

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022717\
 Data File : BF093209.D
 Acq On : 27 Feb 2017 15:20
 Operator : SJ/MA
 Sample : I1972-01 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2B15-BASE-1

Quant Time: Feb 27 15:56:49 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 17:31:55 2017
 Response via : Initial Calibration

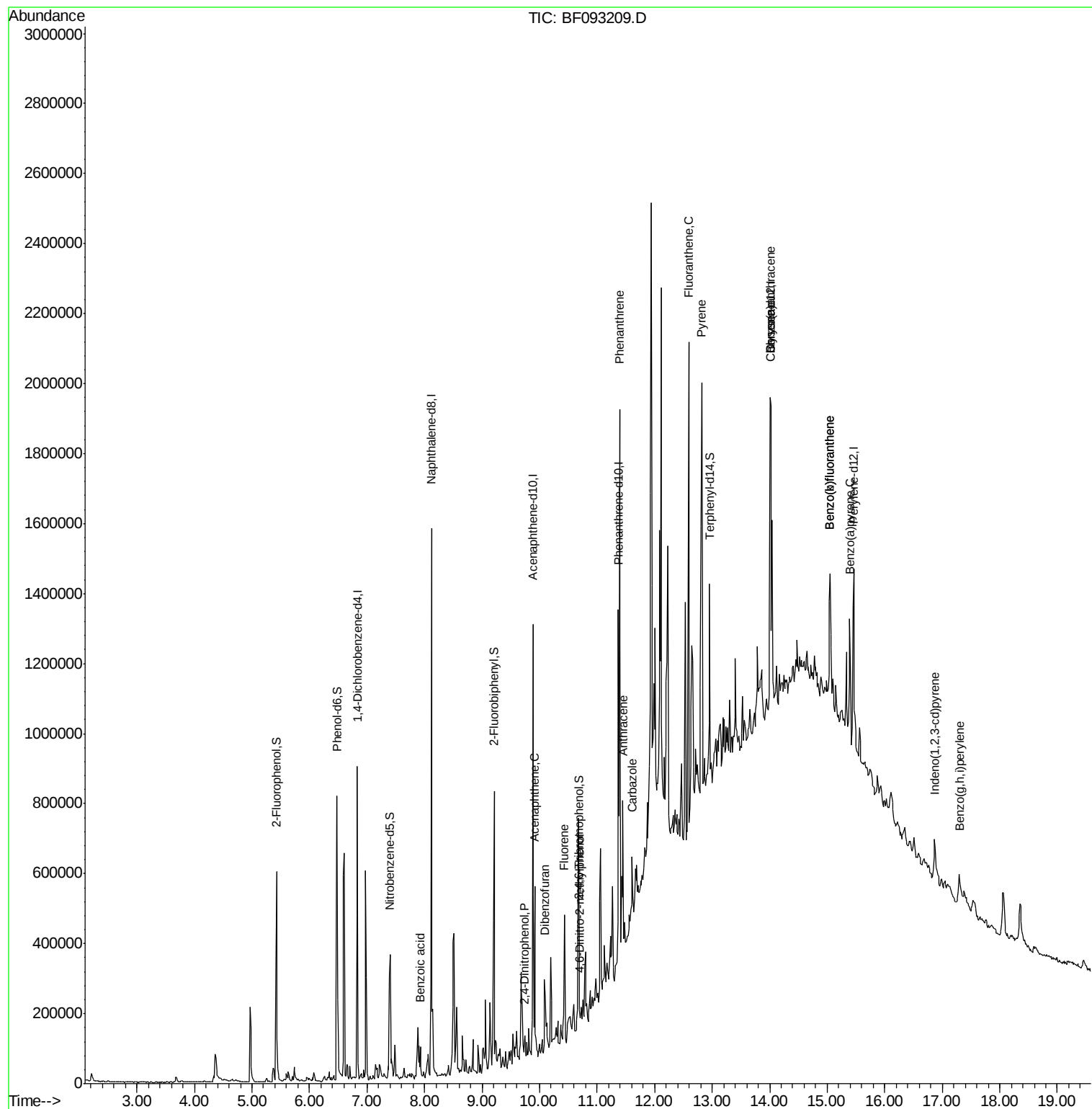
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	161243	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	622987	20.00	ng	-0.02
38) Acenaphthene-d10	9.88	164	259761	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	394304	20.00	ng	-0.01
75) Chrysene-d12	14.02	240	328710	20.00	ng	0.00
86) Perylene-d12	15.46	264	264677	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	218679	23.27	ng	-0.02
7) Phenol-d6	6.48	99	285557	23.61	ng	-0.01
23) Nitrobenzene-d5	7.40	82	159673	14.27	ng	-0.02
41) 2,4,6-Tribromophenol	10.68	330	38643	20.57	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	290517	20.26	ng	-0.01
78) Terphenyl-d14	12.96	244	178804	12.78	ng	-0.01
Target Compounds						Qvalue
32) Benzoic acid	7.93	122	1740	7.44	ng	# 56
51) Acenaphthene	9.92	154	93613	6.16	ng	95
53) 2,4-Dinitrophenol	9.73	184	250	4.86	ng	# 1
54) Dibenzofuran	10.09	168	71398	3.51	ng	94
57) Fluorene	10.43	166	86538	5.53	ng	99
64) 4,6-Dinitro-2-methylphenol	10.70	198	211	2.75	ng	# 1
70) Phenanthrene	11.39	178	754935	33.42	ng	99
71) Anthracene	11.45	178	189235	8.34	ng	97
72) Carbazole	11.61	167	64362	2.97	ng	99
74) Fluoranthene	12.59	202	672551	28.86	ng	94
77) Pyrene	12.82	202	617201	25.09	ng	98
80) Benzo(a)anthracene	14.01	228	283766	14.11	ng	98
82) Chrysene	14.01	228	283766	15.08	ng	96
85) Indeno(1,2,3-cd)pyrene	16.87	276	75904	5.21	ng	99
87) Benzo(b)fluoranthene	15.05	252	296926	17.04	ng	# 89
88) Benzo(k)fluoranthene	15.05	252	296926	19.74	ng	# 88
89) Benzo(a)pyrene	15.39	252	161364	10.71	ng	# 90
91) Benzo(g,h,i)perylene	17.30	276	77872	6.33	ng	# 89

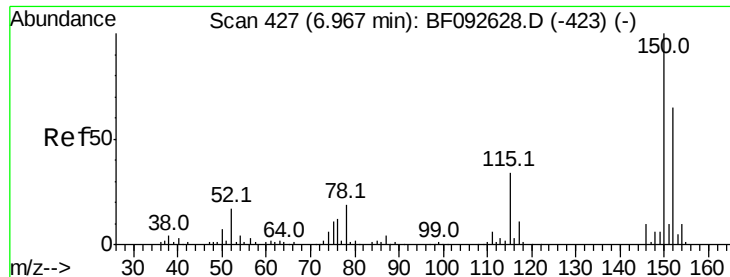
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.83 min Scan# 415

Delta R.T. -0.02 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-1

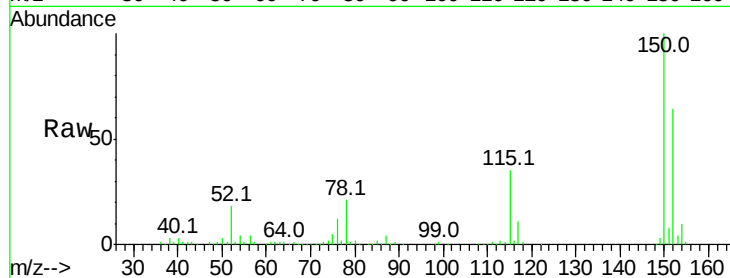
Tot Ion:152 Resp: 161243

Ion Ratio Lower Upper

152 100

150 157.3 124.9 187.3

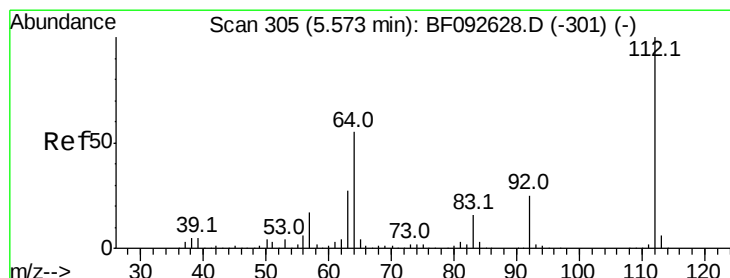
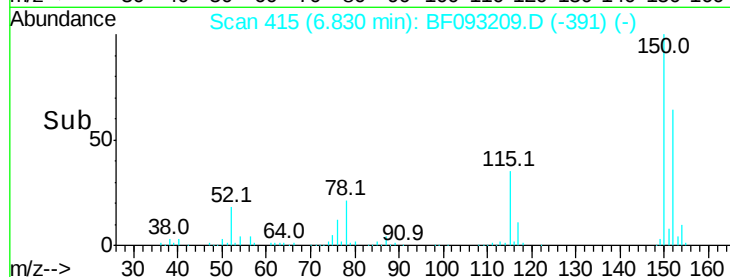
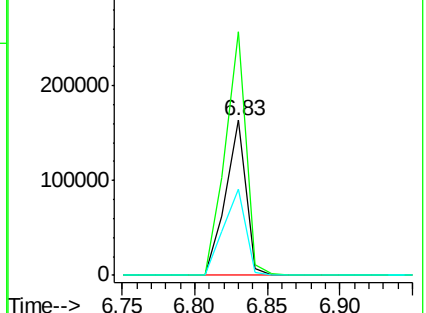
115 55.3 46.0 69.0



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: 23.27 ng

RT: 5.42 min Scan# 292

Delta R.T. -0.02 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

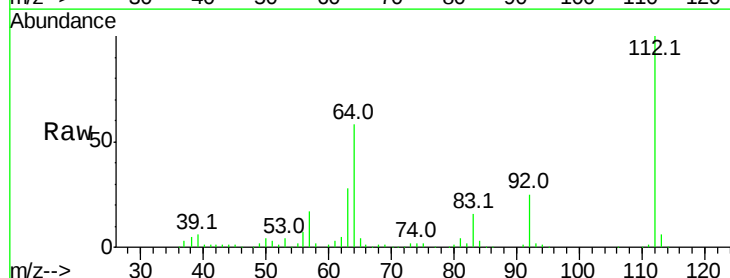
Tgt Ion:112 Resp: 218679

Ion Ratio Lower Upper

112 100

64 57.8 46.1 69.1

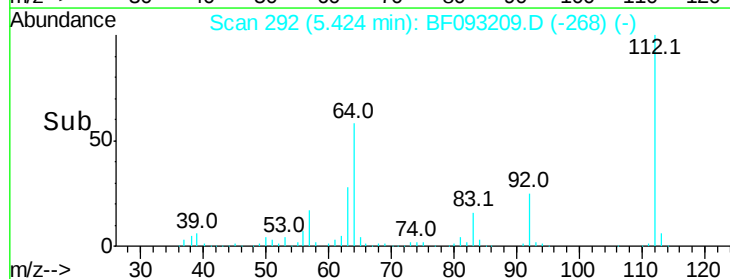
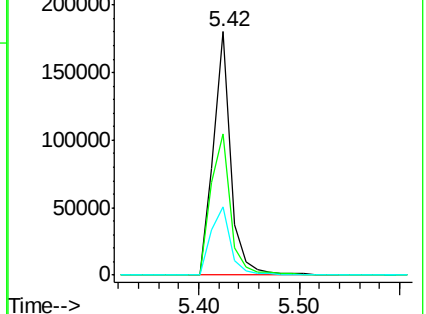
63 28.2 23.8 35.6

