

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
 Data File : VN078520.D
 Acq On : 14 Jul 2023 14:22
 Operator : JC\MD
 Sample : 03599-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-7-11-23

Quant Time: Jul 15 04:01:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

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

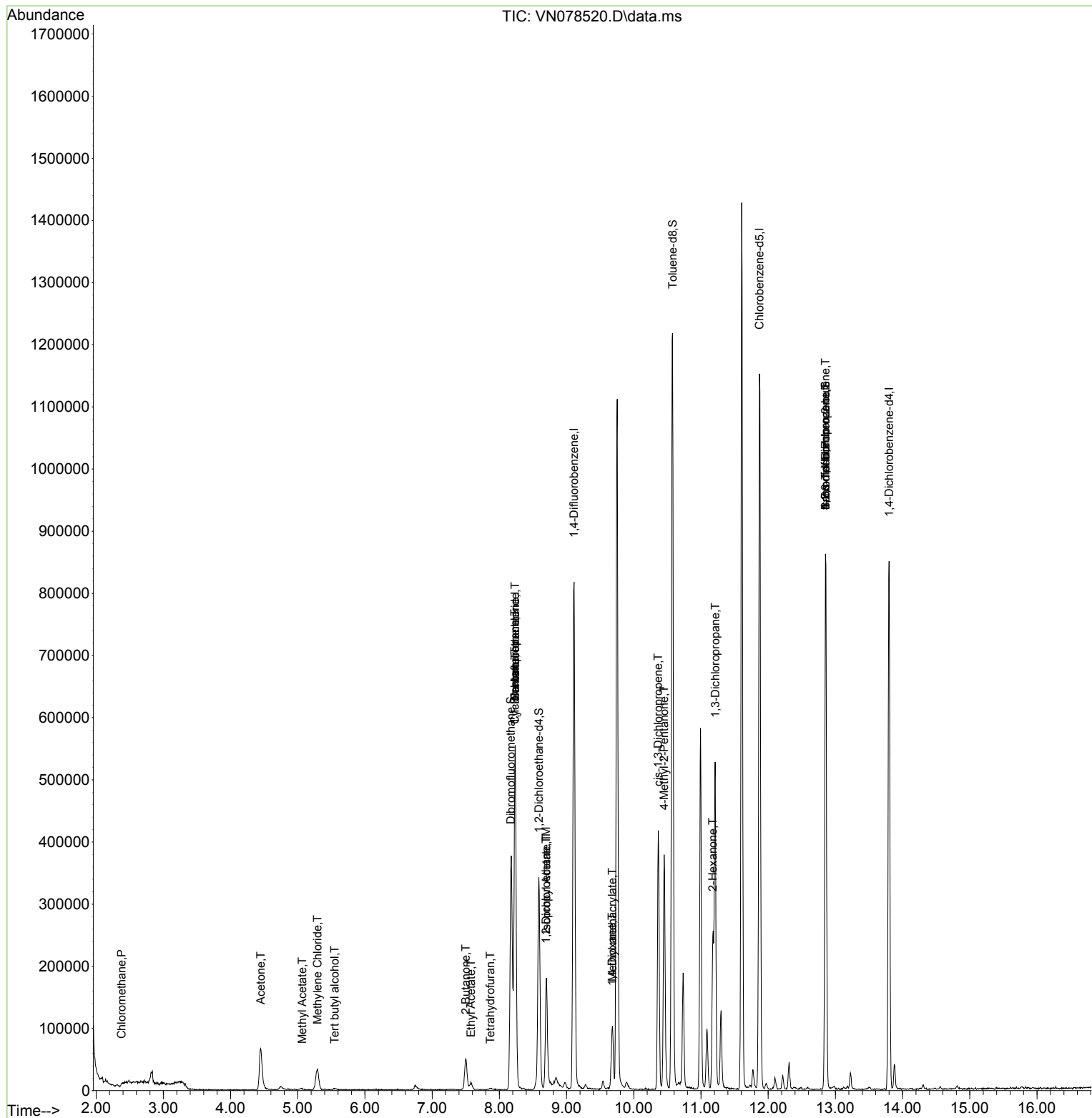
Internal Standards						
1) Pentafluorobenzene	8.235	168	400285	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	735916	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	699569	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	240779	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	273925	51.046	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 102.100%	
35) Dibromofluoromethane	8.171	113	273217	54.691	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 109.380%	
50) Toluene-d8	10.576	98	891568	47.243	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 94.480%	
62) 4-Bromofluorobenzene	12.853	95	298308	51.318	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.640%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1651	0.310	ug/l	94
5) Bromomethane	2.947	94	251	Below Cal	#	48
6) Chloroethane	3.136	64	1787	Below Cal	#	43
11) Tert butyl alcohol	5.547	59	2027	2.450	ug/l #	72
16) Acetone	4.447	43	125226	74.914	ug/l	93
18) Methyl Acetate	5.065	43	3285	0.464	ug/l #	78
20) Methylene Chloride	5.294	84	27816	4.693	ug/l	98
25) 2-Butanone	7.500	43	78212	29.724	ug/l #	83
29) Tetrahydrofuran	7.865	42	1411	0.817	ug/l #	29
31) Cyclohexane	8.229	56	9302	1.283	ug/l #	25
36) 1,1-Dichloropropene	8.229	75	32889	4.560	ug/l #	51
37) Ethyl Acetate	7.577	43	18388	3.058	ug/l #	86
38) Carbon Tetrachloride	8.235	117	41658	5.314	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	2107	0.290	ug/l #	73
43) Isopropyl Acetate	8.700	43	203281	20.534	ug/l #	82
48) Methyl methacrylate	9.682	41	5680	1.238	ug/l #	33
49) 1,4-Dioxane	9.676	88	81	0.810	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	251697	42.744	ug/l	91
54) cis-1,3-Dichloropropene	10.365	75	76956	9.229	ug/l #	67
57) 1,3-Dichloropropane	11.212	76	5426	0.612	ug/l #	42
59) 2-Hexanone	11.176	43	252958	60.444	ug/l #	19
71) Bromoform	12.853	173	2182	0.536	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.929	83	99	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	159806	27.458	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	159806	72.156	ug/l #	15
90) Hexachloroethane	14.329	117	56	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.694	75	83	Below Cal	#	4

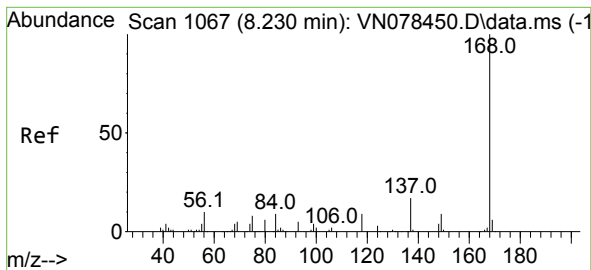
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
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Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN078520.D

Acq: 14 Jul 2023 14:22

Instrument :

MSVOA_N

ClientSampleId :

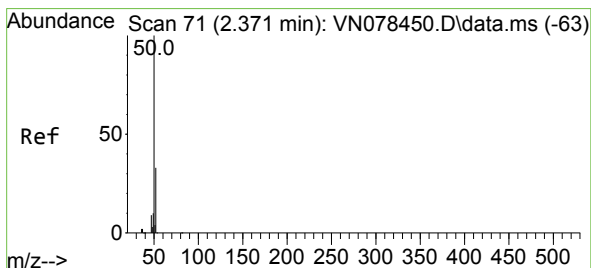
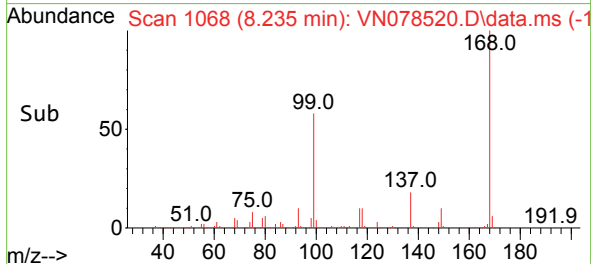
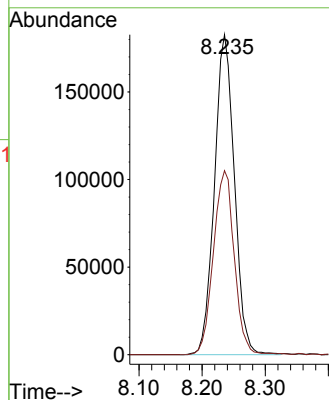
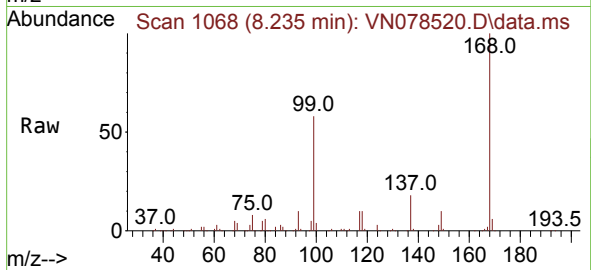
IDW-7-11-23

Tgt Ion:168 Resp: 400285

Ion Ratio Lower Upper

168 100

99 57.5 53.0 79.6



#3

Chloromethane

Concen: 0.310 ug/l

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078520.D

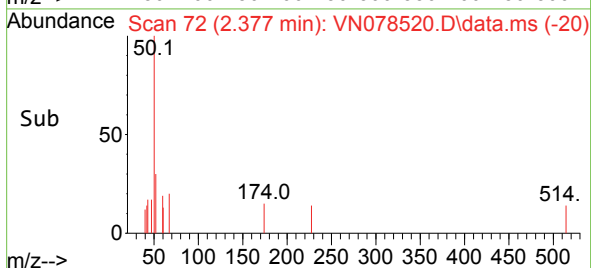
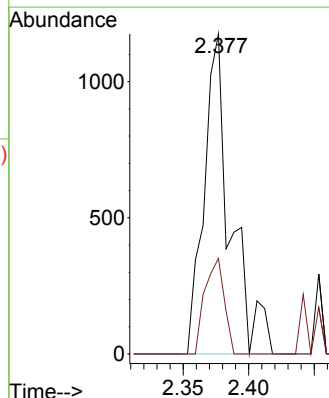
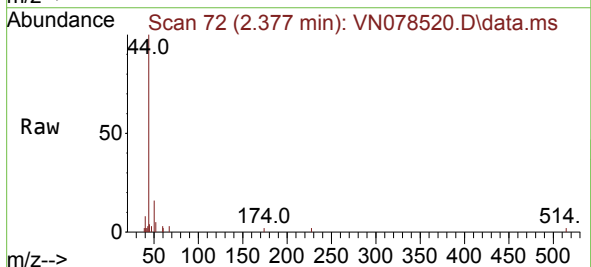
Acq: 14 Jul 2023 14:22

