

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
 Data File : VN078510.D
 Acq On : 14 Jul 2023 10:10
 Operator : JC\MD
 Sample : VN0714WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0714WBL01

Quant Time: Jul 15 03:56:46 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)

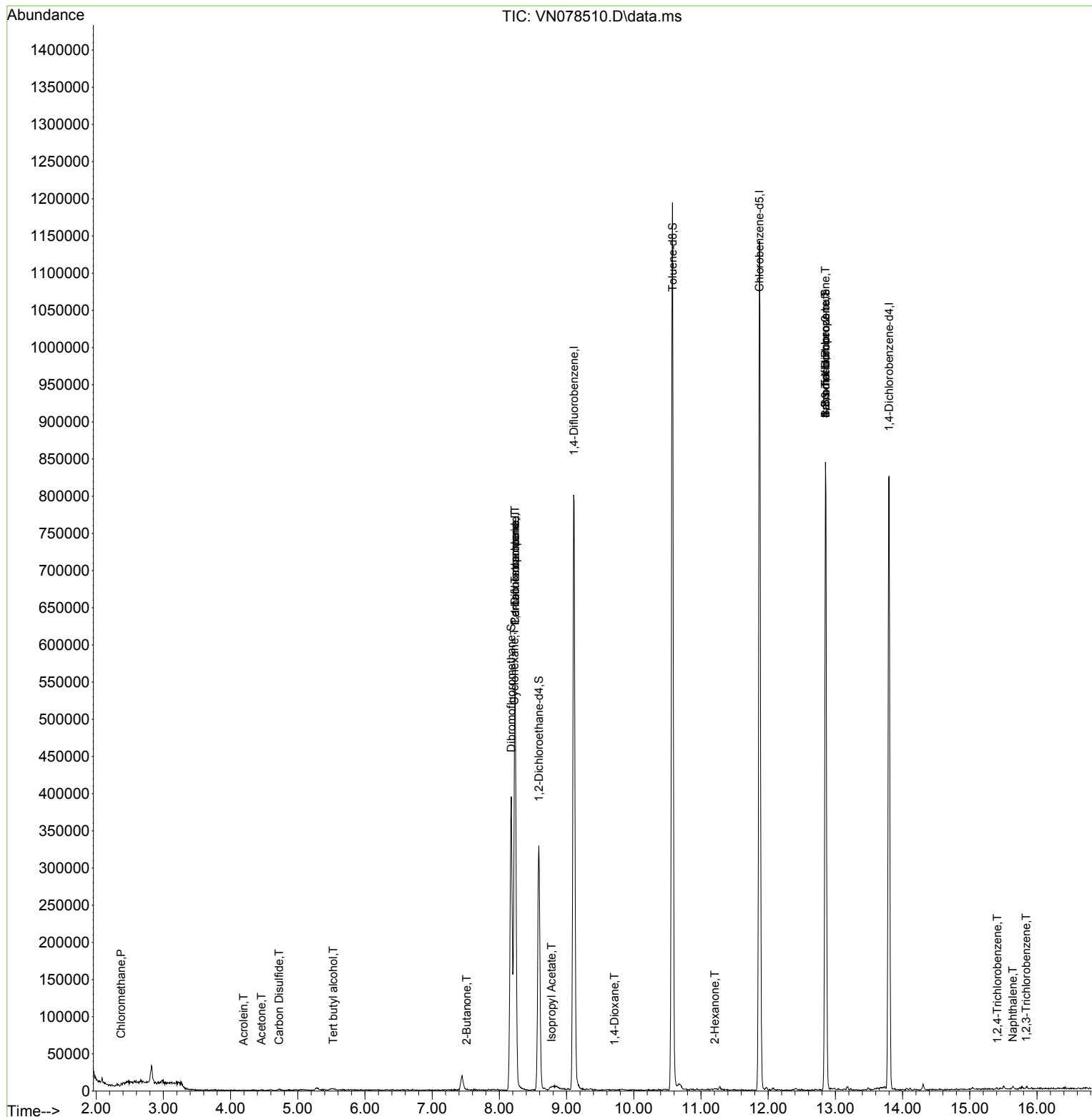
Internal Standards						
1) Pentafluorobenzene	8.235	168	410410	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	730500	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	682507	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	227070	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	270660	49.193	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.380%		
35) Dibromofluoromethane	8.177	113	281037	56.674	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	113.340%		
50) Toluene-d8	10.576	98	856820	45.738	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.480%		
62) 4-Bromofluorobenzene	12.853	95	294449	51.029	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	102.060%		
Target Compounds					Qvalue	
3) Chloromethane	2.371	50	1712	0.313	ug/l #	78
5) Bromomethane	2.971	94	2773	Below Cal		96
6) Chloroethane	3.165	64	308	Below Cal #		43
11) Tert butyl alcohol	5.530	59	542	0.639	ug/l #	72
13) Acrolein	4.195	56	197	0.236	ug/l #	16
16) Acetone	4.459	43	1239	0.723	ug/l #	40
17) Carbon Disulfide	4.724	76	2561	0.205	ug/l #	75
20) Methylene Chloride	5.283	84	1342	Below Cal #		72
25) 2-Butanone	7.512	43	765	0.284	ug/l #	37
31) Cyclohexane	8.224	56	8980	1.208	ug/l #	4
36) 1,1-Dichloropropene	8.235	75	33150	4.630	ug/l #	50
38) Carbon Tetrachloride	8.235	117	42855	5.507	ug/l #	17
43) Isopropyl Acetate	8.777	43	3140	0.320	ug/l #	49
49) 1,4-Dioxane	9.712	88	92	0.927	ug/l #	1
59) 2-Hexanone	11.206	43	1239	0.298	ug/l	85
71) Bromoform	12.853	173	2193	0.552	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.935	83	478	Below Cal #		69
76) 1,2,3-Trichloropropane	12.853	75	154837	28.211	ug/l #	1
77) Bromobenzene	12.988	156	419	Below Cal		66
81) trans-1,4-Dichloro-2-b...	12.853	75	154837	74.133	ug/l #	15
90) Hexachloroethane	14.341	117	61	Below Cal #		1
92) 1,2-Dibromo-3-Chloropr...	14.753	75	107	Below Cal #		4
93) 1,2,4-Trichlorobenzene	15.411	180	718	0.276	ug/l	75
94) Hexachlorobutadiene	15.500	225	863	Below Cal #		69
95) Naphthalene	15.641	128	3320	0.373	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.841	180	1079	0.361	ug/l	79

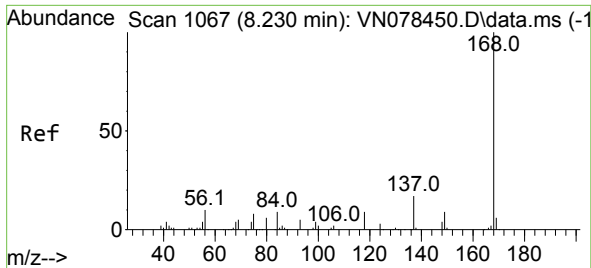
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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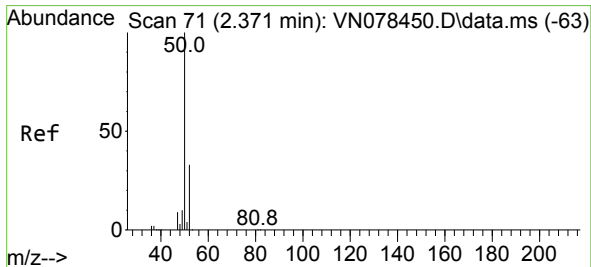
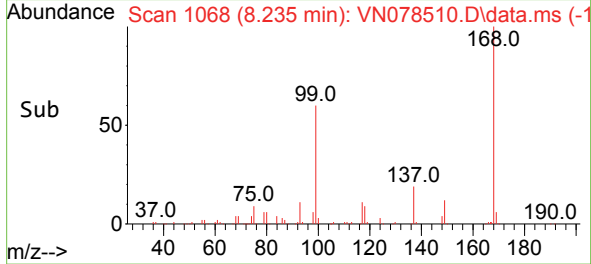
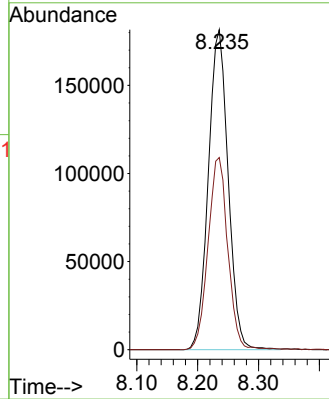
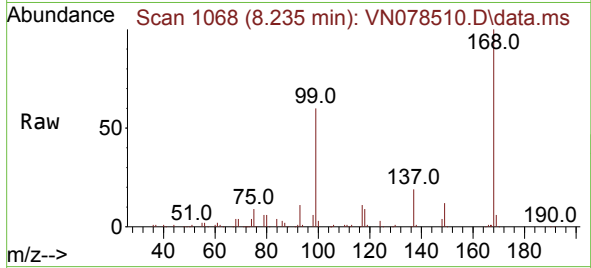




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

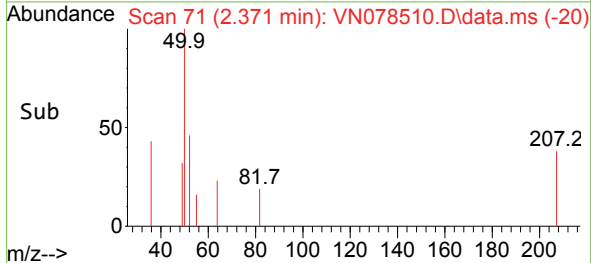
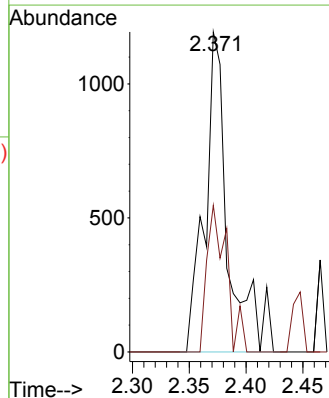
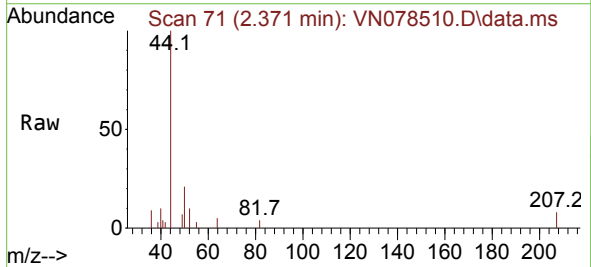
Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

