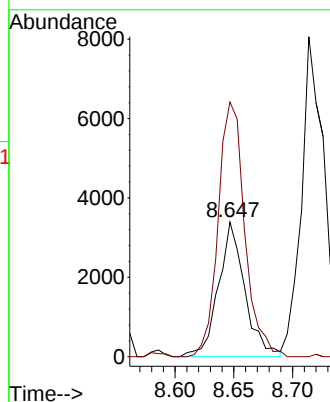
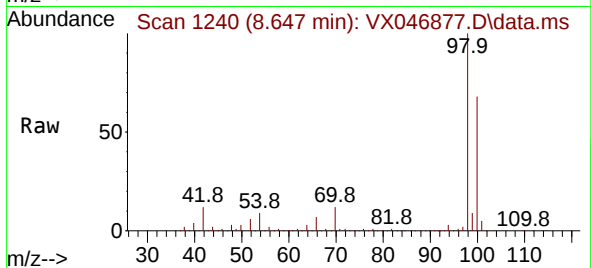
MW3

Tgt Ion: 43 Resp: 5314

Ion Ratio Lower Upper

43 100

58 190.1 30.4 45.6#



#52

Toluene

Concen: 43.852 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. -0.000 min

Lab File: VX046877.D

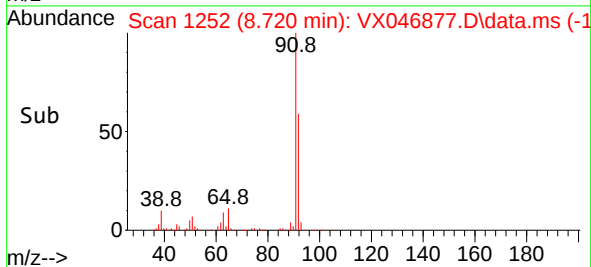
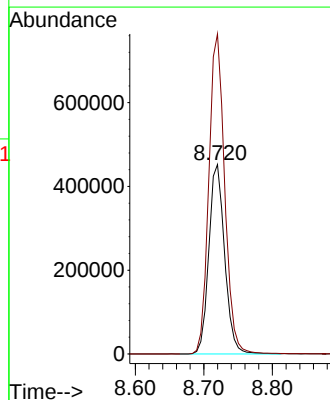
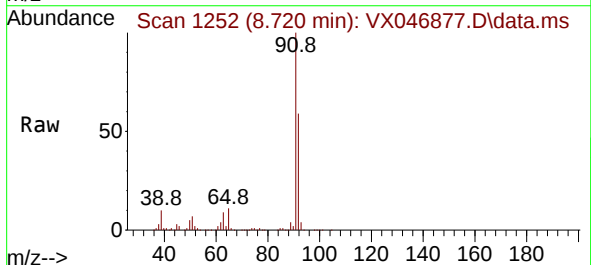
Acq: 03 Jul 2025 11:25

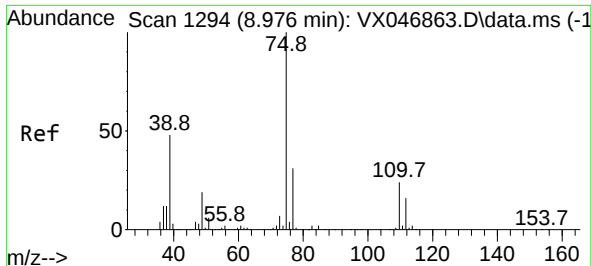
Tgt Ion: 92 Resp: 725572

Ion Ratio Lower Upper

92 100

91 169.6 137.9 206.9

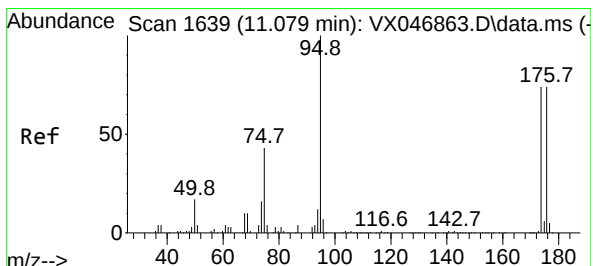
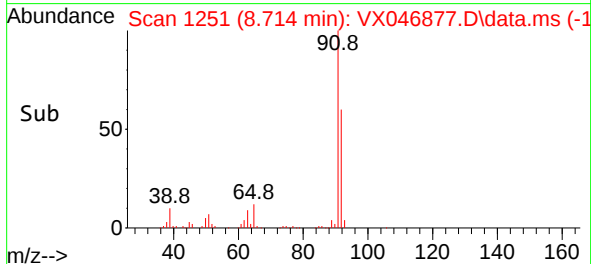
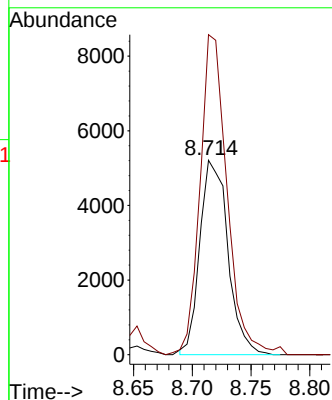
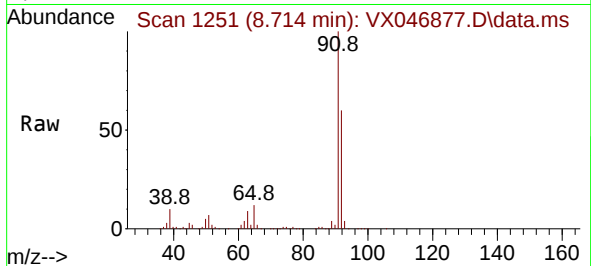




