

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042723\
 Data File : VN077491.D
 Acq On : 27 Apr 2023 12:24
 Operator : JC\MD
 Sample : 02520-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GWOW-06B-40-45-042623

Quant Time: Apr 28 03:24:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

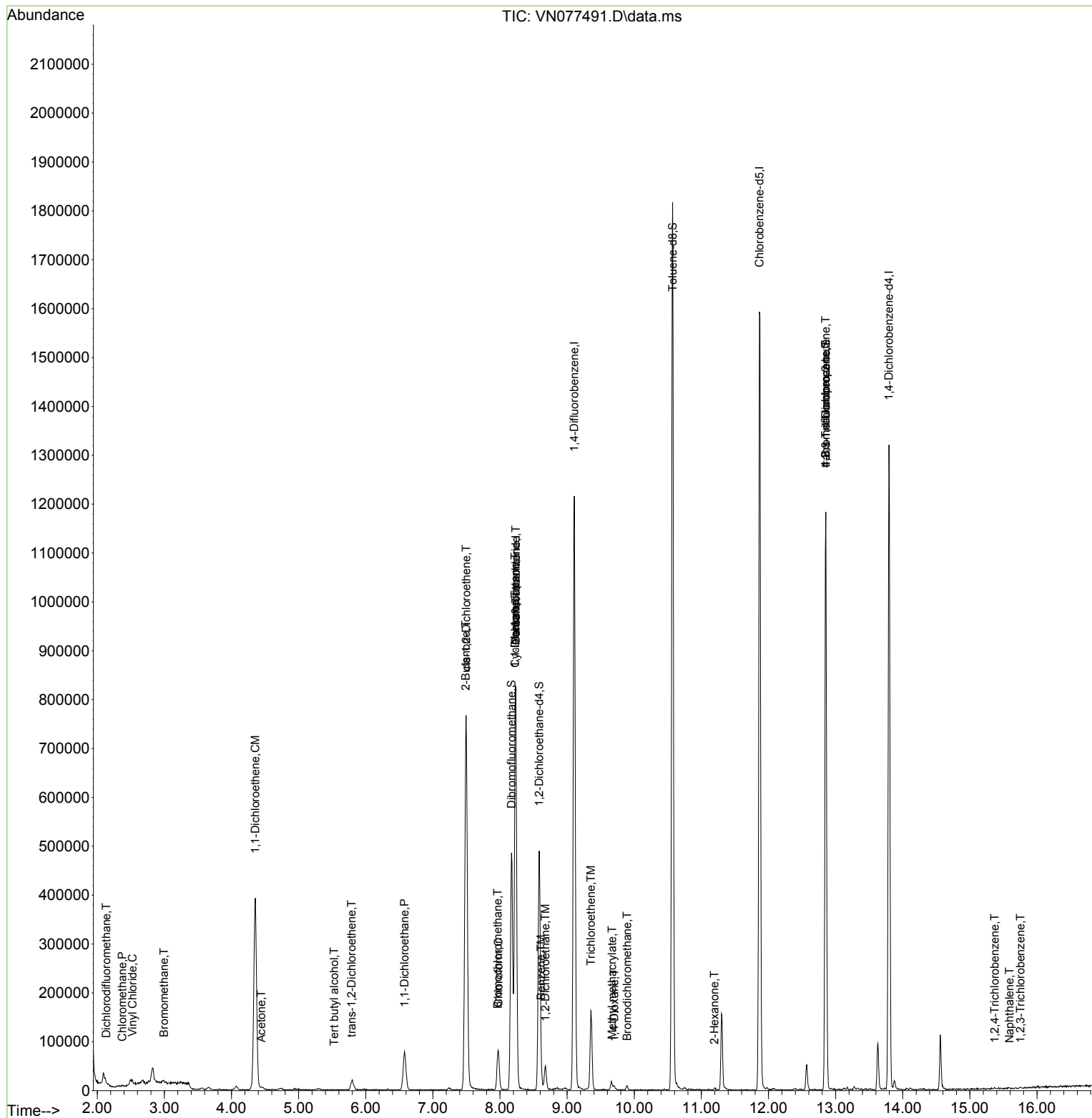
Internal Standards						
1) Pentafluorobenzene	8.236	168	605739	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1117764	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	994738	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	365277	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	395414	50.026	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.060%			
35) Dibromofluoromethane	8.172	113	353100	52.558	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.120%			
50) Toluene-d8	10.572	98	1343456	52.177	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.360%			
62) 4-Bromofluorobenzene	12.854	95	424741	50.419	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.840%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.137	85	74	0.319	ug/l #	43
3) Chloromethane	2.372	50	1905	0.314	ug/l #	82
4) Vinyl Chloride	2.525	62	3165	0.391	ug/l #	65
5) Bromomethane	2.996	94	3154	0.450	ug/l #	58
11) Tert butyl alcohol	5.531	59	434	0.342	ug/l #	84
12) 1,1-Dichloroethene	4.354	96	256071	37.881	ug/l	95
16) Acetone	4.443	43	3330	1.324	ug/l	89
21) trans-1,2-Dichloroethene	5.790	96	12670	1.733	ug/l #	71
24) 1,1-Dichloroethane	6.578	63	109703	8.985	ug/l #	96
25) 2-Butanone	7.489	43	7807	2.189	ug/l #	35
27) cis-1,2-Dichloroethene	7.495	96	501048	57.878	ug/l	90
28) Bromochloromethane	7.966	49	6266	1.344	ug/l #	5
30) Chloroform	7.978	83	82539	5.998	ug/l	93
31) Cyclohexane	8.225	56	15017	1.341	ug/l #	53
36) 1,1-Dichloropropene	8.225	75	51536	5.310	ug/l #	47
38) Carbon Tetrachloride	8.236	117	69793	6.517	ug/l #	14
40) Benzene	8.613	78	10101	0.342	ug/l #	87
42) 1,2-Dichloroethane	8.678	62	42949	4.229	ug/l	96
44) Trichloroethene	9.354	130	57970	7.657	ug/l	100
47) Bromodichloromethane	9.895	83	6220	0.572	ug/l	97
48) Methyl methacrylate	9.672	41	4523	0.779	ug/l #	34
49) 1,4-Dioxane	9.701	88	7383	50.678	ug/l	92
59) 2-Hexanone	11.195	43	2363	0.434	ug/l	69
76) 1,2,3-Trichloropropane	12.854	75	229100	26.972	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	229100	76.199	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.371	180	623	1.032	ug/l #	53
95) Naphthalene	15.589	128	2155	1.361	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.754	180	116	0.521	ug/l #	1

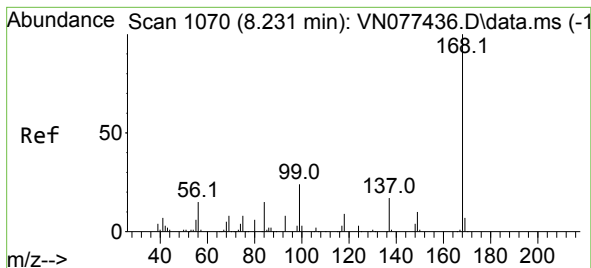
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN077491.D

Acq: 27 Apr 2023 12:24

Instrument :

MSVOA_N

ClientSampleId :

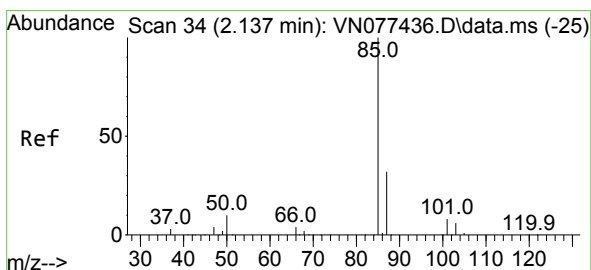
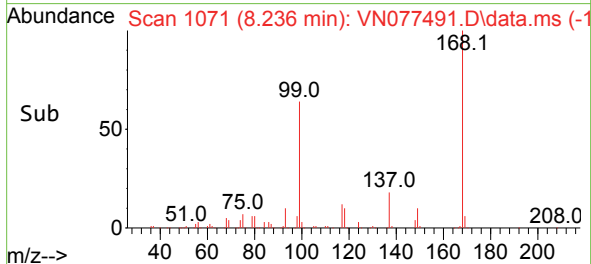
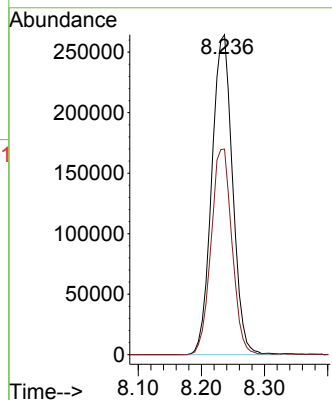
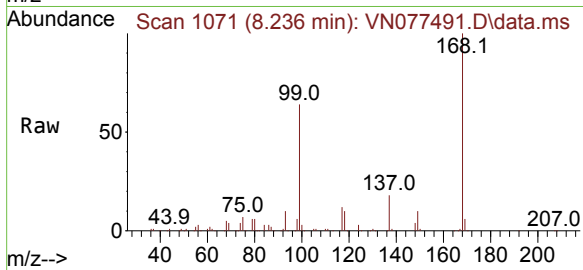
GWOW-06B-40-45-042623

Tgt Ion:168 Resp: 605739

Ion Ratio Lower Upper

168 100

99 64.3 53.0 79.6



#2

Dichlorodifluoromethane

Concen: 0.319 ug/l

RT: 2.137 min Scan# 34

Delta R.T. -0.000 min

Lab File: VN077491.D

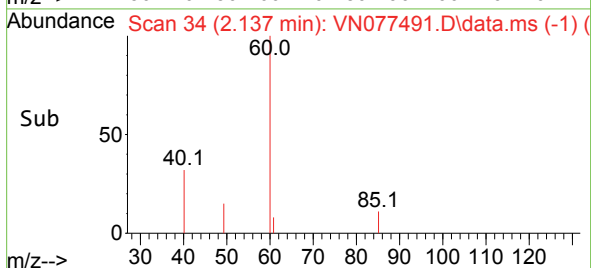
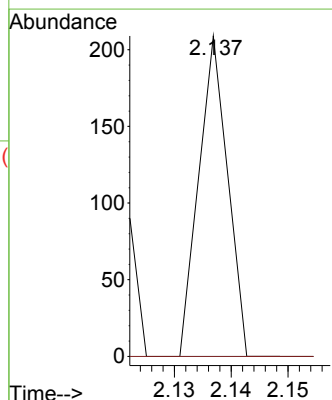
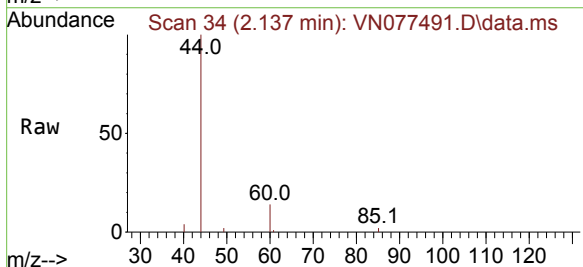
Acq: 27 Apr 2023 12:24

