

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG062023\
 Data File : BG057773.D
 Acq On : 20 Jun 2023 12:47
 Operator : CG/JU
 Sample : 03262-07
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 WS-SOIL3-0615

Quant Time: Jun 20 14:03:47 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG061923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 20 03:40:38 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.925	152	48846	20.000	ng	0.00
21) Naphthalene-d8	10.727	136	197759	20.000	ng	0.00
39) Acenaphthene-d10	14.558	164	126711	20.000	ng	0.00
64) Phenanthrene-d10	17.302	188	277588	20.000	ng	0.00
76) Chrysene-d12	21.556	240	229142	20.000	ng	0.00
86) Perylene-d12	24.705	264	284997	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	363965	114.892	ng	0.00
7) Phenol-d6	7.090	99	504925	104.459	ng	0.00
23) Nitrobenzene-d5	9.088	82	305670	79.329	ng	0.00
42) 2,4,6-Tribromophenol	16.045	330	193884	109.845	ng	0.00
45) 2-Fluorobiphenyl	13.183	172	602794	72.155	ng	0.00
79) Terphenyl-d14	19.922	244	868611	70.684	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.436	88	67	0.046	ng	# 1
4) n-Nitrosodimethylamine	3.718	42	64	0.032	ng	# 1
9) Benzaldehyde	7.084	77	858	0.282	ng	# 4
10) Phenol	7.108	94	182	0.038	ng	# 1
15) Benzyl Alcohol	7.931	79	1398	0.378	ng	# 31
16) 2,2'-oxybis(1-Chloropr...	8.277	45	60	0.009	ng	74
19) n-Nitroso-di-n-propyla...	9.088	70	38044	11.289	ng	# 77
24) Nitrobenzene	9.082	77	872	0.217	ng	# 38
25) Isophorone	9.229	82	55	0.006	ng	# 71
31) Naphthalene	10.774	128	227	0.022	ng	# 69
37) 2-Methylnaphthalene	12.390	142	214	0.028	ng	# 14
38) 1-Methylnaphthalene	12.607	142	272	0.038	ng	# 90
46) 1,1'-Biphenyl	13.183	154	927	0.107	ng	# 1
48) 2-Nitroaniline	13.183	65	1173	0.494	ng	# 9
49) Acenaphthylene	14.288	152	124	0.011	ng	# 60
51) 2,6-Dinitrotoluene	14.558	165	16448	9.178	ng	# 20
52) Acenaphthene	14.623	154	986	0.139	ng	# 83
55) Dibenzofuran	14.952	168	255	0.022	ng	# 47
56) 4-Nitrophenol	14.946	139	54	0.034	ng	# 1
57) 2,4-Dinitrotoluene	14.558	165	16448	6.768	ng	# 20
58) Fluorene	15.604	166	1470	0.163	ng	# 86
60) Diethylphthalate	15.375	149	293	0.029	ng	# 60
62) 4-Nitroaniline	15.293	138	55	0.027	ng	# 14
63) Azobenzene	15.915	77	14747	1.444	ng	# 1
65) 4,6-Dinitro-2-methylph...	16.039	198	548	5.694	ng	# 1
66) n-Nitrosodiphenylamine	15.915	169	207	0.028	ng	# 33
67) 4-Bromophenyl-phenylether	16.045	248	13057	4.435	ng	# 1
71) Phenanthrene	17.343	178	34318	2.553	ng	95
72) Anthracene	17.437	178	7998	0.583	ng	98
73) Carbazole	17.701	167	1136	0.090	ng	# 77
74) Di-n-butylphthalate	18.265	149	2411	0.161	ng	# 92
75) Fluoranthene	19.352	202	71623	4.473	ng	98
77) Benzo(a)pyrene	19.916	184	12637	2.353	ng	# 95
78) Pyrene	19.717	202	130495	7.983	ng	100
80) Butylbenzylphthalate	20.610	149	859	0.138	ng	# 73
81) Benzo(a)anthracene	21.532	228	61115	3.887	ng	98

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

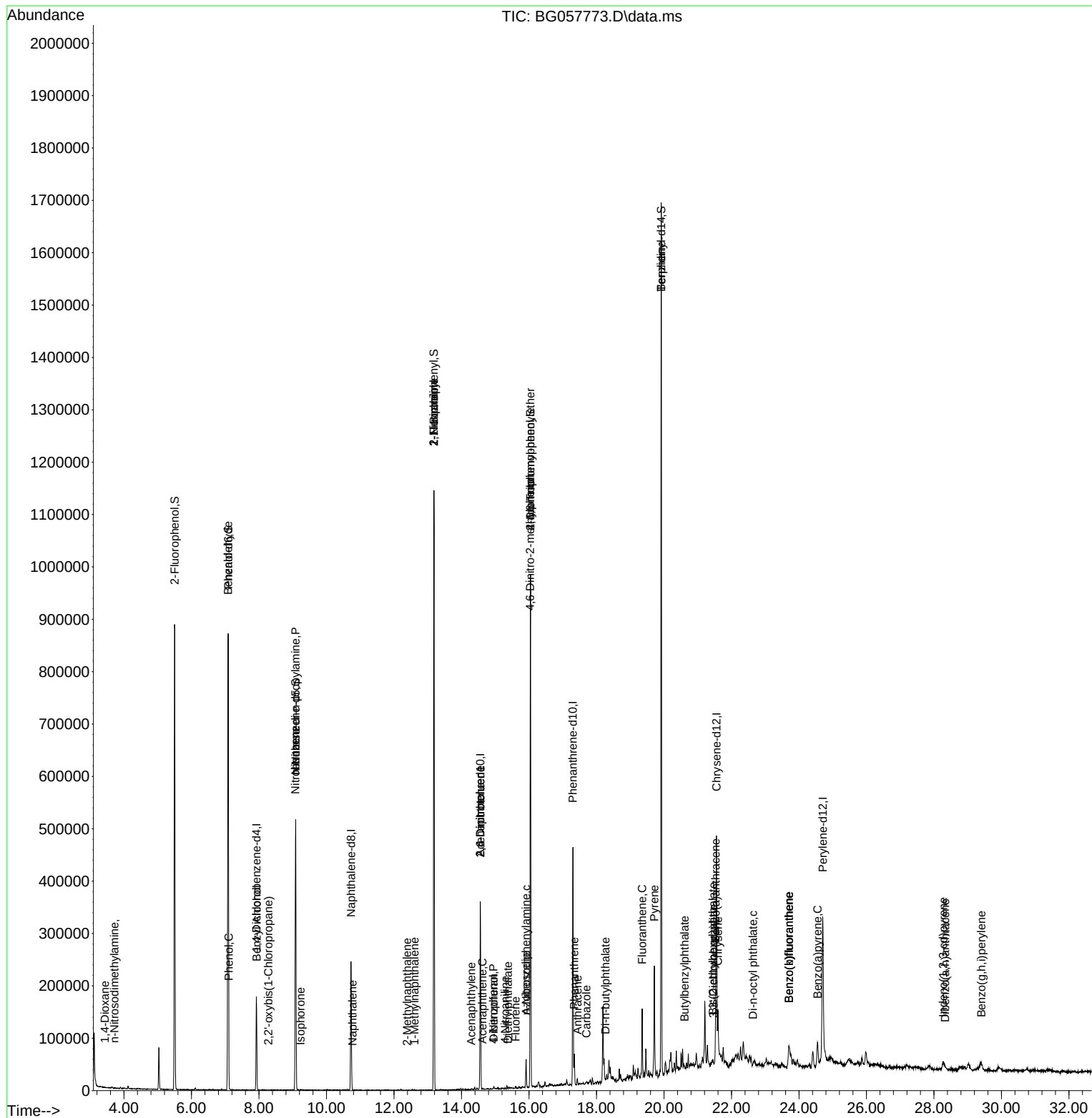
82) 3,3'-Dichlorobenzidine	21.468	252	200	0.037	ng	# 2
83) Chrysene	21.597	228	59293	3.930	ng	98
84) Bis(2-ethylhexyl)phtha...	21.450	149	2808	0.311	ng	# 73
85) Di-n-octyl phthalate	22.643	149	2048	0.129	ng	# 69
87) Indeno(1,2,3-cd)pyrene	28.271	276	26601	1.428	ng	99
88) Benzo(b)fluoranthene	23.706	252	50925	3.261	ng	# 97
89) Benzo(k)fluoranthene	23.706	252	50925	3.202	ng	# 96
90) Benzo(a)pyrene	24.552	252	49906	3.254	ng	97
91) Dibenzo(a,h)anthracene	28.330	278	9717	0.629	ng	# 90
92) Benzo(g,h,i)perylene	29.400	276	26638	1.721	ng	96

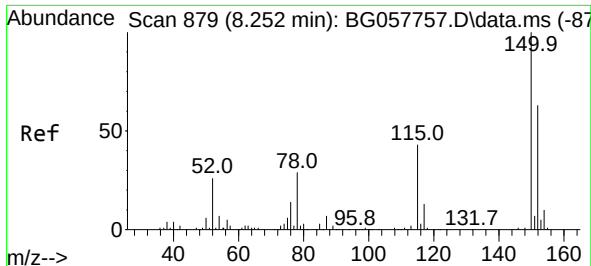
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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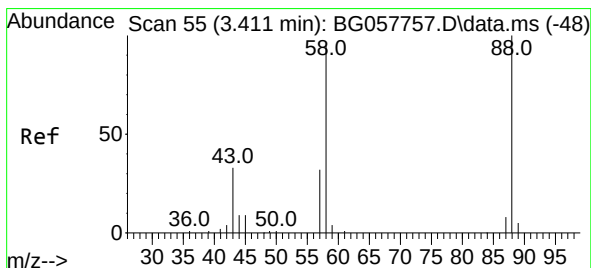
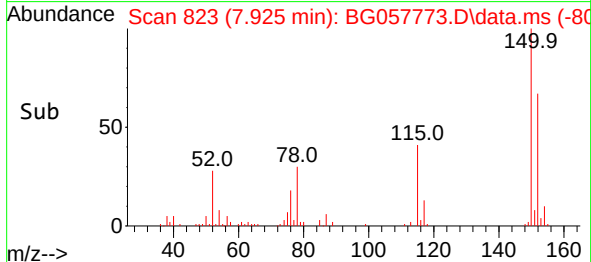
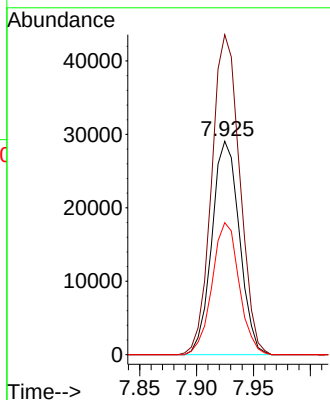
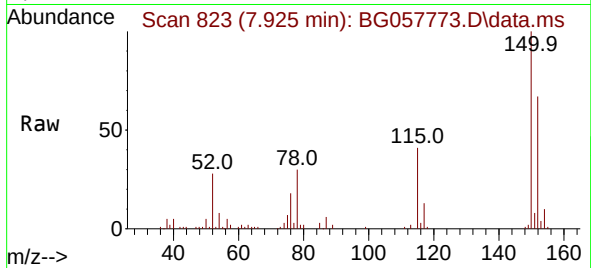




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.925 min Scan# 81
 Delta R.T. -0.004 min
 Lab File: BG057773.D
 Acq: 20 Jun 2023 12:47

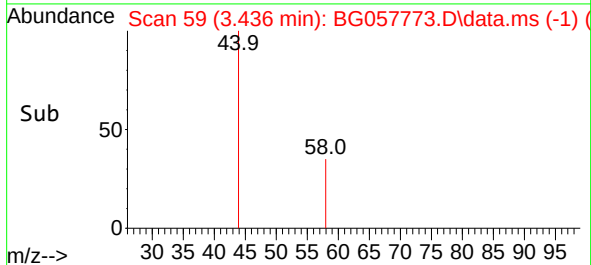
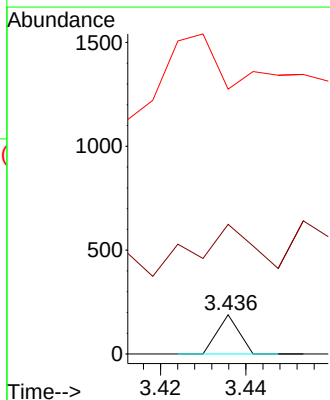
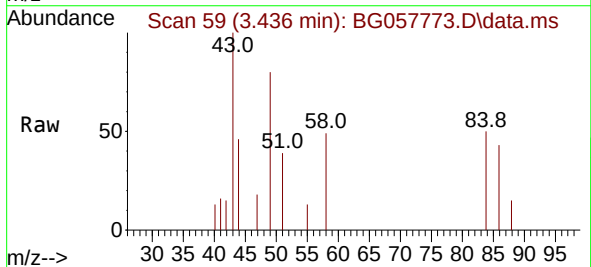
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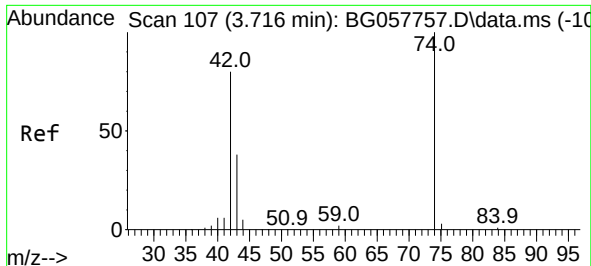
Tgt Ion:152 Resp: 48846
 Ion Ratio Lower Upper
 152 100
 150 150.0 126.6 189.8
 115 61.9 48.9 73.3



#2
 1,4-Dioxane
 Concen: 0.046 ng
 RT: 3.436 min Scan# 59
 Delta R.T. 0.025 min
 Lab File: BG057773.D
 Acq: 20 Jun 2023 12:47

Tgt Ion: 88 Resp: 67
 Ion Ratio Lower Upper
 88 100
 58 355.2 76.2 114.4#
 43 0.0 26.3 39.5#

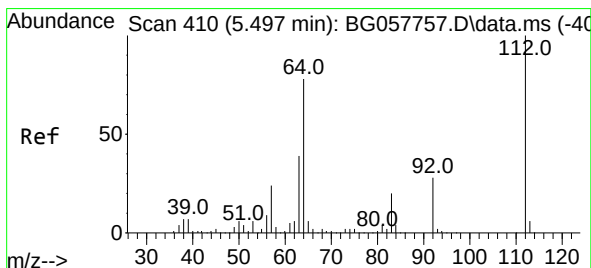
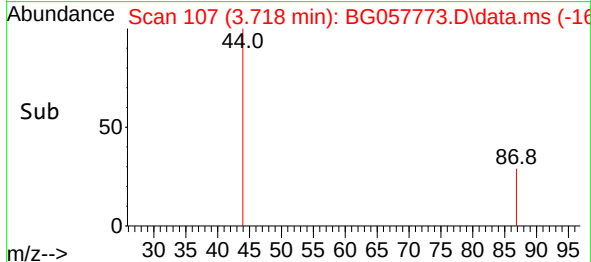
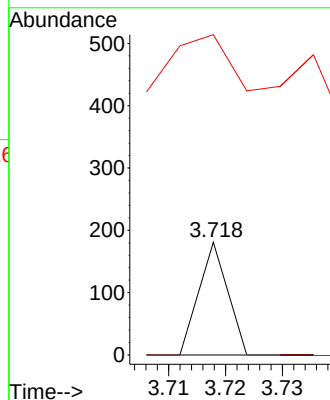
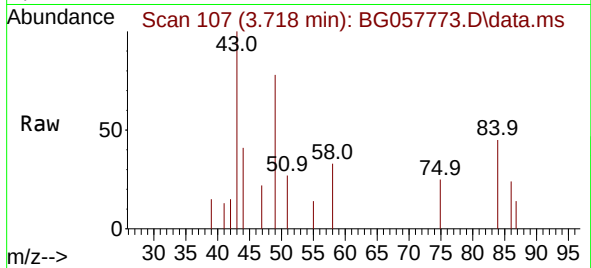




#4
n-Nitrosodimethylamine
Concen: 0.032 ng
RT: 3.718 min Scan# 107
Delta R.T. 0.002 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

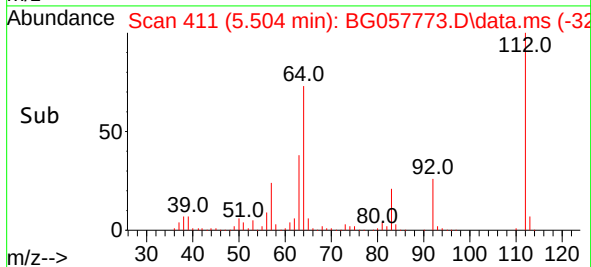
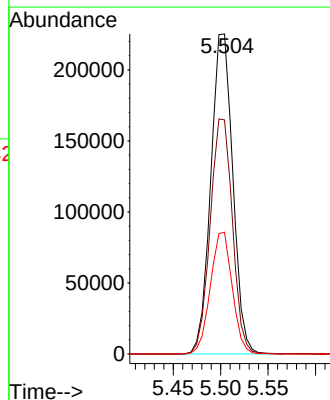
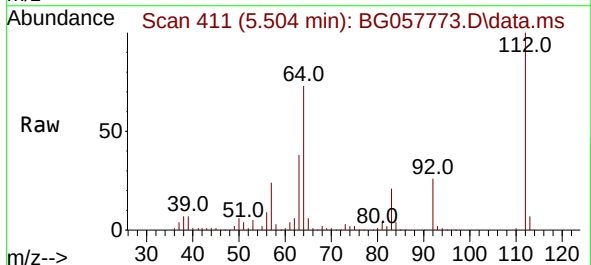
Instrument :
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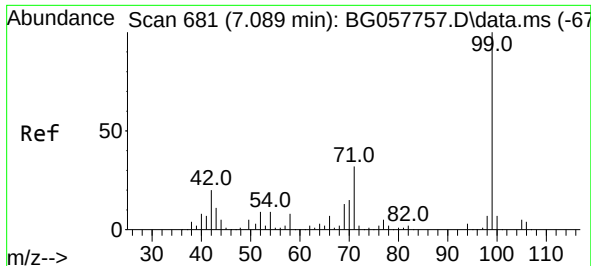
Tgt Ion: 42 Resp: 64
Ion Ratio Lower Upper
42 100
74 0.0 99.9 149.9#
44 284.0 6.0 9.0#



