

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031517\
 Data File : BF093699.D
 Acq On : 16 Mar 2017 9:04
 Operator : SJ/MA
 Sample : I2264-14DL 5X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-EE8-WSWDL

Quant Time: Mar 16 14:38:38 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

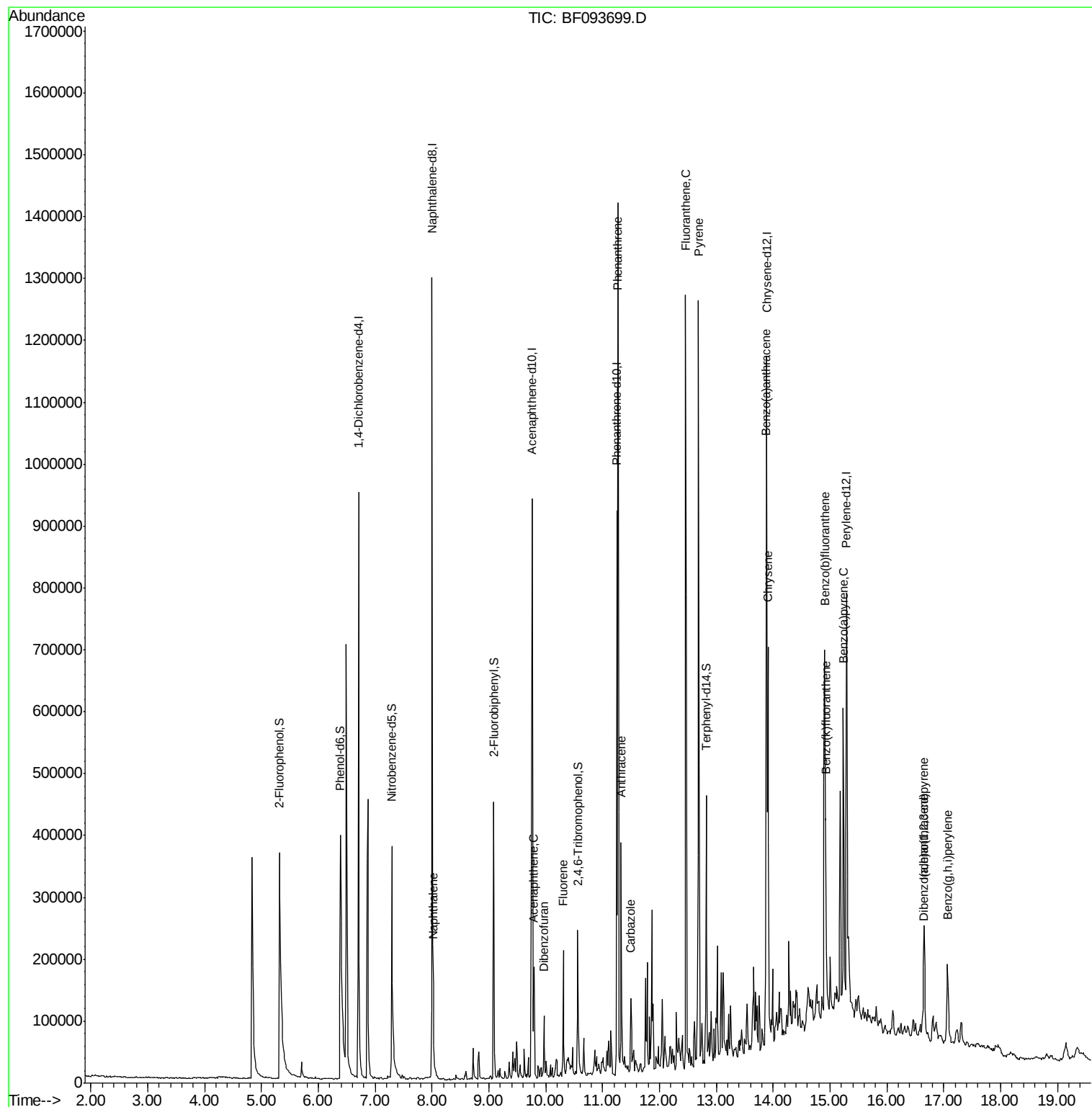
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	155162	20.00	ng	-0.01
21) Naphthalene-d8	8.00	136	556730	20.00	ng	-0.01
38) Acenaphthene-d10	9.76	164	195520	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	314154	20.00	ng	0.00
75) Chrysene-d12	13.89	240	318821	20.00	ng	0.00
86) Perylene-d12	15.29	264	294529	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	257588	27.63	ng	0.00
7) Phenol-d6	6.39	99	317349	26.99	ng	0.01
23) Nitrobenzene-d5	7.29	82	186621	18.60	ng	-0.01
41) 2,4,6-Tribromophenol	10.56	330	29918	23.49	ng	0.01
44) 2-Fluorobiphenyl	9.09	172	214685	20.42	ng	0.00
78) Terphenyl-d14	12.83	244	138117	11.26	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.02	128	65028	2.33	ng	97
51) Acenaphthene	9.80	154	51048	4.80	ng	95
54) Dibenzofuran	9.97	168	44369	3.33	ng	97
57) Fluorene	10.31	166	59772	5.30	ng	95
70) Phenanthrene	11.27	178	554821	30.94	ng	98
71) Anthracene	11.33	178	155135	8.55	ng	98
72) Carbazole	11.50	167	52107	3.06	ng	99
74) Fluoranthene	12.46	202	619391	35.76	ng	96
77) Pyrene	12.69	202	551757	23.80	ng	99
80) Benzo(a)anthracene	13.88	228	321463	17.07	ng	98
82) Chrysene	13.91	228	227852	13.08	ng	99
85) Indeno(1,2,3-cd)pyrene	16.65	276	109720	7.52	ng	96
87) Benzo(b)fluoranthene	14.91	252	324646m	18.10	ng	
88) Benzo(k)fluoranthene	14.93	252	107051m	6.19	ng	
89) Benzo(a)pyrene	15.24	252	235980m	14.39	ng	
90) Dibenzo(a,h)anthracene	16.64	278	28630m	2.11	ng	
91) Benzo(g,h,i)perylene	17.07	276	102869	7.39	ng	# 89

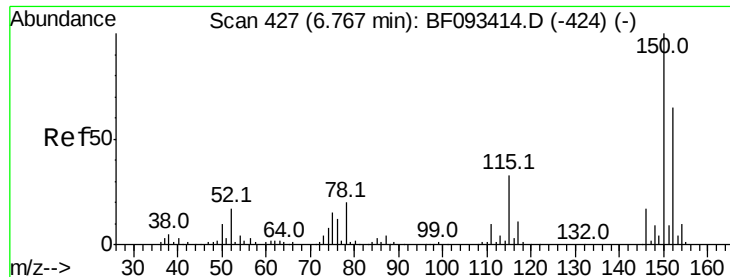
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF093699.D

Acq: 16 Mar 2017 9:04

Instrument :

BNA_F

ClientSampleId :

E2-EE8-WSWDL

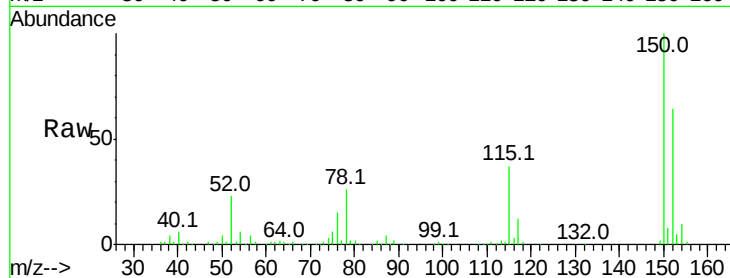
Tot Ion:152 Resp: 155162

Ion Ratio Lower Upper

152 100

150 157.1 124.9 187.3

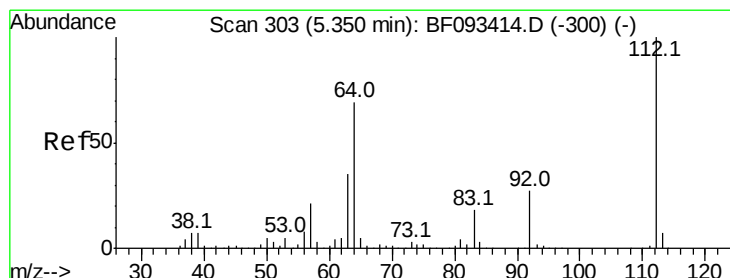
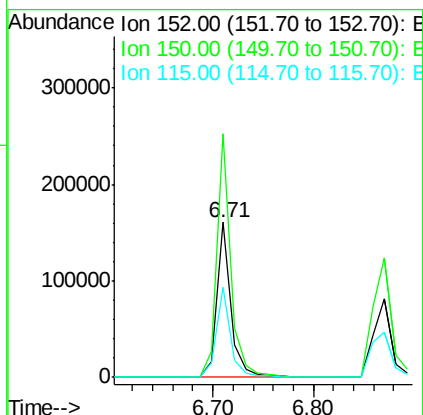
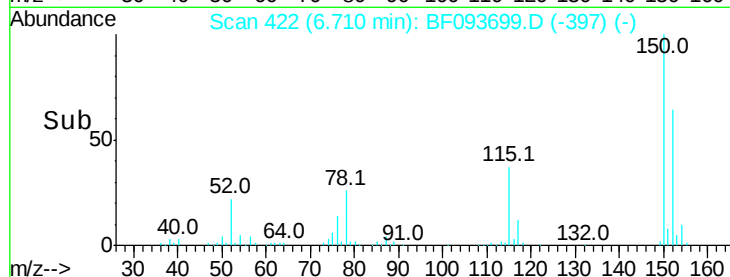
115 58.1 46.0 69.0



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: 27.63 ng

RT: 5.32 min Scan# 300

Delta R.T. 0.00 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

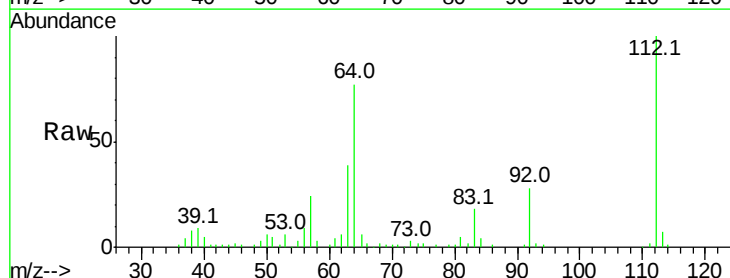
Tgt Ion:112 Resp: 257588

Ion Ratio Lower Upper

112 100

64 76.6 46.1 69.1#

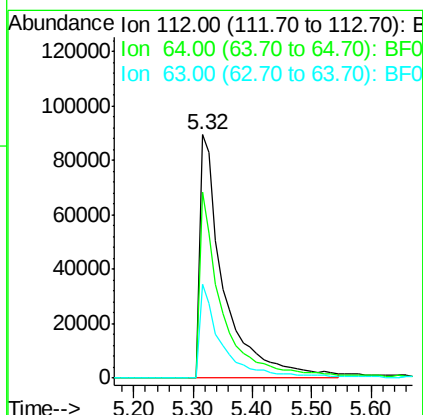
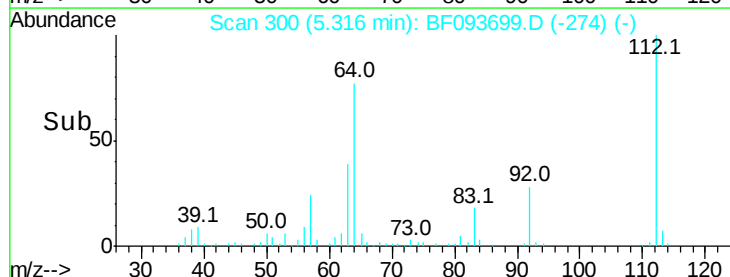
63 38.6 23.8 35.6#

