

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022717\
 Data File : BF093211.D
 Acq On : 27 Feb 2017 16:15
 Operator : SJ/MA
 Sample : I1972-03 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2B15-BASE-3

Quant Time: Feb 27 17:52:58 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

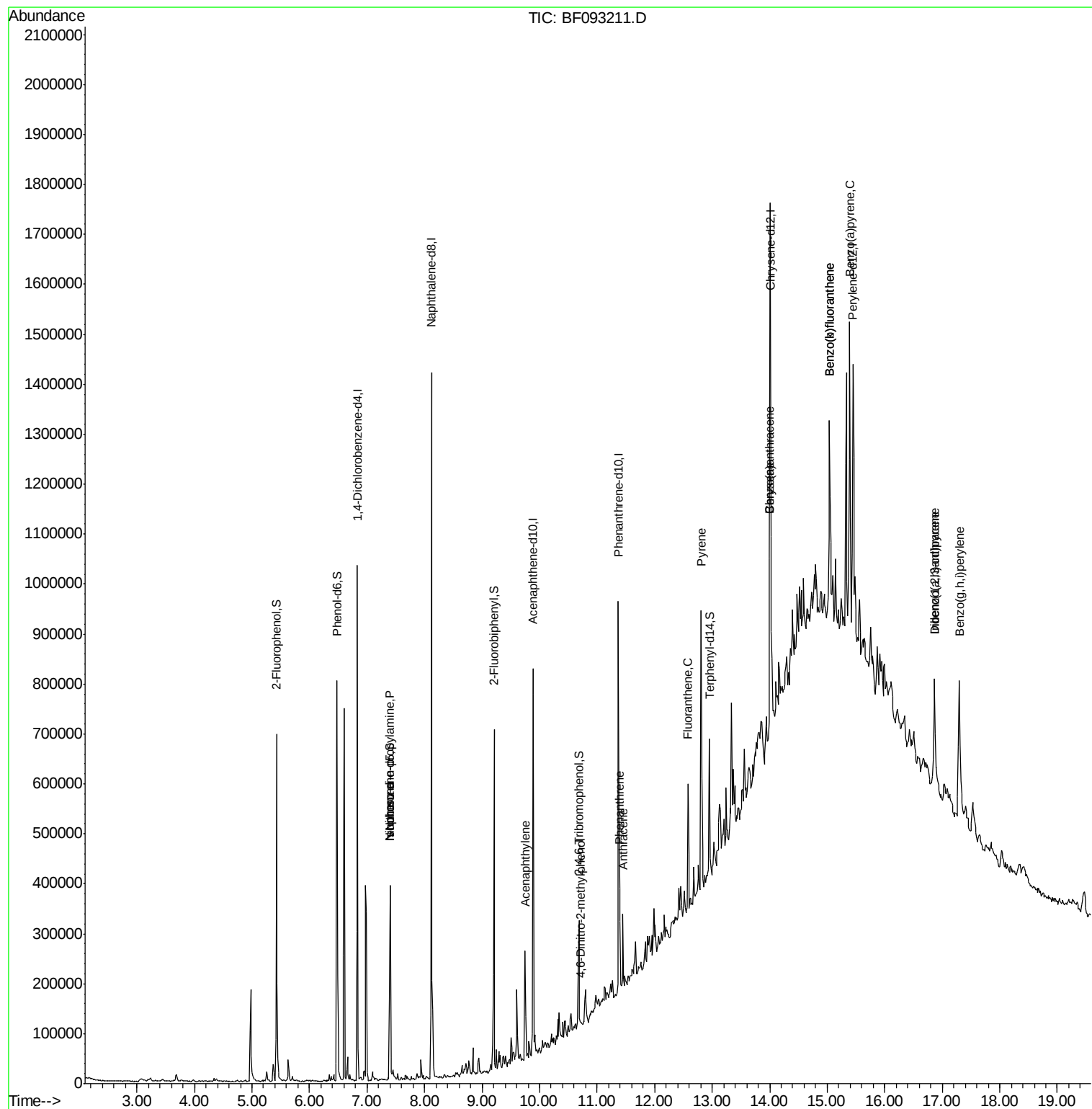
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	161119	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	579401	20.00	ng	-0.02
38) Acenaphthene-d10	9.88	164	223934	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	325709	20.00	ng	-0.01
75) Chrysene-d12	14.01	240	336527	20.00	ng	-0.01
86) Perylene-d12	15.45	264	268475	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	205645	21.90	ng	-0.02
7) Phenol-d6	6.48	99	266472	22.05	ng	-0.01
23) Nitrobenzene-d5	7.40	82	142897	13.73	ng	-0.02
41) 2,4,6-Tribromophenol	10.68	330	28680	17.71	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	215612	17.44	ng	-0.01
78) Terphenyl-d14	12.96	244	123385	8.61	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	18823	2.45	ng	# 79
25) Isophorone	7.40	82	102203	5.27	ng	# 65
48) Acenaphthylene	9.74	152	95767	4.37	ng	99
64) 4,6-Dinitro-2-methylphenol	10.72	198	212	2.77	ng	# 1
70) Phenanthrene	11.39	178	97326	5.22	ng	98
71) Anthracene	11.45	178	54429	2.90	ng	97
74) Fluoranthene	12.58	202	111794	5.81	ng	95
77) Pyrene	12.81	202	245986	9.77	ng	98
80) Benzo(a)anthracene	14.00	228	236549	11.49	ng	# 81
82) Chrysene	14.00	228	236549	12.27	ng	# 86
85) Indeno(1,2,3-cd)pyrene	16.87	276	138845	9.30	ng	97
87) Benzo(b)fluoranthene	15.04	252	264820	14.99	ng	# 89
88) Benzo(k)fluoranthene	15.04	252	264820	17.36	ng	# 89
89) Benzo(a)pyrene	15.39	252	280173	18.33	ng	98
90) Dibenzo(a,h)anthracene	16.87	278	34478	2.79	ng	# 80
91) Benzo(g,h,i)perylene	17.30	276	230958	18.51	ng	# 92

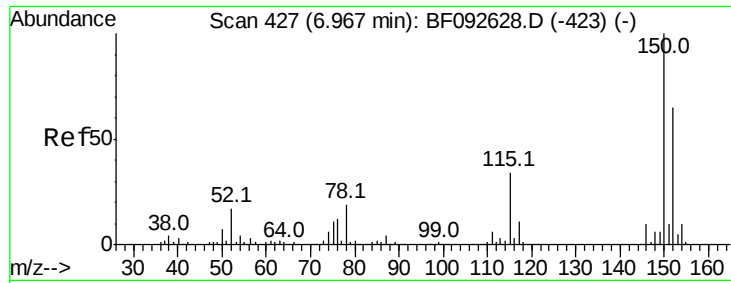
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF093211.D

Acq: 27 Feb 2017 16:15

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-3

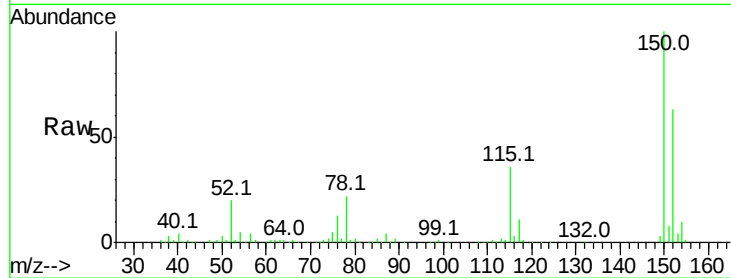
Tot Ion:152 Resp: 161119

Ion Ratio Lower Upper

152 100

150 158.1 124.9 187.3

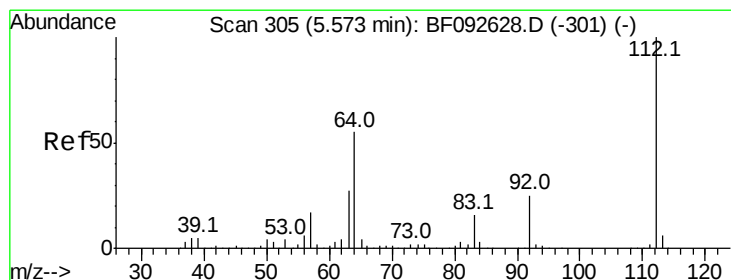
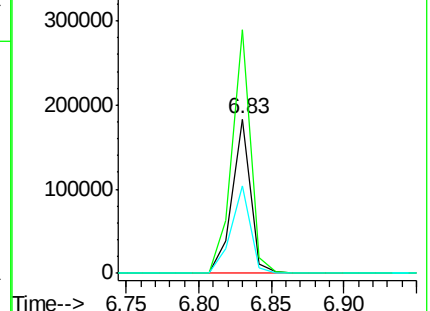
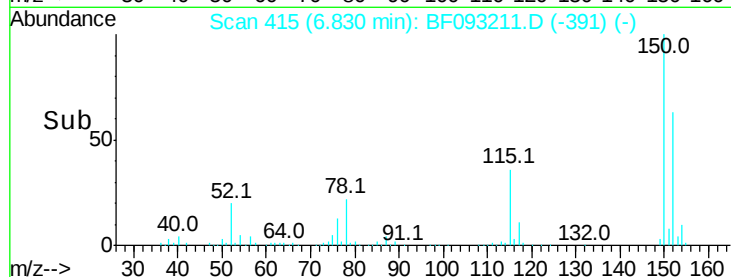
115 56.8 46.0 69.0



