

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091824\
 Data File : BF139442.D
 Acq On : 18 Sep 2024 23:07
 Operator : RC/JU
 Sample : P4086-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL

Quant Time: Sep 19 01:31:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 14 02:58:23 2024
 Response via : Initial Calibration

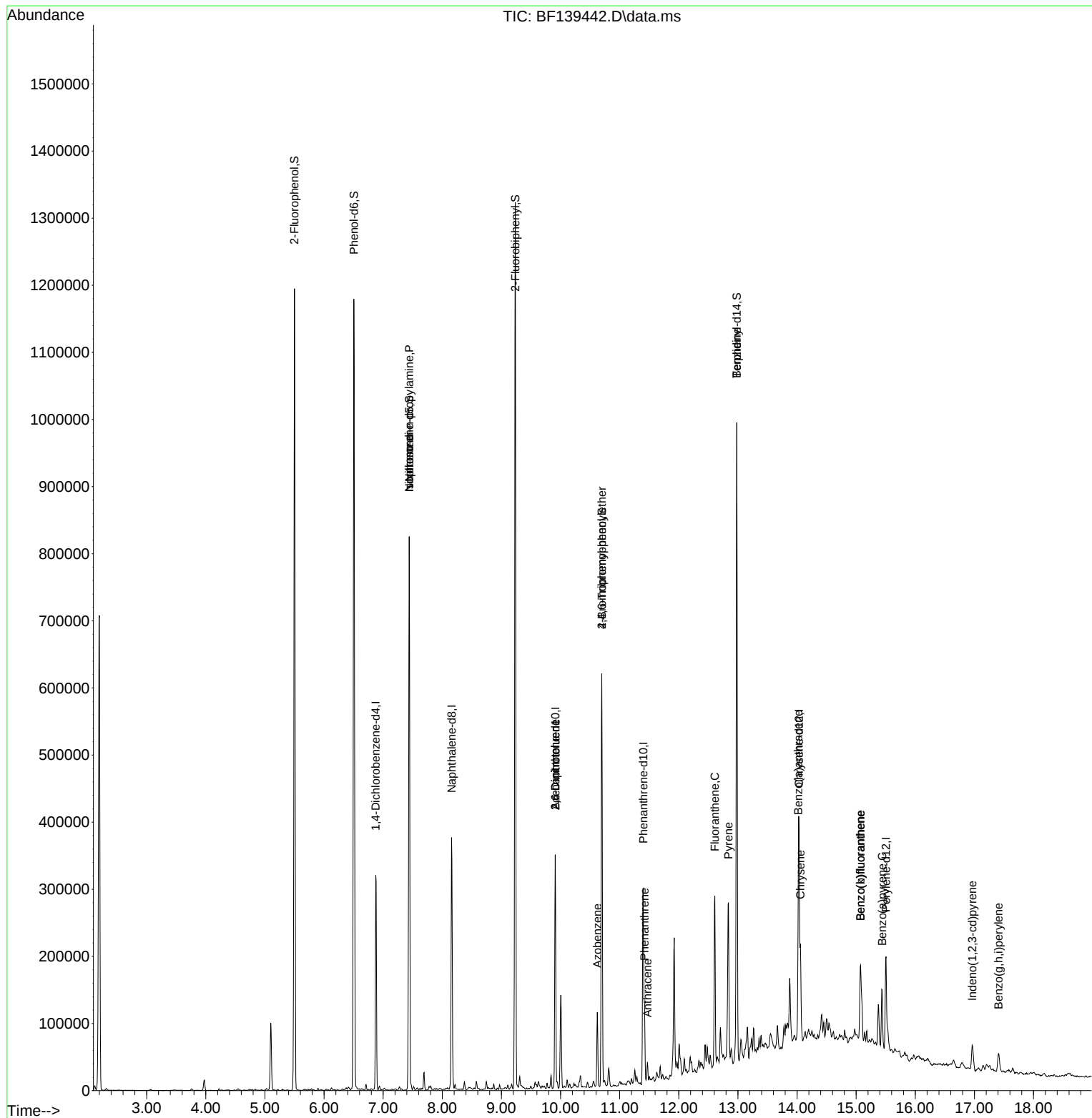
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	61101	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	215197	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	96090	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	153645	20.000	ng	0.00
76) Chrysene-d12	14.033	240	103125	20.000	ng	0.00
86) Perylene-d12	15.504	264	77805	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	380819	101.676	ng	0.00
7) Phenol-d6	6.504	99	496611	101.017	ng	0.00
23) Nitrobenzene-d5	7.440	82	340471	74.379	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	85489	83.567	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	538619	78.616	ng	0.00
79) Terphenyl-d14	12.980	244	427189	67.994	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propyla...	7.440	70	48257	16.565	ng	# 75
25) Isophorone	7.440	82	340464	47.029	ng	# 66
51) 2,6-Dinitrotoluene	9.910	165	12756	9.130	ng	# 15
57) 2,4-Dinitrotoluene	9.910	165	12756	6.763	ng	# 17
63) Azobenzene	10.622	77	27242	4.256	ng	# 3
67) 4-Bromophenyl-phenylether	10.698	248	6017	3.952	ng	# 1
71) Phenanthrene	11.422	178	59969	8.090	ng	99
72) Anthracene	11.469	178	15191	2.096	ng	96
75) Fluoranthene	12.610	202	141645	17.893	ng	99
77) Benzidine	12.980	184	6625	4.484	ng	# 86
78) Pyrene	12.839	202	140257	15.840	ng	99
81) Benzo(a)anthracene	14.022	228	87408	12.796	ng	96
83) Chrysene	14.057	228	72345	11.512	ng	96
87) Indeno(1,2,3-cd)pyrene	16.962	276	25330	5.475	ng	98
88) Benzo(b)fluoranthene	15.074	252	99955	20.830	ng	98
89) Benzo(k)fluoranthene	15.074	252	99955	22.592	ng	# 97
90) Benzo(a)pyrene	15.439	252	52555	13.206	ng	99
92) Benzo(g,h,i)perylene	17.410	276	25888	6.839	ng	95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091824\
Data File : BF139442.D
Acq On : 18 Sep 2024 23:07
Operator : RC/JU
Sample : P4086-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SOIL

Quant Time: Sep 19 01:31:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 14 02:58:23 2024
Response via : Initial Calibration

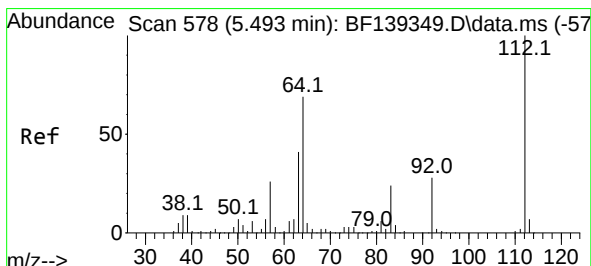
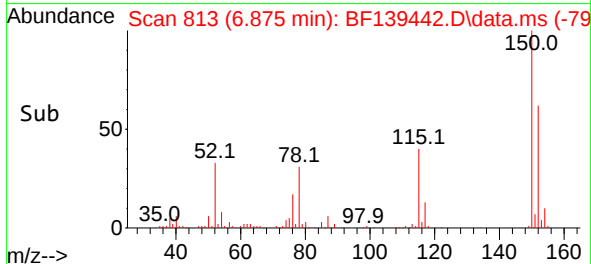
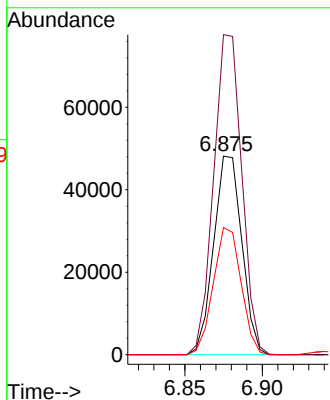
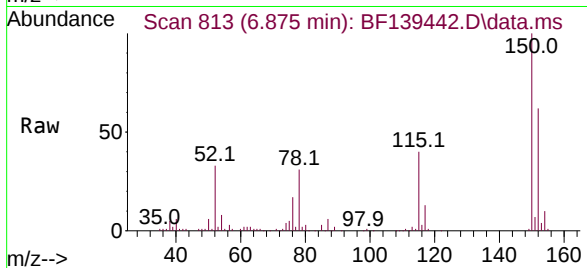




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF139442.D
Acq: 18 Sep 2024 23:07

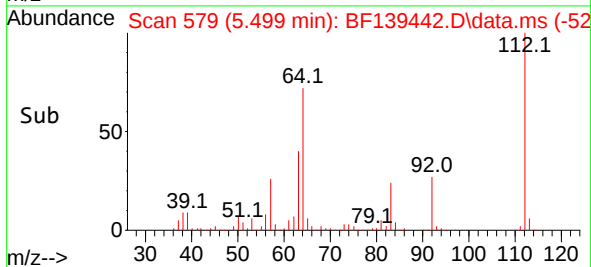
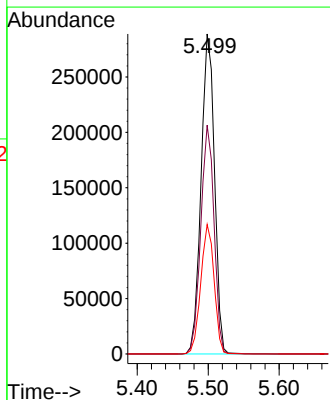
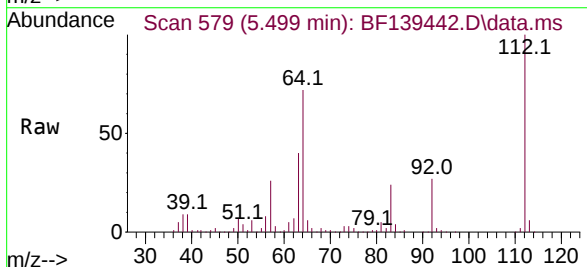
Instrument :
BNA_F
ClientSampleId :
SOIL