#53
t-1,3-Dichloropropene
Concen: 0.972 ug/l
RT: 8.714 min Scan# 11
Delta R.T. -0.262 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

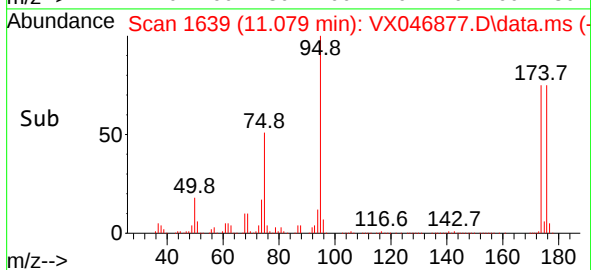
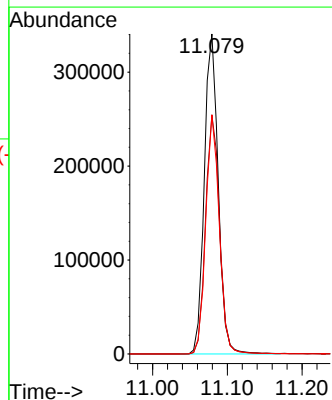
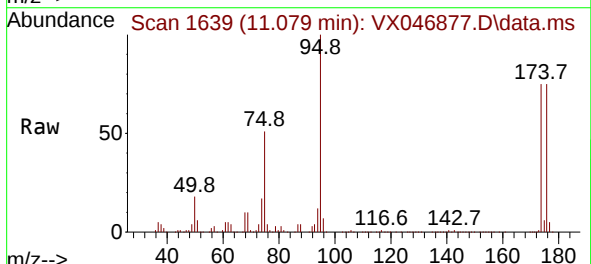
Instrument :
MSVOA_X
ClientSampleId :
MW3

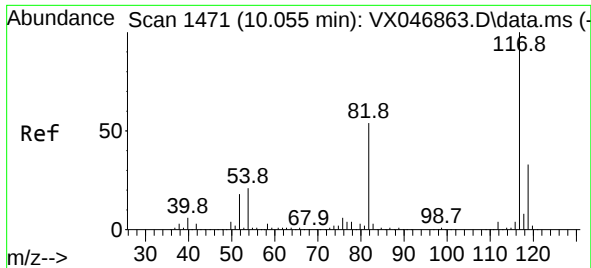
Tgt Ion: 75 Resp: 8656
Ion Ratio Lower Upper
75 100
77 162.0 25.0 37.6#



#62
4-Bromofluorobenzene
Concen: 50.125 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

Tgt Ion: 95 Resp: 439767
Ion Ratio Lower Upper
95 100
174 75.6 0.0 152.0
176 72.9 0.0 145.2