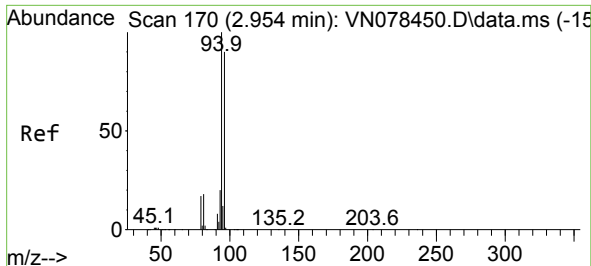
Tgt Ion:168 Resp: 410410
Ion Ratio Lower Upper
168 100
99 60.1 53.0 79.6



#3
Chloromethane
Concen: 0.313 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion: 50 Resp: 1712
Ion Ratio Lower Upper
50 100
52 45.8 26.5 39.7#

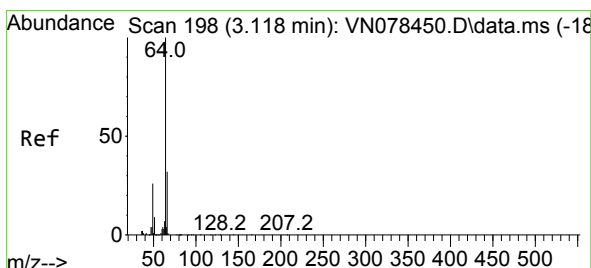
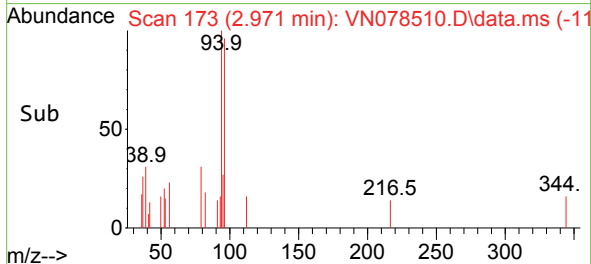
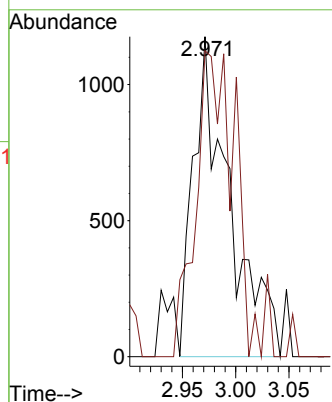
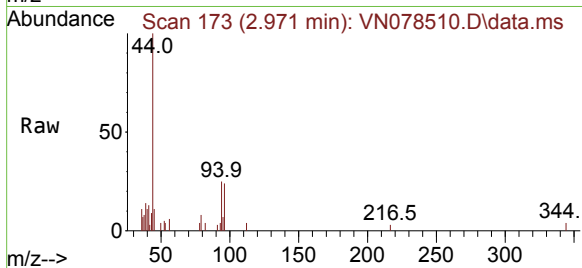




#5
Bromomethane
Concen: Below Cal
RT: 2.971 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

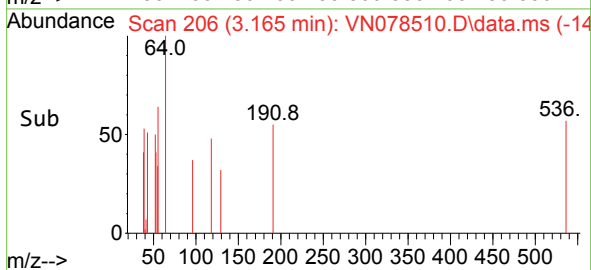
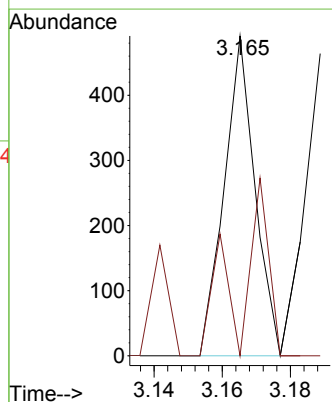
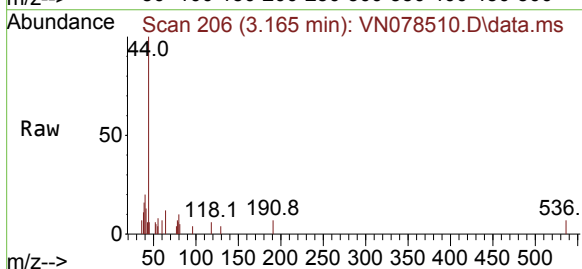
Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

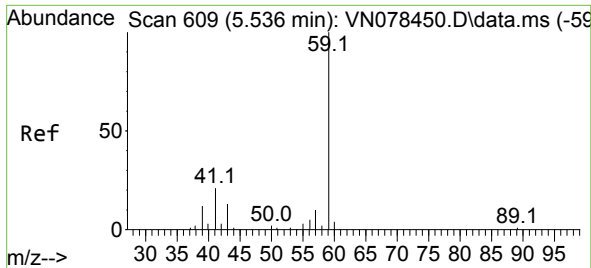
Tgt Ion: 94 Resp: 2773
Ion Ratio Lower Upper
94 100
96 95.6 73.1 109.7



#6
Chloroethane
Concen: Below Cal
RT: 3.165 min Scan# 206
Delta R.T. 0.047 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion: 64 Resp: 308
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

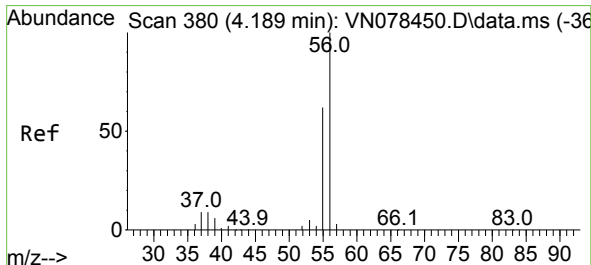
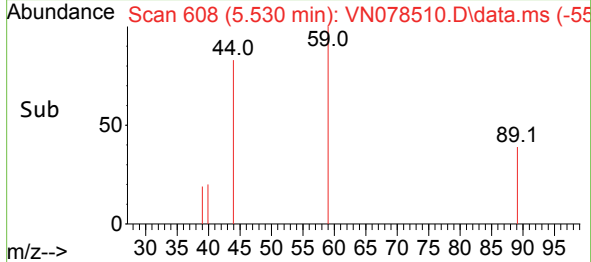
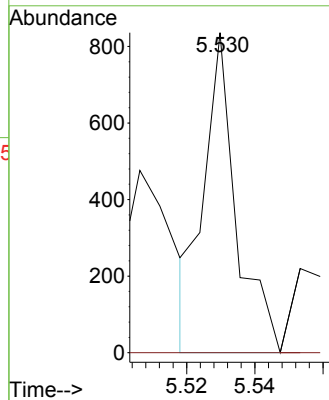
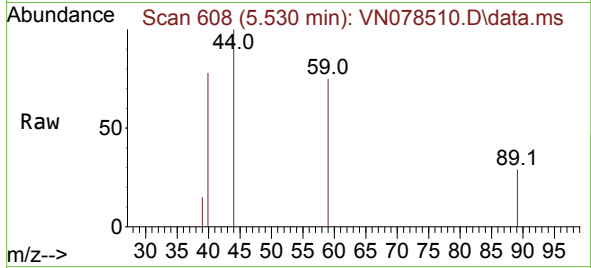




#11
Tert butyl alcohol
Concen: 0.639 ug/l
RT: 5.530 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

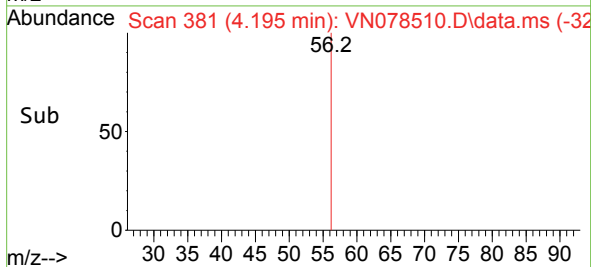
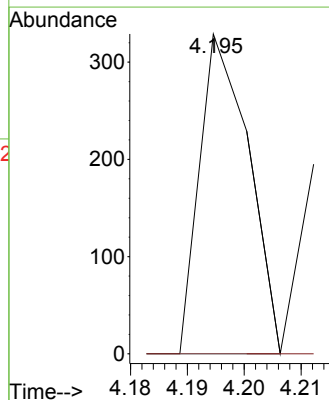
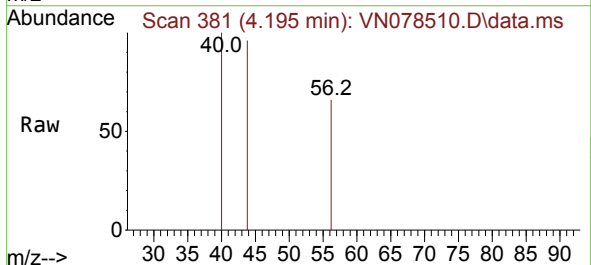
Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

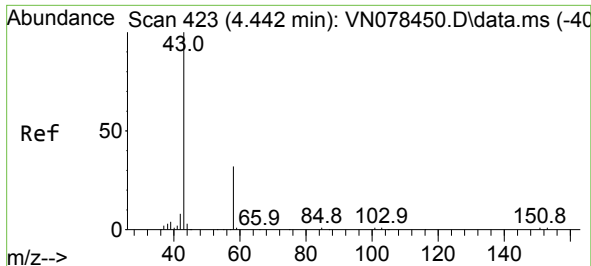
Tgt Ion: 59 Resp: 542
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.236 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.006 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion: 56 Resp: 197
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

