

Data Path : Z:\HPCHEM1\BNA F\Data\BF051517\
 Data File : BF095152.D
 Acq On : 16 May 2017 10:55
 Operator : SJ/MA
 Sample : I3140-15DL 20X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 16 16:02:57 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	66048	20.00	ng	0.05
21) Naphthalene-d8	9.80	136	285288	20.00	ng	0.04
38) Acenaphthene-d10	12.62	164	141195	20.00	ng	0.04
63) Phenanthrene-d10	15.03	188	235016	20.00	ng	0.05
75) Chrysene-d12	18.70	240	156369	20.00	ng	0.05
86) Perylene-d12	20.38	264	128587	20.00	ng	0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.84	112	2921	0.74	ng	0.16
7) Phenol-d6	7.41	99	18115	3.81	ng	0.14
23) Nitrobenzene-d5	8.72	82	12051	2.66	ng	0.08
41) 2,4,6-Tribromophenol	13.94	330	4972	4.30	ng	0.06
44) 2-Fluorobiphenyl	11.57	172	40492	4.13	ng	0.04
78) Terphenyl-d14	17.35	244	25754	3.63	ng	0.04

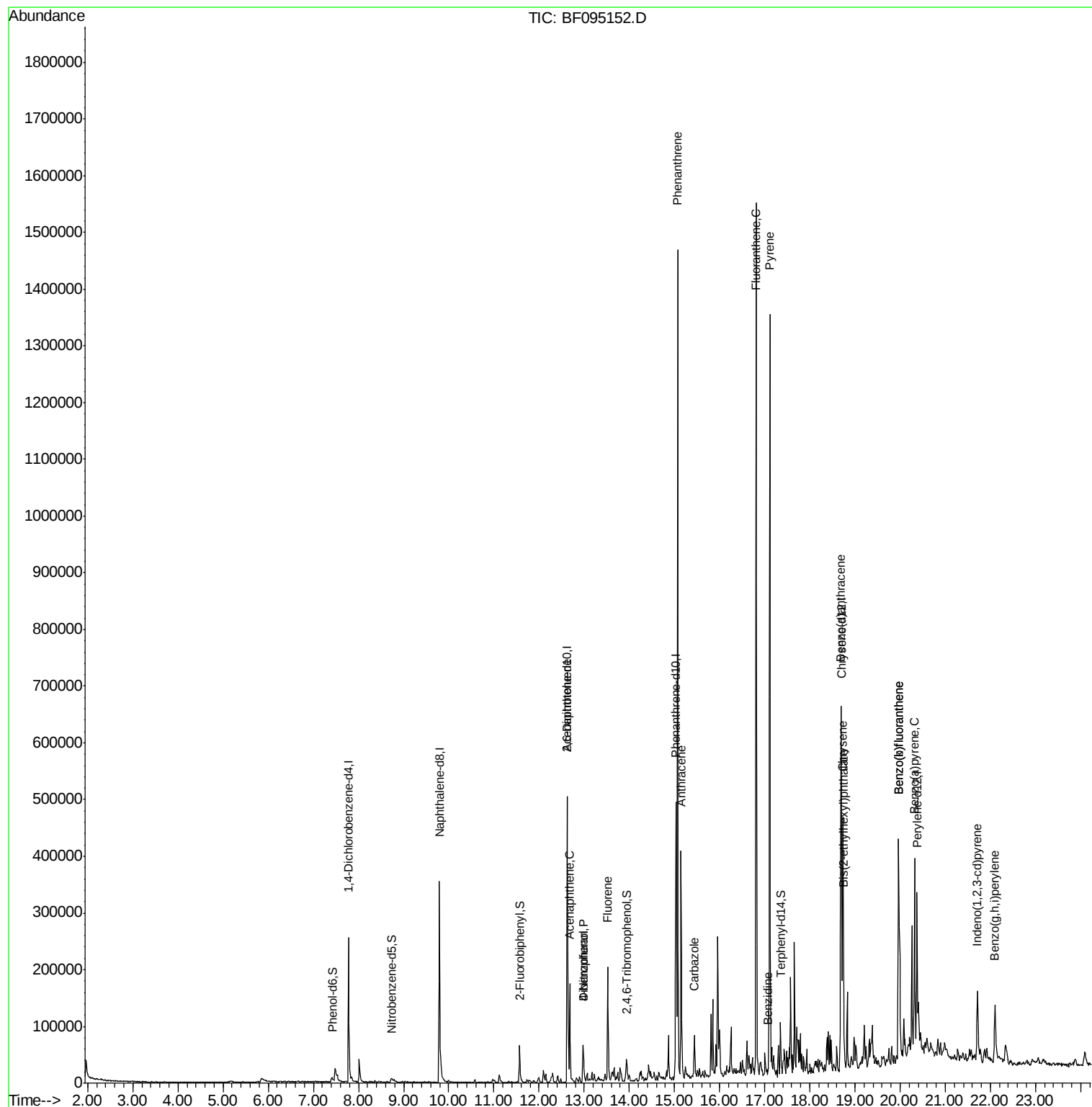
Target Compounds						Qvalue
50) 2,6-Dinitrotoluene	12.62	165	14977	6.33	ng	# 31
51) Acenaphthene	12.68	154	54769	6.10	ng	96
54) Dibenzofuran	12.98	168	50713	4.08	ng	# 97
55) 4-Nitrophenol	12.98	139	18355	12.04	ng	# 27
57) Fluorene	13.52	166	86532	8.01	ng	98
70) Phenanthrene	15.07	178	766586	56.77	ng	98
71) Anthracene	15.15	178	236942	17.18	ng	96
72) Carbazole	15.44	167	53895	4.29	ng	96
74) Fluoranthene	16.81	202	803548	58.01	ng	98
76) Benzidine	17.07	184	645	6.72	ng	# 62
77) Pyrene	17.11	202	626521	53.57	ng	96
80) Benzo(a)anthracene	18.69	228	228442	25.10	ng	98
82) Chrysene	18.73	228	199164	22.63	ng	98
83) Bis(2-ethylhexyl)phthalate	18.75	149	25304	3.26	ng	97
85) Indeno(1,2,3-cd)pyrene	21.71	276	80234	11.23	ng	93
87) Benzo(b)fluoranthene	19.97	252	276728	34.83	ng	99
88) Benzo(k)fluoranthene	19.97	252	276728	36.11	ng	97
89) Benzo(a)pyrene	20.32	252	152146	20.75	ng	96
91) Benzo(a,h,i)perylene	22.10	276	80417	13.53	ng	98

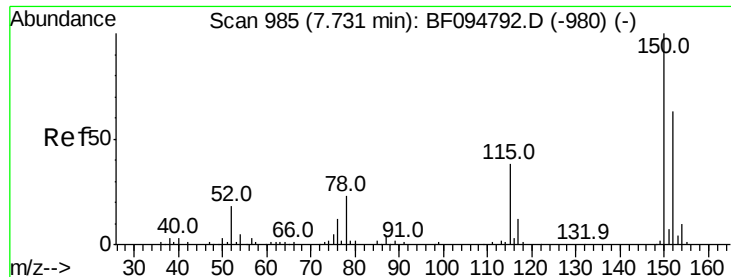
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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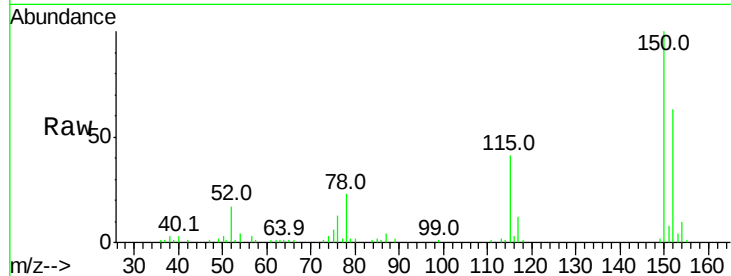


#1

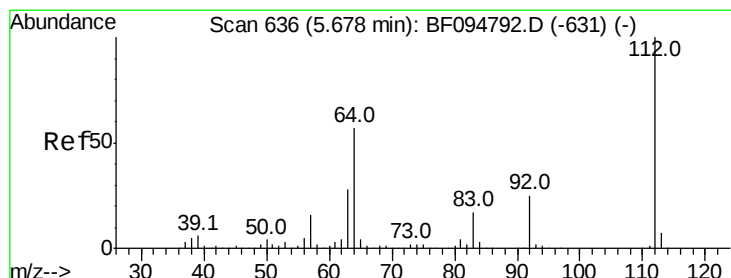
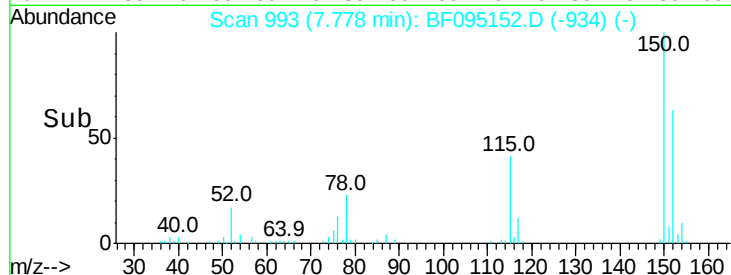
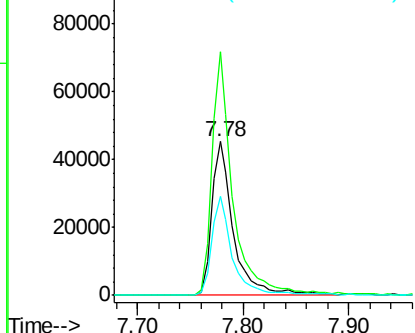
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.78 min Scan# 993
Delta R.T. 0.05 min
Lab File: BF095152.D
Acq: 16 May 2017 10:55

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 66048
Ion Ratio Lower Upper
152 100
150 158.3 126.2 189.2
115 64.4 52.2 78.2



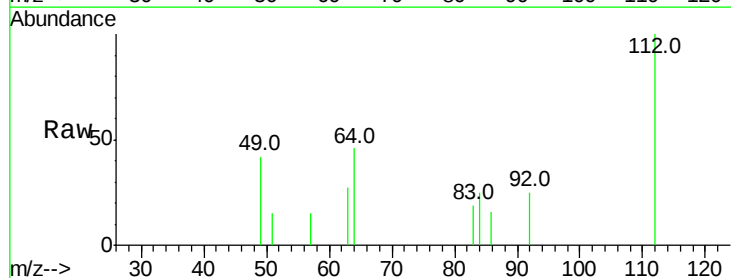
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



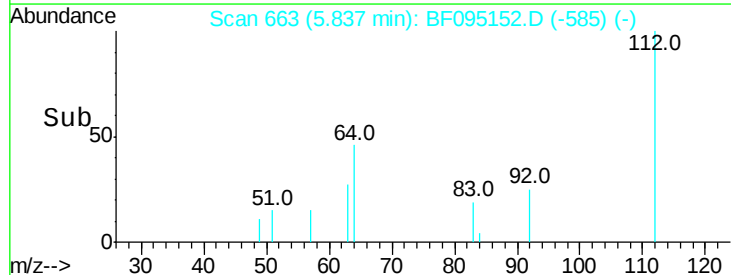
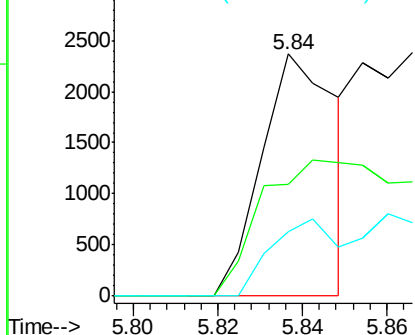
#5

