

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110123\
 Data File : VN079784.D
 Acq On : 01 Nov 2023 20:18
 Operator : JC\MD
 Sample : 05164-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ETGI-352

Quant Time: Nov 02 06:00:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

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

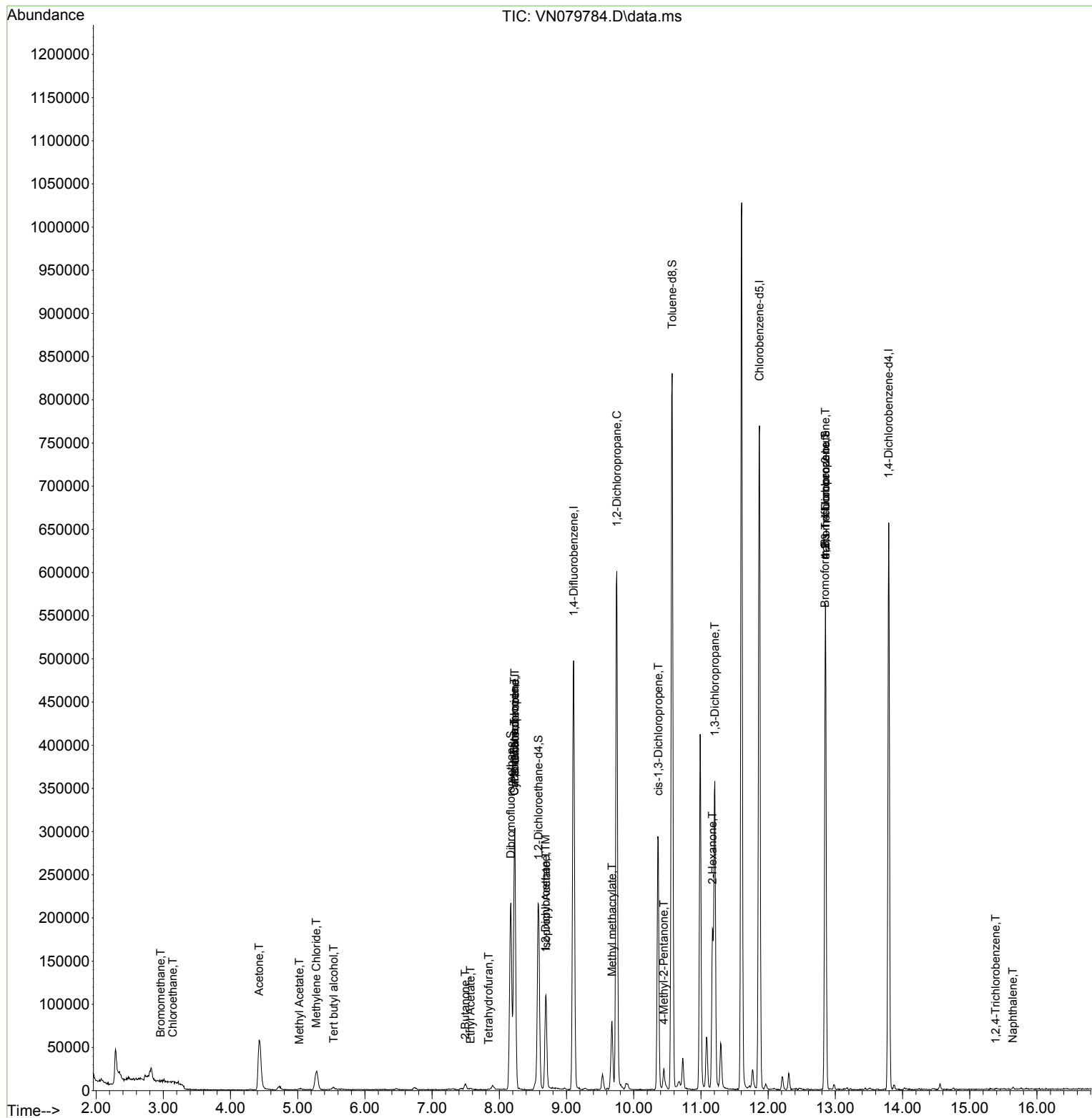
Internal Standards						
1) Pentafluorobenzene	8.230	168	215278	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	416731	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	441711	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	164037	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	178813	54.519	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.040%			
35) Dibromofluoromethane	8.171	113	151120	51.237	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.480%			
50) Toluene-d8	10.571	98	564987	52.034	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.060%			
62) 4-Bromofluorobenzene	12.853	95	181747	50.470	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.940%			
Target Compounds					Qvalue	
3) Chloromethane	2.360	50	1875	Below Cal		89
5) Bromomethane	2.960	94	719	0.349	ug/l	87
6) Chloroethane	3.142	64	1660	0.619	ug/l #	43
11) Tert butyl alcohol	5.536	59	3154	7.533	ug/l #	83
16) Acetone	4.424	43	114533	99.415	ug/l	94
18) Methyl Acetate	5.024	43	1171	0.212	ug/l #	54
20) Methylene Chloride	5.277	84	16287	5.603	ug/l #	83
25) 2-Butanone	7.495	43	10714	6.351	ug/l	93
29) Tetrahydrofuran	7.842	42	306	0.279	ug/l #	20
31) Cyclohexane	8.224	56	5289	1.220	ug/l #	44
36) 1,1-Dichloropropene	8.230	75	18681	4.436	ug/l #	48
37) Ethyl Acetate	7.571	43	3043	0.788	ug/l #	74
38) Carbon Tetrachloride	8.224	117	23246	5.477	ug/l #	16
42) 1,2-Dichloroethane	8.689	62	941	0.214	ug/l #	73
43) Isopropyl Acetate	8.695	43	121768	17.978	ug/l #	82
45) 1,2-Dichloropropane	9.747	63	719	0.223	ug/l #	45
48) Methyl methacrylate	9.677	41	4858	1.637	ug/l #	30
51) 4-Methyl-2-Pentanone	10.447	43	18684	4.900	ug/l #	78
54) cis-1,3-Dichloropropene	10.365	75	52589	10.485	ug/l #	72
57) 1,3-Dichloropropane	11.206	76	3596	0.678	ug/l #	42
59) 2-Hexanone	11.171	43	198963	68.204	ug/l #	19
71) Bromoform	12.847	173	1725	0.704	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	101548	26.369	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	101548	71.743	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.388	180	555	0.218	ug/l #	78
95) Naphthalene	15.641	128	2301	0.267	ug/l #	86

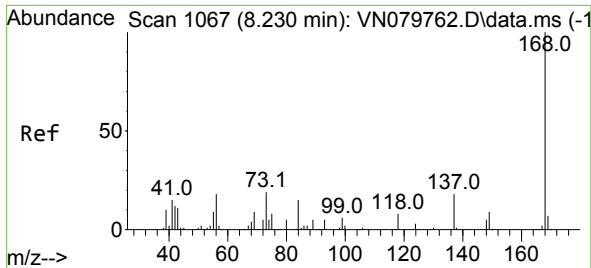
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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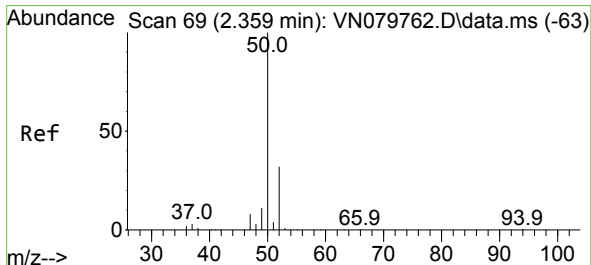
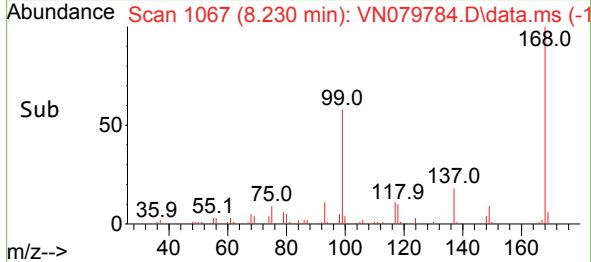
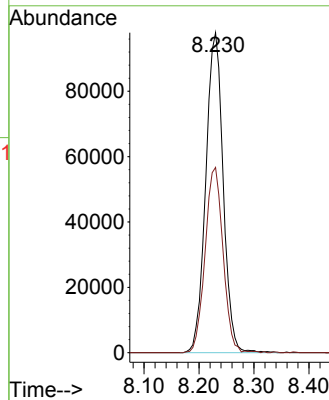
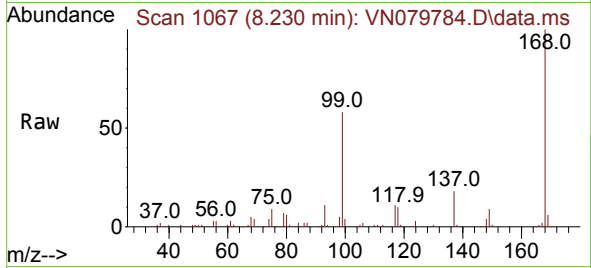




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. 0.001 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

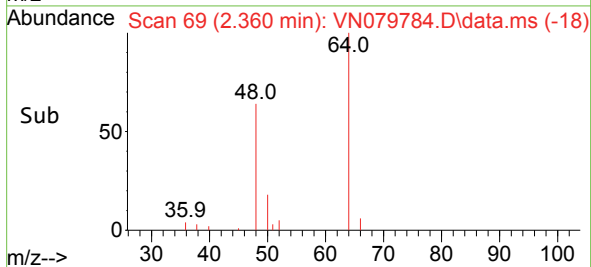
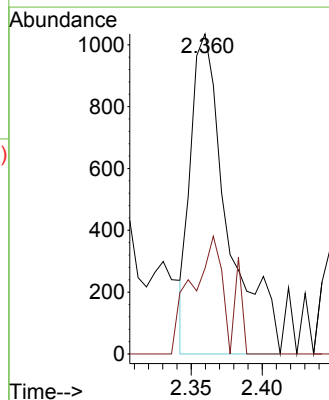
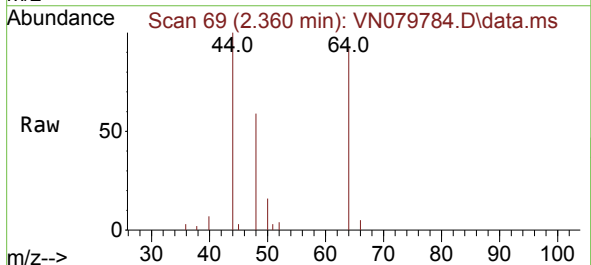
Instrument :
MSVOA_N
ClientSampleId :
ETGI-352

