

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061223\
 Data File : VN078172.D
 Acq On : 12 Jun 2023 17:30
 Operator : JC\MD
 Sample : 03140-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6-GA

Quant Time: Jun 13 01:35:40 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)

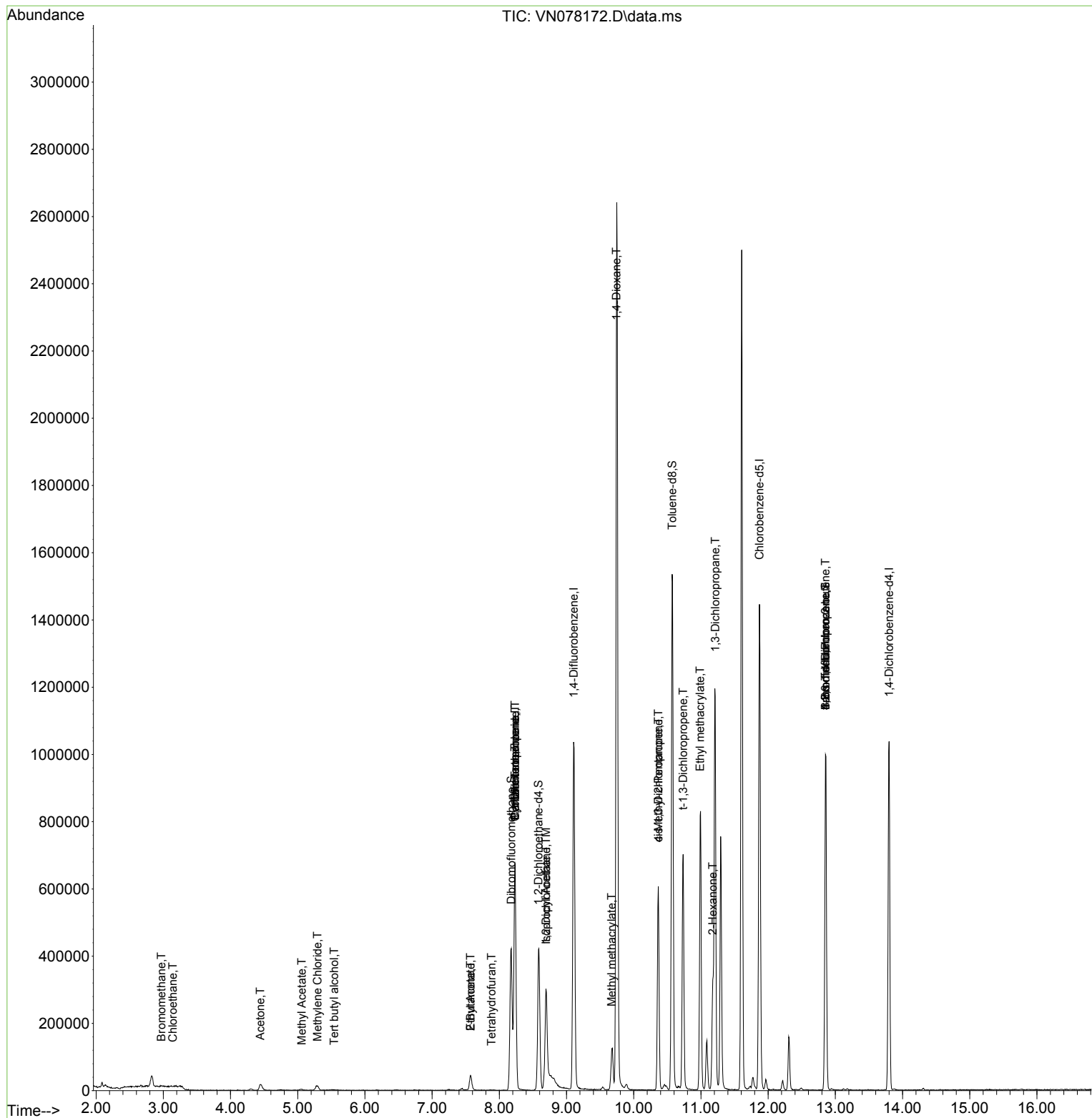
Internal Standards						
1) Pentafluorobenzene	8.236	168	481678	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	916101	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	851676	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	284222	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	346569	53.964	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.920%			
35) Dibromofluoromethane	8.177	113	305603	52.759	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.520%			
50) Toluene-d8	10.571	98	1114918	49.929	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.860%			
62) 4-Bromofluorobenzene	12.853	95	361014	52.005	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.000%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1111	Below Cal	#	80
5) Bromomethane	2.971	94	1239	0.230	ug/l	81
6) Chloroethane	3.142	64	1294	0.266	ug/l #	43
11) Tert butyl alcohol	5.542	59	569	0.642	ug/l #	72
16) Acetone	4.442	43	35285	19.088	ug/l #	84
18) Methyl Acetate	5.059	43	5449	0.640	ug/l	89
20) Methylene Chloride	5.295	84	11004	1.801	ug/l	93
25) 2-Butanone	7.571	43	67006	23.571	ug/l #	37
29) Tetrahydrofuran	7.883	42	1009	0.531	ug/l #	49
31) Cyclohexane	8.230	56	12119	1.471	ug/l #	34
36) 1,1-Dichloropropene	8.236	75	41106	4.947	ug/l #	49
37) Ethyl Acetate	7.571	43	67006	10.324	ug/l	96
38) Carbon Tetrachloride	8.236	117	54501	6.212	ug/l #	14
42) 1,2-Dichloroethane	8.694	62	2157	0.254	ug/l #	73
43) Isopropyl Acetate	8.694	43	360495	29.042	ug/l #	78
48) Methyl methacrylate	9.671	41	7920	1.520	ug/l #	32
49) 1,4-Dioxane	9.741	88	286	2.612	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	218763	33.468	ug/l #	41
53) t-1,3-Dichloropropene	10.735	75	2243	0.255	ug/l #	66
54) cis-1,3-Dichloropropene	10.365	75	111921	11.514	ug/l #	70
56) Ethyl methacrylate	10.988	69	3451	0.400	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	13148	1.315	ug/l #	42
59) 2-Hexanone	11.177	43	242817	53.351	ug/l #	19
71) Bromoform	12.853	173	1576	0.364	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.859	83	393	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	194379	28.929	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	194379	88.880	ug/l #	15

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN078172.D

Acq: 12 Jun 2023 17:30

Instrument :

MSVOA_N

ClientSampleId :

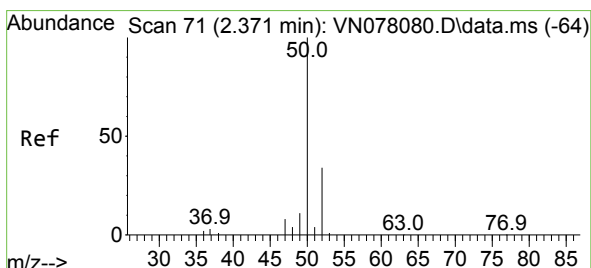
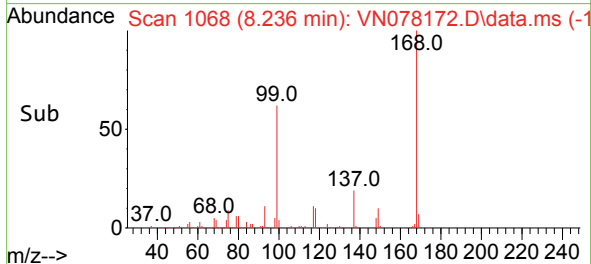
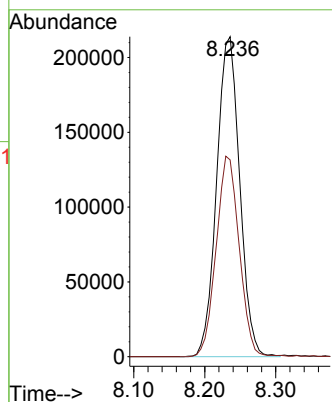
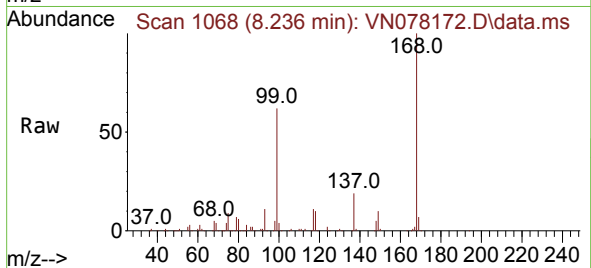
TP-6-GA

Tgt Ion:168 Resp: 481678

Ion Ratio Lower Upper

168 100

99 61.5 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.365 min Scan# 70

Delta R.T. -0.006 min

Lab File: VN078172.D

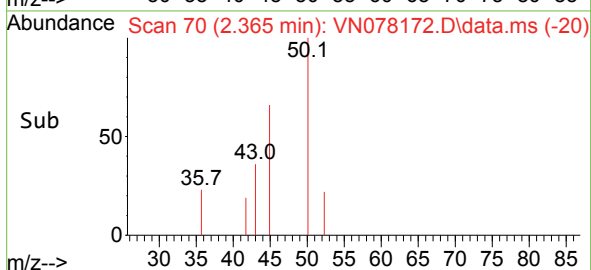
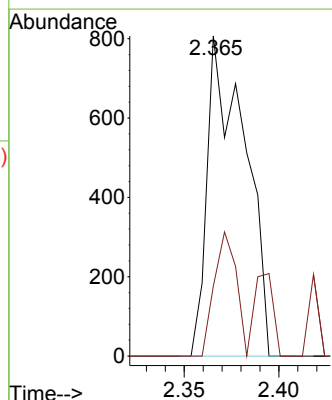
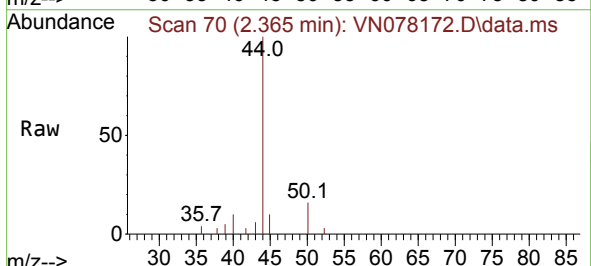
Acq: 12 Jun 2023 17:30

