

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032123\
 Data File : VN077088.D
 Acq On : 21 Mar 2023 14:16
 Operator : JC\MD
 Sample : 02001-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IRV-2

Quant Time: Mar 21 23:16:38 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)

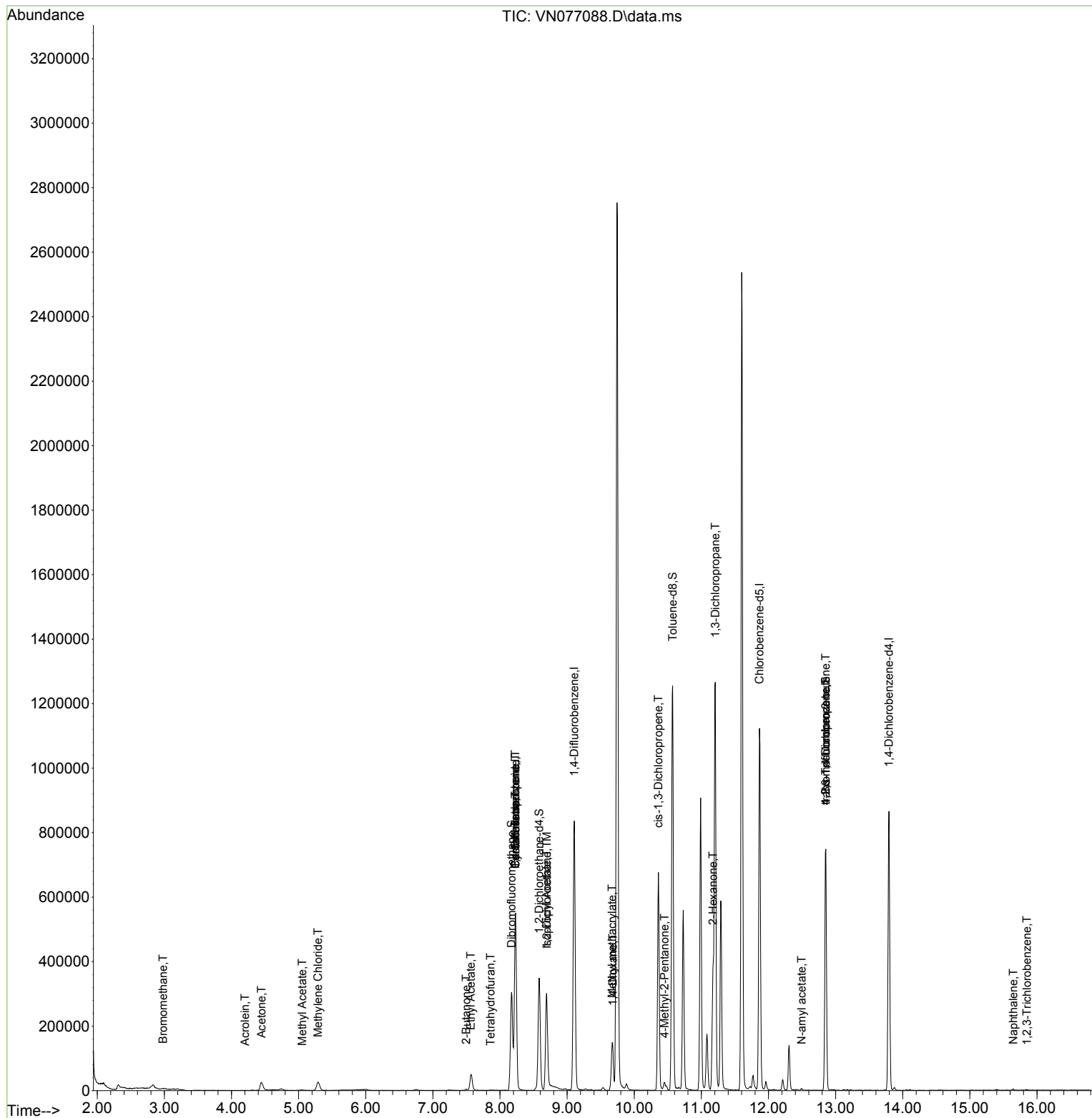
Internal Standards						
1) Pentafluorobenzene	8.231	168	384164	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	708599	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	628880	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	226534	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	283554	46.209	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.420%		
35) Dibromofluoromethane	8.172	113	219827	44.298	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	88.600%		
50) Toluene-d8	10.572	98	864729	48.782	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.560%		
62) 4-Bromofluorobenzene	12.854	95	275124	43.922	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	87.840%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.978	94	1191	0.422	ug/l #	69
13) Acrolein	4.202	56	254	0.230	ug/l #	14
16) Acetone	4.449	43	48464	17.725	ug/l	96
18) Methyl Acetate	5.054	43	3557	0.345	ug/l #	75
20) Methylene Chloride	5.290	84	20830	3.510	ug/l	84
25) 2-Butanone	7.495	43	6404	1.601	ug/l	98
29) Tetrahydrofuran	7.860	42	957	0.369	ug/l #	57
31) Cyclohexane	8.231	56	9579	0.954	ug/l #	1
36) 1,1-Dichloropropene	8.231	75	35885	4.630	ug/l #	51
37) Ethyl Acetate	7.566	43	77240	9.314	ug/l	98
38) Carbon Tetrachloride	8.231	117	41872	5.546	ug/l #	14
42) 1,2-Dichloroethane	8.695	62	2246	0.264	ug/l #	76
43) Isopropyl Acetate	8.695	43	358821	27.698	ug/l #	88
48) Methyl methacrylate	9.672	41	8893	1.436	ug/l #	41
49) 1,4-Dioxane	9.684	88	108	1.021	ug/l #	1
51) 4-Methyl-2-Pentanone	10.454	43	25266	3.132	ug/l #	76
54) cis-1,3-Dichloropropene	10.360	75	117033	12.816	ug/l #	65
57) 1,3-Dichloropropane	11.207	76	13498	1.332	ug/l #	43
59) 2-Hexanone	11.172	43	346039	59.139	ug/l #	24
74) N-amyl acetate	12.495	43	2946	0.335	ug/l #	50
76) 1,2,3-Trichloropropane	12.854	75	145099	24.763	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	145099	68.160	ug/l #	10
95) Naphthalene	15.648	128	3579	2.141	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.848	180	1216	0.313	ug/l #	67

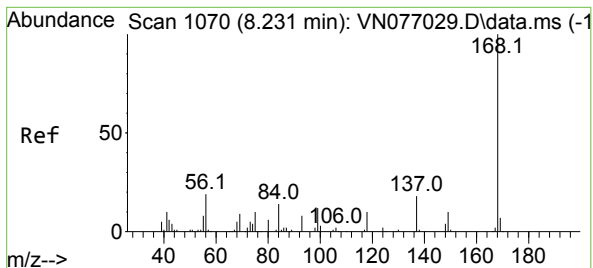
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
Quant Title : SW846 8260
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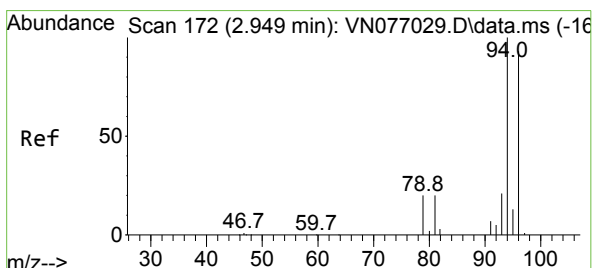
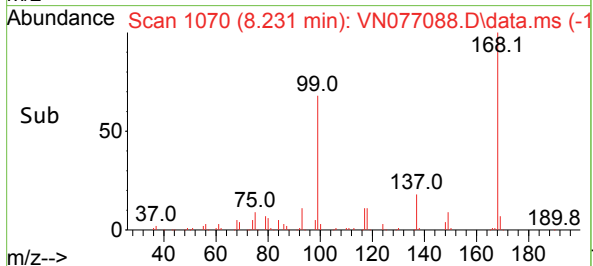
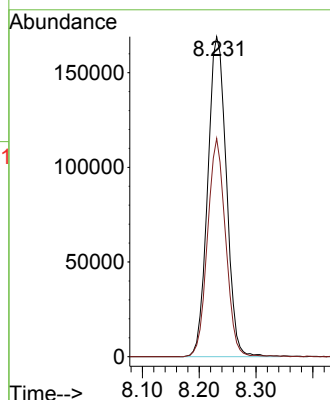
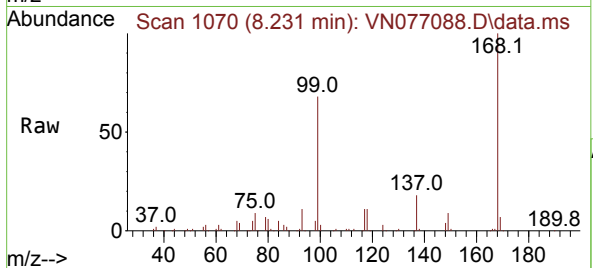




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

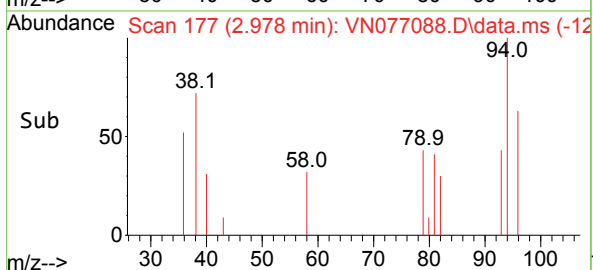
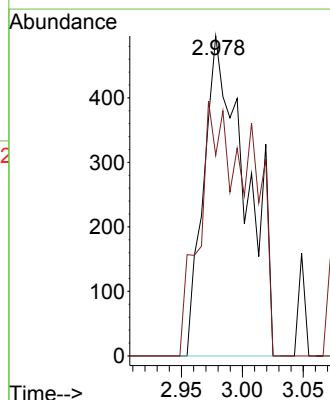
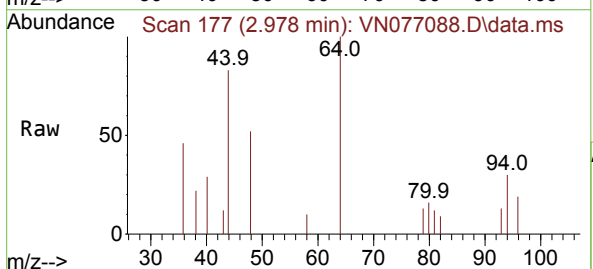
Instrument :
MSVOA_N
ClientSampleId :
IRV-2