#5
2-Fluorophenol
Concen: 114.892 ng
RT: 5.504 min Scan# 411
Delta R.T. 0.007 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion: 112 Resp: 363965
Ion Ratio Lower Upper
112 100
64 73.1 62.1 93.1
63 38.1 31.5 47.3

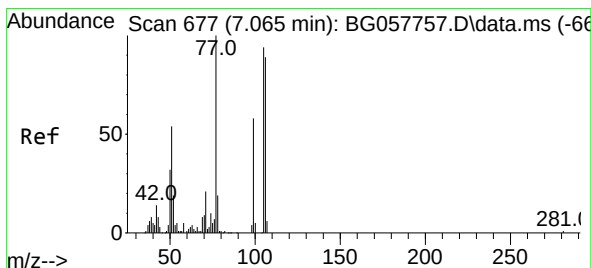
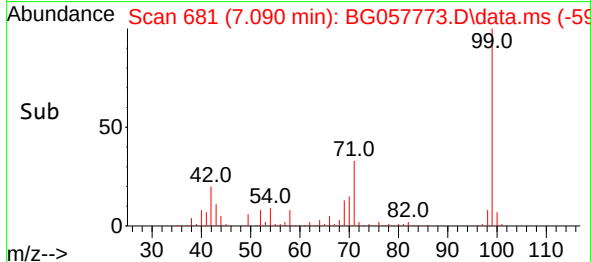
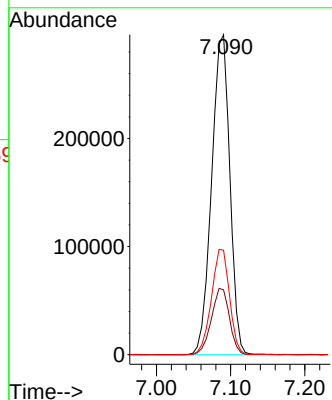
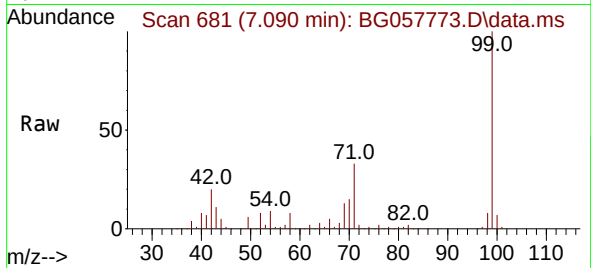




#7
Phenol-d6
Concen: 104.459 ng
RT: 7.090 min Scan# 61
Delta R.T. 0.001 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

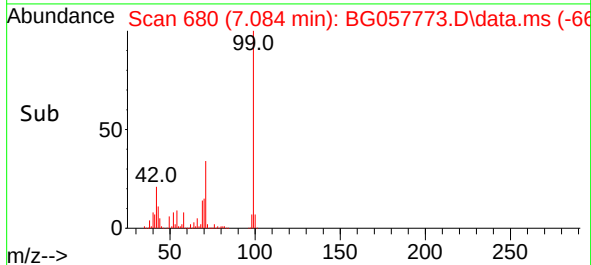
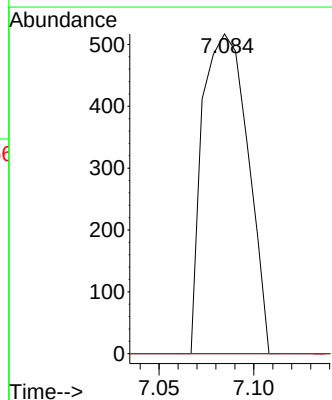
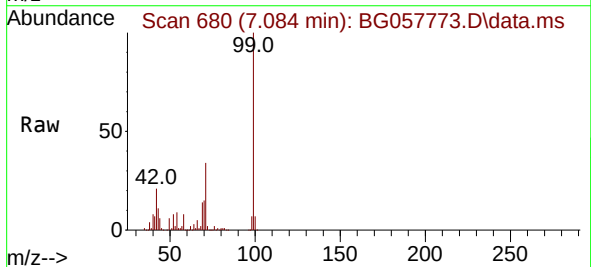
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

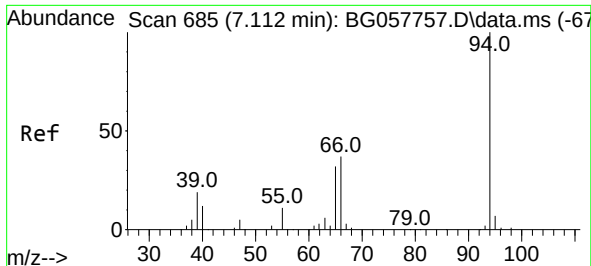
Tgt Ion: 99 Resp: 504925
Ion Ratio Lower Upper
99 100
42 20.3 16.4 24.6
71 32.7 25.8 38.6



#9
Benzaldehyde
Concen: 0.282 ng
RT: 7.084 min Scan# 680
Delta R.T. 0.019 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion: 77 Resp: 858
Ion Ratio Lower Upper
77 100
105 0.0 73.7 113.7#
106 0.0 69.0 109.0#

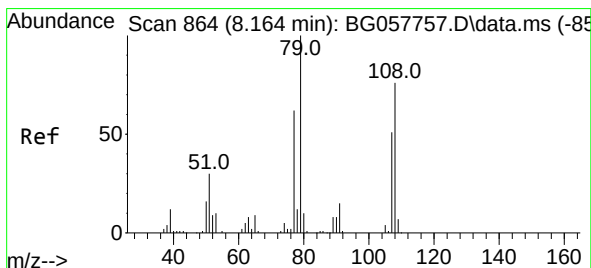
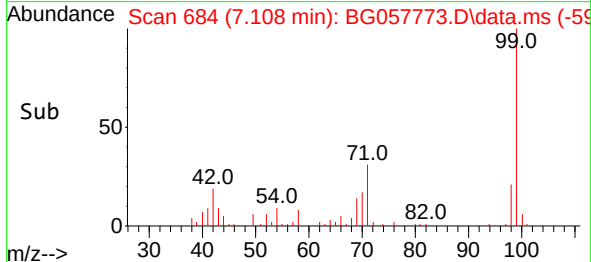
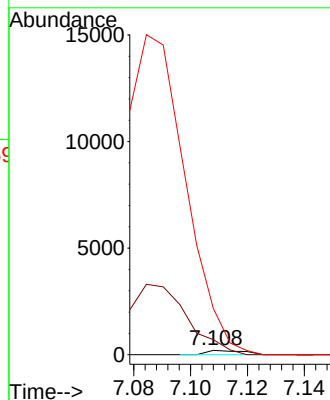
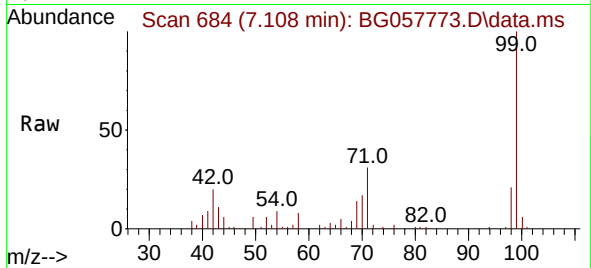




#10
Phenol
Concen: 0.038 ng
RT: 7.108 min Scan# 61
Delta R.T. -0.004 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

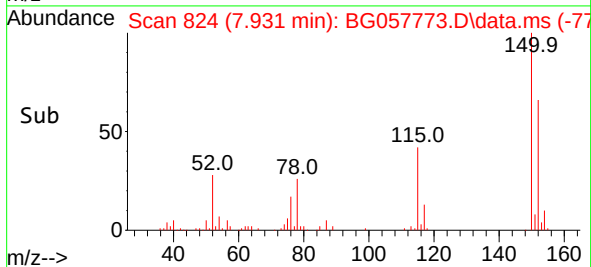
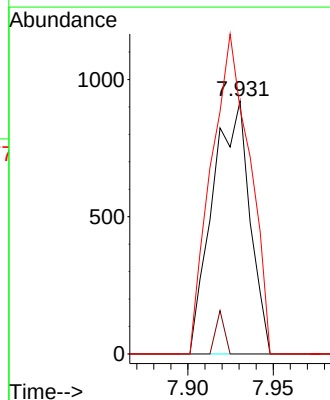
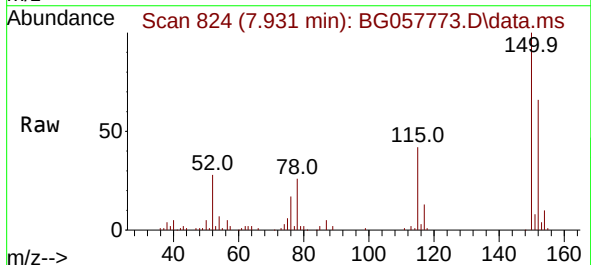
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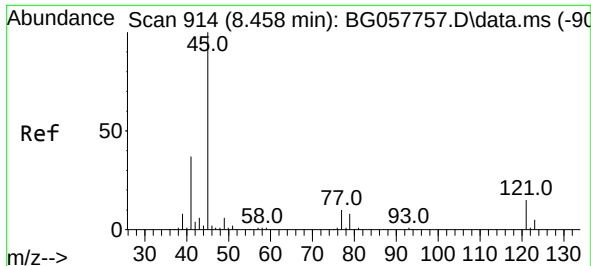
Tgt Ion: 94 Resp: 182
Ion Ratio Lower Upper
94 100
65 346.6 12.2 52.2#
66 1063.2 18.3 58.3#



#15
Benzyl Alcohol
Concen: 0.378 ng
RT: 7.931 min Scan# 824
Delta R.T. -0.234 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion: 79 Resp: 1398
Ion Ratio Lower Upper
79 100
108 0.0 60.5 90.7#
77 96.9 49.3 73.9#

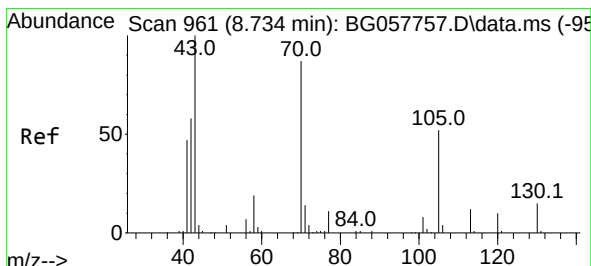
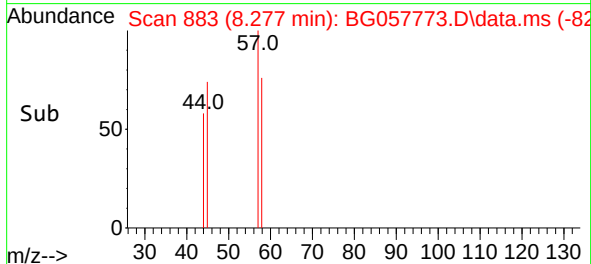
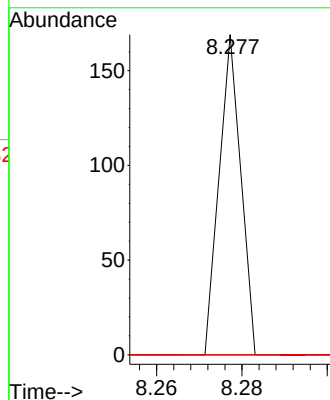
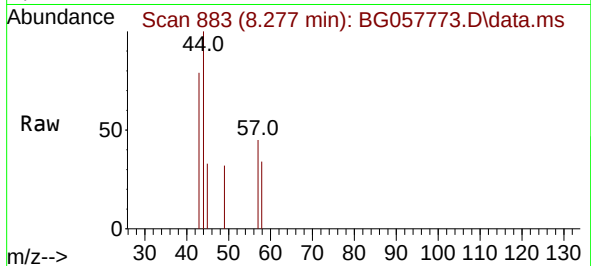




#16
2,2'-oxybis(1-Chloropropane)
Concen: 0.009 ng
RT: 8.277 min Scan# 81
Delta R.T. -0.181 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

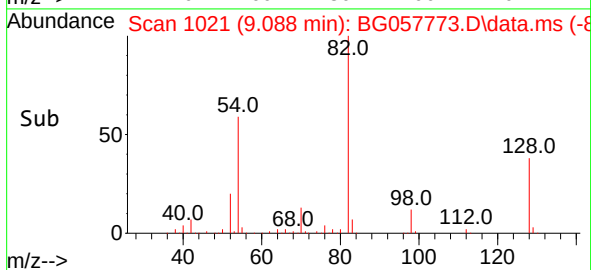
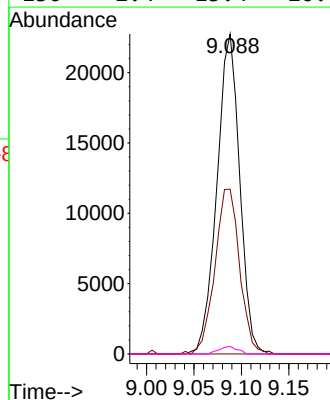
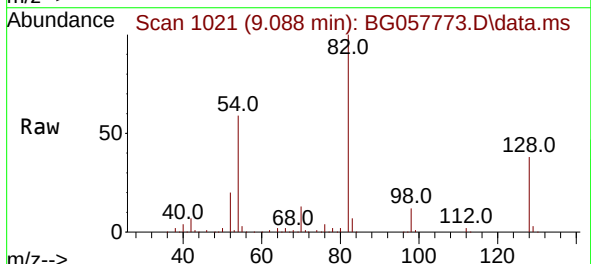
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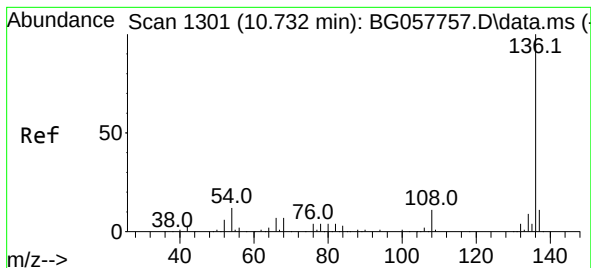
Tgt Ion: 45 Resp: 60
Ion Ratio Lower Upper
45 100
77 0.0 0.0 30.6
79 0.0 0.0 28.3



#19
n-Nitroso-di-n-propylamine
Concen: 11.289 ng
RT: 9.088 min Scan# 1021
Delta R.T. 0.354 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion: 70 Resp: 38044
Ion Ratio Lower Upper
70 100
42 51.5 54.2 81.2#
101 0.0 7.4 11.0#
130 2.4 13.4 20.0#

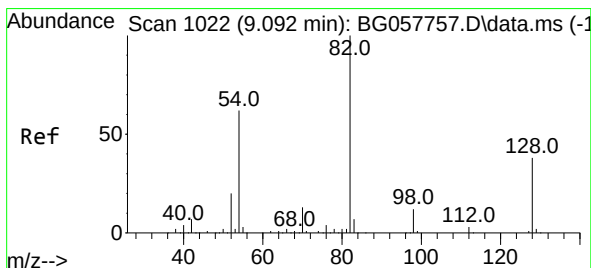
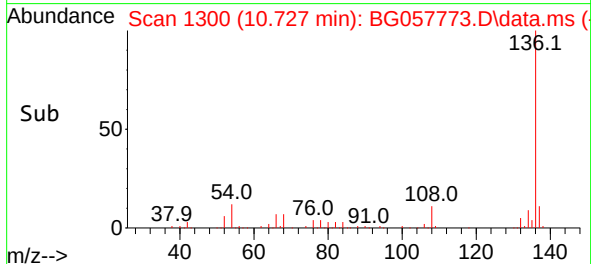
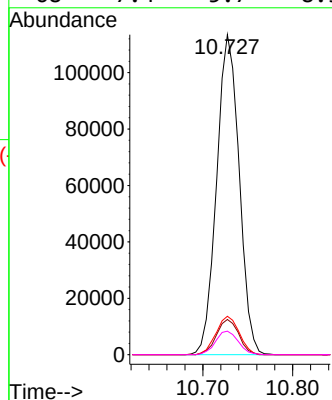
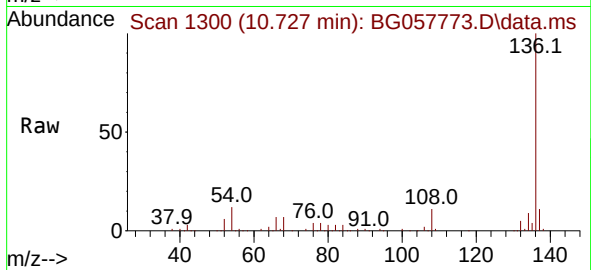




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.727 min Scan# 11
Delta R.T. -0.005 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

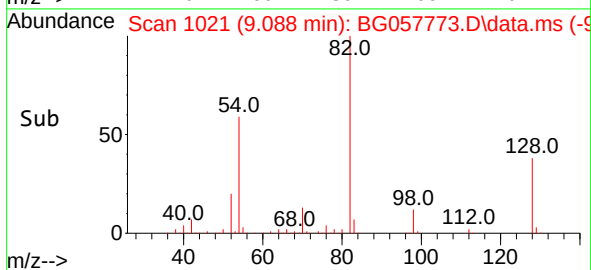
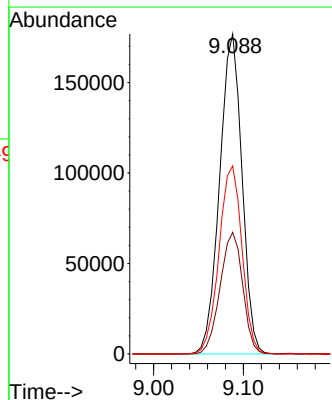
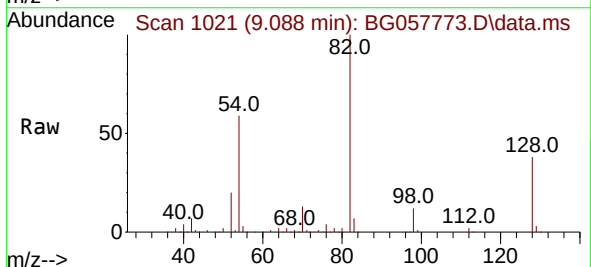
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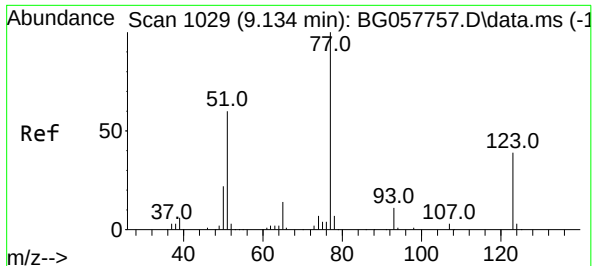
Tgt Ion:	136	Resp:	197759
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	12.0	9.5	14.3
68	7.4	5.7	8.5



