

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061623\
 Data File : BF133824.D
 Acq On : 17 Jun 2023 00:48
 Operator : CG\JU
 Sample : 03164-01RE
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-001

Quant Time: Jun 17 02:59:13 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 16 14:54:03 2023
 Response via : Initial Calibration

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

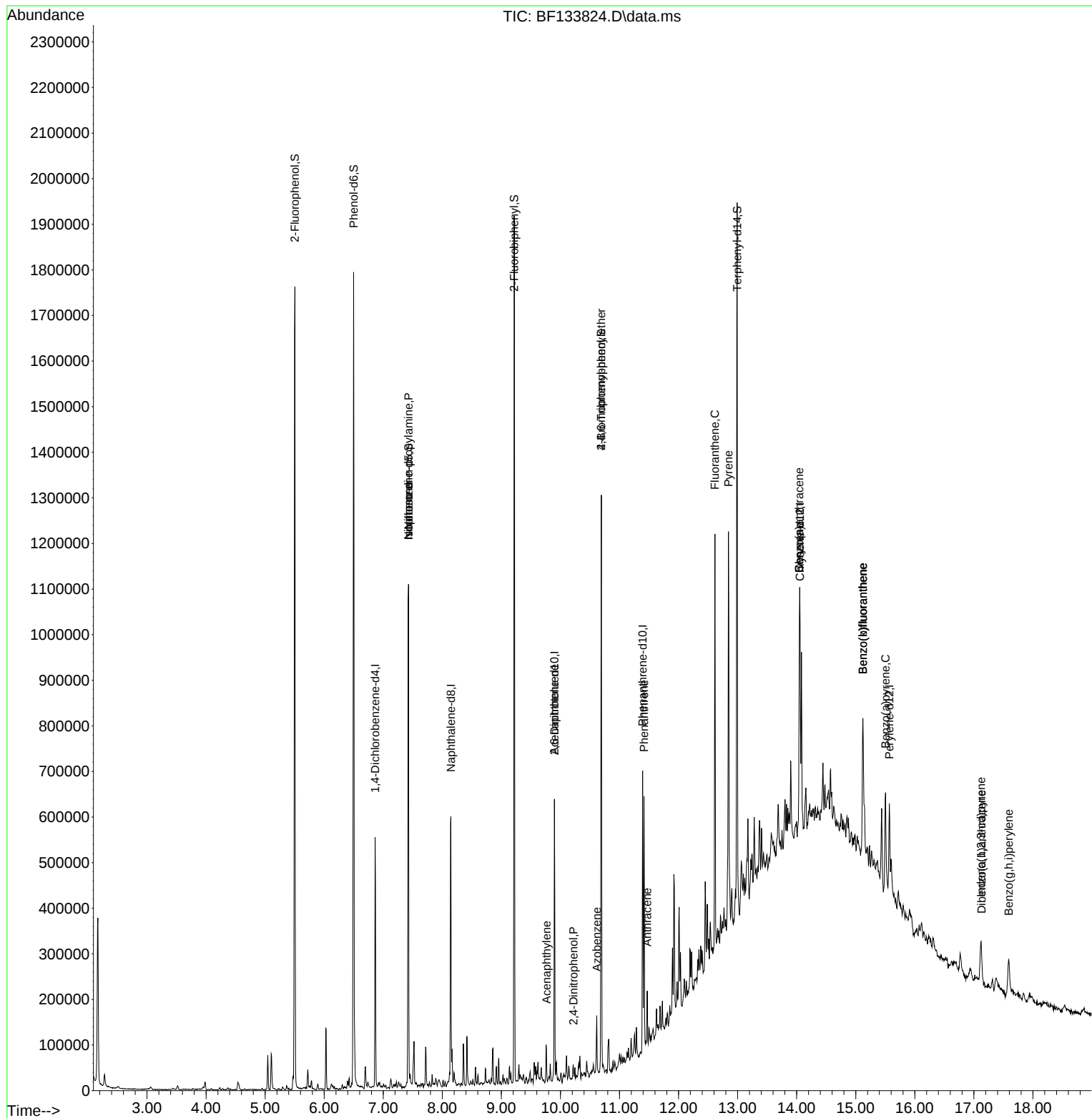
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	69976	20.000	ng	0.00
21) Naphthalene-d8	8.145	136	252502	20.000	ng	0.00
39) Acenaphthene-d10	9.898	164	109895	20.000	ng	0.00
64) Phenanthrene-d10	11.392	188	206343	20.000	ng	0.00
76) Chrysene-d12	14.057	240	117326	20.000	ng	0.00
86) Perylene-d12	15.568	264	94652	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	453145	112.736	ng	0.01
7) Phenol-d6	6.498	99	526251	100.582	ng	0.00
23) Nitrobenzene-d5	7.428	82	338863	73.096	ng	0.00
42) 2,4,6-Tribromophenol	10.692	330	131496	94.528	ng	0.00
45) 2-Fluorobiphenyl	9.216	172	549505	71.080	ng	0.00
79) Terphenyl-d14	12.992	244	527673	69.592	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.428	70	49336	14.821	ng	# 77
25) Isophorone	7.428	82	337755	39.685	ng	# 65
49) Acenaphthylene	9.763	152	30078	2.718	ng	99
51) 2,6-Dinitrotoluene	9.898	165	14742	8.707	ng	# 30
54) 2,4-Dinitrophenol	10.222	184	76	5.802	ng	# 1
63) Azobenzene	10.616	77	19909	2.519	ng	# 1
67) 4-Bromophenyl-phenylether	10.692	248	8570	3.721	ng	# 1
71) Phenanthrene	11.416	178	181415	17.329	ng	99
72) Anthracene	11.469	178	43286	3.965	ng	99
75) Fluoranthene	12.616	202	329407	29.630	ng	99
78) Pyrene	12.845	202	373777	34.199	ng	99
81) Benzo(a)anthracene	14.045	228	157188	19.369	ng	96
83) Chrysene	14.045	228	157188	20.478	ng	96
87) Indeno(1,2,3-cd)pyrene	17.121	276	71705	11.012	ng	96
88) Benzo(b)fluoranthene	15.121	252	193728	33.694	ng	# 96
89) Benzo(k)fluoranthene	15.121	252	193728	34.589	ng	# 96
90) Benzo(a)pyrene	15.504	252	106946	20.042	ng	97
91) Dibenzo(a,h)anthracene	17.133	278	17618	3.268	ng	# 75
92) Benzo(g,h,i)perylene	17.592	276	76886	14.384	ng	98

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

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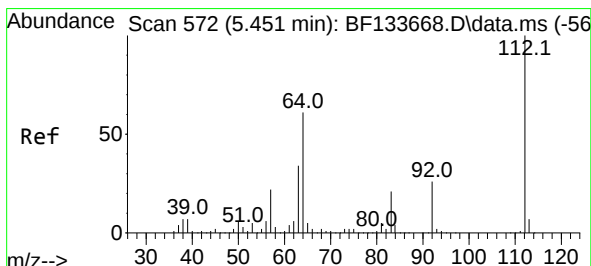
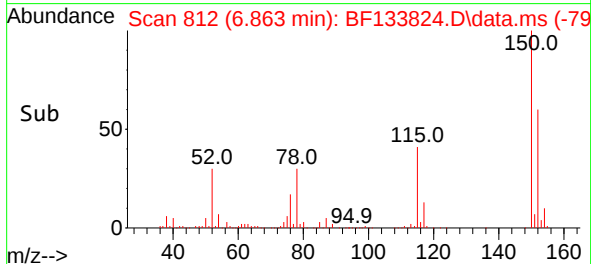
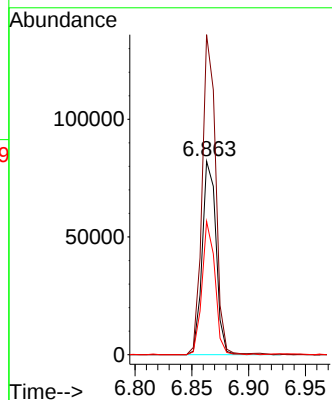
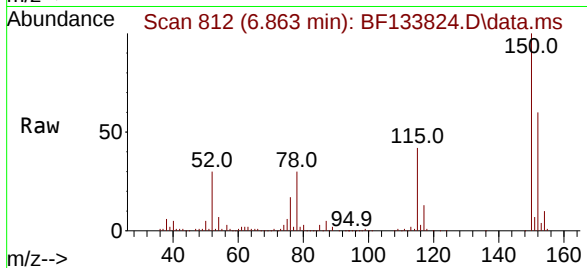




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF133824.D
Acq: 17 Jun 2023 00:48

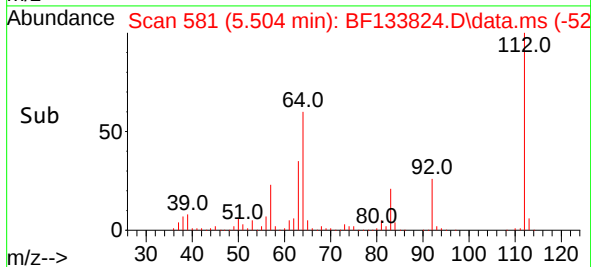
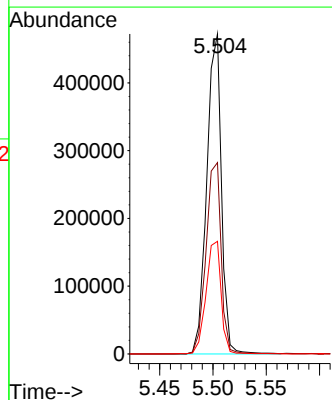
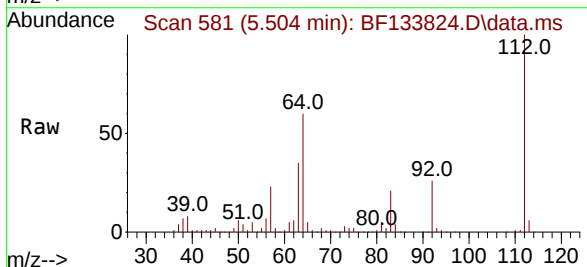
Instrument :
BNA_F
ClientSampleId :
SOIL-001