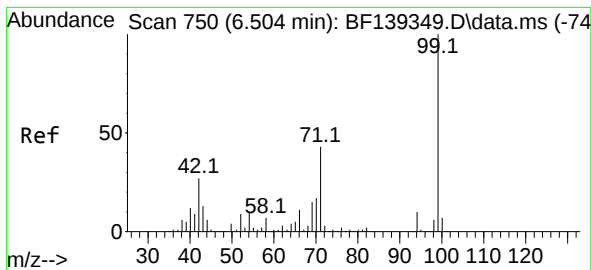
Tgt Ion:152 Resp: 61101
Ion Ratio Lower Upper
152 100
150 161.2 124.1 186.1
115 64.1 48.1 72.1



#5
2-Fluorophenol
Concen: 101.676 ng
RT: 5.499 min Scan# 579
Delta R.T. 0.006 min
Lab File: BF139442.D
Acq: 18 Sep 2024 23:07

Tgt Ion:112 Resp: 380819
Ion Ratio Lower Upper
112 100
64 71.5 54.8 82.2
63 40.5 33.0 49.4





#7

Phenol-d6

Concen: 101.017 ng

RT: 6.504 min Scan# 71

Delta R.T. -0.000 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

Instrument :

BNA_F

ClientSampleId :

SOIL

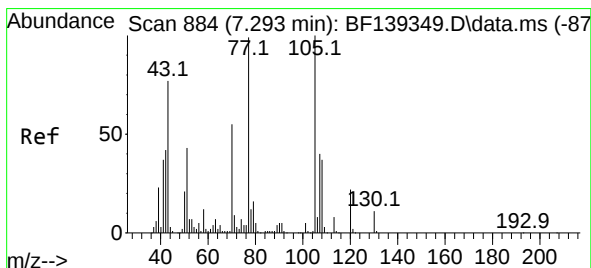
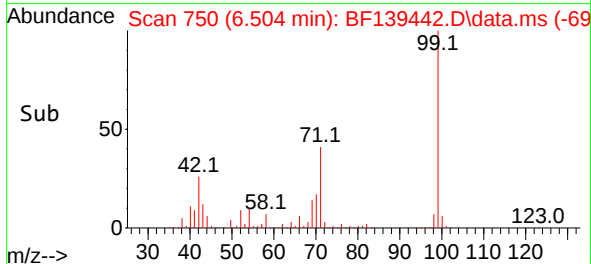
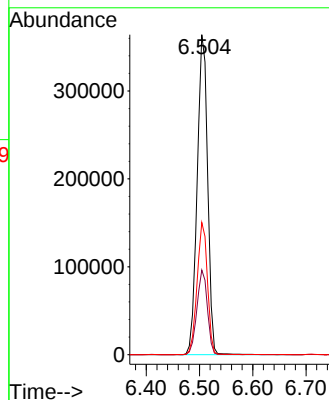
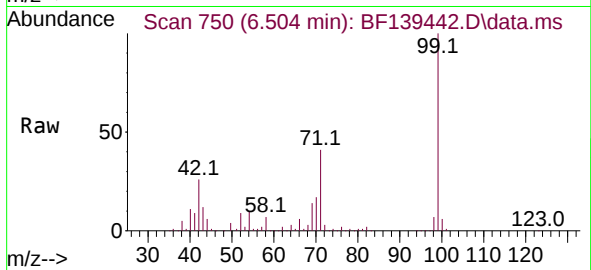
Tgt Ion: 99 Resp: 496611

Ion Ratio Lower Upper

99 100

42 26.4 21.9 32.9

71 41.3 34.6 52.0



#19

n-Nitroso-di-n-propylamine

Concen: 16.565 ng

RT: 7.440 min Scan# 909

Delta R.T. 0.147 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

Tgt Ion: 70 Resp: 48257

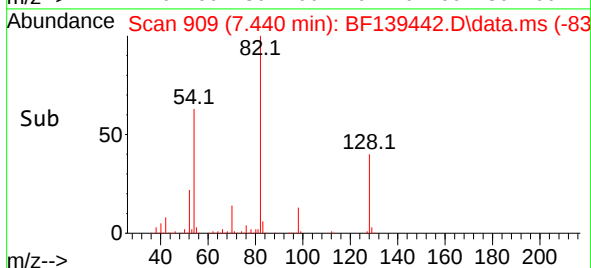
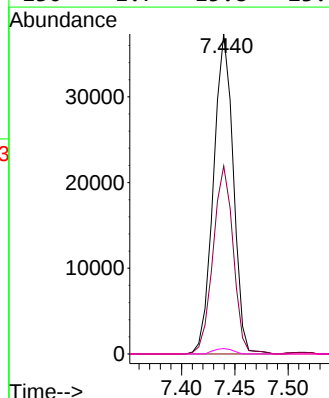
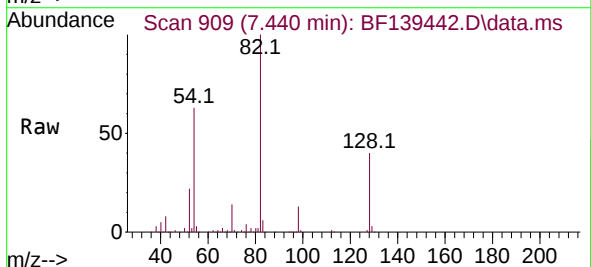
Ion Ratio Lower Upper

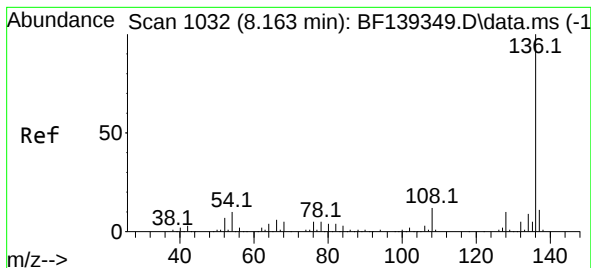
70 100

42 58.7 61.2 91.8#

101 0.0 7.5 11.3#

130 1.7 15.8 23.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.157 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

Instrument :

BNA_F

ClientSampleId :

SOIL

Tgt Ion:136 Resp: 215197

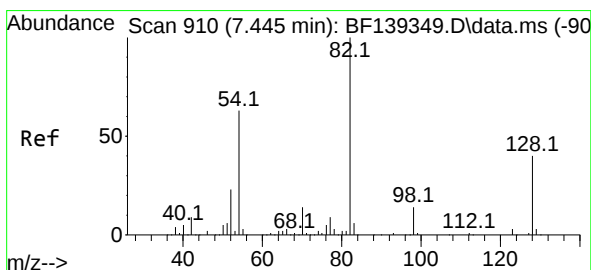
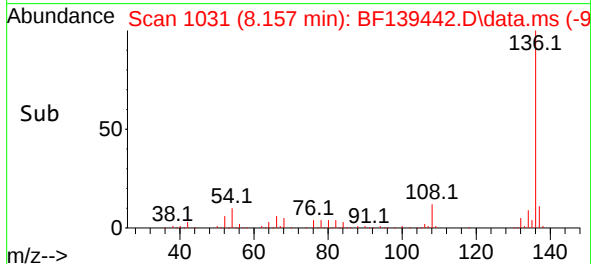
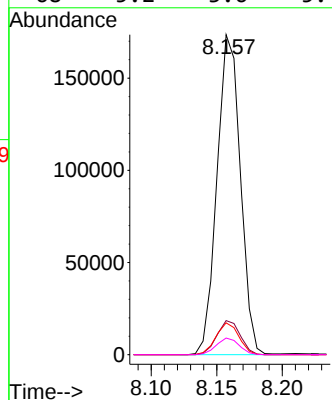
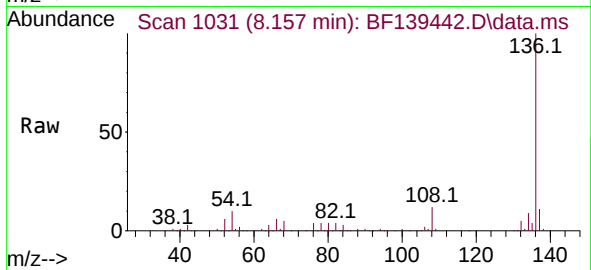
Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

