

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
 Data File : BF135665.D
 Acq On : 09 Oct 2023 22:43
 Operator : CG\JU
 Sample : 04778-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-1

Quant Time: Oct 10 02:29:12 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 04 17:06:20 2023
 Response via : Initial Calibration

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

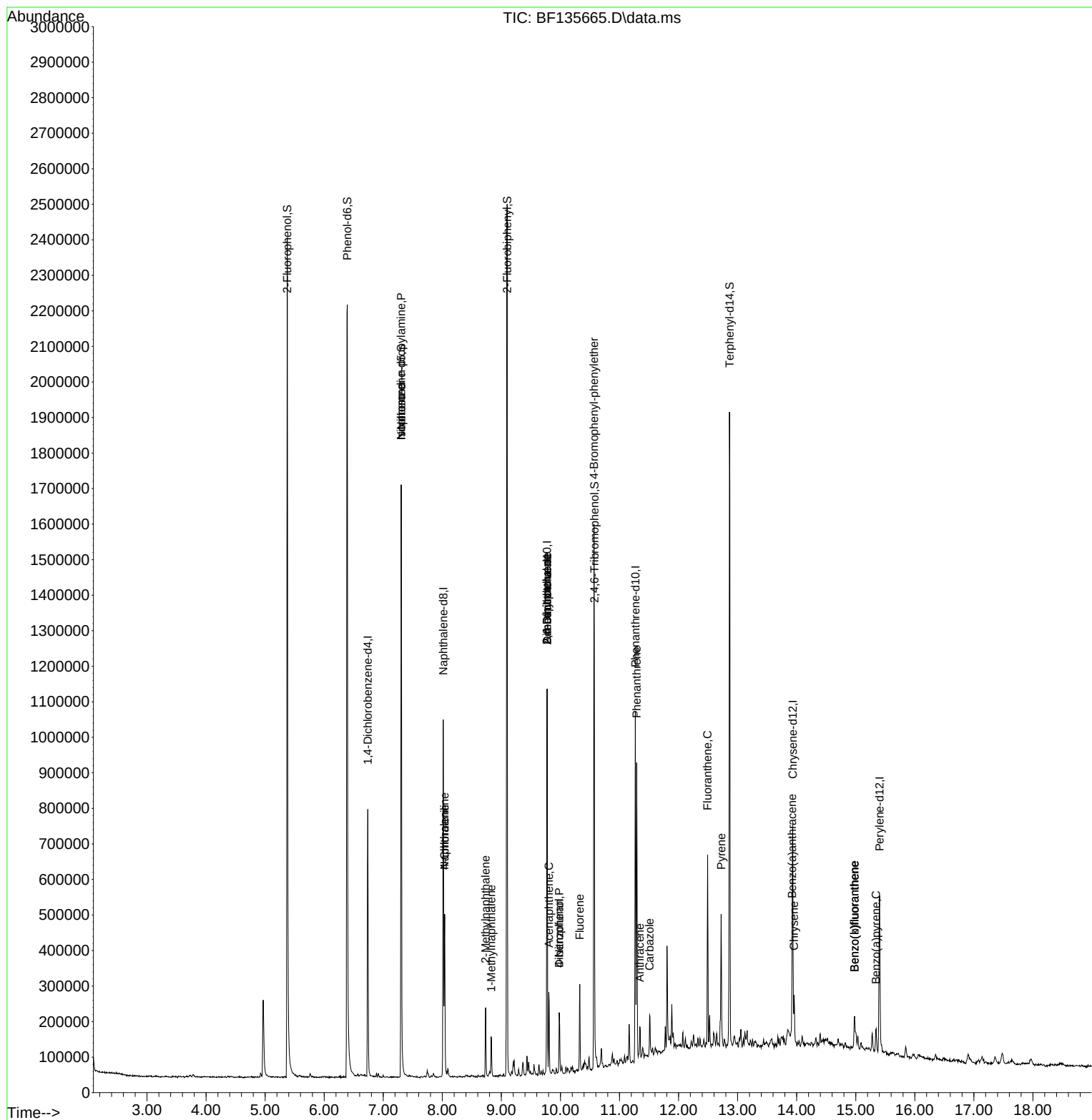
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	112504	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	416997	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	203403	20.000	ng	0.00
64) Phenanthrene-d10	11.269	188	338226	20.000	ng	0.00
76) Chrysene-d12	13.933	240	202522	20.000	ng	0.00
86) Perylene-d12	15.404	264	219103	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	661773	95.671	ng	0.00
7) Phenol-d6	6.392	99	811487	92.261	ng	0.00
23) Nitrobenzene-d5	7.304	82	499676	65.101	ng	0.00
42) 2,4,6-Tribromophenol	10.575	330	180166	89.132	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	828138	61.426	ng	0.00
79) Terphenyl-d14	12.863	244	637244	48.777	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.304	70	67120	12.320	ng	# 80
25) Isophorone	7.304	82	499671	35.453	ng	# 65
31) Naphthalene	8.039	128	192877	9.520	ng	99
33) 4-Chloroaniline	8.039	127	24538	2.760	ng	# 33
37) 2-Methylnaphthalene	8.733	142	49777	3.655	ng	98
38) 1-Methylnaphthalene	8.828	142	32203	2.526	ng	97
50) Dimethylphthalate	9.775	163	39792	2.894	ng	# 1
51) 2,6-Dinitrotoluene	9.775	165	26345	8.745	ng	# 18
52) Acenaphthene	9.804	154	48627	4.367	ng	98
55) Dibenzofuran	9.980	168	65274	3.842	ng	98
56) 4-Nitrophenol	9.980	139	23654	10.525	ng	# 5
57) 2,4-Dinitrotoluene	9.775	165	26345	6.985	ng	# 20
58) Fluorene	10.327	166	63984	4.898	ng	98
67) 4-Bromophenyl-phenylether	10.569	248	11150	3.315	ng	# 1
71) Phenanthrene	11.292	178	290573	18.165	ng	100
72) Anthracene	11.345	178	36054	2.193	ng	99
73) Carbazole	11.510	167	41073	2.744	ng	98
75) Fluoranthene	12.492	202	202629	12.157	ng	97
78) Pyrene	12.721	202	149931	7.776	ng	97
81) Benzo(a)anthracene	13.921	228	48049	3.674	ng	98
83) Chrysene	13.957	228	51086	3.929	ng	98
88) Benzo(b)fluoranthene	14.980	252	71362	6.017	ng	# 92
89) Benzo(k)fluoranthene	14.980	252	71362	6.091	ng	# 93
90) Benzo(a)pyrene	15.345	252	30580	2.704	ng	98

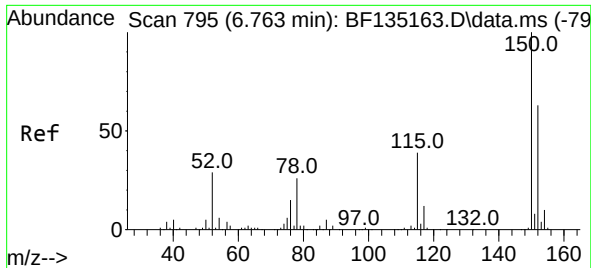
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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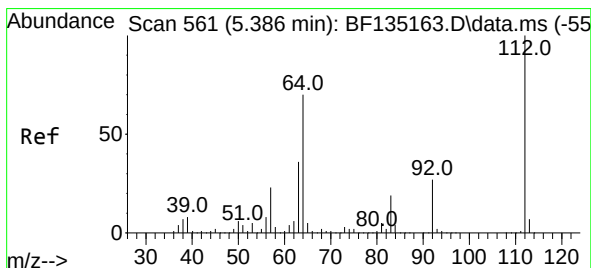
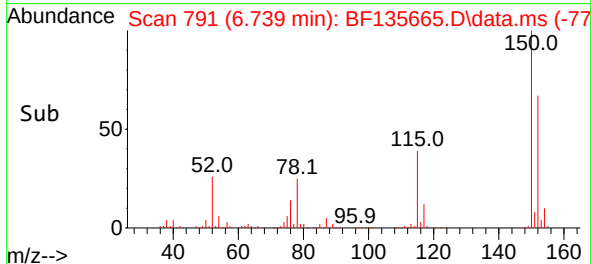
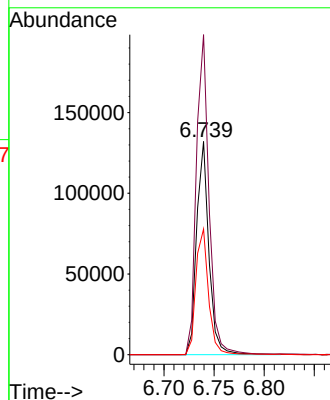
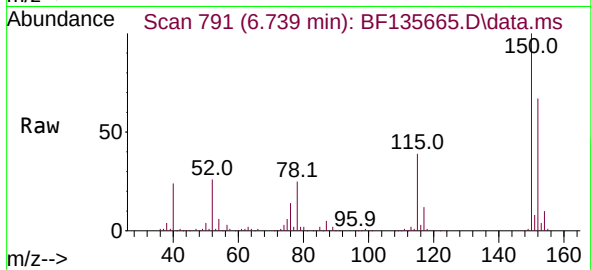




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

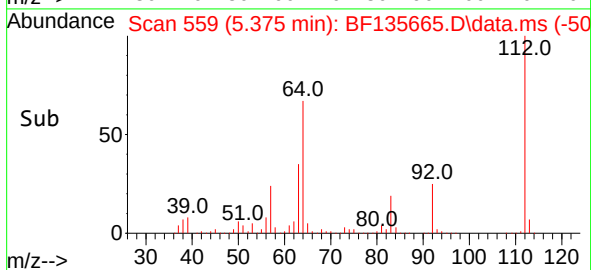
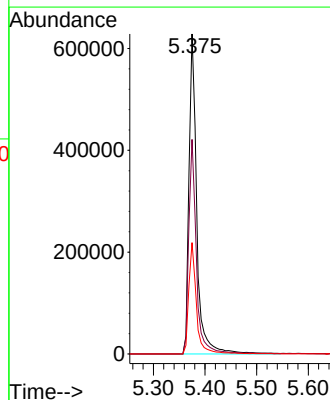
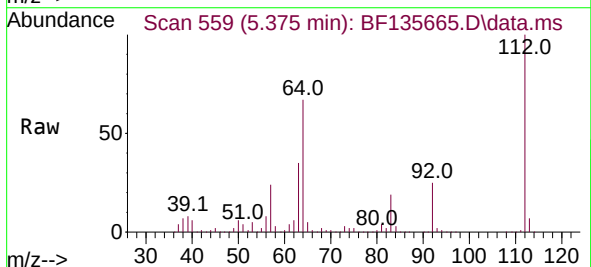
Instrument :
BNA_F
ClientSampleId :
SOIL-1

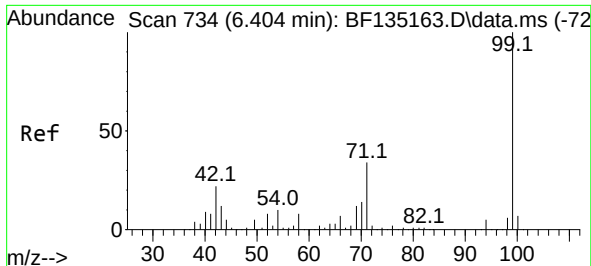
Tgt Ion:152 Resp: 112504
Ion Ratio Lower Upper
152 100
150 150.1 127.8 191.6
115 58.9 49.8 74.8