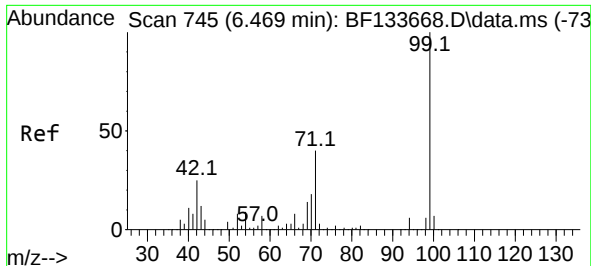
Tgt Ion:152 Resp: 69976
Ion Ratio Lower Upper
152 100
150 165.4 124.3 186.5
115 68.9 48.5 72.7



#5
2-Fluorophenol
Concen: 112.736 ng
RT: 5.504 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF133824.D
Acq: 17 Jun 2023 00:48

Tgt Ion:112 Resp: 453145
Ion Ratio Lower Upper
112 100
64 59.8 49.0 73.4
63 35.2 26.8 40.2

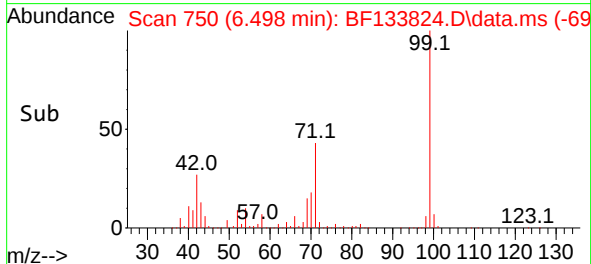
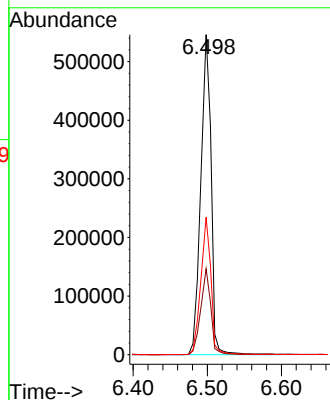
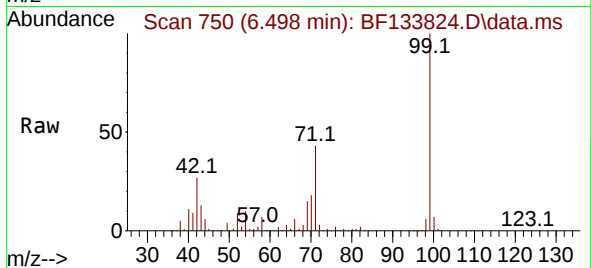




#7
Phenol-d6
Concen: 100.582 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF133824.D
Acq: 17 Jun 2023 00:48

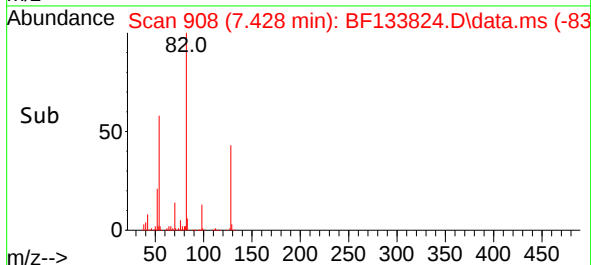
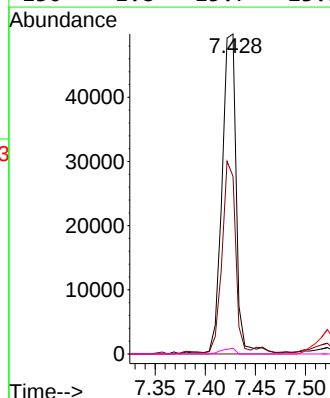
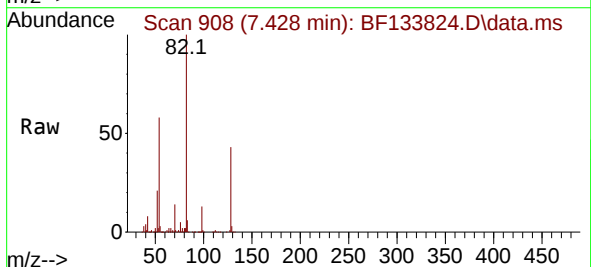
Instrument :
BNA_F
ClientSampleId :
SOIL-001

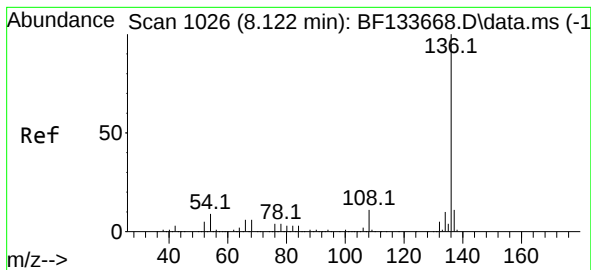
Tgt Ion: 99 Resp: 526251
Ion Ratio Lower Upper
99 100
42 26.9 19.9 29.9
71 42.9 32.2 48.4



#19
n-Nitroso-di-n-propylamine
Concen: 14.821 ng
RT: 7.428 min Scan# 908
Delta R.T. 0.153 min
Lab File: BF133824.D
Acq: 17 Jun 2023 00:48

Tgt Ion: 70 Resp: 49336
Ion Ratio Lower Upper
70 100
42 55.5 55.8 83.8#
101 0.0 8.1 12.1#
130 1.8 15.7 23.5#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.145 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

Instrument :

BNA_F

ClientSampleId :

SOIL-001

Tgt Ion:136 Resp: 252502

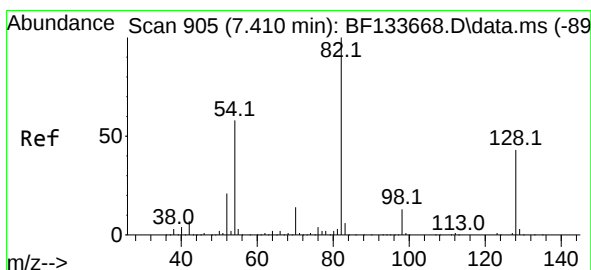
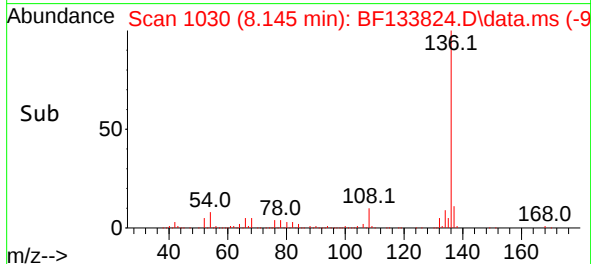
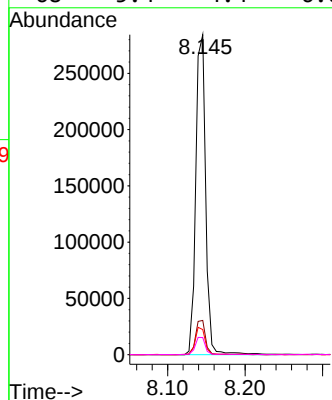
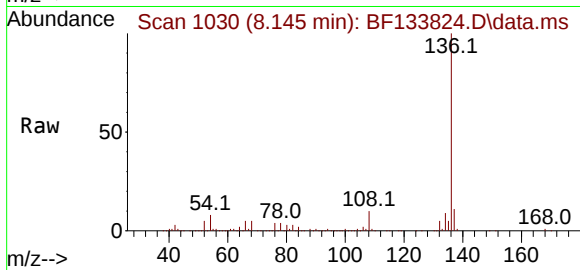
Ion Ratio Lower Upper

136 100

137 10.7 8.8 13.2

54 7.9 7.4 11.0

68 5.4 4.4 6.6



#23

Nitrobenzene-d5

Concen: 73.096 ng

RT: 7.428 min Scan# 908

Delta R.T. -0.000 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

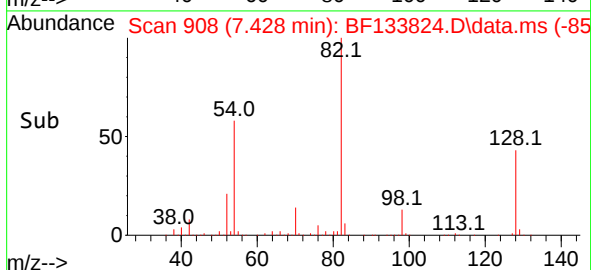
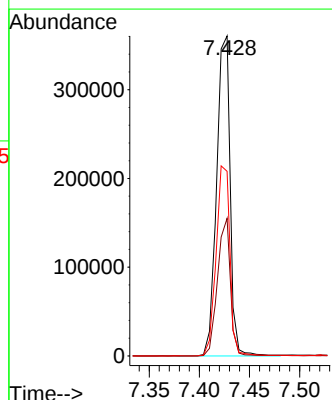
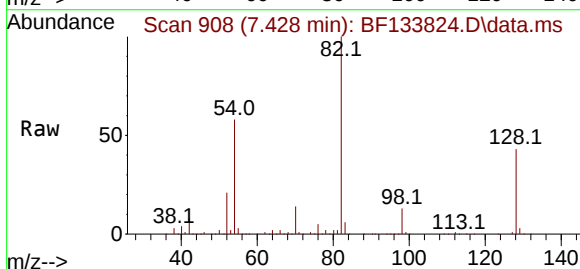
Tgt Ion: 82 Resp: 338863