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: 21.90 ng

RT: 5.42 min Scan# 292

Delta R.T. -0.02 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

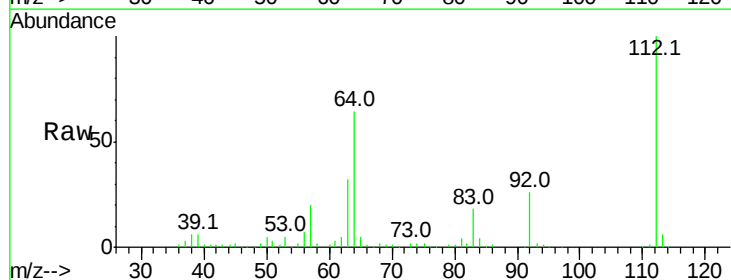
Tgt Ion:112 Resp: 205645

Ion Ratio Lower Upper

112 100

64 63.8 46.1 69.1

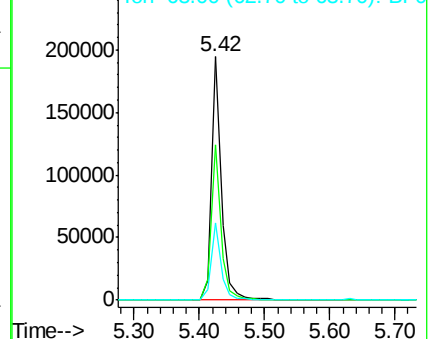
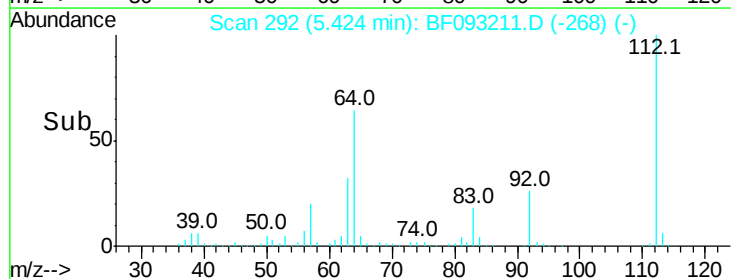
63 31.9 23.8 35.6

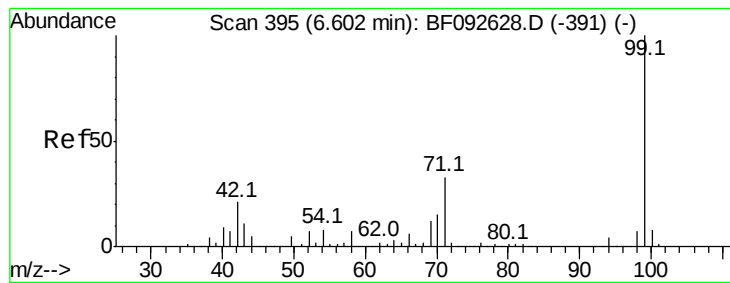


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 22.05 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-3

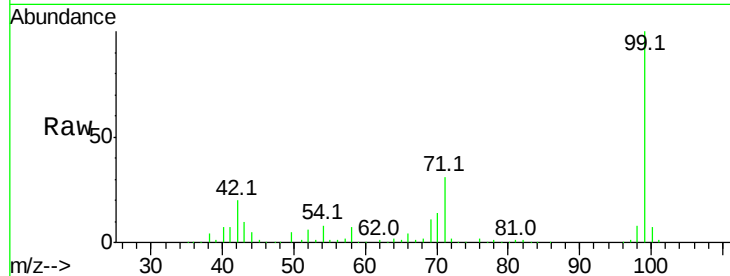
Tot Ion: 99 Resp: 266472

Ion Ratio Lower Upper

99 100

42 19.9 15.6 23.4

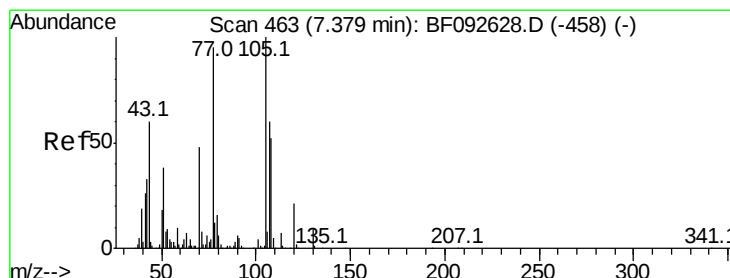
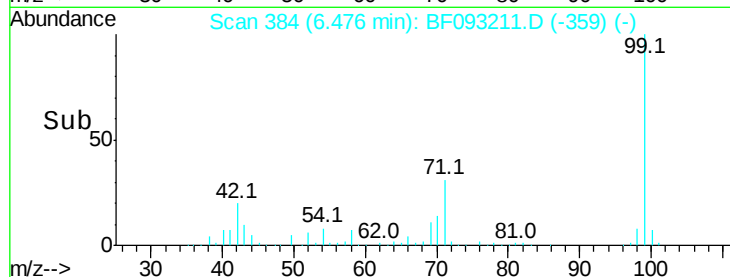
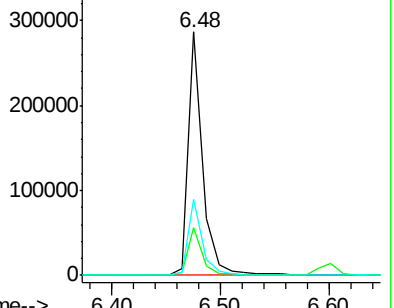
71 31.1 27.5 41.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.45 ng

RT: 7.40 min Scan# 465

Delta R.T. 0.13 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

Tgt Ion: 70 Resp: 18823

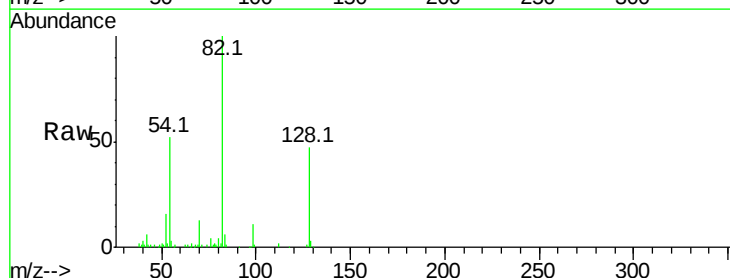
Ion Ratio Lower Upper

70 100

42 49.0 49.4 74.0#

101 0.0 7.4 11.2#

130 2.2 14.2 21.4#

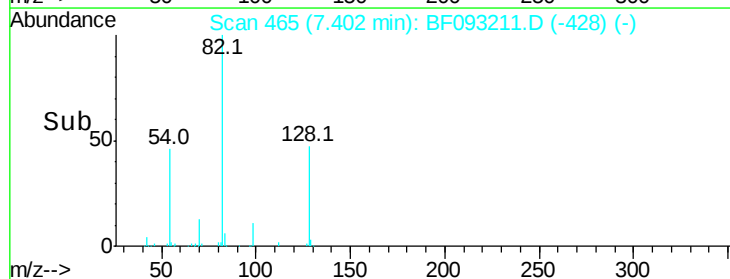
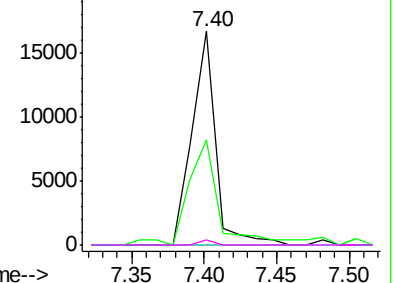


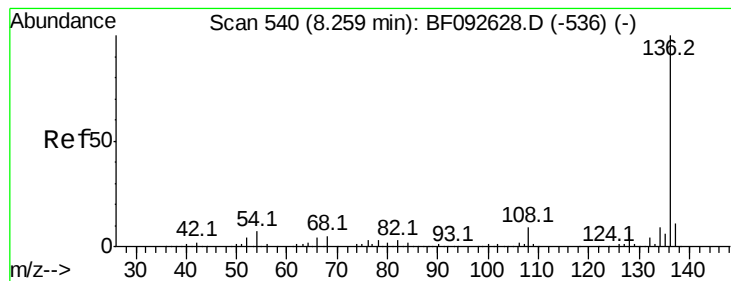
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.12 min Scan# 528

Delta R.T. -0.02 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-3

Tot Ion:136 Resp: 579401

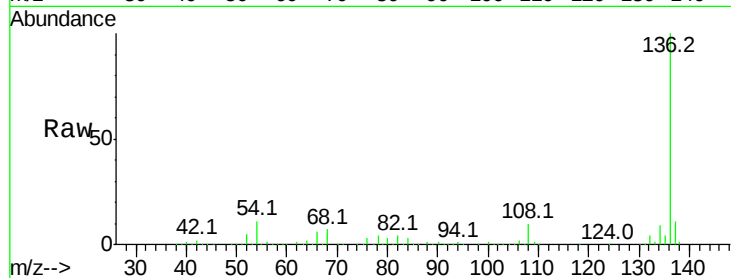
Ion Ratio Lower Upper

136 100

137 11.4 8.4 12.6

54 10.6 4.5 6.7#

68 7.4 3.6 5.4#

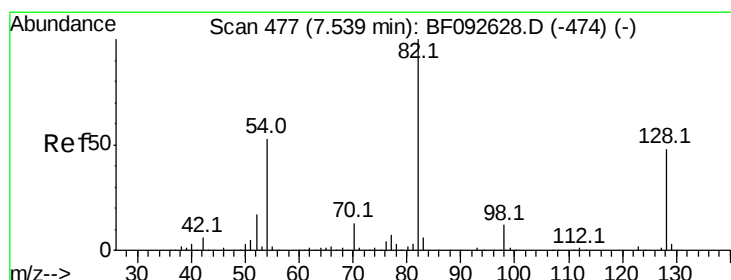
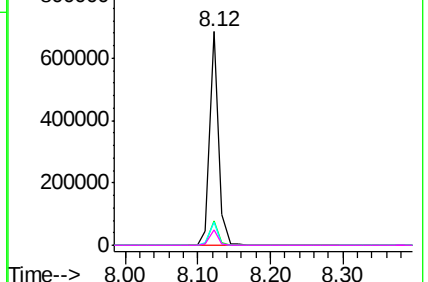
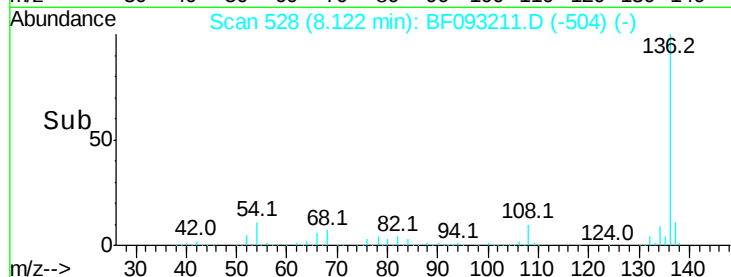


