

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071323\
 Data File : VN078490.D
 Acq On : 13 Jul 2023 11:31
 Operator : JC\MD
 Sample : VN0713WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBL01

Quant Time: Jul 14 01:29:54 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)

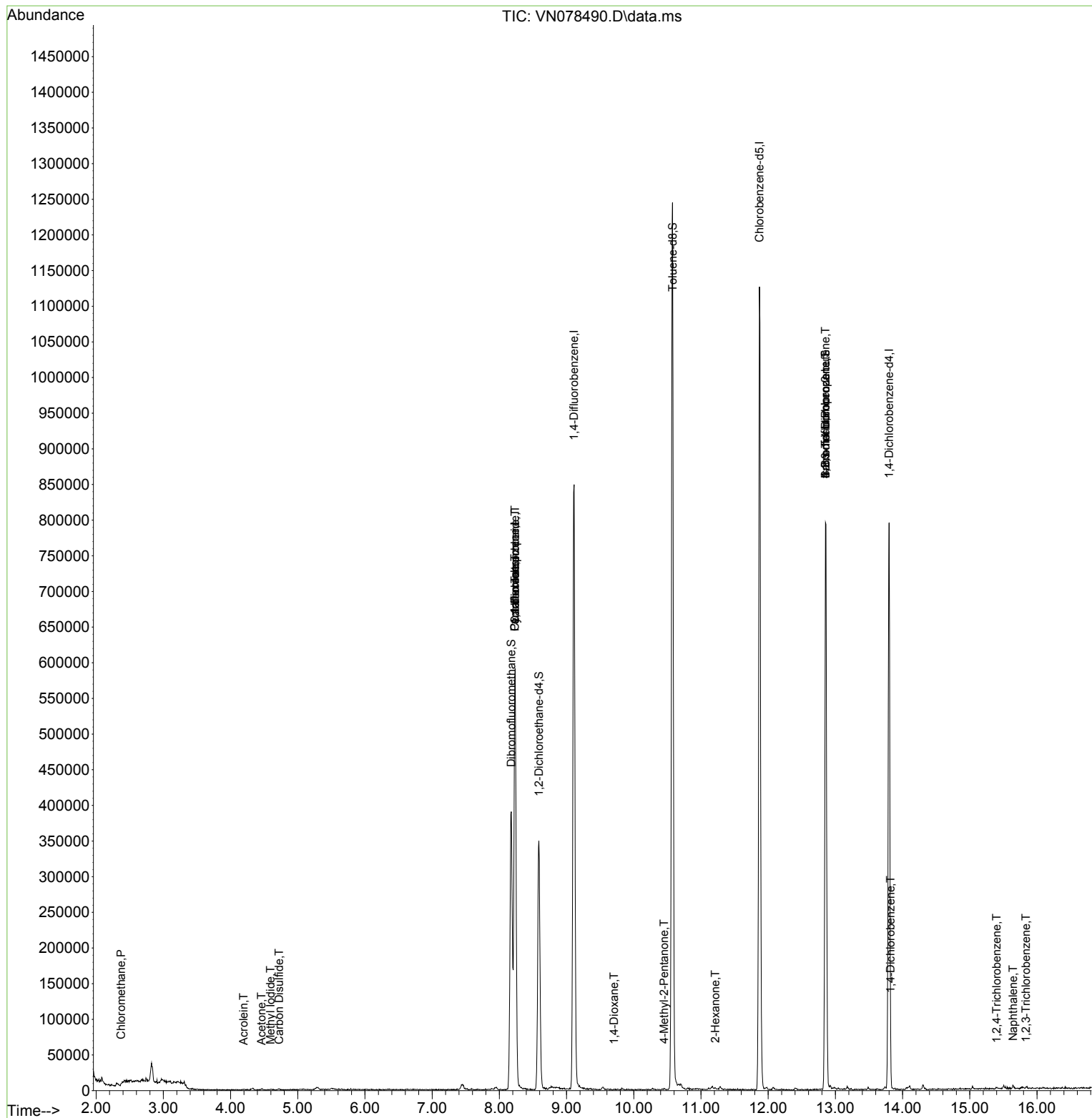
Internal Standards						
1) Pentafluorobenzene	8.229	168	435032	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	776060	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	688942	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	220796	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	289429	49.627	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.260%
35) Dibromofluoromethane	8.177	113	284387	53.982	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	107.960%
50) Toluene-d8	10.576	98	911305	45.791	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	91.580%
62) 4-Bromofluorobenzene	12.853	95	284998	46.492	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	92.980%
Target Compounds						Qvalue
3) Chloromethane	2.371	50	2020	0.348	ug/l #	87
5) Bromomethane	2.977	94	2986	Below Cal	#	65
6) Chloroethane	3.118	64	1097	Below Cal		89
10) Methyl Iodide	4.594	142	1389	0.213	ug/l #	68
13) Acrolein	4.194	56	212	0.240	ug/l #	12
16) Acetone	4.459	43	1362	0.750	ug/l #	40
17) Carbon Disulfide	4.724	76	2878	0.217	ug/l #	86
20) Methylene Chloride	5.300	84	2148	Below Cal	#	85
31) Cyclohexane	8.229	56	10272	1.303	ug/l #	55
36) 1,1-Dichloropropene	8.235	75	34771	4.571	ug/l #	49
38) Carbon Tetrachloride	8.235	117	45307	5.480	ug/l #	16
49) 1,4-Dioxane	9.706	88	183	1.735	ug/l #	30
51) 4-Methyl-2-Pentanone	10.453	43	1601	0.258	ug/l #	31
59) 2-Hexanone	11.212	43	1596	0.362	ug/l	77
71) Bromoform	12.853	173	2019	0.503	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.923	83	328	Below Cal	#	44
76) 1,2,3-Trichloropropane	12.853	75	151492	28.386	ug/l #	1
77) Bromobenzene	13.000	156	430	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	151492	74.592	ug/l #	15
88) 1,4-Dichlorobenzene	13.823	146	1920	0.239	ug/l #	1
90) Hexachloroethane	14.094	117	128	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.688	75	54	Below Cal	#	4
93) 1,2,4-Trichlorobenzene	15.400	180	882	0.349	ug/l #	74
94) Hexachlorobutadiene	15.511	225	1198	Below Cal	#	63
95) Naphthalene	15.647	128	3777	0.437	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.835	180	785	0.270	ug/l	77

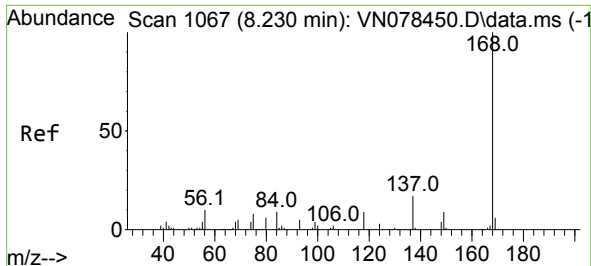
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VN0713WBL01
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Response via : Initial Calibration

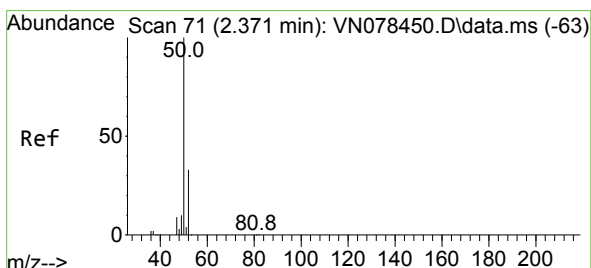
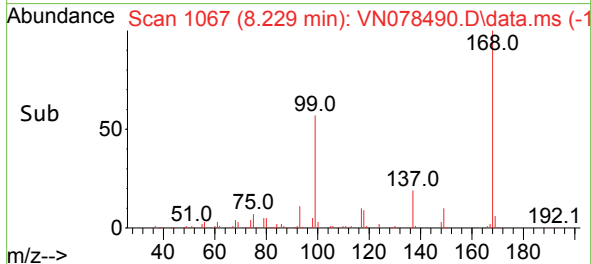
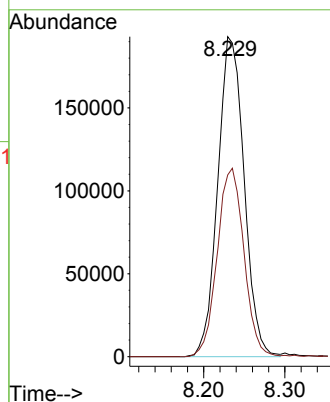
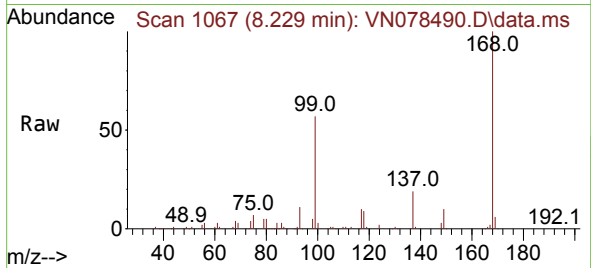




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.001 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

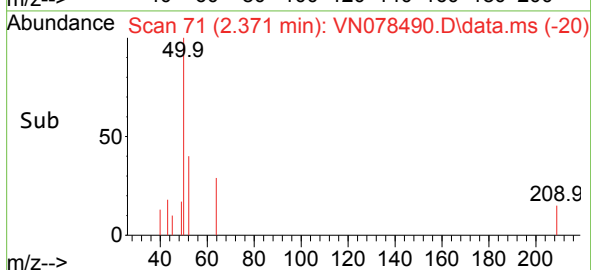
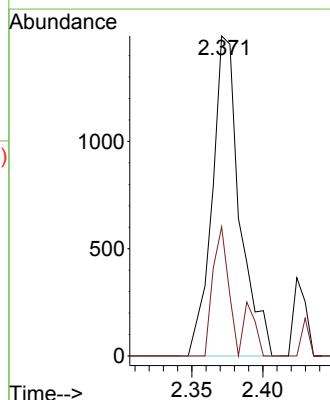
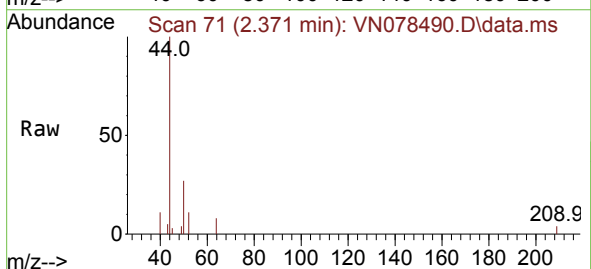
Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01

