

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090722\
 Data File : BG054868.D
 Acq On : 7 Sep 2022 14:14
 Operator : CG/JU
 Sample : N4485-06DL2 10X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 AP-PIPE-2-SOILDL2

Quant Time: Sep 07 14:52:58 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 25 17:50:55 2022
 Response via : Initial Calibration

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

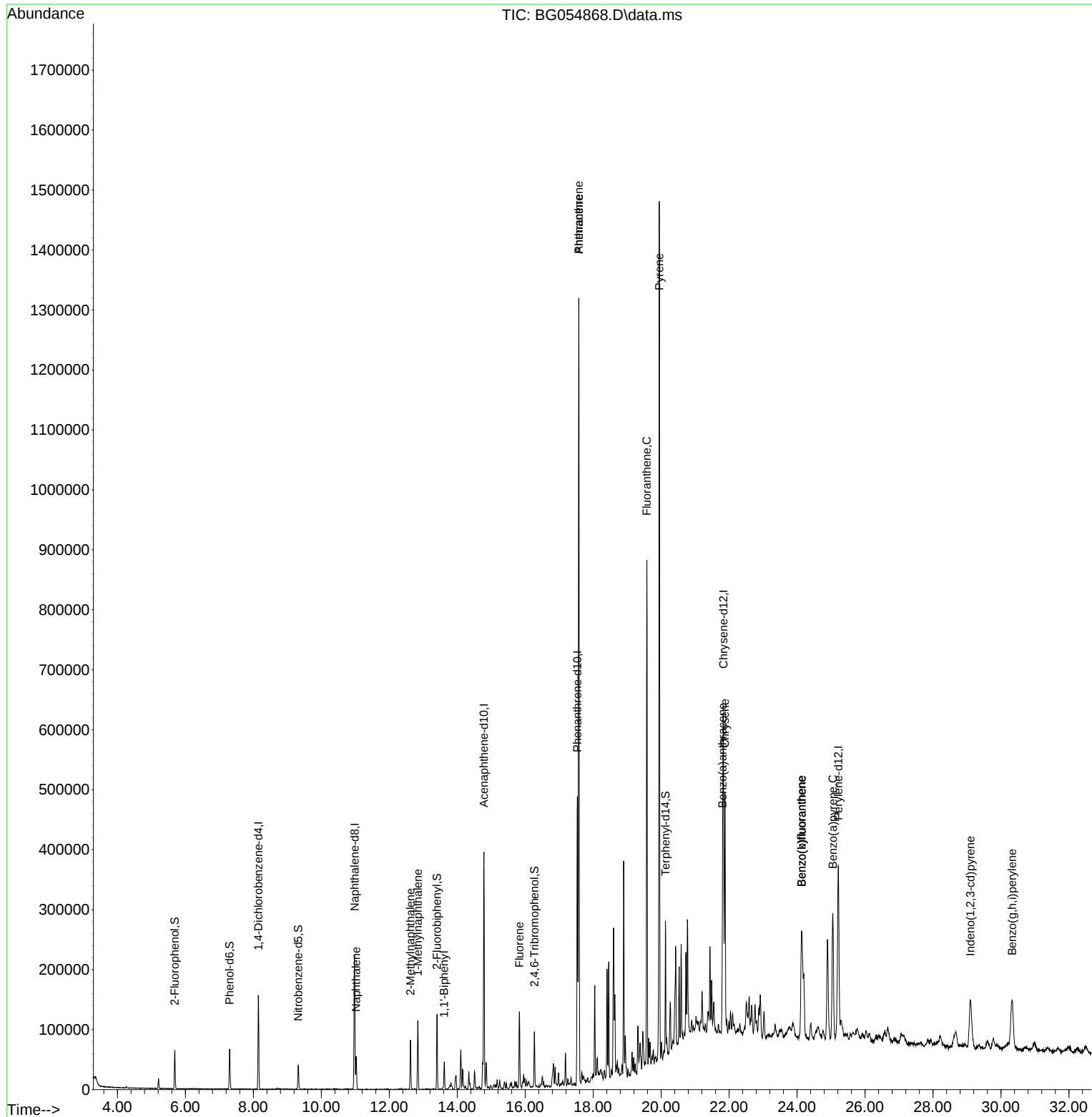
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.146	152	48715	20.000	ng	0.00
21) Naphthalene-d8	10.978	136	210409	20.000	ng	0.00
39) Acenaphthene-d10	14.786	164	146945	20.000	ng	0.00
64) Phenanthrene-d10	17.535	188	322635	20.000	ng	0.00
76) Chrysene-d12	21.830	240	298261	20.000	ng	0.00
86) Perylene-d12	25.215	264	318153	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.691	112	31295	11.187	ng	0.00
7) Phenol-d6	7.300	99	44663	11.674	ng	0.00
23) Nitrobenzene-d5	9.322	82	26335	6.571	ng	0.00
42) 2,4,6-Tribromophenol	16.272	330	20845	11.352	ng	0.00
45) 2-Fluorobiphenyl	13.405	172	69471	7.106	ng	0.00
79) Terphenyl-d14	20.127	244	107420	7.136	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	11.025	128	49829	4.414	ng	99
37) 2-Methylnaphthalene	12.624	142	41855	5.290	ng	100
38) 1-Methylnaphthalene	12.841	142	56826	7.382	ng	98
46) 1,1'-Biphenyl	13.617	154	26261	2.407	ng	98
58) Fluorene	15.832	166	62883	5.783	ng	99
71) Phenanthrene	17.577	178	862186	50.165	ng	99
72) Anthracene	17.577	178	862186	51.598	ng	98
75) Fluoranthene	19.580	202	521668	24.951	ng	98
78) Pyrene	19.944	202	929057	44.672	ng	98
81) Benzo(a)anthracene	21.807	228	183277	9.063	ng	98
83) Chrysene	21.877	228	269323	13.929	ng	99
87) Indeno(1,2,3-cd)pyrene	29.104	276	151292	6.264	ng	97
88) Benzo(b)fluoranthene	24.134	252	269196	13.488	ng	99
89) Benzo(k)fluoranthene	24.134	252	269196	13.402	ng	99
90) Benzo(a)pyrene	25.050	252	248545	14.576	ng	98
92) Benzo(g,h,i)perylene	30.326	276	181846	9.148	ng	97

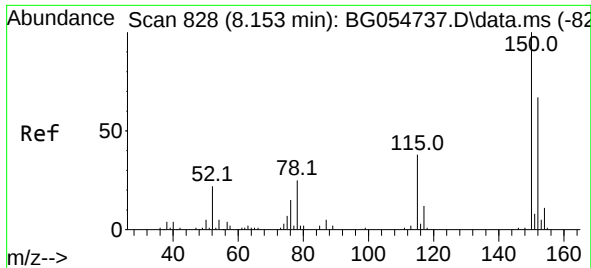
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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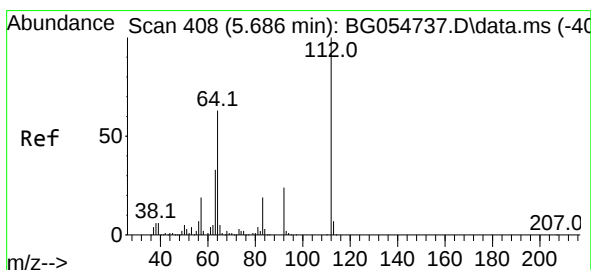
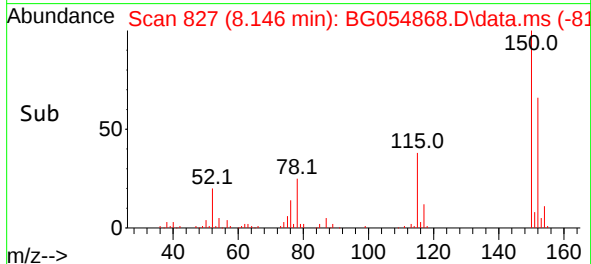
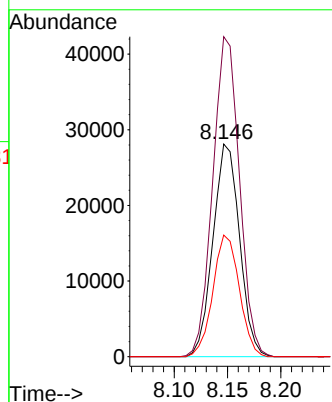
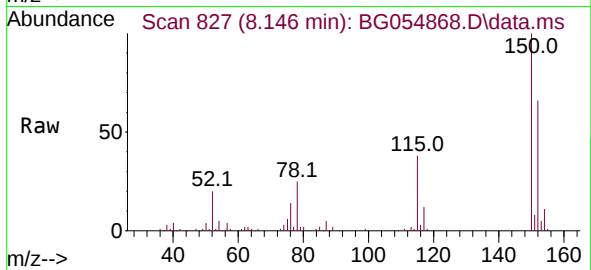




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.146 min Scan# 81
Delta R.T. -0.007 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