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.73 ng

RT: 7.40 min Scan# 465

Delta R.T. -0.02 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

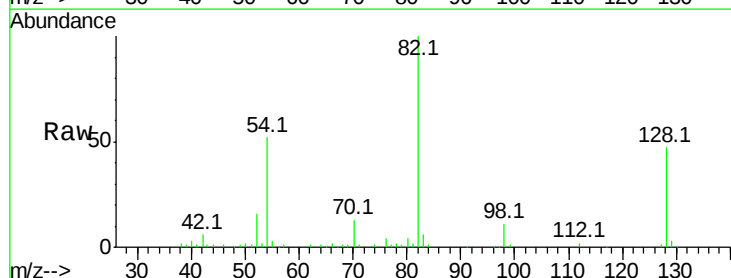
Tgt Ion: 82 Resp: 142897

Ion Ratio Lower Upper

82 100

128 47.2 34.6 52.0

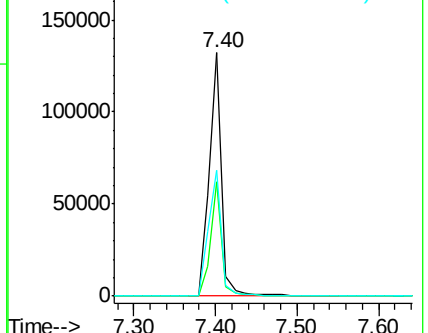
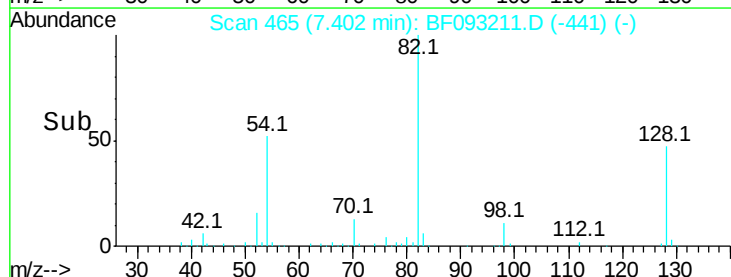
54 51.8 39.5 59.3

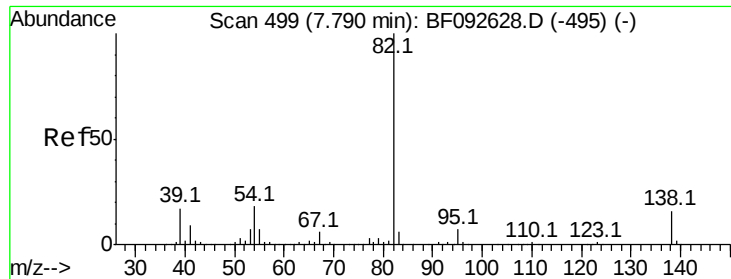


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 5.27 ng

RT: 7.40 min Scan# 465

Delta R.T. -0.29 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-3

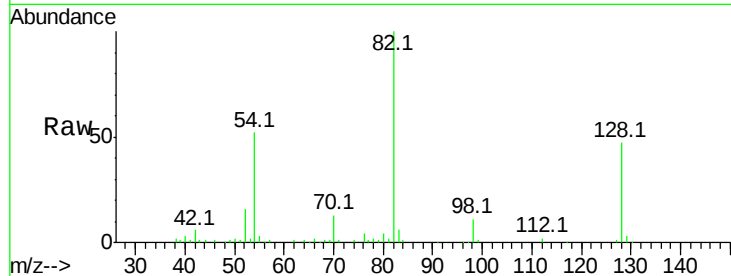
Tot Ion: 82 Resp: 102203

Ion Ratio Lower Upper

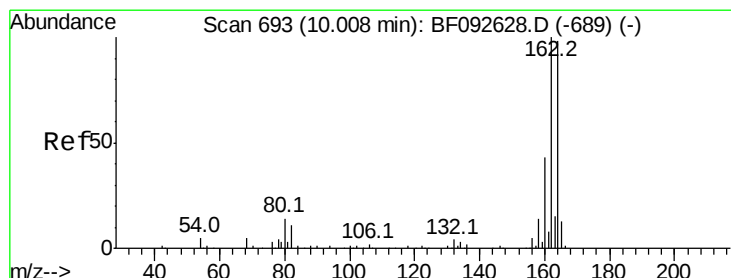
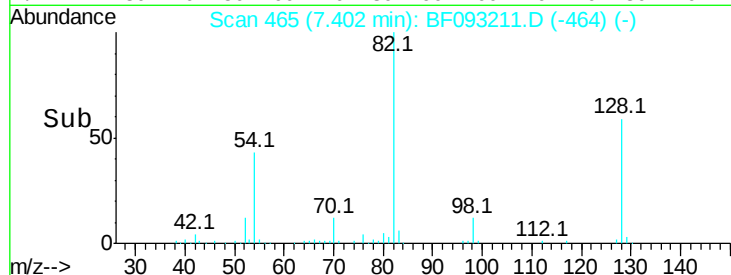
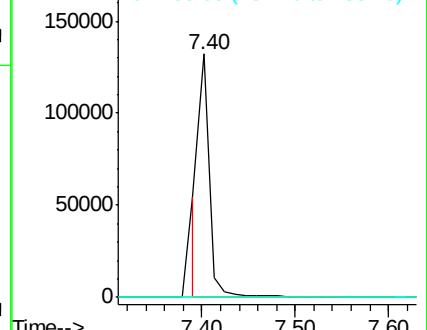
82 100

95 0.0 5.6 8.4#

138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

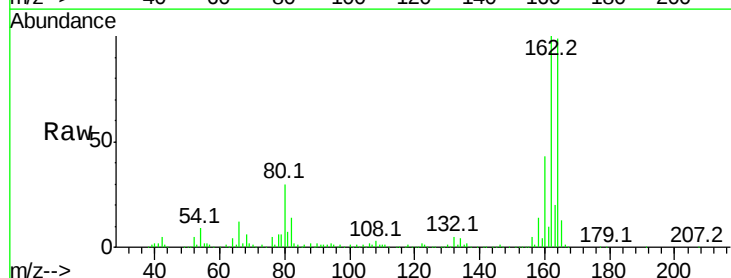
Tgt Ion:164 Resp: 223934

Ion Ratio Lower Upper

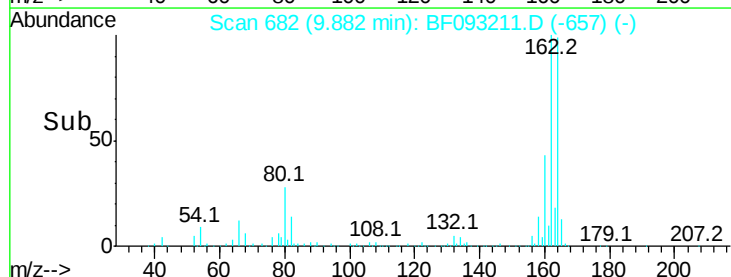
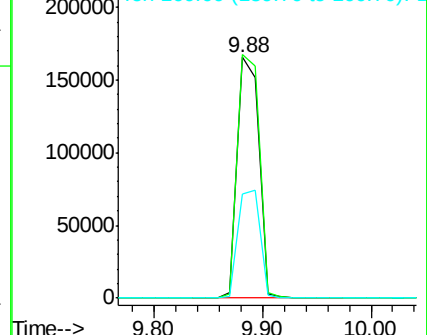
164 100

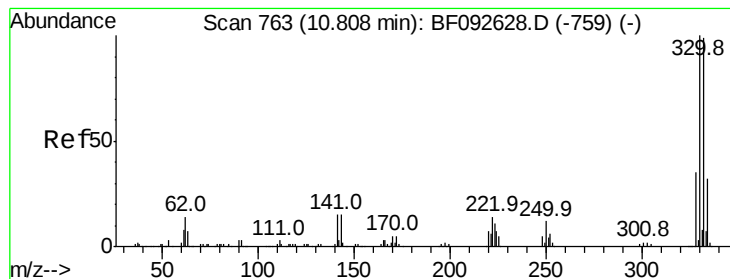
162 101.1 80.2 120.2

160 43.0 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: 17.71 ng

RT: 10.68 min Scan# 752

Delta R.T. -0.00 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-3

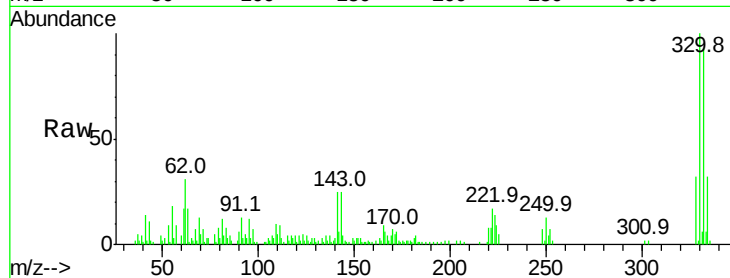
Tot Ion:330 Resp: 28680

Ion Ratio Lower Upper

330 100

332 94.5 77.4 116.2

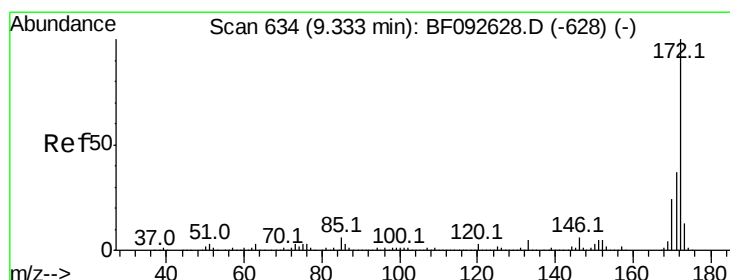
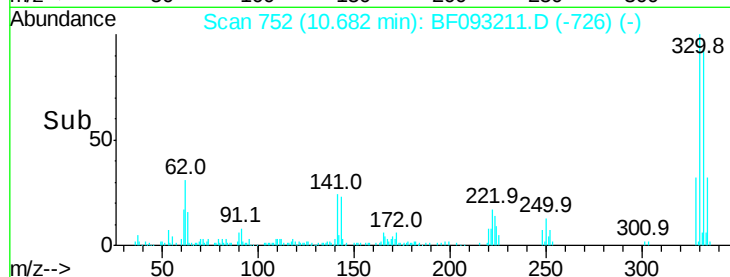
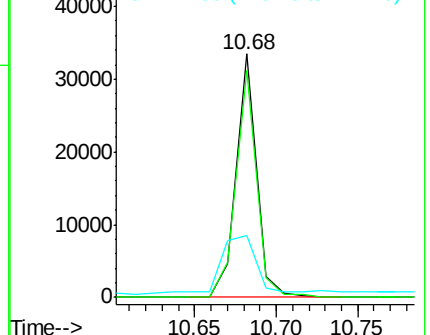
141 42.2 34.1 51.1



