

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071823\
 Data File : VN078561.D
 Acq On : 18 Jul 2023 15:14
 Operator : JC\MD
 Sample : 03646-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GATE-1

Quant Time: Jul 19 01:51:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

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

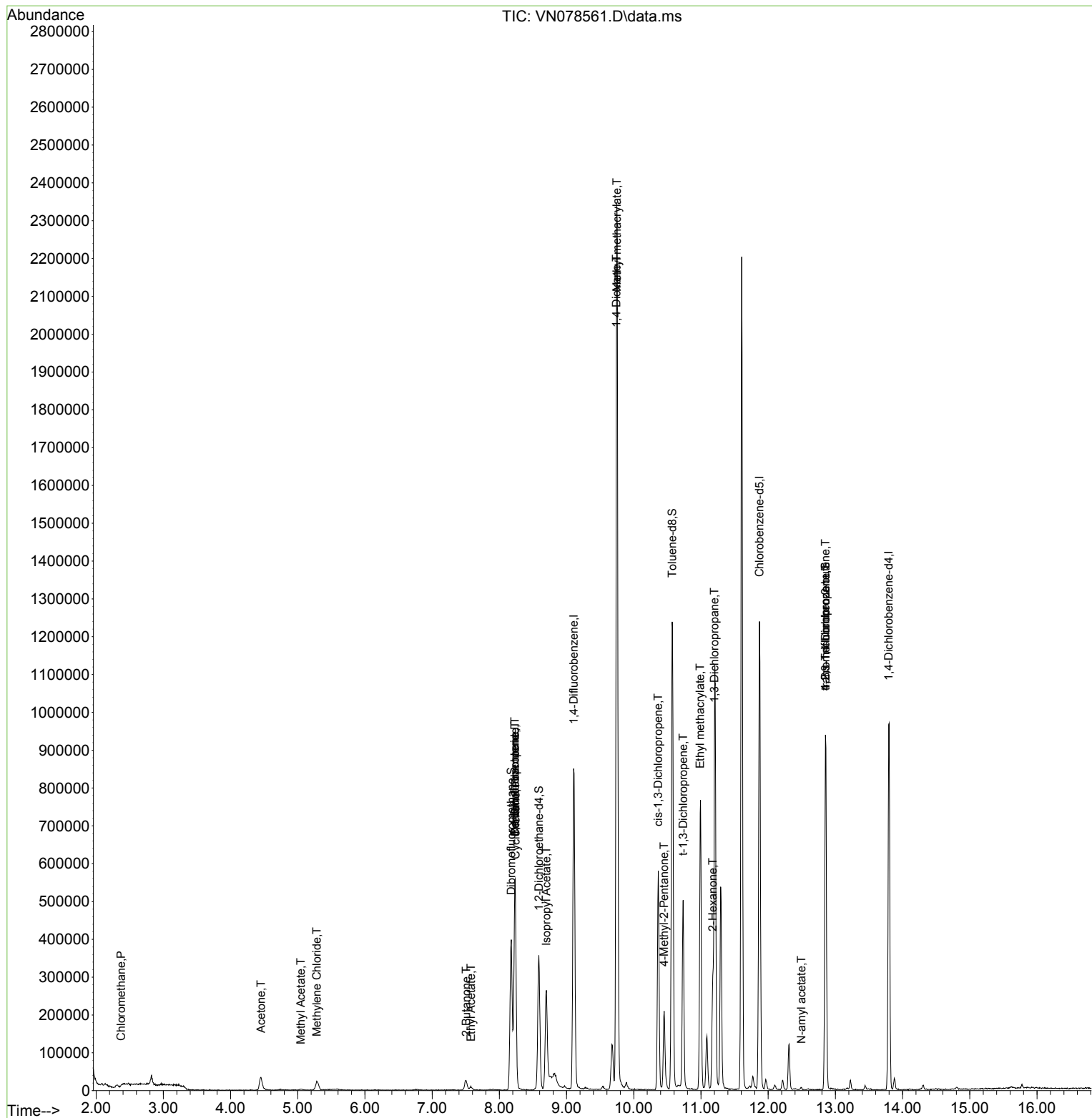
Internal Standards						
1) Pentafluorobenzene	8.230	168	408126	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	766574	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	743424	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	276569	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	284899	52.071	ug/l	0.00
Spiked Amount 50.000	Range	74 - 125	Recovery	= 104.140%		
35) Dibromofluoromethane	8.177	113	281540	54.103	ug/l	0.00
Spiked Amount 50.000	Range	75 - 124	Recovery	= 108.200%		
50) Toluene-d8	10.571	98	912266	46.406	ug/l	0.00
Spiked Amount 50.000	Range	86 - 113	Recovery	= 92.820%		
62) 4-Bromofluorobenzene	12.853	95	328640	54.275	ug/l	0.00
Spiked Amount 50.000	Range	83 - 123	Recovery	= 108.540%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1969	0.362	ug/l	98
5) Bromomethane	2.977	94	2311	Below Cal		86
6) Chloroethane	3.089	64	4670	Below Cal	#	88
16) Acetone	4.453	43	64490	37.839	ug/l	94
18) Methyl Acetate	5.048	43	5562	0.771	ug/l #	59
20) Methylene Chloride	5.283	84	18910	2.712	ug/l	96
25) 2-Butanone	7.506	43	40785	15.202	ug/l #	85
31) Cyclohexane	8.241	56	9095	1.230	ug/l #	39
36) 1,1-Dichloropropene	8.230	75	32858	4.373	ug/l #	51
37) Ethyl Acetate	7.577	43	12427	1.984	ug/l	97
38) Carbon Tetrachloride	8.230	117	44913	5.500	ug/l #	16
43) Isopropyl Acetate	8.700	43	301059	29.194	ug/l #	80
48) Methyl methacrylate	9.747	41	214748	44.949	ug/l #	30
49) 1,4-Dioxane	9.741	88	170	1.632	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	141239	23.026	ug/l	86
53) t-1,3-Dichloropropene	10.735	75	1861	0.228	ug/l #	3
54) cis-1,3-Dichloropropene	10.365	75	103495	11.915	ug/l #	67
56) Ethyl methacrylate	10.988	69	4225	0.556	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	12866	1.392	ug/l #	42
59) 2-Hexanone	11.177	43	227821	52.260	ug/l #	19
74) N-amyl acetate	12.494	43	2294	0.256	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.935	83	560	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	172657	25.827	ug/l #	1
77) Bromobenzene	12.865	156	76	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	172657	67.870	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.676	75	61	Below Cal	#	4

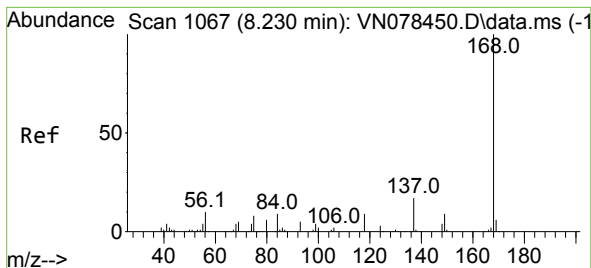
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN078561.D

Acq: 18 Jul 2023 15:14

Instrument :

MSVOA_N

ClientSampleId :

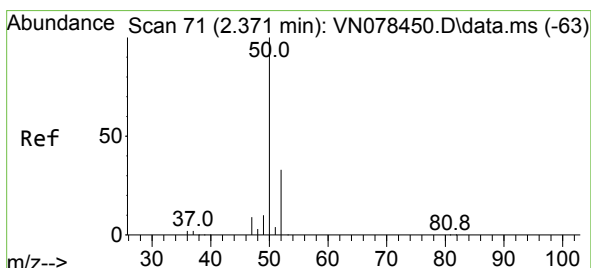
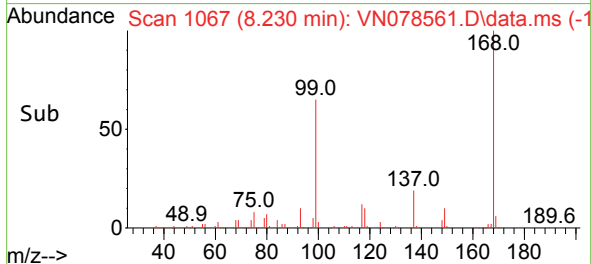
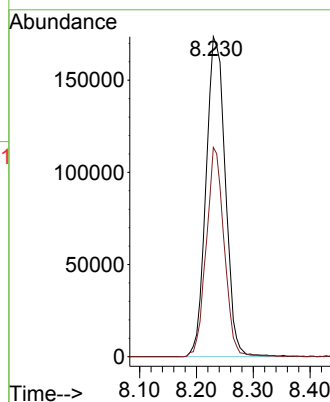
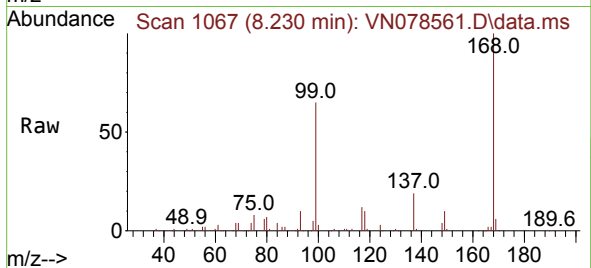
GATE-1

Tgt Ion:168 Resp: 408126

Ion Ratio Lower Upper

168 100

99 65.4 53.0 79.6



#3

Chloromethane

Concen: 0.362 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078561.D

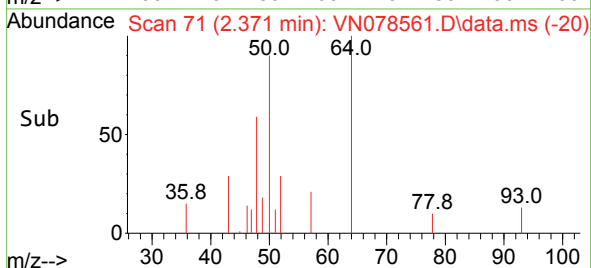
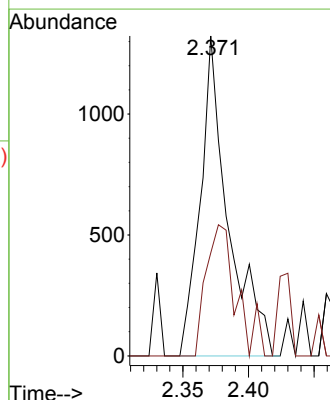
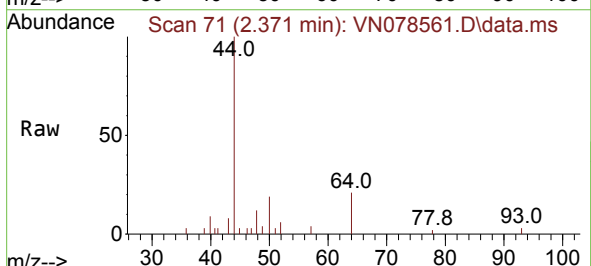
Acq: 18 Jul 2023 15:14

