

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
 Data File : BF135666.D
 Acq On : 09 Oct 2023 23:14
 Operator : CG\JU
 Sample : 04778-07
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-3

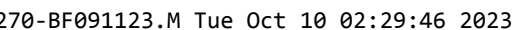
Quant Time: Oct 10 02:29:37 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 04 17:06:20 2023
 Response via : Initial Calibration

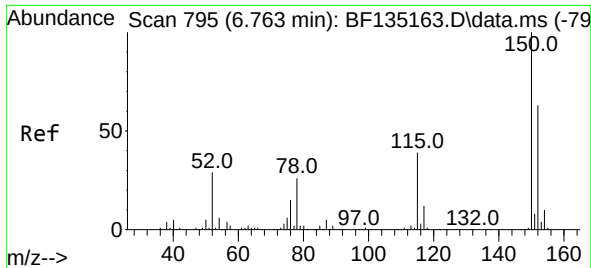
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.740	152	113155	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	402118	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	196820	20.000	ng	0.00
64) Phenanthrene-d10	11.269	188	319755	20.000	ng	0.00
76) Chrysene-d12	13.933	240	198523	20.000	ng	0.00
86) Perylene-d12	15.398	264	216582	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	504847	72.565	ng	0.00
7) Phenol-d6	6.387	99	627374	70.918	ng	0.00
23) Nitrobenzene-d5	7.304	82	378579	51.149	ng	0.00
42) 2,4,6-Tribromophenol	10.569	330	134619	68.827	ng	0.00
45) 2-Fluorobiphenyl	9.092	172	629492	48.254	ng	0.00
79) Terphenyl-d14	12.863	244	499895	39.035	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.304	70	49254	8.989	ng	# 79
25) Isophorone	7.304	82	378576	27.855	ng	# 65
31) Naphthalene	8.040	128	492451	25.205	ng	100
33) 4-Chloroaniline	8.040	127	64332	7.505	ng	# 33
35) Caprolactam	8.734	113	4002	2.180	ng	# 1
37) 2-Methylnaphthalene	8.734	142	175509	13.364	ng	100
38) 1-Methylnaphthalene	8.828	142	103512	8.418	ng	99
46) 1,1'-Biphenyl	9.198	154	42031	2.779	ng	97
50) Dimethylphthalate	9.775	163	38499	2.893	ng	# 1
51) 2,6-Dinitrotoluene	9.775	165	30528	10.472	ng	# 17
52) Acenaphthene	9.810	154	187528	17.405	ng	98
55) Dibenzofuran	9.981	168	205101	12.475	ng	99
56) 4-Nitrophenol	9.981	139	75343	34.644	ng	# 4
58) Fluorene	10.328	166	230791	18.259	ng	100
67) 4-Bromophenyl-phenylether	10.569	248	8223	2.586	ng	# 1
71) Phenanthrene	11.298	178	861458	56.963	ng	99
72) Anthracene	11.345	178	121511	7.817	ng	98
73) Carbazole	11.510	167	86968	6.146	ng	99
75) Fluoranthene	12.492	202	504137	31.992	ng	99
78) Pyrene	12.722	202	380626	20.138	ng	99
81) Benzo(a)anthracene	13.921	228	109379	8.532	ng	99
83) Chrysene	13.957	228	89585	7.029	ng	98
88) Benzo(b)fluoranthene	14.980	252	106539	9.087	ng	# 96
89) Benzo(k)fluoranthene	14.980	252	106539	9.199	ng	# 96
90) Benzo(a)pyrene	15.345	252	49254	4.405	ng	97

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

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QLast Update : Wed Oct 04 17:06:20 2023
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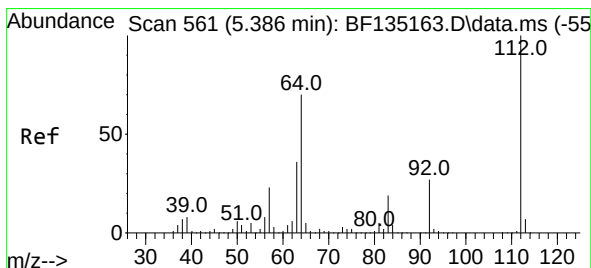
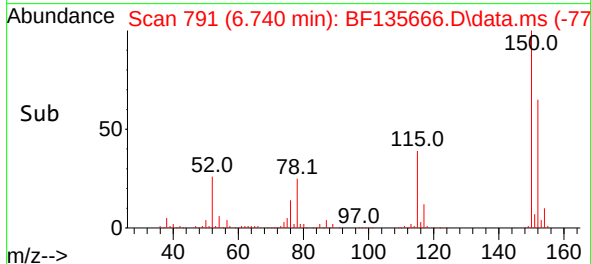
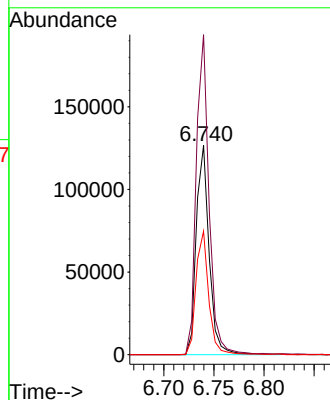
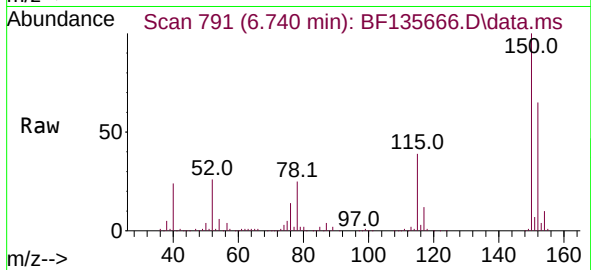




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.740 min Scan# 795
Delta R.T. 0.001 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

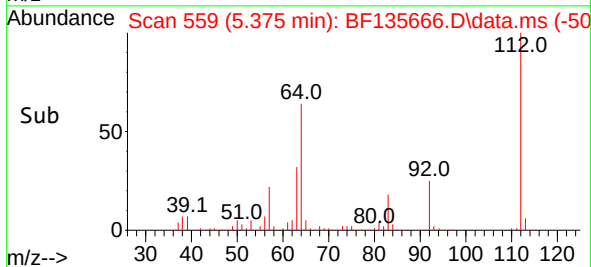
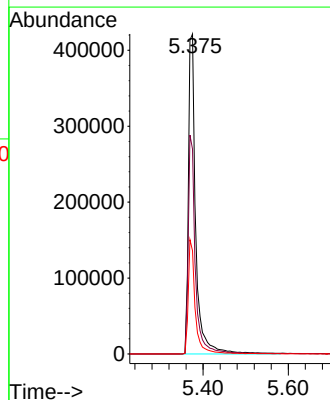
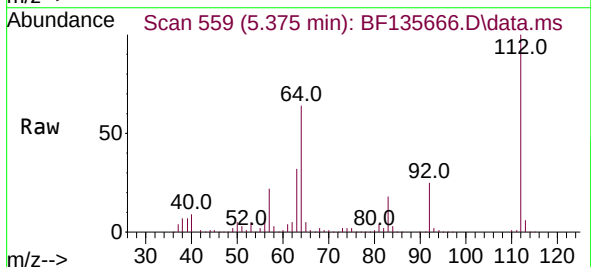
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ClientSampleId :
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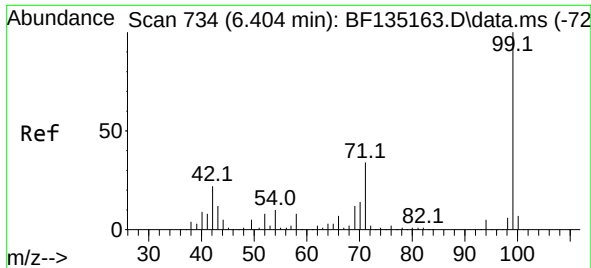
Tgt Ion:152 Resp: 113155
Ion Ratio Lower Upper
152 100
150 152.9 127.8 191.6
115 59.0 49.8 74.8



#5
2-Fluorophenol
Concen: 72.565 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.006 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Tgt Ion:112 Resp: 504847
Ion Ratio Lower Upper
112 100
64 64.0 55.9 83.9
63 32.3 29.0 43.6

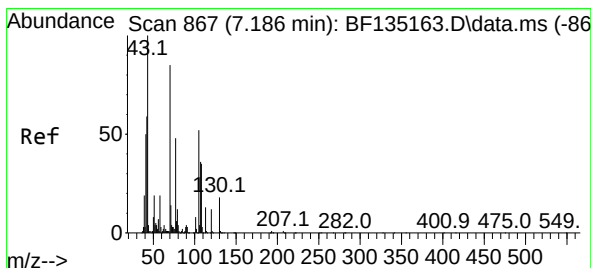
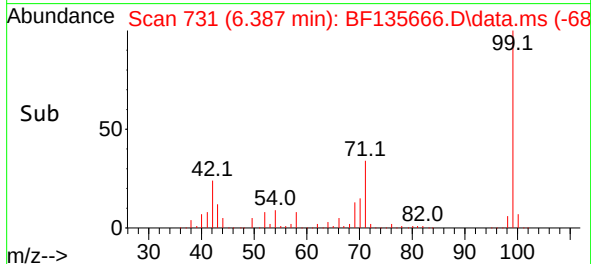
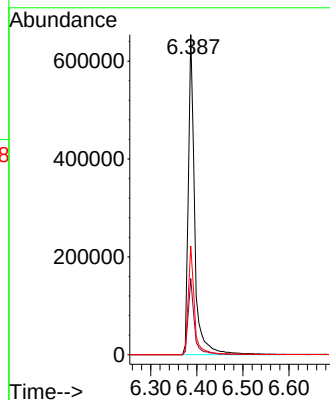
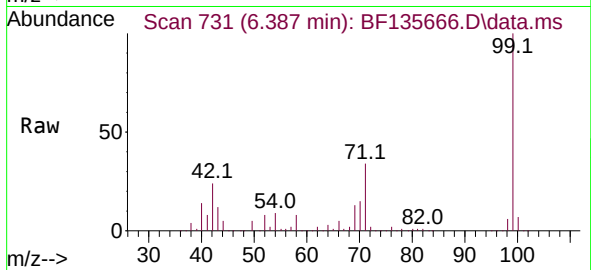




#7
Phenol-d6
Concen: 70.918 ng
RT: 6.387 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