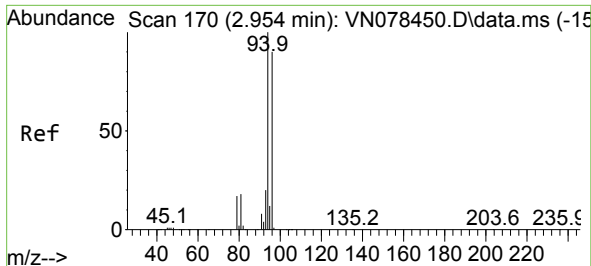
Tgt Ion: 50 Resp: 1651

Ion Ratio Lower Upper

50 100

52 29.9 26.5 39.7

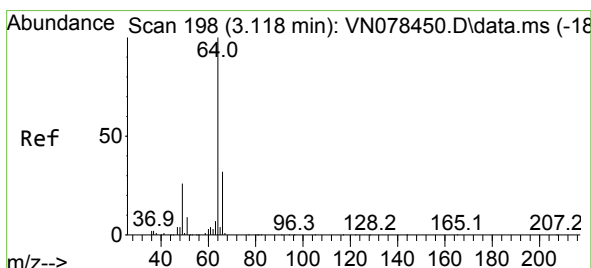
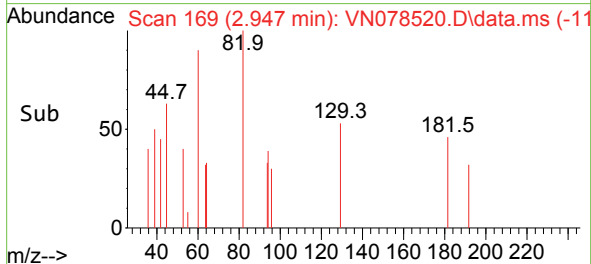
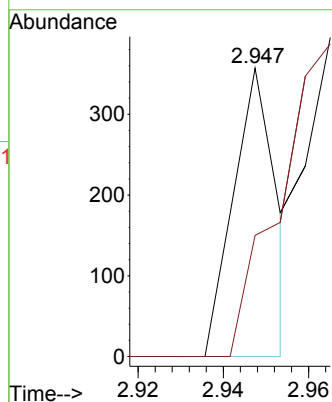
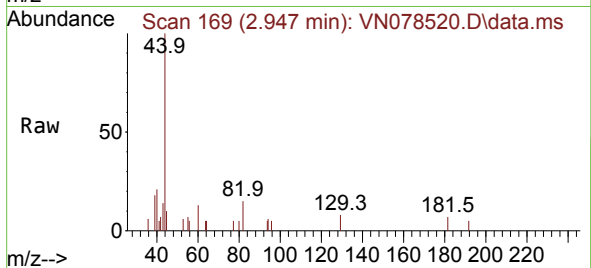




#5
Bromomethane
Concen: Below Cal
RT: 2.947 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

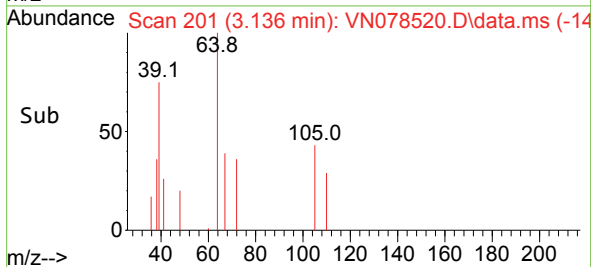
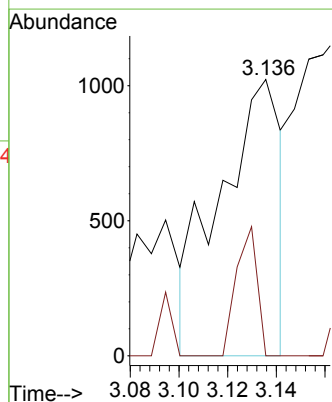
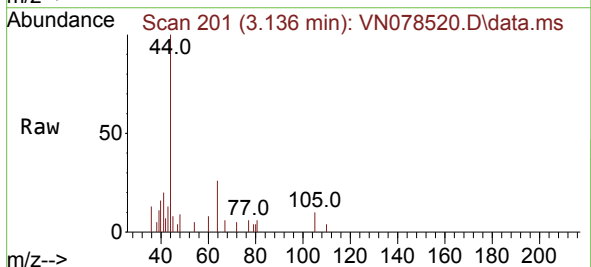
Instrument :
MSVOA_N
ClientSampleId :
IDW-7-11-23

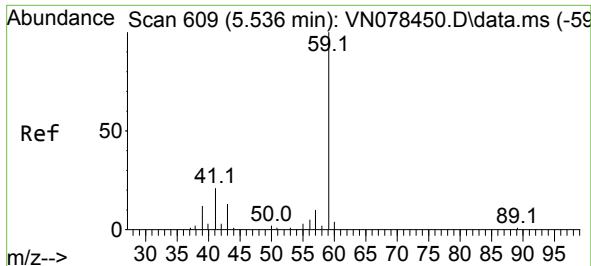
Tgt Ion: 94 Resp: 251
Ion Ratio Lower Upper
94 100
96 42.0 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.136 min Scan# 201
Delta R.T. 0.018 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

Tgt Ion: 64 Resp: 1787
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

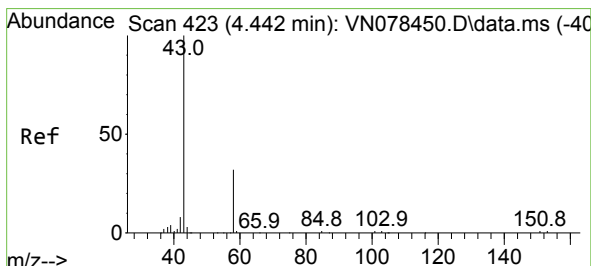
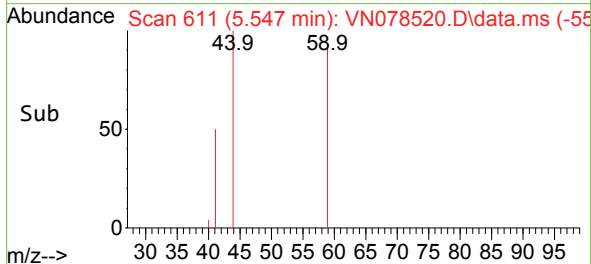
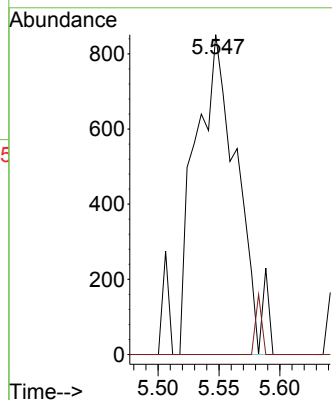
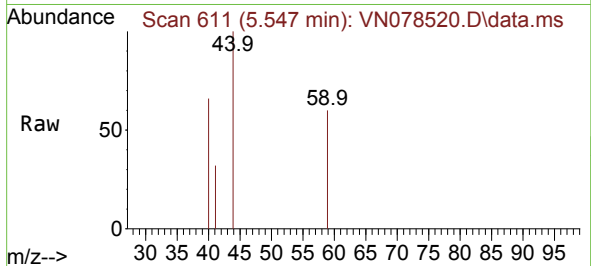




#11
Tert butyl alcohol
Concen: 2.450 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.011 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

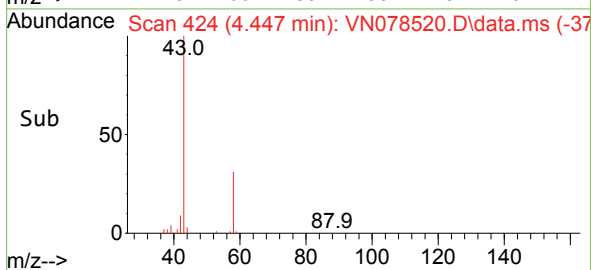
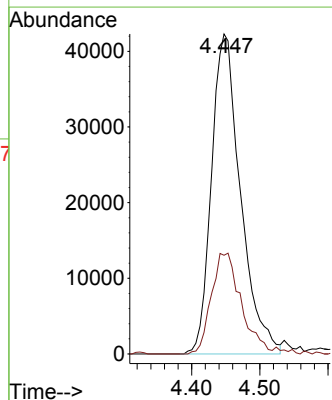
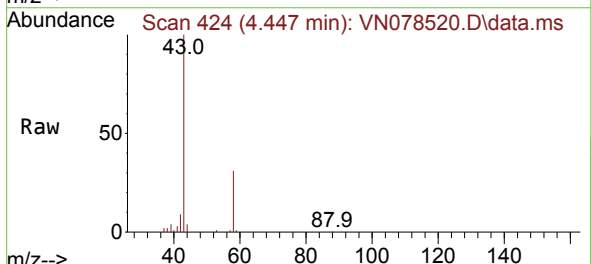
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MSVOA_N
ClientSampleId :
IDW-7-11-23

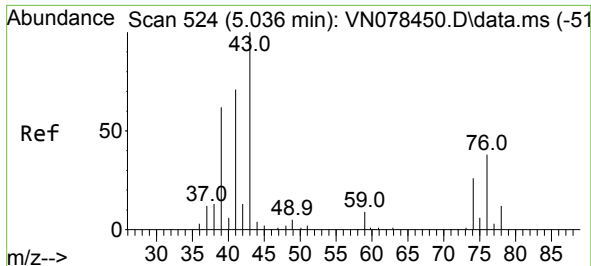
Tgt Ion: 59 Resp: 2027
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 74.914 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.005 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

