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 Data File : VN079907.D
 Acq On : 04 Nov 2023 20:52
 Operator : JC\MD
 Sample : 05216-01 20X
 Misc : 1.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AT-OILY-DEBRIS

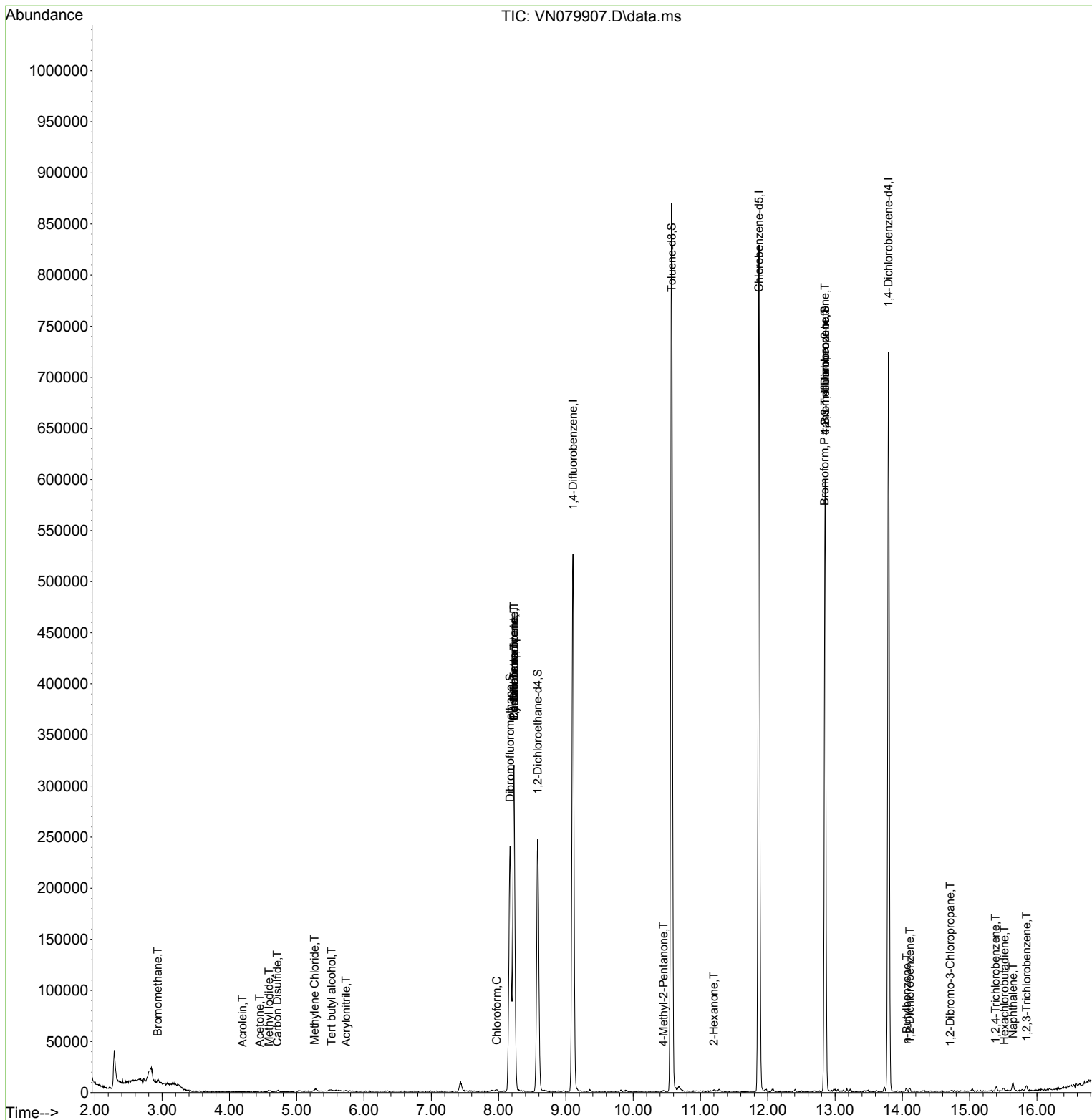
Quant Time: Nov 06 02:20:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

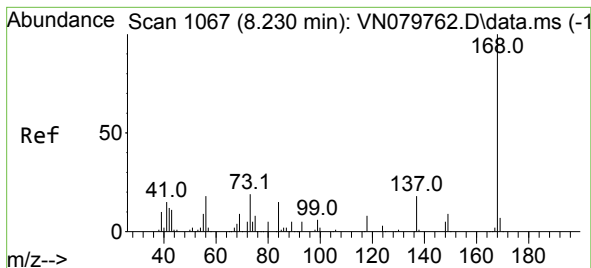
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	217776	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	437353	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	457568	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	184601	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	206633	62.278	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 124.560%			
35) Dibromofluoromethane	8.171	113	169735	54.834	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.660%			
50) Toluene-d8	10.571	98	581570	51.036	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.080%			
62) 4-Bromofluorobenzene	12.853	95	199156	52.697	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.400%			
Target Compounds			Qvalue			
3) Chloromethane	2.359	50	1161	Below Cal		97
5) Bromomethane	2.936	94	911	0.437 ug/l #		59
10) Methyl Iodide	4.589	142	971	0.343 ug/l #		82
11) Tert butyl alcohol	5.518	59	774	1.827 ug/l #		72
13) Acrolein	4.195	56	208	3.093 ug/l #		51
15) Acrylonitrile	5.736	53	748	0.567 ug/l #		76
16) Acetone	4.448	43	569	0.488 ug/l #		40
17) Carbon Disulfide	4.712	76	2388	0.353 ug/l #		75
20) Methylene Chloride	5.265	84	761	0.259 ug/l		94
30) Chloroform	7.971	83	1868	0.340 ug/l #		73
31) Cyclohexane	8.230	56	5763	1.314 ug/l #		13
36) 1,1-Dichloropropene	8.230	75	20800	4.706 ug/l #		48
38) Carbon Tetrachloride	8.230	117	23547	5.286 ug/l #		18
51) 4-Methyl-2-Pentanone	10.453	43	943	0.236 ug/l #		59
59) 2-Hexanone	11.200	43	1151	0.376 ug/l		67
71) Bromoform	12.847	173	1119	0.441 ug/l #		1
76) 1,2,3-Trichloropropane	12.853	75	109847	25.346 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	109847	68.961 ug/l #		15
89) n-Butylbenzene	14.065	91	2419	0.279 ug/l #		77
91) 1,2-Dichlorobenzene	14.112	146	1372	0.228 ug/l		95
92) 1,2-Dibromo-3-Chloropr...	14.712	75	195	0.231 ug/l #		48
93) 1,2,4-Trichlorobenzene	15.388	180	1688	0.589 ug/l		92
94) Hexachlorobutadiene	15.517	225	829	0.638 ug/l #		23
95) Naphthalene	15.647	128	6956	0.716 ug/l #		92
96) 1,2,3-Trichlorobenzene	15.847	180	1745	0.622 ug/l		74

(#) = 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# 1

Delta R.T. 0.001 min

Lab File: VN079907.D

Acq: 04 Nov 2023 20:52

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MSVOA_N

ClientSampleId :

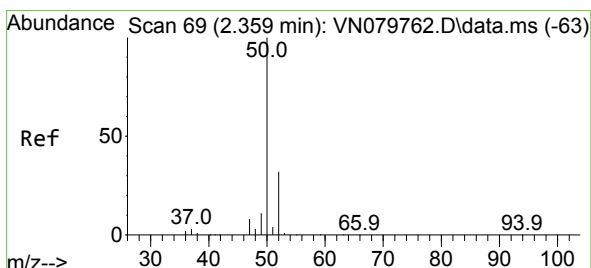
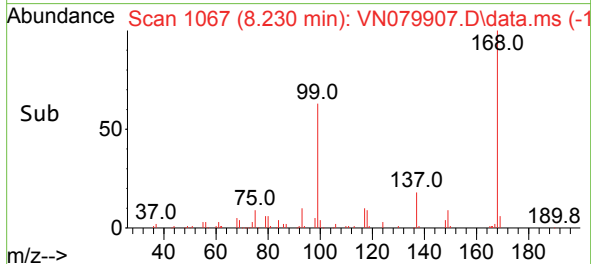
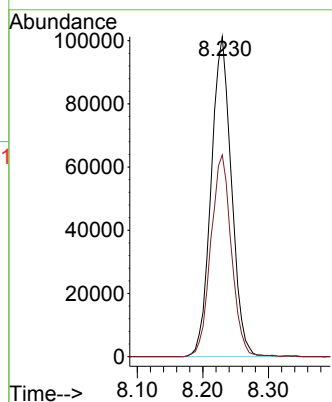
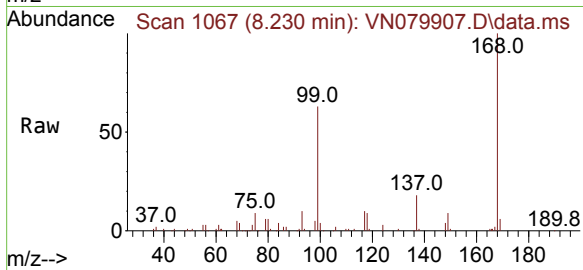
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Tgt Ion:168 Resp: 217776