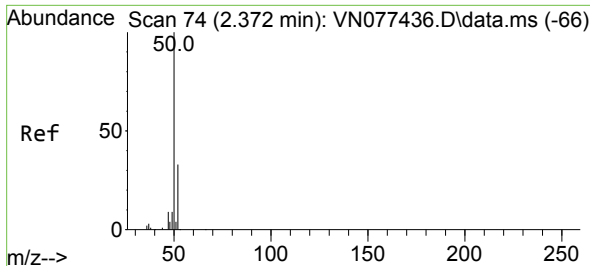
Tgt Ion: 85 Resp: 74

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#

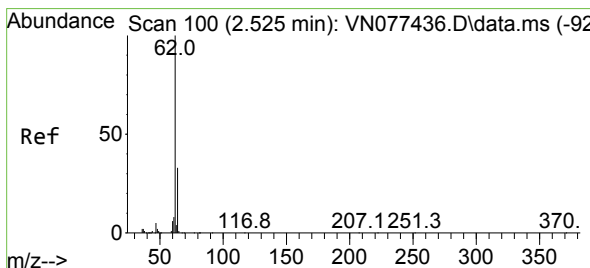
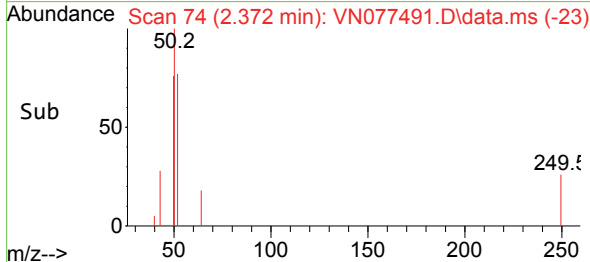
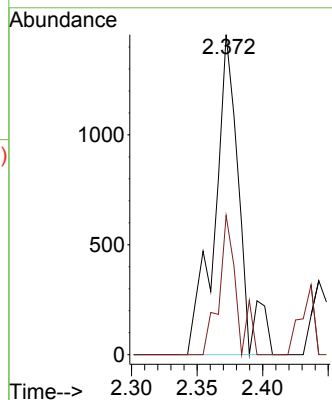
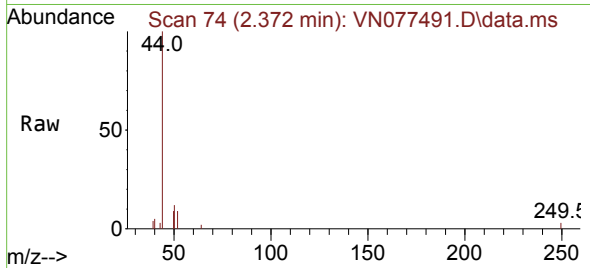




#3
Chloromethane
Concen: 0.314 ug/l
RT: 2.372 min Scan# 74
Delta R.T. -0.000 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

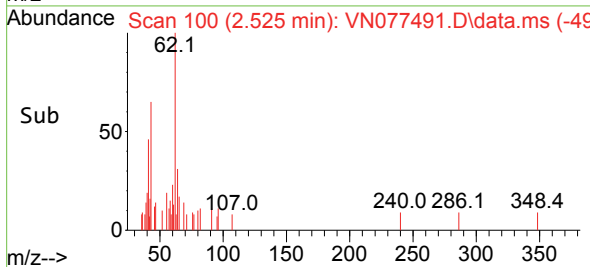
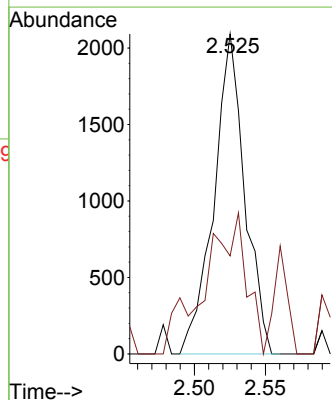
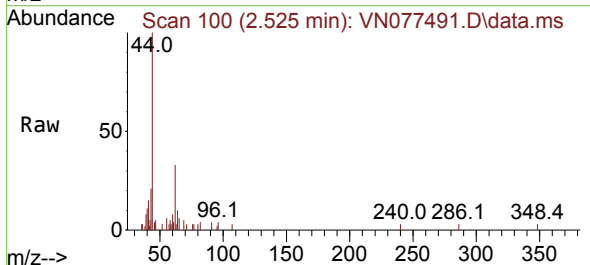
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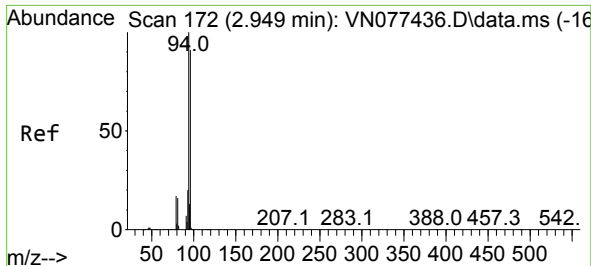
Tgt Ion: 50 Resp: 1905
Ion Ratio Lower Upper
50 100
52 43.5 26.5 39.7#



#4
Vinyl Chloride
Concen: 0.391 ug/l
RT: 2.525 min Scan# 100
Delta R.T. -0.000 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

Tgt Ion: 62 Resp: 3165
Ion Ratio Lower Upper
62 100
64 13.1 26.2 39.2#

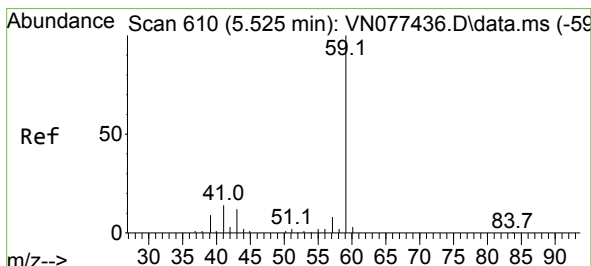
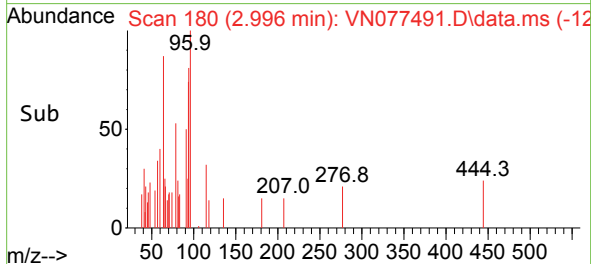
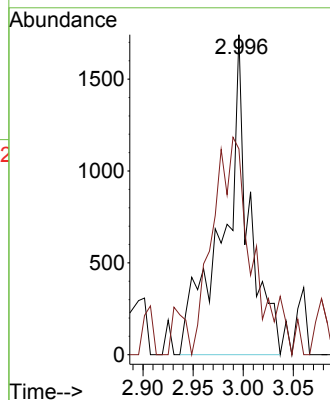
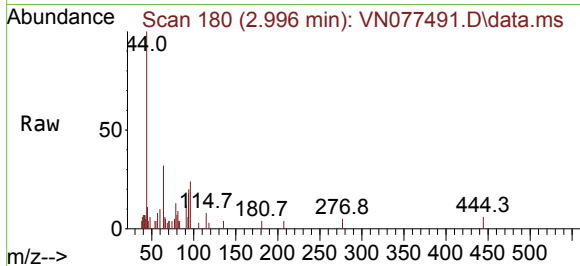




#5
Bromomethane
Concen: 0.450 ug/l
RT: 2.996 min Scan# 11
Delta R.T. 0.047 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

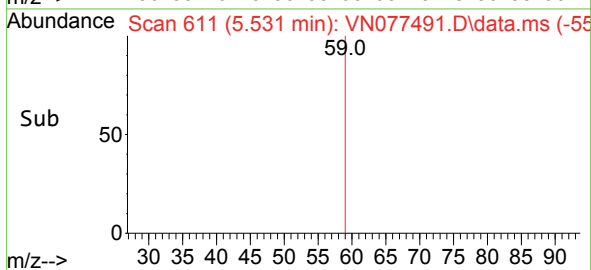
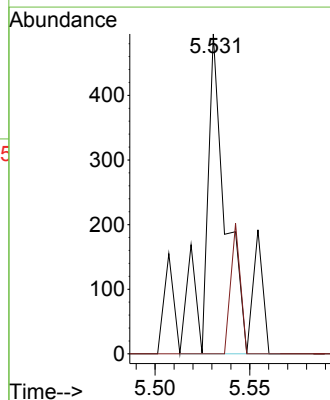
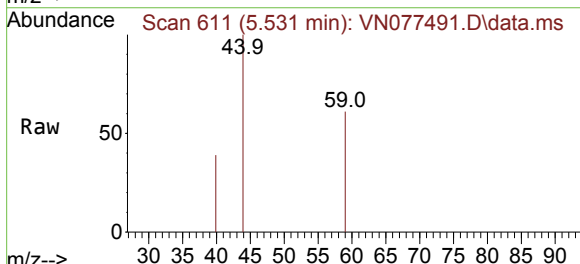
Instrument :
MSVOA_N
ClientSampleId :
GWOW-06B-40-45-042623

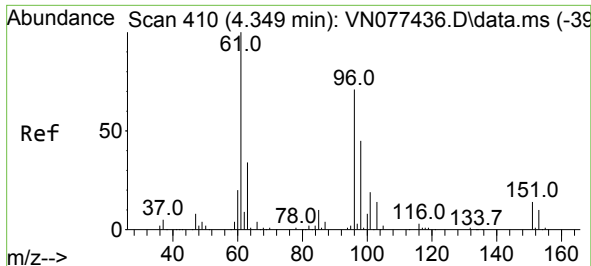
Tgt Ion: 94 Resp: 3154
Ion Ratio Lower Upper
94 100
96 51.8 73.1 109.7#



#11
Tert butyl alcohol
Concen: 0.342 ug/l
RT: 5.531 min Scan# 611
Delta R.T. 0.006 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

Tgt Ion: 59 Resp: 434
Ion Ratio Lower Upper
59 100
57 16.4 8.2 12.4#





#12

1,1-Dichloroethene

Concen: 37.881 ug/l

RT: 4.354 min Scan# 411

Delta R.T. 0.006 min

Lab File: VN077491.D

Acq: 27 Apr 2023 12:24

Instrument :

MSVOA_N

ClientSampleId :

GWOW-06B-40-45-042623

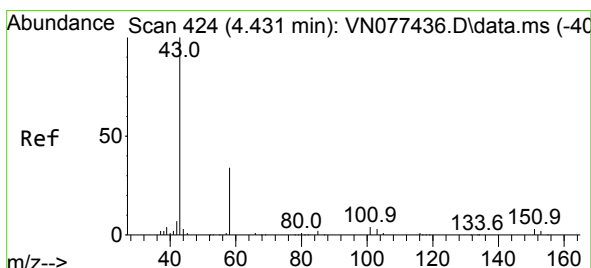
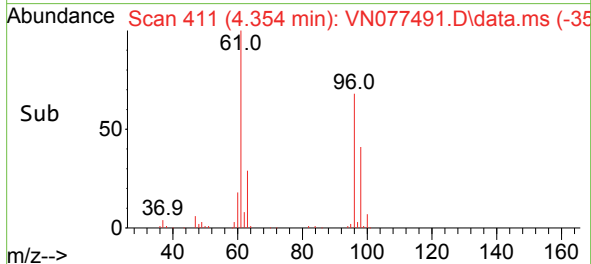
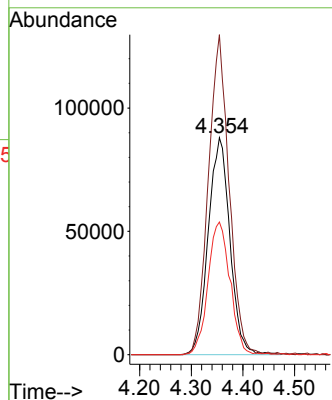
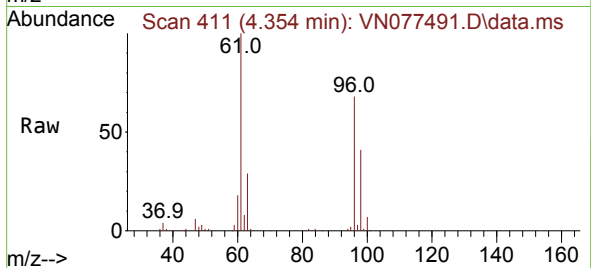
Tgt Ion: 96 Resp: 256071

