

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062023\
 Data File : VN078304.D
 Acq On : 20 Jun 2023 13:00
 Operator : JC\MD
 Sample : 03338-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GWOW-BR-05-248-268-061923

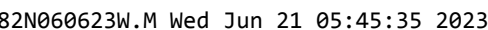
Quant Time: Jun 21 05:45:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

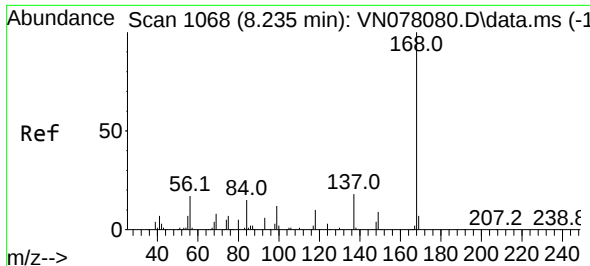
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	684632	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	1161140	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	744157	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	230114	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	418103	45.803	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.600%		
35) Dibromofluoromethane	8.177	113	409597	55.790	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	111.580%		
50) Toluene-d8	10.571	98	990621	35.000	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	70.000%#		
62) 4-Bromofluorobenzene	12.853	95	317451	36.079	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	72.160%#		
Target Compounds						Qvalue
3) Chloromethane	2.371	50	1077	Below Cal		91
4) Vinyl Chloride	2.524	62	4935	0.487 ug/l #		80
5) Bromomethane	2.977	94	1831	0.239 ug/l		83
9) 1,1,2-Trichlorotrifluo...	4.353	101	3389	0.467 ug/l #		29
12) 1,1-Dichloroethene	4.353	96	759646	101.609 ug/l		90
16) Acetone	4.442	43	1438	0.547 ug/l #		68
18) Methyl Acetate	5.059	43	3549	0.293 ug/l #		57
21) trans-1,2-Dichloroethene	5.806	96	55405	6.871 ug/l		94
24) 1,1-Dichloroethane	6.583	63	83306	5.883 ug/l		99
27) cis-1,2-Dichloroethene	7.494	96	450782	46.867 ug/l		97
29) Tetrahydrofuran	7.847	42	797	0.295 ug/l #		20
31) Cyclohexane	8.230	56	14163	1.210 ug/l #		42
36) 1,1-Dichloropropene	8.230	75	53066	5.039 ug/l #		49
38) Carbon Tetrachloride	8.235	117	67768	6.094 ug/l #		17
39) Methylcyclohexane	9.365	83	6953	0.637 ug/l #		1
40) Benzene	8.612	78	7360	0.234 ug/l		98
42) 1,2-Dichloroethane	8.677	62	48801	4.527 ug/l		99
43) Isopropyl Acetate	8.730	43	9211	0.585 ug/l #		55
44) Trichloroethene	9.359	130	536203	64.582 ug/l		95
49) 1,4-Dioxane	9.700	88	10569	76.162 ug/l #		89
52) Toluene	10.635	92	453674	22.855 ug/l		95
71) Bromoform	12.853	173	2815	0.744 ug/l #		1
75) 1,1,2,2-Tetrachloroethane	12.941	83	55	Below Cal #		56
76) 1,2,3-Trichloropropane	12.853	75	170605	31.361 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	170605	96.352 ug/l #		15
94) Hexachlorobutadiene	15.506	225	201	Below Cal #		19

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

Quant Time: Jun 21 05:45:25 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration

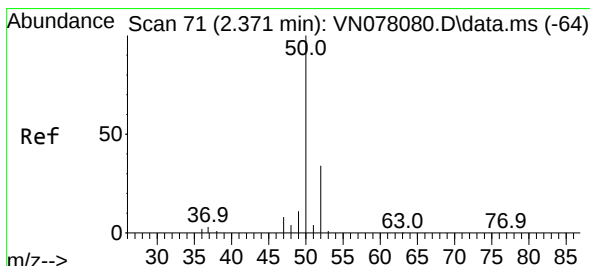
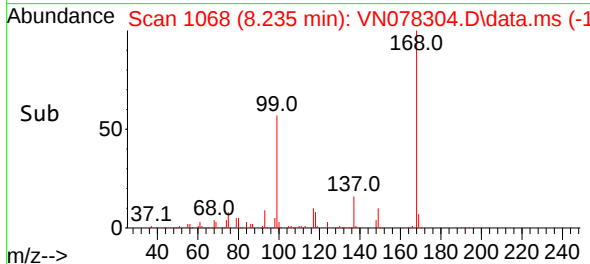
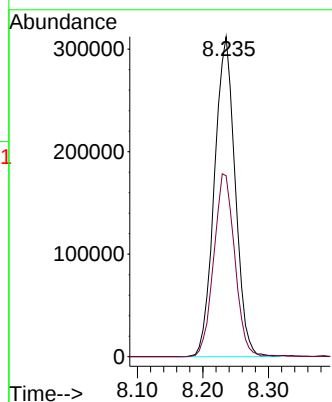
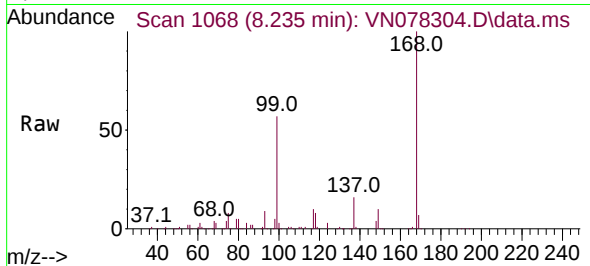




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

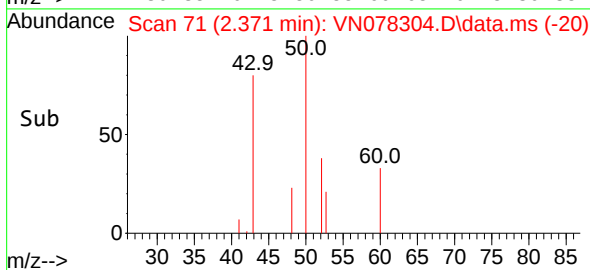
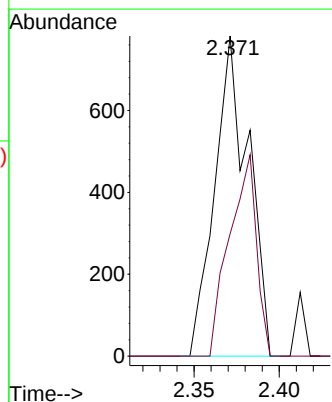
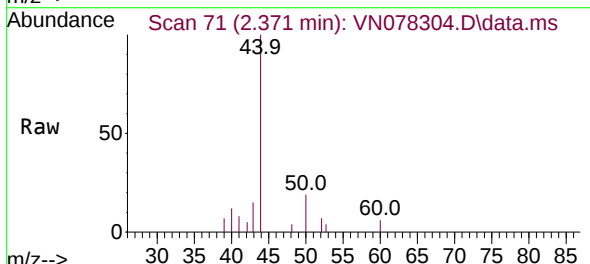
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923

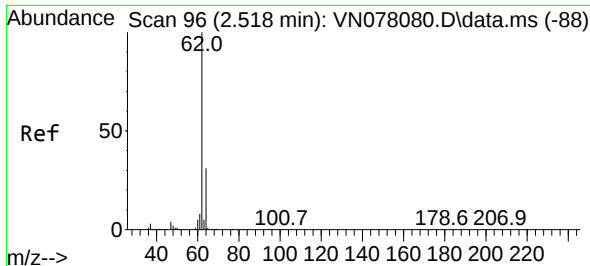
Tgt Ion:168 Resp: 684632
Ion Ratio Lower Upper
168 100
99 56.5 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

Tgt Ion: 50 Resp: 1077
Ion Ratio Lower Upper
50 100
52 38.2 26.5 39.7

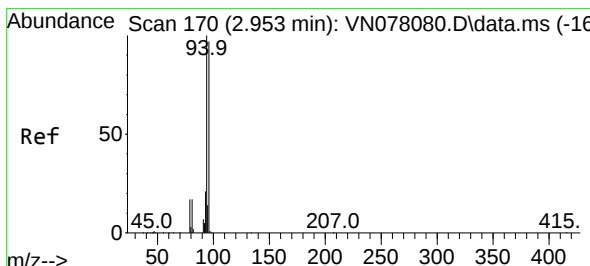
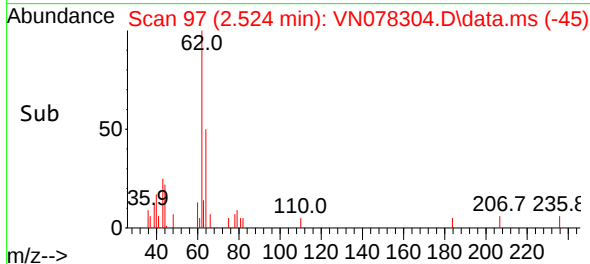
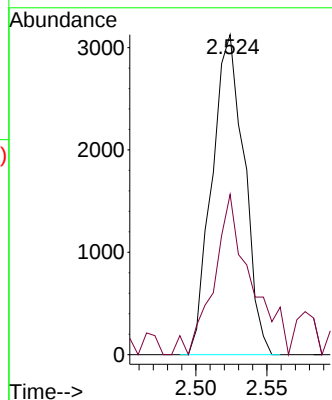
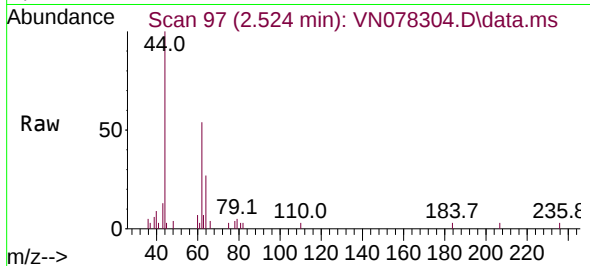




#4
 Vinyl Chloride
 Concen: 0.487 ug/l
 RT: 2.524 min Scan# 91
 Delta R.T. 0.006 min
 Lab File: VN078304.D
 Acq: 20 Jun 2023 13:00

