

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032323\
 Data File : VN077160.D
 Acq On : 23 Mar 2023 19:32
 Operator : JC\MD
 Sample : 02048-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

Quant Time: Mar 24 01:37:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 20 08:50:30 2023
 Response via : Initial Calibration

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

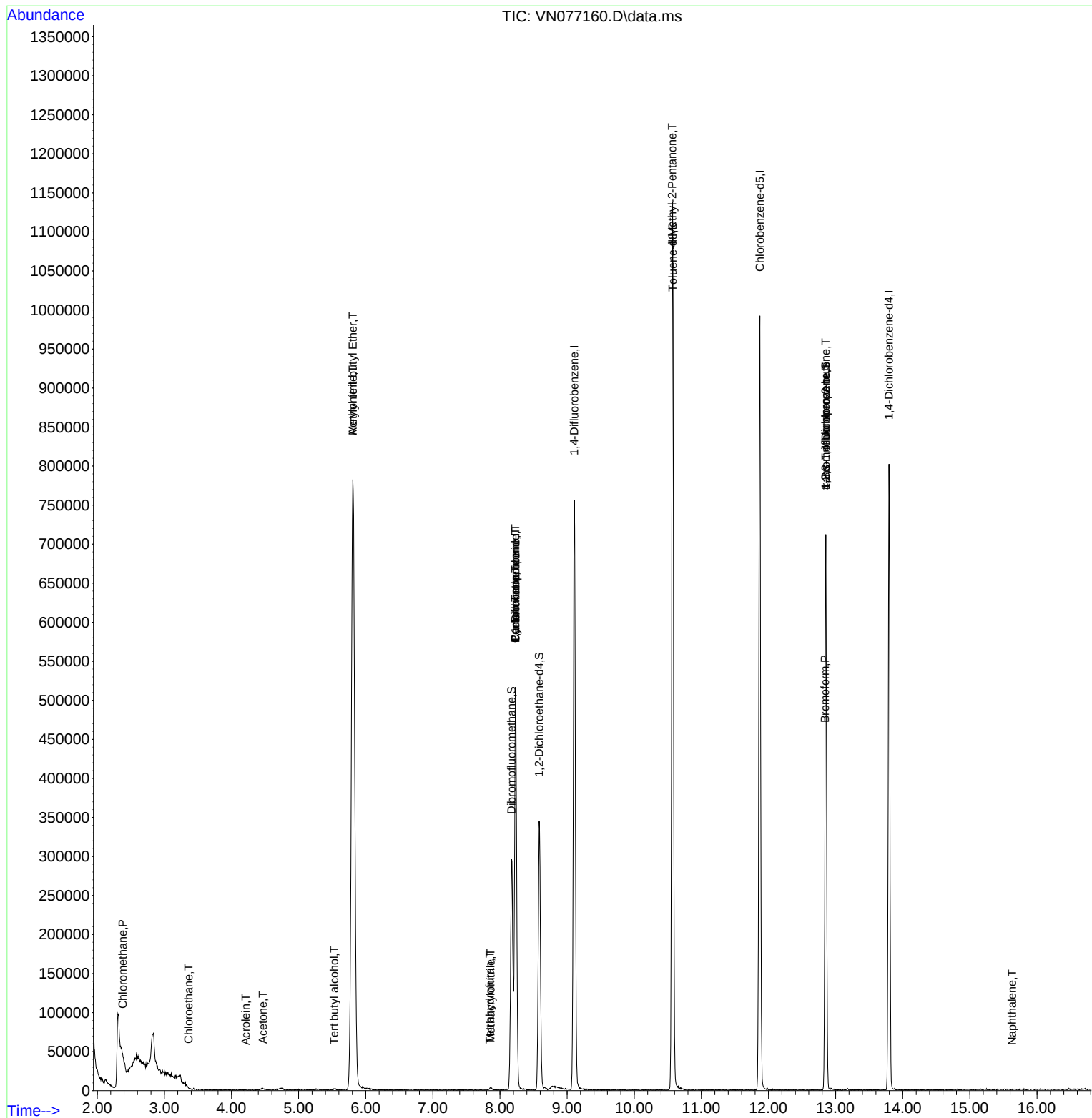
Internal Standards						
1) Pentafluorobenzene	8.231	168	354484	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	614805	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	542301	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	198620	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	277009	48.922	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.840%
35) Dibromofluoromethane	8.172	113	207615	48.220	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.440%
50) Toluene-d8	10.572	98	753992	49.024	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.040%
62) 4-Bromofluorobenzene	12.854	95	218472	40.199	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	80.400%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.343	85	207	Below Cal	#	42
3) Chloromethane	2.378	50	2064	0.578	ug/l	94
6) Chloroethane	3.360	64	986	0.404	ug/l #	42
11) Tert butyl alcohol	5.531	59	919	1.114	ug/l #	72
13) Acrolein	4.213	56	218	0.214	ug/l #	14
15) Acrylonitrile	5.807	53	17093	6.162	ug/l #	28
16) Acetone	4.466	43	3613	1.432	ug/l #	83
19) Methyl tert-butyl Ether	5.807	73	1208536	78.243	ug/l	96
29) Tetrahydrofuran	7.848	42	2521	1.054	ug/l #	49
31) Cyclohexane	8.231	56	9829	1.061	ug/l #	14
36) 1,1-Dichloropropene	8.231	75	34140	5.077	ug/l #	52
38) Carbon Tetrachloride	8.231	117	39869	6.087	ug/l #	14
41) Methacrylonitrile	7.860	41	911	0.235	ug/l #	47
51) 4-Methyl-2-Pentanone	10.566	43	3914	0.559	ug/l #	1
71) Bromoform	12.842	173	1251	0.400	ug/l #	28
76) 1,2,3-Trichloropropane	12.854	75	127894	24.894	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	127894	68.522	ug/l #	10
95) Naphthalene	15.630	128	452	1.945	ug/l #	70

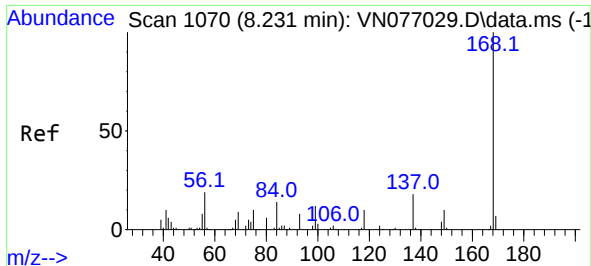
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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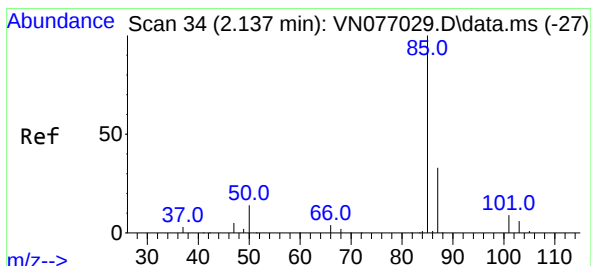
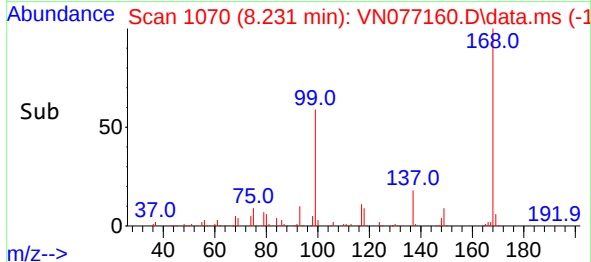
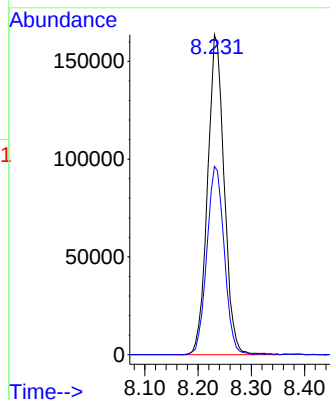
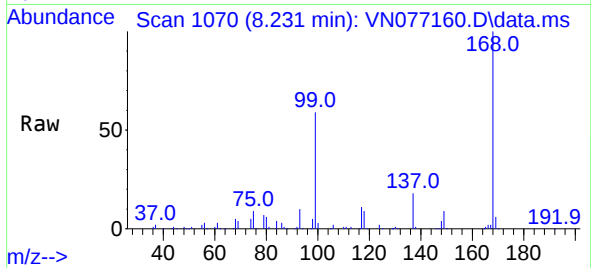