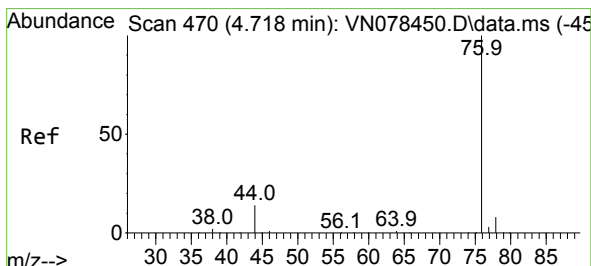
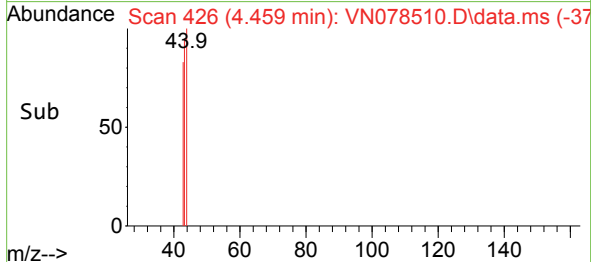
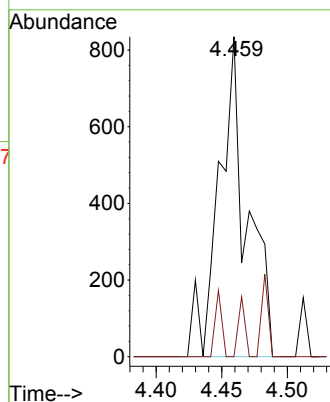
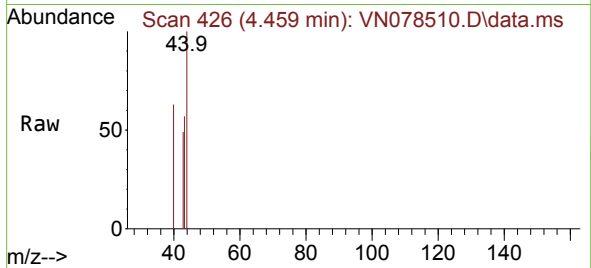




#16
Acetone
Concen: 0.723 ug/l
RT: 4.459 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

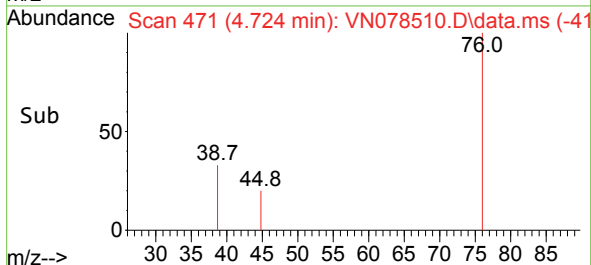
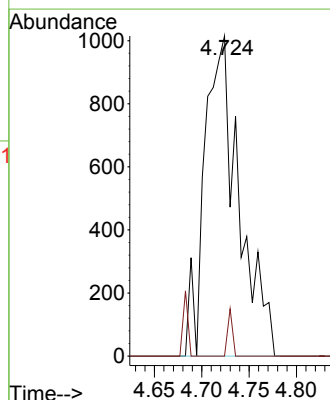
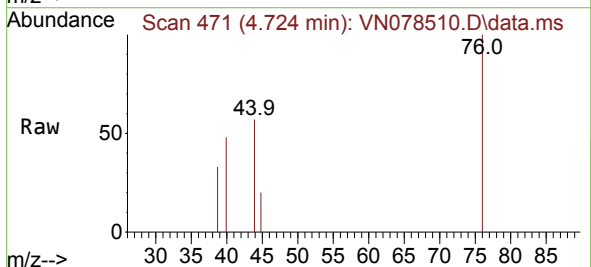
Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

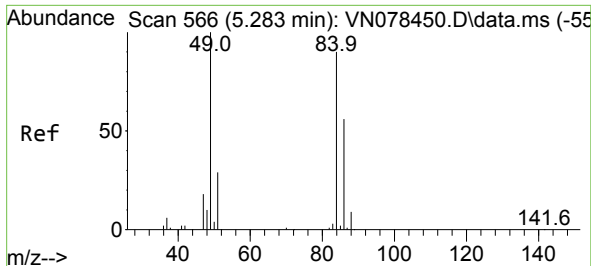
Tgt Ion: 43 Resp: 1239
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.205 ug/l
RT: 4.724 min Scan# 471
Delta R.T. 0.006 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion: 76 Resp: 2561
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

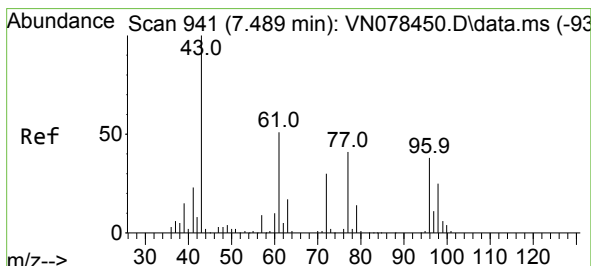
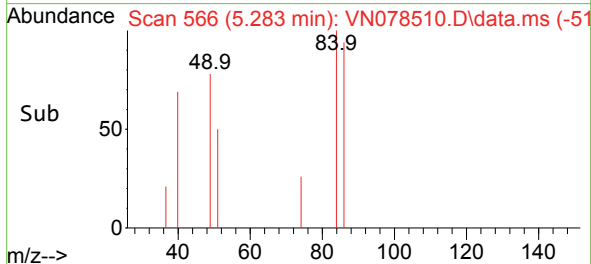
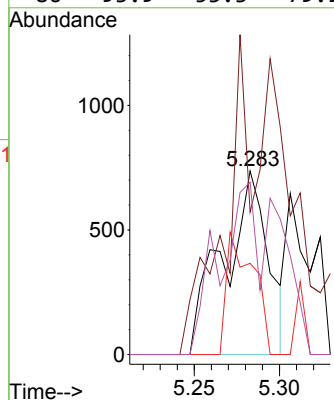
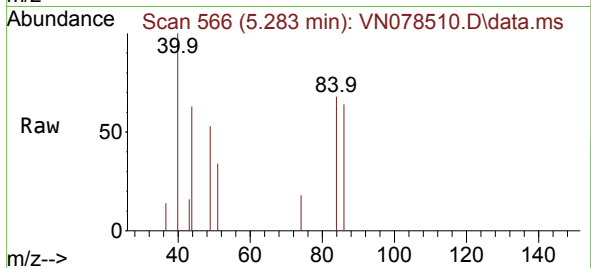




#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 501
Delta R.T. -0.000 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

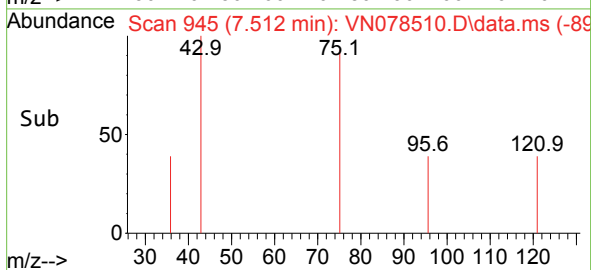
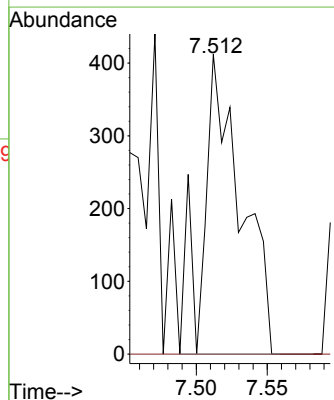
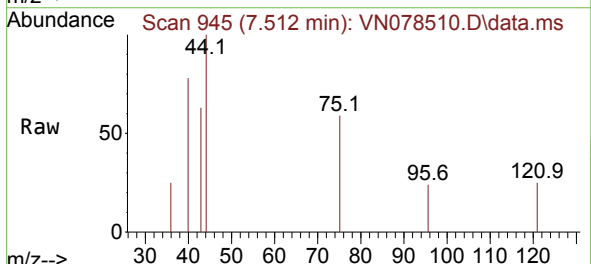
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MSVOA_N
ClientSampleId :
VN0714WBL01

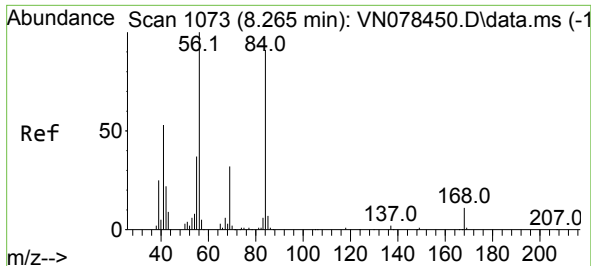
Tgt Ion: 84 Resp: 1342
Ion Ratio Lower Upper
84 100
49 77.6 79.7 119.5#
51 49.7 25.2 37.8#
86 93.9 53.3 79.9#



#25
2-Butanone
Concen: 0.284 ug/l
RT: 7.512 min Scan# 945
Delta R.T. 0.023 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion: 43 Resp: 765
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#

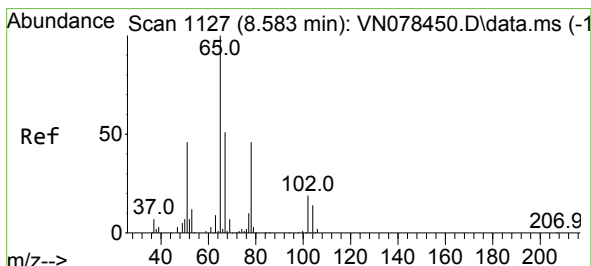
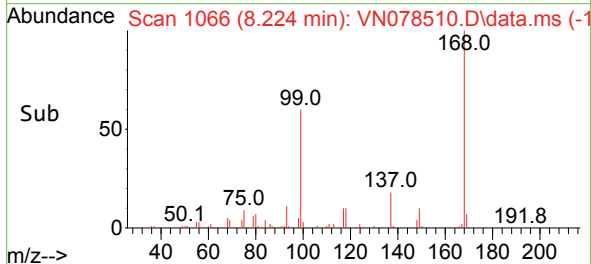
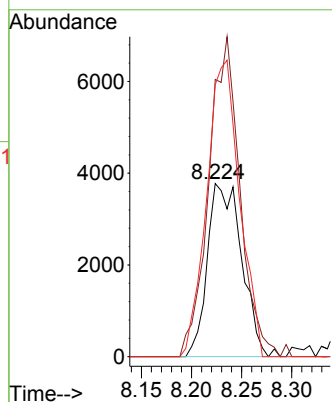
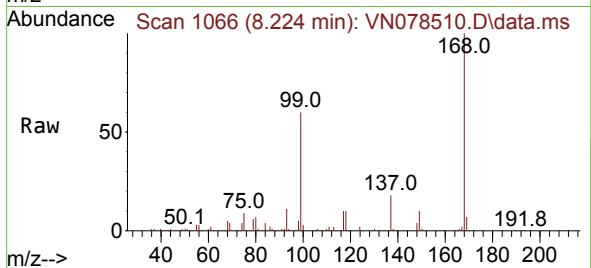




