

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072023\
 Data File : VN078592.D
 Acq On : 20 Jul 2023 14:09
 Operator : JC\MD
 Sample : 03683-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 21 06:11:58 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

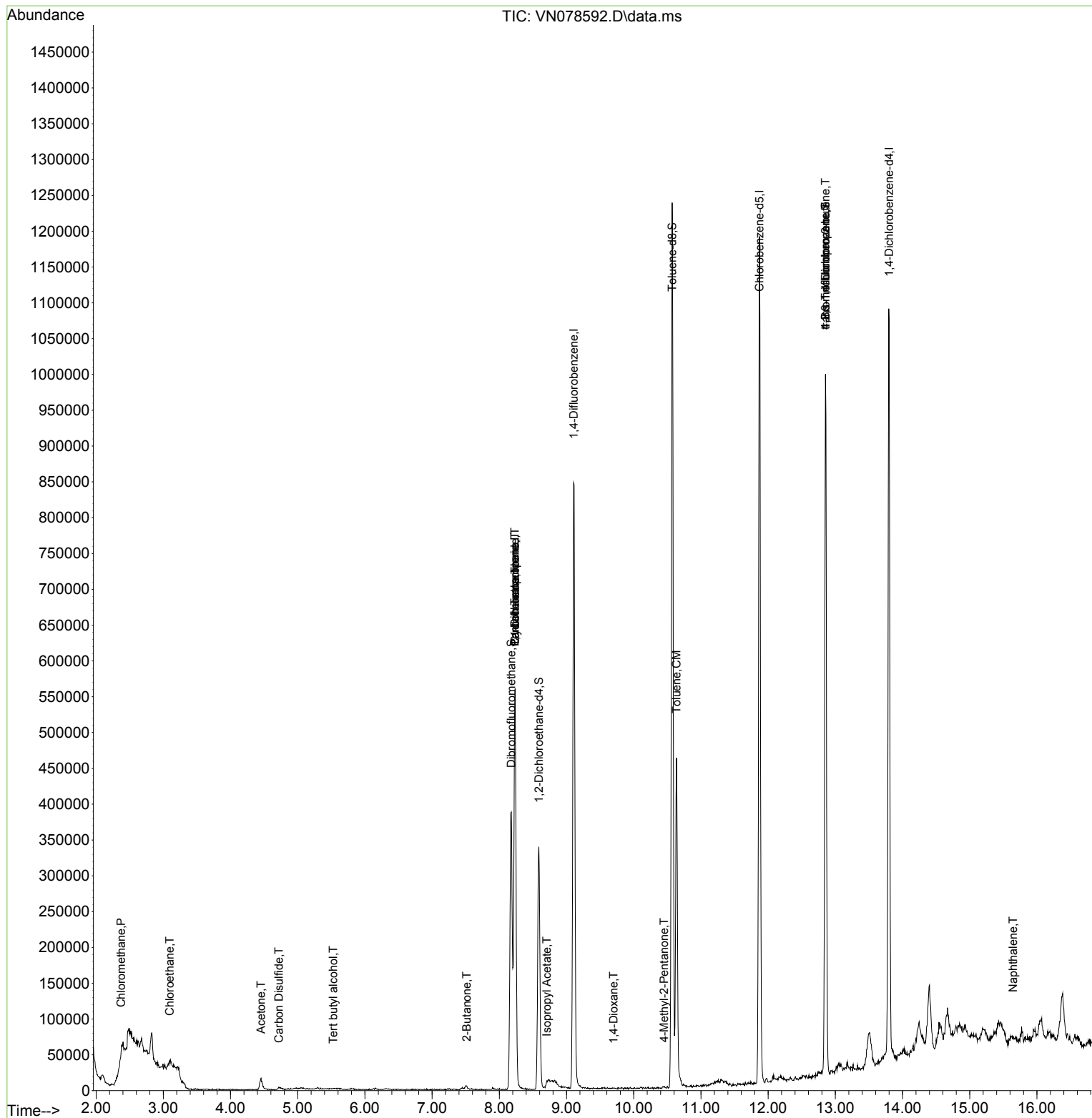
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	413626	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	756645	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	722114	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	294735	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	281867	50.832	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.660%	
35) Dibromofluoromethane	8.177	113	286962	55.869	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 111.740%	
50) Toluene-d8	10.571	98	897668	46.263	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 92.520%	
62) 4-Bromofluorobenzene	12.853	95	347272	58.104	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 116.200%	
Target Compounds						Qvalue
3) Chloromethane	2.371	50	5872	1.065	ug/l #	85
5) Bromomethane	2.971	94	937	Below Cal	#	65
6) Chloroethane	3.095	64	12848	1.100	ug/l #	51
11) Tert butyl alcohol	5.530	59	370	0.433	ug/l #	72
16) Acetone	4.453	43	26894	15.570	ug/l #	78
17) Carbon Disulfide	4.718	76	4705	0.373	ug/l #	75
20) Methylene Chloride	5.271	84	1372	Below Cal	#	28
25) 2-Butanone	7.512	43	7669	2.821	ug/l #	84
31) Cyclohexane	8.236	56	9259	1.236	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	34152	4.605	ug/l #	48
38) Carbon Tetrachloride	8.230	117	43542	5.402	ug/l #	17
43) Isopropyl Acetate	8.706	43	6114	0.601	ug/l #	49
49) 1,4-Dioxane	9.700	88	123	1.196	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	1370	0.226	ug/l #	67
52) Toluene	10.635	92	196647	14.441	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.918	83	761	Below Cal	#	73
76) 1,2,3-Trichloropropane	12.853	75	178284	25.025	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	178284	65.762	ug/l #	15
90) Hexachloroethane	14.347	117	793	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.688	75	98	Below Cal	#	54
94) Hexachlorobutadiene	15.506	225	61	Below Cal	#	19
95) Naphthalene	15.647	128	4219	0.365	ug/l #	76

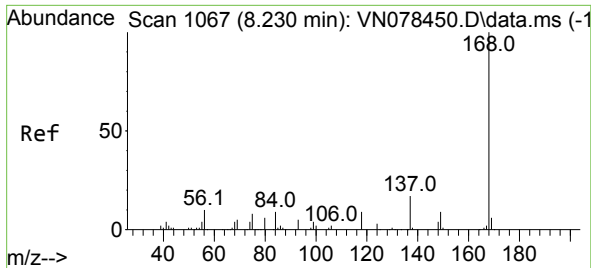
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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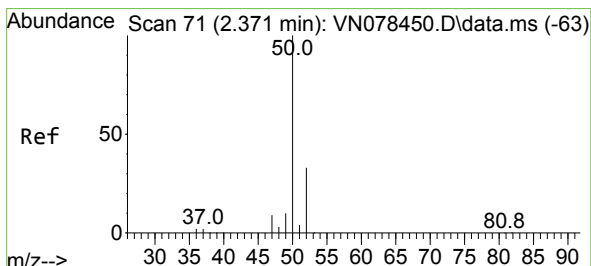
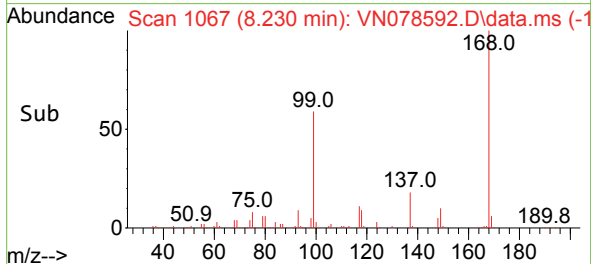
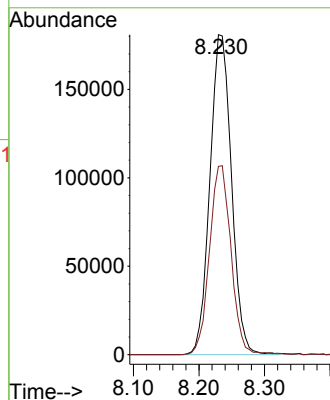
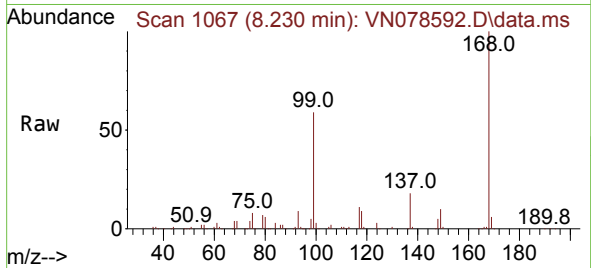




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

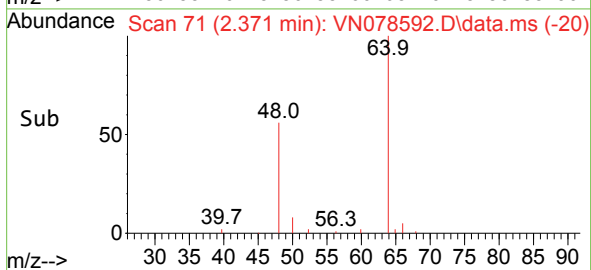
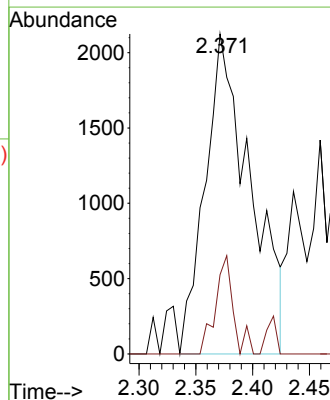
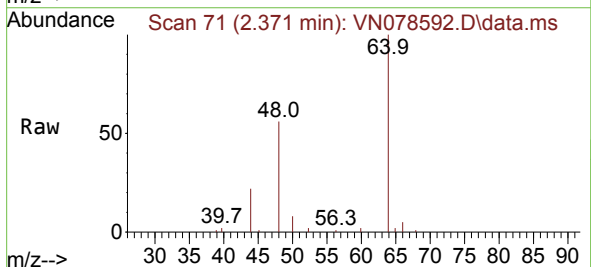
Instrument :
MSVOA_N
ClientSampleId :

