

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051617\
 Data File : BF095175.D
 Acq On : 17 May 2017 1:20
 Operator : SJ/MA
 Sample : I3153-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DS-1-4

Quant Time: May 17 08:11:45 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

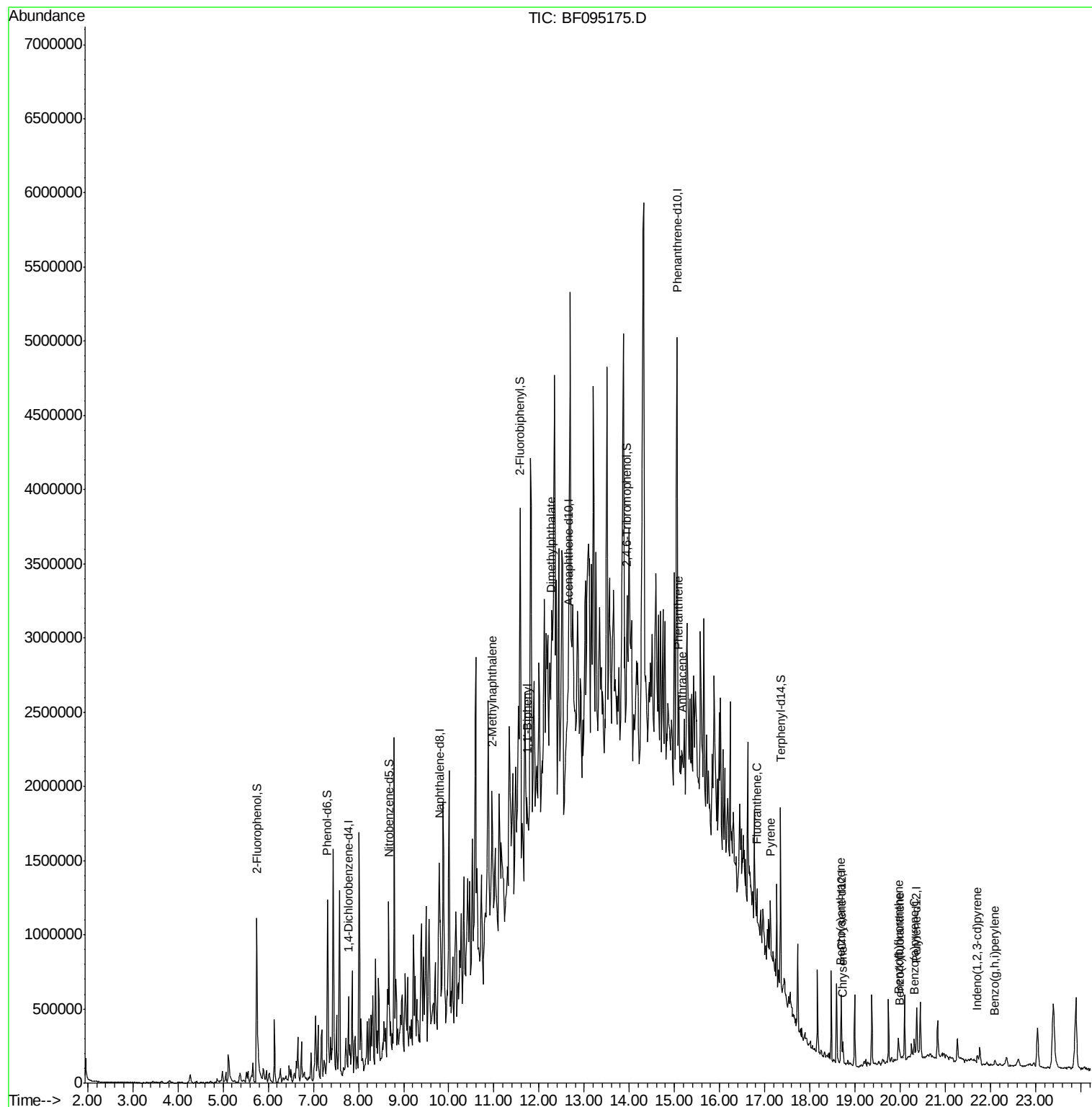
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.78	152	90837	20.00	ng	0.05
21) Naphthalene-d8	9.80	136	336818	20.00	ng	0.04
38) Acenaphthene-d10	12.65	164	114763	20.00	ng	0.06
63) Phenanthrene-d10	15.07	188	140892	20.00	ng	0.08
75) Chrysene-d12	18.69	240	170121	20.00	ng	0.04
86) Perylene-d12	20.37	264	144060	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.74	112	670549	123.07	ng	0.06
7) Phenol-d6	7.32	99	739139	113.07	ng	0.04
23) Nitrobenzene-d5	8.67	82	427935	80.12	ng	0.04
41) 2,4,6-Tribromophenol	13.96	330	99364	105.72	ng	0.08
44) 2-Fluorobiphenyl	11.57	172	624385	78.31	ng	0.04
78) Terphenyl-d14	17.35	244	466522	60.40	ng	0.04
Target Compounds						Qvalue
37) 2-Methylnaphthalene	10.96	142	296634	26.70	ng	99
45) 1,1'-Biphenyl	11.73	154	70182	7.26	ng	93
49) Dimethylphthalate	12.27	163	83304	8.84	ng	# 91
70) Phenanthrene	15.10	178	240557	29.72	ng	# 96
71) Anthracene	15.18	178	51495	6.23	ng	# 11
74) Fluoranthene	16.82	202	143600	17.29	ng	99
77) Pyrene	17.12	202	158372	12.45	ng	97
80) Benzo(a)anthracene	18.68	228	47152m	4.76	ng	
82) Chrysene	18.73	228	67423	7.04	ng	97
85) Indeno(1,2,3-cd)pyrene	21.71	276	26609	3.42	ng	# 91
87) Benzo(b)fluoranthene	19.97	252	63720m	7.16	ng	
88) Benzo(k)fluoranthene	19.99	252	27577m	3.21	ng	
89) Benzo(a)pyrene	20.31	252	39406	4.80	ng	# 91
91) Benzo(a,h,i)perylene	22.10	276	25017	3.76	ng	94

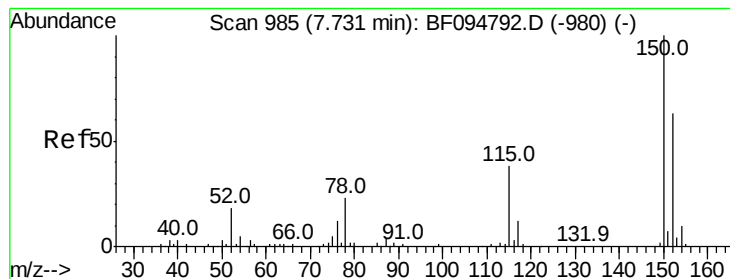
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.78 min Scan# 993

Delta R.T. 0.05 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

Instrument :

BNA_F

ClientSampleId :

DS-1-4

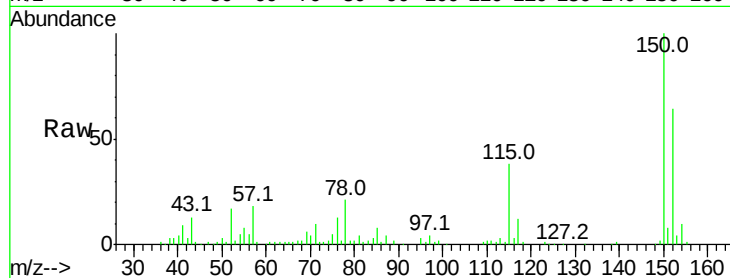
Tot Ion:152 Resp: 90837

Ion Ratio Lower Upper

152 100

150 155.9 126.2 189.2

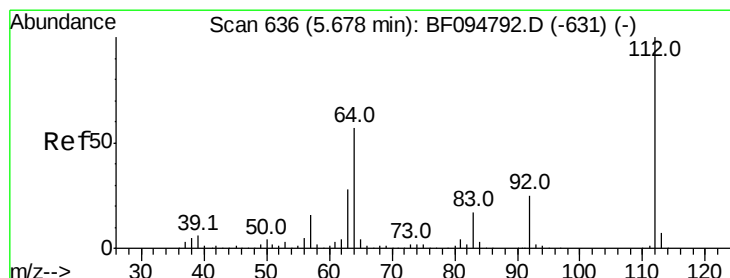
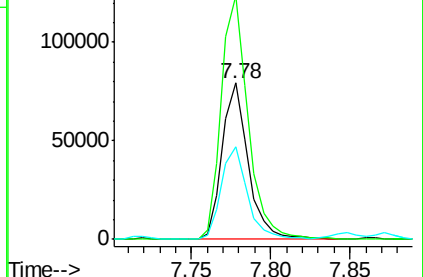
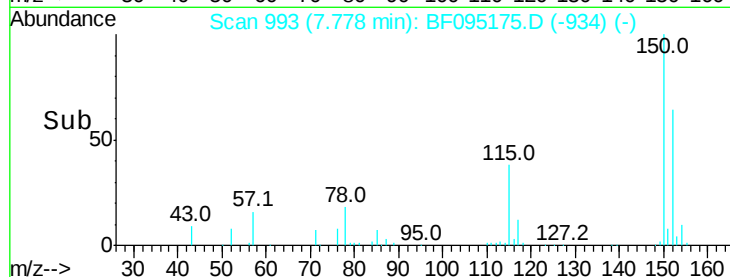
115 59.4 52.2 78.2