#23
Nitrobenzene-d5
Concen: 79.329 ng
RT: 9.088 min Scan# 1021
Delta R.T. -0.004 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion:	82	Resp:	305670
Ion	Ratio	Lower	Upper
82	100		
128	38.0	30.7	46.1
54	58.8	49.6	74.4

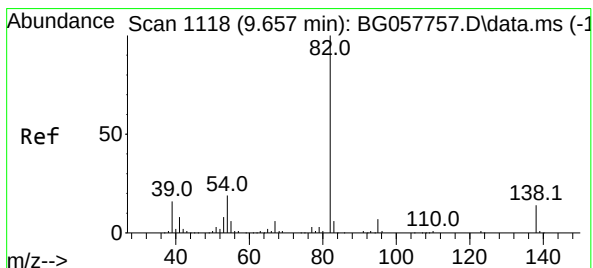
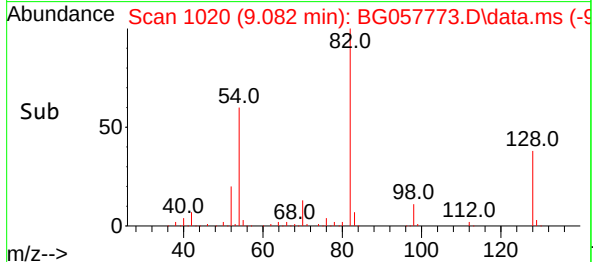
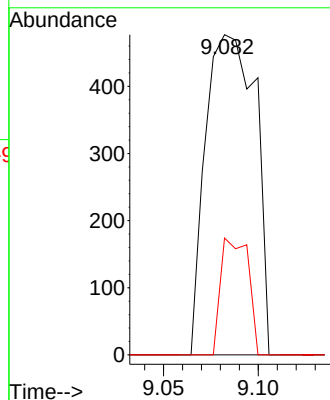
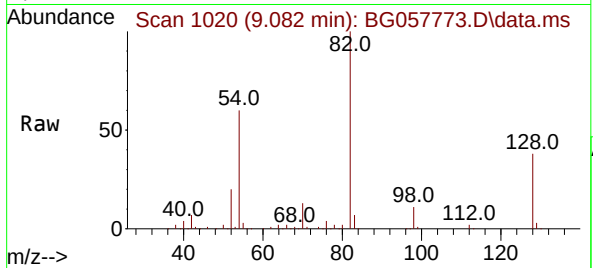




#24
Nitrobenzene
Concen: 0.217 ng
RT: 9.082 min Scan# 1045
Delta R.T. -0.052 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

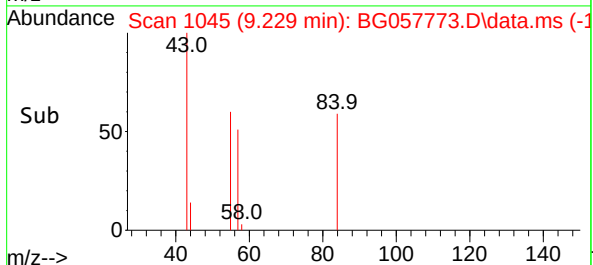
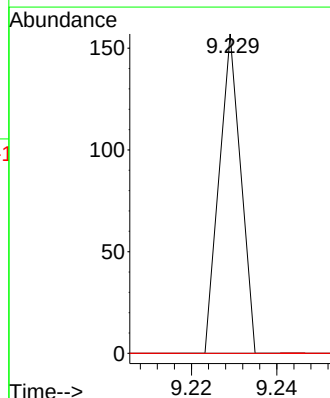
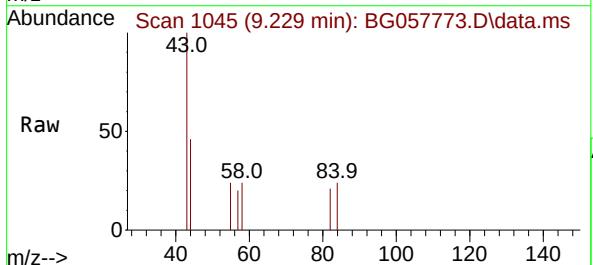
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

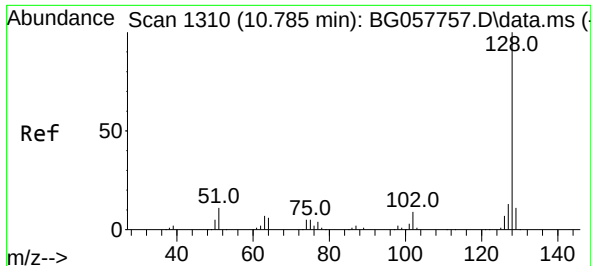
Tgt Ion: 77 Resp: 872
Ion Ratio Lower Upper
77 100
123 0.0 31.4 47.2#
65 36.5 11.2 16.8#



#25
Isophorone
Concen: 0.006 ng
RT: 9.229 min Scan# 1045
Delta R.T. -0.428 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion: 82 Resp: 55
Ion Ratio Lower Upper
82 100
95 0.0 5.2 7.8#
138 0.0 11.1 16.7#

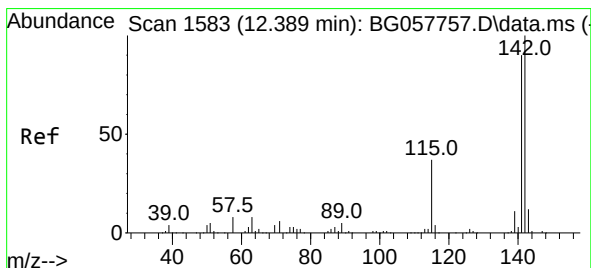
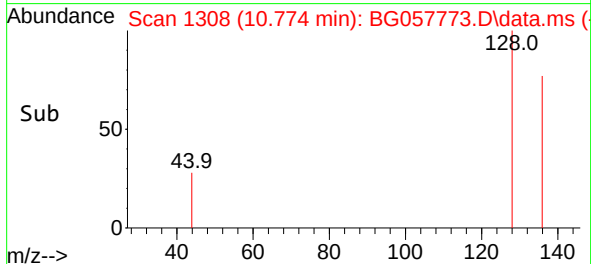
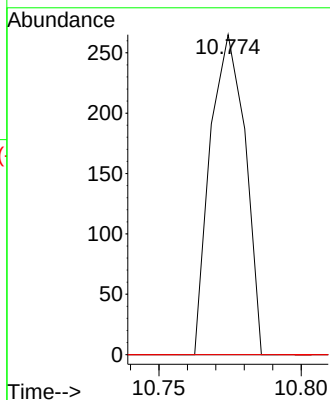
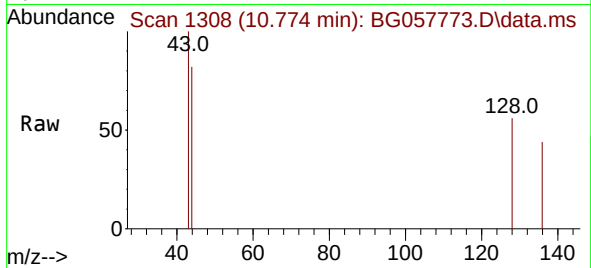




#31
Naphthalene
Concen: 0.022 ng
RT: 10.774 min Scan# 11
Delta R.T. -0.010 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

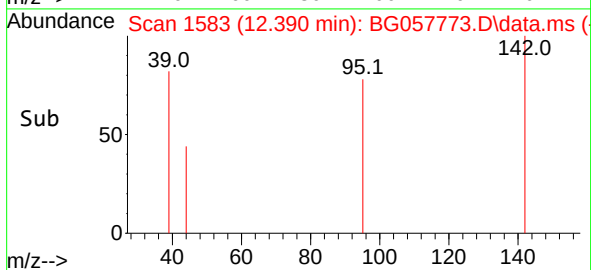
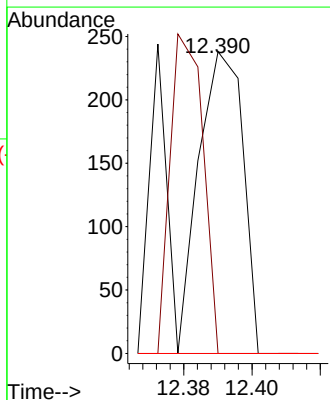
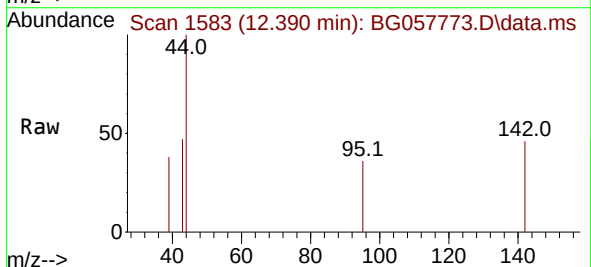
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

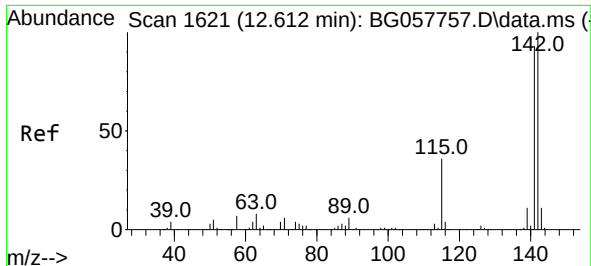
Tgt Ion:128 Resp: 227
Ion Ratio Lower Upper
128 100
129 0.0 8.5 12.7#
127 0.0 10.7 16.1#



#37
2-Methylnaphthalene
Concen: 0.028 ng
RT: 12.390 min Scan# 1583
Delta R.T. 0.001 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion:142 Resp: 214
Ion Ratio Lower Upper
142 100
141 0.0 72.1 108.1#
115 0.0 29.7 44.5#

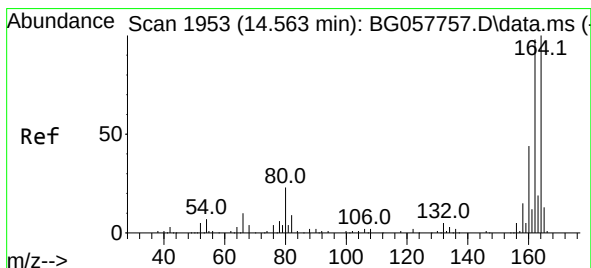
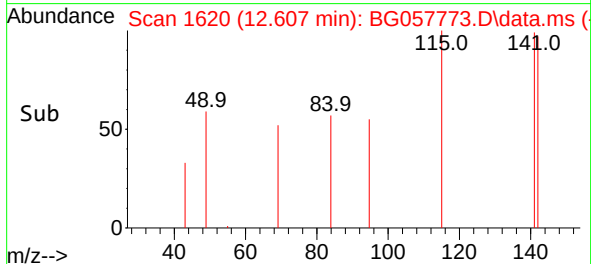
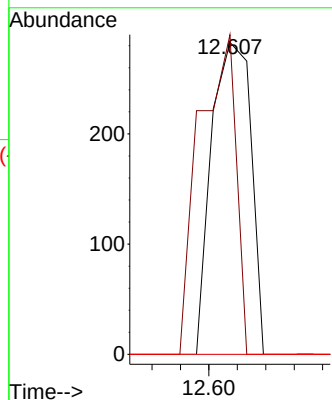
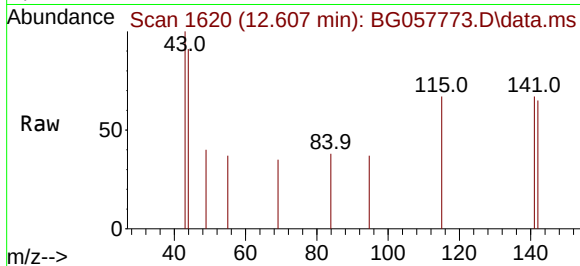




#38
1-Methylnaphthalene
Concen: 0.038 ng
RT: 12.607 min Scan# 1
Delta R.T. -0.005 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

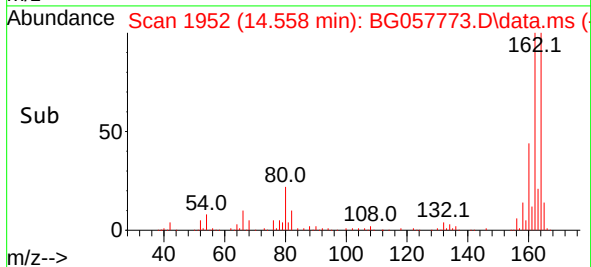
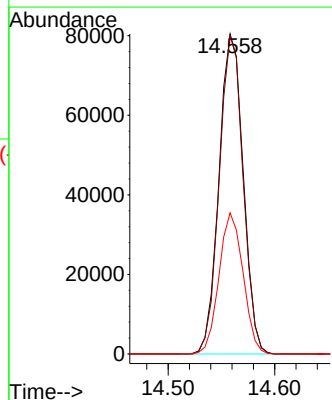
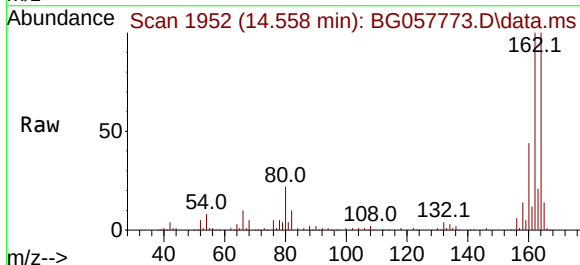
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

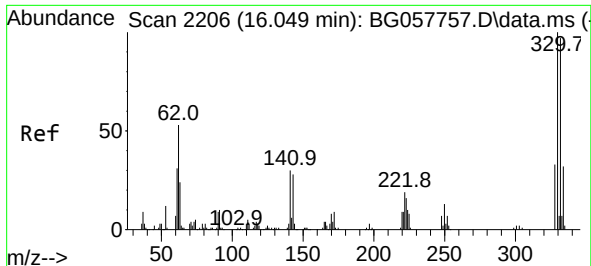
Tgt Ion:142 Resp: 272
Ion Ratio Lower Upper
142 100
141 102.5 74.2 111.4
116 0.0 3.1 4.7#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.558 min Scan# 1952
Delta R.T. -0.004 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion:164 Resp: 126711
Ion Ratio Lower Upper
164 100
162 99.5 78.3 117.5
160 44.1 35.4 53.0

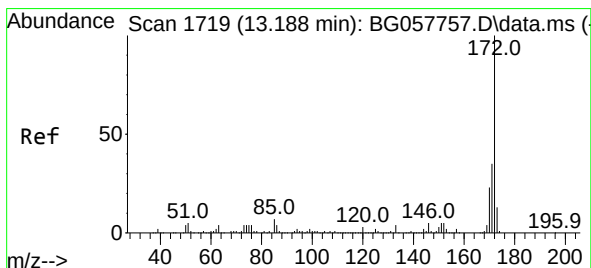
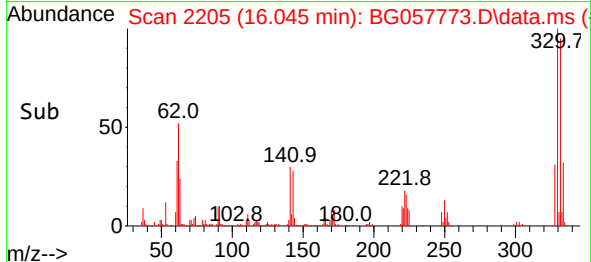
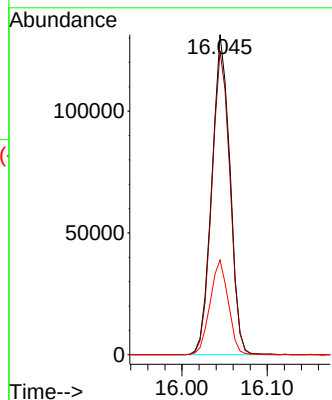
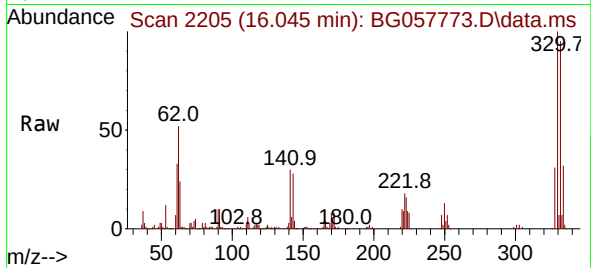




#42
2,4,6-Tribromophenol
Concen: 109.845 ng
RT: 16.045 min Scan# 21
Delta R.T. -0.005 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