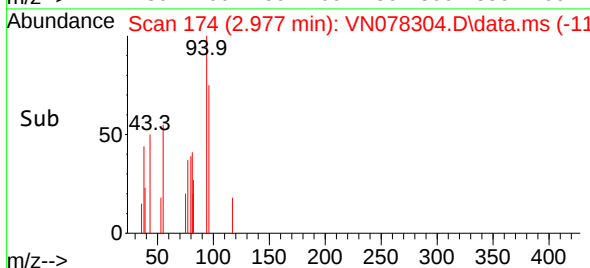
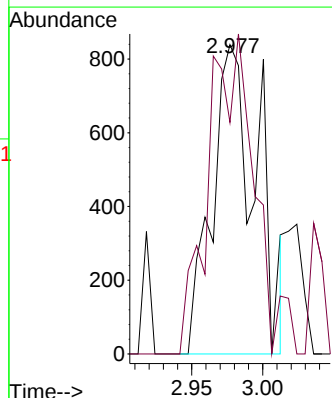
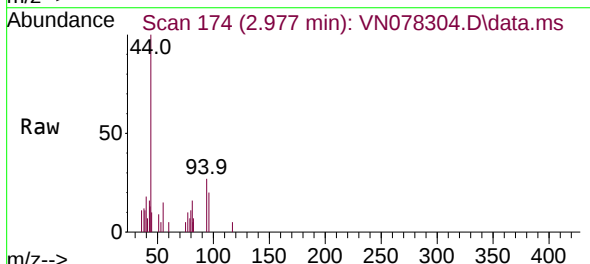
Instrument :
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 ClientSampleId :
 GWOW-BR-05-248-268-061923

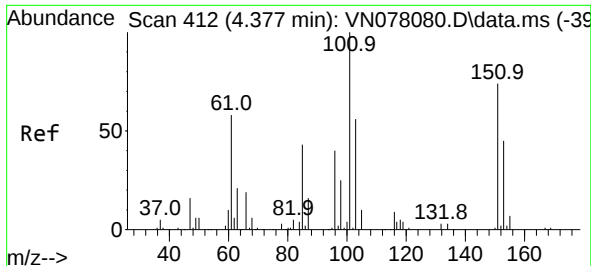
Tgt Ion: 62 Resp: 4935
 Ion Ratio Lower Upper
 62 100
 64 44.1 26.2 39.2#



#5
 Bromomethane
 Concen: 0.239 ug/l
 RT: 2.977 min Scan# 174
 Delta R.T. 0.024 min
 Lab File: VN078304.D
 Acq: 20 Jun 2023 13:00

Tgt Ion: 94 Resp: 1831
 Ion Ratio Lower Upper
 94 100
 96 74.9 73.1 109.7

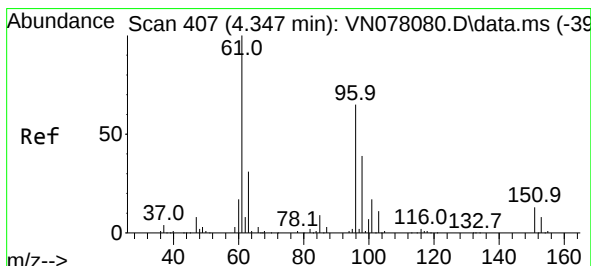
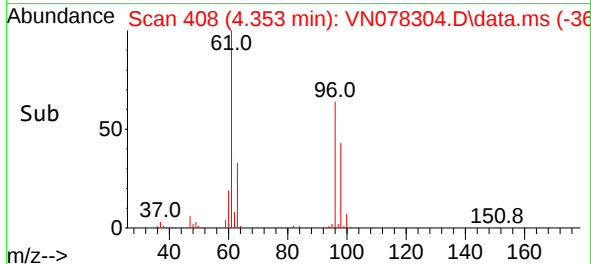
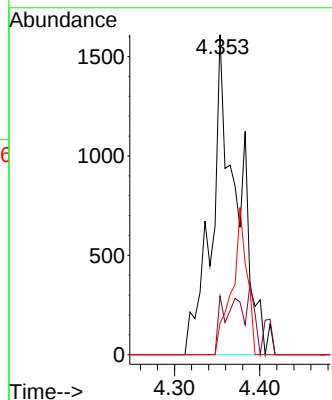
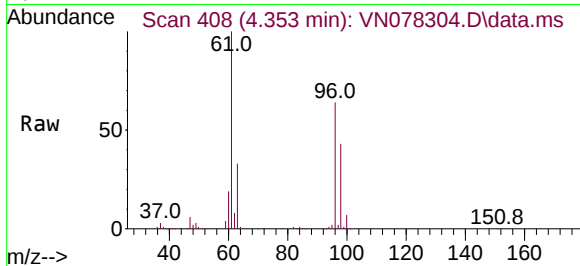




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.467 ug/l
 RT: 4.353 min Scan# 408
 Delta R.T. -0.024 min
 Lab File: VN078304.D
 Acq: 20 Jun 2023 13:00

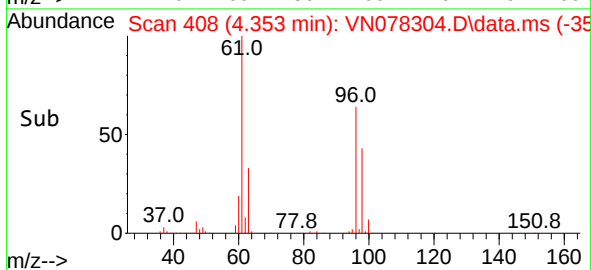
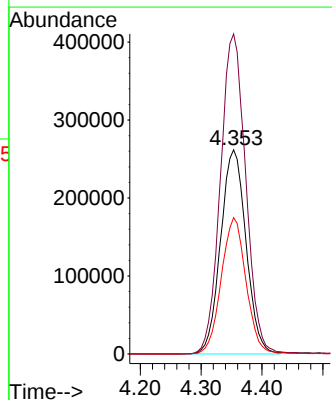
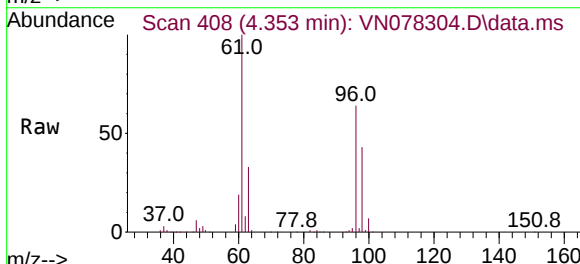
Instrument :
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 GWOW-BR-05-248-268-061923

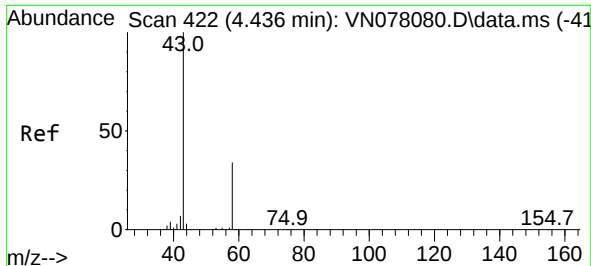
Tgt Ion:101 Resp: 3389
 Ion Ratio Lower Upper
 101 100
 85 14.4 36.6 55.0#
 151 0.0 57.6 86.4#



#12
 1,1-Dichloroethene
 Concen: 101.609 ug/l
 RT: 4.353 min Scan# 408
 Delta R.T. 0.006 min
 Lab File: VN078304.D
 Acq: 20 Jun 2023 13:00

Tgt Ion: 96 Resp: 759646
 Ion Ratio Lower Upper
 96 100
 61 156.7 112.7 169.1
 98 66.7 51.2 76.8





#16

Acetone

Concen: 0.547 ug/l

RT: 4.442 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN078304.D

Acq: 20 Jun 2023 13:00

Instrument :

MSVOA_N

ClientSampleId :

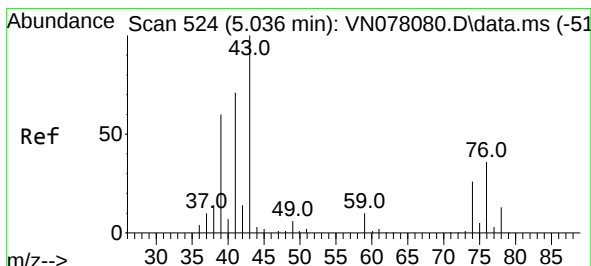
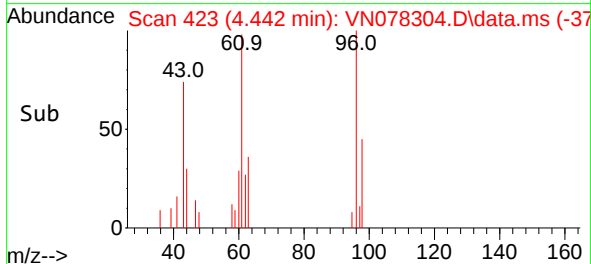
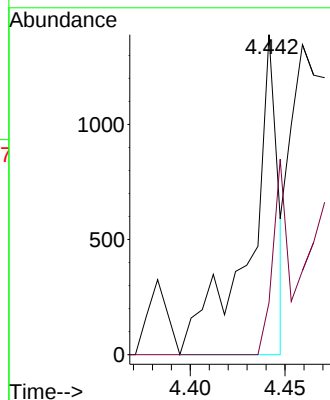
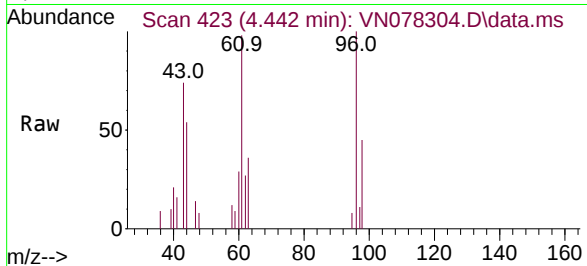
GWOW-BR-05-248-268-061923