Ion Ratio Lower Upper

168 100

99 63.0 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN079907.D

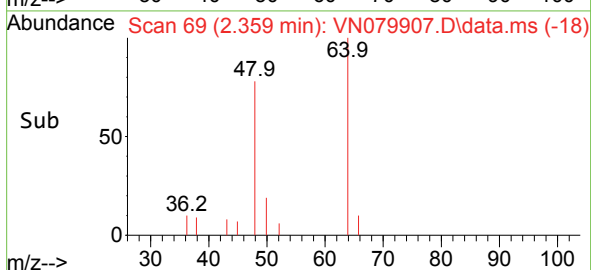
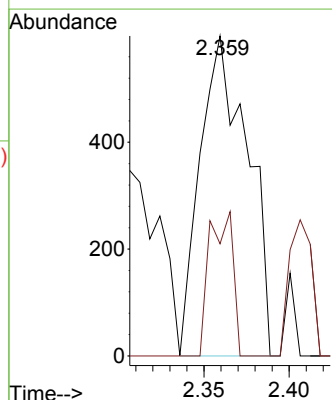
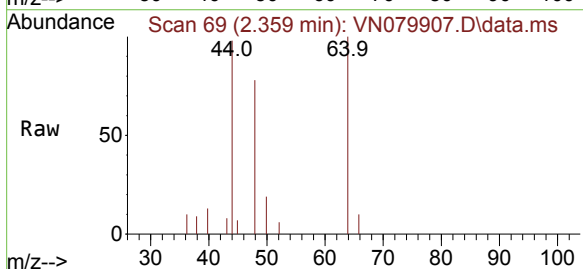
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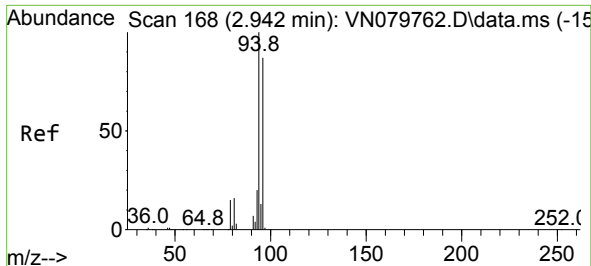
Tgt Ion: 50 Resp: 1161

Ion Ratio Lower Upper

50 100

52 35.1 26.5 39.7

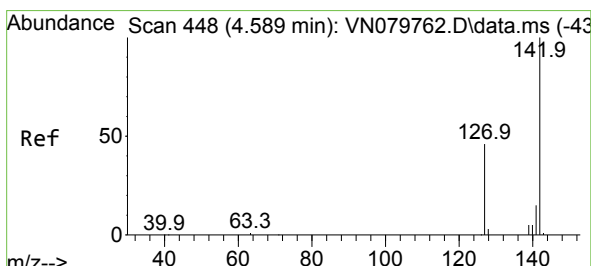
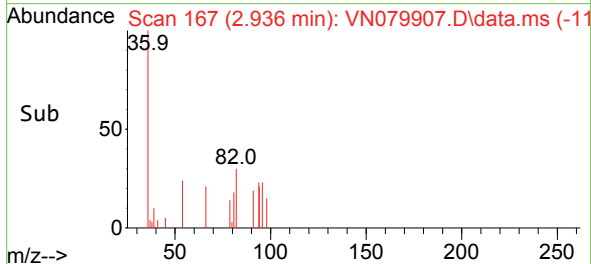
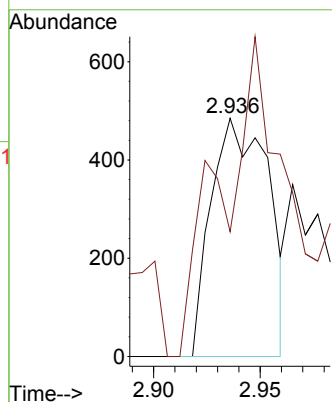
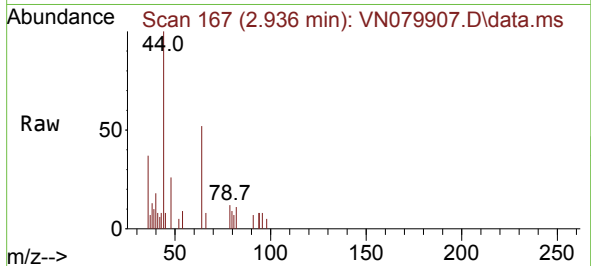




#5
Bromomethane
Concen: 0.437 ug/l
RT: 2.936 min Scan# 1
Delta R.T. -0.018 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

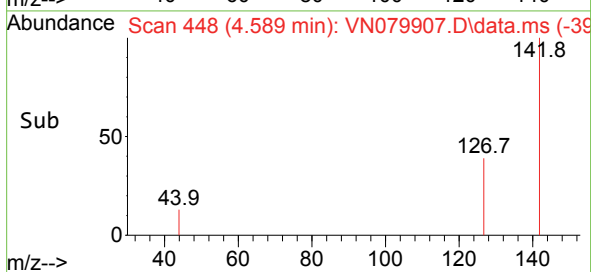
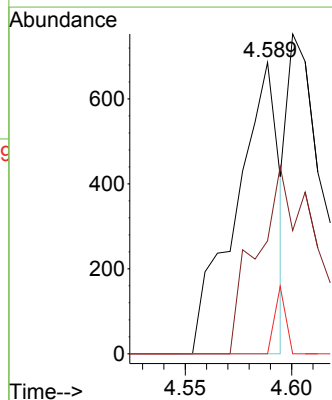
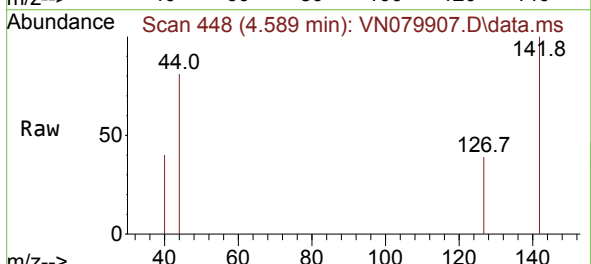
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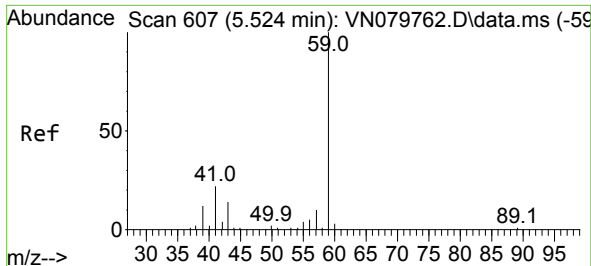
Tgt Ion: 94 Resp: 911
Ion Ratio Lower Upper
94 100
96 52.4 73.1 109.7#



#10
Methyl Iodide
Concen: 0.343 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

Tgt Ion:142 Resp: 971
Ion Ratio Lower Upper
142 100
127 38.8 37.6 56.4
141 0.0 11.4 17.0#

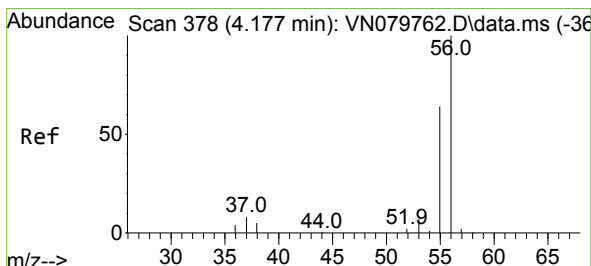
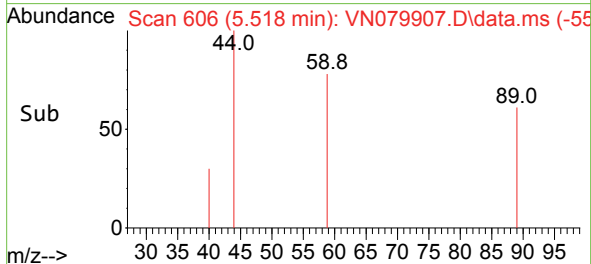
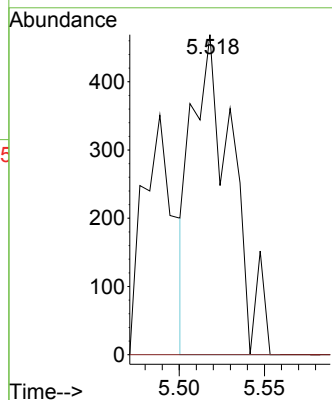
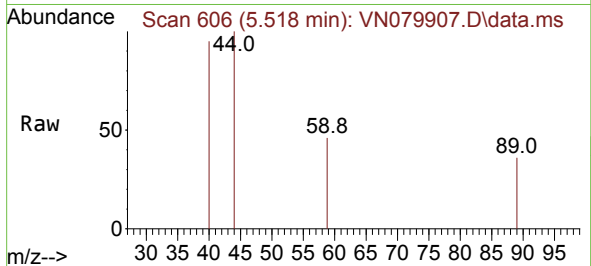




#11
Tert butyl alcohol
Concen: 1.827 ug/l
RT: 5.518 min Scan# 607
Delta R.T. 0.000 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

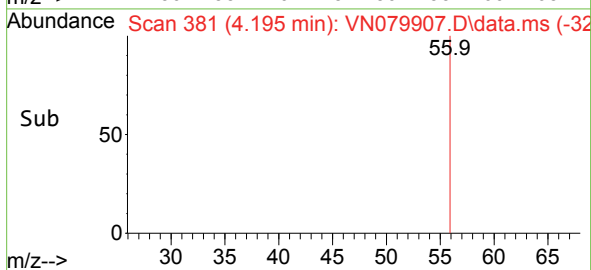
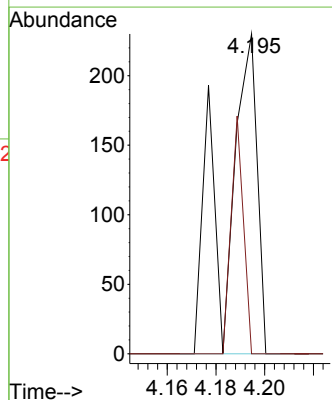
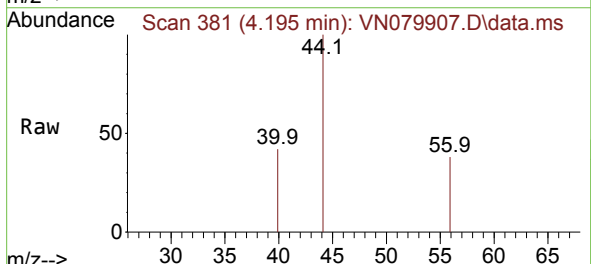
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MSVOA_N
ClientSampleId :
AT-OILY-DEBRIS

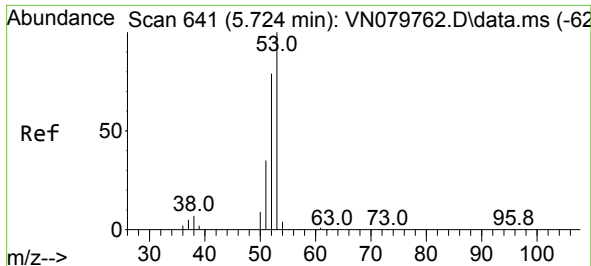
Tgt Ion: 59 Resp: 774
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 3.093 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.012 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

