

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072922\
 Data File : BF129461.D
 Acq On : 30 Jul 2022 01:37
 Operator : CG\JU
 Sample : N3964-03
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HMGP-SOIL-B

Quant Time: Jul 30 02:04:05 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 25 17:24:17 2022
 Response via : Initial Calibration

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

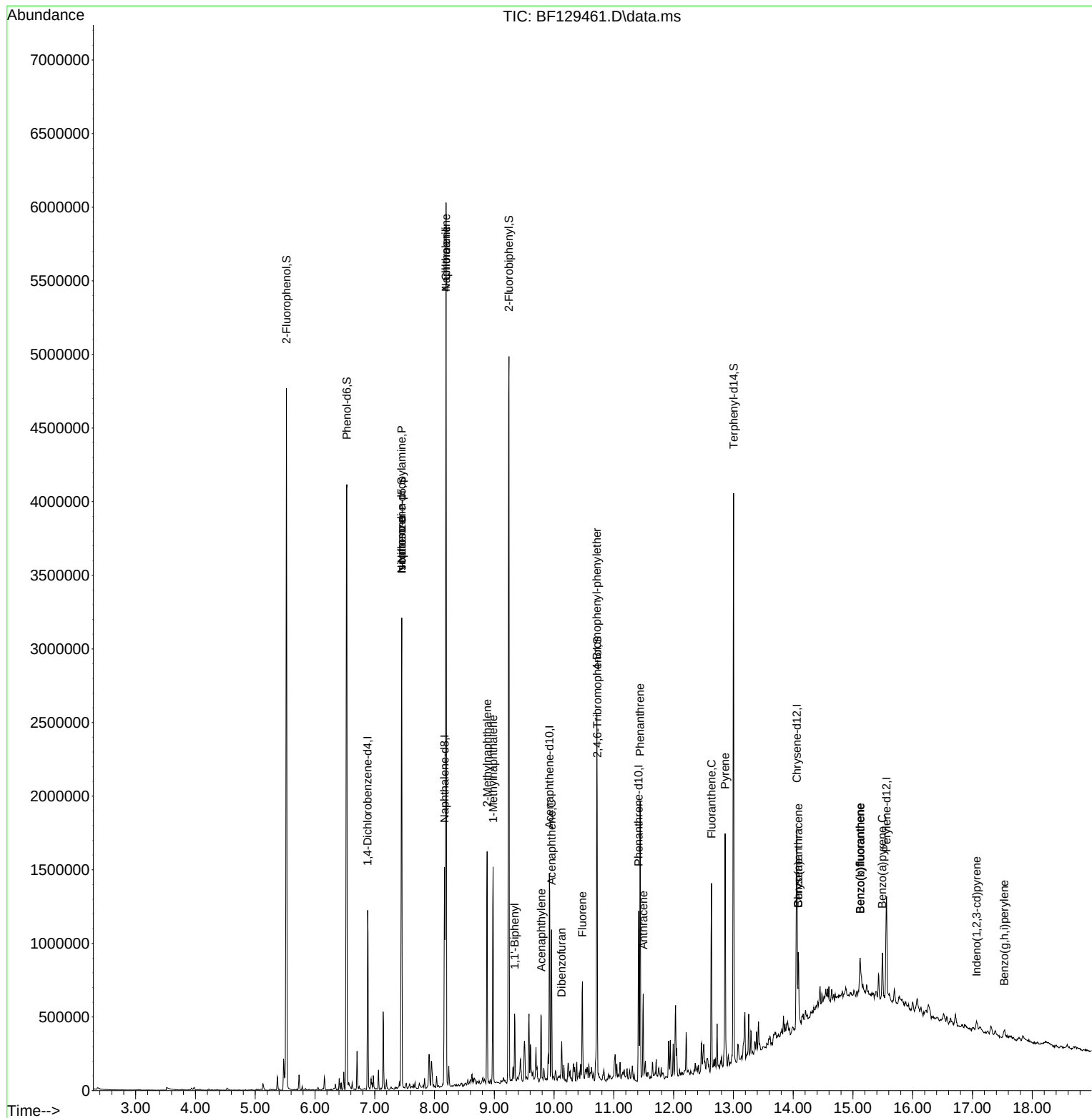
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	174722	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	652741	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	289474	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	391440	20.000	ng	0.00
76) Chrysene-d12	14.063	240	362785	20.000	ng	0.00
86) Perylene-d12	15.562	264	313038	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1267948	118.216	ng	0.02
7) Phenol-d6	6.534	99	1605670	119.101	ng	0.02
23) Nitrobenzene-d5	7.451	82	1018131	85.146	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	269278	96.756	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1564874	83.627	ng	0.00
79) Terphenyl-d14	13.004	244	1252667	65.142	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.451	70	136112	16.677	ng	# 74
25) Isophorone	7.451	82	1013061	47.265	ng	# 65
31) Naphthalene	8.192	128	2576102	77.679	ng	98
33) 4-Chloroaniline	8.192	127	345760	25.395	ng	# 32
37) 2-Methylnaphthalene	8.880	142	400328	18.576	ng	98
38) 1-Methylnaphthalene	8.980	142	369303	17.751	ng	98
46) 1,1'-Biphenyl	9.339	154	134984	6.390	ng	99
49) Acenaphthylene	9.786	152	113346	4.368	ng	98
52) Acenaphthene	9.957	154	179986	10.619	ng	99
55) Dibenzofuran	10.127	168	67079	2.871	ng	# 97
58) Fluorene	10.475	166	182065	9.739	ng	97
67) 4-Bromophenyl-phenylether	10.716	248	16637	3.881	ng	# 1
71) Phenanthrene	11.439	178	630922	29.527	ng	99
72) Anthracene	11.492	178	212950	10.141	ng	97
75) Fluoranthene	12.633	202	436754	20.173	ng	99
78) Pyrene	12.863	202	594318	19.590	ng	98
81) Benzo(a)anthracene	14.086	228	196633	7.935	ng	94
83) Chrysene	14.086	228	196633	8.419	ng	97
87) Indeno(1,2,3-cd)pyrene	17.068	276	42557	2.019	ng	95
88) Benzo(b)fluoranthene	15.121	252	187751	9.042	ng	# 89
89) Benzo(k)fluoranthene	15.121	252	187751	9.227	ng	# 89
90) Benzo(a)pyrene	15.492	252	134892	8.002	ng	# 93
92) Benzo(g,h,i)perylene	17.533	276	39907	2.276	ng	95

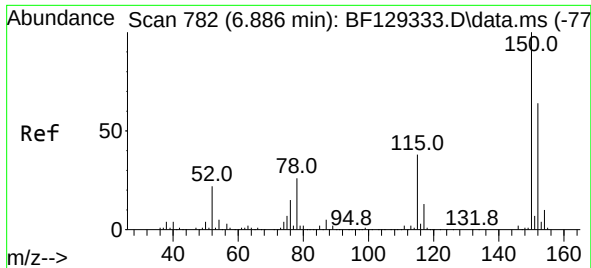
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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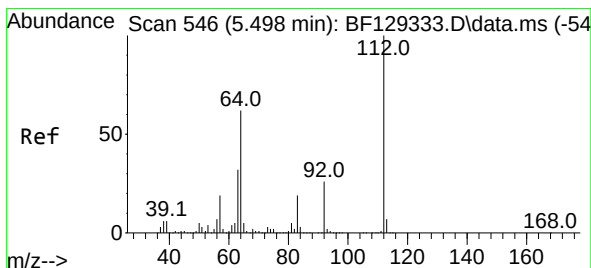
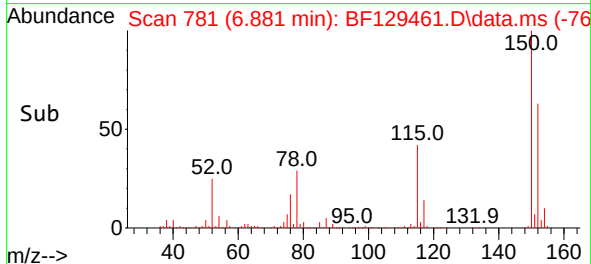
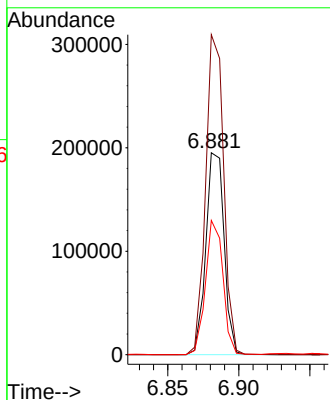
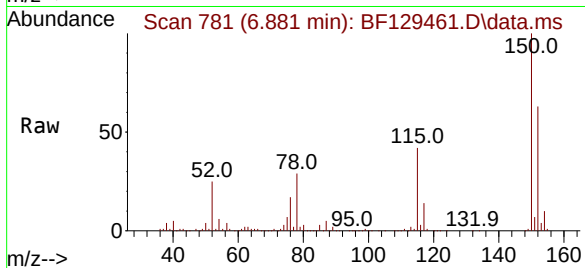




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 71
Delta R.T. -0.005 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

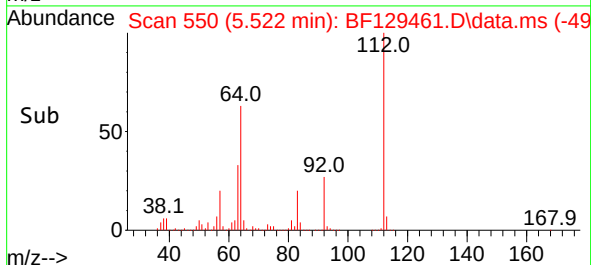
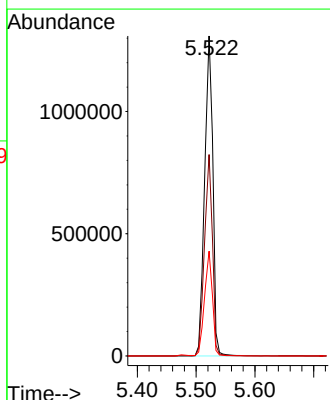
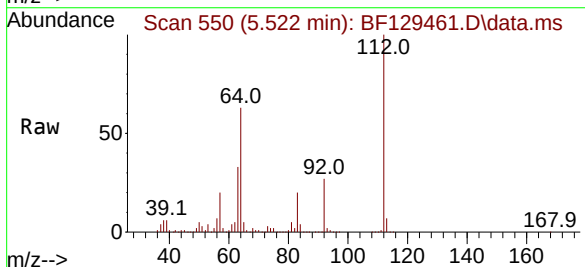
Instrument :
BNA_F
ClientSampleId :
HMGP-SOIL-B

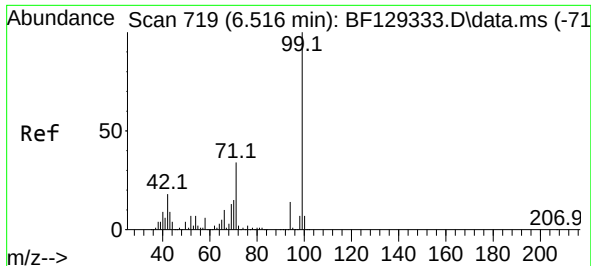
Tgt Ion:152 Resp: 174722
Ion Ratio Lower Upper
152 100
150 158.5 123.7 185.5
115 66.5 49.9 74.9