Tgt Ion: 43 Resp: 1438

Ion Ratio Lower Upper

43 100

58 16.3 28.0 42.0#



#18

Methyl Acetate

Concen: 0.293 ug/l

RT: 5.059 min Scan# 528

Delta R.T. 0.024 min

Lab File: VN078304.D

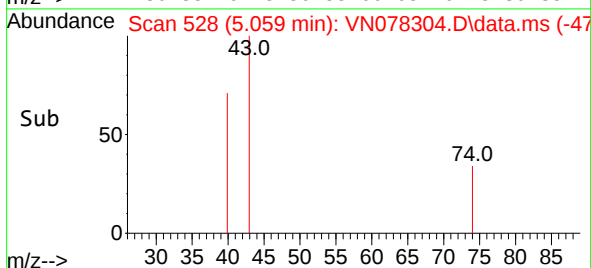
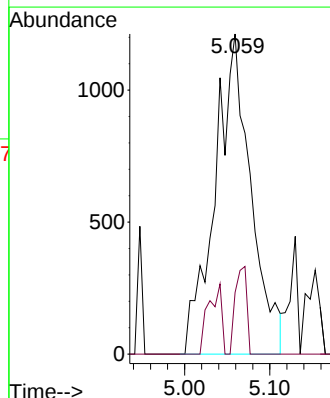
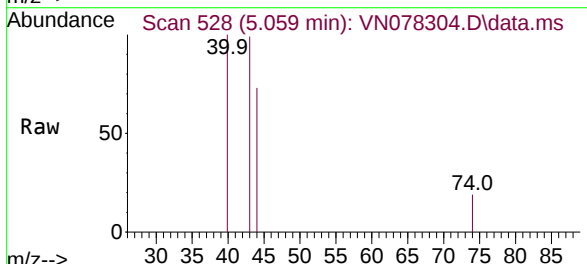
Acq: 20 Jun 2023 13:00

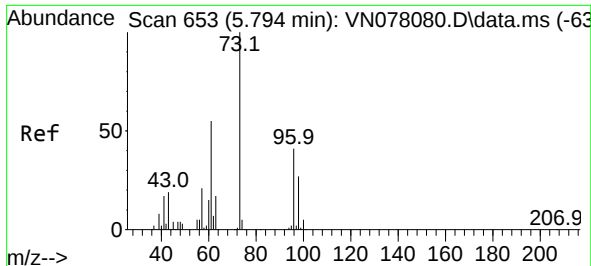
Tgt Ion: 43 Resp: 3549

Ion Ratio Lower Upper

43 100

74 8.8 26.2 39.4#

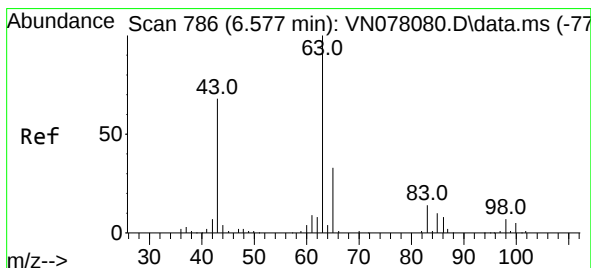
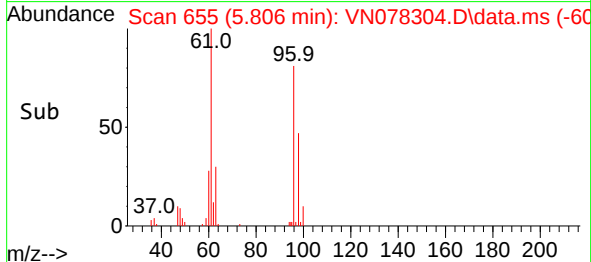
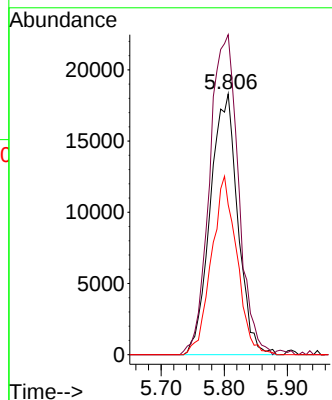
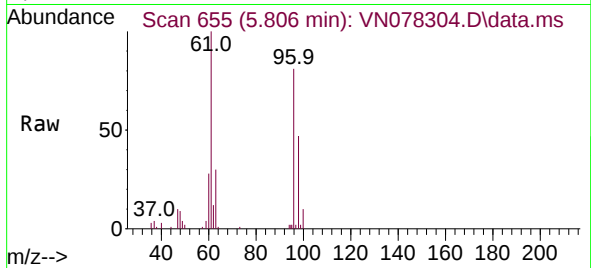




#21
trans-1,2-Dichloroethene
Concen: 6.871 ug/l
RT: 5.806 min Scan# 61
Delta R.T. 0.012 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

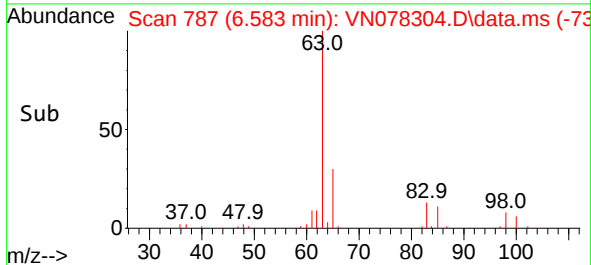
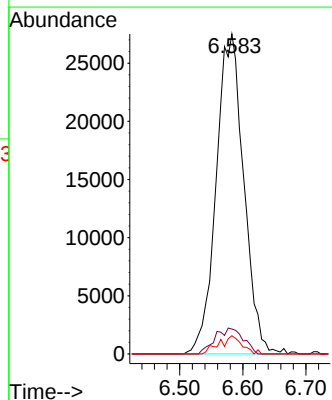
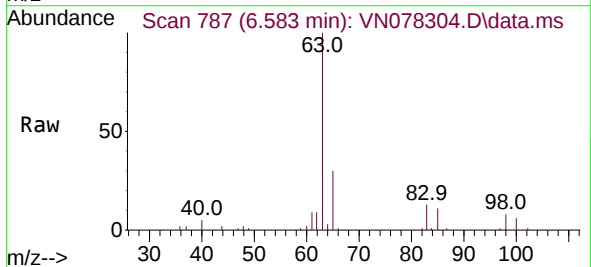
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923

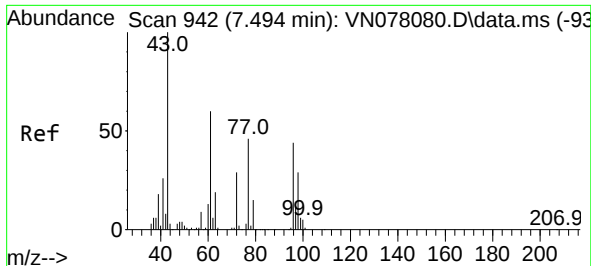
Tgt Ion: 96 Resp: 55405
Ion Ratio Lower Upper
96 100
61 122.7 90.1 135.1
98 57.5 46.4 69.6



#24
1,1-Dichloroethane
Concen: 5.883 ug/l
RT: 6.583 min Scan# 787
Delta R.T. 0.006 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

Tgt Ion: 63 Resp: 83306
Ion Ratio Lower Upper
63 100
98 7.8 3.9 11.7
100 5.7 2.5 7.4



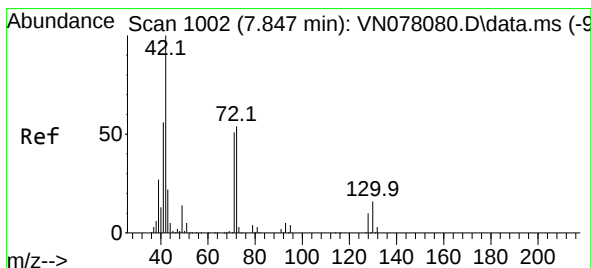
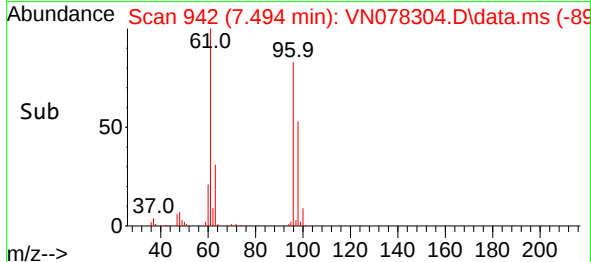
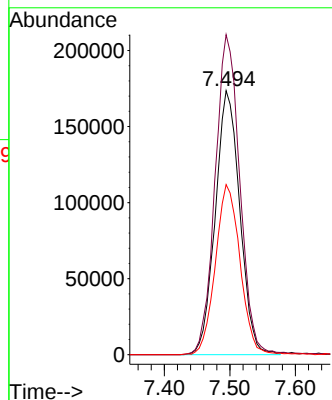
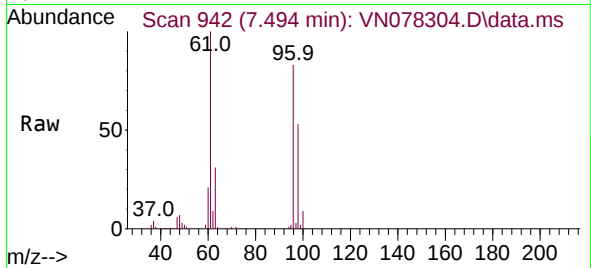


#27
 cis-1,2-Dichloroethene
 Concen: 46.867 ug/l
 RT: 7.494 min Scan# 942
 Delta R.T. 0.000 min
 Lab File: VN078304.D
 Acq: 20 Jun 2023 13:00

