

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031517\
 Data File : BF093700.D
 Acq On : 16 Mar 2017 9:32
 Operator : SJ/MA
 Sample : I2264-17DL 5X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-EE9-BASEDL

Quant Time: Mar 16 15:12:45 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 13 15:05:08 2017
 Response via : Initial Calibration

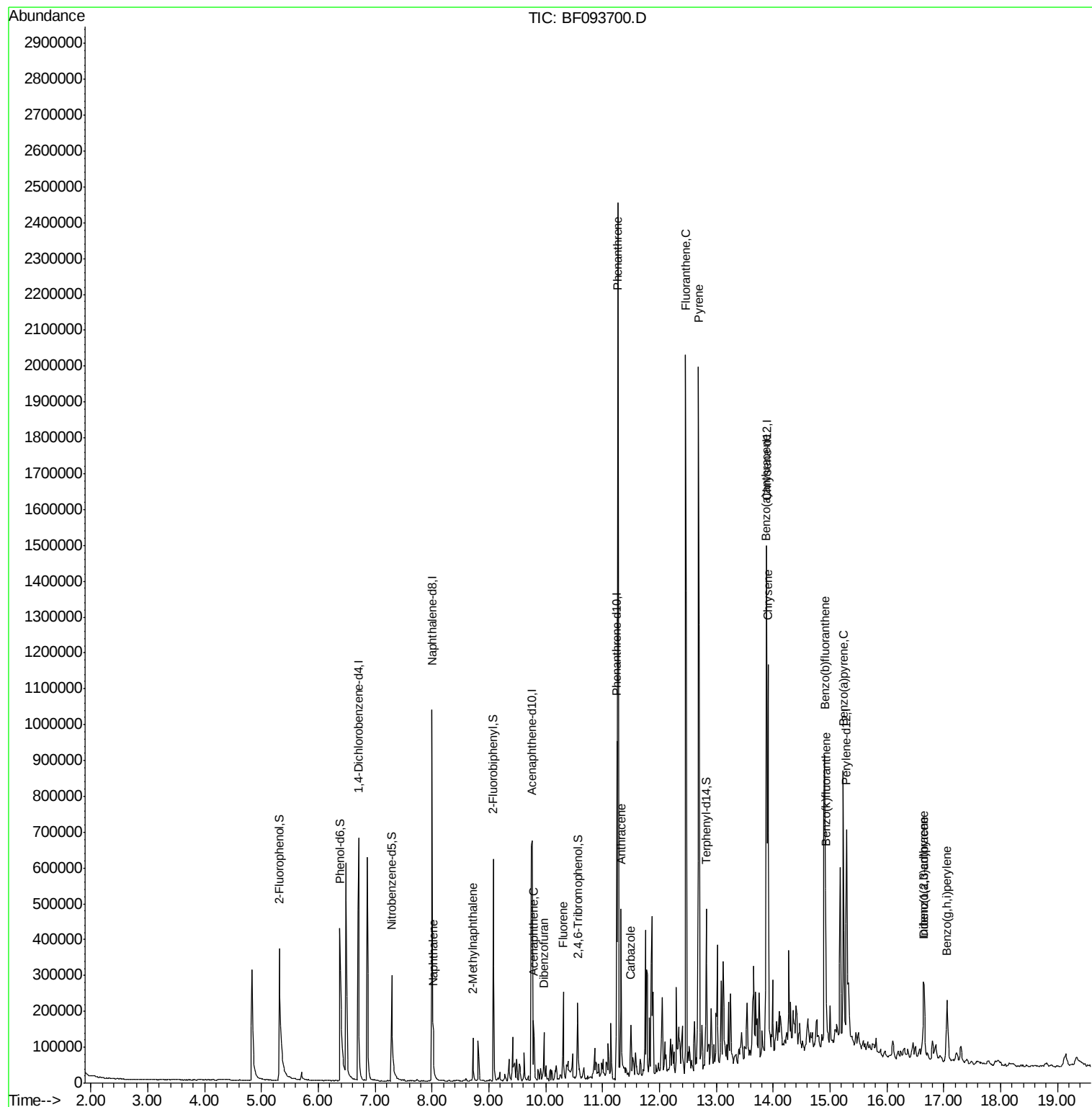
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	145231	20.00	ng	-0.01
21) Naphthalene-d8	8.00	136	522824	20.00	ng	-0.01
38) Acenaphthene-d10	9.76	164	192147	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	310131	20.00	ng	0.00
75) Chrysene-d12	13.89	240	321683	20.00	ng	0.00
86) Perylene-d12	15.29	264	281880	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	233229	26.73	ng	0.00
7) Phenol-d6	6.38	99	329486	29.94	ng	0.00
23) Nitrobenzene-d5	7.29	82	171769	18.23	ng	-0.01
41) 2,4,6-Tribromophenol	10.56	330	25016	19.98	ng	0.01
44) 2-Fluorobiphenyl	9.08	172	229899	22.25	ng	-0.01
78) Terphenyl-d14	12.82	244	142359	11.51	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.02	128	61449	2.35	ng	98
37) 2-Methylnaphthalene	8.72	142	36216	2.17	ng	96
51) Acenaphthene	9.78	154	46339	4.43	ng	97
54) Dibenzofuran	9.97	168	45248	3.46	ng	# 98
57) Fluorene	10.31	166	71574	6.46	ng	100
70) Phenanthrene	11.27	178	857737	48.45	ng	99
71) Anthracene	11.33	178	222175	12.41	ng	97
72) Carbazole	11.50	167	49500	2.94	ng	97
74) Fluoranthene	12.46	202	982469	57.46	ng	95
77) Pyrene	12.69	202	998303	42.67	ng	100
80) Benzo(a)anthracene	13.88	228	533606	28.09	ng	99
82) Chrysene	13.91	228	402104	22.88	ng	99
85) Indeno(1,2,3-cd)pyrene	16.65	276	155173	10.55	ng	98
87) Benzo(b)fluoranthene	14.91	252	478756m	27.89	ng	
88) Benzo(k)fluoranthene	14.93	252	138163m	8.35	ng	
89) Benzo(a)pyrene	15.24	252	339919	21.67	ng	98
90) Dibenzo(a,h)anthracene	16.64	278	30859m	2.38	ng	
91) Benzo(g,h,i)perylene	17.05	276	137741	10.34	ng	# 88

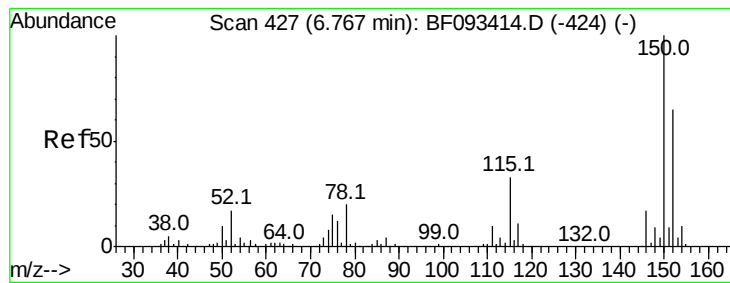
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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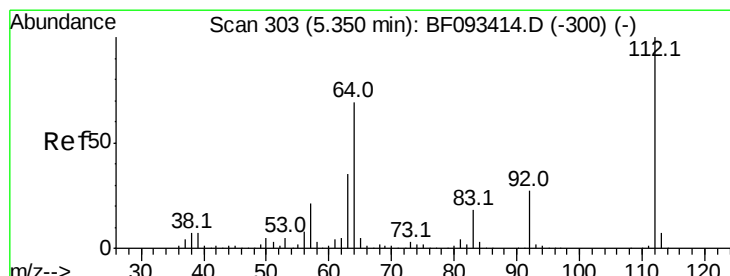
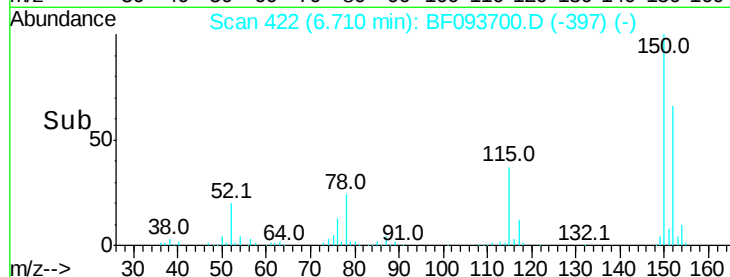
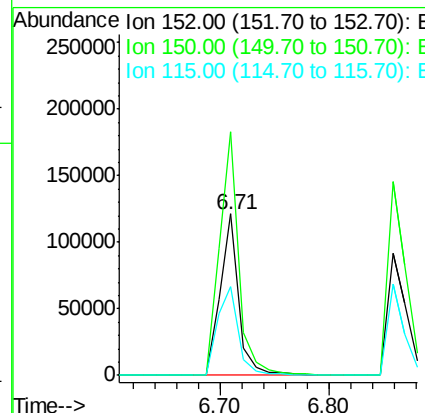
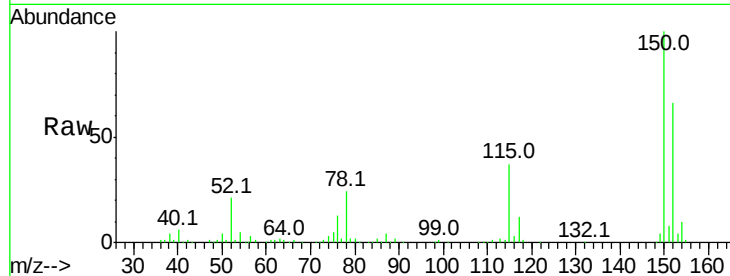


#1

1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.71 min Scan# 422
 Delta R.T. -0.01 min
 Lab File: BF093700.D
 Acq: 16 Mar 2017 9:32

Instrument :
 BNA_F
 ClientSampleId :
 E2-EE9-BASEDL

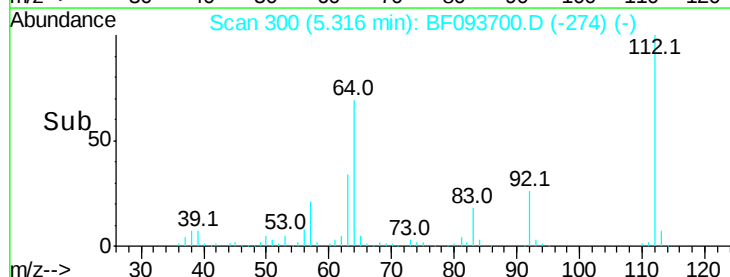
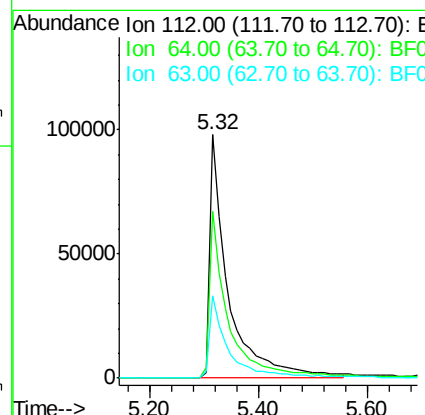
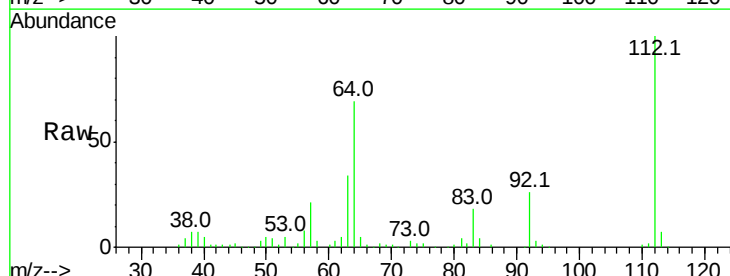
Tot Ion	Ratio	Lower	Upper
152	100		
150	150.6	124.9	187.3
115	55.0	46.0	69.0