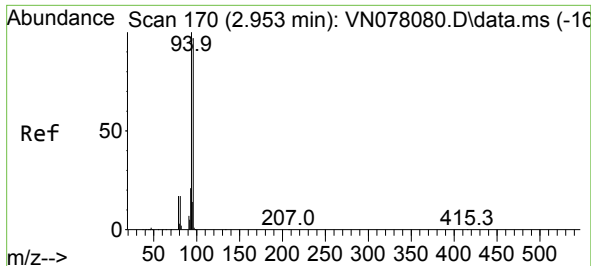
Tgt Ion: 50 Resp: 1111

Ion Ratio Lower Upper

50 100

52 21.8 26.5 39.7#

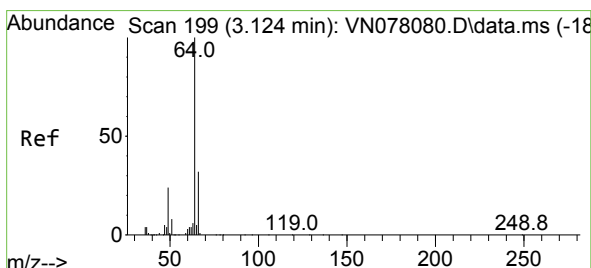
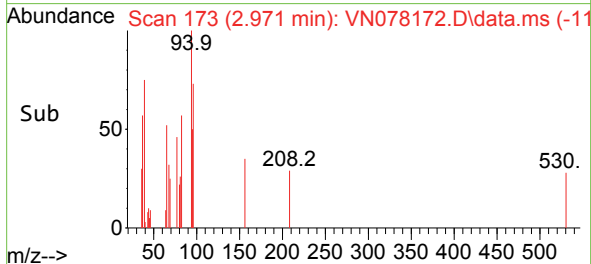
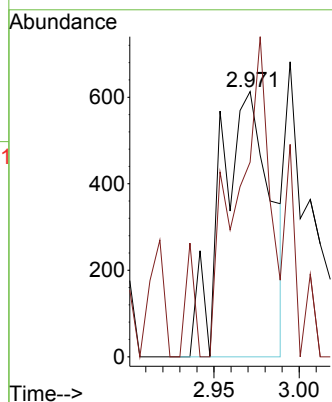
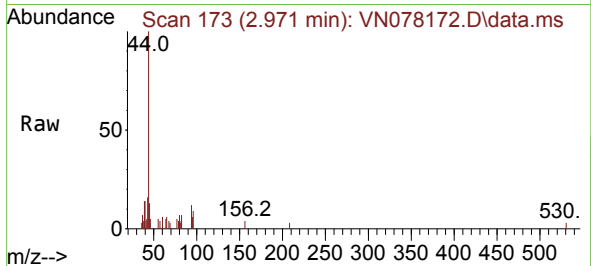




#5
Bromomethane
Concen: 0.230 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

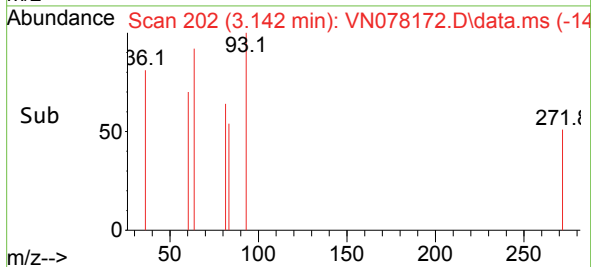
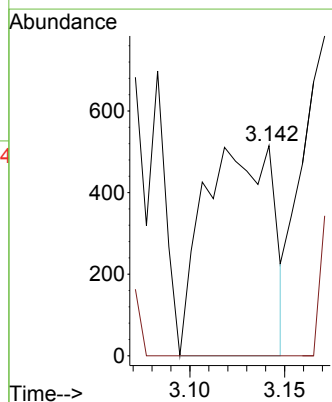
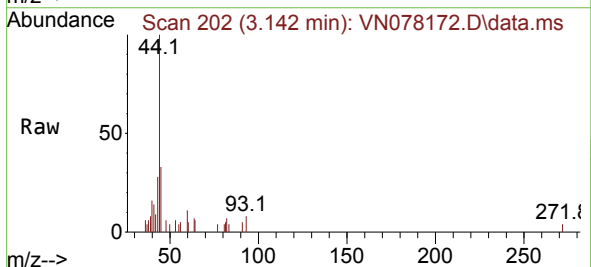
Instrument :
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TP-6-GA

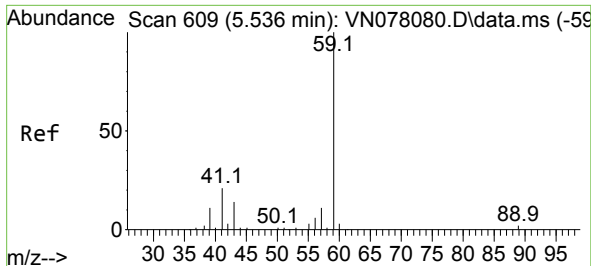
Tgt Ion: 94 Resp: 1239
Ion Ratio Lower Upper
94 100
96 73.4 73.1 109.7



#6
Chloroethane
Concen: 0.266 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.018 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

Tgt Ion: 64 Resp: 1294
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

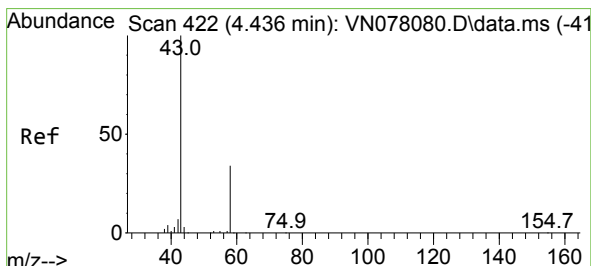
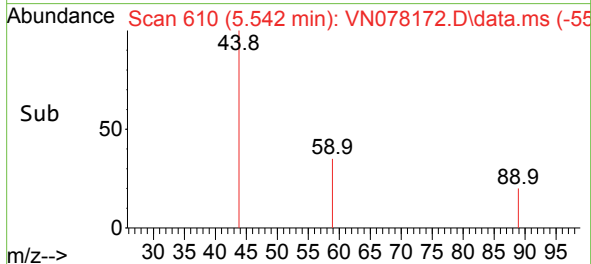
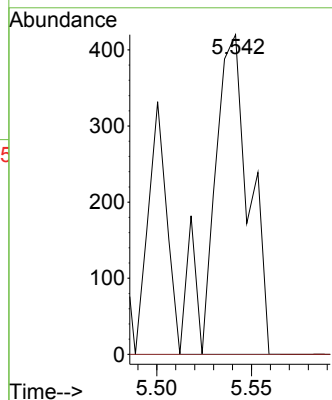
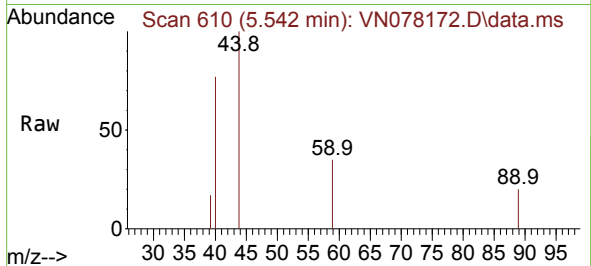




#11
Tert butyl alcohol
Concen: 0.642 ug/l
RT: 5.542 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

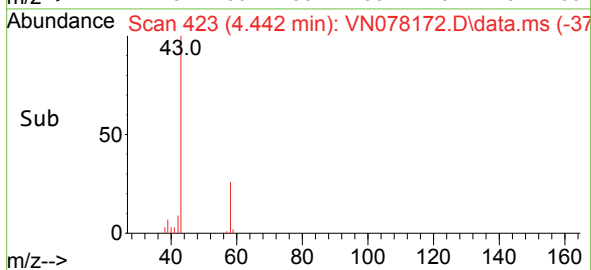
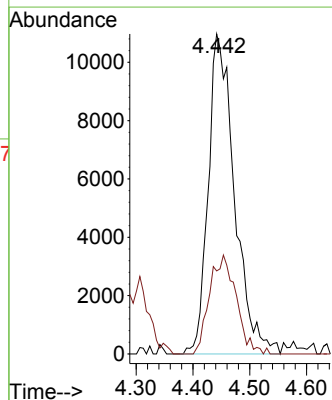
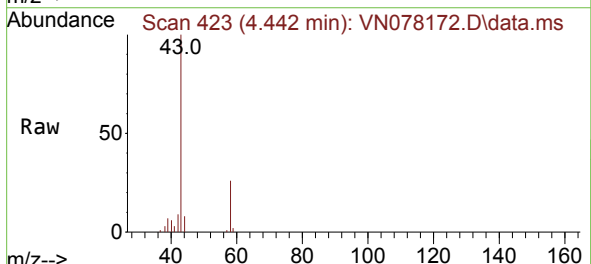
Instrument :
MSVOA_N
ClientSampleId :
TP-6-GA

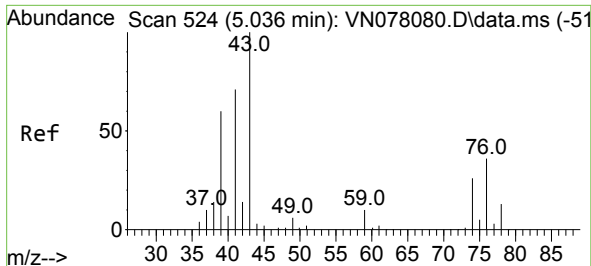
Tgt Ion: 59 Resp: 569
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 19.088 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.006 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

Tgt Ion: 43 Resp: 35285
Ion Ratio Lower Upper
43 100
58 26.0 28.0 42.0#

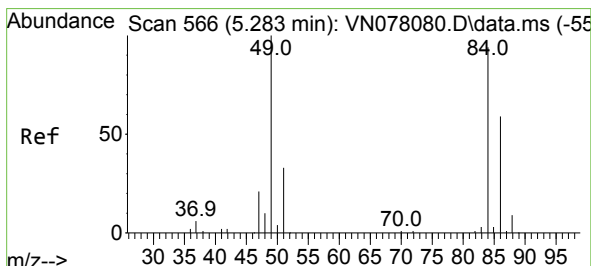
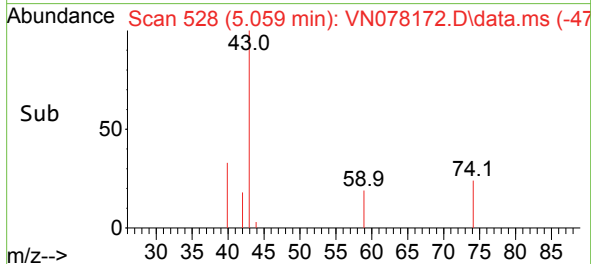
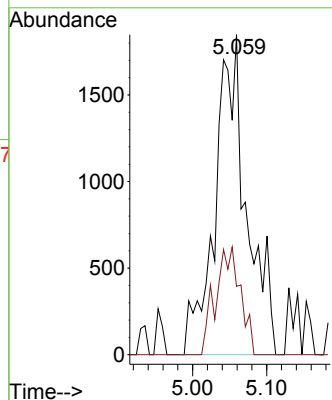
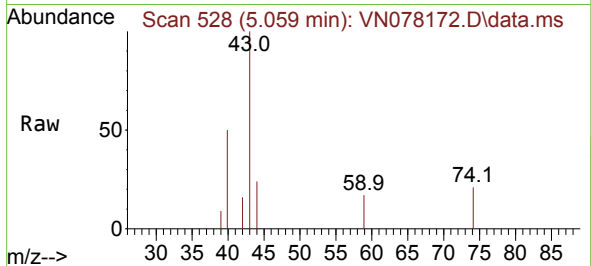




