

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103023\
 Data File : VN079731.D
 Acq On : 30 Oct 2023 18:42
 Operator : JC\MD
 Sample : 05136-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 31 07:33:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103023W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 31 07:23:24 2023
 Response via : Initial Calibration

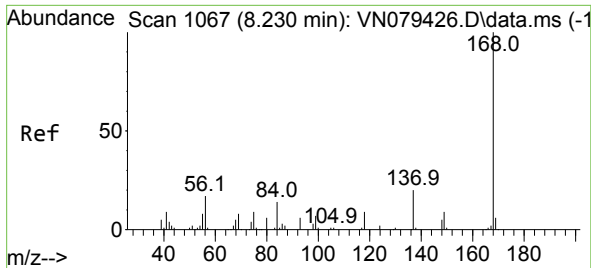
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	254683	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	474619	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	433545	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	112388	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	229582	56.133	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.260%			
35) Dibromofluoromethane	8.171	113	171938	50.698	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.400%			
50) Toluene-d8	10.571	98	641564	50.746	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.500%			
62) 4-Bromofluorobenzene	12.853	95	162251	40.753	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 81.500%#			
Target Compounds						Qvalue
5) Bromomethane	2.959	94	600	0.208	ug/l #	53
11) Tert butyl alcohol	5.518	59	751	1.384	ug/l #	72
16) Acetone	4.436	43	64085	36.624	ug/l	91
18) Methyl Acetate	5.036	43	3043	0.431	ug/l #	51
20) Methylene Chloride	5.289	84	15244	4.399	ug/l	95
25) 2-Butanone	7.500	43	6712	2.793	ug/l	95
31) Cyclohexane	8.230	56	7003	1.255	ug/l #	43
36) 1,1-Dichloropropene	8.230	75	22712	4.514	ug/l #	46
37) Ethyl Acetate	7.571	43	4871	0.977	ug/l #	83
38) Carbon Tetrachloride	8.230	117	28163	5.613	ug/l #	17
42) 1,2-Dichloroethane	8.683	62	1160	0.215	ug/l #	73
43) Isopropyl Acetate	8.694	43	166878	20.932	ug/l #	82
45) 1,2-Dichloropropane	9.747	63	1875	0.475	ug/l #	45
48) Methyl methacrylate	9.677	41	5406	1.463	ug/l #	30
49) 1,4-Dioxane	9.735	88	227	3.490	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	18008	3.630	ug/l #	73
54) cis-1,3-Dichloropropene	10.365	75	57863	9.815	ug/l #	72
56) Ethyl methacrylate	10.982	69	2811	0.555	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7287	1.161	ug/l #	42
59) 2-Hexanone	11.177	43	174207	47.761	ug/l #	19
71) Bromoform	12.853	173	1287	0.504	ug/l #	1
74) N-amyl acetate	12.465	43	2374	0.586	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	90769	29.743	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	90769	89.719	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.394	180	249	0.212	ug/l #	48
94) Hexachlorobutadiene	15.506	225	231	0.222	ug/l #	60
95) Naphthalene	15.641	128	1796	0.527	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.835	180	341	0.260	ug/l #	26

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

Quant Time: Oct 31 07:33:33 2023
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Quant Title : SW846 8260
QLast Update : Tue Oct 31 07:23:24 2023
Response via : Initial Calibration

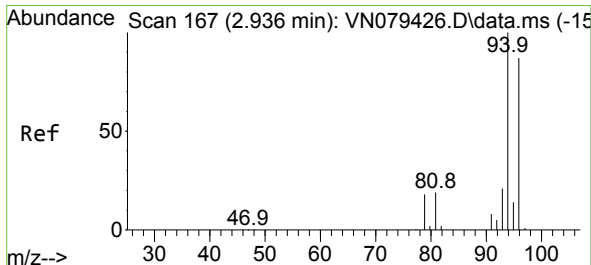
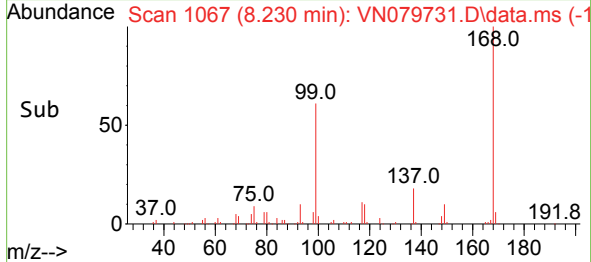
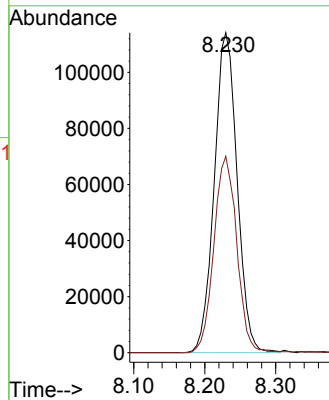
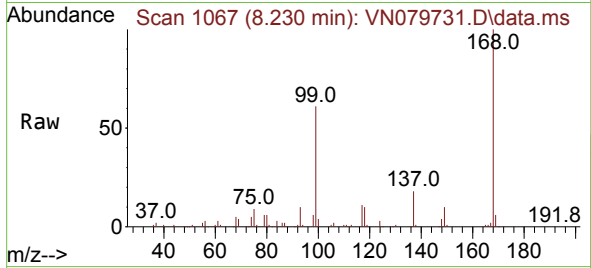




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

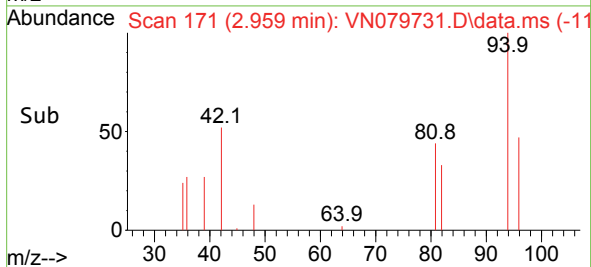
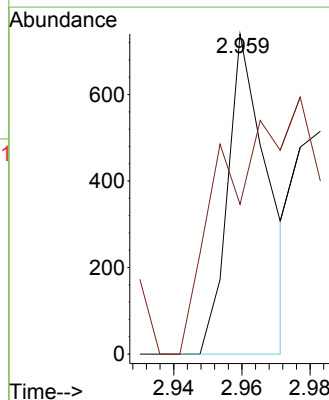
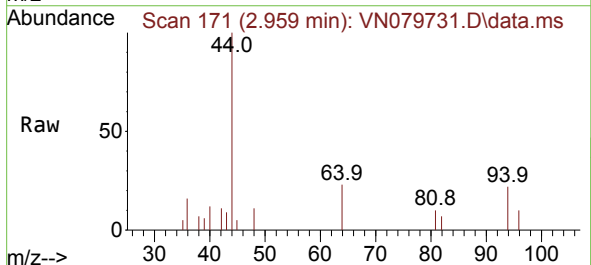
Instrument :
MSVOA_N
ClientSampleId :

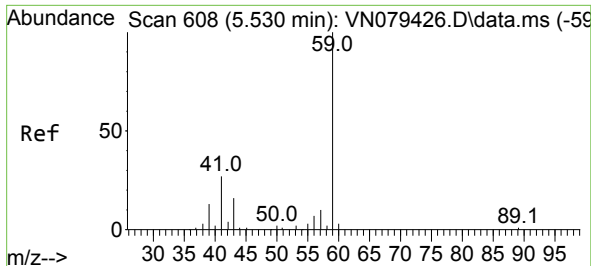
Tgt Ion:168 Resp: 254683
Ion Ratio Lower Upper
168 100
99 61.3 53.0 79.6



#5
Bromomethane
Concen: 0.208 ug/l
RT: 2.959 min Scan# 171
Delta R.T. 0.023 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

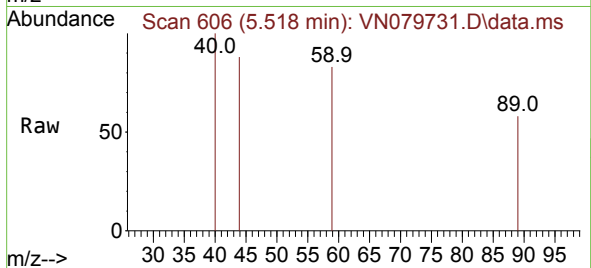
Tgt Ion: 94 Resp: 600
Ion Ratio Lower Upper
94 100
96 46.8 73.1 109.7#



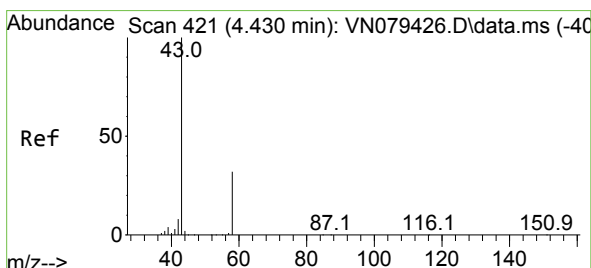
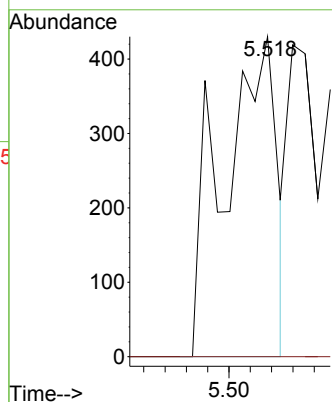
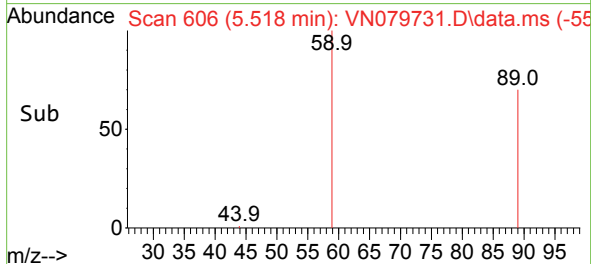


#11
Tert butyl alcohol
Concen: 1.384 ug/l
RT: 5.518 min Scan# 608
Delta R.T. -0.012 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

Instrument :
MSVOA_N
ClientSampleId :