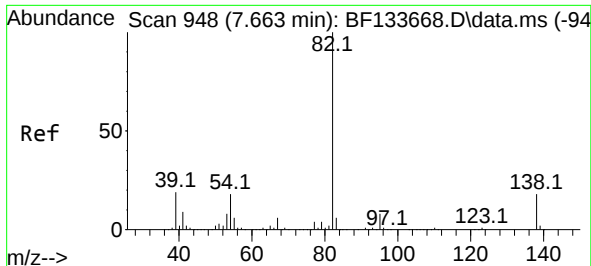
Ion Ratio Lower Upper

82 100

128 43.0 34.2 51.2

54 57.7 46.5 69.7

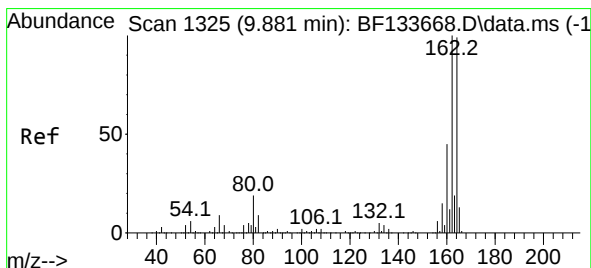
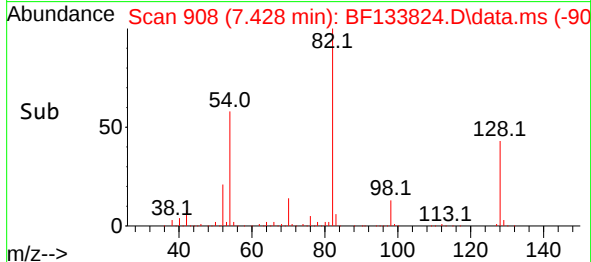
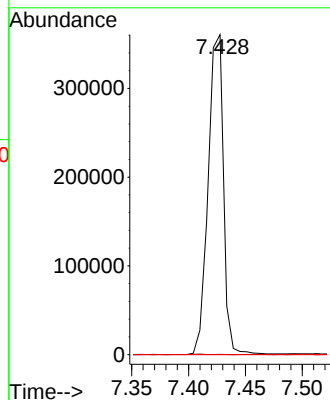
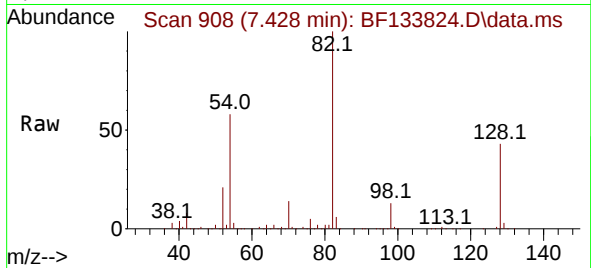




#25
Isophorone
Concen: 39.685 ng
RT: 7.428 min Scan# 90
Delta R.T. -0.253 min
Lab File: BF133824.D
Acq: 17 Jun 2023 00:48

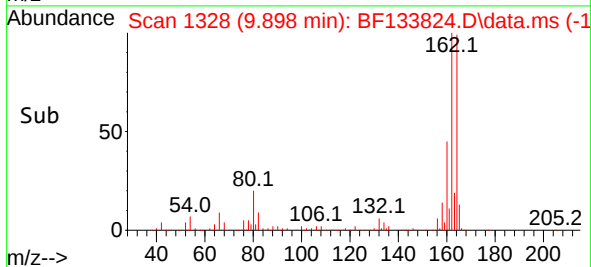
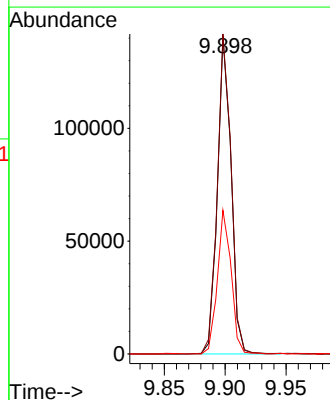
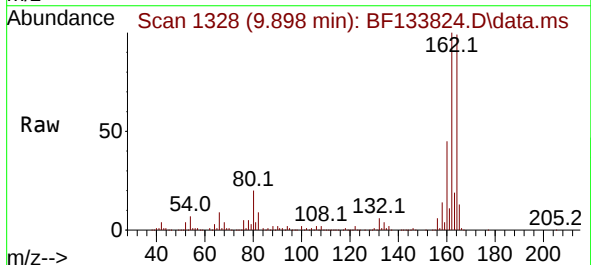
Instrument :
BNA_F
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SOIL-001

Tgt Ion: 82 Resp: 337755
Ion Ratio Lower Upper
82 100
95 0.1 6.0 9.0#
138 0.0 14.2 21.2#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1328
Delta R.T. -0.006 min
Lab File: BF133824.D
Acq: 17 Jun 2023 00:48

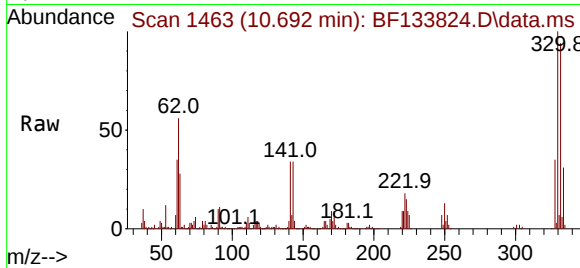
Tgt Ion:164 Resp: 109895
Ion Ratio Lower Upper
164 100
162 100.9 80.8 121.2
160 45.3 36.7 55.1



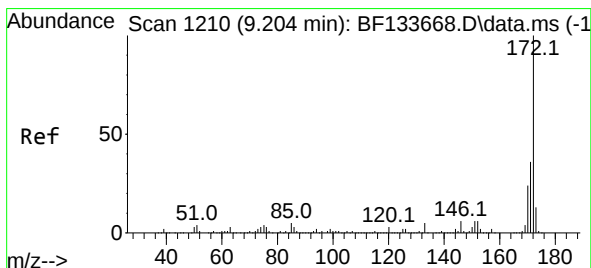
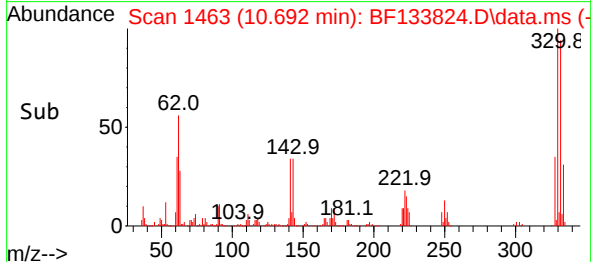
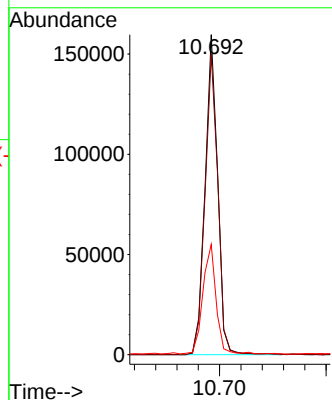


#42
2,4,6-Tribromophenol
Concen: 94.528 ng
RT: 10.692 min Scan# 1463
Delta R.T. -0.000 min
Lab File: BF133824.D
Acq: 17 Jun 2023 00:48

Instrument :
BNA_F
ClientSampleId :
SOIL-001

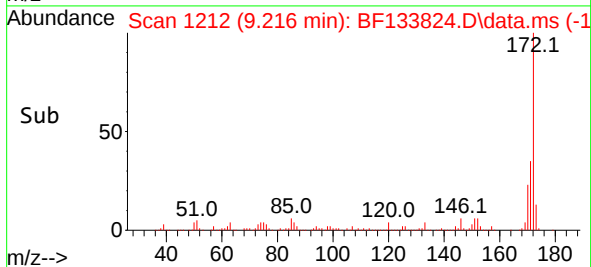
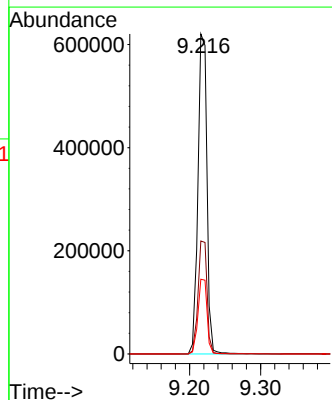
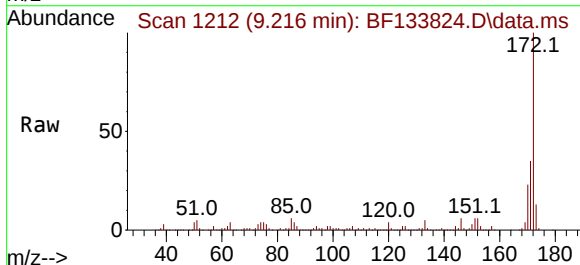


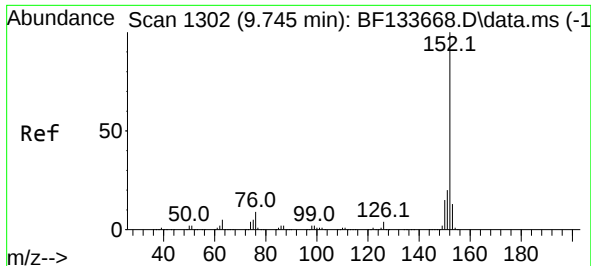
Tgt Ion:330 Resp: 131496
Ion Ratio Lower Upper
330 100
332 95.9 77.2 115.8
141 35.5 24.9 37.3