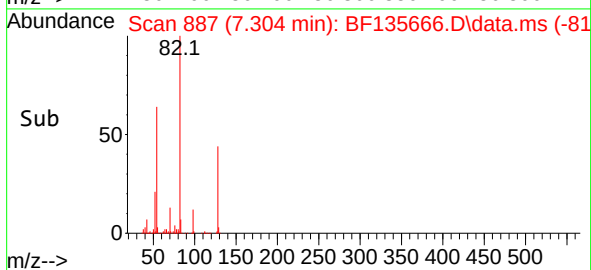
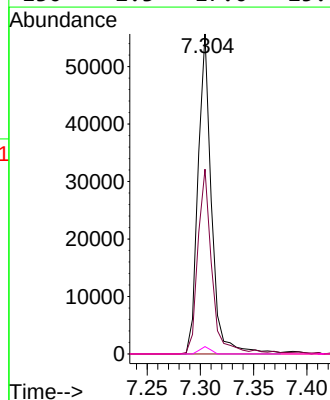
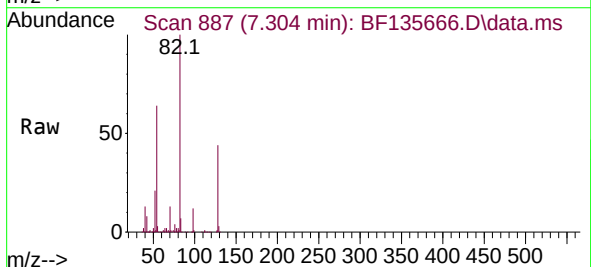
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ClientSampleId :
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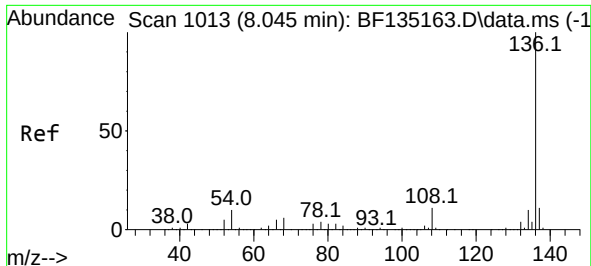
Tgt Ion: 99 Resp: 627374
Ion Ratio Lower Upper
99 100
42 23.8 17.9 26.9
71 33.9 27.0 40.6



#19
n-Nitroso-di-n-propylamine
Concen: 8.989 ng
RT: 7.304 min Scan# 887
Delta R.T. 0.147 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Tgt Ion: 70 Resp: 49254
Ion Ratio Lower Upper
70 100
42 57.8 55.4 83.0
101 0.0 7.7 11.5#
130 2.3 17.0 25.6#

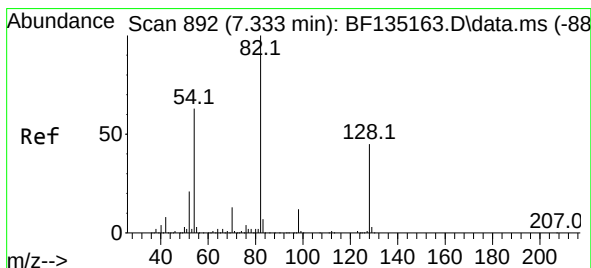
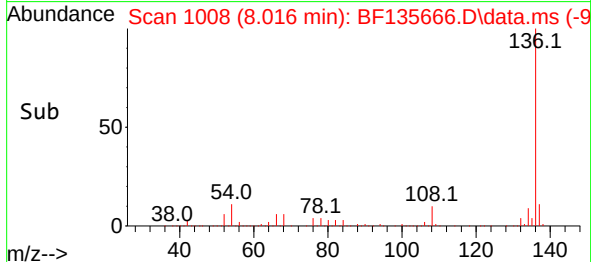
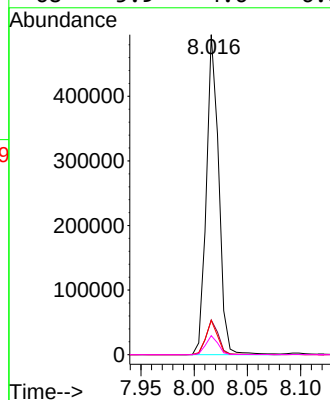
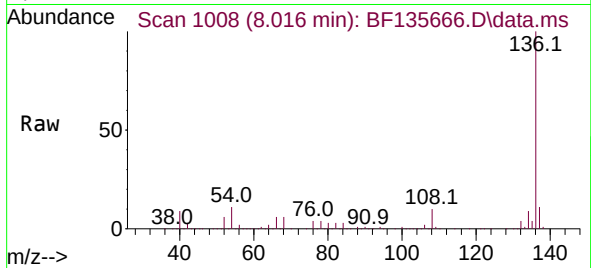




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

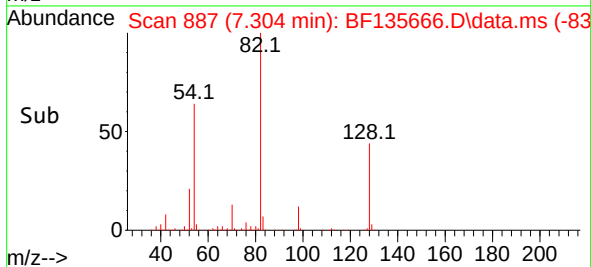
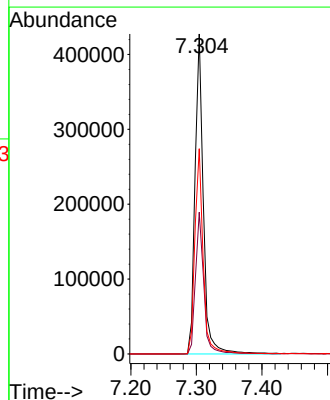
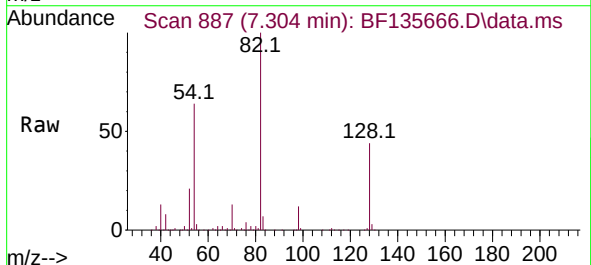
Instrument :
BNA_F
ClientSampleId :
SOIL-3

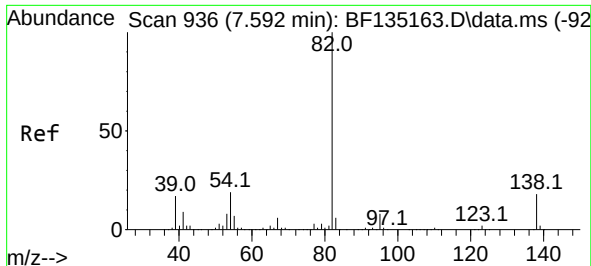
Tgt Ion:136 Resp: 402118
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 10.7 7.7 11.5
68 5.9 4.6 6.8



#23
Nitrobenzene-d5
Concen: 51.149 ng
RT: 7.304 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Tgt Ion: 82 Resp: 378579
Ion Ratio Lower Upper
82 100
128 44.3 35.8 53.6
54 64.2 50.6 76.0

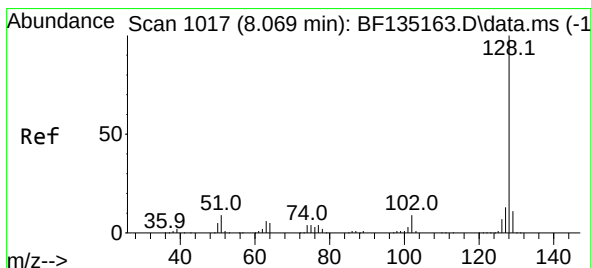
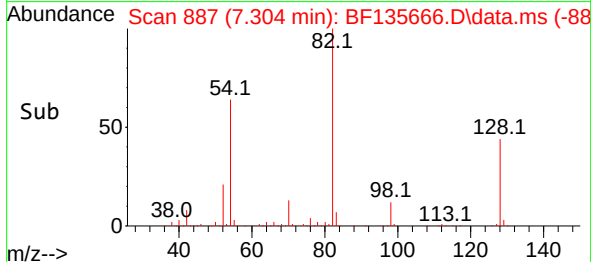
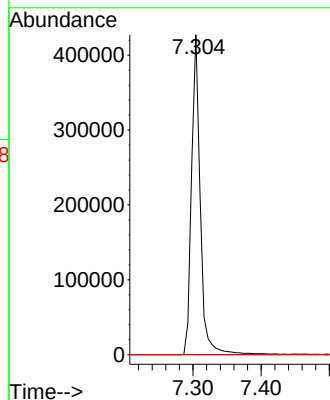
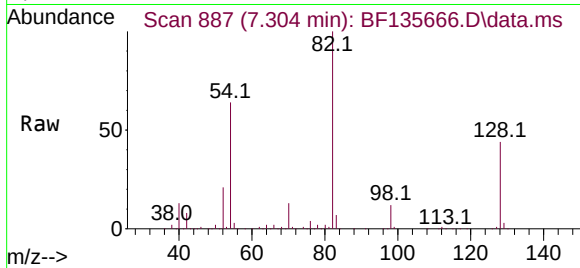




#25
Isophorone
Concen: 27.855 ng
RT: 7.304 min Scan# 81
Delta R.T. -0.259 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

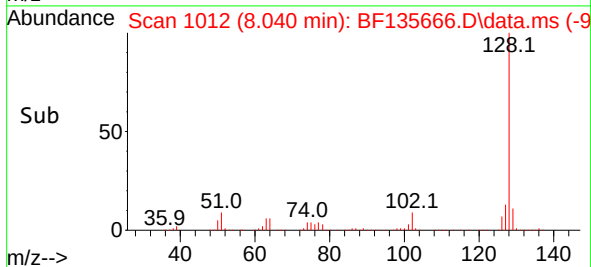
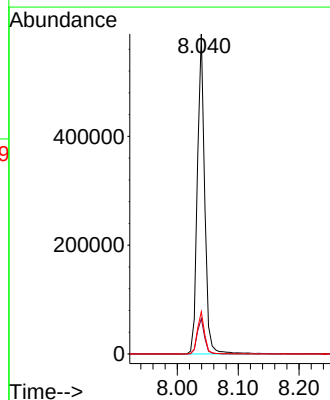
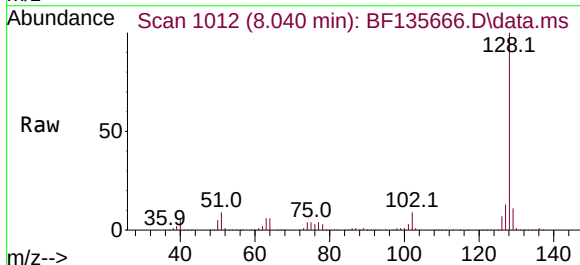
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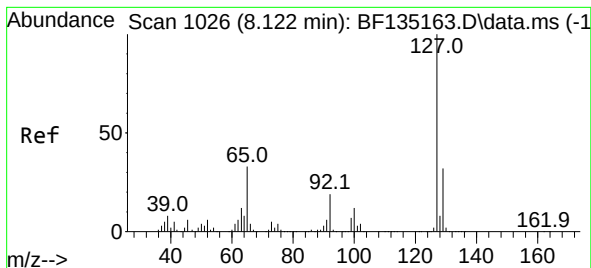
Tgt Ion: 82 Resp: 378576
Ion Ratio Lower Upper
82 100
95 0.0 6.0 9.0#
138 0.0 14.5 21.7#



#31
Naphthalene
Concen: 25.205 ng
RT: 8.040 min Scan# 1012
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Tgt Ion: 128 Resp: 492451
Ion Ratio Lower Upper
128 100
129 11.1 8.7 13.1
127 13.2 10.7 16.1