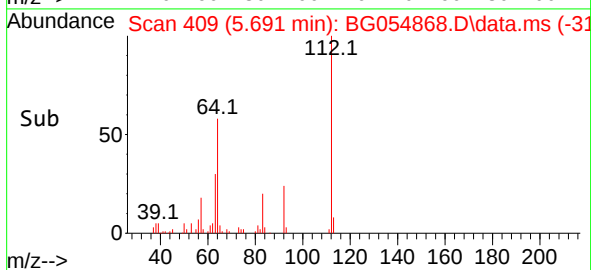
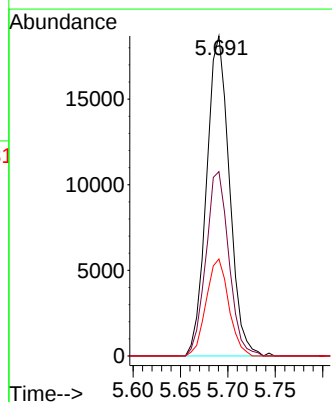
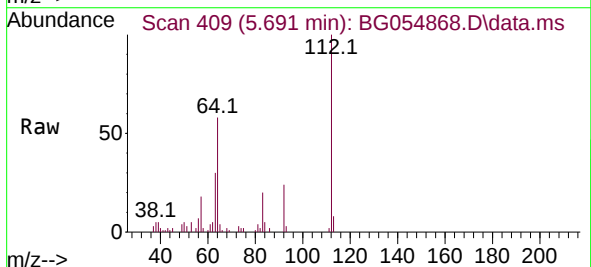
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILDL2

Tgt Ion:152 Resp: 48715
Ion Ratio Lower Upper
152 100
150 150.5 125.2 187.8
115 57.2 47.9 71.9



#5
2-Fluorophenol
Concen: 11.187 ng
RT: 5.691 min Scan# 409
Delta R.T. 0.005 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

Tgt Ion:112 Resp: 31295
Ion Ratio Lower Upper
112 100
64 57.6 49.3 73.9
63 30.3 26.3 39.5

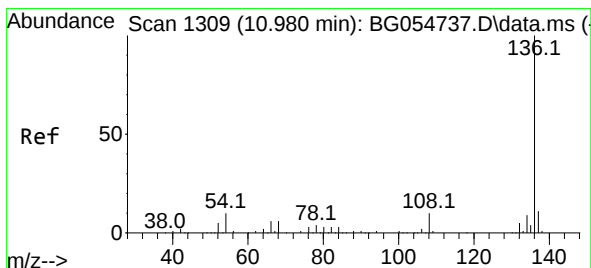
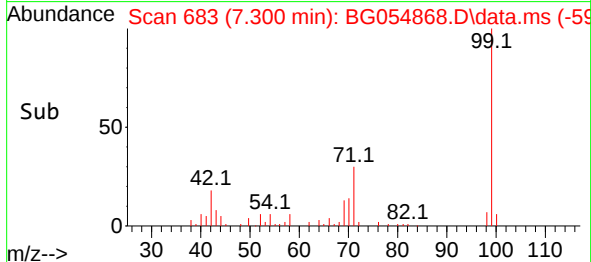
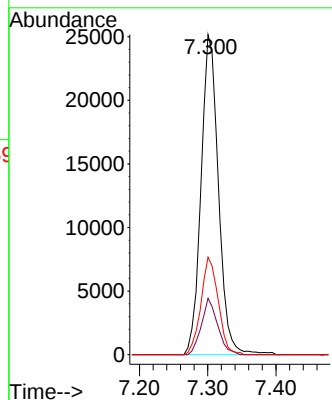
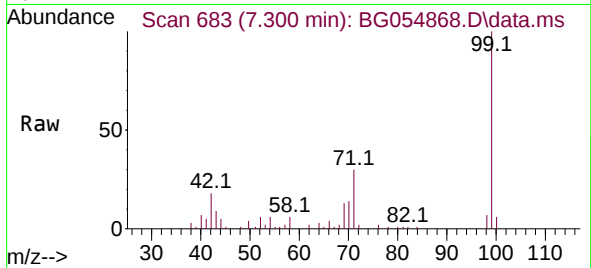




#7
Phenol-d6
Concen: 11.674 ng
RT: 7.300 min Scan# 61
Delta R.T. 0.005 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

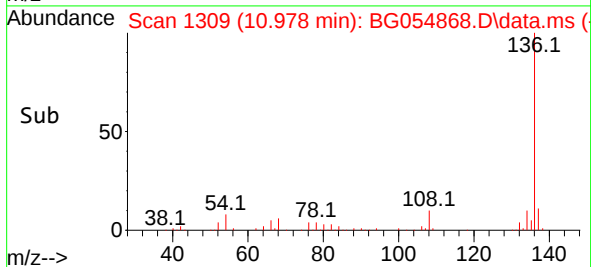
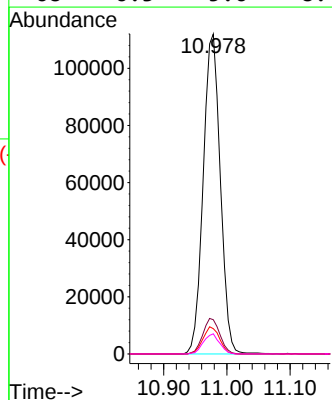
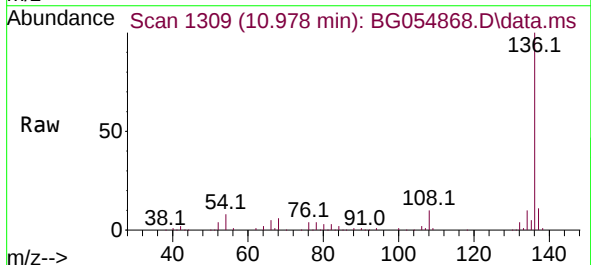
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILDL2

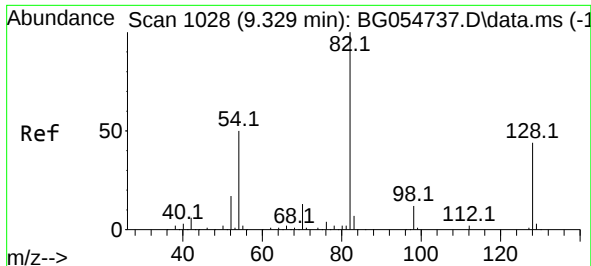
Tgt Ion: 99 Resp: 44663
Ion Ratio Lower Upper
99 100
42 17.6 14.6 22.0
71 30.5 24.6 37.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.978 min Scan# 1309
Delta R.T. -0.002 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

Tgt Ion: 136 Resp: 210409
Ion Ratio Lower Upper
136 100
137 10.7 9.2 13.8
54 7.9 7.7 11.5
68 6.3 5.6 8.4





#23

Nitrobenzene-d5

Concen: 6.571 ng

RT: 9.322 min Scan# 1028

Delta R.T. -0.007 min

Lab File: BG054868.D

Acq: 7 Sep 2022 14:14

Instrument :

BNA_G

ClientSampleId :

AP-PIPE-2-SOILDL2

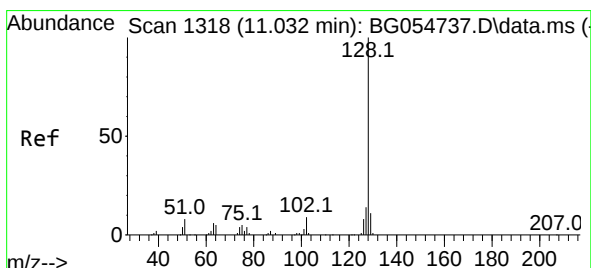
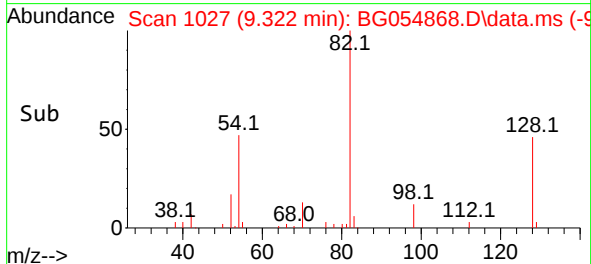
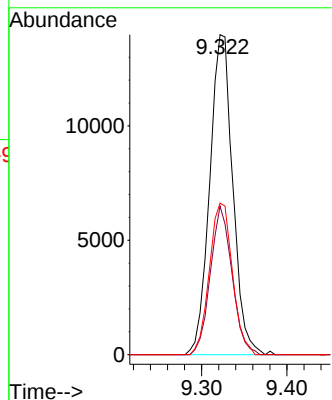
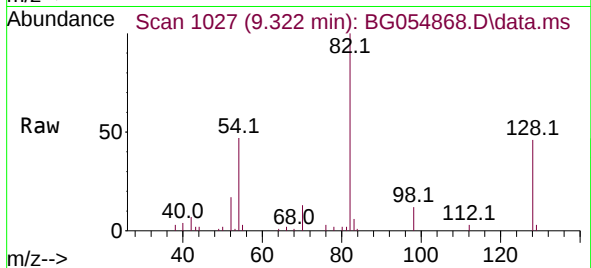
Tgt Ion: 82 Resp: 26335