#18
Methyl Acetate
Concen: 0.640 ug/l
RT: 5.059 min Scan# 51
Delta R.T. 0.024 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

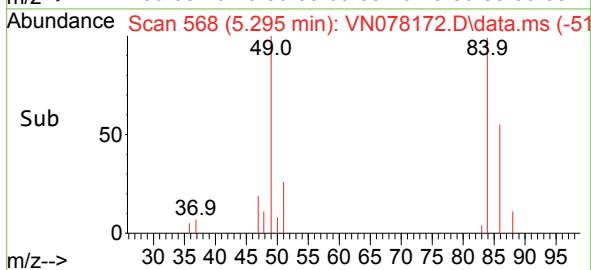
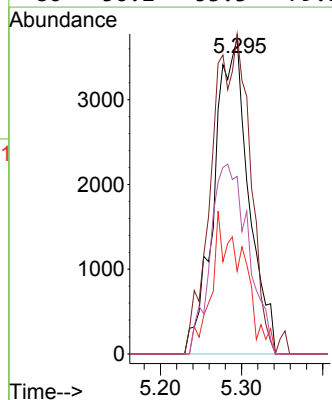
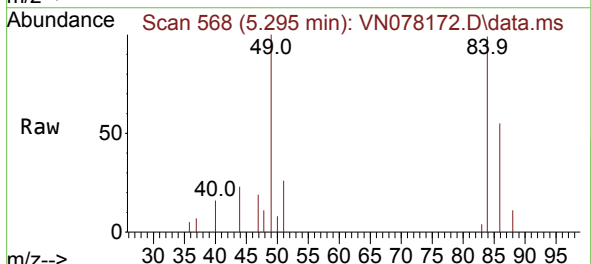
Instrument :
MSVOA_N
ClientSampleId :
TP-6-GA

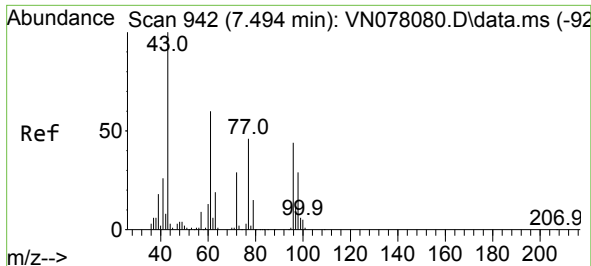
Tgt Ion: 43 Resp: 5449
Ion Ratio Lower Upper
43 100
74 26.6 26.2 39.4



#20
Methylene Chloride
Concen: 1.801 ug/l
RT: 5.295 min Scan# 568
Delta R.T. 0.012 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

Tgt Ion: 84 Resp: 11004
Ion Ratio Lower Upper
84 100
49 101.4 79.7 119.5
51 26.2 25.2 37.8
86 56.2 53.3 79.9

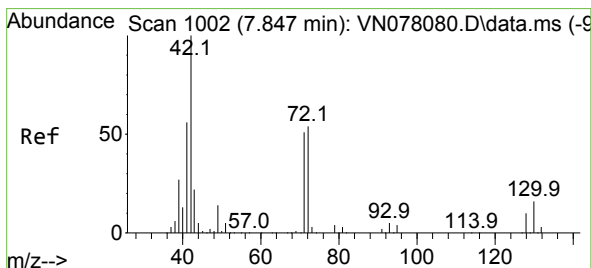
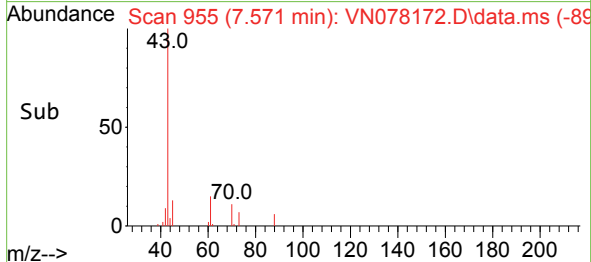
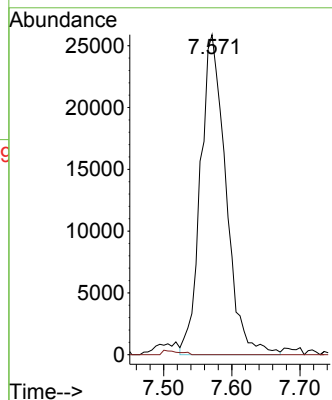
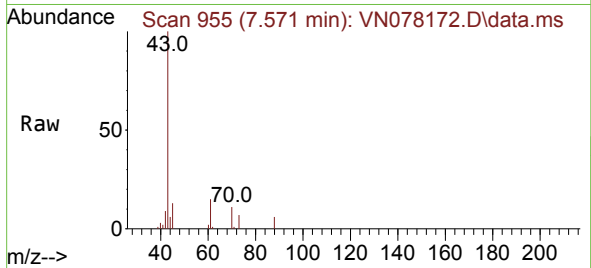




#25
2-Butanone
Concen: 23.571 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.077 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

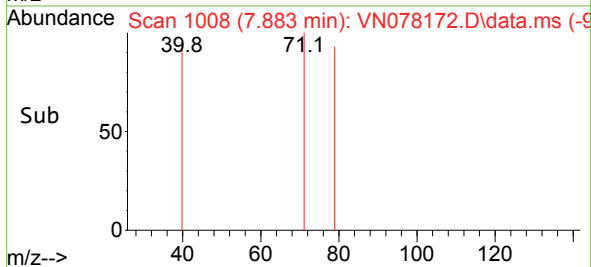
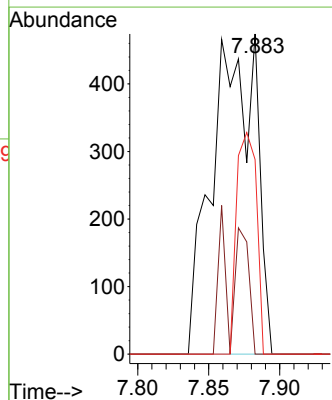
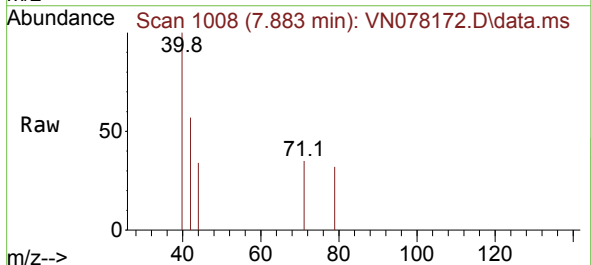
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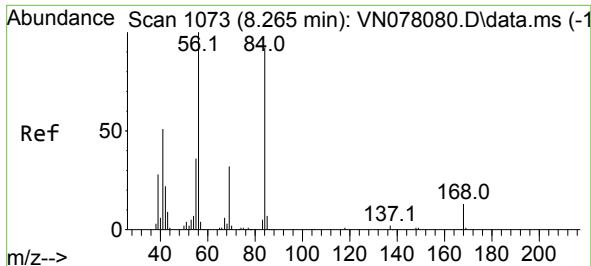
Tgt Ion: 43 Resp: 67006
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.531 ug/l
RT: 7.883 min Scan# 1008
Delta R.T. 0.035 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

Tgt Ion: 42 Resp: 1009
Ion Ratio Lower Upper
42 100
72 12.4 49.8 74.6#
71 31.8 47.4 71.2#

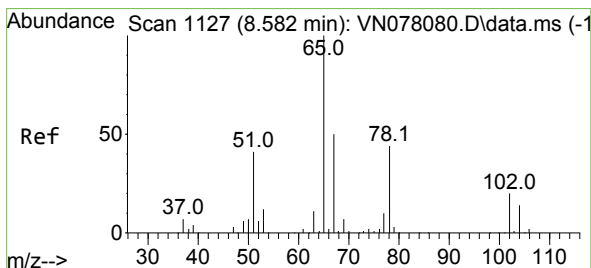
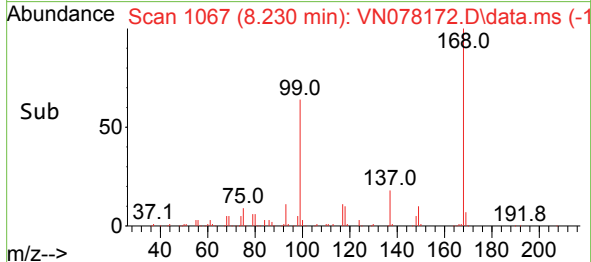
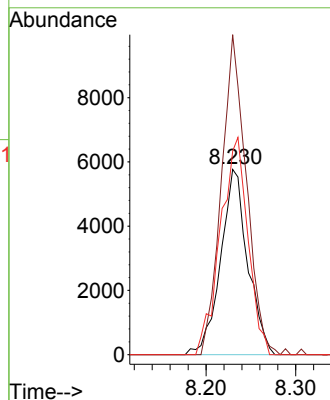
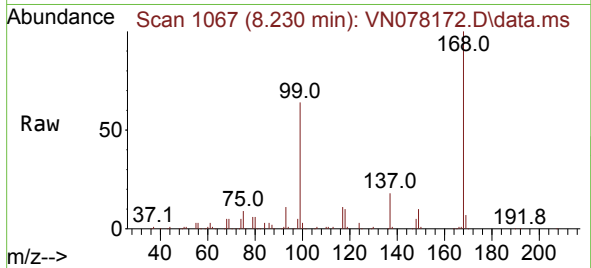




#31
Cyclohexane
Concen: 1.471 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