#45
2-Fluorobiphenyl
Concen: 71.080 ng
RT: 9.216 min Scan# 1212
Delta R.T. -0.006 min
Lab File: BF133824.D
Acq: 17 Jun 2023 00:48

Tgt Ion:172 Resp: 549505
Ion Ratio Lower Upper
172 100
171 35.3 28.6 43.0
170 23.3 19.1 28.7





#49

Acenaphthylene

Concen: 2.718 ng

RT: 9.763 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

Instrument :

BNA_F

ClientSampleId :

SOIL-001

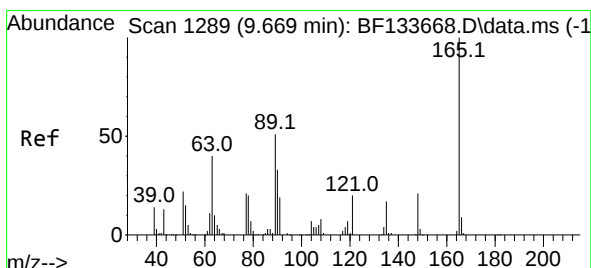
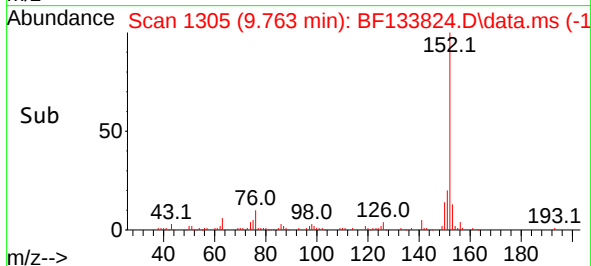
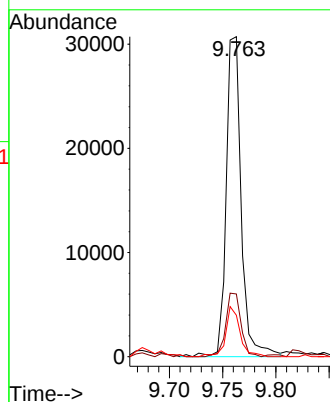
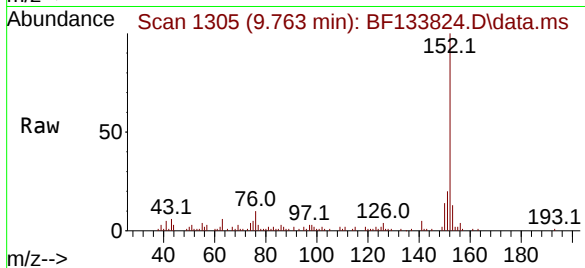
Tgt Ion:152 Resp: 30078

Ion Ratio Lower Upper

152 100

151 19.6 16.2 24.4

153 13.0 10.4 15.6



#51

2,6-Dinitrotoluene

Concen: 8.707 ng

RT: 9.898 min Scan# 1328

Delta R.T. 0.212 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

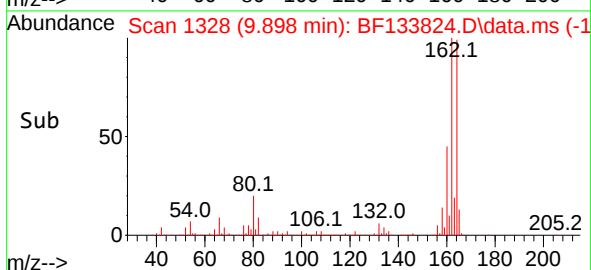
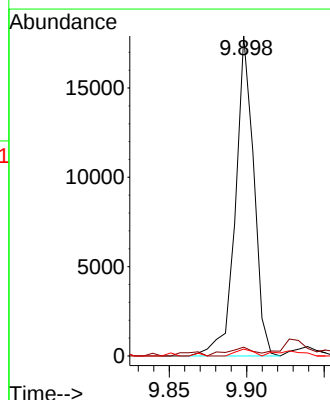
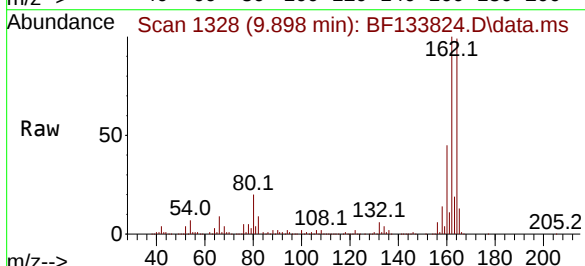
Tgt Ion:165 Resp: 14742

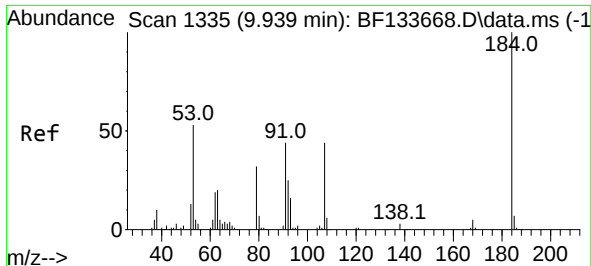
Ion Ratio Lower Upper

165 100

63 2.8 42.1 63.1#

89 2.1 40.9 61.3#

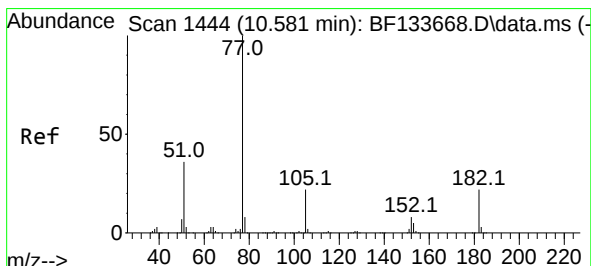
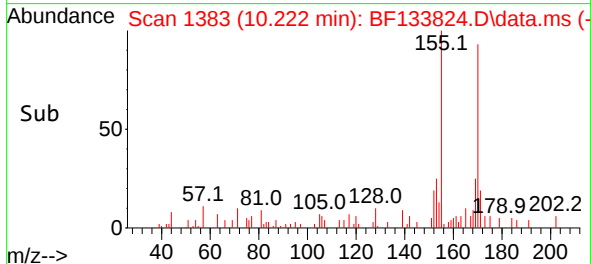
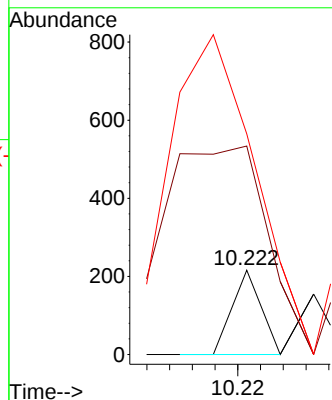
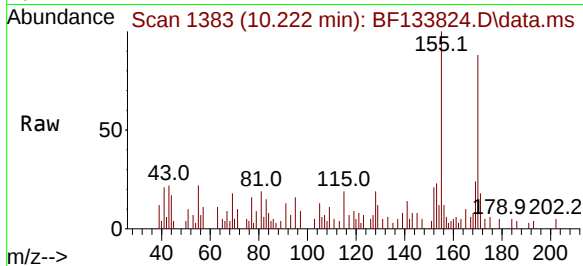




#54
2,4-Dinitrophenol
Concen: 5.802 ng
RT: 10.222 min Scan# 11
Delta R.T. 0.259 min
Lab File: BF133824.D
Acq: 17 Jun 2023 00:48

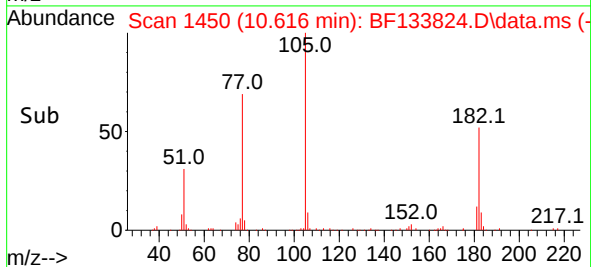
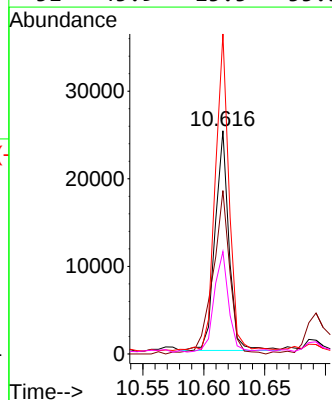
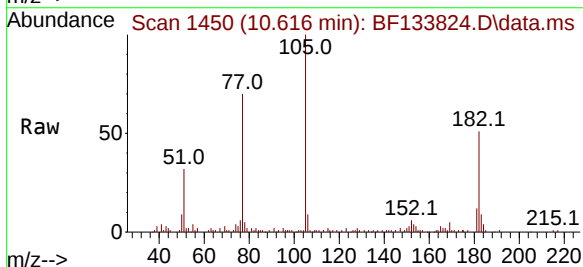
Instrument :
BNA_F
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SOIL-001

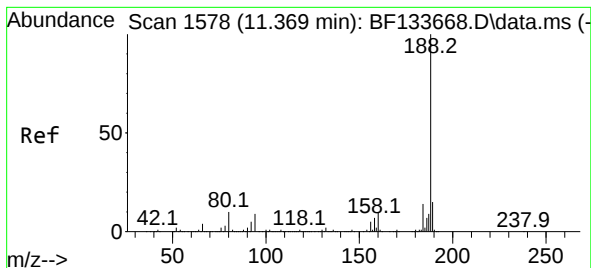
Tgt Ion:184 Resp: 76
Ion Ratio Lower Upper
184 100
63 247.2 55.3 82.9#
154 261.6 51.9 77.9#