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: 123.07 ng

RT: 5.74 min Scan# 647

Delta R.T. 0.06 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

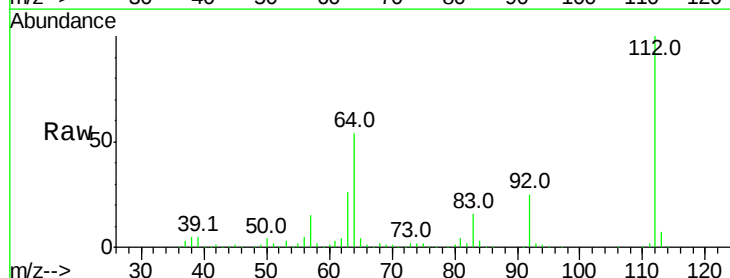
Tgt Ion:112 Resp: 670549

Ion Ratio Lower Upper

112 100

64 53.8 46.0 69.0

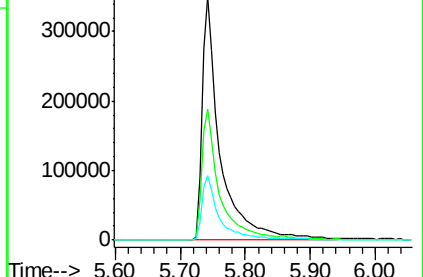
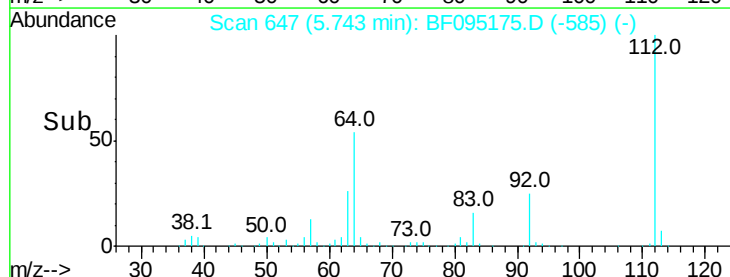
63 26.4 23.4 35.0

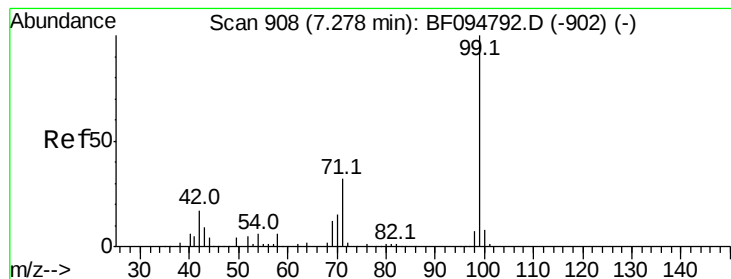


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 113.07 ng

RT: 7.32 min Scan# 915

Delta R.T. 0.04 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

Instrument :

BNA_F

ClientSampleId :

DS-1-4

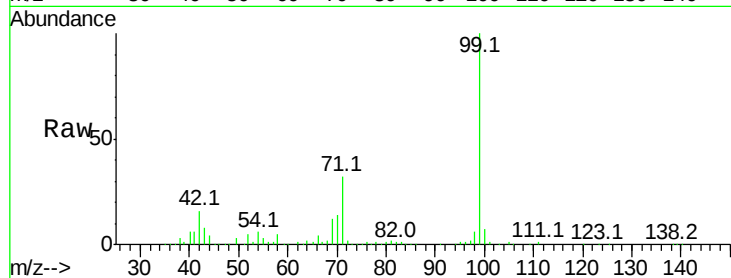
Tot Ion: 99 Resp: 739139

Ion Ratio Lower Upper

99 100

42 15.6 13.5 20.3

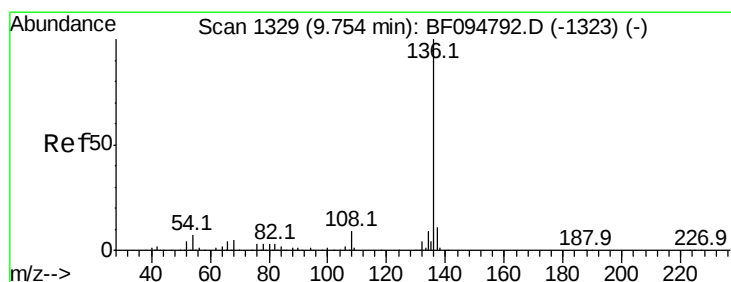
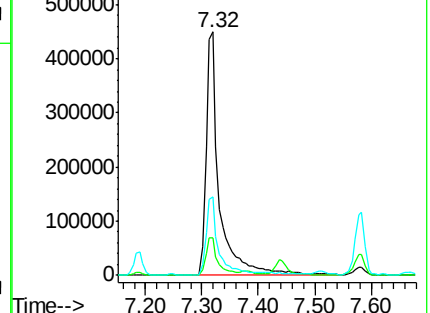
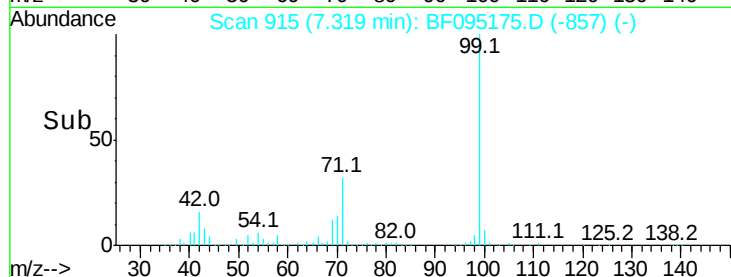
71 32.3 24.5 36.7



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: 9.80 min Scan# 1336

Delta R.T. 0.04 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

Tgt Ion: 136 Resp: 336818

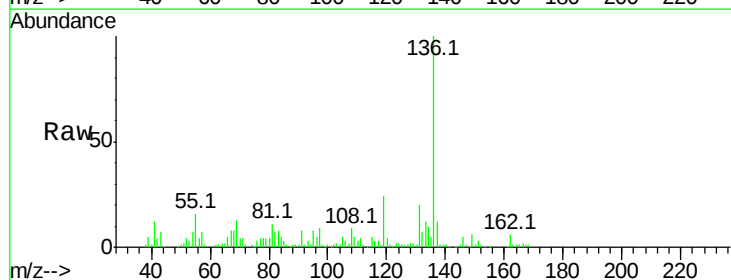
Ion Ratio Lower Upper

136 100

137 11.6 8.5 12.7

54 7.3 4.9 7.3#

68 7.7 4.1 6.1#

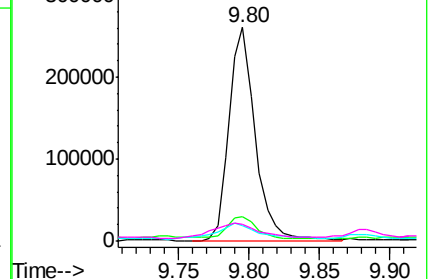
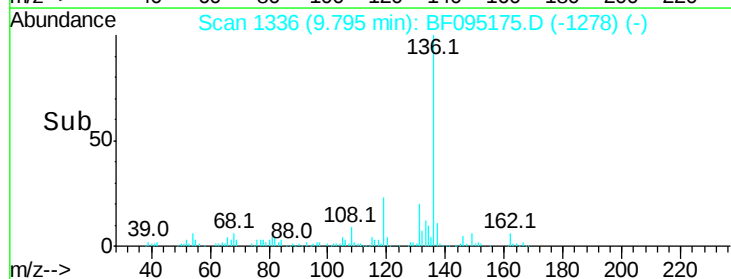


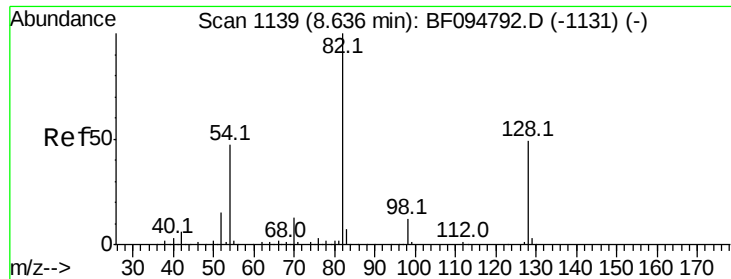
Abundance Ion 136.00 (135.70 to 136.70): E

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

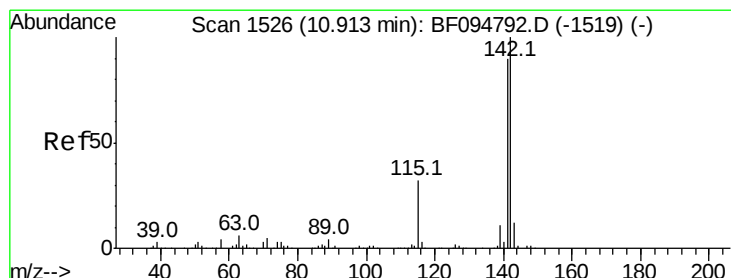
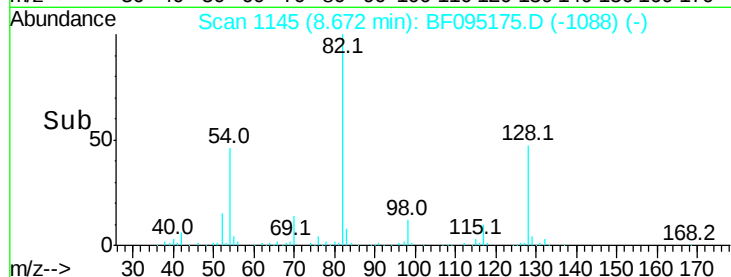
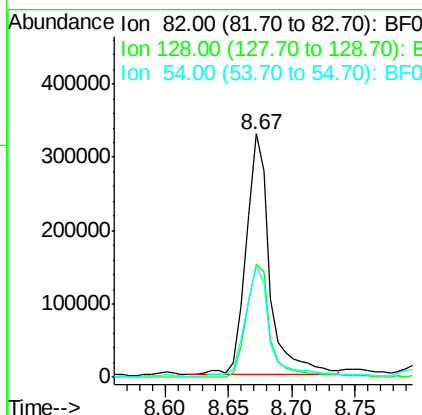
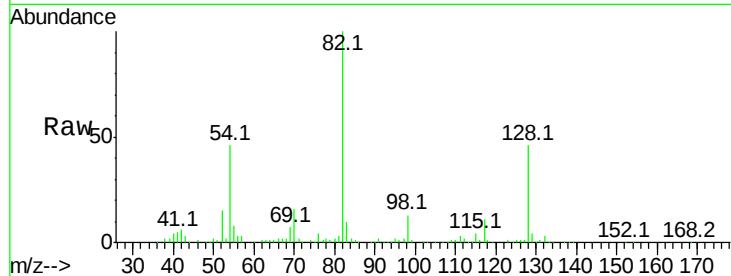




