

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051623\
 Data File : VN077701.D
 Acq On : 16 May 2023 18:38
 Operator : JC\MD
 Sample : 02798-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WATERWATCH-AVE-SAMPLE

Quant Time: May 17 04:08:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

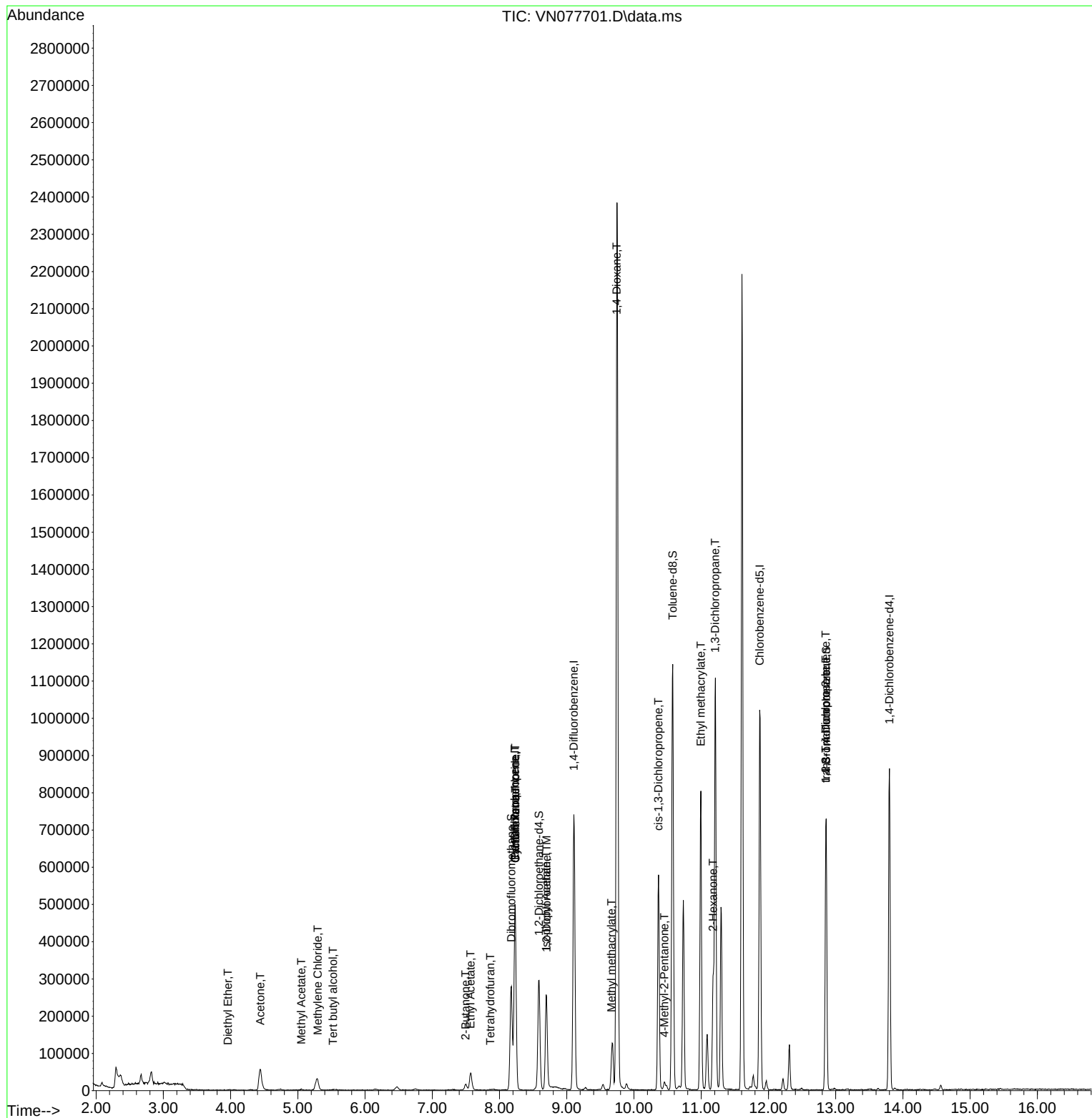
Internal Standards						
1) Pentafluorobenzene	8.230	168	347779	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	648562	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	592765	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	227974	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	249711	47.988	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.980%		
35) Dibromofluoromethane	8.177	113	205489	48.588	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.180%		
50) Toluene-d8	10.577	98	812124	49.889	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.780%		
62) 4-Bromofluorobenzene	12.859	95	267111	46.460	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.920%		
Target Compounds						Qvalue
3) Chloromethane	2.359	50	3553	Below Cal	#	62
8) Diethyl Ether	3.959	74	729	0.287	ug/l	60
11) Tert butyl alcohol	5.524	59	910	1.267	ug/l #	83
13) Acrolein	4.189	56	83	Below Cal	#	16
16) Acetone	4.442	43	104731	63.972	ug/l	93
18) Methyl Acetate	5.053	43	3682	0.536	ug/l #	75
20) Methylene Chloride	5.295	84	25643	4.208	ug/l #	88
25) 2-Butanone	7.494	43	25558	9.980	ug/l #	80
29) Tetrahydrofuran	7.865	42	1125	0.671	ug/l #	35
31) Cyclohexane	8.236	56	9075	1.283	ug/l #	49
36) 1,1-Dichloropropene	8.230	75	31057	5.021	ug/l #	47
37) Ethyl Acetate	7.571	43	70478	12.783	ug/l	96
38) Carbon Tetrachloride	8.236	117	39352	6.300	ug/l #	16
42) 1,2-Dichloroethane	8.700	62	1809	0.273	ug/l #	73
43) Isopropyl Acetate	8.694	43	287231	31.894	ug/l #	84
48) Methyl methacrylate	9.665	41	7385	1.730	ug/l #	29
49) 1,4-Dioxane	9.741	88	100	1.240	ug/l #	30
51) 4-Methyl-2-Pentanone	10.453	43	21273	3.974	ug/l #	69
54) cis-1,3-Dichloropropene	10.365	75	107788	14.480	ug/l #	67
56) Ethyl methacrylate	10.994	69	2436	0.357	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	12072	1.561	ug/l #	42
59) 2-Hexanone	11.177	43	229237	57.896	ug/l #	19
76) 1,2,3-Trichloropropane	12.853	75	142871	25.024	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	142871	79.991	ug/l #	15

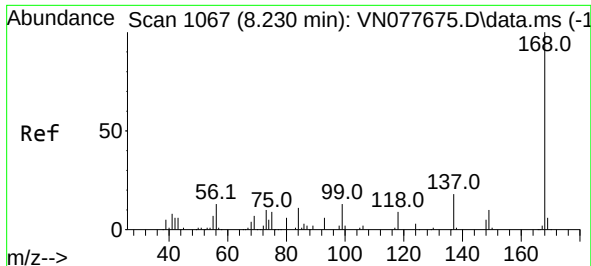
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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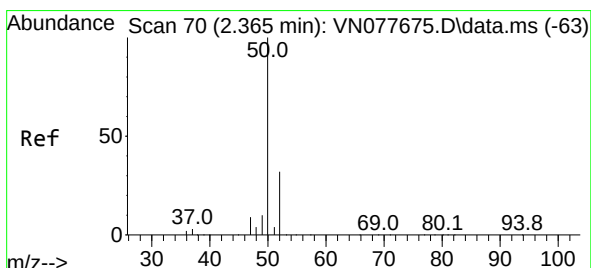
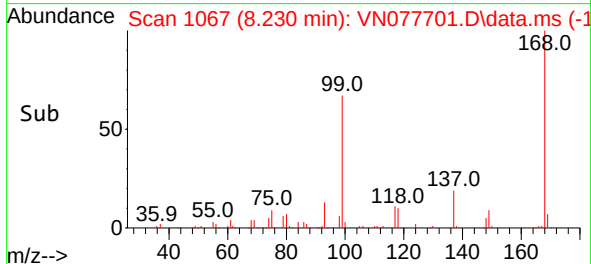
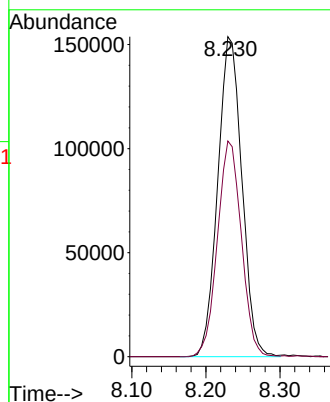
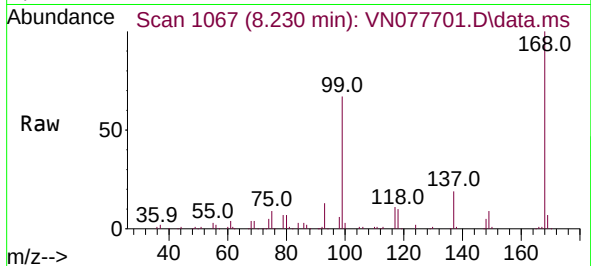




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

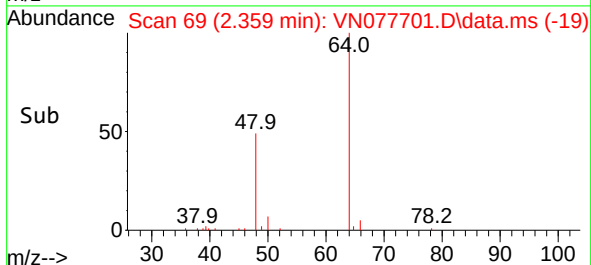
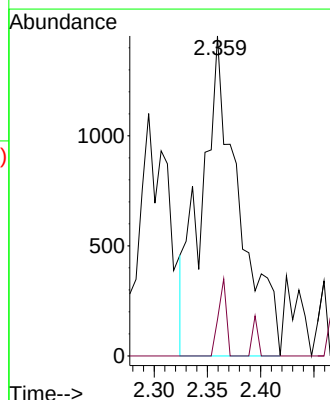
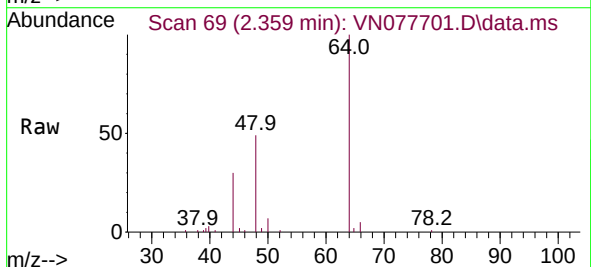
Instrument :
MSVOA_N
ClientSampleId :
WATERWITCH-AVE-SAMPLE

