

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071425\
 Data File : VX046980.D
 Acq On : 14 Jul 2025 17:31
 Operator : JC/MD
 Sample : Q2578-17
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-A2-12-G

Quant Time: Jul 15 01:24:42 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)

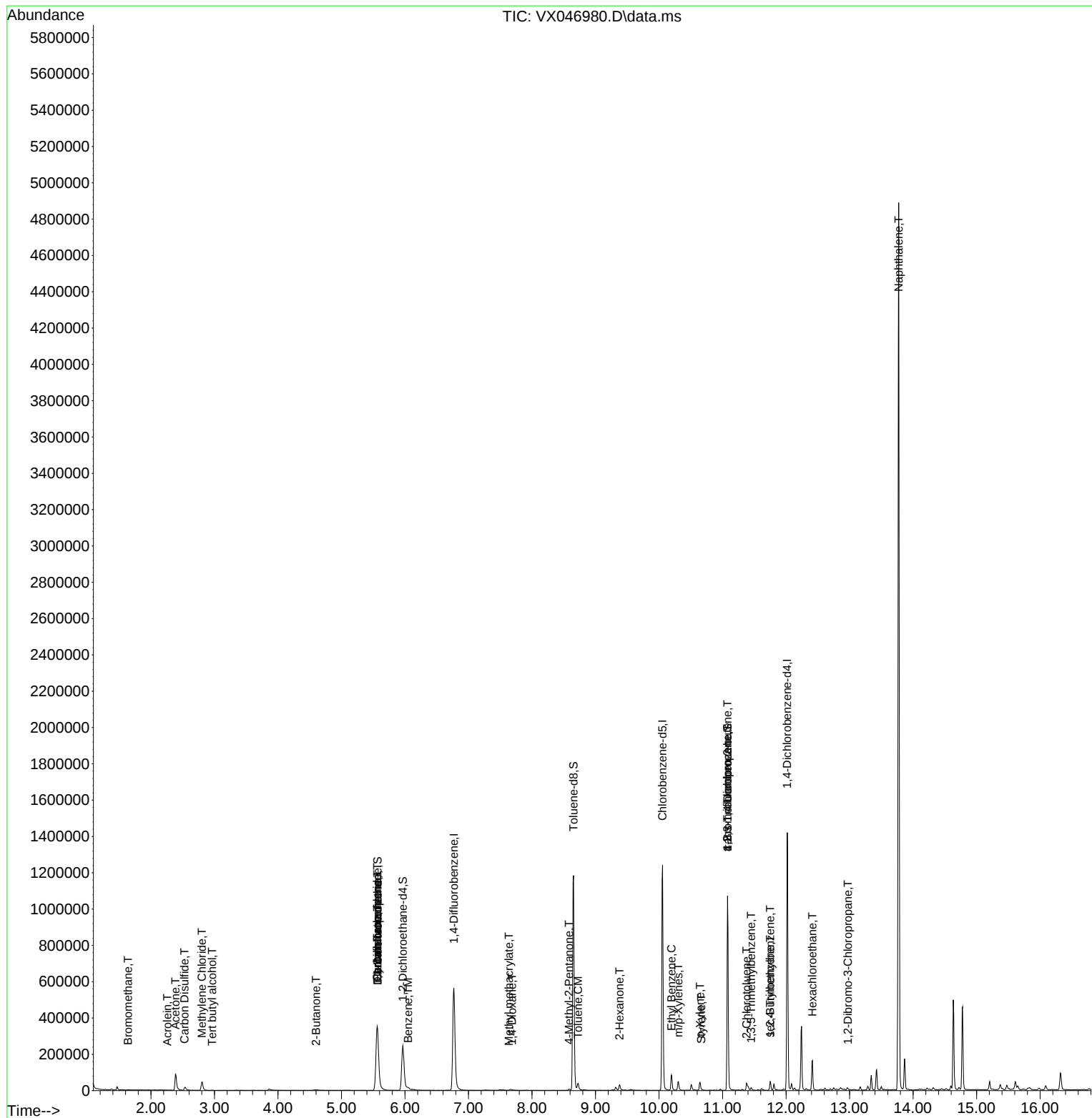
Internal Standards						
1) Pentafluorobenzene	5.562	168	357839	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	618206	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	560151	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	295784	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	254241	53.780	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.560%			
35) Dibromofluoromethane	5.568	113	895	0.213	ug/l	0.17
Spiked Amount 50.000	Range 75 - 124		Recovery = 0.420%#			
50) Toluene-d8	8.653	98	722392	48.791	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 97.580%			
62) 4-Bromofluorobenzene	11.079	95	293199	52.105	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.220%			
Target Compounds						Qvalue
5) Bromomethane	1.636	94	1120	0.428	ug/l	84
11) Tert butyl alcohol	2.965	59	515	1.661	ug/l #	72
13) Acrolein	2.257	56	217	3.461	ug/l	95
16) Acetone	2.385	43	111579	75.985	ug/l	96
17) Carbon Disulfide	2.526	76	3455	0.340	ug/l	99
20) Methylene Chloride	2.800	84	23684	5.454	ug/l	91
25) 2-Butanone	4.598	43	6228	3.179	ug/l	90
31) Cyclohexane	5.562	56	7346	1.087	ug/l #	1
36) 1,1-Dichloropropene	5.568	75	29786	5.261	ug/l #	50
38) Carbon Tetrachloride	5.562	117	38213	6.384	ug/l #	15
40) Benzene	6.049	78	12419	0.725	ug/l	95
48) Methyl methacrylate	7.634	41	897	0.235	ug/l #	42
49) 1,4-Dioxane	7.683	88	29	0.656	ug/l #	1
51) 4-Methyl-2-Pentanone	8.579	43	5070	1.163	ug/l	95
52) Toluene	8.726	92	13747	1.295	ug/l	96
59) 2-Hexanone	9.378	43	23515	8.133	ug/l #	24
67) Ethyl Benzene	10.195	91	51161	2.467	ug/l	98
68) m/p-Xylenes	10.305	106	12288	1.572	ug/l	96
69) o-Xylene	10.646	106	9652	1.279	ug/l	98
70) Styrene	10.664	104	3240	0.251	ug/l #	40
76) 1,2,3-Trichloropropane	11.079	75	148592	32.513	ug/l #	35
79) 2-Chlorotoluene	11.378	91	3892	0.263	ug/l #	41
80) 1,3,5-Trimethylbenzene	11.451	105	6654	0.394	ug/l	93
81) trans-1,4-Dichloro-2-b...	11.079	75	148592	87.248	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.750	105	22125	1.296	ug/l	96
85) sec-Butylbenzene	11.750	105	22125	1.006	ug/l #	57
90) Hexachloroethane	12.414	117	7350	2.250	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	12.975	75	262	0.262	ug/l #	1
95) Naphthalene	13.774	128	2880987	171.454	ug/l	100

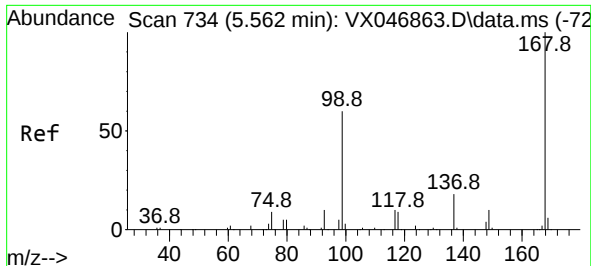
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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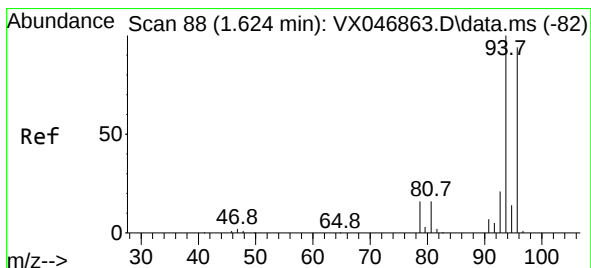
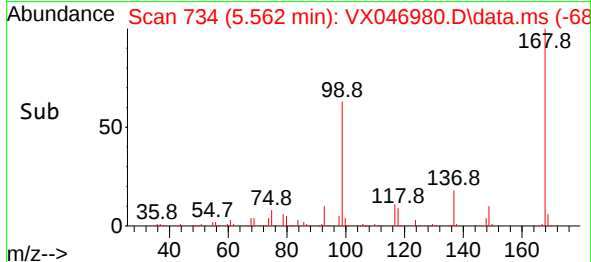
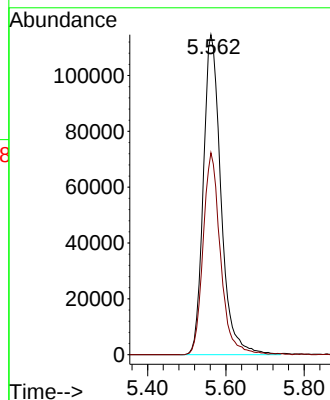
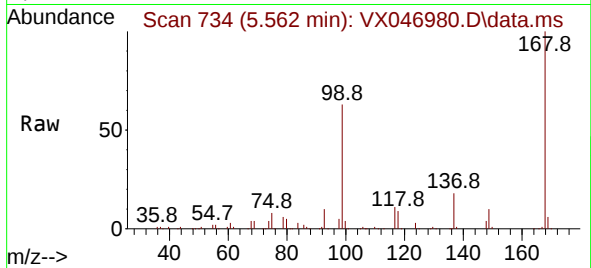




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

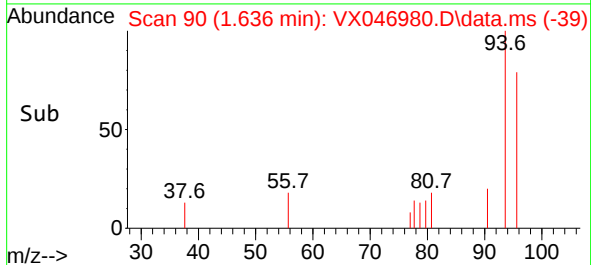
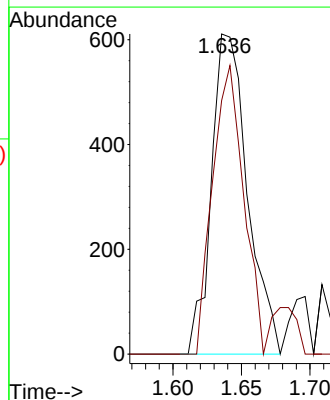
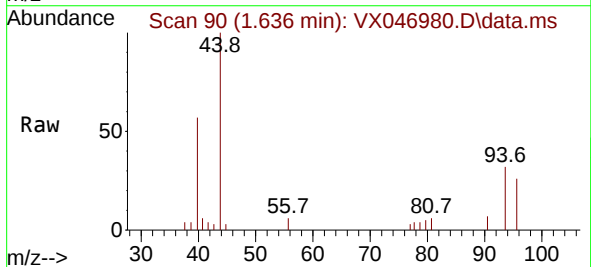
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-12-G

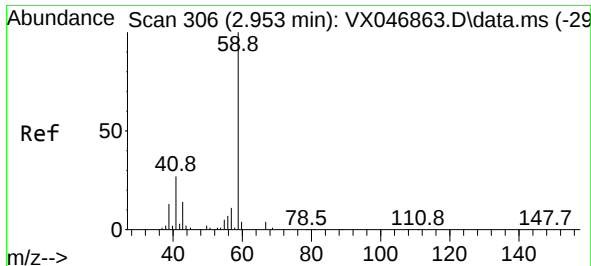
Tgt Ion:168 Resp: 357839
Ion Ratio Lower Upper
168 100
99 63.1 48.8 73.2