#63
Azobenzene
Concen: 2.519 ng
RT: 10.616 min Scan# 1450
Delta R.T. 0.012 min
Lab File: BF133824.D
Acq: 17 Jun 2023 00:48

Tgt Ion: 77 Resp: 19909
Ion Ratio Lower Upper
77 100
182 73.2 1.6 41.6#
105 143.3 1.6 41.6#
51 45.9 15.5 55.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.392 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

Instrument :

BNA_F

ClientSampleId :

SOIL-001

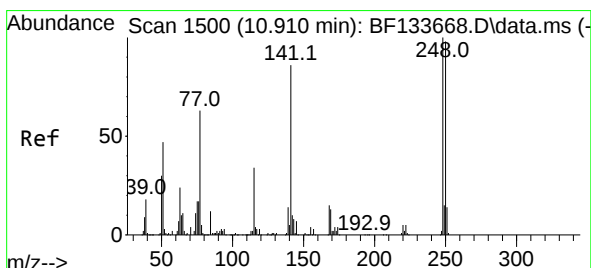
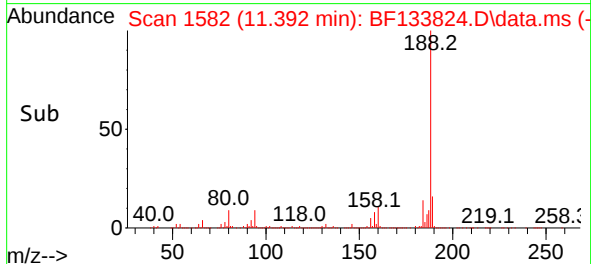
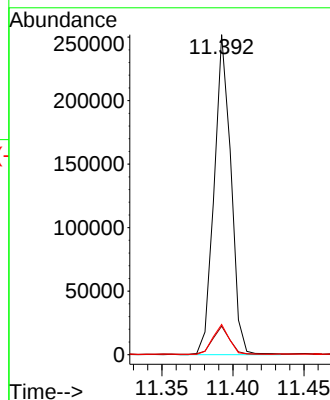
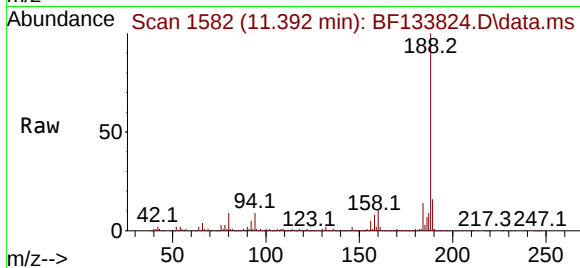
Tgt Ion:188 Resp: 206343

Ion Ratio Lower Upper

188 100

94 8.9 6.8 10.2

80 9.4 7.8 11.6



#67

4-Bromophenyl-phenylether

Concen: 3.721 ng

RT: 10.692 min Scan# 1463

Delta R.T. -0.247 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

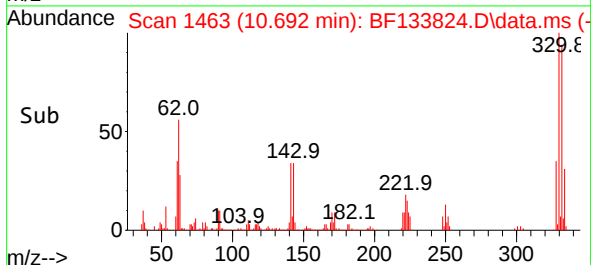
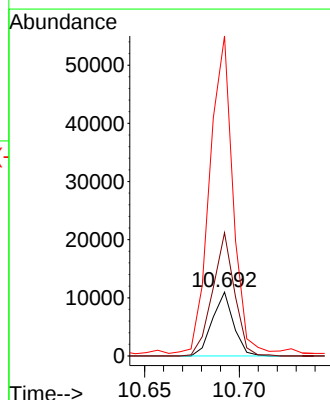
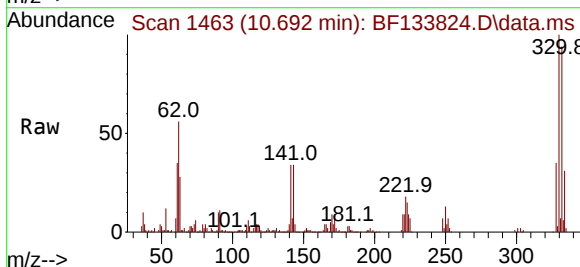
Tgt Ion:248 Resp: 8570

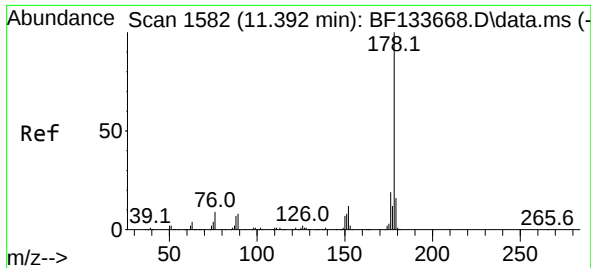
Ion Ratio Lower Upper

248 100

250 193.2 78.3 117.5#

141 501.6 69.0 103.6#

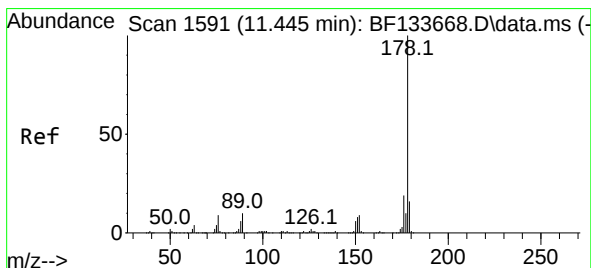
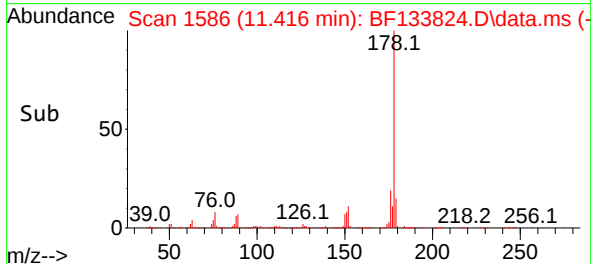
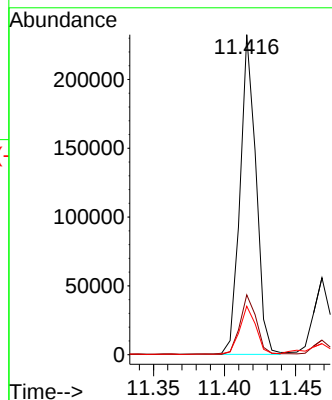
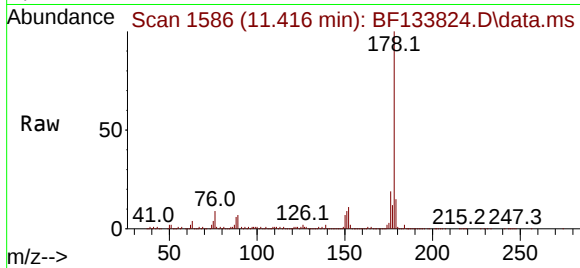




#71
Phenanthrene
Concen: 17.329 ng
RT: 11.416 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF133824.D
Acq: 17 Jun 2023 00:48

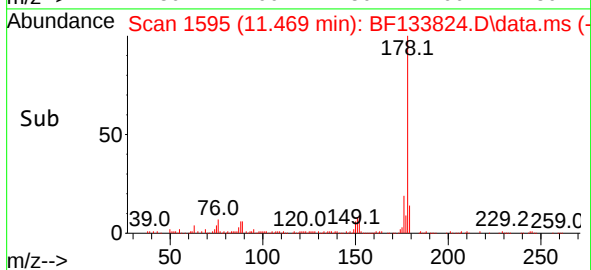
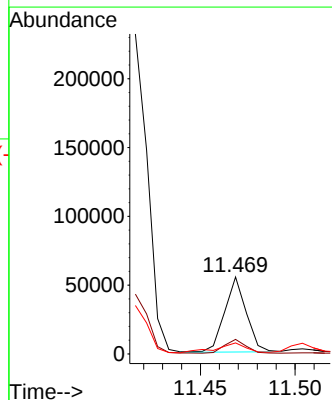
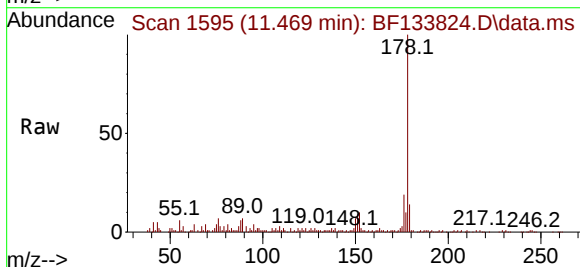
Instrument :
BNA_F
ClientSampleId :
SOIL-001

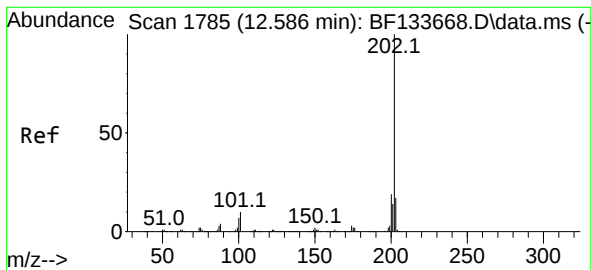
Tgt Ion:178 Resp: 181415
Ion Ratio Lower Upper
178 100
176 18.7 15.6 23.4
179 15.2 12.4 18.6



