

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032023\
 Data File : VN077060.D
 Acq On : 20 Mar 2023 11:03
 Operator : JC\MD
 Sample : VN0320MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0320MBL01

Quant Time: Mar 21 05:33:27 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)

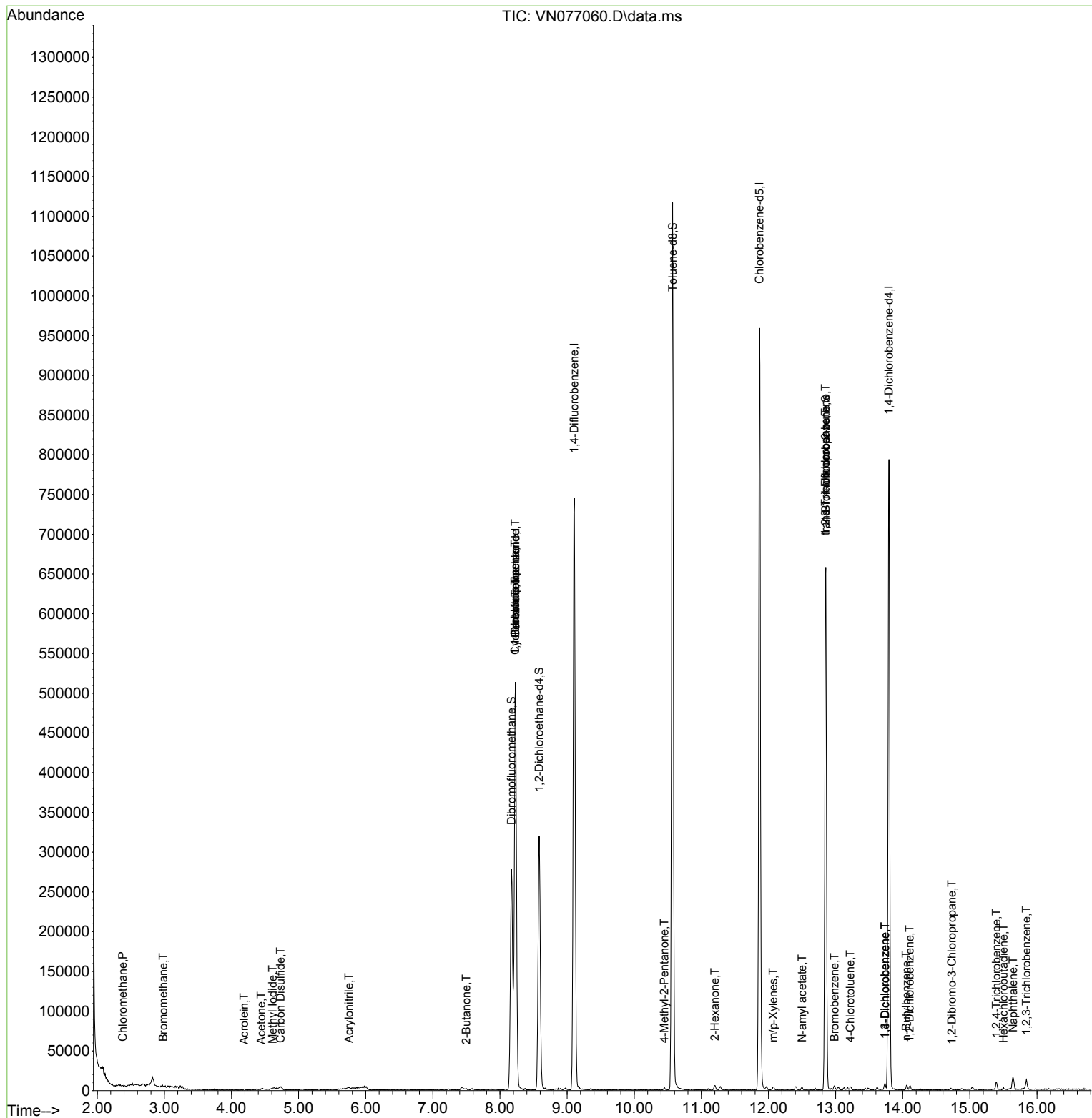
Internal Standards						
1) Pentafluorobenzene	8.231	168	356789	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	635574	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	548413	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	204613	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	265444	46.577	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.160%		
35) Dibromofluoromethane	8.172	113	205238	46.110	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.220%		
50) Toluene-d8	10.572	98	765859	48.169	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.340%		
62) 4-Bromofluorobenzene	12.854	95	243122	43.273	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	86.540%		
Target Compounds						Qvalue
3) Chloromethane	2.378	50	813	0.226	ug/l #	43
5) Bromomethane	2.984	94	1108	0.423	ug/l	85
10) Methyl Iodide	4.613	142	2620	0.491	ug/l #	82
13) Acrolein	4.190	56	804	0.783	ug/l	94
15) Acrylonitrile	5.748	53	2220	0.795	ug/l #	91
16) Acetone	4.443	43	773	0.304	ug/l #	43
17) Carbon Disulfide	4.731	76	4277	0.339	ug/l #	77
25) 2-Butanone	7.495	43	1819	0.490	ug/l #	49
31) Cyclohexane	8.225	56	9195	0.986	ug/l #	27
36) 1,1-Dichloropropene	8.225	75	33485	4.817	ug/l #	51
38) Carbon Tetrachloride	8.231	117	39279	5.801	ug/l #	15
51) 4-Methyl-2-Pentanone	10.448	43	1881	0.260	ug/l	88
59) 2-Hexanone	11.201	43	4355	0.830	ug/l	97
68) m/p-Xylenes	12.071	106	2056	0.242	ug/l #	55
74) N-amyl acetate	12.501	43	2068	0.261	ug/l #	89
76) 1,2,3-Trichloropropane	12.848	75	128537	24.286	ug/l #	1
77) Bromobenzene	12.983	156	1180	0.287	ug/l	89
81) trans-1,4-Dichloro-2-b...	12.848	75	128537	66.849	ug/l #	10
82) 4-Chlorotoluene	13.218	91	3878	0.302	ug/l	99
87) 1,3-Dichlorobenzene	13.736	146	2363	0.304	ug/l	91
88) 1,4-Dichlorobenzene	13.736	146	2363	0.306	ug/l	91
89) n-Butylbenzene	14.054	91	4010	0.311	ug/l	96
91) 1,2-Dichlorobenzene	14.101	146	2726	0.352	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	14.730	75	621	0.504	ug/l #	69
93) 1,2,4-Trichlorobenzene	15.395	180	3766	1.077	ug/l	91
94) Hexachlorobutadiene	15.501	225	423	0.220	ug/l	63
95) Naphthalene	15.642	128	15883	3.036	ug/l	97
96) 1,2,3-Trichlorobenzene	15.842	180	4493	1.280	ug/l	94

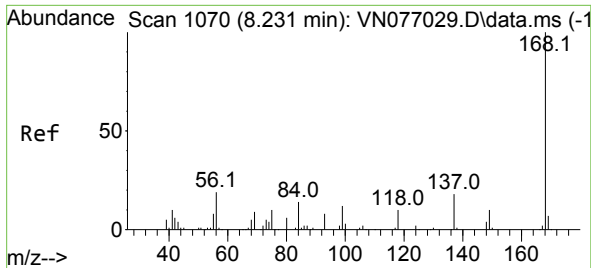
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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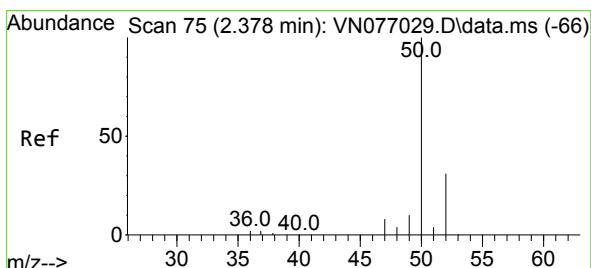
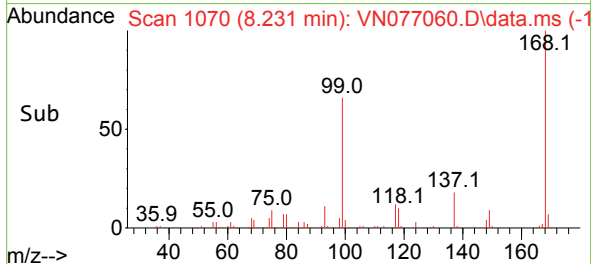
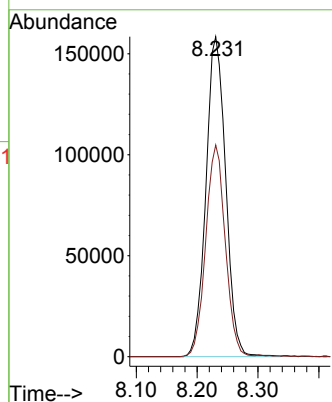
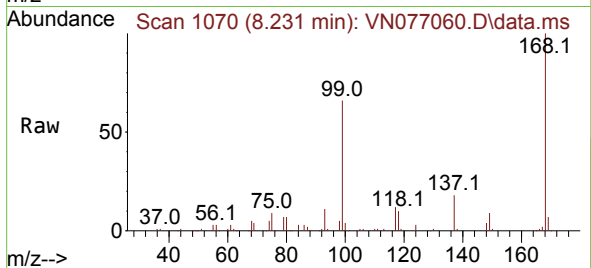




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

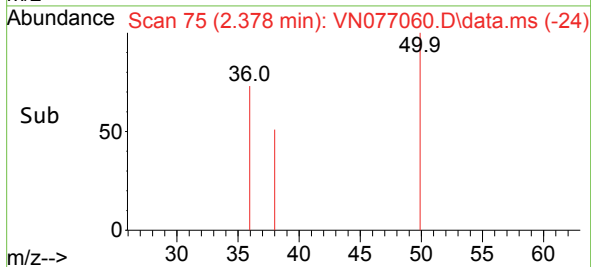
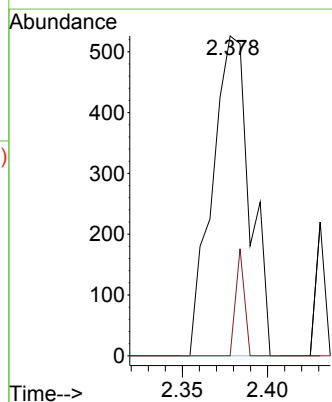
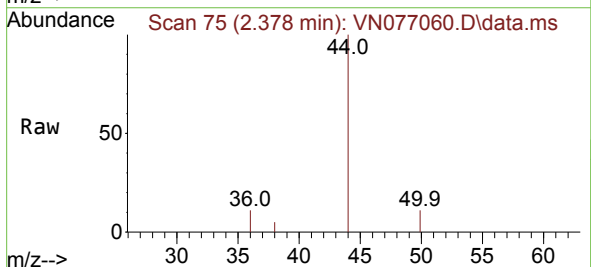
Instrument :
MSVOA_N
ClientSampleId :
VN0320MBL01

