

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061423\
 Data File : VN078211.D
 Acq On : 14 Jun 2023 17:21
 Operator : JC\MD
 Sample : 03167-03RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4-GA

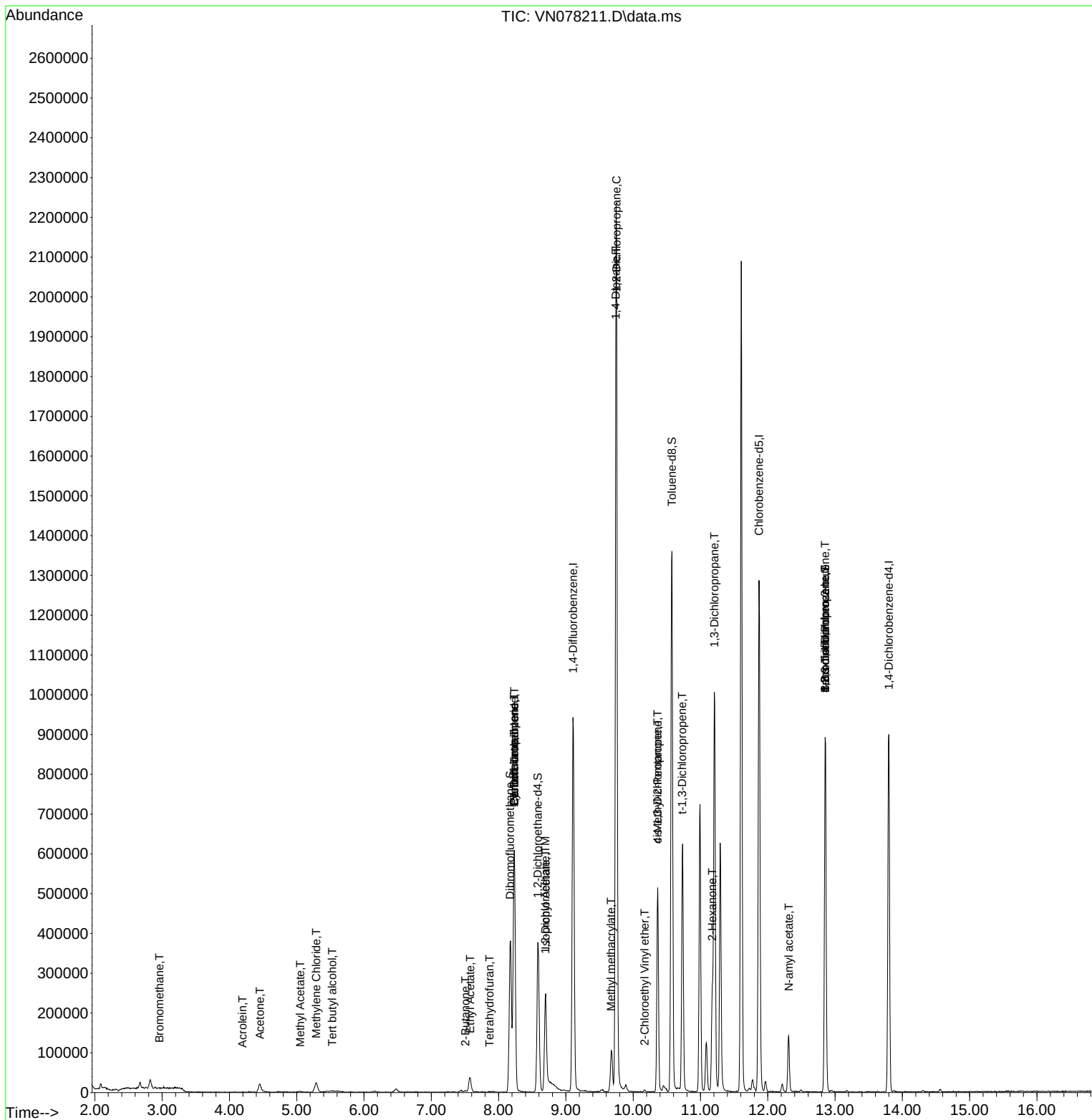
Quant Time: Jun 15 02:46:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

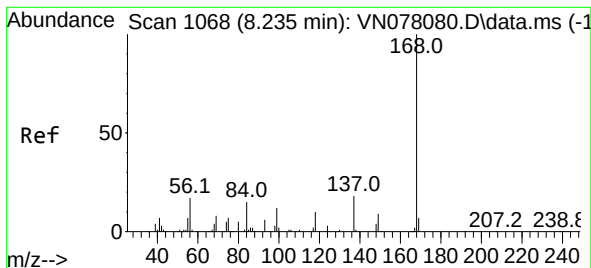
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	444278	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	834796	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	777968	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	250220	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	313271	52.885	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.780%			
35) Dibromofluoromethane	8.171	113	278911	52.841	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.680%			
50) Toluene-d8	10.577	98	1004597	49.370	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.740%			
62) 4-Bromofluorobenzene	12.853	95	318592	50.364	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.720%			
Target Compounds						Qvalue
3) Chloromethane	2.371	50	1198	Below Cal	#	69
5) Bromomethane	2.959	94	1194	0.240	ug/l #	55
11) Tert butyl alcohol	5.530	59	328	0.401	ug/l #	72
13) Acrolein	4.195	56	664	0.737	ug/l	90
16) Acetone	4.453	43	37132	21.778	ug/l	91
18) Methyl Acetate	5.053	43	2862	0.365	ug/l #	70
20) Methylene Chloride	5.289	84	18029	3.200	ug/l #	92
25) 2-Butanone	7.506	43	4662	1.778	ug/l	95
29) Tetrahydrofuran	7.865	42	1232	0.703	ug/l #	40
31) Cyclohexane	8.230	56	11258	1.482	ug/l #	49
36) 1,1-Dichloropropene	8.230	75	39163	5.173	ug/l #	50
37) Ethyl Acetate	7.577	43	56806	9.604	ug/l	97
38) Carbon Tetrachloride	8.235	117	48598	6.079	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	2157	0.278	ug/l	80
43) Isopropyl Acetate	8.700	43	326898	28.900	ug/l #	76
45) 1,2-Dichloropropane	9.753	63	3120	0.555	ug/l #	45
48) Methyl methacrylate	9.671	41	6316	1.331	ug/l #	32
49) 1,4-Dioxane	9.741	88	230	2.305	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	182174	30.585	ug/l #	41
53) t-1,3-Dichloropropene	10.729	75	1950	0.243	ug/l #	81
54) cis-1,3-Dichloropropene	10.365	75	97347	10.990	ug/l #	69
57) 1,3-Dichloropropane	11.206	76	11111	1.219	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.171	63	2474	0.779	ug/l #	81
59) 2-Hexanone	11.176	43	203366	49.035	ug/l #	19
71) Bromoform	12.853	173	2473	0.625	ug/l #	1
74) N-amyl acetate	12.312	43	47049	6.038	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	12.918	83	150	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	168332	28.457	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	168332	87.429	ug/l #	15

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

Quant Time: Jun 15 02:46:47 2023
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Response via : Initial Calibration

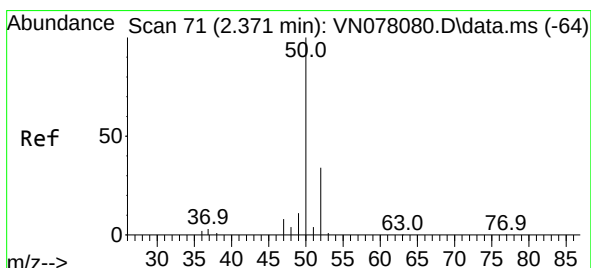
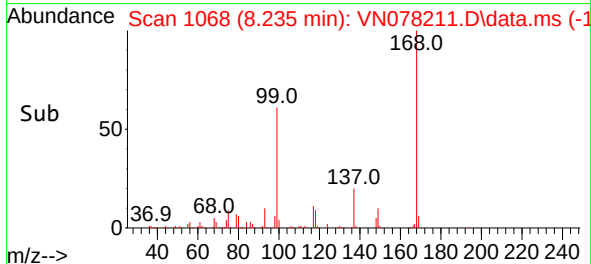
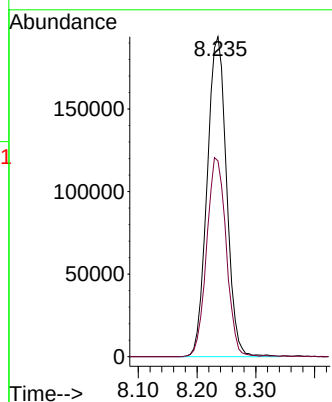
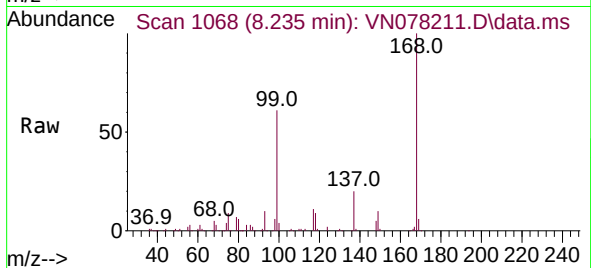




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

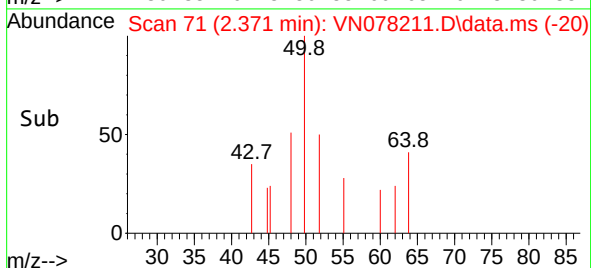
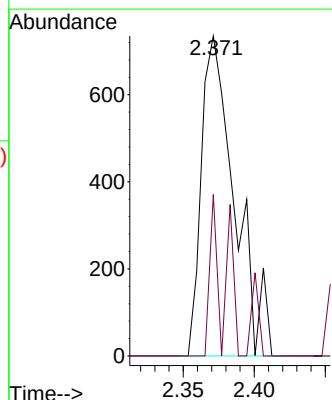
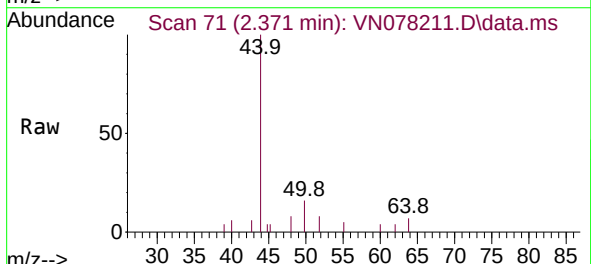
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

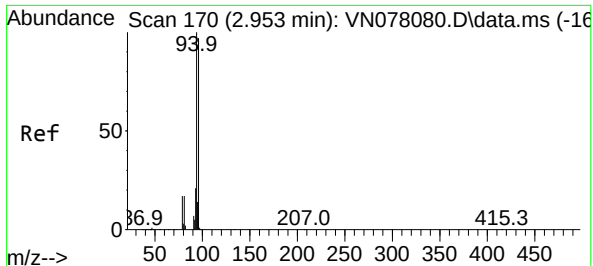
Tgt Ion:168 Resp: 444278
Ion Ratio Lower Upper
168 100
99 61.2 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

