

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052223\
 Data File : VN077779.D
 Acq On : 22 May 2023 10:56
 Operator : JC\MD
 Sample : VN0522MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522MBL01

Quant Time: May 23 04:17:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

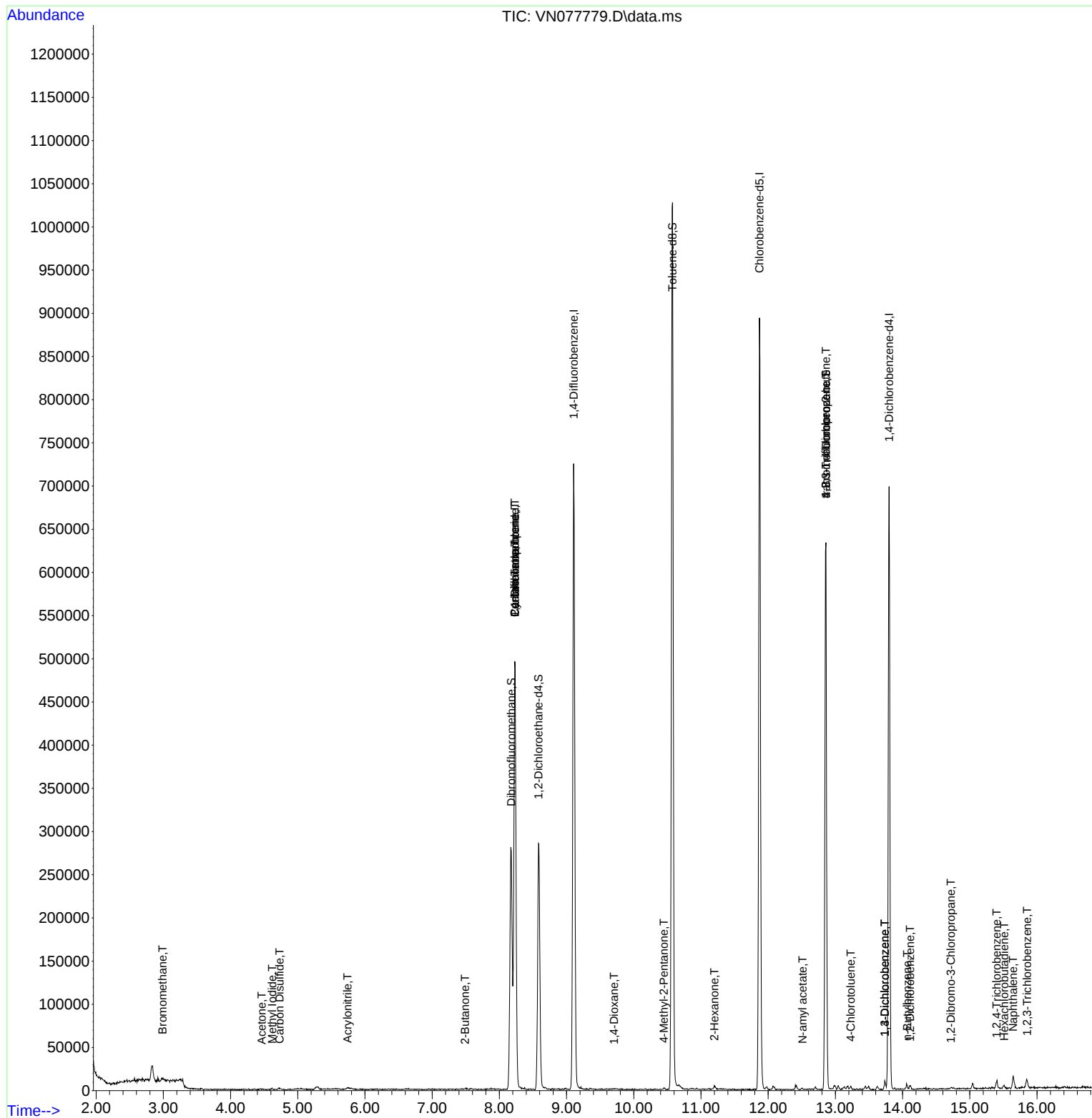
Internal Standards						
1) Pentafluorobenzene	8.230	168	358195	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	633835	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	544658	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	185482	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	234744	43.799	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	87.600%		
35) Dibromofluoromethane	8.177	113	207024	50.088	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.180%		
50) Toluene-d8	10.576	98	756874	47.576	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.160%		
62) 4-Bromofluorobenzene	12.859	95	232639	41.405	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	82.800%#		
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	961	Below Cal		99
5) Bromomethane	2.989	94	2435	0.641 ug/l #		78
10) Methyl Iodide	4.618	142	2041	0.432 ug/l #		78
13) Acrolein	4.195	56	595	Below Cal #		33
15) Acrylonitrile	5.742	53	1753	0.887 ug/l #		87
16) Acetone	4.465	43	1610	0.955 ug/l #		40
17) Carbon Disulfide	4.730	76	4140	0.408 ug/l #		75
20) Methylene Chloride	5.289	84	1734	Below Cal #		76
25) 2-Butanone	7.488	43	625	0.237 ug/l #		37
31) Cyclohexane	8.230	56	8482	1.164 ug/l #		32
36) 1,1-Dichloropropene	8.230	75	30159	4.989 ug/l #		48
38) Carbon Tetrachloride	8.230	117	38276	6.270 ug/l #		18
49) 1,4-Dioxane	9.706	88	200	2.538 ug/l #		30
51) 4-Methyl-2-Pentanone	10.447	43	1492	0.285 ug/l #		75
59) 2-Hexanone	11.200	43	2476	0.640 ug/l		94
74) N-amyl acetate	12.512	43	1237	0.209 ug/l #		54
76) 1,2,3-Trichloropropane	12.859	75	118666	25.546 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.859	75	118666	81.659 ug/l #		15
82) 4-Chlorotoluene	13.229	91	2983	0.267 ug/l		90
87) 1,3-Dichlorobenzene	13.735	146	2849	0.422 ug/l		94
88) 1,4-Dichlorobenzene	13.735	146	2849	0.425 ug/l		95
89) n-Butylbenzene	14.070	91	3739	0.306 ug/l		84
91) 1,2-Dichlorobenzene	14.112	146	2252	0.357 ug/l		92
92) 1,2-Dibromo-3-Chloropr...	14.717	75	195	0.205 ug/l #		30
93) 1,2,4-Trichlorobenzene	15.400	180	2993	0.812 ug/l		96
94) Hexachlorobutadiene	15.511	225	610	0.399 ug/l		81
95) Naphthalene	15.647	128	12408	0.979 ug/l #		96
96) 1,2,3-Trichlorobenzene	15.853	180	3897	1.080 ug/l		90

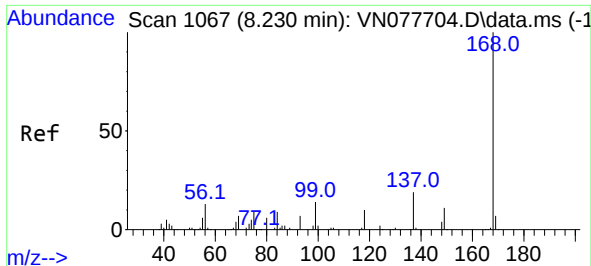
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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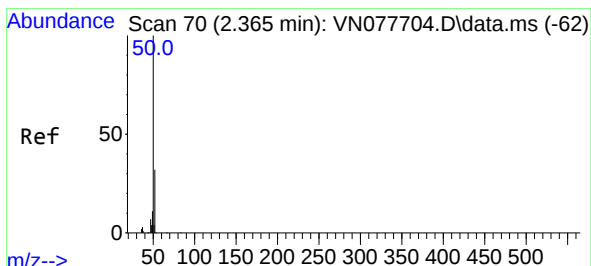
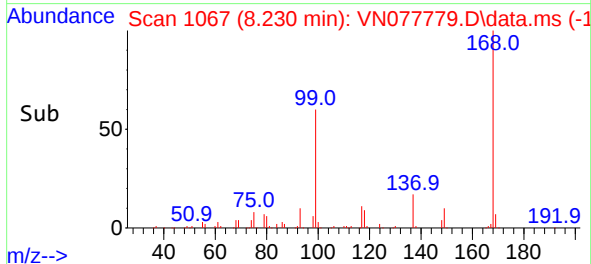
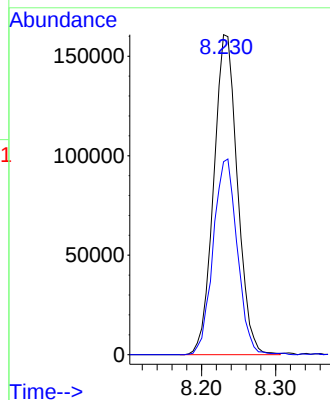
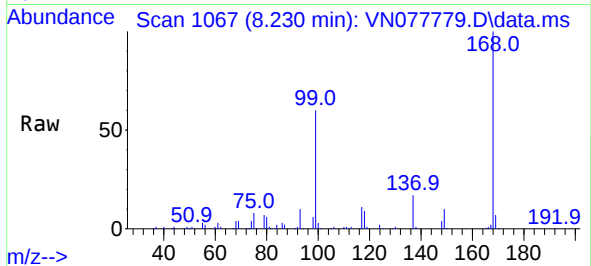




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

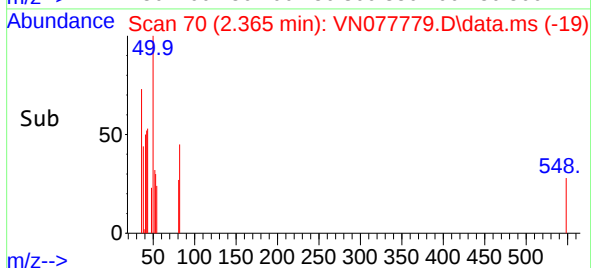
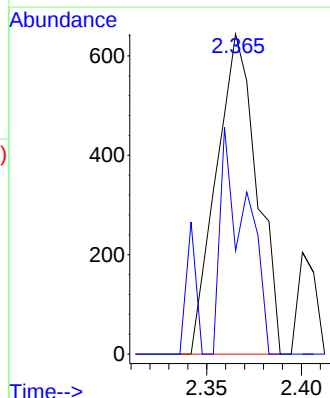
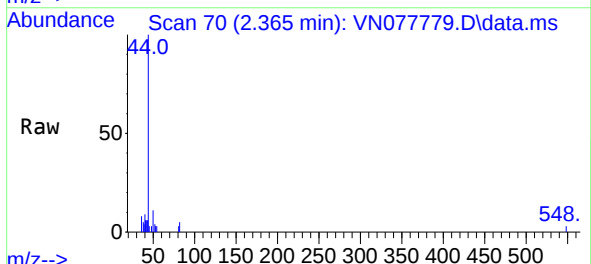
Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