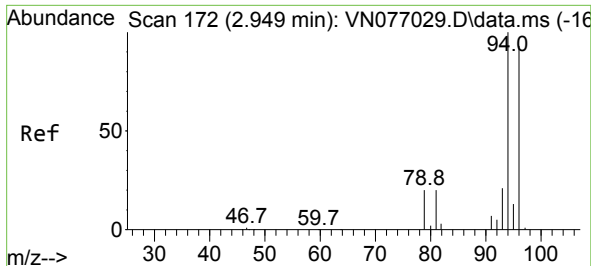
Tgt Ion:168 Resp: 356789
Ion Ratio Lower Upper
168 100
99 66.1 53.9 80.9



#3
Chloromethane
Concen: 0.226 ug/l
RT: 2.378 min Scan# 75
Delta R.T. -0.000 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

Tgt Ion: 50 Resp: 813
Ion Ratio Lower Upper
50 100
52 0.0 25.1 37.7#

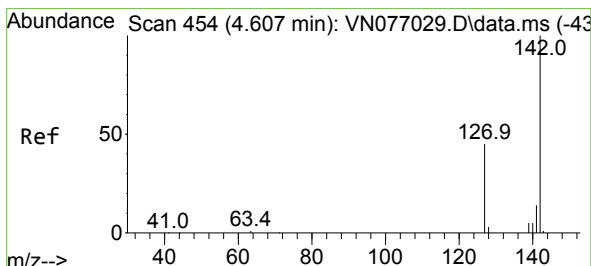
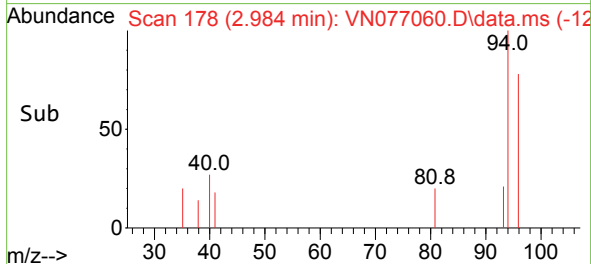
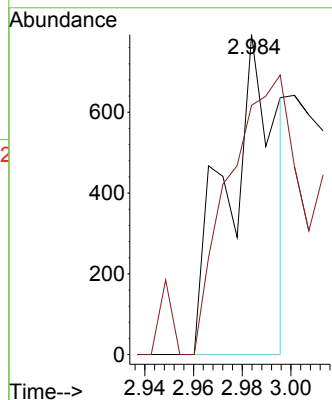
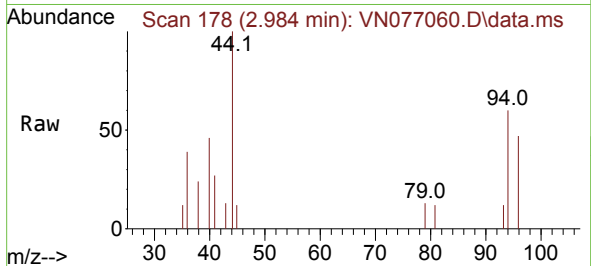




#5
Bromomethane
Concen: 0.423 ug/l
RT: 2.984 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

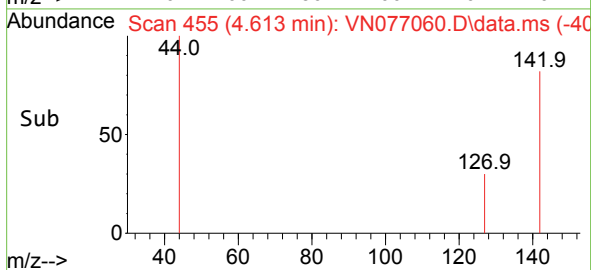
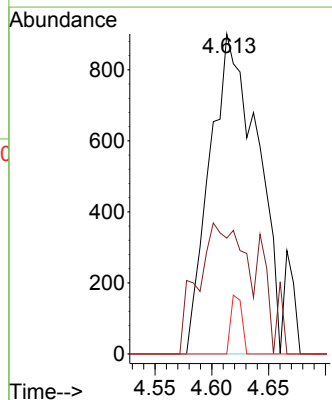
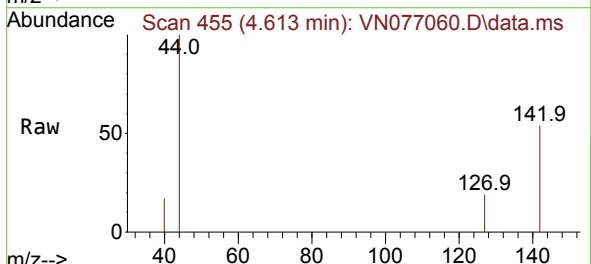
Instrument :
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ClientSampleId :
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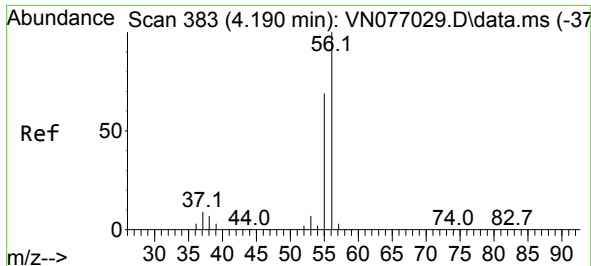
Tgt Ion: 94 Resp: 1108
Ion Ratio Lower Upper
94 100
96 77.9 74.1 111.1



#10
Methyl Iodide
Concen: 0.491 ug/l
RT: 4.613 min Scan# 455
Delta R.T. 0.006 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

Tgt Ion: 142 Resp: 2620
Ion Ratio Lower Upper
142 100
127 36.2 36.1 54.1
141 0.0 10.8 16.2#

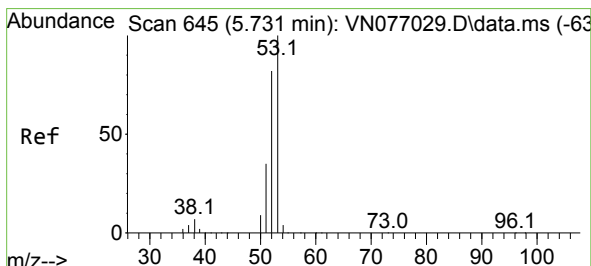
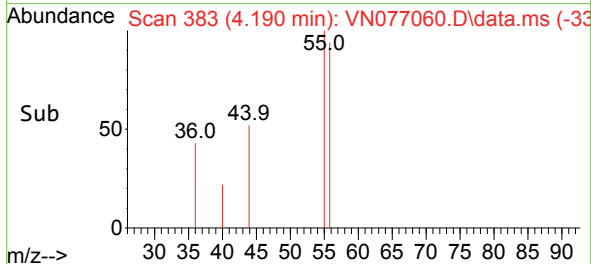
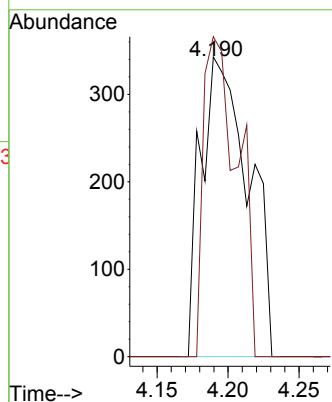
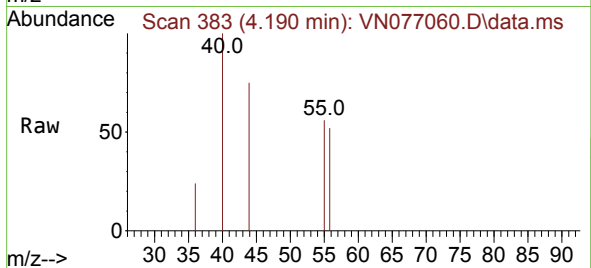




#13
Acrolein
Concen: 0.783 ug/l
RT: 4.190 min Scan# 383
Delta R.T. -0.000 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

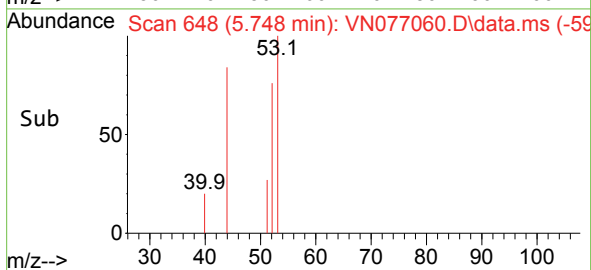
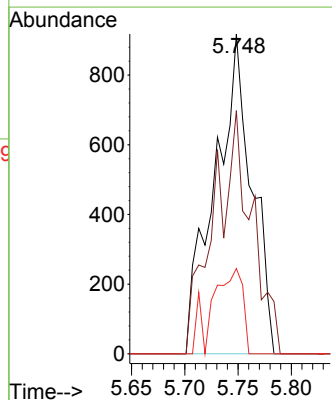
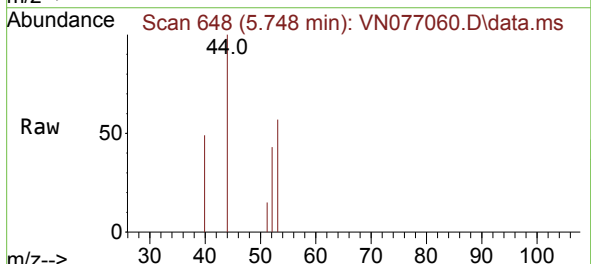
Instrument :
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ClientSampleId :
VN0320MBL01

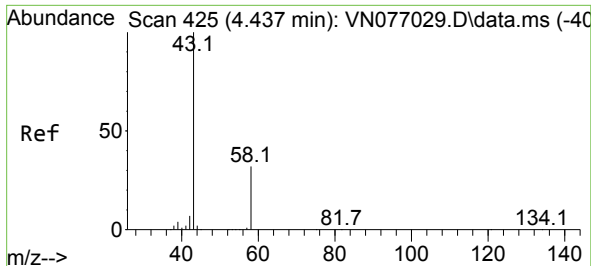
Tgt Ion: 56 Resp: 804
Ion Ratio Lower Upper
56 100
55 76.1 57.0 85.6



#15
Acrylonitrile
Concen: 0.795 ug/l
RT: 5.748 min Scan# 648
Delta R.T. 0.017 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

Tgt Ion: 53 Resp: 2220
Ion Ratio Lower Upper
53 100
52 77.8 64.6 97.0
51 21.8 28.3 42.5#

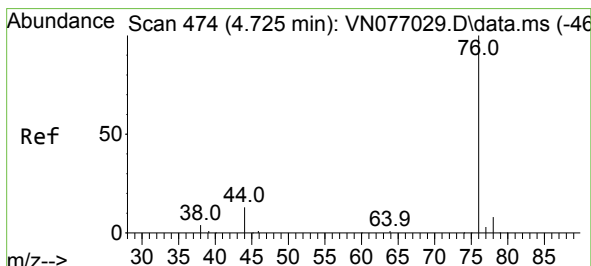
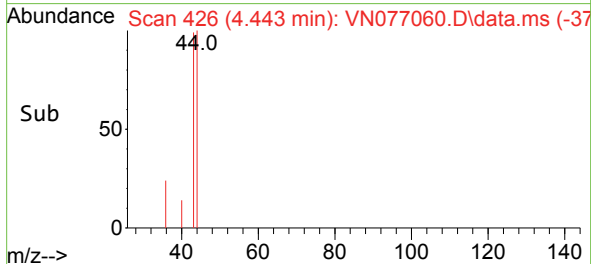
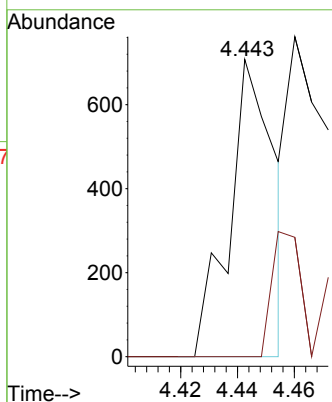
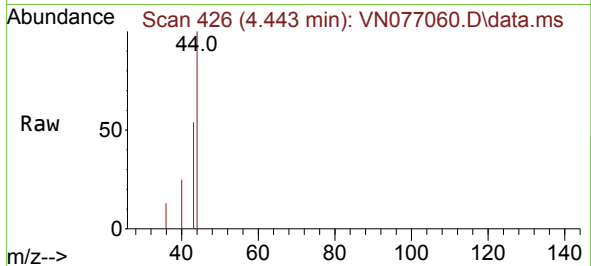