Tgt Ion: 50 Resp: 1198
Ion Ratio Lower Upper
50 100
52 50.5 26.5 39.7#

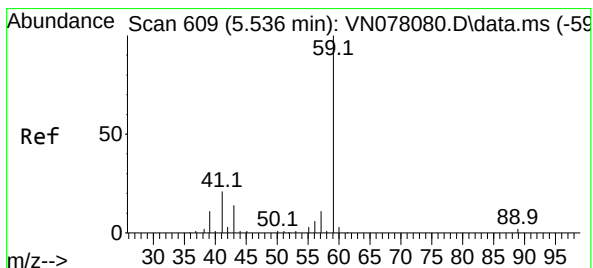
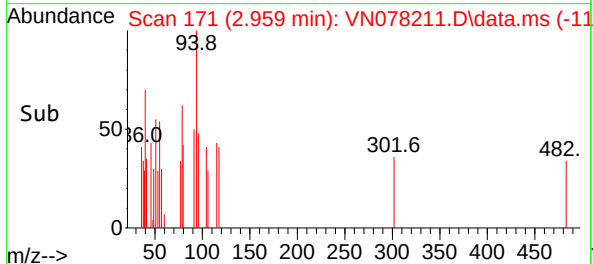
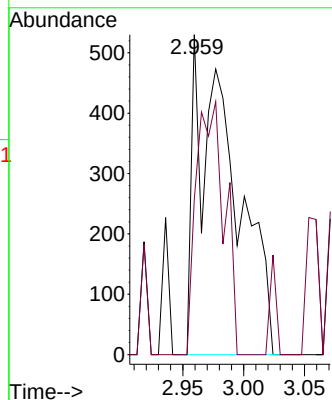
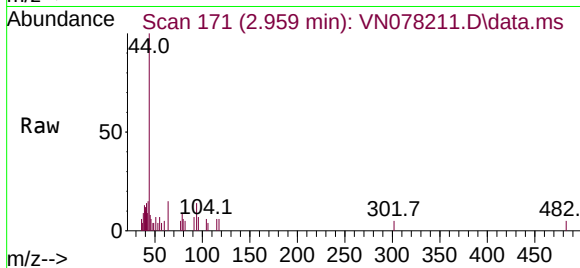




#5
Bromomethane
Concen: 0.240 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

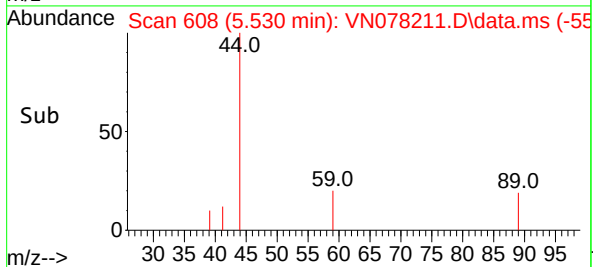
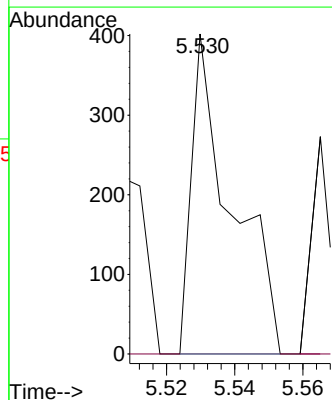
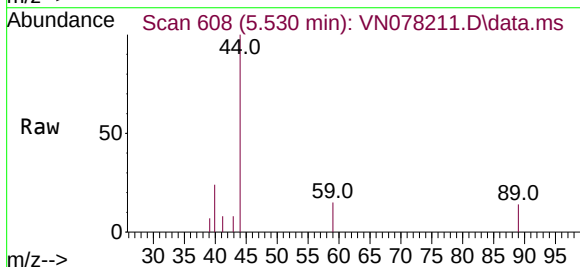
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

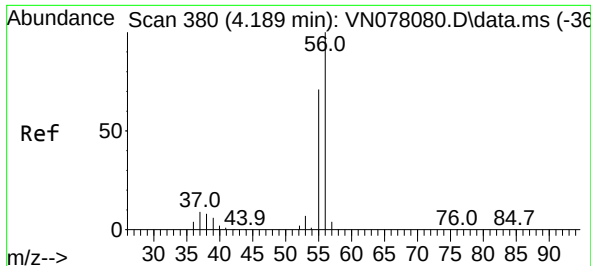
Tgt Ion: 94 Resp: 1194
Ion Ratio Lower Upper
94 100
96 48.5 73.1 109.7#



#11
Tert butyl alcohol
Concen: 0.401 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

Tgt Ion: 59 Resp: 328
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 0.737 ug/l

RT: 4.195 min Scan# 381

Delta R.T. 0.006 min

Lab File: VN078211.D

Acq: 14 Jun 2023 17:21

Instrument :

MSVOA_N

ClientSampleId :

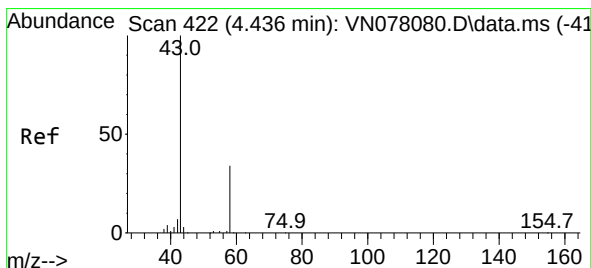
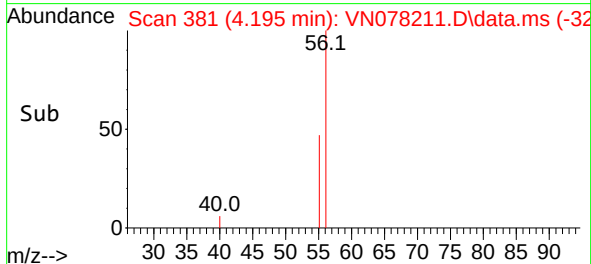
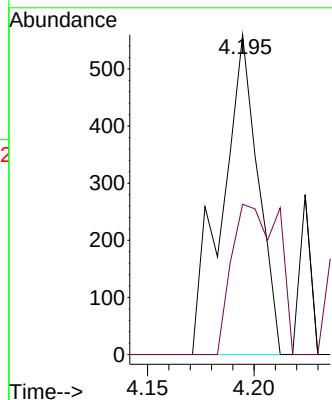
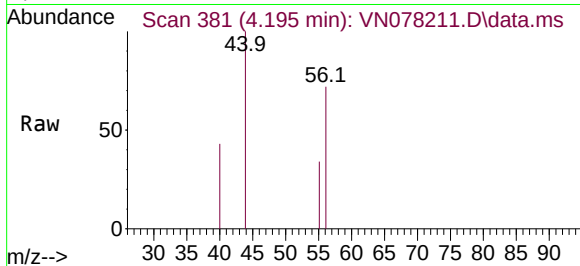
TP-4-GA

Tgt Ion: 56 Resp: 664

Ion Ratio Lower Upper

56 100

55 60.4 54.5 81.7



#16

Acetone

Concen: 21.778 ug/l

RT: 4.453 min Scan# 425

Delta R.T. 0.018 min

Lab File: VN078211.D

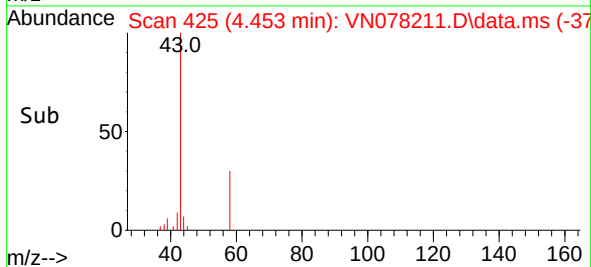
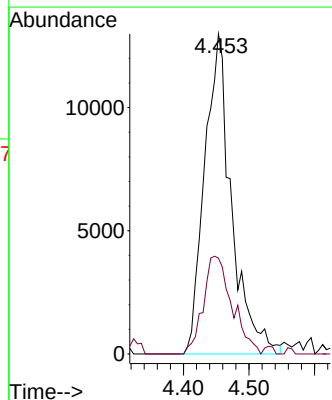
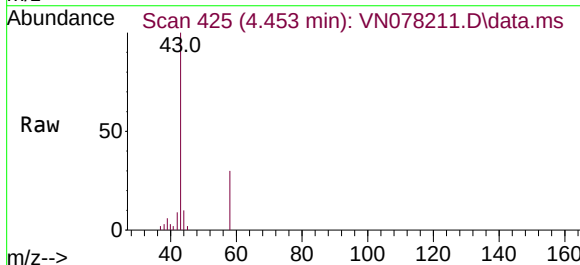
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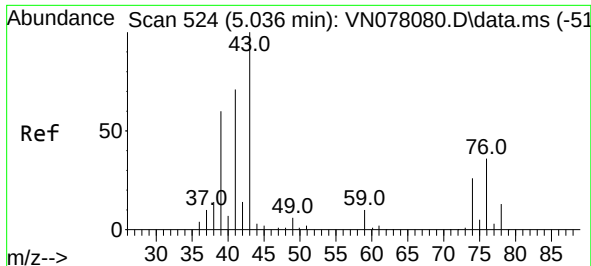
Tgt Ion: 43 Resp: 37132

Ion Ratio Lower Upper

43 100

58 29.9 28.0 42.0

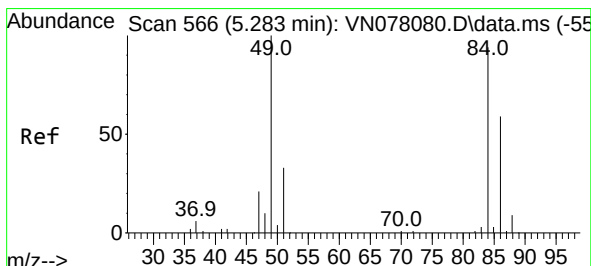
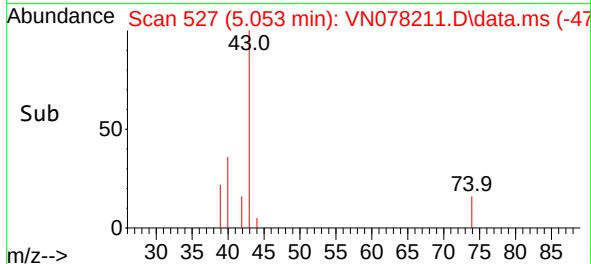
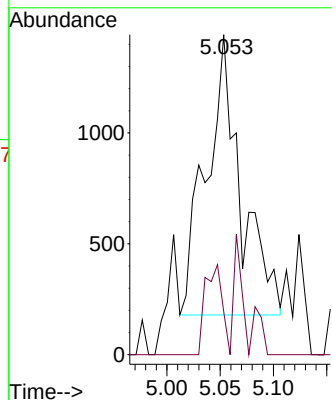
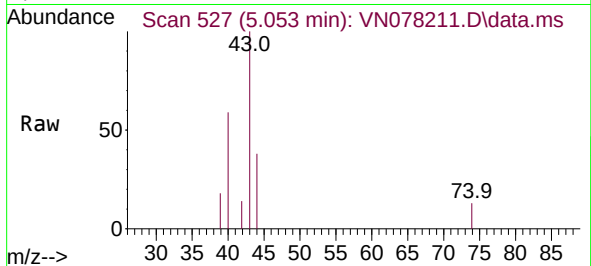