2-Fluorophenol
Concen: 0.74 ng
RT: 5.84 min Scan# 663
Delta R.T. 0.16 min
Lab File: BF095152.D
Acq: 16 May 2017 10:55

Tgt Ion:112 Resp: 2921
Ion Ratio Lower Upper
112 100
64 46.2 46.0 69.0
63 26.7 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: 3.81 ng

RT: 7.41 min Scan# 931

Delta R.T. 0.14 min

Lab File: BF095152.D

Acq: 16 May 2017 10:55

Instrument :

BNA_F

ClientSampleId :

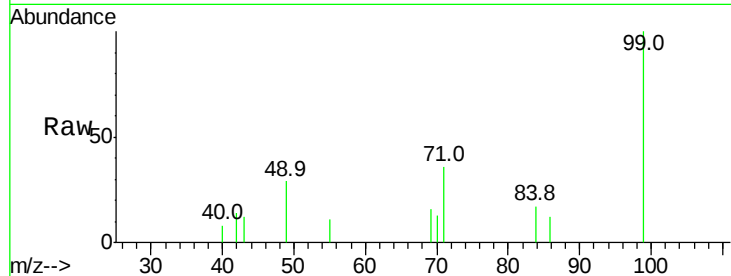
Tot Ion: 99 Resp: 18115

Ion Ratio Lower Upper

99 100

42 13.8 13.5 20.3

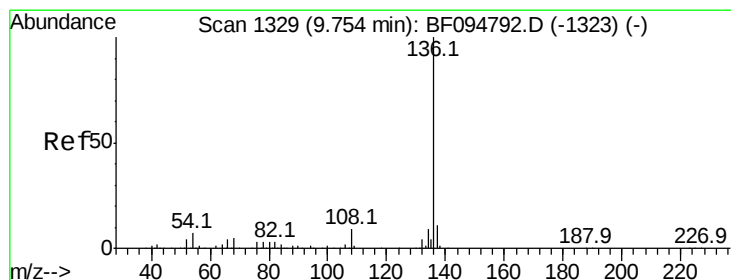
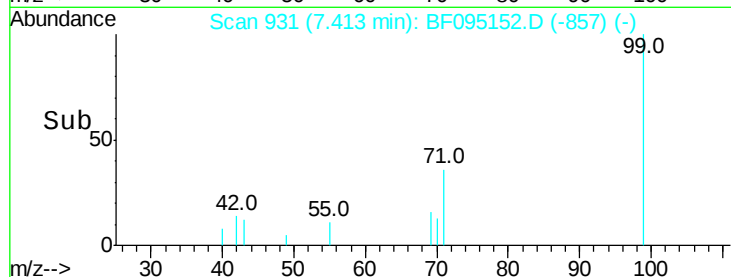
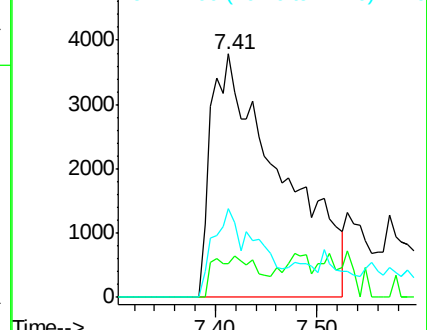
71 36.4 24.5 36.7



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: BF095152.D

Acq: 16 May 2017 10:55

Tgt Ion: 136 Resp: 285288

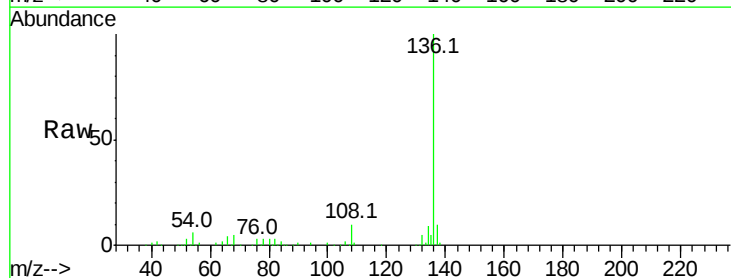
Ion Ratio Lower Upper

136 100

137 10.3 8.5 12.7

54 6.4 4.9 7.3

68 4.9 4.1 6.1

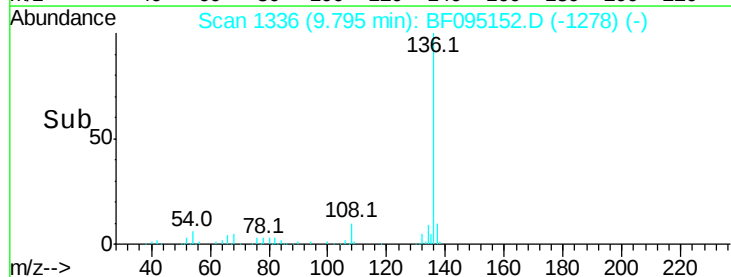
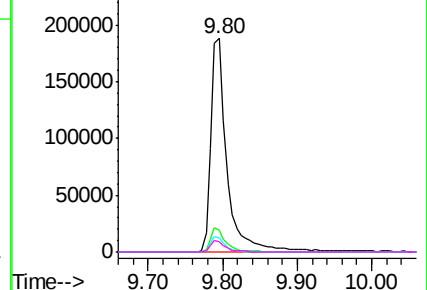


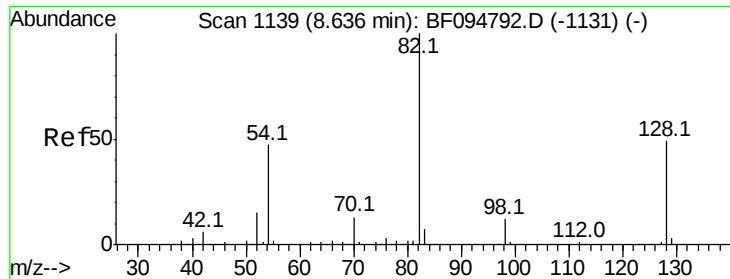
Abundance Ion 136.00 (135.70 to 136.70): E

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

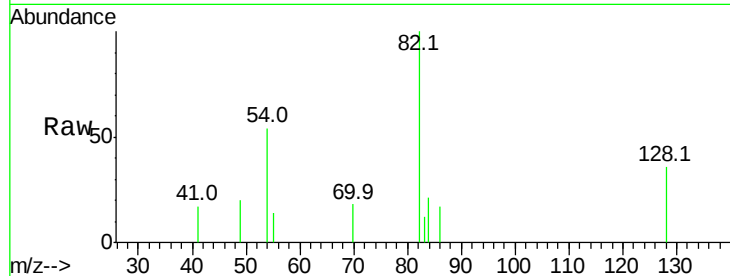




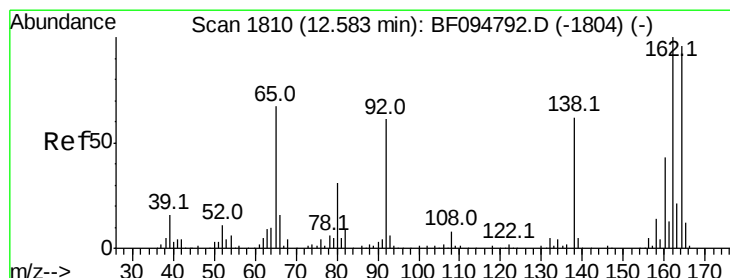
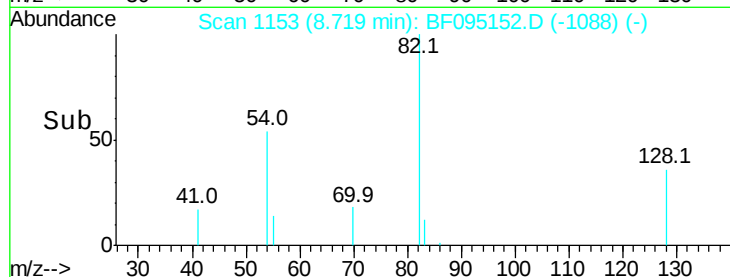
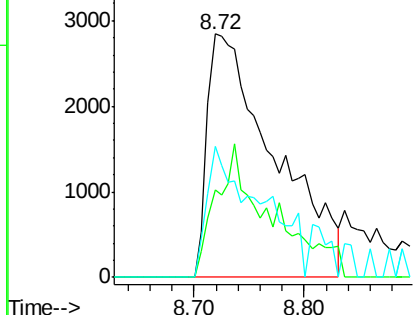
#23
 Nitrobenzene-d5
 Concen: 2.66 ng
 RT: 8.72 min Scan# 1153
 Delta R.T. 0.08 min
 Lab File: BF095152.D
 Acq: 16 May 2017 10:55

Instrument :
 BNA_F
 ClientSampleID :

Tot Ion: 82 Resp: 12051
 Ion Ratio Lower Upper
 82 100
 128 36.0 34.0 51.0
 54 53.9 42.2 63.2

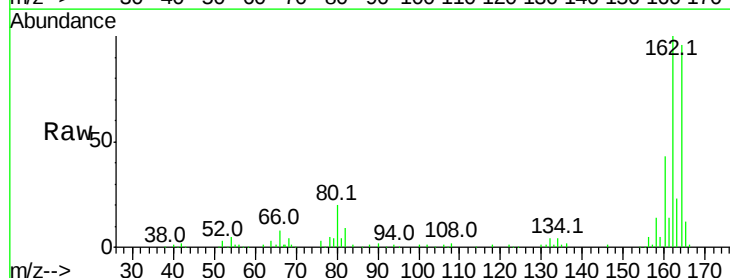


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

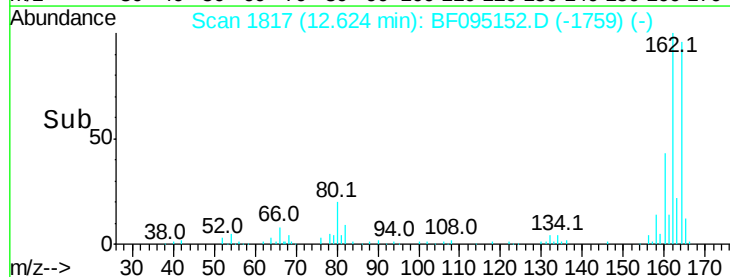
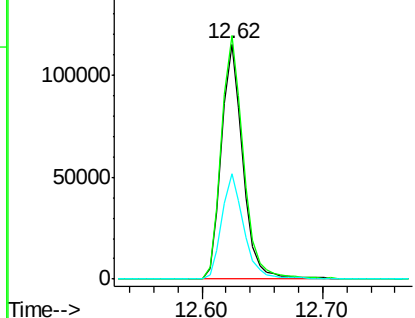


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.62 min Scan# 1817
 Delta R.T. 0.04 min
 Lab File: BF095152.D
 Acq: 16 May 2017 10:55

Tgt Ion:164 Resp: 141195
 Ion Ratio Lower Upper
 164 100
 162 103.6 82.6 123.8
 160 44.8 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