Tgt Ion:168 Resp: 215278
Ion Ratio Lower Upper
168 100
99 57.9 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.360 min Scan# 69
Delta R.T. 0.001 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

Tgt Ion: 50 Resp: 1875
Ion Ratio Lower Upper
50 100
52 26.8 26.5 39.7

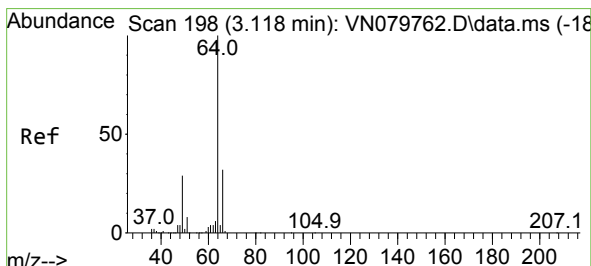
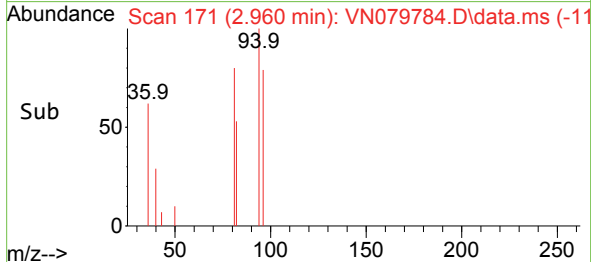
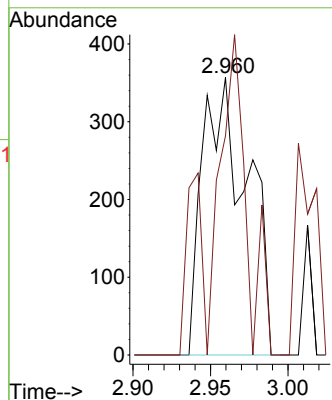
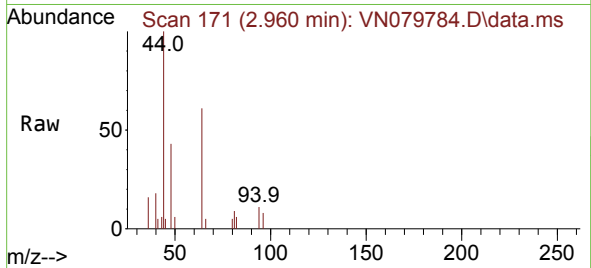




#5
Bromomethane
Concen: 0.349 ug/l
RT: 2.960 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

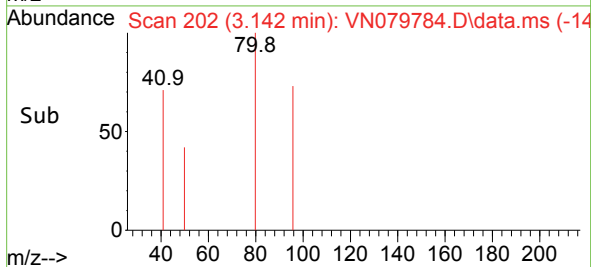
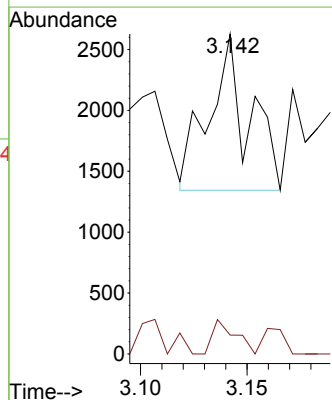
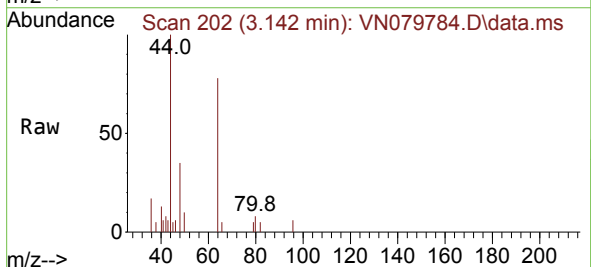
Instrument :
MSVOA_N
ClientSampleId :
ETGI-352

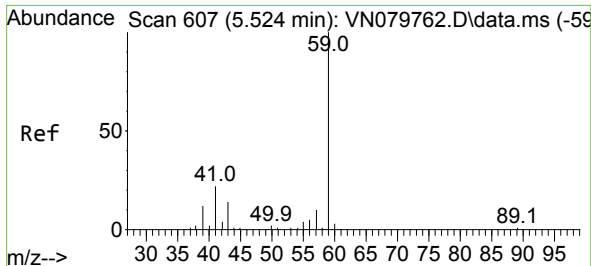
Tgt Ion: 94 Resp: 719
Ion Ratio Lower Upper
94 100
96 79.0 73.1 109.7



#6
Chloroethane
Concen: 0.619 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.024 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

Tgt Ion: 64 Resp: 1660
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

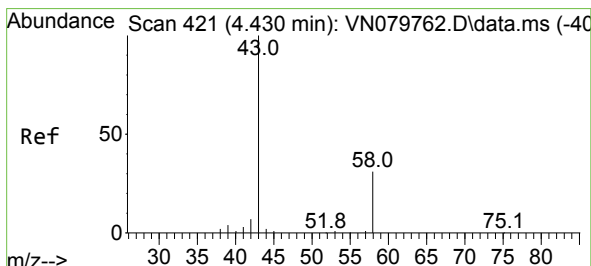
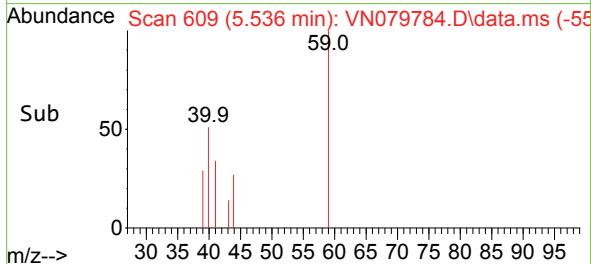
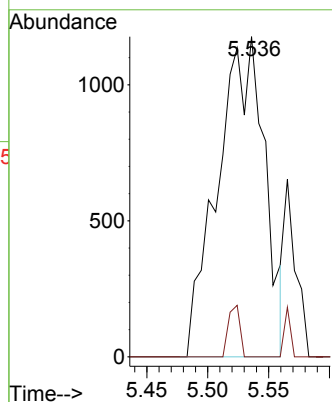
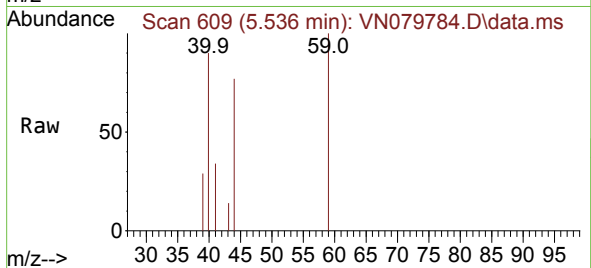




#11
Tert butyl alcohol
Concen: 7.533 ug/l
RT: 5.536 min Scan# 607
Delta R.T. 0.018 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

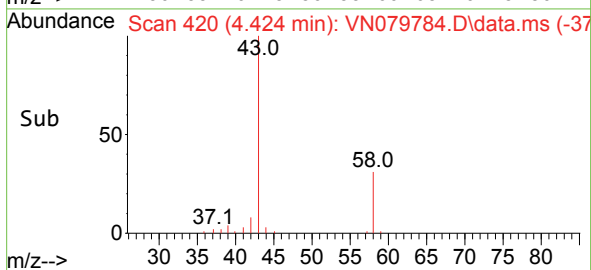
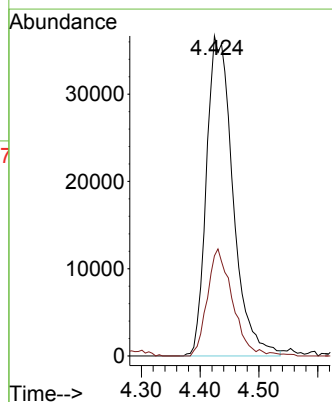
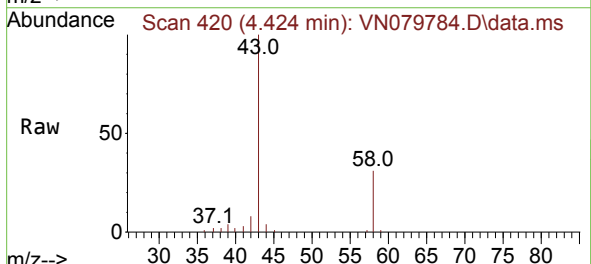
Instrument :
MSVOA_N
ClientSampleId :
ETGI-352

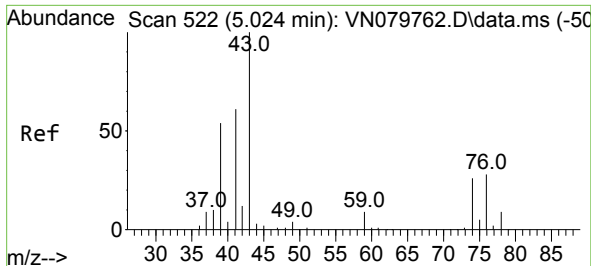
Tgt Ion: 59 Resp: 3154
Ion Ratio Lower Upper
59 100
57 4.0 8.2 12.4#



#16
Acetone
Concen: 99.415 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.005 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

