

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
 Data File : VX046291.D
 Acq On : 21 May 2025 12:46
 Operator : JC/MD
 Sample : Q2093-14
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WATER-COMP

Quant Time: May 22 01:47:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

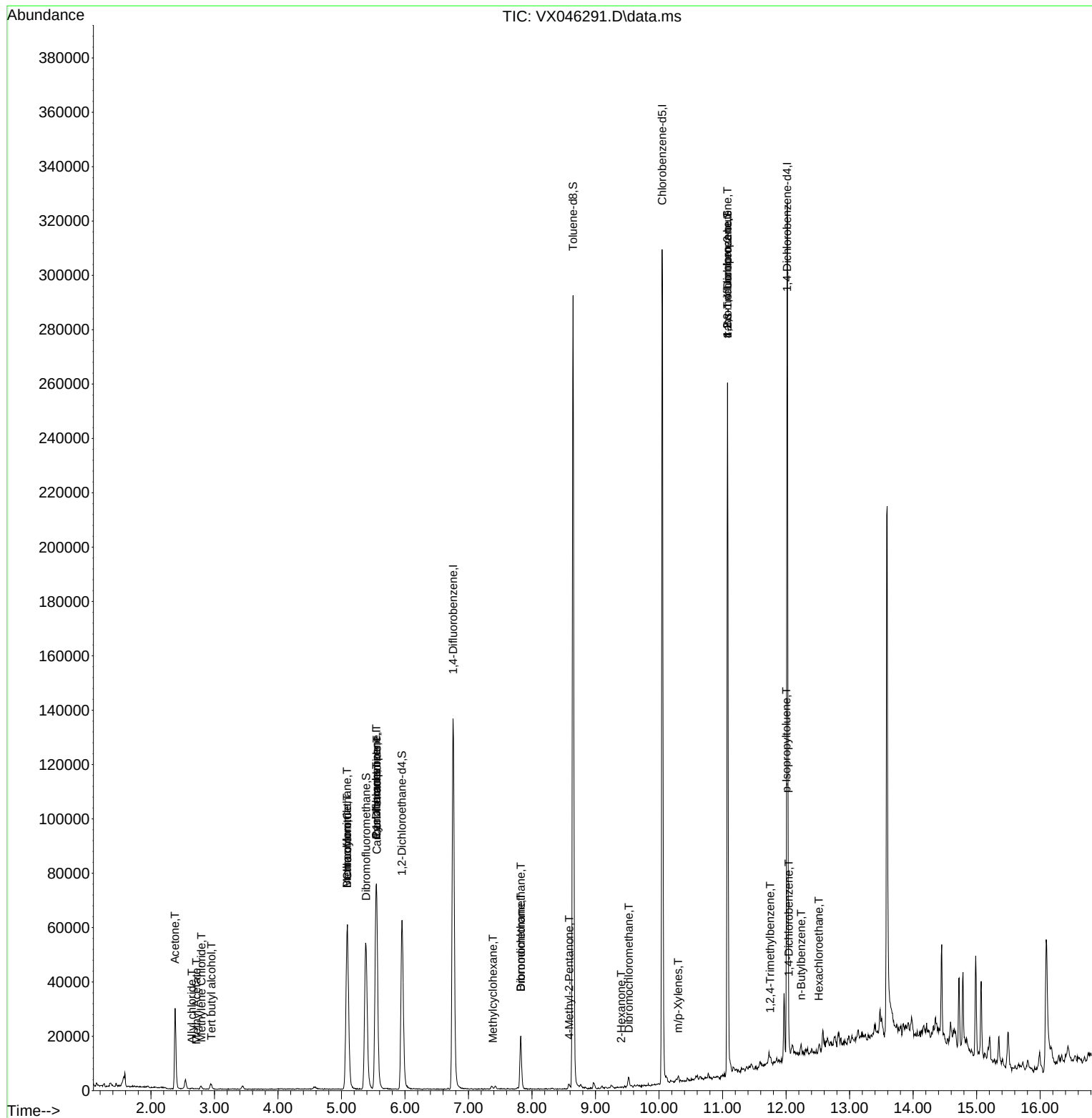
Internal Standards						
1) Pentafluorobenzene	5.550	168	65870	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	129997	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	125457	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	55849	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64759	52.734	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.460%			
35) Dibromofluoromethane	5.385	113	47686	50.940	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.880%			
50) Toluene-d8	8.647	98	164351	50.725	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.460%			
62) 4-Bromofluorobenzene	11.079	95	67548	54.350	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.700%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	2.953	59	1335	7.745	ug/l #	72
14) Allyl chloride	2.642	41	319	0.214	ug/l #	56
16) Acetone	2.380	43	31521	64.017	ug/l	100
18) Methyl Acetate	2.715	43	366	0.320	ug/l #	55
20) Methylene Chloride	2.794	84	496	0.526	ug/l	88
28) Bromochloromethane	5.087	49	6544	8.465	ug/l #	17
30) Chloroform	5.093	83	68976	41.205	ug/l	95
31) Cyclohexane	5.550	56	1887	1.289	ug/l #	59
36) 1,1-Dichloropropene	5.550	75	6560	5.216	ug/l #	52
38) Carbon Tetrachloride	5.556	117	8050	5.696	ug/l #	15
39) Methylcyclohexane	7.385	83	346	0.214	ug/l #	25
41) Methacrylonitrile	5.087	41	214	0.263	ug/l #	25
46) Dibromomethane	7.824	93	366	0.507	ug/l #	8
47) Bromodichloromethane	7.824	83	12780	8.981	ug/l	96
51) 4-Methyl-2-Pentanone	8.586	43	1546	0.982	ug/l #	79
59) 2-Hexanone	9.403	43	244	0.210	ug/l #	28
60) Dibromochloromethane	9.525	129	1606	1.642	ug/l	89
68) m/p-Xylenes	10.299	106	556	0.314	ug/l #	67
76) 1,2,3-Trichloropropane	11.079	75	37820	28.133	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	37820	91.593	ug/l #	1
84) 1,2,4-Trimethylbenzene	11.750	105	1014	0.276	ug/l	76
86) p-Isopropyltoluene	12.006	119	2336	0.630	ug/l #	71
88) 1,4-Dichlorobenzene	12.043	146	504	0.268	ug/l #	70
89) n-Butylbenzene	12.238	91	658	0.202	ug/l	86
90) Hexachloroethane	12.518	117	156	0.239	ug/l #	19

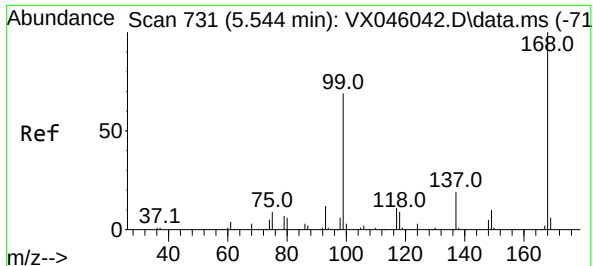
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_X
ClientSampleId :
WATER-COMP

Quant Time: May 22 01:47:59 2025
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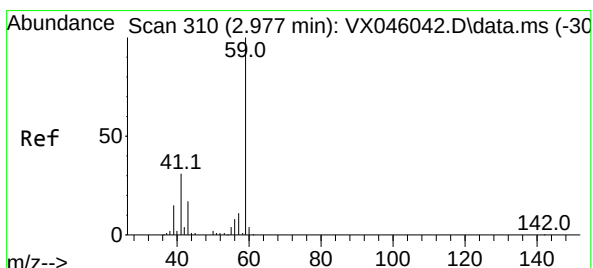
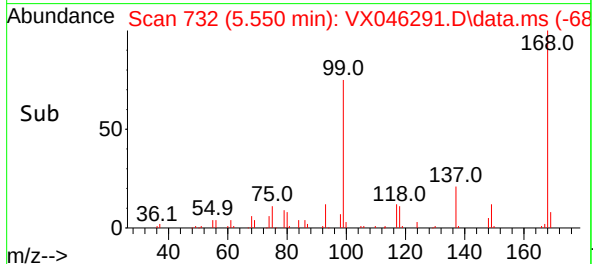
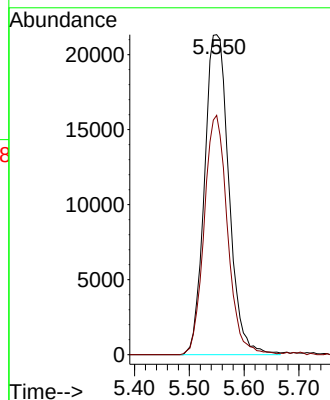
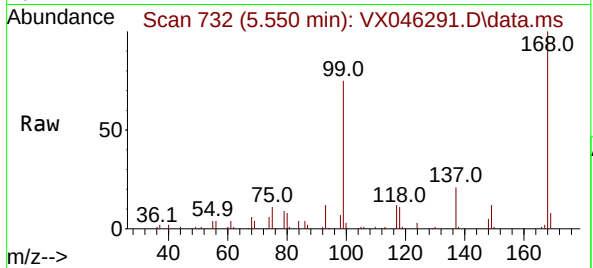




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

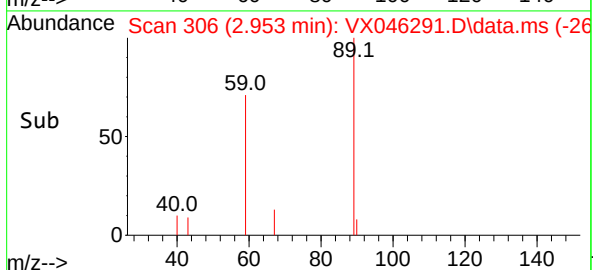
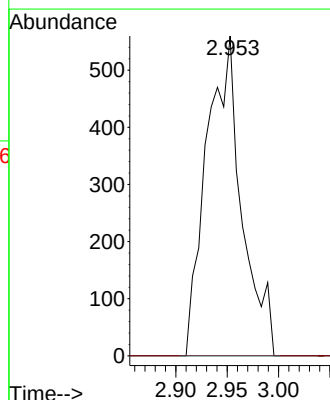
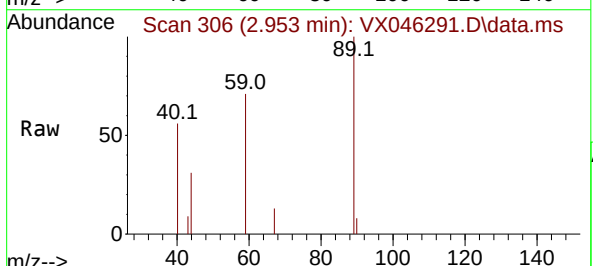
Instrument :
MSVOA_X
ClientSampleId :
WATER-COMP