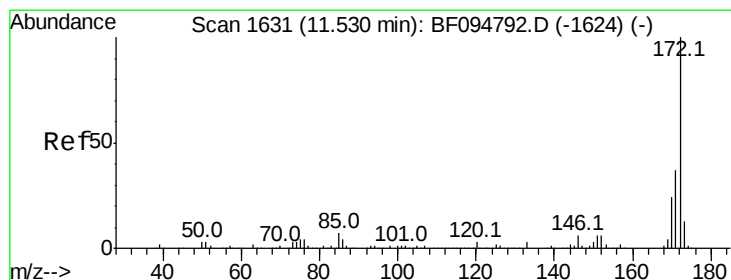
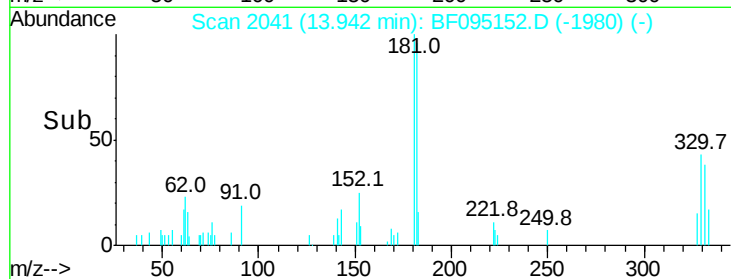
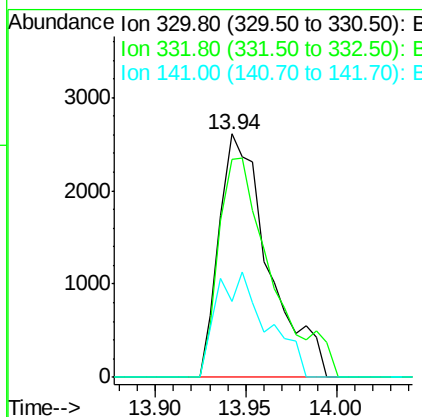
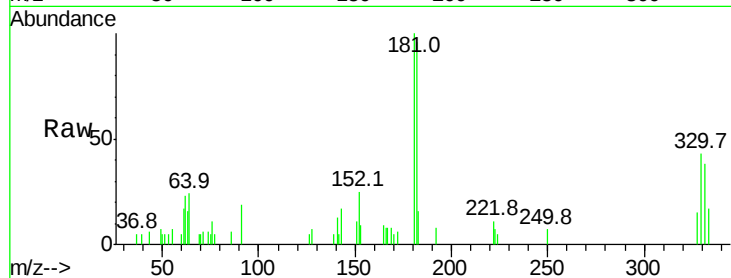




#41
 2,4,6-Tribromophenol
 Concen: 4.30 ng
 RT: 13.94 min Scan# 2041
 Delta R.T. 0.06 min
 Lab File: BF095152.D
 Acq: 16 May 2017 10:55

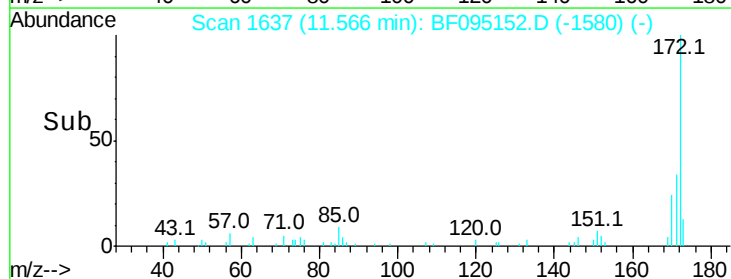
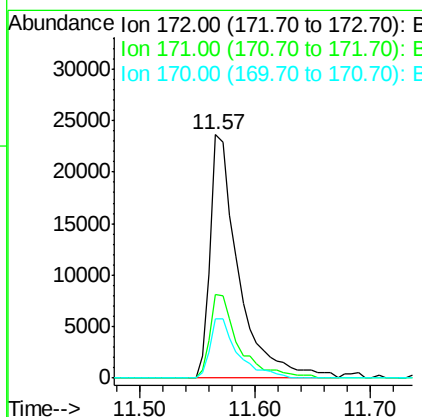
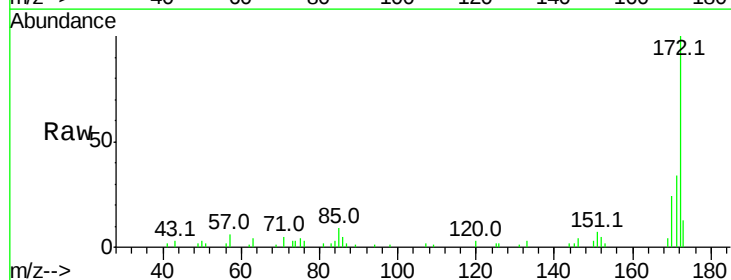
Instrument :
 BNA_F
 ClientSampleId :

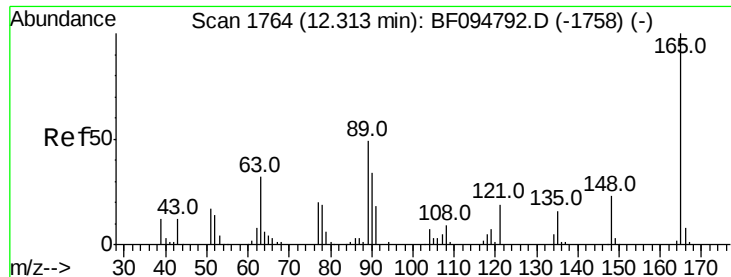
Tot Ion:330 Resp: 4972
 Ion Ratio Lower Upper
 330 100
 332 96.1 76.6 115.0
 141 44.0 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 4.13 ng
 RT: 11.57 min Scan# 1637
 Delta R.T. 0.04 min
 Lab File: BF095152.D
 Acq: 16 May 2017 10:55

Tgt Ion:172 Resp: 40492
 Ion Ratio Lower Upper
 172 100
 171 34.5 29.6 44.4
 170 24.1 19.8 29.8

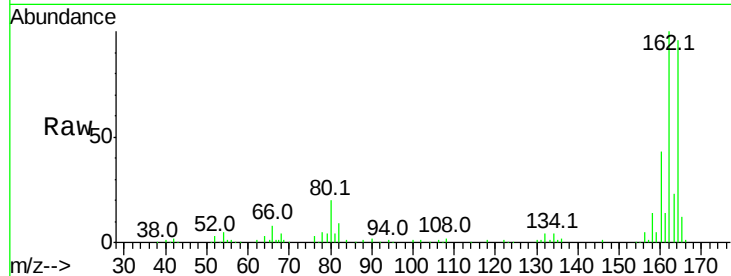




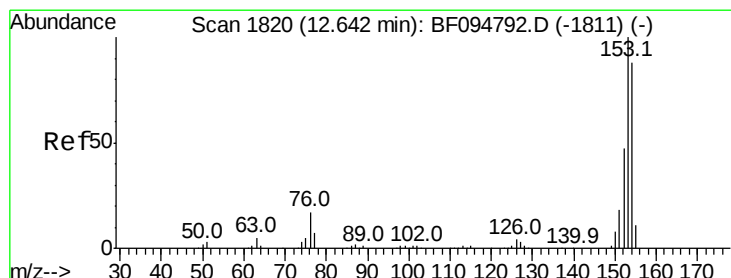
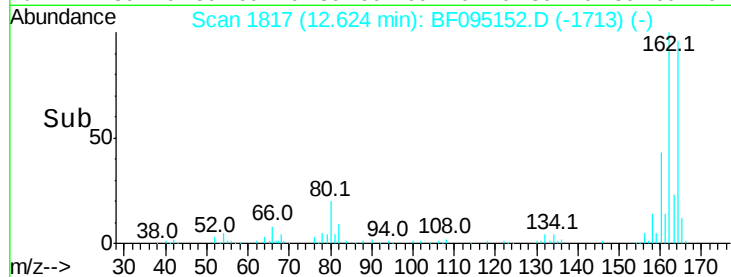
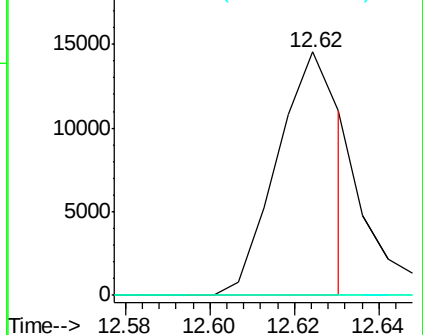
#50
 2,6-Dinitrotoluene
 Concen: 6.33 ng
 RT: 12.62 min Scan# 1817
 Delta R.T. 0.31 min
 Lab File: BF095152.D
 Acq: 16 May 2017 10:55

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.3	51.5#
89	0.0	37.1	55.7#

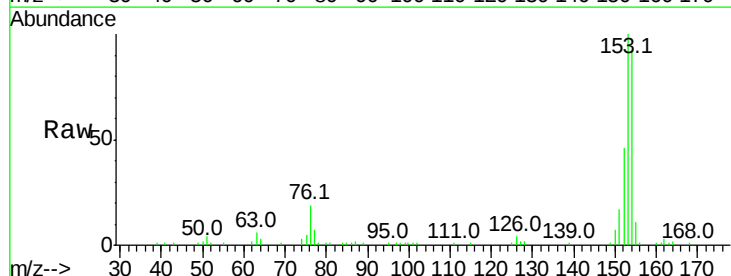


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

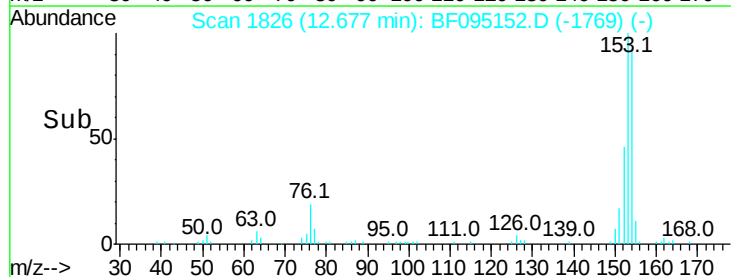
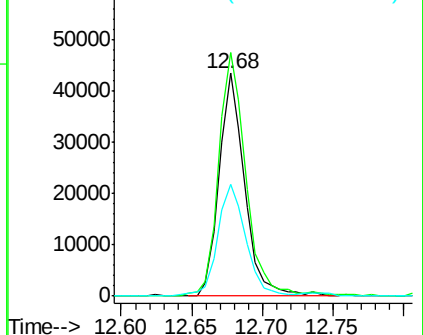


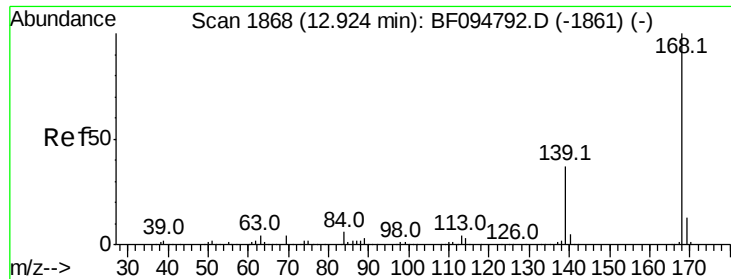
#51
 Acenaphthene
 Concen: 6.10 ng
 RT: 12.68 min Scan# 1826
 Delta R.T. 0.04 min
 Lab File: BF095152.D
 Acq: 16 May 2017 10:55

Tgt Ion	Ratio	Lower	Upper
154	100		
153	109.2	90.5	135.7
152	50.2	43.6	65.4



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 4.08 ng

RT: 12.98 min Scan# 1877

Delta R.T. 0.05 min

Lab File: BF095152.D

Acq: 16 May 2017 10:55

Instrument :

BNA_F

ClientSampleId :

