

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051117\
 Data File : BF095094.D
 Acq On : 11 May 2017 22:49
 Operator : SJ/MA
 Sample : I3065-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 12 02:59:45 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

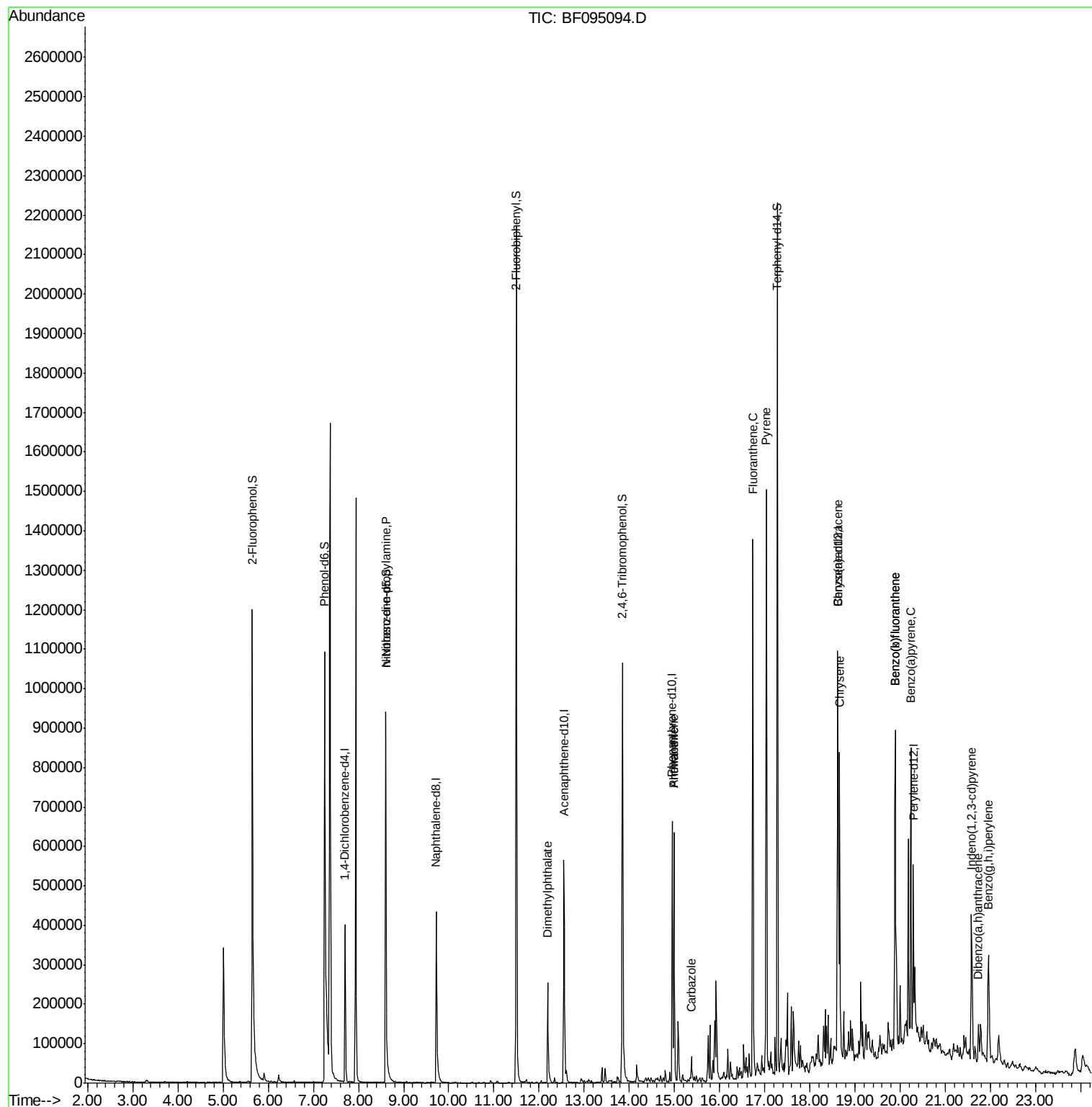
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.70	152	83972	20.00	ng	-0.03
21) Naphthalene-d8	9.72	136	354625	20.00	ng	-0.03
38) Acenaphthene-d10	12.55	164	169160	20.00	ng	-0.03
63) Phenanthrene-d10	14.95	188	304502	20.00	ng	-0.03
75) Chrysene-d12	18.62	240	211197	20.00	ng	-0.03
86) Perylene-d12	20.29	264	183726	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.65	112	672280	133.48	ng	-0.03
7) Phenol-d6	7.25	99	831401	137.58	ng	-0.03
23) Nitrobenzene-d5	8.61	82	489251	87.00	ng	-0.03
41) 2,4,6-Tribromophenol	13.85	330	185584	133.96	ng	-0.04
44) 2-Fluorobiphenyl	11.50	172	1012668	86.17	ng	-0.03
78) Terphenyl-d14	17.28	244	849327	88.58	ng	-0.03
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	8.60	70	60305	14.75	ng	# 73
49) Dimethylphthalate	12.19	163	176351	12.70	ng	100
70) Phenanthrene	14.99	178	352719	20.16	ng	98
71) Anthracene	14.99	178	352719	19.74	ng	98
72) Carbazole	15.38	167	43270	2.66	ng	98
74) Fluoranthene	16.74	202	722886	40.28	ng	98
77) Pyrene	17.04	202	674173	42.68	ng	98
80) Benzo(a)anthracene	18.61	228	370611	30.15	ng	98
82) Chrysene	18.66	228	335282	28.21	ng	97
85) Indeno(1,2,3-cd)pyrene	21.58	276	219162	22.71	ng	91
87) Benzo(b)fluoranthene	19.89	252	565736	49.83	ng	# 97
88) Benzo(k)fluoranthene	19.89	252	565736	51.66	ng	98
89) Benzo(a)pyrene	20.24	252	331309	31.63	ng	97
90) Dibenzo(a,h)anthracene	21.74	278	47663	5.51	ng	95
91) Benzo(a,h,i)perylene	21.96	276	204689	24.11	ng	96

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

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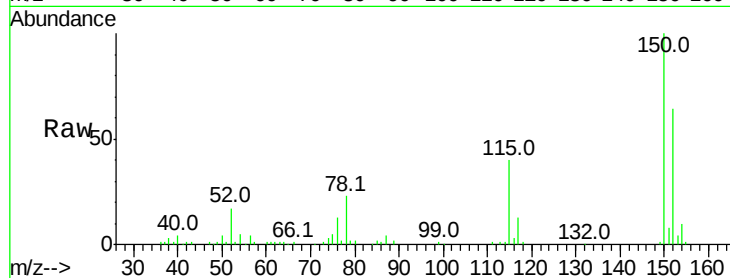


#1

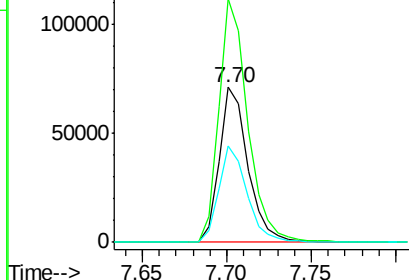
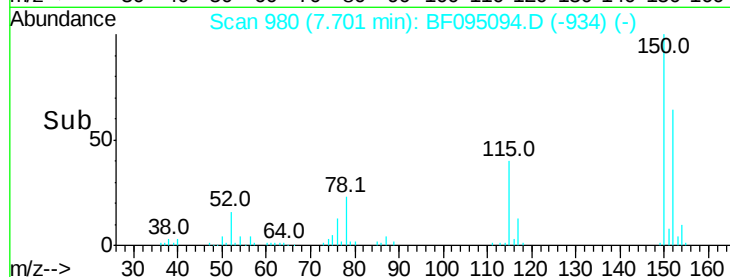
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.70 min Scan# 980
Delta R.T. -0.03 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 83972
Ion Ratio Lower Upper
152 100
150 156.9 126.2 189.2
115 62.5 52.2 78.2



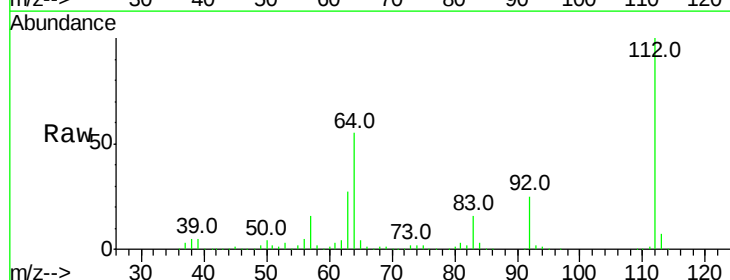
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



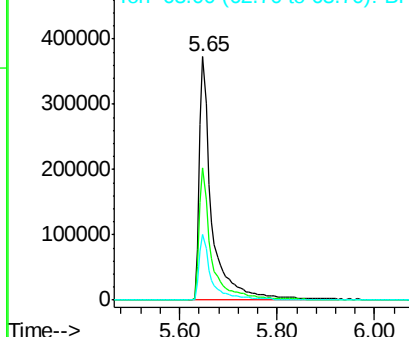
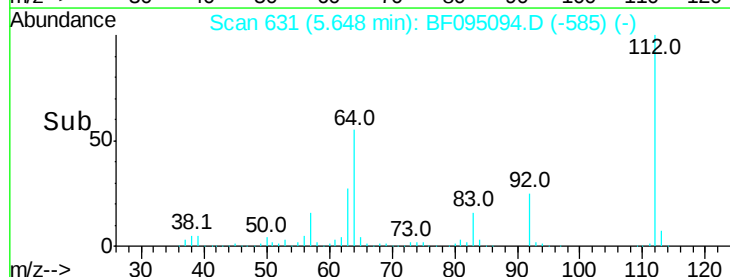
#5