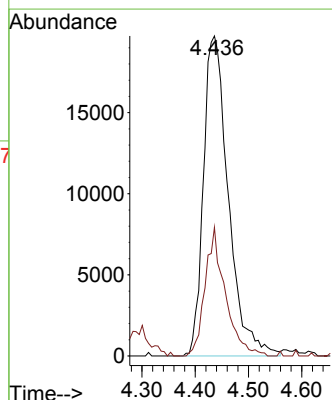
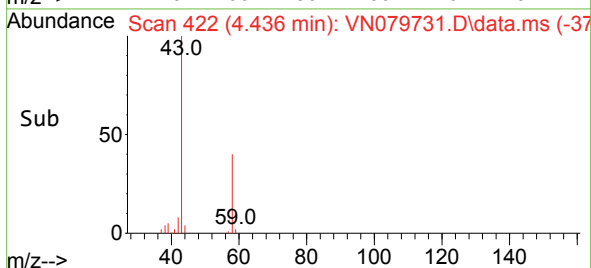
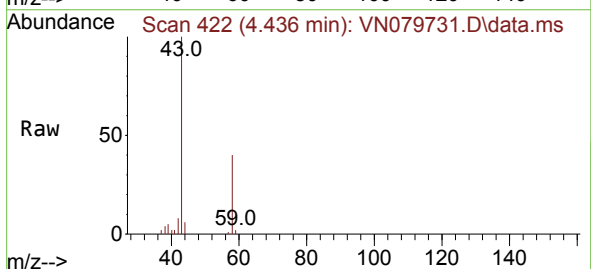


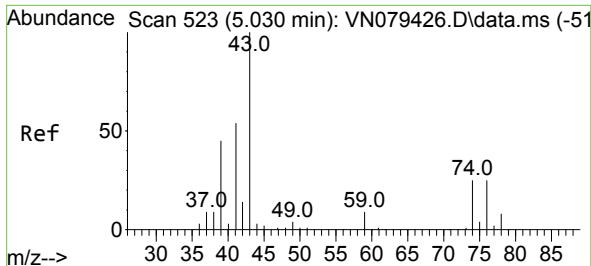
Tgt Ion: 59 Resp: 751
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 36.624 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

Tgt Ion: 43 Resp: 64085
Ion Ratio Lower Upper
43 100
58 40.2 28.0 42.0

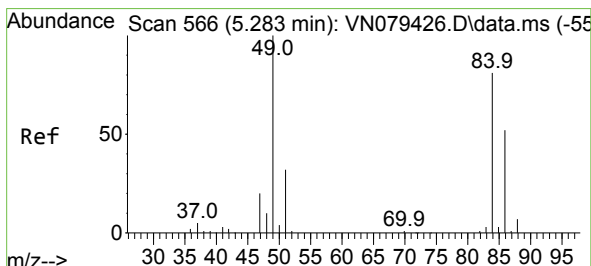
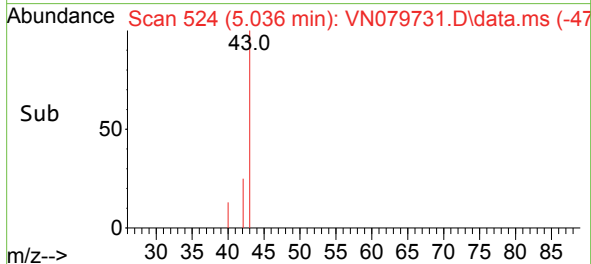
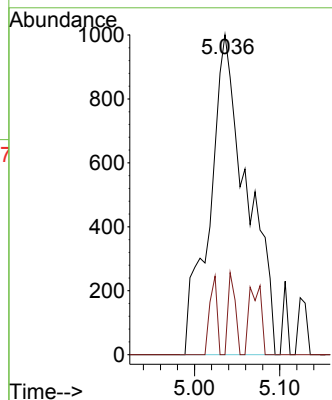
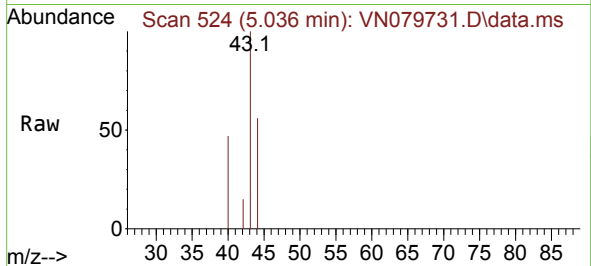




#18
Methyl Acetate
Concen: 0.431 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

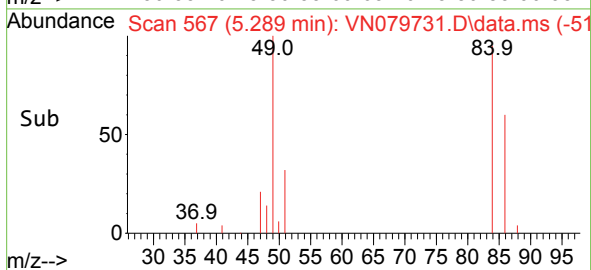
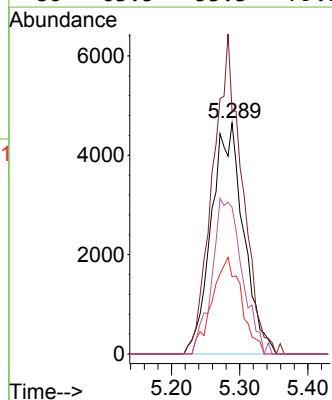
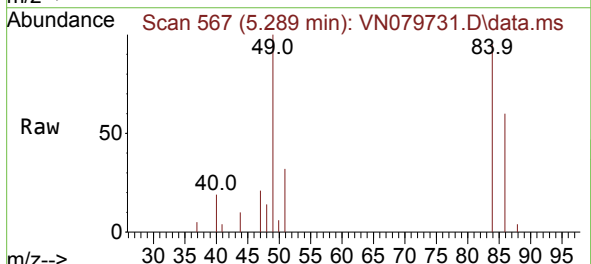
Instrument :
MSVOA_N
ClientSampleId :

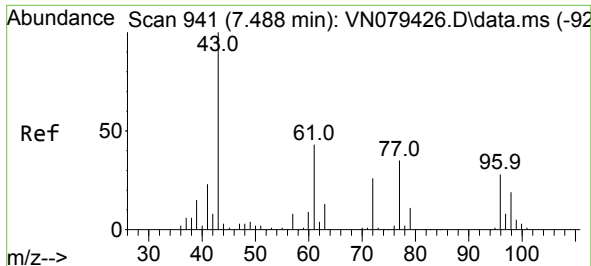
Tgt Ion: 43 Resp: 3043
Ion Ratio Lower Upper
43 100
74 5.0 26.2 39.4#



#20
Methylene Chloride
Concen: 4.399 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

Tgt Ion: 84 Resp: 15244
Ion Ratio Lower Upper
84 100
49 105.5 79.7 119.5
51 33.5 25.2 37.8
86 63.5 53.3 79.9

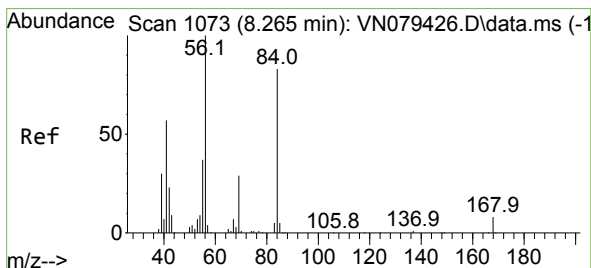
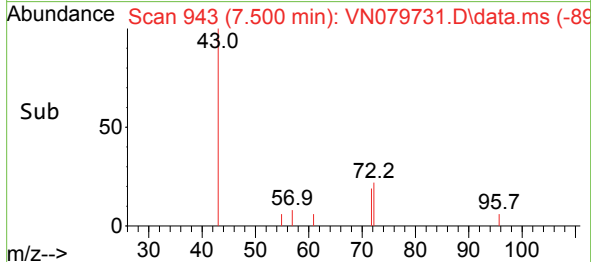
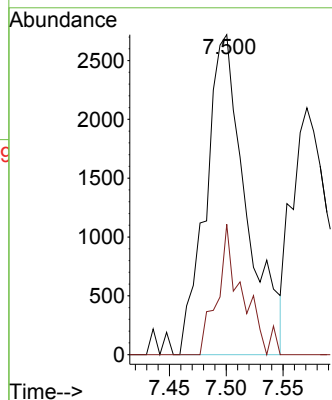
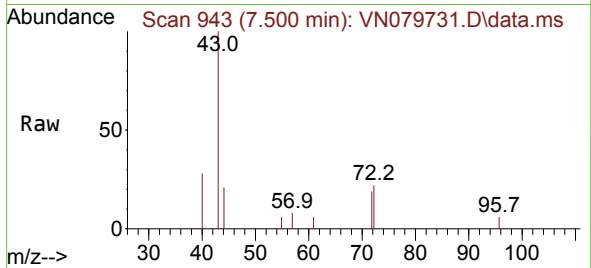




#25
2-Butanone
Concen: 2.793 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

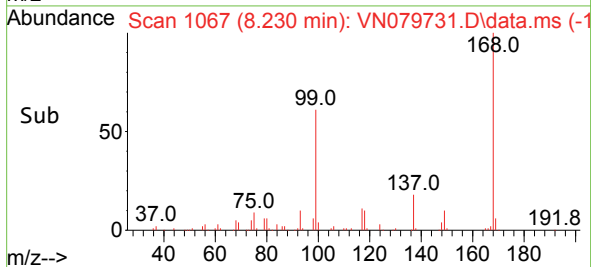
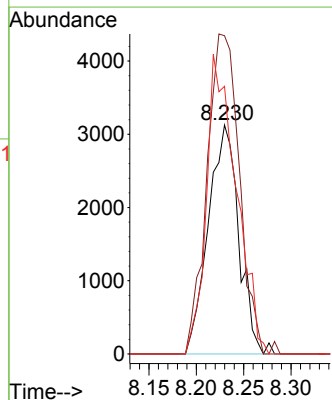
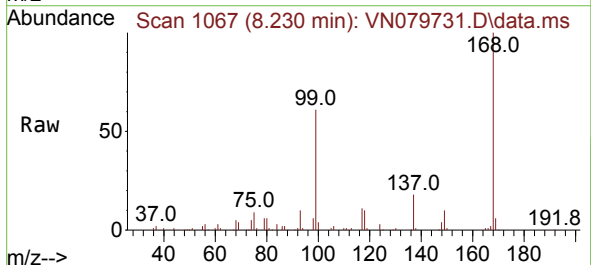
Instrument :
MSVOA_N
ClientSampleId :