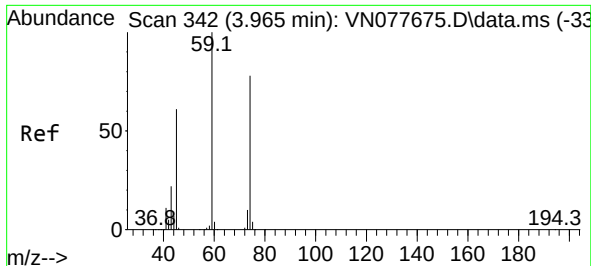
Tgt Ion:168 Resp: 347779
Ion Ratio Lower Upper
168 100
99 67.4 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. -0.006 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion: 50 Resp: 3553
Ion Ratio Lower Upper
50 100
52 11.3 26.5 39.7#

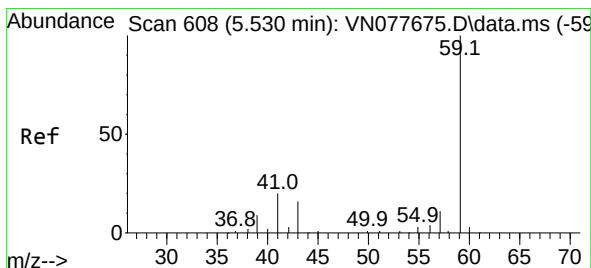
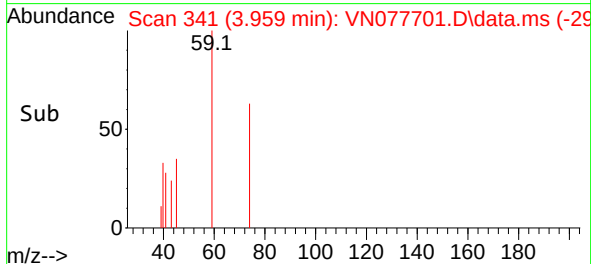
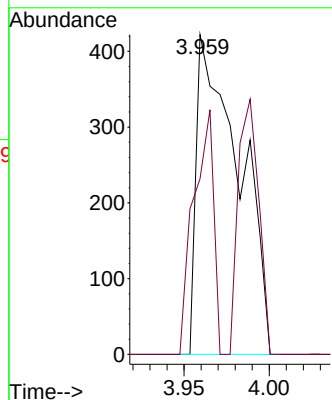
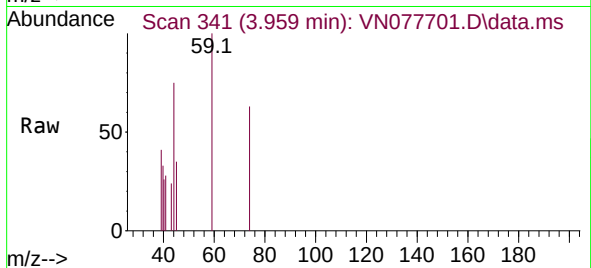




#8
Diethyl Ether
Concen: 0.287 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

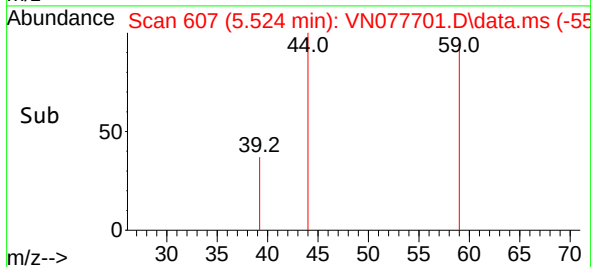
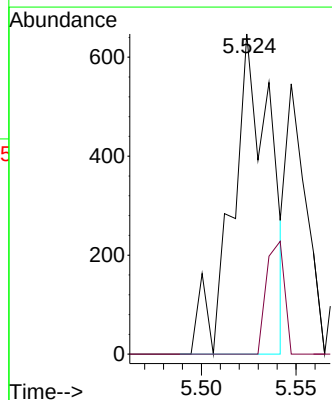
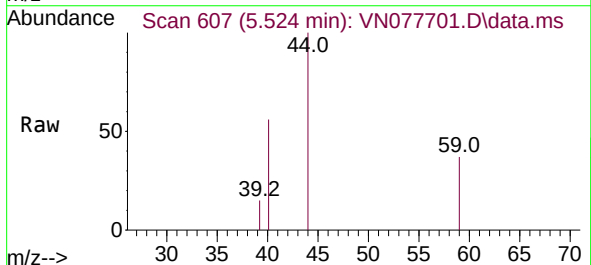
Instrument :
MSVOA_N
ClientSampleId :
WATERWITCH-AVE-SAMPLE

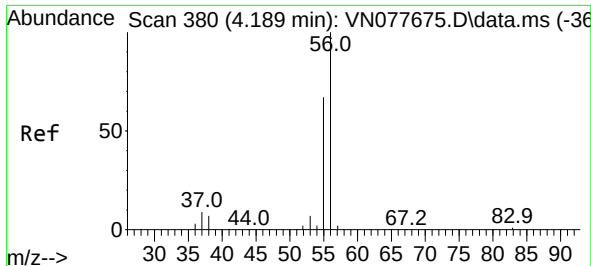
Tgt Ion: 74 Resp: 729
Ion Ratio Lower Upper
74 100
45 36.2 34.4 103.3



#11
Tert butyl alcohol
Concen: 1.267 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion: 59 Resp: 910
Ion Ratio Lower Upper
59 100
57 16.5 8.2 12.4#

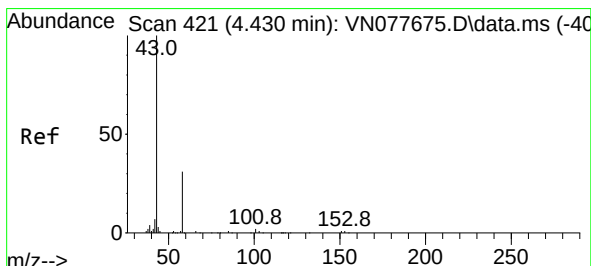
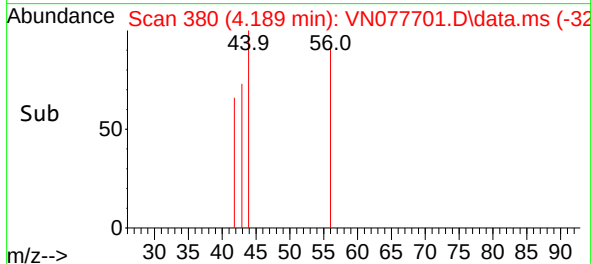
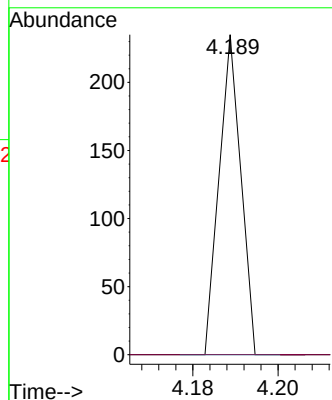
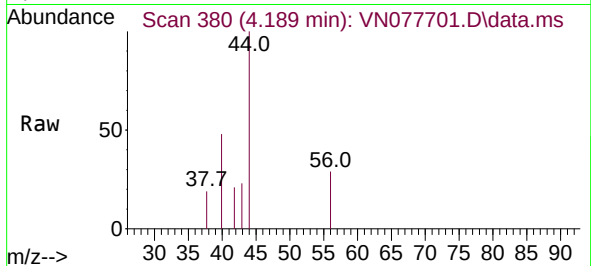




#13
Acrolein
Concen: Below Cal
RT: 4.189 min Scan# 380
Delta R.T. -0.000 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

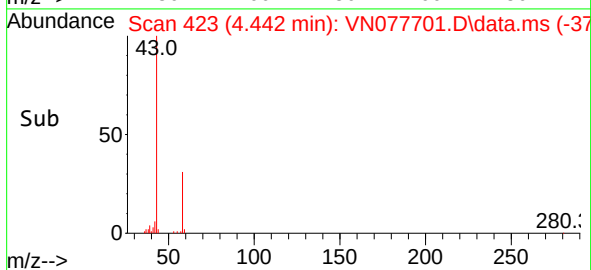
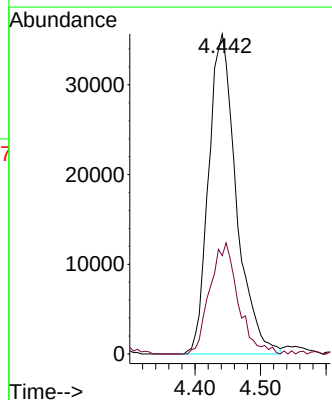
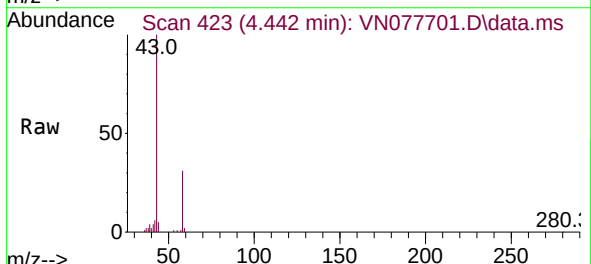
Instrument :
MSVOA_N
ClientSampleId :
WATERWITCH-AVE-SAMPLE

