

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072123\
 Data File : VN078606.D
 Acq On : 21 Jul 2023 11:59
 Operator : JC\MD
 Sample : VN0721WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0721WBL01

Quant Time: Jul 21 23:19:52 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)

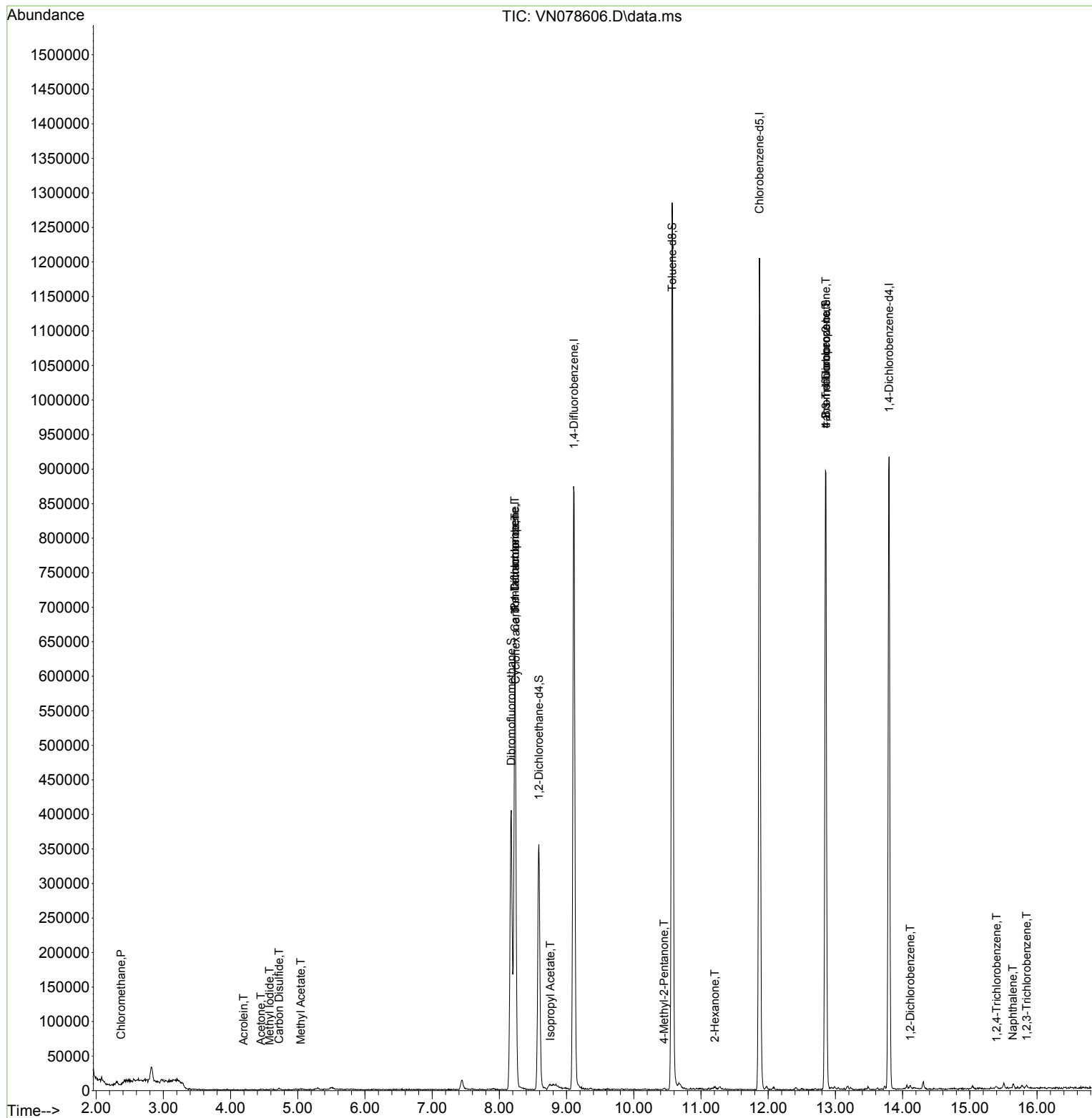
Internal Standards						
1) Pentafluorobenzene	8.229	168	451588	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	790012	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	728407	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	259856	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	286261	47.284	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.560%		
35) Dibromofluoromethane	8.177	113	295956	55.186	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	110.380%		
50) Toluene-d8	10.570	98	940213	46.409	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.820%		
62) 4-Bromofluorobenzene	12.859	95	323724	51.877	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.760%		
Target Compounds						Qvalue
3) Chloromethane	2.371	50	1996	0.332	ug/l	90
5) Bromomethane	2.965	94	3379	Below Cal	#	48
6) Chloroethane	3.106	64	1343	Below Cal	#	85
10) Methyl Iodide	4.583	142	1677	0.248	ug/l #	38
13) Acrolein	4.194	56	288	0.314	ug/l #	16
16) Acetone	4.453	43	1619	0.859	ug/l #	40
17) Carbon Disulfide	4.724	76	3580	0.260	ug/l #	77
18) Methyl Acetate	5.047	43	2141	0.268	ug/l #	42
20) Methylene Chloride	5.283	84	854	Below Cal	#	60
31) Cyclohexane	8.241	56	10018	1.224	ug/l #	50
36) 1,1-Dichloropropene	8.229	75	36027	4.653	ug/l #	50
38) Carbon Tetrachloride	8.235	117	48034	5.708	ug/l #	17
43) Isopropyl Acetate	8.759	43	5039	0.474	ug/l #	49
51) 4-Methyl-2-Pentanone	10.453	43	1398	0.221	ug/l	90
59) 2-Hexanone	11.206	43	2549	0.567	ug/l	85
75) 1,1,2,2-Tetrachloroethane	12.941	83	1208	Below Cal	#	72
76) 1,2,3-Trichloropropane	12.859	75	168865	26.885	ug/l #	1
77) Bromobenzene	12.982	156	908	Below Cal		52
81) trans-1,4-Dichloro-2-b...	12.859	75	168865	70.649	ug/l #	15
90) Hexachloroethane	14.353	117	147	Below Cal	#	1
91) 1,2-Dichlorobenzene	14.117	146	1876	0.201	ug/l	91
92) 1,2-Dibromo-3-Chloropr...	14.858	75	53	Below Cal	#	4
93) 1,2,4-Trichlorobenzene	15.400	180	1410	0.474	ug/l #	81
94) Hexachlorobutadiene	15.505	225	1511	Below Cal		96
95) Naphthalene	15.641	128	5492	0.540	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.847	180	1767	0.516	ug/l	96

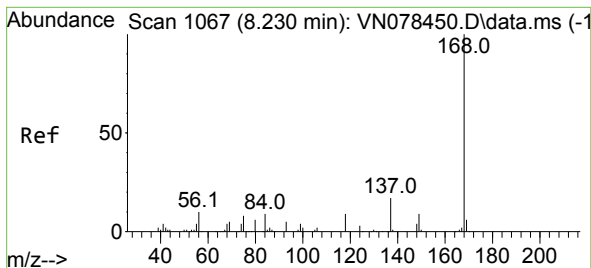
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN078606.D

Acq: 21 Jul 2023 11:59

Instrument :

MSVOA_N

ClientSampleId :

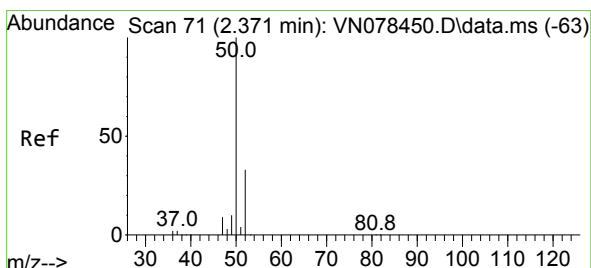
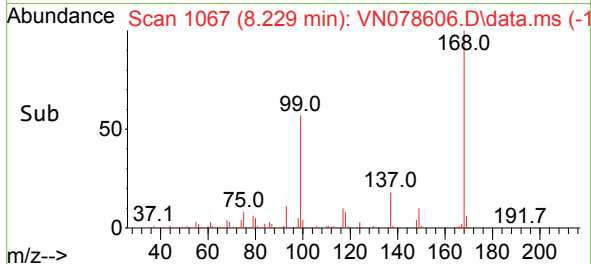
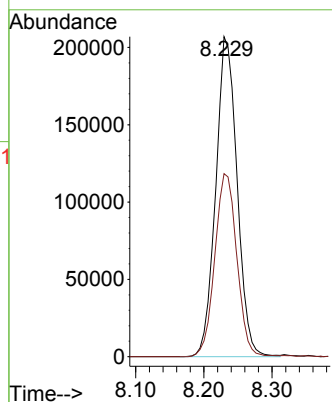
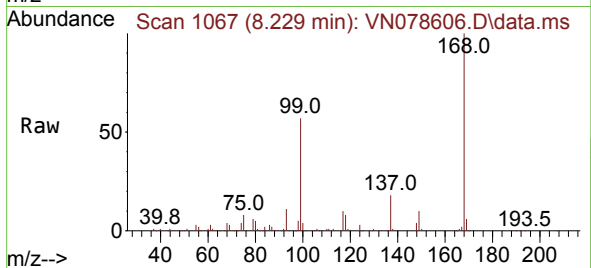
VN0721WBL01

