

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
 Data File : BF140518.D
 Acq On : 20 Nov 2024 23:32
 Operator : RC/JU
 Sample : P4822-02
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-1

Quant Time: Nov 21 00:10:04 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

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

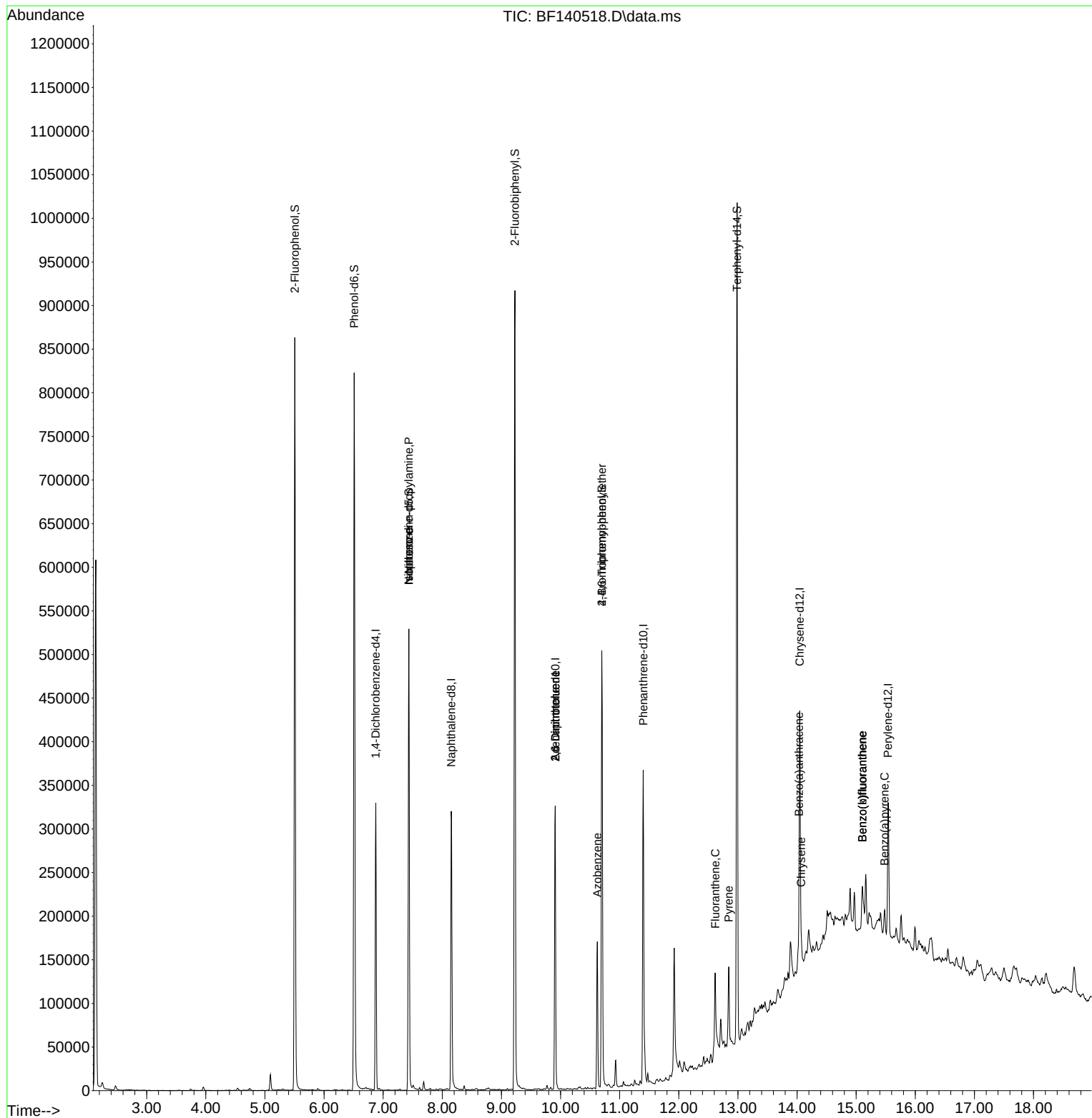
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	66956	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	215841	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	100423	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	192326	20.000	ng	0.00
76) Chrysene-d12	14.045	240	128755	20.000	ng	0.00
86) Perylene-d12	15.539	264	95058	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	313504	79.944	ng	0.01
7) Phenol-d6	6.510	99	377604	71.071	ng	0.00
23) Nitrobenzene-d5	7.434	82	236378	57.060	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	85376	85.493	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	416105	66.609	ng	0.00
79) Terphenyl-d14	12.986	244	465375	62.739	ng	0.00
Target Compounds						
					Qvalue	
19) n-Nitroso-di-n-propyla...	7.434	70	32626	10.167	ng	# 76
25) Isophorone	7.434	82	233611	31.819	ng	# 66
51) 2,6-Dinitrotoluene	9.910	165	12295	8.239	ng	# 21
57) 2,4-Dinitrotoluene	9.910	165	12295	6.260	ng	# 19
63) Azobenzene	10.622	77	44489	6.727	ng	# 1
67) 4-Bromophenyl-phenylether	10.698	248	5585	2.905	ng	# 1
75) Fluoranthene	12.616	202	40128	3.959	ng	97
78) Pyrene	12.845	202	50736	4.607	ng	98
81) Benzo(a)anthracene	14.033	228	23033	2.722	ng	# 93
83) Chrysene	14.069	228	21515	2.787	ng	# 96
88) Benzo(b)fluoranthene	15.104	252	36254	5.830	ng	# 90
89) Benzo(k)fluoranthene	15.104	252	36254	7.137	ng	# 89
90) Benzo(a)pyrene	15.480	252	13177	2.729	ng	# 79

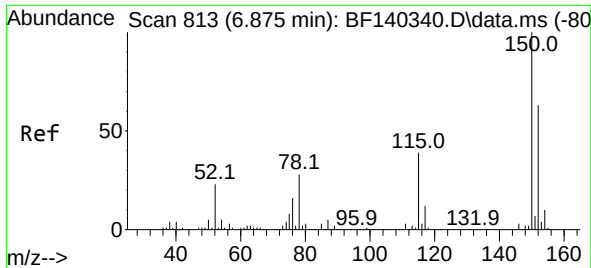
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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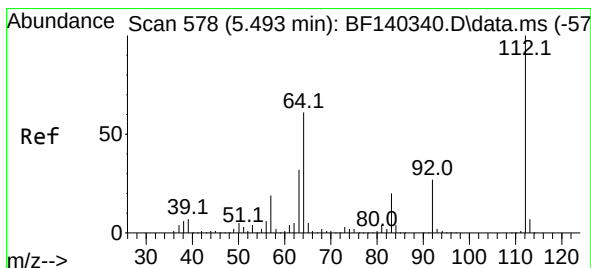
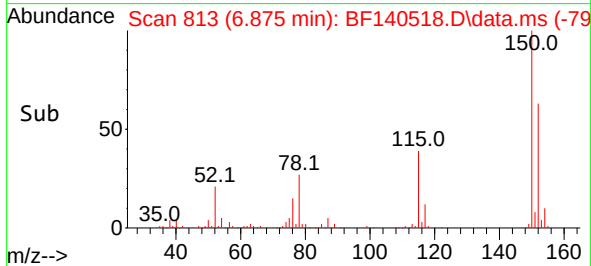
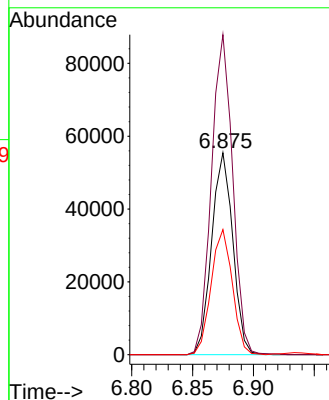
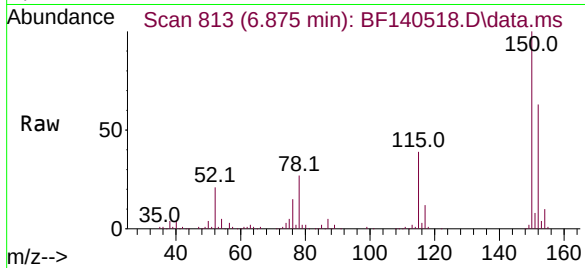