Tgt Ion: 43 Resp: 125226
Ion Ratio Lower Upper
43 100
58 30.8 28.0 42.0

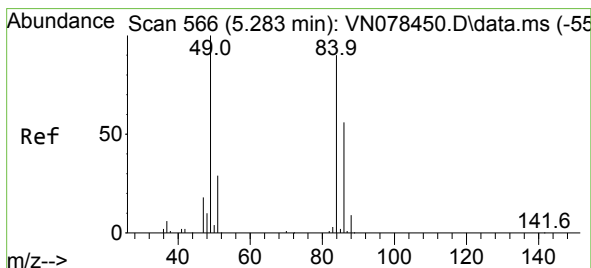
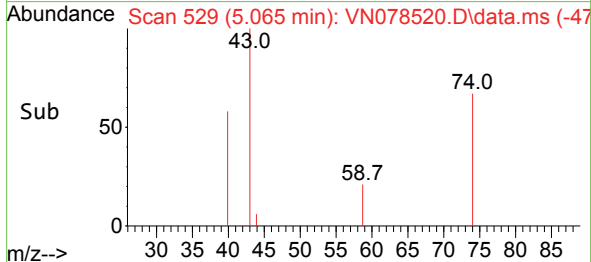
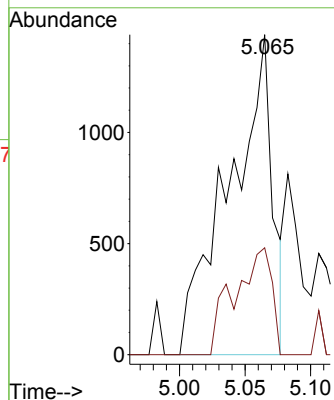
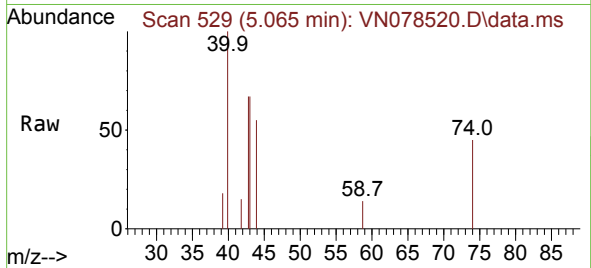




#18
Methyl Acetate
Concen: 0.464 ug/l
RT: 5.065 min Scan# 51
Delta R.T. 0.029 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

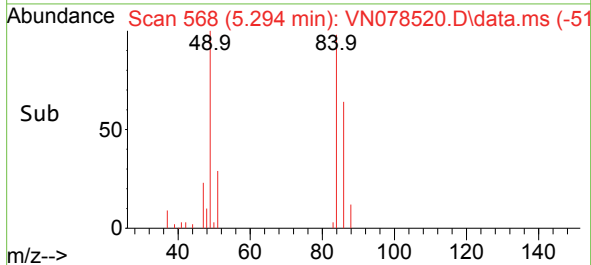
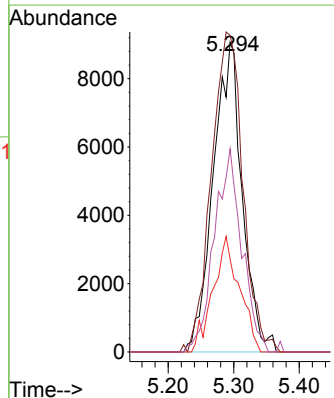
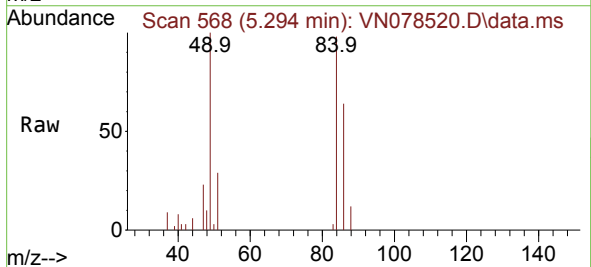
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MSVOA_N
ClientSampleId :
IDW-7-11-23

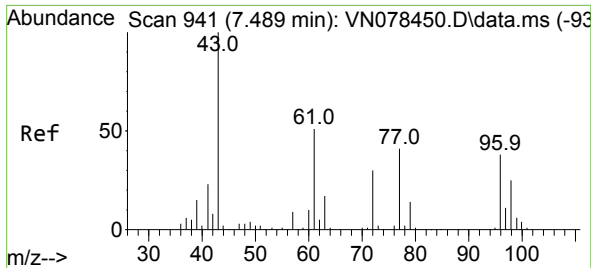
Tgt Ion: 43 Resp: 3285
Ion Ratio Lower Upper
43 100
74 20.5 26.2 39.4#



#20
Methylene Chloride
Concen: 4.693 ug/l
RT: 5.294 min Scan# 568
Delta R.T. 0.011 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

Tgt Ion: 84 Resp: 27816
Ion Ratio Lower Upper
84 100
49 102.2 79.7 119.5
51 30.0 25.2 37.8
86 65.7 53.3 79.9

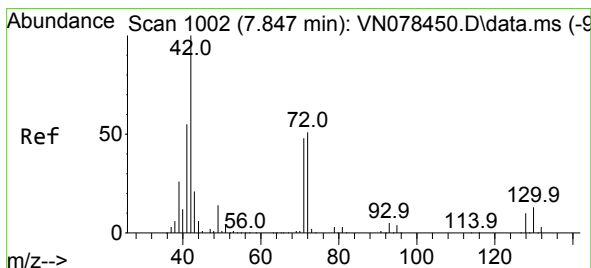
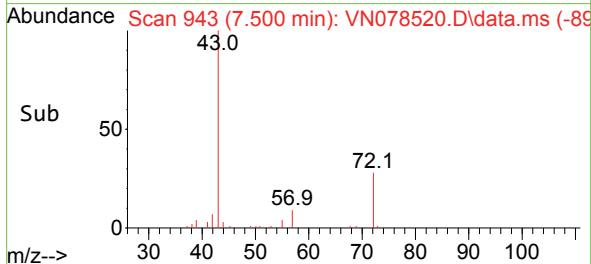
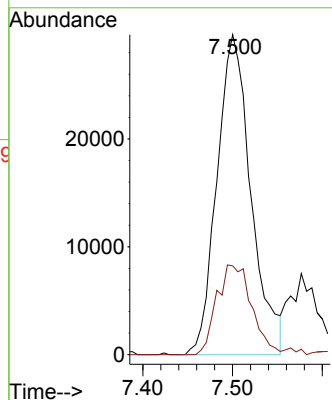
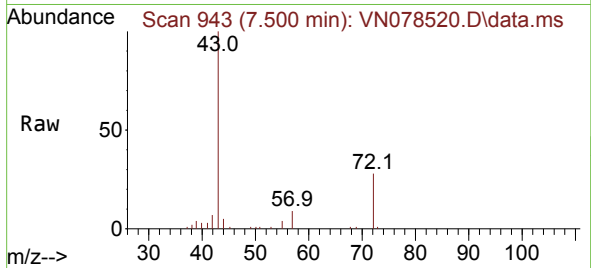




#25
2-Butanone
Concen: 29.724 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.011 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

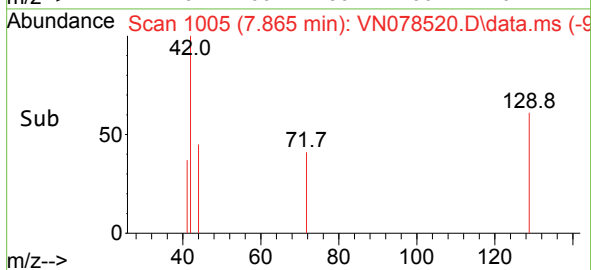
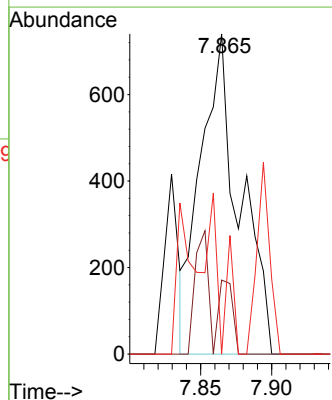
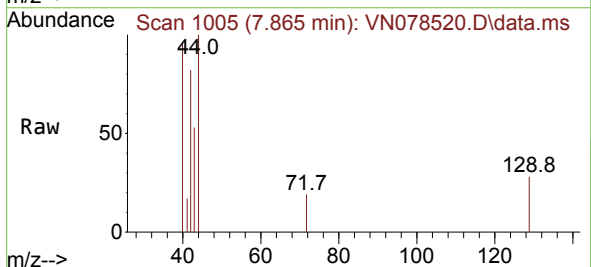
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MSVOA_N
ClientSampleId :
IDW-7-11-23

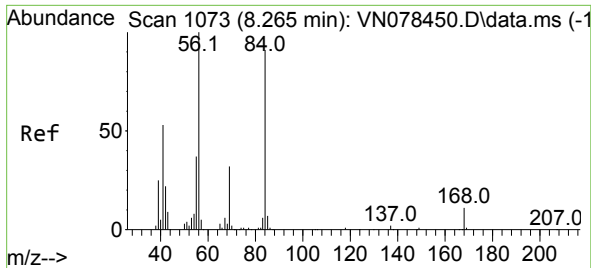
Tgt Ion: 43 Resp: 78212
Ion Ratio Lower Upper
43 100
72 27.8 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.817 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.018 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

Tgt Ion: 42 Resp: 1411
Ion Ratio Lower Upper
42 100
72 13.0 49.8 74.6#
71 0.0 47.4 71.2#

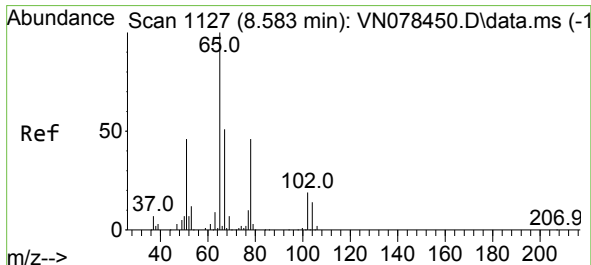
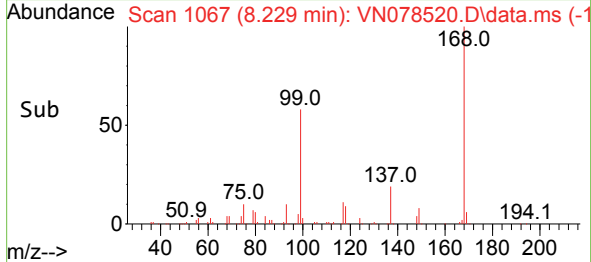
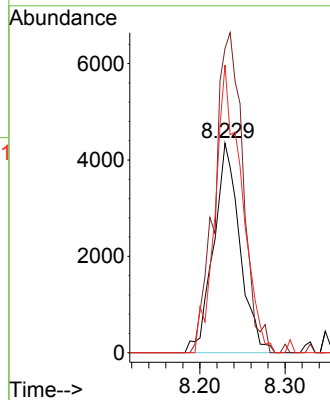
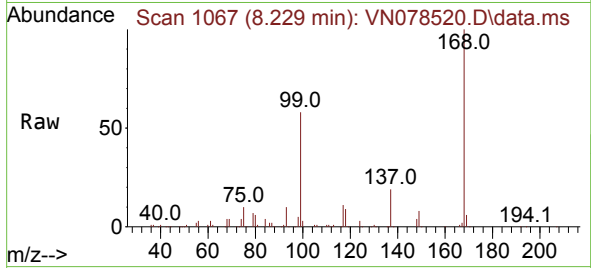




#31
Cyclohexane
Concen: 1.283 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.036 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