#23
 Nitrobenzene-d5
 Concen: 80.12 ng
 RT: 8.67 min Scan# 1145
 Delta R.T. 0.04 min
 Lab File: BF095175.D
 Acq: 17 May 2017 1:20

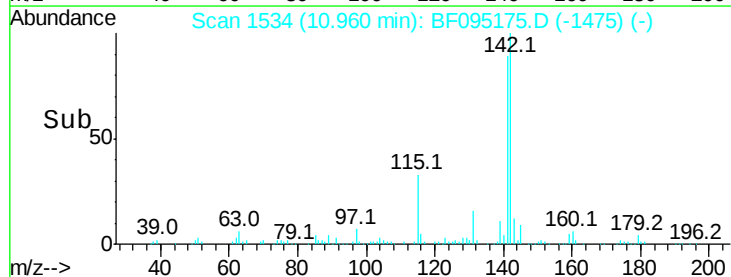
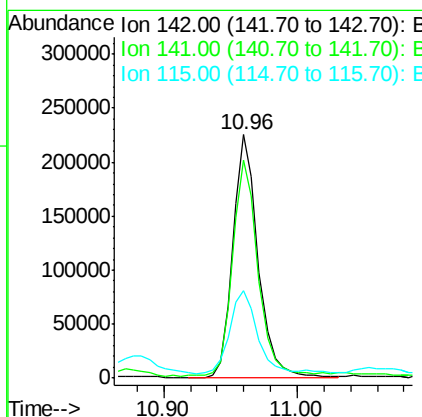
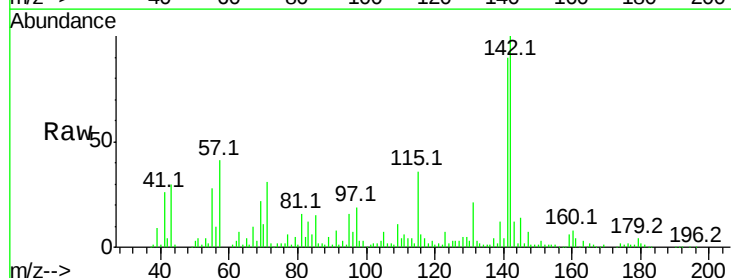
Instrument :
 BNA_F
 ClientSampled :
 DS-1-4

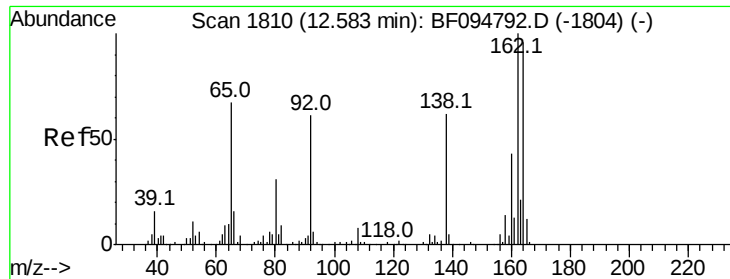
Tot Ion	82	Resp	427935
Ion Ratio	100	Lower	Upper
128	46.3	34.0	51.0
54	45.8	42.2	63.2



#37
 2-Methylnaphthalene
 Concen: 26.70 ng
 RT: 10.96 min Scan# 1534
 Delta R.T. 0.05 min
 Lab File: BF095175.D
 Acq: 17 May 2017 1:20

Tgt Ion	142	Resp	296634
Ion Ratio	100	Lower	Upper
141	89.7	71.3	106.9
115	36.0	27.1	40.7





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.65 min Scan# 1821

Delta R.T. 0.06 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

Instrument :

BNA_F

ClientSampleId :

DS-1-4

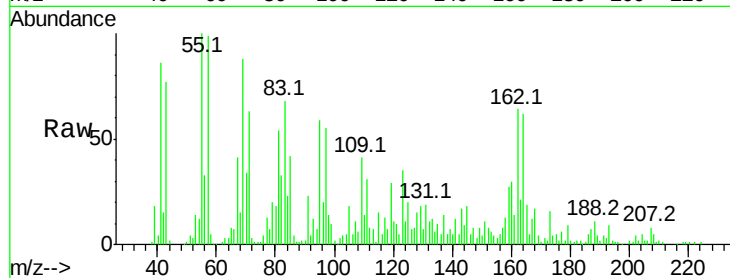
Tot Ion:164 Resp: 114763

Ion Ratio Lower Upper

164 100

162 103.6 82.6 123.8

160 49.3 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

100000

80000

60000

40000

20000

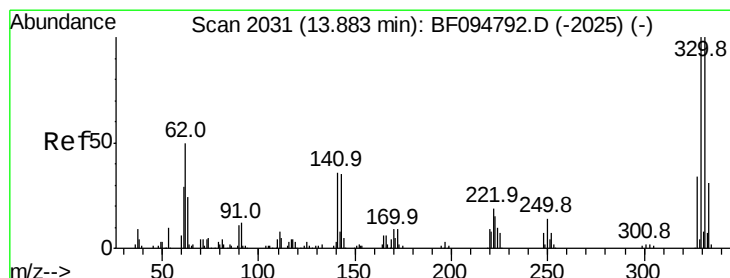
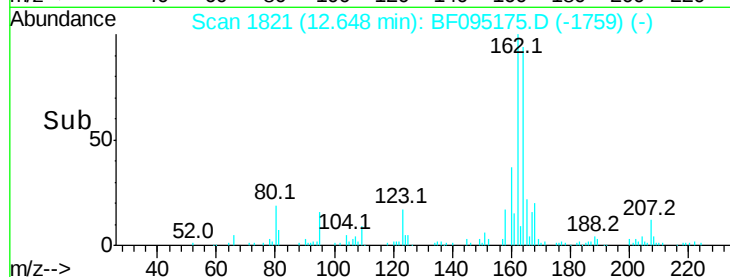
0

12.65

12.60

12.70

Time-->



#41

2,4,6-Tribromophenol

Concen: 105.72 ng

RT: 13.96 min Scan# 2044

Delta R.T. 0.08 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

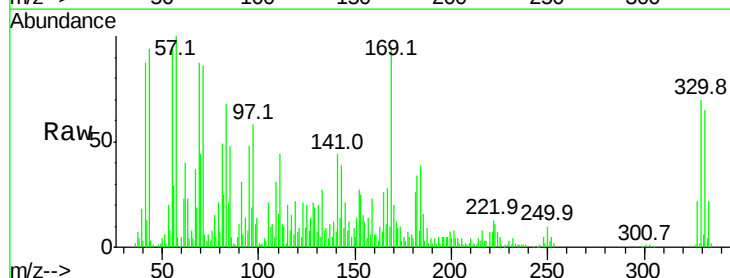
Tgt Ion:330 Resp: 99364

Ion Ratio Lower Upper

330 100

332 94.7 76.6 115.0

141 43.0 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

80000

60000

40000

20000

0

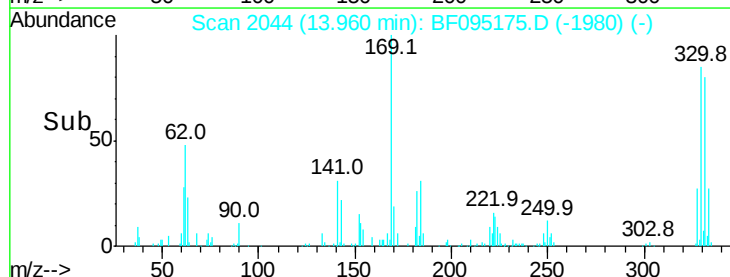
13.96

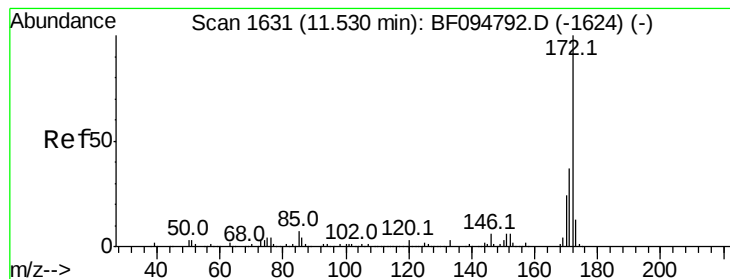
13.90

14.00

14.10

Time-->





#44

2-Fluorobiphenyl

Concen: 78.31 ng

RT: 11.57 min Scan# 1638

Delta R.T. 0.04 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

Instrument :

BNA_F

ClientSampleId :