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

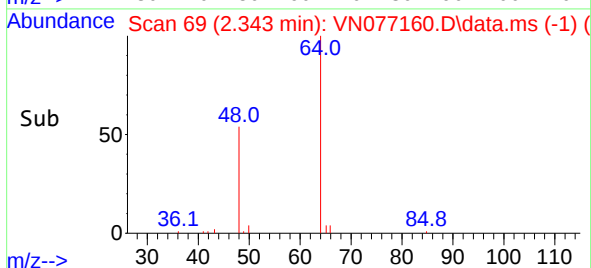
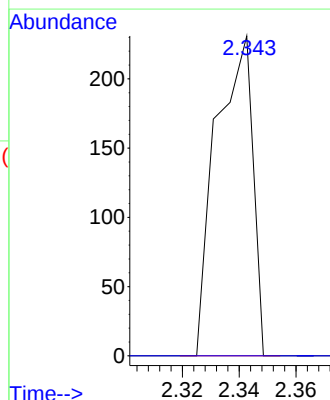
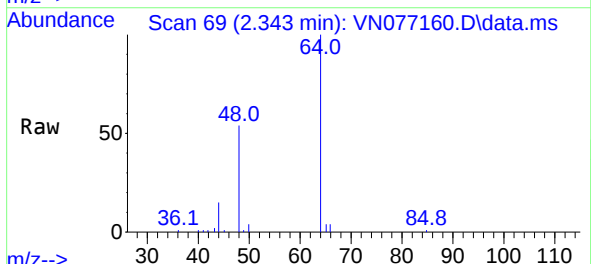
Instrument :
MSVOA_N
ClientSampleId :
MW-4

Tgt Ion:168 Resp: 354484
Ion Ratio Lower Upper
168 100
99 58.8 53.9 80.9

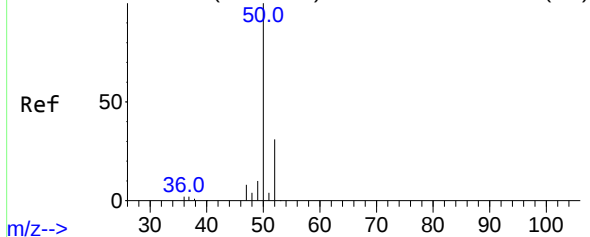


#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 2.343 min Scan# 69
Delta R.T. 0.206 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

Tgt Ion: 85 Resp: 207
Ion Ratio Lower Upper
85 100
87 0.0 16.4 49.2#



Abundance Scan 75 (2.378 min): VN077029.D\data.ms (-66)



#3

Chloromethane

Concen: 0.578 ug/l

RT: 2.378 min Scan# 75

Delta R.T. -0.000 min

Lab File: VN077160.D

Acq: 23 Mar 2023 19:32

Instrument :

MSVOA_N

ClientSampleId :

MW-4

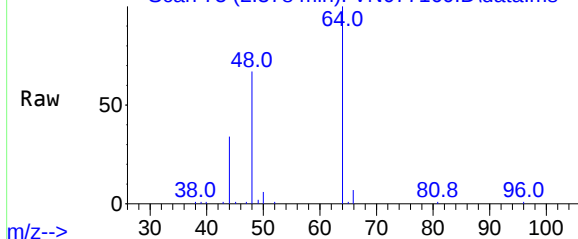
Tgt Ion: 50 Resp: 2064

Ion Ratio Lower Upper

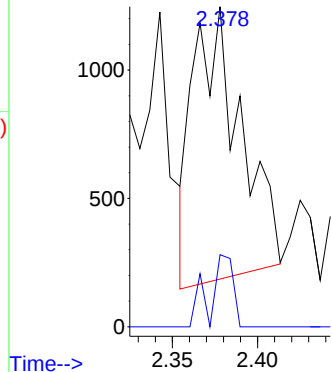
50 100

52 28.2 25.1 37.7

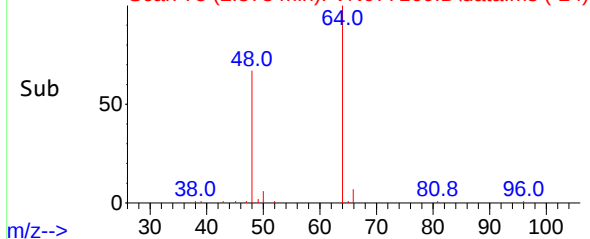
Abundance Scan 75 (2.378 min): VN077160.D\data.ms



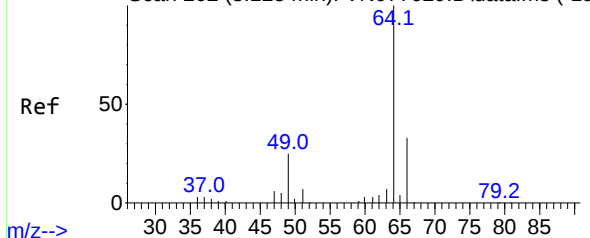
Abundance



Abundance Scan 75 (2.378 min): VN077160.D\data.ms (-24)



Abundance Scan 202 (3.125 min): VN077029.D\data.ms (-19)



#6

Chloroethane

Concen: 0.404 ug/l

RT: 3.360 min Scan# 242

Delta R.T. 0.235 min

Lab File: VN077160.D

Acq: 23 Mar 2023 19:32

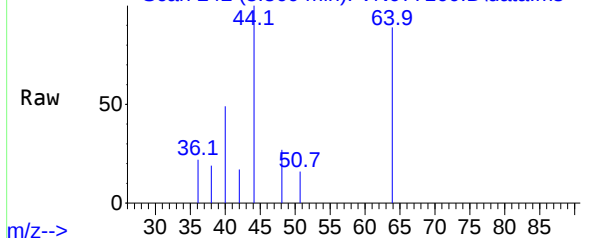
Tgt Ion: 64 Resp: 986

Ion Ratio Lower Upper

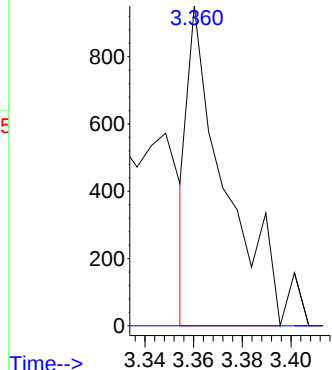
64 100

66 0.0 26.3 39.5#

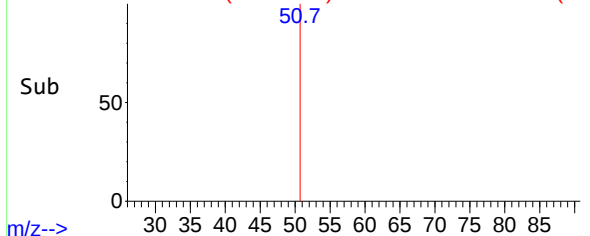
Abundance Scan 242 (3.360 min): VN077160.D\data.ms

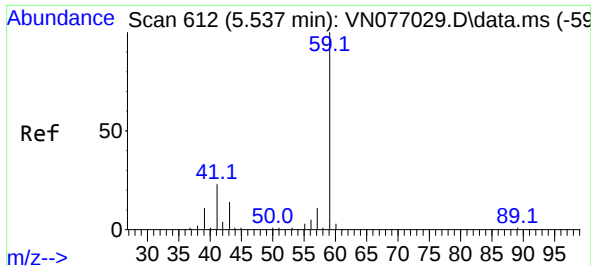


Abundance



Abundance Scan 242 (3.360 min): VN077160.D\data.ms (-15)