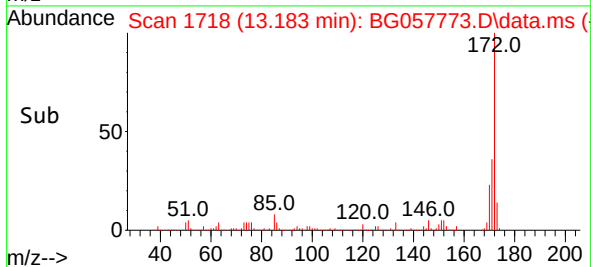
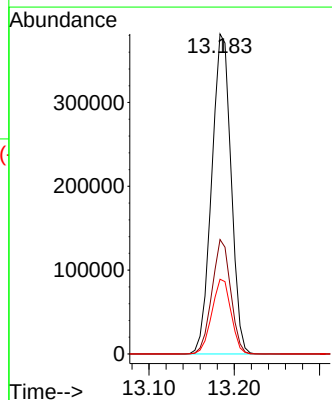
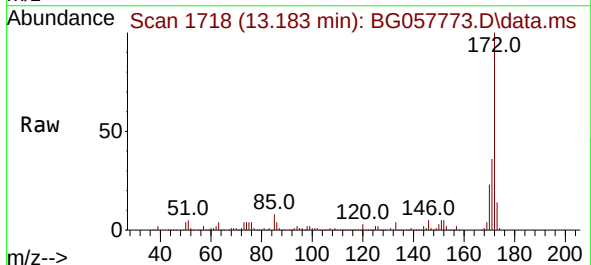
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

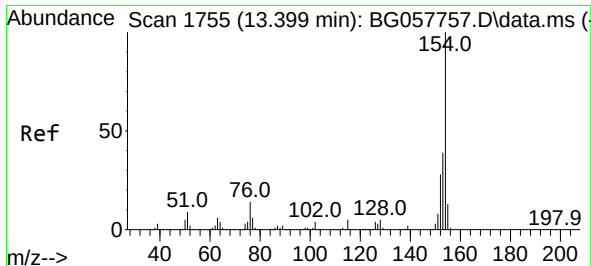
Tgt Ion:330 Resp: 193884
Ion Ratio Lower Upper
330 100
332 95.8 76.6 115.0
141 29.6 24.7 37.1



#45
2-Fluorobiphenyl
Concen: 72.155 ng
RT: 13.183 min Scan# 1718
Delta R.T. -0.004 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion:172 Resp: 602794
Ion Ratio Lower Upper
172 100
171 35.7 28.1 42.1
170 23.4 18.6 27.8

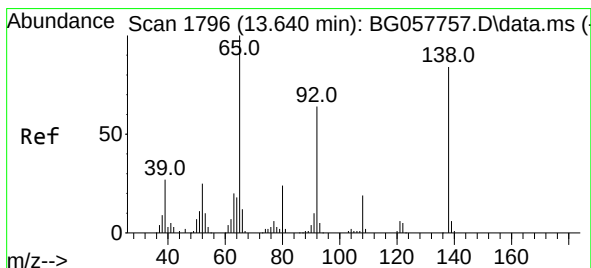
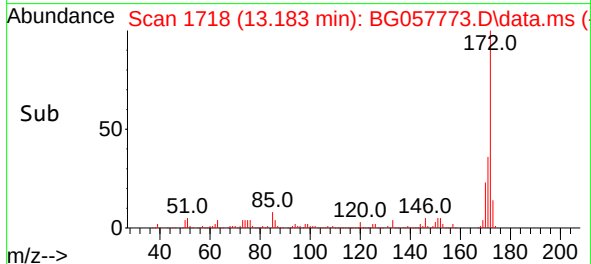
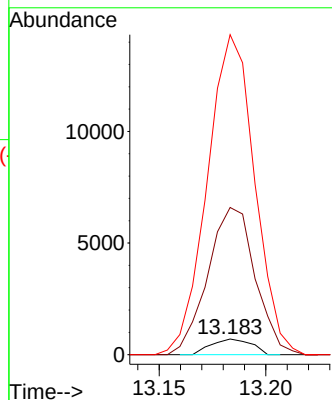
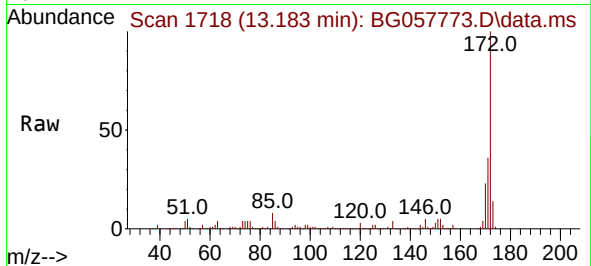




#46
1,1'-Biphenyl
Concen: 0.107 ng
RT: 13.183 min Scan# 1718
Delta R.T. -0.216 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

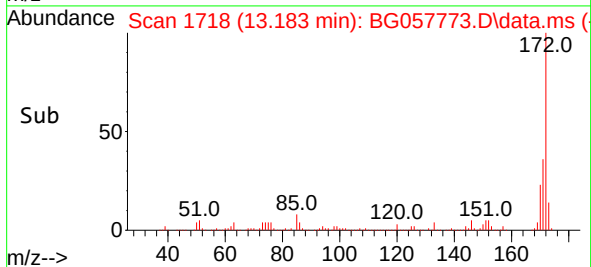
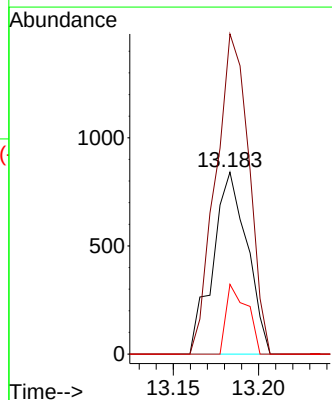
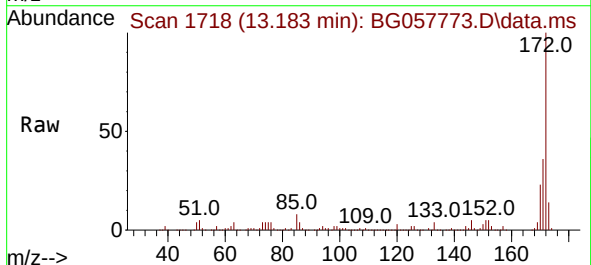
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

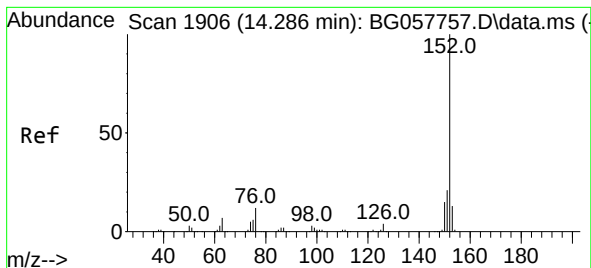
Tgt Ion:154 Resp: 927
Ion Ratio Lower Upper
154 100
153 937.7 19.1 59.1#
76 2039.0 0.0 34.3#



#48
2-Nitroaniline
Concen: 0.494 ng
RT: 13.183 min Scan# 1718
Delta R.T. -0.457 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion: 65 Resp: 1173
Ion Ratio Lower Upper
65 100
92 176.0 51.2 76.8#
138 38.3 67.2 100.8#





#49

Acenaphthylene

Concen: 0.011 ng

RT: 14.288 min Scan# 1906

Delta R.T. 0.001 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

Instrument :

BNA_G

ClientSampleId :

WS-SOIL3-0615

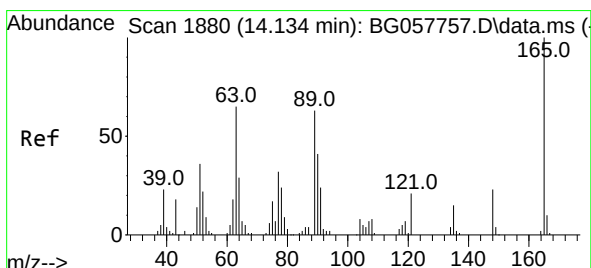
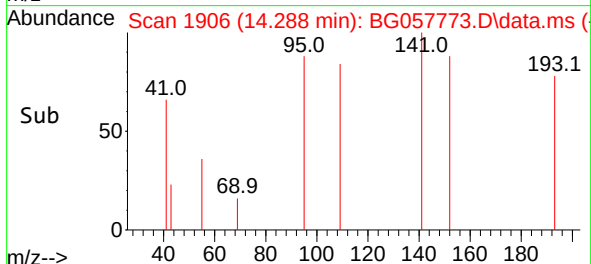
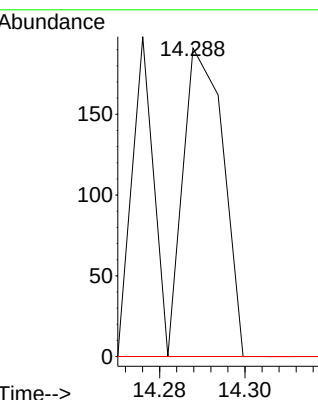
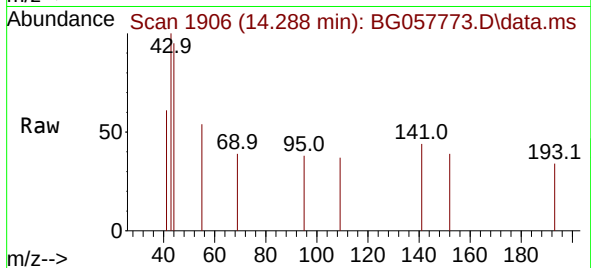
Tgt Ion:152 Resp: 124

Ion Ratio Lower Upper

152 100

151 0.0 17.0 25.4#

153 0.0 10.5 15.7#



#51

2,6-Dinitrotoluene

Concen: 9.178 ng

RT: 14.558 min Scan# 1952

Delta R.T. 0.424 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

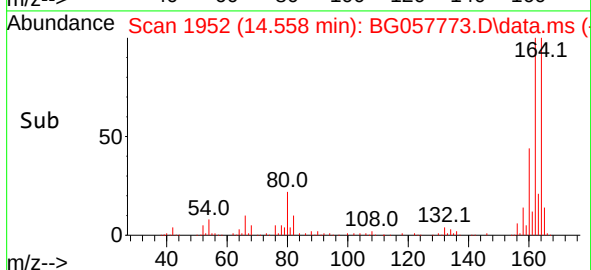
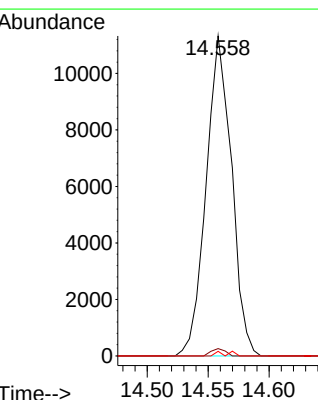
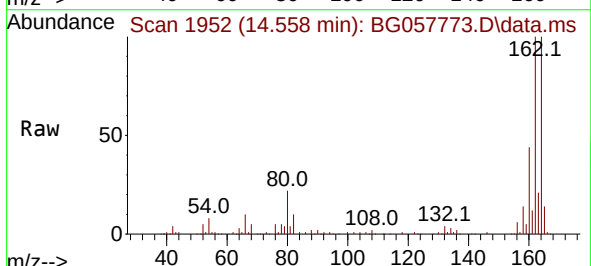
Tgt Ion:165 Resp: 16448

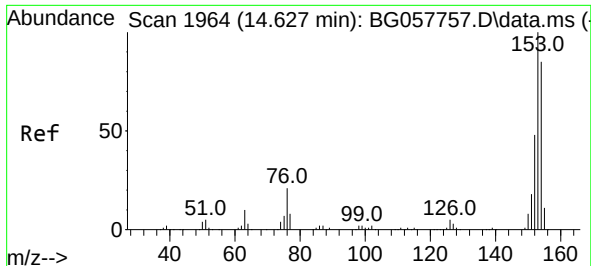
Ion Ratio Lower Upper

165 100

63 2.3 52.8 79.2#

89 1.4 50.7 76.1#

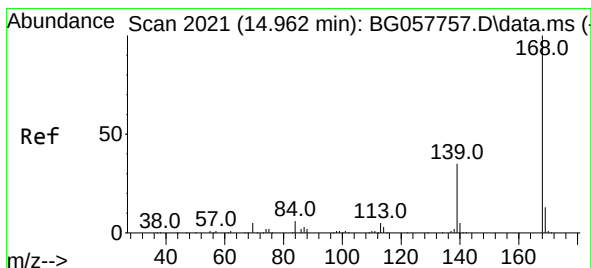
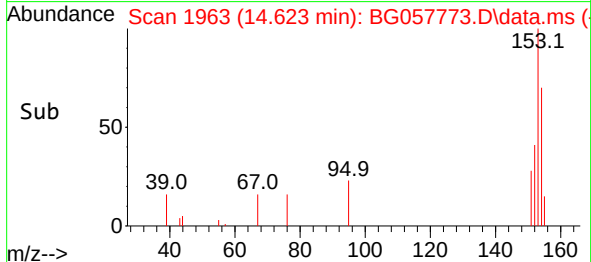
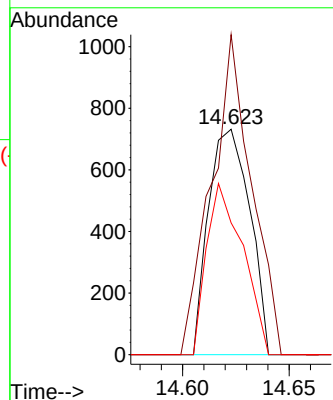
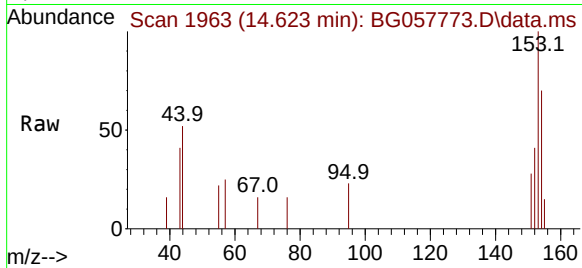




#52
Acenaphthene
Concen: 0.139 ng
RT: 14.623 min Scan# 1963
Delta R.T. -0.004 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

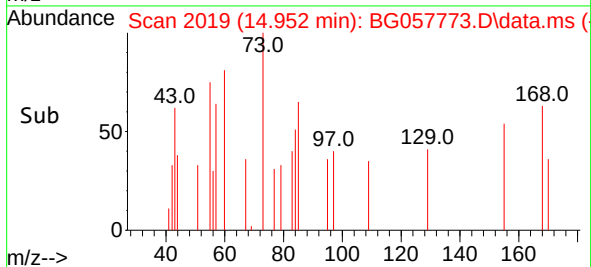
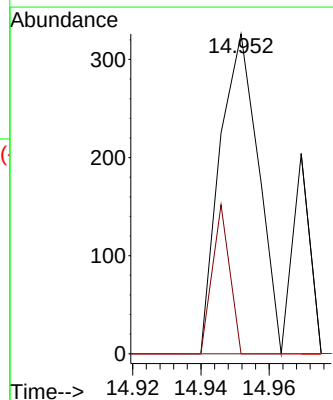
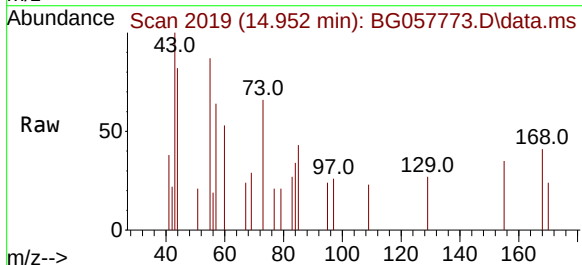
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

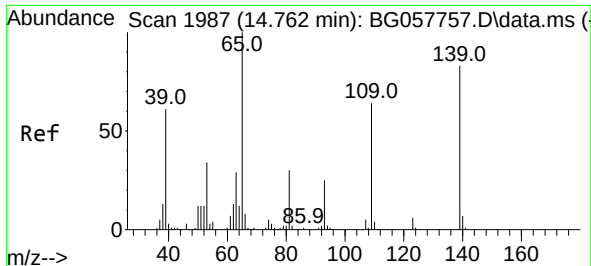
Tgt Ion:154 Resp: 986
Ion Ratio Lower Upper
154 100
153 141.9 93.6 140.4#
152 58.5 44.7 67.1



#55
Dibenzofuran
Concen: 0.022 ng
RT: 14.952 min Scan# 2019
Delta R.T. -0.010 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion:168 Resp: 255
Ion Ratio Lower Upper
168 100
139 0.0 28.1 42.1#
169 0.0 10.7 16.1#

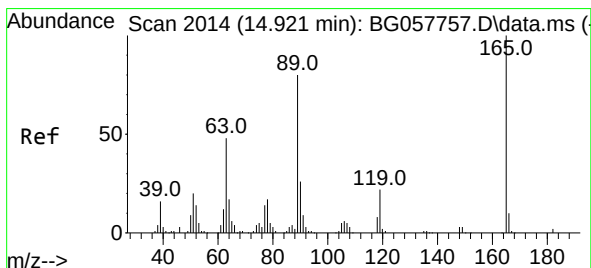
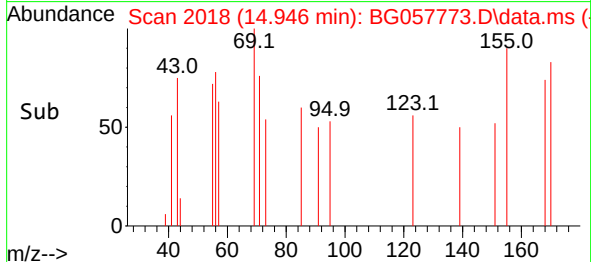
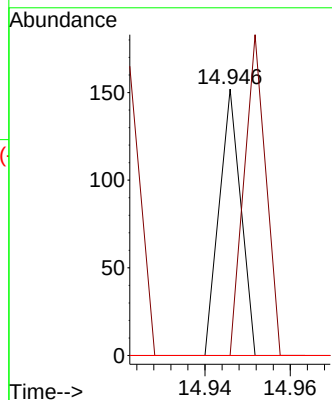
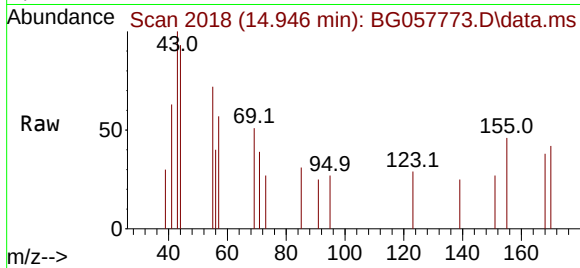