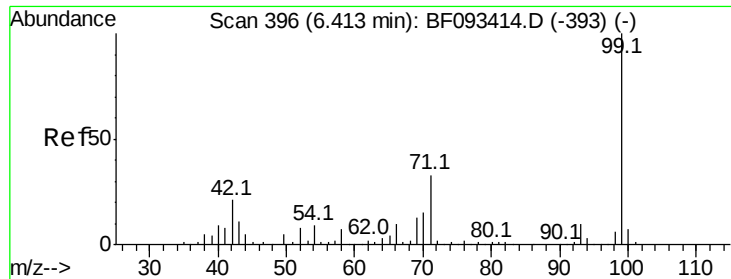


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 26.99 ng

RT: 6.39 min Scan# 394

Delta R.T. 0.01 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

Instrument :

BNA_F

ClientSampleId :

E2-EE8-WSWDL

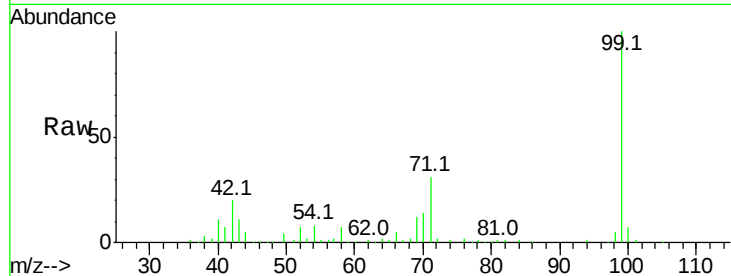
Tot Ion: 99 Resp: 317349

Ion Ratio Lower Upper

99 100

42 20.1 15.6 23.4

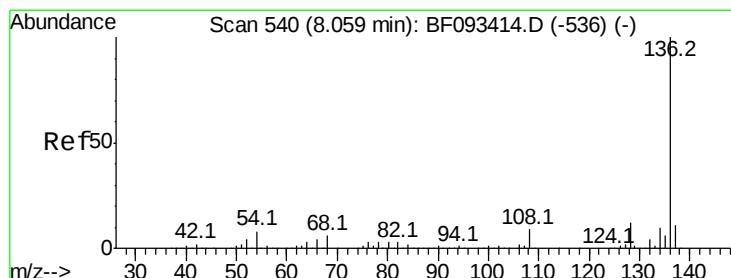
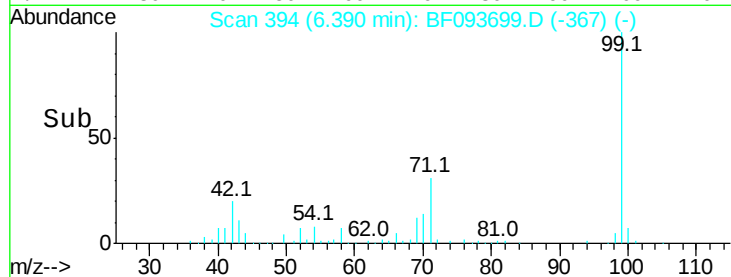
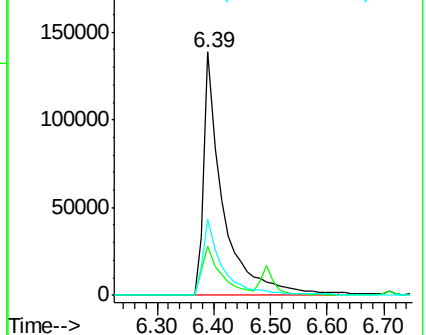
71 31.4 27.5 41.3



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: BF093699.D

Acq: 16 Mar 2017 9:04

Tgt Ion: 136 Resp: 556730

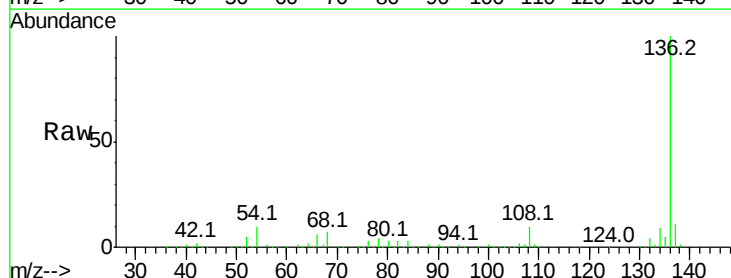
Ion Ratio Lower Upper

136 100

137 11.0 8.4 12.6

54 9.8 4.5 6.7#

68 7.2 3.6 5.4#

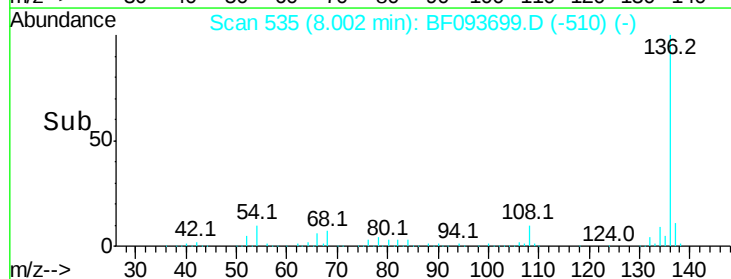
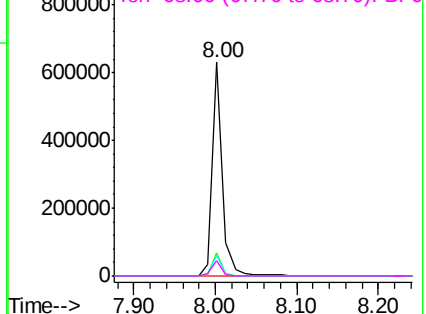


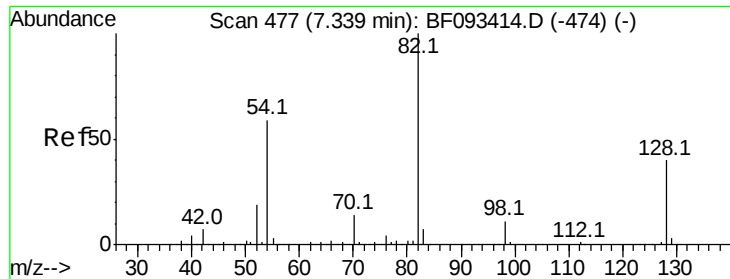
Abundance Ion 136.00 (135.70 to 136.70): E

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

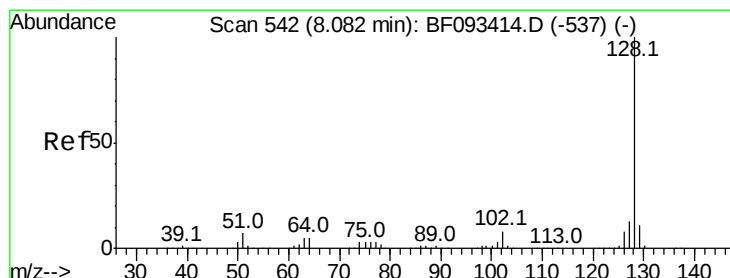
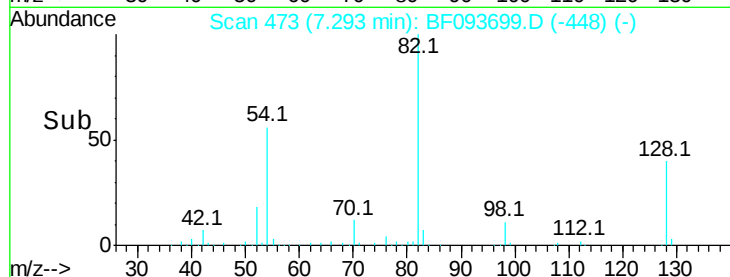
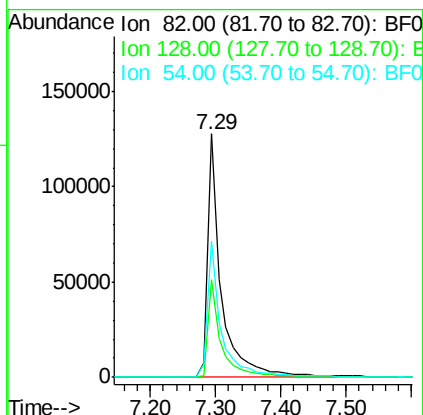
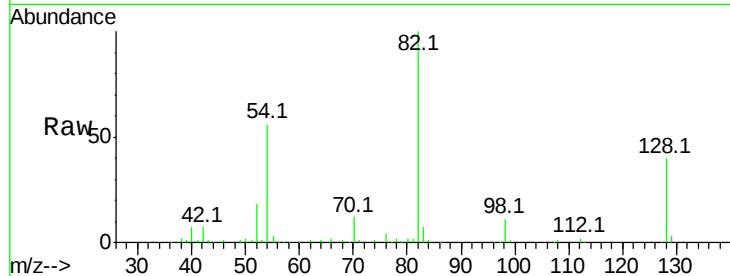




#23
 Nitrobenzene-d5
 Concen: 18.60 ng
 RT: 7.29 min Scan# 473
 Delta R.T. -0.01 min
 Lab File: BF093699.D
 Acq: 16 Mar 2017 9:04