#18
Methyl Acetate
Concen: 0.365 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

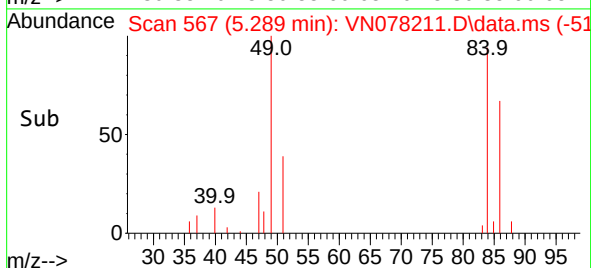
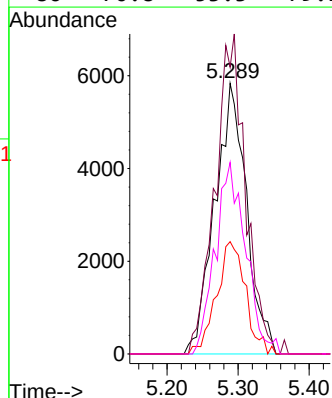
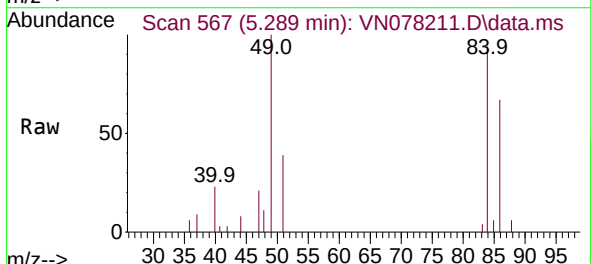
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

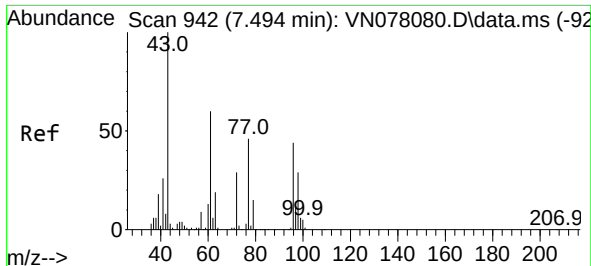
Tgt Ion: 43 Resp: 2862
Ion Ratio Lower Upper
43 100
74 15.8 26.2 39.4#



#20
Methylene Chloride
Concen: 3.200 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

Tgt Ion: 84 Resp: 18029
Ion Ratio Lower Upper
84 100
49 106.0 79.7 119.5
51 41.5 25.2 37.8#
86 70.8 53.3 79.9

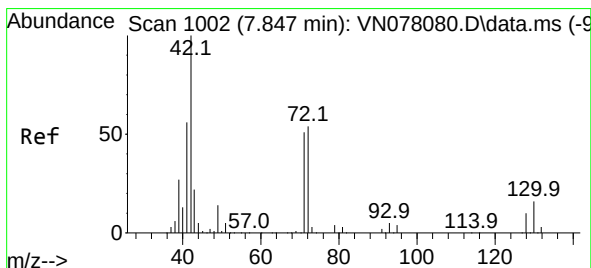
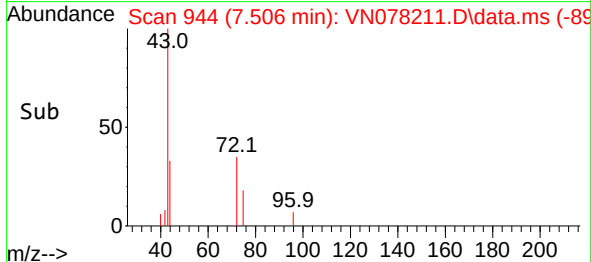
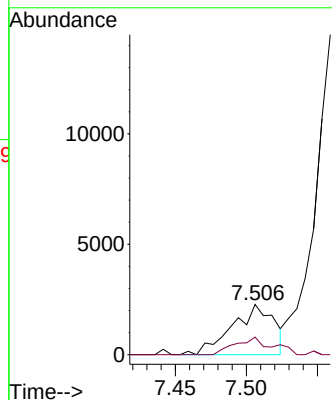
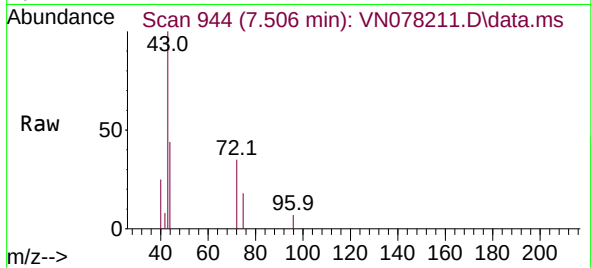




#25
2-Butanone
Concen: 1.778 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

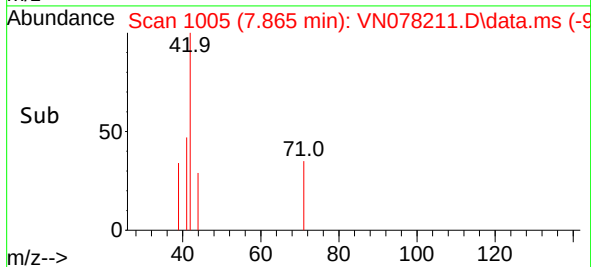
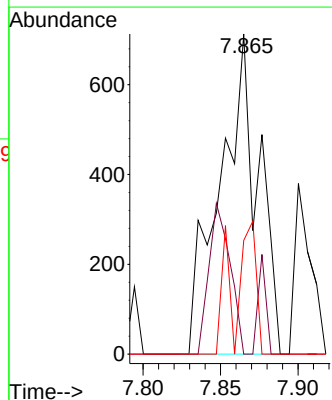
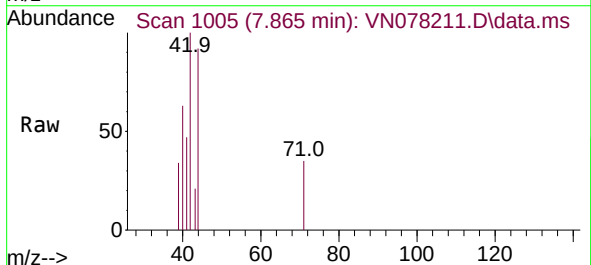
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ClientSampleId :
TP-4-GA

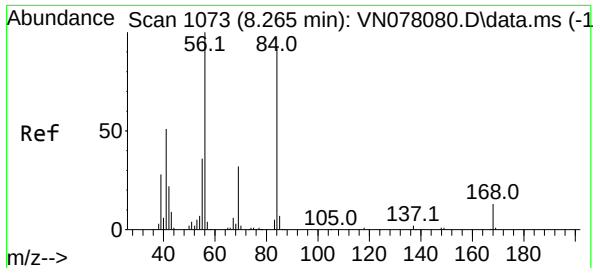
Tgt Ion: 43 Resp: 4662
Ion Ratio Lower Upper
43 100
72 35.0 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.703 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.018 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

Tgt Ion: 42 Resp: 1232
Ion Ratio Lower Upper
42 100
72 6.3 49.8 74.6#
71 23.9 47.4 71.2#

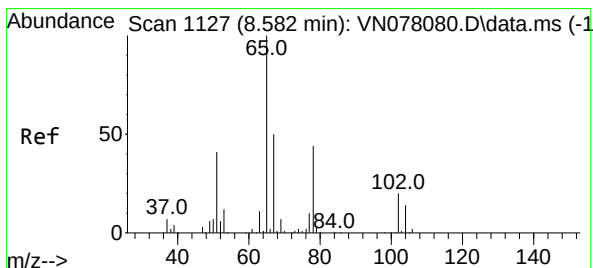
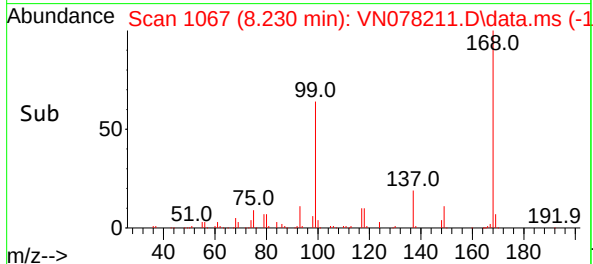
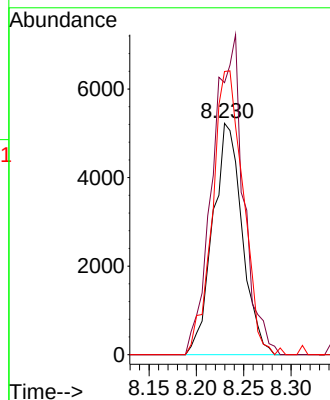
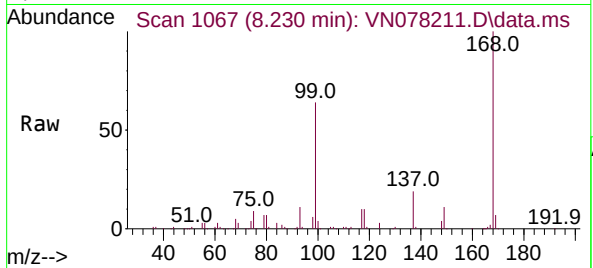




#31
Cyclohexane
Concen: 1.482 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

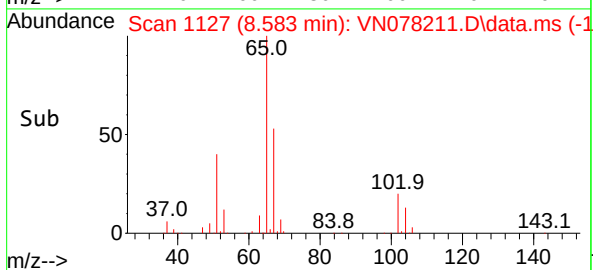
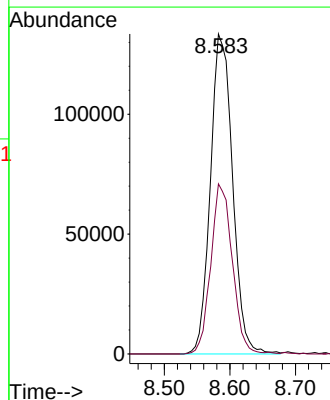
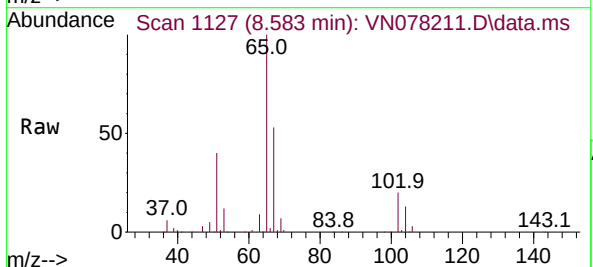
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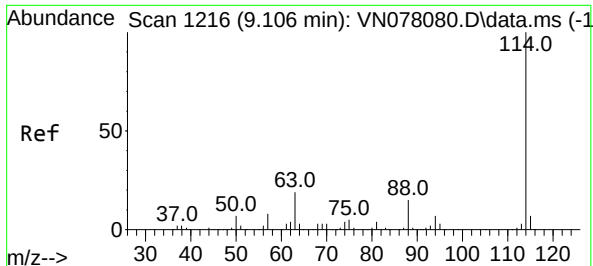
Tgt Ion: 56 Resp: 11258
Ion Ratio Lower Upper
56 100
69 117.5 26.8 40.2#
84 122.4 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 52.885 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

