

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052217\
 Data File : BF095346.D
 Acq On : 23 May 2017 10:24
 Operator : SJ/MA
 Sample : I3231-01 5X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RO-72-11975

Quant Time: May 23 12:10:35 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 18 17:07:53 2017
 Response via : Initial Calibration

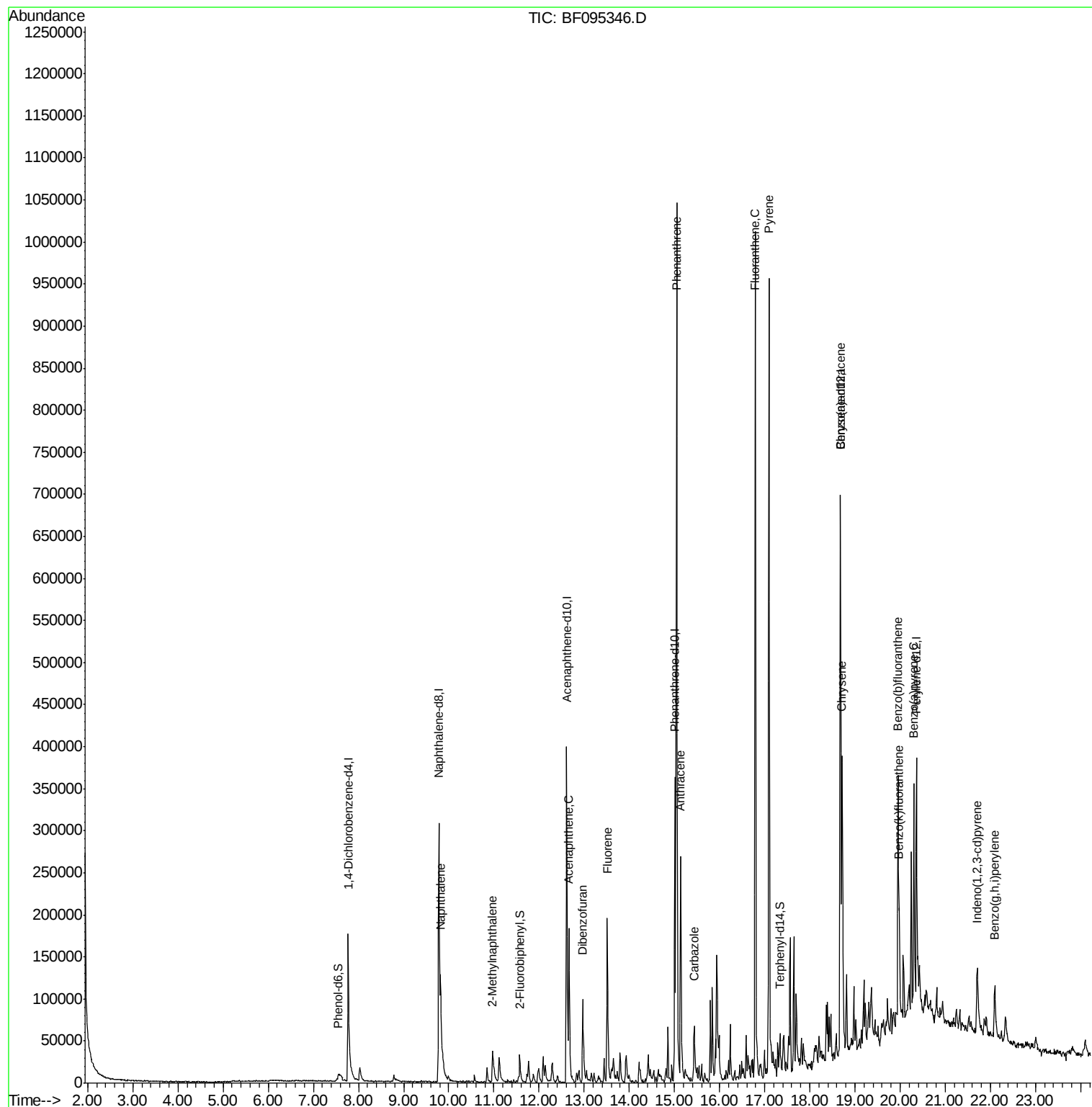
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	70089	20.00	ng	0.00
21) Naphthalene-d8	9.78	136	315900	20.00	ng	0.00
38) Acenaphthene-d10	12.61	164	135903	20.00	ng	-0.01
63) Phenanthrene-d10	15.01	188	190315	20.00	ng	-0.01
75) Chrysene-d12	18.68	240	193230	20.00	ng	-0.01
86) Perylene-d12	20.36	264	141536	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	7.55	99	17146m	3.40	ng	0.24
23) Nitrobenzene-d5	8.80	82	7843m	1.57	ng	0.13
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	11.57	172	30694	3.25	ng	0.01
78) Terphenyl-d14	17.33	244	19882	2.27	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	9.82	128	109279	6.88	ng	99
37) 2-Methylnaphthalene	10.97	142	37046	3.56	ng	96
51) Acenaphthene	12.67	154	73888	8.55	ng	99
54) Dibenzofuran	12.97	168	88436	7.39	ng	95
57) Fluorene	13.51	166	111646	10.73	ng	97
70) Phenanthrene	15.05	178	645335	59.02	ng	98
71) Anthracene	15.14	178	192490	17.23	ng	96
72) Carbazole	15.44	167	57838	5.69	ng	98
74) Fluoranthene	16.79	202	567380	50.58	ng	99
77) Pyrene	17.09	202	479455	33.18	ng	96
80) Benzo(a)anthracene	18.67	228	207491	18.45	ng	96
82) Chrysene	18.71	228	206889	19.03	ng	98
85) Indeno(1,2,3-cd)pyrene	21.71	276	56510	6.40	ng	# 90
87) Benzo(b)fluoranthene	19.95	252	172493m	19.72	ng	
88) Benzo(k)fluoranthene	19.98	252	72834m	8.63	ng	
89) Benzo(a)pyrene	20.31	252	126658	15.69	ng	97
91) Benzo(a,h,i)perylene	22.09	276	57800	8.84	ng	95

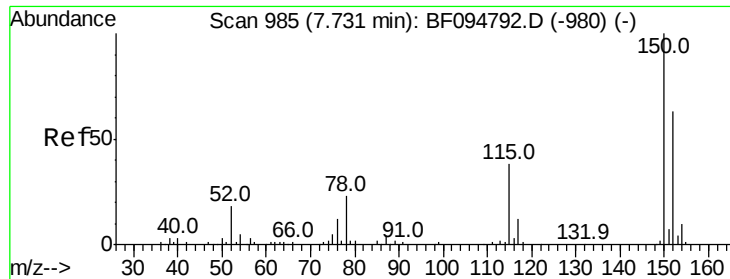
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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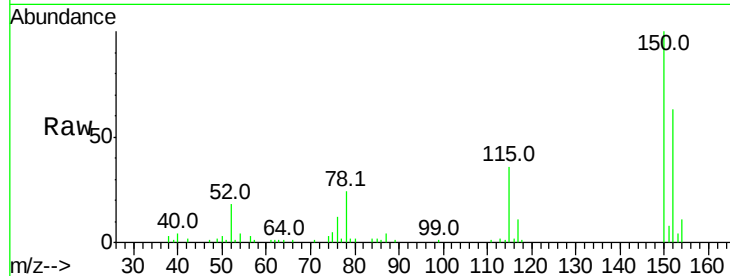


#1

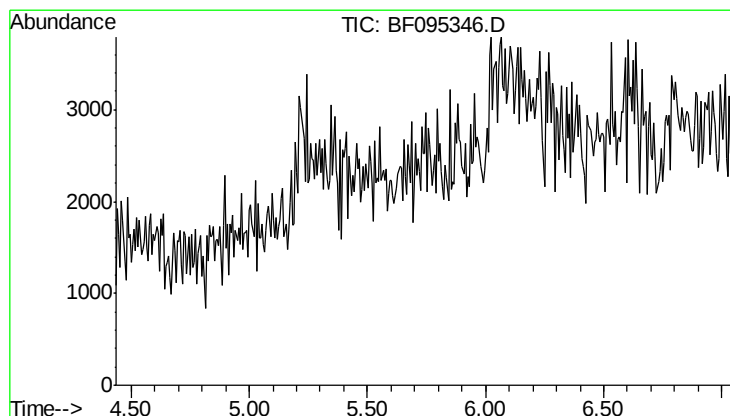
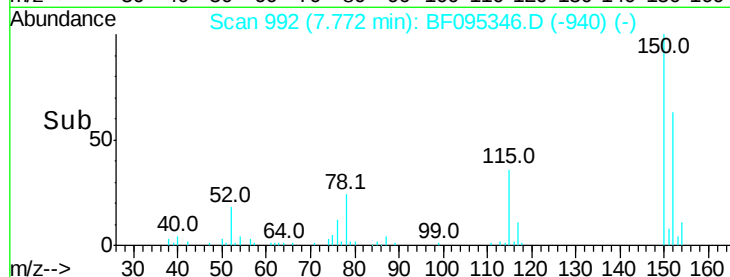
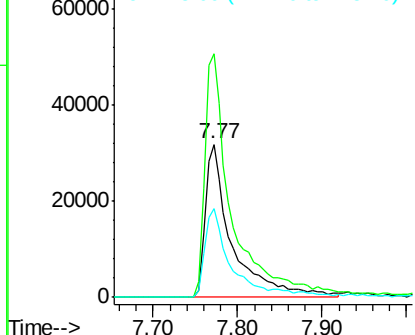
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.77 min Scan# 992
Delta R.T. 0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Instrument :
BNA_F
ClientSampleId :
RO-72-11975

Tot Ion:152 Resp: 70089
Ion Ratio Lower Upper
152 100
150 159.1 126.2 189.2
115 58.0 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

