

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030217\
 Data File : BF093351.D
 Acq On : 3 Mar 2017 9:43
 Operator : SJ/MA
 Sample : I2057-11
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 30B-4

Quant Time: Mar 03 11:51:55 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	6.80	152	153420	20.00	ng	-0.06
21) Naphthalene-d8	8.09	136	634257	20.00	ng	-0.06
38) Acenaphthene-d10	9.85	164	299880	20.00	ng	-0.05
63) Phenanthrene-d10	11.33	188	562627	20.00	ng	-0.05
75) Chrysene-d12	13.97	240	522928	20.00	ng	-0.05
86) Perylene-d12	15.39	264	372896	20.00	ng	-0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	880403	98.45	ng	-0.07
7) Phenol-d6	6.44	99	1232637	107.13	ng	-0.05
23) Nitrobenzene-d5	7.37	82	796732	69.95	ng	-0.06
41) 2,4,6-Tribromophenol	10.65	330	245044	112.98	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	1282589	77.49	ng	-0.05
78) Terphenyl-d14	12.92	244	1147007	51.54	ng	-0.05

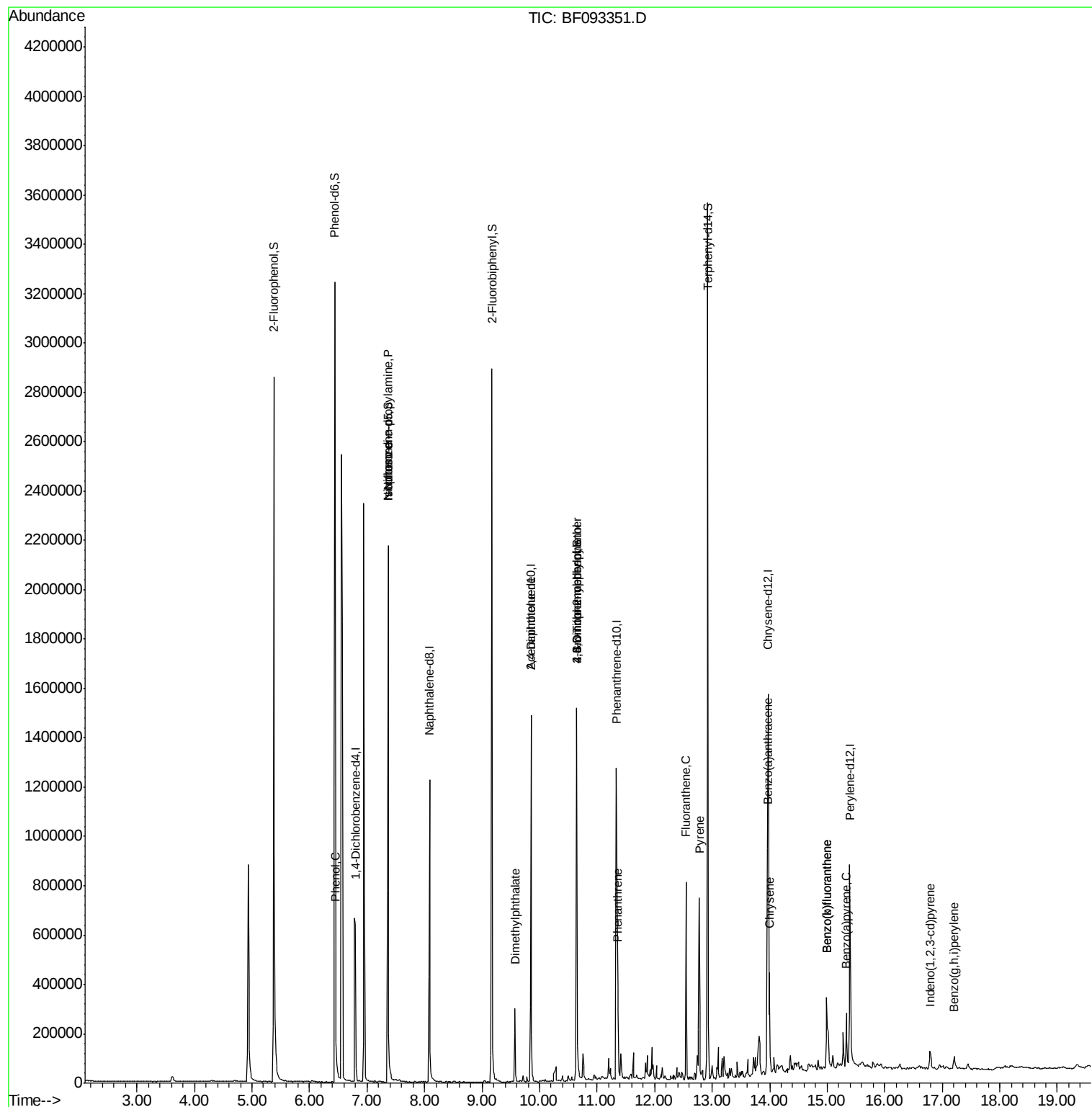
Target Compounds						Qvalue
10) Phenol	6.45	94	60355	4.48	ng	# 76
19) n-Nitroso-di-n-propylamine	7.37	70	102327	13.97	ng	# 80
25) Isophorone	7.37	82	617779	29.11	ng	# 65
49) Dimethylphthalate	9.57	163	172911	8.56	ng	100
56) 2,4-Dinitrotoluene	9.85	165	38465	6.62	ng	# 20
64) 4,6-Dinitro-2-methylphenol	10.65	198	555	2.82	ng	# 1
66) 4-Bromophenyl-phenylether	10.65	248	18138	3.09	ng	# 1
70) Phenanthrene	11.36	178	176306	5.47	ng	98
74) Fluoranthene	12.55	202	378140	11.37	ng	97
77) Pyrene	12.77	202	317998	8.13	ng	100
80) Benzo(a)anthracene	13.96	228	194454	6.08	ng	99
82) Chrysene	14.00	228	123211	4.11	ng	98
85) Indeno(1,2,3-cd)pyrene	16.79	276	48918	2.11	ng	95
87) Benzo(b)fluoranthene	14.99	252	204705	8.34	ng	96
88) Benzo(k)fluoranthene	14.99	252	204705	9.66	ng	95
89) Benzo(a)pyrene	15.33	252	96674	4.55	ng	97
91) Benzo(a,h,i)perylene	17.21	276	41508	2.39	ng	# 89