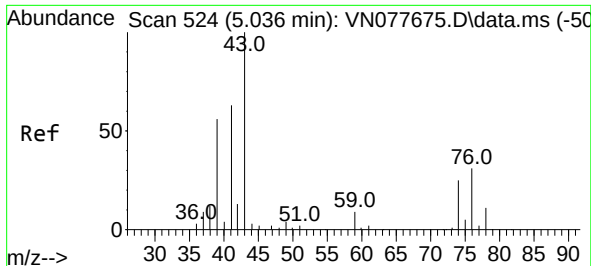
Tgt Ion: 56 Resp: 83
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 63.972 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion: 43 Resp: 104731
Ion Ratio Lower Upper
43 100
58 30.8 28.0 42.0





#18

Methyl Acetate

Concen: 0.536 ug/l

RT: 5.053 min Scan# 51

Delta R.T. 0.017 min

Lab File: VN077701.D

Acq: 16 May 2023 18:38

Instrument :

MSVOA_N

ClientSampleId :

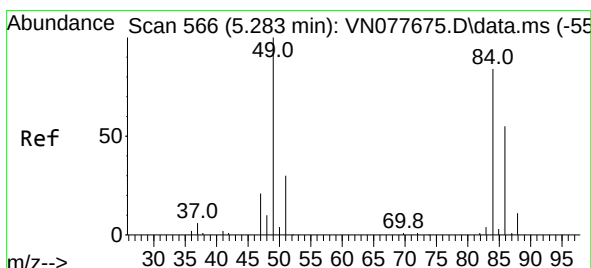
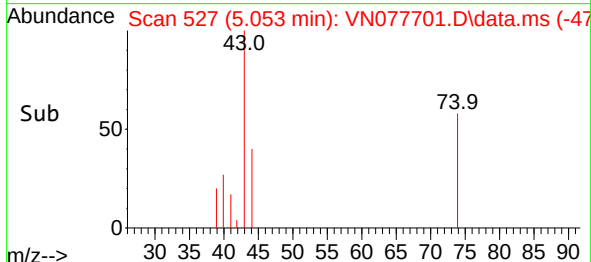
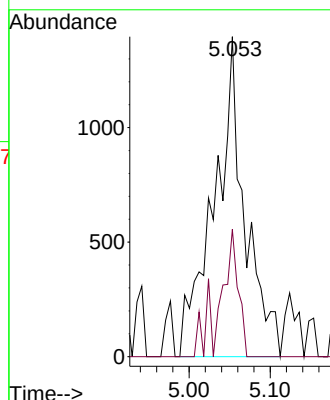
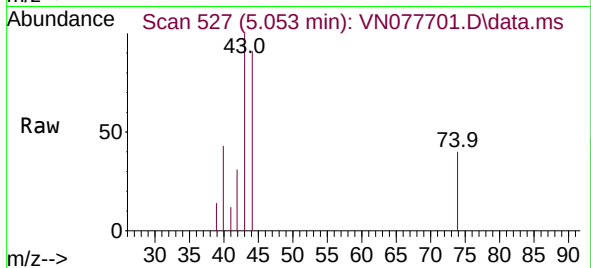
WATERWITCH-AVE-SAMPLE

Tgt Ion: 43 Resp: 3682

Ion Ratio Lower Upper

43 100

74 18.5 26.2 39.4#



#20

Methylene Chloride

Concen: 4.208 ug/l

RT: 5.295 min Scan# 568

Delta R.T. 0.012 min

Lab File: VN077701.D

Acq: 16 May 2023 18:38

Tgt Ion: 84 Resp: 25643

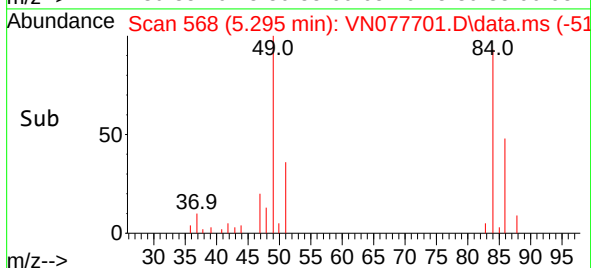
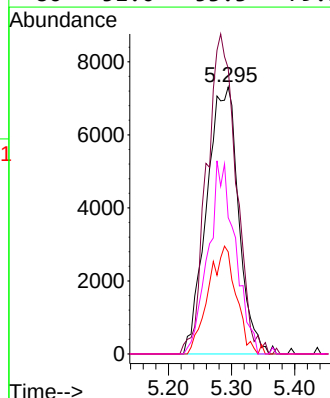
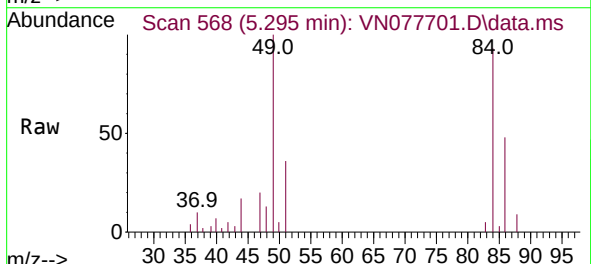
Ion Ratio Lower Upper

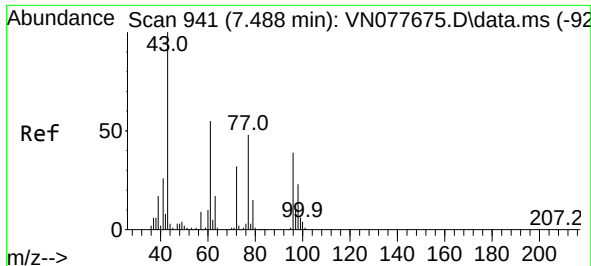
84 100

49 107.0 79.7 119.5

51 38.2 25.2 37.8#

86 51.0 53.3 79.9#

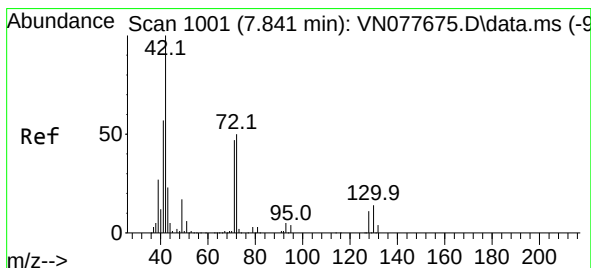
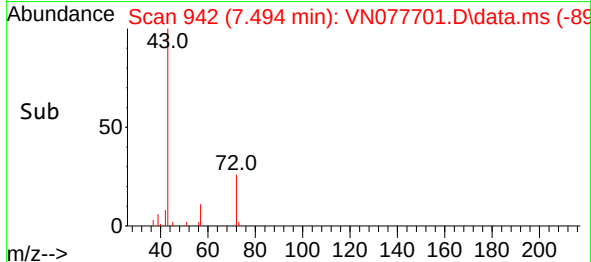
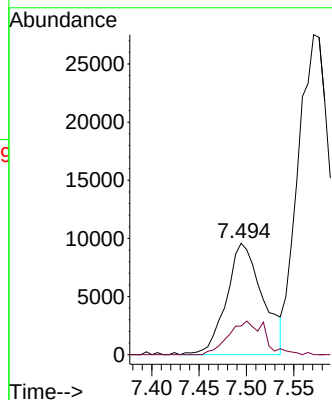
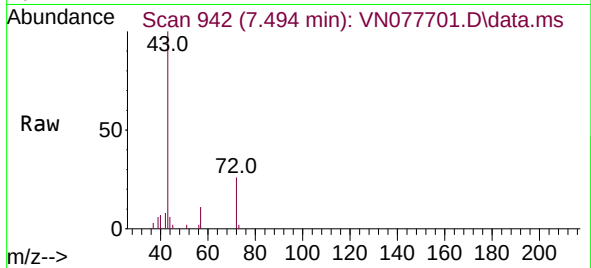




#25
2-Butanone
Concen: 9.980 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

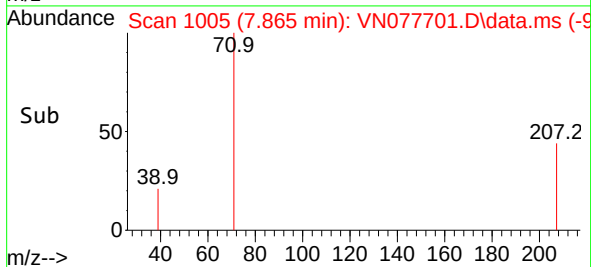
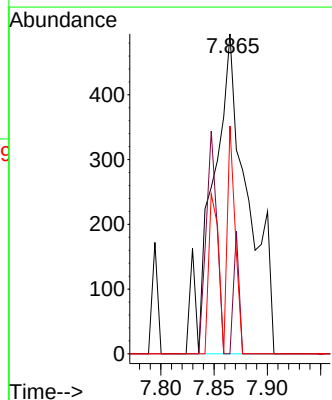
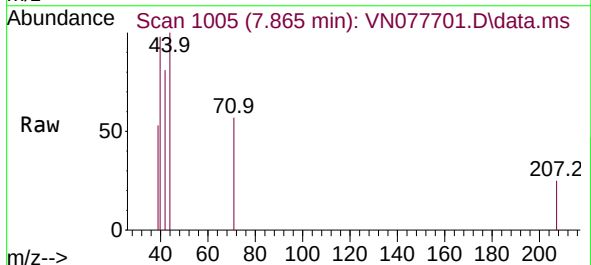
Instrument :
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WATERWITCH-AVE-SAMPLE