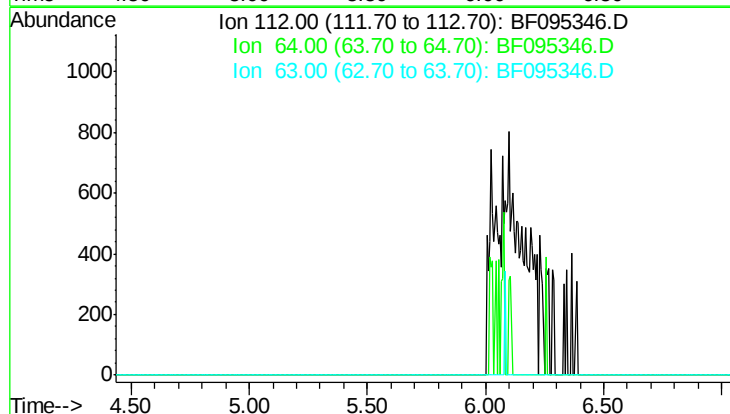


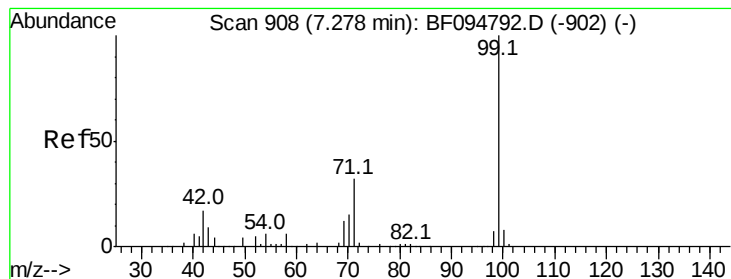
#5

2-Fluorophenol
Concen: 0.00 ng
Expected RT: 5.74 min

Lab File: BF095346.D
Acq: 23 May 2017 10:24

Tgt Ion: 112
Sig Exp Ratio
112 100
64 57.5
63 29.2





#7

Phenol-d6

Concen: 3.40 ng/mL

RT: 7.55 min Scan# 955

Delta R.T. 0.24 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Instrument :

BNA_F

ClientSampleId :

RO-72-11975

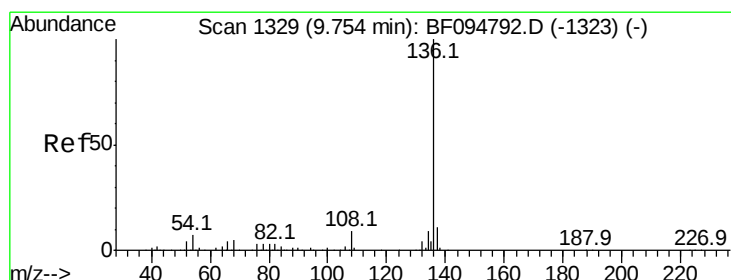
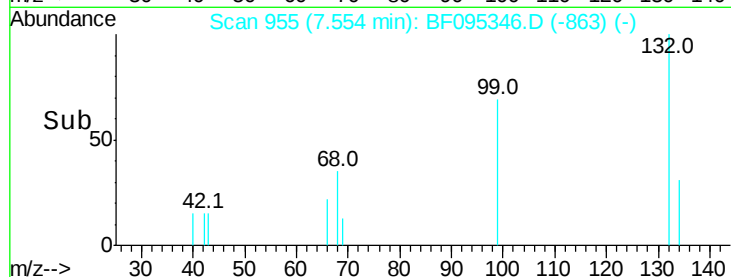
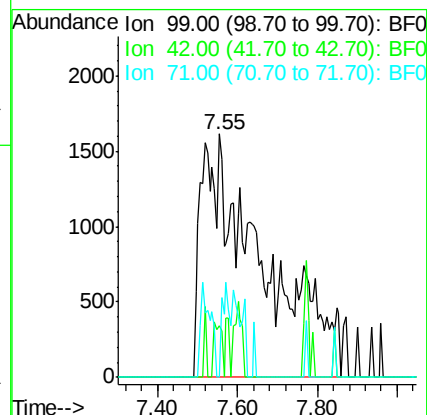
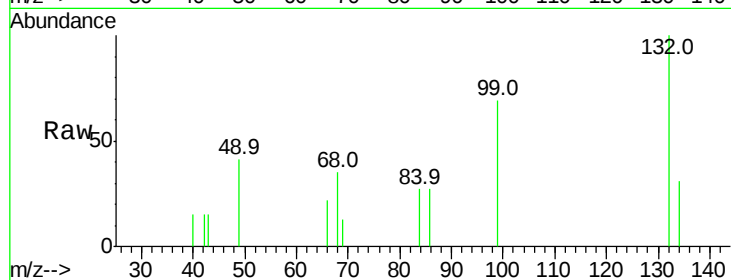
Tot Ion: 99 Resp: 17146

Ion Ratio Lower Upper

99 100

42 21.1 13.5 20.3#

71 0.0 24.5 36.7#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.78 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Tgt Ion: 136 Resp: 315900

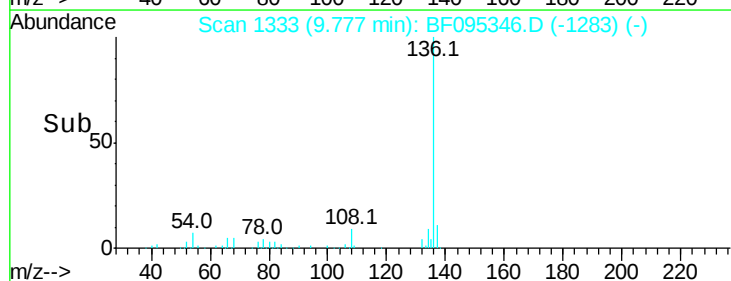
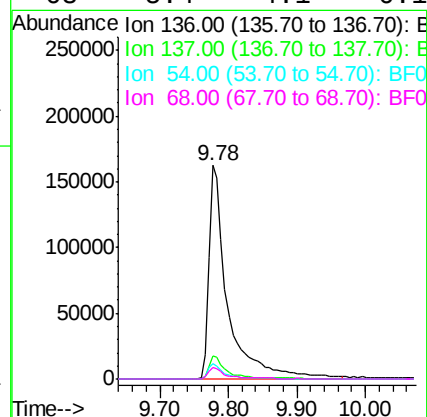
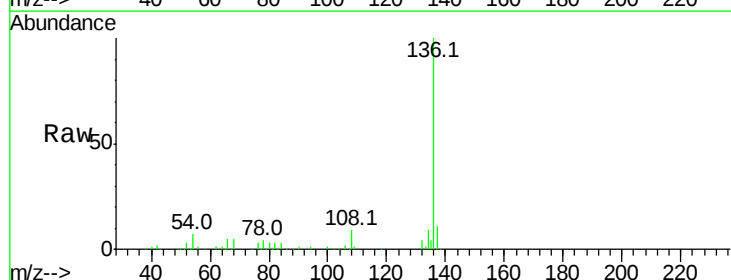
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 7.5 4.9 7.3#

68 5.4 4.1 6.1

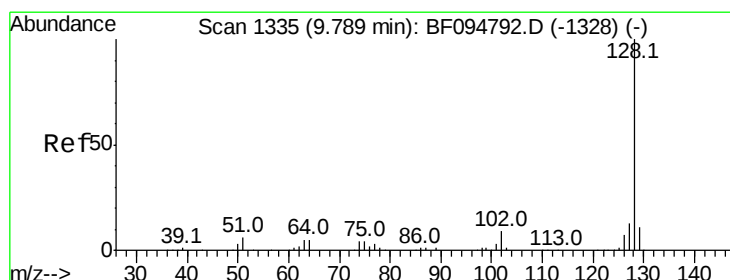
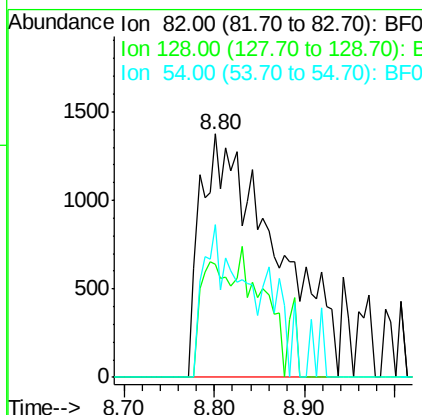
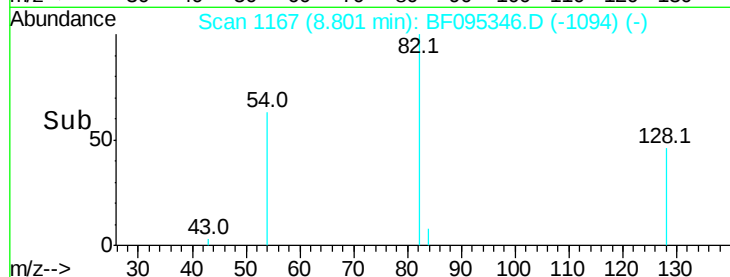
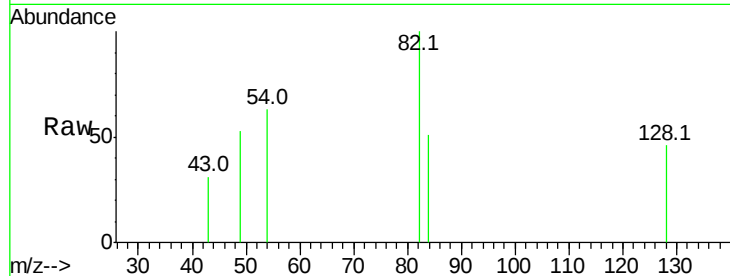




#23
 Nitrobenzene-d5
 Concen: 1.57 ng/ml
 RT: 8.80 min Scan# 1167
 Delta R.T. 0.13 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

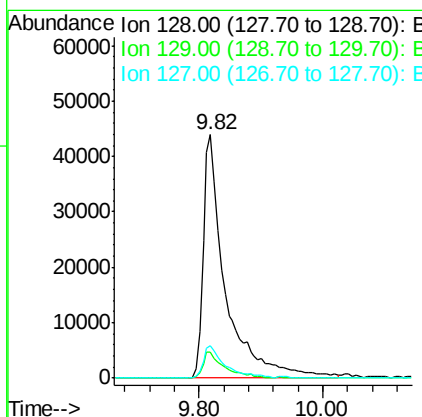
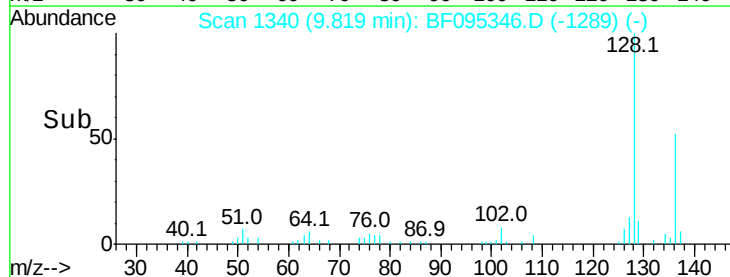
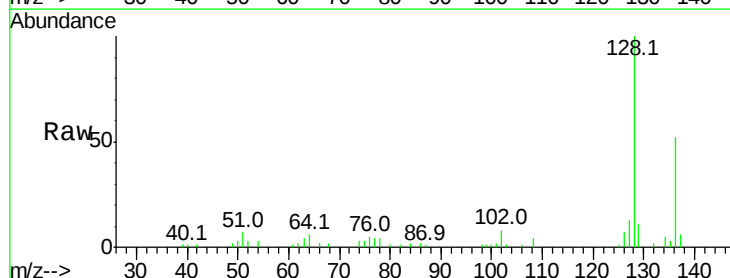
Instrument :
 BNA_F
 ClientSampleID :
 RO-72-11975