Tgt Ion:168 Resp: 451588

Ion Ratio Lower Upper

168 100

99 57.2 53.0 79.6



#3

Chloromethane

Concen: 0.332 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078606.D

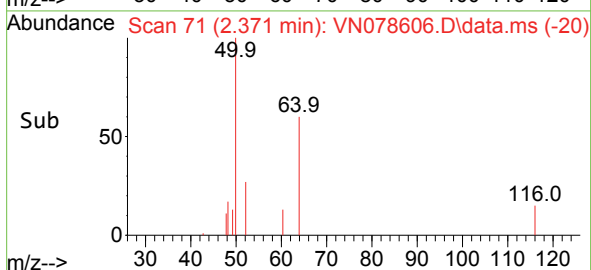
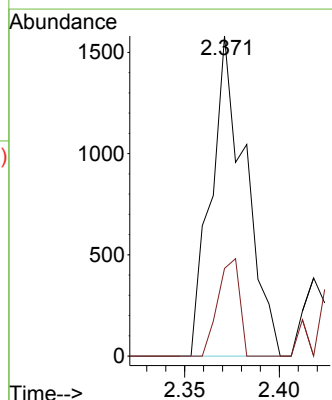
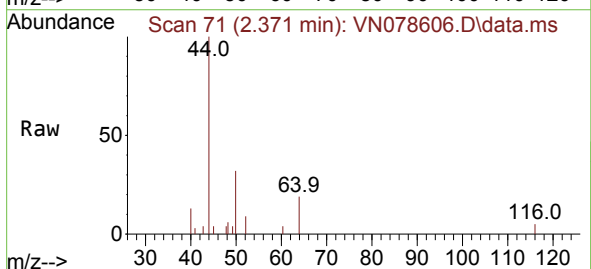
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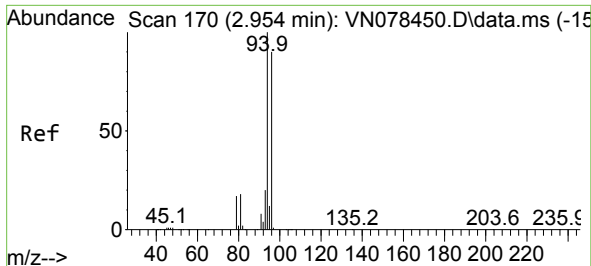
Tgt Ion: 50 Resp: 1996

Ion Ratio Lower Upper

50 100

52 27.4 26.5 39.7

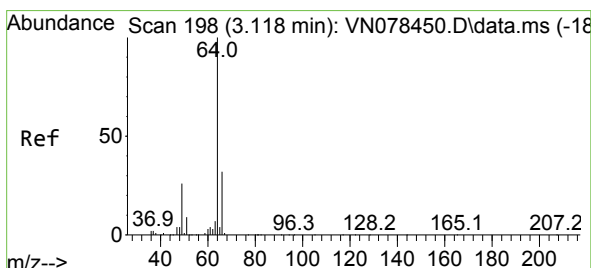
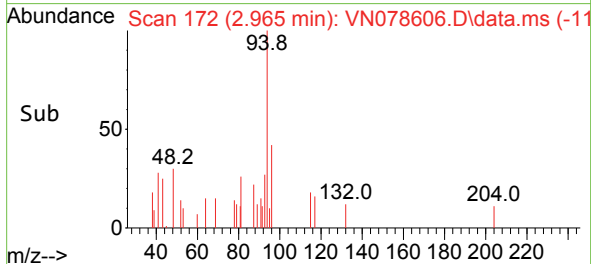
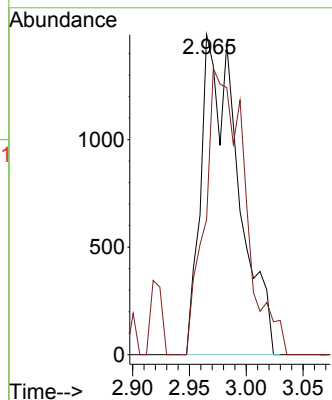
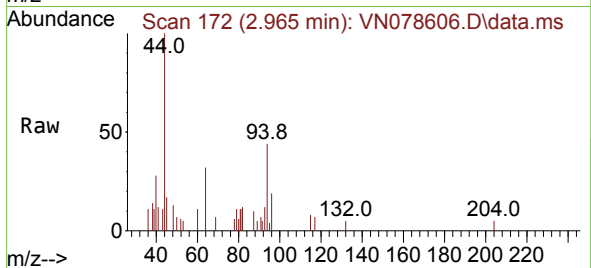




#5
Bromomethane
Concen: Below Cal
RT: 2.965 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

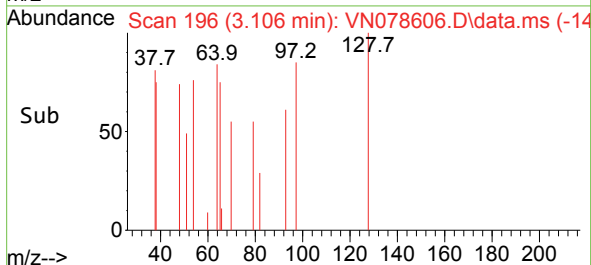
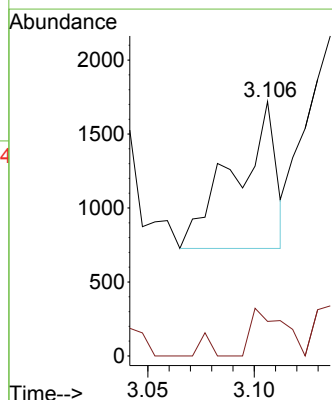
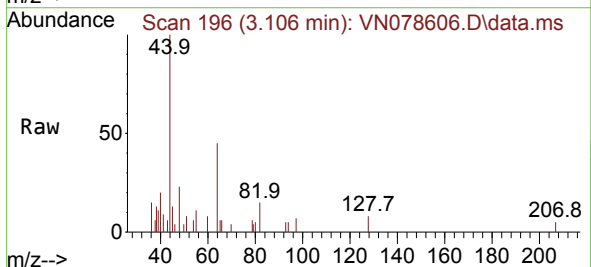
Instrument :
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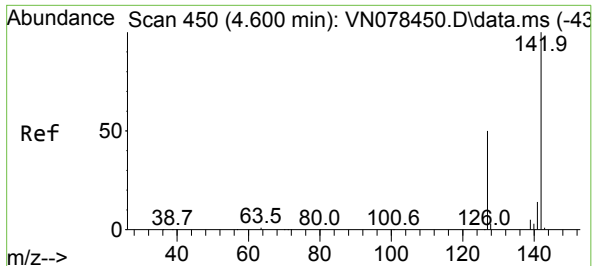
Tgt Ion: 94 Resp: 3379
Ion Ratio Lower Upper
94 100
96 42.2 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.106 min Scan# 196
Delta R.T. -0.012 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

Tgt Ion: 64 Resp: 1343
Ion Ratio Lower Upper
64 100
66 23.6 25.4 38.2#

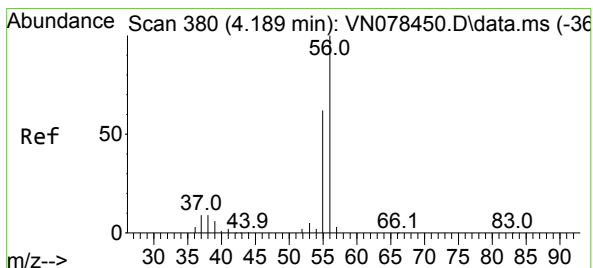
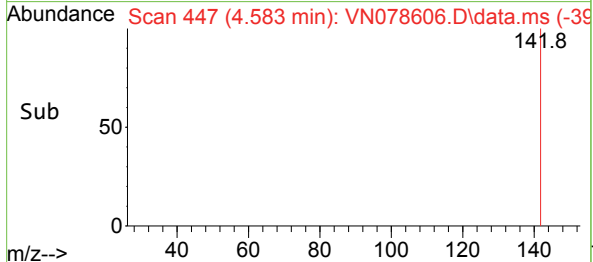
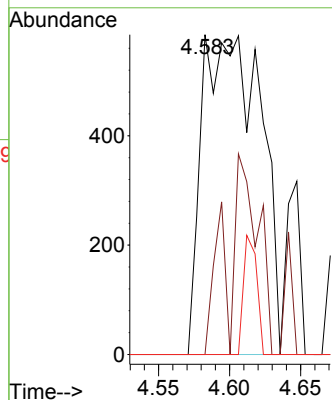
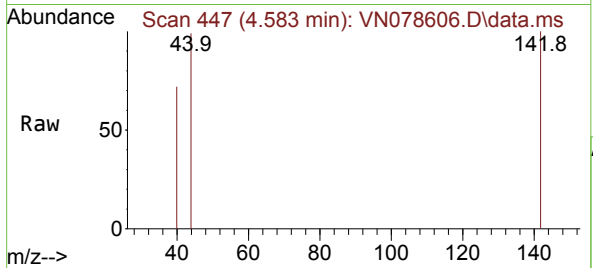




#10
Methyl Iodide
Concen: 0.248 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.017 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

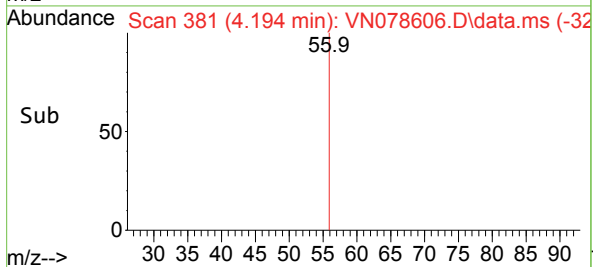
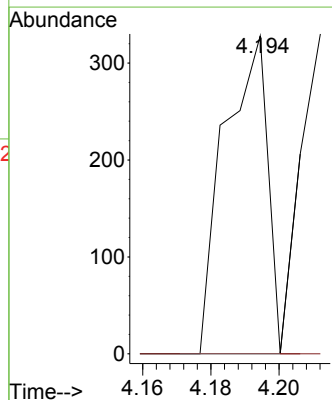
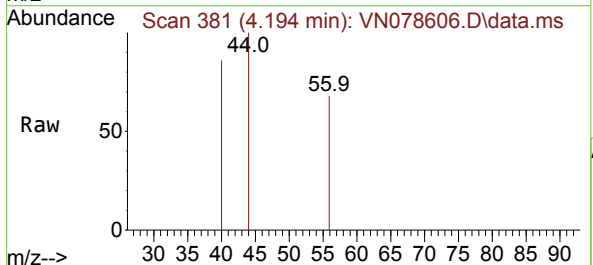
Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

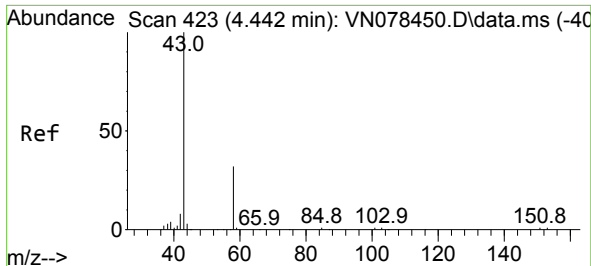
Tgt Ion:142 Resp: 1677
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.4 17.0#



#13
Acrolein
Concen: 0.314 ug/l
RT: 4.194 min Scan# 381
Delta R.T. 0.005 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