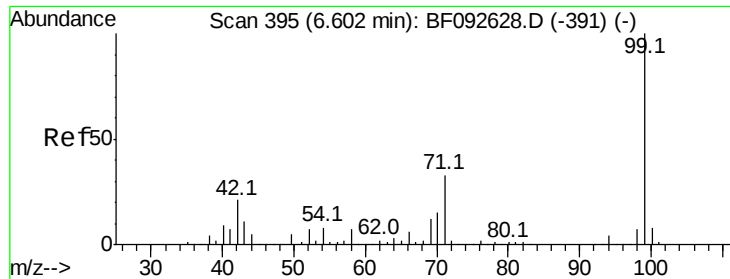


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 23.61 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-1

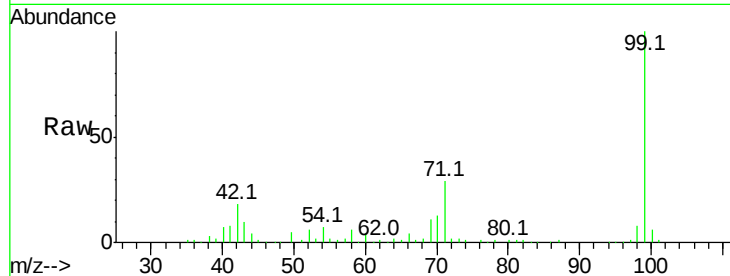
Tot Ion: 99 Resp: 285557

Ion Ratio Lower Upper

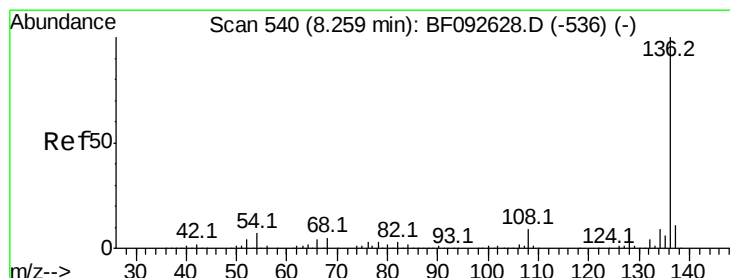
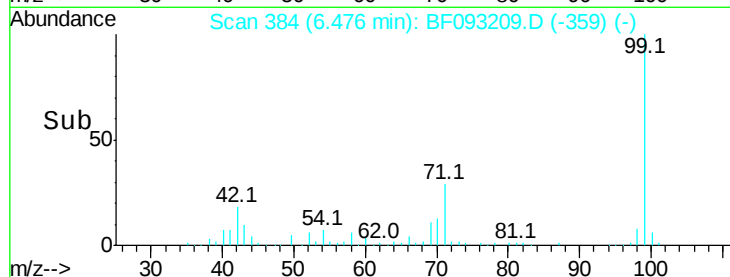
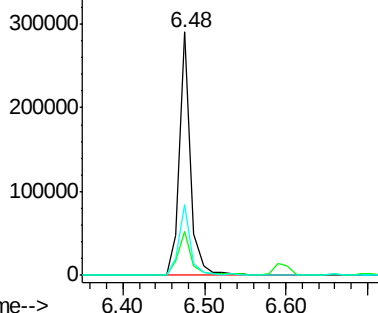
99 100

42 18.1 15.6 23.4

71 28.9 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: 8.12 min Scan# 528

Delta R.T. -0.02 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

Tgt Ion: 136 Resp: 622987

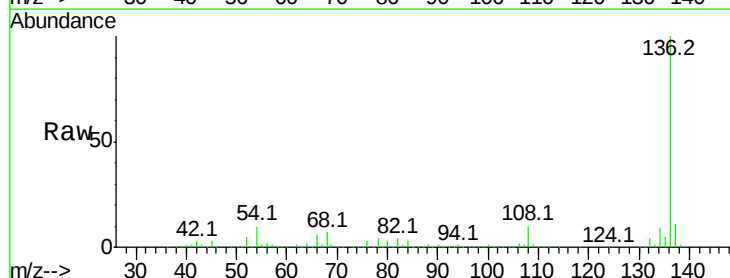
Ion Ratio Lower Upper

136 100

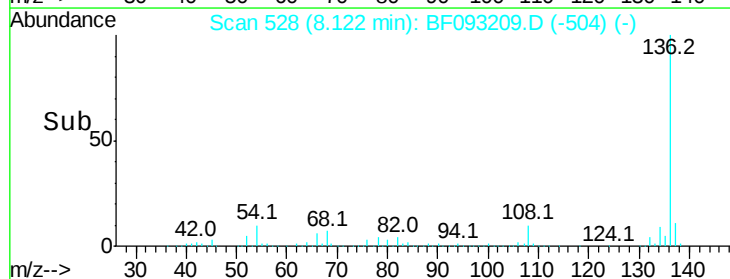
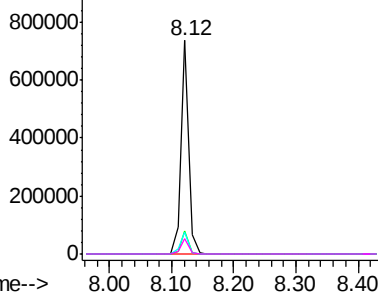
137 10.9 8.4 12.6

54 10.1 4.5 6.7#

68 7.1 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: 14.27 ng

RT: 7.40 min Scan# 465

Delta R.T. -0.02 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-1

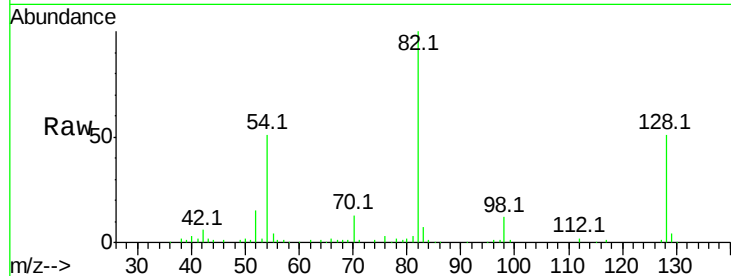
Tot Ion: 82 Resp: 159673

Ion Ratio Lower Upper

82 100

128 50.6 34.6 52.0

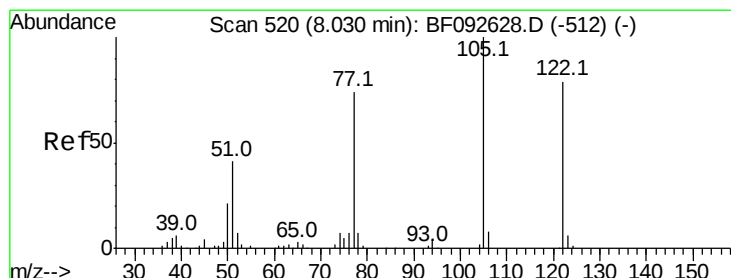
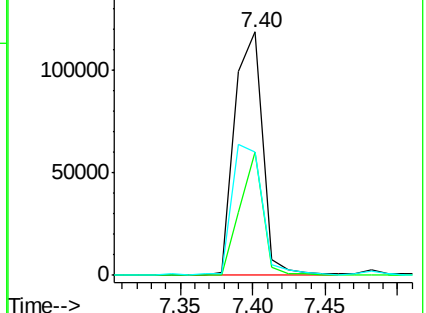
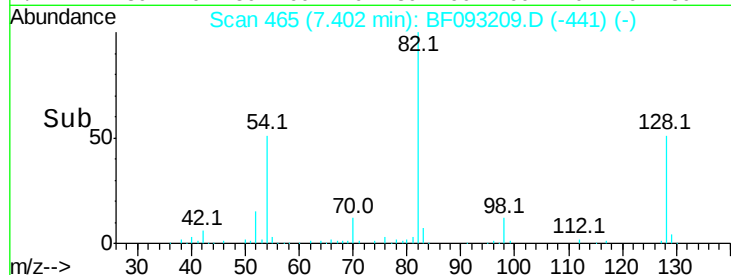
54 50.7 39.5 59.3



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#32

Benzoic acid

Concen: 7.44 ng

RT: 7.93 min Scan# 511

Delta R.T. -0.00 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

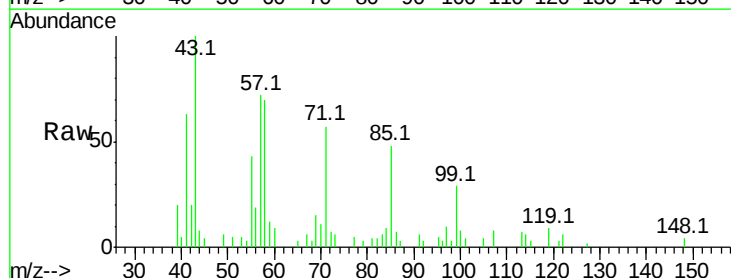
Tgt Ion: 122 Resp: 1740

Ion Ratio Lower Upper

122 100

105 60.1 107.2 147.2#

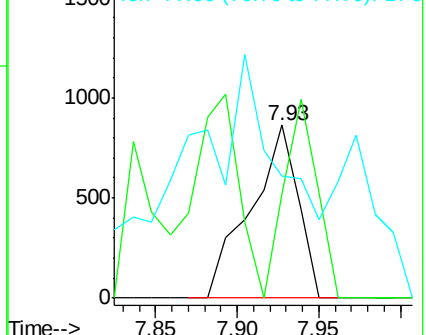
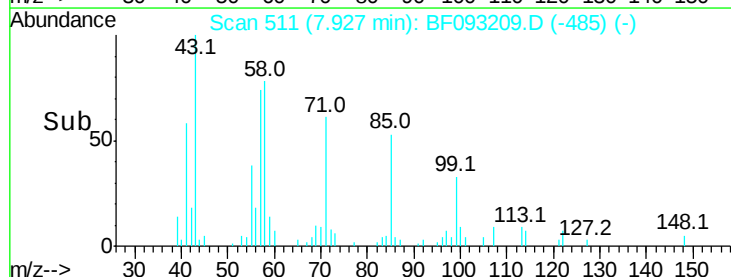
77 70.6 74.5 114.5#

