

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078320.D
 Acq On : 21 Jun 2023 14:22
 Operator : JC\MD
 Sample : 03359-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 04:49:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

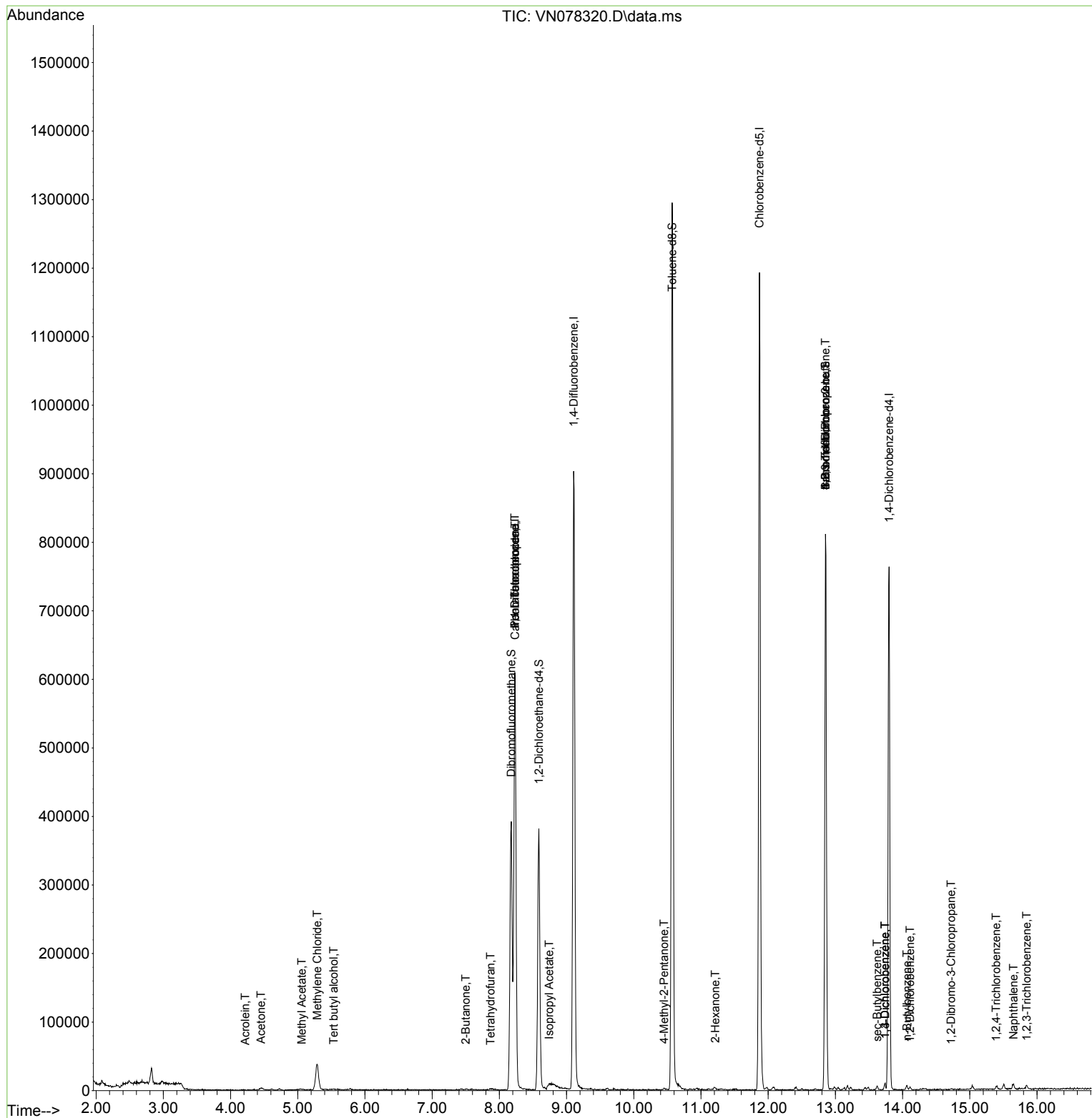
Internal Standards						
1) Pentafluorobenzene	8.229	168	436095	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	812117	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	705261	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	212421	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	306084	52.642	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.280%			
35) Dibromofluoromethane	8.177	113	281571	54.835	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.660%			
50) Toluene-d8	10.570	98	935998	47.283	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.560%			
62) 4-Bromofluorobenzene	12.853	95	292584	47.544	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.080%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1353	Below Cal		97
11) Tert butyl alcohol	5.536	59	252	0.314 ug/l #		72
13) Acrolein	4.218	56	403	0.455 ug/l #		16
16) Acetone	4.453	43	6271	3.747 ug/l		99
18) Methyl Acetate	5.059	43	2612	0.339 ug/l #		48
20) Methylene Chloride	5.288	84	31045	5.613 ug/l #		95
25) 2-Butanone	7.500	43	839	0.326 ug/l #		37
29) Tetrahydrofuran	7.871	42	930	0.541 ug/l #		27
36) 1,1-Dichloropropene	8.229	75	37847	5.138 ug/l #		48
38) Carbon Tetrachloride	8.235	117	47796	6.146 ug/l #		17
43) Isopropyl Acetate	8.741	43	5288	0.481 ug/l #		49
51) 4-Methyl-2-Pentanone	10.453	43	1591	0.275 ug/l #		31
59) 2-Hexanone	11.212	43	2587	0.641 ug/l		78
71) Bromoform	12.853	173	2349	0.655 ug/l #		1
75) 1,1,2,2-Tetrachloroethane	12.941	83	890	Below Cal #		94
76) 1,2,3-Trichloropropane	12.853	75	151746	30.218 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	151746	92.839 ug/l #		15
85) sec-Butylbenzene	13.623	105	3788	0.205 ug/l		95
87) 1,3-Dichlorobenzene	13.741	146	1846	0.234 ug/l		85
88) 1,4-Dichlorobenzene	13.741	146	1846	0.243 ug/l		87
89) n-Butylbenzene	14.064	91	3879	0.328 ug/l		92
91) 1,2-Dichlorobenzene	14.111	146	1570	0.204 ug/l #		83
92) 1,2-Dibromo-3-Chloropr...	14.723	75	312	0.314 ug/l		82
93) 1,2,4-Trichlorobenzene	15.394	180	2030	0.739 ug/l		86
94) Hexachlorobutadiene	15.511	225	1488	Below Cal		92
95) Naphthalene	15.653	128	6648	0.720 ug/l #		93
96) 1,2,3-Trichlorobenzene	15.847	180	2517	0.819 ug/l		80

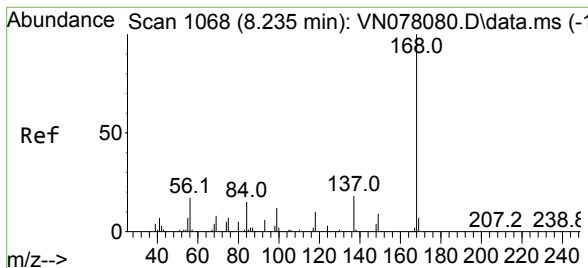
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 07 05:05:00 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN078320.D

Acq: 21 Jun 2023 14:22

Instrument :

MSVOA_N

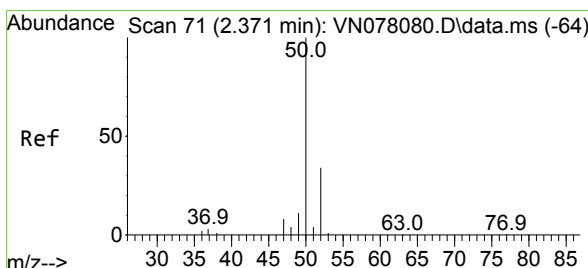
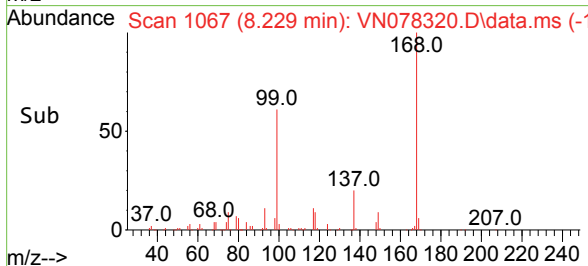
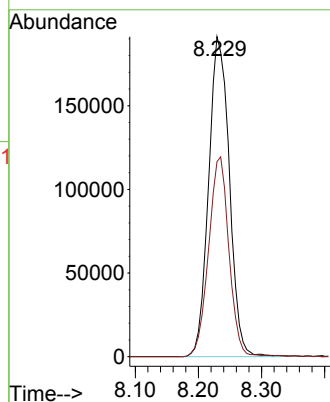
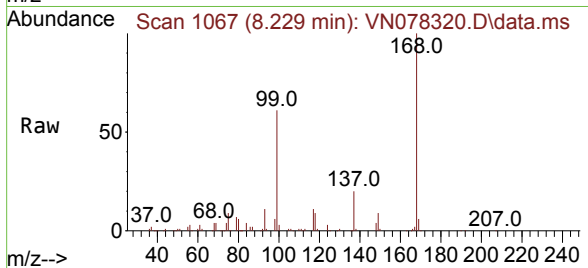
ClientSampleId :

Tgt Ion:168 Resp: 436095

Ion Ratio Lower Upper

168 100

99 61.0 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078320.D

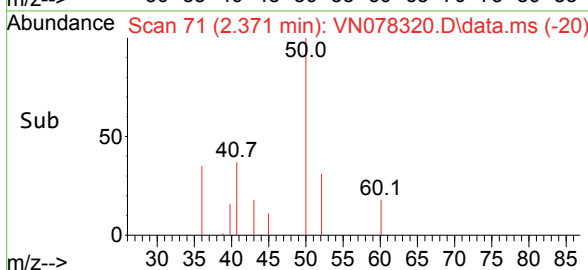
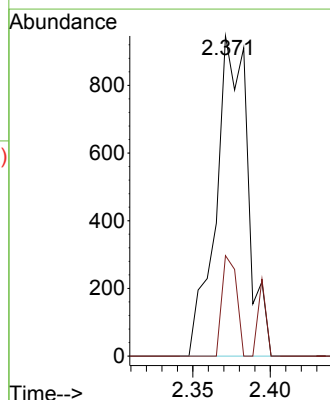
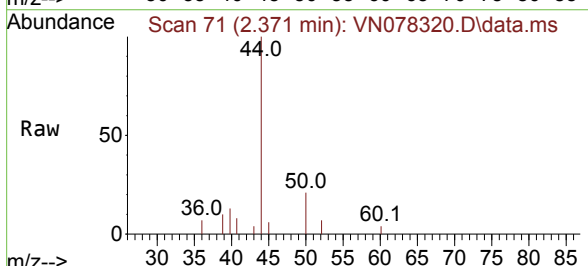
Acq: 21 Jun 2023 14:22