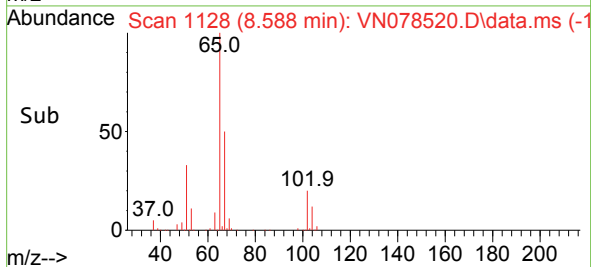
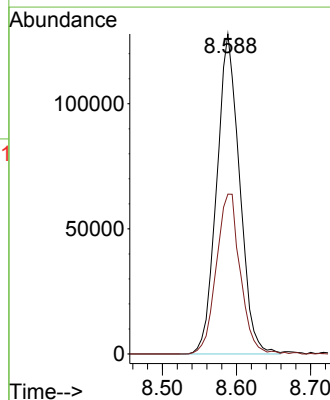
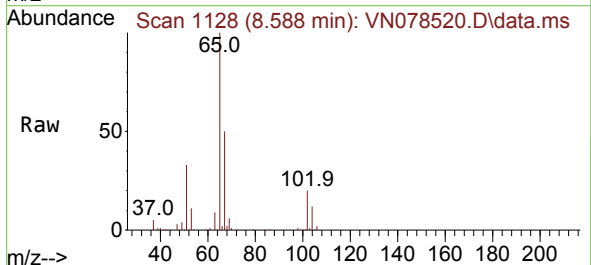
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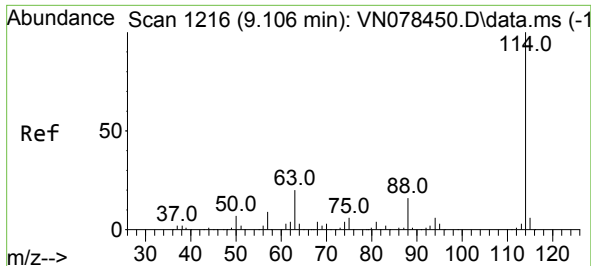
Tgt Ion: 56 Resp: 9302
Ion Ratio Lower Upper
56 100
69 145.2 26.8 40.2#
84 137.4 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 51.046 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

Tgt Ion: 65 Resp: 273925
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.6

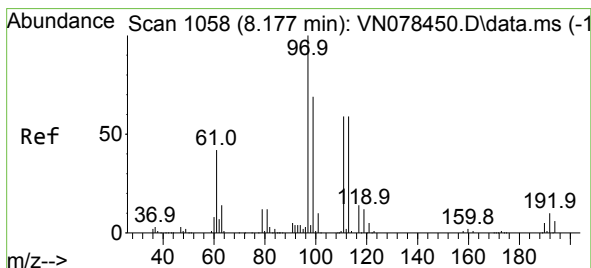
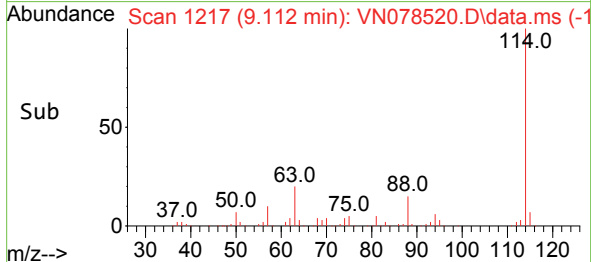
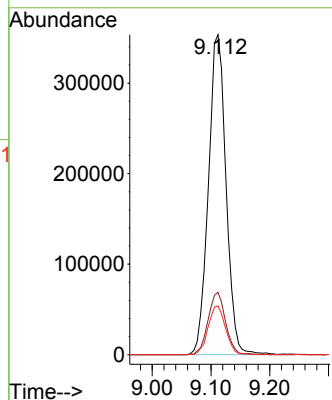
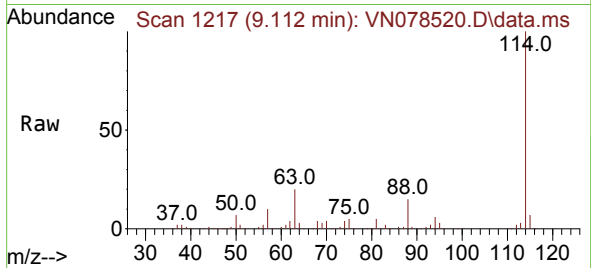




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

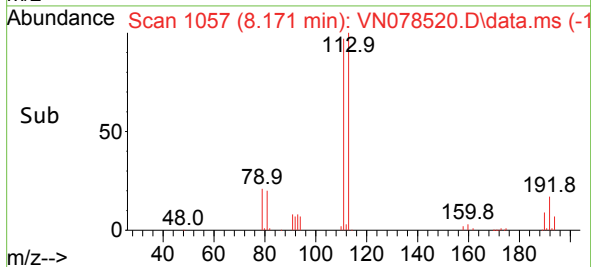
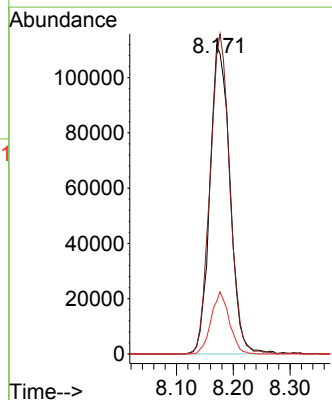
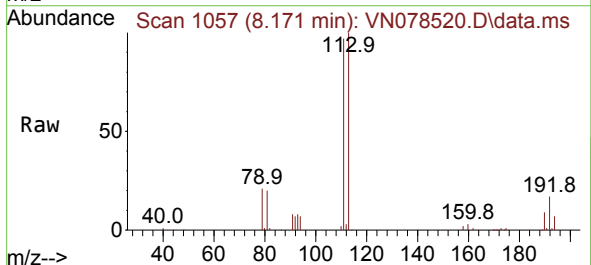
Instrument :
MSVOA_N
ClientSampleId :
IDW-7-11-23

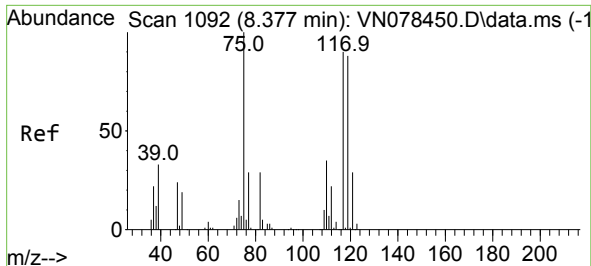
Tgt Ion:114 Resp: 735916
Ion Ratio Lower Upper
114 100
63 19.5 0.0 36.4
88 15.3 0.0 30.6



#35
Dibromofluoromethane
Concen: 54.691 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

Tgt Ion:113 Resp: 273217
Ion Ratio Lower Upper
113 100
111 102.3 82.6 123.8
192 18.3 12.7 19.1

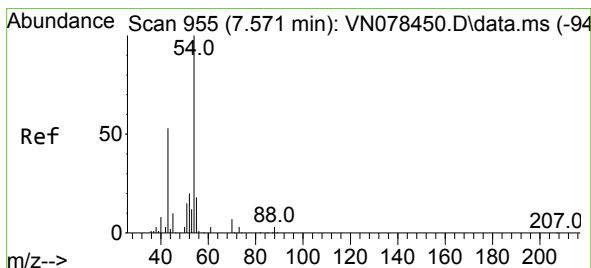
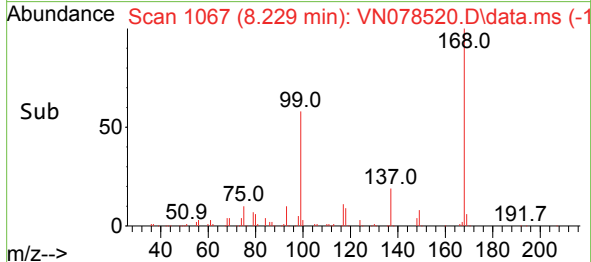
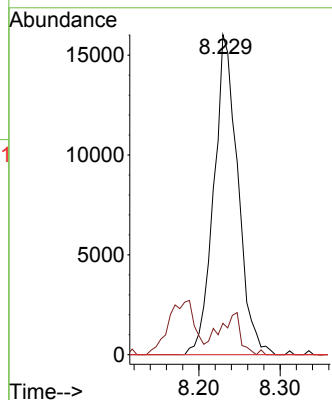
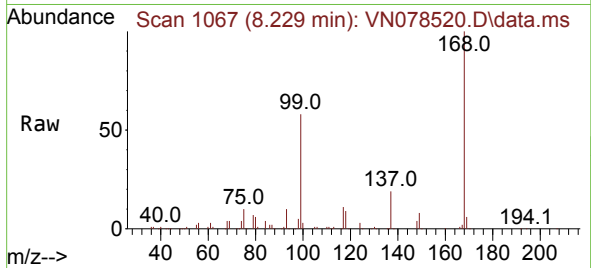




#36
1,1-Dichloropropene
Concen: 4.560 ug/l
RT: 8.229 min Scan# 1092
Delta R.T. -0.148 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

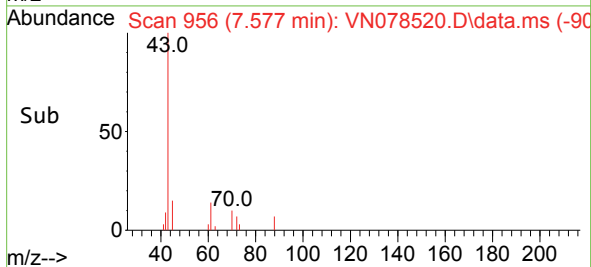
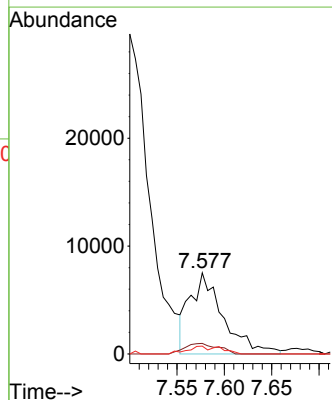
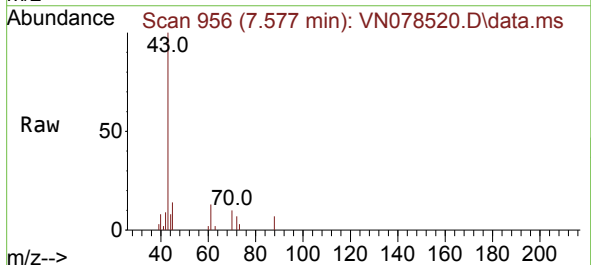
Instrument :
MSVOA_N
ClientSampleId :
IDW-7-11-23