Tgt Ion: 56 Resp: 208
Ion Ratio Lower Upper
56 100
55 28.8 54.5 81.7#

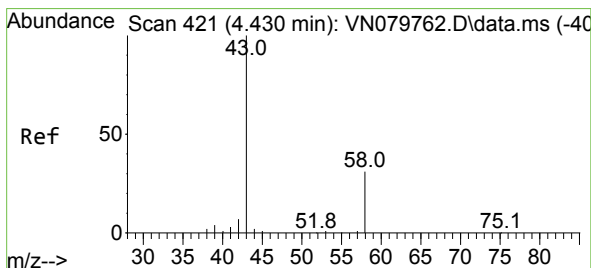
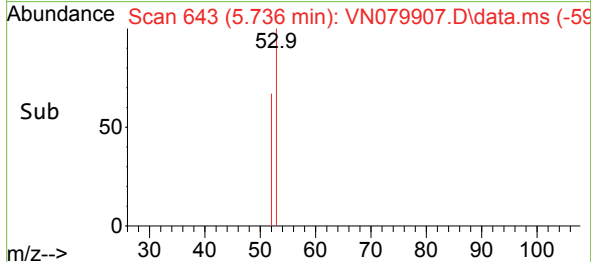
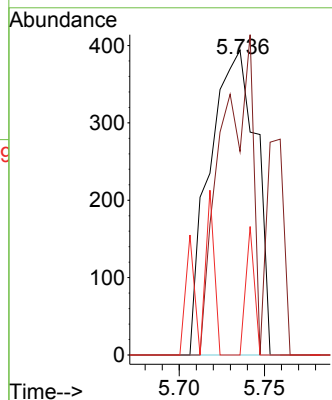
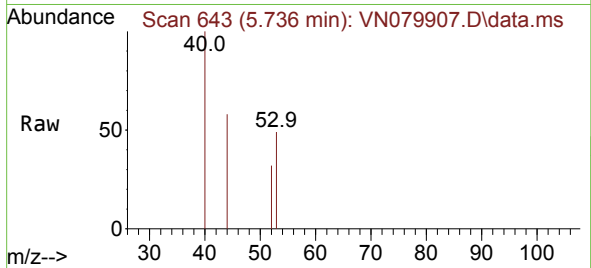




#15
Acrylonitrile
Concen: 0.567 ug/l
RT: 5.736 min Scan# 641
Delta R.T. 0.012 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

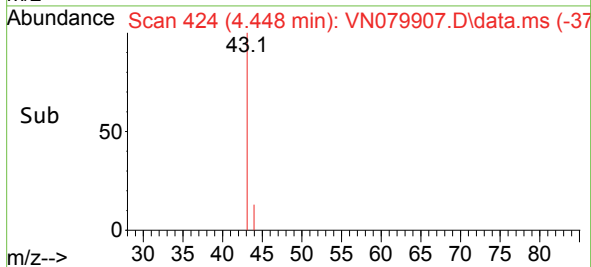
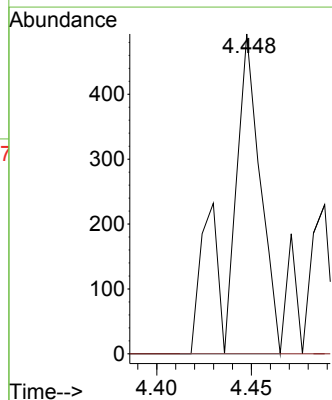
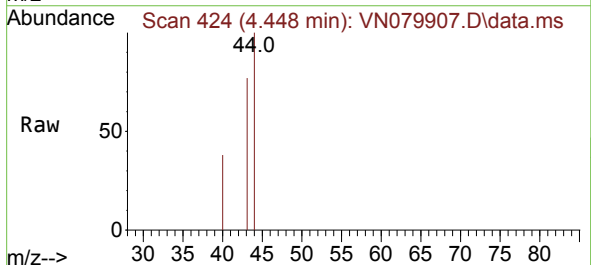
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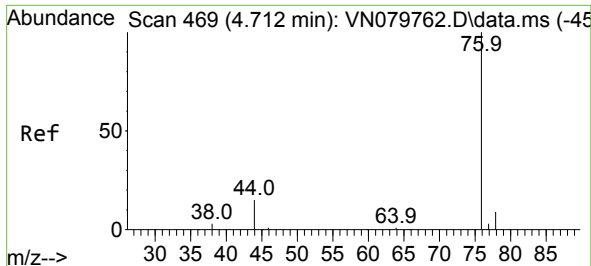
Tgt Ion: 53 Resp: 748
Ion Ratio Lower Upper
53 100
52 69.4 65.3 97.9
51 7.9 28.9 43.3#



#16
Acetone
Concen: 0.488 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.018 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

Tgt Ion: 43 Resp: 569
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#

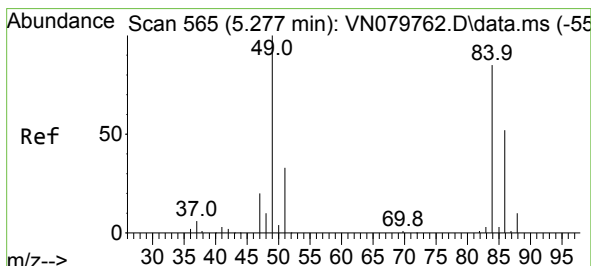
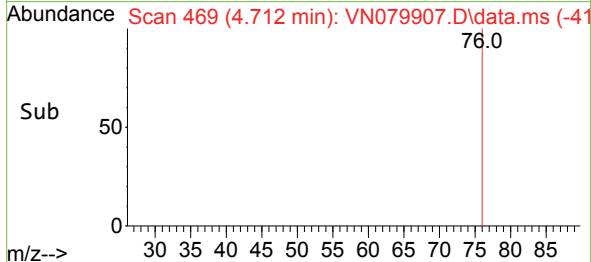
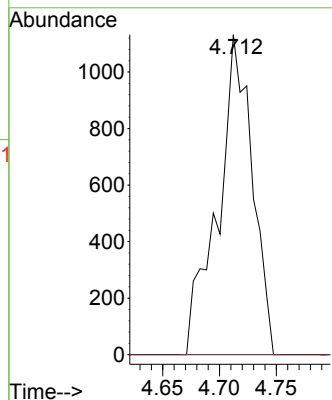
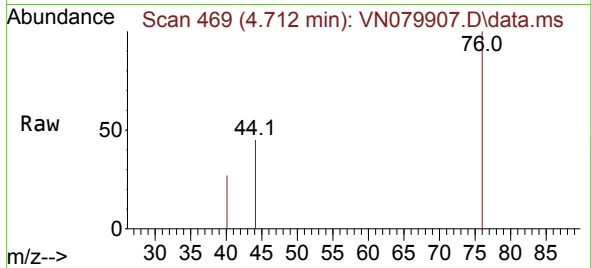




#17
Carbon Disulfide
Concen: 0.353 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

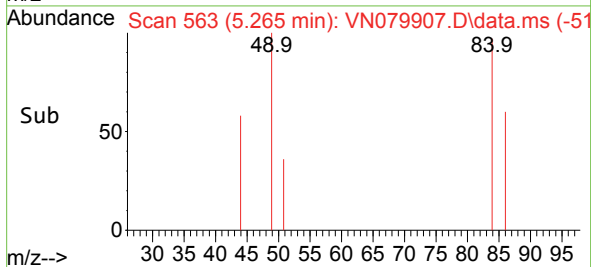
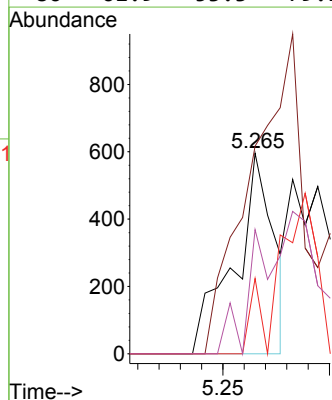
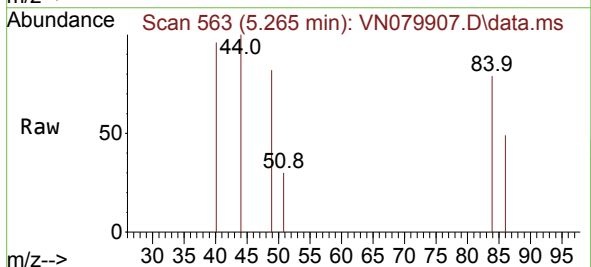
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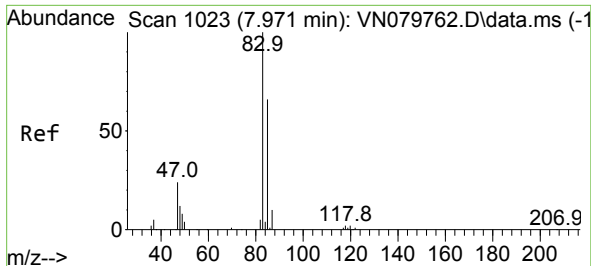
Tgt Ion: 76 Resp: 2388
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#20
Methylene Chloride
Concen: 0.259 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

Tgt Ion: 84 Resp: 761
Ion Ratio Lower Upper
84 100
49 103.5 79.7 119.5
51 37.6 25.2 37.8
86 61.9 53.3 79.9

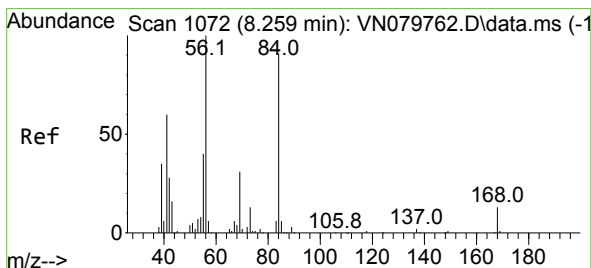
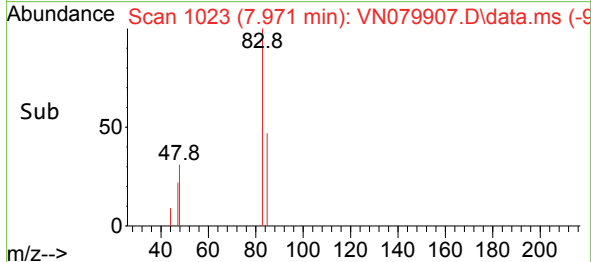
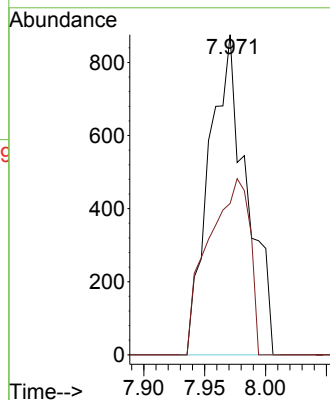
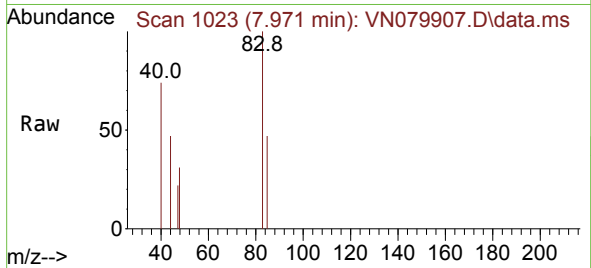




