

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100322\
 Data File : BF130505.D
 Acq On : 03 Oct 2022 18:30
 Operator : CG\JU
 Sample : N4943-05
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-003-0930

Quant Time: Oct 04 03:18:01 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091422.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 28 02:59:31 2022
 Response via : Initial Calibration

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

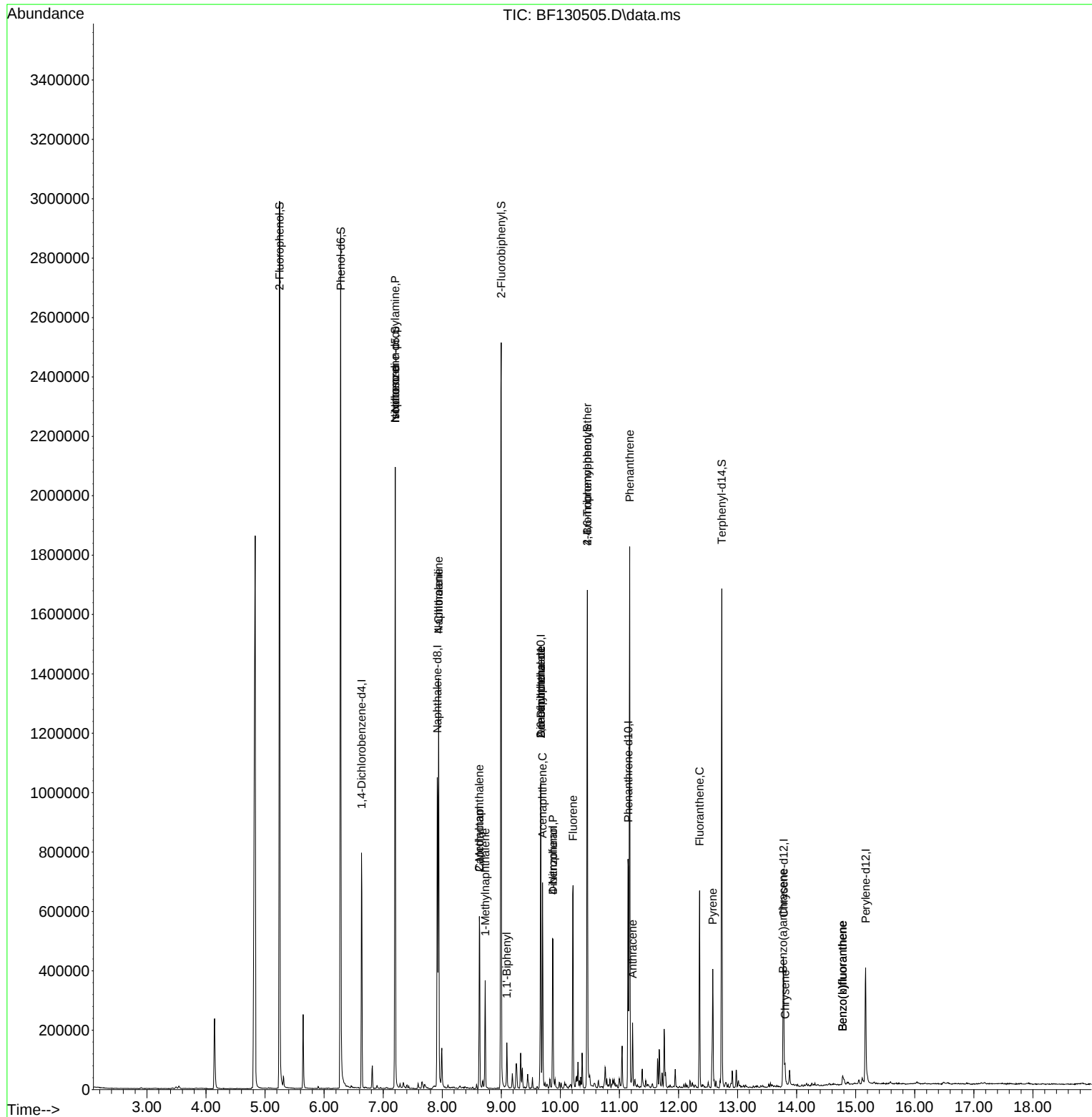
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.634	152	106085	20.000	ng	-0.01
21) Naphthalene-d8	7.916	136	475275	20.000	ng	-0.01
39) Acenaphthene-d10	9.669	164	191500	20.000	ng	-0.01
64) Phenanthrene-d10	11.151	188	289080	20.000	ng	0.00
76) Chrysene-d12	13.780	240	149641	20.000	ng	-0.01
86) Perylene-d12	15.168	264	177493	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.245	112	740252	121.029	ng	0.00
7) Phenol-d6	6.281	99	939969	122.825	ng	-0.01
23) Nitrobenzene-d5	7.204	82	604130	64.939	ng	-0.01
42) 2,4,6-Tribromophenol	10.457	330	166099	90.520	ng	-0.01
45) 2-Fluorobiphenyl	8.998	172	773889	58.848	ng	-0.01
79) Terphenyl-d14	12.733	244	517748	57.313	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.204	70	83003	16.073	ng	# 72
25) Isophorone	7.204	82	604123	40.290	ng	# 66
31) Naphthalene	7.939	128	528114	21.568	ng	99
33) 4-Chloroaniline	7.939	127	67992	7.301	ng	# 31
35) Caprolactam	8.628	113	4148	2.215	ng	# 1
37) 2-Methylnaphthalene	8.628	142	155626	9.969	ng	98
38) 1-Methylnaphthalene	8.728	142	85211	5.682	ng	100
46) 1,1'-Biphenyl	9.092	154	41618	2.910	ng	99
50) Dimethylphthalate	9.669	163	35159	2.658	ng	# 1
51) 2,6-Dinitrotoluene	9.669	165	28218	10.200	ng	# 16
52) Acenaphthene	9.698	154	133563	11.719	ng	99
55) Dibenzofuran	9.875	168	190244	12.001	ng	99
56) 4-Nitrophenol	9.875	139	84726	37.736	ng	# 1
58) Fluorene	10.216	166	185552	14.312	ng	99
67) 4-Bromophenyl-phenylether	10.457	248	10734	3.366	ng	# 1
71) Phenanthrene	11.175	178	588014	36.230	ng	99
72) Anthracene	11.222	178	61935	3.954	ng	99
75) Fluoranthene	12.357	202	240552	15.338	ng	96
78) Pyrene	12.580	202	153684	11.740	ng	99
81) Benzo(a)anthracene	13.768	228	29722	2.986	ng	100
83) Chrysene	13.804	228	24037	2.543	ng	96
88) Benzo(b)fluoranthene	14.780	252	24215	2.090	ng	# 98
89) Benzo(k)fluoranthene	14.780	252	24215	2.125	ng	98

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

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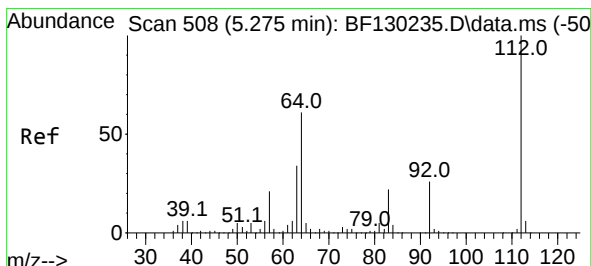
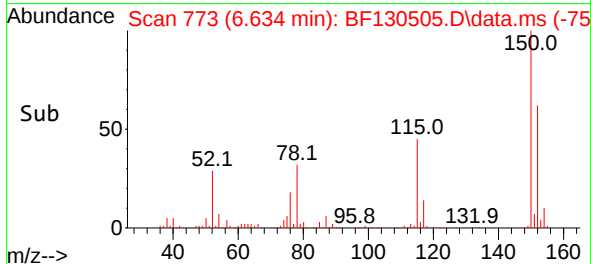
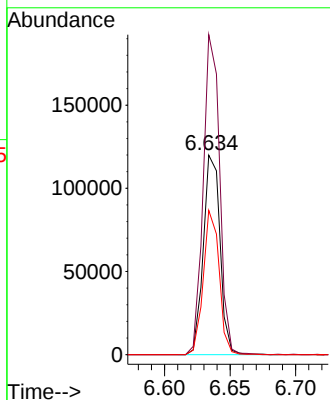
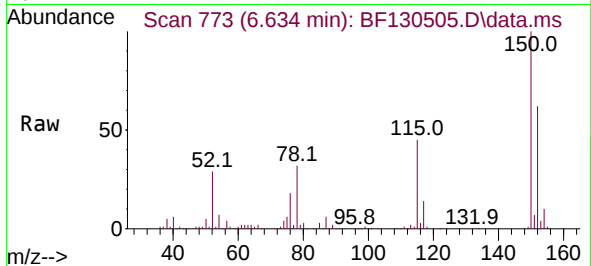




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.634 min Scan# 71
Delta R.T. -0.011 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

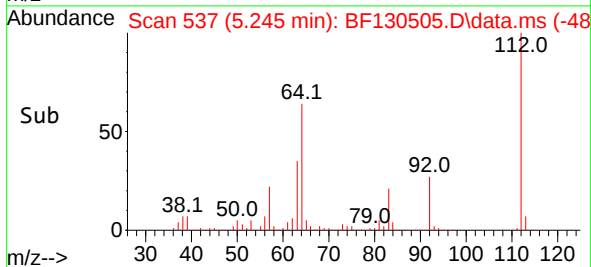
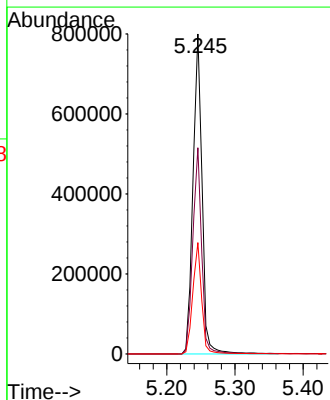
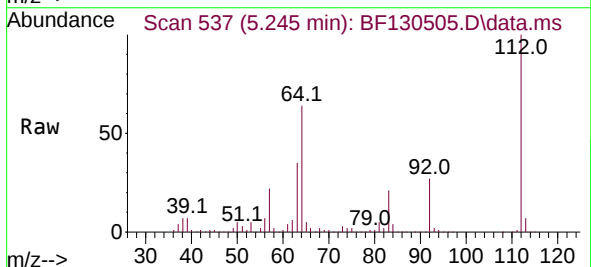
Instrument :
BNA_F
ClientSampleId :
SOIL-003-0930

Tgt Ion:152 Resp: 106085
Ion Ratio Lower Upper
152 100
150 160.4 122.8 184.2
115 72.3 53.8 80.8



#5
2-Fluorophenol
Concen: 121.029 ng
RT: 5.245 min Scan# 537
Delta R.T. 0.000 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Tgt Ion:112 Resp: 740252
Ion Ratio Lower Upper
112 100
64 64.5 51.4 77.0
63 34.8 28.8 43.2