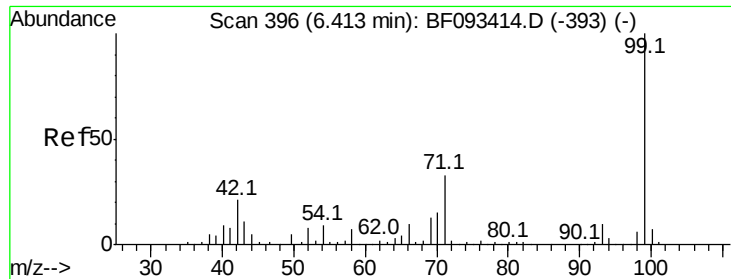


#5

2-Fluorophenol
 Concen: 26.73 ng
 RT: 5.32 min Scan# 300
 Delta R.T. -0.00 min
 Lab File: BF093700.D
 Acq: 16 Mar 2017 9:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.7	46.1	69.1
63	33.9	23.8	35.6





#7

Phenol-d6

Concen: 29.94 ng

RT: 6.38 min Scan# 393

Delta R.T. -0.00 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

Instrument :

BNA_F

ClientSampleId :

E2-EE9-BASEDL

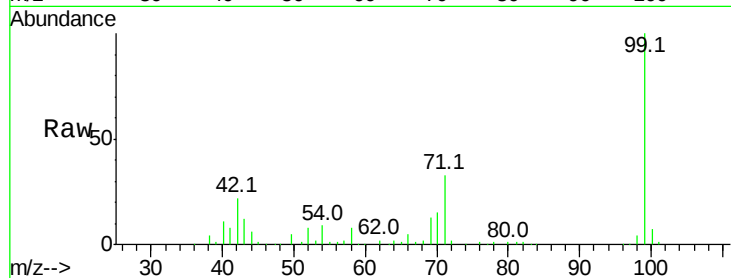
Tot Ion: 99 Resp: 329486

Ion Ratio Lower Upper

99 100

42 22.1 15.6 23.4

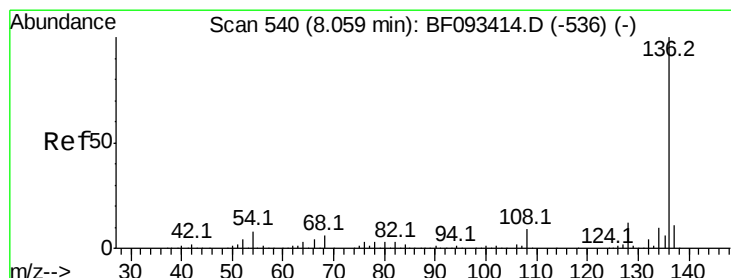
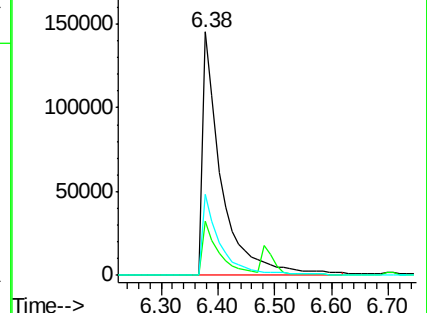
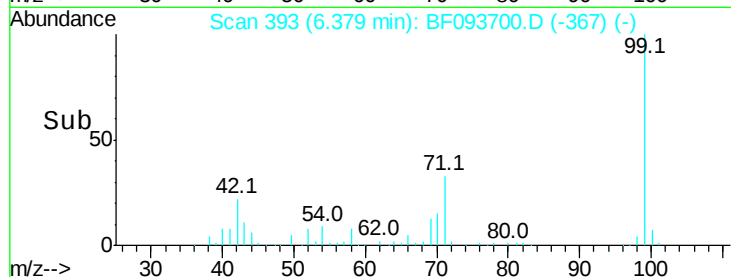
71 33.4 27.5 41.3



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: 8.00 min Scan# 535

Delta R.T. -0.01 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

Tgt Ion: 136 Resp: 522824

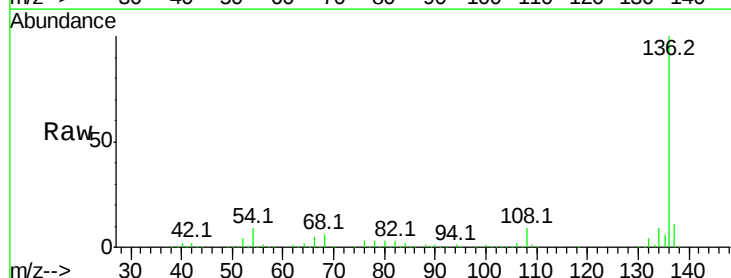
Ion Ratio Lower Upper

136 100

137 10.8 8.4 12.6

54 8.6 4.5 6.7#

68 6.4 3.6 5.4#

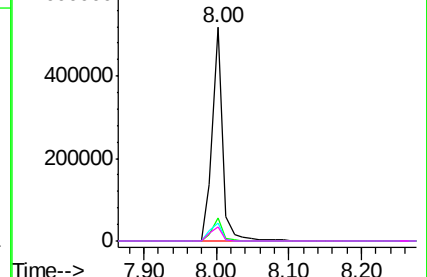
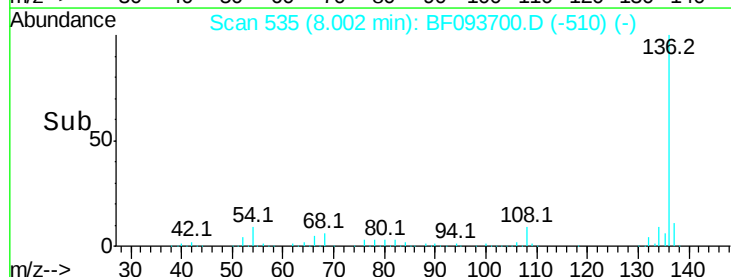


Abundance Ion 136.00 (135.70 to 136.70): E

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

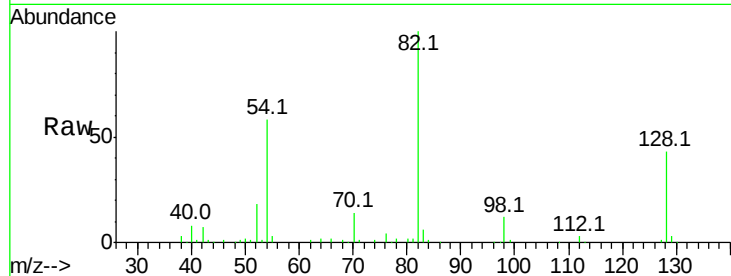




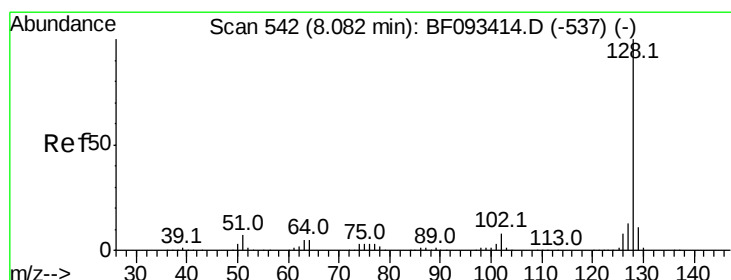
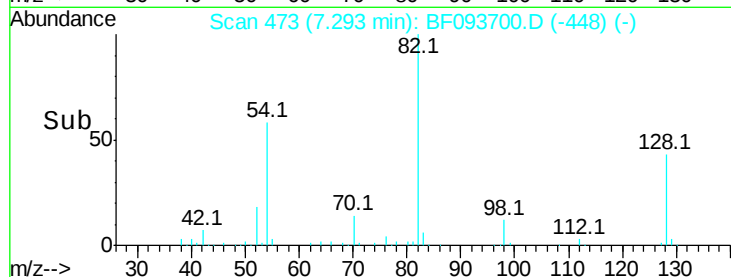
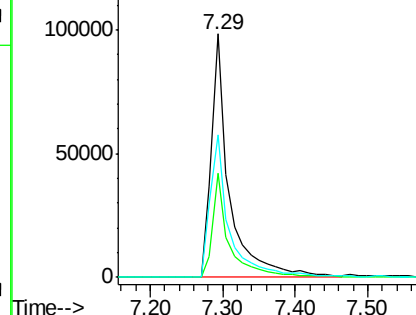
#23
 Nitrobenzene-d5
 Concen: 18.23 ng
 RT: 7.29 min Scan# 473
 Delta R.T. -0.01 min
 Lab File: BF093700.D
 Acq: 16 Mar 2017 9:32

Instrument :
 BNA_F
 ClientSampleId :
 E2-EE9-BASEDL

Tot Ion: 82 Resp: 171769
 Ion Ratio Lower Upper
 82 100
 128 42.6 34.6 52.0
 54 58.5 39.5 59.3

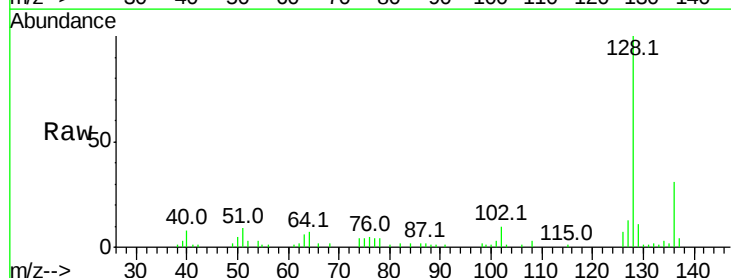


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

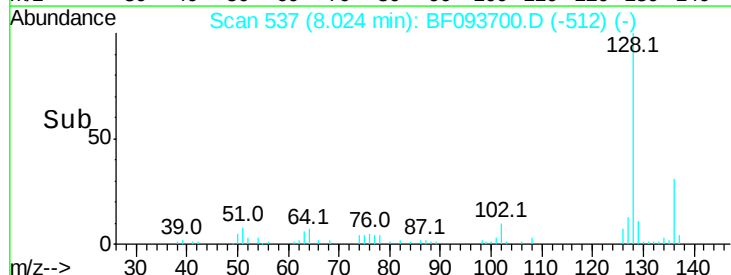
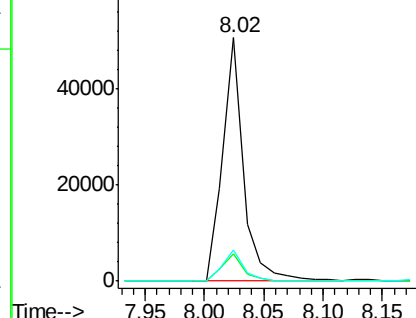