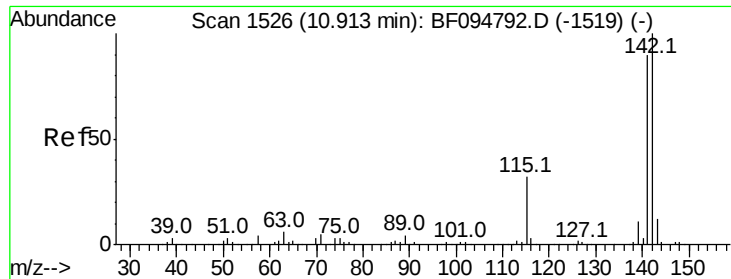
Tot Ion: 82 Resp: 7843
 Ion Ratio Lower Upper
 82 100
 128 46.3 34.0 51.0
 54 63.0 42.2 63.2



#31
 Naphthalene
 Concen: 6.88 ng
 RT: 9.82 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

Tgt Ion: 128 Resp: 109279
 Ion Ratio Lower Upper
 128 100
 129 10.6 9.0 13.6
 127 13.3 10.8 16.2

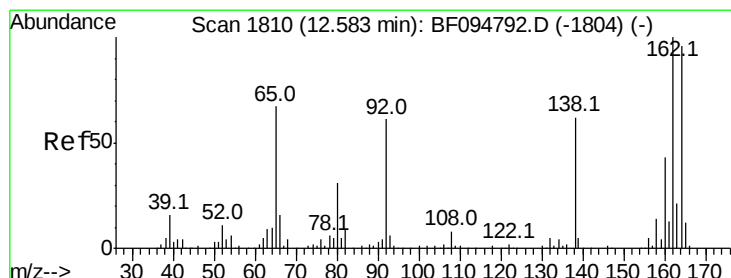
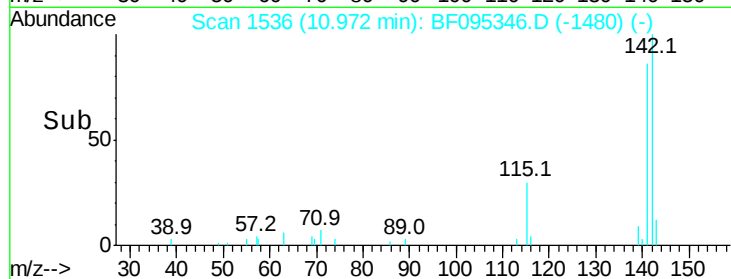
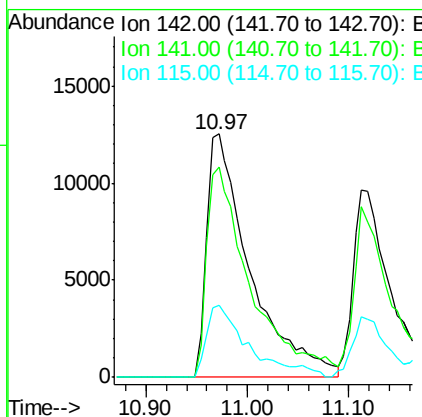
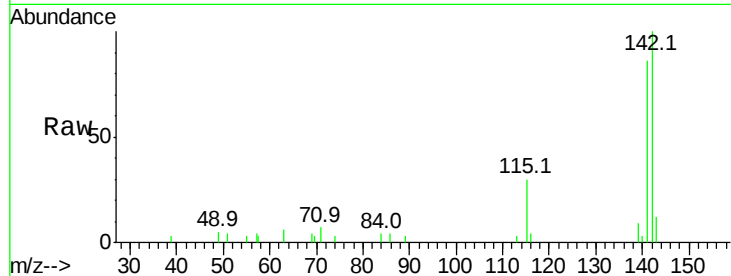




#37
2-Methylnaphthalene
Concen: 3.56 ng
RT: 10.97 min Scan# 1536
Delta R.T. 0.03 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

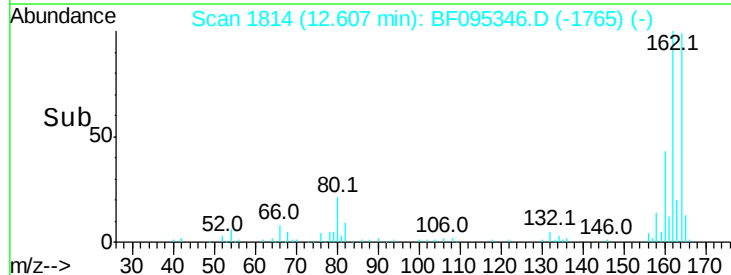
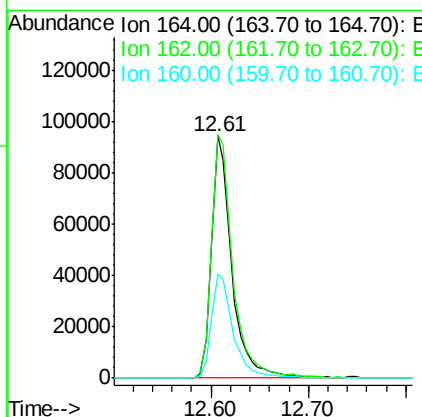
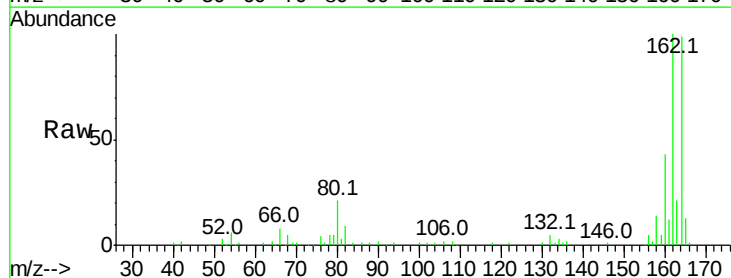
Instrument :
BNA_F
ClientSampleId :
RO-72-11975

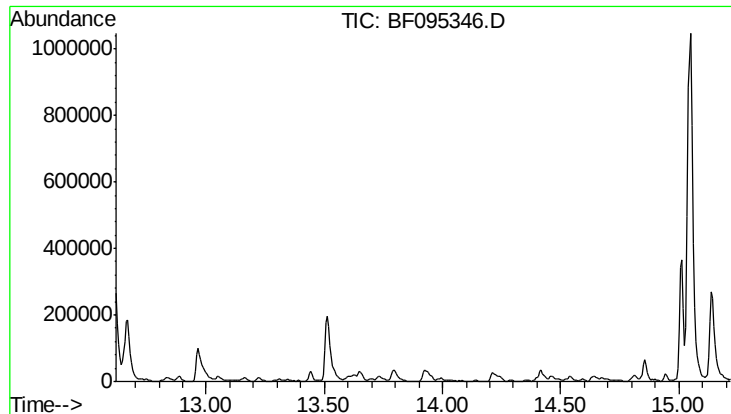
Tot Ion:142 Resp: 37046
Ion Ratio Lower Upper
142 100
141 86.2 71.3 106.9
115 29.6 27.1 40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.61 min Scan# 1814
Delta R.T. -0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Tgt Ion:164 Resp: 135903
Ion Ratio Lower Upper
164 100
162 100.7 82.6 123.8
160 43.2 36.2 54.2

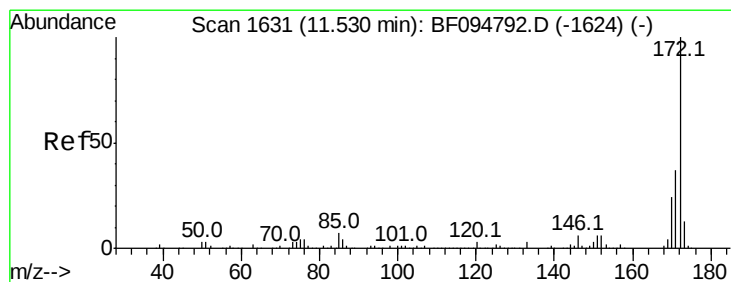
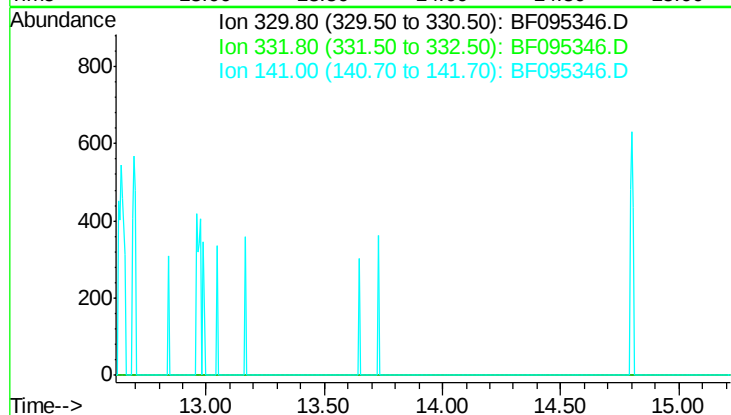




#41
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 13.92 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

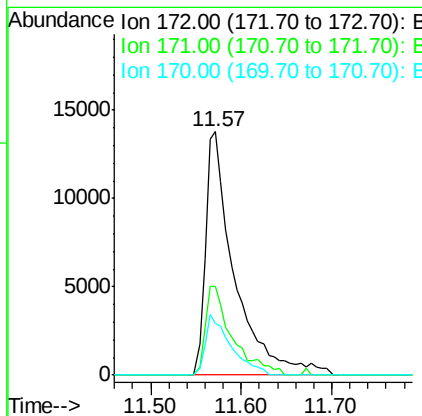
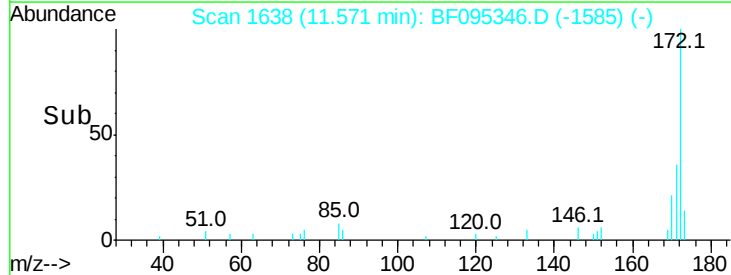
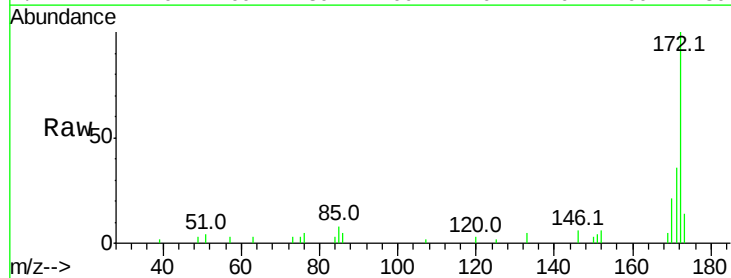
Instrument :
 BNA_F
 ClientSampleId :
 RO-72-11975