#31
Cyclohexane
Concen: 1.208 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

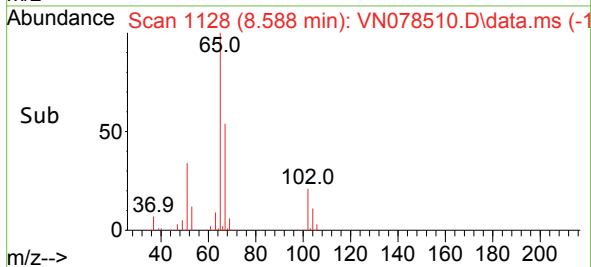
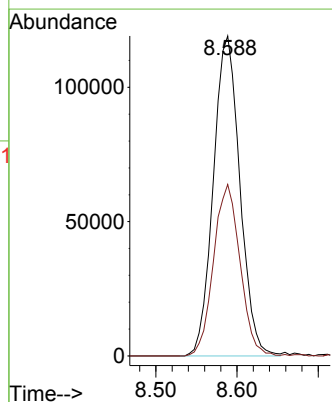
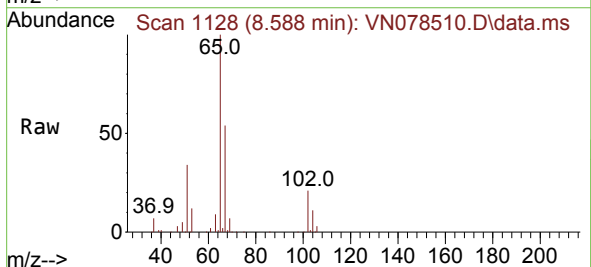
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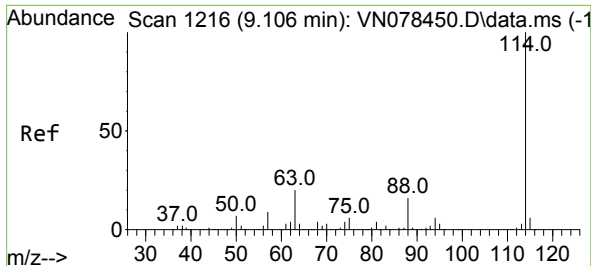
Tgt Ion: 56 Resp: 8980
Ion Ratio Lower Upper
56 100
69 160.1 26.8 40.2#
84 157.0 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 49.193 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion: 65 Resp: 270660
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078510.D

Acq: 14 Jul 2023 10:10

Instrument :

MSVOA_N

ClientSampleId :

VN0714WBL01

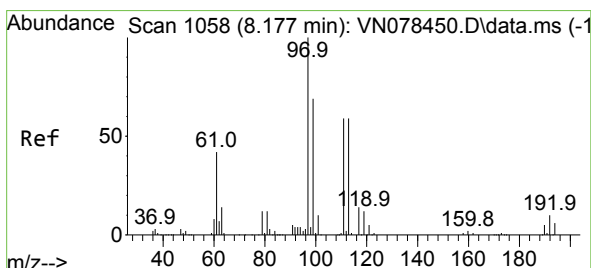
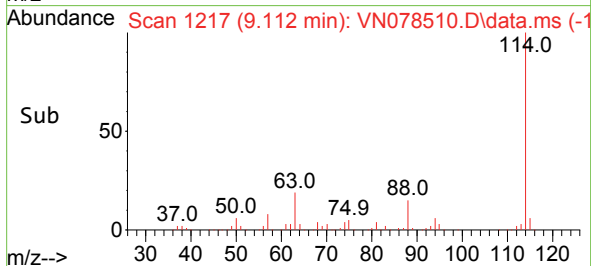
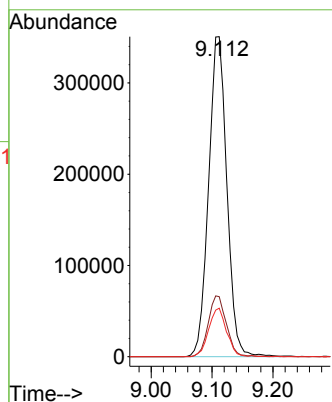
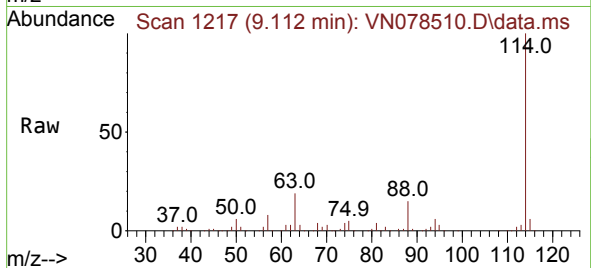
Tgt Ion:114 Resp: 730500

Ion Ratio Lower Upper

114 100

63 18.7 0.0 36.4

88 15.2 0.0 30.6



#35

Dibromofluoromethane

Concen: 56.674 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN078510.D

Acq: 14 Jul 2023 10:10

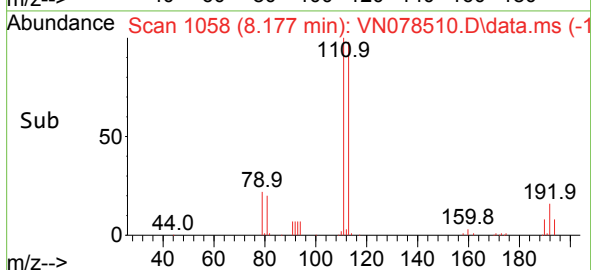
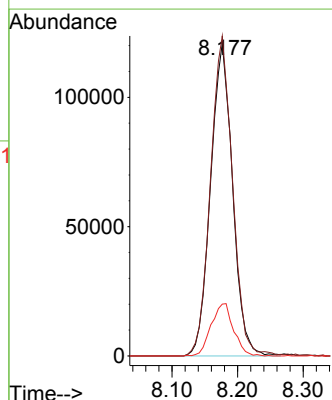
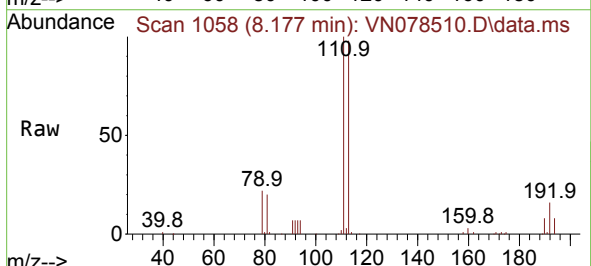
Tgt Ion:113 Resp: 281037

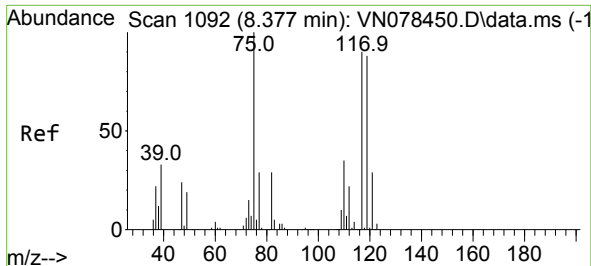
Ion Ratio Lower Upper

113 100

111 102.8 82.6 123.8

192 17.1 12.7 19.1

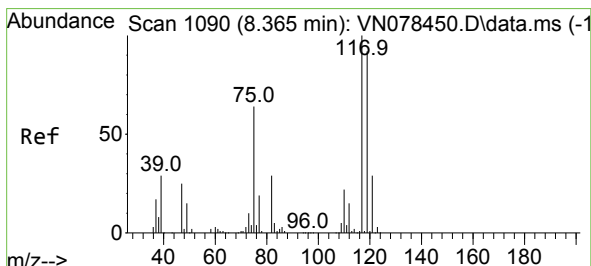
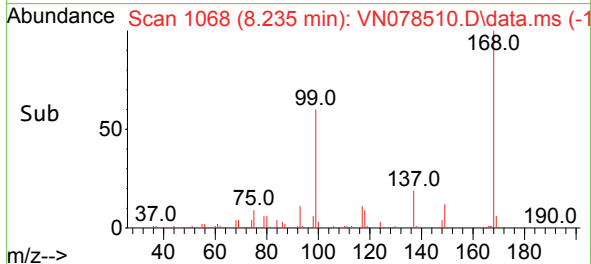
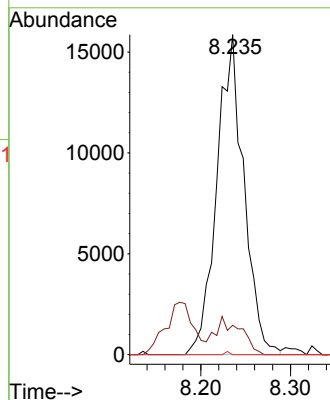
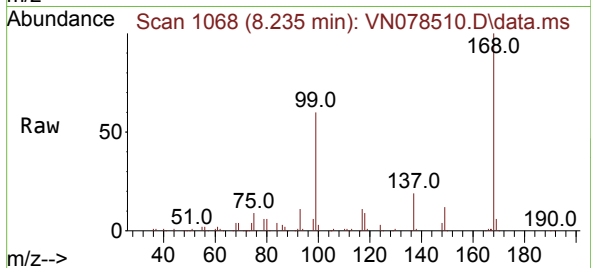




#36
1,1-Dichloropropene
Concen: 4.630 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.142 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

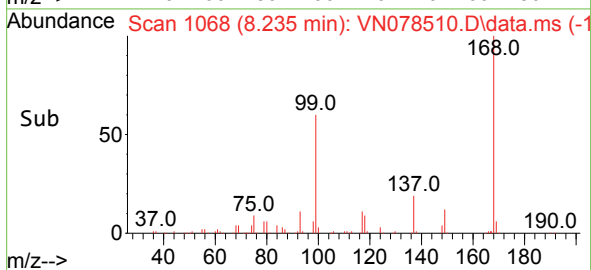
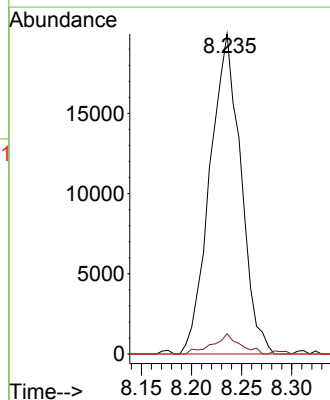
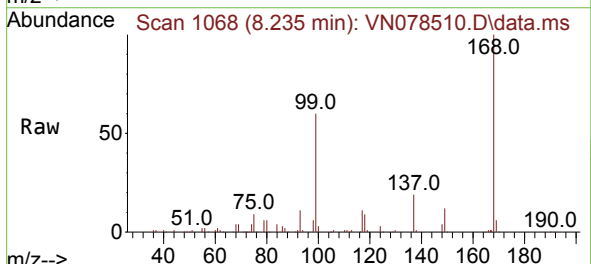
Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