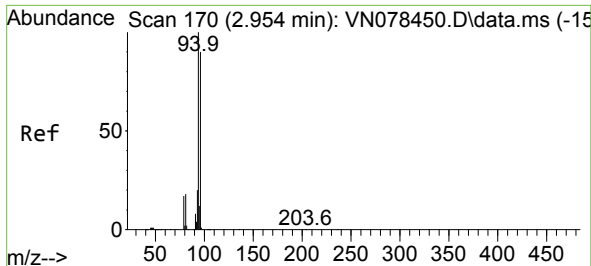
Tgt Ion:168 Resp: 435032
Ion Ratio Lower Upper
168 100
99 56.8 53.0 79.6



#3
Chloromethane
Concen: 0.348 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Tgt Ion: 50 Resp: 2020
Ion Ratio Lower Upper
50 100
52 40.3 26.5 39.7#

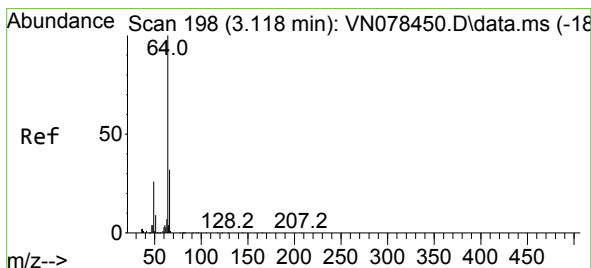
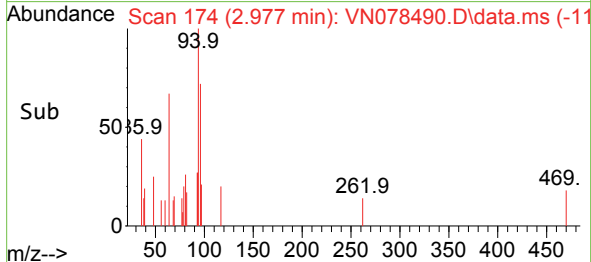
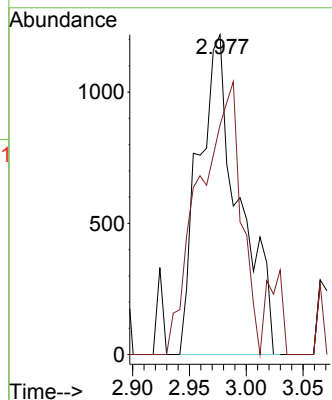
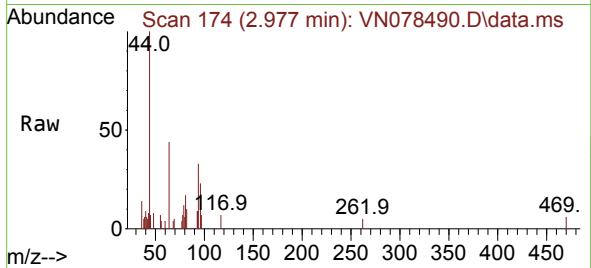




#5
Bromomethane
Concen: Below Cal
RT: 2.977 min Scan# 174
Delta R.T. 0.023 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

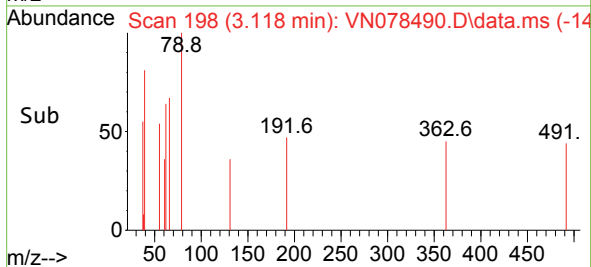
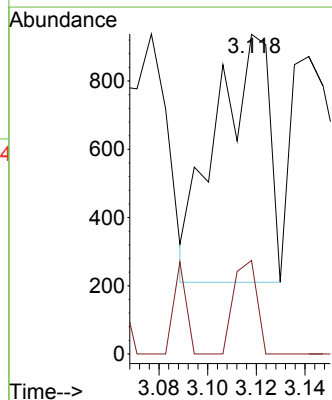
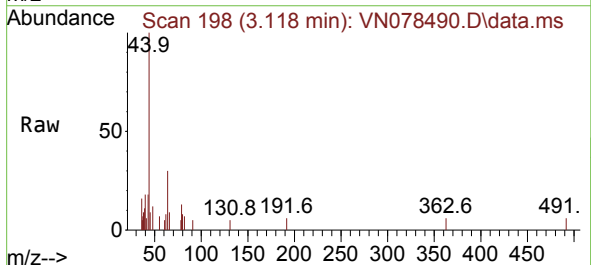
Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01

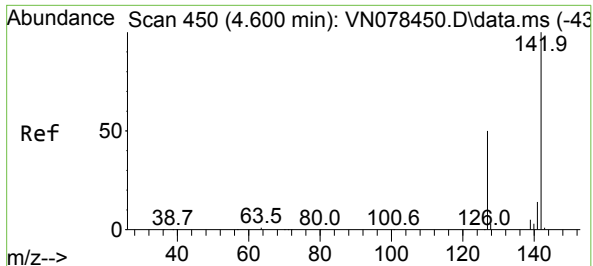
Tgt Ion: 94 Resp: 2986
Ion Ratio Lower Upper
94 100
96 57.8 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

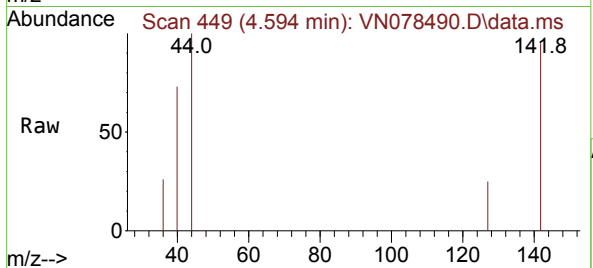
Tgt Ion: 64 Resp: 1097
Ion Ratio Lower Upper
64 100
66 37.7 25.4 38.2



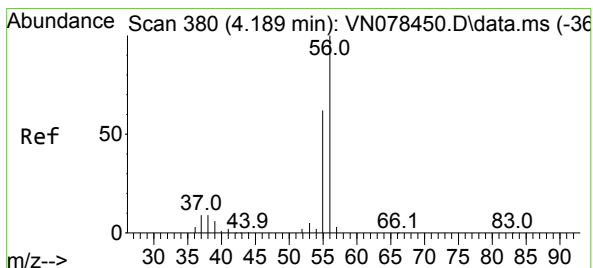
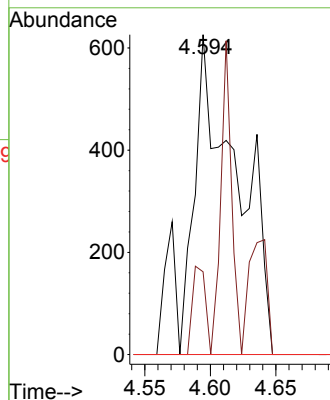
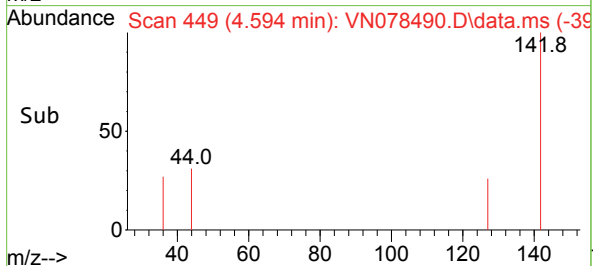


#10
Methyl Iodide
Concen: 0.213 ug/l
RT: 4.594 min Scan# 449
Delta R.T. -0.006 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

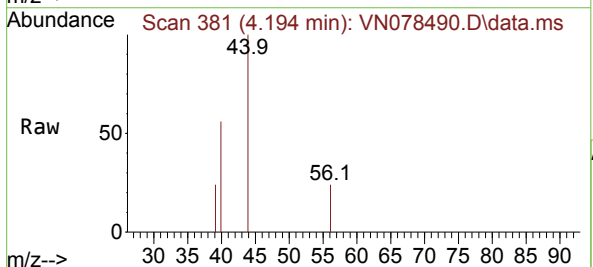
Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01



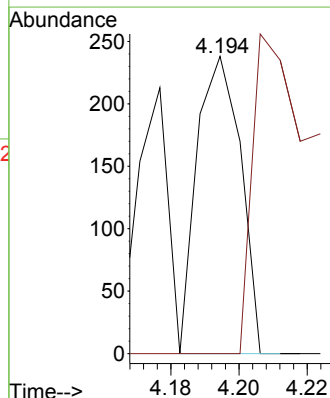
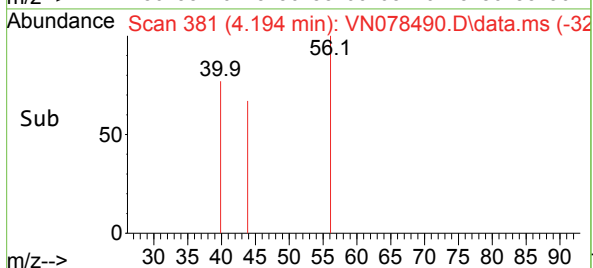
Tgt Ion:142 Resp: 1389
Ion Ratio Lower Upper
142 100
127 25.9 37.6 56.4#
141 0.0 11.4 17.0#

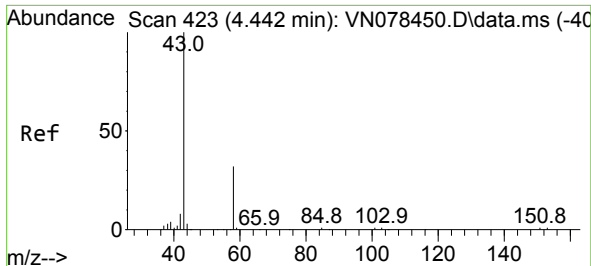


#13
Acrolein
Concen: 0.240 ug/l
RT: 4.194 min Scan# 381
Delta R.T. 0.005 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31