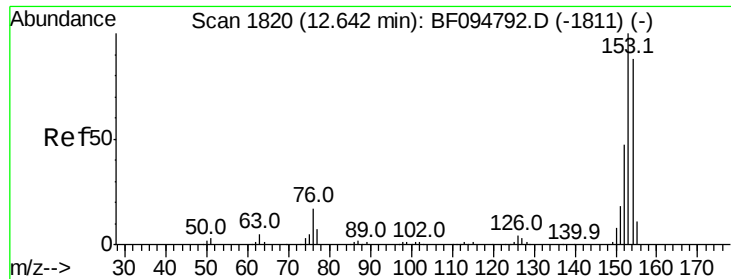
Tot Ion: 330
 Sig Exp Ratio
 330 100
 332 95.8
 141 39.3



#44
 2-Fluorobiphenyl
 Concen: 3.25 ng
 RT: 11.57 min Scan# 1638
 Delta R.T. 0.01 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

Tgt Ion: 172 Resp: 30694
 Ion Ratio Lower Upper
 172 100
 171 36.2 29.6 44.4
 170 21.5 19.8 29.8





#51

Acenaphthene

Concen: 8.55 ng

RT: 12.67 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Instrument :

BNA_F

ClientSampleId :

RO-72-11975

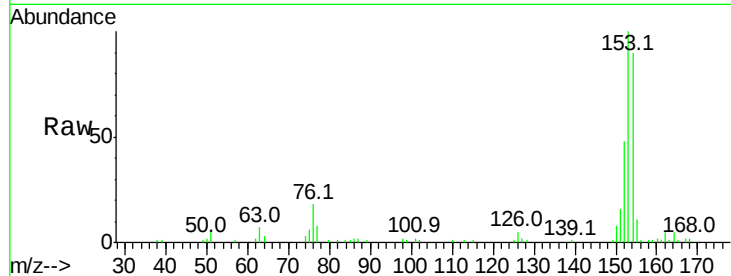
Tot Ion:154 Resp: 73888

Ion Ratio Lower Upper

154 100

153 111.6 90.5 135.7

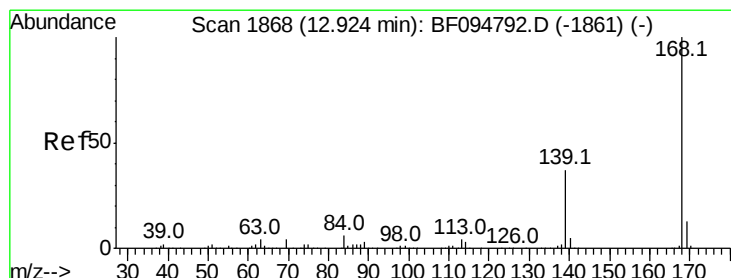
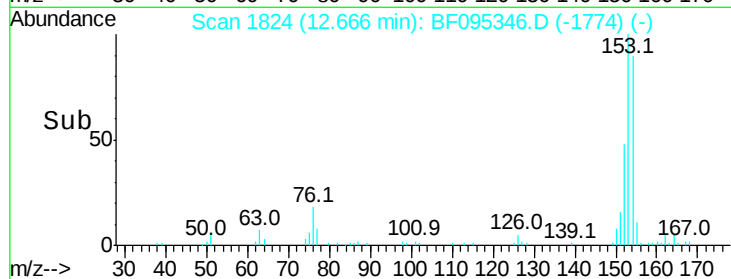
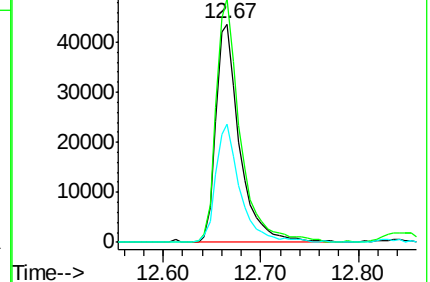
152 54.0 43.6 65.4



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: 7.39 ng

RT: 12.97 min Scan# 1875

Delta R.T. 0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

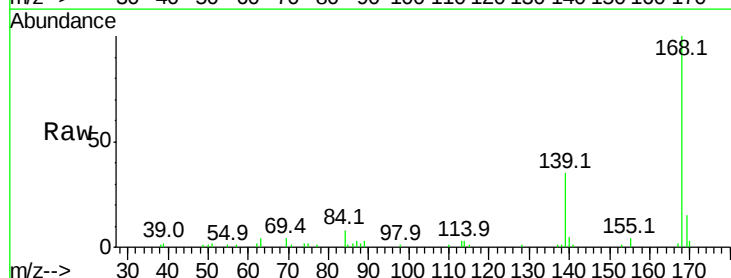
Tgt Ion:168 Resp: 88436

Ion Ratio Lower Upper

168 100

139 35.4 30.6 45.8

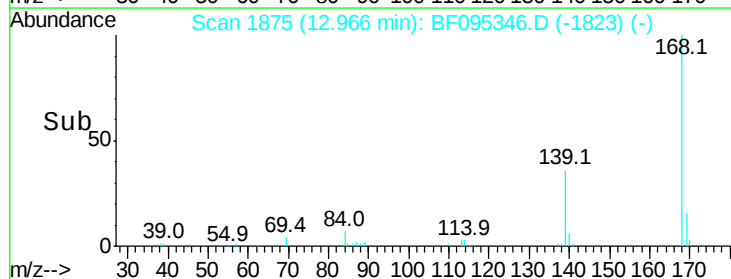
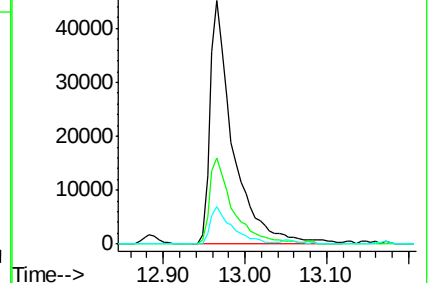
169 15.4 10.8 16.2

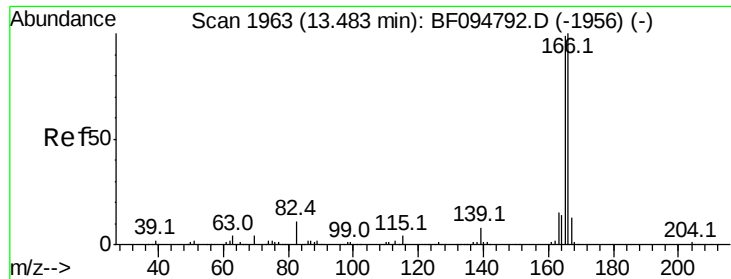


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 10.73 ng

RT: 13.51 min Scan# 1968

Delta R.T. -0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Instrument :

BNA_F

ClientSampleId :

RO-72-11975

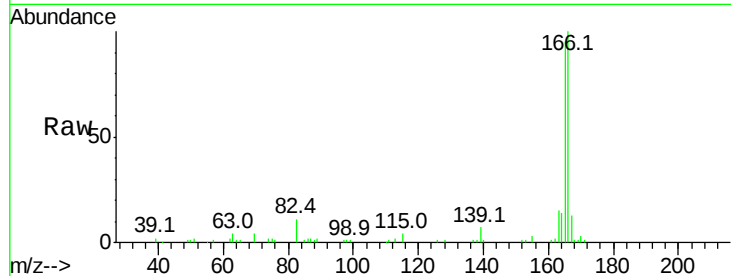
Tot Ion:166 Resp: 111646

Ion Ratio Lower Upper

166 100

165 95.5 78.8 118.2

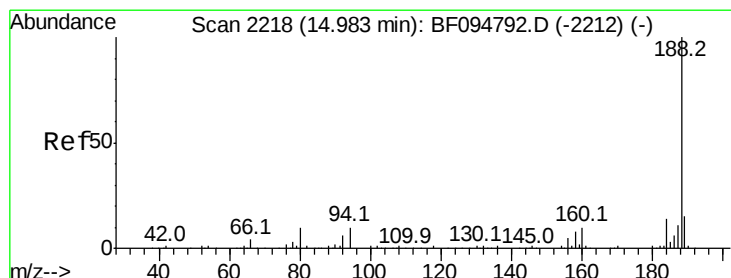
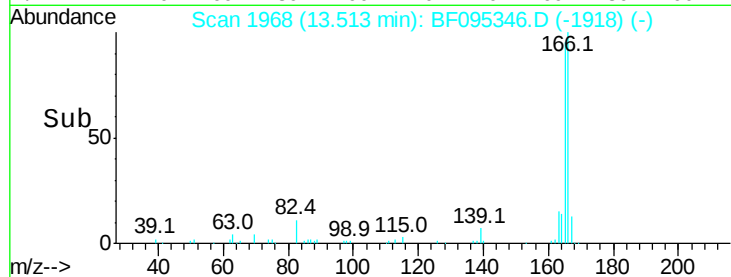
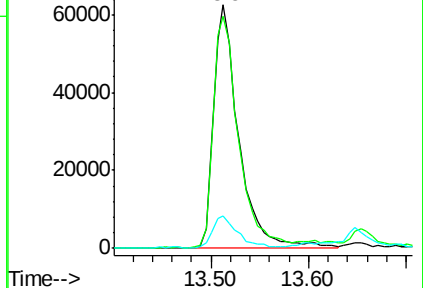
167 13.3 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 15.01 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