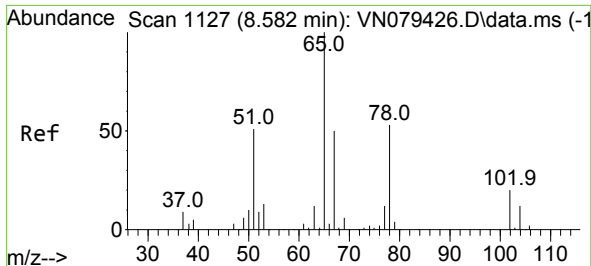
Tgt Ion: 43 Resp: 6712
Ion Ratio Lower Upper
43 100
72 40.7 30.2 45.2



#31
Cyclohexane
Concen: 1.255 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

Tgt Ion: 56 Resp: 7003
Ion Ratio Lower Upper
56 100
69 139.0 26.8 40.2#
84 117.0 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 56.133 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.001 min

Lab File: VN079731.D

Acq: 30 Oct 2023 18:42

Instrument :

MSVOA_N

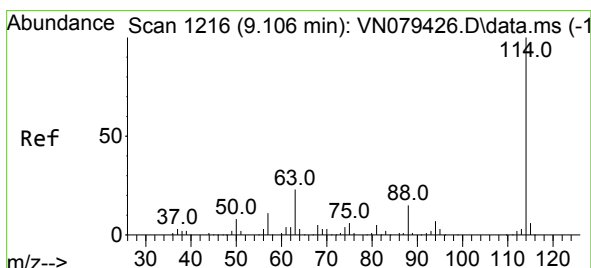
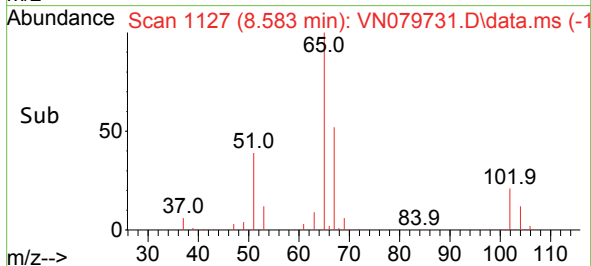
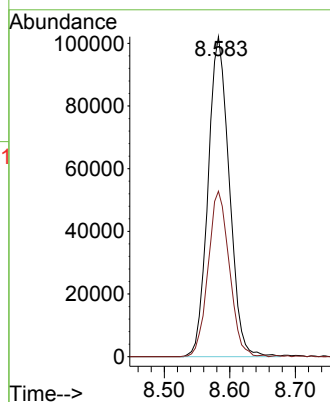
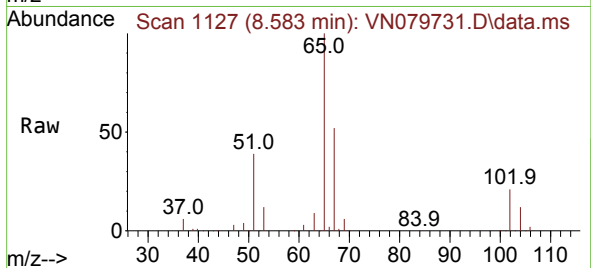
ClientSampleId :

Tgt Ion: 65 Resp: 229582

Ion Ratio Lower Upper

65 100

67 51.7 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079731.D

Acq: 30 Oct 2023 18:42

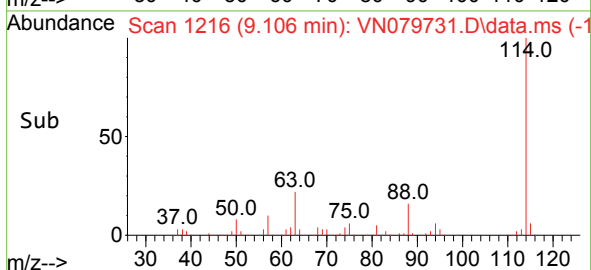
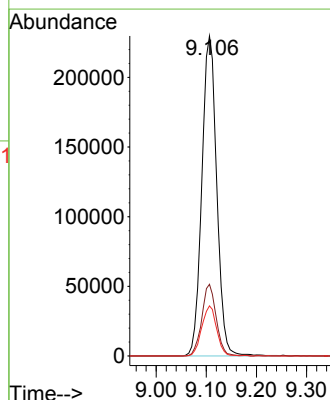
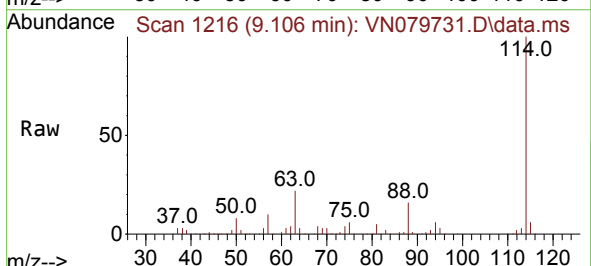
Tgt Ion: 114 Resp: 474619

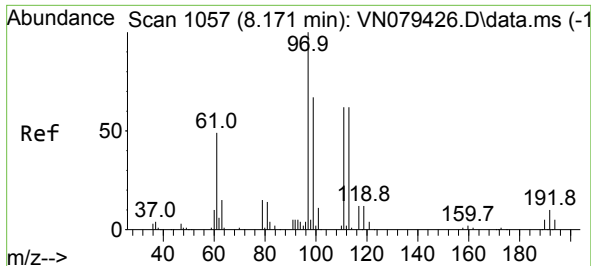
Ion Ratio Lower Upper

114 100

63 22.4 0.0 36.4

88 15.6 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.698 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

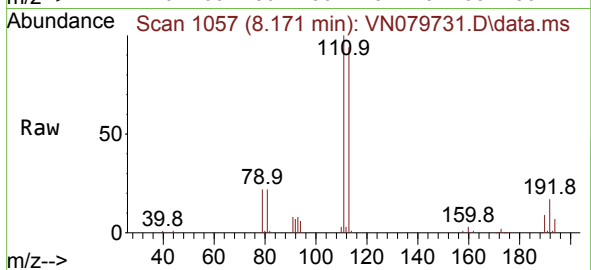
Lab File: VN079731.D

Acq: 30 Oct 2023 18:42

Instrument :

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ClientSampleId :



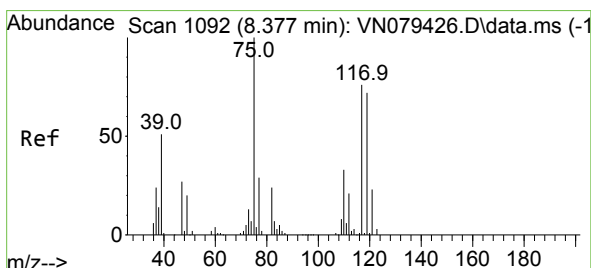
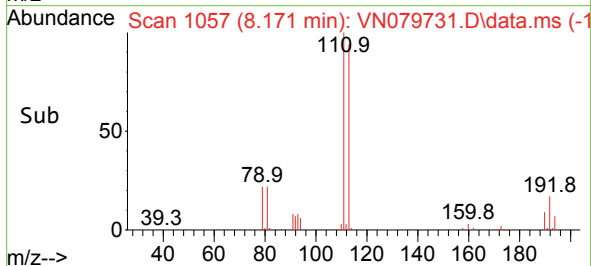
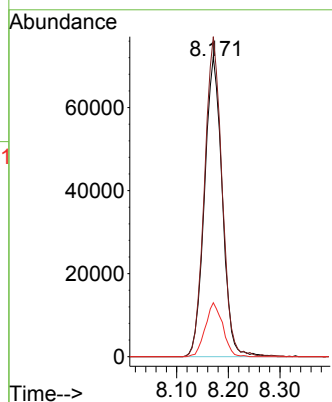
Tgt Ion:113 Resp: 171938

Ion Ratio Lower Upper

113 100

111 105.3 82.6 123.8

192 17.7 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.514 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079731.D

Acq: 30 Oct 2023 18:42

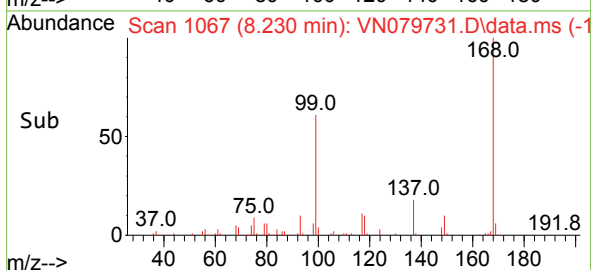
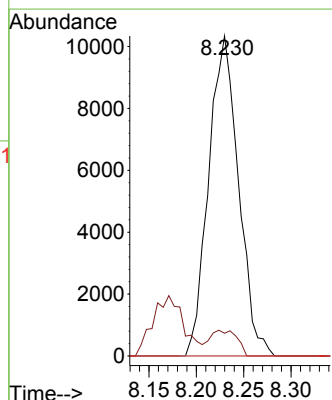
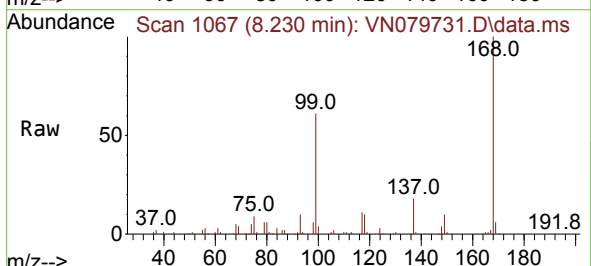
Tgt Ion: 75 Resp: 22712

