

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071425\
 Data File : VX046978.D
 Acq On : 14 Jul 2025 16:49
 Operator : JC/MD
 Sample : Q2578-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-A2-10-G

Quant Time: Jul 15 01:23:44 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)

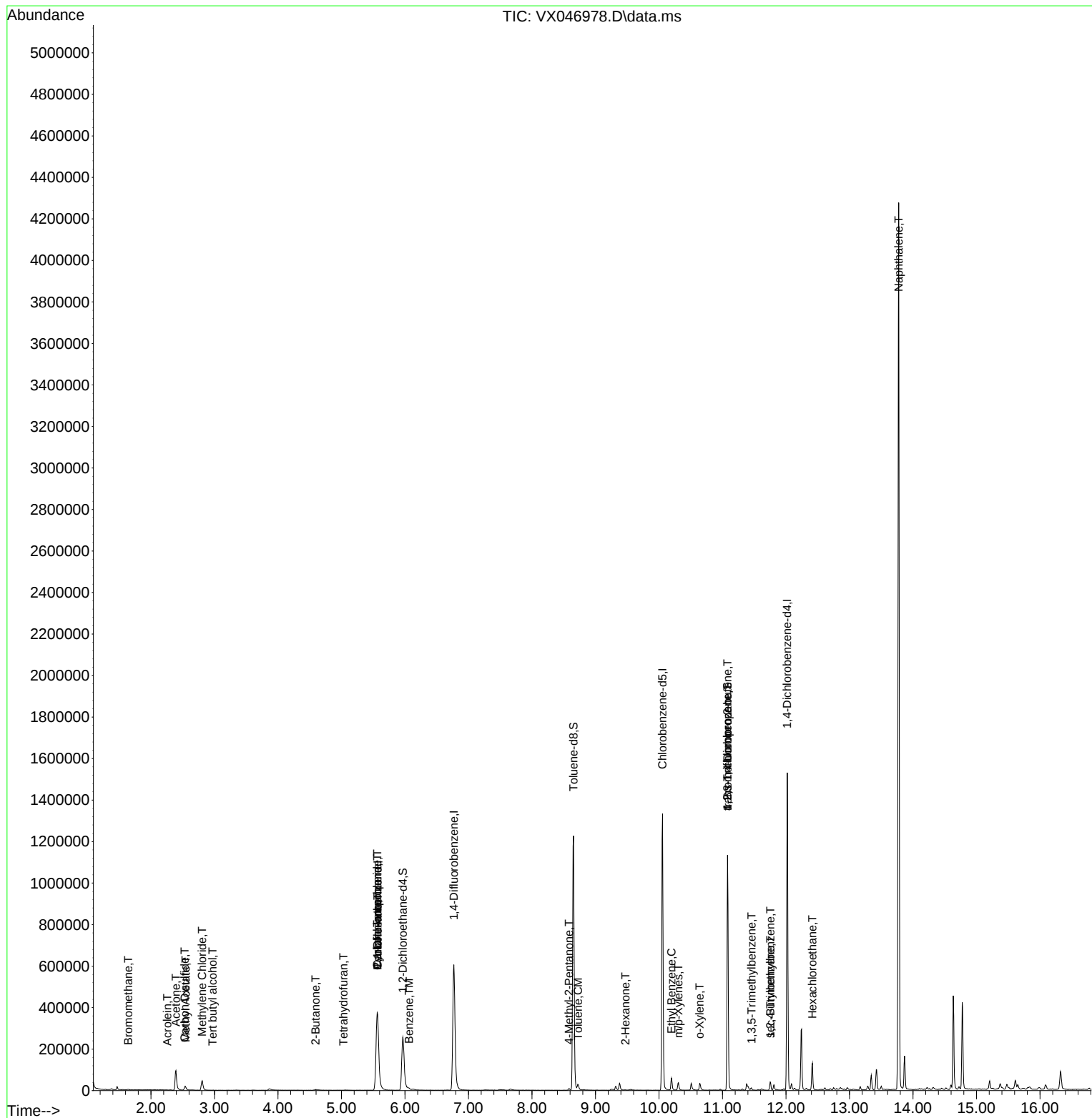
Internal Standards						
1) Pentafluorobenzene	5.568	168	382736	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	656056	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	592257	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	309717	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	268556	53.113	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 106.220%	
35) Dibromofluoromethane	5.410	113	62	0.014	ug/l	0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	= 0.020%#	
50) Toluene-d8	8.653	98	755896	48.109	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 96.220%	
62) 4-Bromofluorobenzene	11.079	95	308582	51.675	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 103.360%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.642	94	1138	0.407	ug/l #	69
11) Tert butyl alcohol	2.971	59	361	1.089	ug/l #	93
13) Acrolein	2.258	56	208	3.396	ug/l #	59
16) Acetone	2.392	43	115125	73.300	ug/l	98
17) Carbon Disulfide	2.532	76	3999	0.367	ug/l	99
18) Methyl Acetate	2.544	43	4919	1.188	ug/l #	53
20) Methylene Chloride	2.806	84	23740	5.112	ug/l	98
25) 2-Butanone	4.593	43	6971	3.327	ug/l #	85
29) Tetrahydrofuran	5.032	42	272	0.204	ug/l #	34
31) Cyclohexane	5.568	56	7967	1.102	ug/l #	1
36) 1,1-Dichloropropene	5.562	75	31304	5.210	ug/l #	49
38) Carbon Tetrachloride	5.562	117	39957	6.290	ug/l #	15
40) Benzene	6.062	78	10225	0.563	ug/l	100
51) 4-Methyl-2-Pentanone	8.580	43	5699	1.232	ug/l	99
52) Toluene	8.726	92	10392	0.923	ug/l	94
59) 2-Hexanone	9.470	43	1290	0.420	ug/l	72
67) Ethyl Benzene	10.195	91	36201	1.651	ug/l	97
68) m/p-Xylenes	10.305	106	9083	1.099	ug/l	91
69) o-Xylene	10.640	106	7280	0.912	ug/l	99
76) 1,2,3-Trichloropropane	11.079	75	159038	33.233	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.457	105	4898	0.277	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.079	75	159038	89.180	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.756	105	18417	1.030	ug/l	93
85) sec-Butylbenzene	11.756	105	18417	0.799	ug/l #	57
90) Hexachloroethane	12.415	117	4711	1.377	ug/l #	14
95) Naphthalene	13.774	128	2613851	148.558	ug/l	100

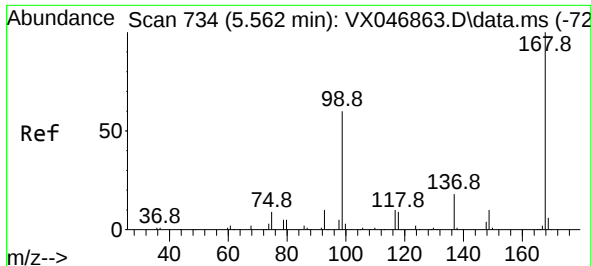
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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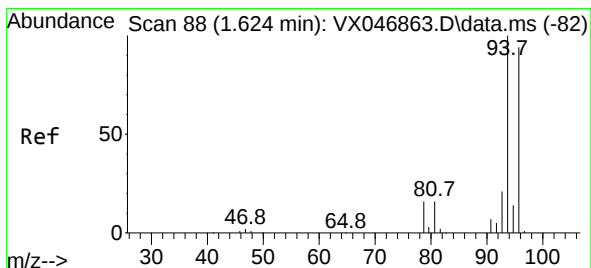
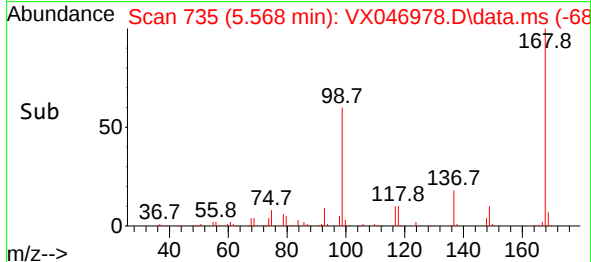
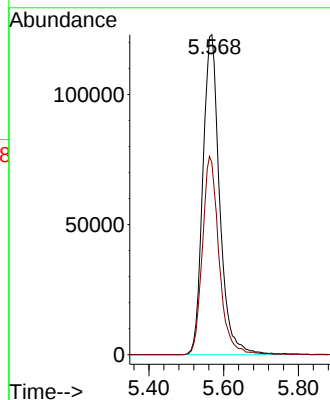
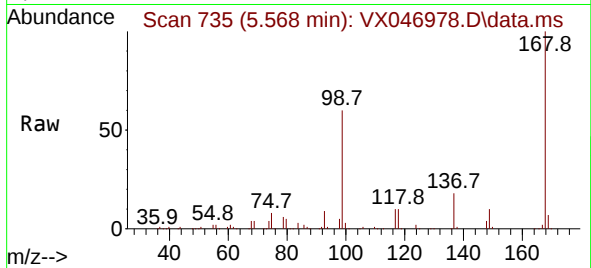




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

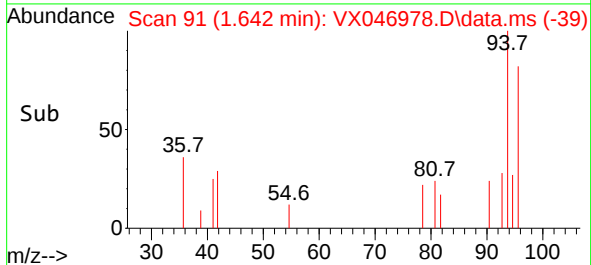
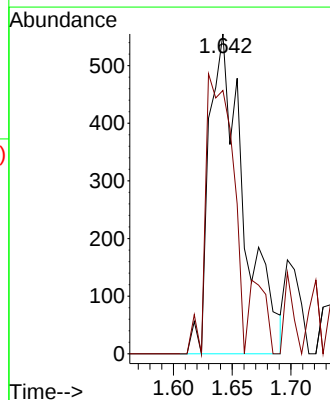
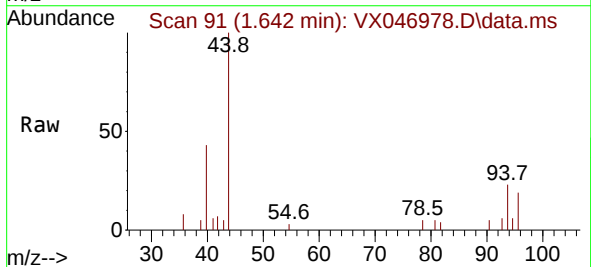
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-10-G