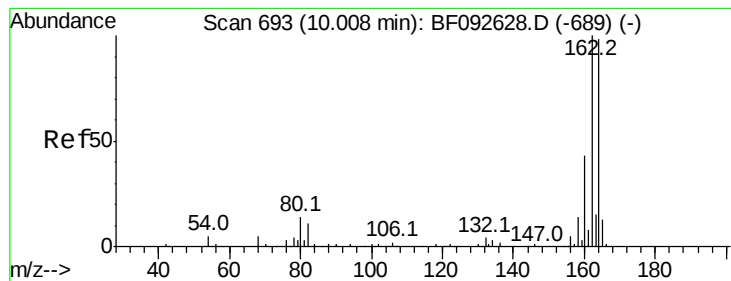


Abundance Ion 122.00 (121.70 to 122.70): BF0

Ion 105.00 (104.70 to 105.70): BF0

Ion 77.00 (76.70 to 77.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-1

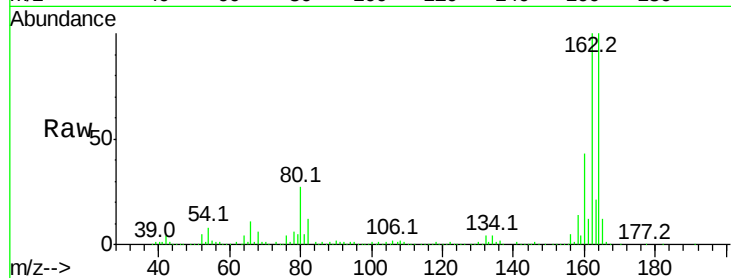
Tot Ion:164 Resp: 259761

Ion Ratio Lower Upper

164 100

162 100.3 80.2 120.2

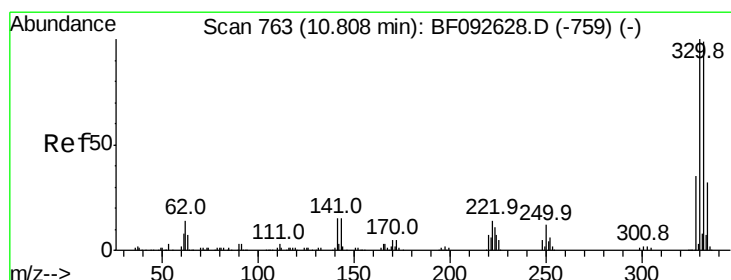
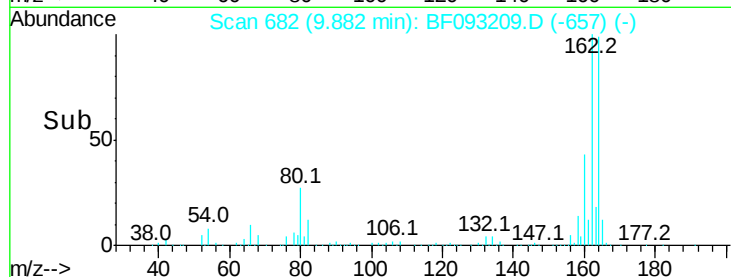
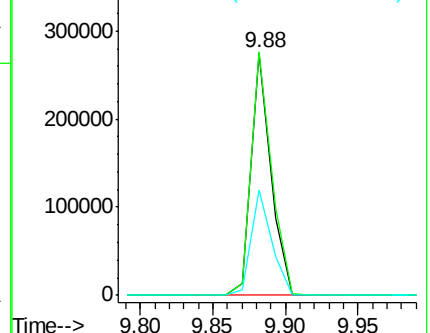
160 43.5 36.9 55.3



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: 20.57 ng

RT: 10.68 min Scan# 752

Delta R.T. -0.00 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

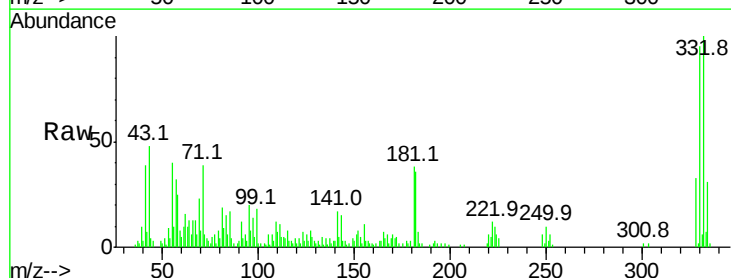
Tgt Ion:330 Resp: 38643

Ion Ratio Lower Upper

330 100

332 99.1 77.4 116.2

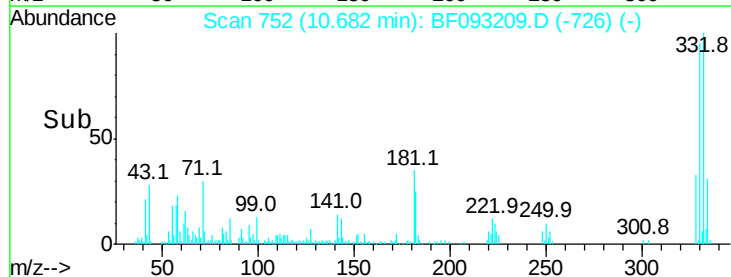
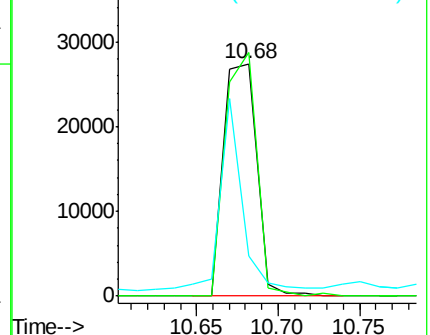
141 55.1 34.1 51.1#

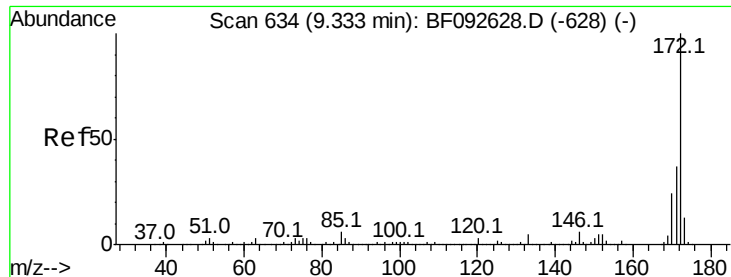


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

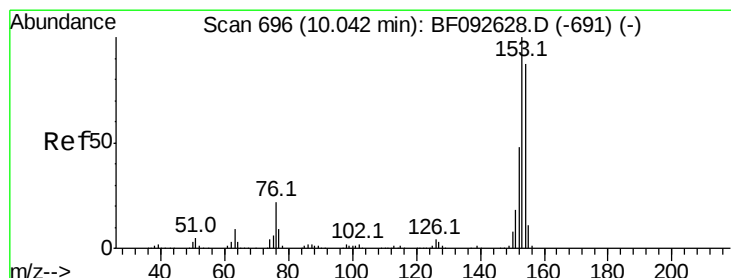
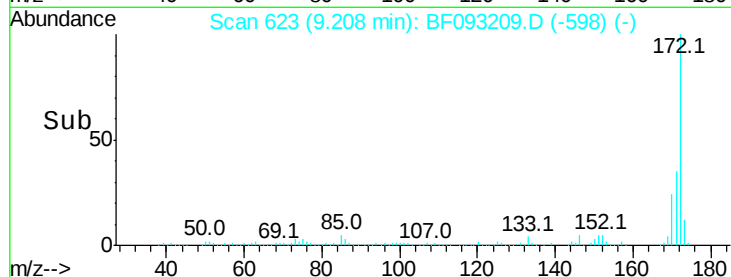
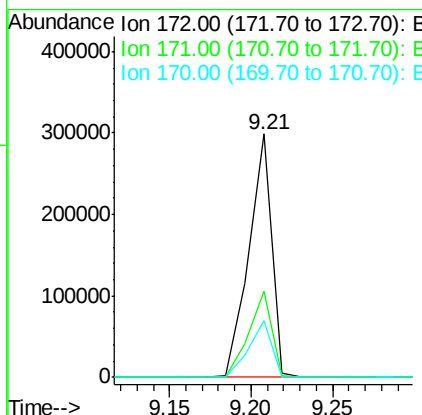
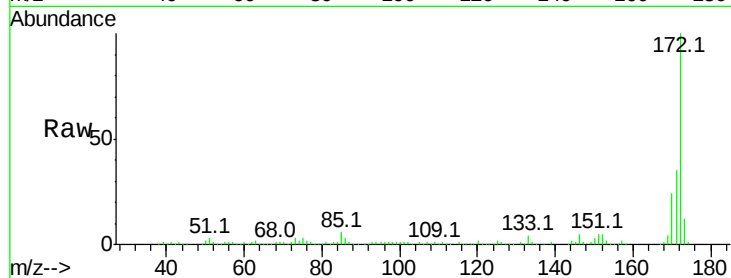




#44
 2-Fluorobiphenyl
 Concen: 20.26 ng
 RT: 9.21 min Scan# 623
 Delta R.T. -0.01 min
 Lab File: BF093209.D
 Acq: 27 Feb 2017 15:20

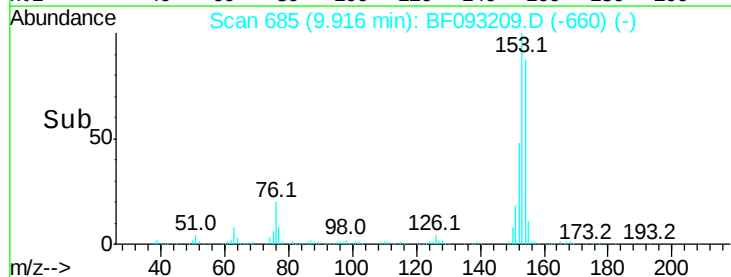
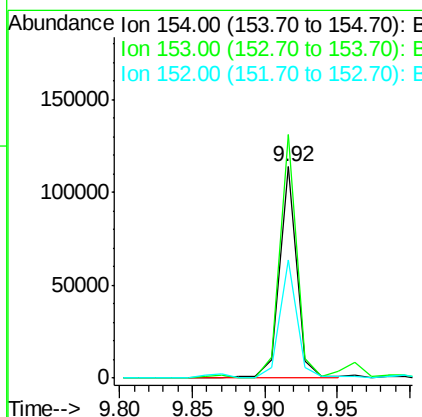
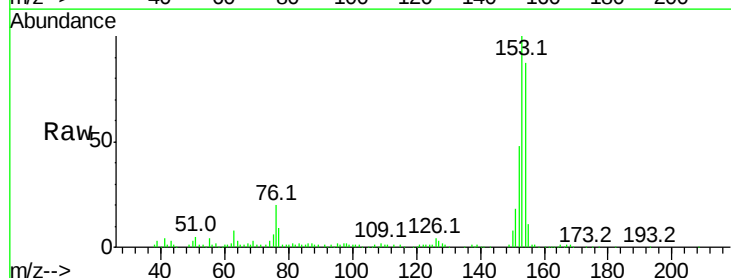
Instrument :
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 E2B15-BASE-1

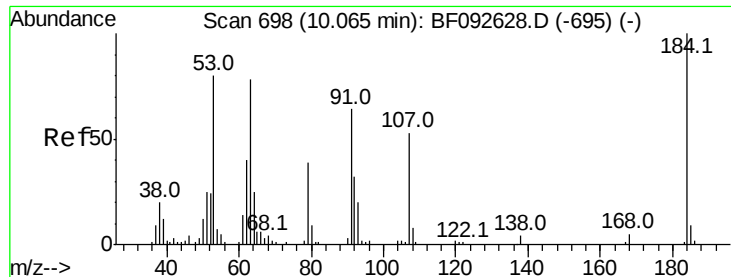
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.4	44.0
170	23.6	20.2	30.4