#30
Chloroform
Concen: 0.340 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.000 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

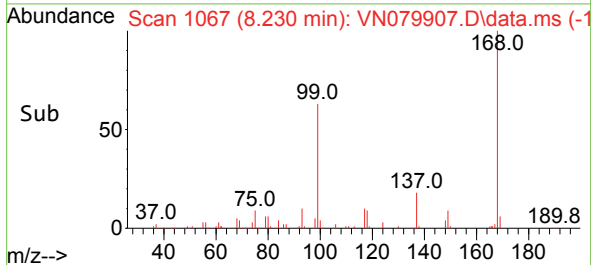
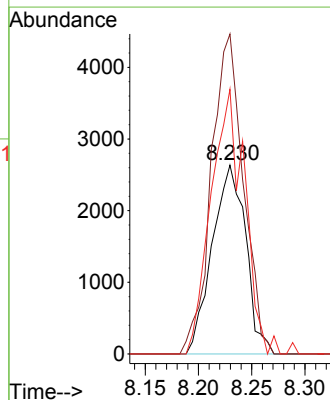
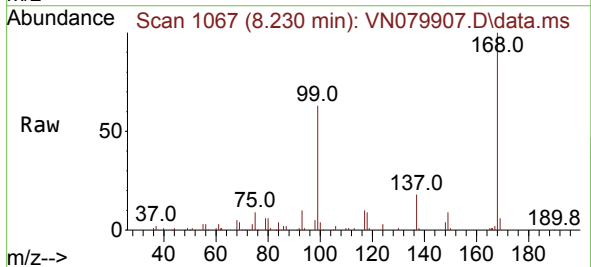
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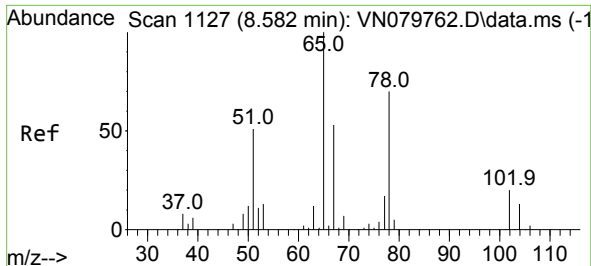
Tgt Ion: 83 Resp: 1868
Ion Ratio Lower Upper
83 100
85 47.3 55.4 83.0#



#31
Cyclohexane
Concen: 1.314 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

Tgt Ion: 56 Resp: 5763
Ion Ratio Lower Upper
56 100
69 169.6 26.8 40.2#
84 140.2 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 62.278 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079907.D

Acq: 04 Nov 2023 20:52

Instrument :

MSVOA_N

ClientSampleId :

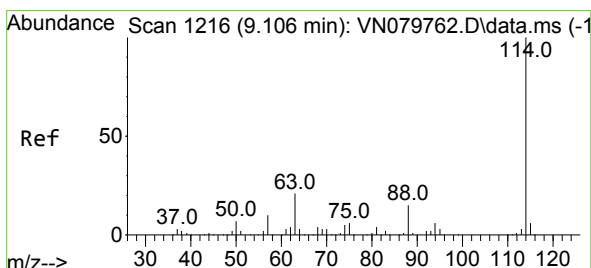
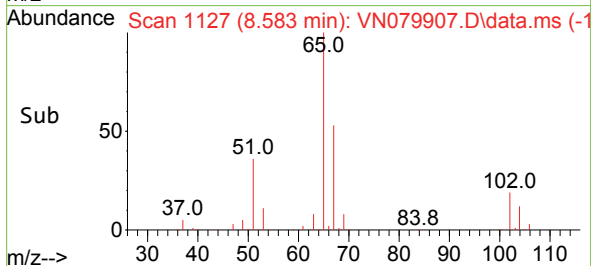
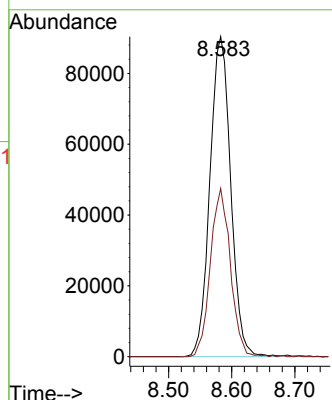
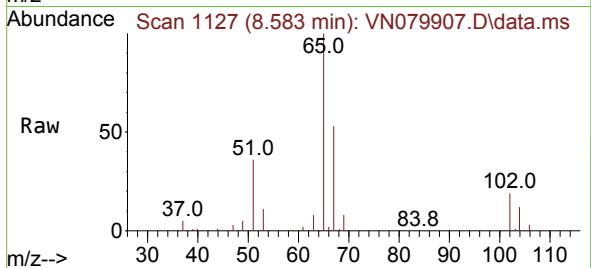
AT-OILY-DEBRIS

Tgt Ion: 65 Resp: 206633

Ion Ratio Lower Upper

65 100

67 50.6 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079907.D

Acq: 04 Nov 2023 20:52

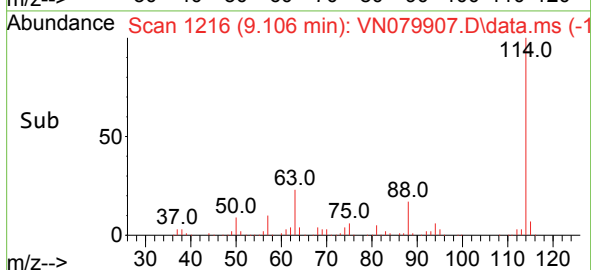
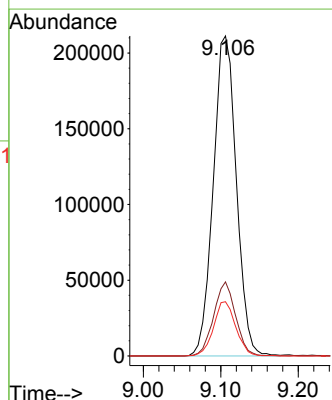
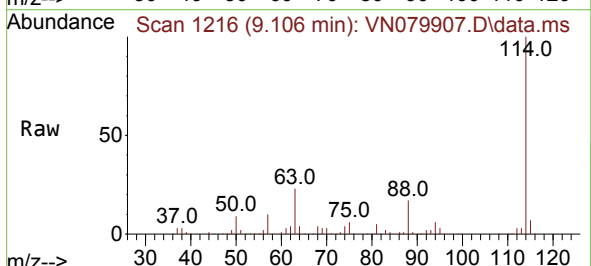
Tgt Ion: 114 Resp: 437353

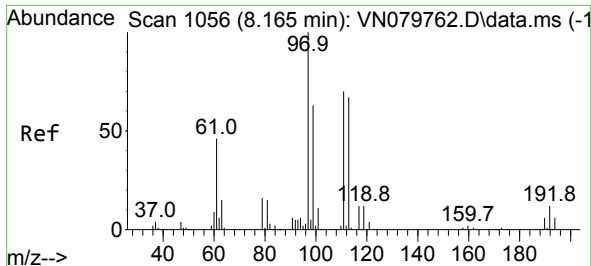
Ion Ratio Lower Upper

114 100

63 23.2 0.0 36.4

88 17.0 0.0 30.6

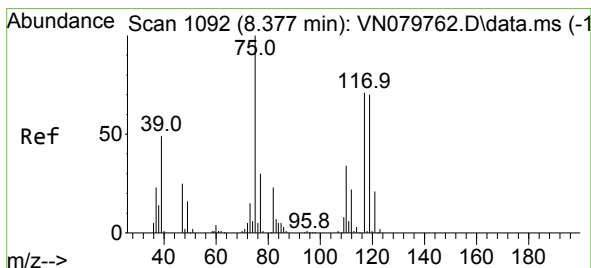
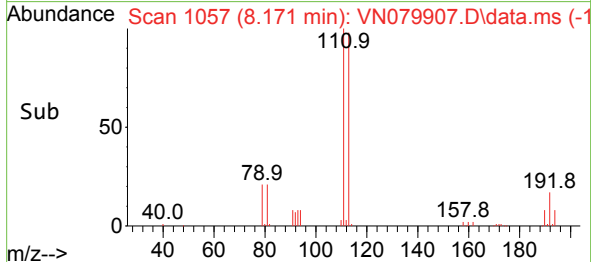
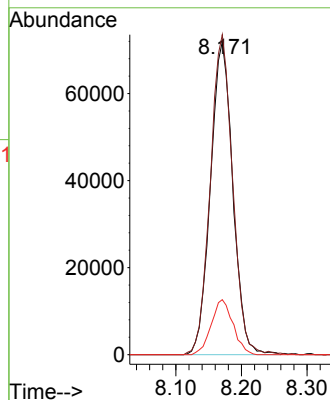
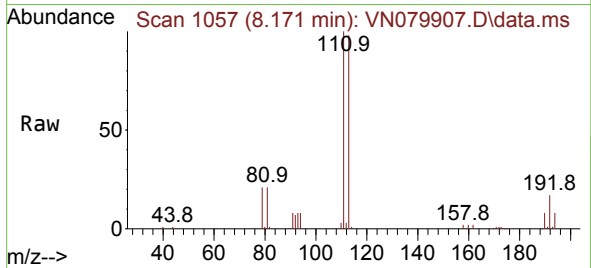




#35
Dibromofluoromethane
Concen: 54.834 ug/l
RT: 8.171 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