Ion Ratio Lower Upper

82 100

128 46.4 32.2 48.2

54 47.4 41.4 62.0



#31

Naphthalene

Concen: 4.414 ng

RT: 11.025 min Scan# 1317

Delta R.T. -0.007 min

Lab File: BG054868.D

Acq: 7 Sep 2022 14:14

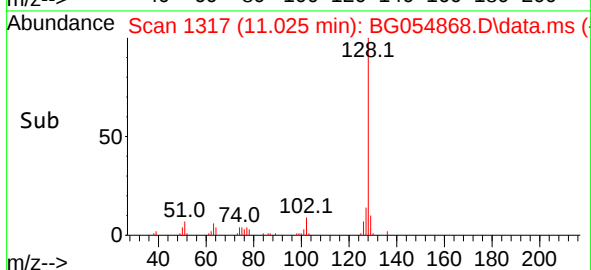
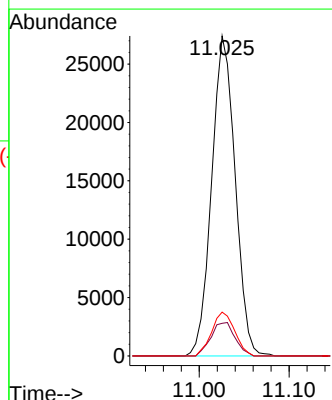
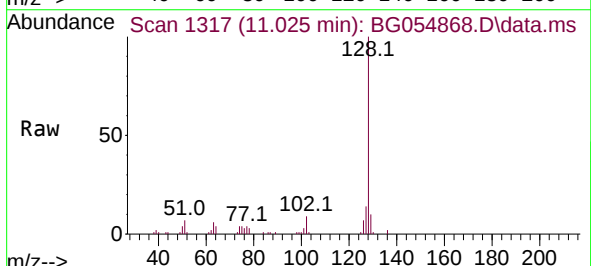
Tgt Ion:128 Resp: 49829

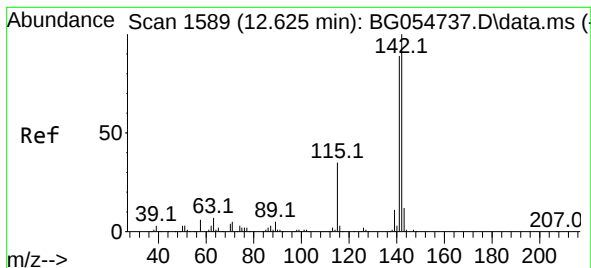
Ion Ratio Lower Upper

128 100

129 10.2 9.0 13.4

127 13.7 11.1 16.7

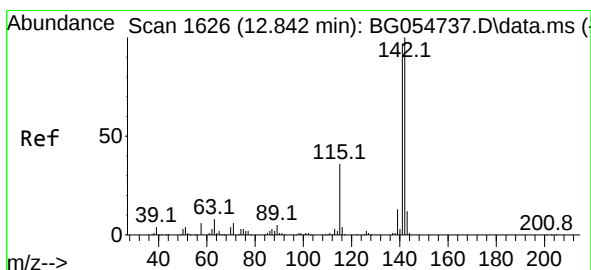
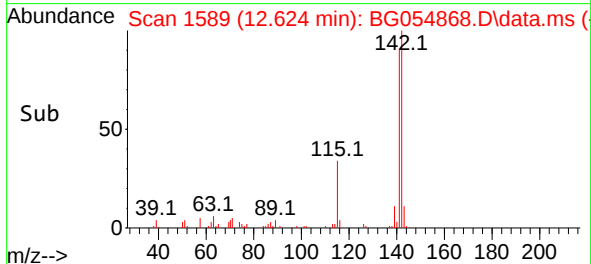
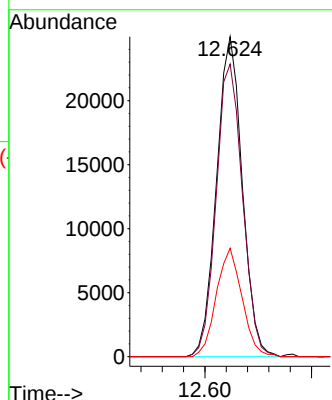
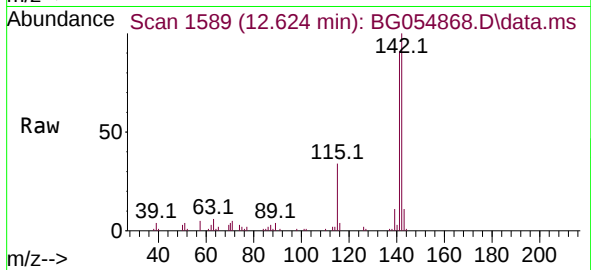




#37
2-Methylnaphthalene
Concen: 5.290 ng
RT: 12.624 min Scan# 11
Delta R.T. -0.001 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

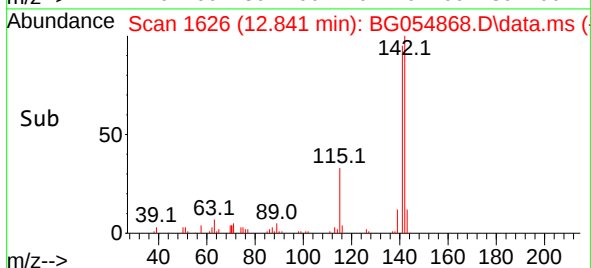
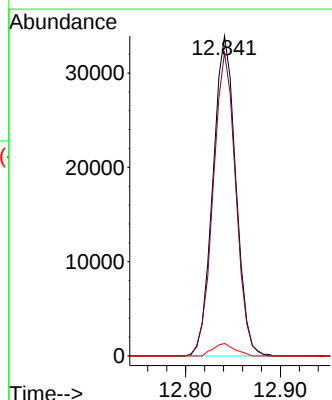
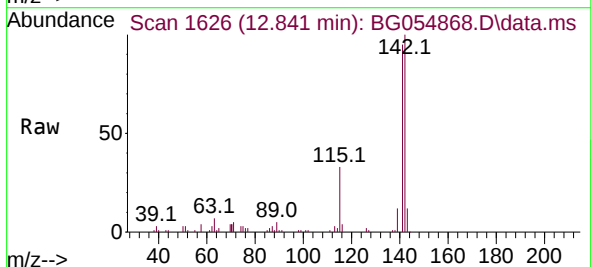
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILDL2

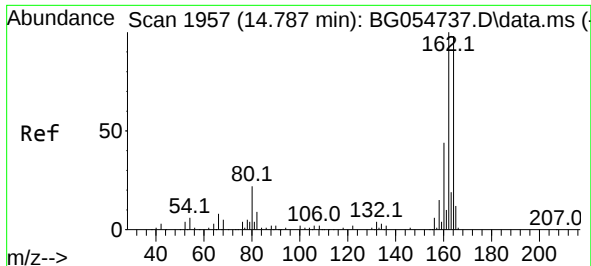
Tgt Ion:142 Resp: 41855
Ion Ratio Lower Upper
142 100
141 91.5 73.0 109.4
115 33.9 27.3 40.9



#38
1-Methylnaphthalene
Concen: 7.382 ng
RT: 12.841 min Scan# 1626
Delta R.T. -0.001 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

Tgt Ion:142 Resp: 56826
Ion Ratio Lower Upper
142 100
141 94.7 77.4 116.0
116 3.9 3.0 4.4

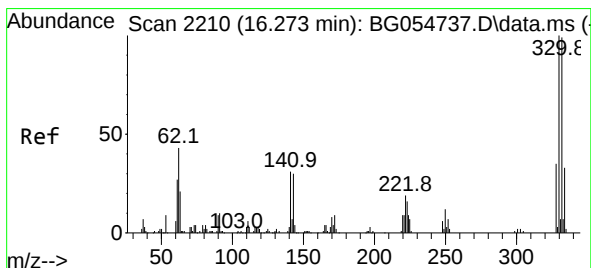
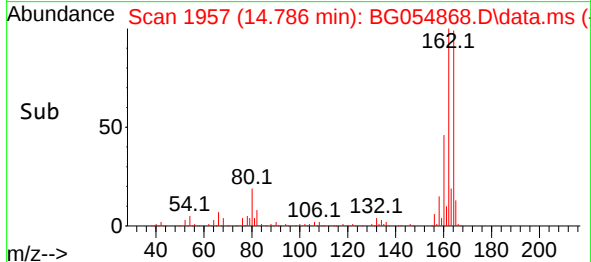
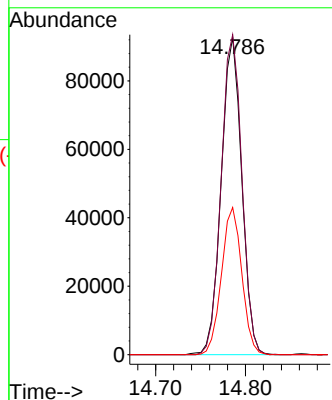
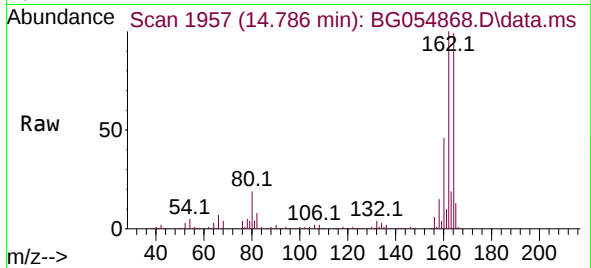