Tgt Ion: 65 Resp: 313271
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: VN078211.D

Acq: 14 Jun 2023 17:21

Instrument :

MSVOA_N

ClientSampleId :

TP-4-GA

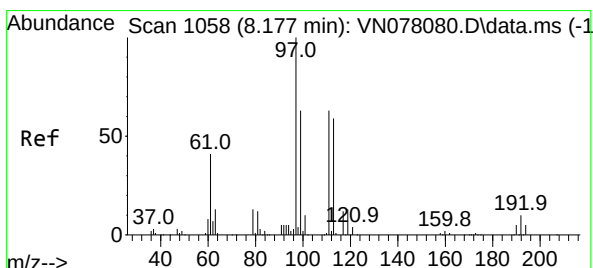
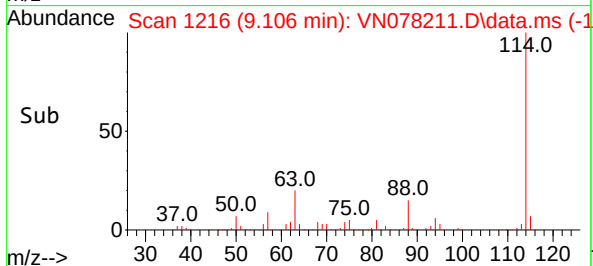
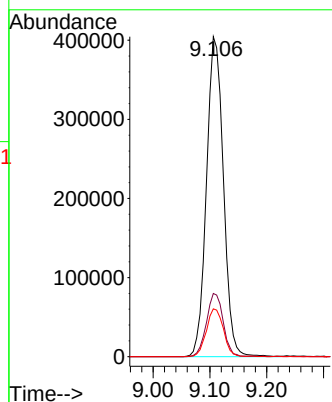
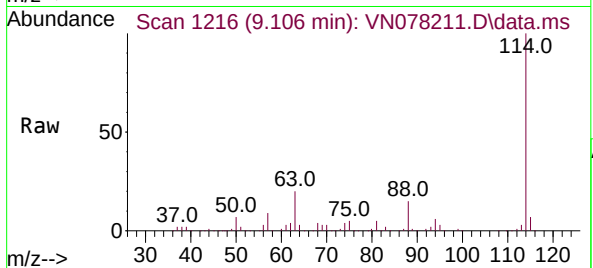
Tgt Ion:114 Resp: 834796

Ion Ratio Lower Upper

114 100

63 19.7 0.0 36.4

88 14.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.841 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VN078211.D

Acq: 14 Jun 2023 17:21

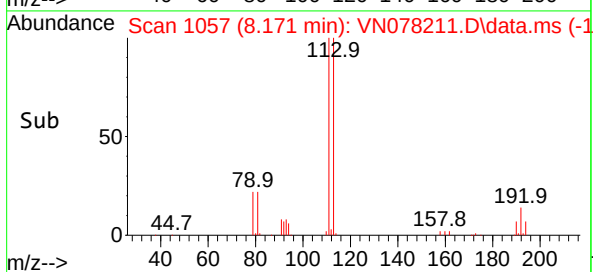
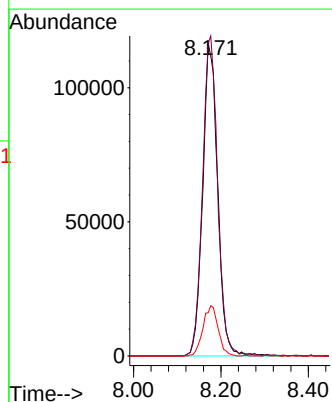
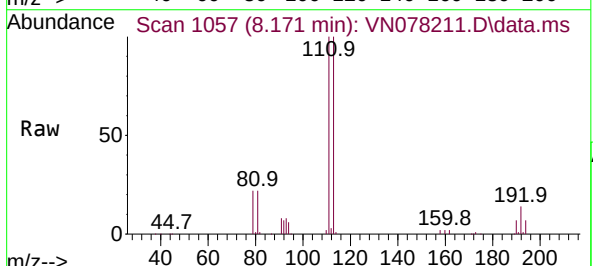
Tgt Ion:113 Resp: 278911

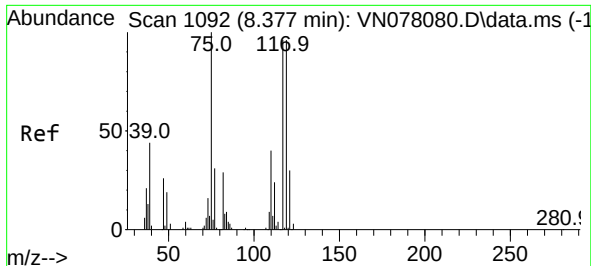
Ion Ratio Lower Upper

113 100

111 102.6 82.6 123.8

192 16.2 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.173 ug/l

RT: 8.230 min Scan# 1092

Delta R.T. -0.147 min

Lab File: VN078211.D

Acq: 14 Jun 2023 17:21

Instrument :

MSVOA_N

ClientSampleId :

TP-4-GA

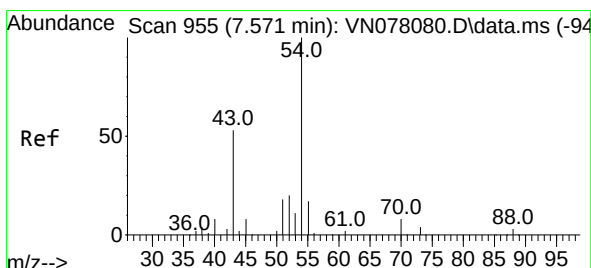
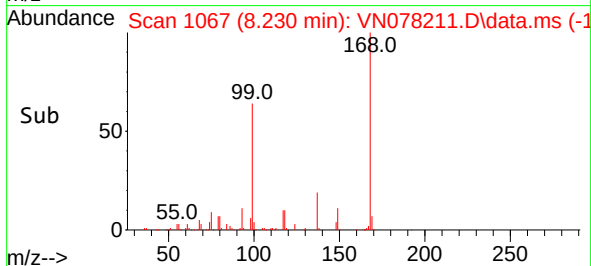
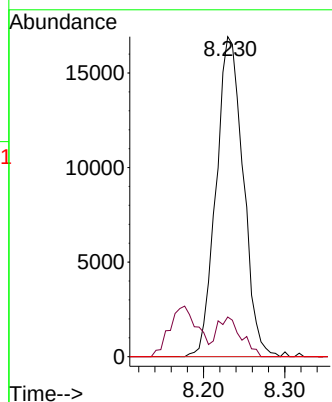
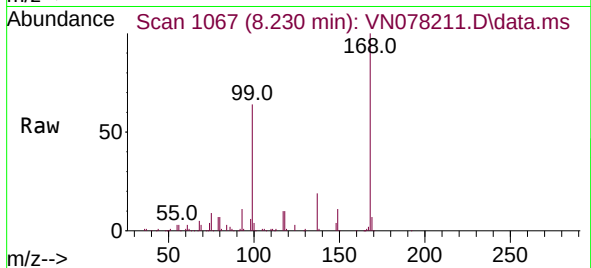
Tgt Ion: 75 Resp: 39163

Ion Ratio Lower Upper

75 100

110 11.2 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 9.604 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.006 min

Lab File: VN078211.D

Acq: 14 Jun 2023 17:21

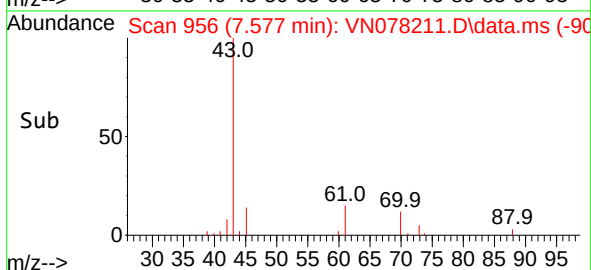
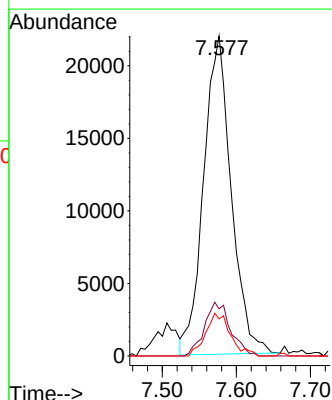
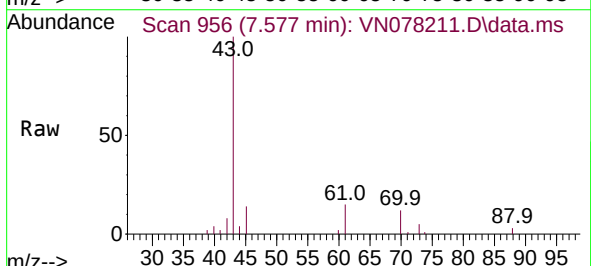
Tgt Ion: 43 Resp: 56806

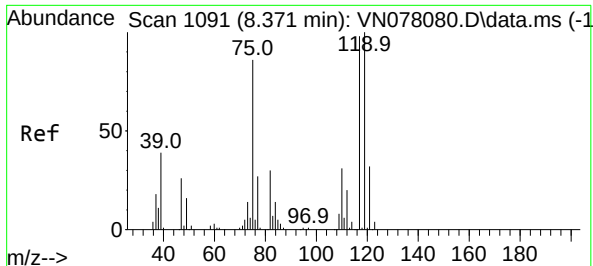
Ion Ratio Lower Upper

43 100

61 15.9 13.2 19.8

70 12.0 11.3 16.9

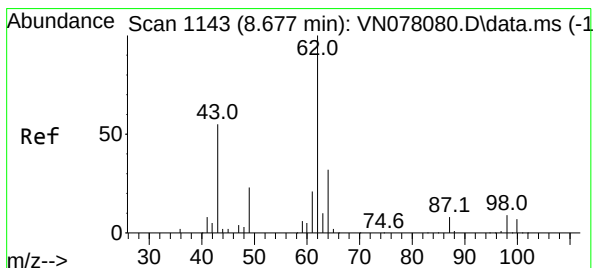
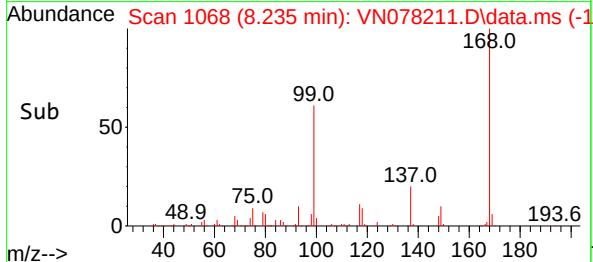
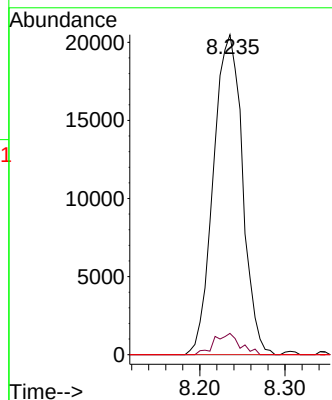
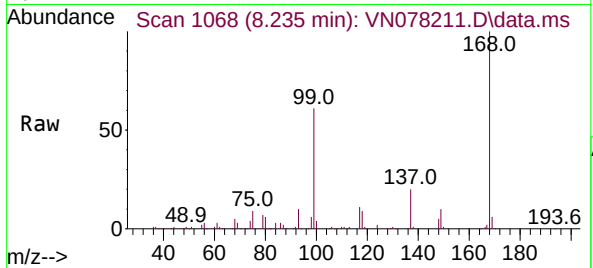