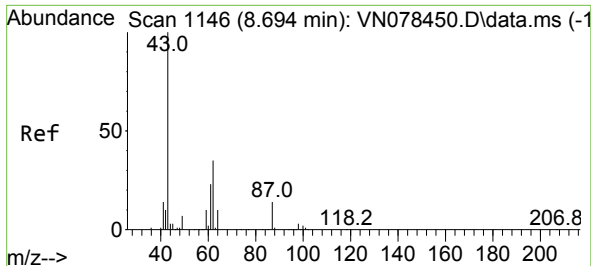
Tgt Ion: 75 Resp: 33150
Ion Ratio Lower Upper
75 100
110 11.1 19.1 57.3#
77 0.2 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 5.507 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.130 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion: 117 Resp: 42855
Ion Ratio Lower Upper
117 100
119 6.3 77.3 115.9#
121 0.0 23.3 34.9#

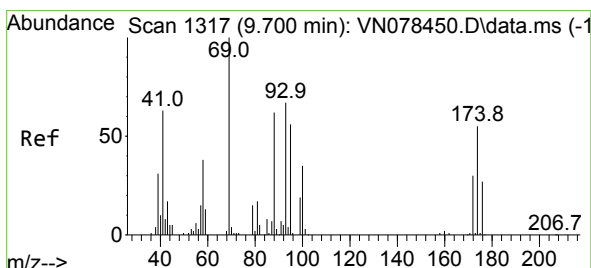
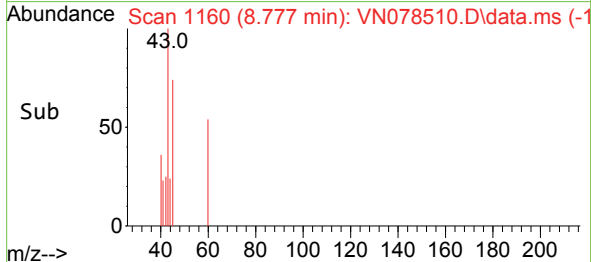
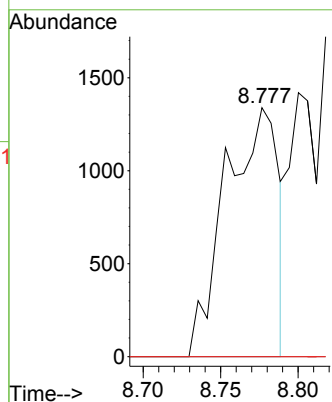
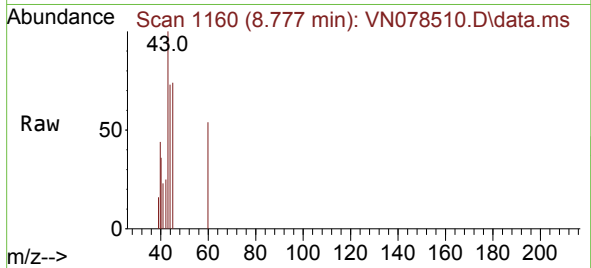




#43
Isopropyl Acetate
Concen: 0.320 ug/l
RT: 8.777 min Scan# 1160
Delta R.T. 0.083 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

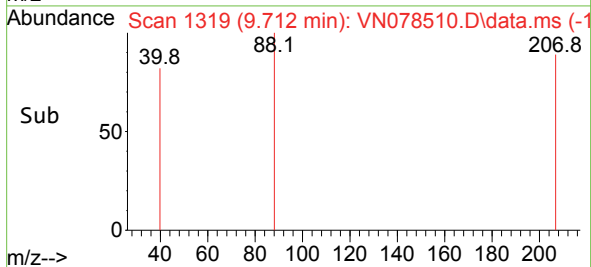
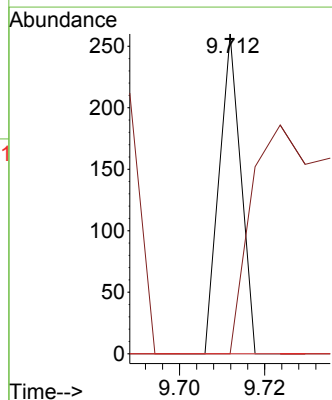
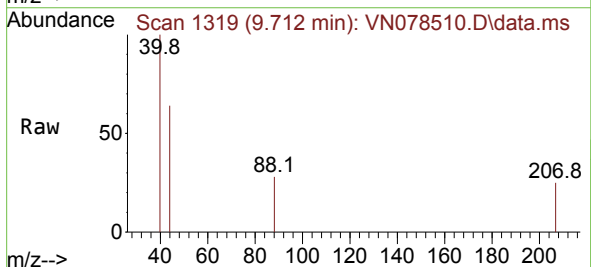
Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

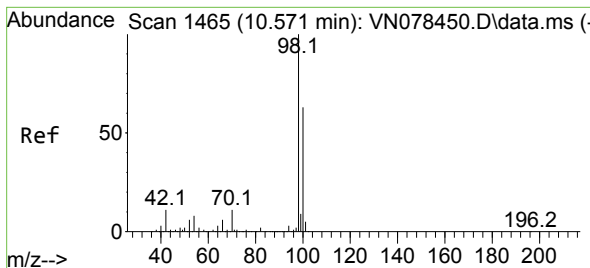
Tgt Ion: 43 Resp: 3140
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#49
1,4-Dioxane
Concen: 0.927 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.012 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion: 88 Resp: 92
Ion Ratio Lower Upper
88 100
43 250.0 17.0 25.6#
58 0.0 47.0 70.4#

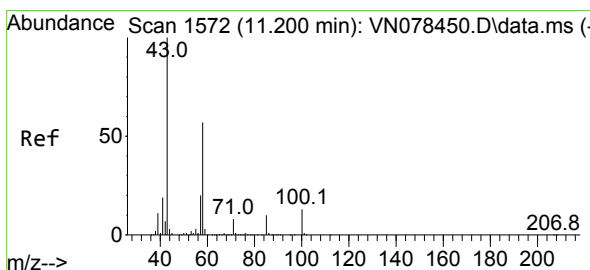
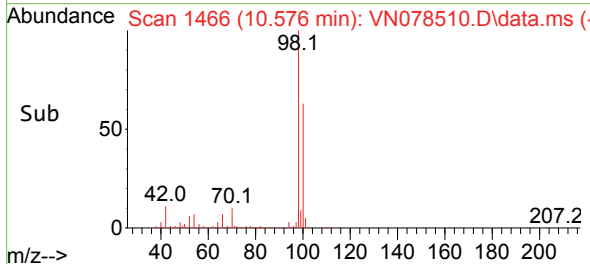
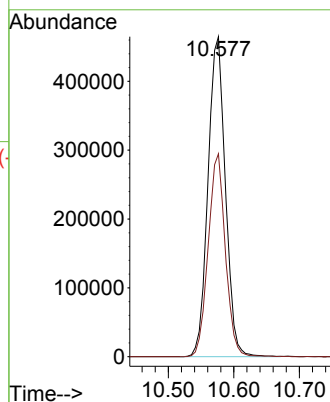
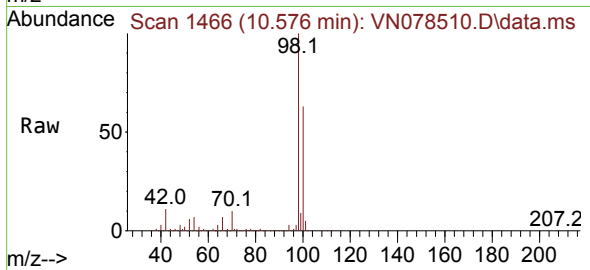




#50
Toluene-d8
Concen: 45.738 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.005 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

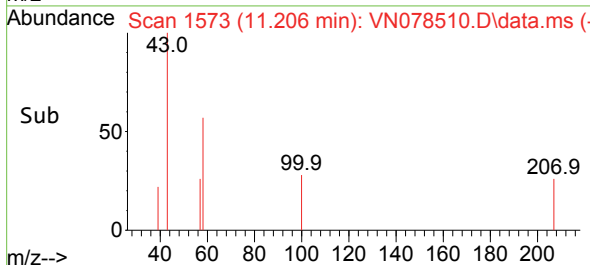
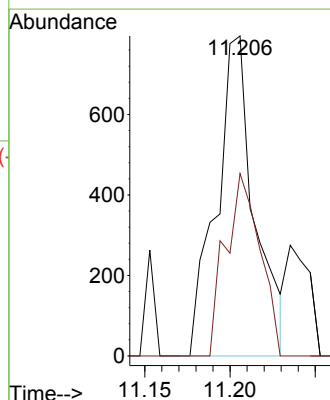
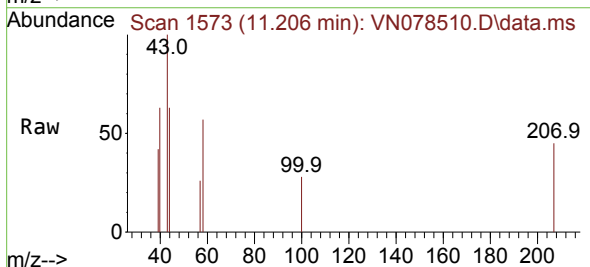
Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

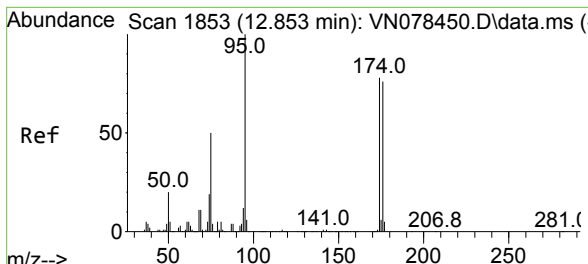
Tgt Ion: 98 Resp: 856820
Ion Ratio Lower Upper
98 100
100 62.7 52.0 78.0