#33

4-Chloroaniline

Concen: 7.505 ng

RT: 8.040 min Scan# 1130

Delta R.T. -0.059 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

Instrument :

BNA_F

ClientSampleId :

SOIL-3

Tgt Ion:127 Resp: 64332

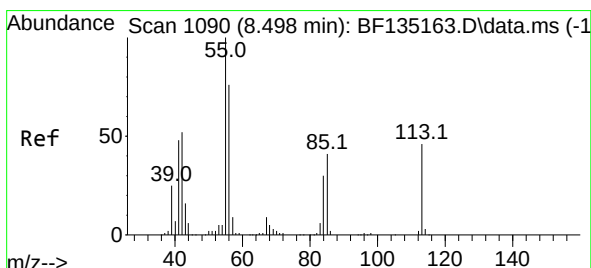
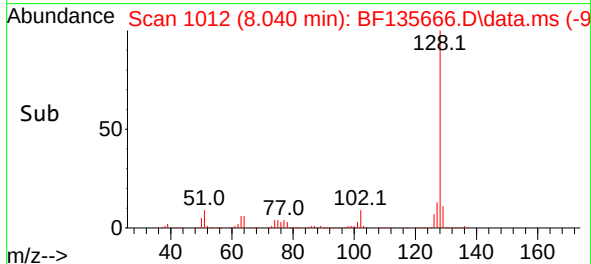
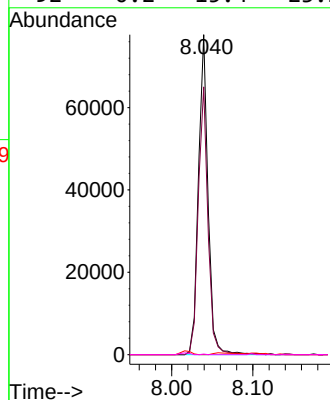
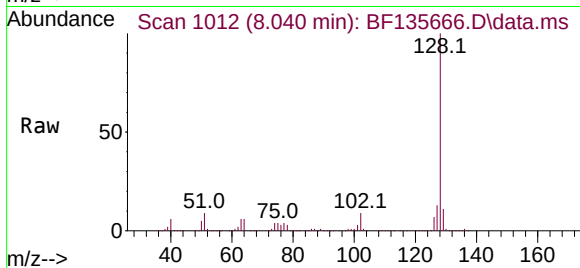
Ion Ratio Lower Upper

127 100

129 83.7 25.8 38.8#

65 0.0 26.6 39.8#

92 0.2 15.4 23.2#



#35

Caprolactam

Concen: 2.180 ng

RT: 8.734 min Scan# 1130

Delta R.T. 0.265 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

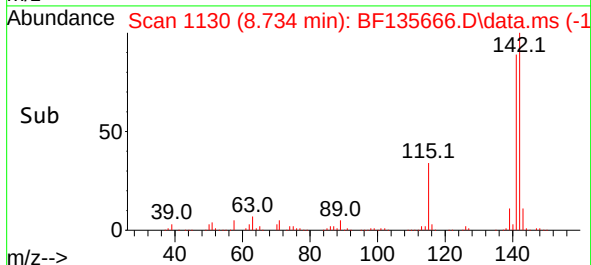
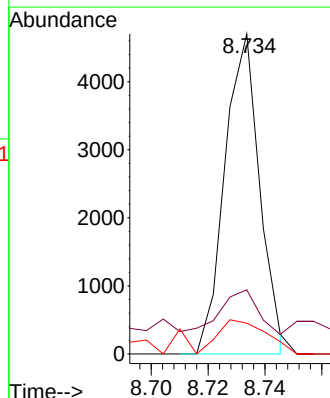
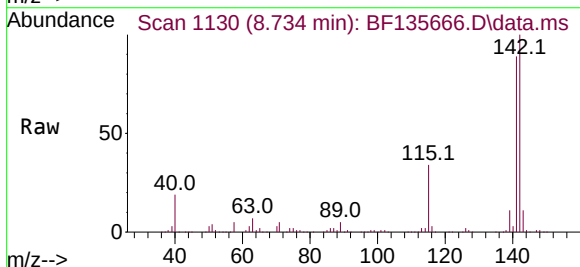
Tgt Ion:113 Resp: 4002

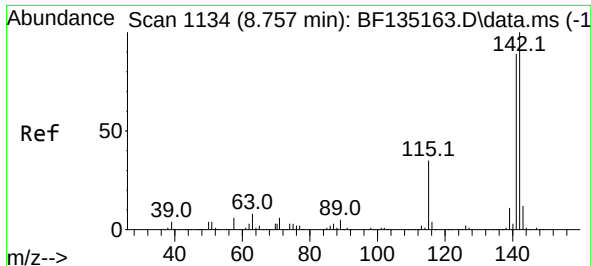
Ion Ratio Lower Upper

113 100

55 20.1 199.3 239.3#

56 9.6 146.3 186.3#

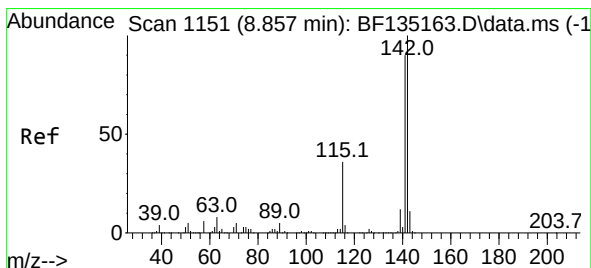
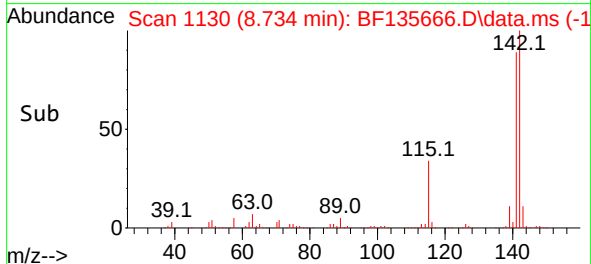
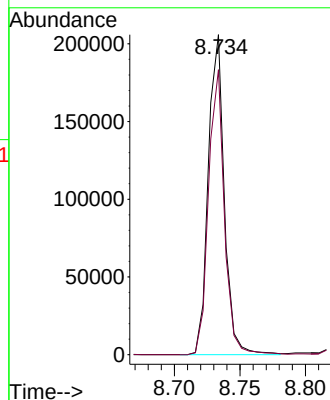
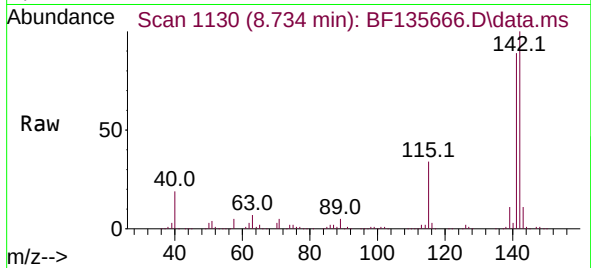




#37
2-Methylnaphthalene
Concen: 13.364 ng
RT: 8.734 min Scan# 1134
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

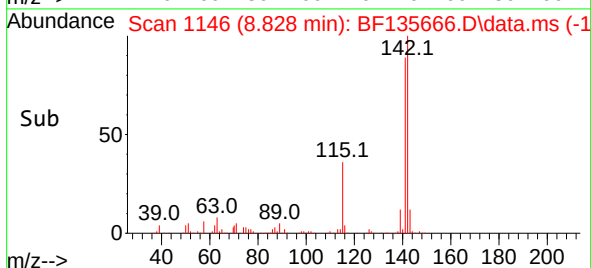
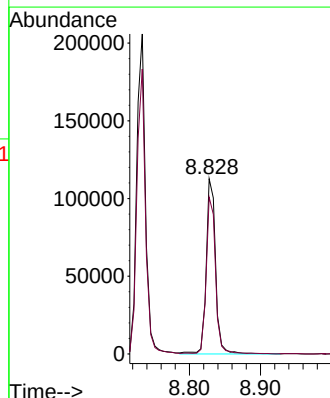
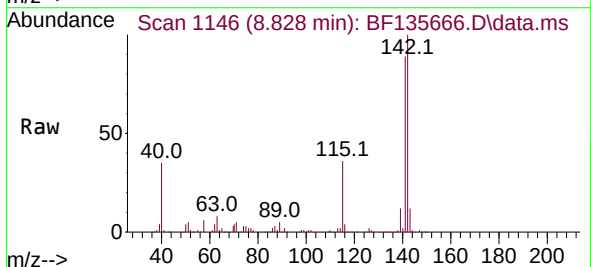
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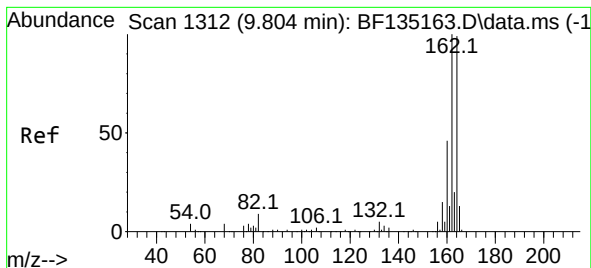
Tgt Ion:142 Resp: 175509
Ion Ratio Lower Upper
142 100
141 89.1 71.0 106.6



#38
1-Methylnaphthalene
Concen: 8.418 ng
RT: 8.828 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Tgt Ion:142 Resp: 103512
Ion Ratio Lower Upper
142 100
141 89.3 72.4 108.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.775 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

Instrument :

BNA_F

ClientSampleId :

SOIL-3

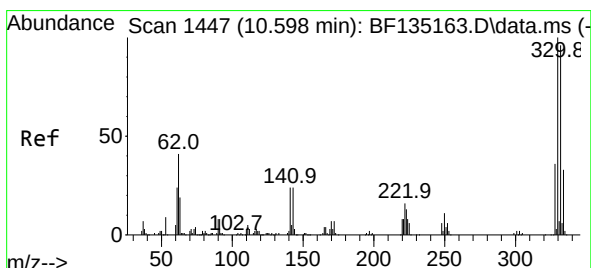
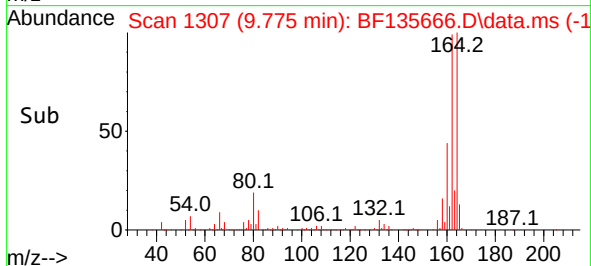
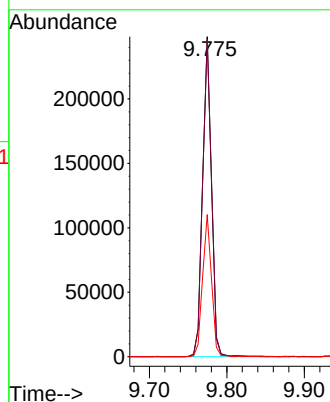
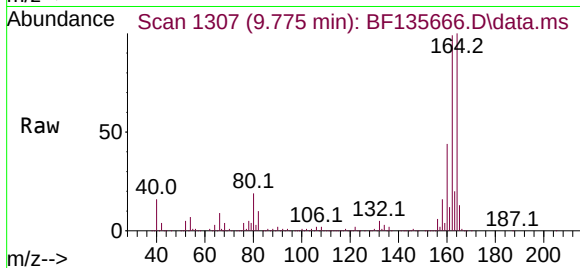
Tgt Ion:164 Resp: 196820