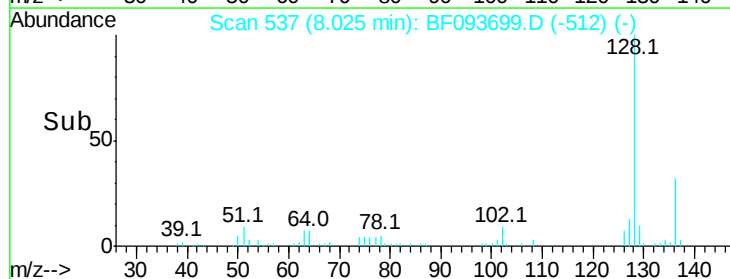
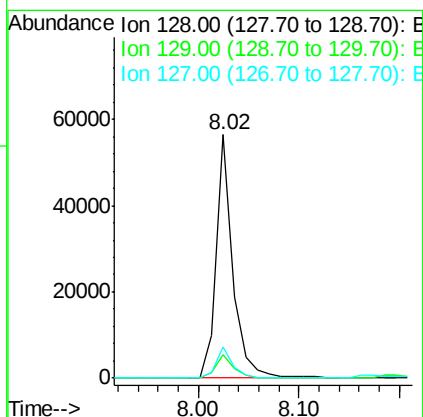
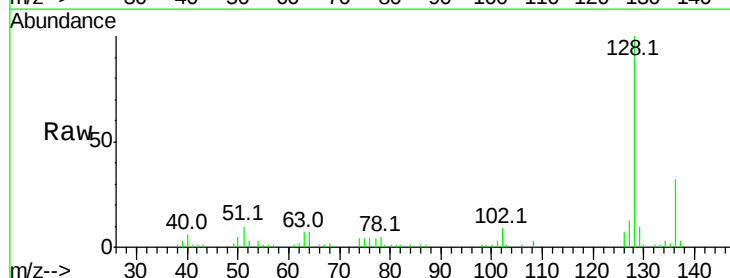
Instrument :
 BNA_F
 ClientSampleId :
 E2-EE8-WSWDL

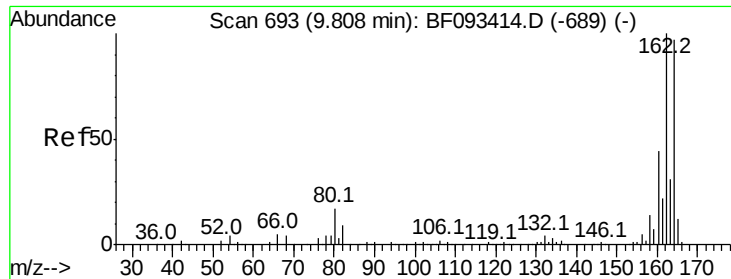
Tot Ion: 82 Resp: 186621
 Ion Ratio Lower Upper
 82 100
 128 40.3 34.6 52.0
 54 56.1 39.5 59.3



#31
 Naphthalene
 Concen: 2.33 ng
 RT: 8.02 min Scan# 537
 Delta R.T. -0.01 min
 Lab File: BF093699.D
 Acq: 16 Mar 2017 9:04

Tgt Ion: 128 Resp: 65028
 Ion Ratio Lower Upper
 128 100
 129 9.8 9.5 14.3
 127 12.9 10.8 16.2

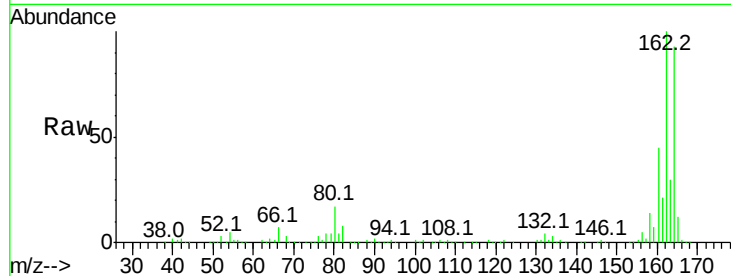




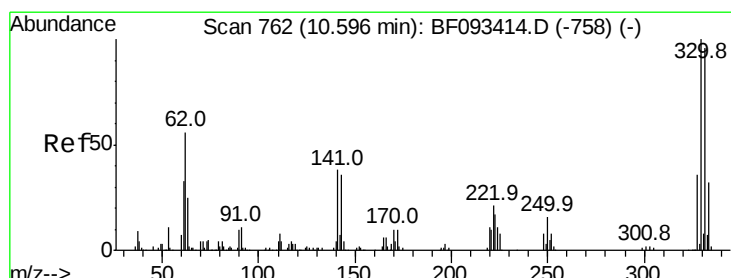
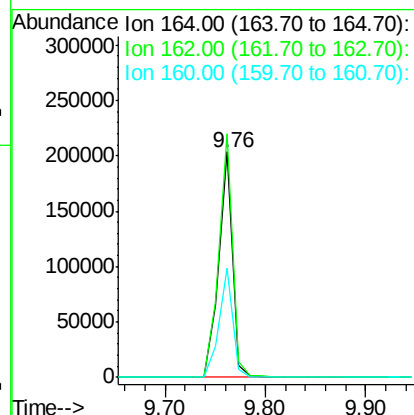
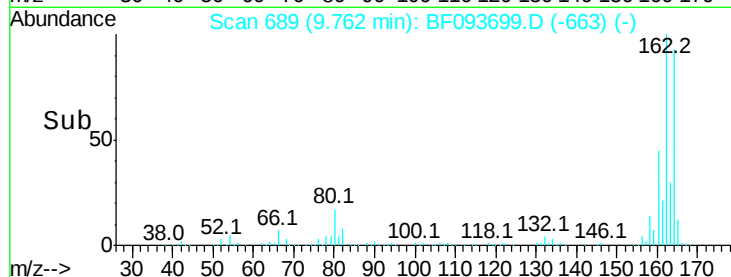
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.76 min Scan# 689
Delta R.T. 0.00 min
Lab File: BF093699.D
Acq: 16 Mar 2017 9:04

Instrument :
BNA_F
ClientSampleId :
E2-EE8-WSWDL

Tot Ion:164 Resp: 195520
Ion Ratio Lower Upper
164 100
162 108.0 80.2 120.2
160 48.5 36.9 55.3

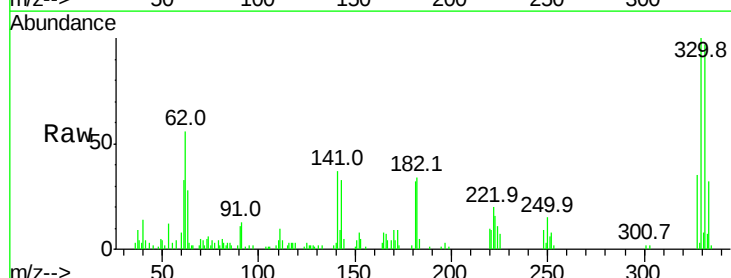


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

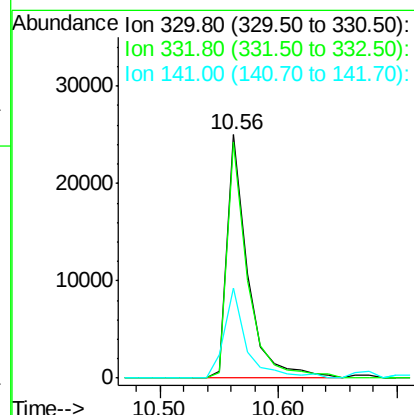
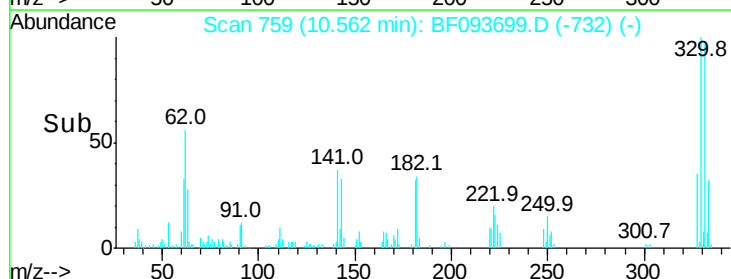


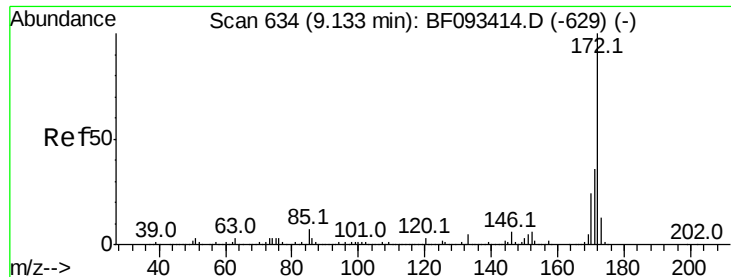
#41
2,4,6-Tribromophenol
Concen: 23.49 ng
RT: 10.56 min Scan# 759
Delta R.T. 0.01 min
Lab File: BF093699.D
Acq: 16 Mar 2017 9:04

Tgt Ion:330 Resp: 29918
Ion Ratio Lower Upper
330 100
332 95.9 77.4 116.2
141 40.0 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: 20.42 ng

RT: 9.09 min Scan# 630

Delta R.T. 0.00 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

Instrument :

BNA_F

ClientSampleId :

E2-EE8-WSWDL

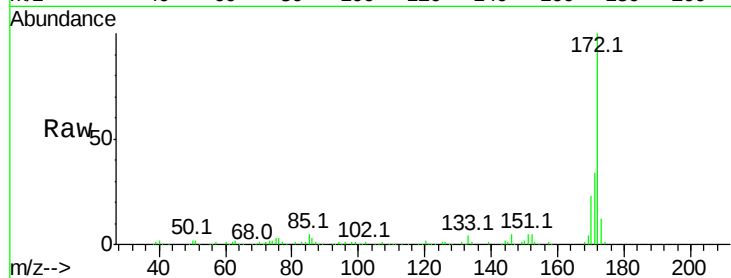
Tot Ion:172 Resp: 214685

Ion Ratio Lower Upper

172 100

171 34.5 29.4 44.0

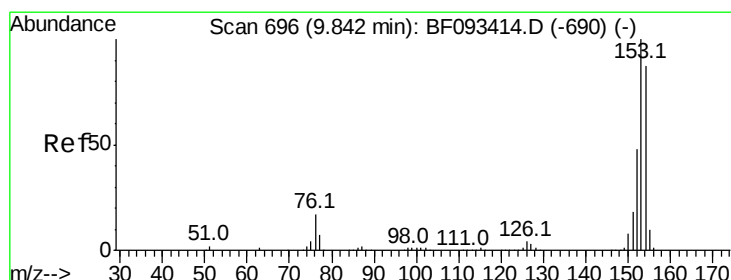
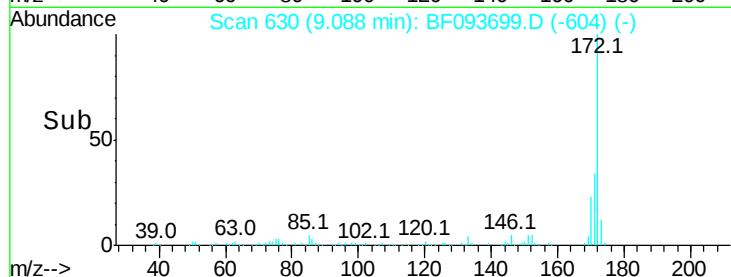
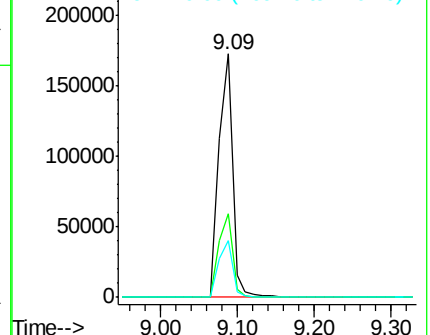
170 23.3 20.2 30.4