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: 17.44 ng

RT: 9.21 min Scan# 623

Delta R.T. -0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

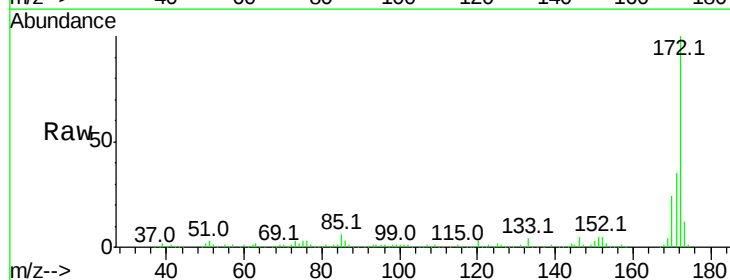
Tgt Ion:172 Resp: 215612

Ion Ratio Lower Upper

172 100

171 34.8 29.4 44.0

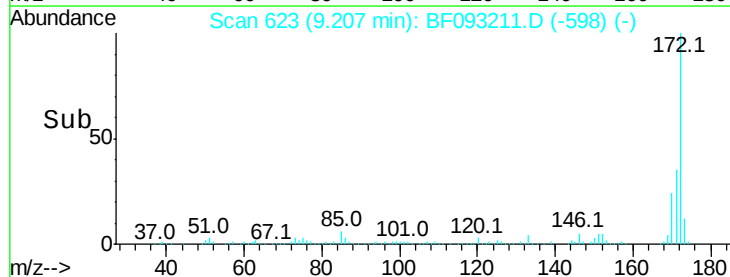
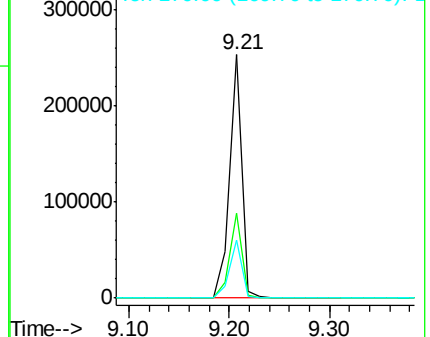
170 23.6 20.2 30.4

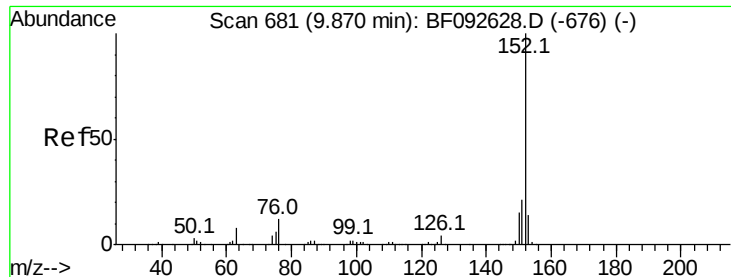


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 4.37 ng

RT: 9.74 min Scan# 670

Delta R.T. -0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

Instrument :

BNA_F

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E2B15-BASE-3

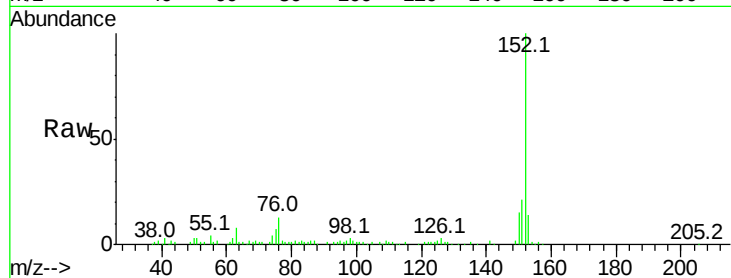
Tot Ion:152 Resp: 95767

Ion Ratio Lower Upper

152 100

151 20.6 16.9 25.3

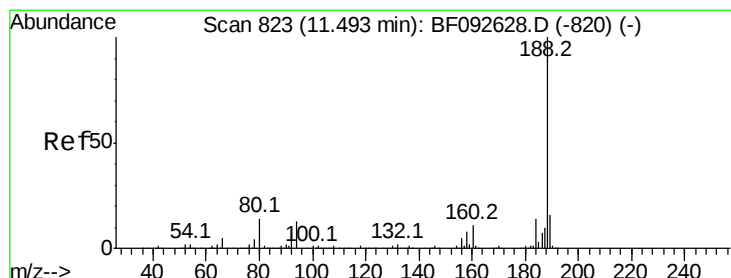
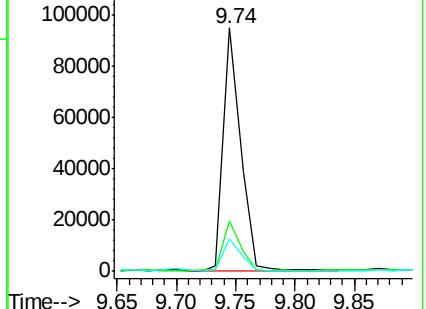
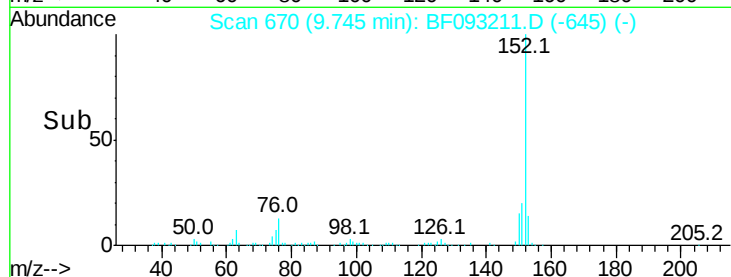
153 13.5 11.4 17.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.37 min Scan# 812

Delta R.T. -0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

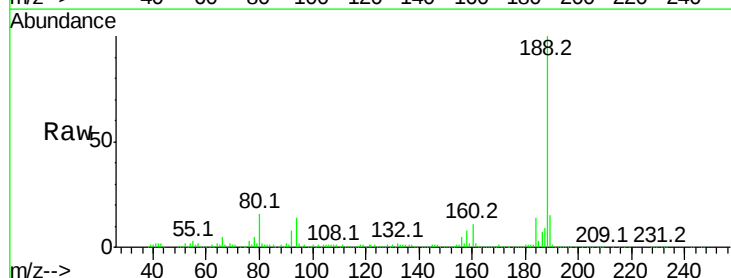
Tgt Ion:188 Resp: 325709

Ion Ratio Lower Upper

188 100

94 14.0 10.0 15.0

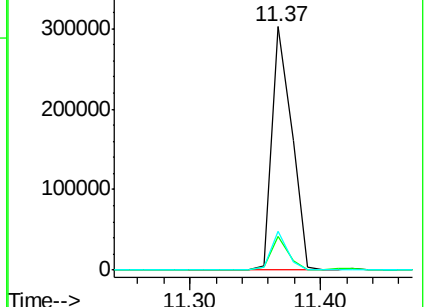
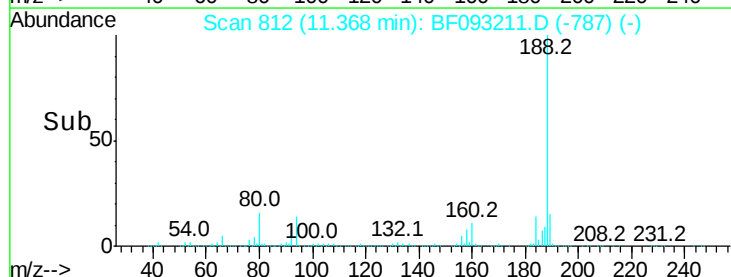
80 15.9 11.2 16.8

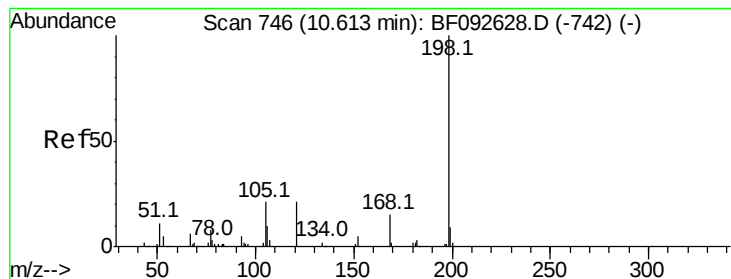


Abundance Ion 188.00 (187.70 to 188.70): E

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: 2.77 ng

RT: 10.72 min Scan# 755

Delta R.T. 0.22 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-3

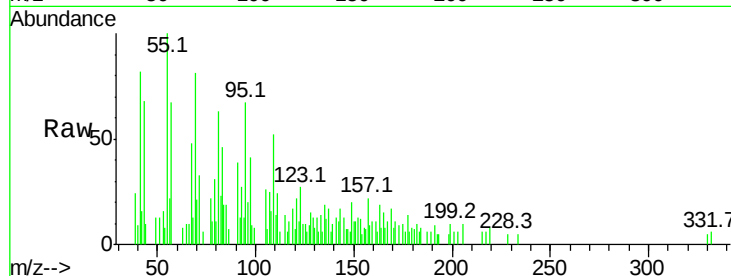
Tot Ion:198 Resp: 212

Ion Ratio Lower Upper

198 100

51 234.3 6.7 46.7#

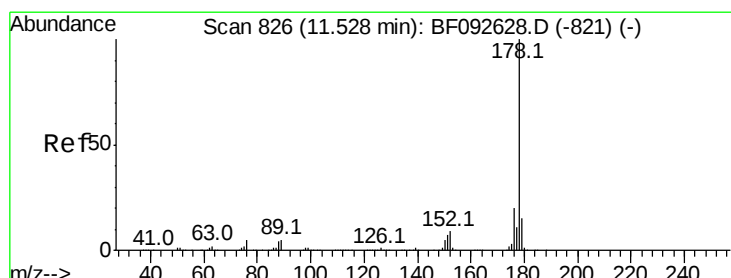
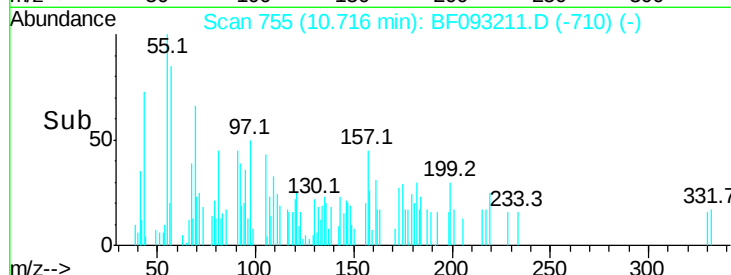
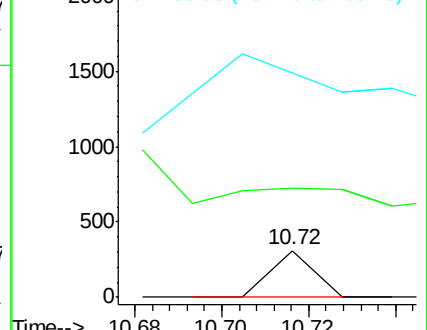
105 482.5 16.6 56.6#