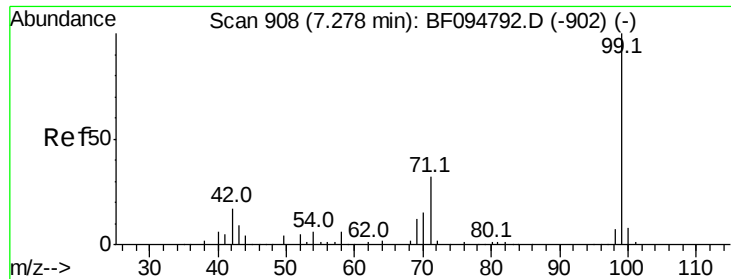
2-Fluorophenol
Concen: 133.48 ng
RT: 5.65 min Scan# 631
Delta R.T. -0.03 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Tgt Ion:112 Resp: 672280
Ion Ratio Lower Upper
112 100
64 54.6 46.0 69.0
63 27.1 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: 137.58 ng

RT: 7.25 min Scan# 903

Delta R.T. -0.03 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Instrument :

BNA_F

ClientSampled :

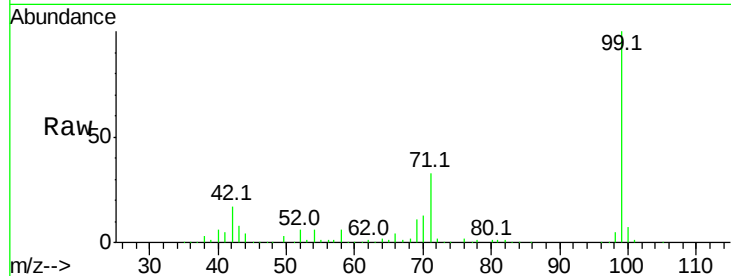
Tot Ion: 99 Resp: 831401

Ion Ratio Lower Upper

99 100

42 16.5 13.5 20.3

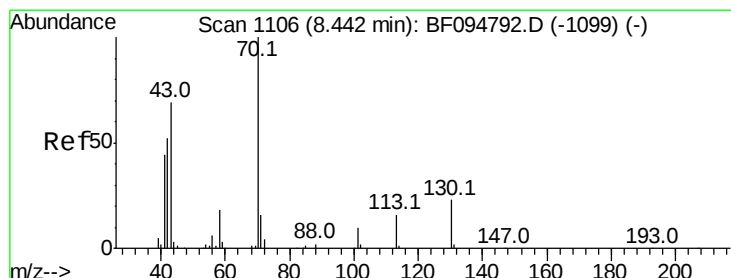
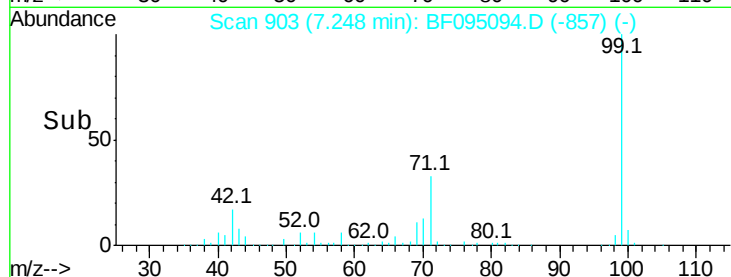
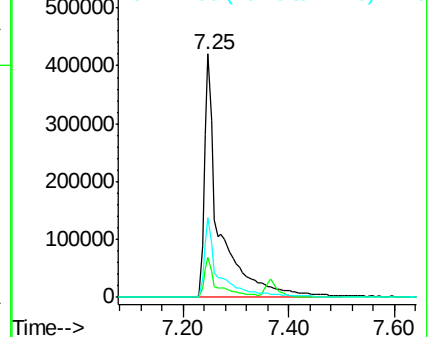
71 33.0 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 14.75 ng

RT: 8.60 min Scan# 1133

Delta R.T. 0.16 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Tgt Ion: 70 Resp: 60305

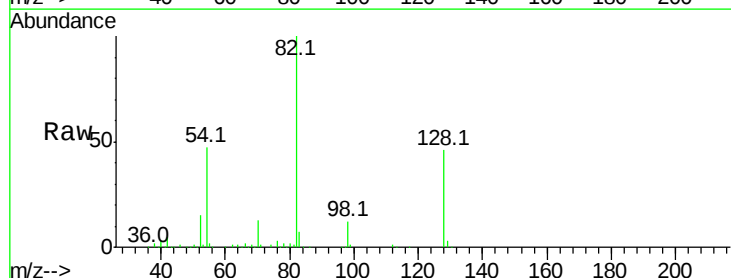
Ion Ratio Lower Upper

70 100

42 41.3 47.2 70.8#

101 0.0 7.2 10.8#

130 2.6 15.9 23.9#

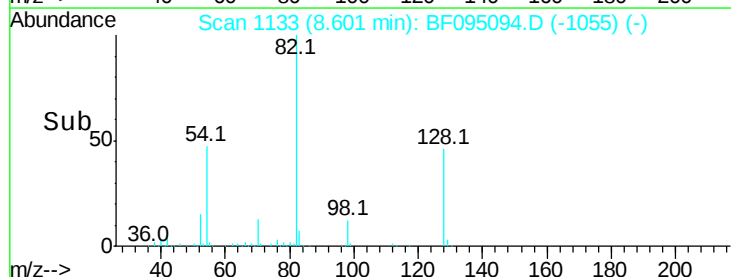
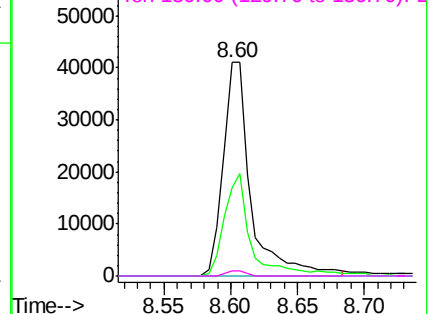


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.72 min Scan# 1324

Delta R.T. -0.03 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 354625

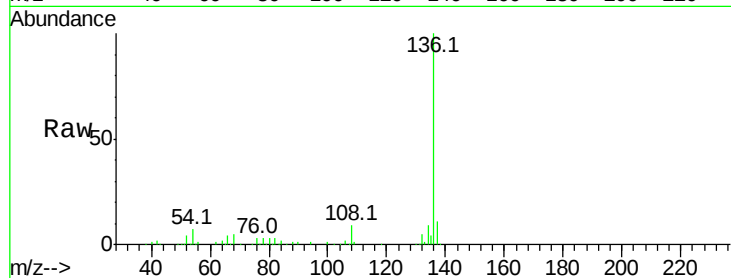
Ion Ratio Lower Upper

136 100

137 10.5 8.5 12.7

54 6.8 4.9 7.3

68 5.2 4.1 6.1

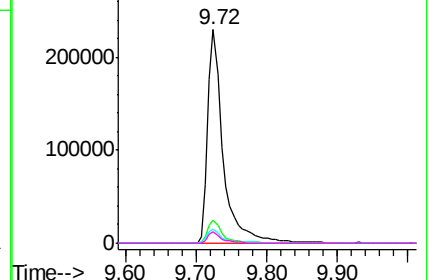
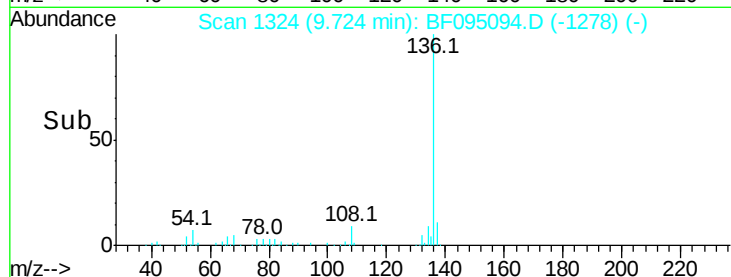


Abundance Ion 136.00 (135.70 to 136.70): E

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: 87.00 ng

RT: 8.61 min Scan# 1134

Delta R.T. -0.03 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

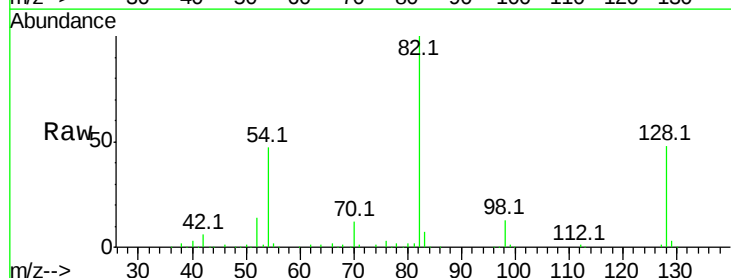
Tgt Ion: 82 Resp: 489251

Ion Ratio Lower Upper

82 100

128 48.1 34.0 51.0

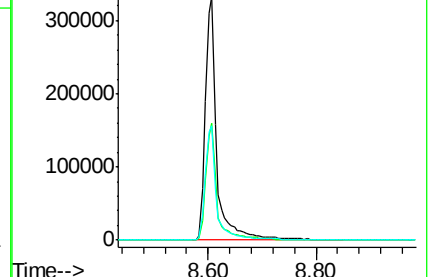
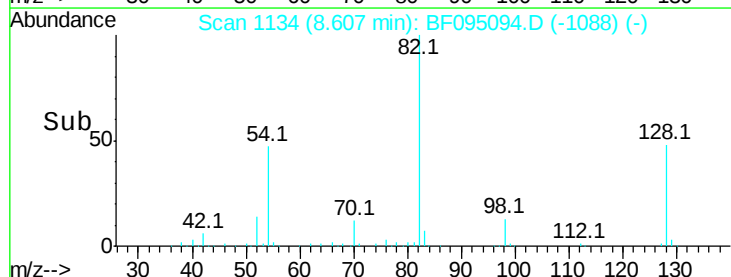
54 47.1 42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.55 min Scan# 1805