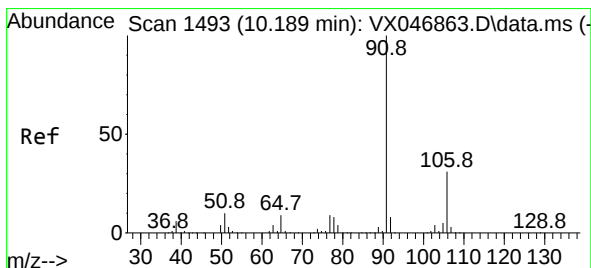
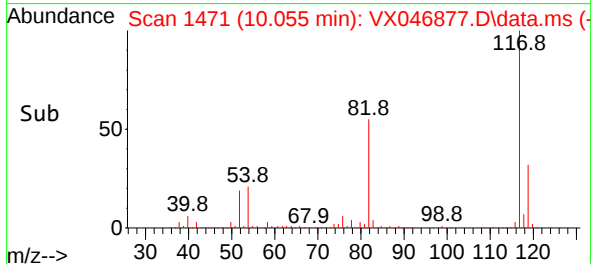
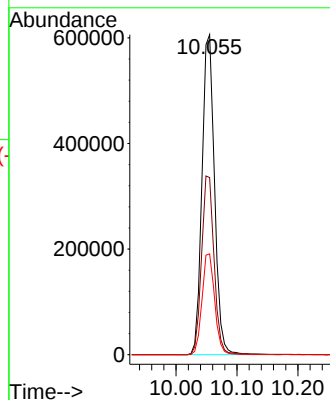
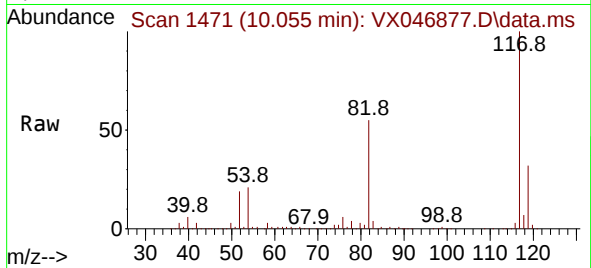




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

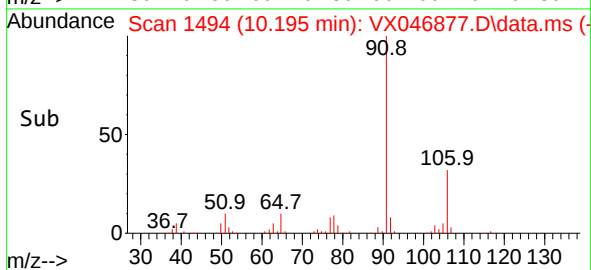
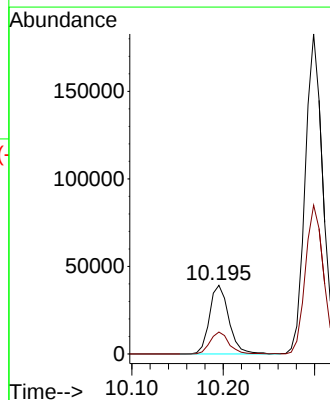
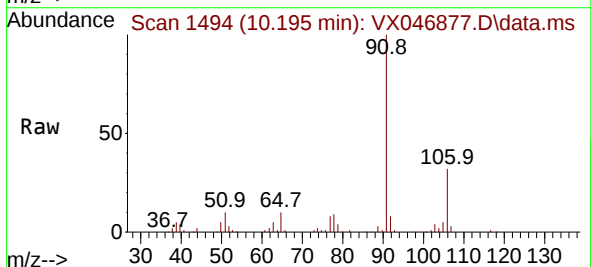
Instrument :
MSVOA_X
ClientSampleId :
MW3

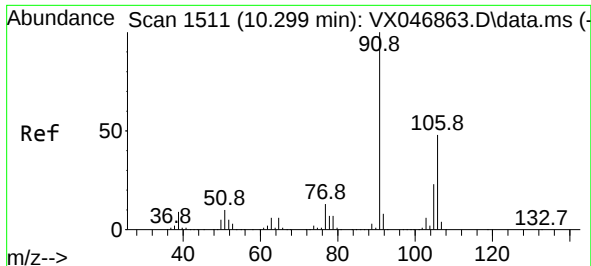
Tgt Ion:117 Resp: 868363
Ion Ratio Lower Upper
117 100
82 55.3 43.3 64.9
119 31.5 26.4 39.6



#67
Ethyl Benzene
Concen: 1.791 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