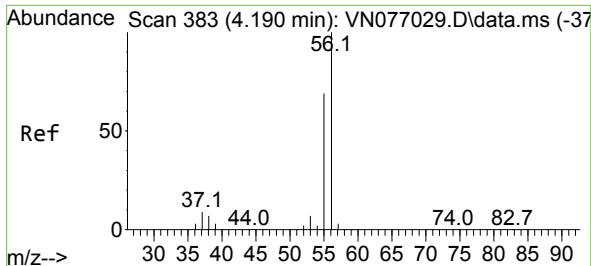
Tgt Ion:168 Resp: 384164
Ion Ratio Lower Upper
168 100
99 68.2 53.9 80.9



#5
Bromomethane
Concen: 0.422 ug/l
RT: 2.978 min Scan# 177
Delta R.T. 0.029 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

Tgt Ion: 94 Resp: 1191
Ion Ratio Lower Upper
94 100
96 62.7 74.1 111.1#

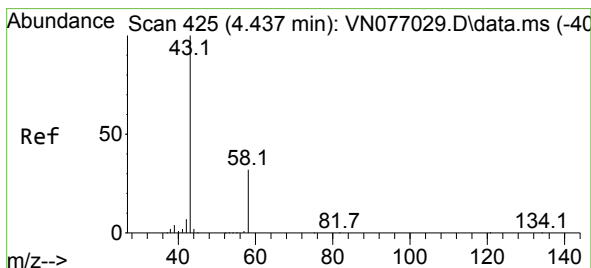
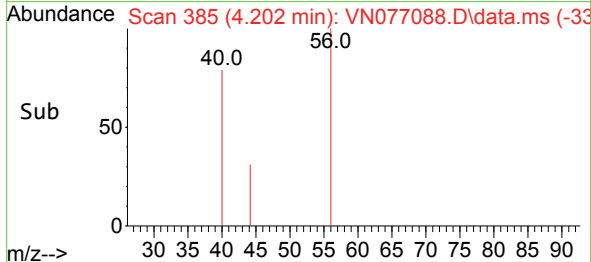
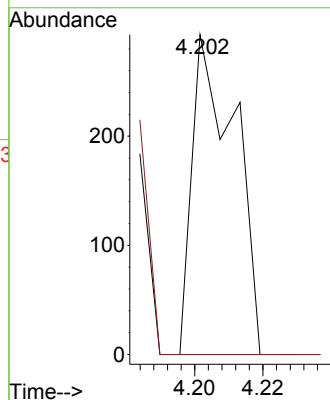
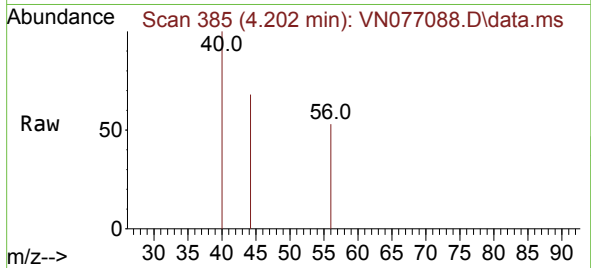




#13
Acrolein
Concen: 0.230 ug/l
RT: 4.202 min Scan# 385
Delta R.T. 0.012 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

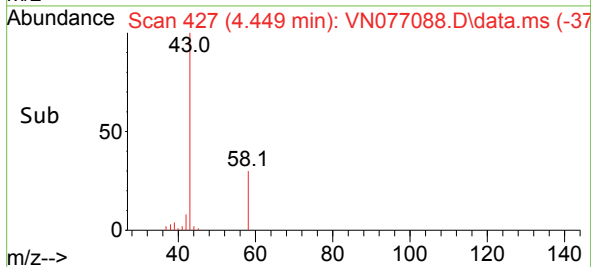
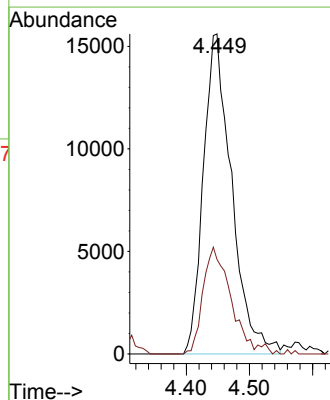
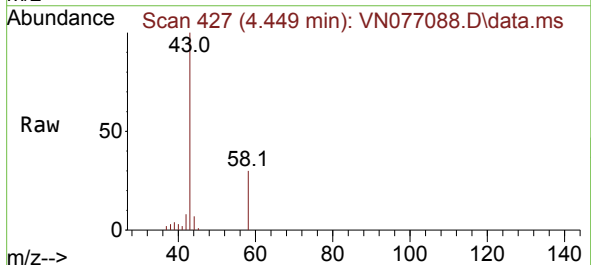
Instrument :
MSVOA_N
ClientSampleId :
IRV-2

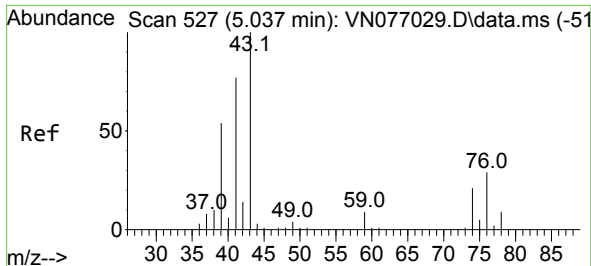
Tgt Ion: 56 Resp: 254
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.6#



#16
Acetone
Concen: 17.725 ug/l
RT: 4.449 min Scan# 427
Delta R.T. 0.012 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

Tgt Ion: 43 Resp: 48464
Ion Ratio Lower Upper
43 100
58 29.6 25.4 38.0

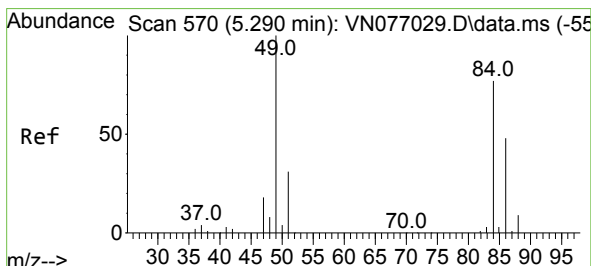
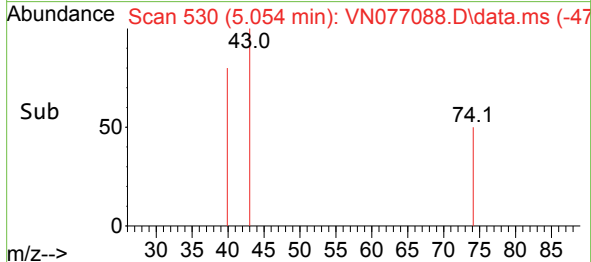
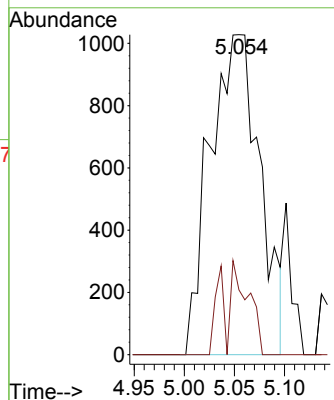
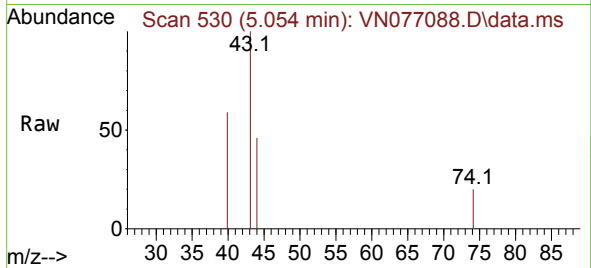




#18
Methyl Acetate
Concen: 0.345 ug/l
RT: 5.054 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

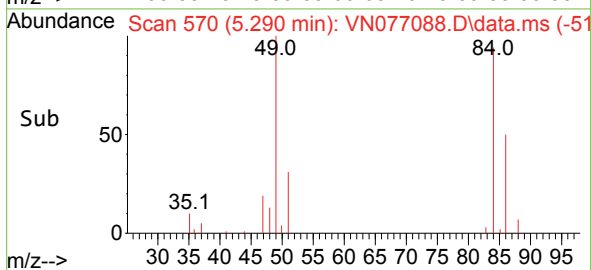
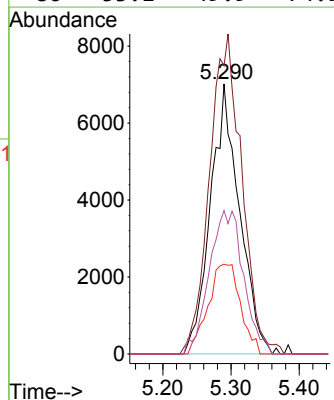
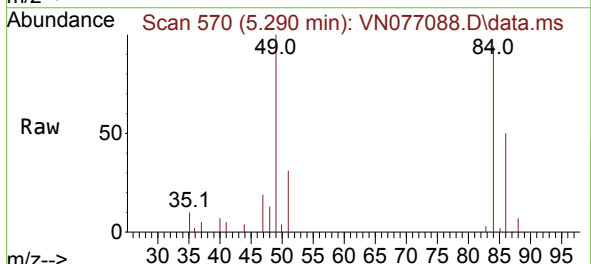
Instrument :
MSVOA_N
ClientSampleId :
IRV-2