DS-1-4

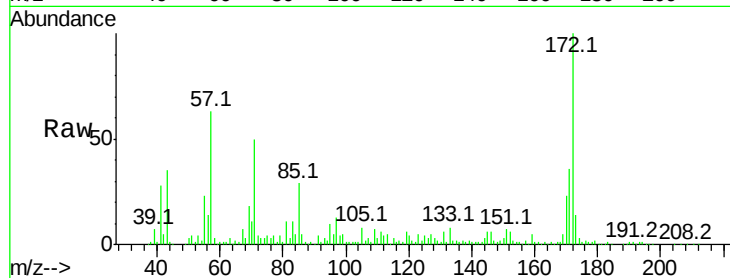
Tot Ion:172 Resp: 624385

Ion Ratio Lower Upper

172 100

171 35.9 29.6 44.4

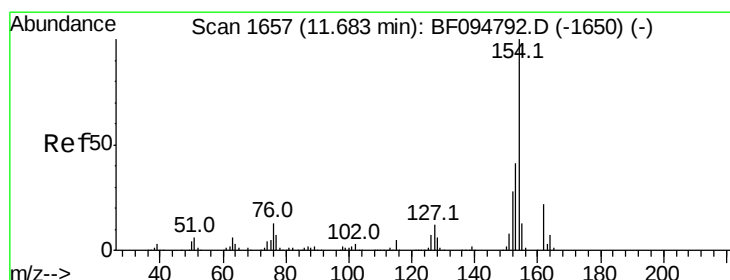
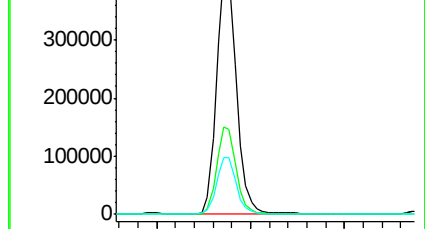
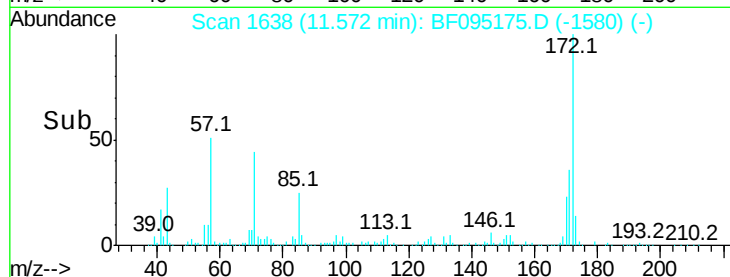
170 23.4 19.8 29.8



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



#45

1,1'-Biphenyl

Concen: 7.26 ng

RT: 11.73 min Scan# 1665

Delta R.T. 0.05 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

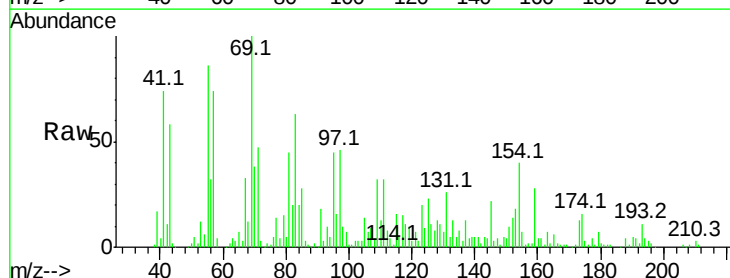
Tgt Ion:154 Resp: 70182

Ion Ratio Lower Upper

154 100

153 45.0 21.2 61.2

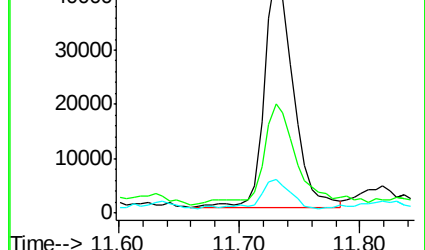
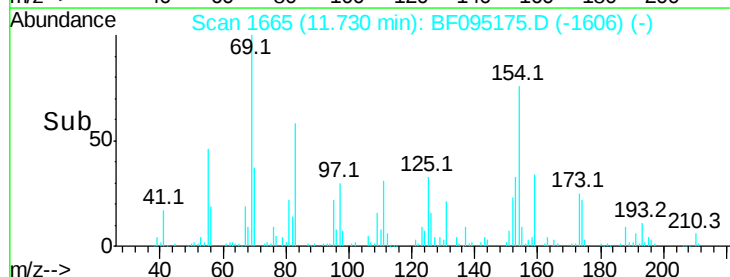
76 13.6 0.0 29.9

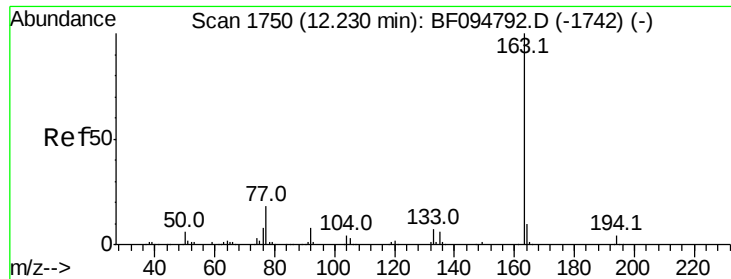


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0





#49

Dimethylphthalate

Concen: 8.84 ng

RT: 12.27 min Scan# 1756

Delta R.T. 0.04 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

Instrument :

BNA_F

ClientSampled :

DS-1-4

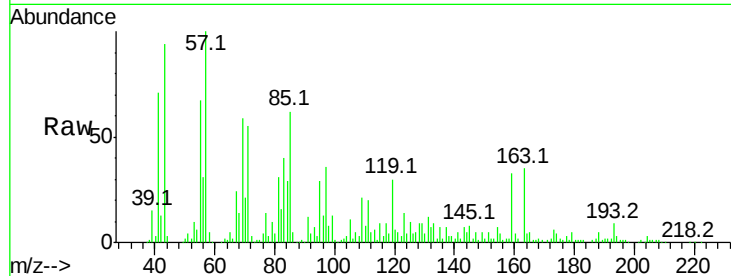
Tot Ion:163 Resp: 83304

Ion Ratio Lower Upper

163 100

194 9.6 2.6 4.0#

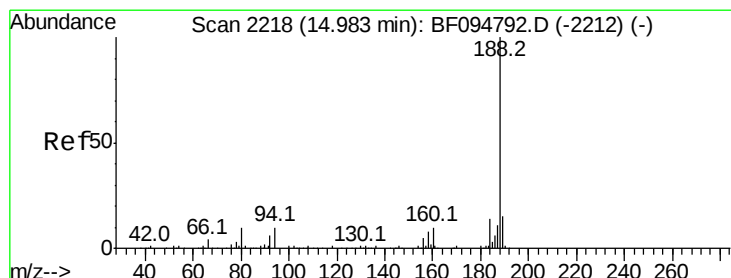
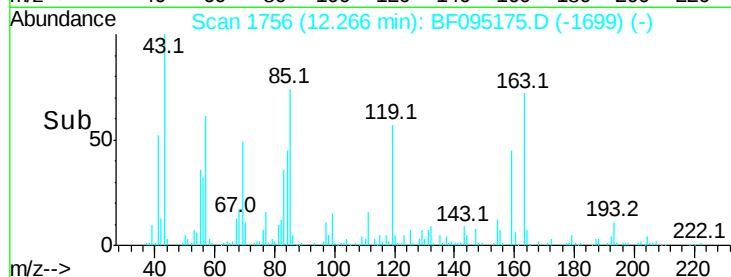
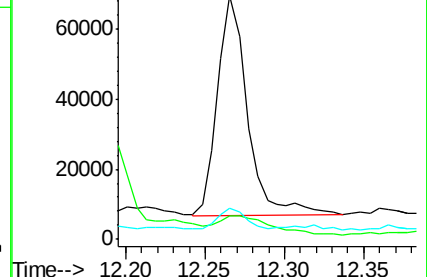
164 12.5 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 15.07 min Scan# 2232

Delta R.T. 0.08 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

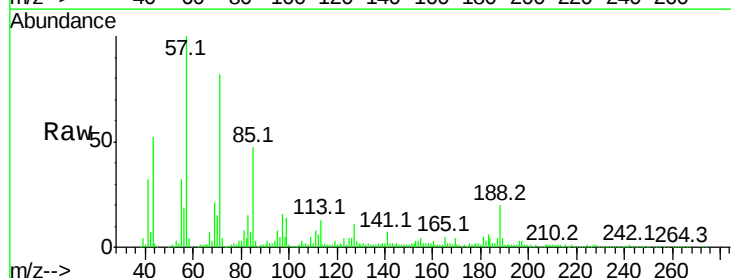
Tgt Ion:188 Resp: 140892

Ion Ratio Lower Upper

188 100

94 14.6 9.4 14.2#

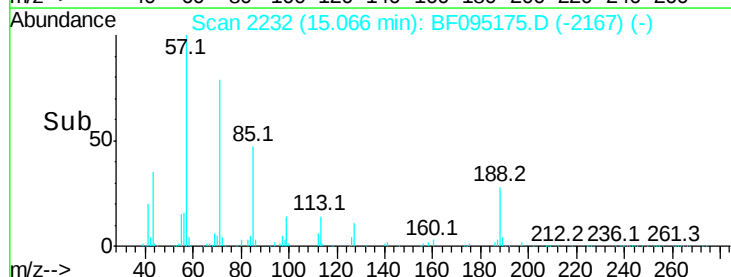
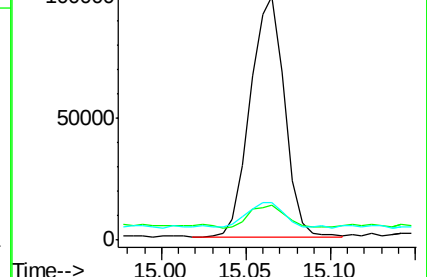
80 15.6 10.2 15.2#