Tgt Ion: 91 Resp: 57585
Ion Ratio Lower Upper
91 100
106 32.0 24.4 36.6

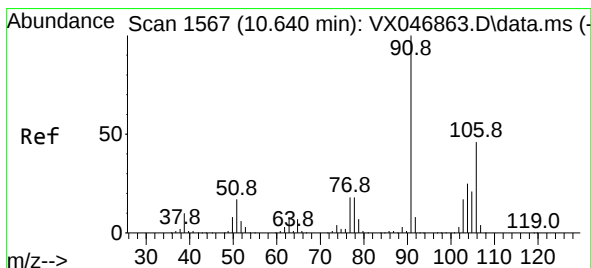
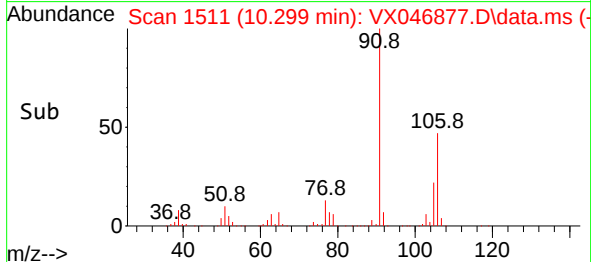
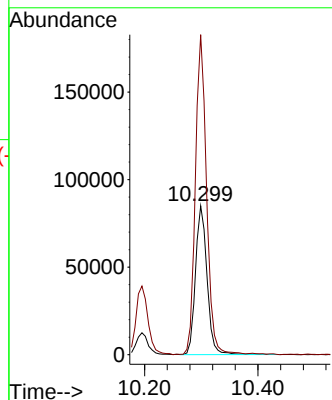
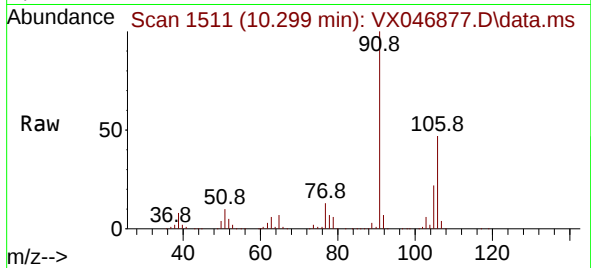




#68
m/p-Xylenes
Concen: 9.906 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

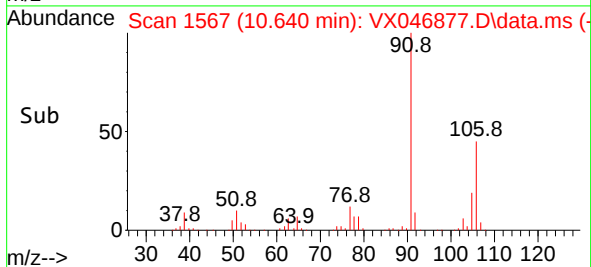
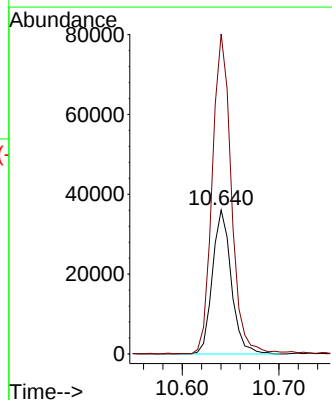
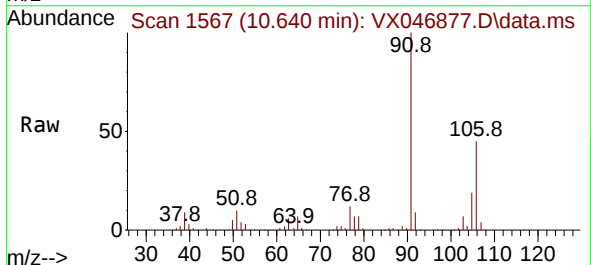
Instrument :
MSVOA_X
ClientSampleId :
MW3

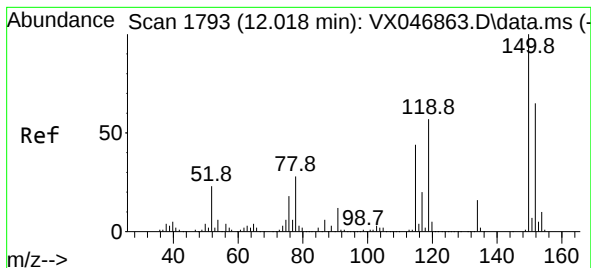
Tgt Ion:106 Resp: 120010
Ion Ratio Lower Upper
106 100
91 207.5 164.6 246.8



#69
o-Xylene
Concen: 4.173 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

Tgt Ion:106 Resp: 48832
Ion Ratio Lower Upper
106 100
91 224.1 109.5 328.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX046877.D