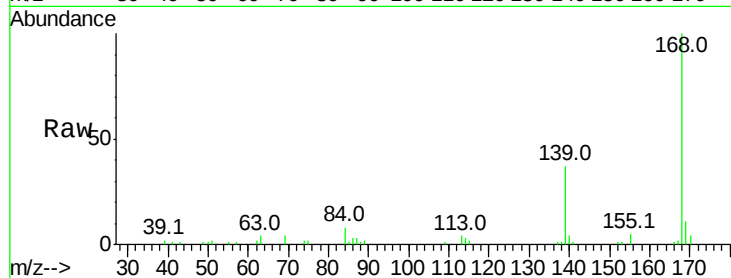
Tot Ion:168 Resp: 50713

Ion Ratio Lower Upper

168 100

139 37.3 30.6 45.8

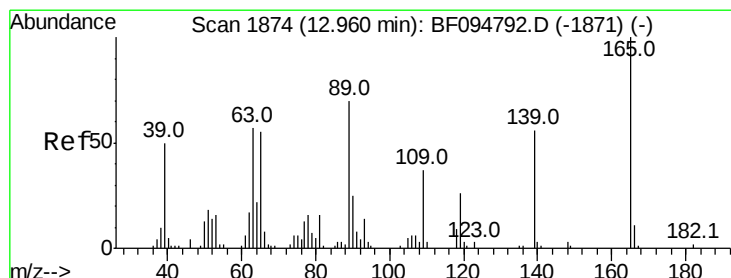
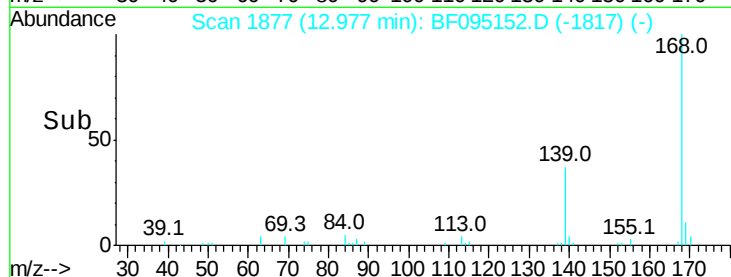
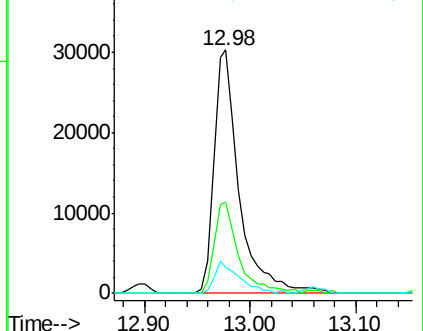
169 10.7 10.8 16.2#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 12.04 ng

RT: 12.98 min Scan# 1877

Delta R.T. 0.02 min

Lab File: BF095152.D

Acq: 16 May 2017 10:55

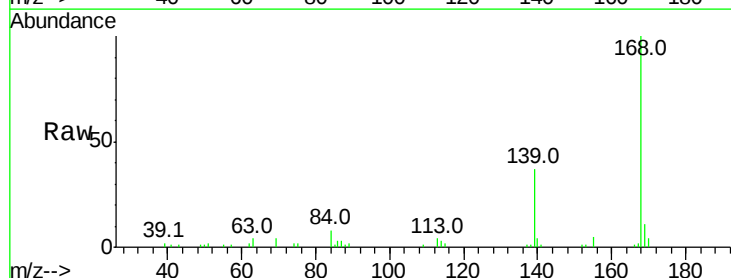
Tgt Ion:139 Resp: 18355

Ion Ratio Lower Upper

139 100

109 2.7 34.1 74.1#

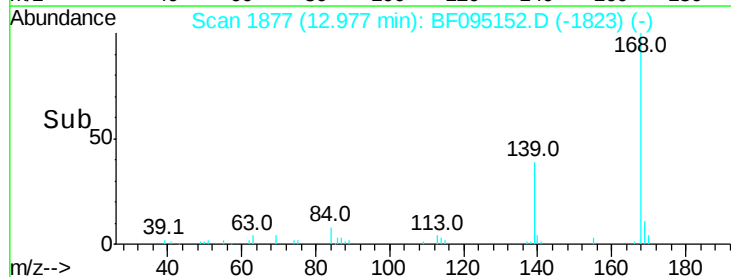
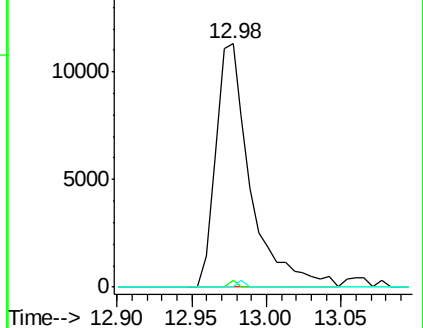
65 0.0 31.4 71.4#

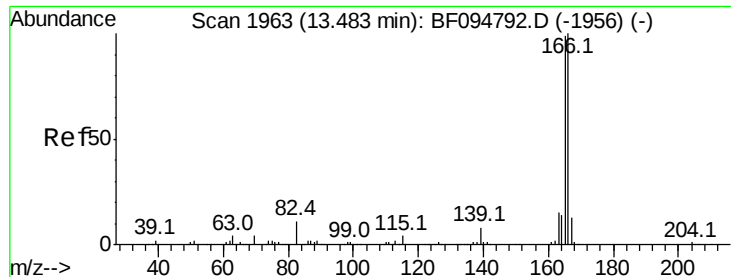


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

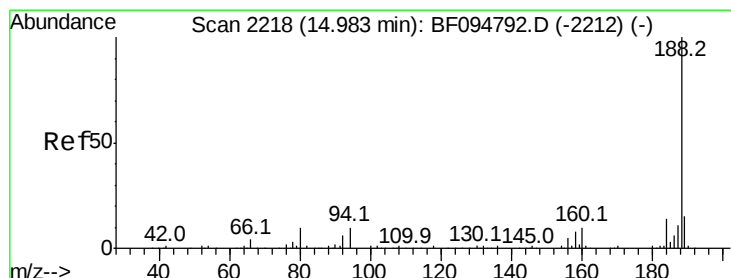
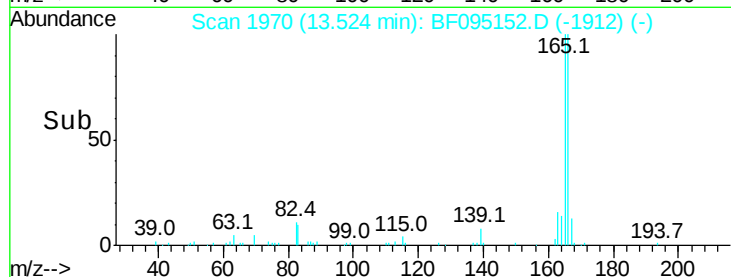
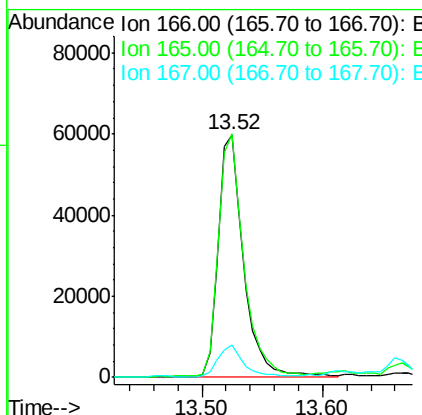
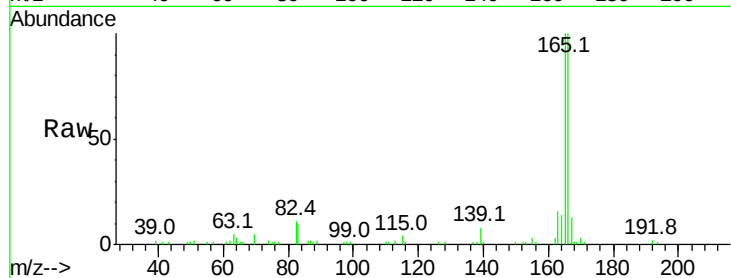




#57
Fluorene
 Concen: 8.01 ng
 RT: 13.52 min Scan# 1970
 Delta R.T. 0.04 min
 Lab File: BF095152.D
 Acq: 16 May 2017 10:55

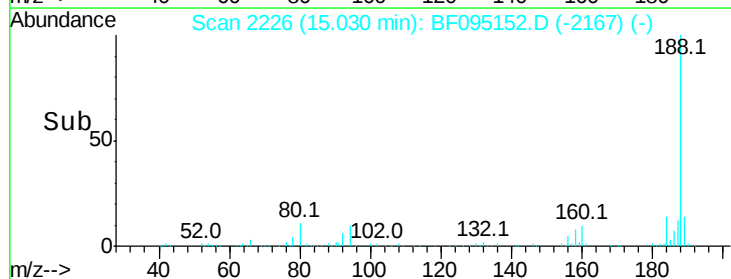
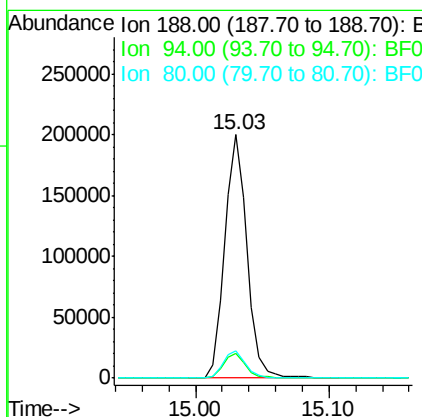
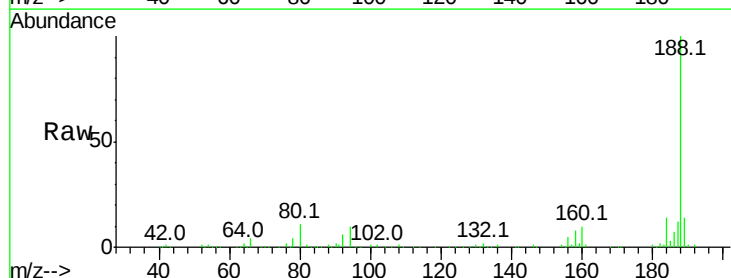
Instrument :
 BNA_F
 ClientSampleId :

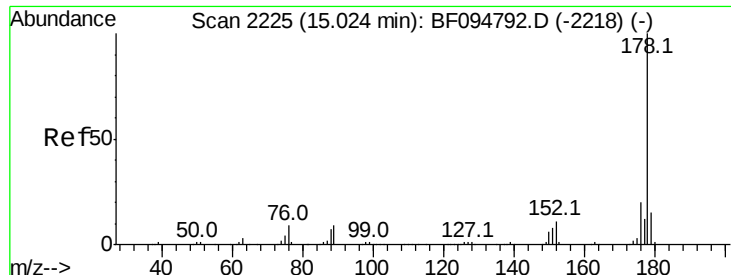
Tot Ion:166 Resp: 86532
 Ion Ratio Lower Upper
 166 100
 165 100.3 78.8 118.2
 167 13.5 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 15.03 min Scan# 2226
 Delta R.T. 0.05 min
 Lab File: BF095152.D
 Acq: 16 May 2017 10:55

Tgt Ion:188 Resp: 235016
 Ion Ratio Lower Upper
 188 100
 94 10.0 9.4 14.2
 80 11.2 10.2 15.2





#70

Phenanthrene

Concen: 56.77 ng

RT: 15.07 min Scan# 2233

Delta R.T. 0.05 min

Lab File: BF095152.D

Acq: 16 May 2017 10:55

Instrument :

BNA_F

ClientSampleId :