#38
Carbon Tetrachloride
Concen: 6.079 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

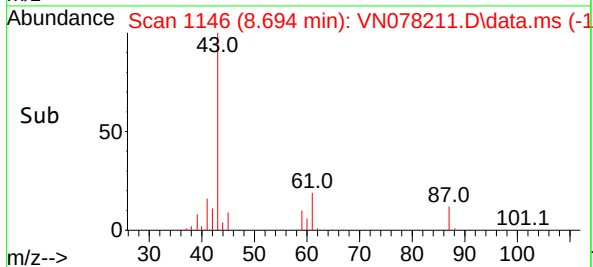
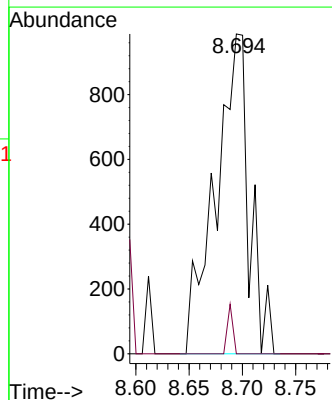
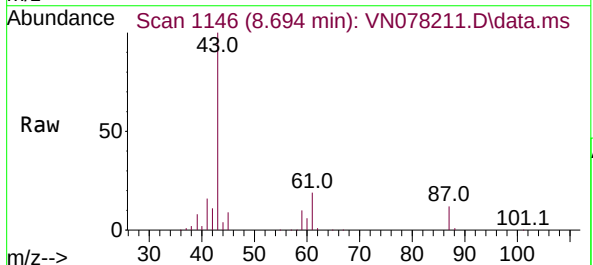
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

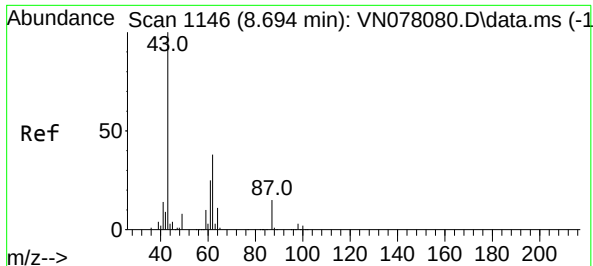
Tgt Ion:117 Resp: 48598
Ion Ratio Lower Upper
117 100
119 6.7 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.278 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.018 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

Tgt Ion: 62 Resp: 2157
Ion Ratio Lower Upper
62 100
98 2.5 0.0 19.8

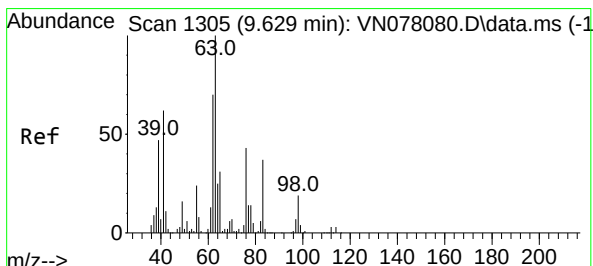
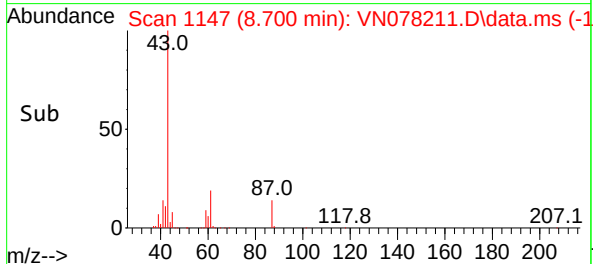
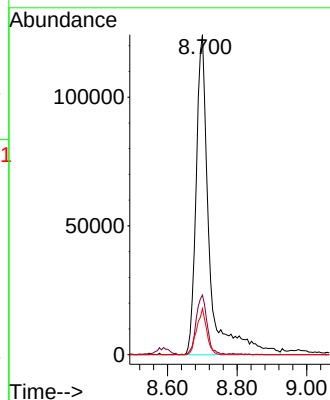
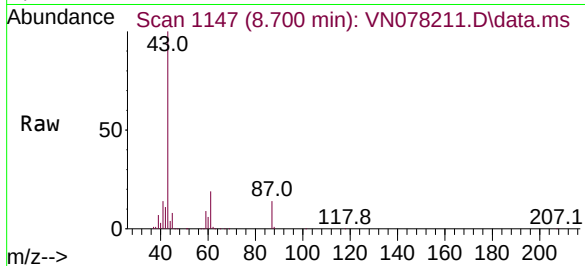




#43
Isopropyl Acetate
Concen: 28.900 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

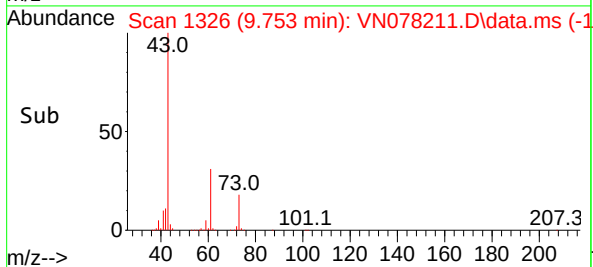
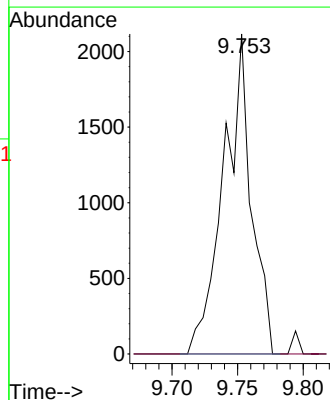
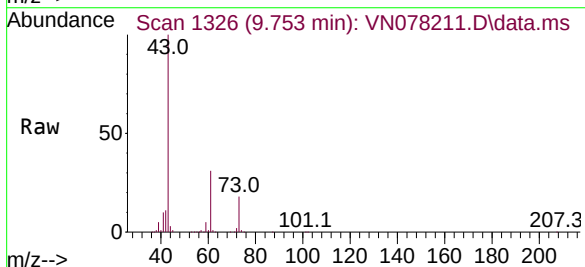
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

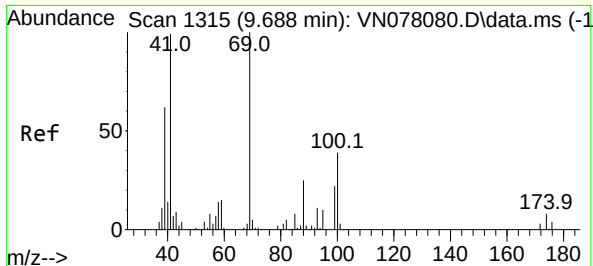
Tgt Ion: 43 Resp: 326898
Ion Ratio Lower Upper
43 100
61 15.5 24.7 37.1#
87 10.9 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.555 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.124 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

Tgt Ion: 63 Resp: 3120
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

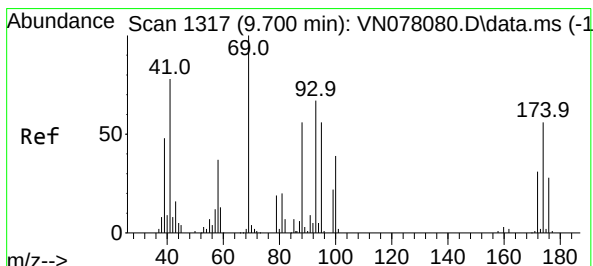
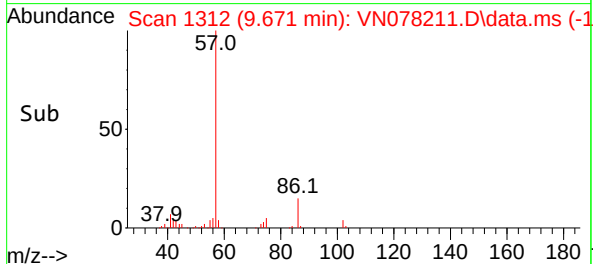
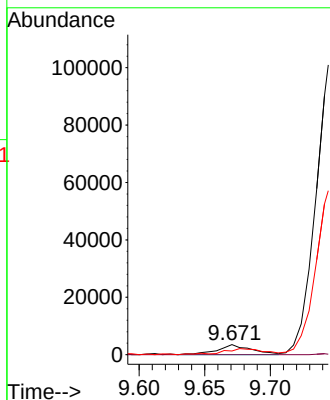
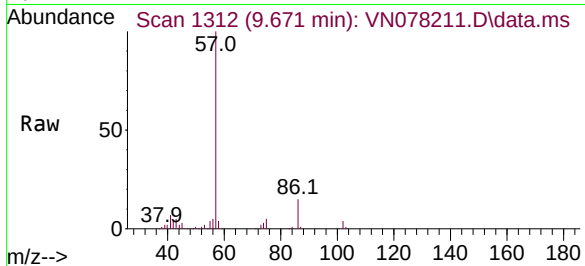




#48
Methyl methacrylate
Concen: 1.331 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

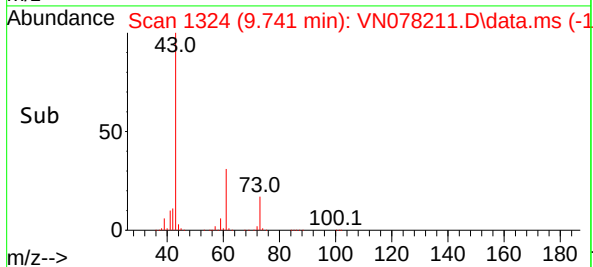
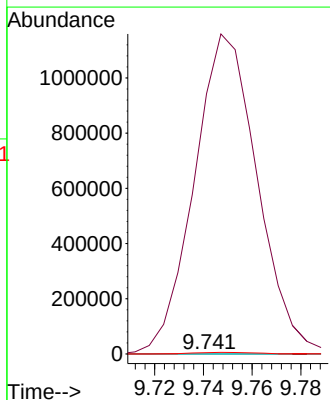
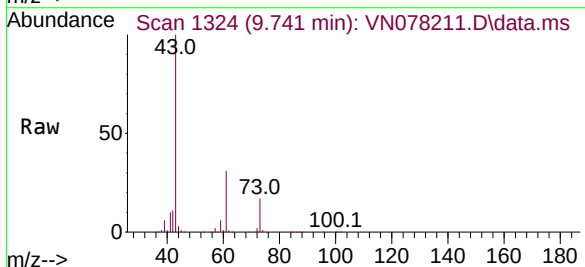
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