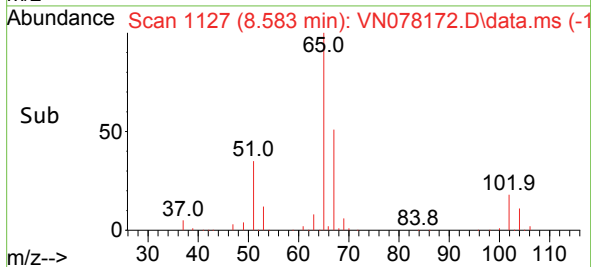
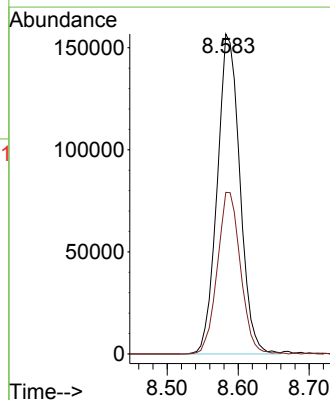
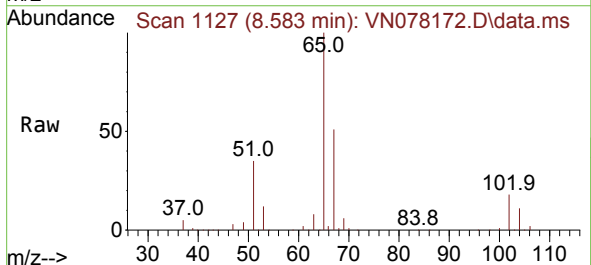
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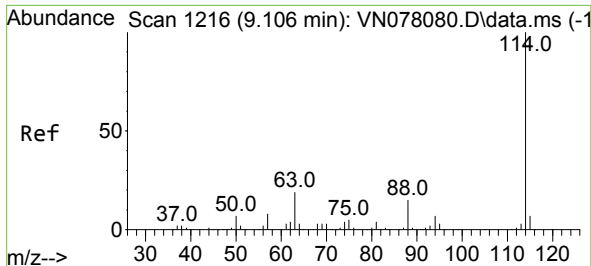
Tgt Ion: 56 Resp: 12119
Ion Ratio Lower Upper
56 100
69 172.7 26.8 40.2#
84 109.8 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 53.964 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

Tgt Ion: 65 Resp: 346569
Ion Ratio Lower Upper
65 100
67 51.6 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: VN078172.D

Acq: 12 Jun 2023 17:30

Instrument :

MSVOA_N

ClientSampleId :

TP-6-GA

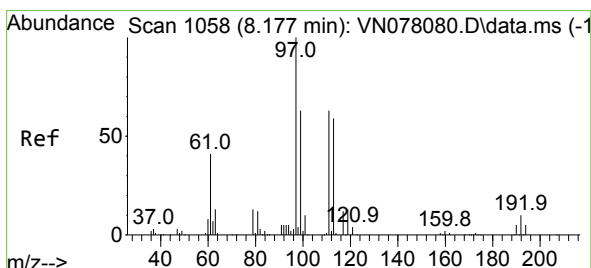
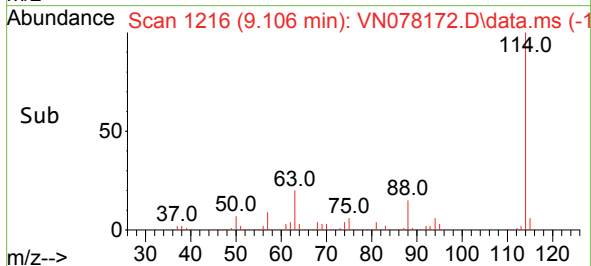
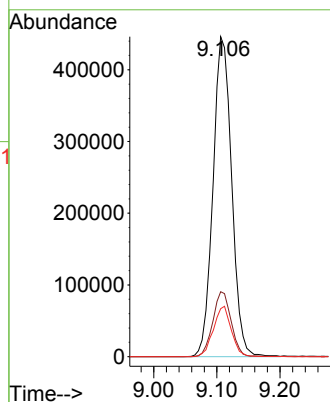
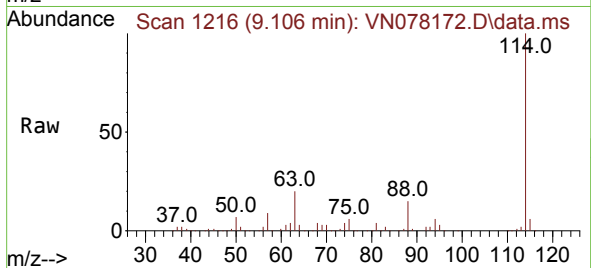
Tgt Ion:114 Resp: 916101

Ion Ratio Lower Upper

114 100

63 20.3 0.0 36.4

88 15.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.759 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078172.D

Acq: 12 Jun 2023 17:30

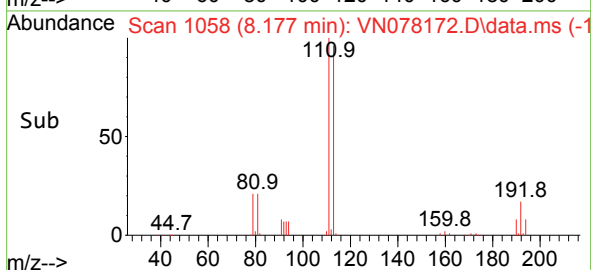
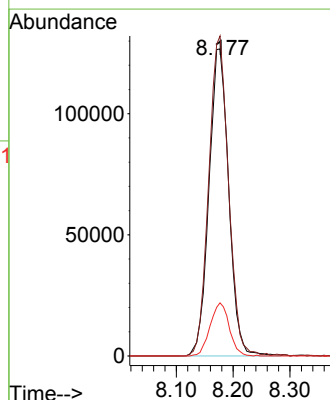
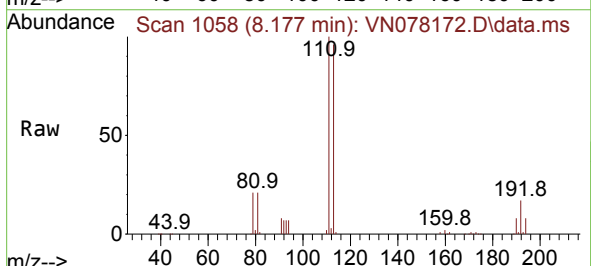
Tgt Ion:113 Resp: 305603

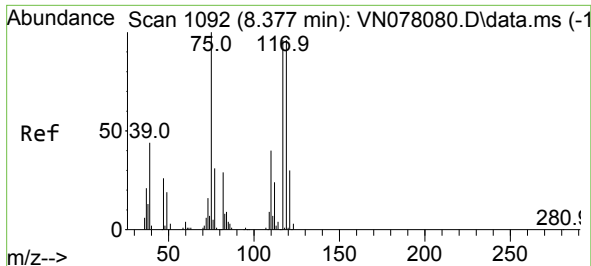
Ion Ratio Lower Upper

113 100

111 104.3 82.6 123.8

192 16.7 12.7 19.1

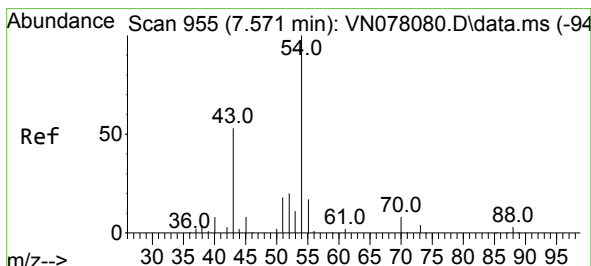
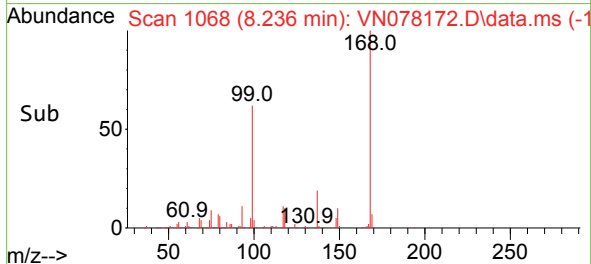
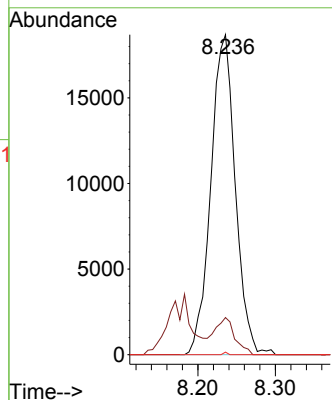
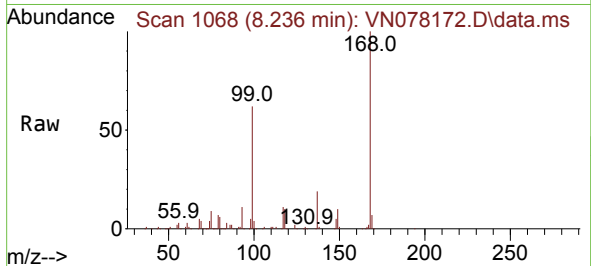




#36
1,1-Dichloropropene
Concen: 4.947 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

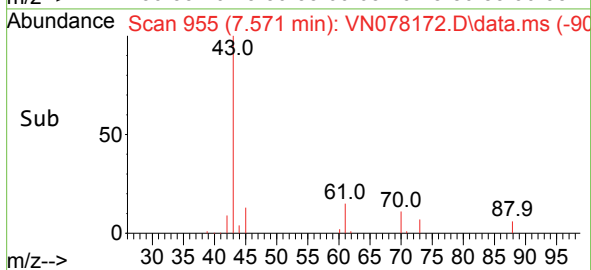
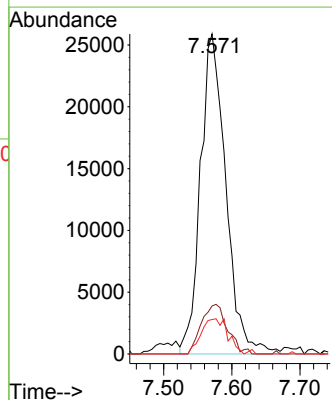
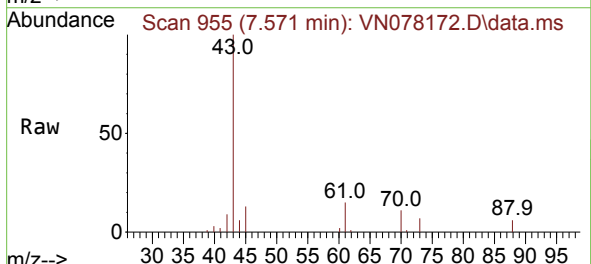
Instrument :
MSVOA_N
ClientSampleId :
TP-6-GA