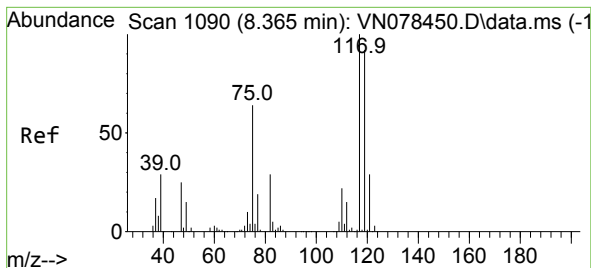
Tgt Ion: 75 Resp: 32889
Ion Ratio Lower Upper
75 100
110 11.8 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 3.058 ug/l
RT: 7.577 min Scan# 956
Delta R.T. 0.006 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

Tgt Ion: 43 Resp: 18388
Ion Ratio Lower Upper
43 100
61 13.0 13.2 19.8#
70 5.6 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.314 ug/l

RT: 8.235 min Scan# 1

Delta R.T. -0.130 min

Lab File: VN078520.D

Acq: 14 Jul 2023 14:22

Instrument :

MSVOA_N

ClientSampleId :

IDW-7-11-23

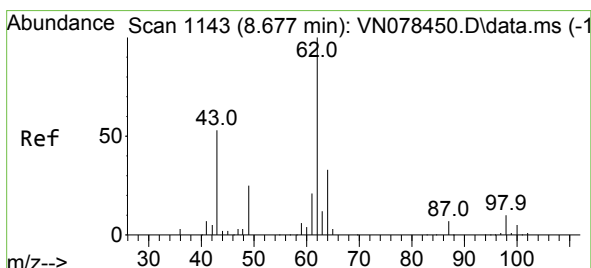
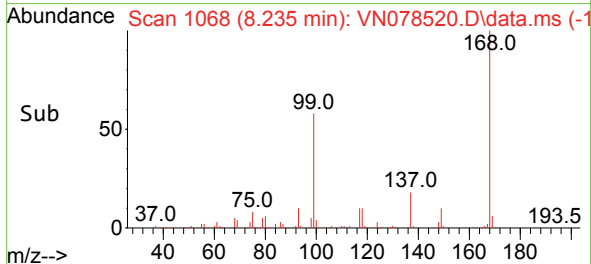
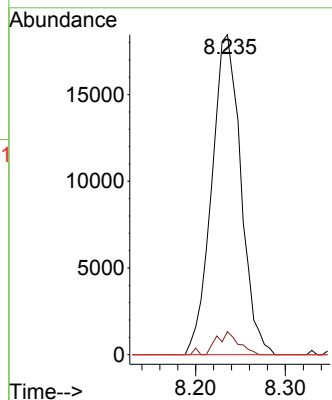
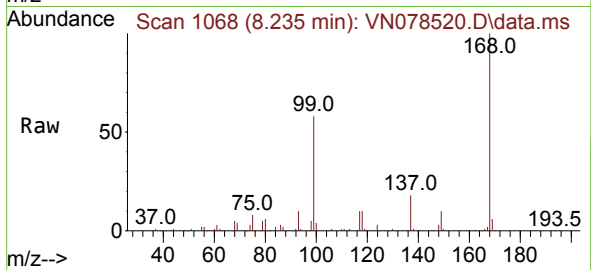
Tgt Ion:117 Resp: 41658

Ion Ratio Lower Upper

117 100

119 7.2 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.290 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.017 min

Lab File: VN078520.D

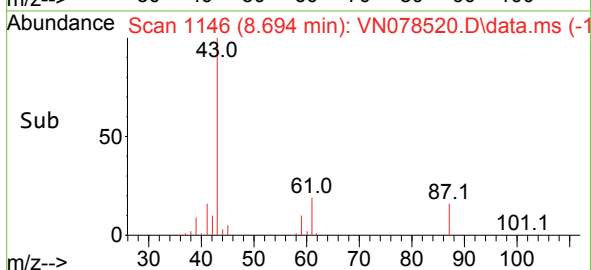
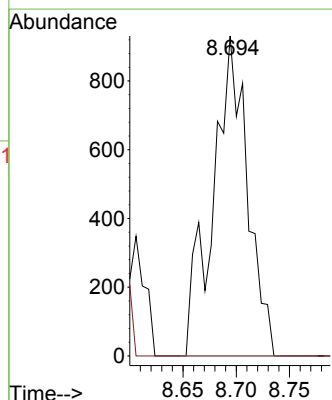
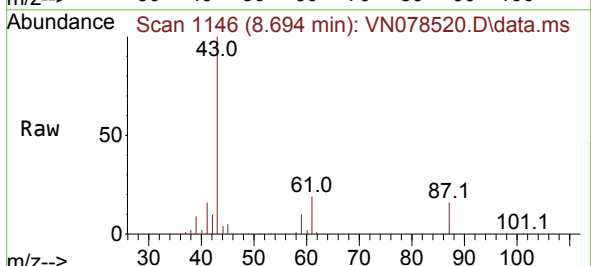
Acq: 14 Jul 2023 14:22

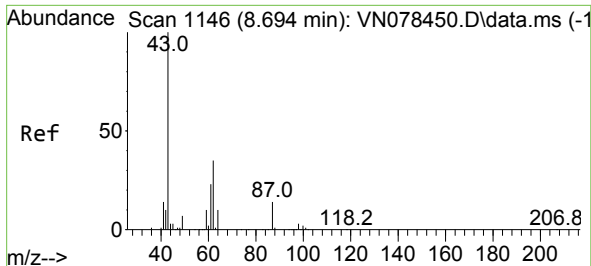
Tgt Ion: 62 Resp: 2107

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

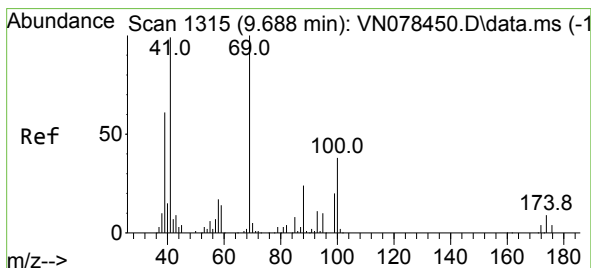
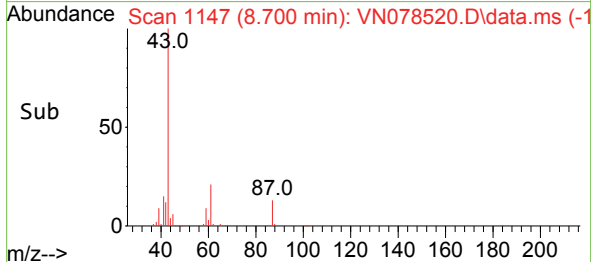
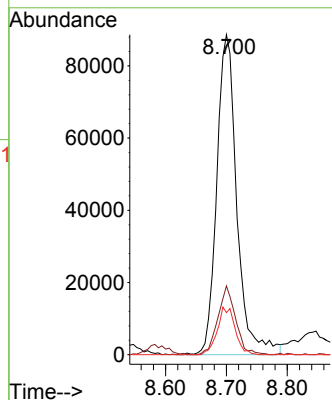
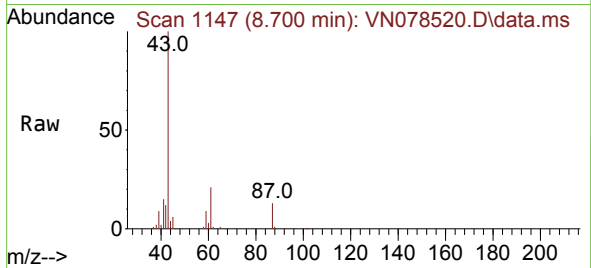




#43
Isopropyl Acetate
Concen: 20.534 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

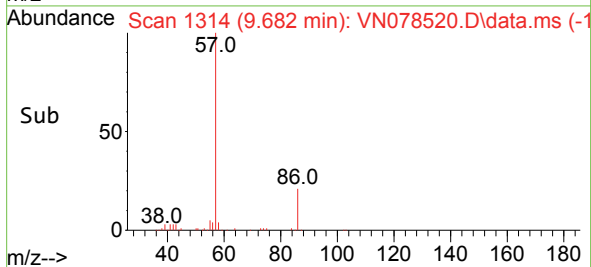
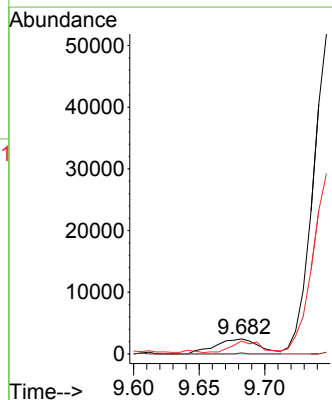
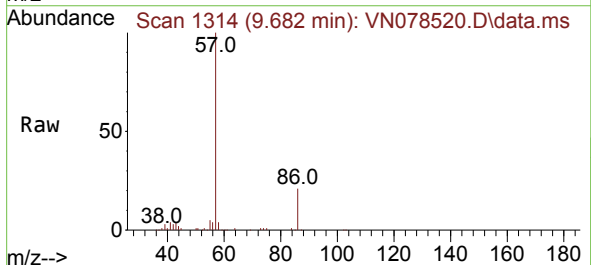
Instrument :
MSVOA_N
ClientSampleId :
IDW-7-11-23

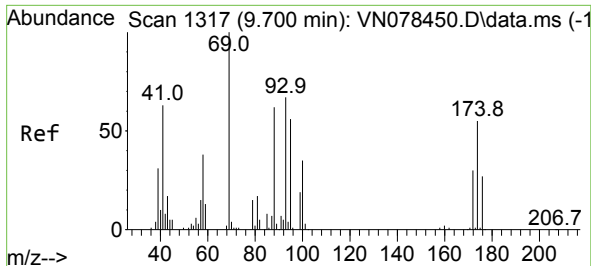
Tgt Ion: 43 Resp: 203281
Ion Ratio Lower Upper
43 100
61 19.0 24.7 37.1#
87 13.2 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.238 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

Tgt Ion: 41 Resp: 5680
Ion Ratio Lower Upper
41 100
69 1.2 90.4 135.6#
39 63.6 54.6 81.8





#49

1,4-Dioxane

Concen: 0.810 ug/l

RT: 9.676 min Scan# 11

Delta R.T. -0.024 min

Lab File: VN078520.D

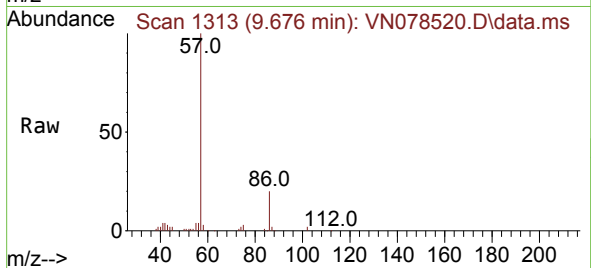
Acq: 14 Jul 2023 14:22

Instrument :