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140518.D
Acq: 20 Nov 2024 23:32

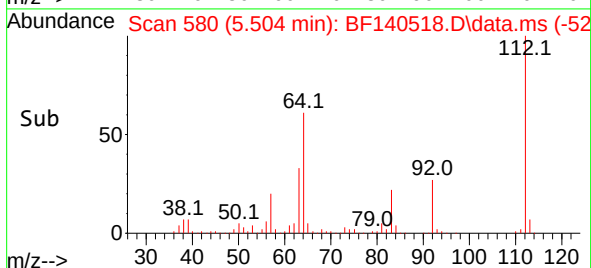
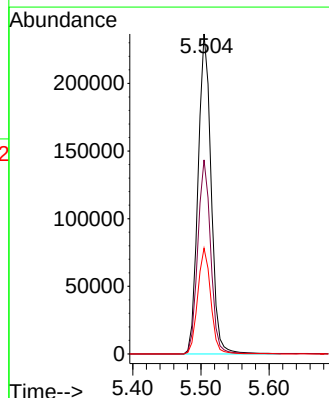
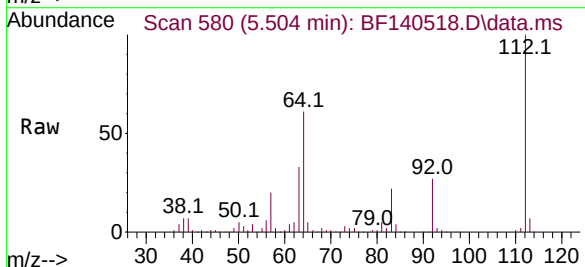
Instrument :
BNA_F
ClientSampleId :
SOIL-1

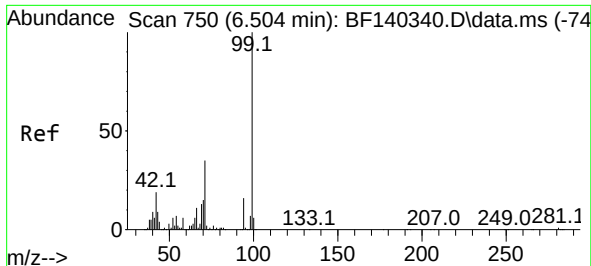
Tgt Ion:152 Resp: 66956
Ion Ratio Lower Upper
152 100
150 158.5 127.4 191.0
115 62.0 47.4 71.2



#5
2-Fluorophenol
Concen: 79.944 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.012 min
Lab File: BF140518.D
Acq: 20 Nov 2024 23:32

Tgt Ion:112 Resp: 313504
Ion Ratio Lower Upper
112 100
64 60.6 49.2 73.8
63 33.1 25.6 38.4





#7

Phenol-d6

Concen: 71.071 ng

RT: 6.510 min Scan# 71

Delta R.T. 0.006 min

Lab File: BF140518.D

Acq: 20 Nov 2024 23:32

Instrument :

BNA_F

ClientSampleId :

SOIL-1

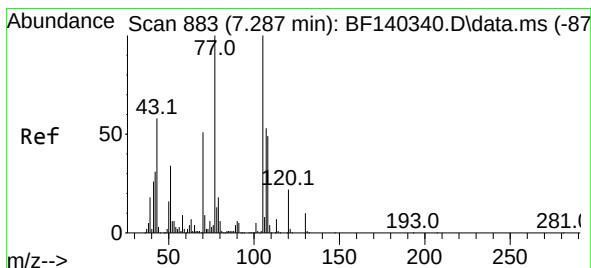
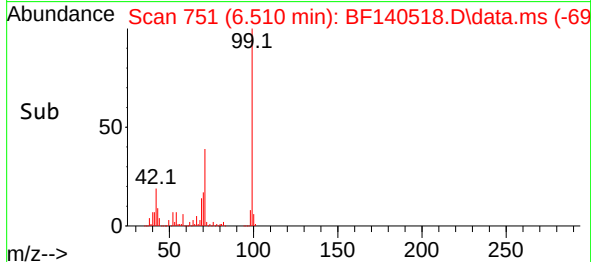
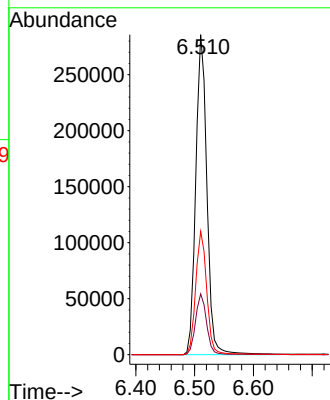
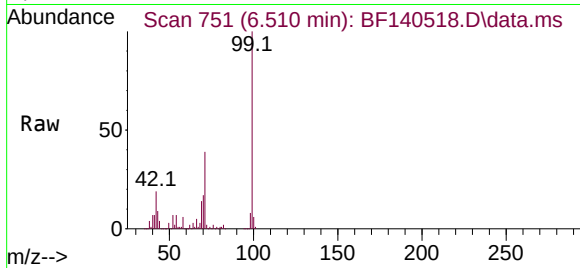
Tgt Ion: 99 Resp: 377604

Ion Ratio Lower Upper

99 100

42 19.0 15.1 22.7

71 38.5 27.9 41.9



#19

n-Nitroso-di-n-propylamine

Concen: 10.167 ng

RT: 7.434 min Scan# 908

Delta R.T. 0.141 min

Lab File: BF140518.D

Acq: 20 Nov 2024 23:32

Tgt Ion: 70 Resp: 32626

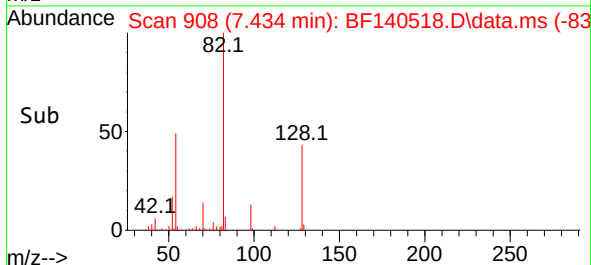
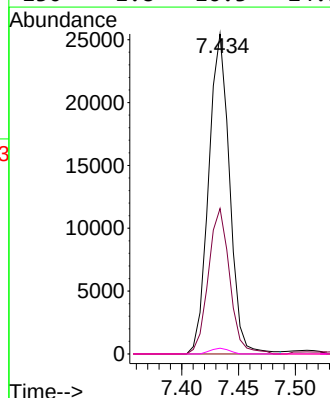
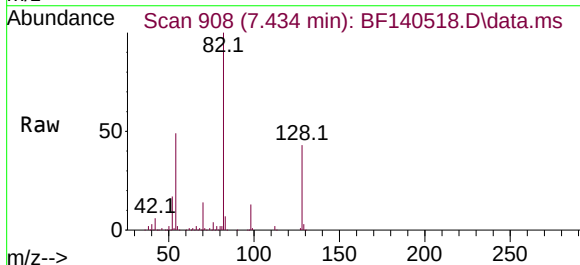
Ion Ratio Lower Upper