#59
2-Hexanone
Concen: 0.298 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion: 43 Resp: 1239
Ion Ratio Lower Upper
43 100
58 51.5 31.7 95.1

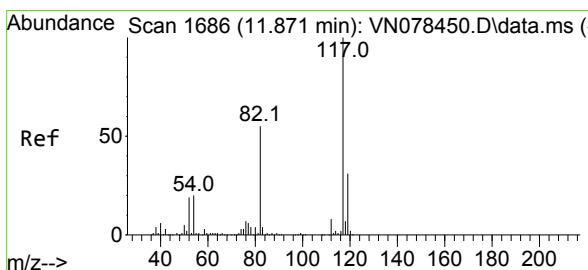
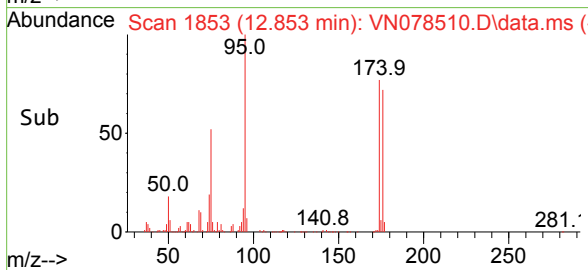
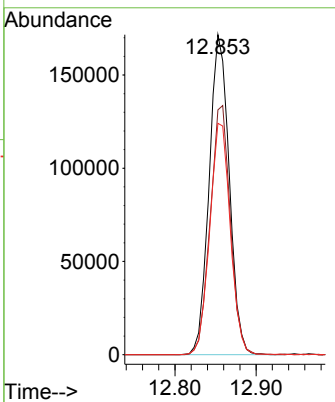
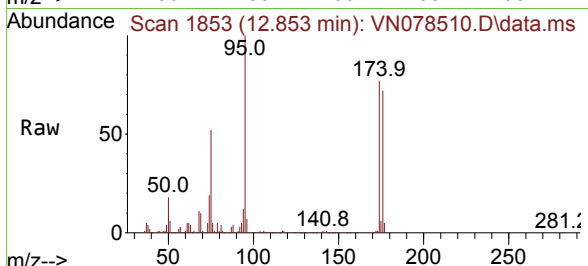




#62
 4-Bromofluorobenzene
 Concen: 51.029 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078510.D
 Acq: 14 Jul 2023 10:10

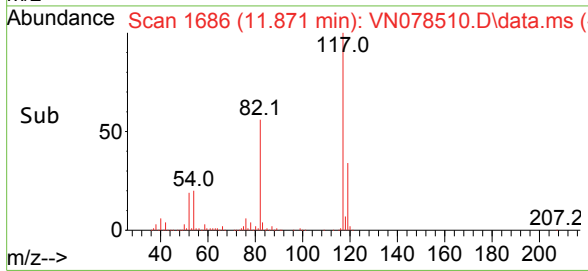
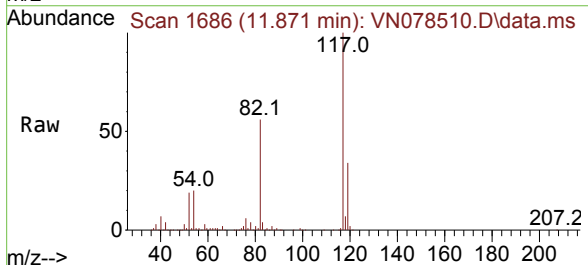
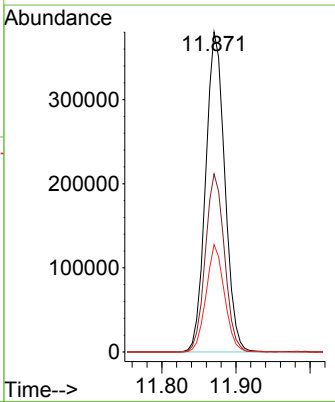
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0714WBL01

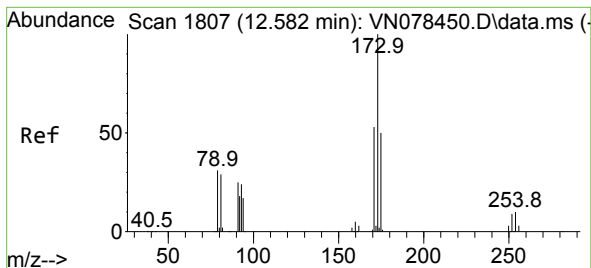
Tgt Ion:	95	Resp:	294449
Ion Ratio	Lower	Upper	
95	100		
174	78.5	0.0	143.8
176	74.3	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: VN078510.D
 Acq: 14 Jul 2023 10:10

Tgt Ion:	117	Resp:	682507
Ion Ratio	Lower	Upper	
117	100		
82	55.7	44.0	66.0
119	33.6	25.6	38.4





#71

Bromoform

Concen: 0.552 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

Lab File: VN078510.D

Acq: 14 Jul 2023 10:10

Instrument :

MSVOA_N

ClientSampleId :

VN0714WBL01

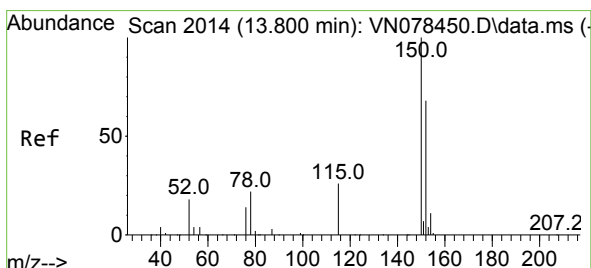
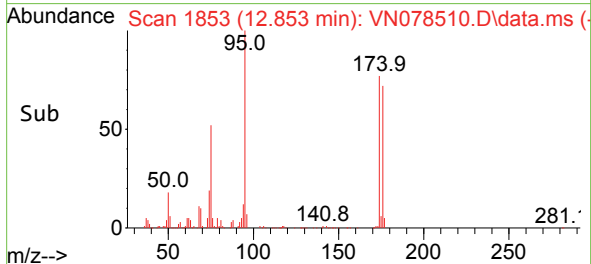
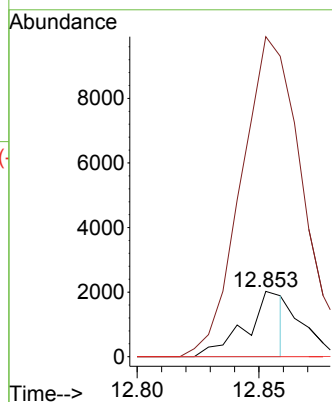
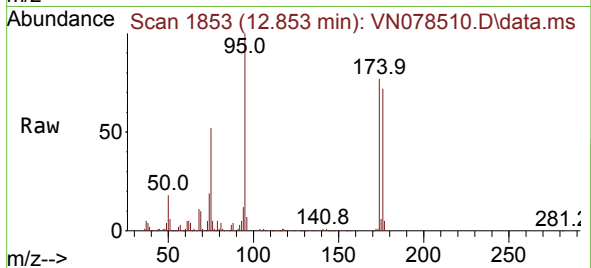
Tgt Ion:173 Resp: 2193

Ion Ratio Lower Upper

173 100

175 553.3 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078510.D

Acq: 14 Jul 2023 10:10

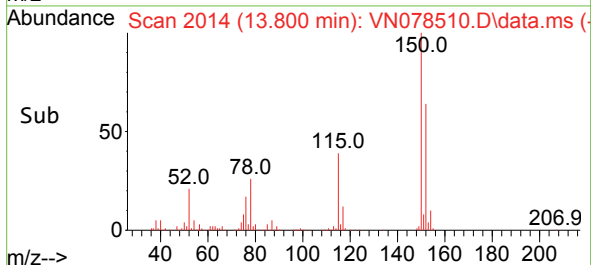
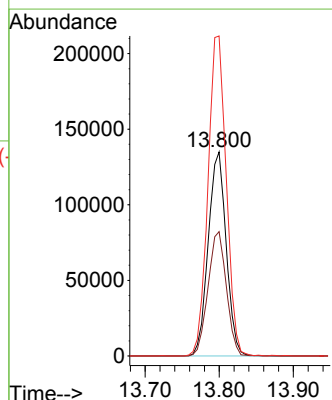
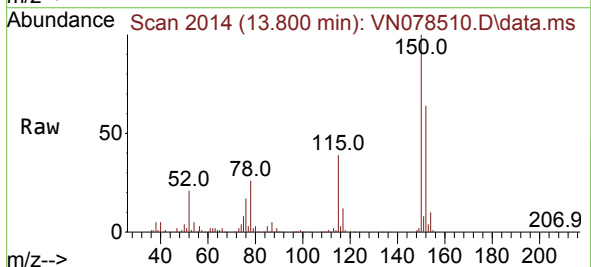
Tgt Ion:152 Resp: 227070

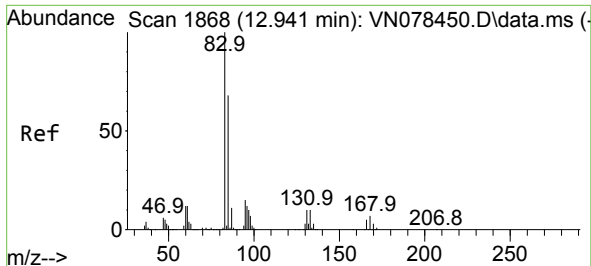
Ion Ratio Lower Upper

152 100

115 62.2 32.3 96.8

150 159.7 0.0 355.8

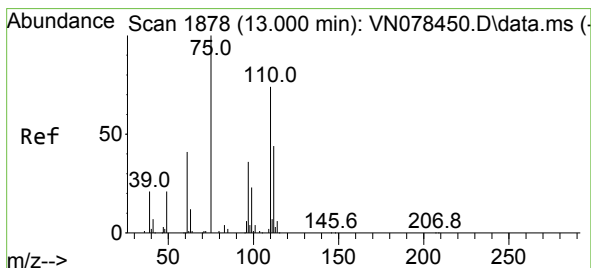
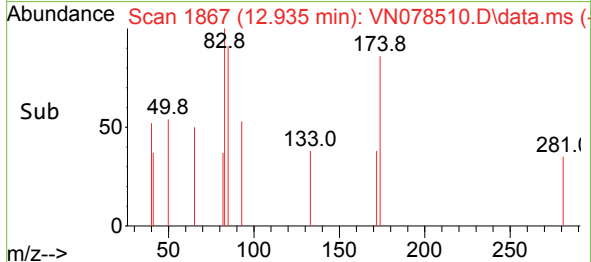
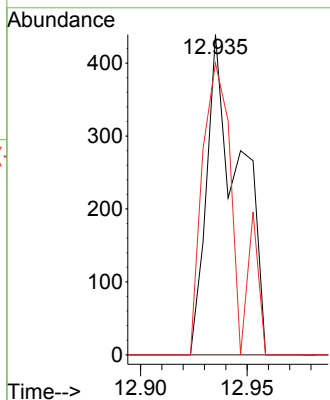
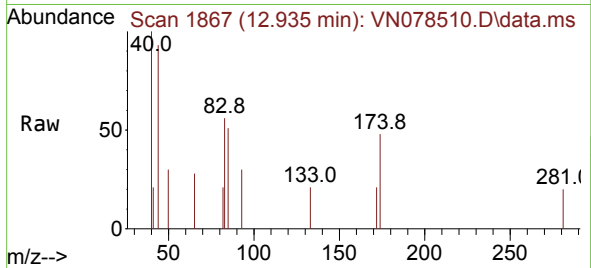