Acq: 03 Jul 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

MW3

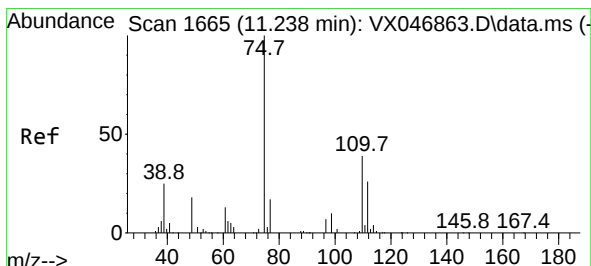
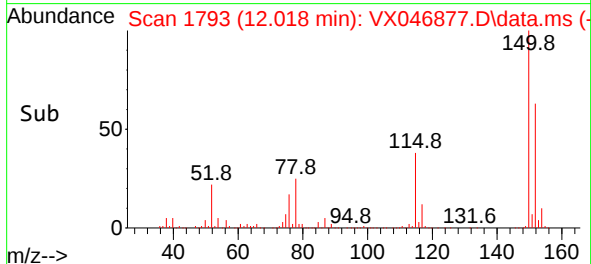
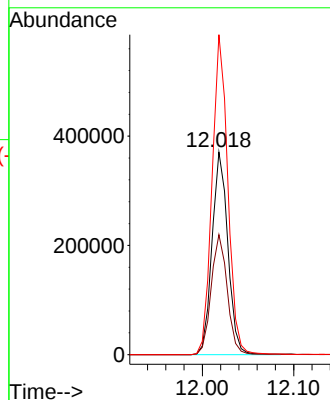
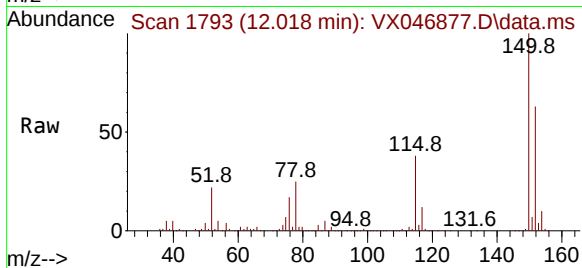
Tgt Ion:152 Resp: 447320

Ion Ratio Lower Upper

152 100

115 60.0 42.4 127.1

150 156.8 0.0 349.2



#76

1,2,3-Trichloropropane

Concen: 32.257 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX046877.D

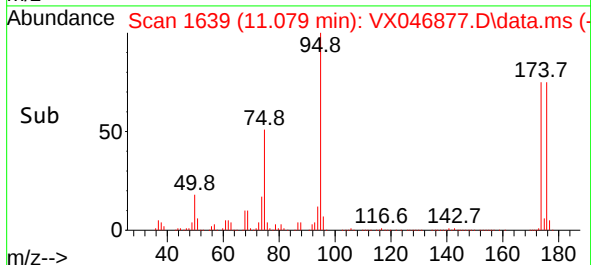
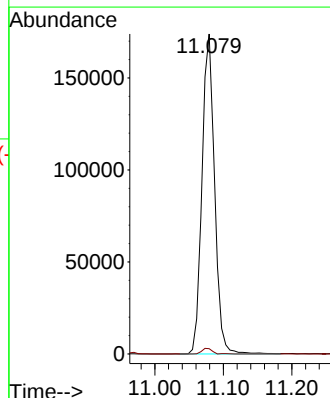
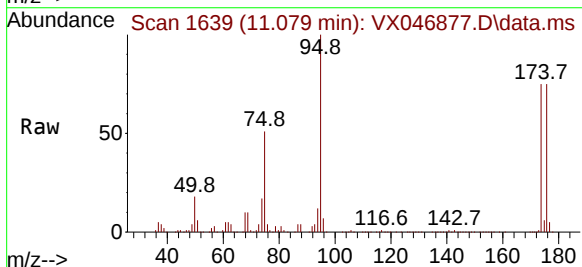
Acq: 03 Jul 2025 11:25