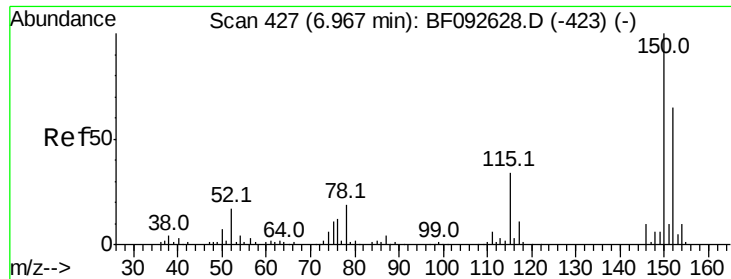
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 412

Delta R.T. -0.06 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

Instrument :

BNA_F

ClientSampleId :

30B-4

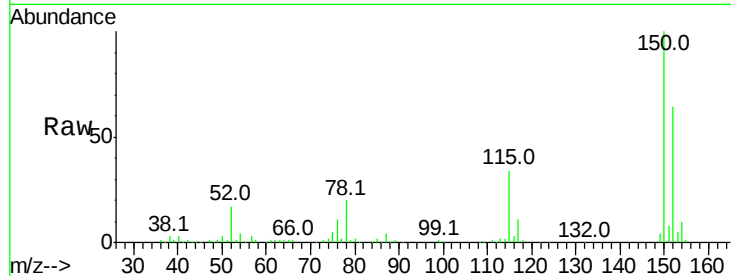
Tot Ion:152 Resp: 153420

Ion Ratio Lower Upper

152 100

150 156.6 124.9 187.3

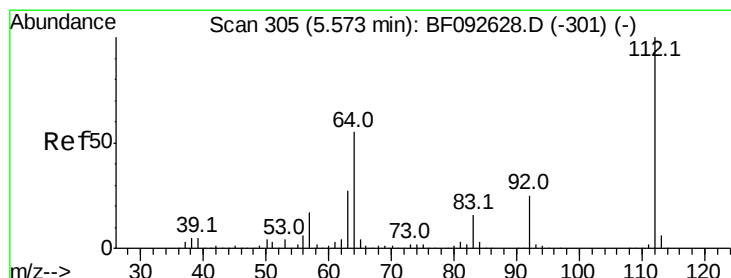
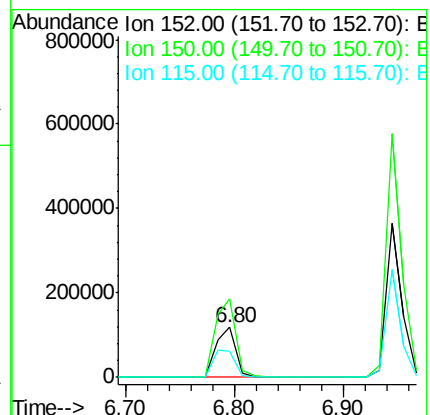
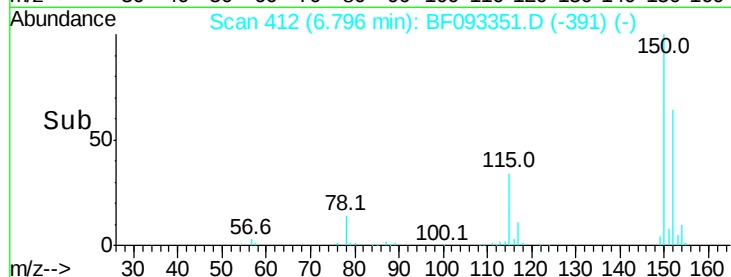
115 53.0 46.0 69.0



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: 98.45 ng

RT: 5.38 min Scan# 288

Delta R.T. -0.07 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

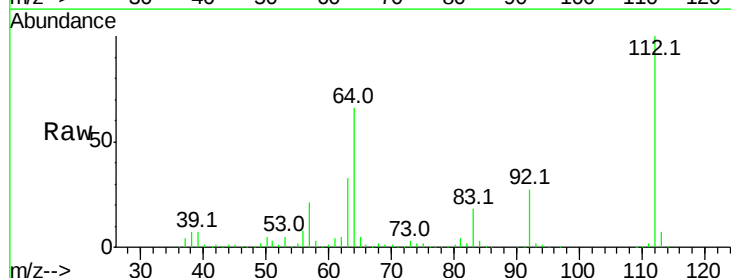
Tgt Ion:112 Resp: 880403

Ion Ratio Lower Upper

112 100

64 66.3 46.1 69.1

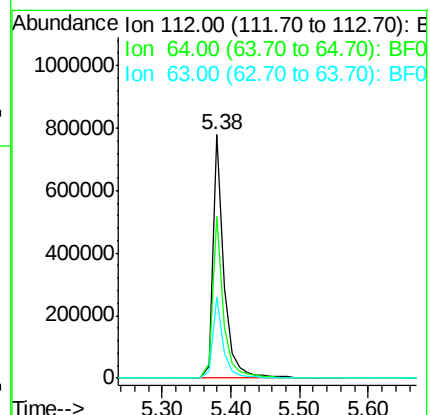
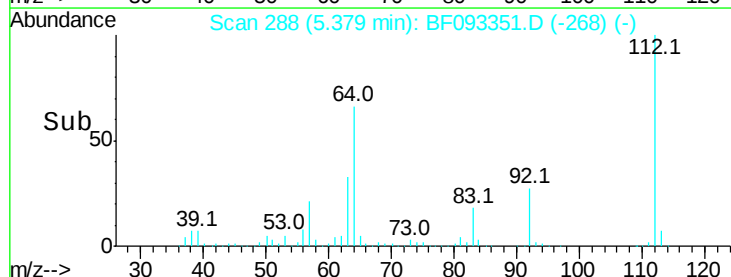
63 33.5 23.8 35.6