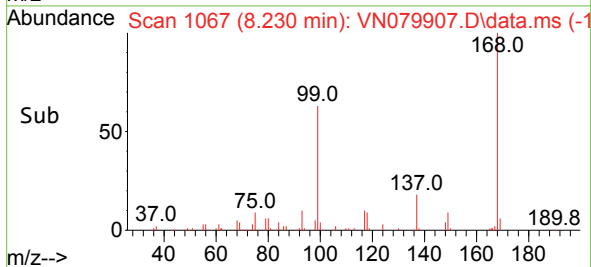
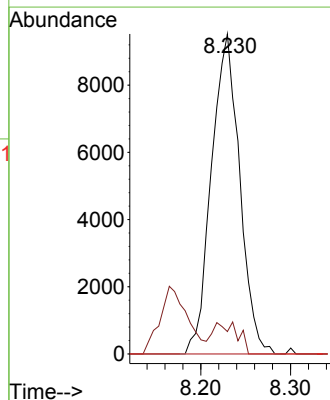
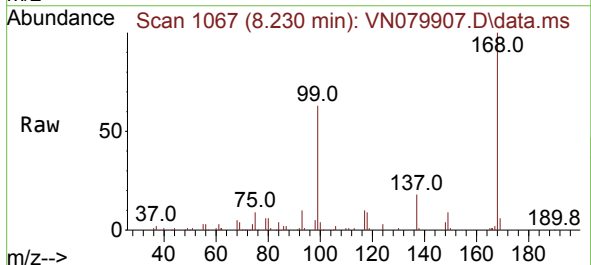
Instrument :
MSVOA_N
ClientSampleId :
AT-OILY-DEBRIS

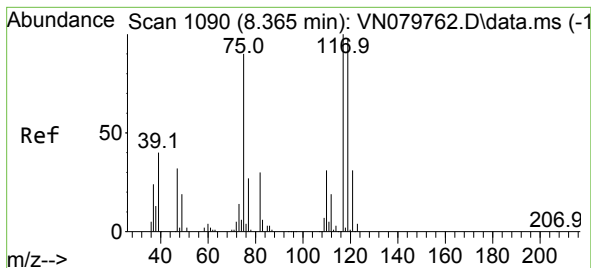
Tgt Ion:113 Resp: 169735
Ion Ratio Lower Upper
113 100
111 102.5 82.6 123.8
192 17.2 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.706 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

Tgt Ion: 75 Resp: 20800
Ion Ratio Lower Upper
75 100
110 8.6 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.286 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.129 min

Lab File: VN079907.D

Acq: 04 Nov 2023 20:52

Instrument :

MSVOA_N

ClientSampleId :

AT-OILY-DEBRIS

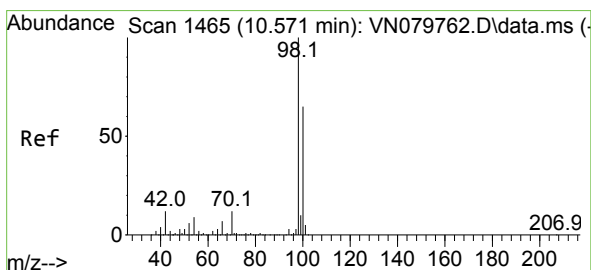
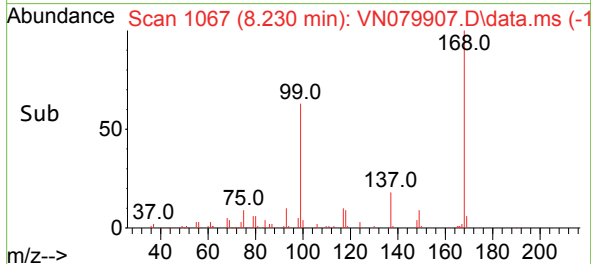
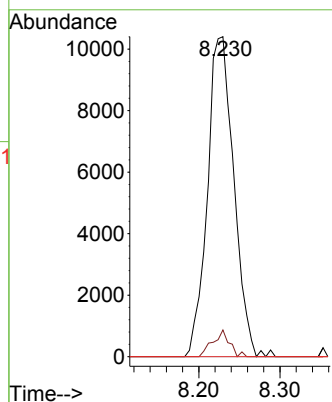
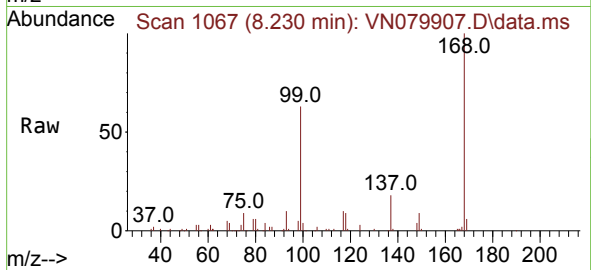
Tgt Ion:117 Resp: 23547

Ion Ratio Lower Upper

117 100

119 8.4 77.3 115.9#

121 0.0 23.3 34.9#



#50

Toluene-d8

Concen: 51.036 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079907.D

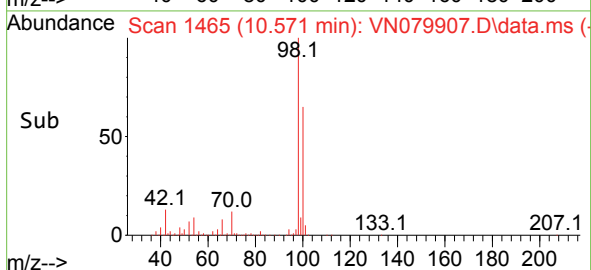
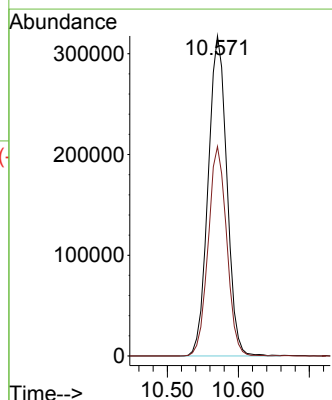
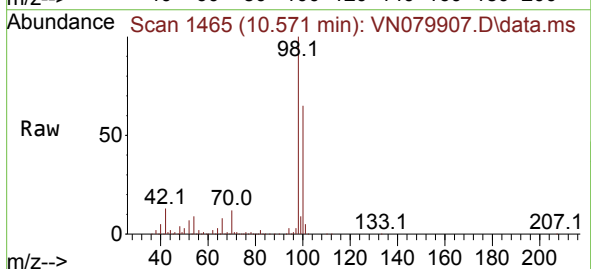
Acq: 04 Nov 2023 20:52

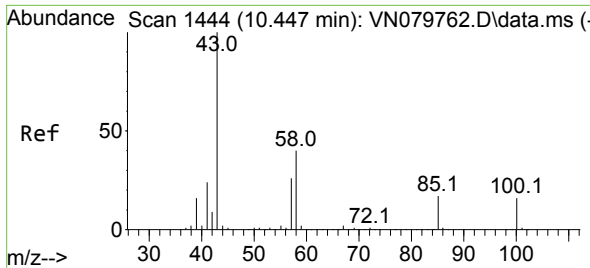
Tgt Ion: 98 Resp: 581570

Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0

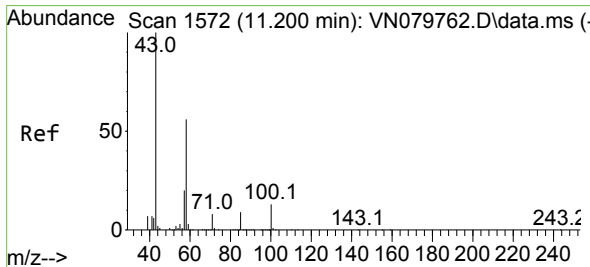
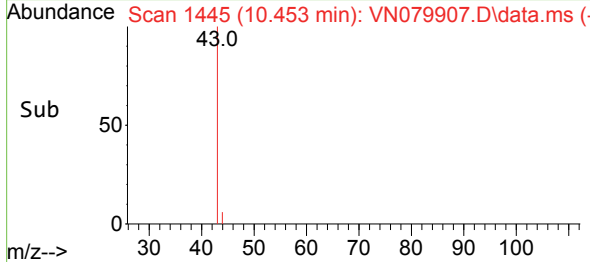
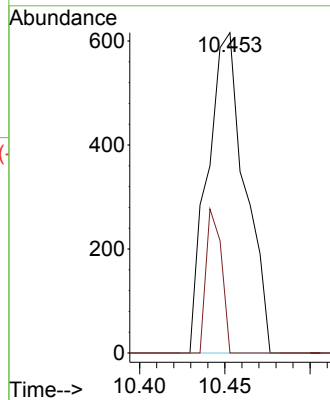
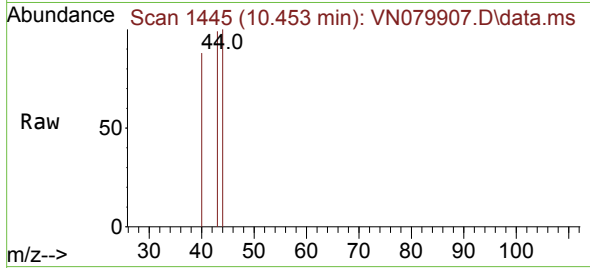




#51
4-Methyl-2-Pentanone
Concen: 0.236 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

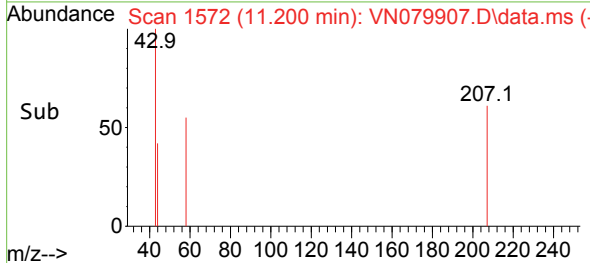
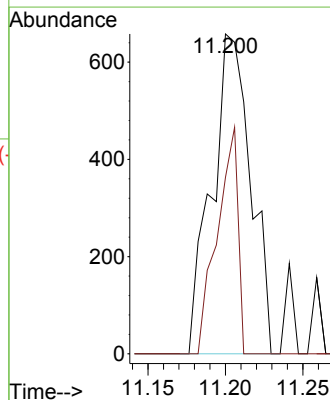
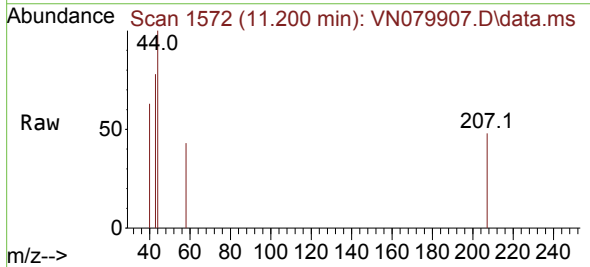
Instrument :
MSVOA_N
ClientSampleId :
AT-OILY-DEBRIS