Ion Ratio Lower Upper

96 100

61 147.4 112.7 169.1

98 61.1 51.2 76.8



#16

Acetone

Concen: 1.324 ug/l

RT: 4.443 min Scan# 426

Delta R.T. 0.012 min

Lab File: VN077491.D

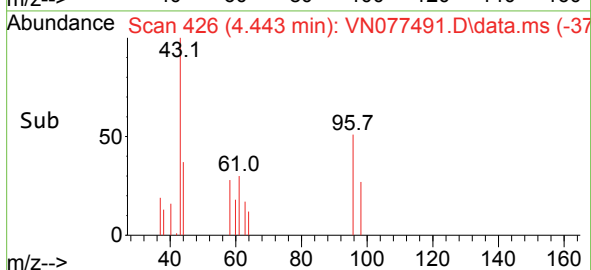
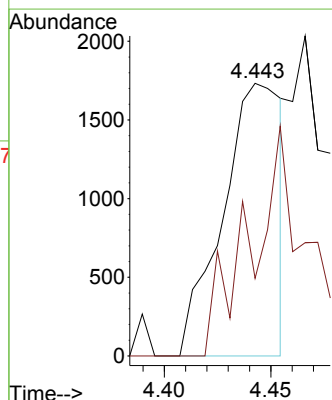
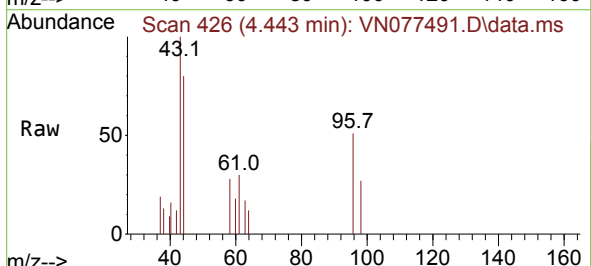
Acq: 27 Apr 2023 12:24

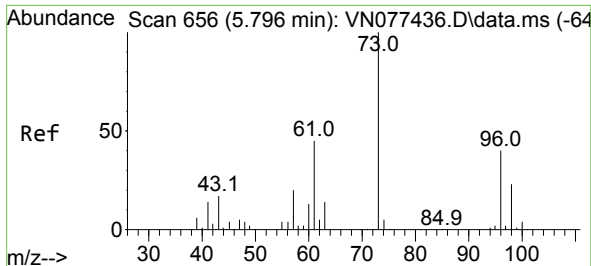
Tgt Ion: 43 Resp: 3330

Ion Ratio Lower Upper

43 100

58 28.4 28.0 42.0

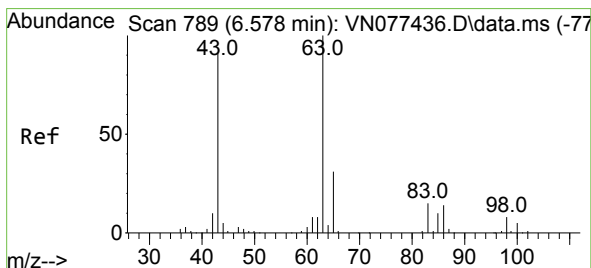
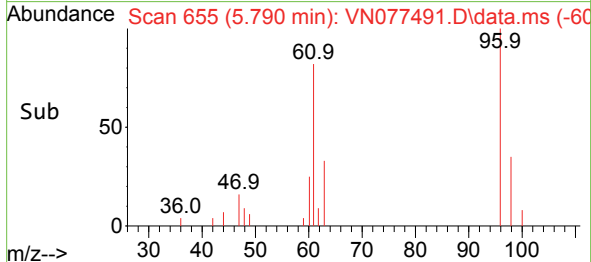
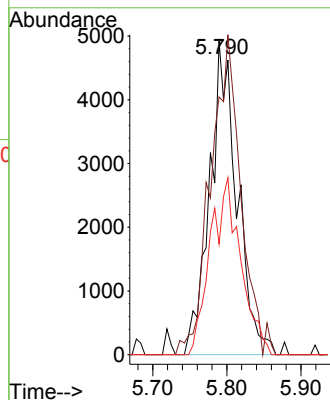
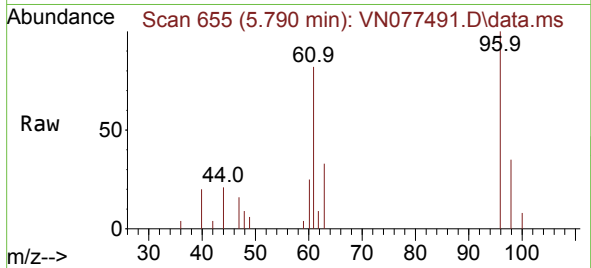




#21
trans-1,2-Dichloroethene
Concen: 1.733 ug/l
RT: 5.790 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

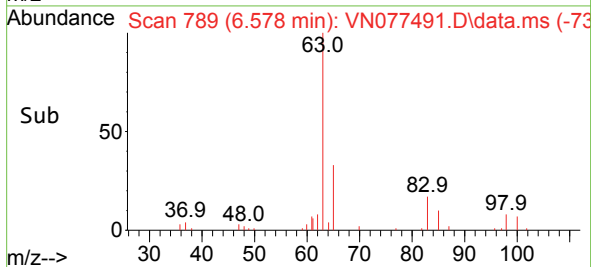
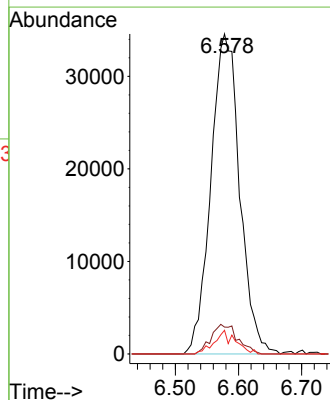
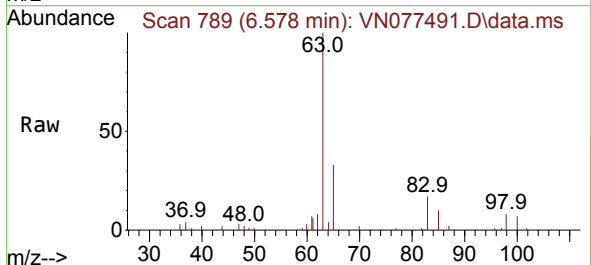
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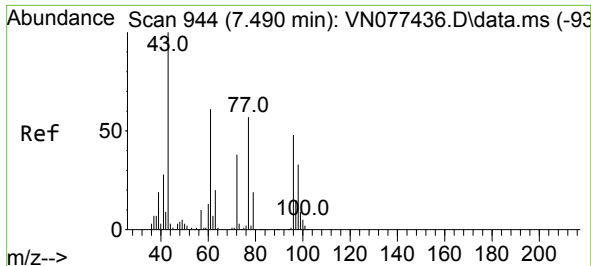
Tgt Ion: 96 Resp: 12670
Ion Ratio Lower Upper
96 100
61 82.2 90.1 135.1#
98 35.3 46.4 69.6#



#24
1,1-Dichloroethane
Concen: 8.985 ug/l
RT: 6.578 min Scan# 789
Delta R.T. -0.000 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

Tgt Ion: 63 Resp: 109703
Ion Ratio Lower Upper
63 100
98 8.4 3.9 11.7
100 7.4 2.5 7.4#

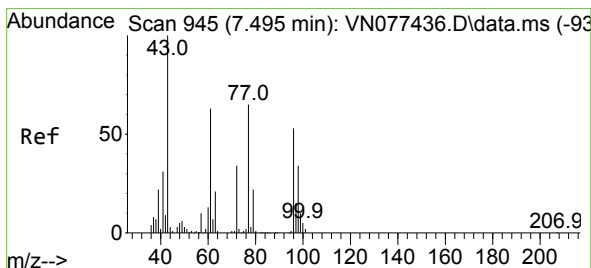
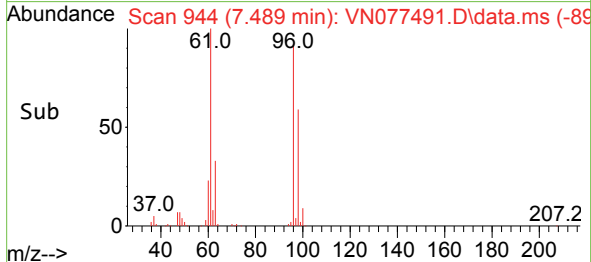
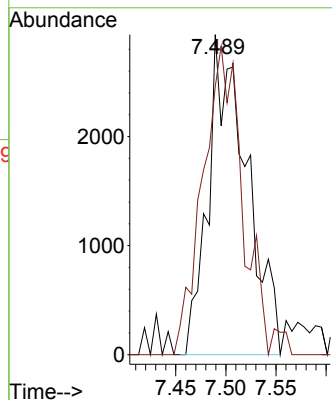
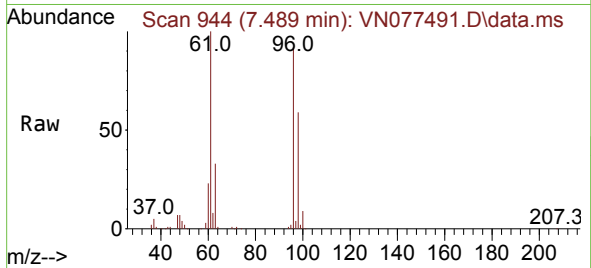




#25
2-Butanone
Concen: 2.189 ug/l
RT: 7.489 min Scan# 944
Delta R.T. -0.000 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