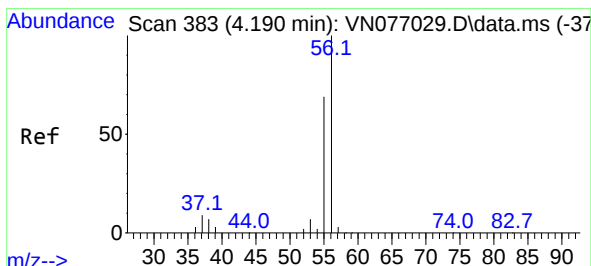
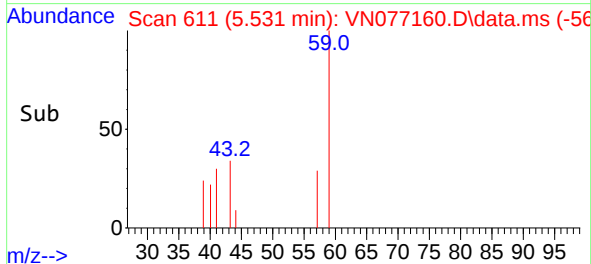
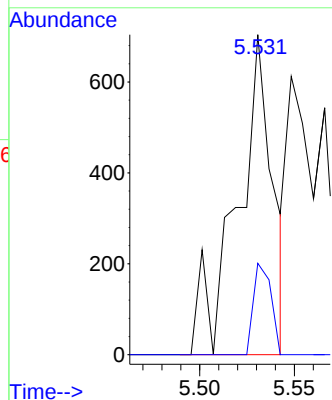
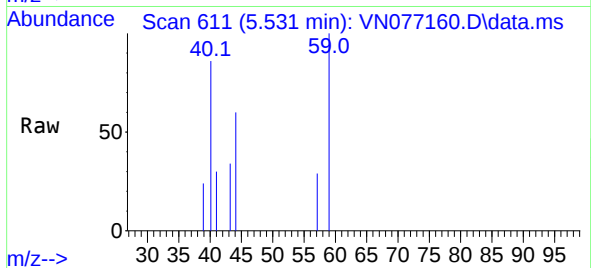




#11
Tert butyl alcohol
Concen: 1.114 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

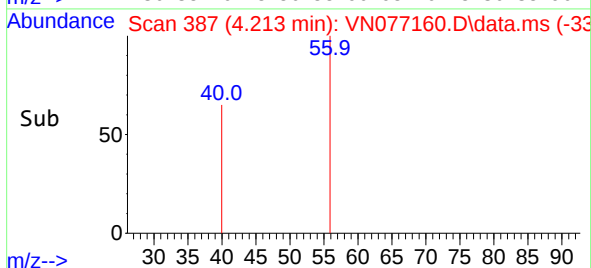
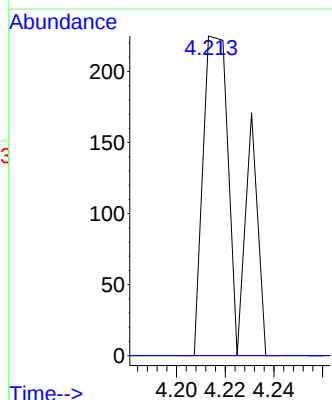
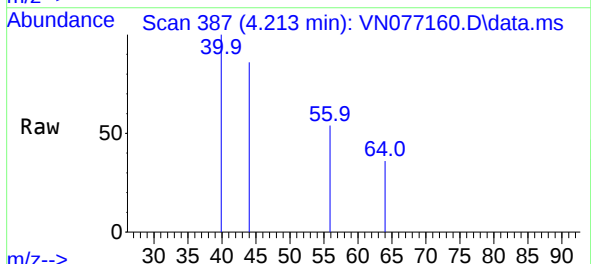
Instrument :
MSVOA_N
ClientSampleId :
MW-4

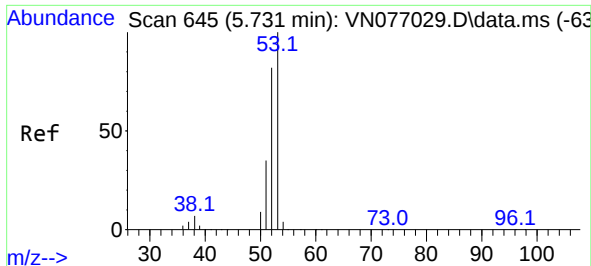
Tgt Ion: 59 Resp: 919
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.214 ug/l
RT: 4.213 min Scan# 387
Delta R.T. 0.023 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

Tgt Ion: 56 Resp: 218
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.6#

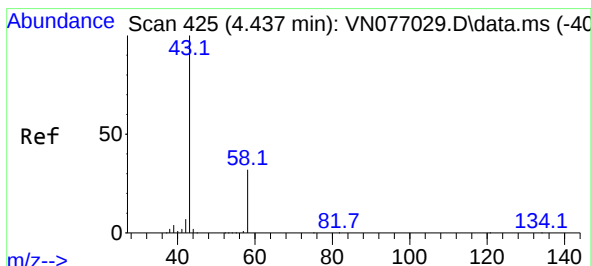
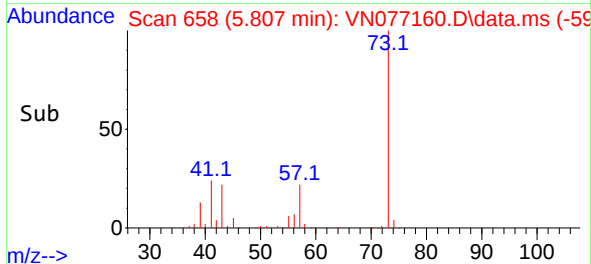
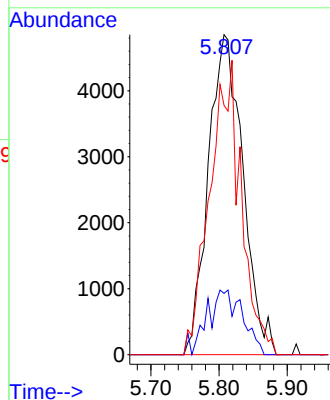
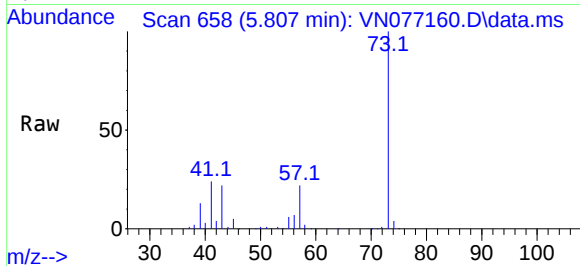




#15
Acrylonitrile
Concen: 6.162 ug/l
RT: 5.807 min Scan# 61
Delta R.T. 0.076 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

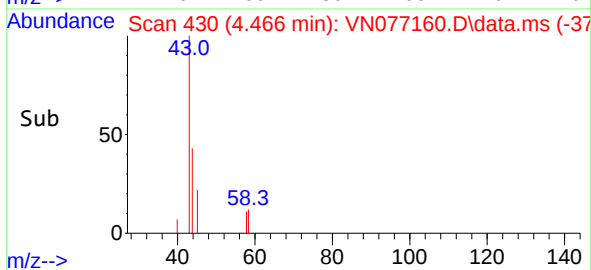
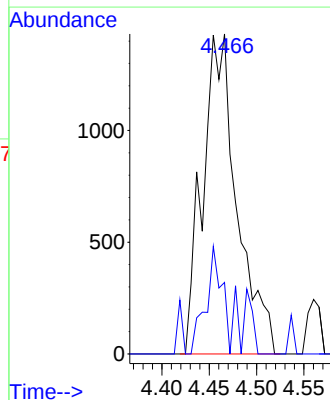
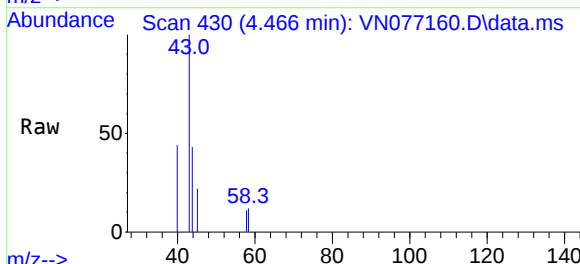
Instrument :
MSVOA_N
ClientSampleId :
MW-4

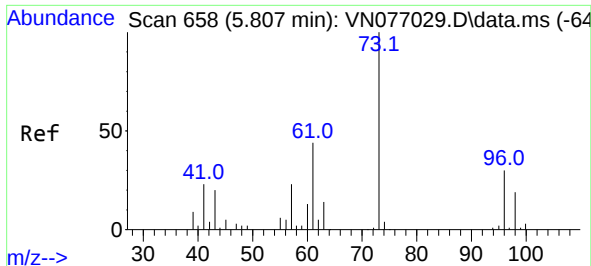
Tgt Ion: 53 Resp: 17093
Ion Ratio Lower Upper
53 100
52 20.2 64.6 97.0#
51 83.0 28.3 42.5#