Ion Ratio Lower Upper

164 100

162 99.1 81.0 121.4

160 44.4 37.0 55.4



#42

2,4,6-Tribromophenol

Concen: 68.827 ng

RT: 10.569 min Scan# 1442

Delta R.T. 0.000 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

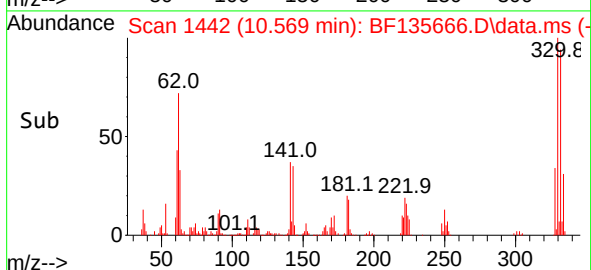
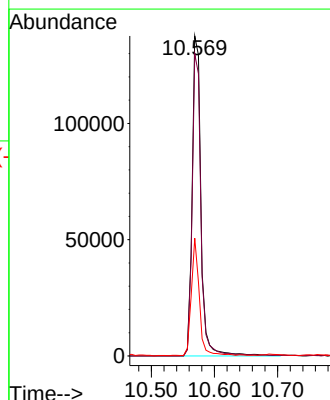
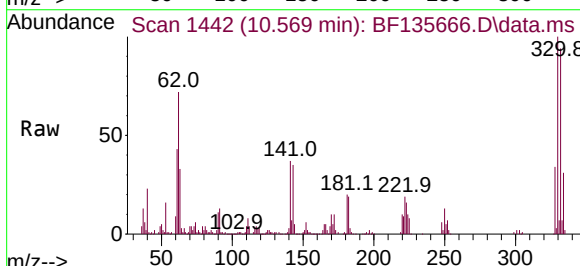
Tgt Ion:330 Resp: 134619

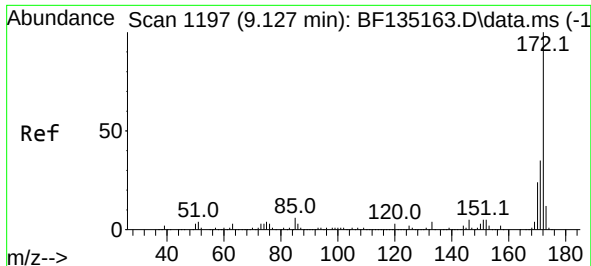
Ion Ratio Lower Upper

330 100

332 93.5 77.3 115.9

141 33.1 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 48.254 ng

RT: 9.092 min Scan# 1197

Delta R.T. -0.006 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

Instrument :

BNA_F

ClientSampleId :

SOIL-3

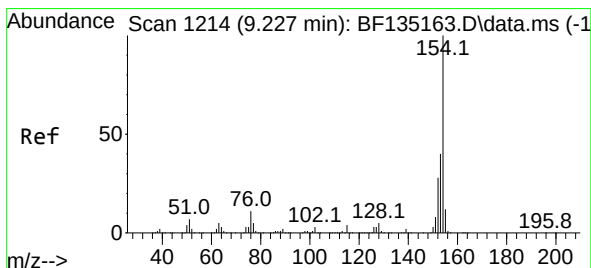
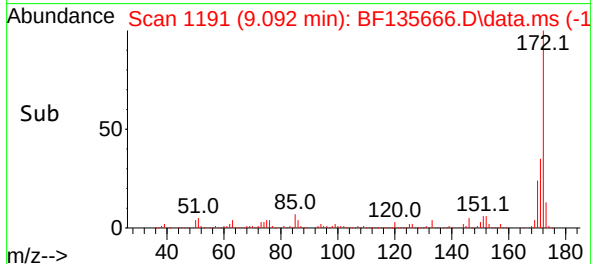
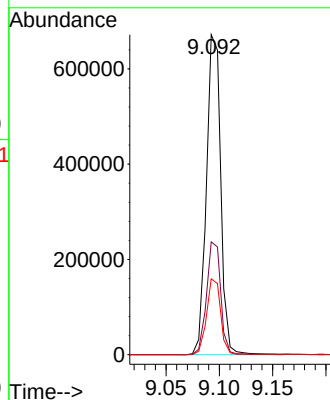
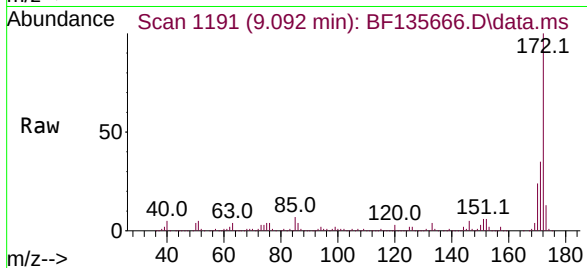
Tgt Ion:172 Resp: 629492

Ion Ratio Lower Upper

172 100

171 35.3 28.4 42.6

170 23.7 19.0 28.4



#46

1,1'-Biphenyl

Concen: 2.779 ng

RT: 9.198 min Scan# 1209

Delta R.T. 0.000 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

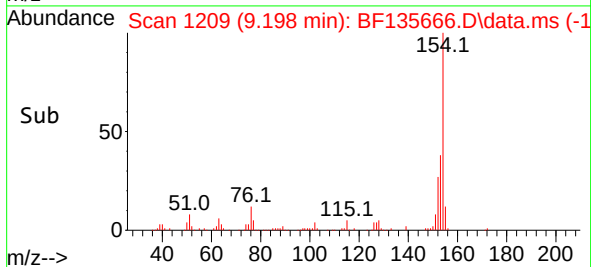
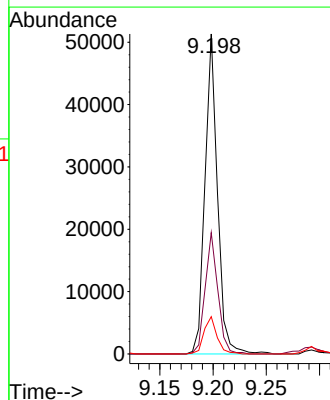
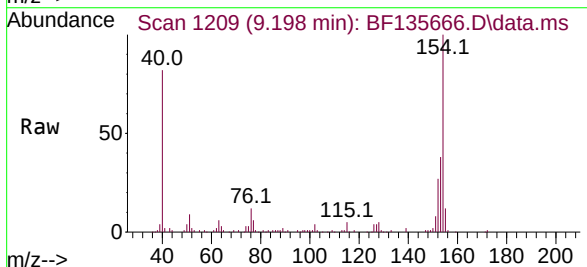
Tgt Ion:154 Resp: 42031

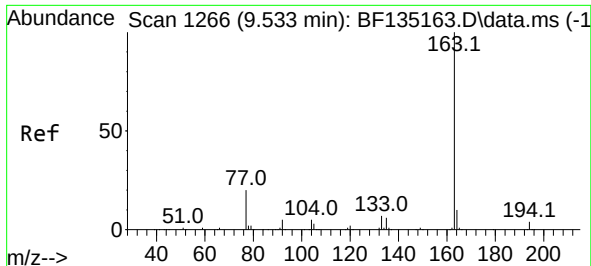
Ion Ratio Lower Upper

154 100

153 37.9 19.6 59.6

76 11.7 0.0 31.0

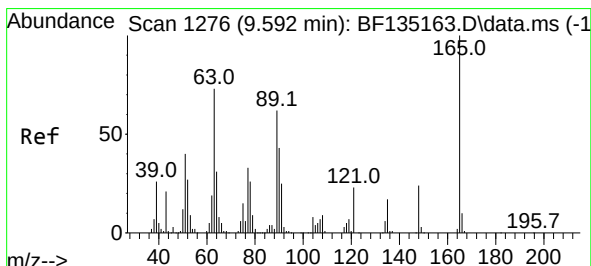
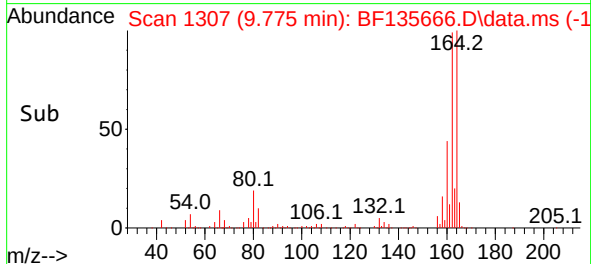
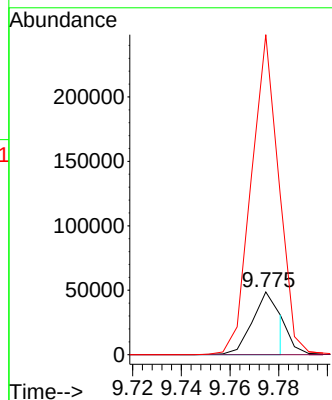
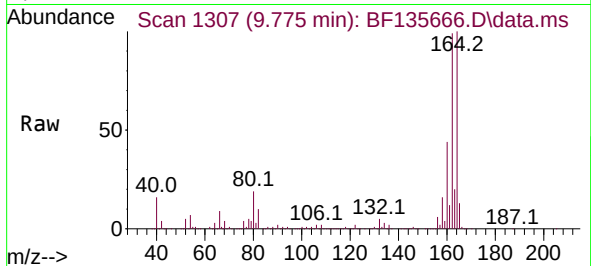




#50
Dimethylphthalate
Concen: 2.893 ng
RT: 9.775 min Scan# 1307
Delta R.T. 0.271 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

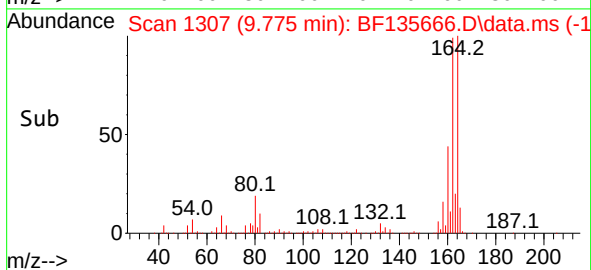
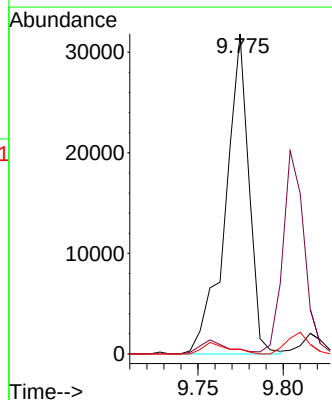
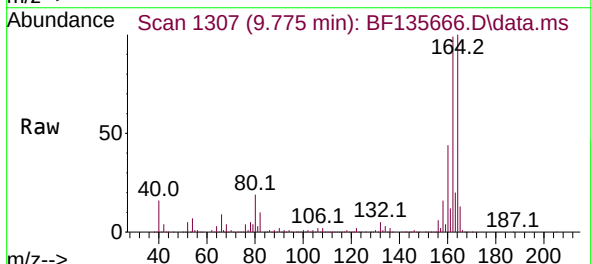
Instrument :
BNA_F
ClientSampleId :
SOIL-3