Tgt Ion: 56 Resp: 288
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

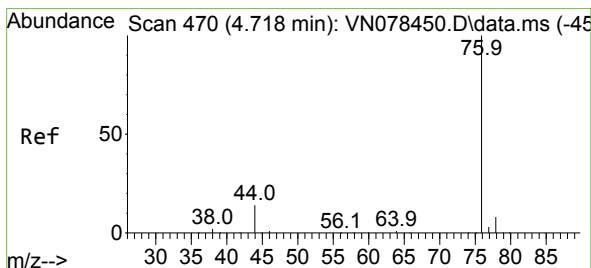
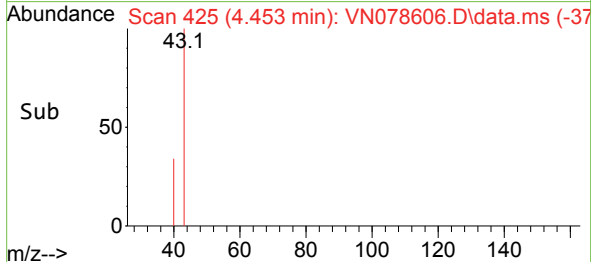
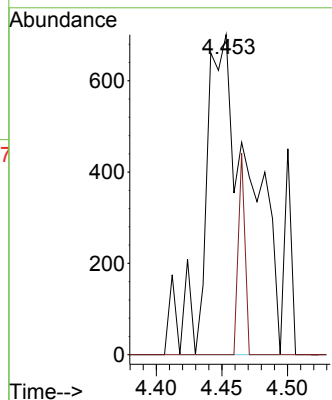
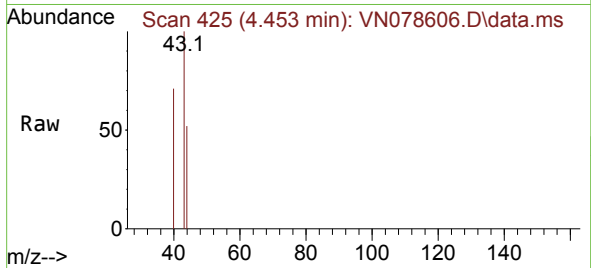




#16
Acetone
Concen: 0.859 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

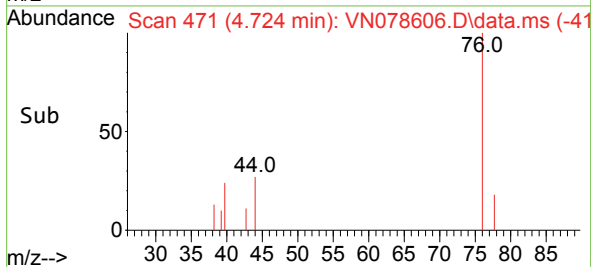
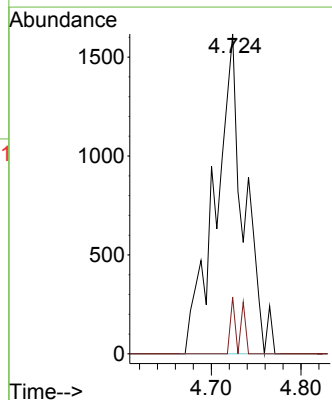
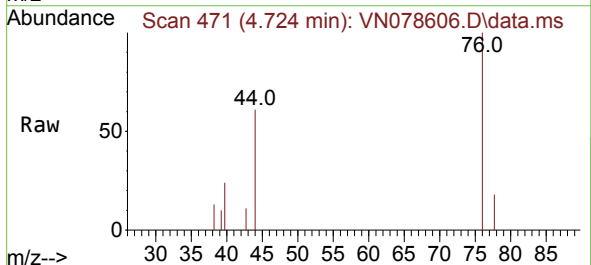
Instrument :
MSVOA_N
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VN0721WBL01

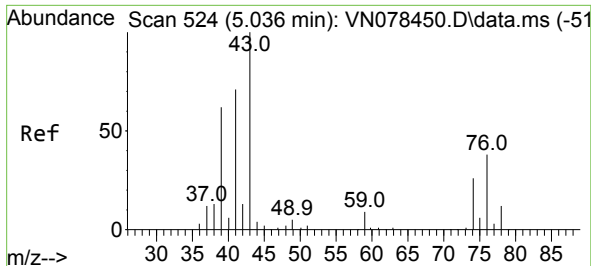
Tgt Ion: 43 Resp: 1619
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.260 ug/l
RT: 4.724 min Scan# 471
Delta R.T. 0.006 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

Tgt Ion: 76 Resp: 3580
Ion Ratio Lower Upper
76 100
78 17.7 7.4 11.0#

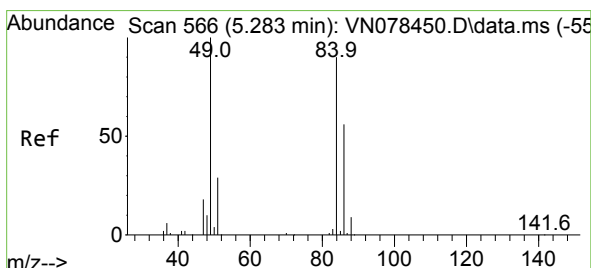
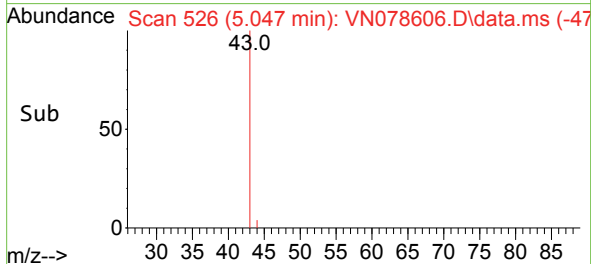
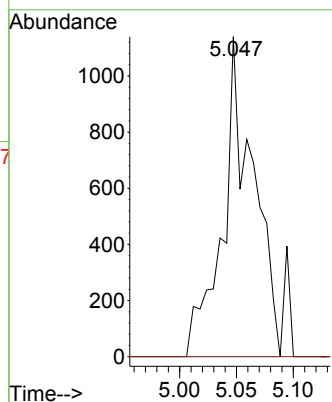
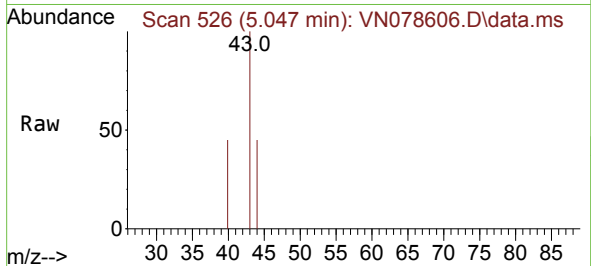




#18
Methyl Acetate
Concen: 0.268 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

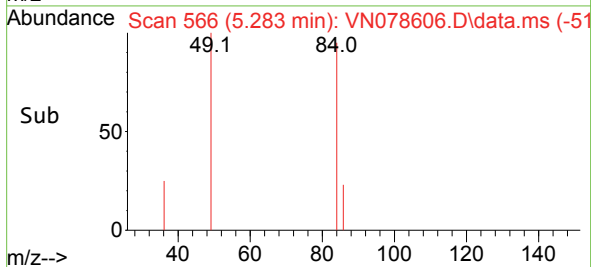
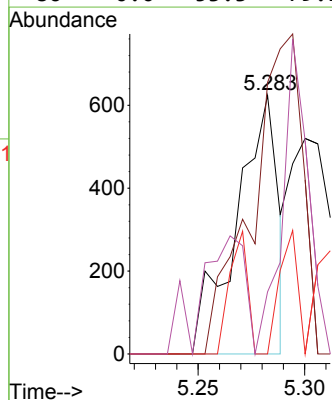
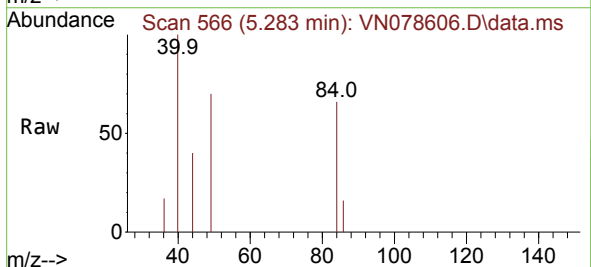
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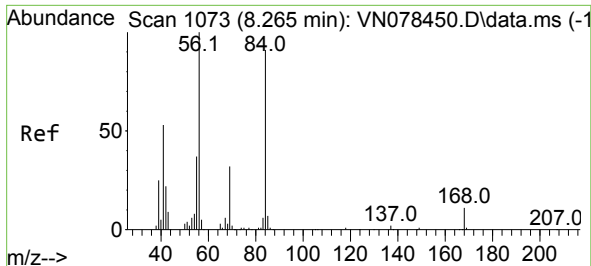
Tgt Ion: 43 Resp: 2141
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

Tgt Ion: 84 Resp: 854
Ion Ratio Lower Upper
84 100
49 105.0 79.7 119.5
51 0.0 25.2 37.8#
86 0.0 53.3 79.9#

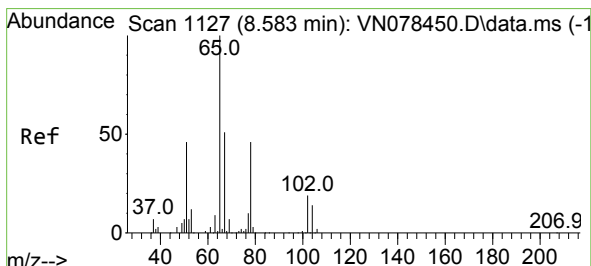
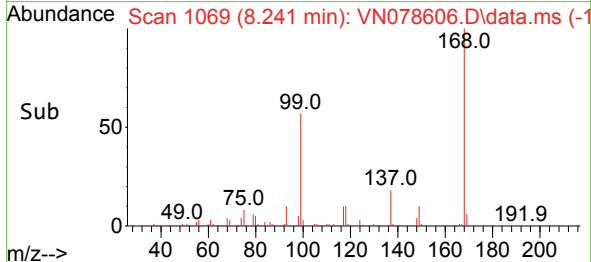
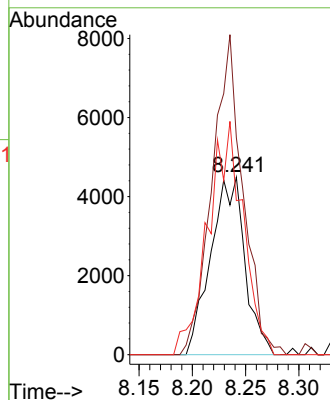
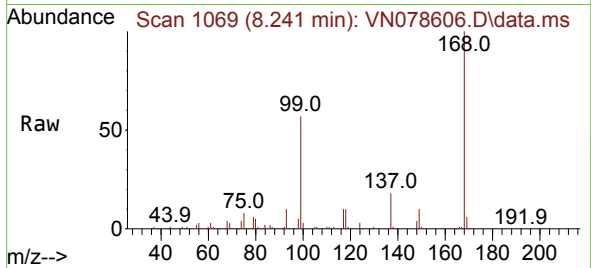