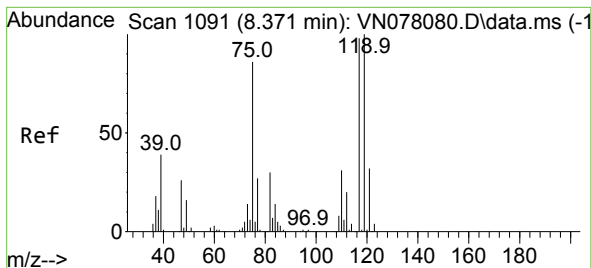
Tgt Ion: 75 Resp: 41106
Ion Ratio Lower Upper
75 100
110 9.5 19.1 57.3#
77 0.1 25.0 37.4#



#37
Ethyl Acetate
Concen: 10.324 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.000 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

Tgt Ion: 43 Resp: 67006
Ion Ratio Lower Upper
43 100
61 15.9 13.2 19.8
70 11.6 11.3 16.9





#38

Carbon Tetrachloride

Concen: 6.212 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.135 min

Lab File: VN078172.D

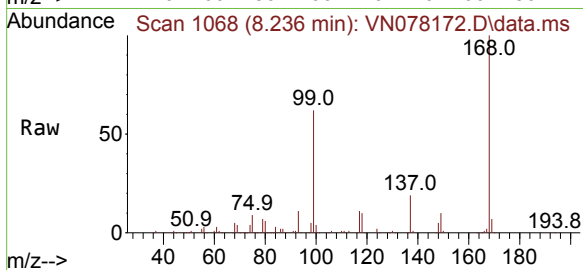
Acq: 12 Jun 2023 17:30

Instrument :

MSVOA_N

ClientSampleId :

TP-6-GA



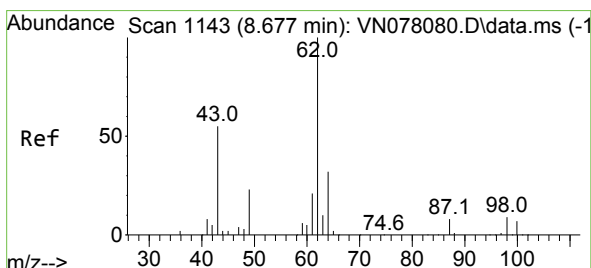
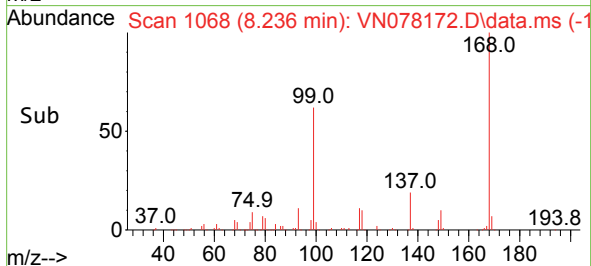
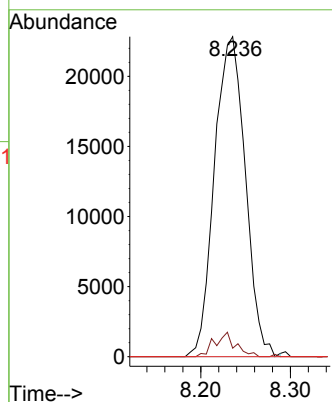
Tgt Ion:117 Resp: 54501

Ion Ratio Lower Upper

117 100

119 2.6 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.254 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.018 min

Lab File: VN078172.D

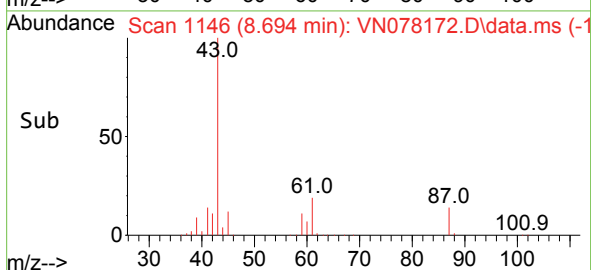
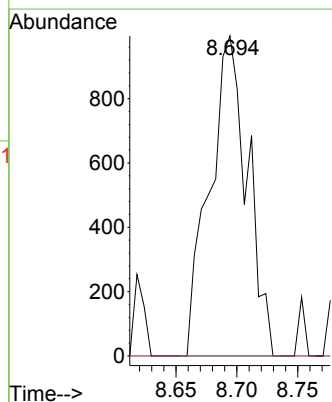
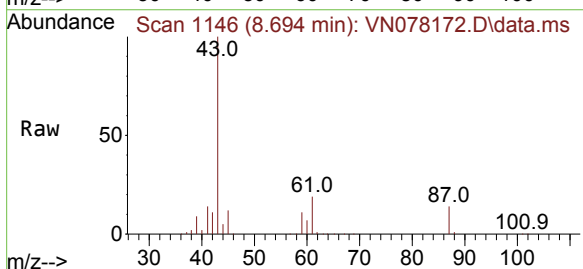
Acq: 12 Jun 2023 17:30

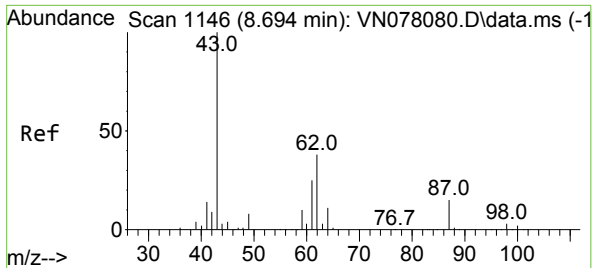
Tgt Ion: 62 Resp: 2157

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

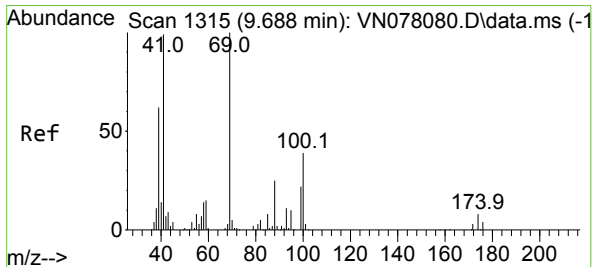
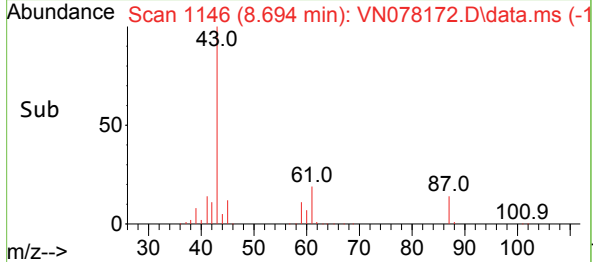
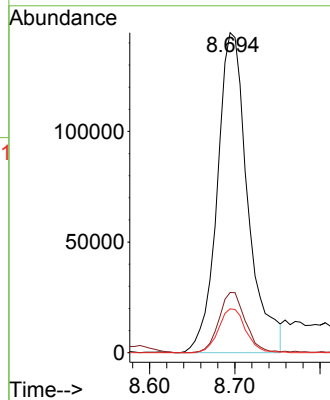
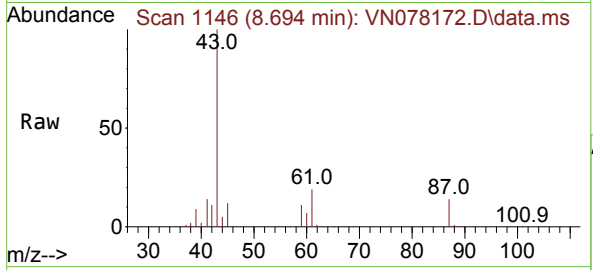




#43
Isopropyl Acetate
Concen: 29.042 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

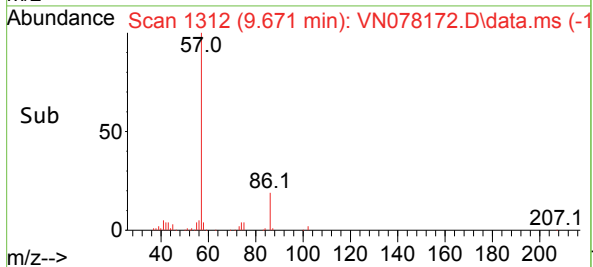
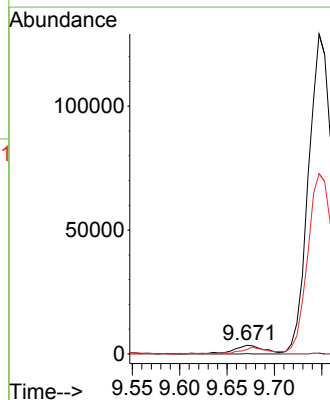
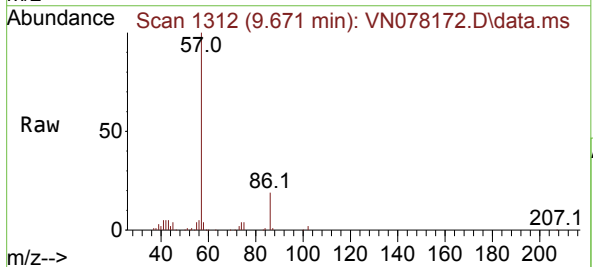
Instrument :
MSVOA_N
ClientSampleId :
TP-6-GA

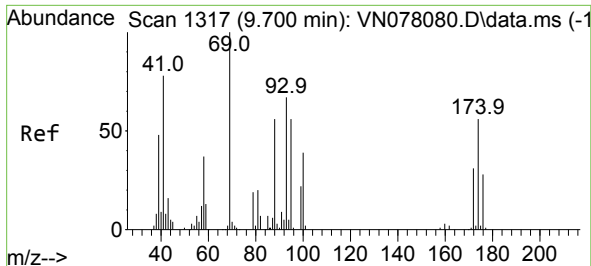
Tgt Ion: 43 Resp: 360495
Ion Ratio Lower Upper
43 100
61 16.4 24.7 37.1#
87 12.1 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.520 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

Tgt Ion: 41 Resp: 7920
Ion Ratio Lower Upper
41 100
69 1.0 90.4 135.6#
39 62.9 54.6 81.8





#49

1,4-Dioxane

Concen: 2.612 ug/l

RT: 9.741 min Scan# 1317

Delta R.T. 0.041 min

Lab File: VN078172.D

Acq: 12 Jun 2023 17:30

Instrument :

MSVOA_N

ClientSampleId :