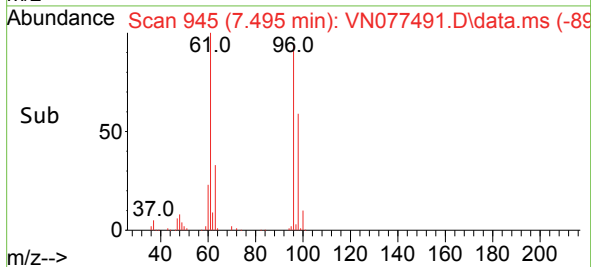
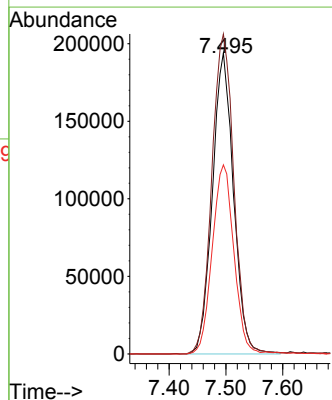
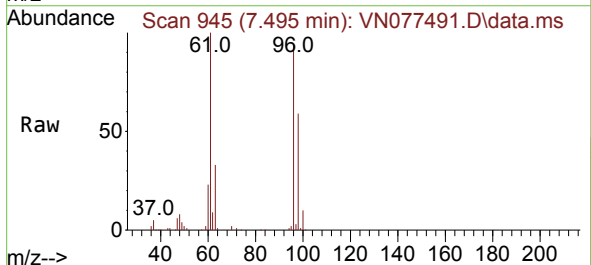
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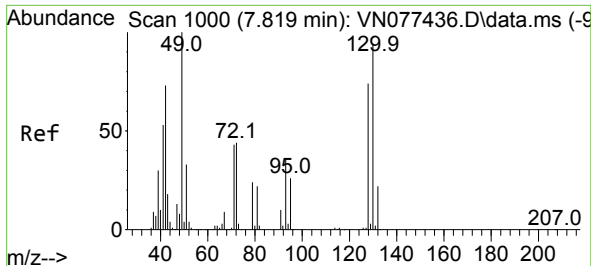
Tgt Ion: 43 Resp: 7807
Ion Ratio Lower Upper
43 100
72 76.7 30.2 45.2#



#27
cis-1,2-Dichloroethene
Concen: 57.878 ug/l
RT: 7.495 min Scan# 945
Delta R.T. -0.000 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

Tgt Ion: 96 Resp: 501048
Ion Ratio Lower Upper
96 100
61 110.8 0.0 255.2
98 64.1 0.0 128.8

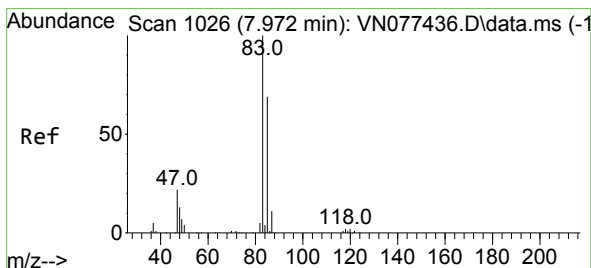
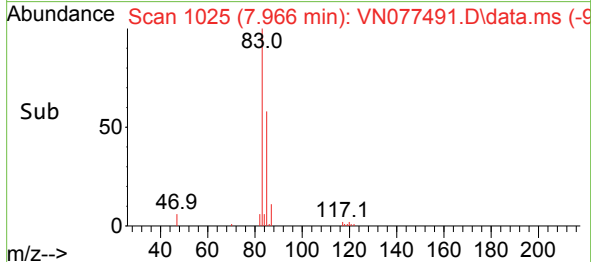
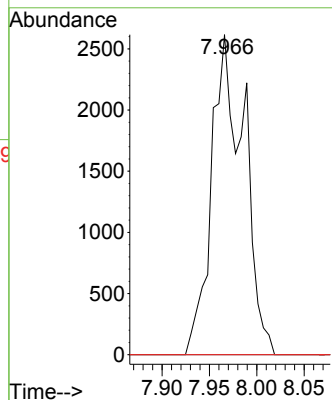
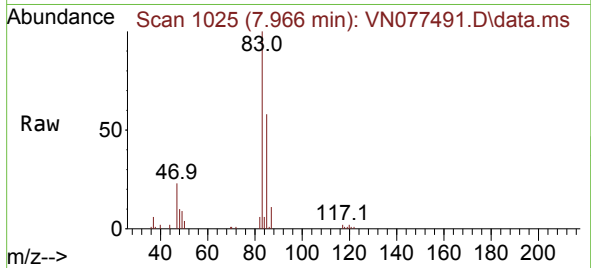




#28
Bromochloromethane
Concen: 1.344 ug/l
RT: 7.966 min Scan# 10
Delta R.T. 0.147 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

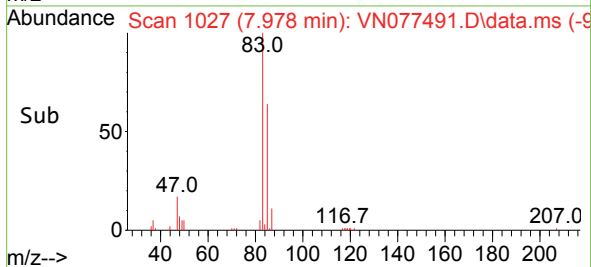
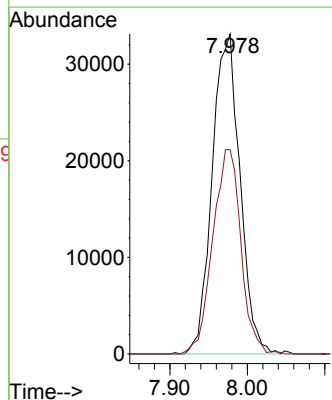
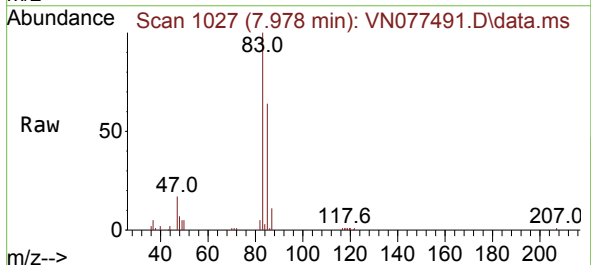
Instrument :
MSVOA_N
ClientSampleId :
GWOW-06B-40-45-042623

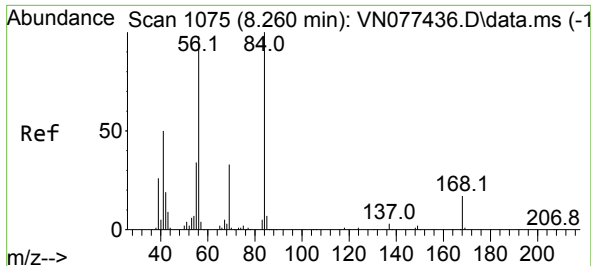
Tgt Ion: 49 Resp: 6266
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.8
130 0.0 75.3 112.9#



#30
Chloroform
Concen: 5.998 ug/l
RT: 7.978 min Scan# 1027
Delta R.T. 0.006 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

Tgt Ion: 83 Resp: 82539
Ion Ratio Lower Upper
83 100
85 63.8 55.4 83.0

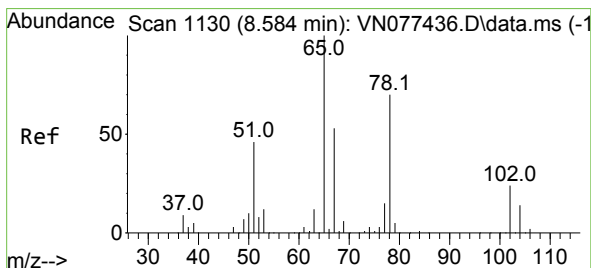
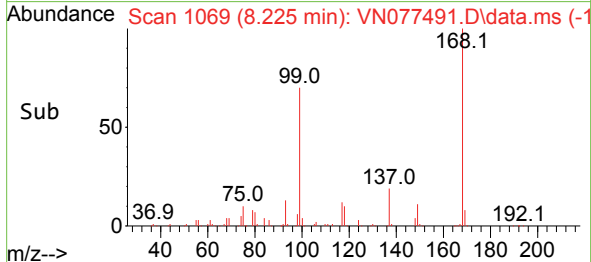
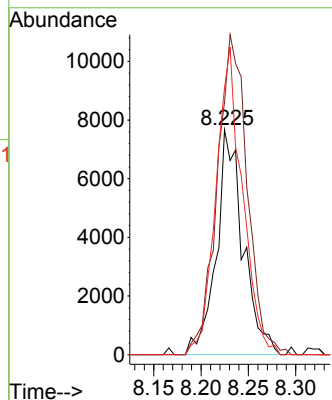
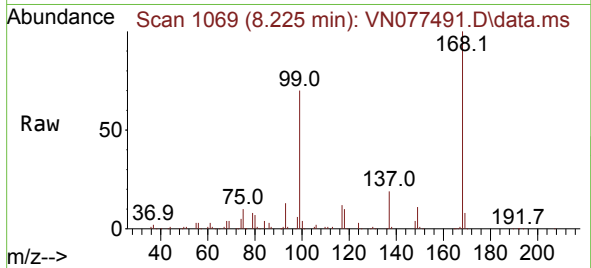




#31
Cyclohexane
Concen: 1.341 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.035 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

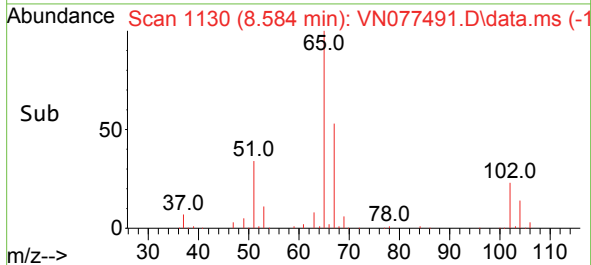
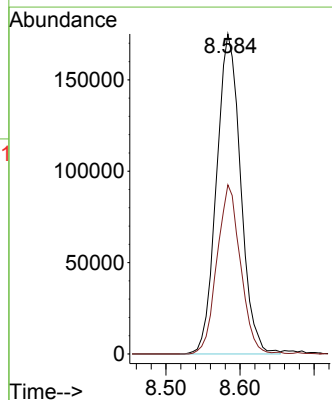
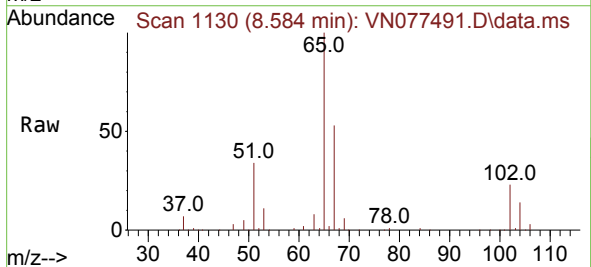
Instrument :
MSVOA_N
ClientSampleId :
GWOW-06B-40-45-042623

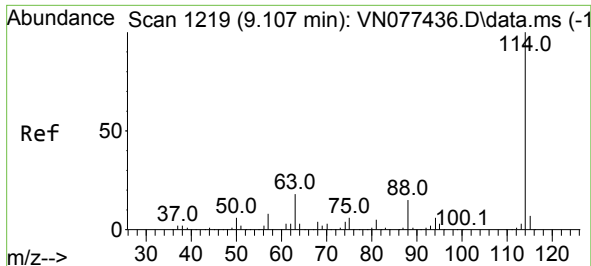
Tgt Ion: 56 Resp: 15017
Ion Ratio Lower Upper
56 100
69 112.3 26.8 40.2#
84 118.8 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 50.026 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