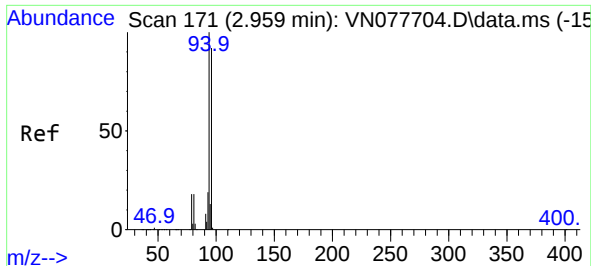
Tgt Ion:168 Resp: 358195
Ion Ratio Lower Upper
168 100
99 60.3 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion: 50 Resp: 961
Ion Ratio Lower Upper
50 100
52 32.3 26.5 39.7

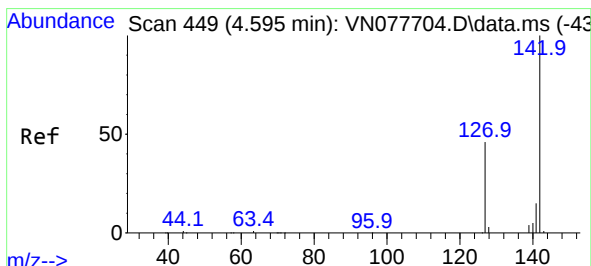
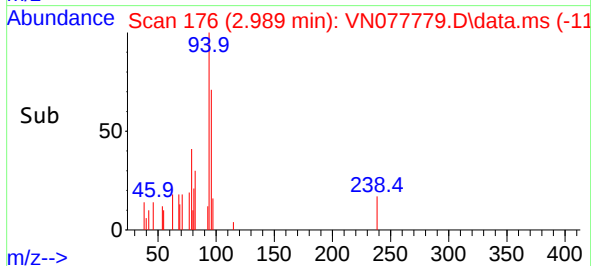
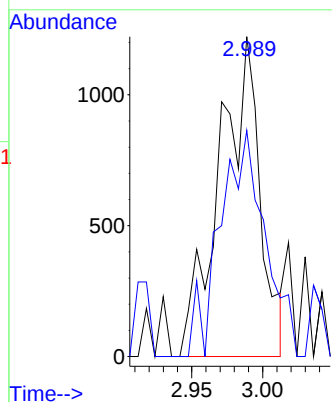
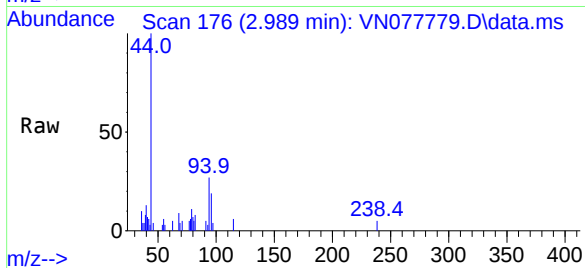




#5
Bromomethane
Concen: 0.641 ug/l
RT: 2.989 min Scan# 11
Delta R.T. 0.042 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

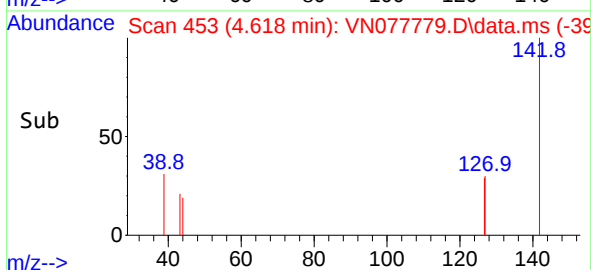
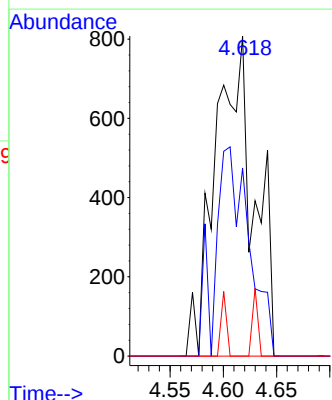
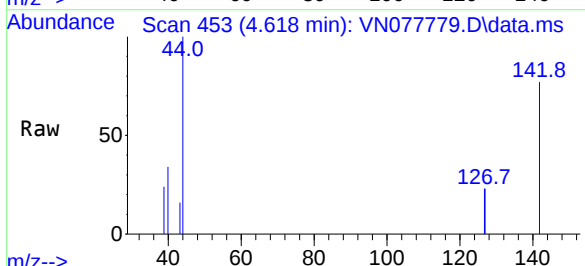
Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

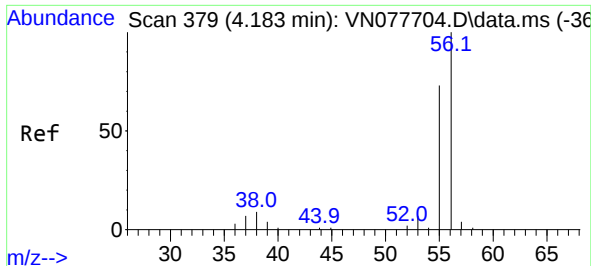
Tgt Ion: 94 Resp: 2435
Ion Ratio Lower Upper
94 100
96 70.7 73.1 109.7#



#10
Methyl Iodide
Concen: 0.432 ug/l
RT: 4.618 min Scan# 453
Delta R.T. 0.024 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion: 142 Resp: 2041
Ion Ratio Lower Upper
142 100
127 58.8 37.6 56.4#
141 0.0 11.4 17.0#

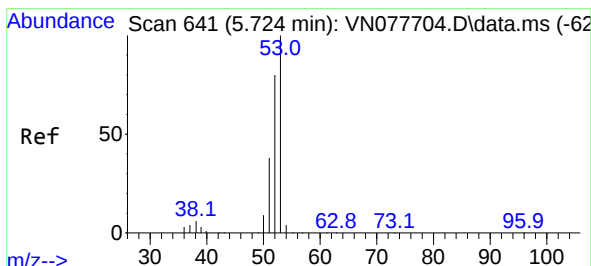
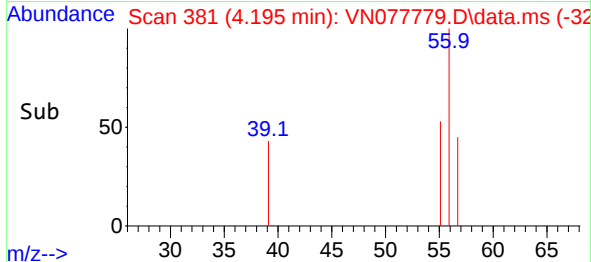
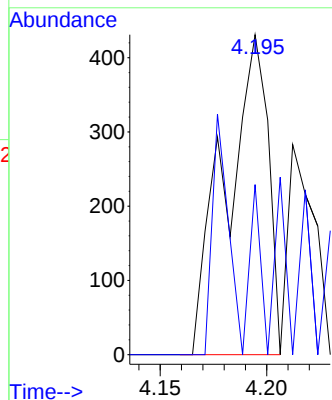
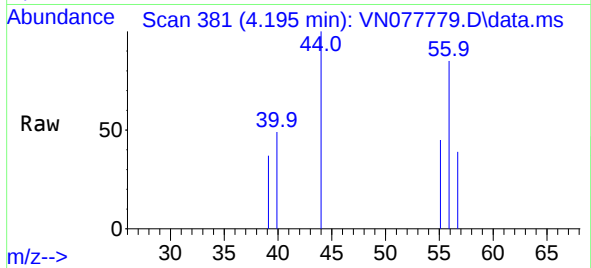




#13
Acrolein
Concen: Below Cal
RT: 4.195 min Scan# 381
Delta R.T. 0.006 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

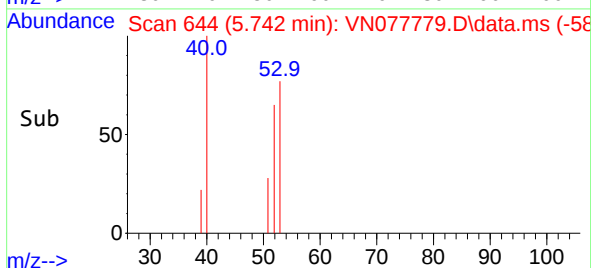
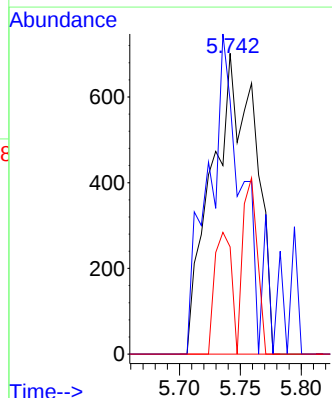
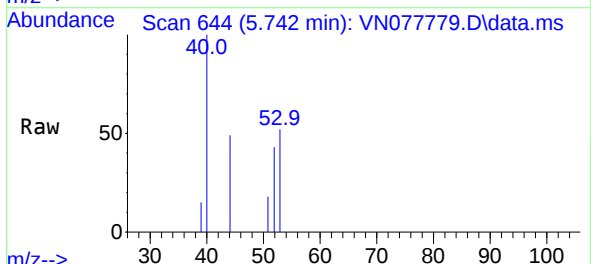
Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

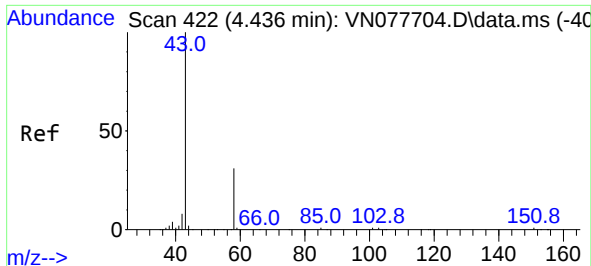
Tgt Ion: 56 Resp: 595
Ion Ratio Lower Upper
56 100
55 13.6 54.5 81.7#



#15
Acrylonitrile
Concen: 0.887 ug/l
RT: 5.742 min Scan# 644
Delta R.T. 0.024 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion: 53 Resp: 1753
Ion Ratio Lower Upper
53 100
52 79.2 65.3 97.9
51 15.5 28.9 43.3#