TP-6-GA

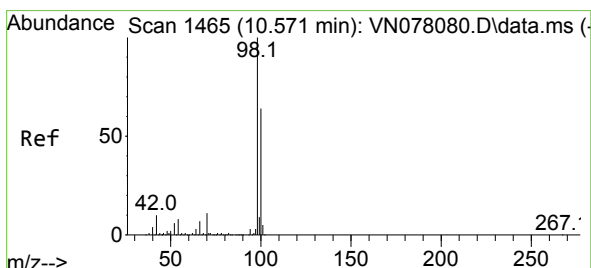
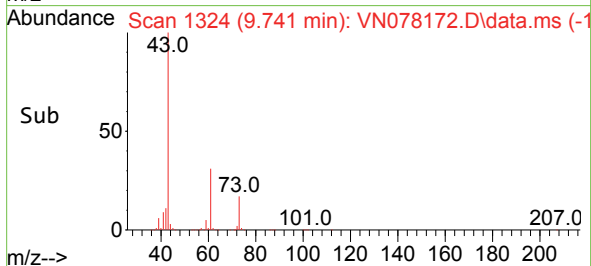
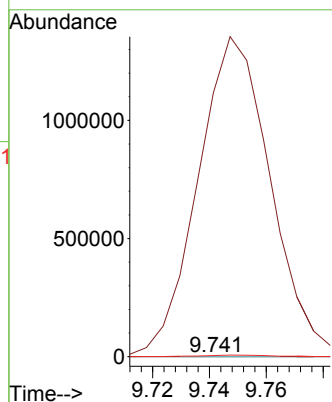
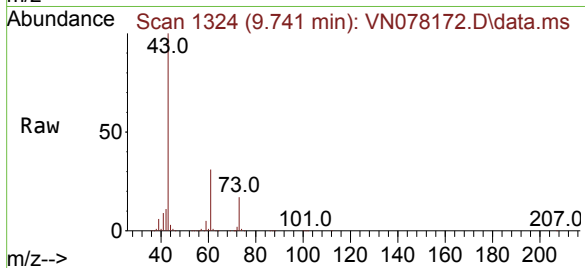
Tgt Ion: 88 Resp: 286

Ion Ratio Lower Upper

88 100

43 850126.6 17.0 25.6#

58 4379.4 47.0 70.4#



#50

Toluene-d8

Concen: 49.929 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078172.D

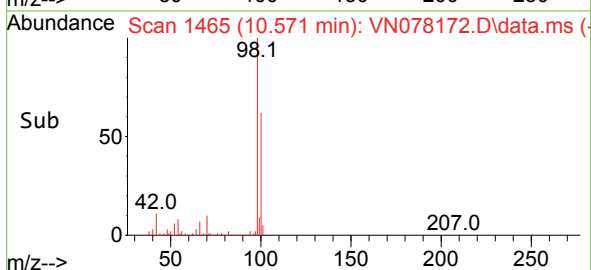
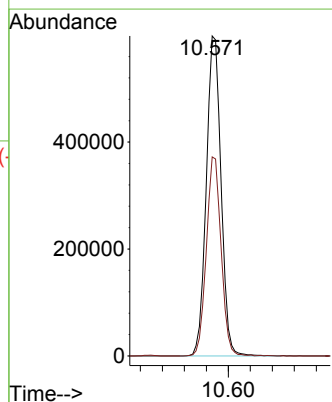
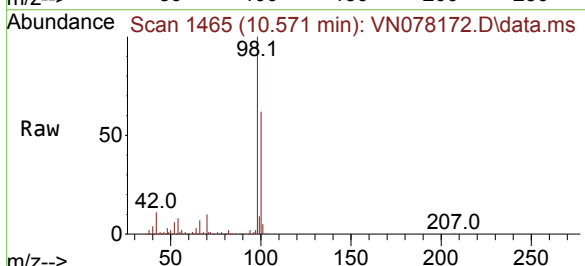
Acq: 12 Jun 2023 17:30

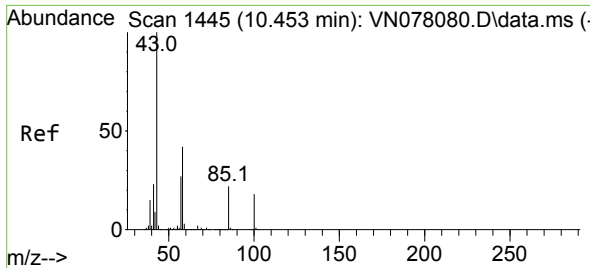
Tgt Ion: 98 Resp: 1114918

Ion Ratio Lower Upper

98 100

100 62.1 52.0 78.0

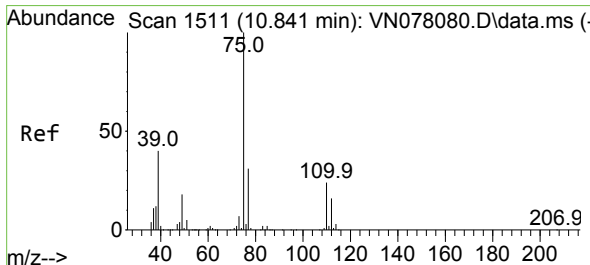
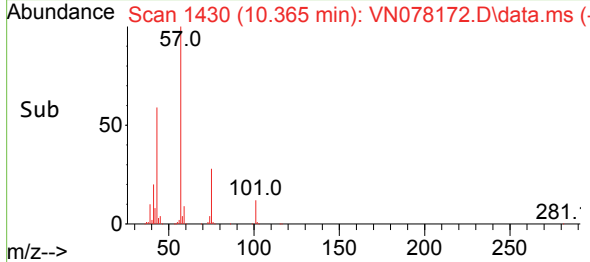
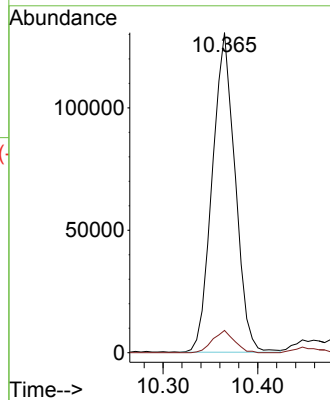
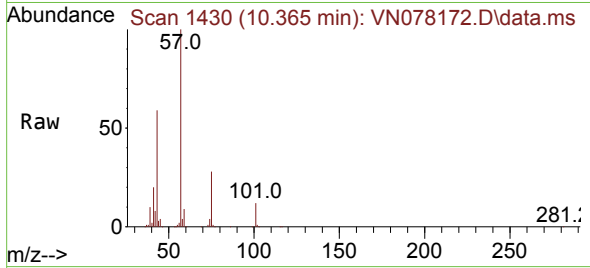




#51
4-Methyl-2-Pentanone
Concen: 33.468 ug/l
RT: 10.365 min Scan# 1445
Delta R.T. -0.088 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

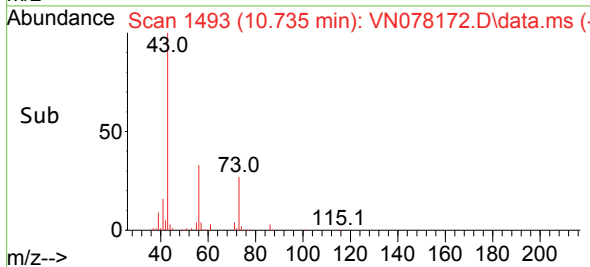
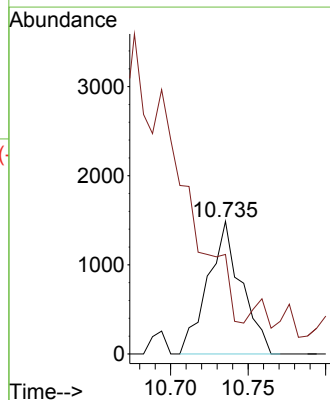
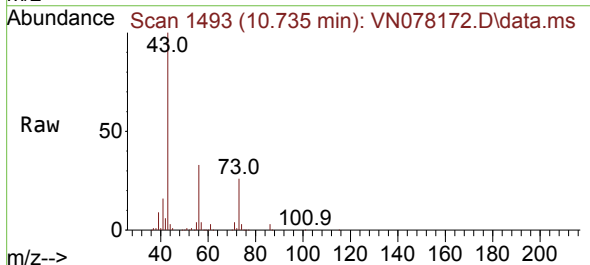
Instrument :
MSVOA_N
ClientSampleId :
TP-6-GA

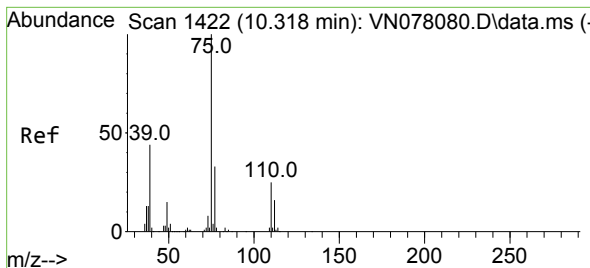
Tgt Ion: 43 Resp: 218763
Ion Ratio Lower Upper
43 100
58 6.6 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.255 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.106 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

Tgt Ion: 75 Resp: 2243
Ion Ratio Lower Upper
75 100
77 50.4 25.4 38.0#

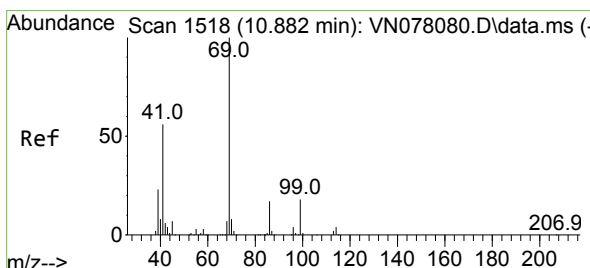
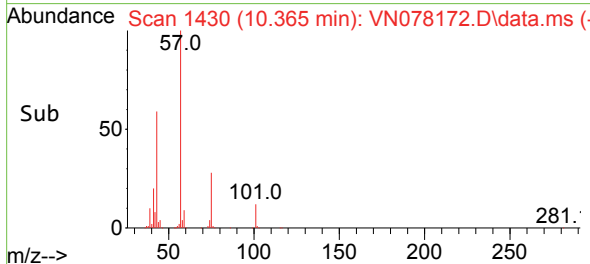
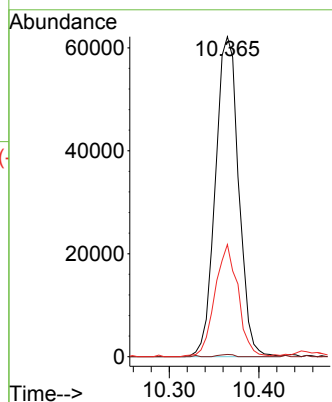
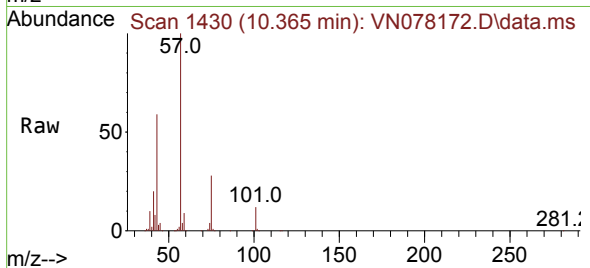