#31
Cyclohexane
Concen: 1.224 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. -0.024 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

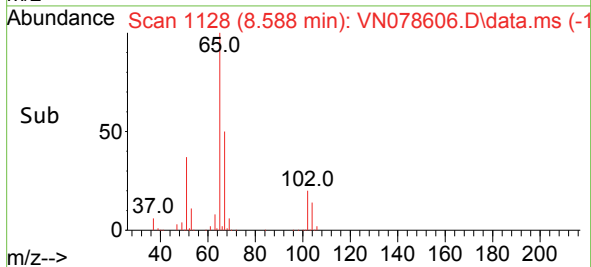
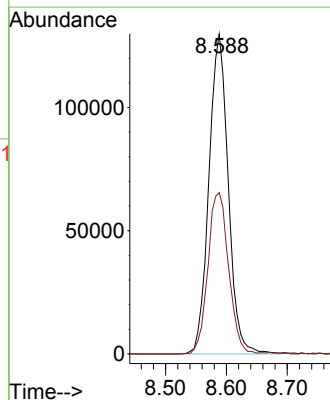
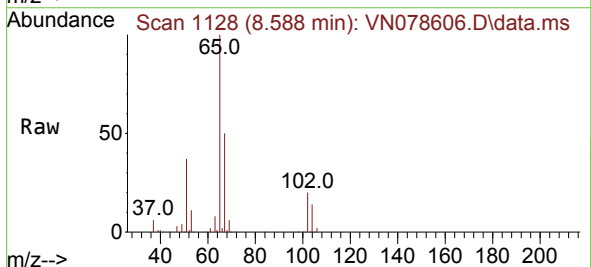
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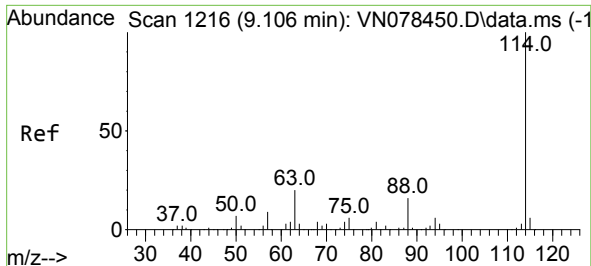
Tgt Ion: 56 Resp: 10018
Ion Ratio Lower Upper
56 100
69 122.3 26.8 40.2#
84 86.8 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 47.284 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

Tgt Ion: 65 Resp: 286261
Ion Ratio Lower Upper
65 100
67 54.0 0.0 106.6

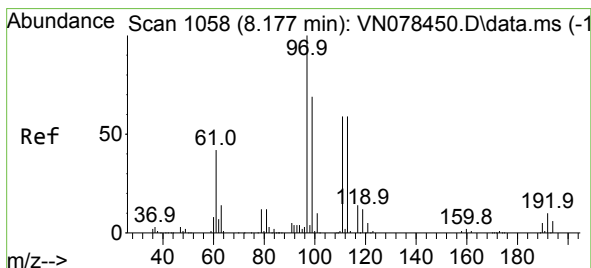
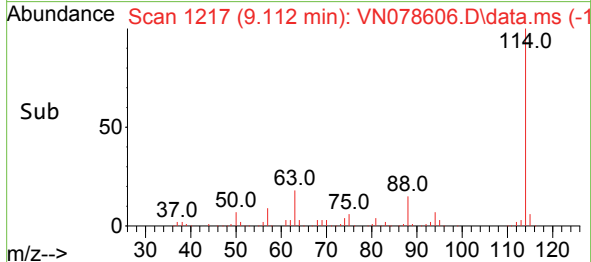
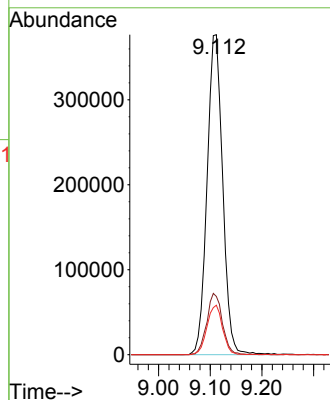
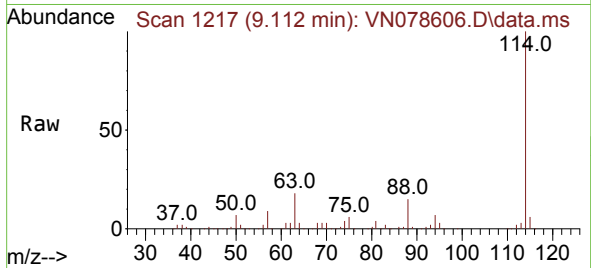




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

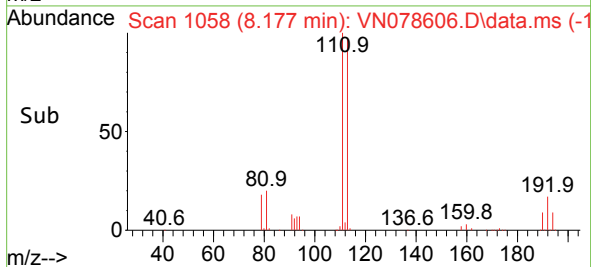
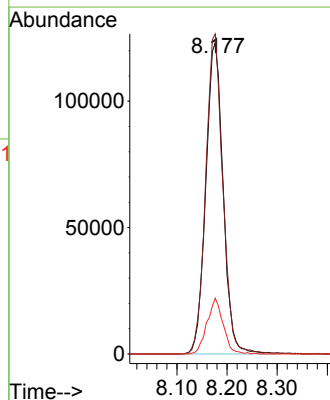
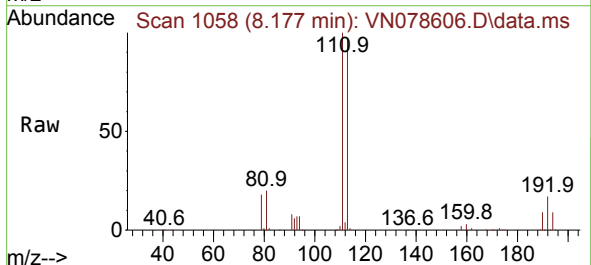
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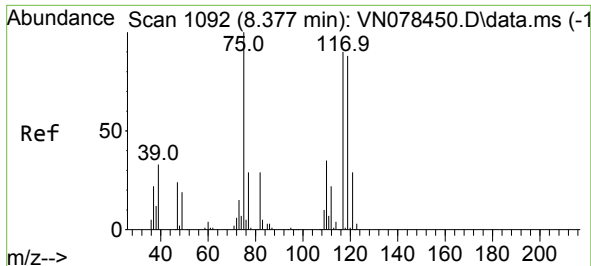
Tgt Ion:114 Resp: 790012
Ion Ratio Lower Upper
114 100
63 18.2 0.0 36.4
88 15.5 0.0 30.6



#35
Dibromofluoromethane
Concen: 55.186 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

Tgt Ion:113 Resp: 295956
Ion Ratio Lower Upper
113 100
111 101.6 82.6 123.8
192 16.7 12.7 19.1

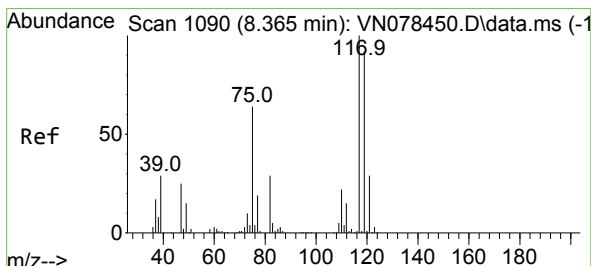
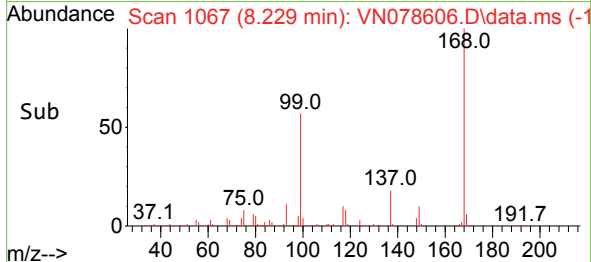
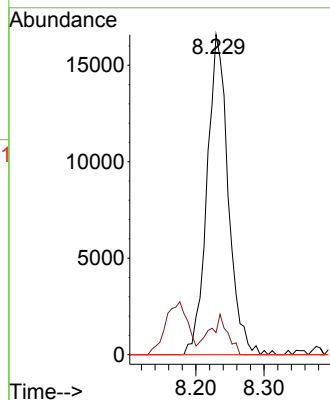
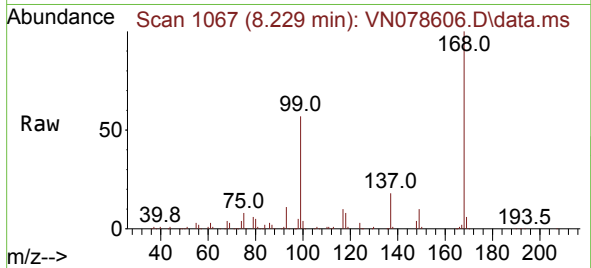




#36
1,1-Dichloropropene
Concen: 4.653 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.148 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