#72
Anthracene
Concen: 3.965 ng
RT: 11.469 min Scan# 1595
Delta R.T. -0.000 min
Lab File: BF133824.D
Acq: 17 Jun 2023 00:48

Tgt Ion:178 Resp: 43286
Ion Ratio Lower Upper
178 100
176 18.9 15.1 22.7
179 14.4 12.6 18.8





#75

Fluoranthene

Concen: 29.630 ng

RT: 12.616 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

Instrument :

BNA_F

ClientSampleId :

SOIL-001

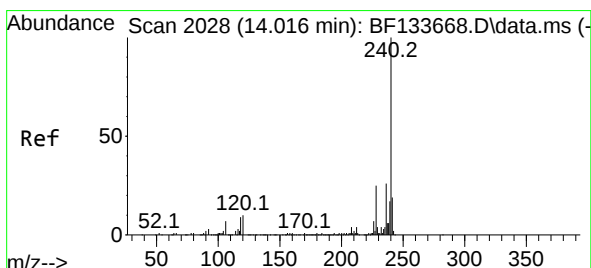
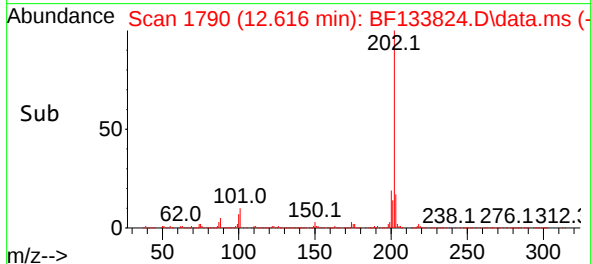
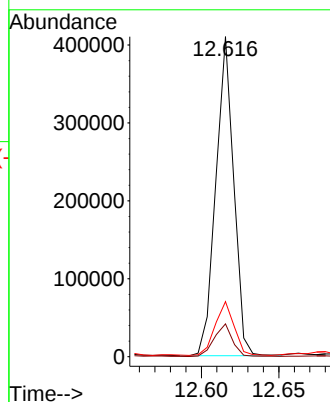
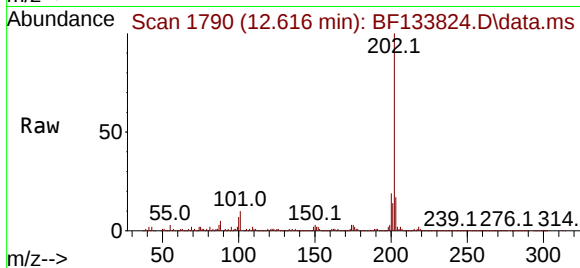
Tgt Ion:202 Resp: 329407

Ion Ratio Lower Upper

202 100

101 10.3 0.0 29.6

203 17.2 0.0 37.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 2035

Delta R.T. 0.006 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

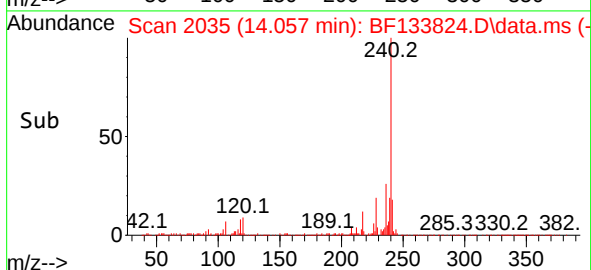
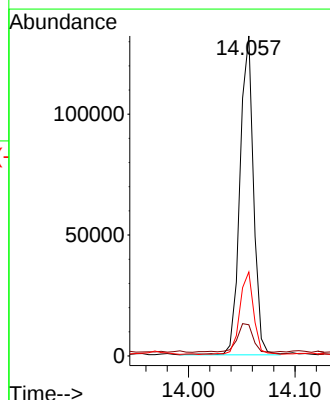
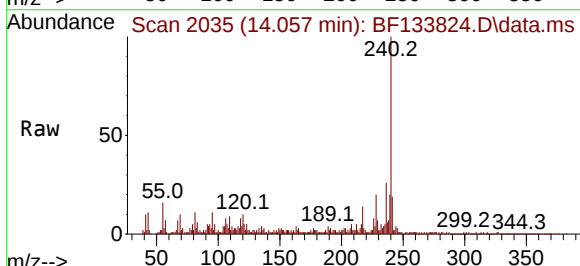
Tgt Ion:240 Resp: 117326

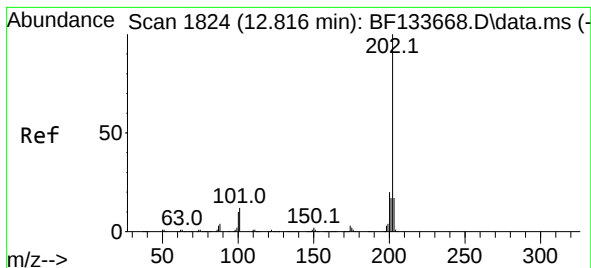
Ion Ratio Lower Upper

240 100

120 9.7 8.1 12.1

236 26.2 20.5 30.7





#78

Pyrene

Concen: 34.199 ng

RT: 12.845 min Scan# 1829

Delta R.T. -0.000 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

Instrument :

BNA_F

ClientSampleId :

SOIL-001

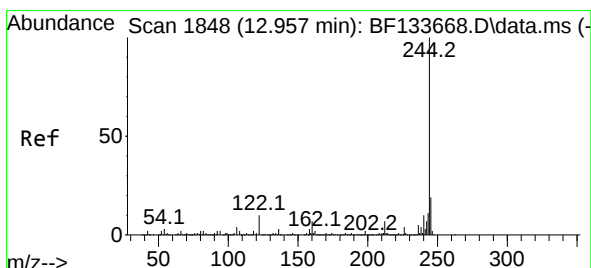
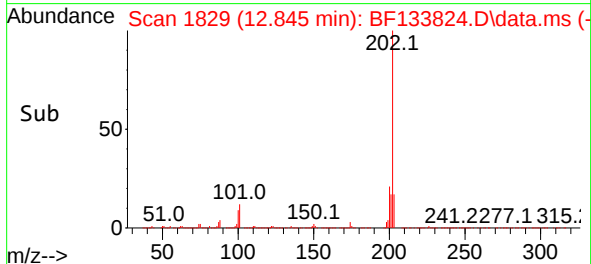
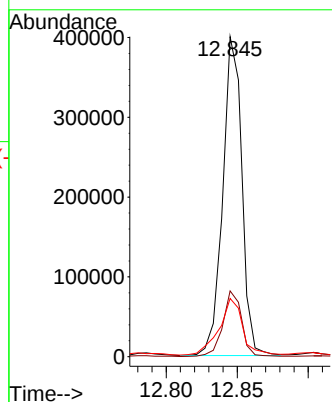
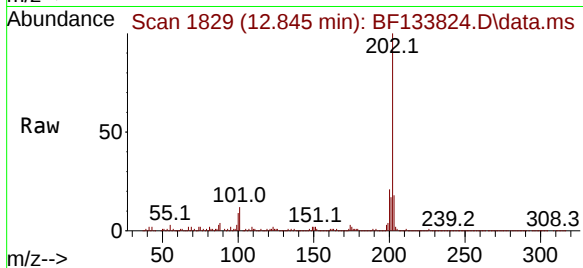
Tgt Ion:202 Resp: 373777

Ion Ratio Lower Upper

202 100

200 20.5 16.2 24.2

203 18.2 13.9 20.9



#79

Terphenyl-d14

Concen: 69.592 ng

RT: 12.992 min Scan# 1854

Delta R.T. -0.000 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

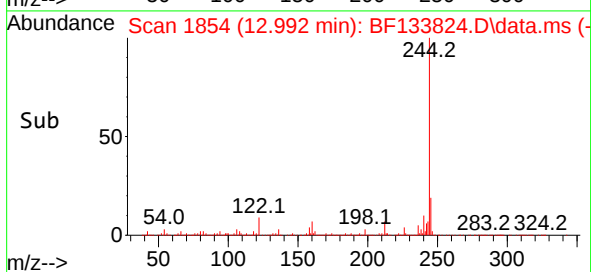
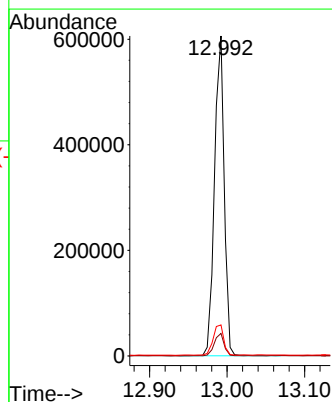
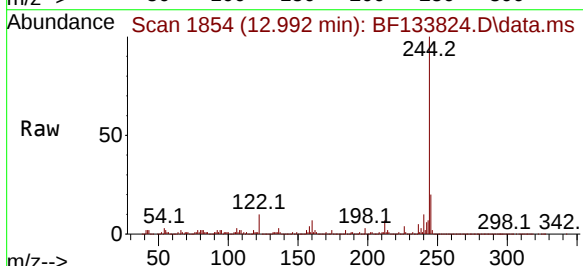
Tgt Ion:244 Resp: 527673

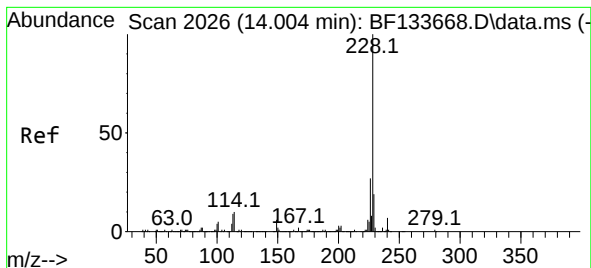
Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.2