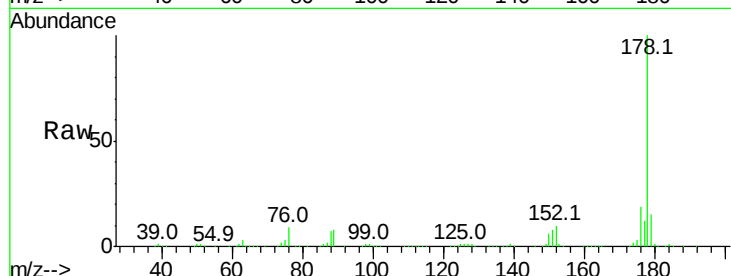
Tot Ion:178 Resp: 766586

Ion Ratio Lower Upper

178 100

176 19.1 16.2 24.4

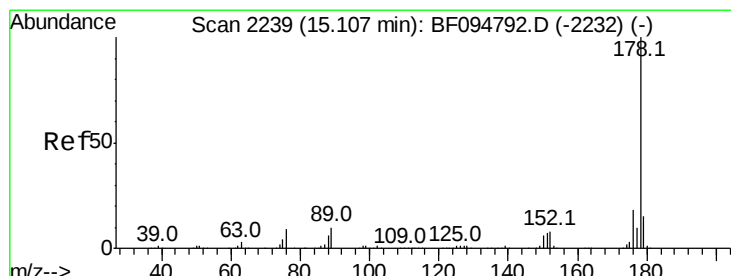
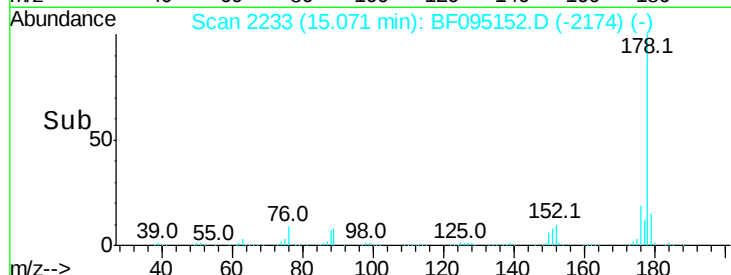
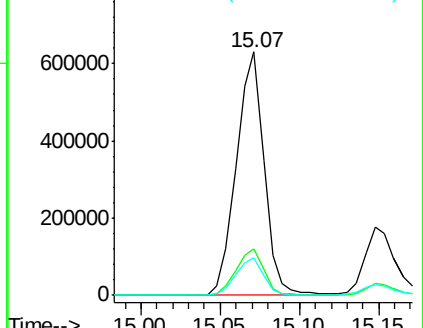
179 15.2 12.6 19.0



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: 17.18 ng

RT: 15.15 min Scan# 2246

Delta R.T. 0.04 min

Lab File: BF095152.D

Acq: 16 May 2017 10:55

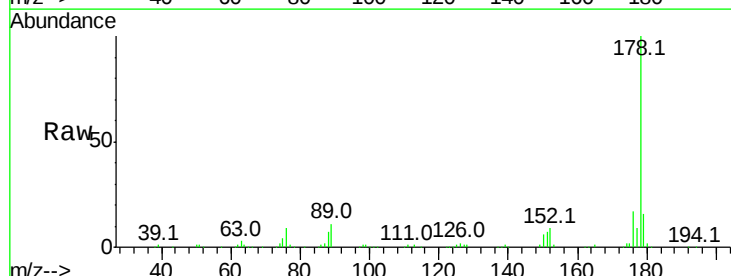
Tgt Ion:178 Resp: 236942

Ion Ratio Lower Upper

178 100

176 17.2 15.8 23.8

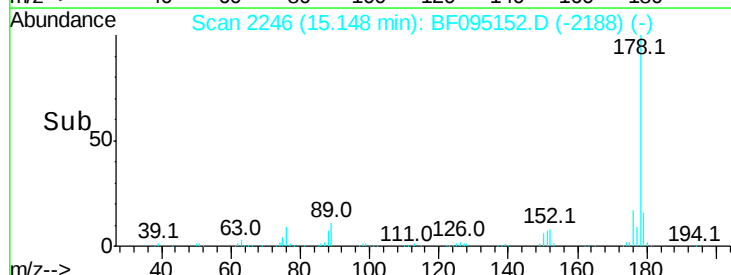
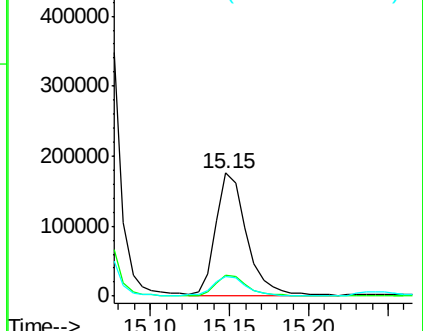
179 16.3 12.7 19.1

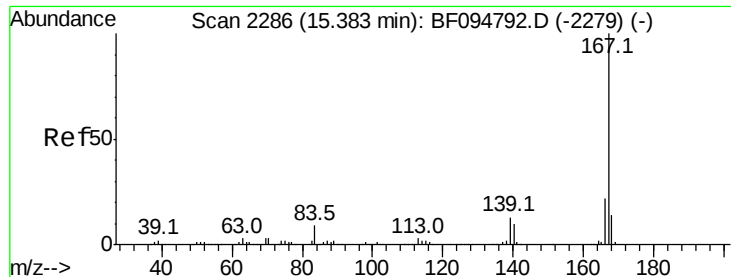


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.29 ng

RT: 15.44 min Scan# 2296

Delta R.T. 0.06 min

Lab File: BF095152.D

Acq: 16 May 2017 10:55

Instrument :

BNA_F

ClientSampleId :

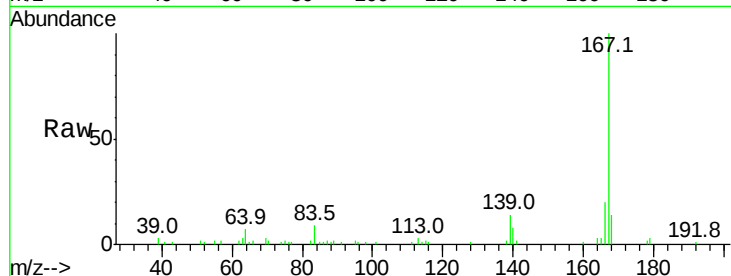
Tot Ion:167 Resp: 53895

Ion Ratio Lower Upper

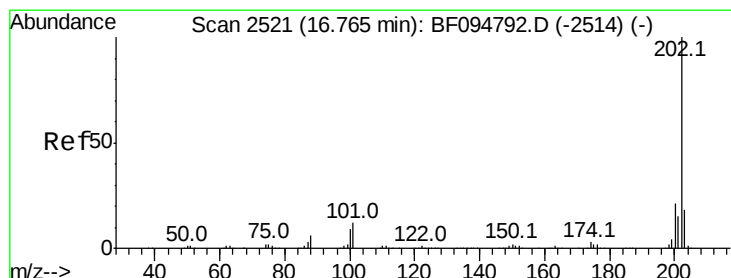
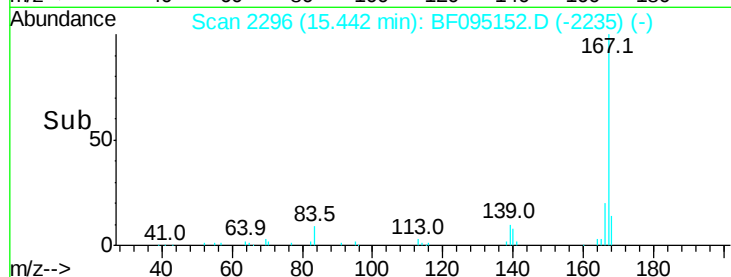
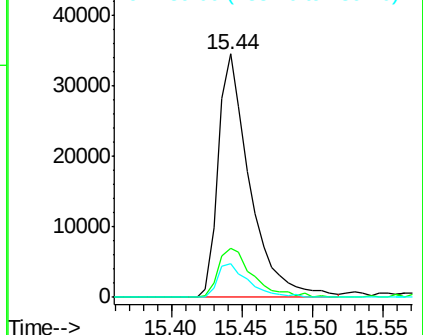
167 100

166 20.1 18.1 27.1

139 13.8 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: 58.01 ng

RT: 16.81 min Scan# 2529

Delta R.T. 0.05 min

Lab File: BF095152.D

Acq: 16 May 2017 10:55

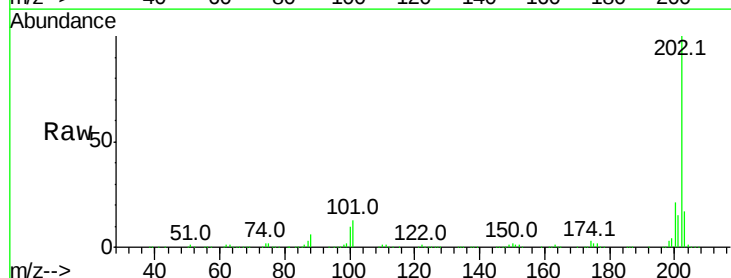
Tgt Ion:202 Resp: 803548

Ion Ratio Lower Upper

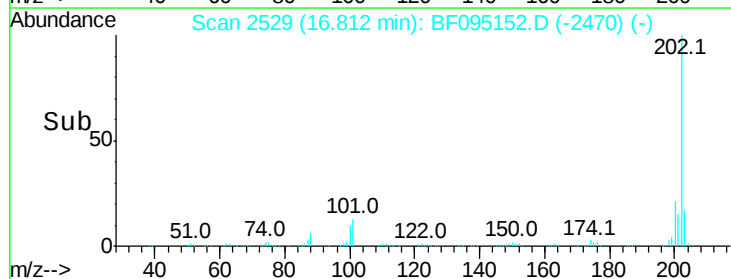
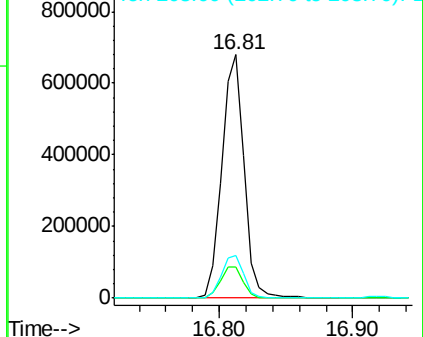
202 100

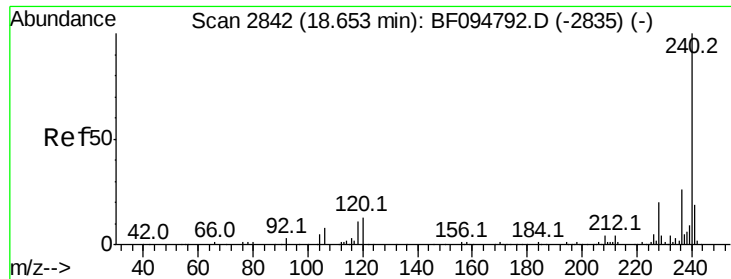
101 12.6 0.0 33.2

203 17.4 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: 18.70 min Scan# 2850

Delta R.T. 0.05 min

Lab File: BF095152.D

Acq: 16 May 2017 10:55

Instrument :

BNA_F

ClientSampleId :