#5
Bromomethane
Concen: 0.428 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.012 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

Tgt Ion: 94 Resp: 1120
Ion Ratio Lower Upper
94 100
96 79.2 75.5 113.3





#11

Tert butyl alcohol

Concen: 1.661 ug/l

RT: 2.965 min Scan# 306

Delta R.T. 0.012 min

Lab File: VX046980.D

Acq: 14 Jul 2025 17:31

Instrument :

MSVOA_X

ClientSampleId :

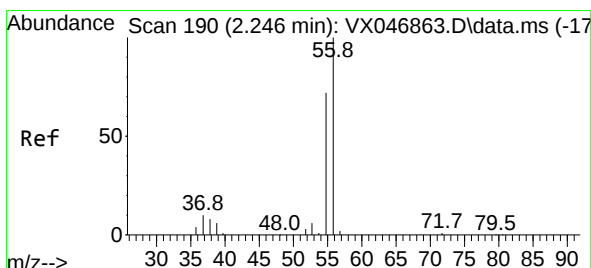
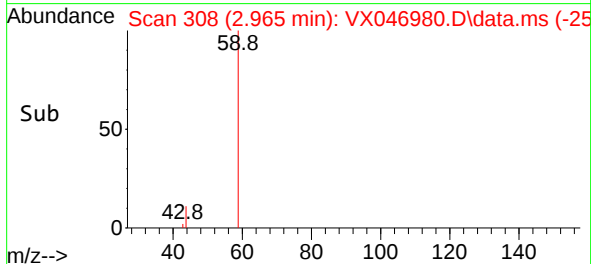
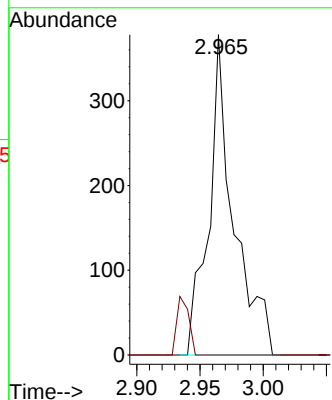
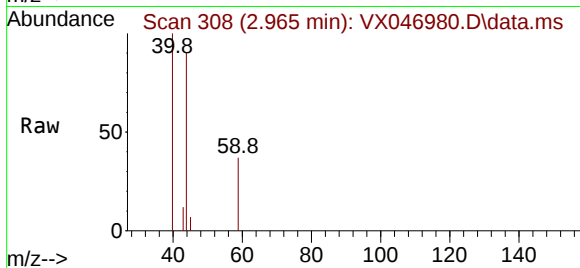
WC-A2-12-G

Tgt Ion: 59 Resp: 515

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#13

Acrolein

Concen: 3.461 ug/l

RT: 2.257 min Scan# 192

Delta R.T. 0.011 min

Lab File: VX046980.D

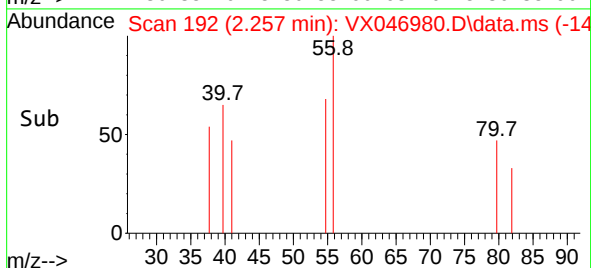
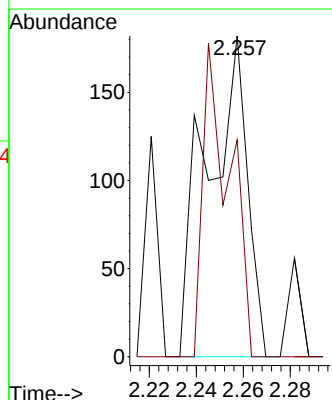
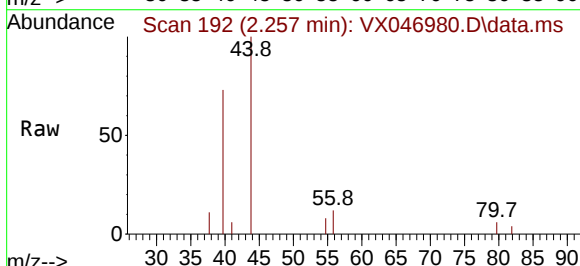
Acq: 14 Jul 2025 17:31

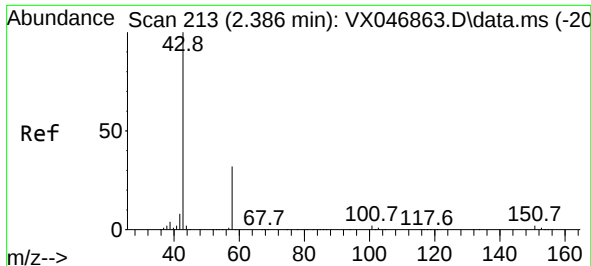
Tgt Ion: 56 Resp: 217

Ion Ratio Lower Upper

56 100

55 65.4 55.5 83.3

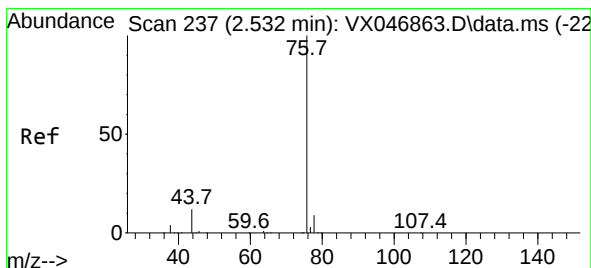
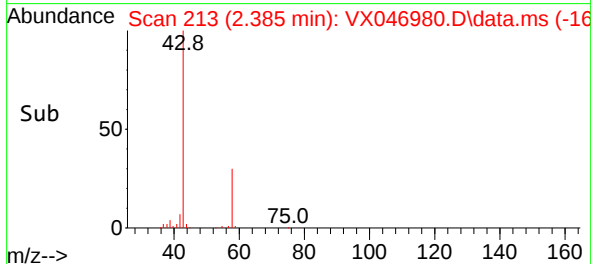
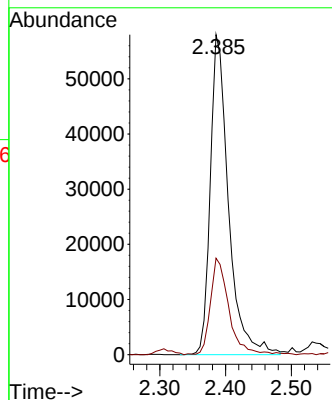
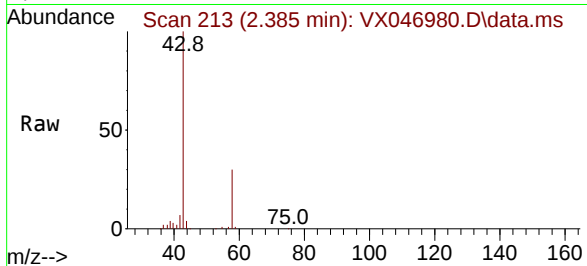




#16
Acetone
Concen: 75.985 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

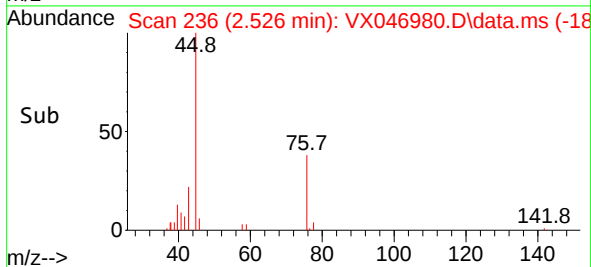
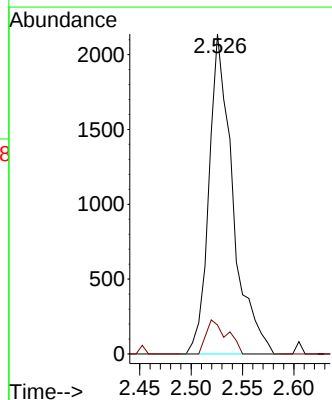
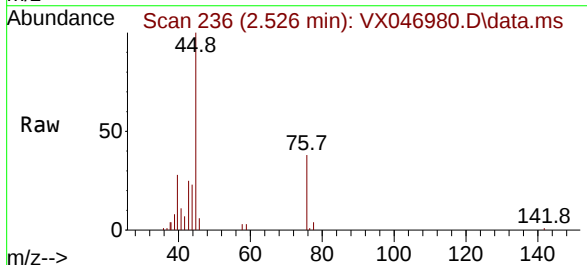
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-12-G

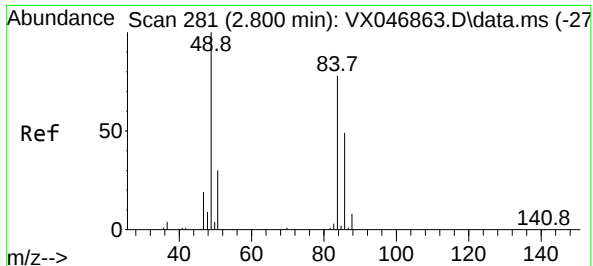
Tgt Ion: 43 Resp: 111579
Ion Ratio Lower Upper
43 100
58 30.0 25.8 38.6



#17
Carbon Disulfide
Concen: 0.340 ug/l
RT: 2.526 min Scan# 236
Delta R.T. -0.006 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

Tgt Ion: 76 Resp: 3455
Ion Ratio Lower Upper
76 100
78 9.1 7.4 11.2

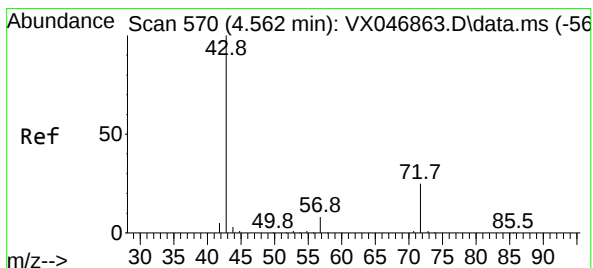
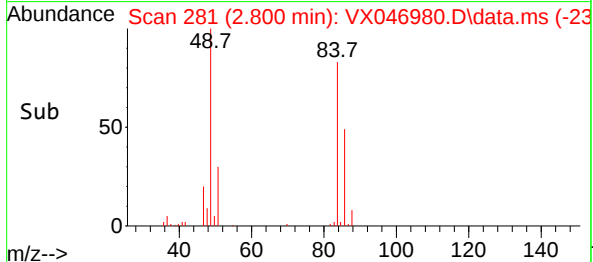
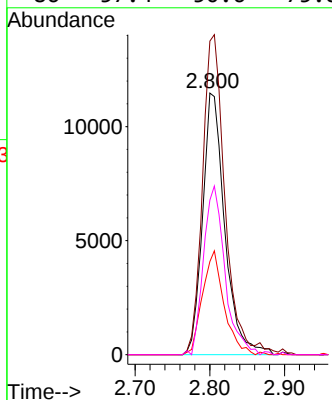
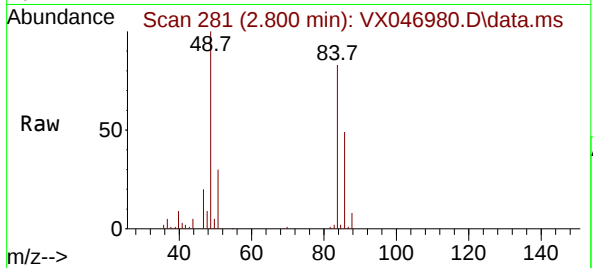