#56
4-Nitrophenol
Concen: 0.034 ng
RT: 14.946 min Scan# 20
Delta R.T. 0.184 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

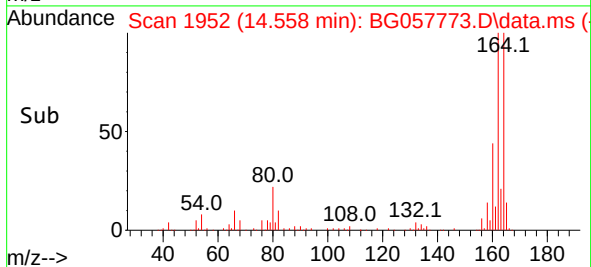
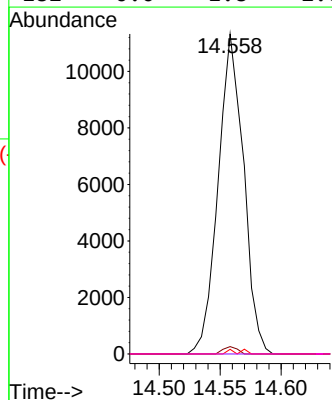
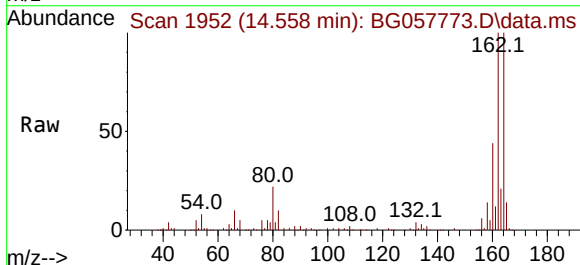
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

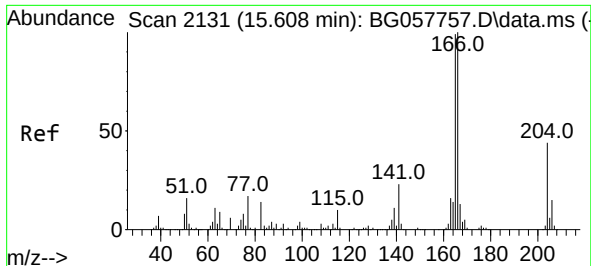
Tgt Ion:139 Resp: 54
Ion Ratio Lower Upper
139 100
109 0.0 57.3 97.3#
65 0.0 100.0 140.0#



#57
2,4-Dinitrotoluene
Concen: 6.768 ng
RT: 14.558 min Scan# 1952
Delta R.T. -0.363 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion:165 Resp: 16448
Ion Ratio Lower Upper
165 100
63 2.3 38.6 58.0#
89 1.4 63.7 95.5#
182 0.0 1.8 2.6#

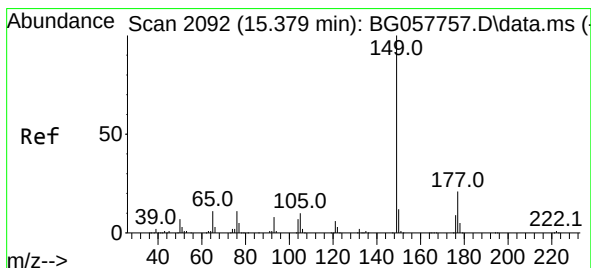
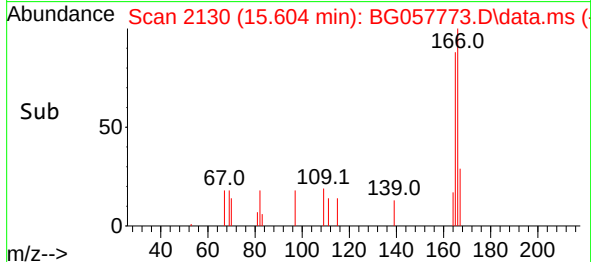
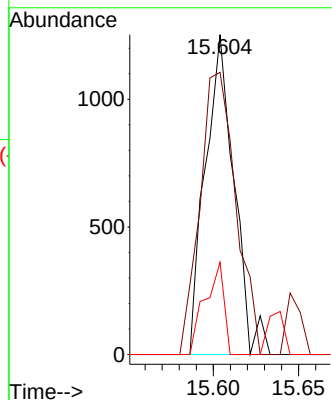
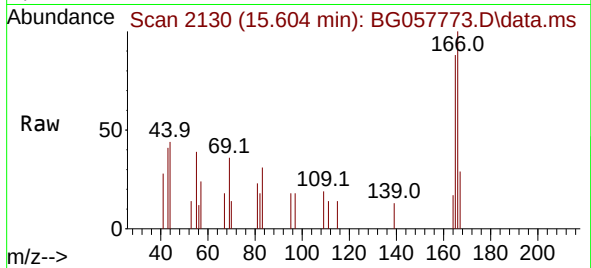




#58
Fluorene
Concen: 0.163 ng
RT: 15.604 min Scan# 2131
Delta R.T. -0.004 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

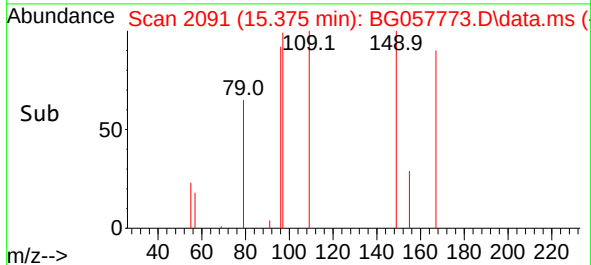
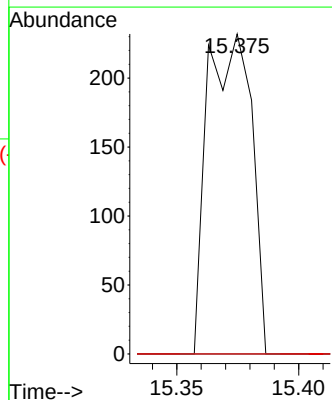
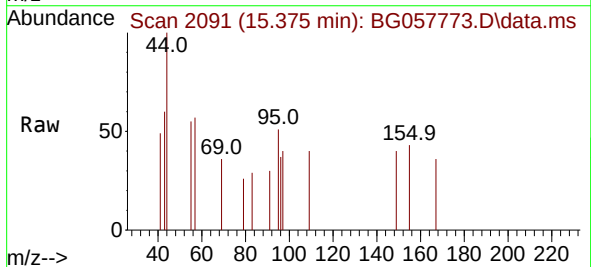
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

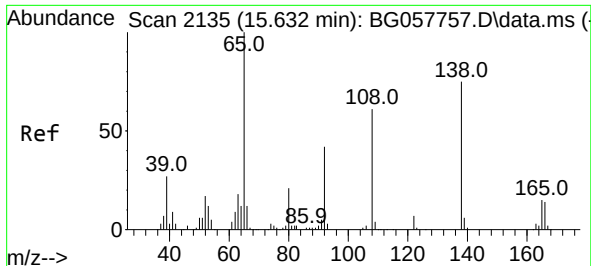
Tgt Ion:166 Resp: 1470
Ion Ratio Lower Upper
166 100
165 88.3 79.5 119.3
167 28.9 10.6 16.0#



#60
Diethylphthalate
Concen: 0.029 ng
RT: 15.375 min Scan# 2091
Delta R.T. -0.005 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion:149 Resp: 293
Ion Ratio Lower Upper
149 100
177 0.0 17.0 25.6#
150 0.0 10.0 15.0#

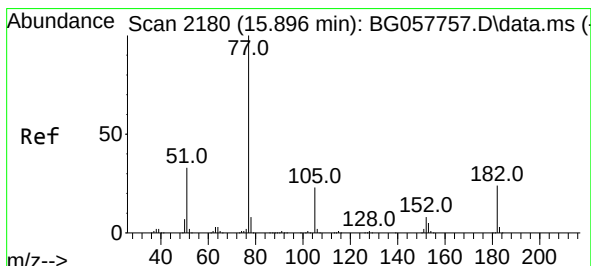
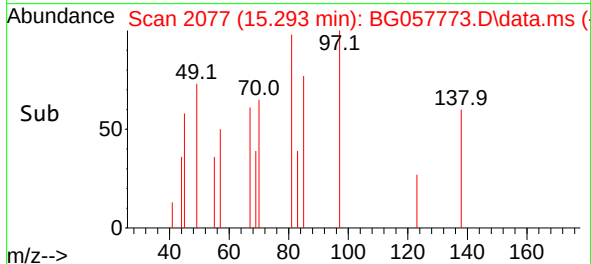
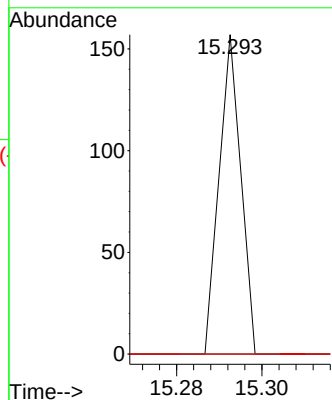
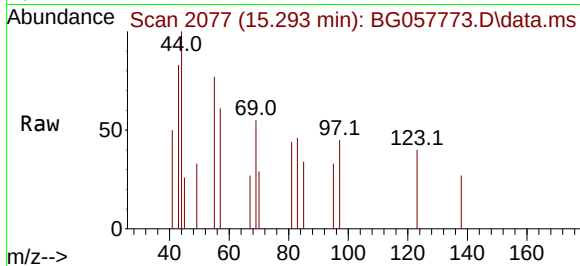




#62
4-Nitroaniline
Concen: 0.027 ng
RT: 15.293 min Scan# 20
Delta R.T. -0.339 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

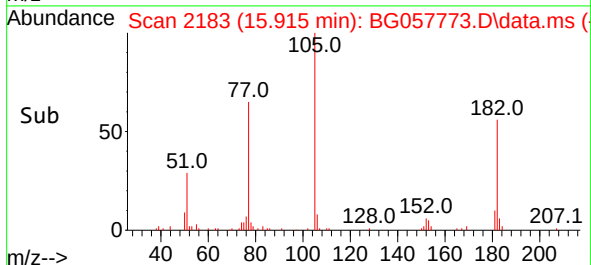
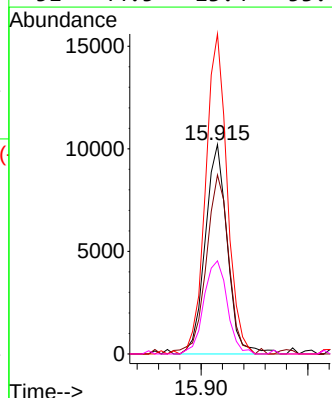
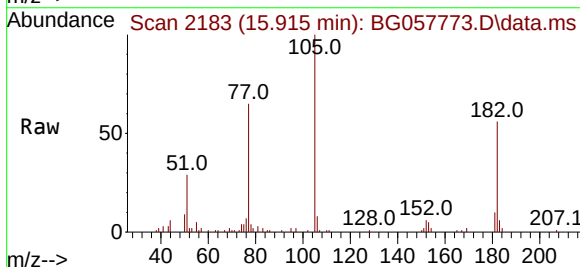
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

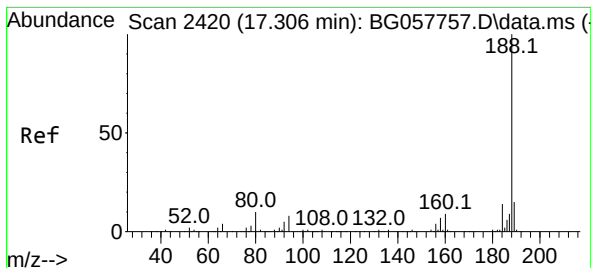
Tgt Ion:138 Resp: 55
Ion Ratio Lower Upper
138 100
92 0.0 35.9 75.9#
108 0.0 62.1 102.1#



#63
Azobenzene
Concen: 1.444 ng
RT: 15.915 min Scan# 2183
Delta R.T. 0.019 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion: 77 Resp: 14747
Ion Ratio Lower Upper
77 100
182 85.5 4.1 44.1#
105 152.8 3.3 43.3#
51 44.5 13.4 53.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.302 min Scan# 24

Delta R.T. -0.005 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

Instrument :

BNA_G

ClientSampleId :

WS-SOIL3-0615

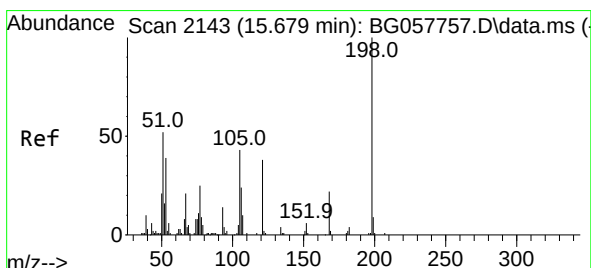
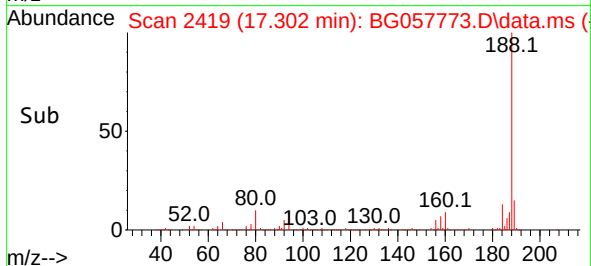
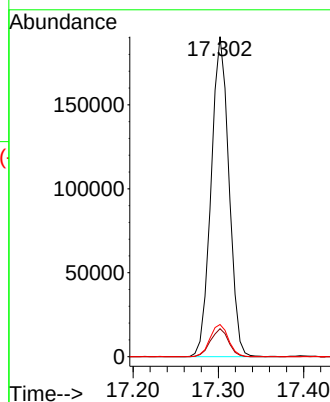
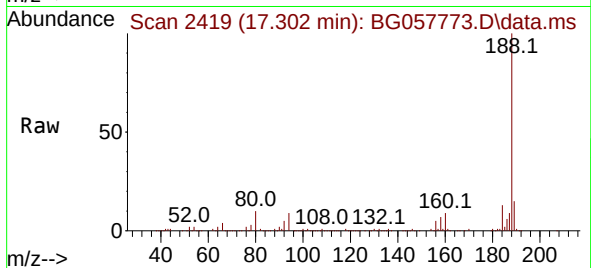
Tgt Ion:188 Resp: 277588

Ion Ratio Lower Upper

188 100

94 8.8 6.6 9.8

80 10.1 7.6 11.4



#65

4,6-Dinitro-2-methylphenol

Concen: 5.694 ng

RT: 16.039 min Scan# 2204

Delta R.T. 0.360 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

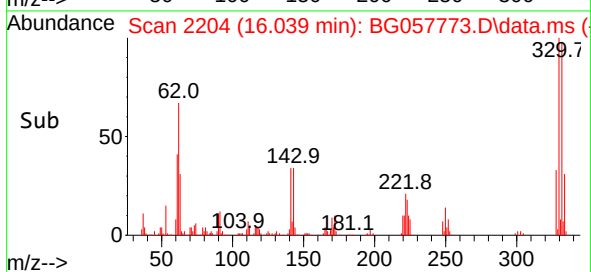
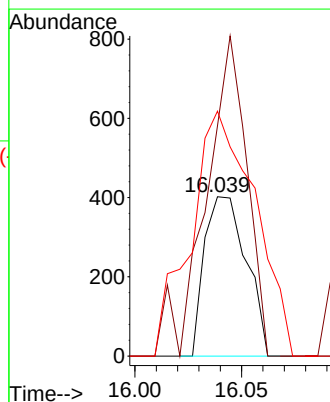
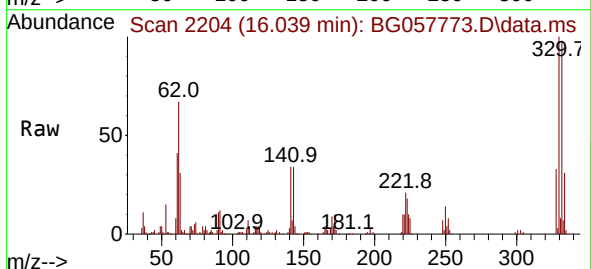
Tgt Ion:198 Resp: 548

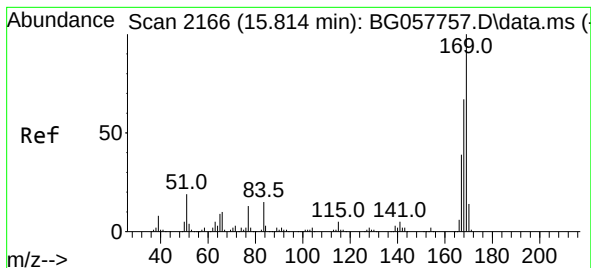
Ion Ratio Lower Upper

198 100

51 144.5 36.6 76.6#

105 153.7 24.3 64.3#





#66

n-Nitrosodiphenylamine

Concen: 0.028 ng

RT: 15.915 min Scan# 21

Delta R.T. 0.101 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

Instrument :

BNA_G

ClientSampleId :