Tgt Ion: 43 Resp: 114533
Ion Ratio Lower Upper
43 100
58 31.3 28.0 42.0

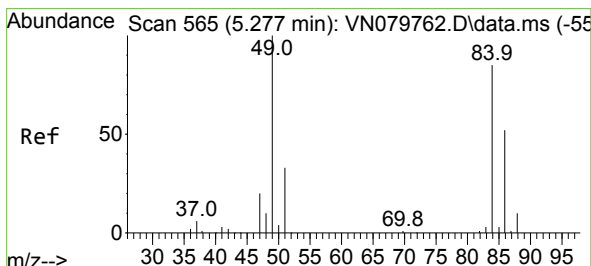
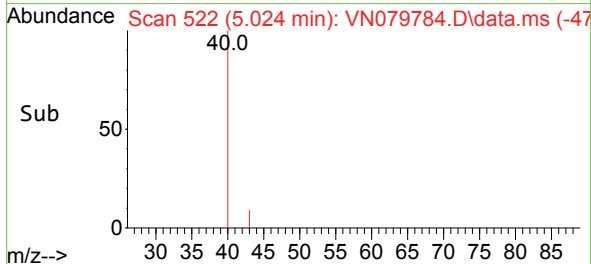
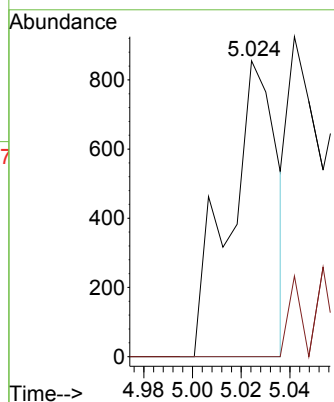
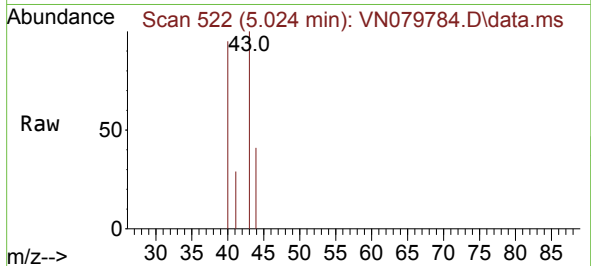




#18
Methyl Acetate
Concen: 0.212 ug/l
RT: 5.024 min Scan# 511
Delta R.T. 0.000 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

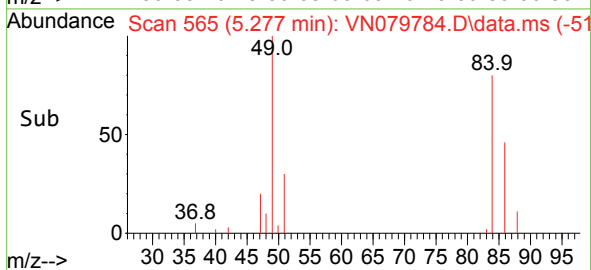
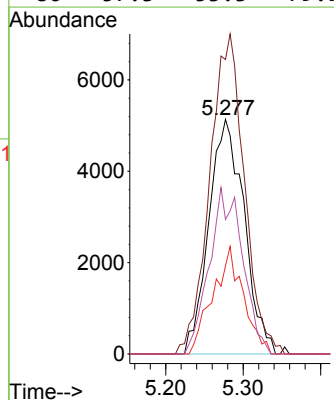
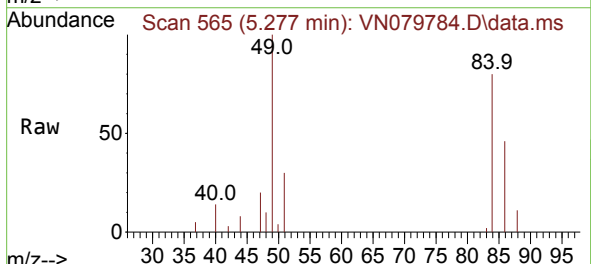
Instrument :
MSVOA_N
ClientSampleId :
ETGI-352

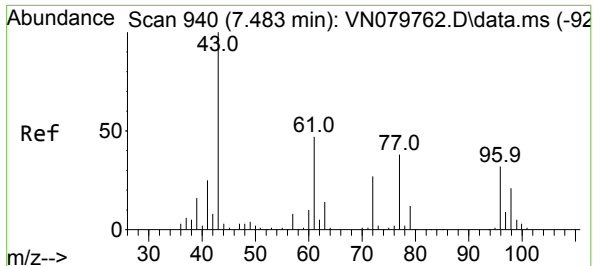
Tgt Ion: 43 Resp: 1171
Ion Ratio Lower Upper
43 100
74 7.0 26.2 39.4#



#20
Methylene Chloride
Concen: 5.603 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

Tgt Ion: 84 Resp: 16287
Ion Ratio Lower Upper
84 100
49 121.9 79.7 119.5#
51 37.5 25.2 37.8
86 57.3 53.3 79.9

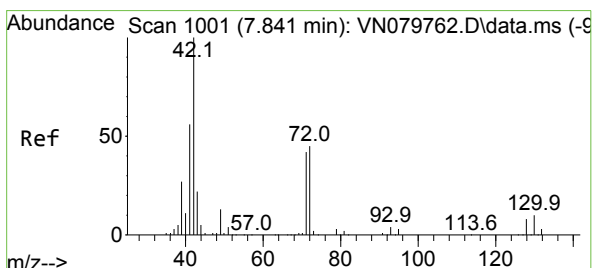
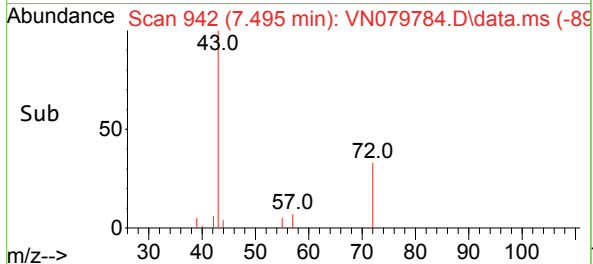
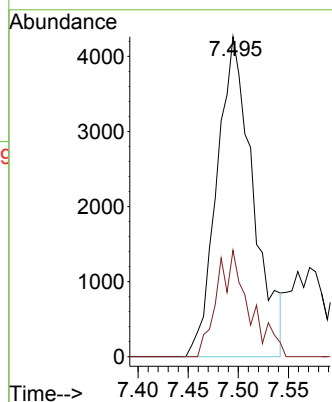
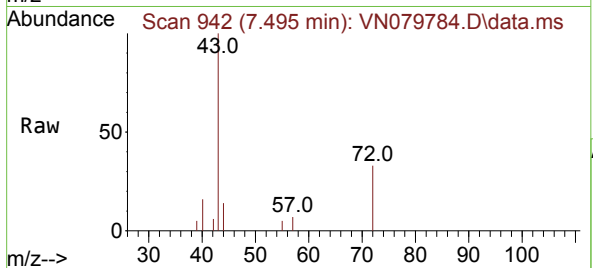




#25
2-Butanone
Concen: 6.351 ug/l
RT: 7.495 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

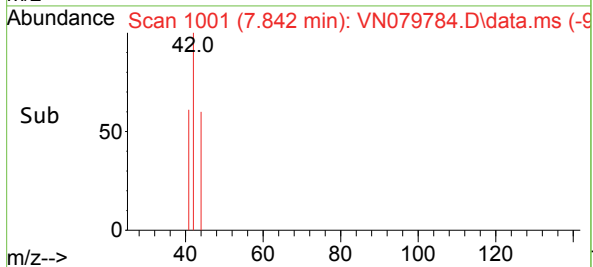
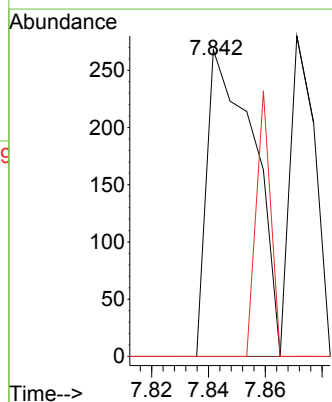
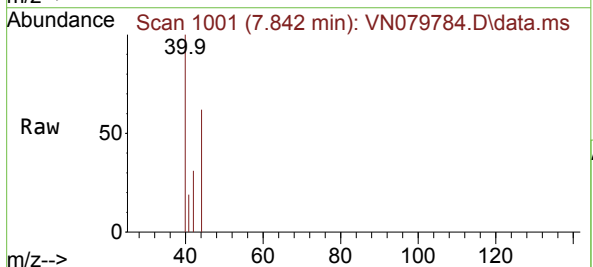
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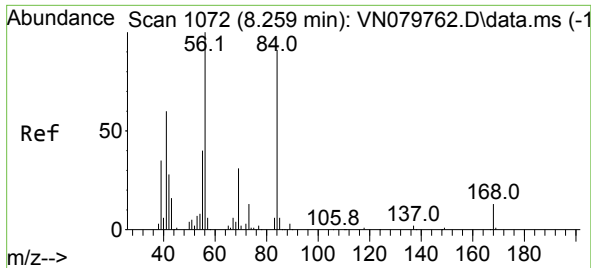
Tgt Ion: 43 Resp: 10714
Ion Ratio Lower Upper
43 100
72 33.3 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.279 ug/l
RT: 7.842 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

Tgt Ion: 42 Resp: 306
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#

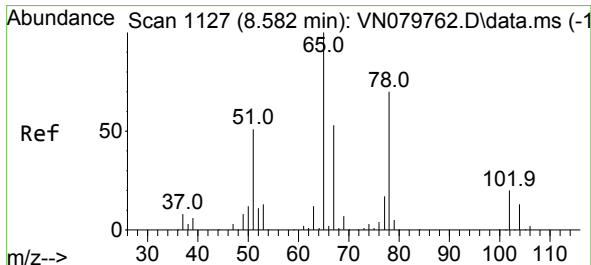
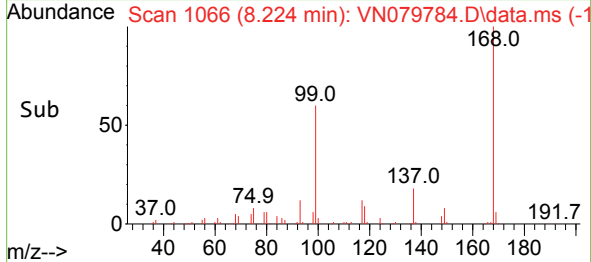
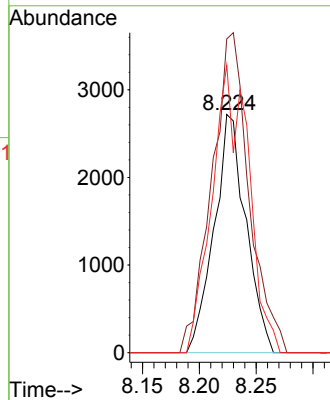
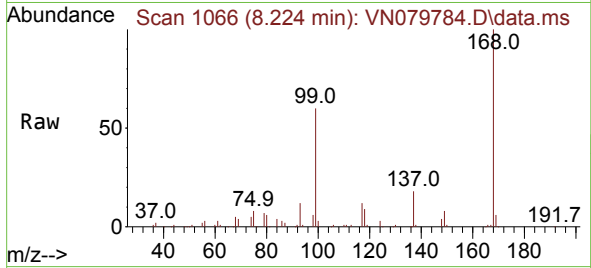