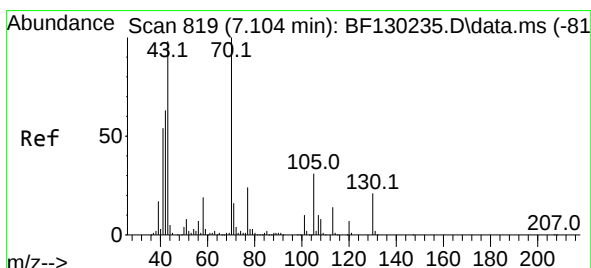
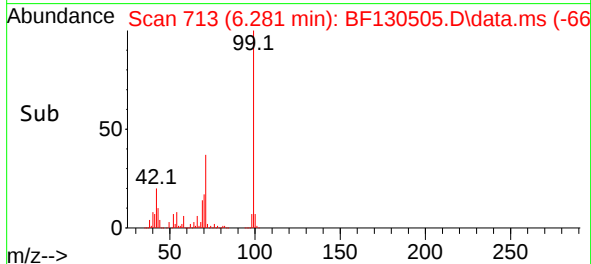
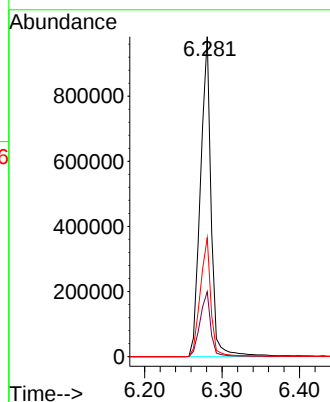
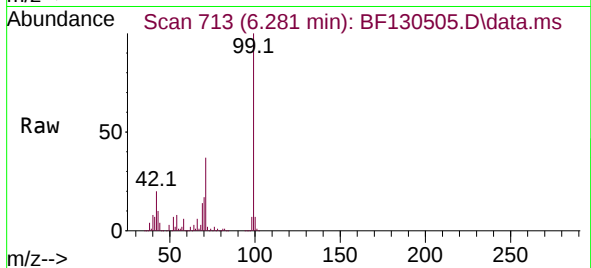




#7
Phenol-d6
Concen: 122.825 ng
RT: 6.281 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

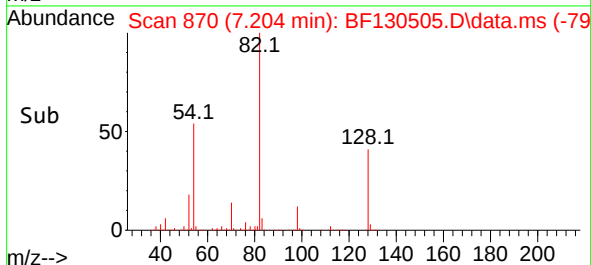
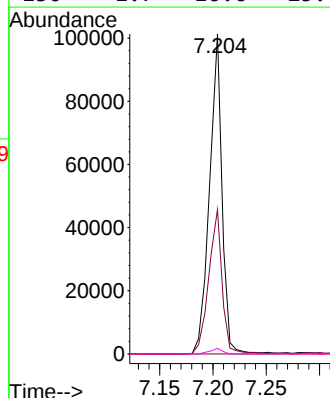
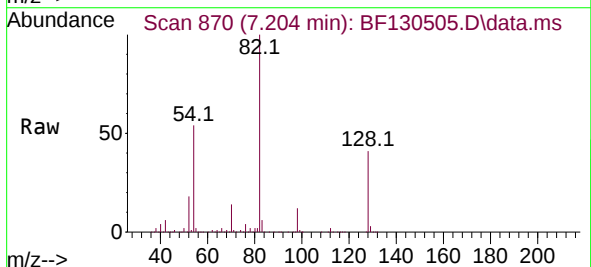
Instrument :
BNA_F
ClientSampleId :
SOIL-003-0930

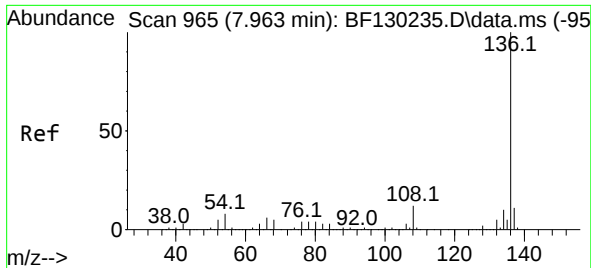
Tgt Ion: 99 Resp: 939969
Ion Ratio Lower Upper
99 100
42 20.3 17.0 25.6
71 37.1 32.3 48.5



#19
n-Nitroso-di-n-propylamine
Concen: 16.073 ng
RT: 7.204 min Scan# 870
Delta R.T. 0.135 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Tgt Ion: 70 Resp: 83003
Ion Ratio Lower Upper
70 100
42 45.1 50.8 76.2#
101 0.0 8.2 12.4#
130 1.7 16.6 25.0#



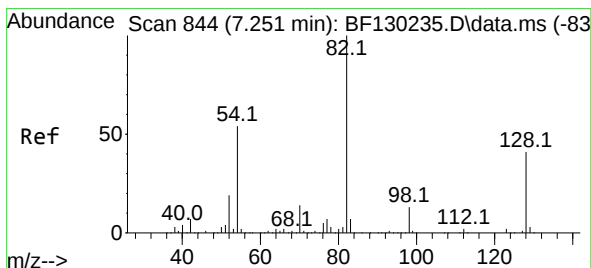
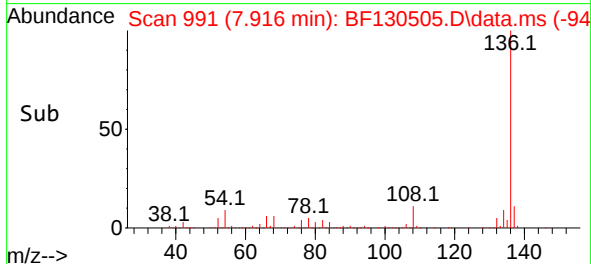
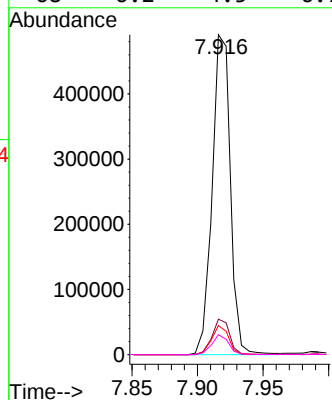
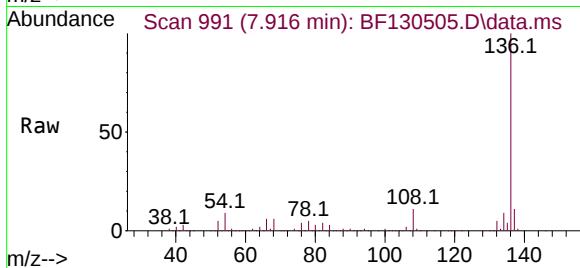


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.916 min Scan# 991
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Instrument :
BNA_F
ClientSampleId :
SOIL-003-0930

Tgt Ion:136 Resp: 475275

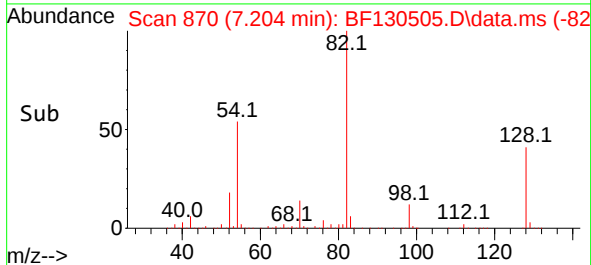
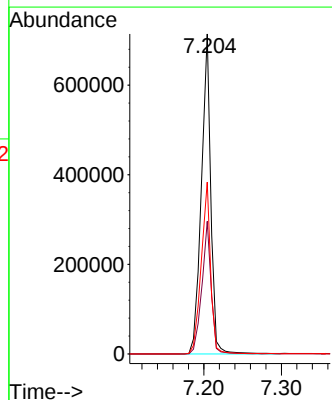
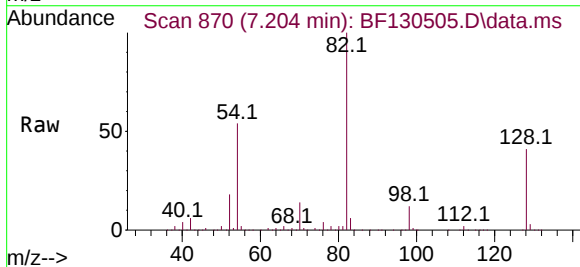
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.1	13.7
54	9.1	7.1	10.7
68	6.2	4.5	6.7

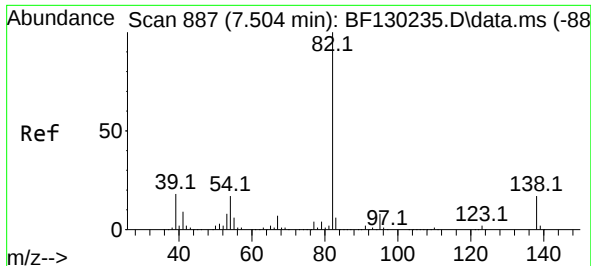


#23
Nitrobenzene-d5
Concen: 64.939 ng
RT: 7.204 min Scan# 870
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Tgt Ion: 82 Resp: 604130

Ion	Ratio	Lower	Upper
82	100		
128	41.4	32.6	49.0
54	53.7	43.8	65.6

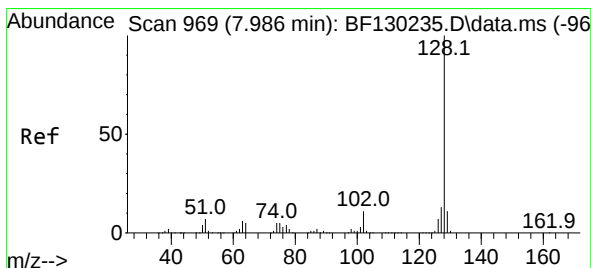
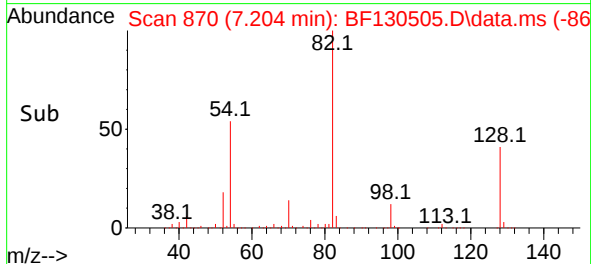
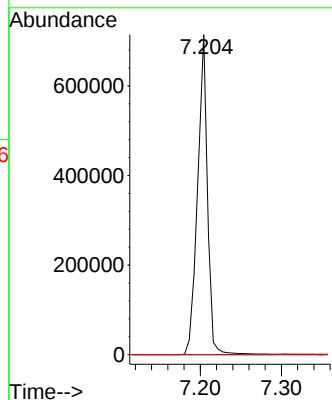
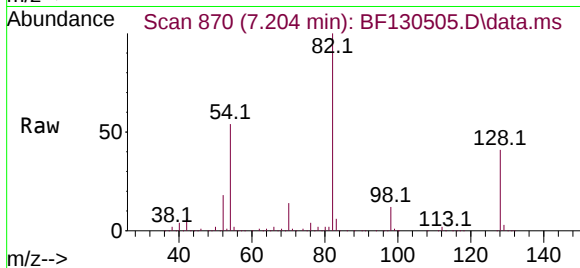