#16
Acetone
Concen: 1.432 ug/l
RT: 4.466 min Scan# 430
Delta R.T. 0.029 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

Tgt Ion: 43 Resp: 3613
Ion Ratio Lower Upper
43 100
58 22.3 25.4 38.0#





#19

Methyl tert-butyl Ether

Concen: 78.243 ug/l

RT: 5.807 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN077160.D

Acq: 23 Mar 2023 19:32

Instrument :

MSVOA_N

ClientSampleId :

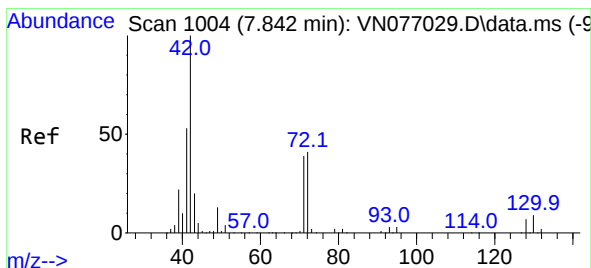
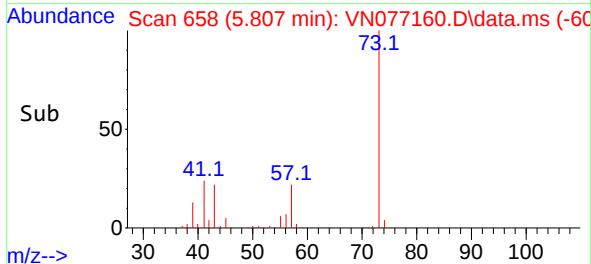
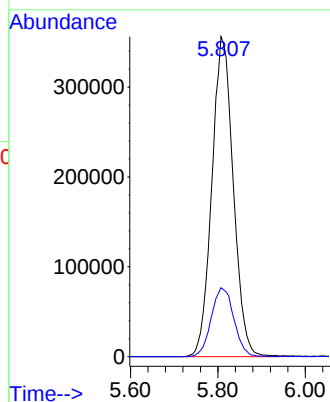
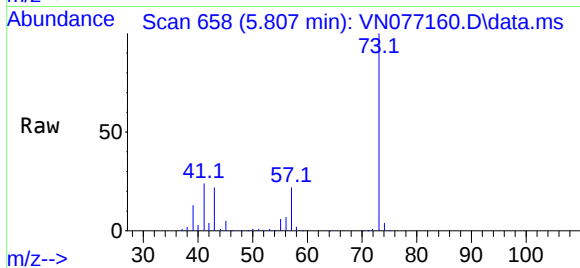
MW-4

Tgt Ion: 73 Resp: 1208536

Ion Ratio Lower Upper

73 100

57 21.5 18.7 28.1



#29

Tetrahydrofuran

Concen: 1.054 ug/l

RT: 7.848 min Scan# 1005

Delta R.T. 0.006 min

Lab File: VN077160.D

Acq: 23 Mar 2023 19:32

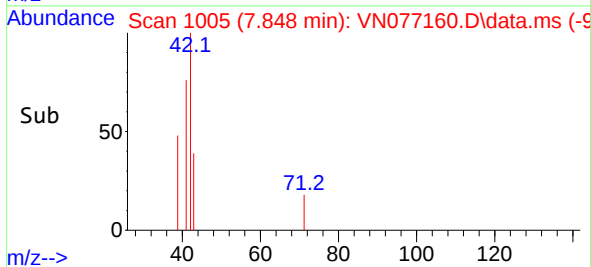
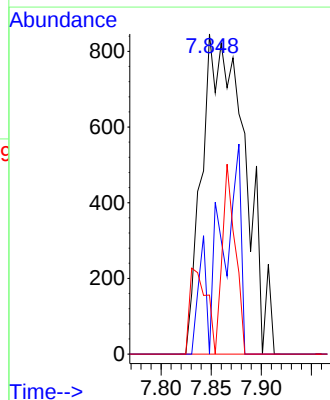
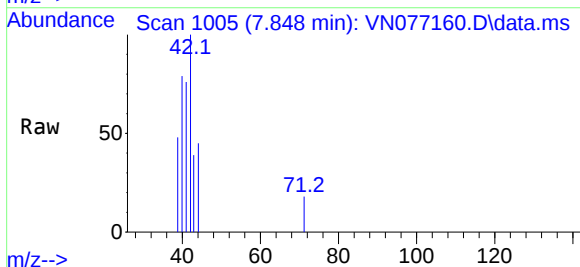
Tgt Ion: 42 Resp: 2521

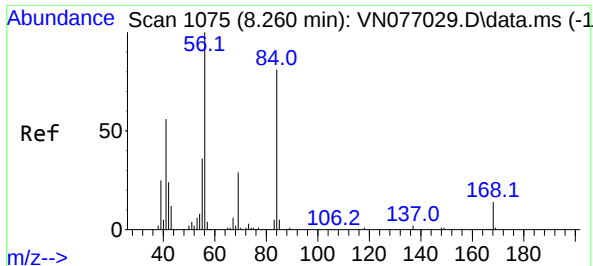
Ion Ratio Lower Upper

42 100

72 6.7 33.2 49.8#

71 10.6 31.0 46.4#

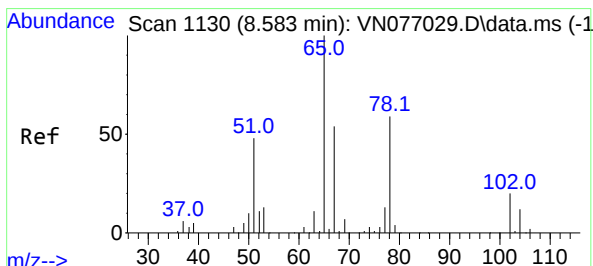
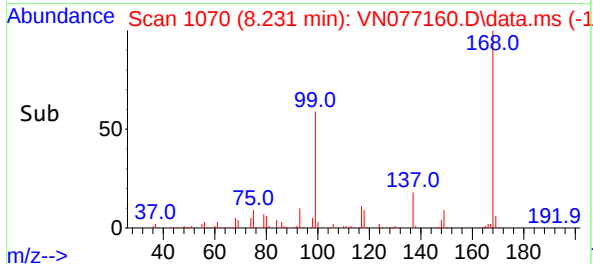
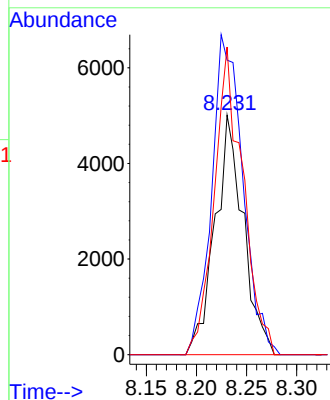
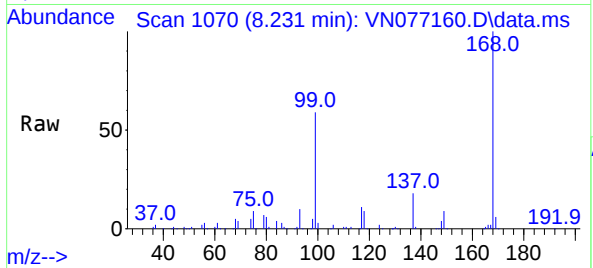




#31
Cyclohexane
Concen: 1.061 ug/l
RT: 8.231 min Scan# 1075
Delta R.T. -0.029 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