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: 5.22 ng

RT: 11.39 min Scan# 814

Delta R.T. -0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

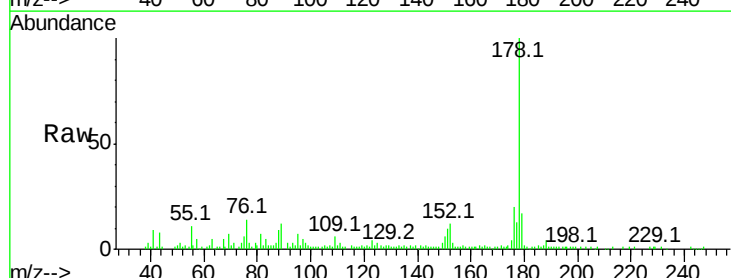
Tgt Ion:178 Resp: 97326

Ion Ratio Lower Upper

178 100

176 19.9 16.6 25.0

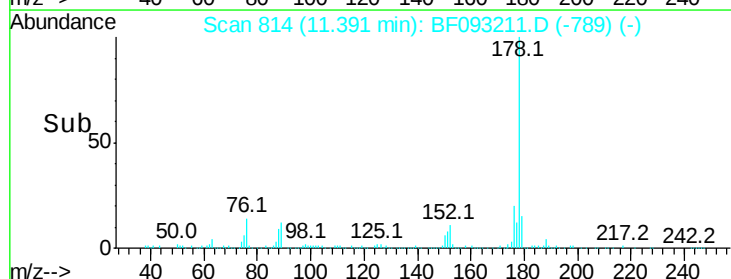
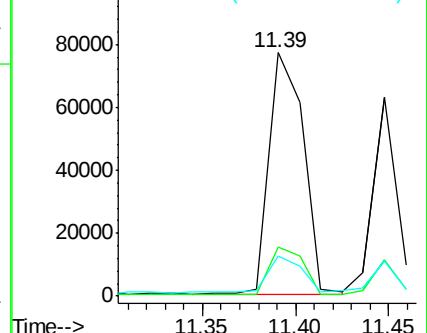
179 16.6 12.8 19.2

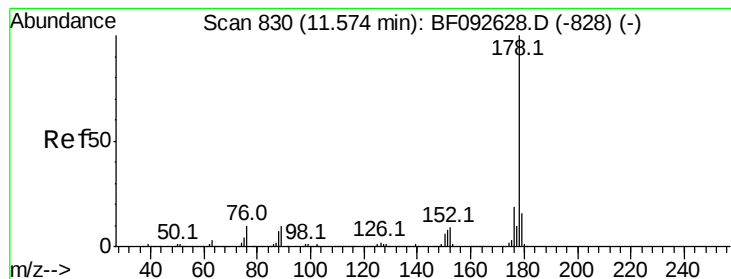


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 2.90 ng

RT: 11.45 min Scan# 819

Delta R.T. -0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-3

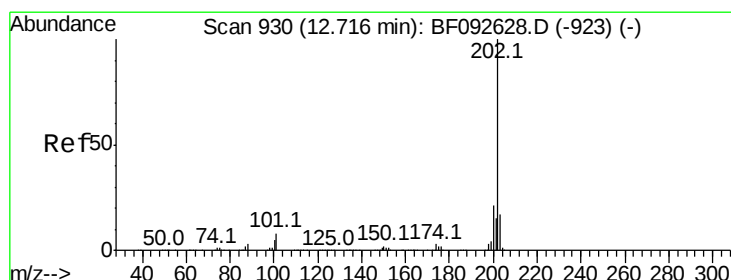
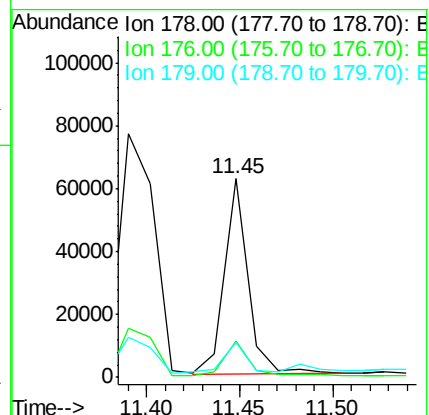
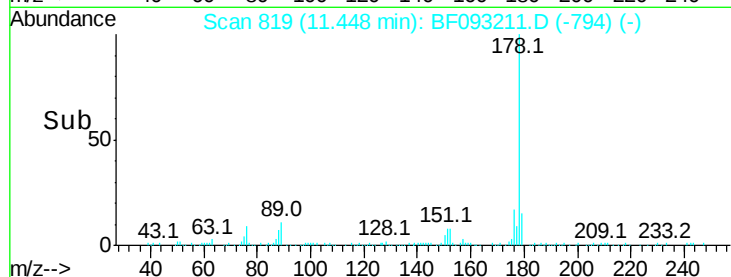
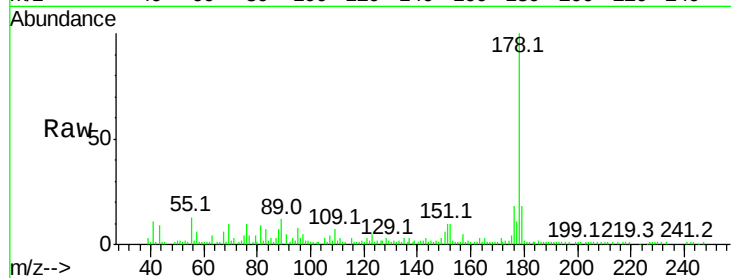
Tot Ion:178 Resp: 54429

Ion Ratio Lower Upper

178 100

176 18.1 15.9 23.9

179 17.8 13.2 19.8



#74

Fluoranthene

Concen: 5.81 ng

RT: 12.58 min Scan# 918

Delta R.T. -0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

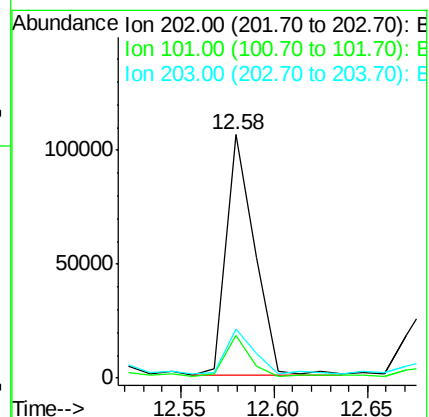
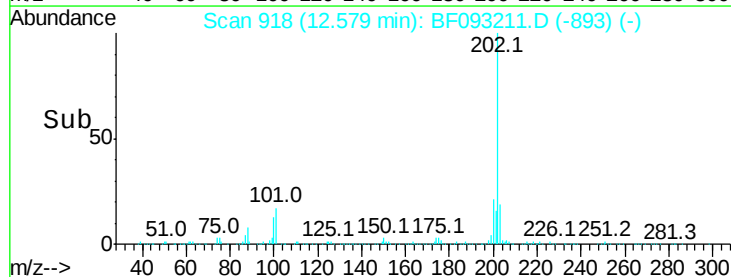
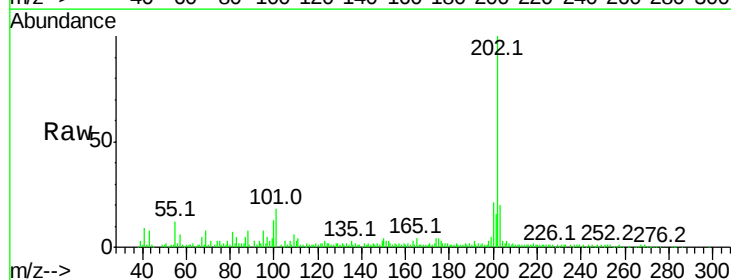
Tgt Ion:202 Resp: 111794

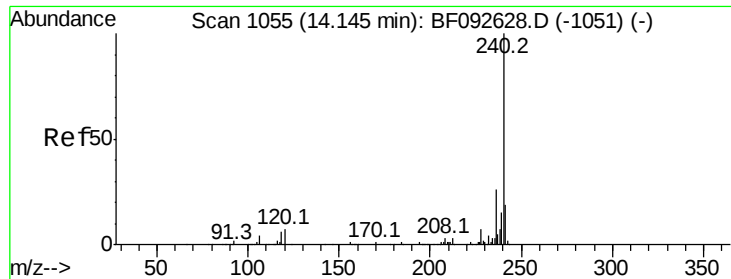
Ion Ratio Lower Upper

202 100

101 17.6 0.0 34.6

203 20.0 0.0 38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.01 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-3