122 9.7 8.1 12.1





#81

Benzo(a)anthracene

Concen: 19.369 ng

RT: 14.045 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

Instrument :

BNA_F

ClientSampleId :

SOIL-001

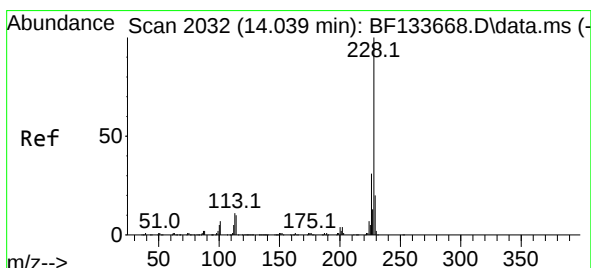
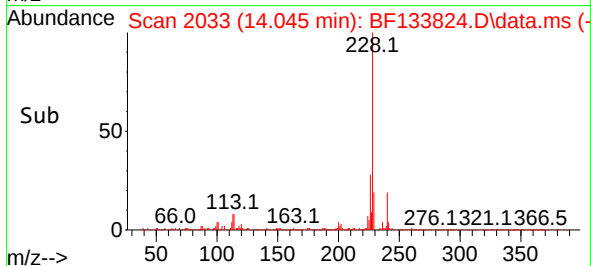
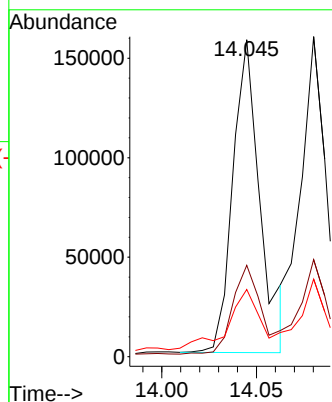
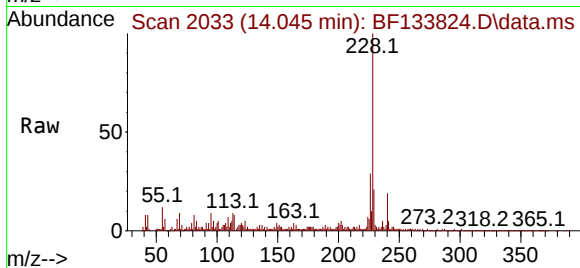
Tgt Ion:228 Resp: 157188

Ion Ratio Lower Upper

228 100

226 28.8 21.7 32.5

229 21.2 15.4 23.2



#83

Chrysene

Concen: 20.478 ng

RT: 14.045 min Scan# 2033

Delta R.T. -0.035 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

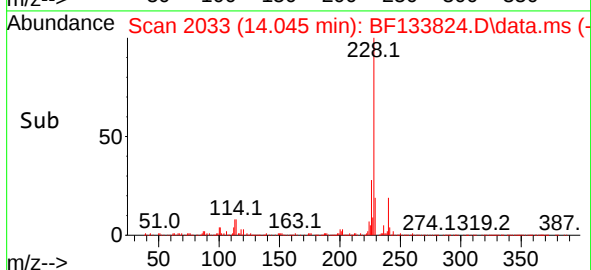
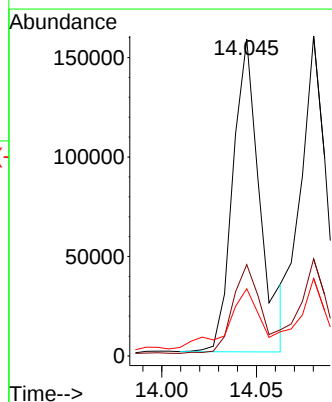
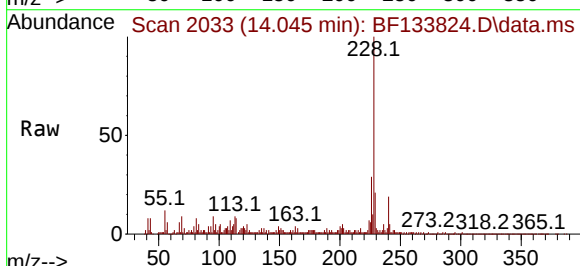
Tgt Ion:228 Resp: 157188

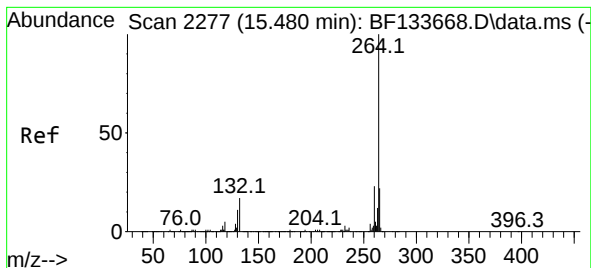
Ion Ratio Lower Upper

228 100

226 28.8 25.0 37.6

229 21.2 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.568 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

Instrument :

BNA_F

ClientSampleId :

SOIL-001

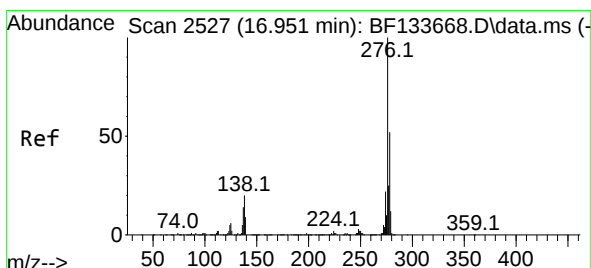
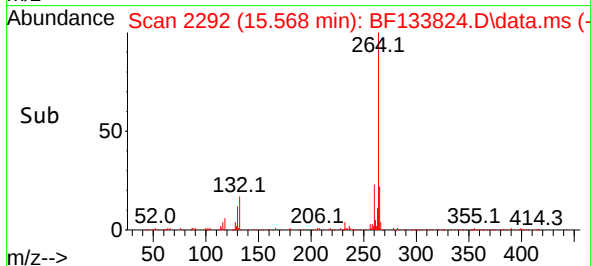
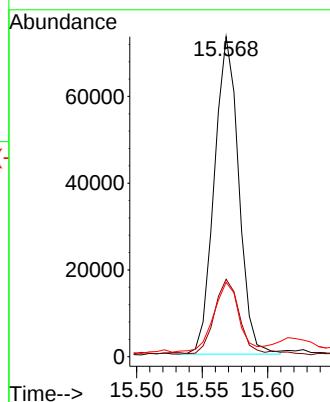
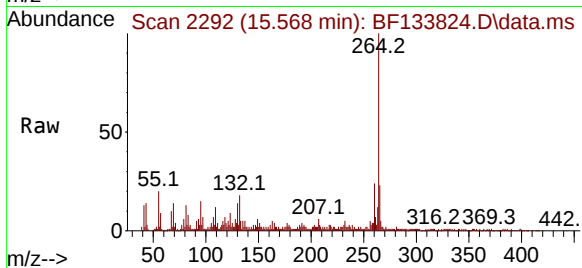
Tgt Ion:264 Resp: 94652

Ion Ratio Lower Upper

264 100

260 24.2 18.2 27.2

265 23.2 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 11.012 ng

RT: 17.121 min Scan# 2556

Delta R.T. 0.006 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

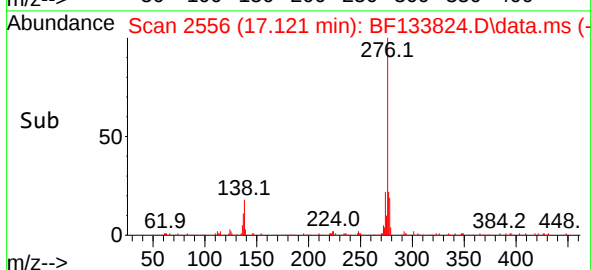
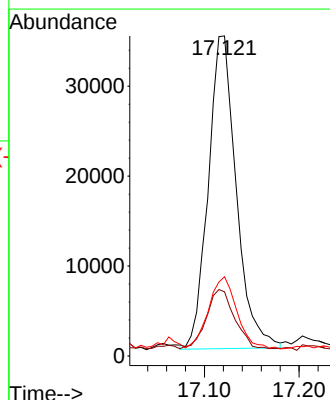
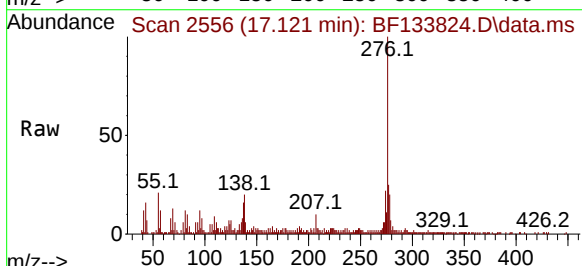
Tgt Ion:276 Resp: 71705

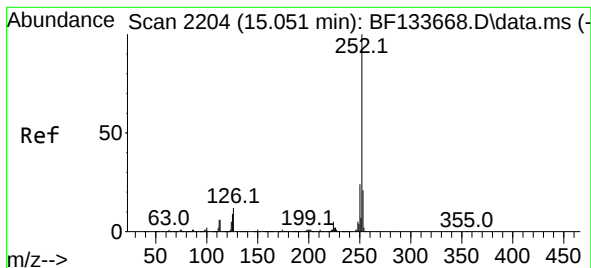
Ion Ratio Lower Upper

276 100

138 20.3 17.9 26.9

277 23.3 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 33.694 ng

RT: 15.121 min Scan# 2216

Delta R.T. 0.006 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

Instrument :

BNA_F

ClientSampleId :