54 10.0 7.8 11.8

68 5.2 3.6 5.4



#23

Nitrobenzene-d5

Concen: 74.379 ng

RT: 7.440 min Scan# 909

Delta R.T. -0.006 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

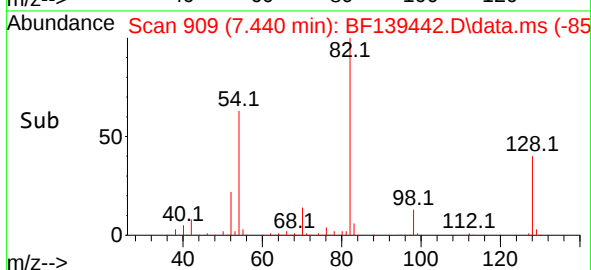
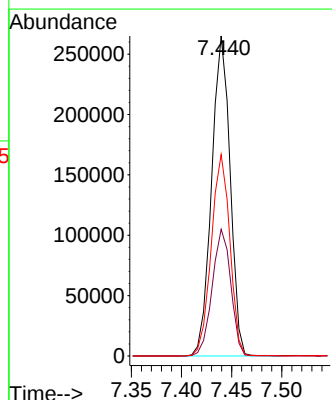
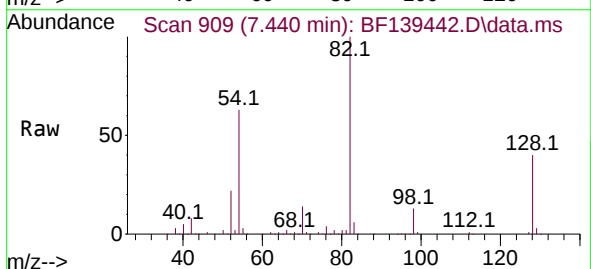
Tgt Ion: 82 Resp: 340471

Ion Ratio Lower Upper

82 100

128 39.6 31.8 47.6

54 62.9 50.6 75.8

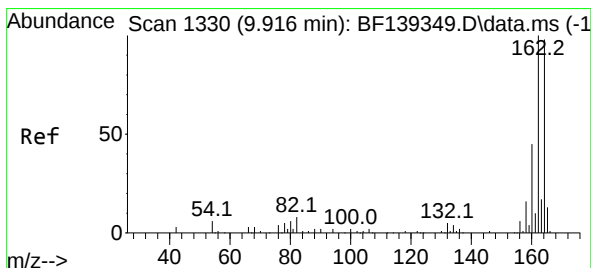
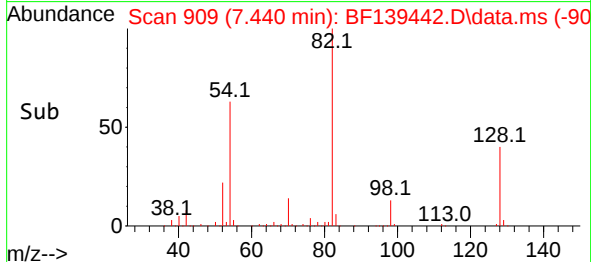
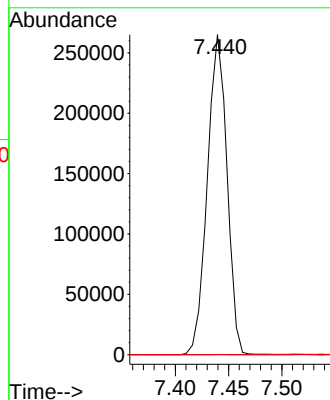
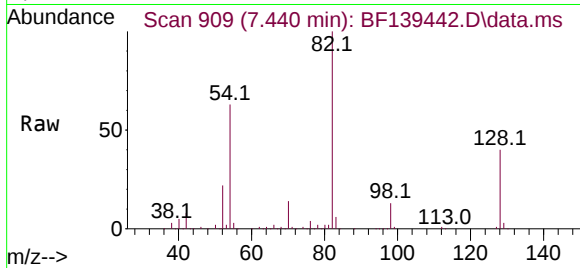




#25
Isophorone
Concen: 47.029 ng
RT: 7.440 min Scan# 90
Delta R.T. -0.259 min
Lab File: BF139442.D
Acq: 18 Sep 2024 23:07

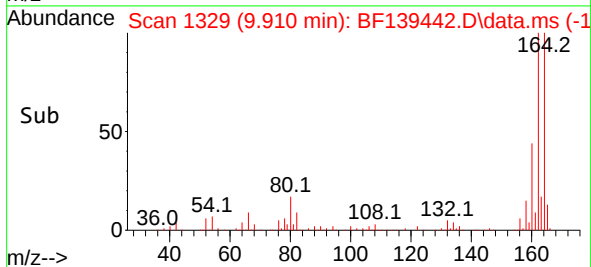
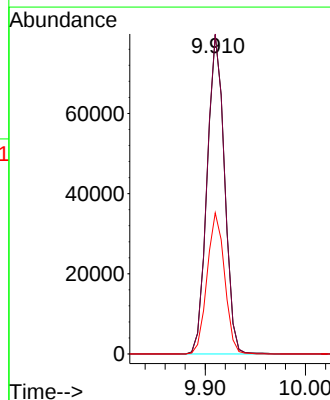
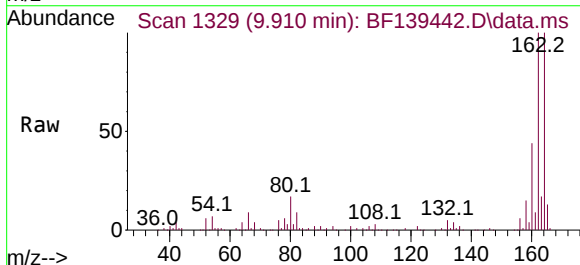
Instrument :
BNA_F
ClientSampleId :
SOIL

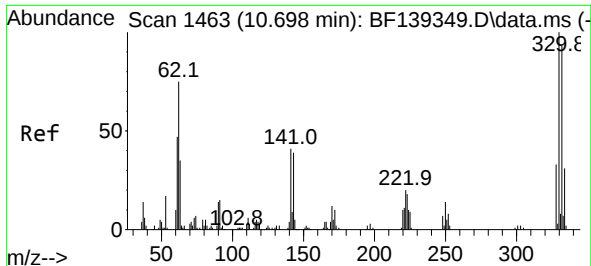
Tgt Ion: 82 Resp: 340464
Ion Ratio Lower Upper
82 100
95 0.1 6.7 10.1#
138 0.0 13.3 19.9#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF139442.D
Acq: 18 Sep 2024 23:07

Tgt Ion: 164 Resp: 96090
Ion Ratio Lower Upper
164 100
162 100.3 81.3 121.9
160 44.2 36.4 54.6

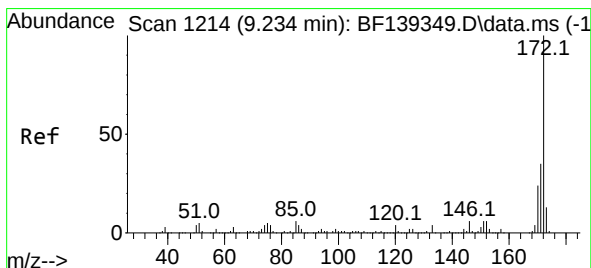
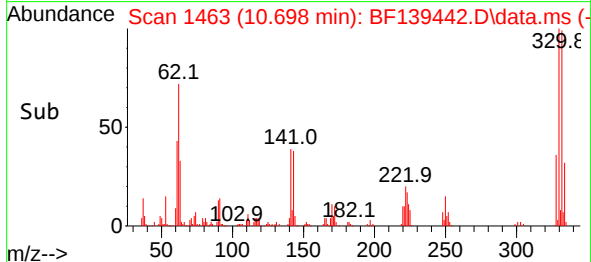
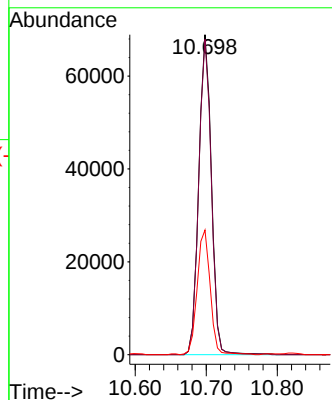
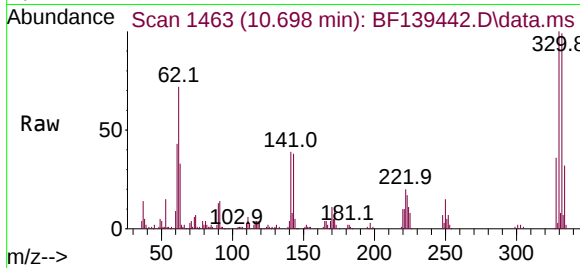




#42
2,4,6-Tribromophenol
Concen: 83.567 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.000 min
Lab File: BF139442.D
Acq: 18 Sep 2024 23:07

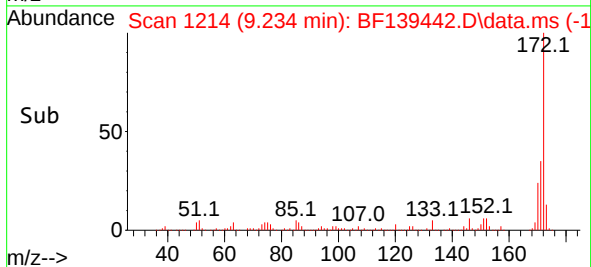
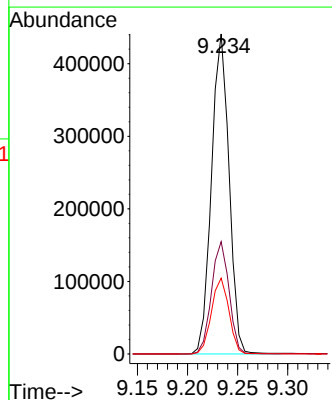
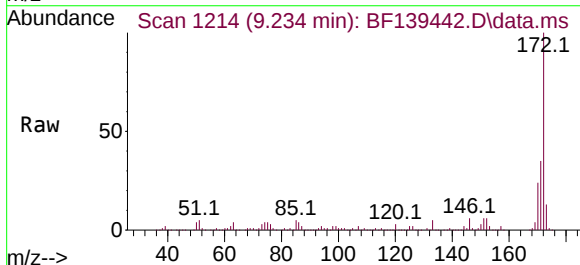
Instrument :
BNA_F
ClientSampleId :
SOIL