#5
2-Fluorophenol
Concen: 118.216 ng
RT: 5.522 min Scan# 550
Delta R.T. 0.024 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Tgt Ion:112 Resp: 1267948
Ion Ratio Lower Upper
112 100
64 63.0 53.3 79.9
63 32.8 28.0 42.0

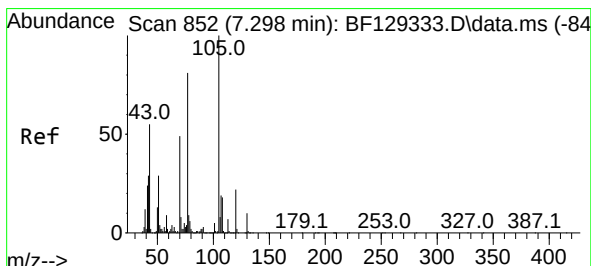
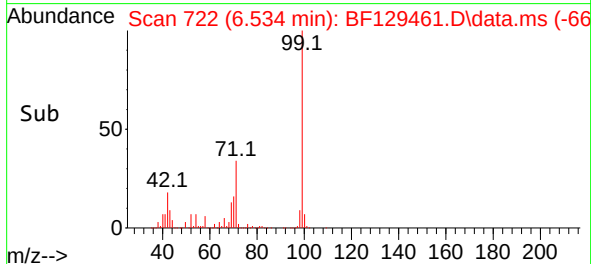
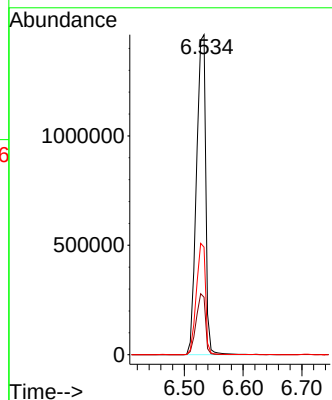
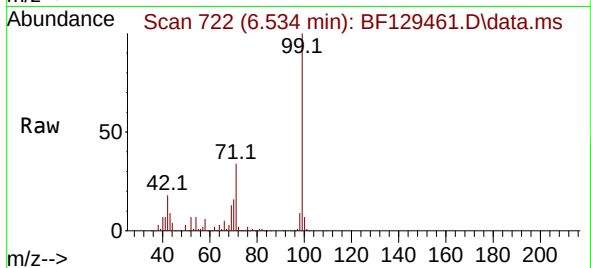




#7
Phenol-d6
Concen: 119.101 ng
RT: 6.534 min Scan# 719
Delta R.T. 0.018 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

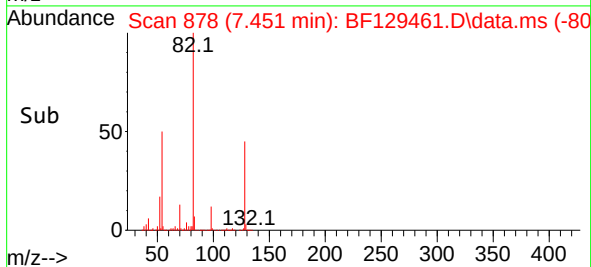
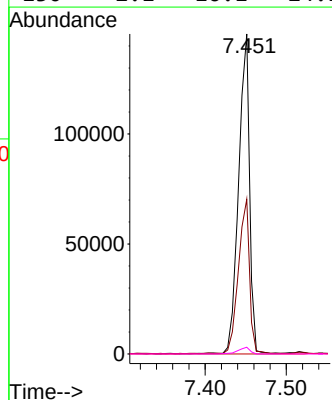
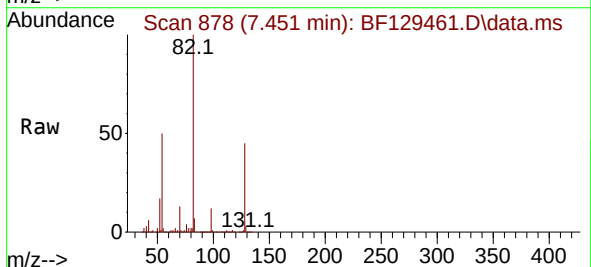
Instrument :
BNA_F
ClientSampleId :
HMGP-SOIL-B

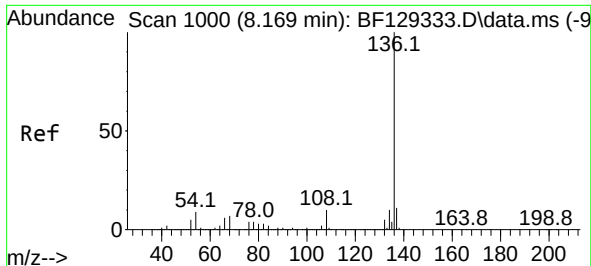
Tgt Ion: 99 Resp: 1605670
Ion Ratio Lower Upper
99 100
42 18.0 17.3 25.9
71 33.6 28.9 43.3



#19
n-Nitroso-di-n-propylamine
Concen: 16.677 ng
RT: 7.451 min Scan# 878
Delta R.T. 0.153 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Tgt Ion: 70 Resp: 136112
Ion Ratio Lower Upper
70 100
42 48.4 52.3 78.5#
101 0.0 7.5 11.3#
130 2.1 16.1 24.1#



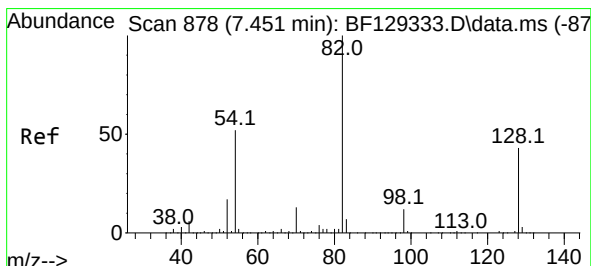
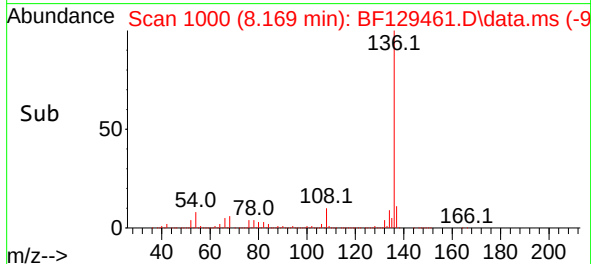
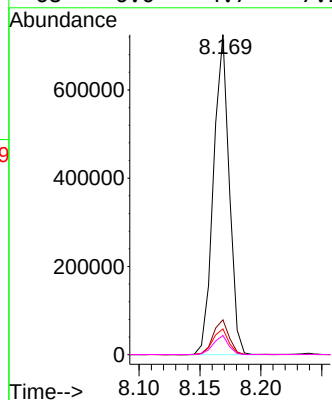
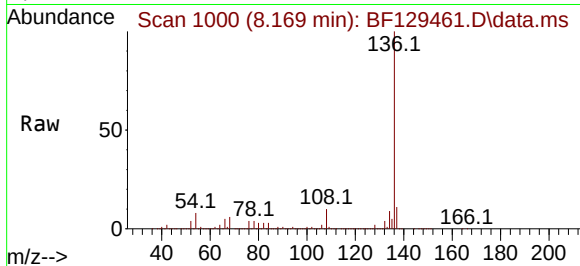


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 10
Delta R.T. 0.000 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Instrument :
BNA_F
ClientSampleId :
HMGP-SOIL-B

Tgt Ion:136 Resp: 652741

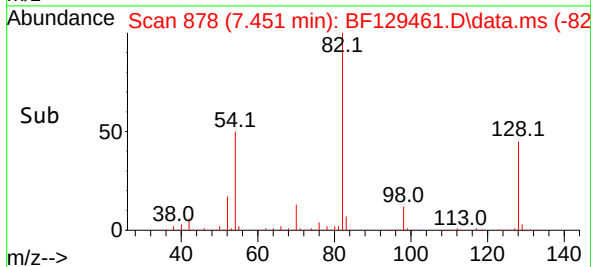
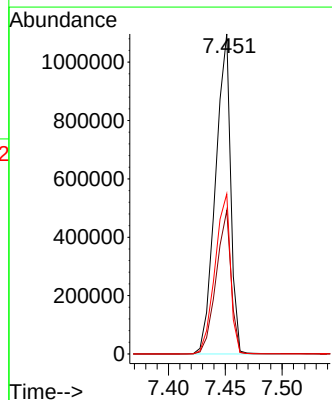
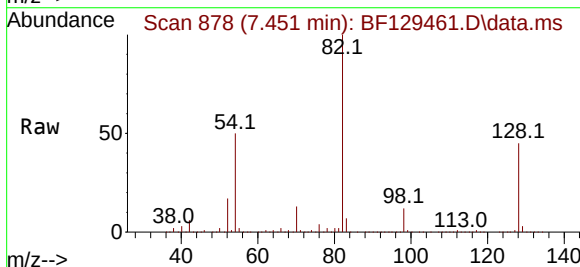
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	8.0	7.5	11.3
68	6.0	4.7	7.1

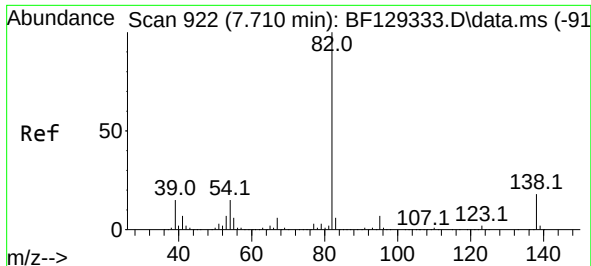


#23
Nitrobenzene-d5
Concen: 85.146 ng
RT: 7.451 min Scan# 878
Delta R.T. 0.000 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Tgt Ion: 82 Resp: 1018131