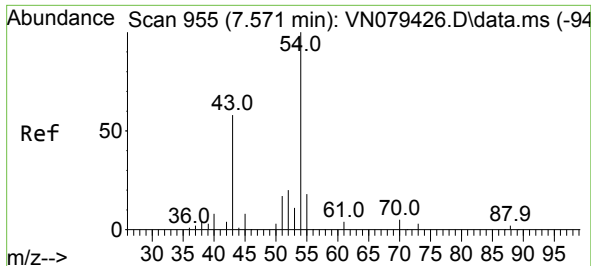
Ion Ratio Lower Upper

75 100

110 7.3 19.1 57.3#

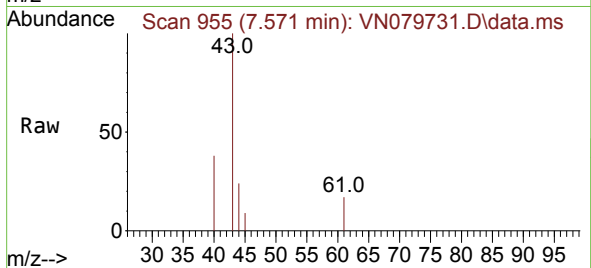
77 0.0 25.0 37.4#



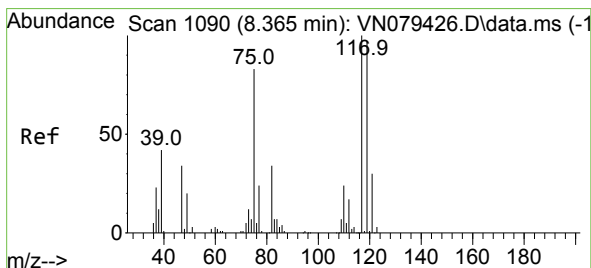
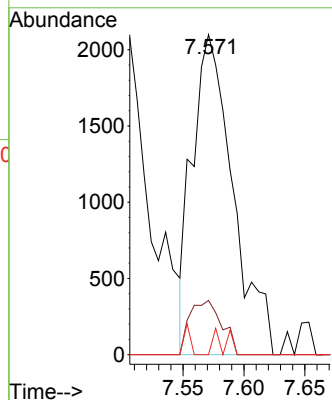


#37
Ethyl Acetate
Concen: 0.977 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

Instrument :
MSVOA_N
ClientSampleId :

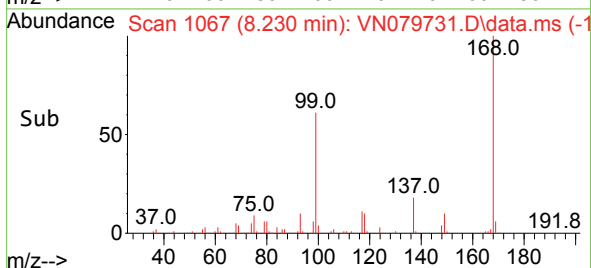
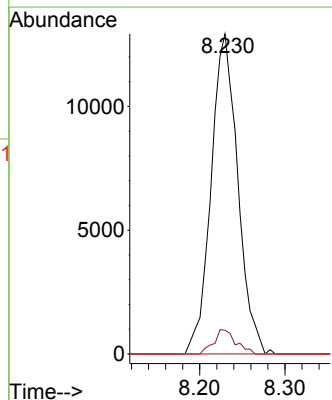
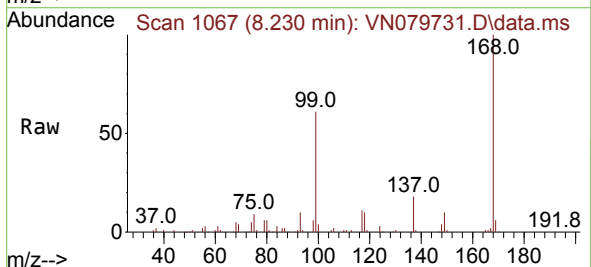


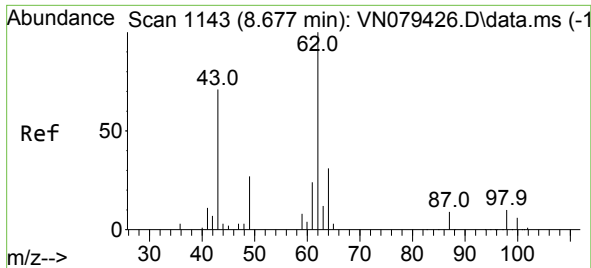
Tgt Ion:	43	Resp:	4871
Ion	Ratio	Lower	Upper
43	100		
61	13.4	13.2	19.8
70	2.4	11.3	16.9#



#38
Carbon Tetrachloride
Concen: 5.613 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

Tgt Ion:	117	Resp:	28163
Ion	Ratio	Lower	Upper
117	100		
119	7.4	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.215 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN079731.D

Acq: 30 Oct 2023 18:42

Instrument :

MSVOA_N

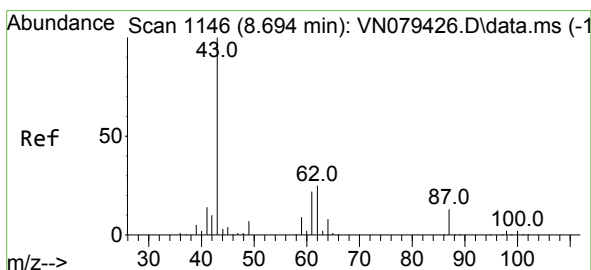
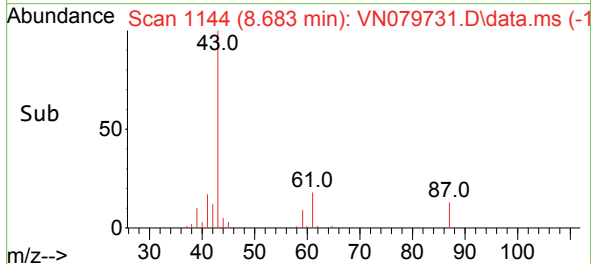
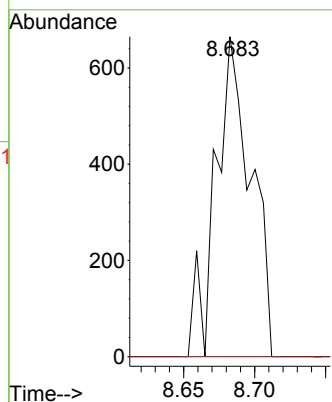
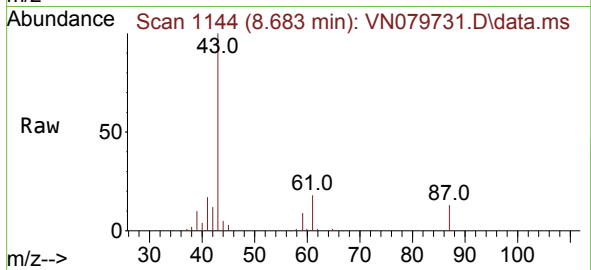
ClientSampleId :

Tgt Ion: 62 Resp: 1160

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 20.932 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079731.D

Acq: 30 Oct 2023 18:42

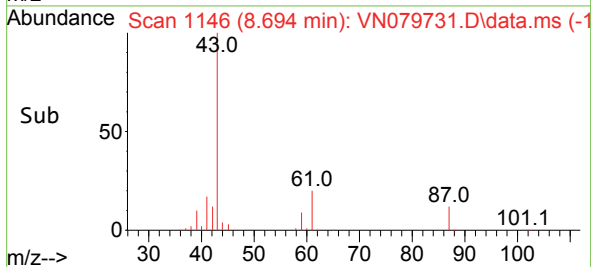
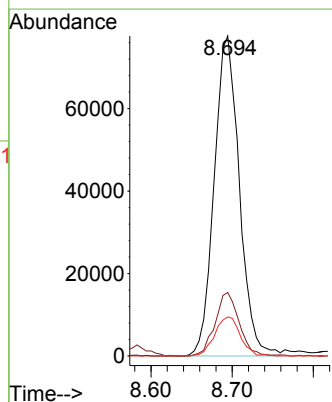
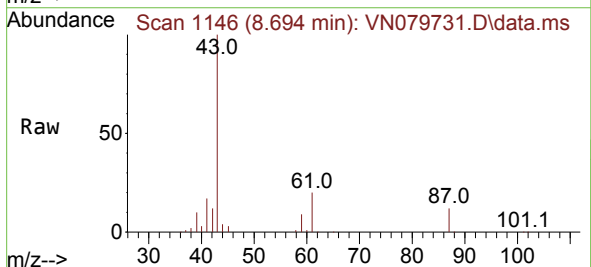
Tgt Ion: 43 Resp: 166878

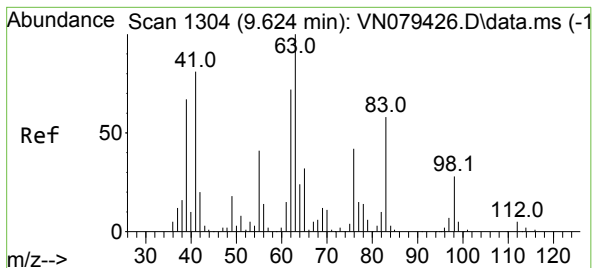
Ion Ratio Lower Upper

43 100

61 19.1 24.7 37.1#

87 12.4 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.475 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN079731.D

Acq: 30 Oct 2023 18:42

Instrument :

MSVOA_N

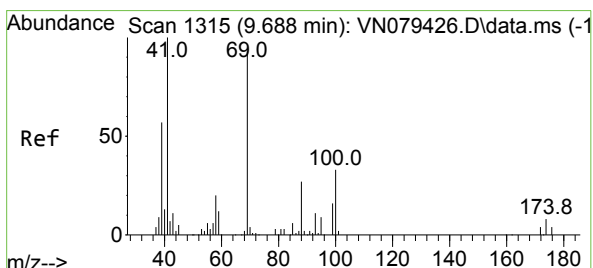
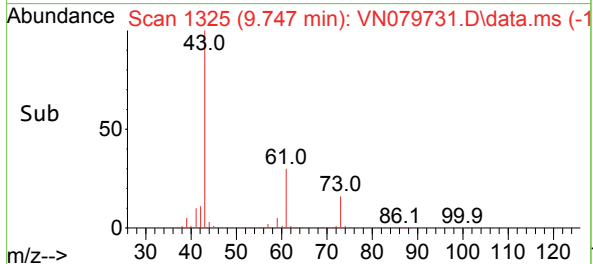
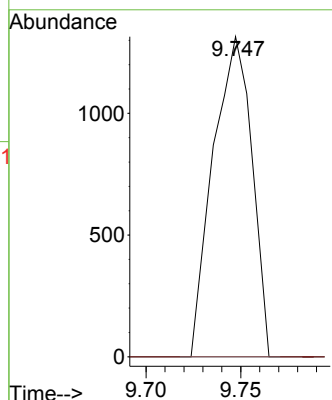
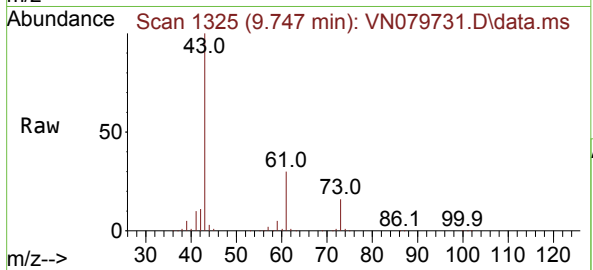
ClientSampleId :