#20
Methylene Chloride
Concen: 5.454 ug/l
RT: 2.800 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

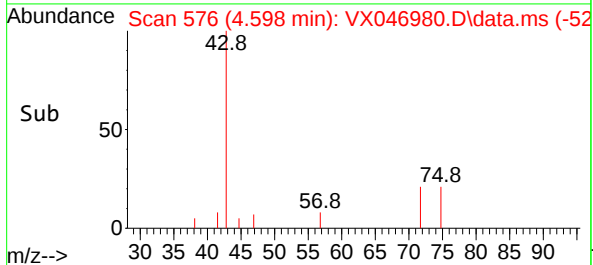
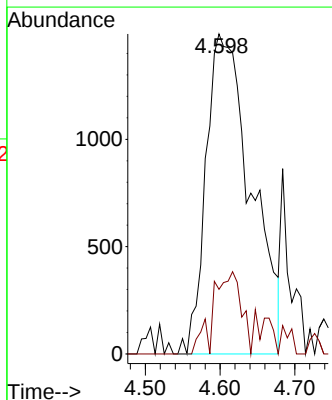
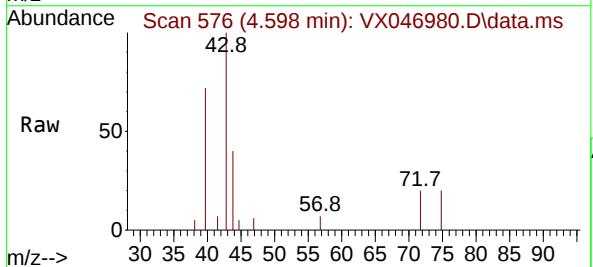
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-12-G

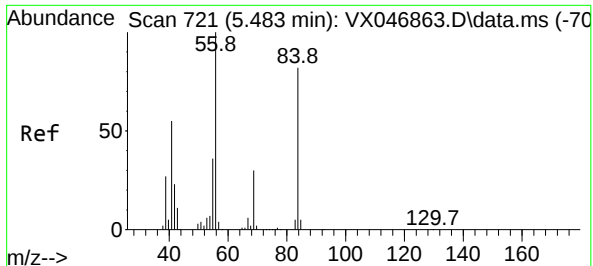
Tgt Ion:	84	Resp:	23684
Ion	Ratio	Lower	Upper
84	100		
49	116.4	102.8	154.2
51	34.6	31.1	46.7
86	57.4	50.6	75.8



#25
2-Butanone
Concen: 3.179 ug/l
RT: 4.598 min Scan# 576
Delta R.T. 0.036 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

Tgt Ion:	43	Resp:	6228
Ion	Ratio	Lower	Upper
43	100		
72	20.2	20.0	30.0

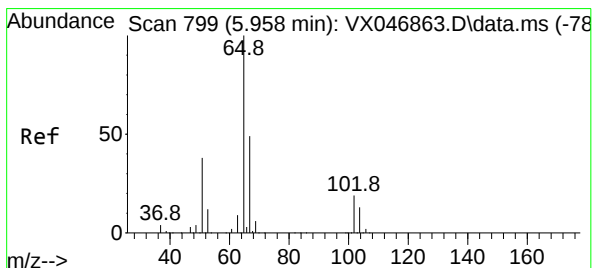
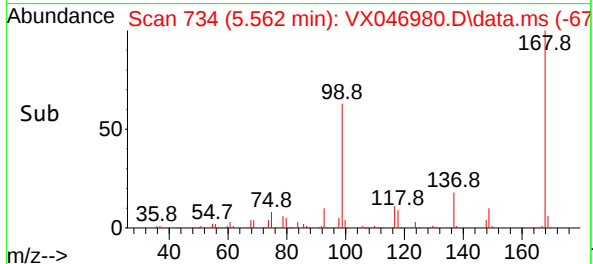
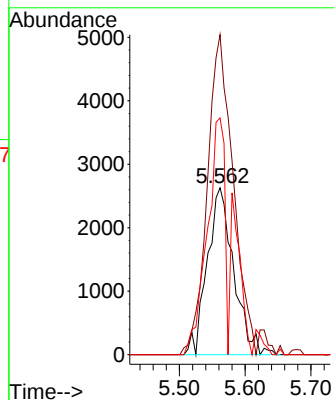
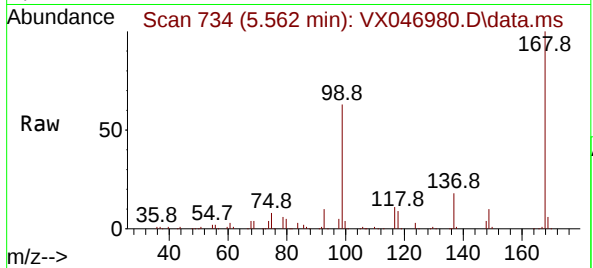




#31
Cyclohexane
Concen: 1.087 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.079 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

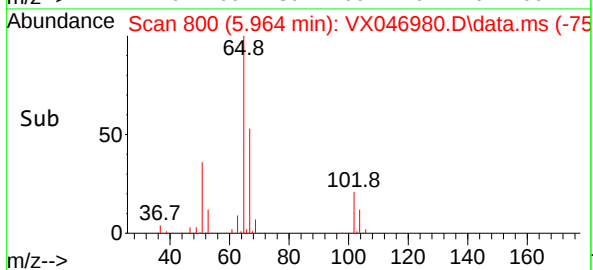
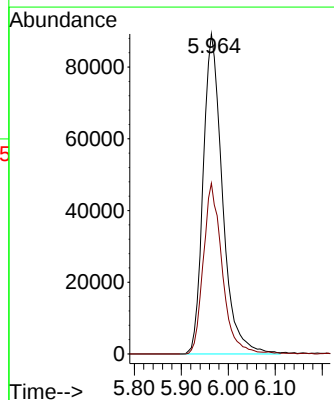
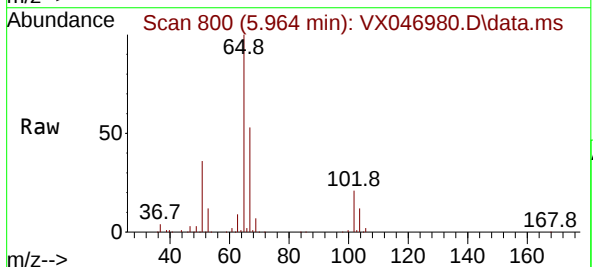
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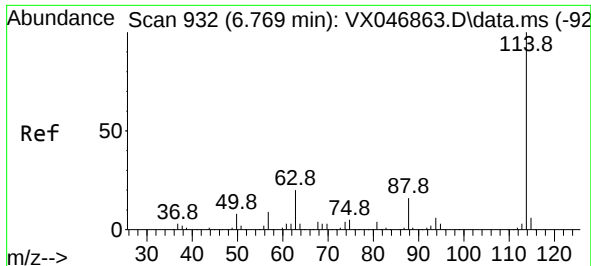
Tgt Ion: 56 Resp: 7346
Ion Ratio Lower Upper
56 100
69 191.7 24.0 36.0#
84 141.8 66.5 99.7#



#33
1,2-Dichloroethane-d4
Concen: 53.780 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.006 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

Tgt Ion: 65 Resp: 254241
Ion Ratio Lower Upper
65 100
67 52.4 0.0 105.2

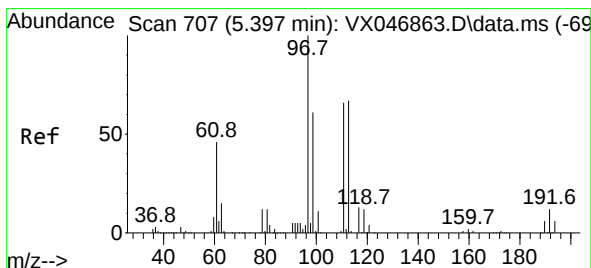
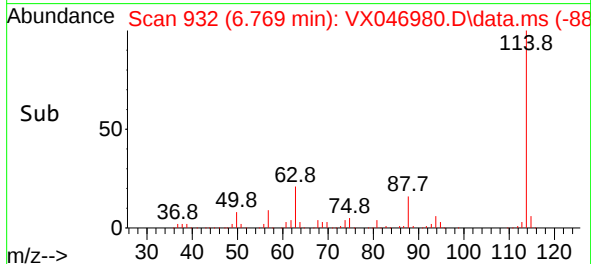
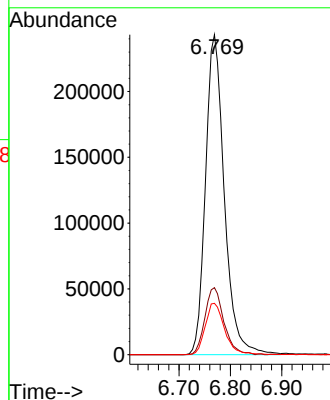
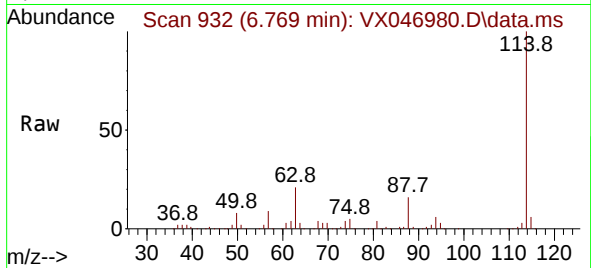




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

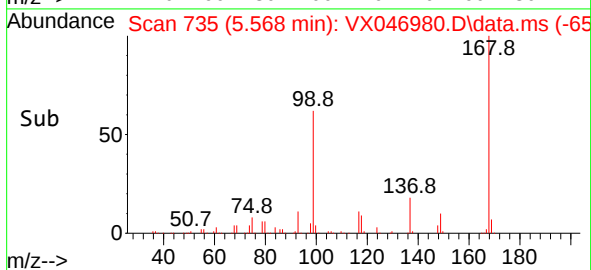
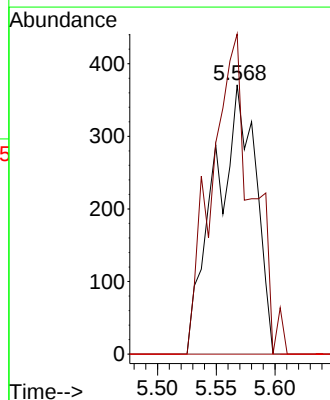
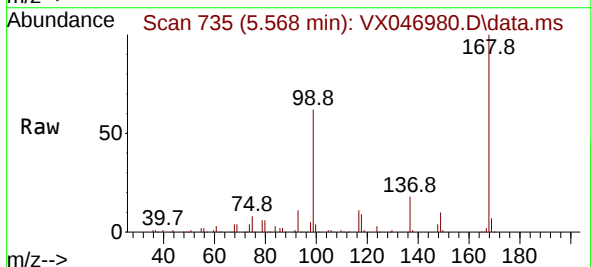
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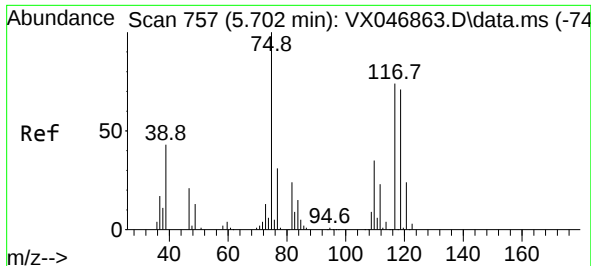
Tgt Ion:114 Resp: 618206
Ion Ratio Lower Upper
114 100
63 20.9 0.0 40.4
88 16.1 0.0 31.0