#16
Acetone
Concen: 0.304 ug/l
RT: 4.443 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

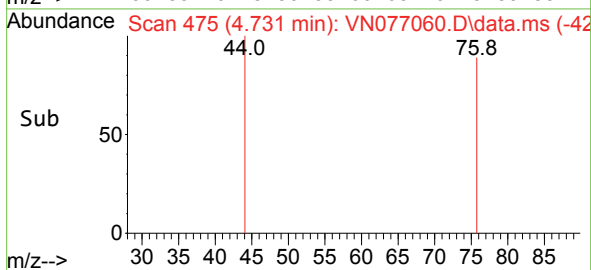
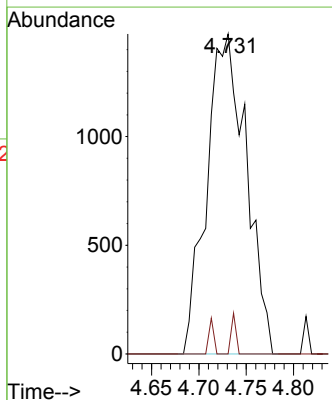
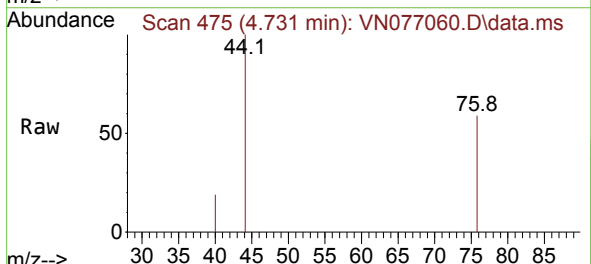
Instrument :
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ClientSampleId :
VN0320MBL01

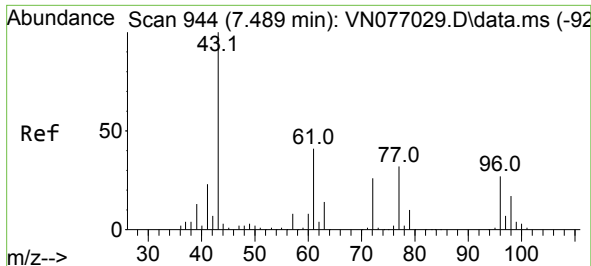
Tgt Ion: 43 Resp: 773
Ion Ratio Lower Upper
43 100
58 0.0 25.4 38.0#



#17
Carbon Disulfide
Concen: 0.339 ug/l
RT: 4.731 min Scan# 475
Delta R.T. 0.006 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

Tgt Ion: 76 Resp: 4277
Ion Ratio Lower Upper
76 100
78 0.0 6.6 10.0#

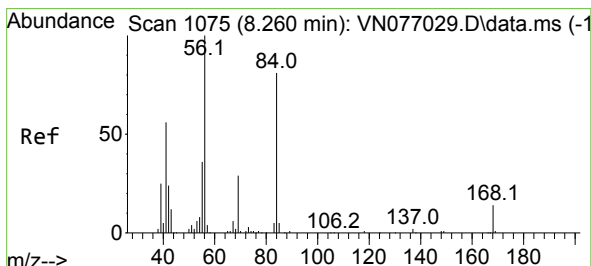
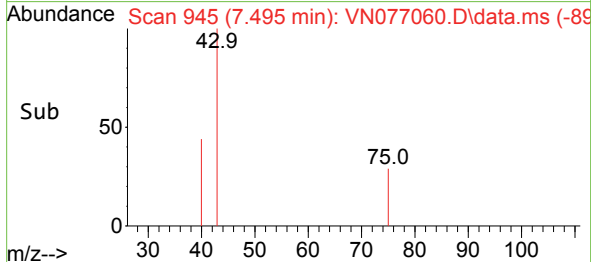
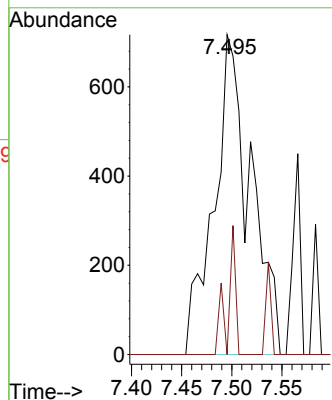
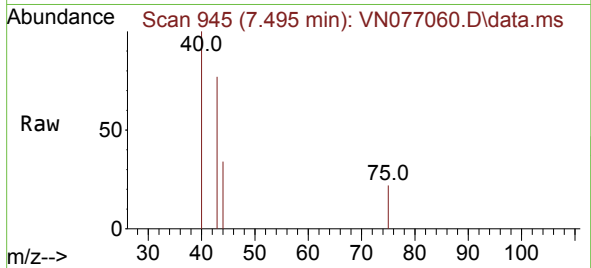




#25
2-Butanone
Concen: 0.490 ug/l
RT: 7.495 min Scan# 944
Delta R.T. 0.006 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

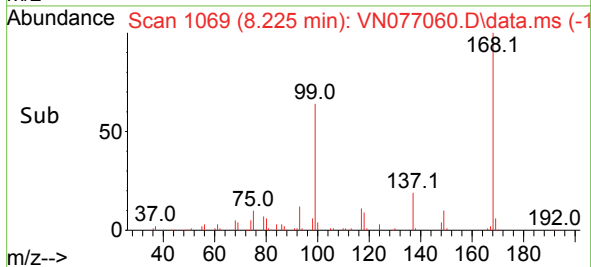
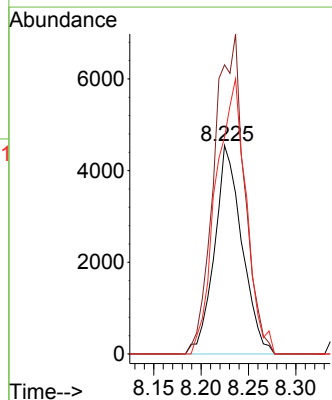
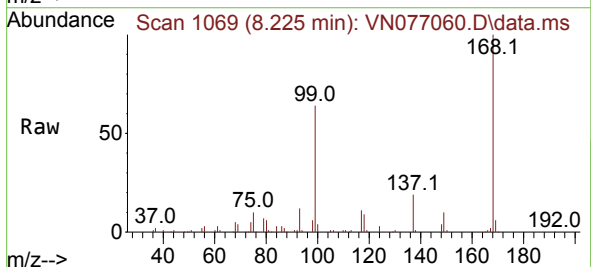
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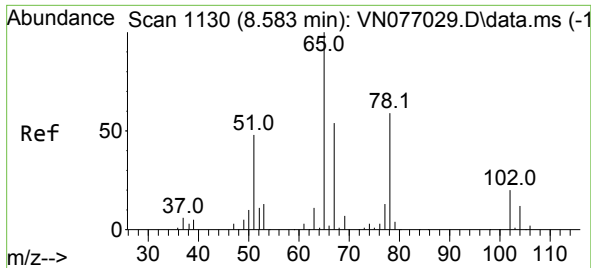
Tgt Ion: 43 Resp: 1819
Ion Ratio Lower Upper
43 100
72 0.0 20.7 31.1#



#31
Cyclohexane
Concen: 0.986 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.035 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

Tgt Ion: 56 Resp: 9195
Ion Ratio Lower Upper
56 100
69 138.7 22.8 34.2#
84 103.9 64.7 97.1#

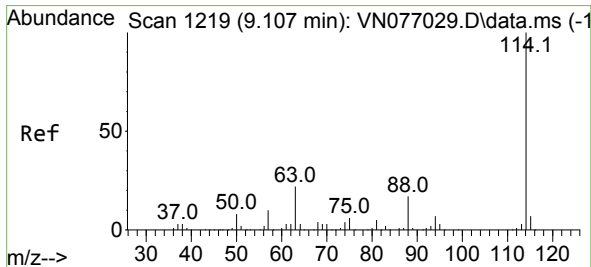
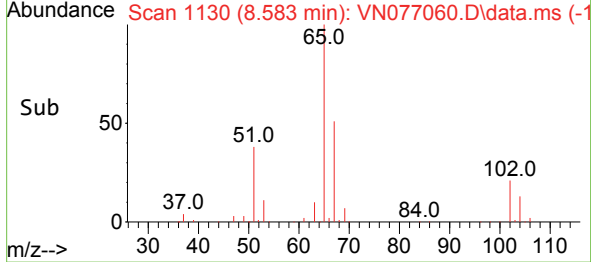
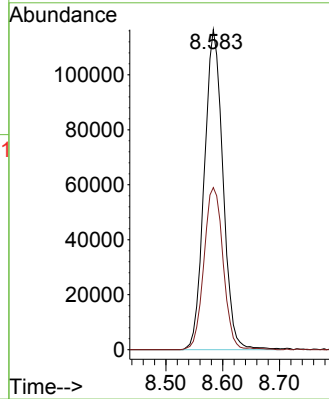
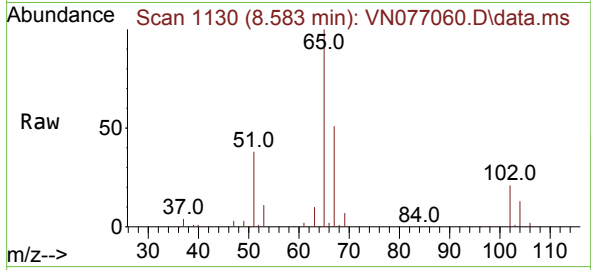




#33
 1,2-Dichloroethane-d4
 Concen: 46.577 ug/l
 RT: 8.583 min Scan# 1130
 Delta R.T. 0.000 min
 Lab File: VN077060.D
 Acq: 20 Mar 2023 11:03