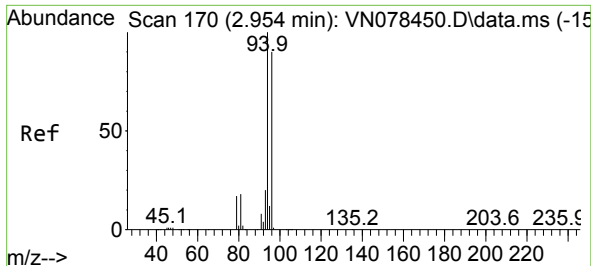
Tgt Ion:168 Resp: 413626
Ion Ratio Lower Upper
168 100
99 58.8 53.0 79.6



#3
Chloromethane
Concen: 1.065 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

Tgt Ion: 50 Resp: 5872
Ion Ratio Lower Upper
50 100
52 24.7 26.5 39.7#

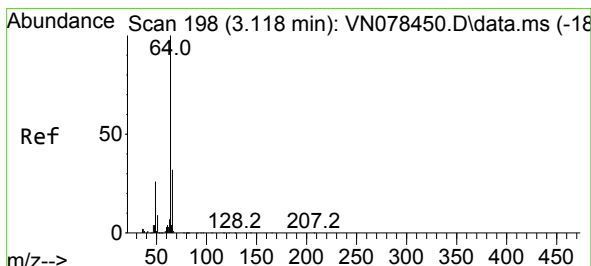
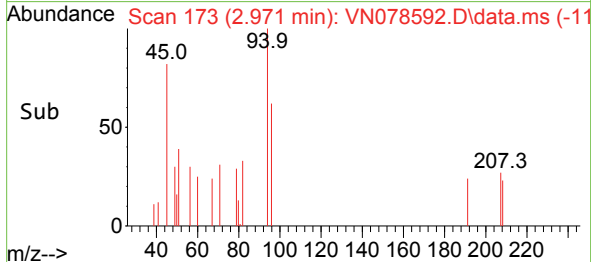
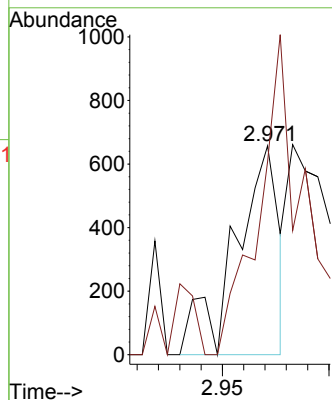
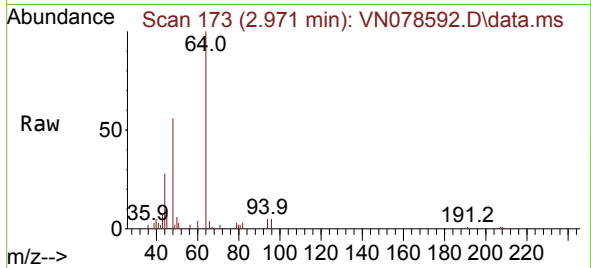




#5
Bromomethane
Concen: Below Cal
RT: 2.971 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

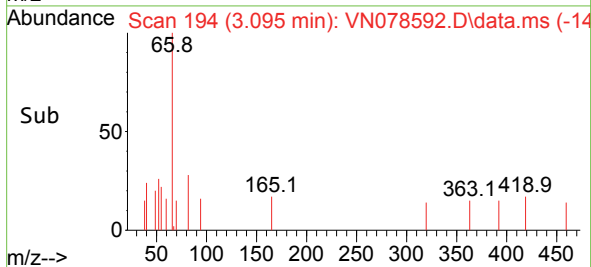
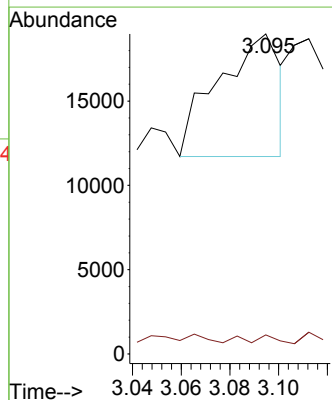
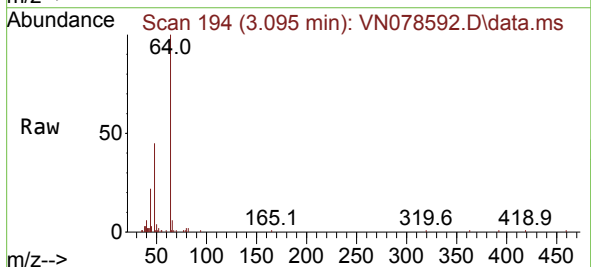
Instrument :
MSVOA_N
ClientSampleId :

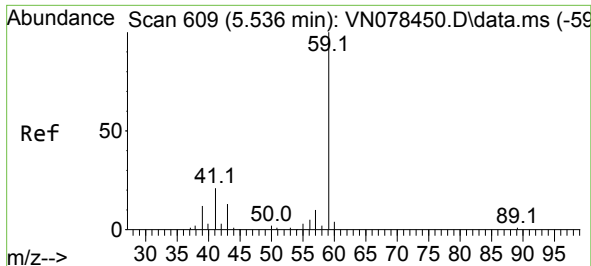
Tgt Ion: 94 Resp: 937
Ion Ratio Lower Upper
94 100
96 58.4 73.1 109.7#



#6
Chloroethane
Concen: 1.100 ug/l
RT: 3.095 min Scan# 194
Delta R.T. -0.023 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

Tgt Ion: 64 Resp: 12848
Ion Ratio Lower Upper
64 100
66 4.8 25.4 38.2#

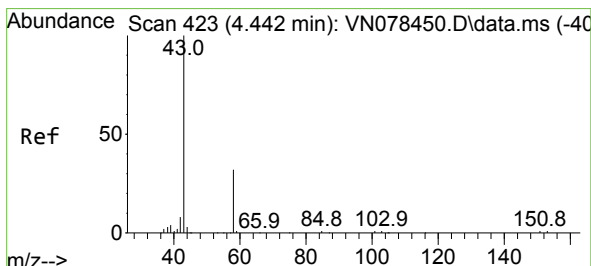
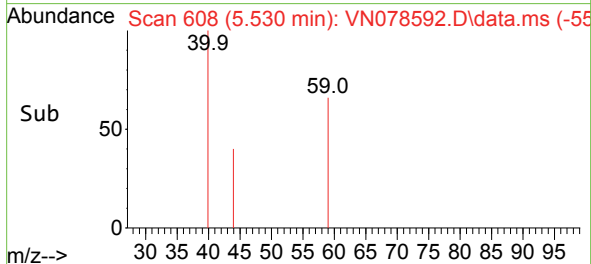
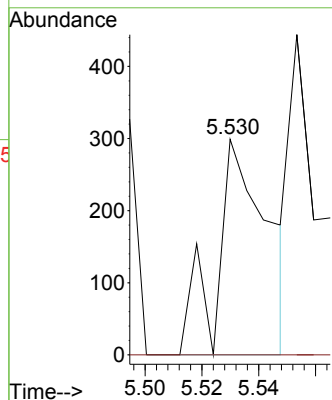
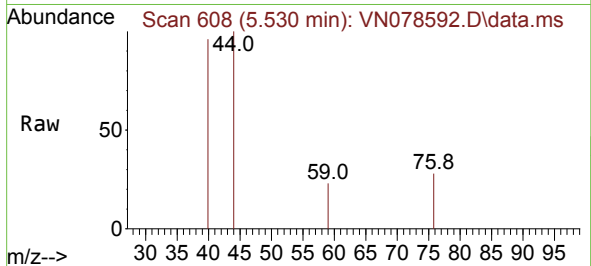




#11
Tert butyl alcohol
Concen: 0.433 ug/l
RT: 5.530 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

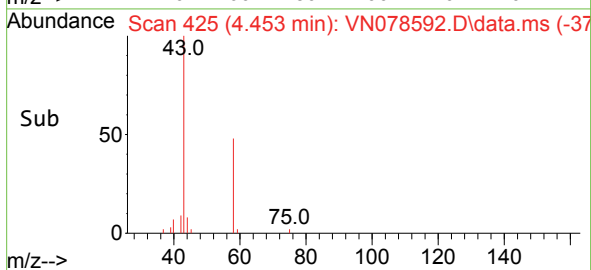
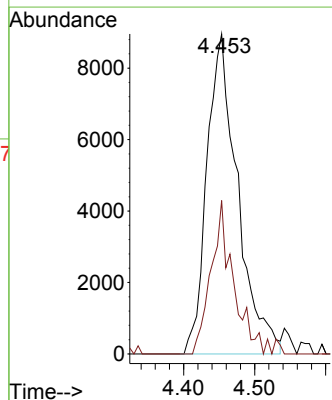
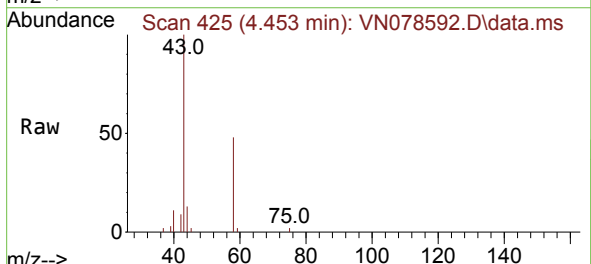
Instrument :
MSVOA_N
ClientSampleId :