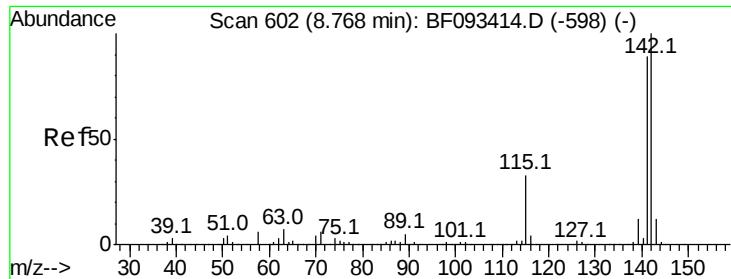
#31
 Naphthalene
 Concen: 2.35 ng
 RT: 8.02 min Scan# 537
 Delta R.T. -0.01 min
 Lab File: BF093700.D
 Acq: 16 Mar 2017 9:32

Tgt Ion: 128 Resp: 61449
 Ion Ratio Lower Upper
 128 100
 129 11.1 9.5 14.3
 127 13.1 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E

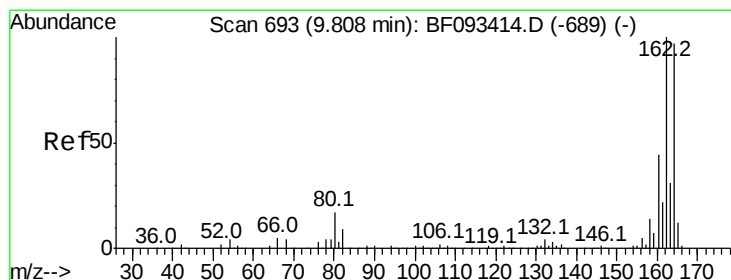
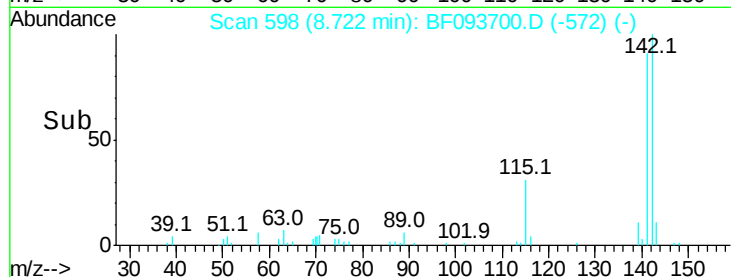
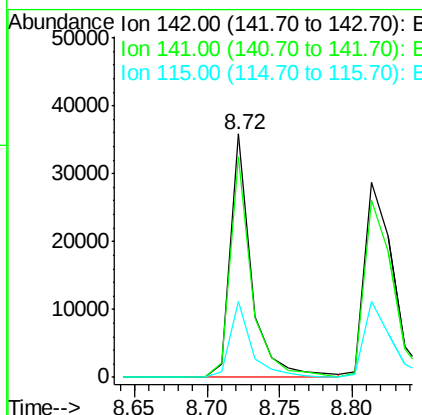
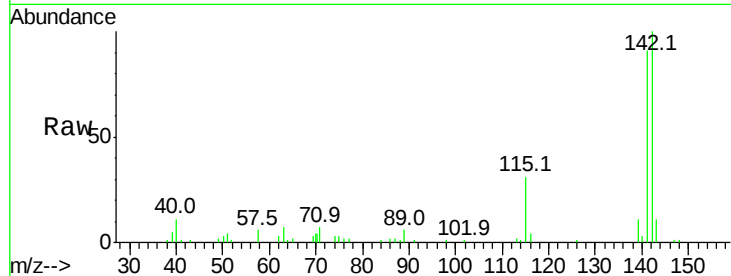




#37
2-Methylnaphthalene
Concen: 2.17 ng
RT: 8.72 min Scan# 598
Delta R.T. -0.00 min
Lab File: BF093700.D
Acq: 16 Mar 2017 9:32

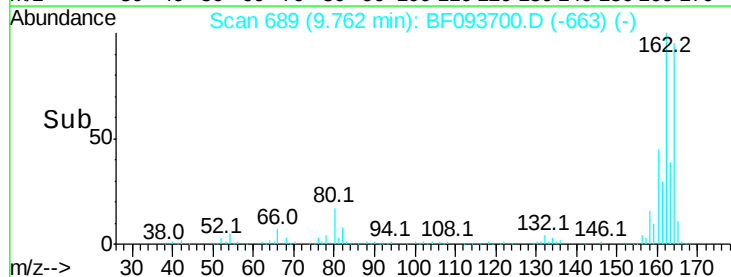
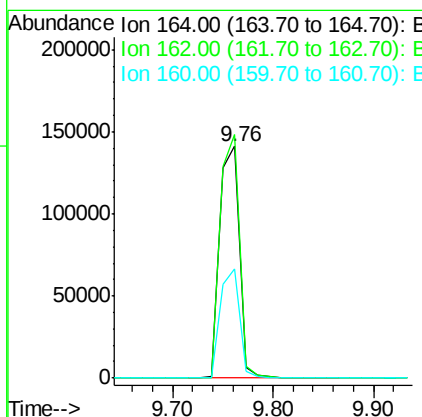
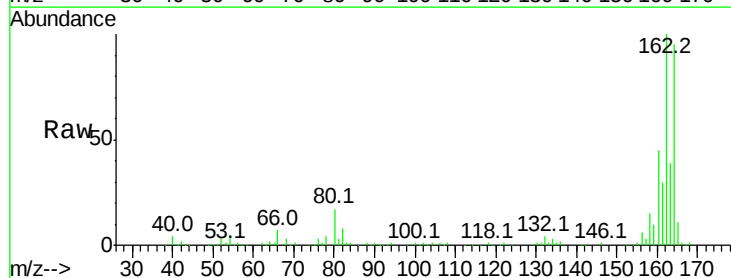
Instrument :
BNA_F
ClientSampleId :
E2-EE9-BASEDL

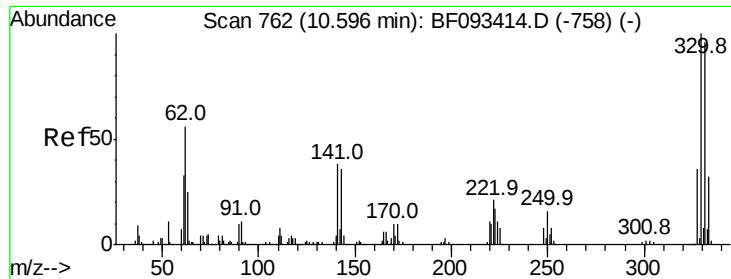
Tot Ion:142 Resp: 36216
Ion Ratio Lower Upper
142 100
141 90.7 71.0 106.6
115 31.1 28.3 42.5



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.76 min Scan# 689
Delta R.T. -0.00 min
Lab File: BF093700.D
Acq: 16 Mar 2017 9:32

Tgt Ion:164 Resp: 192147
Ion Ratio Lower Upper
164 100
162 105.1 80.2 120.2
160 47.1 36.9 55.3

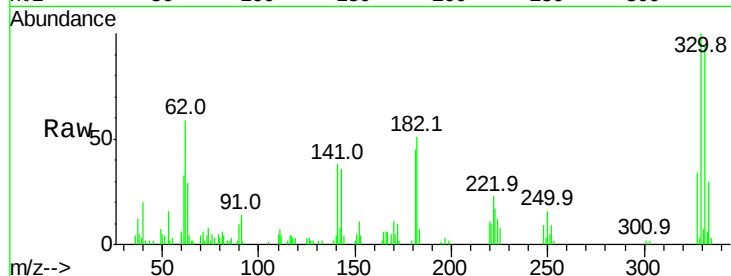




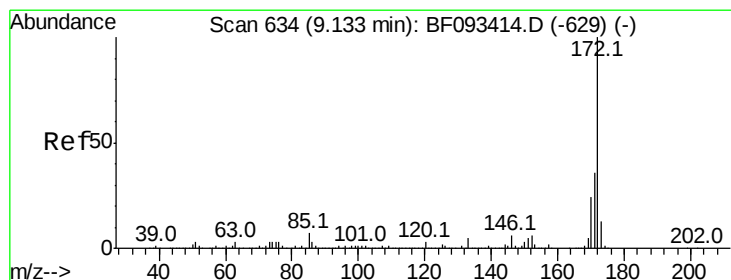
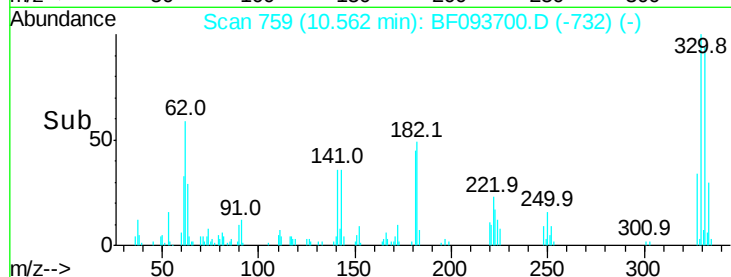
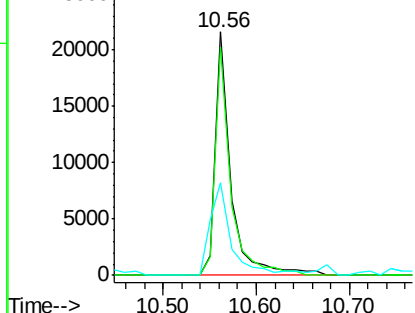
#41
 2,4,6-Tribromophenol
 Concen: 19.98 ng
 RT: 10.56 min Scan# 759
 Delta R.T. 0.01 min
 Lab File: BF093700.D
 Acq: 16 Mar 2017 9:32

Instrument :
 BNA_F
 ClientSampleId :
 E2-EE9-BASEDL

Tot Ion:330 Resp: 25016
 Ion Ratio Lower Upper
 330 100
 332 92.2 77.4 116.2
 141 53.1 34.1 51.1#