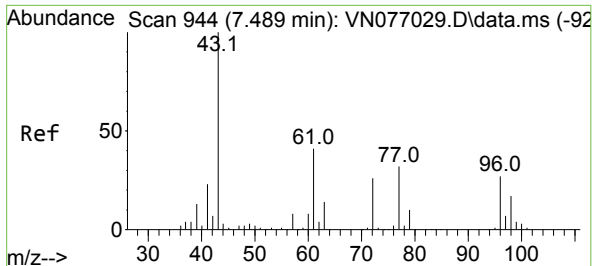
Tgt Ion: 43 Resp: 3557
Ion Ratio Lower Upper
43 100
74 10.3 17.7 26.5#



#20
Methylene Chloride
Concen: 3.510 ug/l
RT: 5.290 min Scan# 570
Delta R.T. -0.000 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

Tgt Ion: 84 Resp: 20830
Ion Ratio Lower Upper
84 100
49 106.7 103.8 155.6
51 33.2 32.3 48.5
86 53.1 49.9 74.9





#25

2-Butanone

Concen: 1.601 ug/l

RT: 7.495 min Scan# 944

Delta R.T. 0.006 min

Lab File: VN077088.D

Acq: 21 Mar 2023 14:16

Instrument :

MSVOA_N

ClientSampleId :

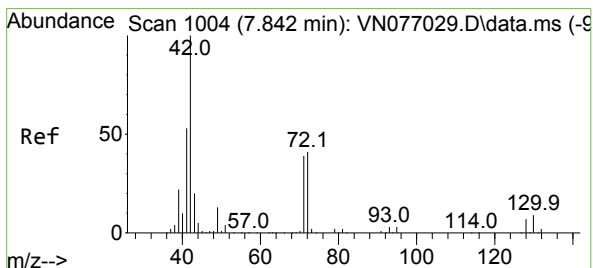
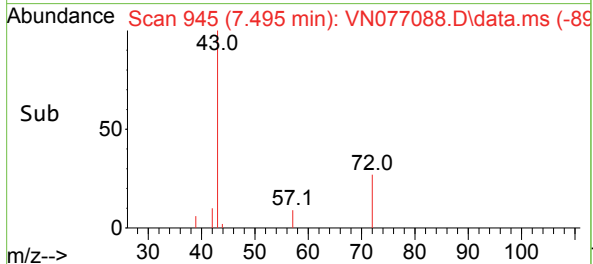
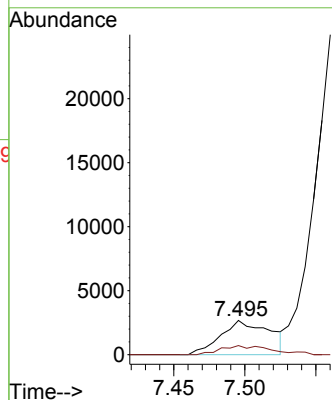
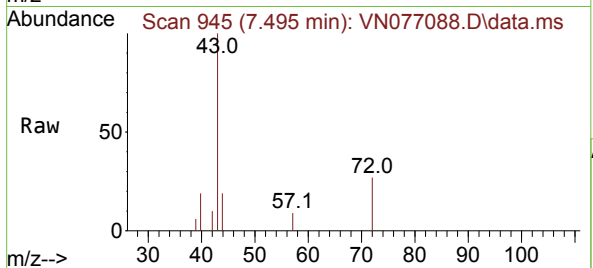
IRV-2

Tgt Ion: 43 Resp: 6404

Ion Ratio Lower Upper

43 100

72 26.8 20.7 31.1



#29

Tetrahydrofuran

Concen: 0.369 ug/l

RT: 7.860 min Scan# 1007

Delta R.T. 0.018 min

Lab File: VN077088.D

Acq: 21 Mar 2023 14:16

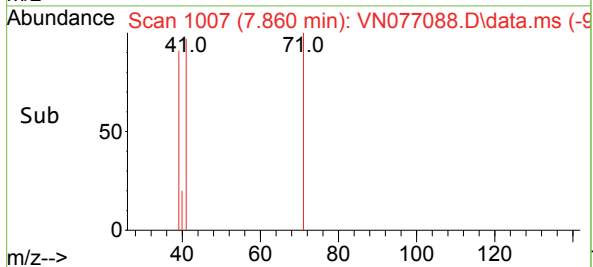
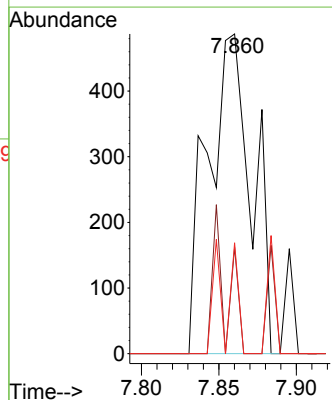
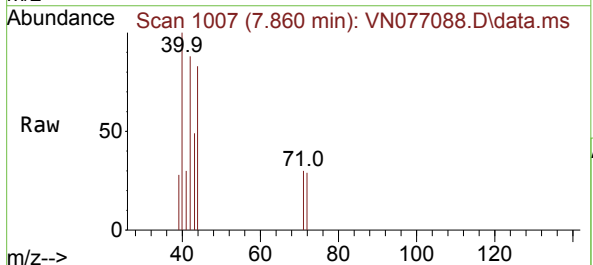
Tgt Ion: 42 Resp: 957

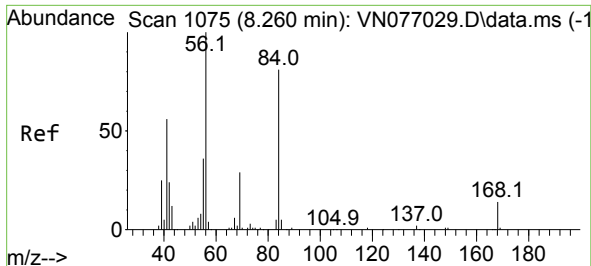
Ion Ratio Lower Upper

42 100

72 14.3 33.2 49.8#

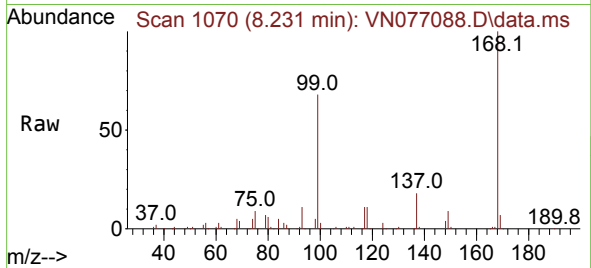
71 12.6 31.0 46.4#



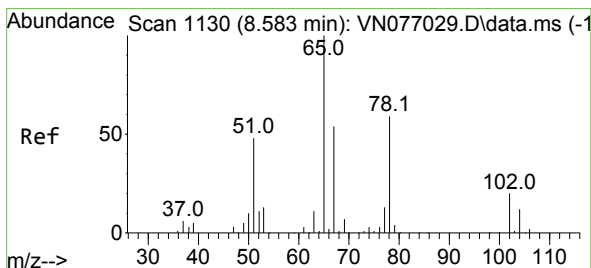
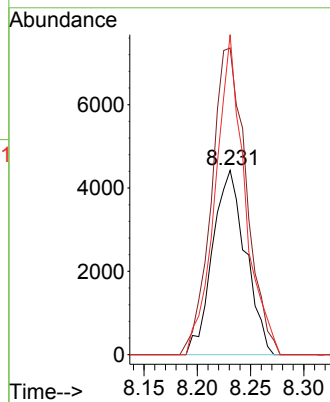
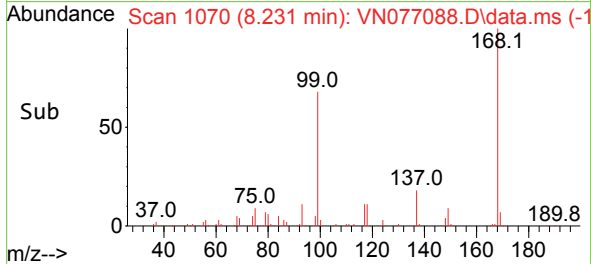


#31
Cyclohexane
Concen: 0.954 ug/l
RT: 8.231 min Scan# 1075
Delta R.T. -0.029 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

Instrument :
MSVOA_N
ClientSampleId :
IRV-2

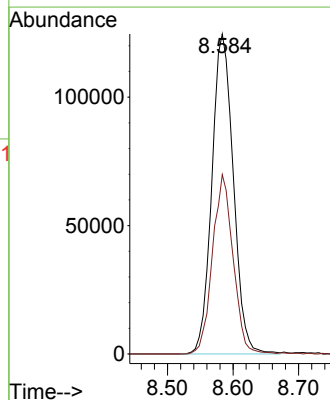
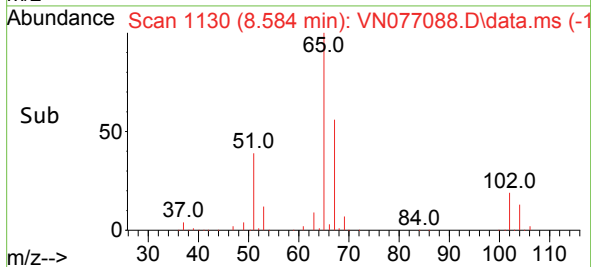
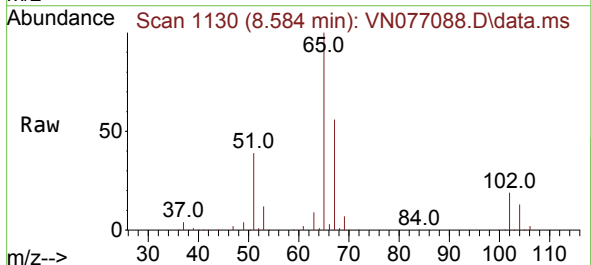


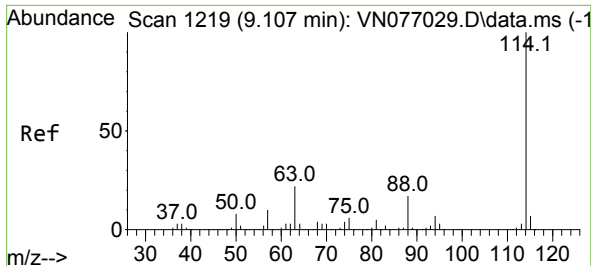
Tgt Ion: 56 Resp: 9579
Ion Ratio Lower Upper
56 100
69 166.4 22.8 34.2#
84 173.6 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 46.209 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. 0.001 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