#5
2-Fluorophenol
Concen: 95.671 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion:112 Resp: 661773
Ion Ratio Lower Upper
112 100
64 67.1 55.9 83.9
63 34.8 29.0 43.6





#7

Phenol-d6

Concen: 92.261 ng

RT: 6.392 min Scan# 71

Delta R.T. 0.006 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

Instrument :

BNA_F

ClientSampleId :

SOIL-1

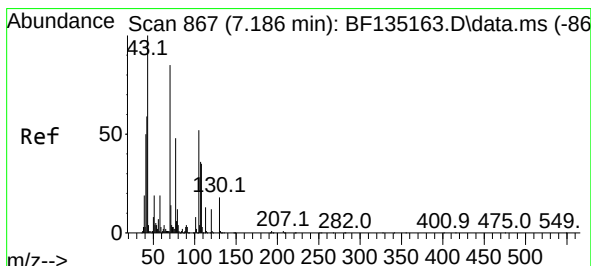
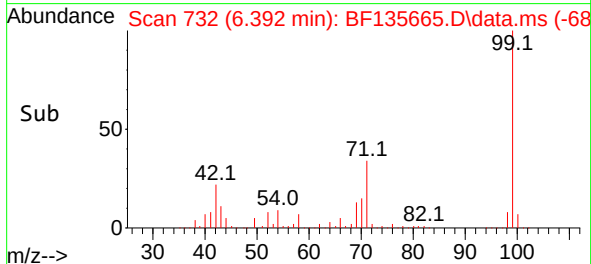
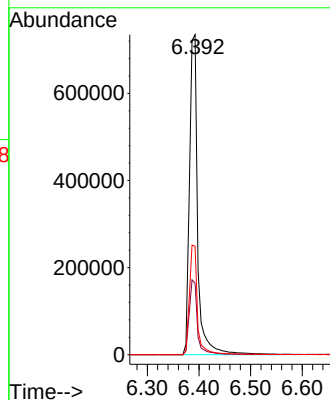
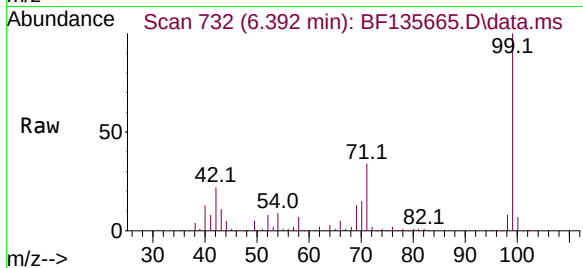
Tgt Ion: 99 Resp: 811487

Ion Ratio Lower Upper

99 100

42 22.3 17.9 26.9

71 33.9 27.0 40.6



#19

n-Nitroso-di-n-propylamine

Concen: 12.320 ng

RT: 7.304 min Scan# 887

Delta R.T. 0.147 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

Tgt Ion: 70 Resp: 67120

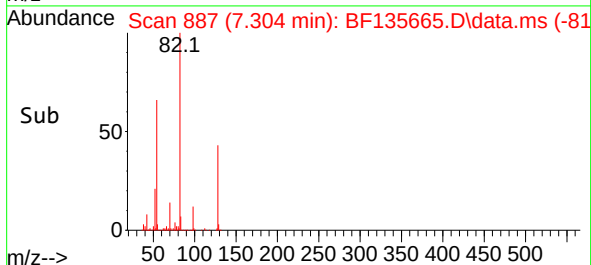
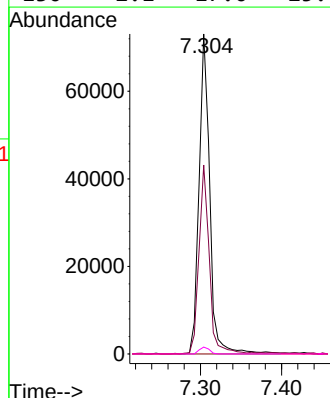
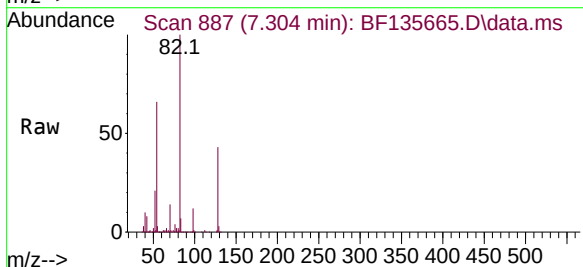
Ion Ratio Lower Upper

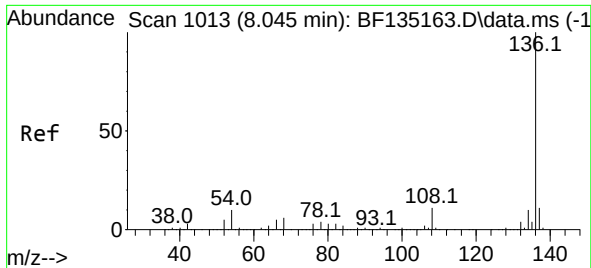
70 100

42 59.0 55.4 83.0

101 0.0 7.7 11.5#

130 2.1 17.0 25.6#

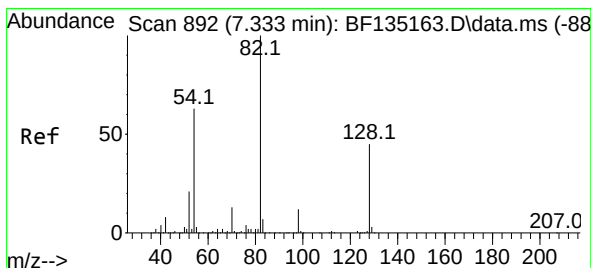
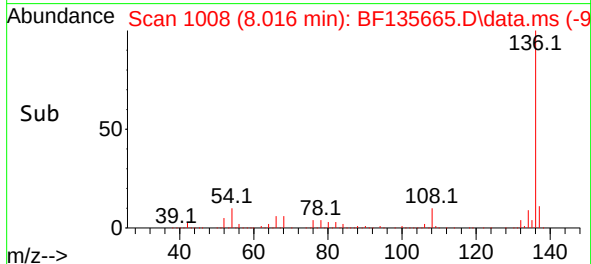
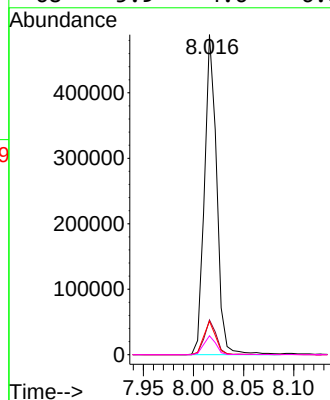
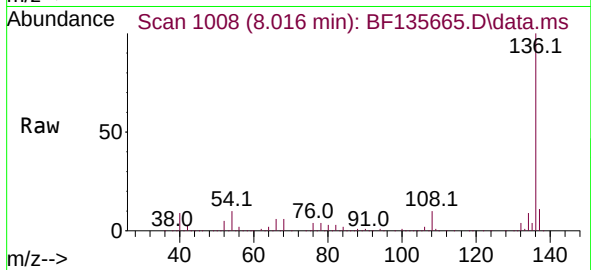




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

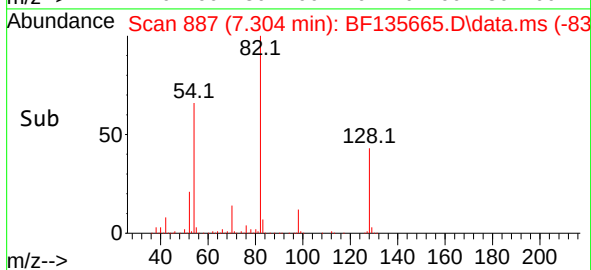
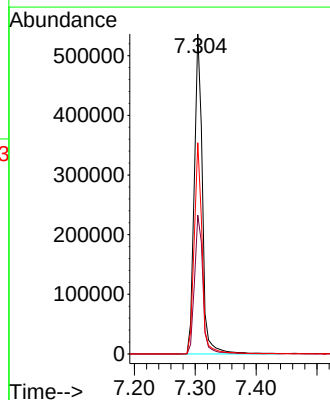
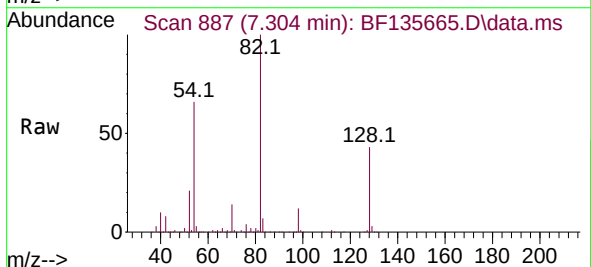
Instrument :
BNA_F
ClientSampleId :
SOIL-1

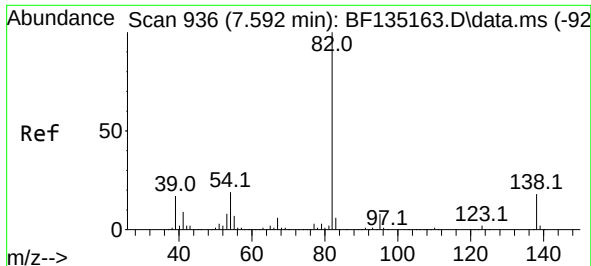
Tgt Ion:	136	Resp:	416997
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	10.5	7.7	11.5
68	5.9	4.6	6.8



#23
Nitrobenzene-d5
Concen: 65.101 ng
RT: 7.304 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion:	82	Resp:	499676
Ion	Ratio	Lower	Upper
82	100		
128	43.4	35.8	53.6
54	66.0	50.6	76.0

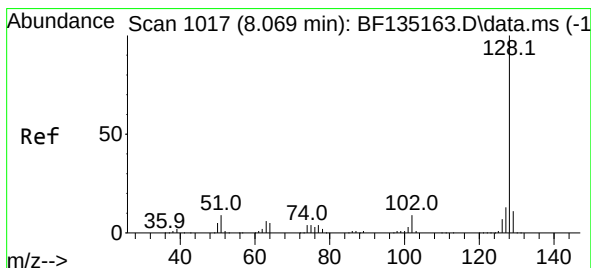
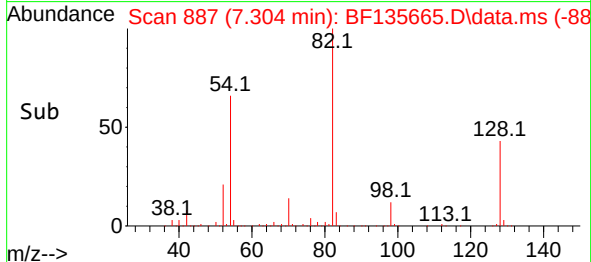
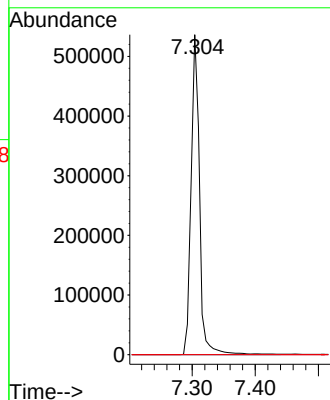
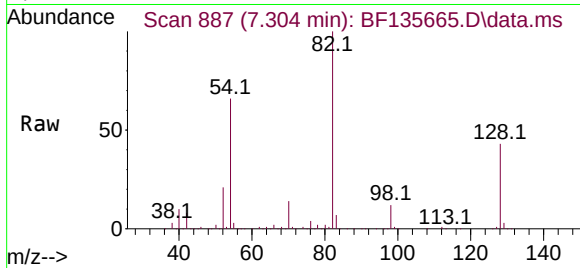