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.786 min Scan# 1957
Delta R.T. -0.001 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

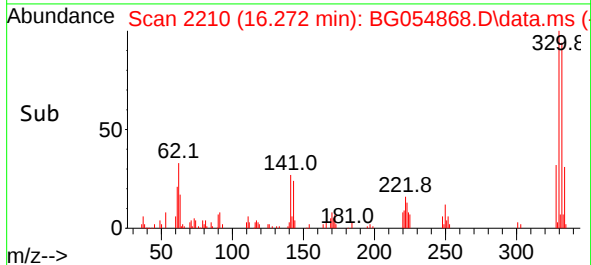
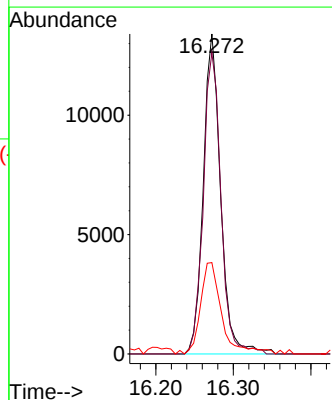
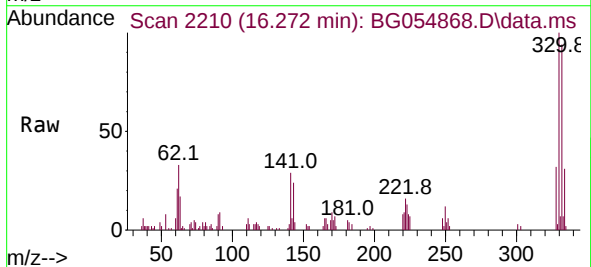
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILDL2

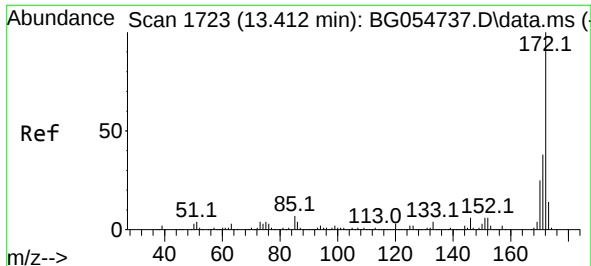
Tgt Ion:164 Resp: 146945
Ion Ratio Lower Upper
164 100
162 100.9 83.0 124.4
160 46.4 38.0 57.0



#42
2,4,6-Tribromophenol
Concen: 11.352 ng
RT: 16.272 min Scan# 2210
Delta R.T. -0.001 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

Tgt Ion:330 Resp: 20845
Ion Ratio Lower Upper
330 100
332 95.9 79.8 119.6
141 34.6 26.8 40.2

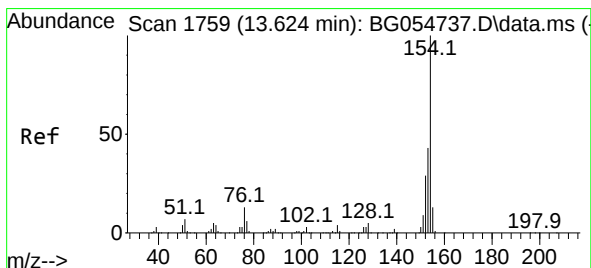
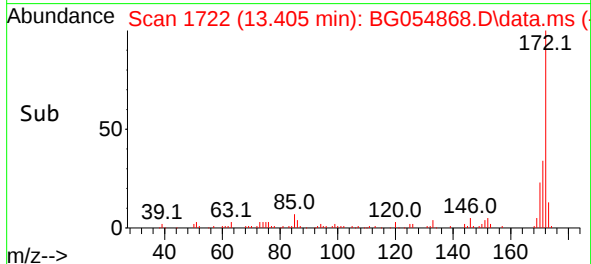
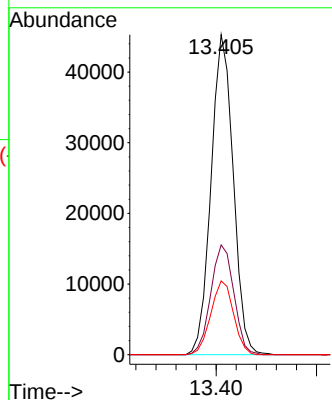
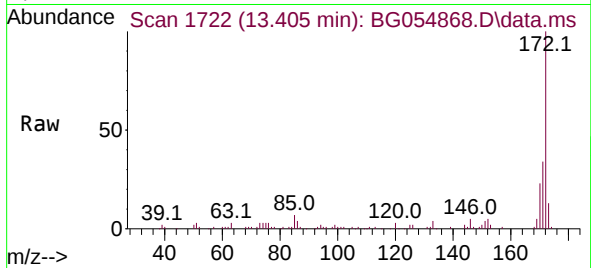




#45
2-Fluorobiphenyl
Concen: 7.106 ng
RT: 13.405 min Scan# 1722
Delta R.T. -0.007 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

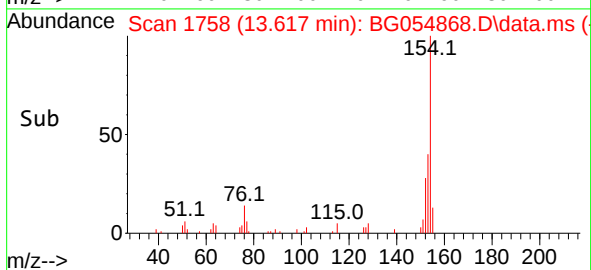
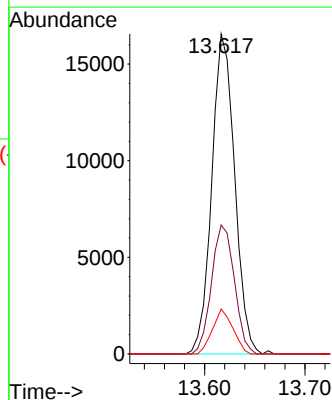
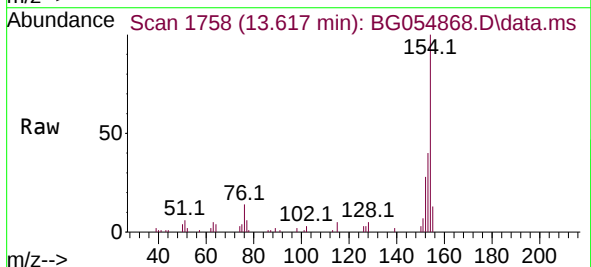
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ClientSampleId :
AP-PIPE-2-SOILDL2

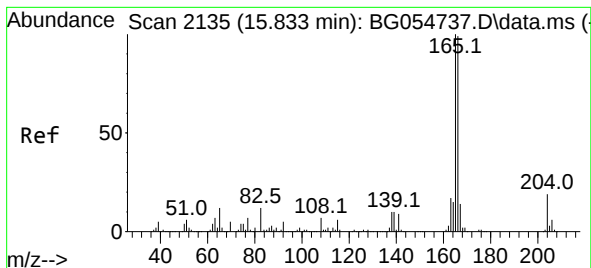
Tgt Ion:172 Resp: 69471
Ion Ratio Lower Upper
172 100
171 34.3 31.2 46.8
170 23.1 20.6 30.8



#46
1,1'-Biphenyl
Concen: 2.407 ng
RT: 13.617 min Scan# 1758
Delta R.T. -0.007 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

Tgt Ion:154 Resp: 26261
Ion Ratio Lower Upper
154 100
153 40.3 22.2 62.2
76 14.0 0.0 34.0





#58

Fluorene

Concen: 5.783 ng

RT: 15.832 min Scan# 2135

Delta R.T. -0.001 min

Lab File: BG054868.D

Acq: 7 Sep 2022 14:14

Instrument :

BNA_G

ClientSampleId :