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: 107.13 ng

RT: 6.44 min Scan# 381

Delta R.T. -0.05 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

Instrument :

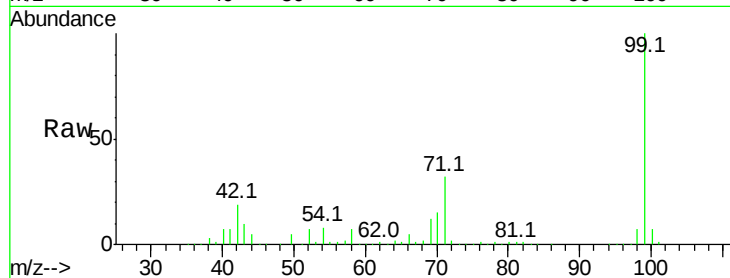
BNA_F

ClientSampleId :

30B-4

Tot Ion: 99 Resp: 1232637

Ion	Ratio	Lower	Upper
99	100		
42	19.3	15.6	23.4
71	31.5	27.5	41.3

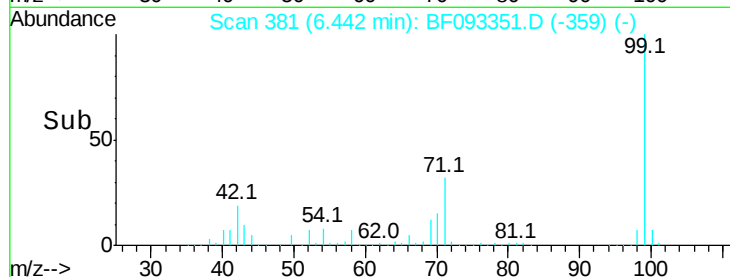


Abundance

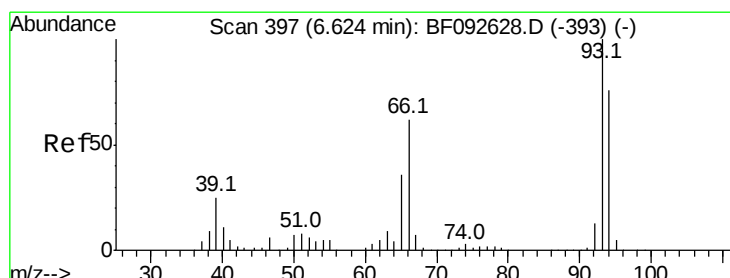
Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



Time-->



#10

Phenol

Concen: 4.48 ng

RT: 6.45 min Scan# 382

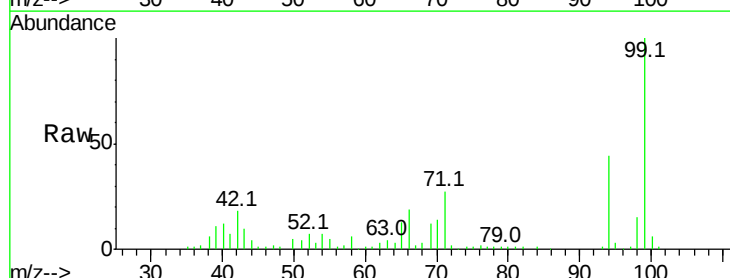
Delta R.T. -0.06 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

Tgt Ion: 94 Resp: 60355

Ion	Ratio	Lower	Upper
94	100		
65	29.6	21.4	61.4
66	42.9	44.0	84.0#

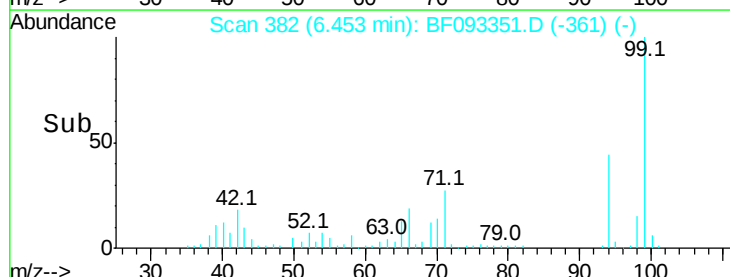


Abundance

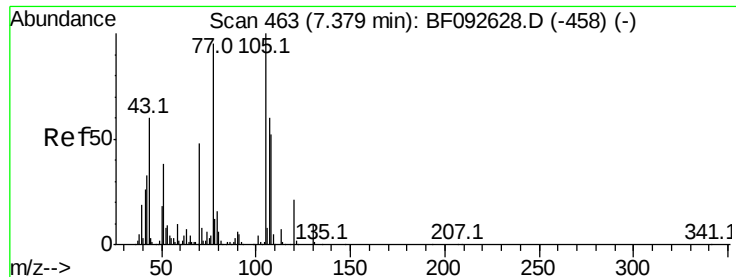
Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0



Time-->



#19

n-Nitroso-di-n-propylamine

Concen: 13.97 ng

RT: 7.37 min Scan# 462

Delta R.T. 0.09 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

Instrument :

BNA_F

ClientSampleId :