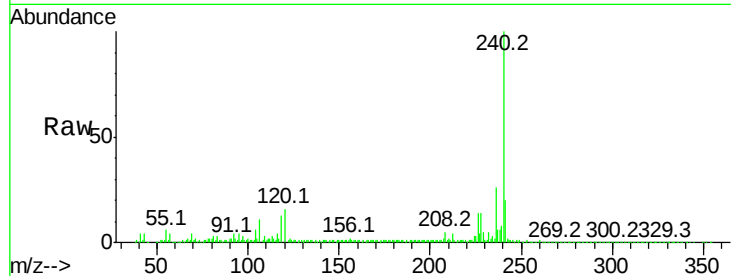
Tot Ion:240 Resp: 336527

Ion Ratio Lower Upper

240 100

120 15.6 12.9 19.3

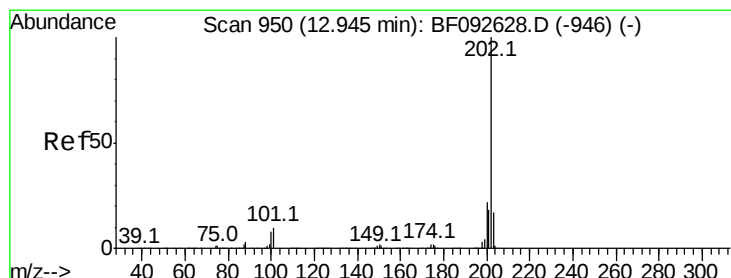
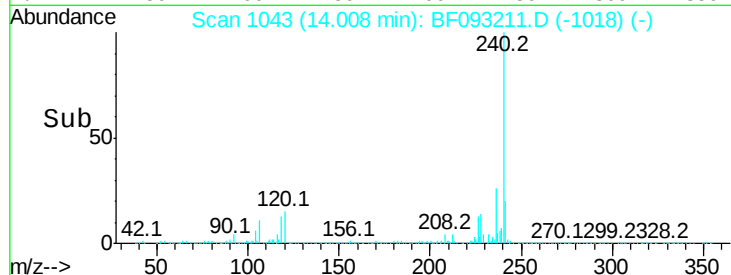
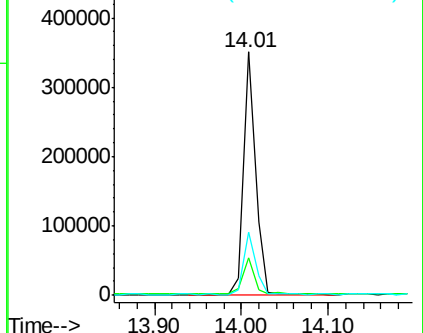
236 25.9 20.9 31.3



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: 9.77 ng

RT: 12.81 min Scan# 938

Delta R.T. -0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

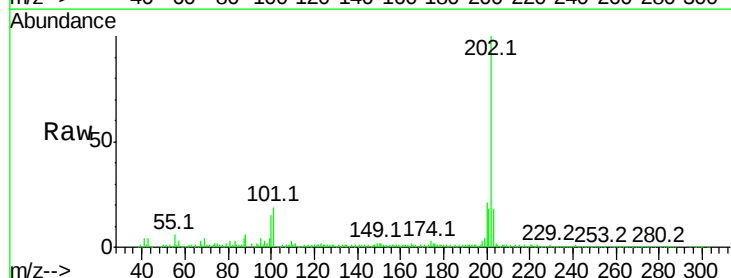
Tgt Ion:202 Resp: 245986

Ion Ratio Lower Upper

202 100

200 20.8 17.7 26.5

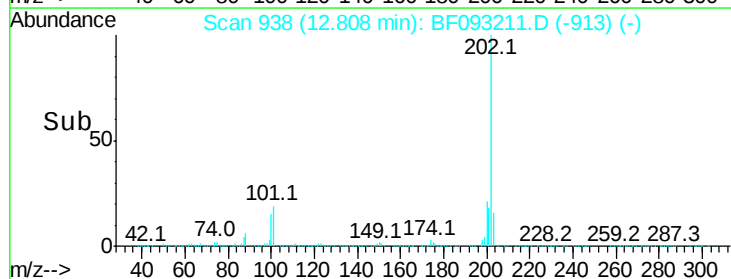
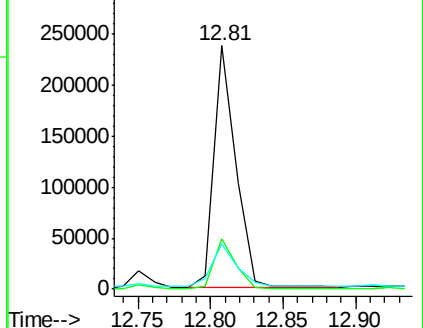
203 18.4 14.7 22.1

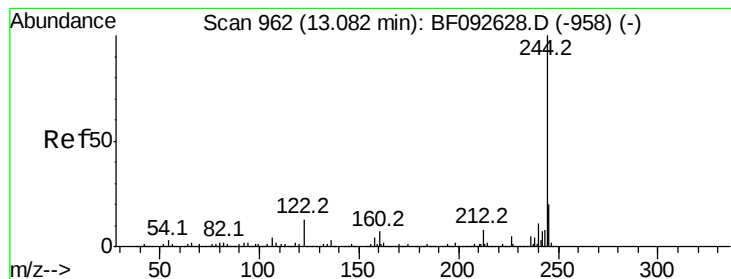


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 8.61 ng

RT: 12.96 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-3

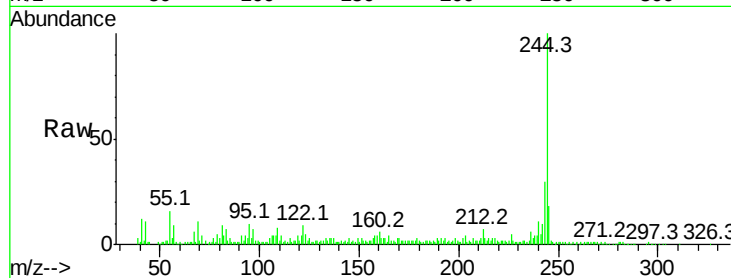
Tot Ion:244 Resp: 123385

Ion Ratio Lower Upper

244 100

212 7.4 6.2 9.2

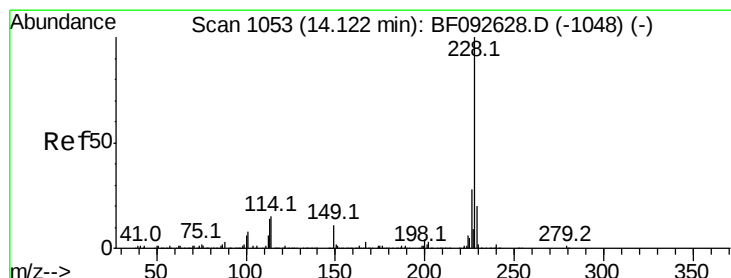
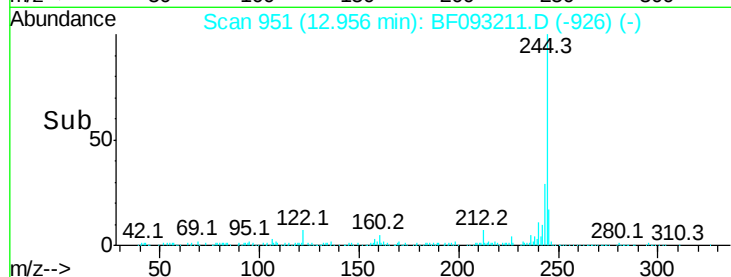
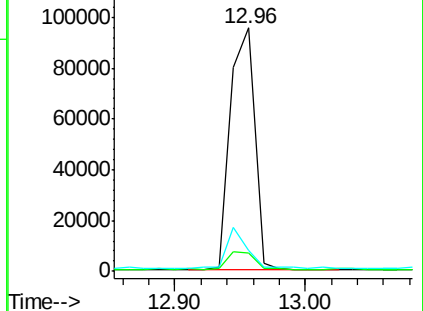
122 8.6 11.4 17.2#



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: 11.49 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

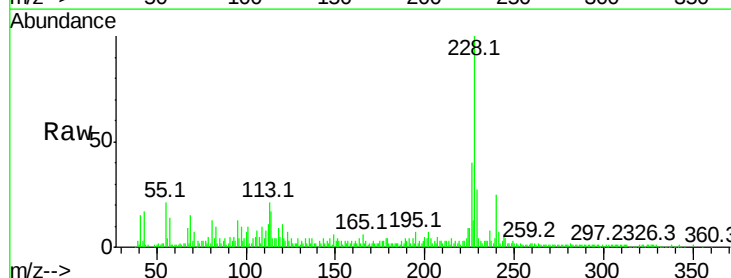
Tgt Ion:228 Resp: 236549

Ion Ratio Lower Upper

228 100

226 40.0 22.4 33.6#

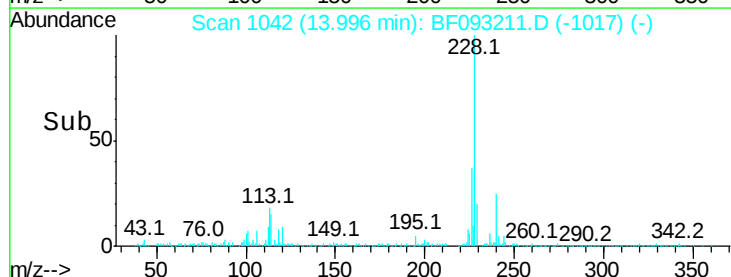
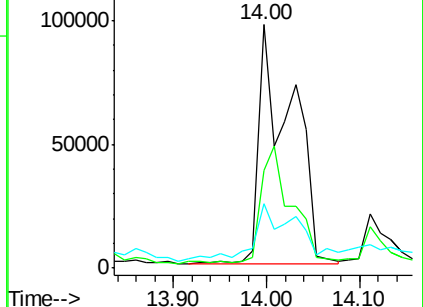
229 26.6 16.2 24.4#

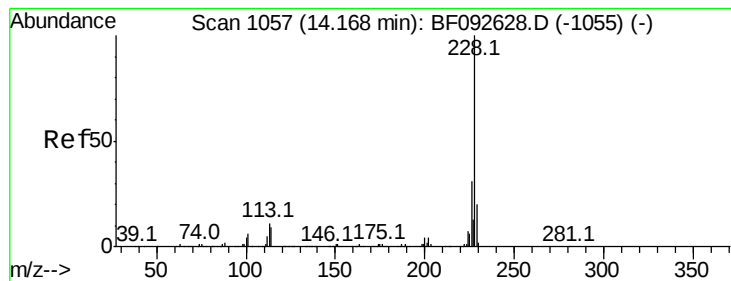


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 12.27 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.05 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-3