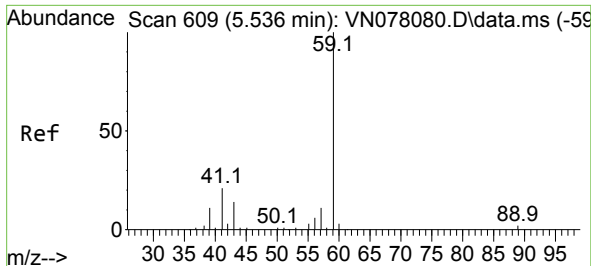
Tgt Ion: 50 Resp: 1353

Ion Ratio Lower Upper

50 100

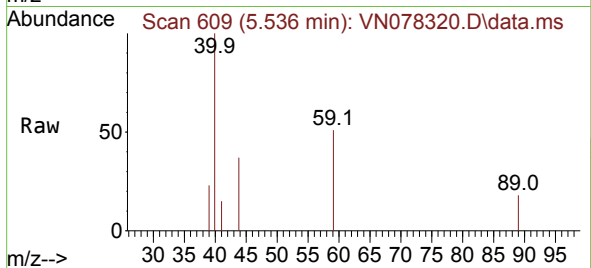
52 31.4 26.5 39.7



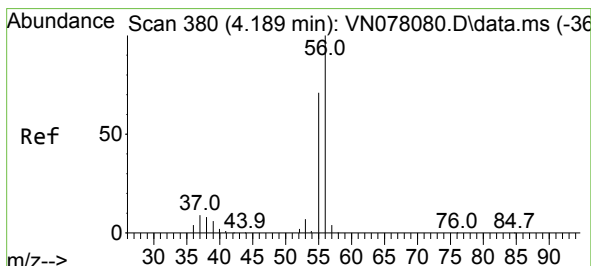
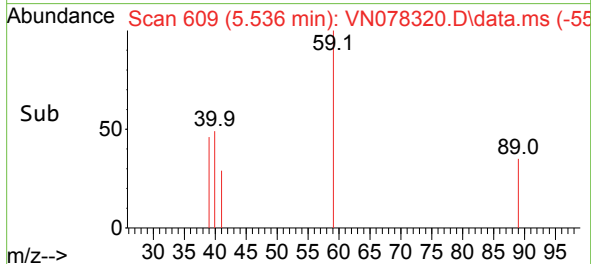
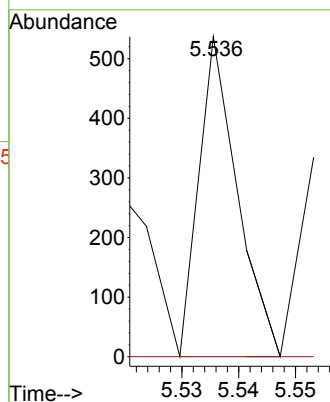


#11
Tert butyl alcohol
Concen: 0.314 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.000 min
Lab File: VN078320.D
Acq: 21 Jun 2023 14:22

Instrument :
MSVOA_N
ClientSampleId :

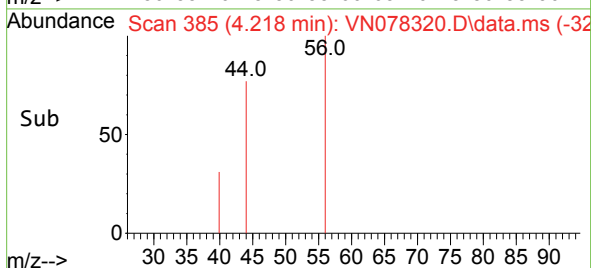
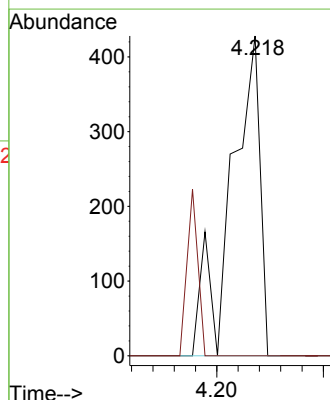
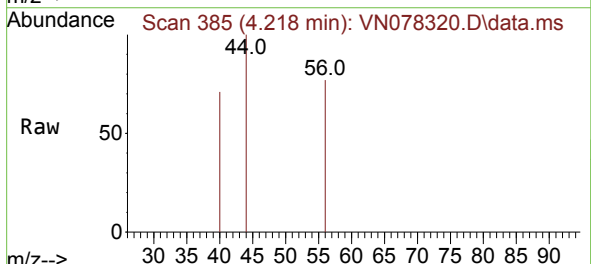


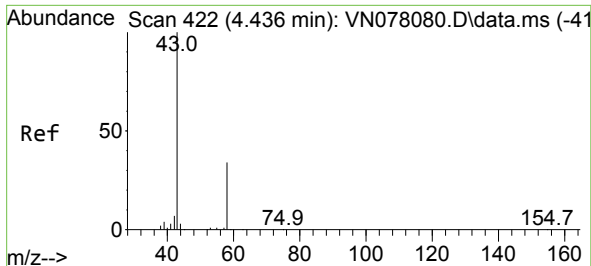
Tgt Ion: 59 Resp: 252
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.455 ug/l
RT: 4.218 min Scan# 385
Delta R.T. 0.029 min
Lab File: VN078320.D
Acq: 21 Jun 2023 14:22

Tgt Ion: 56 Resp: 403
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

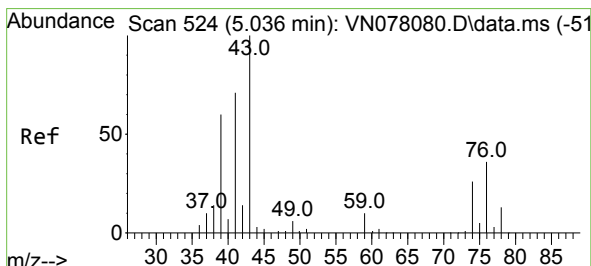
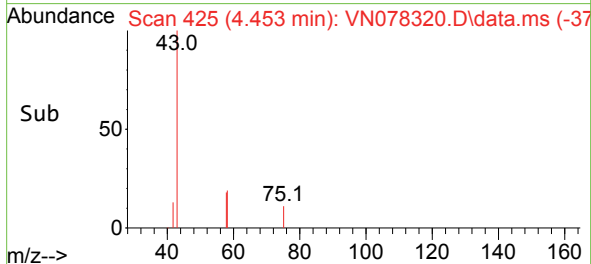
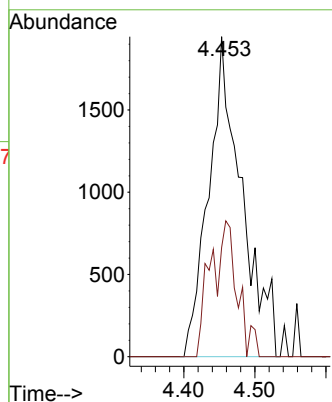
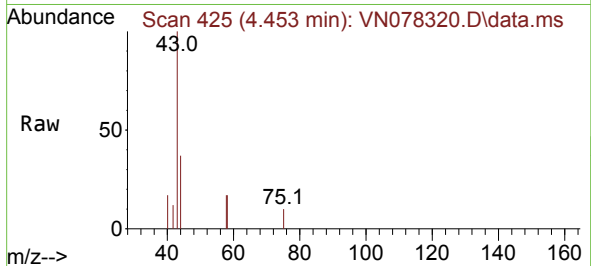




#16
Acetone
Concen: 3.747 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN078320.D
Acq: 21 Jun 2023 14:22

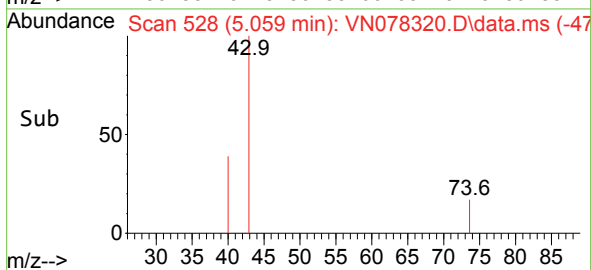
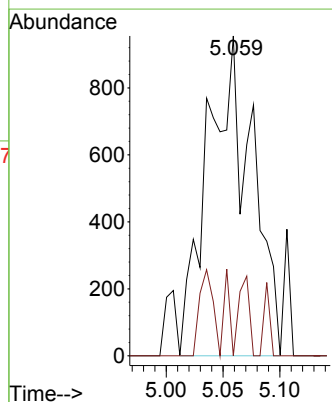
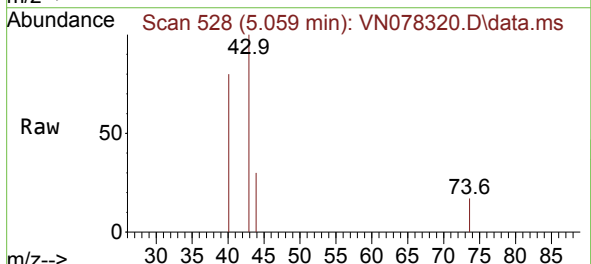
Instrument :
MSVOA_N
ClientSampleId :

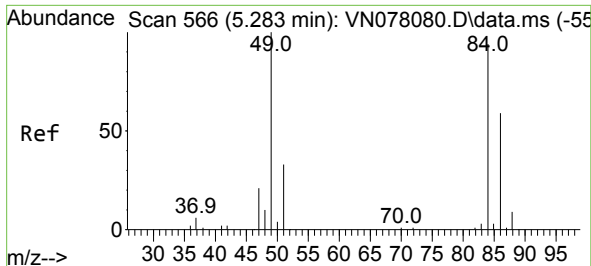
Tgt Ion: 43 Resp: 6271
Ion Ratio Lower Upper
43 100
58 34.2 28.0 42.0



#18
Methyl Acetate
Concen: 0.339 ug/l
RT: 5.059 min Scan# 528
Delta R.T. 0.023 min
Lab File: VN078320.D
Acq: 21 Jun 2023 14:22

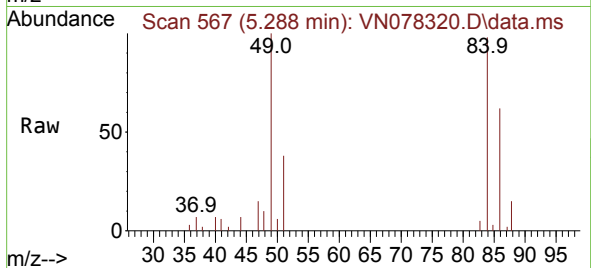
Tgt Ion: 43 Resp: 2612
Ion Ratio Lower Upper
43 100
74 3.5 26.2 39.4#



