

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032323\
 Data File : VX034702.D
 Acq On : 23 Mar 2023 16:39
 Operator : JC/MD
 Sample : 02045-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC1-4-20230322

Quant Time: Mar 24 05:46:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X031023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 13 10:29:32 2023
 Response via : Initial Calibration

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

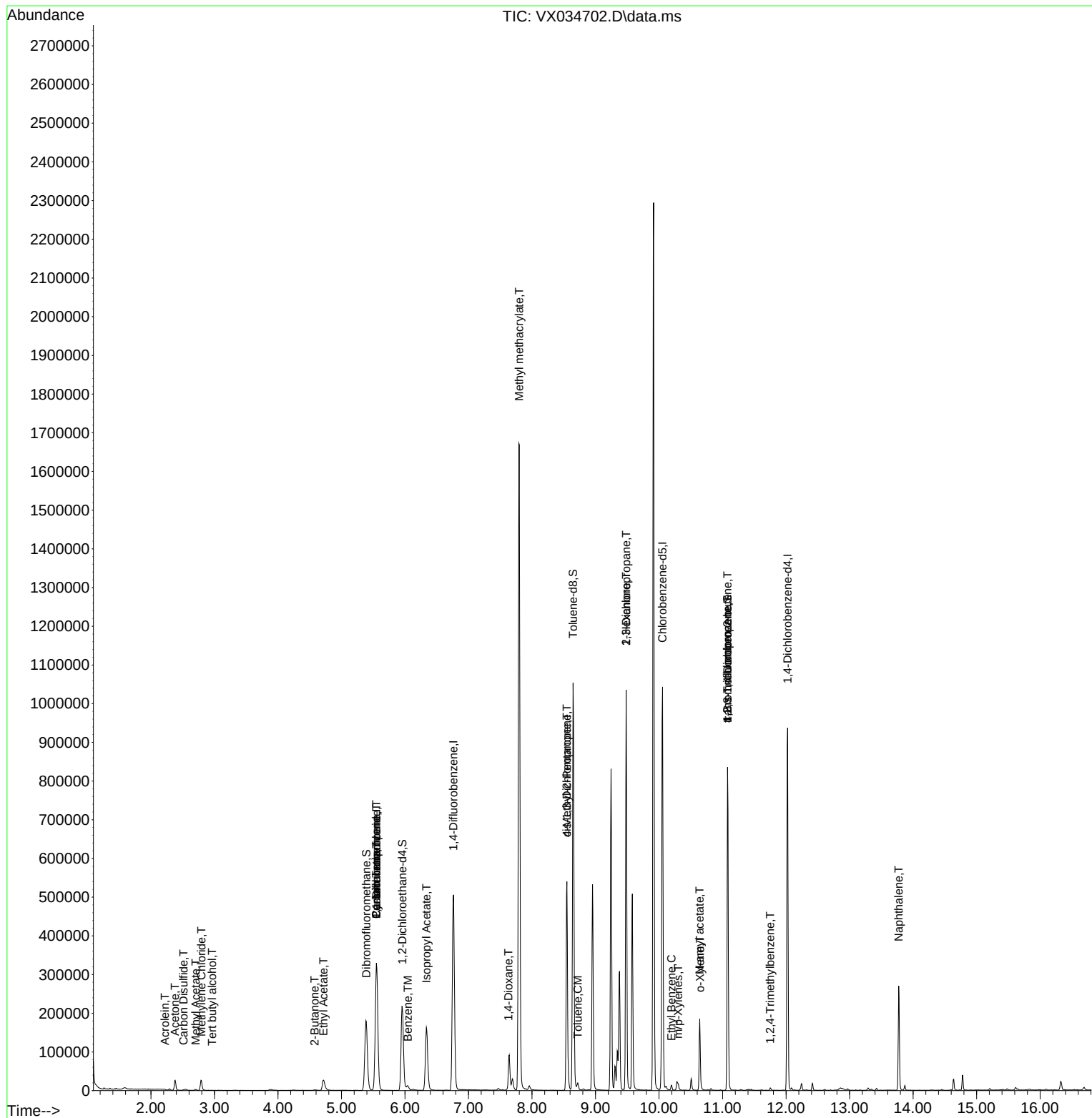
Internal Standards						
1) Pentafluorobenzene	5.550	168	300379	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	507022	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	441647	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	193444	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	218851	50.081	ug/l	0.01
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.160%			
35) Dibromofluoromethane	5.391	113	157219	46.965	ug/l	0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.920%			
50) Toluene-d8	8.647	98	603417	48.286	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.580%			
62) 4-Bromofluorobenzene	11.079	95	226010	44.774	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 89.540%			
Target Compounds						Qvalue
3) Chloromethane	1.301	50	387	Below Cal	#	42
11) Tert butyl alcohol	2.965	59	285	0.313	ug/l #	73
13) Acrolein	2.221	56	151	0.210	ug/l #	29
16) Acetone	2.380	43	29355	14.261	ug/l	95
17) Carbon Disulfide	2.514	76	2066	0.223	ug/l	97
18) Methyl Acetate	2.703	43	3526	0.524	ug/l	96
20) Methylene Chloride	2.794	84	12403	3.105	ug/l	90
25) 2-Butanone	4.574	43	3144	1.067	ug/l #	75
31) Cyclohexane	5.550	56	6894	1.125	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	25936	5.044	ug/l #	51
37) Ethyl Acetate	4.715	43	50532	8.996	ug/l	98
38) Carbon Tetrachloride	5.550	117	31644	6.186	ug/l #	16
40) Benzene	6.044	78	13542	0.900	ug/l	96
43) Isopropyl Acetate	6.336	43	229789	24.148	ug/l	99
48) Methyl methacrylate	7.799	41	153125	33.458	ug/l #	45
49) 1,4-Dioxane	7.629	88	35	0.364	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	191053	34.610	ug/l #	49
52) Toluene	8.720	92	5829	0.626	ug/l	96
54) cis-1,3-Dichloropropene	8.549	75	81506	12.940	ug/l #	59
57) 1,3-Dichloropropane	9.482	76	8806	1.341	ug/l #	42
59) 2-Hexanone	9.482	43	126767	29.707	ug/l #	52
67) Ethyl Benzene	10.195	91	7279	0.420	ug/l	96
68) m/p-Xylenes	10.299	106	3097	0.465	ug/l	96
69) o-Xylene	10.646	106	2207	0.330	ug/l	85
74) N-amyl acetate	10.640	43	48932	6.833	ug/l #	53
76) 1,2,3-Trichloropropane	11.079	75	118214	26.615	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	118214	72.001	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.750	105	2942	0.230	ug/l	96
95) Naphthalene	13.774	128	165353	11.609	ug/l	99

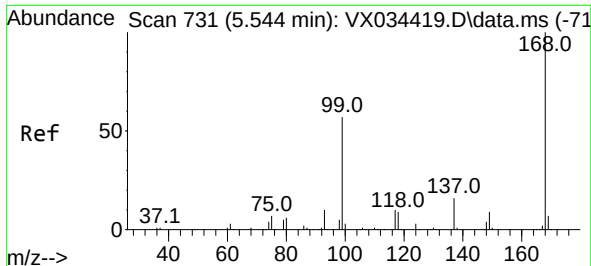
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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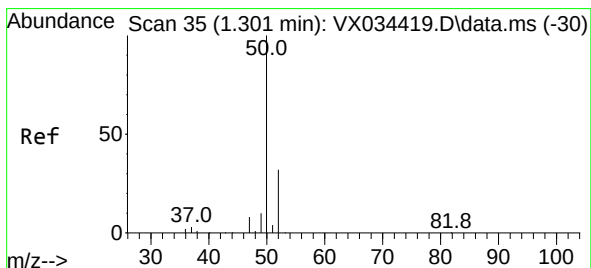
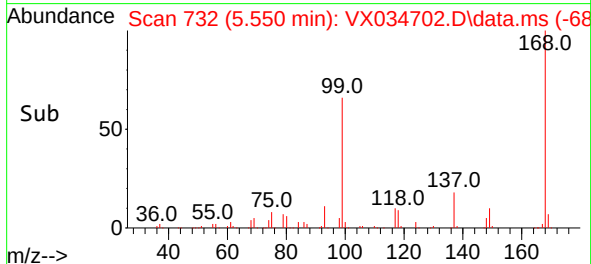
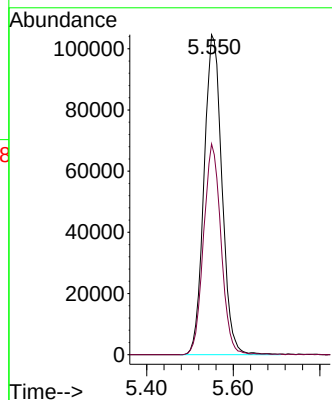
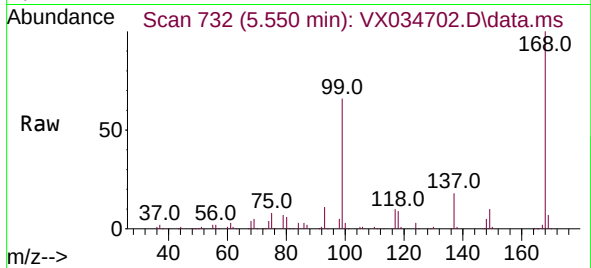




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

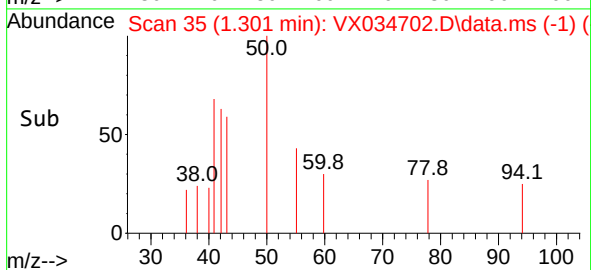
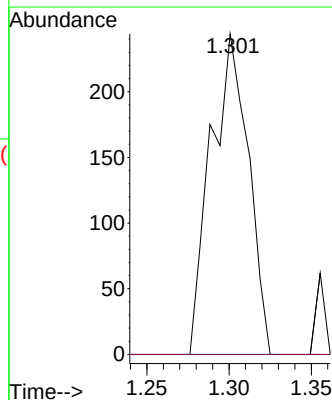
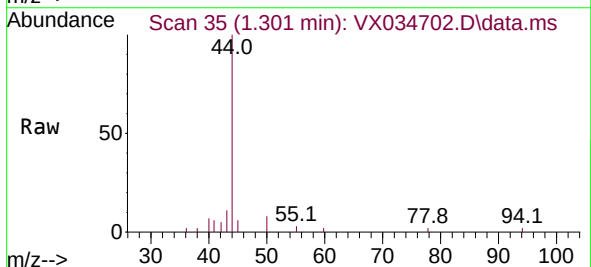
Instrument :
MSVOA_X
ClientSampleId :
WC1-4-20230322

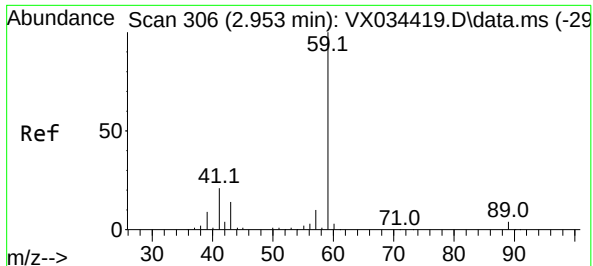
Tgt Ion:168 Resp: 300379
Ion Ratio Lower Upper
168 100
99 65.9 45.7 68.5



#3
Chloromethane
Concen: Below Cal
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