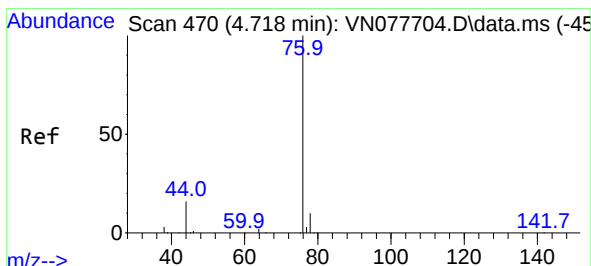
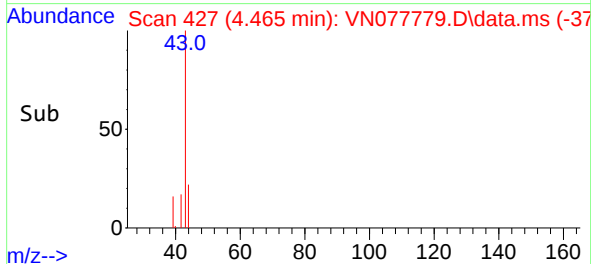
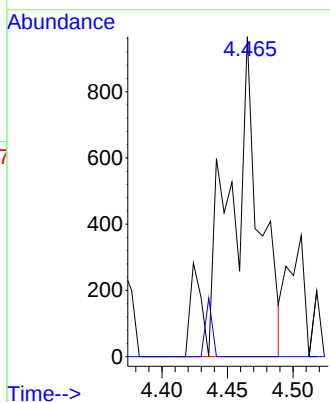
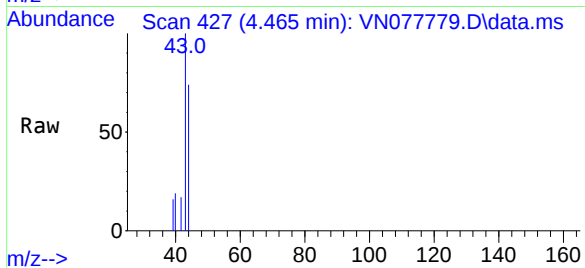




#16
Acetone
Concen: 0.955 ug/l
RT: 4.465 min Scan# 41
Delta R.T. 0.035 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

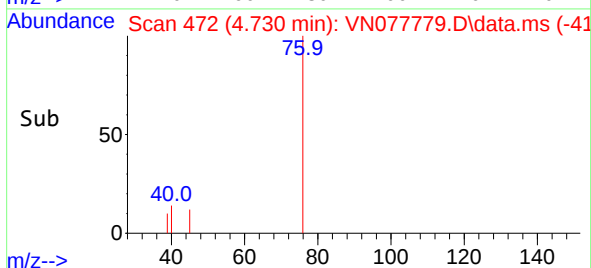
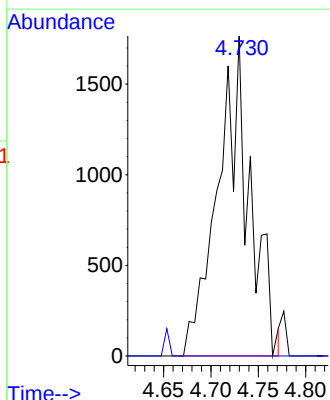
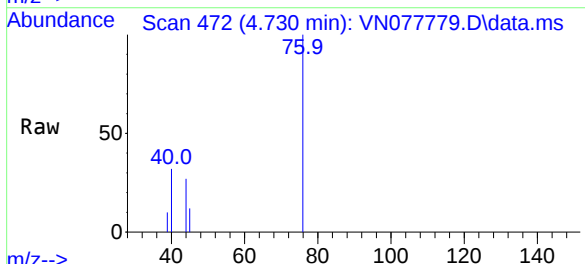
Instrument :
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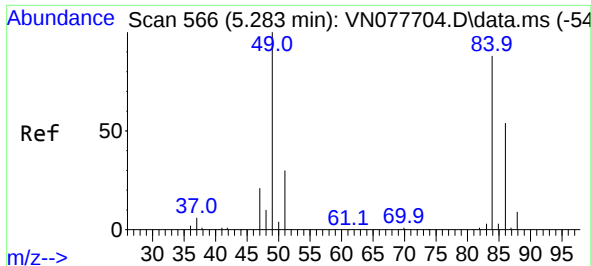
Tgt Ion: 43 Resp: 1610
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.408 ug/l
RT: 4.730 min Scan# 472
Delta R.T. 0.018 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion: 76 Resp: 4140
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



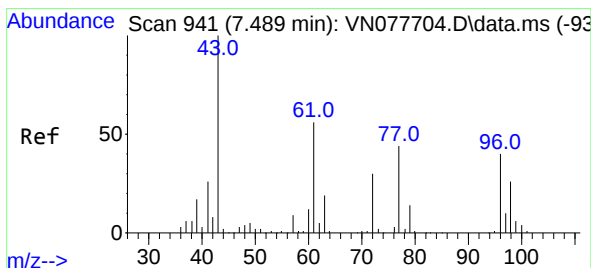
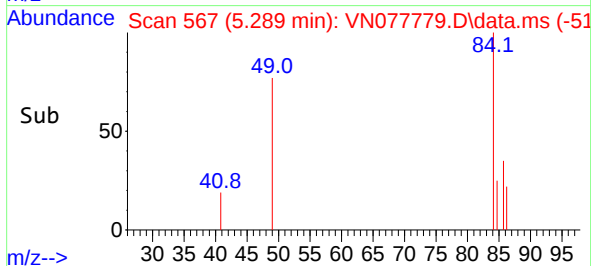
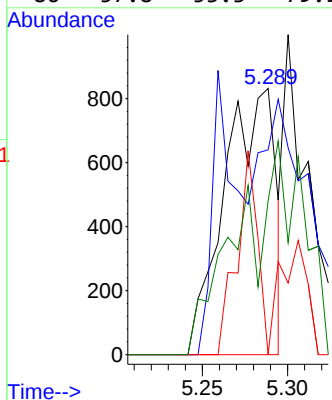
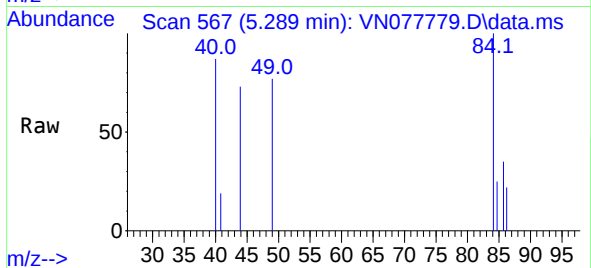


#20
Methylene Chloride
Concen: Below Cal
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

Tgt Ion: 84 Resp: 1734

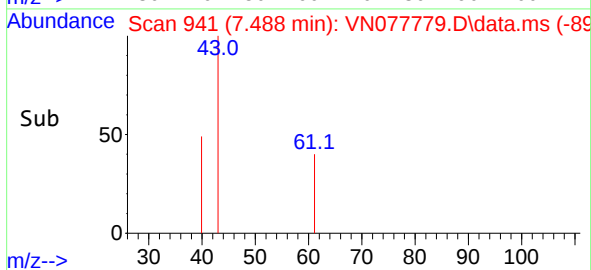
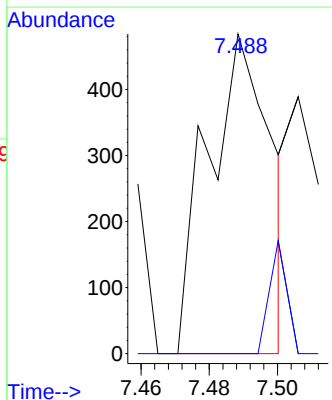
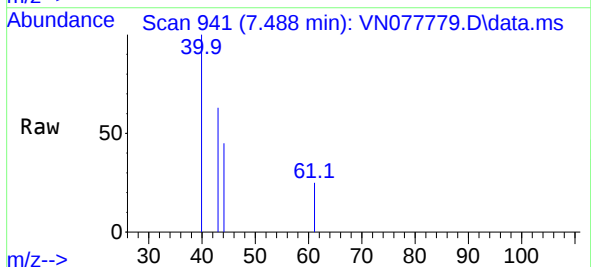
Ion	Ratio	Lower	Upper
84	100		
49	76.9	79.7	119.5#
51	0.0	25.2	37.8#
86	57.8	53.3	79.9

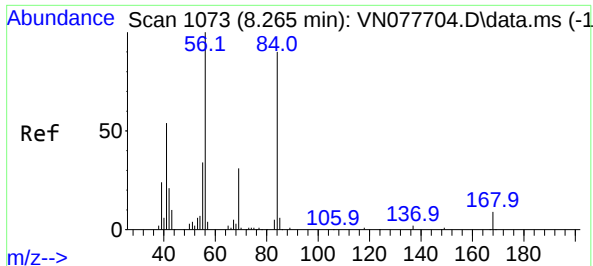


#25
2-Butanone
Concen: 0.237 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion: 43 Resp: 625

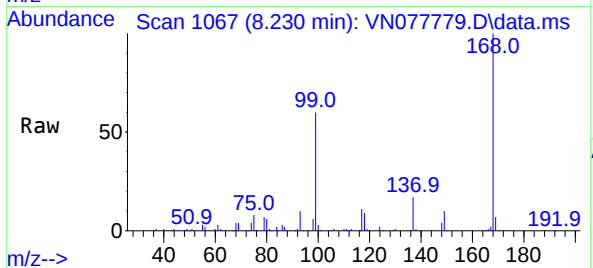
Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.2	45.2#



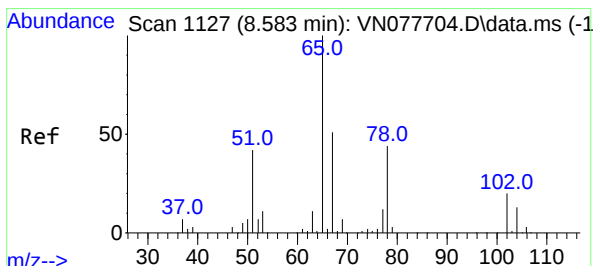
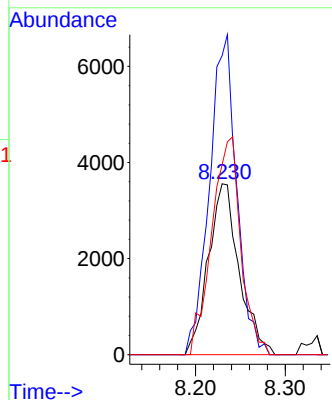
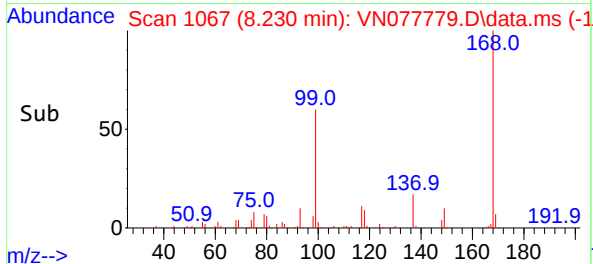


#31
Cyclohexane
Concen: 1.164 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