#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.935 min Scan# 1867
 Delta R.T. -0.006 min
 Lab File: VN078510.D
 Acq: 14 Jul 2023 10:10

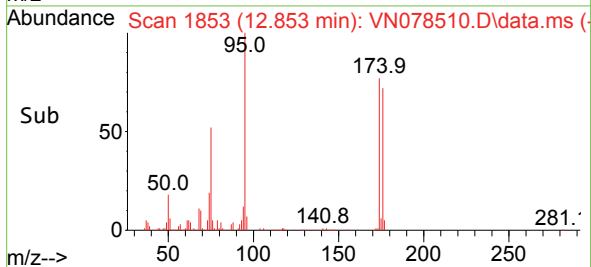
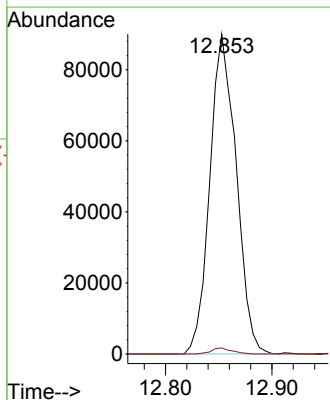
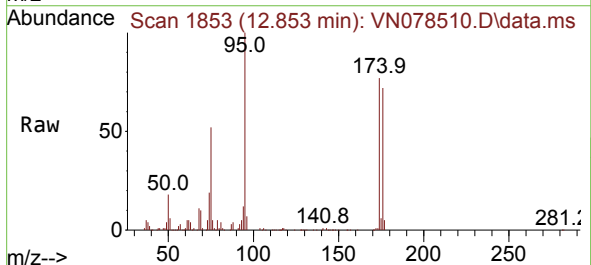
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0714WBL01

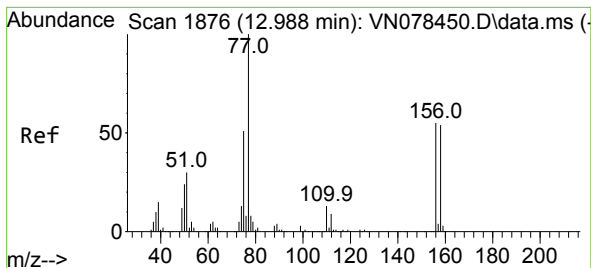
Tgt Ion: 83 Resp: 478
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.0 15.0#
 85 88.5 31.9 95.7



#76
 1,2,3-Trichloropropane
 Concen: 28.211 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.147 min
 Lab File: VN078510.D
 Acq: 14 Jul 2023 10:10

Tgt Ion: 75 Resp: 154837
 Ion Ratio Lower Upper
 75 100
 77 1.4 84.5 253.5#





#77

Bromobenzene

Concen: Below Cal

RT: 12.988 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN078510.D

Acq: 14 Jul 2023 10:10

Instrument :

MSVOA_N

ClientSampleId :

VN0714WBL01

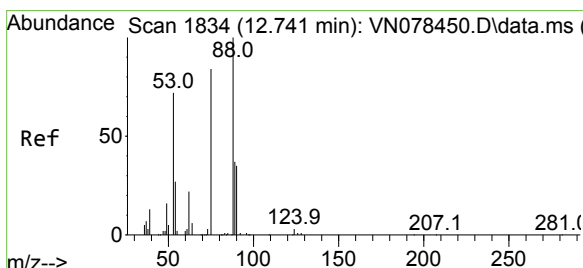
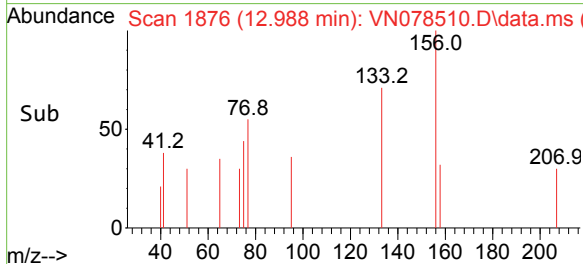
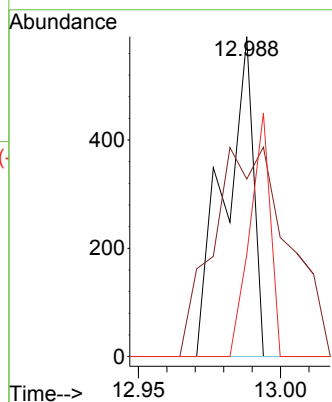
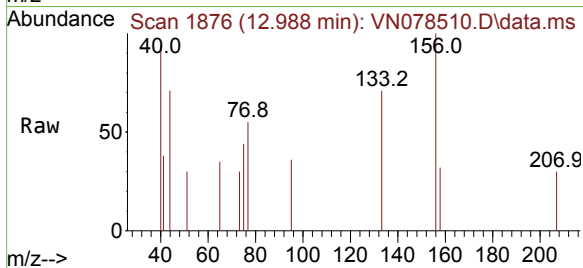
Tgt Ion:156 Resp: 419

Ion Ratio Lower Upper

156 100

77 169.5 107.7 323.3

158 53.7 48.4 145.3



#81

trans-1,4-Dichloro-2-butene

Concen: 74.133 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078510.D

Acq: 14 Jul 2023 10:10

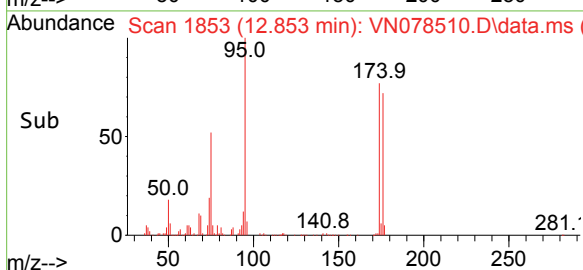
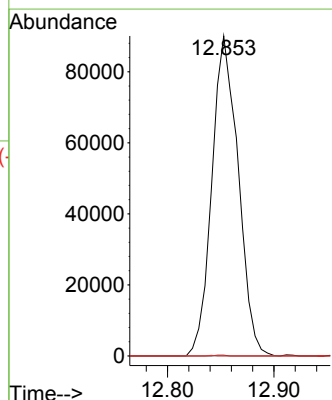
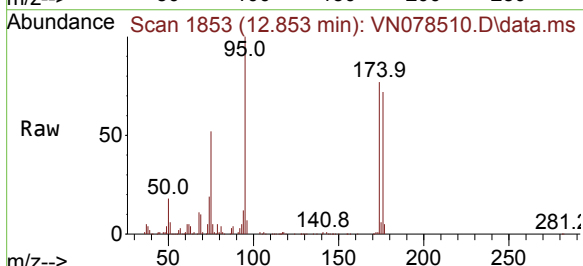
Tgt Ion: 75 Resp: 154837

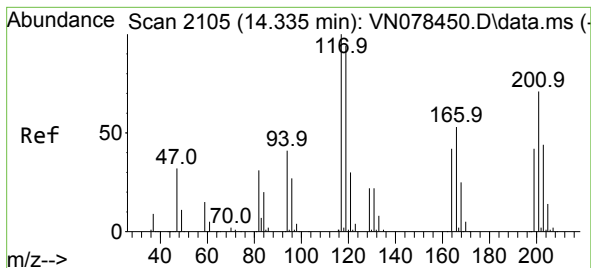
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#





#90

Hexachloroethane

Concen: Below Cal

RT: 14.341 min Scan# 2106

Delta R.T. 0.006 min

Lab File: VN078510.D

Acq: 14 Jul 2023 10:10

Instrument :

MSVOA_N

ClientSampleId :

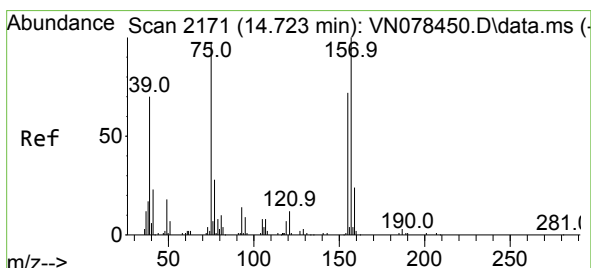
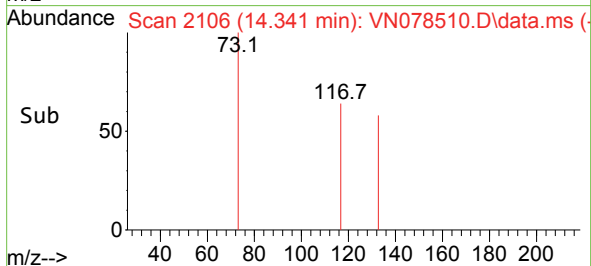
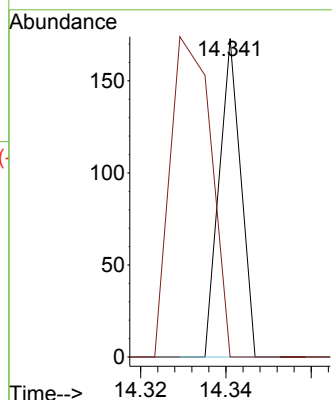
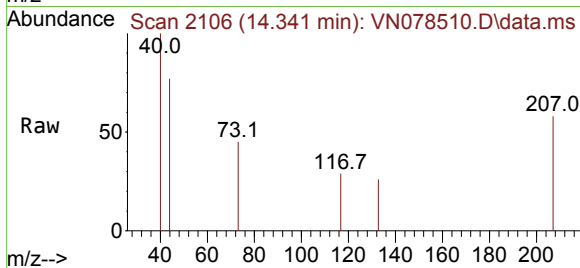
VN0714WBL01