#31
Cyclohexane
Concen: 1.220 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

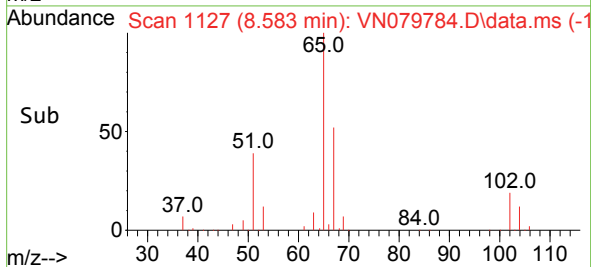
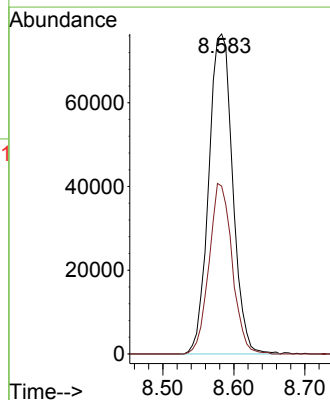
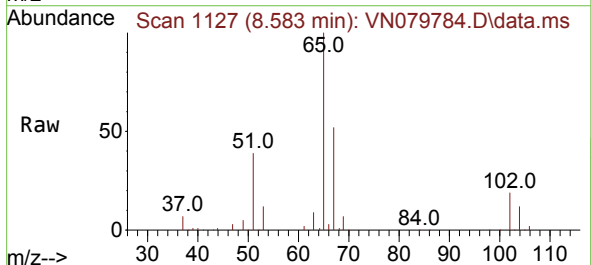
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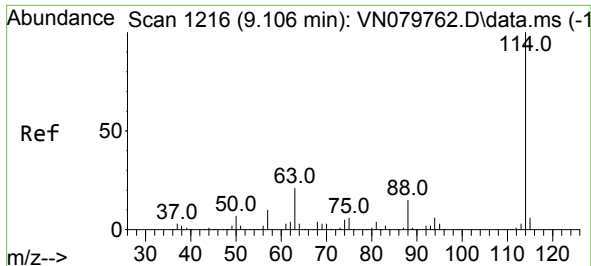
Tgt Ion: 56 Resp: 5289
Ion Ratio Lower Upper
56 100
69 131.7 26.8 40.2#
84 120.8 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 54.519 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

Tgt Ion: 65 Resp: 178813
Ion Ratio Lower Upper
65 100
67 51.4 0.0 106.6

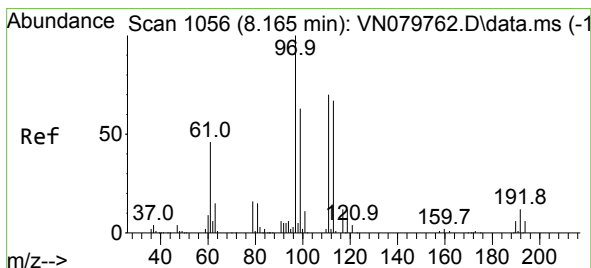
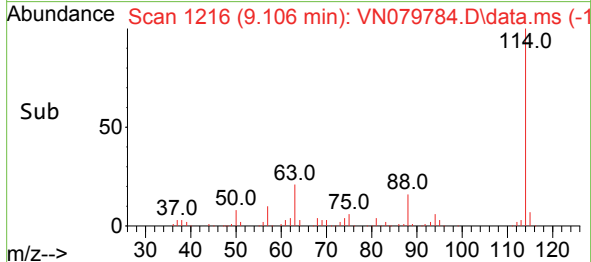
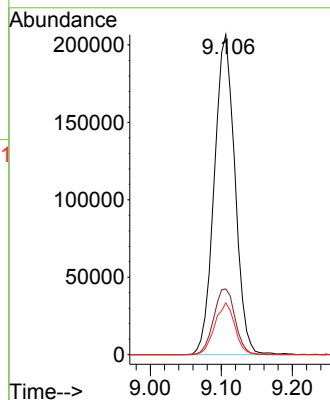
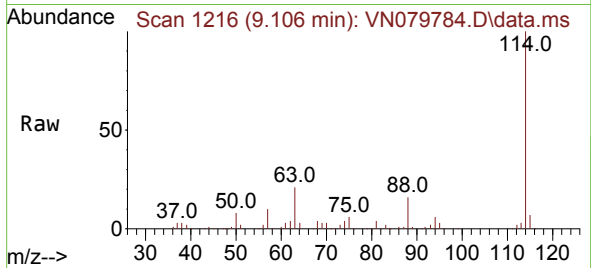




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

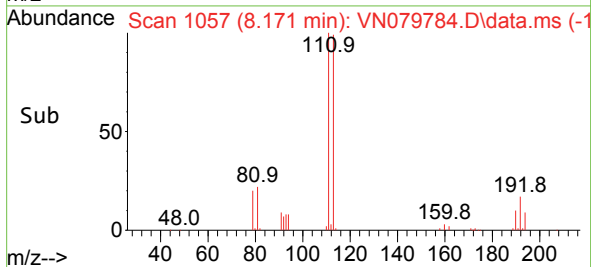
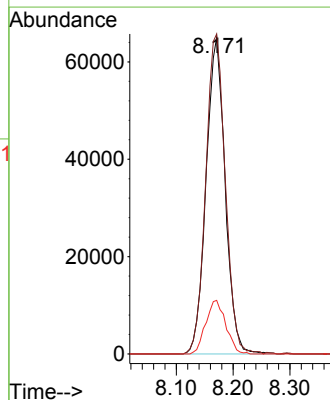
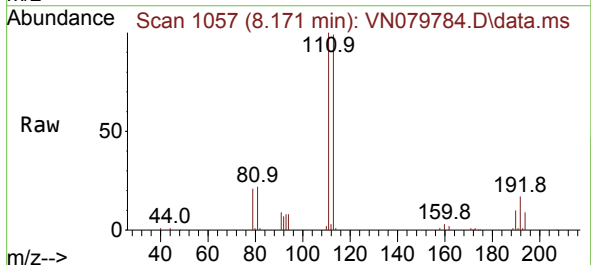
Instrument :
MSVOA_N
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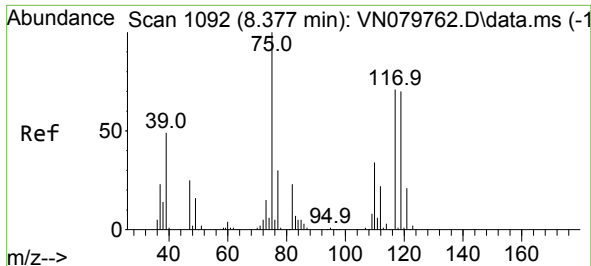
Tgt Ion:114 Resp: 416731
Ion Ratio Lower Upper
114 100
63 20.6 0.0 36.4
88 16.2 0.0 30.6



#35
Dibromofluoromethane
Concen: 51.237 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

Tgt Ion:113 Resp: 151120
Ion Ratio Lower Upper
113 100
111 103.7 82.6 123.8
192 17.9 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.436 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN079784.D

Acq: 01 Nov 2023 20:18

Instrument :

MSVOA_N

ClientSampleId :

ETGI-352

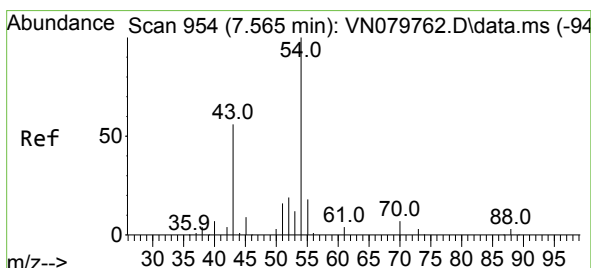
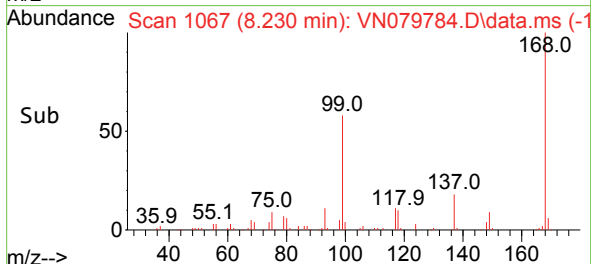
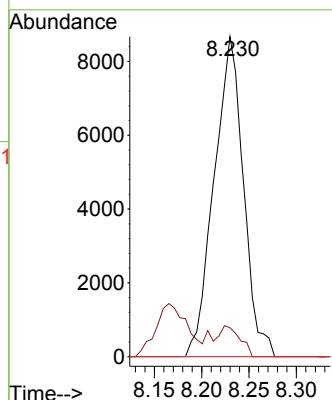
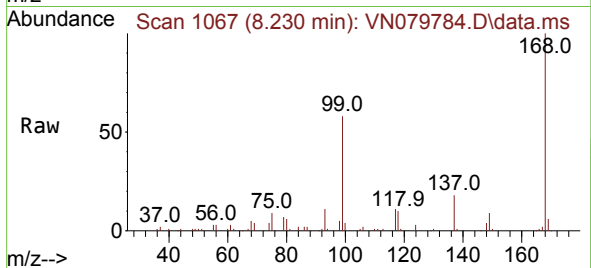
Tgt Ion: 75 Resp: 18681

Ion Ratio Lower Upper

75 100

110 9.0 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 0.788 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.006 min