Tgt Ion: 65 Resp: 283554
Ion Ratio Lower Upper
65 100
67 53.7 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN077088.D

Acq: 21 Mar 2023 14:16

Instrument :

MSVOA_N

ClientSampleId :

IRV-2

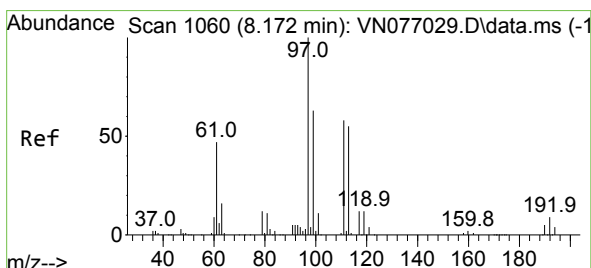
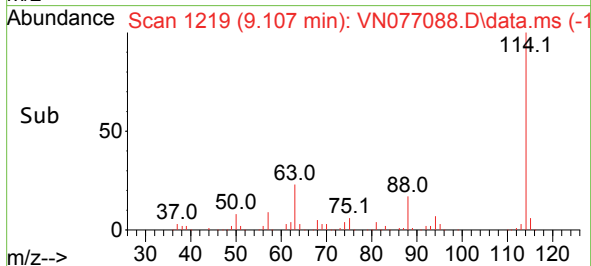
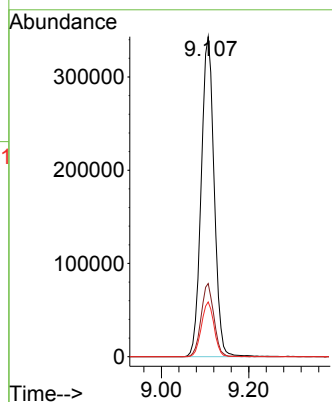
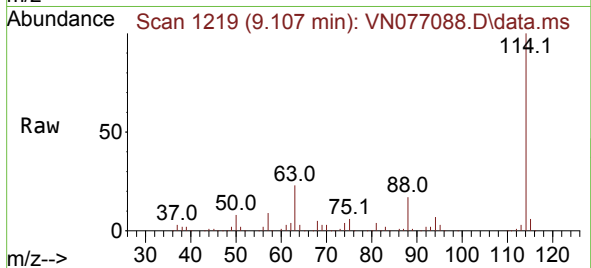
Tgt Ion:114 Resp: 708599

Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

88 17.1 0.0 33.8



#35

Dibromofluoromethane

Concen: 44.298 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. 0.000 min

Lab File: VN077088.D

Acq: 21 Mar 2023 14:16

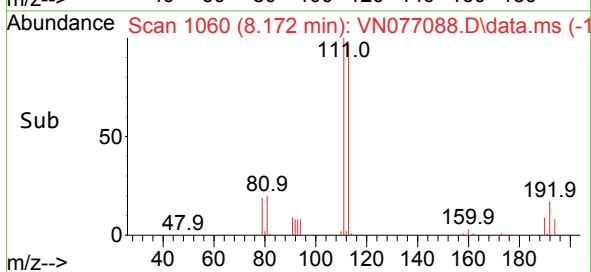
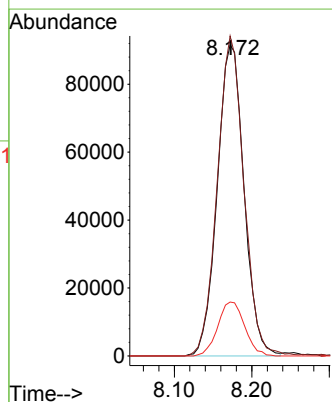
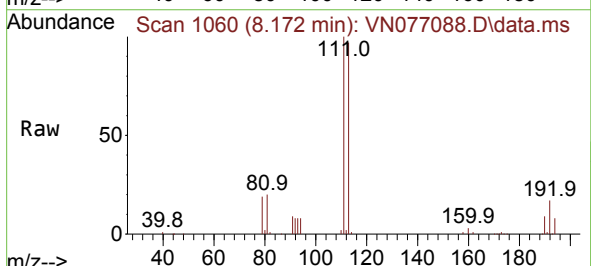
Tgt Ion:113 Resp: 219827

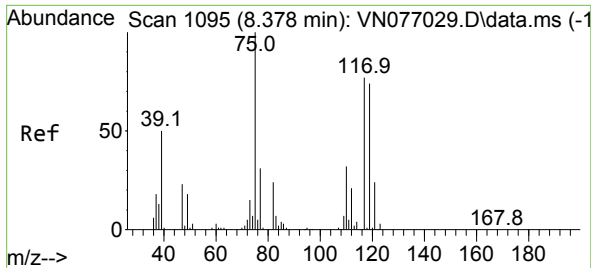
Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.2

192 17.4 13.0 19.6

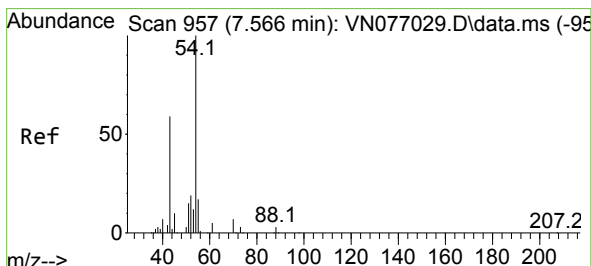
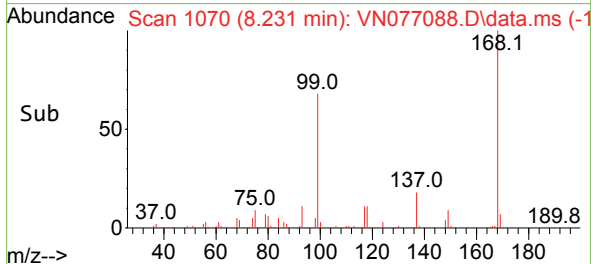
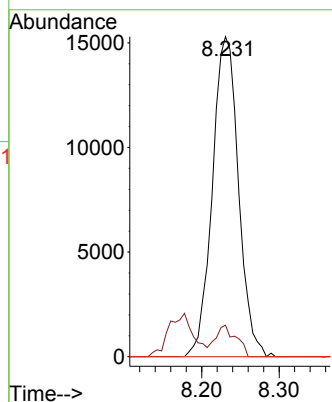
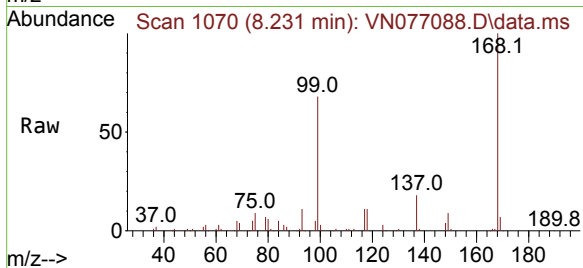




#36
1,1-Dichloropropene
Concen: 4.630 ug/l
RT: 8.231 min Scan# 1095
Delta R.T. -0.147 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

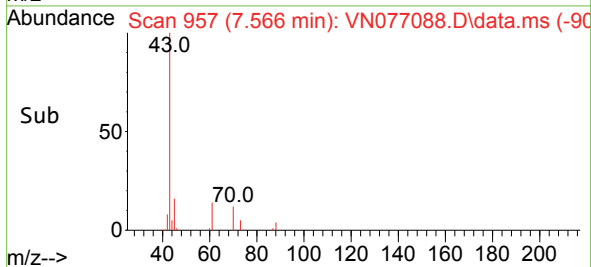
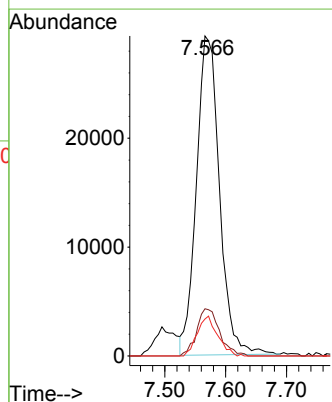
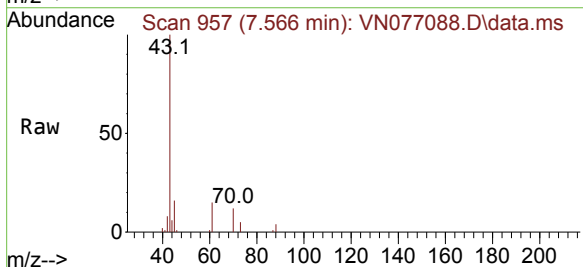
Instrument :
MSVOA_N
ClientSampleId :
IRV-2

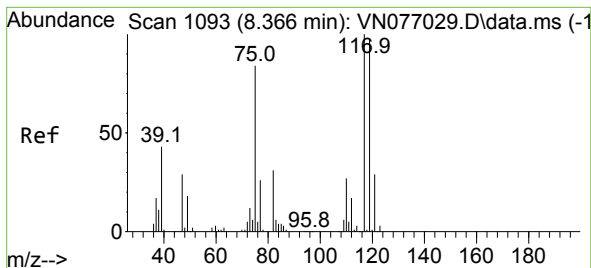
Tgt Ion: 75 Resp: 35885
Ion Ratio Lower Upper
75 100
110 7.7 15.9 47.7#
77 0.0 24.3 36.5#



#37
Ethyl Acetate
Concen: 9.314 ug/l
RT: 7.566 min Scan# 957
Delta R.T. 0.000 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

Tgt Ion: 43 Resp: 77240
Ion Ratio Lower Upper
43 100
61 14.7 11.0 16.6
70 11.0 8.4 12.6





#38

Carbon Tetrachloride

Concen: 5.546 ug/l

RT: 8.231 min Scan# 1093

Delta R.T. -0.135 min

Lab File: VN077088.D

Acq: 21 Mar 2023 14:16

Instrument :

MSVOA_N

ClientSampleId :