Tgt Ion:117 Resp: 61

Ion Ratio Lower Upper

117 100

201 188.5 29.3 88.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.753 min Scan# 2176

Delta R.T. 0.030 min

Lab File: VN078510.D

Acq: 14 Jul 2023 10:10

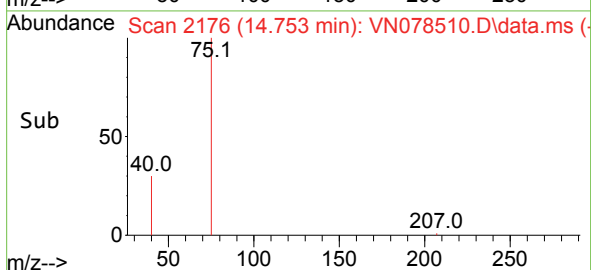
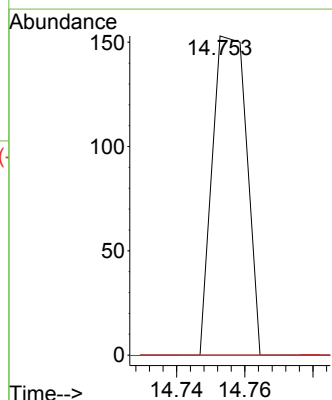
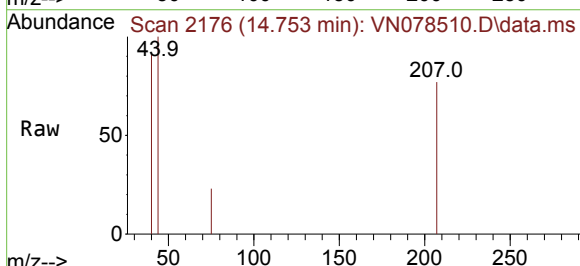
Tgt Ion: 75 Resp: 107

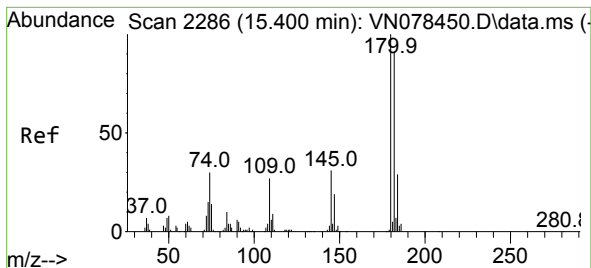
Ion Ratio Lower Upper

75 100

155 0.0 39.1 117.2#

157 0.0 50.3 150.9#





#93

1,2,4-Trichlorobenzene

Concen: 0.276 ug/l

RT: 15.411 min Scan# 21

Delta R.T. 0.011 min

Lab File: VN078510.D

Acq: 14 Jul 2023 10:10

Instrument :

MSVOA_N

ClientSampleId :

VN0714WBL01

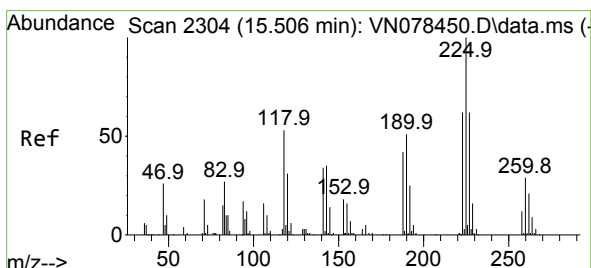
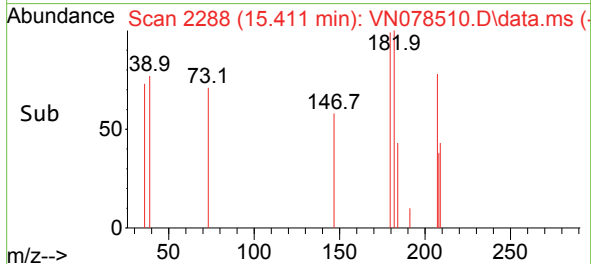
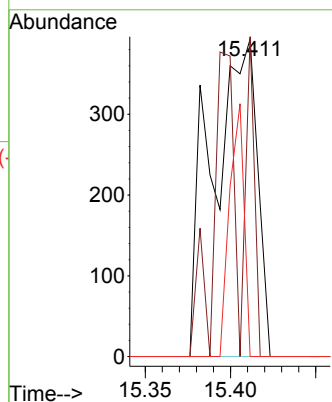
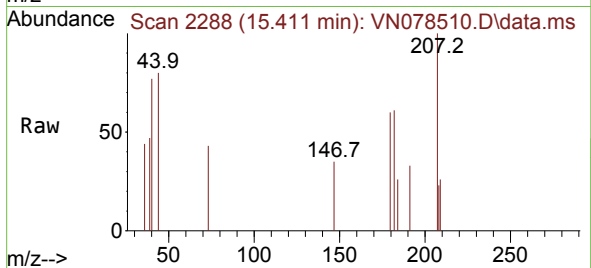
Tgt Ion:180 Resp: 718

Ion Ratio Lower Upper

180 100

182 64.1 46.1 138.2

145 25.8 16.6 49.8



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.500 min Scan# 2303

Delta R.T. -0.006 min

Lab File: VN078510.D

Acq: 14 Jul 2023 10:10

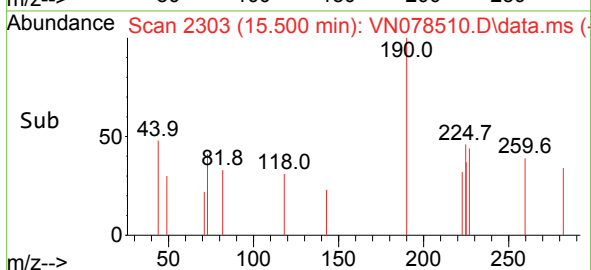
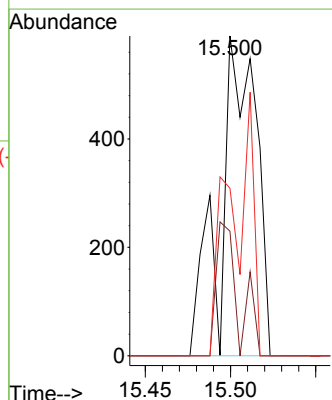
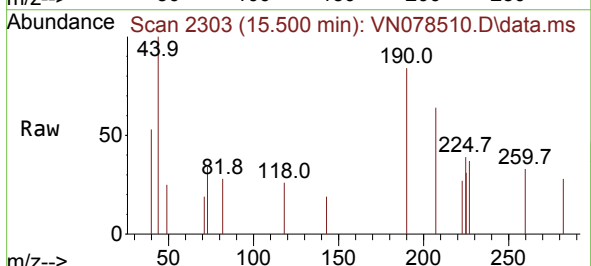
Tgt Ion:225 Resp: 863

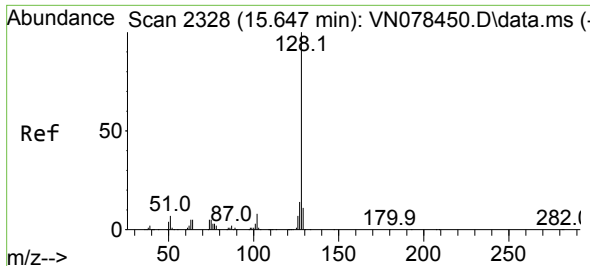
Ion Ratio Lower Upper

225 100

223 25.8 31.3 93.8#

227 52.1 31.9 95.9

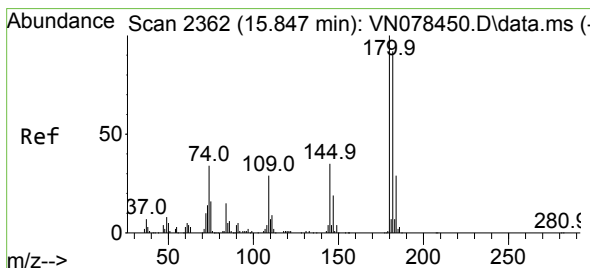
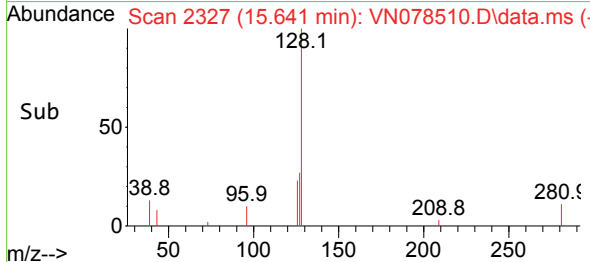
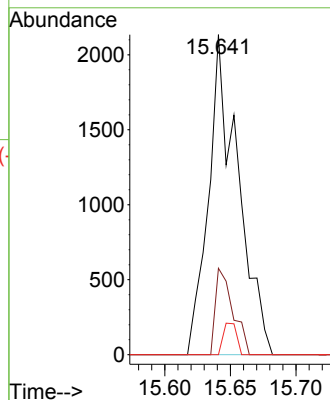
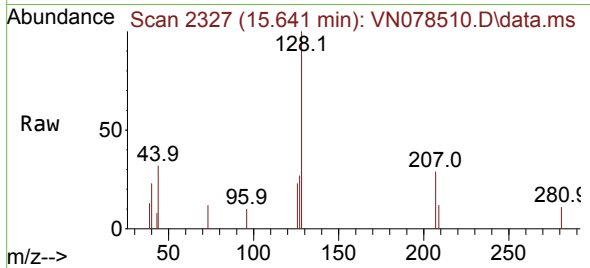




#95
Naphthalene
Concen: 0.373 ug/l
RT: 15.641 min Scan# 2328
Delta R.T. -0.006 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

Tgt Ion:128 Resp: 3320
Ion Ratio Lower Upper
128 100
127 16.1 10.0 15.0#
129 4.4 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.361 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.006 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion:180 Resp: 1079
Ion Ratio Lower Upper
180 100
182 73.2 46.2 138.6
145 20.8 17.5 52.6