30B-4

Tot Ion: 70 Resp: 102327

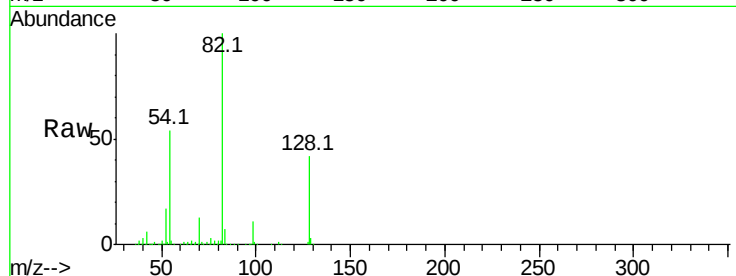
Ion Ratio Lower Upper

70 100

42 50.3 49.4 74.0

101 0.0 7.4 11.2#

130 2.1 14.2 21.4#

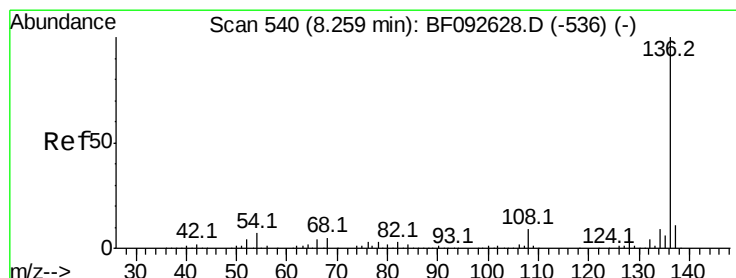
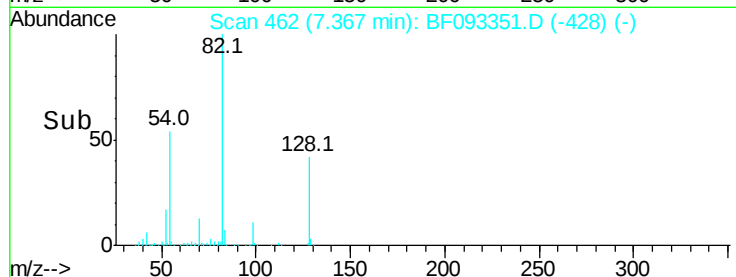
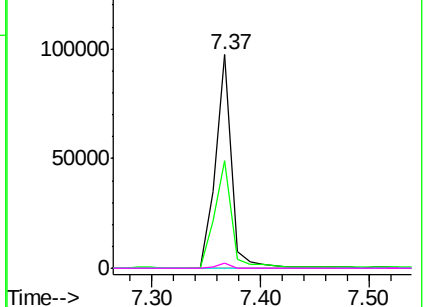


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.09 min Scan# 525

Delta R.T. -0.06 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

Tgt Ion: 136 Resp: 634257

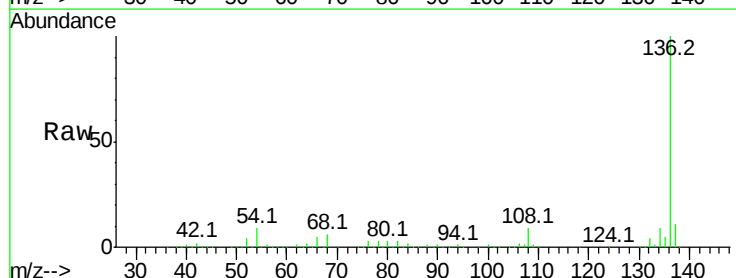
Ion Ratio Lower Upper

136 100

137 10.6 8.4 12.6

54 8.6 4.5 6.7#

68 6.4 3.6 5.4#

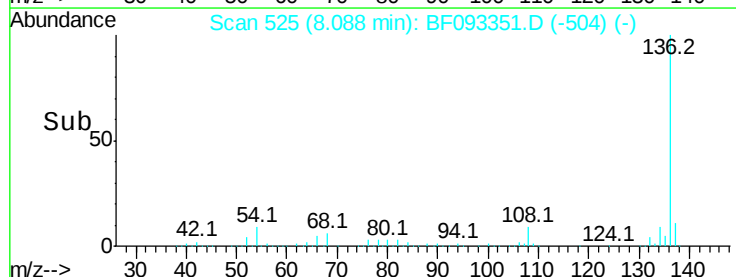
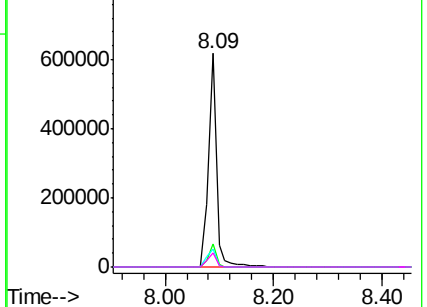


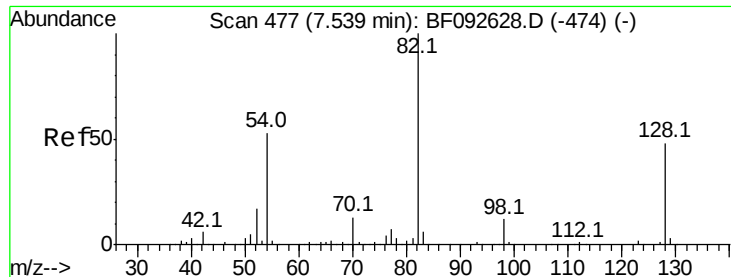
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