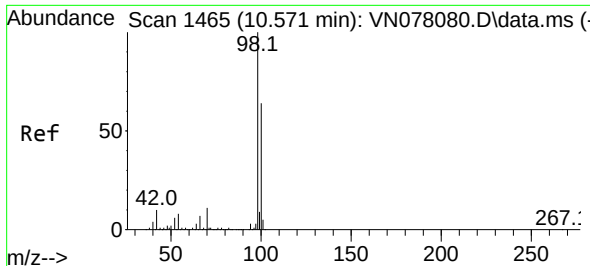
Tgt Ion: 41 Resp: 6316
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 72.4 54.6 81.8



#49
1,4-Dioxane
Concen: 2.305 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.041 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

Tgt Ion: 88 Resp: 230
Ion Ratio Lower Upper
88 100
43 922168.3 17.0 25.6#
58 4740.0 47.0 70.4#

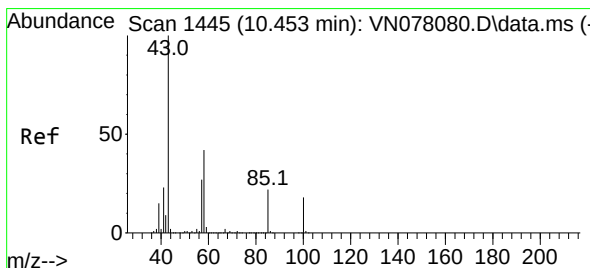
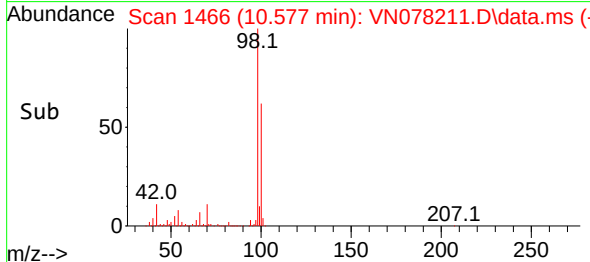
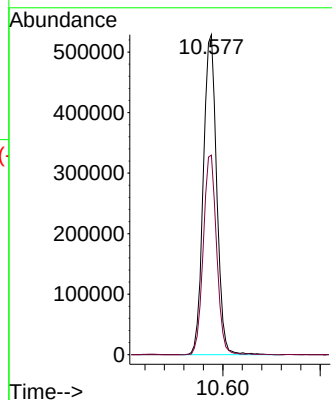
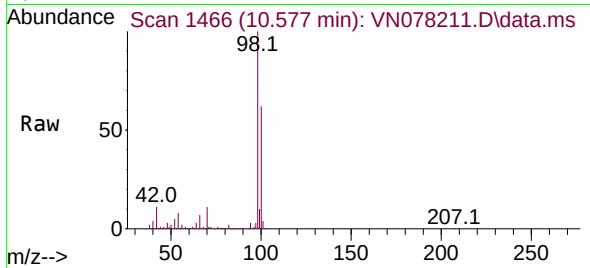




#50
Toluene-d8
Concen: 49.370 ug/l
RT: 10.577 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

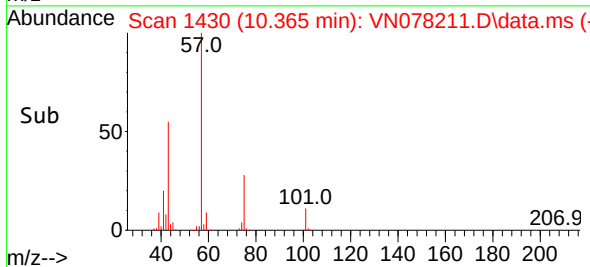
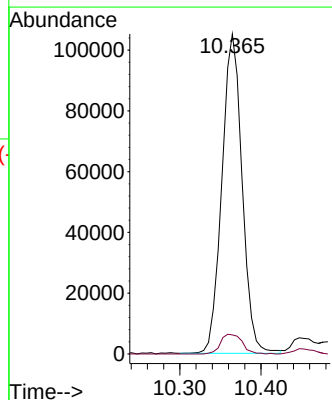
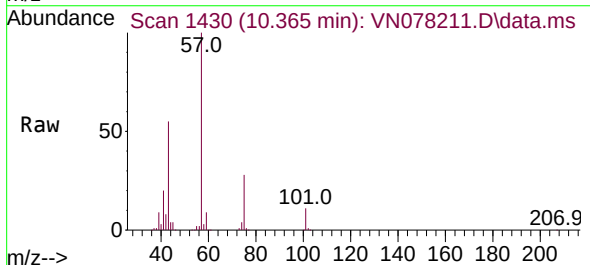
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

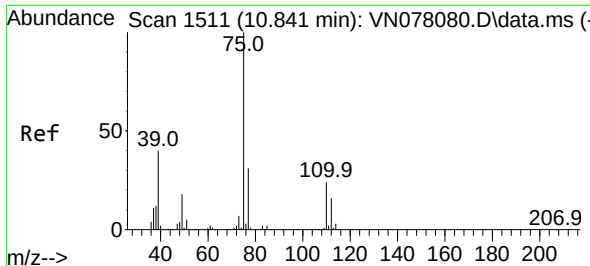
Tgt Ion: 98 Resp: 1004597
Ion Ratio Lower Upper
98 100
100 62.2 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 30.585 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.088 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

Tgt Ion: 43 Resp: 182174
Ion Ratio Lower Upper
43 100
58 6.6 36.6 54.8#

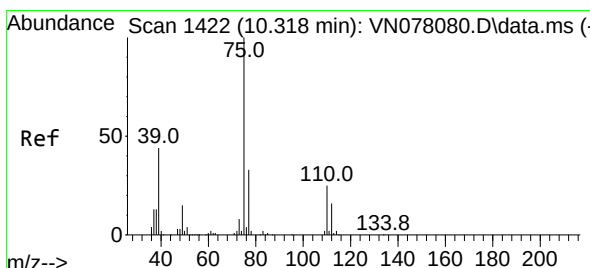
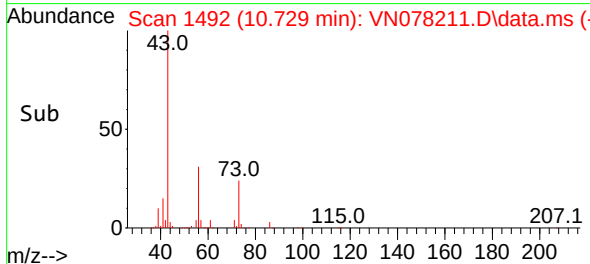
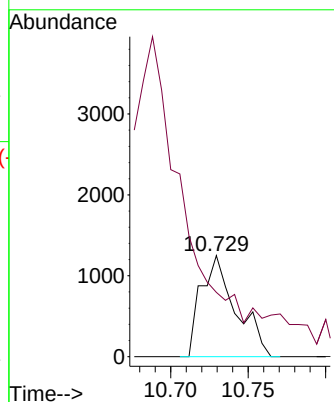
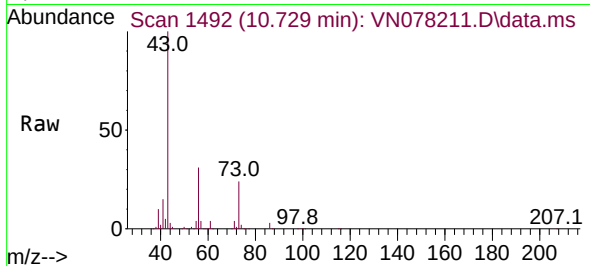




#53
 t-1,3-Dichloropropene
 Concen: 0.243 ug/l
 RT: 10.729 min Scan# 1492
 Delta R.T. -0.112 min
 Lab File: VN078211.D
 Acq: 14 Jun 2023 17:21

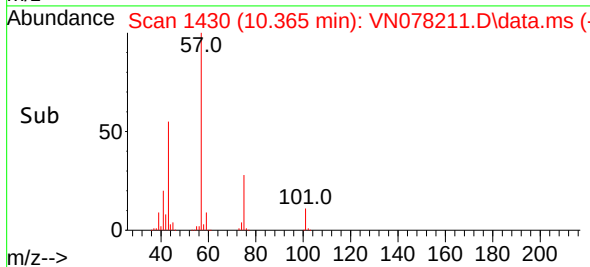
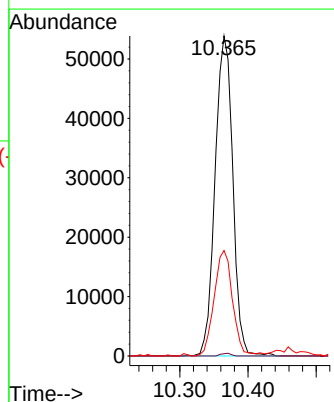
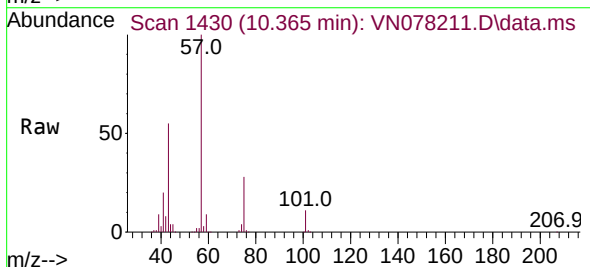
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4-GA

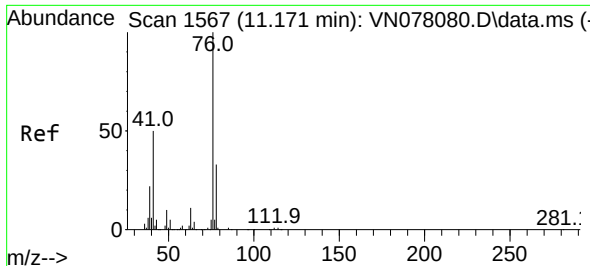
Tgt Ion: 75 Resp: 1950
 Ion Ratio Lower Upper
 75 100
 77 21.4 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 10.990 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN078211.D
 Acq: 14 Jun 2023 17:21

Tgt Ion: 75 Resp: 97347
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 33.0 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.219 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN078211.D

Acq: 14 Jun 2023 17:21

Instrument :

MSVOA_N

ClientSampleId :