Delta R.T. -0.03 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Instrument :

BNA_F

ClientSampleId :

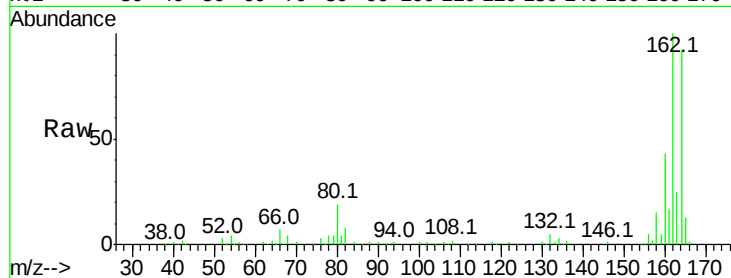
Tot Ion:164 Resp: 169160

Ion Ratio Lower Upper

164 100

162 108.4 82.6 123.8

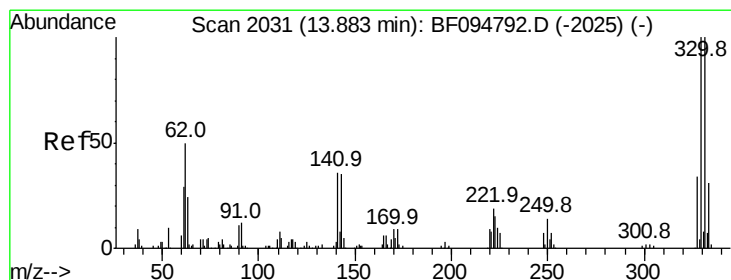
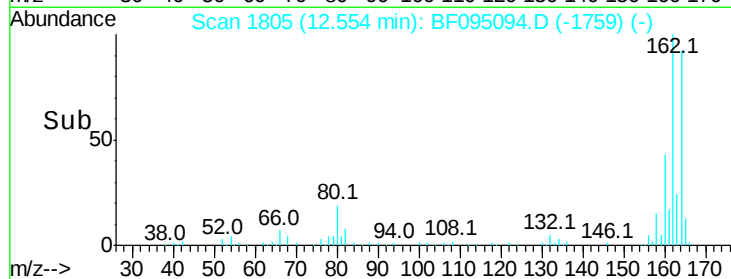
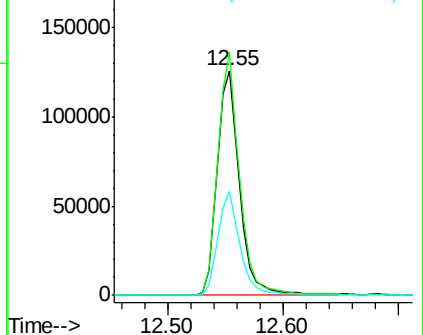
160 46.5 36.2 54.2



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



#41

2,4,6-Tribromophenol

Concen: 133.96 ng

RT: 13.85 min Scan# 2025

Delta R.T. -0.04 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

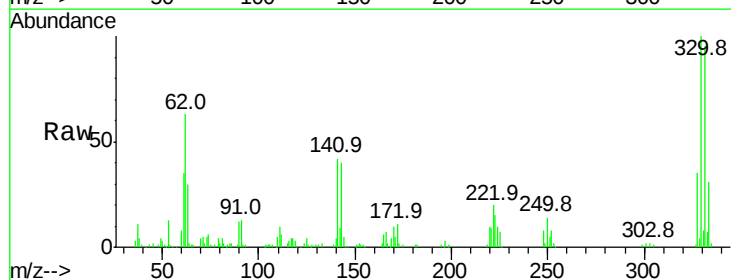
Tgt Ion:330 Resp: 185584

Ion Ratio Lower Upper

330 100

332 97.0 76.6 115.0

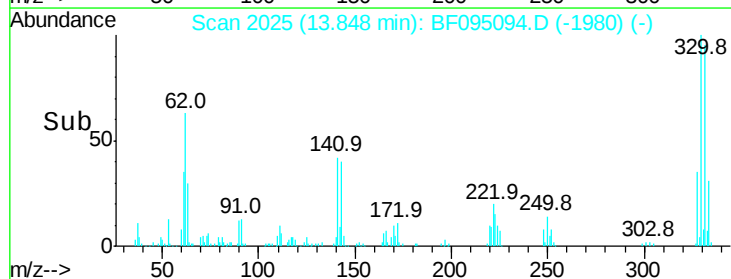
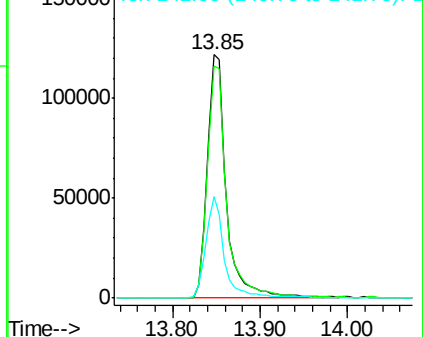
141 40.1 31.4 47.2

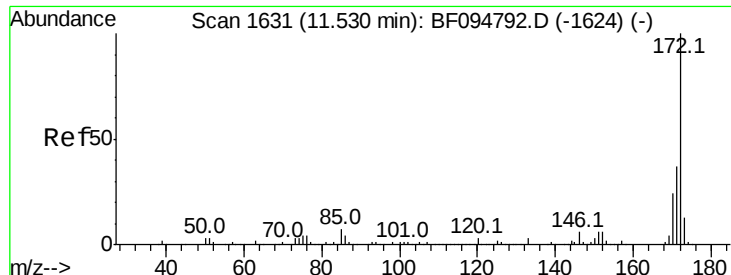


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

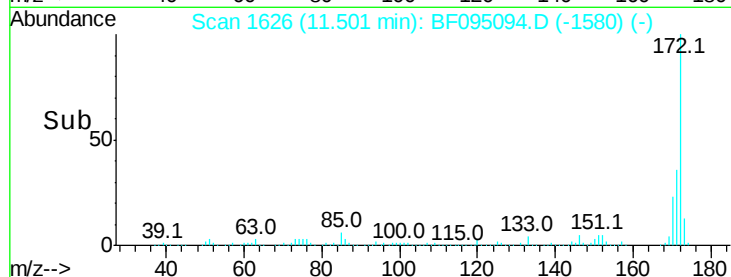
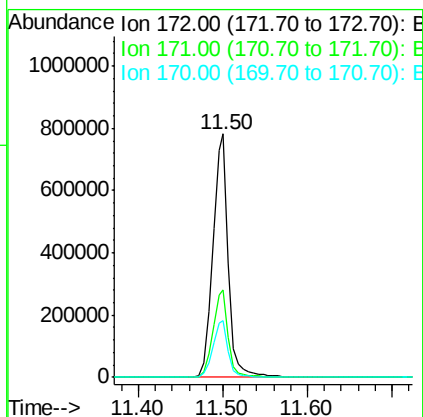
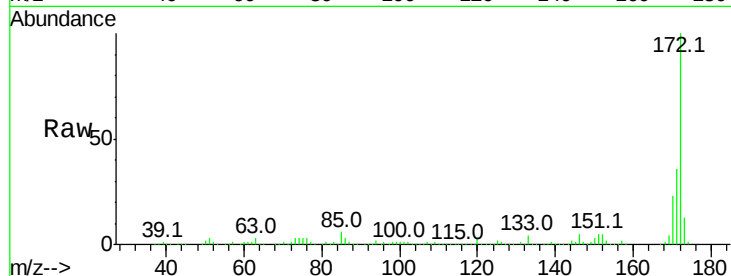




#44
2-Fluorobiphenyl
Concen: 86.17 ng
RT: 11.50 min Scan# 1626
Delta R.T. -0.03 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

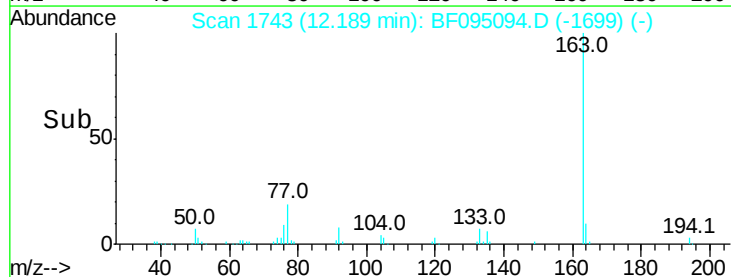
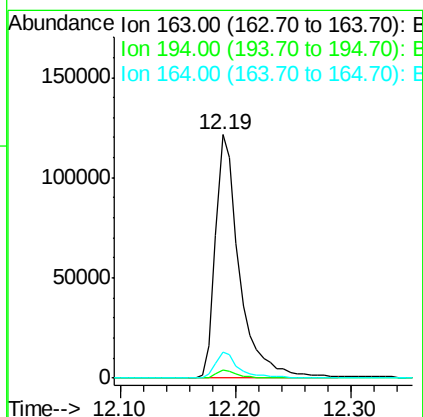
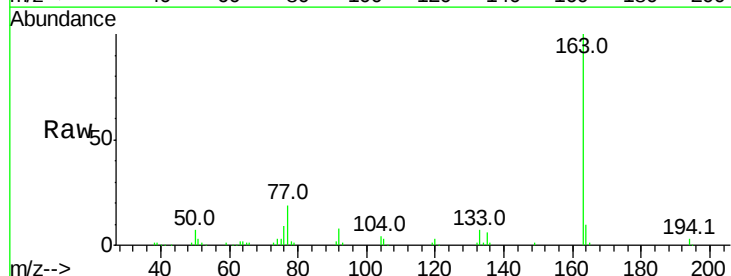
Instrument :
BNA_F
ClientSampleId :