Tgt Ion: 56 Resp: 212
Ion Ratio Lower Upper
56 100
55 139.2 54.5 81.7#

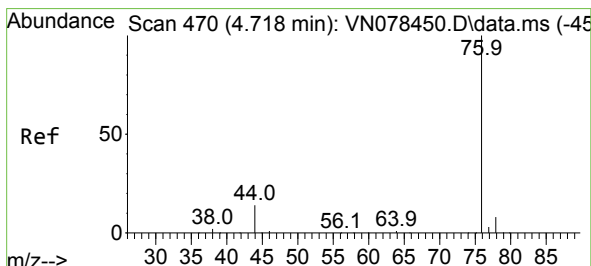
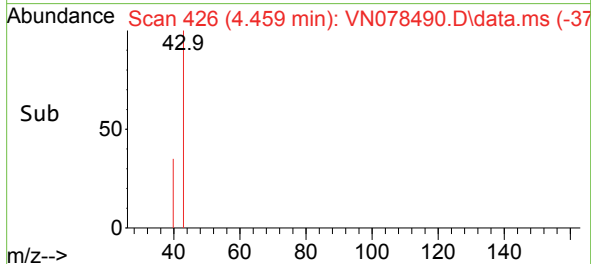
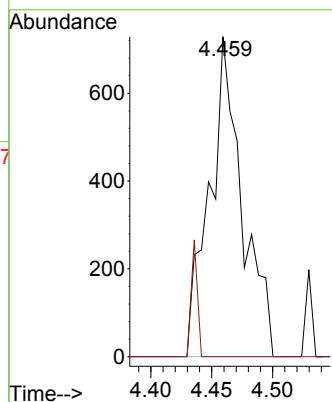
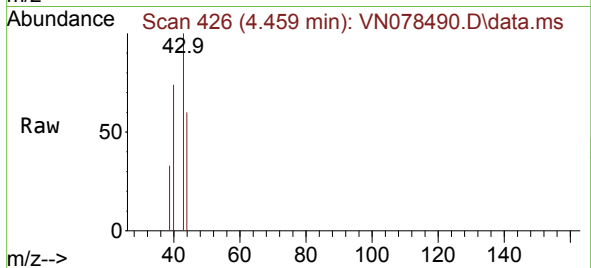




#16
Acetone
Concen: 0.750 ug/l
RT: 4.459 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

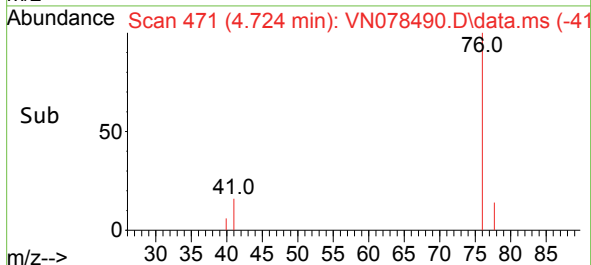
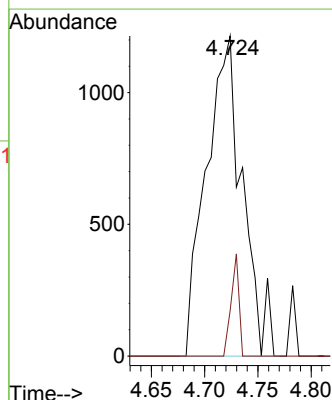
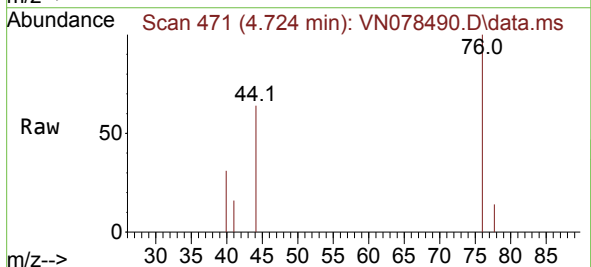
Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01

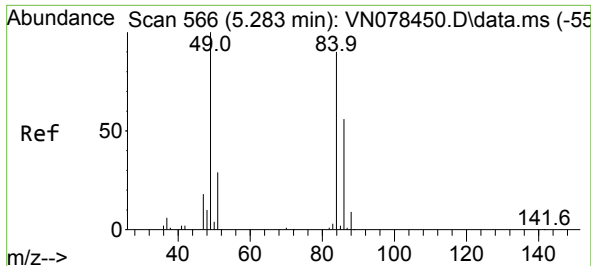
Tgt Ion: 43 Resp: 1362
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.217 ug/l
RT: 4.724 min Scan# 471
Delta R.T. 0.006 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Tgt Ion: 76 Resp: 2878
Ion Ratio Lower Upper
76 100
78 14.2 7.4 11.0#



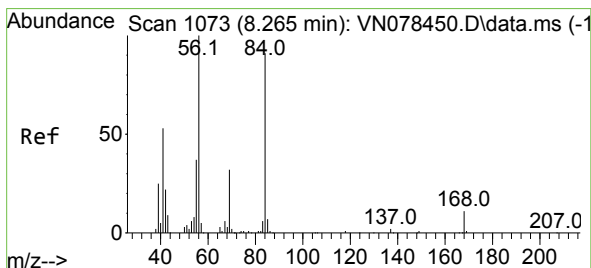
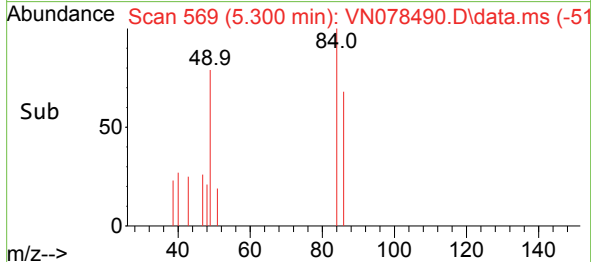
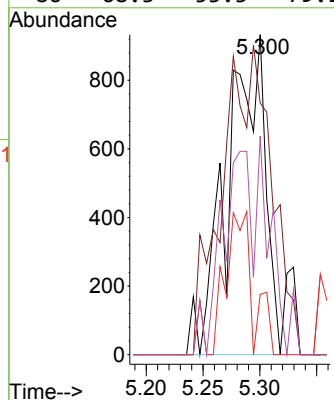
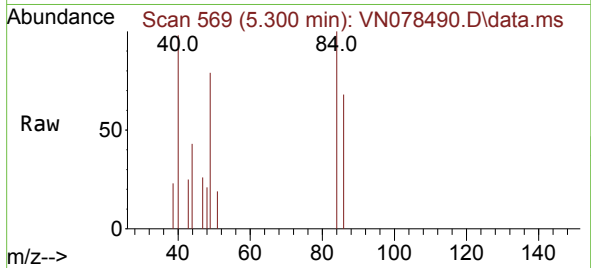


#20
Methylene Chloride
Concen: Below Cal
RT: 5.300 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01

Tgt Ion: 84 Resp: 2148

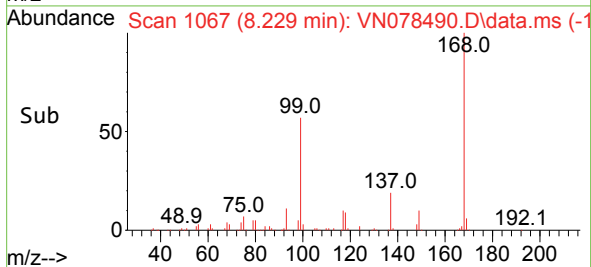
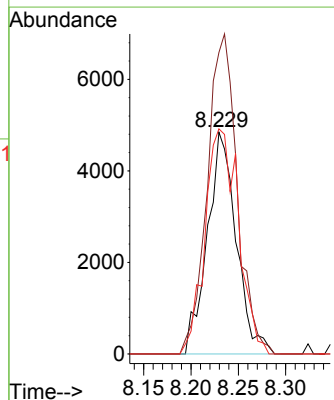
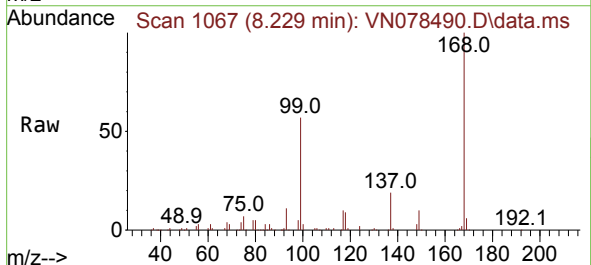
Ion	Ratio	Lower	Upper
84	100		
49	78.7	79.7	119.5#
51	18.9	25.2	37.8#
86	68.3	53.3	79.9

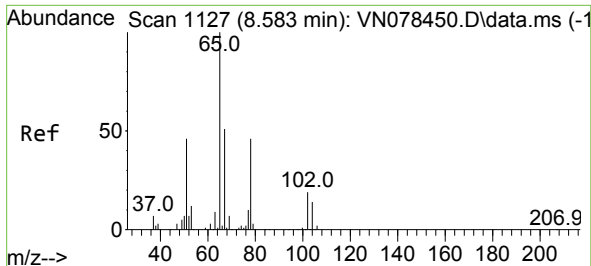


#31
Cyclohexane
Concen: 1.303 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.036 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Tgt Ion: 56 Resp: 10272

Ion	Ratio	Lower	Upper
56	100		
69	136.0	26.8	40.2#
84	101.5	81.8	122.6





#33

1,2-Dichloroethane-d4

Concen: 49.627 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078490.D

Acq: 13 Jul 2023 11:31

Instrument :

MSVOA_N

ClientSampleId :