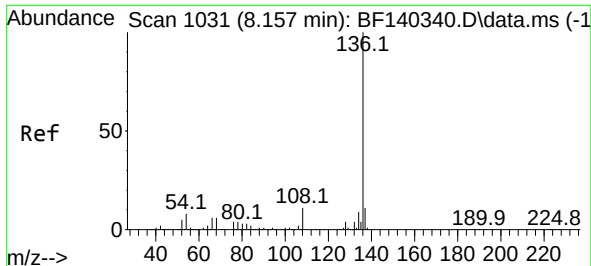
70 100

42 45.4 46.8 70.2#

101 0.0 7.5 11.3#

130 1.8 16.3 24.5#



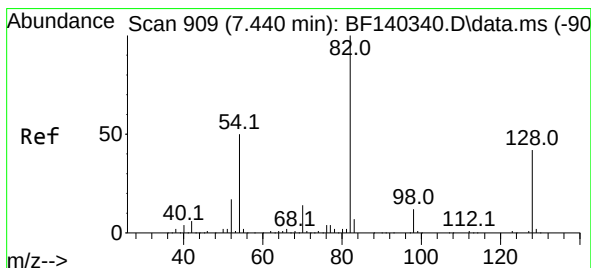
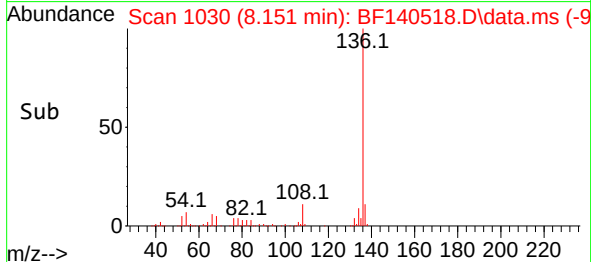
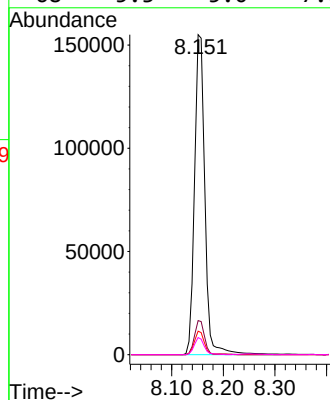
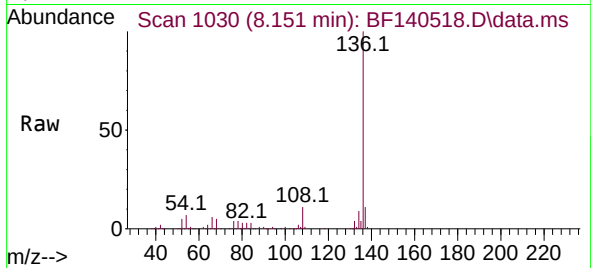


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1031
Delta R.T. -0.006 min
Lab File: BF140518.D
Acq: 20 Nov 2024 23:32

Instrument :
BNA_F
ClientSampleId :
SOIL-1

Tgt Ion:136 Resp: 215841

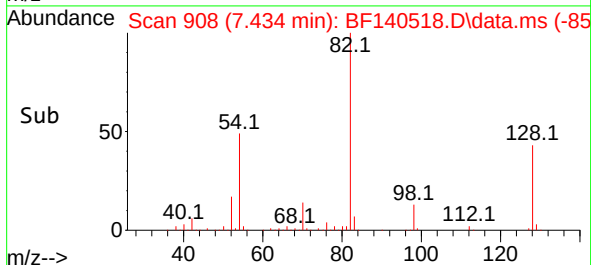
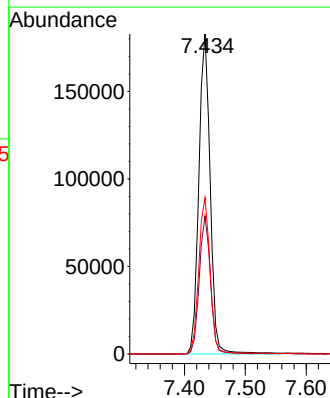
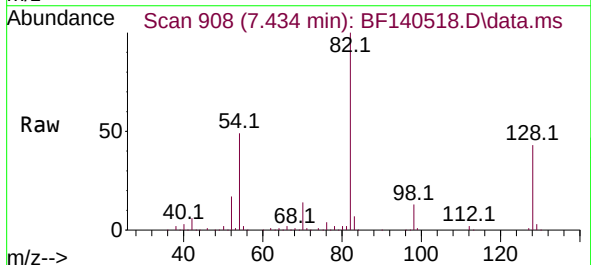
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.7	13.1
54	7.3	6.5	9.7
68	5.3	5.0	7.6

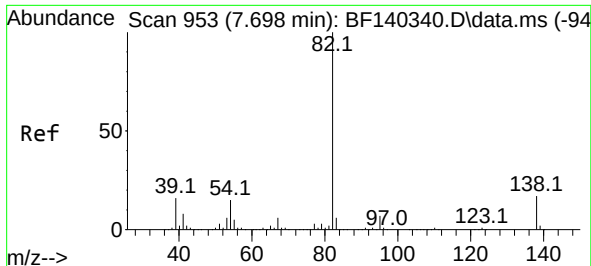


#23
Nitrobenzene-d5
Concen: 57.060 ng
RT: 7.434 min Scan# 908
Delta R.T. -0.006 min
Lab File: BF140518.D
Acq: 20 Nov 2024 23:32

Tgt Ion: 82 Resp: 236378

Ion	Ratio	Lower	Upper
82	100		
128	43.1	33.3	49.9
54	48.9	39.8	59.8

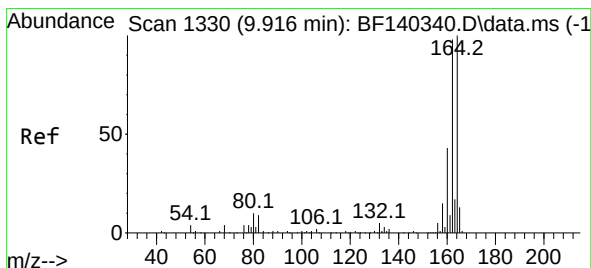
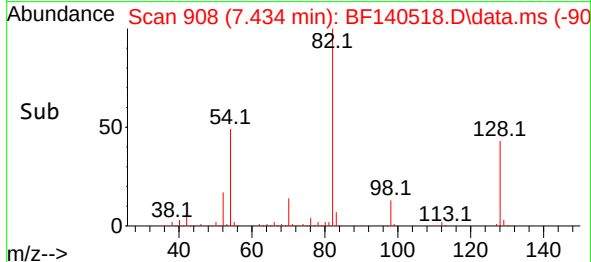
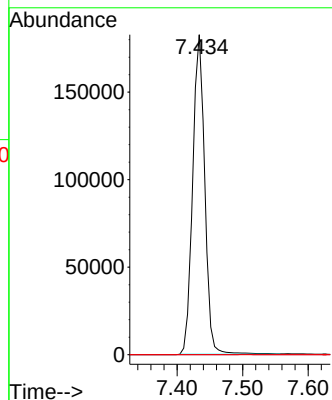
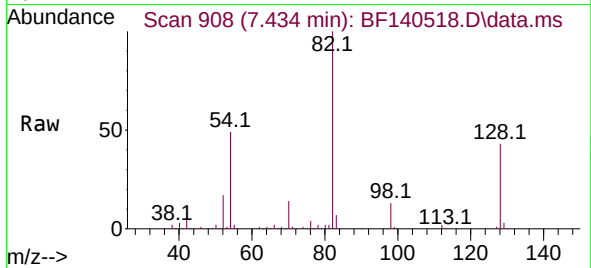




#25
Isophorone
Concen: 31.819 ng
RT: 7.434 min Scan# 90
Delta R.T. -0.265 min
Lab File: BF140518.D
Acq: 20 Nov 2024 23:32

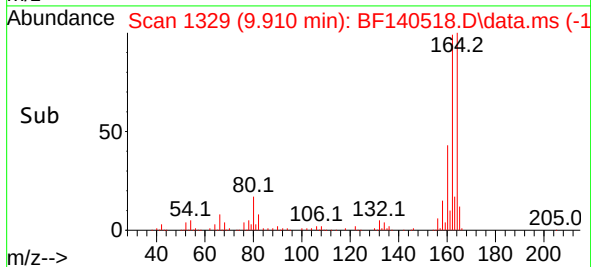
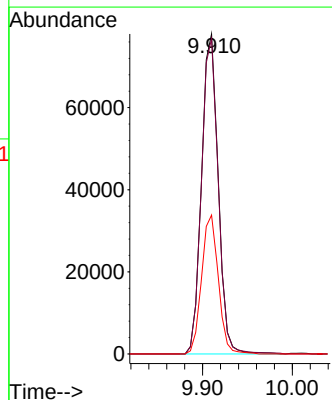
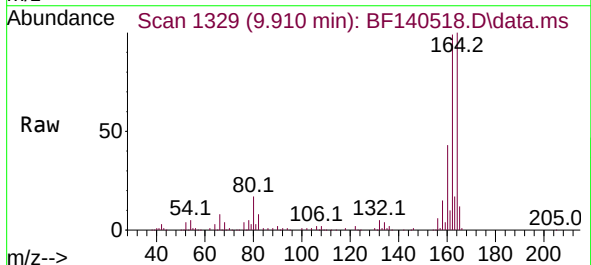
Instrument :
BNA_F
ClientSampleId :
SOIL-1