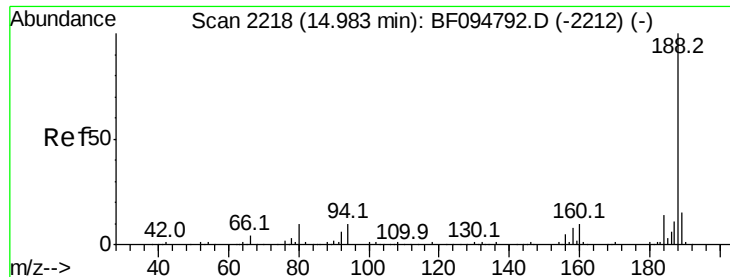
Tot Ion:172 Resp: 1012668
Ion Ratio Lower Upper
172 100
171 35.8 29.6 44.4
170 23.3 19.8 29.8



#49
Dimethylphthalate
Concen: 12.70 ng
RT: 12.19 min Scan# 1743
Delta R.T. -0.04 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Tgt Ion:163 Resp: 176351
Ion Ratio Lower Upper
163 100
194 3.4 2.6 4.0
164 10.5 8.4 12.6

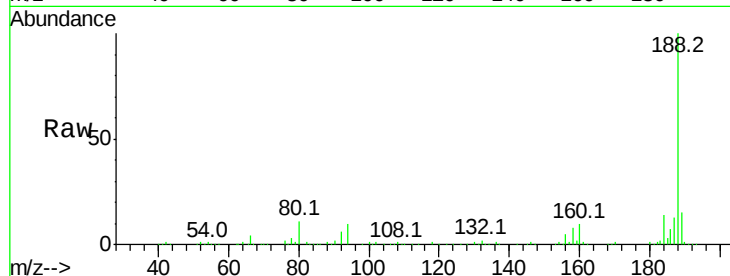




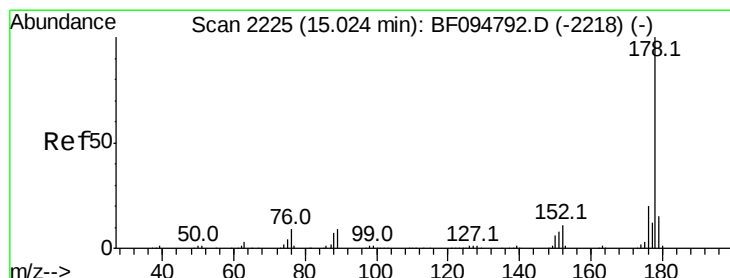
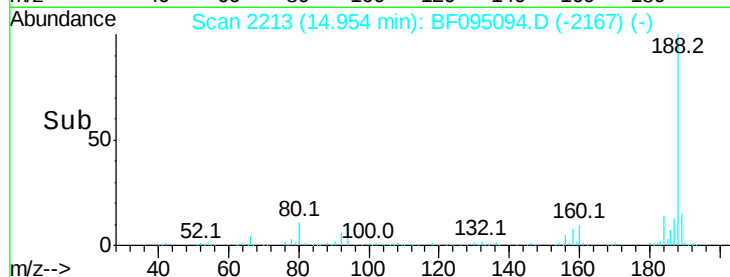
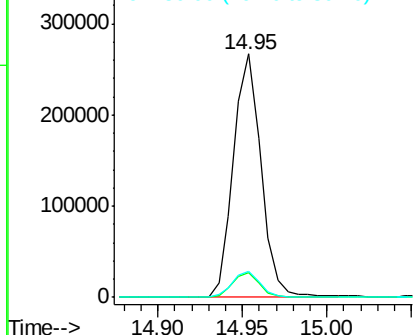
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.95 min Scan# 2213
Delta R.T. -0.03 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 304502
Ion Ratio Lower Upper
188 100
94 10.0 9.4 14.2
80 10.8 10.2 15.2

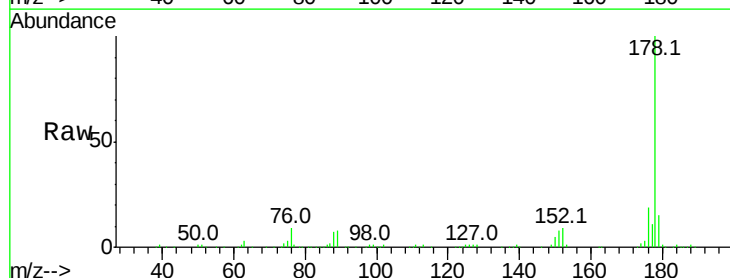


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

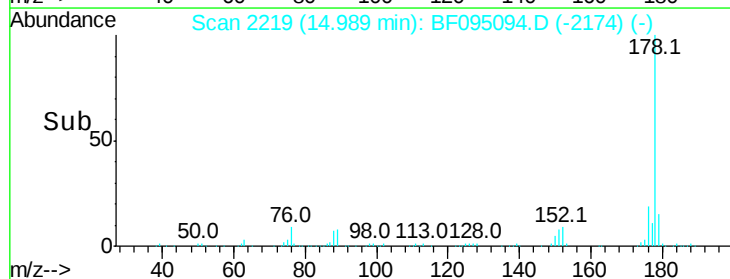
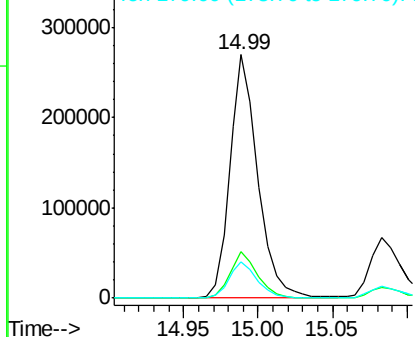


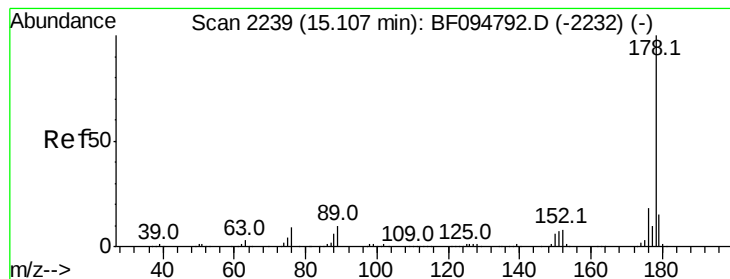
#70
Phenanthrene
Concen: 20.16 ng
RT: 14.99 min Scan# 2219
Delta R.T. -0.04 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Tgt Ion:178 Resp: 352719
Ion Ratio Lower Upper
178 100
176 18.9 16.2 24.4
179 15.1 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: 19.74 ng

RT: 14.99 min Scan# 2219

Delta R.T. -0.12 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Instrument :

BNA_F

ClientSampleId :

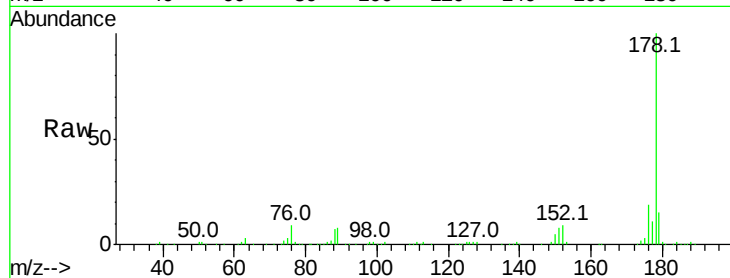
Tot Ion:178 Resp: 352719

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

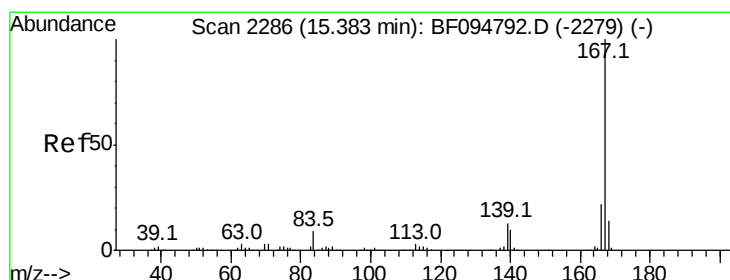
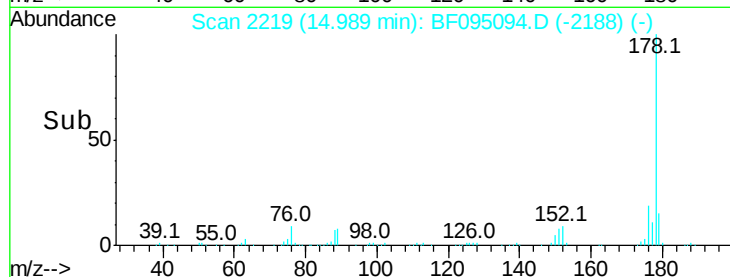
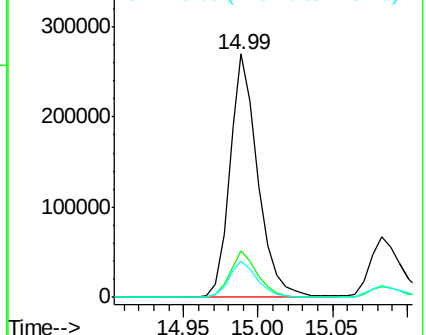
179 15.1 12.7 19.1