Tgt Ion: 63 Resp: 1875

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.463 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.011 min

Lab File: VN079731.D

Acq: 30 Oct 2023 18:42

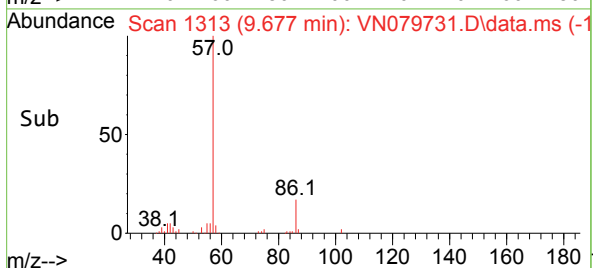
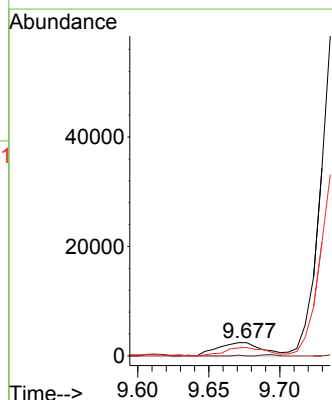
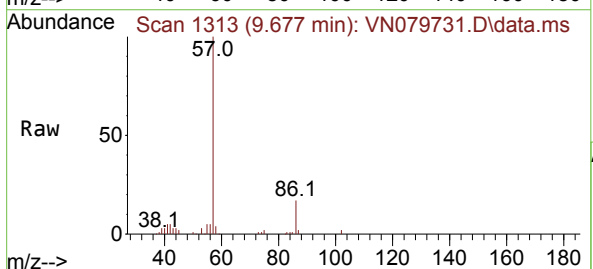
Tgt Ion: 41 Resp: 5406

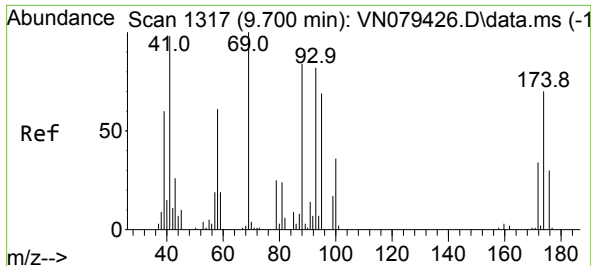
Ion Ratio Lower Upper

41 100

69 1.0 90.4 135.6#

39 57.9 54.6 81.8





#49

1,4-Dioxane

Concen: 3.490 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN079731.D

Acq: 30 Oct 2023 18:42

Instrument :

MSVOA_N

ClientSampleId :

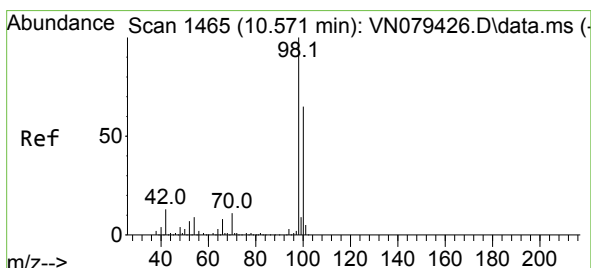
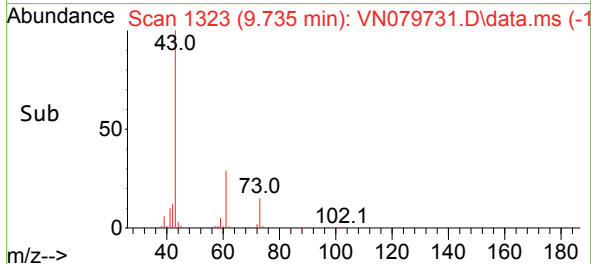
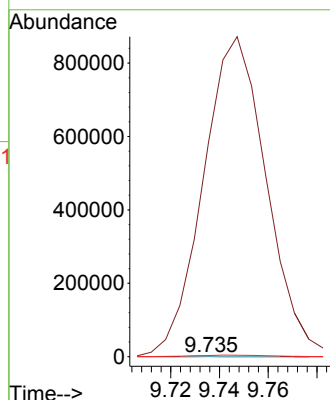
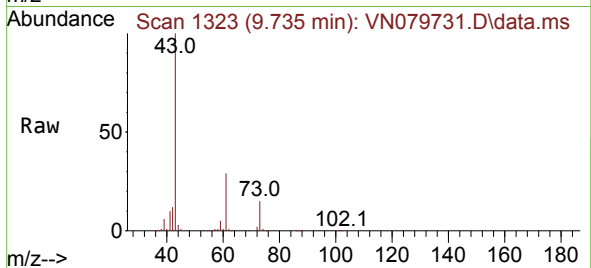
Tgt Ion: 88 Resp: 227

Ion Ratio Lower Upper

88 100

43 702827.3 17.0 25.6#

58 4091.2 47.0 70.4#



#50

Toluene-d8

Concen: 50.746 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN079731.D

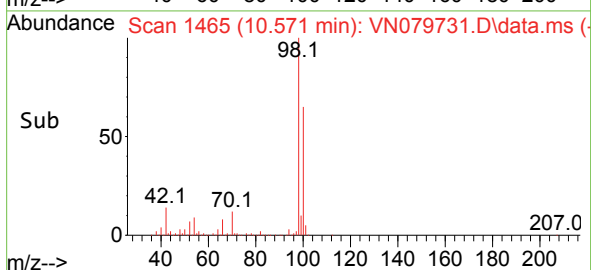
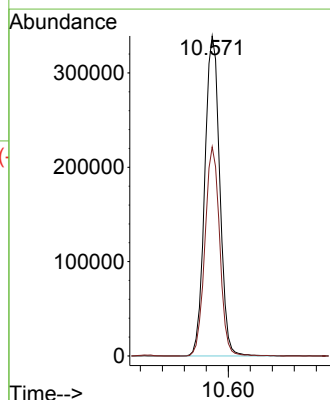
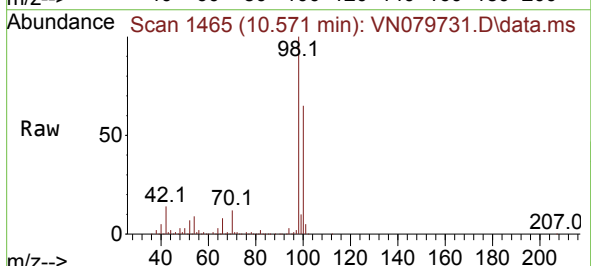
Acq: 30 Oct 2023 18:42

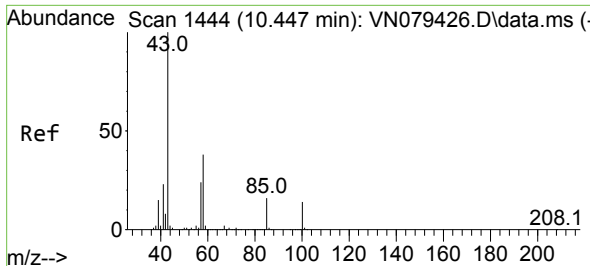
Tgt Ion: 98 Resp: 641564

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0

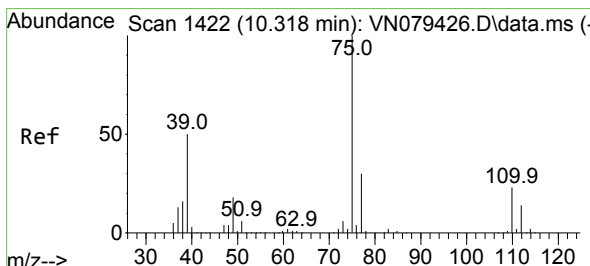
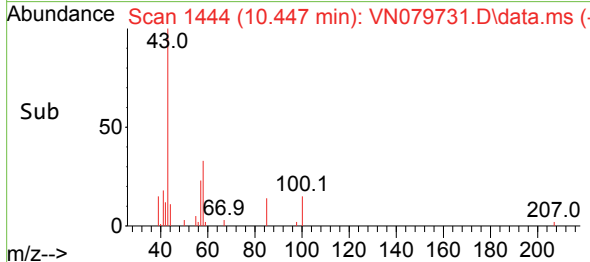
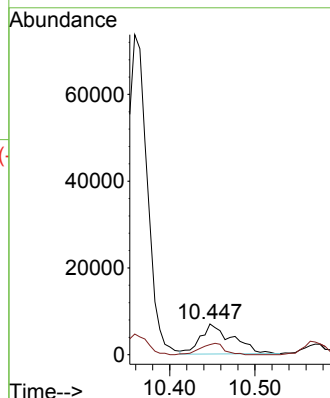
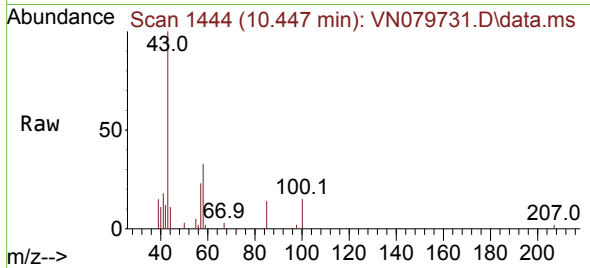




#51
4-Methyl-2-Pentanone
Concen: 3.630 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

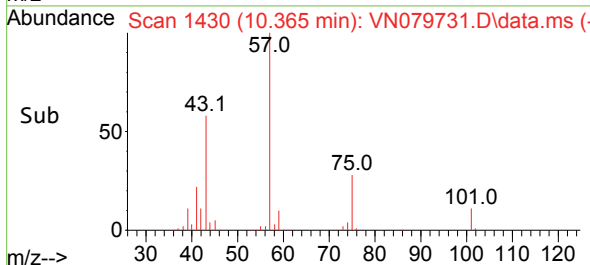
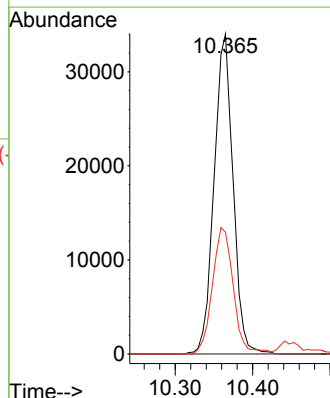
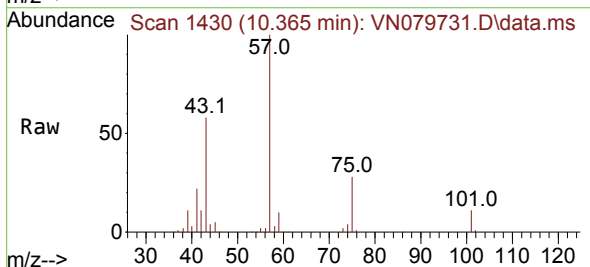
Instrument :
MSVOA_N
ClientSampleId :