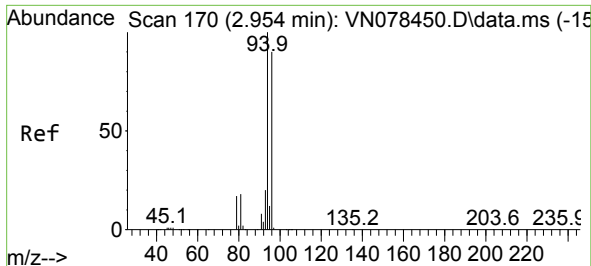
Tgt Ion: 50 Resp: 1969

Ion Ratio Lower Upper

50 100

52 32.2 26.5 39.7

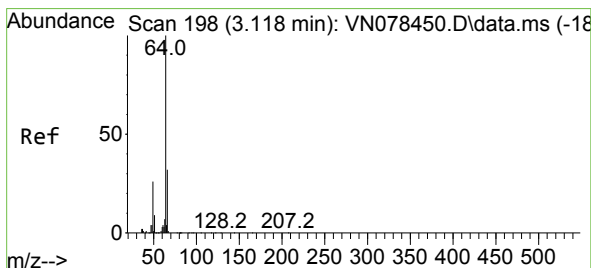
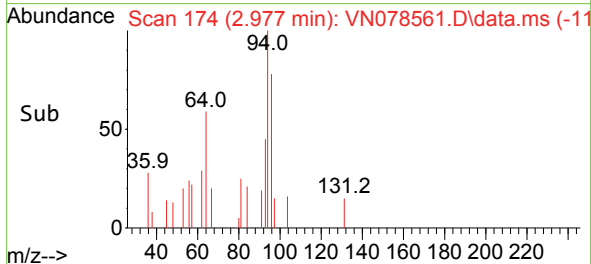
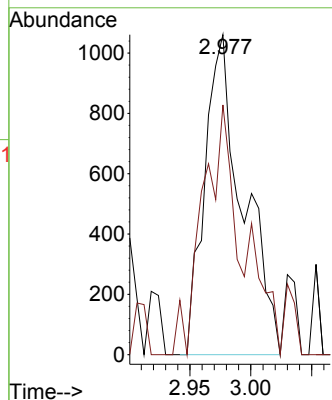
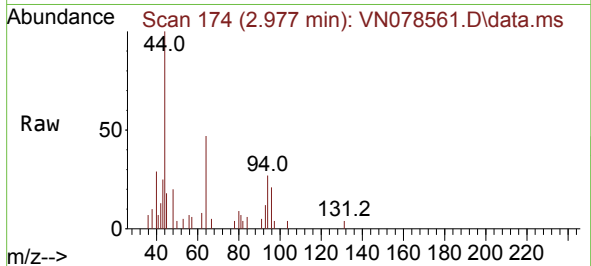




#5
Bromomethane
Concen: Below Cal
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

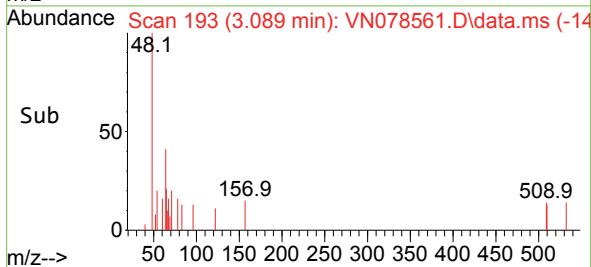
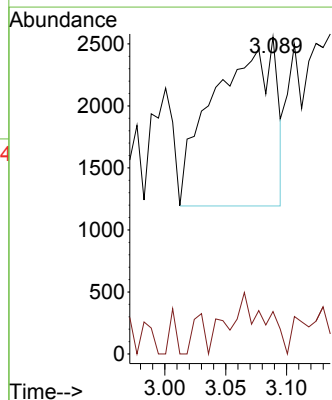
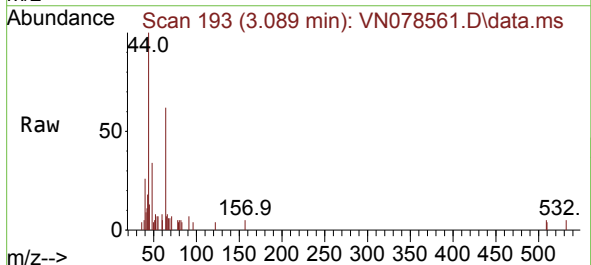
Instrument :
MSVOA_N
ClientSampleId :
GATE-1

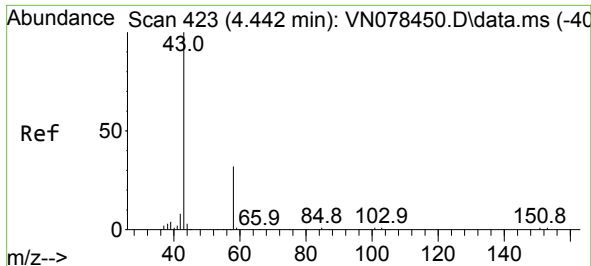
Tgt Ion: 94 Resp: 2311
Ion Ratio Lower Upper
94 100
96 78.0 73.1 109.7



#6
Chloroethane
Concen: Below Cal
RT: 3.089 min Scan# 193
Delta R.T. -0.029 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

Tgt Ion: 64 Resp: 4670
Ion Ratio Lower Upper
64 100
66 25.1 25.4 38.2#

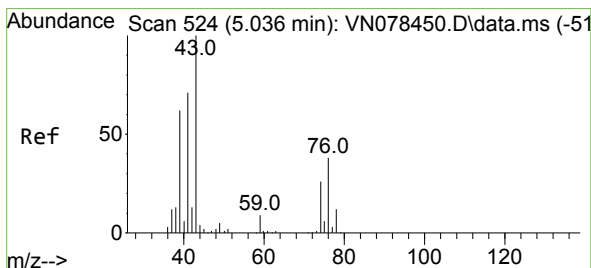
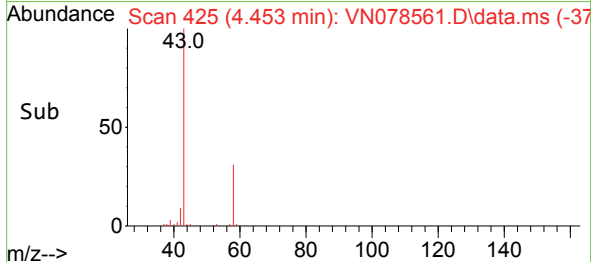
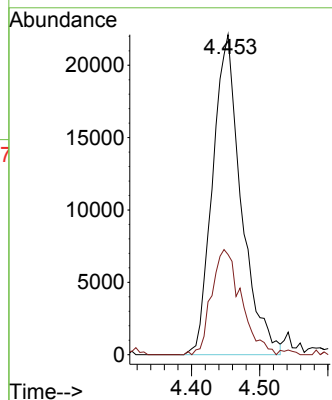
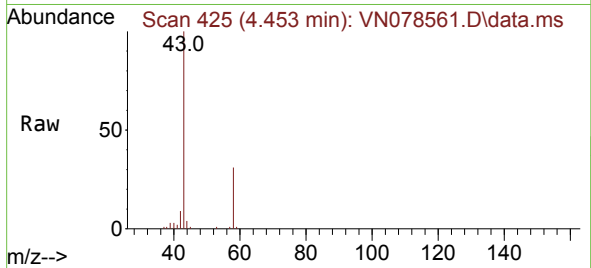




#16
Acetone
Concen: 37.839 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

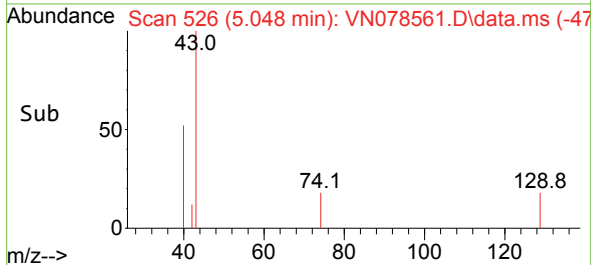
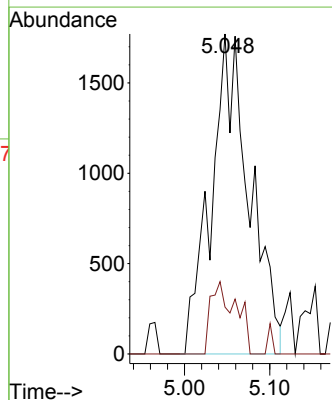
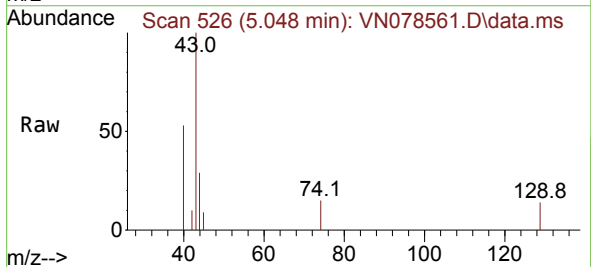
Instrument :
MSVOA_N
ClientSampleId :
GATE-1

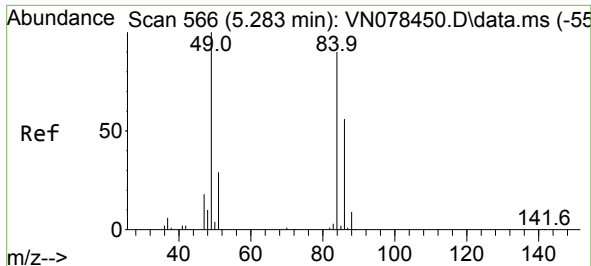
Tgt Ion: 43 Resp: 64490
Ion Ratio Lower Upper
43 100
58 31.3 28.0 42.0



#18
Methyl Acetate
Concen: 0.771 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.012 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