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: 4.80 ng

RT: 9.80 min Scan# 692

Delta R.T. 0.00 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

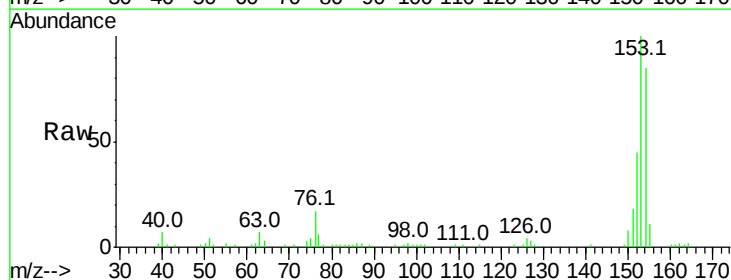
Tgt Ion:154 Resp: 51048

Ion Ratio Lower Upper

154 100

153 117.4 88.6 133.0

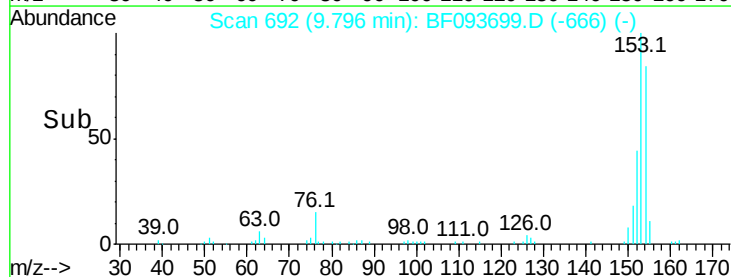
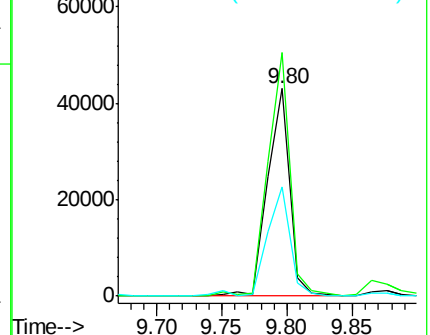
152 52.8 41.6 62.4

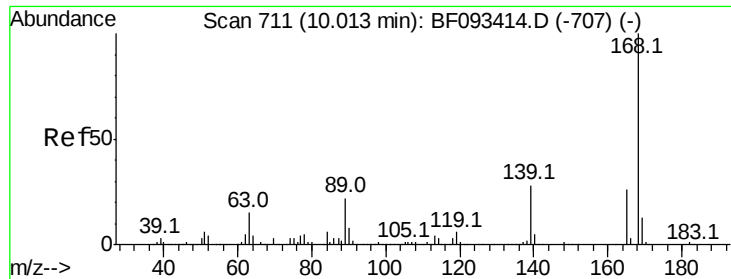


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 3.33 ng

RT: 9.97 min Scan# 707

Delta R.T. 0.00 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

Instrument :

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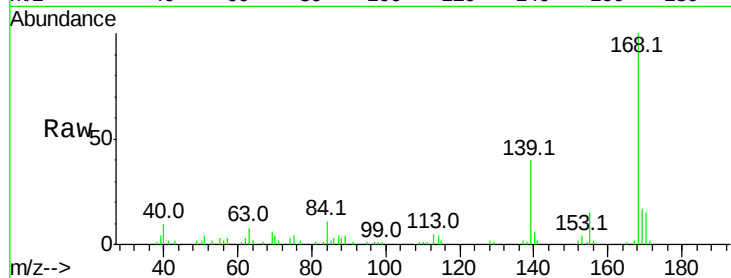
Tot Ion:168 Resp: 44369

Ion Ratio Lower Upper

168 100

139 40.0 32.6 49.0

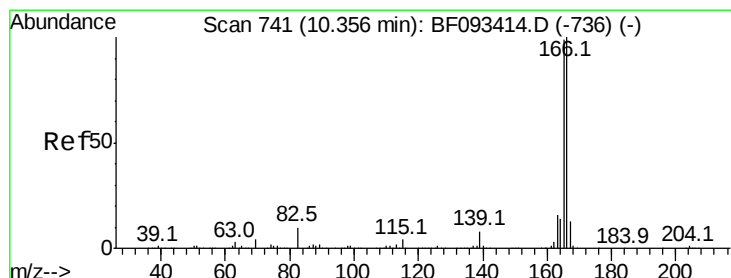
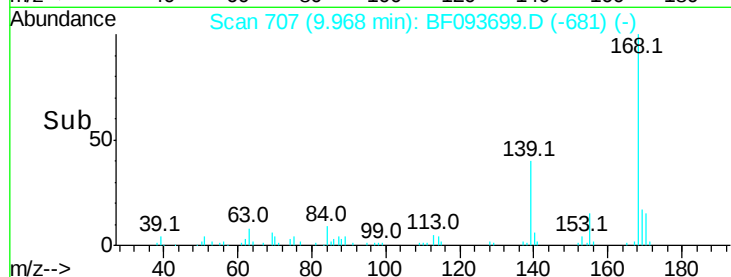
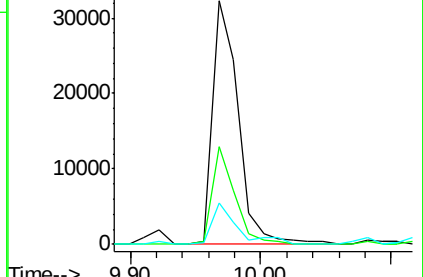
169 16.7 11.3 16.9



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: 5.30 ng

RT: 10.31 min Scan# 737

Delta R.T. 0.00 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

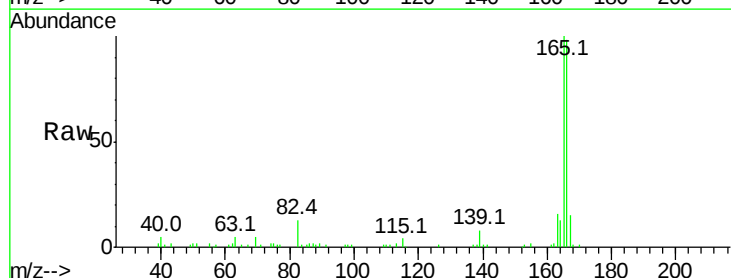
Tgt Ion:166 Resp: 59772

Ion Ratio Lower Upper

166 100

165 102.1 77.8 116.8

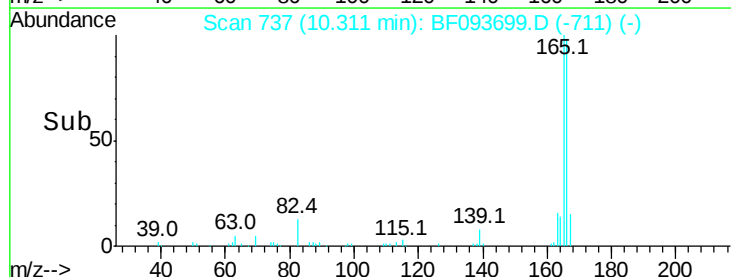
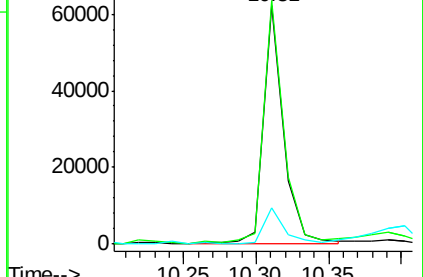
167 15.3 10.8 16.2

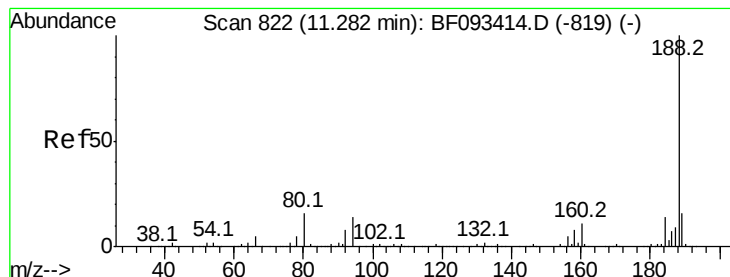


Abundance Ion 166.00 (165.70 to 166.70): E

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: BF093699.D

Acq: 16 Mar 2017 9:04

Instrument :

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E2-EE8-WSWDL

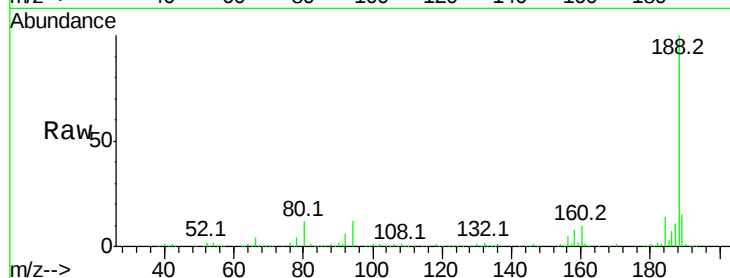
Tot Ion:188 Resp: 314154

Ion Ratio Lower Upper

188 100

94 11.8 10.0 15.0

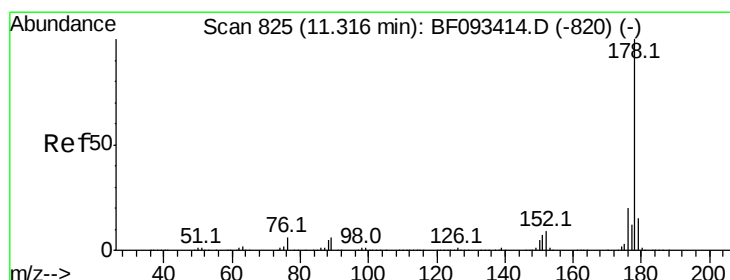
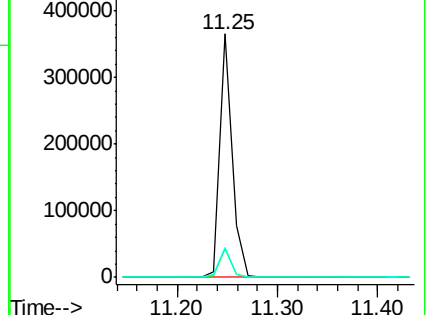
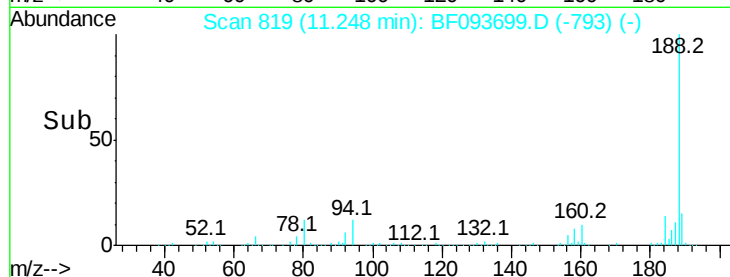
80 12.4 11.2 16.8