Instrument :
 MSVOA_N
 ClientSampleId :
 GWOW-BR-05-248-268-061923

Tgt Ion: 96 Resp: 450782

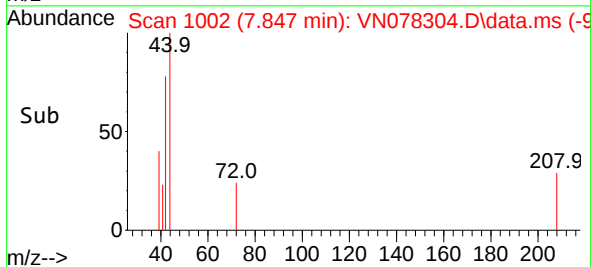
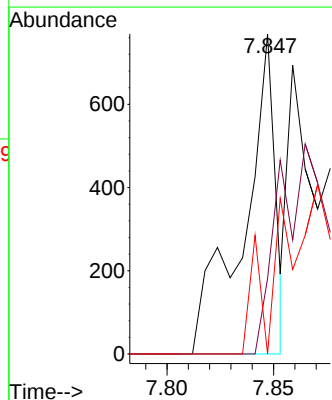
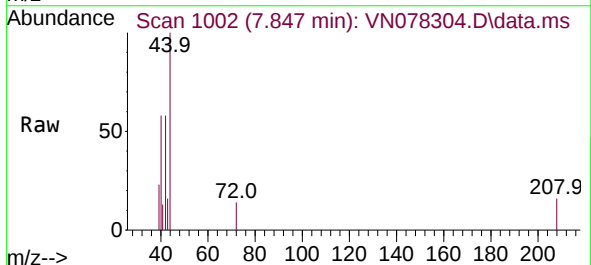
Ion	Ratio	Lower	Upper
96	100		
61	122.5	0.0	255.2
98	65.2	0.0	128.8

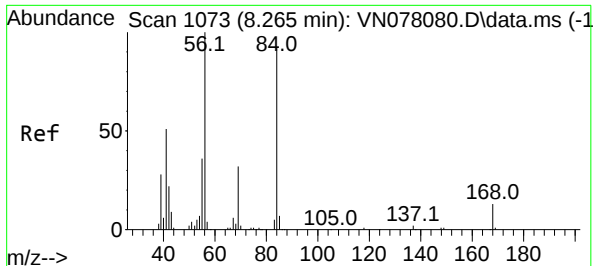


#29
 Tetrahydrofuran
 Concen: 0.295 ug/l
 RT: 7.847 min Scan# 1002
 Delta R.T. 0.000 min
 Lab File: VN078304.D
 Acq: 20 Jun 2023 13:00

Tgt Ion: 42 Resp: 797

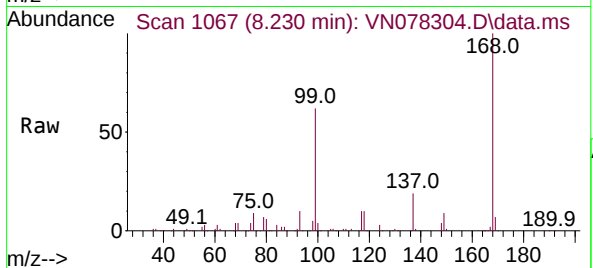
Ion	Ratio	Lower	Upper
42	100		
72	0.0	49.8	74.6#
71	0.0	47.4	71.2#



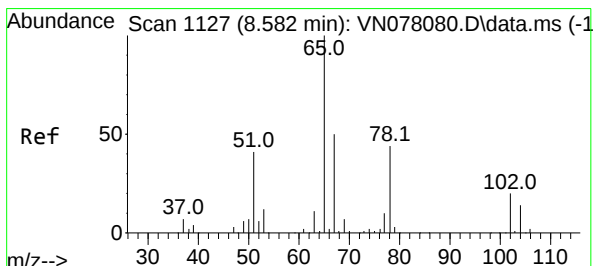
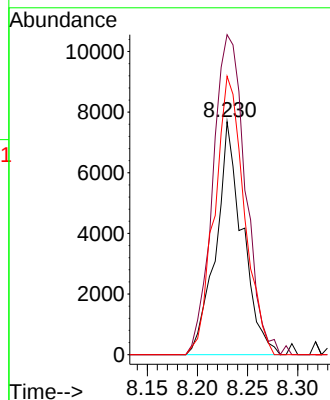
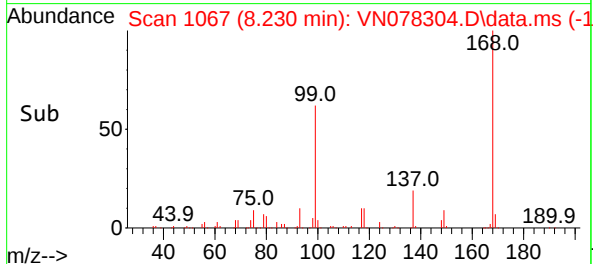


#31
Cyclohexane
Concen: 1.210 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923

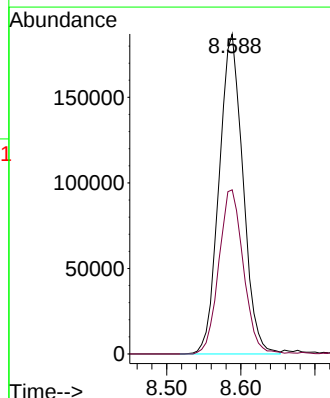
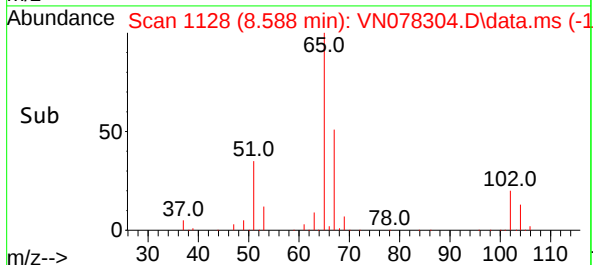
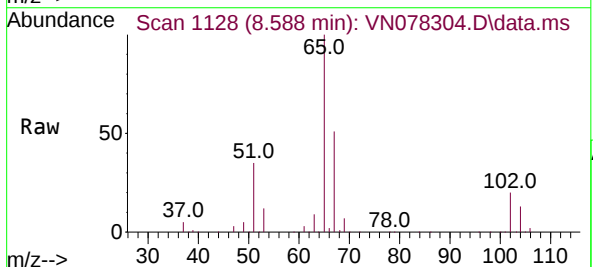


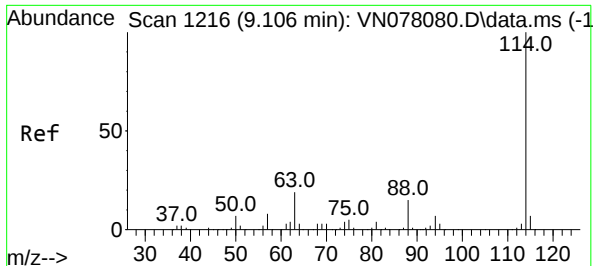
Tgt Ion: 56 Resp: 14163
Ion Ratio Lower Upper
56 100
69 137.3 26.8 40.2#
84 119.5 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 45.803 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

Tgt Ion: 65 Resp: 418103
Ion Ratio Lower Upper
65 100
67 52.8 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1161140

Delta R.T. 0.006 min

Lab File: VN078304.D

Acq: 20 Jun 2023 13:00

Instrument :

MSVOA_N

ClientSampleId :

GWOW-BR-05-248-268-061923

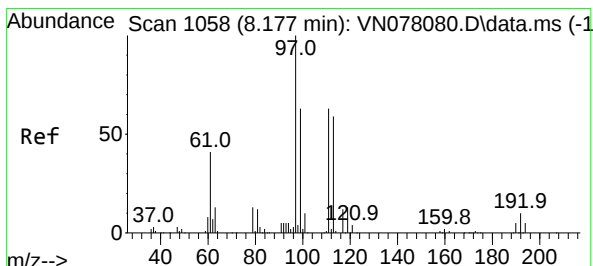
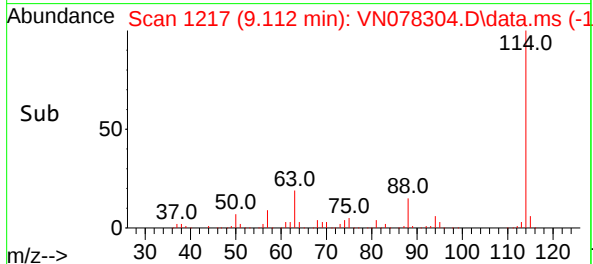
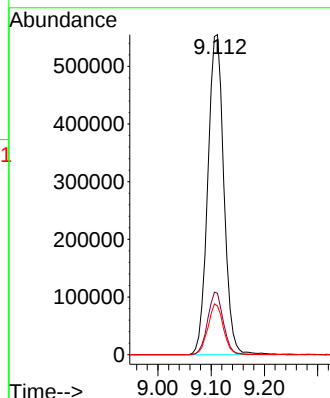
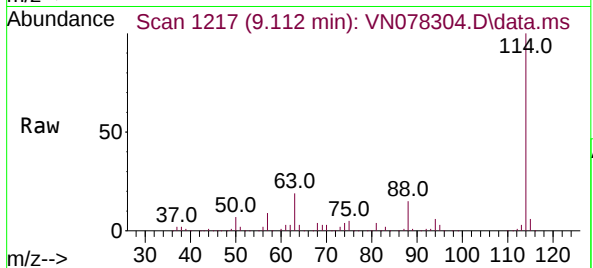
Tgt Ion:114 Resp: 1161140

Ion Ratio Lower Upper

114 100

63 19.2 0.0 36.4

88 15.2 0.0 30.6



#35

Dibromofluoromethane

Concen: 55.790 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078304.D

Acq: 20 Jun 2023 13:00

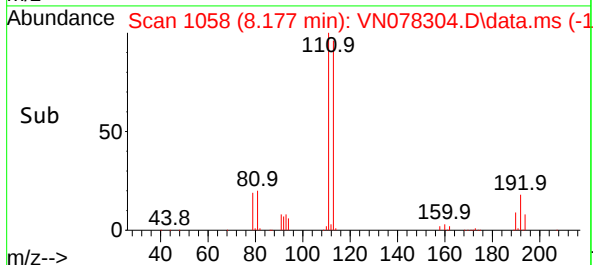
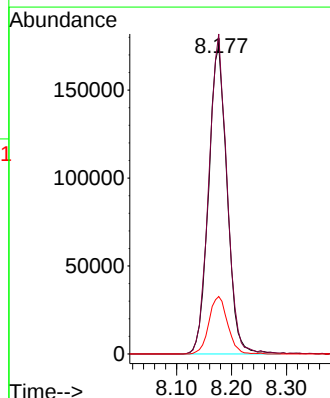
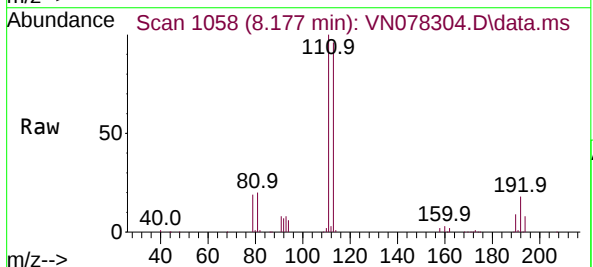
Tgt Ion:113 Resp: 409597