Tgt Ion: 43 Resp: 5562
Ion Ratio Lower Upper
43 100
74 9.7 26.2 39.4#

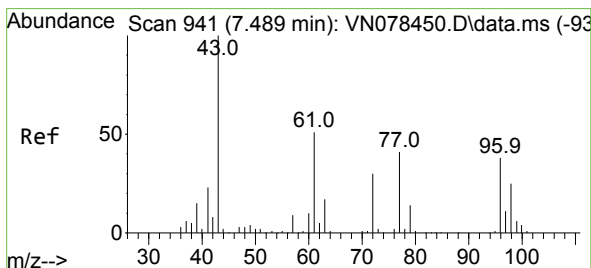
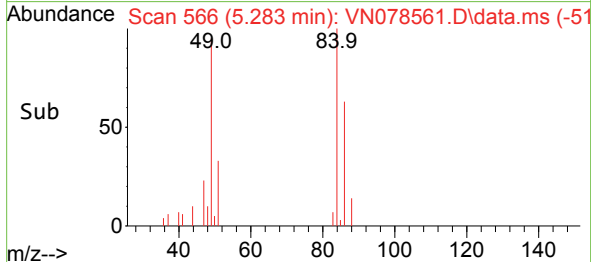
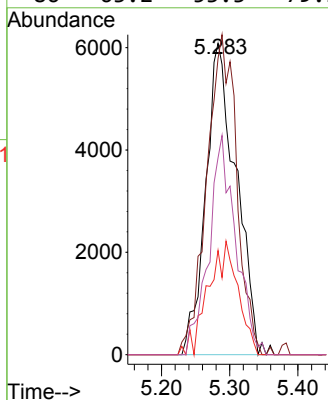
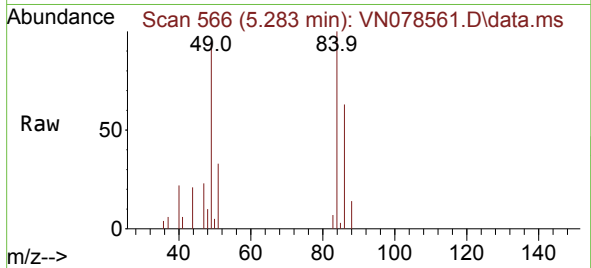




#20
Methylene Chloride
Concen: 2.712 ug/l
RT: 5.283 min Scan# 501
Delta R.T. -0.000 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

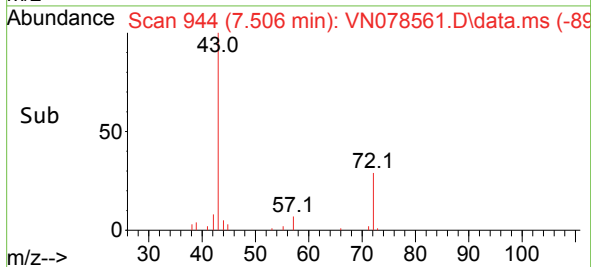
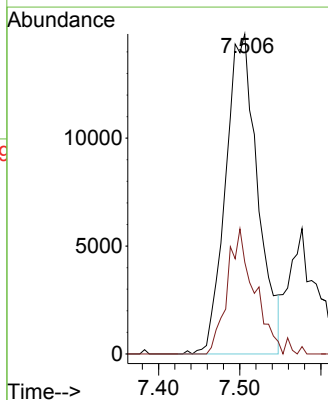
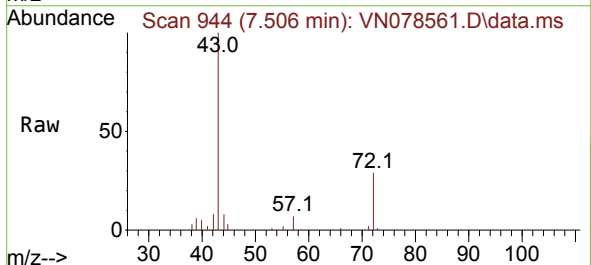
Instrument :
MSVOA_N
ClientSampleId :
GATE-1

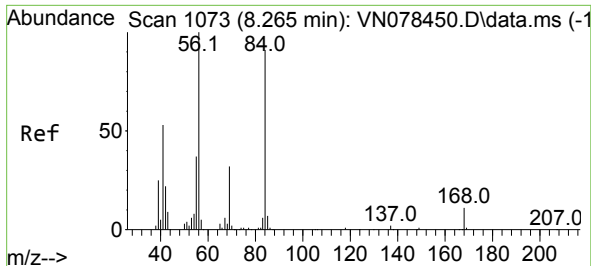
Tgt Ion:	84	Resp:	18910
Ion	Ratio	Lower	Upper
84	100		
49	95.1	79.7	119.5
51	33.4	25.2	37.8
86	63.2	53.3	79.9



#25
2-Butanone
Concen: 15.202 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.017 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

Tgt Ion:	43	Resp:	40785
Ion	Ratio	Lower	Upper
43	100		
72	28.7	30.2	45.2#

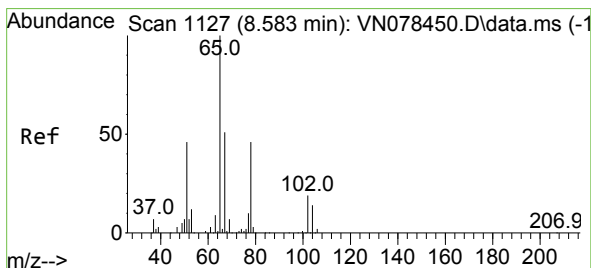
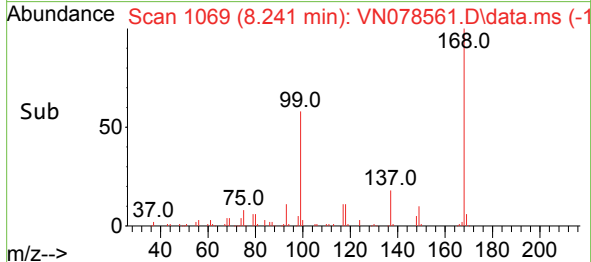
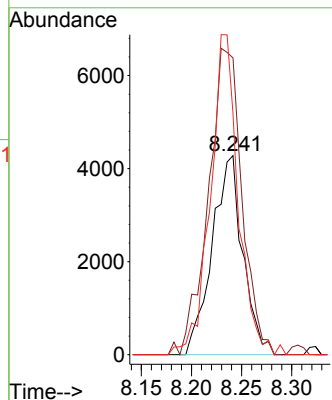
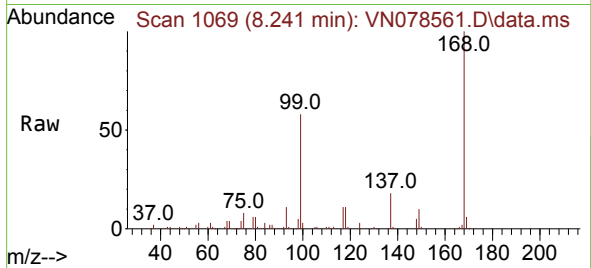




#31
Cyclohexane
Concen: 1.230 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. -0.024 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

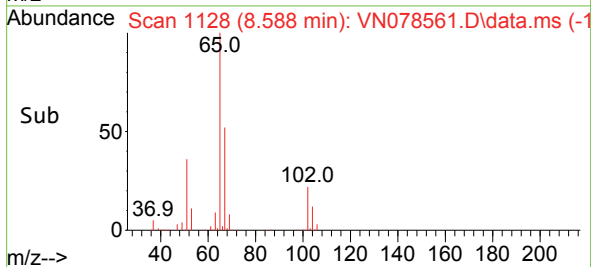
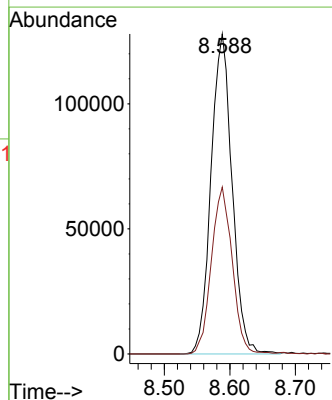
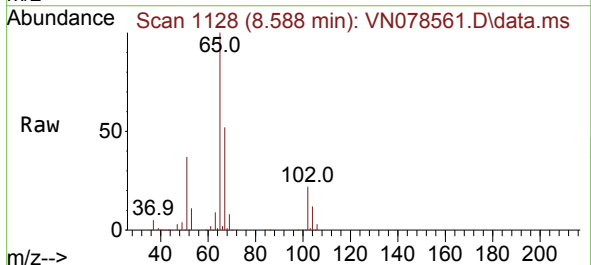
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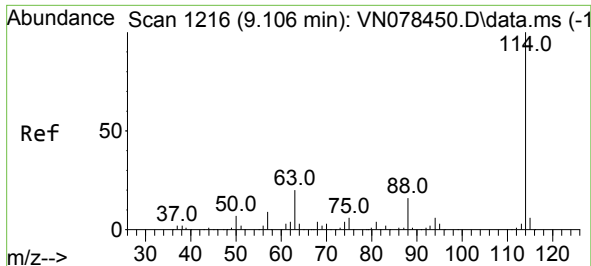
Tgt Ion: 56 Resp: 9095
Ion Ratio Lower Upper
56 100
69 149.1 26.8 40.2#
84 117.2 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 52.071 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

Tgt Ion: 65 Resp: 284899
Ion Ratio Lower Upper
65 100
67 51.7 0.0 106.6

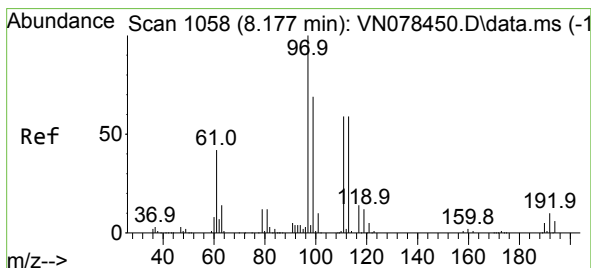
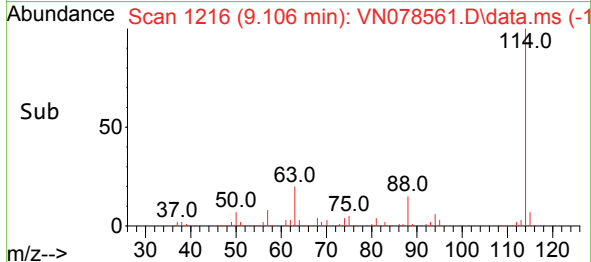
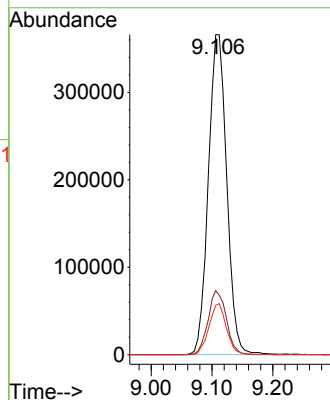
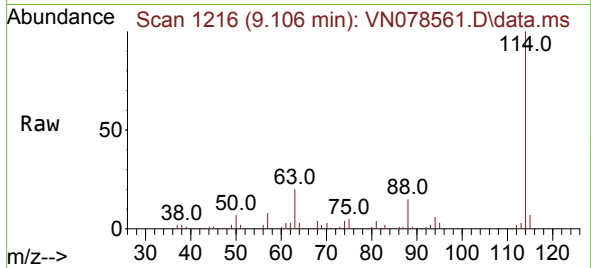