#25
Isophorone
Concen: 35.453 ng
RT: 7.304 min Scan# 81
Delta R.T. -0.259 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

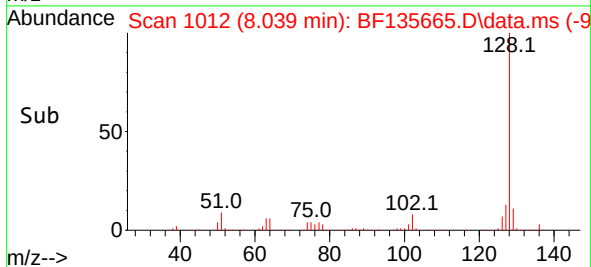
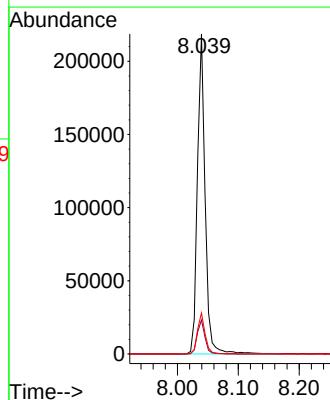
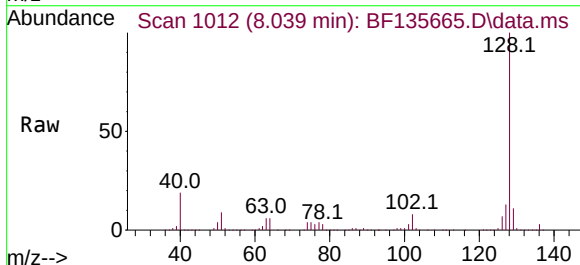
Instrument :
BNA_F
ClientSampleId :
SOIL-1

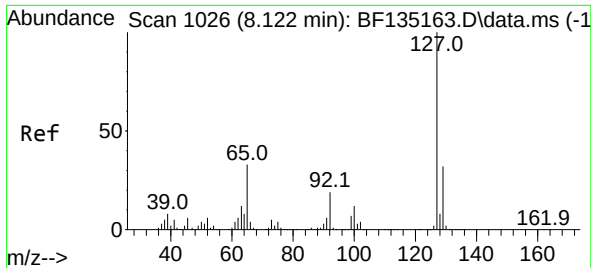
Tgt Ion: 82 Resp: 499671
Ion Ratio Lower Upper
82 100
95 0.0 6.0 9.0#
138 0.0 14.5 21.7#



#31
Naphthalene
Concen: 9.520 ng
RT: 8.039 min Scan# 1012
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion: 128 Resp: 192877
Ion Ratio Lower Upper
128 100
129 10.6 8.7 13.1
127 12.8 10.7 16.1

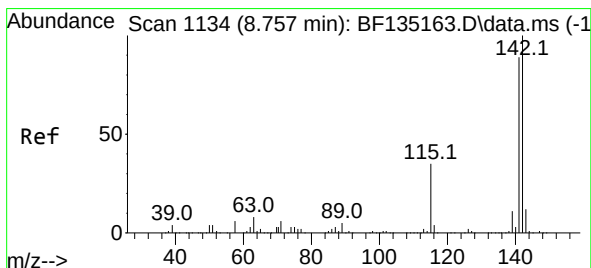
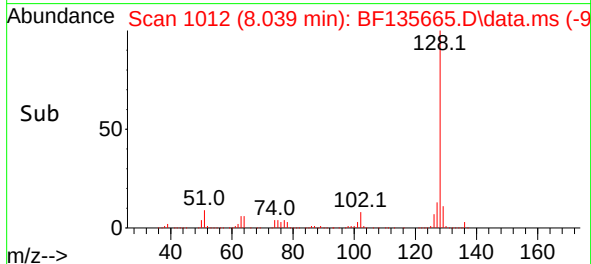
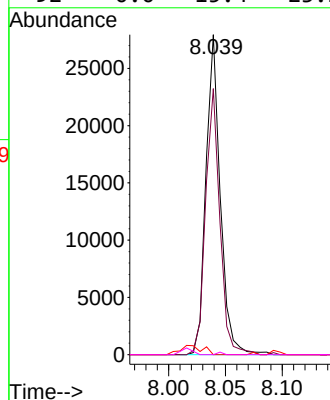
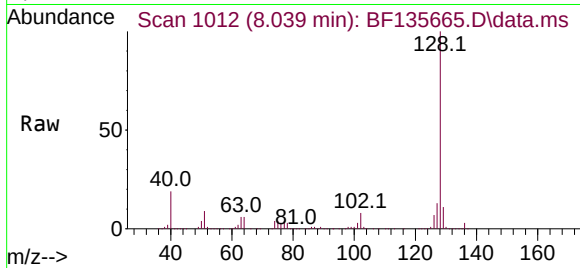




#33
4-Chloroaniline
Concen: 2.760 ng
RT: 8.039 min Scan# 110
Delta R.T. -0.059 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

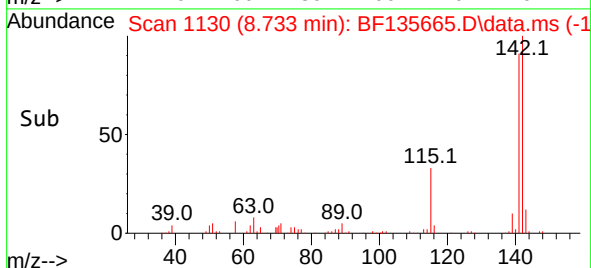
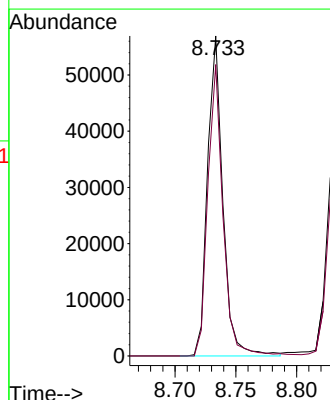
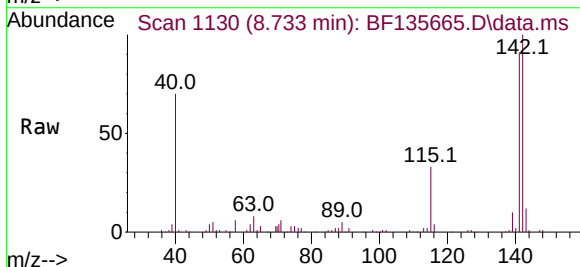
Instrument :
BNA_F
ClientSampleId :
SOIL-1

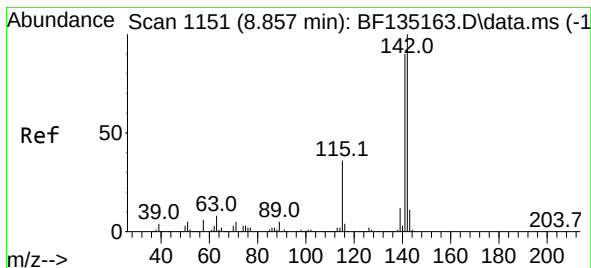
Tgt Ion:127	Resp:	24538
Ion Ratio	Lower	Upper
127	100	
129	83.1	25.8 38.8#
65	0.0	26.6 39.8#
92	0.0	15.4 23.2#



#37
2-Methylnaphthalene
Concen: 3.655 ng
RT: 8.733 min Scan# 1130
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion:142	Resp:	49777
Ion Ratio	Lower	Upper
142	100	
141	91.1	71.0 106.6





#38

1-Methylnaphthalene

Concen: 2.526 ng

RT: 8.828 min Scan# 1146

Delta R.T. 0.000 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

Instrument :

BNA_F

ClientSampleId :

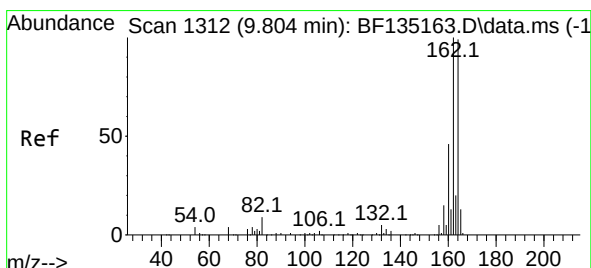
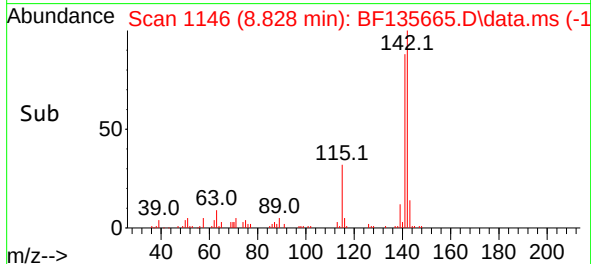
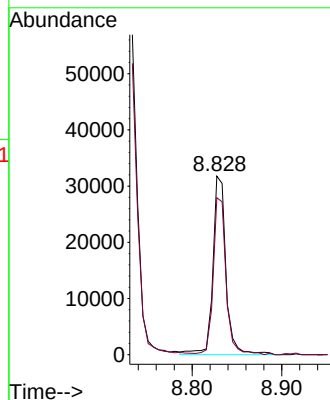
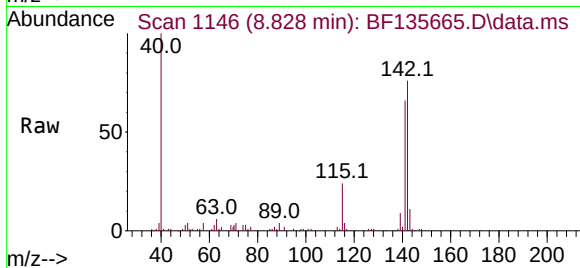
SOIL-1