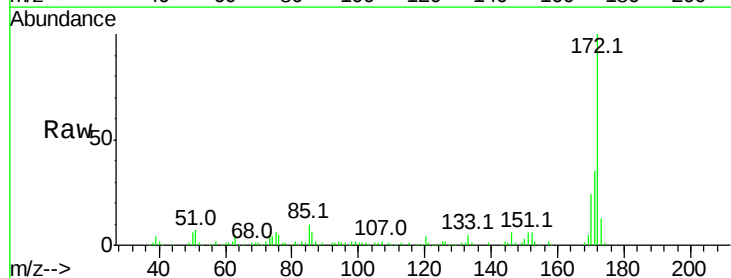


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

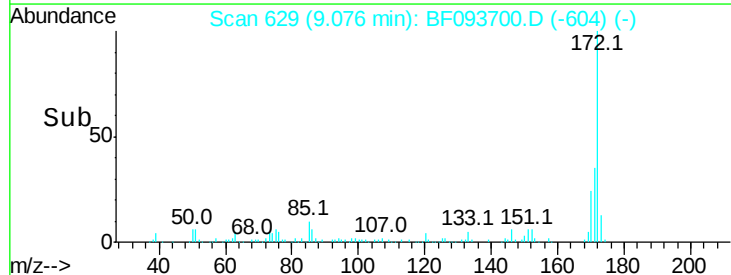
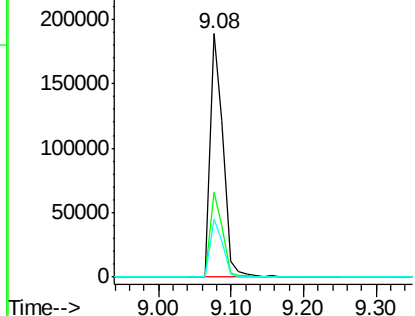


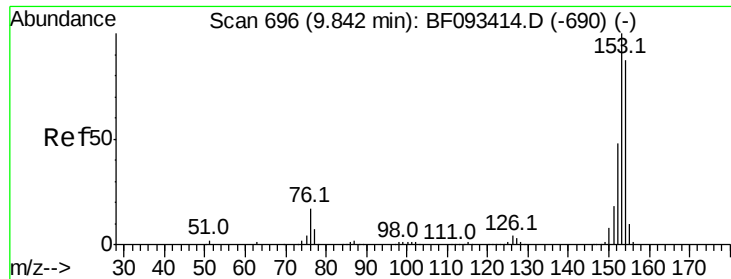
#44
 2-Fluorobiphenyl
 Concen: 22.25 ng
 RT: 9.08 min Scan# 629
 Delta R.T. -0.01 min
 Lab File: BF093700.D
 Acq: 16 Mar 2017 9:32

Tgt Ion:172 Resp: 229899
 Ion Ratio Lower Upper
 172 100
 171 35.1 29.4 44.0
 170 23.8 20.2 30.4



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

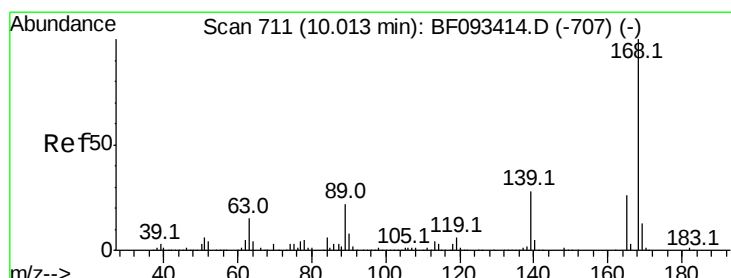
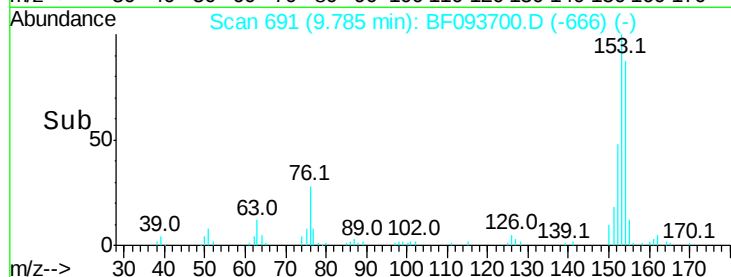
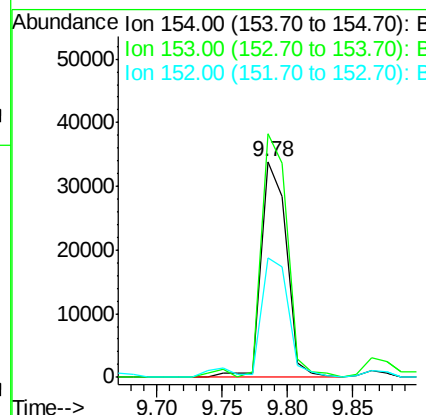
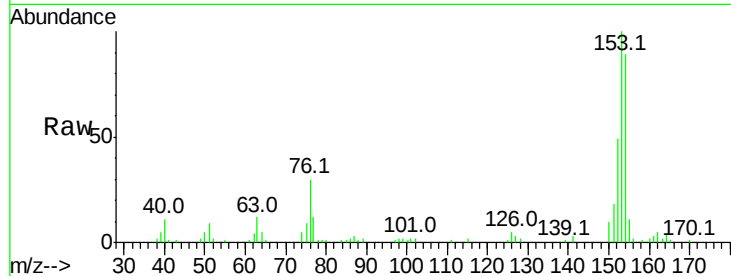




#51
Acenaphthene
Concen: 4.43 ng
RT: 9.78 min Scan# 691
Delta R.T. -0.01 min
Lab File: BF093700.D
Acq: 16 Mar 2017 9:32

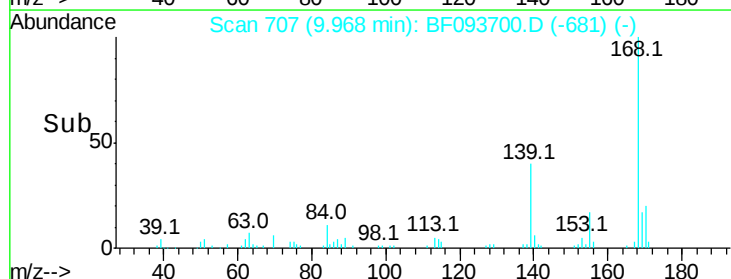
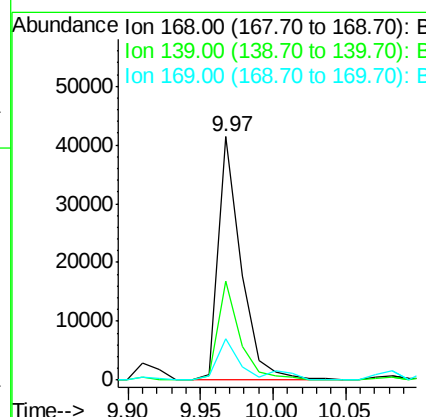
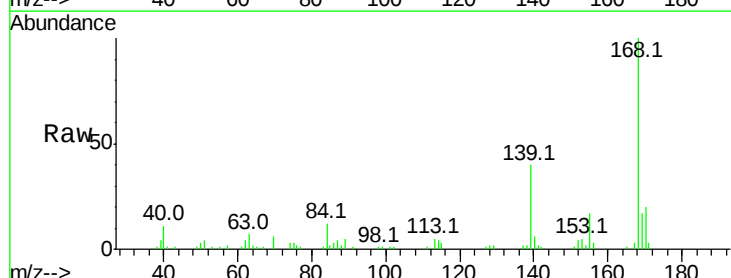
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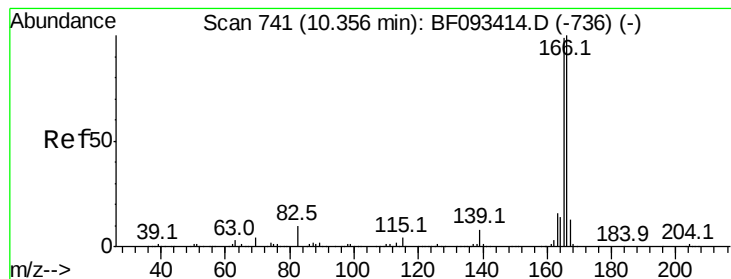
Tot Ion:154 Resp: 46339
Ion Ratio Lower Upper
154 100
153 112.7 88.6 133.0
152 55.2 41.6 62.4



#54
Dibenzofuran
Concen: 3.46 ng
RT: 9.97 min Scan# 707
Delta R.T. -0.00 min
Lab File: BF093700.D
Acq: 16 Mar 2017 9:32

Tgt Ion:168 Resp: 45248
Ion Ratio Lower Upper
168 100
139 40.4 32.6 49.0
169 17.1 11.3 16.9#





#57

Fluorene

Concen: 6.46 ng

RT: 10.31 min Scan# 737

Delta R.T. -0.00 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

Instrument :

BNA_F

ClientSampleId :

E2-EE9-BASEDL

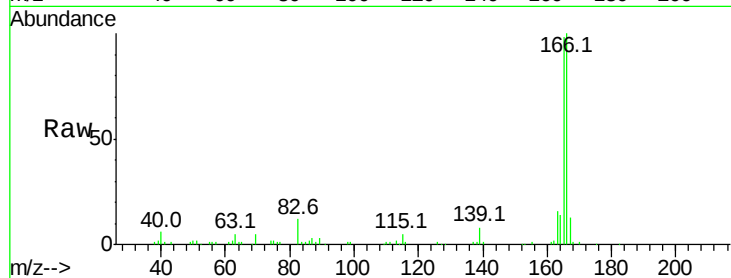
Tot Ion:166 Resp: 71574

Ion Ratio Lower Upper

166 100

165 97.6 77.8 116.8

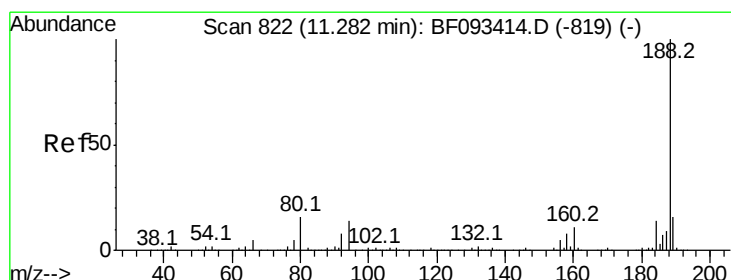
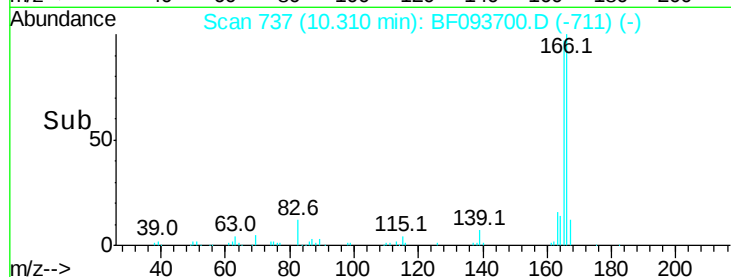
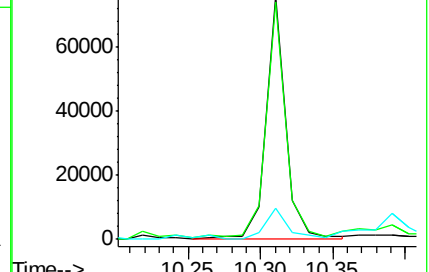
167 13.0 10.8 16.2