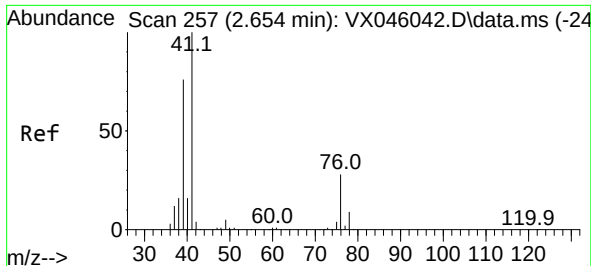
Tgt Ion:168 Resp: 65870
Ion Ratio Lower Upper
168 100
99 74.8 54.9 82.3



#11
Tert butyl alcohol
Concen: 7.745 ug/l
RT: 2.953 min Scan# 306
Delta R.T. -0.024 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

Tgt Ion: 59 Resp: 1335
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

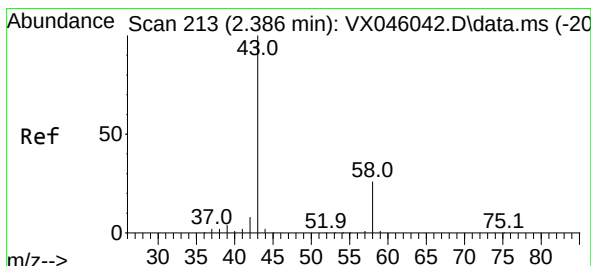
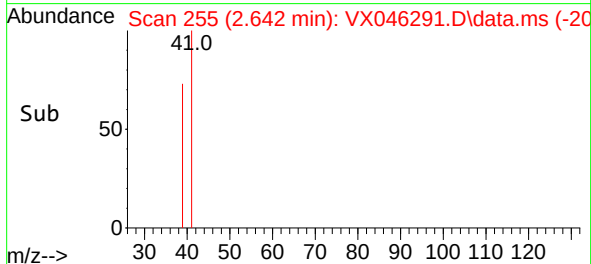
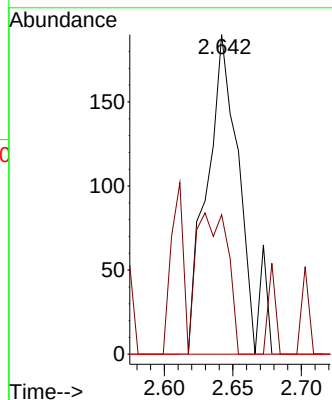
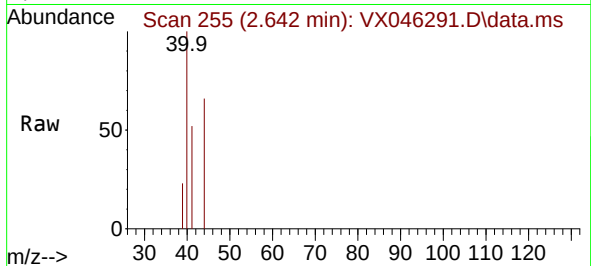




#14
 Allyl chloride
 Concen: 0.214 ug/l
 RT: 2.642 min Scan# 212
 Delta R.T. -0.012 min
 Lab File: VX046291.D
 Acq: 21 May 2025 12:46

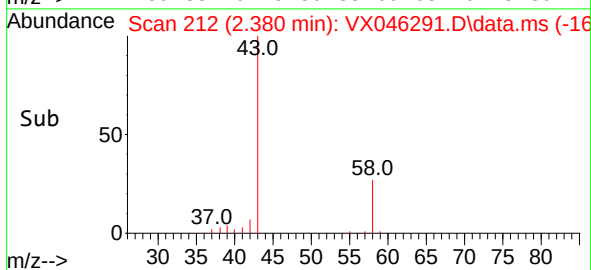
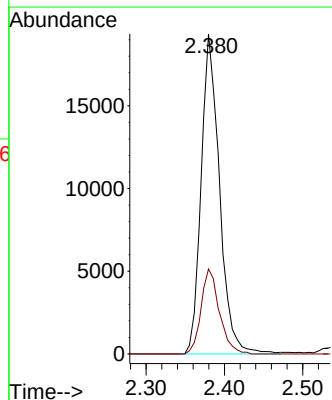
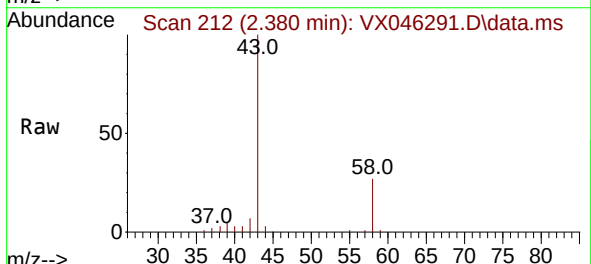
Instrument :
 MSVOA_X
 ClientSampleId :
 WATER-COMP

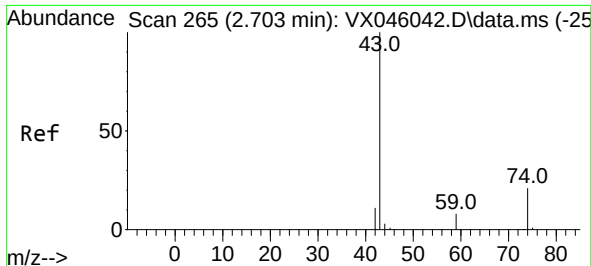
Tgt Ion: 41 Resp: 319
 Ion Ratio Lower Upper
 41 100
 39 42.3 60.6 90.8#
 76 0.0 24.9 37.3#



#16
 Acetone
 Concen: 64.017 ug/l
 RT: 2.380 min Scan# 212
 Delta R.T. -0.006 min
 Lab File: VX046291.D
 Acq: 21 May 2025 12:46

Tgt Ion: 43 Resp: 31521
 Ion Ratio Lower Upper
 43 100
 58 26.6 21.2 31.8

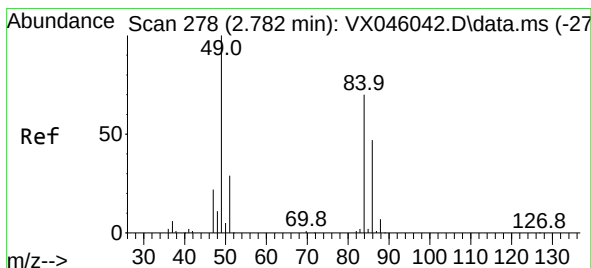
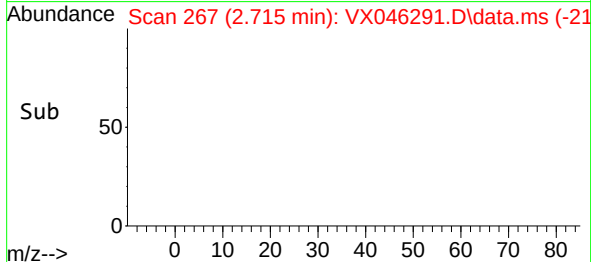
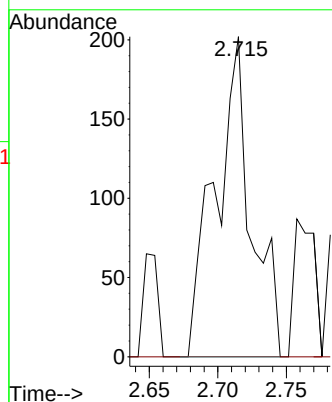
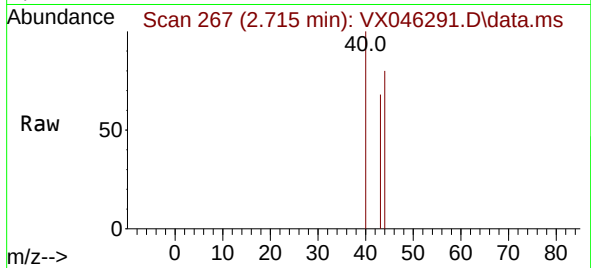




#18
Methyl Acetate
Concen: 0.320 ug/l
RT: 2.715 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

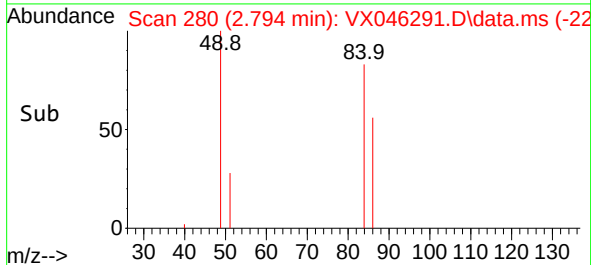
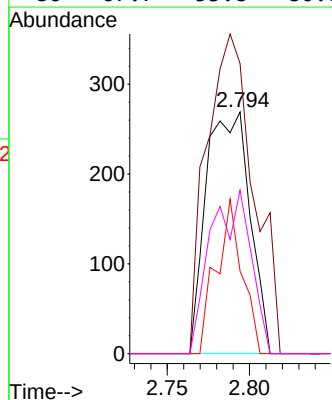
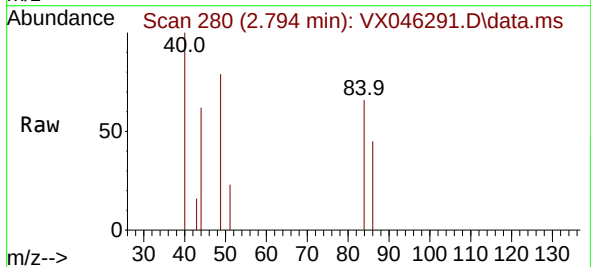
Instrument :
MSVOA_X
ClientSampleId :
WATER-COMP

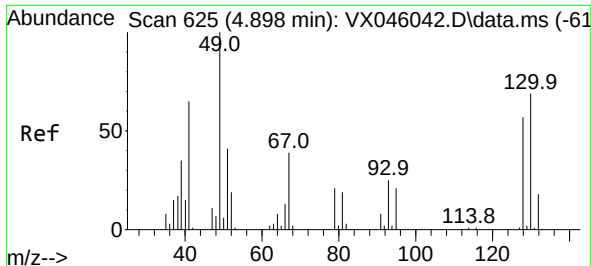
Tgt Ion: 43 Resp: 366
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#20
Methylene Chloride
Concen: 0.526 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.012 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