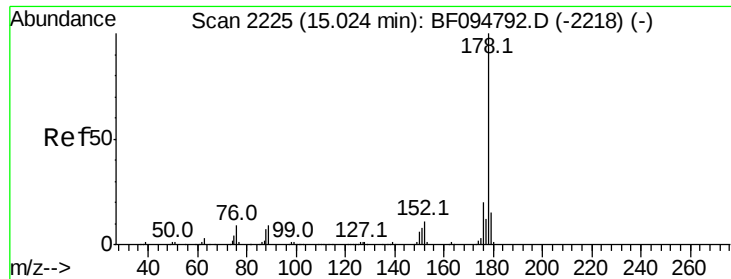


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

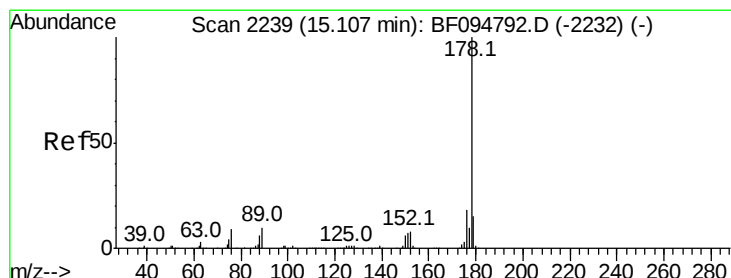
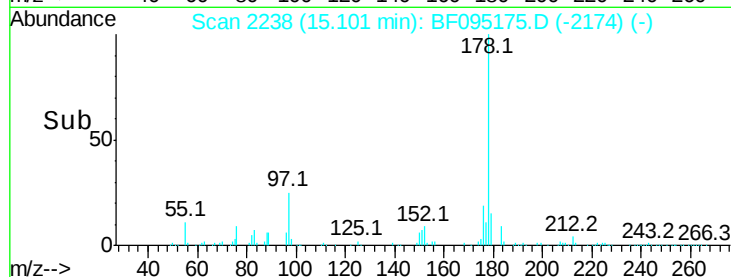
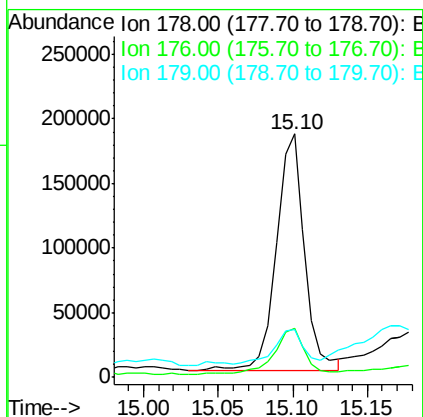
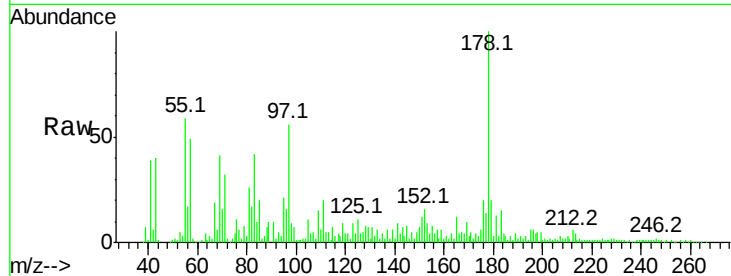




#70
Phenanthrene
Concen: 29.72 ng
RT: 15.10 min Scan# 2238
Delta R.T. 0.08 min
Lab File: BF095175.D
Acq: 17 May 2017 1:20

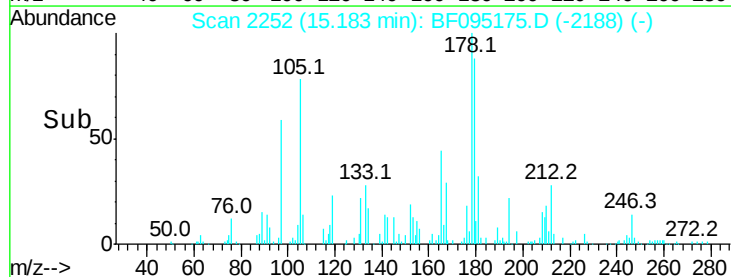
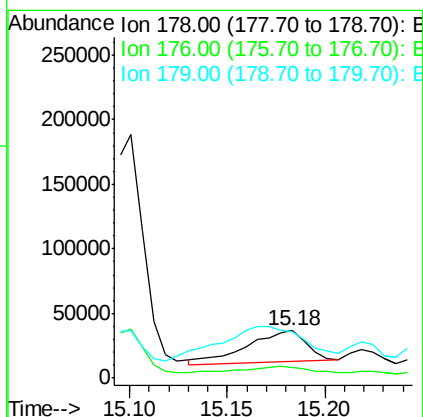
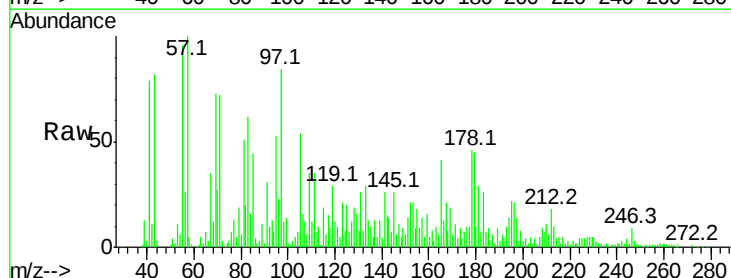
Instrument :
BNA_F
ClientSampleId :
DS-1-4

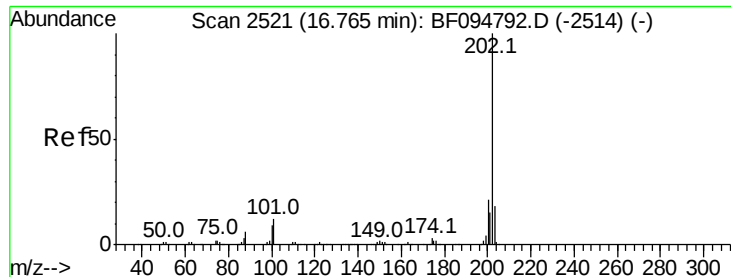
Tot Ion:178 Resp: 240557
Ion Ratio Lower Upper
178 100
176 20.3 16.2 24.4
179 19.6 12.6 19.0#



#71
Anthracene
Concen: 6.23 ng
RT: 15.18 min Scan# 2252
Delta R.T. 0.08 min
Lab File: BF095175.D
Acq: 17 May 2017 1:20

Tgt Ion:178 Resp: 51495
Ion Ratio Lower Upper
178 100
176 22.0 15.8 23.8
179 98.4 12.7 19.1#





#74

Fluoranthene

Concen: 17.29 ng

RT: 16.82 min Scan# 2531

Delta R.T. 0.06 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

Instrument :

BNA_F

ClientSampleId :

DS-1-4

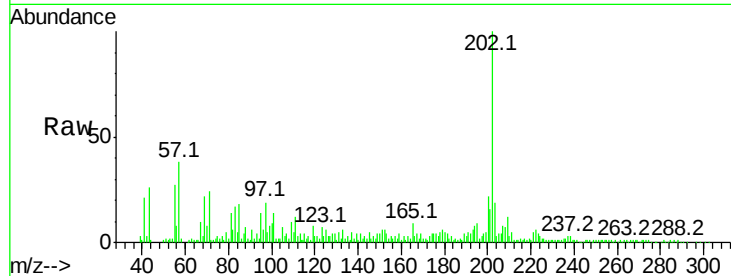
Tot Ion:202 Resp: 143600

Ion Ratio Lower Upper

202 100

101 13.6 0.0 33.2

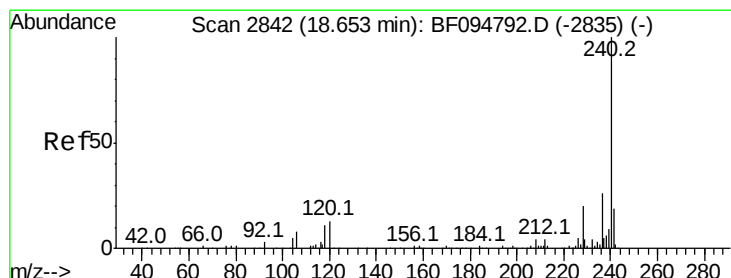
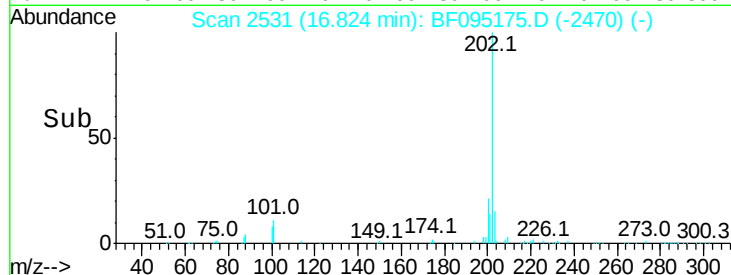
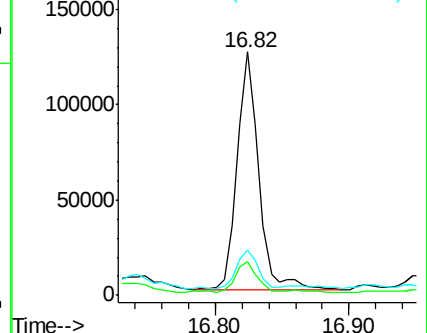
203 18.8 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.69 min Scan# 2849