MSVOA_N

ClientSampleId :

IDW-7-11-23



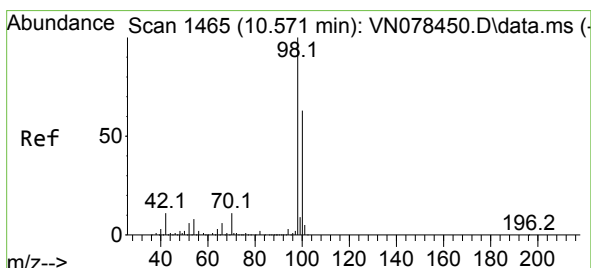
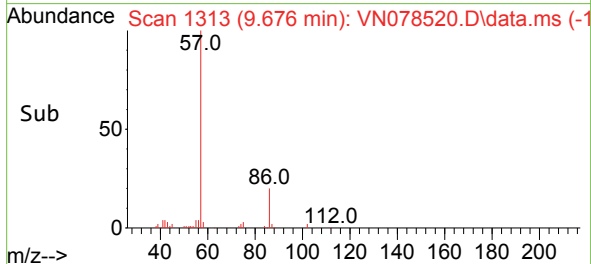
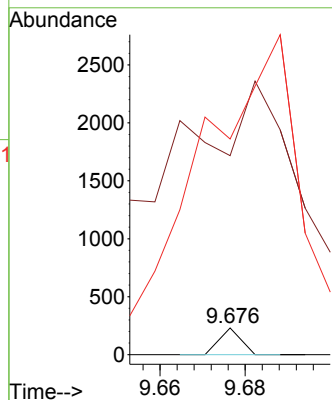
Tgt Ion: 88 Resp: 81

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 5791.4 47.0 70.4#



#50

Toluene-d8

Concen: 47.243 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. 0.005 min

Lab File: VN078520.D

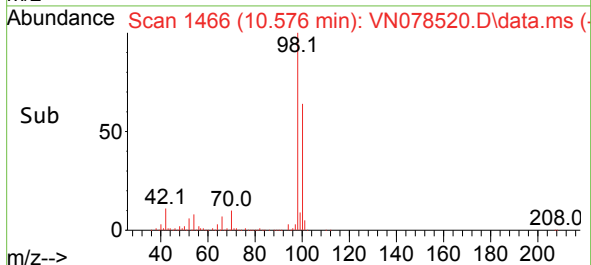
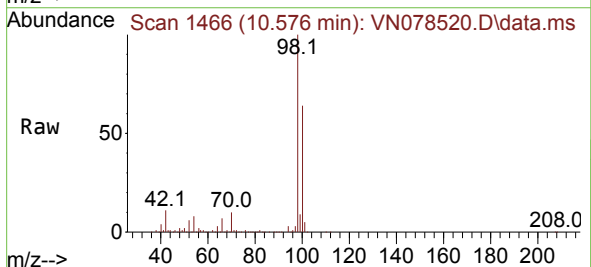
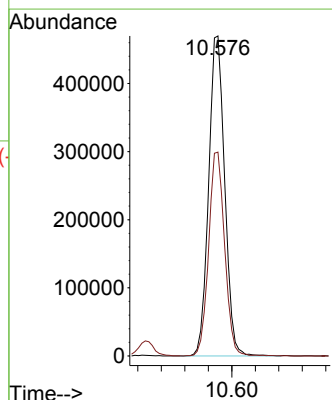
Acq: 14 Jul 2023 14:22

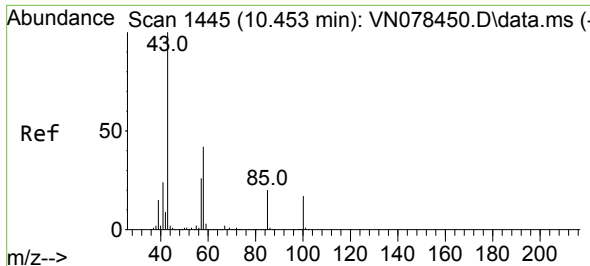
Tgt Ion: 98 Resp: 891568

Ion Ratio Lower Upper

98 100

100 63.5 52.0 78.0

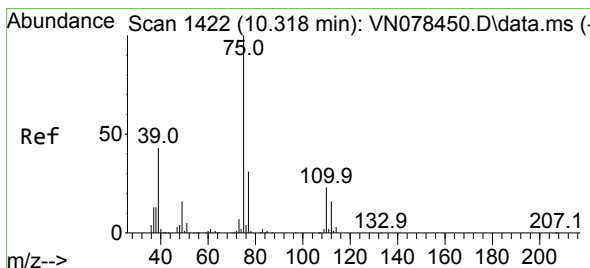
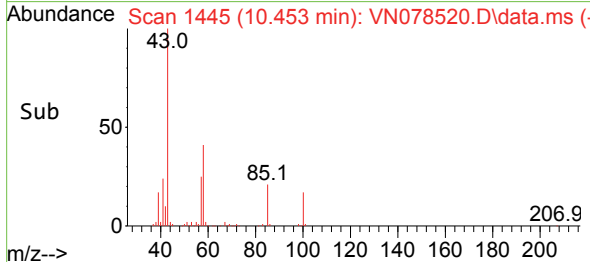
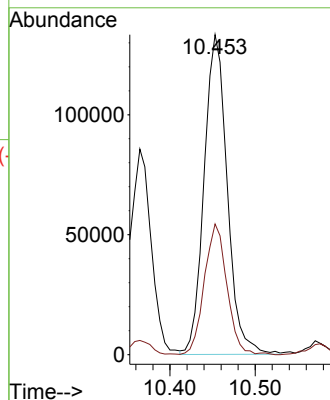
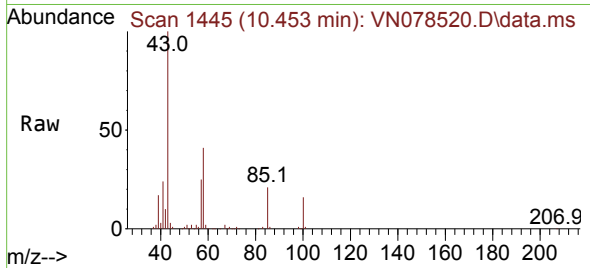




#51
4-Methyl-2-Pentanone
Concen: 42.744 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

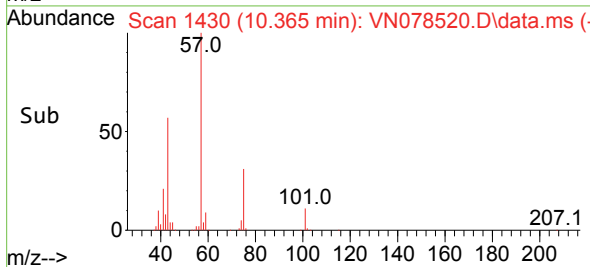
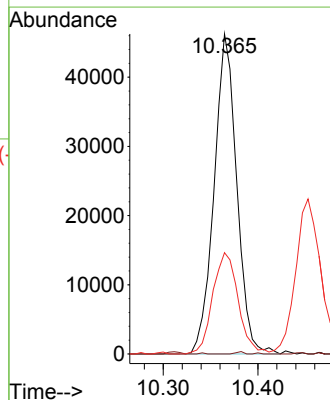
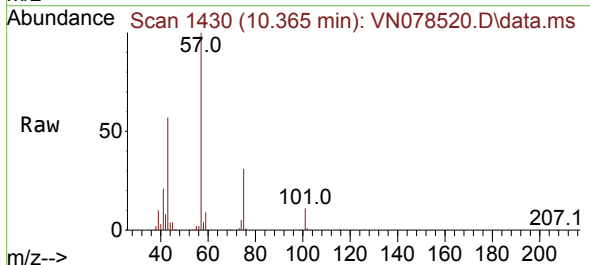
Instrument :
MSVOA_N
ClientSampleId :
IDW-7-11-23

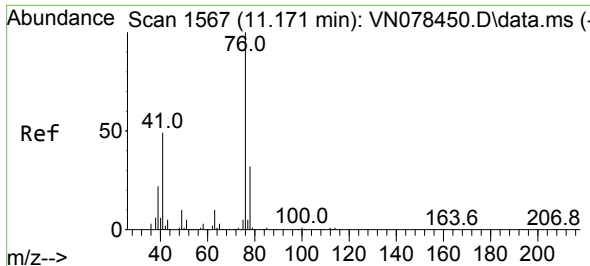
Tgt Ion: 43 Resp: 251697
Ion Ratio Lower Upper
43 100
58 39.9 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 9.229 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

Tgt Ion: 75 Resp: 76956
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 31.6 31.6 47.4

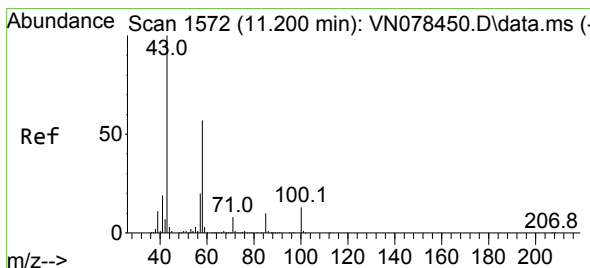
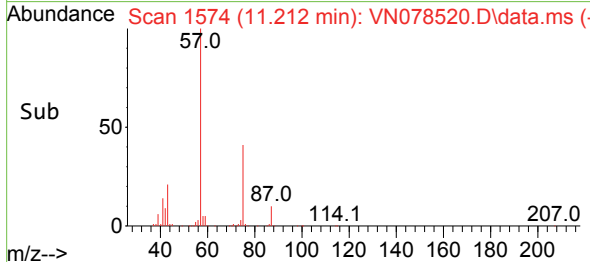
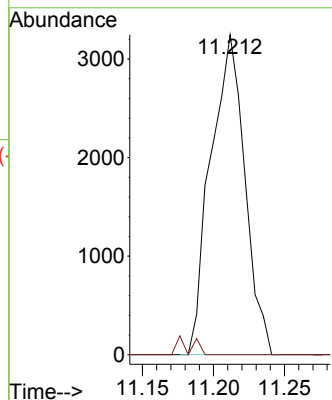
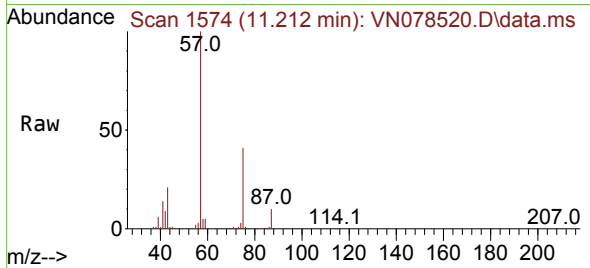