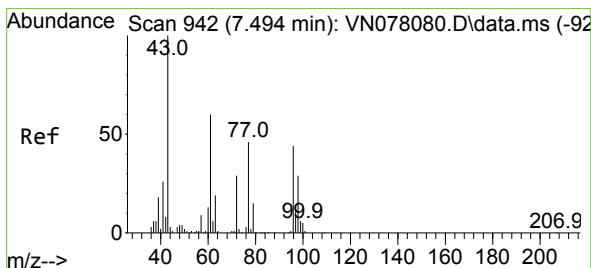
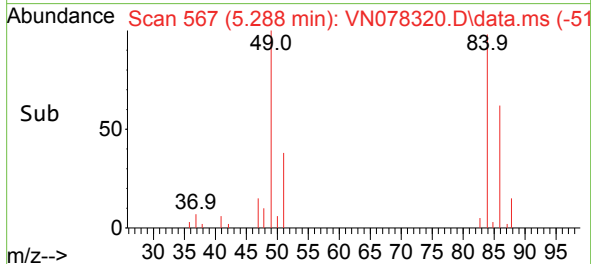
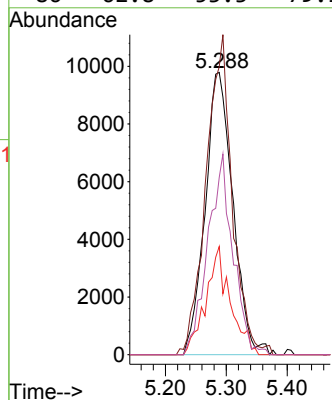


#20
Methylene Chloride
Concen: 5.613 ug/l
RT: 5.288 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078320.D
Acq: 21 Jun 2023 14:22

Instrument :
MSVOA_N
ClientSampleId :

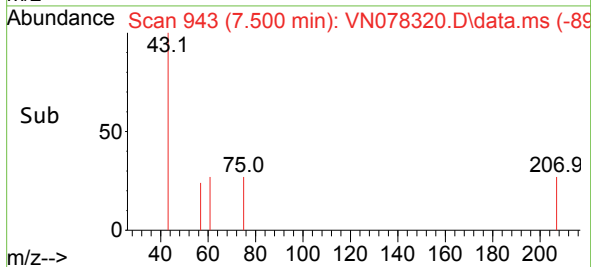
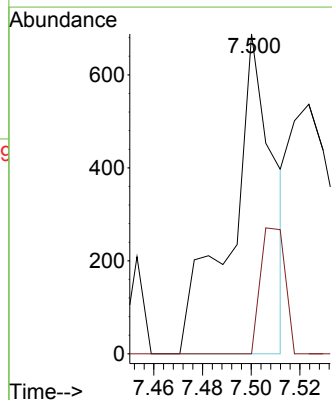
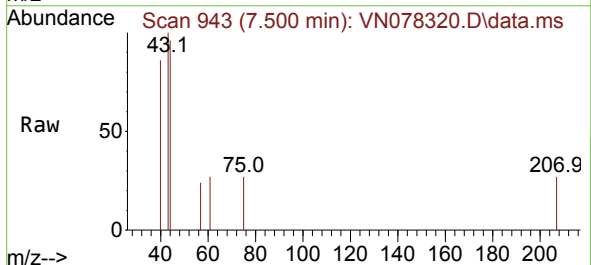


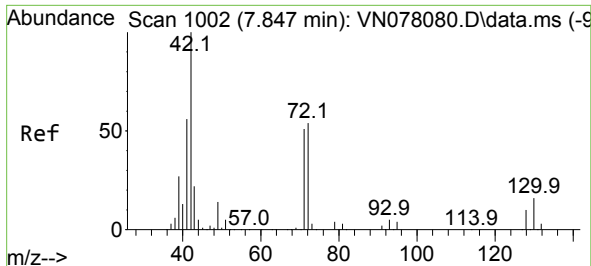
Tgt Ion:	84	Resp:	31045
Ion	Ratio	Lower	Upper
84	100		
49	102.0	79.7	119.5
51	38.3	25.2	37.8#
86	62.8	53.3	79.9



#25
2-Butanone
Concen: 0.326 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078320.D
Acq: 21 Jun 2023 14:22

Tgt Ion:	43	Resp:	839
Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.2	45.2#

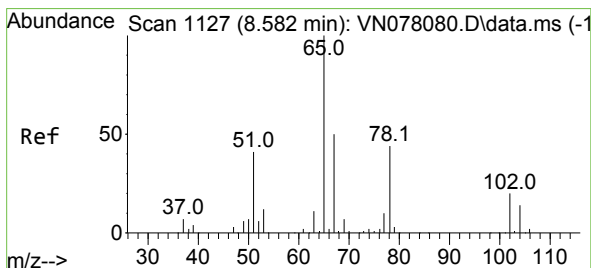
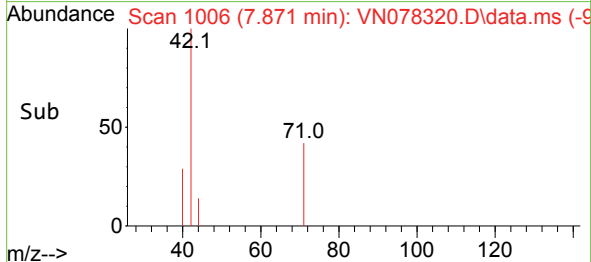
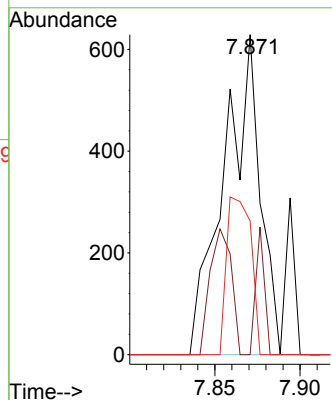
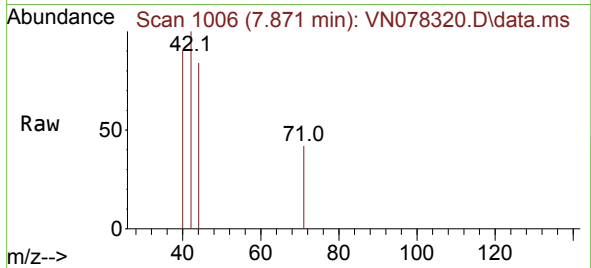




#29
Tetrahydrofuran
Concen: 0.541 ug/l
RT: 7.871 min Scan# 1006
Delta R.T. 0.023 min
Lab File: VN078320.D
Acq: 21 Jun 2023 14:22

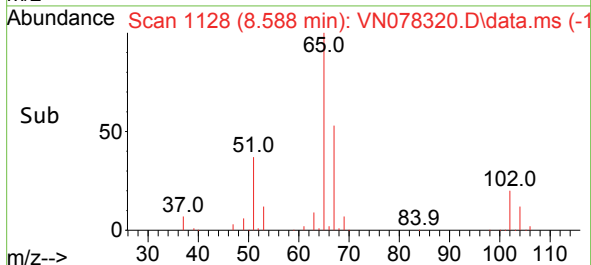
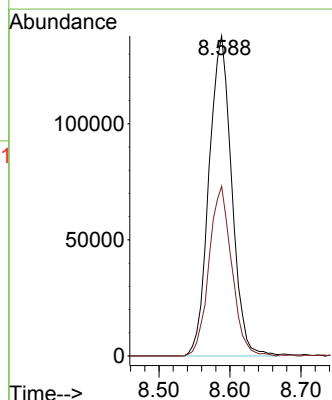
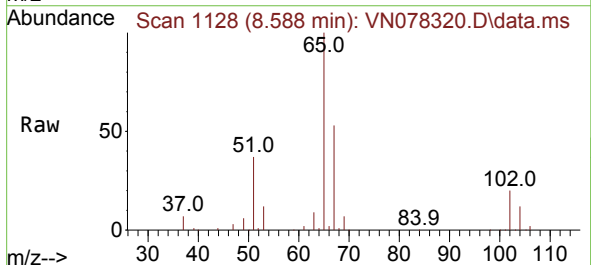
Instrument :
MSVOA_N
ClientSampleId :

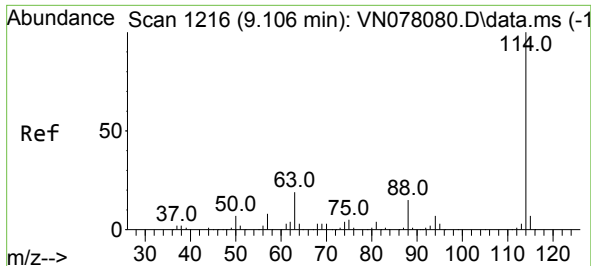
Tgt Ion: 42 Resp: 930
Ion Ratio Lower Upper
42 100
72 9.6 49.8 74.6#
71 0.0 47.4 71.2#



#33
1,2-Dichloroethane-d4
Concen: 52.642 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078320.D
Acq: 21 Jun 2023 14:22

Tgt Ion: 65 Resp: 306084
Ion Ratio Lower Upper
65 100
67 53.0 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN078320.D

Acq: 21 Jun 2023 14:22

Instrument :

MSVOA_N

ClientSampleId :

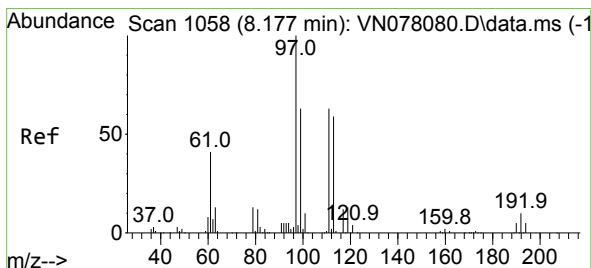
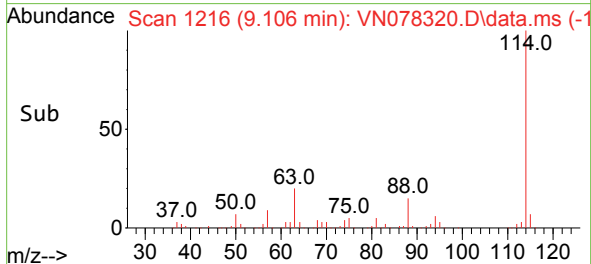
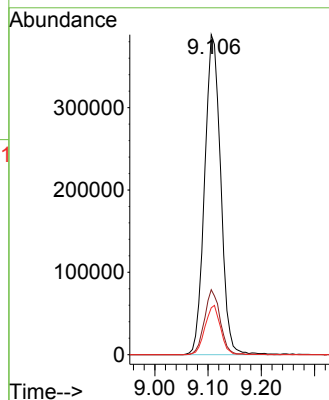
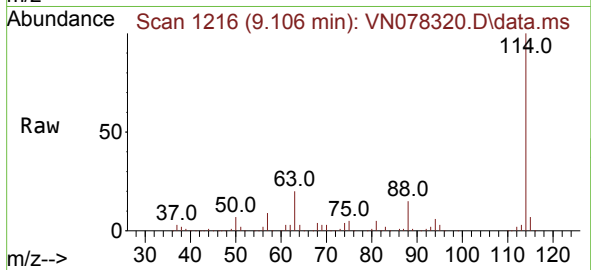
Tgt Ion:114 Resp: 812117