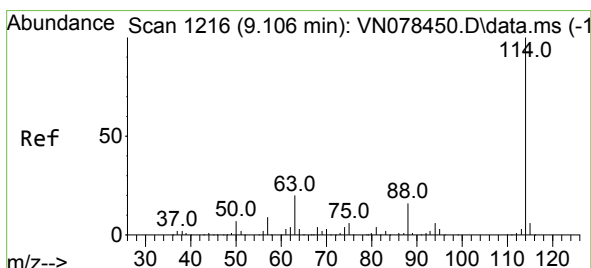
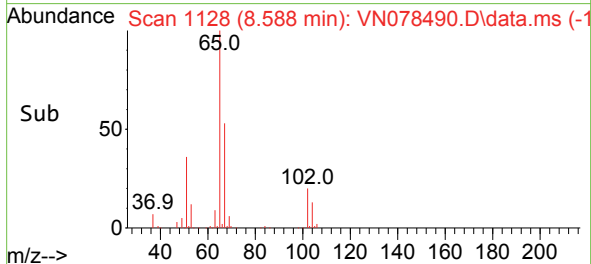
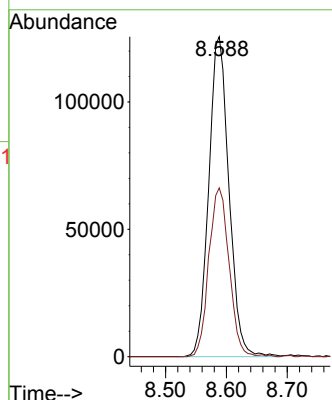
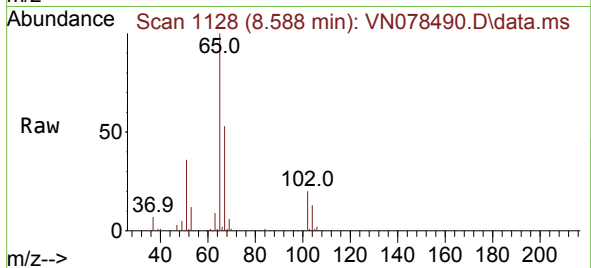
VN0713WBL01

Tgt Ion: 65 Resp: 289429

Ion Ratio Lower Upper

65 100

67 52.8 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078490.D

Acq: 13 Jul 2023 11:31

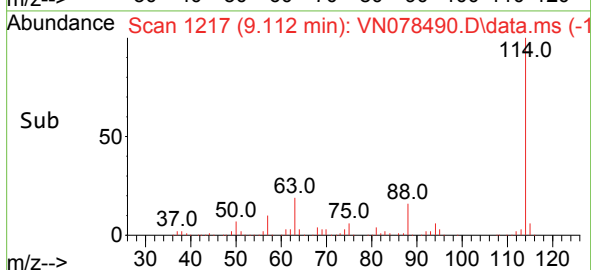
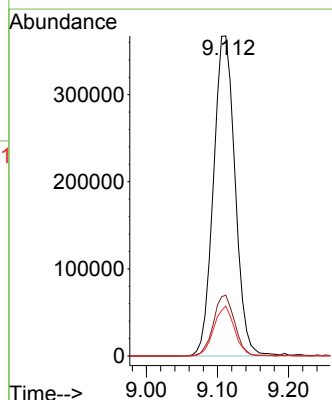
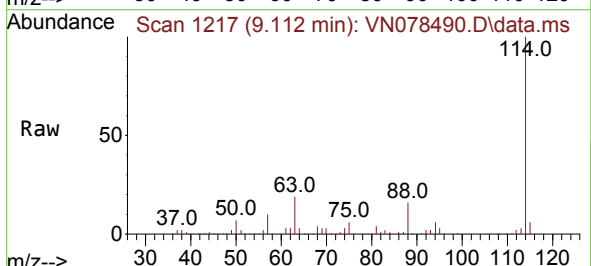
Tgt Ion: 114 Resp: 776060

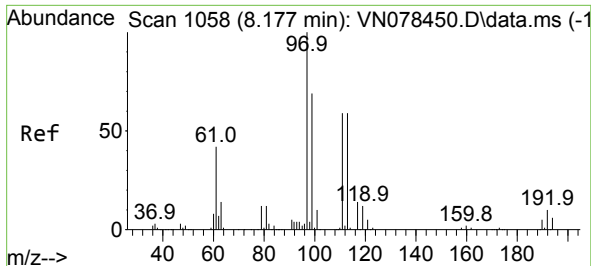
Ion Ratio Lower Upper

114 100

63 19.0 0.0 36.4

88 15.6 0.0 30.6

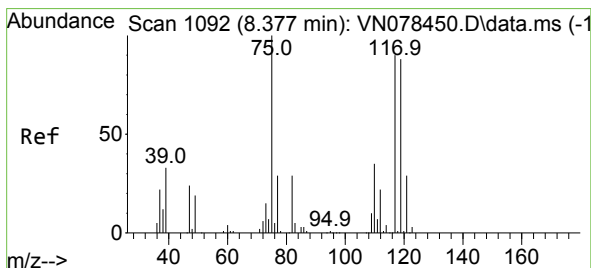
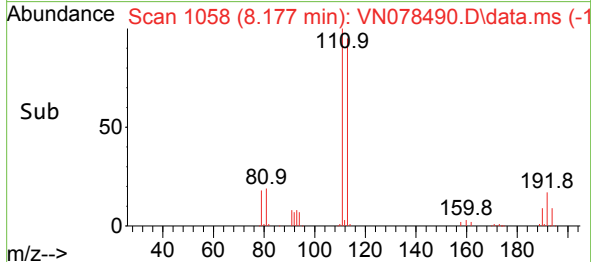
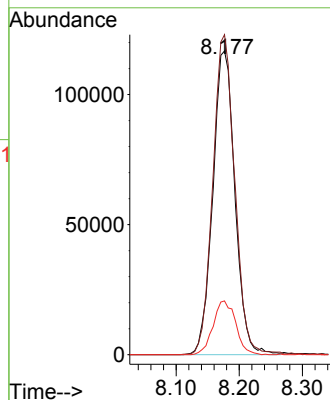
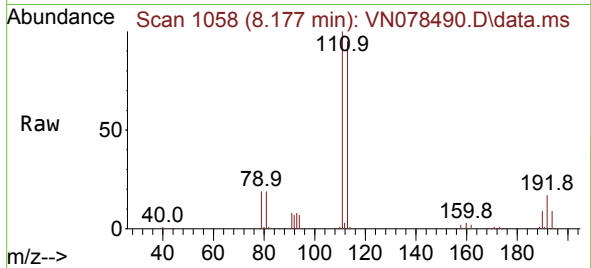




#35
Dibromofluoromethane
Concen: 53.982 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

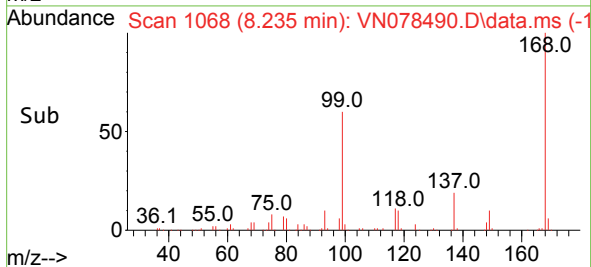
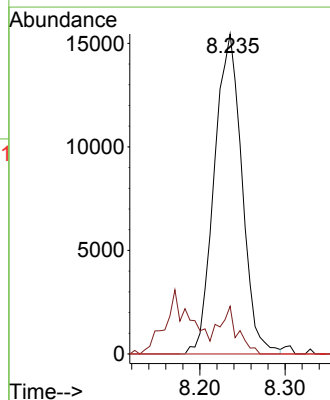
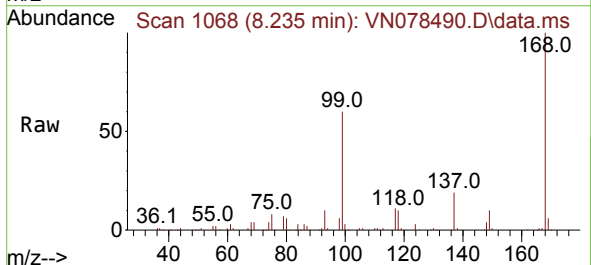
Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01

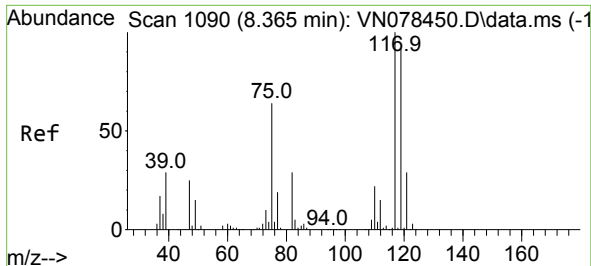
Tgt Ion:113 Resp: 284387
Ion Ratio Lower Upper
113 100
111 104.3 82.6 123.8
192 18.1 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.571 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.142 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

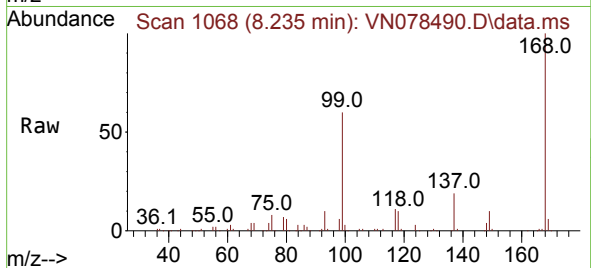
Tgt Ion: 75 Resp: 34771
Ion Ratio Lower Upper
75 100
110 10.0 19.1 57.3#
77 0.0 25.0 37.4#



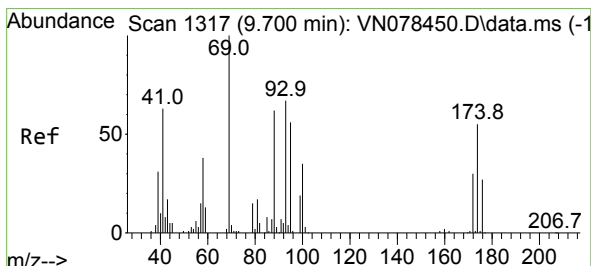
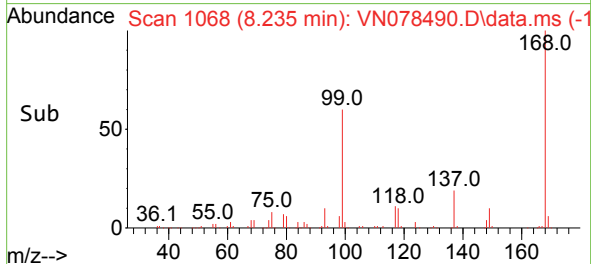
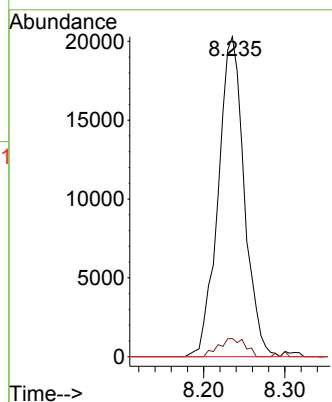


#38
Carbon Tetrachloride
Concen: 5.480 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.130 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01