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

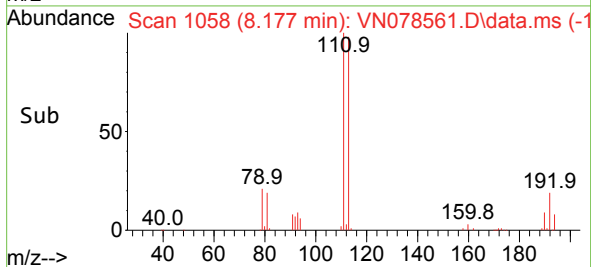
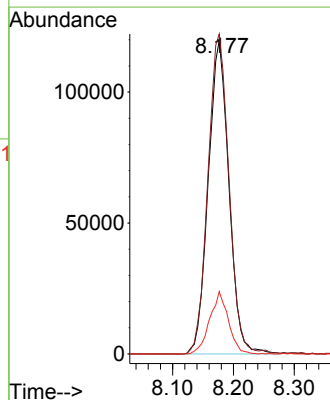
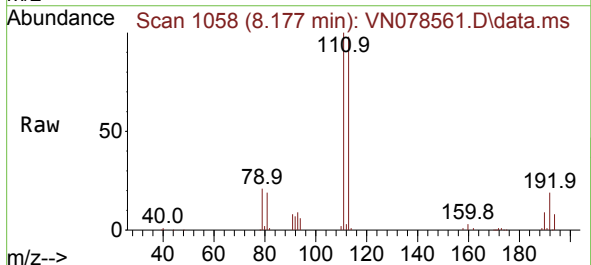
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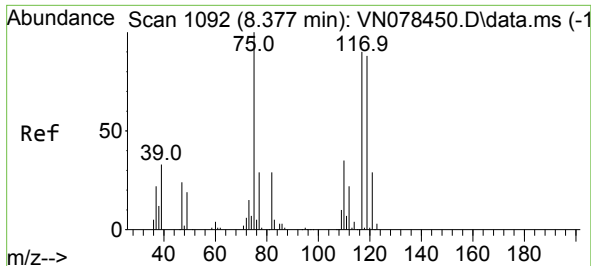
Tgt Ion:114 Resp: 766574
Ion Ratio Lower Upper
114 100
63 20.0 0.0 36.4
88 15.5 0.0 30.6



#35
Dibromofluoromethane
Concen: 54.103 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

Tgt Ion:113 Resp: 281540
Ion Ratio Lower Upper
113 100
111 103.5 82.6 123.8
192 18.0 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.373 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN078561.D

Acq: 18 Jul 2023 15:14

Instrument :

MSVOA_N

ClientSampleId :

GATE-1

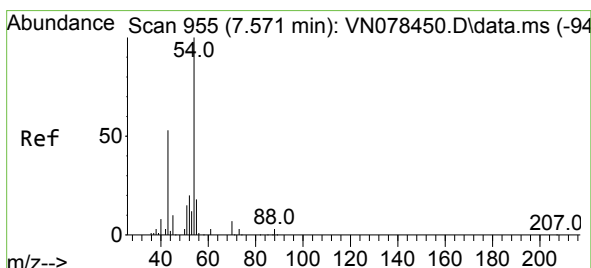
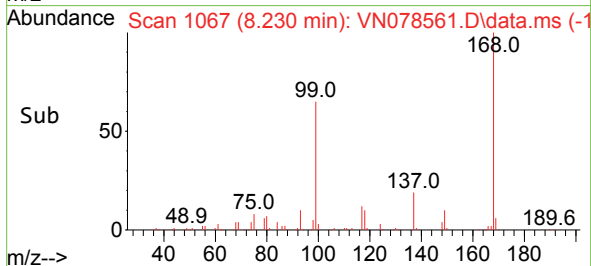
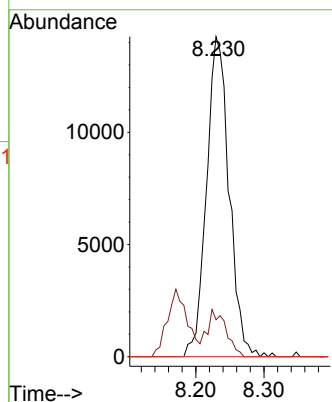
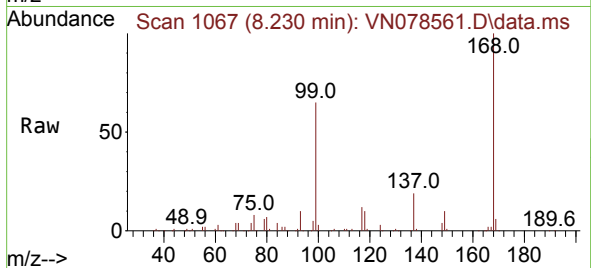
Tgt Ion: 75 Resp: 32858

Ion Ratio Lower Upper

75 100

110 12.2 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.984 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.006 min

Lab File: VN078561.D

Acq: 18 Jul 2023 15:14

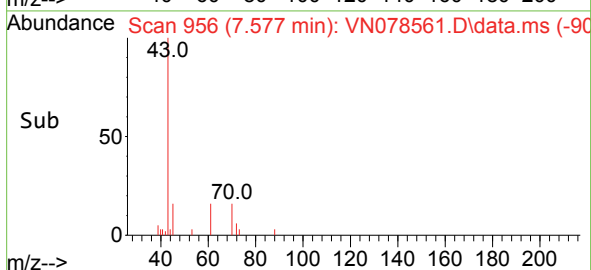
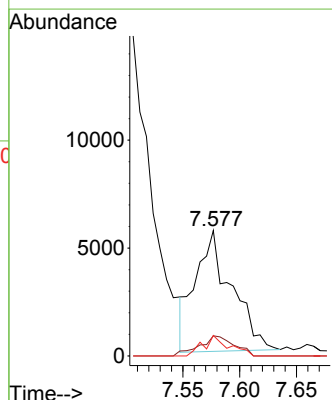
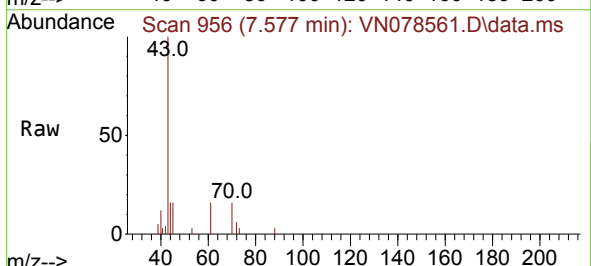
Tgt Ion: 43 Resp: 12427

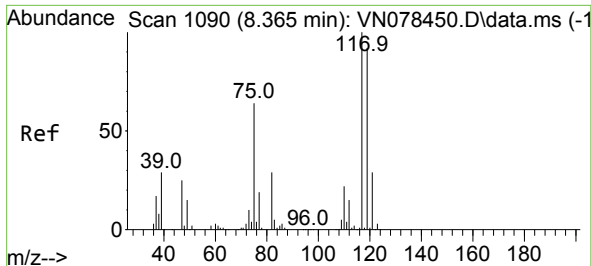
Ion Ratio Lower Upper

43 100

61 15.9 13.2 19.8

70 12.0 11.3 16.9

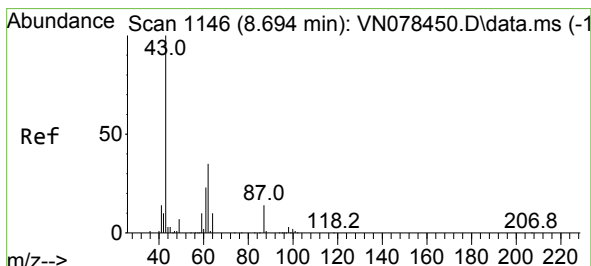
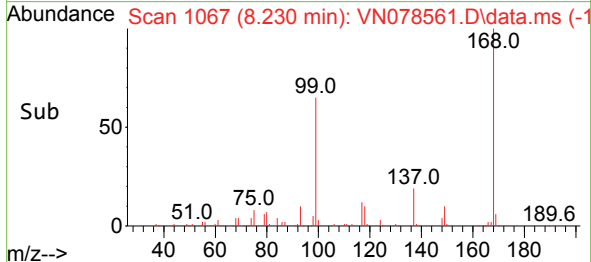
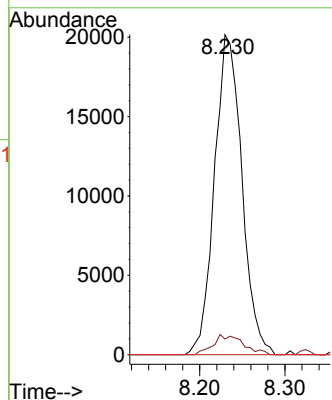
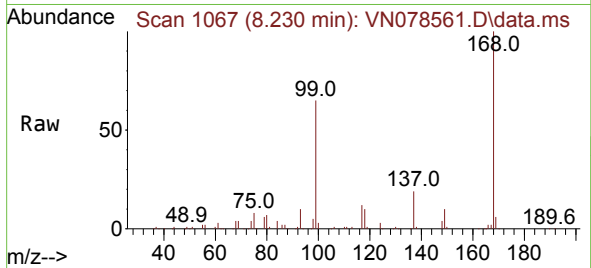




#38
Carbon Tetrachloride
Concen: 5.500 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