#25
Isophorone
Concen: 40.290 ng
RT: 7.204 min Scan# 81
Delta R.T. -0.271 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

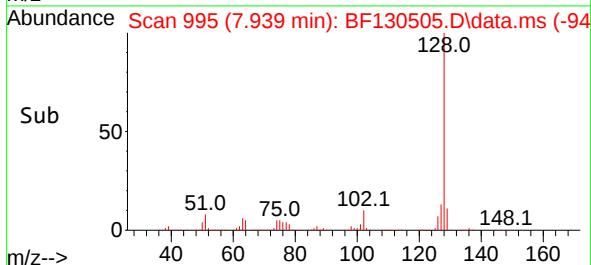
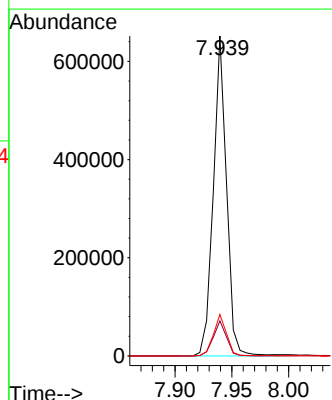
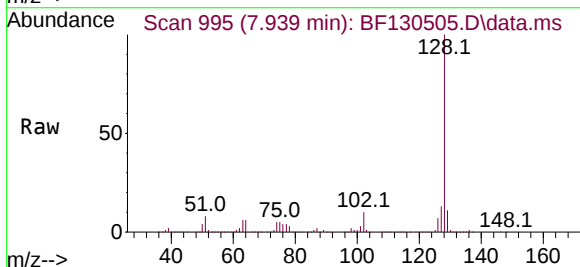
Instrument :
BNA_F
ClientSampleId :
SOIL-003-0930

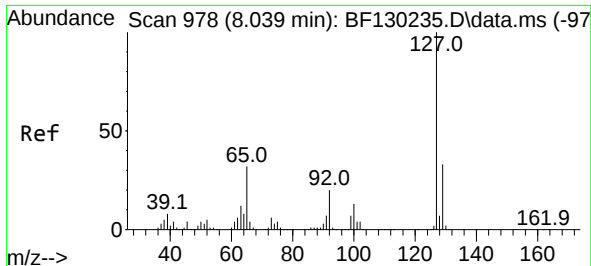
Tgt Ion: 82 Resp: 604123
Ion Ratio Lower Upper
82 100
95 0.0 6.4 9.6#
138 0.0 13.8 20.6#



#31
Naphthalene
Concen: 21.568 ng
RT: 7.939 min Scan# 995
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Tgt Ion: 128 Resp: 528114
Ion Ratio Lower Upper
128 100
129 10.9 9.1 13.7
127 12.9 10.6 16.0

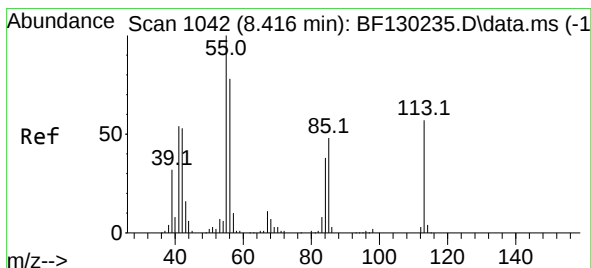
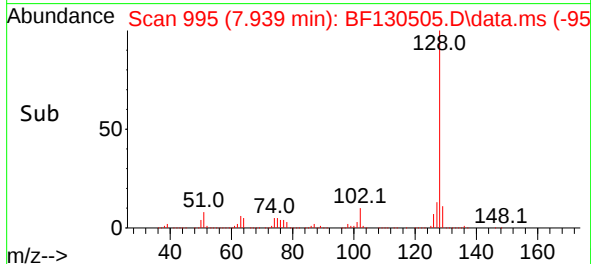
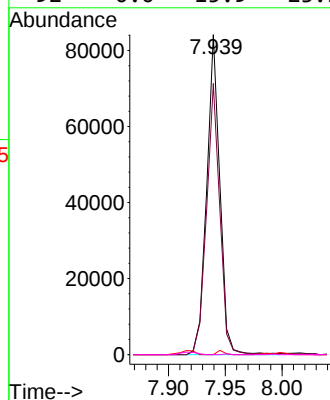
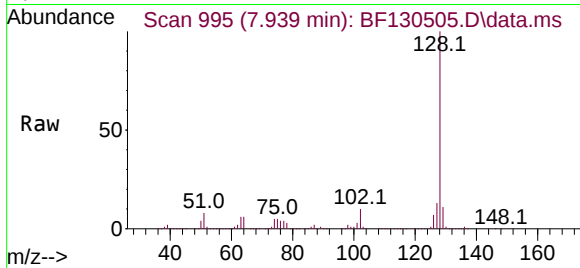




#33
4-Chloroaniline
Concen: 7.301 ng
RT: 7.939 min Scan# 995
Delta R.T. -0.065 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

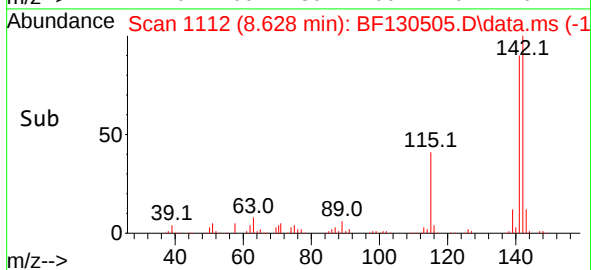
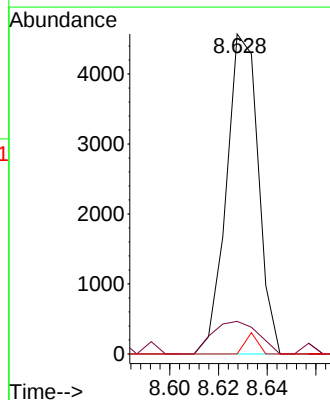
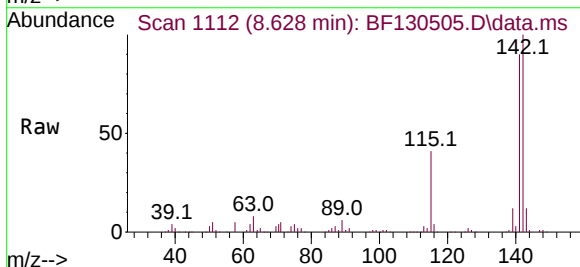
Instrument :
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ClientSampleId :
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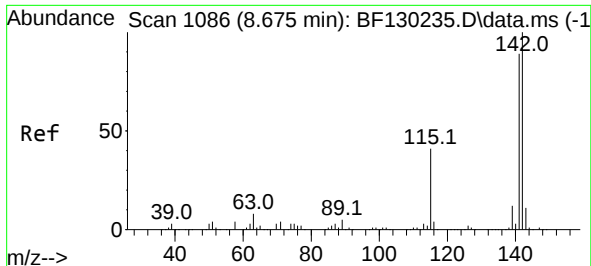
Tgt Ion:	127	Resp:	67992
Ion Ratio	Lower	Upper	
127	100		
129	84.7	25.6	38.4#
65	0.0	27.0	40.6#
92	0.0	15.9	23.9#



#35
Caprolactam
Concen: 2.215 ng
RT: 8.628 min Scan# 1112
Delta R.T. 0.241 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Tgt Ion:	113	Resp:	4148
Ion Ratio	Lower	Upper	
113	100		
55	10.2	155.4	195.4#
56	0.0	120.4	160.4#





#37

2-Methylnaphthalene

Concen: 9.969 ng

RT: 8.628 min Scan# 1112

Delta R.T. -0.012 min

Lab File: BF130505.D

Acq: 03 Oct 2022 18:30

Instrument :

BNA_F

ClientSampleId :

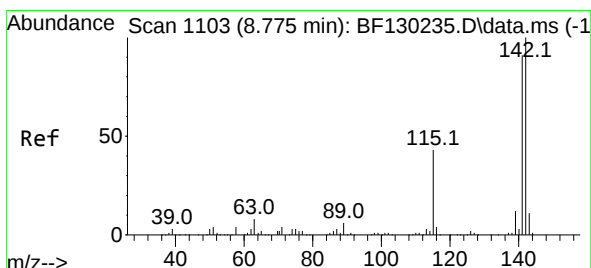
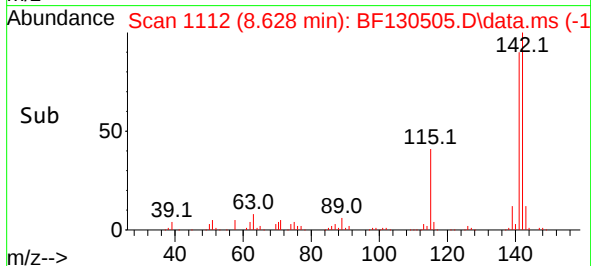
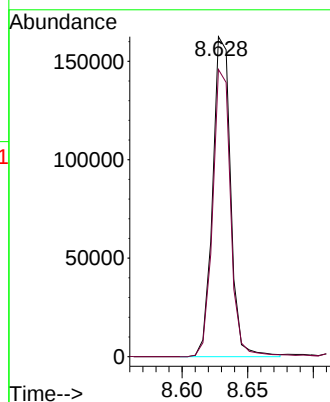
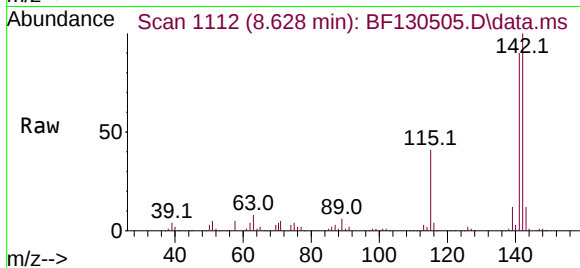
SOIL-003-0930