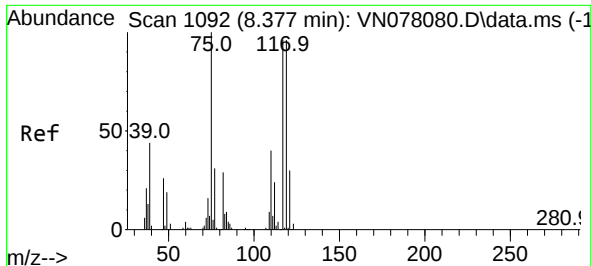
Ion Ratio Lower Upper

113 100

111 102.3 82.6 123.8

192 18.8 12.7 19.1

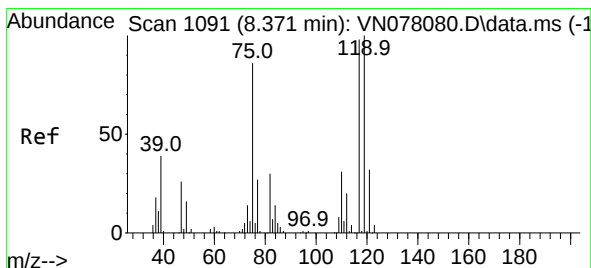
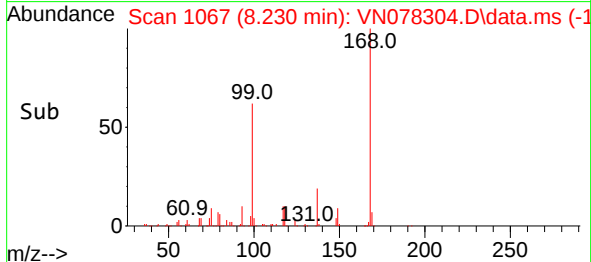
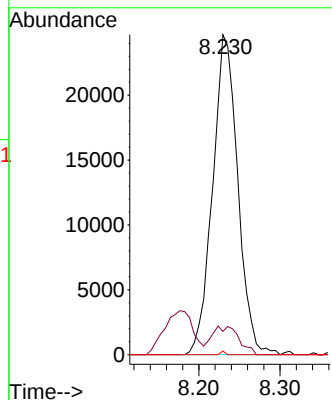
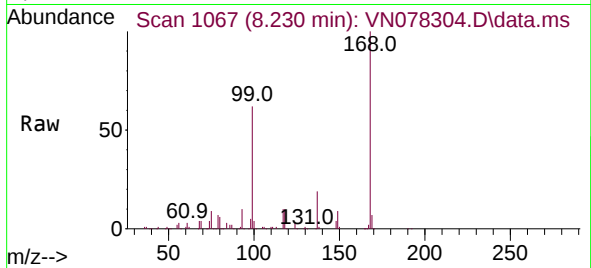




#36
1,1-Dichloropropene
Concen: 5.039 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

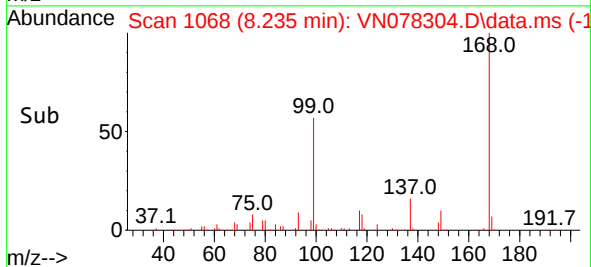
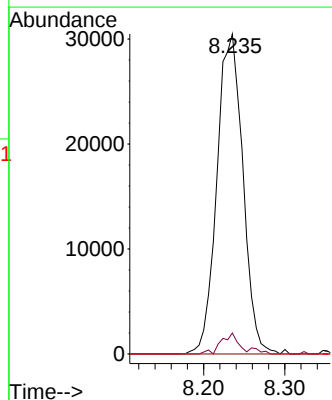
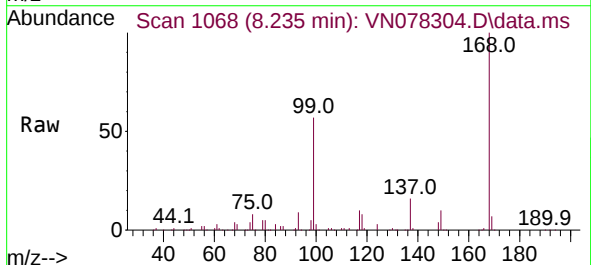
Instrument : MSVOA_N
ClientSampleId : GWOW-BR-05-248-268-061923

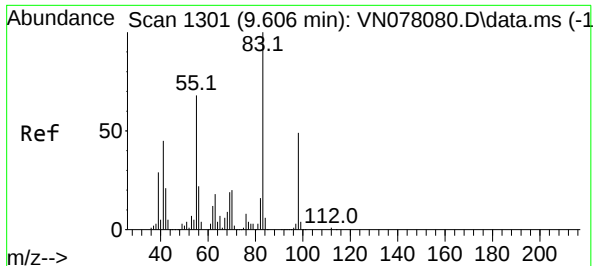
Tgt Ion: 75 Resp: 53066
Ion Ratio Lower Upper
75 100
110 9.5 19.1 57.3#
77 0.2 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 6.094 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

Tgt Ion: 117 Resp: 67768
Ion Ratio Lower Upper
117 100
119 6.6 77.3 115.9#
121 0.0 23.3 34.9#





#39

Methylcyclohexane

Concen: 0.637 ug/l

RT: 9.365 min Scan# 1126

Delta R.T. -0.241 min

Lab File: VN078304.D

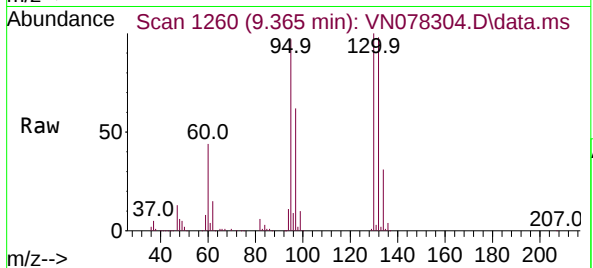
Acq: 20 Jun 2023 13:00

Instrument :

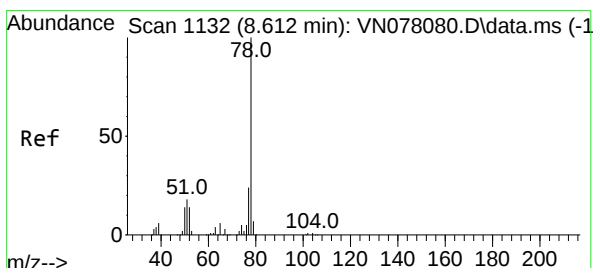
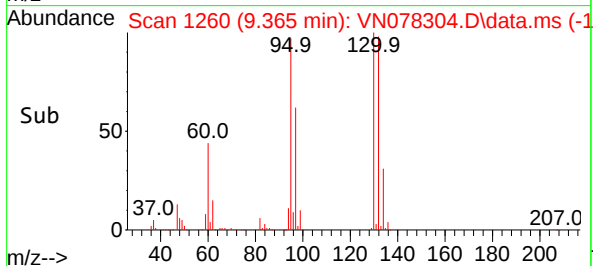
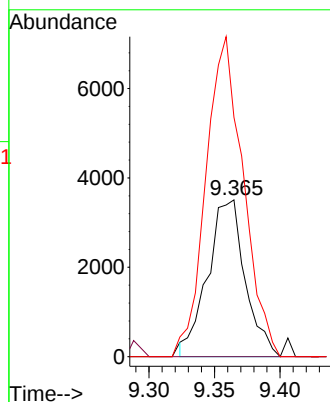
MSVOA_N

ClientSampleId :

GWOW-BR-05-248-268-061923



Tgt Ion:	83	Resp:	6953
Ion	Ratio	Lower	Upper
83	100		
55	0.0	49.1	73.7#
98	152.7	40.6	61.0#



#40

Benzene

Concen: 0.234 ug/l

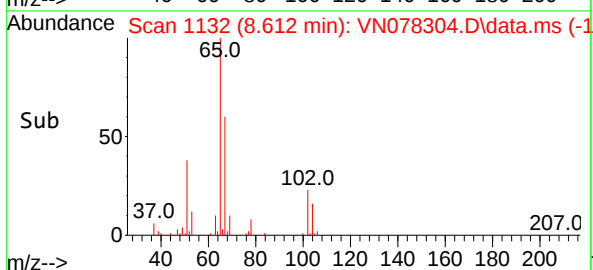
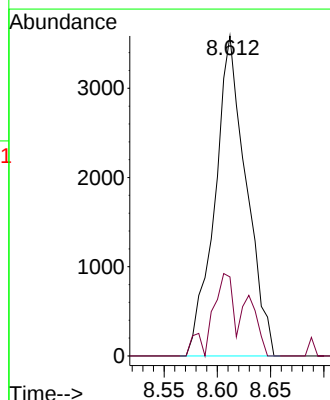
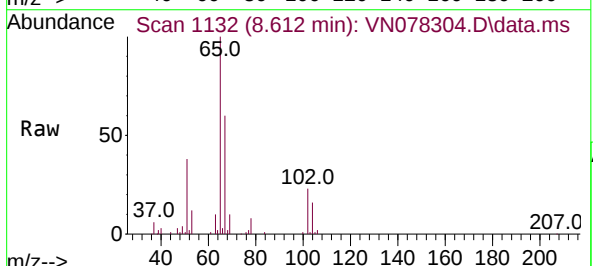
RT: 8.612 min Scan# 1132