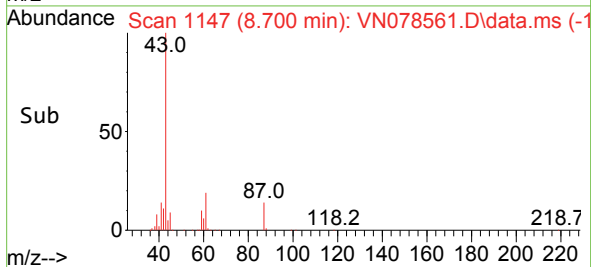
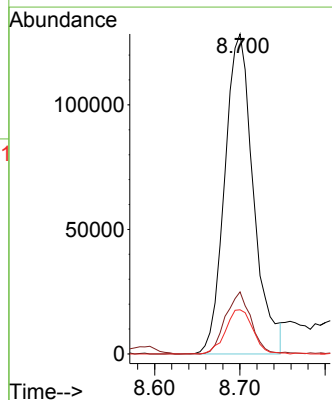
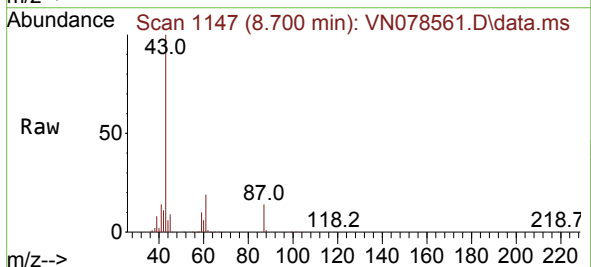
Instrument :
MSVOA_N
ClientSampleId :
GATE-1

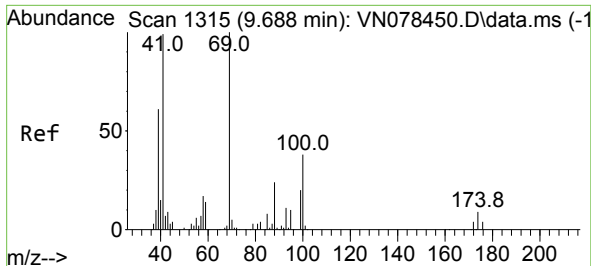
Tgt Ion:117 Resp: 44913
Ion Ratio Lower Upper
117 100
119 4.9 77.3 115.9#
121 0.0 23.3 34.9#



#43
Isopropyl Acetate
Concen: 29.194 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

Tgt Ion: 43 Resp: 301059
Ion Ratio Lower Upper
43 100
61 17.5 24.7 37.1#
87 13.2 14.6 21.8#





#48

Methyl methacrylate

Concen: 44.949 ug/l

RT: 9.747 min Scan# 1

Delta R.T. 0.059 min

Lab File: VN078561.D

Acq: 18 Jul 2023 15:14

Instrument :

MSVOA_N

ClientSampleId :

GATE-1

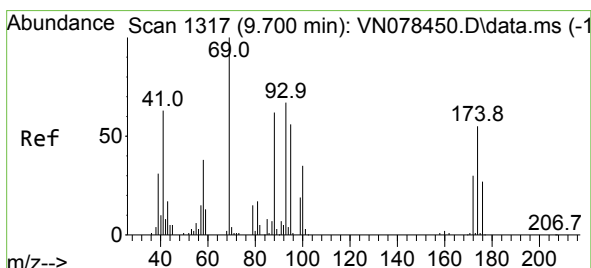
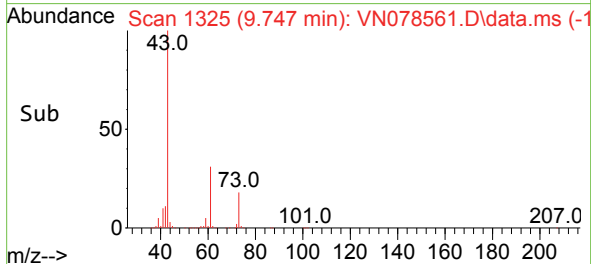
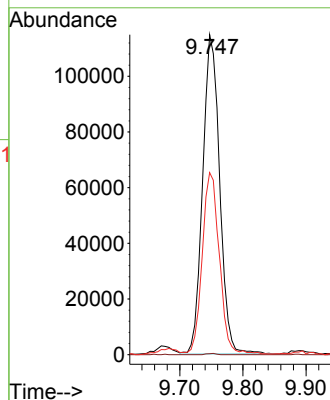
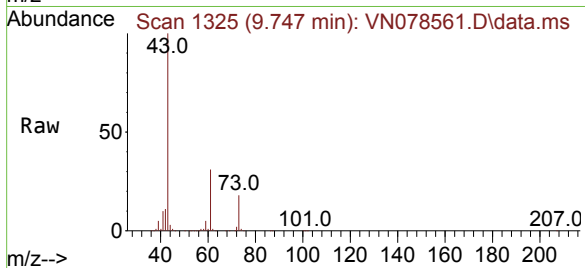
Tgt Ion: 41 Resp: 214748

Ion Ratio Lower Upper

41 100

69 0.2 90.4 135.6#

39 57.8 54.6 81.8



#49

1,4-Dioxane

Concen: 1.632 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.041 min

Lab File: VN078561.D

Acq: 18 Jul 2023 15:14

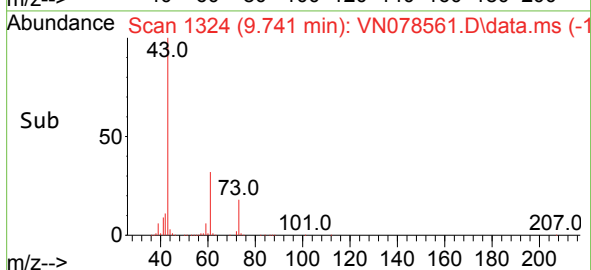
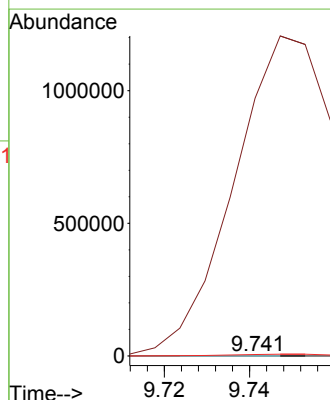
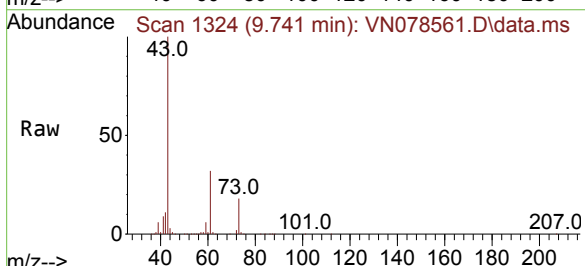
Tgt Ion: 88 Resp: 170

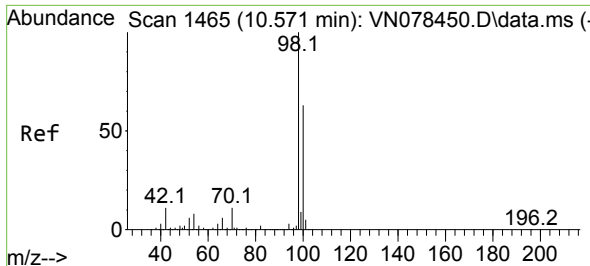
Ion Ratio Lower Upper

88 100

43 1304313.5 17.0 25.6#

58 7325.9 47.0 70.4#

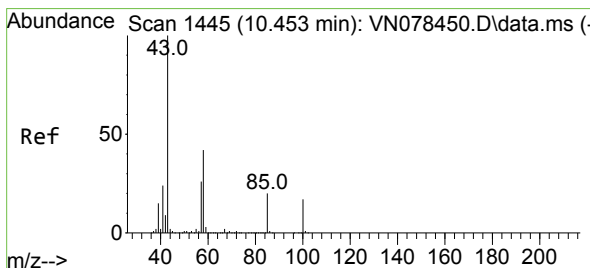
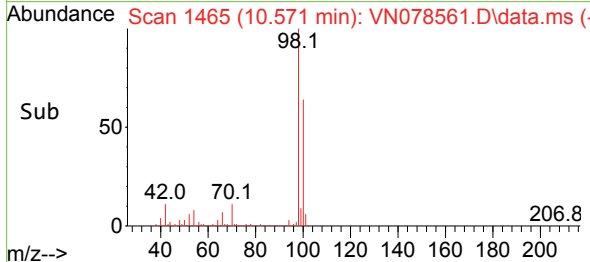
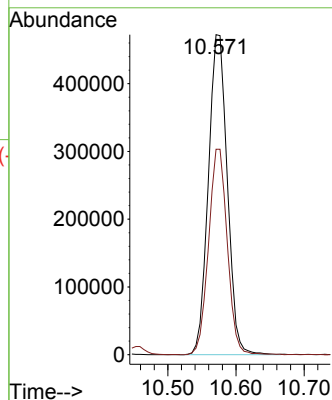
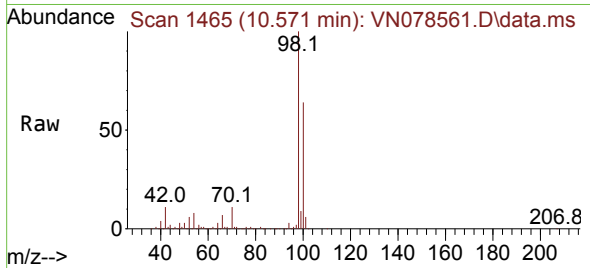




#50
Toluene-d8
Concen: 46.406 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

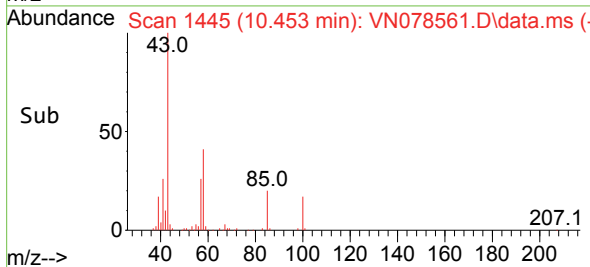
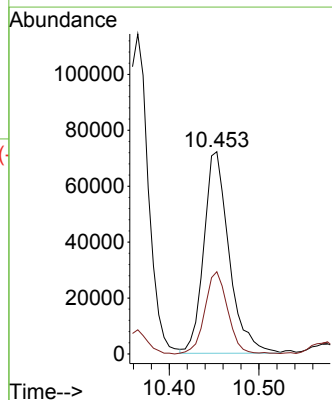
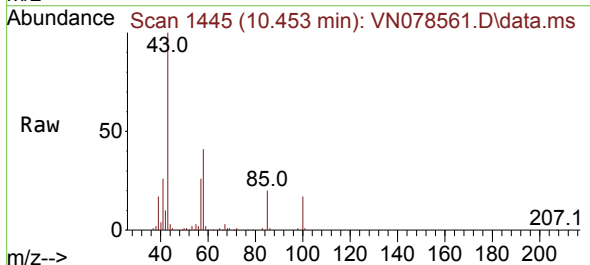
Instrument :
MSVOA_N
ClientSampleId :
GATE-1