Lab File: VN079784.D

Acq: 01 Nov 2023 20:18

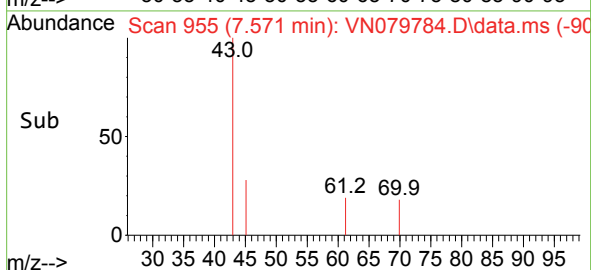
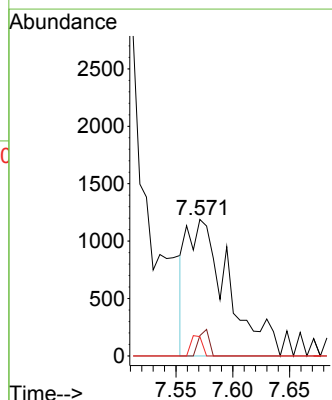
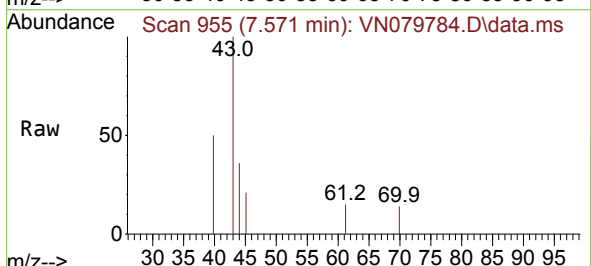
Tgt Ion: 43 Resp: 3043

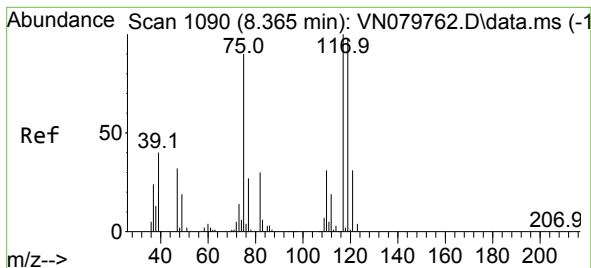
Ion Ratio Lower Upper

43 100

61 4.7 13.2 19.8#

70 4.0 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.477 ug/l

RT: 8.224 min Scan# 110

Delta R.T. -0.135 min

Lab File: VN079784.D

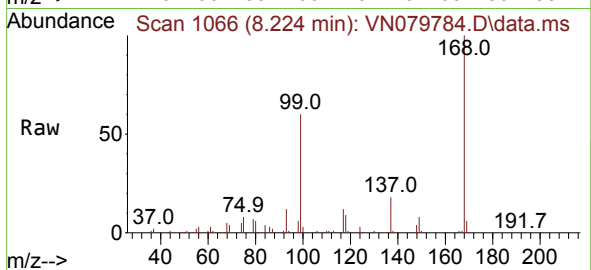
Acq: 01 Nov 2023 20:18

Instrument :

MSVOA_N

ClientSampleId :

ETGI-352



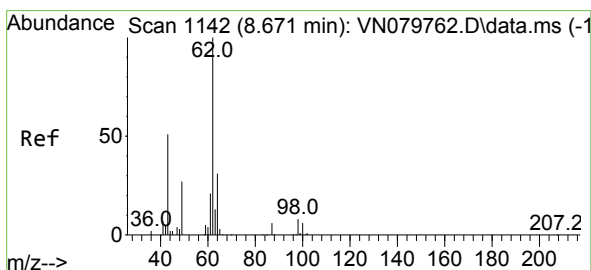
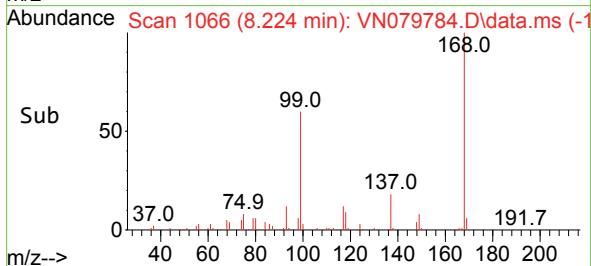
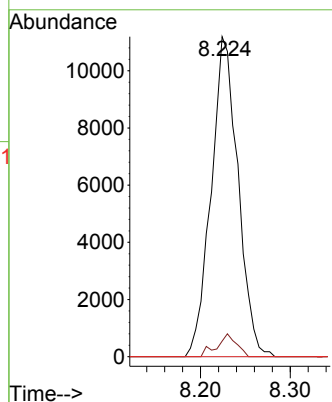
Tgt Ion:117 Resp: 23246

Ion Ratio Lower Upper

117 100

119 4.9 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.214 ug/l

RT: 8.689 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN079784.D

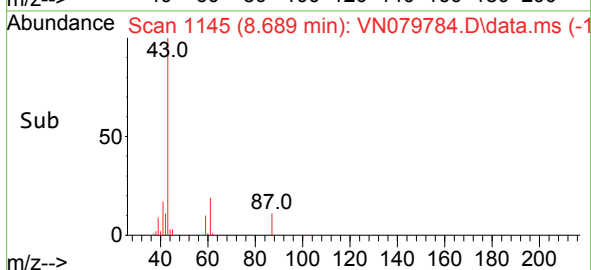
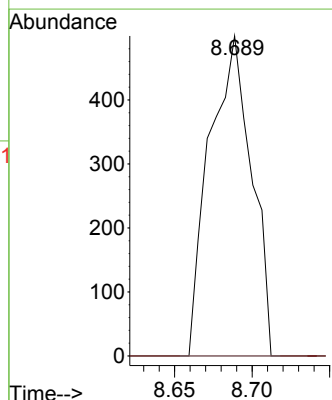
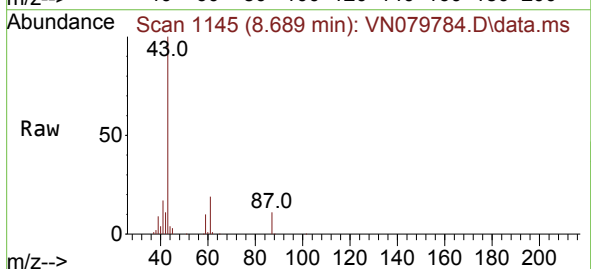
Acq: 01 Nov 2023 20:18

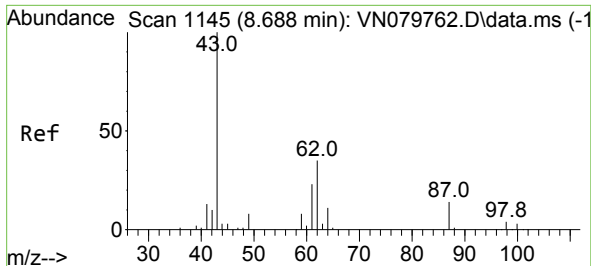
Tgt Ion: 62 Resp: 941

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

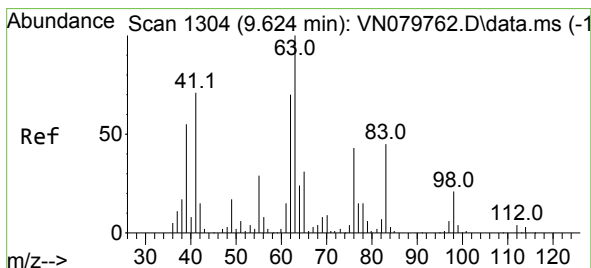
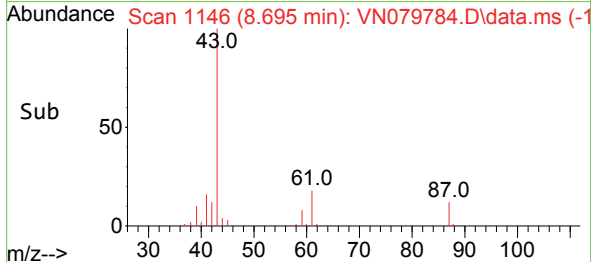
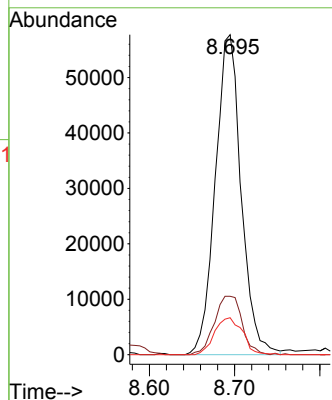
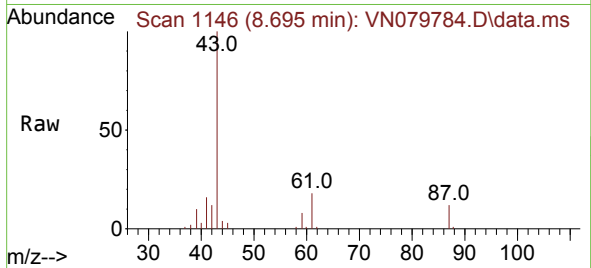




#43
Isopropyl Acetate
Concen: 17.978 ug/l
RT: 8.695 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

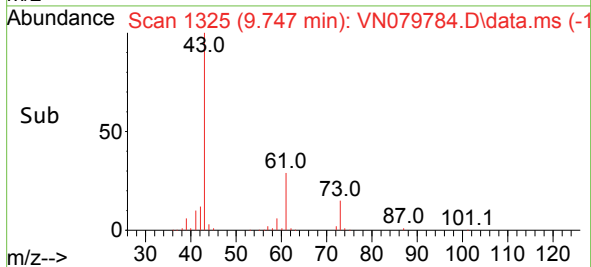
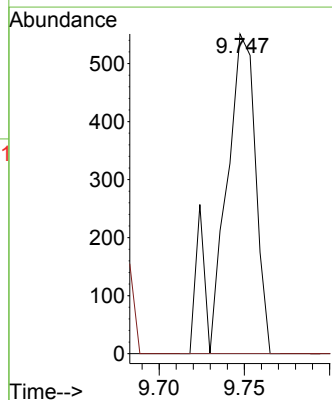
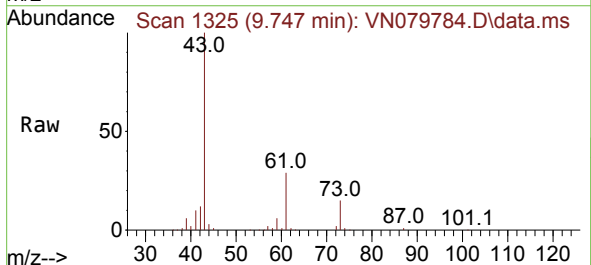
Instrument :
MSVOA_N
ClientSampleId :
ETGI-352

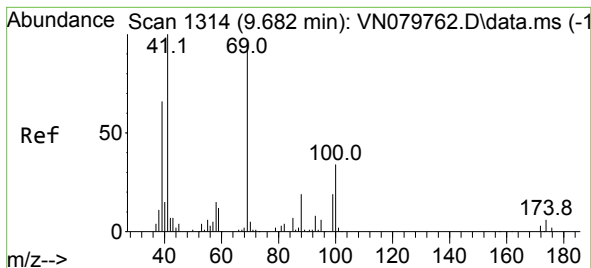
Tgt Ion: 43 Resp: 121768
Ion Ratio Lower Upper
43 100
61 19.5 24.7 37.1#
87 12.5 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.223 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.124 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