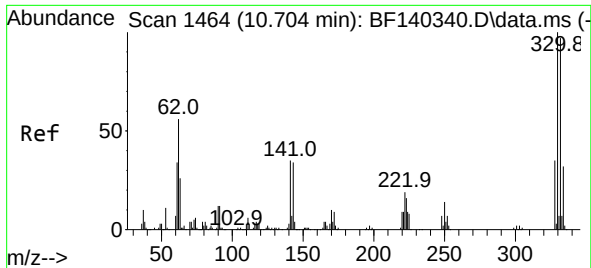
Tgt Ion: 82 Resp: 233611
Ion Ratio Lower Upper
82 100
95 0.0 5.9 8.9#
138 0.0 13.4 20.2#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140518.D
Acq: 20 Nov 2024 23:32

Tgt Ion:164 Resp: 100423
Ion Ratio Lower Upper
164 100
162 98.6 79.8 119.8
160 43.4 35.4 53.0

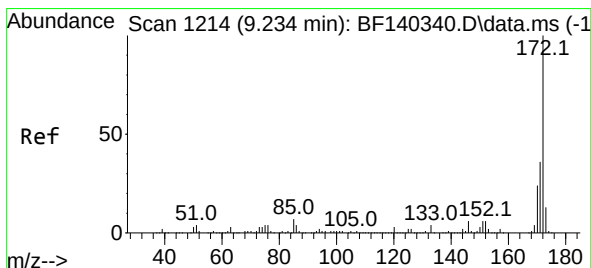
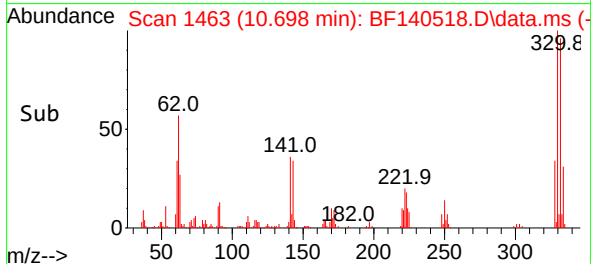
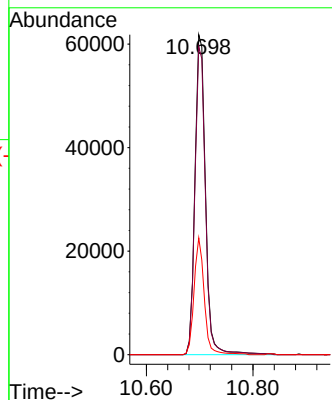
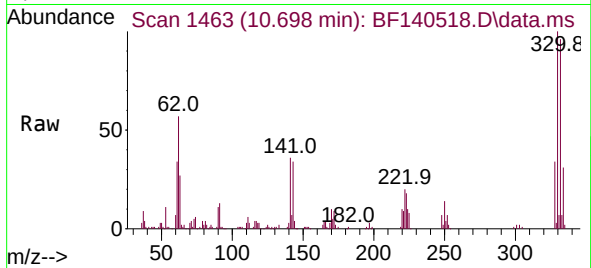




#42
2,4,6-Tribromophenol
Concen: 85.493 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF140518.D
Acq: 20 Nov 2024 23:32

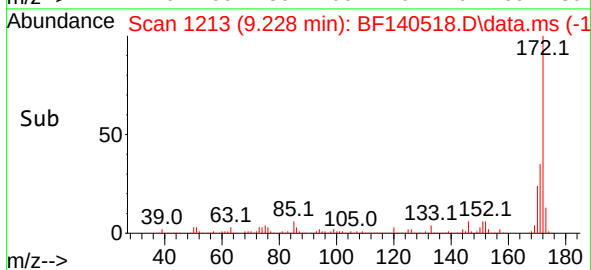
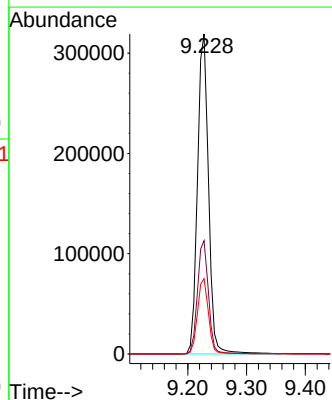
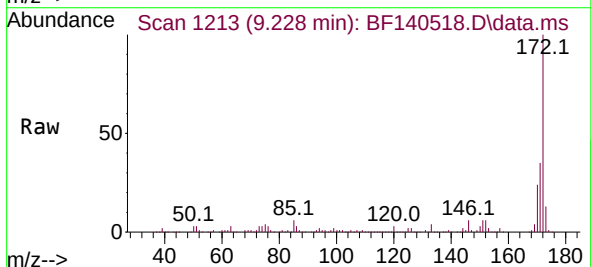
Instrument :
BNA_F
ClientSampleId :
SOIL-1

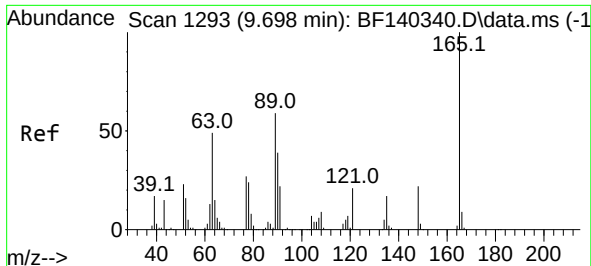
Tgt Ion: 330 Resp: 85376
Ion Ratio Lower Upper
330 100
332 96.2 75.9 113.9
141 35.3 26.9 40.3



#45
2-Fluorobiphenyl
Concen: 66.609 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140518.D
Acq: 20 Nov 2024 23:32

Tgt Ion: 172 Resp: 416105
Ion Ratio Lower Upper
172 100
171 35.4 28.5 42.7
170 23.5 19.1 28.7





#51

2,6-Dinitrotoluene

Concen: 8.239 ng

RT: 9.910 min Scan# 1329

Delta R.T. 0.212 min

Lab File: BF140518.D

Acq: 20 Nov 2024 23:32

Instrument :

BNA_F

ClientSampleId :

SOIL-1

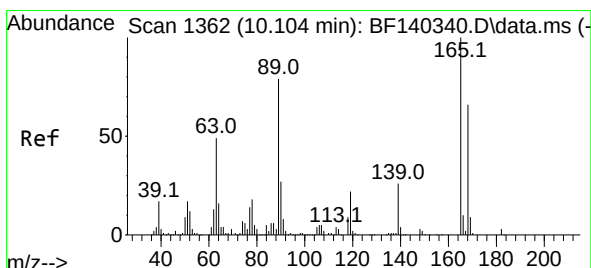
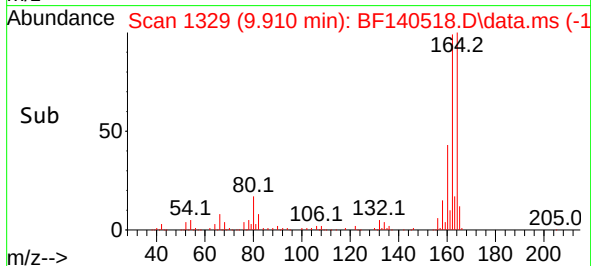
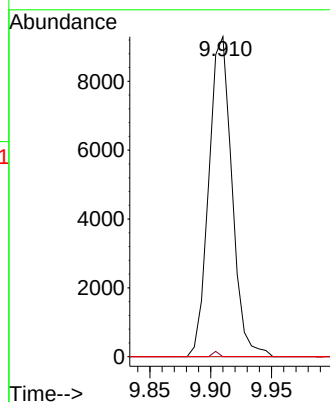
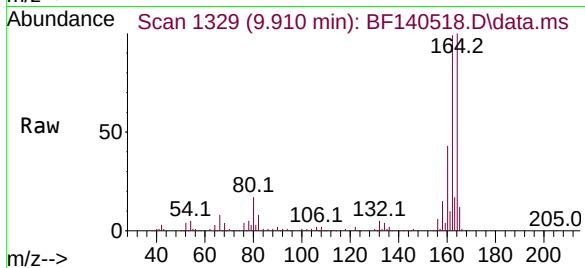
Tgt Ion:165 Resp: 12295