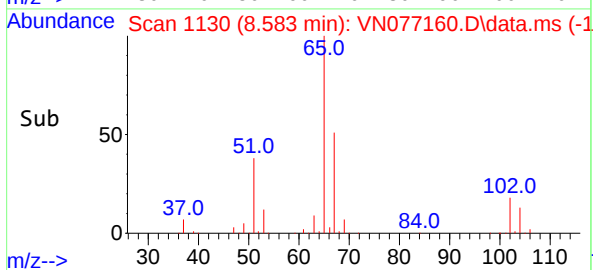
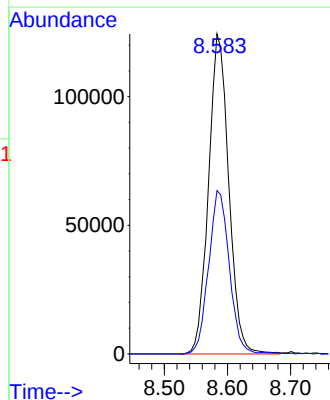
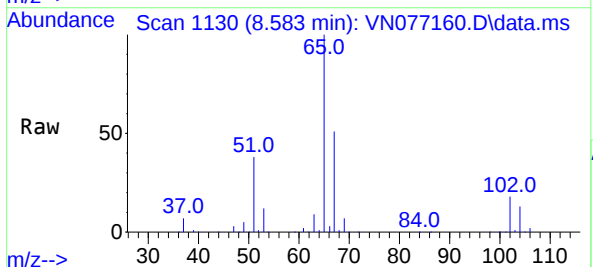
Instrument :
MSVOA_N
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MW-4

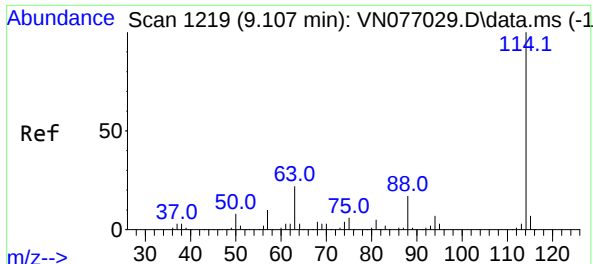
Tgt Ion: 56 Resp: 9829
Ion Ratio Lower Upper
56 100
69 123.0 22.8 34.2#
84 128.4 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 48.922 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

Tgt Ion: 65 Resp: 277009
Ion Ratio Lower Upper
65 100
67 52.3 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077160.D

Acq: 23 Mar 2023 19:32

Instrument :

MSVOA_N

ClientSampleId :

MW-4

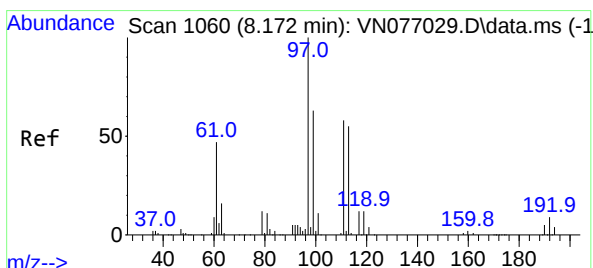
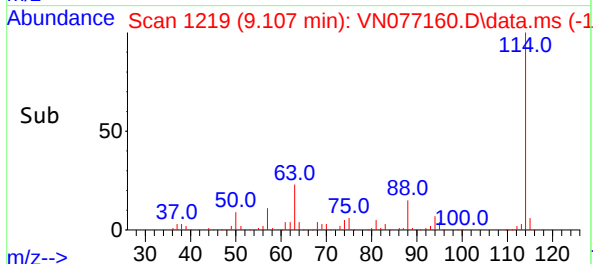
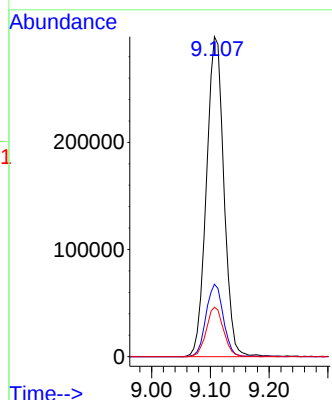
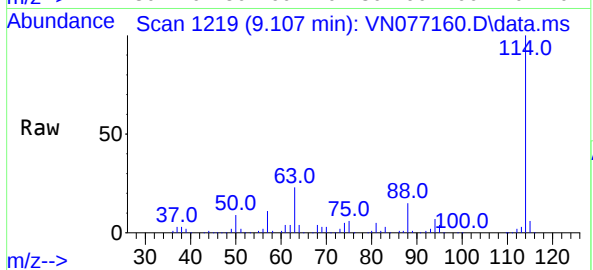
Tgt Ion:114 Resp: 614805

Ion Ratio Lower Upper

114 100

63 22.7 0.0 44.6

88 15.4 0.0 33.8



#35

Dibromofluoromethane

Concen: 48.220 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077160.D

Acq: 23 Mar 2023 19:32

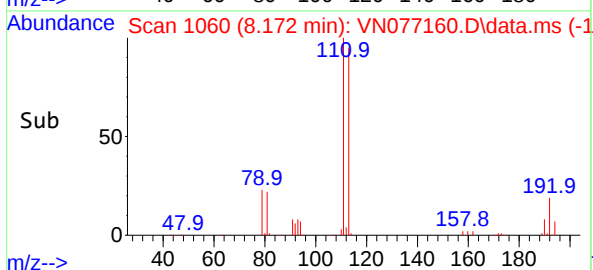
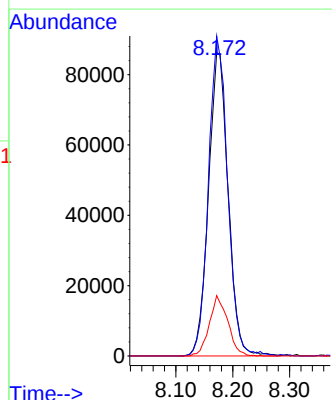
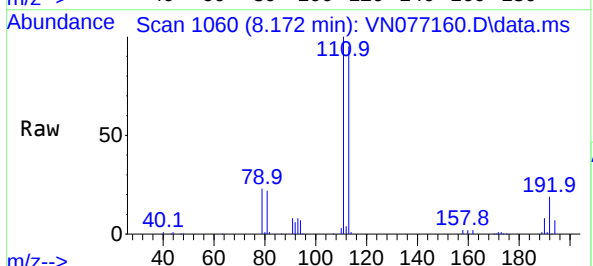
Tgt Ion:113 Resp: 207615

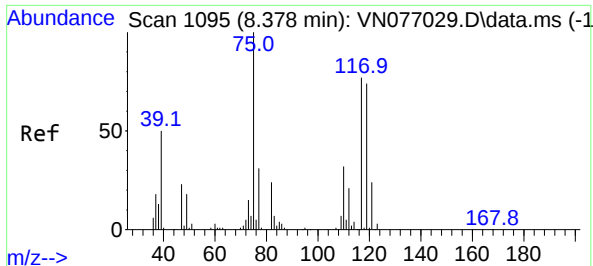
Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.2

192 18.6 13.0 19.6

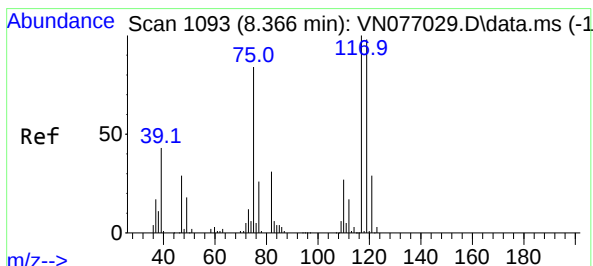
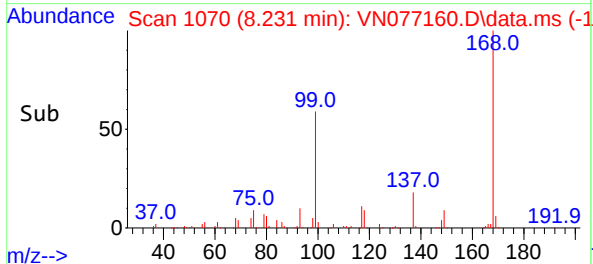
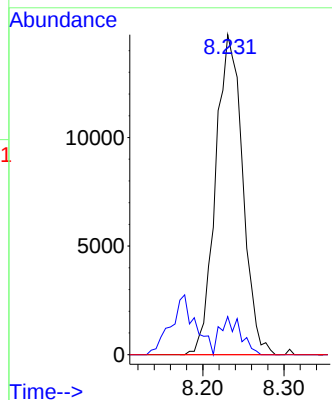
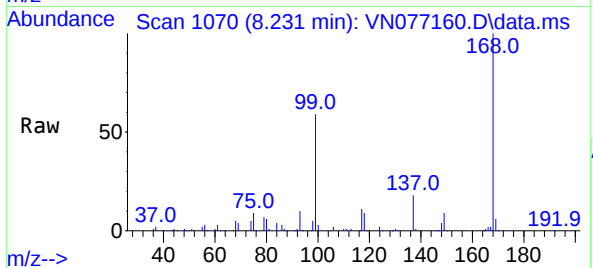