Delta R.T. 0.04 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

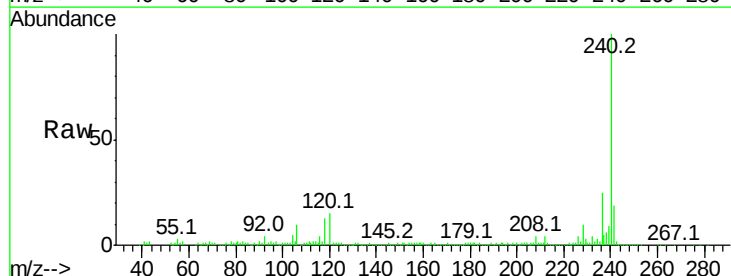
Tgt Ion:240 Resp: 170121

Ion Ratio Lower Upper

240 100

120 15.0 5.8 8.8#

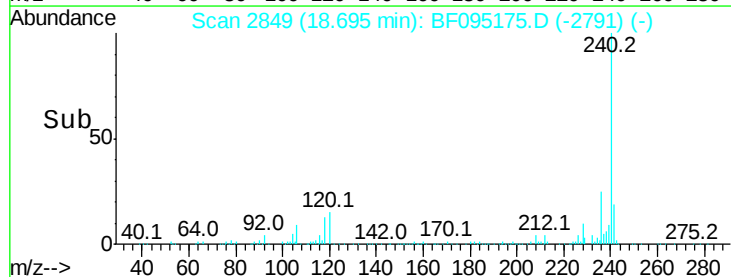
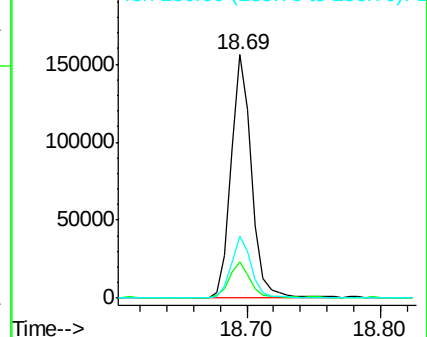
236 25.2 20.5 30.7

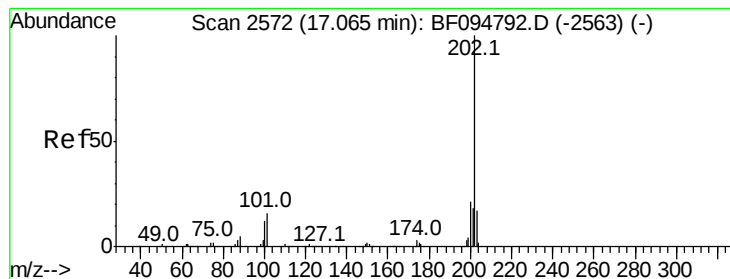


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 12.45 ng

RT: 17.12 min Scan# 2582

Delta R.T. 0.06 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

Instrument :

BNA_F

ClientSampleId :

DS-1-4

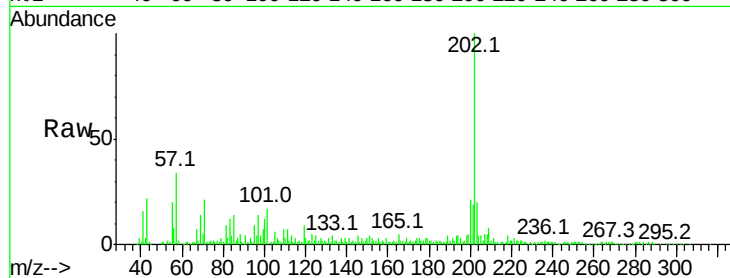
Tot Ion:202 Resp: 158372

Ion Ratio Lower Upper

202 100

200 21.2 17.6 26.4

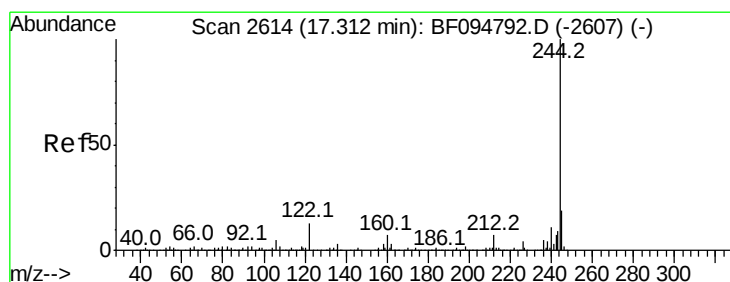
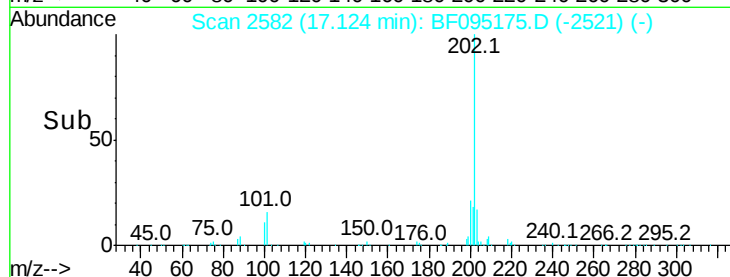
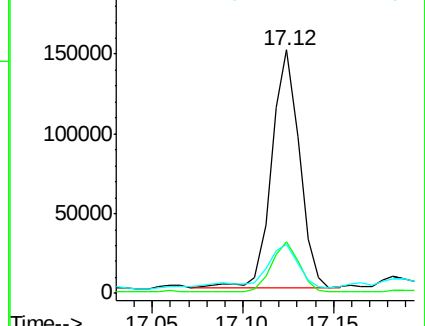
203 20.1 14.4 21.6



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: 60.40 ng

RT: 17.35 min Scan# 2621

Delta R.T. 0.04 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

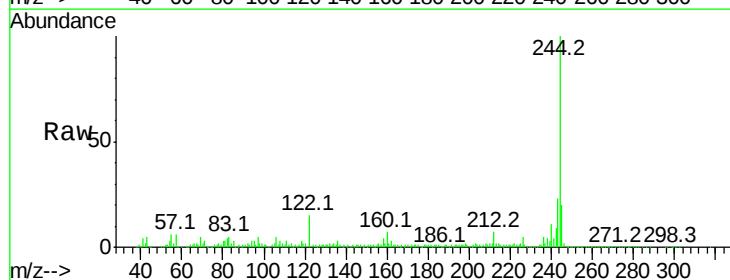
Tgt Ion:244 Resp: 466522

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

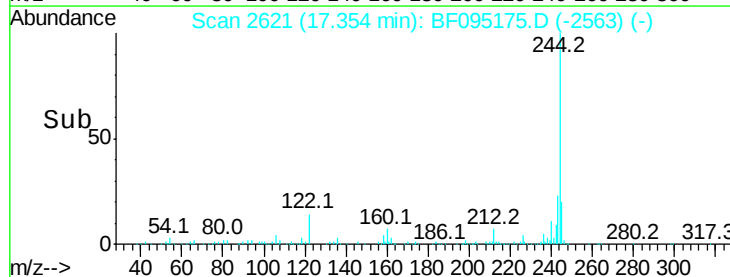
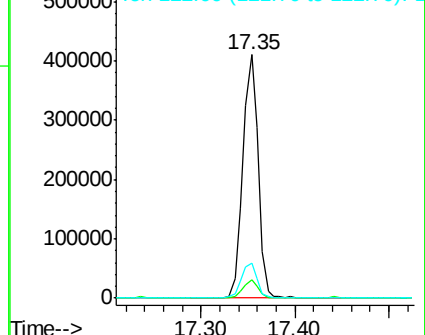
122 14.6 10.3 15.5

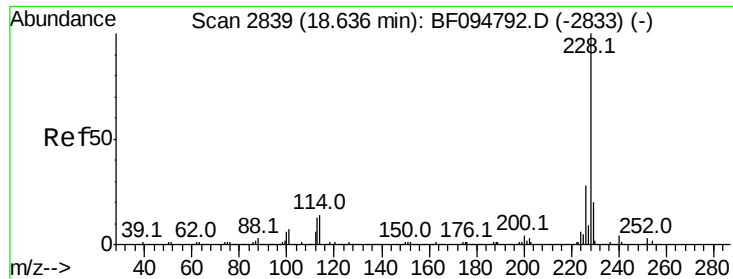


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 4.76 ng/mL

RT: 18.68 min Scan# 2847

Delta R.T. 0.05 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

Instrument :

BNA_F

ClientSampleId :