#54
 cis-1,3-Dichloropropene
 Concen: 11.514 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078172.D
 Acq: 12 Jun 2023 17:30

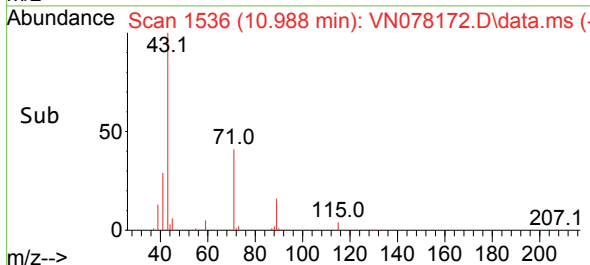
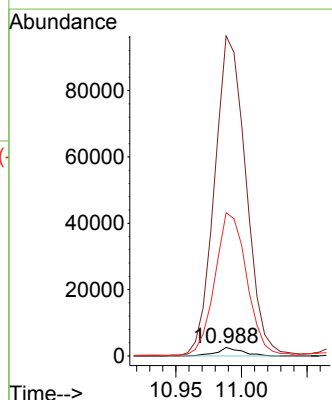
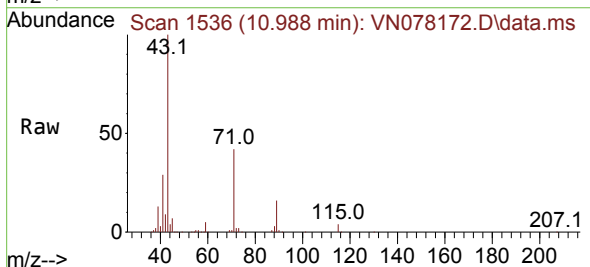
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6-GA

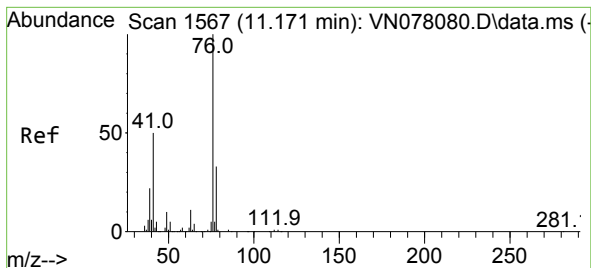
Tgt Ion: 75 Resp: 111921
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 35.0 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.400 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.106 min
 Lab File: VN078172.D
 Acq: 12 Jun 2023 17:30

Tgt Ion: 69 Resp: 3451
 Ion Ratio Lower Upper
 69 100
 41 4671.8 39.6 59.4#
 39 2097.0 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.315 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.041 min

Lab File: VN078172.D

Acq: 12 Jun 2023 17:30

Instrument :

MSVOA_N

ClientSampleId :

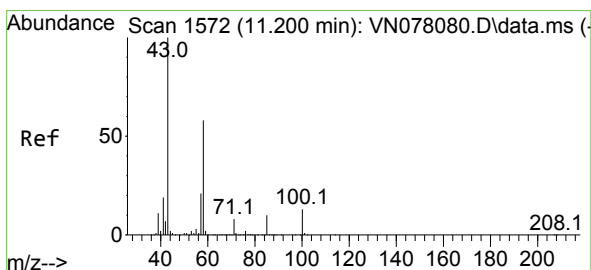
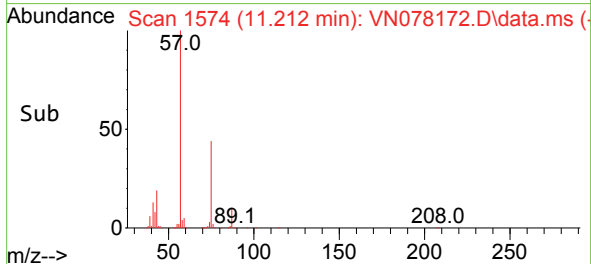
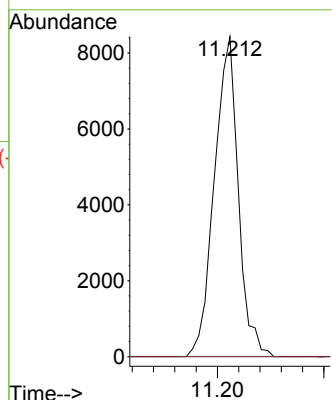
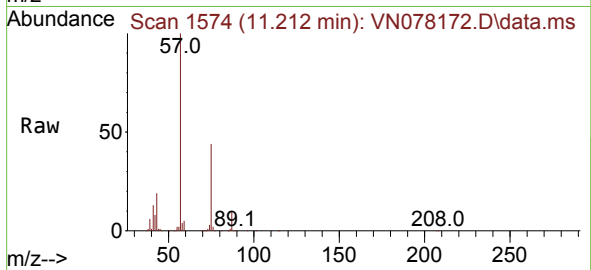
TP-6-GA

Tgt Ion: 76 Resp: 13148

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 53.351 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078172.D

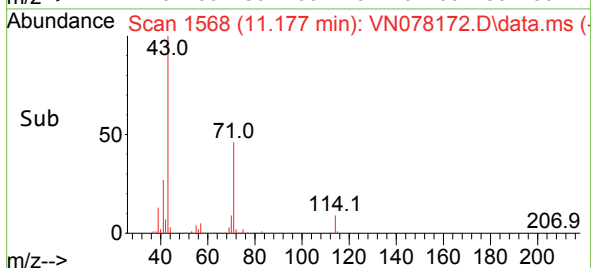
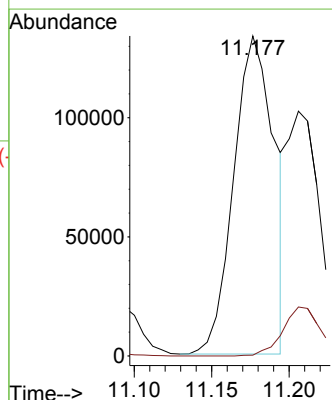
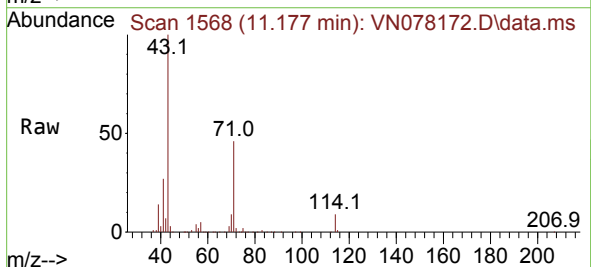
Acq: 12 Jun 2023 17:30

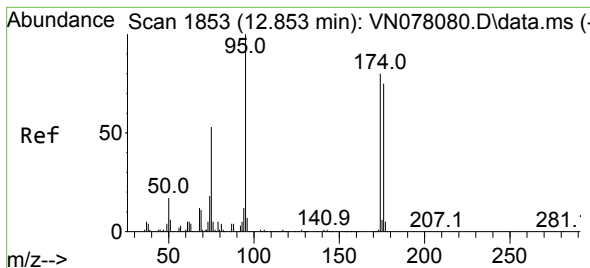
Tgt Ion: 43 Resp: 242817

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

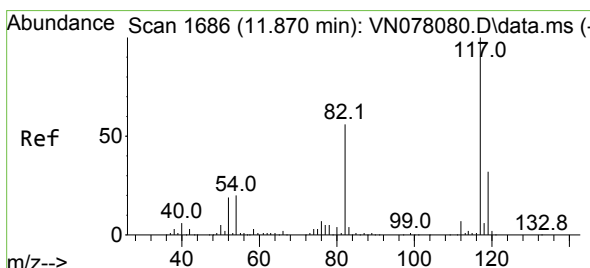
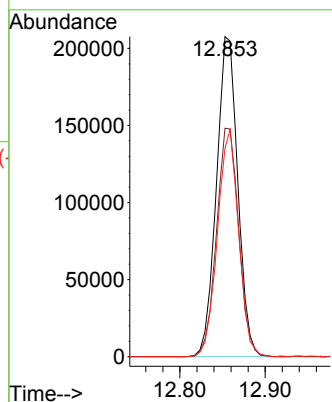
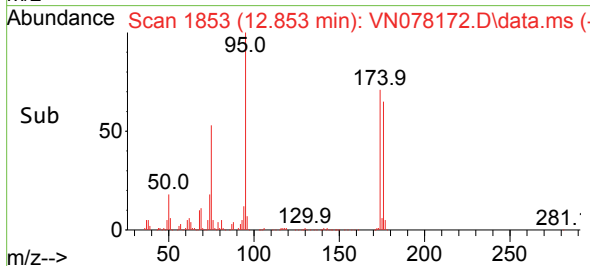
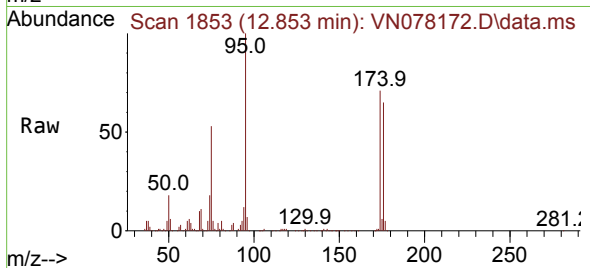




#62
4-Bromofluorobenzene
Concen: 52.005 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

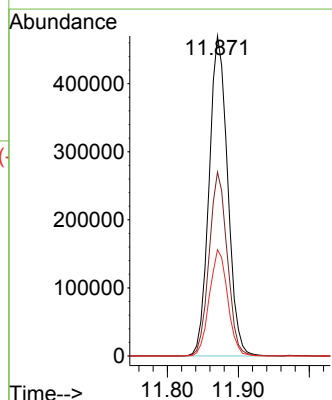
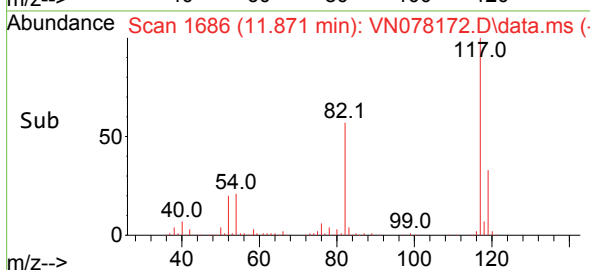
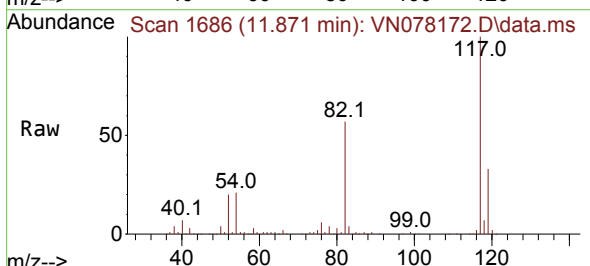
Instrument :
MSVOA_N
ClientSampleId :
TP-6-GA