#36
1,1-Dichloropropene
Concen: 5.077 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

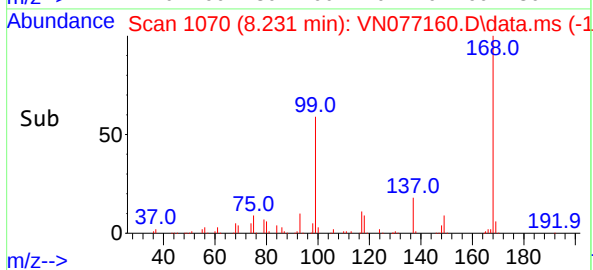
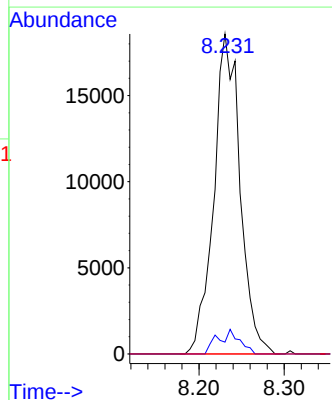
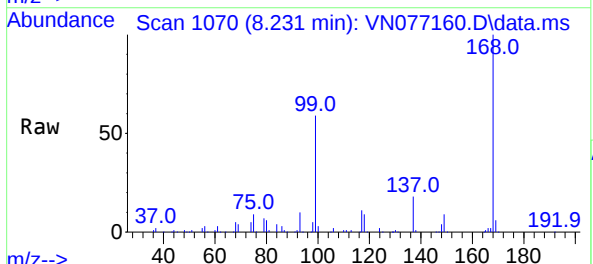
Instrument :
MSVOA_N
ClientSampleId :
MW-4

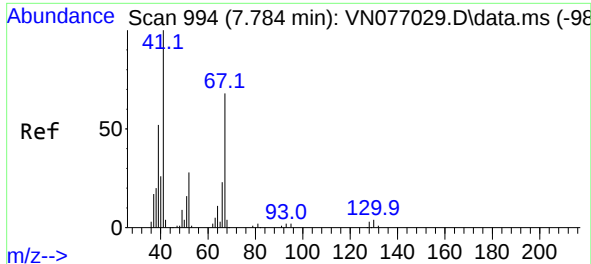
Tgt Ion: 75 Resp: 34140
Ion Ratio Lower Upper
75 100
110 9.0 15.9 47.7#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 6.087 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.135 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

Tgt Ion: 117 Resp: 39869
Ion Ratio Lower Upper
117 100
119 3.7 78.2 117.2#
121 0.0 23.2 34.8#

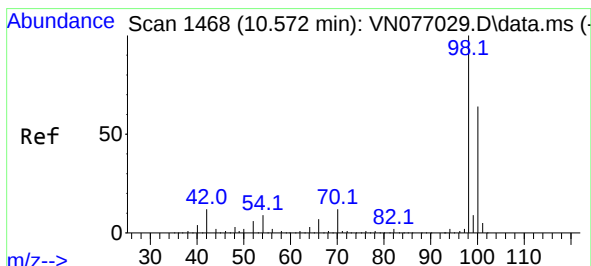
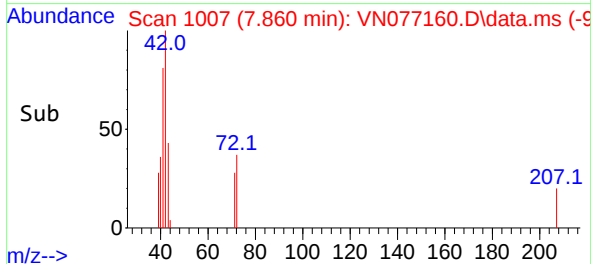
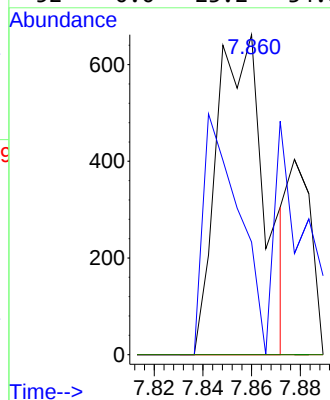
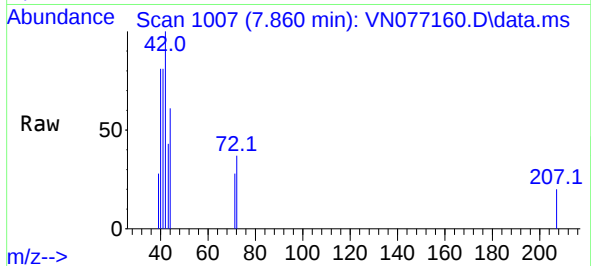




#41
Methacrylonitrile
Concen: 0.235 ug/l
RT: 7.860 min Scan# 1007
Delta R.T. 0.076 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

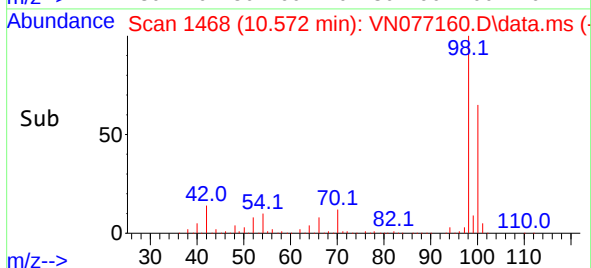
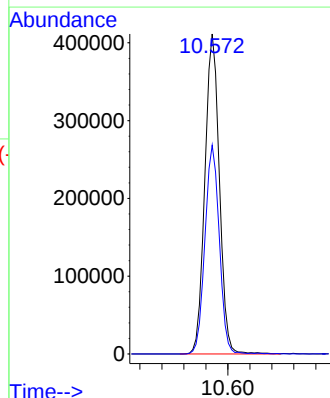
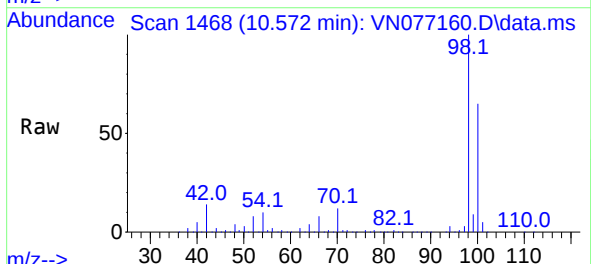
Instrument :
MSVOA_N
ClientSampleId :
MW-4

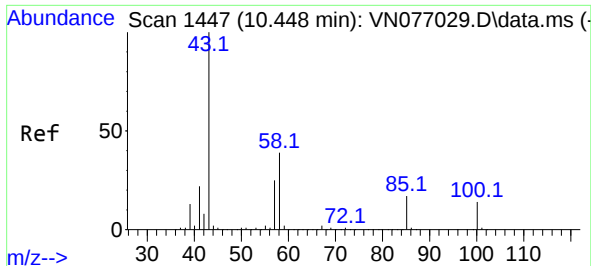
Tgt Ion: 41	Resp:	911	
Ion	Ratio	Lower	Upper
41	100		
39	44.0	41.6	62.4
67	0.0	53.8	80.8#
52	0.0	23.2	34.8#



#50
Toluene-d8
Concen: 49.024 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