Tgt Ion: 50 Resp: 387
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#





#11

Tert butyl alcohol

Concen: 0.313 ug/l

RT: 2.965 min Scan# 306

Delta R.T. 0.012 min

Lab File: VX034702.D

Acq: 23 Mar 2023 16:39

Instrument :

MSVOA_X

ClientSampleId :

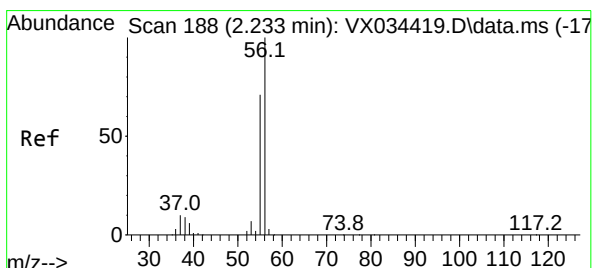
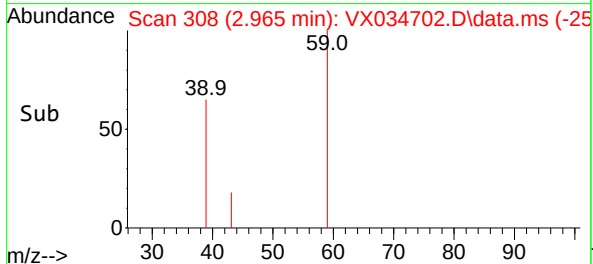
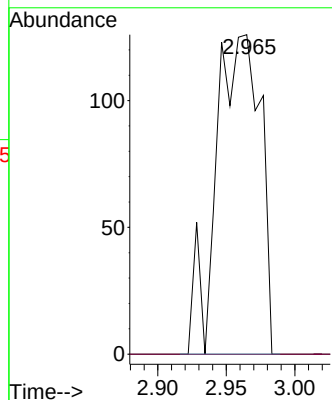
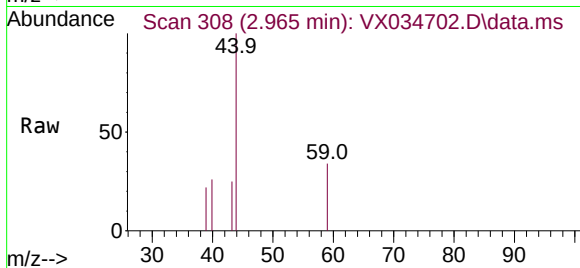
WC1-4-20230322

Tgt Ion: 59 Resp: 285

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



#13

Acrolein

Concen: 0.210 ug/l

RT: 2.221 min Scan# 186

Delta R.T. -0.012 min

Lab File: VX034702.D

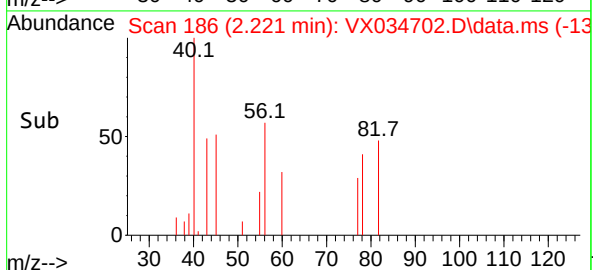
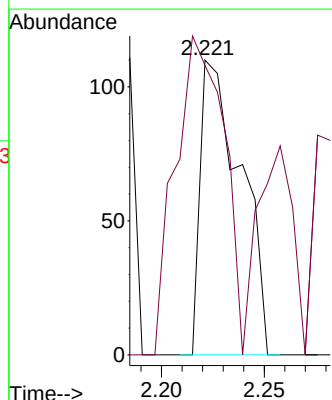
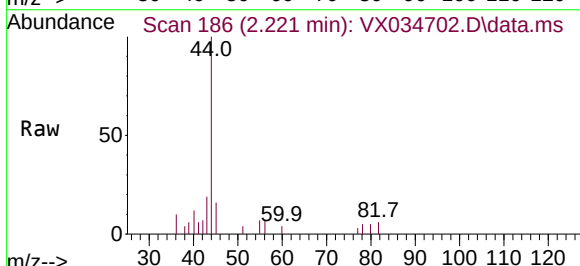
Acq: 23 Mar 2023 16:39

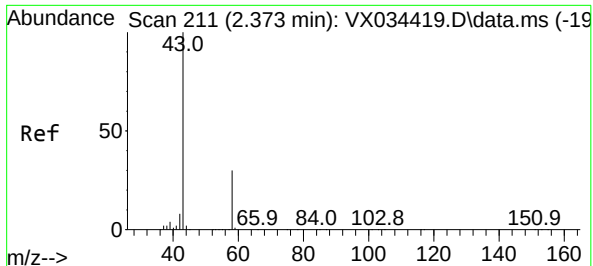
Tgt Ion: 56 Resp: 151

Ion Ratio Lower Upper

56 100

55 129.8 56.6 85.0#

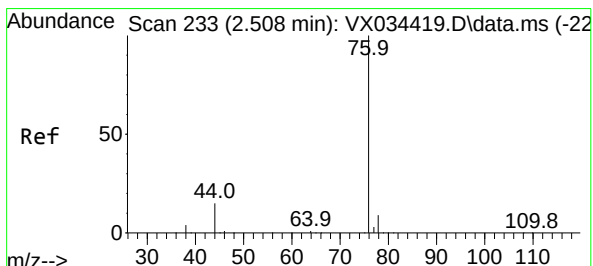
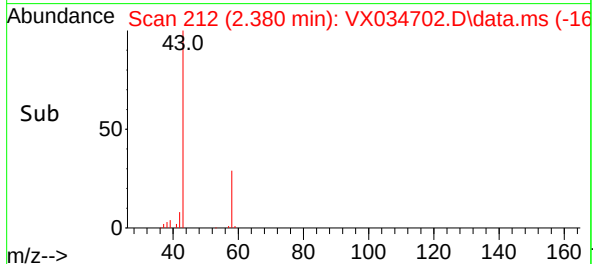
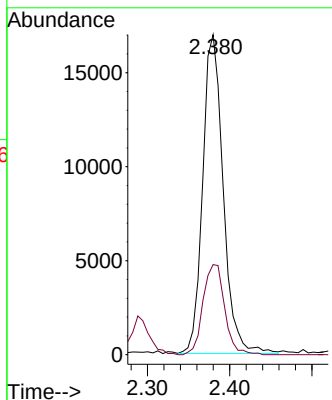
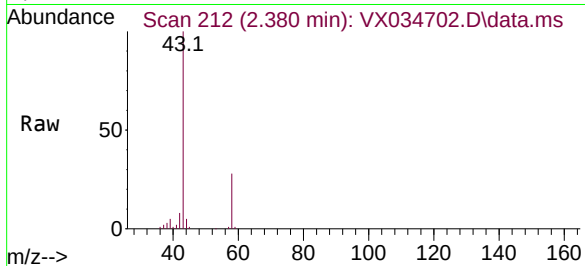




#16
Acetone
Concen: 14.261 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

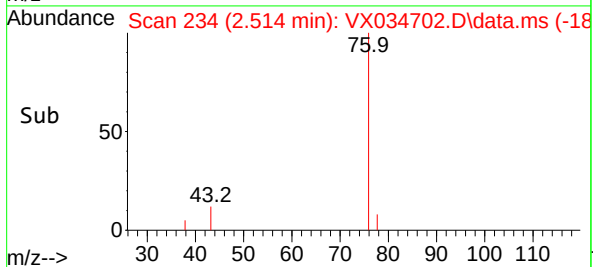
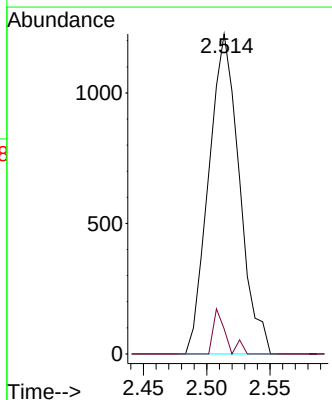
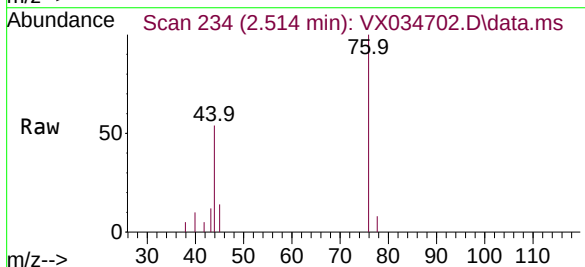
Instrument :
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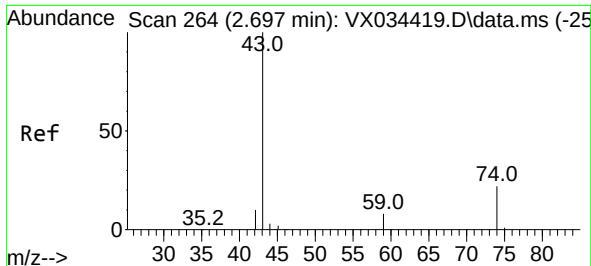
Tgt Ion: 43 Resp: 29355
Ion Ratio Lower Upper
43 100
58 28.3 24.7 37.1



#17
Carbon Disulfide
Concen: 0.223 ug/l
RT: 2.514 min Scan# 234
Delta R.T. 0.006 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

Tgt Ion: 76 Resp: 2066
Ion Ratio Lower Upper
76 100
78 7.8 7.2 10.8

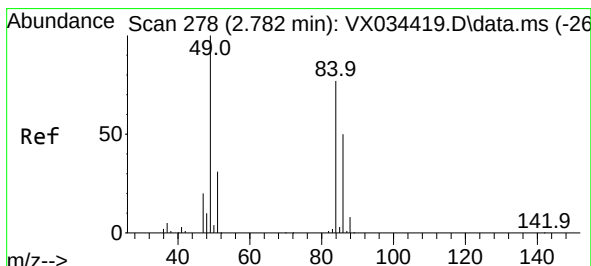
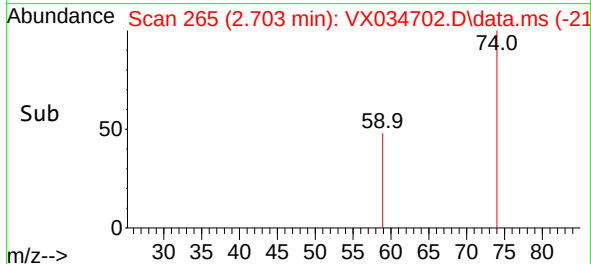
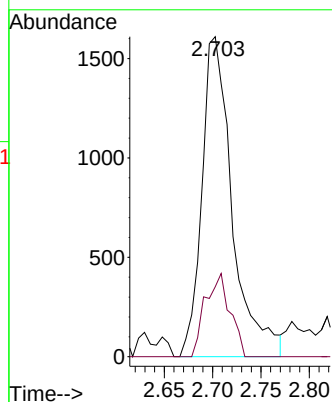
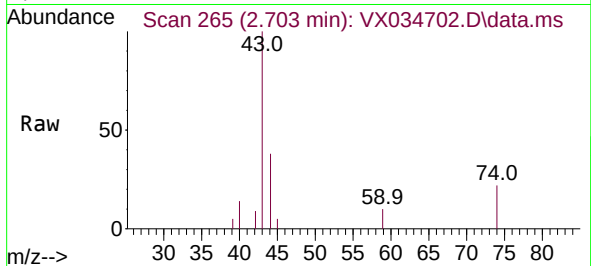




#18
Methyl Acetate
Concen: 0.524 ug/l
RT: 2.703 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