WS-SOIL3-0615

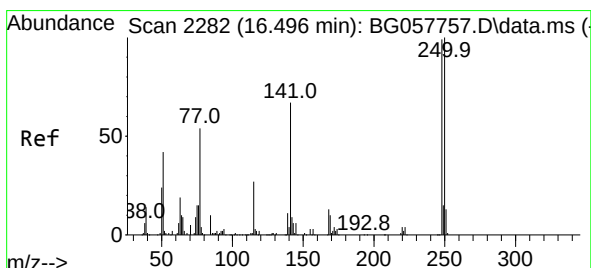
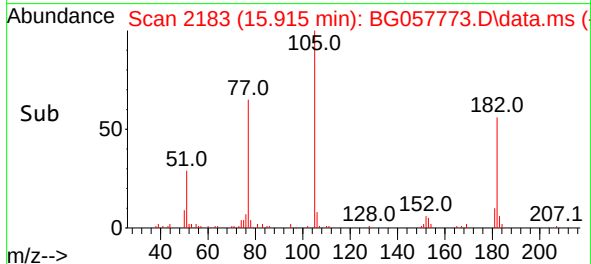
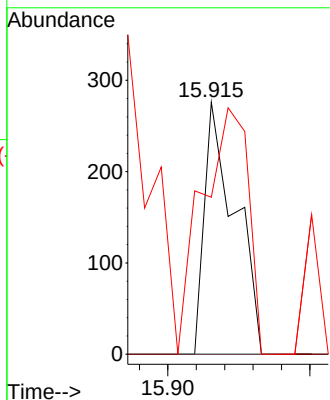
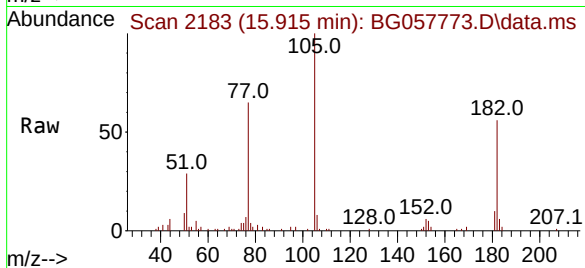
Tgt Ion:169 Resp: 207

Ion Ratio Lower Upper

169 100

168 0.0 53.4 80.2#

167 62.3 31.2 46.8#



#67

4-Bromophenyl-phenylether

Concen: 4.435 ng

RT: 16.045 min Scan# 2205

Delta R.T. -0.451 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

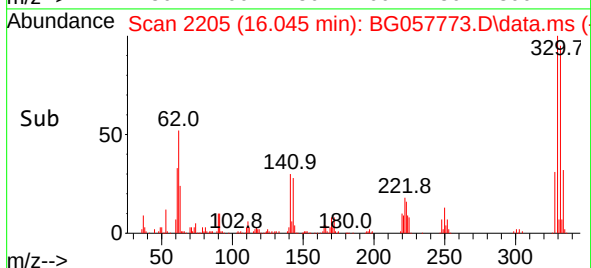
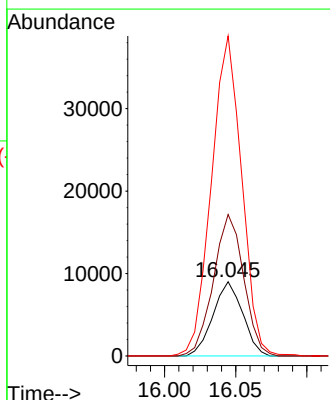
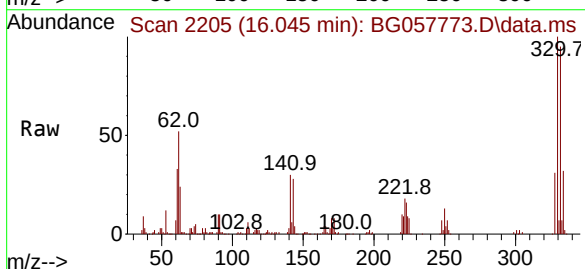
Tgt Ion:248 Resp: 13057

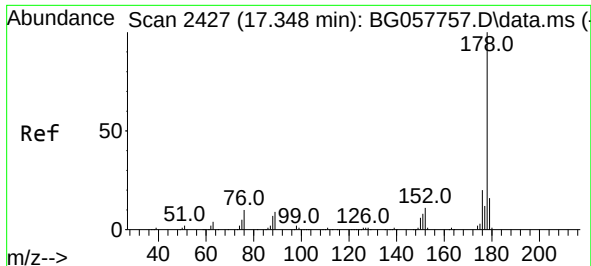
Ion Ratio Lower Upper

248 100

250 190.5 81.1 121.7#

141 430.9 54.6 81.8#

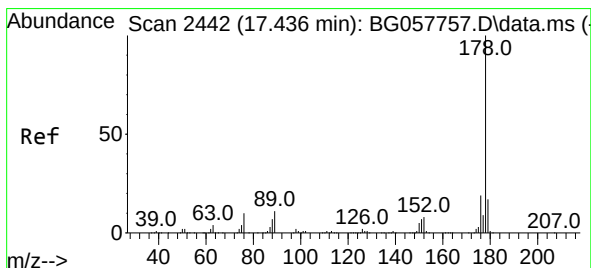
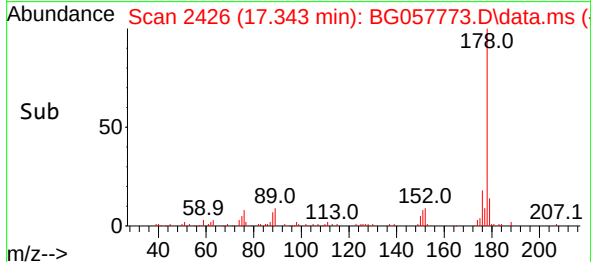
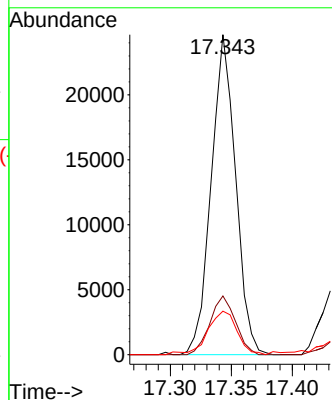
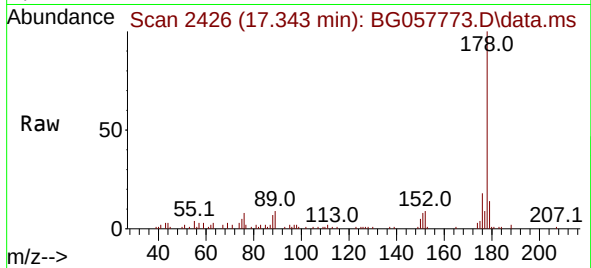




#71
Phenanthrene
Concen: 2.553 ng
RT: 17.343 min Scan# 2427
Delta R.T. -0.004 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

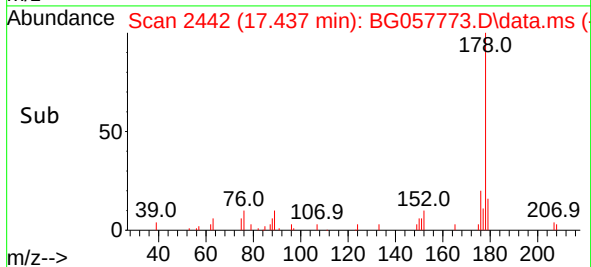
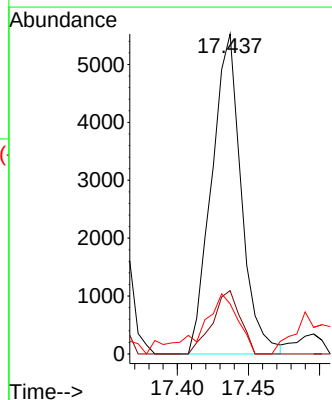
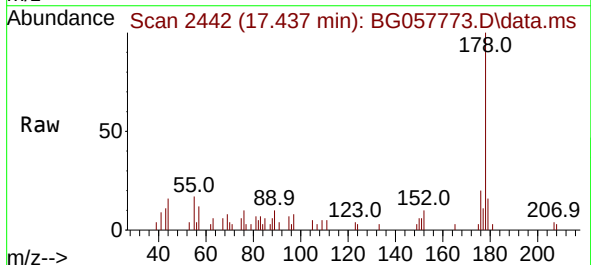
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

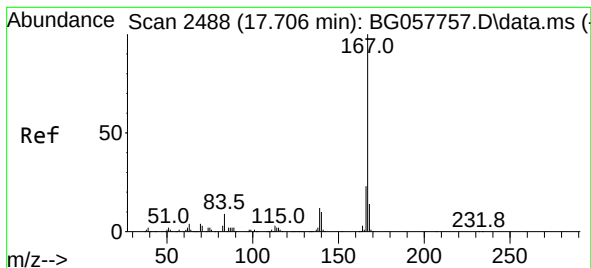
Tgt Ion:178 Resp: 34318
Ion Ratio Lower Upper
178 100
176 18.4 16.3 24.5
179 13.6 13.0 19.6



#72
Anthracene
Concen: 0.583 ng
RT: 17.437 min Scan# 2442
Delta R.T. 0.001 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion:178 Resp: 7998
Ion Ratio Lower Upper
178 100
176 19.8 15.4 23.0
179 15.6 13.3 19.9





#73

Carbazole

Concen: 0.090 ng

RT: 17.701 min Scan# 2487

Delta R.T. -0.005 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

Instrument :

BNA_G

ClientSampleId :

WS-SOIL3-0615

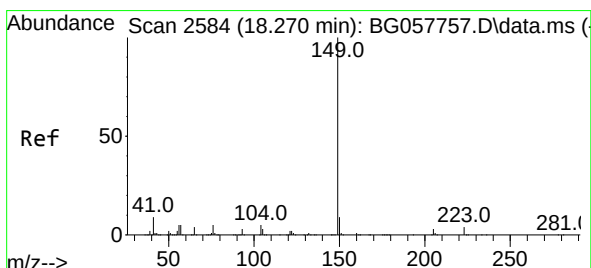
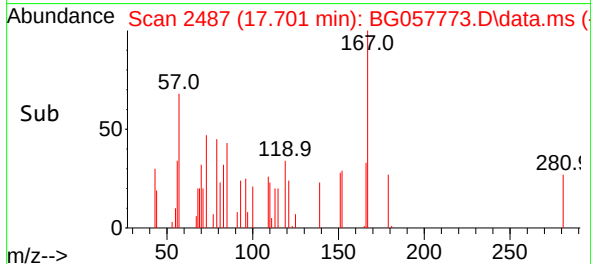
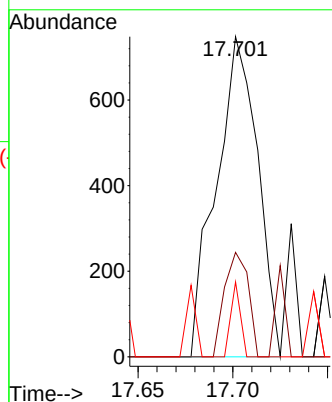
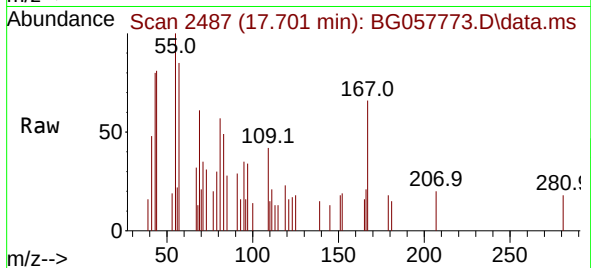
Tgt Ion:167 Resp: 1136

Ion Ratio Lower Upper

167 100

166 32.6 18.4 27.6#

139 23.4 9.9 14.9#



#74

Di-n-butylphthalate

Concen: 0.161 ng

RT: 18.265 min Scan# 2583

Delta R.T. -0.004 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

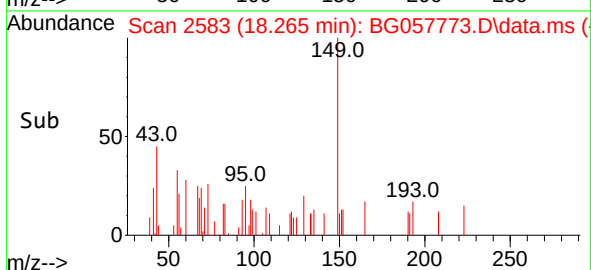
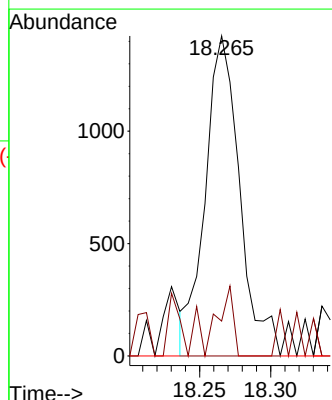
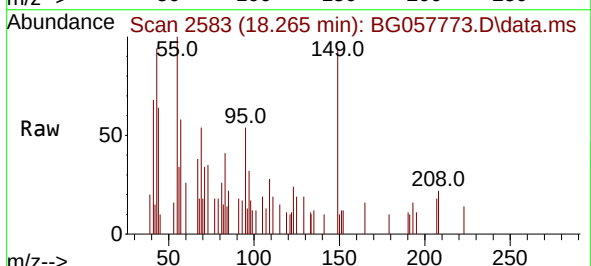
Tgt Ion:149 Resp: 2411

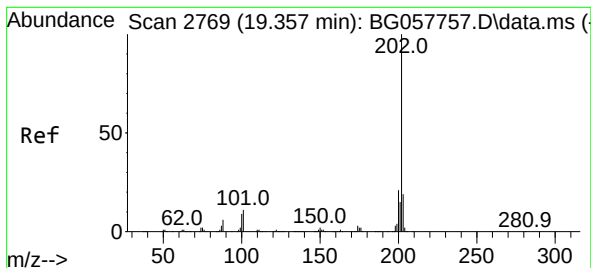
Ion Ratio Lower Upper

149 100

150 10.9 7.5 11.3

104 0.0 4.1 6.1#





#75

Fluoranthene

Concen: 4.473 ng

RT: 19.352 min Scan# 21

Delta R.T. -0.005 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

Instrument :

BNA_G

ClientSampleId :

WS-SOIL3-0615

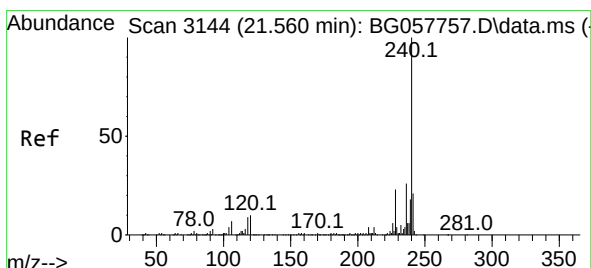
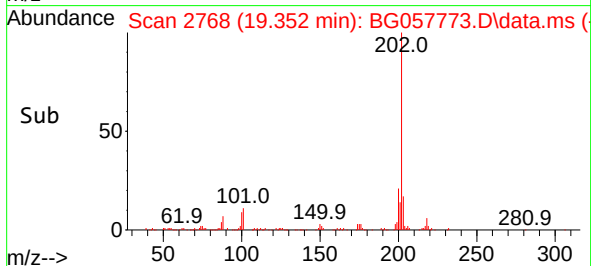
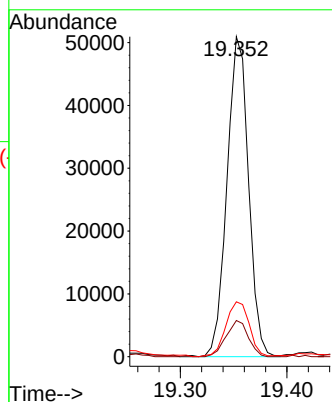
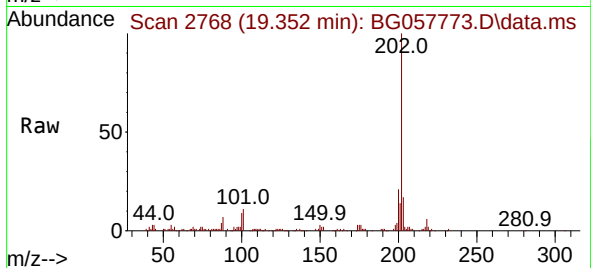
Tgt Ion:202 Resp: 71623

Ion Ratio Lower Upper

202 100

101 11.3 0.0 31.3

203 17.2 0.0 38.7



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.556 min Scan# 3143

Delta R.T. -0.005 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

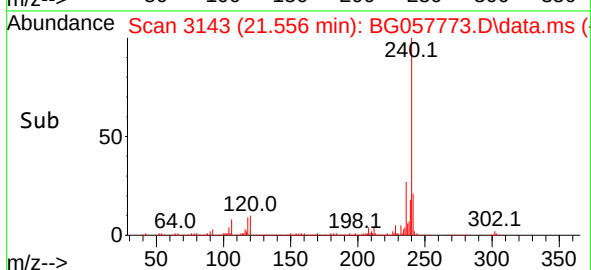
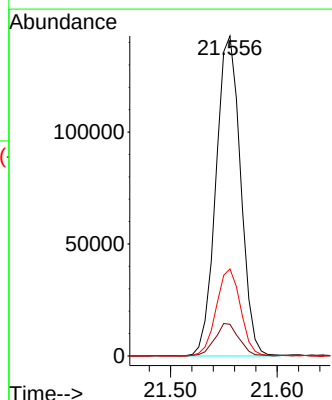
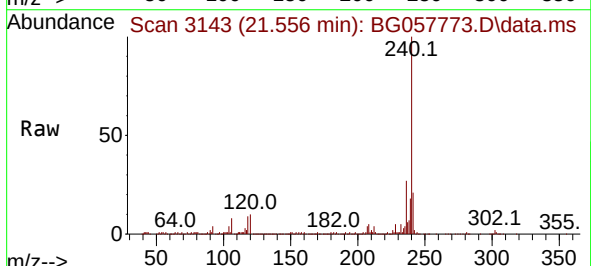
Tgt Ion:240 Resp: 229142