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



#72

Carbazole

Concen: 2.66 ng

RT: 15.38 min Scan# 2285

Delta R.T. -0.01 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

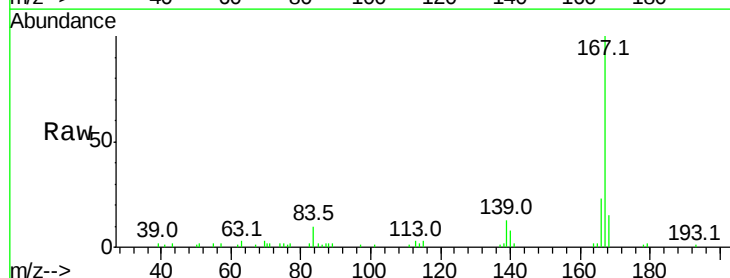
Tgt Ion:167 Resp: 43270

Ion Ratio Lower Upper

167 100

166 22.6 18.1 27.1

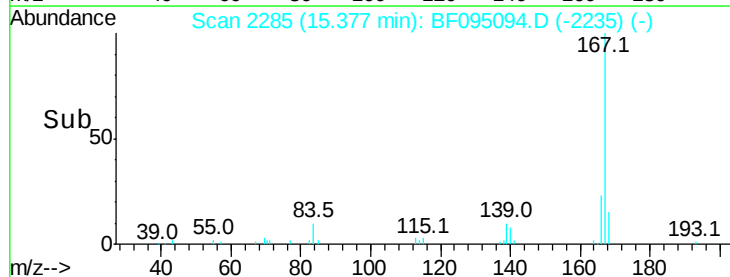
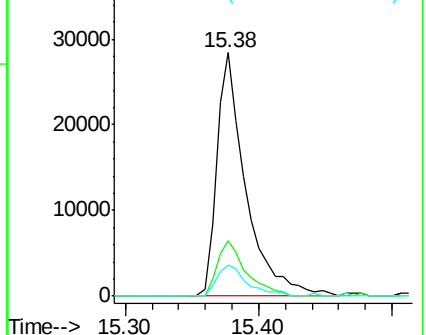
139 12.6 11.7 17.5

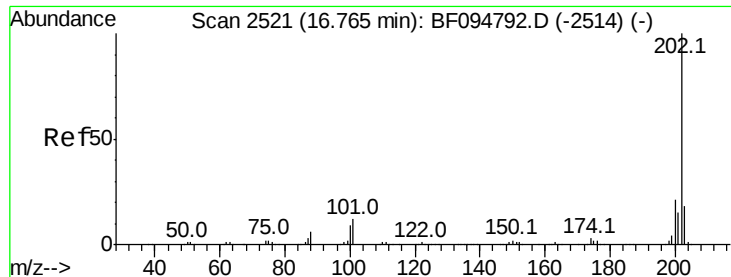


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 40.28 ng

RT: 16.74 min Scan# 2516

Delta R.T. -0.03 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Instrument :

BNA_F

ClientSampleId :

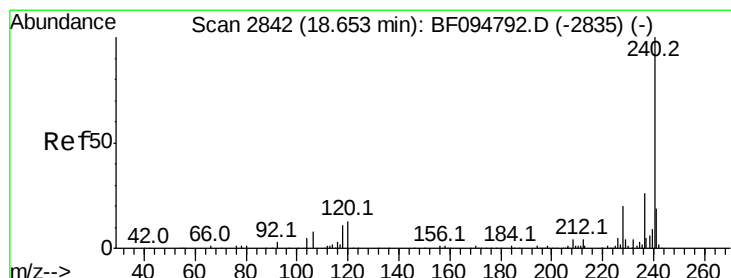
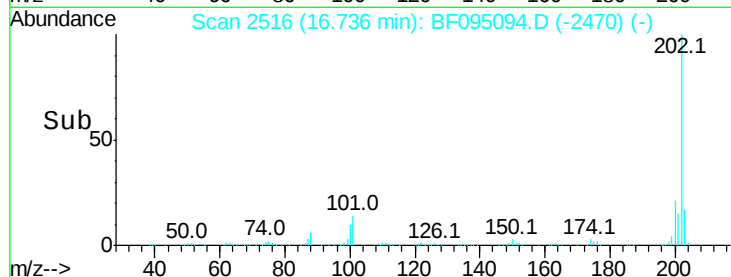
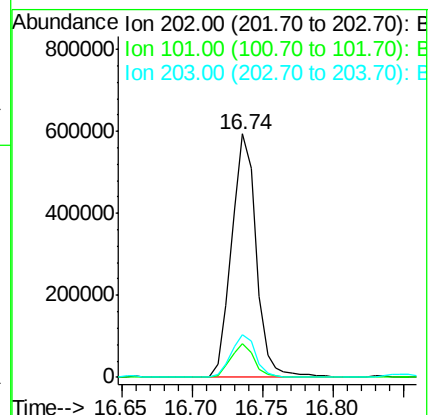
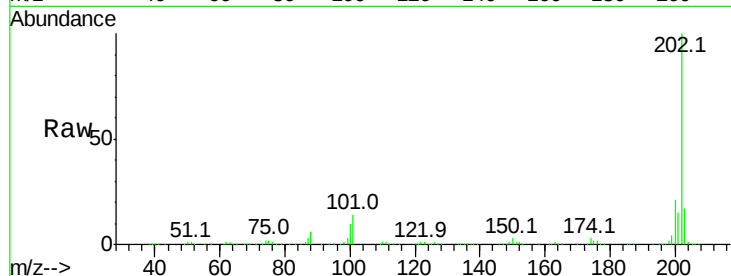
Tot Ion:202 Resp: 722886

Ion Ratio Lower Upper

202 100

101 13.7 0.0 33.2

203 17.3 0.0 38.1



#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.62 min Scan# 2837

Delta R.T. -0.03 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

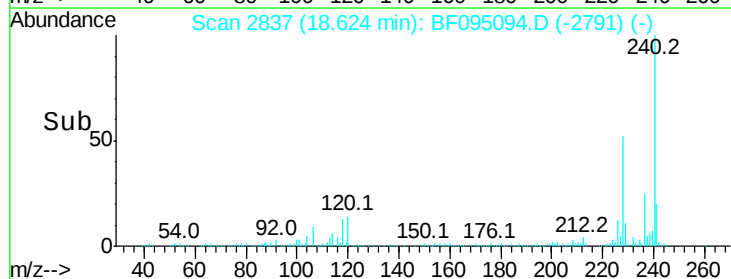
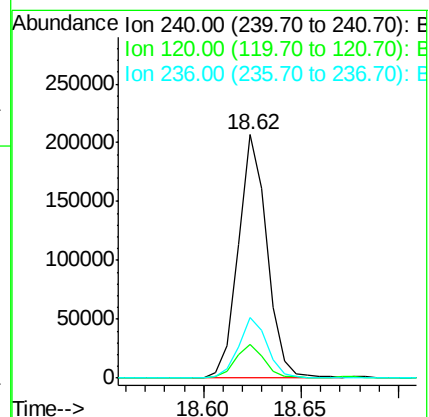
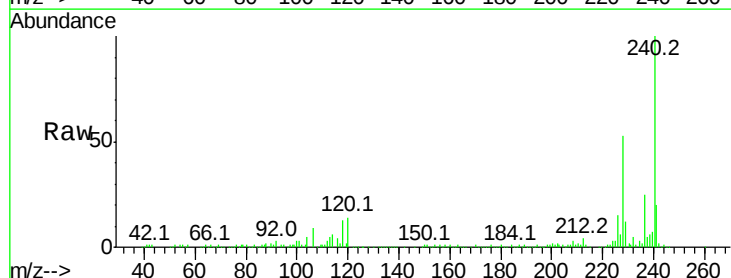
Tgt Ion:240 Resp: 211197

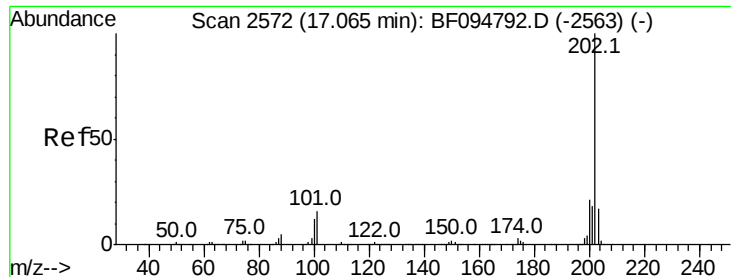
Ion Ratio Lower Upper

240 100

120 13.7 5.8 8.8#

236 24.7 20.5 30.7





#77

Pvrene

Concen: 42.68 ng

RT: 17.04 min Scan# 2568

Delta R.T. -0.02 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Instrument :

BNA_F

ClientSampleId :