#35
Dibromofluoromethane
Concen: 0.213 ug/l
RT: 5.568 min Scan# 735
Delta R.T. 0.170 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

Tgt Ion:113 Resp: 895
Ion Ratio Lower Upper
113 100
111 118.5 81.2 121.8
192 0.0 15.3 22.9#





#36

1,1-Dichloropropene

Concen: 5.261 ug/l

RT: 5.568 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX046980.D

Acq: 14 Jul 2025 17:31

Instrument :

MSVOA_X

ClientSampleId :

WC-A2-12-G

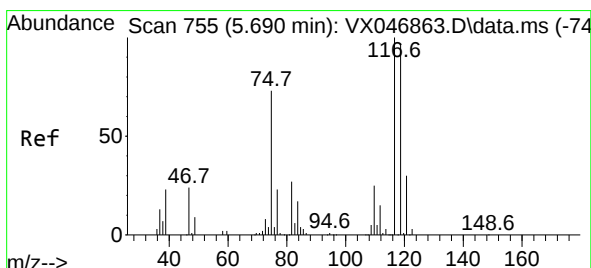
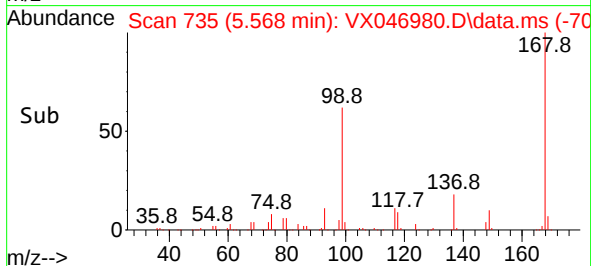
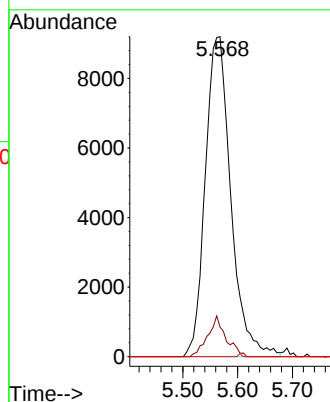
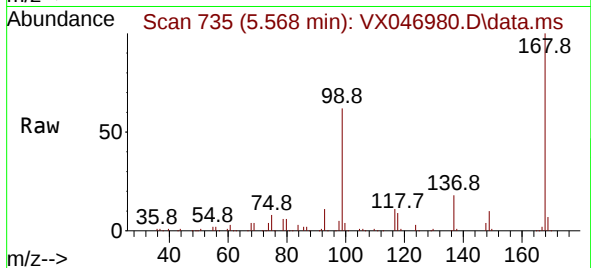
Tgt Ion: 75 Resp: 29786

Ion Ratio Lower Upper

75 100

110 9.0 17.3 51.9#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 6.384 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.128 min

Lab File: VX046980.D

Acq: 14 Jul 2025 17:31

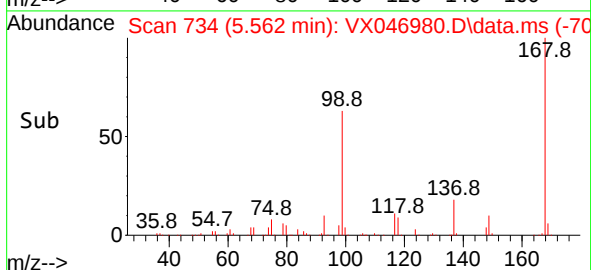
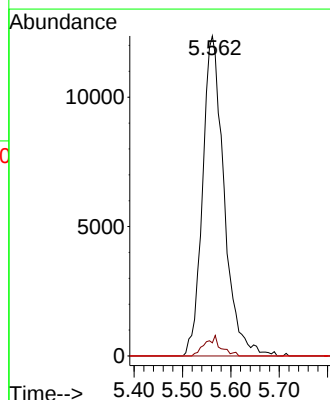
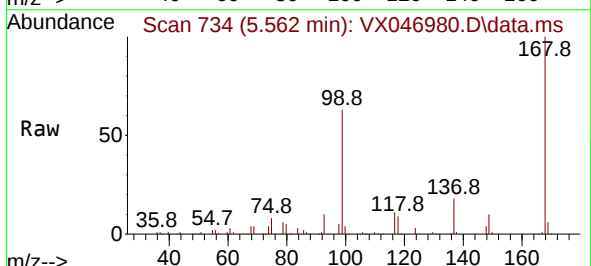
Tgt Ion: 117 Resp: 38213

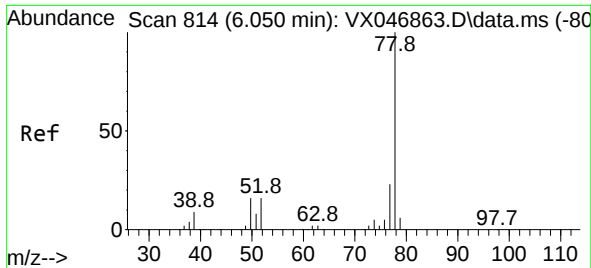
Ion Ratio Lower Upper

117 100

119 4.1 76.6 114.8#

121 0.0 24.1 36.1#





#40

Benzene

Concen: 0.725 ug/l

RT: 6.049 min Scan# 814

Delta R.T. -0.000 min

Lab File: VX046980.D

Acq: 14 Jul 2025 17:31

Instrument :

MSVOA_X

ClientSampleId :

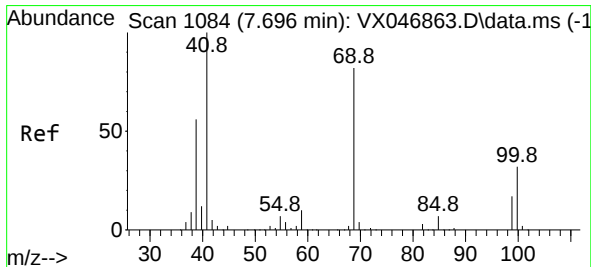
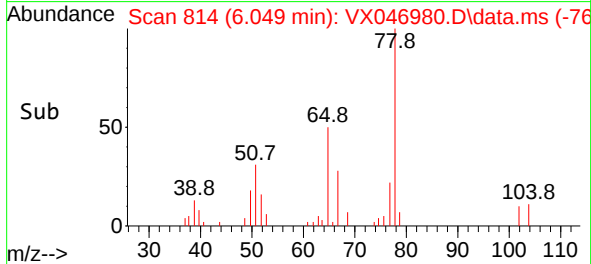
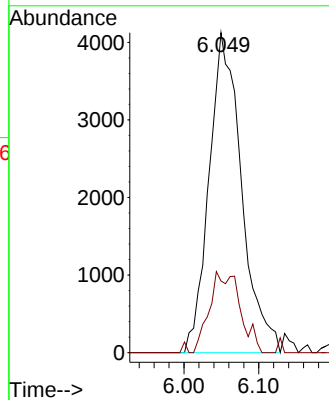
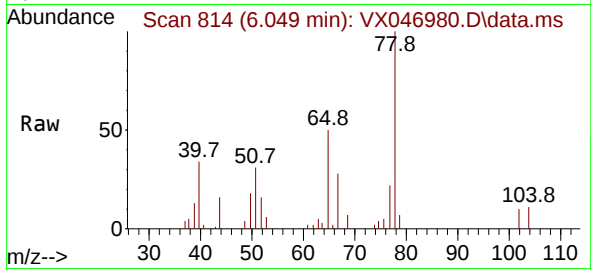
WC-A2-12-G

Tgt Ion: 78 Resp: 12419

Ion Ratio Lower Upper

78 100

77 20.9 18.7 28.1



#48

Methyl methacrylate

Concen: 0.235 ug/l

RT: 7.634 min Scan# 1074

Delta R.T. -0.061 min

Lab File: VX046980.D

Acq: 14 Jul 2025 17:31

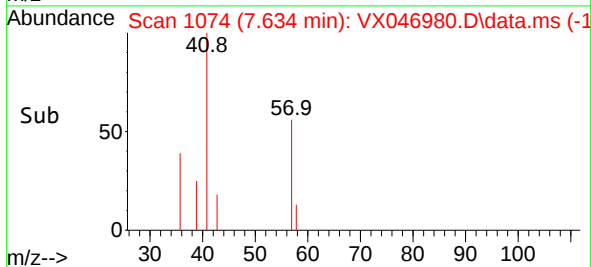
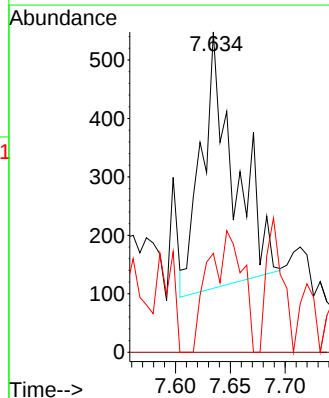
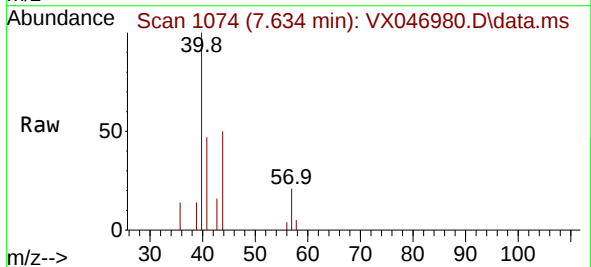
Tgt Ion: 41 Resp: 897

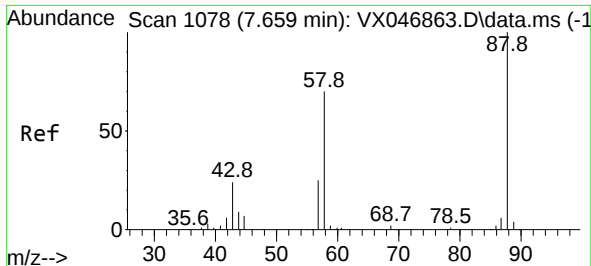
Ion Ratio Lower Upper

41 100

69 0.0 65.8 98.8#

39 49.6 43.8 65.6





#49

1,4-Dioxane

Concen: 0.656 ug/l

RT: 7.683 min Scan# 1082

Delta R.T. 0.024 min

Lab File: VX046980.D

Acq: 14 Jul 2025 17:31

Instrument :

MSVOA_X

ClientSampleId :

WC-A2-12-G

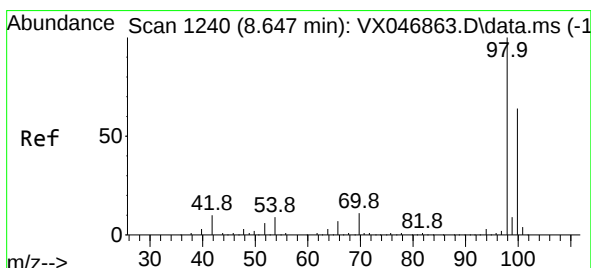
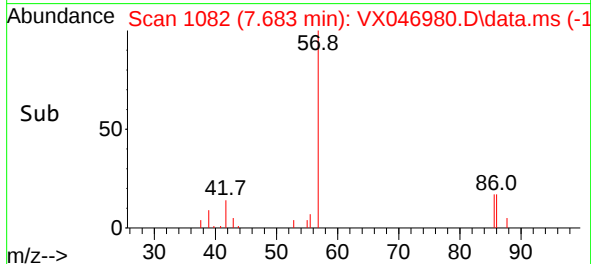
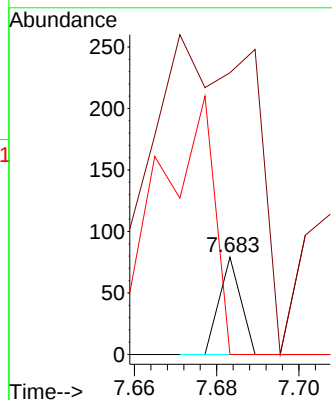
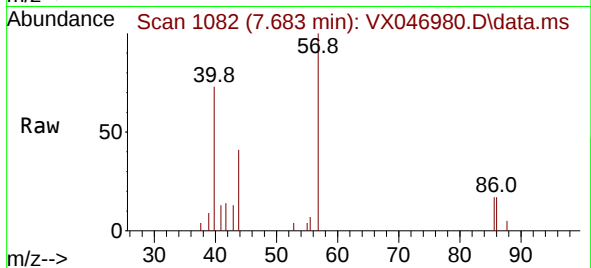
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 751.7 31.7 47.5#