Ion Ratio Lower Upper

114 100

63 20.3 0.0 36.4

88 14.6 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.835 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN078320.D

Acq: 21 Jun 2023 14:22

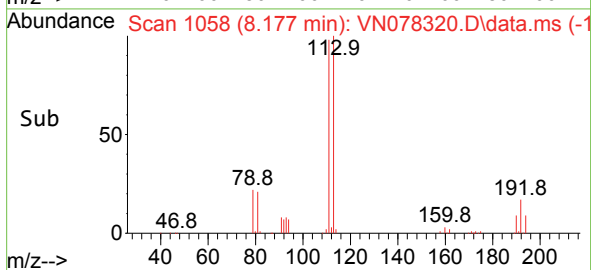
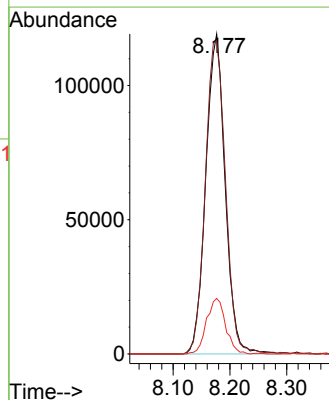
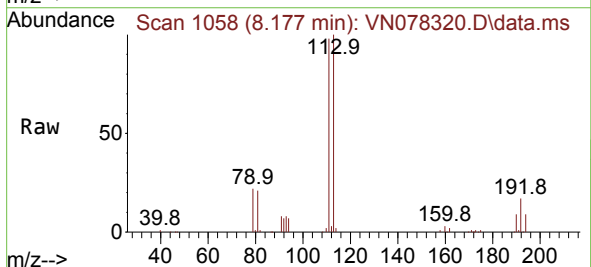
Tgt Ion:113 Resp: 281571

Ion Ratio Lower Upper

113 100

111 101.9 82.6 123.8

192 17.1 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.138 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.147 min

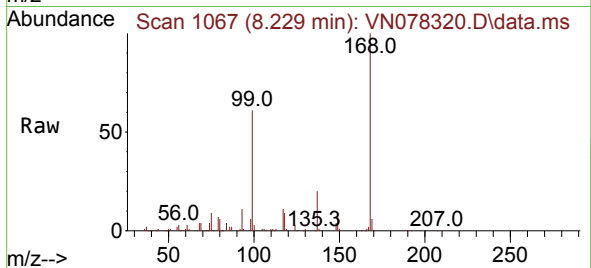
Lab File: VN078320.D

Acq: 21 Jun 2023 14:22

Instrument :

MSVOA_N

ClientSampleId :



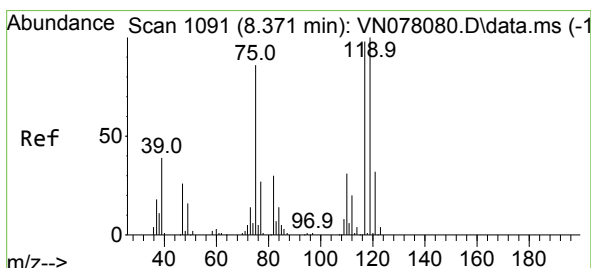
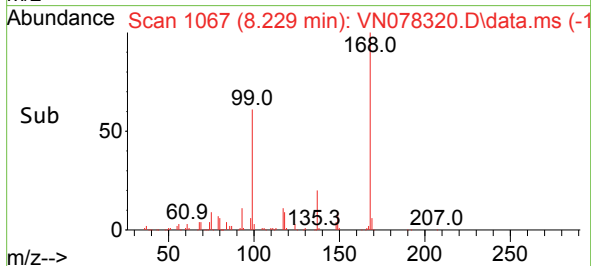
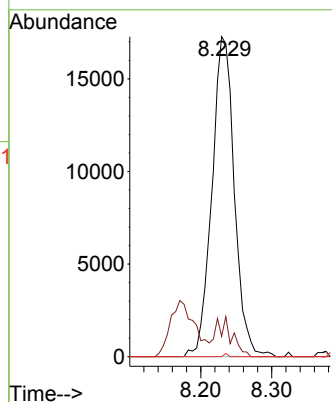
Tgt Ion: 75 Resp: 37847

Ion Ratio Lower Upper

75 100

110 8.8 19.1 57.3#

77 0.2 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.146 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.135 min

Lab File: VN078320.D

Acq: 21 Jun 2023 14:22

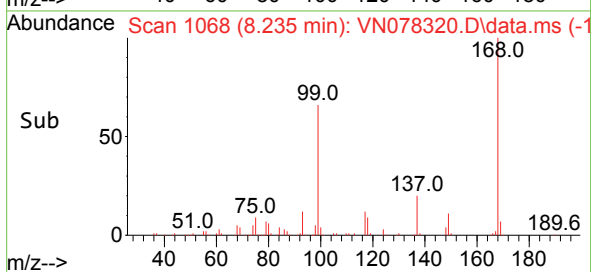
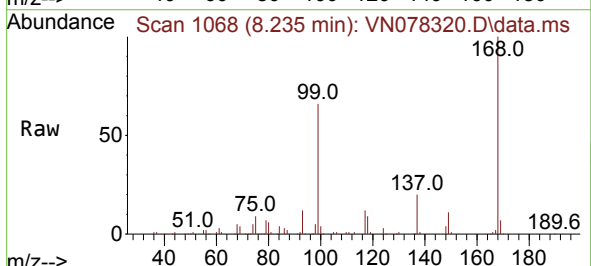
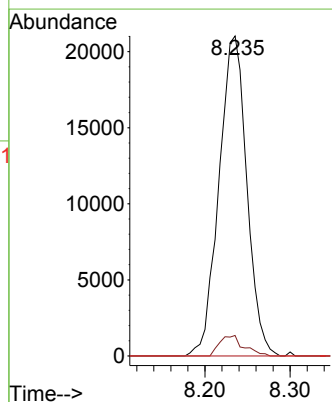
Tgt Ion: 117 Resp: 47796

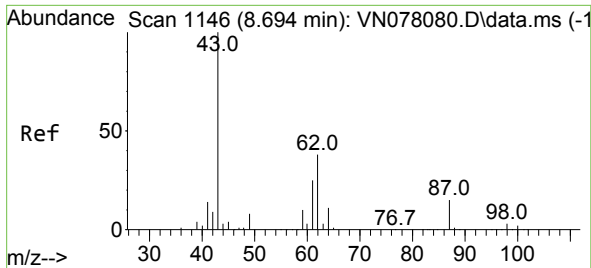
Ion Ratio Lower Upper

117 100

119 6.4 77.3 115.9#

121 0.0 23.3 34.9#

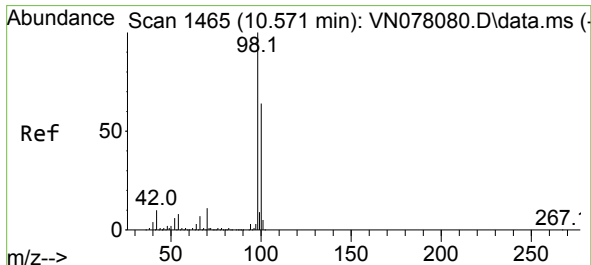
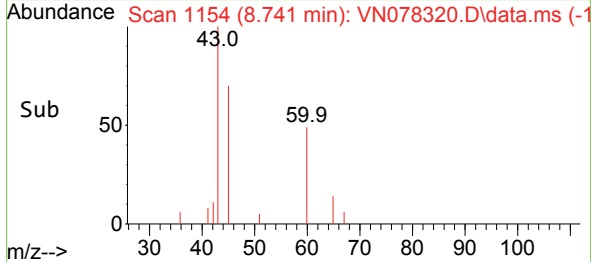
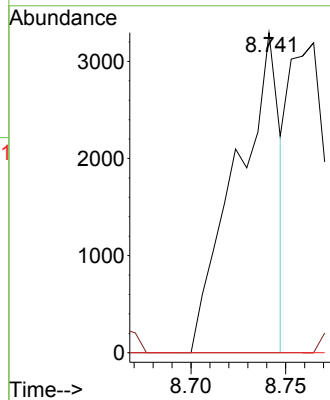
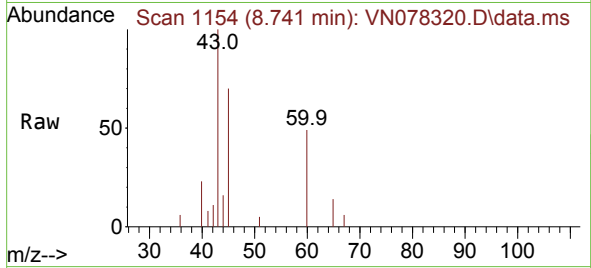




#43
Isopropyl Acetate
Concen: 0.481 ug/l
RT: 8.741 min Scan# 1146
Delta R.T. 0.047 min
Lab File: VN078320.D
Acq: 21 Jun 2023 14:22

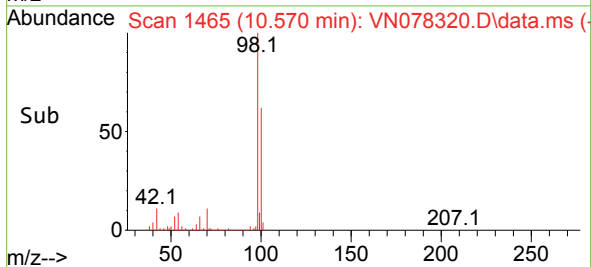
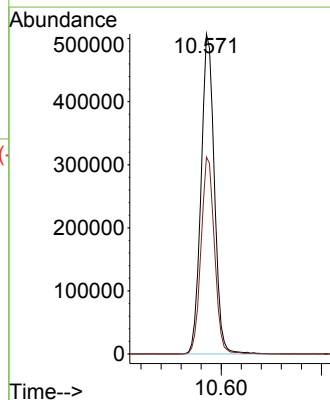
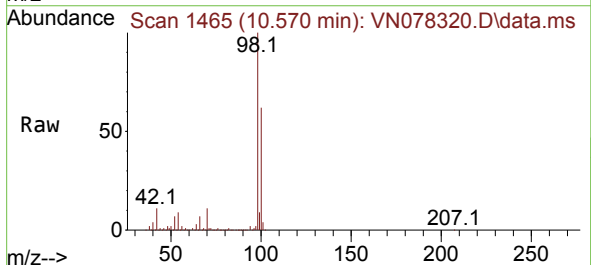
Instrument :
MSVOA_N
ClientSampleId :

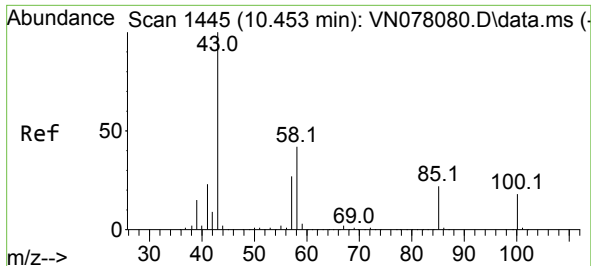
Tgt Ion: 43 Resp: 5288
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#50
Toluene-d8
Concen: 47.283 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078320.D
Acq: 21 Jun 2023 14:22