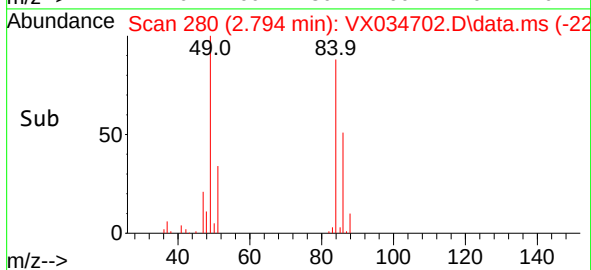
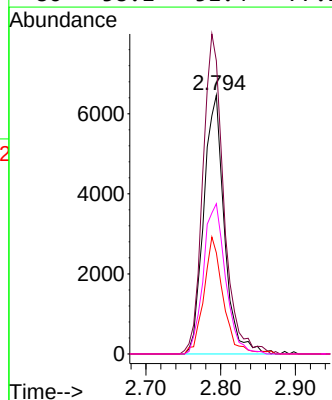
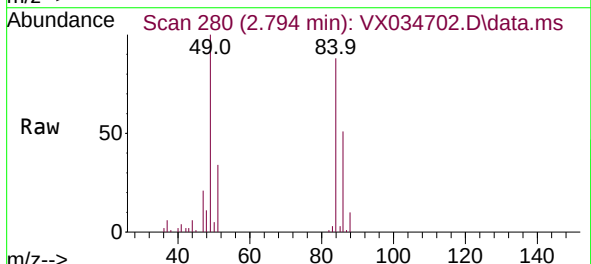
Instrument :
MSVOA_X
ClientSampleId :
WC1-4-20230322

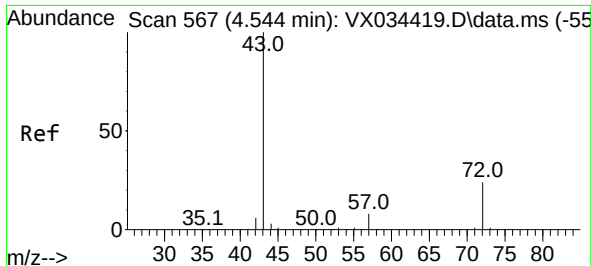
Tgt Ion: 43 Resp: 3526
Ion Ratio Lower Upper
43 100
74 21.1 18.3 27.5



#20
Methylene Chloride
Concen: 3.105 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.012 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

Tgt Ion: 84 Resp: 12403
Ion Ratio Lower Upper
84 100
49 113.3 103.8 155.8
51 39.1 31.8 47.8
86 58.1 51.4 77.2

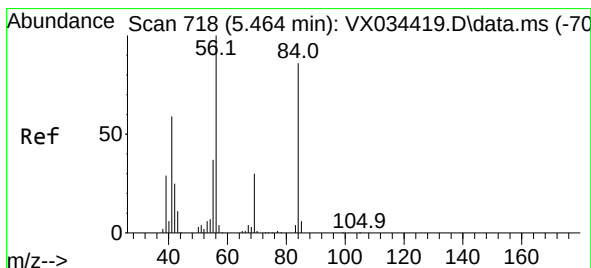
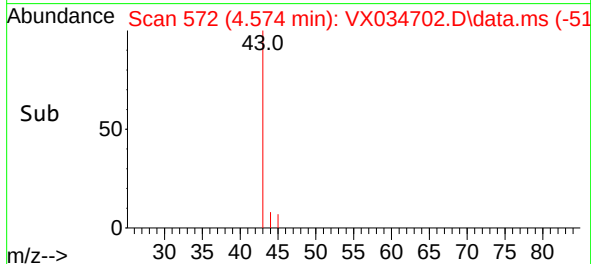
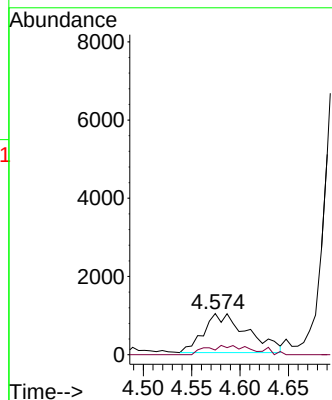
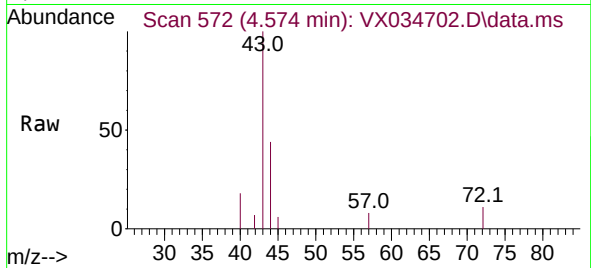




#25
2-Butanone
Concen: 1.067 ug/l
RT: 4.574 min Scan# 51
Delta R.T. 0.031 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

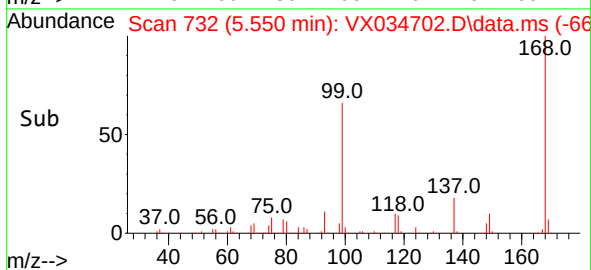
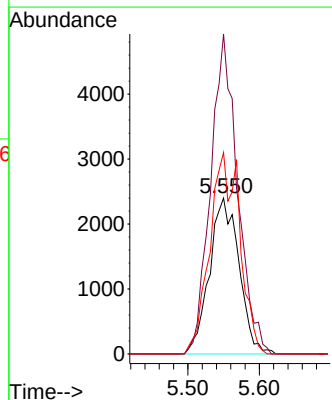
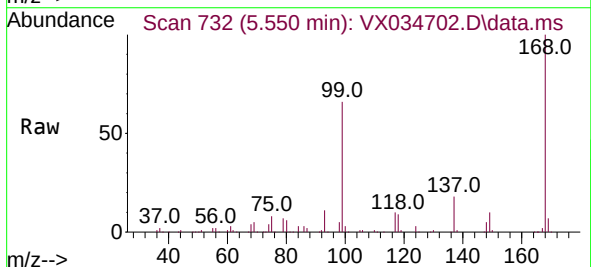
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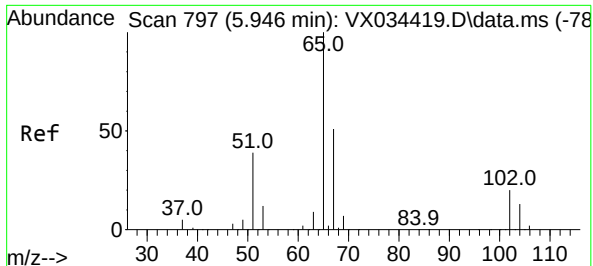
Tgt Ion: 43 Resp: 3144
Ion Ratio Lower Upper
43 100
72 11.9 19.3 28.9#



#31
Cyclohexane
Concen: 1.125 ug/l
RT: 5.550 min Scan# 732
Delta R.T. 0.085 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

Tgt Ion: 56 Resp: 6894
Ion Ratio Lower Upper
56 100
69 205.3 23.7 35.5#
84 129.3 68.5 102.7#





#33

1,2-Dichloroethane-d4

Concen: 50.081 ug/l

RT: 5.958 min Scan# 797

Delta R.T. 0.012 min

Lab File: VX034702.D

Acq: 23 Mar 2023 16:39

Instrument :

MSVOA_X

ClientSampleId :

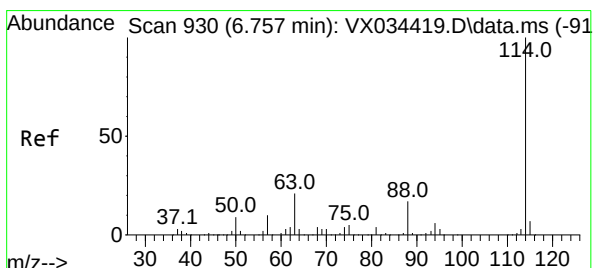
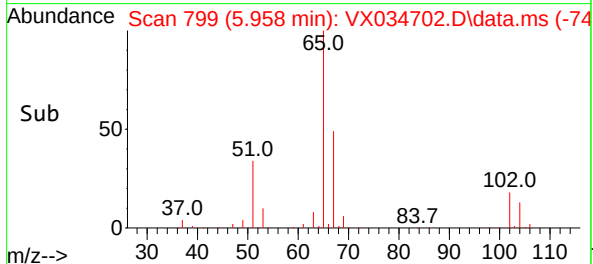
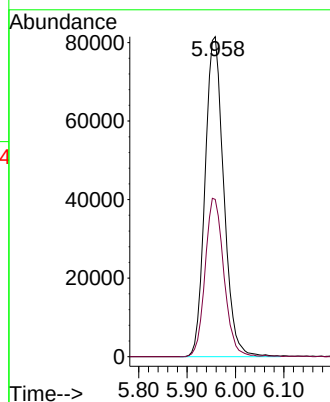
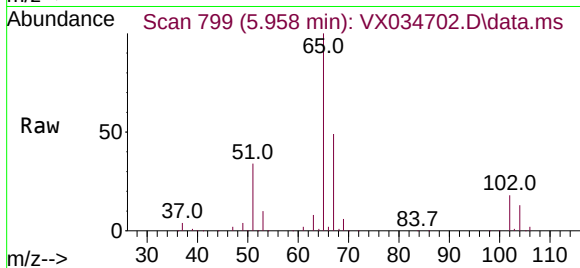
WC1-4-20230322

Tgt Ion: 65 Resp: 218851

Ion Ratio Lower Upper

65 100

67 49.6 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.006 min

Lab File: VX034702.D

Acq: 23 Mar 2023 16:39

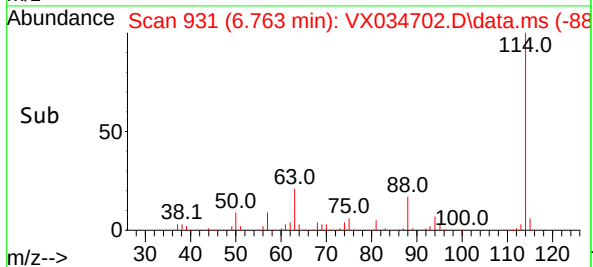
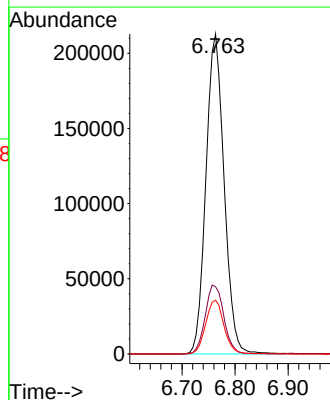
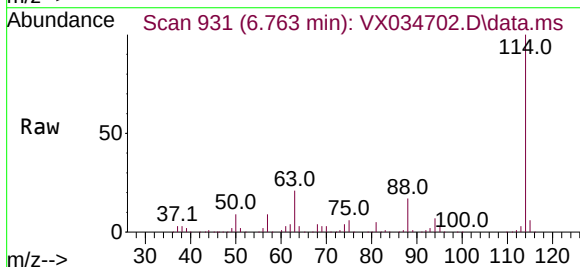
Tgt Ion: 114 Resp: 507022