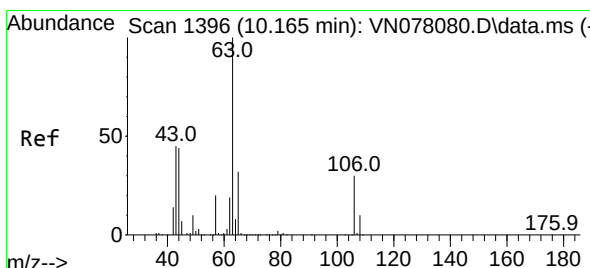
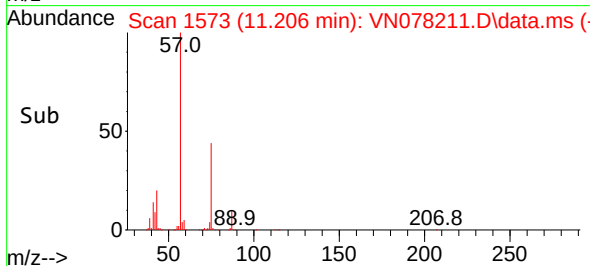
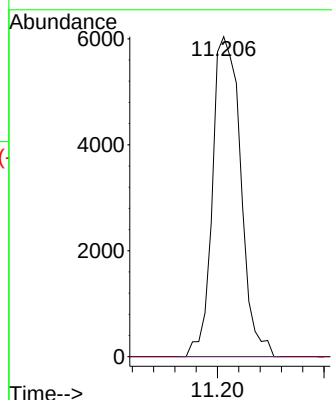
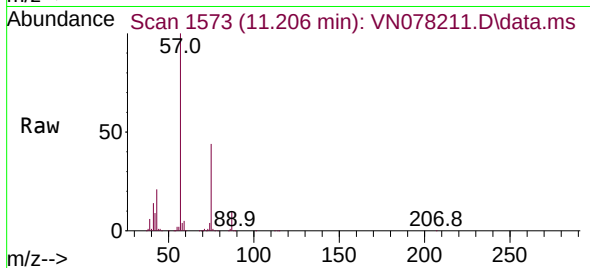
TP-4-GA

Tgt Ion: 76 Resp: 11111

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#58

2-Chloroethyl Vinyl ether

Concen: 0.779 ug/l

RT: 10.171 min Scan# 1397

Delta R.T. 0.006 min

Lab File: VN078211.D

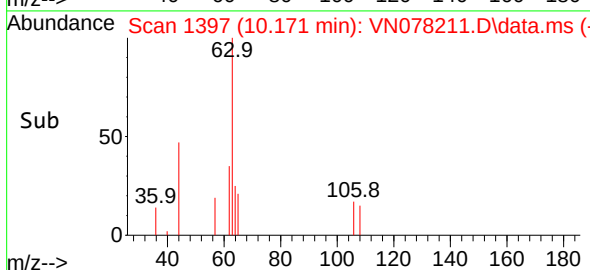
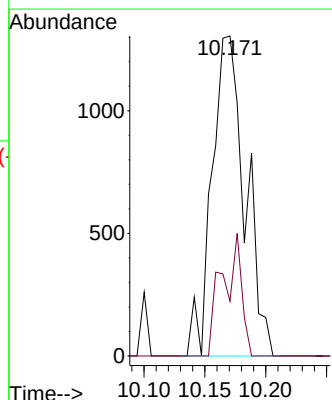
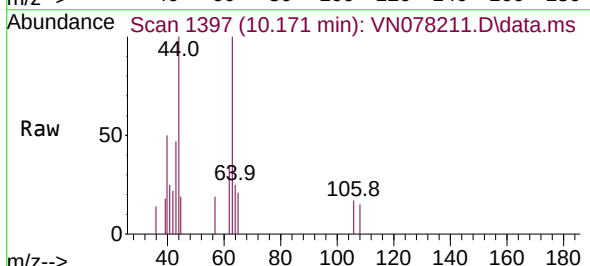
Acq: 14 Jun 2023 17:21

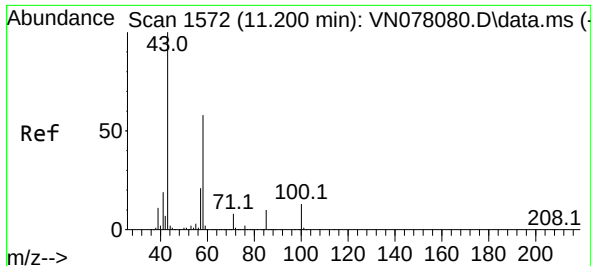
Tgt Ion: 63 Resp: 2474

Ion Ratio Lower Upper

63 100

106 22.2 26.2 39.4#

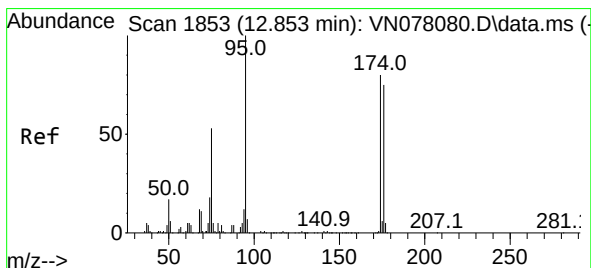
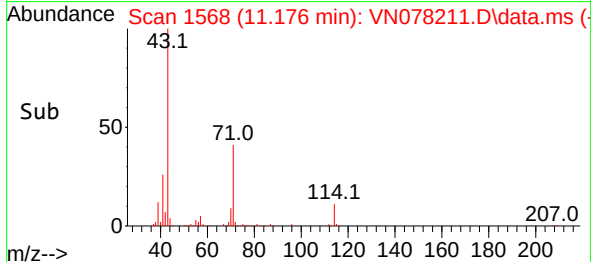
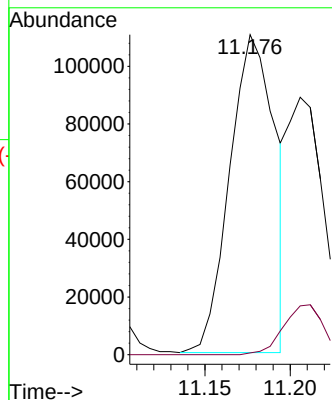
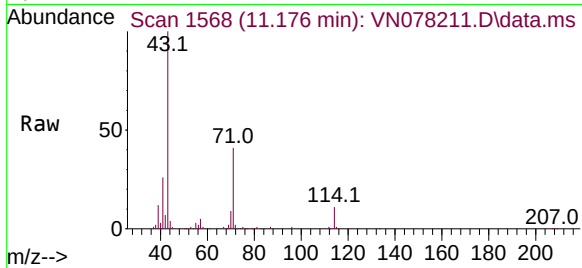




#59
2-Hexanone
Concen: 49.035 ug/l
RT: 11.176 min Scan# 11176
Delta R.T. -0.023 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

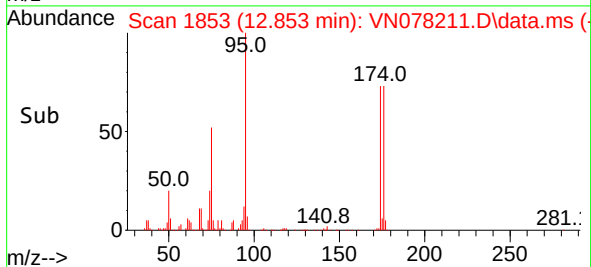
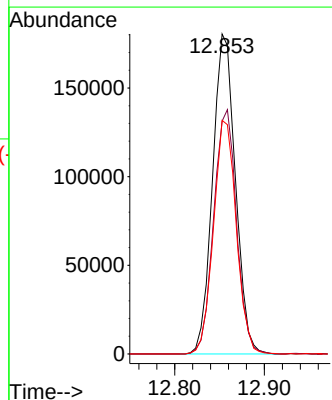
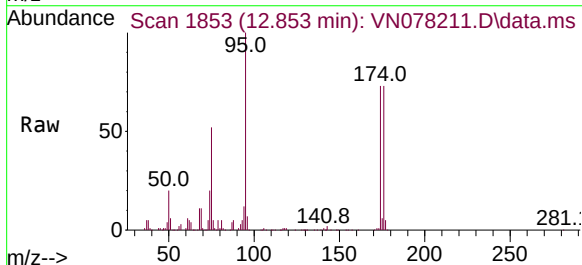
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

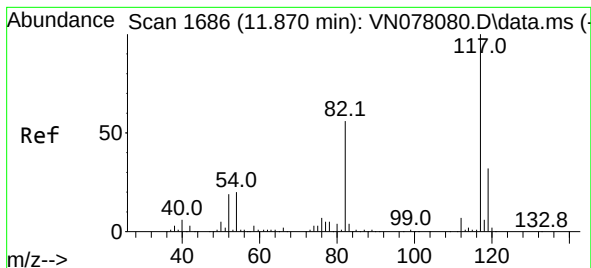
Tgt Ion: 43 Resp: 203366
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 50.364 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

Tgt Ion: 95 Resp: 318592
Ion Ratio Lower Upper
95 100
174 76.4 0.0 143.8
176 73.0 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078211.D

Acq: 14 Jun 2023 17:21

Instrument :

MSVOA_N

ClientSampleId :

TP-4-GA

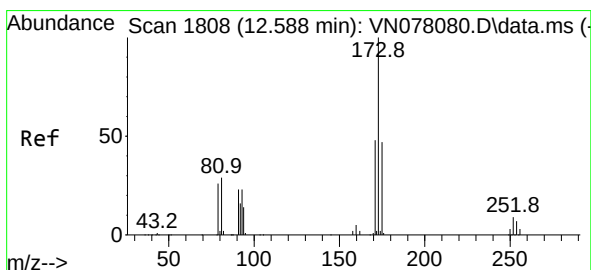
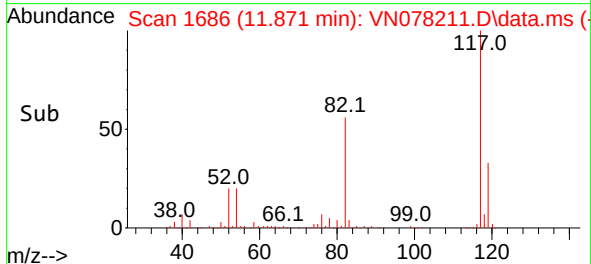
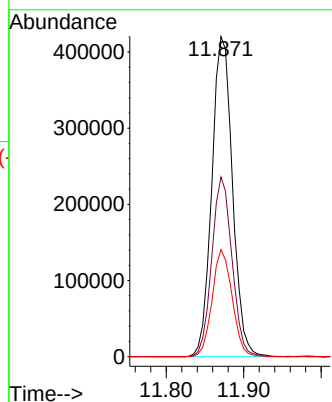
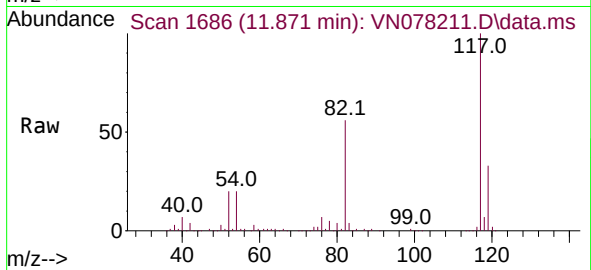
Tgt Ion:117 Resp: 777968