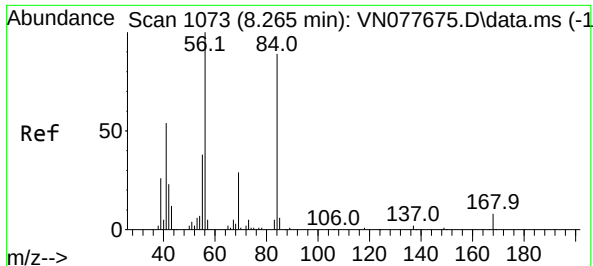
Tgt Ion: 43 Resp: 25558
Ion Ratio Lower Upper
43 100
72 25.7 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.671 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.024 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion: 42 Resp: 1125
Ion Ratio Lower Upper
42 100
72 6.0 49.8 74.6#
71 16.0 47.4 71.2#

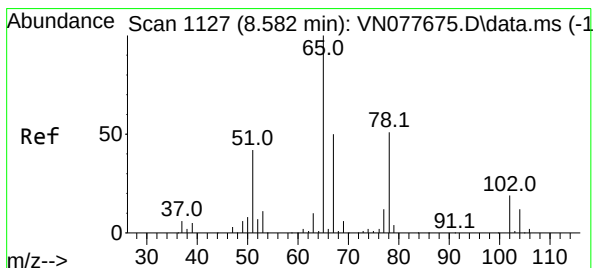
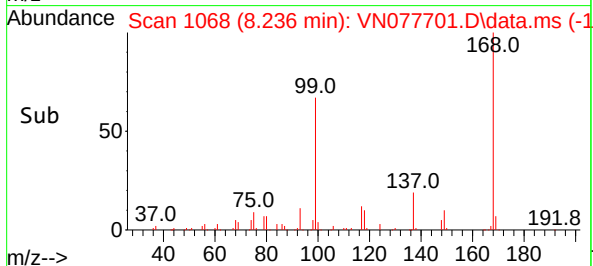
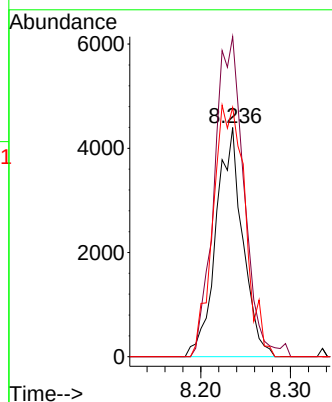
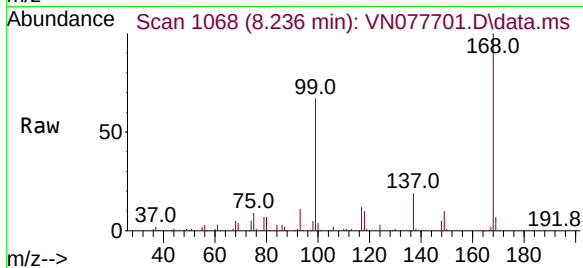




#31
Cyclohexane
Concen: 1.283 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

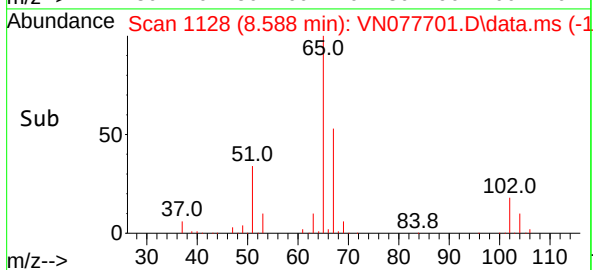
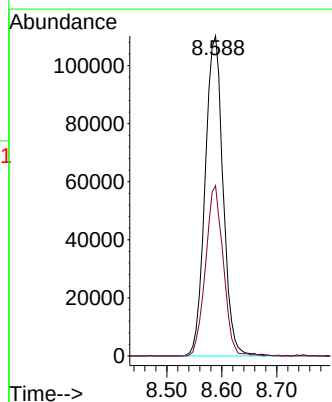
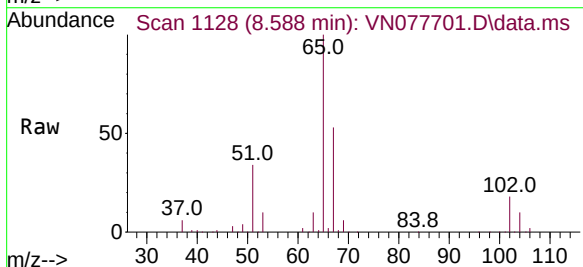
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WATERWITCH-AVE-SAMPLE

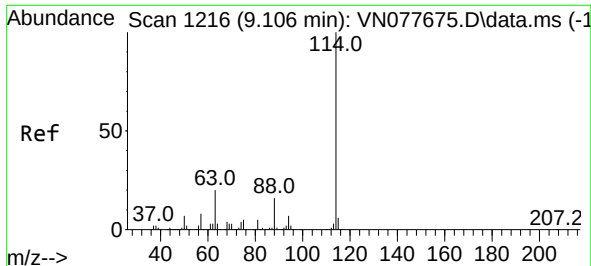
Tgt Ion: 56 Resp: 9075
Ion Ratio Lower Upper
56 100
69 139.7 26.8 40.2#
84 108.8 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 47.988 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion: 65 Resp: 249711
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.6

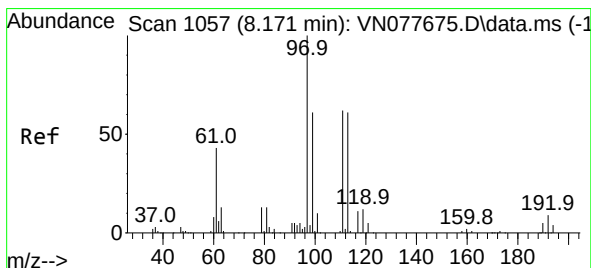
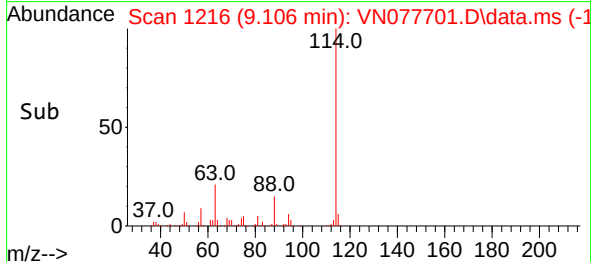
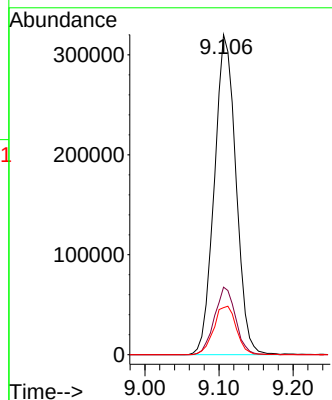
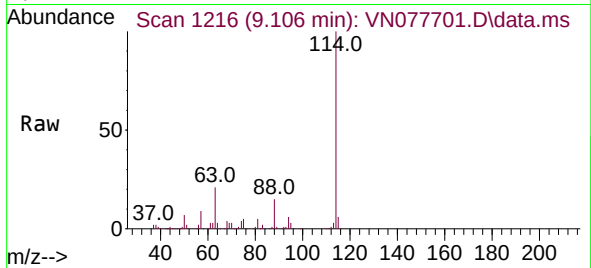




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

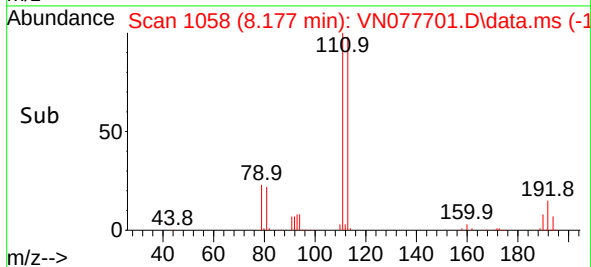
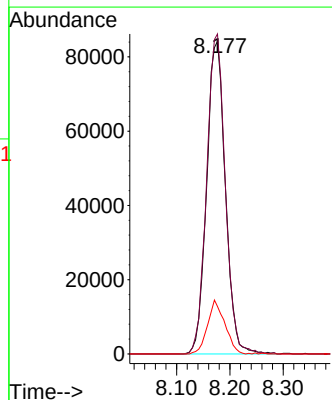
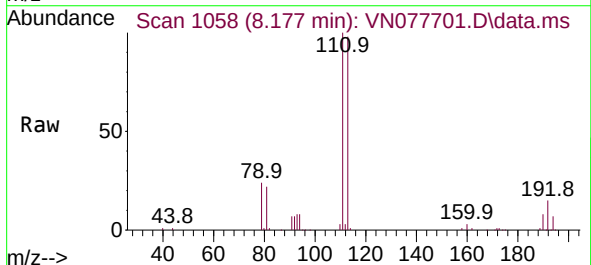
Instrument :
MSVOA_N
ClientSampleId :
WATERWITCH-AVE-SAMPLE

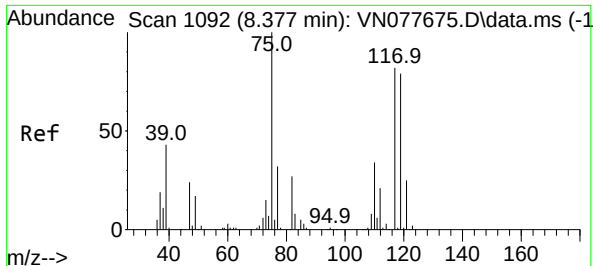
Tgt Ion:114 Resp: 648562
Ion Ratio Lower Upper
114 100
63 21.1 0.0 36.4
88 14.7 0.0 30.6



#35
Dibromofluoromethane
Concen: 48.588 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion:113 Resp: 205489
Ion Ratio Lower Upper
113 100
111 102.0 82.6 123.8
192 16.0 12.7 19.1