Tgt Ion:142 Resp: 32203

Ion Ratio Lower Upper

142 100

141 87.9 72.4 108.6



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.775 min Scan# 1307

Delta R.T. 0.000 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

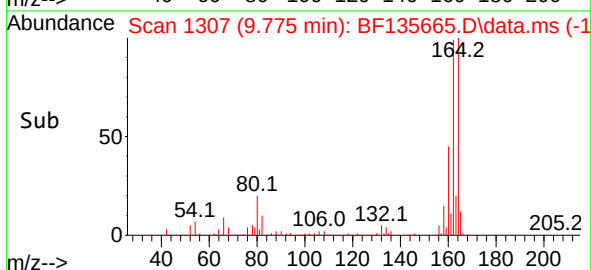
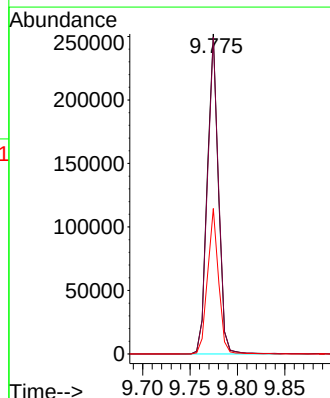
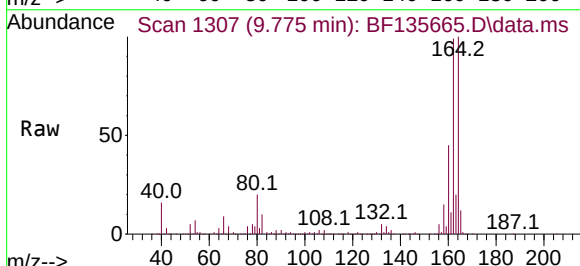
Tgt Ion:164 Resp: 203403

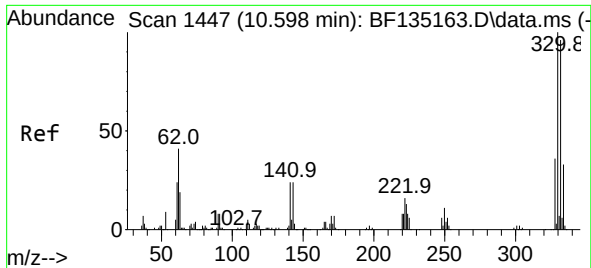
Ion Ratio Lower Upper

164 100

162 99.0 81.0 121.4

160 45.5 37.0 55.4

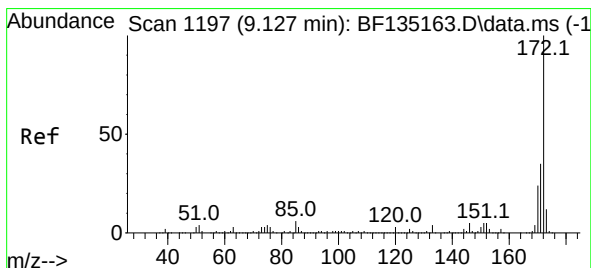
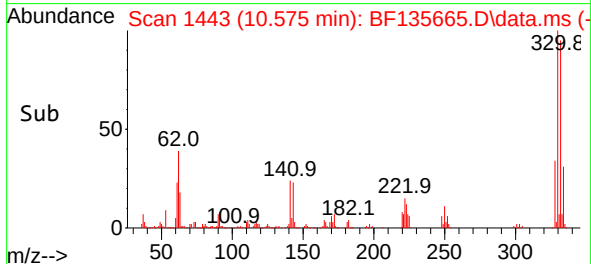
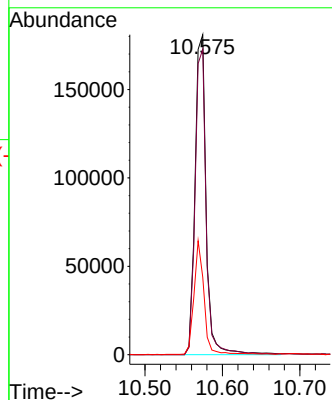
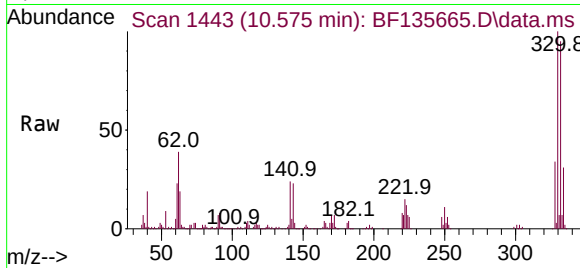




#42
2,4,6-Tribromophenol
Concen: 89.132 ng
RT: 10.575 min Scan# 1443
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

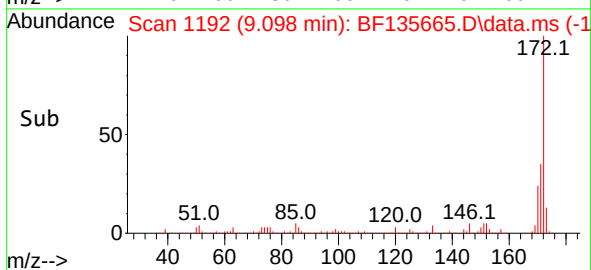
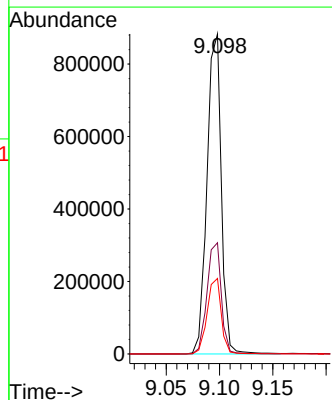
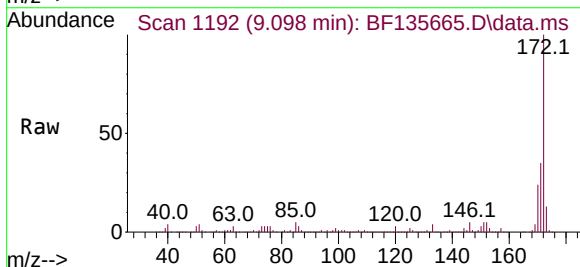
Instrument :
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SOIL-1

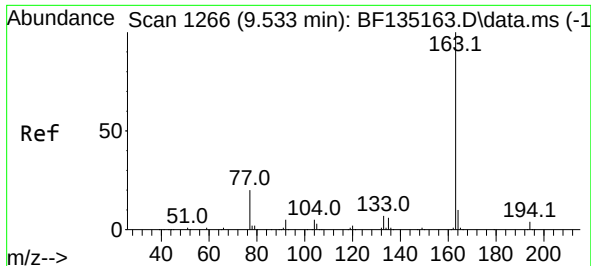
Tgt Ion:330 Resp: 180166
Ion Ratio Lower Upper
330 100
332 95.2 77.3 115.9
141 32.9 25.8 38.8



#45
2-Fluorobiphenyl
Concen: 61.426 ng
RT: 9.098 min Scan# 1192
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion:172 Resp: 828138
Ion Ratio Lower Upper
172 100
171 34.8 28.4 42.6
170 23.6 19.0 28.4

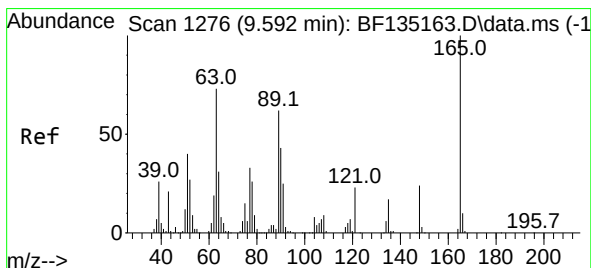
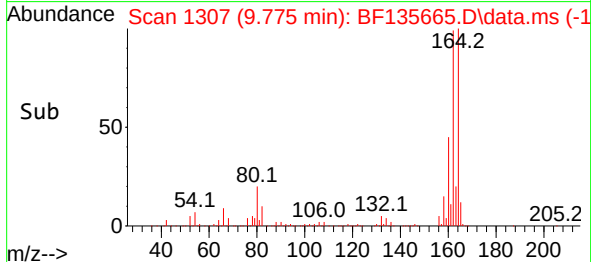
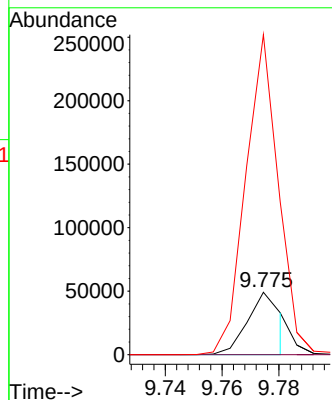
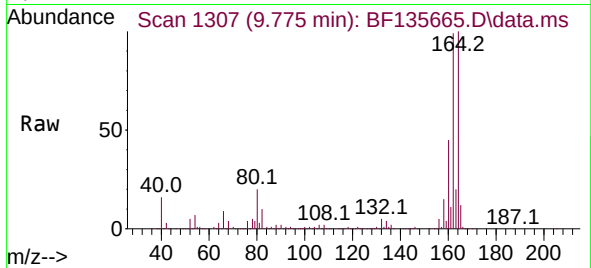




#50
Dimethylphthalate
Concen: 2.894 ng
RT: 9.775 min Scan# 11
Delta R.T. 0.271 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

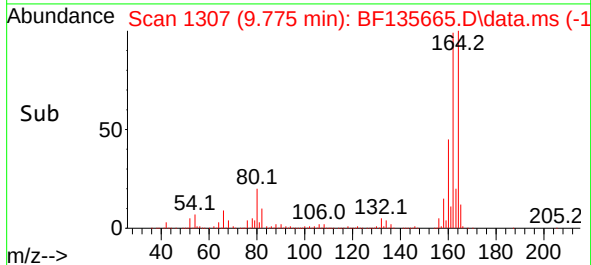
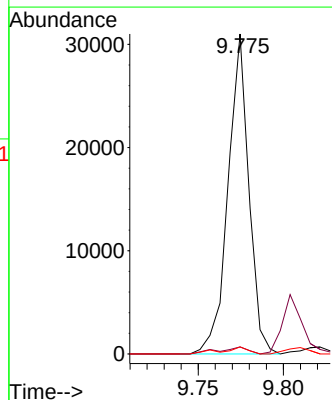
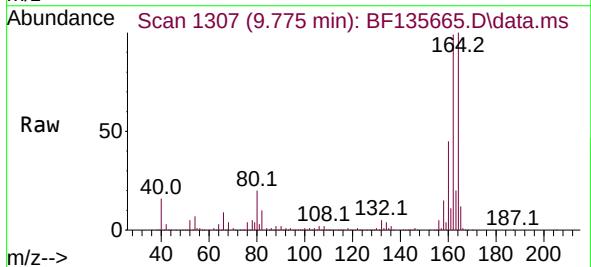
Instrument :
BNA_F
ClientSampleId :
SOIL-1

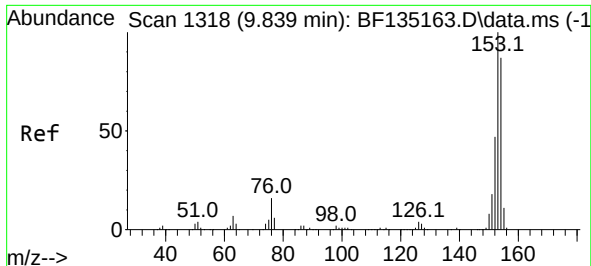
Tgt Ion:163 Resp: 39792
Ion Ratio Lower Upper
163 100
194 0.0 3.1 4.7#
164 512.5 8.1 12.1#



#51
2,6-Dinitrotoluene
Concen: 8.745 ng
RT: 9.775 min Scan# 1307
Delta R.T. 0.200 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion:165 Resp: 26345
Ion Ratio Lower Upper
165 100
63 2.2 59.4 89.2#
89 2.2 49.8 74.8#