DS-1-4

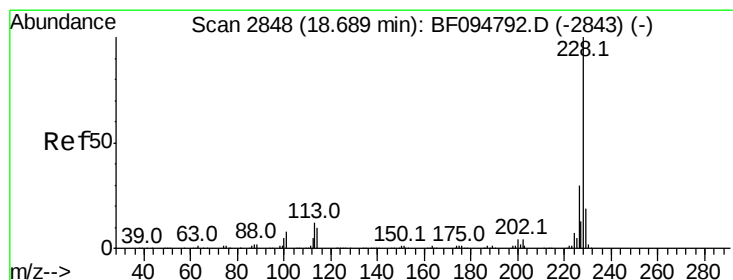
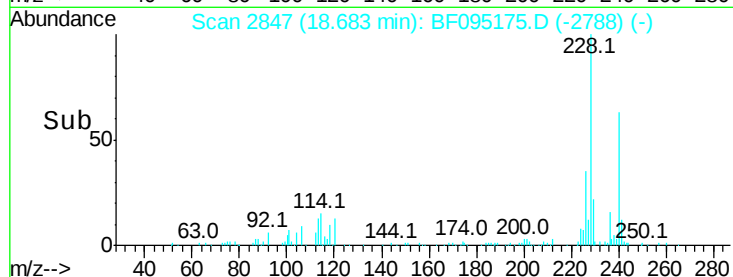
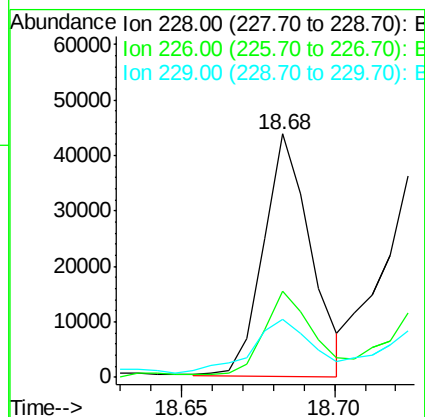
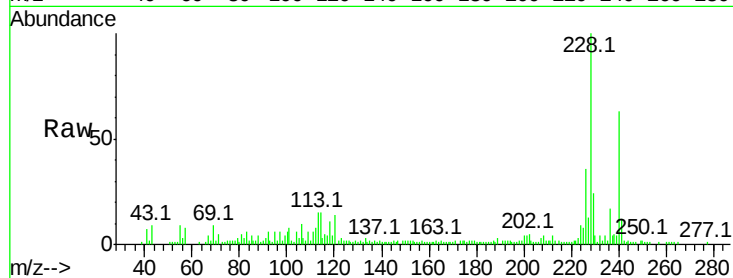
Tot Ion:228 Resp: 47152

Ion Ratio Lower Upper

228 100

226 35.6 22.6 33.8#

229 23.9 16.3 24.5



#82

Chrysene

Concen: 7.04 ng/mL

RT: 18.73 min Scan# 2855

Delta R.T. 0.04 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

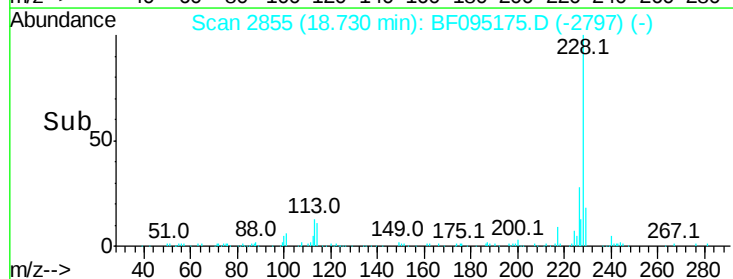
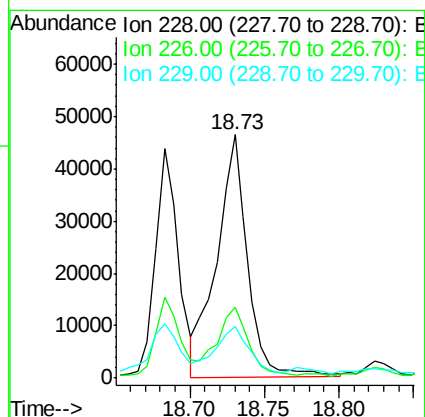
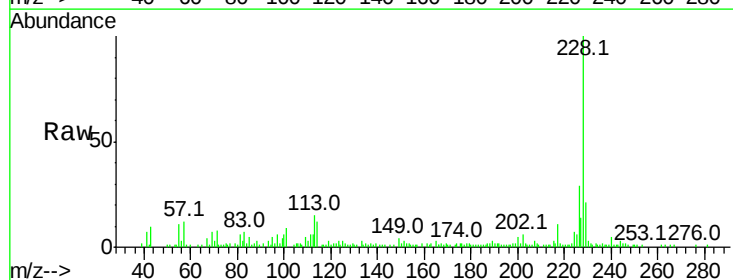
Tgt Ion:228 Resp: 67423

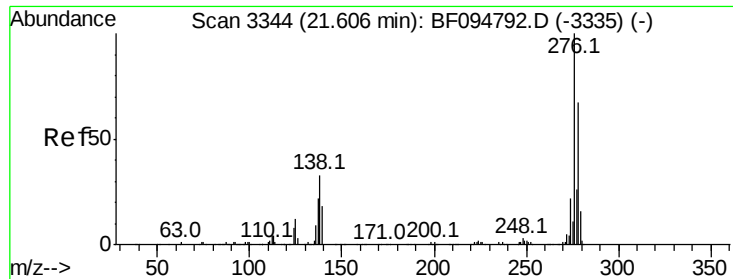
Ion Ratio Lower Upper

228 100

226 29.3 24.9 37.3

229 21.2 15.8 23.6

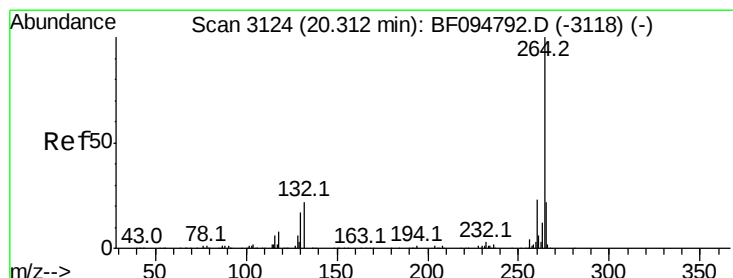
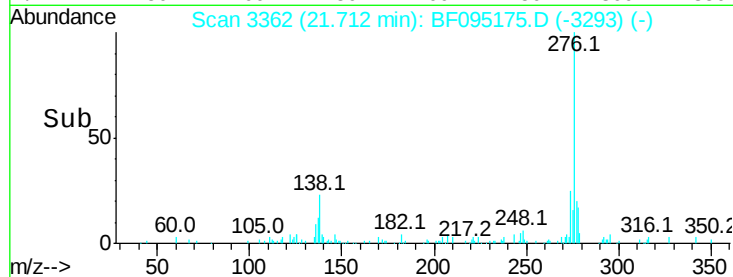
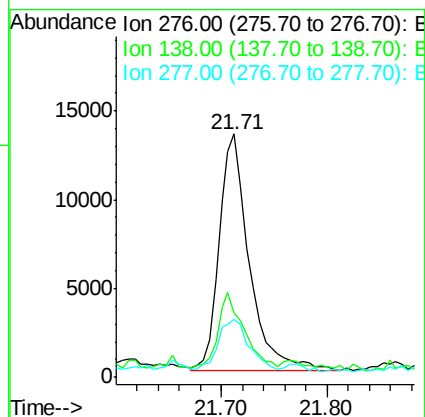
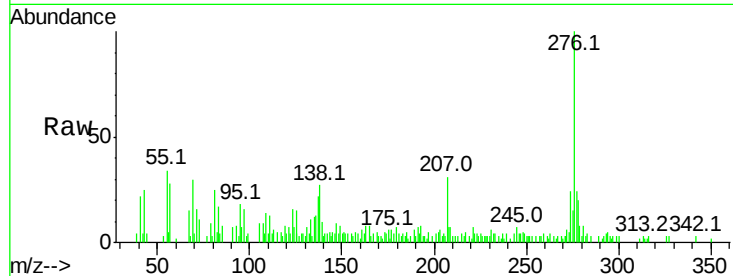




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.42 ng
 RT: 21.71 min Scan# 3362
 Delta R.T. 0.11 min
 Lab File: BF095175.D
 Acq: 17 May 2017 1:20

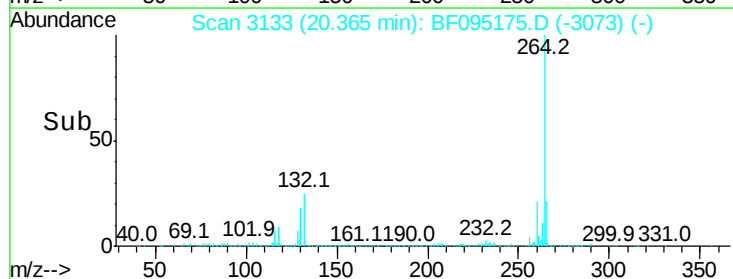
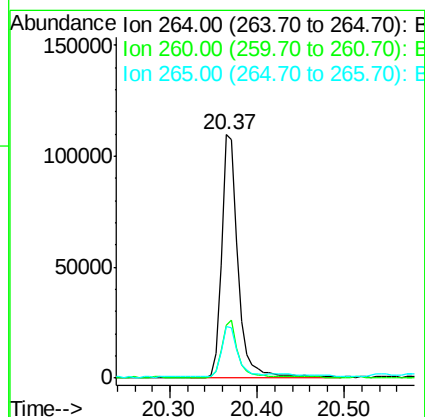
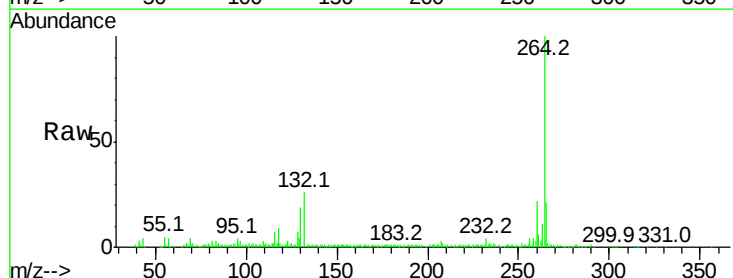
Instrument :
 BNA_F
 ClientSampleId :
 DS-1-4