Tgt Ion: 65 Resp: 395414
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.6

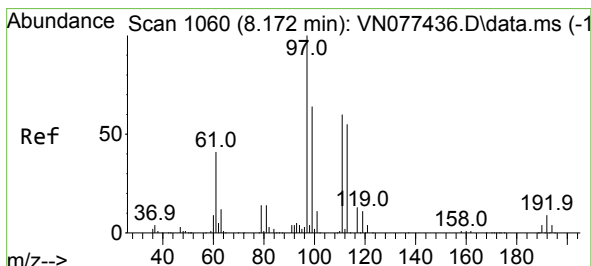
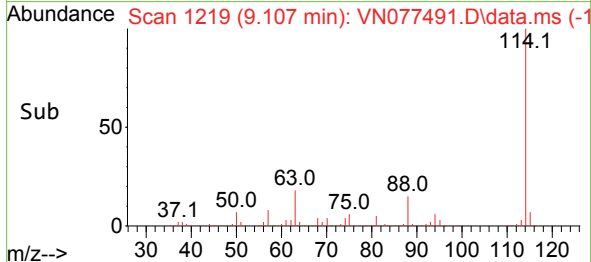
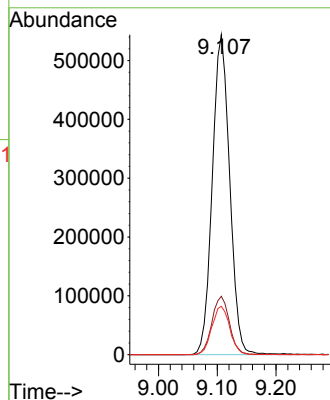
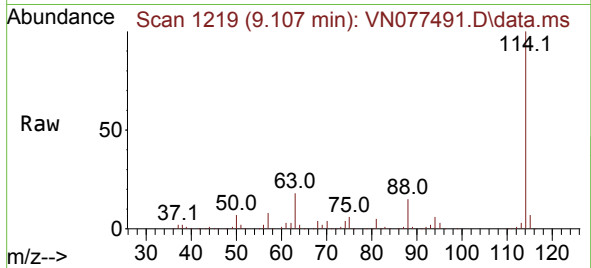




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

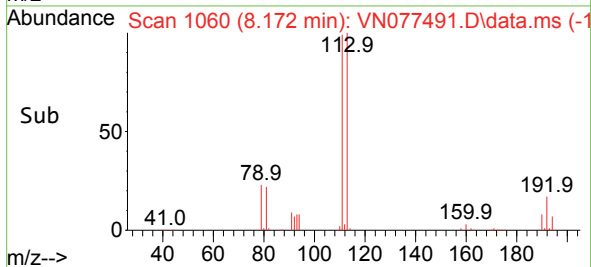
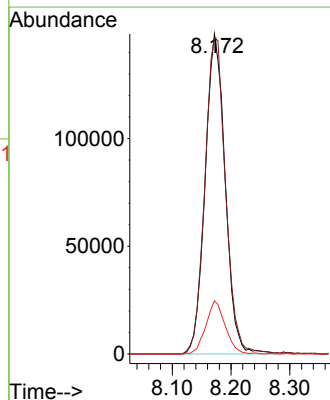
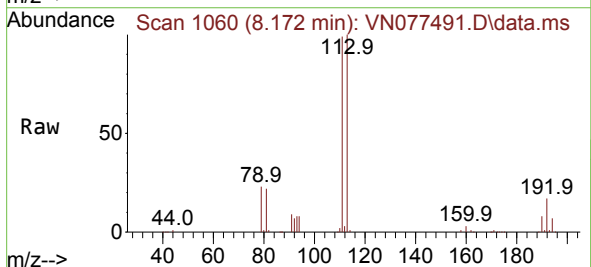
Instrument :
MSVOA_N
ClientSampleId :
GWOW-06B-40-45-042623

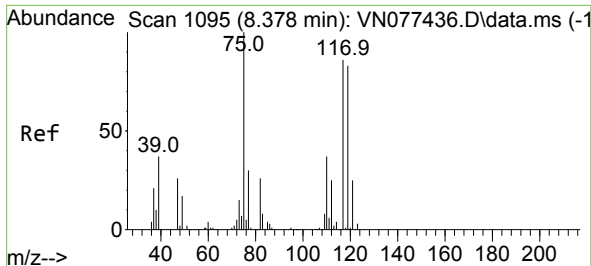
Tgt Ion:114 Resp: 1117764
Ion Ratio Lower Upper
114 100
63 18.3 0.0 36.4
88 15.1 0.0 30.6



#35
Dibromofluoromethane
Concen: 52.558 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

Tgt Ion:113 Resp: 353100
Ion Ratio Lower Upper
113 100
111 101.8 82.6 123.8
192 16.0 12.7 19.1

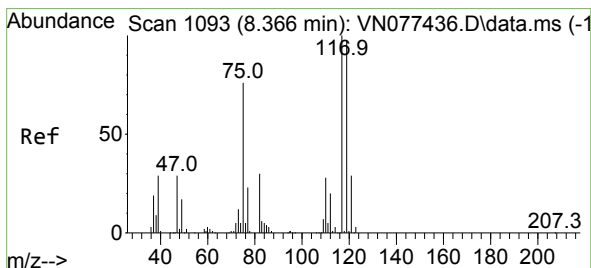
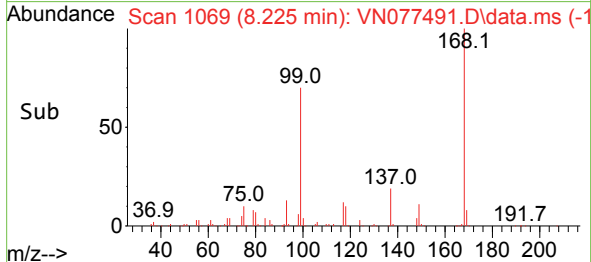
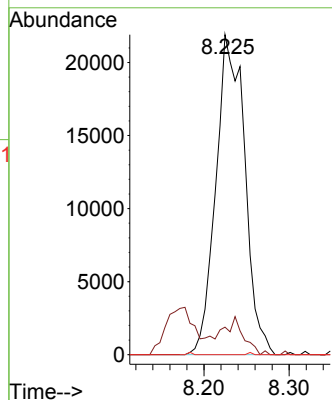
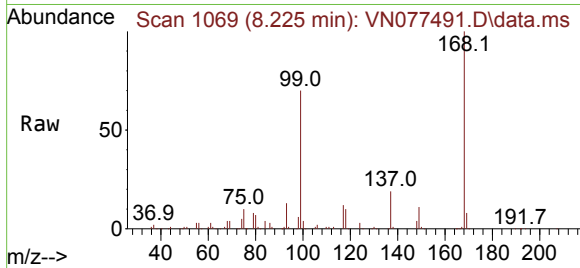




#36
1,1-Dichloropropene
Concen: 5.310 ug/l
RT: 8.225 min Scan# 1071
Delta R.T. -0.153 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

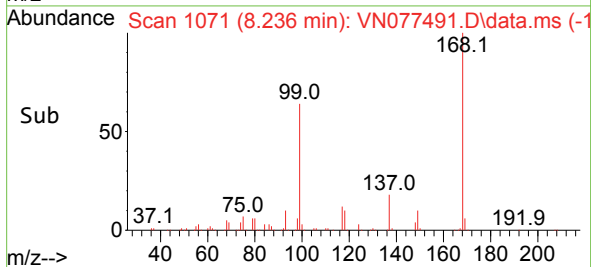
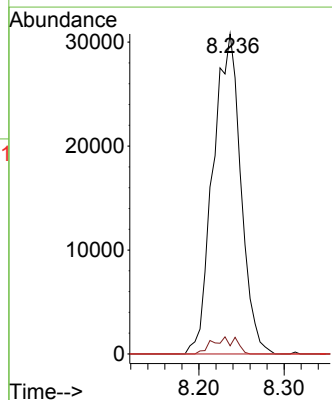
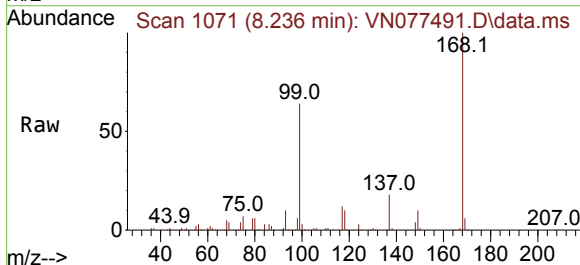
Instrument :
MSVOA_N
ClientSampleId :
GWOW-06B-40-45-042623

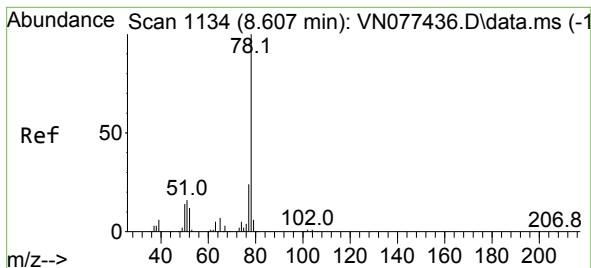
Tgt Ion: 75 Resp: 51536
Ion Ratio Lower Upper
75 100
110 8.2 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 6.517 ug/l
RT: 8.236 min Scan# 1071
Delta R.T. -0.129 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

Tgt Ion: 117 Resp: 69793
Ion Ratio Lower Upper
117 100
119 2.6 77.3 115.9#
121 0.0 23.3 34.9#





#40

Benzene

Concen: 0.342 ug/l

RT: 8.613 min Scan# 1135

Delta R.T. 0.006 min

Lab File: VN077491.D

Acq: 27 Apr 2023 12:24

Instrument :

MSVOA_N

ClientSampleId :

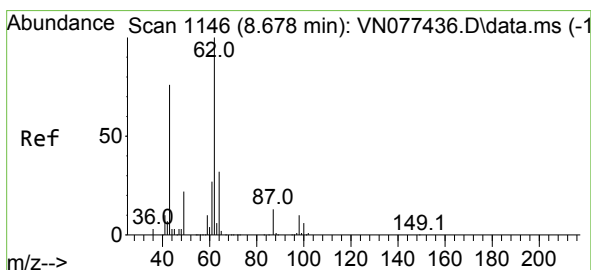
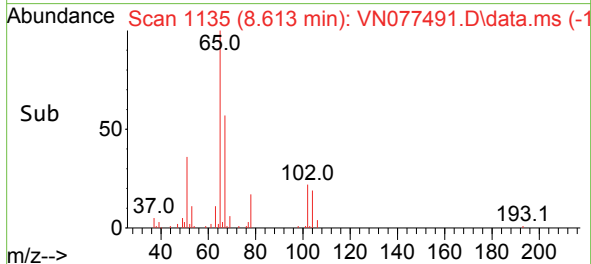
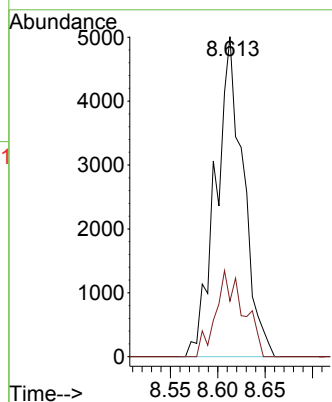
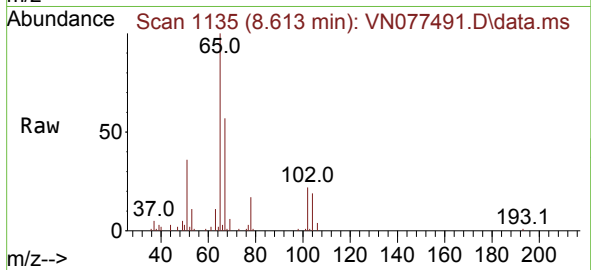
GWOW-06B-40-45-042623