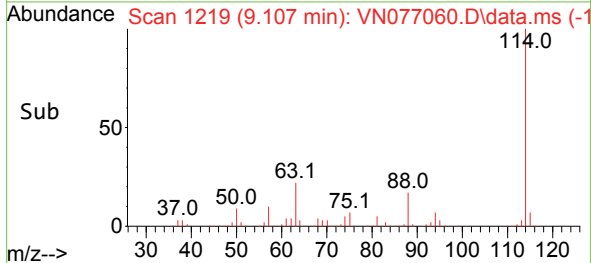
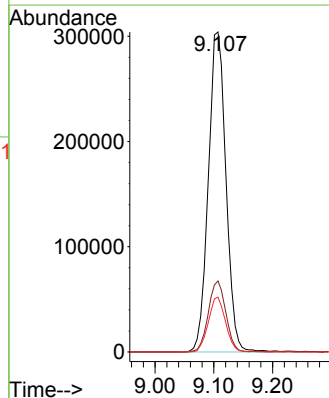
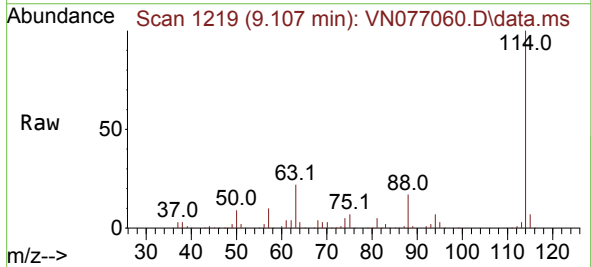
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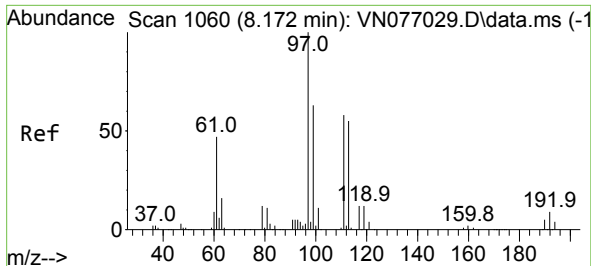
Tgt Ion: 65 Resp: 265444
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.107 min Scan# 1219
 Delta R.T. -0.000 min
 Lab File: VN077060.D
 Acq: 20 Mar 2023 11:03

Tgt Ion: 114 Resp: 635574
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.6
 88 17.1 0.0 33.8

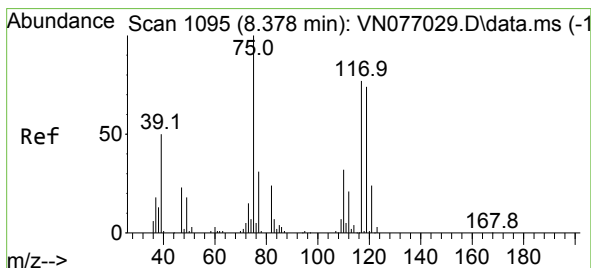
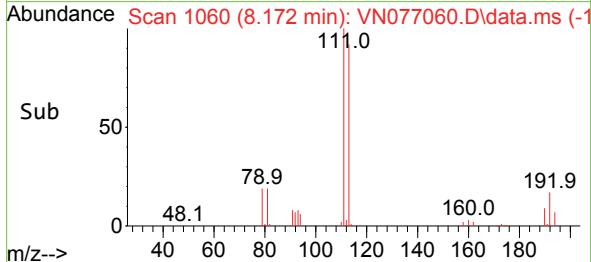
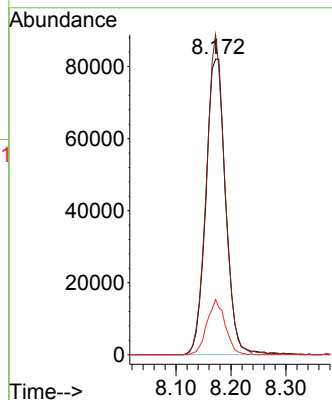
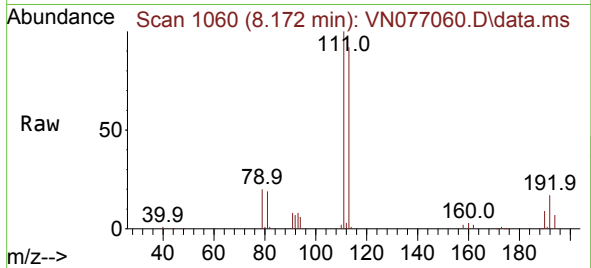




#35
Dibromofluoromethane
Concen: 46.110 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

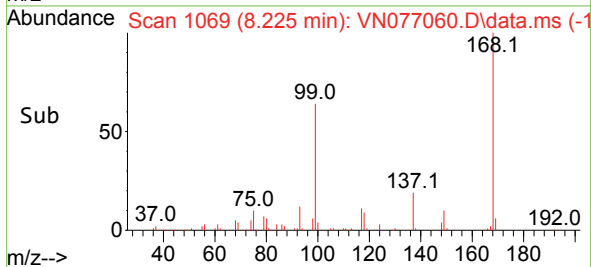
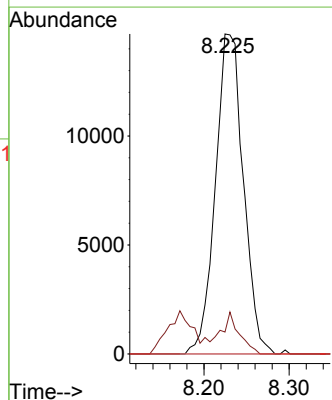
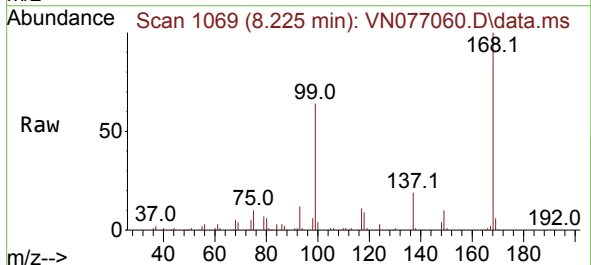
Instrument :
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ClientSampleId :
VN0320MBL01

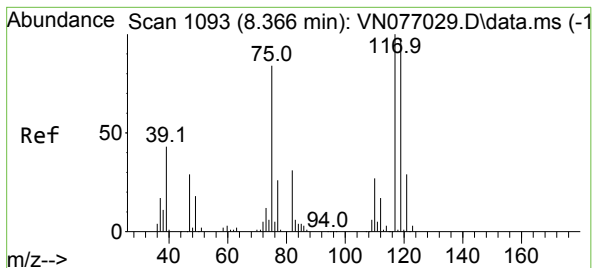
Tgt Ion:113 Resp: 205238
Ion Ratio Lower Upper
113 100
111 101.5 82.2 123.2
192 17.2 13.0 19.6



#36
1,1-Dichloropropene
Concen: 4.817 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.153 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

Tgt Ion: 75 Resp: 33485
Ion Ratio Lower Upper
75 100
110 8.5 15.9 47.7#
77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.801 ug/l

RT: 8.231 min Scan# 1093

Delta R.T. -0.135 min

Lab File: VN077060.D

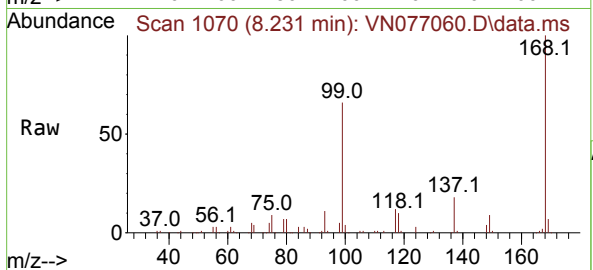
Acq: 20 Mar 2023 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBL01



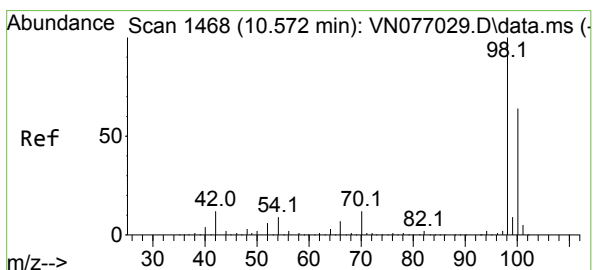
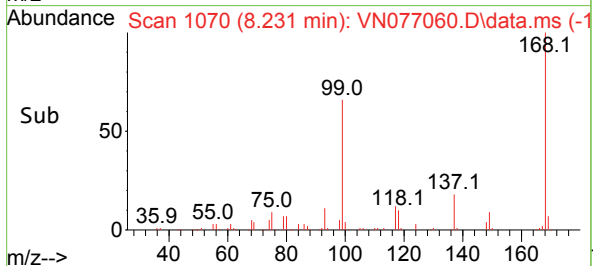
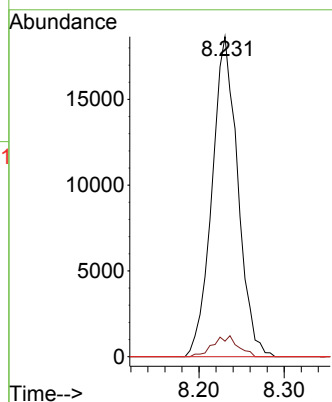
Tgt Ion:117 Resp: 39279

Ion Ratio Lower Upper

117 100

119 4.9 78.2 117.2#

121 0.0 23.2 34.8#



#50

Toluene-d8

Concen: 48.169 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077060.D

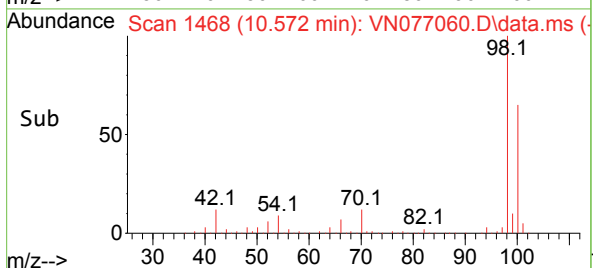
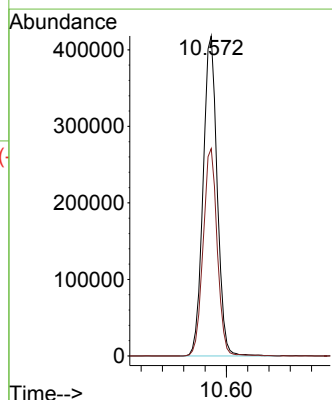
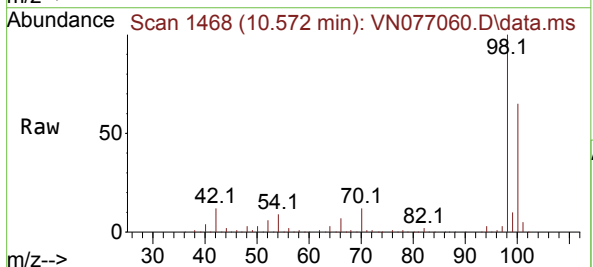
Acq: 20 Mar 2023 11:03