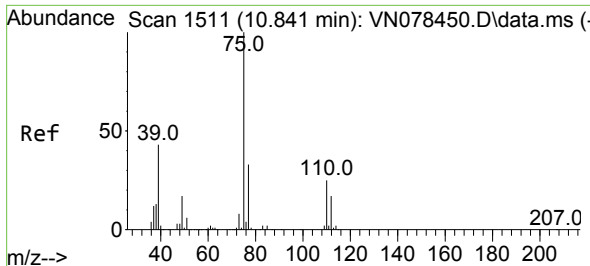
Tgt Ion: 98 Resp: 912266
Ion Ratio Lower Upper
98 100
100 63.5 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 23.026 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

Tgt Ion: 43 Resp: 141239
Ion Ratio Lower Upper
43 100
58 36.8 36.6 54.8

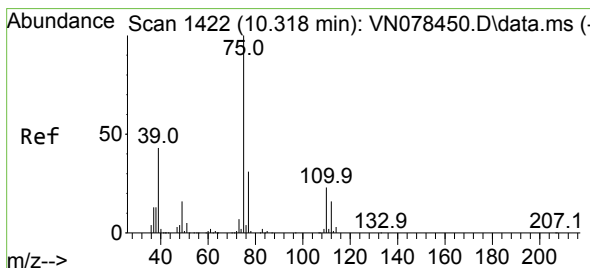
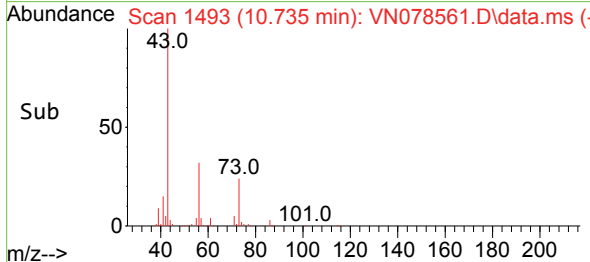
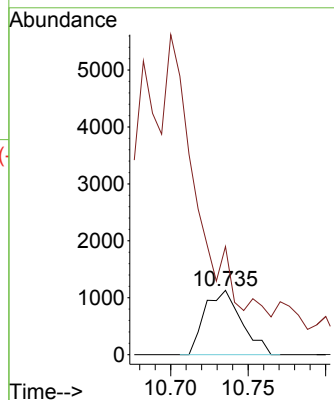
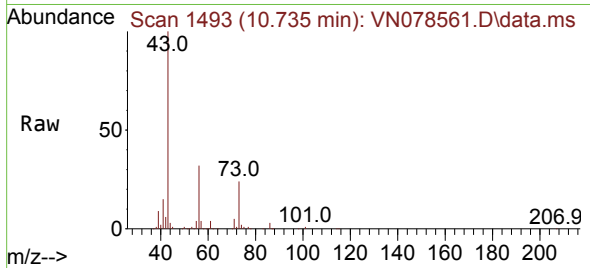




#53
t-1,3-Dichloropropene
Concen: 0.228 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.106 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

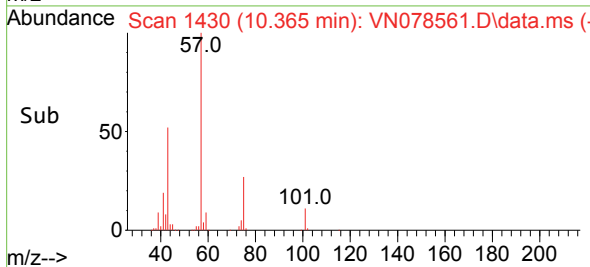
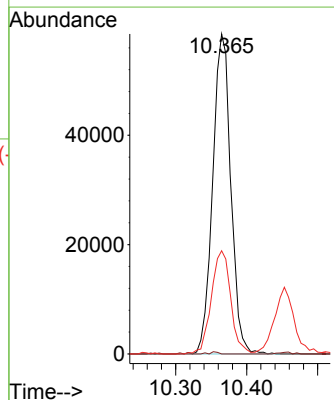
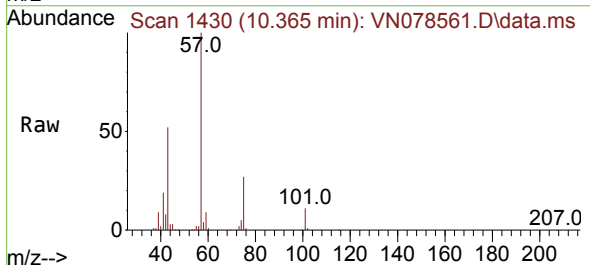
Instrument :
MSVOA_N
ClientSampleId :
GATE-1

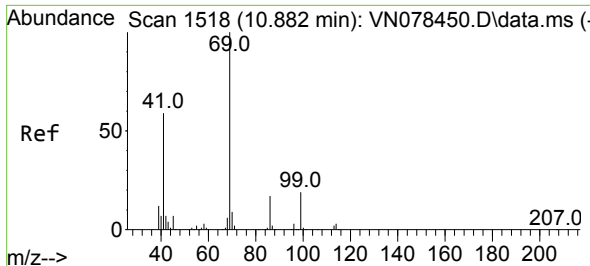
Tgt Ion: 75 Resp: 1861
Ion Ratio Lower Upper
75 100
77 85.8 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 11.915 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

Tgt Ion: 75 Resp: 103495
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 32.2 31.6 47.4

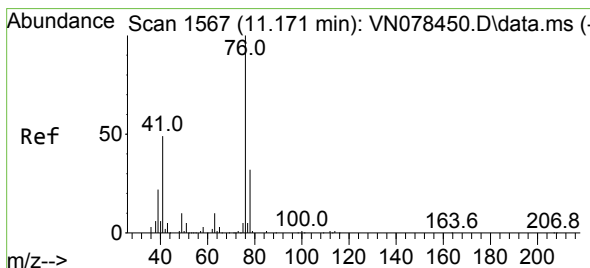
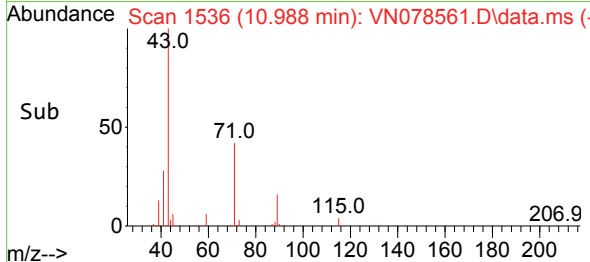
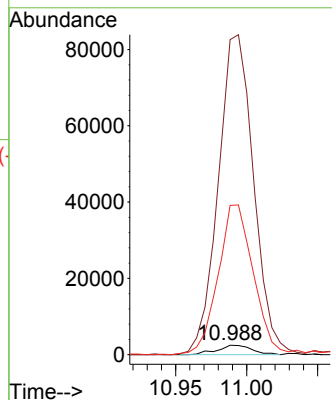
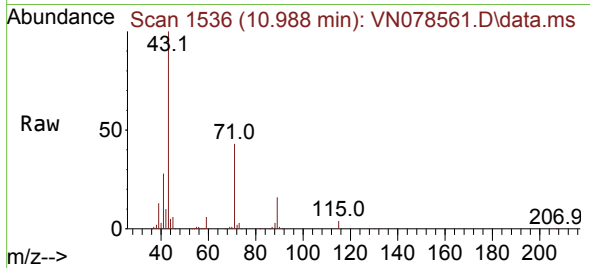




#56
Ethyl methacrylate
Concen: 0.556 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.106 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

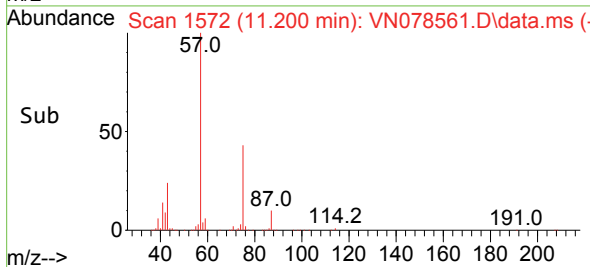
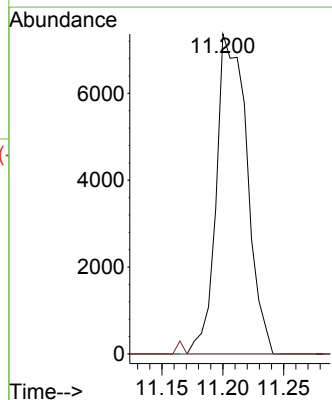
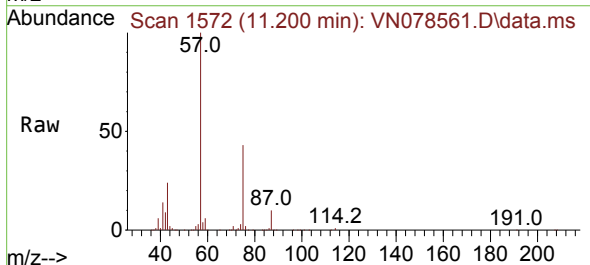
Instrument :
MSVOA_N
ClientSampleId :
GATE-1

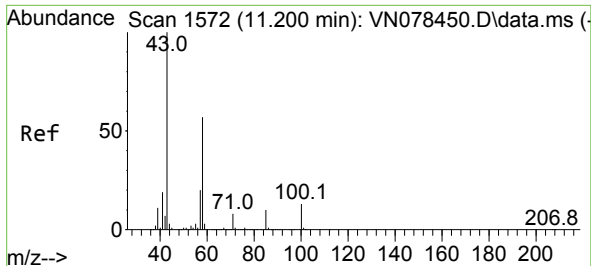
Tgt Ion: 69 Resp: 4225
Ion Ratio Lower Upper
69 100
41 3446.1 39.6 59.4#
39 1629.8 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.392 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.029 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