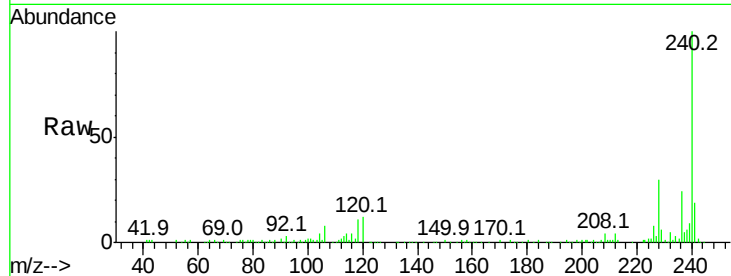
Tot Ion:240 Resp: 156369

Ion Ratio Lower Upper

240 100

120 12.3 5.8 8.8#

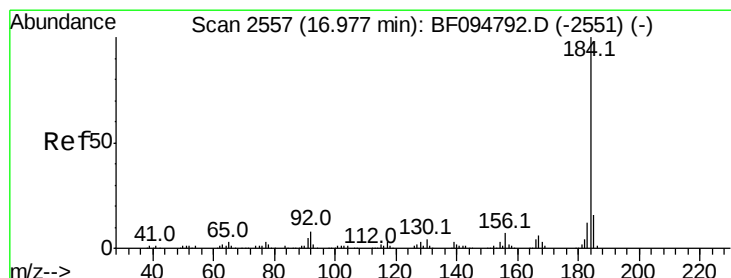
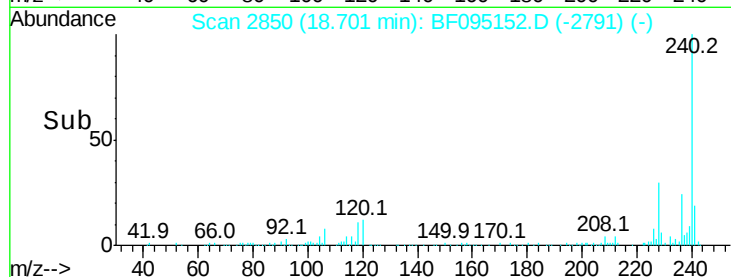
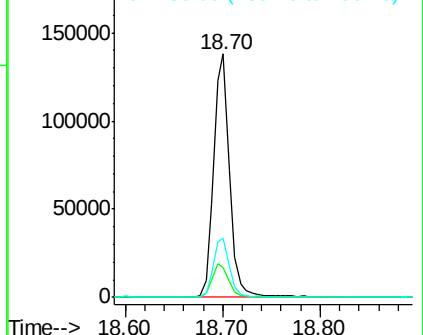
236 24.5 20.5 30.7



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



#76

Benzidine

Concen: 6.72 ng

RT: 17.07 min Scan# 2573

Delta R.T. 0.09 min

Lab File: BF095152.D

Acq: 16 May 2017 10:55

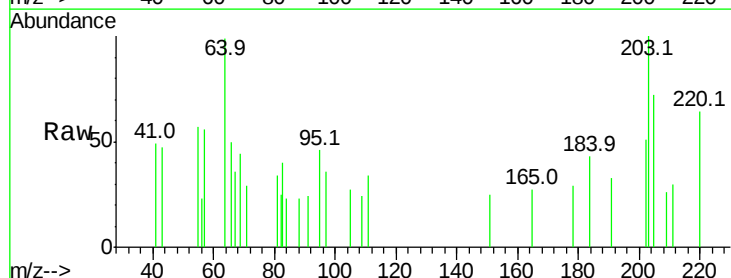
Tgt Ion:184 Resp: 645

Ion Ratio Lower Upper

184 100

185 0.0 15.5 23.3#

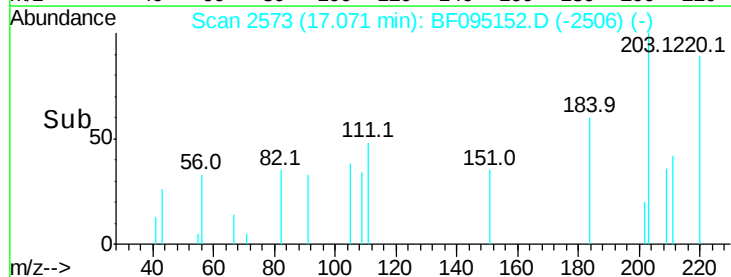
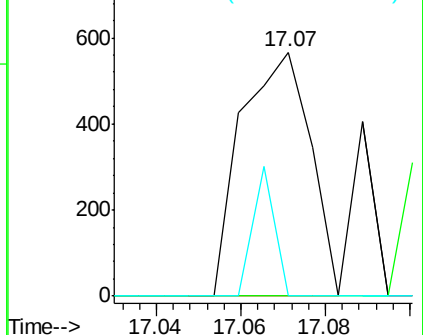
183 0.0 9.8 14.6#

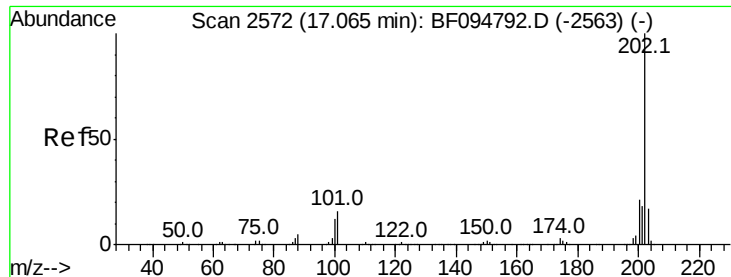


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

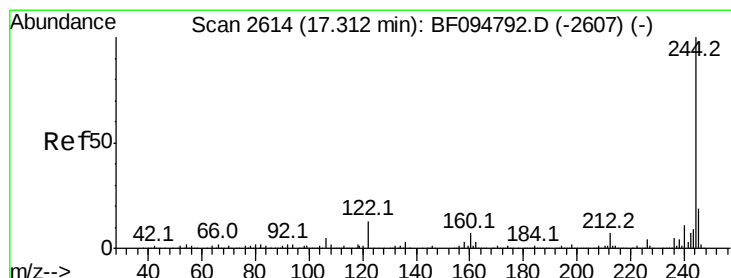
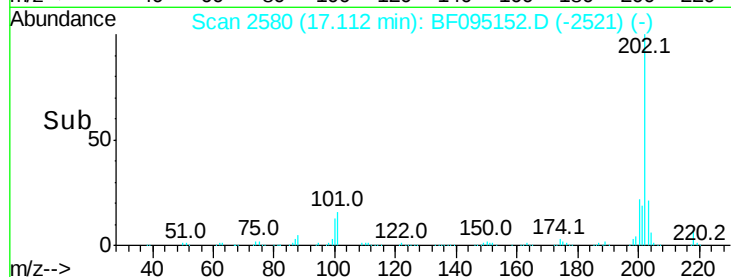
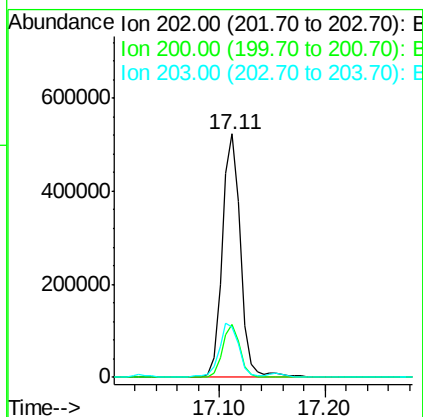
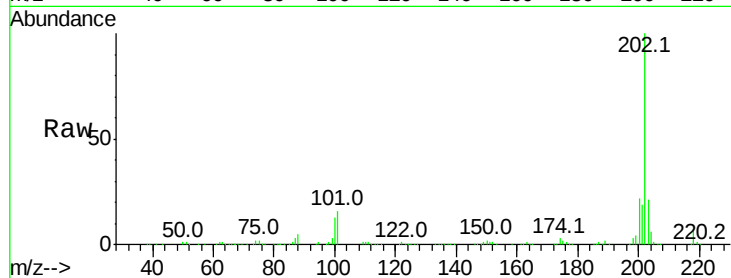




#77
Pvrene
Concen: 53.57 ng
RT: 17.11 min Scan# 2580
Delta R.T. 0.05 min
Lab File: BF095152.D
Acq: 16 May 2017 10:55

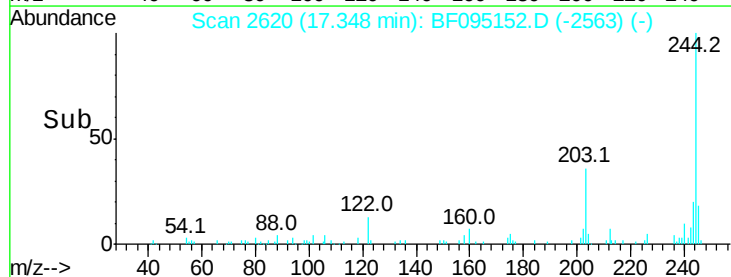
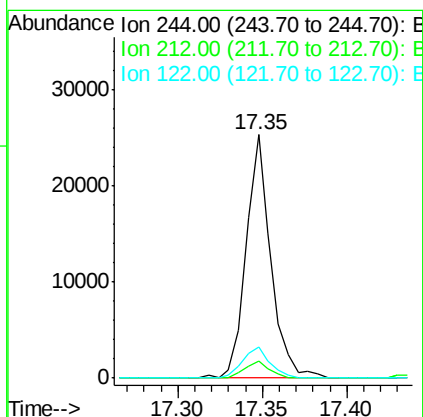
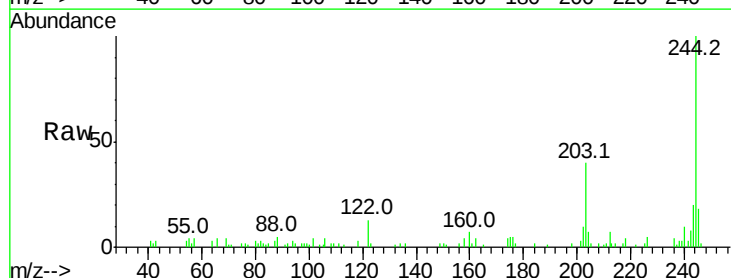
Instrument :
BNA_F
ClientSampleId :

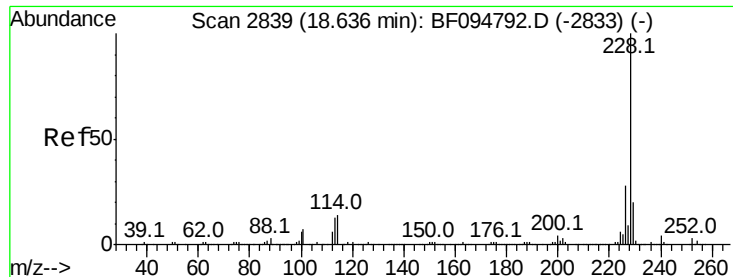
Tot Ion:202 Resp: 626521
Ion Ratio Lower Upper
202 100
200 21.5 17.6 26.4
203 20.9 14.4 21.6



#78
Terphenyl-d14
Concen: 3.63 ng
RT: 17.35 min Scan# 2620
Delta R.T. 0.04 min
Lab File: BF095152.D
Acq: 16 May 2017 10:55

Tgt Ion:244 Resp: 25754
Ion Ratio Lower Upper
244 100
212 7.0 6.0 9.0
122 13.0 10.3 15.5