IRV-2

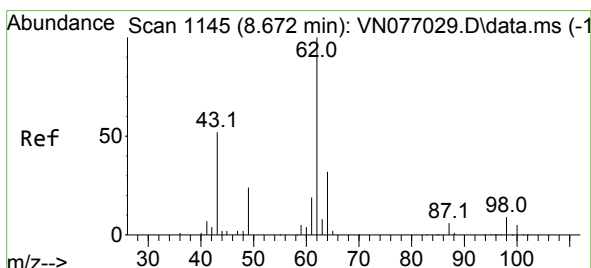
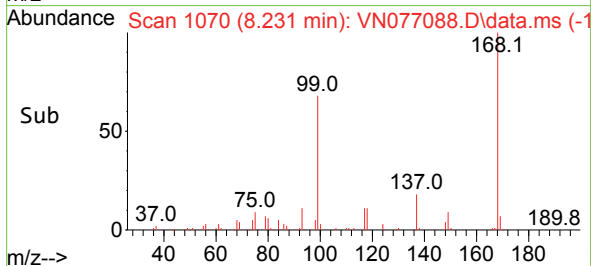
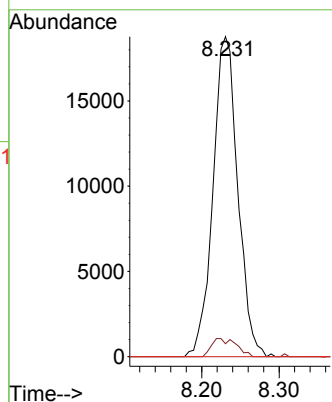
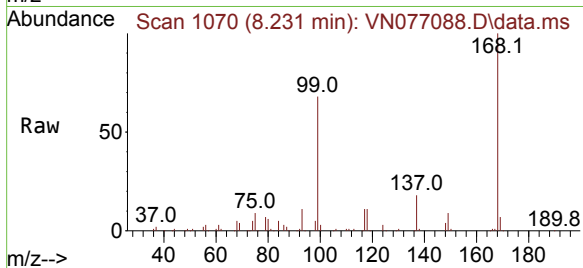
Tgt Ion:117 Resp: 41872

Ion Ratio Lower Upper

117 100

119 4.1 78.2 117.2#

121 0.0 23.2 34.8#



#42

1,2-Dichloroethane

Concen: 0.264 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.024 min

Lab File: VN077088.D

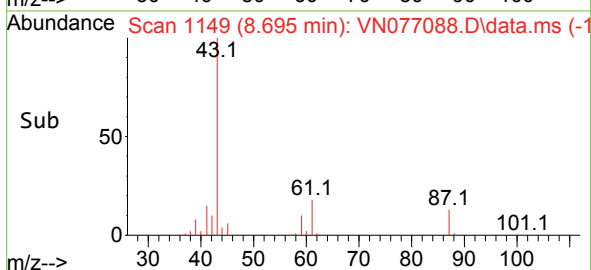
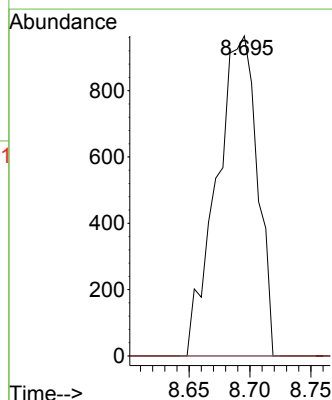
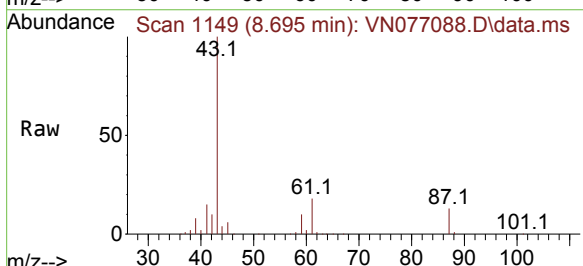
Acq: 21 Mar 2023 14:16

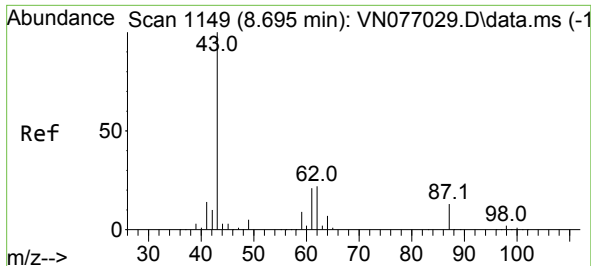
Tgt Ion: 62 Resp: 2246

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.4

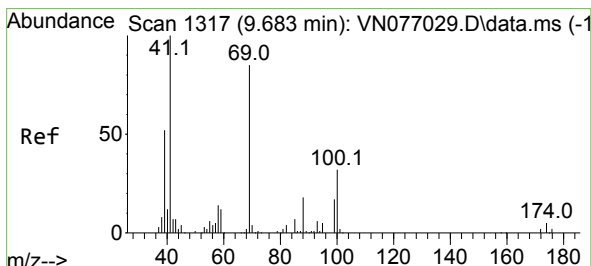
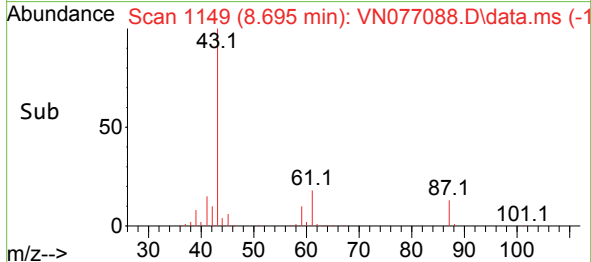
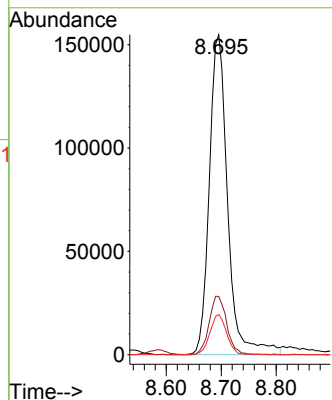
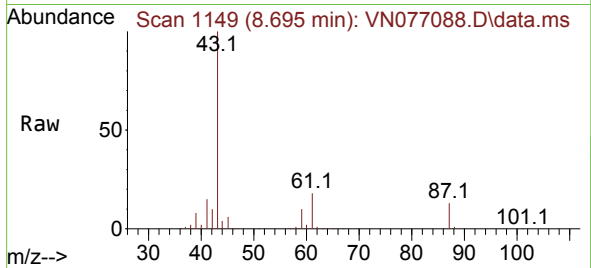




#43
Isopropyl Acetate
Concen: 27.698 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

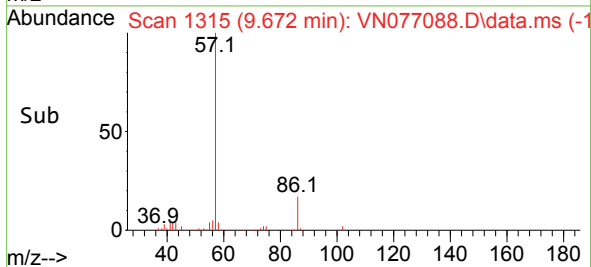
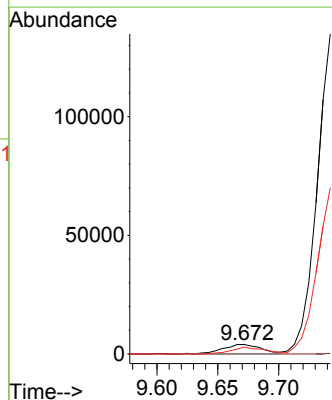
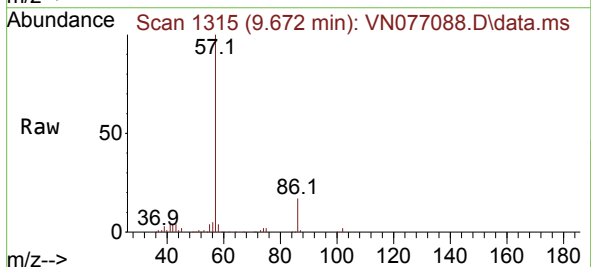
Instrument :
MSVOA_N
ClientSampleId :
IRV-2

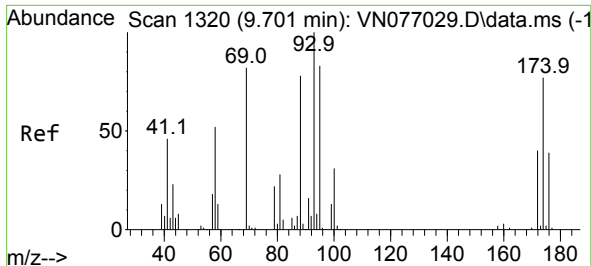
Tgt Ion: 43 Resp: 358821
Ion Ratio Lower Upper
43 100
61 17.5 20.6 30.8#
87 11.4 10.0 15.0



#48
Methyl methacrylate
Concen: 1.436 ug/l
RT: 9.672 min Scan# 1315
Delta R.T. -0.012 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

Tgt Ion: 41 Resp: 8893
Ion Ratio Lower Upper
41 100
69 0.0 64.3 96.5#
39 62.9 43.2 64.8





#49

1,4-Dioxane

Concen: 1.021 ug/l

RT: 9.684 min Scan# 11

Delta R.T. -0.018 min

Lab File: VN077088.D

Acq: 21 Mar 2023 14:16

Instrument :

MSVOA_N

ClientSampleId :