Tgt Ion:142 Resp: 155626

Ion Ratio Lower Upper

142 100

141 89.7 70.0 105.0



#38

1-Methylnaphthalene

Concen: 5.682 ng

RT: 8.728 min Scan# 1129

Delta R.T. -0.012 min

Lab File: BF130505.D

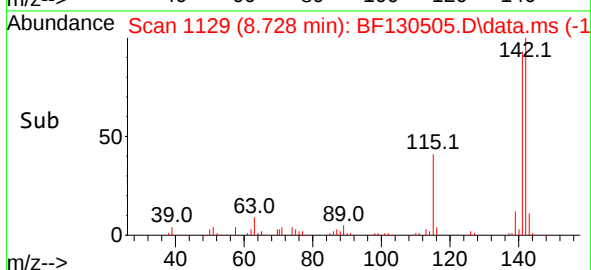
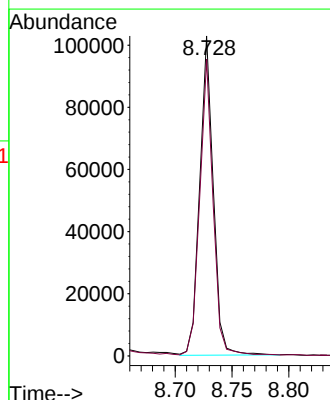
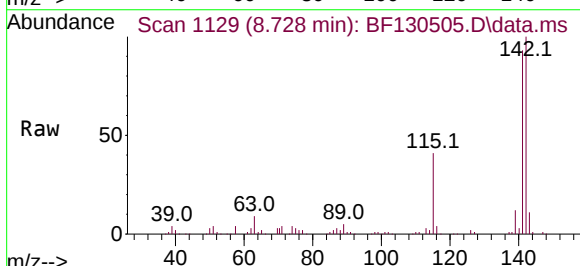
Acq: 03 Oct 2022 18:30

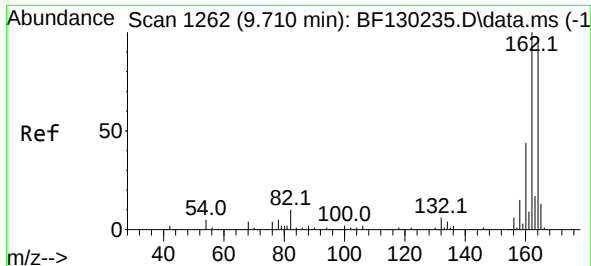
Tgt Ion:142 Resp: 85211

Ion Ratio Lower Upper

142 100

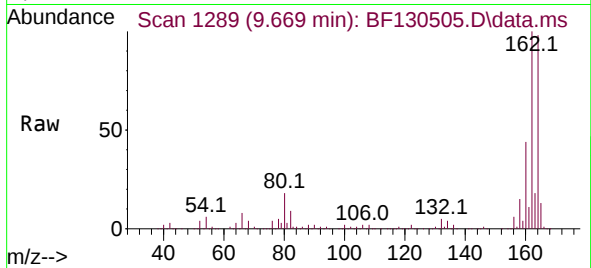
141 92.7 73.8 110.8



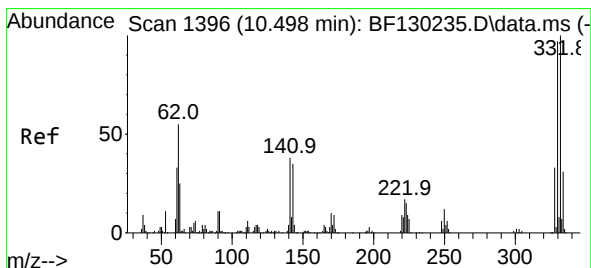
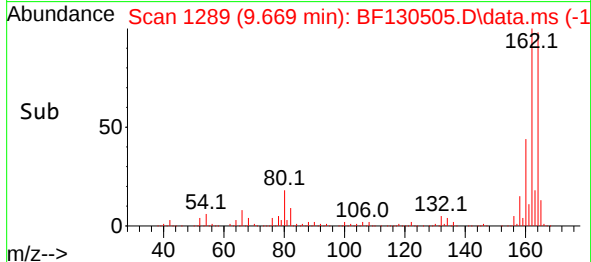
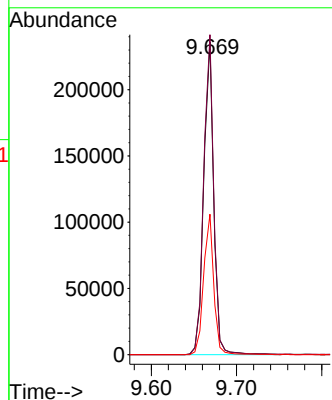


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.669 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Instrument :
BNA_F
ClientSampleId :
SOIL-003-0930

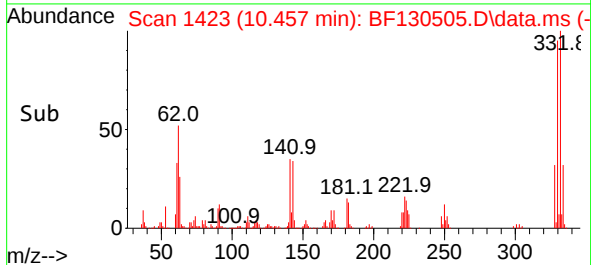
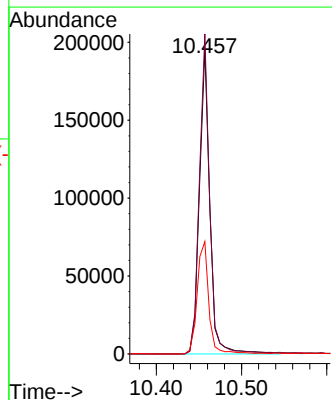
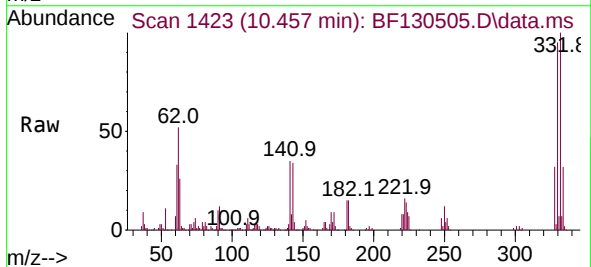


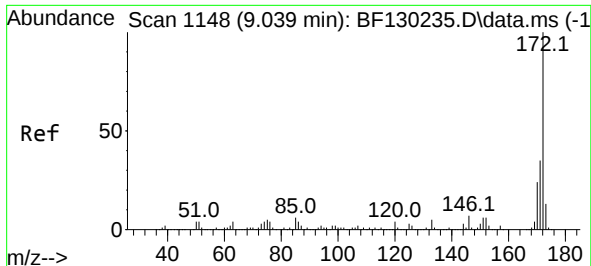
Tgt Ion:164 Resp: 191500
Ion Ratio Lower Upper
164 100
162 102.3 81.4 122.0
160 44.9 36.2 54.4



#42
2,4,6-Tribromophenol
Concen: 90.520 ng
RT: 10.457 min Scan# 1423
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Tgt Ion:330 Resp: 166099
Ion Ratio Lower Upper
330 100
332 104.5 83.4 125.2
141 41.1 34.0 51.0





#45

2-Fluorobiphenyl

Concen: 58.848 ng

RT: 8.998 min Scan# 1119

Delta R.T. -0.012 min

Lab File: BF130505.D

Acq: 03 Oct 2022 18:30

Instrument :

BNA_F

ClientSampleId :

SOIL-003-0930

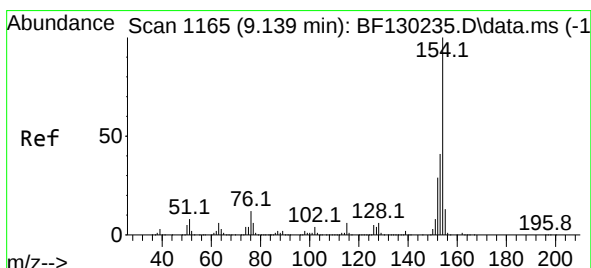
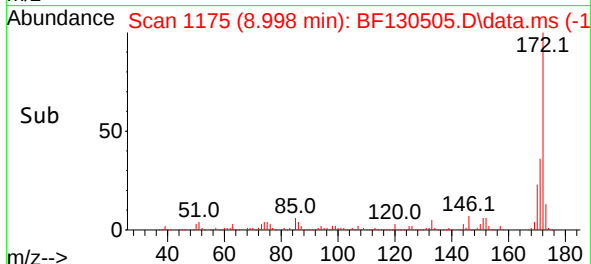
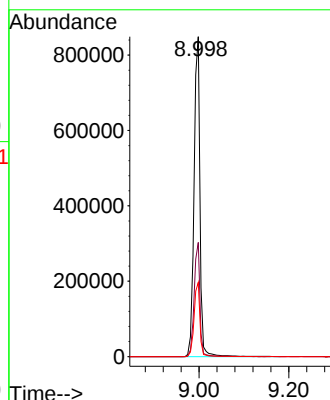
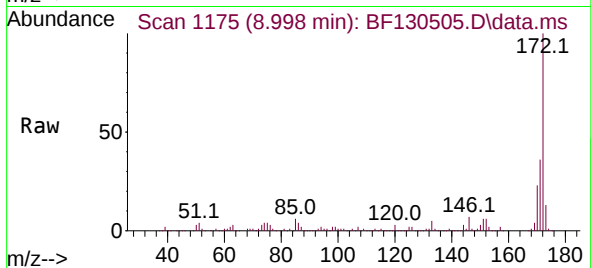
Tgt Ion:172 Resp: 773889

Ion Ratio Lower Upper

172 100

171 35.7 28.3 42.5

170 23.2 18.7 28.1



#46

1,1'-Biphenyl

Concen: 2.910 ng

RT: 9.092 min Scan# 1191

Delta R.T. -0.012 min

Lab File: BF130505.D

Acq: 03 Oct 2022 18:30

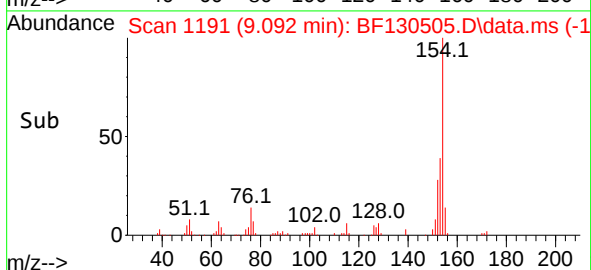
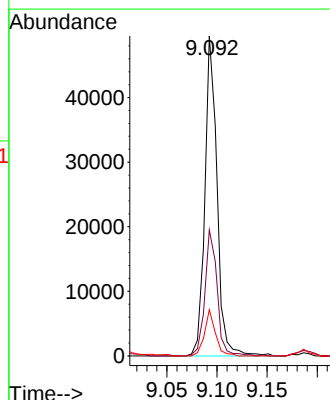
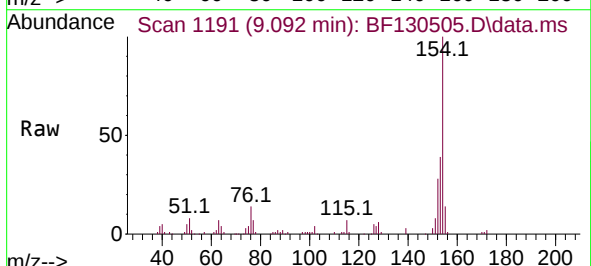
Tgt Ion:154 Resp: 41618