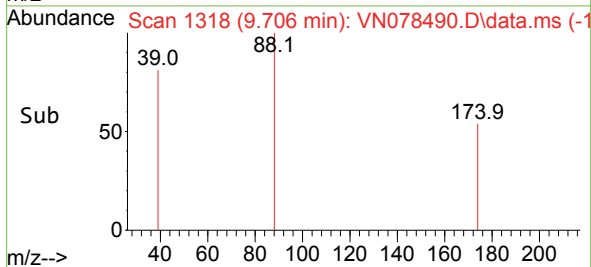
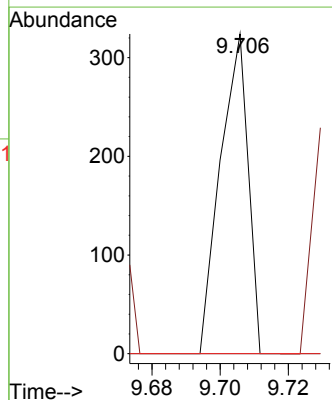
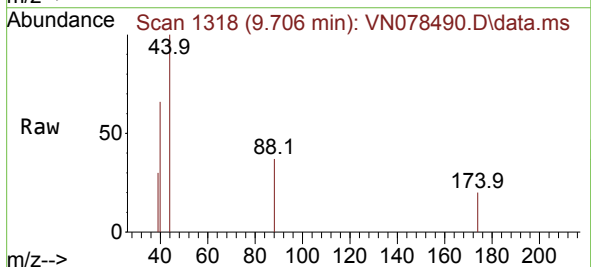


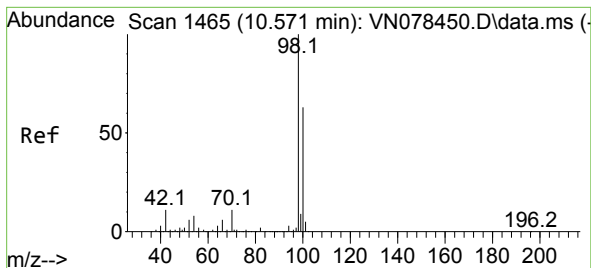
Tgt Ion:117 Resp: 45307
Ion Ratio Lower Upper
117 100
119 5.7 77.3 115.9#
121 0.0 23.3 34.9#



#49
1,4-Dioxane
Concen: 1.735 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Tgt Ion: 88 Resp: 183
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

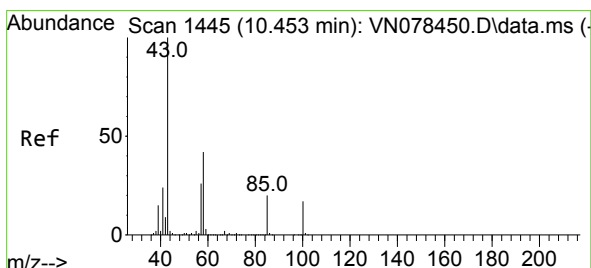
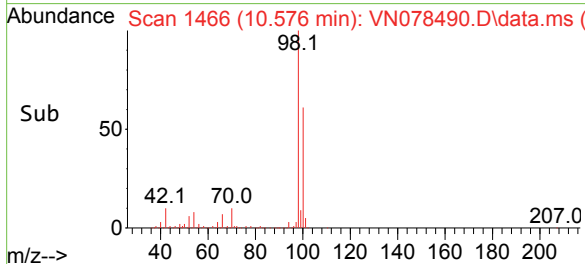
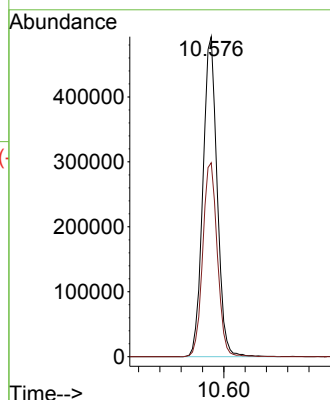
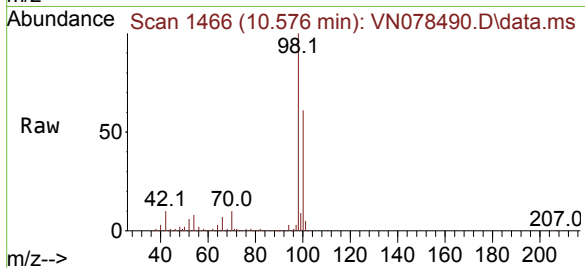




#50
Toluene-d8
Concen: 45.791 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.005 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

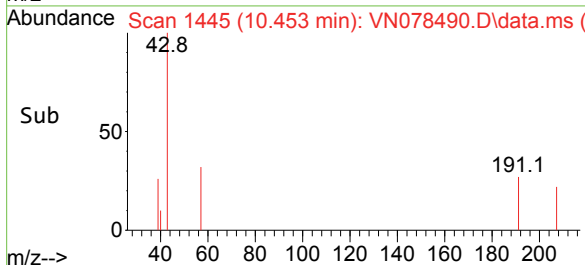
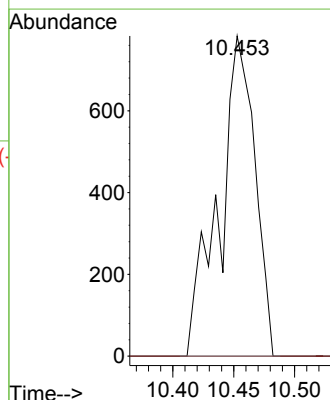
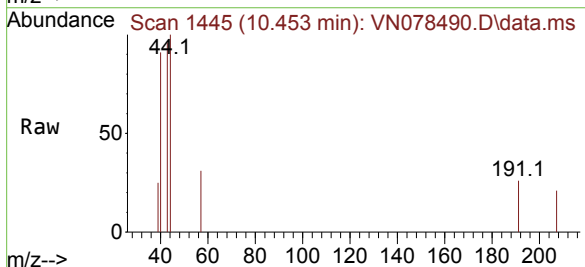
Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01

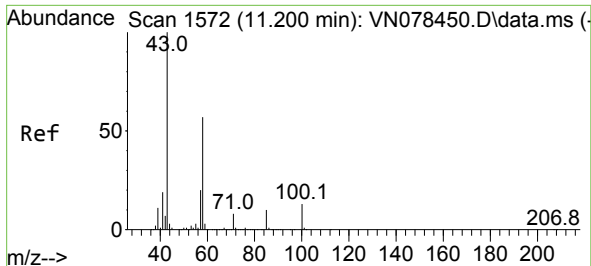
Tgt Ion: 98 Resp: 911305
Ion Ratio Lower Upper
98 100
100 62.1 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.258 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Tgt Ion: 43 Resp: 1601
Ion Ratio Lower Upper
43 100
58 0.0 36.6 54.8#

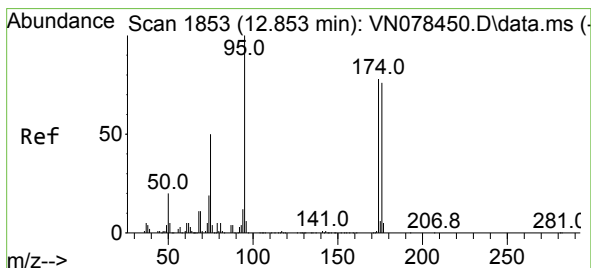
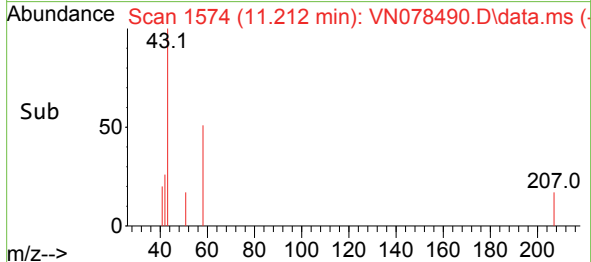
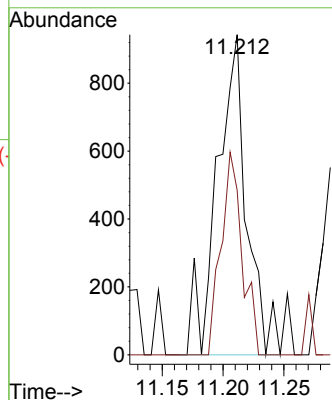
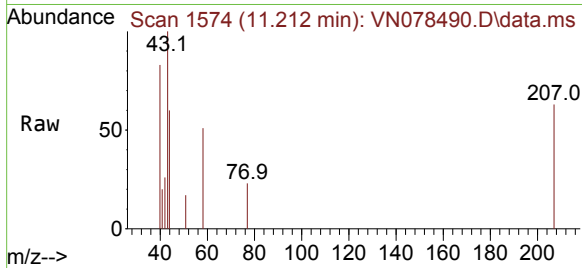




#59
2-Hexanone
Concen: 0.362 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

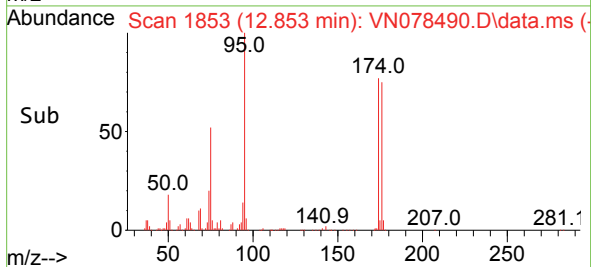
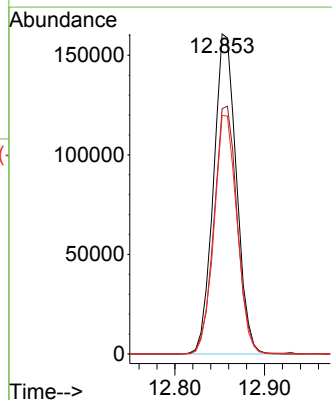
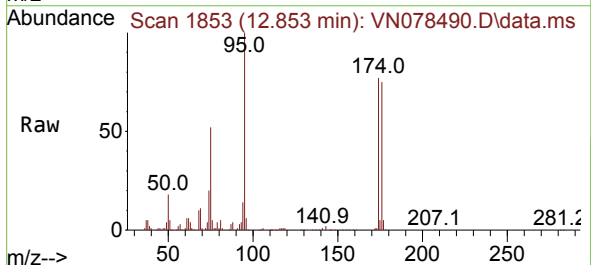
Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01