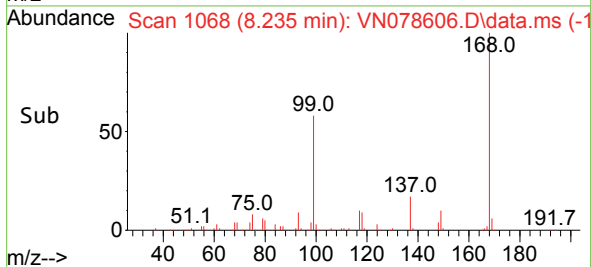
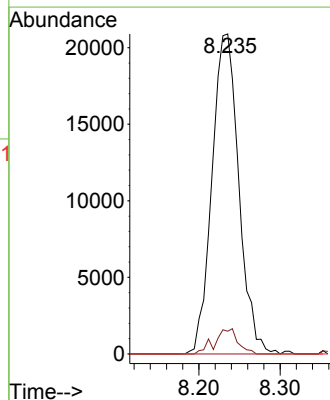
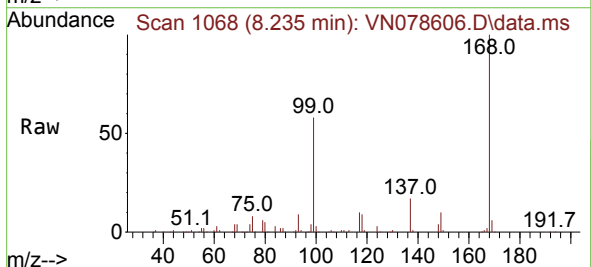
Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

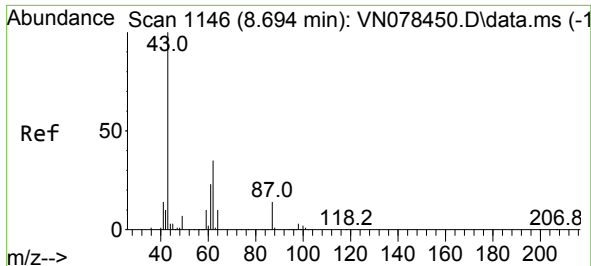
Tgt Ion: 75 Resp: 36027
Ion Ratio Lower Upper
75 100
110 10.9 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 5.708 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.130 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

Tgt Ion: 117 Resp: 48034
Ion Ratio Lower Upper
117 100
119 7.1 77.3 115.9#
121 0.0 23.3 34.9#

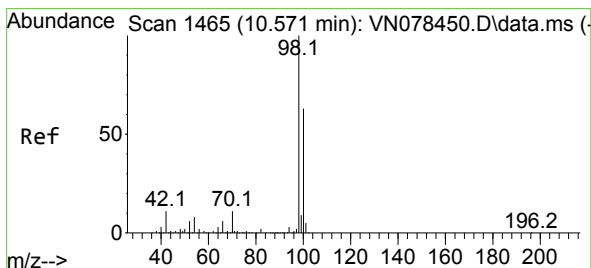
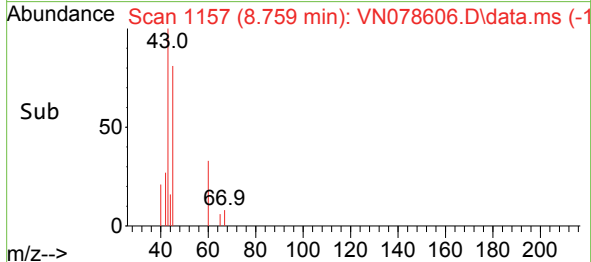
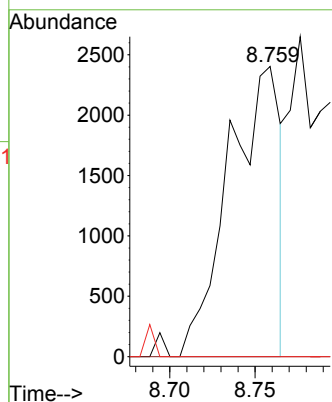
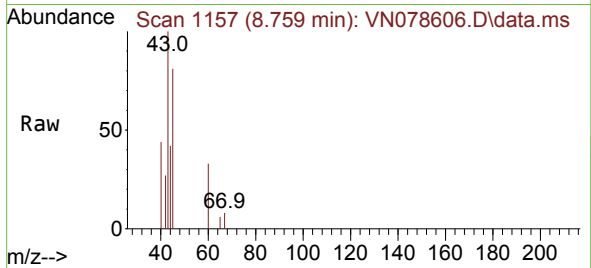




#43
Isopropyl Acetate
Concen: 0.474 ug/l
RT: 8.759 min Scan# 1157
Delta R.T. 0.065 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

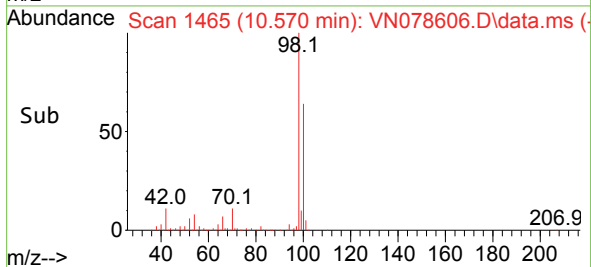
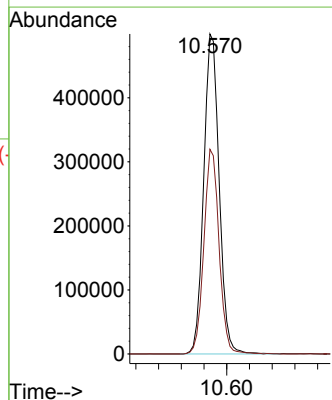
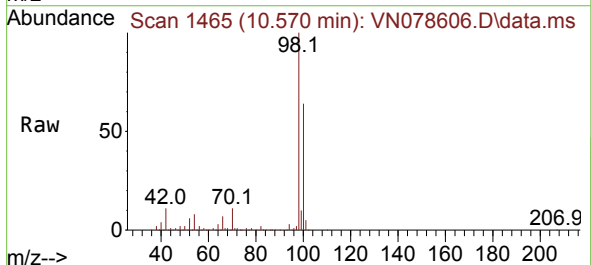
Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

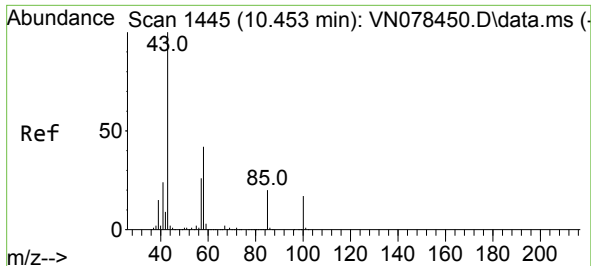
Tgt Ion: 43 Resp: 5039
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#50
Toluene-d8
Concen: 46.409 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.001 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

Tgt Ion: 98 Resp: 940213
Ion Ratio Lower Upper
98 100
100 62.9 52.0 78.0

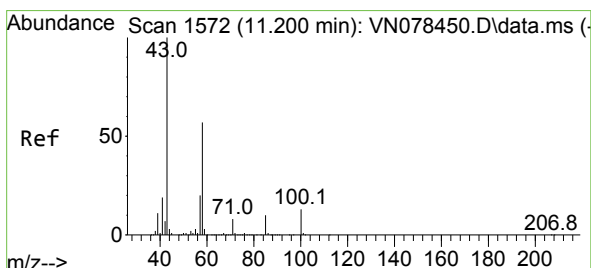
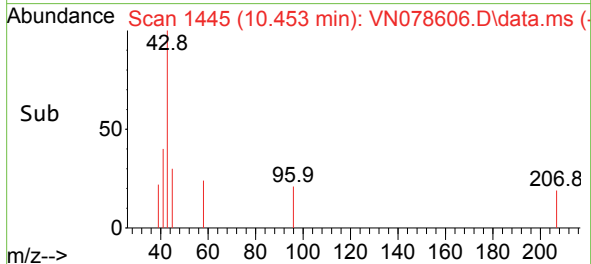
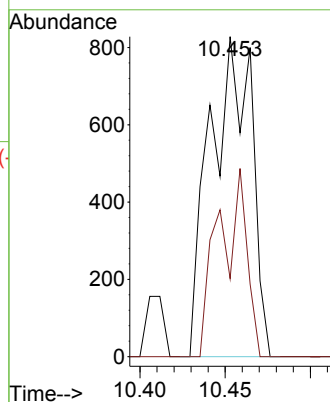
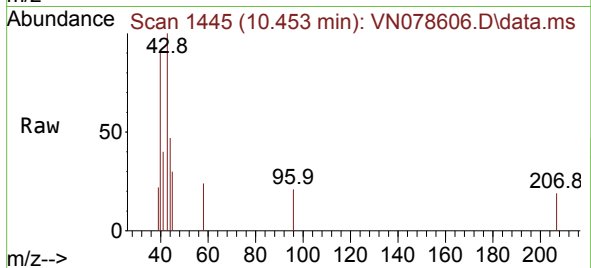




#51
4-Methyl-2-Pentanone
Concen: 0.221 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

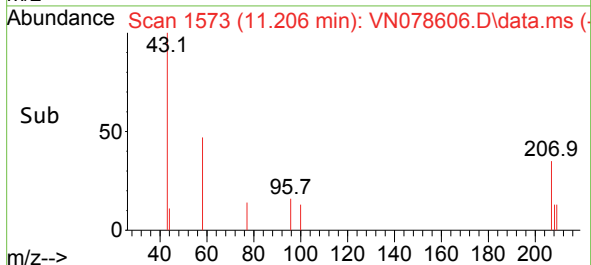
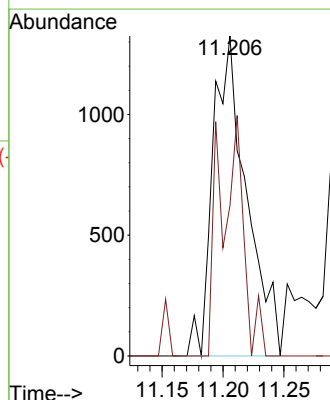
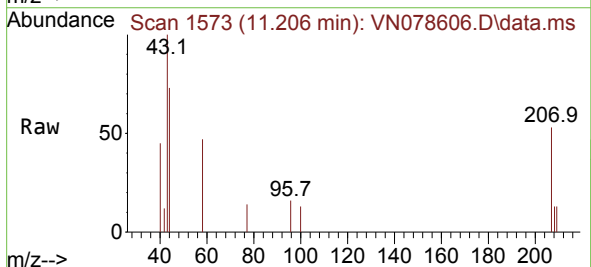
Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