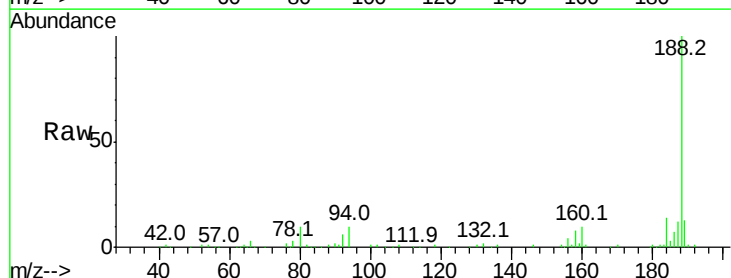
Tgt Ion:188 Resp: 190315

Ion Ratio Lower Upper

188 100

94 9.7 9.4 14.2

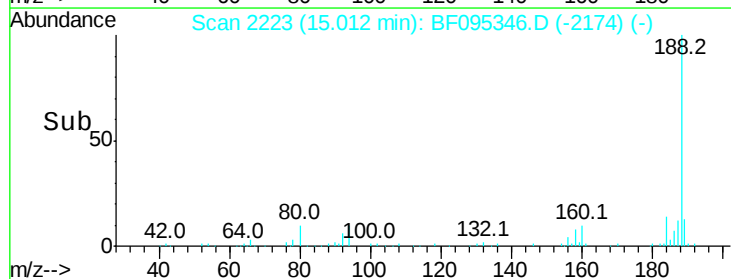
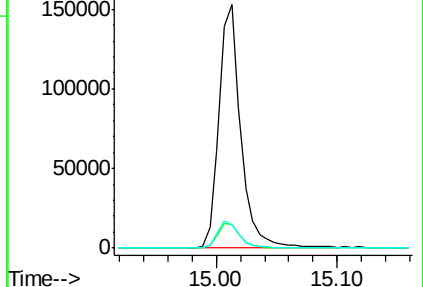
80 9.7 10.2 15.2#

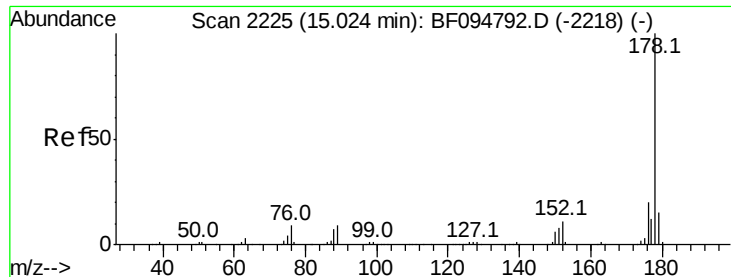


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

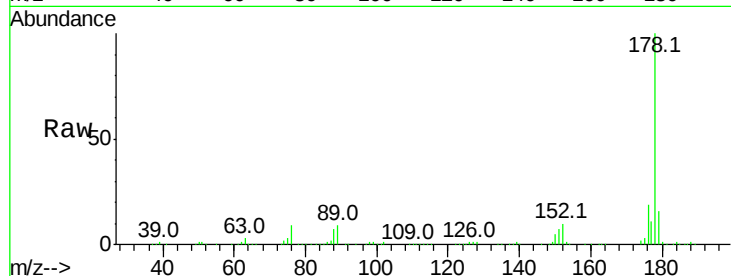




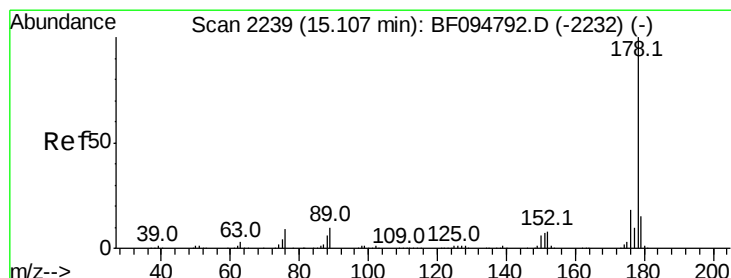
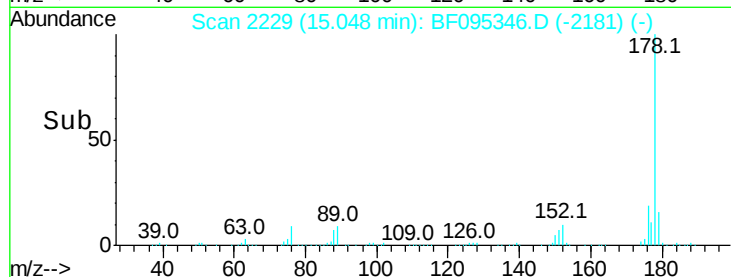
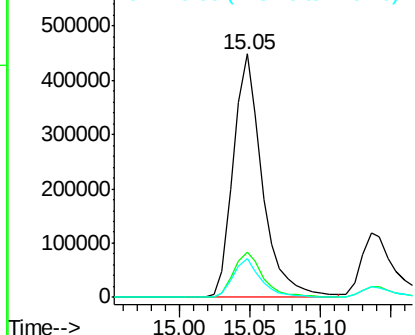
#70
Phenanthrene
Concen: 59.02 ng
RT: 15.05 min Scan# 2229
Delta R.T. -0.02 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Instrument :
BNA_F
ClientSampleId :
RO-72-11975

Tot Ion:178 Resp: 645335
Ion Ratio Lower Upper
178 100
176 18.6 16.2 24.4
179 15.7 12.6 19.0

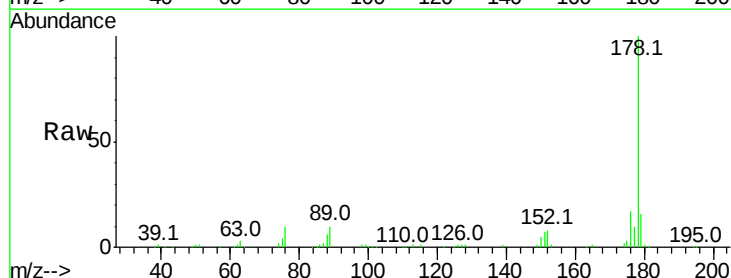


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

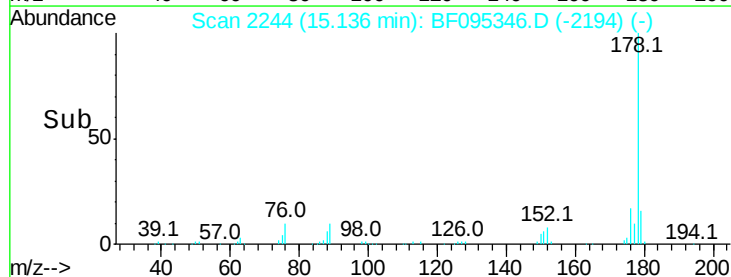
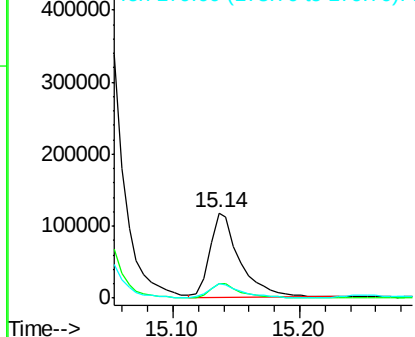


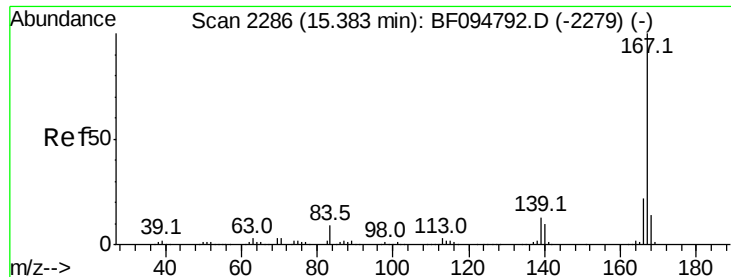
#71
Anthracene
Concen: 17.23 ng
RT: 15.14 min Scan# 2244
Delta R.T. -0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Tgt Ion:178 Resp: 192490
Ion Ratio Lower Upper
178 100
176 17.0 15.8 23.8
179 16.5 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: 5.69 ng

RT: 15.44 min Scan# 2295

Delta R.T. 0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Instrument :

BNA_F

ClientSampleId :

RO-72-11975

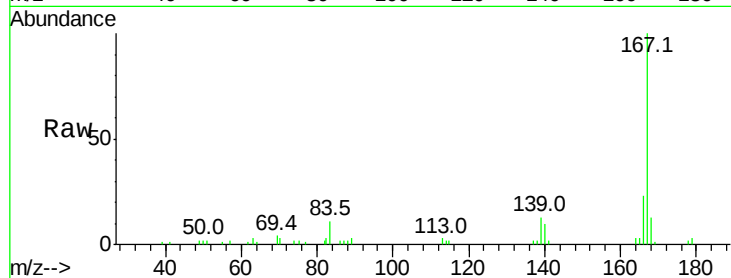
Tot Ion:167 Resp: 57838

Ion Ratio Lower Upper

167 100

166 22.8 18.1 27.1

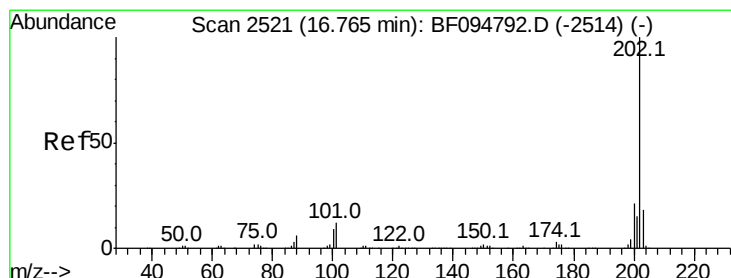
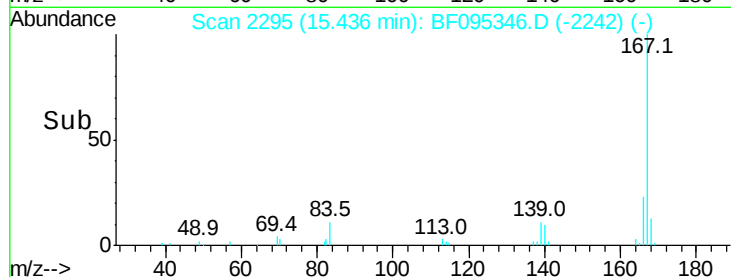
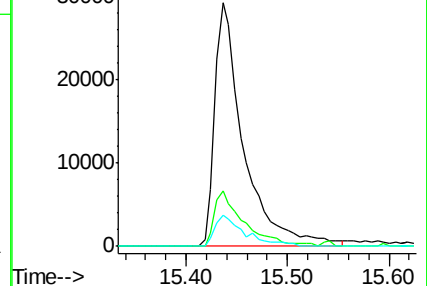
139 12.8 11.7 17.5