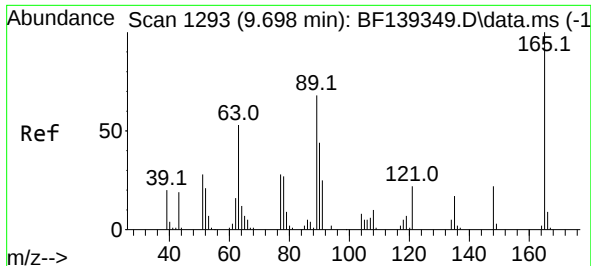
Tgt Ion:330 Resp: 85489
Ion Ratio Lower Upper
330 100
332 98.0 75.2 112.8
141 40.3 31.2 46.8



#45
2-Fluorobiphenyl
Concen: 78.616 ng
RT: 9.234 min Scan# 1214
Delta R.T. -0.000 min
Lab File: BF139442.D
Acq: 18 Sep 2024 23:07

Tgt Ion:172 Resp: 538619
Ion Ratio Lower Upper
172 100
171 35.1 28.3 42.5
170 23.7 19.0 28.6

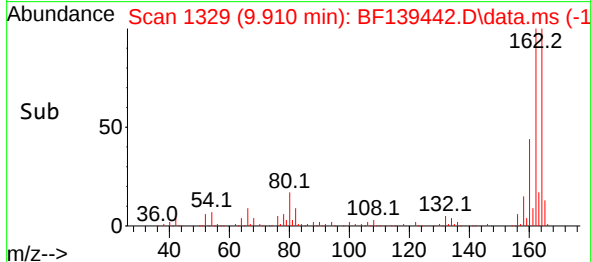
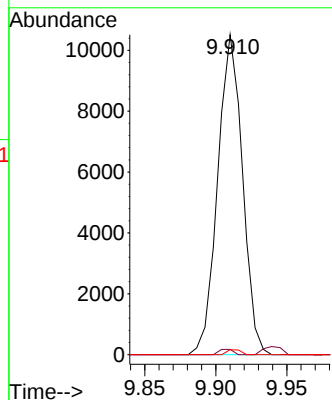
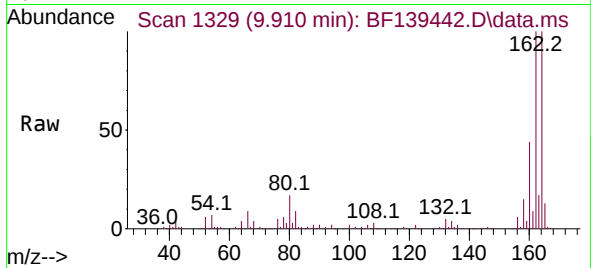




#51
2,6-Dinitrotoluene
Concen: 9.130 ng
RT: 9.910 min Scan# 11
Delta R.T. 0.212 min
Lab File: BF139442.D
Acq: 18 Sep 2024 23:07

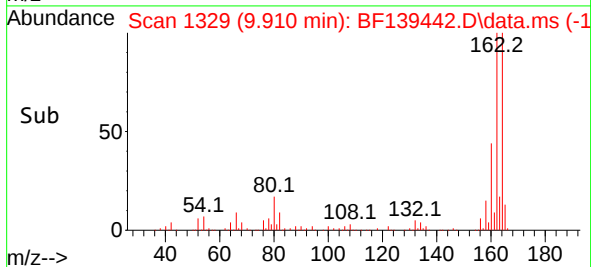
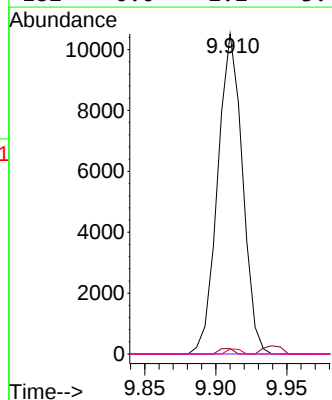
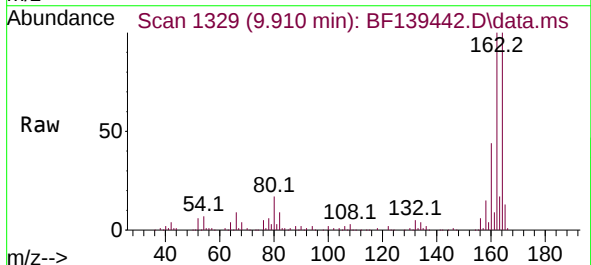
Instrument :
BNA_F
ClientSampleId :
SOIL

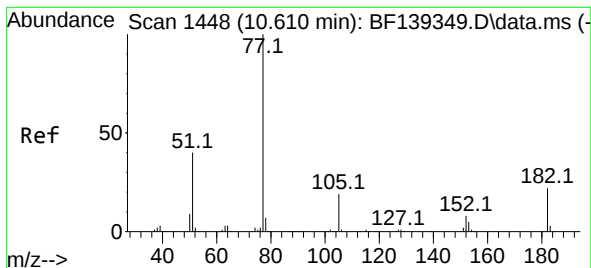
Tgt Ion:165 Resp: 12756
Ion Ratio Lower Upper
165 100
63 1.7 60.9 91.3#
89 1.6 54.7 82.1#



#57
2,4-Dinitrotoluene
Concen: 6.763 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.188 min
Lab File: BF139442.D
Acq: 18 Sep 2024 23:07

Tgt Ion:165 Resp: 12756
Ion Ratio Lower Upper
165 100
63 1.7 47.8 71.6#
89 1.6 66.7 100.1#
182 0.0 2.2 3.4#





#63

Azobenzene

Concen: 4.256 ng

RT: 10.622 min Scan# 1448

Delta R.T. 0.012 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

Instrument :

BNA_F

ClientSampleId :

SOIL

Tgt Ion: 77 Resp: 27242

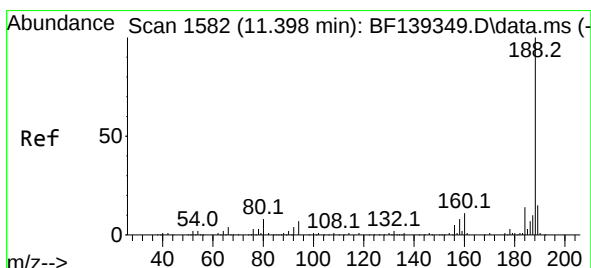
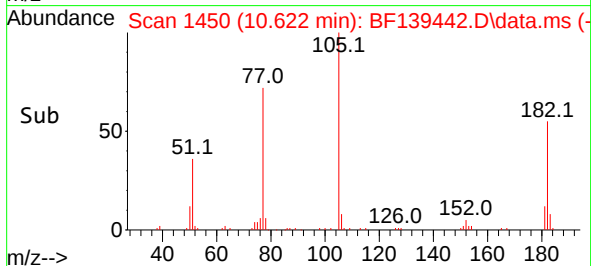
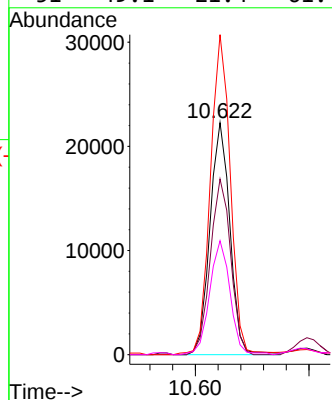
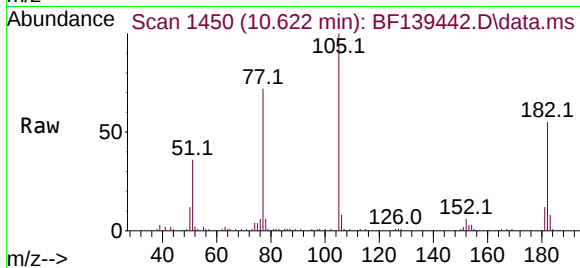
Ion Ratio Lower Upper

77 100

182 75.7 1.8 41.8#

105 138.0 0.0 38.6#

51 49.1 21.4 61.4



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.000 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