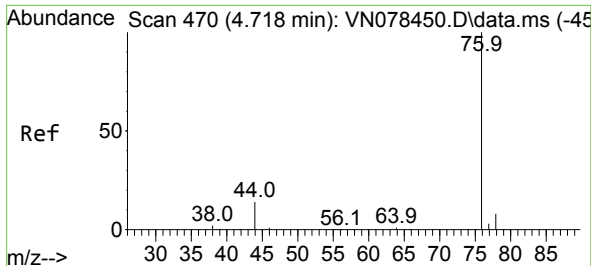
Tgt Ion: 59 Resp: 370
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 15.570 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.011 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

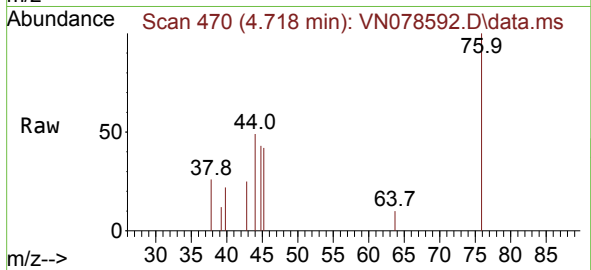
Tgt Ion: 43 Resp: 26894
Ion Ratio Lower Upper
43 100
58 48.0 28.0 42.0#



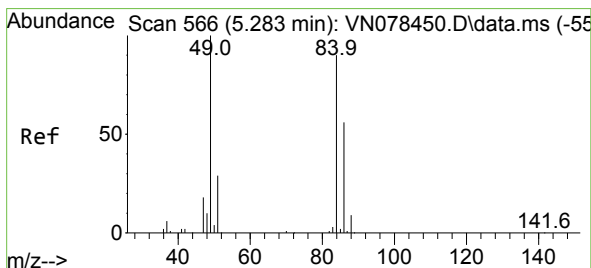
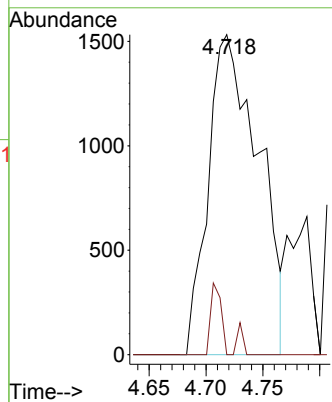
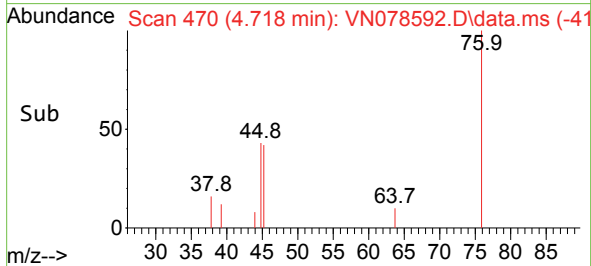


#17
Carbon Disulfide
Concen: 0.373 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

Instrument :
MSVOA_N
ClientSampleId :

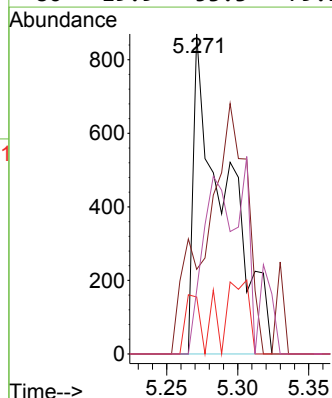
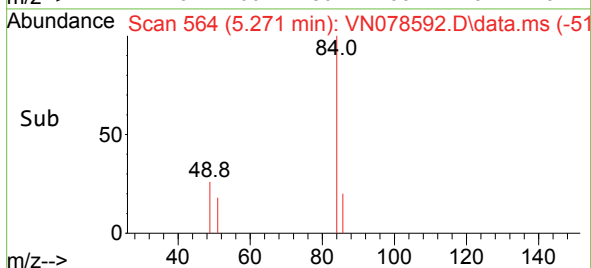
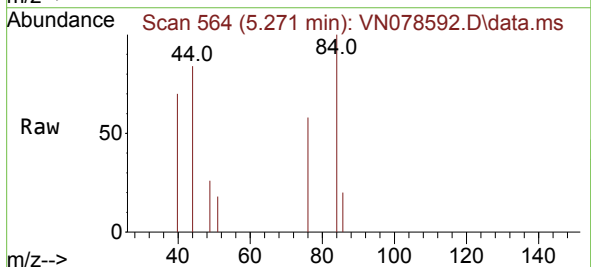


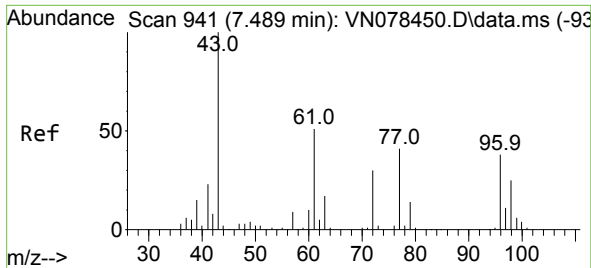
Tgt Ion: 76 Resp: 4705
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.271 min Scan# 564
Delta R.T. -0.012 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

Tgt Ion: 84 Resp: 1372
Ion Ratio Lower Upper
84 100
49 3.7 79.7 119.5#
51 17.8 25.2 37.8#
86 19.9 53.3 79.9#

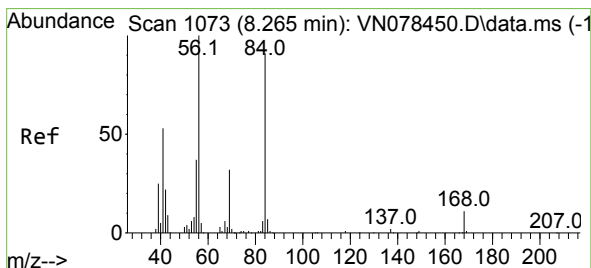
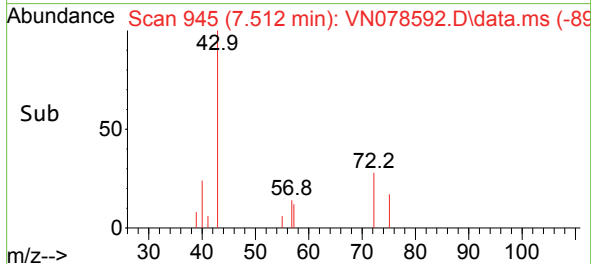
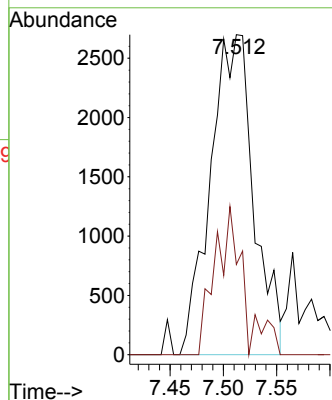
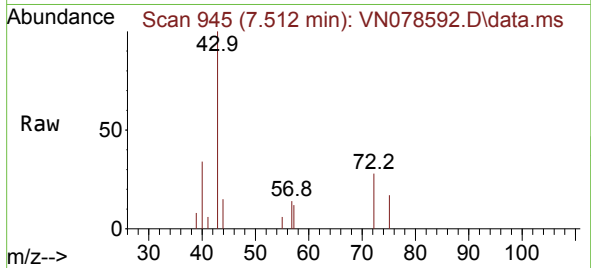




#25
2-Butanone
Concen: 2.821 ug/l
RT: 7.512 min Scan# 941
Delta R.T. 0.023 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