Tgt Ion: 98 Resp: 935998
Ion Ratio Lower Upper
98 100
100 62.1 52.0 78.0

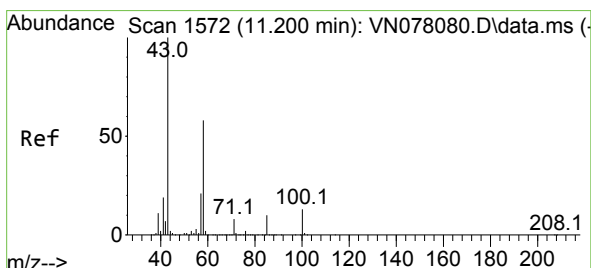
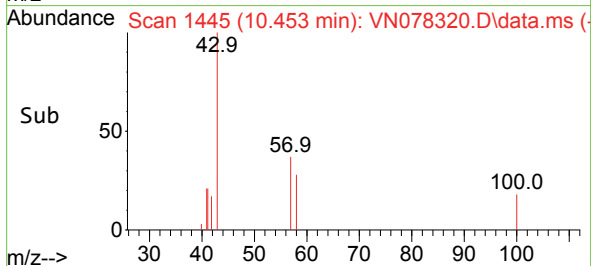
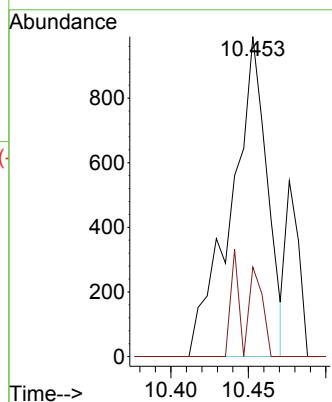
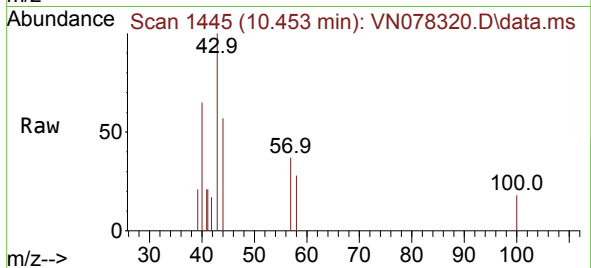




#51
4-Methyl-2-Pentanone
Concen: 0.275 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078320.D
Acq: 21 Jun 2023 14:22

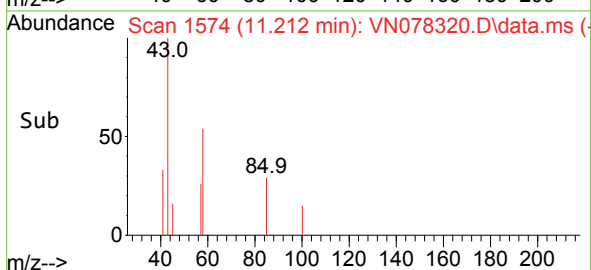
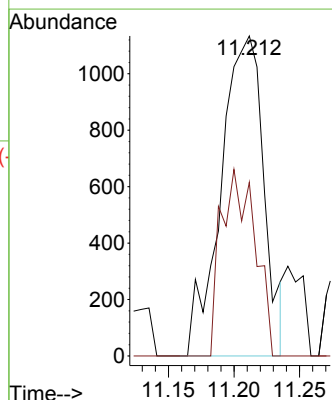
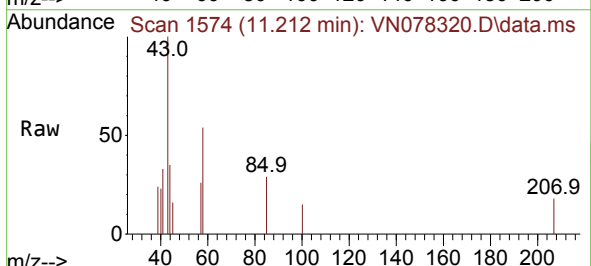
Instrument :
MSVOA_N
ClientSampleId :

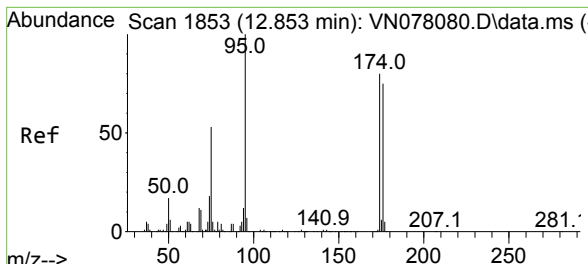
Tgt Ion: 43 Resp: 1591
Ion Ratio Lower Upper
43 100
58 0.0 36.6 54.8#



#59
2-Hexanone
Concen: 0.641 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN078320.D
Acq: 21 Jun 2023 14:22

Tgt Ion: 43 Resp: 2587
Ion Ratio Lower Upper
43 100
58 46.1 31.7 95.1

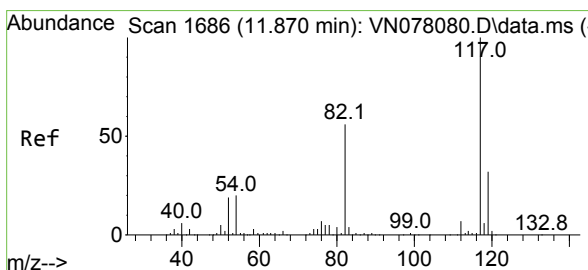
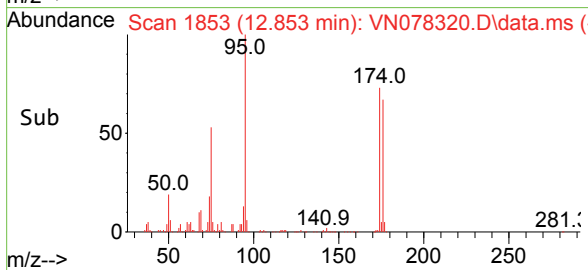
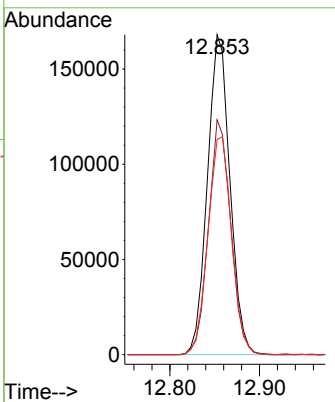
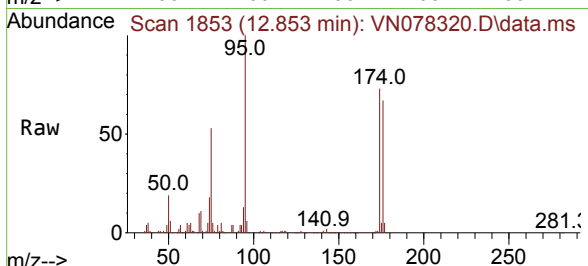




#62
 4-Bromofluorobenzene
 Concen: 47.544 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078320.D
 Acq: 21 Jun 2023 14:22

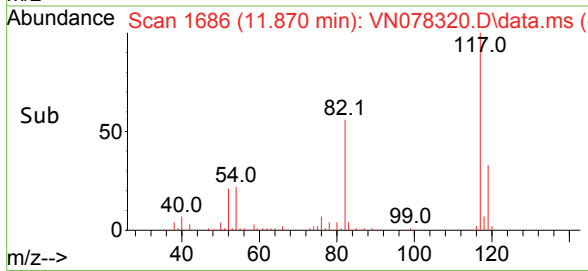
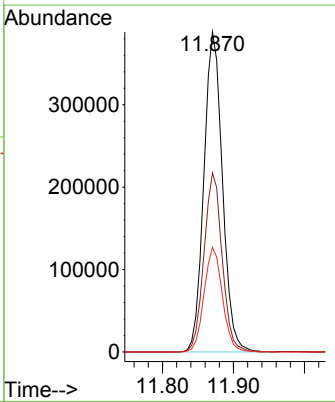
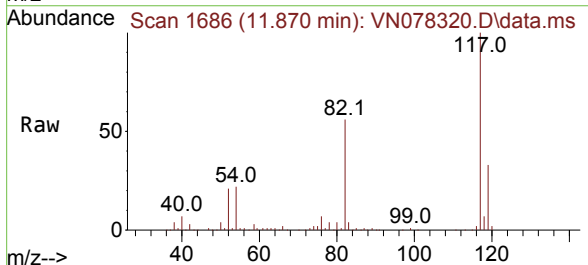
Instrument :
 MSVOA_N
 ClientSampleId :

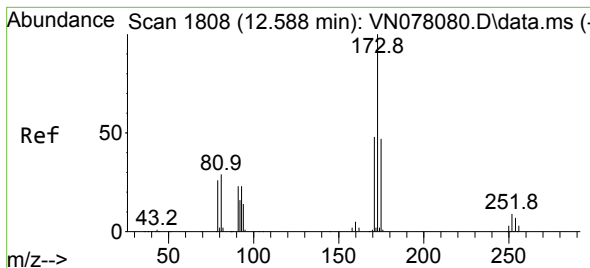
Tgt Ion:	95	Resp:	292584
Ion	Ratio	Lower	Upper
95	100		
174	72.7	0.0	143.8
176	71.4	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.870 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: VN078320.D
 Acq: 21 Jun 2023 14:22

Tgt Ion:	117	Resp:	705261
Ion	Ratio	Lower	Upper
117	100		
82	55.9	44.0	66.0
119	32.7	25.6	38.4





#71

Bromoform

Concen: 0.655 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.265 min

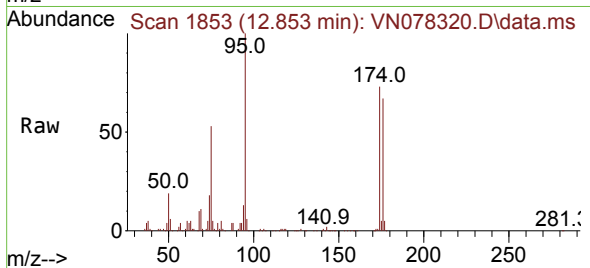
Lab File: VN078320.D

Acq: 21 Jun 2023 14:22

Instrument :

MSVOA_N

ClientSampleId :