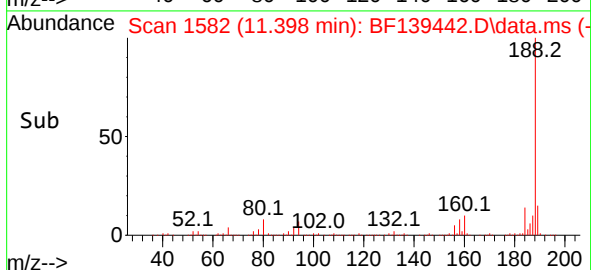
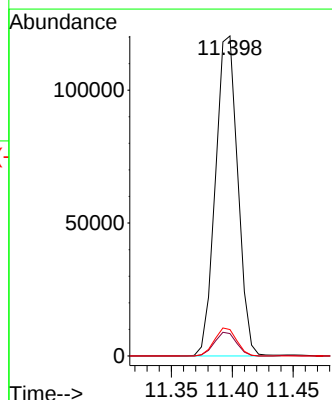
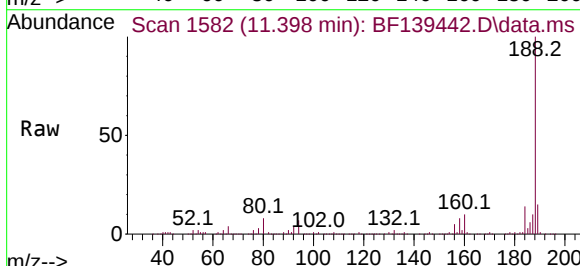
Tgt Ion: 188 Resp: 153645

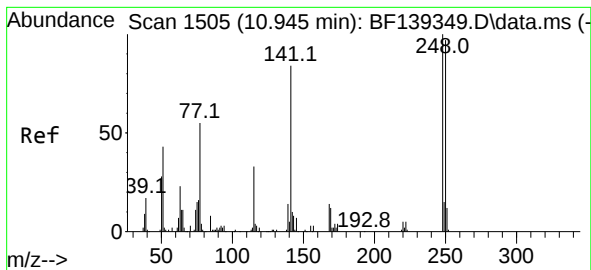
Ion Ratio Lower Upper

188 100

94 7.0 5.5 8.3

80 8.3 6.6 9.8

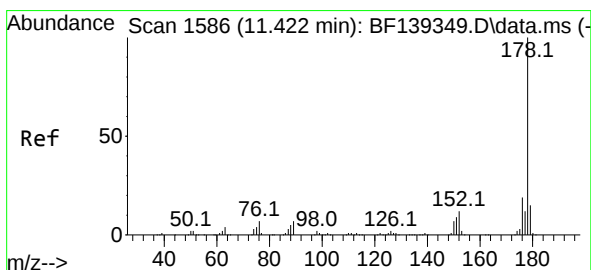
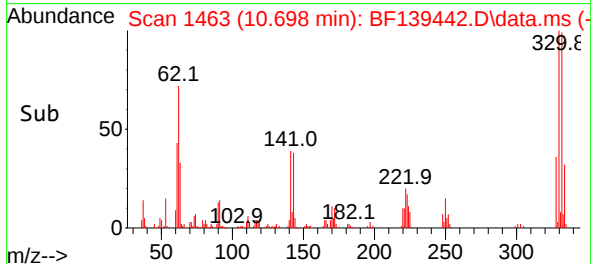
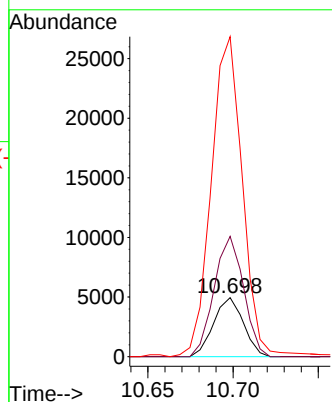
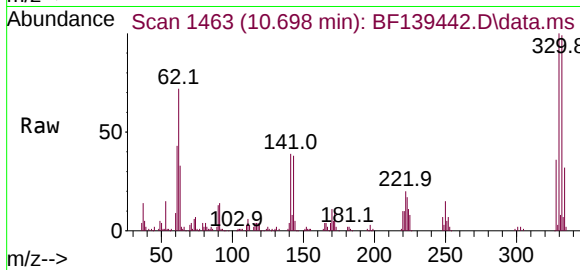




#67
4-Bromophenyl-phenylether
Concen: 3.952 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.247 min
Lab File: BF139442.D
Acq: 18 Sep 2024 23:07

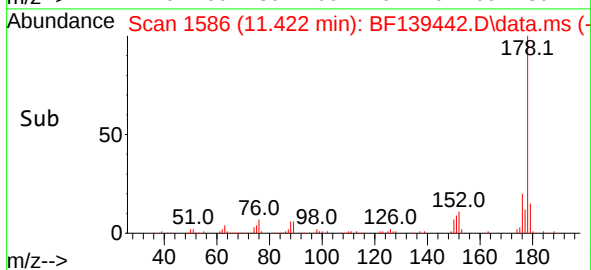
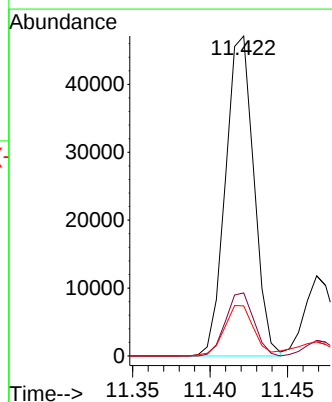
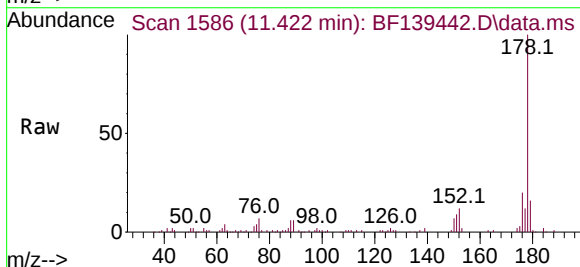
Instrument :
BNA_F
ClientSampleId :
SOIL

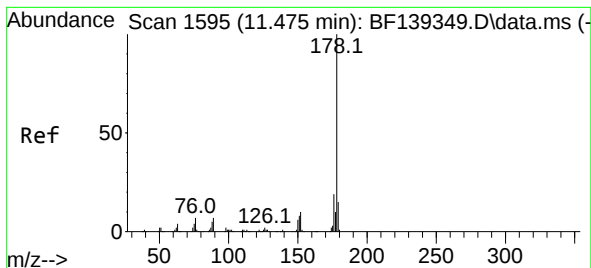
Tgt Ion:248 Resp: 6017
Ion Ratio Lower Upper
248 100
250 203.9 77.6 116.4#
141 542.1 66.9 100.3#



#71
Phenanthrene
Concen: 8.090 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF139442.D
Acq: 18 Sep 2024 23:07

Tgt Ion:178 Resp: 59969
Ion Ratio Lower Upper
178 100
176 19.7 15.2 22.8
179 15.7 12.2 18.4





#72

Anthracene

Concen: 2.096 ng

RT: 11.469 min Scan# 1594

Delta R.T. -0.006 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

Instrument :

BNA_F

ClientSampleId :

SOIL

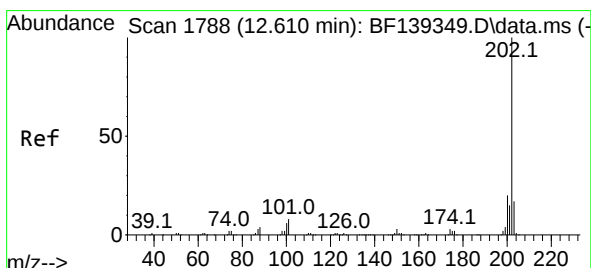
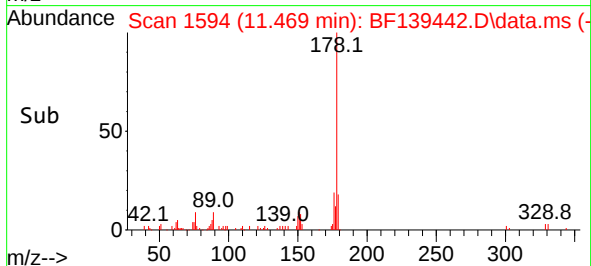
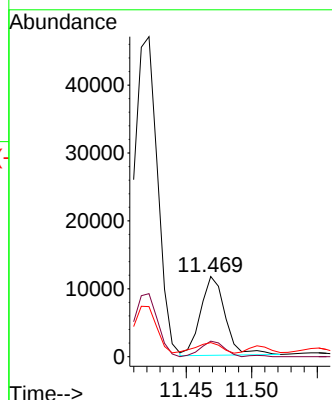
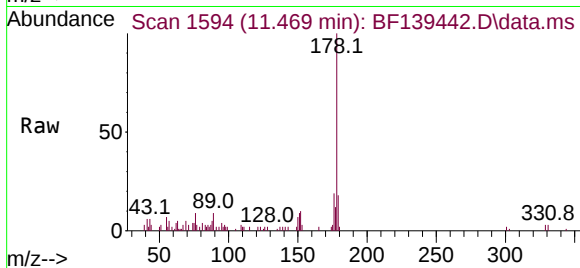
Tgt Ion:178 Resp: 15191