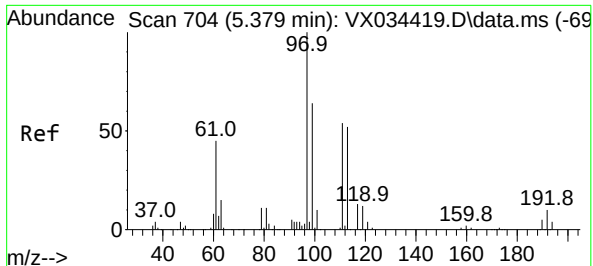
Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.2

88 16.8 0.0 33.2

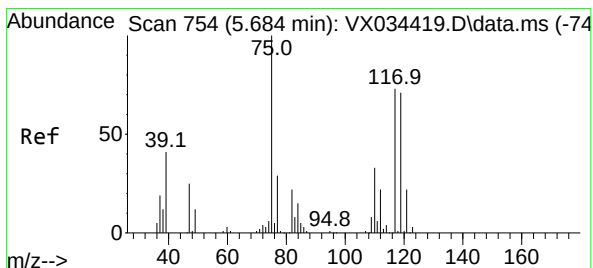
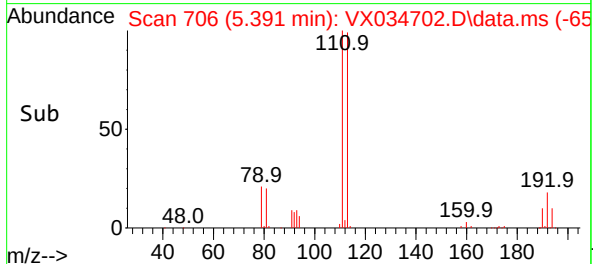
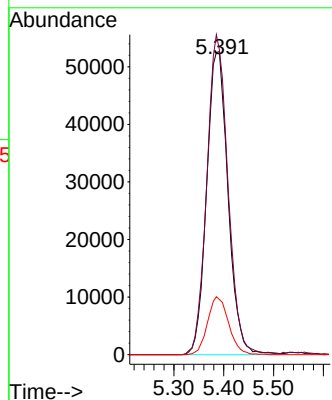
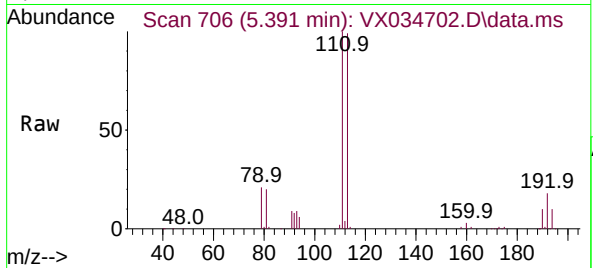




#35
Dibromofluoromethane
Concen: 46.965 ug/l
RT: 5.391 min Scan# 704
Delta R.T. 0.012 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

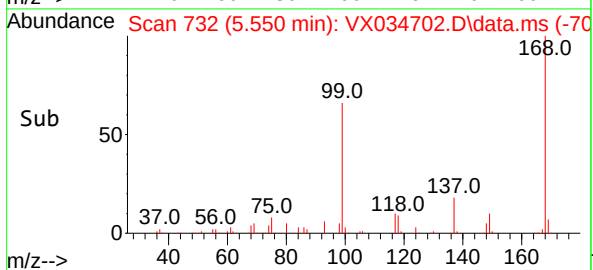
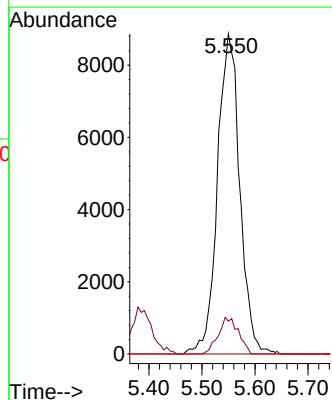
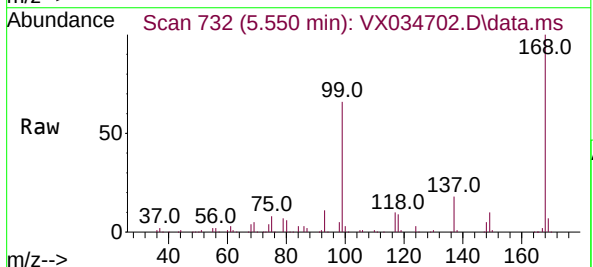
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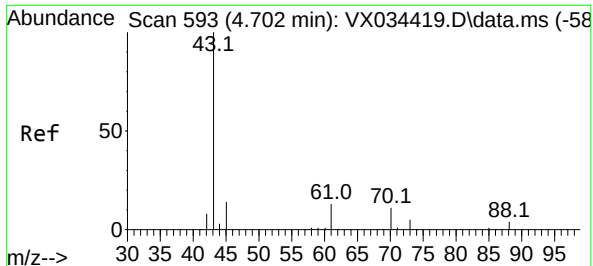
Tgt Ion:113 Resp: 157219
Ion Ratio Lower Upper
113 100
111 104.2 83.7 125.5
192 18.8 15.4 23.2



#36
1,1-Dichloropropene
Concen: 5.044 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.134 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

Tgt Ion: 75 Resp: 25936
Ion Ratio Lower Upper
75 100
110 10.3 17.5 52.5#
77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 8.996 ug/l

RT: 4.715 min Scan# 593

Delta R.T. 0.012 min

Lab File: VX034702.D

Acq: 23 Mar 2023 16:39

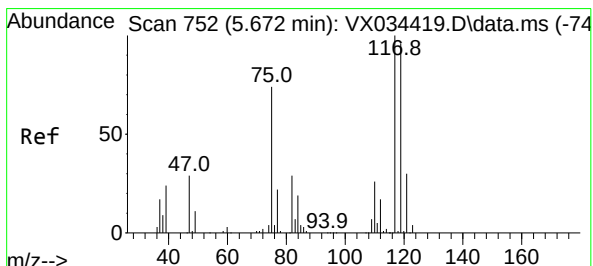
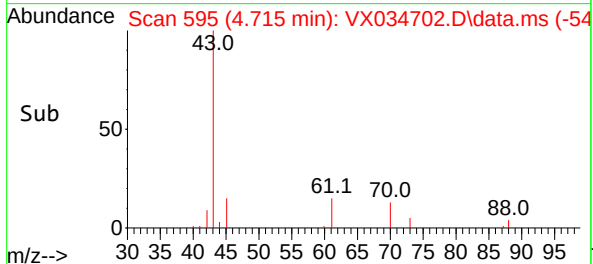
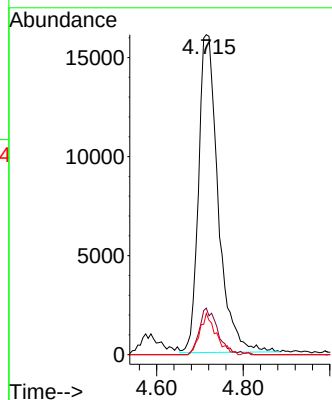
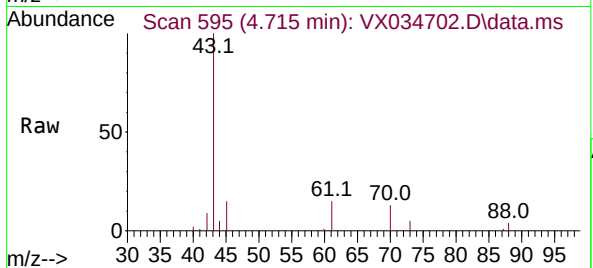
Instrument :

MSVOA_X

ClientSampleId :

WC1-4-20230322

Tgt Ion:	43	Resp:	50532
Ion	Ratio	Lower	Upper
43	100		
61	13.8	10.2	15.4
70	10.8	8.2	12.4



#38

Carbon Tetrachloride

Concen: 6.186 ug/l

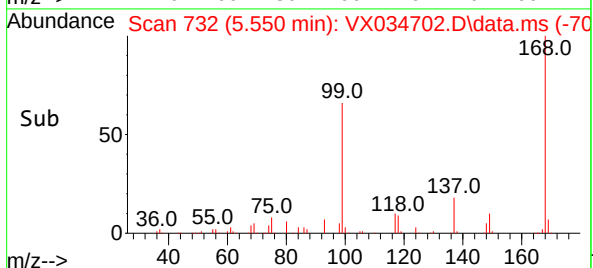
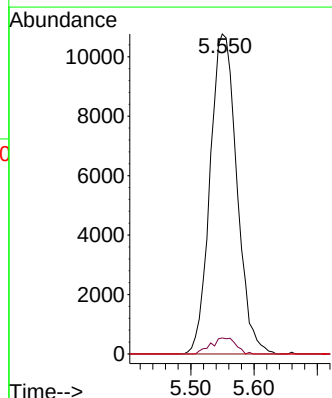
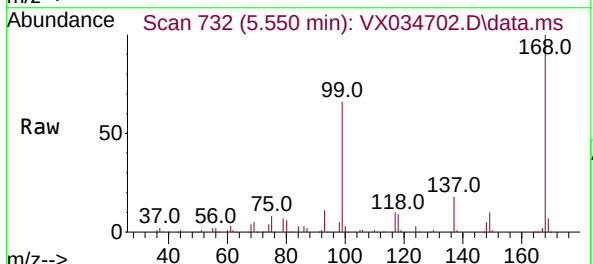
RT: 5.550 min Scan# 732

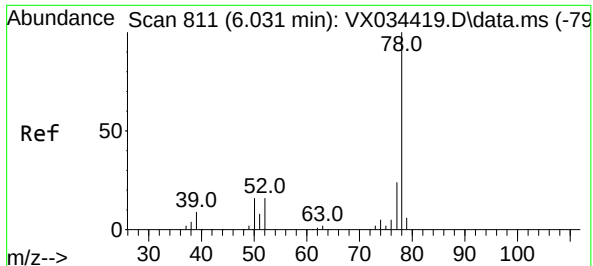
Delta R.T. -0.122 min

Lab File: VX034702.D

Acq: 23 Mar 2023 16:39

Tgt Ion:	117	Resp:	31644
Ion	Ratio	Lower	Upper
117	100		
119	5.0	76.6	114.8#
121	0.0	23.8	35.6#





#40

Benzene

Concen: 0.900 ug/l

RT: 6.044 min Scan# 811

Delta R.T. 0.012 min

Lab File: VX034702.D

Acq: 23 Mar 2023 16:39

Instrument :

MSVOA_X

ClientSampleId :

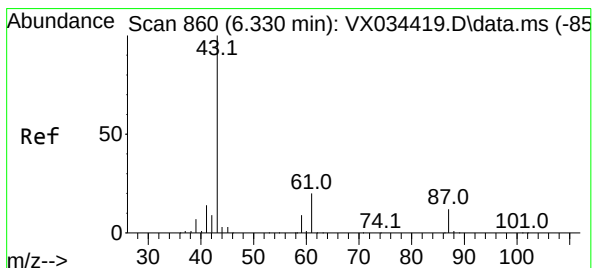
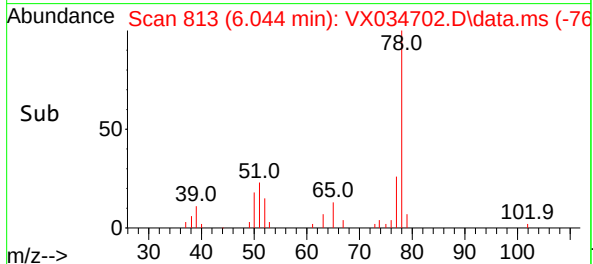
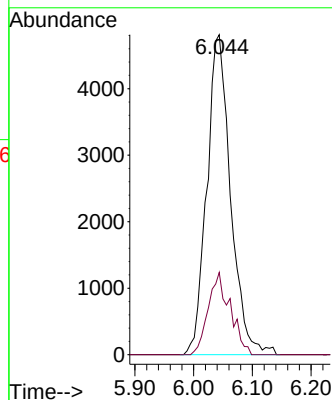
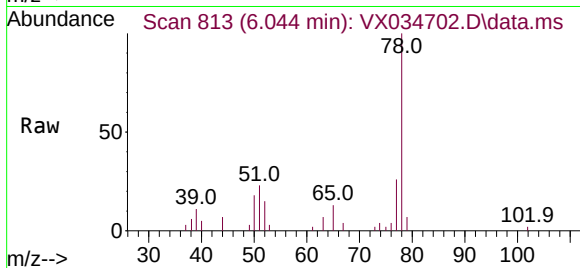
WC1-4-20230322