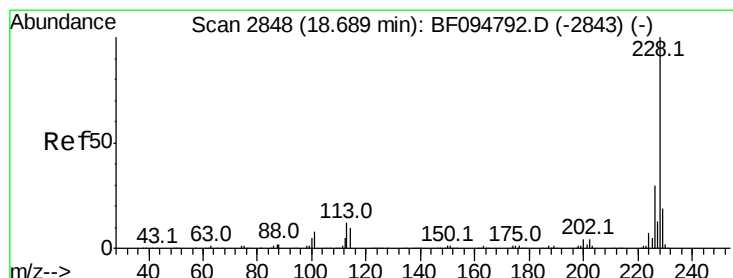
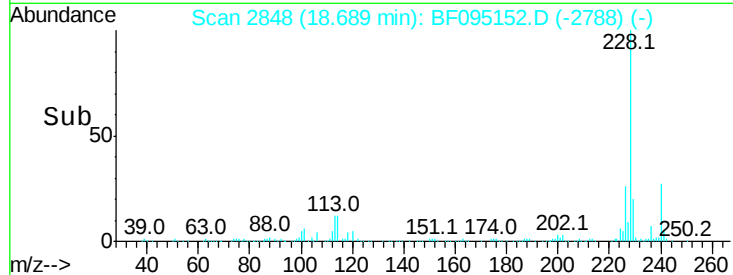
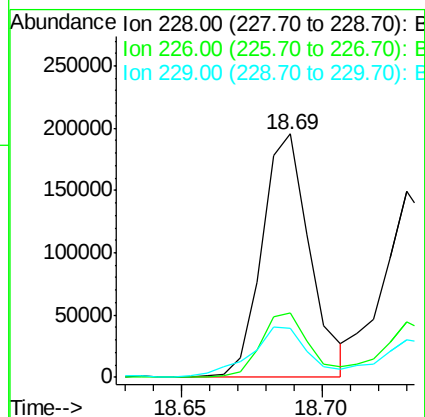
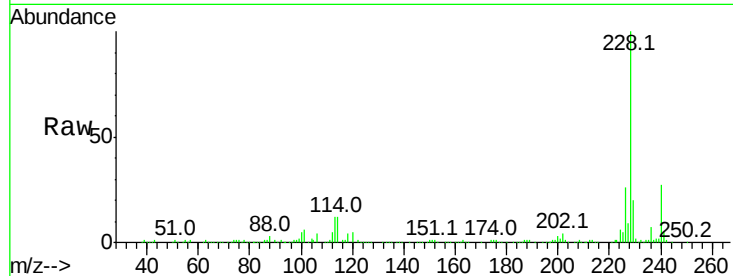




#80
Benzo(a)anthracene
Concen: 25.10 ng
RT: 18.69 min Scan# 2848
Delta R.T. 0.05 min
Lab File: BF095152.D
Acq: 16 May 2017 10:55

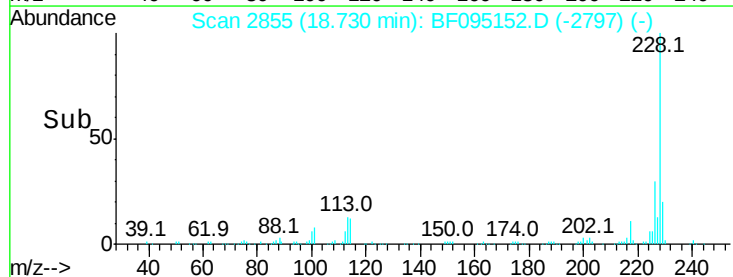
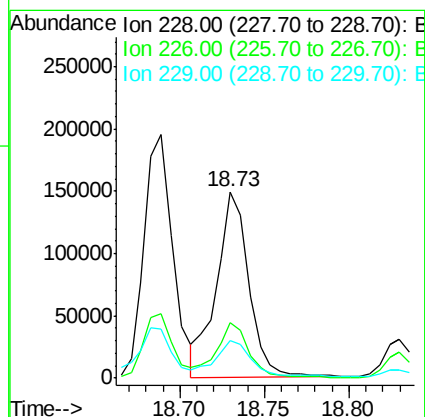
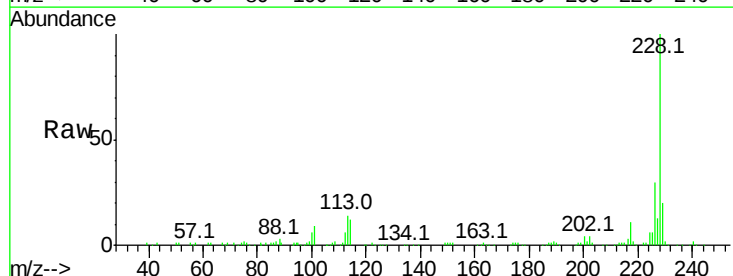
Instrument :
BNA_F
ClientSampleId :

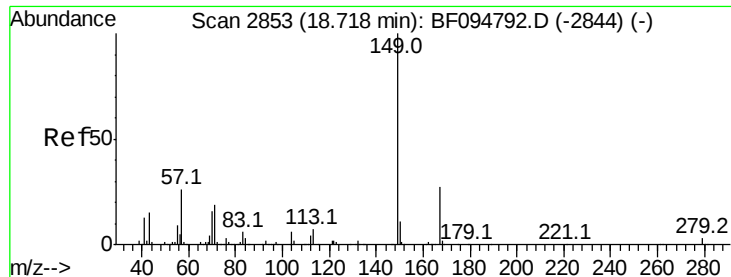
Tot Ion:228 Resp: 228442
Ion Ratio Lower Upper
228 100
226 26.4 22.6 33.8
229 20.2 16.3 24.5



#82
Chrysene
Concen: 22.63 ng
RT: 18.73 min Scan# 2855
Delta R.T. 0.04 min
Lab File: BF095152.D
Acq: 16 May 2017 10:55

Tgt Ion:228 Resp: 199164
Ion Ratio Lower Upper
228 100
226 30.0 24.9 37.3
229 20.5 15.8 23.6

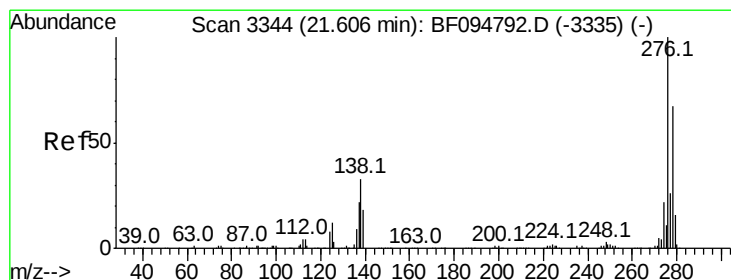
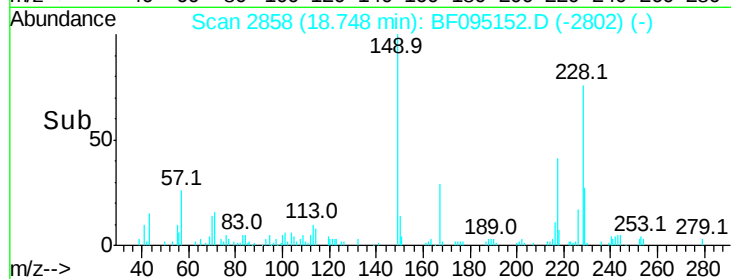
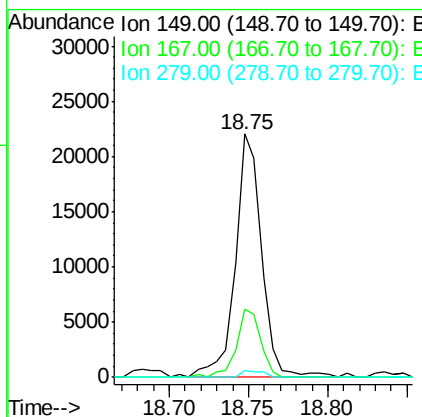
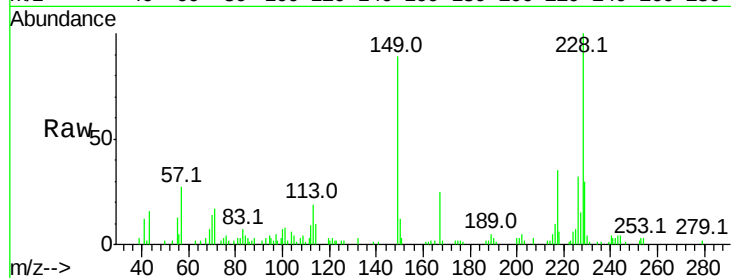




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 3.26 ng
 RT: 18.75 min Scan# 2858
 Delta R.T. 0.03 min
 Lab File: BF095152.D
 Acq: 16 May 2017 10:55

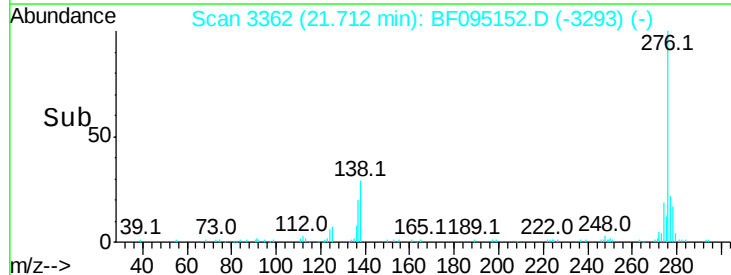
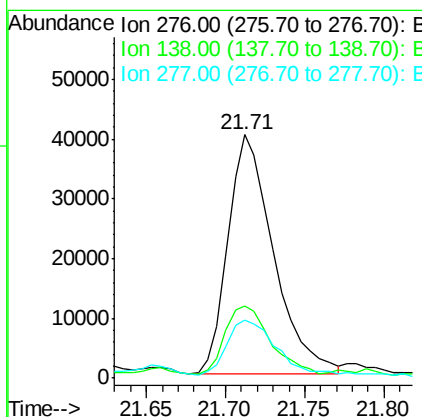
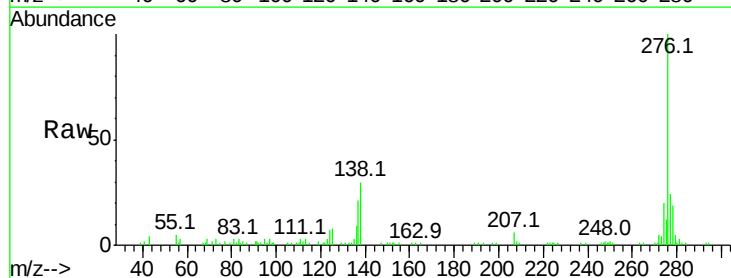
Instrument :
 BNA_F
 ClientSampleId :

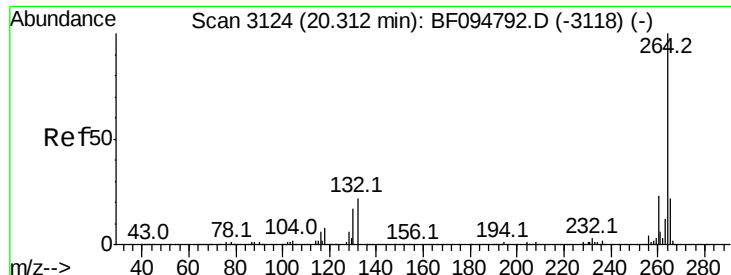
Tot Ion:149 Resp: 25304
 Ion Ratio Lower Upper
 149 100
 167 27.8 21.0 31.4
 279 2.7 1.9 2.9



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.23 ng
 RT: 21.71 min Scan# 3362
 Delta R.T. 0.11 min
 Lab File: BF095152.D
 Acq: 16 May 2017 10:55

Tgt Ion:276 Resp: 80234
 Ion Ratio Lower Upper
 276 100
 138 28.5 27.8 41.6
 277 26.4 20.2 30.4