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: 50.58 ng

RT: 16.79 min Scan# 2525

Delta R.T. -0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

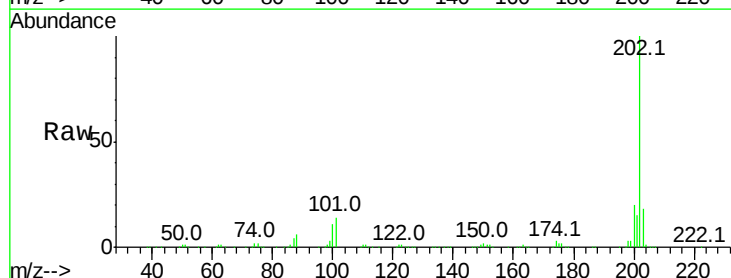
Tgt Ion:202 Resp: 567380

Ion Ratio Lower Upper

202 100

101 14.2 0.0 33.2

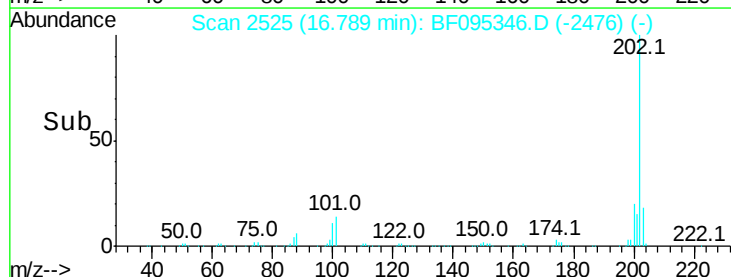
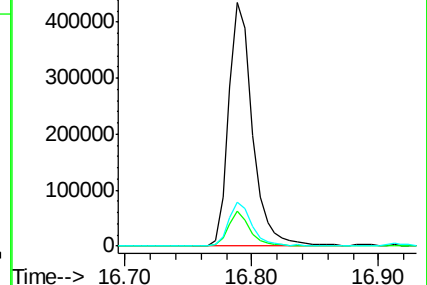
203 18.0 0.0 38.1

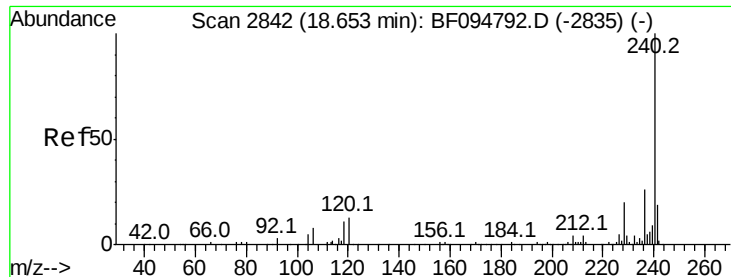


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

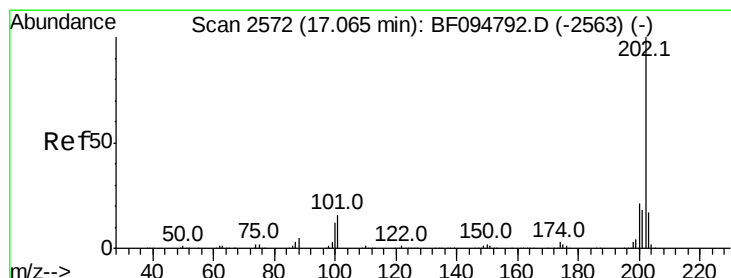
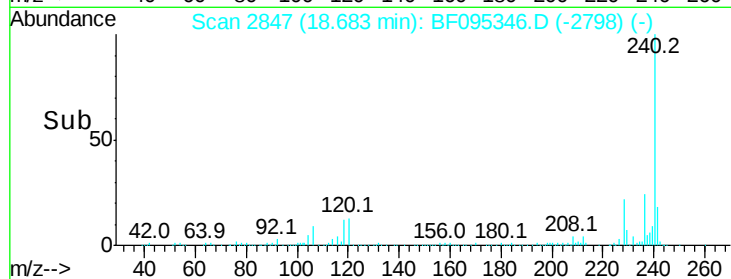
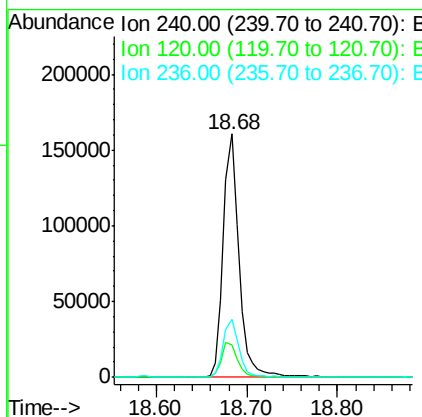
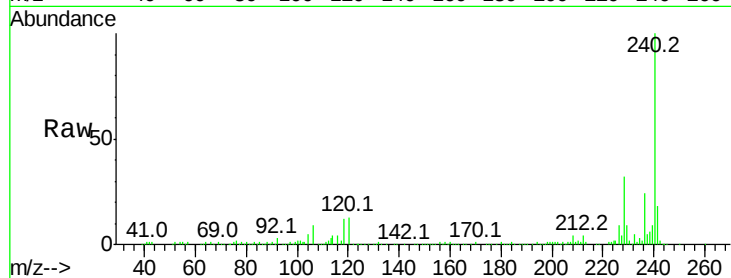




#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.68 min Scan# 2847
 Delta R.T. -0.01 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

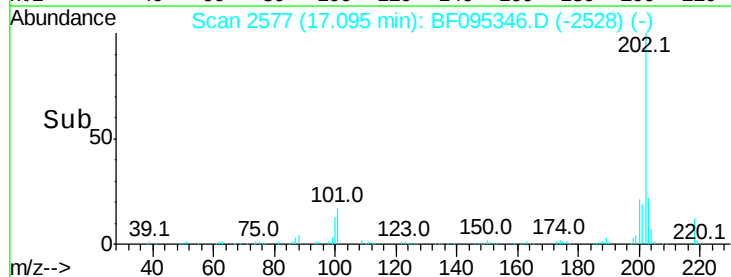
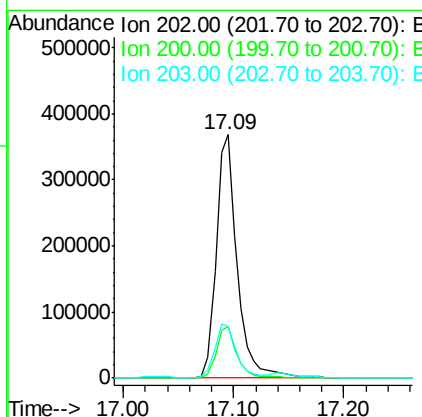
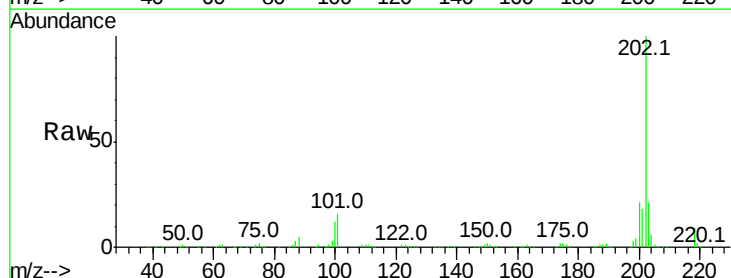
Instrument :
 BNA_F
 ClientSampleId :
 RO-72-11975

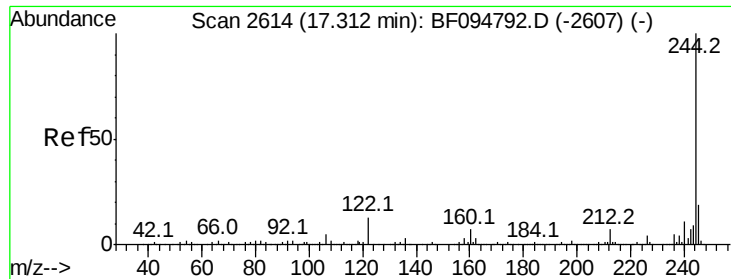
Tot Ion:240 Resp: 193230
 Ion Ratio Lower Upper
 240 100
 120 13.2 5.8 8.8#
 236 24.0 20.5 30.7



#77
 Pyrene
 Concen: 33.18 ng
 RT: 17.09 min Scan# 2577
 Delta R.T. -0.01 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

Tgt Ion:202 Resp: 479455
 Ion Ratio Lower Upper
 202 100
 200 21.0 17.6 26.4
 203 21.2 14.4 21.6

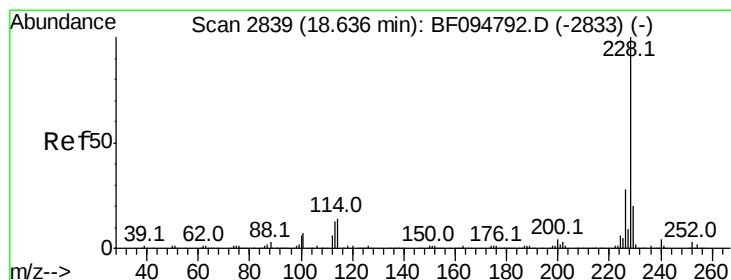
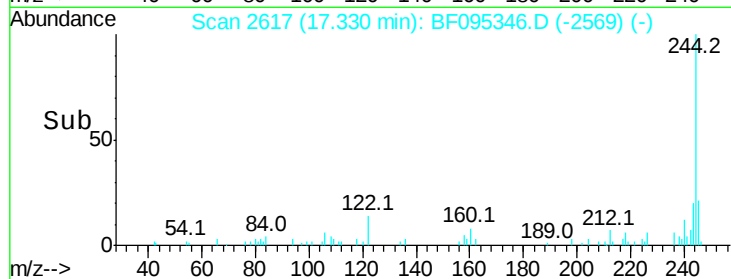
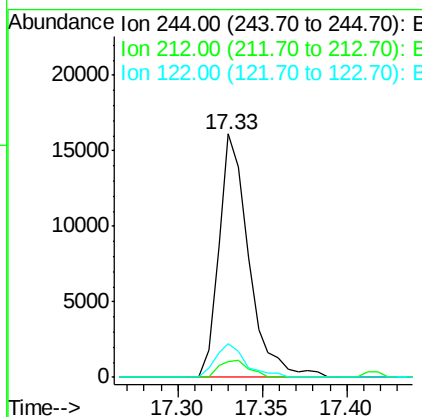
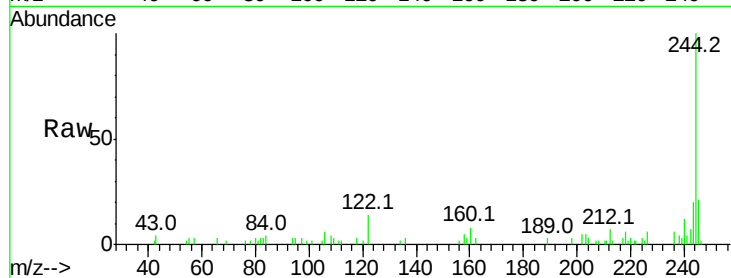