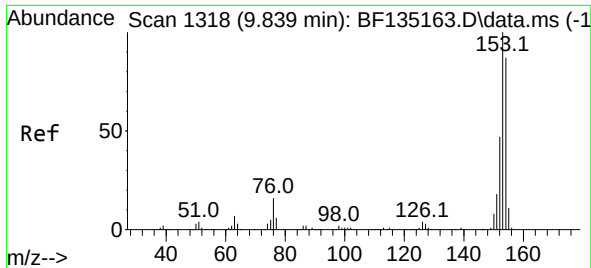
Tgt Ion:163 Resp: 38499
Ion Ratio Lower Upper
163 100
194 0.0 3.1 4.7#
164 509.5 8.1 12.1#



#51
2,6-Dinitrotoluene
Concen: 10.472 ng
RT: 9.775 min Scan# 1307
Delta R.T. 0.200 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Tgt Ion:165 Resp: 30528
Ion Ratio Lower Upper
165 100
63 1.5 59.4 89.2#
89 1.5 49.8 74.8#

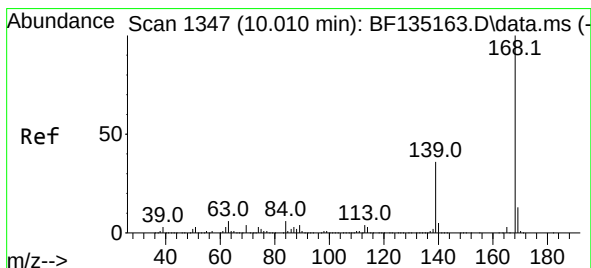
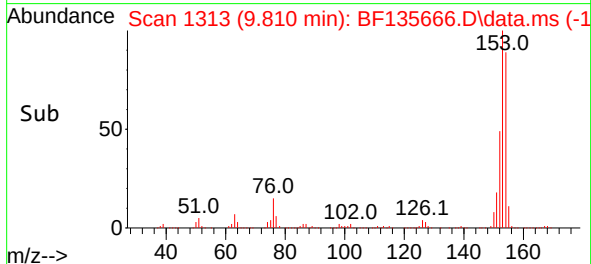
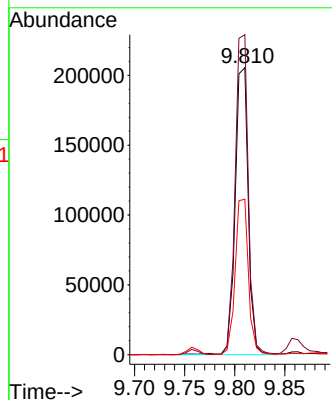
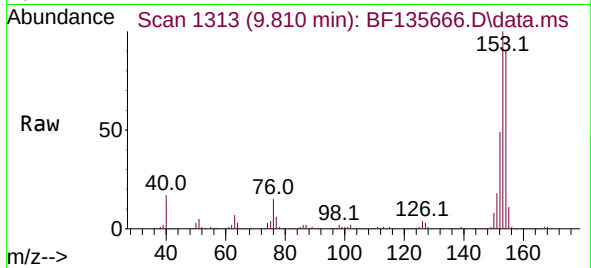




#52
Acenaphthene
Concen: 17.405 ng
RT: 9.810 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

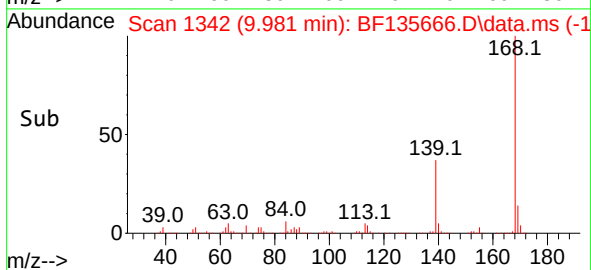
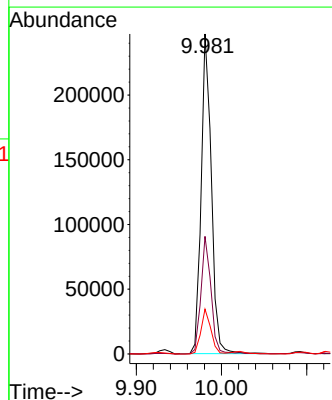
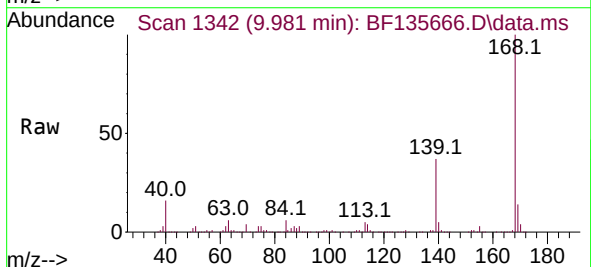
Instrument :
BNA_F
ClientSampleId :
SOIL-3

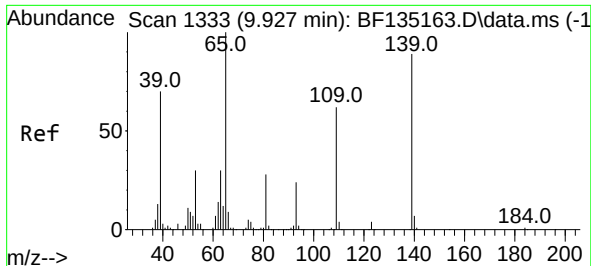
Tgt Ion:154 Resp: 187528
Ion Ratio Lower Upper
154 100
153 111.5 92.1 138.1
152 54.2 43.1 64.7



#55
Dibenzofuran
Concen: 12.475 ng
RT: 9.981 min Scan# 1342
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Tgt Ion:168 Resp: 205101
Ion Ratio Lower Upper
168 100
139 36.7 29.0 43.6
169 14.0 10.4 15.6

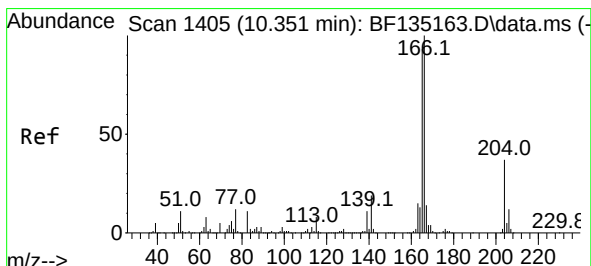
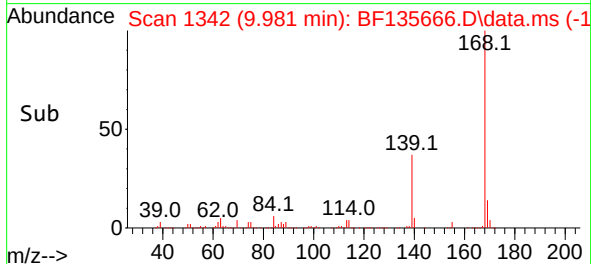
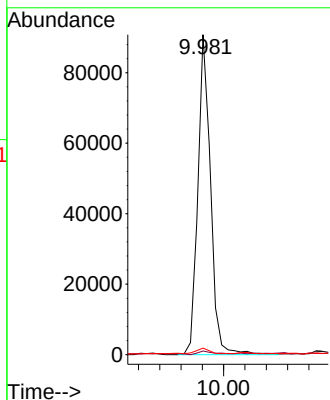
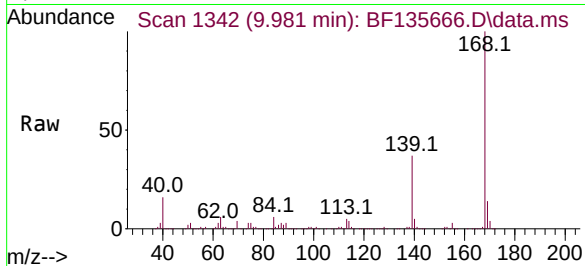




#56
4-Nitrophenol
Concen: 34.644 ng
RT: 9.981 min Scan# 11
Delta R.T. 0.053 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

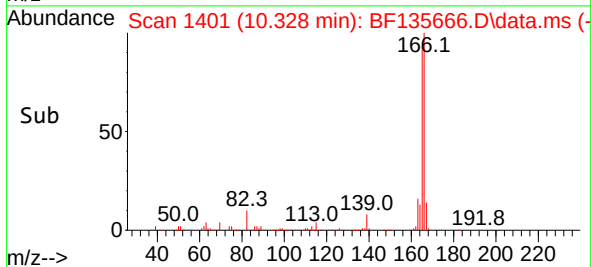
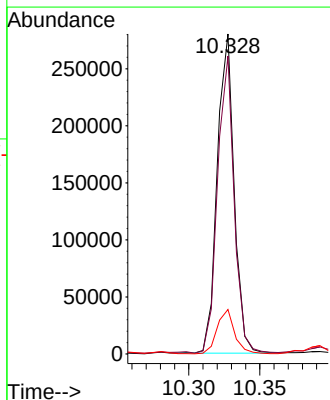
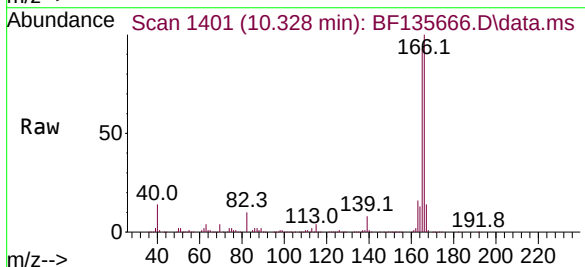
Instrument :
BNA_F
ClientSampleId :
SOIL-3

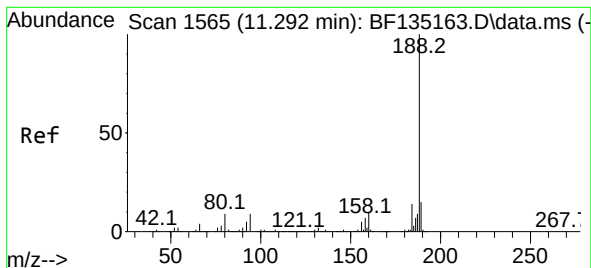
Tgt Ion:139 Resp: 75343
Ion Ratio Lower Upper
139 100
109 1.1 49.8 89.8#
65 2.0 92.7 132.7#



#58
Fluorene
Concen: 18.259 ng
RT: 10.328 min Scan# 1401
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Tgt Ion:166 Resp: 230791
Ion Ratio Lower Upper
166 100
165 93.1 74.3 111.5
167 13.9 10.9 16.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.269 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