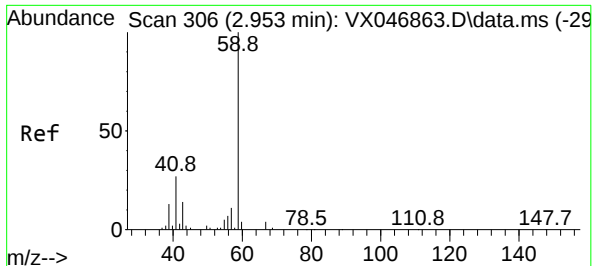
Tgt Ion:168 Resp: 382736
Ion Ratio Lower Upper
168 100
99 59.9 48.8 73.2



#5
Bromomethane
Concen: 0.407 ug/l
RT: 1.642 min Scan# 91
Delta R.T. 0.018 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Tgt Ion: 94 Resp: 1138
Ion Ratio Lower Upper
94 100
96 64.7 75.5 113.3#





#11

Tert butyl alcohol

Concen: 1.089 ug/l

RT: 2.971 min Scan# 309

Delta R.T. 0.018 min

Lab File: VX046978.D

Acq: 14 Jul 2025 16:49

Instrument :

MSVOA_X

ClientSampleId :

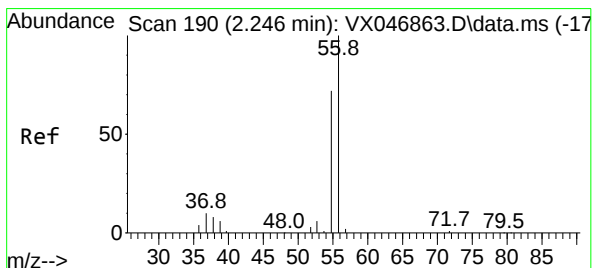
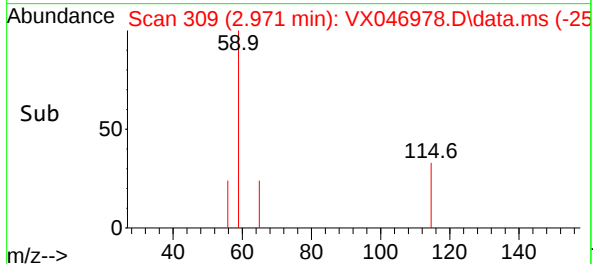
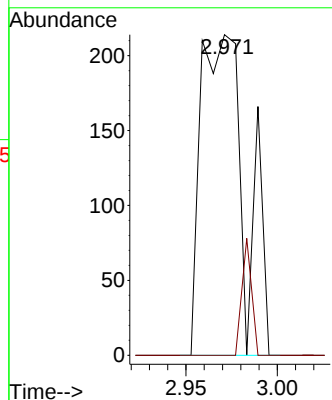
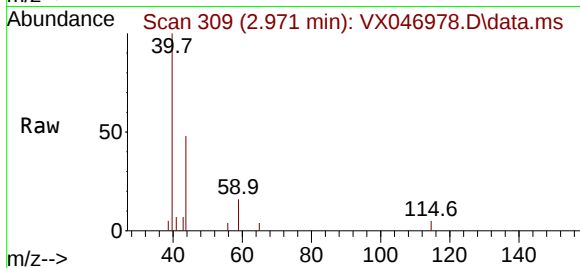
WC-A2-10-G

Tgt Ion: 59 Resp: 361

Ion Ratio Lower Upper

59 100

57 8.0 8.5 12.7#



#13

Acrolein

Concen: 3.396 ug/l

RT: 2.258 min Scan# 192

Delta R.T. 0.012 min

Lab File: VX046978.D

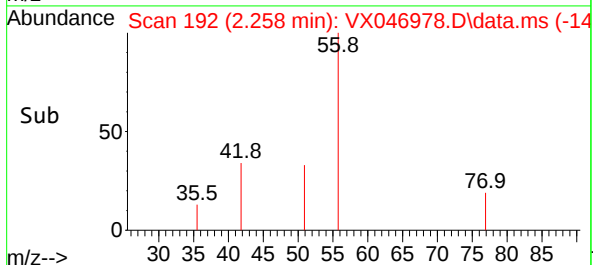
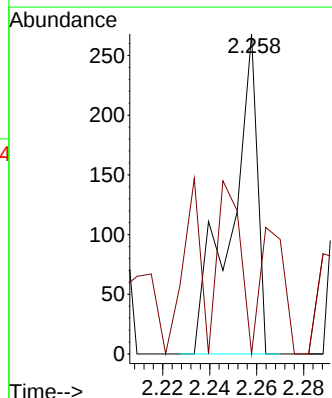
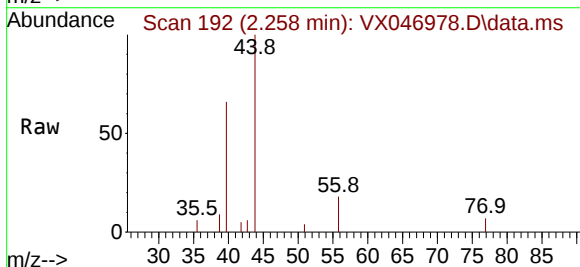
Acq: 14 Jul 2025 16:49

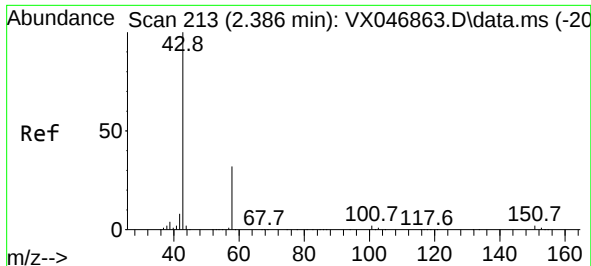
Tgt Ion: 56 Resp: 208

Ion Ratio Lower Upper

56 100

55 35.6 55.5 83.3#

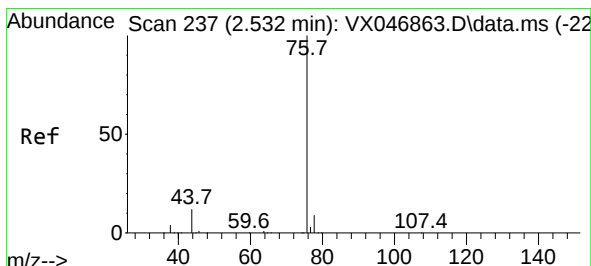
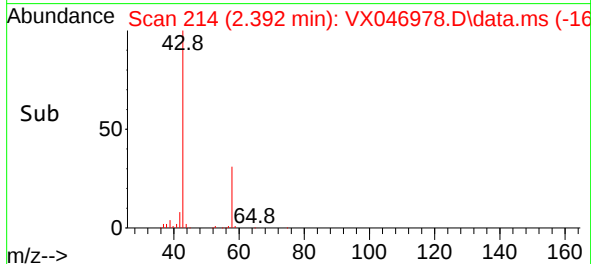
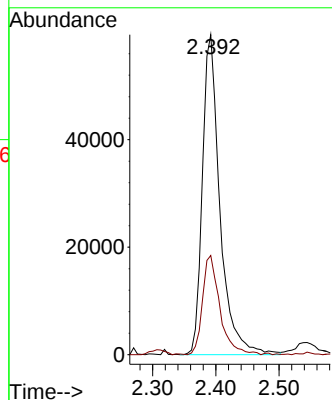
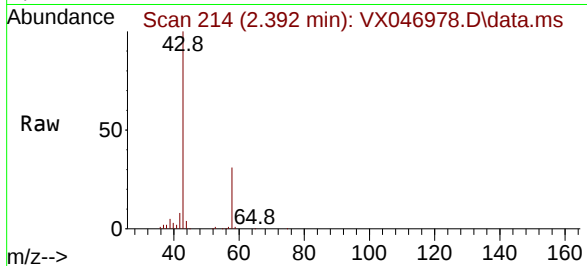




#16
Acetone
Concen: 73.300 ug/l
RT: 2.392 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

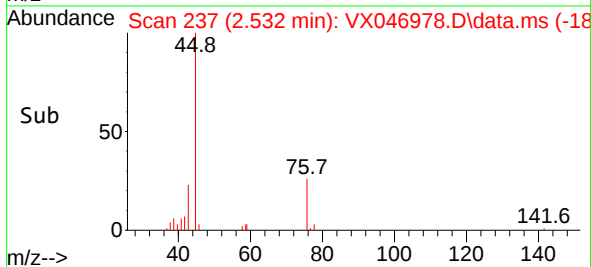
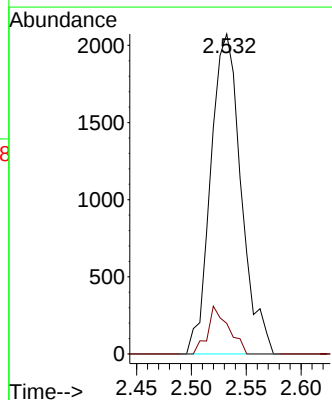
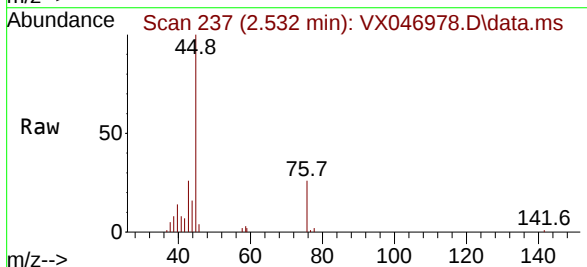
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-10-G

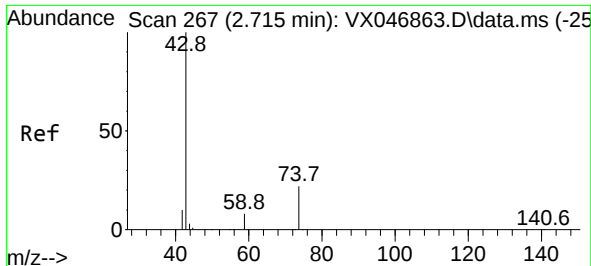
Tgt Ion: 43 Resp: 115125
Ion Ratio Lower Upper
43 100
58 30.9 25.8 38.6



#17
Carbon Disulfide
Concen: 0.367 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Tgt Ion: 76 Resp: 3999
Ion Ratio Lower Upper
76 100
78 9.5 7.4 11.2