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: 30.94 ng

RT: 11.27 min Scan# 821

Delta R.T. 0.00 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

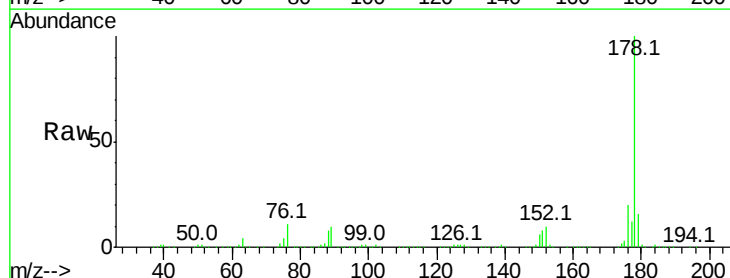
Tgt Ion:178 Resp: 554821

Ion Ratio Lower Upper

178 100

176 19.5 16.6 25.0

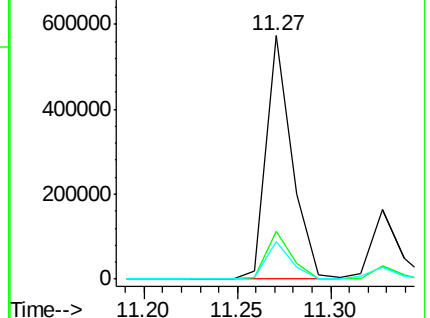
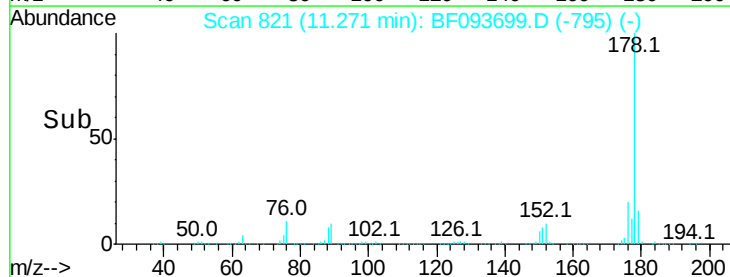
179 15.6 12.8 19.2

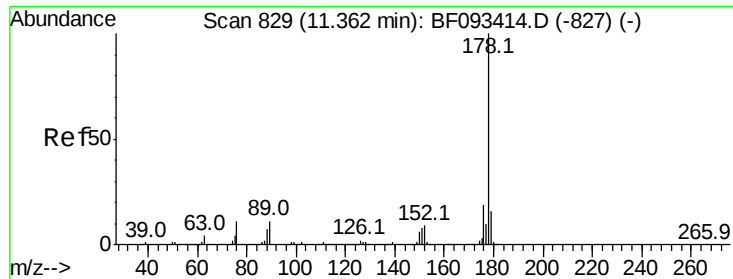


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 8.55 ng

RT: 11.33 min Scan# 826

Delta R.T. 0.01 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

Instrument :

BNA_F

ClientSampleId :

E2-EE8-WSWDL

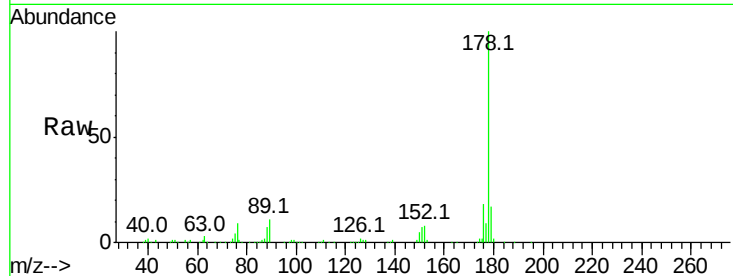
Tot Ion:178 Resp: 155135

Ion Ratio Lower Upper

178 100

176 18.4 15.9 23.9

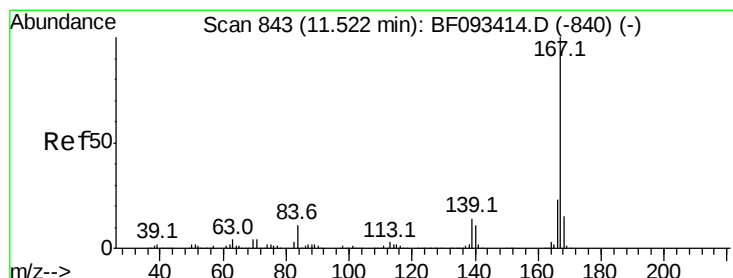
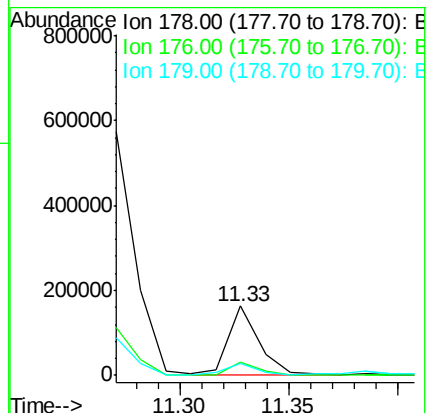
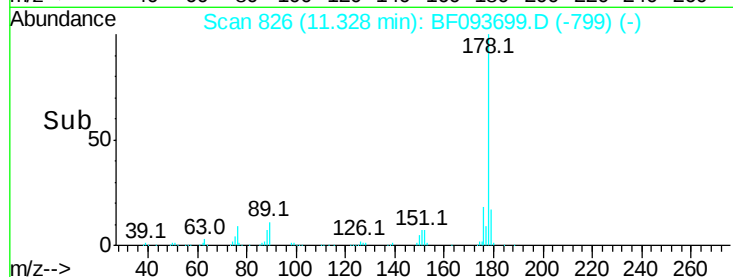
179 17.1 13.2 19.8



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: 3.06 ng

RT: 11.50 min Scan# 841

Delta R.T. 0.01 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

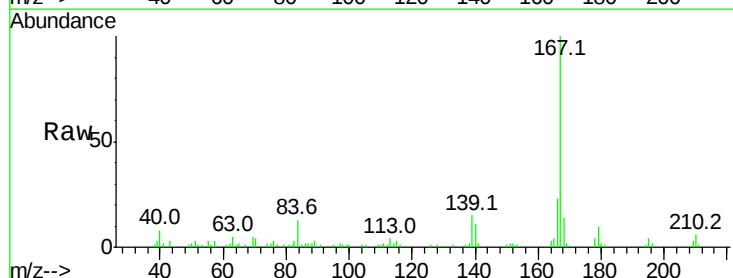
Tgt Ion:167 Resp: 52107

Ion Ratio Lower Upper

167 100

166 22.9 18.2 27.2

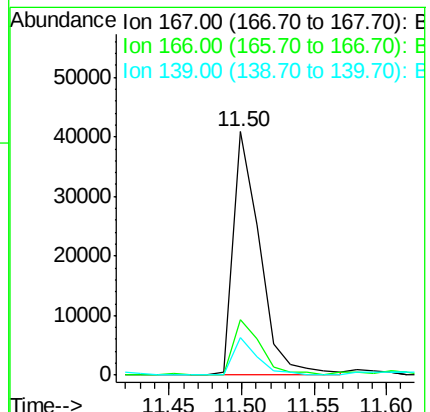
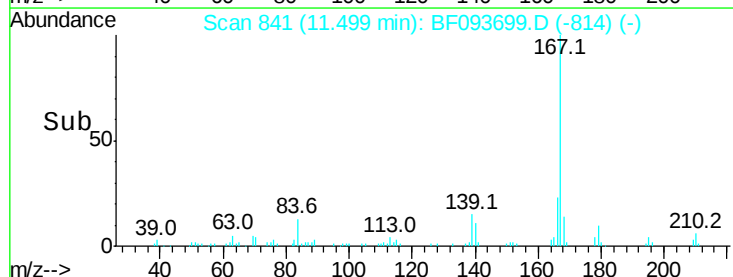
139 15.2 11.4 17.2

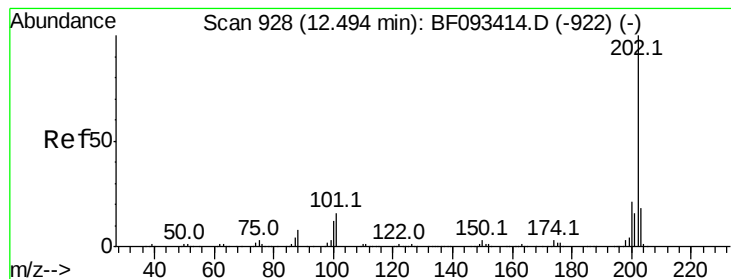


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 35.76 ng

RT: 12.46 min Scan# 925

Delta R.T. 0.00 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

Instrument :

BNA_F

ClientSampleId :

E2-EE8-WSWDL

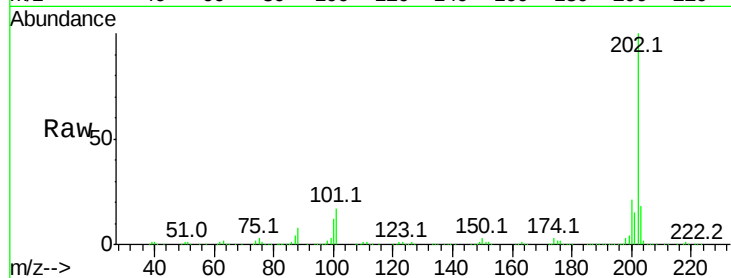
Tot Ion:202 Resp: 619391

Ion Ratio Lower Upper

202 100

101 16.9 0.0 34.6

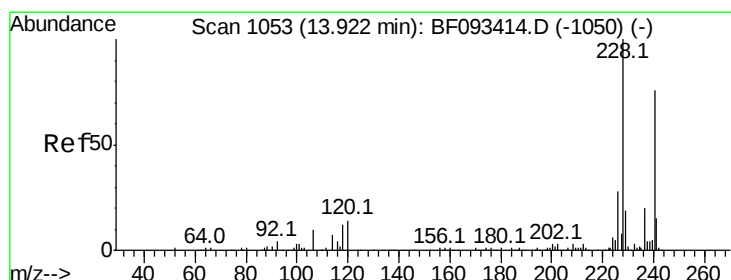
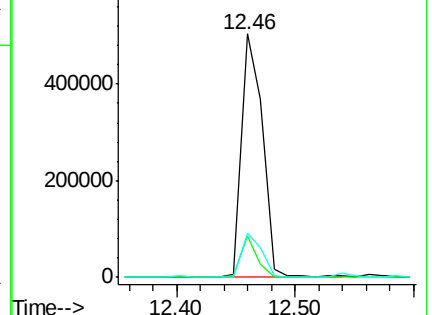
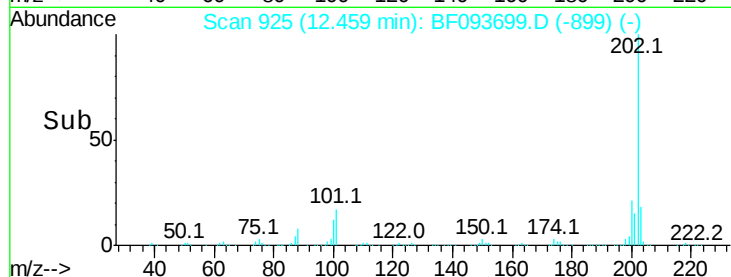
203 17.8 0.0 38.7



