

Data Path : Z:\HPCHEM1\BNA F\Data\BF040317\
 Data File : BF094167.D
 Acq On : 4 Apr 2017 14:09
 Operator : SJ/MA
 Sample : I2510-12DL 10X
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-U4-NSWDL

Quant Time: Apr 04 14:49:06 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

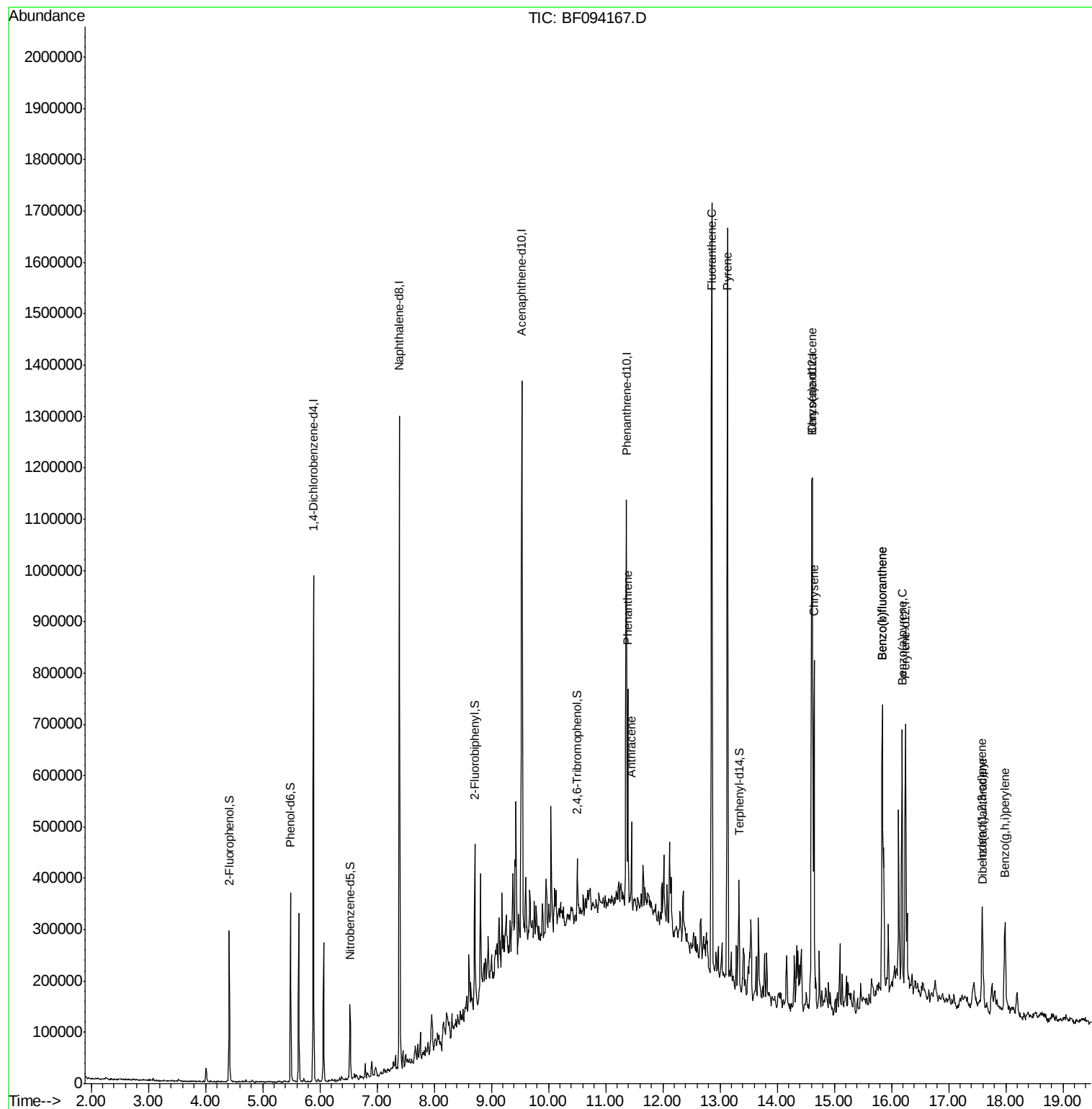
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	154540	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	584606	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	219524	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	333804	20.00	ng	-0.01
75) Chrysene-d12	14.62	240	291482	20.00	ng	-0.01
86) Perylene-d12	16.24	264	205289	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.42	112	90967	9.94	ng	-0.02
7) Phenol-d6	5.49	99	111026	9.81	ng	-0.02
23) Nitrobenzene-d5	6.53	82	46488	4.54	ng	-0.03
41) 2,4,6-Tribromophenol	10.50	330	12554	7.24	ng	-0.02
44) 2-Fluorobiphenyl	8.72	172	98808	6.87	ng	-0.02
78) Terphenyl-d14	13.33	244	60893	4.68	ng	-0.02
Target Compounds						Qvalue
70) Phenanthrene	11.39	178	174087	9.38	ng	98
71) Anthracene	11.45	178	68077	3.56	ng	98
74) Fluoranthene	12.86	202	669634	35.22	ng	99
77) Pyrene	13.13	202	654556	30.94	ng	99
80) Benzo(a)anthracene	14.60	228	312849	18.41	ng	97
82) Chrysene	14.64	228	281393	17.84	ng	97
85) Indeno(1,2,3-cd)pyrene	17.59	276	121526	8.90	ng	93
87) Benzo(b)fluoranthene	15.84	252	389148	30.93	ng	98
88) Benzo(k)fluoranthene	15.84	252	389148	31.61	ng	97
89) Benzo(a)pyrene	16.19	252	210386	18.16	ng	99
90) Dibenzo(a,h)anthracene	17.60	278	25048	2.55	ng	# 85
91) Benzo(a,h,i)perylene	17.99	276	115241	11.65	ng	100

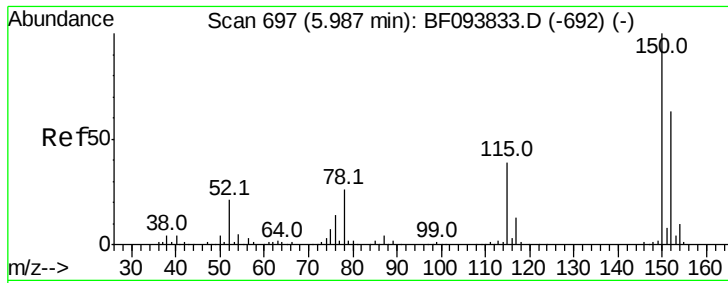
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.89 min Scan# 680

Delta R.T. -0.02 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

Instrument :

BNA_F

ClientSampleId :

E2-U4-NSWDL

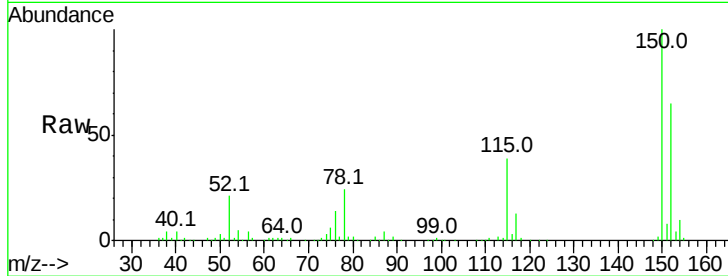
Tot Ion:152 Resp: 154540

Ion Ratio Lower Upper

152 100

150 154.5 126.2 189.2

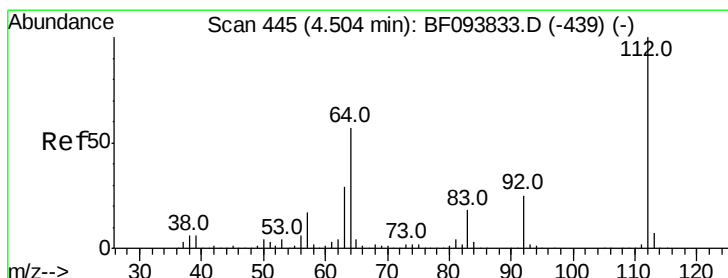
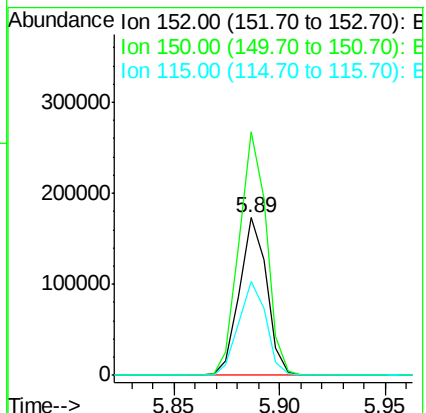
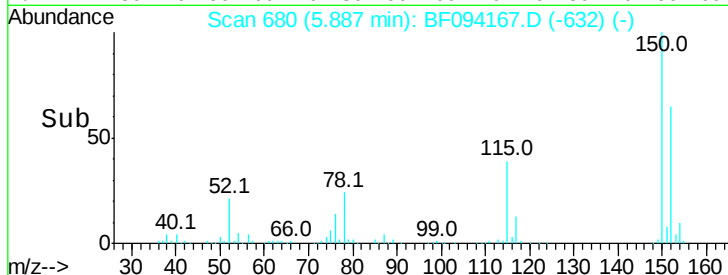
115 59.8 52.2 78.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 9.94 ng