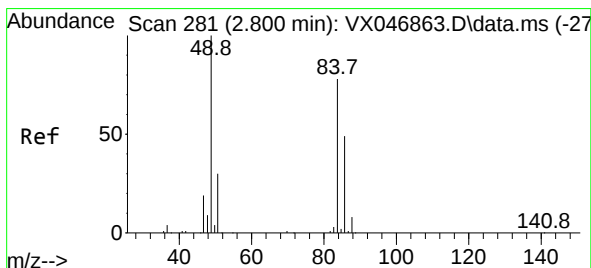
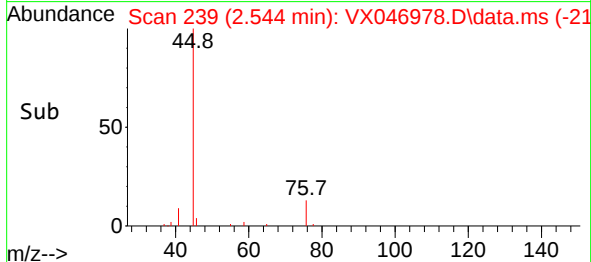
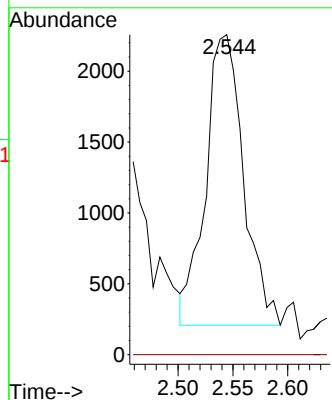
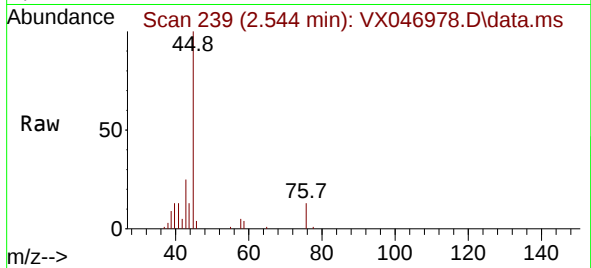




#18
Methyl Acetate
Concen: 1.188 ug/l
RT: 2.544 min Scan# 21
Delta R.T. -0.171 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

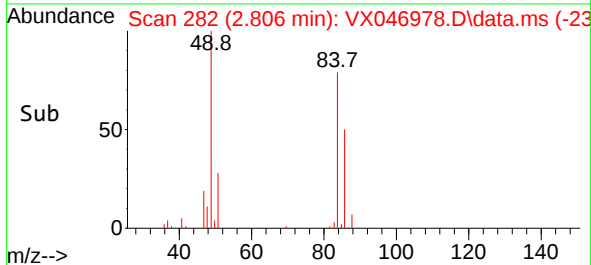
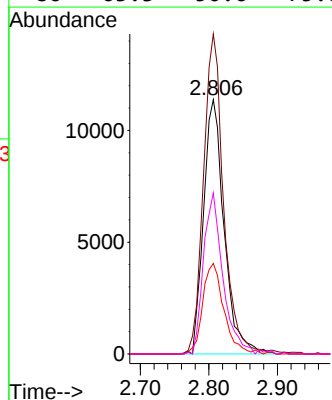
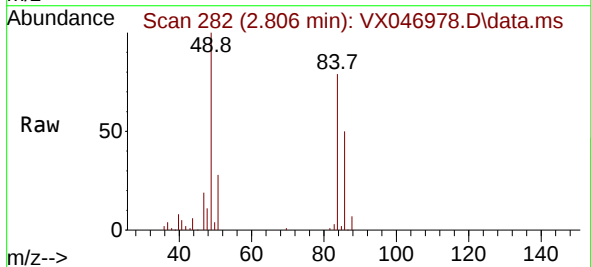
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-10-G

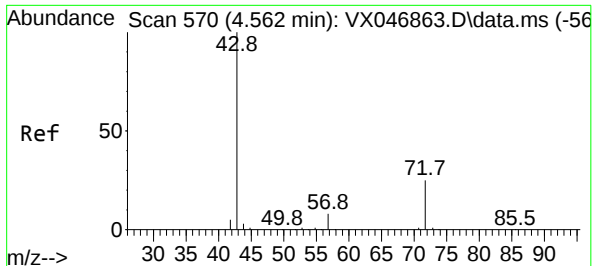
Tgt Ion: 43 Resp: 4919
Ion Ratio Lower Upper
43 100
74 0.0 18.3 27.5#



#20
Methylene Chloride
Concen: 5.112 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.006 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Tgt Ion: 84 Resp: 23740
Ion Ratio Lower Upper
84 100
49 125.8 102.8 154.2
51 35.6 31.1 46.7
86 63.3 50.6 75.8





#25

2-Butanone

Concen: 3.327 ug/l

RT: 4.593 min Scan# 51

Delta R.T. 0.031 min

Lab File: VX046978.D

Acq: 14 Jul 2025 16:49

Instrument :

MSVOA_X

ClientSampleId :

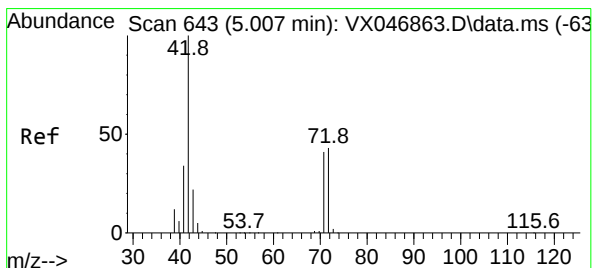
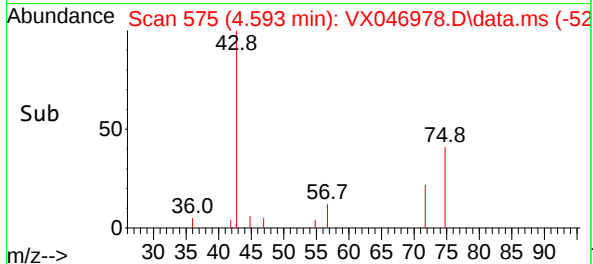
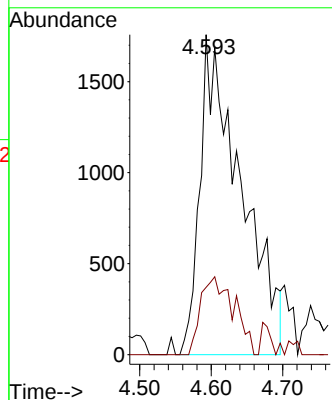
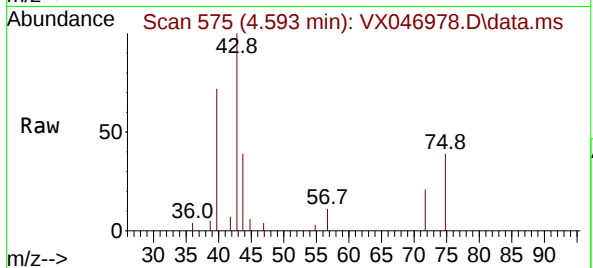
WC-A2-10-G

Tgt Ion: 43 Resp: 6971

Ion Ratio Lower Upper

43 100

72 17.7 20.0 30.0#



#29

Tetrahydrofuran

Concen: 0.204 ug/l

RT: 5.032 min Scan# 647

Delta R.T. 0.024 min

Lab File: VX046978.D

Acq: 14 Jul 2025 16:49

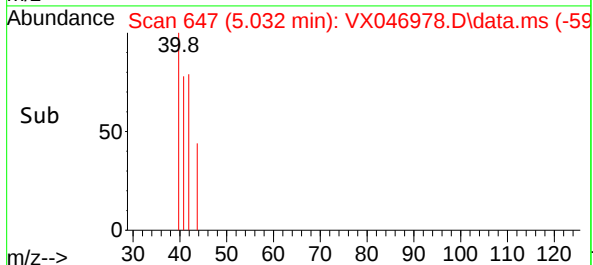
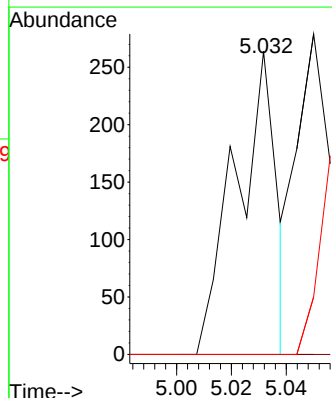
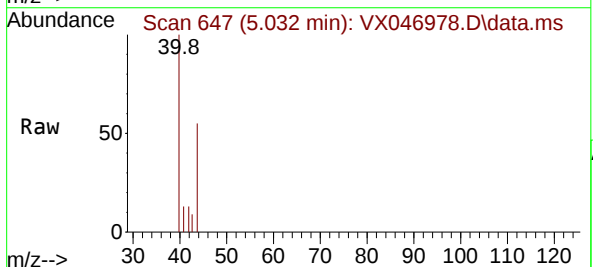
Tgt Ion: 42 Resp: 272

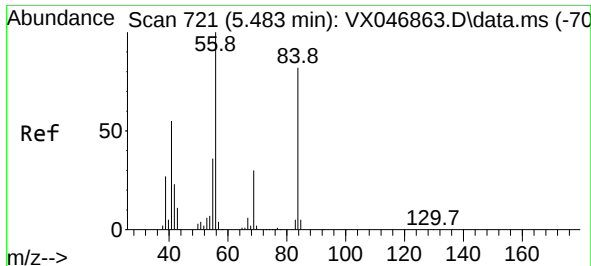
Ion Ratio Lower Upper

42 100

72 0.0 35.1 52.7#

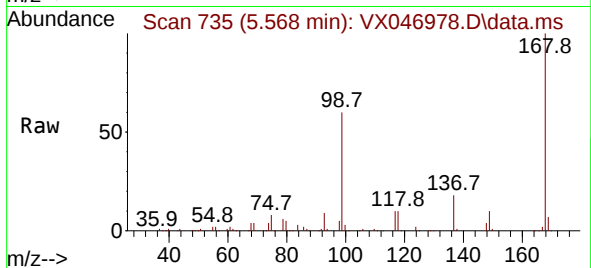
71 0.0 31.9 47.9#



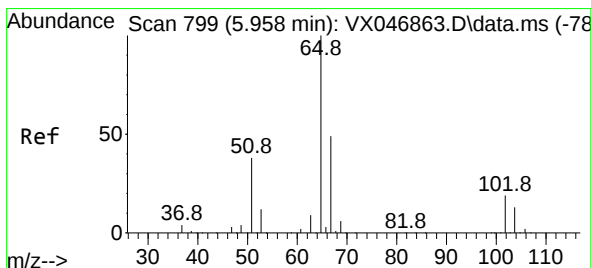
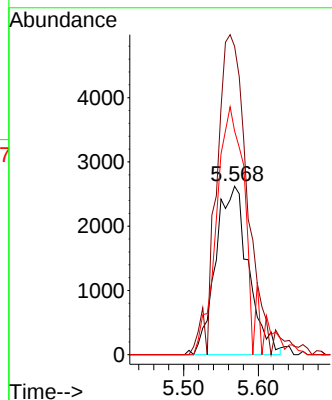
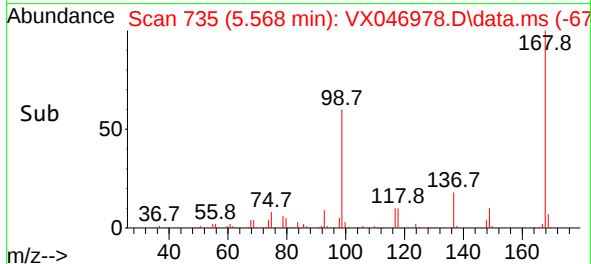