AP-PIPE-2-SOILDL2

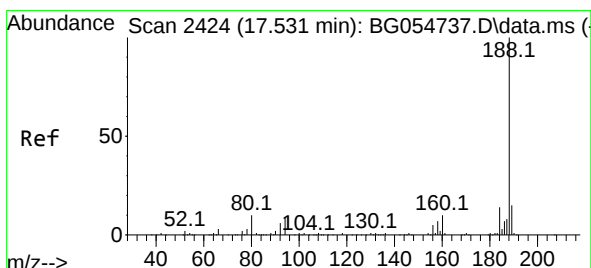
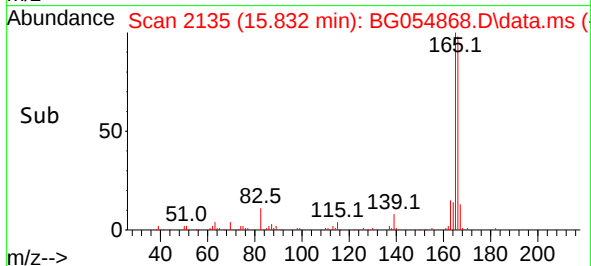
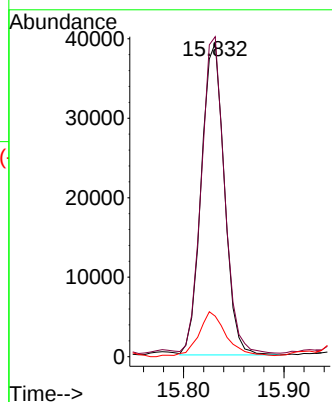
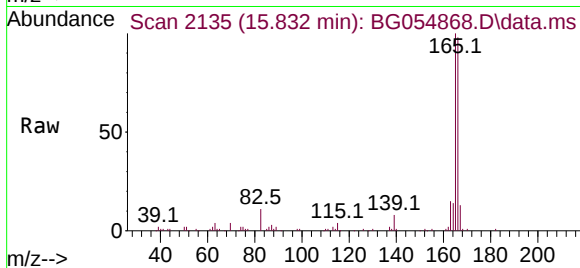
Tgt Ion:166 Resp: 62883

Ion Ratio Lower Upper

166 100

165 102.0 80.8 121.2

167 12.9 11.4 17.0



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.535 min Scan# 2425

Delta R.T. 0.005 min

Lab File: BG054868.D

Acq: 7 Sep 2022 14:14

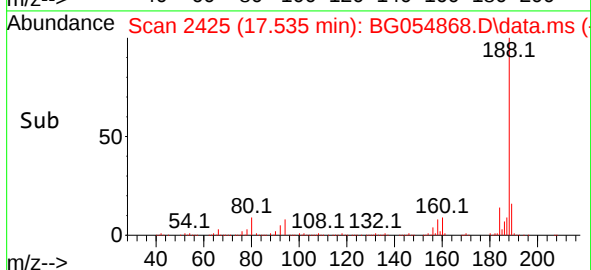
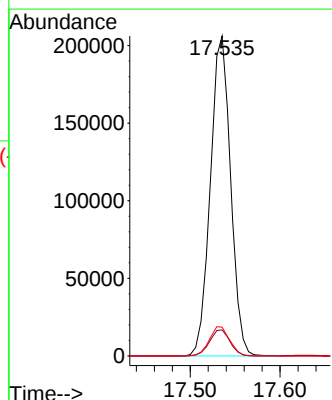
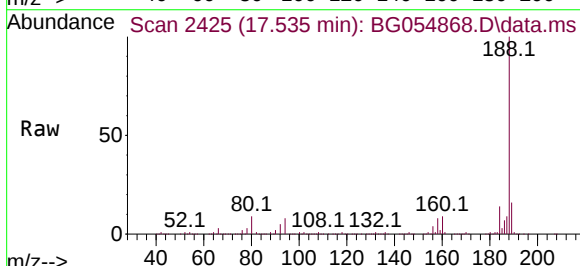
Tgt Ion:188 Resp: 322635

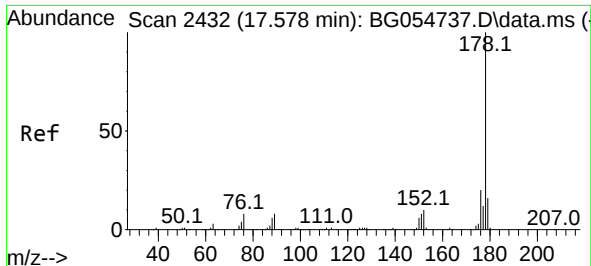
Ion Ratio Lower Upper

188 100

94 8.2 7.0 10.4

80 9.0 7.9 11.9

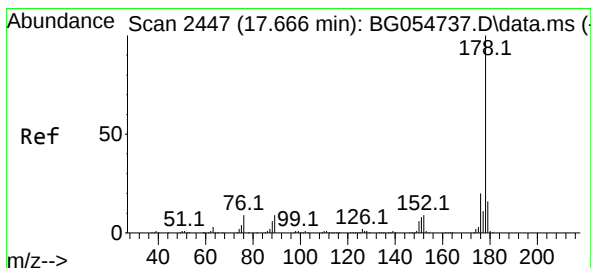
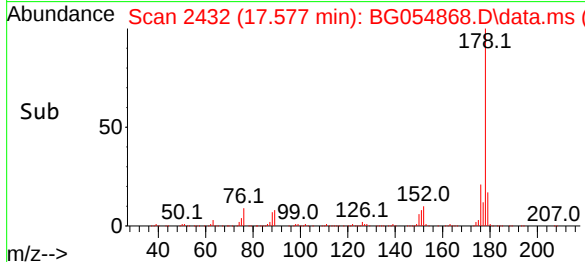
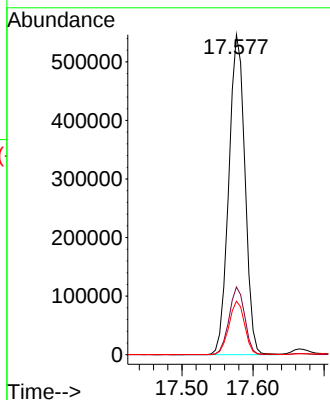
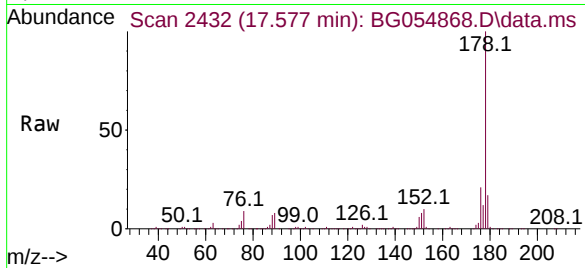




#71
Phenanthrene
Concen: 50.165 ng
RT: 17.577 min Scan# 2432
Delta R.T. -0.001 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

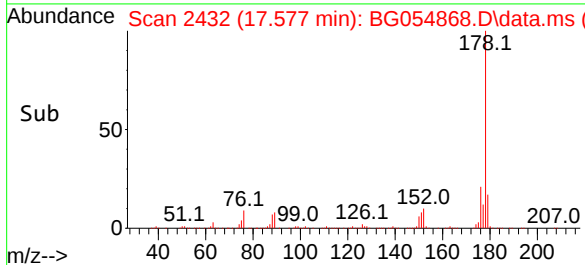
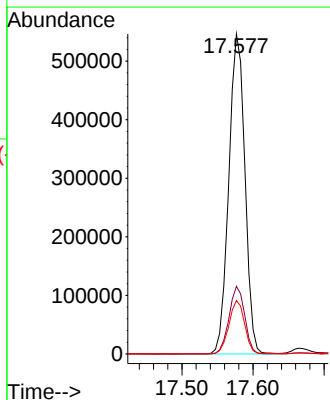
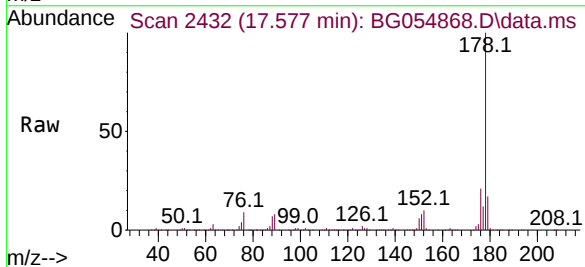
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILDL2

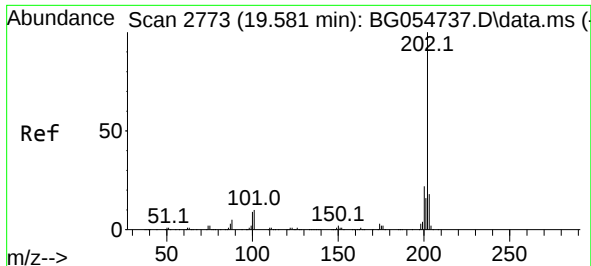
Tgt Ion:178 Resp: 862186
Ion Ratio Lower Upper
178 100
176 21.2 16.6 25.0
179 16.7 12.8 19.2



#72
Anthracene
Concen: 51.598 ng
RT: 17.577 min Scan# 2432
Delta R.T. -0.089 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

Tgt Ion:178 Resp: 862186
Ion Ratio Lower Upper
178 100
176 21.2 16.2 24.4
179 16.7 12.9 19.3