RT: 4.42 min Scan# 430

Delta R.T. -0.02 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

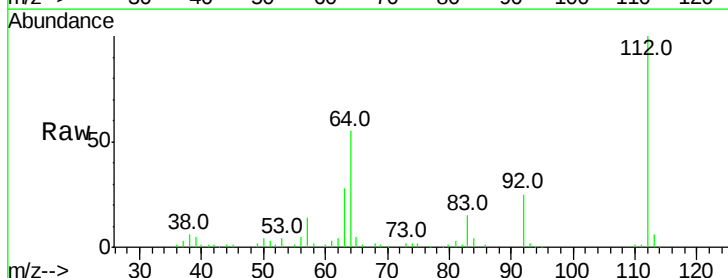
Tgt Ion:112 Resp: 90967

Ion Ratio Lower Upper

112 100

64 54.9 46.0 69.0

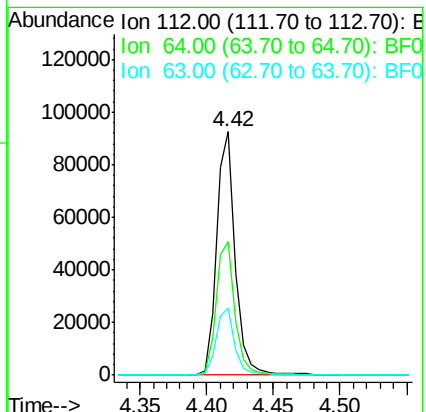
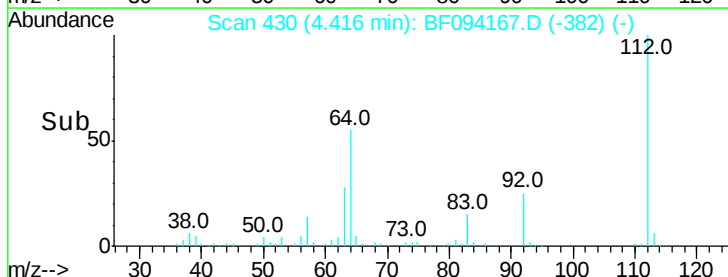
63 27.8 23.4 35.0

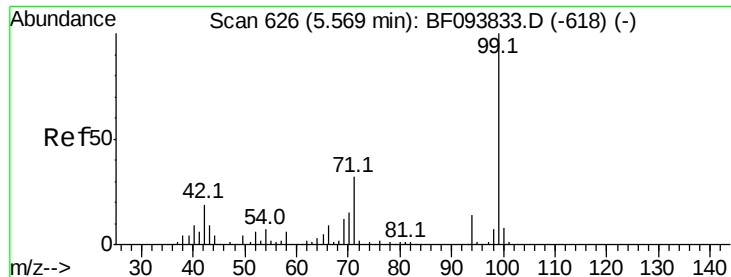


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 9.81 ng

RT: 5.49 min Scan# 612

Delta R.T. -0.02 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

Instrument :

BNA_F

ClientSampleId :

E2-U4-NSWDL

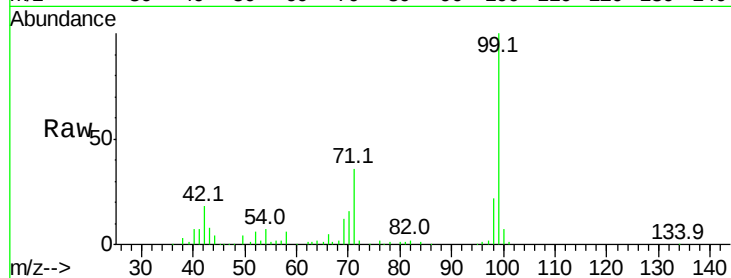
Tot Ion: 99 Resp: 111026

Ion Ratio Lower Upper

99 100

42 18.3 13.5 20.3

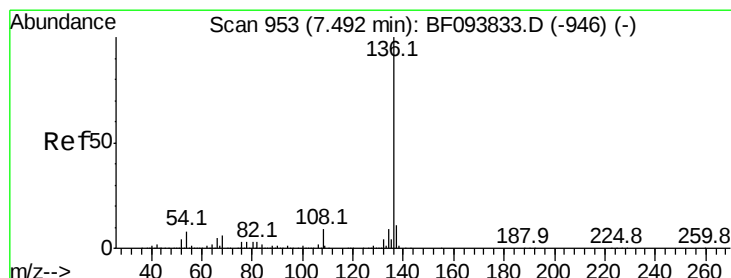
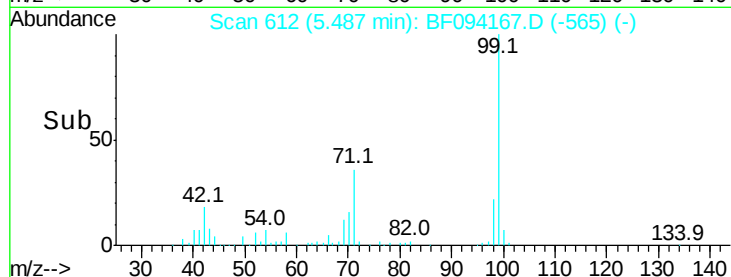
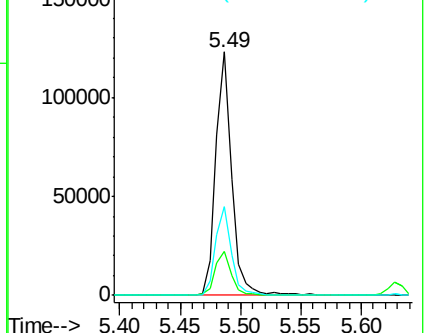
71 36.3 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.39 min Scan# 936

Delta R.T. -0.02 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

Tgt Ion: 136 Resp: 584606

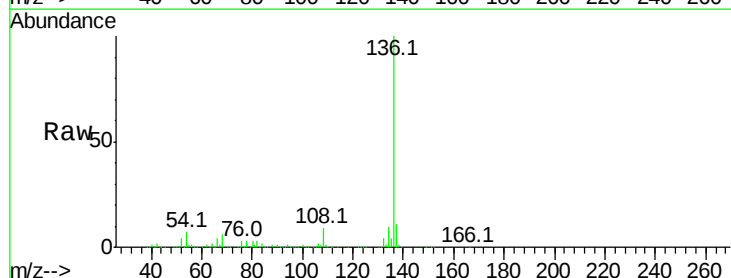
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 7.1 4.9 7.3

68 5.9 4.1 6.1

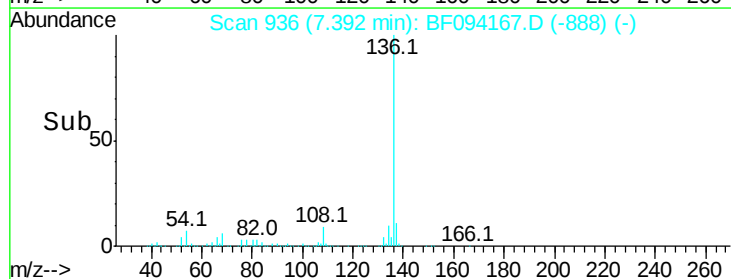
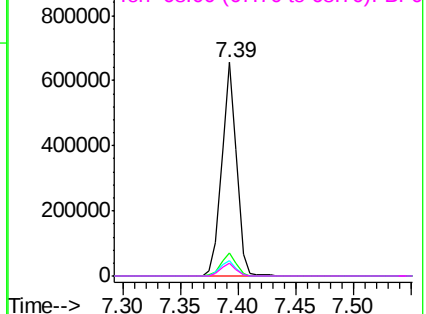


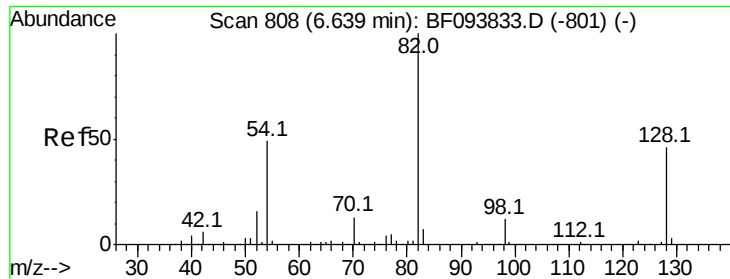
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