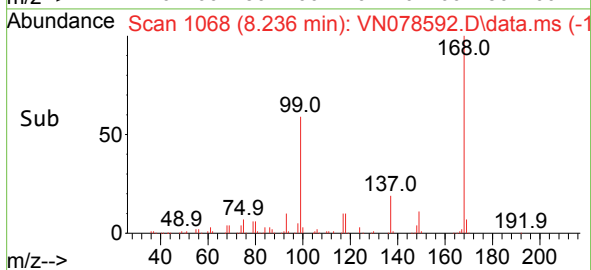
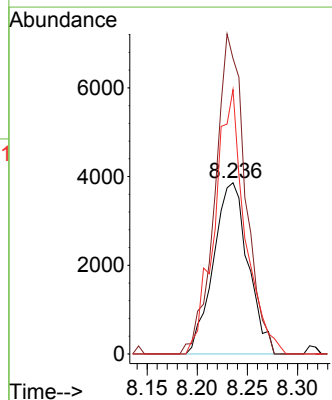
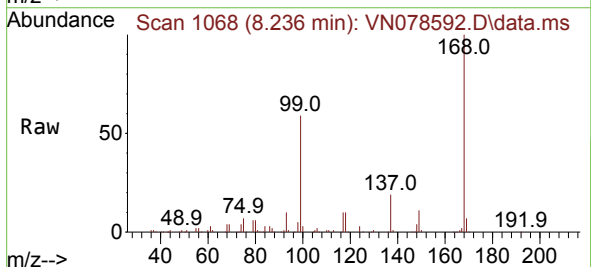
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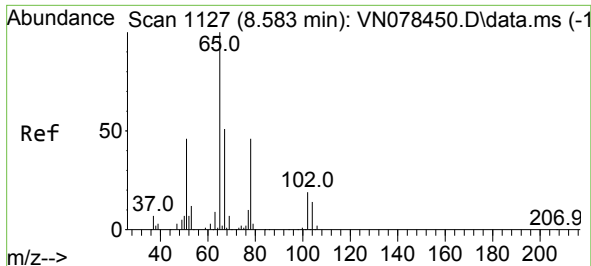
Tgt Ion: 43 Resp: 7669
Ion Ratio Lower Upper
43 100
72 28.2 30.2 45.2#



#31
Cyclohexane
Concen: 1.236 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

Tgt Ion: 56 Resp: 9259
Ion Ratio Lower Upper
56 100
69 172.6 26.8 40.2#
84 154.3 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 50.832 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078592.D

Acq: 20 Jul 2023 14:09

Instrument :

MSVOA_N

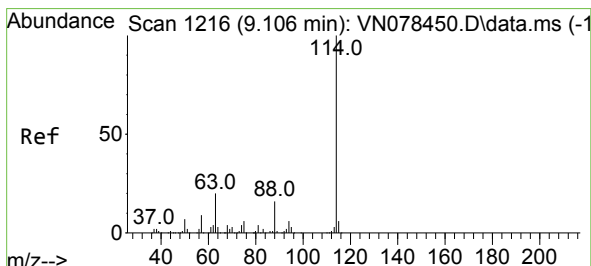
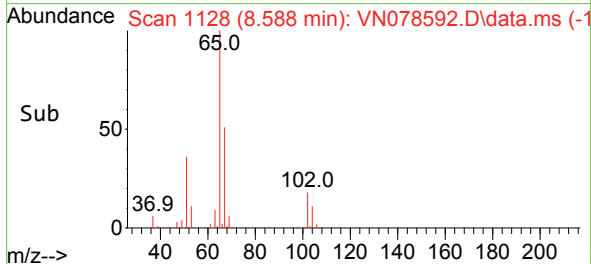
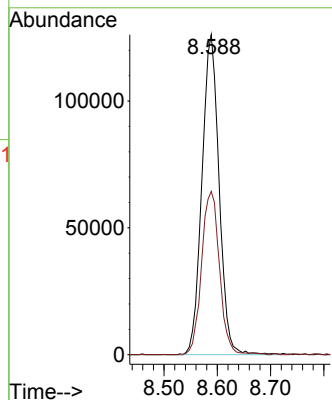
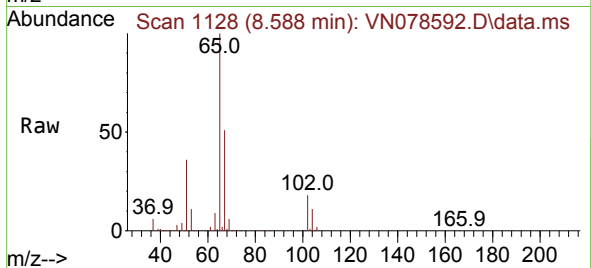
ClientSampleId :

Tgt Ion: 65 Resp: 281867

Ion Ratio Lower Upper

65 100

67 53.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN078592.D

Acq: 20 Jul 2023 14:09

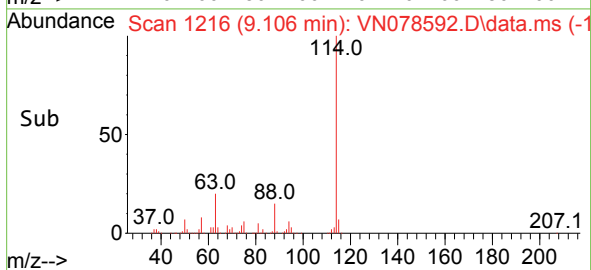
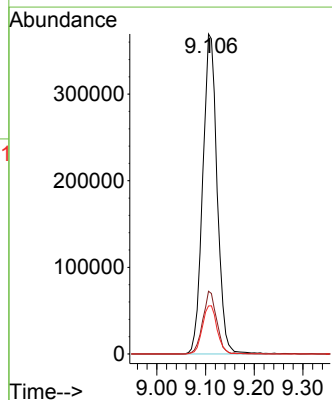
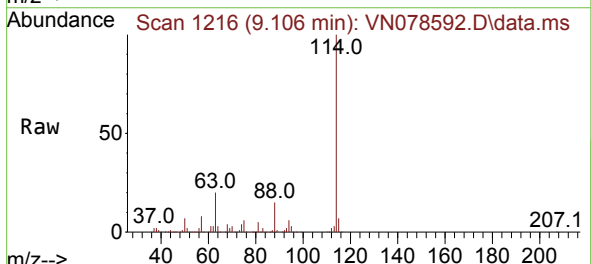
Tgt Ion: 114 Resp: 756645

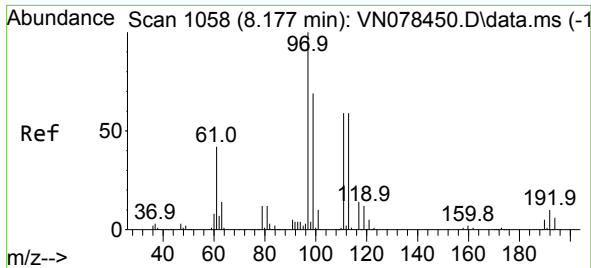
Ion Ratio Lower Upper

114 100

63 19.6 0.0 36.4

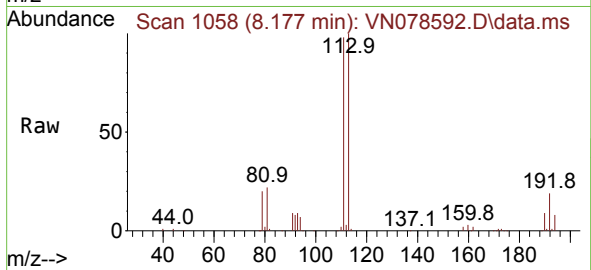
88 15.0 0.0 30.6



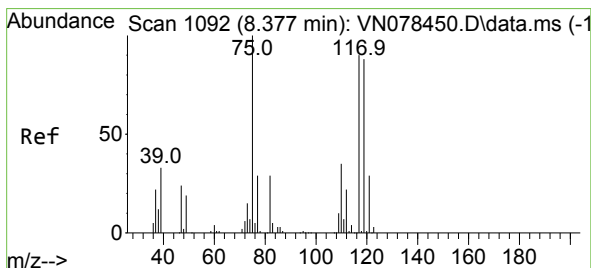
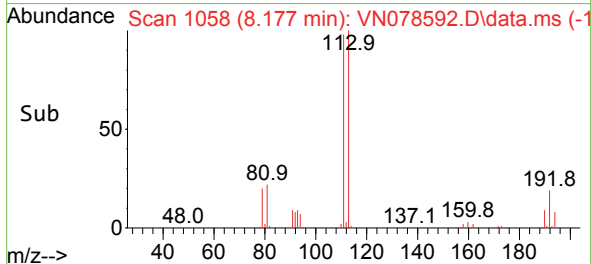
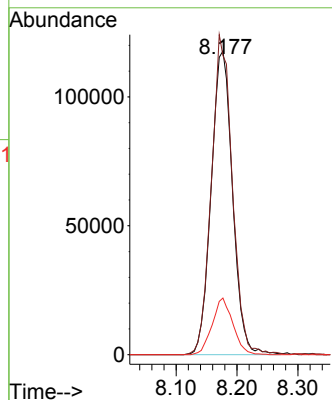


#35
Dibromofluoromethane
Concen: 55.869 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

Instrument :
MSVOA_N
ClientSampleId :

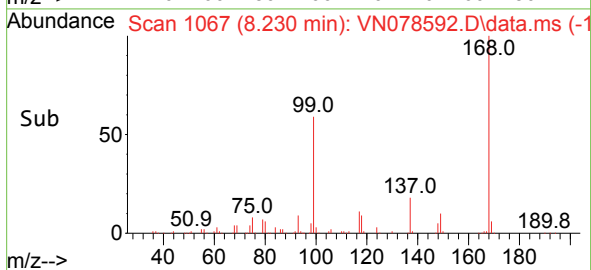
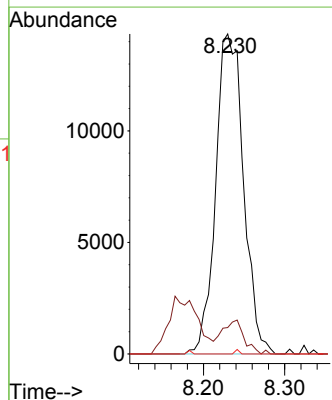
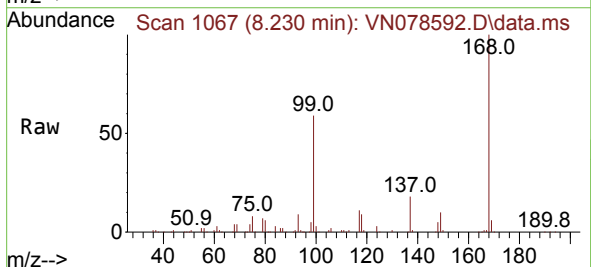