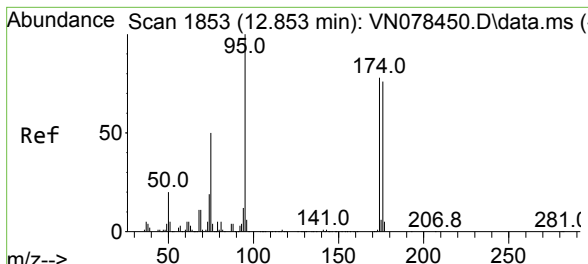
Tgt Ion: 43 Resp: 1398
Ion Ratio Lower Upper
43 100
58 39.3 36.6 54.8



#59
2-Hexanone
Concen: 0.567 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

Tgt Ion: 43 Resp: 2549
Ion Ratio Lower Upper
43 100
58 52.0 31.7 95.1

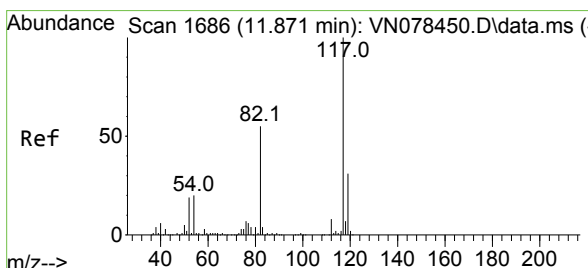
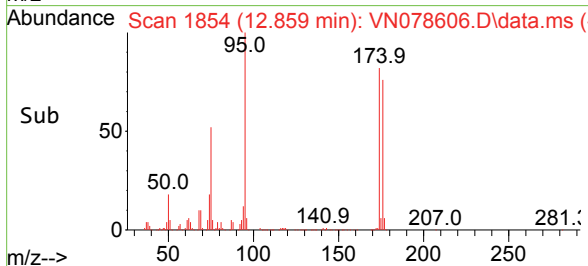
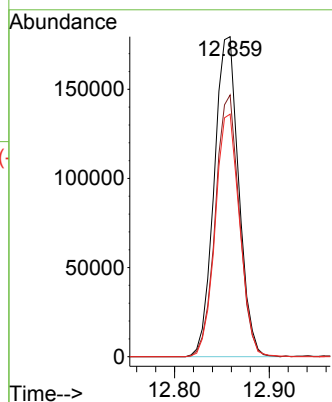
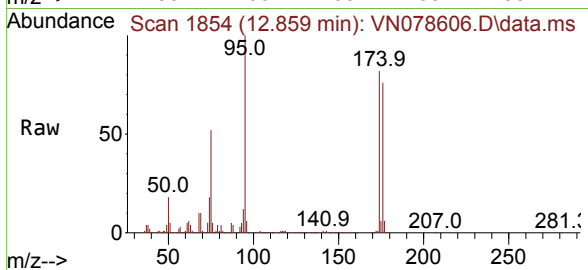




#62
4-Bromofluorobenzene
Concen: 51.877 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

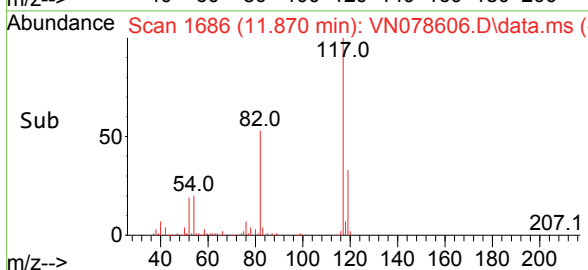
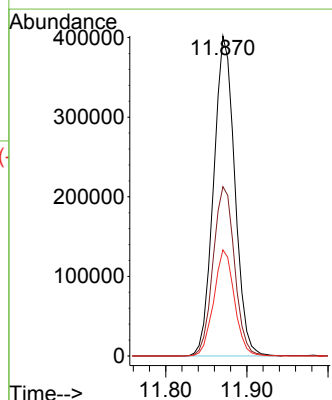
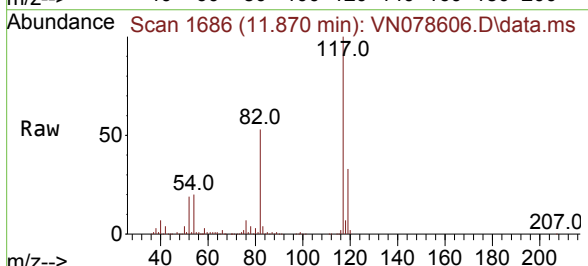
Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

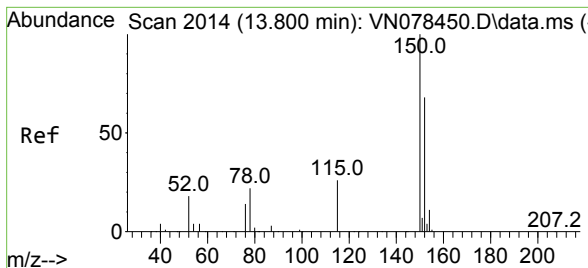
Tgt Ion: 95 Resp: 323724
Ion Ratio Lower Upper
95 100
174 79.6 0.0 143.8
176 75.4 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.001 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

Tgt Ion: 117 Resp: 728407
Ion Ratio Lower Upper
117 100
82 52.9 44.0 66.0
119 33.2 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078606.D

Acq: 21 Jul 2023 11:59

Instrument :

MSVOA_N

ClientSampleId :

VN0721WBL01

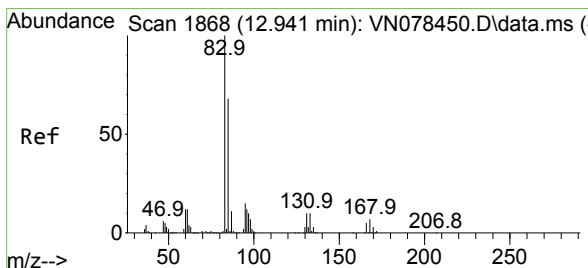
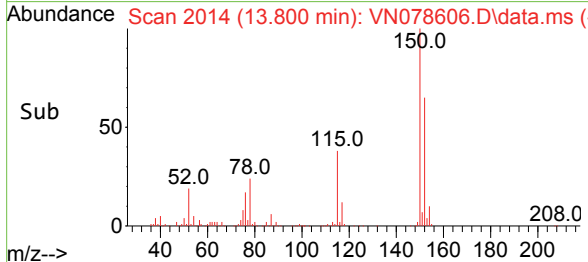
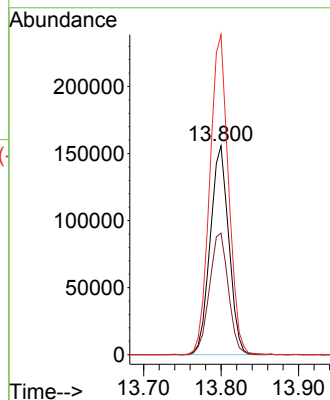
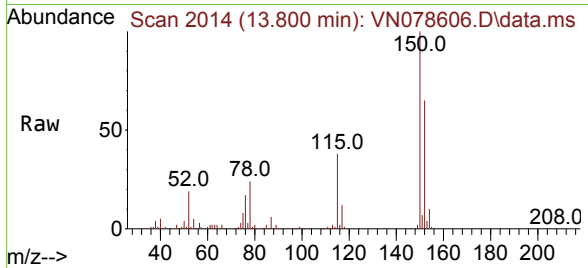
Tgt Ion:152 Resp: 259856

Ion Ratio Lower Upper

152 100

115 59.1 32.3 96.8

150 154.2 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.941 min Scan# 1868

Delta R.T. -0.000 min

Lab File: VN078606.D

Acq: 21 Jul 2023 11:59

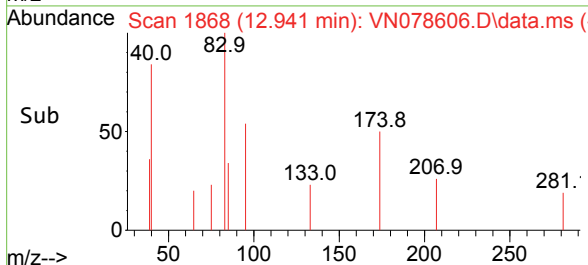
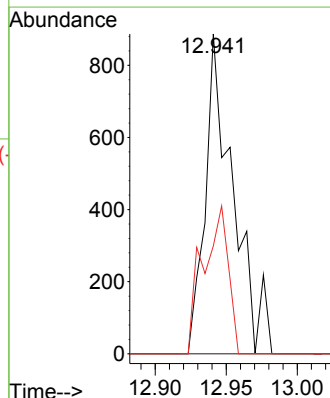
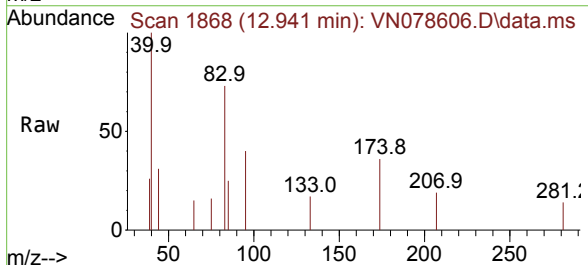
Tgt Ion: 83 Resp: 1208

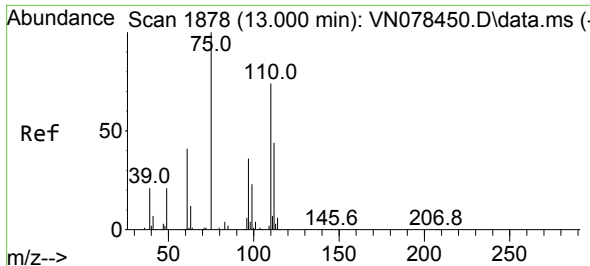
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 41.9 31.9 95.7