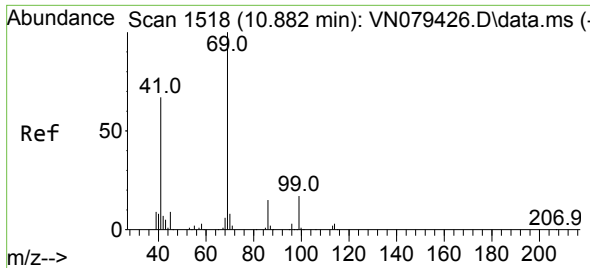
Tgt Ion: 43 Resp: 18008
Ion Ratio Lower Upper
43 100
58 28.1 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 9.815 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

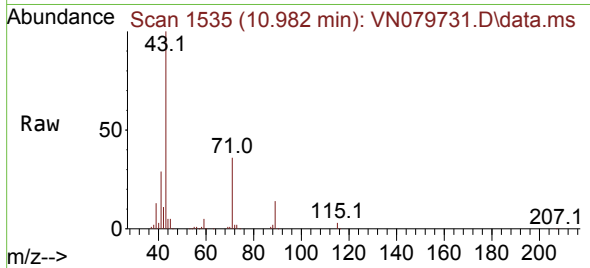
Tgt Ion: 75 Resp: 57863
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 38.0 31.6 47.4



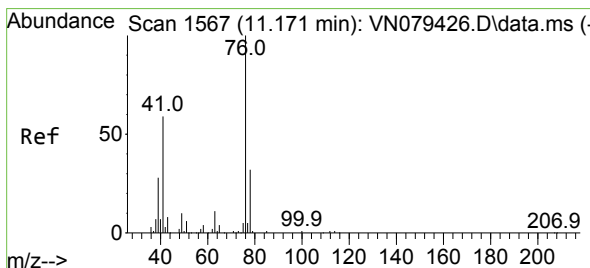
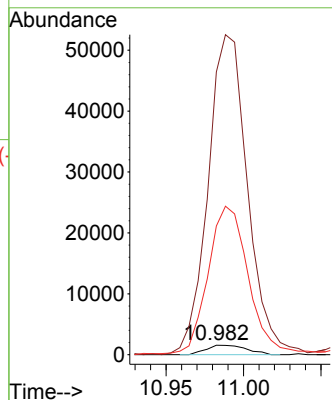
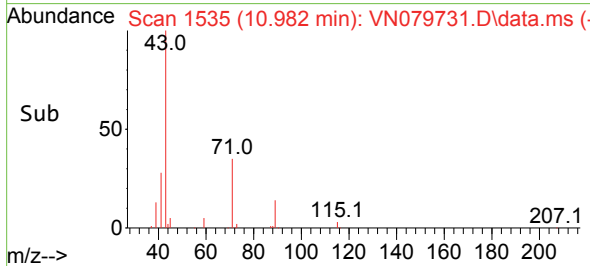


#56
Ethyl methacrylate
Concen: 0.555 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.100 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

Instrument :
MSVOA_N
ClientSampleId :

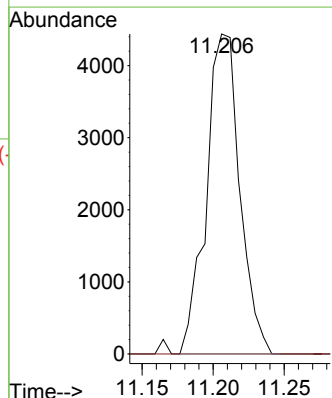
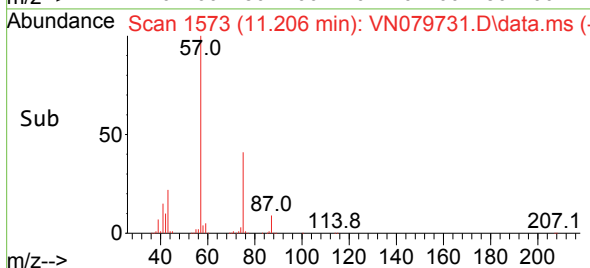
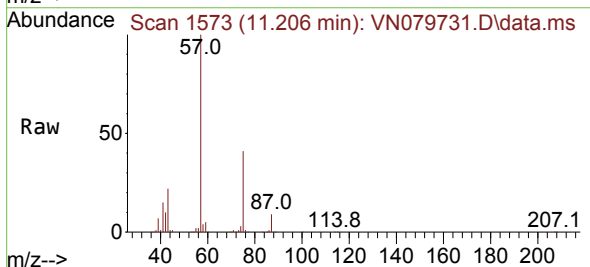


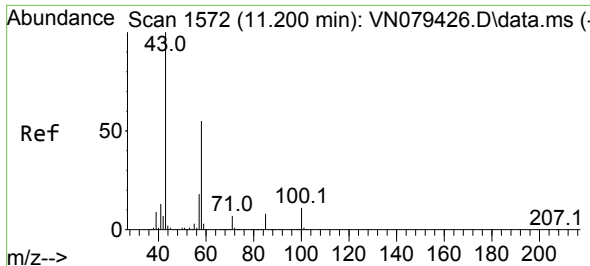
Tgt Ion: 69 Resp: 2811
Ion Ratio Lower Upper
69 100
41 3324.3 39.6 59.4#
39 1586.9 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.161 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

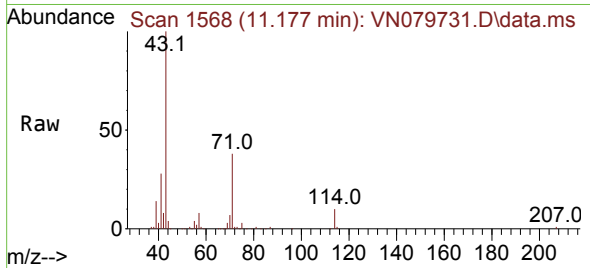
Tgt Ion: 76 Resp: 7287
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



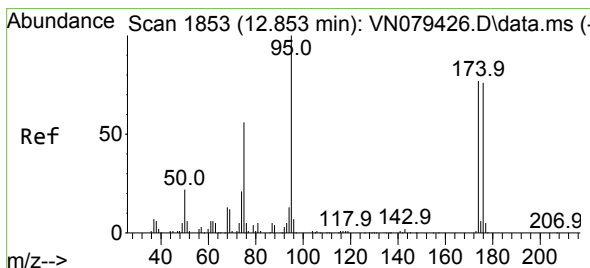
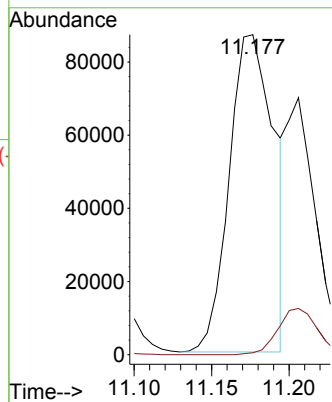
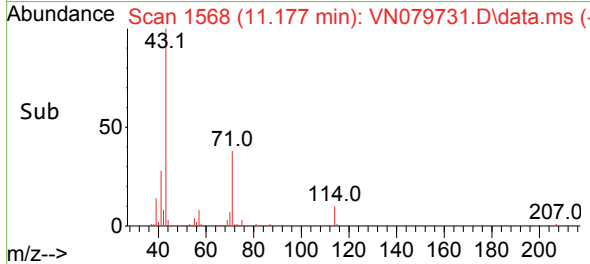


#59
2-Hexanone
Concen: 47.761 ug/l
RT: 11.177 min Scan# 11568
Delta R.T. -0.023 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

Instrument :
MSVOA_N
ClientSampleId :

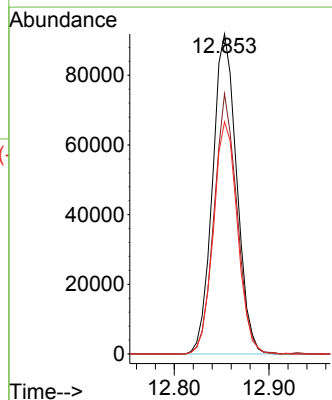
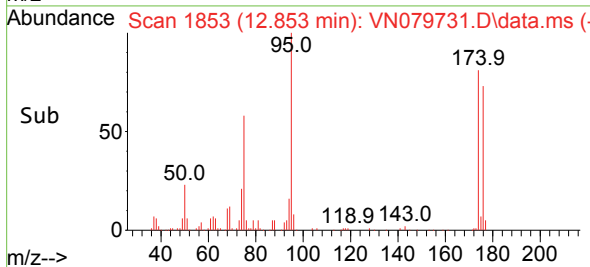
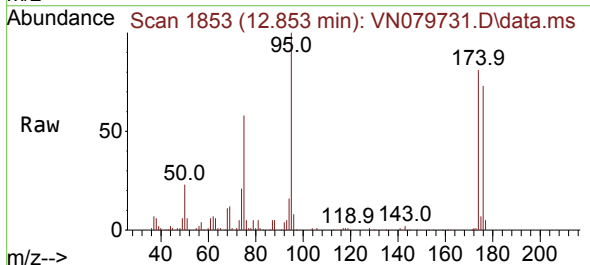


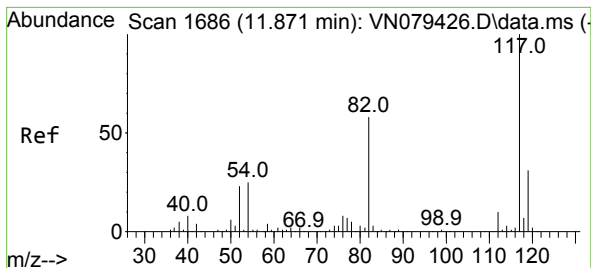
Tgt Ion: 43 Resp: 174207
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 40.753 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

Tgt Ion: 95 Resp: 162251
Ion Ratio Lower Upper
95 100
174 77.4 0.0 143.8
176 72.5 0.0 135.8