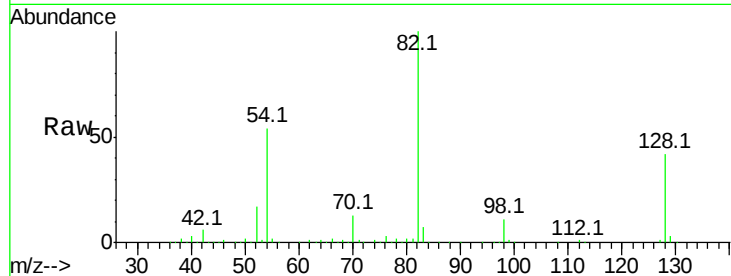




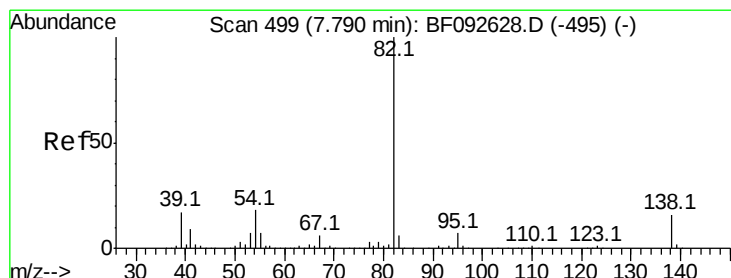
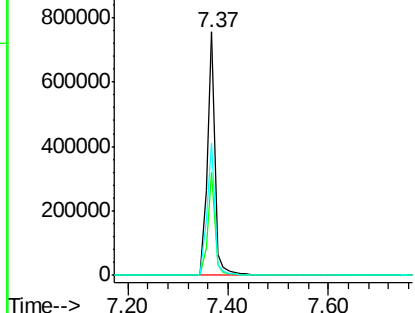
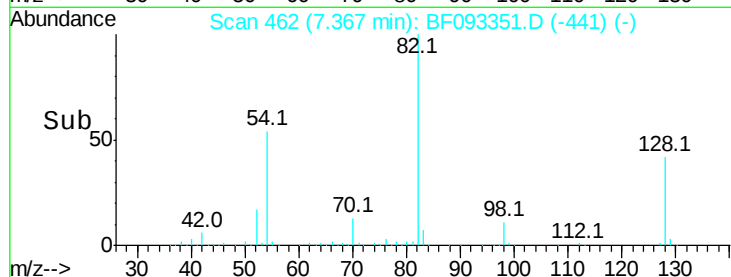
#23
Nitrobenzene-d5
Concen: 69.95 ng
RT: 7.37 min Scan# 462
Delta R.T. -0.06 min
Lab File: BF093351.D
Acq: 3 Mar 2017 9:43

Instrument :
BNA_F
ClientSampleId :
30B-4

Tot Ion: 82 Resp: 796732
Ion Ratio Lower Upper
82 100
128 42.4 34.6 52.0
54 54.1 39.5 59.3

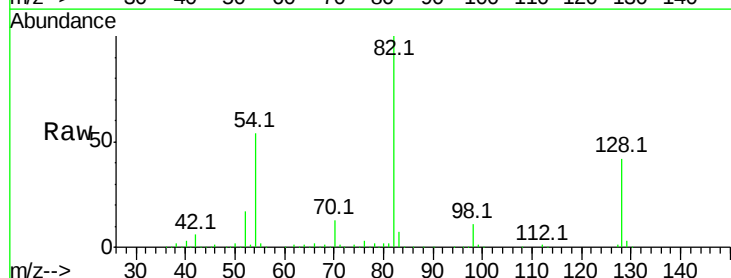


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): BF0
Ion 54.00 (53.70 to 54.70): BF0

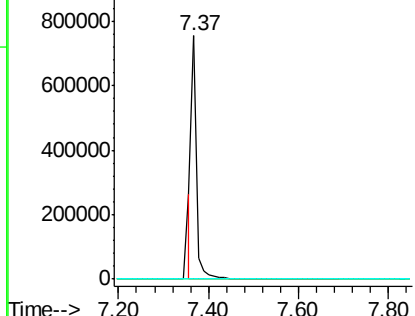
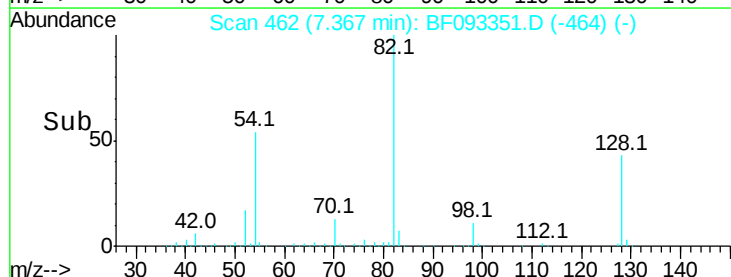


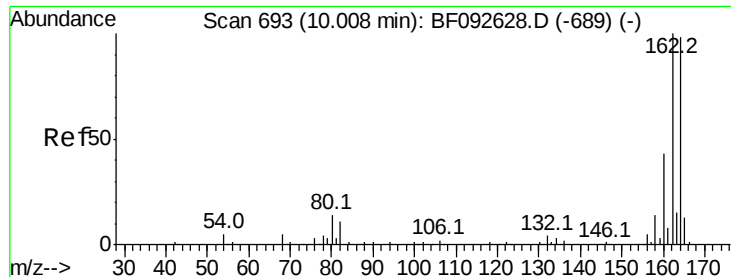
#25
Isophorone
Concen: 29.11 ng
RT: 7.37 min Scan# 462
Delta R.T. -0.32 min
Lab File: BF093351.D
Acq: 3 Mar 2017 9:43

Tgt Ion: 82 Resp: 617779
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): BF0

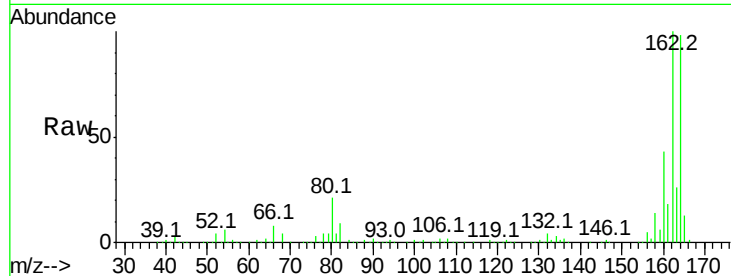




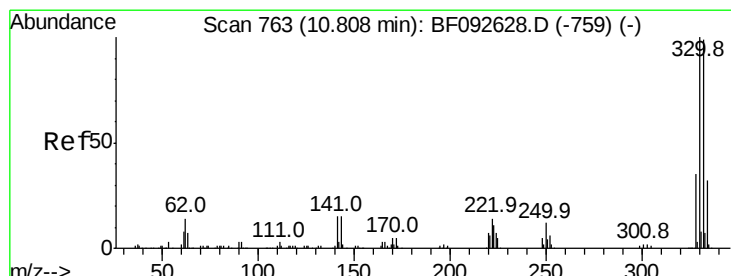
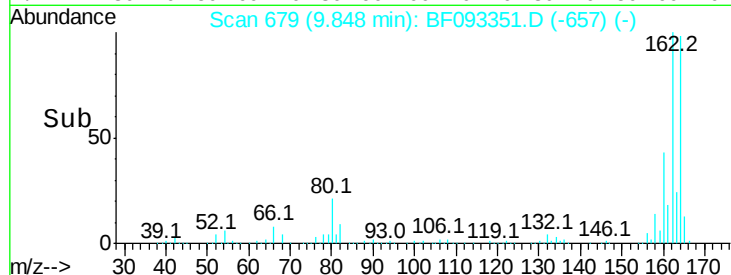
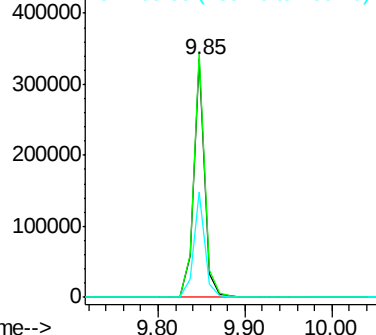
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.85 min Scan# 679
Delta R.T. -0.05 min
Lab File: BF093351.D
Acq: 3 Mar 2017 9:43