#31
Cyclohexane
Concen: 1.102 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.085 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Instrument :
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ClientSampleId :
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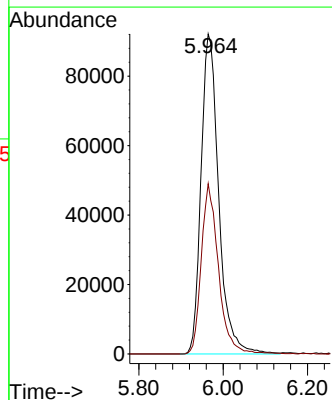
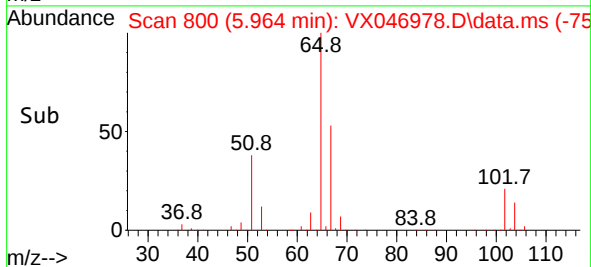
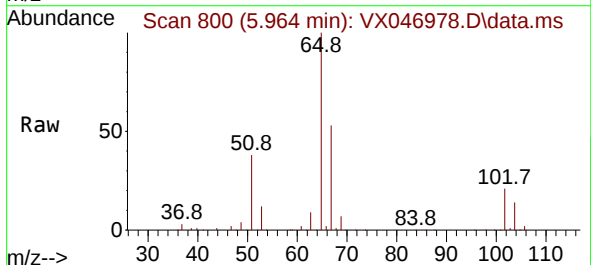


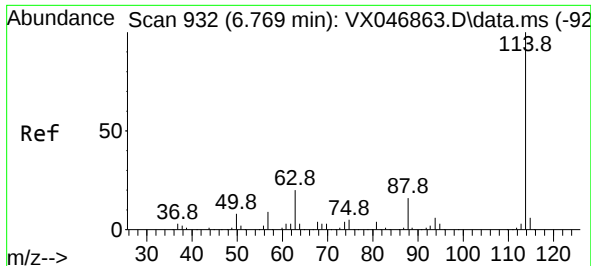
Tgt Ion: 56 Resp: 7967
Ion Ratio Lower Upper
56 100
69 182.9 24.0 36.0#
84 132.7 66.5 99.7#



#33
1,2-Dichloroethane-d4
Concen: 53.113 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.006 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Tgt Ion: 65 Resp: 268556
Ion Ratio Lower Upper
65 100
67 51.9 0.0 105.2

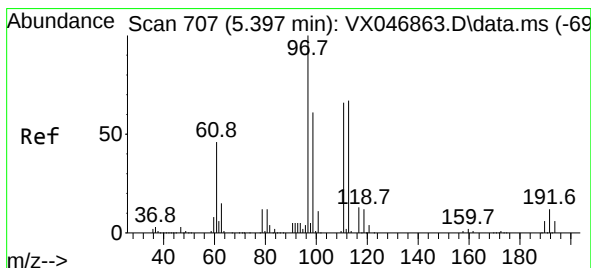
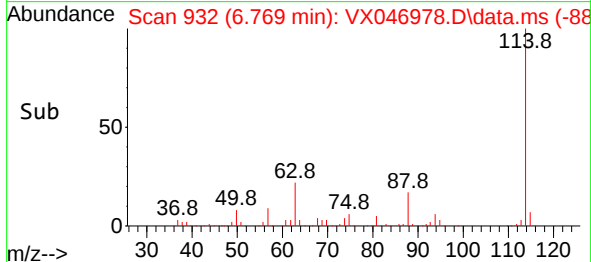
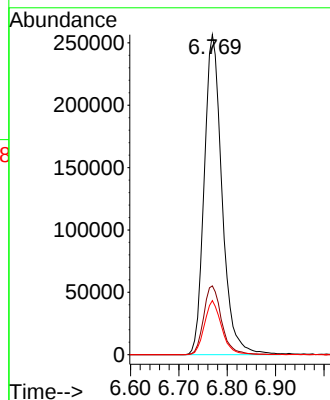
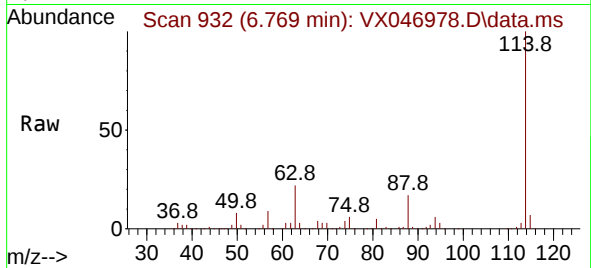




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

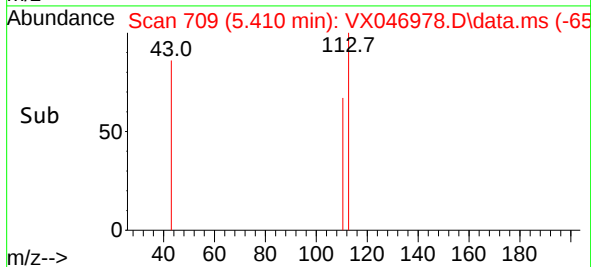
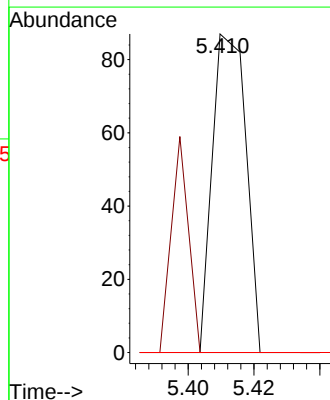
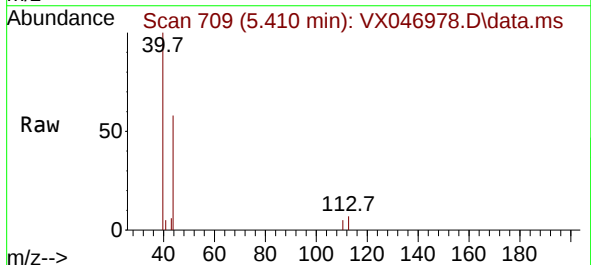
Instrument :
MSVOA_X
ClientSampleId :
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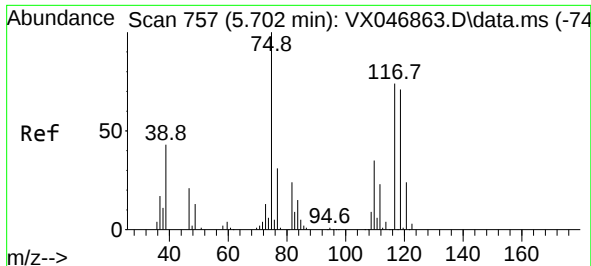
Tgt Ion:114 Resp: 656056
Ion Ratio Lower Upper
114 100
63 21.5 0.0 40.4
88 16.9 0.0 31.0



#35
Dibromofluoromethane
Concen: 0.014 ug/l
RT: 5.410 min Scan# 709
Delta R.T. 0.012 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Tgt Ion:113 Resp: 62
Ion Ratio Lower Upper
113 100
111 0.0 81.2 121.8#
192 0.0 15.3 22.9#





#36

1,1-Dichloropropene

Concen: 5.210 ug/l

RT: 5.562 min Scan# 71

Delta R.T. -0.140 min

Lab File: VX046978.D

Acq: 14 Jul 2025 16:49

Instrument :

MSVOA_X

ClientSampleId :

WC-A2-10-G

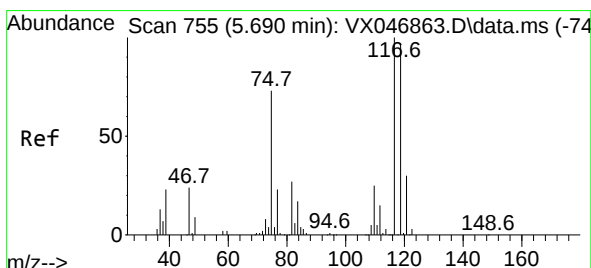
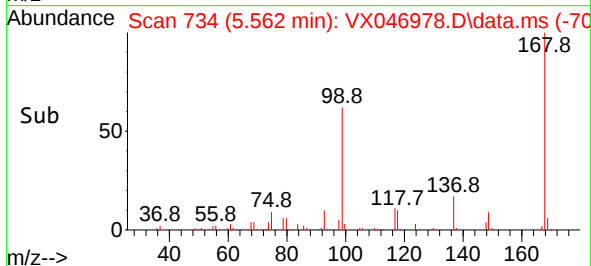
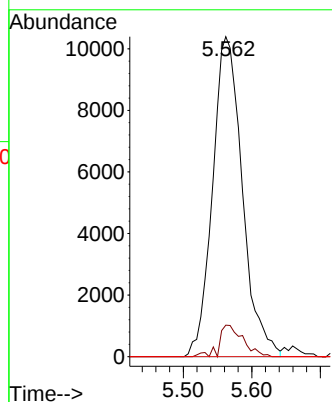
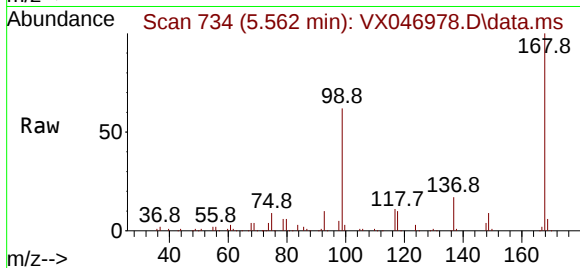
Tgt Ion: 75 Resp: 31304