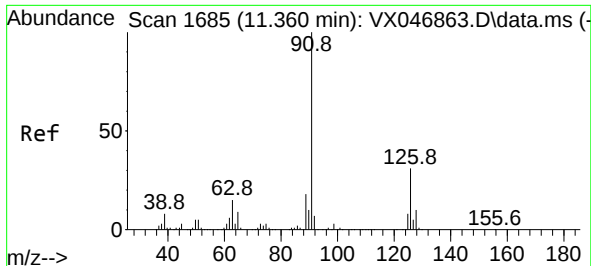
Tgt Ion: 75 Resp: 222954

Ion Ratio Lower Upper

75 100

77 1.4 20.6 61.8#





#79

2-Chlorotoluene

Concen: 0.395 ug/l

RT: 11.378 min Scan# 1

Delta R.T. 0.018 min

Lab File: VX046877.D

Acq: 03 Jul 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

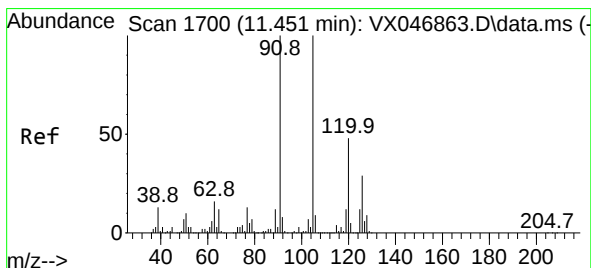
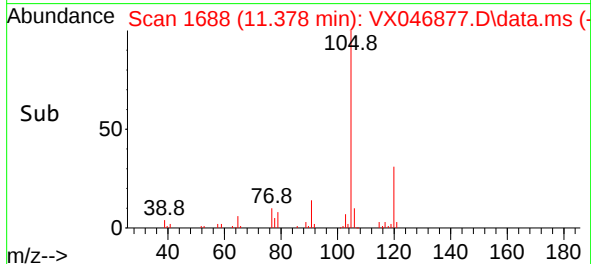
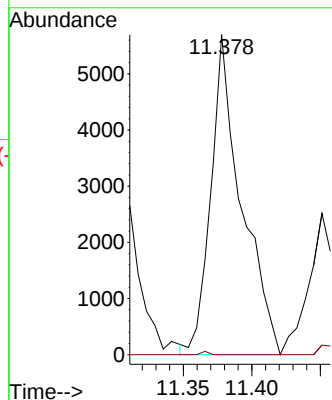
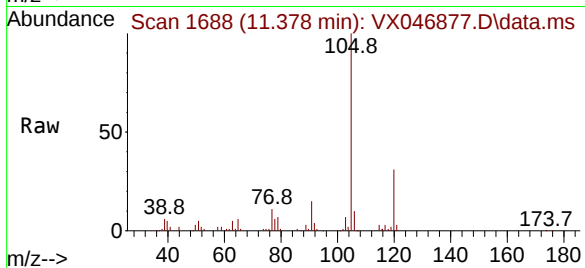
MW3

Tgt Ion: 91 Resp: 8845

Ion Ratio Lower Upper

91 100

126 0.2 16.6 49.8#



#80

1,3,5-Trimethylbenzene

Concen: 0.940 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX046877.D

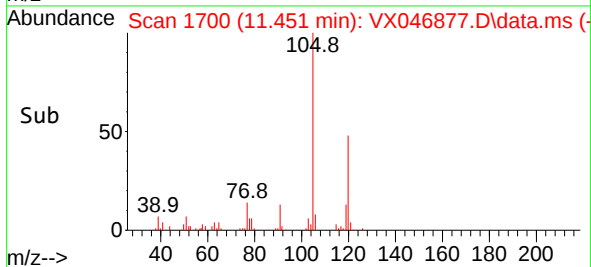
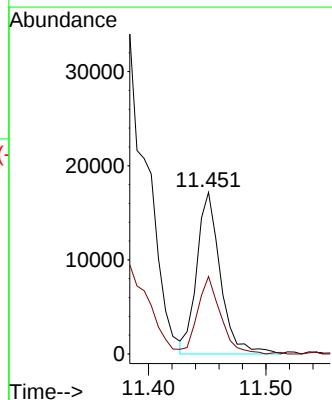
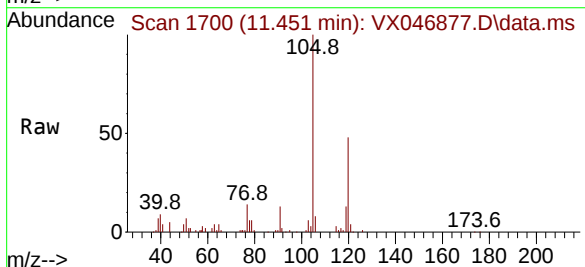
Acq: 03 Jul 2025 11:25