Tgt Ion: 78 Resp: 13542

Ion Ratio Lower Upper

78 100

77 25.7 19.0 28.4



#43

Isopropyl Acetate

Concen: 24.148 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.006 min

Lab File: VX034702.D

Acq: 23 Mar 2023 16:39

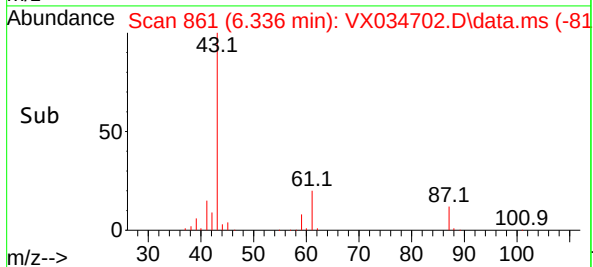
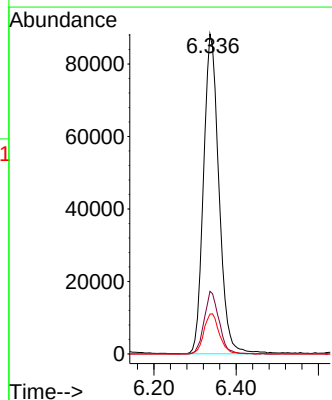
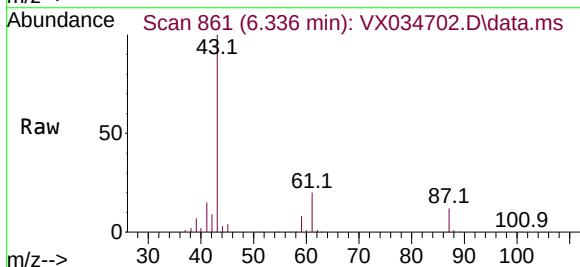
Tgt Ion: 43 Resp: 229789

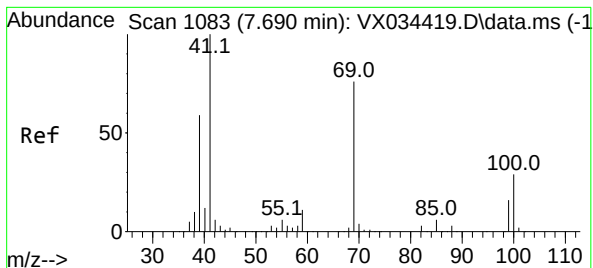
Ion Ratio Lower Upper

43 100

61 18.8 15.2 22.8

87 12.6 9.8 14.8





#48

Methyl methacrylate

Concen: 33.458 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.110 min

Lab File: VX034702.D

Acq: 23 Mar 2023 16:39

Instrument :

MSVOA_X

ClientSampleId :

WC1-4-20230322

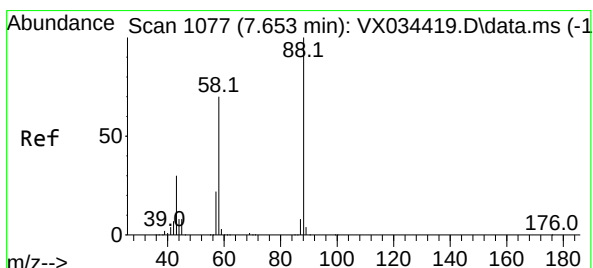
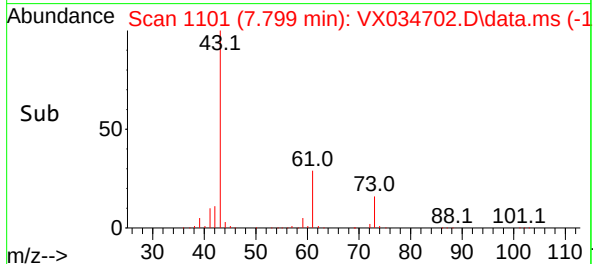
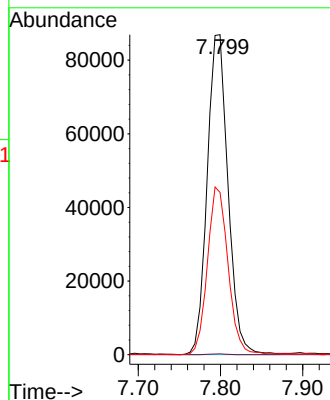
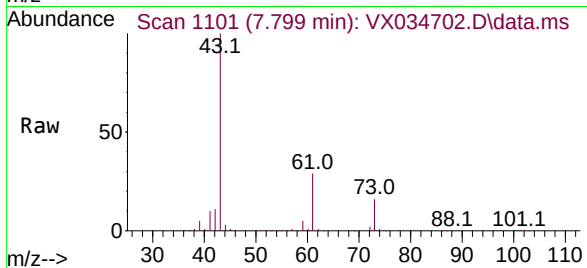
Tgt Ion: 41 Resp: 153125

Ion Ratio Lower Upper

41 100

69 0.2 62.2 93.4#

39 51.9 47.7 71.5



#49

1,4-Dioxane

Concen: 0.364 ug/l

RT: 7.629 min Scan# 1073

Delta R.T. -0.024 min

Lab File: VX034702.D

Acq: 23 Mar 2023 16:39

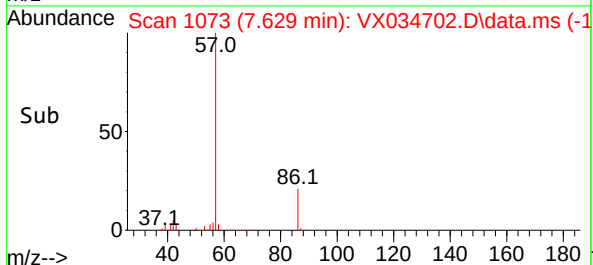
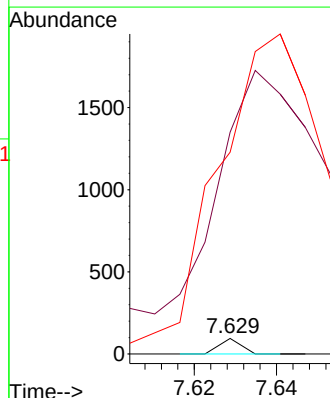
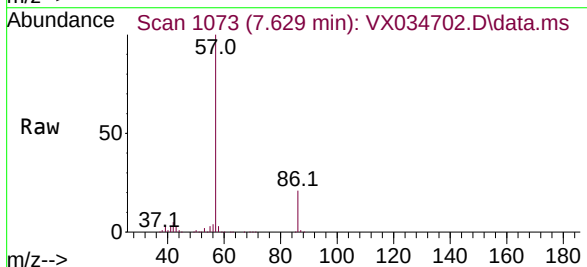
Tgt Ion: 88 Resp: 35

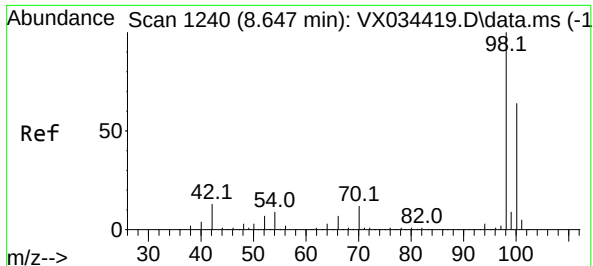
Ion Ratio Lower Upper

88 100

43 0.0 27.7 41.5#

58 10554.3 56.8 85.2#

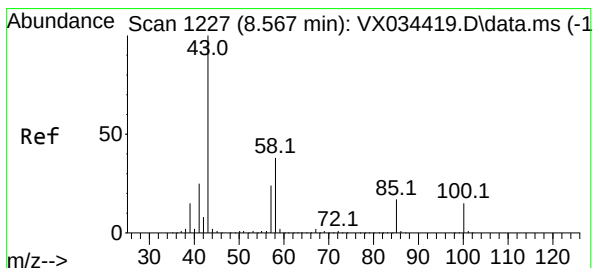
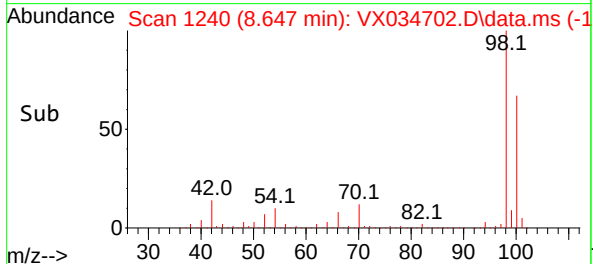
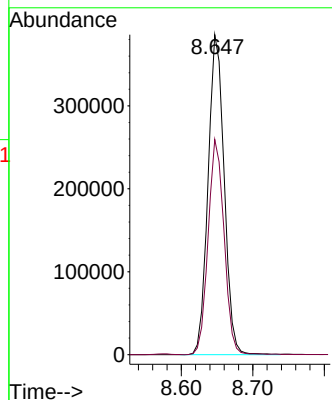
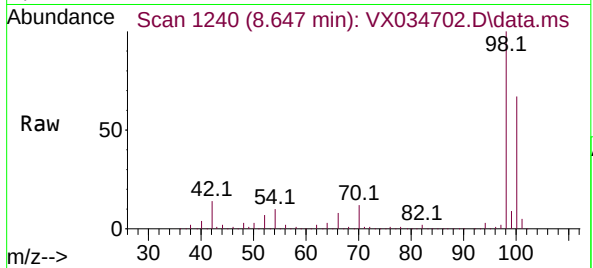




#50
Toluene-d8
Concen: 48.286 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

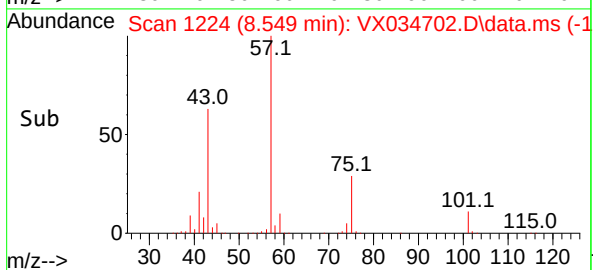
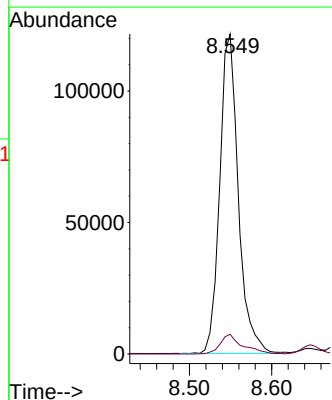
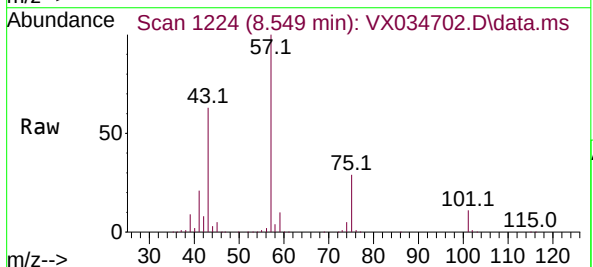
Instrument :
MSVOA_X
ClientSampleId :
WC1-4-20230322