IRV-2

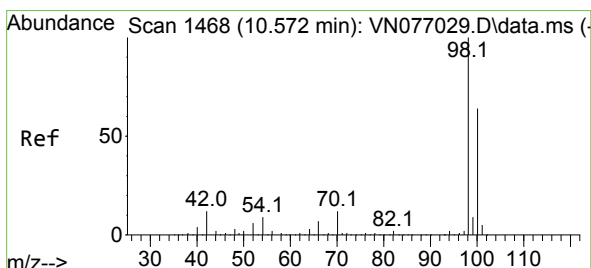
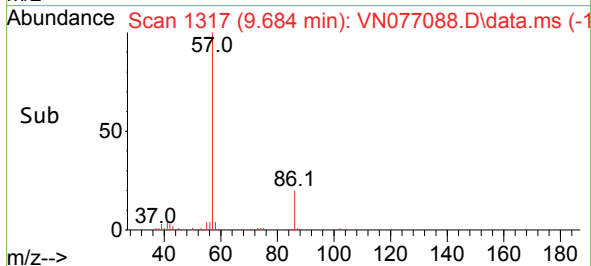
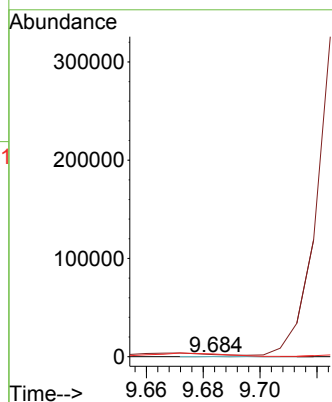
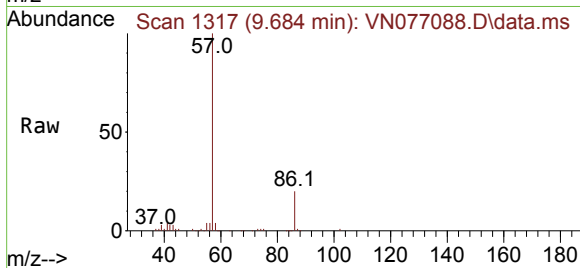
Tgt Ion: 88 Resp: 108

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.2#

58 6650.9 60.8 91.2#



#50

Toluene-d8

Concen: 48.782 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VN077088.D

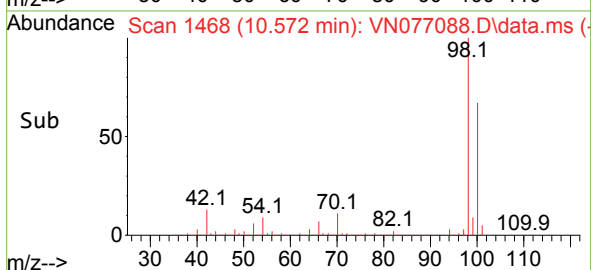
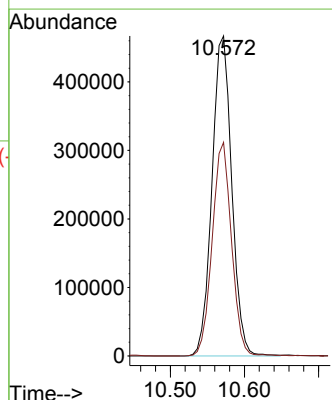
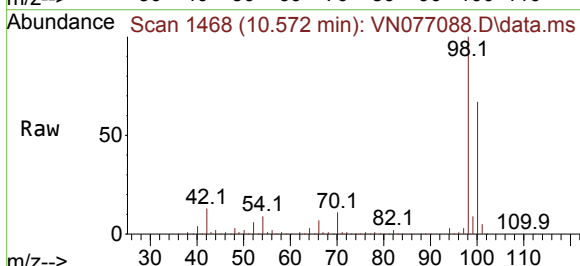
Acq: 21 Mar 2023 14:16

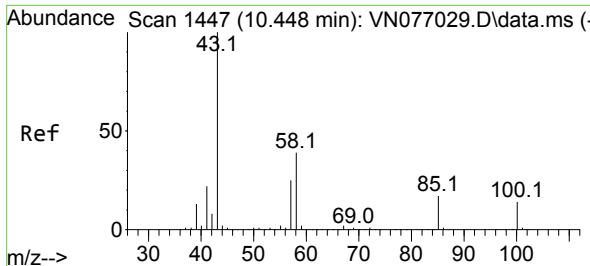
Tgt Ion: 98 Resp: 864729

Ion Ratio Lower Upper

98 100

100 65.2 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 3.132 ug/l

RT: 10.454 min Scan# 1447

Delta R.T. 0.006 min

Lab File: VN077088.D

Acq: 21 Mar 2023 14:16

Instrument :

MSVOA_N

ClientSampleId :

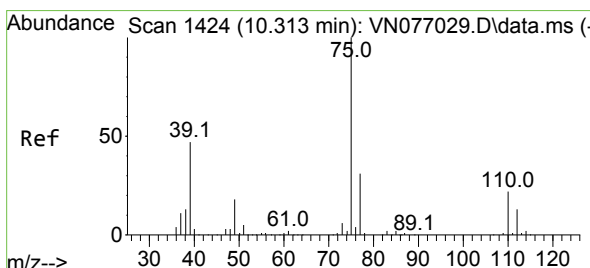
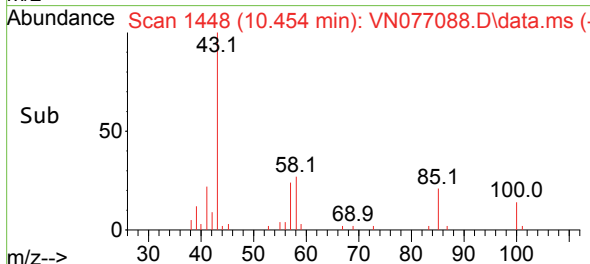
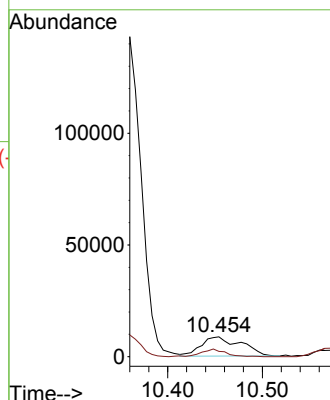
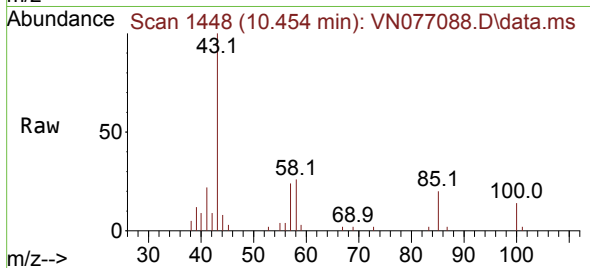
IRV-2

Tgt Ion: 43 Resp: 25266

Ion Ratio Lower Upper

43 100

58 24.1 31.1 46.7#



#54

cis-1,3-Dichloropropene

Concen: 12.816 ug/l

RT: 10.360 min Scan# 1432

Delta R.T. 0.047 min

Lab File: VN077088.D

Acq: 21 Mar 2023 14:16

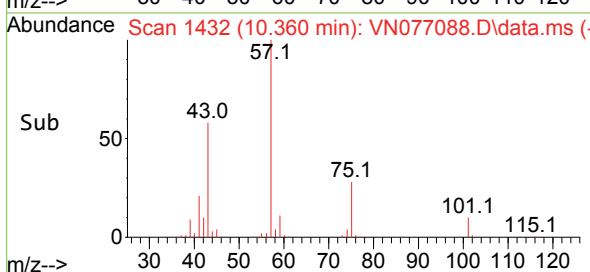
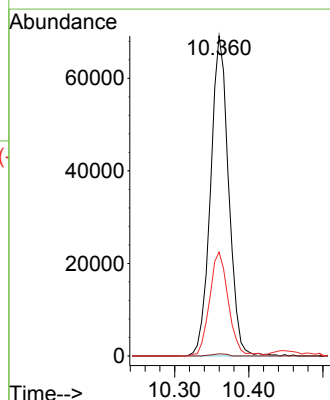
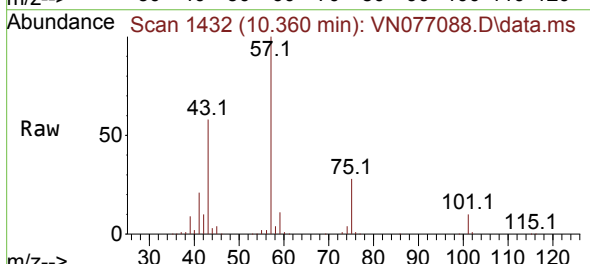
Tgt Ion: 75 Resp: 117033

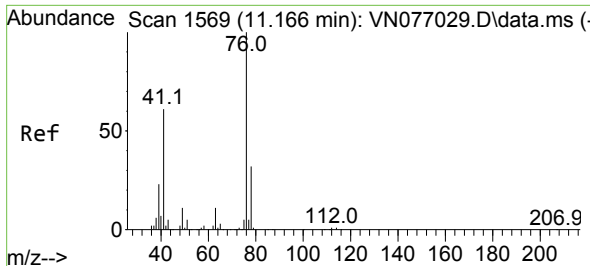
Ion Ratio Lower Upper

75 100

77 0.7 24.5 36.7#

39 32.5 37.8 56.6#





#57

1,3-Dichloropropane

Concen: 1.332 ug/l

RT: 11.207 min Scan# 1576

Delta R.T. 0.041 min

Lab File: VN077088.D

Acq: 21 Mar 2023 14:16

Instrument :

MSVOA_N

ClientSampleId :

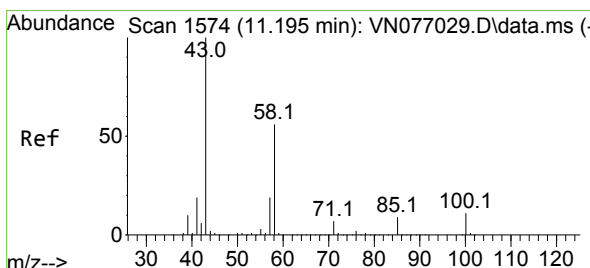
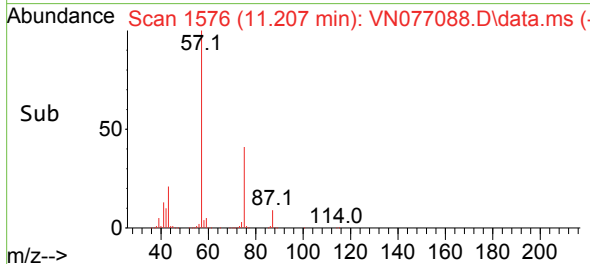
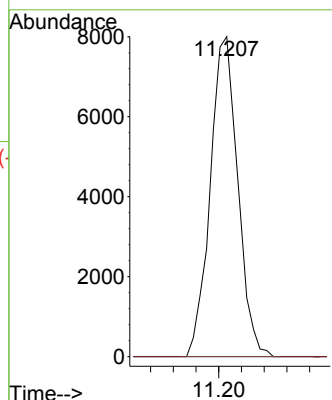
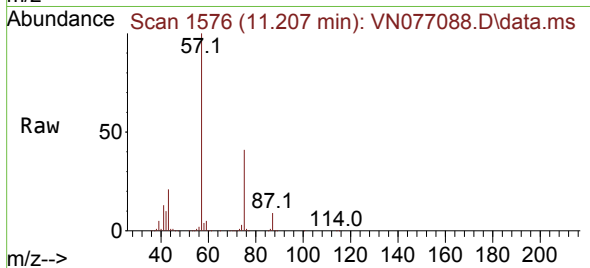
IRV-2