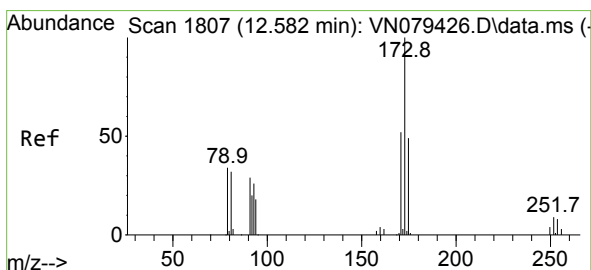
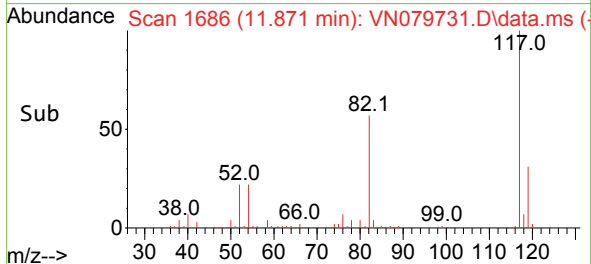
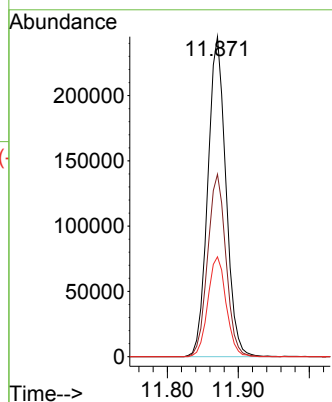
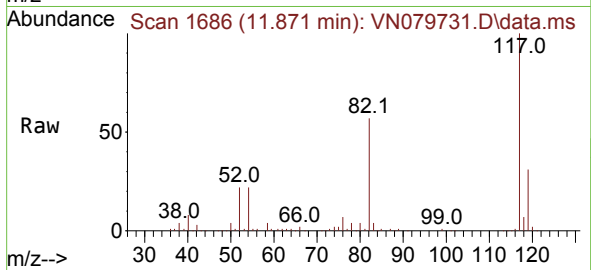




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

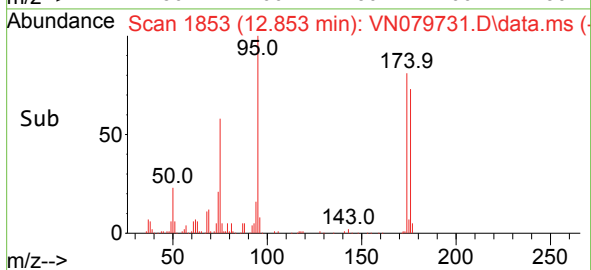
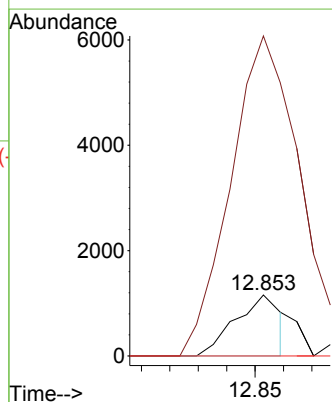
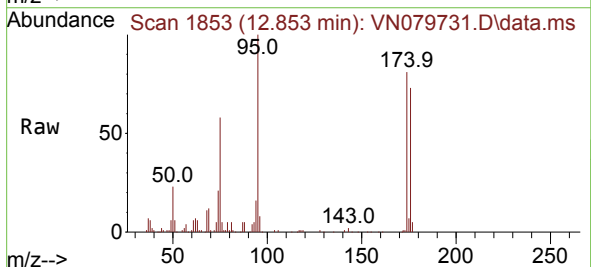
Instrument :
MSVOA_N
ClientSampleId :

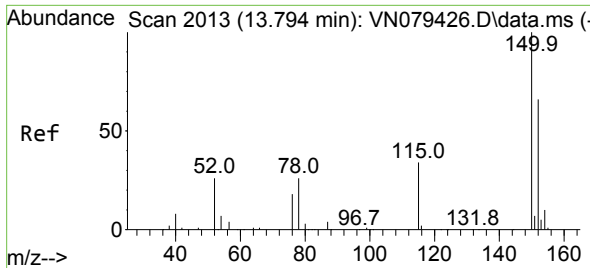
Tgt Ion:117 Resp: 433545
Ion Ratio Lower Upper
117 100
82 57.0 44.0 66.0
119 31.2 25.6 38.4



#71
Bromoform
Concen: 0.504 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

Tgt Ion:173 Resp: 1287
Ion Ratio Lower Upper
173 100
175 601.0 24.3 73.0#
254 0.0 0.0 0.0

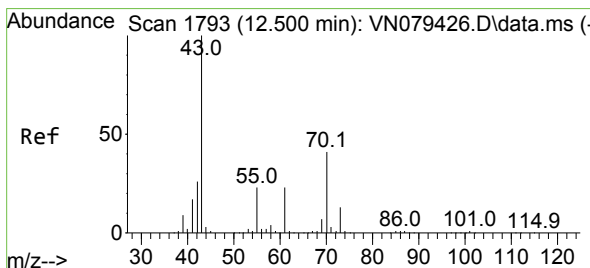
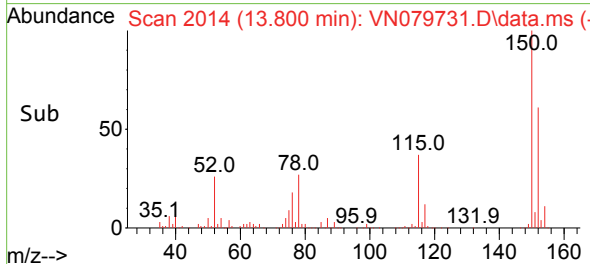
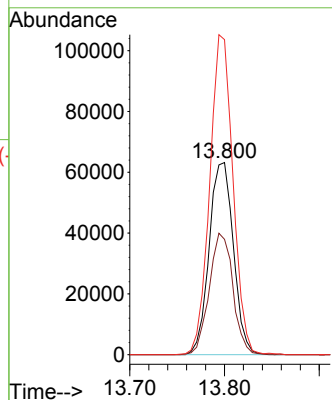
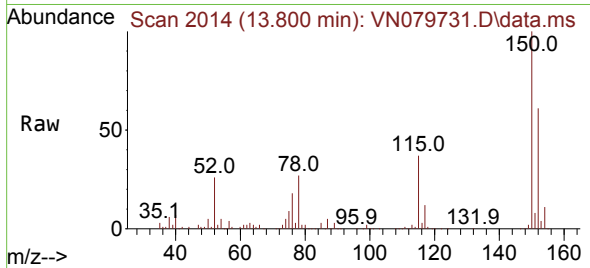




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

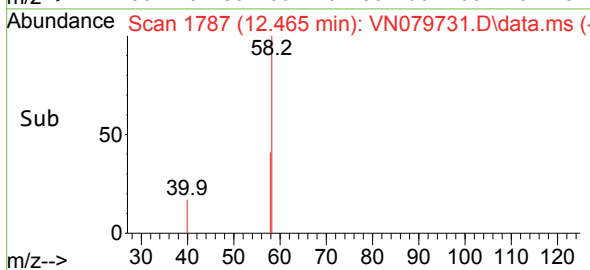
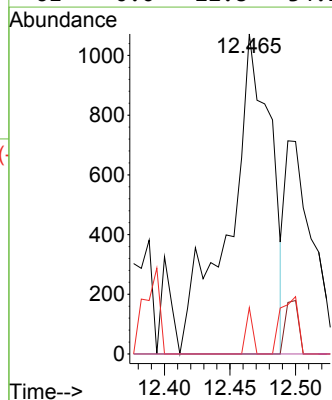
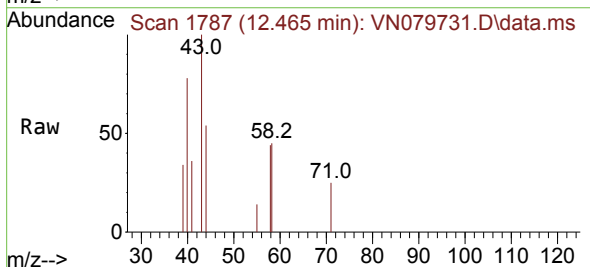
Instrument :
MSVOA_N
ClientSampleId :

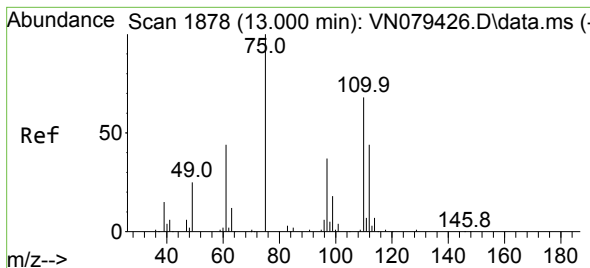
Tgt Ion:152 Resp: 112388
Ion Ratio Lower Upper
152 100
115 61.5 32.3 96.8
150 159.4 0.0 355.8



#74
N-ethyl acetate
Concen: 0.586 ug/l
RT: 12.465 min Scan# 1787
Delta R.T. -0.035 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

Tgt Ion: 43 Resp: 2374
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 2.3 21.4 32.0#
61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 29.743 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079731.D

Acq: 30 Oct 2023 18:42

Instrument :

MSVOA_N

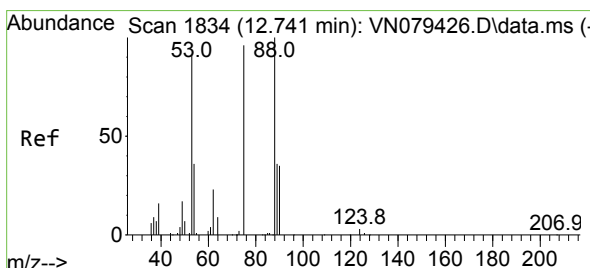
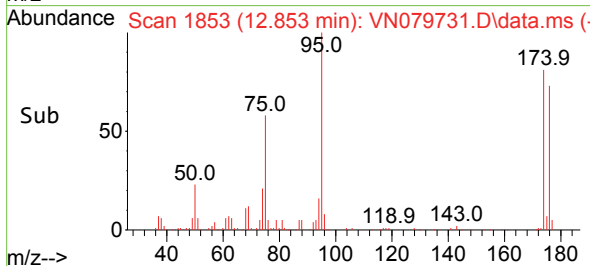
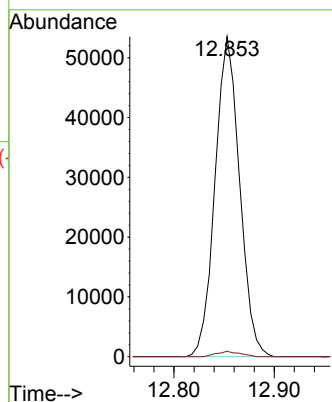
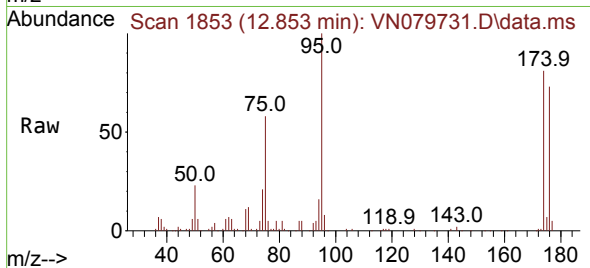
ClientSampleId :