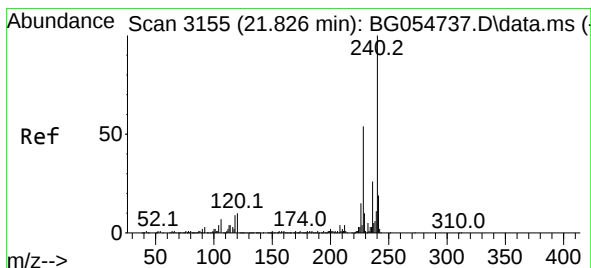
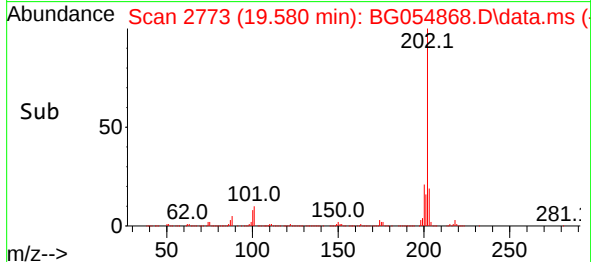
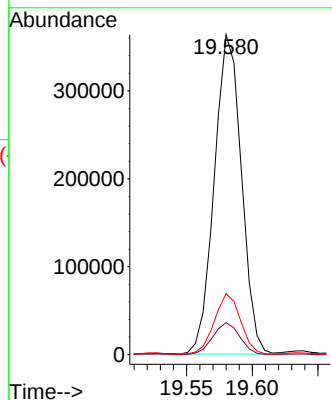
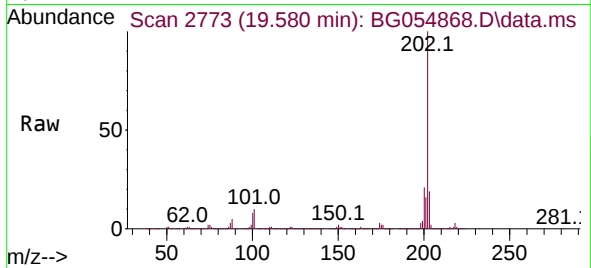




#75
Fluoranthene
Concen: 24.951 ng
RT: 19.580 min Scan# 21
Delta R.T. -0.001 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

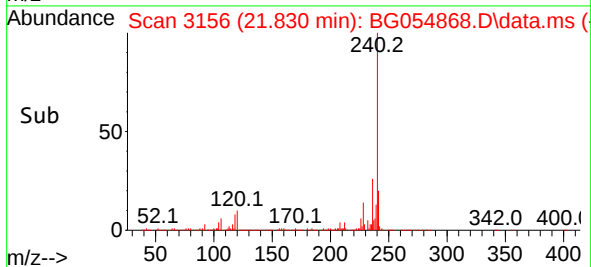
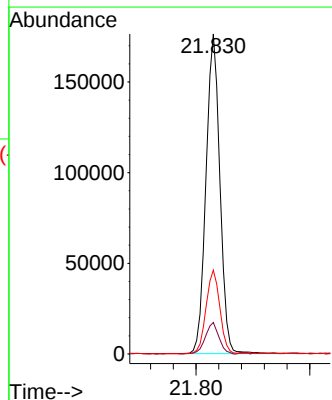
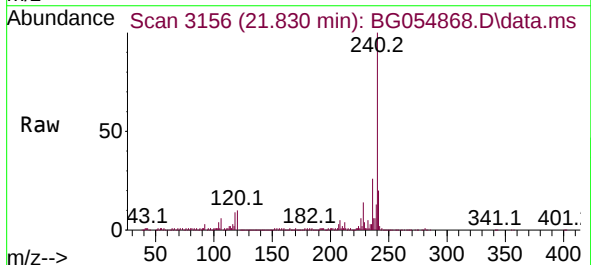
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILDL2

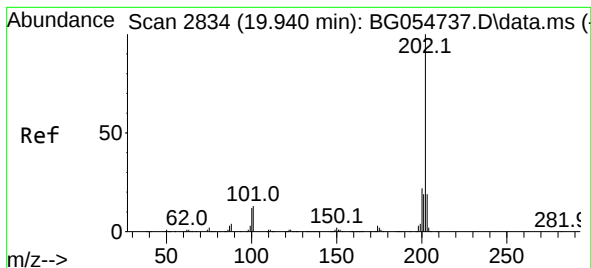
Tgt Ion:202 Resp: 521668
Ion Ratio Lower Upper
202 100
101 10.0 0.0 31.4
203 19.1 0.0 38.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.830 min Scan# 3156
Delta R.T. 0.005 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

Tgt Ion:240 Resp: 298261
Ion Ratio Lower Upper
240 100
120 9.9 8.2 12.4
236 26.2 21.2 31.8





#78

Pyrene

Concen: 44.672 ng

RT: 19.944 min Scan# 21

Delta R.T. 0.005 min

Lab File: BG054868.D

Acq: 7 Sep 2022 14:14

Instrument :

BNA_G

ClientSampleId :

AP-PIPE-2-SOILDL2

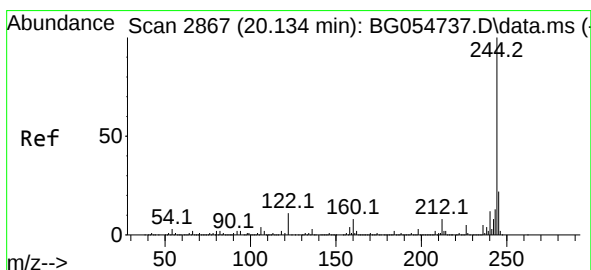
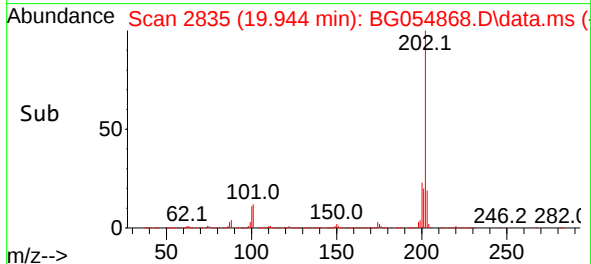
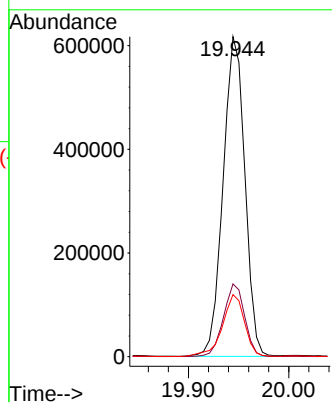
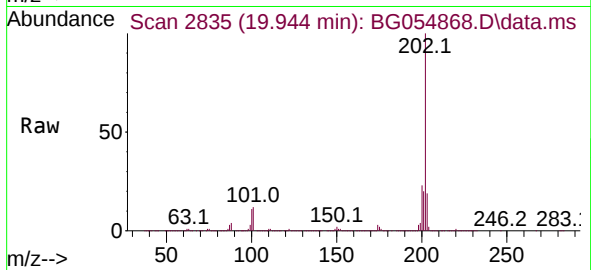
Tgt Ion:202 Resp: 929057

Ion Ratio Lower Upper

202 100

200 22.7 17.8 26.6

203 19.4 14.6 21.8



#79

Terphenyl-d14

Concen: 7.136 ng

RT: 20.127 min Scan# 2866

Delta R.T. -0.007 min

Lab File: BG054868.D

Acq: 7 Sep 2022 14:14

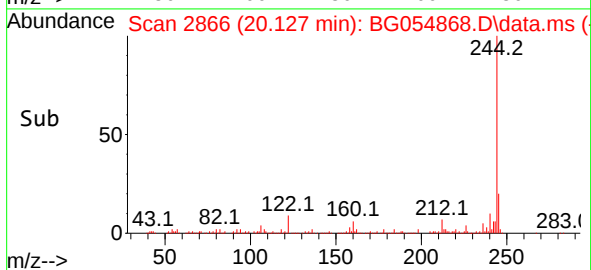
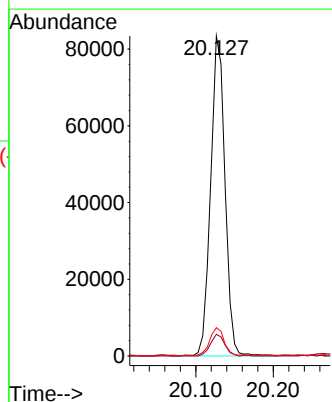
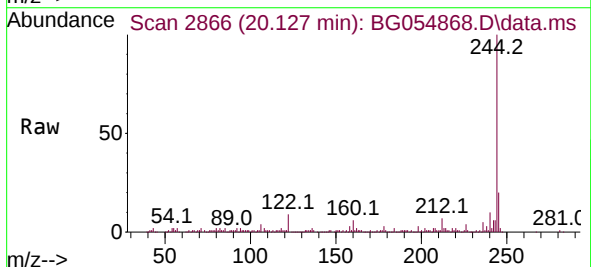
Tgt Ion:244 Resp: 107420