Tgt Ion: 84 Resp: 496
Ion Ratio Lower Upper
84 100
49 120.1 113.9 170.9
51 34.2 33.5 50.3
86 67.7 53.8 80.8

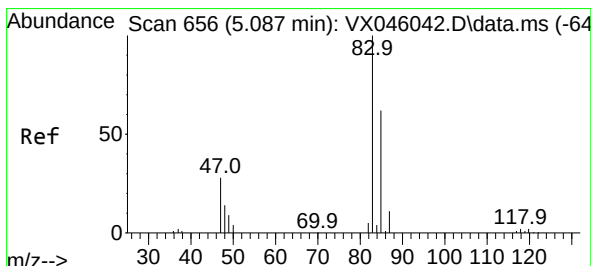
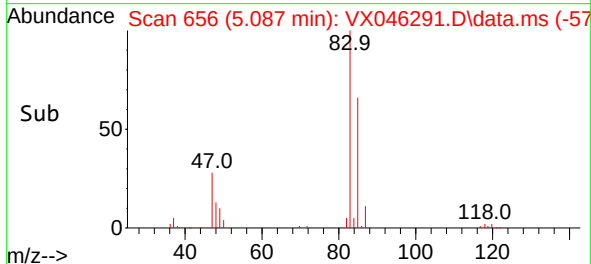
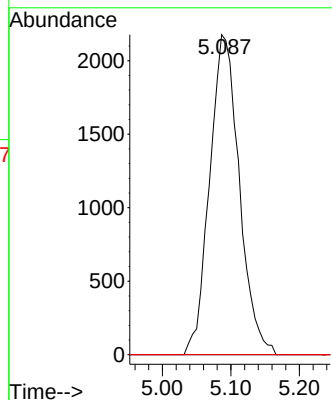
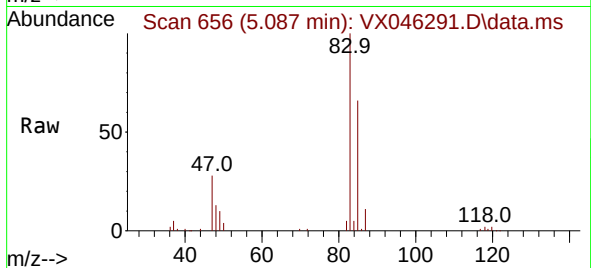




#28
Bromochloromethane
Concen: 8.465 ug/l
RT: 5.087 min Scan# 61
Delta R.T. 0.189 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

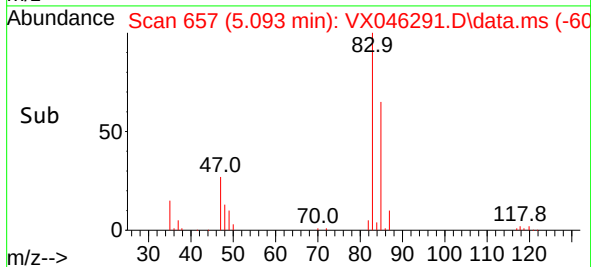
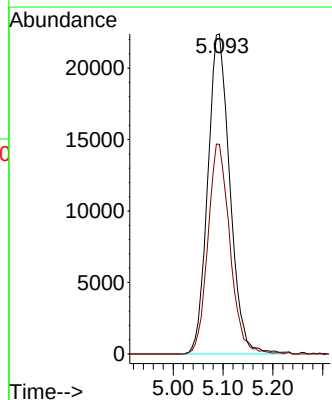
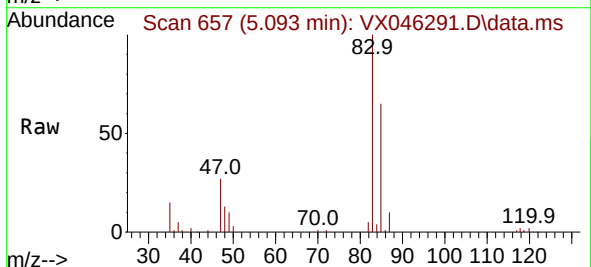
Instrument :
MSVOA_X
ClientSampleId :
WATER-COMP

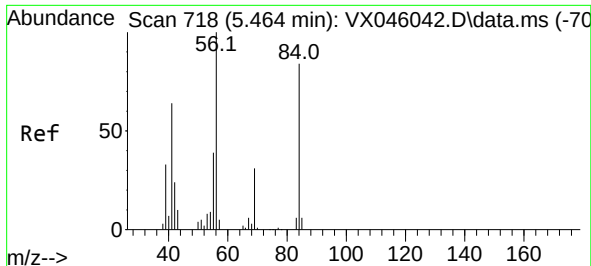
Tgt Ion: 49 Resp: 6544
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 0.0 56.2 84.2#



#30
Chloroform
Concen: 41.205 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

Tgt Ion: 83 Resp: 68976
Ion Ratio Lower Upper
83 100
85 65.5 49.3 73.9

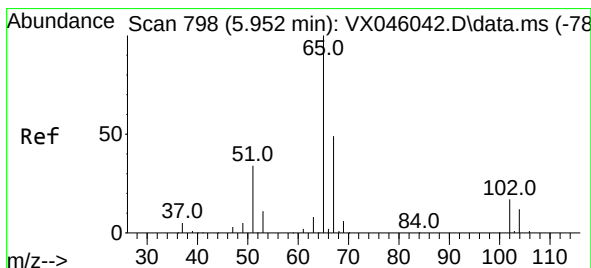
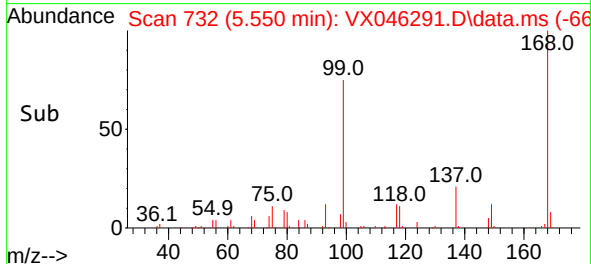
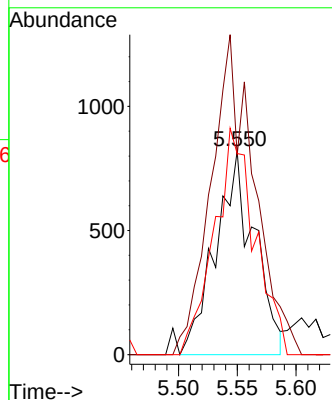
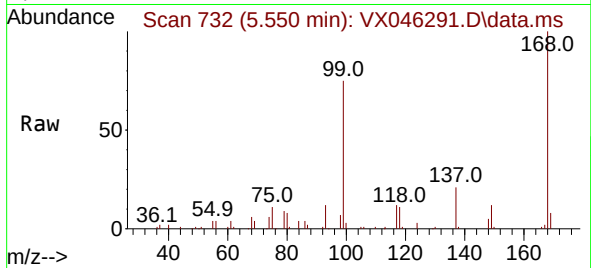




#31
Cyclohexane
Concen: 1.289 ug/l
RT: 5.550 min Scan# 718
Delta R.T. 0.085 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

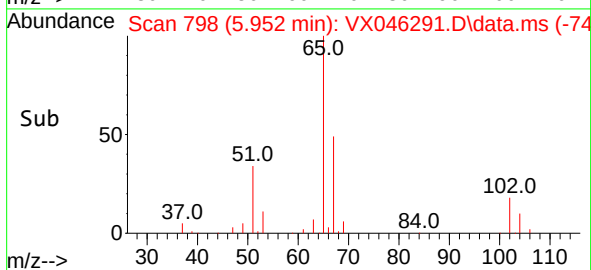
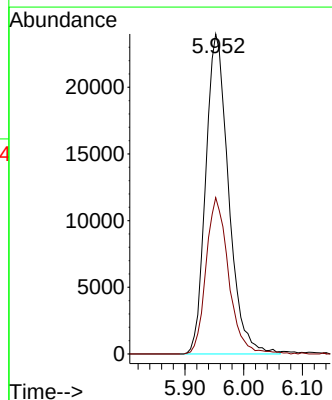
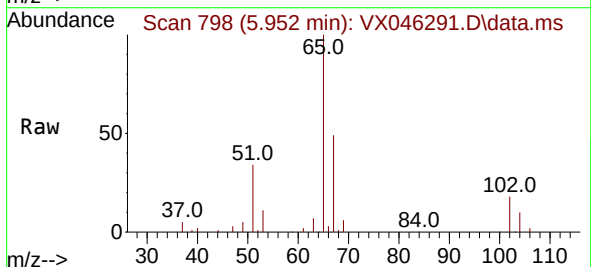
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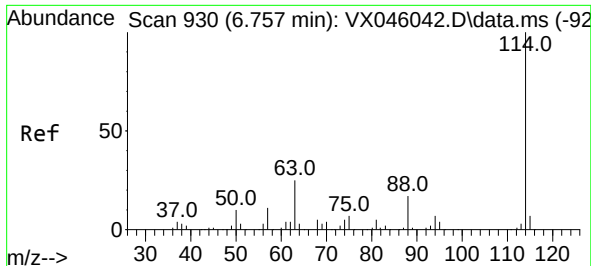
Tgt Ion: 56 Resp: 1887
Ion Ratio Lower Upper
56 100
69 89.0 24.4 36.6#
84 98.7 66.9 100.3



#33
1,2-Dichloroethane-d4
Concen: 52.734 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