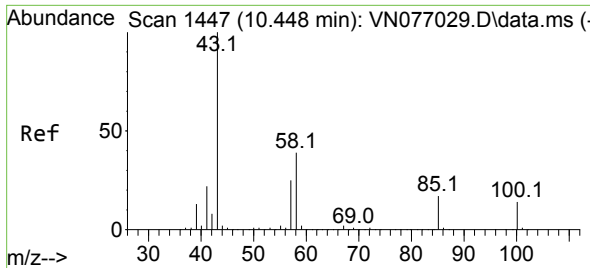
Tgt Ion: 98 Resp: 765859

Ion Ratio Lower Upper

98 100

100 64.9 51.6 77.4

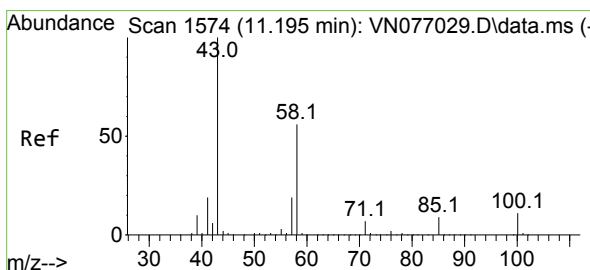
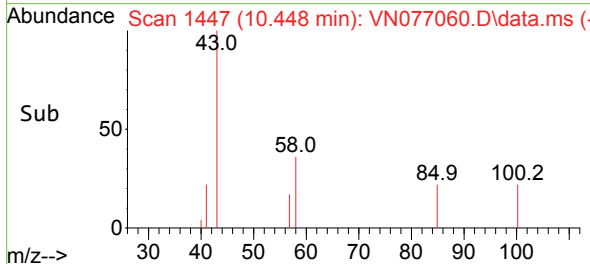
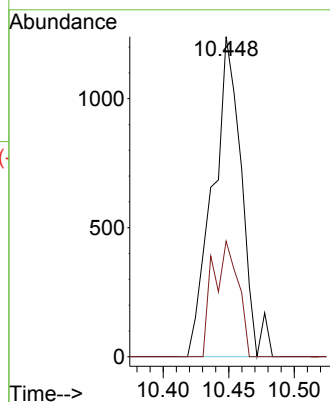
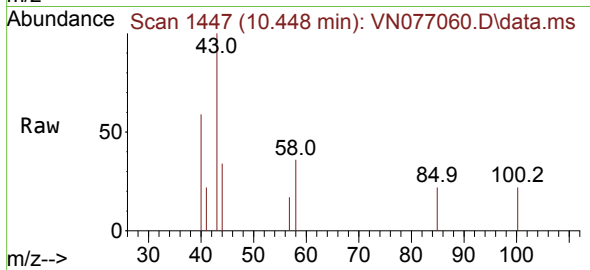




#51
4-Methyl-2-Pentanone
Concen: 0.260 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

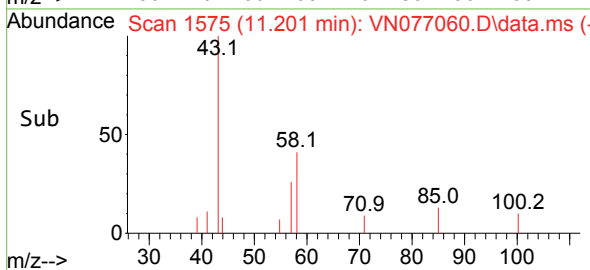
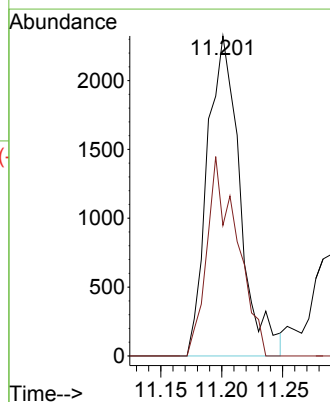
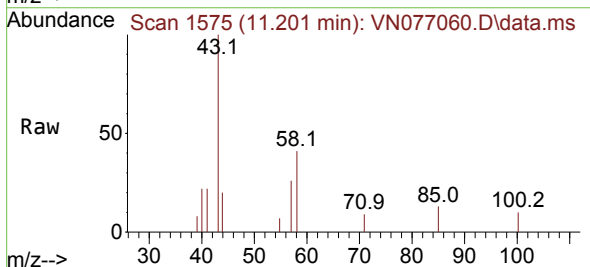
Instrument :
MSVOA_N
ClientSampleId :
VN0320MBL01

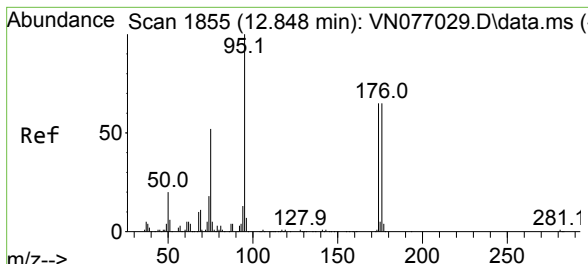
Tgt Ion: 43 Resp: 1881
Ion Ratio Lower Upper
43 100
58 31.5 31.1 46.7



#59
2-Hexanone
Concen: 0.830 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.006 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

Tgt Ion: 43 Resp: 4355
Ion Ratio Lower Upper
43 100
58 57.5 27.7 83.1

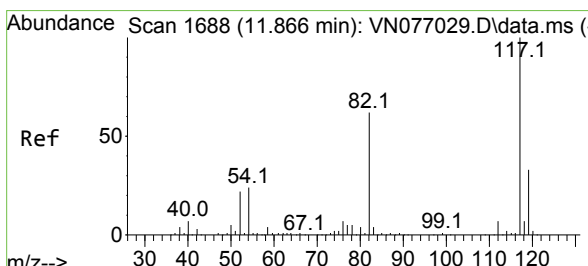
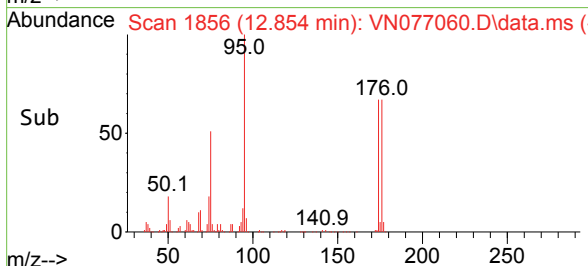
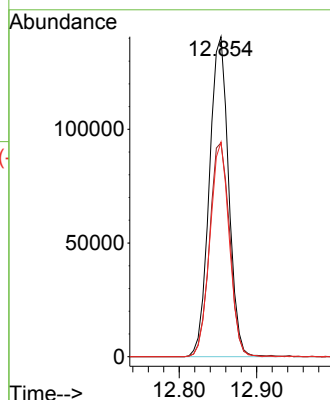
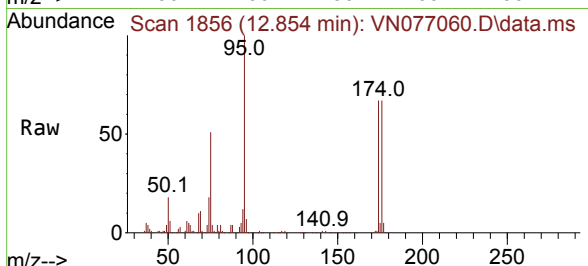




#62
4-Bromofluorobenzene
Concen: 43.273 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

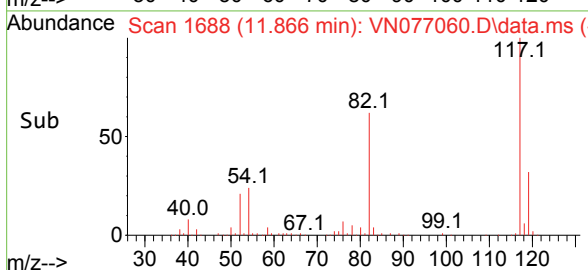
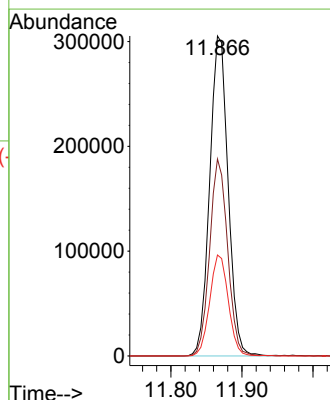
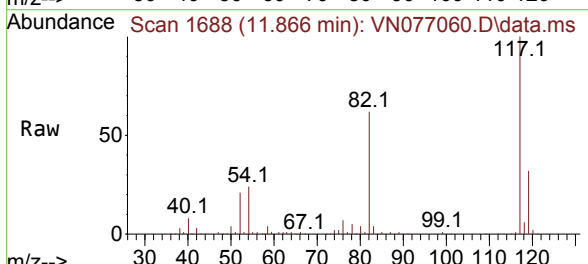
Instrument :
MSVOA_N
ClientSampleId :
VN0320MBL01

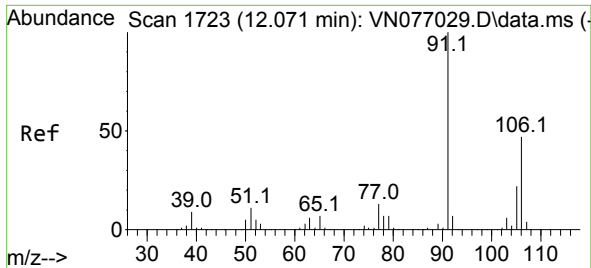
Tgt Ion: 95 Resp: 243122
Ion Ratio Lower Upper
95 100
174 69.4 0.0 136.6
176 67.2 0.0 130.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

Tgt Ion: 117 Resp: 548413
Ion Ratio Lower Upper
117 100
82 61.5 49.4 74.0
119 31.6 26.5 39.7

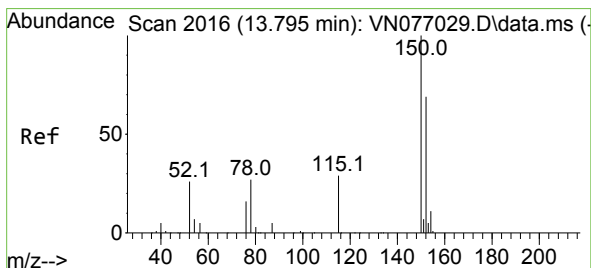
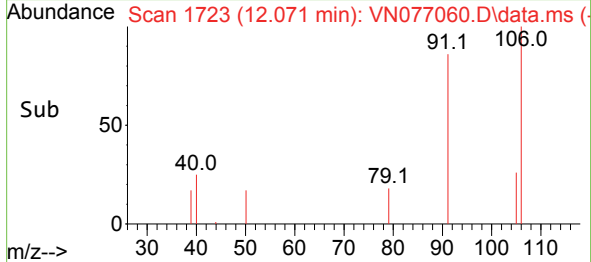
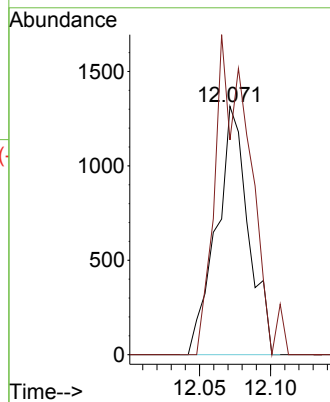
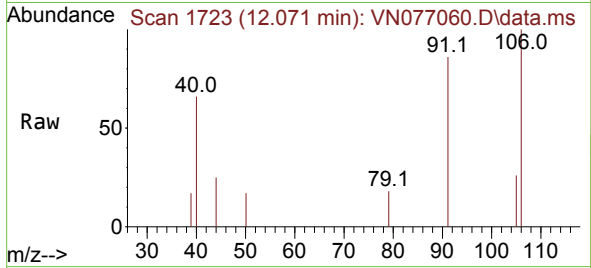




#68
m/p-Xylenes
Concen: 0.242 ug/l
RT: 12.071 min Scan# 1723
Delta R.T. -0.000 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