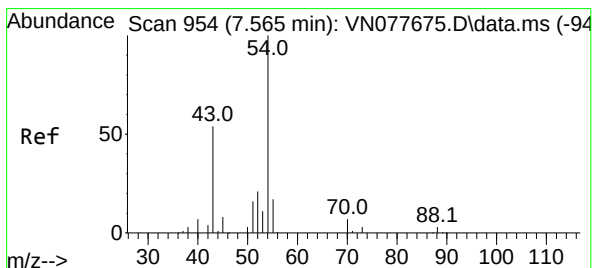
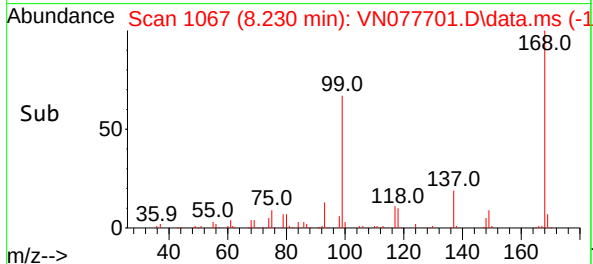
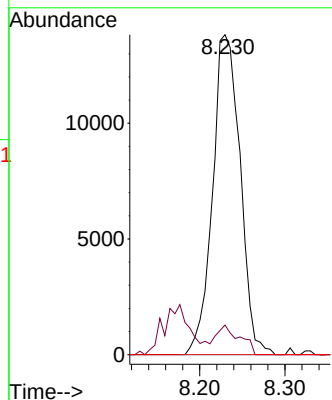
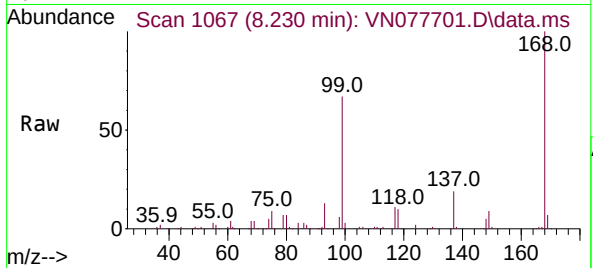




#36
1,1-Dichloropropene
Concen: 5.021 ug/l
RT: 8.230 min Scan# 1092
Delta R.T. -0.147 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

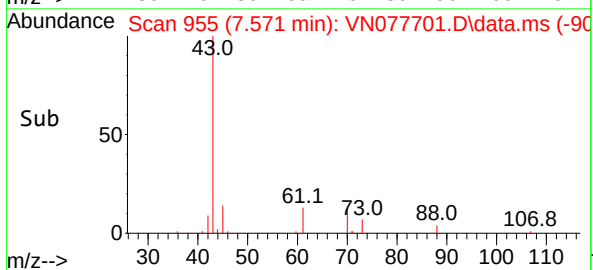
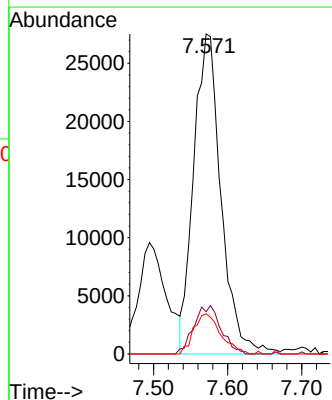
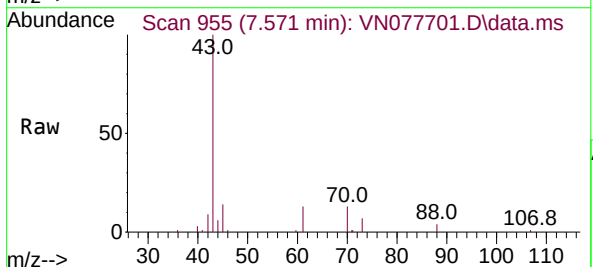
Instrument :
MSVOA_N
ClientSampleId :
WATERWITCH-AVE-SAMPLE

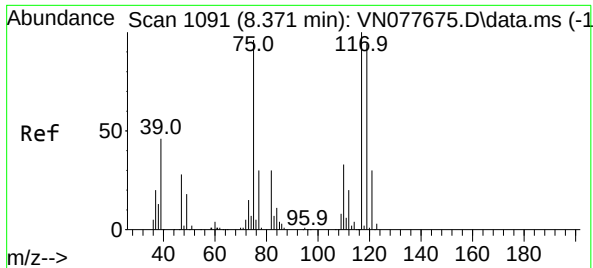
Tgt Ion: 75 Resp: 31057
Ion Ratio Lower Upper
75 100
110 7.8 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 12.783 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.006 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion: 43 Resp: 70478
Ion Ratio Lower Upper
43 100
61 15.1 13.2 19.8
70 12.4 11.3 16.9

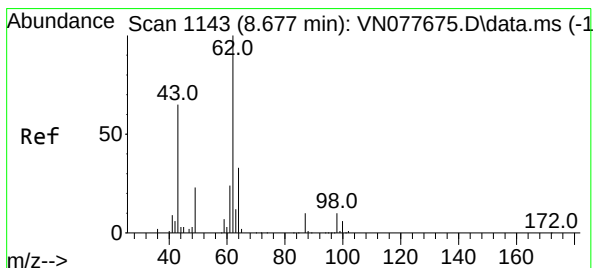
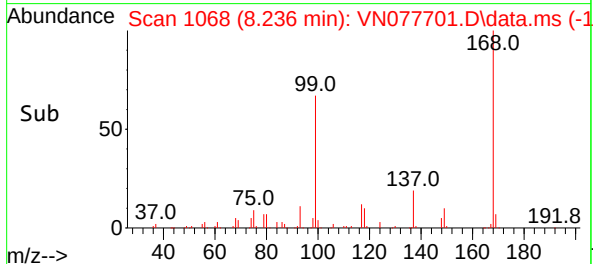
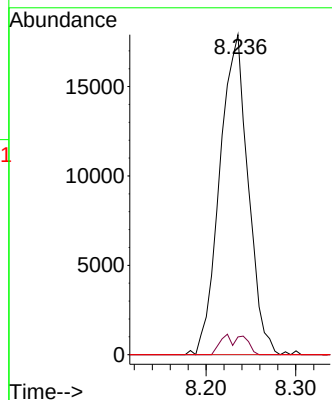
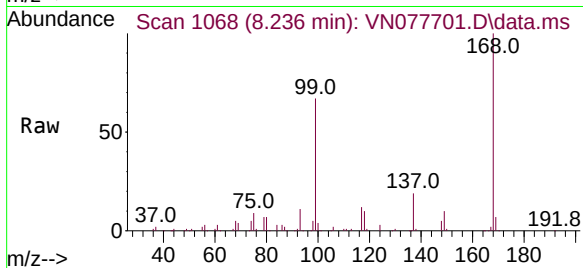




#38
Carbon Tetrachloride
Concen: 6.300 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

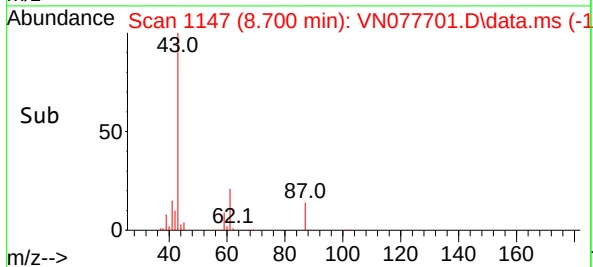
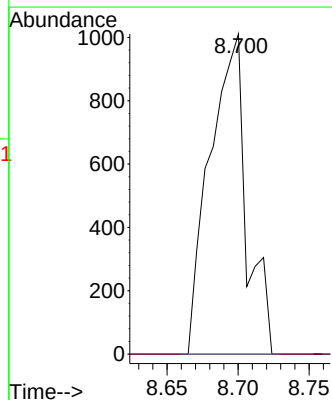
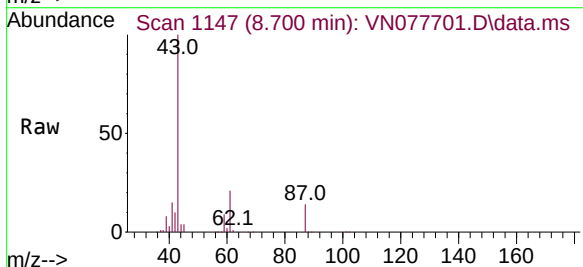
Instrument : MSVOA_N
ClientSampleId : WATERWITCH-AVE-SAMPLE

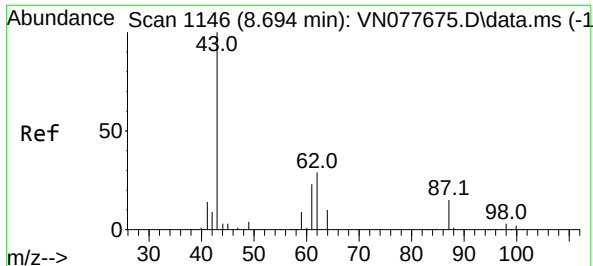
Tgt Ion: 117 Resp: 39352
Ion Ratio Lower Upper
117 100
119 5.6 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.273 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.023 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion: 62 Resp: 1809
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8





#43

Isopropyl Acetate

Concen: 31.894 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN077701.D

Acq: 16 May 2023 18:38

Instrument :

MSVOA_N

ClientSampleId :