Tgt Ion: 65 Resp: 64759
Ion Ratio Lower Upper
65 100
67 48.4 0.0 99.0

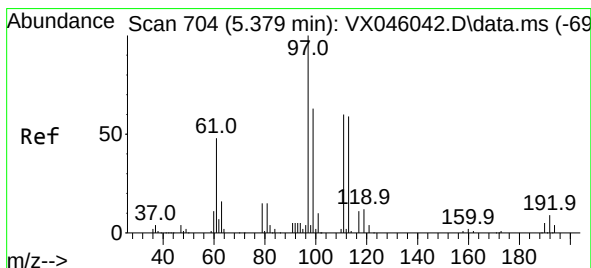
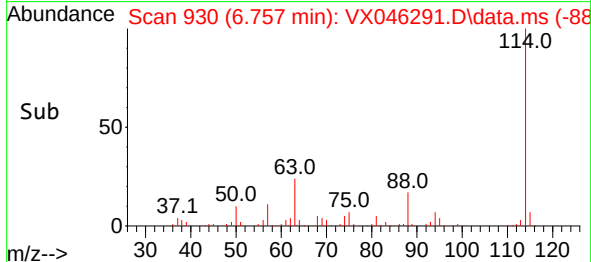
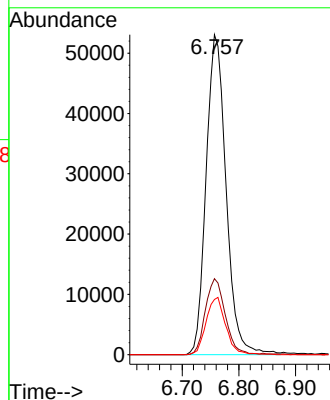
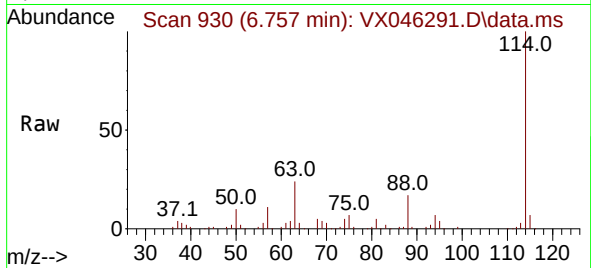




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.757 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VX046291.D
 Acq: 21 May 2025 12:46

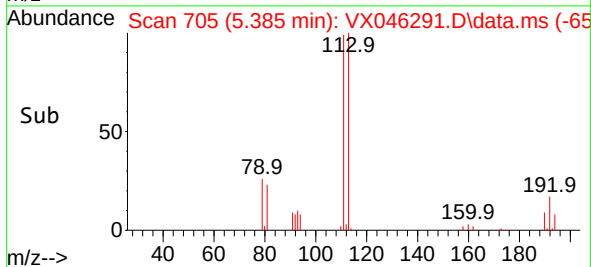
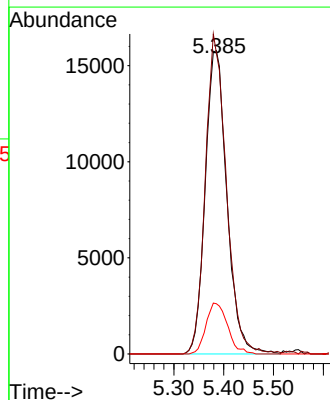
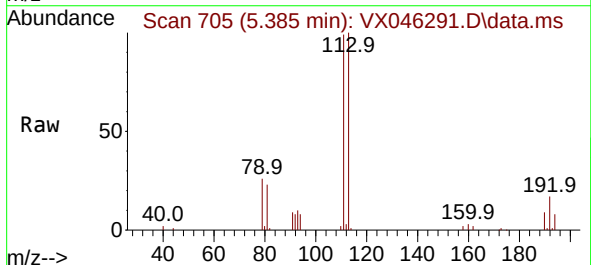
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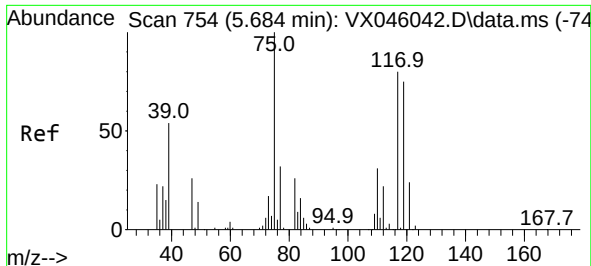
Tgt Ion:114 Resp: 129997
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 49.2
 88 17.3 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 50.940 ug/l
 RT: 5.385 min Scan# 705
 Delta R.T. 0.006 min
 Lab File: VX046291.D
 Acq: 21 May 2025 12:46

Tgt Ion:113 Resp: 47686
 Ion Ratio Lower Upper
 113 100
 111 102.4 83.1 124.7
 192 16.7 13.3 19.9

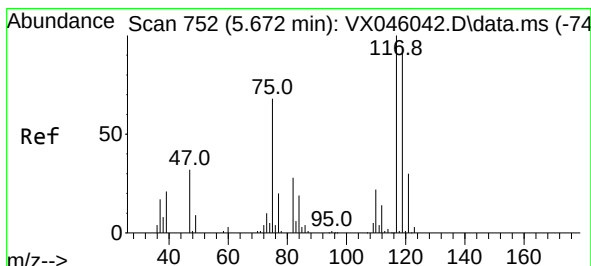
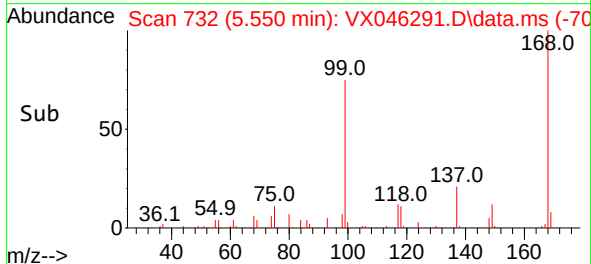
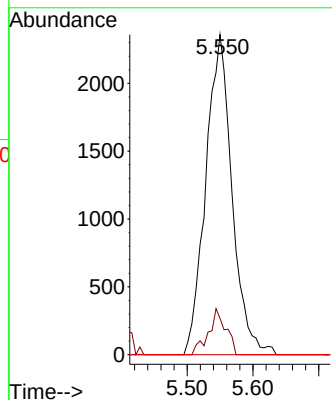
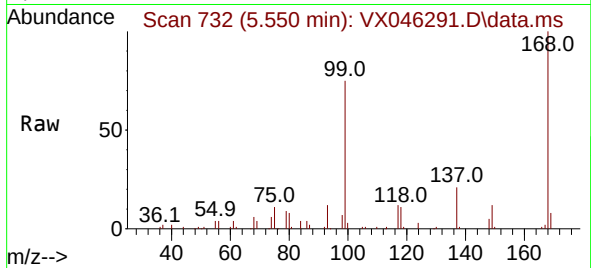




#36
1,1-Dichloropropene
Concen: 5.216 ug/l
RT: 5.550 min Scan# 713
Delta R.T. -0.134 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

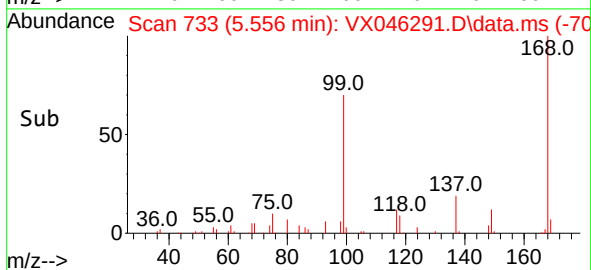
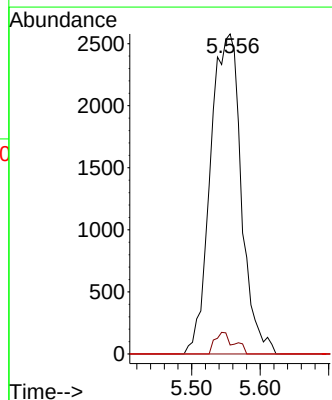
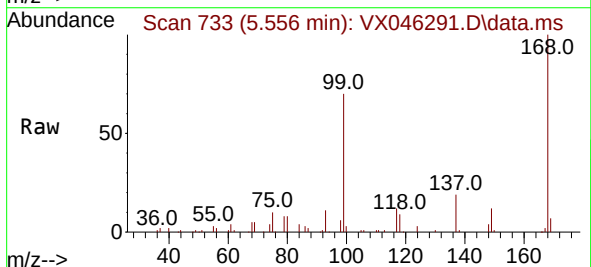
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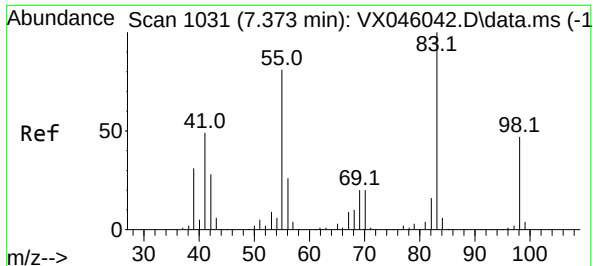
Tgt Ion: 75 Resp: 6560
Ion Ratio Lower Upper
75 100
110 9.4 16.3 48.9#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 5.696 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.116 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

Tgt Ion: 117 Resp: 8050
Ion Ratio Lower Upper
117 100
119 2.8 75.2 112.8#
121 0.0 24.2 36.4#





#39

Methylcyclohexane

Concen: 0.214 ug/l

RT: 7.385 min Scan# 1

Delta R.T. 0.012 min

Lab File: VX046291.D

Acq: 21 May 2025 12:46

Instrument :

MSVOA_X

ClientSampleId :

WATER-COMP

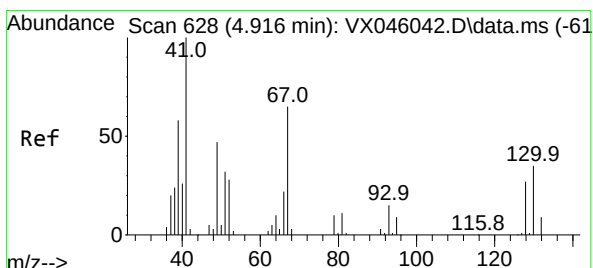
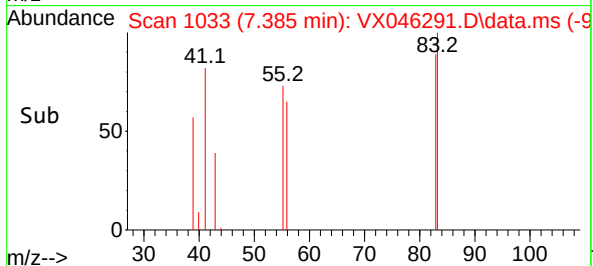
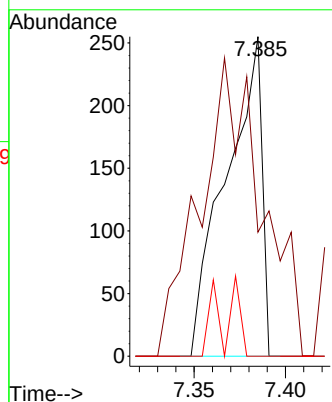
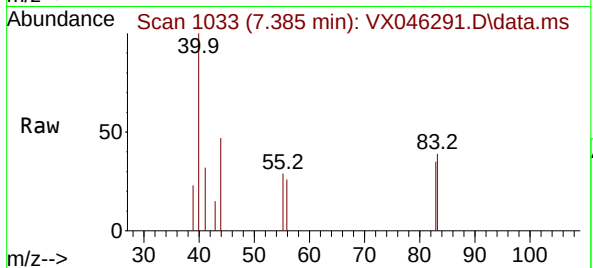
Tgt Ion: 83 Resp: 346