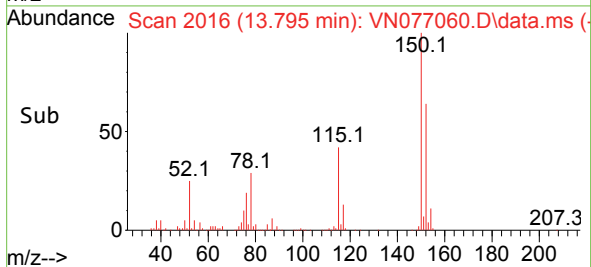
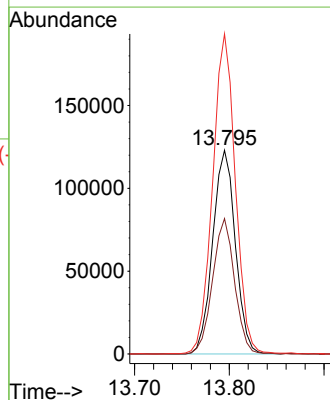
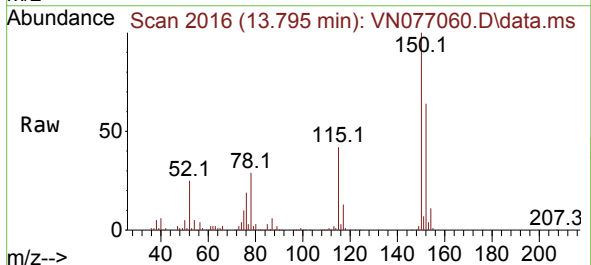
Instrument :
MSVOA_N
ClientSampleId :
VN0320MBL01

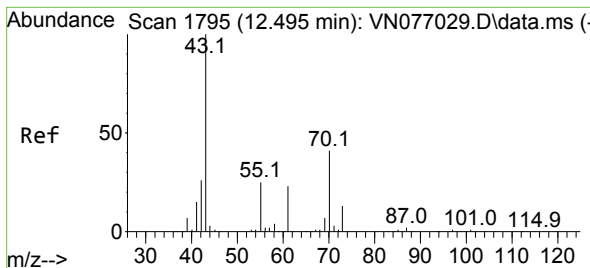
Tgt Ion:106 Resp: 2056
Ion Ratio Lower Upper
106 100
91 139.7 168.0 252.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

Tgt Ion:152 Resp: 204613
Ion Ratio Lower Upper
152 100
115 64.5 31.9 95.7
150 157.5 0.0 348.0





#74

N-amy1 acetate

Concen: 0.261 ug/l

RT: 12.501 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN077060.D

Acq: 20 Mar 2023 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBL01

Tgt Ion: 43 Resp: 2068

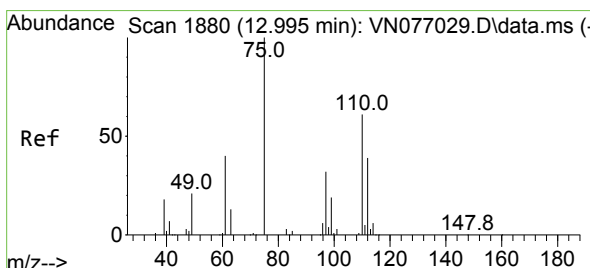
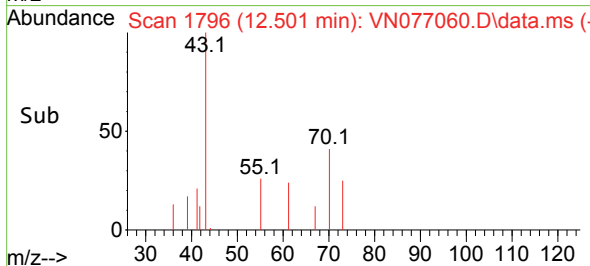
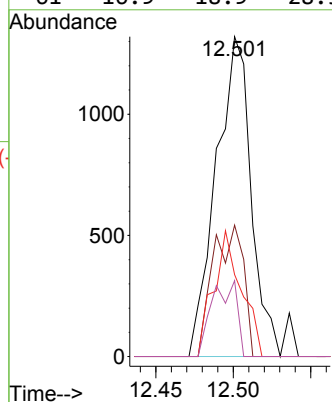
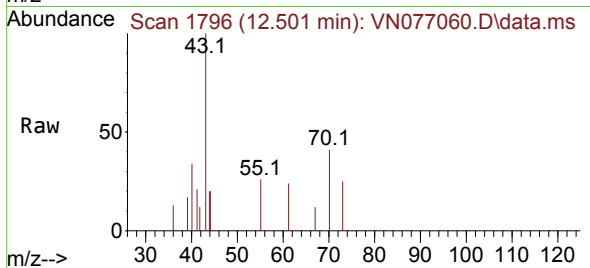
Ion Ratio Lower Upper

43 100

70 35.7 33.6 50.4

55 31.2 20.3 30.5#

61 16.9 18.9 28.3#



#76

1,2,3-Trichloropropane

Concen: 24.286 ug/l

RT: 12.848 min Scan# 1855

Delta R.T. -0.147 min

Lab File: VN077060.D

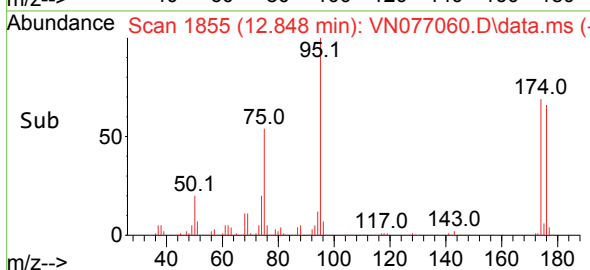
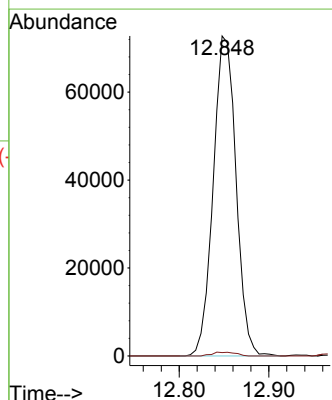
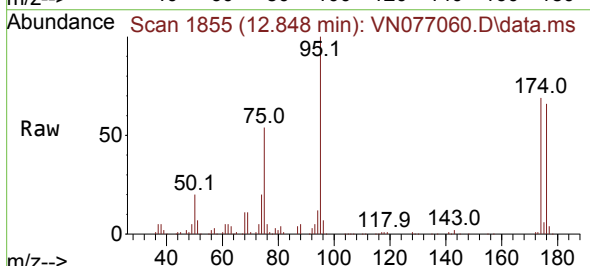
Acq: 20 Mar 2023 11:03

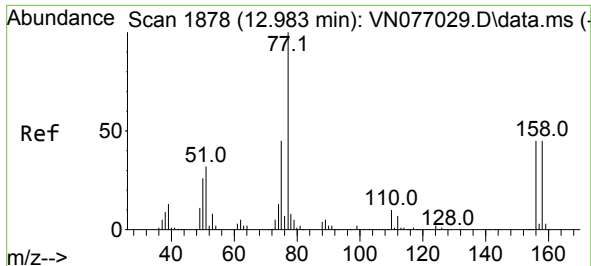
Tgt Ion: 75 Resp: 128537

Ion Ratio Lower Upper

75 100

77 1.2 107.3 322.0#

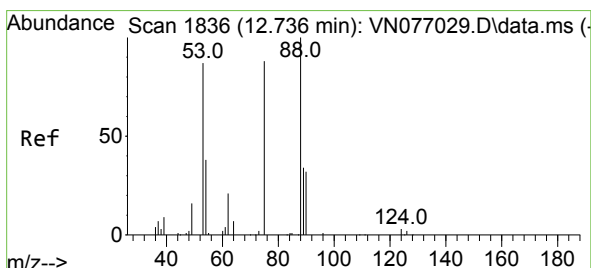
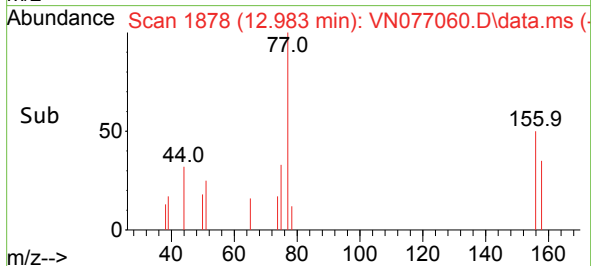
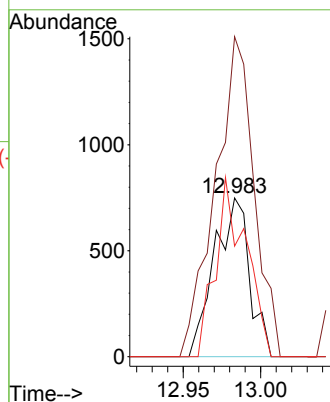
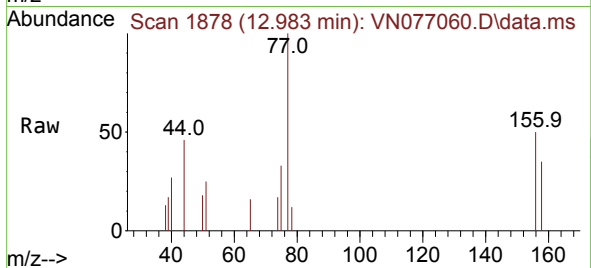




#77
Bromobenzene
Concen: 0.287 ug/l
RT: 12.983 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

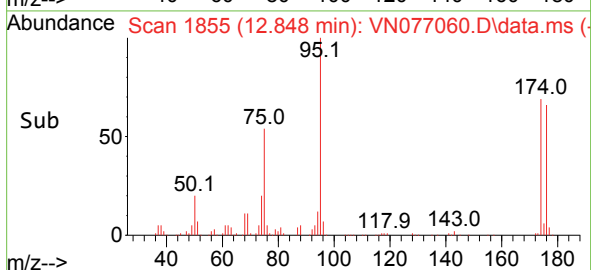
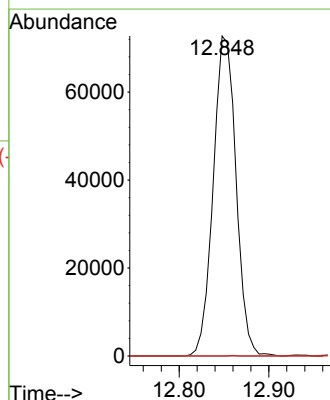
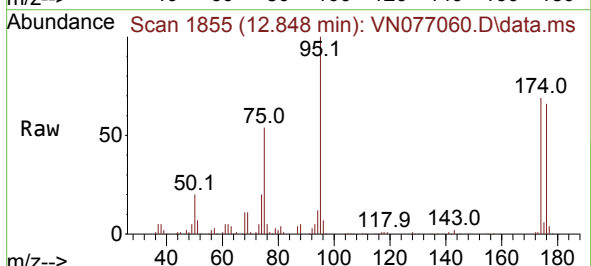
Instrument :
MSVOA_N
ClientSampleId :
VN0320MBL01

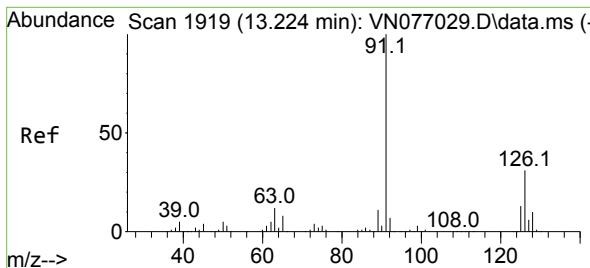
Tgt Ion:156 Resp: 1180
Ion Ratio Lower Upper
156 100
77 222.5 124.8 374.3
158 98.4 48.6 145.9