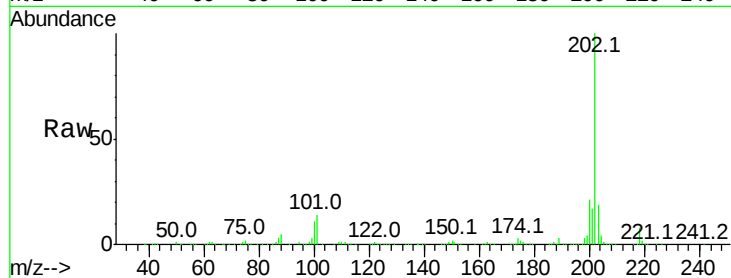
Tot Ion:202 Resp: 674173

Ion Ratio Lower Upper

202 100

200 21.1 17.6 26.4

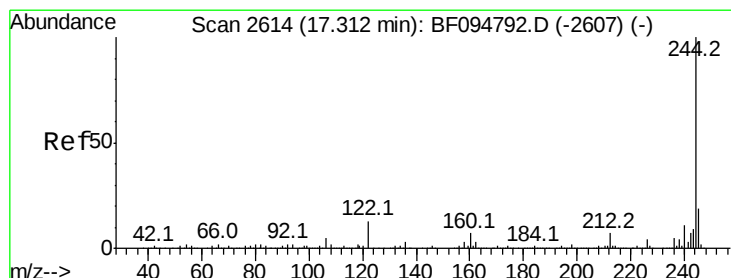
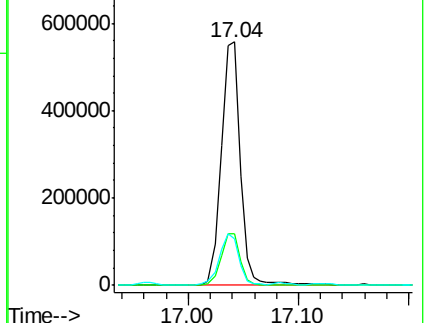
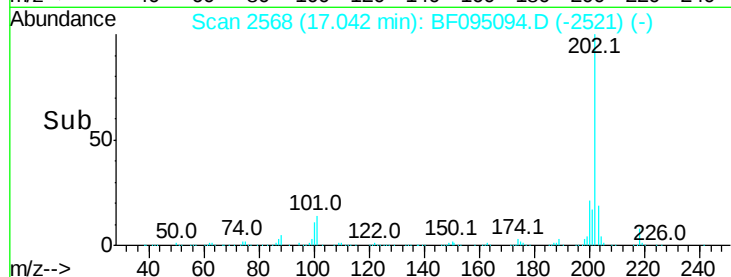
203 19.3 14.4 21.6



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: 88.58 ng

RT: 17.28 min Scan# 2609

Delta R.T. -0.03 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

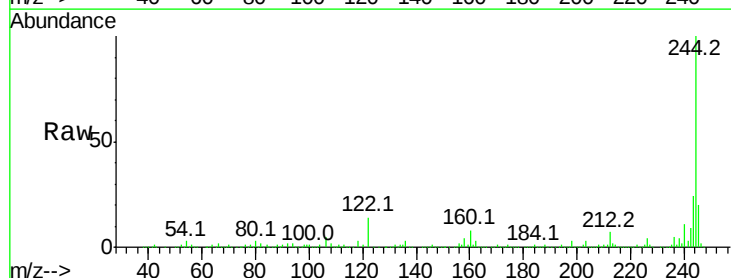
Tgt Ion:244 Resp: 849327

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

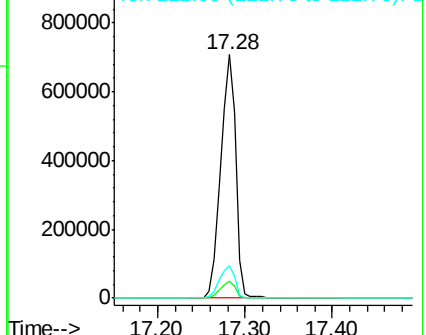
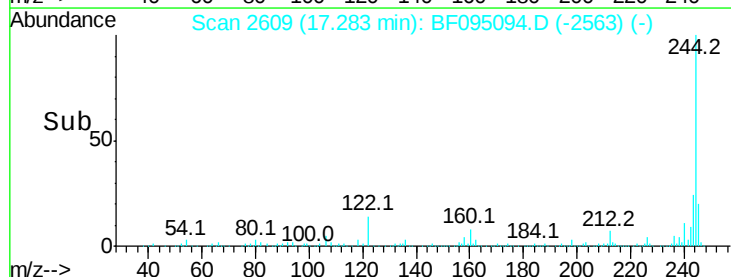
122 13.5 10.3 15.5

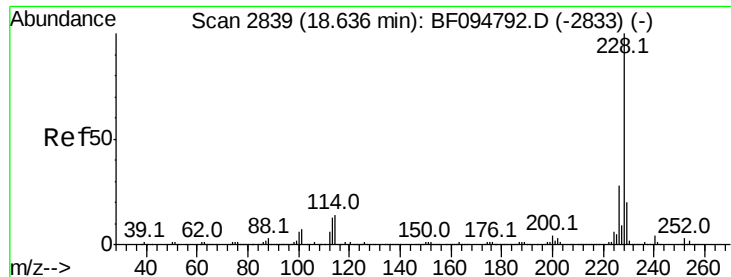


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 30.15 ng

RT: 18.61 min Scan# 2835

Delta R.T. -0.02 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Instrument :

BNA_F

ClientSampleId :

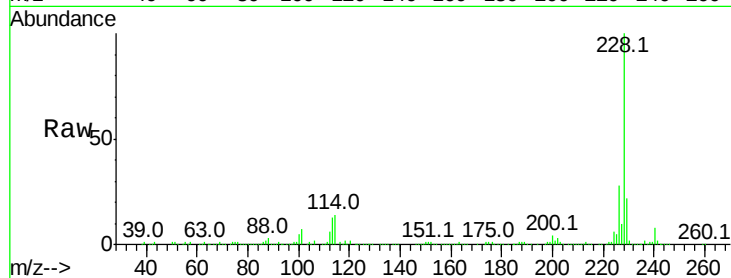
Tot Ion:228 Resp: 370611

Ion Ratio Lower Upper

228 100

226 27.5 22.6 33.8

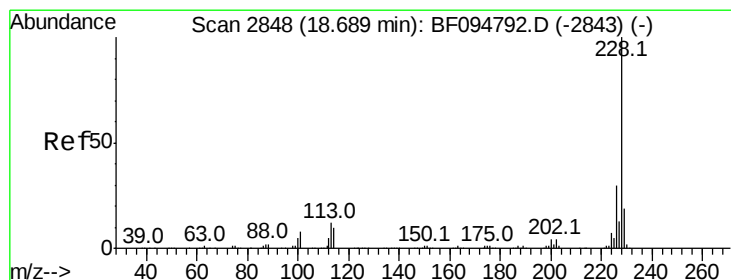
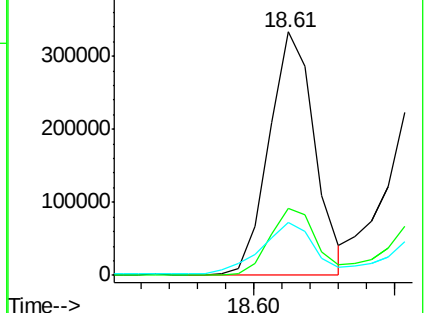
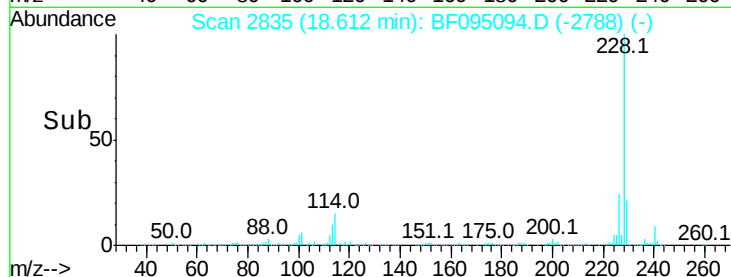
229 21.6 16.3 24.5



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: 28.21 ng

RT: 18.66 min Scan# 2843

Delta R.T. -0.03 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

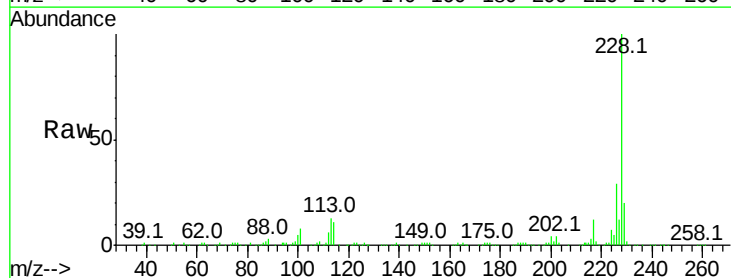
Tgt Ion:228 Resp: 335282

Ion Ratio Lower Upper

228 100

226 29.0 24.9 37.3

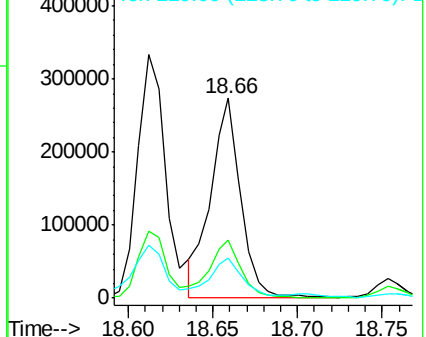
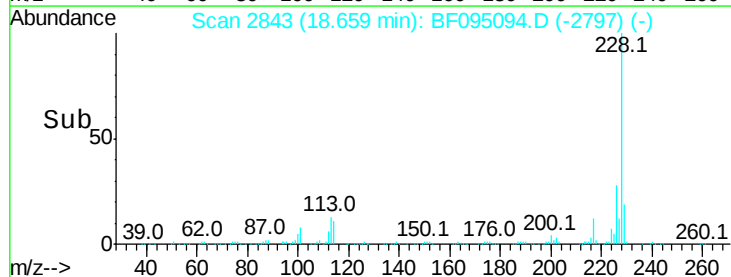
229 19.9 15.8 23.6