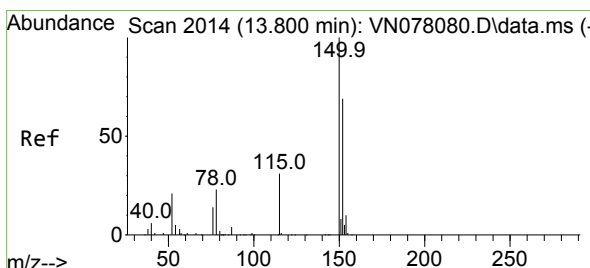
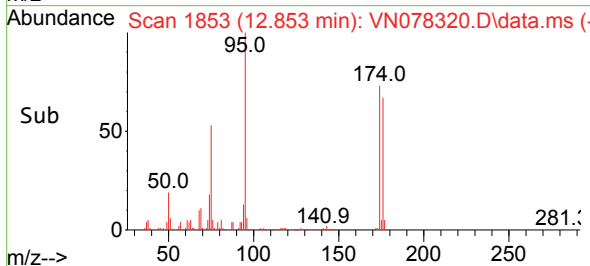
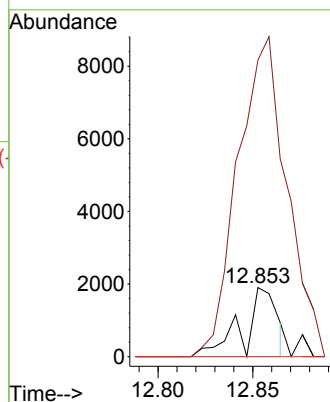
Tgt Ion:173 Resp: 2349

Ion Ratio Lower Upper

173 100

175 561.7 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: VN078320.D

Acq: 21 Jun 2023 14:22

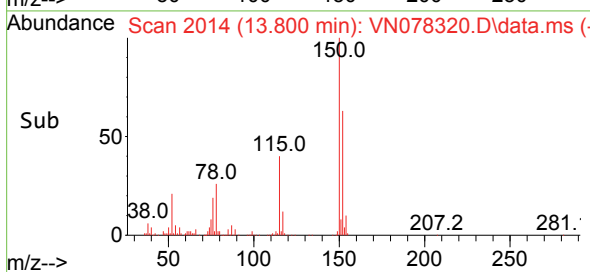
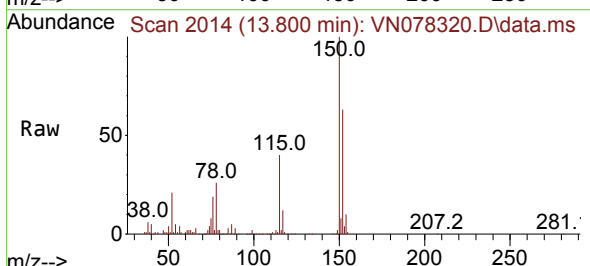
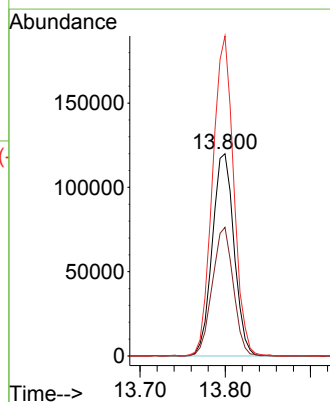
Tgt Ion:152 Resp: 212421

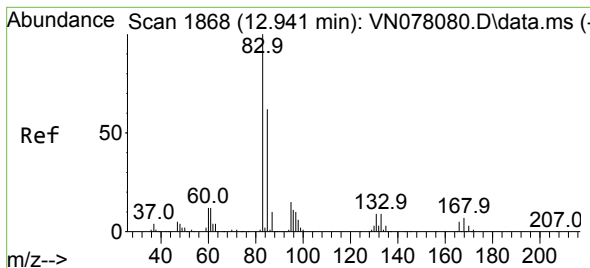
Ion Ratio Lower Upper

152 100

115 61.6 32.3 96.8

150 153.6 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: VN078320.D

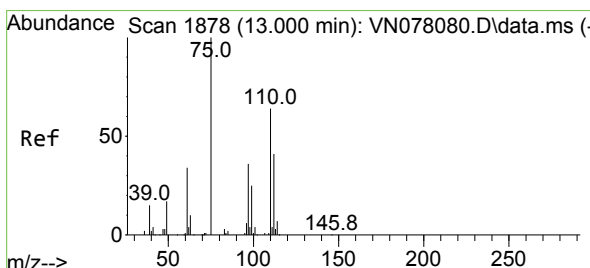
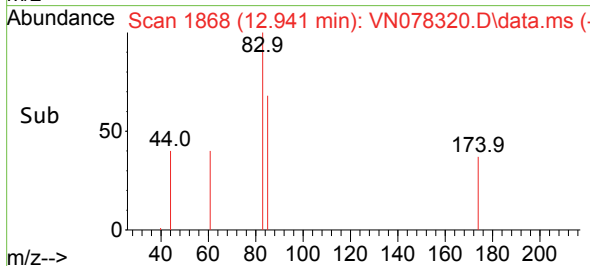
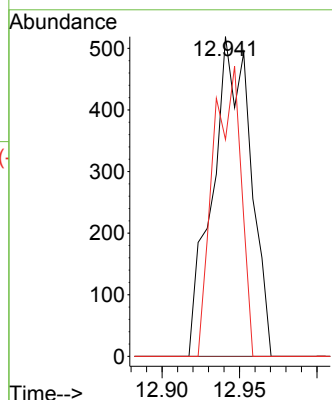
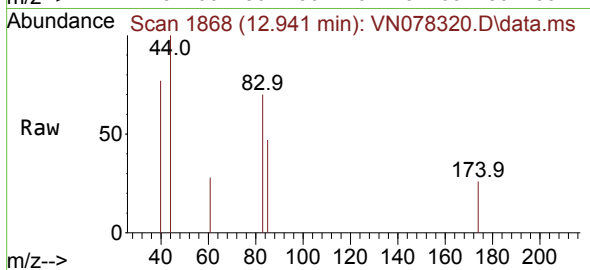
Acq: 21 Jun 2023 14:22

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 83 Resp: 890
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.0 15.0#
 85 65.7 31.9 95.7



#76

1,2,3-Trichloropropane

Concen: 30.218 ug/l

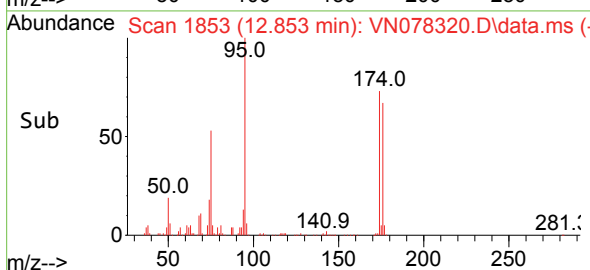
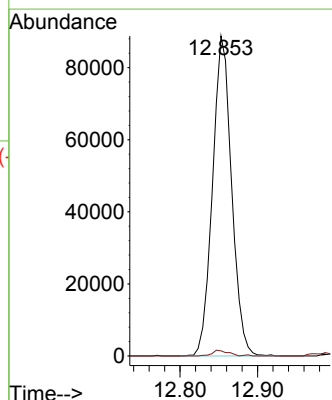
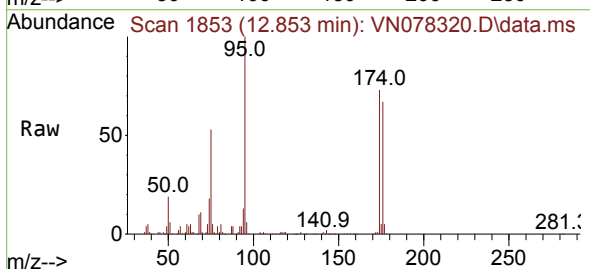
RT: 12.853 min Scan# 1853

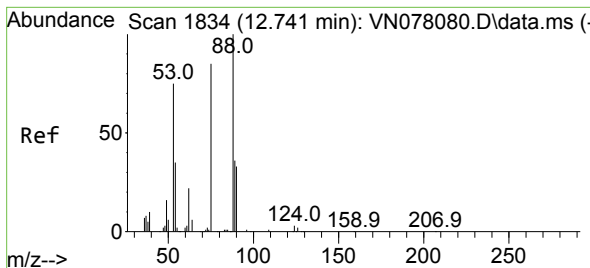
Delta R.T. -0.147 min

Lab File: VN078320.D

Acq: 21 Jun 2023 14:22

Tgt Ion: 75 Resp: 151746
 Ion Ratio Lower Upper
 75 100
 77 1.5 84.5 253.5#

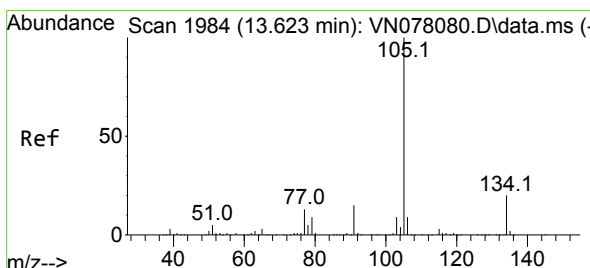
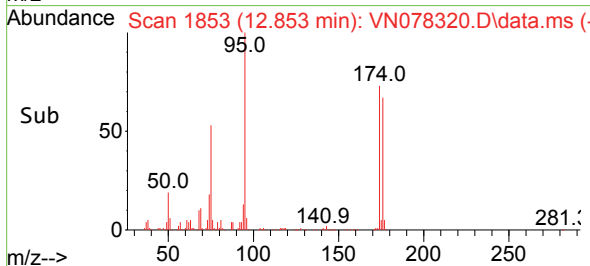
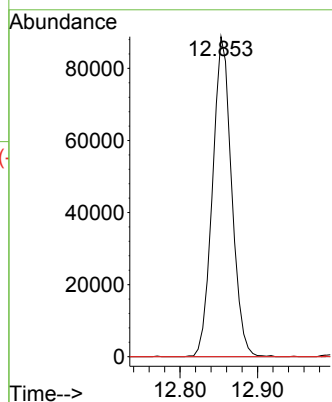
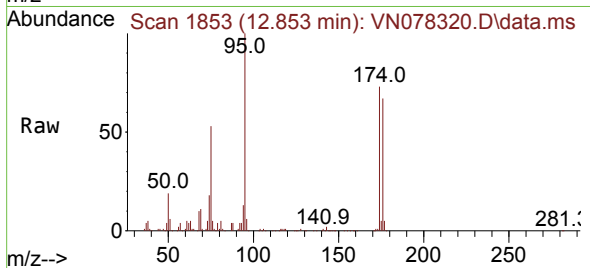




#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.839 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN078320.D
 Acq: 21 Jun 2023 14:22