Tgt Ion: 78 Resp: 10101

Ion Ratio Lower Upper

78 100

77 17.3 19.0 28.6#



#42

1,2-Dichloroethane

Concen: 4.229 ug/l

RT: 8.678 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN077491.D

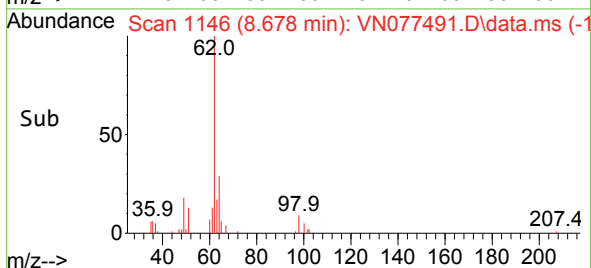
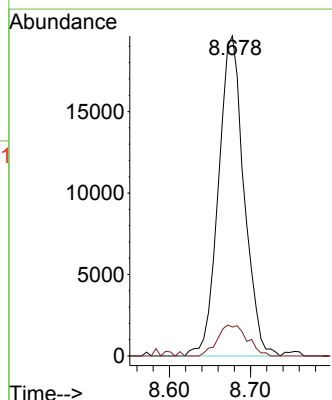
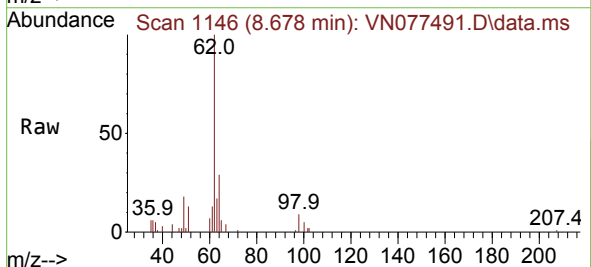
Acq: 27 Apr 2023 12:24

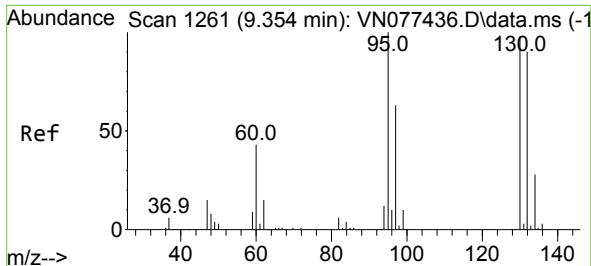
Tgt Ion: 62 Resp: 42949

Ion Ratio Lower Upper

62 100

98 11.3 0.0 19.8

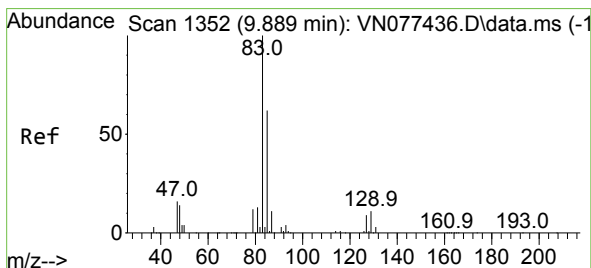
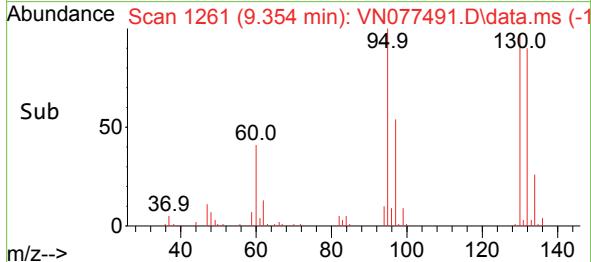
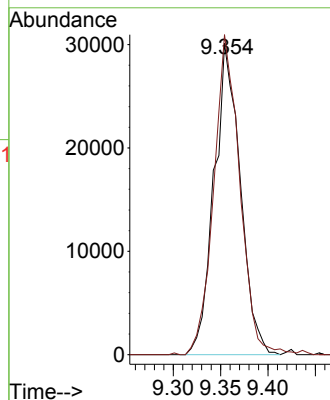
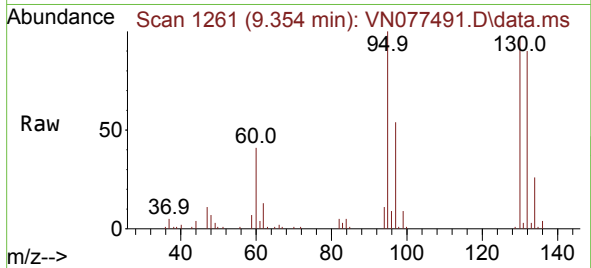




#44
Trichloroethene
Concen: 7.657 ug/l
RT: 9.354 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

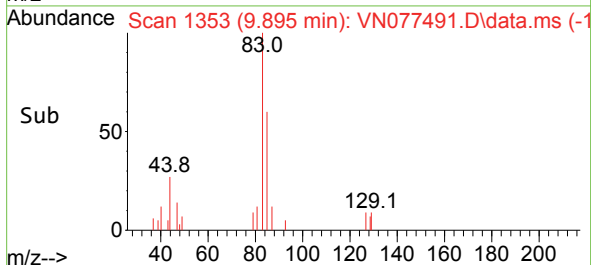
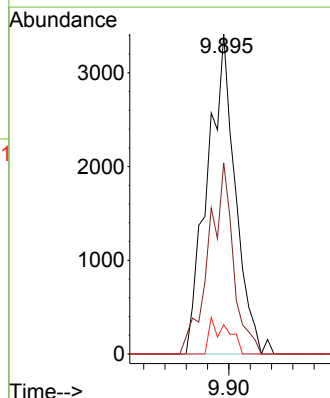
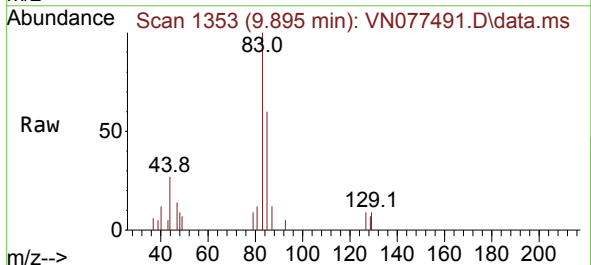
Instrument :
MSVOA_N
ClientSampleId :
GWOW-06B-40-45-042623

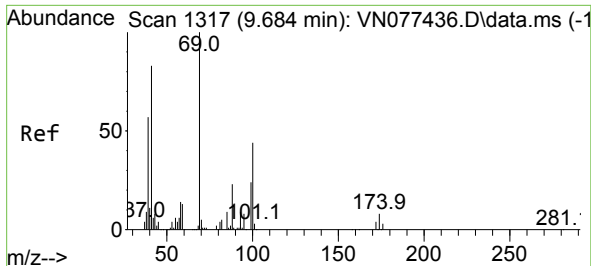
Tgt Ion:130 Resp: 57970
Ion Ratio Lower Upper
130 100
95 102.8 0.0 204.6



#47
Bromodichloromethane
Concen: 0.572 ug/l
RT: 9.895 min Scan# 1353
Delta R.T. 0.006 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

Tgt Ion: 83 Resp: 6220
Ion Ratio Lower Upper
83 100
85 59.7 49.6 74.4
127 9.2 7.0 10.6





#48

Methyl methacrylate

Concen: 0.779 ug/l

RT: 9.672 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN077491.D

Acq: 27 Apr 2023 12:24

Instrument :

MSVOA_N

ClientSampleId :

GWOW-06B-40-45-042623

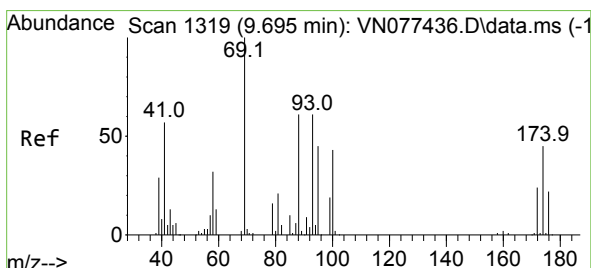
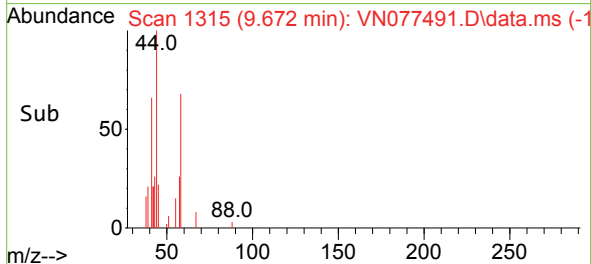
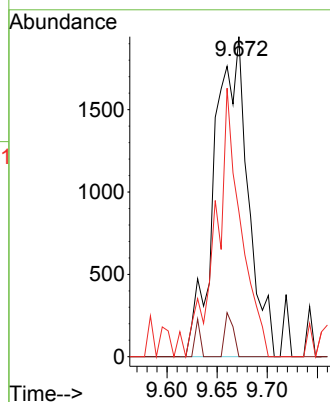
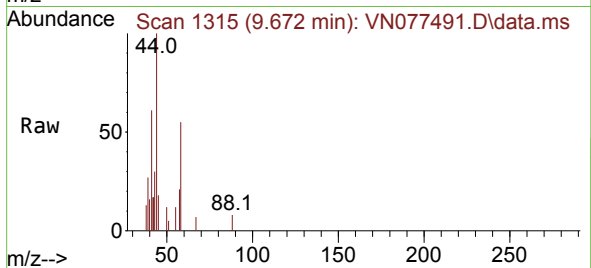
Tgt Ion: 41 Resp: 4523

Ion Ratio Lower Upper

41 100

69 3.5 90.4 135.6#

39 63.5 54.6 81.8



#49

1,4-Dioxane

Concen: 50.678 ug/l

RT: 9.701 min Scan# 1320

Delta R.T. 0.006 min

Lab File: VN077491.D

Acq: 27 Apr 2023 12:24

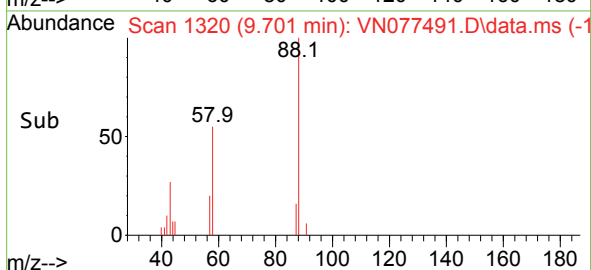
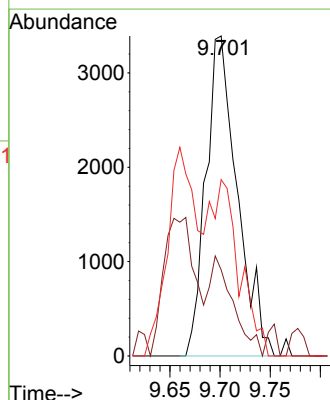
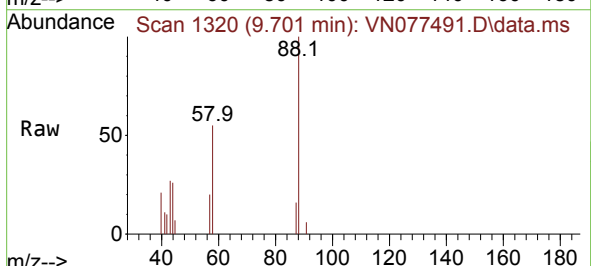
Tgt Ion: 88 Resp: 7383