Ion	Ratio	Lower	Upper
82	100		
128	44.8	34.0	51.0
54	50.0	46.9	70.3

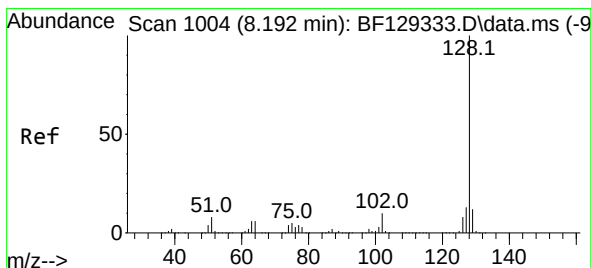
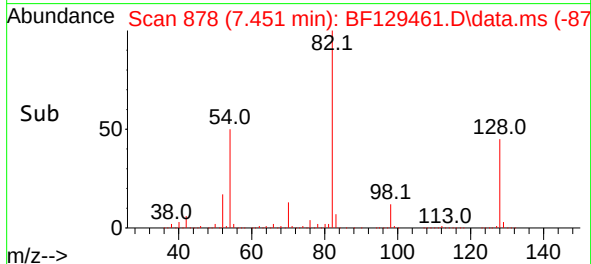
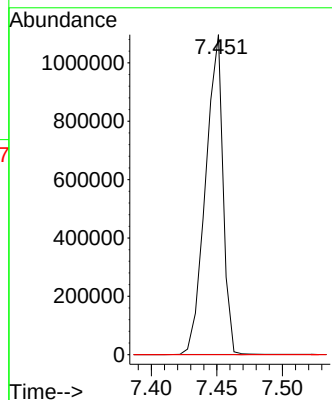
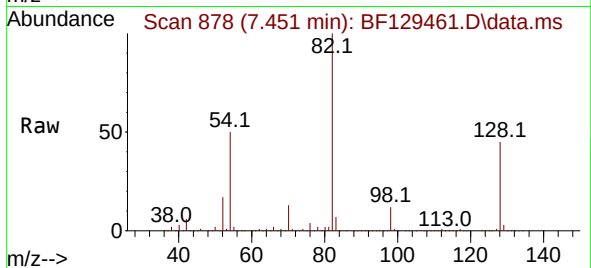




#25
Isophorone
Concen: 47.265 ng
RT: 7.451 min Scan# 81
Delta R.T. -0.259 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

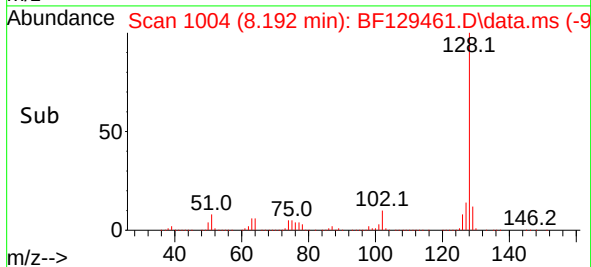
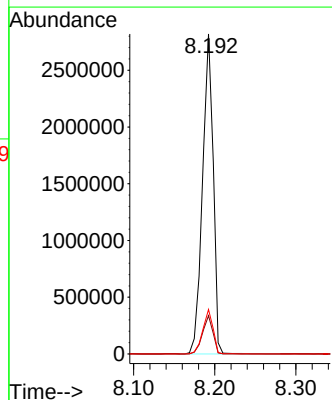
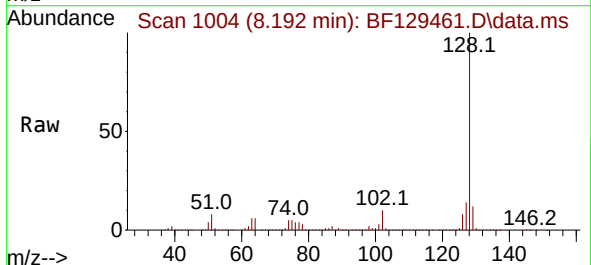
Instrument :
BNA_F
ClientSampleId :
HMGP-SOIL-B

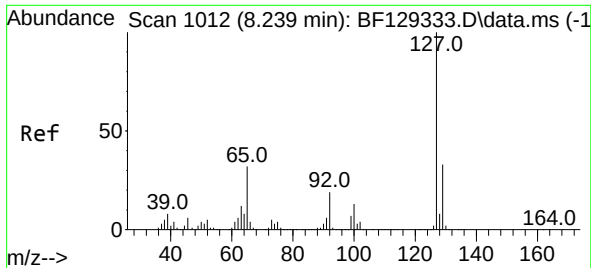
Tgt Ion: 82 Resp: 1013061
Ion Ratio Lower Upper
82 100
95 0.1 5.7 8.5#
138 0.0 14.2 21.2#



#31
Naphthalene
Concen: 77.679 ng
RT: 8.192 min Scan# 1004
Delta R.T. 0.000 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Tgt Ion:128 Resp: 2576102
Ion Ratio Lower Upper
128 100
129 11.9 9.2 13.8
127 13.9 10.5 15.7

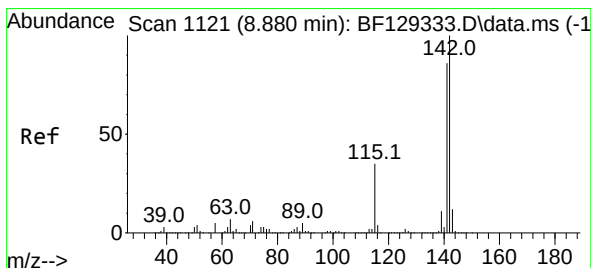
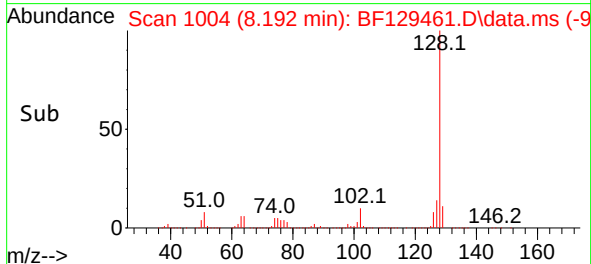
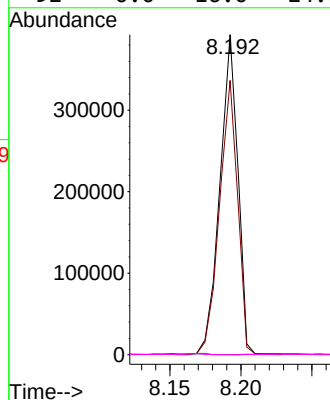
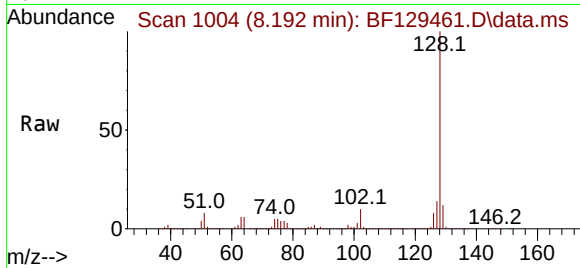




#33
4-Chloroaniline
Concen: 25.395 ng
RT: 8.192 min Scan# 1004
Delta R.T. -0.047 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

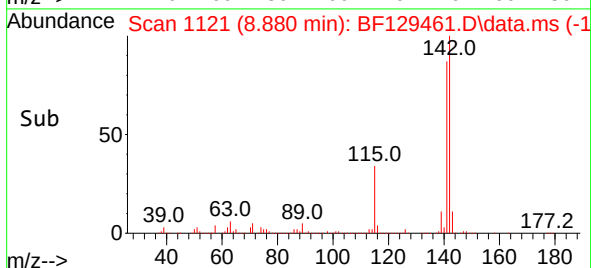
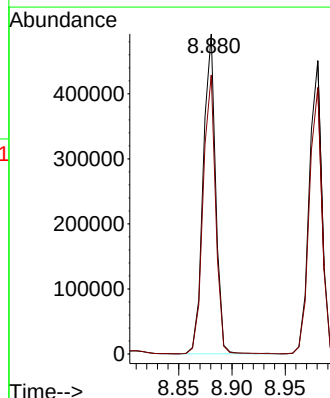
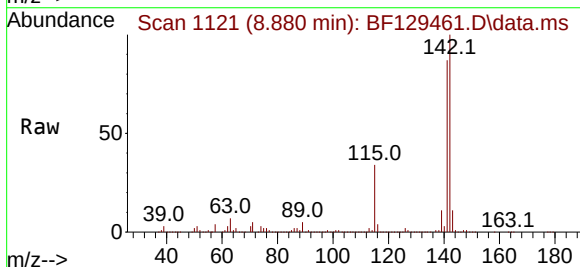
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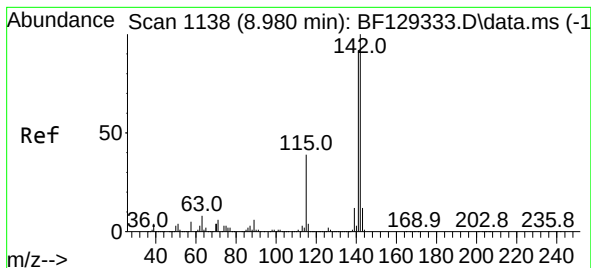
Tgt Ion:127 Resp: 345760
Ion Ratio Lower Upper
127 100
129 85.7 26.4 39.6#
65 0.0 26.4 39.6#
92 0.0 16.0 24.0#



#37
2-Methylnaphthalene
Concen: 18.576 ng
RT: 8.880 min Scan# 1121
Delta R.T. 0.000 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Tgt Ion:142 Resp: 400328
Ion Ratio Lower Upper
142 100
141 87.2 71.0 106.4





#38

1-Methylnaphthalene

Concen: 17.751 ng

RT: 8.980 min Scan# 1138

Delta R.T. 0.000 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

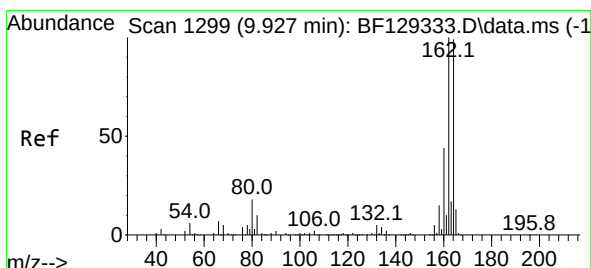
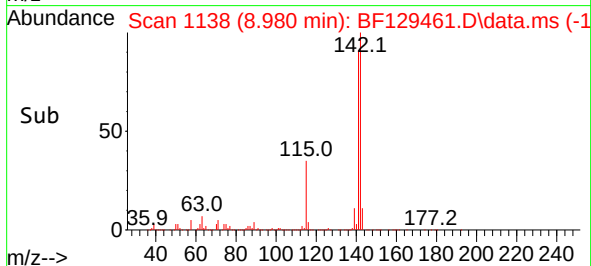
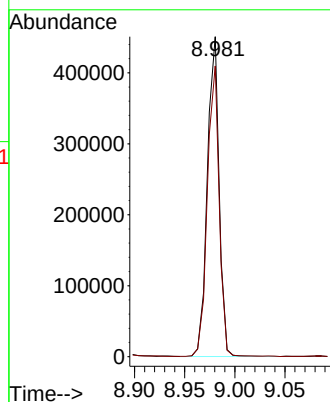
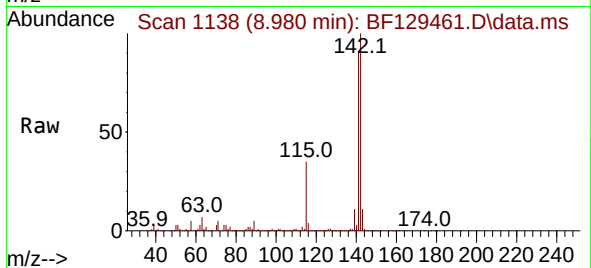
HMGP-SOIL-B