Tgt Ion: 76 Resp: 13498

Ion Ratio Lower Upper

76 100

78 0.0 25.3 37.9#



#59

2-Hexanone

Concen: 59.139 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.023 min

Lab File: VN077088.D

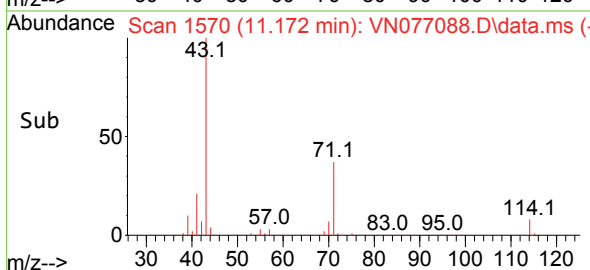
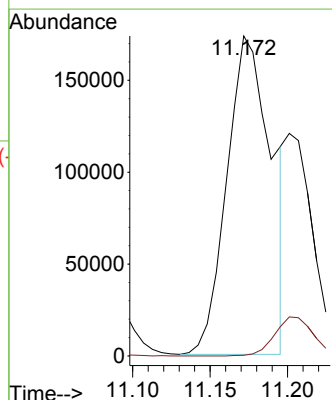
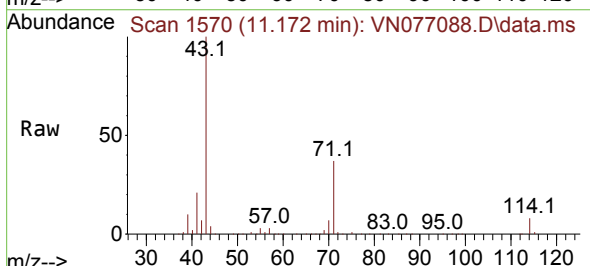
Acq: 21 Mar 2023 14:16

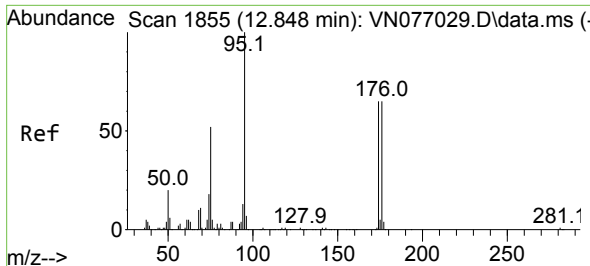
Tgt Ion: 43 Resp: 346039

Ion Ratio Lower Upper

43 100

58 0.0 27.7 83.1#

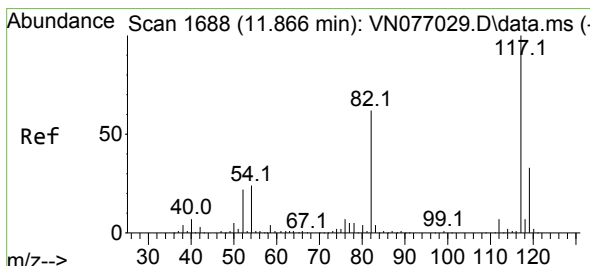
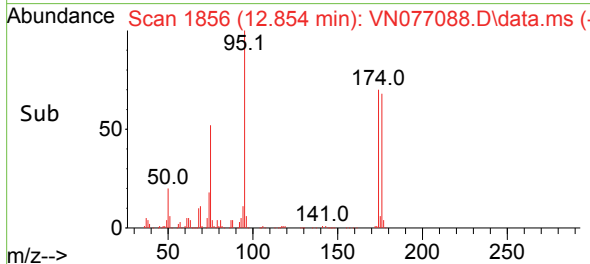
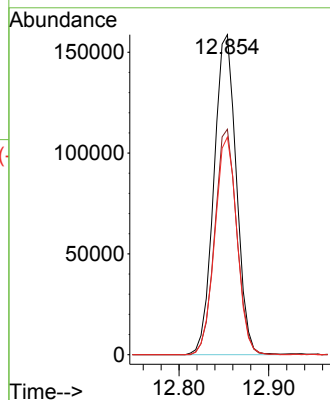
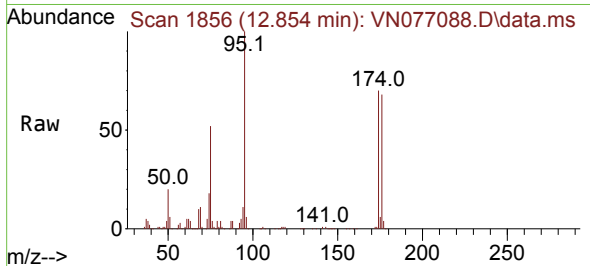




#62
4-Bromofluorobenzene
Concen: 43.922 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

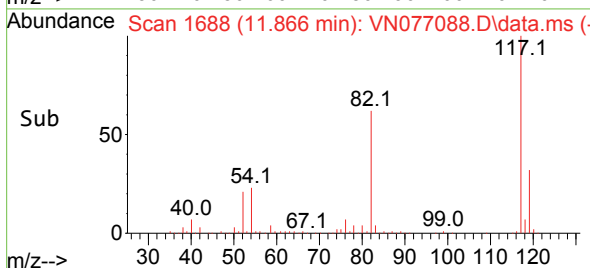
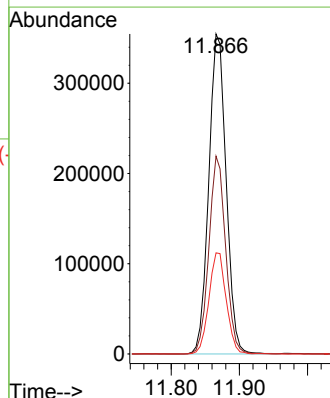
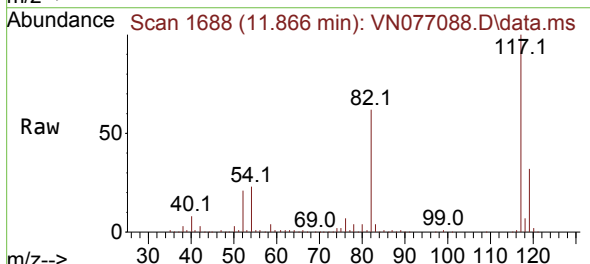
Instrument :
MSVOA_N
ClientSampleId :
IRV-2

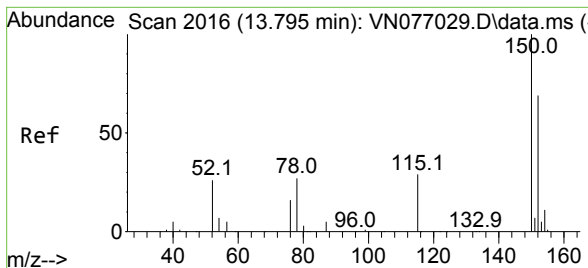
Tgt Ion: 95 Resp: 275124
Ion Ratio Lower Upper
95 100
174 69.2 0.0 136.6
176 67.3 0.0 130.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

Tgt Ion: 117 Resp: 628880
Ion Ratio Lower Upper
117 100
82 61.8 49.4 74.0
119 31.6 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN077088.D

Acq: 21 Mar 2023 14:16

Instrument :

MSVOA_N

ClientSampleId :

IRV-2

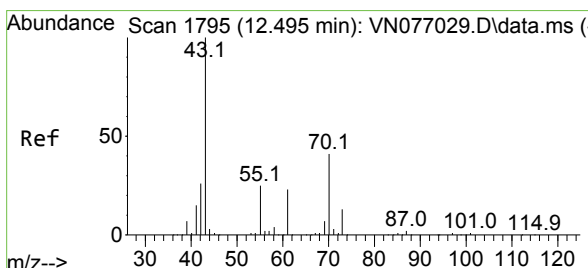
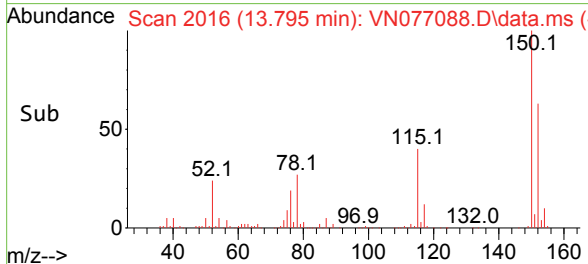
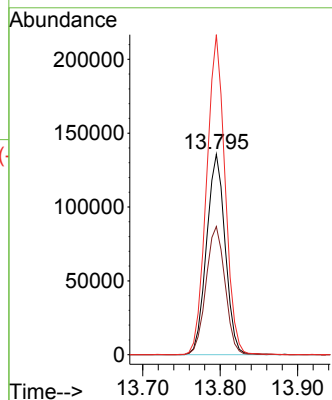
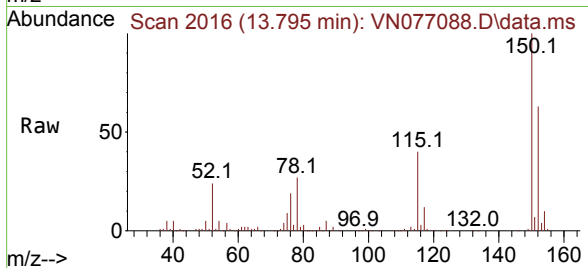
Tgt Ion:152 Resp: 226534