Tgt Ion: 63 Resp: 719
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 1.637 ug/l

RT: 9.677 min Scan# 11

Delta R.T. -0.005 min

Lab File: VN079784.D

Acq: 01 Nov 2023 20:18

Instrument :

MSVOA_N

ClientSampleId :

ETGI-352

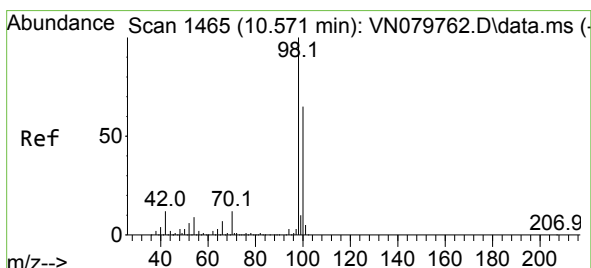
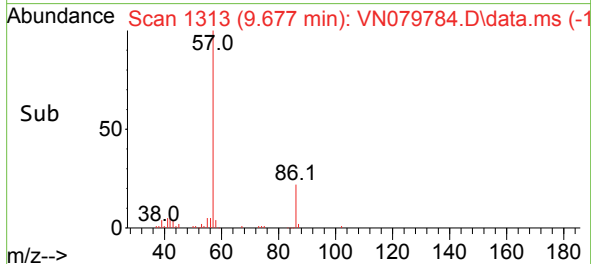
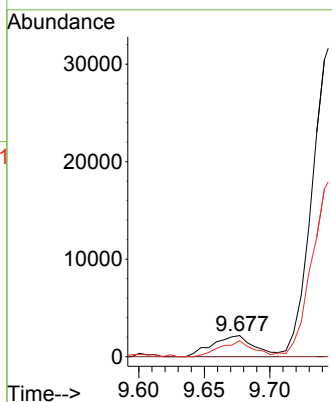
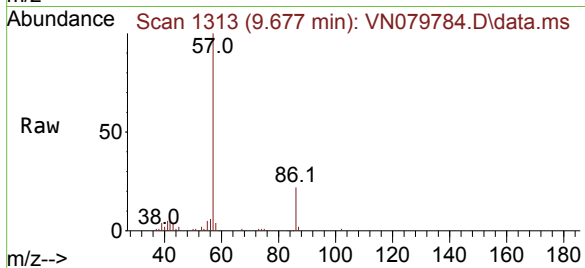
Tgt Ion: 41 Resp: 4858

Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 58.0 54.6 81.8



#50

Toluene-d8

Concen: 52.034 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079784.D

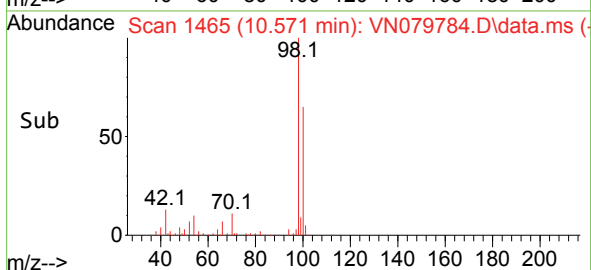
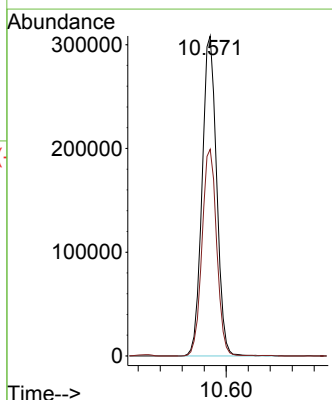
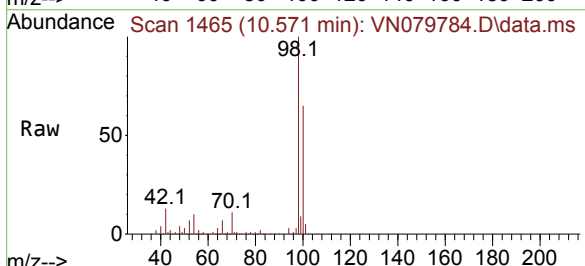
Acq: 01 Nov 2023 20:18

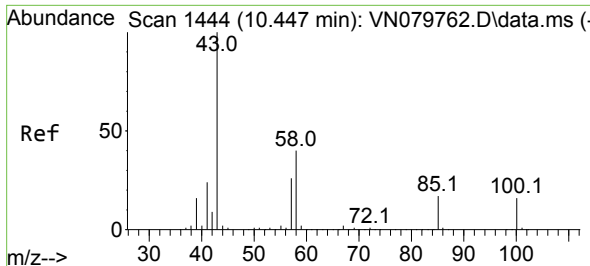
Tgt Ion: 98 Resp: 564987

Ion Ratio Lower Upper

98 100

100 65.2 52.0 78.0

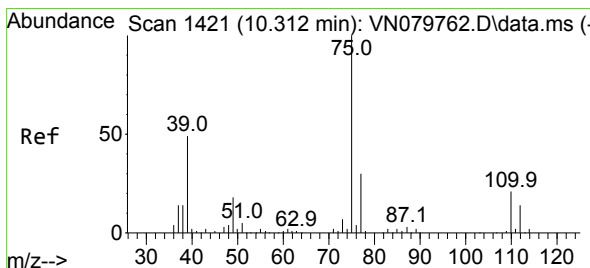
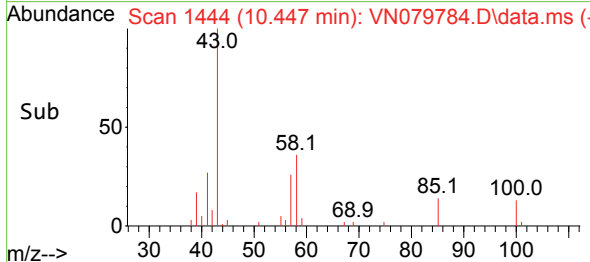
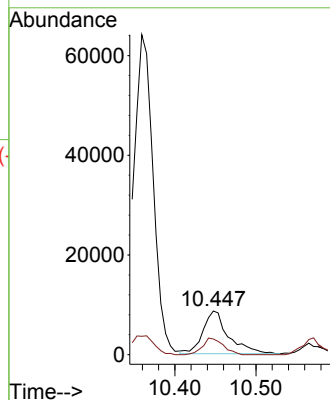
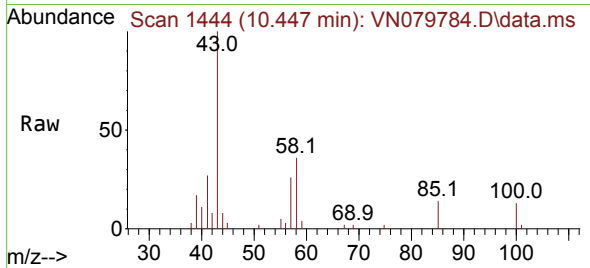




#51
4-Methyl-2-Pentanone
Concen: 4.900 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

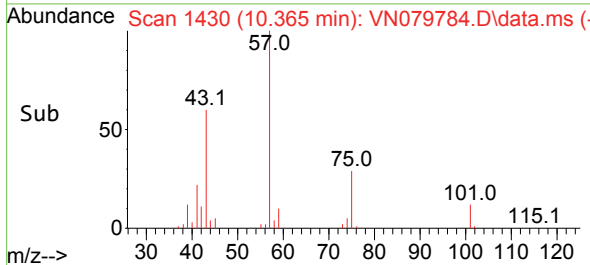
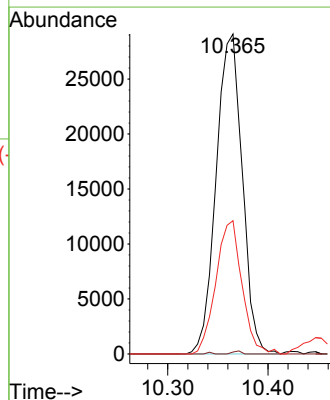
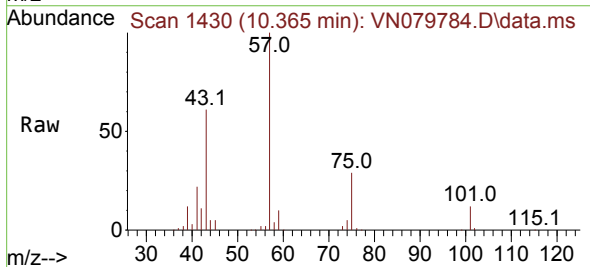
Instrument :
MSVOA_N
ClientSampleId :
ETGI-352

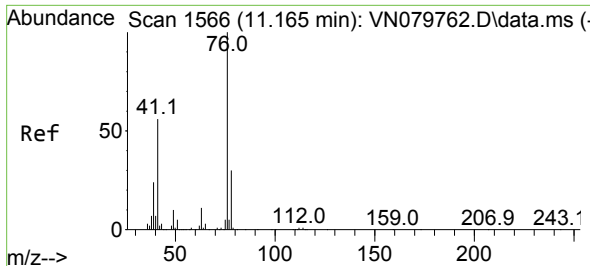
Tgt Ion: 43 Resp: 18684
Ion Ratio Lower Upper
43 100
58 31.4 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 10.485 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

Tgt Ion: 75 Resp: 52589
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 41.6 31.6 47.4