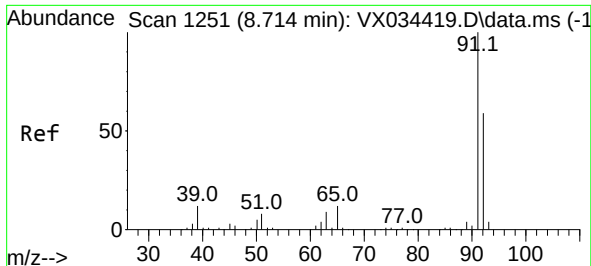
Tgt Ion: 98 Resp: 603417
Ion Ratio Lower Upper
98 100
100 66.6 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 34.610 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.018 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

Tgt Ion: 43 Resp: 191053
Ion Ratio Lower Upper
43 100
58 7.4 30.6 46.0#





#52

Toluene

Concen: 0.626 ug/l

RT: 8.720 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX034702.D

Acq: 23 Mar 2023 16:39

Instrument :

MSVOA_X

ClientSampleId :

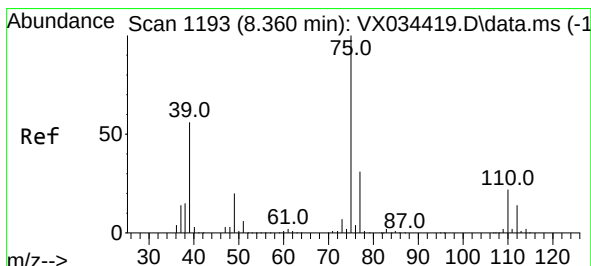
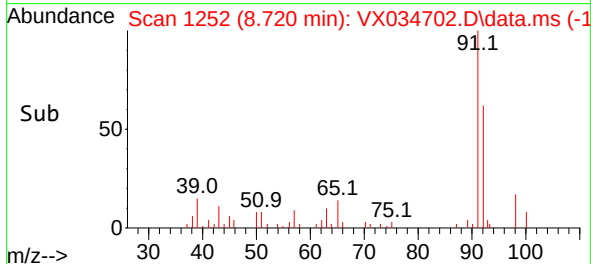
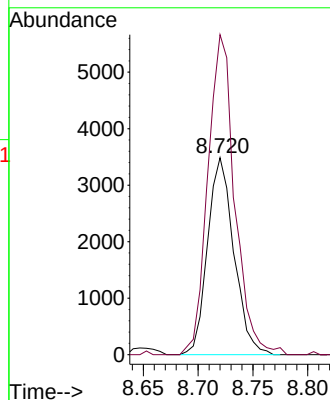
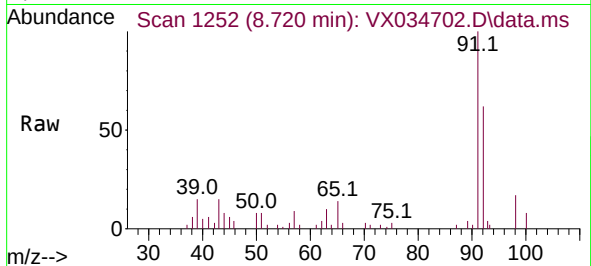
WC1-4-20230322

Tgt Ion: 92 Resp: 5829

Ion Ratio Lower Upper

92 100

91 166.1 136.8 205.2



#54

cis-1,3-Dichloropropene

Concen: 12.940 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.189 min

Lab File: VX034702.D

Acq: 23 Mar 2023 16:39

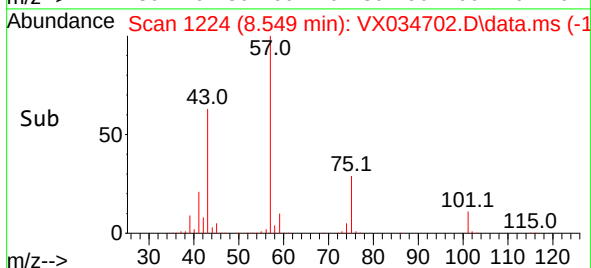
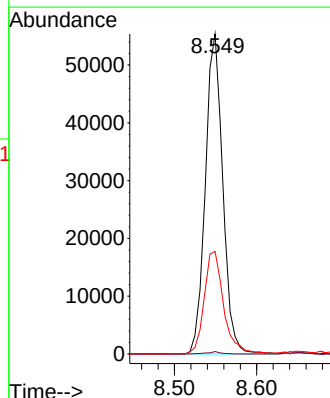
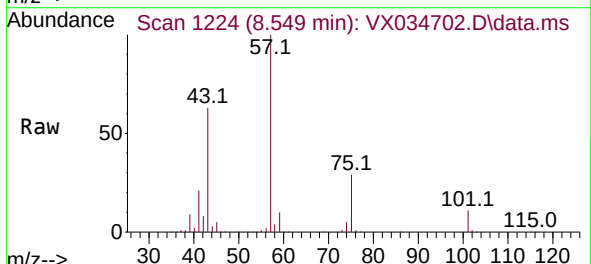
Tgt Ion: 75 Resp: 81506

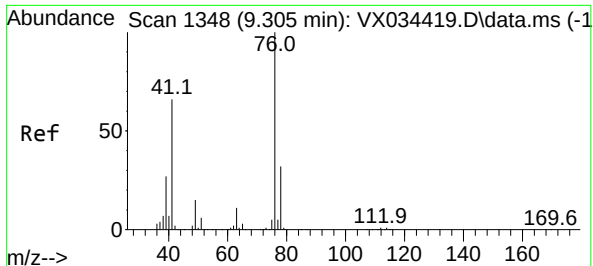
Ion Ratio Lower Upper

75 100

77 0.7 25.0 37.4#

39 32.1 44.6 66.8#

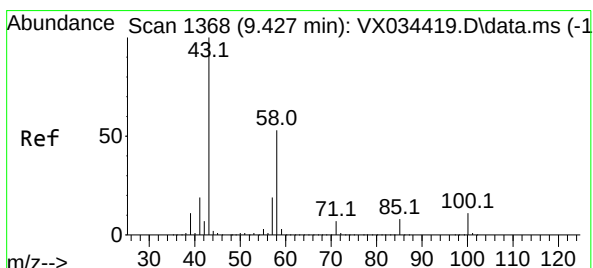
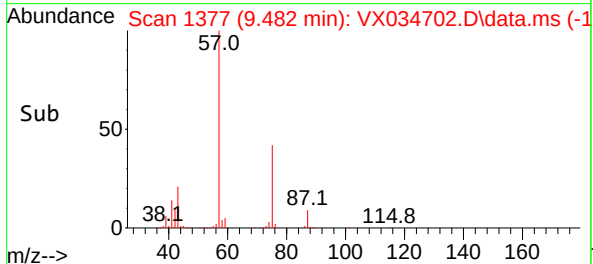
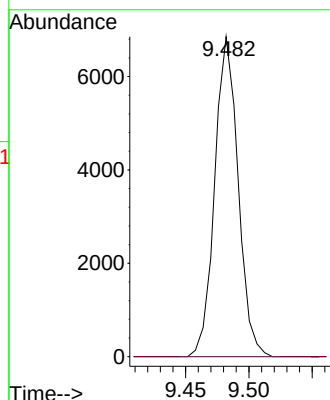
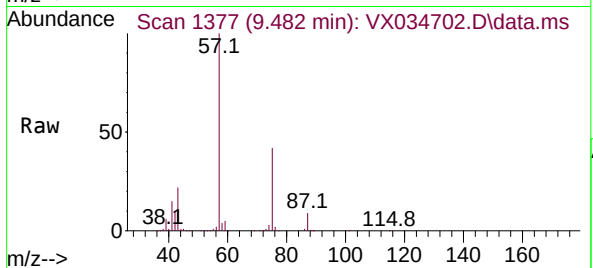




#57
1,3-Dichloropropane
Concen: 1.341 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

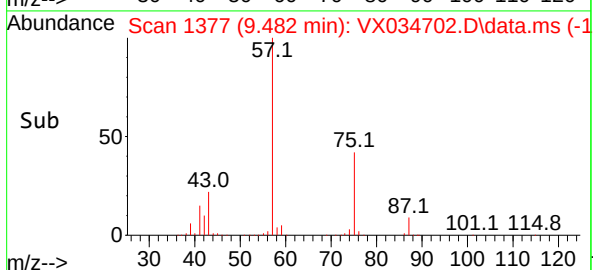
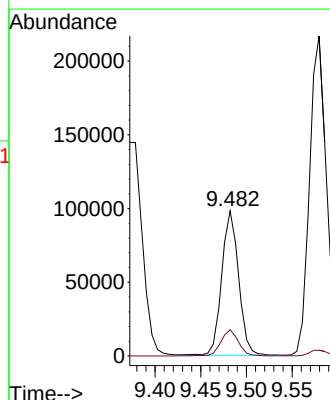
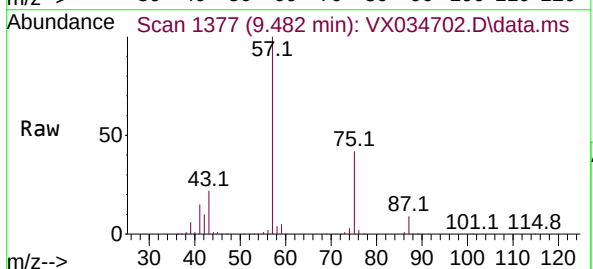
Instrument :
MSVOA_X
ClientSampleId :
WC1-4-20230322

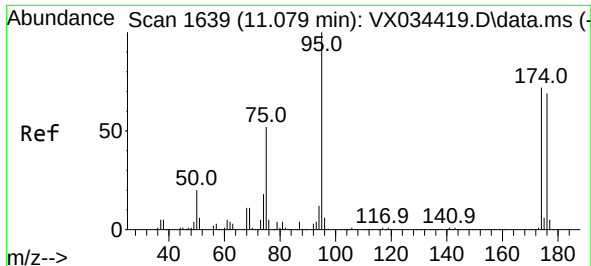
Tgt Ion: 76 Resp: 8806
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#



#59
2-Hexanone
Concen: 29.707 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.055 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

Tgt Ion: 43 Resp: 126767
Ion Ratio Lower Upper
43 100
58 18.8 26.3 78.9#

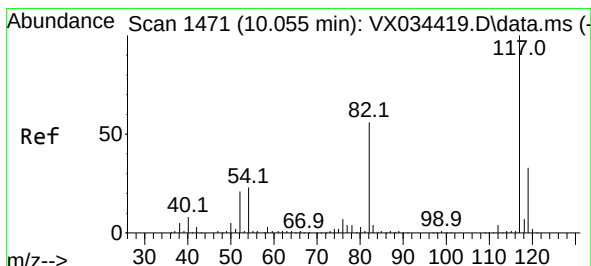
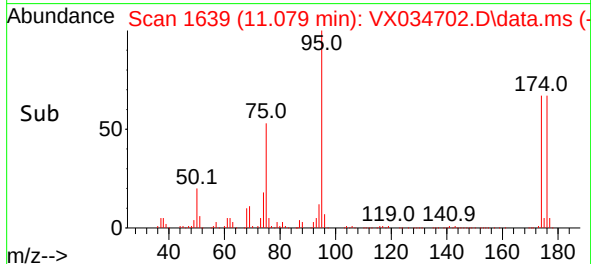
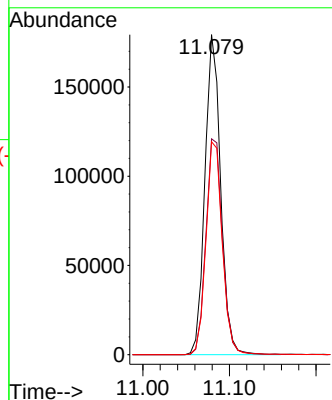
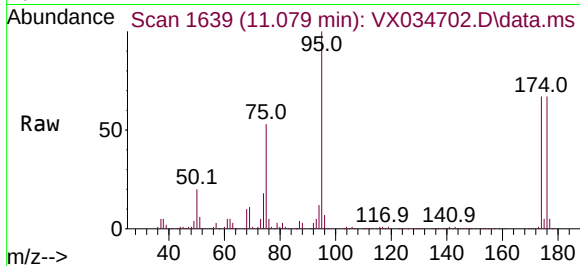