WATERWITCH-AVE-SAMPLE

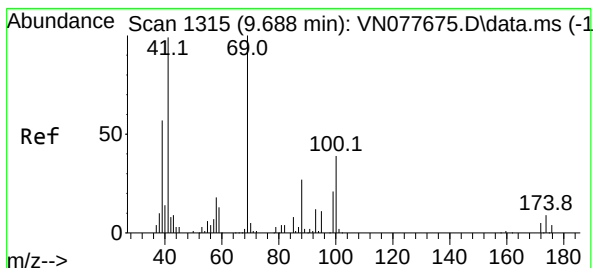
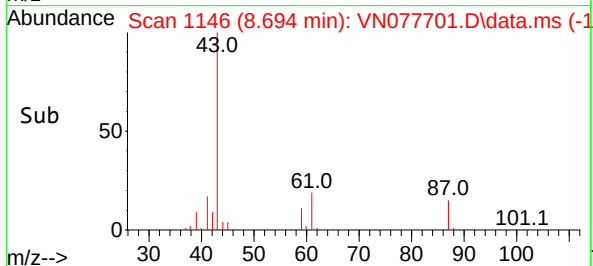
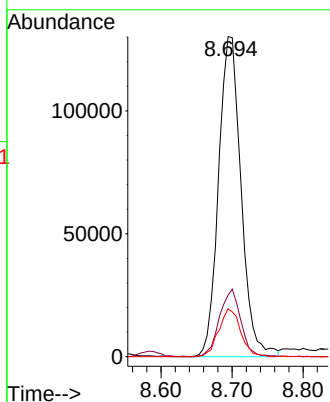
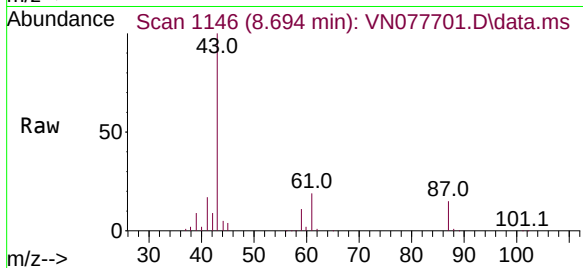
Tgt Ion: 43 Resp: 287231

Ion Ratio Lower Upper

43 100

61 20.0 24.7 37.1#

87 14.5 14.6 21.8#



#48

Methyl methacrylate

Concen: 1.730 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.023 min

Lab File: VN077701.D

Acq: 16 May 2023 18:38

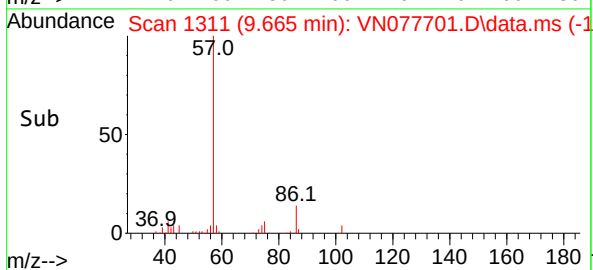
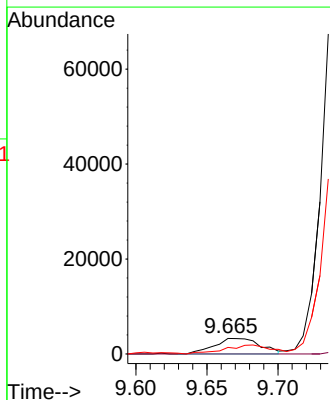
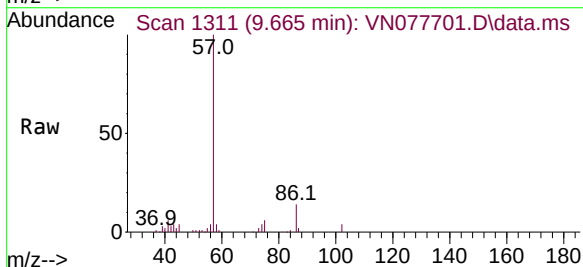
Tgt Ion: 41 Resp: 7385

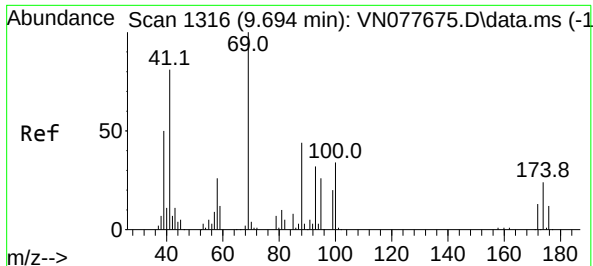
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 57.6 54.6 81.8

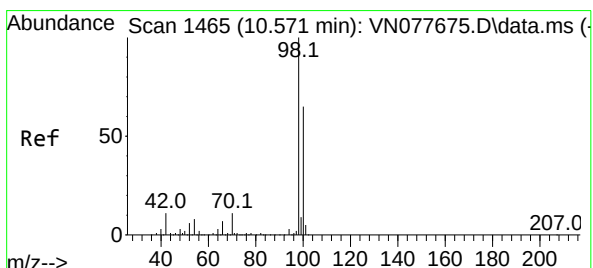
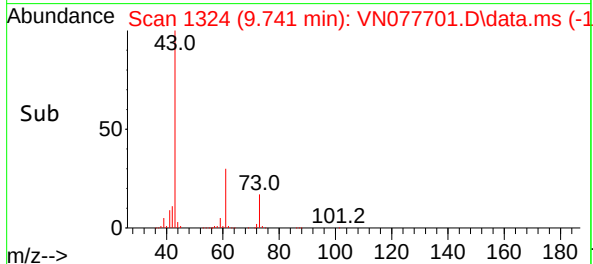
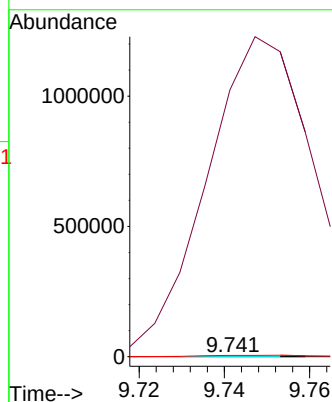
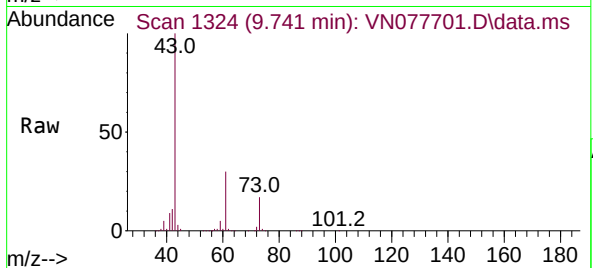




#49
1,4-Dioxane
Concen: 1.240 ug/l
RT: 9.741 min Scan# 1316
Delta R.T. 0.047 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

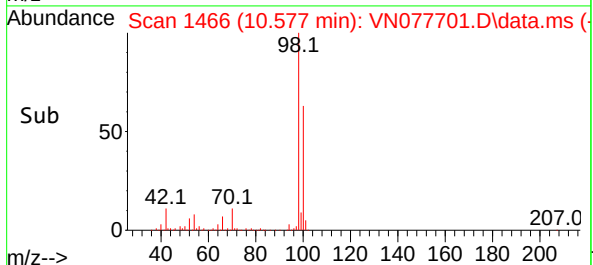
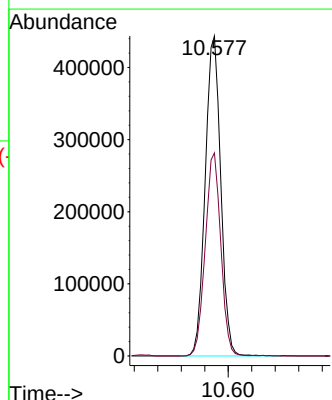
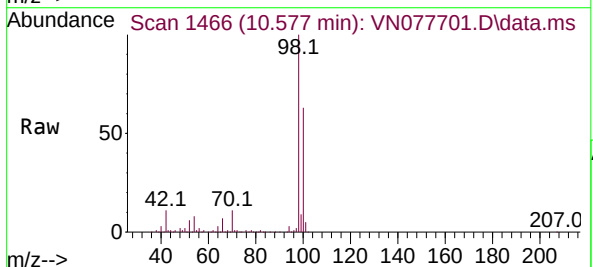
Instrument :
MSVOA_N
ClientSampleId :
WATERWITCH-AVE-SAMPLE

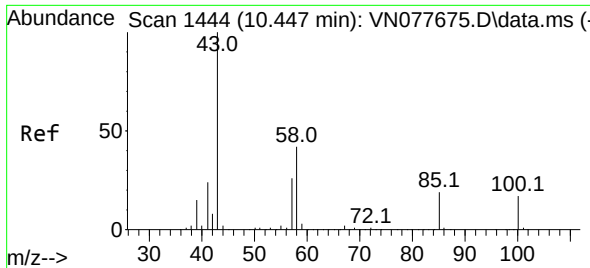
Tgt Ion: 88 Resp: 100
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#



#50
Toluene-d8
Concen: 49.889 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion: 98 Resp: 812124
Ion Ratio Lower Upper
98 100
100 63.5 52.0 78.0

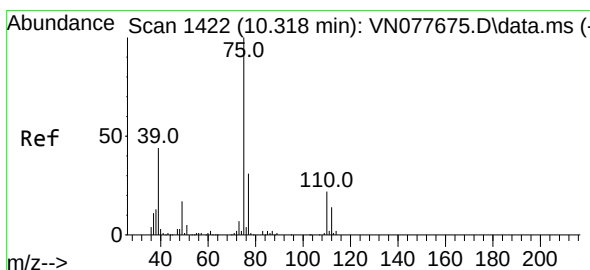
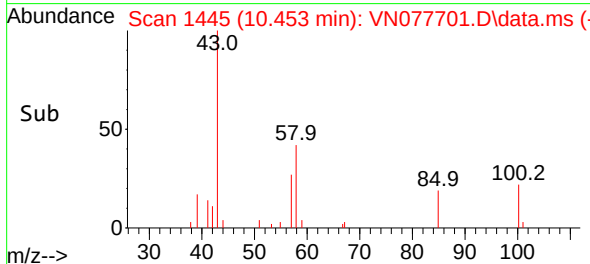
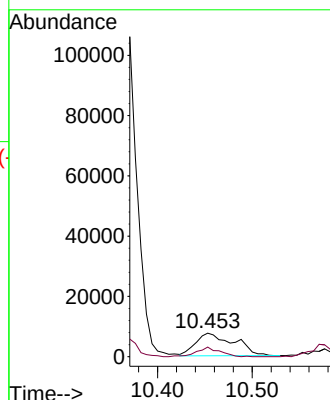
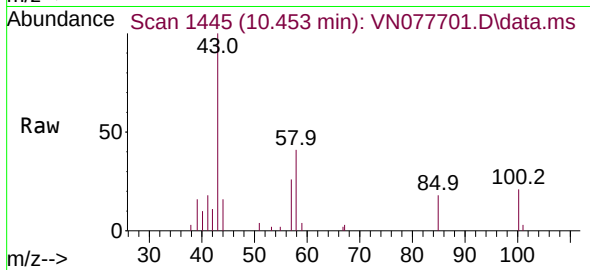