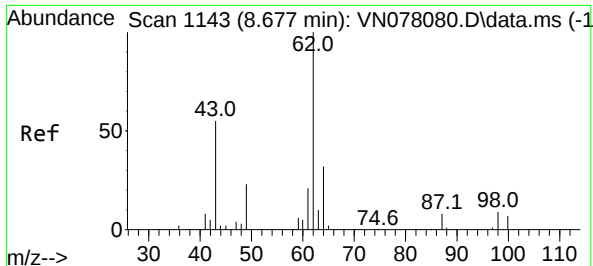
Delta R.T. 0.000 min

Lab File: VN078304.D

Acq: 20 Jun 2023 13:00

Tgt Ion:	78	Resp:	7360
Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.0	28.6





#42

1,2-Dichloroethane

Concen: 4.527 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VN078304.D

Acq: 20 Jun 2023 13:00

Instrument :

MSVOA_N

ClientSampleId :

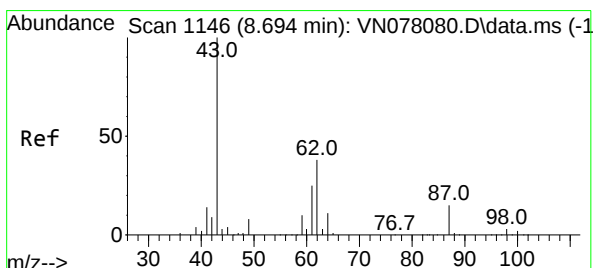
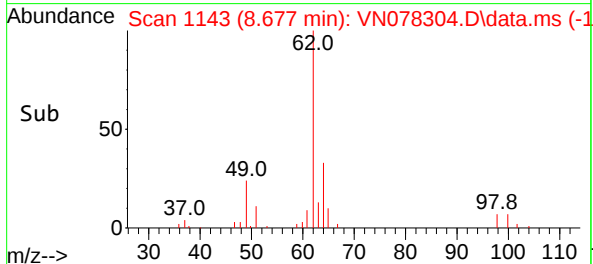
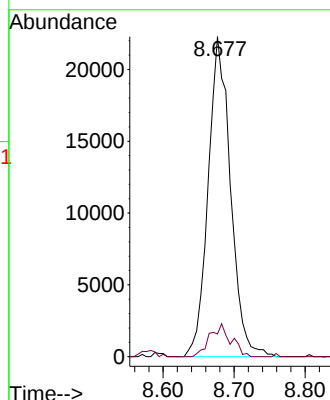
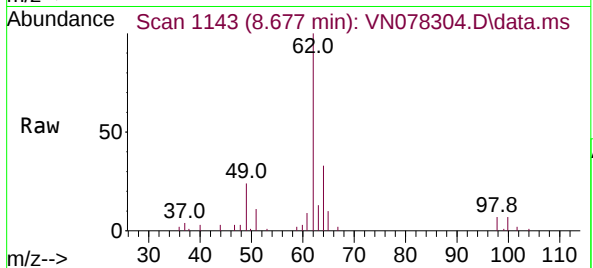
GWOW-BR-05-248-268-061923

Tgt Ion: 62 Resp: 48801

Ion Ratio Lower Upper

62 100

98 9.6 0.0 19.8



#43

Isopropyl Acetate

Concen: 0.585 ug/l

RT: 8.730 min Scan# 1152

Delta R.T. 0.035 min

Lab File: VN078304.D

Acq: 20 Jun 2023 13:00

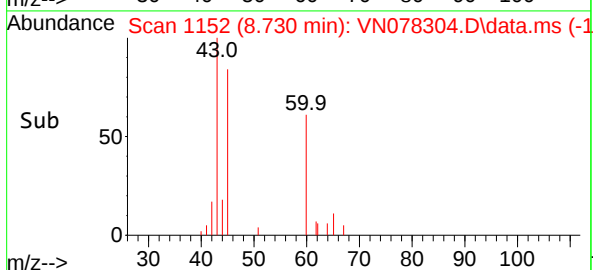
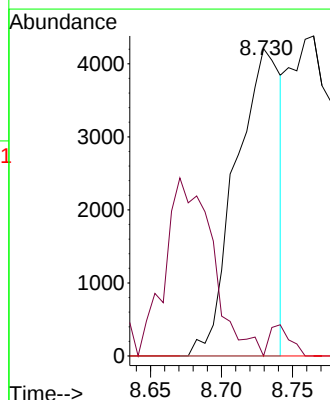
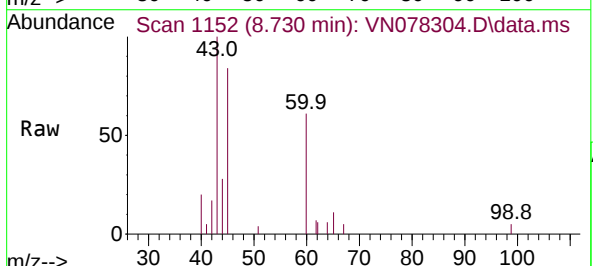
Tgt Ion: 43 Resp: 9211

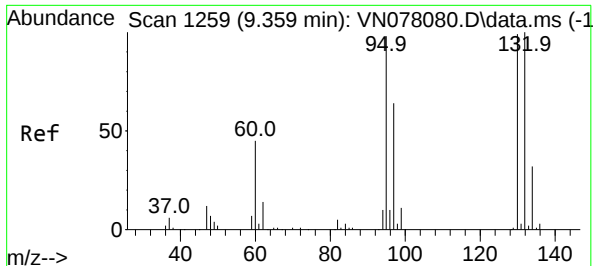
Ion Ratio Lower Upper

43 100

61 4.6 24.7 37.1#

87 0.0 14.6 21.8#

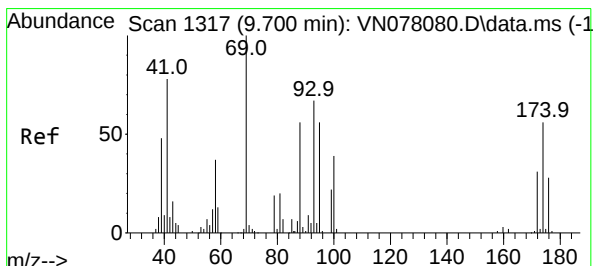
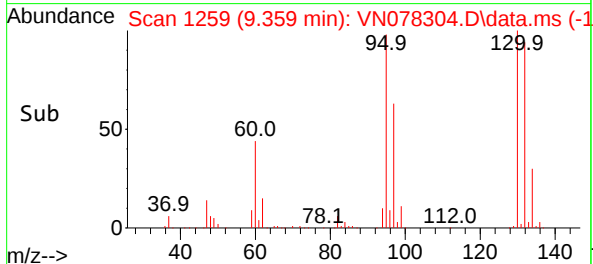
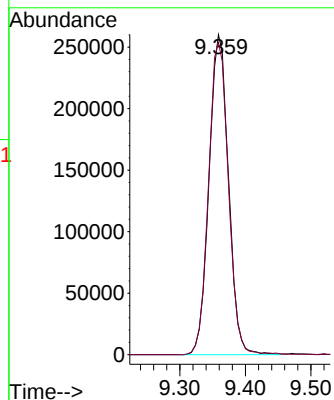
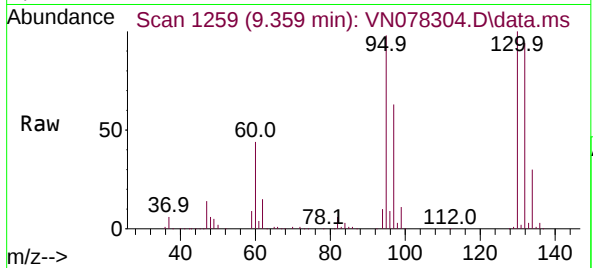




#44
Trichloroethene
Concen: 64.582 ug/l
RT: 9.359 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

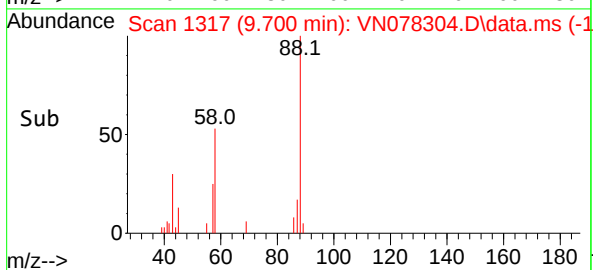
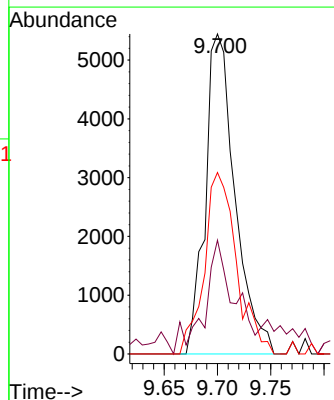
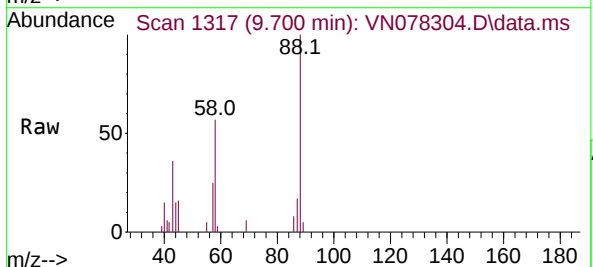
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923

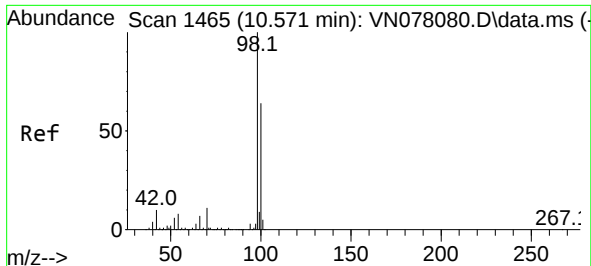
Tgt Ion:130 Resp: 536203
Ion Ratio Lower Upper
130 100
95 97.6 0.0 204.6



#49
1,4-Dioxane
Concen: 76.162 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

Tgt Ion: 88 Resp: 10569
Ion Ratio Lower Upper
88 100
43 35.7 17.0 25.6#
58 61.3 47.0 70.4