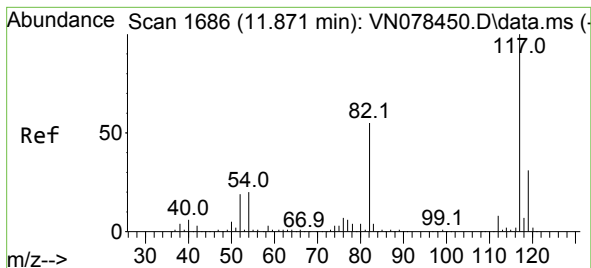
Tgt Ion: 43 Resp: 1596
Ion Ratio Lower Upper
43 100
58 45.4 31.7 95.1



#62
4-Bromofluorobenzene
Concen: 46.492 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Tgt Ion: 95 Resp: 284998
Ion Ratio Lower Upper
95 100
174 78.4 0.0 143.8
176 74.9 0.0 135.8

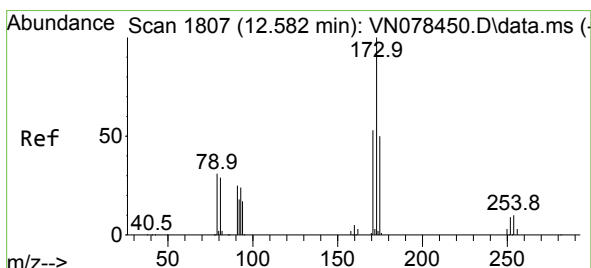
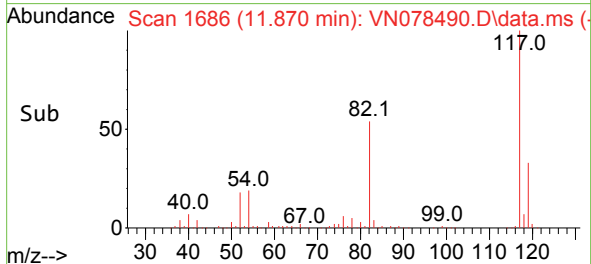
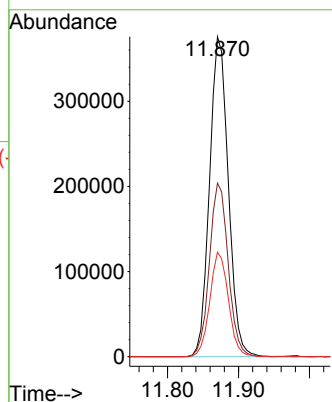
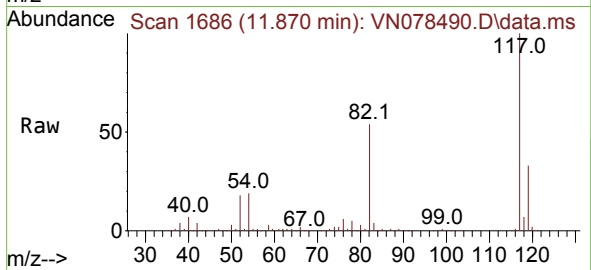




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1185
Delta R.T. -0.001 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

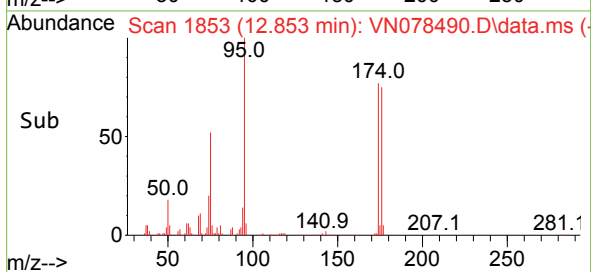
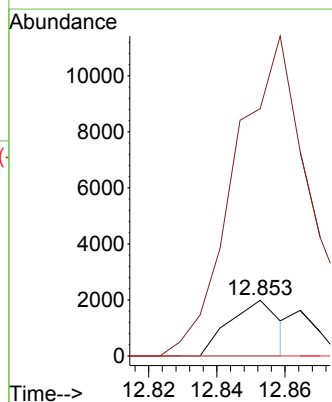
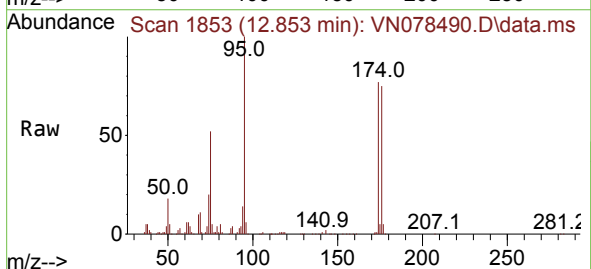
Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01

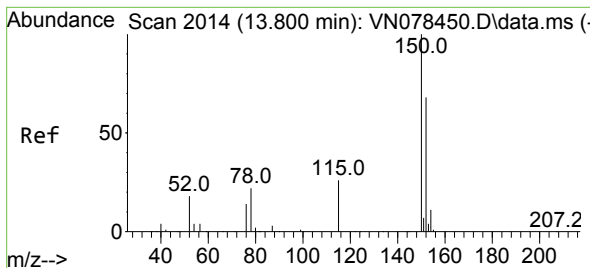
Tgt Ion:117 Resp: 688942
Ion Ratio Lower Upper
117 100
82 54.3 44.0 66.0
119 32.7 25.6 38.4



#71
Bromoform
Concen: 0.503 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Tgt Ion:173 Resp: 2019
Ion Ratio Lower Upper
173 100
175 0.0 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: VN078490.D

Acq: 13 Jul 2023 11:31

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBL01

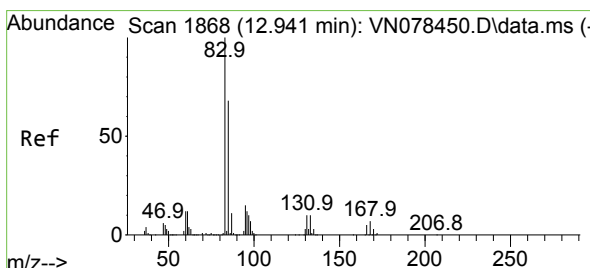
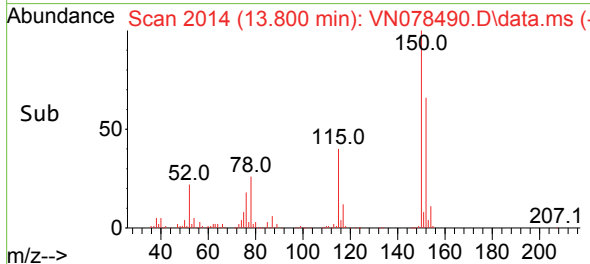
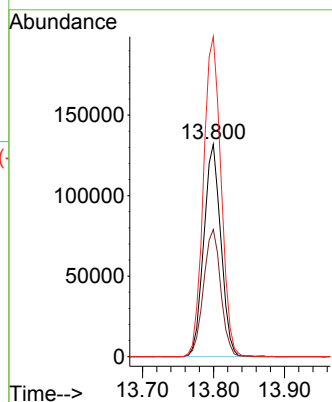
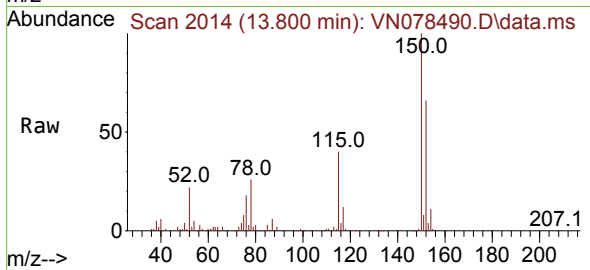
Tgt Ion:152 Resp: 220796

Ion Ratio Lower Upper

152 100

115 60.5 32.3 96.8

150 155.0 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.923 min Scan# 1865

Delta R.T. -0.018 min

Lab File: VN078490.D

Acq: 13 Jul 2023 11:31

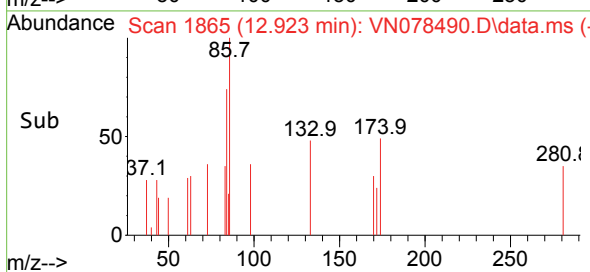
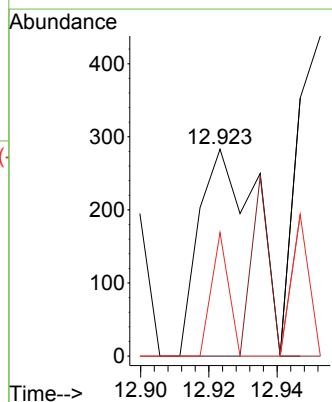
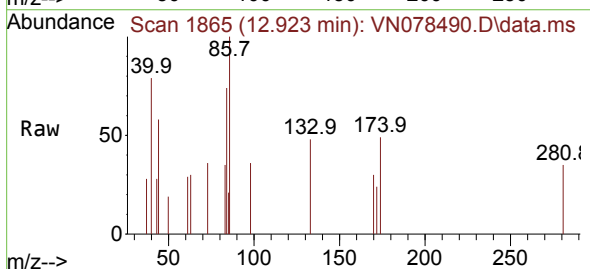
Tgt Ion: 83 Resp: 328