Ion Ratio Lower Upper

75 100

110 7.5 17.3 51.9#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 6.290 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.128 min

Lab File: VX046978.D

Acq: 14 Jul 2025 16:49

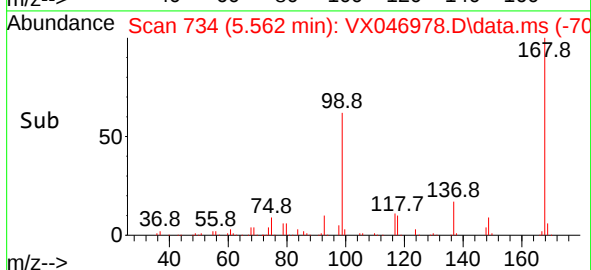
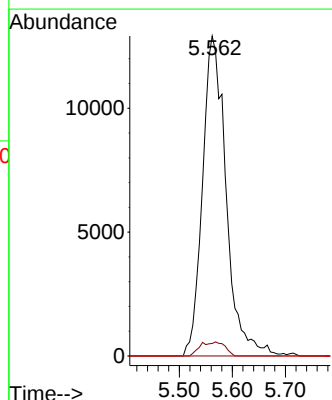
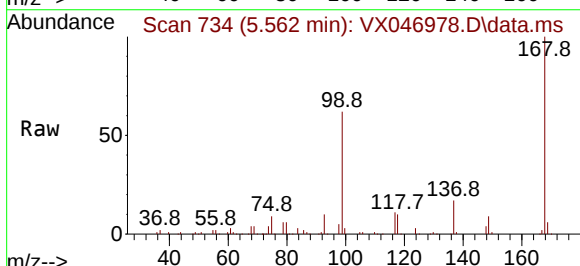
Tgt Ion: 117 Resp: 39957

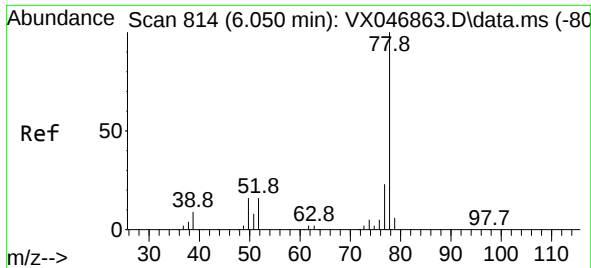
Ion Ratio Lower Upper

117 100

119 3.9 76.6 114.8#

121 0.0 24.1 36.1#

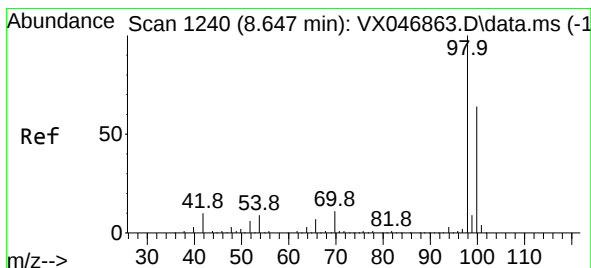
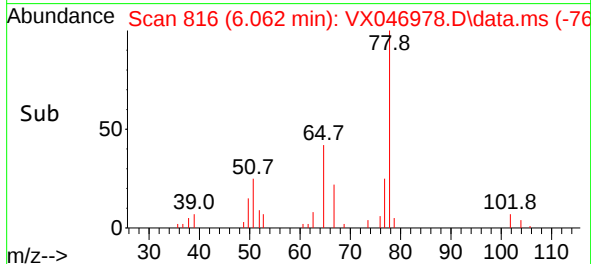
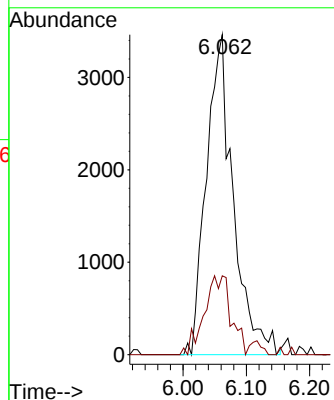
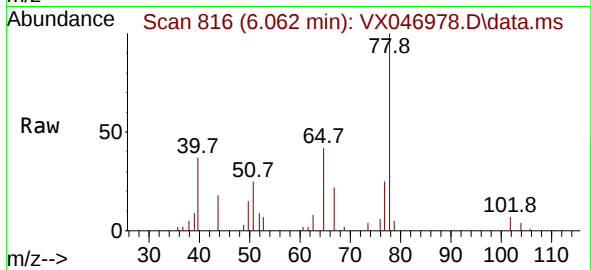




#40
Benzene
Concen: 0.563 ug/l
RT: 6.062 min Scan# 814
Delta R.T. 0.012 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

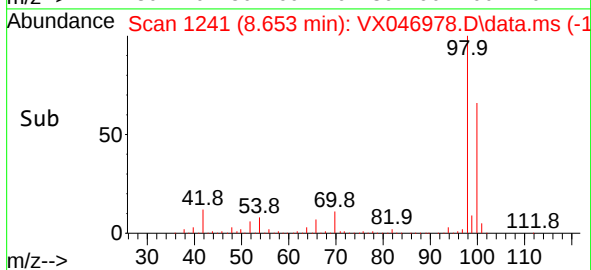
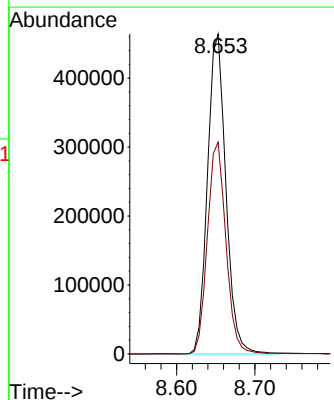
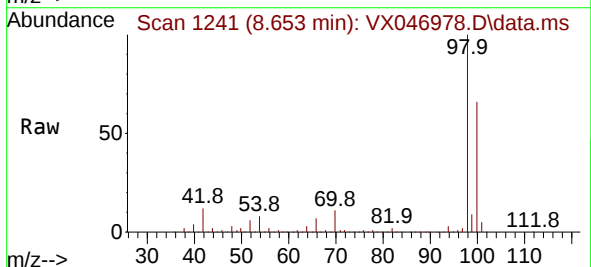
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-10-G

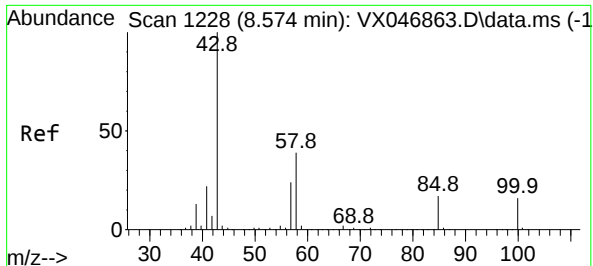
Tgt Ion: 78 Resp: 10225
Ion Ratio Lower Upper
78 100
77 23.5 18.7 28.1



#50
Toluene-d8
Concen: 48.109 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.006 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Tgt Ion: 98 Resp: 755896
Ion Ratio Lower Upper
98 100
100 66.6 53.0 79.6

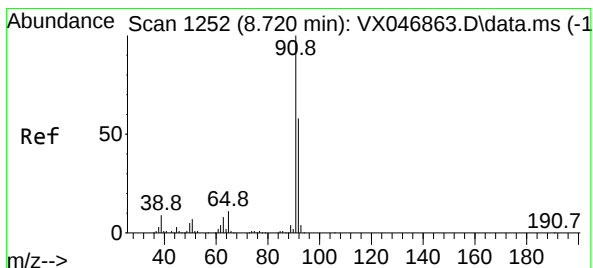
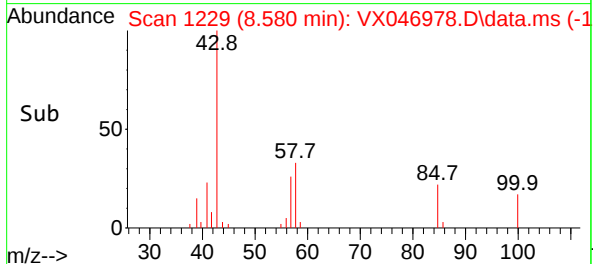
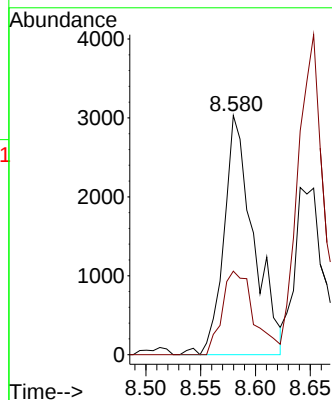
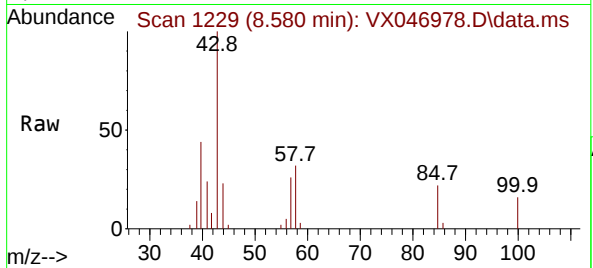




#51
4-Methyl-2-Pentanone
Concen: 1.232 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

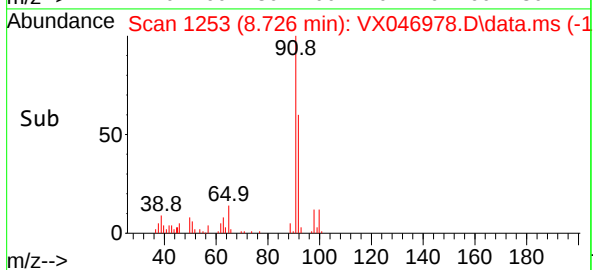
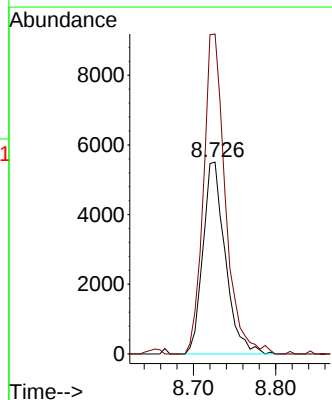
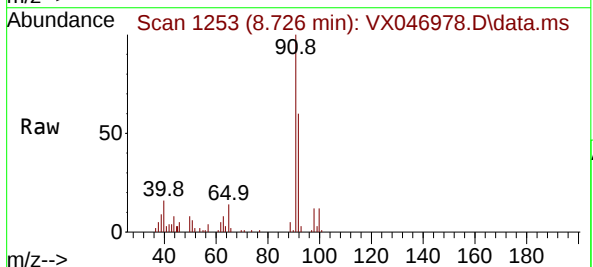
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-10-G