#51
4-Methyl-2-Pentanone
Concen: 3.974 ug/l
RT: 10.453 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

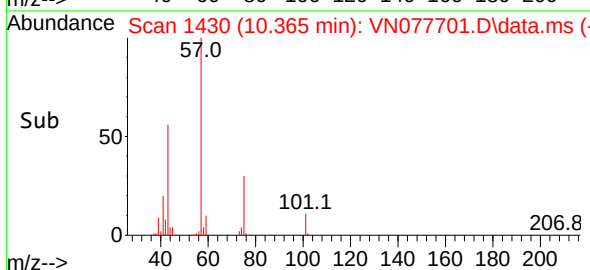
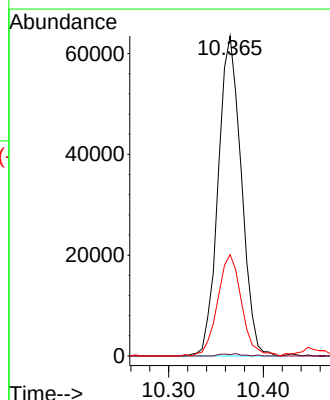
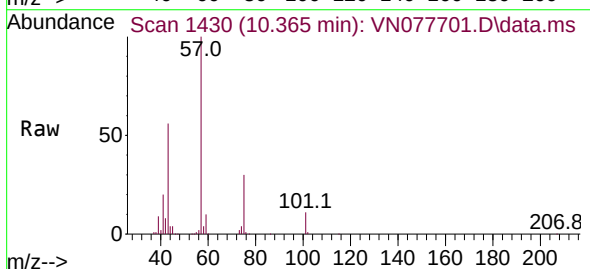
Instrument :
MSVOA_N
ClientSampleId :
WATERWITCH-AVE-SAMPLE

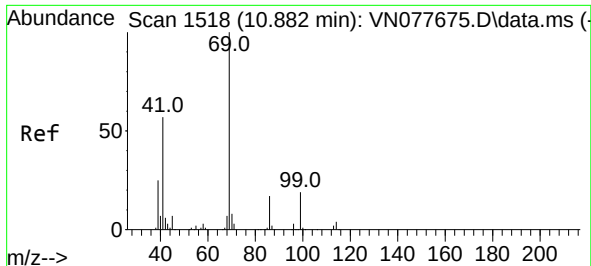
Tgt Ion: 43 Resp: 21273
Ion Ratio Lower Upper
43 100
58 25.2 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 14.480 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion: 75 Resp: 107788
Ion Ratio Lower Upper
75 100
77 0.4 26.1 39.1#
39 31.7 31.6 47.4

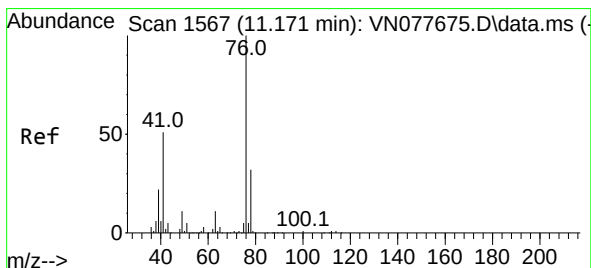
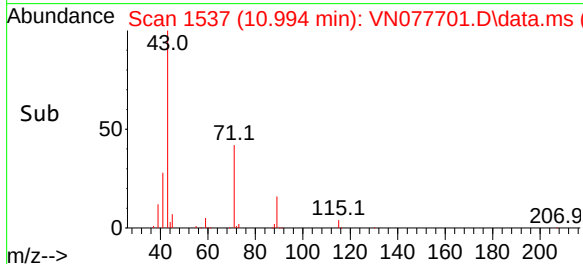
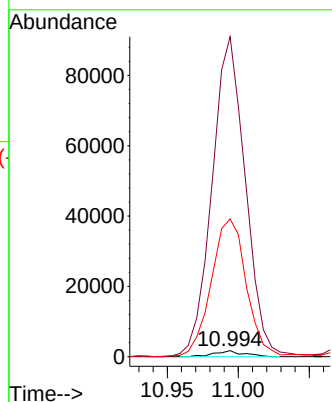
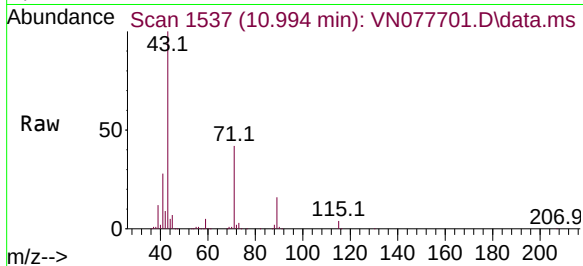




#56
Ethyl methacrylate
Concen: 0.357 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.112 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

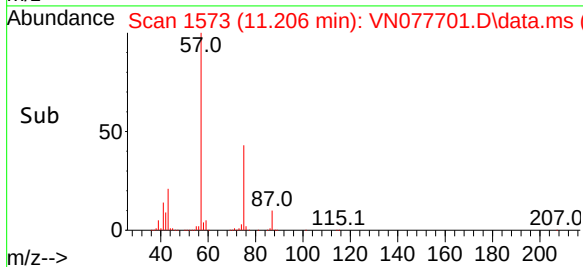
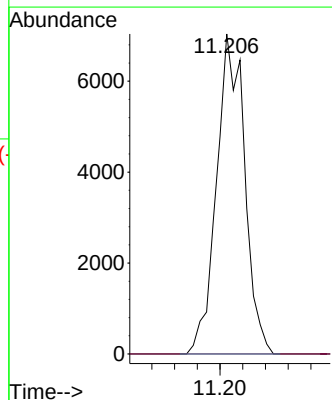
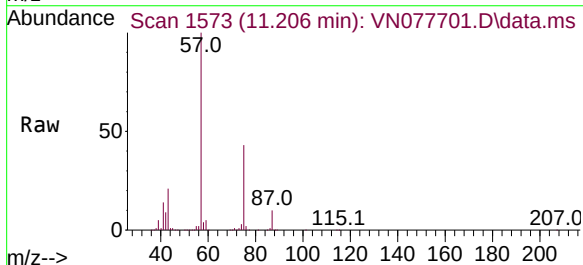
Instrument :
MSVOA_N
ClientSampleId :
WATERWITCH-AVE-SAMPLE

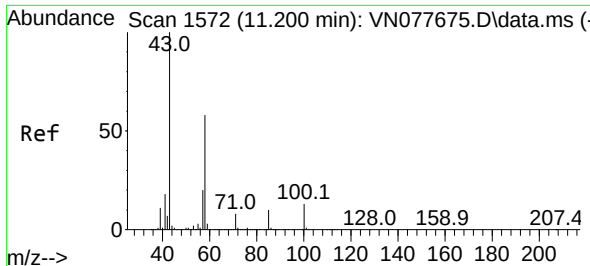
Tgt Ion: 69 Resp: 2436
Ion Ratio Lower Upper
69 100
41 6107.3 39.6 59.4#
39 2782.1 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.561 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion: 76 Resp: 12072
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

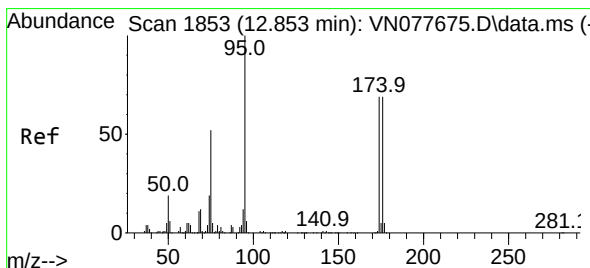
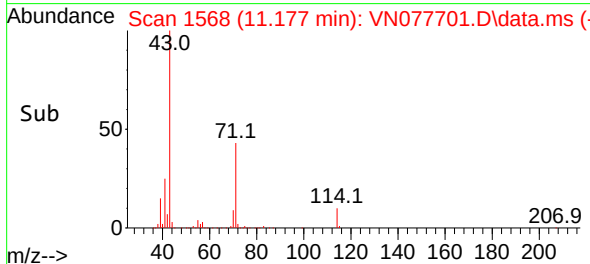
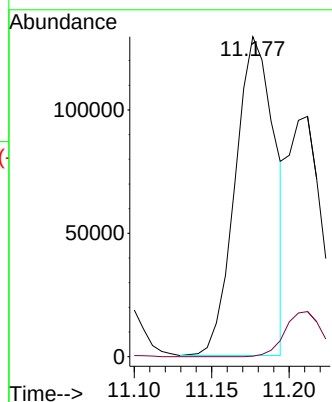
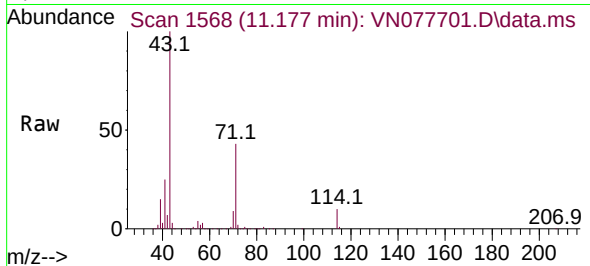