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: BF093699.D

Acq: 16 Mar 2017 9:04

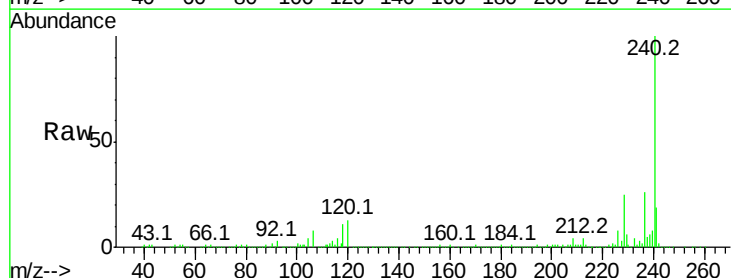
Tgt Ion:240 Resp: 318821

Ion Ratio Lower Upper

240 100

120 12.8 12.9 19.3#

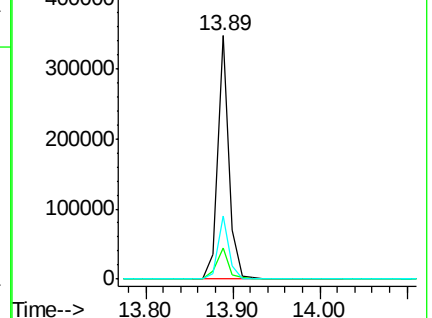
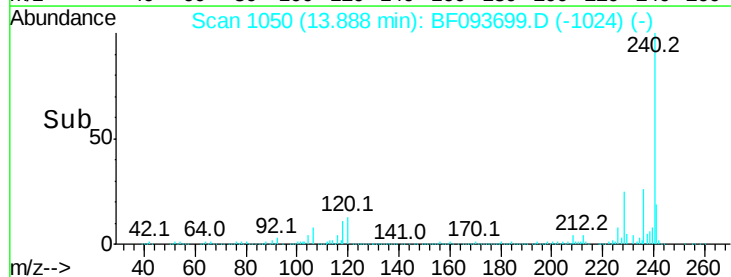
236 25.7 20.9 31.3

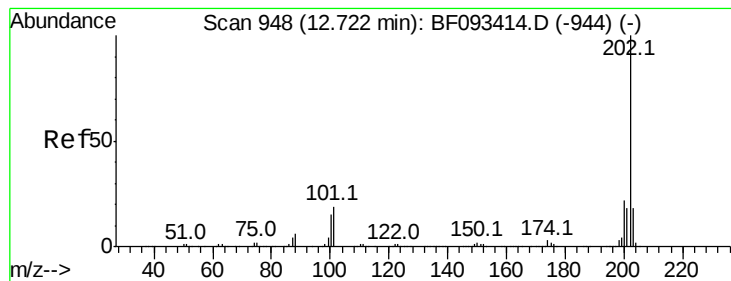


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 23.80 ng

RT: 12.69 min Scan# 945

Delta R.T. 0.01 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

Instrument :

BNA_F

ClientSampleId :

E2-EE8-WSWDL

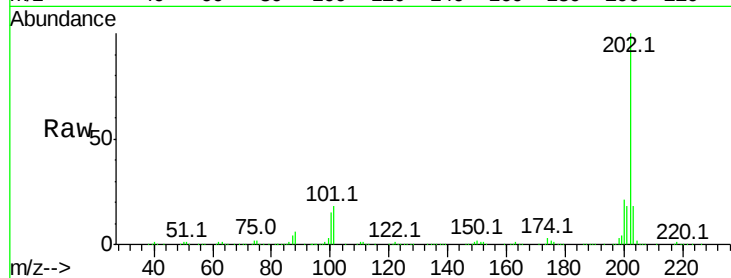
Tot Ion:202 Resp: 551757

Ion Ratio Lower Upper

202 100

200 21.2 17.7 26.5

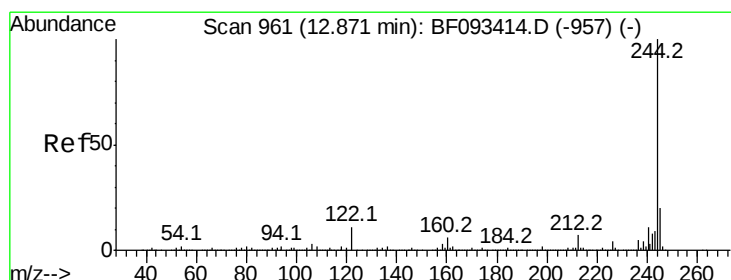
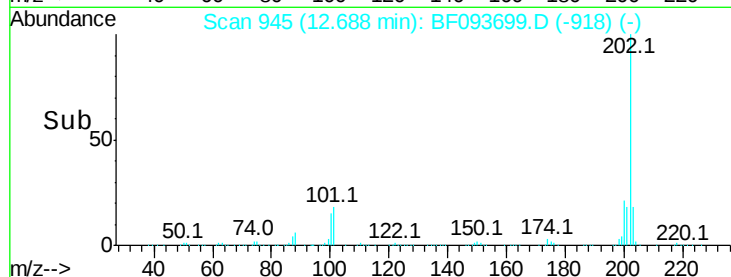
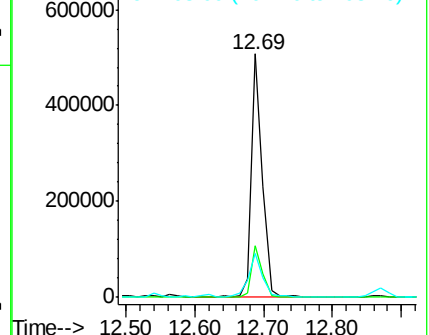
203 18.2 14.7 22.1



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: 11.26 ng

RT: 12.83 min Scan# 957

Delta R.T. 0.00 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

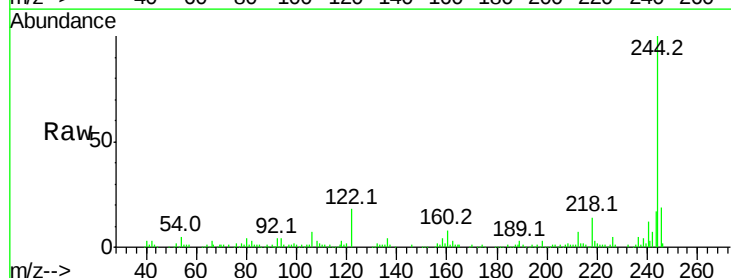
Tgt Ion:244 Resp: 138117

Ion Ratio Lower Upper

244 100

212 7.5 6.2 9.2

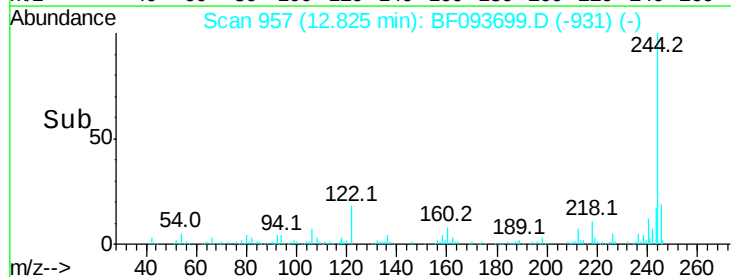
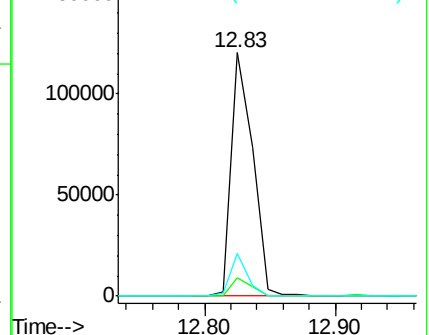
122 17.6 11.4 17.2#

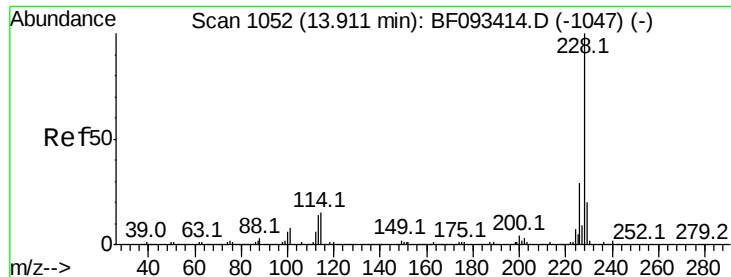


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 17.07 ng

RT: 13.88 min Scan# 1049

Delta R.T. 0.01 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

Instrument :

BNA_F

ClientSampleId :

E2-EE8-WSWDL

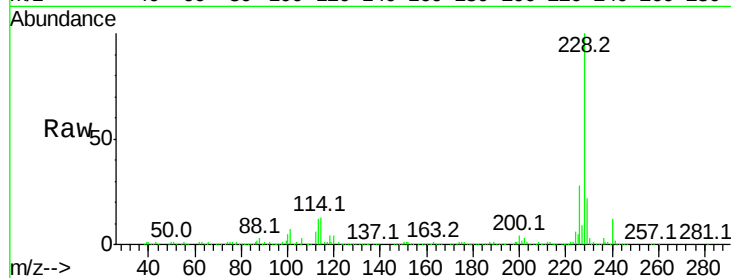
Tot Ion:228 Resp: 321463

Ion Ratio Lower Upper

228 100

226 27.7 22.4 33.6

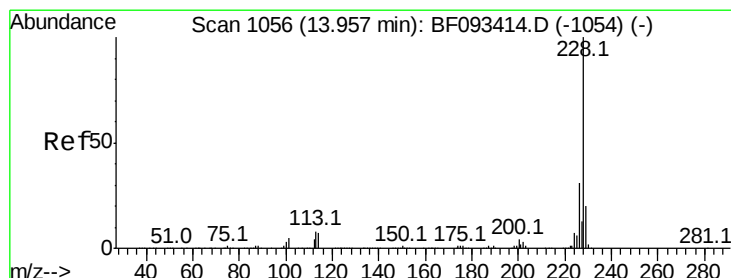
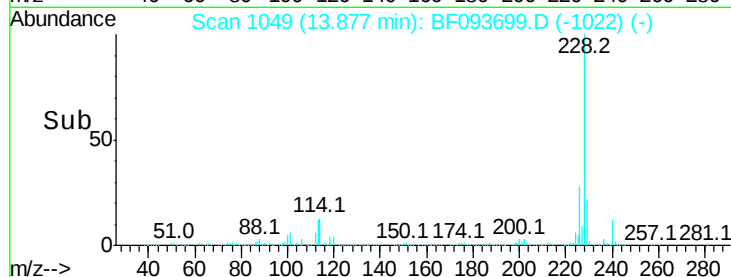
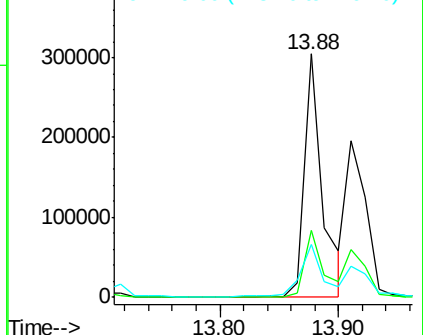
229 21.8 16.2 24.4