Tgt Ion:142 Resp: 369303

Ion Ratio Lower Upper

142 100

141 90.8 74.2 111.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1298

Delta R.T. -0.006 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

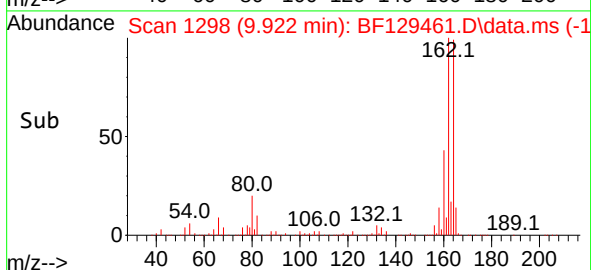
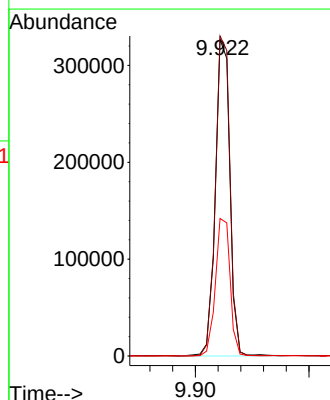
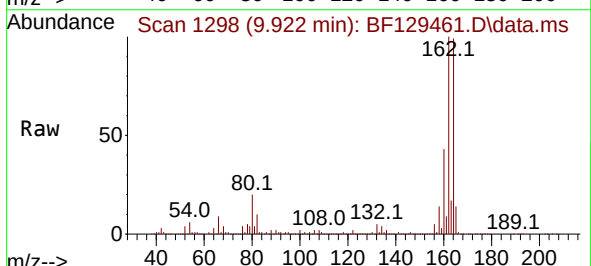
Tgt Ion:164 Resp: 289474

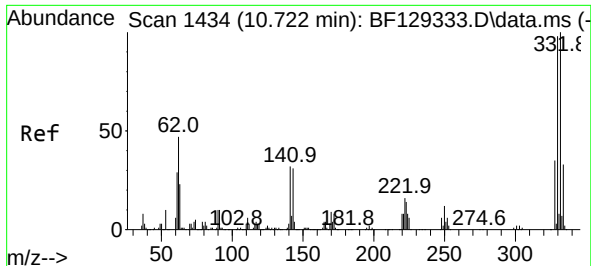
Ion Ratio Lower Upper

164 100

162 101.1 79.5 119.3

160 43.4 34.2 51.4





#42

2,4,6-Tribromophenol

Concen: 96.756 ng

RT: 10.722 min Scan# 1434

Delta R.T. 0.000 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-B

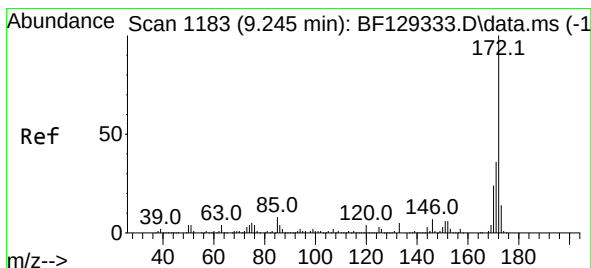
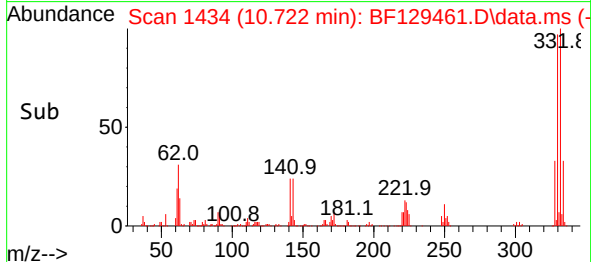
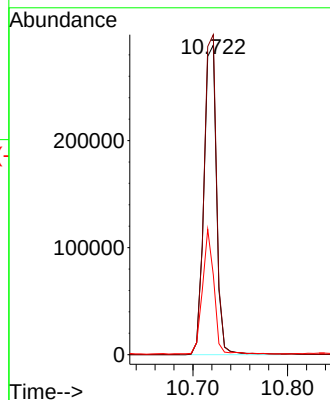
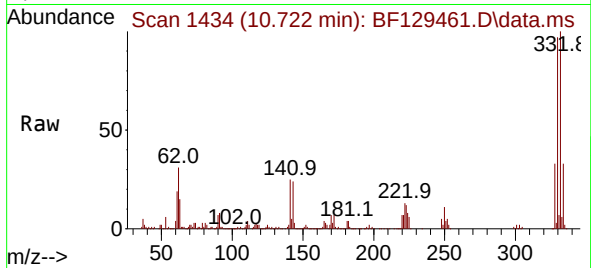
Tgt Ion:330 Resp: 269278

Ion Ratio Lower Upper

330 100

332 102.7 76.8 115.2

141 36.6 28.0 42.0



#45

2-Fluorobiphenyl

Concen: 83.627 ng

RT: 9.245 min Scan# 1183

Delta R.T. 0.000 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

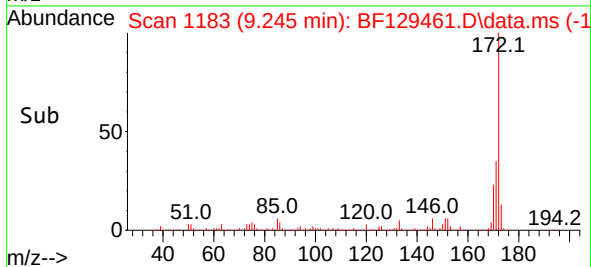
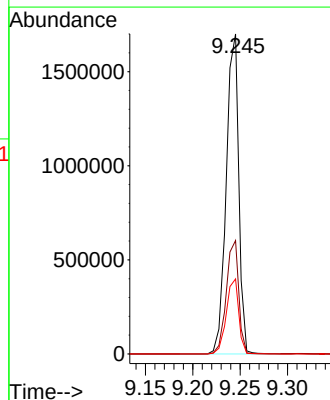
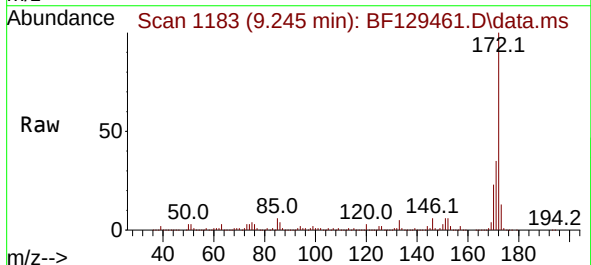
Tgt Ion:172 Resp: 1564874

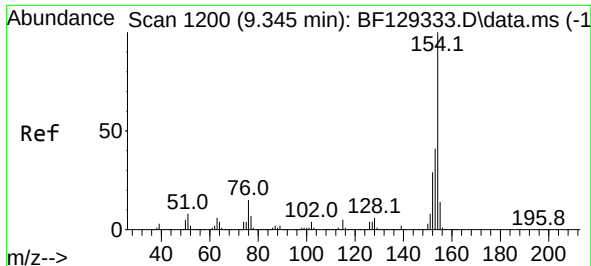
Ion Ratio Lower Upper

172 100

171 35.5 28.8 43.2

170 23.5 19.8 29.8

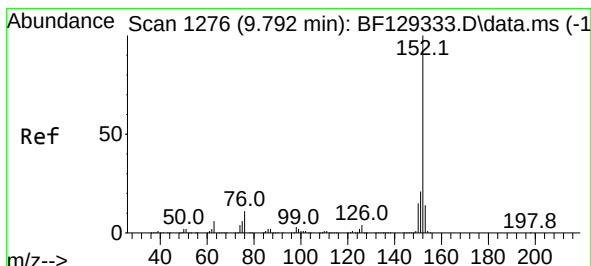
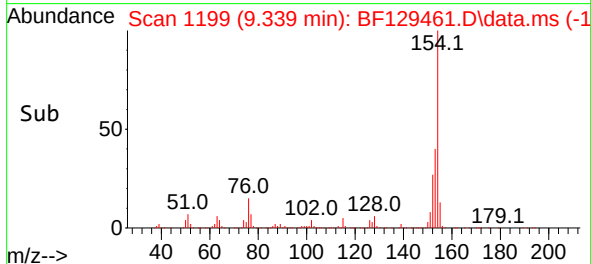
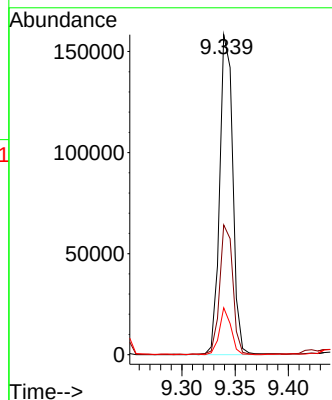
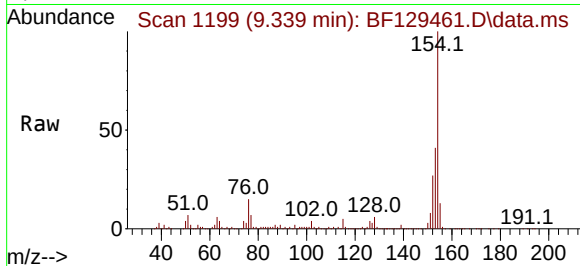




#46
1,1'-Biphenyl
Concen: 6.390 ng
RT: 9.339 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

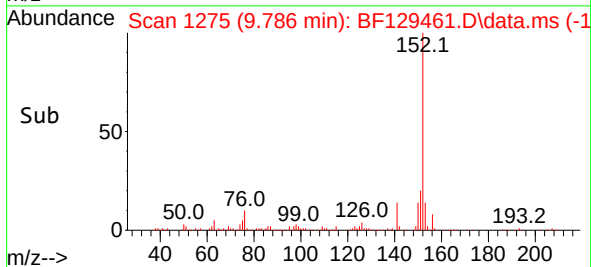
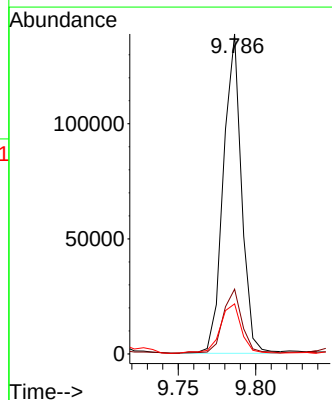
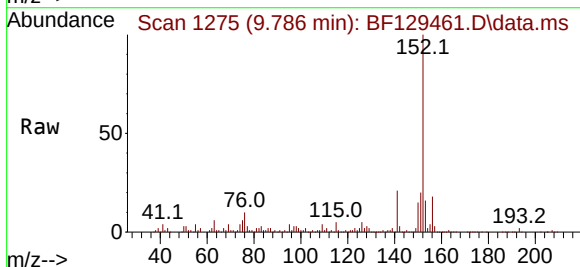
Instrument :
BNA_F
ClientSampleId :
HMGP-SOIL-B