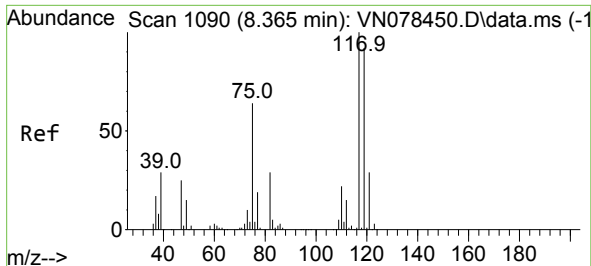
Tgt Ion:113 Resp: 286962
Ion Ratio Lower Upper
113 100
111 103.2 82.6 123.8
192 18.1 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.605 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

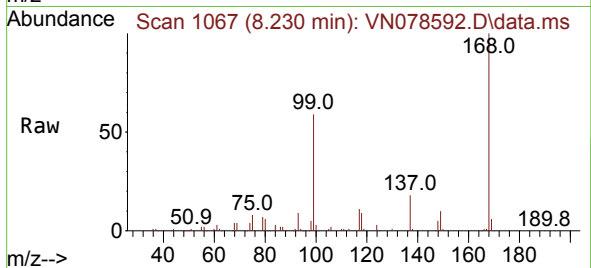
Tgt Ion: 75 Resp: 34152
Ion Ratio Lower Upper
75 100
110 8.5 19.1 57.3#
77 0.2 25.0 37.4#



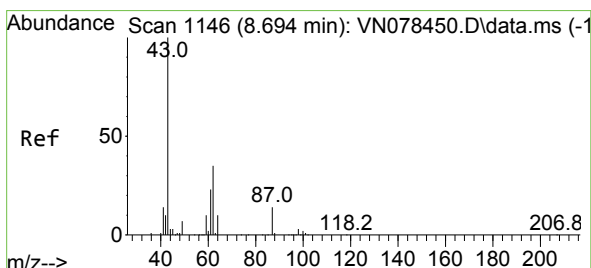
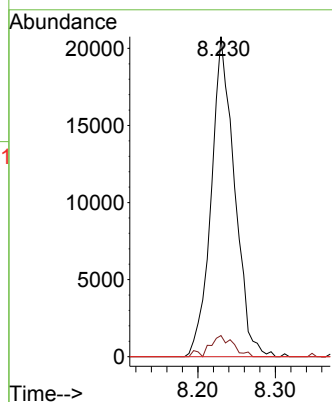
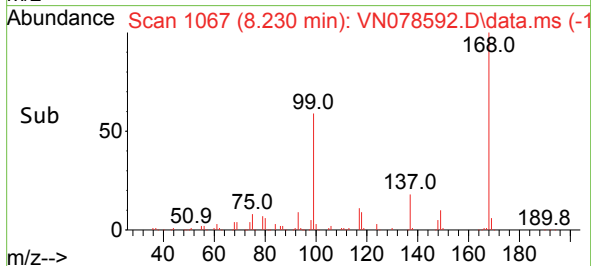


#38
Carbon Tetrachloride
Concen: 5.402 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

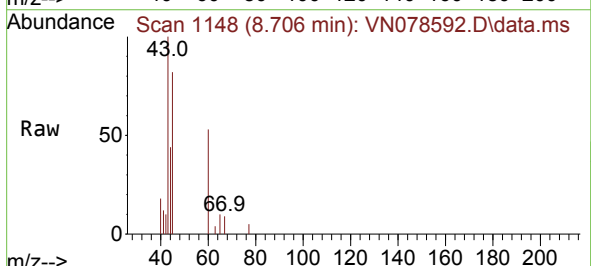
Instrument :
MSVOA_N
ClientSampleId :



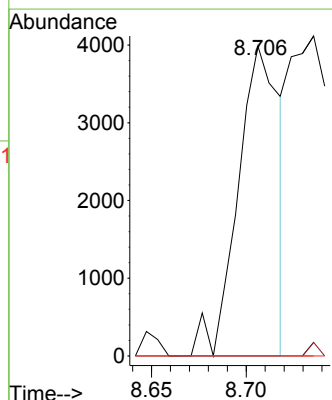
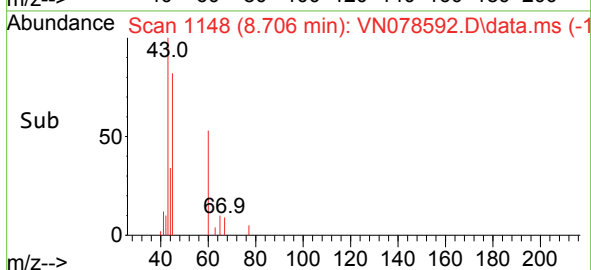
Tgt Ion:117 Resp: 43542
Ion Ratio Lower Upper
117 100
119 6.6 77.3 115.9#
121 0.0 23.3 34.9#

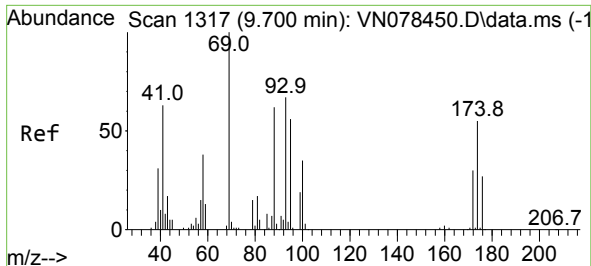


#43
Isopropyl Acetate
Concen: 0.601 ug/l
RT: 8.706 min Scan# 1148
Delta R.T. 0.012 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09



Tgt Ion: 43 Resp: 6114
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#





#49

1,4-Dioxane

Concen: 1.196 ug/l

RT: 9.700 min Scan# 11

Delta R.T. 0.000 min

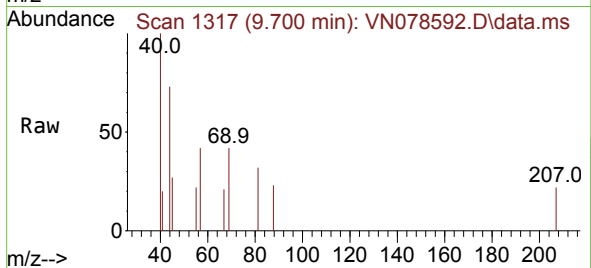
Lab File: VN078592.D

Acq: 20 Jul 2023 14:09

Instrument :

MSVOA_N

ClientSampleId :



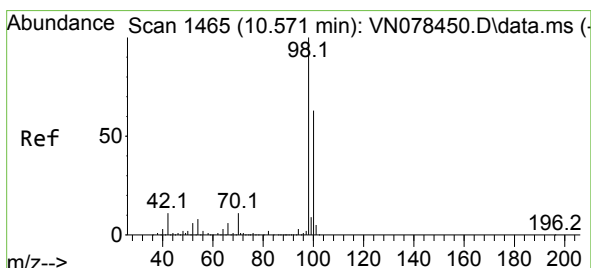
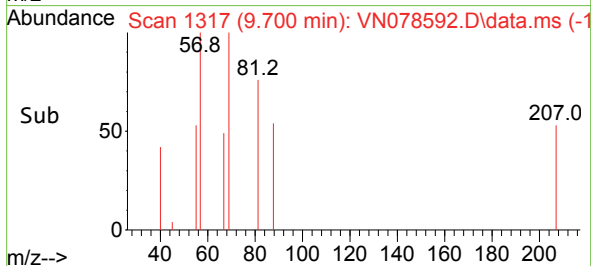
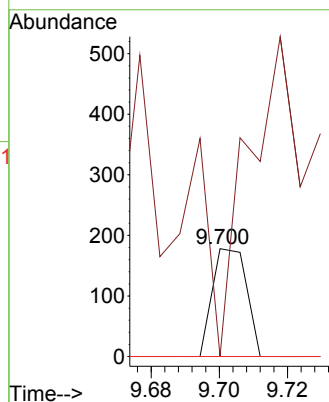
Tgt Ion: 88 Resp: 123

Ion Ratio Lower Upper

88 100

43 647.2 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 46.263 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078592.D