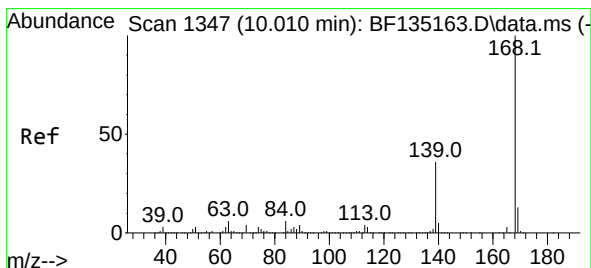
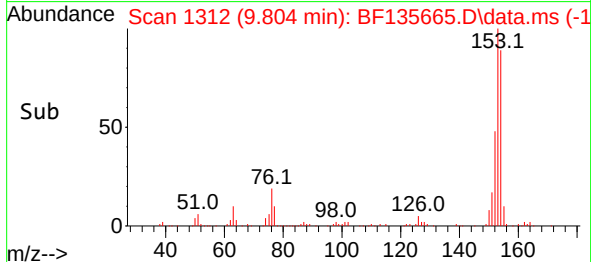
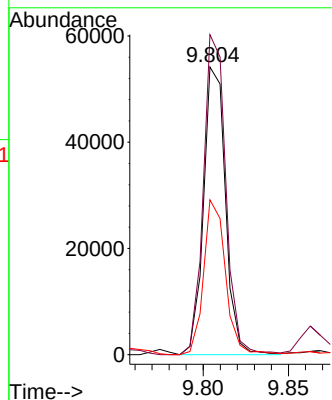
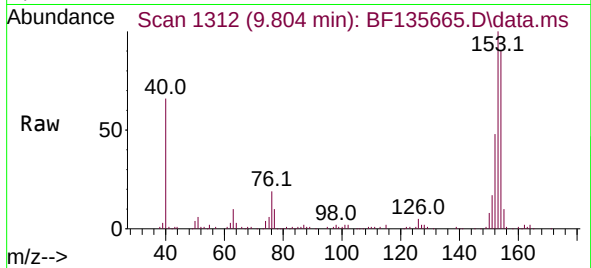




#52
Acenaphthene
Concen: 4.367 ng
RT: 9.804 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

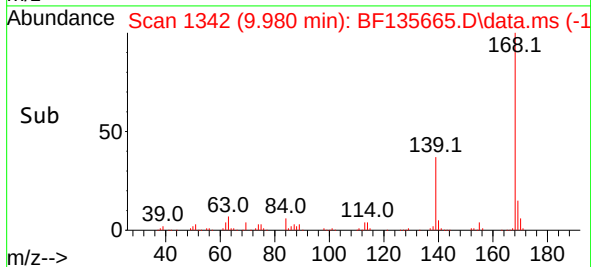
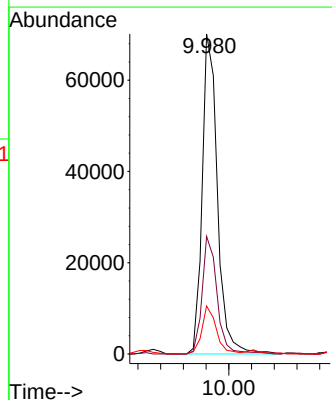
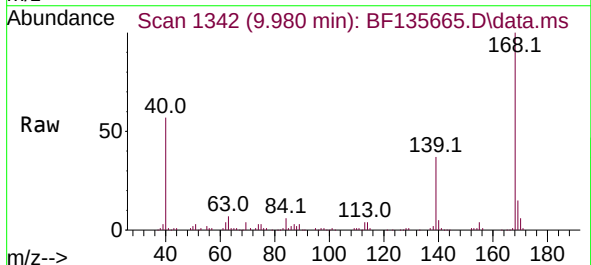
Instrument :
BNA_F
ClientSampleId :
SOIL-1

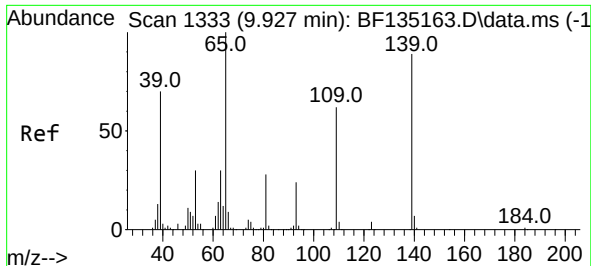
Tgt Ion:154 Resp: 48627
Ion Ratio Lower Upper
154 100
153 111.2 92.1 138.1
152 53.8 43.1 64.7



#55
Dibenzofuran
Concen: 3.842 ng
RT: 9.980 min Scan# 1342
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion:168 Resp: 65274
Ion Ratio Lower Upper
168 100
139 36.7 29.0 43.6
169 15.0 10.4 15.6

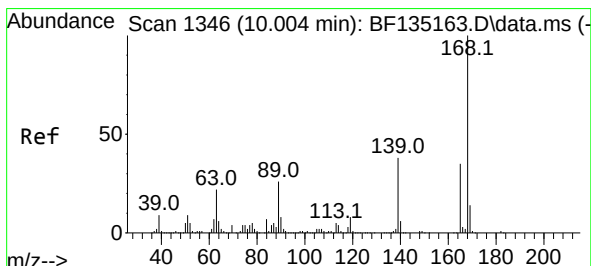
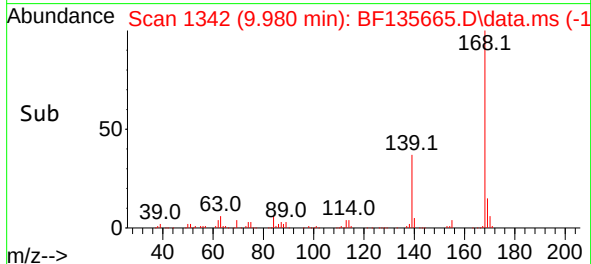
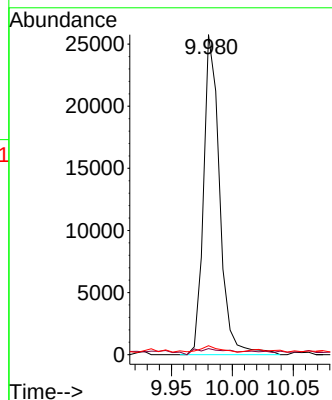
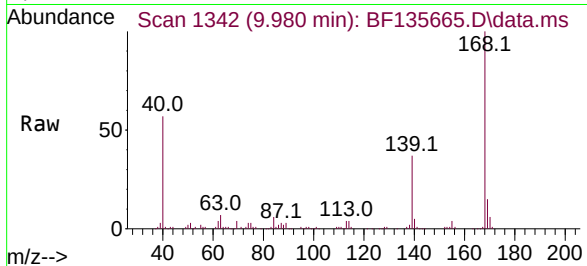




#56
4-Nitrophenol
Concen: 10.525 ng
RT: 9.980 min Scan# 11
Delta R.T. 0.053 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

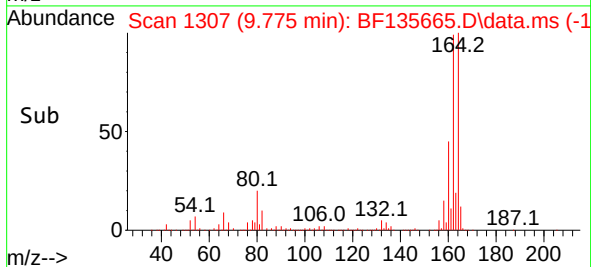
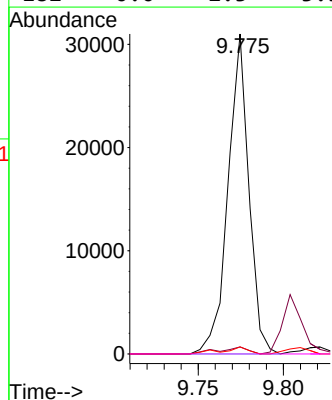
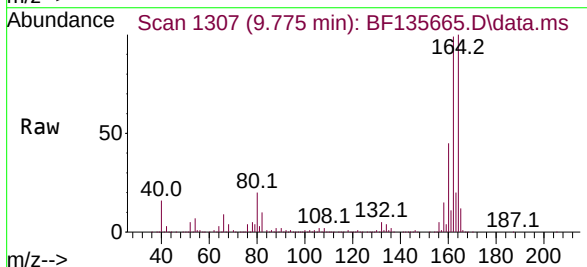
Instrument :
BNA_F
ClientSampleId :
SOIL-1

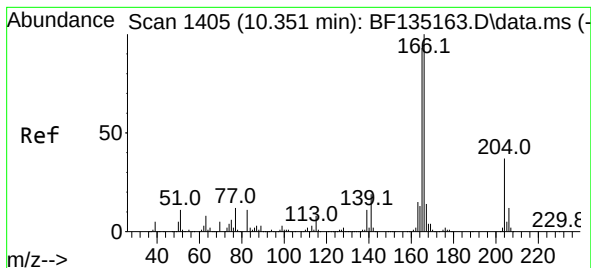
Tgt Ion:139 Resp: 23654
Ion Ratio Lower Upper
139 100
109 1.9 49.8 89.8#
65 2.8 92.7 132.7#



#57
2,4-Dinitrotoluene
Concen: 6.985 ng
RT: 9.775 min Scan# 1307
Delta R.T. -0.212 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion:165 Resp: 26345
Ion Ratio Lower Upper
165 100
63 2.2 50.1 75.1#
89 2.2 59.3 88.9#
182 0.0 2.3 3.5#





#58

Fluorene

Concen: 4.898 ng

RT: 10.327 min Scan# 1401

Delta R.T. 0.000 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

Instrument :

BNA_F

ClientSampleId :

SOIL-1

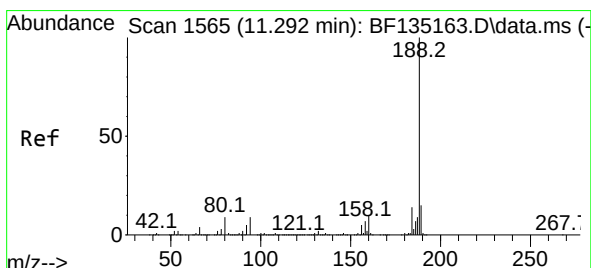
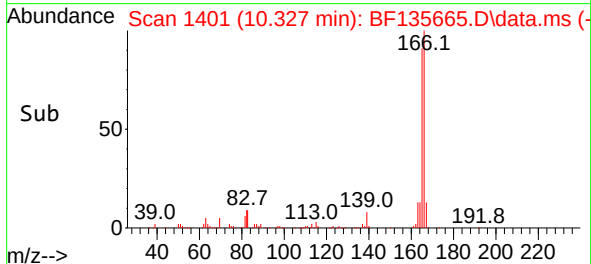
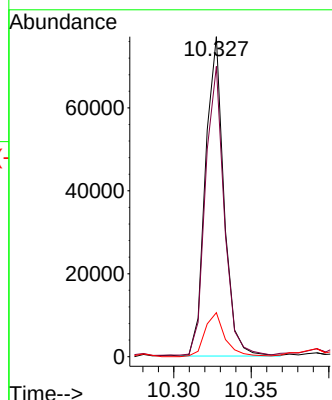
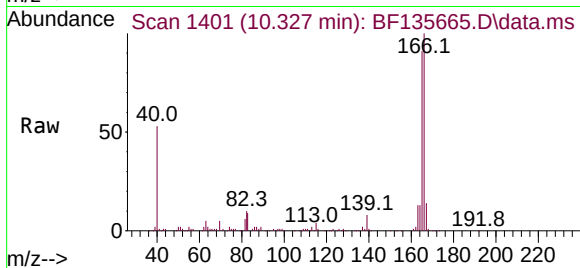
Tgt Ion:166 Resp: 63984