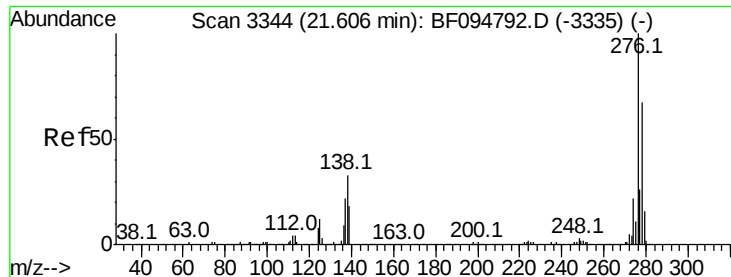


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

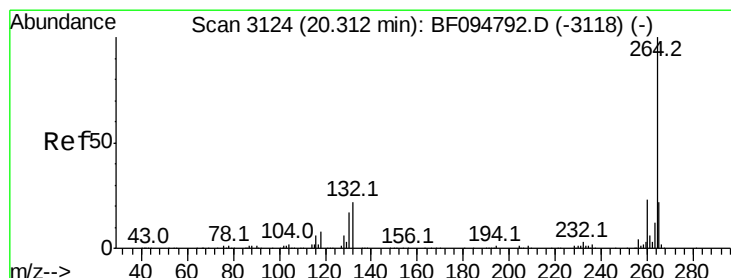
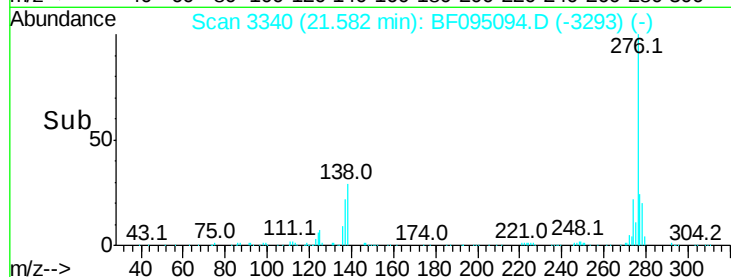
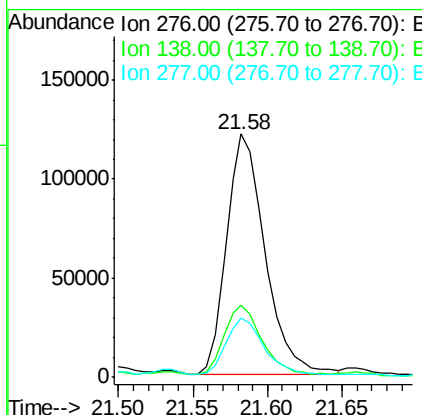
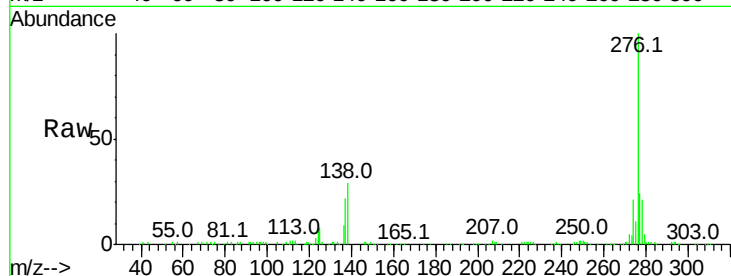




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 22.71 ng
 RT: 21.58 min Scan# 3340
 Delta R.T. -0.02 min
 Lab File: BF095094.D
 Acq: 11 May 2017 22:49

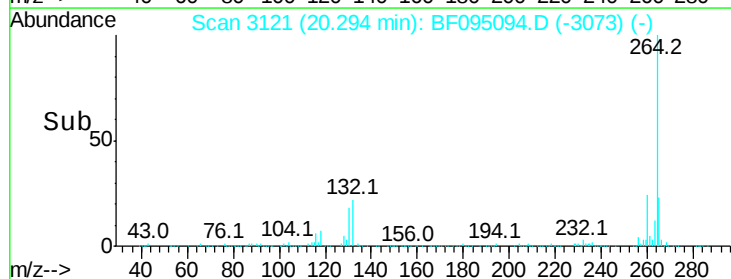
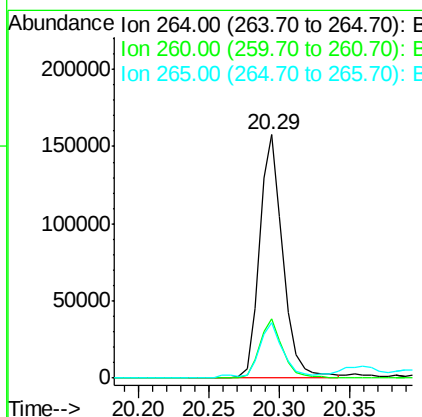
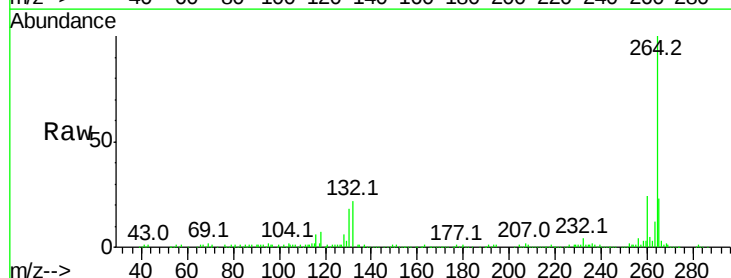
Instrument :
 BNA_F
 ClientSampleId :

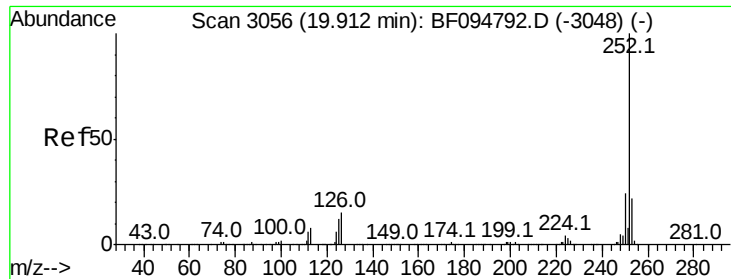
Tot Ion	Ratio	Lower	Upper
276	100		
138	28.2	27.8	41.6
277	22.9	20.2	30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 20.29 min Scan# 3121
 Delta R.T. -0.02 min
 Lab File: BF095094.D
 Acq: 11 May 2017 22:49

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	22.6	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 49.83 ng

RT: 19.89 min Scan# 3052

Delta R.T. -0.02 min

Lab File: BF095094.D

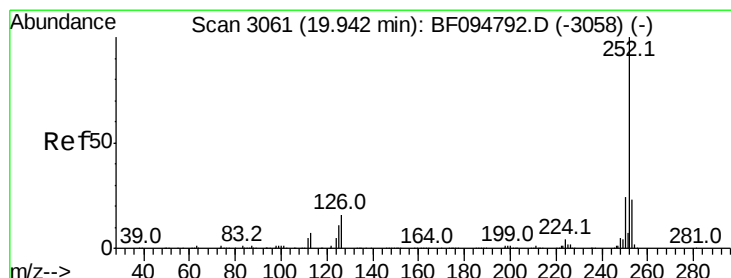
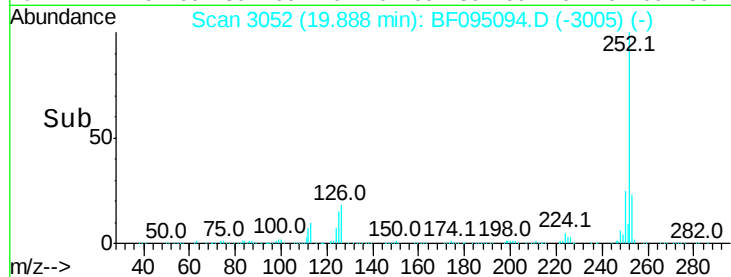
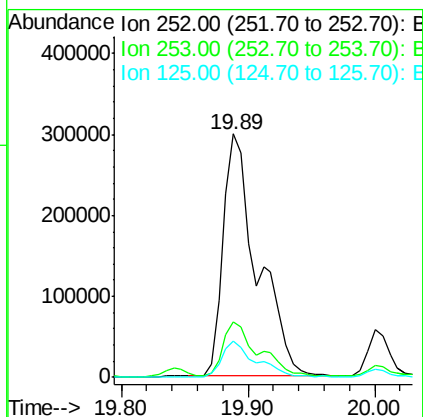
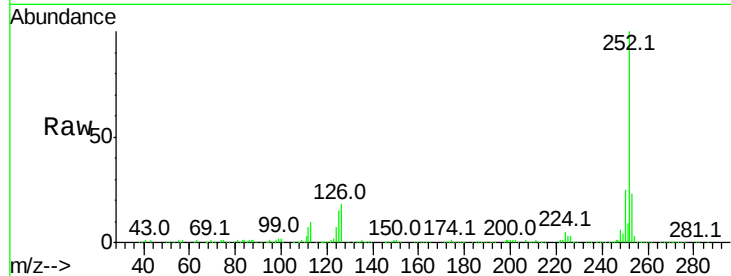
Acq: 11 May 2017 22:49

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	252	Resp:	565736
Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1
125	14.8	9.8	14.8#