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: 11.25 min Scan# 819

Delta R.T. -0.00 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

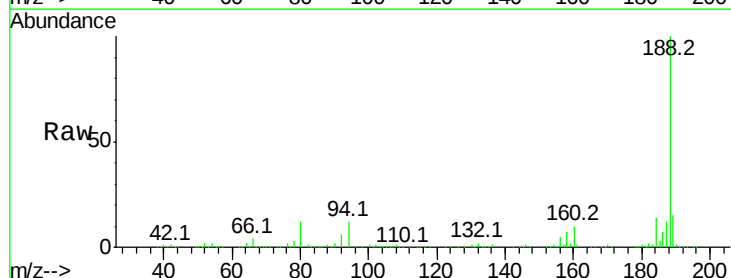
Tgt Ion:188 Resp: 310131

Ion Ratio Lower Upper

188 100

94 11.8 10.0 15.0

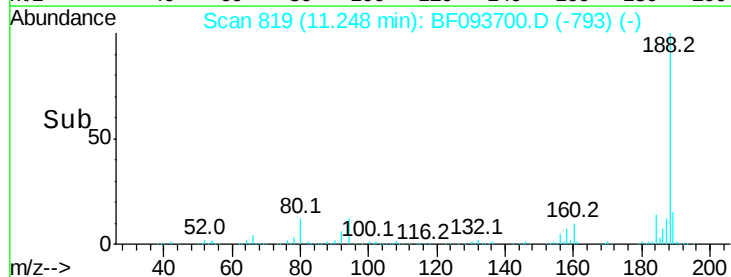
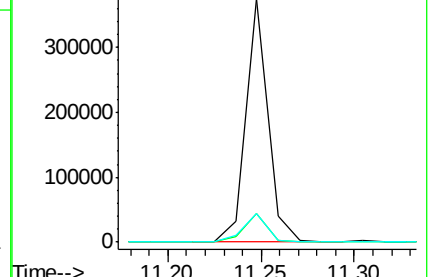
80 11.5 11.2 16.8

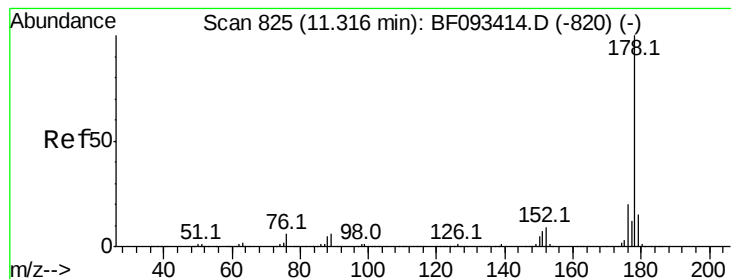


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 48.45 ng

RT: 11.27 min Scan# 821

Delta R.T. -0.00 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

Instrument :

BNA_F

ClientSampleId :

E2-EE9-BASEDL

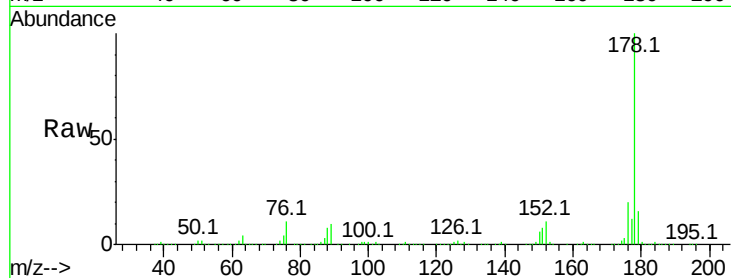
Tot Ion:178 Resp: 857737

Ion Ratio Lower Upper

178 100

176 20.5 16.6 25.0

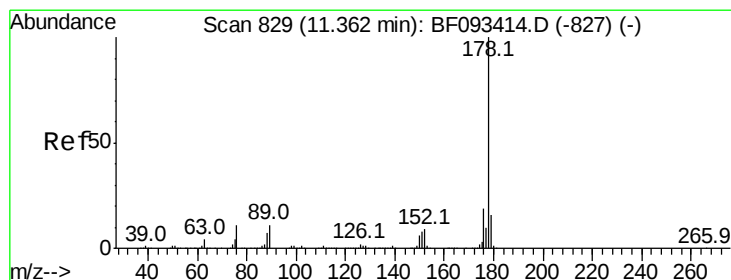
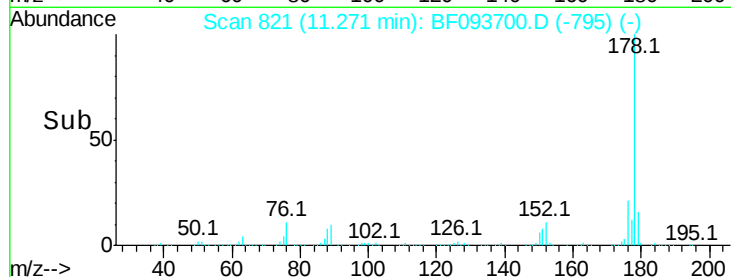
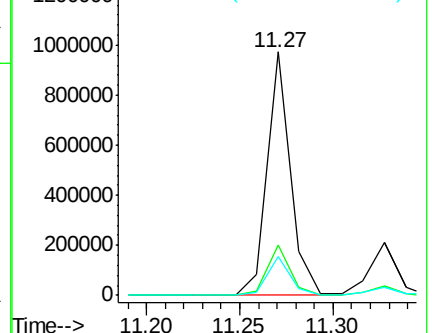
179 15.8 12.8 19.2



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: 12.41 ng

RT: 11.33 min Scan# 826

Delta R.T. 0.01 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

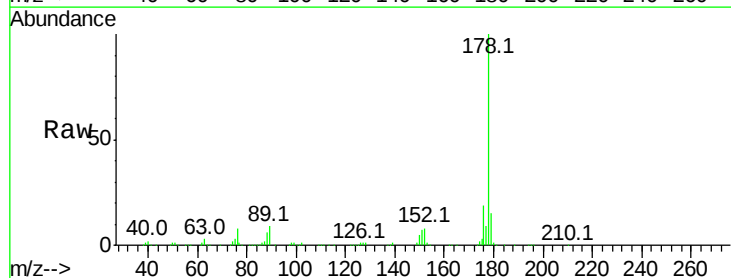
Tgt Ion:178 Resp: 222175

Ion Ratio Lower Upper

178 100

176 18.7 15.9 23.9

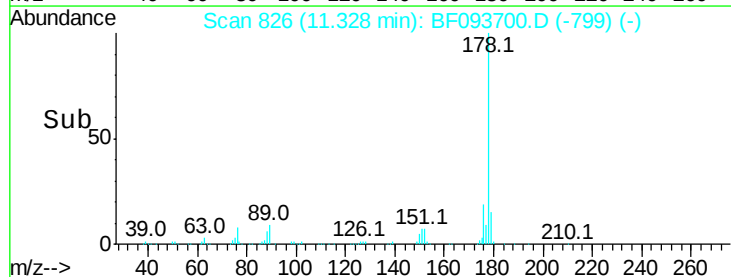
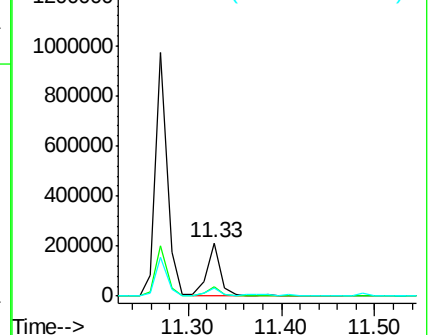
179 14.9 13.2 19.8

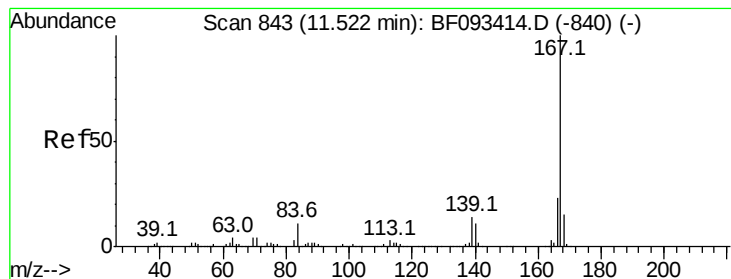


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.94 ng

RT: 11.50 min Scan# 841

Delta R.T. 0.01 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

Instrument :

BNA_F

ClientSampleId :

E2-EE9-BASEDL

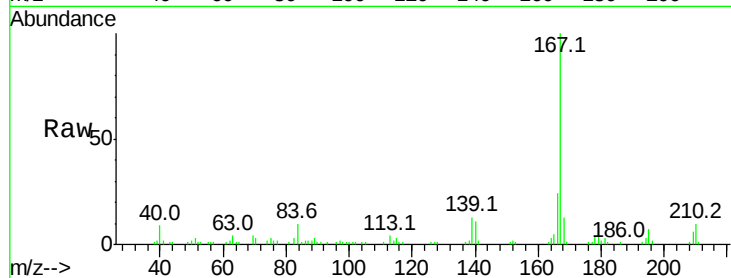
Tot Ion:167 Resp: 49500

Ion Ratio Lower Upper

167 100

166 24.1 18.2 27.2

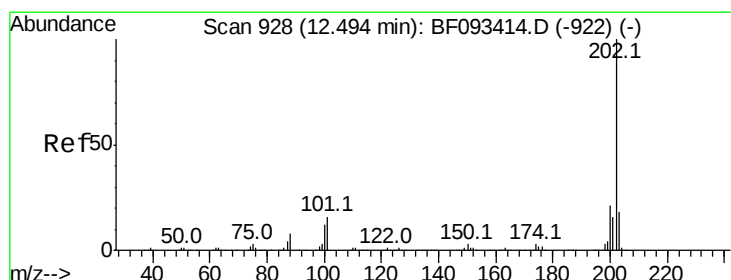
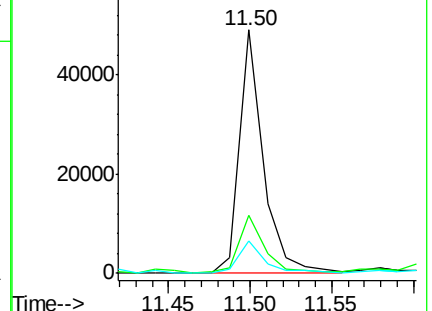
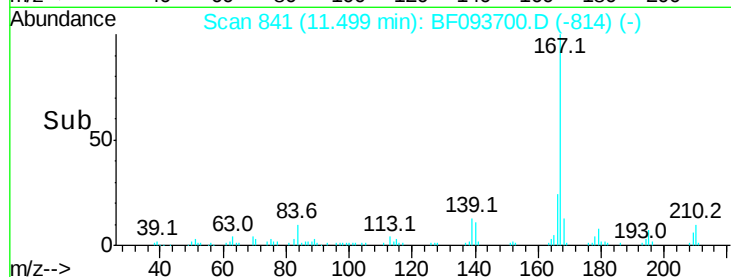
139 13.1 11.4 17.2