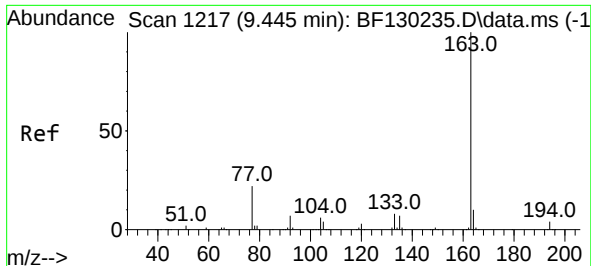
Ion Ratio Lower Upper

154 100

153 39.4 20.0 60.0

76 14.4 0.0 33.3

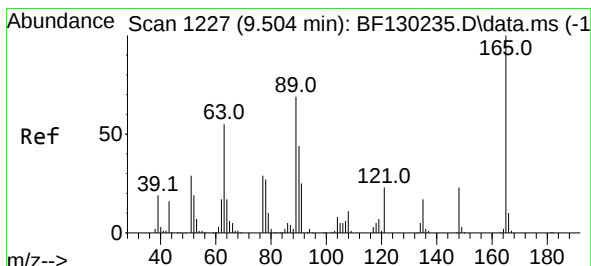
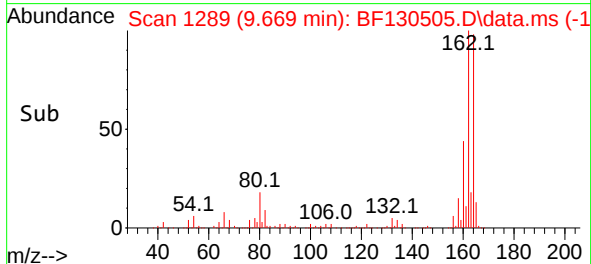
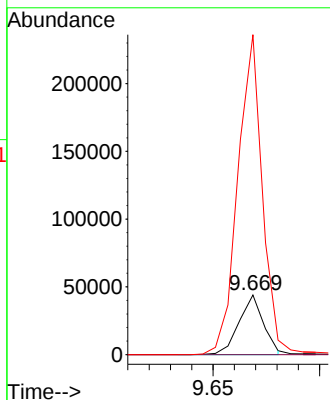
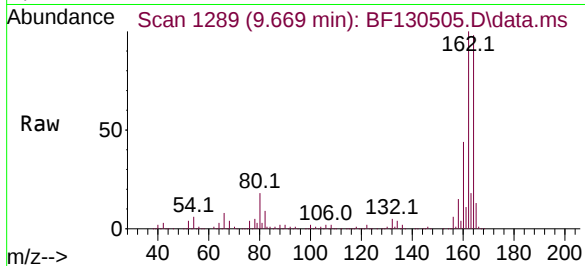




#50
Dimethylphthalate
Concen: 2.658 ng
RT: 9.669 min Scan# 1217
Delta R.T. 0.253 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

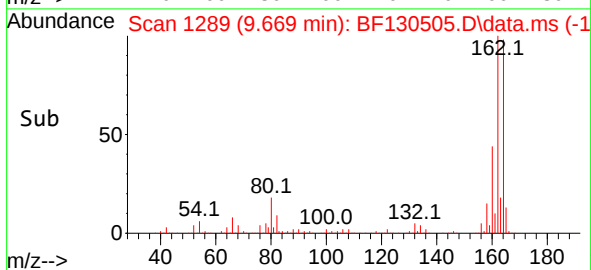
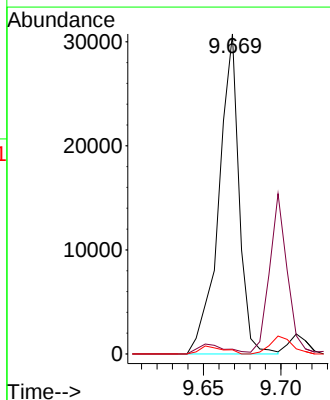
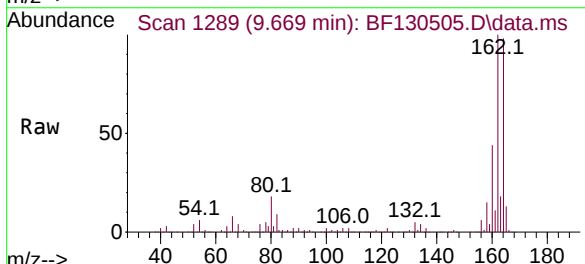
Instrument :
BNA_F
ClientSampleId :
SOIL-003-0930

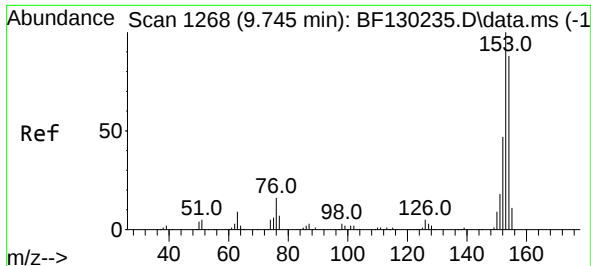
Tgt Ion:163 Resp: 35159
Ion Ratio Lower Upper
163 100
194 0.0 2.8 4.2#
164 536.4 8.2 12.2#



#51
2,6-Dinitrotoluene
Concen: 10.200 ng
RT: 9.669 min Scan# 1289
Delta R.T. 0.194 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Tgt Ion:165 Resp: 28218
Ion Ratio Lower Upper
165 100
63 1.5 58.8 88.2#
89 1.3 54.5 81.7#

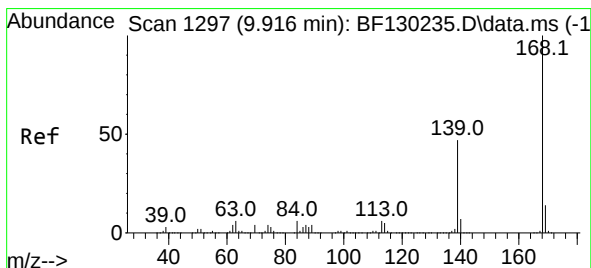
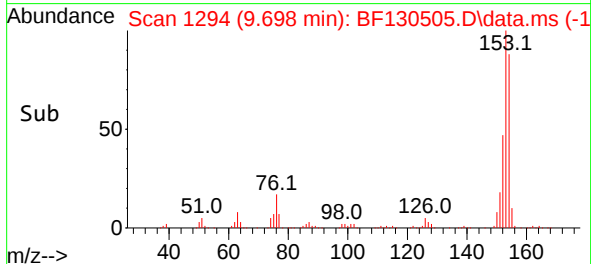
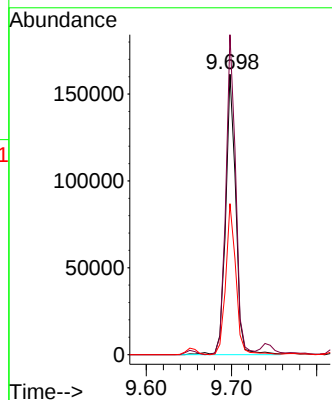
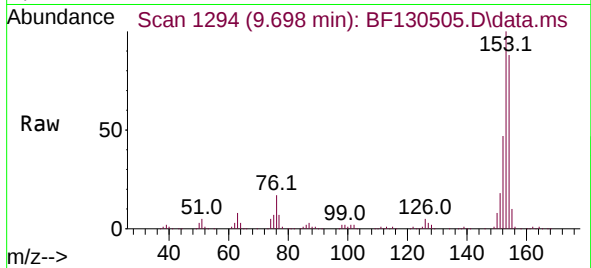




#52
Acenaphthene
Concen: 11.719 ng
RT: 9.698 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

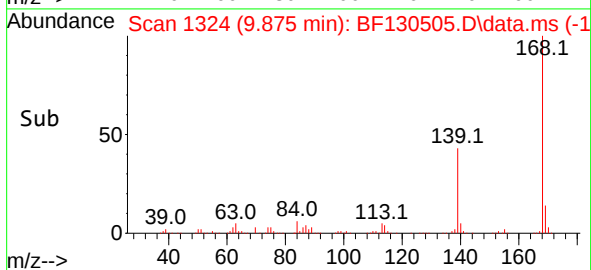
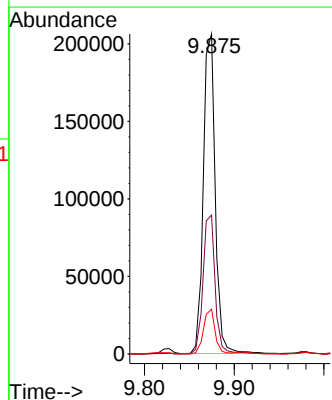
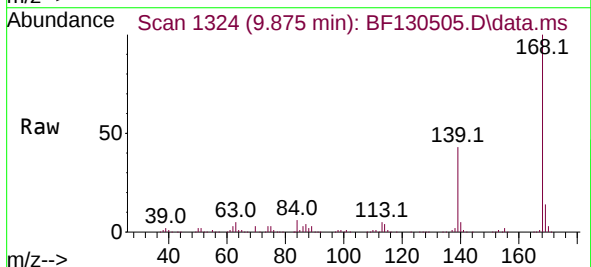
Instrument :
BNA_F
ClientSampleId :
SOIL-003-0930

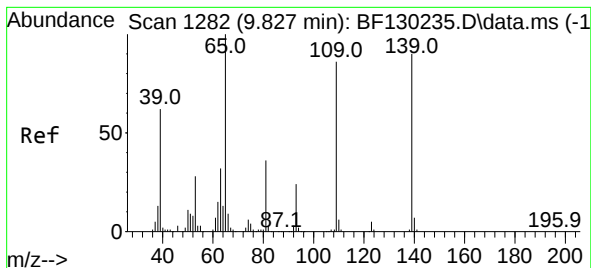
Tgt Ion:154 Resp: 133563
Ion Ratio Lower Upper
154 100
153 114.1 90.6 136.0
152 53.8 43.8 65.6



#55
Dibenzofuran
Concen: 12.001 ng
RT: 9.875 min Scan# 1324
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Tgt Ion:168 Resp: 190244
Ion Ratio Lower Upper
168 100
139 43.4 35.0 52.4
169 14.0 10.9 16.3





#56

4-Nitrophenol

Concen: 37.736 ng

RT: 9.875 min Scan# 1324

Delta R.T. 0.065 min

Lab File: BF130505.D

Acq: 03 Oct 2022 18:30

Instrument :

BNA_F

ClientSampleId :