Ion Ratio Lower Upper

166 100

165 90.7 74.3 111.5

167 13.7 10.9 16.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.269 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

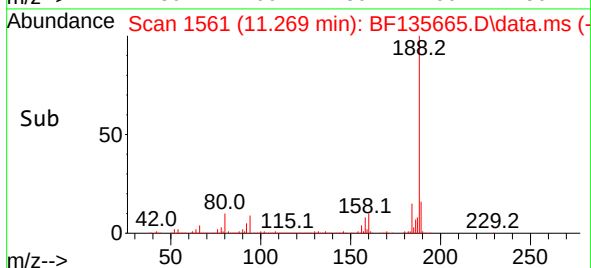
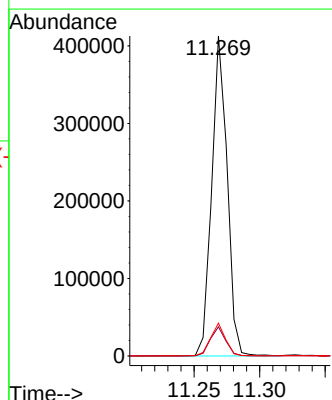
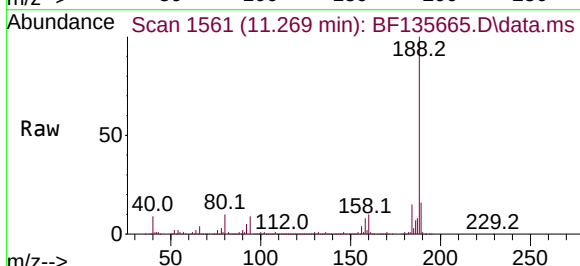
Tgt Ion:188 Resp: 338226

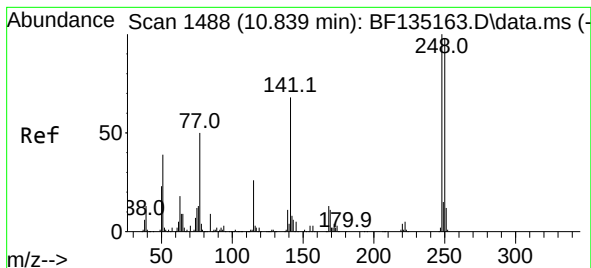
Ion Ratio Lower Upper

188 100

94 9.1 7.0 10.6

80 10.2 7.5 11.3

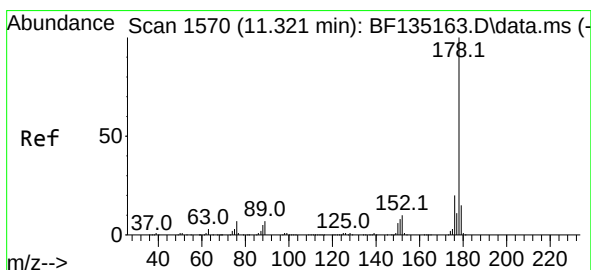
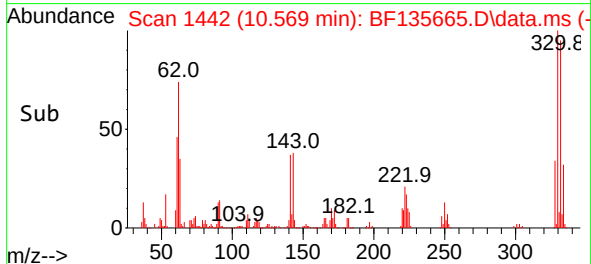
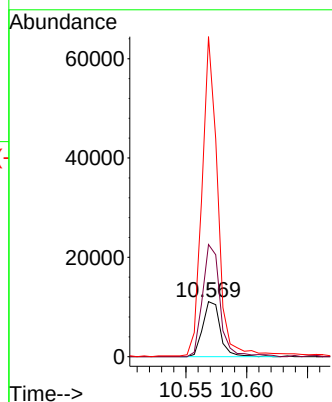
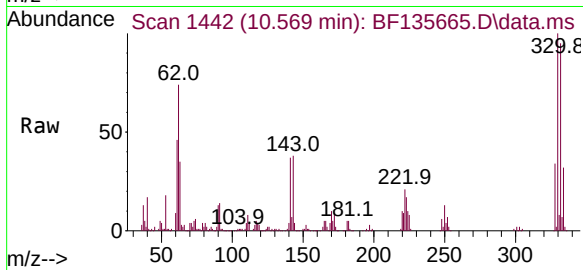




#67
4-Bromophenyl-phenylether
Concen: 3.315 ng
RT: 10.569 min Scan# 1488
Delta R.T. -0.241 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

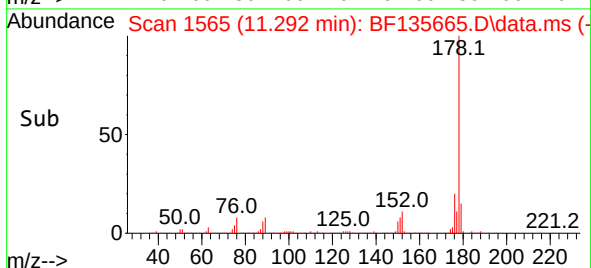
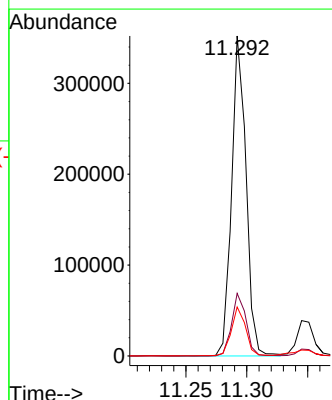
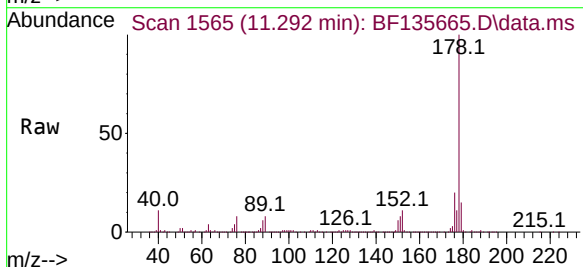
Instrument :
BNA_F
ClientSampleId :
SOIL-1

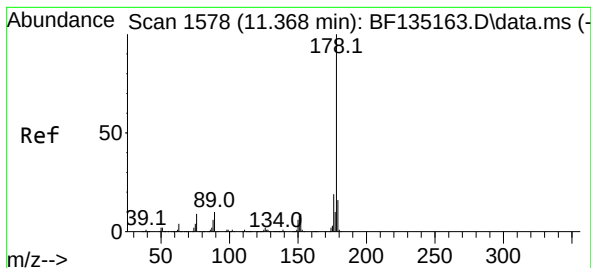
Tgt Ion:248 Resp: 11150
Ion Ratio Lower Upper
248 100
250 203.8 78.6 117.8#
141 581.3 54.2 81.2#



#71
Phenanthrene
Concen: 18.165 ng
RT: 11.292 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion:178 Resp: 290573
Ion Ratio Lower Upper
178 100
176 19.5 15.6 23.4
179 15.3 12.0 18.0





#72

Anthracene

Concen: 2.193 ng

RT: 11.345 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

Instrument :

BNA_F

ClientSampleId :

SOIL-1

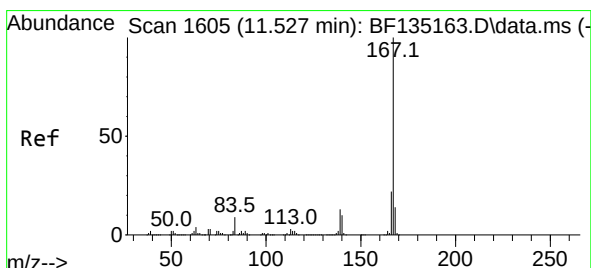
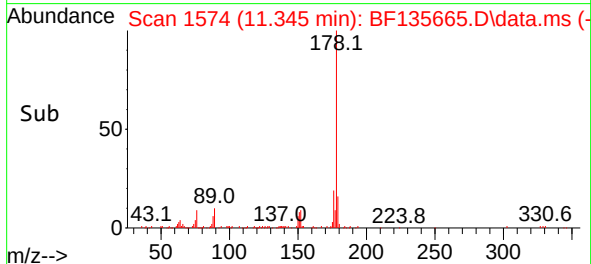
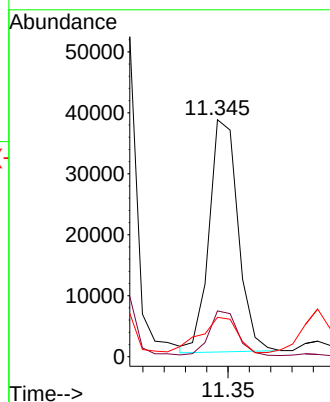
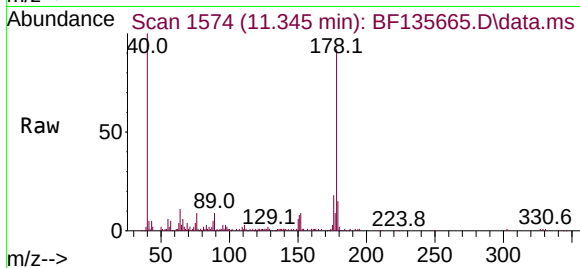
Tgt Ion:178 Resp: 36054

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 16.6 12.6 19.0



#73

Carbazole

Concen: 2.744 ng

RT: 11.510 min Scan# 1602

Delta R.T. 0.000 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

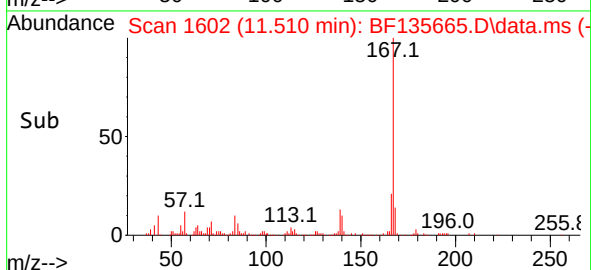
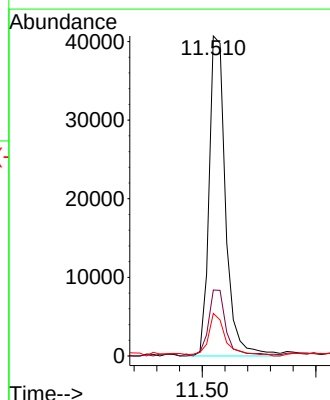
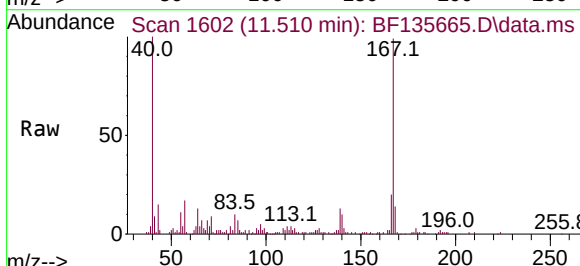
Tgt Ion:167 Resp: 41073