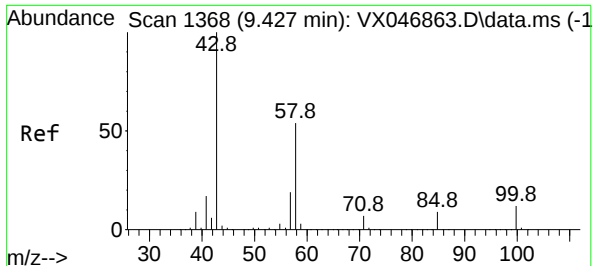
Tgt Ion: 43 Resp: 5699
Ion Ratio Lower Upper
43 100
58 37.7 30.4 45.6



#52
Toluene
Concen: 0.923 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Tgt Ion: 92 Resp: 10392
Ion Ratio Lower Upper
92 100
91 163.9 137.9 206.9





#59

2-Hexanone

Concen: 0.420 ug/l

RT: 9.470 min Scan# 11

Delta R.T. 0.043 min

Lab File: VX046978.D

Acq: 14 Jul 2025 16:49

Instrument :

MSVOA_X

ClientSampleId :

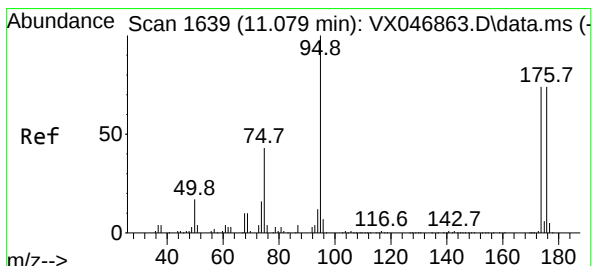
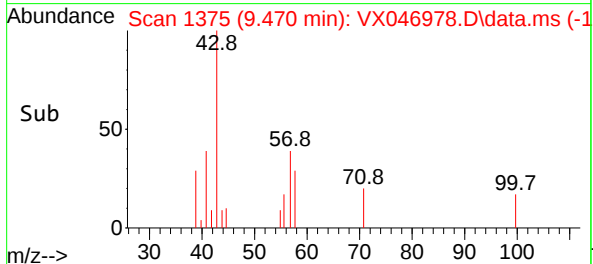
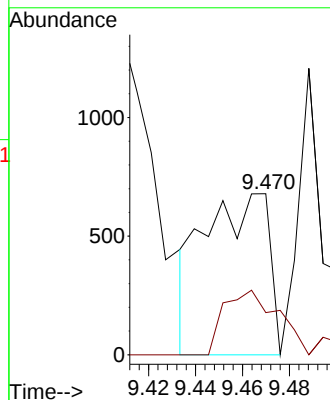
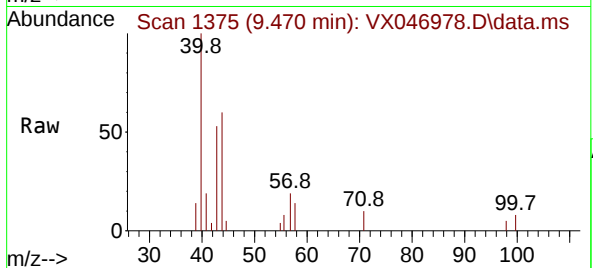
WC-A2-10-G

Tgt Ion: 43 Resp: 1290

Ion Ratio Lower Upper

43 100

58 33.8 27.1 81.3



#62

4-Bromofluorobenzene

Concen: 51.675 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046978.D

Acq: 14 Jul 2025 16:49

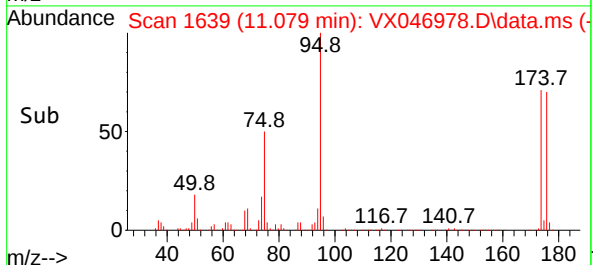
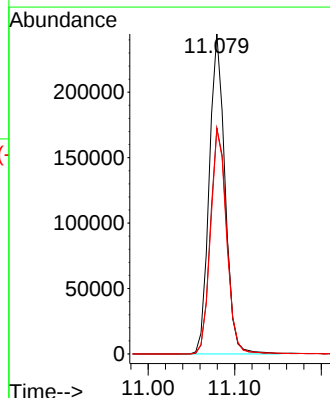
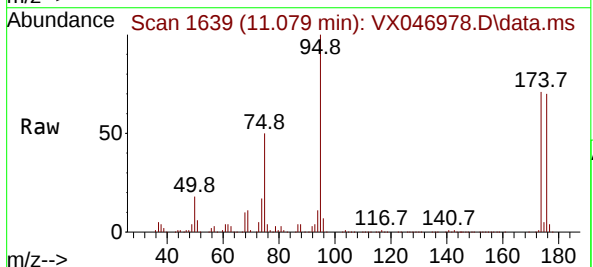
Tgt Ion: 95 Resp: 308582

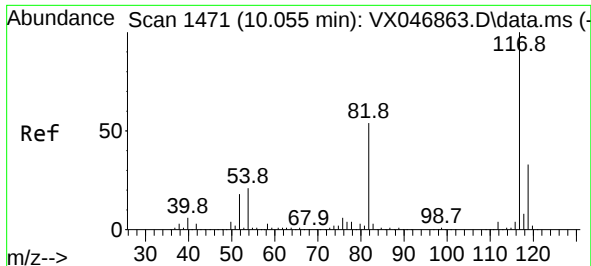
Ion Ratio Lower Upper

95 100

174 73.6 0.0 152.0

176 71.6 0.0 145.2

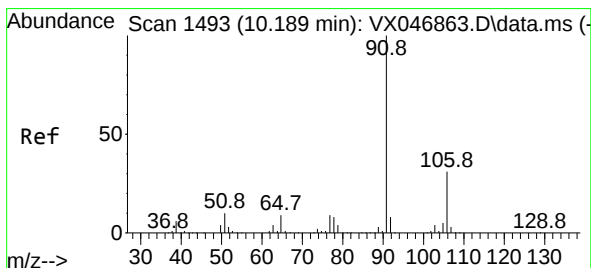
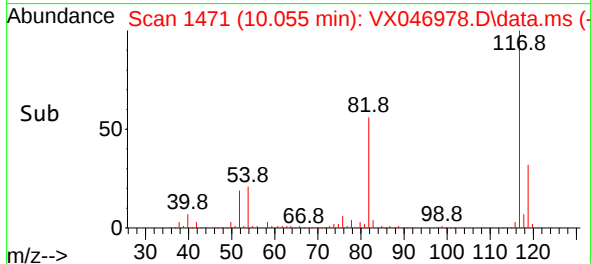
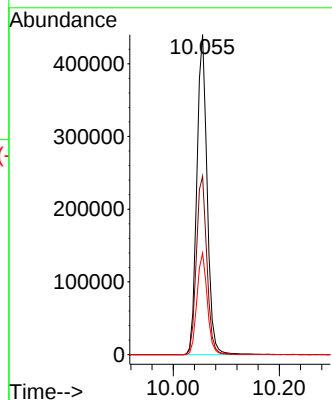
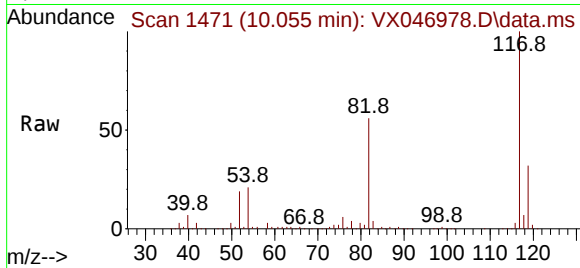




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

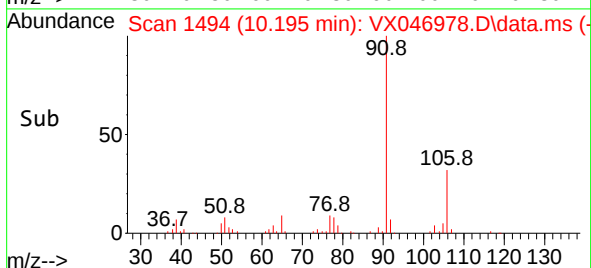
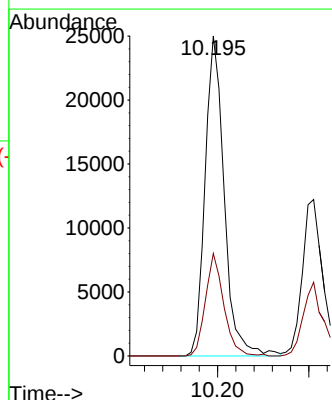
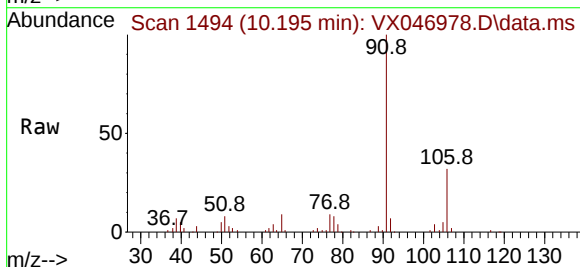
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-10-G

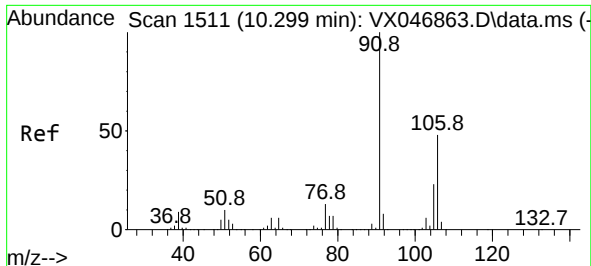
Tgt Ion:117 Resp: 592257
Ion Ratio Lower Upper
117 100
82 55.8 43.3 64.9
119 31.8 26.4 39.6



#67
Ethyl Benzene
Concen: 1.651 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Tgt Ion: 91 Resp: 36201
Ion Ratio Lower Upper
91 100
106 32.0 24.4 36.6