SOIL-003-0930

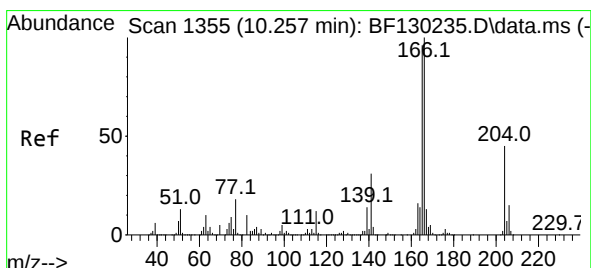
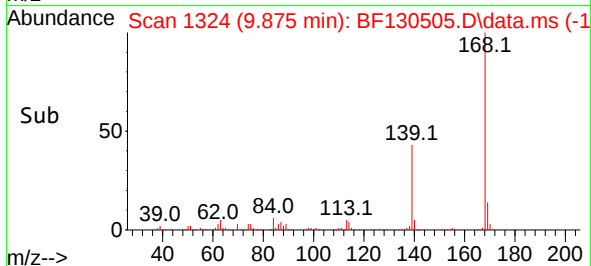
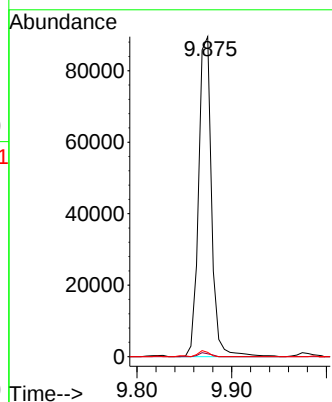
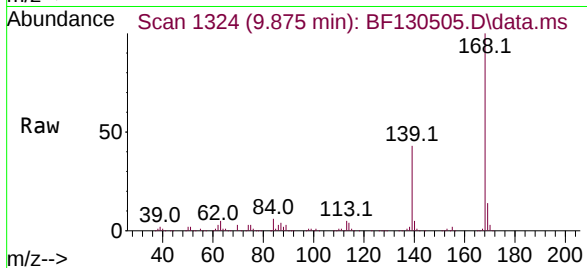
Tgt Ion:139 Resp: 84726

Ion Ratio Lower Upper

139 100

109 0.9 72.2 112.2#

65 1.3 97.7 137.7#



#58

Fluorene

Concen: 14.312 ng

RT: 10.216 min Scan# 1382

Delta R.T. -0.012 min

Lab File: BF130505.D

Acq: 03 Oct 2022 18:30

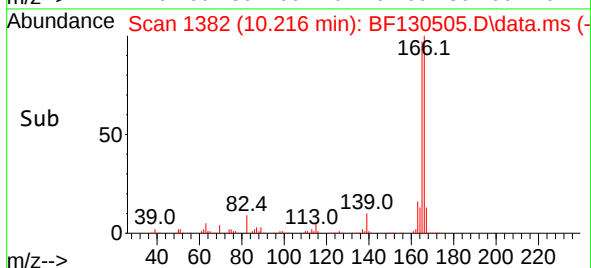
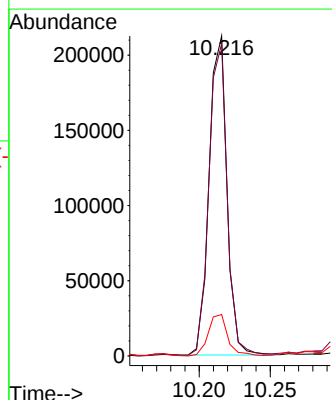
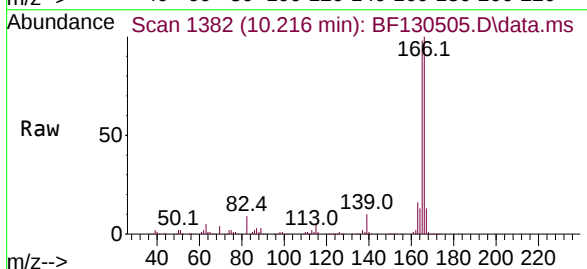
Tgt Ion:166 Resp: 185552

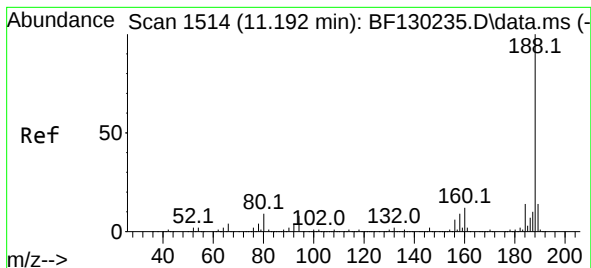
Ion Ratio Lower Upper

166 100

165 97.6 78.8 118.2

167 12.9 10.6 15.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.151 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF130505.D

Acq: 03 Oct 2022 18:30

Instrument :

BNA_F

ClientSampleId :

SOIL-003-0930

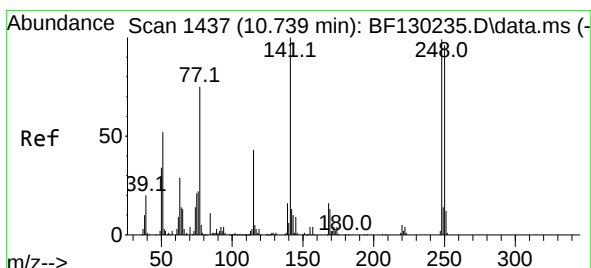
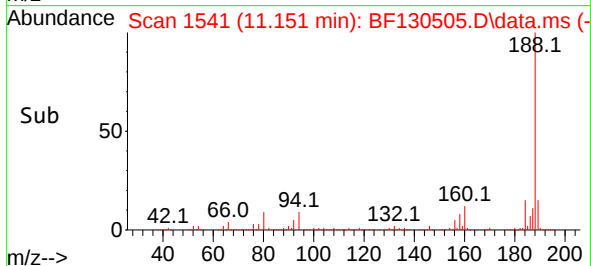
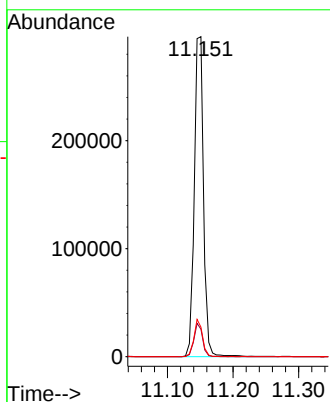
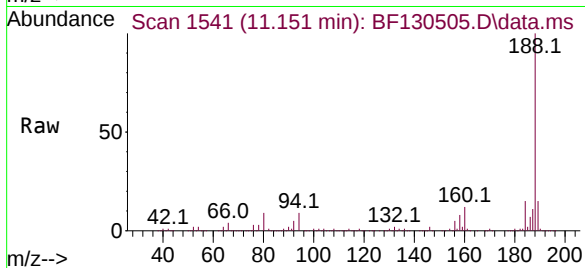
Tgt Ion:188 Resp: 289080

Ion Ratio Lower Upper

188 100

94 8.6 7.4 11.2

80 9.2 7.9 11.9



#67

4-Bromophenyl-phenylether

Concen: 3.366 ng

RT: 10.457 min Scan# 1423

Delta R.T. -0.253 min

Lab File: BF130505.D

Acq: 03 Oct 2022 18:30

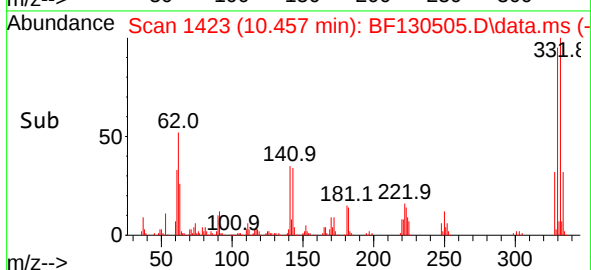
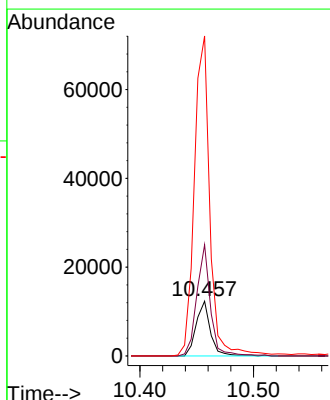
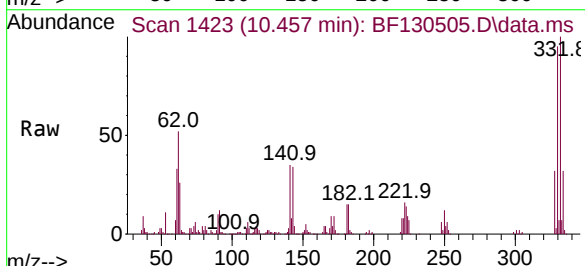
Tgt Ion:248 Resp: 10734

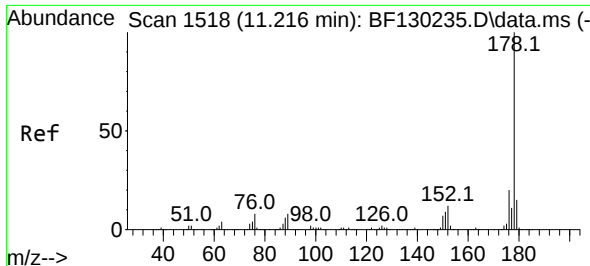
Ion Ratio Lower Upper

248 100

250 203.1 80.0 120.0#

141 585.1 68.5 102.7#

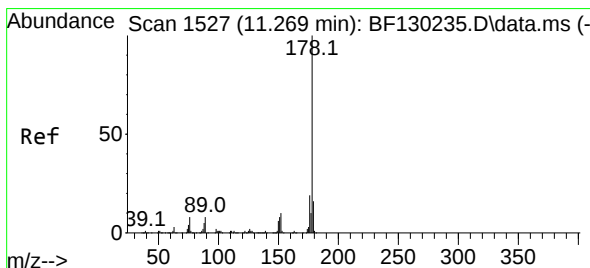
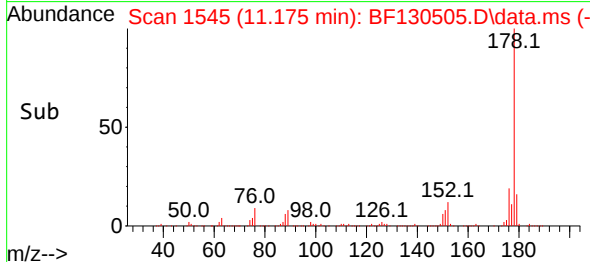
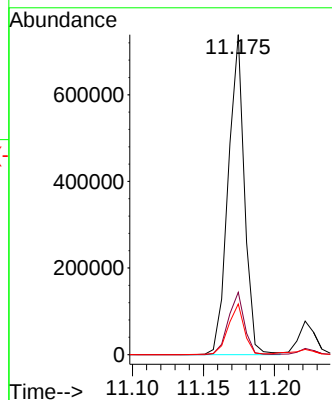
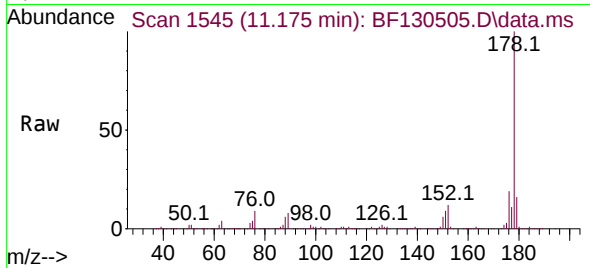




#71
Phenanthrene
Concen: 36.230 ng
RT: 11.175 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