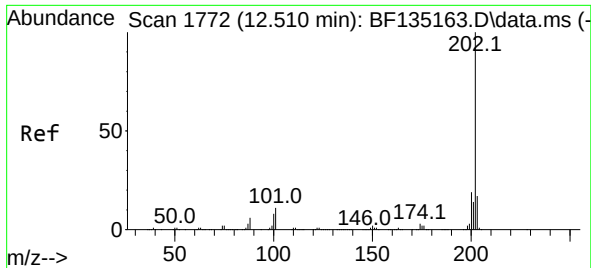
Ion Ratio Lower Upper

167 100

166 20.6 17.4 26.0

139 13.3 10.6 15.8

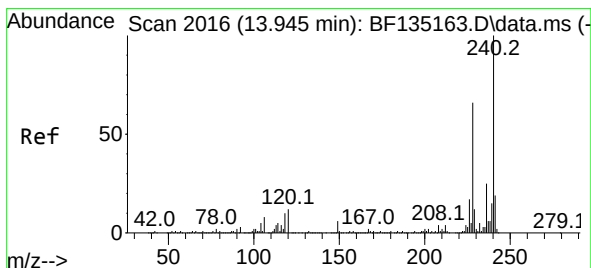
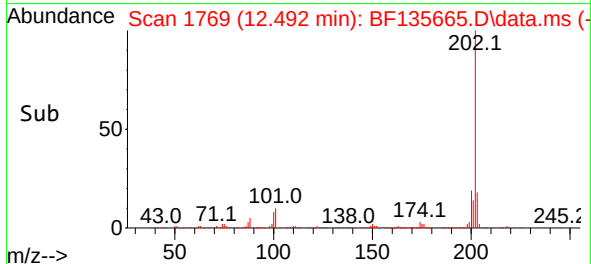
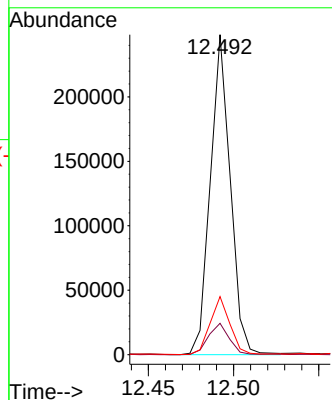
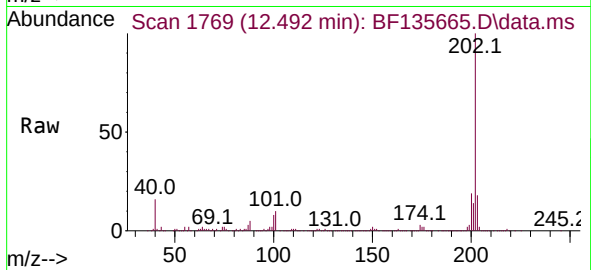




#75
Fluoranthene
Concen: 12.157 ng
RT: 12.492 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

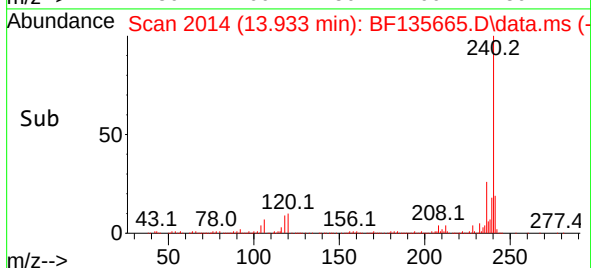
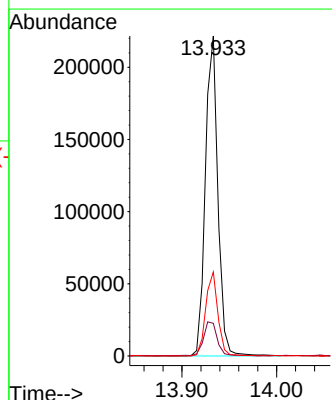
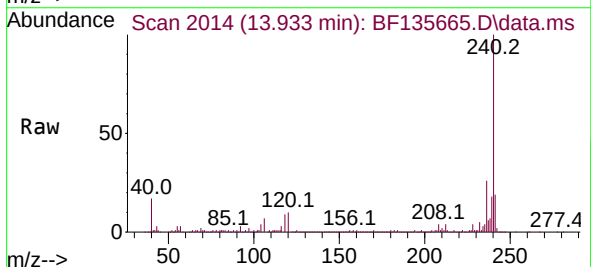
Instrument :
BNA_F
ClientSampleId :
SOIL-1

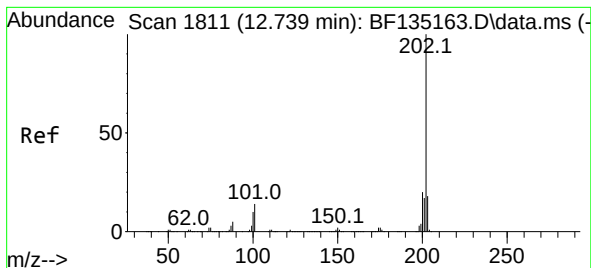
Tgt Ion:202 Resp: 202629
Ion Ratio Lower Upper
202 100
101 9.8 0.0 31.3
203 18.2 0.0 37.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.933 min Scan# 2014
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion:240 Resp: 202522
Ion Ratio Lower Upper
240 100
120 10.2 9.4 14.2
236 26.3 19.8 29.8





#78

Pyrene

Concen: 7.776 ng

RT: 12.721 min Scan# 1808

Delta R.T. 0.006 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

Instrument :

BNA_F

ClientSampleId :

SOIL-1

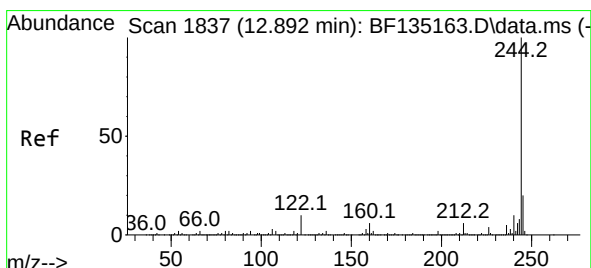
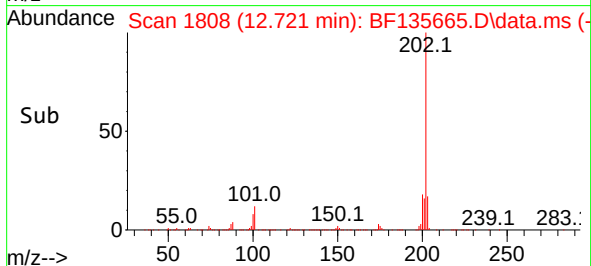
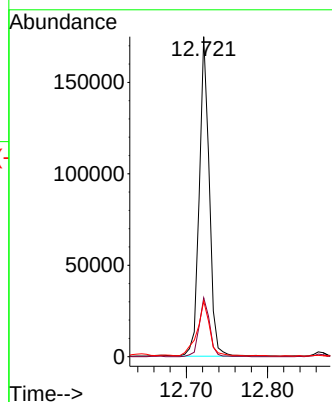
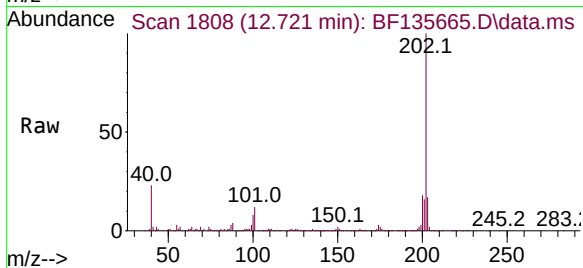
Tgt Ion:202 Resp: 149931

Ion Ratio Lower Upper

202 100

200 18.4 16.2 24.2

203 17.4 14.2 21.4



#79

Terphenyl-d14

Concen: 48.777 ng

RT: 12.863 min Scan# 1832

Delta R.T. 0.000 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

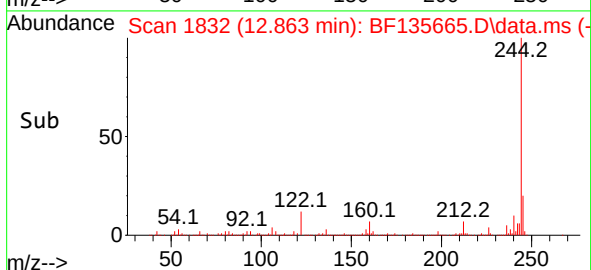
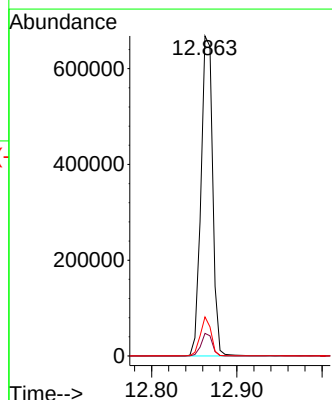
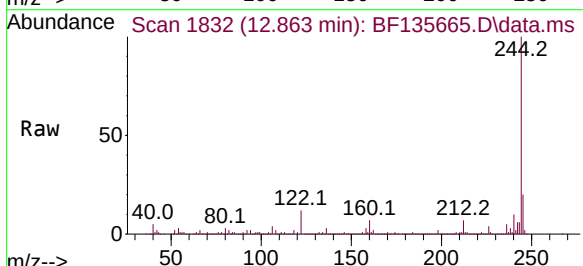
Tgt Ion:244 Resp: 637244

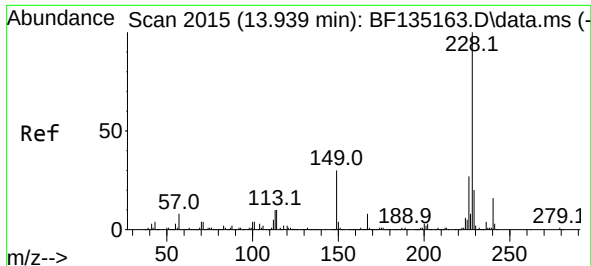
Ion Ratio Lower Upper

244 100

212 7.0 5.1 7.7

122 12.2 7.9 11.9#

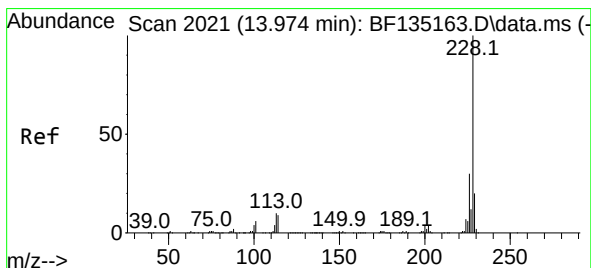
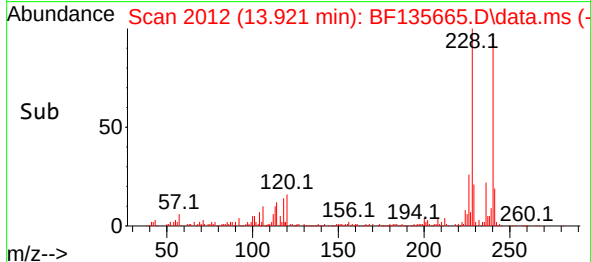
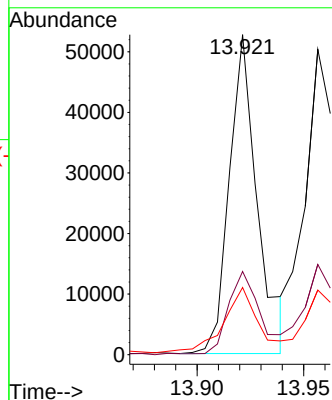
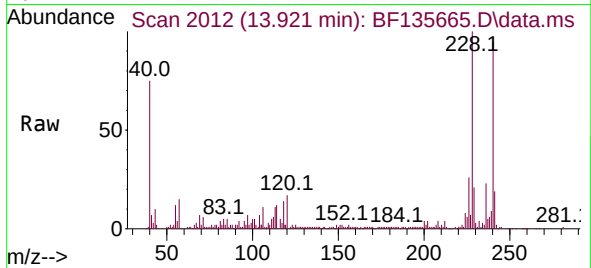