#51
 Acenaphthene
 Concen: 6.16 ng
 RT: 9.92 min Scan# 685
 Delta R.T. -0.01 min
 Lab File: BF093209.D
 Acq: 27 Feb 2017 15:20

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.3	88.6	133.0
152	55.8	41.6	62.4

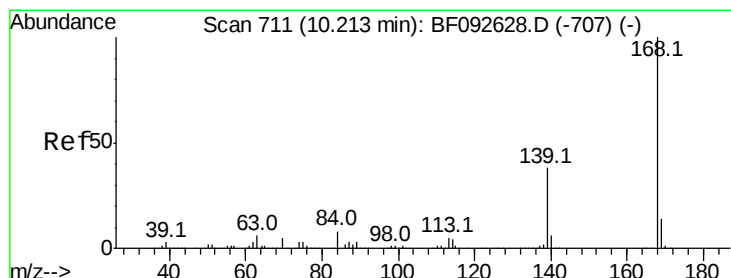
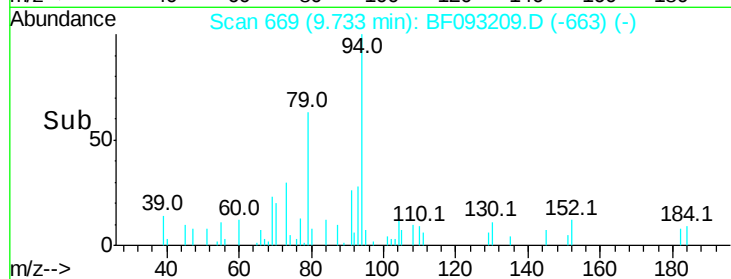
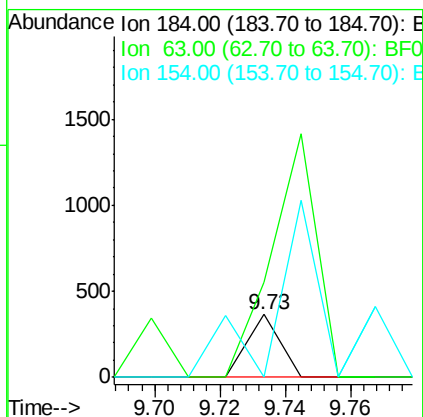
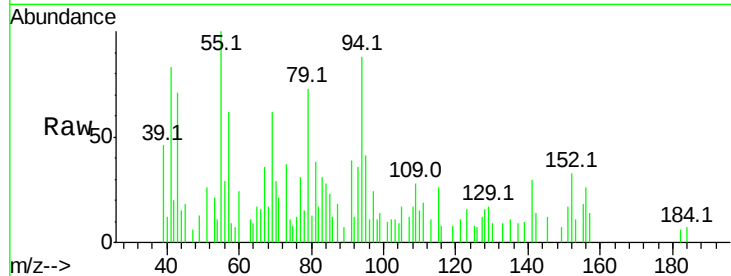




#53
 2,4-Dinitrophenol
 Concen: 4.86 ng
 RT: 9.73 min Scan# 669
 Delta R.T. -0.23 min
 Lab File: BF093209.D
 Acq: 27 Feb 2017 15:20

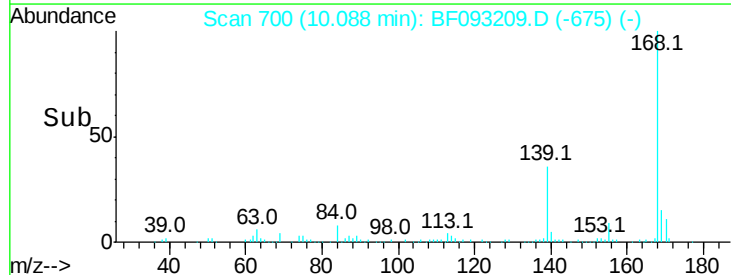
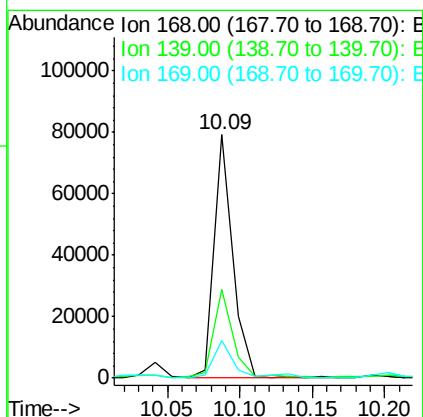
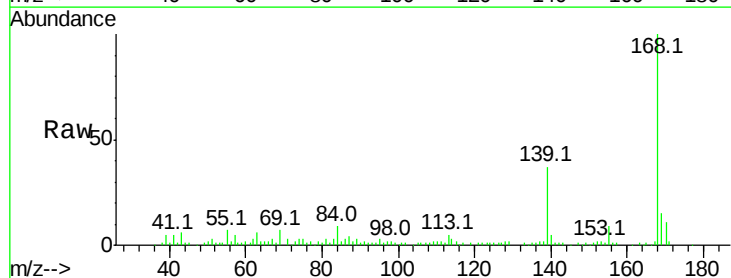
Instrument :
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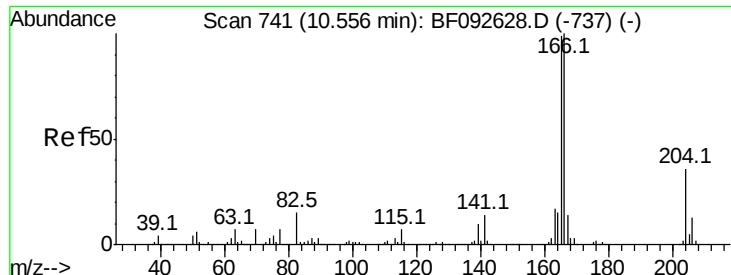
Tot Ion:184 Resp: 250
 Ion Ratio Lower Upper
 184 100
 63 152.5 28.4 42.6#
 154 0.0 44.3 66.5#



#54
 Dibenzofuran
 Concen: 3.51 ng
 RT: 10.09 min Scan# 700
 Delta R.T. -0.01 min
 Lab File: BF093209.D
 Acq: 27 Feb 2017 15:20

Tgt Ion:168 Resp: 71398
 Ion Ratio Lower Upper
 168 100
 139 36.5 32.6 49.0
 169 15.5 11.3 16.9

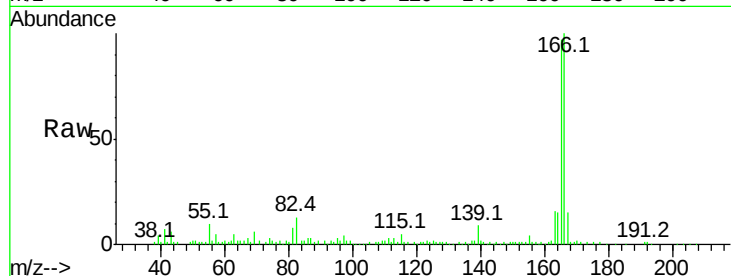




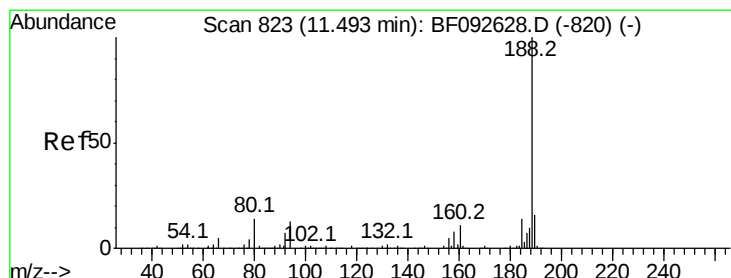
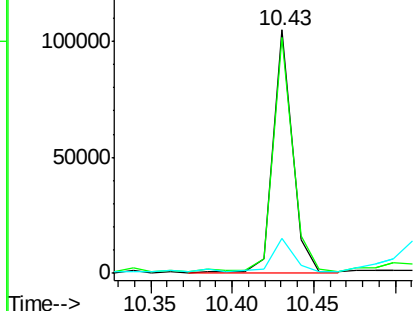
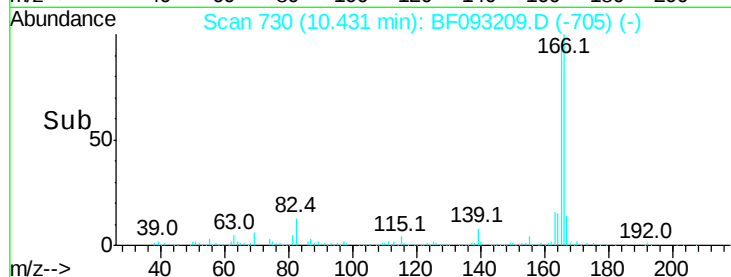
#57
Fluorene
 Concen: 5.53 ng
 RT: 10.43 min Scan# 730
 Delta R.T. -0.01 min
 Lab File: BF093209.D
 Acq: 27 Feb 2017 15:20

Instrument :
 BNA_F
 ClientSampleId :
 E2B15-BASE-1

Tot Ion:166 Resp: 86538
 Ion Ratio Lower Upper
 166 100
 165 96.9 77.8 116.8
 167 14.6 10.8 16.2

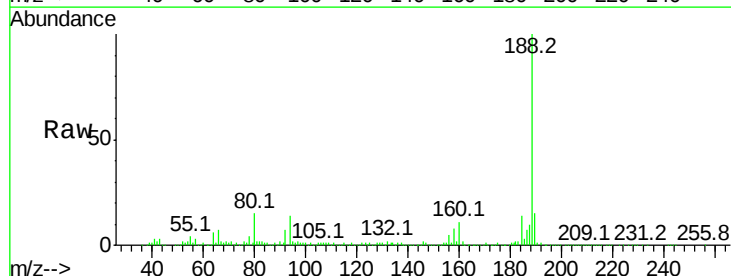


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

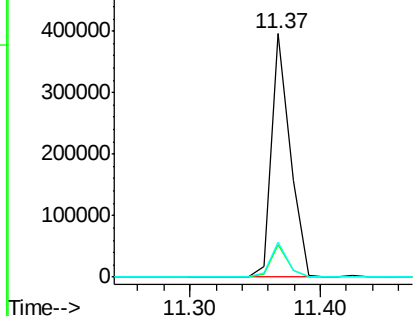
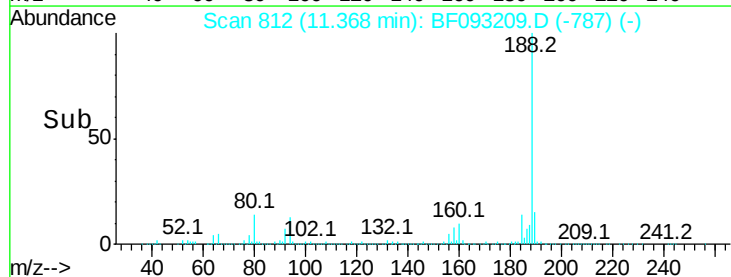