Ion Ratio Lower Upper

165 100

63 0.0 47.6 71.4#

89 0.0 48.1 72.1#



#57

2,4-Dinitrotoluene

Concen: 6.260 ng

RT: 9.910 min Scan# 1329

Delta R.T. -0.194 min

Lab File: BF140518.D

Acq: 20 Nov 2024 23:32

Tgt Ion:165 Resp: 12295

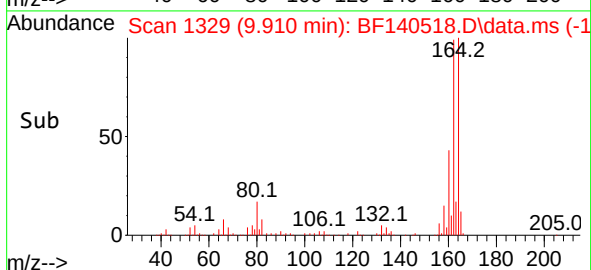
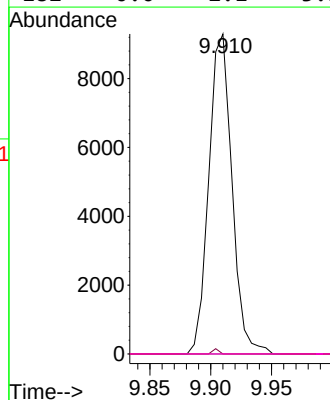
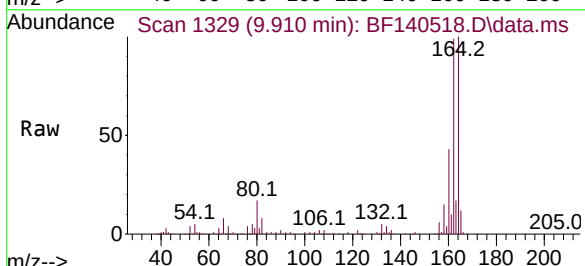
Ion Ratio Lower Upper

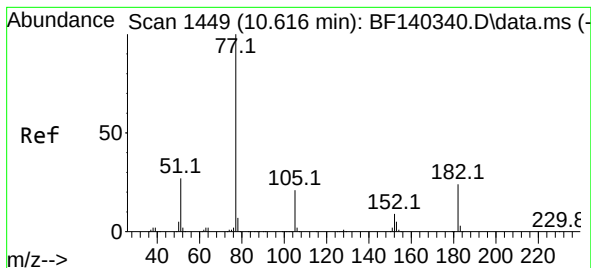
165 100

63 0.0 39.4 59.0#

89 0.0 62.4 93.6#

182 0.0 2.1 3.1#





#63

Azobenzene

Concen: 6.727 ng

RT: 10.622 min Scan# 1449

Delta R.T. 0.006 min

Lab File: BF140518.D

Acq: 20 Nov 2024 23:32

Instrument :

BNA_F

ClientSampleId :

SOIL-1

Tgt Ion: 77 Resp: 44489

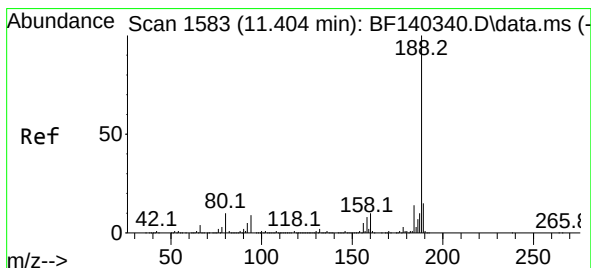
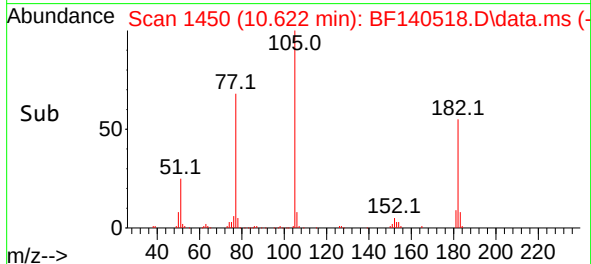
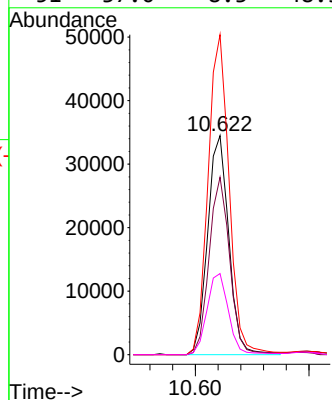
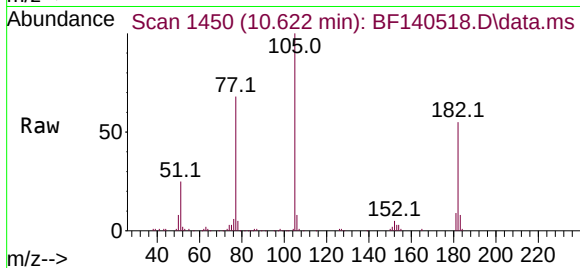
Ion Ratio Lower Upper

77 100

182 81.0 4.6 44.6#

105 146.1 0.9 40.9#

51 37.0 8.3 48.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.006 min

Lab File: BF140518.D

Acq: 20 Nov 2024 23:32

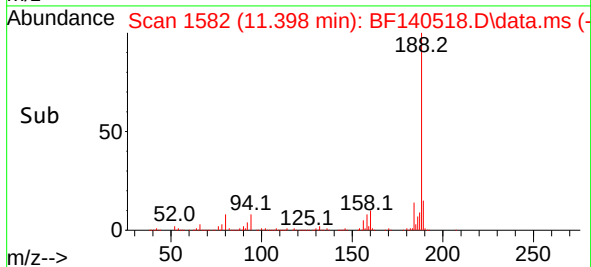
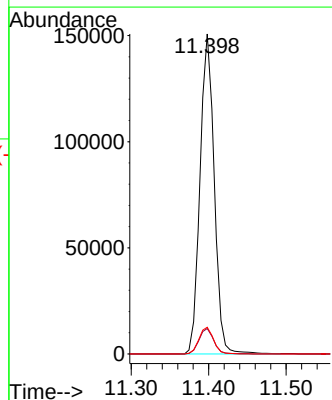
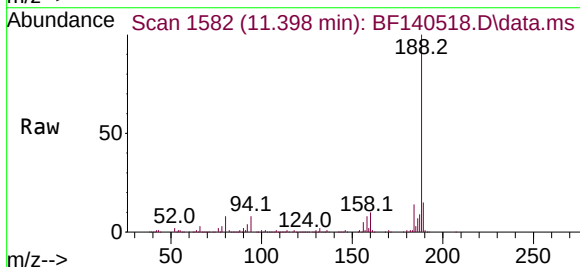
Tgt Ion: 188 Resp: 192326