58 627.6 57.5 86.3#



#50

Toluene-d8

Concen: 48.791 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.006 min

Lab File: VX046980.D

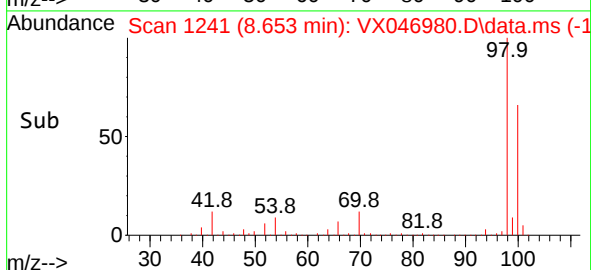
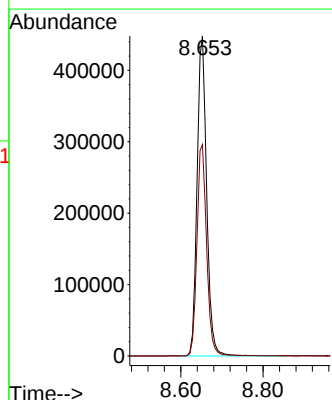
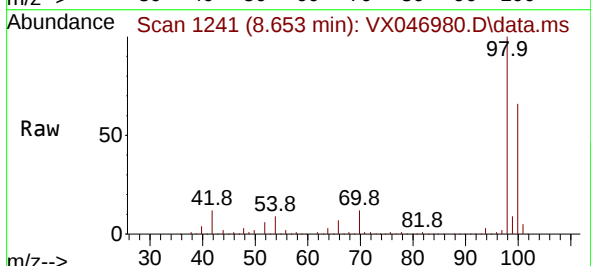
Acq: 14 Jul 2025 17:31

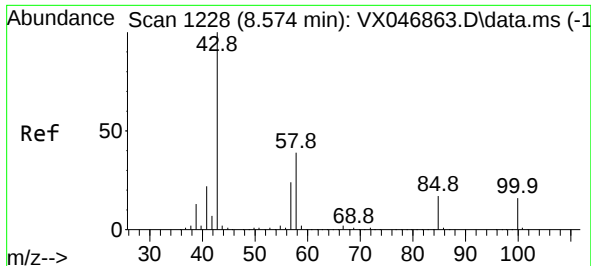
Tgt Ion: 98 Resp: 722392

Ion Ratio Lower Upper

98 100

100 66.5 53.0 79.6

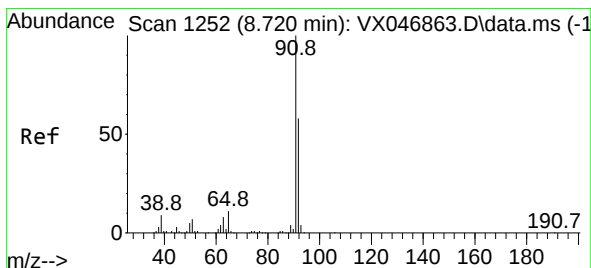
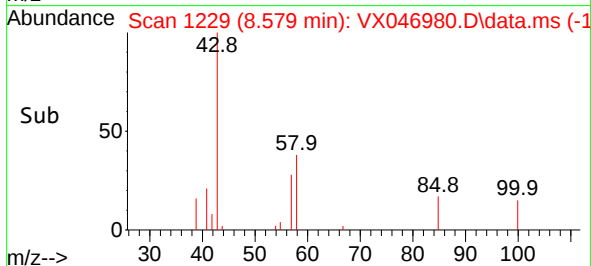
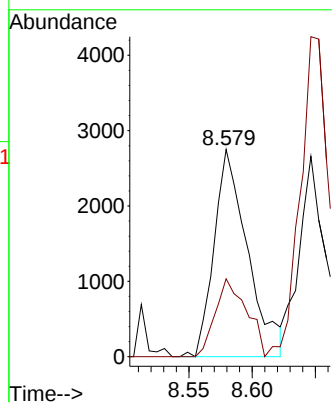
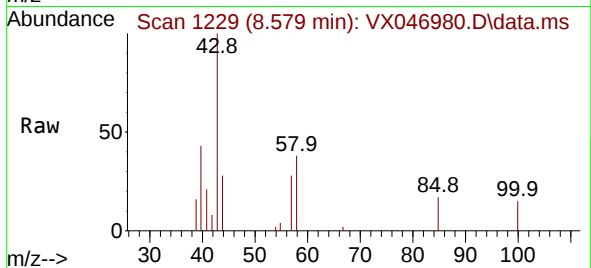




#51
4-Methyl-2-Pentanone
Concen: 1.163 ug/l
RT: 8.579 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

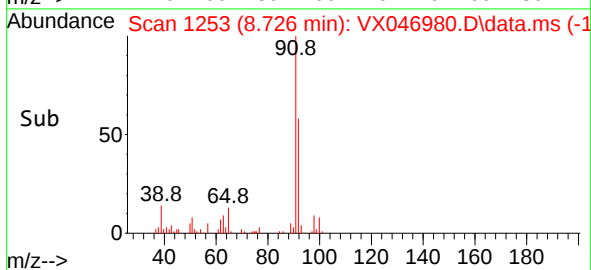
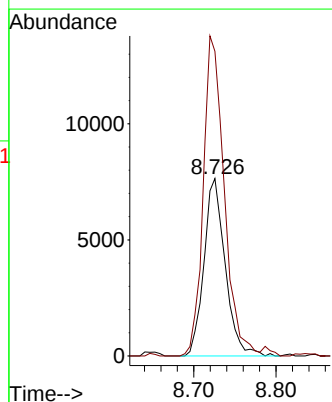
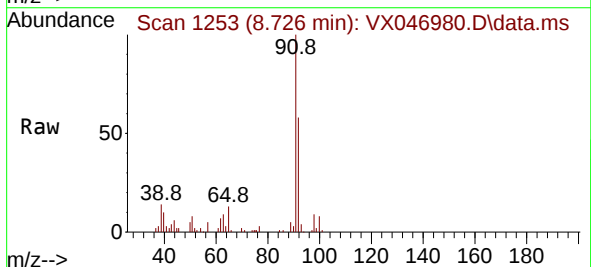
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-12-G

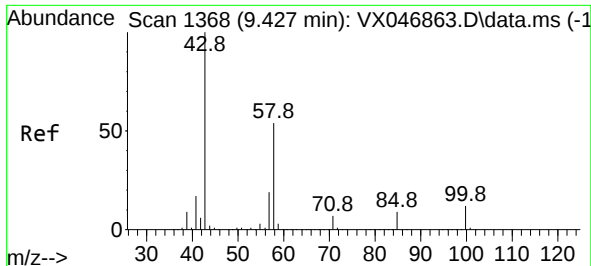
Tgt Ion: 43 Resp: 5070
Ion Ratio Lower Upper
43 100
58 35.1 30.4 45.6



#52
Toluene
Concen: 1.295 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

Tgt Ion: 92 Resp: 13747
Ion Ratio Lower Upper
92 100
91 177.9 137.9 206.9

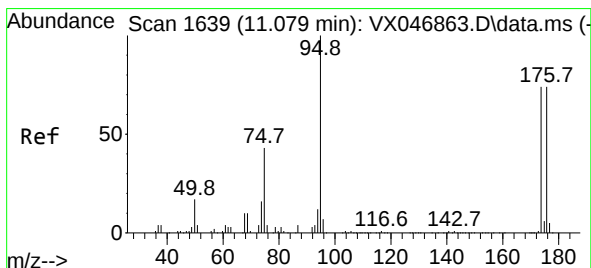
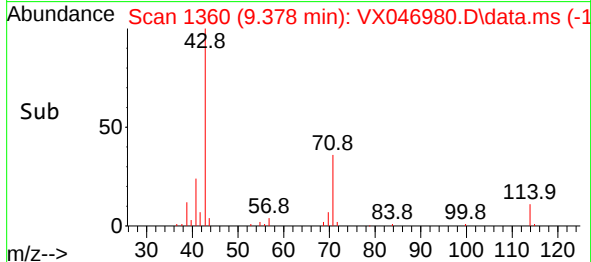
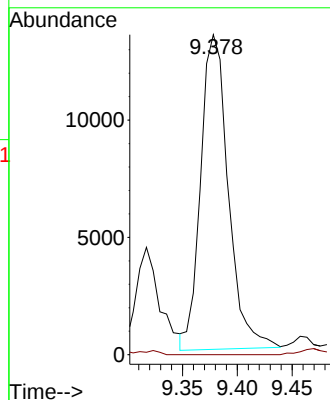
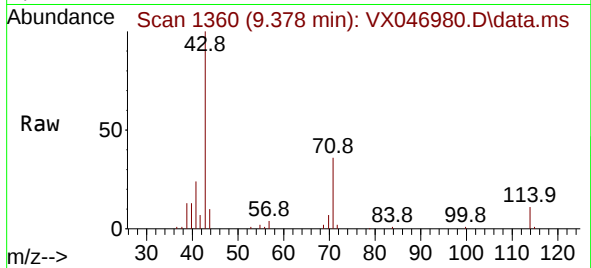




#59
2-Hexanone
Concen: 8.133 ug/l
RT: 9.378 min Scan# 11
Delta R.T. -0.049 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

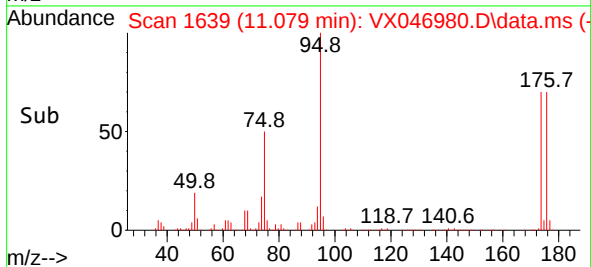
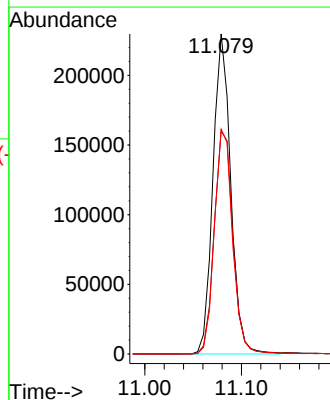
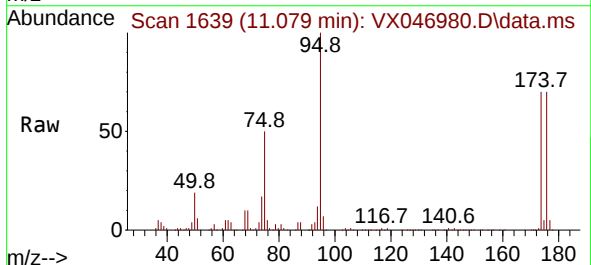
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-12-G