SOIL-001

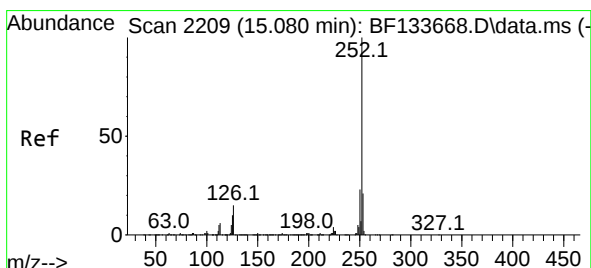
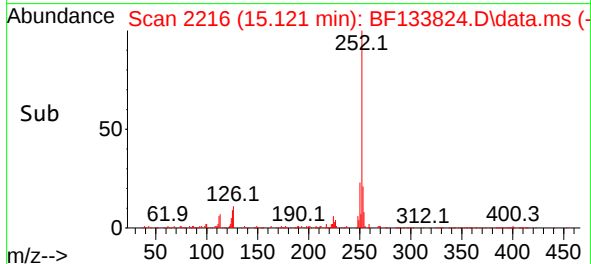
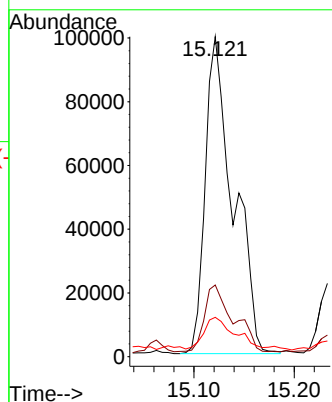
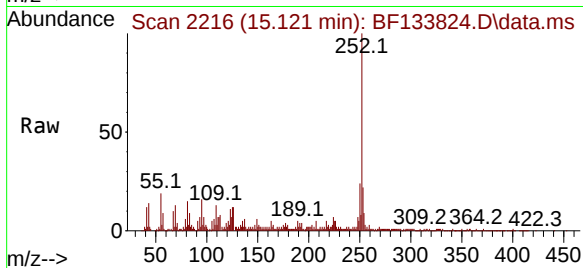
Tgt Ion:252 Resp: 193728

Ion Ratio Lower Upper

252 100

253 22.4 17.0 25.6

125 12.3 7.3 10.9#



#89

Benzo(k)fluoranthene

Concen: 34.589 ng

RT: 15.121 min Scan# 2216

Delta R.T. -0.024 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

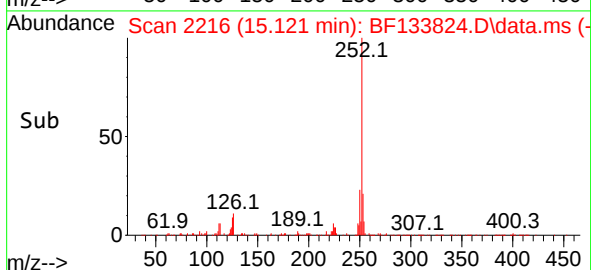
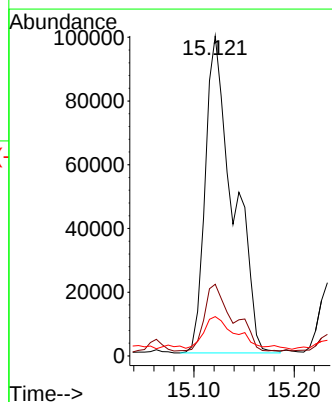
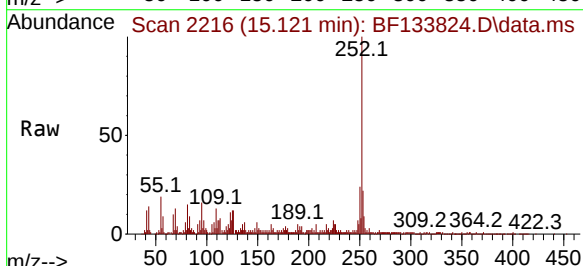
Tgt Ion:252 Resp: 193728

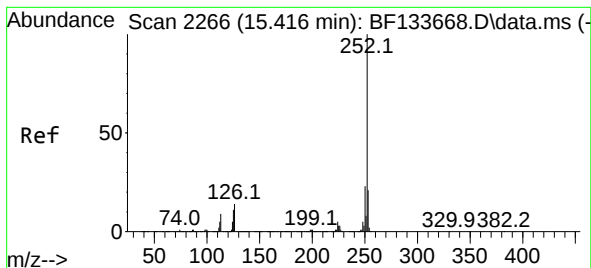
Ion Ratio Lower Upper

252 100

253 22.4 17.0 25.4

125 12.3 7.8 11.6#





#90

Benzo(a)pyrene

Concen: 20.042 ng

RT: 15.504 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

Instrument :

BNA_F

ClientSampleId :

SOIL-001

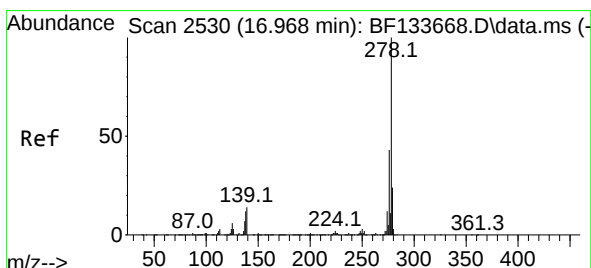
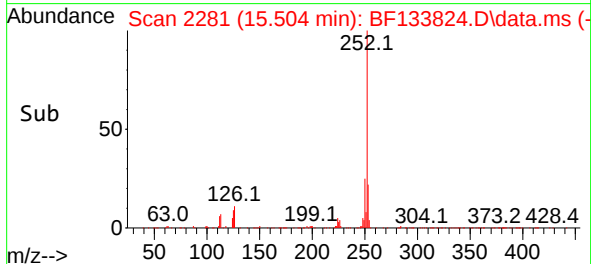
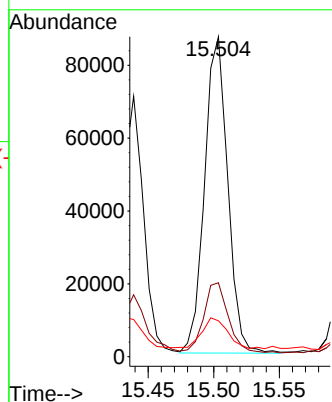
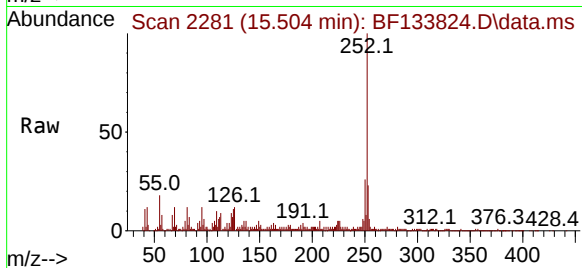
Tgt Ion:252 Resp: 106946

Ion Ratio Lower Upper

252 100

253 23.1 17.1 25.7

125 11.2 8.6 13.0



#91

Dibenzo(a,h)anthracene

Concen: 3.268 ng

RT: 17.133 min Scan# 2558

Delta R.T. -0.006 min

Lab File: BF133824.D

Acq: 17 Jun 2023 00:48

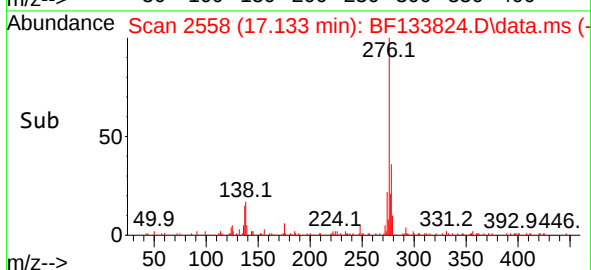
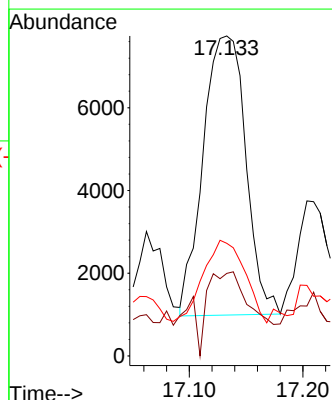
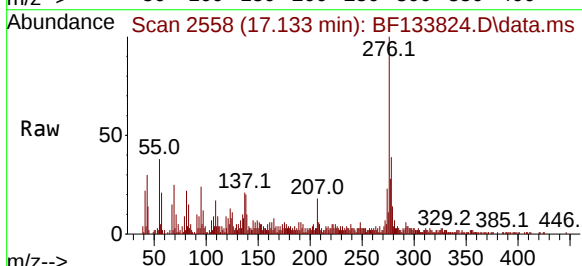
Tgt Ion:278 Resp: 17618

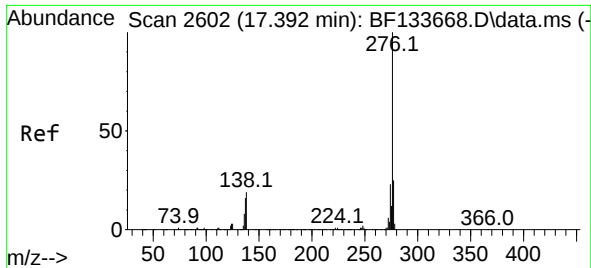
Ion Ratio Lower Upper

278 100

139 25.8 11.4 17.2#

279 35.2 19.0 28.4#





#92
 Benzo(g,h,i)perylene
 Concen: 14.384 ng
 RT: 17.592 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: BF133824.D
 Acq: 17 Jun 2023 00:48

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-001

Tgt Ion:	276	Resp:	76886
Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.8	29.8
138	19.8	15.0	22.4