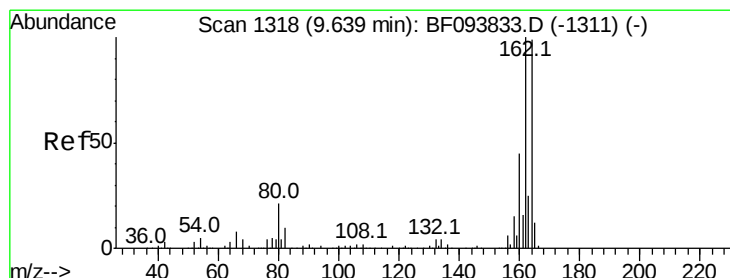
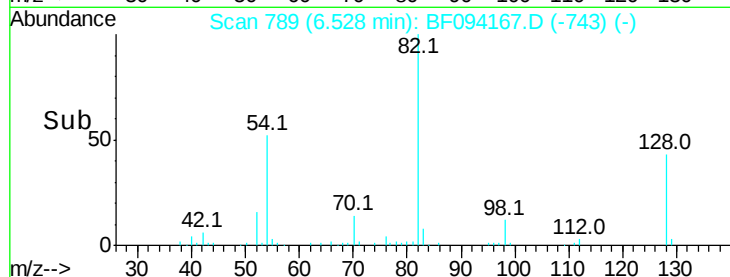
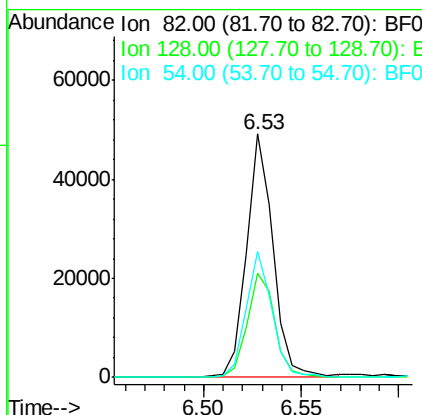
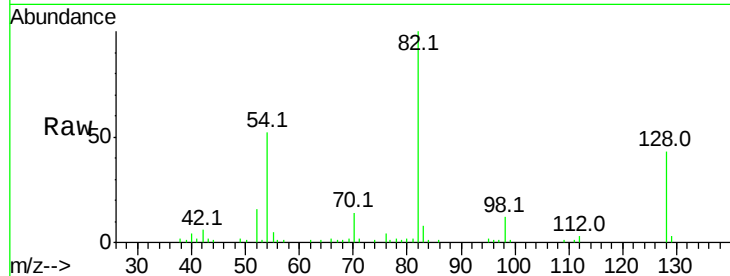




#23
 Nitrobenzene-d5
 Concen: 4.54 ng
 RT: 6.53 min Scan# 789
 Delta R.T. -0.03 min
 Lab File: BF094167.D
 Acq: 4 Apr 2017 14:09

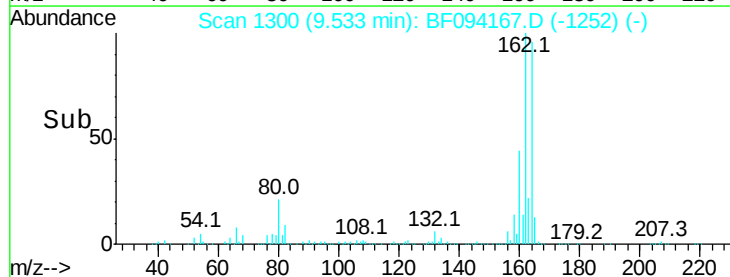
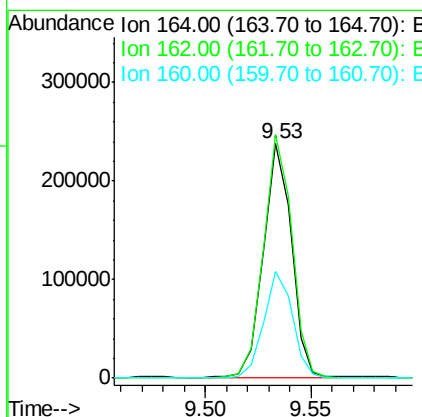
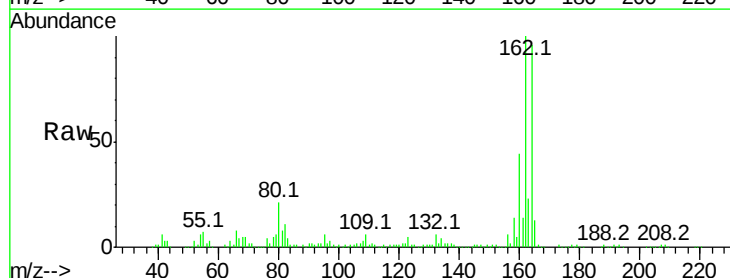
Instrument :
 BNA_F
 ClientSampleId :
 E2-U4-NSWDL

Tot Ion: 82 Resp: 46488
 Ion Ratio Lower Upper
 82 100
 128 43.0 34.0 51.0
 54 51.6 42.2 63.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 1300
 Delta R.T. -0.02 min
 Lab File: BF094167.D
 Acq: 4 Apr 2017 14:09

Tgt Ion:164 Resp: 219524
 Ion Ratio Lower Upper
 164 100
 162 103.8 82.6 123.8
 160 45.6 36.2 54.2





#41

2,4,6-Tribromophenol

Concen: 7.24 ng

RT: 10.50 min Scan# 1465

Delta R.T. -0.02 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

Instrument :

BNA_F

ClientSampleId :

E2-U4-NSWDL

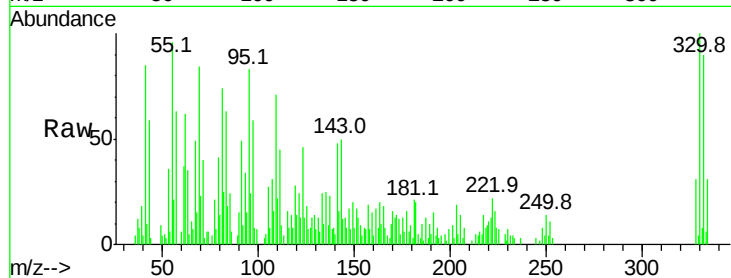
Tot Ion:330 Resp: 12554

Ion Ratio Lower Upper

330 100

332 92.5 76.6 115.0

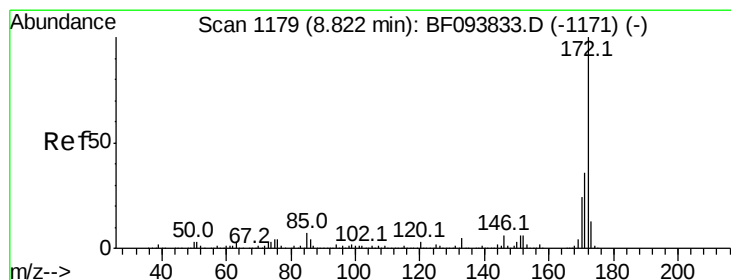
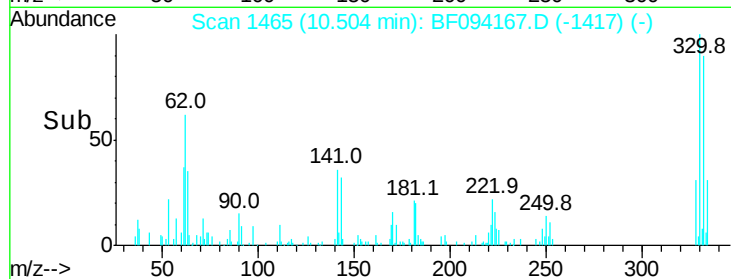
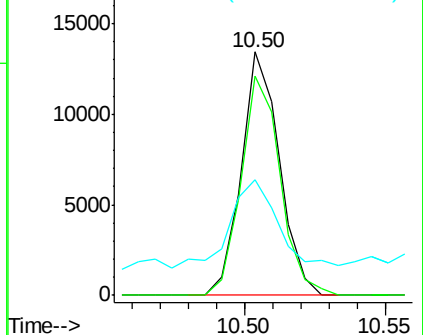
141 46.4 31.4 47.2