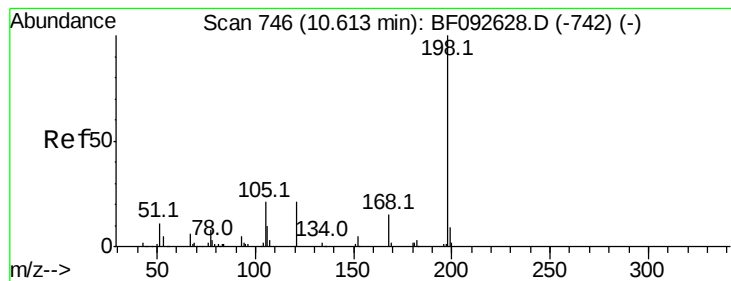
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.37 min Scan# 812
 Delta R.T. -0.01 min
 Lab File: BF093209.D
 Acq: 27 Feb 2017 15:20

Tgt Ion:188 Resp: 394304
 Ion Ratio Lower Upper
 188 100
 94 13.5 10.0 15.0
 80 14.5 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





#64

4,6-Dinitro-2-methylphenol

Concen: 2.75 ng

RT: 10.70 min Scan# 754

Delta R.T. 0.21 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-1

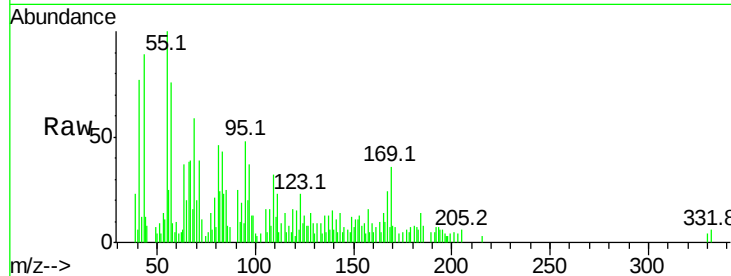
Tot Ion:198 Resp: 211

Ion Ratio Lower Upper

198 100

51 275.6 6.7 46.7#

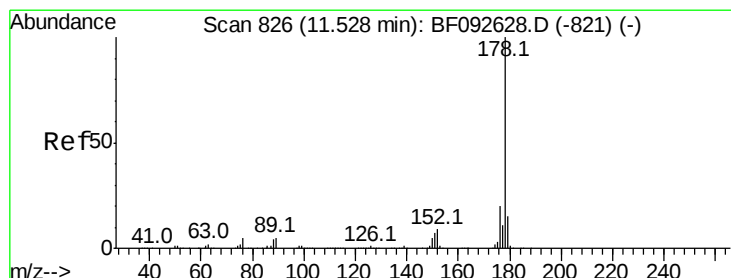
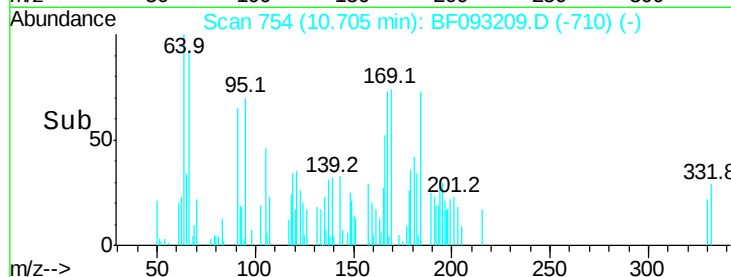
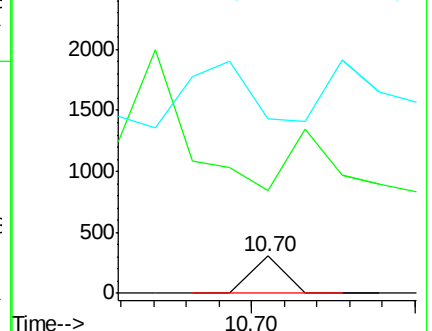
105 467.8 16.6 56.6#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#70

Phenanthrene

Concen: 33.42 ng

RT: 11.39 min Scan# 814

Delta R.T. -0.01 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

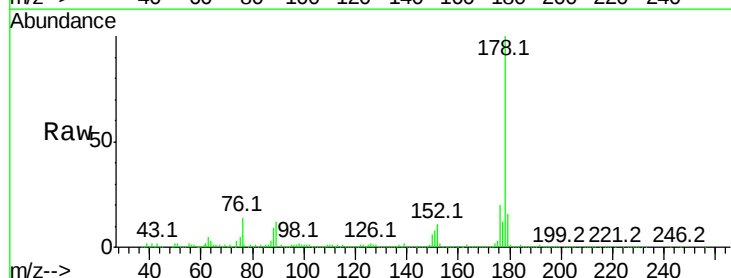
Tgt Ion:178 Resp: 754935

Ion Ratio Lower Upper

178 100

176 19.9 16.6 25.0

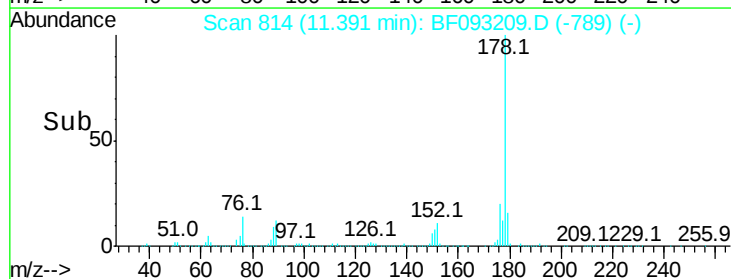
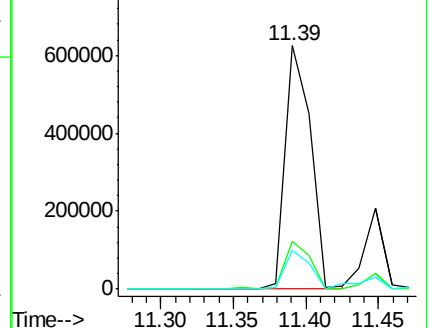
179 16.1 12.8 19.2

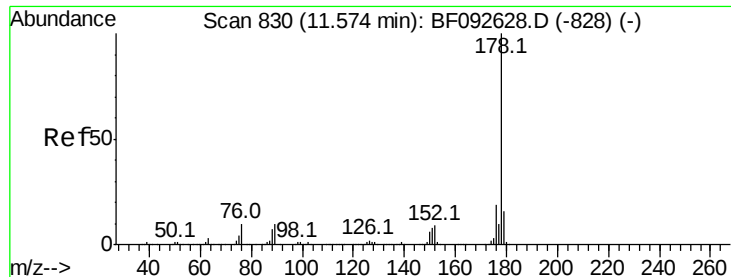


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

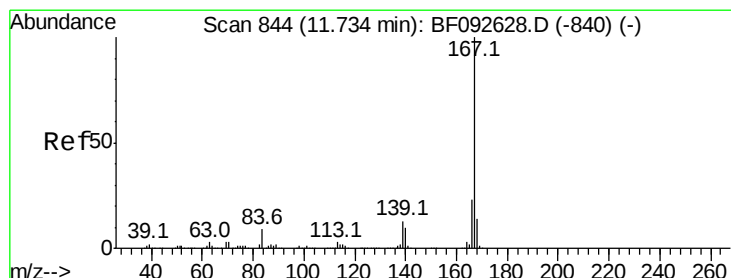
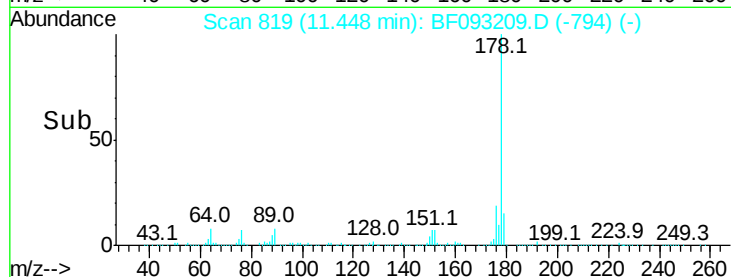
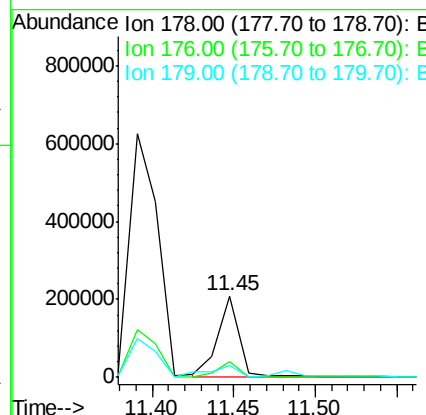
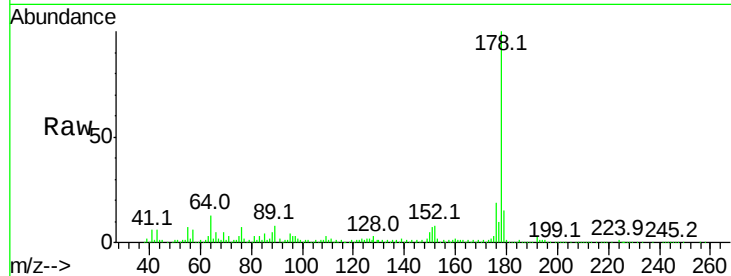




#71
 Anthracene
 Concen: 8.34 ng
 RT: 11.45 min Scan# 819
 Delta R.T. -0.01 min
 Lab File: BF093209.D
 Acq: 27 Feb 2017 15:20

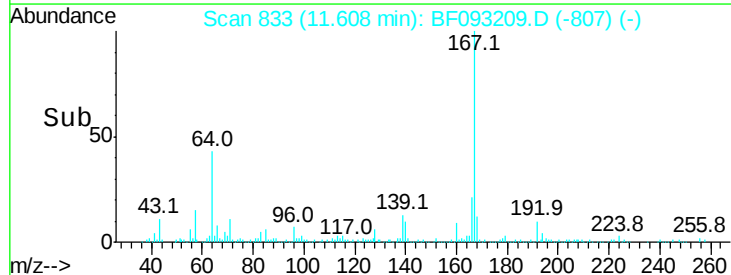
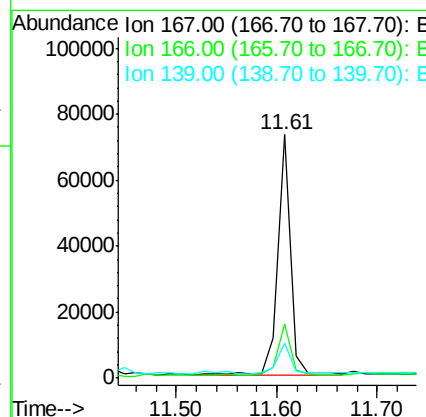
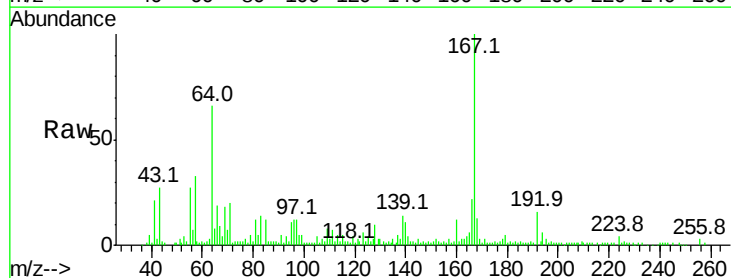
Instrument :
 BNA_F
 ClientSampleId :
 E2B15-BASE-1