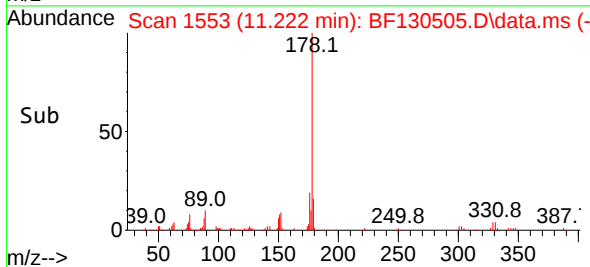
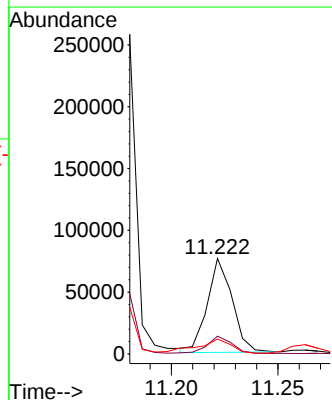
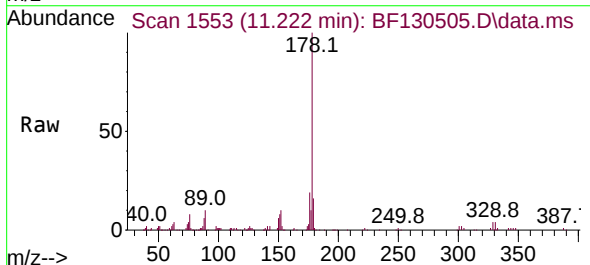
Instrument :
BNA_F
ClientSampleId :
SOIL-003-0930

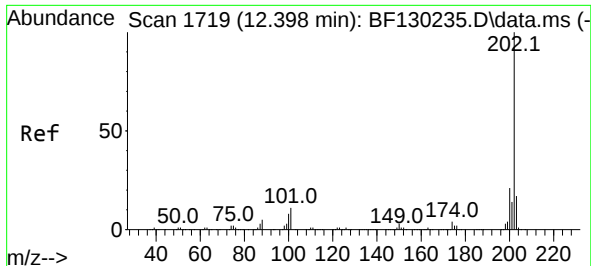
Tgt Ion:178 Resp: 588014
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.0
179 15.8 12.4 18.6



#72
Anthracene
Concen: 3.954 ng
RT: 11.222 min Scan# 1553
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Tgt Ion:178 Resp: 61935
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.5 12.7 19.1

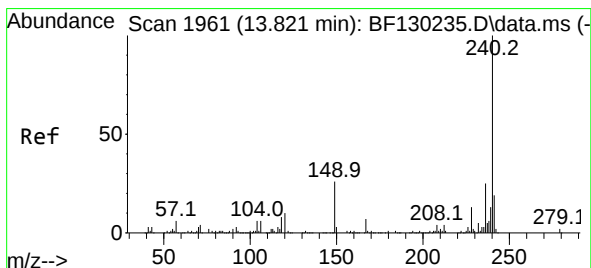
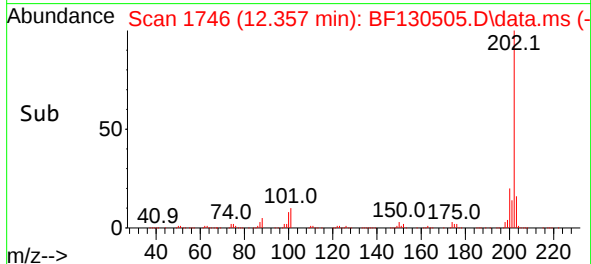
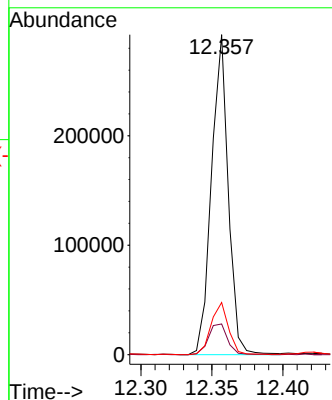
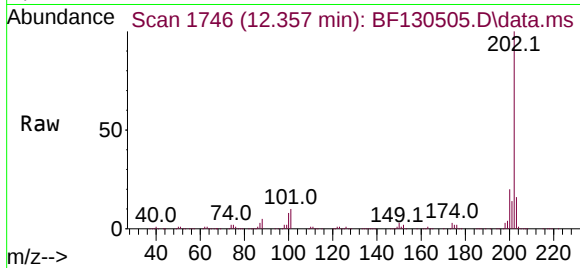




#75
Fluoranthene
Concen: 15.338 ng
RT: 12.357 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

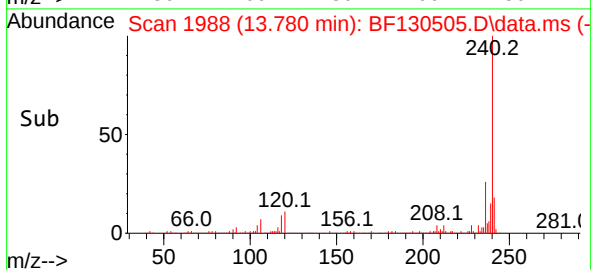
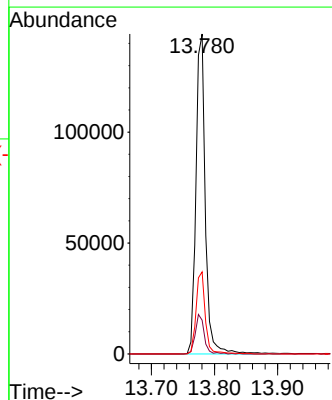
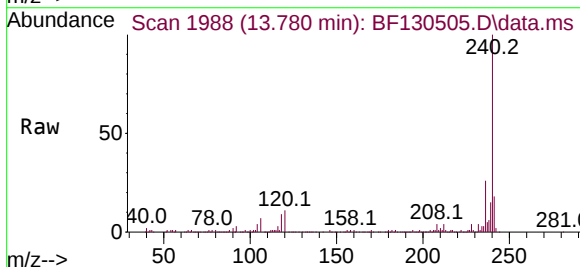
Instrument :
BNA_F
ClientSampleId :
SOIL-003-0930

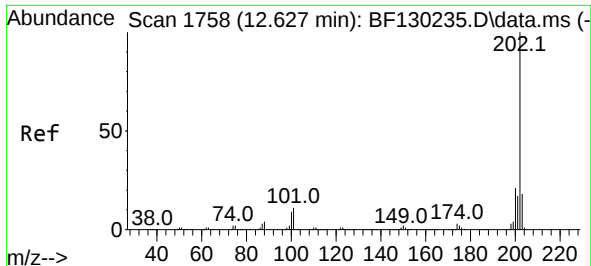
Tgt Ion:202 Resp: 240552
Ion Ratio Lower Upper
202 100
101 9.6 0.0 31.8
203 16.3 0.0 37.8



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.780 min Scan# 1988
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Tgt Ion:240 Resp: 149641
Ion Ratio Lower Upper
240 100
120 10.5 8.7 13.1
236 25.6 20.9 31.3

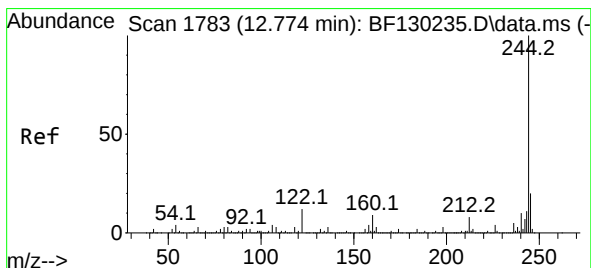
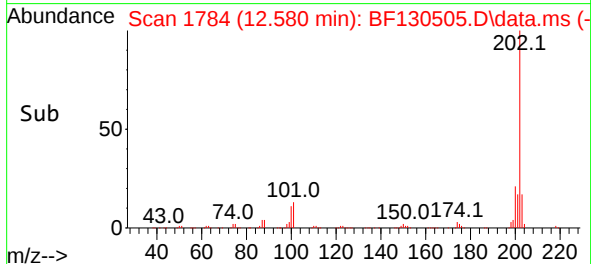
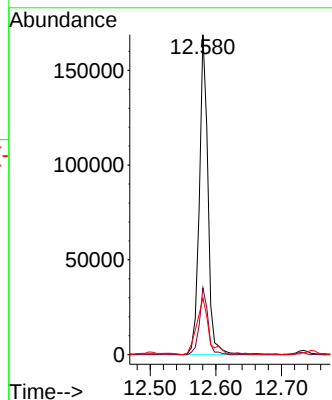
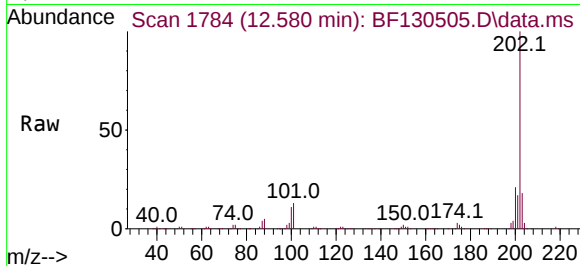




#78
Pyrene
Concen: 11.740 ng
RT: 12.580 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

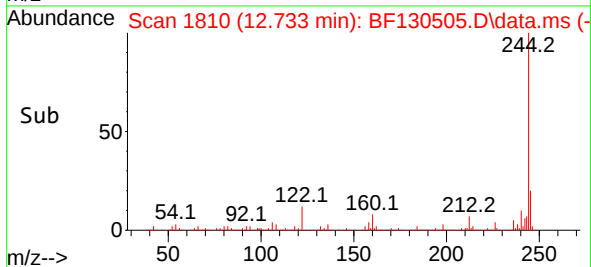
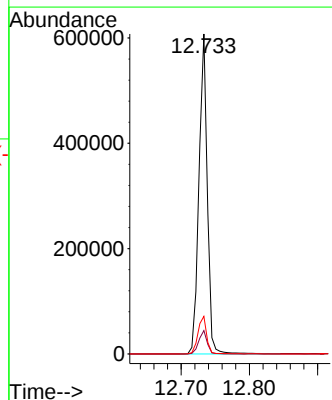
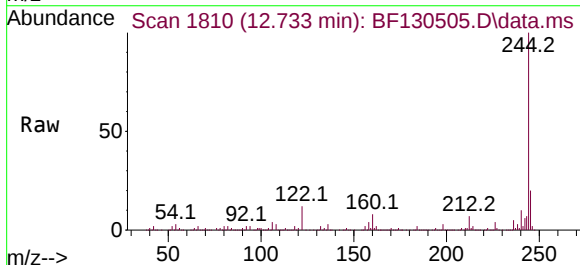
Instrument :
BNA_F
ClientSampleId :
SOIL-003-0930

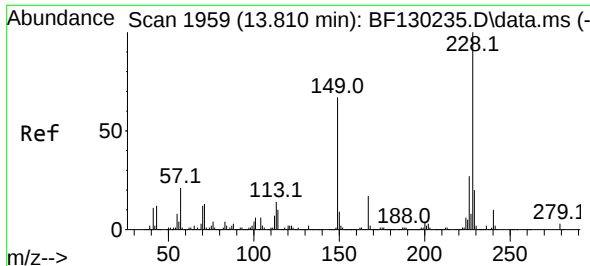
Tgt Ion:202 Resp: 153684
Ion Ratio Lower Upper
202 100
200 20.9 17.2 25.8
203 17.7 14.3 21.5