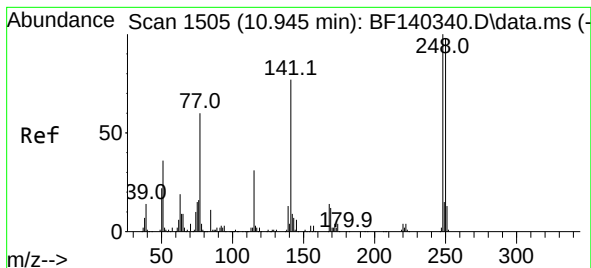
Ion Ratio Lower Upper

188 100

94 7.9 7.6 11.4

80 8.4 8.0 12.0

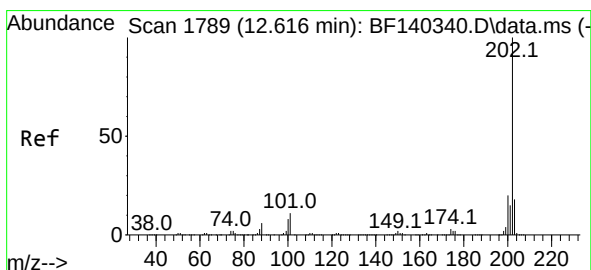
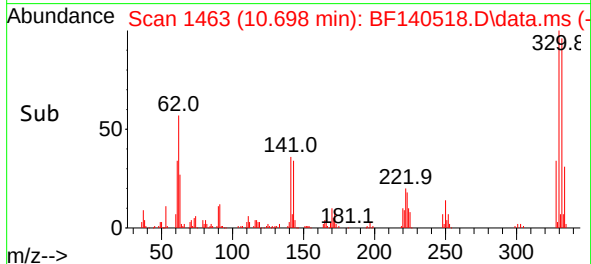
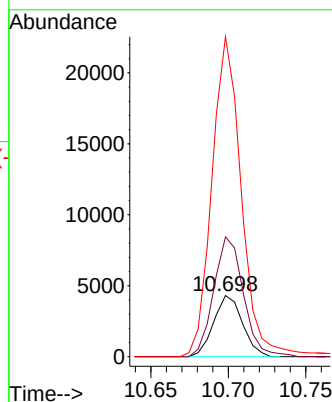
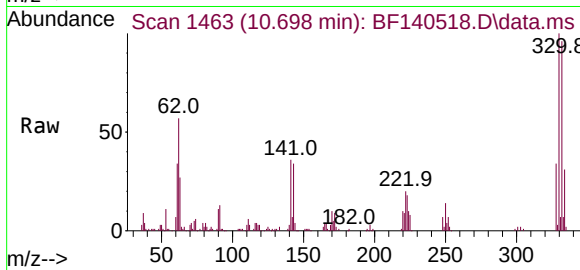




#67
4-Bromophenyl-phenylether
Concen: 2.905 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.247 min
Lab File: BF140518.D
Acq: 20 Nov 2024 23:32

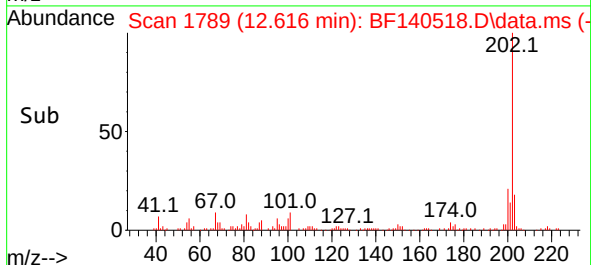
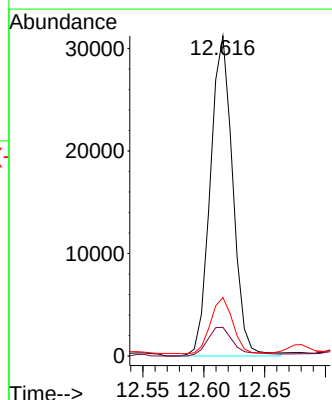
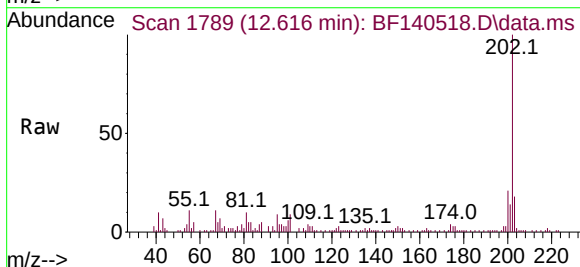
Instrument :
BNA_F
ClientSampleId :
SOIL-1

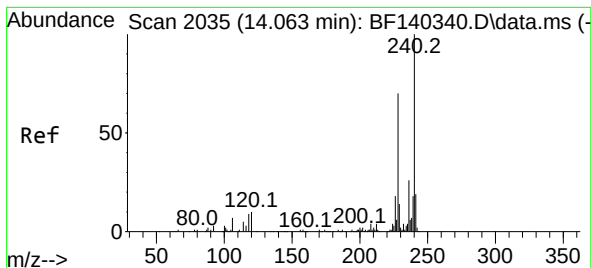
Tgt Ion:248 Resp: 5585
Ion Ratio Lower Upper
248 100
250 196.2 77.9 116.9#
141 524.0 61.8 92.6#



#75
Fluoranthene
Concen: 3.959 ng
RT: 12.616 min Scan# 1789
Delta R.T. -0.000 min
Lab File: BF140518.D
Acq: 20 Nov 2024 23:32

Tgt Ion:202 Resp: 40128
Ion Ratio Lower Upper
202 100
101 8.9 0.0 30.7
203 18.2 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.045 min Scan# 2035

Delta R.T. -0.006 min

Lab File: BF140518.D

Acq: 20 Nov 2024 23:32

Instrument :

BNA_F

ClientSampleId :

SOIL-1

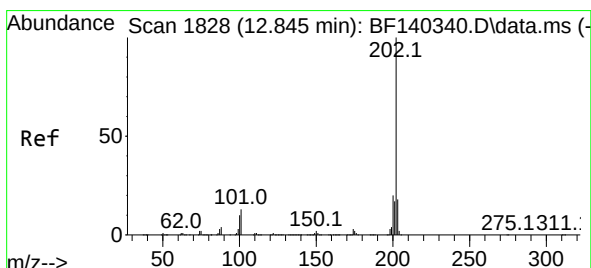
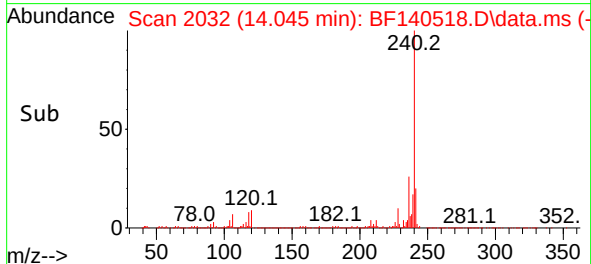
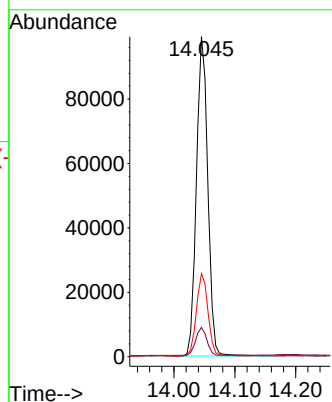
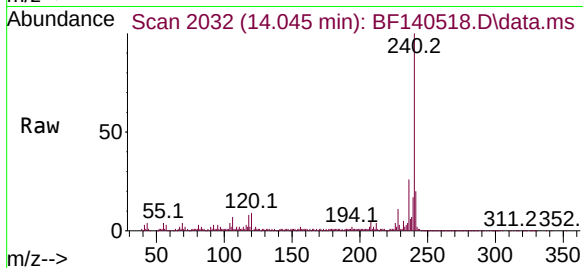
Tgt Ion:240 Resp: 128755

Ion Ratio Lower Upper

240 100

120 9.1 8.8 13.2

236 26.0 20.9 31.3



#78

Pyrene

Concen: 4.607 ng

RT: 12.845 min Scan# 1828

Delta R.T. -0.000 min

Lab File: BF140518.D

Acq: 20 Nov 2024 23:32

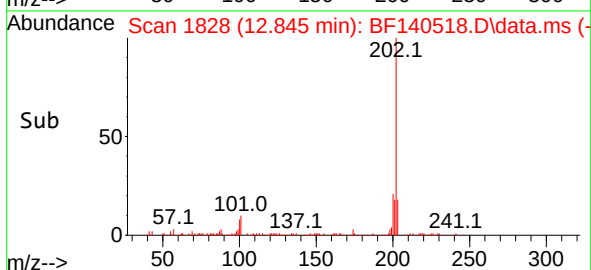
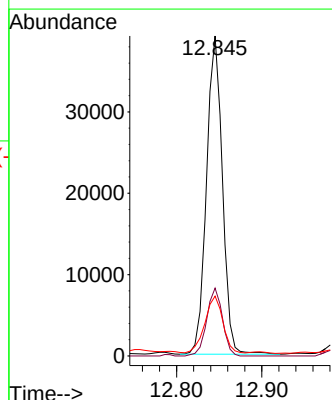
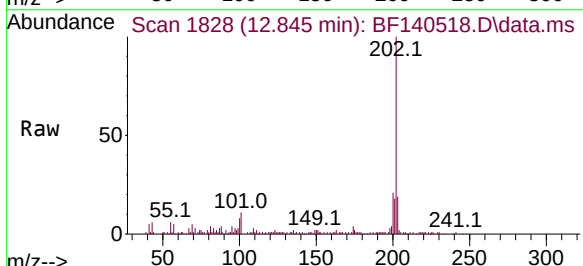
Tgt Ion:202 Resp: 50736