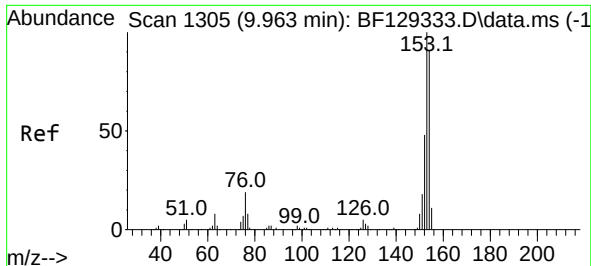
Tgt Ion:154 Resp: 134984
Ion Ratio Lower Upper
154 100
153 40.5 20.6 60.6
76 14.7 0.0 33.3



#49
Acenaphthylene
Concen: 4.368 ng
RT: 9.786 min Scan# 1275
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Tgt Ion:152 Resp: 113346
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.4
153 15.7 10.7 16.1

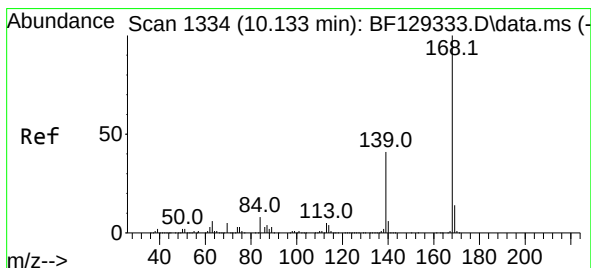
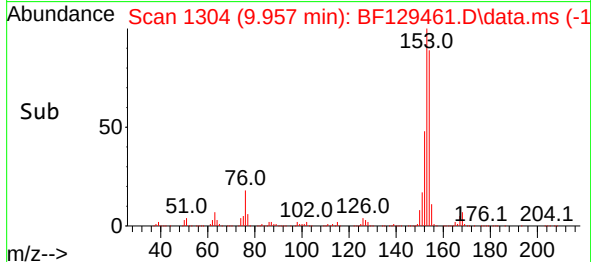
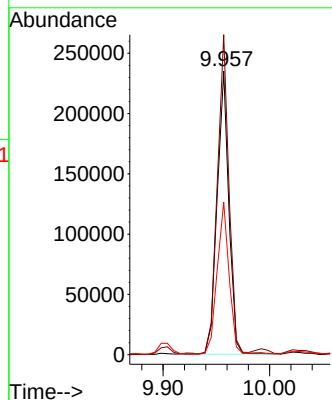
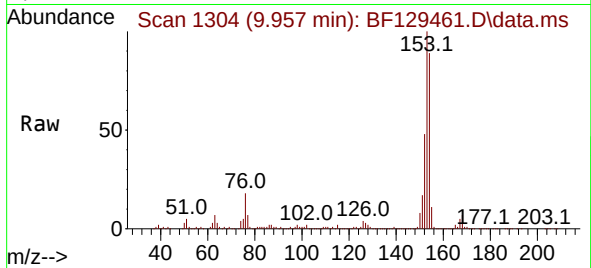




#52
Acenaphthene
Concen: 10.619 ng
RT: 9.957 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

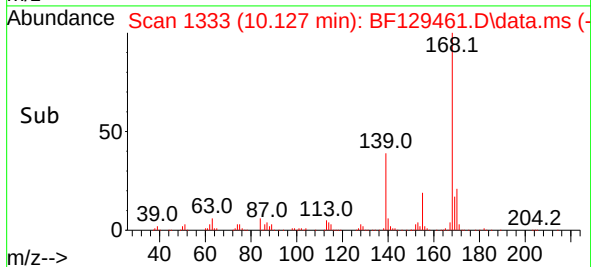
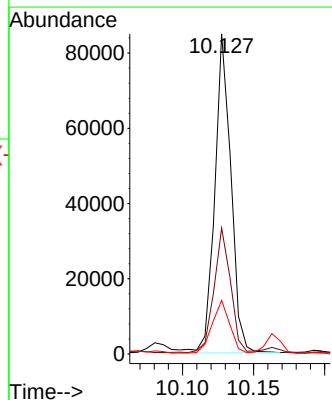
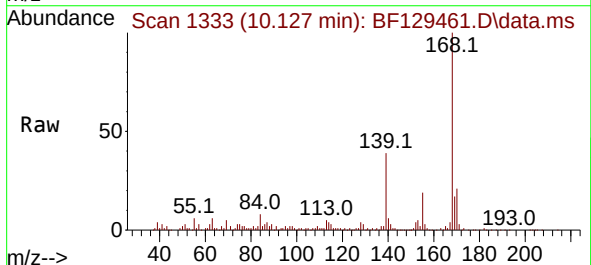
Instrument :
BNA_F
ClientSampleId :
HMGP-SOIL-B

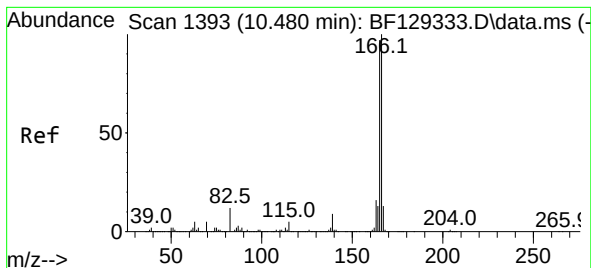
Tgt Ion:154 Resp: 179986
Ion Ratio Lower Upper
154 100
153 112.8 89.6 134.4
152 53.7 42.4 63.6



#55
Dibenzofuran
Concen: 2.871 ng
RT: 10.127 min Scan# 1333
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Tgt Ion:168 Resp: 67079
Ion Ratio Lower Upper
168 100
139 39.4 30.6 46.0
169 16.7 11.0 16.6#





#58

Fluorene

Concen: 9.739 ng

RT: 10.475 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-B

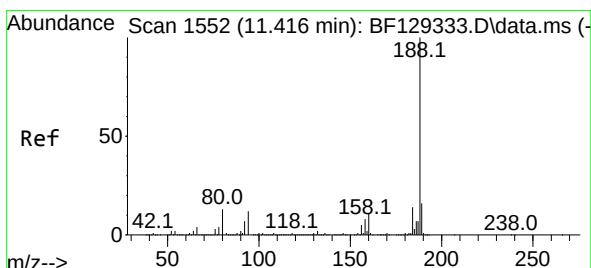
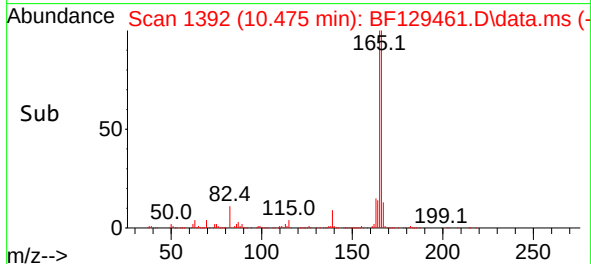
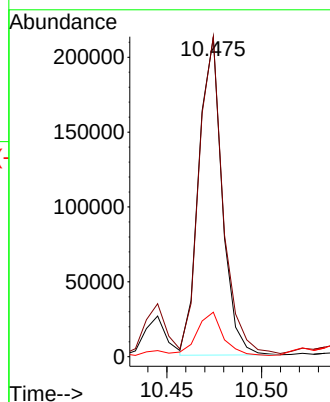
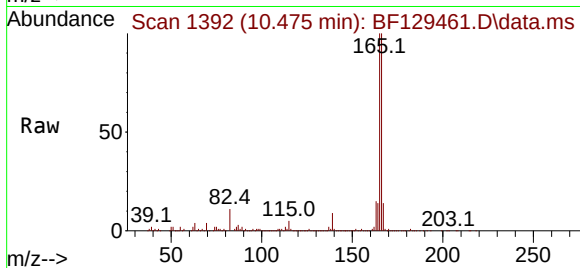
Tgt Ion:166 Resp: 182065

Ion Ratio Lower Upper

166 100

165 100.3 78.1 117.1

167 14.0 10.5 15.7



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.416 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

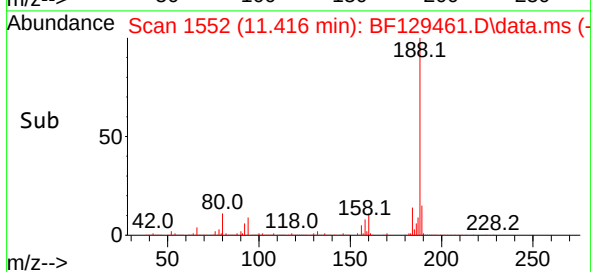
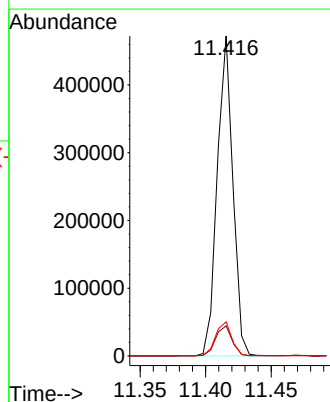
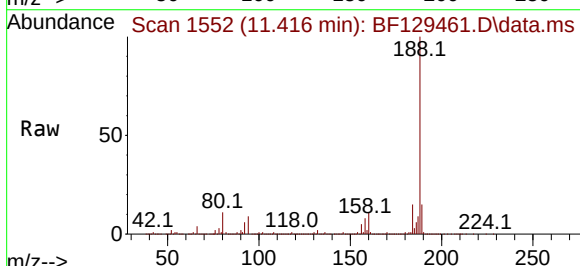
Tgt Ion:188 Resp: 391440

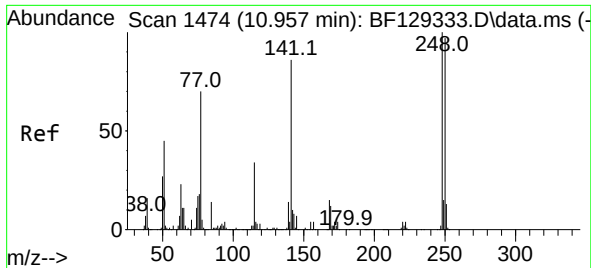
Ion Ratio Lower Upper

188 100

94 9.4 7.0 10.6

80 10.7 7.6 11.4

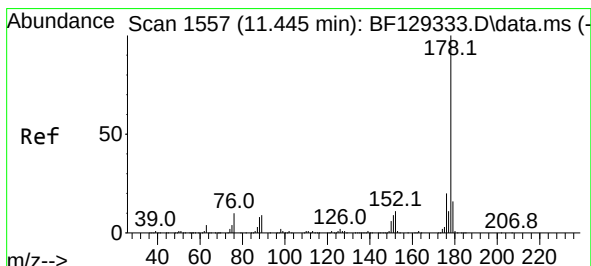
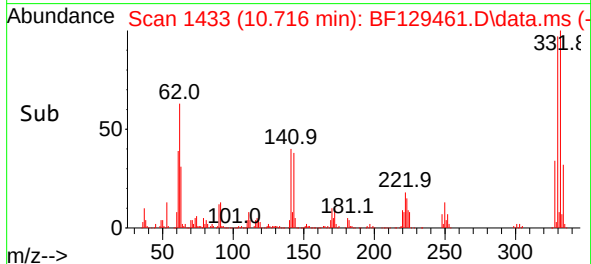
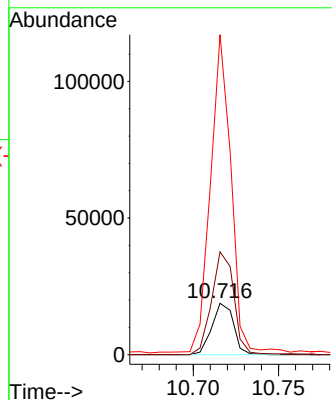
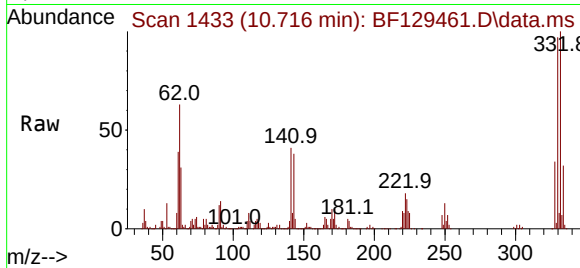