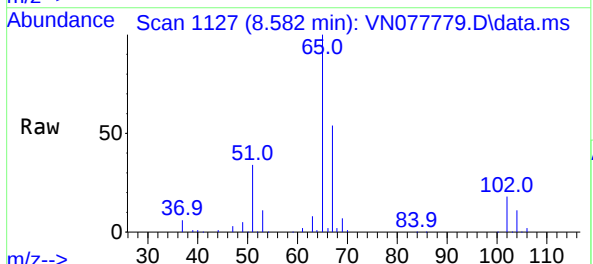
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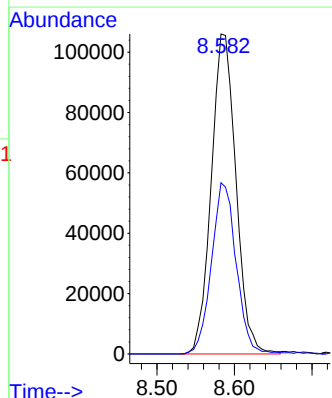
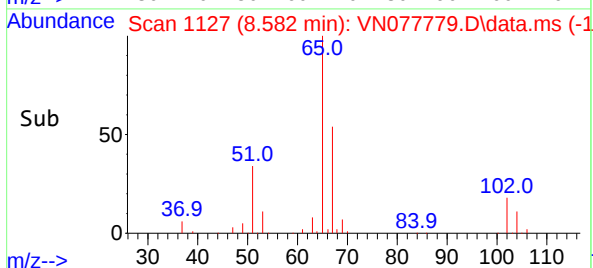
Tgt Ion: 56 Resp: 8482
Ion Ratio Lower Upper
56 100
69 175.0 26.8 40.2#
84 111.2 81.8 122.6

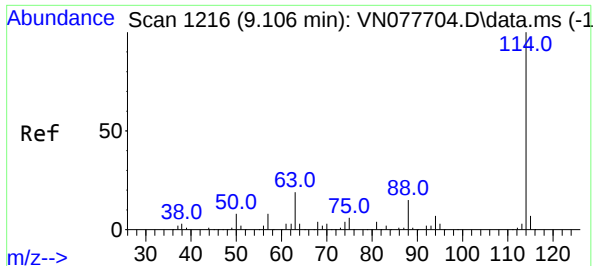


#33
1,2-Dichloroethane-d4
Concen: 43.799 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56



Tgt Ion: 65 Resp: 234744
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.6

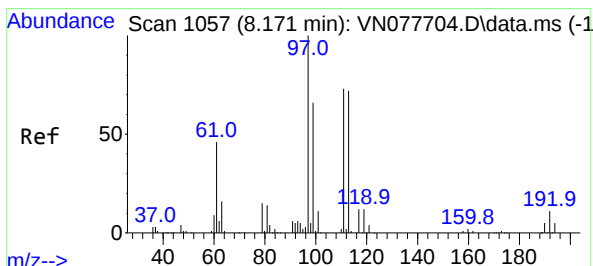
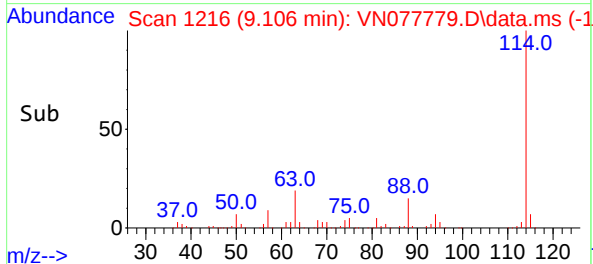
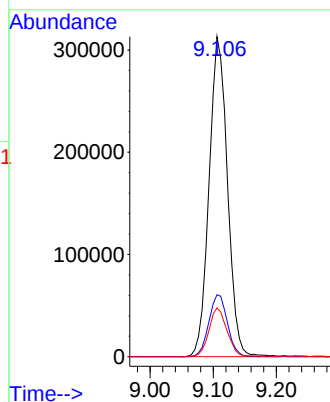
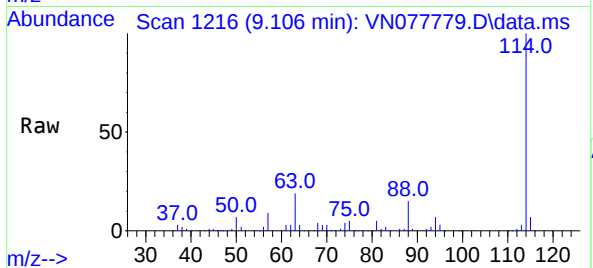




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

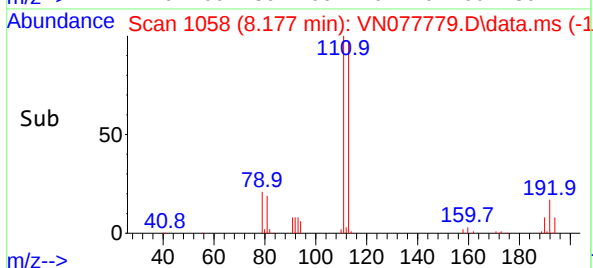
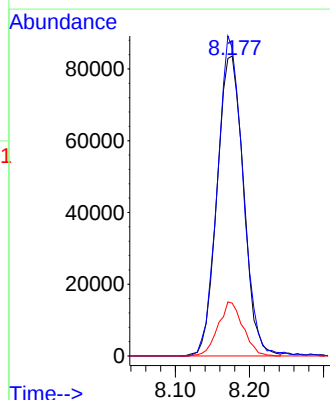
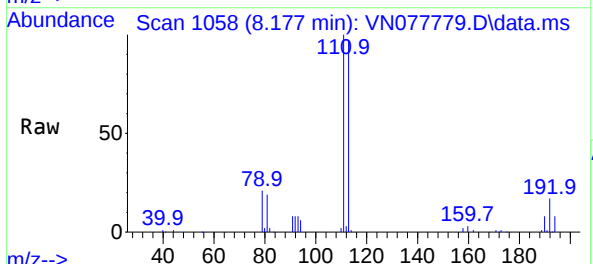
Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

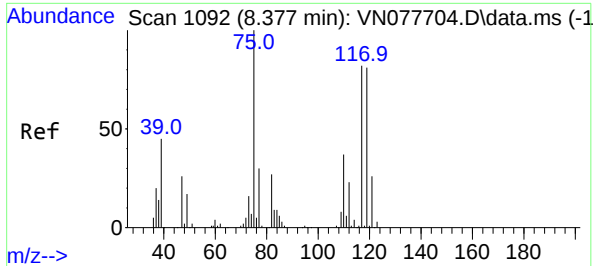
Tgt Ion:114 Resp: 633835
Ion Ratio Lower Upper
114 100
63 19.4 0.0 36.4
88 15.2 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.088 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion:113 Resp: 207024
Ion Ratio Lower Upper
113 100
111 103.2 82.6 123.8
192 17.0 12.7 19.1

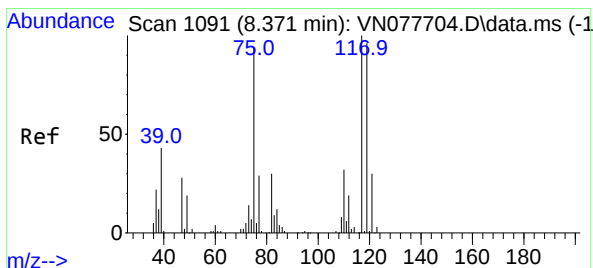
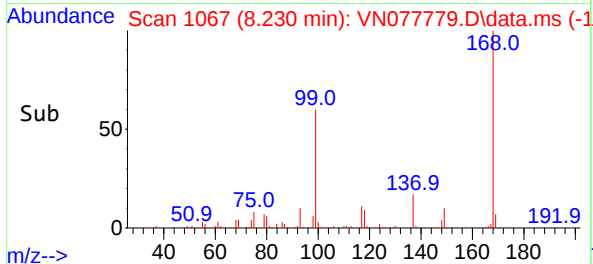
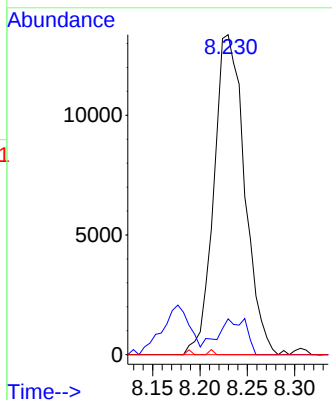
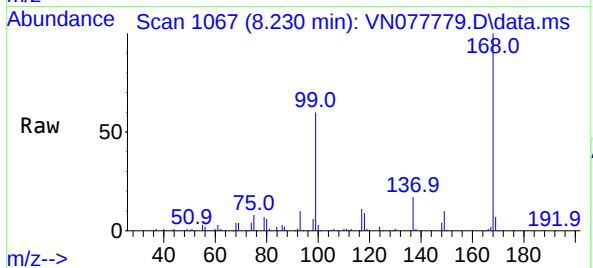




#36
1,1-Dichloropropene
Concen: 4.989 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

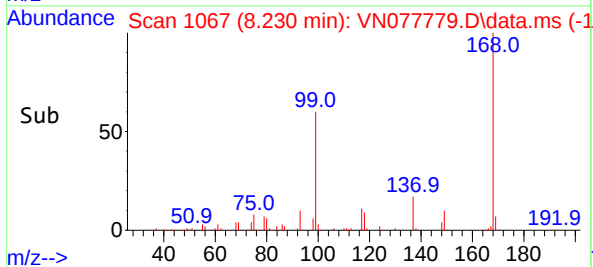
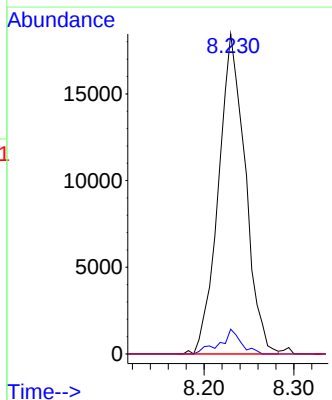
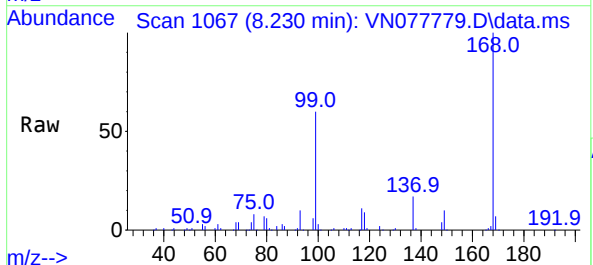
Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

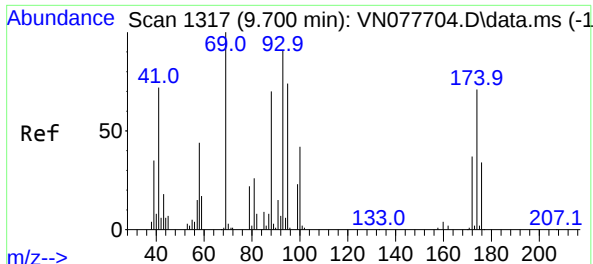
Tgt Ion: 75 Resp: 30159
Ion Ratio Lower Upper
75 100
110 9.2 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 6.270 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion: 117 Resp: 38276
Ion Ratio Lower Upper
117 100
119 7.8 77.3 115.9#
121 0.0 23.3 34.9#