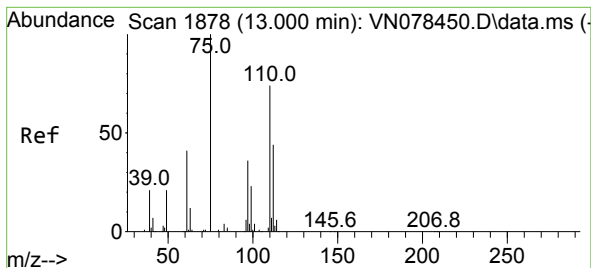
Ion Ratio Lower Upper

83 100

131 26.5 5.0 15.0#

85 18.3 31.9 95.7#

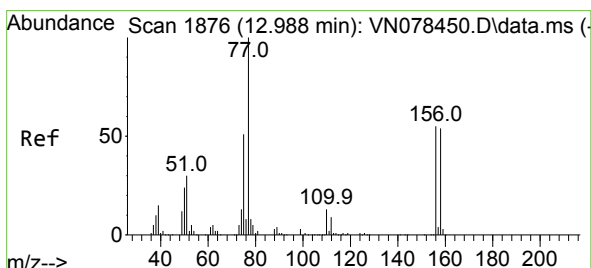
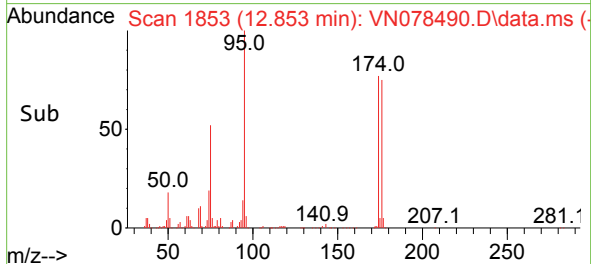
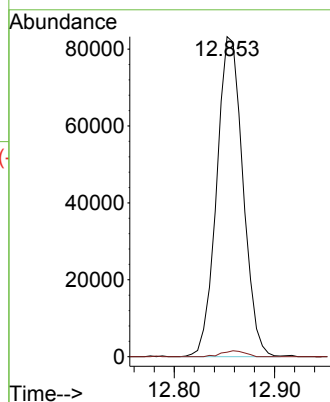
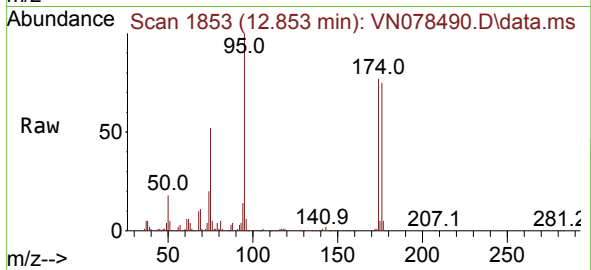




#76
1,2,3-Trichloropropane
Concen: 28.386 ug/l
RT: 12.853 min Scan# 11
Delta R.T. -0.147 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

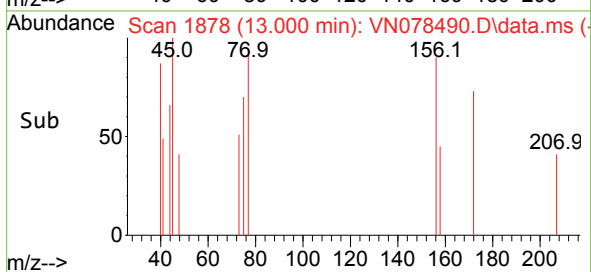
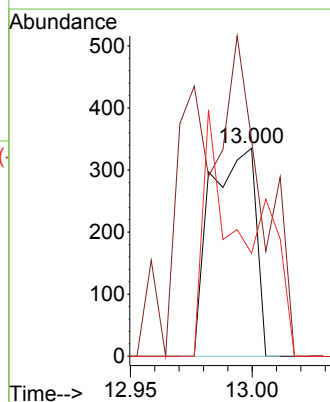
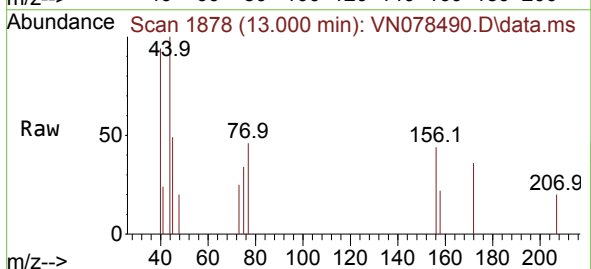
Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01

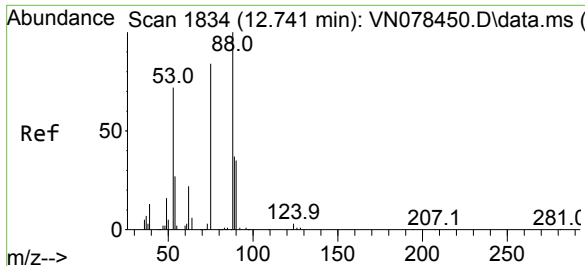
Tgt Ion: 75 Resp: 151492
Ion Ratio Lower Upper
75 100
77 1.7 84.5 253.5#



#77
Bromobenzene
Concen: Below Cal
RT: 13.000 min Scan# 1878
Delta R.T. 0.012 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Tgt Ion:156 Resp: 430
Ion Ratio Lower Upper
156 100
77 0.0 107.7 323.3#
158 0.0 48.4 145.3#

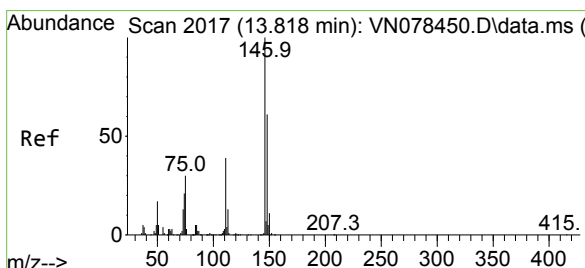
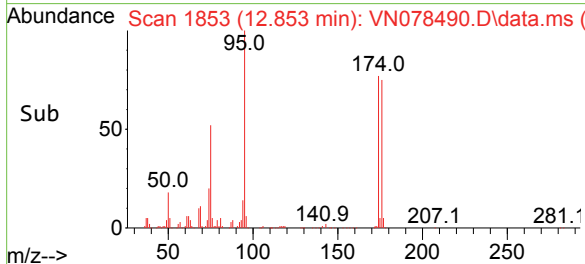
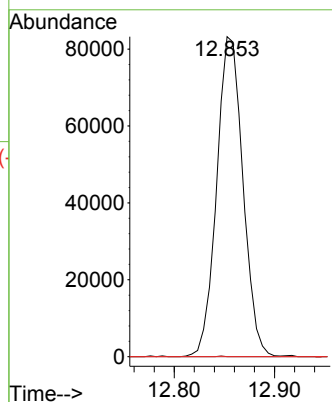
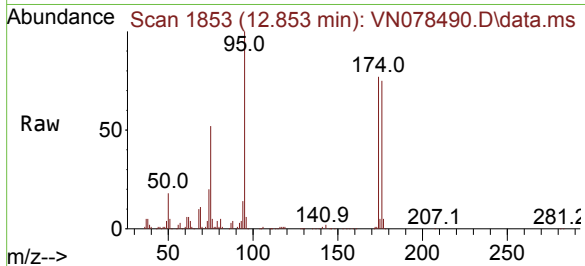




#81
trans-1,4-Dichloro-2-butene
Concen: 74.592 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

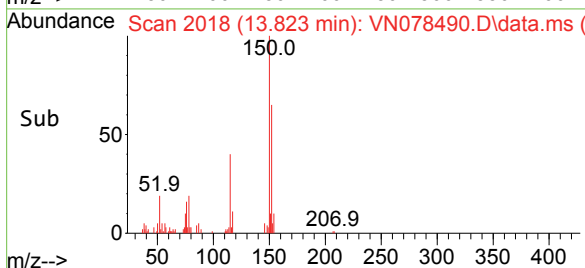
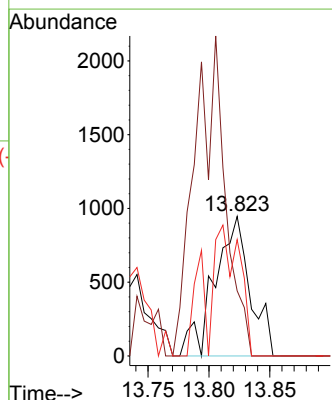
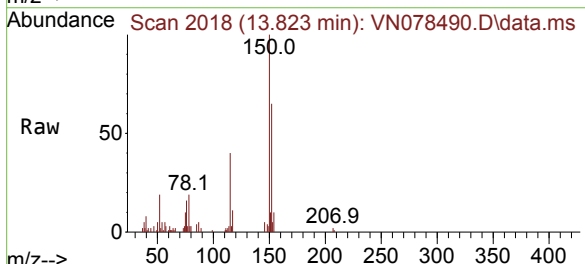
Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01

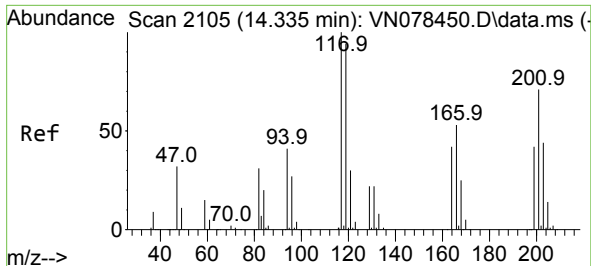
Tgt Ion: 75 Resp: 151492
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#88
1,4-Dichlorobenzene
Concen: 0.239 ug/l
RT: 13.823 min Scan# 2018
Delta R.T. 0.005 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Tgt Ion: 146 Resp: 1920
Ion Ratio Lower Upper
146 100
111 196.7 20.6 61.8#
148 64.8 31.6 94.8

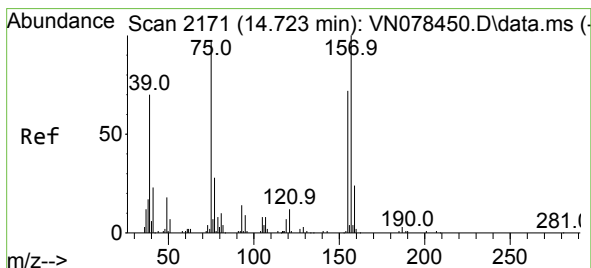
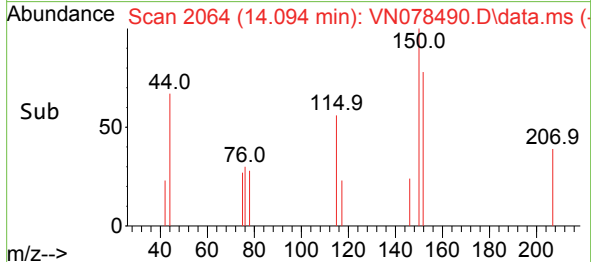
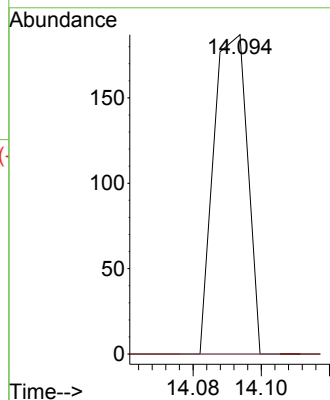
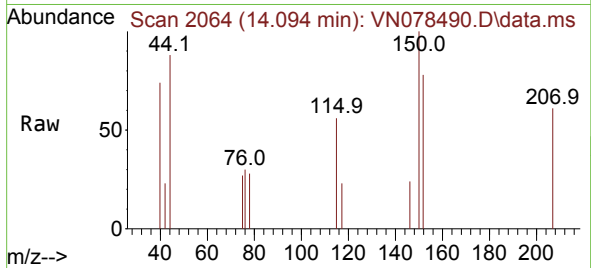