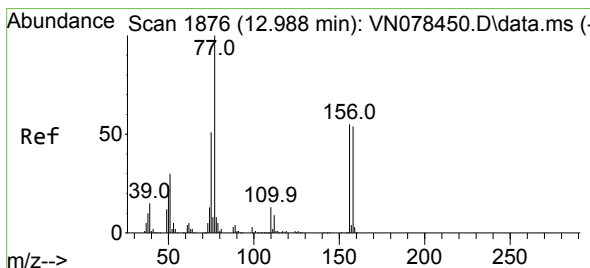
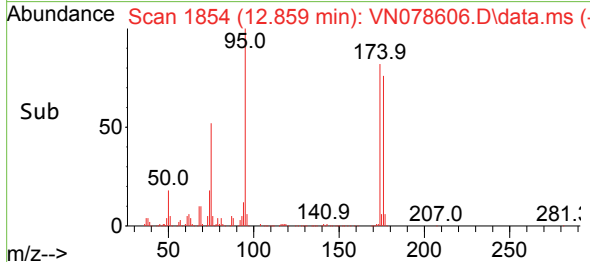
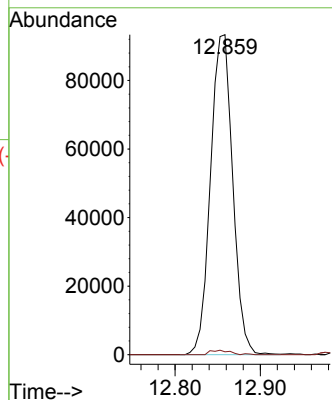
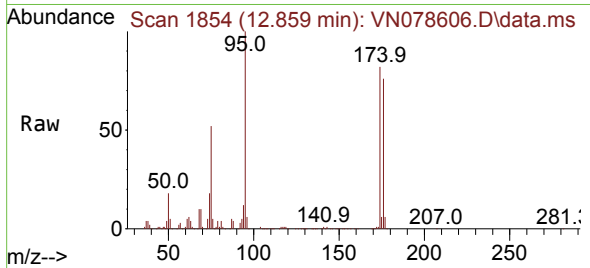




#76
1,2,3-Trichloropropane
Concen: 26.885 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

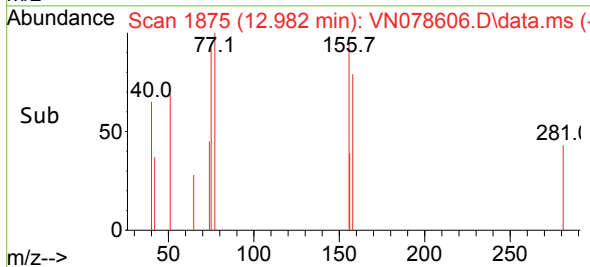
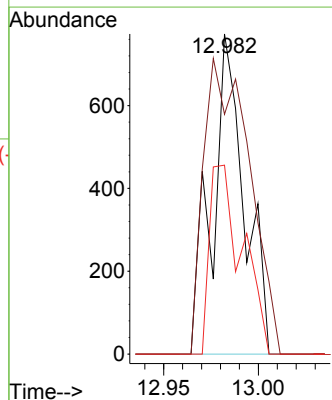
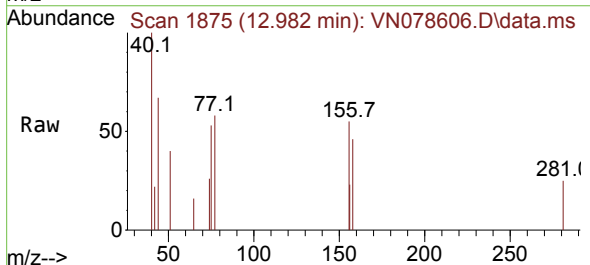
Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

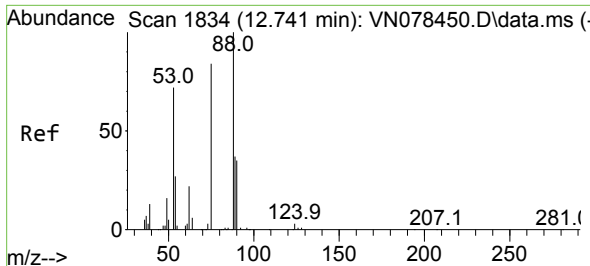
Tgt Ion: 75 Resp: 168865
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#77
Bromobenzene
Concen: Below Cal
RT: 12.982 min Scan# 1875
Delta R.T. -0.006 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

Tgt Ion: 156 Resp: 908
Ion Ratio Lower Upper
156 100
77 132.5 107.7 323.3
158 60.4 48.4 145.3

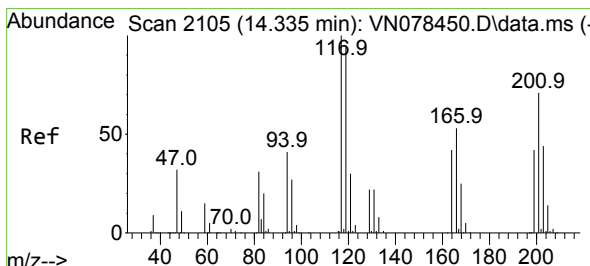
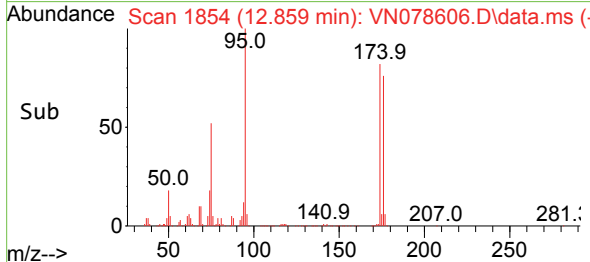
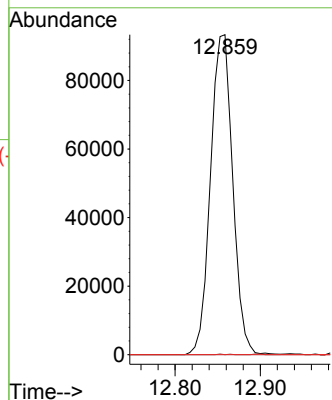
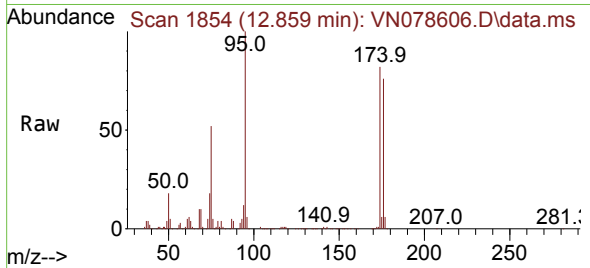




#81
trans-1,4-Dichloro-2-butene
Concen: 70.649 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

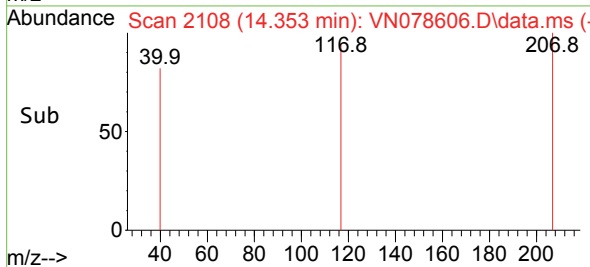
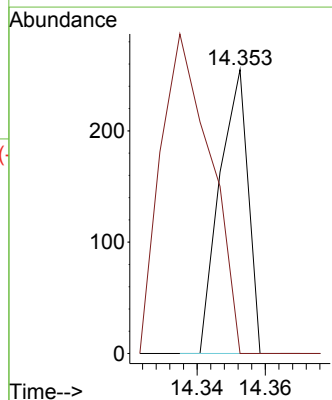
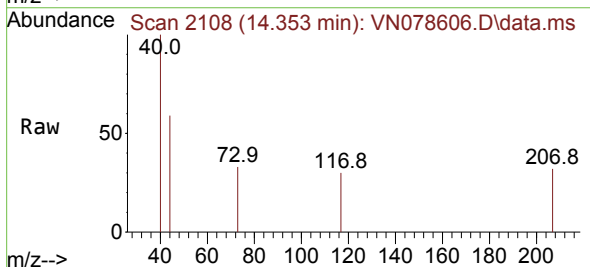
Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

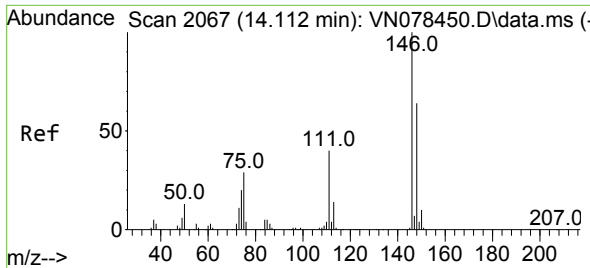
Tgt Ion: 75 Resp: 168865
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#



#90
Hexachloroethane
Concen: Below Cal
RT: 14.353 min Scan# 2108
Delta R.T. 0.018 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

Tgt Ion: 117 Resp: 147
Ion Ratio Lower Upper
117 100
201 198.0 29.3 88.0#

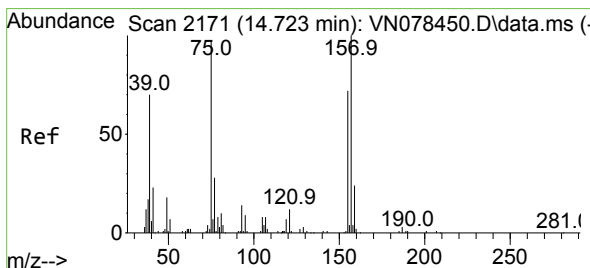
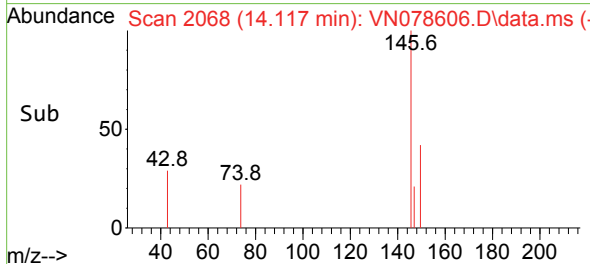
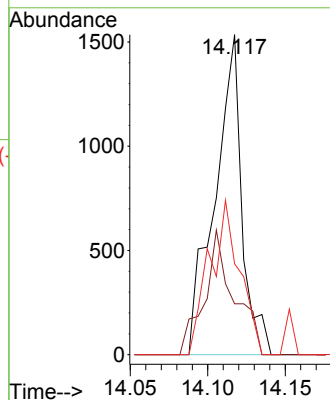
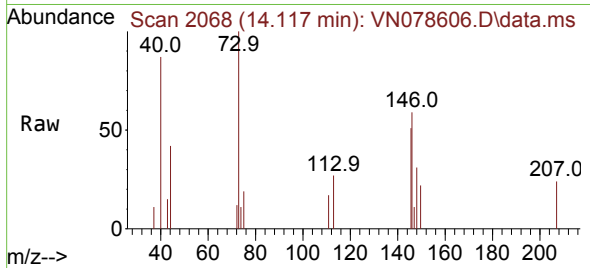