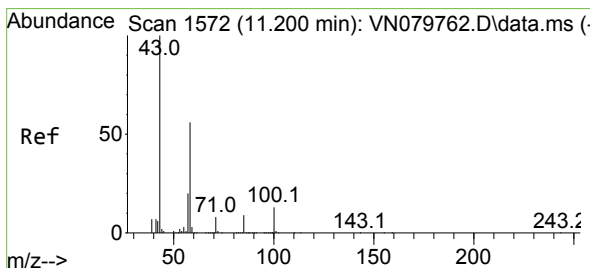
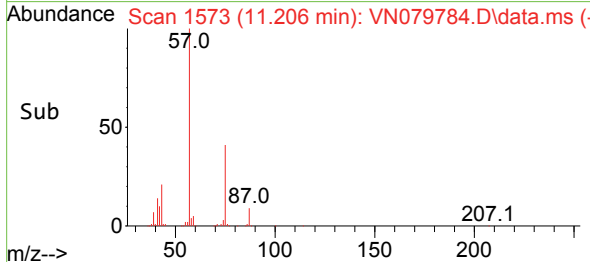
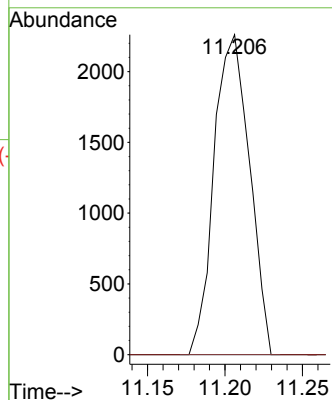
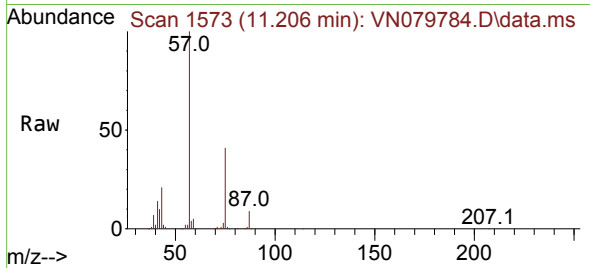




#57
1,3-Dichloropropane
Concen: 0.678 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.042 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

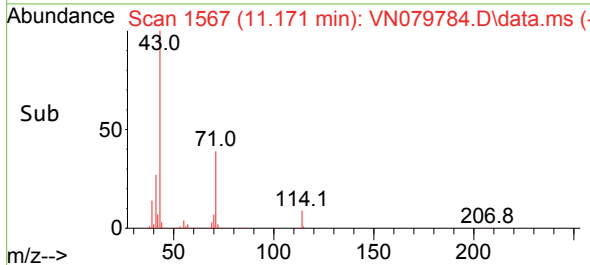
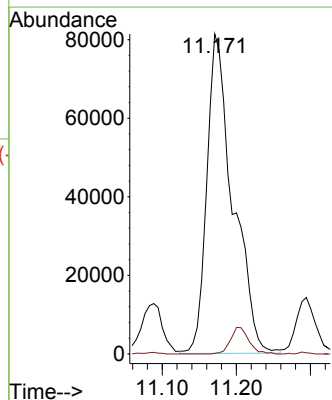
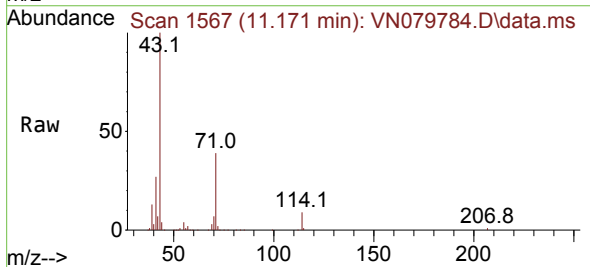
Instrument :
MSVOA_N
ClientSampleId :
ETGI-352

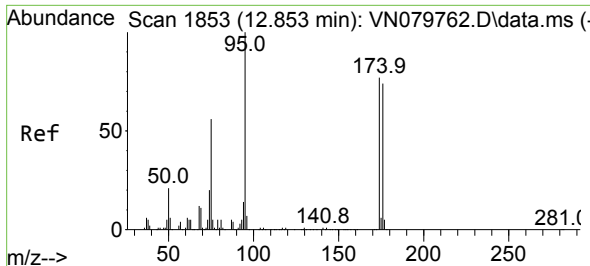
Tgt Ion: 76 Resp: 3596
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 68.204 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.029 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

Tgt Ion: 43 Resp: 198963
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

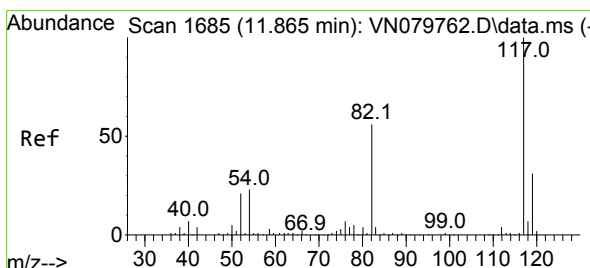
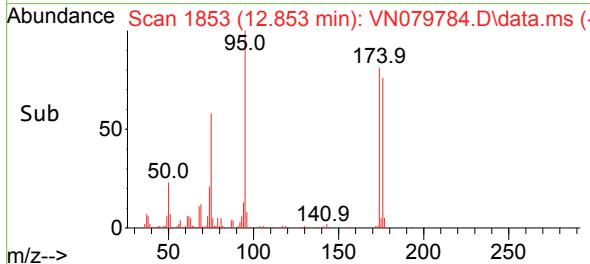
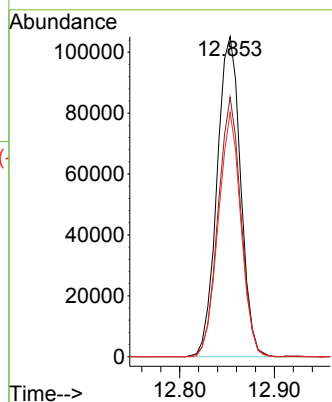
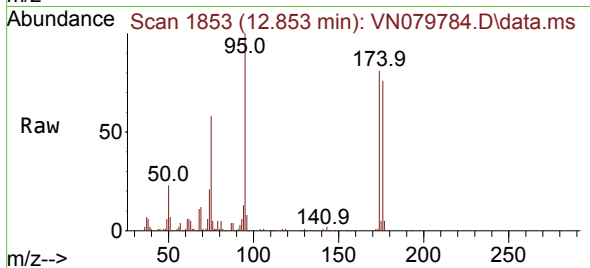




#62
4-Bromofluorobenzene
Concen: 50.470 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

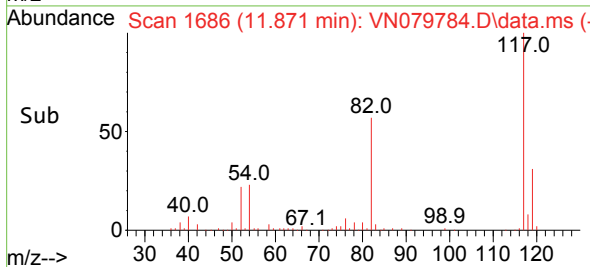
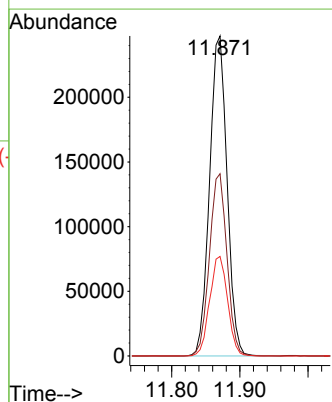
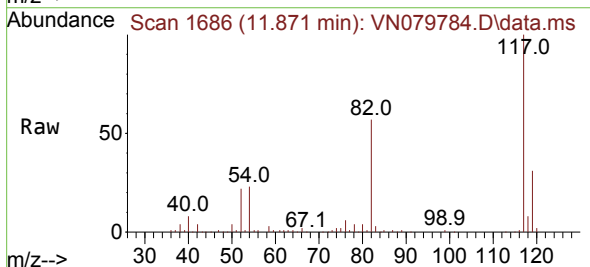
Instrument :
MSVOA_N
ClientSampleId :
ETGI-352

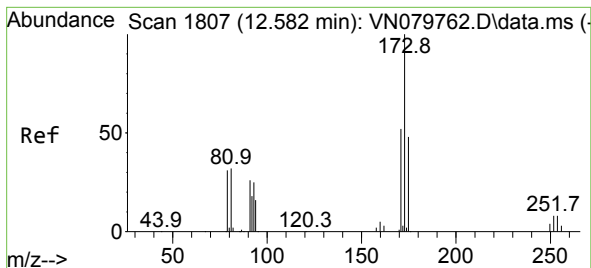
Tgt Ion: 95 Resp: 181747
Ion Ratio Lower Upper
95 100
174 78.7 0.0 143.8
176 73.3 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

Tgt Ion: 117 Resp: 441711
Ion Ratio Lower Upper
117 100
82 56.9 44.0 66.0
119 31.1 25.6 38.4





#71

Bromoform

Concen: 0.704 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.265 min

Lab File: VN079784.D

Acq: 01 Nov 2023 20:18

Instrument :

MSVOA_N

ClientSampleId :

ETGI-352

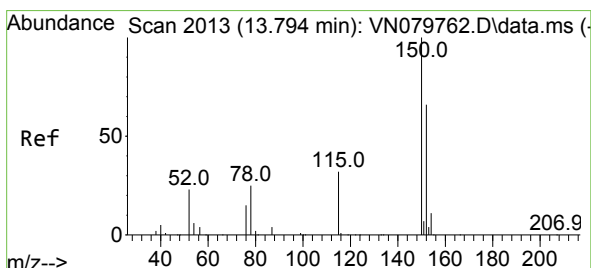
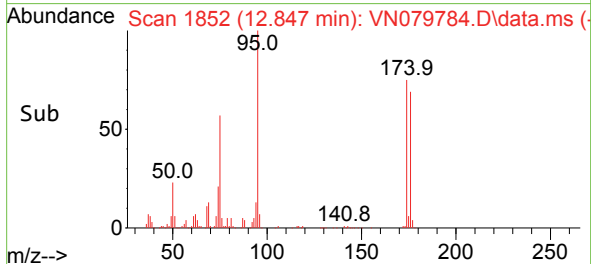
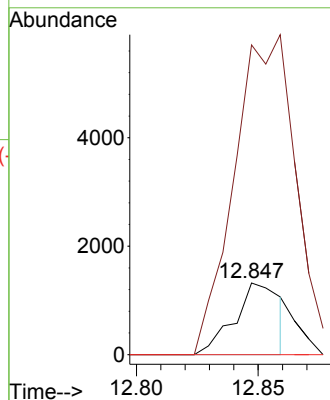
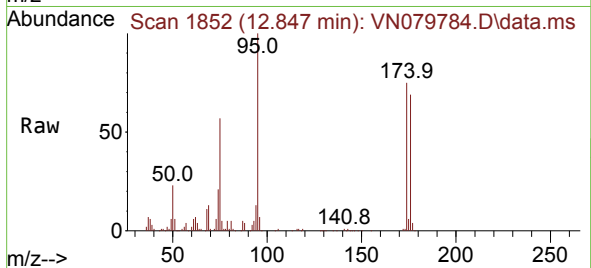
Tgt Ion:173 Resp: 1725