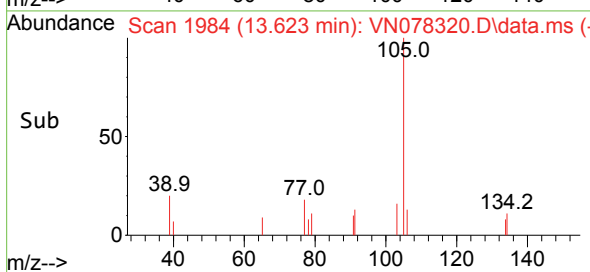
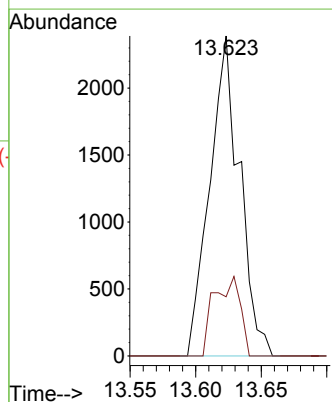
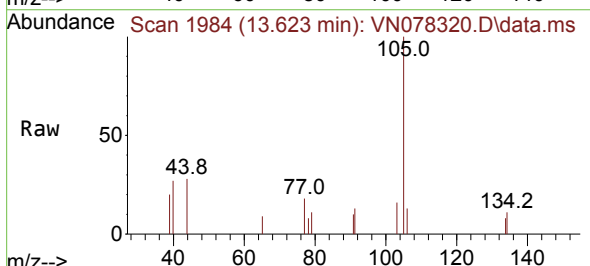
Instrument :
 MSVOA_N
 ClientSampleId :

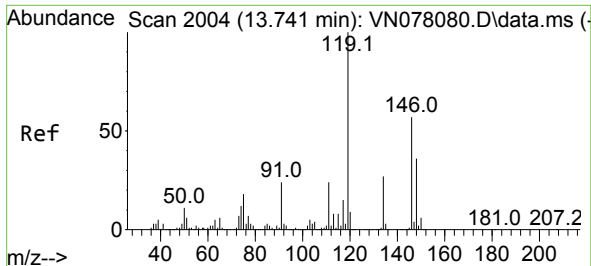
Tgt Ion: 75 Resp: 151746
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#



#85
 sec-Butylbenzene
 Concen: 0.205 ug/l
 RT: 13.623 min Scan# 1984
 Delta R.T. -0.000 min
 Lab File: VN078320.D
 Acq: 21 Jun 2023 14:22

Tgt Ion: 105 Resp: 3788
 Ion Ratio Lower Upper
 105 100
 134 21.7 9.8 29.3





#87

1,3-Dichlorobenzene

Concen: 0.234 ug/l

RT: 13.741 min Scan# 2004

Delta R.T. -0.000 min

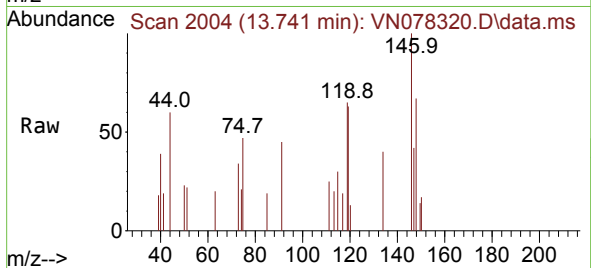
Lab File: VN078320.D

Acq: 21 Jun 2023 14:22

Instrument :

MSVOA_N

ClientSampleId :



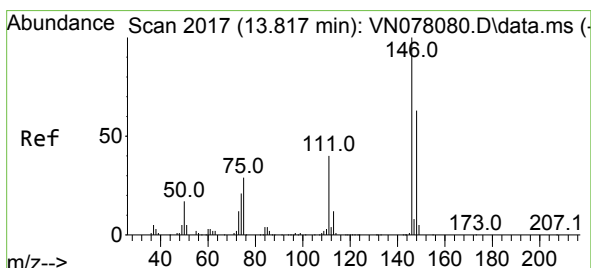
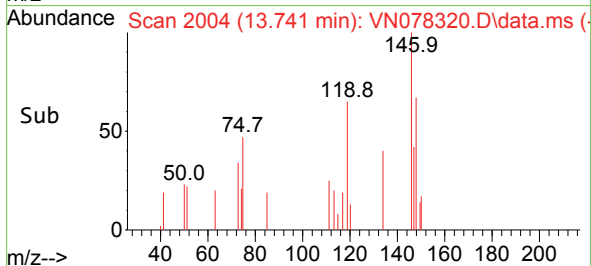
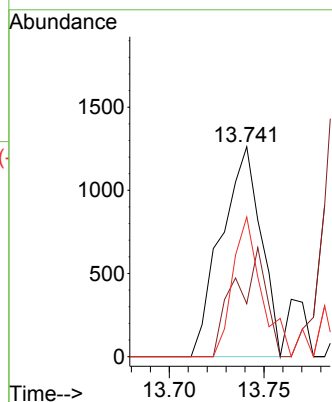
Tgt Ion:146 Resp: 1846

Ion Ratio Lower Upper

146 100

111 40.1 22.1 66.3

148 47.9 32.0 96.0



#88

1,4-Dichlorobenzene

Concen: 0.243 ug/l

RT: 13.741 min Scan# 2004

Delta R.T. -0.077 min

Lab File: VN078320.D

Acq: 21 Jun 2023 14:22

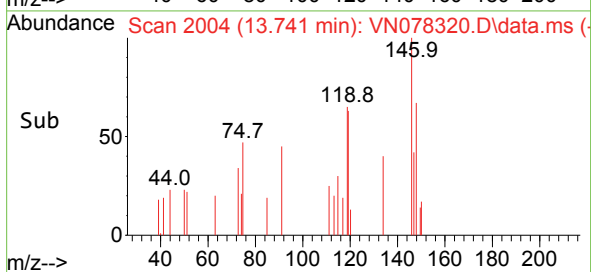
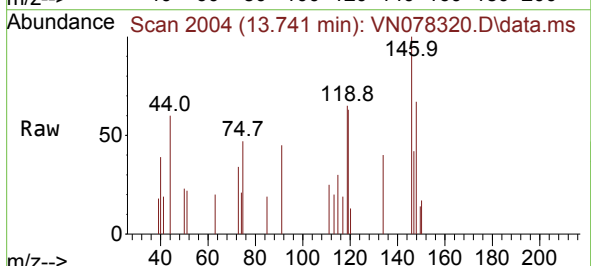
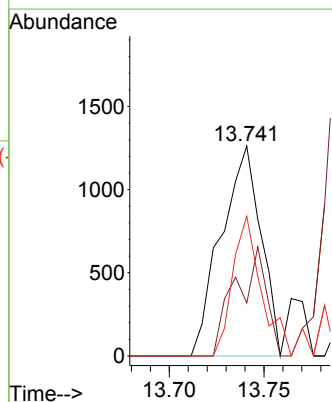
Tgt Ion:146 Resp: 1846

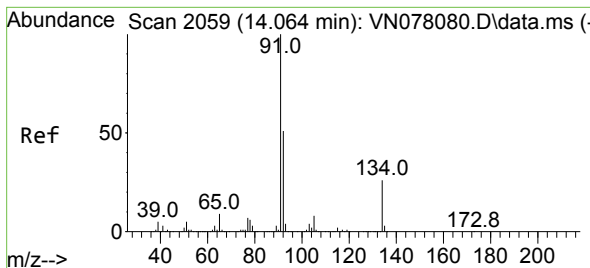
Ion Ratio Lower Upper

146 100

111 40.1 20.6 61.8

148 47.9 31.6 94.8





#89

n-Butylbenzene

Concen: 0.328 ug/l

RT: 14.064 min Scan# 2059

Delta R.T. -0.000 min

Lab File: VN078320.D

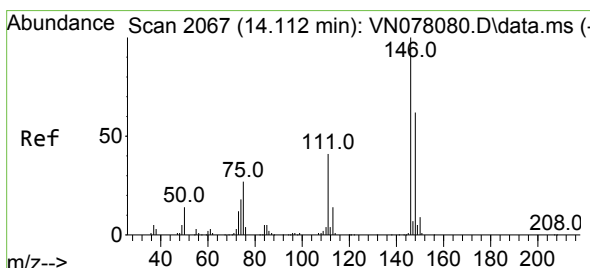
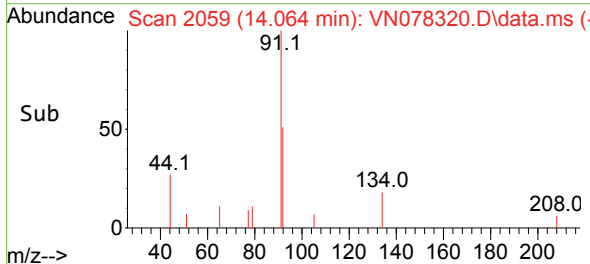
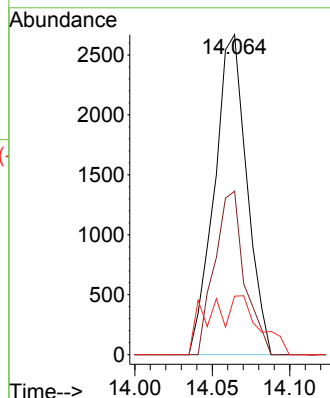
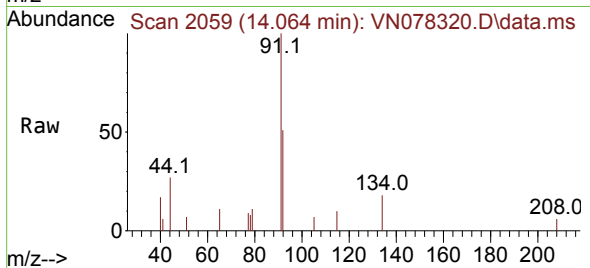
Acq: 21 Jun 2023 14:22

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 91	Resp:	3879
Ion	Ratio	Lower Upper
91	100	
92	47.2	26.4 79.0
134	28.8	12.6 37.6



#91

1,2-Dichlorobenzene

Concen: 0.204 ug/l

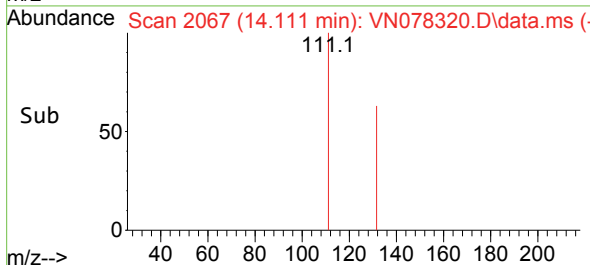
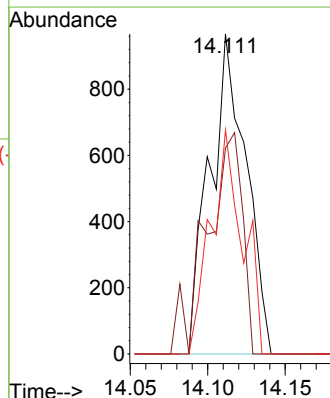
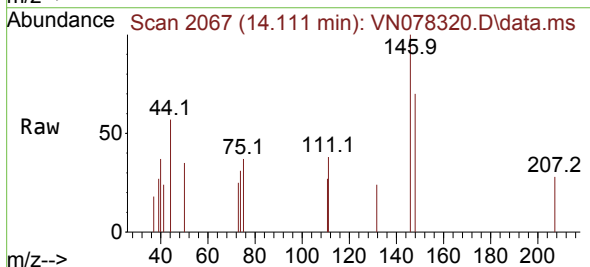
RT: 14.111 min Scan# 2067