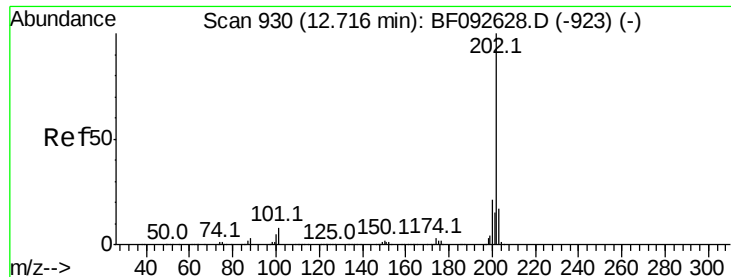
Tot Ion:178 Resp: 189235
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.9 23.9
 179 15.2 13.2 19.8



#72
 Carbazole
 Concen: 2.97 ng
 RT: 11.61 min Scan# 833
 Delta R.T. -0.00 min
 Lab File: BF093209.D
 Acq: 27 Feb 2017 15:20

Tgt Ion:167 Resp: 64362
 Ion Ratio Lower Upper
 167 100
 166 22.1 18.2 27.2
 139 14.2 11.4 17.2





#74

Fluoranthene

Concen: 28.86 ng

RT: 12.59 min Scan# 919

Delta R.T. -0.00 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-1

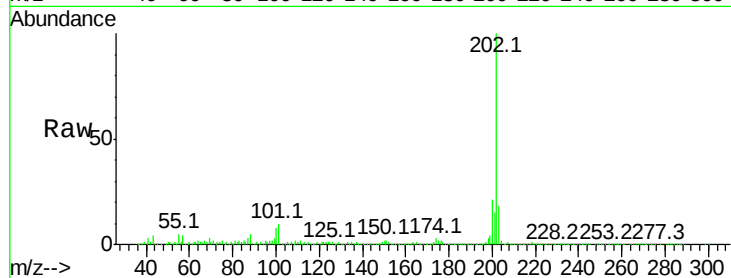
Tot Ion:202 Resp: 672551

Ion Ratio Lower Upper

202 100

101 10.3 0.0 34.6

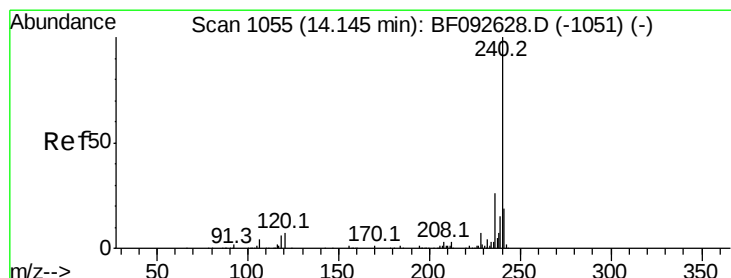
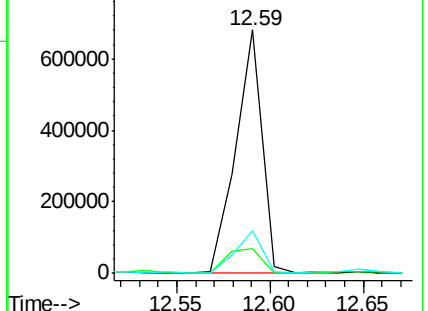
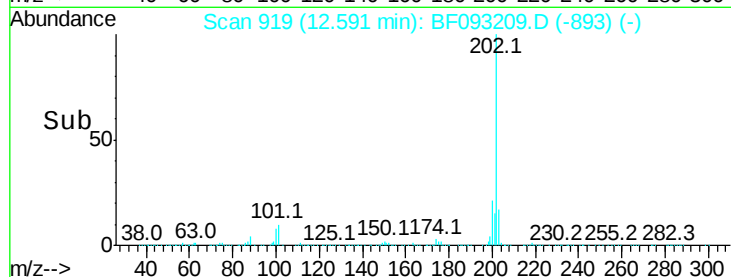
203 17.5 0.0 38.7



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: 14.02 min Scan# 1044

Delta R.T. -0.00 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

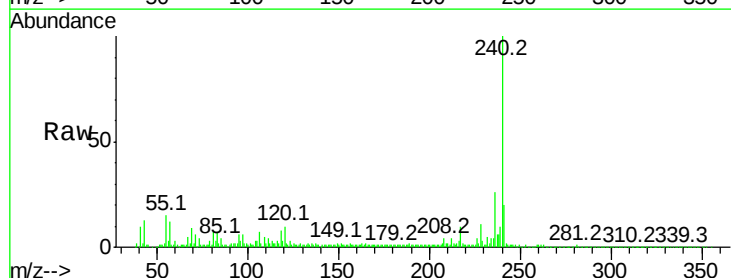
Tgt Ion:240 Resp: 328710

Ion Ratio Lower Upper

240 100

120 10.3 12.9 19.3#

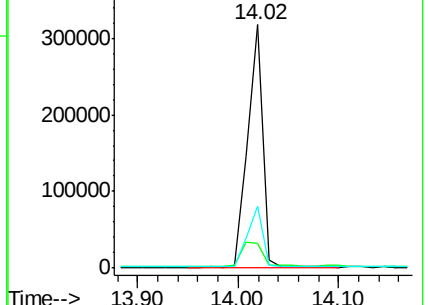
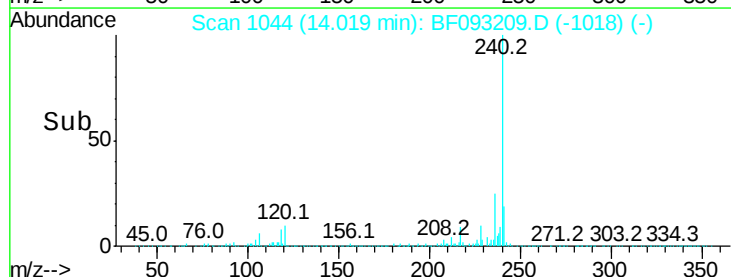
236 25.6 20.9 31.3

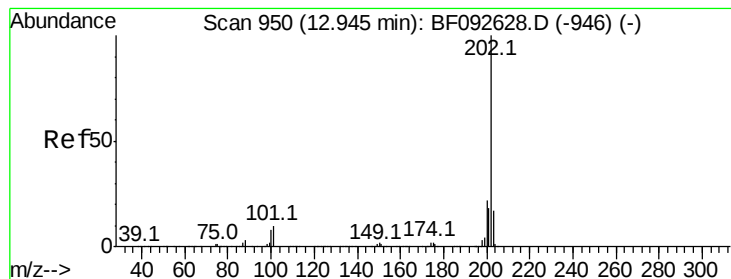


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 25.09 ng

RT: 12.82 min Scan# 939

Delta R.T. -0.00 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-1

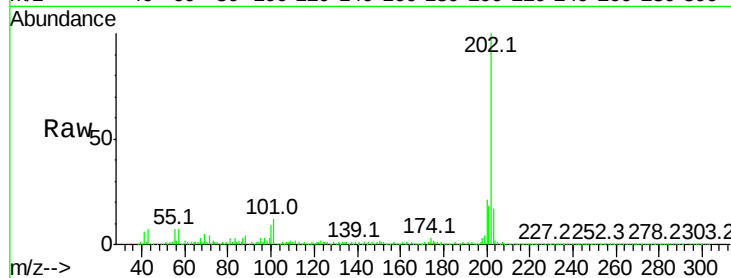
Tot Ion:202 Resp: 617201

Ion Ratio Lower Upper

202 100

200 21.2 17.7 26.5

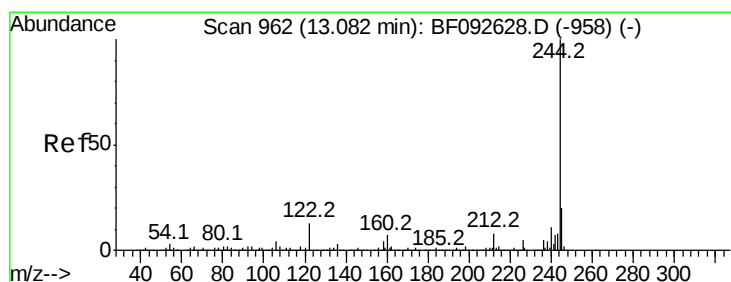
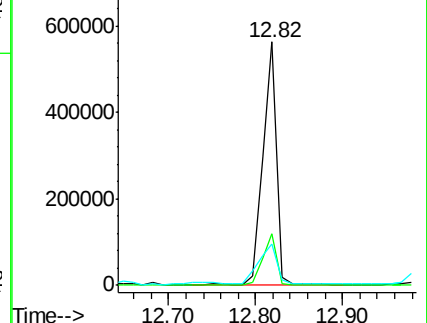
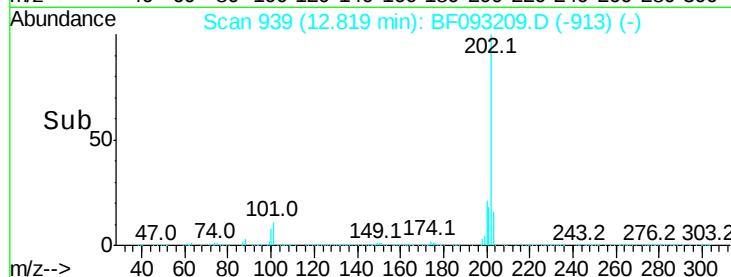
203 17.1 14.7 22.1



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: 12.78 ng

RT: 12.96 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

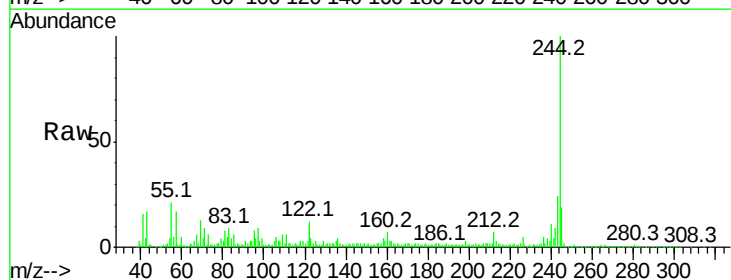
Tgt Ion:244 Resp: 178804

Ion Ratio Lower Upper

244 100

212 7.5 6.2 9.2

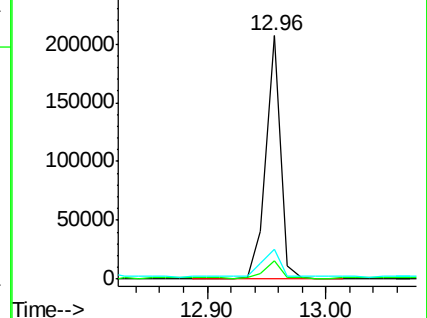
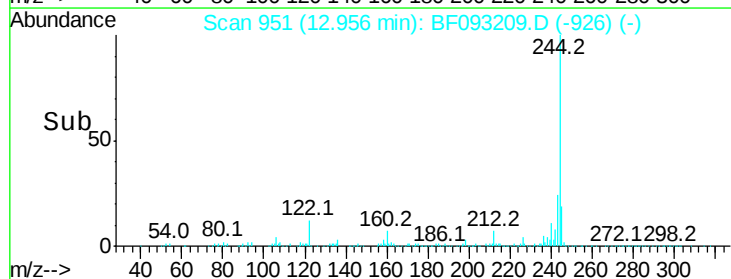
122 12.5 11.4 17.2