Ion Ratio Lower Upper

152 100

115 65.4 31.9 95.7

150 158.1 0.0 348.0



#74

N-ethyl acetate

Concen: 0.335 ug/l

RT: 12.495 min Scan# 1795

Delta R.T. 0.000 min

Lab File: VN077088.D

Acq: 21 Mar 2023 14:16

Tgt Ion: 43 Resp: 2946

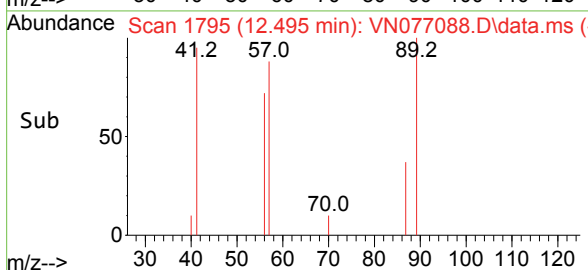
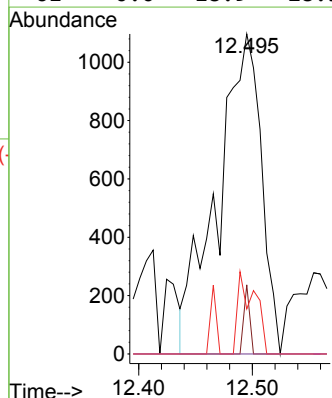
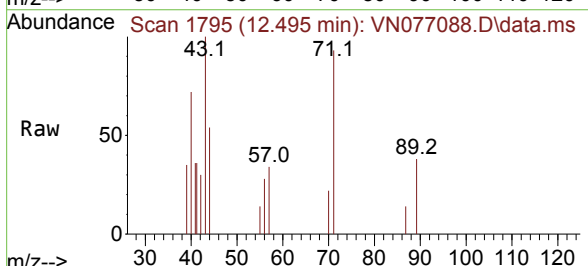
Ion Ratio Lower Upper

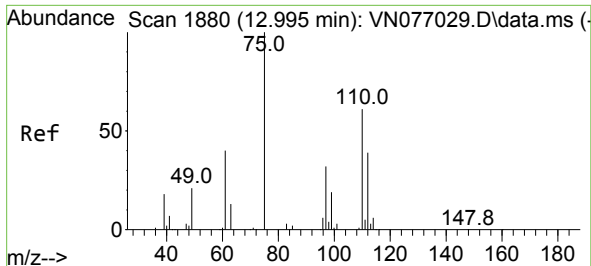
43 100

70 2.9 33.6 50.4#

55 10.0 20.3 30.5#

61 0.0 18.9 28.3#

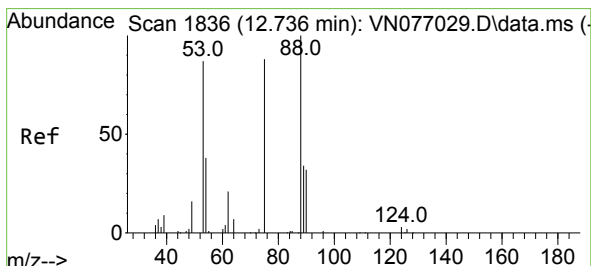
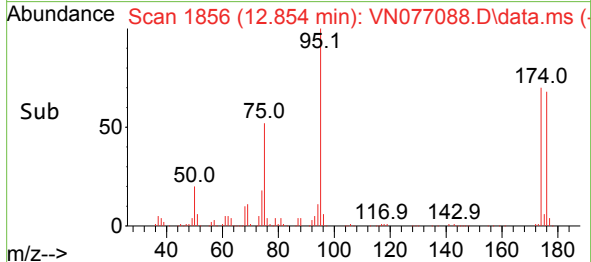
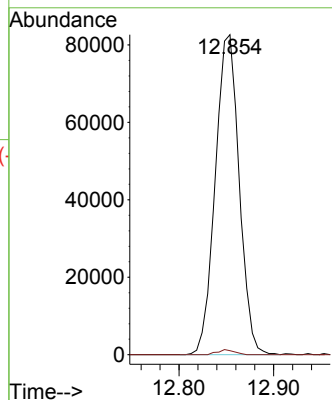
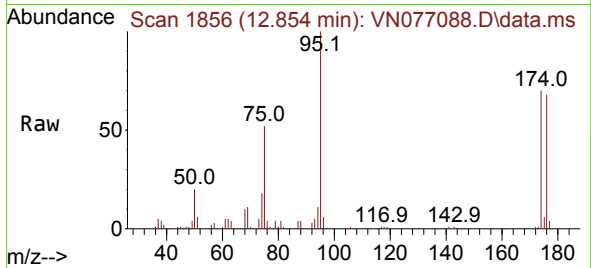




#76
1,2,3-Trichloropropane
Concen: 24.763 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

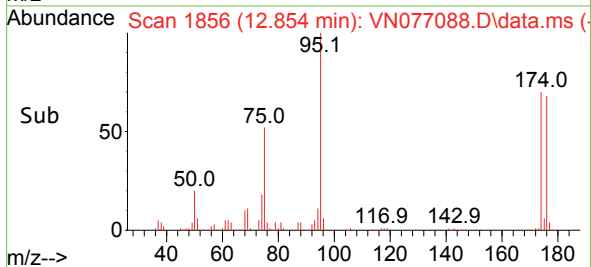
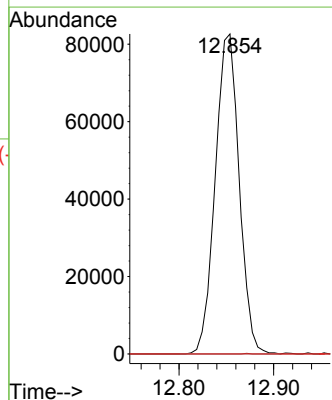
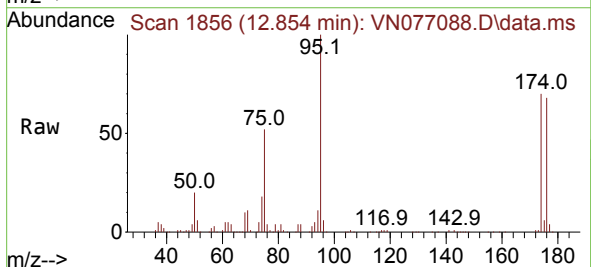
Instrument :
MSVOA_N
ClientSampleId :
IRV-2

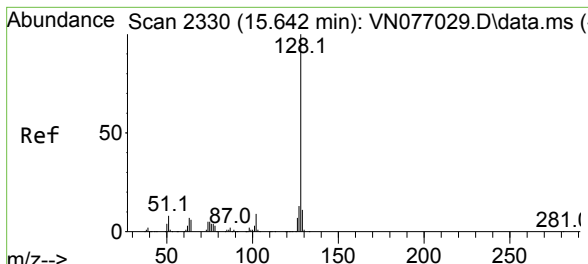
Tgt Ion: 75 Resp: 145099
Ion Ratio Lower Upper
75 100
77 1.1 107.3 322.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.160 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

Tgt Ion: 75 Resp: 145099
Ion Ratio Lower Upper
75 100
53 0.0 80.8 121.2#
89 0.0 34.2 51.4#

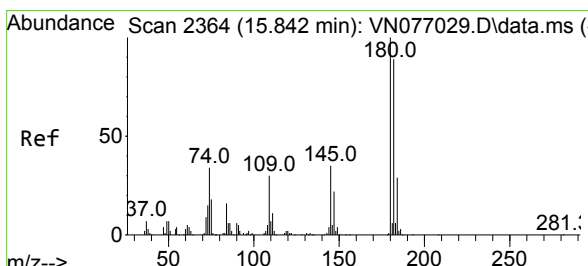
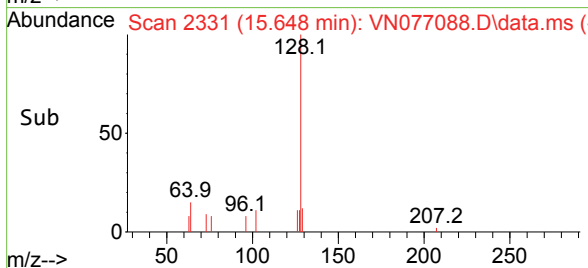
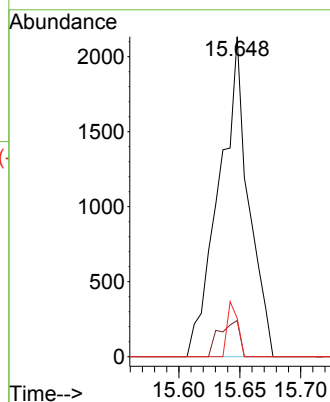
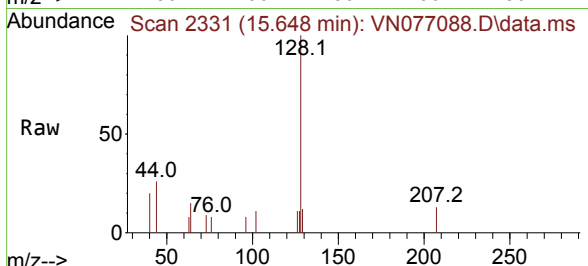




#95
Naphthalene
Concen: 2.141 ug/l
RT: 15.648 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

Instrument : MSVOA_N
ClientSampleId : IRV-2

Tgt Ion:	128	Resp:	3579
Ion Ratio	Lower	Upper	
128	100		
127	7.8	10.0	15.0#
129	6.1	8.6	13.0#



#96
1,2,3-Trichlorobenzene
Concen: 0.313 ug/l
RT: 15.848 min Scan# 2365
Delta R.T. 0.006 min
Lab File: VN077088.D
Acq: 21 Mar 2023 14:16

Tgt Ion:	180	Resp:	1216
Ion Ratio	Lower	Upper	
180	100		
182	66.3	47.4	142.2
145	10.4	17.9	53.8#