#62
4-Bromofluorobenzene
Concen: 44.774 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

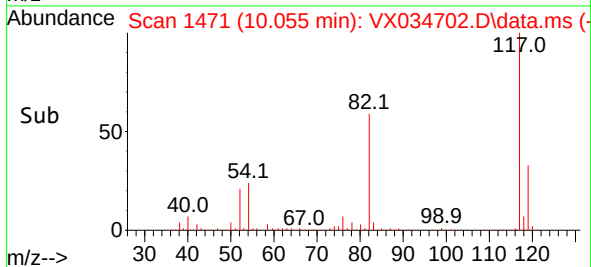
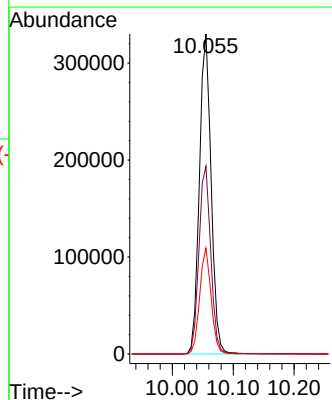
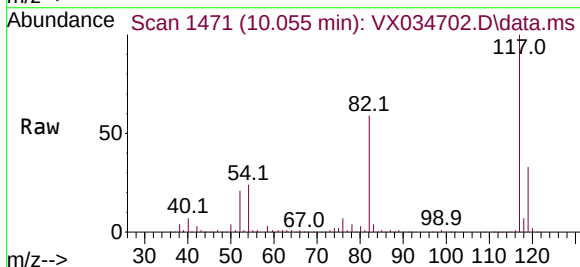
Instrument :
MSVOA_X
ClientSampleId :
WC1-4-20230322

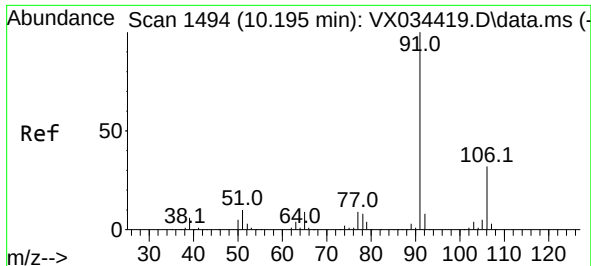
Tgt Ion: 95 Resp: 226010
Ion Ratio Lower Upper
95 100
174 71.5 0.0 147.4
176 69.1 0.0 140.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

Tgt Ion: 117 Resp: 441647
Ion Ratio Lower Upper
117 100
82 58.7 45.0 67.4
119 33.0 26.0 39.0





#67

Ethyl Benzene

Concen: 0.420 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX034702.D

Acq: 23 Mar 2023 16:39

Instrument :

MSVOA_X

ClientSampleId :

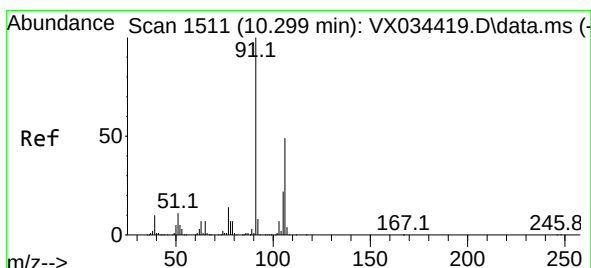
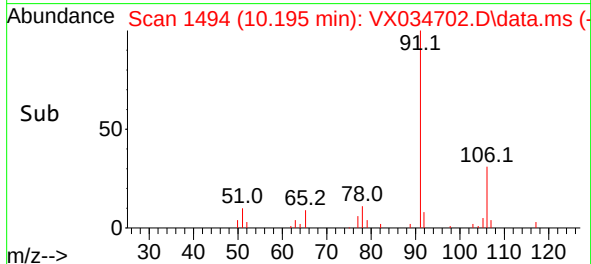
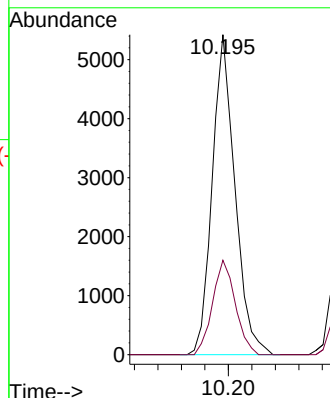
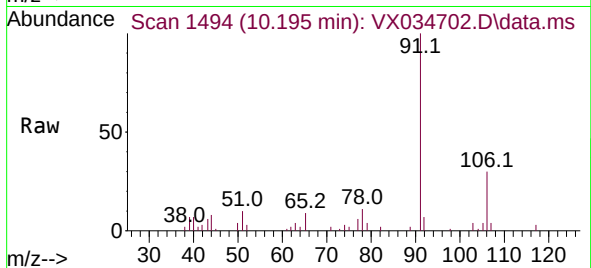
WC1-4-20230322

Tgt Ion: 91 Resp: 7279

Ion Ratio Lower Upper

91 100

106 29.5 25.6 38.4



#68

m/p-Xylenes

Concen: 0.465 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX034702.D

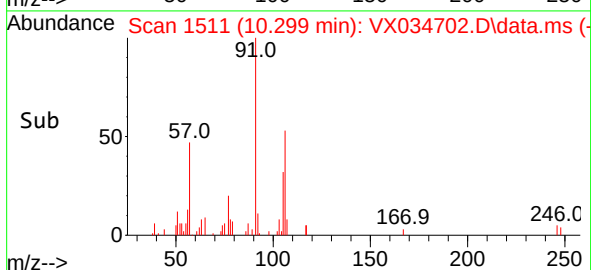
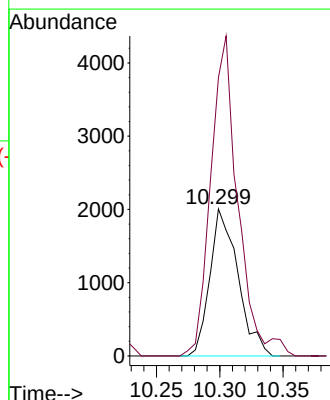
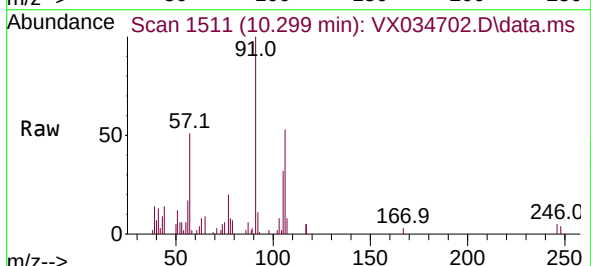
Acq: 23 Mar 2023 16:39

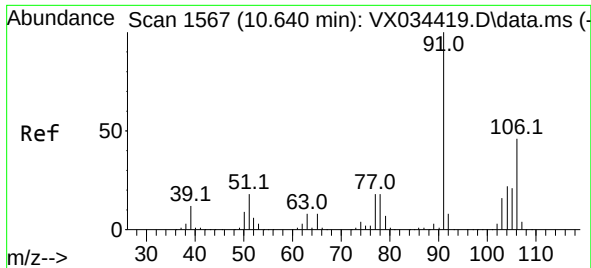
Tgt Ion: 106 Resp: 3097

Ion Ratio Lower Upper

106 100

91 210.7 164.0 246.0

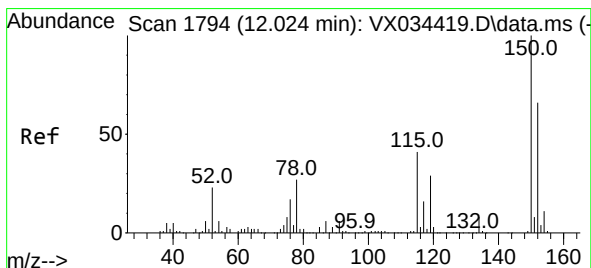
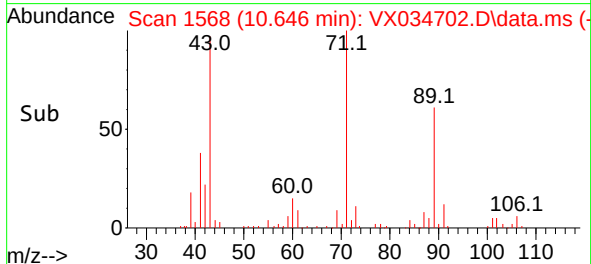
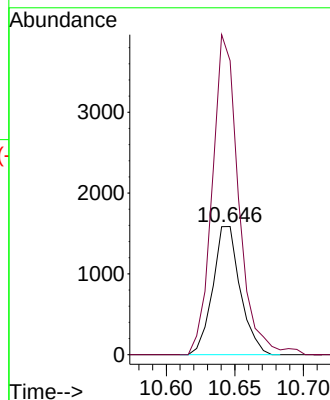
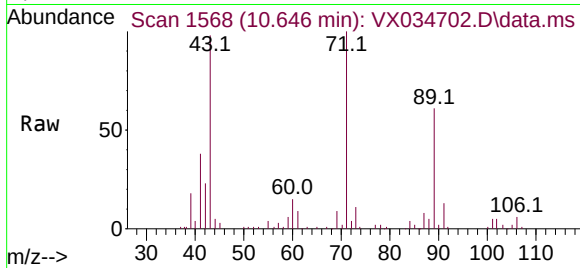




#69
o-Xylene
Concen: 0.330 ug/l
RT: 10.646 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

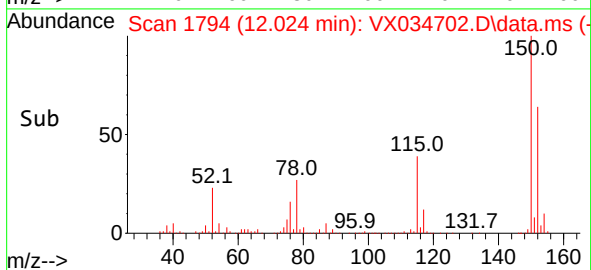
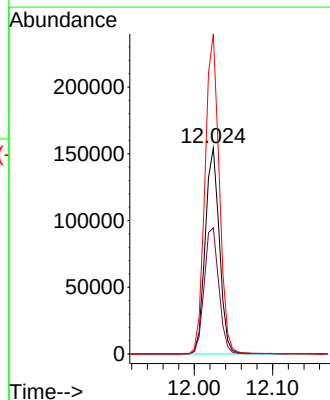
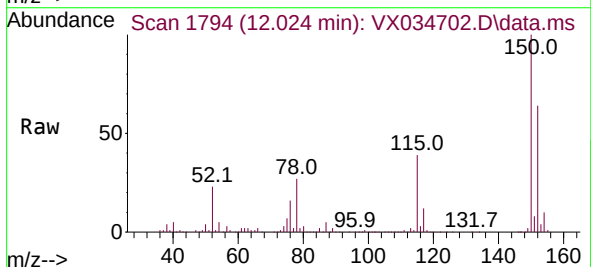
Instrument :
MSVOA_X
ClientSampleId :
WC1-4-20230322