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: 57.46 ng

RT: 12.46 min Scan# 925

Delta R.T. -0.00 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

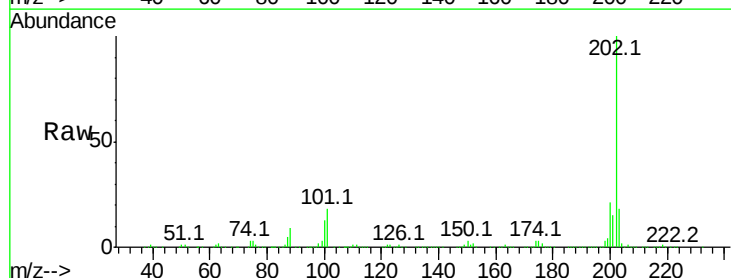
Tgt Ion:202 Resp: 982469

Ion Ratio Lower Upper

202 100

101 18.2 0.0 34.6

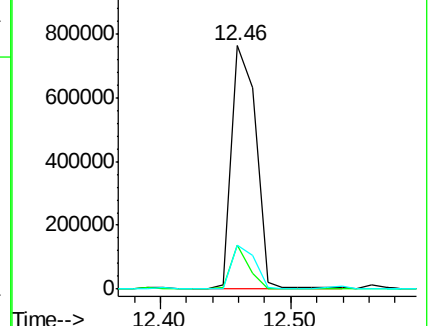
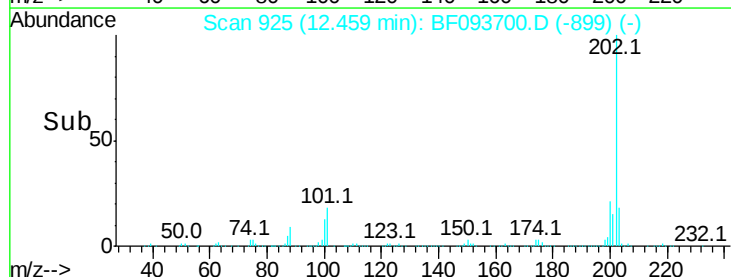
203 18.2 0.0 38.7

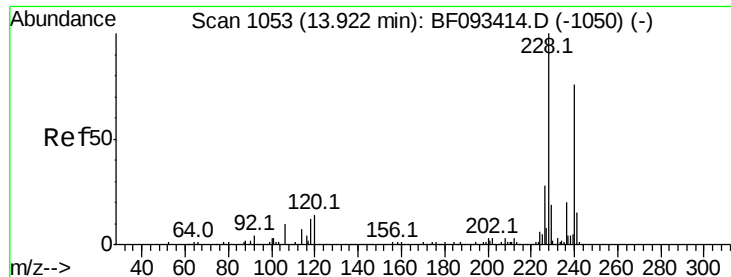


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.89 min Scan# 1050

Delta R.T. -0.00 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

Instrument :

BNA_F

ClientSampleId :

E2-EE9-BASEDL

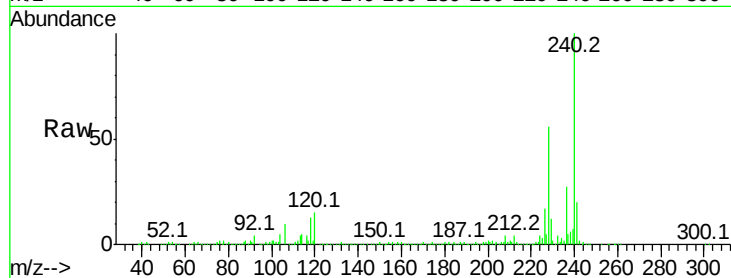
Tot Ion:240 Resp: 321683

Ion Ratio Lower Upper

240 100

120 15.3 12.9 19.3

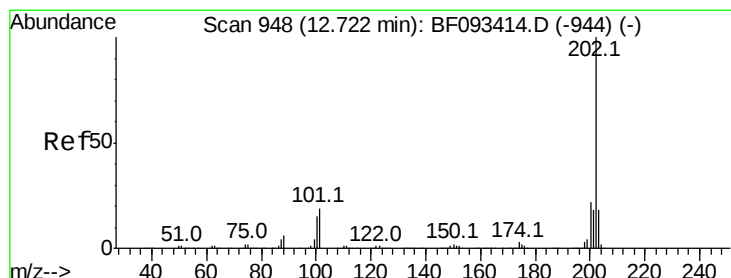
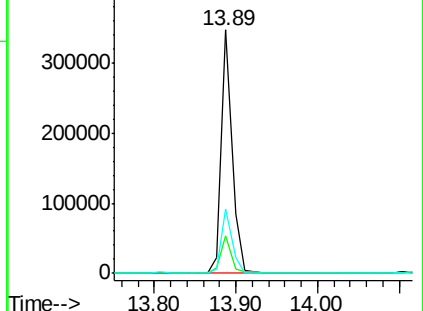
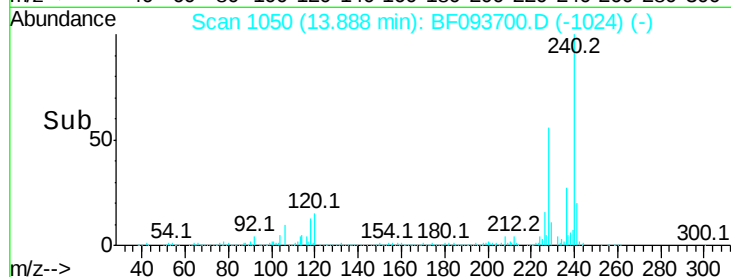
236 26.7 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 42.67 ng

RT: 12.69 min Scan# 945

Delta R.T. 0.01 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

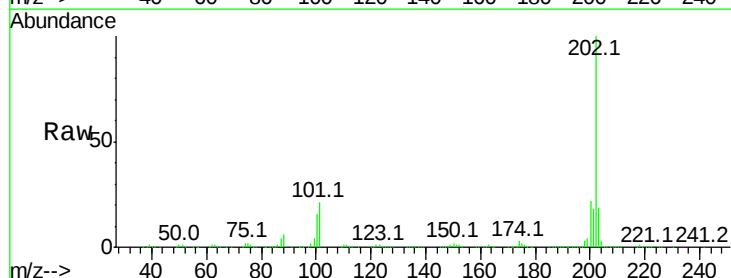
Tgt Ion:202 Resp: 998303

Ion Ratio Lower Upper

202 100

200 21.8 17.7 26.5

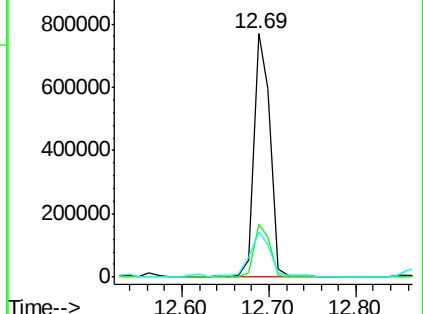
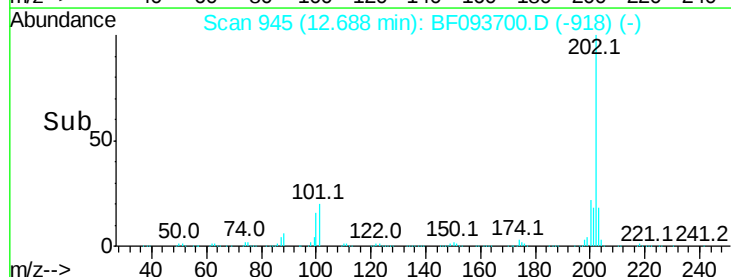
203 18.5 14.7 22.1

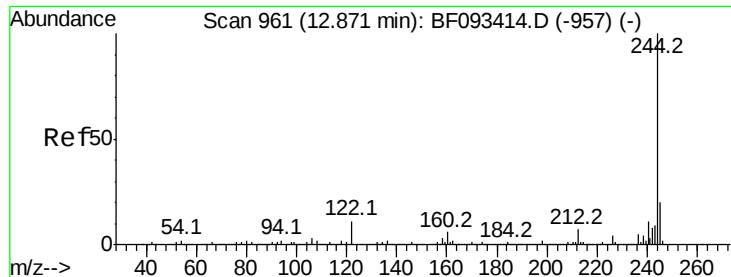


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 11.51 ng

RT: 12.82 min Scan# 957

Delta R.T. -0.00 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

Instrument :

BNA_F

ClientSampleId :

E2-EE9-BASEDL

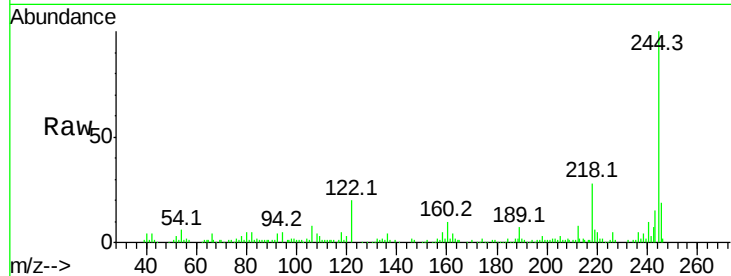
Tot Ion:244 Resp: 142359

Ion Ratio Lower Upper

244 100

212 8.1 6.2 9.2

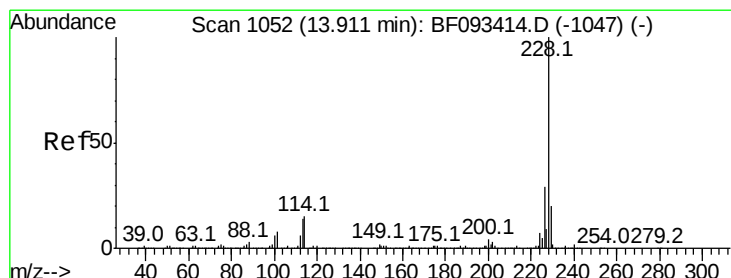
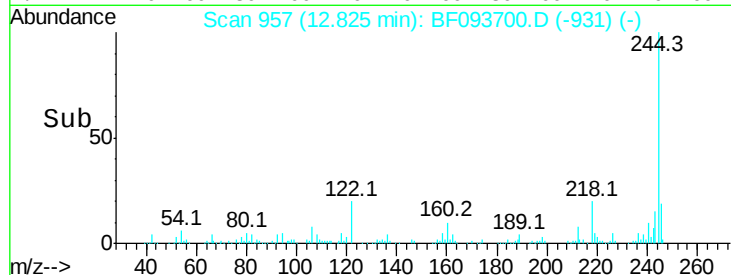
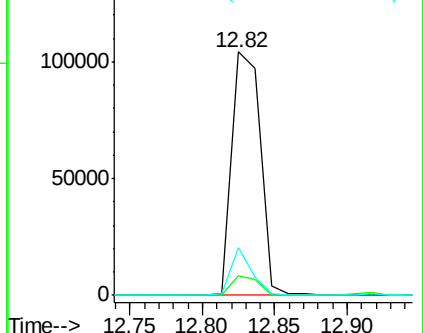
122 19.5 11.4 17.2#