#88

Benzo(k)fluoranthene

Concen: 51.66 ng

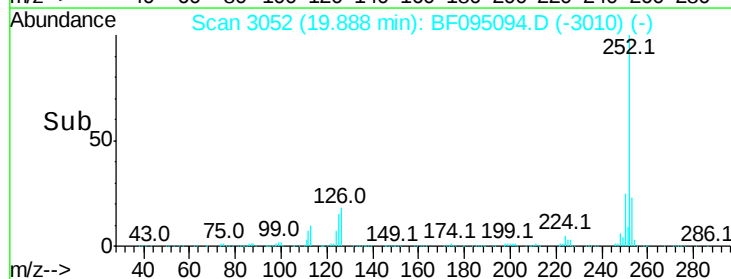
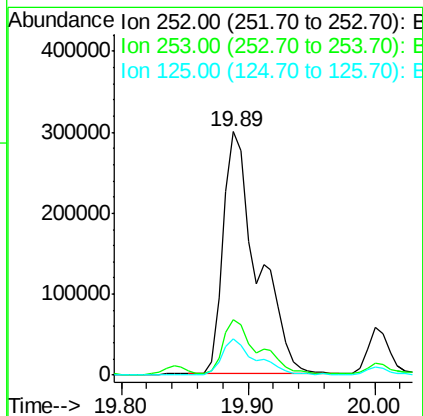
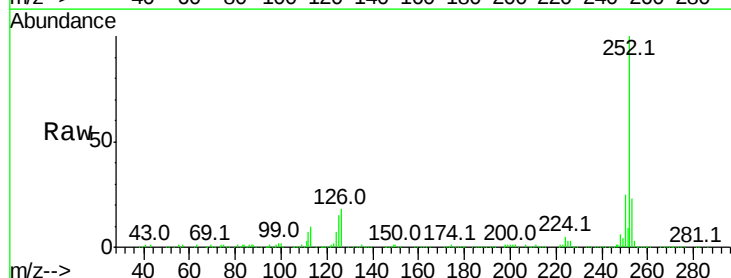
RT: 19.89 min Scan# 3052

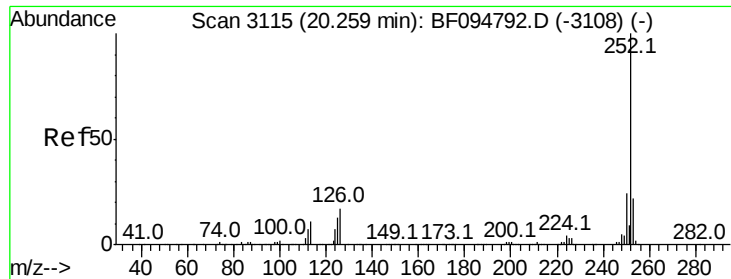
Delta R.T. -0.05 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Tgt Ion:	252	Resp:	565736
Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.4	27.6
125	14.8	13.1	19.7





#89

Benzo(a)pyrene

Concen: 31.63 ng

RT: 20.24 min Scan# 3111

Delta R.T. -0.02 min

Lab File: BF095094.D

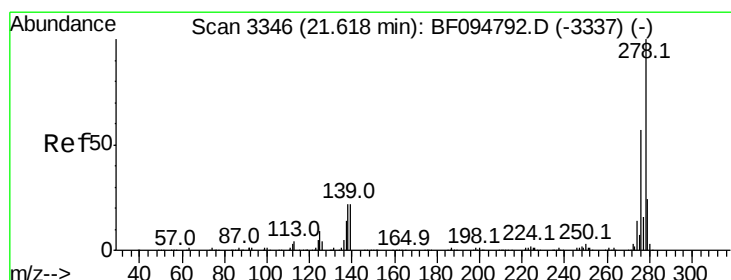
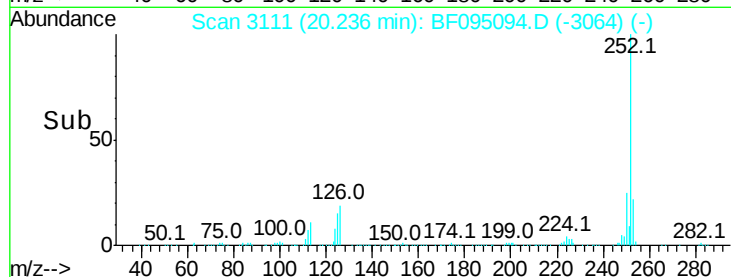
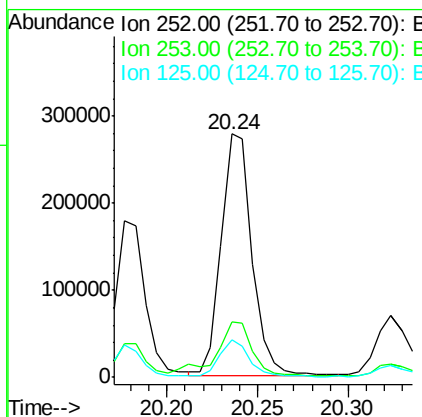
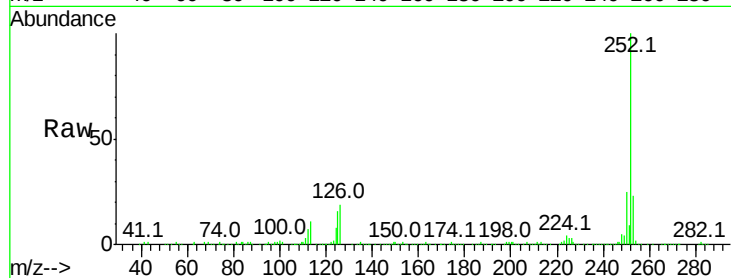
Acq: 11 May 2017 22:49

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	252	Resp:	331309
Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	15.6	11.0	16.4



#90

Dibenzo(a,h)anthracene

Concen: 5.51 ng

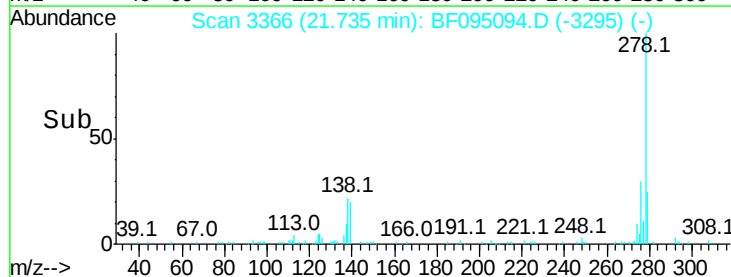
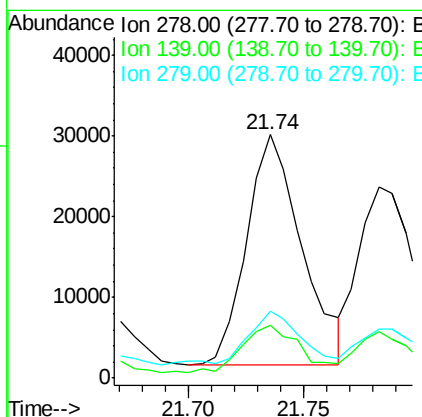
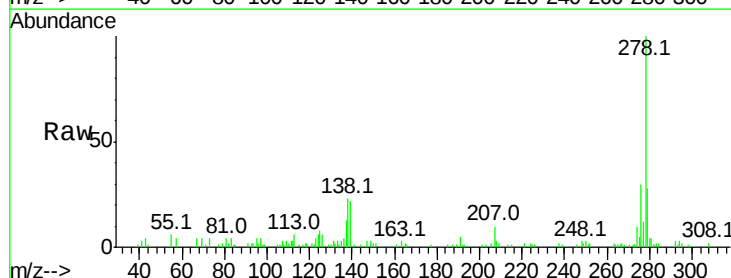
RT: 21.74 min Scan# 3366

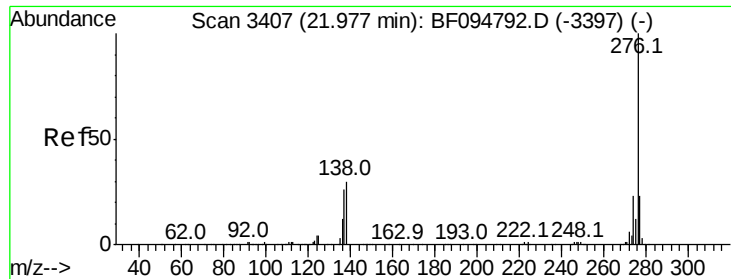
Delta R.T. 0.12 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Tgt Ion:	278	Resp:	47663
Ion	Ratio	Lower	Upper
278	100		
139	21.9	16.6	24.8
279	27.6	19.3	28.9

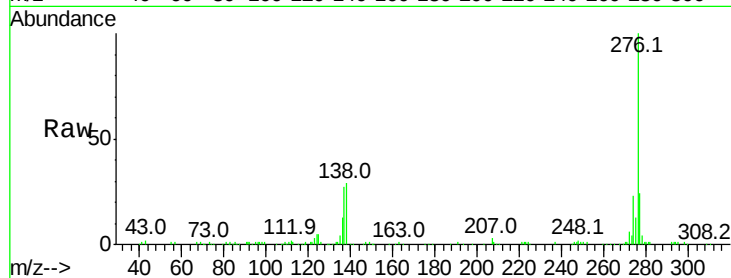




#91
 Benzo(a,h,i)perylene
 Concen: 24.11 ng
 RT: 21.96 min Scan# 3404
 Delta R.T. -0.02 min
 Lab File: BF095094.D
 Acq: 11 May 2017 22:49

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.6	28.0
138	28.8	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