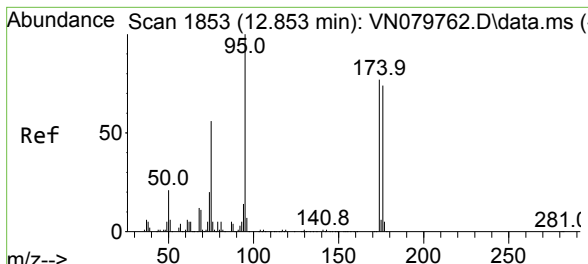
Tgt Ion: 43 Resp: 943
Ion Ratio Lower Upper
43 100
58 18.5 36.6 54.8#



#59
2-Hexanone
Concen: 0.376 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

Tgt Ion: 43 Resp: 1151
Ion Ratio Lower Upper
43 100
58 37.5 31.7 95.1

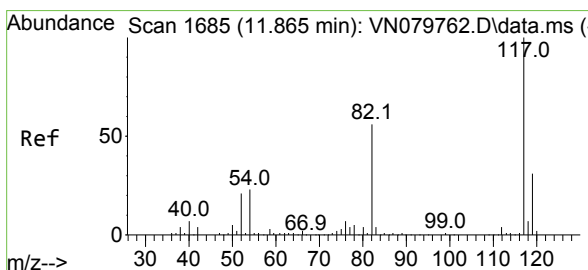
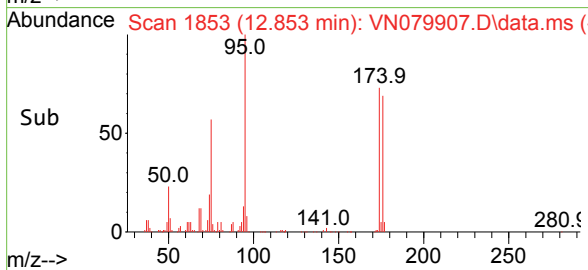
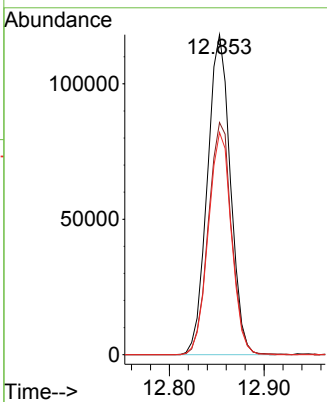
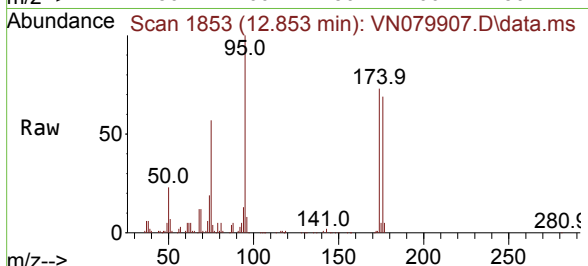




#62
 4-Bromofluorobenzene
 Concen: 52.697 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN079907.D
 Acq: 04 Nov 2023 20:52

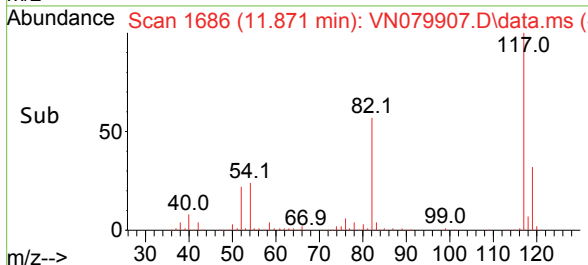
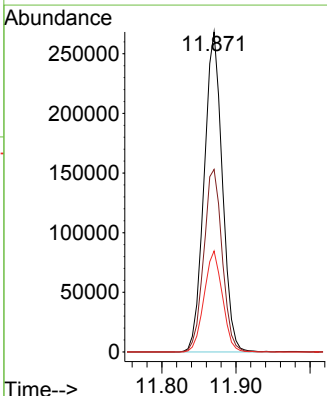
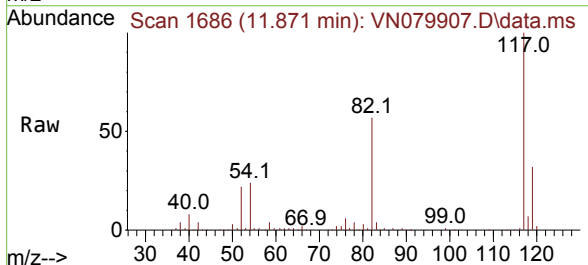
Instrument :
 MSVOA_N
 ClientSampleId :
 AT-OILY-DEBRIS

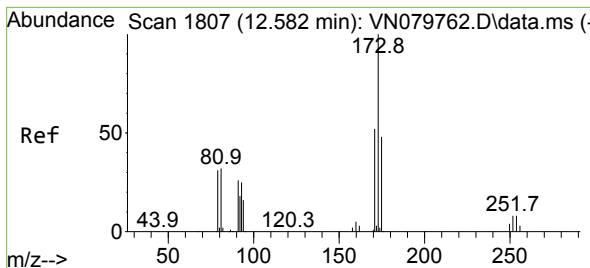
Tgt Ion:	95	Resp:	199156
Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	143.8
176	69.9	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. 0.000 min
 Lab File: VN079907.D
 Acq: 04 Nov 2023 20:52

Tgt Ion:	117	Resp:	457568
Ion	Ratio	Lower	Upper
117	100		
82	57.1	44.0	66.0
119	31.5	25.6	38.4





#71

Bromoform

Concen: 0.441 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.265 min

Lab File: VN079907.D

Acq: 04 Nov 2023 20:52

Instrument :

MSVOA_N

ClientSampleId :

AT-OILY-DEBRIS

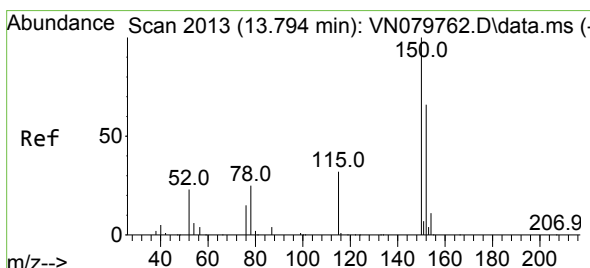
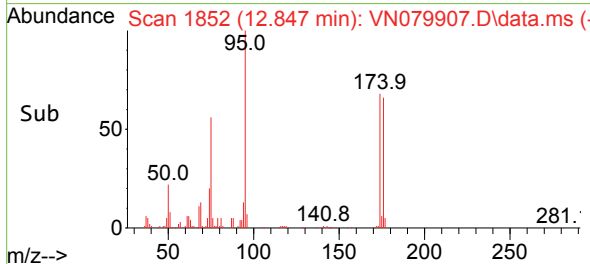
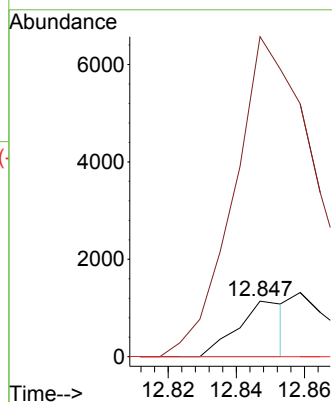
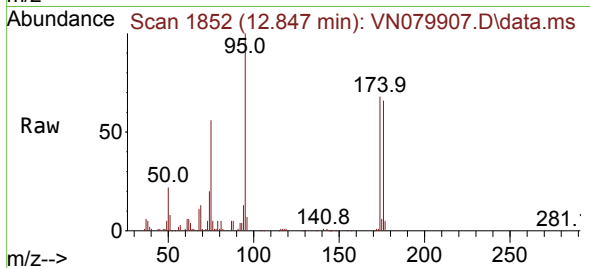
Tgt Ion:173 Resp: 1119

Ion Ratio Lower Upper

173 100

175 781.2 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: VN079907.D

Acq: 04 Nov 2023 20:52

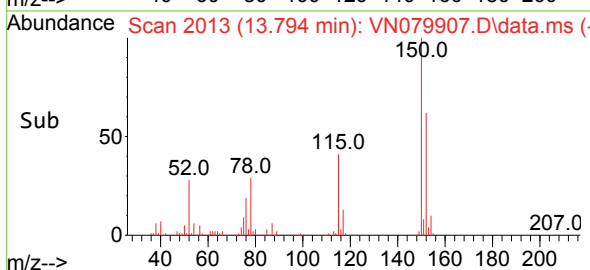
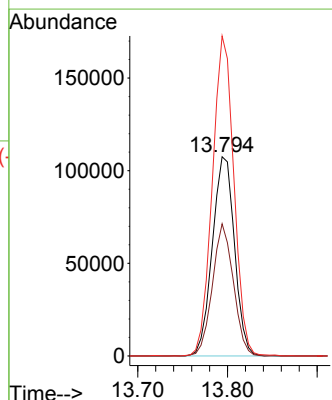
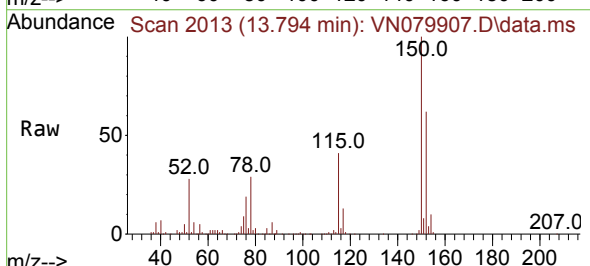
Tgt Ion:152 Resp: 184601