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: 13.08 ng

RT: 13.91 min Scan# 1052

Delta R.T. 0.00 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

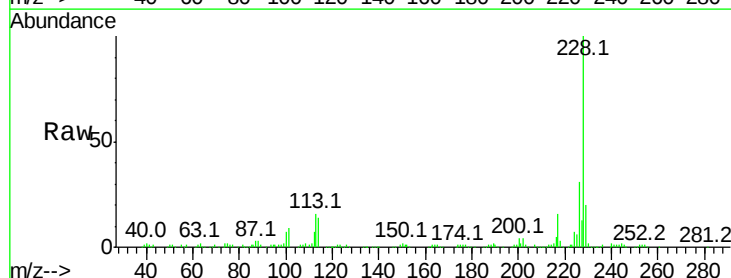
Tgt Ion:228 Resp: 227852

Ion Ratio Lower Upper

228 100

226 30.7 25.4 38.0

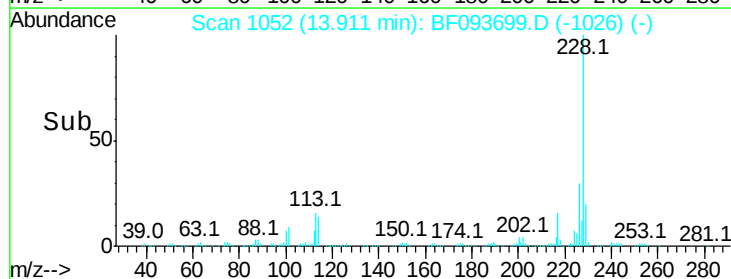
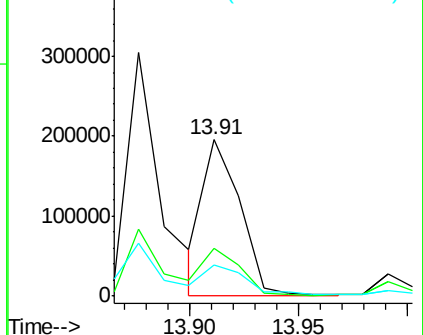
229 20.4 16.2 24.2

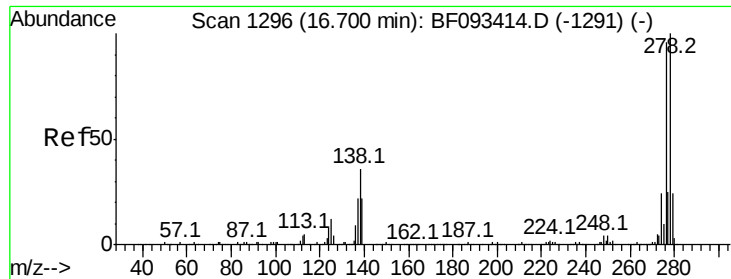


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

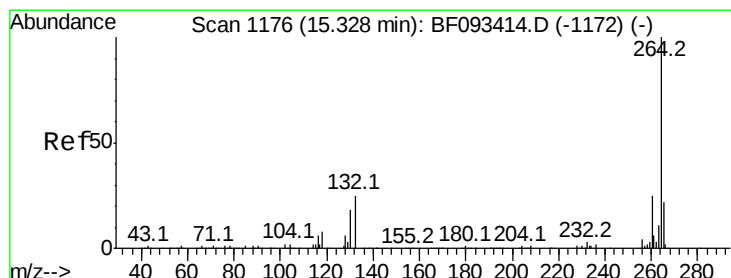
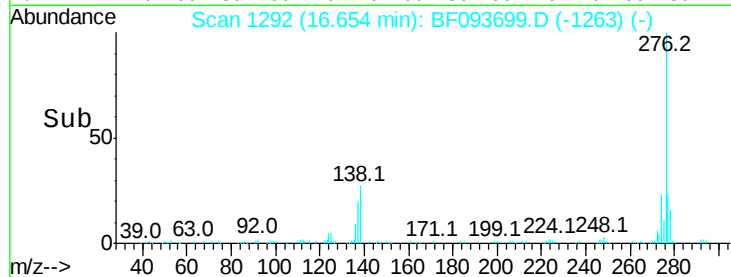
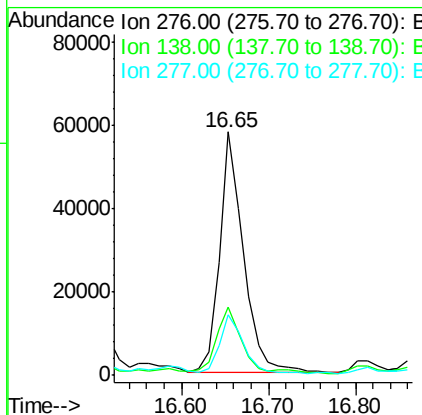
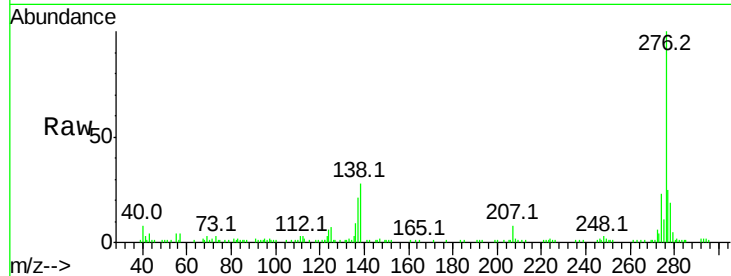




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.52 ng
 RT: 16.65 min Scan# 1292
 Delta R.T. 0.03 min
 Lab File: BF093699.D
 Acq: 16 Mar 2017 9:04

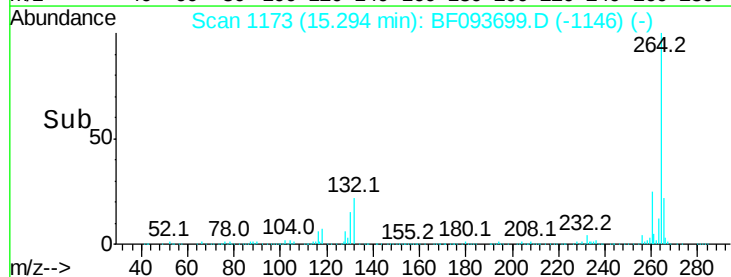
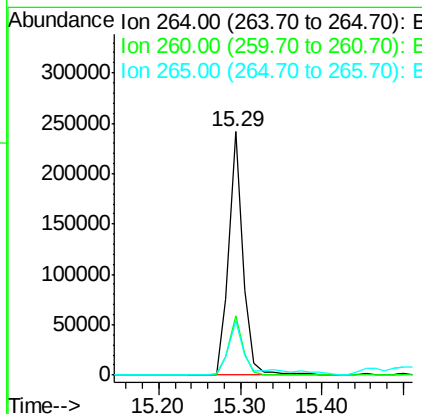
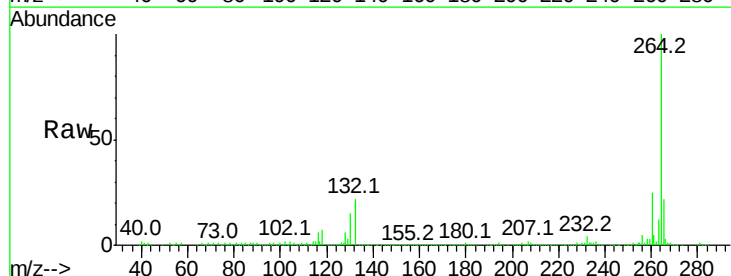
Instrument :
 BNA_F
 ClientSampleId :
 E2-EE8-WSWDL

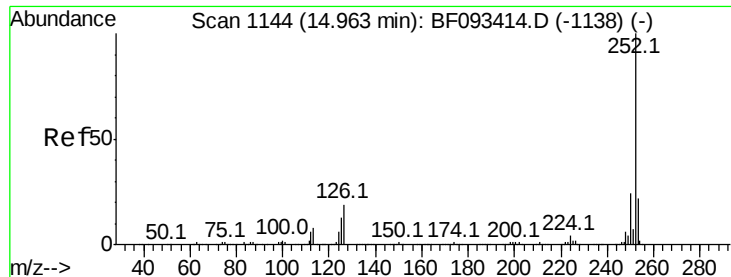
Tot Ion	Ratio	Lower	Upper
276	100		
138	30.3	21.8	32.6
277	24.5	20.2	30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.29 min Scan# 1173
 Delta R.T. 0.01 min
 Lab File: BF093699.D
 Acq: 16 Mar 2017 9:04

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.2	28.8
265	22.2	17.4	26.0





#87

Benzo(b)fluoranthene

Concen: 18.10 ng m

RT: 14.91 min Scan# 1139

Delta R.T. 0.01 min

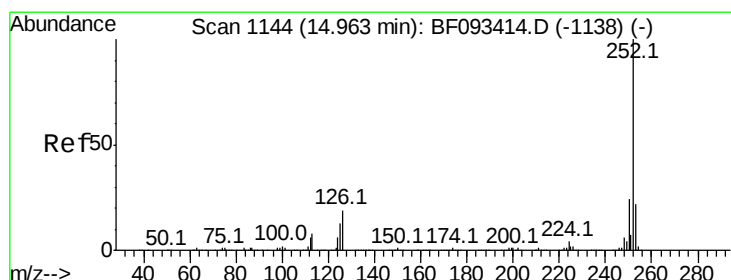
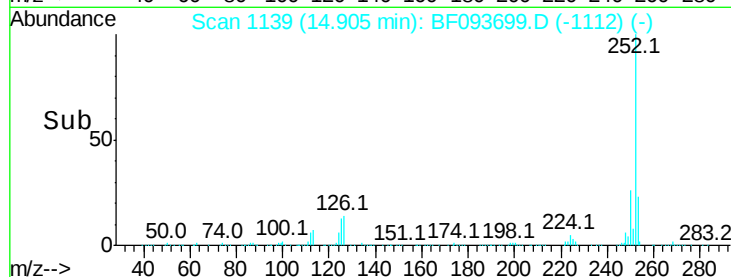
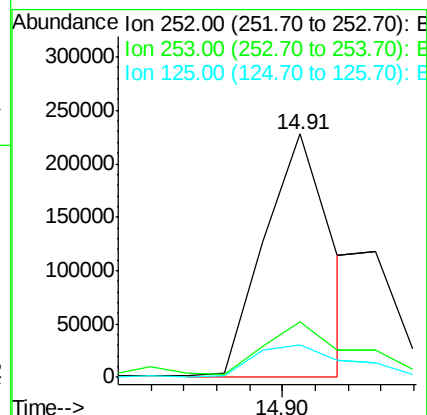
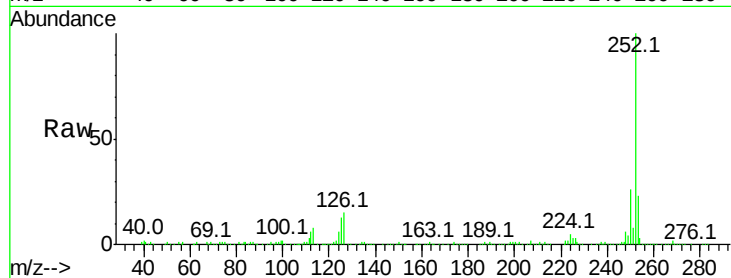
Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