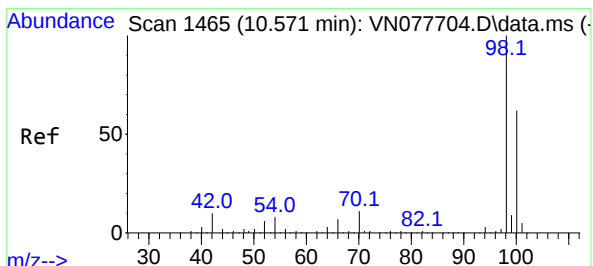
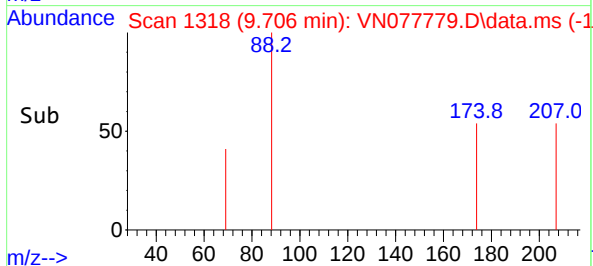
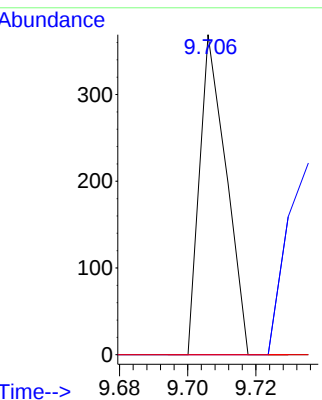
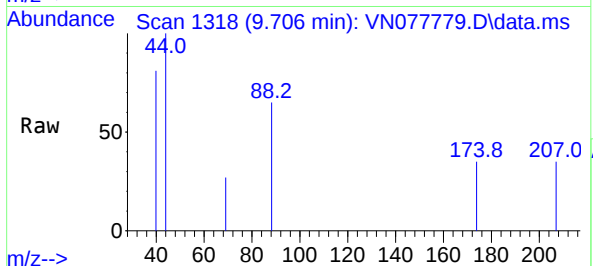




#49
1,4-Dioxane
Concen: 2.538 ug/l
RT: 9.706 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

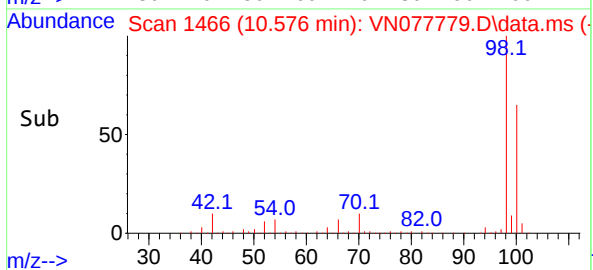
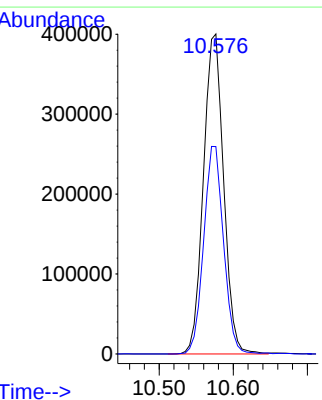
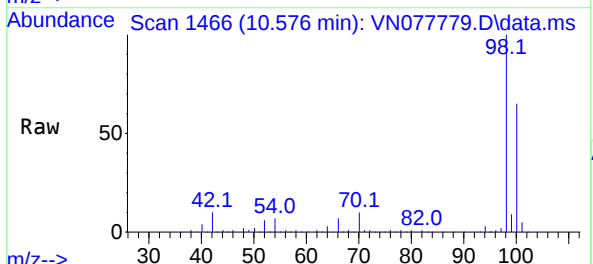
Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

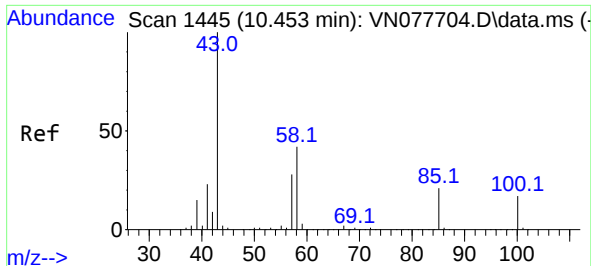
Tgt Ion: 88 Resp: 200
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#



#50
Toluene-d8
Concen: 47.576 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.005 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion: 98 Resp: 756874
Ion Ratio Lower Upper
98 100
100 64.0 52.0 78.0

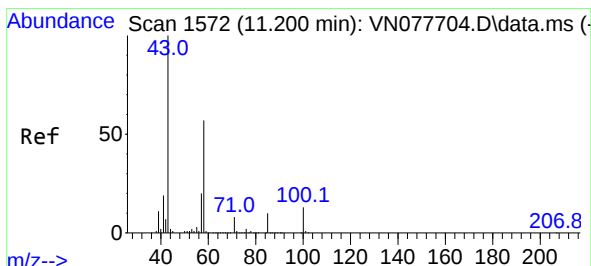
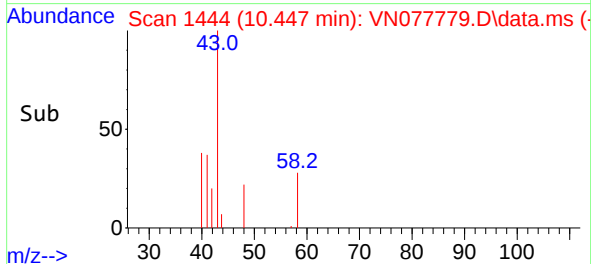
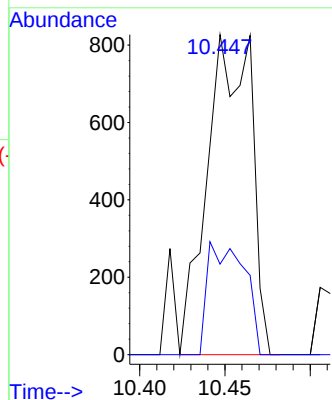
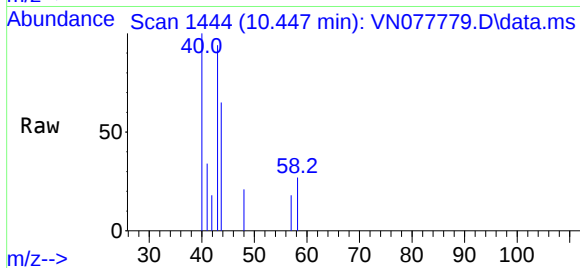




#51
4-Methyl-2-Pentanone
Concen: 0.285 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

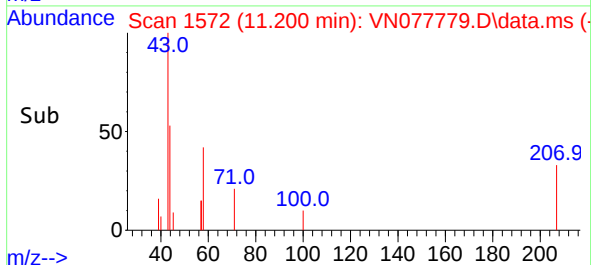
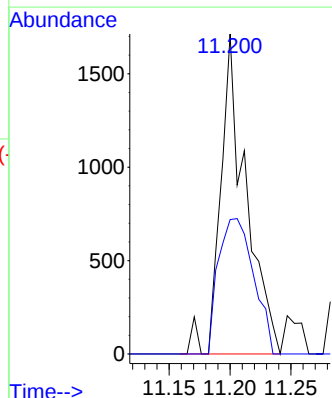
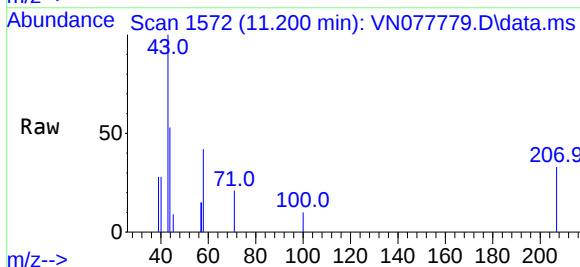
Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

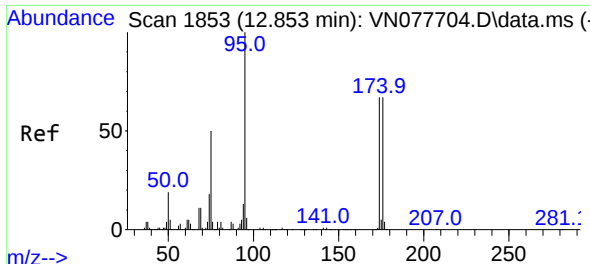
Tgt Ion: 43 Resp: 1492
Ion Ratio Lower Upper
43 100
58 29.4 36.6 54.8#



#59
2-Hexanone
Concen: 0.640 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. -0.000 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion: 43 Resp: 2476
Ion Ratio Lower Upper
43 100
58 59.0 31.7 95.1

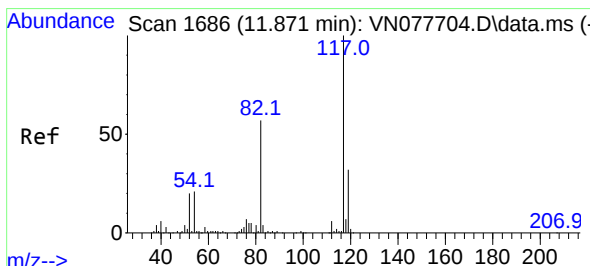
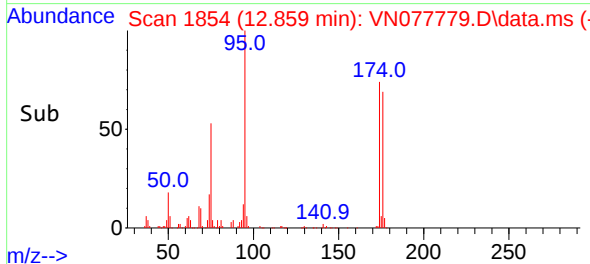
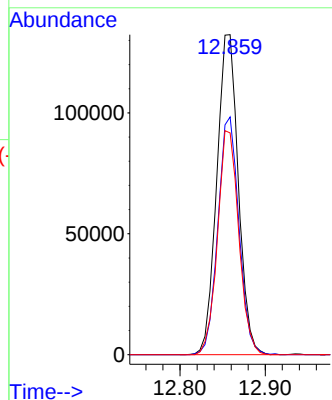
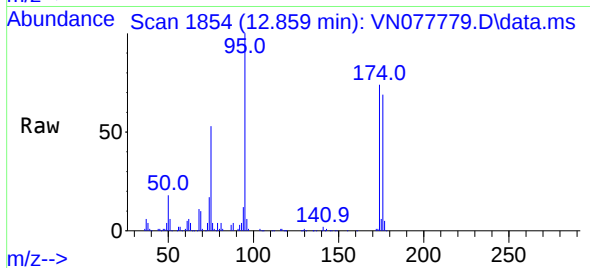




#62
4-Bromofluorobenzene
Concen: 41.405 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