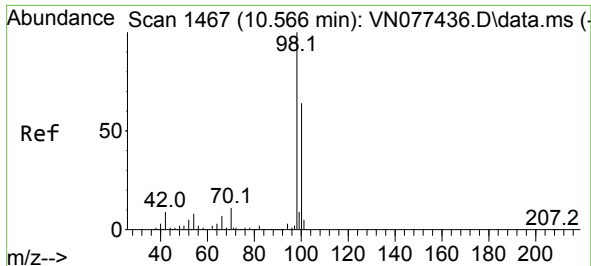
Ion Ratio Lower Upper

88 100

43 23.8 17.0 25.6

58 51.7 47.0 70.4

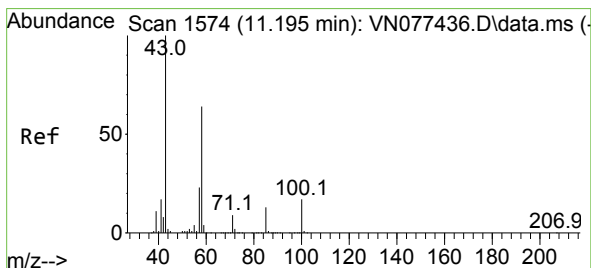
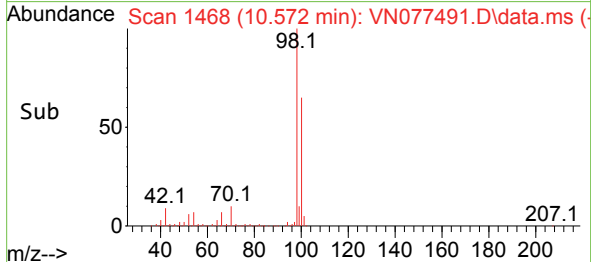
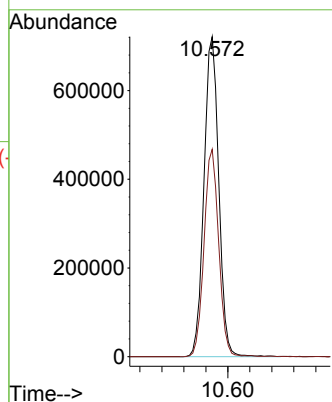
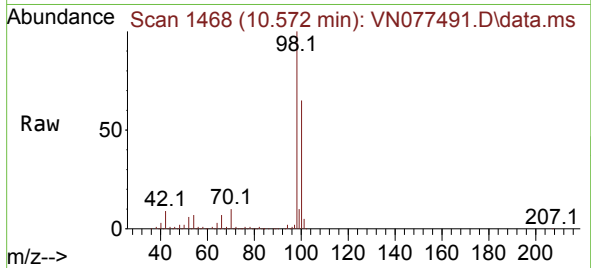




#50
Toluene-d8
Concen: 52.177 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

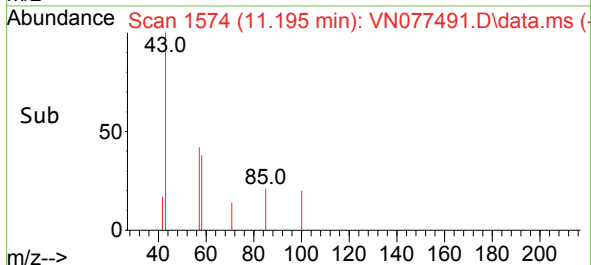
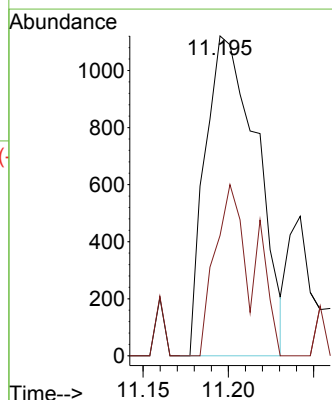
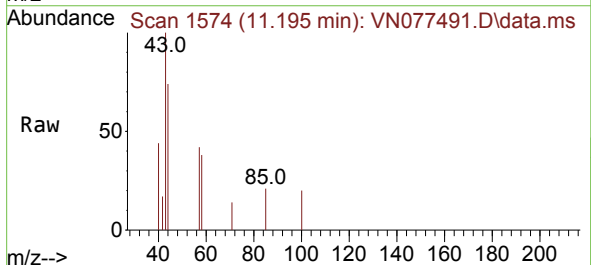
Instrument :
MSVOA_N
ClientSampleId :
GWOW-06B-40-45-042623

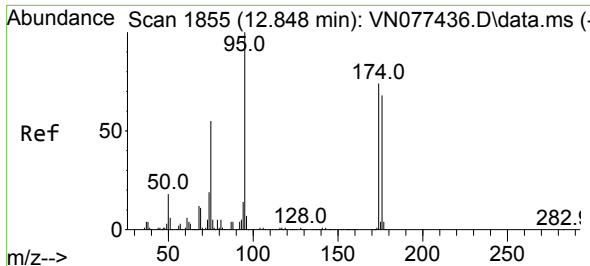
Tgt Ion: 98 Resp: 1343456
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0



#59
2-Hexanone
Concen: 0.434 ug/l
RT: 11.195 min Scan# 1574
Delta R.T. -0.000 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

Tgt Ion: 43 Resp: 2363
Ion Ratio Lower Upper
43 100
58 39.4 31.7 95.1

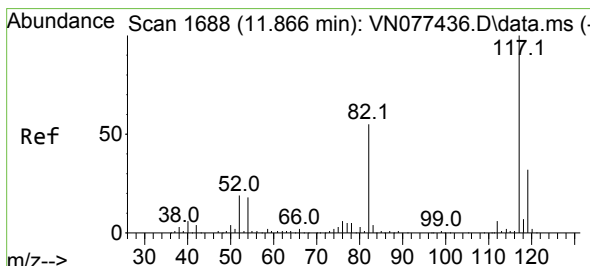
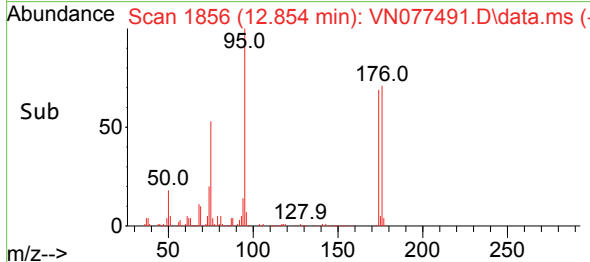
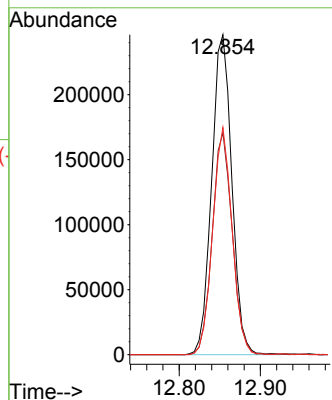
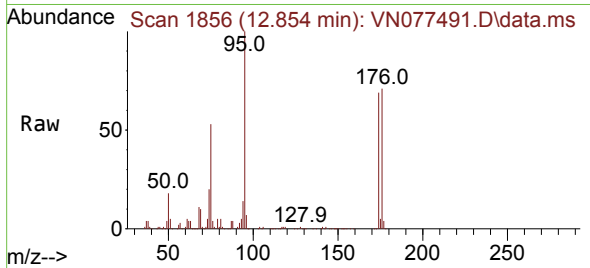




#62
4-Bromofluorobenzene
Concen: 50.419 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

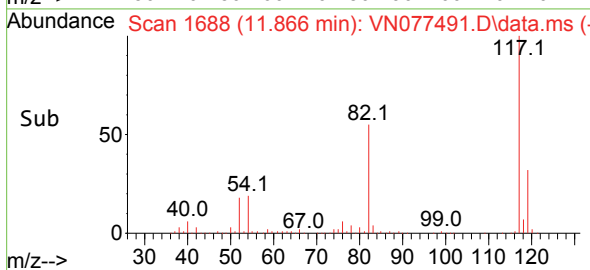
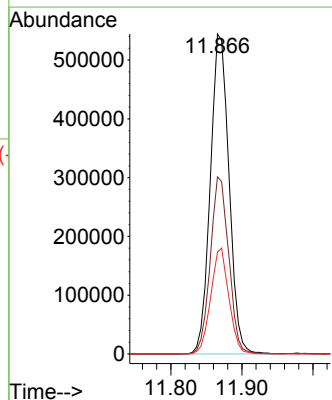
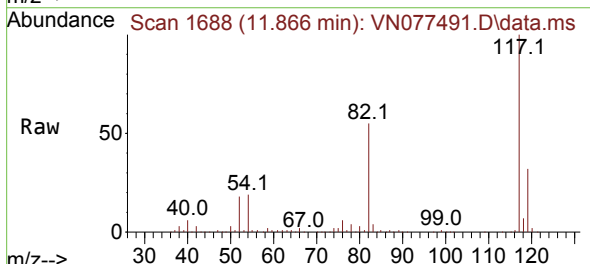
Instrument :
MSVOA_N
ClientSampleId :
GWOW-06B-40-45-042623

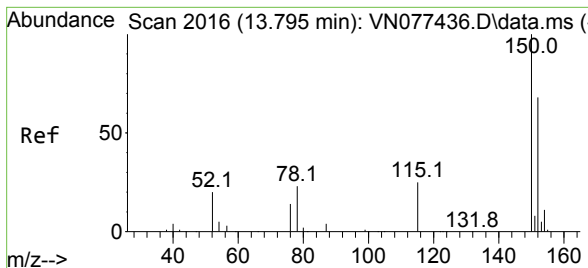
Tgt Ion: 95 Resp: 424741
Ion Ratio Lower Upper
95 100
174 68.7 0.0 143.8
176 68.6 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

Tgt Ion: 117 Resp: 994738
Ion Ratio Lower Upper
117 100
82 55.3 44.0 66.0
119 31.9 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN077491.D

Acq: 27 Apr 2023 12:24

Instrument :

MSVOA_N

ClientSampleId :