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 6.87 ng

RT: 8.72 min Scan# 1161

Delta R.T. -0.02 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

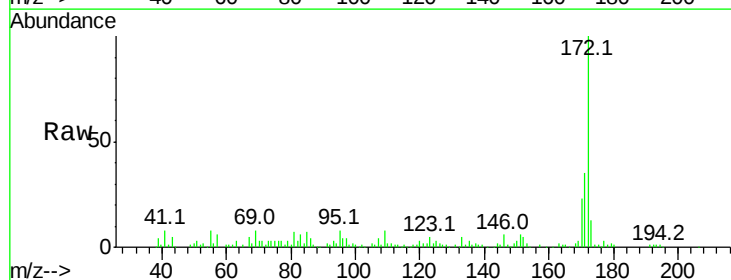
Tgt Ion:172 Resp: 98808

Ion Ratio Lower Upper

172 100

171 34.6 29.6 44.4

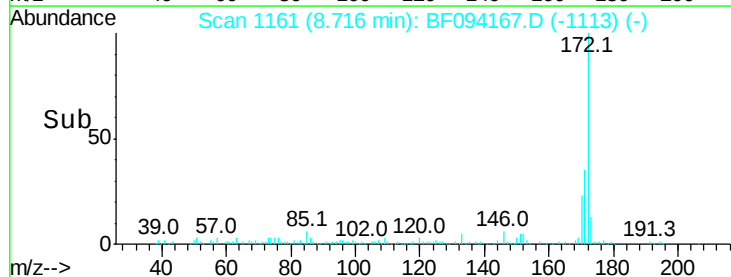
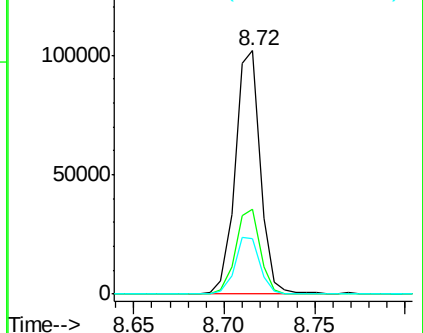
170 23.0 19.8 29.8

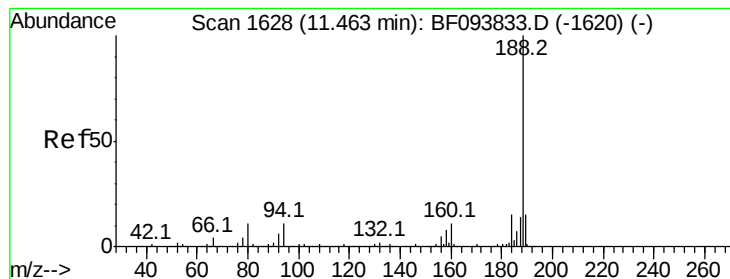


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

Instrument :

BNA_F

ClientSampleId :

E2-U4-NSWDL

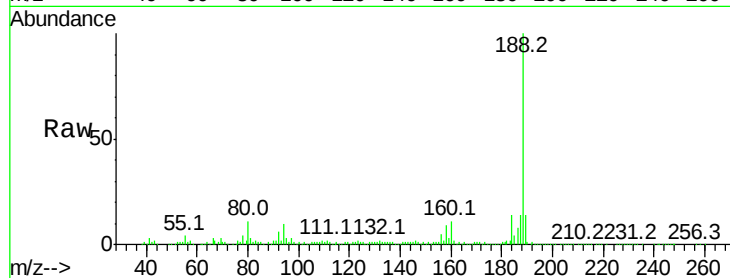
Tot Ion:188 Resp: 333804

Ion Ratio Lower Upper

188 100

94 9.7 9.4 14.2

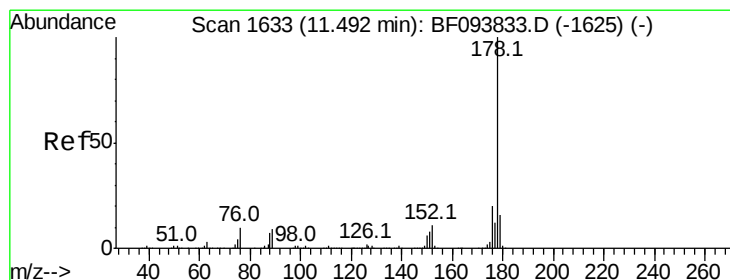
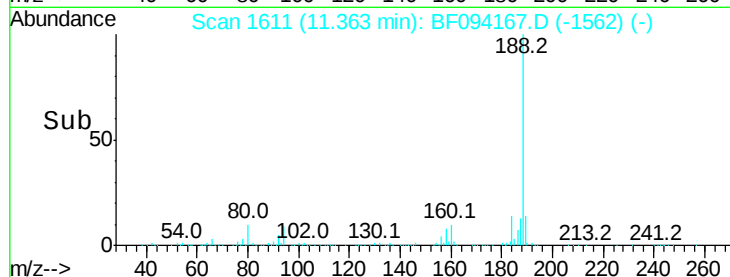
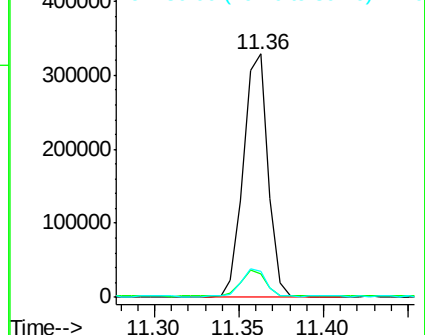
80 10.7 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 9.38 ng

RT: 11.39 min Scan# 1615

Delta R.T. -0.02 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

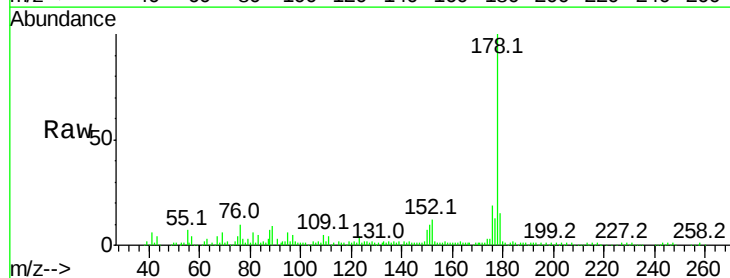
Tgt Ion:178 Resp: 174087

Ion Ratio Lower Upper

178 100

176 19.1 16.2 24.4

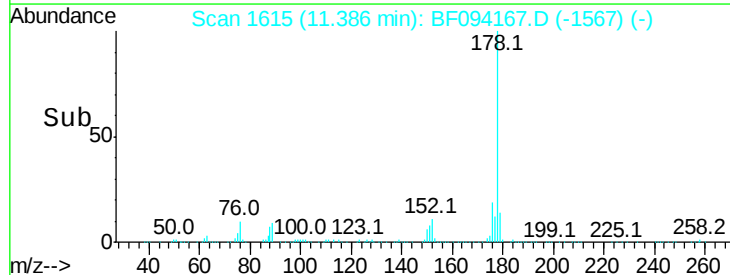
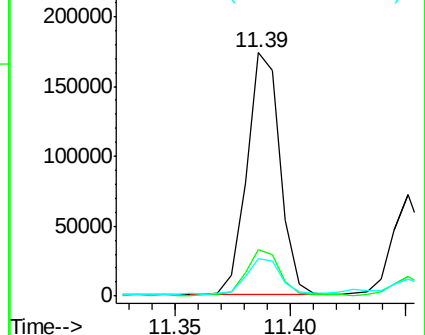
179 15.2 12.6 19.0

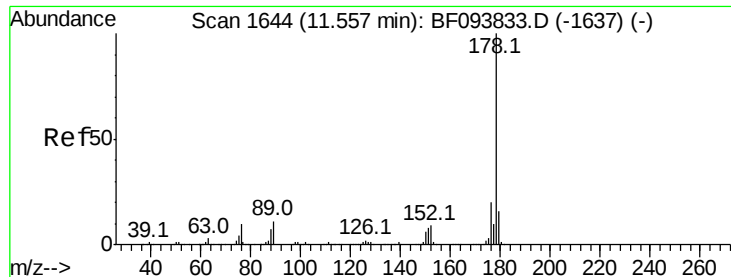


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 3.56 ng

RT: 11.45 min Scan# 1626

Delta R.T. -0.02 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

Instrument :

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E2-U4-NSWDL

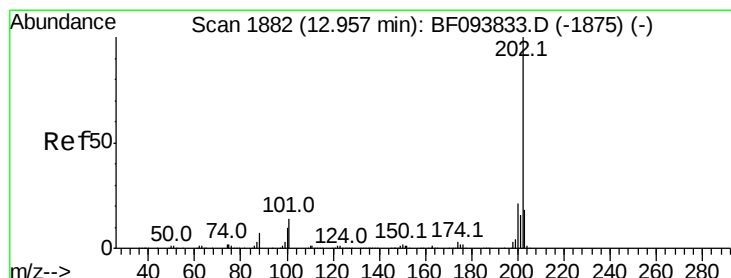
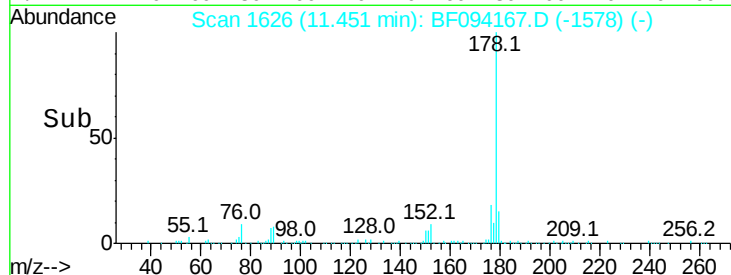
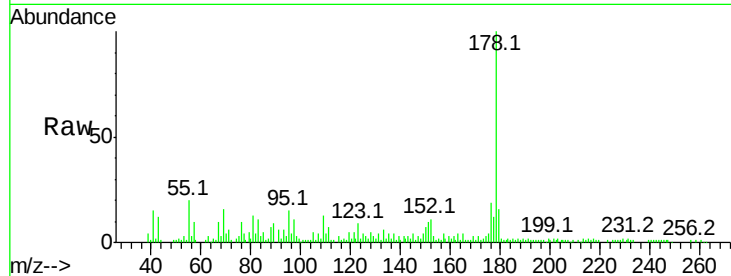
Tot Ion:178 Resp: 68077