Instrument :
BNA_F
ClientSampleId :
E2-EE8-WSWDL

Tot Ion:252 Resp: 324646

Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.4
125	13.4	9.8	14.6



#88

Benzo(k)fluoranthene

Concen: 6.19 ng m

RT: 14.93 min Scan# 1141

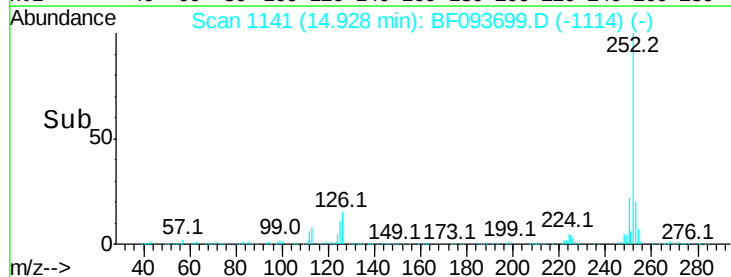
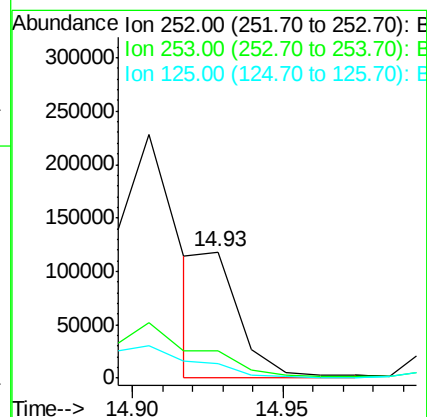
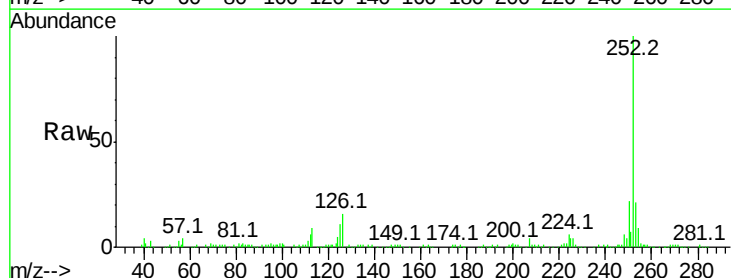
Delta R.T. 0.01 min

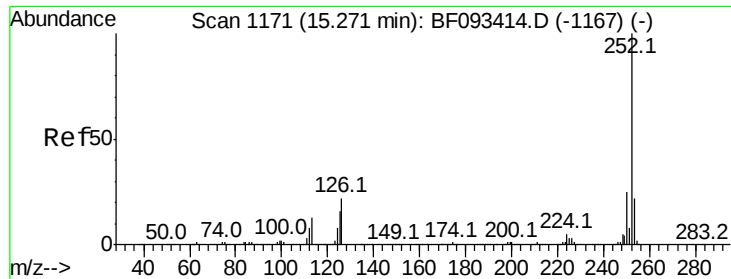
Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

Tgt Ion:252 Resp: 107051

Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.5	27.7
125	11.1	8.9	13.3





#89

Benzo(a)pyrene

Concen: 14.39 ng m

RT: 15.24 min Scan# 1168

Delta R.T. 0.01 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

Instrument :

BNA_F

ClientSampleId :

E2-EE8-WSWDL

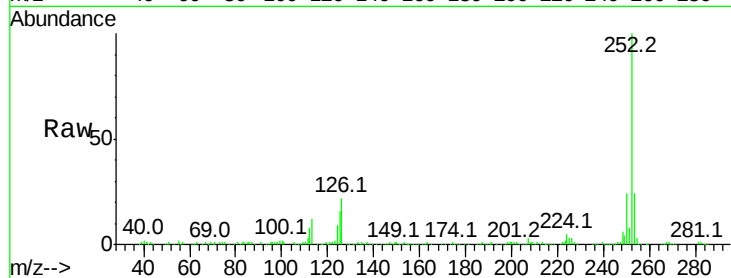
Tot Ion:252 Resp: 235980

Ion Ratio Lower Upper

252 100

253 23.6 18.2 27.2

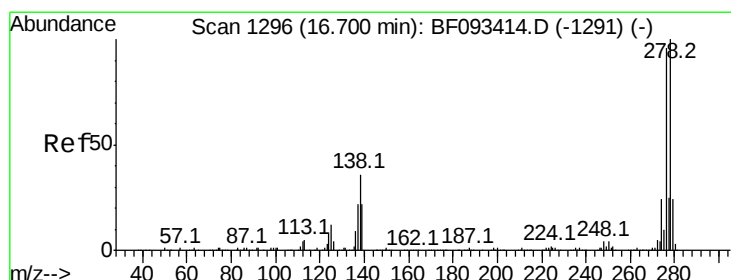
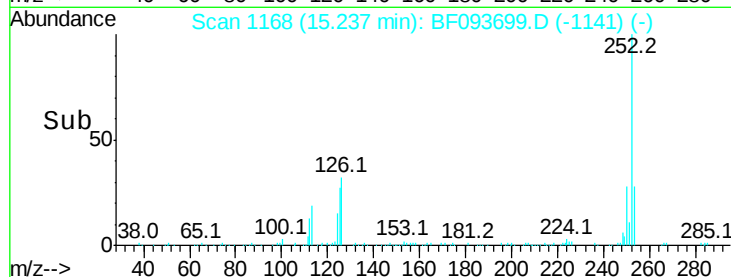
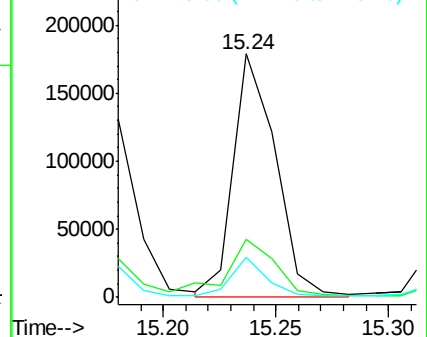
125 16.4 10.0 15.0#



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



#90

Dibenzo(a,h)anthracene

Concen: 2.11 ng m

RT: 16.64 min Scan# 1291

Delta R.T. 0.02 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

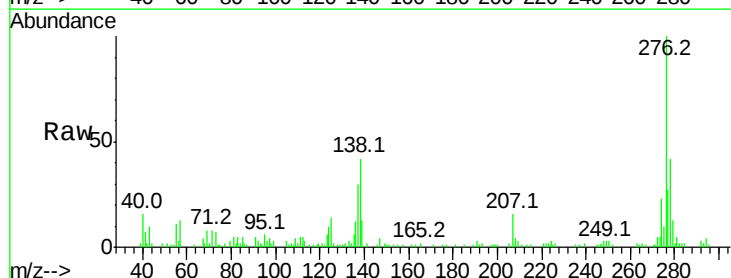
Tgt Ion:278 Resp: 28630

Ion Ratio Lower Upper

278 100

139 30.1 14.8 22.2#

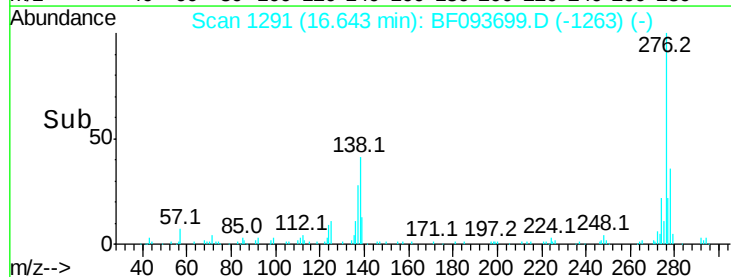
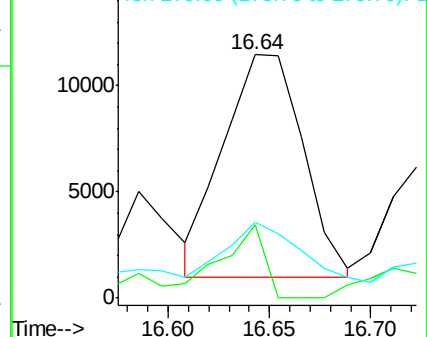
279 31.0 19.8 29.6#

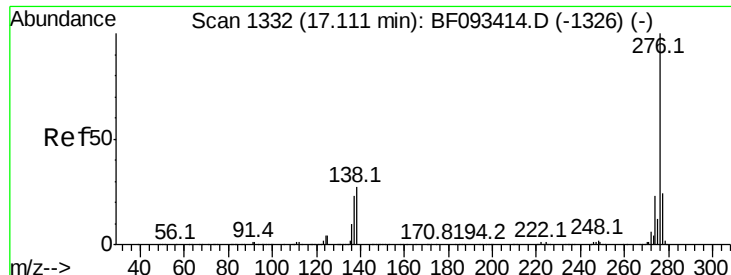


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 7.39 ng

RT: 17.07 min Scan# 1328

Delta R.T. 0.05 min

Lab File: BF093699.D

Acq: 16 Mar 2017 9:04

Instrument :

BNA_F

ClientSampleId :

E2-EE8-WSWDL

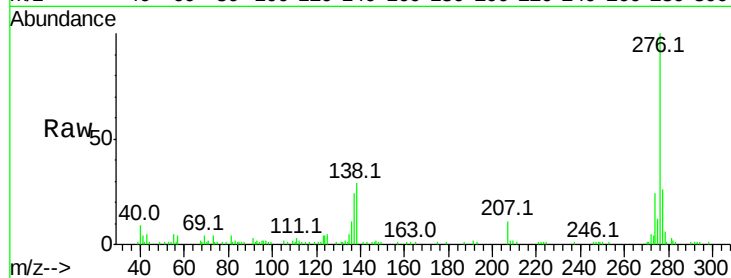
Tot Ion: 276 Resp: 102869

Ion Ratio Lower Upper

276 100

277 26.1 19.2 28.8

138 28.7 16.0 24.0



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