Ion Ratio Lower Upper

83 100

55 12.2 64.7 97.1#

98 0.0 37.4 56.2#



#41

Methacrylonitrile

Concen: 0.263 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.171 min

Lab File: VX046291.D

Acq: 21 May 2025 12:46

Tgt Ion: 41 Resp: 214

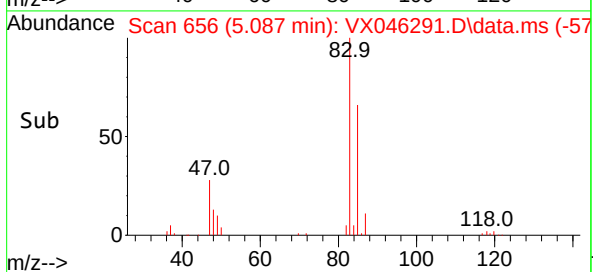
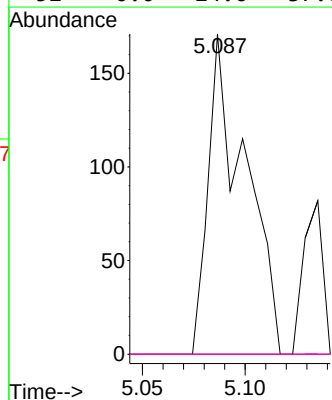
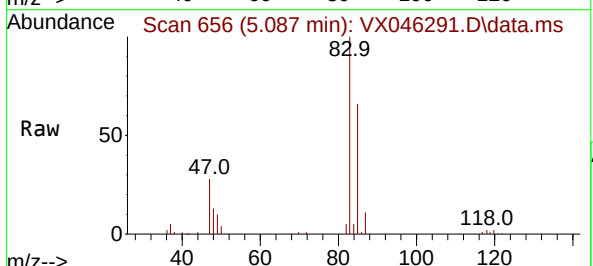
Ion Ratio Lower Upper

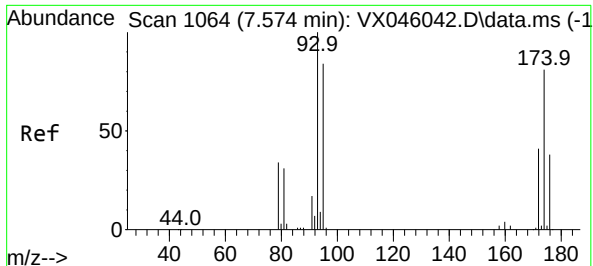
41 100

39 0.0 47.2 70.8#

67 0.0 50.7 76.1#

52 0.0 24.6 37.0#

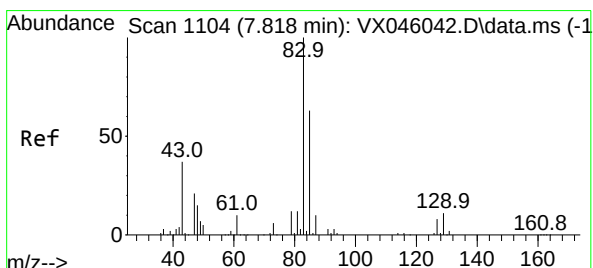
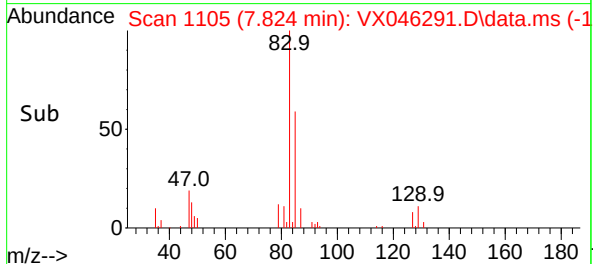
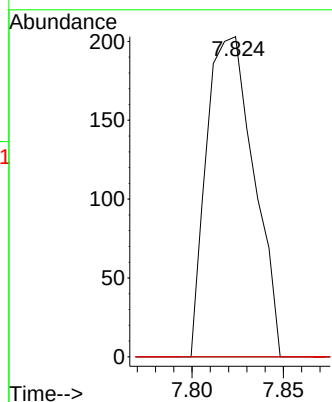
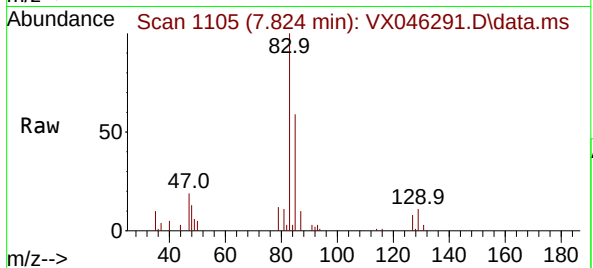




#46
Dibromomethane
Concen: 0.507 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.250 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

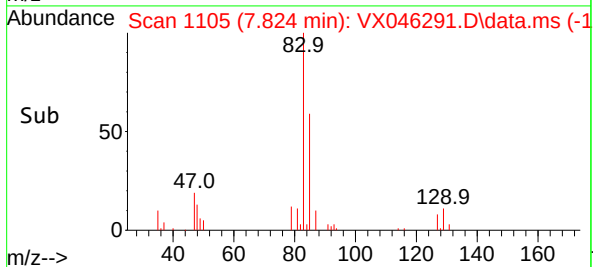
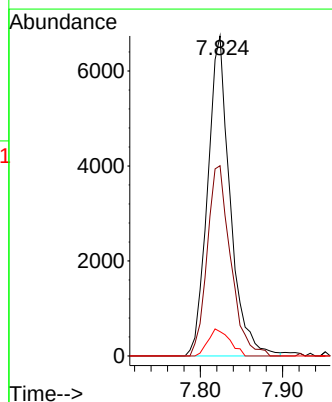
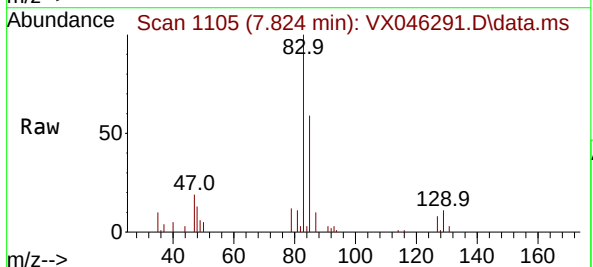
Instrument :
MSVOA_X
ClientSampleId :
WATER-COMP

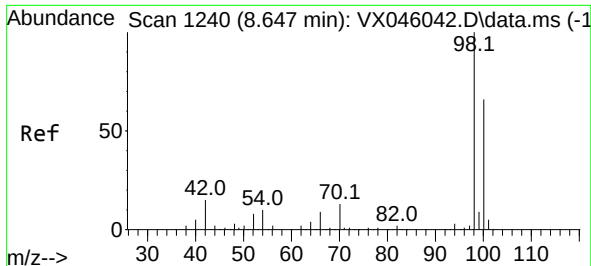
Tgt Ion: 93 Resp: 366
Ion Ratio Lower Upper
93 100
95 0.0 65.6 98.4#
174 0.0 68.2 102.2#



#47
Bromodichloromethane
Concen: 8.981 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.006 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

Tgt Ion: 83 Resp: 12780
Ion Ratio Lower Upper
83 100
85 59.4 50.5 75.7
127 7.6 6.5 9.7

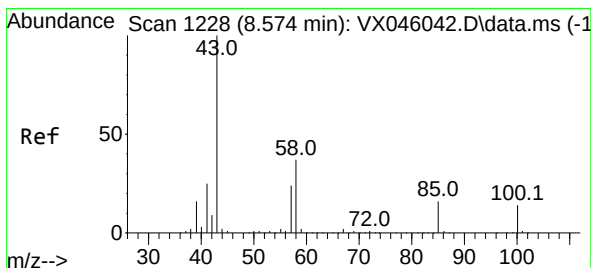
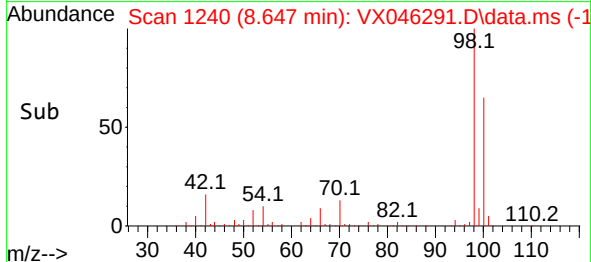
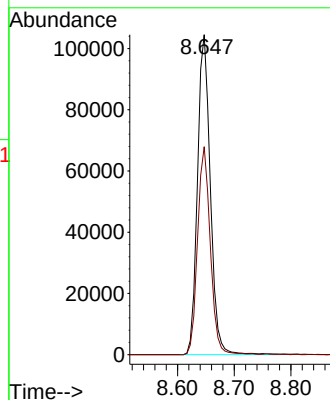
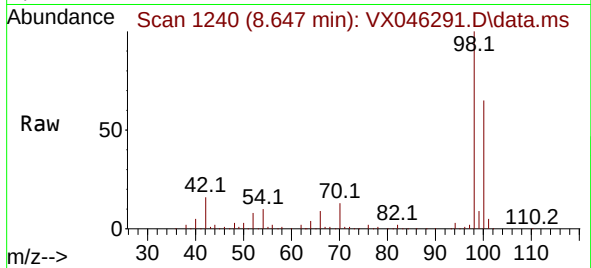




#50
Toluene-d8
Concen: 50.725 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