Ion Ratio Lower Upper

178 100

176 18.8 15.8 23.8

179 16.5 12.7 19.1



#74

Fluoranthene

Concen: 35.22 ng

RT: 12.86 min Scan# 1865

Delta R.T. -0.01 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

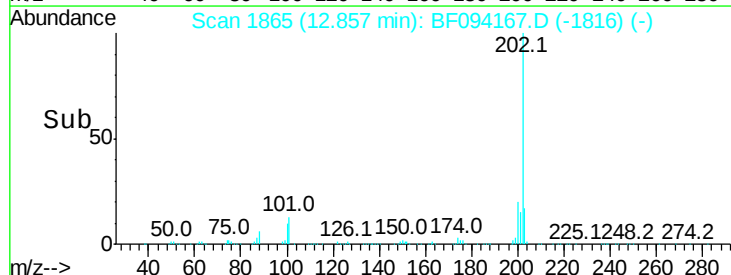
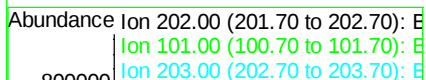
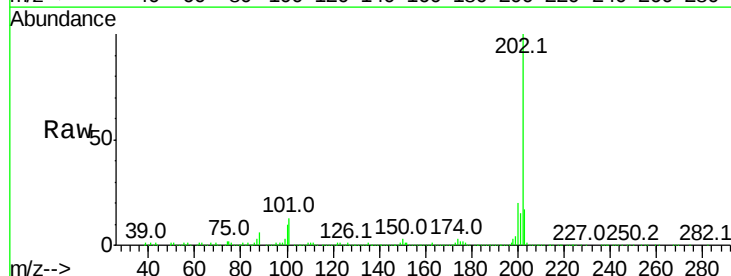
Tgt Ion:202 Resp: 669634

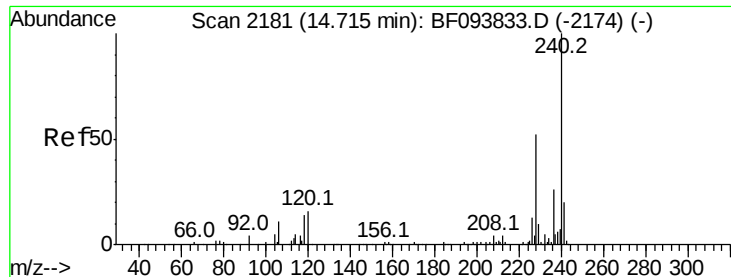
Ion Ratio Lower Upper

202 100

101 13.3 0.0 33.2

203 17.3 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.62 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

Instrument :

BNA_F

ClientSampleId :

E2-U4-NSWDL

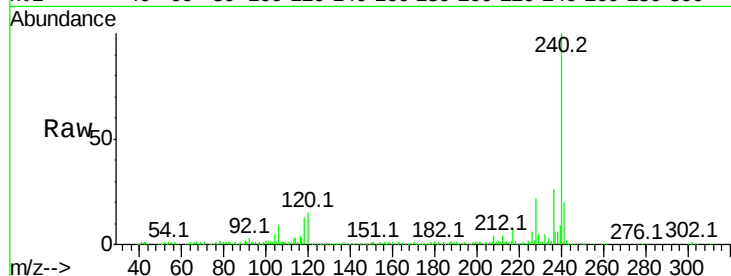
Tot Ion:240 Resp: 291482

Ion Ratio Lower Upper

240 100

120 14.8 5.8 8.8#

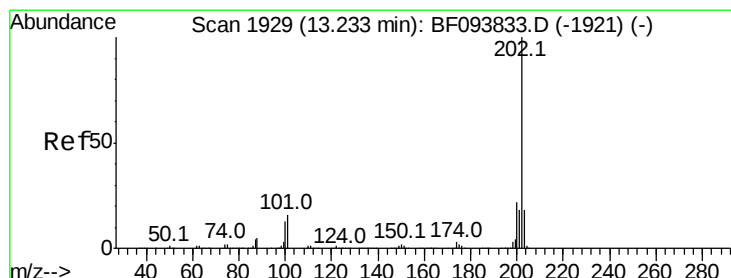
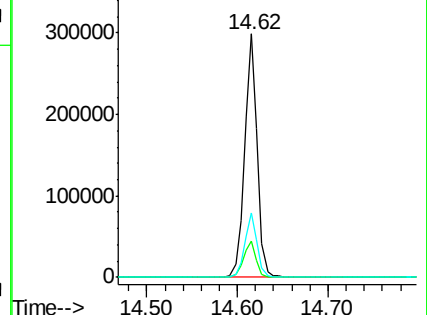
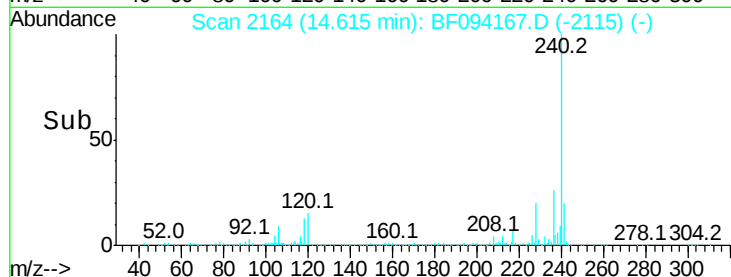
236 26.2 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 30.94 ng

RT: 13.13 min Scan# 1912

Delta R.T. -0.01 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

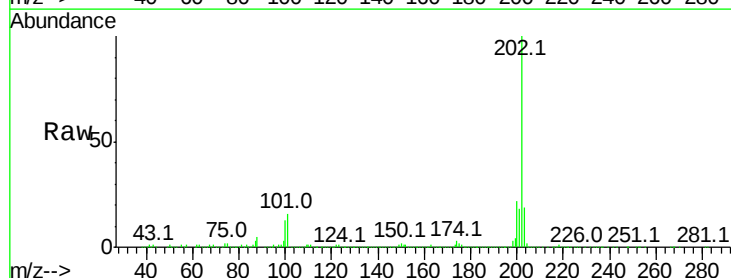
Tgt Ion:202 Resp: 654556

Ion Ratio Lower Upper

202 100

200 21.7 17.6 26.4

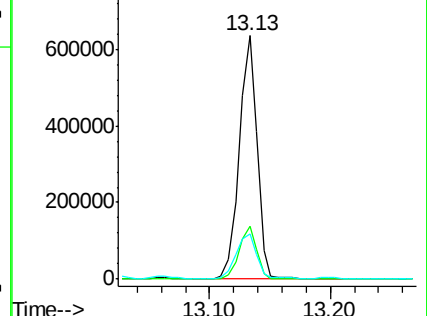
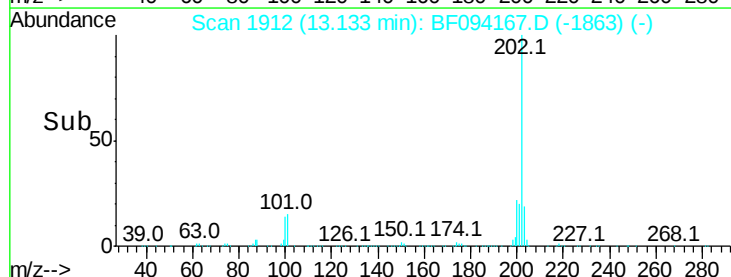
203 18.6 14.4 21.6

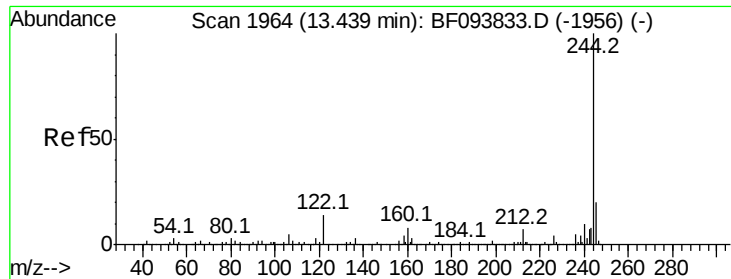


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 4.68 ng

RT: 13.33 min Scan# 1946

Delta R.T. -0.02 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

Instrument :

BNA_F

ClientSampleId :