Ion Ratio Lower Upper

178 100

176 19.4 15.0 22.6

179 17.6 12.0 18.0



#75

Fluoranthene

Concen: 17.893 ng

RT: 12.610 min Scan# 1788

Delta R.T. -0.000 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

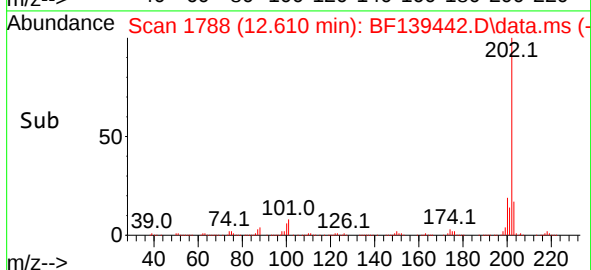
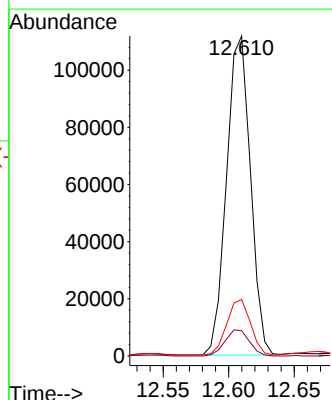
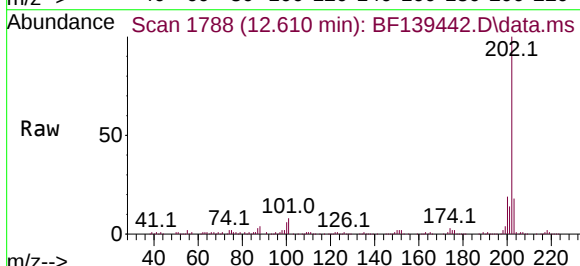
Tgt Ion:202 Resp: 141645

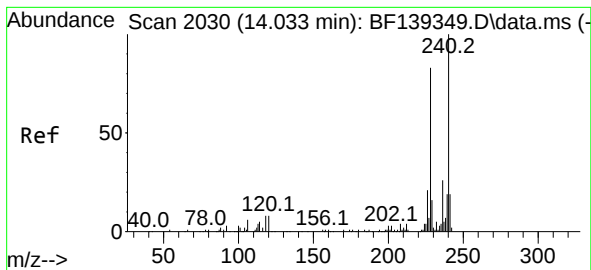
Ion Ratio Lower Upper

202 100

101 7.9 0.0 27.7

203 17.6 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2030

Delta R.T. -0.000 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

Instrument :

BNA_F

ClientSampleId :

SOIL

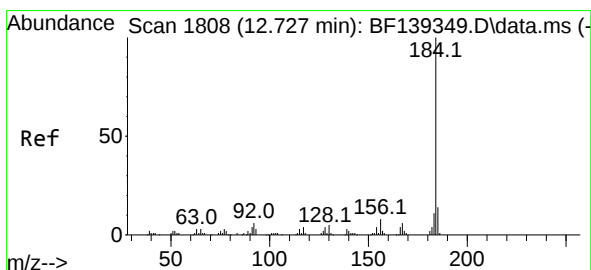
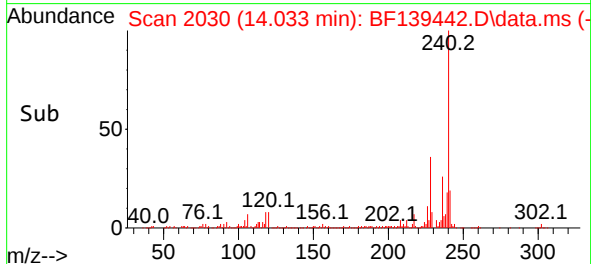
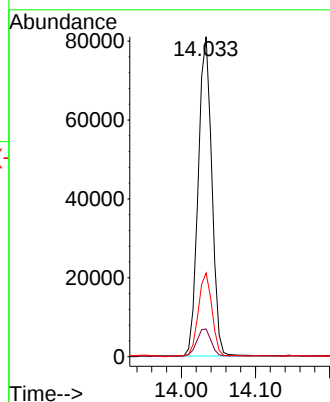
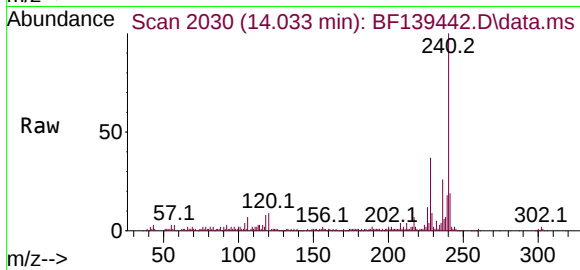
Tgt Ion:240 Resp: 103125

Ion Ratio Lower Upper

240 100

120 8.6 6.2 9.2

236 26.2 20.9 31.3



#77

Benzidine

Concen: 4.484 ng

RT: 12.980 min Scan# 1851

Delta R.T. 0.253 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

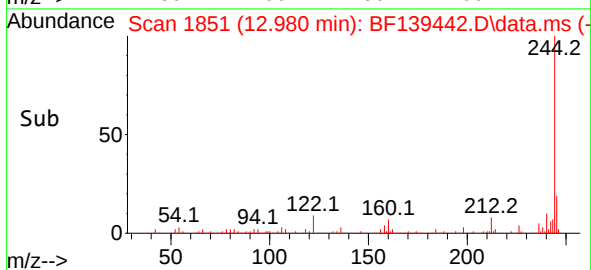
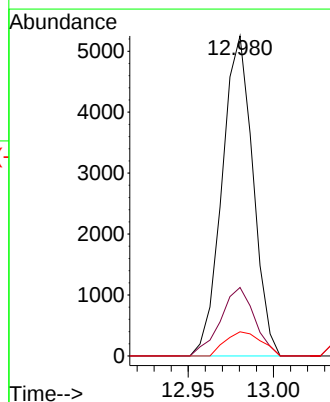
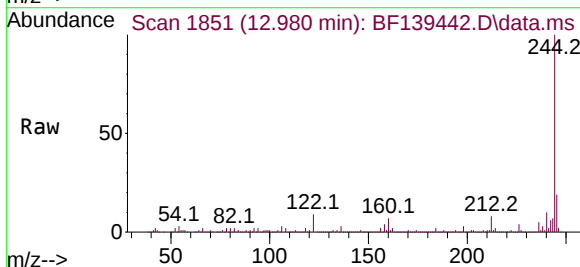
Tgt Ion:184 Resp: 6625

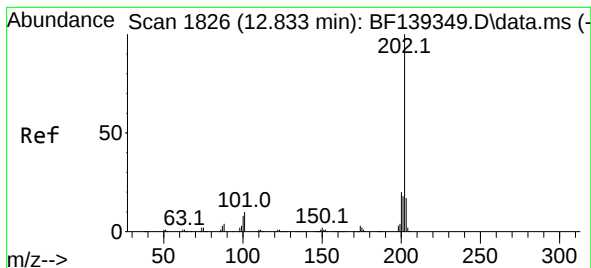
Ion Ratio Lower Upper

184 100

185 21.4 11.5 17.3#

183 7.5 8.9 13.3#





#78

Pyrene

Concen: 15.840 ng

RT: 12.839 min Scan# 1827

Delta R.T. 0.006 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

Instrument :

BNA_F

ClientSampleId :

SOIL

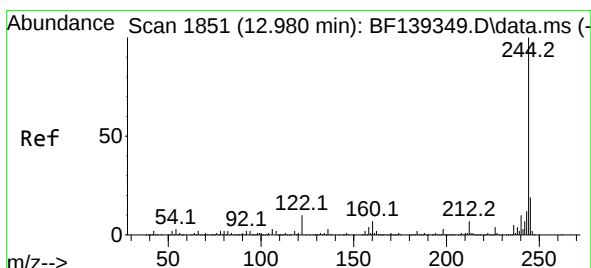
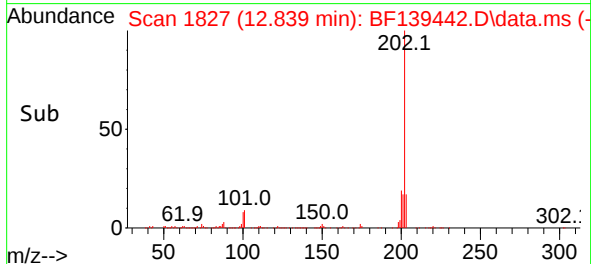
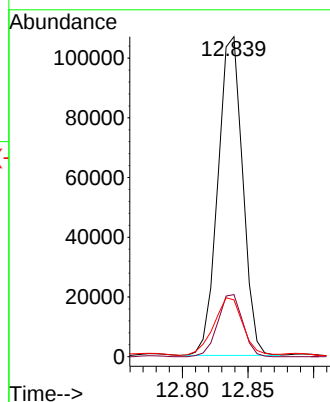
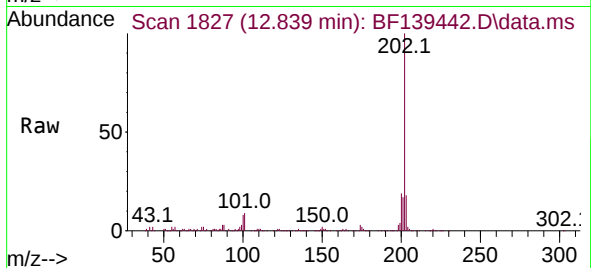
Tgt Ion:202 Resp: 140257

Ion Ratio Lower Upper

202 100

200 19.4 16.2 24.2

203 17.8 13.9 20.9



#79

Terphenyl-d14

Concen: 67.994 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.000 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