Instrument :
BNA_F
ClientSampleId :
30B-4

Tot Ion:164 Resp: 299880
Ion Ratio Lower Upper
164 100
162 102.4 80.2 120.2
160 44.5 36.9 55.3

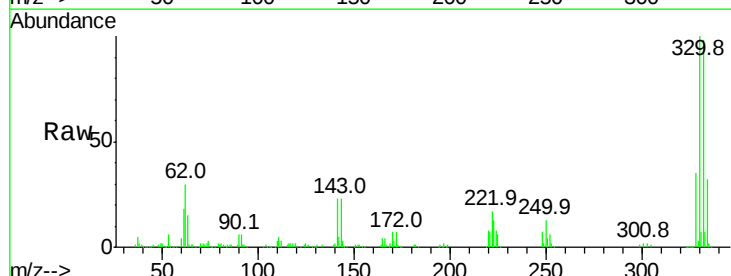


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

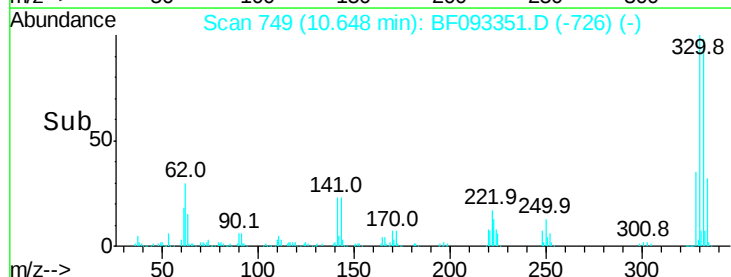
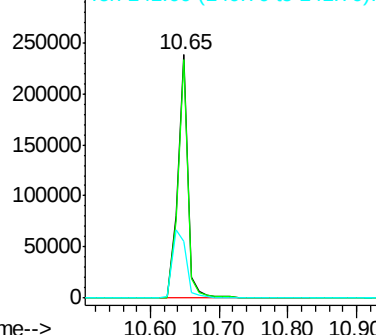


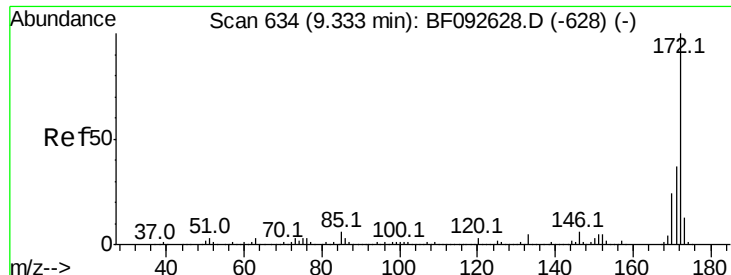
#41
2,4,6-Tribromophenol
Concen: 112.98 ng
RT: 10.65 min Scan# 749
Delta R.T. -0.03 min
Lab File: BF093351.D
Acq: 3 Mar 2017 9:43

Tgt Ion:330 Resp: 245044
Ion Ratio Lower Upper
330 100
332 96.8 77.4 116.2
141 38.4 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



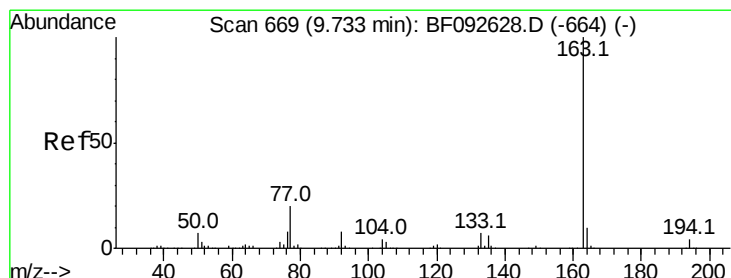
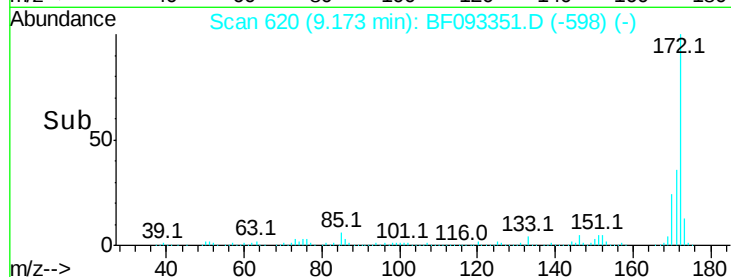
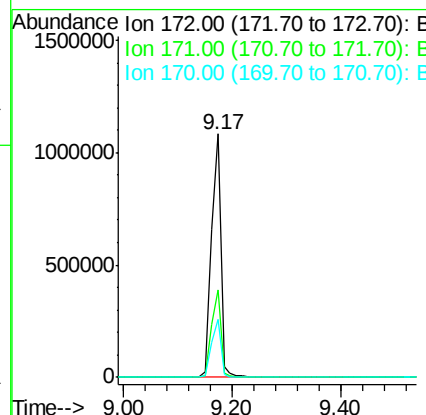
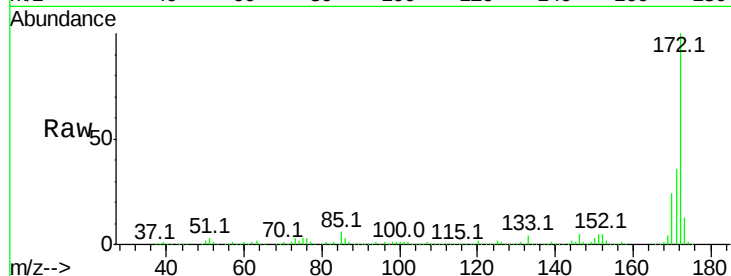