Instrument :

BNA_F

ClientSampleId :

SOIL-3

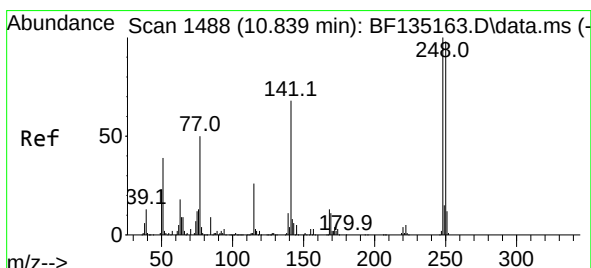
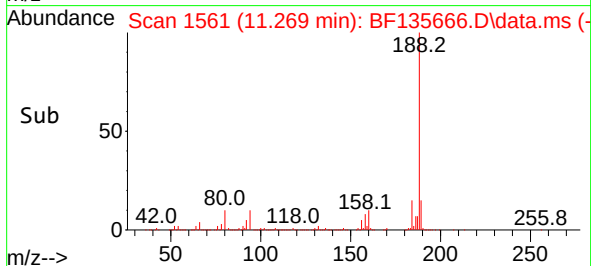
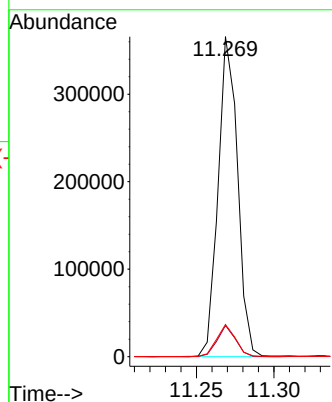
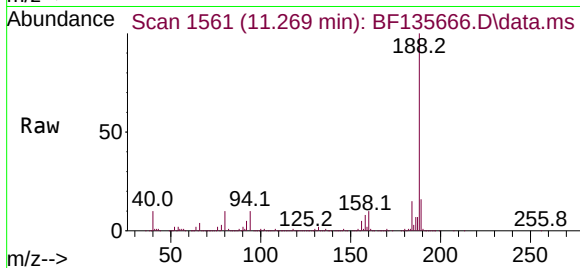
Tgt Ion:188 Resp: 319755

Ion Ratio Lower Upper

188 100

94 9.7 7.0 10.6

80 10.1 7.5 11.3



#67

4-Bromophenyl-phenylether

Concen: 2.586 ng

RT: 10.569 min Scan# 1442

Delta R.T. -0.241 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

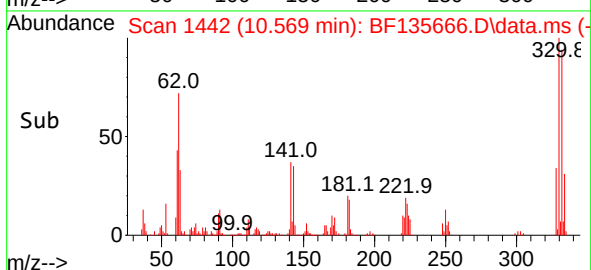
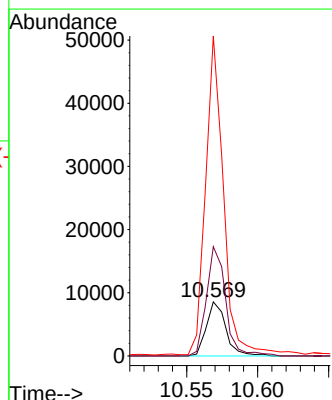
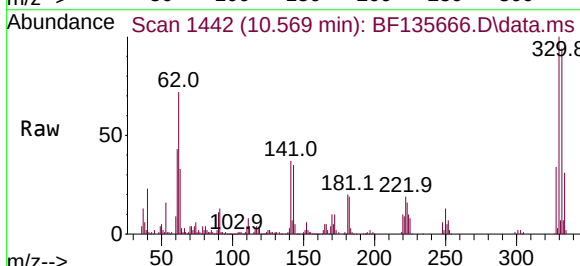
Tgt Ion:248 Resp: 8223

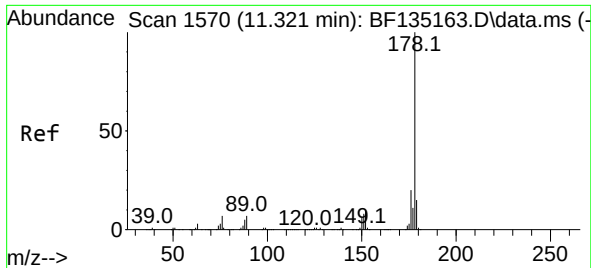
Ion Ratio Lower Upper

248 100

250 201.8 78.6 117.8#

141 590.7 54.2 81.2#

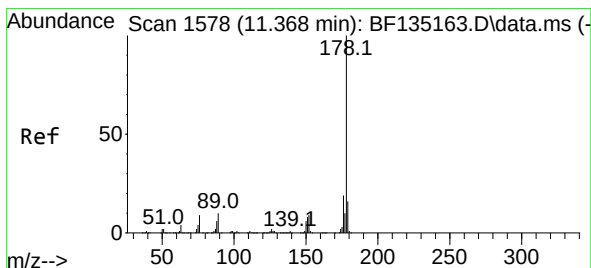
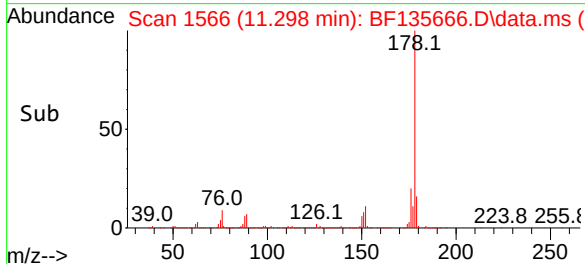
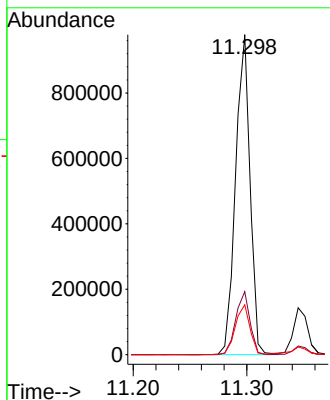
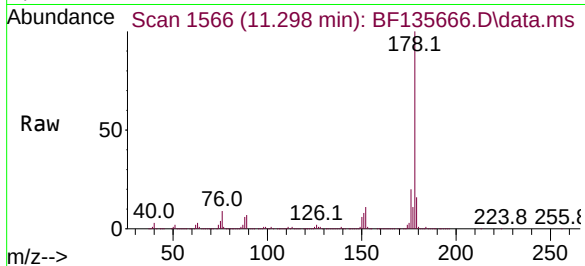




#71
Phenanthrene
Concen: 56.963 ng
RT: 11.298 min Scan# 1566
Delta R.T. 0.006 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

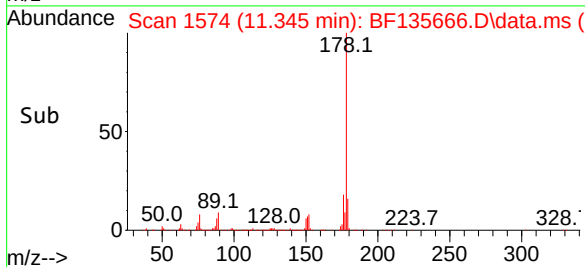
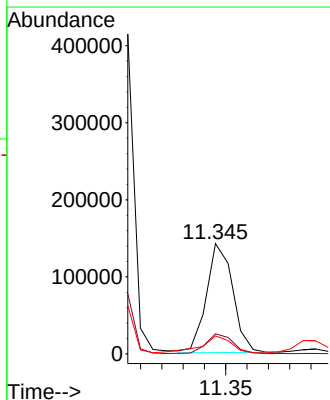
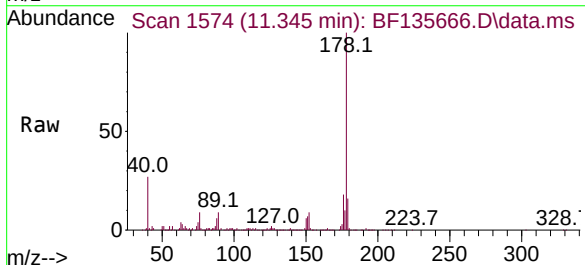
Instrument :
BNA_F
ClientSampleId :
SOIL-3

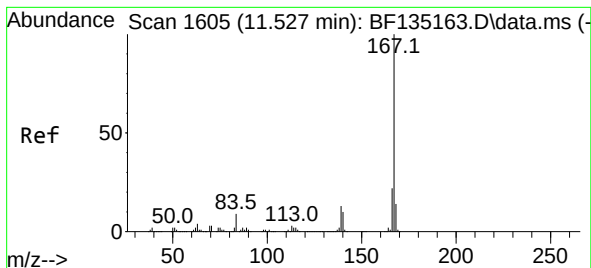
Tgt Ion:178 Resp: 861458
Ion Ratio Lower Upper
178 100
176 19.7 15.6 23.4
179 15.6 12.0 18.0



#72
Anthracene
Concen: 7.817 ng
RT: 11.345 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Tgt Ion:178 Resp: 121511
Ion Ratio Lower Upper
178 100
176 18.3 15.4 23.2
179 16.4 12.6 19.0





#73

Carbazole

Concen: 6.146 ng

RT: 11.510 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

Instrument :

BNA_F

ClientSampleId :

SOIL-3

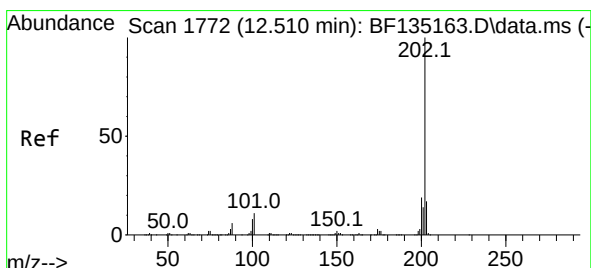
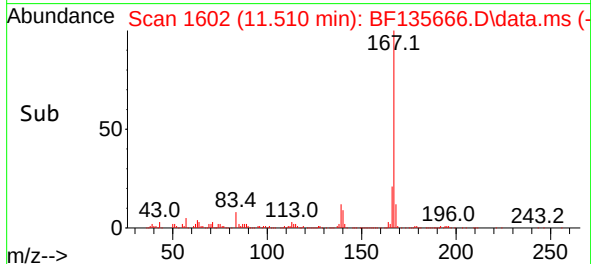
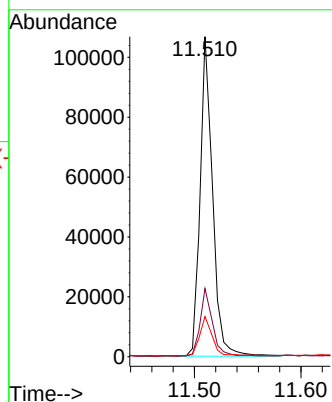
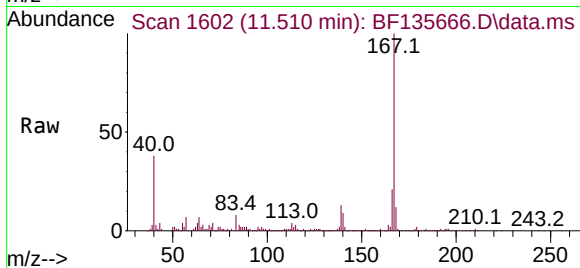
Tgt Ion:167 Resp: 86968