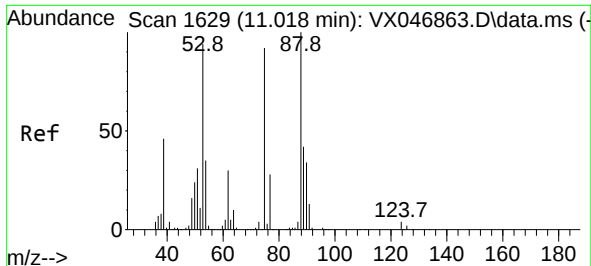
Tgt Ion:105 Resp: 24025

Ion Ratio Lower Upper

105 100

120 46.4 24.1 72.4

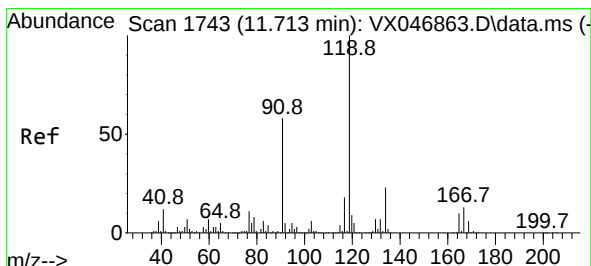
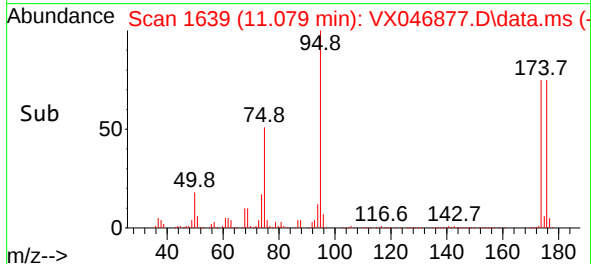
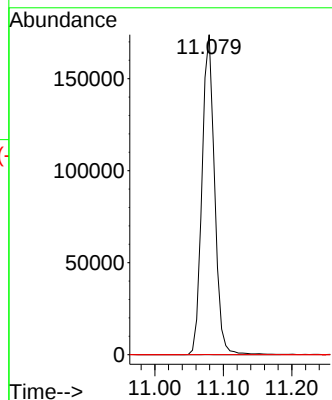
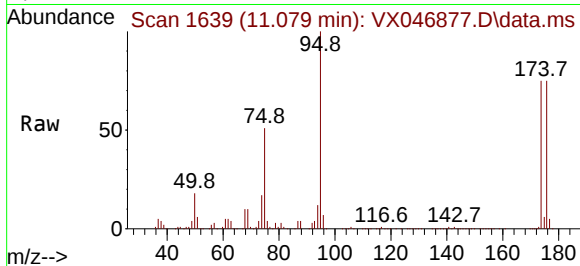




#81
trans-1,4-Dichloro-2-butene
Concen: 86.563 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

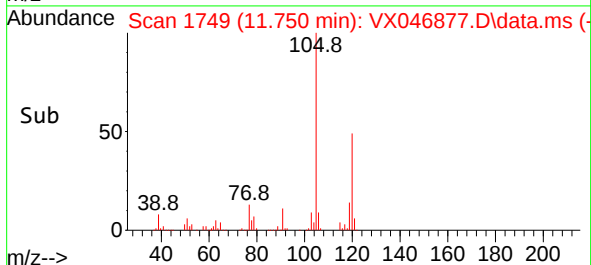
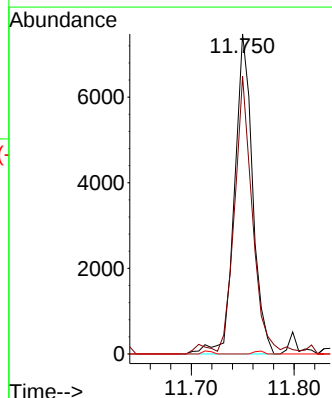
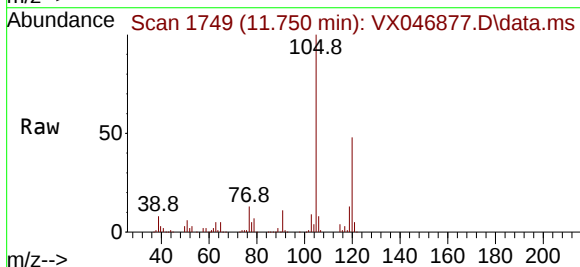
Instrument :
MSVOA_X
ClientSampleId :
MW3

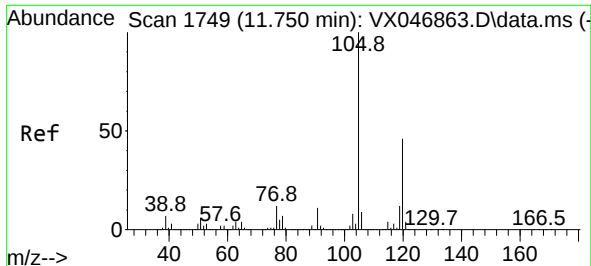
Tgt Ion: 75 Resp: 222954
Ion Ratio Lower Upper
75 100
53 0.0 83.7 125.5#
89 0.0 38.2 57.2#



#83
tert-Butylbenzene
Concen: 0.348 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.036 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

Tgt Ion: 119 Resp: 9173
Ion Ratio Lower Upper
119 100
91 84.1 28.7 86.3
134 0.5 11.4 34.2#