Ion Ratio Lower Upper

117 100

82 56.2 44.0 66.0

119 33.5 25.6 38.4



#71

Bromoform

Concen: 0.625 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.265 min

Lab File: VN078211.D

Acq: 14 Jun 2023 17:21

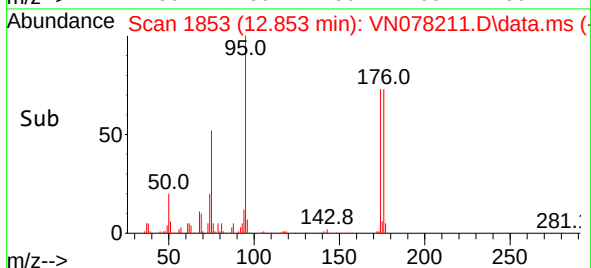
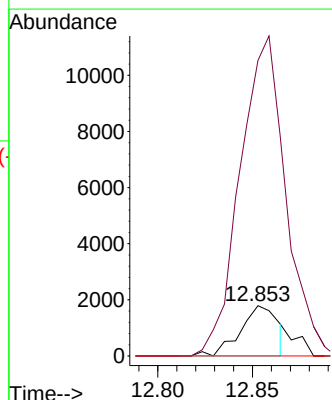
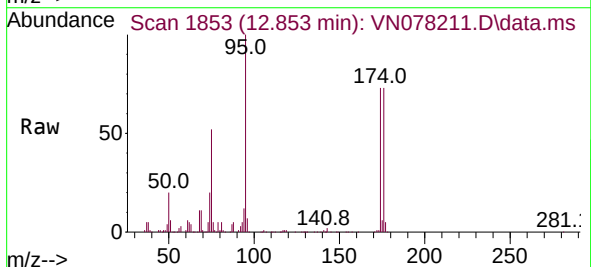
Tgt Ion:173 Resp: 2473

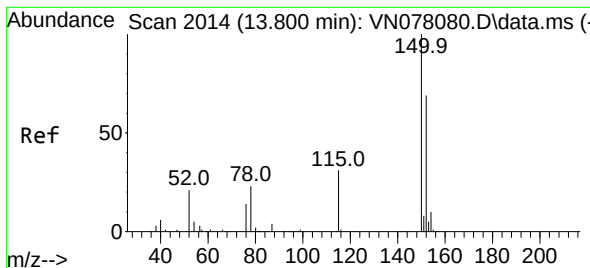
Ion Ratio Lower Upper

173 100

175 665.9 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: VN078211.D

Acq: 14 Jun 2023 17:21

Instrument :

MSVOA_N

ClientSampleId :

TP-4-GA

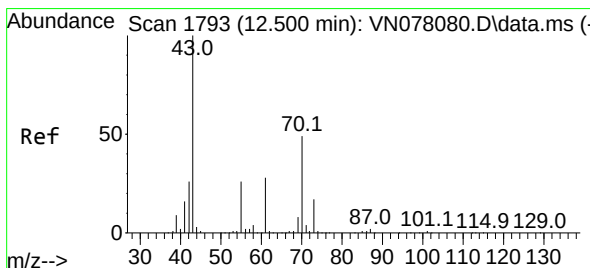
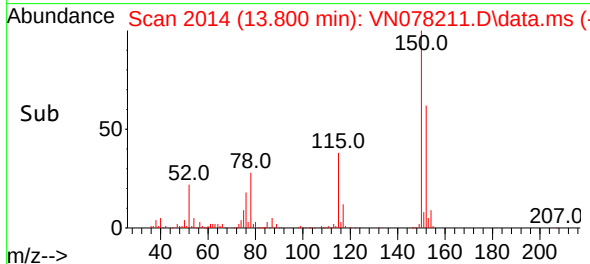
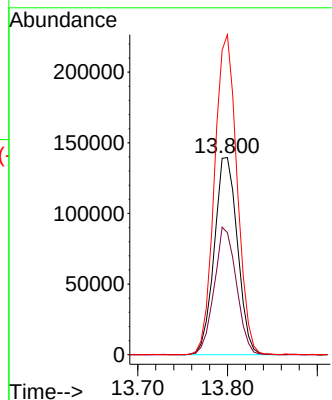
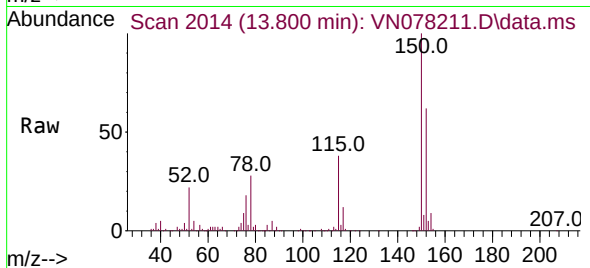
Tgt Ion:152 Resp: 250220

Ion Ratio Lower Upper

152 100

115 62.0 32.3 96.8

150 157.7 0.0 355.8



#74

N-ethyl acetate

Concen: 6.038 ug/l

RT: 12.312 min Scan# 1761

Delta R.T. -0.188 min

Lab File: VN078211.D

Acq: 14 Jun 2023 17:21

Tgt Ion: 43 Resp: 47049

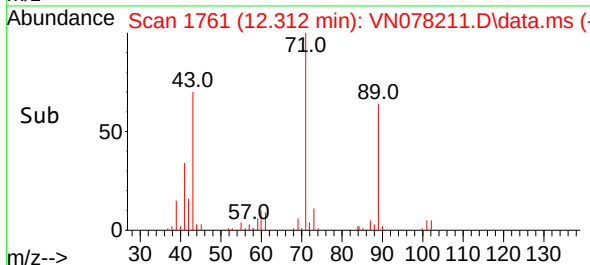
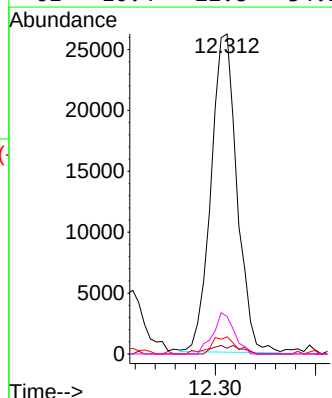
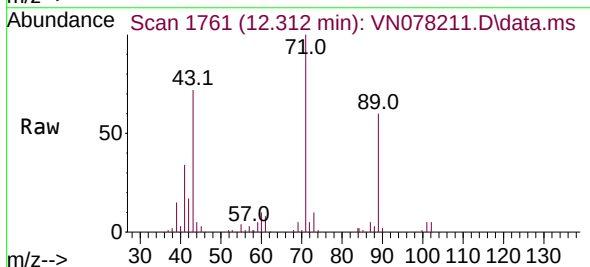
Ion Ratio Lower Upper

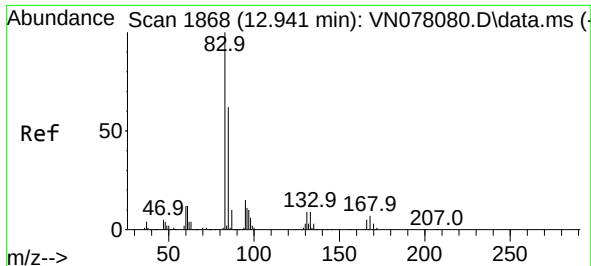
43 100

70 2.9 43.4 65.2#

55 5.5 21.4 32.0#

61 10.4 22.8 34.2#

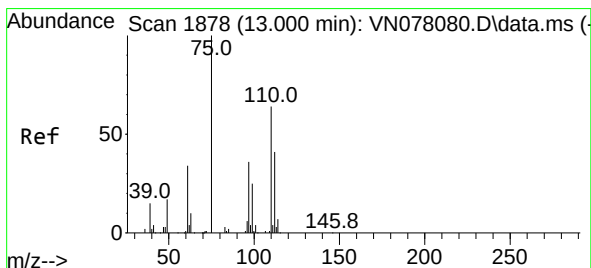
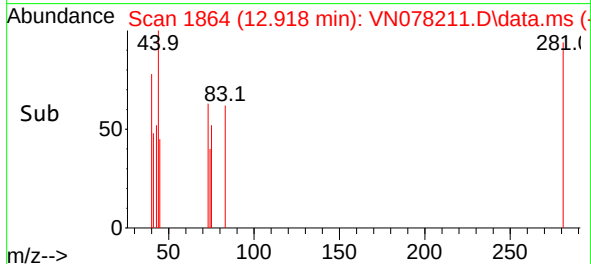
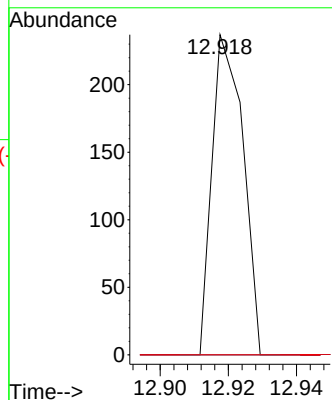
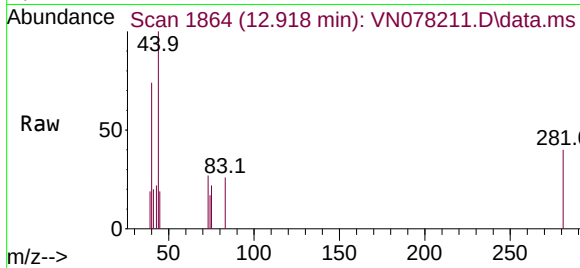




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.918 min Scan# 1864
Delta R.T. -0.023 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

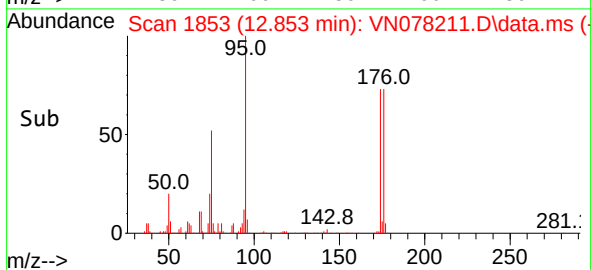
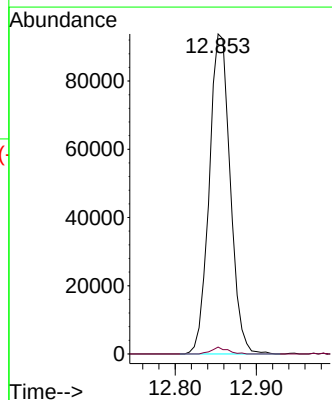
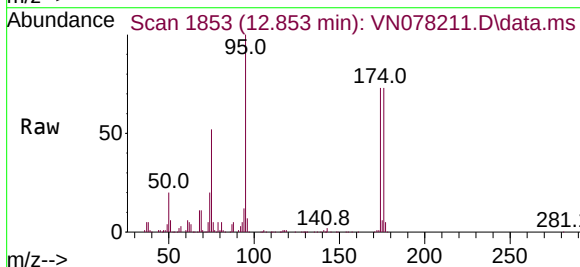
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

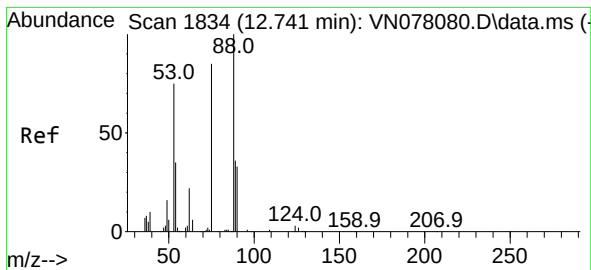
Tgt Ion: 83 Resp: 150
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 28.457 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078211.D
Acq: 14 Jun 2023 17:21

Tgt Ion: 75 Resp: 168332
Ion Ratio Lower Upper
75 100
77 1.6 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.429 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078211.D
 Acq: 14 Jun 2023 17:21

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4-GA

Tgt Ion: 75 Resp: 168332
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