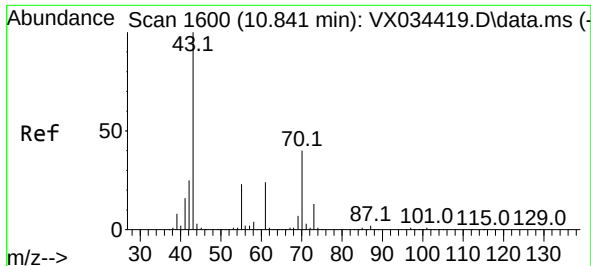
Tgt Ion:106 Resp: 2207
Ion Ratio Lower Upper
106 100
91 240.1 108.5 325.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

Tgt Ion:152 Resp: 193444
Ion Ratio Lower Upper
152 100
115 63.3 45.0 135.0
150 156.6 0.0 352.4

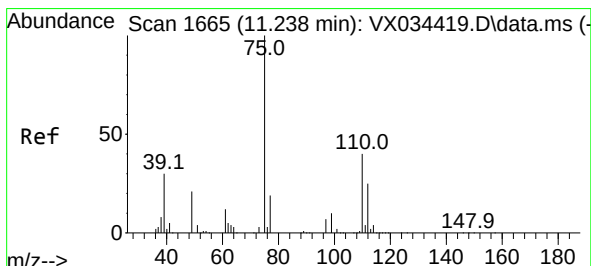
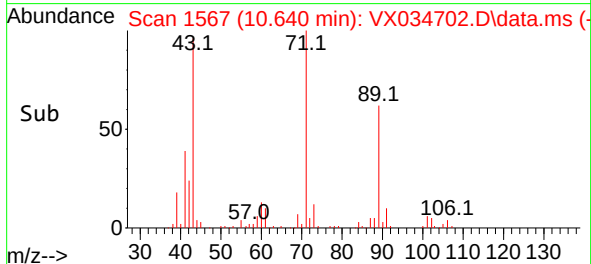
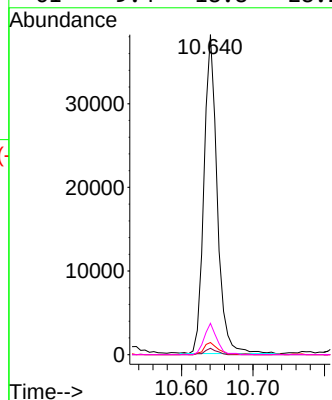
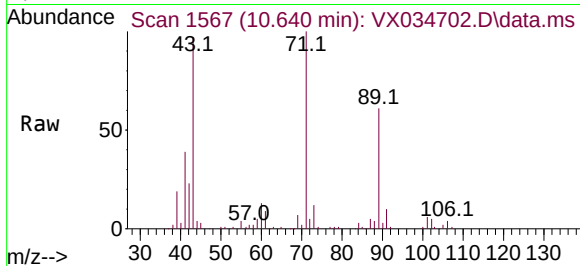




#74
N-amy1 acetate
Concen: 6.833 ug/l
RT: 10.640 min Scan# 1639
Delta R.T. -0.201 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

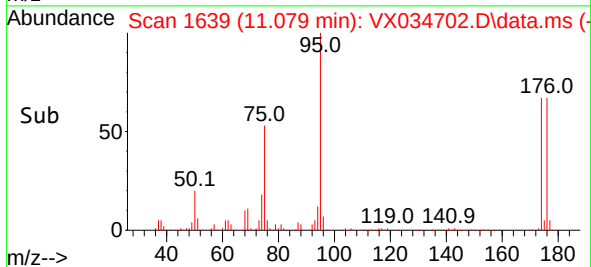
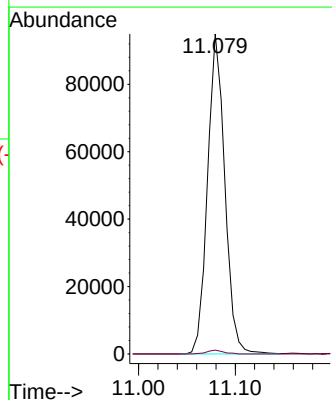
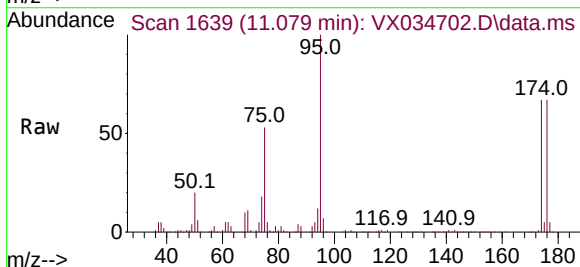
Instrument :
MSVOA_X
ClientSampleId :
WC1-4-20230322

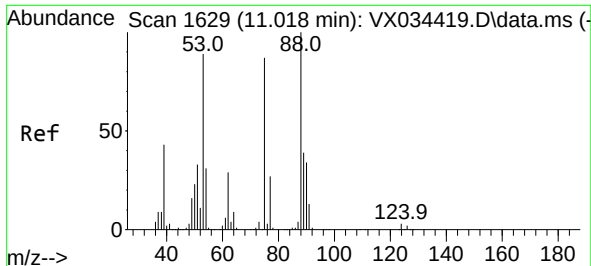
Tgt Ion: 43	Resp: 48932
Ion Ratio	Lower Upper
43 100	
70 1.8	32.1 48.1#
55 4.2	18.3 27.5#
61 9.4	18.8 28.2#



#76
1,2,3-Trichloropropane
Concen: 26.615 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

Tgt Ion: 75	Resp: 118214
Ion Ratio	Lower Upper
75 100	
77 1.1	21.6 64.8#

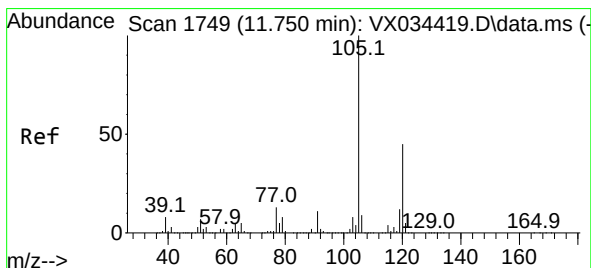
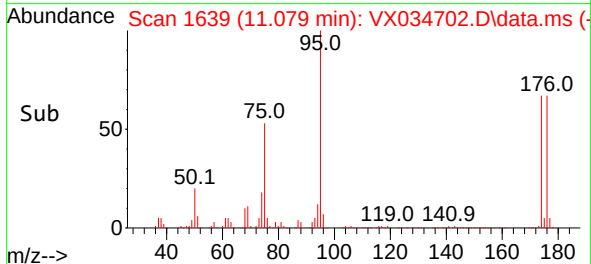
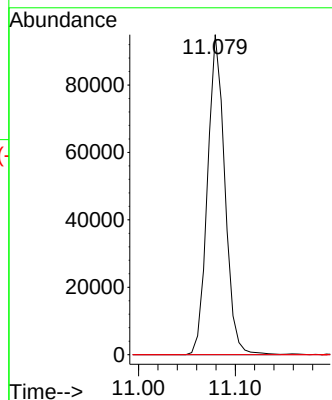
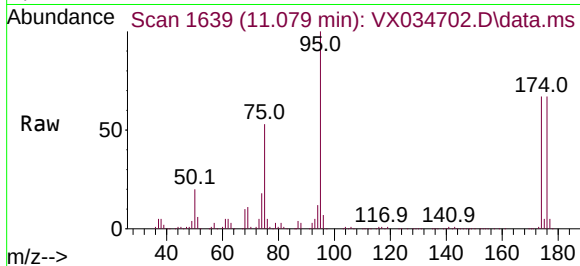




#81
trans-1,4-Dichloro-2-butene
Concen: 72.001 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

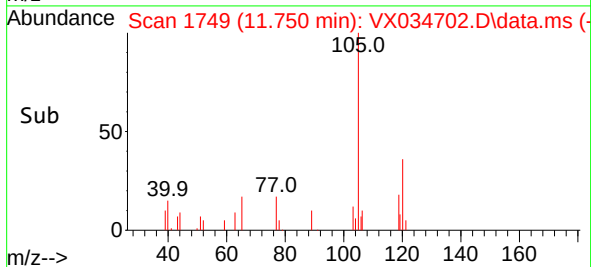
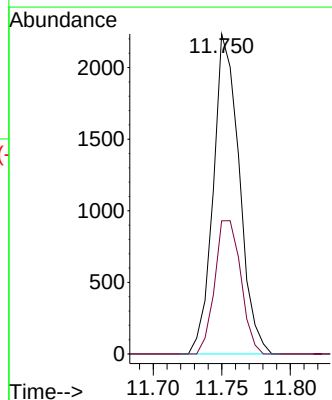
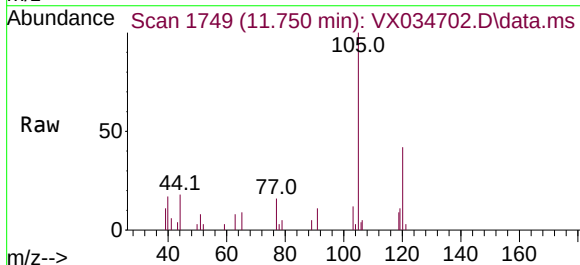
Instrument :
MSVOA_X
ClientSampleId :
WC1-4-20230322

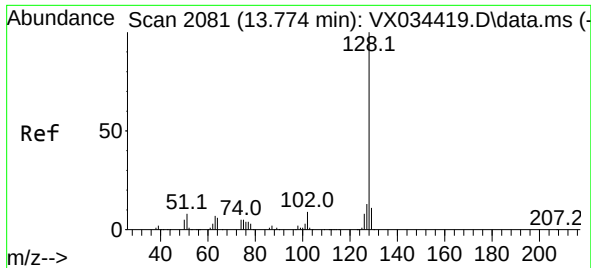
Tgt Ion: 75 Resp: 118214
Ion Ratio Lower Upper
75 100
53 0.0 82.6 124.0#
89 0.0 36.9 55.3#



#84
1,2,4-Trimethylbenzene
Concen: 0.230 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX034702.D
Acq: 23 Mar 2023 16:39

Tgt Ion: 105 Resp: 2942
Ion Ratio Lower Upper
105 100
120 41.8 22.4 67.0





#95

Naphthalene

Concen: 11.609 ug/l

RT: 13.774 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX034702.D

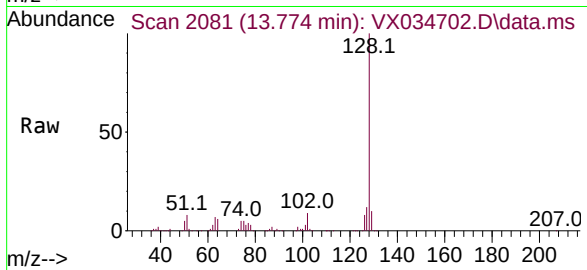
Acq: 23 Mar 2023 16:39

Instrument :

MSVOA_X

ClientSampleId :

WC1-4-20230322



Tgt Ion:128 Resp: 165353

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

129 11.3 8.6 13.0