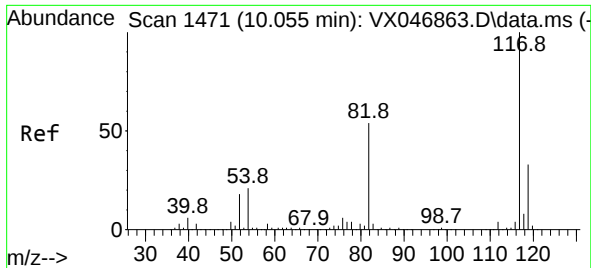
Tgt Ion: 43 Resp: 23515
Ion Ratio Lower Upper
43 100
58 0.0 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 52.105 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

Tgt Ion: 95 Resp: 293199
Ion Ratio Lower Upper
95 100
174 73.9 0.0 152.0
176 71.9 0.0 145.2

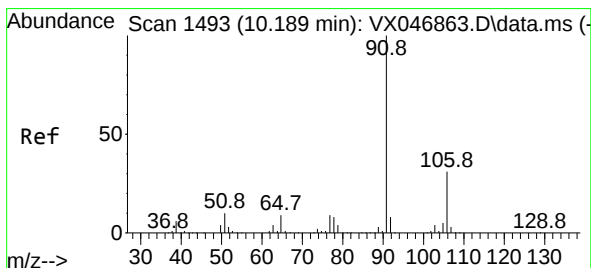
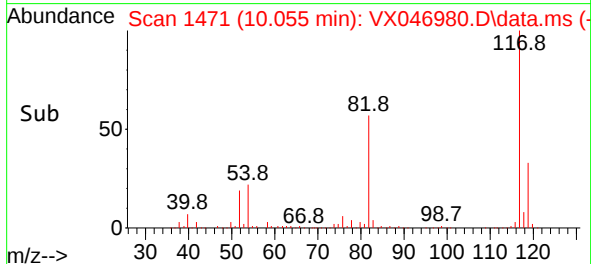
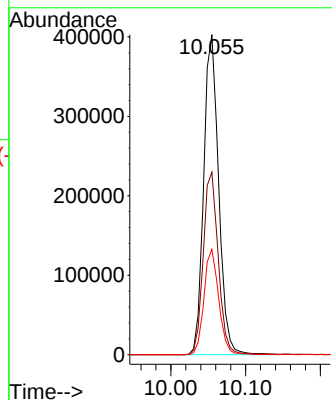
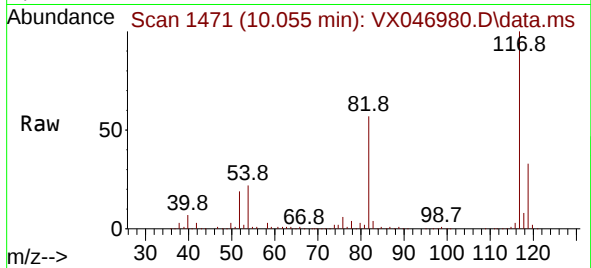




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

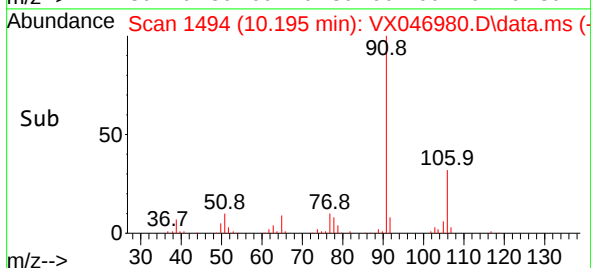
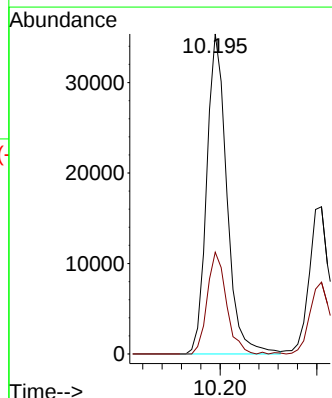
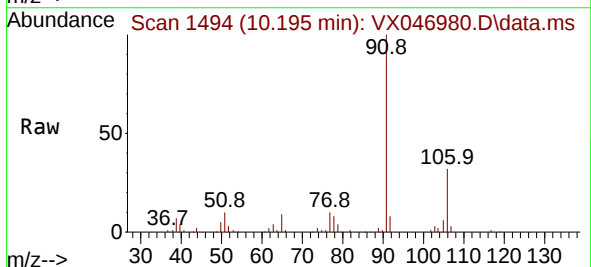
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-12-G

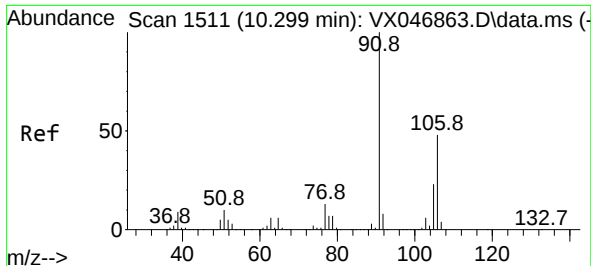
Tgt Ion:117 Resp: 560151
Ion Ratio Lower Upper
117 100
82 57.0 43.3 64.9
119 32.9 26.4 39.6



#67
Ethyl Benzene
Concen: 2.467 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

Tgt Ion: 91 Resp: 51161
Ion Ratio Lower Upper
91 100
106 29.3 24.4 36.6

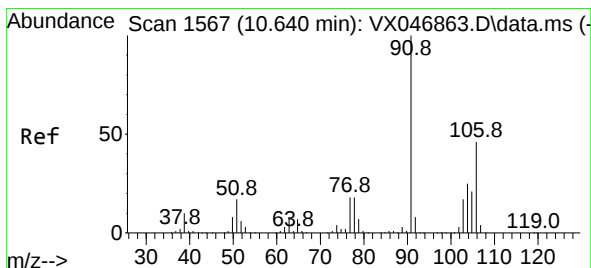
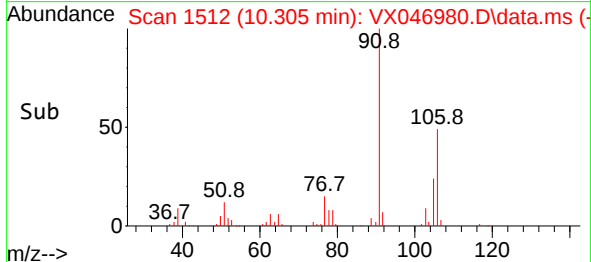
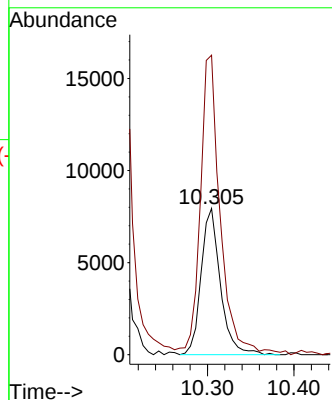
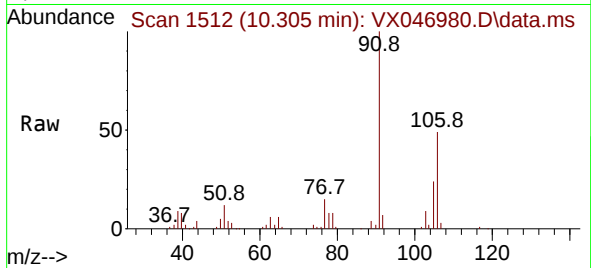




#68
m/p-Xylenes
Concen: 1.572 ug/l
RT: 10.305 min Scan# 1511
Delta R.T. 0.006 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

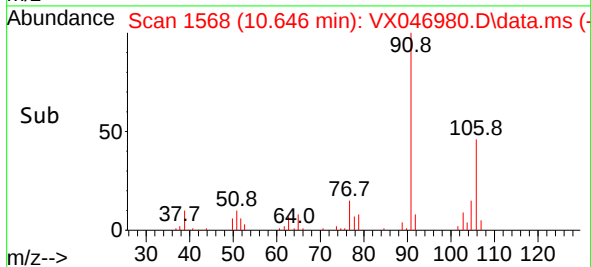
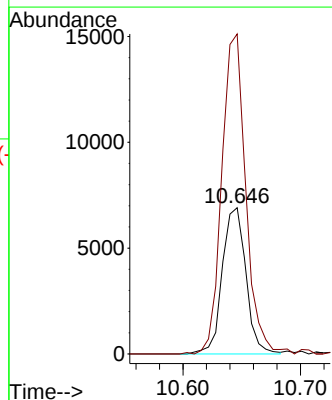
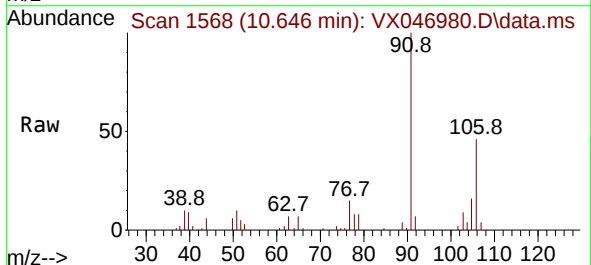
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-12-G

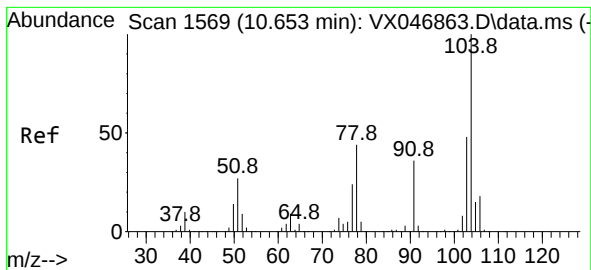
Tgt Ion:106 Resp: 12288
Ion Ratio Lower Upper
106 100
91 212.2 164.6 246.8



#69
o-Xylene
Concen: 1.279 ug/l
RT: 10.646 min Scan# 1568
Delta R.T. 0.006 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

Tgt Ion:106 Resp: 9652
Ion Ratio Lower Upper
106 100
91 222.0 109.5 328.5





#70

Styrene

Concen: 0.251 ug/l

RT: 10.664 min Scan# 1571

Delta R.T. 0.012 min

Lab File: VX046980.D

Acq: 14 Jul 2025 17:31

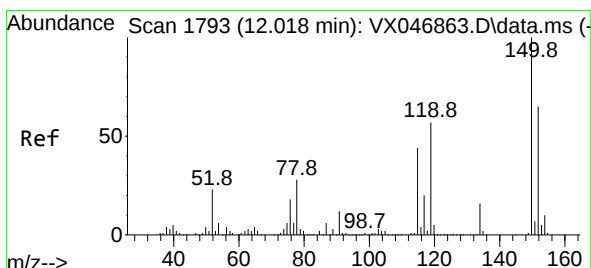
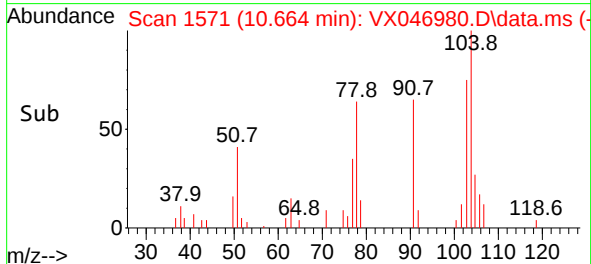
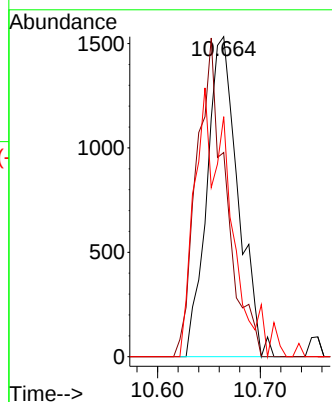
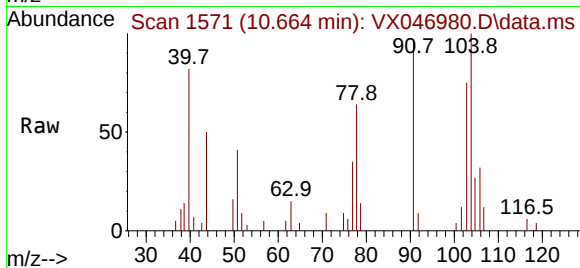
Instrument :