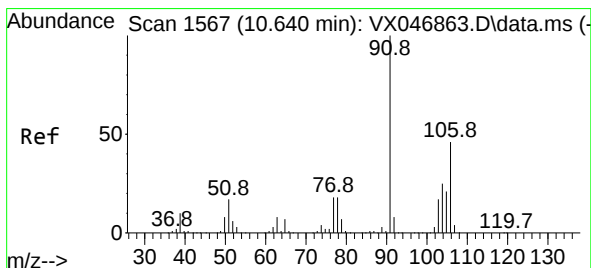
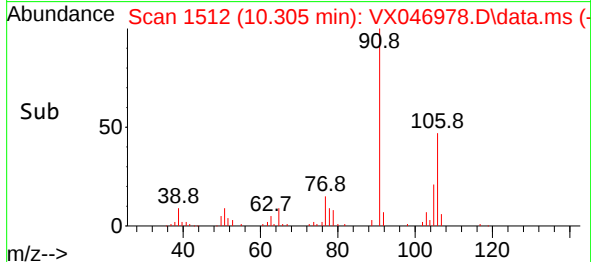
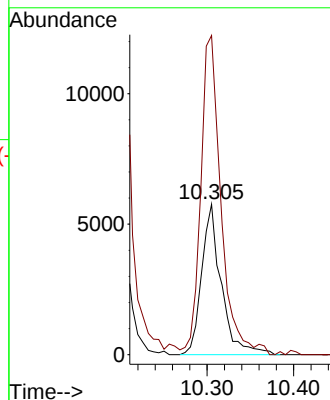
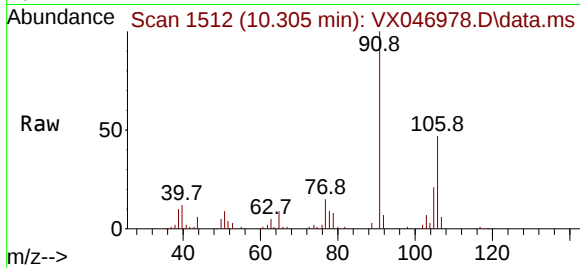




#68
m/p-Xylenes
Concen: 1.099 ug/l
RT: 10.305 min Scan# 1511
Delta R.T. 0.006 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

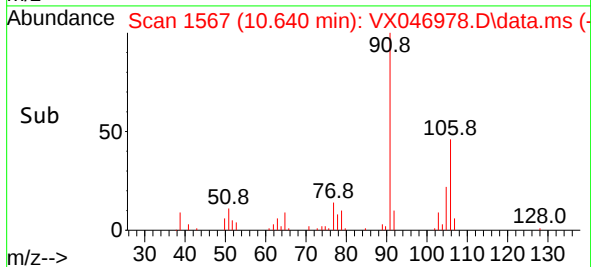
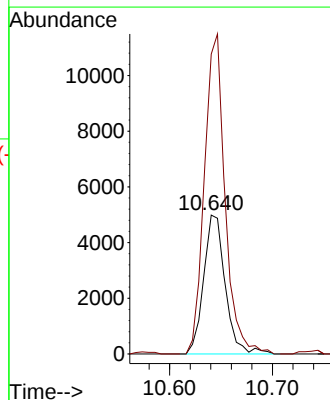
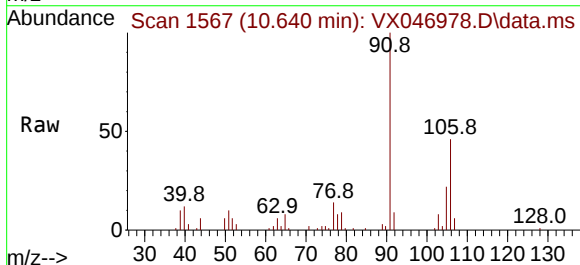
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-10-G

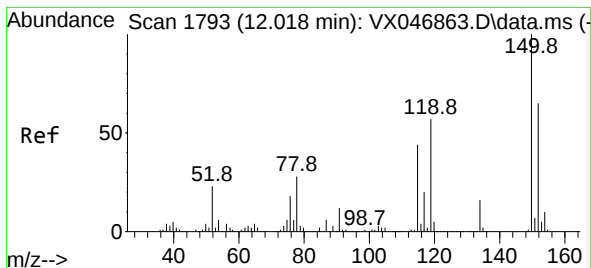
Tgt Ion:106 Resp: 9083
Ion Ratio Lower Upper
106 100
91 219.0 164.6 246.8



#69
o-Xylene
Concen: 0.912 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Tgt Ion:106 Resp: 7280
Ion Ratio Lower Upper
106 100
91 220.5 109.5 328.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046978.D

Acq: 14 Jul 2025 16:49

Instrument :

MSVOA_X

ClientSampleId :

WC-A2-10-G

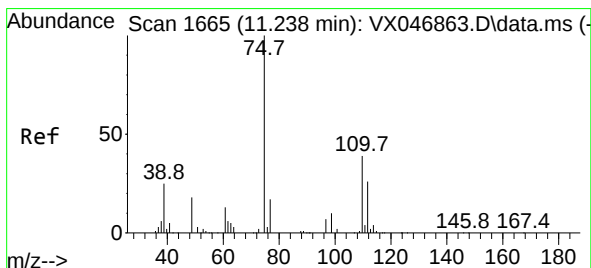
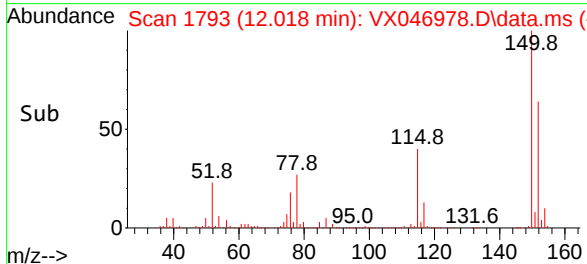
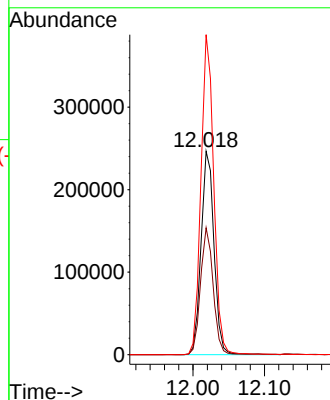
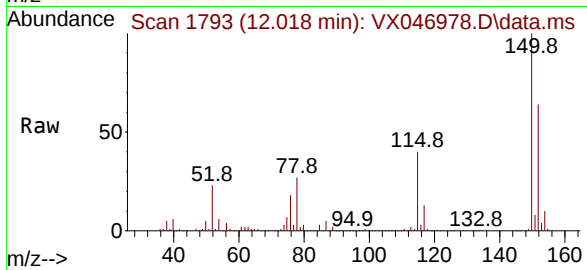
Tgt Ion:152 Resp: 309717

Ion Ratio Lower Upper

152 100

115 60.8 42.4 127.1

150 155.1 0.0 349.2



#76

1,2,3-Trichloropropane

Concen: 33.233 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX046978.D

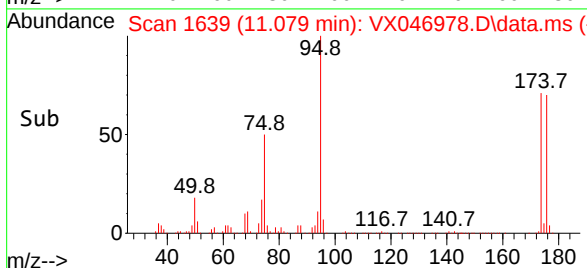
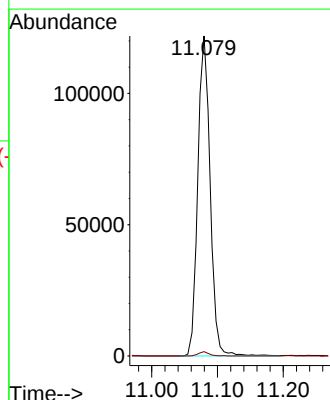
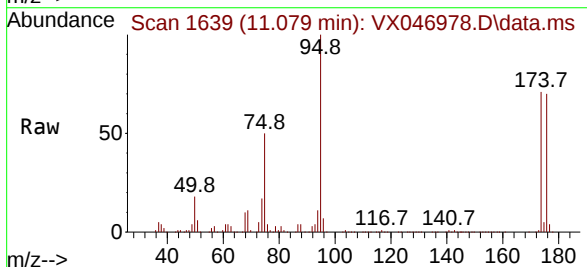
Acq: 14 Jul 2025 16:49

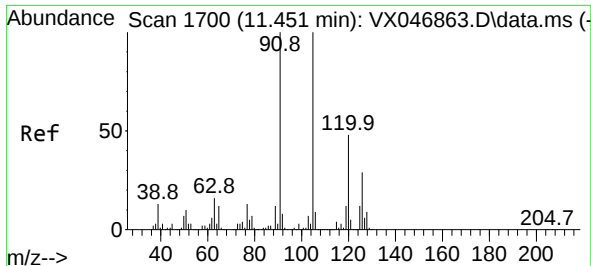
Tgt Ion: 75 Resp: 159038

Ion Ratio Lower Upper

75 100

77 1.2 20.6 61.8#

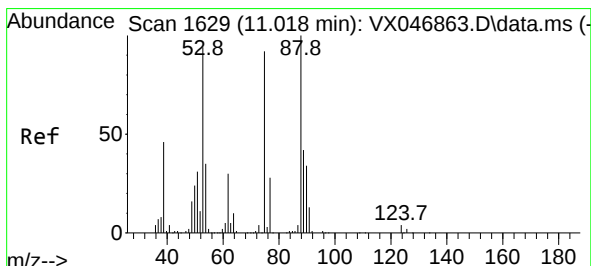
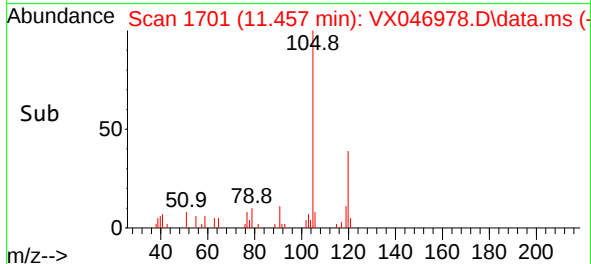
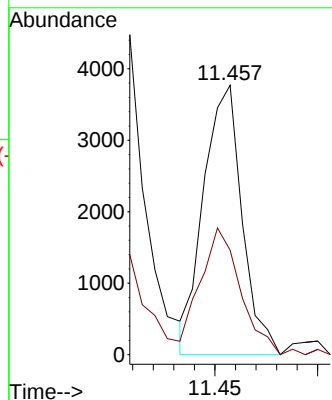
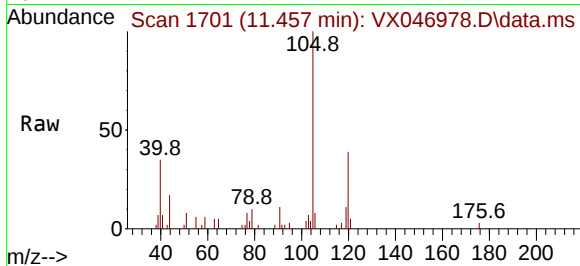