#44
 2-Fluorobiphenyl
 Concen: 77.49 ng
 RT: 9.17 min Scan# 620
 Delta R.T. -0.05 min
 Lab File: BF093351.D
 Acq: 3 Mar 2017 9:43

Instrument :
 BNA_F
 ClientSampleID :
 30B-4

Tot Ion:172 Resp: 1282589

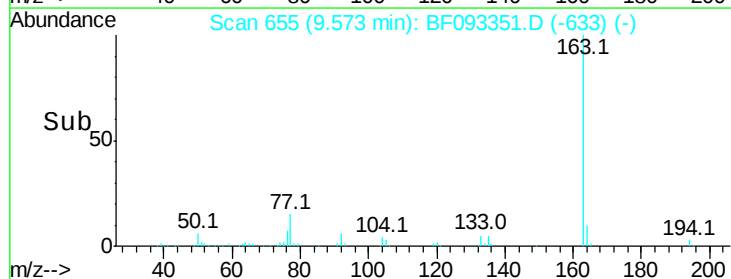
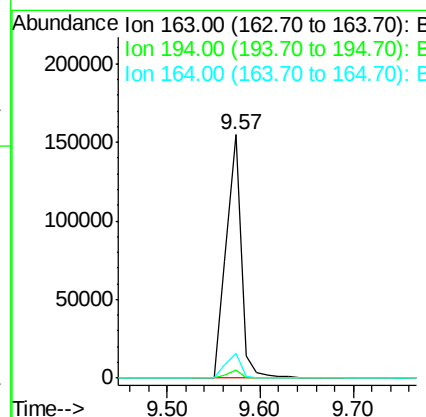
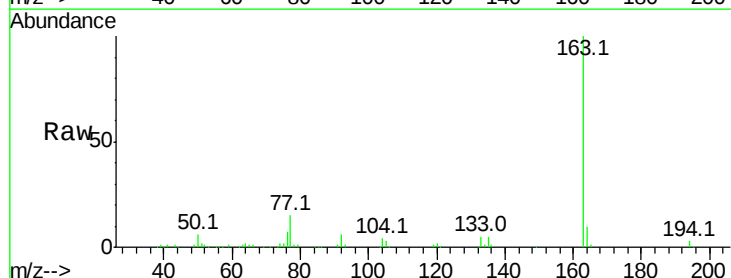
Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.4	44.0
170	24.0	20.2	30.4

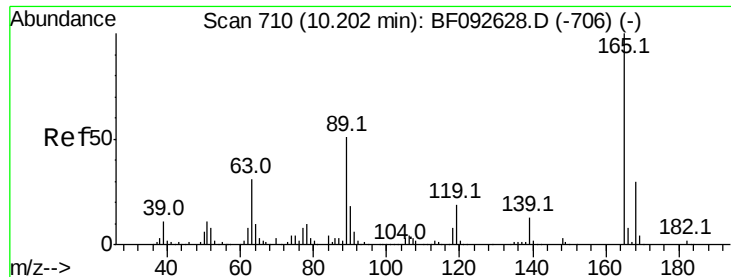


#49
 Dimethylphthalate
 Concen: 8.56 ng
 RT: 9.57 min Scan# 655
 Delta R.T. -0.05 min
 Lab File: BF093351.D
 Acq: 3 Mar 2017 9:43

Tgt Ion:163 Resp: 172911

Ion	Ratio	Lower	Upper
163	100		
194	3.4	3.0	4.4
164	10.0	8.0	12.0





#56

2,4-Dinitrotoluene

Concen: 6.62 ng

RT: 9.85 min Scan# 679

Delta R.T. -0.24 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

Instrument :

BNA_F

ClientSampleId :

30B-4

Tot Ion:165 Resp: 38465

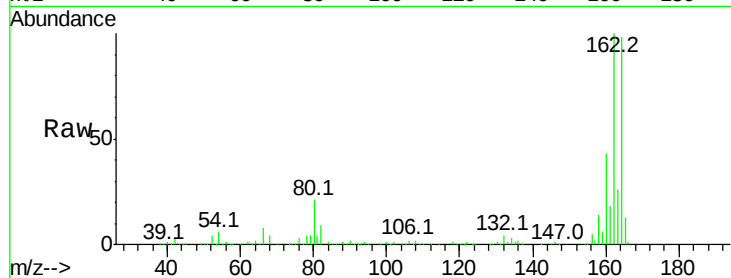
Ion Ratio Lower Upper

165 100

63 1.2 40.2 60.4#

89 1.2 62.5 93.7#

182 0.0 1.8 2.8#

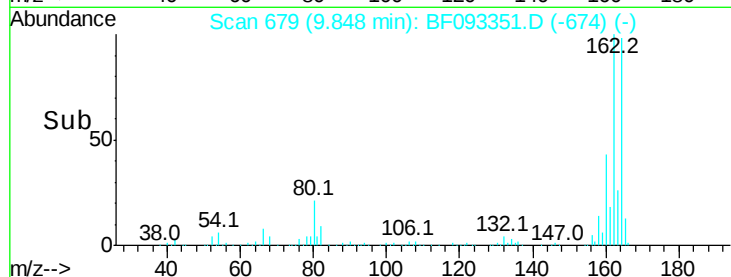


Abundance Ion 165.00 (164.70 to 165.70): E

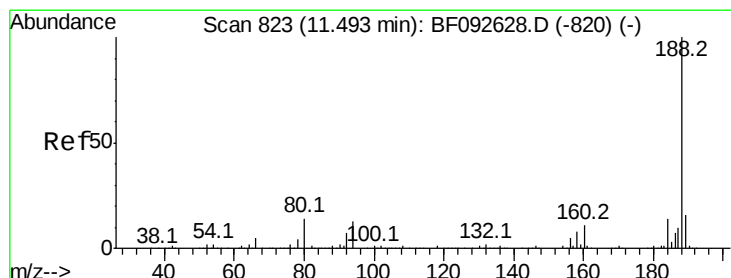
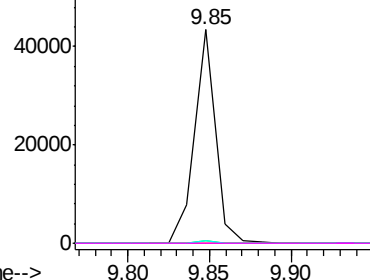
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.33 min Scan# 809