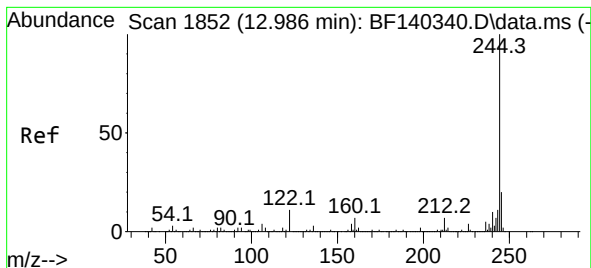
Ion Ratio Lower Upper

202 100

200 21.2 16.2 24.2

203 18.7 14.2 21.4





#79

Terphenyl-d14

Concen: 62.739 ng

RT: 12.986 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF140518.D

Acq: 20 Nov 2024 23:32

Instrument :

BNA_F

ClientSampleId :

SOIL-1

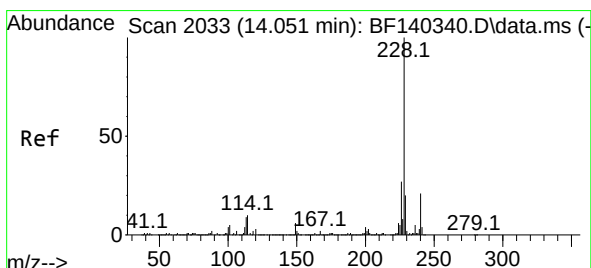
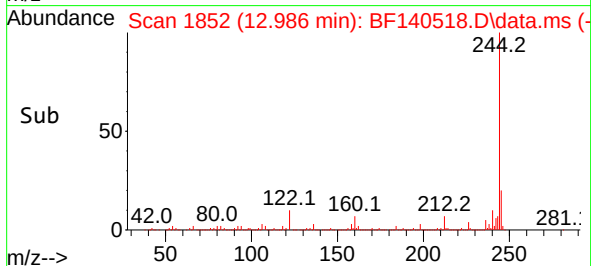
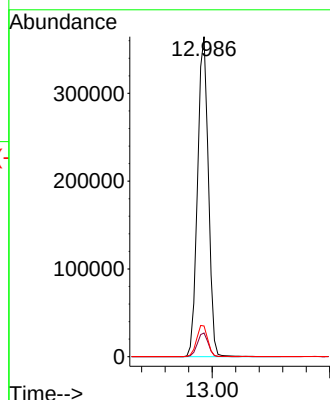
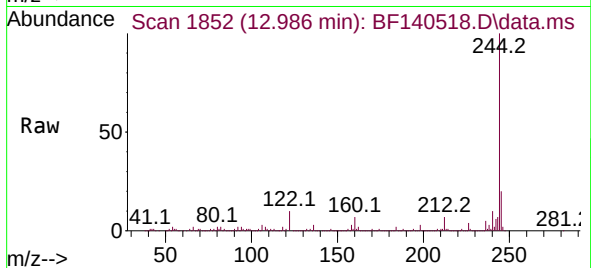
Tgt Ion:244 Resp: 465375

Ion Ratio Lower Upper

244 100

212 7.4 5.8 8.8

122 9.6 8.8 13.2



#81

Benzo(a)anthracene

Concen: 2.722 ng

RT: 14.033 min Scan# 2030

Delta R.T. -0.006 min

Lab File: BF140518.D

Acq: 20 Nov 2024 23:32

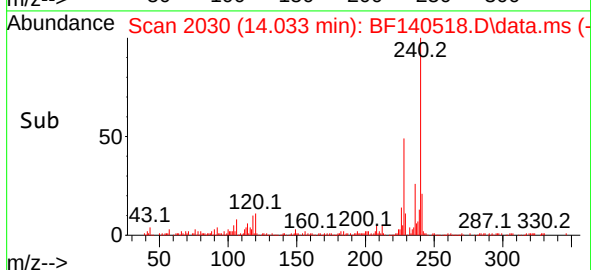
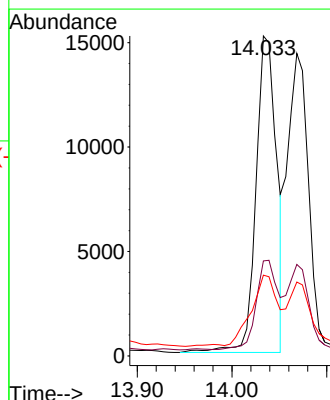
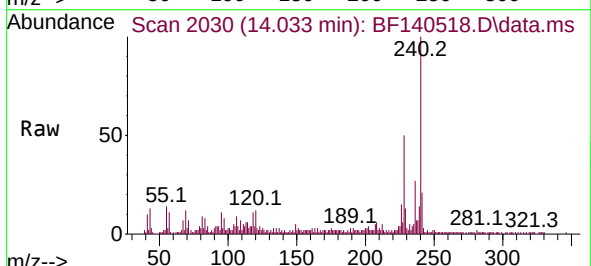
Tgt Ion:228 Resp: 23033

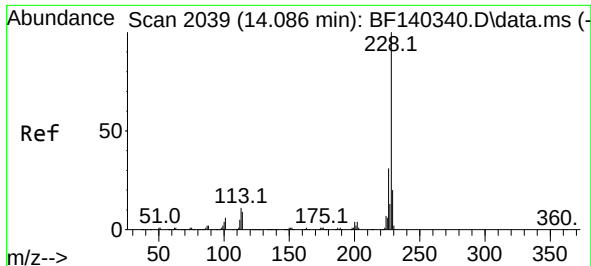
Ion Ratio Lower Upper

228 100

226 29.7 22.2 33.4

229 25.2 15.8 23.6#

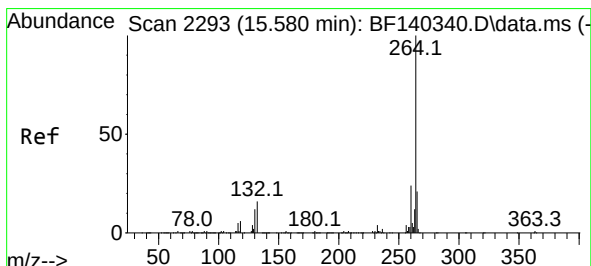
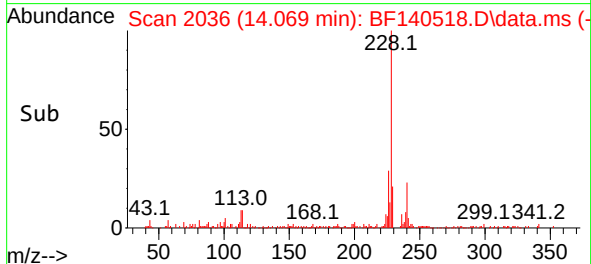
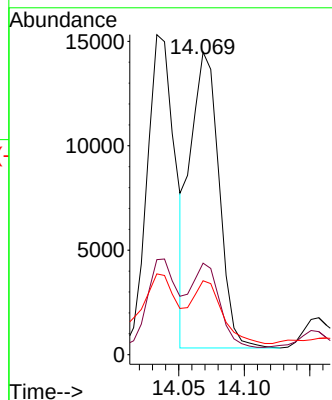
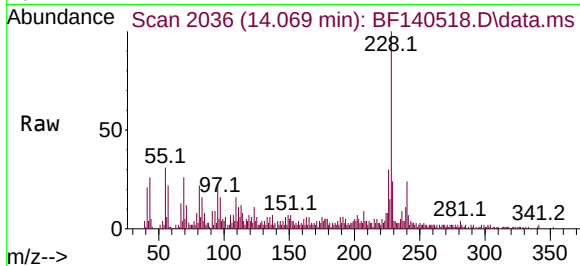




#83
Chrysene
Concen: 2.787 ng
RT: 14.069 min Scan# 2039
Delta R.T. -0.012 min
Lab File: BF140518.D
Acq: 20 Nov 2024 23:32