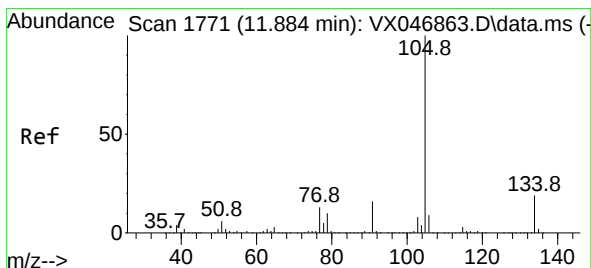
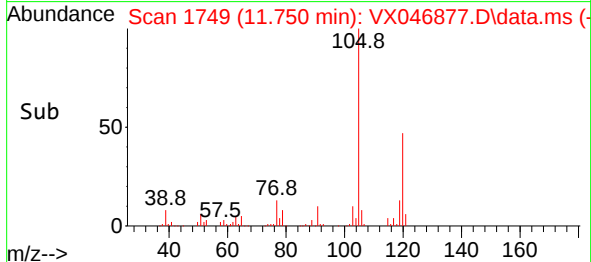
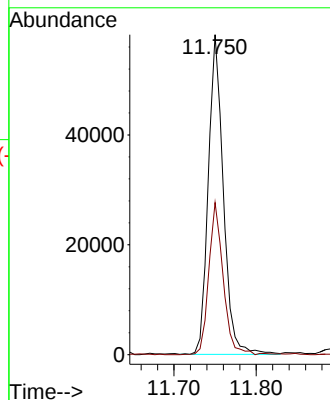
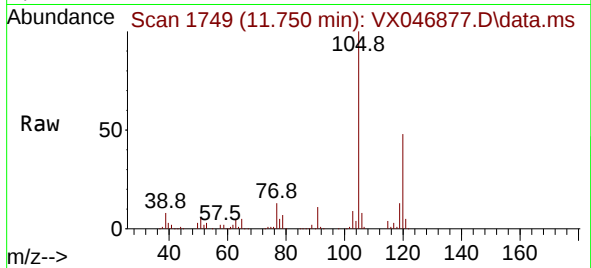




#84
1,2,4-Trimethylbenzene
Concen: 2.860 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

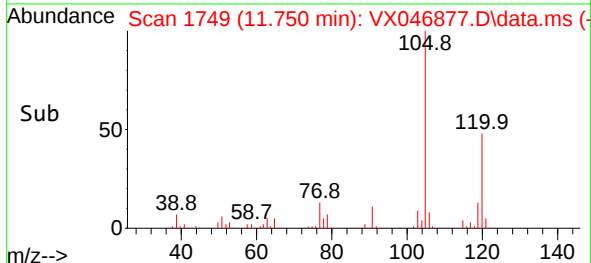
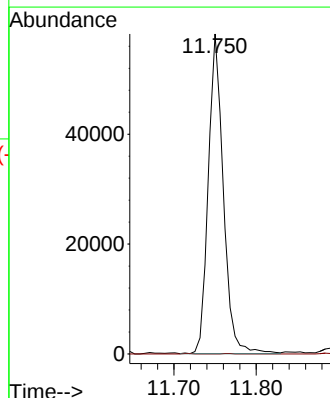
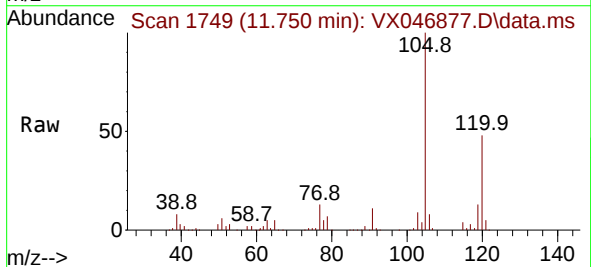
Instrument :
MSVOA_X
ClientSampleId :
MW3

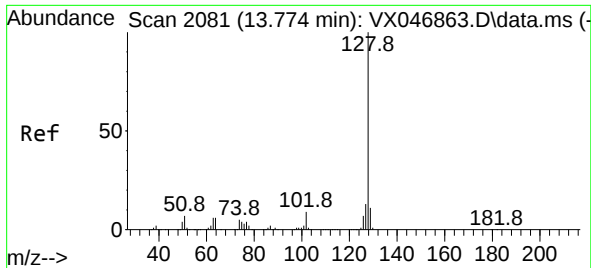
Tgt Ion:105 Resp: 73871
Ion Ratio Lower Upper
105 100
120 45.6 23.3 69.8



#85
sec-Butylbenzene
Concen: 2.220 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.134 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

Tgt Ion:105 Resp: 73871
Ion Ratio Lower Upper
105 100
134 0.1 9.9 29.7#





#95
Naphthalene
Concen: 0.483 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX046877.D
Acq: 03 Jul 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
MW3

Tgt Ion:	128	Resp:	12263
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.4
129	12.0	8.6	13.0