Ion Ratio Lower Upper

167 100

166 21.3 17.4 26.0

139 12.6 10.6 15.8



#75

Fluoranthene

Concen: 31.992 ng

RT: 12.492 min Scan# 1769

Delta R.T. 0.006 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

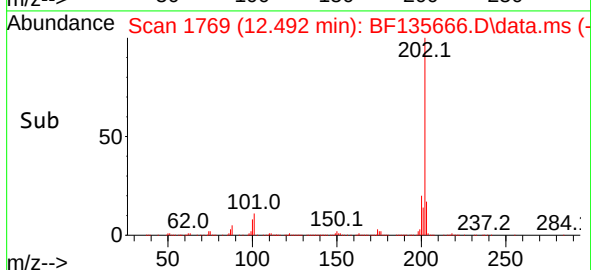
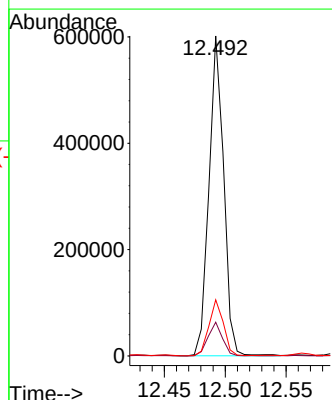
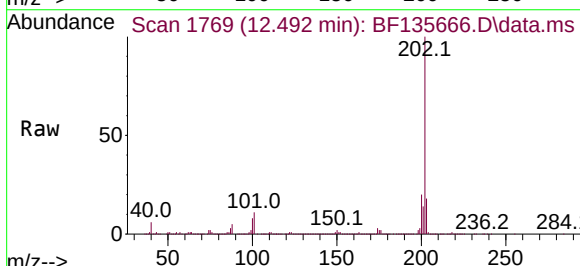
Tgt Ion:202 Resp: 504137

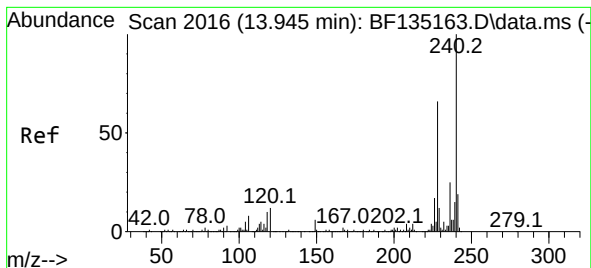
Ion Ratio Lower Upper

202 100

101 10.6 0.0 31.3

203 17.6 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.933 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

Instrument :

BNA_F

ClientSampleId :

SOIL-3

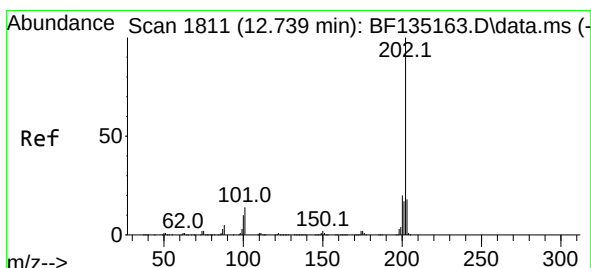
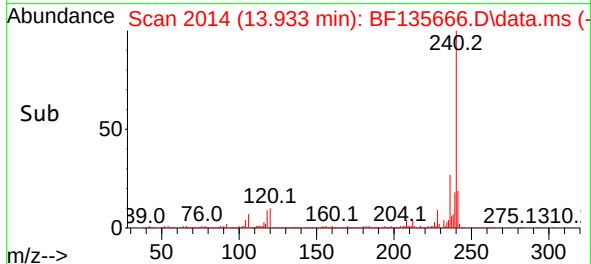
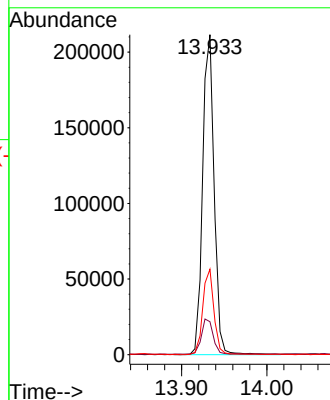
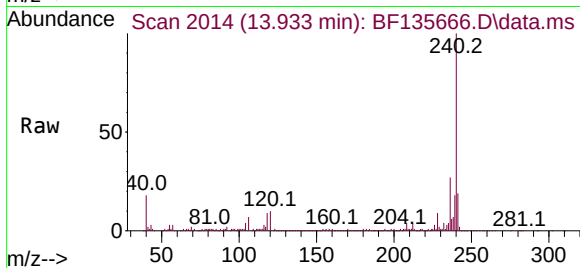
Tgt Ion:240 Resp: 198523

Ion Ratio Lower Upper

240 100

120 10.3 9.4 14.2

236 26.7 19.8 29.8



#78

Pyrene

Concen: 20.138 ng

RT: 12.722 min Scan# 1808

Delta R.T. 0.006 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

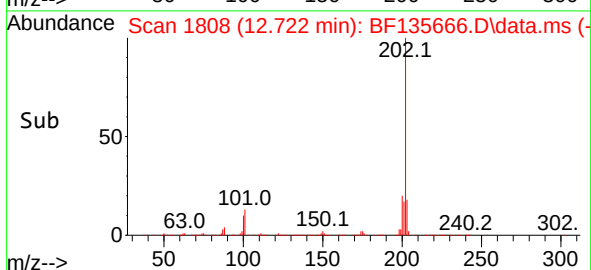
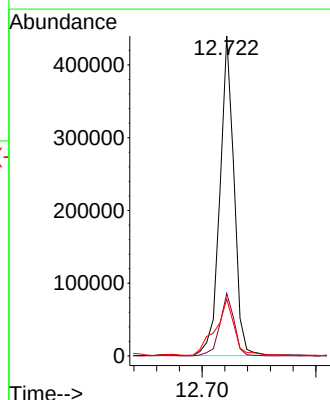
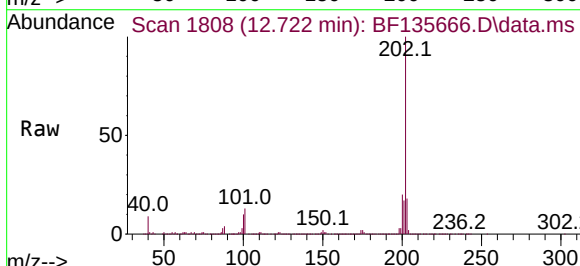
Tgt Ion:202 Resp: 380626

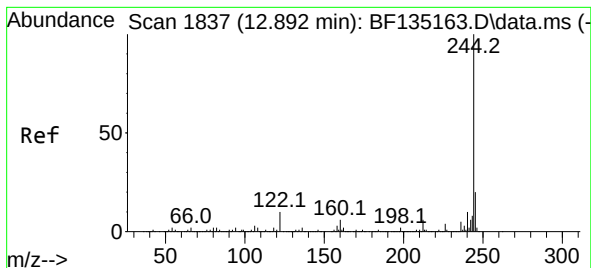
Ion Ratio Lower Upper

202 100

200 19.6 16.2 24.2

203 17.8 14.2 21.4





#79

Terphenyl-d14

Concen: 39.035 ng

RT: 12.863 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

Instrument :

BNA_F

ClientSampleId :

SOIL-3

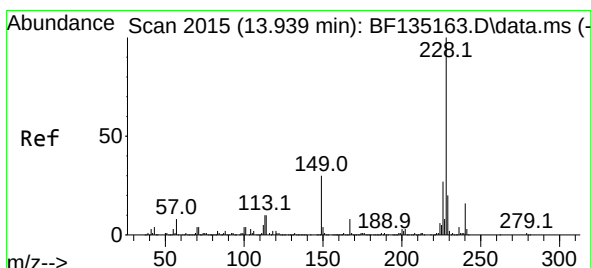
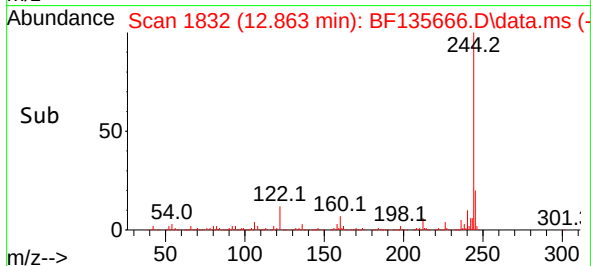
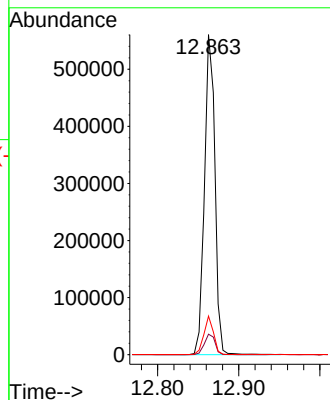
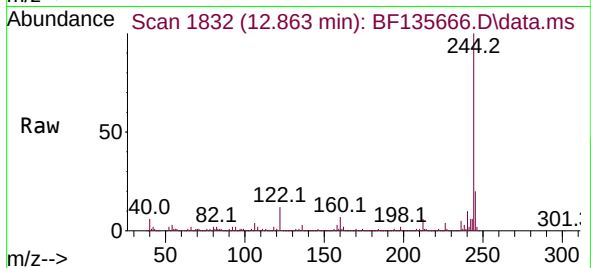
Tgt Ion:244 Resp: 499895

Ion Ratio Lower Upper

244 100

212 6.4 5.1 7.7

122 12.1 7.9 11.9#



#81

Benzo(a)anthracene

Concen: 8.532 ng

RT: 13.921 min Scan# 2012

Delta R.T. 0.006 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

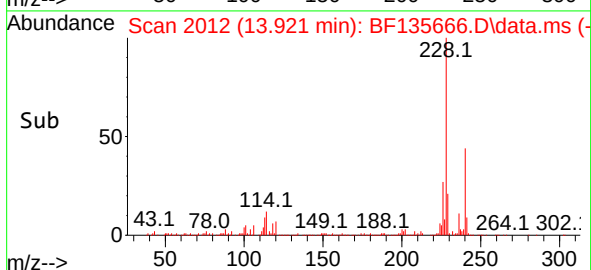
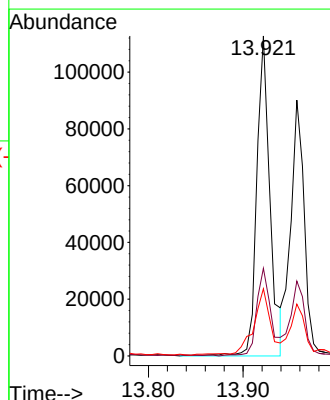
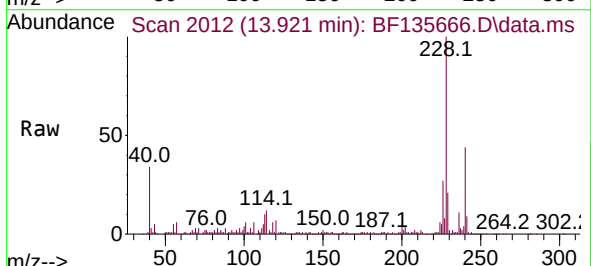
Tgt Ion:228 Resp: 109379