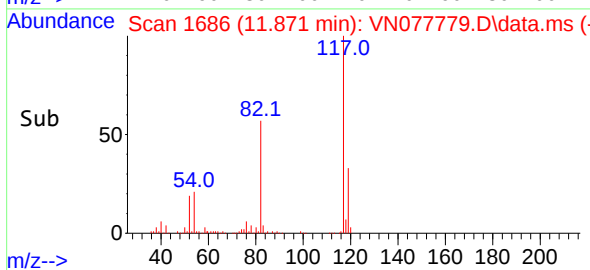
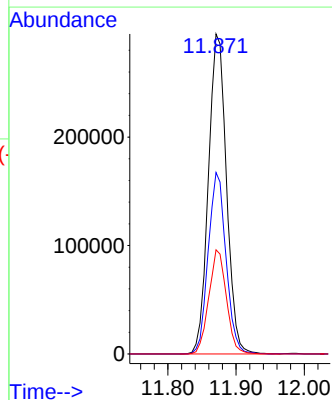
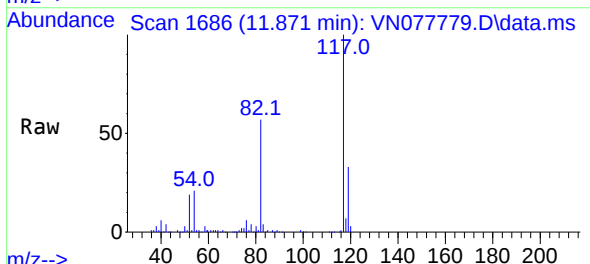
Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

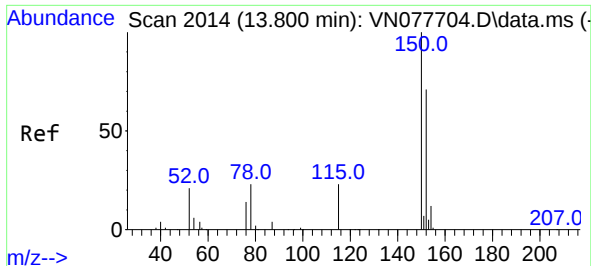
Tgt Ion: 95 Resp: 232639
Ion Ratio Lower Upper
95 100
174 72.5 0.0 143.8
176 68.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.001 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion: 117 Resp: 544658
Ion Ratio Lower Upper
117 100
82 56.7 44.0 66.0
119 32.6 25.6 38.4

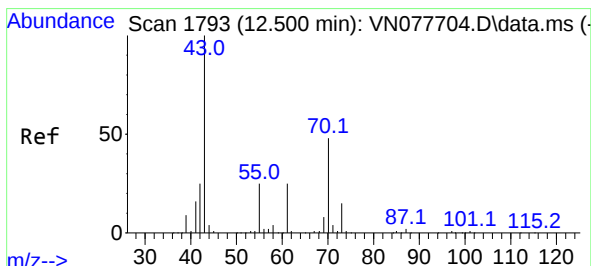
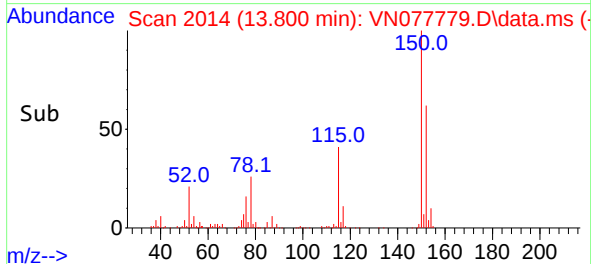
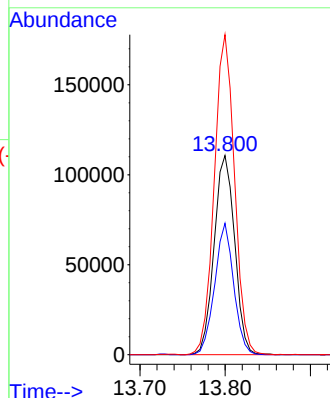
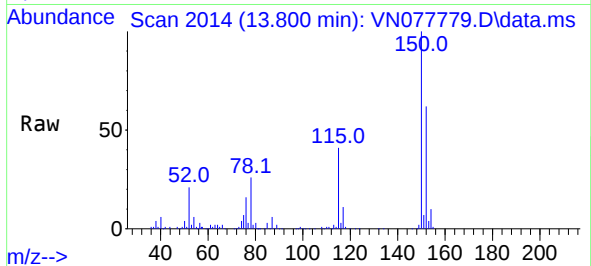




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

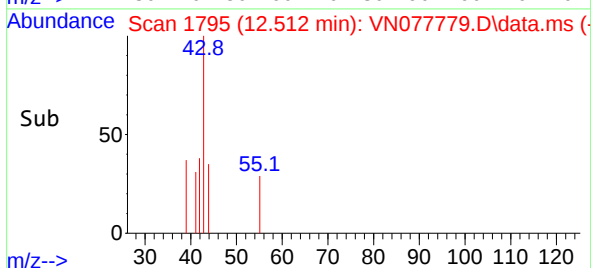
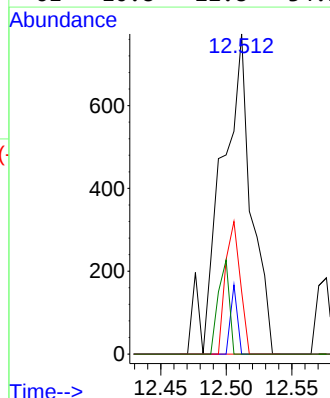
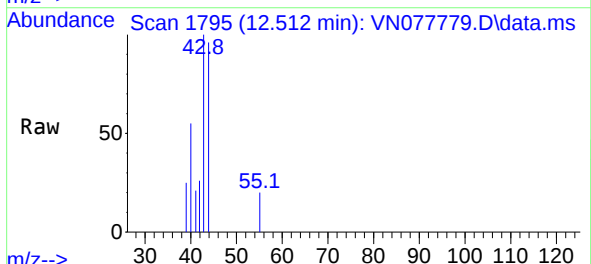
Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

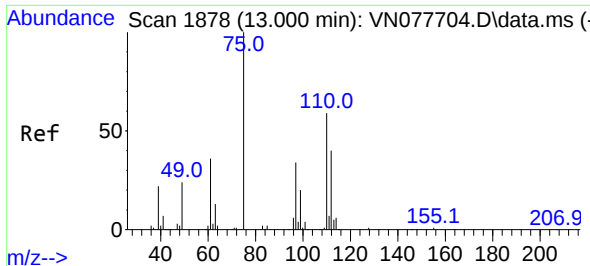
Tgt Ion:152 Resp: 185482
Ion Ratio Lower Upper
152 100
115 61.0 32.3 96.8
150 158.5 0.0 355.8



#74
N-ethyl acetate
Concen: 0.209 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. 0.012 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion: 43 Resp: 1237
Ion Ratio Lower Upper
43 100
70 4.8 43.4 65.2#
55 20.0 21.4 32.0#
61 10.8 22.8 34.2#

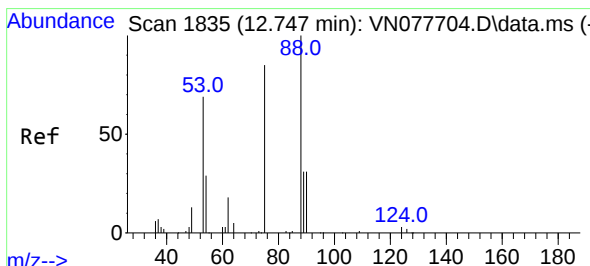
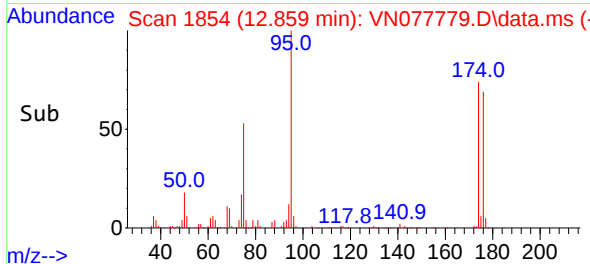
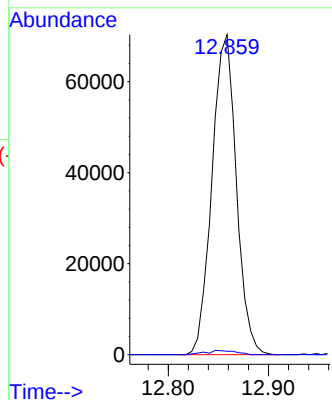
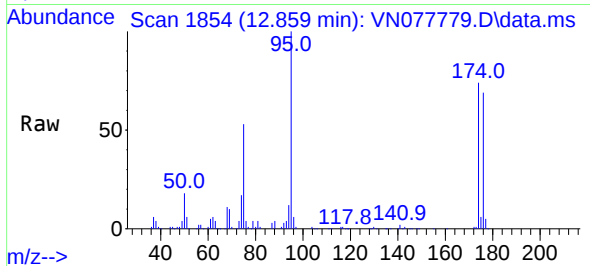




#76
1,2,3-Trichloropropane
Concen: 25.546 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

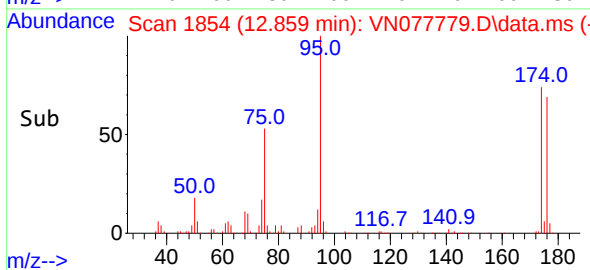
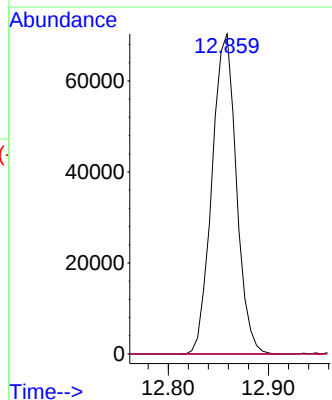
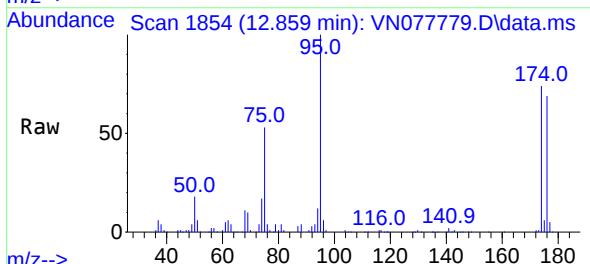
Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

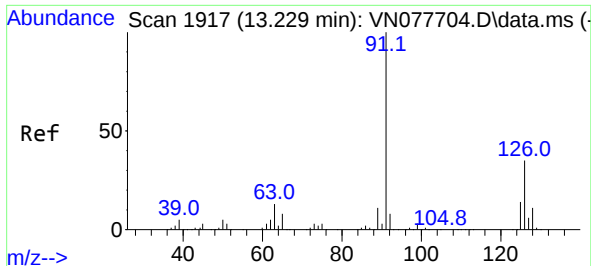
Tgt Ion: 75 Resp: 118666
Ion Ratio Lower Upper
75 100
77 1.6 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 81.659 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion: 75 Resp: 118666
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