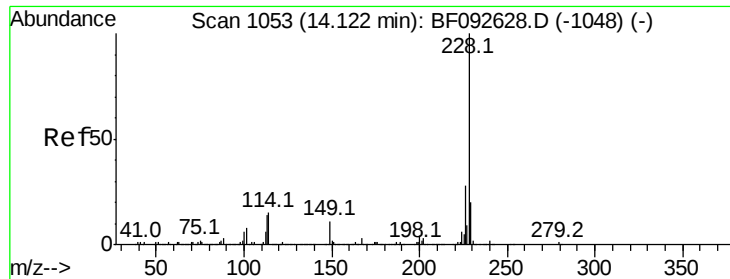


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 14.11 ng

RT: 14.01 min Scan# 1043

Delta R.T. -0.00 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-1

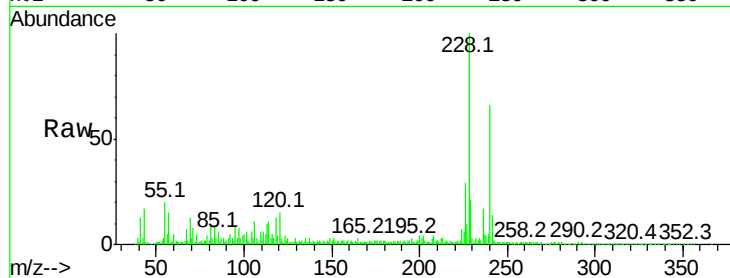
Tot Ion:228 Resp: 283766

Ion Ratio Lower Upper

228 100

226 28.7 22.4 33.6

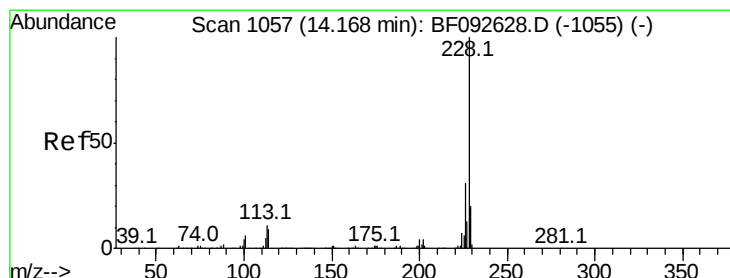
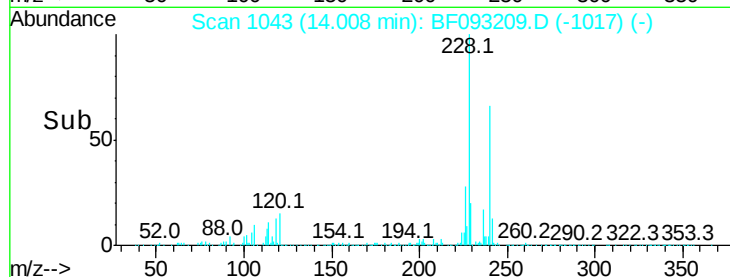
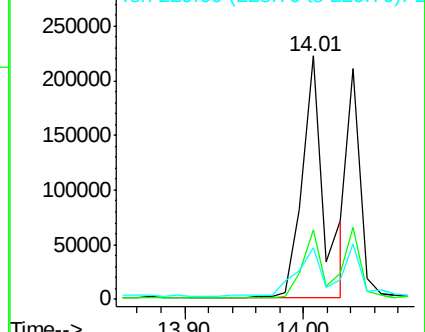
229 21.1 16.2 24.4



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: 15.08 ng

RT: 14.01 min Scan# 1043

Delta R.T. -0.03 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

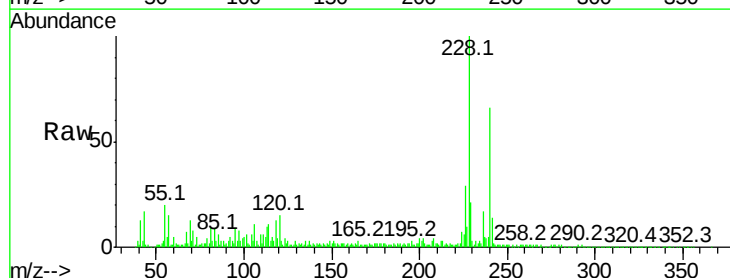
Tgt Ion:228 Resp: 283766

Ion Ratio Lower Upper

228 100

226 28.7 25.4 38.0

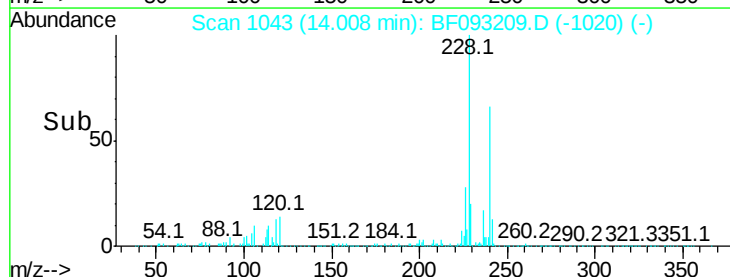
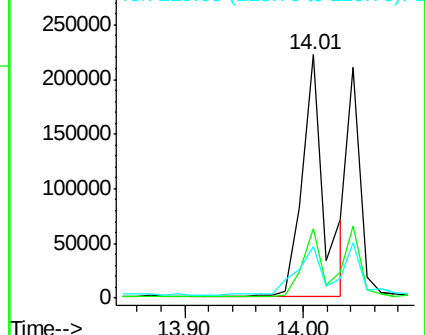
229 21.1 16.2 24.2

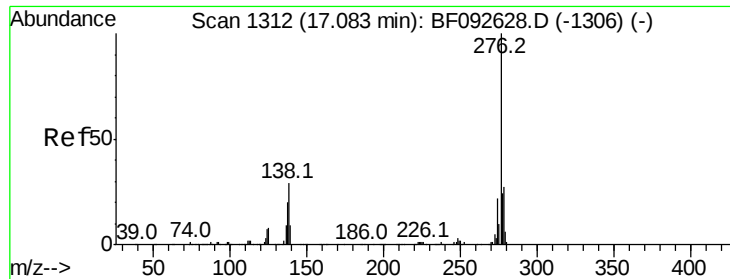


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

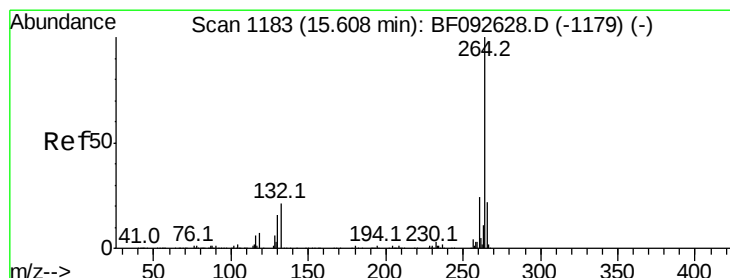
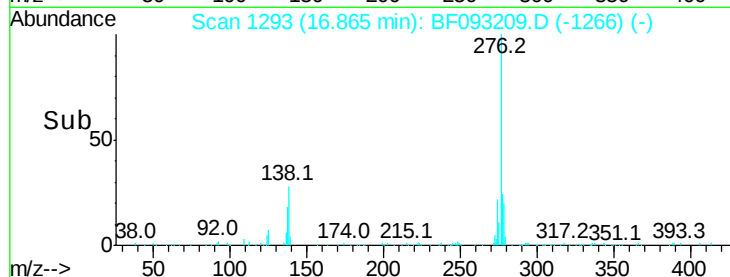
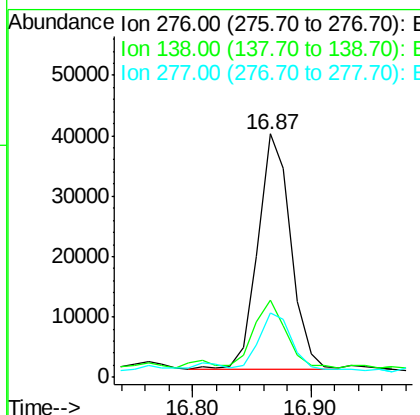
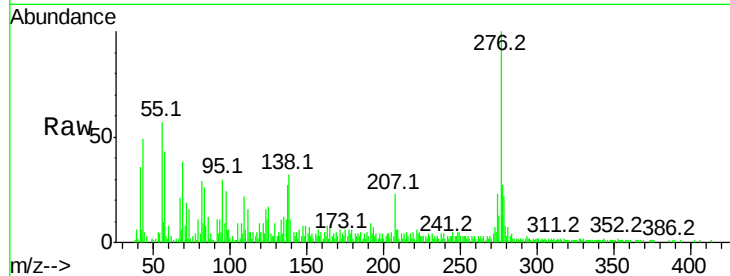




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.21 ng
 RT: 16.87 min Scan# 1293
 Delta R.T. 0.01 min
 Lab File: BF093209.D
 Acq: 27 Feb 2017 15:20

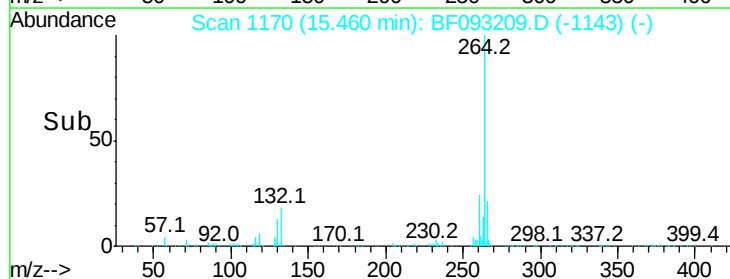
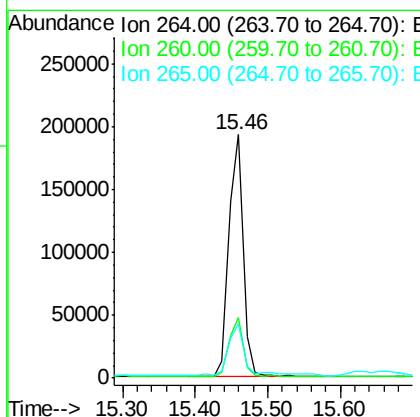
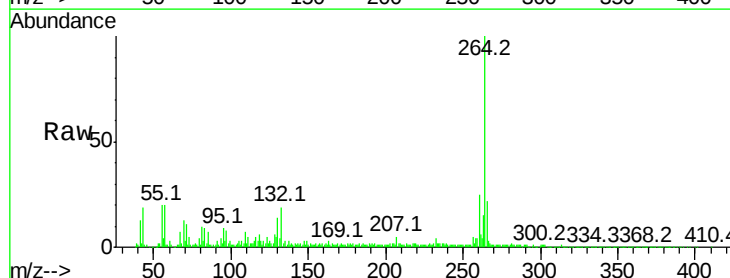
Instrument :
 BNA_F
 ClientSampleId :
 E2B15-BASE-1