Tgt Ion: 76 Resp: 12866
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

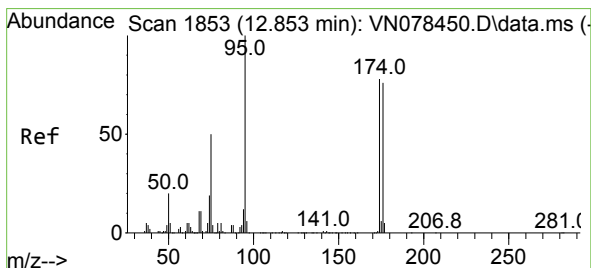
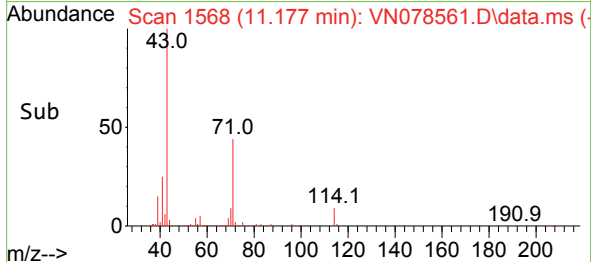
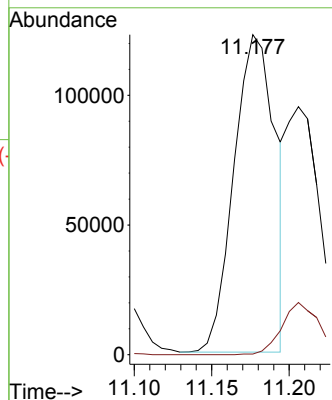
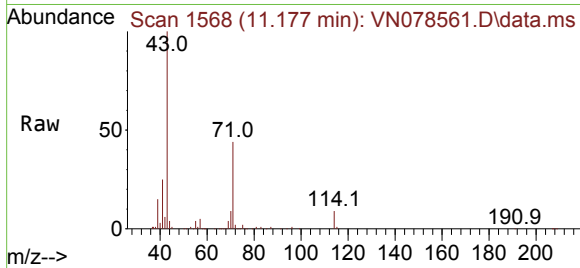




#59
2-Hexanone
Concen: 52.260 ug/l
RT: 11.177 min Scan# 1117
Delta R.T. -0.023 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

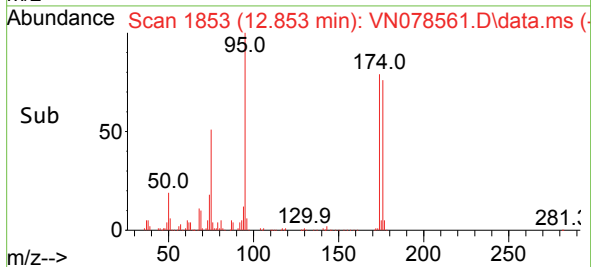
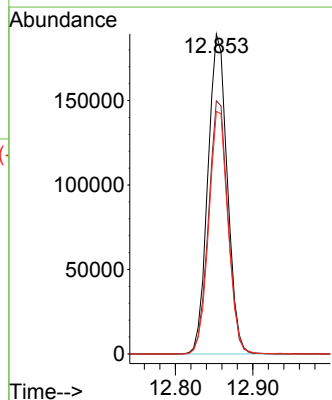
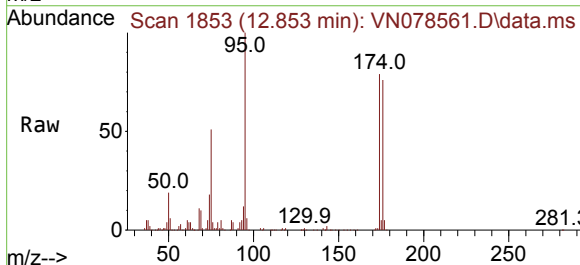
Instrument :
MSVOA_N
ClientSampleId :
GATE-1

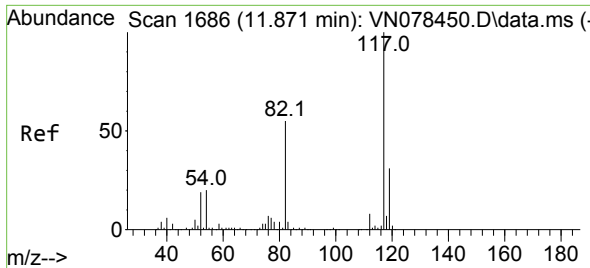
Tgt Ion: 43 Resp: 227821
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 54.275 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

Tgt Ion: 95 Resp: 328640
Ion Ratio Lower Upper
95 100
174 79.3 0.0 143.8
176 75.3 0.0 135.8

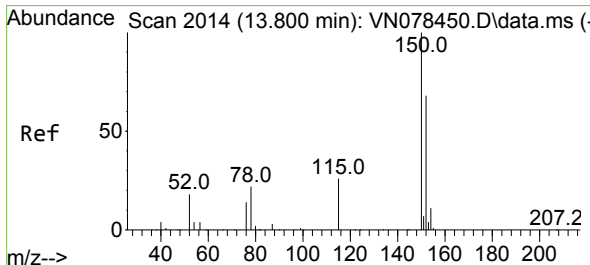
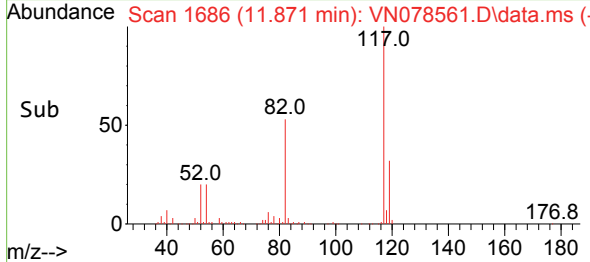
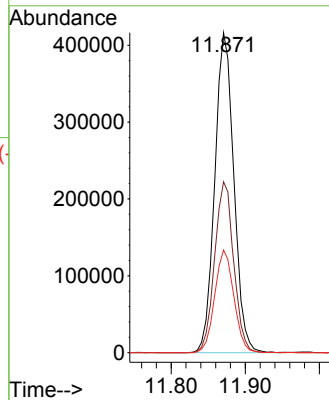
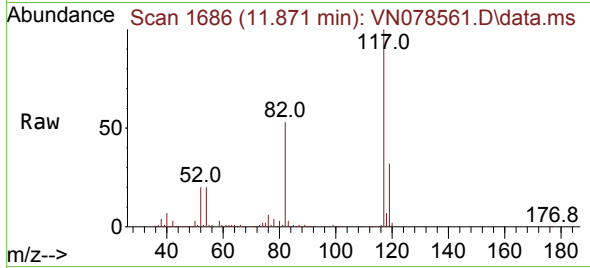




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

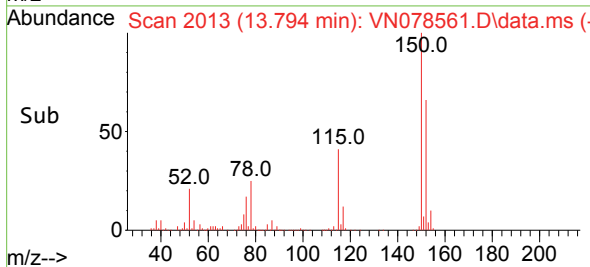
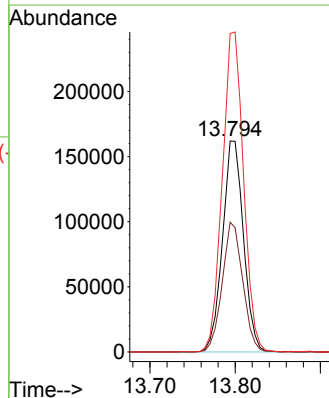
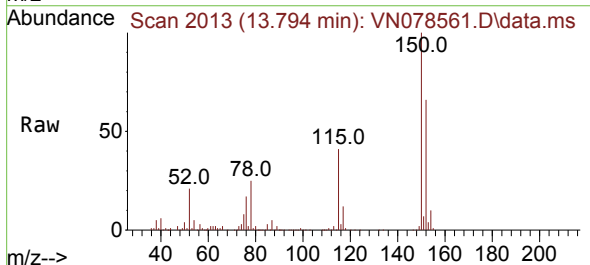
Instrument :
MSVOA_N
ClientSampleId :
GATE-1

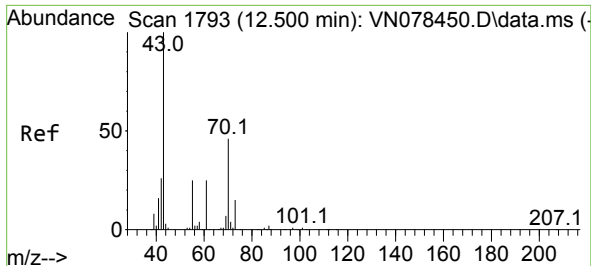
Tgt Ion:117 Resp: 743424
Ion Ratio Lower Upper
117 100
82 53.4 44.0 66.0
119 32.1 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

Tgt Ion:152 Resp: 276569
Ion Ratio Lower Upper
152 100
115 60.3 32.3 96.8
150 153.5 0.0 355.8

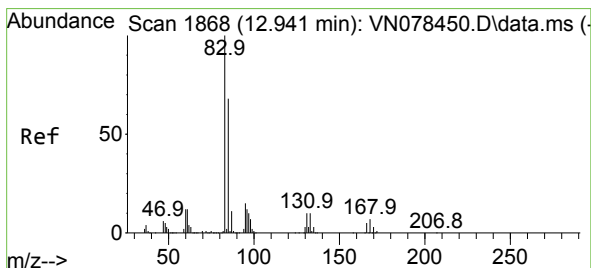
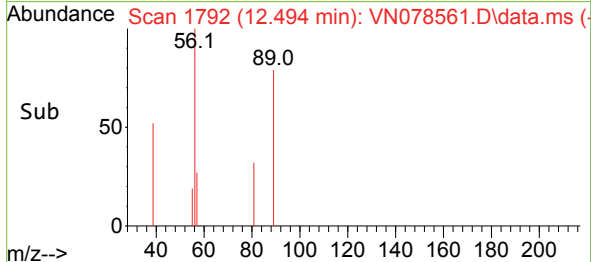
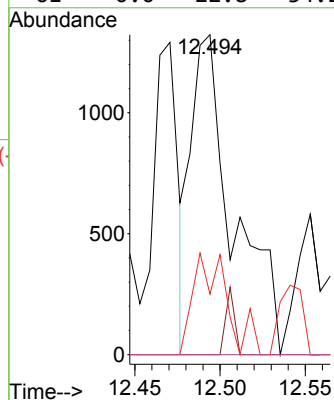
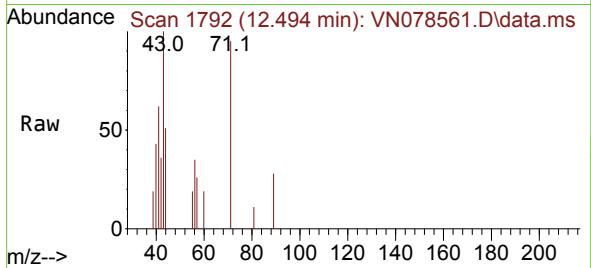