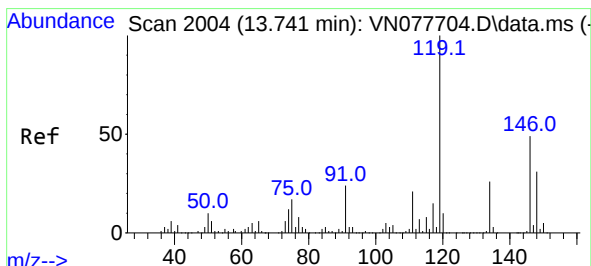
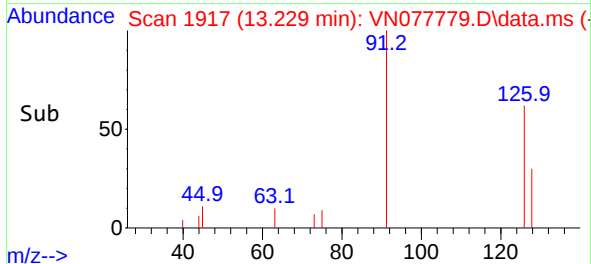
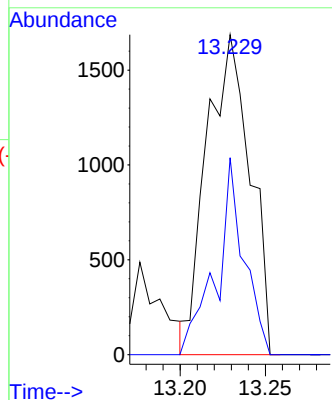
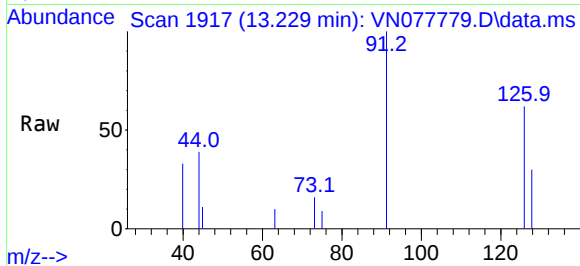




#82
4-Chlorotoluene
Concen: 0.267 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

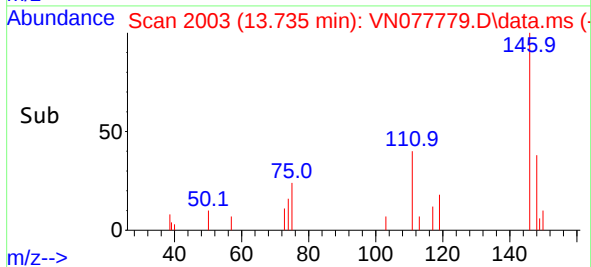
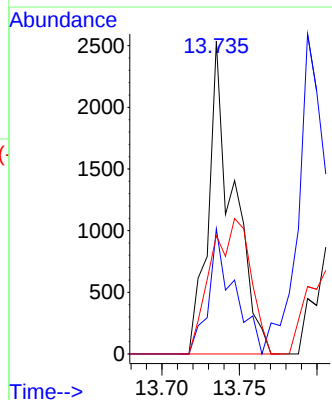
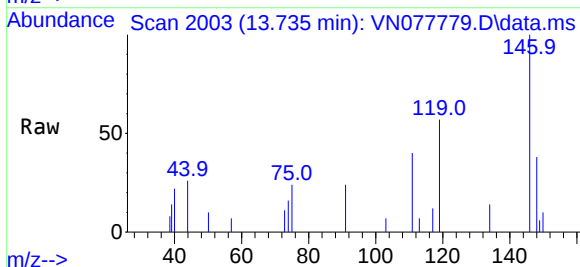
Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

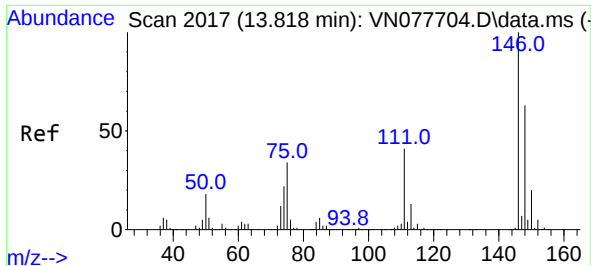
Tgt Ion: 91 Resp: 2983
Ion Ratio Lower Upper
91 100
126 39.2 16.7 50.0



#87
1,3-Dichlorobenzene
Concen: 0.422 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.006 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion: 146 Resp: 2849
Ion Ratio Lower Upper
146 100
111 39.9 22.1 66.3
148 68.4 32.0 96.0

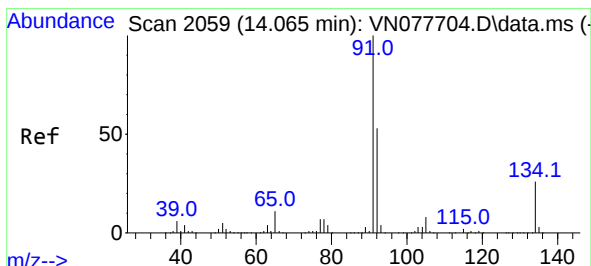
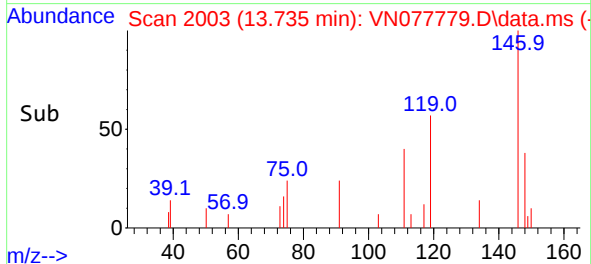
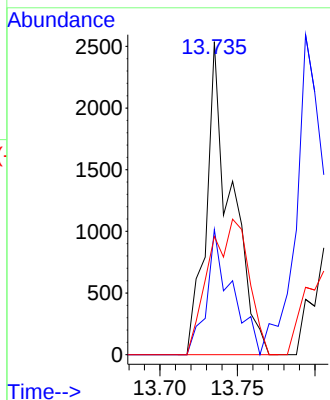
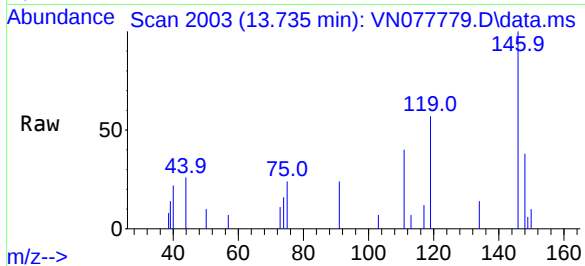




#88
1,4-Dichlorobenzene
Concen: 0.425 ug/l
RT: 13.735 min Scan# 20
Delta R.T. -0.082 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

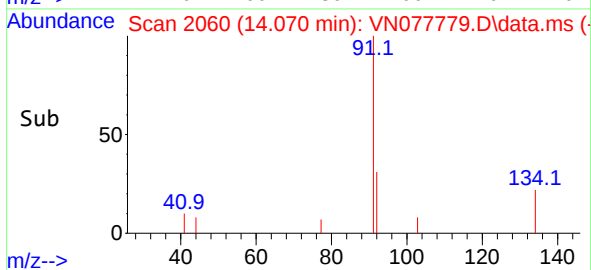
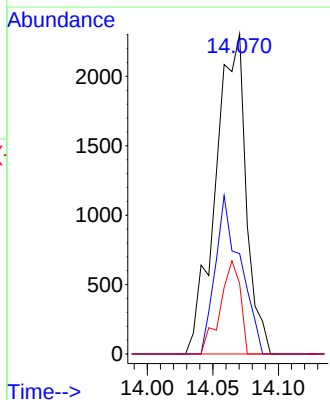
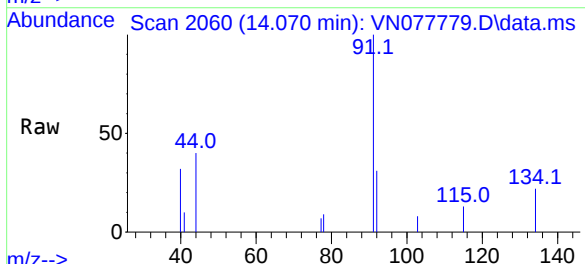
Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

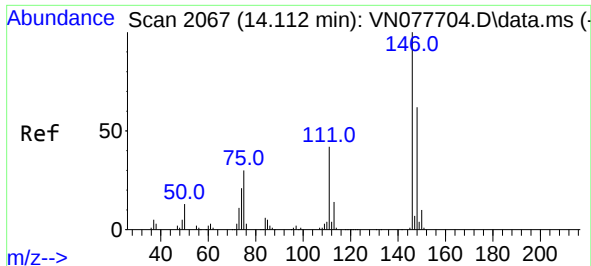
Tgt Ion:146 Resp: 2849
Ion Ratio Lower Upper
146 100
111 39.9 20.6 61.8
148 68.4 31.6 94.8



#89
n-Butylbenzene
Concen: 0.306 ug/l
RT: 14.070 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion: 91 Resp: 3739
Ion Ratio Lower Upper
91 100
92 40.5 26.4 79.0
134 19.0 12.6 37.6





#91

1,2-Dichlorobenzene

Concen: 0.357 ug/l

RT: 14.112 min Scan# 2067

Delta R.T. 0.001 min

Lab File: VN077779.D

Acq: 22 May 2023 10:56

Instrument :

MSVOA_N

ClientSampleId :

VN0522MBL01

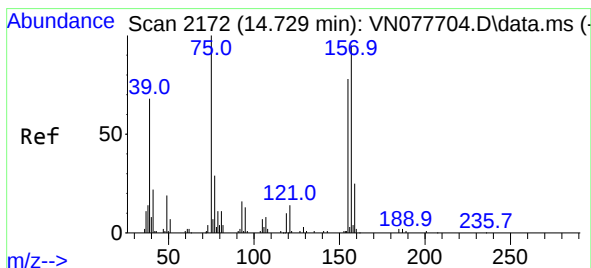
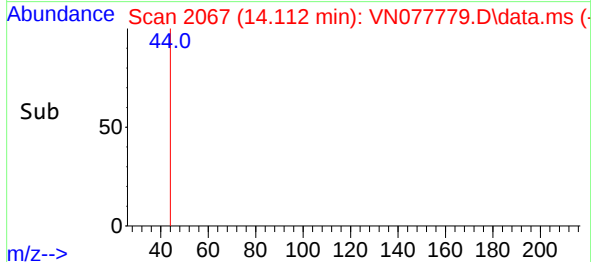
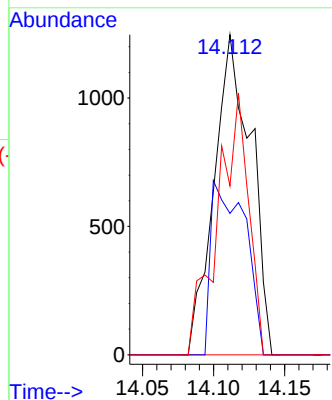
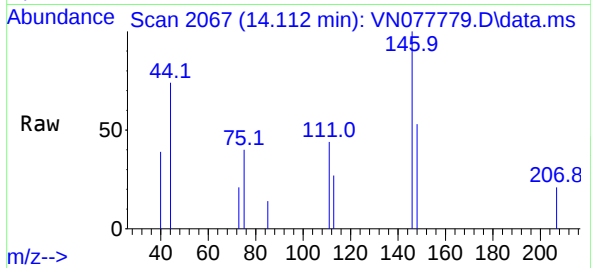
Tgt Ion:146 Resp: 2252