#57
1,3-Dichloropropane
Concen: 0.612 ug/l
RT: 11.212 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

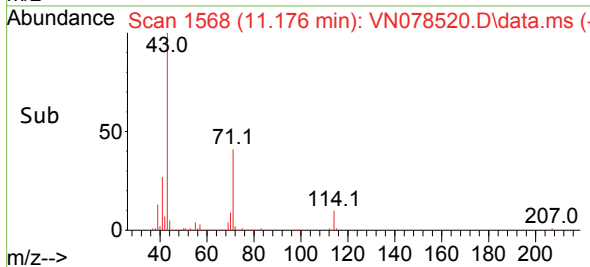
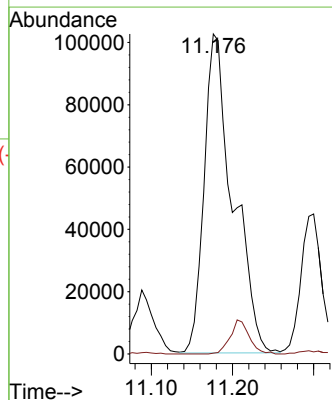
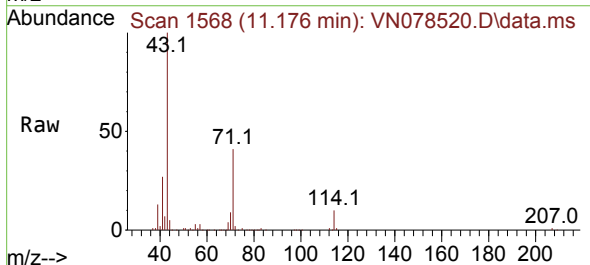
Instrument :
MSVOA_N
ClientSampleId :
IDW-7-11-23

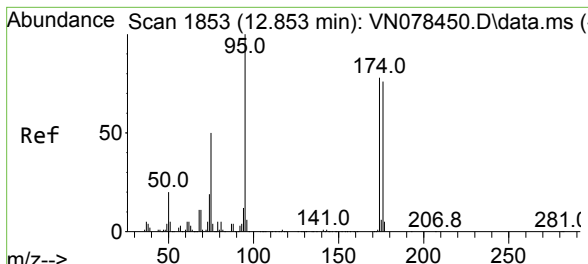
Tgt Ion: 76 Resp: 5426
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 60.444 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.024 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

Tgt Ion: 43 Resp: 252958
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

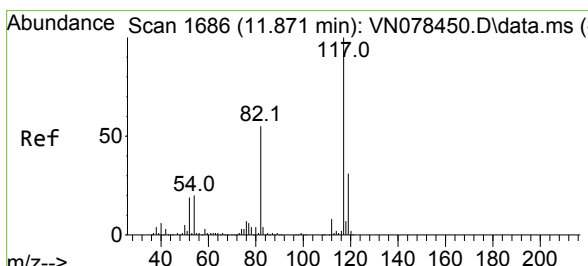
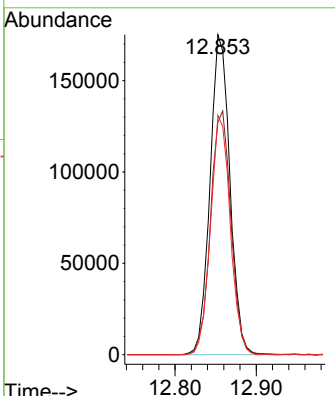
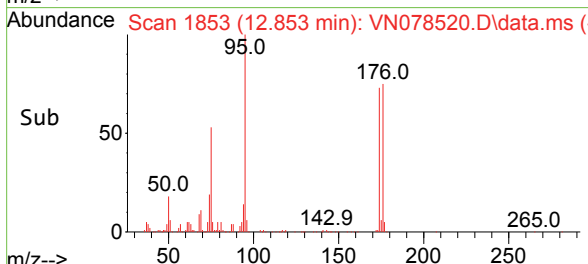
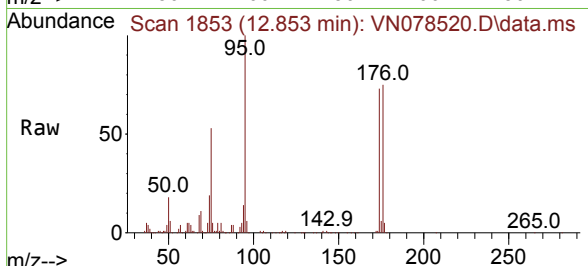




#62
 4-Bromofluorobenzene
 Concen: 51.318 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078520.D
 Acq: 14 Jul 2023 14:22

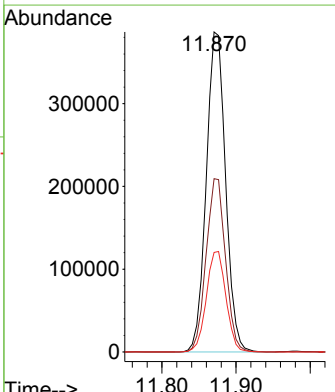
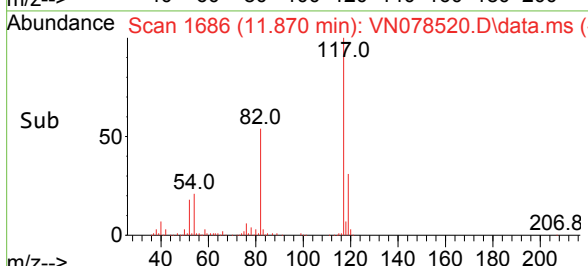
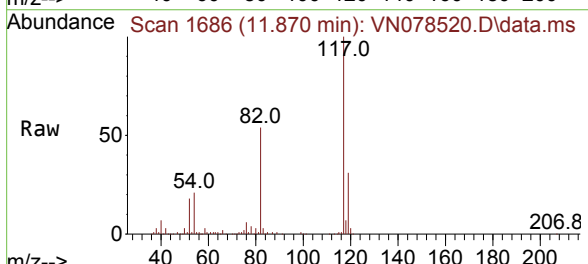
Instrument : MSVOA_N
 ClientSampleId : IDW-7-11-23

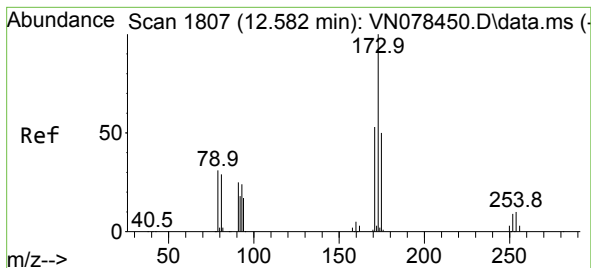
Tgt Ion:	95	Resp:	298308
Ion Ratio	Lower	Upper	
95	100		
174	78.5	0.0	143.8
176	74.1	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.870 min Scan# 1686
 Delta R.T. -0.001 min
 Lab File: VN078520.D
 Acq: 14 Jul 2023 14:22

Tgt Ion:	117	Resp:	699569
Ion Ratio	Lower	Upper	
117	100		
82	54.1	44.0	66.0
119	31.1	25.6	38.4





#71

Bromoform

Concen: 0.536 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

Lab File: VN078520.D

Acq: 14 Jul 2023 14:22

Instrument :

MSVOA_N

ClientSampleId :

IDW-7-11-23

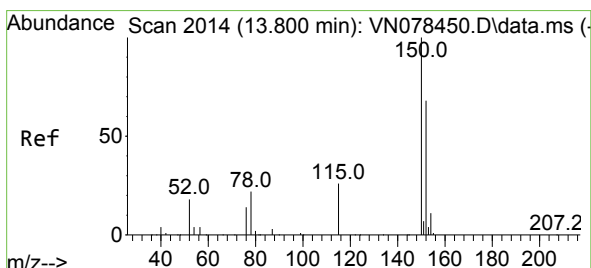
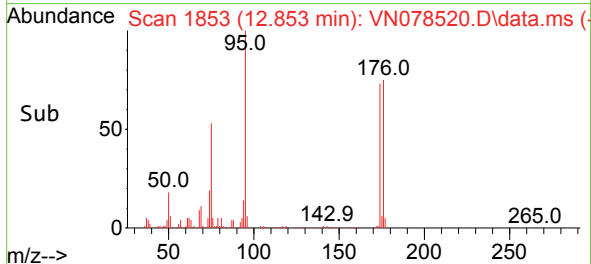
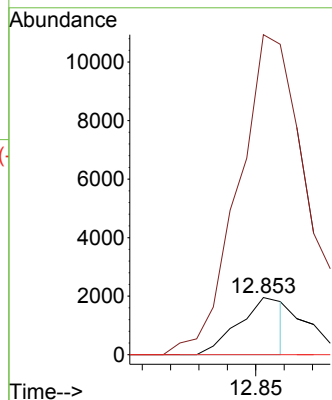
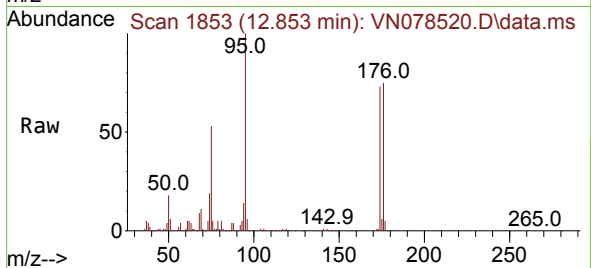
Tgt Ion:173 Resp: 2182

Ion Ratio Lower Upper

173 100

175 578.6 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078520.D

Acq: 14 Jul 2023 14:22

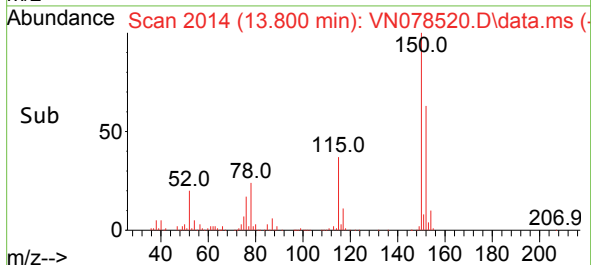
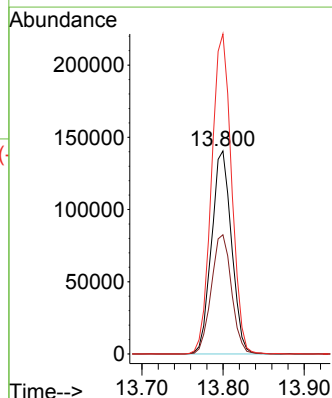
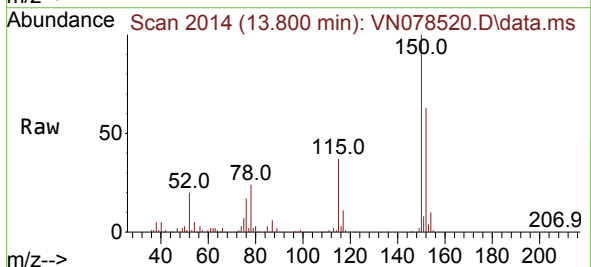
Tgt Ion:152 Resp: 240779