#67
4-Bromophenyl-phenylether
Concen: 3.881 ng
RT: 10.716 min Scan# 14
Delta R.T. -0.241 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

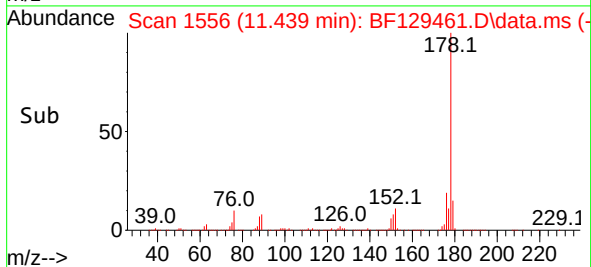
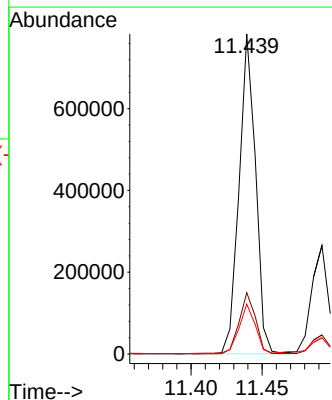
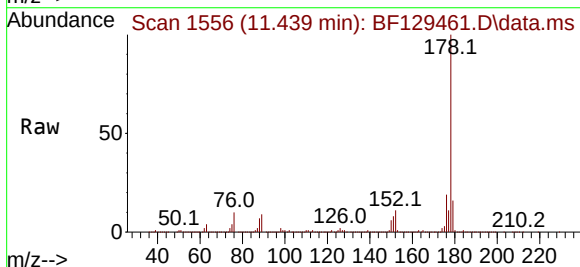
Instrument :
BNA_F
ClientSampleId :
HMGP-SOIL-B

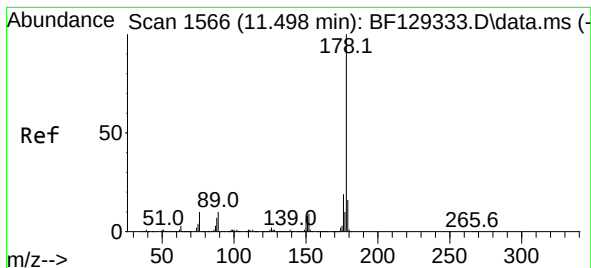
Tgt Ion:248 Resp: 16637
Ion Ratio Lower Upper
248 100
250 200.1 80.6 120.8#
141 622.4 58.9 88.3#



#71
Phenanthrene
Concen: 29.527 ng
RT: 11.439 min Scan# 1556
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Tgt Ion:178 Resp: 630922
Ion Ratio Lower Upper
178 100
176 19.2 16.0 24.0
179 15.6 12.6 19.0





#72

Anthracene

Concen: 10.141 ng

RT: 11.492 min Scan# 1566

Delta R.T. -0.006 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-B

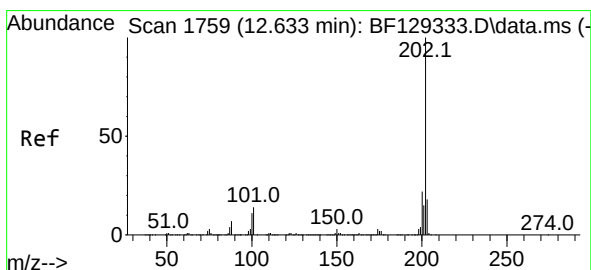
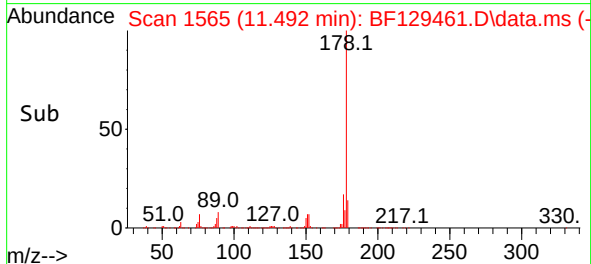
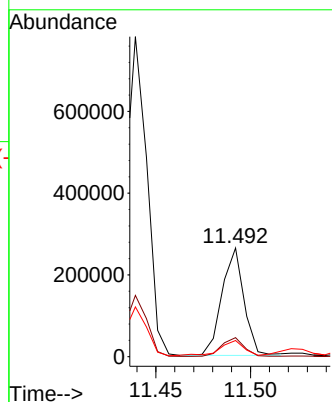
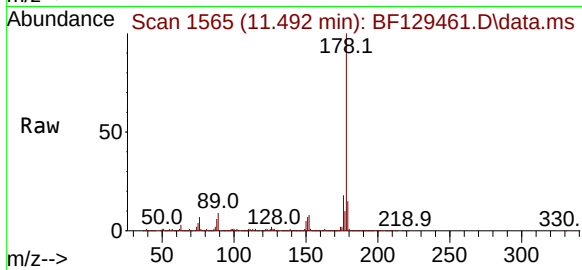
Tgt Ion:178 Resp: 212950

Ion Ratio Lower Upper

178 100

176 17.5 15.4 23.2

179 14.9 12.6 19.0



#75

Fluoranthene

Concen: 20.173 ng

RT: 12.633 min Scan# 1759

Delta R.T. 0.000 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

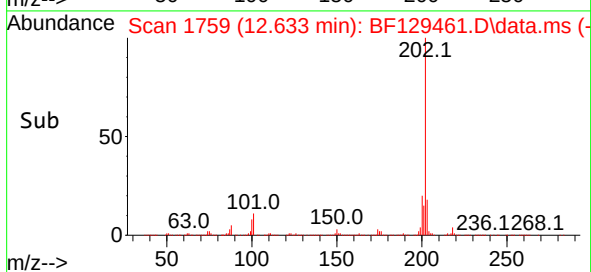
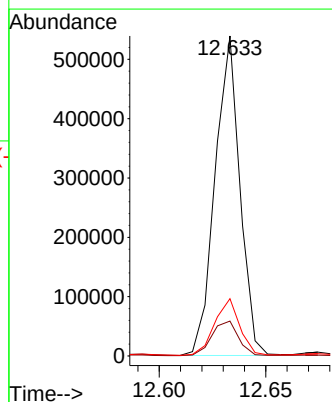
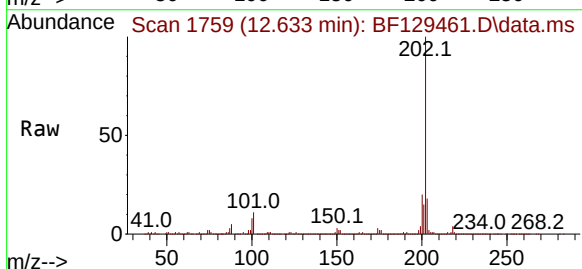
Tgt Ion:202 Resp: 436754

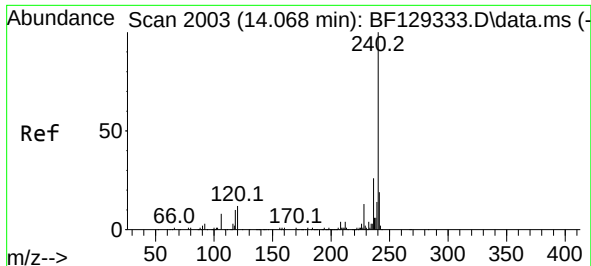
Ion Ratio Lower Upper

202 100

101 10.9 0.0 31.4

203 17.9 0.0 38.0

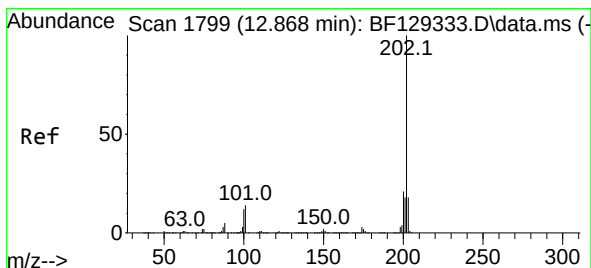
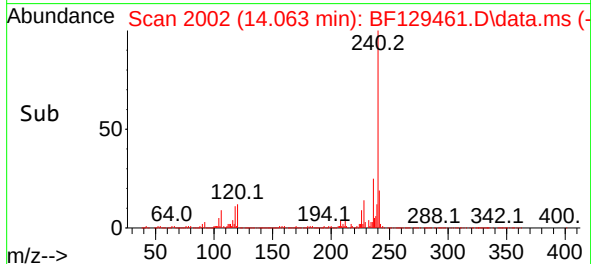
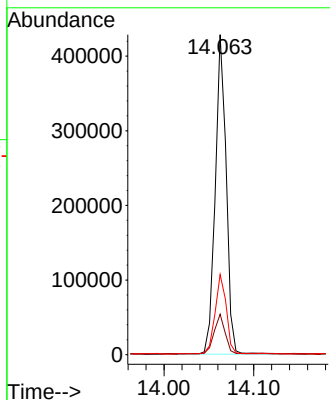
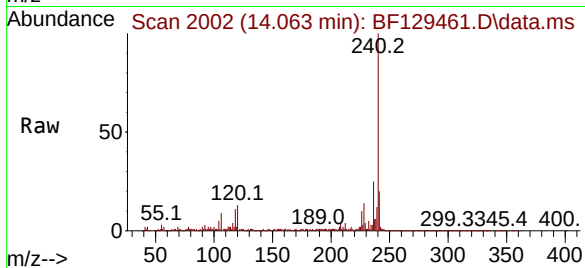