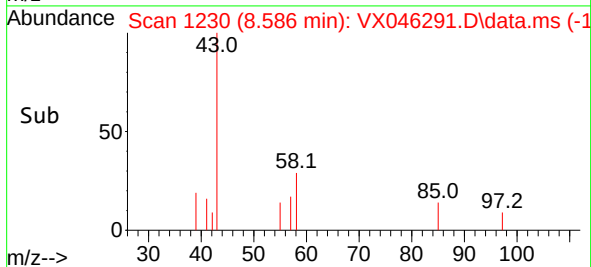
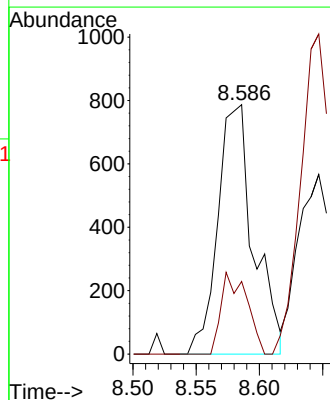
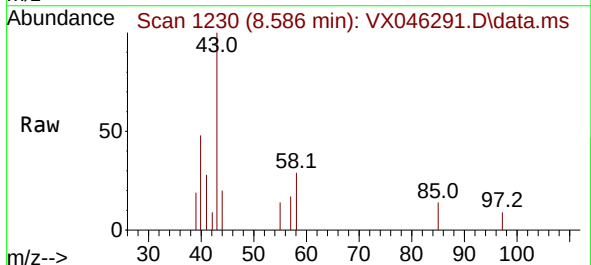
Instrument :
MSVOA_X
ClientSampleId :
WATER-COMP

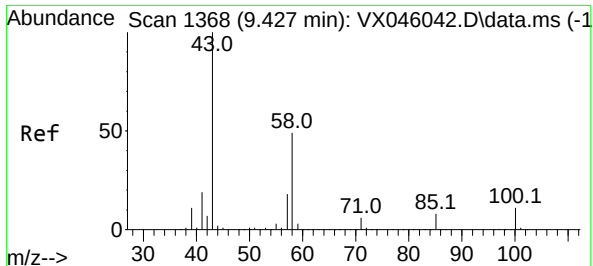
Tgt Ion: 98 Resp: 164351
Ion Ratio Lower Upper
98 100
100 64.5 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 0.982 ug/l
RT: 8.586 min Scan# 1230
Delta R.T. 0.012 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

Tgt Ion: 43 Resp: 1546
Ion Ratio Lower Upper
43 100
58 23.5 28.9 43.3#

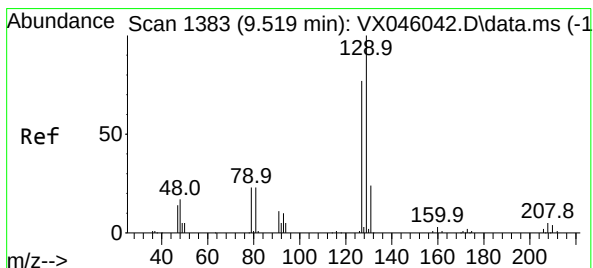
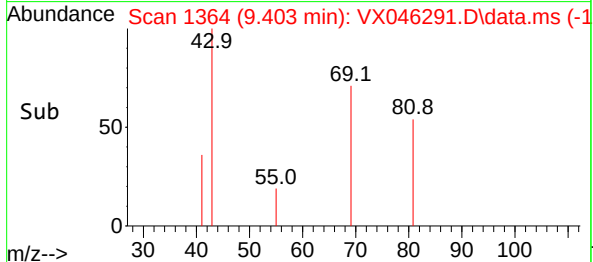
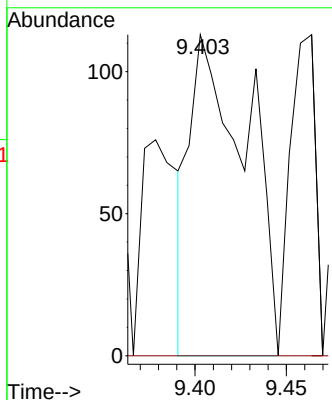
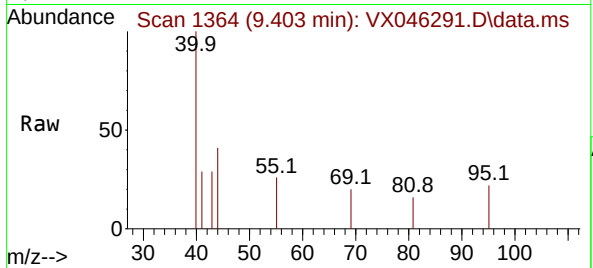




#59
2-Hexanone
Concen: 0.210 ug/l
RT: 9.403 min Scan# 1364
Delta R.T. -0.024 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

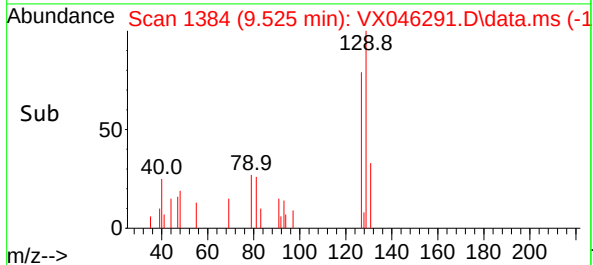
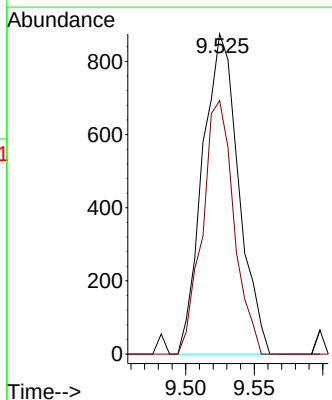
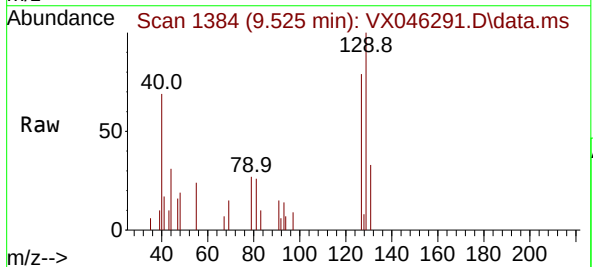
Instrument :
MSVOA_X
ClientSampleId :
WATER-COMP

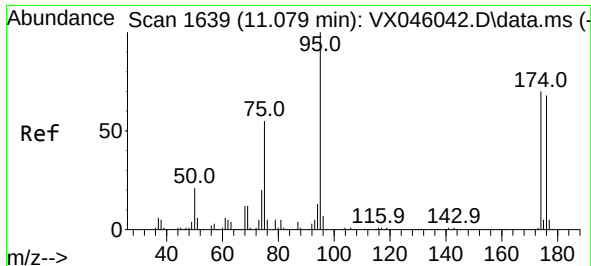
Tgt Ion: 43 Resp: 244
Ion Ratio Lower Upper
43 100
58 0.0 24.9 74.6#



#60
Dibromochloromethane
Concen: 1.642 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

Tgt Ion: 129 Resp: 1606
Ion Ratio Lower Upper
129 100
127 69.2 39.3 117.8





#62

4-Bromofluorobenzene

Concen: 54.350 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046291.D

Acq: 21 May 2025 12:46

Instrument :

MSVOA_X

ClientSampleId :

WATER-COMP

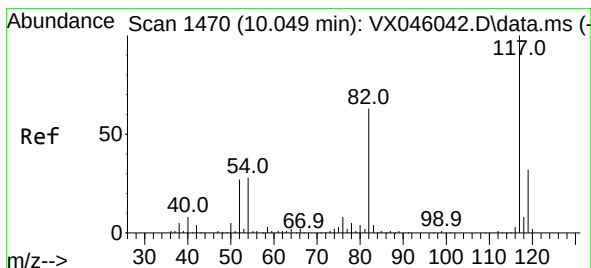
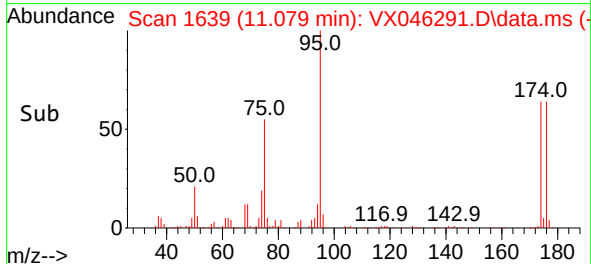
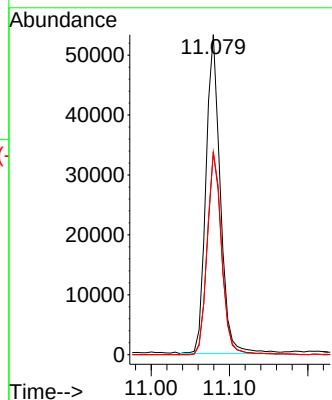
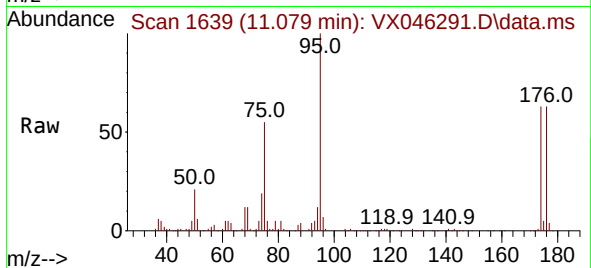
Tgt Ion: 95 Resp: 67548

Ion Ratio Lower Upper

95 100

174 63.8 0.0 135.8

176 64.1 0.0 131.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX046291.D

Acq: 21 May 2025 12:46

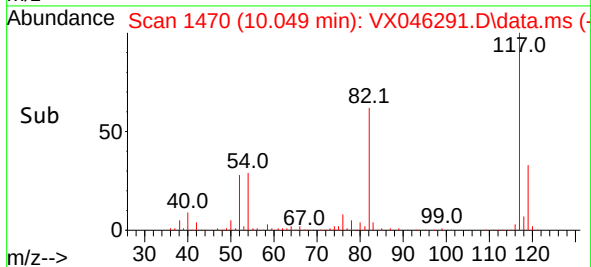
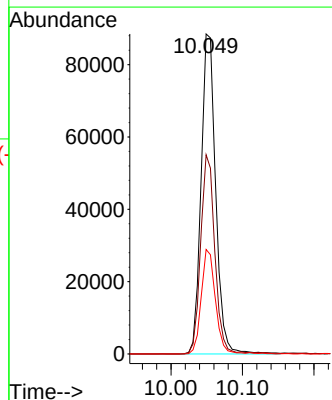
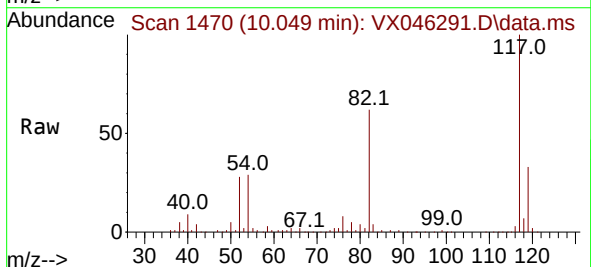
Tgt Ion: 117 Resp: 125457