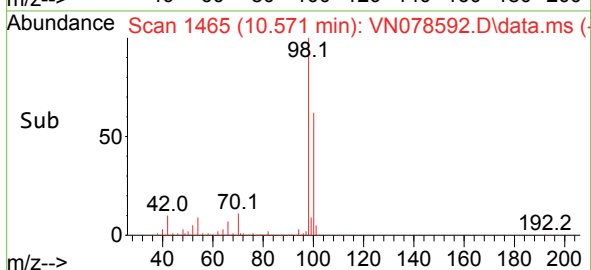
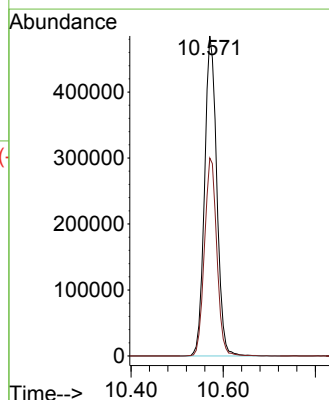
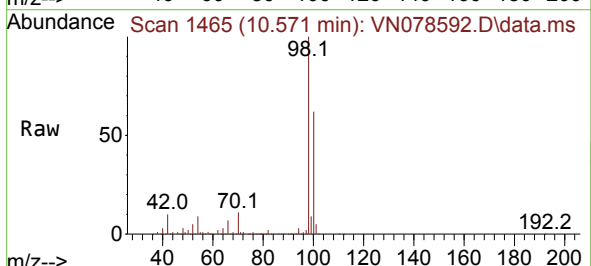
Acq: 20 Jul 2023 14:09

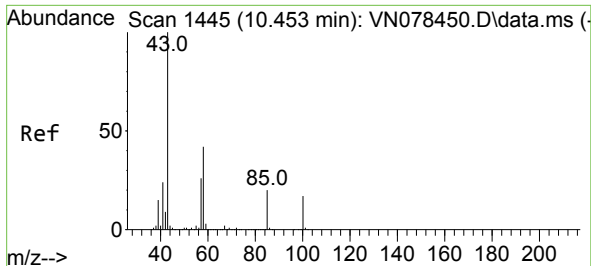
Tgt Ion: 98 Resp: 897668

Ion Ratio Lower Upper

98 100

100 62.6 52.0 78.0

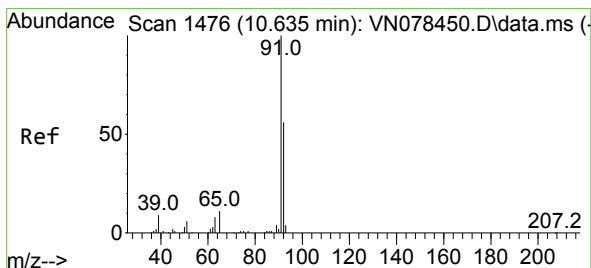
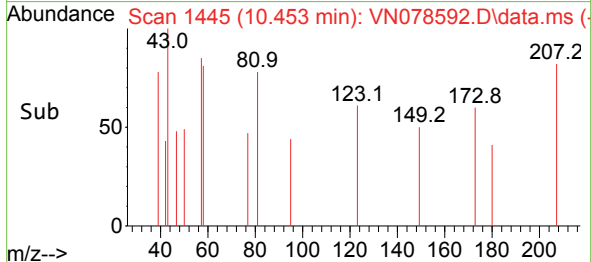
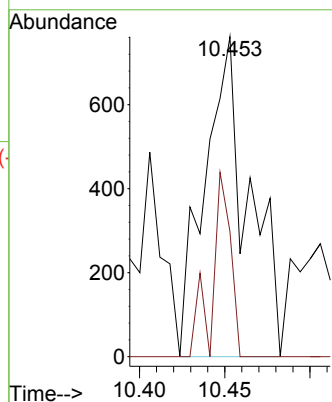
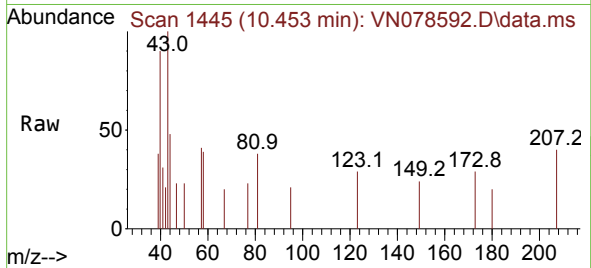




#51
4-Methyl-2-Pentanone
Concen: 0.226 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

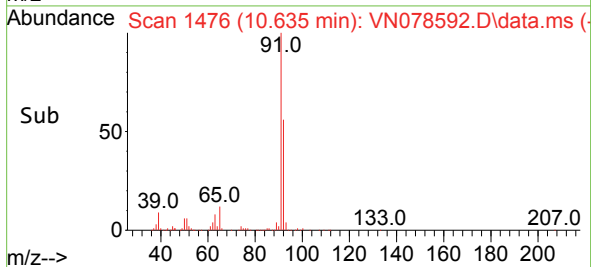
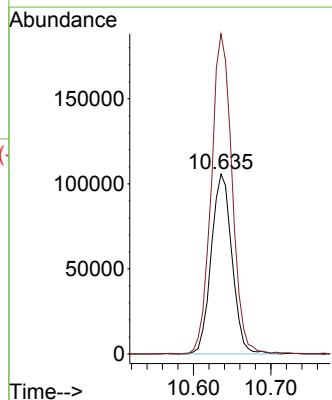
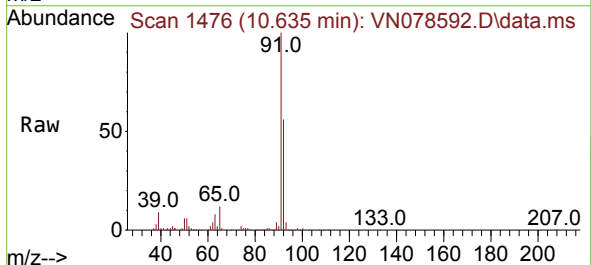
Instrument :
MSVOA_N
ClientSampleId :

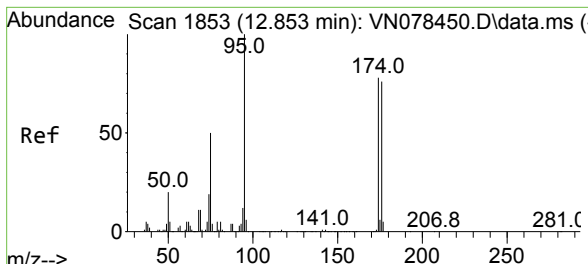
Tgt Ion: 43 Resp: 1370
Ion Ratio Lower Upper
43 100
58 24.1 36.6 54.8#



#52
Toluene
Concen: 14.441 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

Tgt Ion: 92 Resp: 196647
Ion Ratio Lower Upper
92 100
91 179.3 137.4 206.0

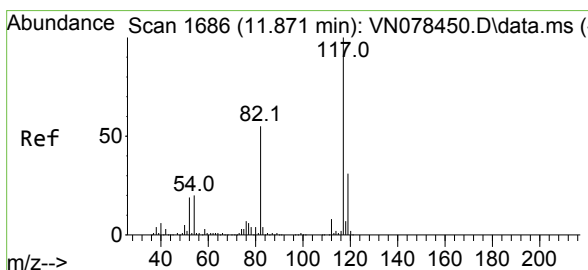
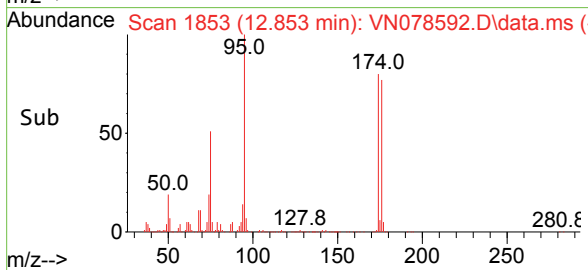
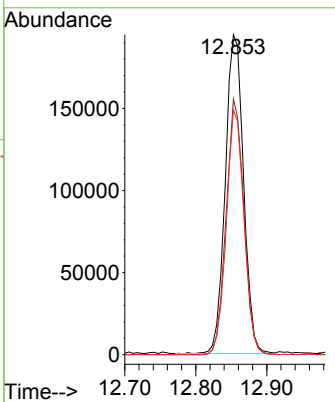
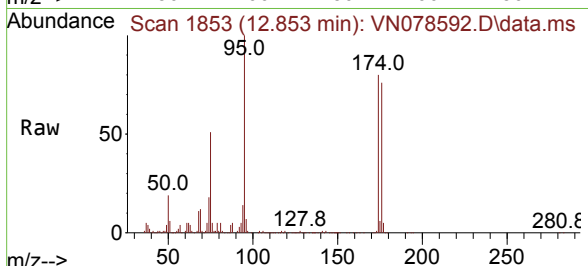




#62
 4-Bromofluorobenzene
 Concen: 58.104 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078592.D
 Acq: 20 Jul 2023 14:09

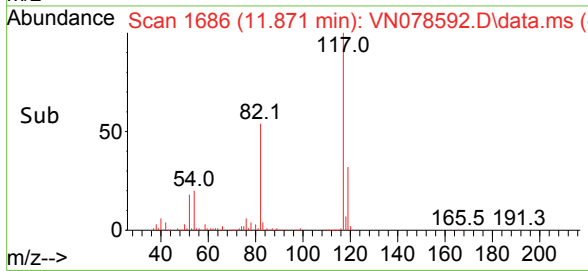
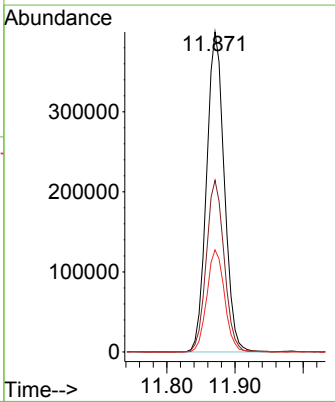
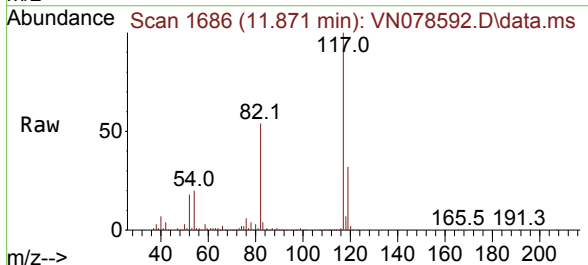
Instrument :
 MSVOA_N
 ClientSampleId :