#78
 Terphenyl-d14
 Concen: 2.27 ng
 RT: 17.33 min Scan# 2617
 Delta R.T. -0.02 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

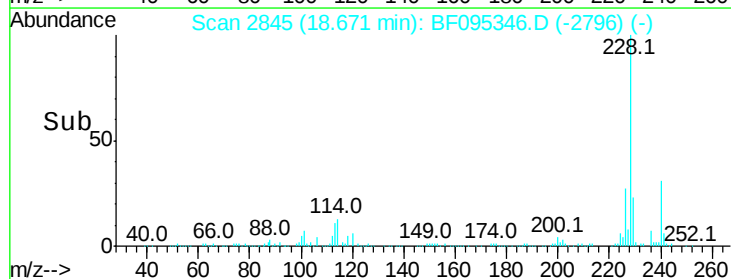
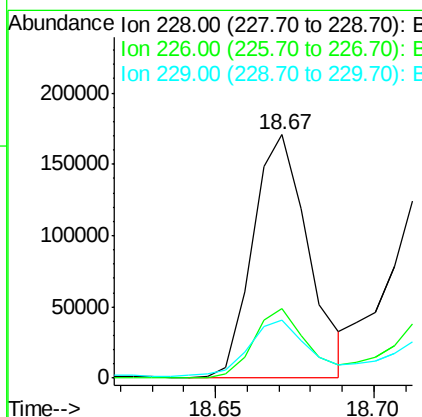
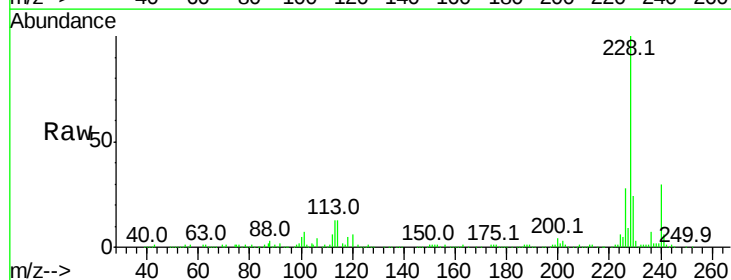
Instrument :
 BNA_F
 ClientSampleId :
 RO-72-11975

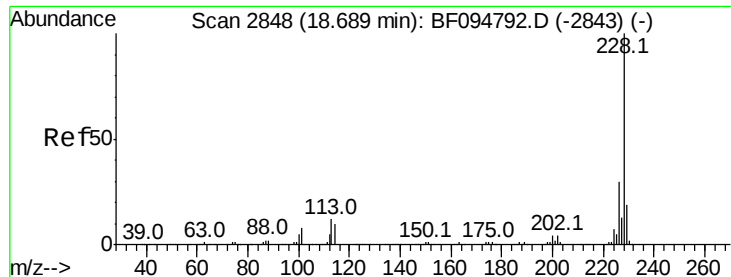
Tot Ion:244 Resp: 19882
 Ion Ratio Lower Upper
 244 100
 212 6.6 6.0 9.0
 122 14.1 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 18.45 ng
 RT: 18.67 min Scan# 2845
 Delta R.T. -0.01 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

Tgt Ion:228 Resp: 207491
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.6 33.8
 229 24.0 16.3 24.5





#82

Chrysene

Concen: 19.03 ng

RT: 18.71 min Scan# 2852

Delta R.T. -0.02 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Instrument :

BNA_F

ClientSampleId :

RO-72-11975

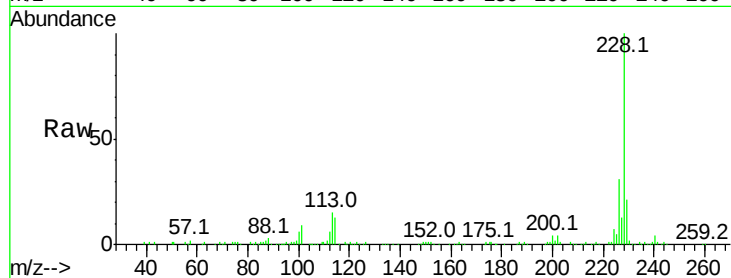
Tot Ion:228 Resp: 206889

Ion Ratio Lower Upper

228 100

226 30.5 24.9 37.3

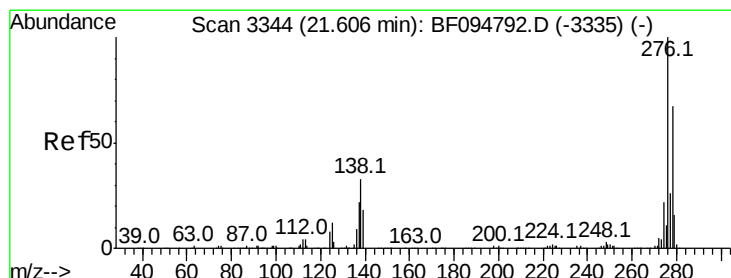
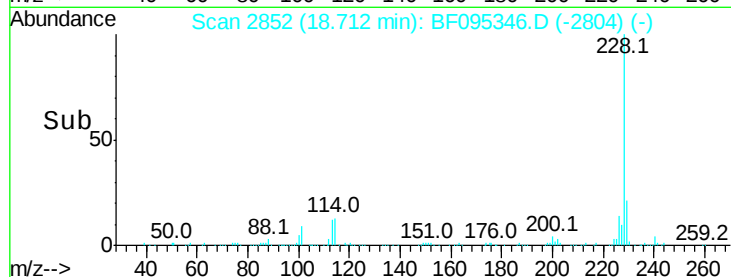
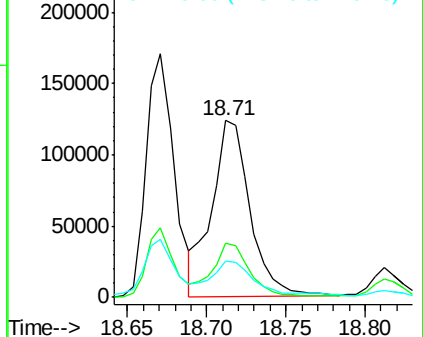
229 20.8 15.8 23.6



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: 6.40 ng

RT: 21.71 min Scan# 3361

Delta R.T. 0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

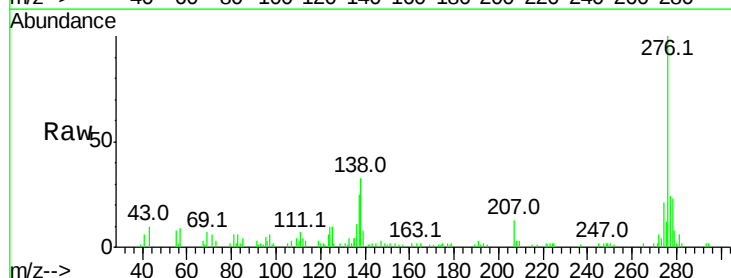
Tgt Ion:276 Resp: 56510

Ion Ratio Lower Upper

276 100

138 27.6 27.8 41.6#

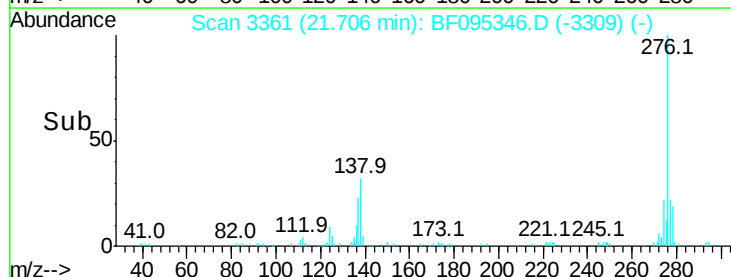
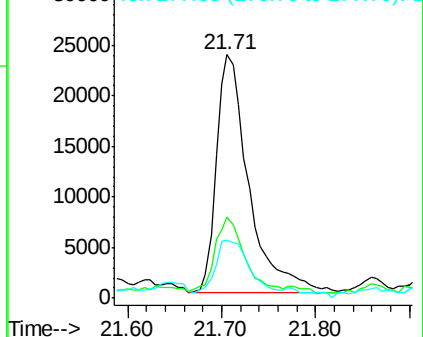
277 22.0 20.2 30.4

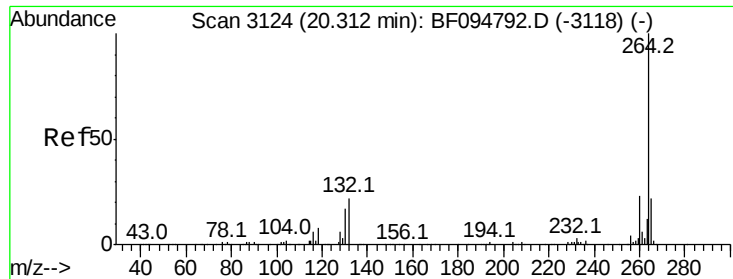


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

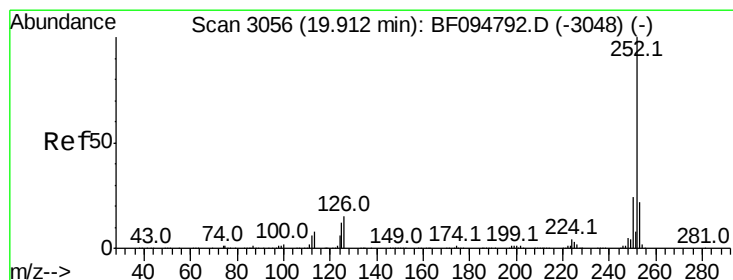
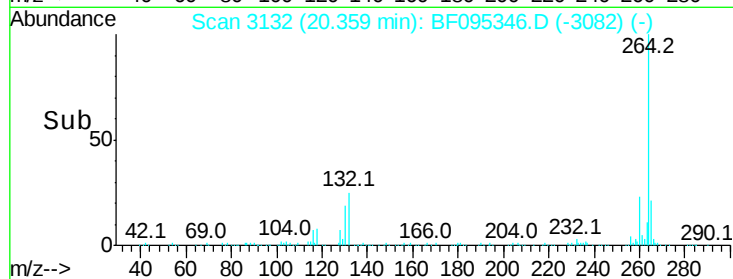
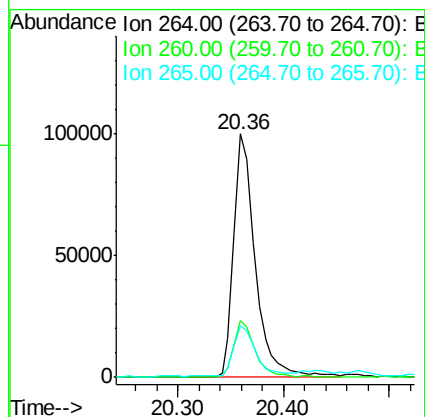
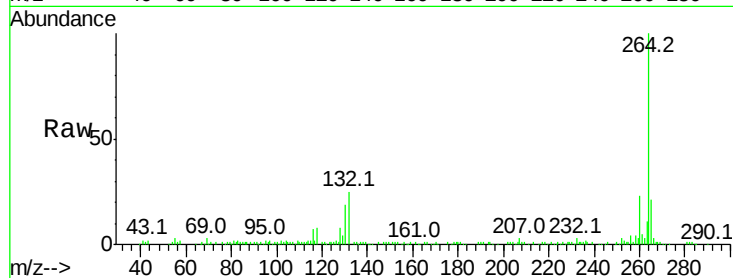