#81
trans-1,4-Dichloro-2-butene
Concen: 66.849 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.112 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

Tgt Ion: 75 Resp: 128537
Ion Ratio Lower Upper
75 100
53 0.0 80.8 121.2#
89 0.0 34.2 51.4#

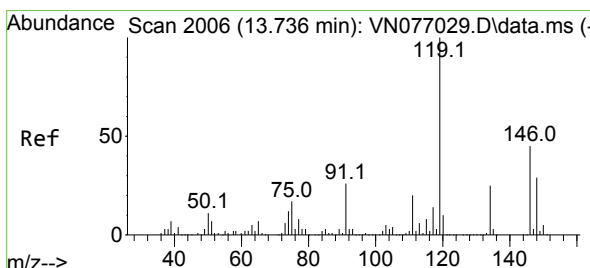
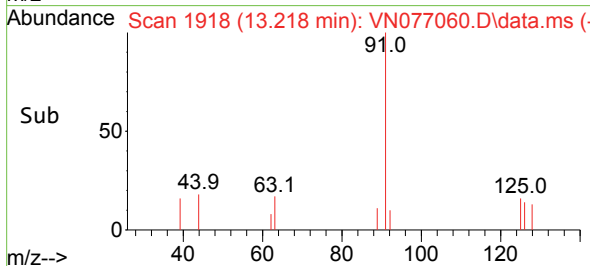
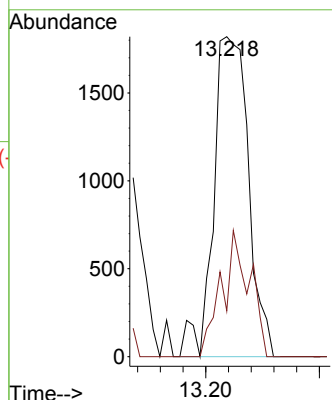
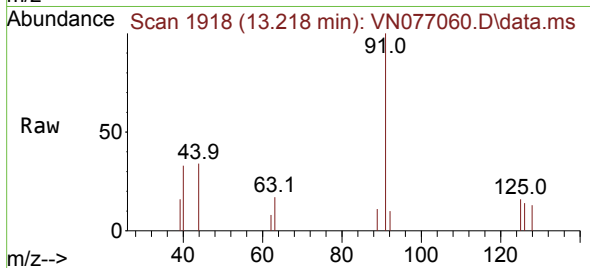




#82
4-Chlorotoluene
Concen: 0.302 ug/l
RT: 13.218 min Scan# 1919
Delta R.T. -0.006 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

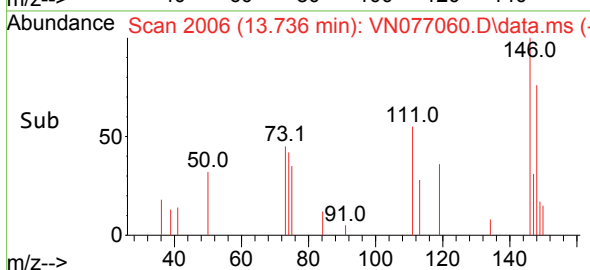
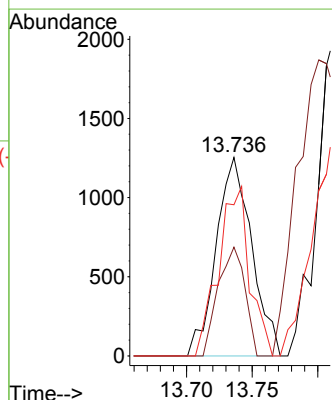
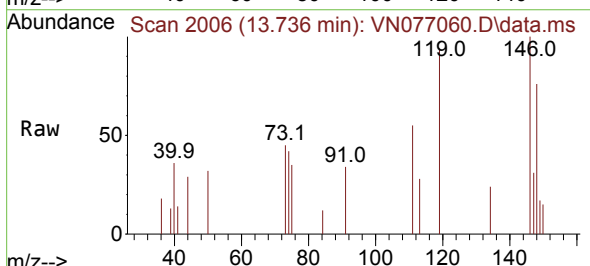
Instrument :
MSVOA_N
ClientSampleId :
VN0320MBL01

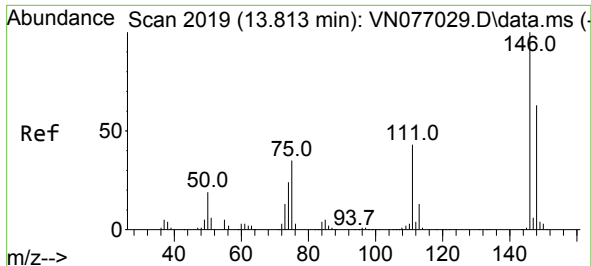
Tgt Ion: 91 Resp: 3878
Ion Ratio Lower Upper
91 100
126 31.5 15.5 46.5



#87
1,3-Dichlorobenzene
Concen: 0.304 ug/l
RT: 13.736 min Scan# 2006
Delta R.T. -0.000 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

Tgt Ion: 146 Resp: 2363
Ion Ratio Lower Upper
146 100
111 41.3 21.9 65.5
148 74.7 32.1 96.5

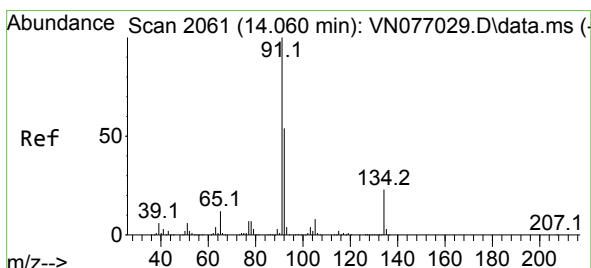
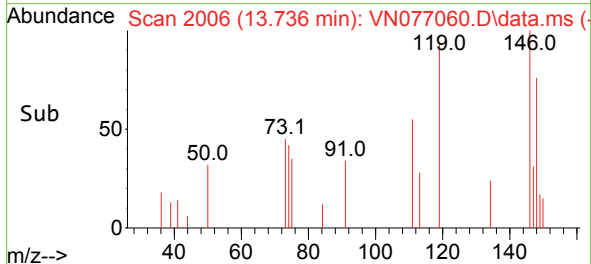
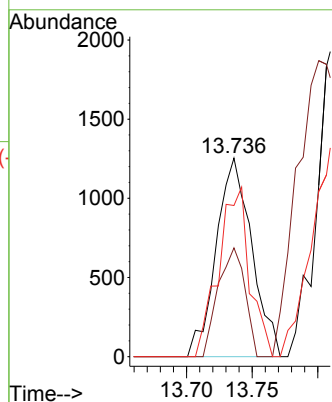
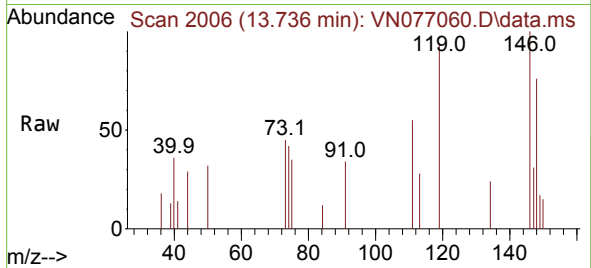




#88
1,4-Dichlorobenzene
Concen: 0.306 ug/l
RT: 13.736 min Scan# 2060
Delta R.T. -0.077 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

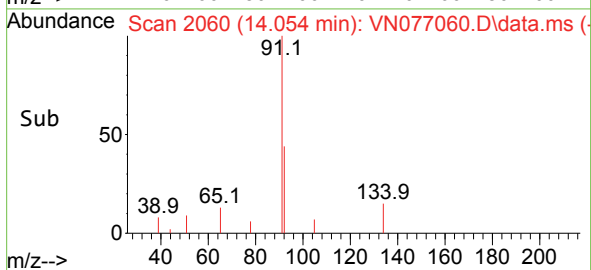
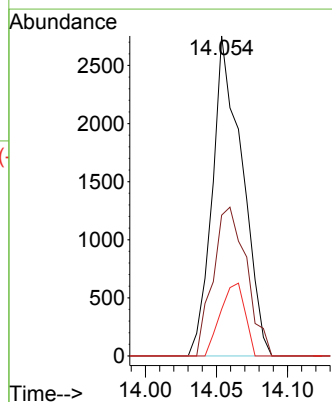
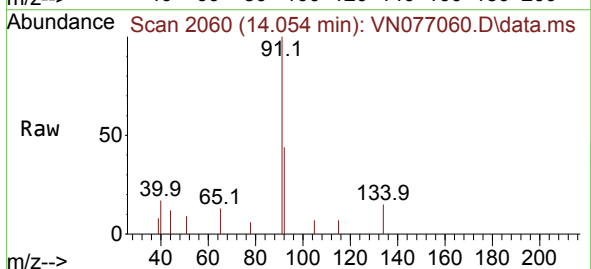
Instrument :
MSVOA_N
ClientSampleId :
VN0320MBL01

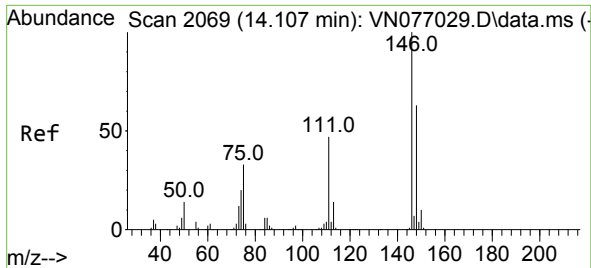
Tgt Ion:146 Resp: 2363
Ion Ratio Lower Upper
146 100
111 41.3 21.5 64.5
148 74.7 31.9 95.9



#89
n-Butylbenzene
Concen: 0.311 ug/l
RT: 14.054 min Scan# 2060
Delta R.T. -0.006 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

Tgt Ion: 91 Resp: 4010
Ion Ratio Lower Upper
91 100
92 52.2 26.5 79.5
134 18.7 11.7 35.1

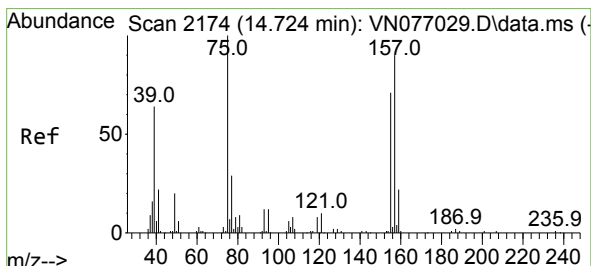
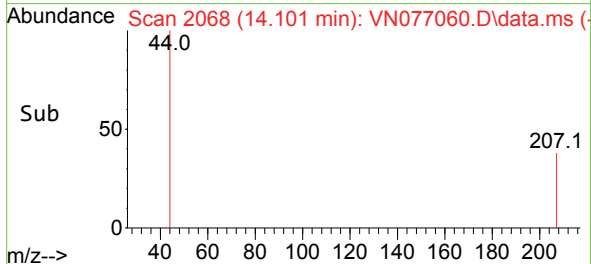
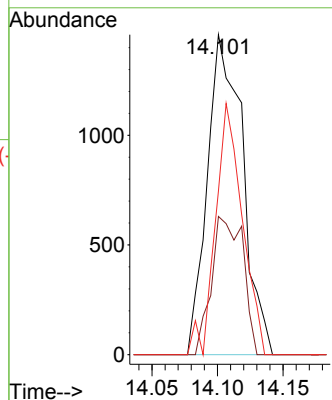
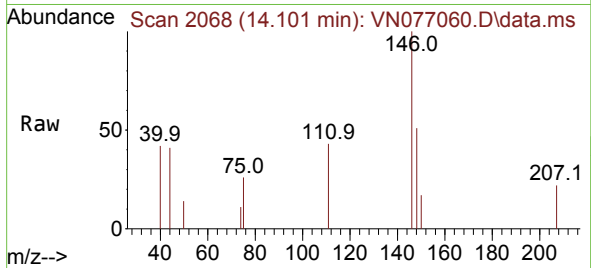