E2-U4-NSWDL

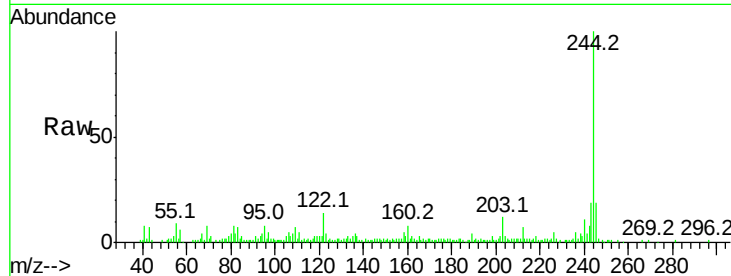
Tot Ion:244 Resp: 60893

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

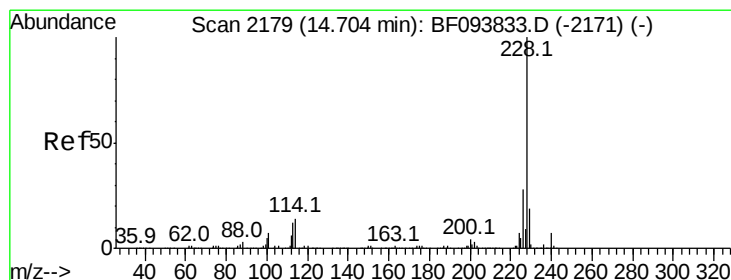
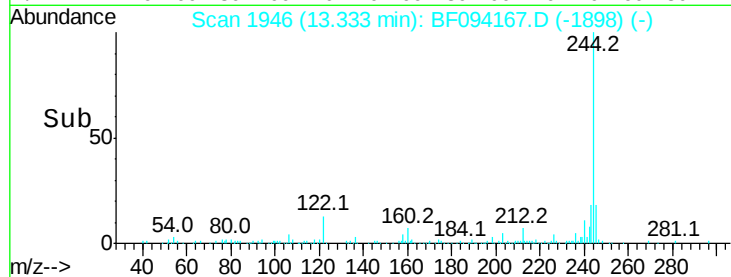
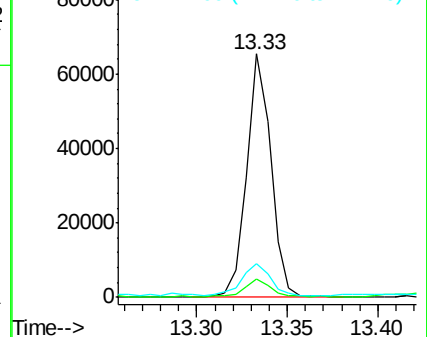
122 14.1 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 18.41 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

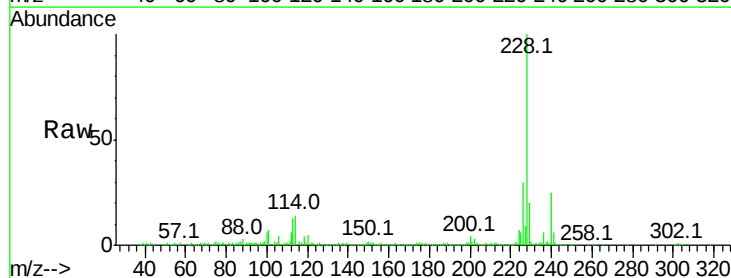
Tgt Ion:228 Resp: 312849

Ion Ratio Lower Upper

228 100

226 30.3 22.6 33.8

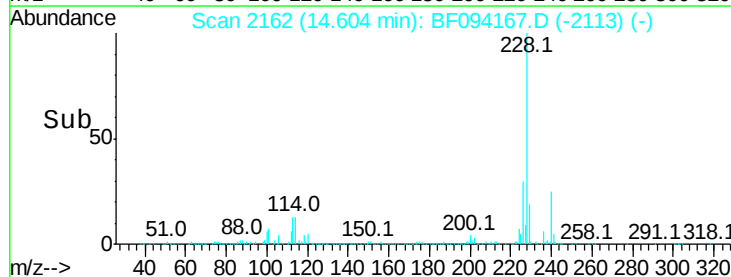
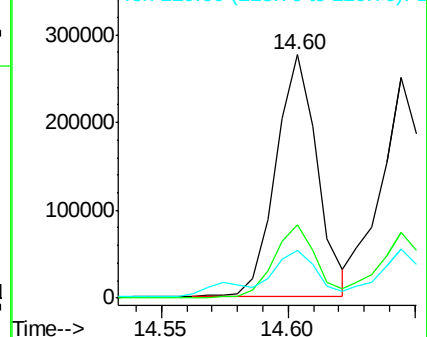
229 19.7 16.3 24.5

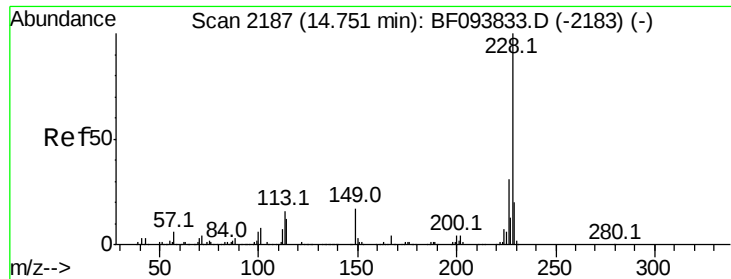


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 17.84 ng

RT: 14.64 min Scan# 2169

Delta R.T. -0.02 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

Instrument :

BNA_F

ClientSampleId :

E2-U4-NSWDL

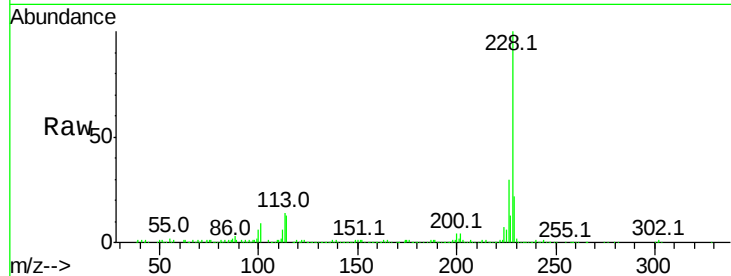
Tot Ion:228 Resp: 281393

Ion Ratio Lower Upper

228 100

226 30.0 24.9 37.3

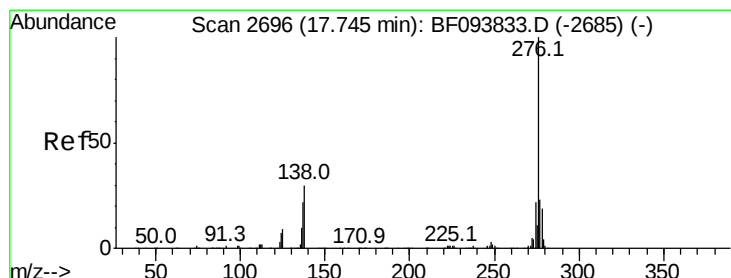
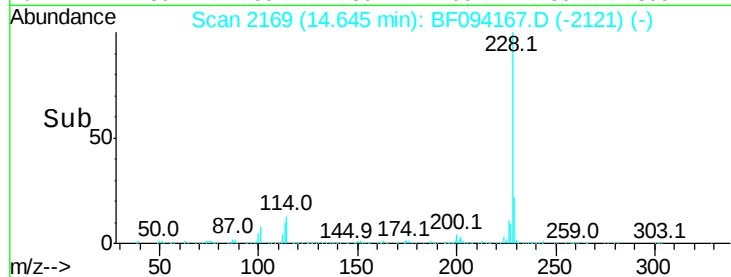
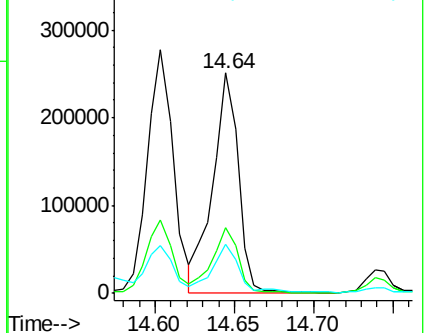
229 22.2 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.90 ng