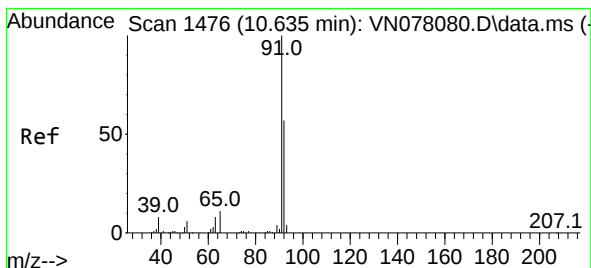
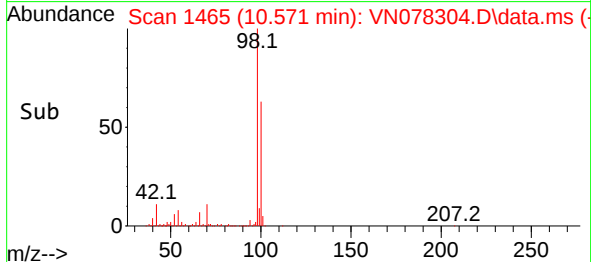
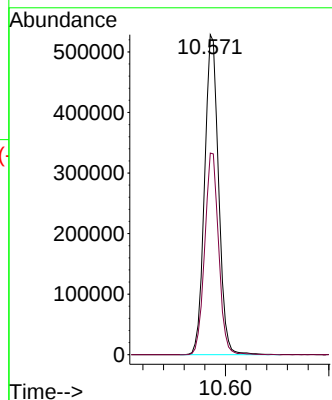
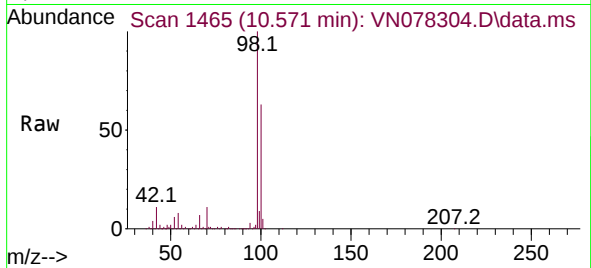




#50
Toluene-d8
Concen: 35.000 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

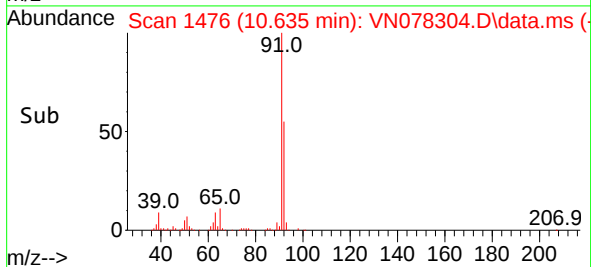
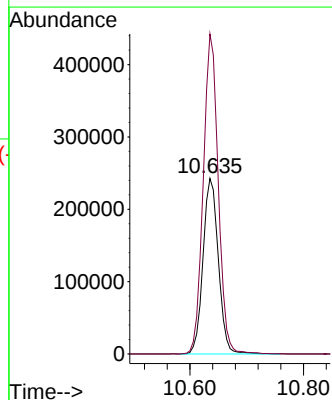
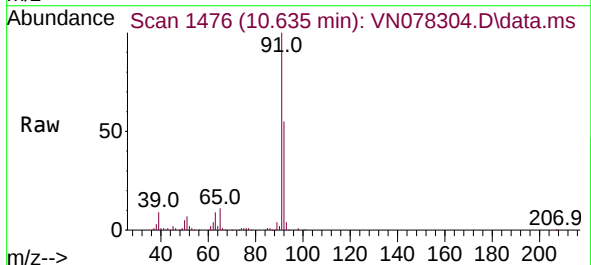
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923

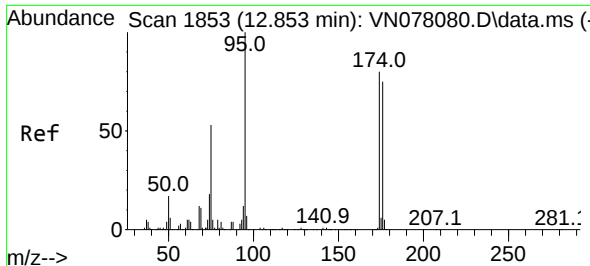
Tgt Ion: 98 Resp: 990621
Ion Ratio Lower Upper
98 100
100 62.7 52.0 78.0



#52
Toluene
Concen: 22.855 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

Tgt Ion: 92 Resp: 453674
Ion Ratio Lower Upper
92 100
91 178.8 137.4 206.0

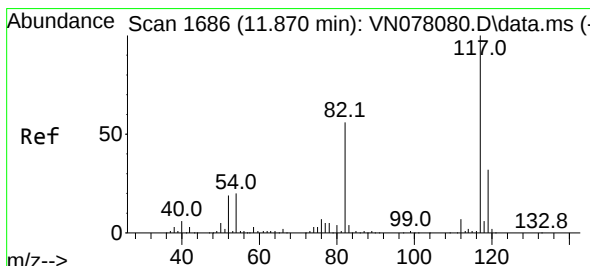
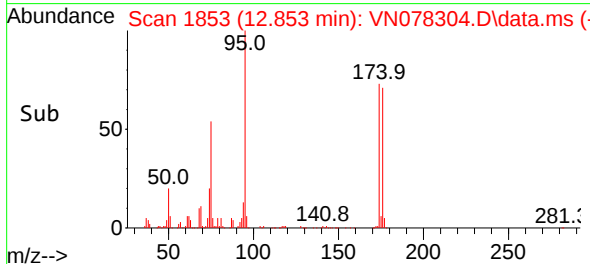
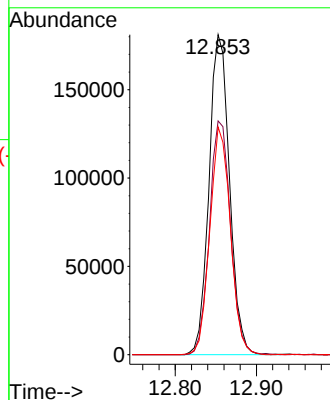
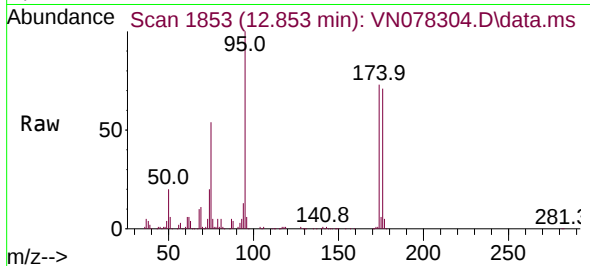




#62
4-Bromofluorobenzene
Concen: 36.079 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

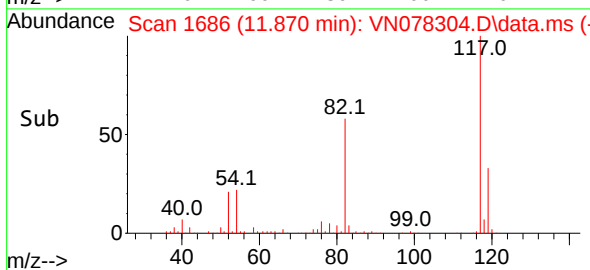
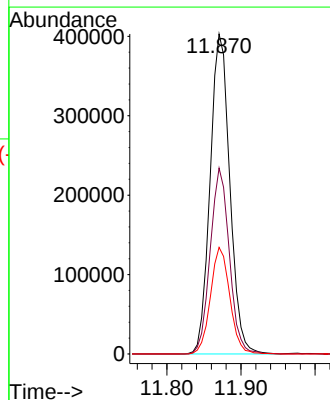
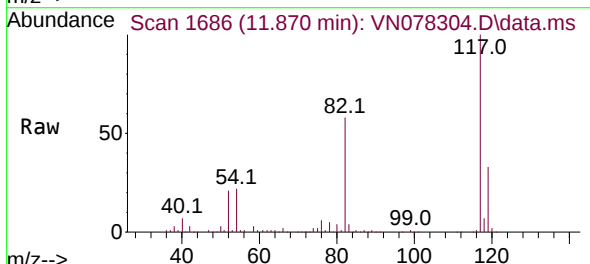
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923

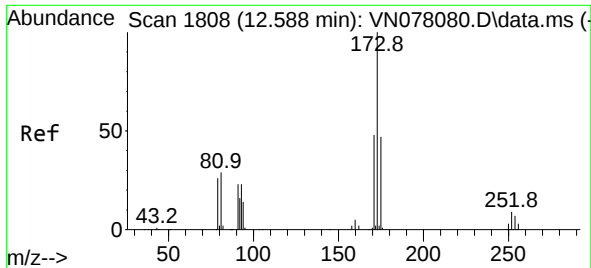
Tgt Ion: 95 Resp: 317451
Ion Ratio Lower Upper
95 100
174 75.2 0.0 143.8
176 71.3 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

Tgt Ion: 117 Resp: 744157
Ion Ratio Lower Upper
117 100
82 58.1 44.0 66.0
119 33.3 25.6 38.4

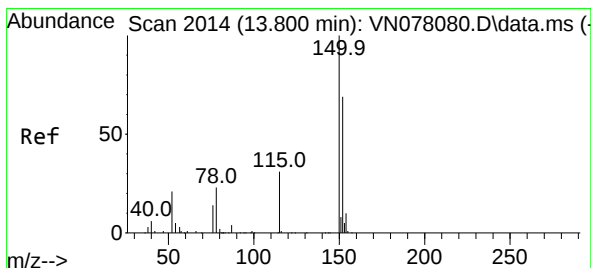
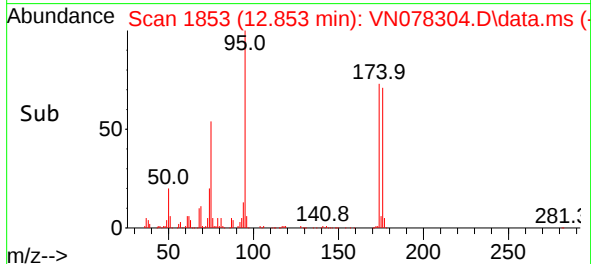
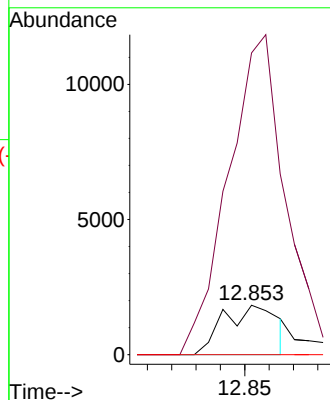
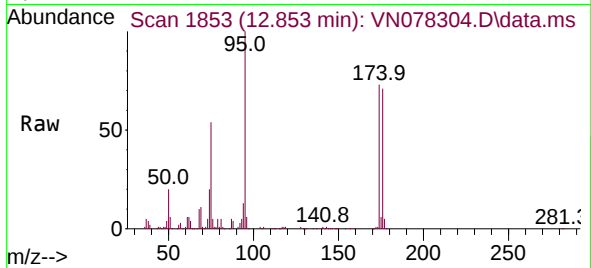