#79
Terphenyl-d14
Concen: 57.313 ng
RT: 12.733 min Scan# 1810
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Tgt Ion:244 Resp: 517748
Ion Ratio Lower Upper
244 100
212 7.3 5.9 8.9
122 11.7 8.5 12.7

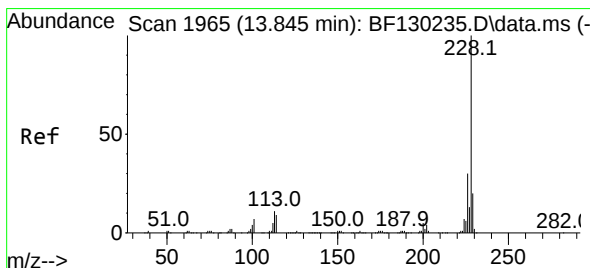
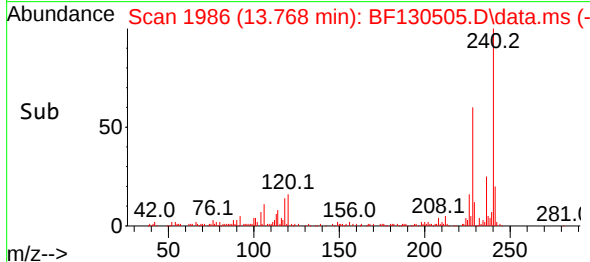
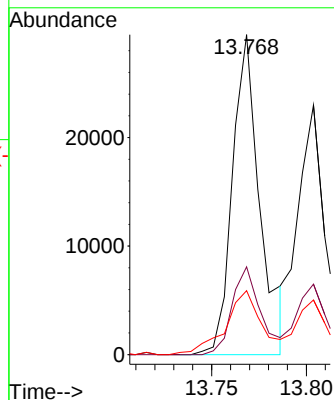
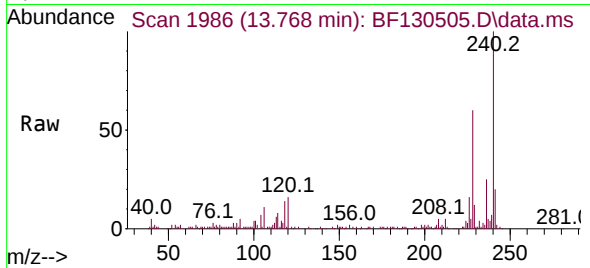




#81
Benzo(a)anthracene
Concen: 2.986 ng
RT: 13.768 min Scan# 1959
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

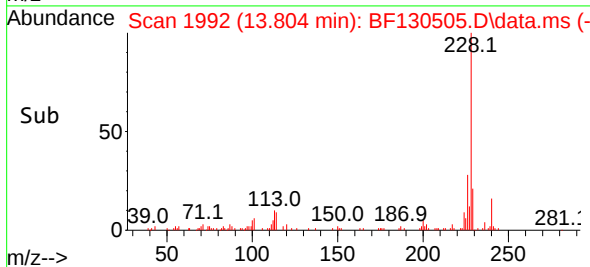
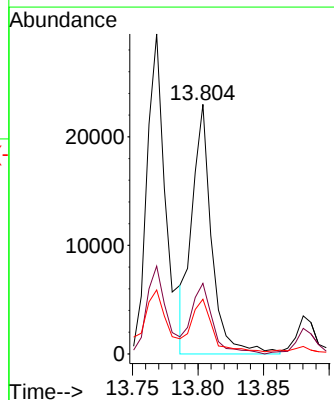
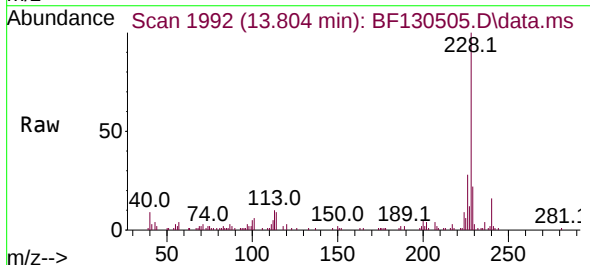
Instrument :
BNA_F
ClientSampleId :
SOIL-003-0930

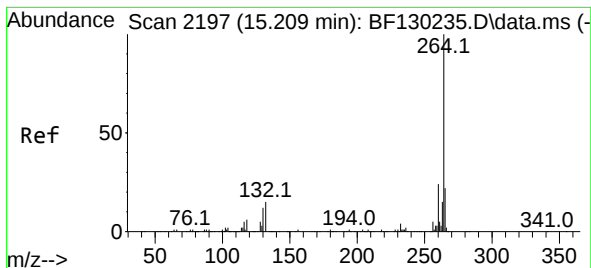
Tgt Ion:228 Resp: 29722
Ion Ratio Lower Upper
228 100
226 27.4 21.9 32.9
229 20.0 16.1 24.1



#83
Chrysene
Concen: 2.543 ng
RT: 13.804 min Scan# 1992
Delta R.T. -0.012 min
Lab File: BF130505.D
Acq: 03 Oct 2022 18:30

Tgt Ion:228 Resp: 24037
Ion Ratio Lower Upper
228 100
226 28.2 23.8 35.8
229 21.9 15.3 22.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.168 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF130505.D

Acq: 03 Oct 2022 18:30

Instrument :

BNA_F

ClientSampleId :

SOIL-003-0930

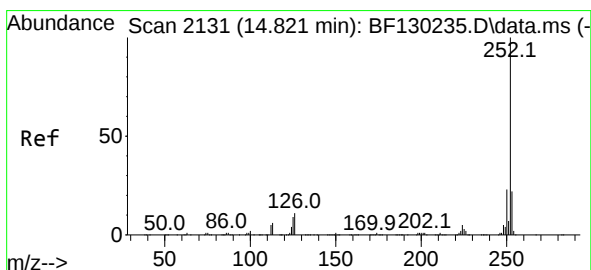
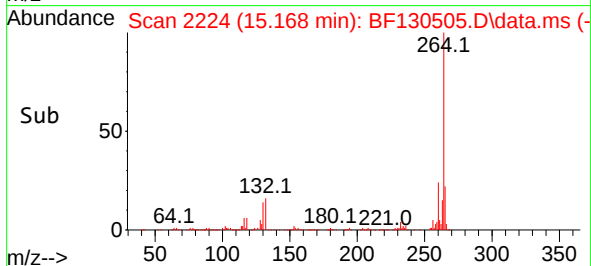
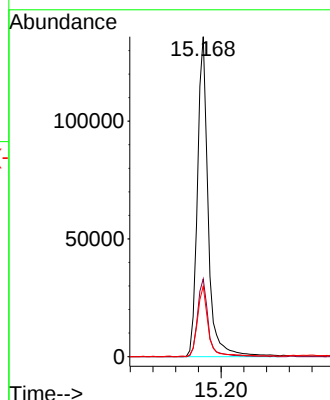
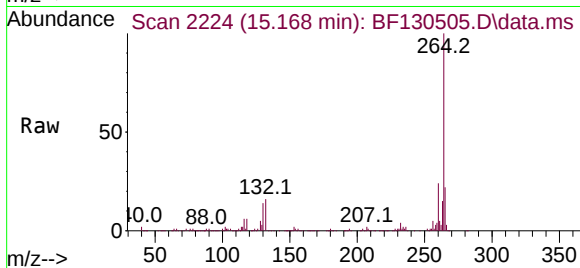
Tgt Ion:264 Resp: 177493

Ion Ratio Lower Upper

264 100

260 24.3 19.3 28.9

265 22.0 17.0 25.4



#88

Benzo(b)fluoranthene

Concen: 2.090 ng

RT: 14.780 min Scan# 2158

Delta R.T. -0.006 min

Lab File: BF130505.D

Acq: 03 Oct 2022 18:30

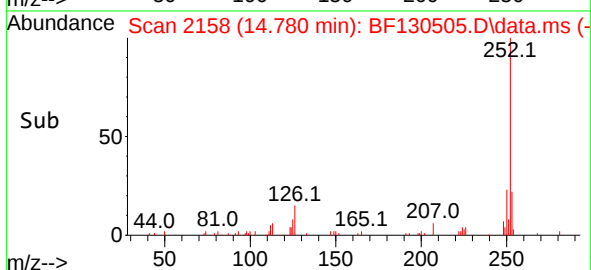
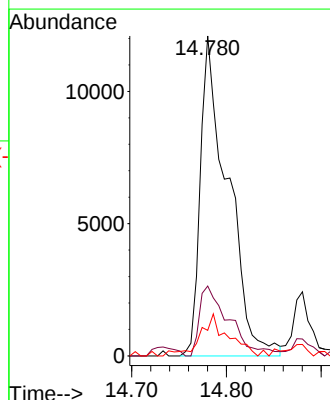
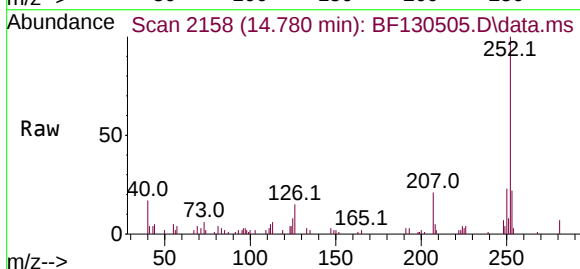
Tgt Ion:252 Resp: 24215

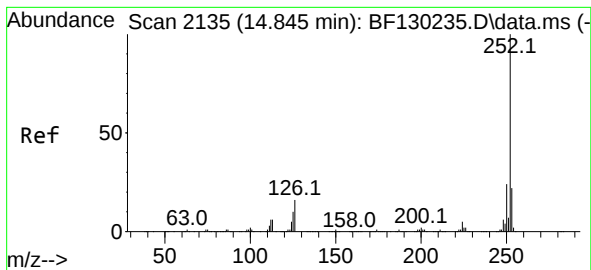
Ion Ratio Lower Upper

252 100

253 21.8 17.7 26.5

125 8.0 8.1 12.1#





#89

Benzo(k)fluoranthene

Concen: 2.125 ng

RT: 14.780 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF130505.D

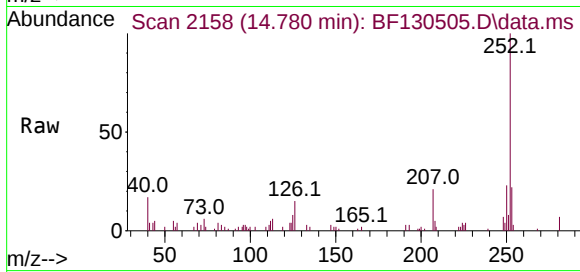
Acq: 03 Oct 2022 18:30

Instrument :

BNA_F

ClientSampleId :

SOIL-003-0930



Tgt Ion:252 Resp: 24215

Ion Ratio Lower Upper

252 100

253 21.8 17.4 26.2

125 8.0 7.9 11.9