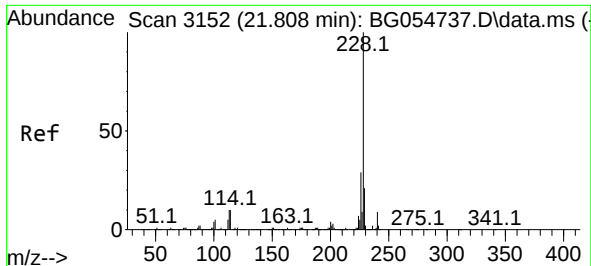
Ion Ratio Lower Upper

244 100

212 6.7 6.2 9.2

122 8.9 9.0 13.6#

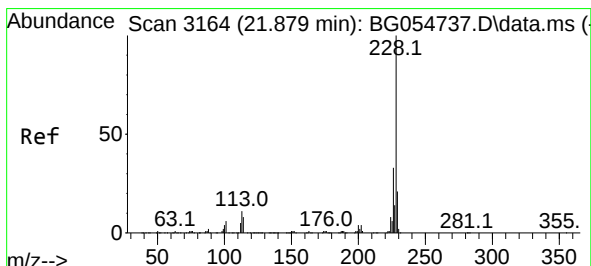
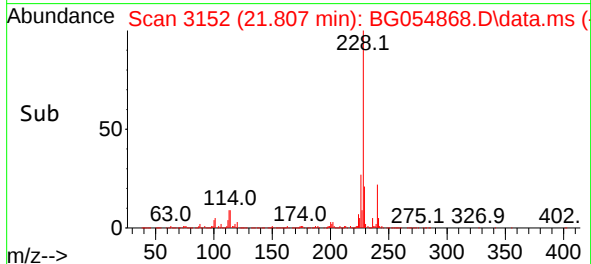
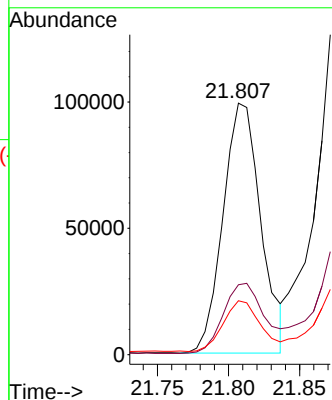
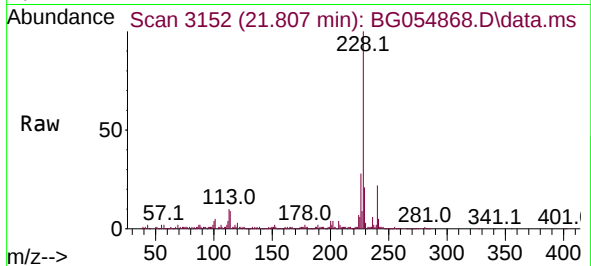




#81
Benzo(a)anthracene
Concen: 9.063 ng
RT: 21.807 min Scan# 3152
Delta R.T. -0.001 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

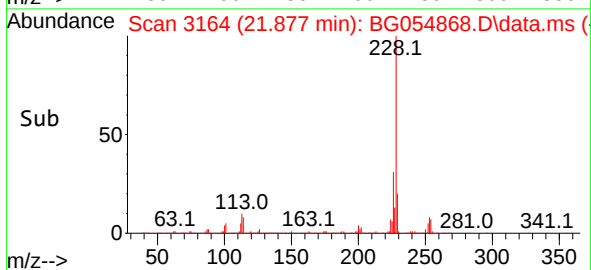
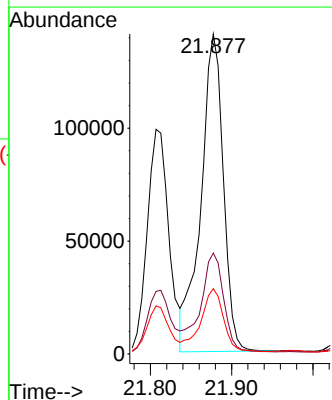
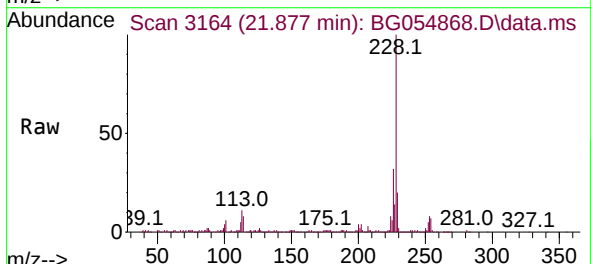
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILDL2

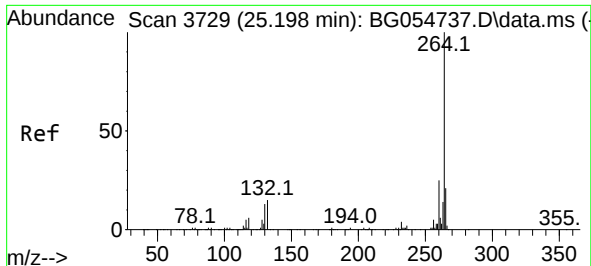
Tgt Ion:228 Resp: 183277
Ion Ratio Lower Upper
228 100
226 27.8 23.4 35.2
229 21.5 16.5 24.7



#83
Chrysene
Concen: 13.929 ng
RT: 21.877 min Scan# 3164
Delta R.T. -0.001 min
Lab File: BG054868.D
Acq: 7 Sep 2022 14:14

Tgt Ion:228 Resp: 269323
Ion Ratio Lower Upper
228 100
226 31.6 25.5 38.3
229 20.4 16.8 25.2

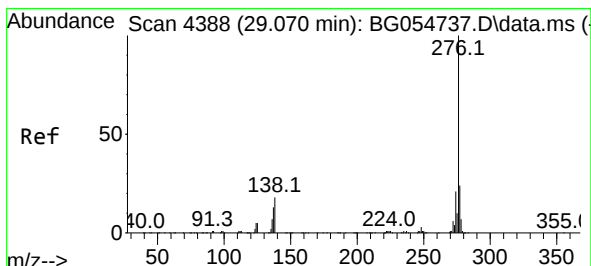
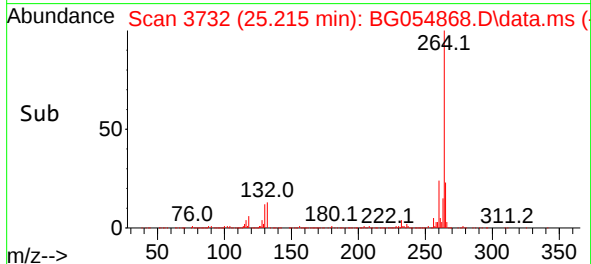
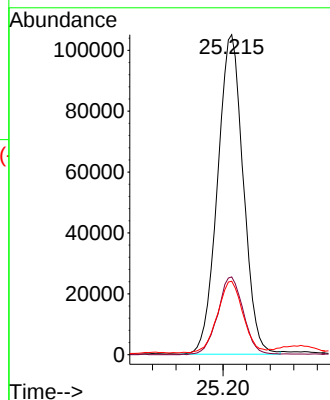
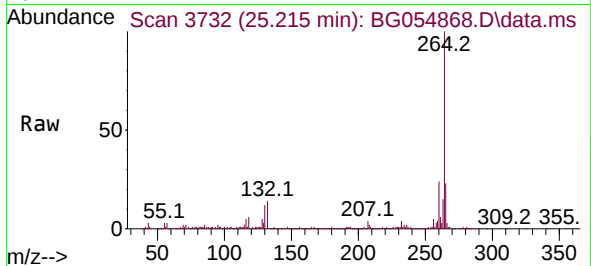




#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.215 min Scan# 31
 Delta R.T. 0.016 min
 Lab File: BG054868.D
 Acq: 7 Sep 2022 14:14

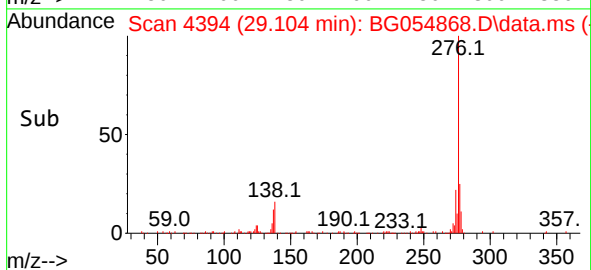
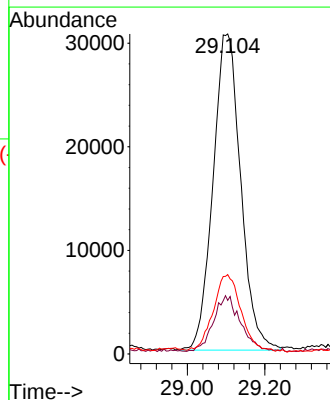
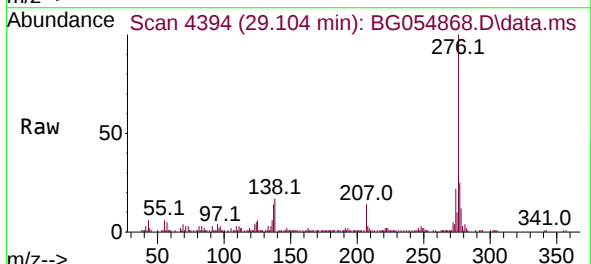
Instrument :
 BNA_G
 ClientSampleId :
 AP-PIPE-2-SOILDL2