#91
1,2-Dichlorobenzene
Concen: 0.201 ug/l
RT: 14.117 min Scan# 2068
Delta R.T. 0.005 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

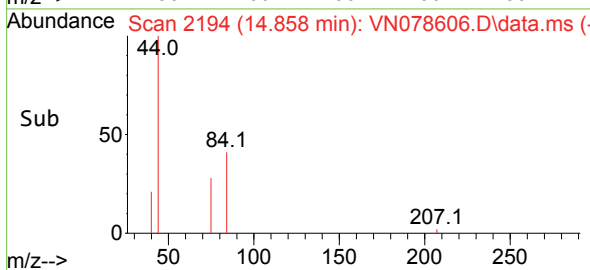
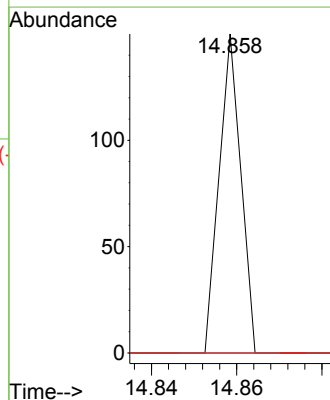
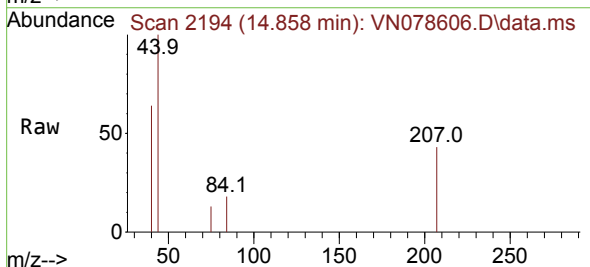
Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

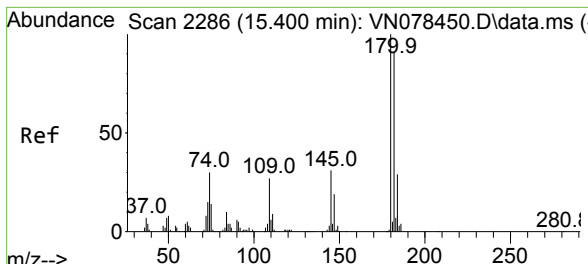
Tgt Ion:146 Resp: 1876
Ion Ratio Lower Upper
146 100
111 42.5 22.0 66.0
148 53.3 31.8 95.3



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.858 min Scan# 2194
Delta R.T. 0.135 min
Lab File: VN078606.D
Acq: 21 Jul 2023 11:59

Tgt Ion: 75 Resp: 53
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#

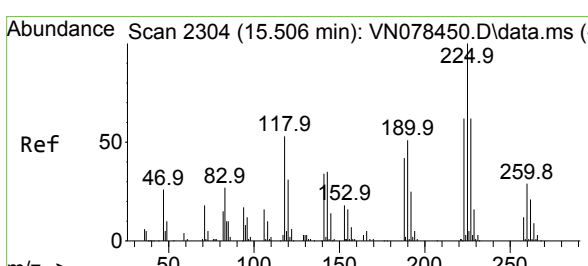
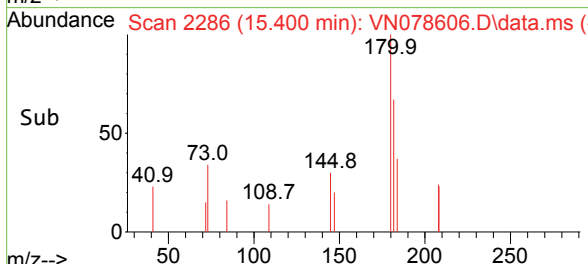
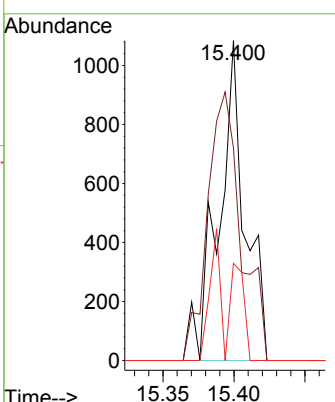
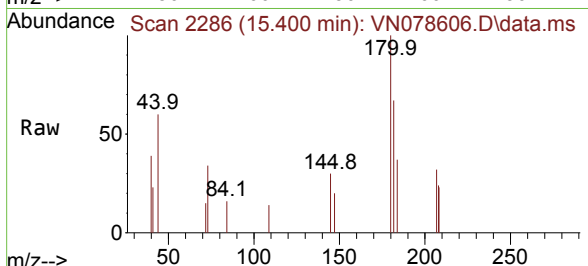




#93
 1,2,4-Trichlorobenzene
 Concen: 0.474 ug/l
 RT: 15.400 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN078606.D
 Acq: 21 Jul 2023 11:59

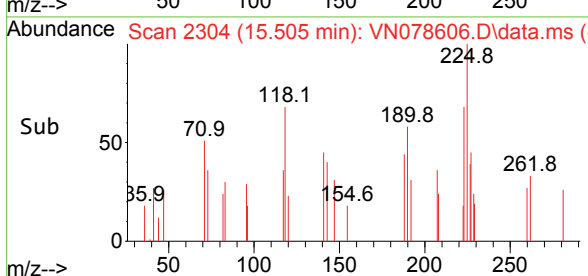
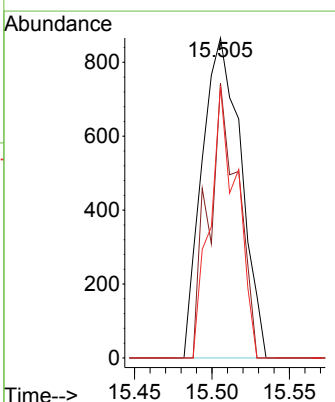
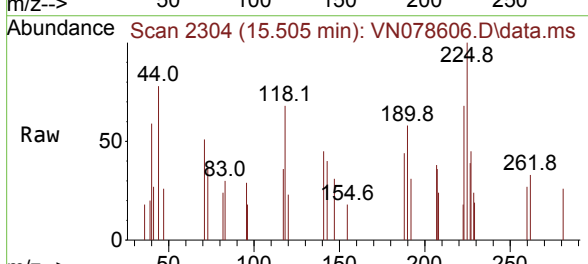
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0721WBL01

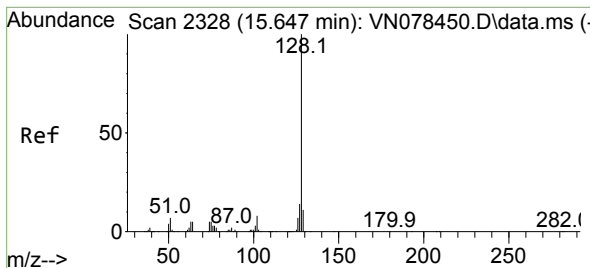
Tgt Ion:	180	Resp:	1410
Ion Ratio	Lower	Upper	
180	100		
182	106.0	46.1	138.2
145	16.3	16.6	49.8#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.505 min Scan# 2304
 Delta R.T. -0.001 min
 Lab File: VN078606.D
 Acq: 21 Jul 2023 11:59

Tgt Ion:	225	Resp:	1511
Ion Ratio	Lower	Upper	
225	100		
223	64.6	31.3	93.8
227	59.1	31.9	95.9





#95

Naphthalene

Concen: 0.540 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN078606.D

Acq: 21 Jul 2023 11:59

Instrument :

MSVOA_N

ClientSampleId :

VN0721WBL01

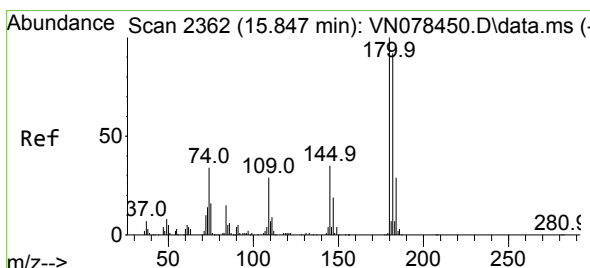
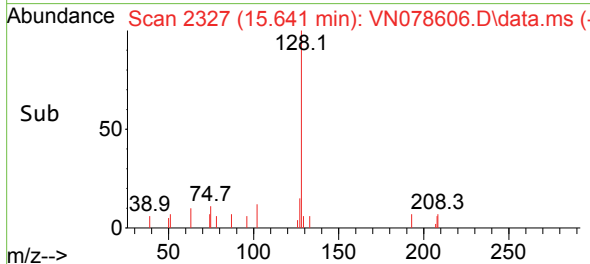
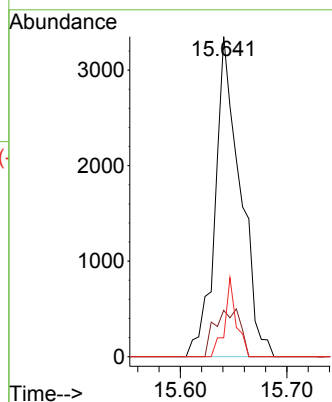
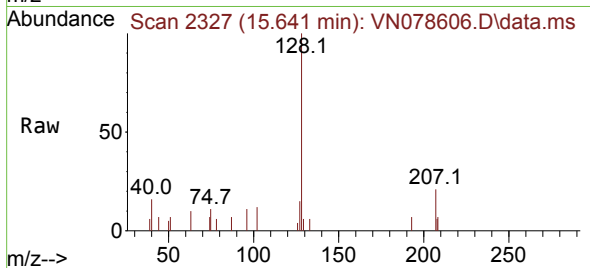
Tgt Ion:128 Resp: 5492

Ion Ratio Lower Upper

128 100

127 15.1 10.0 15.0#

129 11.3 8.7 13.1



#96

1,2,3-Trichlorobenzene

Concen: 0.516 ug/l

RT: 15.847 min Scan# 2362

Delta R.T. -0.000 min

Lab File: VN078606.D

Acq: 21 Jul 2023 11:59

Tgt Ion:180 Resp: 1767

Ion Ratio Lower Upper

180 100

182 88.7 46.2 138.6

145 33.3 17.5 52.6