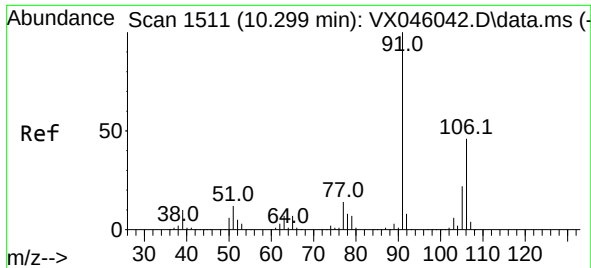
Ion Ratio Lower Upper

117 100

82 62.3 50.6 76.0

119 32.6 25.8 38.6

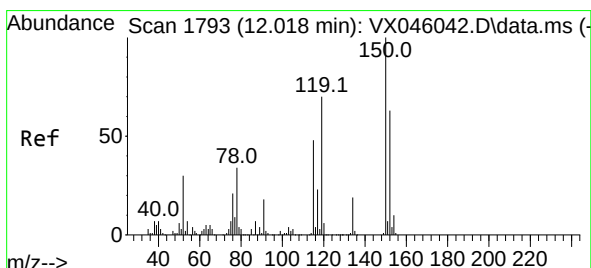
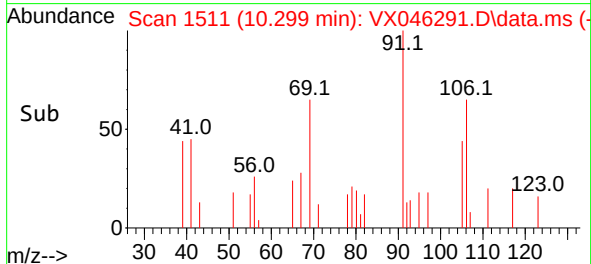
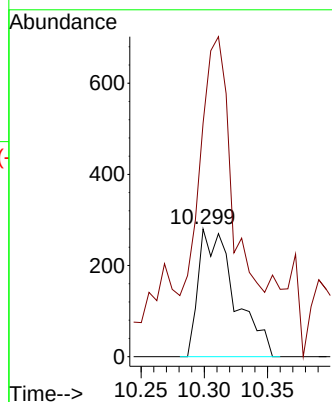
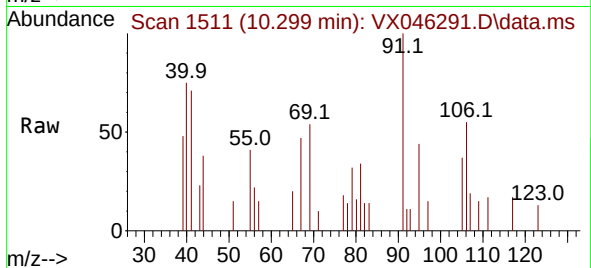




#68
m/p-Xylenes
Concen: 0.314 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

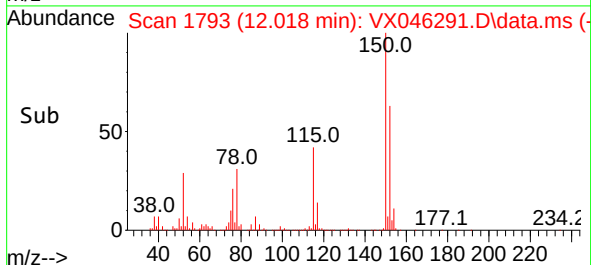
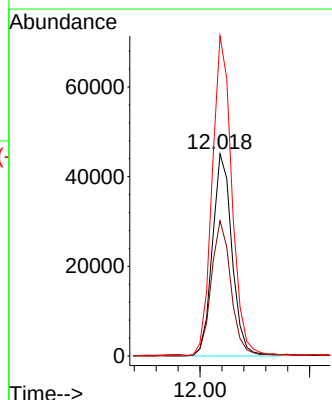
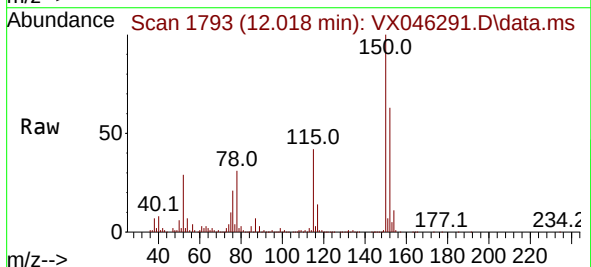
Instrument :
MSVOA_X
ClientSampleId :
WATER-COMP

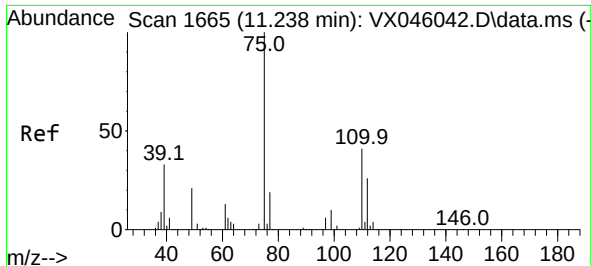
Tgt Ion:106 Resp: 556
Ion Ratio Lower Upper
106 100
91 161.7 171.2 256.8#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

Tgt Ion:152 Resp: 55849
Ion Ratio Lower Upper
152 100
115 66.5 46.9 140.7
150 159.8 0.0 351.0

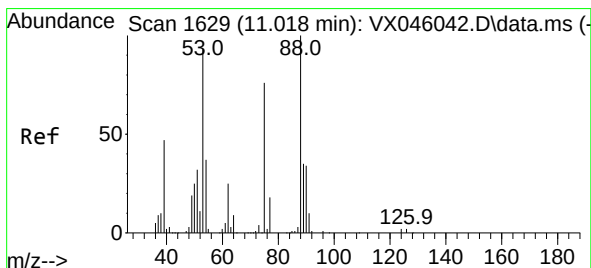
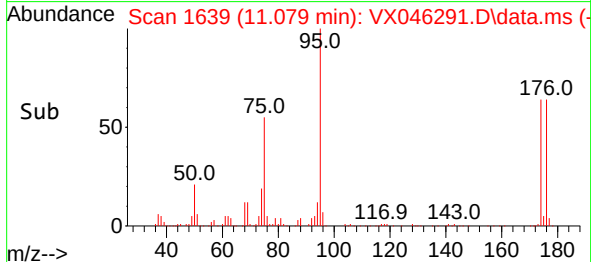
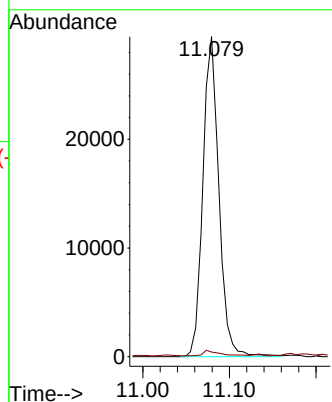
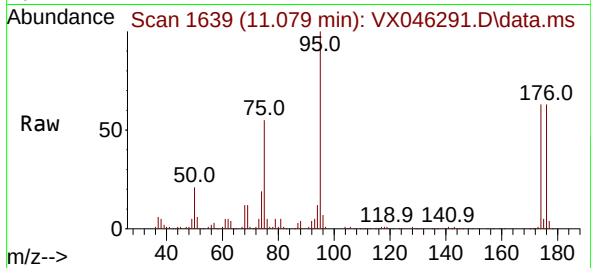




#76
1,2,3-Trichloropropane
Concen: 28.133 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

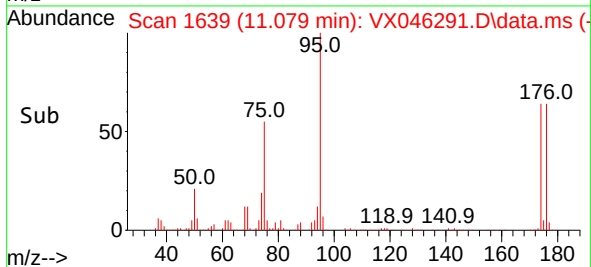
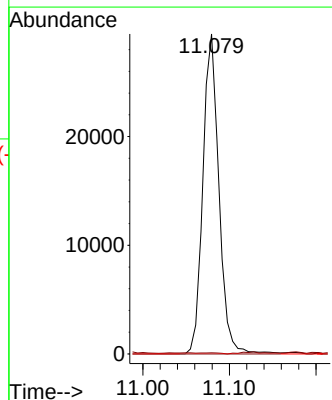
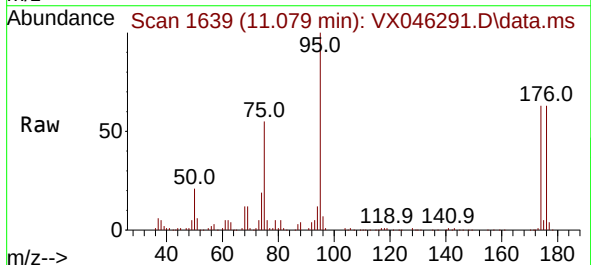
Instrument :
MSVOA_X
ClientSampleId :
WATER-COMP

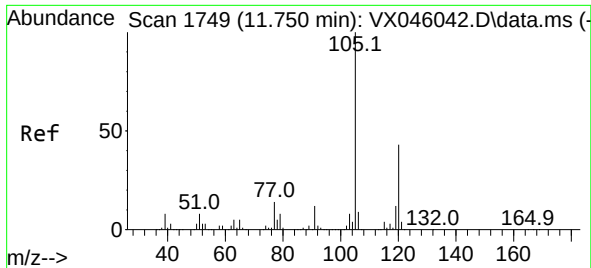
Tgt Ion: 75 Resp: 37820
Ion Ratio Lower Upper
75 100
77 1.6 20.5 61.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.593 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