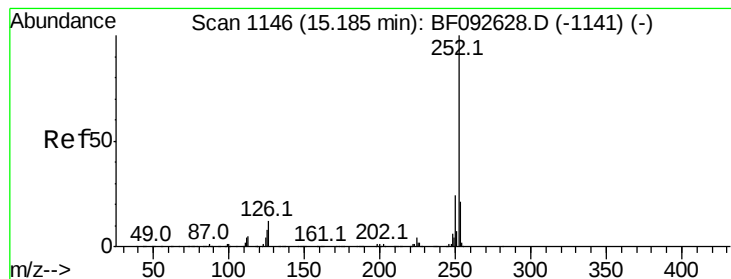
Tot Ion:276 Resp: 75904
 Ion Ratio Lower Upper
 276 100
 138 27.4 21.8 32.6
 277 24.5 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.46 min Scan# 1170
 Delta R.T. 0.01 min
 Lab File: BF093209.D
 Acq: 27 Feb 2017 15:20

Tgt Ion:264 Resp: 264677
 Ion Ratio Lower Upper
 264 100
 260 24.9 19.2 28.8
 265 22.0 17.4 26.0





#87

Benzo(b)fluoranthene

Concen: 17.04 ng

RT: 15.05 min Scan# 1134

Delta R.T. 0.01 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-1

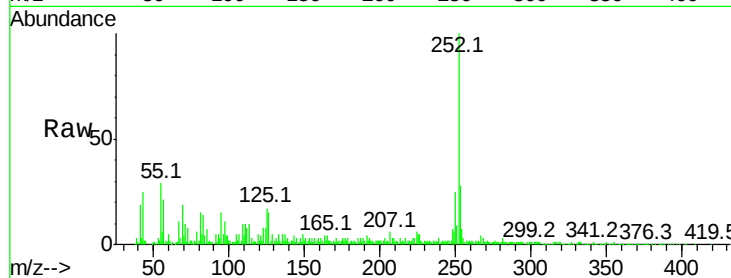
Tot Ion:252 Resp: 296926

Ion Ratio Lower Upper

252 100

253 28.1 18.2 27.4#

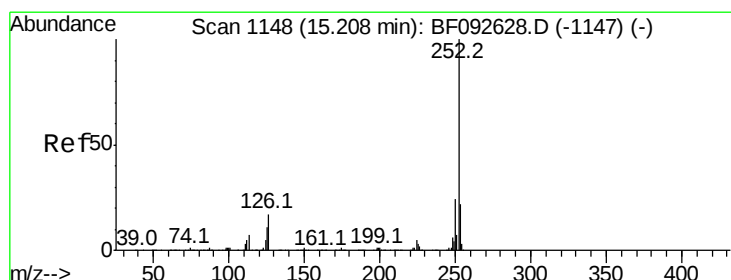
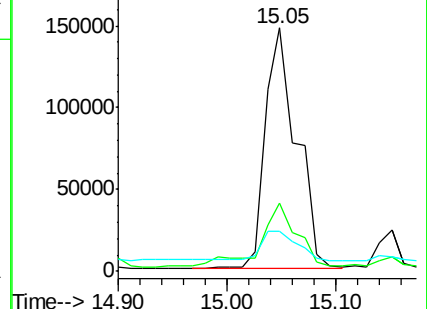
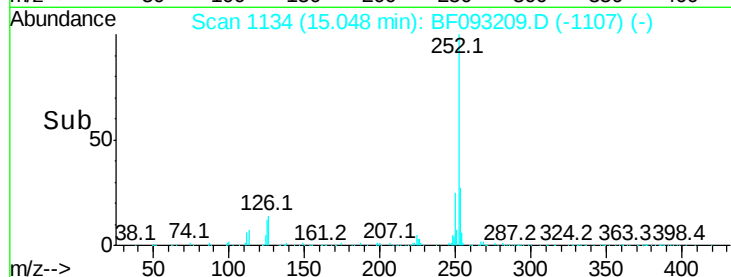
125 16.6 9.8 14.6#



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: 19.74 ng

RT: 15.05 min Scan# 1134

Delta R.T. -0.02 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

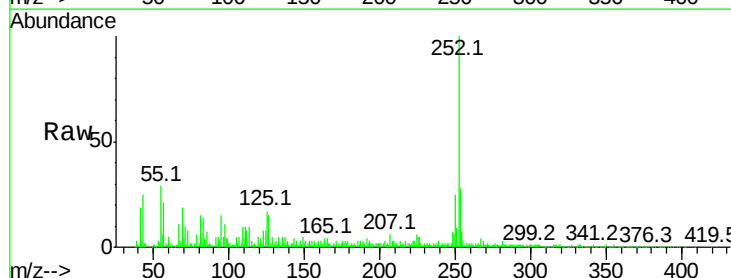
Tgt Ion:252 Resp: 296926

Ion Ratio Lower Upper

252 100

253 28.1 18.5 27.7#

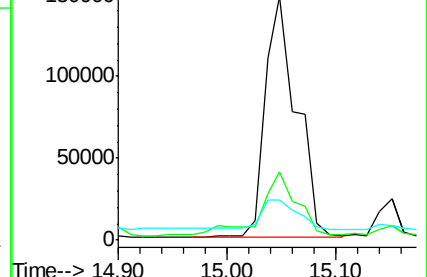
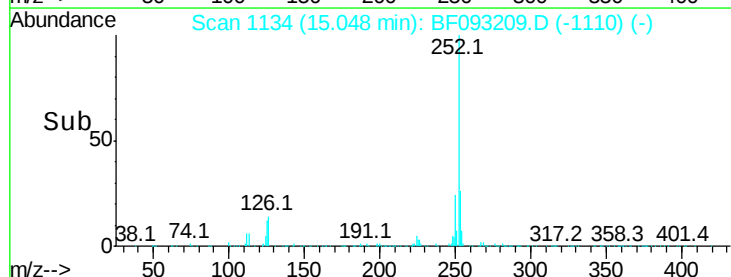
125 16.6 8.9 13.3#

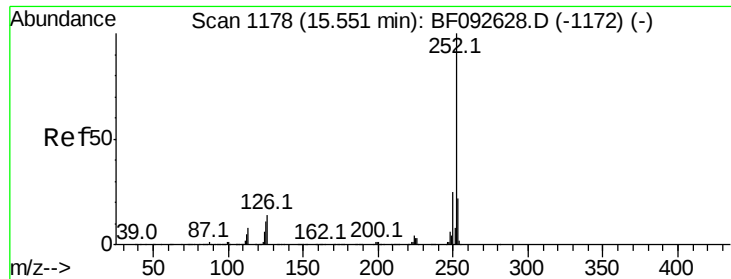


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 10.71 ng

RT: 15.39 min Scan# 1164

Delta R.T. -0.00 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-1

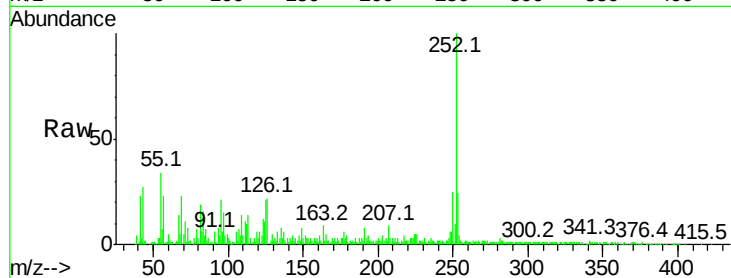
Tot Ion:252 Resp: 161364

Ion Ratio Lower Upper

252 100

253 24.1 18.2 27.2

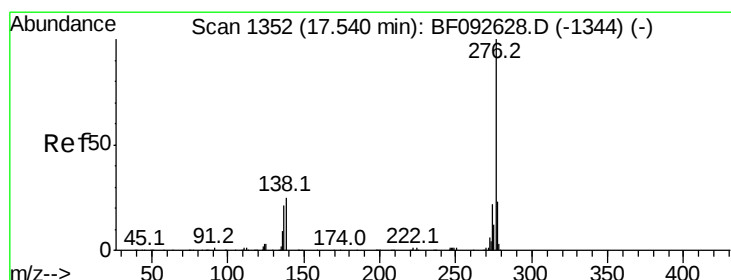
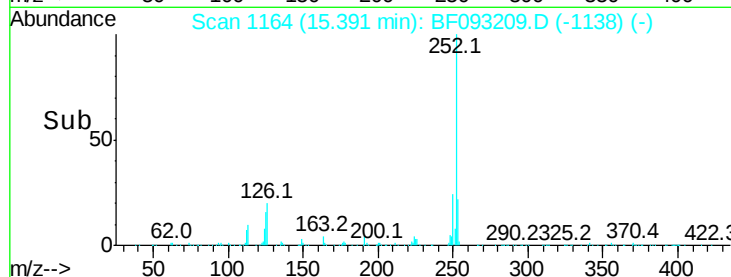
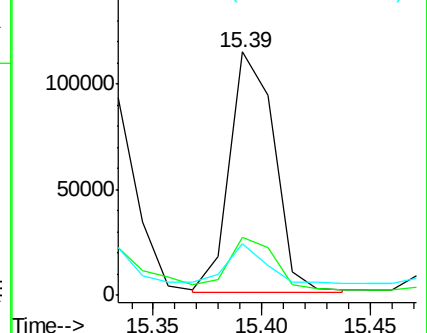
125 21.1 10.0 15.0#



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



#91

Benzo(g,h,i)perylene

Concen: 6.33 ng

RT: 17.30 min Scan# 1331

Delta R.T. 0.01 min

Lab File: BF093209.D

Acq: 27 Feb 2017 15:20

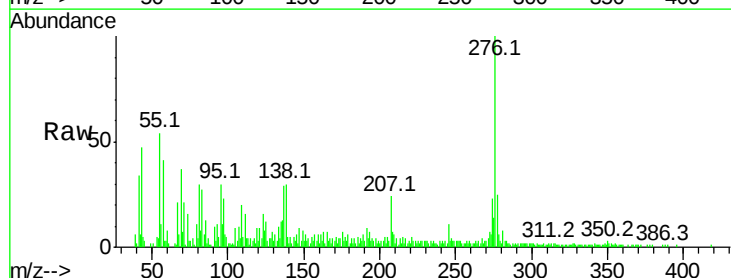
Tgt Ion:276 Resp: 77872

Ion Ratio Lower Upper

276 100

277 24.7 19.2 28.8

138 30.0 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