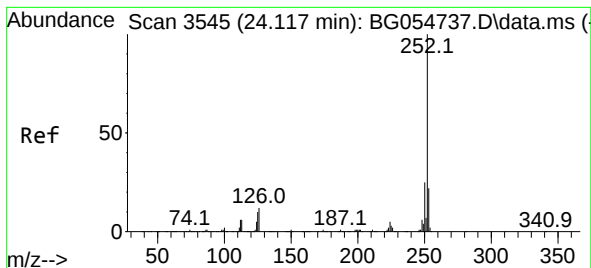
Tgt Ion:264 Resp: 318153
 Ion Ratio Lower Upper
 264 100
 260 24.3 19.9 29.9
 265 23.0 16.9 25.3



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 6.264 ng
 RT: 29.104 min Scan# 4394
 Delta R.T. 0.034 min
 Lab File: BG054868.D
 Acq: 7 Sep 2022 14:14

Tgt Ion:276 Resp: 151292
 Ion Ratio Lower Upper
 276 100
 138 17.2 12.0 18.0
 277 24.7 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 13.488 ng

RT: 24.134 min Scan# 3548

Delta R.T. 0.016 min

Lab File: BG054868.D

Acq: 7 Sep 2022 14:14

Instrument :

BNA_G

ClientSampleId :

AP-PIPE-2-SOILDL2

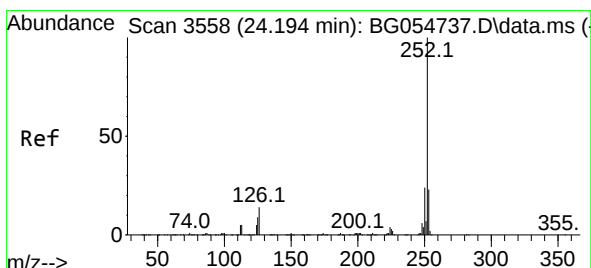
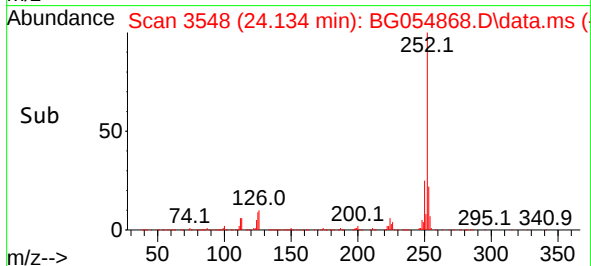
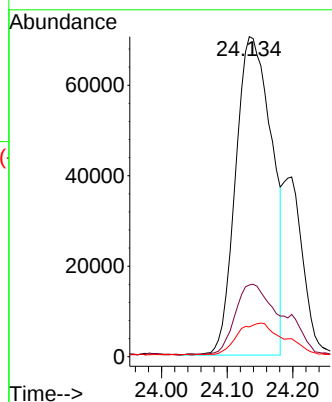
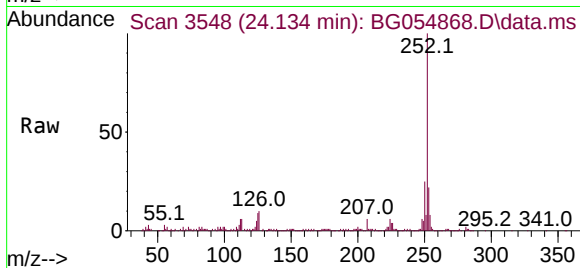
Tgt Ion:252 Resp: 269196

Ion Ratio Lower Upper

252 100

253 22.4 18.0 27.0

125 9.3 8.1 12.1



#89

Benzo(k)fluoranthene

Concen: 13.402 ng

RT: 24.134 min Scan# 3548

Delta R.T. -0.060 min

Lab File: BG054868.D

Acq: 7 Sep 2022 14:14

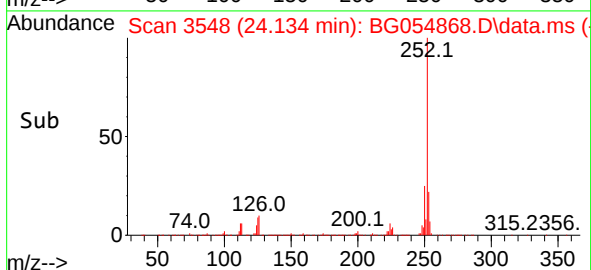
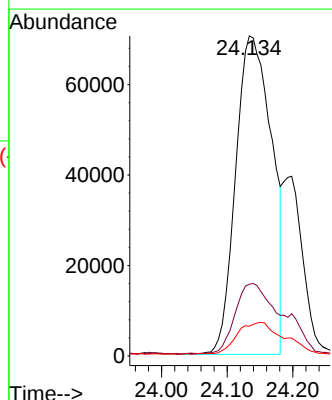
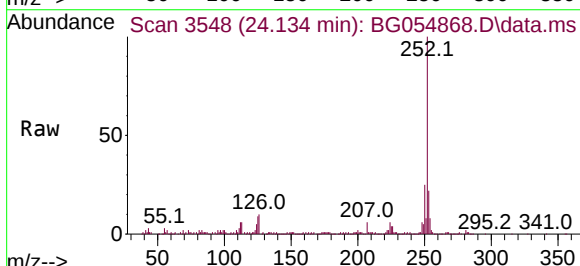
Tgt Ion:252 Resp: 269196

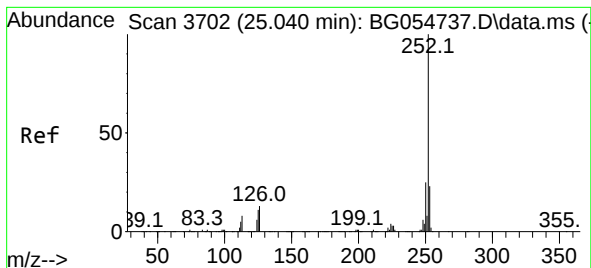
Ion Ratio Lower Upper

252 100

253 22.4 17.8 26.8

125 9.3 8.2 12.4





#90

Benzo(a)pyrene

Concen: 14.576 ng

RT: 25.050 min Scan# 31

Delta R.T. 0.011 min

Lab File: BG054868.D

Acq: 7 Sep 2022 14:14

Instrument :

BNA_G

ClientSampleId :

AP-PIPE-2-SOILDL2

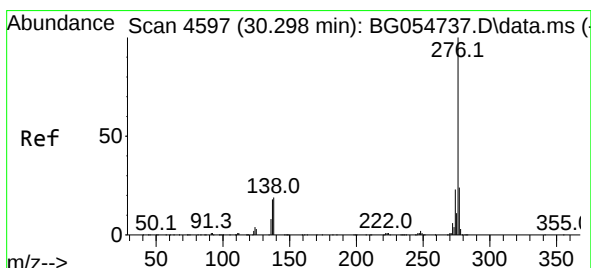
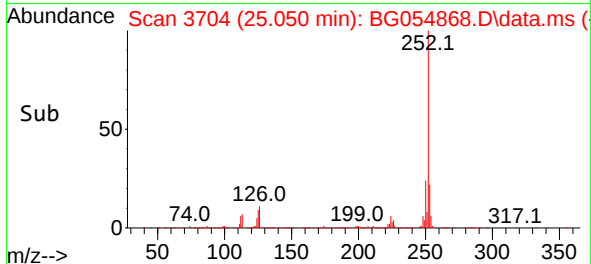
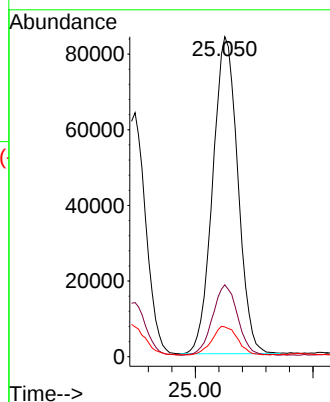
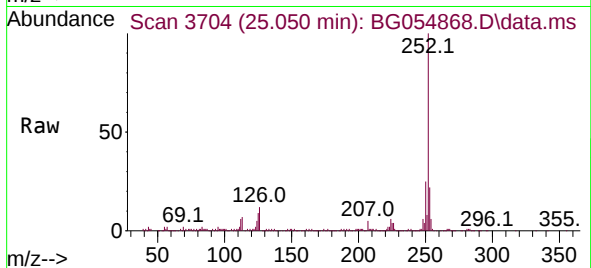
Tgt Ion:252 Resp: 248545

Ion Ratio Lower Upper

252 100

253 22.4 18.3 27.5

125 9.3 8.8 13.2



#92

Benzo(g,h,i)perylene

Concen: 9.148 ng

RT: 30.326 min Scan# 4602

Delta R.T. 0.028 min

Lab File: BG054868.D

Acq: 7 Sep 2022 14:14

Tgt Ion:276 Resp: 181846

Ion Ratio Lower Upper

276 100

277 23.7 19.4 29.0

138 18.6 16.6 25.0