Ion Ratio Lower Upper

146 100

111 50.3 22.0 66.0

148 68.7 31.8 95.3



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.205 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.006 min

Lab File: VN077779.D

Acq: 22 May 2023 10:56

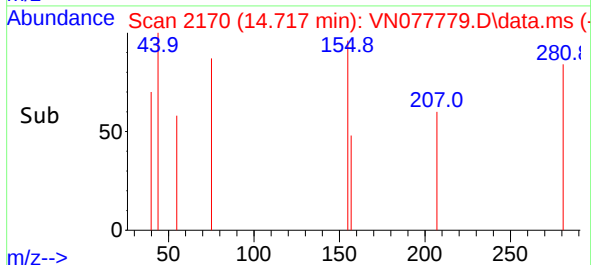
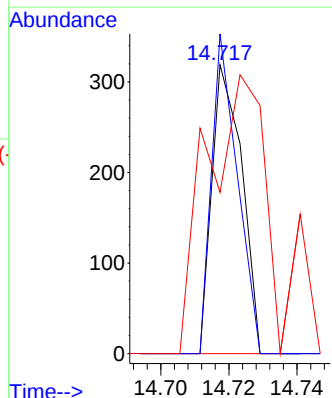
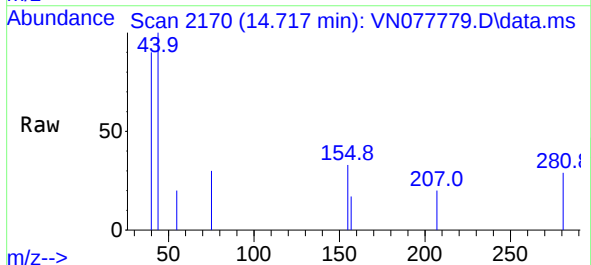
Tgt Ion: 75 Resp: 195

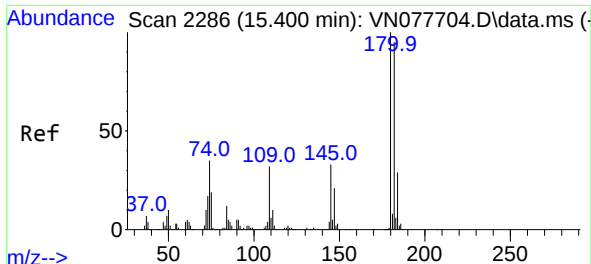
Ion Ratio Lower Upper

75 100

155 95.4 39.1 117.2

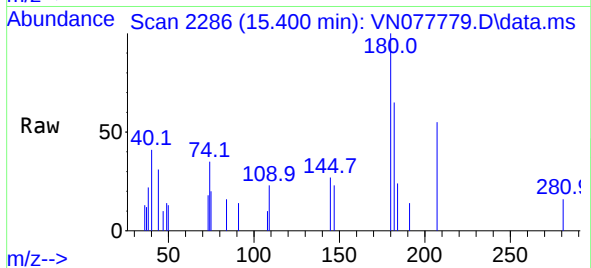
157 210.8 50.3 150.9#



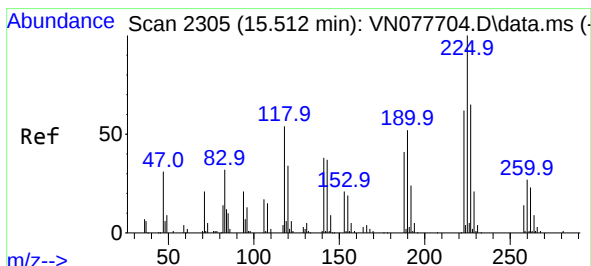
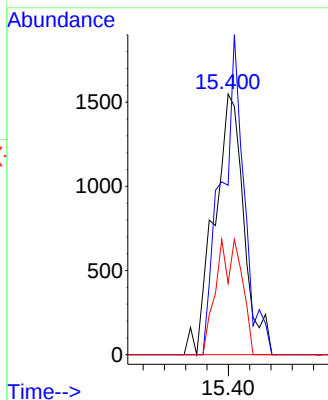
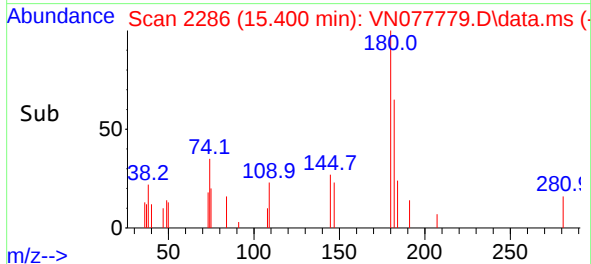


#93
1,2,4-Trichlorobenzene
Concen: 0.812 ug/l
RT: 15.400 min Scan# 2286
Delta R.T. -0.000 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

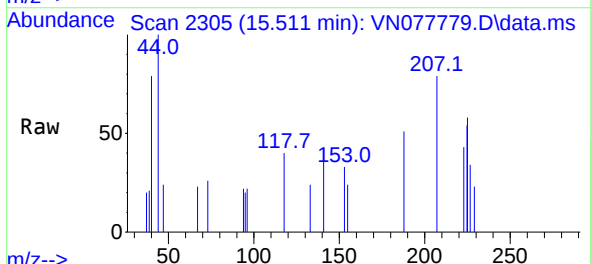
Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01



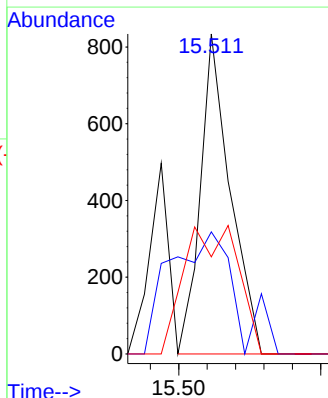
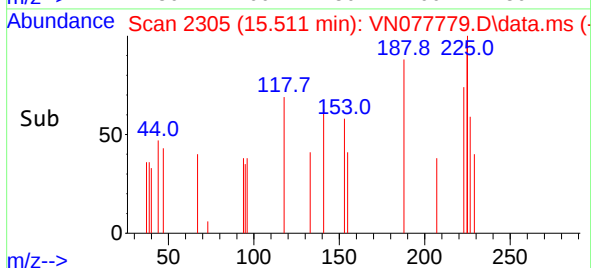
Tgt Ion:180 Resp: 2993
Ion Ratio Lower Upper
180 100
182 94.2 46.1 138.2
145 37.7 16.6 49.8

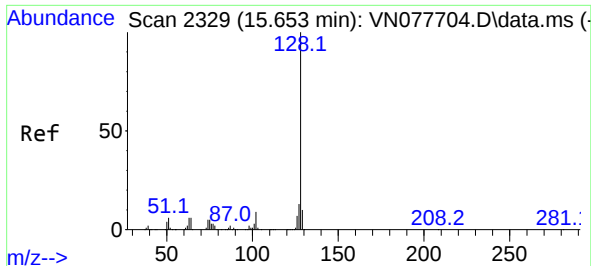


#94
Hexachlorobutadiene
Concen: 0.399 ug/l
RT: 15.511 min Scan# 2305
Delta R.T. 0.005 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56



Tgt Ion:225 Resp: 610
Ion Ratio Lower Upper
225 100
223 84.1 31.3 93.8
227 72.3 31.9 95.9

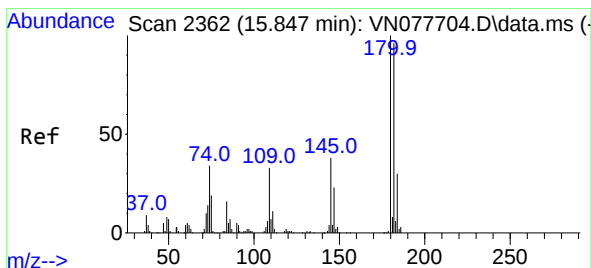
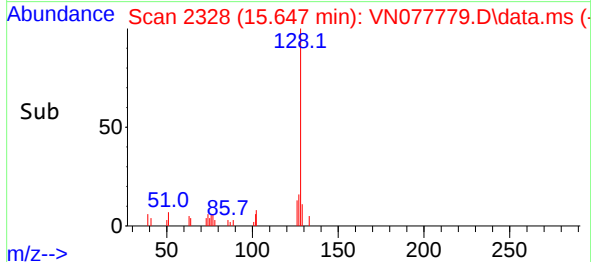
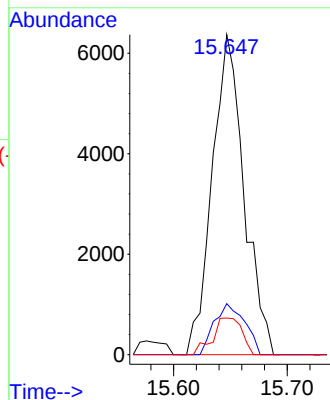
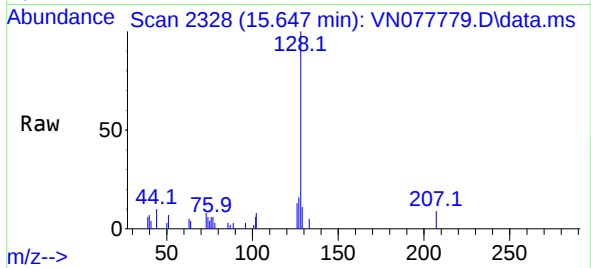




#95
Naphthalene
Concen: 0.979 ug/l
RT: 15.647 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Instrument :
MSVOA_N
ClientSampleId :
VN0522MBL01

Tgt Ion:	128	Resp:	12408
Ion	Ratio	Lower	Upper
128	100		
127	15.3	10.0	15.0#
129	10.5	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 1.080 ug/l
RT: 15.853 min Scan# 2363
Delta R.T. 0.006 min
Lab File: VN077779.D
Acq: 22 May 2023 10:56

Tgt Ion:	180	Resp:	3897
Ion	Ratio	Lower	Upper
180	100		
182	105.0	46.2	138.6
145	34.0	17.5	52.6