Tgt Ion: 98	Resp: 753992
Ion Ratio	Lower Upper
98 100	
100 64.4	51.6 77.4

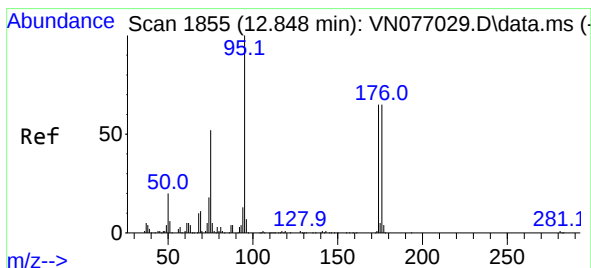
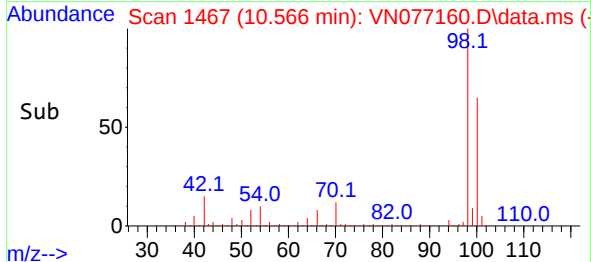
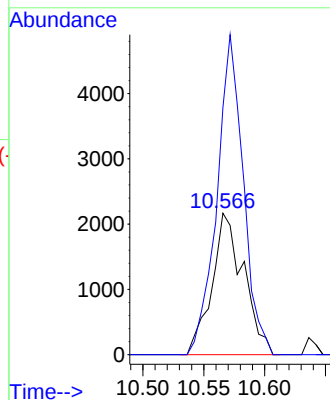
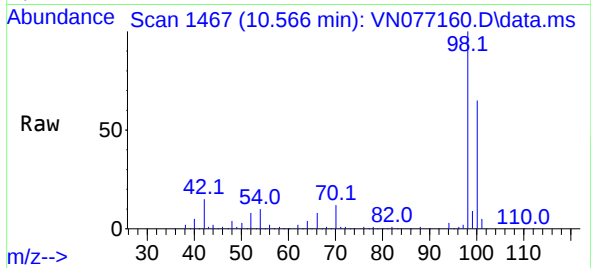




#51
4-Methyl-2-Pentanone
Concen: 0.559 ug/l
RT: 10.566 min Scan# 1447
Delta R.T. 0.118 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

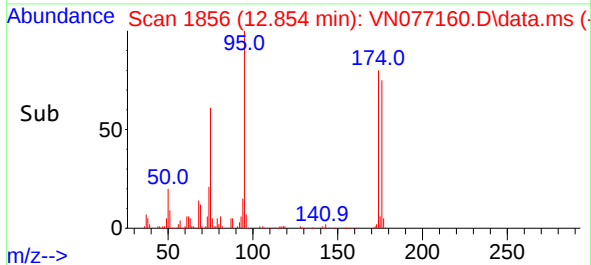
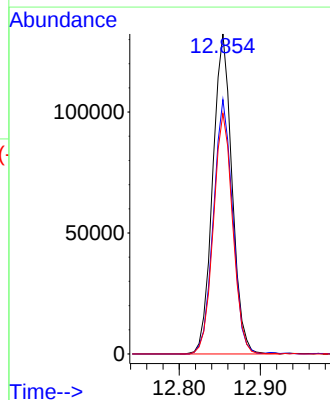
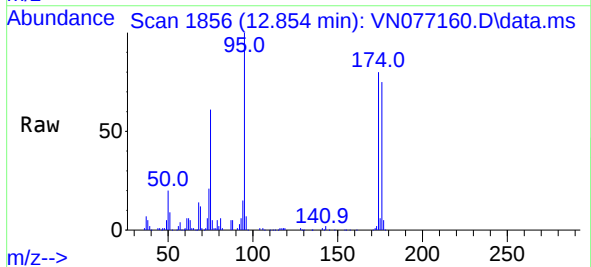
Instrument :
MSVOA_N
ClientSampleId :
MW-4

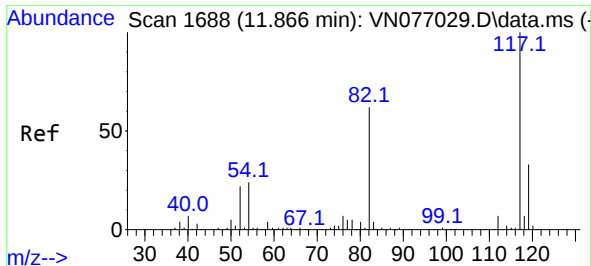
Tgt Ion: 43 Resp: 3914
Ion Ratio Lower Upper
43 100
58 189.2 31.1 46.7#



#62
4-Bromofluorobenzene
Concen: 40.199 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

Tgt Ion: 95 Resp: 218472
Ion Ratio Lower Upper
95 100
174 78.9 0.0 136.6
176 75.0 0.0 130.0

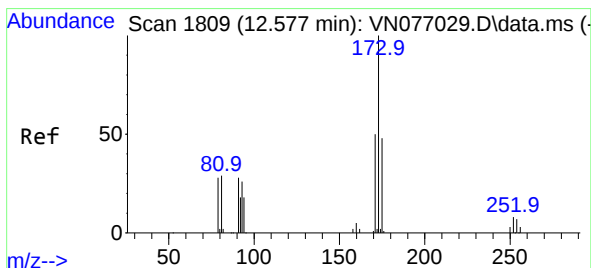
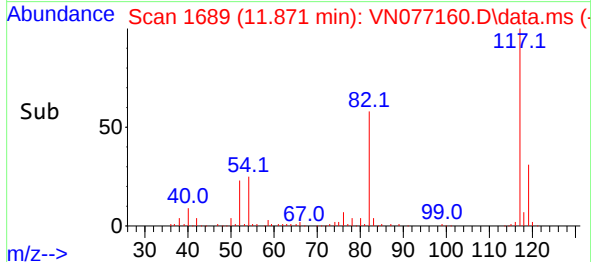
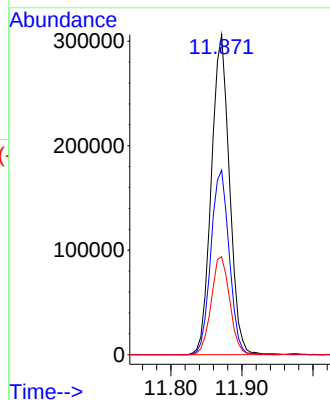
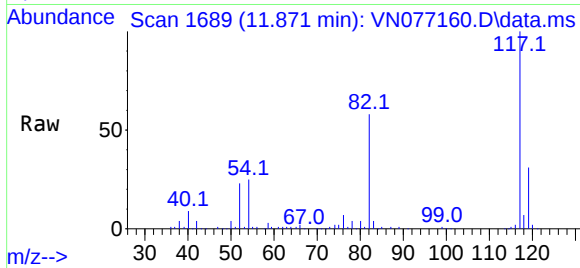




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.005 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

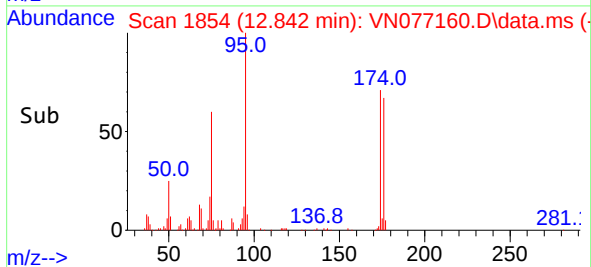
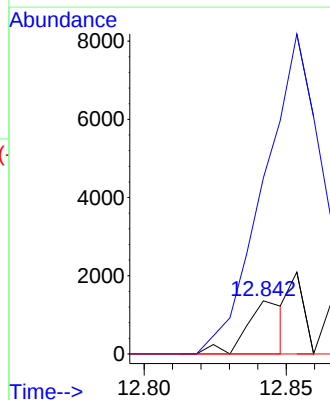
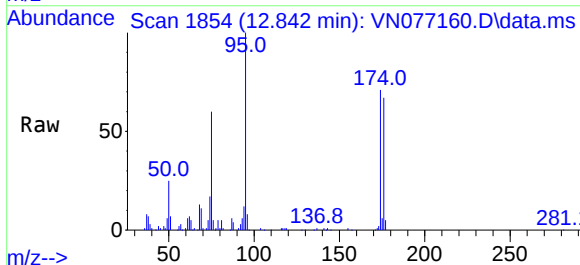
Instrument :
MSVOA_N
ClientSampleId :
MW-4