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

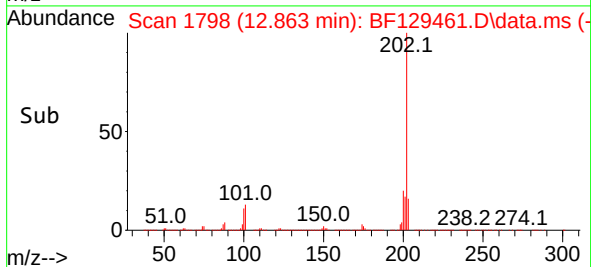
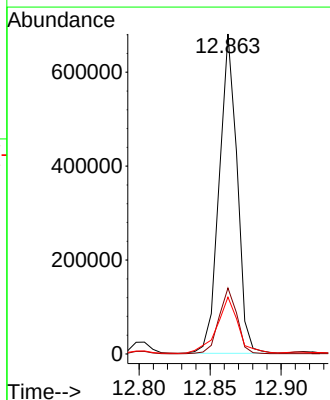
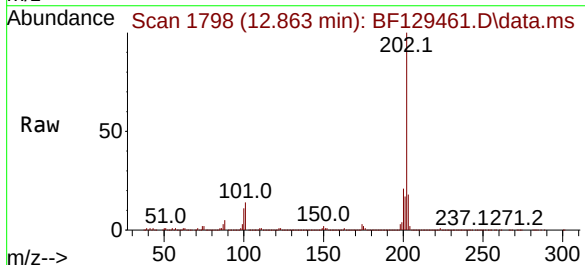
Instrument :
BNA_F
ClientSampleId :
HMGP-SOIL-B

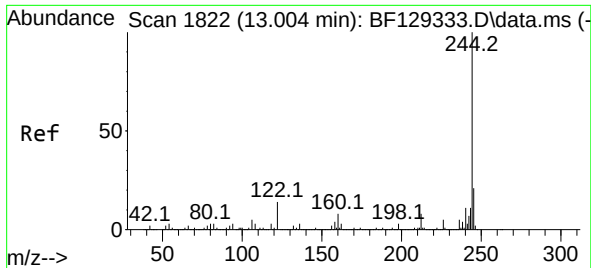
Tgt Ion:240 Resp: 362785
Ion Ratio Lower Upper
240 100
120 12.6 8.9 13.3
236 25.0 20.8 31.2



#78
Pyrene
Concen: 19.590 ng
RT: 12.863 min Scan# 1798
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Tgt Ion:202 Resp: 594318
Ion Ratio Lower Upper
202 100
200 20.6 17.7 26.5
203 17.8 14.6 21.8

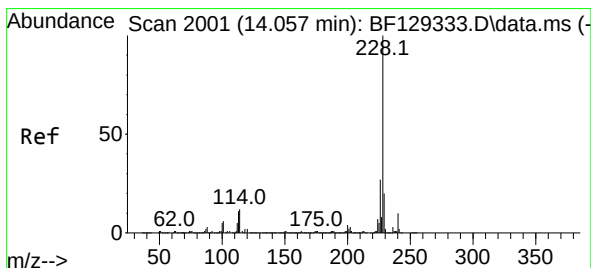
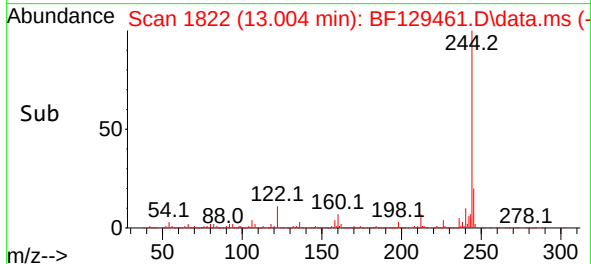
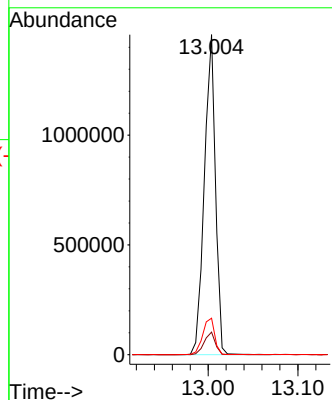
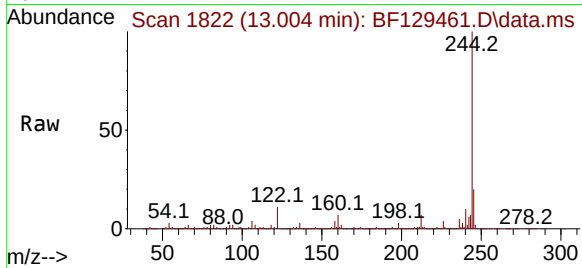




#79
 Terphenyl-d14
 Concen: 65.142 ng
 RT: 13.004 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF129461.D
 Acq: 30 Jul 2022 01:37

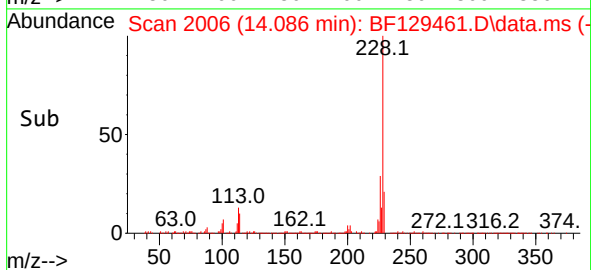
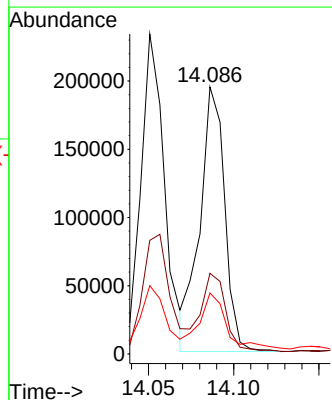
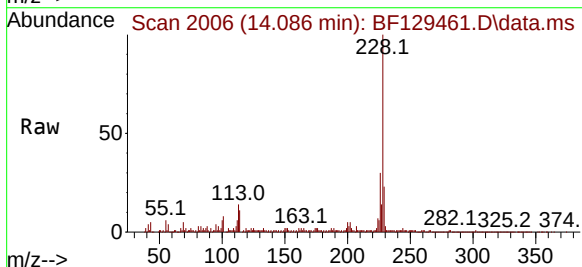
Instrument :
 BNA_F
 ClientSampleId :
 HMGP-SOIL-B

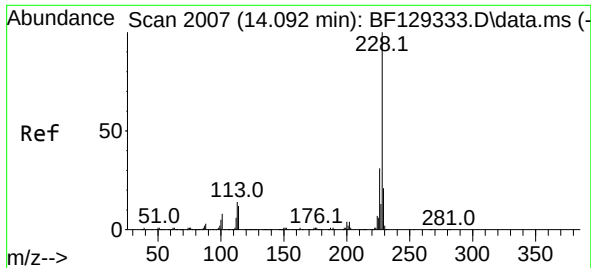
Tgt Ion:244 Resp: 1252667
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.1 9.1
 122 11.4 8.8 13.2



#81
 Benzo(a)anthracene
 Concen: 7.935 ng
 RT: 14.086 min Scan# 2006
 Delta R.T. 0.029 min
 Lab File: BF129461.D
 Acq: 30 Jul 2022 01:37

Tgt Ion:228 Resp: 196633
 Ion Ratio Lower Upper
 228 100
 226 30.2 22.1 33.1
 229 22.8 15.8 23.8





#83

Chrysene

Concen: 8.419 ng

RT: 14.086 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-B

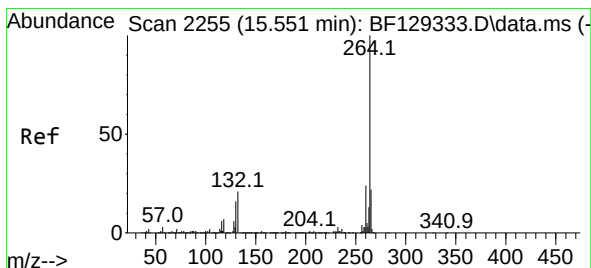
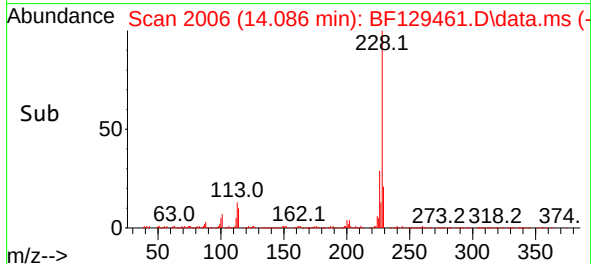
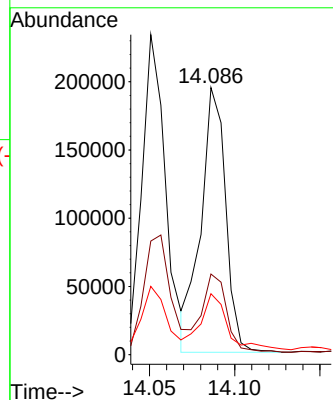
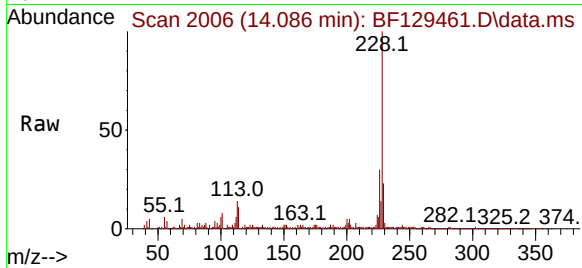
Tgt Ion:228 Resp: 196633

Ion Ratio Lower Upper

228 100

226 30.2 24.3 36.5

229 22.8 15.9 23.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.562 min Scan# 2257

Delta R.T. 0.012 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

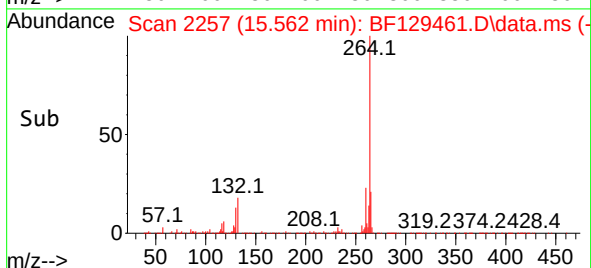
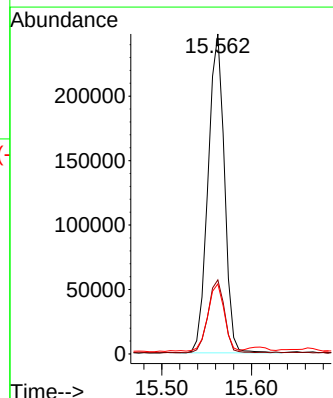
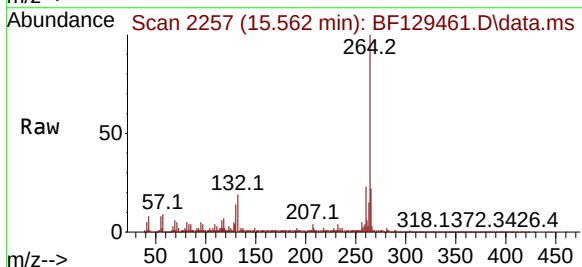
Tgt Ion:264 Resp: 313038