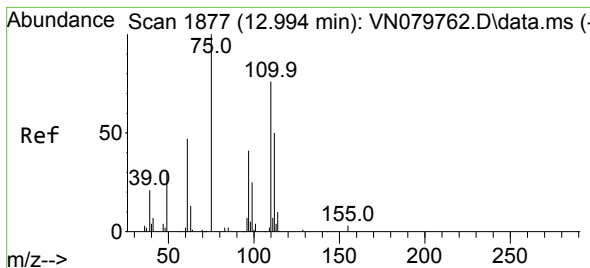
Ion Ratio Lower Upper

152 100

115 62.6 32.3 96.8

150 155.7 0.0 355.8





#76

1,2,3-Trichloropropane

Concen: 25.346 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN079907.D

Acq: 04 Nov 2023 20:52

Instrument :

MSVOA_N

ClientSampleId :

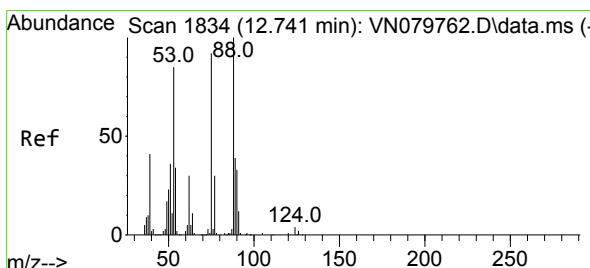
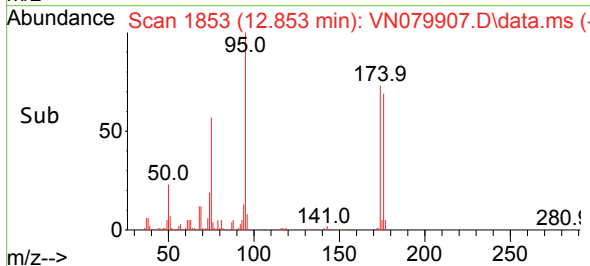
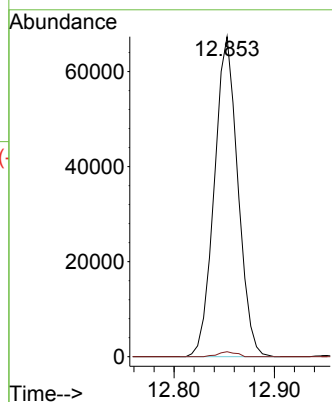
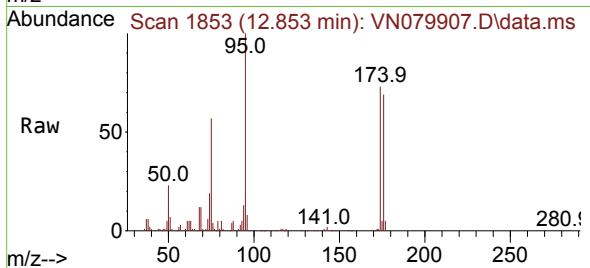
AT-OILY-DEBRIS

Tgt Ion: 75 Resp: 109847

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.961 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.118 min

Lab File: VN079907.D

Acq: 04 Nov 2023 20:52

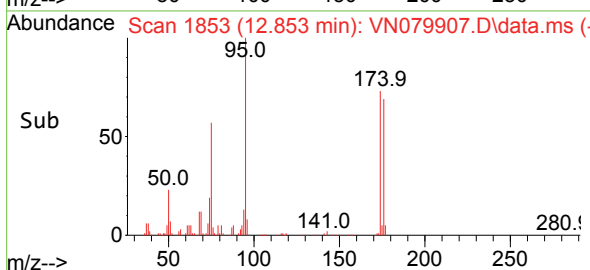
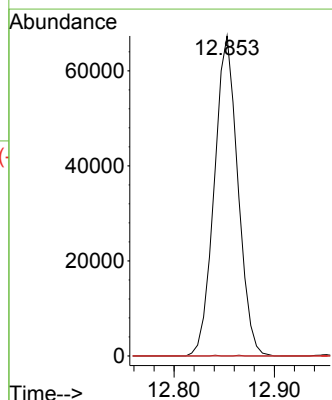
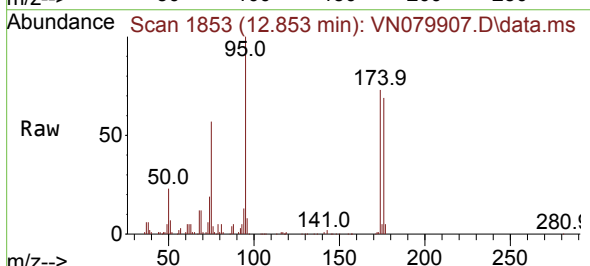
Tgt Ion: 75 Resp: 109847

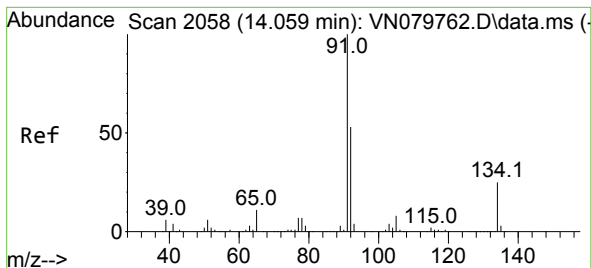
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#





#89

n-Butylbenzene

Concen: 0.279 ug/l

RT: 14.065 min Scan# 2059

Delta R.T. 0.006 min

Lab File: VN079907.D

Acq: 04 Nov 2023 20:52

Instrument :

MSVOA_N

ClientSampleId :

AT-OILY-DEBRIS

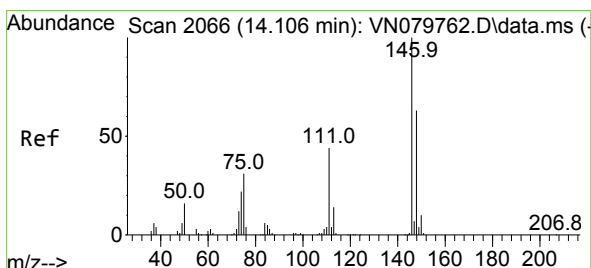
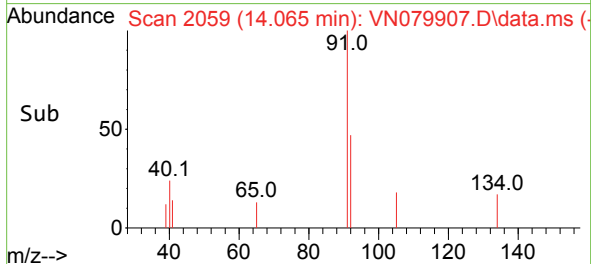
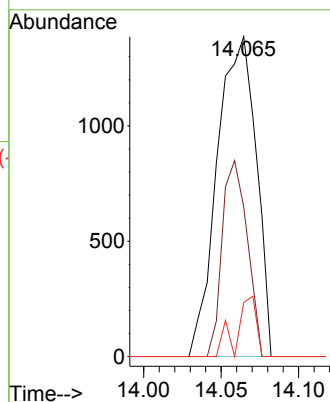
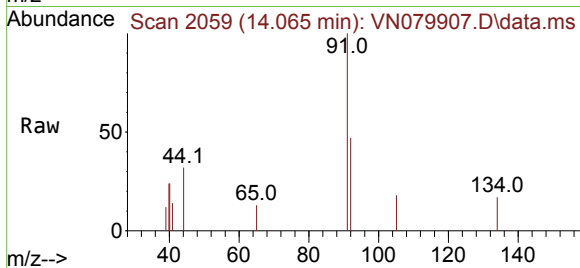
Tgt Ion: 91 Resp: 2419

Ion Ratio Lower Upper

91 100

92 39.5 26.4 79.0

134 9.5 12.6 37.6#



#91

1,2-Dichlorobenzene

Concen: 0.228 ug/l

RT: 14.112 min Scan# 2067

Delta R.T. 0.006 min

Lab File: VN079907.D

Acq: 04 Nov 2023 20:52

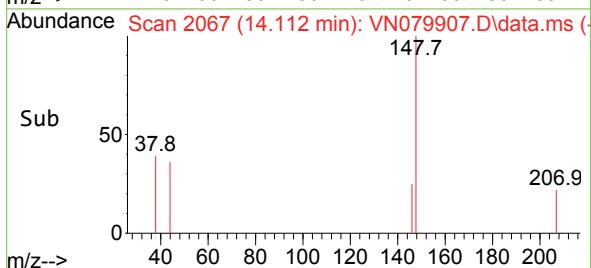
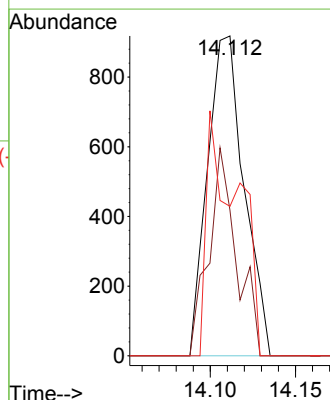
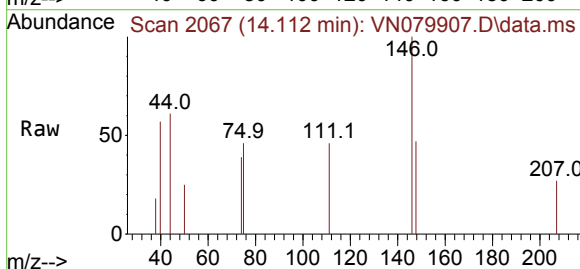
Tgt Ion: 146 Resp: 1372