Tgt Ion: 75 Resp: 90769

Ion Ratio Lower Upper

75 100

77 1.6 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 89.719 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN079731.D

Acq: 30 Oct 2023 18:42

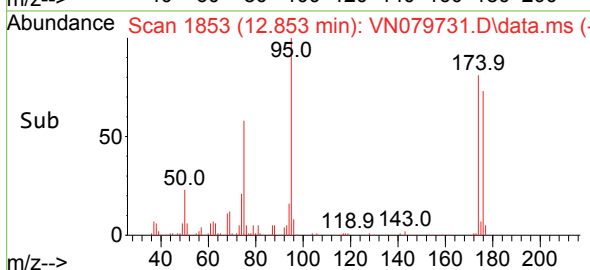
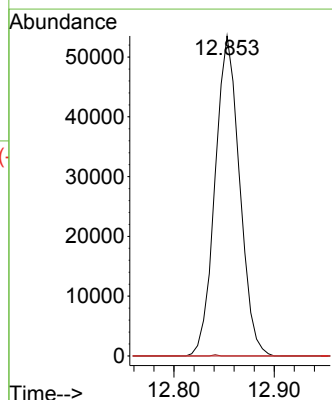
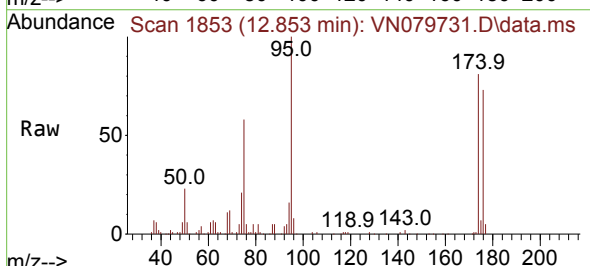
Tgt Ion: 75 Resp: 90769

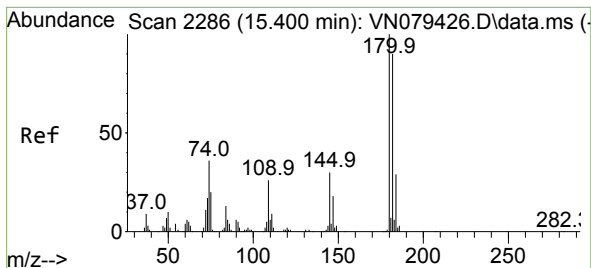
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#





#93

1,2,4-Trichlorobenzene

Concen: 0.212 ug/l

RT: 15.394 min Scan# 21

Delta R.T. -0.006 min

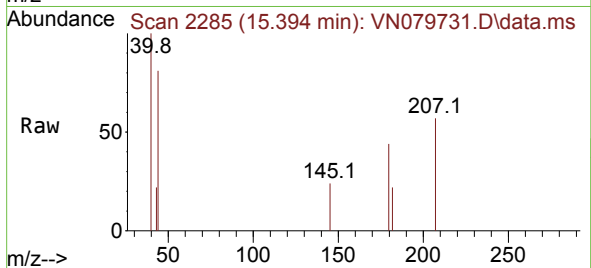
Lab File: VN079731.D

Acq: 30 Oct 2023 18:42

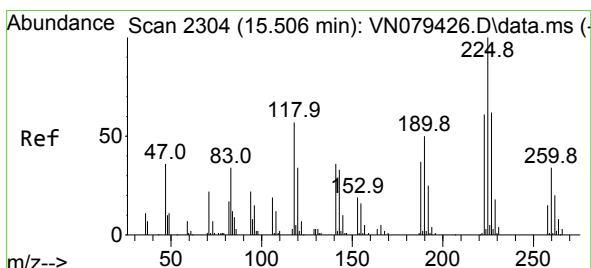
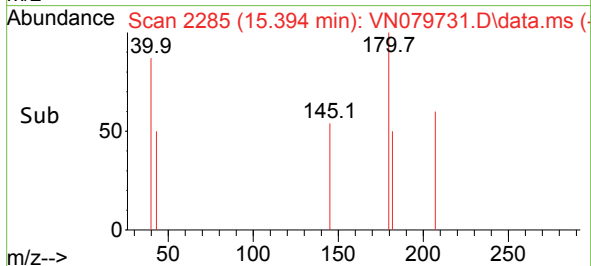
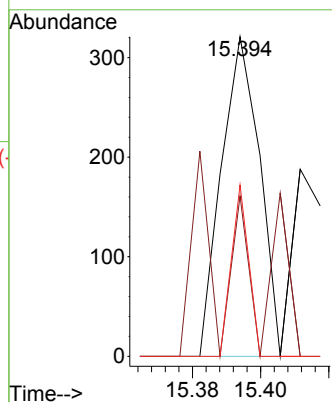
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	180	Resp:	249
Ion Ratio	Lower	Upper	
180	100		
182	29.3	46.1	138.2#
145	24.5	16.6	49.8



#94

Hexachlorobutadiene

Concen: 0.222 ug/l

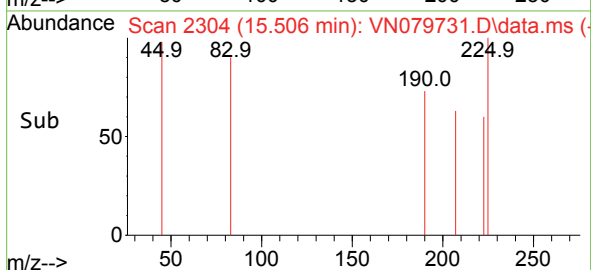
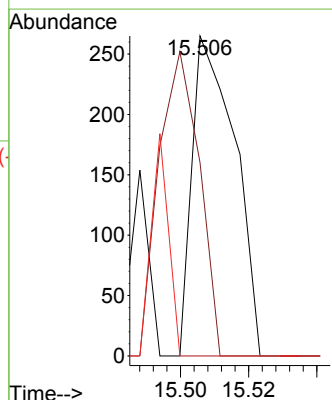
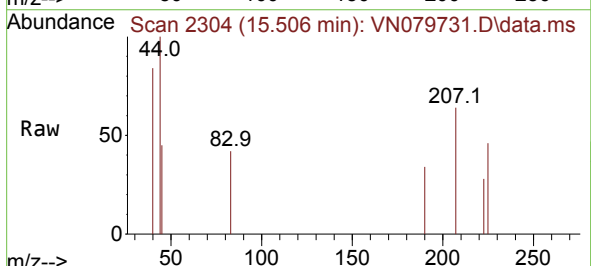
RT: 15.506 min Scan# 2304

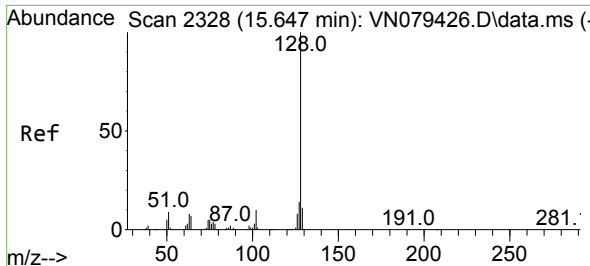
Delta R.T. -0.000 min

Lab File: VN079731.D

Acq: 30 Oct 2023 18:42

Tgt Ion:	225	Resp:	231
Ion Ratio	Lower	Upper	
225	100		
223	89.6	31.3	93.8
227	28.1	31.9	95.9#

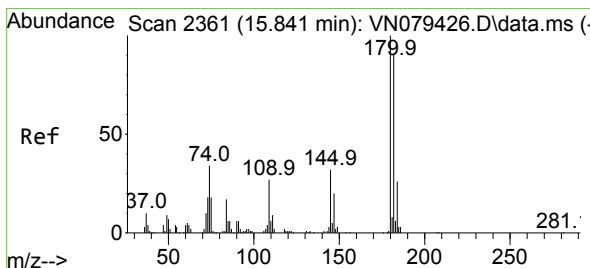
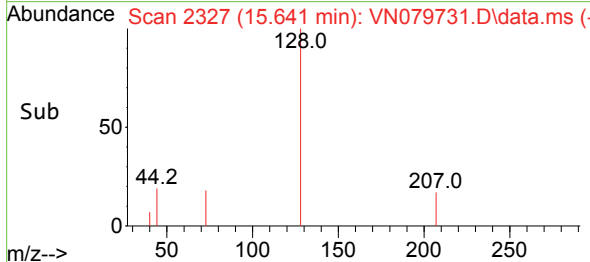
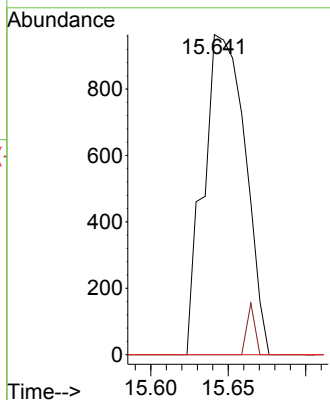
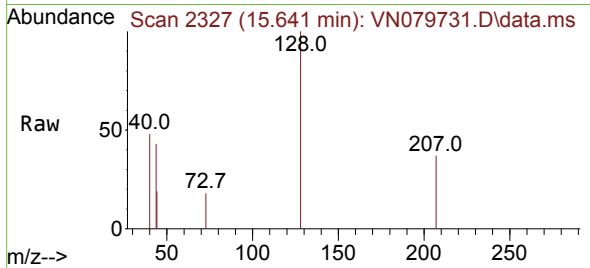




#95
Naphthalene
Concen: 0.527 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 1796
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.260 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN079731.D
Acq: 30 Oct 2023 18:42

Tgt Ion:180 Resp: 341
Ion Ratio Lower Upper
180 100
182 16.1 46.2 138.6#
145 0.0 17.5 52.6#