Tgt Ion: 75 Resp: 37820
Ion Ratio Lower Upper
75 100
53 0.3 100.5 150.7#
89 0.0 37.0 55.6#

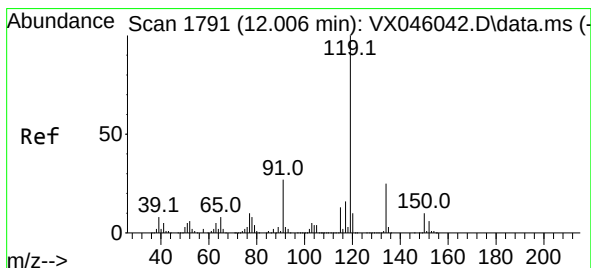
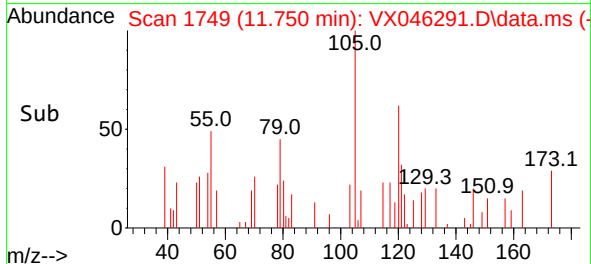
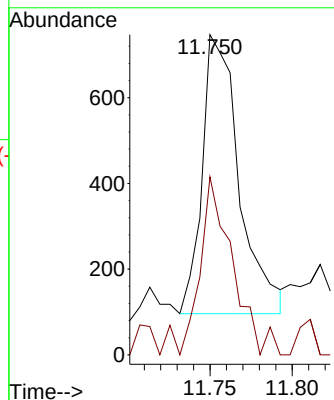
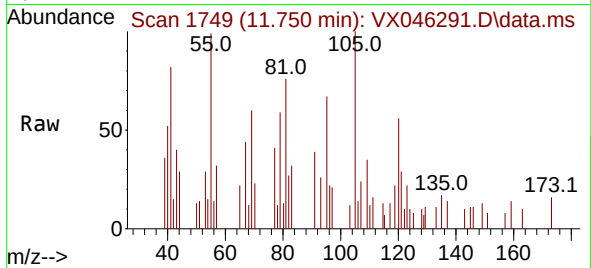




#84
1,2,4-Trimethylbenzene
Concen: 0.276 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

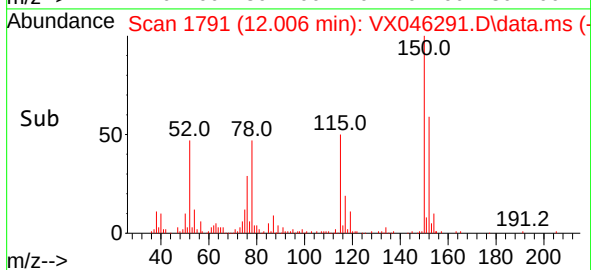
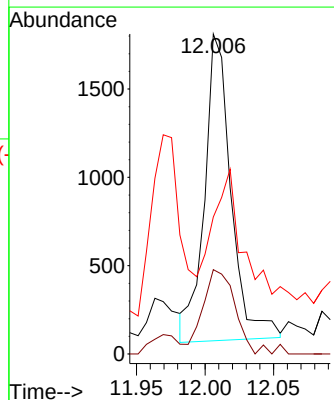
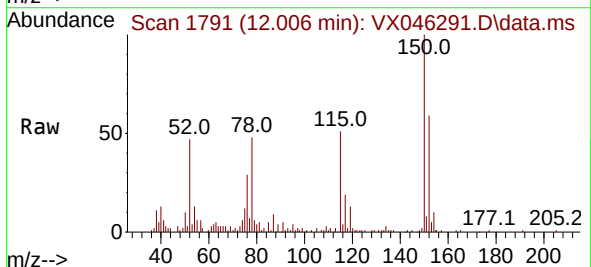
Instrument :
MSVOA_X
ClientSampleId :
WATER-COMP

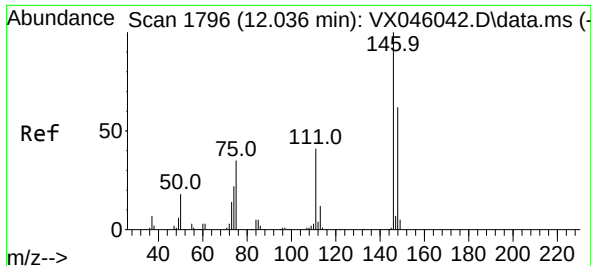
Tgt Ion:105 Resp: 1014
Ion Ratio Lower Upper
105 100
120 57.8 21.2 63.6



#86
p-Isopropyltoluene
Concen: 0.630 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046291.D
Acq: 21 May 2025 12:46

Tgt Ion:119 Resp: 2336
Ion Ratio Lower Upper
119 100
134 33.9 12.5 37.5
91 47.8 13.8 41.4#





#88

1,4-Dichlorobenzene

Concen: 0.268 ug/l

RT: 12.043 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX046291.D

Acq: 21 May 2025 12:46

Instrument :

MSVOA_X

ClientSampleId :

WATER-COMP

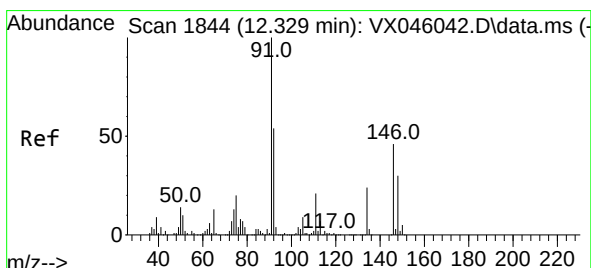
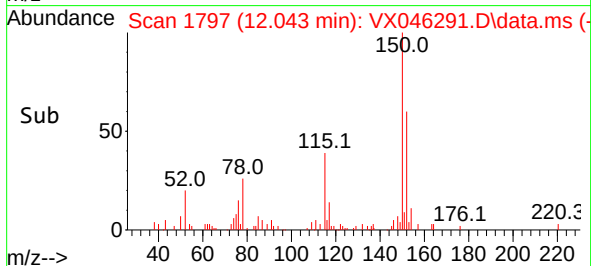
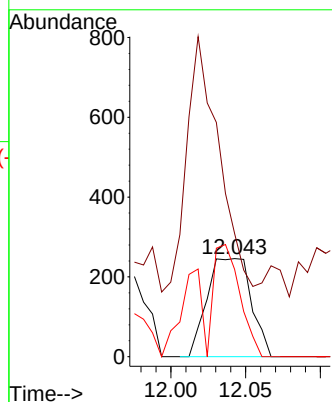
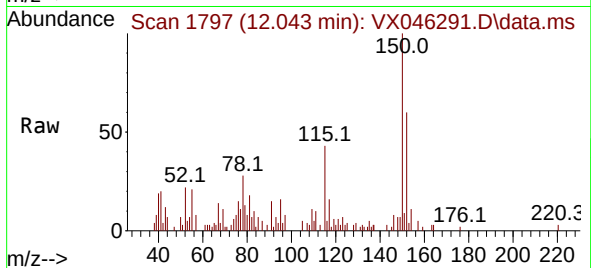
Tgt Ion:146 Resp: 504

Ion Ratio Lower Upper

146 100

111 0.0 21.3 63.9#

148 67.9 31.9 95.5



#89

n-Butylbenzene

Concen: 0.202 ug/l

RT: 12.238 min Scan# 1829

Delta R.T. -0.091 min

Lab File: VX046291.D

Acq: 21 May 2025 12:46

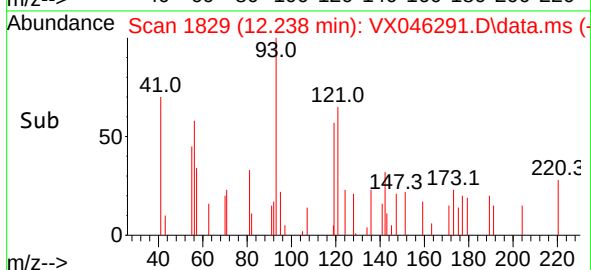
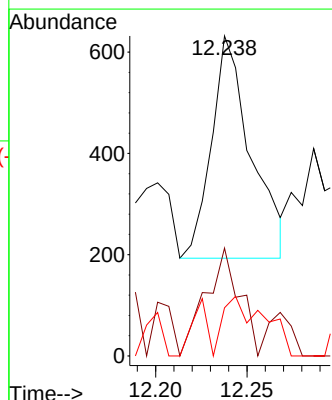
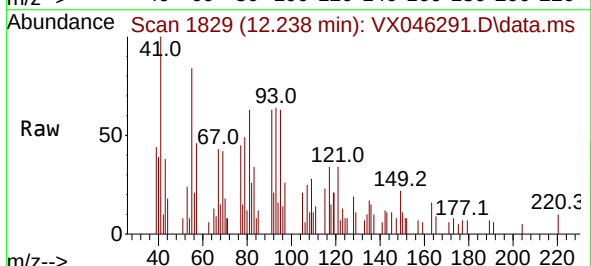
Tgt Ion: 91 Resp: 658

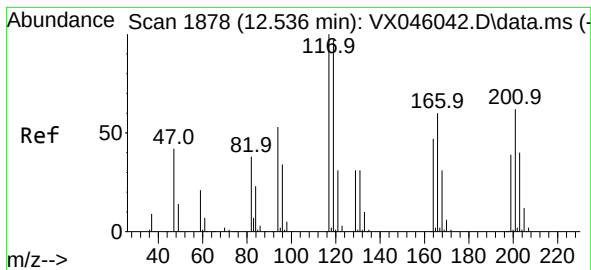
Ion Ratio Lower Upper

91 100

92 42.1 26.9 80.7

134 28.3 11.8 35.3





#90

Hexachloroethane

Concen: 0.239 ug/l

RT: 12.518 min Scan# 11

Delta R.T. -0.018 min

Lab File: VX046291.D

Acq: 21 May 2025 12:46

Instrument :

MSVOA_X

ClientSampleId :

WATER-COMP

Tgt Ion:117 Resp: 156

Ion Ratio Lower Upper

117 100

201 0.0 31.6 94.7#