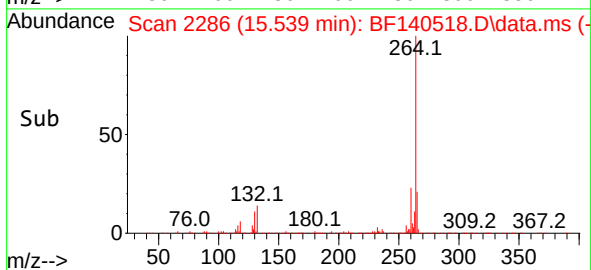
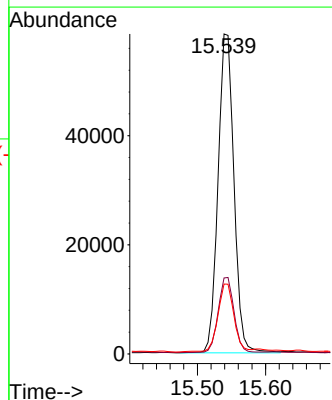
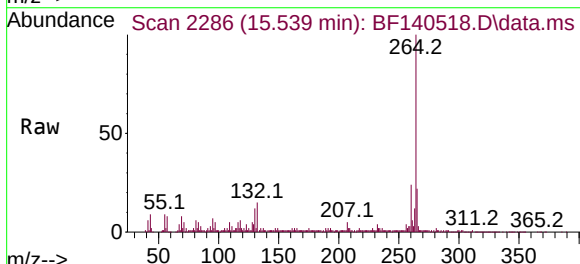
Instrument :
BNA_F
ClientSampleId :
SOIL-1

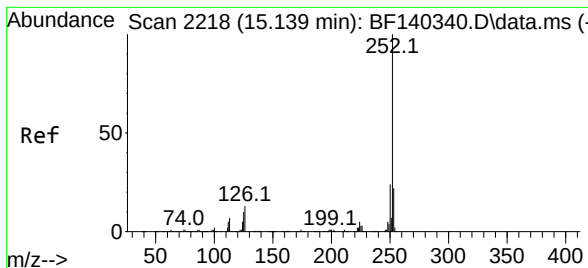
Tgt Ion:228 Resp: 21515
Ion Ratio Lower Upper
228 100
226 30.3 24.5 36.7
229 24.4 16.0 24.0#



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. -0.018 min
Lab File: BF140518.D
Acq: 20 Nov 2024 23:32

Tgt Ion:264 Resp: 95058
Ion Ratio Lower Upper
264 100
260 23.7 19.2 28.8
265 21.8 17.1 25.7





#88

Benzo(b)fluoranthene

Concen: 5.830 ng

RT: 15.104 min Scan# 2212

Delta R.T. -0.012 min

Lab File: BF140518.D

Acq: 20 Nov 2024 23:32

Instrument :

BNA_F

ClientSampleId :

SOIL-1

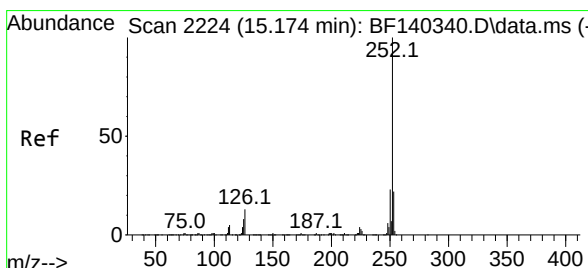
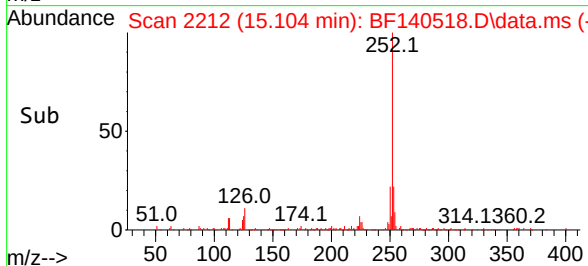
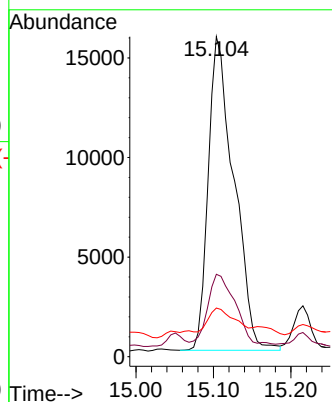
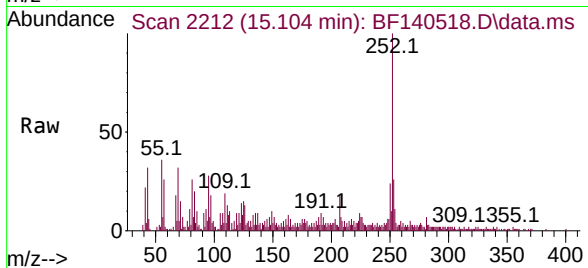
Tgt Ion:252 Resp: 36254

Ion Ratio Lower Upper

252 100

253 25.7 17.5 26.3

125 15.2 8.0 12.0#



#89

Benzo(k)fluoranthene

Concen: 7.137 ng

RT: 15.104 min Scan# 2212

Delta R.T. -0.047 min

Lab File: BF140518.D

Acq: 20 Nov 2024 23:32

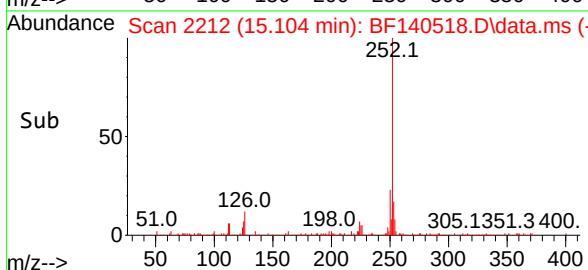
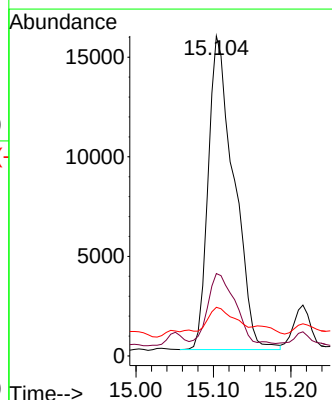
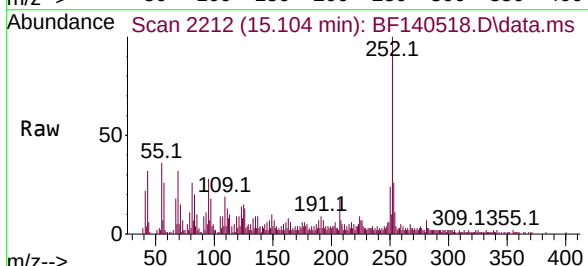
Tgt Ion:252 Resp: 36254

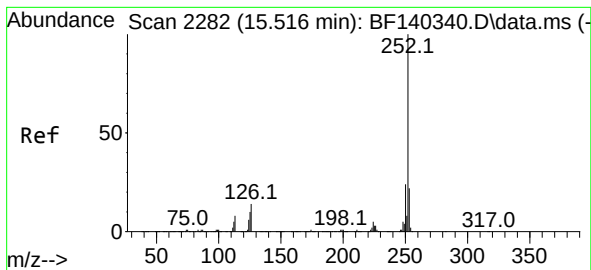
Ion Ratio Lower Upper

252 100

253 25.7 17.3 25.9

125 15.2 7.4 11.2#





#90

Benzo(a)pyrene

Concen: 2.729 ng

RT: 15.480 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF140518.D

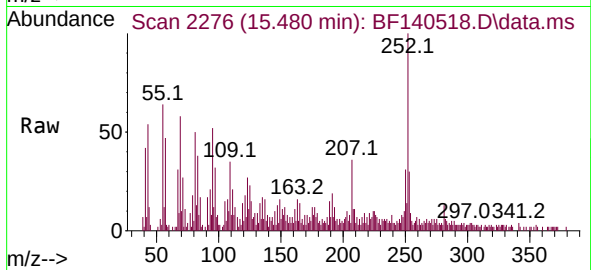
Acq: 20 Nov 2024 23:32

Instrument :

BNA_F

ClientSampleId :

SOIL-1



Tgt Ion:252 Resp: 13177

Ion Ratio Lower Upper

252 100

253 29.7 17.8 26.6#

125 22.9 8.4 12.6#