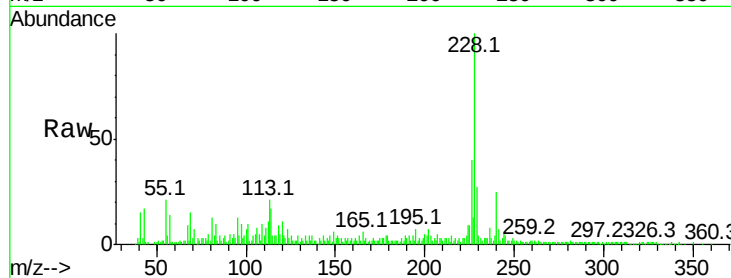
Tot Ion:228 Resp: 236549

Ion Ratio Lower Upper

228 100

226 40.0 25.4 38.0#

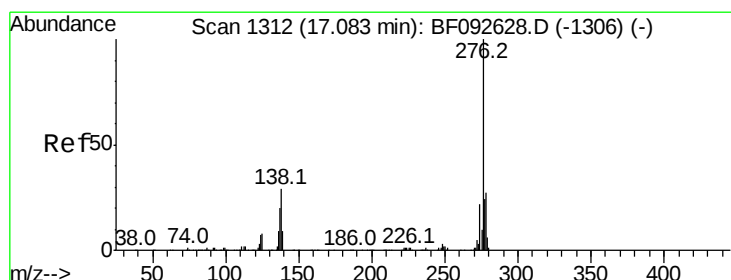
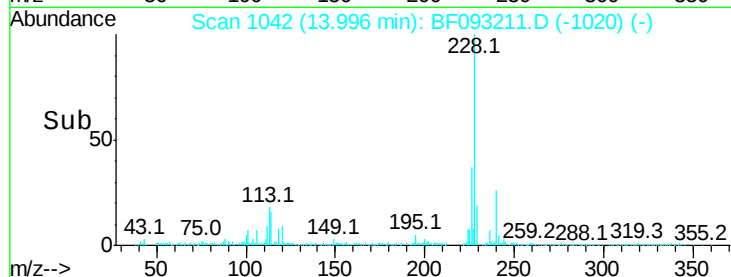
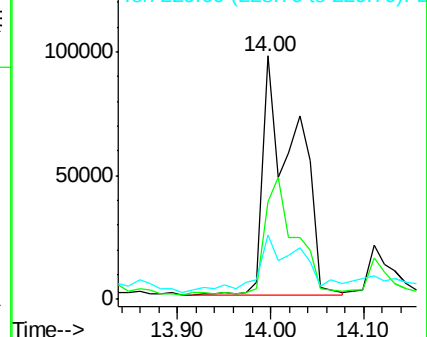
229 26.6 16.2 24.2#



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: 9.30 ng

RT: 16.87 min Scan# 1293

Delta R.T. 0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

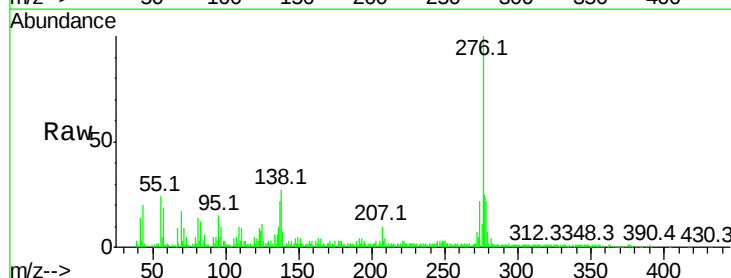
Tgt Ion:276 Resp: 138845

Ion Ratio Lower Upper

276 100

138 27.4 21.8 32.6

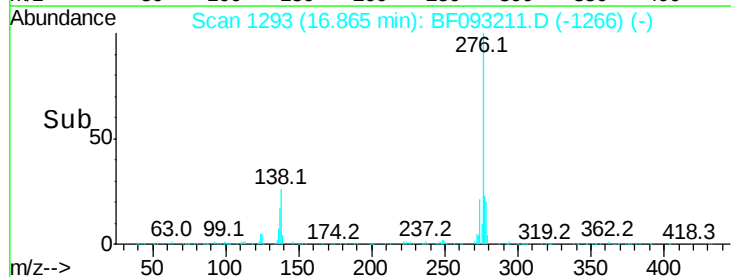
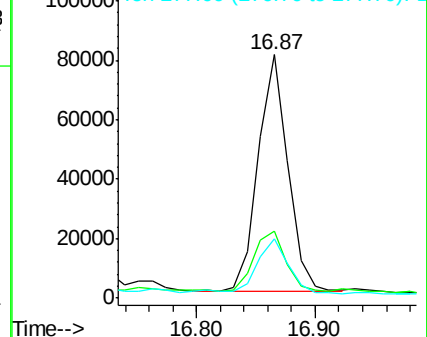
277 27.9 20.2 30.4

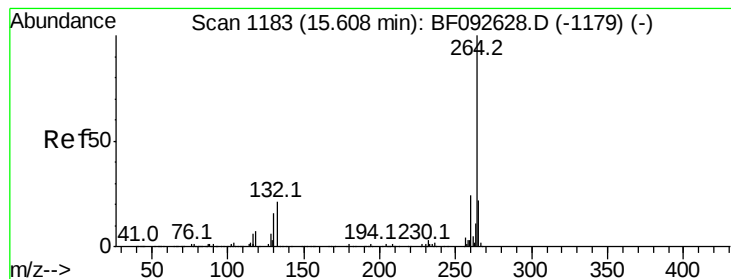


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.45 min Scan# 1169

Delta R.T. -0.00 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-3

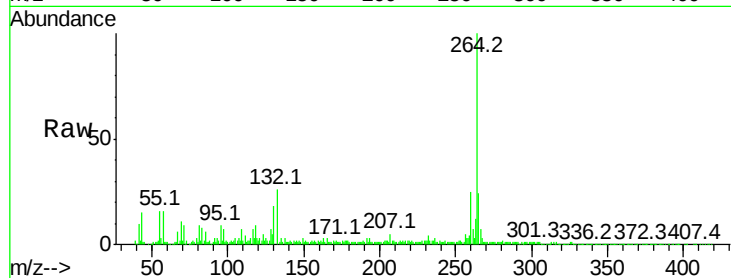
Tot Ion:264 Resp: 268475

Ion Ratio Lower Upper

264 100

260 24.5 19.2 28.8

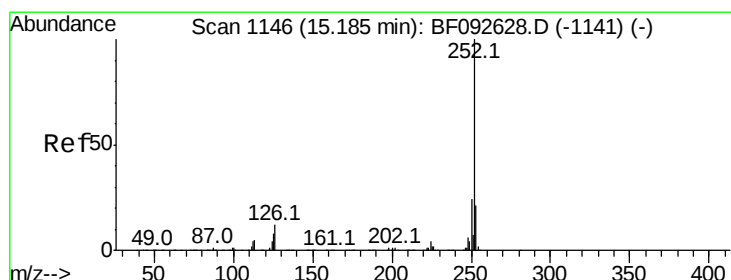
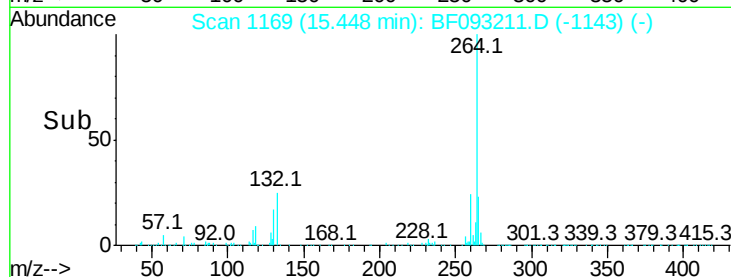
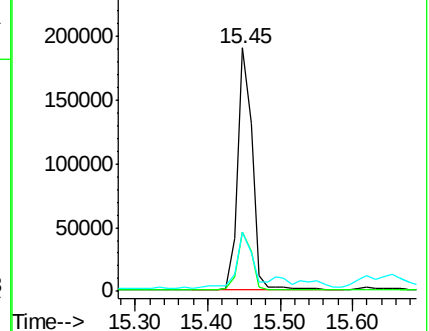
265 24.3 17.4 26.0



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: 14.99 ng

RT: 15.04 min Scan# 1133

Delta R.T. -0.00 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

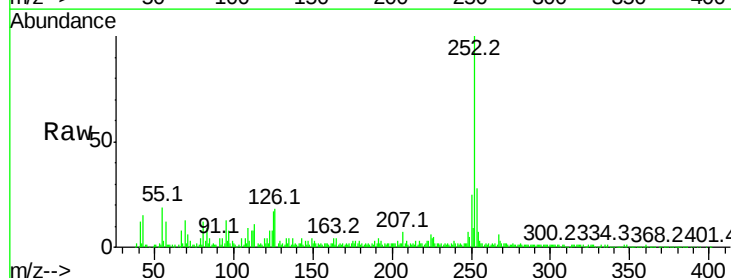
Tgt Ion:252 Resp: 264820

Ion Ratio Lower Upper

252 100

253 27.8 18.2 27.4#

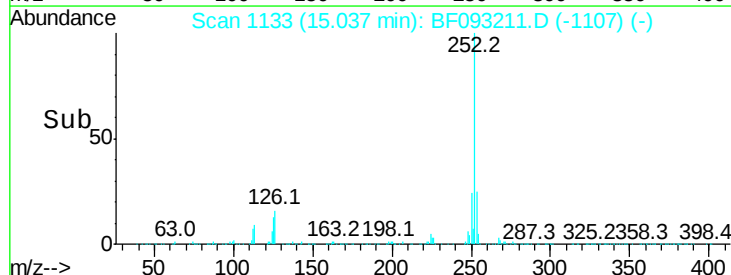
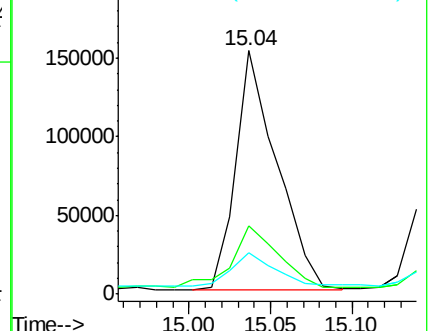
125 16.8 9.8 14.6#