#81
Benzo(a)anthracene
Concen: 3.674 ng
RT: 13.921 min Scan# 2012
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

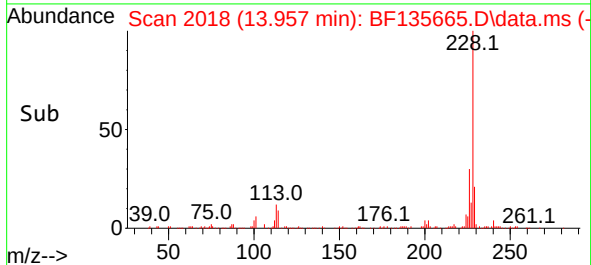
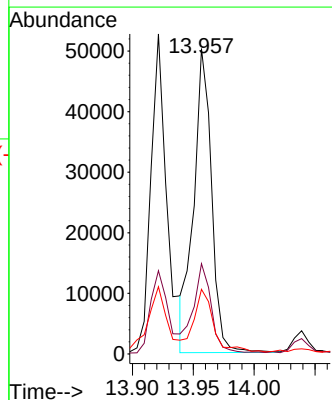
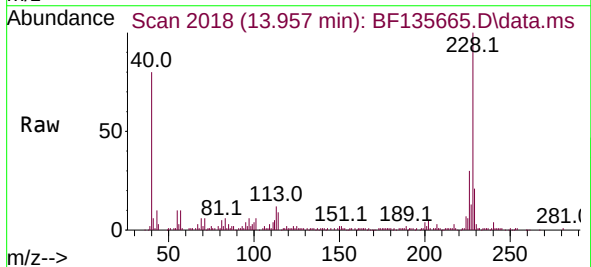
Instrument :
BNA_F
ClientSampleId :
SOIL-1

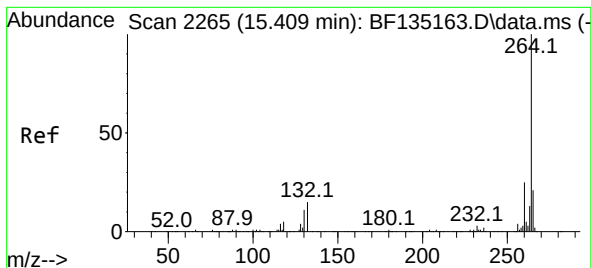
Tgt Ion:228 Resp: 48049
Ion Ratio Lower Upper
228 100
226 26.0 21.7 32.5
229 21.0 15.8 23.8



#83
Chrysene
Concen: 3.929 ng
RT: 13.957 min Scan# 2018
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion:228 Resp: 51086
Ion Ratio Lower Upper
228 100
226 29.6 24.3 36.5
229 21.2 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.404 min Scan# 2191

Delta R.T. 0.018 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

Instrument :

BNA_F

ClientSampleId :

SOIL-1

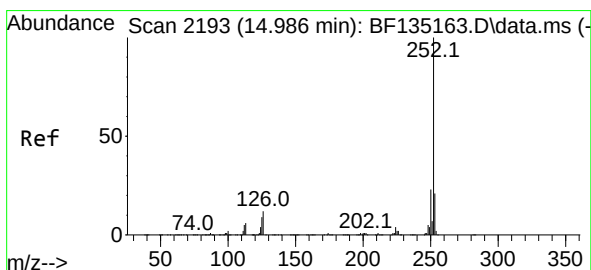
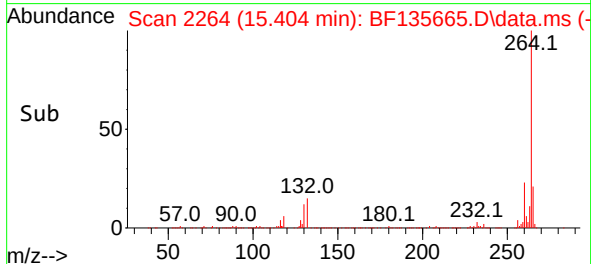
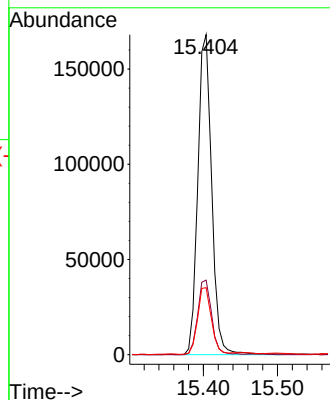
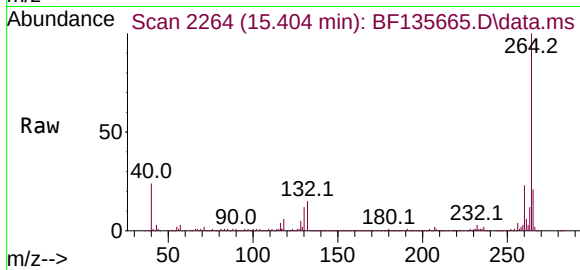
Tgt Ion:264 Resp: 219103

Ion Ratio Lower Upper

264 100

260 23.3 19.8 29.6

265 20.9 17.0 25.4



#88

Benzo(b)fluoranthene

Concen: 6.017 ng

RT: 14.980 min Scan# 2192

Delta R.T. 0.018 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

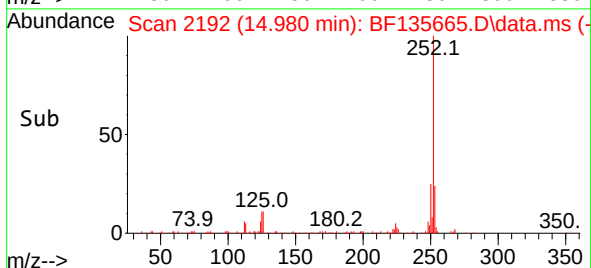
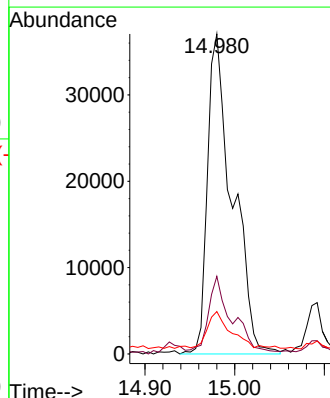
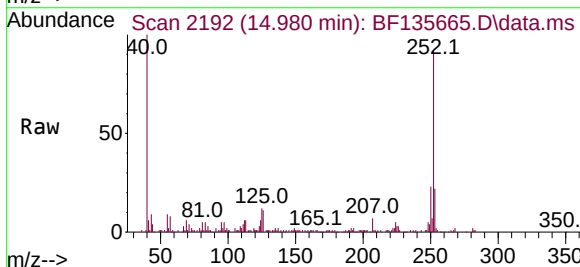
Tgt Ion:252 Resp: 71362

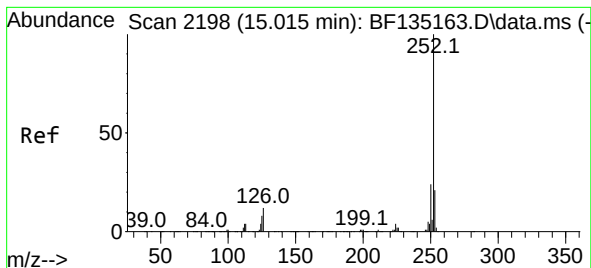
Ion Ratio Lower Upper

252 100

253 24.2 17.2 25.8

125 13.3 7.1 10.7#





#89

Benzo(k)fluoranthene

Concen: 6.091 ng

RT: 14.980 min Scan# 2198

Delta R.T. -0.012 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

Instrument :

BNA_F

ClientSampleId :

SOIL-1

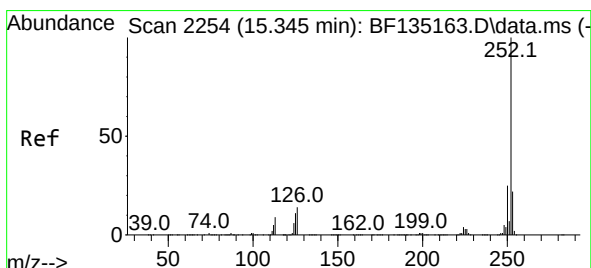
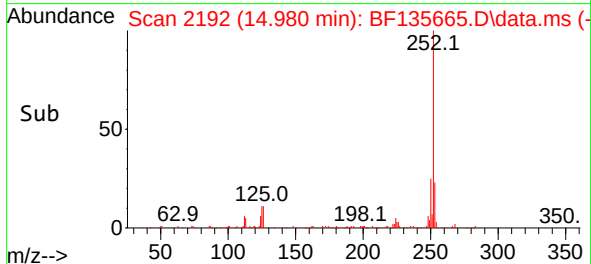
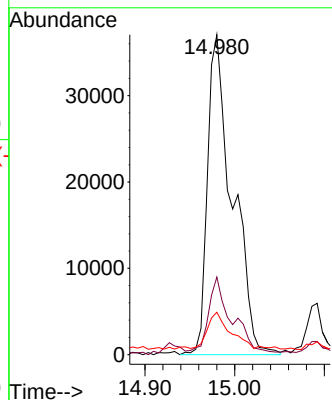
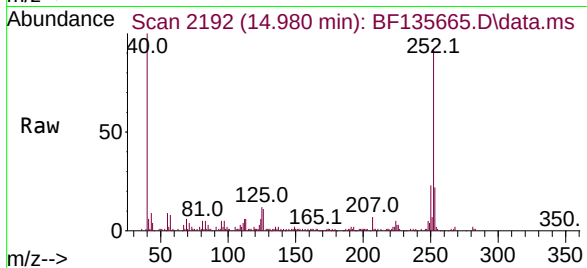
Tgt Ion:252 Resp: 71362

Ion Ratio Lower Upper

252 100

253 24.2 17.4 26.0

125 13.3 7.2 10.8#



#90

Benzo(a)pyrene

Concen: 2.704 ng

RT: 15.345 min Scan# 2254

Delta R.T. 0.018 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

Tgt Ion:252 Resp: 30580

Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

125 12.3 9.2 13.8