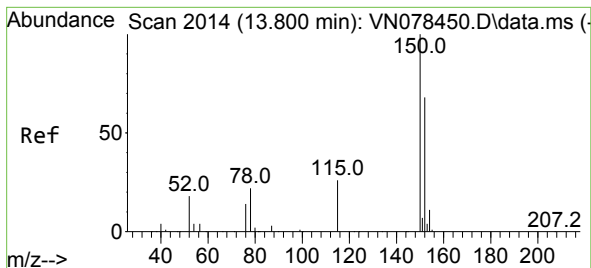
Tgt Ion:	95	Resp:	347272
Ion	Ratio	Lower	Upper
95	100		
174	77.8	0.0	143.8
176	74.5	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: VN078592.D
 Acq: 20 Jul 2023 14:09

Tgt Ion:	117	Resp:	722114
Ion	Ratio	Lower	Upper
117	100		
82	53.7	44.0	66.0
119	31.9	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. -0.000 min

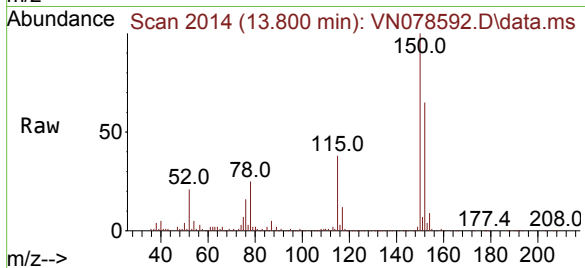
Lab File: VN078592.D

Acq: 20 Jul 2023 14:09

Instrument :

MSVOA_N

ClientSampleId :



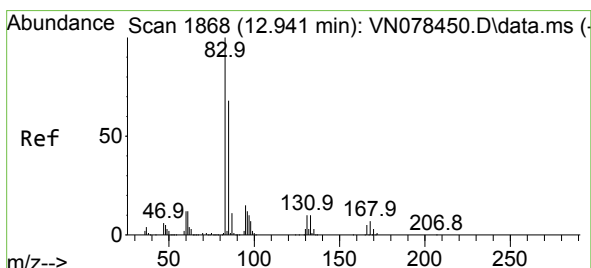
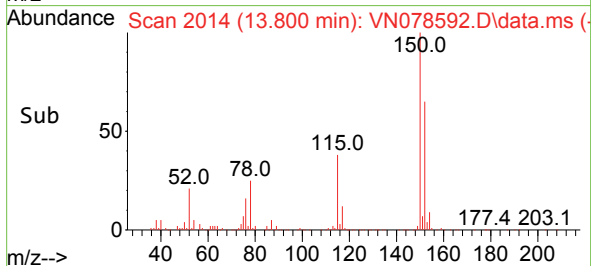
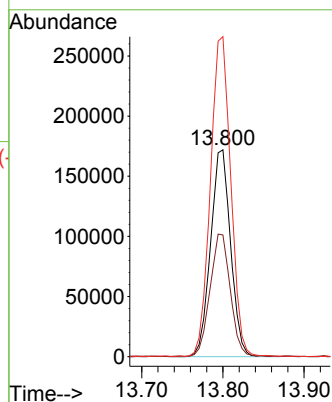
Tgt Ion:152 Resp: 294735

Ion Ratio Lower Upper

152 100

115 59.7 32.3 96.8

150 156.7 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.918 min Scan# 1864

Delta R.T. -0.023 min

Lab File: VN078592.D

Acq: 20 Jul 2023 14:09

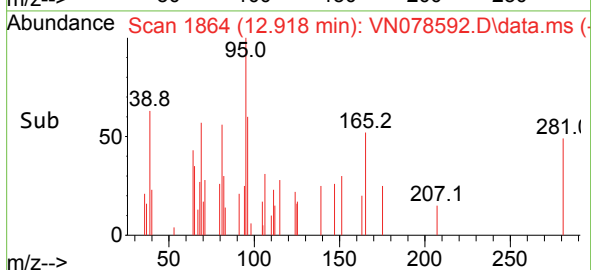
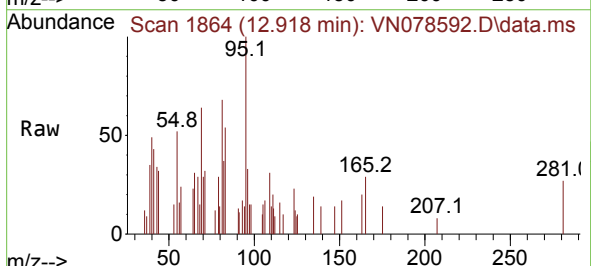
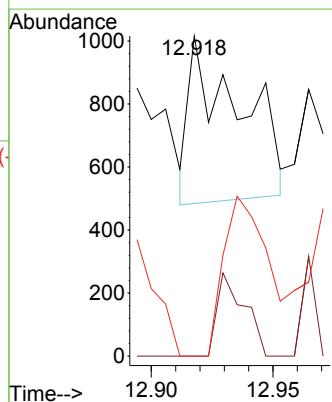
Tgt Ion: 83 Resp: 761

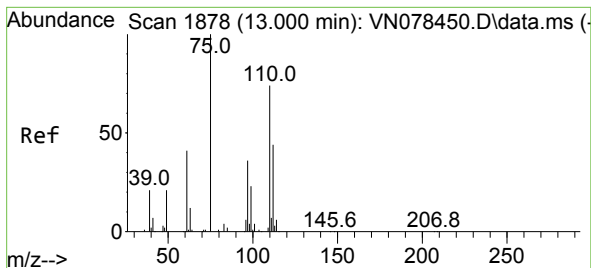
Ion Ratio Lower Upper

83 100

131 26.9 5.0 15.0#

85 82.9 31.9 95.7





#76

1,2,3-Trichloropropane

Concen: 25.025 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078592.D

Acq: 20 Jul 2023 14:09

Instrument :

MSVOA_N

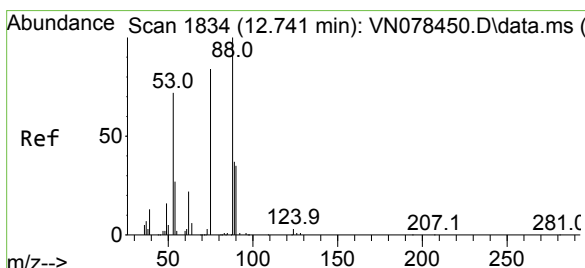
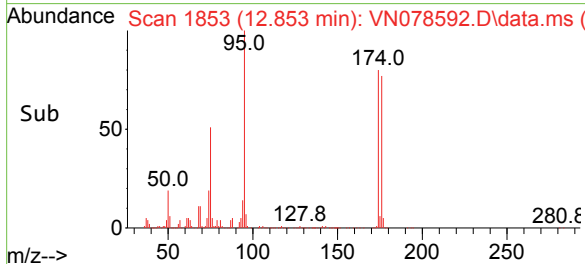
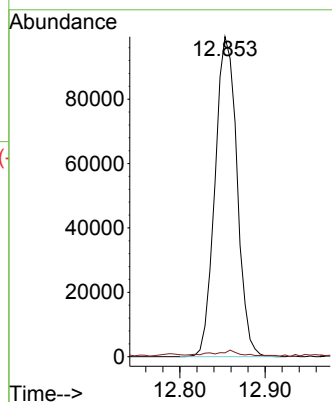
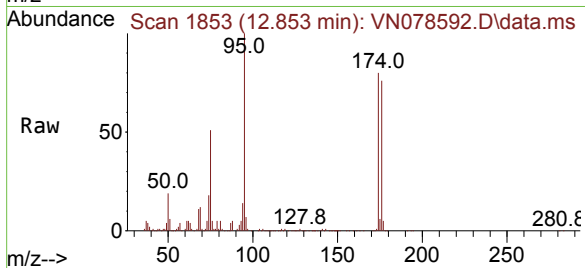
ClientSampleId :

Tgt Ion: 75 Resp: 178284

Ion Ratio Lower Upper

75 100

77 1.0 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.762 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078592.D