#91
1,2-Dichlorobenzene
Concen: 0.352 ug/l
RT: 14.101 min Scan# 2068
Delta R.T. -0.006 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

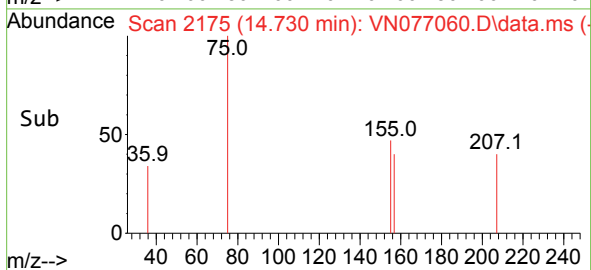
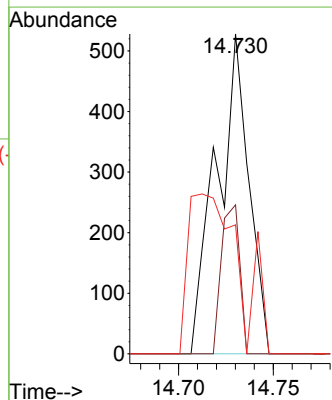
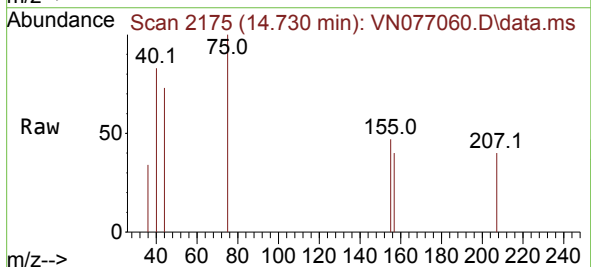
Instrument :
MSVOA_N
ClientSampleId :
VN0320MBL01

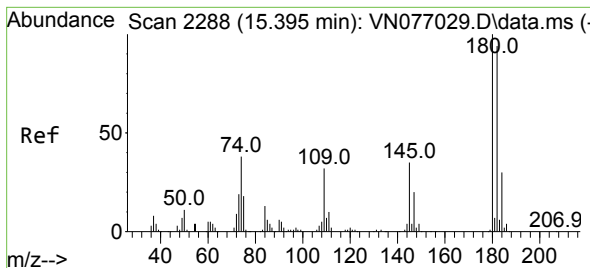
Tgt Ion:146 Resp: 2726
Ion Ratio Lower Upper
146 100
111 38.5 22.6 67.7
148 59.8 31.6 95.0



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.504 ug/l
RT: 14.730 min Scan# 2175
Delta R.T. 0.006 min
Lab File: VN077060.D
Acq: 20 Mar 2023 11:03

Tgt Ion: 75 Resp: 621
Ion Ratio Lower Upper
75 100
155 26.7 36.1 108.3#
157 79.7 45.8 137.3





#93

1,2,4-Trichlorobenzene

Concen: 1.077 ug/l

RT: 15.395 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN077060.D

Acq: 20 Mar 2023 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBL01

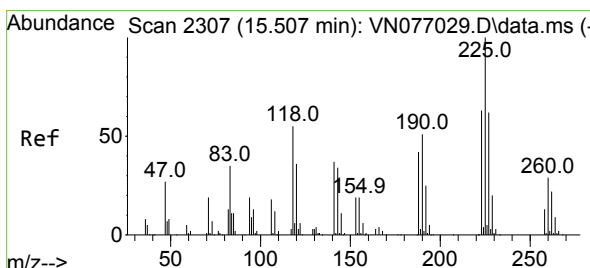
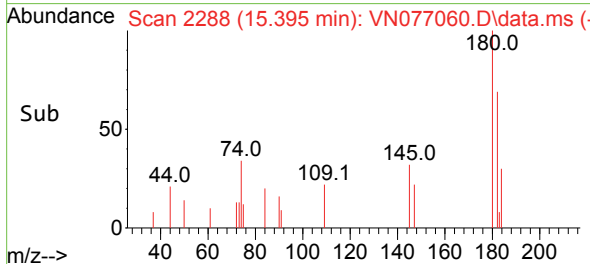
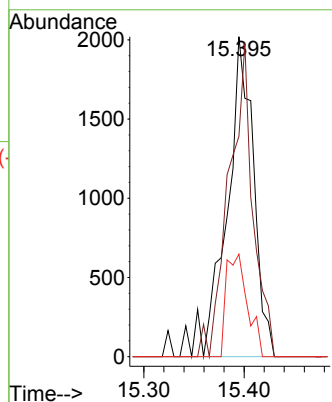
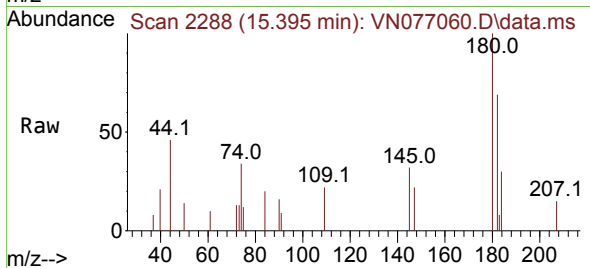
Tgt Ion:180 Resp: 3766

Ion Ratio Lower Upper

180 100

182 87.4 47.3 141.9

145 25.2 16.9 50.7



#94

Hexachlorobutadiene

Concen: 0.220 ug/l

RT: 15.501 min Scan# 2306

Delta R.T. -0.006 min

Lab File: VN077060.D

Acq: 20 Mar 2023 11:03

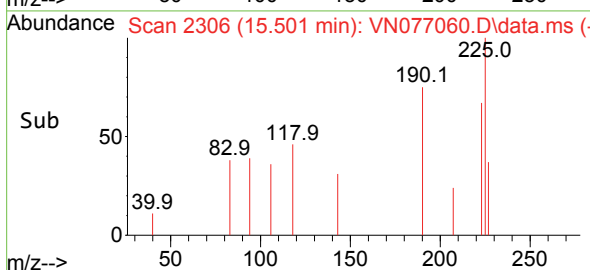
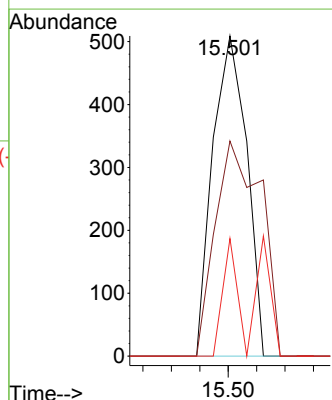
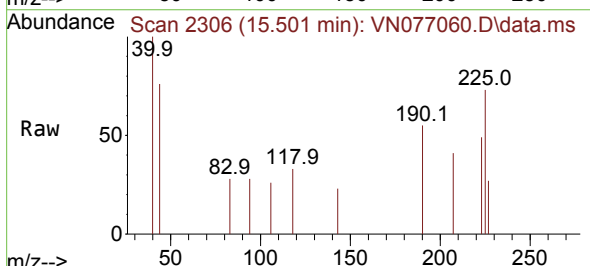
Tgt Ion:225 Resp: 423

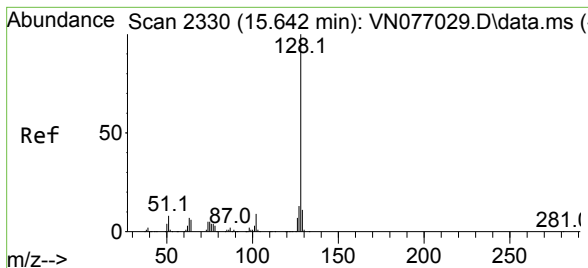
Ion Ratio Lower Upper

225 100

223 90.3 31.6 95.0

227 31.4 31.3 93.8





#95

Naphthalene

Concen: 3.036 ug/l

RT: 15.642 min Scan# 2330

Delta R.T. -0.000 min

Lab File: VN077060.D

Acq: 20 Mar 2023 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBL01

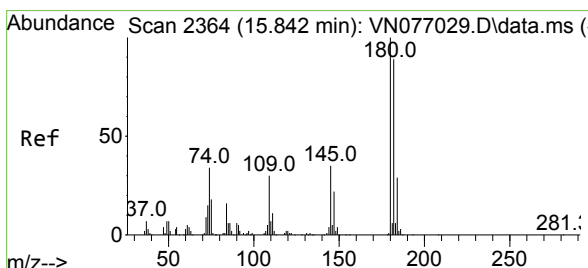
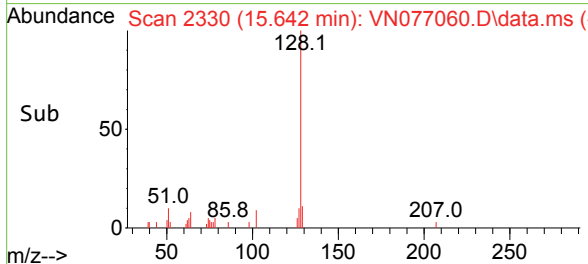
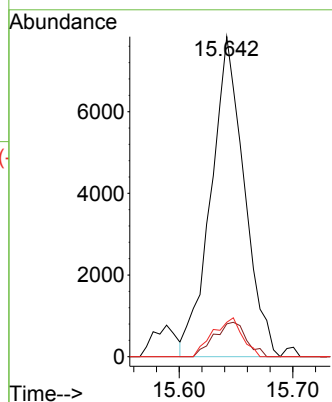
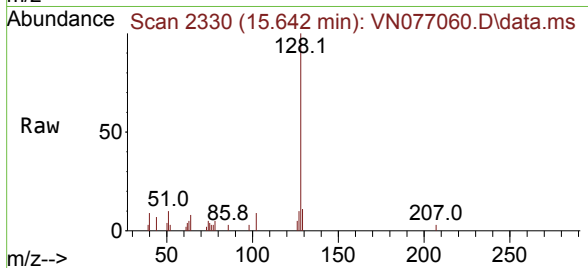
Tgt Ion:128 Resp: 15883

Ion Ratio Lower Upper

128 100

127 10.5 10.0 15.0

129 10.8 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 1.280 ug/l

RT: 15.842 min Scan# 2364

Delta R.T. -0.000 min

Lab File: VN077060.D

Acq: 20 Mar 2023 11:03

Tgt Ion:180 Resp: 4493

Ion Ratio Lower Upper

180 100

182 100.3 47.4 142.2

145 32.7 17.9 53.8