#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.36 min Scan# 3132
Delta R.T. -0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

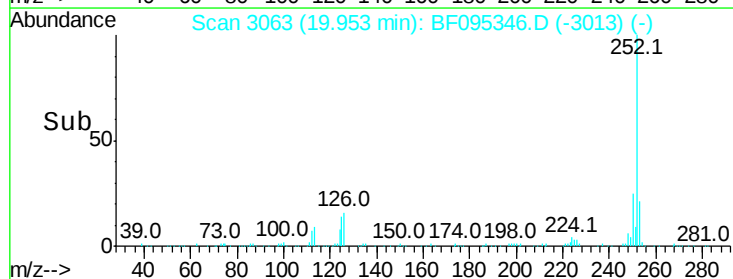
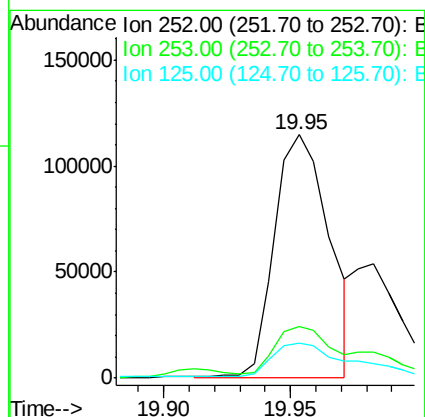
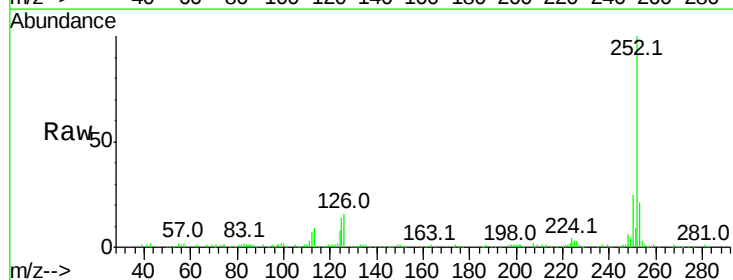
Instrument :
BNA_F
ClientSampleId :
RO-72-11975

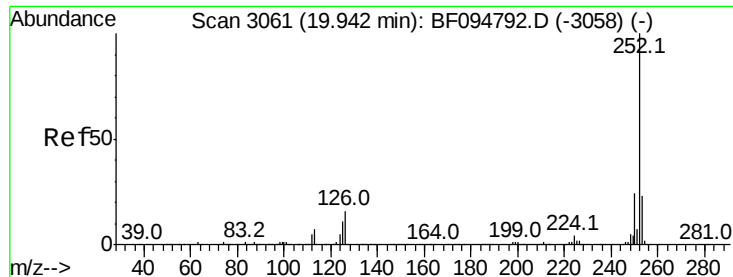
Tot Ion:264 Resp: 141536
Ion Ratio Lower Upper
264 100
260 23.5 19.5 29.3
265 21.4 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 19.72 ng m
RT: 19.95 min Scan# 3063
Delta R.T. -0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Tgt Ion:252 Resp: 172493
Ion Ratio Lower Upper
252 100
253 21.1 18.1 27.1
125 14.2 9.8 14.8

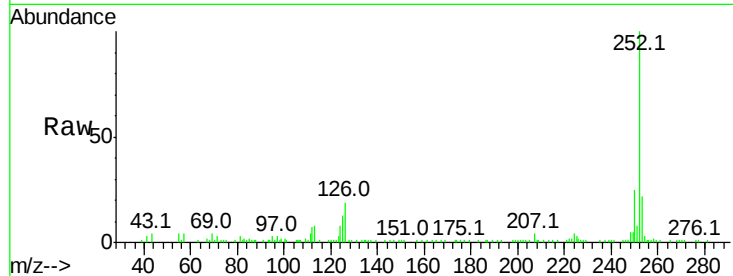




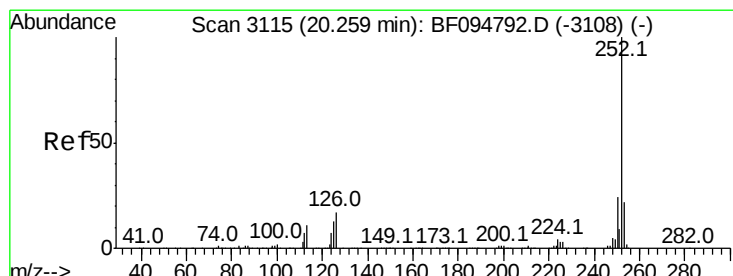
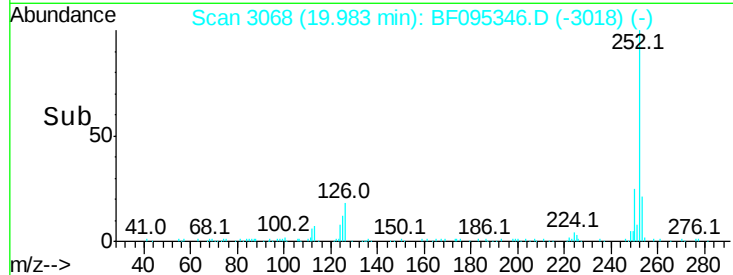
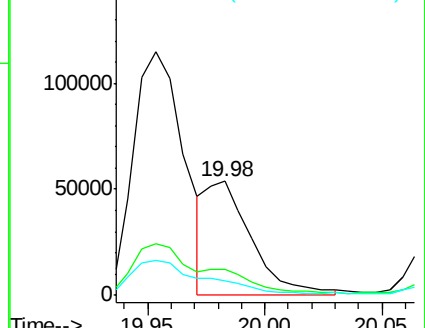
#88
Benzo(k)fluoranthene
Concen: 8.63 ng m
RT: 19.98 min Scan# 3068
Delta R.T. -0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Instrument :
BNA_F
ClientSampleId :
RO-72-11975

Tot Ion:252 Resp: 72834
Ion Ratio Lower Upper
252 100
253 22.4 18.4 27.6
125 13.1 13.1 19.7

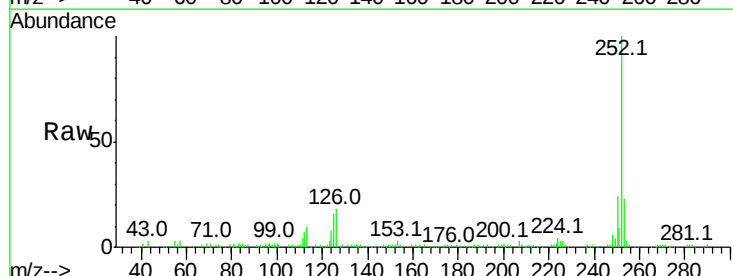


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

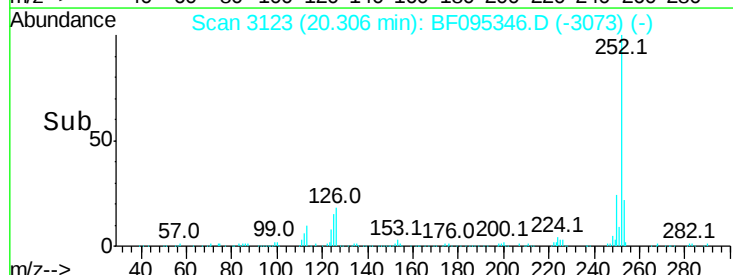
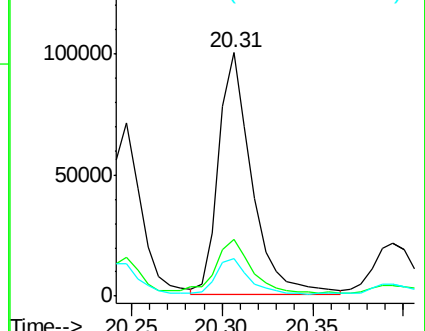


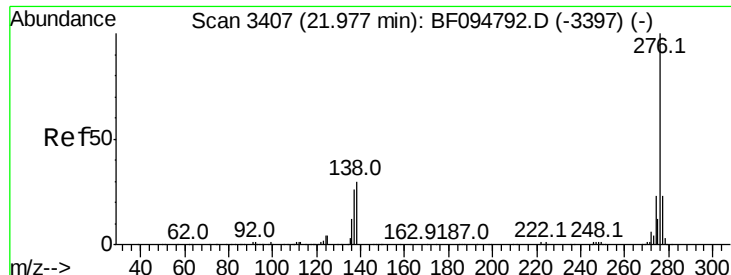
#89
Benzo(a)pyrene
Concen: 15.69 ng
RT: 20.31 min Scan# 3123
Delta R.T. -0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Tgt Ion:252 Resp: 126658
Ion Ratio Lower Upper
252 100
253 23.1 17.5 26.3
125 15.5 11.0 16.4



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





#91

Benzo(a,h,i)perylene

Concen: 8.84 ng

RT: 22.09 min Scan# 3427

Delta R.T. 0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Instrument :

BNA_F

ClientSampleId :

RO-72-11975

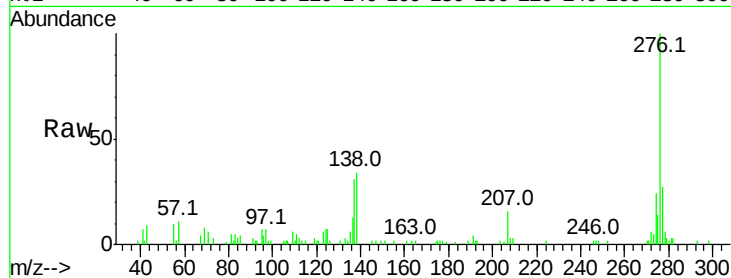
Tot Ion: 276 Resp: 57800

Ion Ratio Lower Upper

276 100

277 26.9 18.6 28.0

138 33.7 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