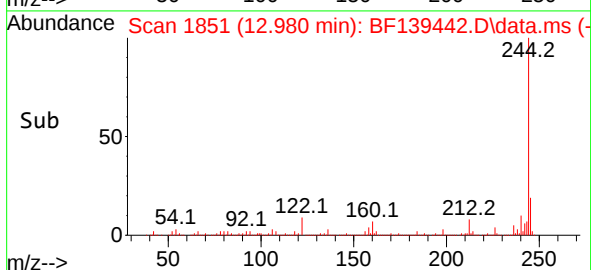
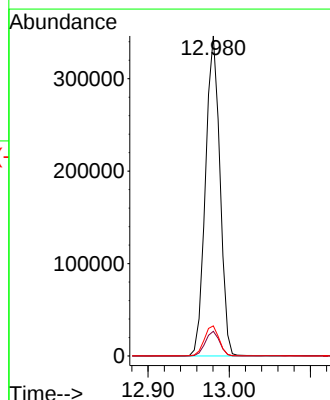
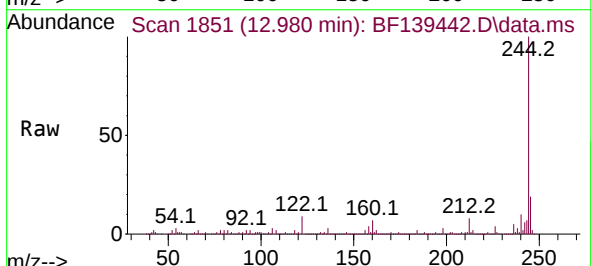
Tgt Ion:244 Resp: 427189

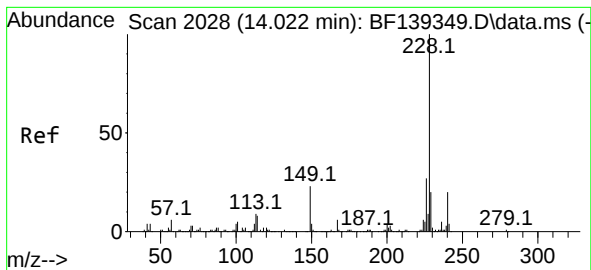
Ion Ratio Lower Upper

244 100

212 7.7 6.0 9.0

122 9.4 7.6 11.4





#81

Benzo(a)anthracene

Concen: 12.796 ng

RT: 14.022 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

Instrument :

BNA_F

ClientSampleId :

SOIL

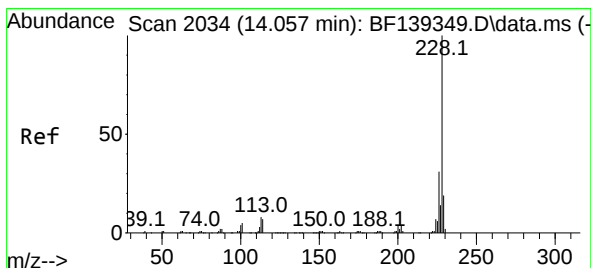
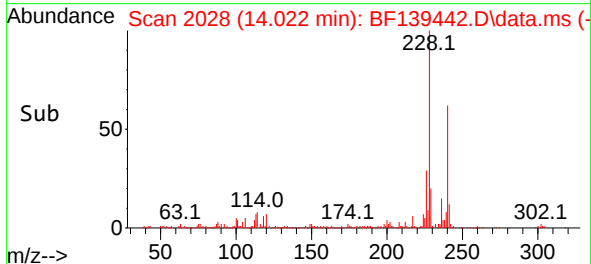
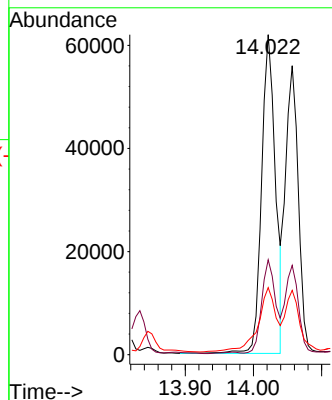
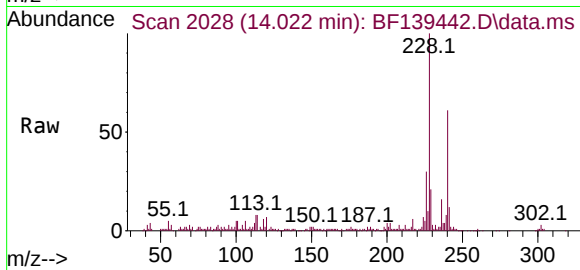
Tgt Ion:228 Resp: 87408

Ion Ratio Lower Upper

228 100

226 29.6 21.6 32.4

229 20.9 15.7 23.5



#83

Chrysene

Concen: 11.512 ng

RT: 14.057 min Scan# 2034

Delta R.T. -0.000 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

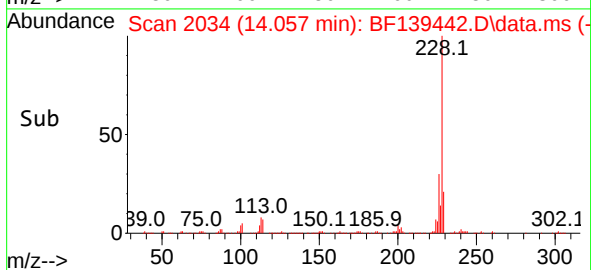
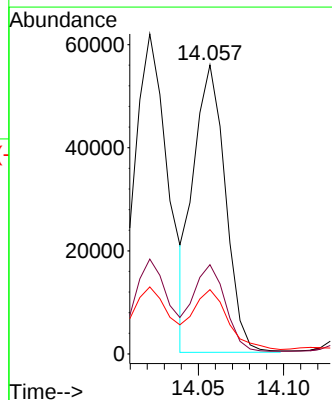
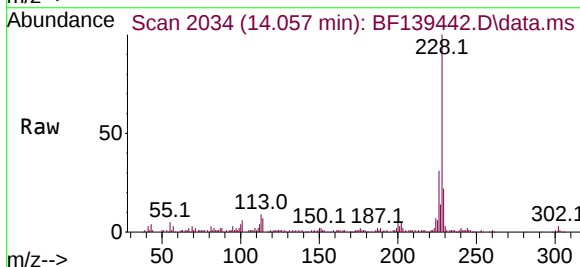
Tgt Ion:228 Resp: 72345

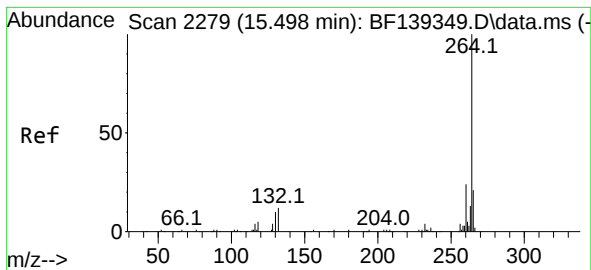
Ion Ratio Lower Upper

228 100

226 30.9 24.1 36.1

229 22.3 15.4 23.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

Instrument :

BNA_F

ClientSampleId :

SOIL

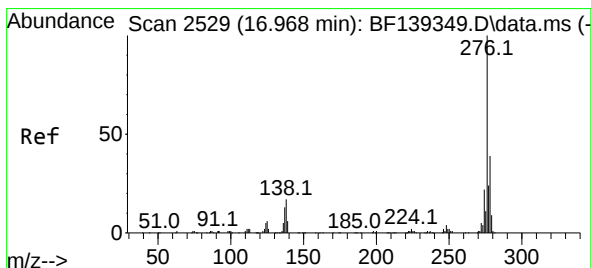
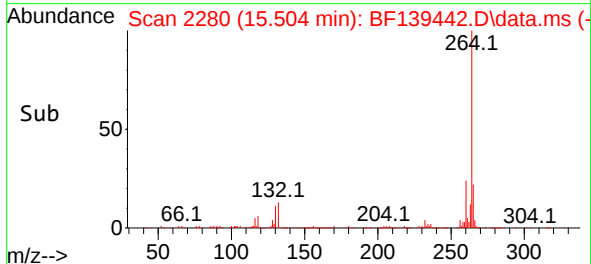
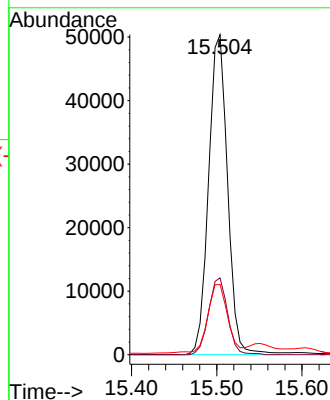
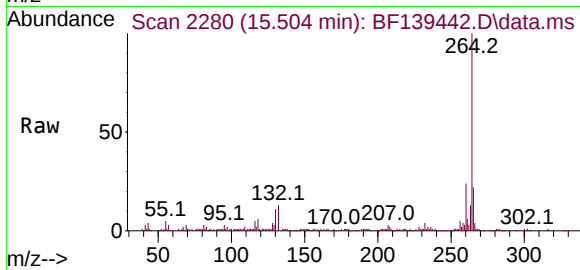
Tgt Ion:264 Resp: 77805