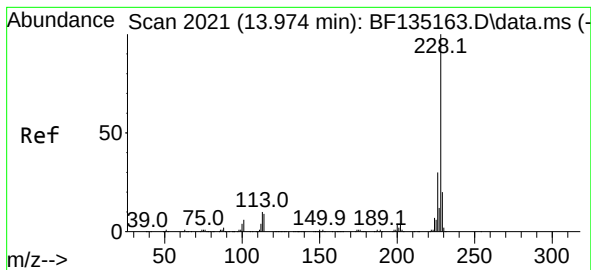
Ion Ratio Lower Upper

228 100

226 27.4 21.7 32.5

229 21.0 15.8 23.8





#83

Chrysene

Concen: 7.029 ng

RT: 13.957 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

Instrument :

BNA_F

ClientSampleId :

SOIL-3

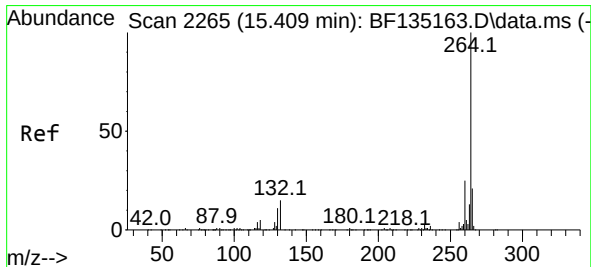
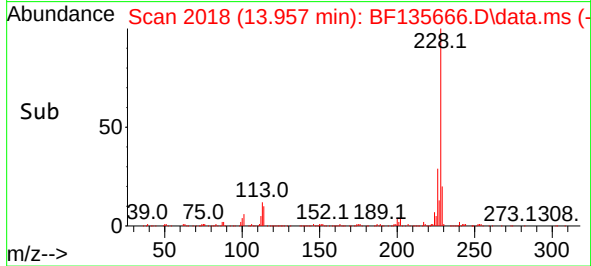
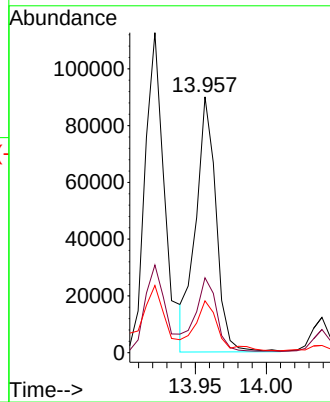
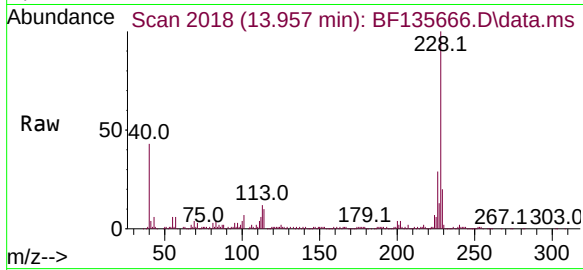
Tgt Ion:228 Resp: 89585

Ion Ratio Lower Upper

228 100

226 29.3 24.3 36.5

229 20.3 16.0 24.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.398 min Scan# 2263

Delta R.T. 0.012 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

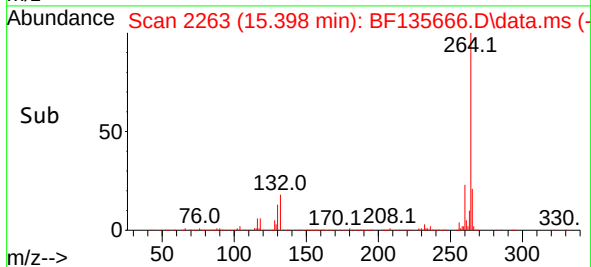
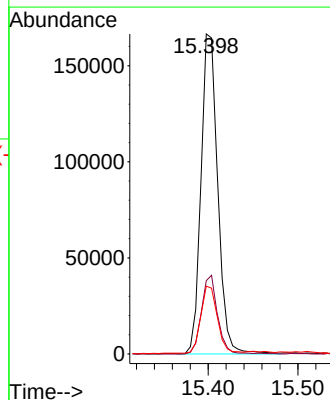
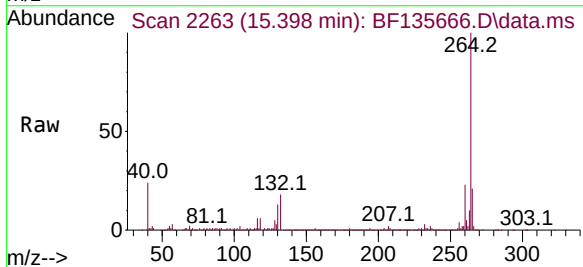
Tgt Ion:264 Resp: 216582

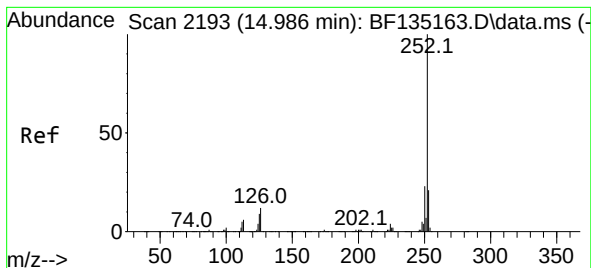
Ion Ratio Lower Upper

264 100

260 22.9 19.8 29.6

265 21.2 17.0 25.4





#88

Benzo(b)fluoranthene

Concen: 9.087 ng

RT: 14.980 min Scan# 2192

Delta R.T. 0.018 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

Instrument :

BNA_F

ClientSampleId :

SOIL-3

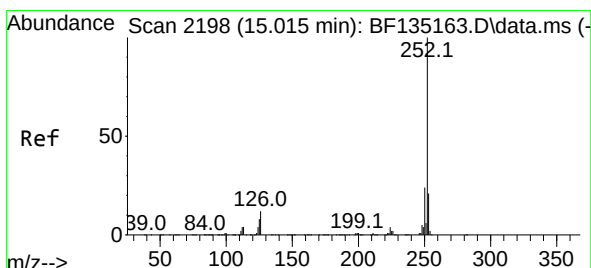
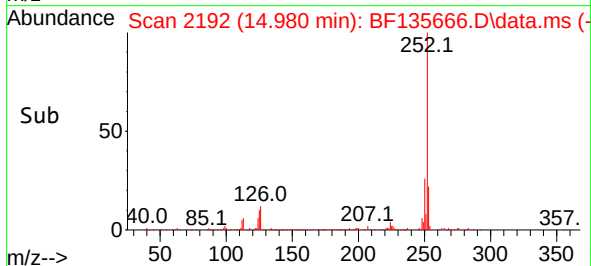
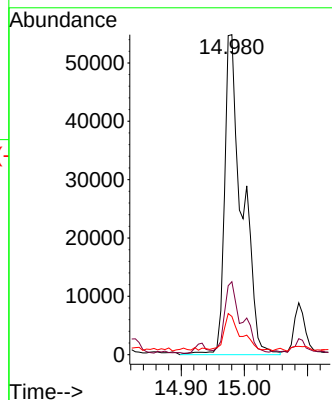
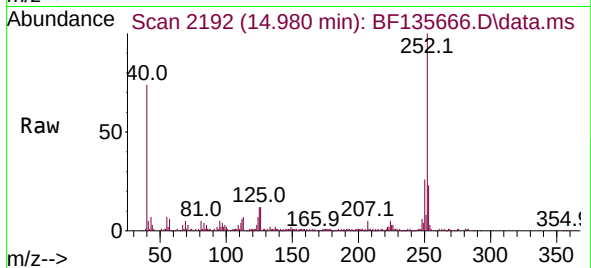
Tgt Ion:252 Resp: 106539

Ion Ratio Lower Upper

252 100

253 22.8 17.2 25.8

125 12.0 7.1 10.7#



#89

Benzo(k)fluoranthene

Concen: 9.199 ng

RT: 14.980 min Scan# 2192

Delta R.T. -0.012 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

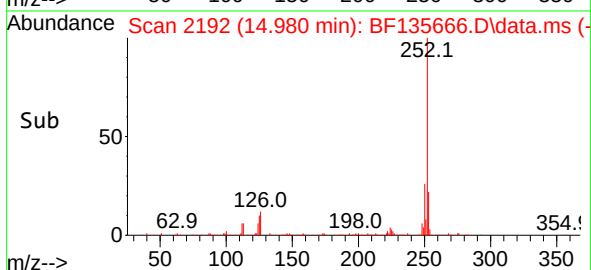
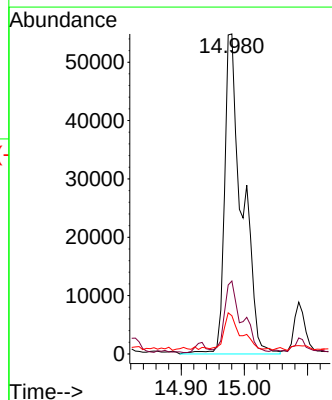
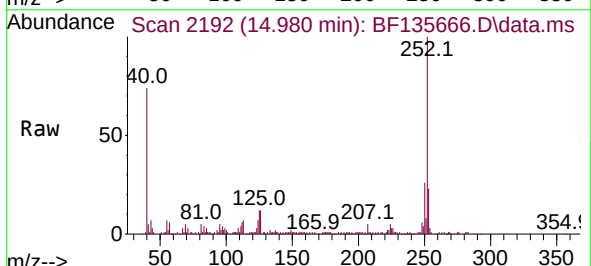
Tgt Ion:252 Resp: 106539

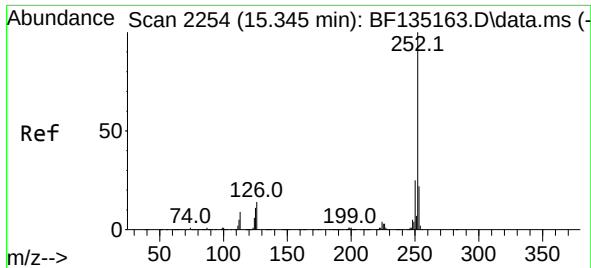
Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.0

125 12.0 7.2 10.8#





#90
 Benzo(a)pyrene
 Concen: 4.405 ng
 RT: 15.345 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: BF135666.D
 Acq: 09 Oct 2023 23:14

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-3

Tgt Ion:252 Resp: 49254
 Ion Ratio Lower Upper
 252 100
 253 23.7 17.5 26.3
 125 12.0 9.2 13.8