#71
Bromoform
Concen: 0.744 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.265 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

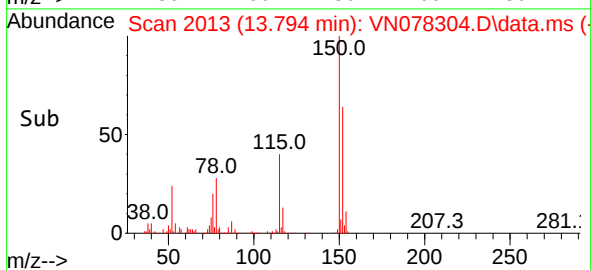
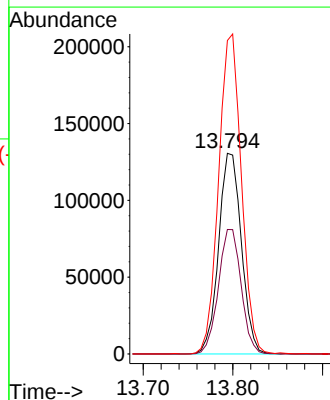
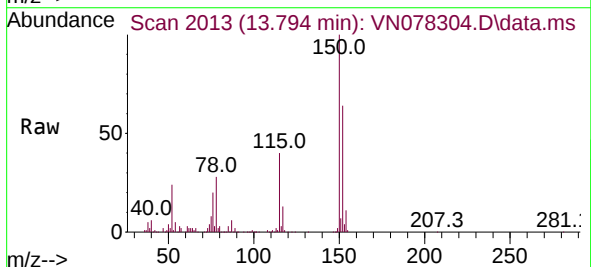
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923

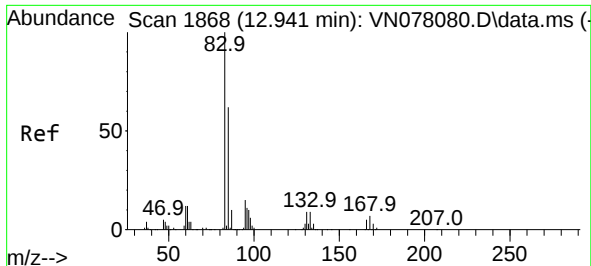
Tgt Ion:173 Resp: 2815
Ion Ratio Lower Upper
173 100
175 591.3 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

Tgt Ion:152 Resp: 230114
Ion Ratio Lower Upper
152 100
115 61.8 32.3 96.8
150 159.5 0.0 355.8

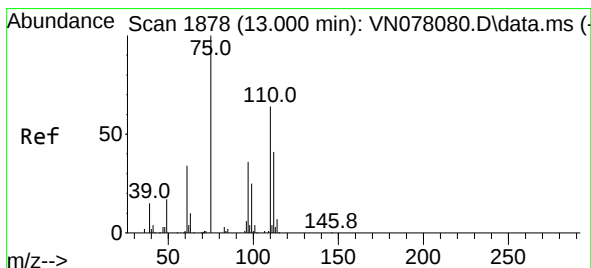
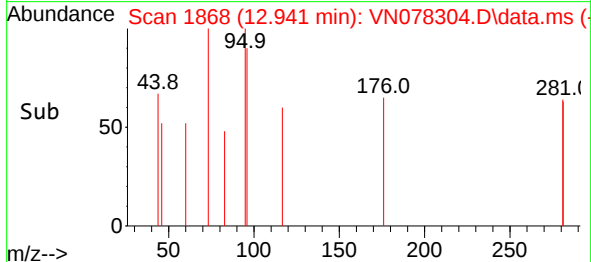
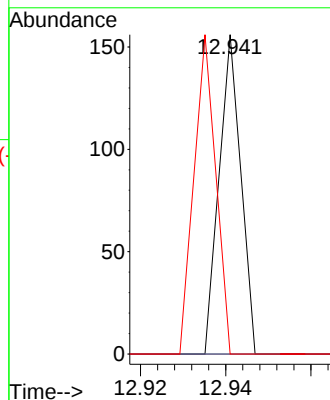
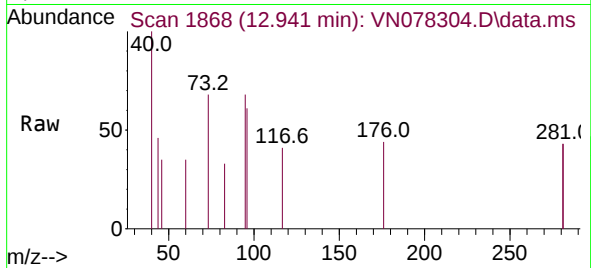




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.941 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

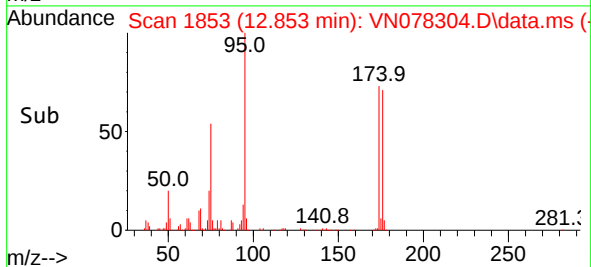
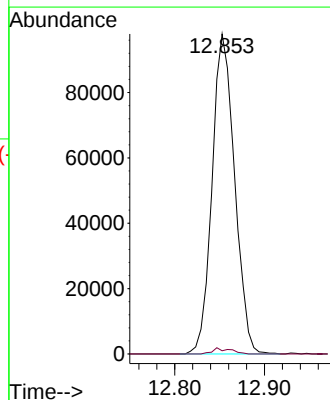
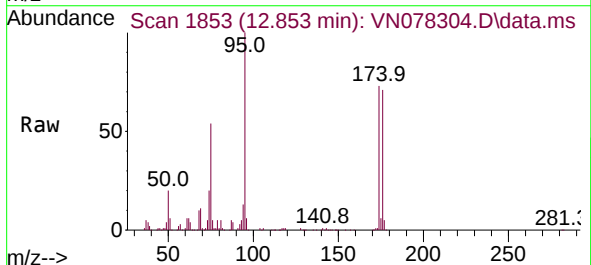
Instrument : MSVOA_N
ClientSampleId : GWOW-BR-05-248-268-061923

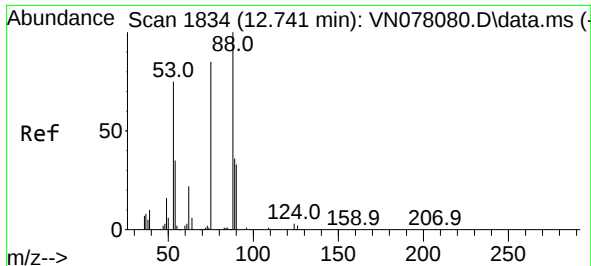
Tgt Ion: 83 Resp: 55
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 100.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 31.361 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

Tgt Ion: 75 Resp: 170605
Ion Ratio Lower Upper
75 100
77 1.5 84.5 253.5#

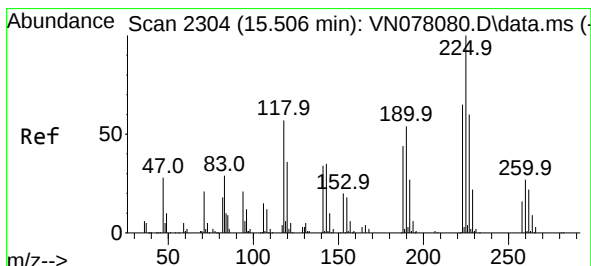
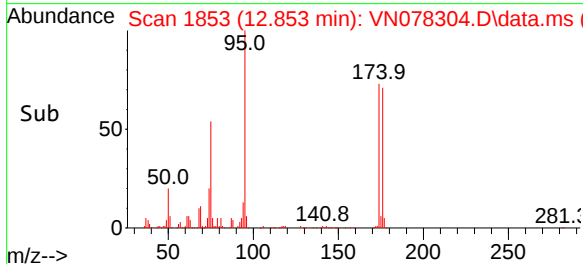
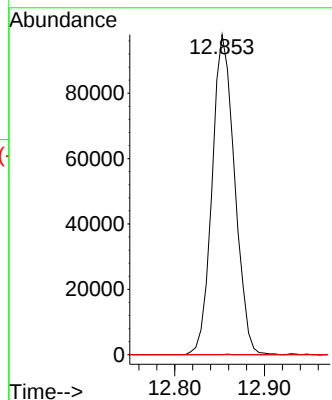
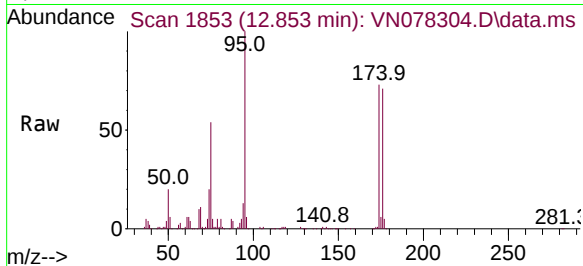




#81
trans-1,4-Dichloro-2-butene
Concen: 96.352 ug/l
RT: 12.853 min Scan# 1834
Delta R.T. 0.112 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923

Tgt Ion: 75 Resp: 170605
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.506 min Scan# 2304
Delta R.T. -0.000 min
Lab File: VN078304.D
Acq: 20 Jun 2023 13:00

Tgt Ion: 225 Resp: 201
Ion Ratio Lower Upper
225 100
223 0.0 31.3 93.8#
227 0.0 31.9 95.9#