Acq: 20 Jul 2023 14:09

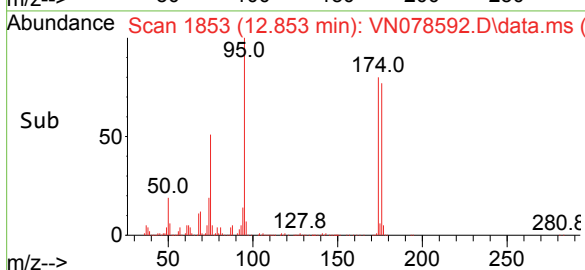
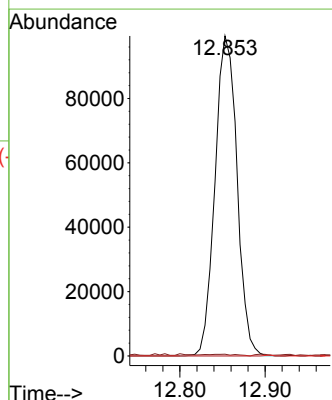
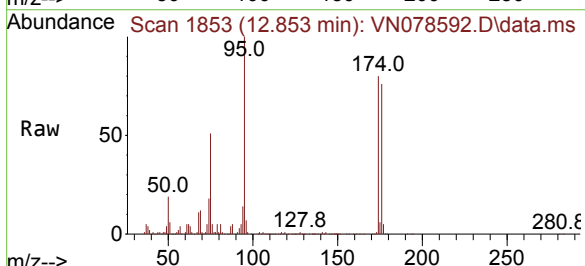
Tgt Ion: 75 Resp: 178284

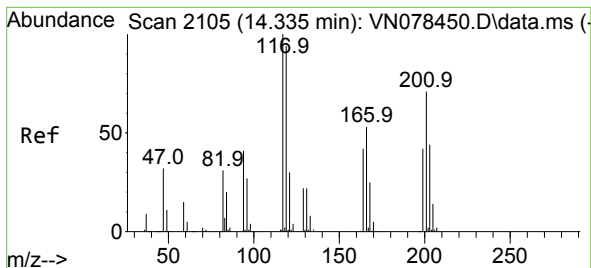
Ion Ratio Lower Upper

75 100

53 0.7 67.4 101.2#

89 0.0 38.8 58.2#





#90

Hexachloroethane

Concen: Below Cal

RT: 14.347 min Scan# 2105

Delta R.T. 0.012 min

Lab File: VN078592.D

Acq: 20 Jul 2023 14:09

Instrument :

MSVOA_N

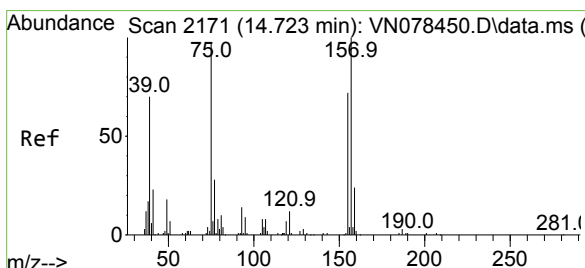
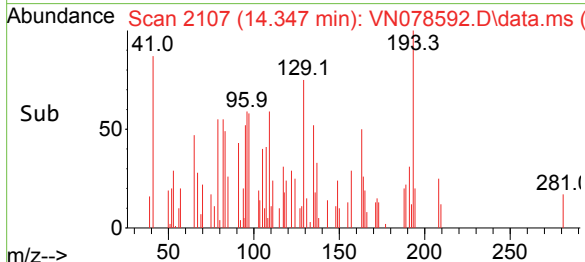
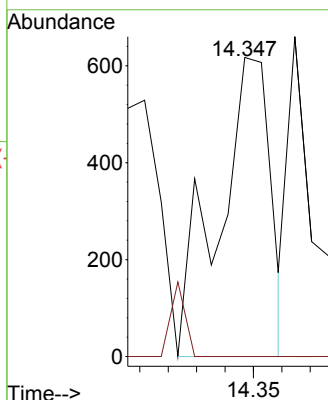
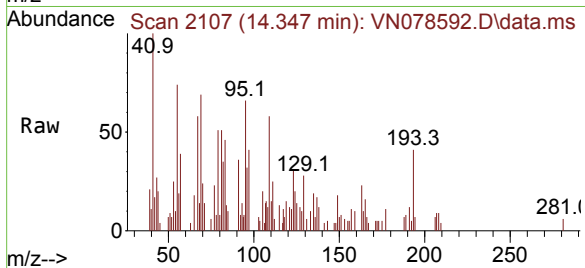
ClientSampleId :

Tgt Ion:117 Resp: 793

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.688 min Scan# 2165

Delta R.T. -0.035 min

Lab File: VN078592.D

Acq: 20 Jul 2023 14:09

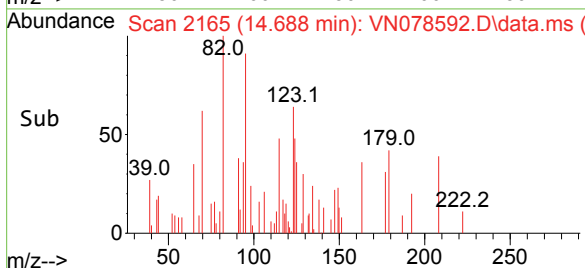
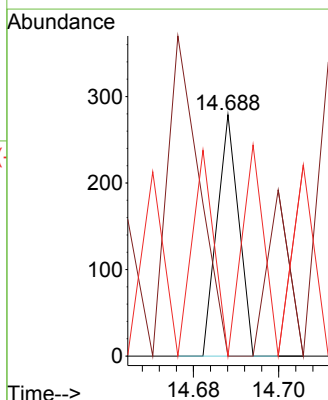
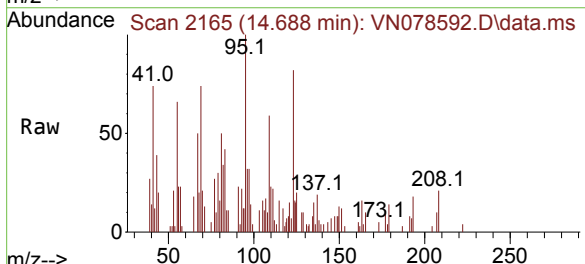
Tgt Ion: 75 Resp: 98

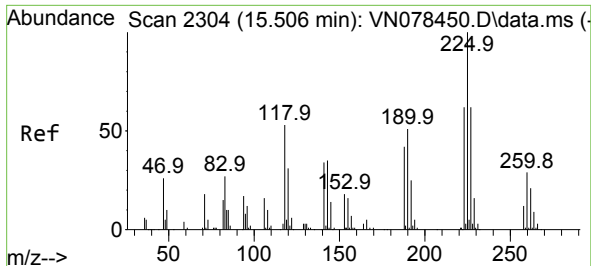
Ion Ratio Lower Upper

75 100

155 0.0 39.1 117.2#

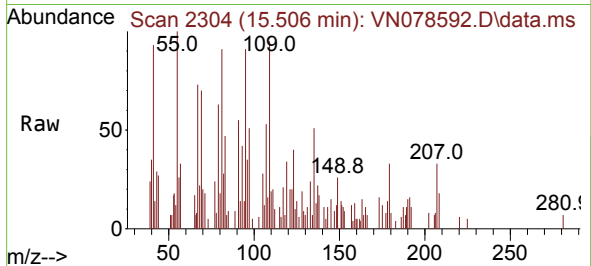
157 87.8 50.3 150.9



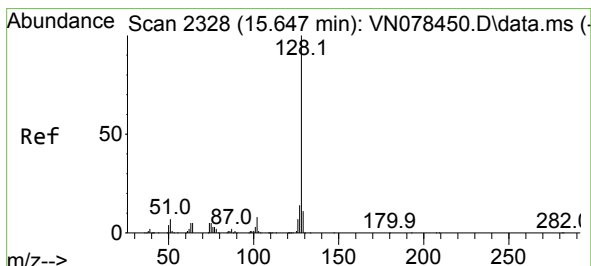
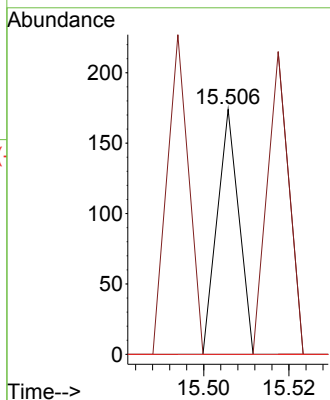
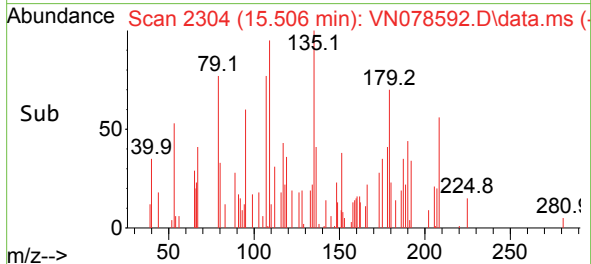


#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.506 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09

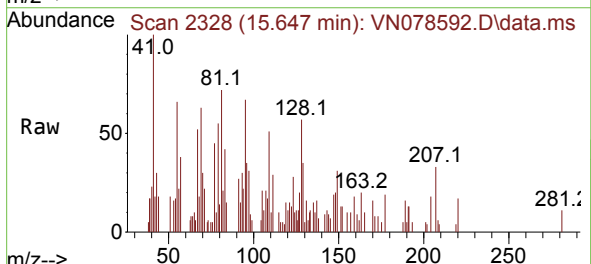
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:225 Resp: 61
Ion Ratio Lower Upper
225 100
223 124.6 31.3 93.8#
227 0.0 31.9 95.9#



#95
Naphthalene
Concen: 0.365 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. -0.000 min
Lab File: VN078592.D
Acq: 20 Jul 2023 14:09



Tgt Ion:128 Resp: 4219
Ion Ratio Lower Upper
128 100
127 18.8 10.0 15.0#
129 23.6 8.7 13.1#