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: 28.09 ng

RT: 13.88 min Scan# 1049

Delta R.T. 0.01 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

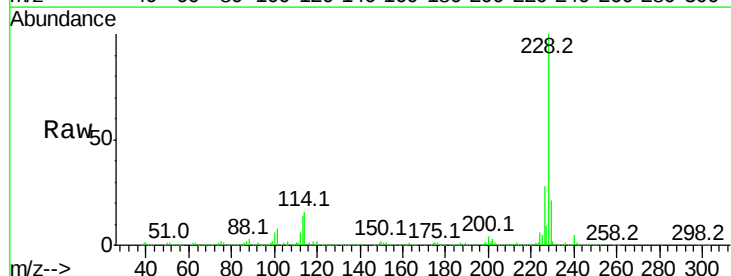
Tgt Ion:228 Resp: 533606

Ion Ratio Lower Upper

228 100

226 28.3 22.4 33.6

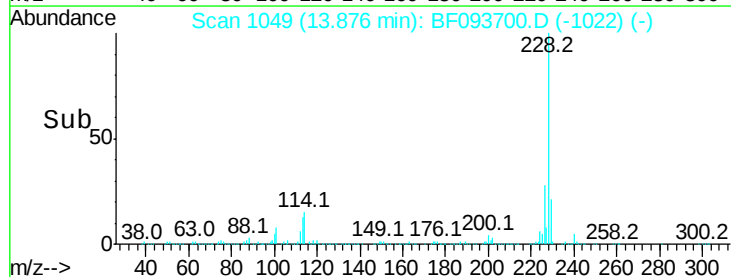
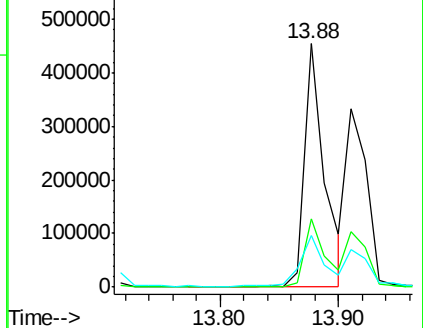
229 21.3 16.2 24.4

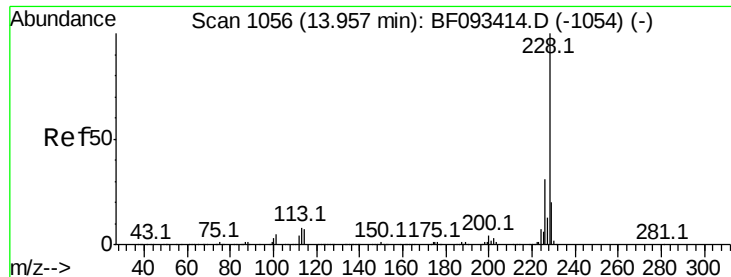


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 22.88 ng

RT: 13.91 min Scan# 1052

Delta R.T. -0.00 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

Instrument :

BNA_F

ClientSampleId :

E2-EE9-BASEDL

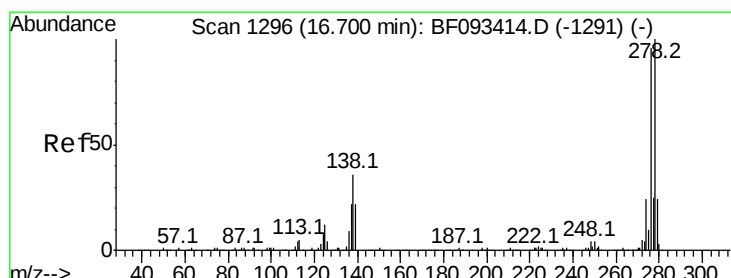
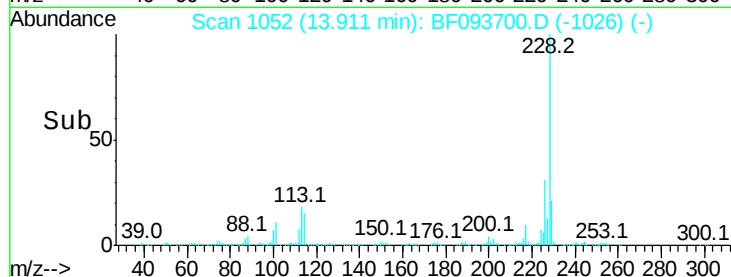
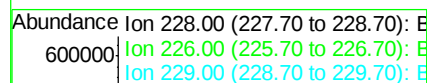
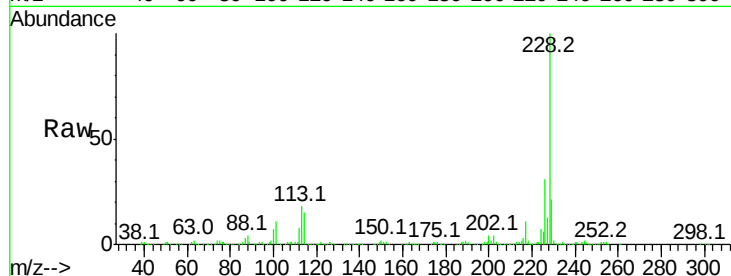
Tot Ion:228 Resp: 402104

Ion Ratio Lower Upper

228 100

226 31.4 25.4 38.0

229 21.1 16.2 24.2



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.55 ng

RT: 16.65 min Scan# 1292

Delta R.T. 0.03 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

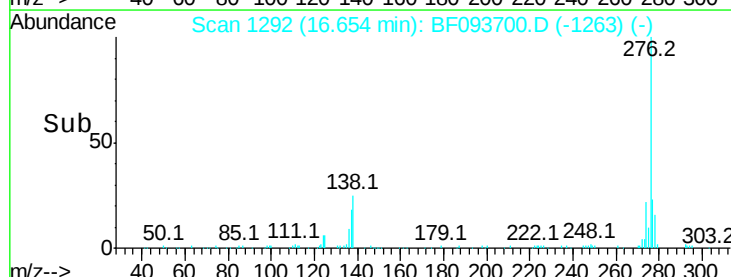
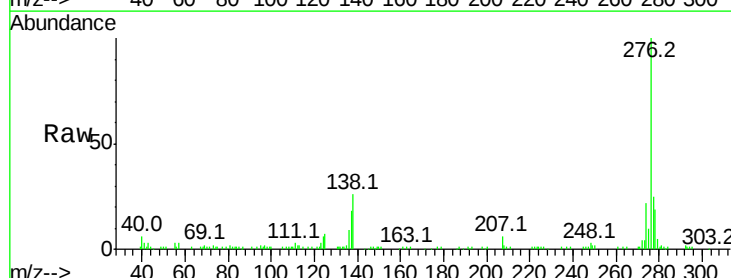
Tgt Ion:276 Resp: 155173

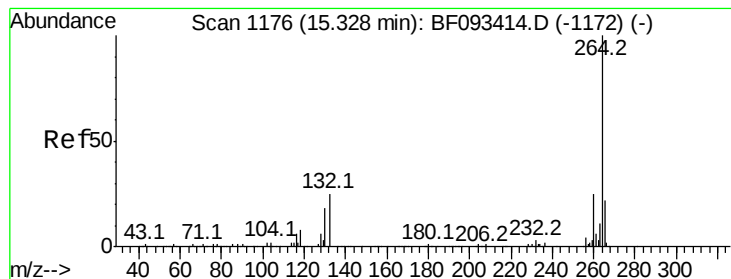
Ion Ratio Lower Upper

276 100

138 26.6 21.8 32.6

277 23.6 20.2 30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.29 min Scan# 1173

Delta R.T. 0.01 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

Instrument :

BNA_F

ClientSampleId :

E2-EE9-BASEDL

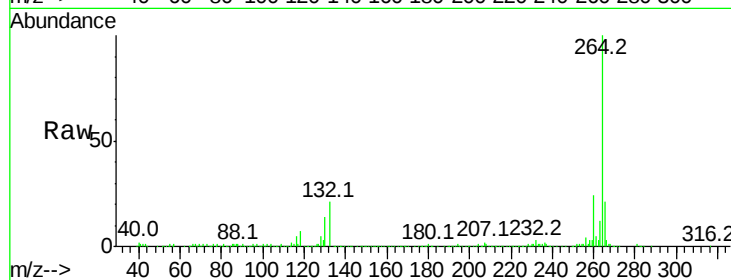
Tot Ion:264 Resp: 281880

Ion Ratio Lower Upper

264 100

260 23.9 19.2 28.8

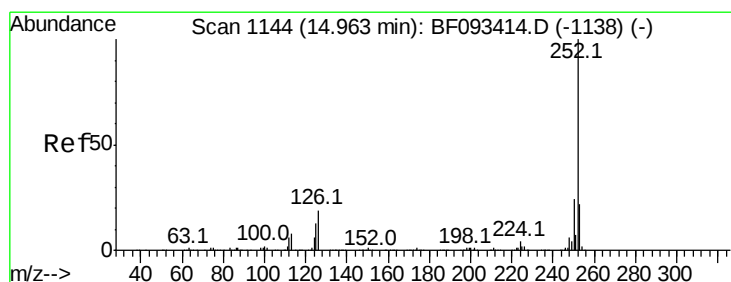
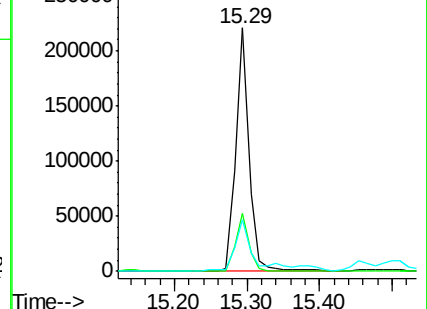
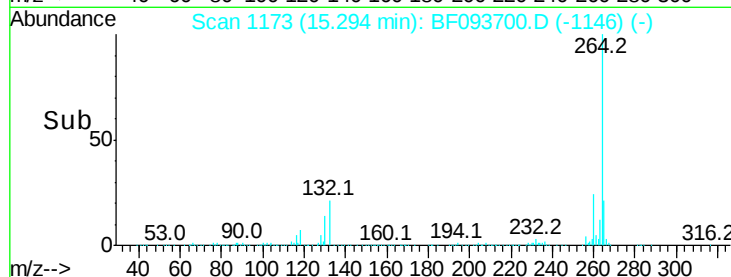
265 21.4 17.4 26.0