Ion Ratio Lower Upper

264 100

260 24.0 19.5 29.3

265 21.9 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.475 ng

RT: 16.962 min Scan# 2528

Delta R.T. -0.006 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

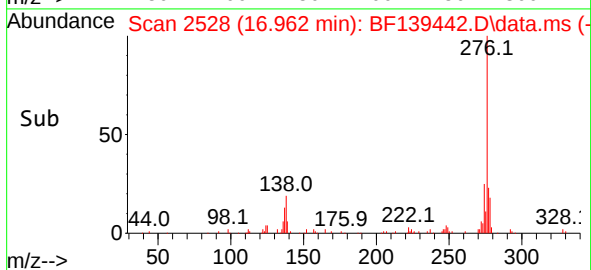
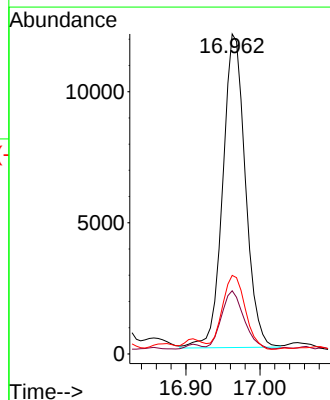
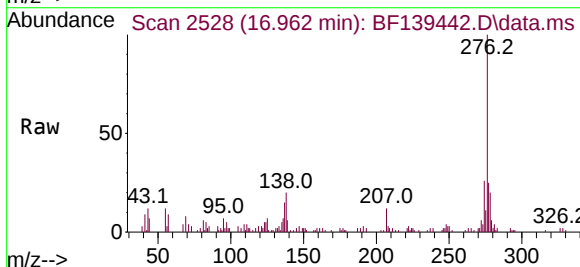
Tgt Ion:276 Resp: 25330

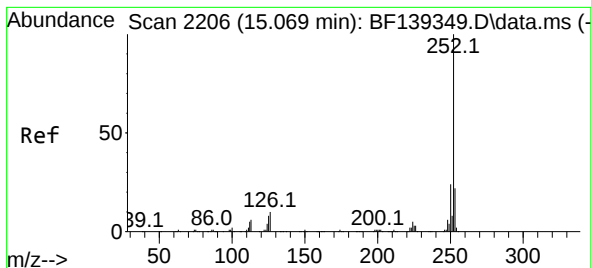
Ion Ratio Lower Upper

276 100

138 18.3 15.4 23.2

277 24.6 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 20.830 ng

RT: 15.074 min Scan# 2207

Delta R.T. 0.006 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

Instrument :

BNA_F

ClientSampleId :

SOIL

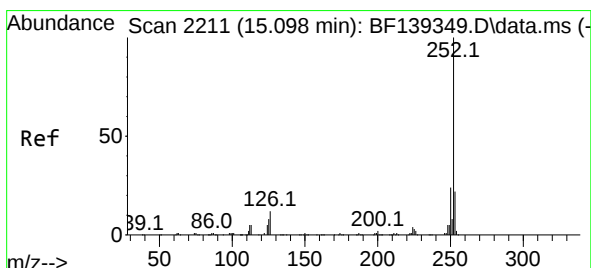
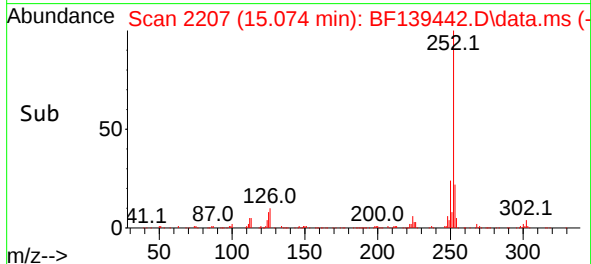
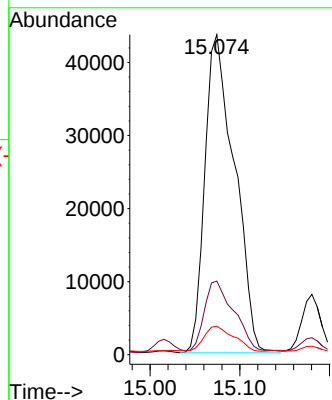
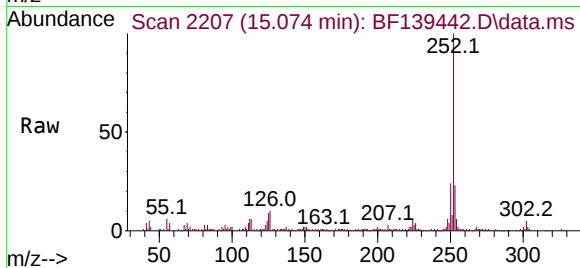
Tgt Ion:252 Resp: 99955

Ion Ratio Lower Upper

252 100

253 23.0 17.6 26.4

125 8.9 6.2 9.2



#89

Benzo(k)fluoranthene

Concen: 22.592 ng

RT: 15.074 min Scan# 2207

Delta R.T. -0.024 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

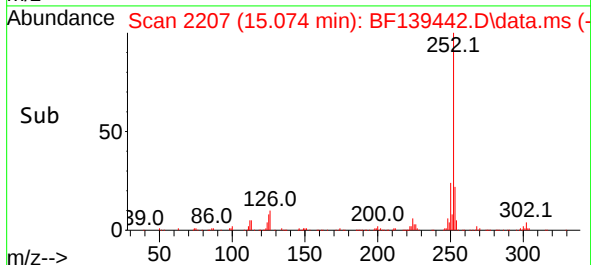
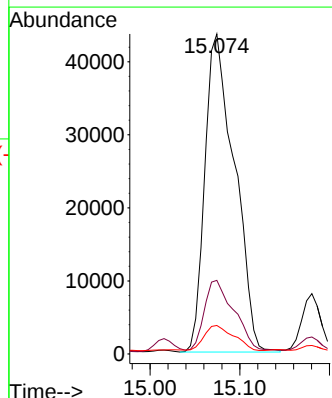
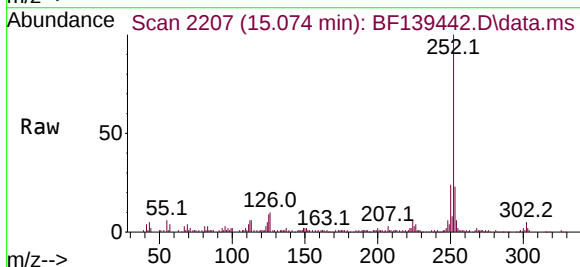
Tgt Ion:252 Resp: 99955

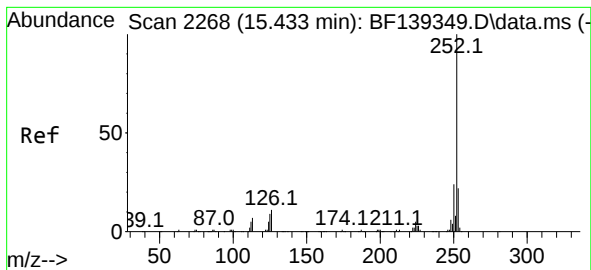
Ion Ratio Lower Upper

252 100

253 23.0 17.3 25.9

125 8.9 5.9 8.9#





#90

Benzo(a)pyrene

Concen: 13.206 ng

RT: 15.439 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

Instrument :

BNA_F

ClientSampleId :

SOIL

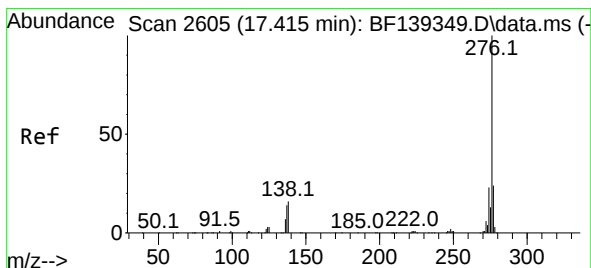
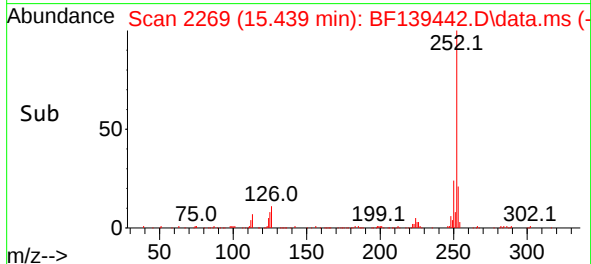
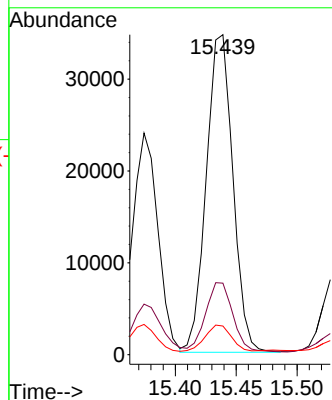
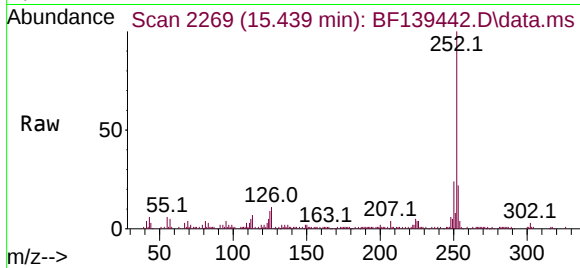
Tgt Ion:252 Resp: 52555

Ion Ratio Lower Upper

252 100

253 22.3 17.3 25.9

125 8.9 6.8 10.2



#92

Benzo(g,h,i)perylene

Concen: 6.839 ng

RT: 17.410 min Scan# 2604

Delta R.T. -0.006 min

Lab File: BF139442.D

Acq: 18 Sep 2024 23:07

Tgt Ion:276 Resp: 25888

Ion Ratio Lower Upper

276 100

277 25.2 18.9 28.3

138 19.5 13.0 19.6