MSVOA_X

ClientSampleId :

WC-A2-12-G

Tgt Ion:	104	Resp:	3240
Ion Ratio	Lower	Upper	
104	100		
78	93.3	40.3	60.5#
103	94.2	42.8	64.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

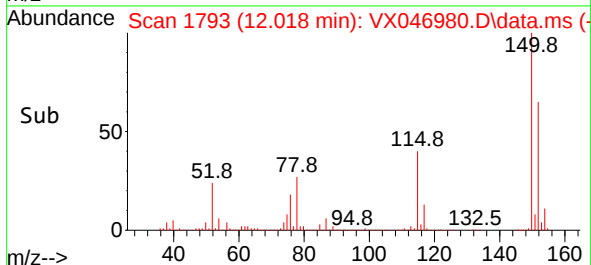
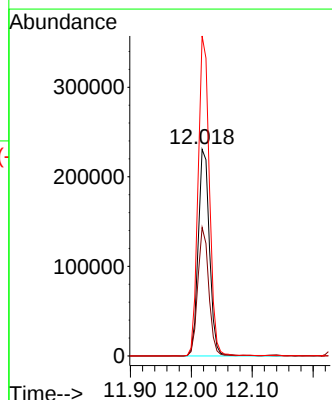
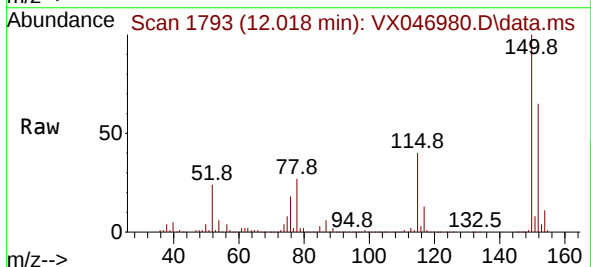
RT: 12.018 min Scan# 1793

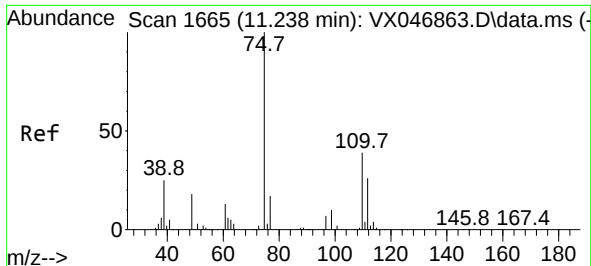
Delta R.T. -0.000 min

Lab File: VX046980.D

Acq: 14 Jul 2025 17:31

Tgt Ion:	152	Resp:	295784
Ion Ratio	Lower	Upper	
152	100		
115	60.5	42.4	127.1
150	155.1	0.0	349.2

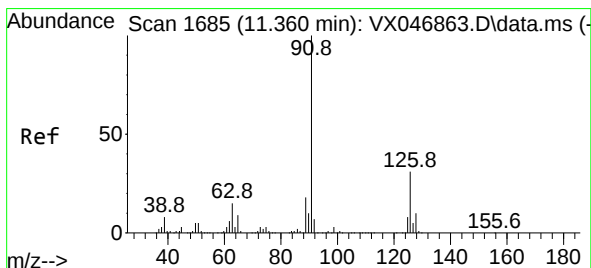
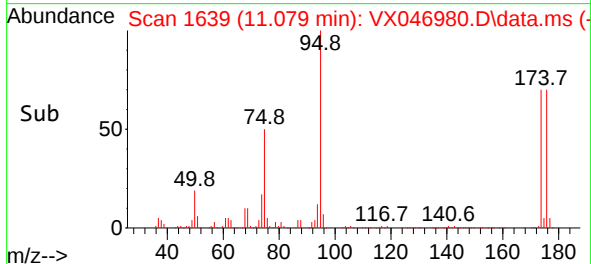
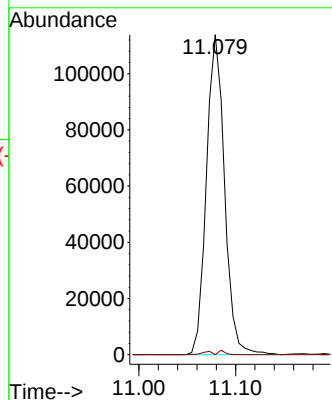
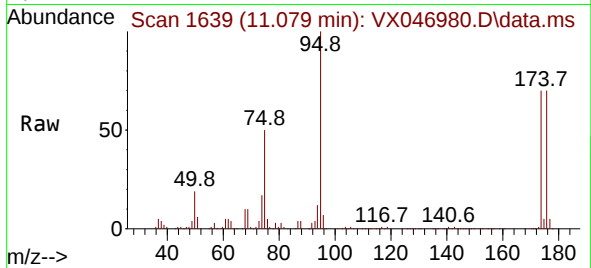




#76
1,2,3-Trichloropropane
Concen: 32.513 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

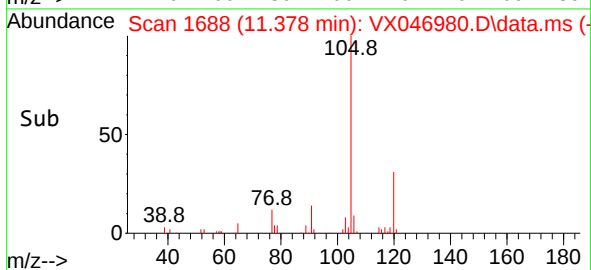
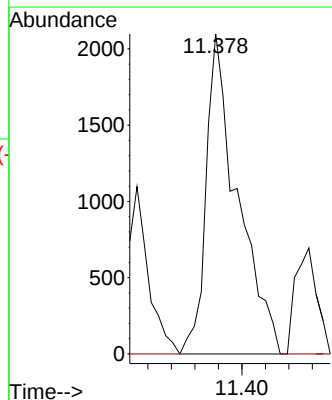
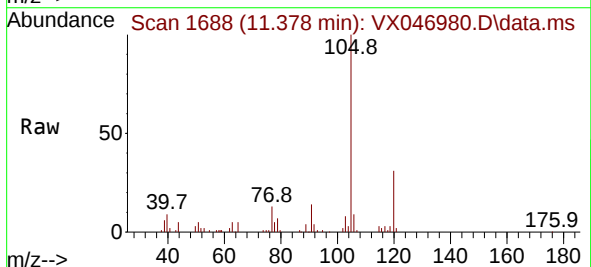
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-12-G

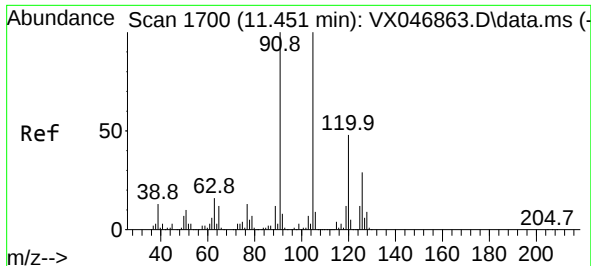
Tgt Ion: 75 Resp: 148592
Ion Ratio Lower Upper
75 100
77 0.6 20.6 61.8#



#79
2-Chlorotoluene
Concen: 0.263 ug/l
RT: 11.378 min Scan# 1688
Delta R.T. 0.018 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

Tgt Ion: 91 Resp: 3892
Ion Ratio Lower Upper
91 100
126 0.0 16.6 49.8#

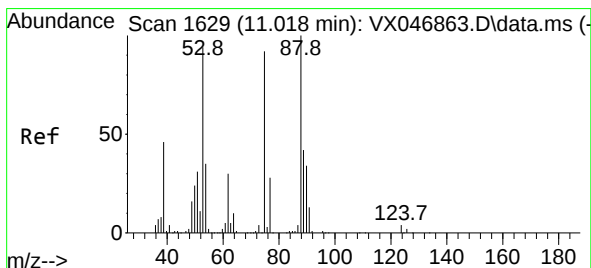
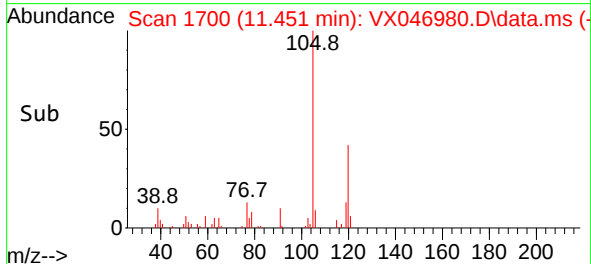
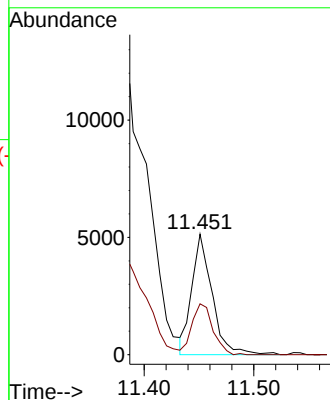
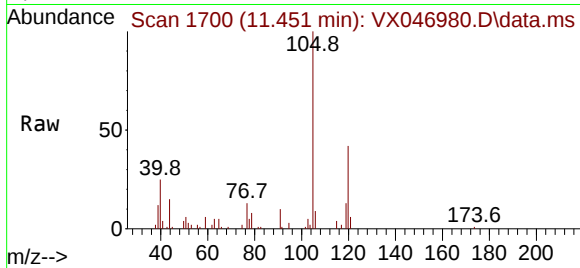




#80
1,3,5-Trimethylbenzene
Concen: 0.394 ug/l
RT: 11.451 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

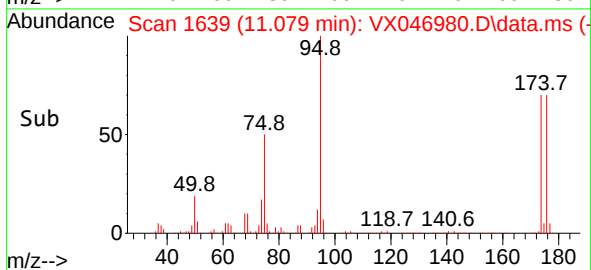
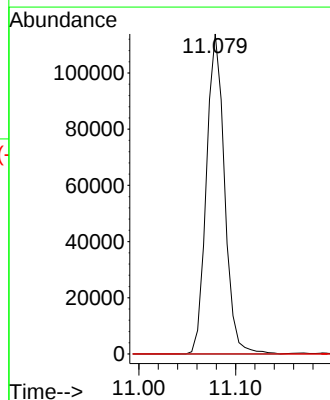
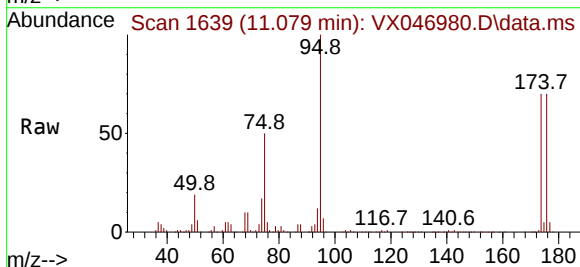
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-12-G