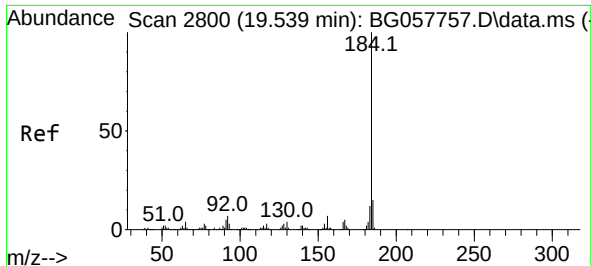
Ion Ratio Lower Upper

240 100

120 9.9 8.1 12.1

236 27.2 20.6 30.8

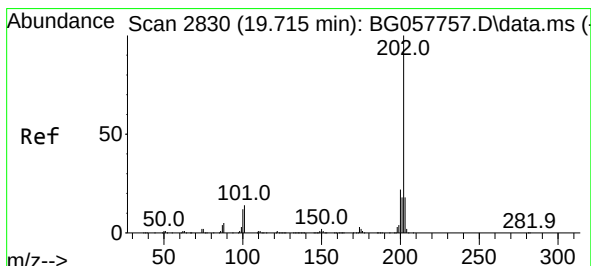
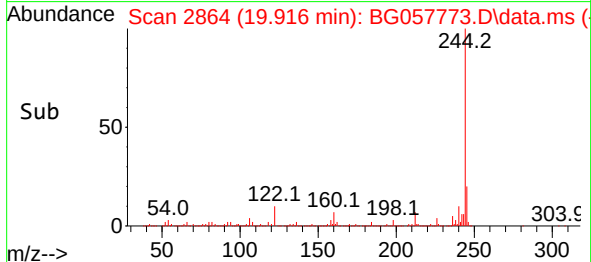
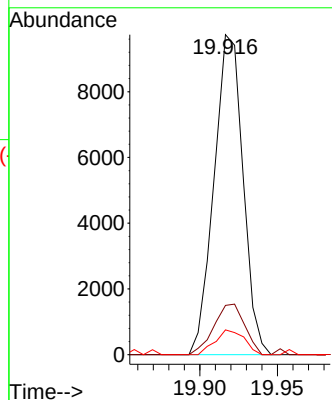
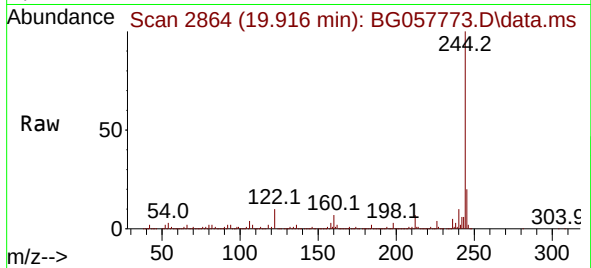




#77
Benzidine
Concen: 2.353 ng
RT: 19.916 min Scan# 2864
Delta R.T. 0.377 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

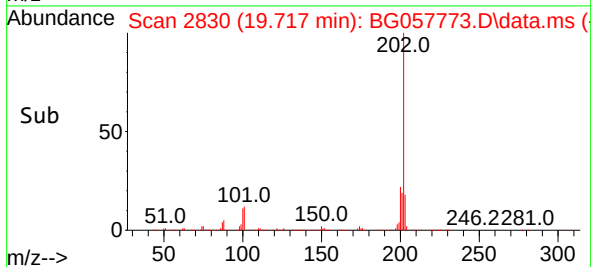
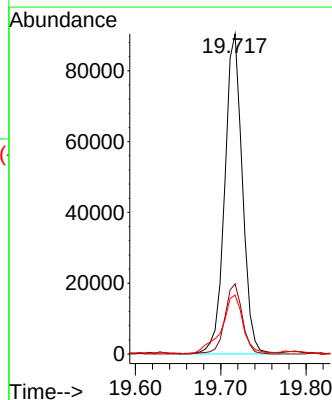
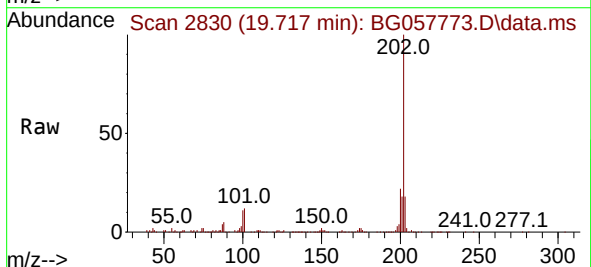
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

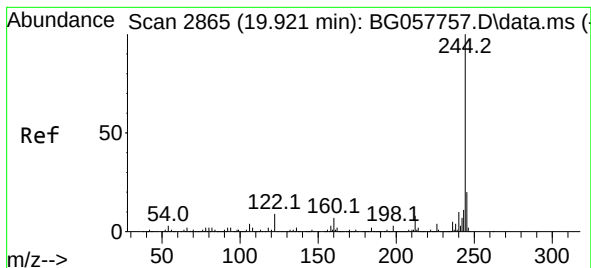
Tgt Ion:184 Resp: 12637
Ion Ratio Lower Upper
184 100
185 15.4 12.0 18.0
183 7.8 9.4 14.0#



#78
Pyrene
Concen: 7.983 ng
RT: 19.717 min Scan# 2830
Delta R.T. 0.001 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion:202 Resp: 130495
Ion Ratio Lower Upper
202 100
200 21.9 17.4 26.0
203 18.4 14.6 22.0





#79

Terphenyl-d14

Concen: 70.684 ng

RT: 19.922 min Scan# 2

Delta R.T. 0.001 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

Instrument :

BNA_G

ClientSampleId :

WS-SOIL3-0615

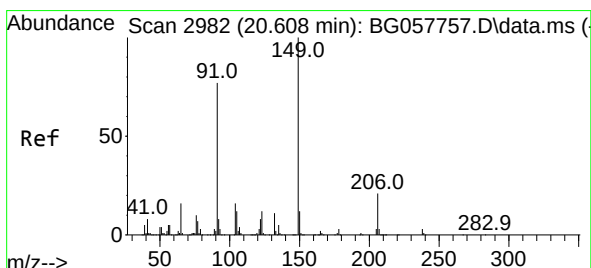
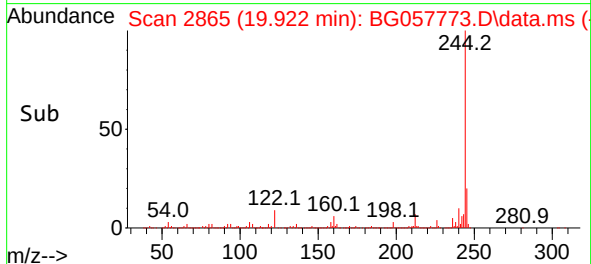
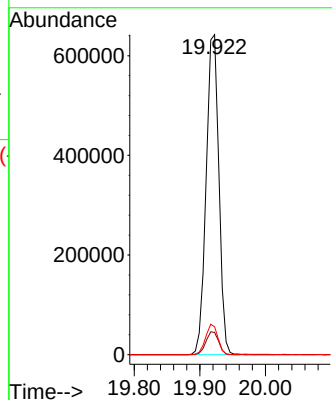
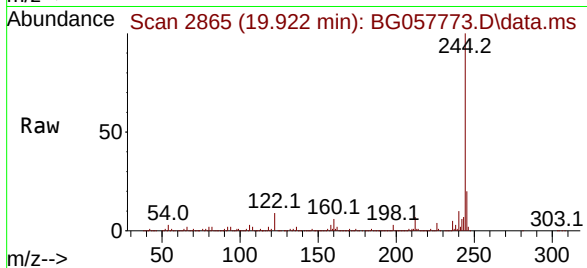
Tgt Ion:244 Resp: 868611

Ion Ratio Lower Upper

244 100

212 7.0 6.1 9.1

122 8.7 7.6 11.4



#80

Butylbenzylphthalate

Concen: 0.138 ng

RT: 20.610 min Scan# 2982

Delta R.T. 0.001 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

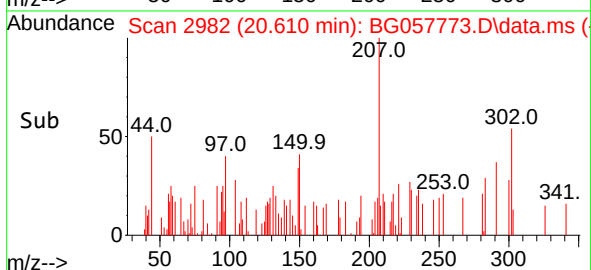
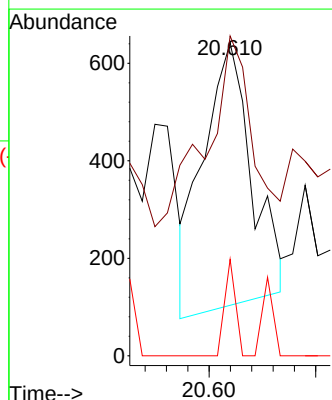
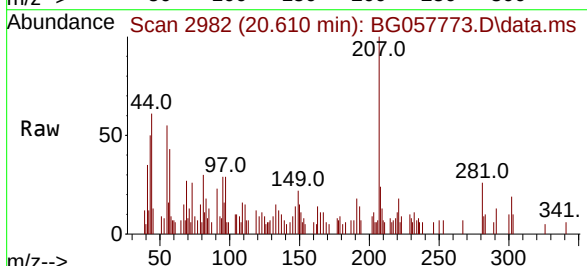
Tgt Ion:149 Resp: 859

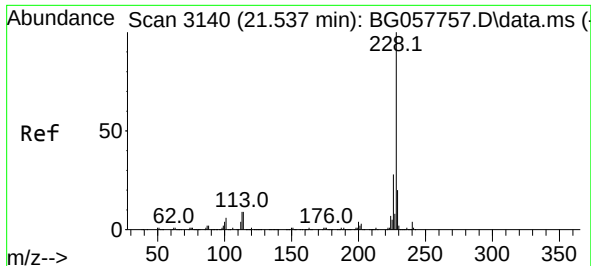
Ion Ratio Lower Upper

149 100

91 102.2 61.7 92.5#

206 30.8 16.6 24.8#

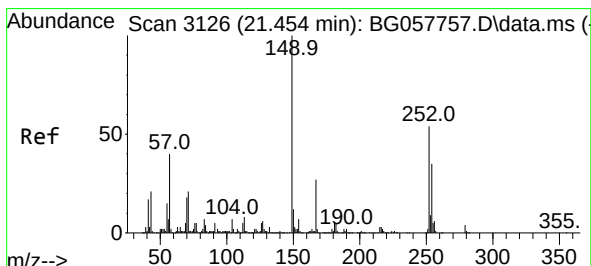
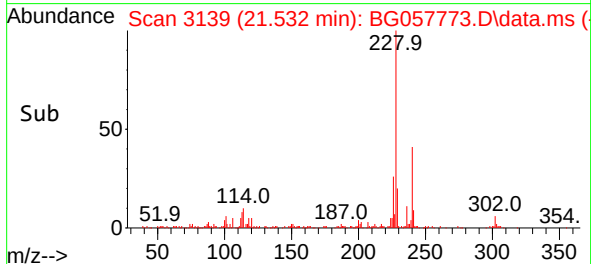
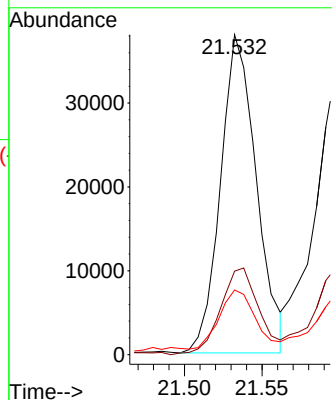
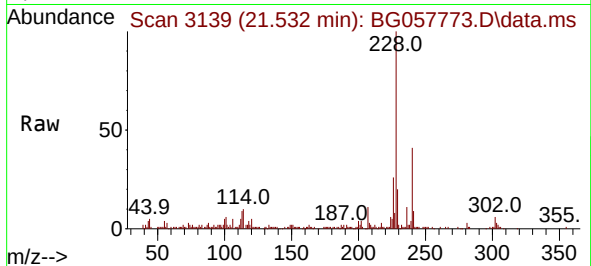




#81
Benzo(a)anthracene
Concen: 3.887 ng
RT: 21.532 min Scan# 31
Delta R.T. -0.005 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

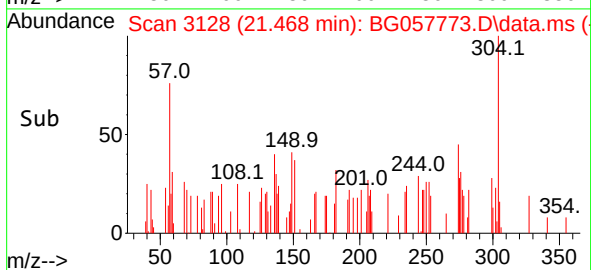
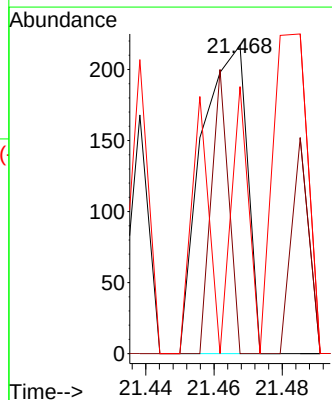
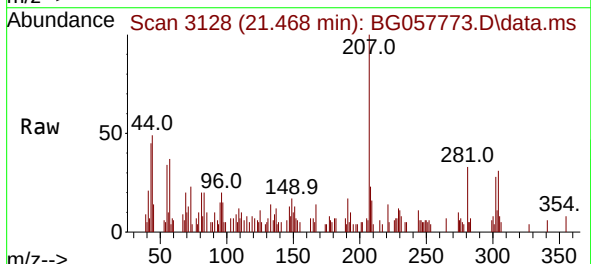
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

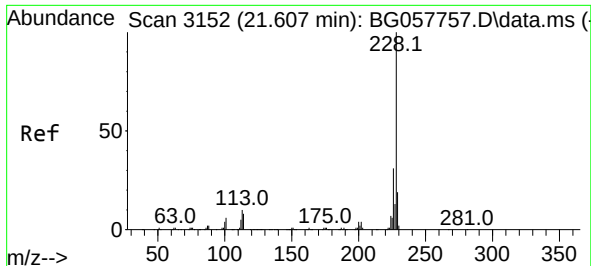
Tgt Ion:228 Resp: 61115
Ion Ratio Lower Upper
228 100
226 26.1 22.3 33.5
229 20.2 16.3 24.5



#82
3,3'-Dichlorobenzidine
Concen: 0.037 ng
RT: 21.468 min Scan# 3128
Delta R.T. 0.013 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion:252 Resp: 200
Ion Ratio Lower Upper
252 100
254 0.0 51.0 76.6#
126 86.6 7.0 10.6#





#83

Chrysene

Concen: 3.930 ng

RT: 21.597 min Scan# 3150

Delta R.T. -0.010 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

Instrument :

BNA_G

ClientSampleId :

WS-SOIL3-0615

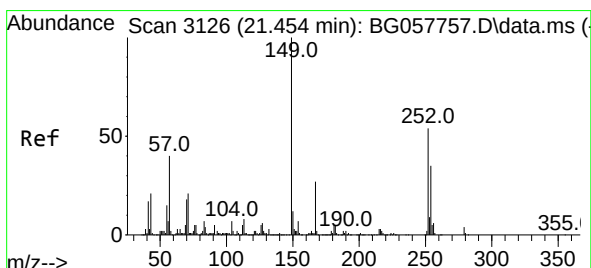
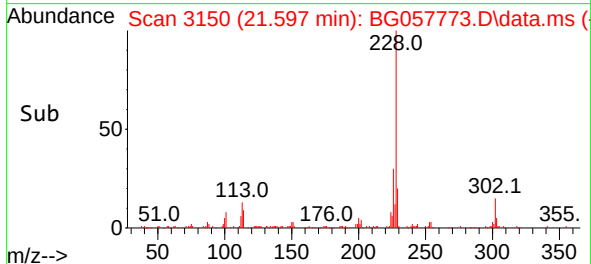
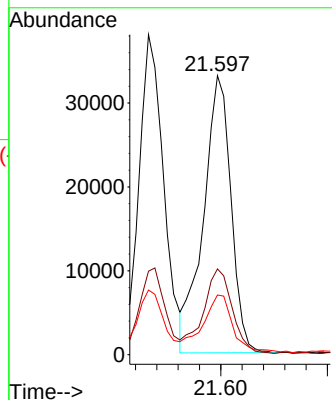
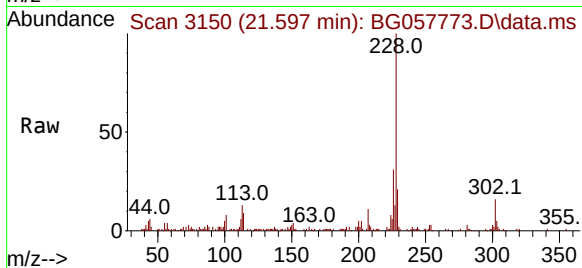
Tgt Ion:228 Resp: 59293

Ion Ratio Lower Upper

228 100

226 30.8 24.8 37.2

229 21.4 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 0.311 ng

RT: 21.450 min Scan# 3125

Delta R.T. -0.004 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

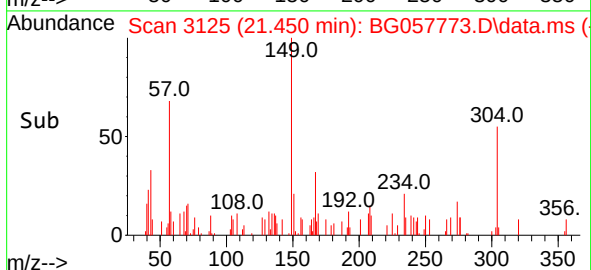
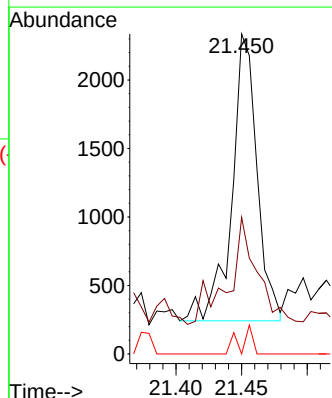
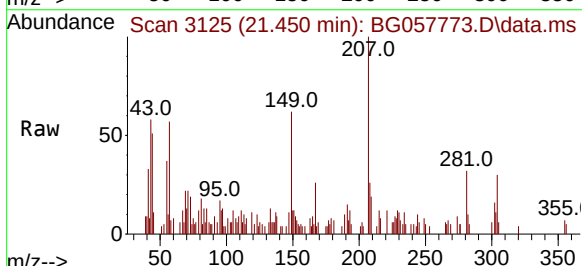
Tgt Ion:149 Resp: 2808