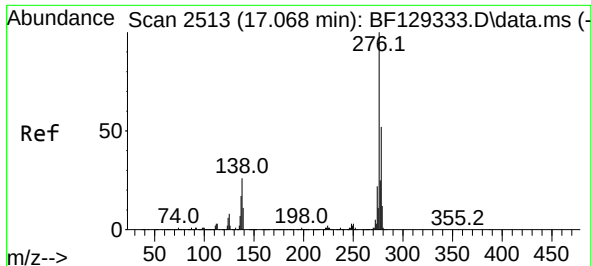
Ion Ratio Lower Upper

264 100

260 23.2 18.4 27.6

265 21.9 17.2 25.8

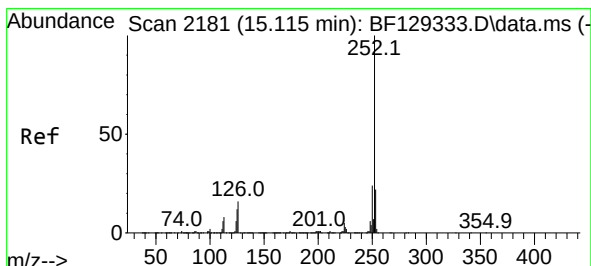
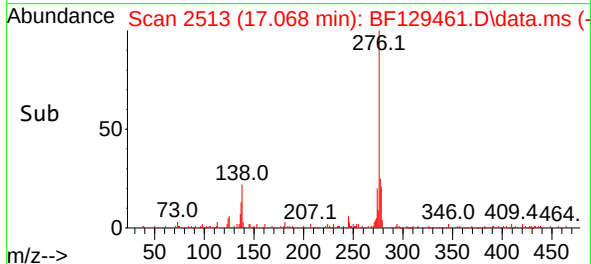
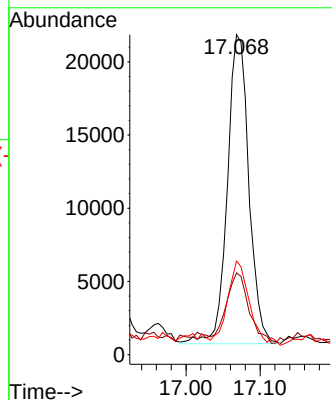
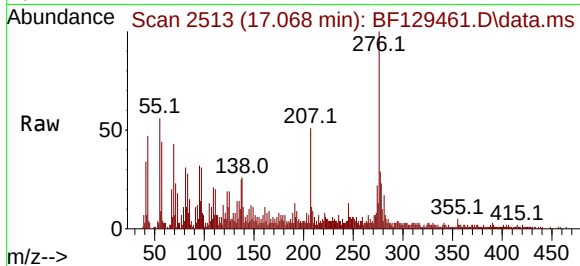




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.019 ng
 RT: 17.068 min Scan# 211
 Delta R.T. 0.000 min
 Lab File: BF129461.D
 Acq: 30 Jul 2022 01:37

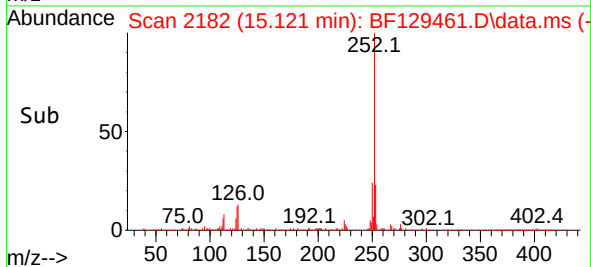
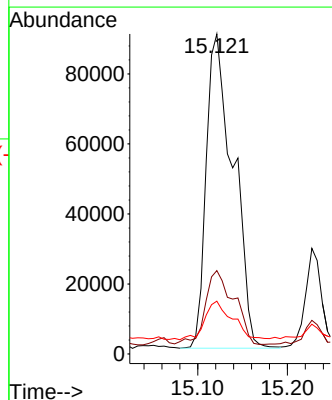
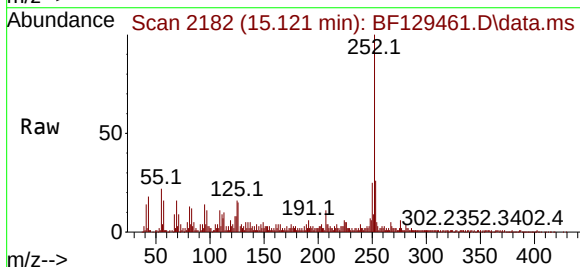
Instrument :
 BNA_F
 ClientSampleId :
 HMGP-SOIL-B

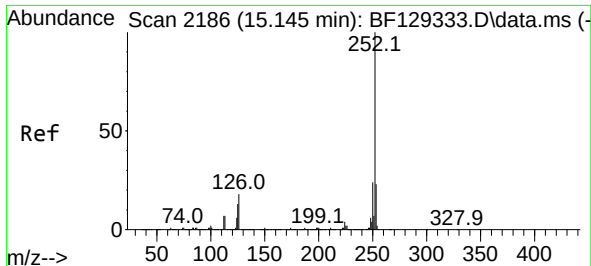
Tgt Ion:276 Resp: 42557
 Ion Ratio Lower Upper
 276 100
 138 24.0 21.1 31.7
 277 27.8 20.3 30.5



#88
 Benzo(b)fluoranthene
 Concen: 9.042 ng
 RT: 15.121 min Scan# 2182
 Delta R.T. 0.006 min
 Lab File: BF129461.D
 Acq: 30 Jul 2022 01:37

Tgt Ion:252 Resp: 187751
 Ion Ratio Lower Upper
 252 100
 253 26.1 17.7 26.5
 125 16.5 8.0 12.0#





#89

Benzo(k)fluoranthene

Concen: 9.227 ng

RT: 15.121 min Scan# 2186

Delta R.T. -0.024 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-B

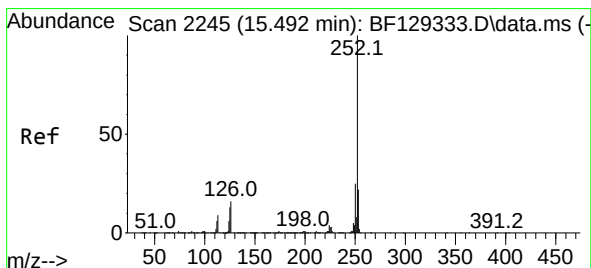
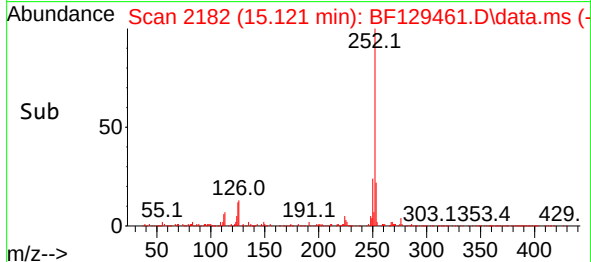
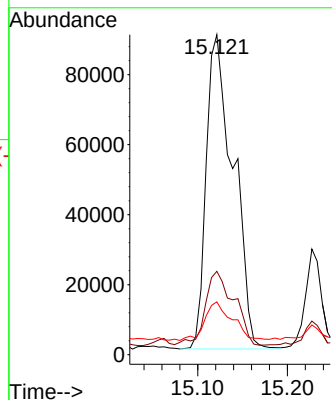
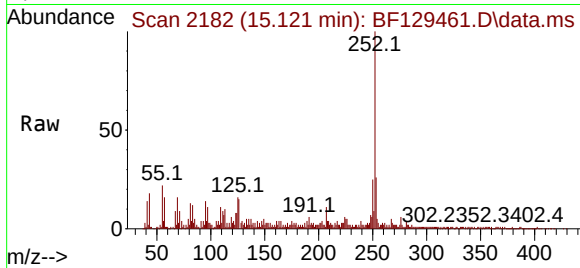
Tgt Ion:252 Resp: 187751

Ion Ratio Lower Upper

252 100

253 26.1 17.8 26.6

125 16.5 8.3 12.5#



#90

Benzo(a)pyrene

Concen: 8.002 ng

RT: 15.492 min Scan# 2245

Delta R.T. 0.000 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

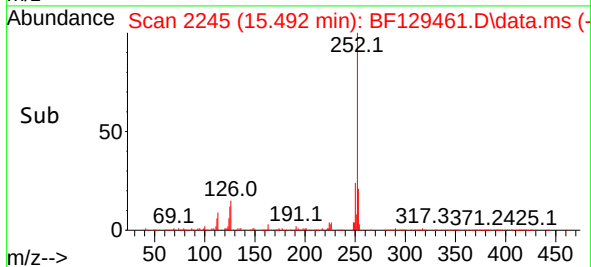
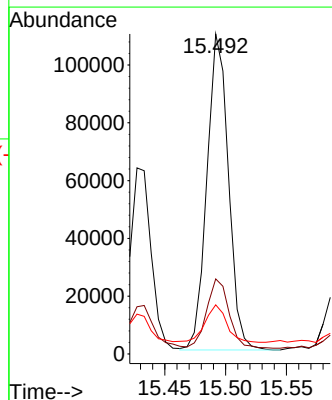
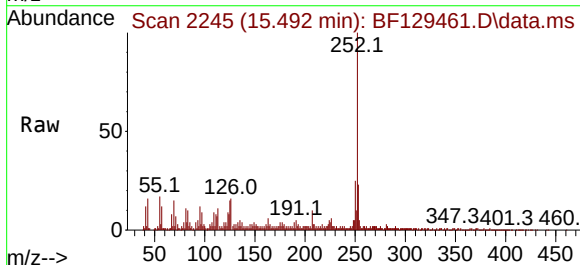
Tgt Ion:252 Resp: 134892

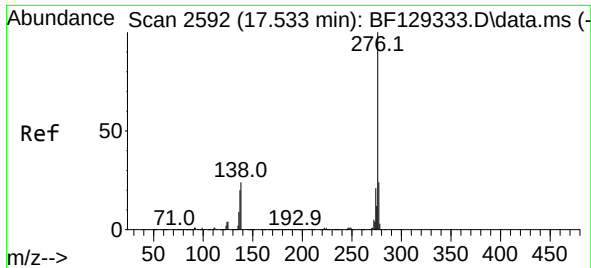
Ion Ratio Lower Upper

252 100

253 23.5 17.0 25.6

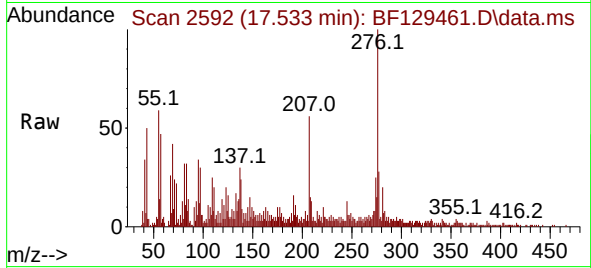
125 15.4 8.8 13.2#





#92
 Benzo(g,h,i)perylene
 Concen: 2.276 ng
 RT: 17.533 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BF129461.D
 Acq: 30 Jul 2022 01:37

Instrument :
 BNA_F
 ClientSampleId :
 HMGP-SOIL-B



Tgt Ion:	276	Resp:	39907
Ion	Ratio	Lower	Upper
276	100		
277	27.5	19.1	28.7
138	24.0	18.0	27.0