RT: 17.59 min Scan# 2669

Delta R.T. -0.02 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

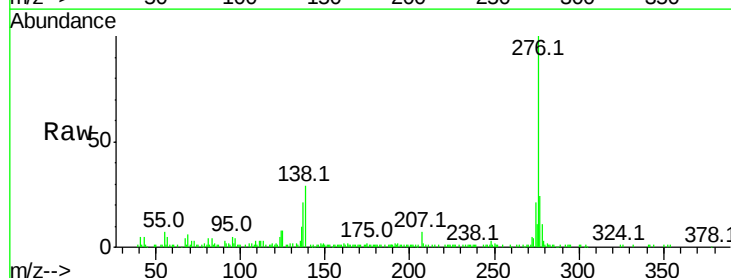
Tgt Ion:276 Resp: 121526

Ion Ratio Lower Upper

276 100

138 29.6 27.8 41.6

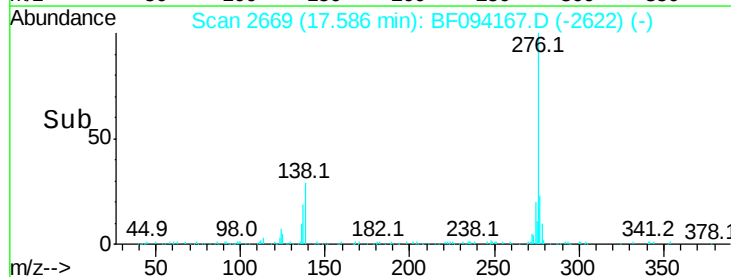
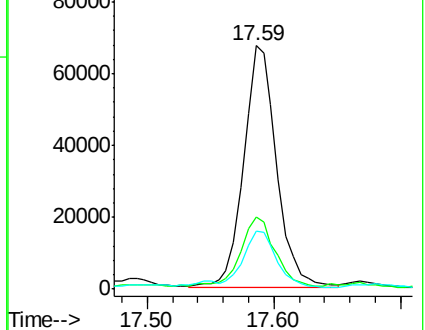
277 23.0 20.2 30.4

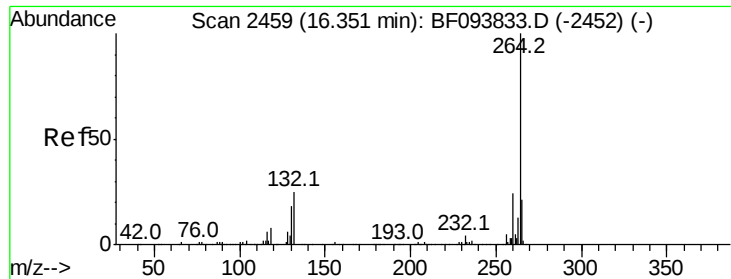


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

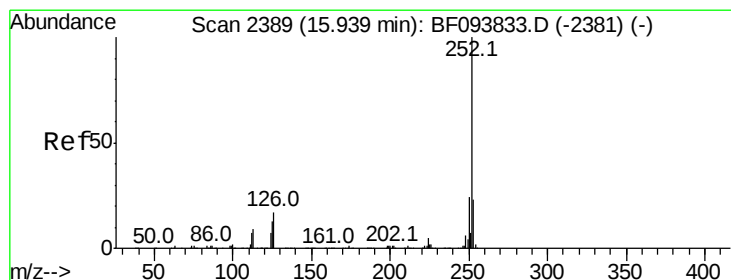
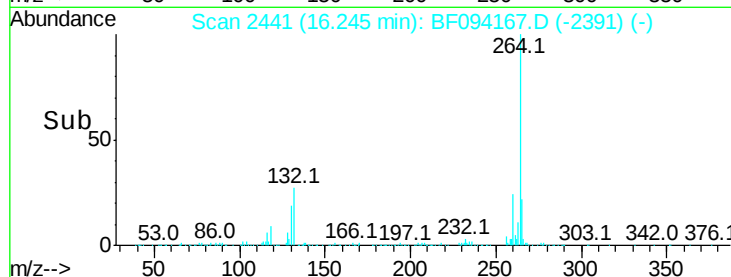
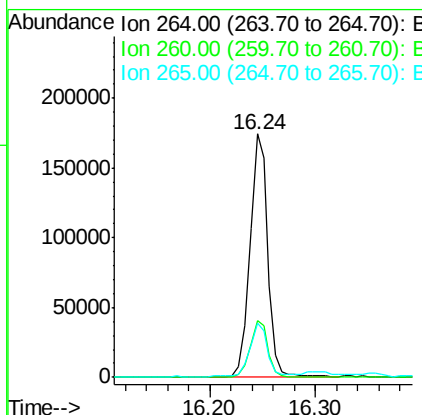
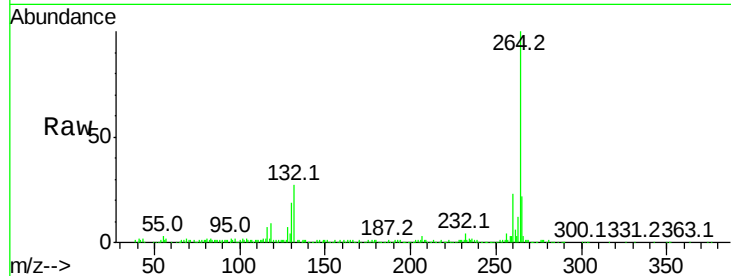




#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.24 min Scan# 2441
Delta R.T. -0.01 min
Lab File: BF094167.D
Acq: 4 Apr 2017 14:09

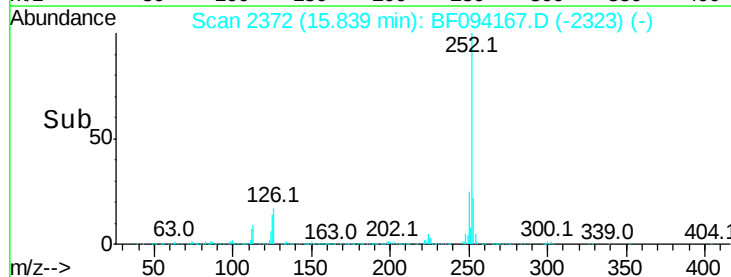
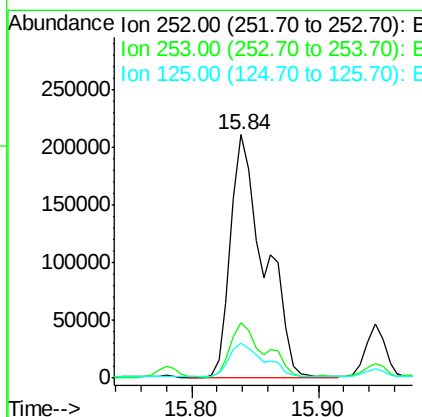
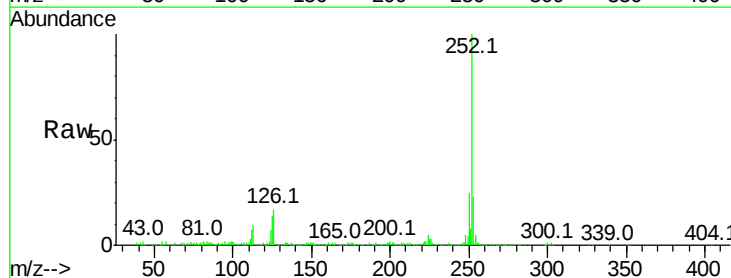
Instrument :
BNA_F
ClientSampleId :
E2-U4-NSWDL

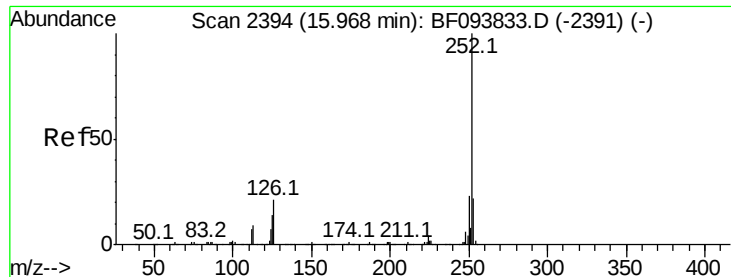
Tot Ion:264 Resp: 205289
Ion Ratio Lower Upper
264 100
260 23.5 19.5 29.3
265 22.3 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 30.93 ng
RT: 15.84 min Scan# 2372
Delta R.T. -0.01 min
Lab File: BF094167.D
Acq: 4 Apr 2017 14:09

Tgt Ion:252 Resp: 389148
Ion Ratio Lower Upper
252 100
253 22.5 18.1 27.1
125 14.3 9.8 14.8