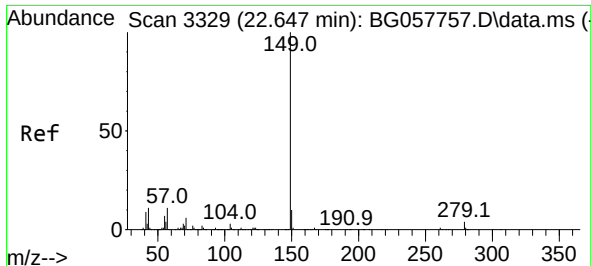
Ion Ratio Lower Upper

149 100

167 42.7 21.8 32.8#

279 0.0 2.9 4.3#

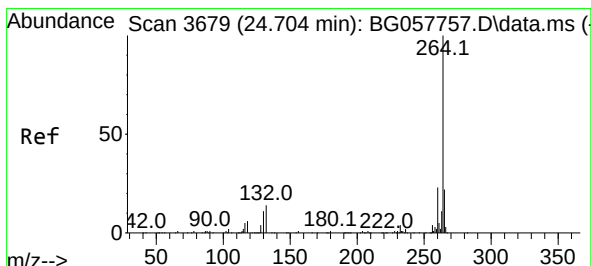
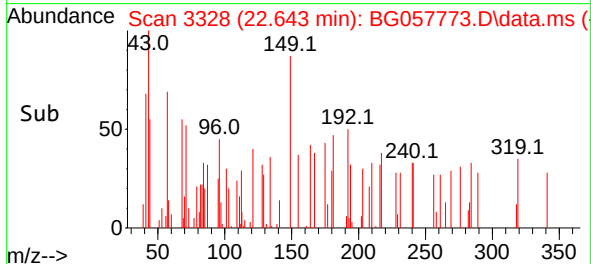
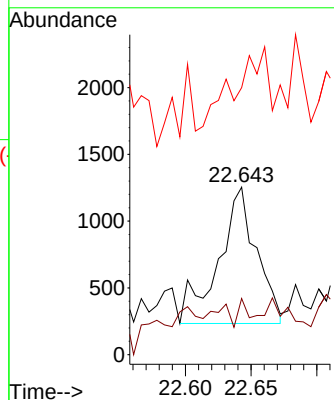
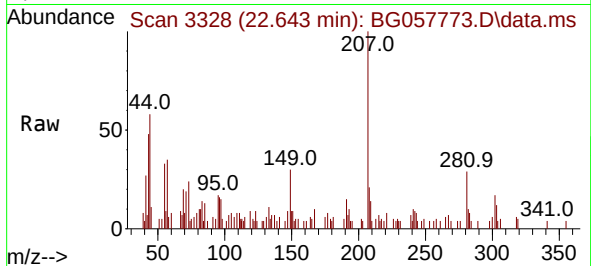




#85
Di-n-octyl phthalate
Concen: 0.129 ng
RT: 22.643 min Scan# 31
Delta R.T. -0.005 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

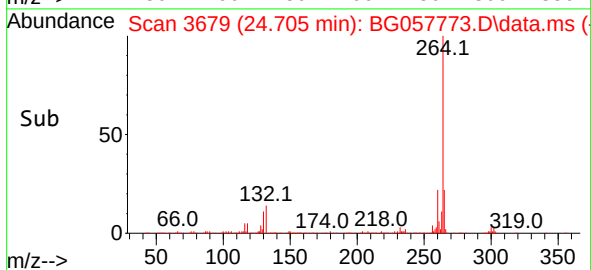
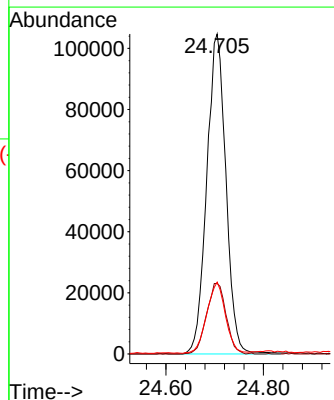
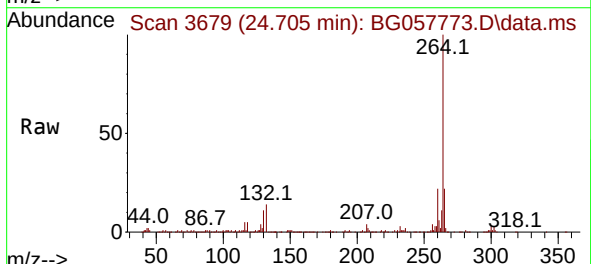
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

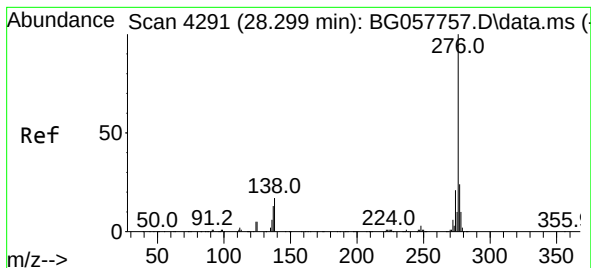
Tgt Ion:149 Resp: 2048
Ion Ratio Lower Upper
149 100
167 15.1 1.2 1.8#
43 0.0 9.6 14.4#



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.705 min Scan# 3679
Delta R.T. 0.001 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion:264 Resp: 284997
Ion Ratio Lower Upper
264 100
260 22.1 18.5 27.7
265 22.4 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 1.428 ng

RT: 28.271 min Scan# 4291

Delta R.T. -0.028 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

Instrument :

BNA_G

ClientSampleId :

WS-SOIL3-0615

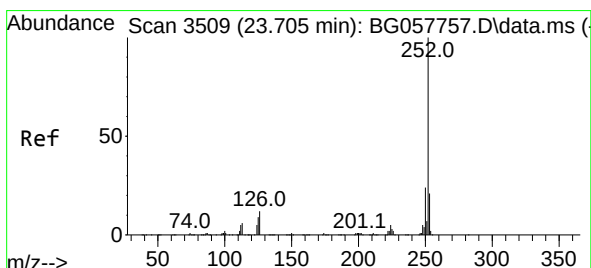
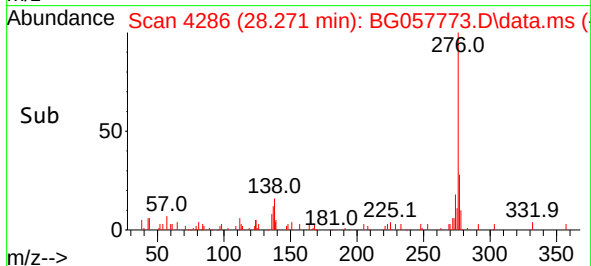
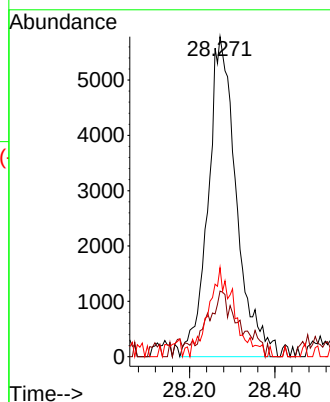
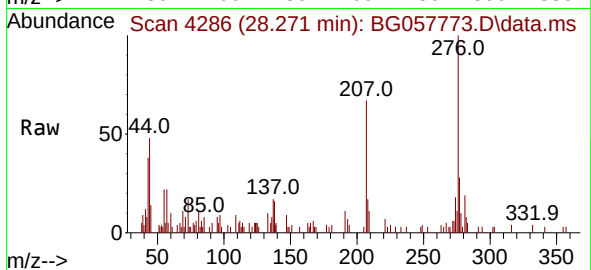
Tgt Ion:276 Resp: 26601

Ion Ratio Lower Upper

276 100

138 14.6 11.3 16.9

277 25.8 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 3.261 ng

RT: 23.706 min Scan# 3509

Delta R.T. 0.001 min

Lab File: BG057773.D

Acq: 20 Jun 2023 12:47

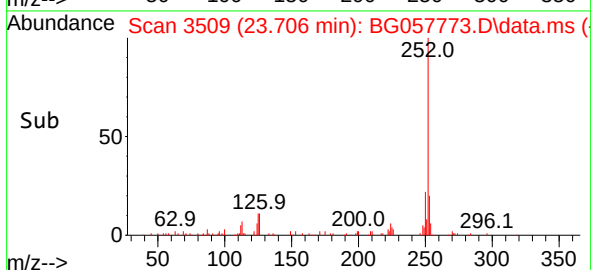
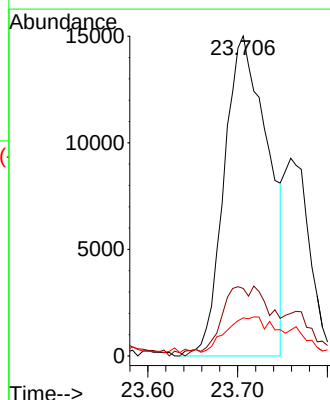
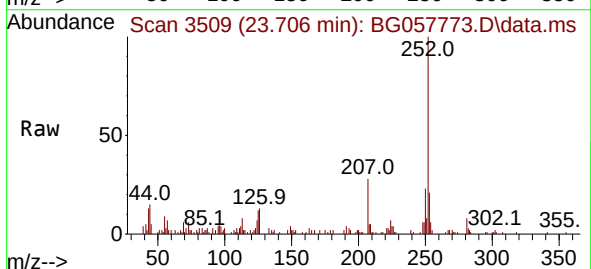
Tgt Ion:252 Resp: 50925

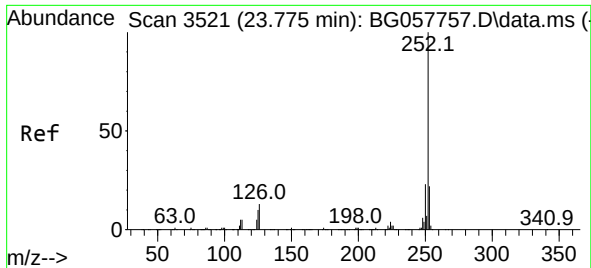
Ion Ratio Lower Upper

252 100

253 21.1 17.1 25.7

125 11.9 7.4 11.0#

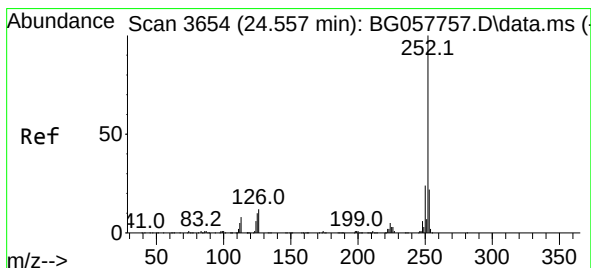
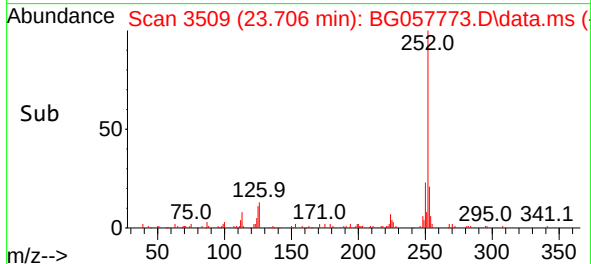
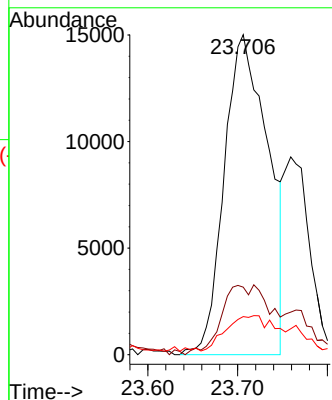
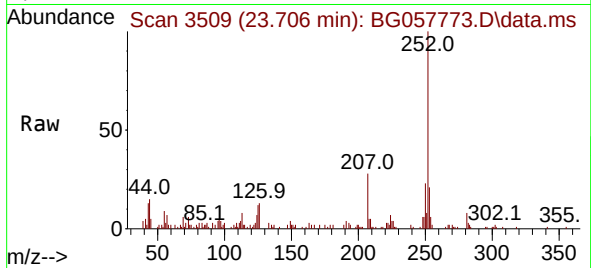




#89
Benzo(k)fluoranthene
Concen: 3.202 ng
RT: 23.706 min Scan# 3509
Delta R.T. -0.069 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

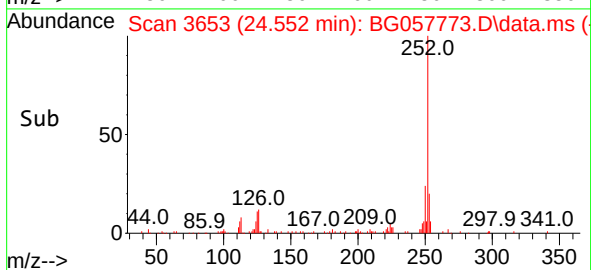
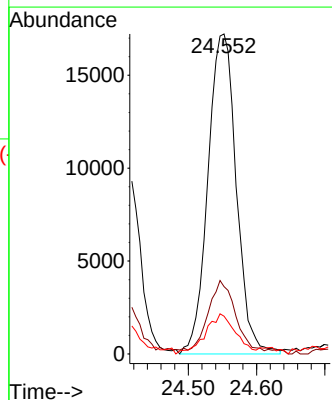
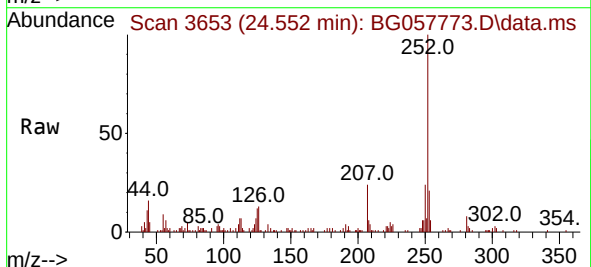
Instrument :
BNA_G
ClientSampleId :
WS-SOIL3-0615

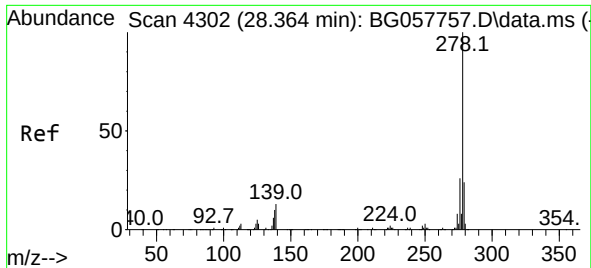
Tgt Ion:252 Resp: 50925
Ion Ratio Lower Upper
252 100
253 21.1 18.0 27.0
125 11.9 7.6 11.4#



#90
Benzo(a)pyrene
Concen: 3.254 ng
RT: 24.552 min Scan# 3653
Delta R.T. -0.004 min
Lab File: BG057773.D
Acq: 20 Jun 2023 12:47

Tgt Ion:252 Resp: 49906
Ion Ratio Lower Upper
252 100
253 21.1 17.4 26.2
125 11.8 8.0 12.0

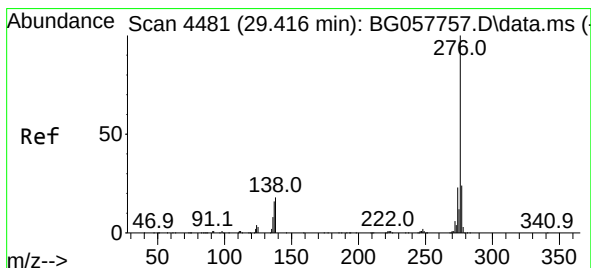
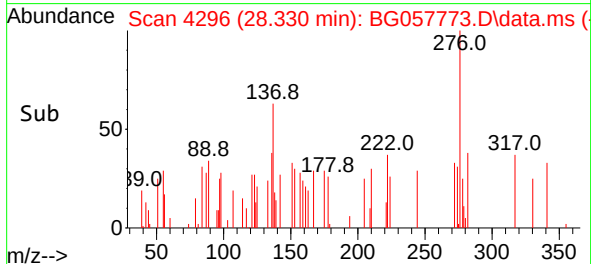
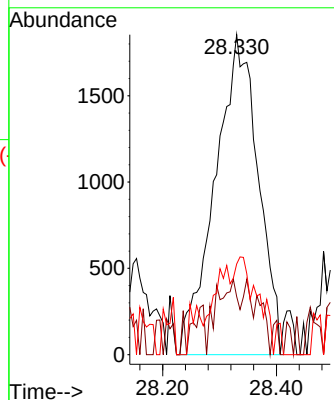
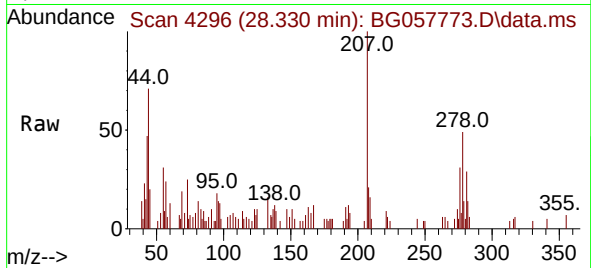




#91
 Dibenzo(a,h)anthracene
 Concen: 0.629 ng
 RT: 28.330 min Scan# 41
 Delta R.T. -0.034 min
 Lab File: BG057773.D
 Acq: 20 Jun 2023 12:47

Instrument :
 BNA_G
 ClientSampleId :
 WS-SOIL3-0615

Tgt Ion:278 Resp: 9717
 Ion Ratio Lower Upper
 278 100
 139 18.1 10.8 16.2#
 279 28.3 19.0 28.4



#92
 Benzo(g,h,i)perylene
 Concen: 1.721 ng
 RT: 29.400 min Scan# 4478
 Delta R.T. -0.016 min
 Lab File: BG057773.D
 Acq: 20 Jun 2023 12:47

Tgt Ion:276 Resp: 26638
 Ion Ratio Lower Upper
 276 100
 277 21.9 19.4 29.0
 138 18.8 14.2 21.4