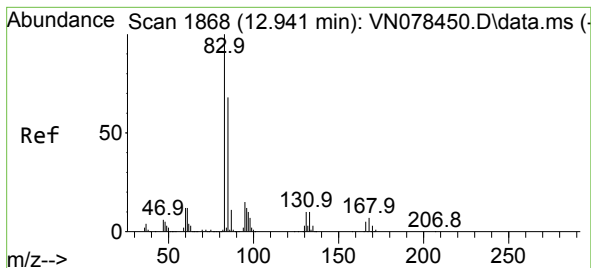
Ion Ratio Lower Upper

152 100

115 59.4 32.3 96.8

150 157.4 0.0 355.8





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.929 min Scan# 1866

Delta R.T. -0.012 min

Lab File: VN078520.D

Acq: 14 Jul 2023 14:22

Instrument :

MSVOA_N

ClientSampleId :

IDW-7-11-23

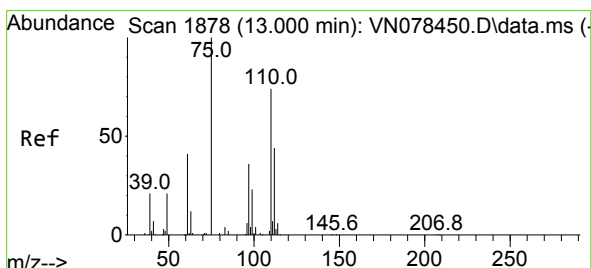
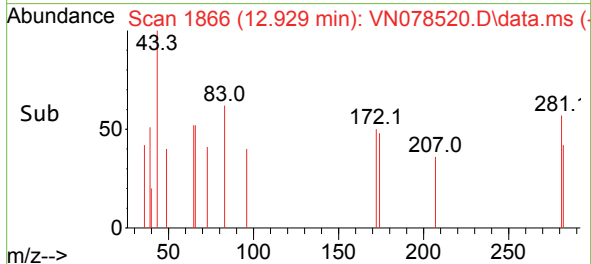
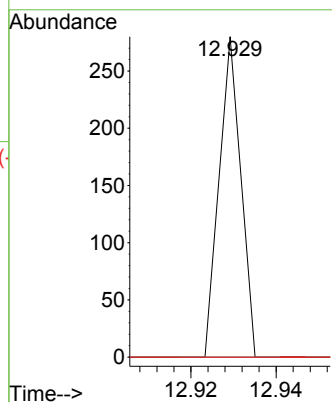
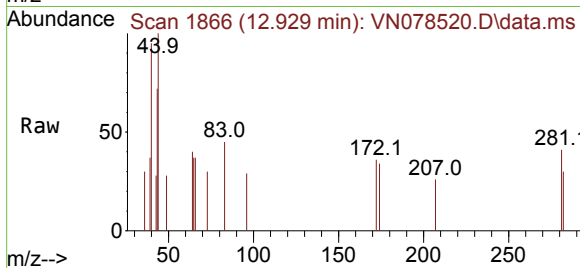
Tgt Ion: 83 Resp: 99

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 27.458 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078520.D

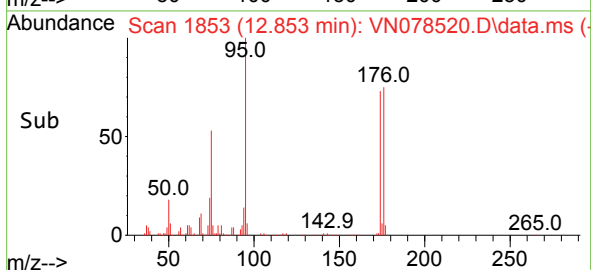
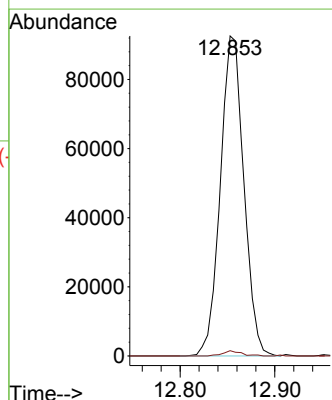
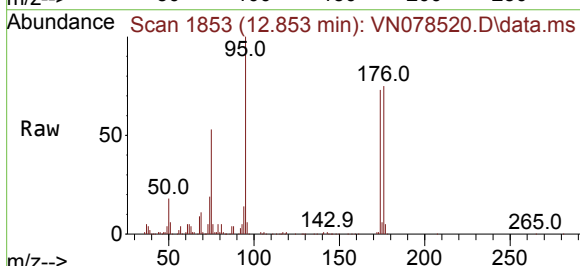
Acq: 14 Jul 2023 14:22

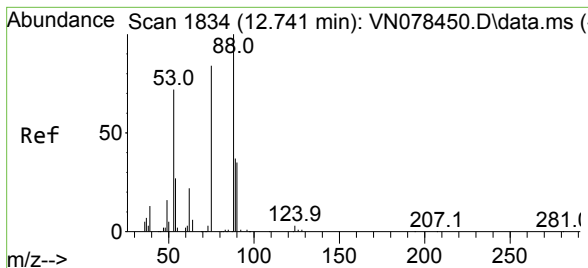
Tgt Ion: 75 Resp: 159806

Ion Ratio Lower Upper

75 100

77 1.3 84.5 253.5#

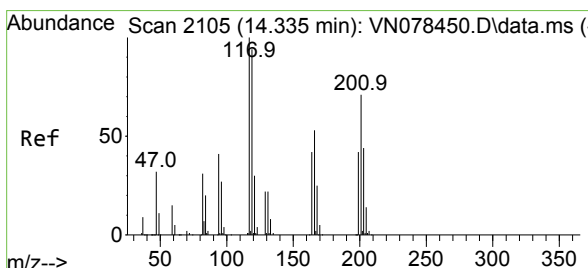
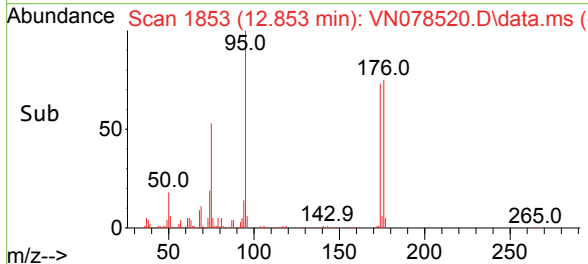
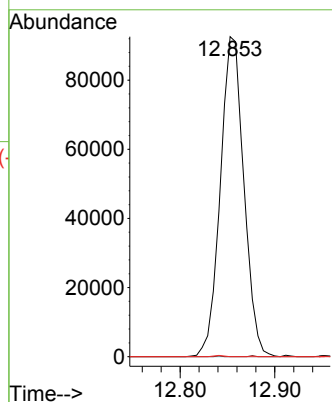
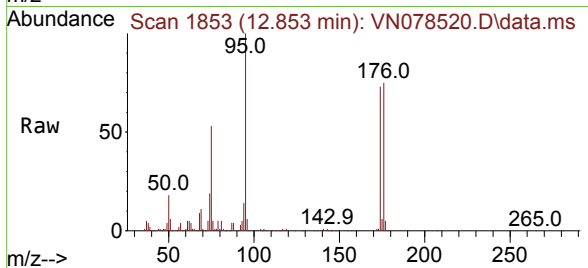




#81
trans-1,4-Dichloro-2-butene
Concen: 72.156 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

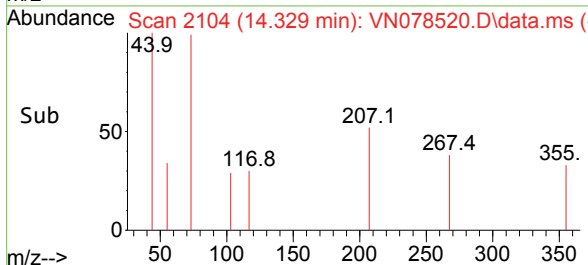
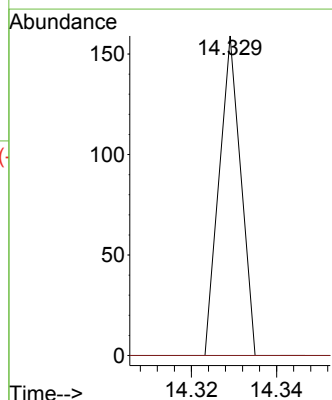
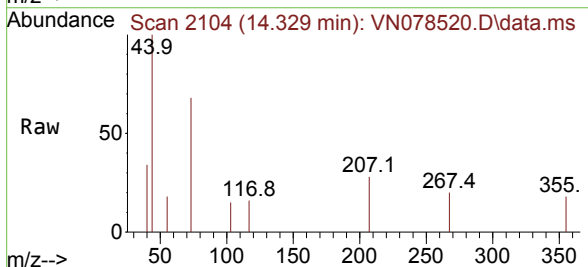
Instrument :
MSVOA_N
ClientSampleId :
IDW-7-11-23

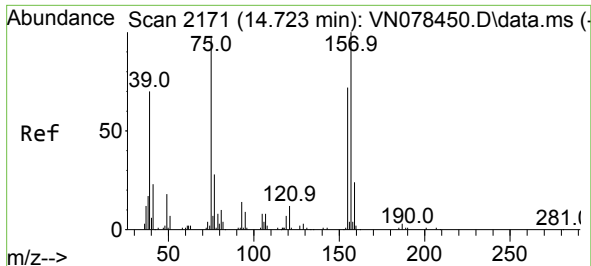
Tgt Ion: 75 Resp: 159806
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.2 38.8 58.2#



#90
Hexachloroethane
Concen: Below Cal
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN078520.D
Acq: 14 Jul 2023 14:22

Tgt Ion: 117 Resp: 56
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.694 min Scan# 21
 Delta R.T. -0.029 min
 Lab File: VN078520.D
 Acq: 14 Jul 2023 14:22

Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-7-11-23

Tgt Ion: 75 Resp: 83
 Ion Ratio Lower Upper
 75 100
 155 0.0 39.1 117.2#
 157 0.0 50.3 150.9#