#59
2-Hexanone
Concen: 57.896 ug/l
RT: 11.177 min Scan# 11177
Delta R.T. -0.023 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

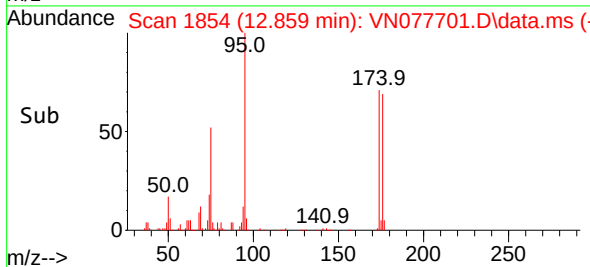
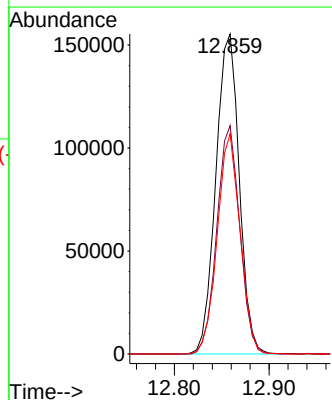
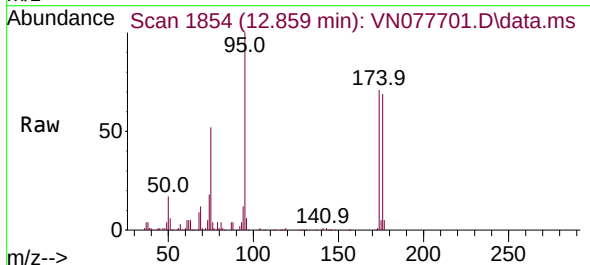
Instrument :
MSVOA_N
ClientSampleId :
WATERWITCH-AVE-SAMPLE

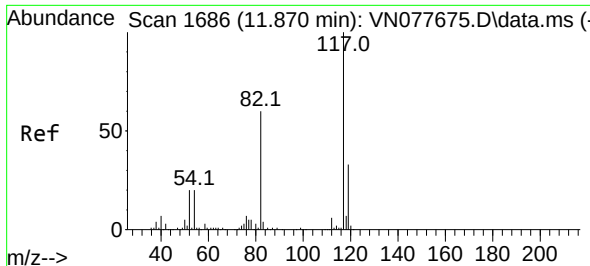
Tgt Ion: 43 Resp: 229237
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 46.460 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion: 95 Resp: 267111
Ion Ratio Lower Upper
95 100
174 69.8 0.0 143.8
176 67.1 0.0 135.8

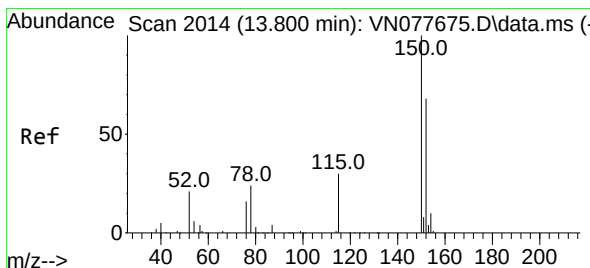
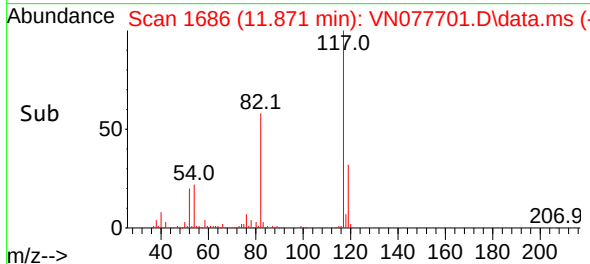
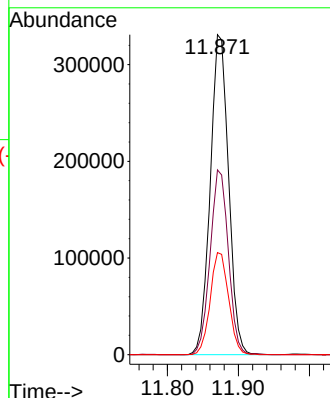
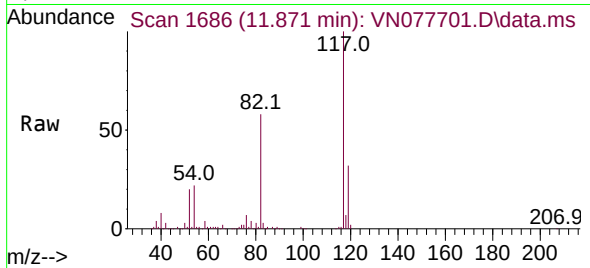




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.001 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

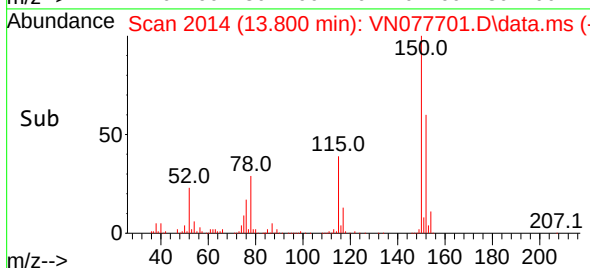
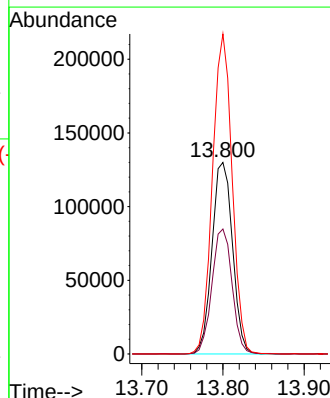
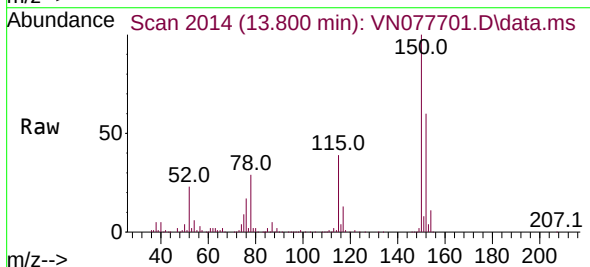
Instrument :
MSVOA_N
ClientSampleId :
WATERWITCH-AVE-SAMPLE

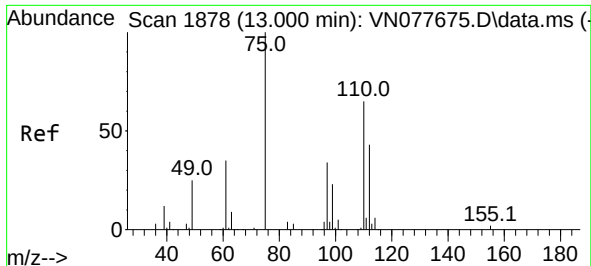
Tgt Ion:117 Resp: 592765
Ion Ratio Lower Upper
117 100
82 57.7 44.0 66.0
119 31.9 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion:152 Resp: 227974
Ion Ratio Lower Upper
152 100
115 64.2 32.3 96.8
150 159.6 0.0 355.8

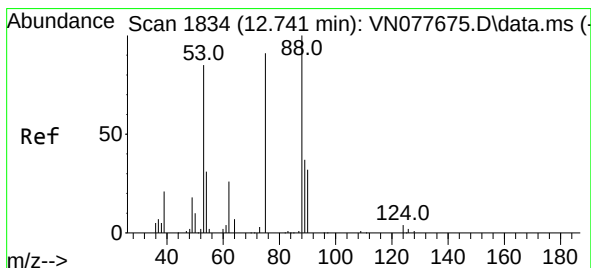
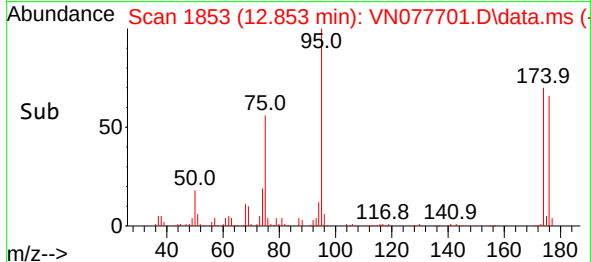
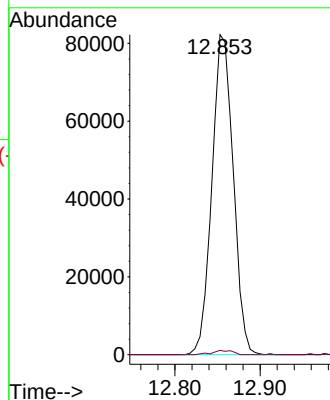
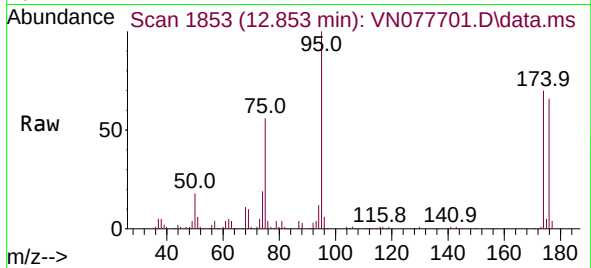




#76
1,2,3-Trichloropropane
Concen: 25.024 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Instrument :
MSVOA_N
ClientSampleId :
WATERWITCH-AVE-SAMPLE

Tgt Ion: 75 Resp: 142871
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 79.991 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077701.D
Acq: 16 May 2023 18:38

Tgt Ion: 75 Resp: 142871
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