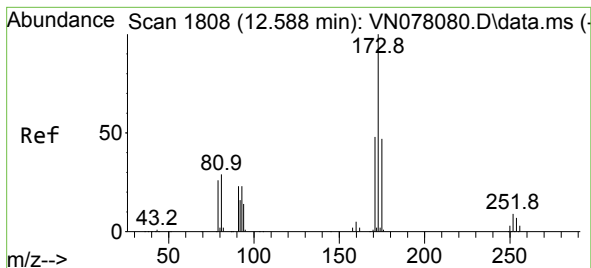
Tgt Ion: 95 Resp: 361014
Ion Ratio Lower Upper
95 100
174 74.1 0.0 143.8
176 70.2 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

Tgt Ion: 117 Resp: 851676
Ion Ratio Lower Upper
117 100
82 57.4 44.0 66.0
119 33.2 25.6 38.4





#71

Bromoform

Concen: 0.364 ug/l

RT: 12.853 min Scan# 1808

Delta R.T. 0.265 min

Lab File: VN078172.D

Acq: 12 Jun 2023 17:30

Instrument :

MSVOA_N

ClientSampleId :

TP-6-GA

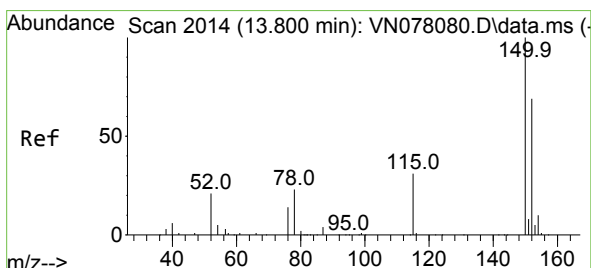
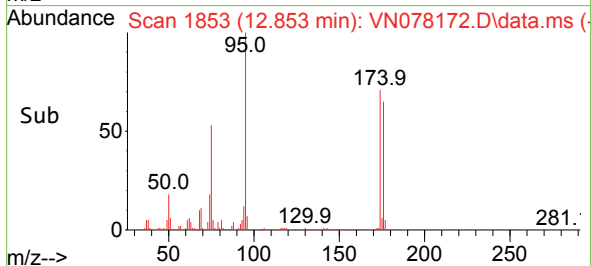
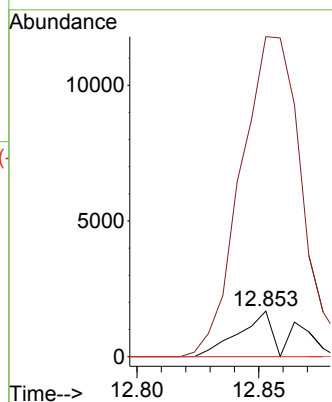
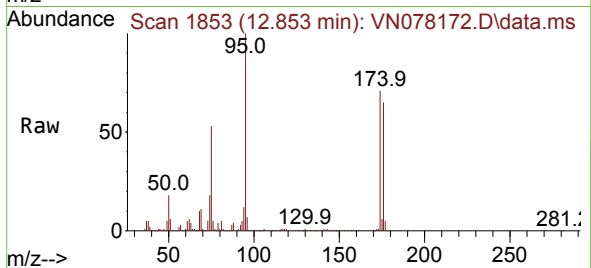
Tgt Ion:173 Resp: 1576

Ion Ratio Lower Upper

173 100

175 1148.6 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: VN078172.D

Acq: 12 Jun 2023 17:30

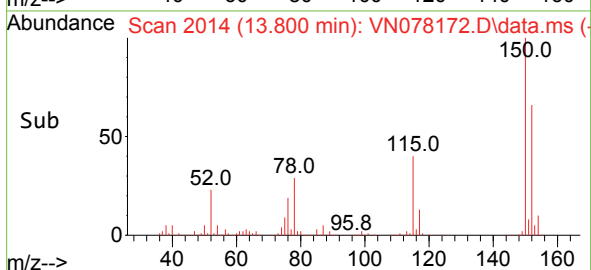
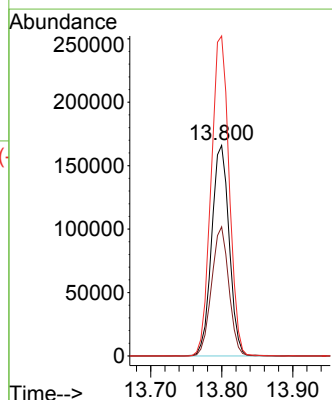
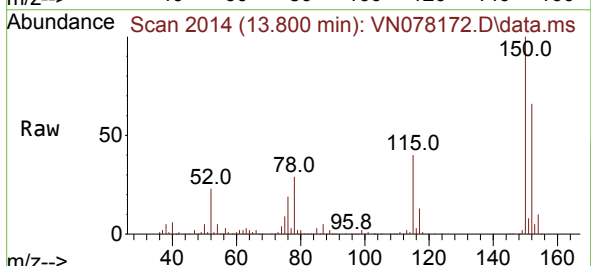
Tgt Ion:152 Resp: 284222

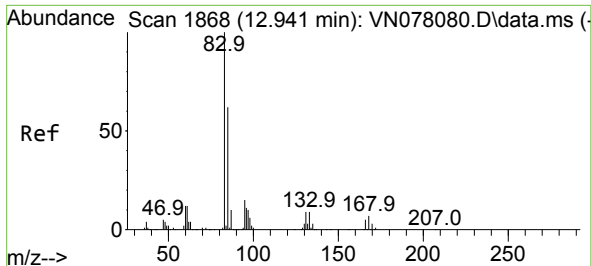
Ion Ratio Lower Upper

152 100

115 60.4 32.3 96.8

150 156.2 0.0 355.8

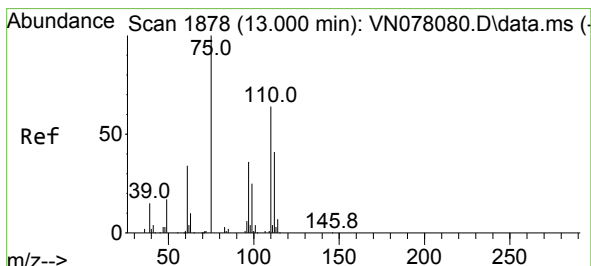
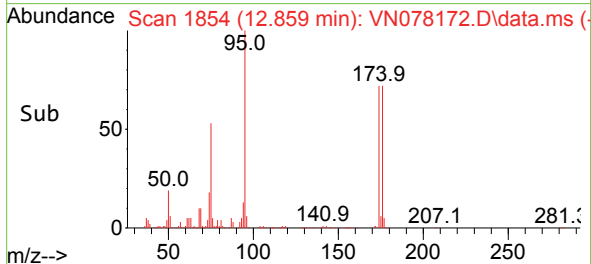
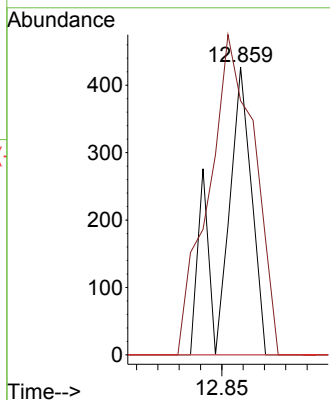
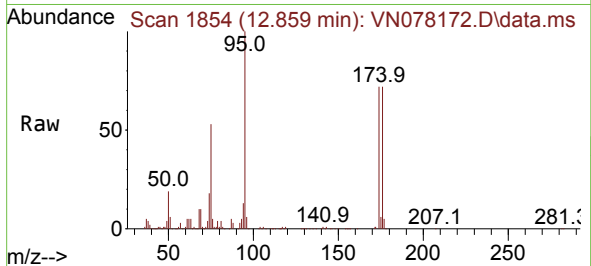




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.859 min Scan# 1854
Delta R.T. -0.082 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

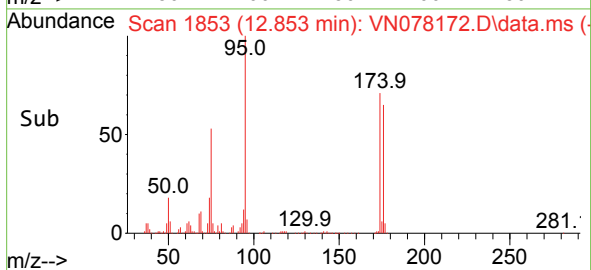
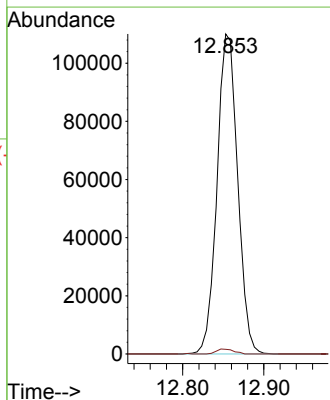
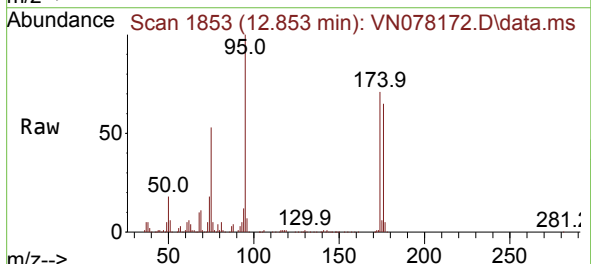
Instrument :
MSVOA_N
ClientSampleId :
TP-6-GA

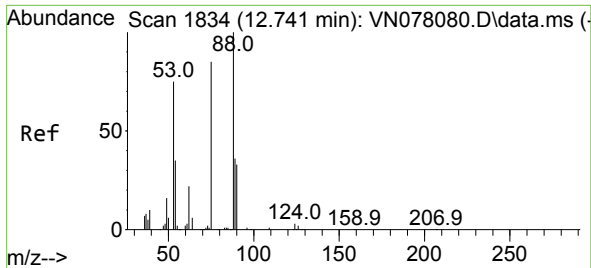
Tgt Ion: 83 Resp: 393
Ion Ratio Lower Upper
83 100
131 180.2 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 28.929 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078172.D
Acq: 12 Jun 2023 17:30

Tgt Ion: 75 Resp: 194379
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.880 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078172.D
 Acq: 12 Jun 2023 17:30

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6-GA

Tgt Ion: 75 Resp: 194379
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.1 38.8 58.2#