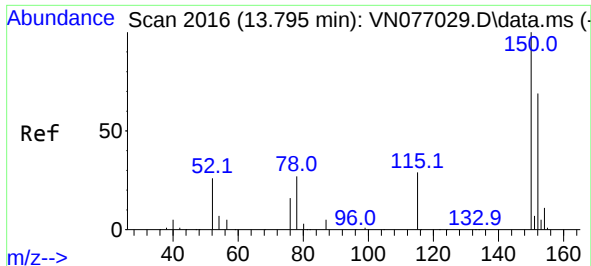
Tgt Ion:117 Resp: 542301
Ion Ratio Lower Upper
117 100
82 57.7 49.4 74.0
119 30.6 26.5 39.7



#71
Bromoform
Concen: 0.400 ug/l
RT: 12.842 min Scan# 1854
Delta R.T. 0.265 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

Tgt Ion:173 Resp: 1251
Ion Ratio Lower Upper
173 100
175 0.0 24.5 73.5#
254 0.0 0.1 0.1#

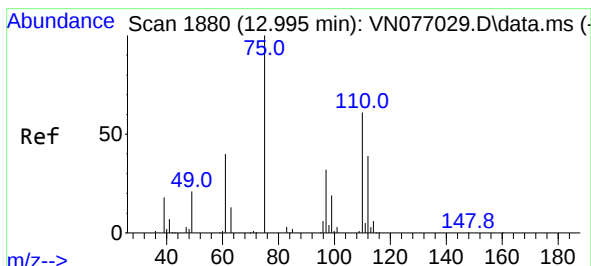
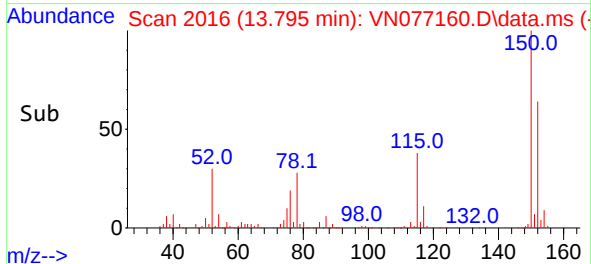
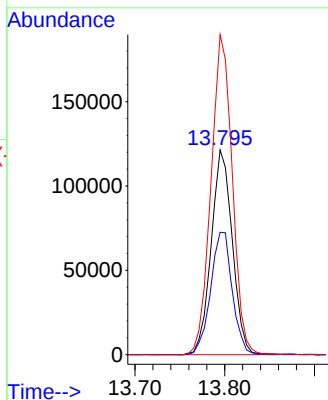
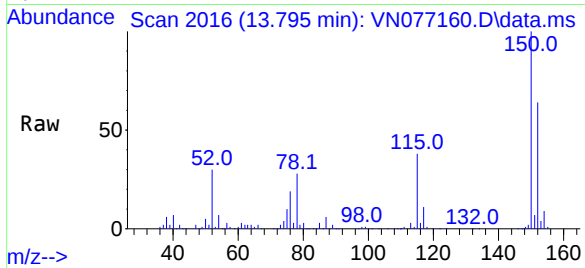




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.795 min Scan# 2016
 Delta R.T. -0.000 min
 Lab File: VN077160.D
 Acq: 23 Mar 2023 19:32

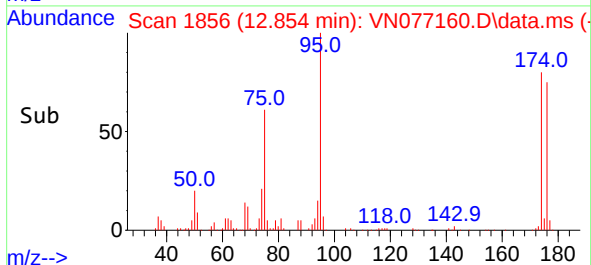
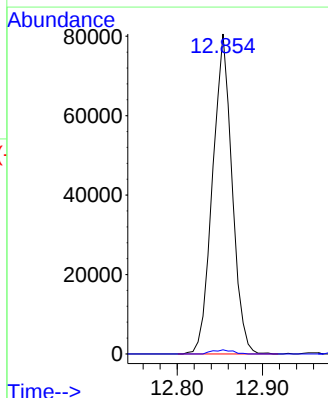
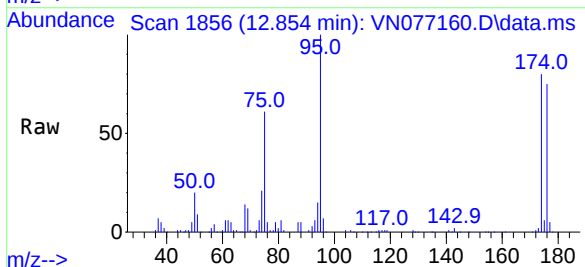
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

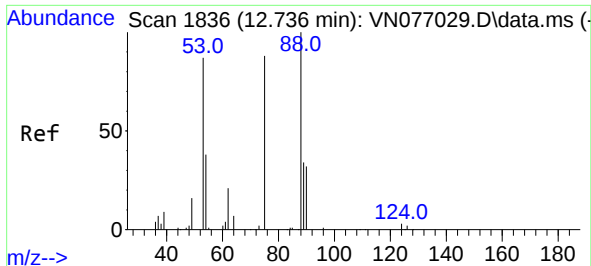
Tgt Ion:152 Resp: 198620
 Ion Ratio Lower Upper
 152 100
 115 61.4 31.9 95.7
 150 157.2 0.0 348.0



#76
 1,2,3-Trichloropropane
 Concen: 24.894 ug/l
 RT: 12.854 min Scan# 1856
 Delta R.T. -0.141 min
 Lab File: VN077160.D
 Acq: 23 Mar 2023 19:32

Tgt Ion: 75 Resp: 127894
 Ion Ratio Lower Upper
 75 100
 77 1.4 107.3 322.0#

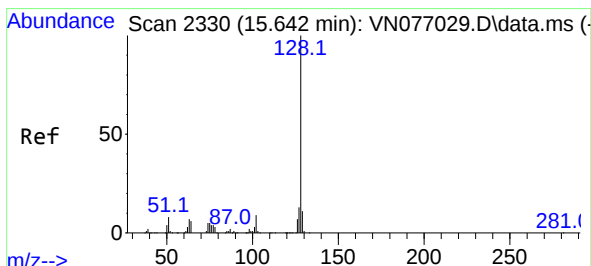
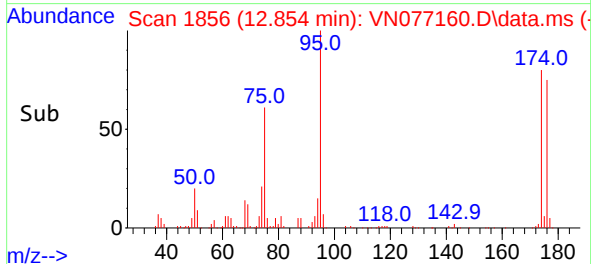
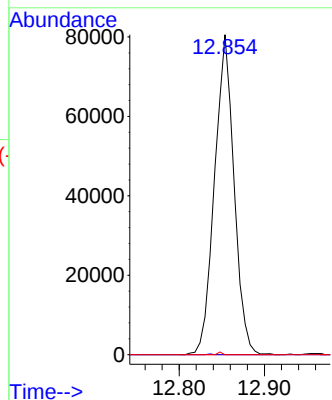
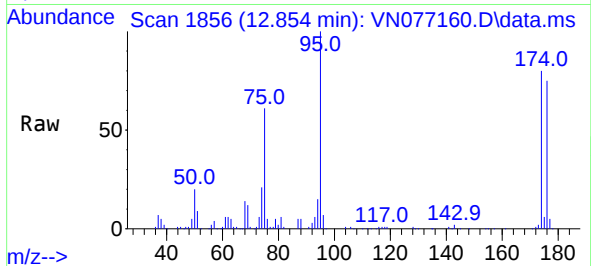




#81
trans-1,4-Dichloro-2-butene
Concen: 68.522 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

Instrument :
MSVOA_N
ClientSampleId :
MW-4

Tgt Ion: 75 Resp: 127894
Ion Ratio Lower Upper
75 100
53 0.1 80.8 121.2#
89 0.2 34.2 51.4#



#95
Naphthalene
Concen: 1.945 ug/l
RT: 15.630 min Scan# 2328
Delta R.T. -0.012 min
Lab File: VN077160.D
Acq: 23 Mar 2023 19:32

Tgt Ion:128 Resp: 452
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.6 13.0#