#90
Hexachloroethane
Concen: Below Cal
RT: 14.094 min Scan# 2105
Delta R.T. -0.241 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

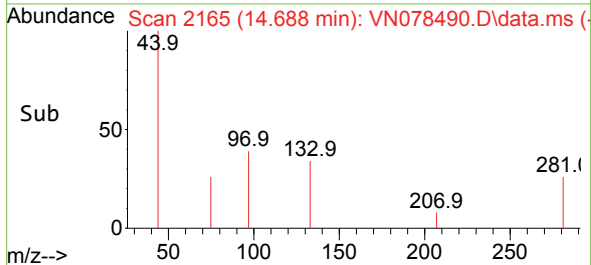
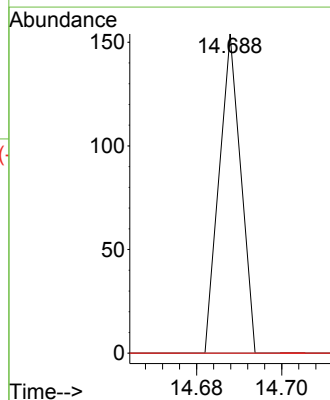
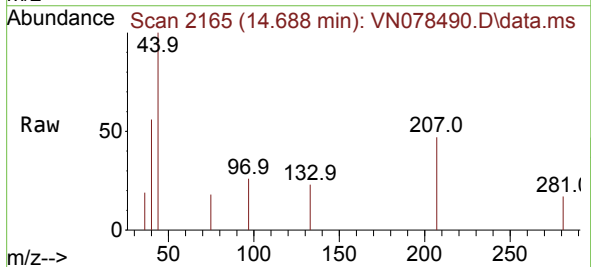
Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01

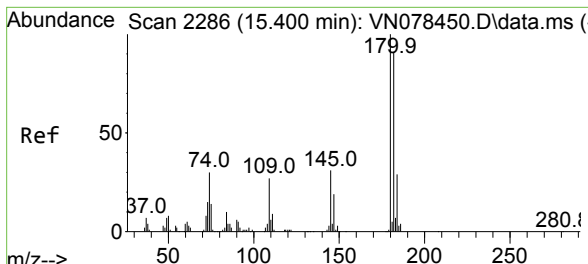
Tgt Ion:117 Resp: 128
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.688 min Scan# 2165
Delta R.T. -0.035 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Tgt Ion: 75 Resp: 54
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#

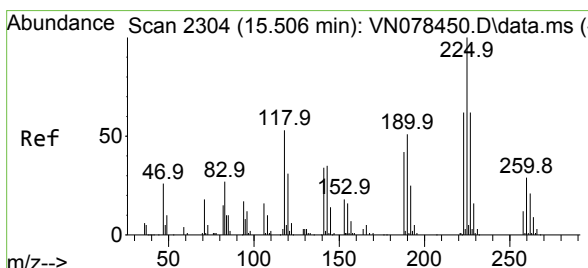
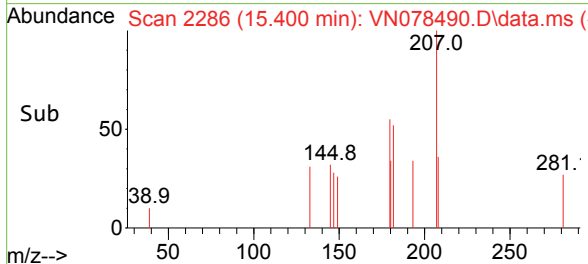
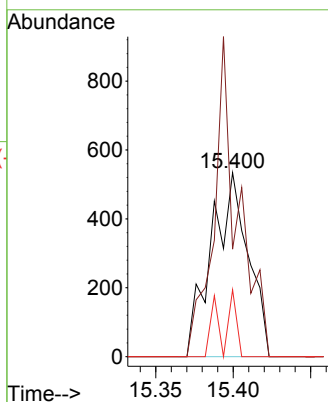
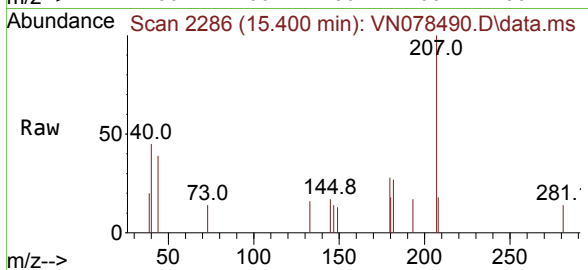




#93
 1,2,4-Trichlorobenzene
 Concen: 0.349 ug/l
 RT: 15.400 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN078490.D
 Acq: 13 Jul 2023 11:31

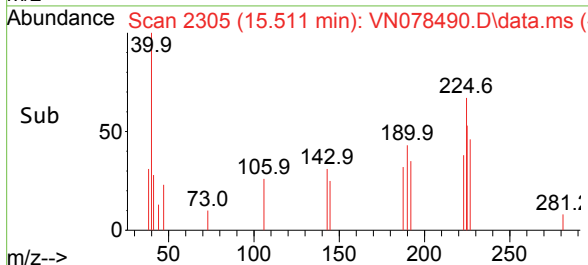
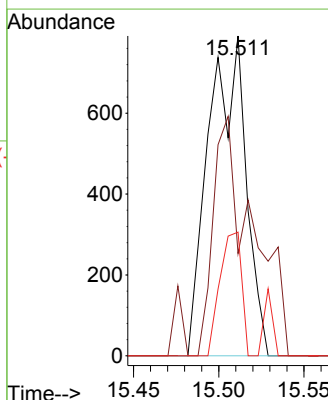
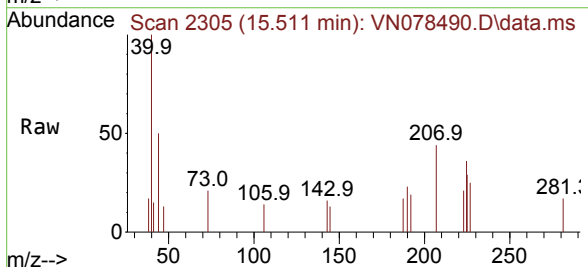
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBL01

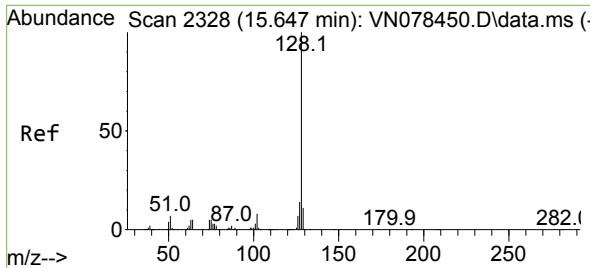
Tgt Ion:180	Resp:	882
Ion Ratio	Lower	Upper
180	100	
182	114.9	46.1 138.2
145	14.9	16.6 49.8#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.511 min Scan# 2305
 Delta R.T. 0.005 min
 Lab File: VN078490.D
 Acq: 13 Jul 2023 11:31

Tgt Ion:225	Resp:	1198
Ion Ratio	Lower	Upper
225	100	
223	79.2	31.3 93.8
227	22.6	31.9 95.9#

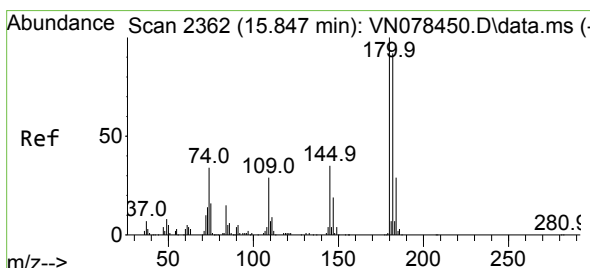
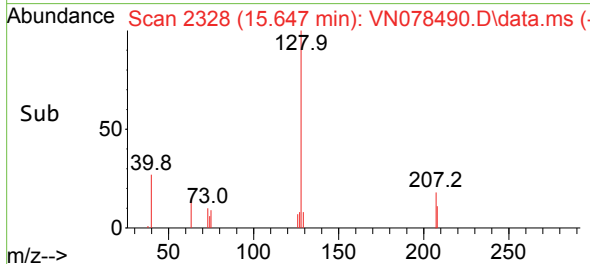
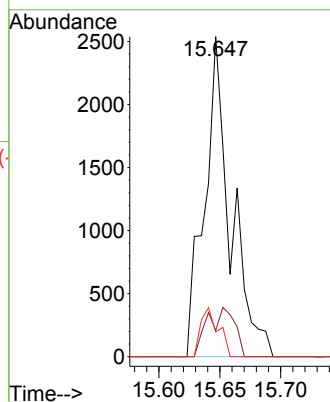
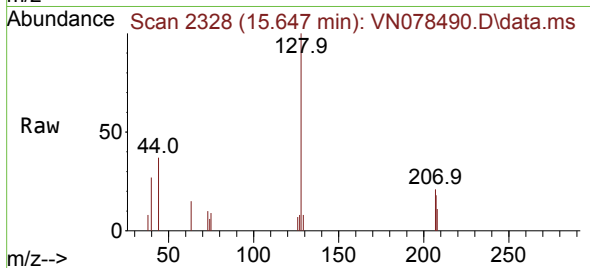




#95
Naphthalene
Concen: 0.437 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. -0.000 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBL01

Tgt Ion:128 Resp: 3777
Ion Ratio Lower Upper
128 100
127 16.0 10.0 15.0#
129 10.4 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.270 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.012 min
Lab File: VN078490.D
Acq: 13 Jul 2023 11:31

Tgt Ion:180 Resp: 785
Ion Ratio Lower Upper
180 100
182 121.3 46.2 138.6
145 38.2 17.5 52.6