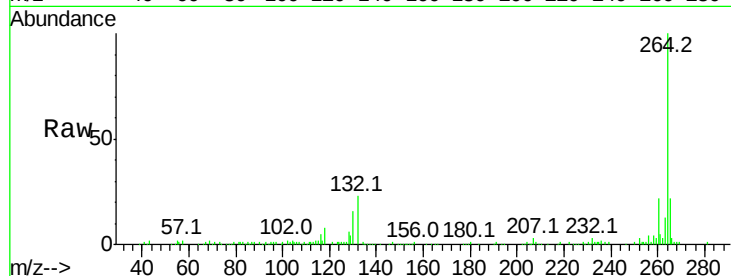




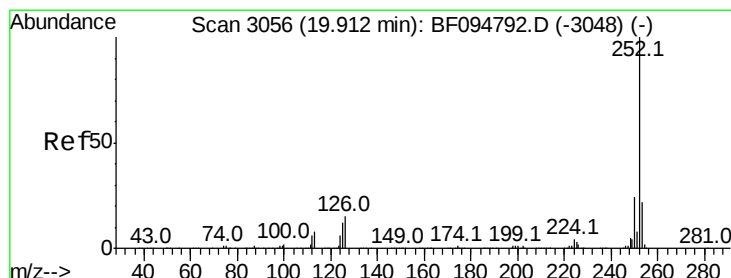
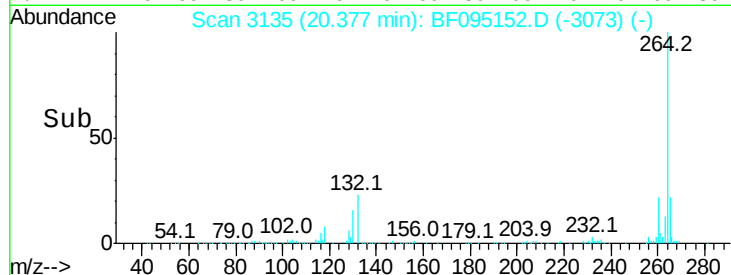
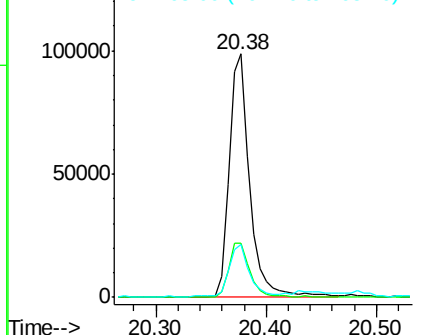
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.38 min Scan# 3135
Delta R.T. 0.06 min
Lab File: BF095152.D
Acq: 16 May 2017 10:55

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 128587
Ion Ratio Lower Upper
264 100
260 22.3 19.5 29.3
265 21.5 17.2 25.8

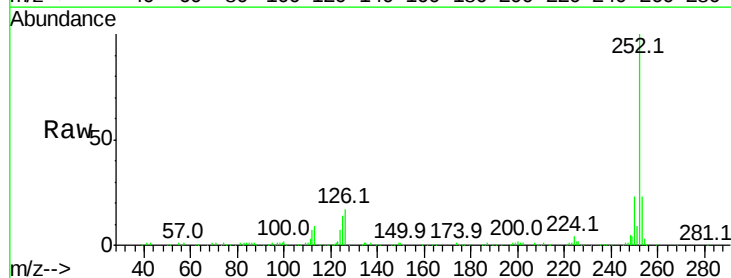


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

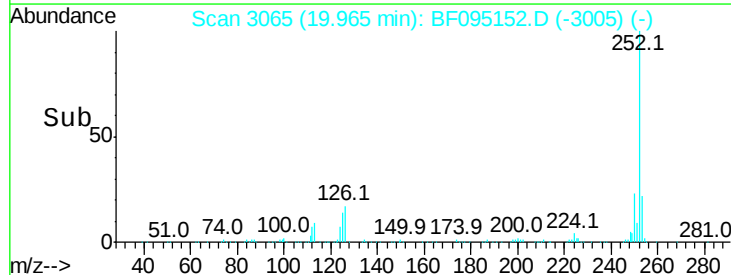
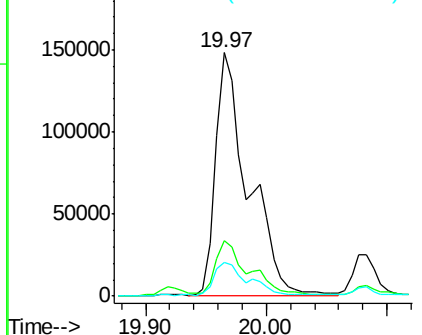


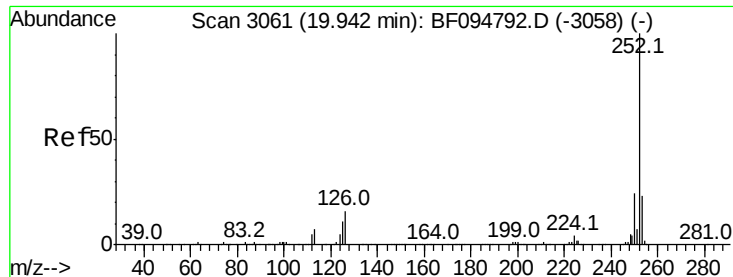
#87
Benzo(b)fluoranthene
Concen: 34.83 ng
RT: 19.97 min Scan# 3065
Delta R.T. 0.05 min
Lab File: BF095152.D
Acq: 16 May 2017 10:55

Tgt Ion:252 Resp: 276728
Ion Ratio Lower Upper
252 100
253 22.7 18.1 27.1
125 13.8 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

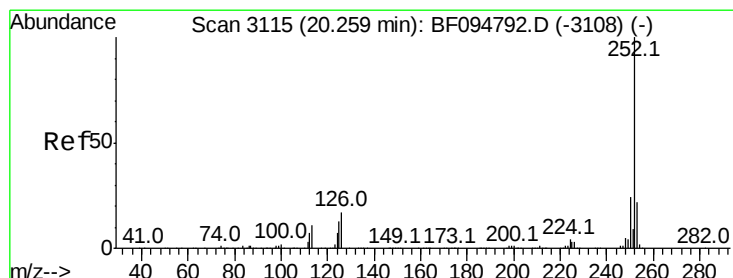
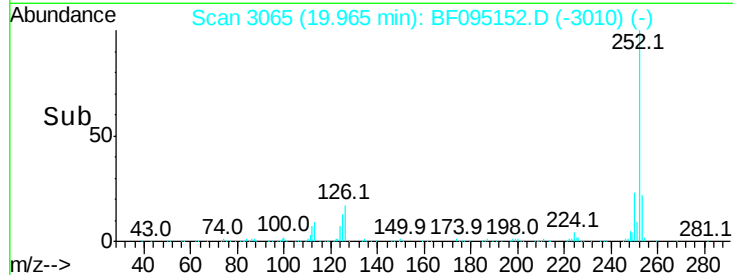
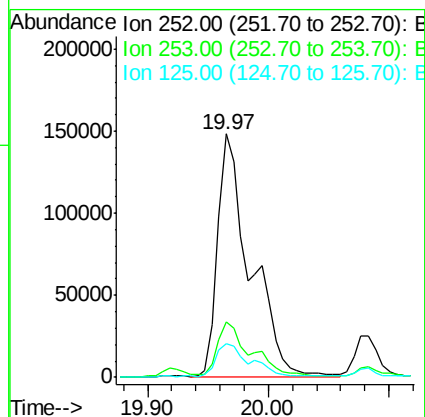
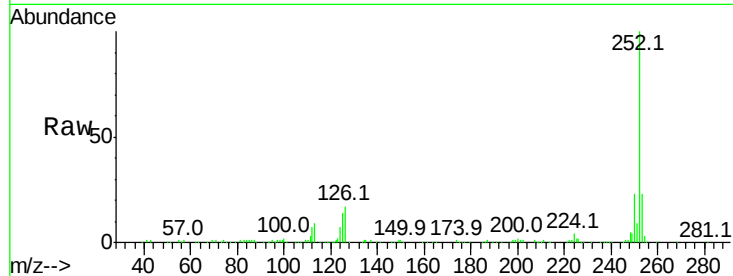




#88
Benzo(k)fluoranthene
Concen: 36.11 ng
RT: 19.97 min Scan# 3065
Delta R.T. 0.02 min
Lab File: BF095152.D
Acq: 16 May 2017 10:55

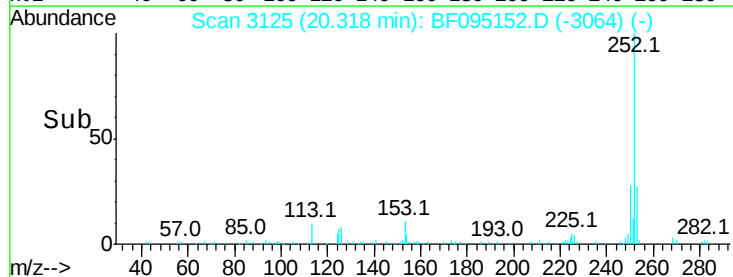
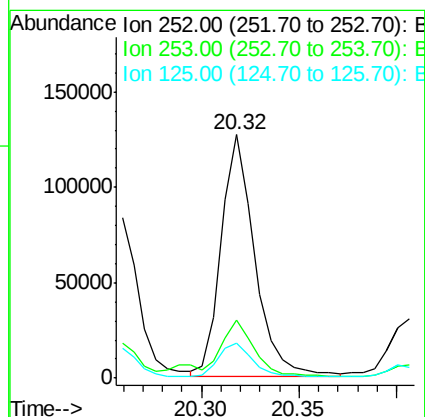
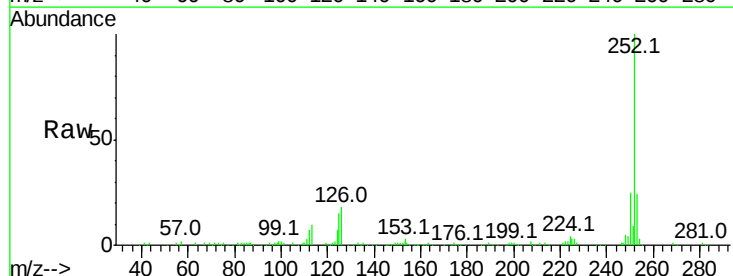
Instrument :
BNA_F
ClientSampleId :

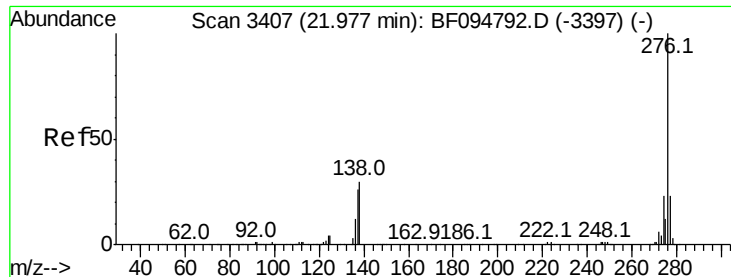
Tot Ion:252 Resp: 276728
Ion Ratio Lower Upper
252 100
253 22.7 18.4 27.6
125 13.8 13.1 19.7



#89
Benzo(a)pyrene
Concen: 20.75 ng
RT: 20.32 min Scan# 3125
Delta R.T. 0.06 min
Lab File: BF095152.D
Acq: 16 May 2017 10:55

Tgt Ion:252 Resp: 152146
Ion Ratio Lower Upper
252 100
253 24.0 17.5 26.3
125 14.6 11.0 16.4





#91

Benzo(a,h,i)perylene

Concen: 13.53 ng

RT: 22.10 min Scan# 3428

Delta R.T. 0.12 min

Lab File: BF095152.D

Acq: 16 May 2017 10:55

Instrument :

BNA_F

ClientSampleId :

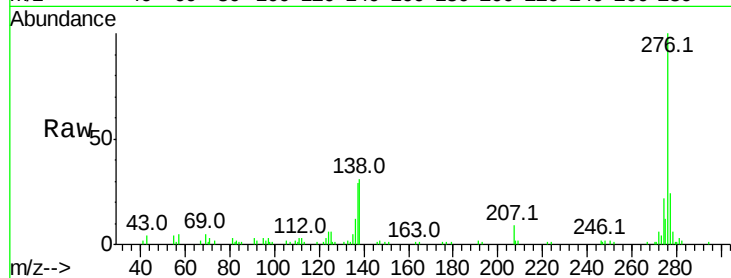
Tot Ion: 276 Resp: 80417

Ion Ratio Lower Upper

276 100

277 23.9 18.6 28.0

138 30.7 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