Ion Ratio Lower Upper

173 100

175 360.6 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN079784.D

Acq: 01 Nov 2023 20:18

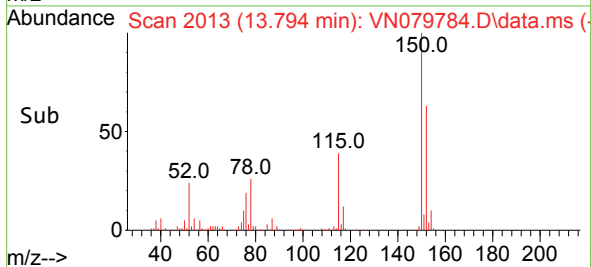
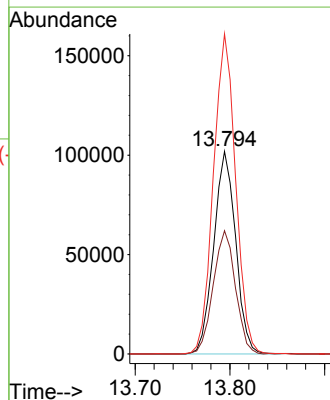
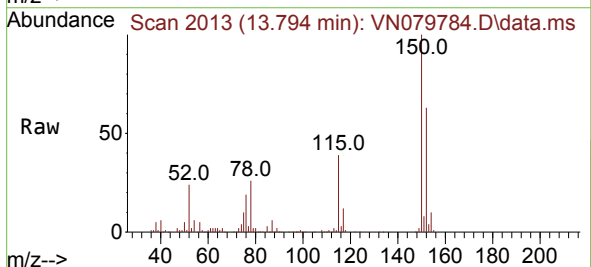
Tgt Ion:152 Resp: 164037

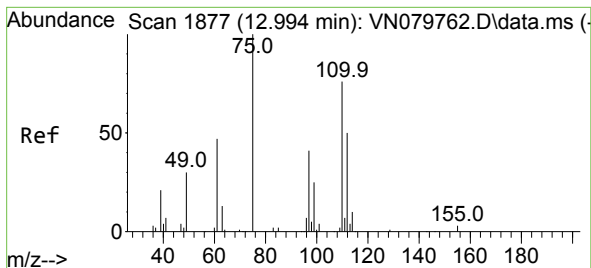
Ion Ratio Lower Upper

152 100

115 61.7 32.3 96.8

150 159.6 0.0 355.8





#76

1,2,3-Trichloropropane

Concen: 26.369 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN079784.D

Acq: 01 Nov 2023 20:18

Instrument :

MSVOA_N

ClientSampleId :

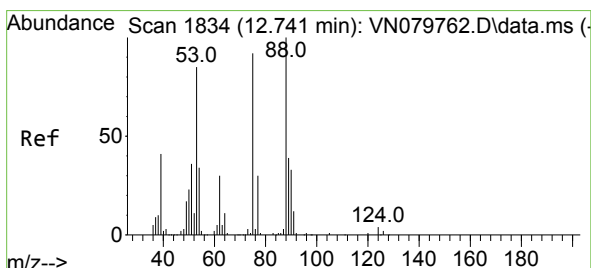
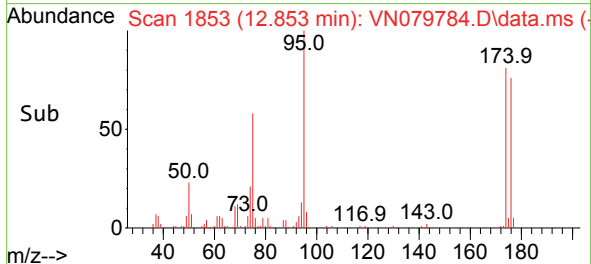
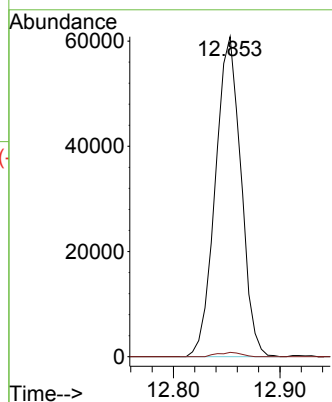
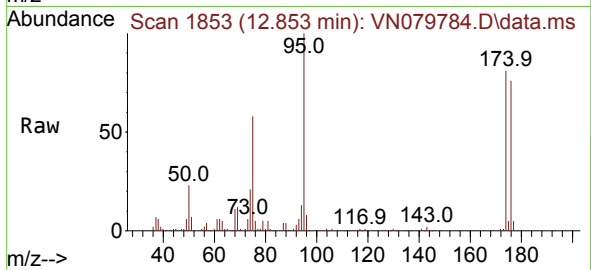
ETGI-352

Tgt Ion: 75 Resp: 101548

Ion Ratio Lower Upper

75 100

77 1.3 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.743 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.118 min

Lab File: VN079784.D

Acq: 01 Nov 2023 20:18

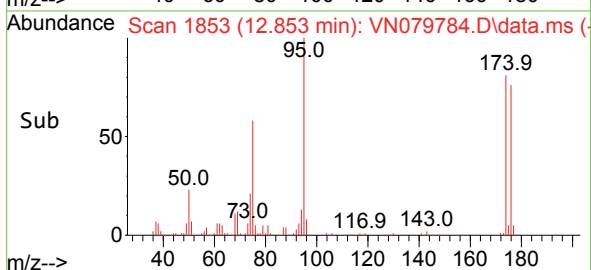
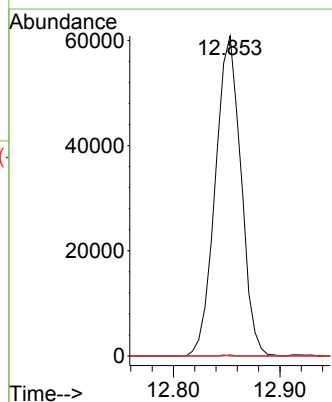
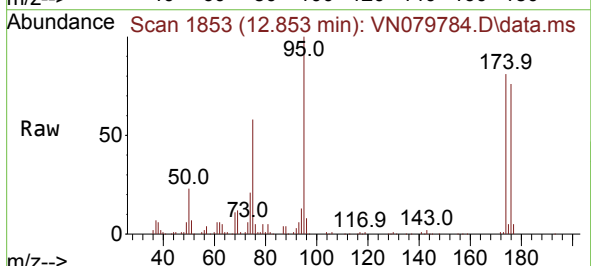
Tgt Ion: 75 Resp: 101548

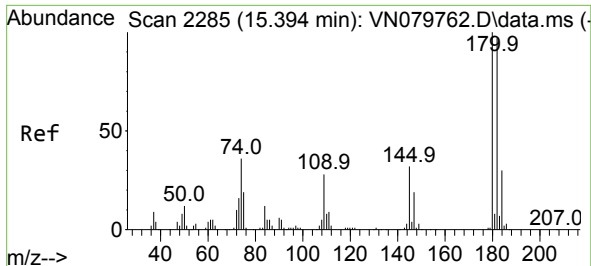
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

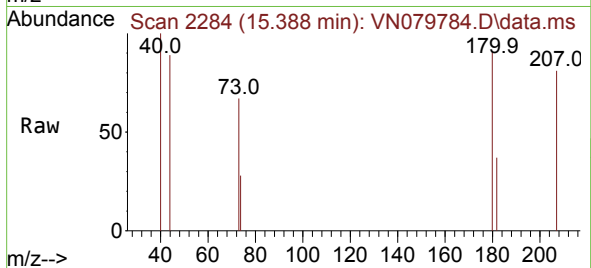
89 0.1 38.8 58.2#



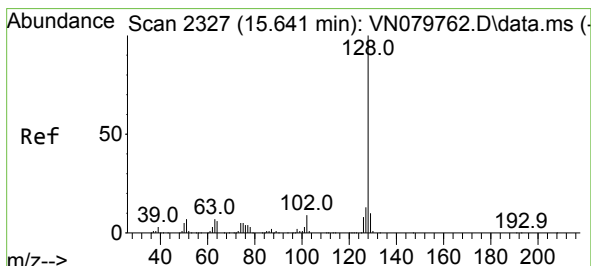
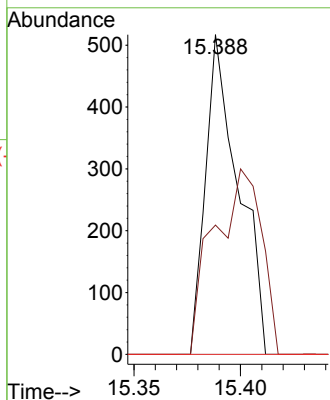
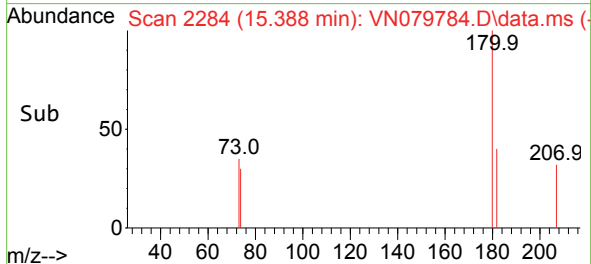


#93
1,2,4-Trichlorobenzene
Concen: 0.218 ug/l
RT: 15.388 min Scan# 21
Delta R.T. -0.005 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18

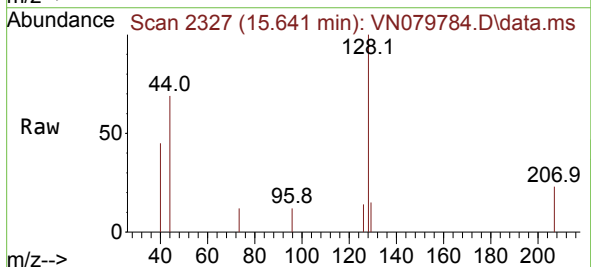
Instrument :
MSVOA_N
ClientSampleId :
ETGI-352



Tgt Ion:180 Resp: 555
Ion Ratio Lower Upper
180 100
182 84.1 46.1 138.2
145 0.0 16.6 49.8#



#95
Naphthalene
Concen: 0.267 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN079784.D
Acq: 01 Nov 2023 20:18



Tgt Ion:128 Resp: 2301
Ion Ratio Lower Upper
128 100
127 9.0 10.0 15.0#
129 3.1 8.7 13.1#