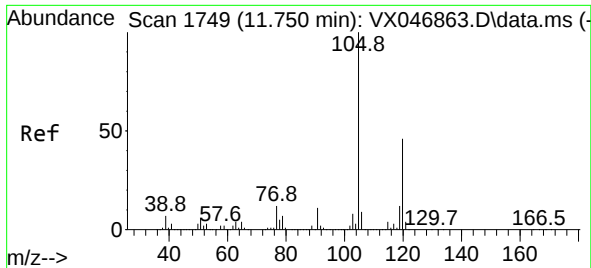
Tgt Ion:105 Resp: 6654
Ion Ratio Lower Upper
105 100
120 43.4 24.1 72.4



#81
trans-1,4-Dichloro-2-butene
Concen: 87.248 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

Tgt Ion: 75 Resp: 148592
Ion Ratio Lower Upper
75 100
53 0.0 83.7 125.5#
89 0.0 38.2 57.2#

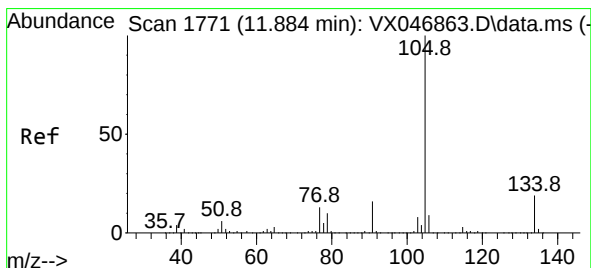
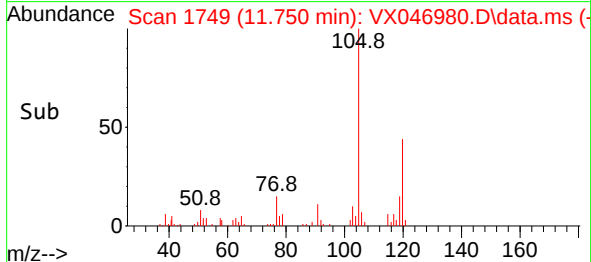
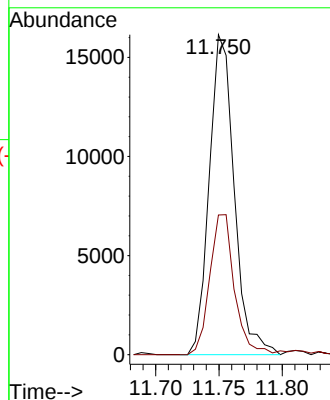
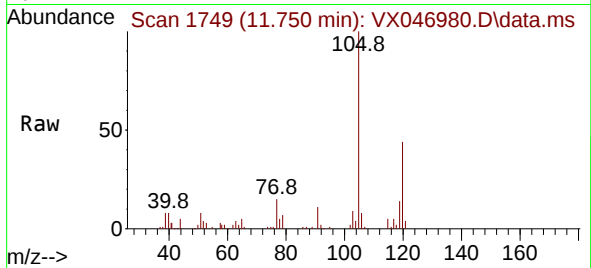




#84
1,2,4-Trimethylbenzene
Concen: 1.296 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

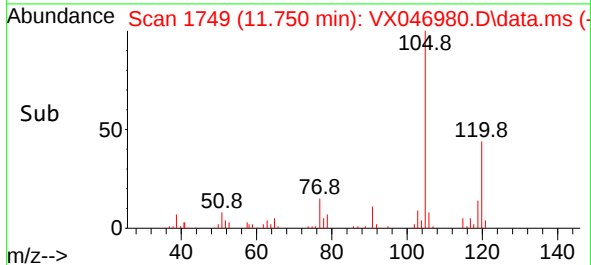
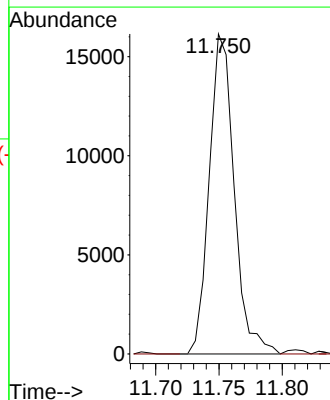
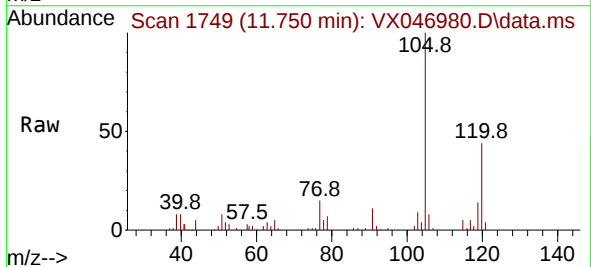
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-12-G

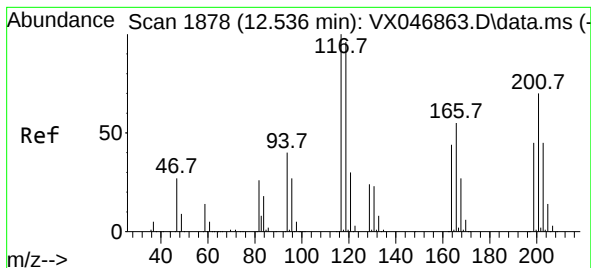
Tgt Ion:105 Resp: 22125
Ion Ratio Lower Upper
105 100
120 43.8 23.3 69.8



#85
sec-Butylbenzene
Concen: 1.006 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.134 min
Lab File: VX046980.D
Acq: 14 Jul 2025 17:31

Tgt Ion:105 Resp: 22125
Ion Ratio Lower Upper
105 100
134 0.0 9.9 29.7#





#90

Hexachloroethane

Concen: 2.250 ug/l

RT: 12.414 min Scan# 11

Delta R.T. -0.122 min

Lab File: VX046980.D

Acq: 14 Jul 2025 17:31

Instrument :

MSVOA_X

ClientSampleId :

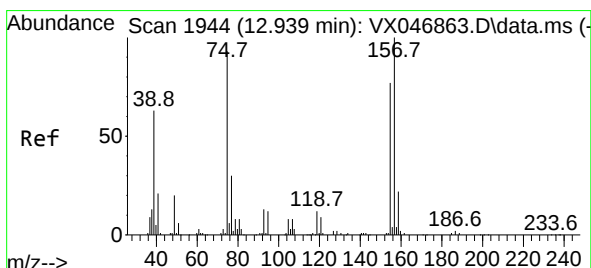
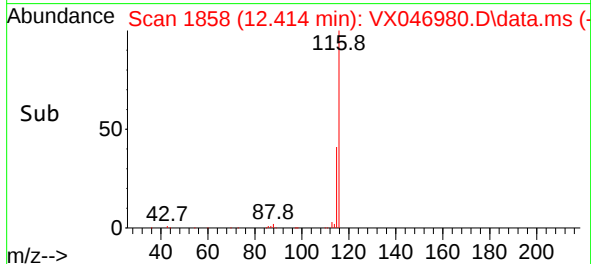
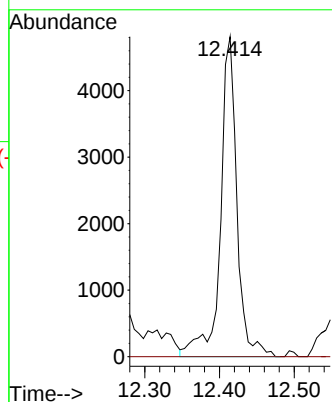
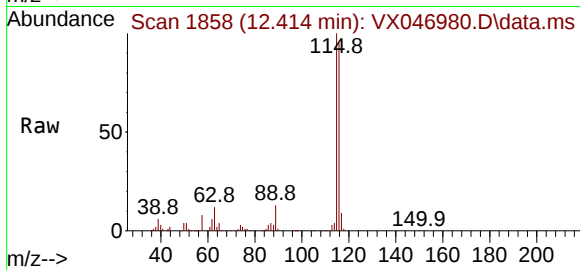
WC-A2-12-G

Tgt Ion:117 Resp: 7350

Ion Ratio Lower Upper

117 100

201 0.0 35.8 107.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.262 ug/l

RT: 12.975 min Scan# 1950

Delta R.T. 0.036 min

Lab File: VX046980.D

Acq: 14 Jul 2025 17:31

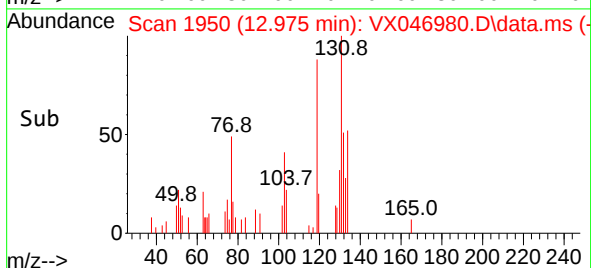
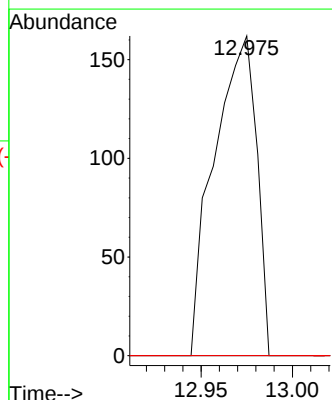
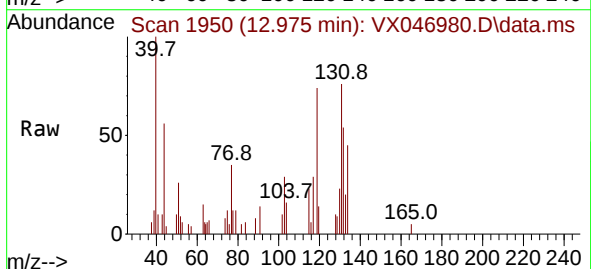
Tgt Ion: 75 Resp: 262

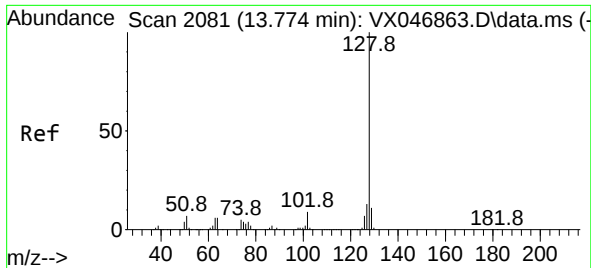
Ion Ratio Lower Upper

75 100

155 0.0 43.1 129.4#

157 0.0 56.5 169.5#





#95

Naphthalene

Concen: 171.454 ug/l

RT: 13.774 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX046980.D

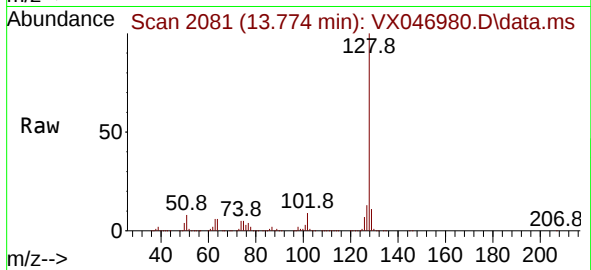
Acq: 14 Jul 2025 17:31

Instrument :

MSVOA_X

ClientSampleId :

WC-A2-12-G



Tgt Ion:128 Resp: 2880987

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

129 11.1 8.6 13.0