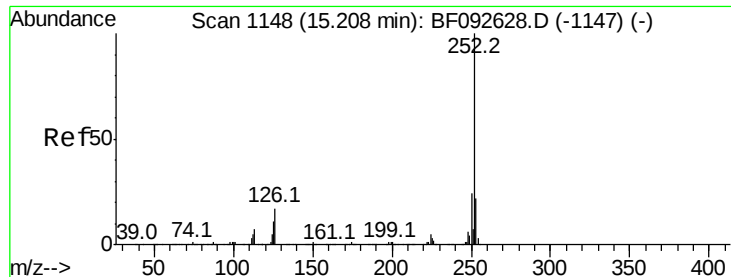


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

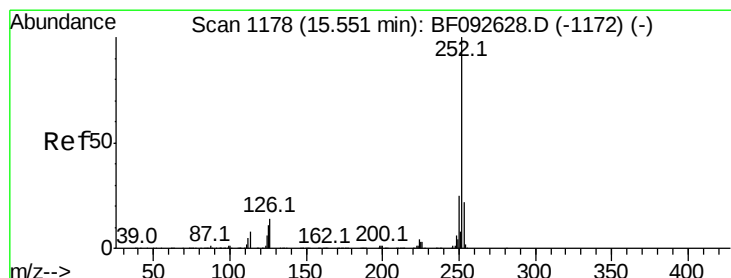
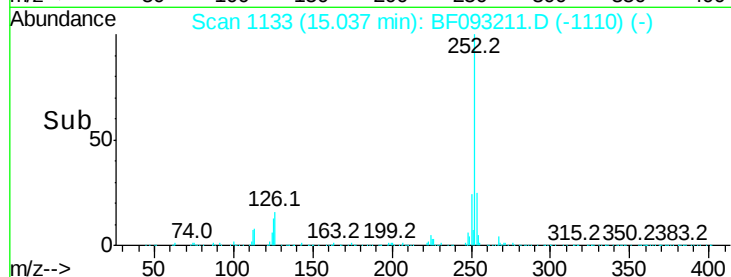
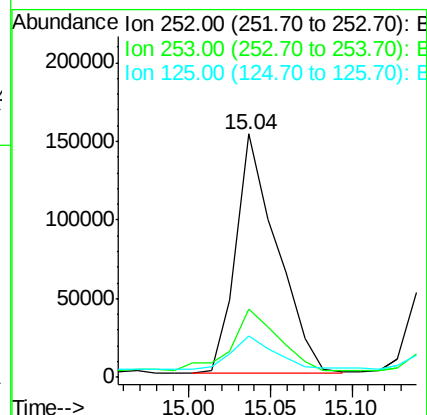
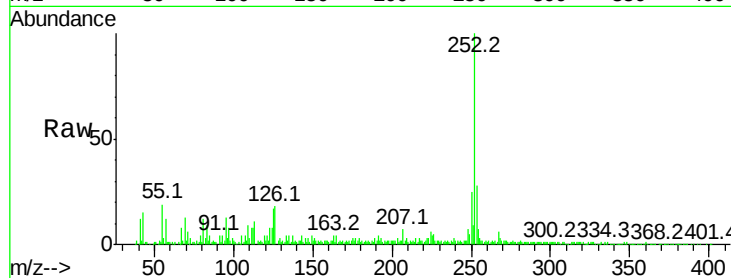




#88
Benzo(k)fluoranthene
Concen: 17.36 ng
RT: 15.04 min Scan# 1133
Delta R.T. -0.03 min
Lab File: BF093211.D
Acq: 27 Feb 2017 16:15

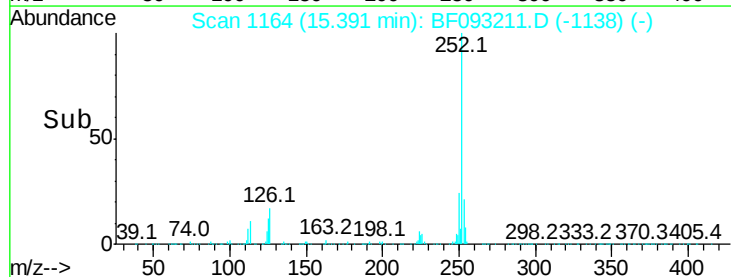
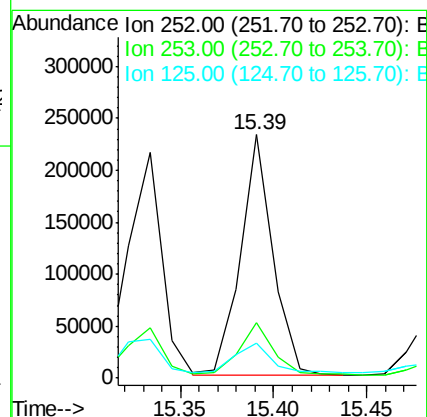
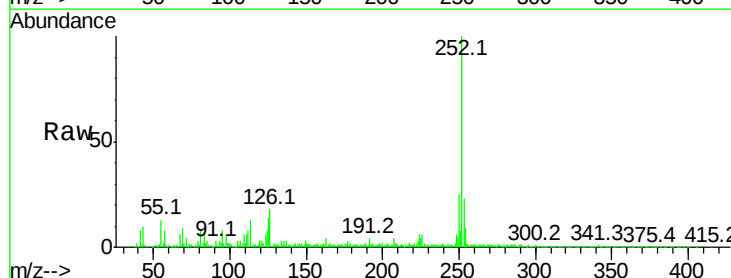
Instrument :
BNA_F
ClientSampleId :
E2B15-BASE-3

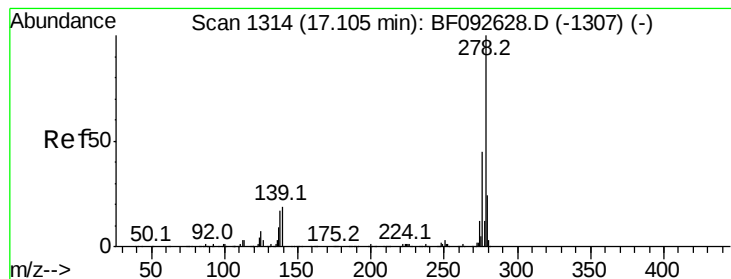
Tot Ion:252 Resp: 264820
Ion Ratio Lower Upper
252 100
253 27.8 18.5 27.7#
125 16.8 8.9 13.3#



#89
Benzo(a)pyrene
Concen: 18.33 ng
RT: 15.39 min Scan# 1164
Delta R.T. -0.00 min
Lab File: BF093211.D
Acq: 27 Feb 2017 16:15

Tgt Ion:252 Resp: 280173
Ion Ratio Lower Upper
252 100
253 23.0 18.2 27.2
125 14.5 10.0 15.0





#90

Dibenzo(a,h)anthracene

Concen: 2.79 ng

RT: 16.87 min Scan# 1293

Delta R.T. -0.00 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-3

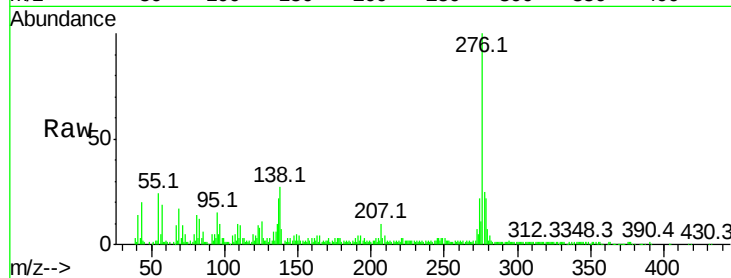
Tot Ion:278 Resp: 34478

Ion Ratio Lower Upper

278 100

139 32.0 14.8 22.2#

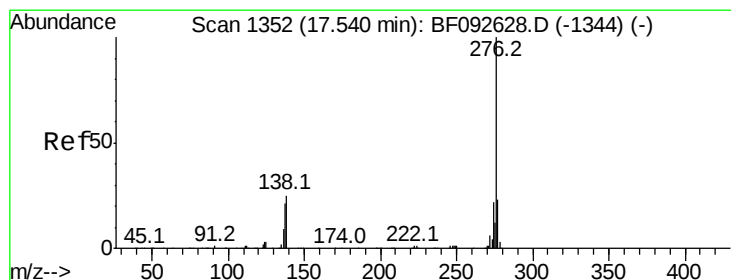
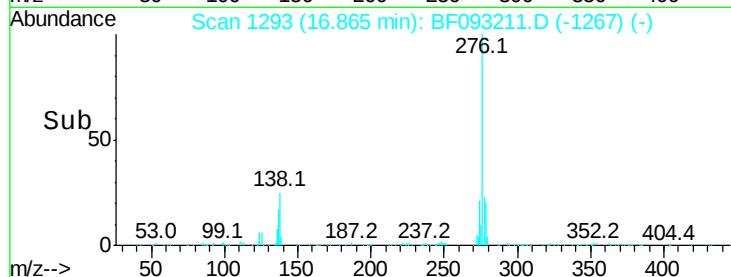
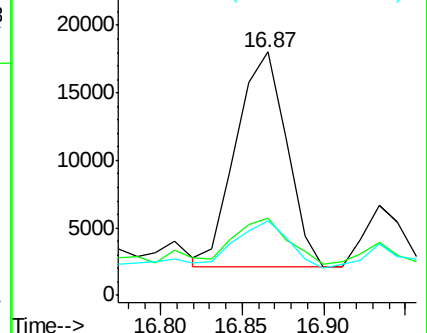
279 30.7 19.8 29.6#



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(g,h,i)perylene

Concen: 18.51 ng

RT: 17.30 min Scan# 1331

Delta R.T. 0.01 min

Lab File: BF093211.D

Acq: 27 Feb 2017 16:15

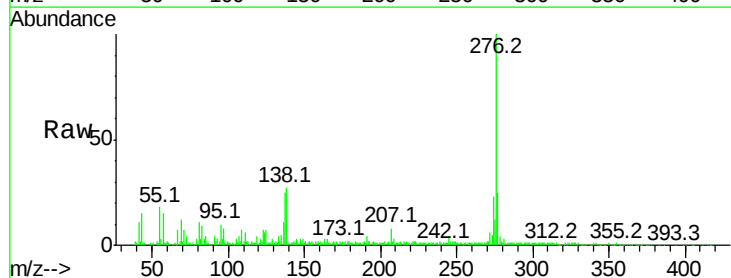
Tgt Ion:276 Resp: 230958

Ion Ratio Lower Upper

276 100

277 25.2 19.2 28.8

138 26.6 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