#80
1,3,5-Trimethylbenzene
Concen: 0.277 ug/l
RT: 11.457 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

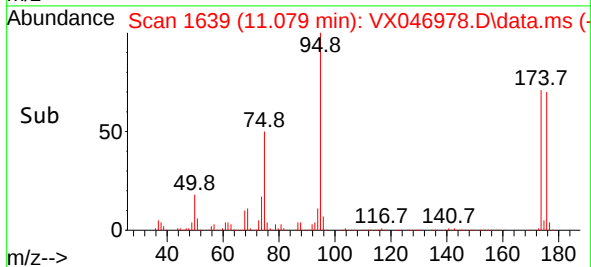
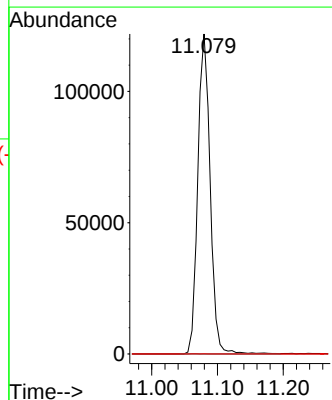
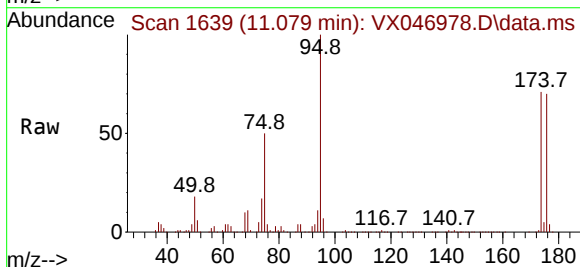
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-10-G

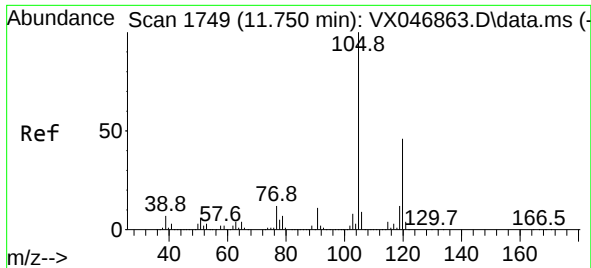
Tgt Ion:105 Resp: 4898
Ion Ratio Lower Upper
105 100
120 50.1 24.1 72.4



#81
trans-1,4-Dichloro-2-butene
Concen: 89.180 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Tgt Ion: 75 Resp: 159038
Ion Ratio Lower Upper
75 100
53 0.0 83.7 125.5#
89 0.0 38.2 57.2#

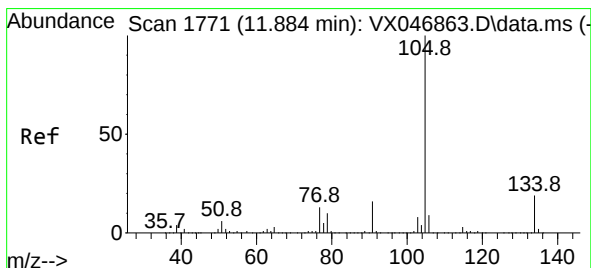
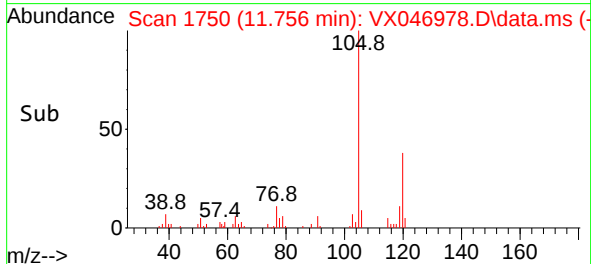
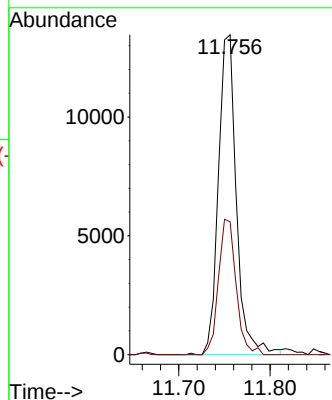
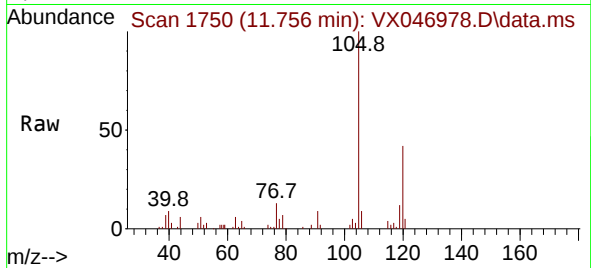




#84
1,2,4-Trimethylbenzene
Concen: 1.030 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

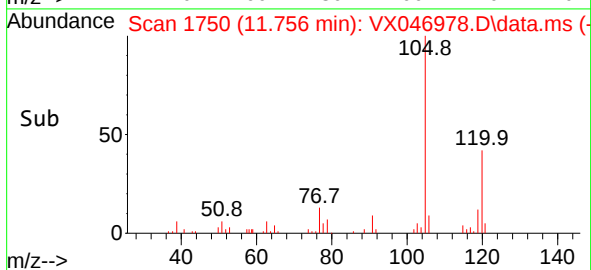
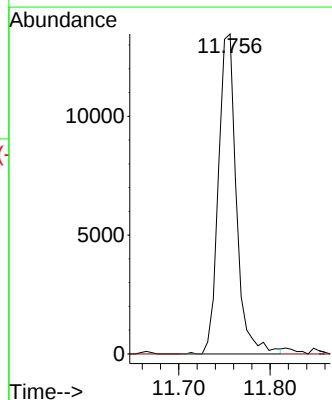
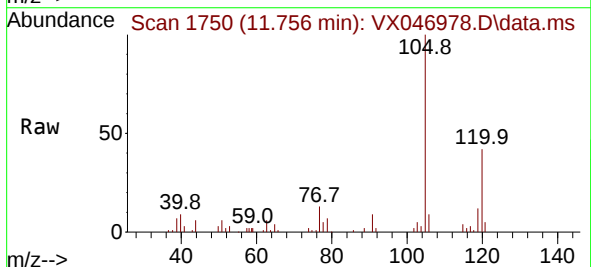
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-10-G

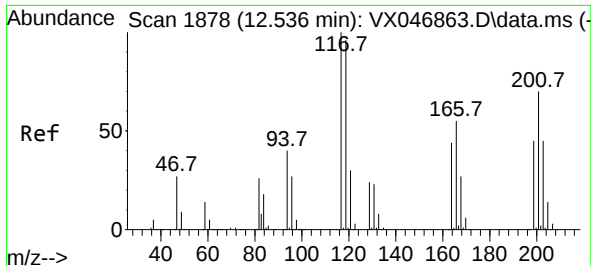
Tgt Ion:105 Resp: 18417
Ion Ratio Lower Upper
105 100
120 41.7 23.3 69.8



#85
sec-Butylbenzene
Concen: 0.799 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. -0.128 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Tgt Ion:105 Resp: 18417
Ion Ratio Lower Upper
105 100
134 0.0 9.9 29.7#

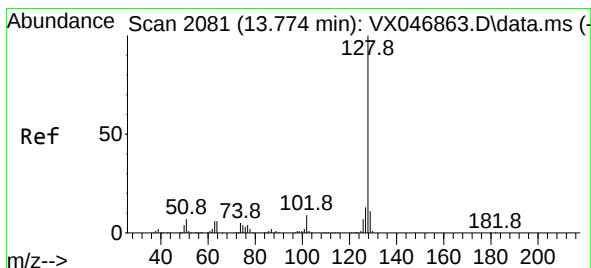
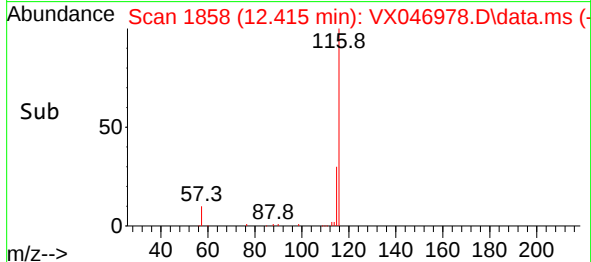
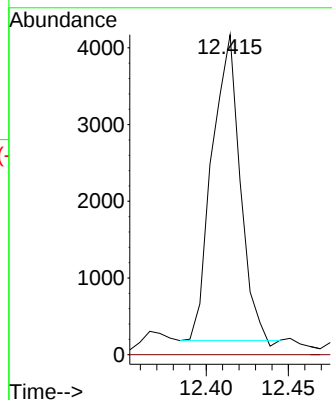
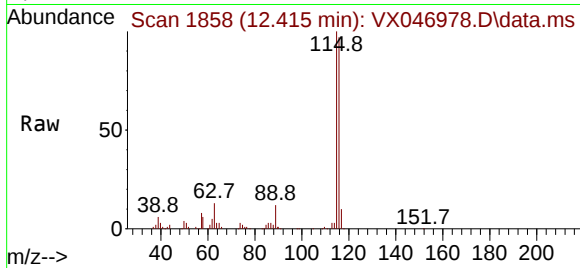




#90
Hexachloroethane
Concen: 1.377 ug/l
RT: 12.415 min Scan# 1878
Delta R.T. -0.122 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Instrument :
MSVOA_X
ClientSampleId :
WC-A2-10-G

Tgt Ion:117 Resp: 4711
Ion Ratio Lower Upper
117 100
201 0.0 35.8 107.4#



#95
Naphthalene
Concen: 148.558 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX046978.D
Acq: 14 Jul 2025 16:49

Tgt Ion:128 Resp: 2613851
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 10.9 8.6 13.0