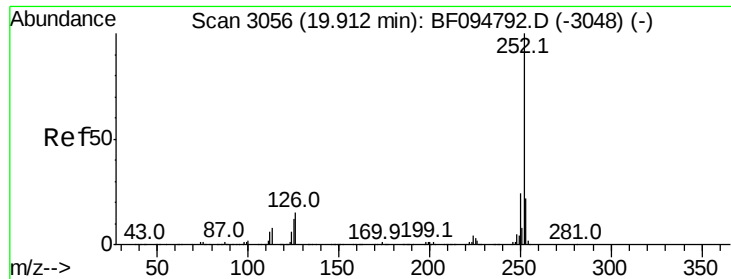
Tot Ion:	276	Resp:	26609
Ion	Ratio	Lower	Upper
276	100		
138	27.4	27.8	41.6#
277	22.7	20.2	30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 20.37 min Scan# 3133
 Delta R.T. 0.05 min
 Lab File: BF095175.D
 Acq: 17 May 2017 1:20

Tgt Ion:	264	Resp:	144060
Ion	Ratio	Lower	Upper
264	100		
260	21.8	19.5	29.3
265	21.4	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 7.16 ng m

RT: 19.97 min Scan# 3065

Delta R.T. 0.05 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

Instrument :

BNA_F

ClientSampleId :

DS-1-4

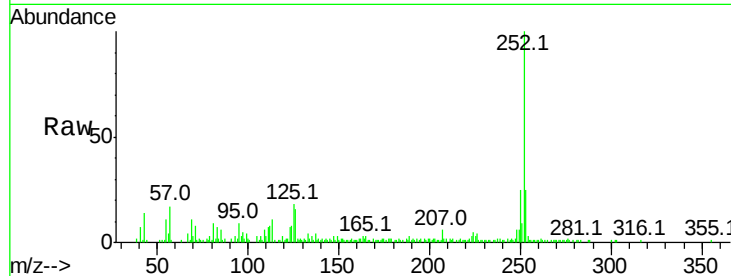
Tot Ion:252 Resp: 63720

Ion Ratio Lower Upper

252 100

253 25.4 18.1 27.1

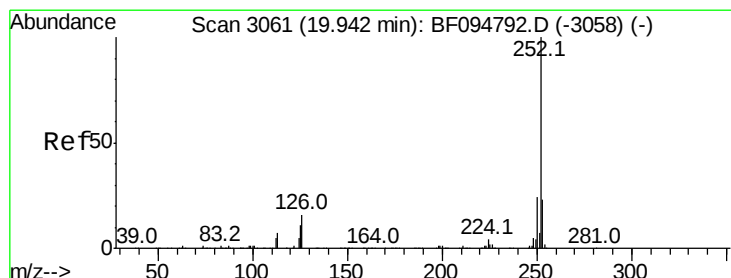
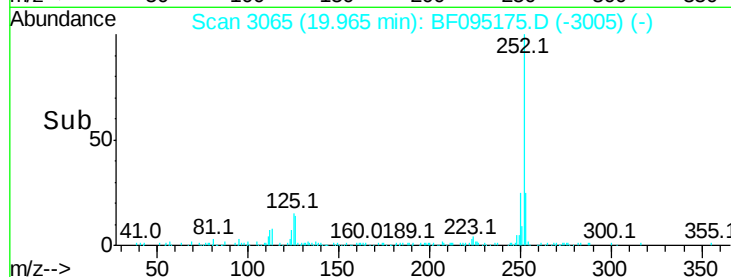
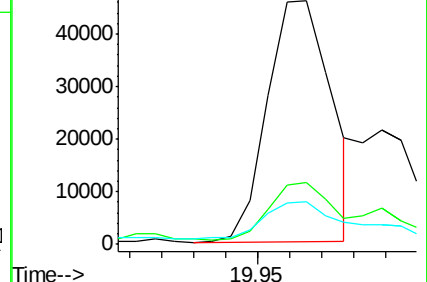
125 17.7 9.8 14.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 3.21 ng m

RT: 19.99 min Scan# 3069

Delta R.T. 0.05 min

Lab File: BF095175.D

Acq: 17 May 2017 1:20

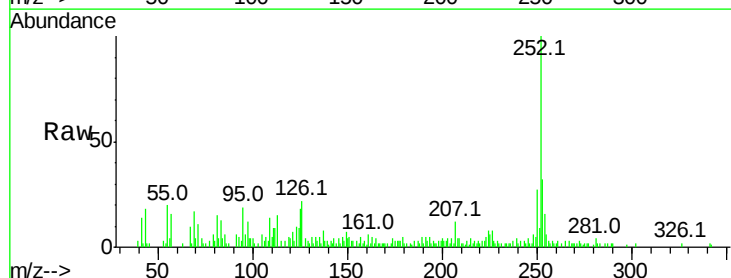
Tgt Ion:252 Resp: 27577

Ion Ratio Lower Upper

252 100

253 32.2 18.4 27.6#

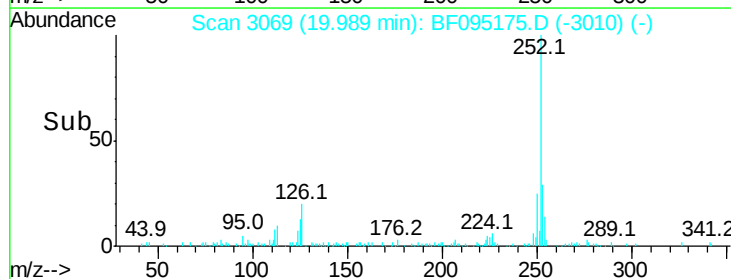
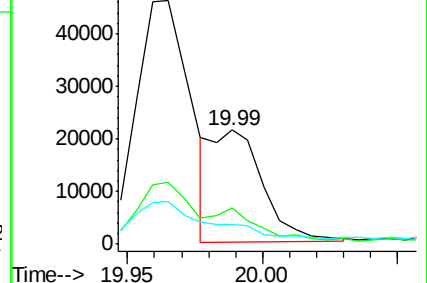
125 17.6 13.1 19.7

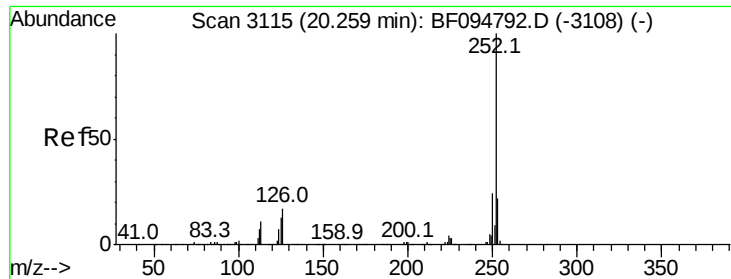


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

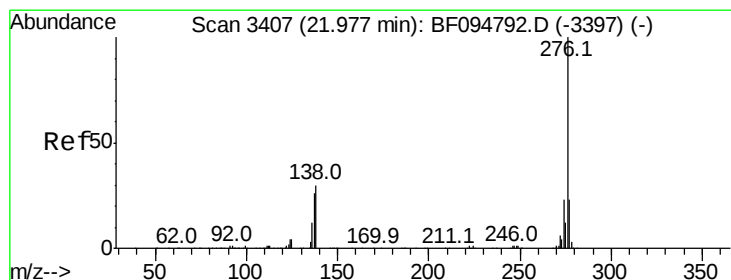
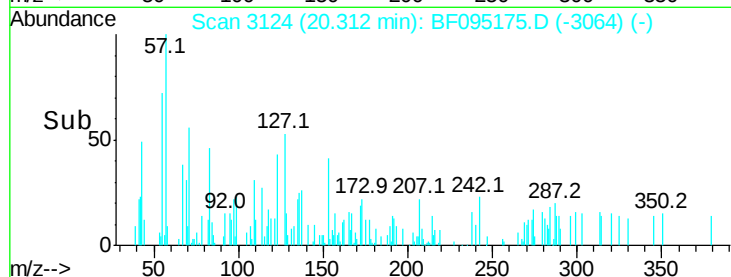
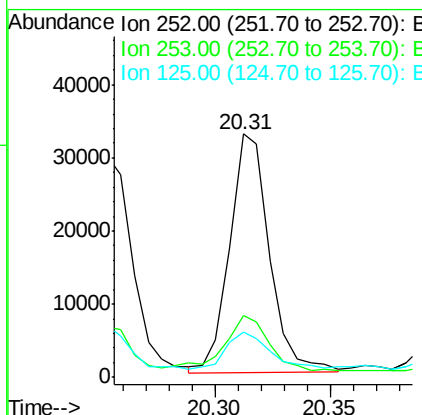
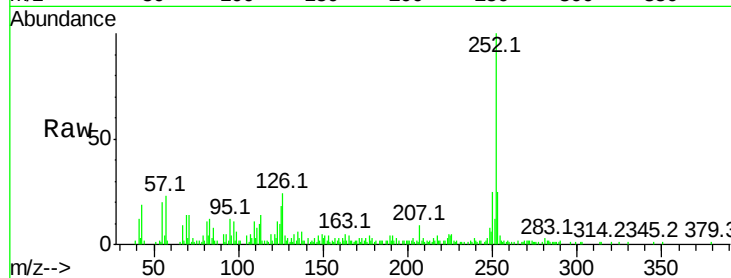




#89
Benzo(a)pyrene
Concen: 4.80 ng
RT: 20.31 min Scan# 3124
Delta R.T. 0.05 min
Lab File: BF095175.D
Acq: 17 May 2017 1:20

Instrument :
BNA_F
ClientSampled :
DS-1-4

Tot Ion:252 Resp: 39406
Ion Ratio Lower Upper
252 100
253 25.3 17.5 26.3
125 18.4 11.0 16.4#



#91
Benzo(g,h,i)perylene
Concen: 3.76 ng
RT: 22.10 min Scan# 3428
Delta R.T. 0.12 min
Lab File: BF095175.D
Acq: 17 May 2017 1:20

Tgt Ion:276 Resp: 25017
Ion Ratio Lower Upper
276 100
277 24.6 18.6 28.0
138 27.2 25.4 38.0