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: 27.89 ng m

RT: 14.91 min Scan# 1139

Delta R.T. 0.01 min

Lab File: BF093700.D

Acq: 16 Mar 2017 9:32

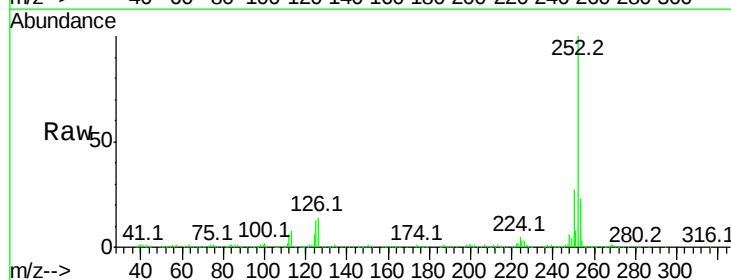
Tgt Ion:252 Resp: 478756

Ion Ratio Lower Upper

252 100

253 22.7 18.2 27.4

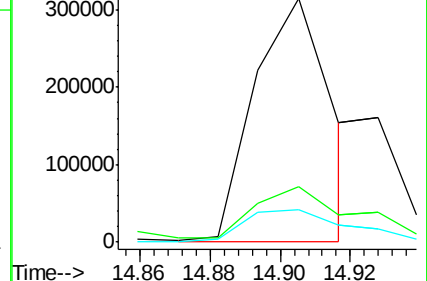
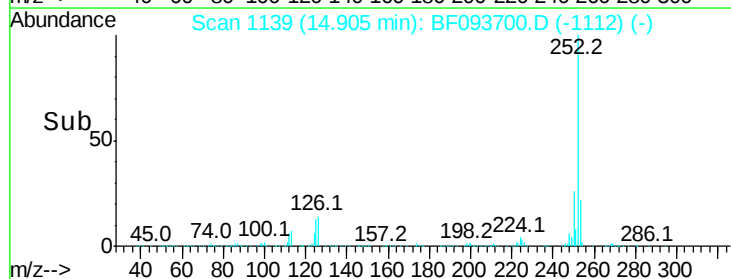
125 13.5 9.8 14.6

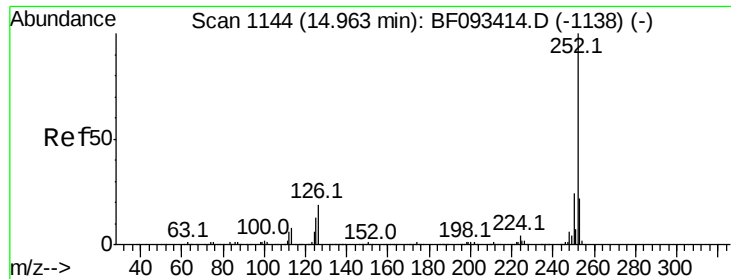


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

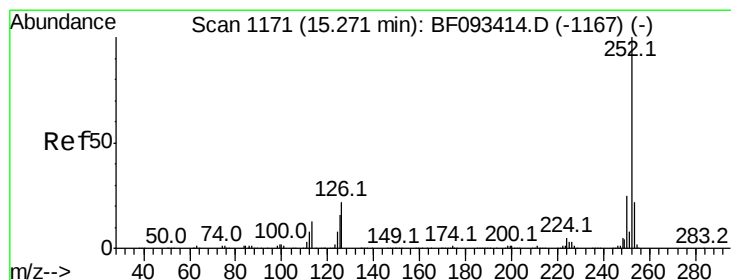
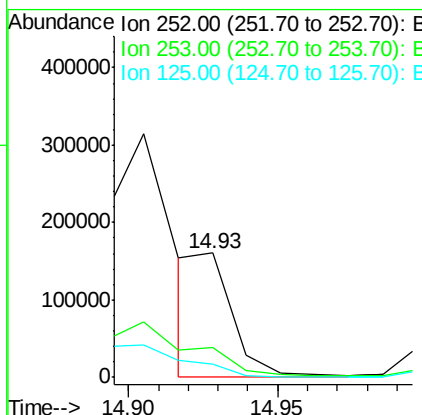
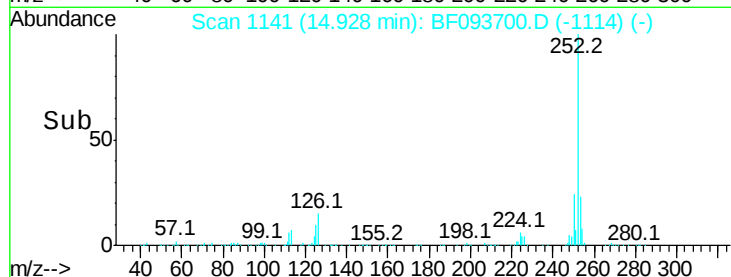
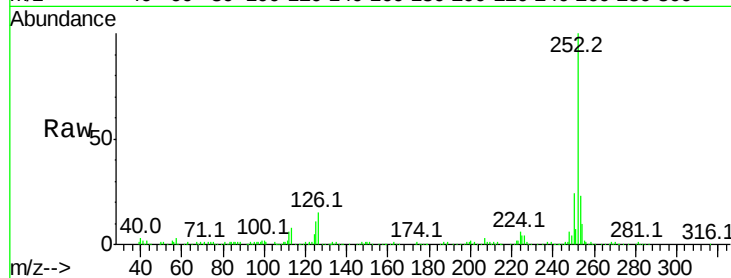




#88
Benzo(k)fluoranthene
Concen: 8.35 ng m
RT: 14.93 min Scan# 1141
Delta R.T. 0.01 min
Lab File: BF093700.D
Acq: 16 Mar 2017 9:32

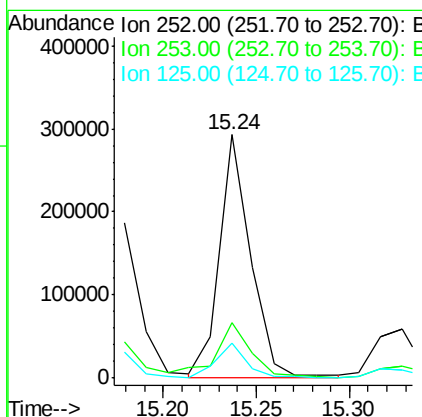
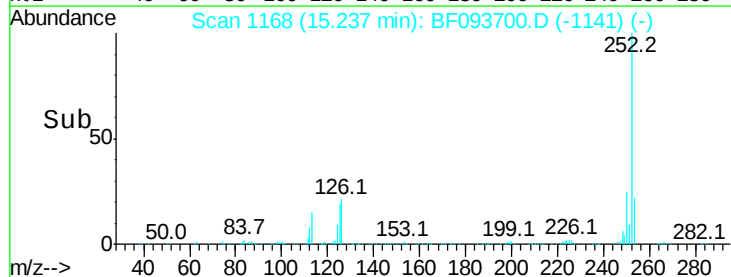
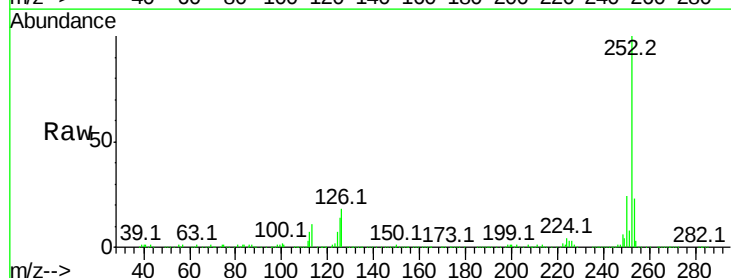
Instrument :
BNA_F
ClientSampleId :
E2-EE9-BASEDL

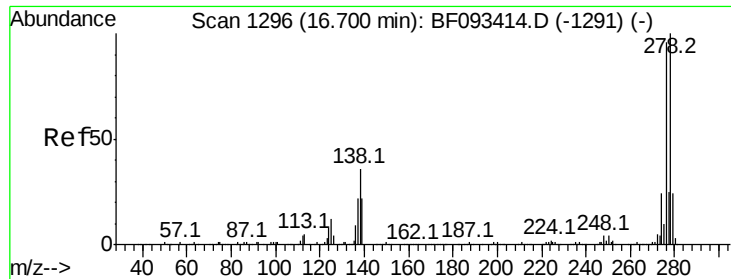
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.5	27.7
125	10.6	8.9	13.3



#89
Benzo(a)pyrene
Concen: 21.67 ng
RT: 15.24 min Scan# 1168
Delta R.T. 0.01 min
Lab File: BF093700.D
Acq: 16 Mar 2017 9:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.2	27.2
125	14.2	10.0	15.0

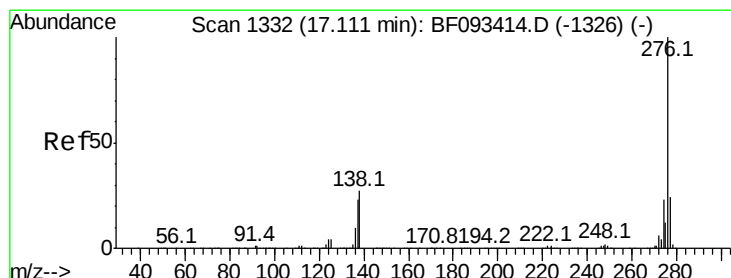
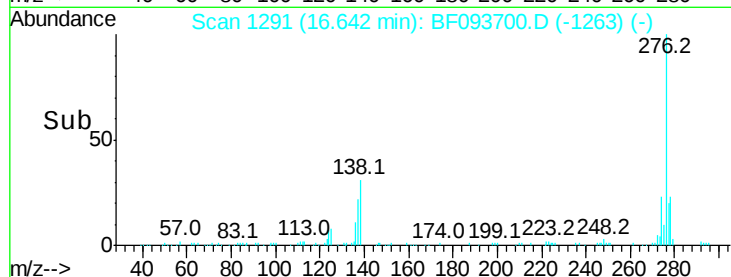
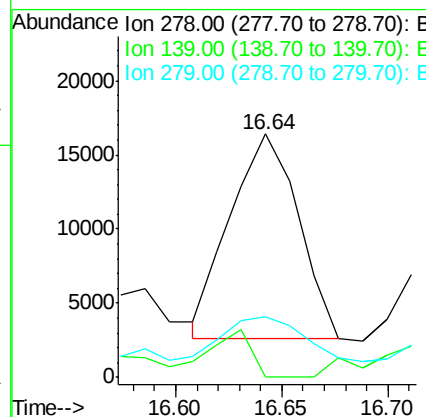
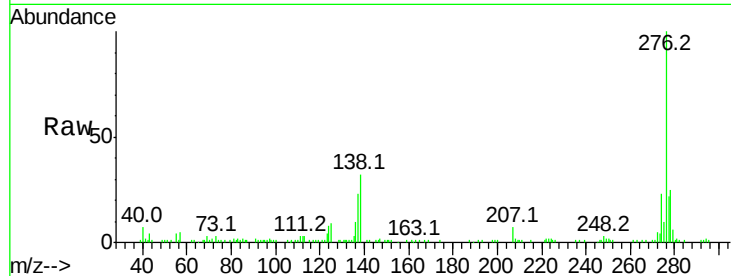




#90
Dibenzo(a,h)anthracene
Concen: 2.38 ng
RT: 16.64 min Scan# 1291
Delta R.T. 0.02 min
Lab File: BF093700.D
Acq: 16 Mar 2017 9:32

Instrument :
BNA_F
ClientSampleId :
E2-EE9-BASEDL

Tot Ion:278 Resp: 30859
Ion Ratio Lower Upper
278 100
139 0.0 14.8 22.2#
279 25.0 19.8 29.6



#91
Benzo(g,h,i)perylene
Concen: 10.34 ng
RT: 17.05 min Scan# 1327
Delta R.T. 0.03 min
Lab File: BF093700.D
Acq: 16 Mar 2017 9:32

Tgt Ion:276 Resp: 137741
Ion Ratio Lower Upper
276 100
277 24.3 19.2 28.8
138 32.1 16.0 24.0#