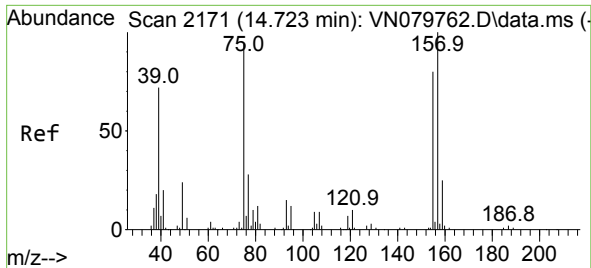
Ion Ratio Lower Upper

146 100

111 49.6 22.0 66.0

148 65.2 31.8 95.3

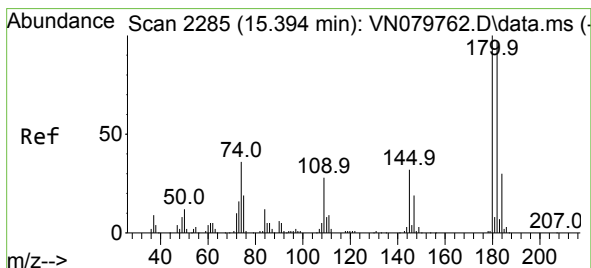
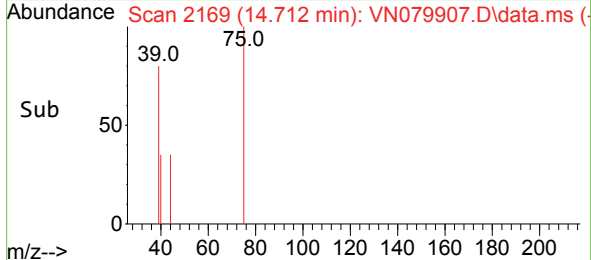
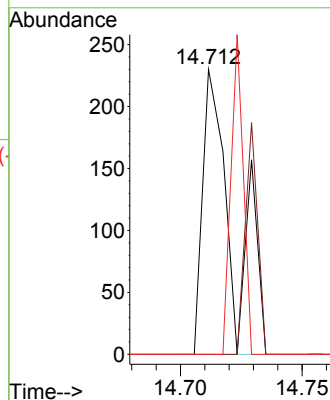
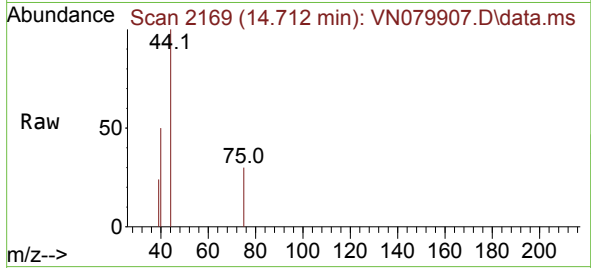




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.231 ug/l
RT: 14.712 min Scan# 2171
Delta R.T. -0.012 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

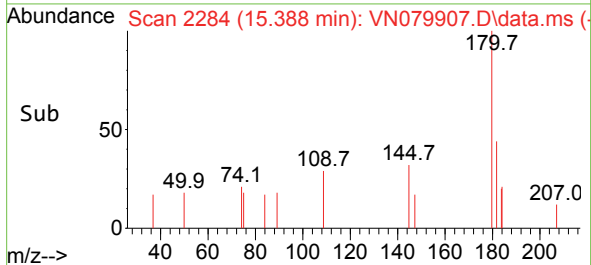
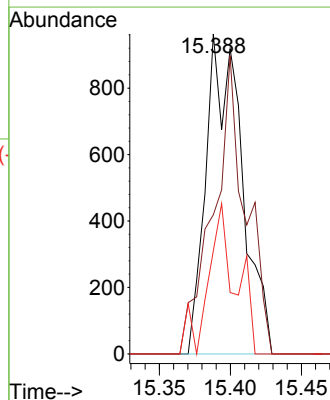
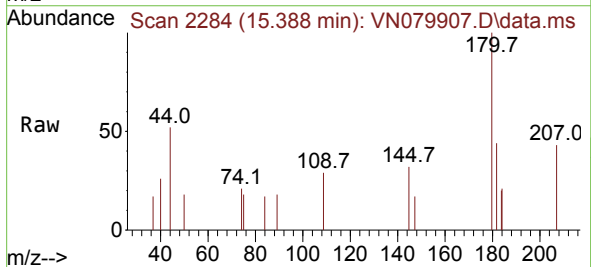
Instrument :
MSVOA_N
ClientSampleId :
AT-OILY-DEBRIS

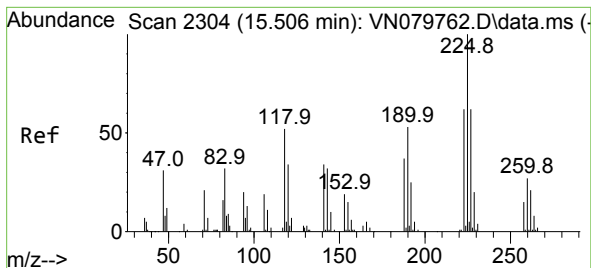
Tgt Ion: 75 Resp: 195
Ion Ratio Lower Upper
75 100
155 33.8 39.1 117.2#
157 46.7 50.3 150.9#



#93
1,2,4-Trichlorobenzene
Concen: 0.589 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.006 min
Lab File: VN079907.D
Acq: 04 Nov 2023 20:52

Tgt Ion: 180 Resp: 1688
Ion Ratio Lower Upper
180 100
182 83.9 46.1 138.2
145 36.3 16.6 49.8





#94

Hexachlorobutadiene

Concen: 0.638 ug/l

RT: 15.517 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN079907.D

Acq: 04 Nov 2023 20:52

Instrument :

MSVOA_N

ClientSampleId :

AT-OILY-DEBRIS

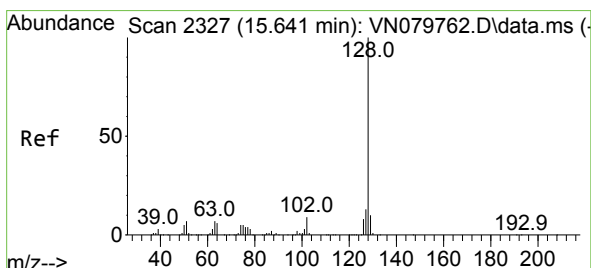
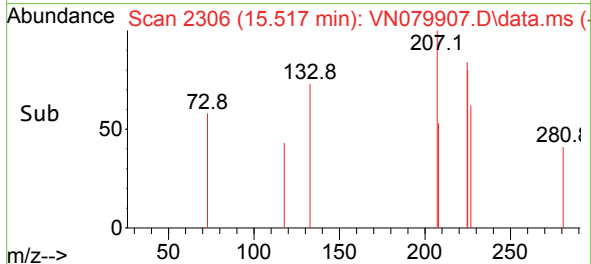
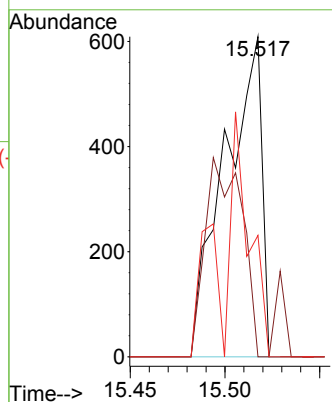
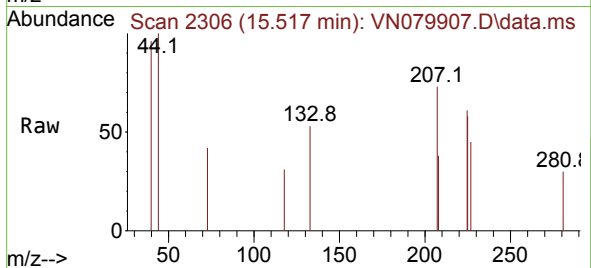
Tgt Ion:225 Resp: 829

Ion Ratio Lower Upper

225 100

223 7.0 31.3 93.8#

227 0.0 31.9 95.9#



#95

Naphthalene

Concen: 0.716 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. 0.006 min

Lab File: VN079907.D

Acq: 04 Nov 2023 20:52

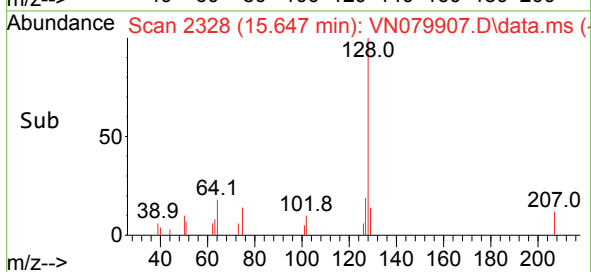
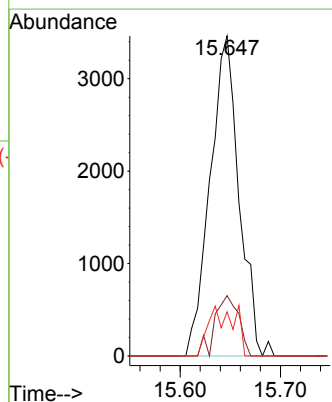
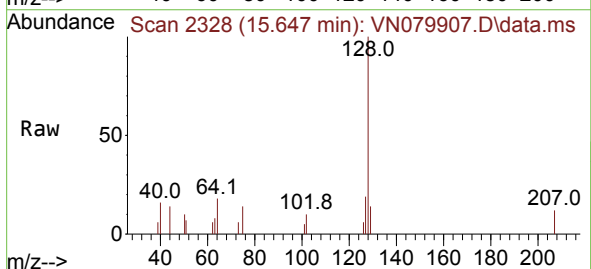
Tgt Ion:128 Resp: 6956

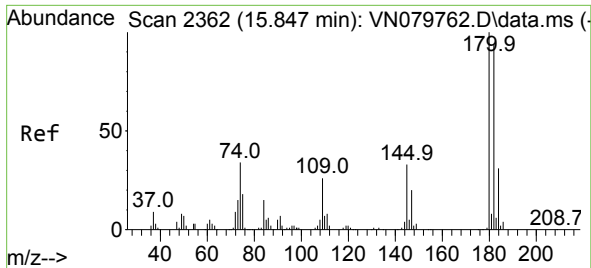
Ion Ratio Lower Upper

128 100

127 15.5 10.0 15.0#

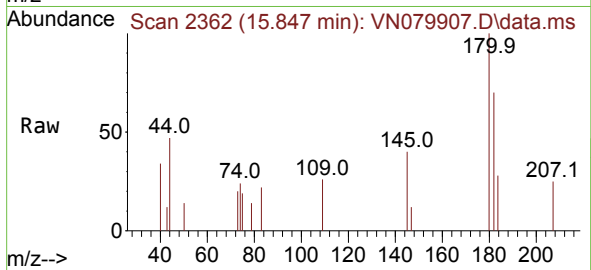
129 7.3 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.622 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN079907.D
 Acq: 04 Nov 2023 20:52

Instrument :
 MSVOA_N
 ClientSampleId :
 AT-OILY-DEBRIS



Tgt Ion:	180	Resp:	1745
Ion Ratio	Lower	Upper	
180	100		
182	126.9	46.2	138.6
145	34.6	17.5	52.6