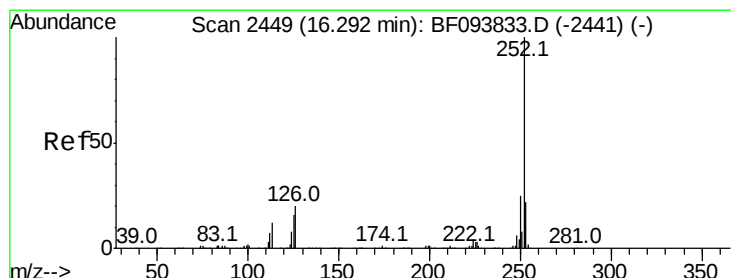
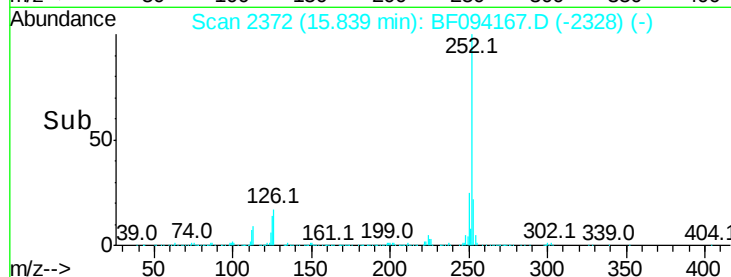
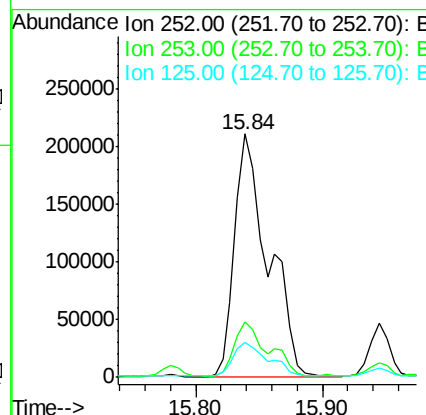
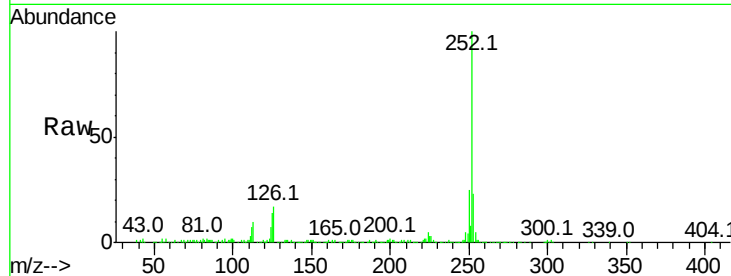




#88
Benzo(k)fluoranthene
Concen: 31.61 ng
RT: 15.84 min Scan# 2372
Delta R.T. -0.04 min
Lab File: BF094167.D
Acq: 4 Apr 2017 14:09

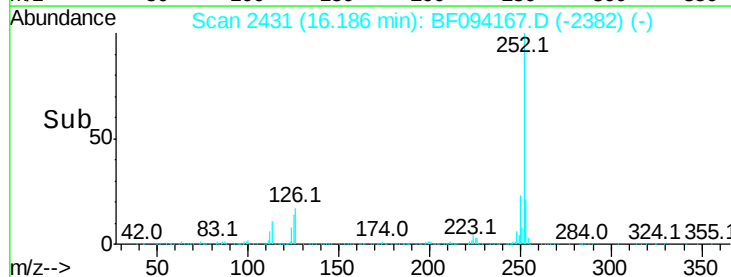
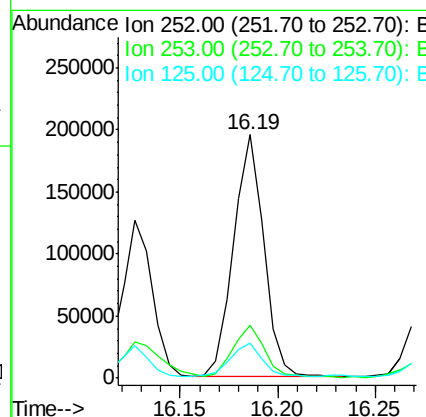
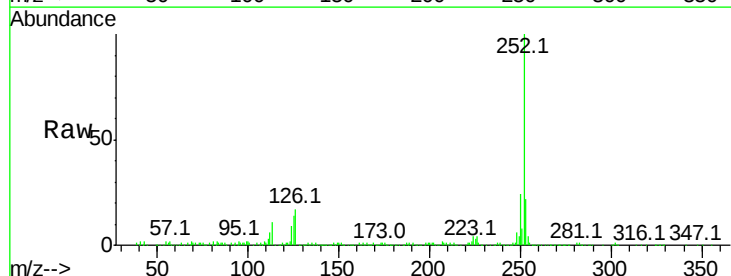
Instrument :
BNA_F
ClientSampleId :
E2-U4-NSWDL

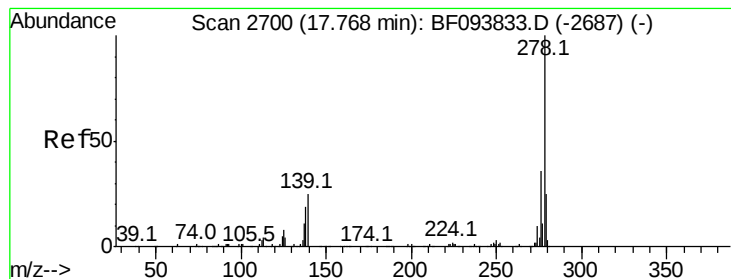
Tot Ion:252 Resp: 389148
Ion Ratio Lower Upper
252 100
253 22.5 18.4 27.6
125 14.3 13.1 19.7



#89
Benzo(a)pyrene
Concen: 18.16 ng
RT: 16.19 min Scan# 2431
Delta R.T. -0.01 min
Lab File: BF094167.D
Acq: 4 Apr 2017 14:09

Tgt Ion:252 Resp: 210386
Ion Ratio Lower Upper
252 100
253 21.8 17.5 26.3
125 14.2 11.0 16.4





#90

Dibenzo(a,h)anthracene

Concen: 2.55 ng

RT: 17.60 min Scan# 2672

Delta R.T. -0.03 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

Instrument :

BNA_F

ClientSampleId :

E2-U4-NSWDL

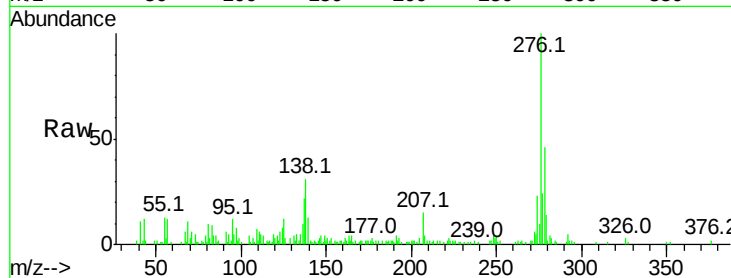
Tot Ion:278 Resp: 25048

Ion Ratio Lower Upper

278 100

139 27.8 16.6 24.8#

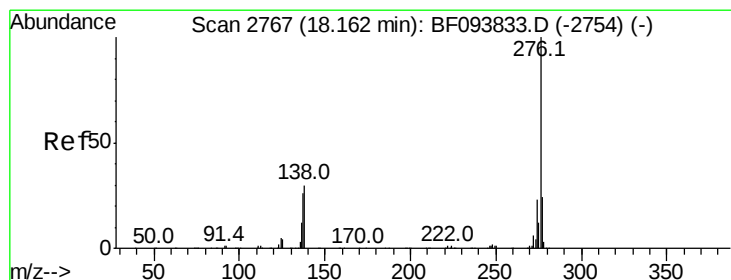
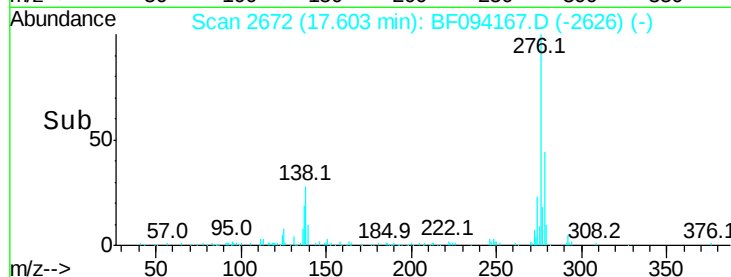
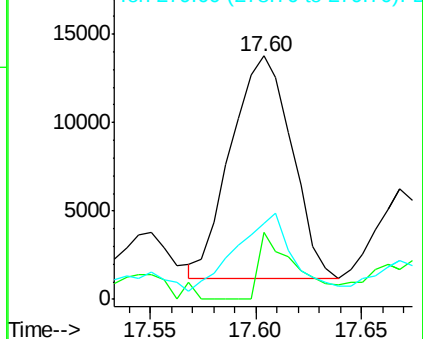
279 31.2 19.3 28.9#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 11.65 ng

RT: 17.99 min Scan# 2737

Delta R.T. -0.02 min

Lab File: BF094167.D

Acq: 4 Apr 2017 14:09

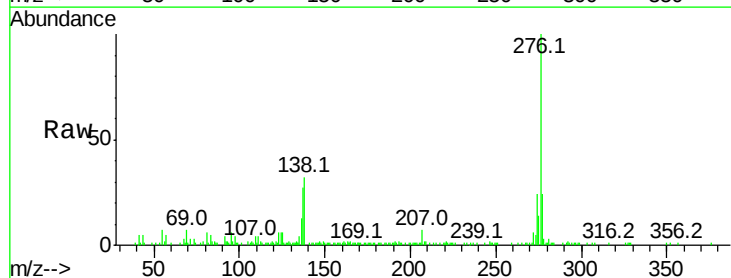
Tgt Ion:276 Resp: 115241

Ion Ratio Lower Upper

276 100

277 23.7 18.6 28.0

138 31.7 25.4 38.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