#74
N-amy1 acetate
Concen: 0.256 ug/l
RT: 12.494 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

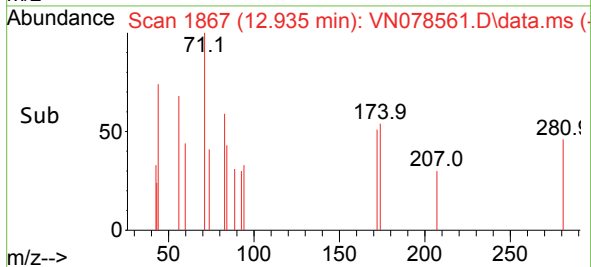
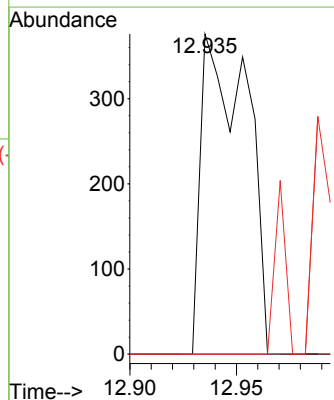
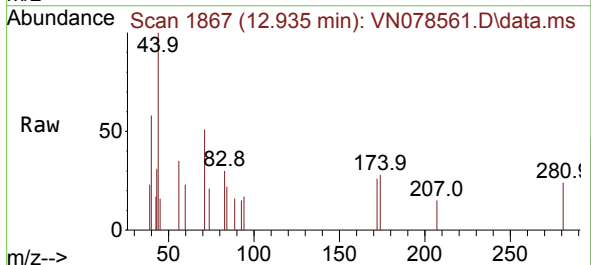
Instrument :
MSVOA_N
ClientSampleId :
GATE-1

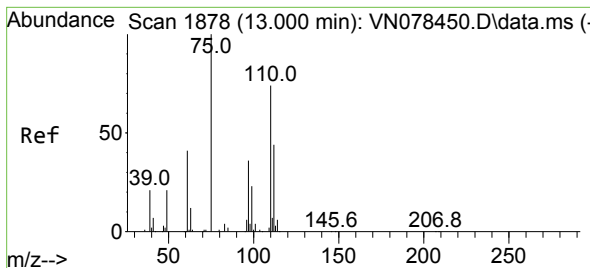
Tgt Ion: 43	Resp:	2294
Ion	Ratio	Lower Upper
43	100	
70	4.3	43.4 65.2#
55	22.1	21.4 32.0
61	0.0	22.8 34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN078561.D
Acq: 18 Jul 2023 15:14

Tgt Ion: 83	Resp:	560
Ion	Ratio	Lower Upper
83	100	
131	0.0	5.0 15.0#
85	0.0	31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 25.827 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078561.D

Acq: 18 Jul 2023 15:14

Instrument :

MSVOA_N

ClientSampleId :

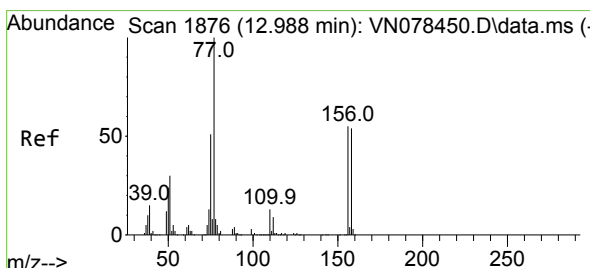
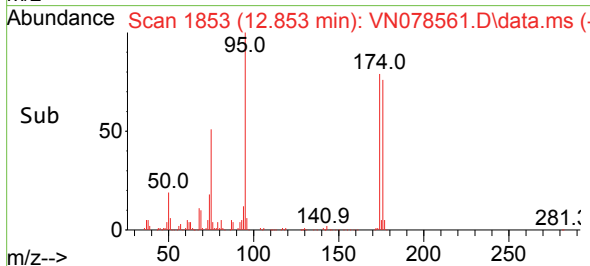
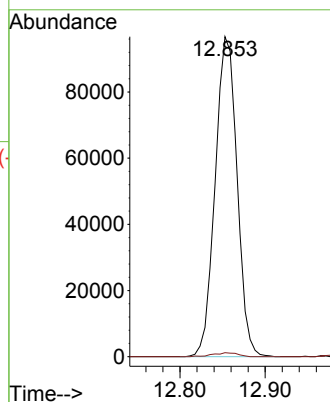
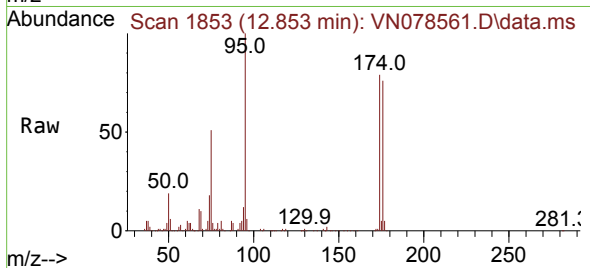
GATE-1

Tgt Ion: 75 Resp: 172657

Ion Ratio Lower Upper

75 100

77 1.4 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.865 min Scan# 1855

Delta R.T. -0.123 min

Lab File: VN078561.D

Acq: 18 Jul 2023 15:14

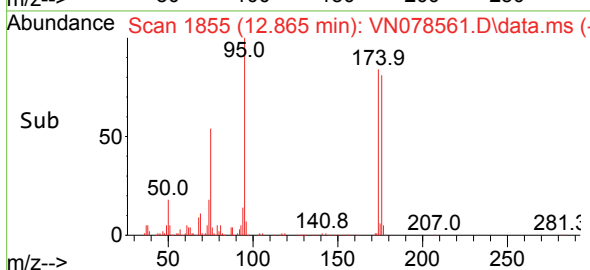
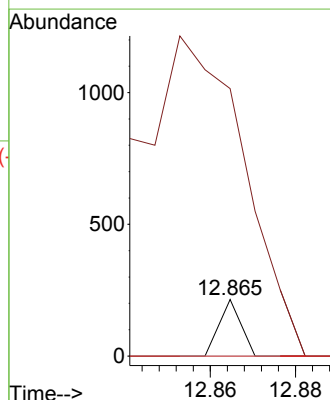
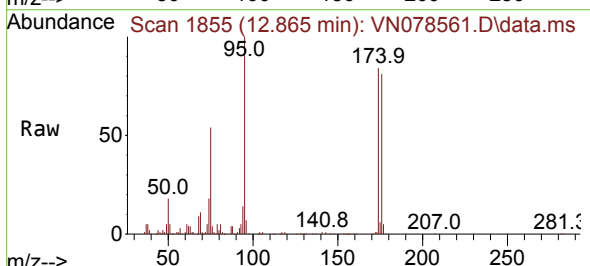
Tgt Ion:156 Resp: 76

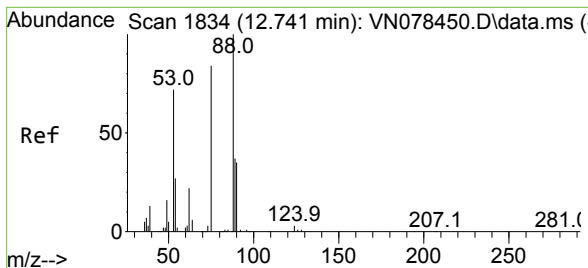
Ion Ratio Lower Upper

156 100

77 3211.8 107.7 323.3#

158 0.0 48.4 145.3#

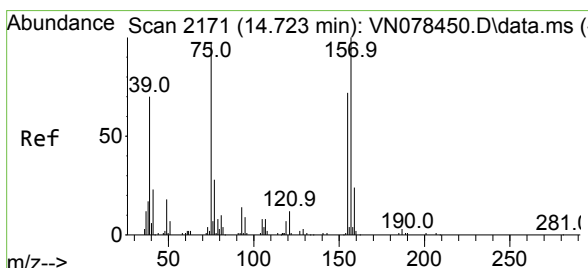
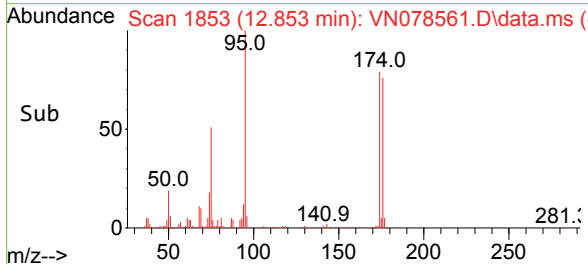
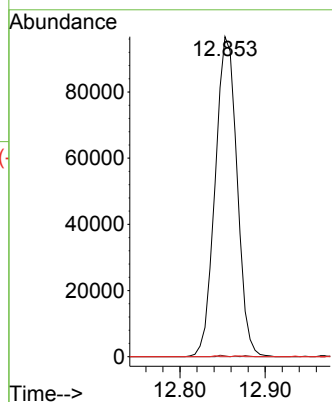
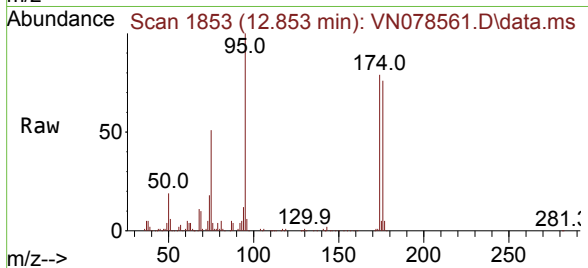




#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.870 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN078561.D
 Acq: 18 Jul 2023 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 GATE-1

Tgt Ion: 75 Resp: 172657
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.1 38.8 58.2#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.676 min Scan# 2163
 Delta R.T. -0.047 min
 Lab File: VN078561.D
 Acq: 18 Jul 2023 15:14

Tgt Ion: 75 Resp: 61
 Ion Ratio Lower Upper
 75 100
 155 0.0 39.1 117.2#
 157 0.0 50.3 150.9#