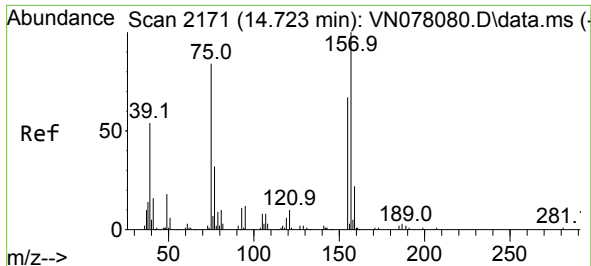
Delta R.T. -0.000 min

Lab File: VN078320.D

Acq: 21 Jun 2023 14:22

Tgt Ion: 146	Resp:	1570
Ion	Ratio	Lower Upper
146	100	
111	68.3	22.0 66.0#
148	61.3	31.8 95.3

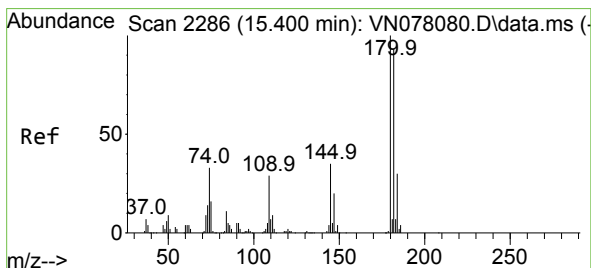
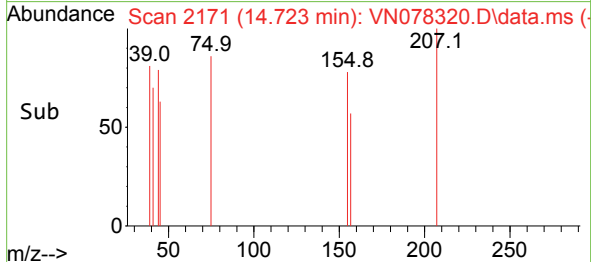
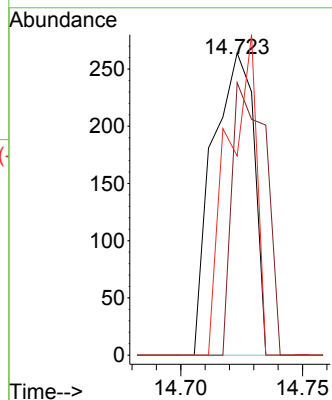
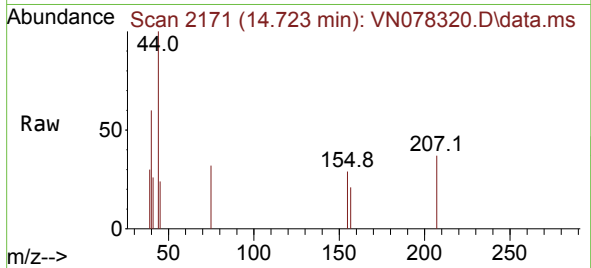




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.314 ug/l
 RT: 14.723 min Scan# 2171
 Delta R.T. -0.000 min
 Lab File: VN078320.D
 Acq: 21 Jun 2023 14:22

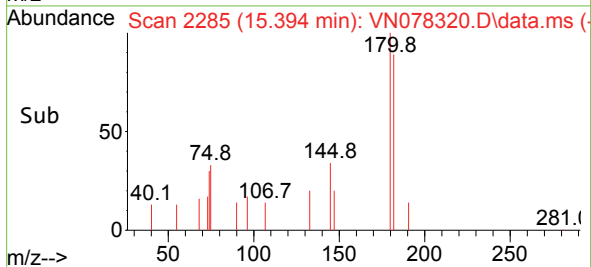
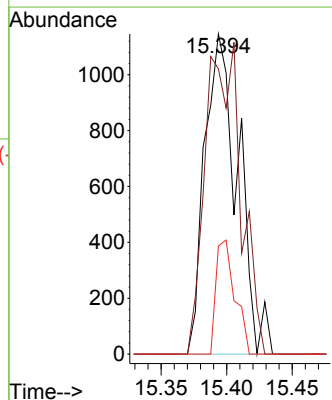
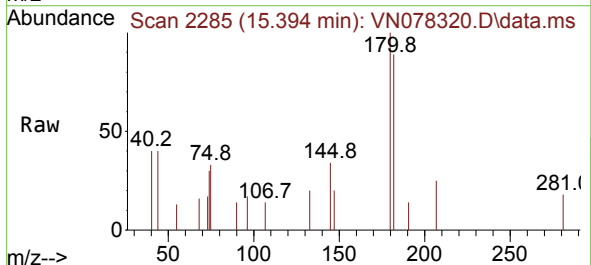
Instrument :
 MSVOA_N
 ClientSampleId :

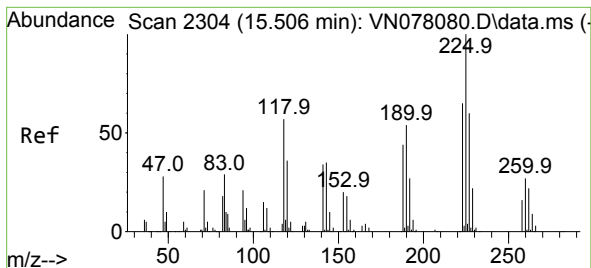
Tgt Ion: 75 Resp: 312
 Ion Ratio Lower Upper
 75 100
 155 73.1 39.1 117.2
 157 73.7 50.3 150.9



#93
 1,2,4-Trichlorobenzene
 Concen: 0.739 ug/l
 RT: 15.394 min Scan# 2285
 Delta R.T. -0.006 min
 Lab File: VN078320.D
 Acq: 21 Jun 2023 14:22

Tgt Ion: 180 Resp: 2030
 Ion Ratio Lower Upper
 180 100
 182 102.6 46.1 138.2
 145 20.1 16.6 49.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.511 min Scan# 21

Delta R.T. 0.005 min

Lab File: VN078320.D

Acq: 21 Jun 2023 14:22

Instrument :

MSVOA_N

ClientSampleId :

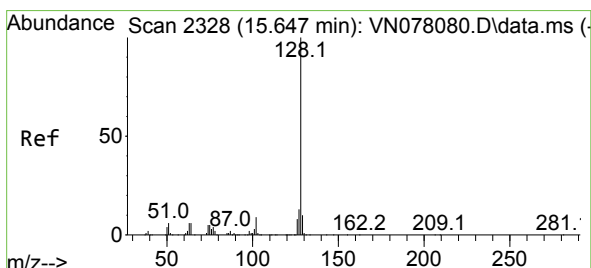
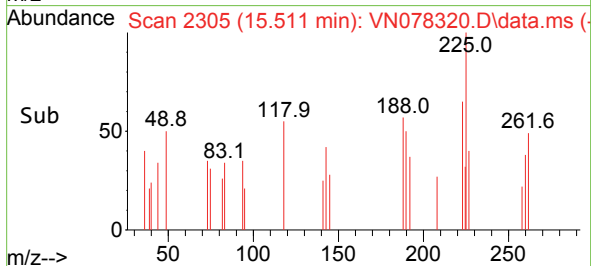
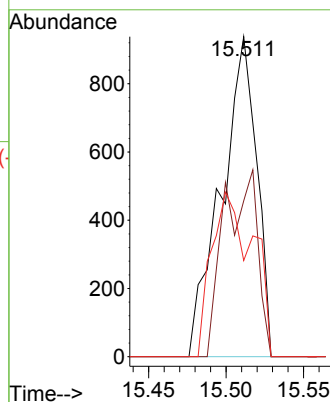
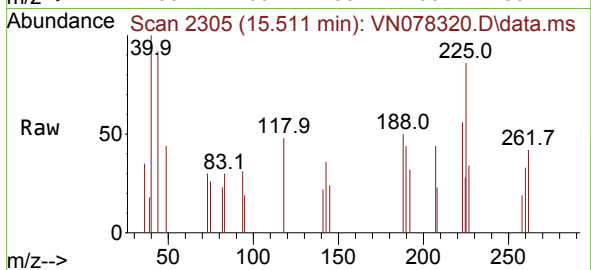
Tgt Ion:225 Resp: 1488

Ion Ratio Lower Upper

225 100

223 54.7 31.3 93.8

227 59.7 31.9 95.9



#95

Naphthalene

Concen: 0.720 ug/l

RT: 15.653 min Scan# 2329

Delta R.T. 0.006 min

Lab File: VN078320.D

Acq: 21 Jun 2023 14:22

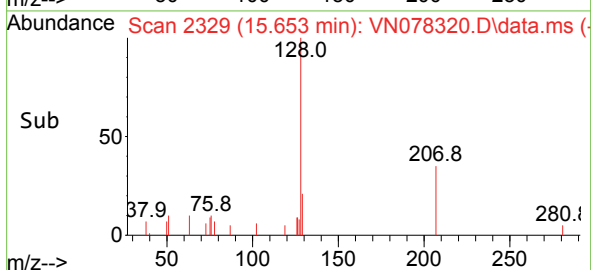
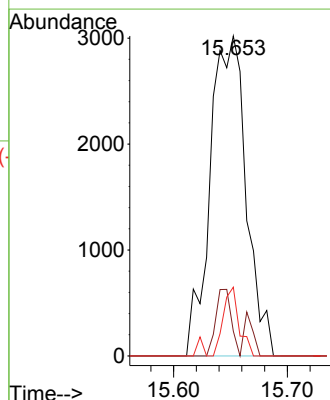
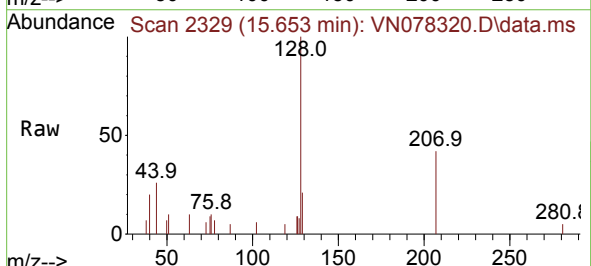
Tgt Ion:128 Resp: 6648

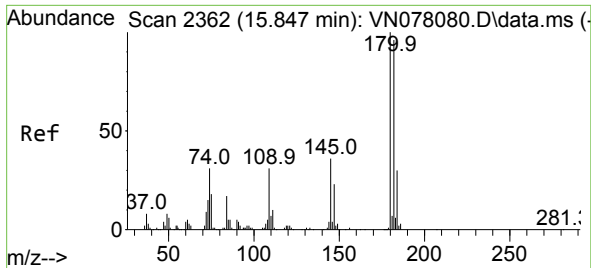
Ion Ratio Lower Upper

128 100

127 9.0 10.0 15.0#

129 9.5 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.819 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN078320.D
 Acq: 21 Jun 2023 14:22

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion:180 Resp: 2517
 Ion Ratio Lower Upper
 180 100
 182 70.8 46.2 138.6
 145 26.9 17.5 52.6