GWOW-06B-40-45-042623

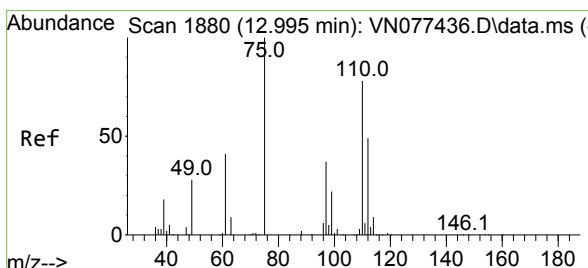
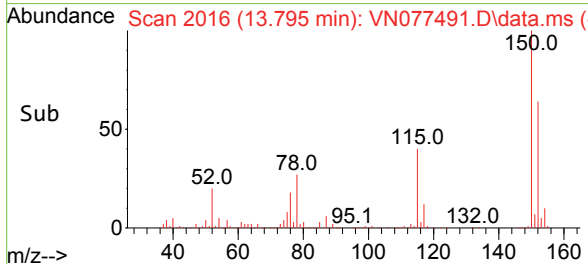
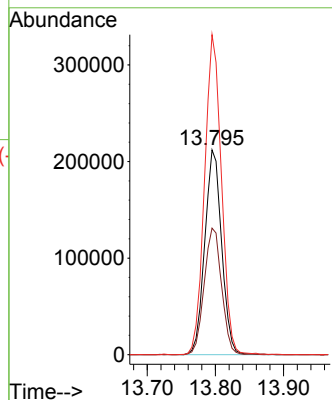
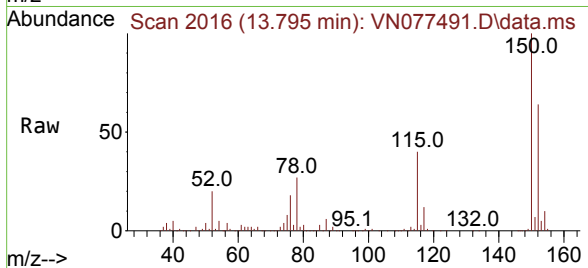
Tgt Ion:152 Resp: 365277

Ion Ratio Lower Upper

152 100

115 63.7 32.3 96.8

150 156.5 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 26.972 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077491.D

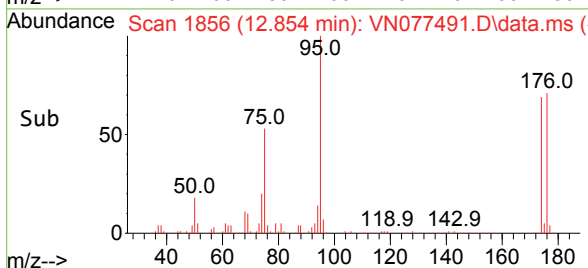
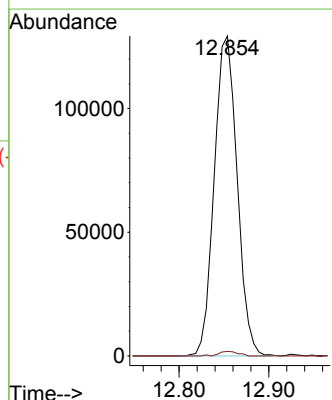
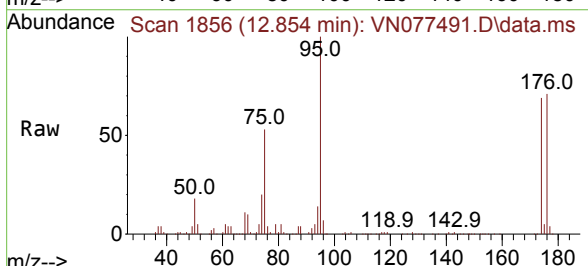
Acq: 27 Apr 2023 12:24

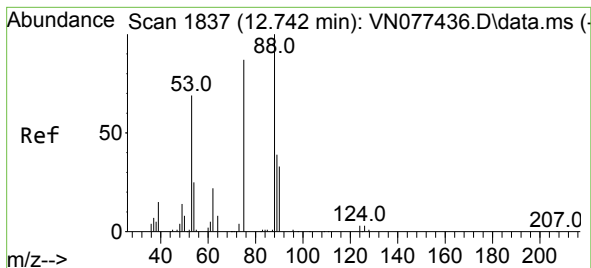
Tgt Ion: 75 Resp: 229100

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#

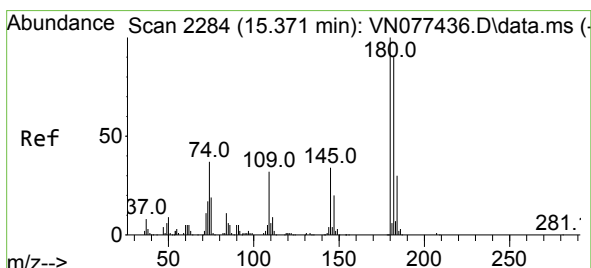
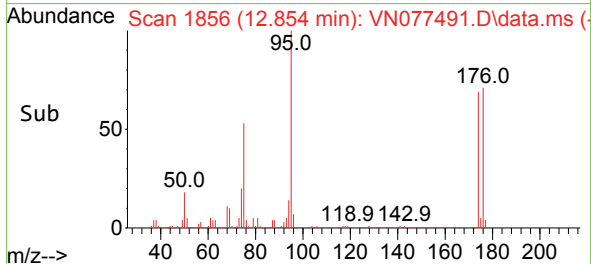
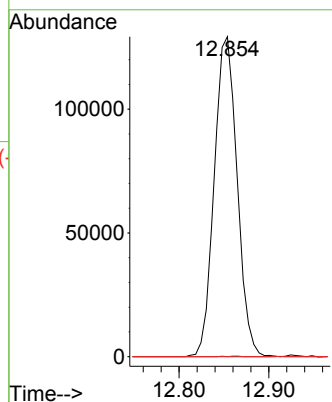
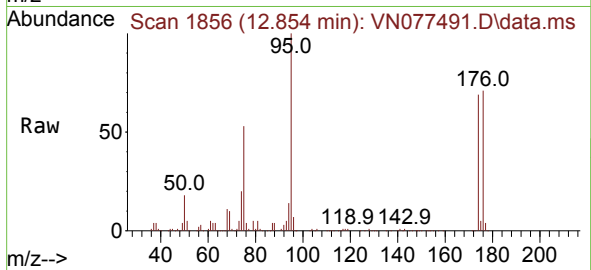




#81
trans-1,4-Dichloro-2-butene
Concen: 76.199 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

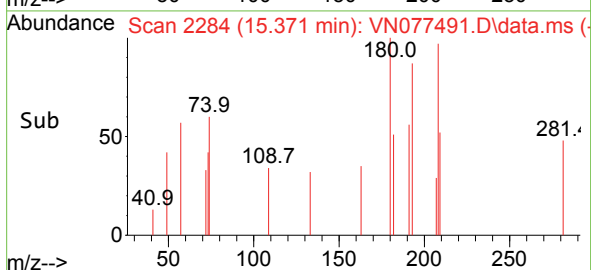
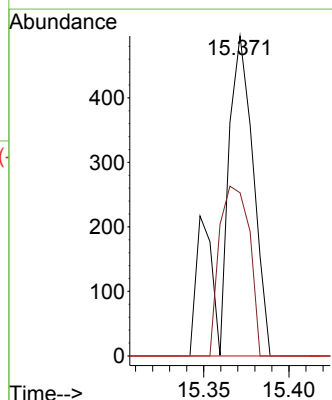
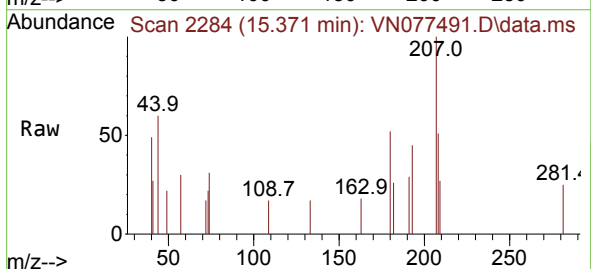
Instrument :
MSVOA_N
ClientSampleId :
GWOW-06B-40-45-042623

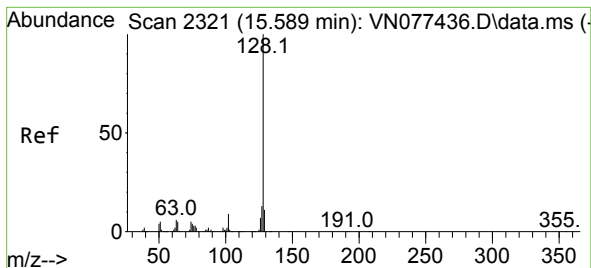
Tgt Ion: 75 Resp: 229100
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#



#93
1,2,4-Trichlorobenzene
Concen: 1.032 ug/l
RT: 15.371 min Scan# 2284
Delta R.T. 0.000 min
Lab File: VN077491.D
Acq: 27 Apr 2023 12:24

Tgt Ion:180 Resp: 623
Ion Ratio Lower Upper
180 100
182 51.7 46.1 138.2
145 0.0 16.6 49.8#





#95

Naphthalene

Concen: 1.361 ug/l

RT: 15.589 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN077491.D

Acq: 27 Apr 2023 12:24

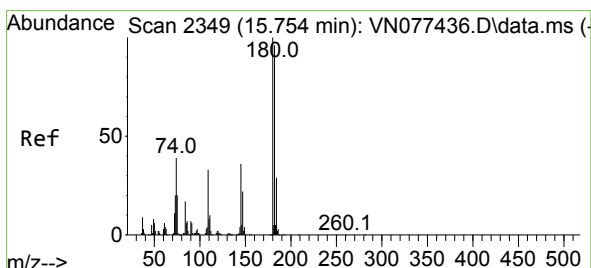
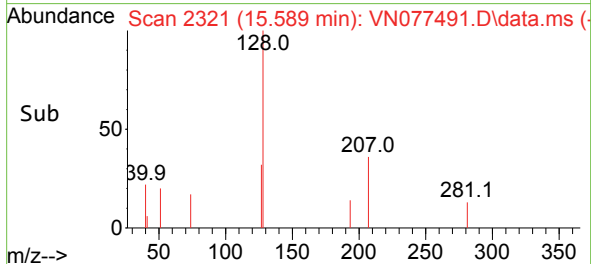
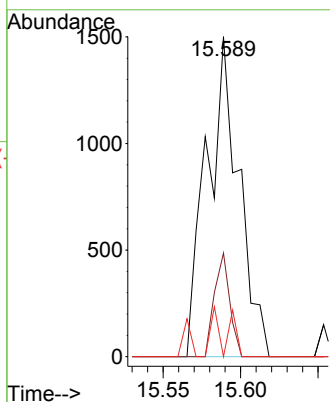
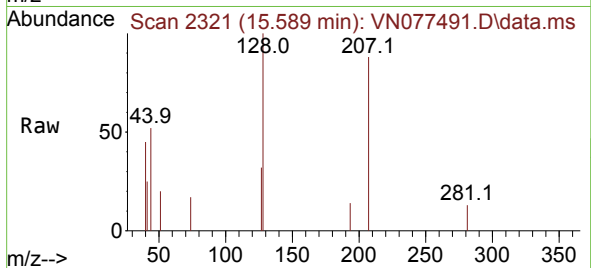
Instrument :

MSVOA_N

ClientSampleId :

GWOW-06B-40-45-042623

Tgt Ion:128	Resp:	2155
Ion Ratio	Lower	Upper
128	100	
127	15.5	10.0 15.0#
129	7.4	8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.521 ug/l

RT: 15.754 min Scan# 2349

Delta R.T. -0.000 min

Lab File: VN077491.D

Acq: 27 Apr 2023 12:24

Tgt Ion:180	Resp:	116
Ion Ratio	Lower	Upper
180	100	
182	280.2	46.2 138.6#
145	63.8	17.5 52.6#