Delta R.T. -0.05 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

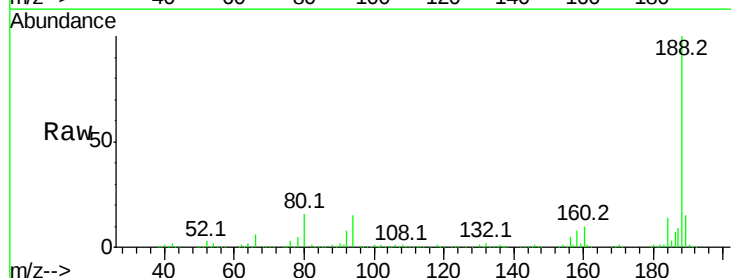
Tgt Ion:188 Resp: 562627

Ion Ratio Lower Upper

188 100

94 14.6 10.0 15.0

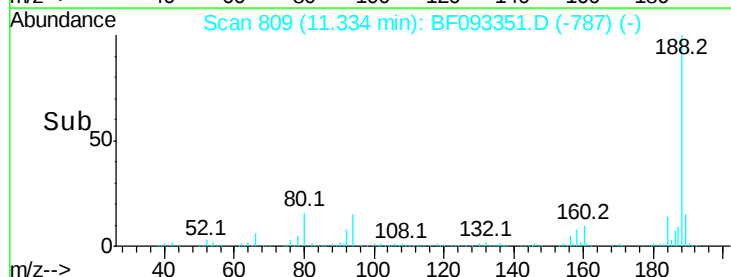
80 16.4 11.2 16.8



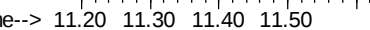
Abundance Ion 188.00 (187.70 to 188.70): E

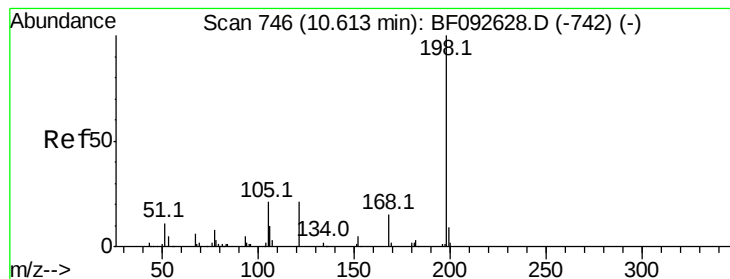
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



Time-->





#64

4,6-Dinitro-2-methylphenol

Concen: 2.82 ng

RT: 10.65 min Scan# 749

Delta R.T. 0.15 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

Instrument :

BNA_F

ClientSampleId :

30B-4

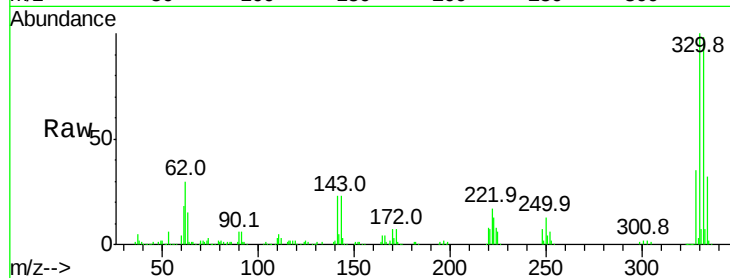
Tot Ion:198 Resp: 555

Ion Ratio Lower Upper

198 100

51 226.7 6.7 46.7#

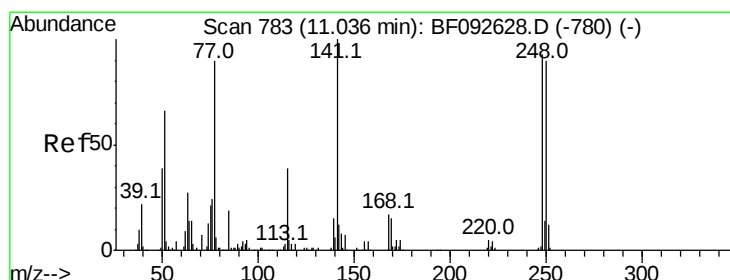
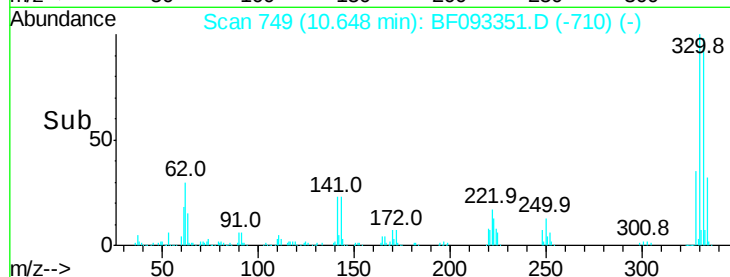
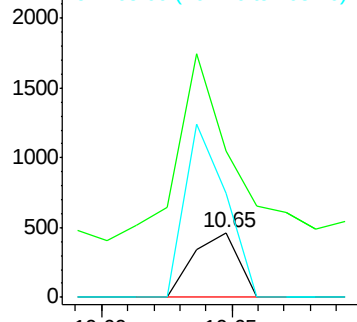
105 160.8 16.6 56.6#



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



#66

4-Bromophenyl-phenylether

Concen: 3.09 ng

RT: 10.65 min Scan# 749

Delta R.T. -0.27 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

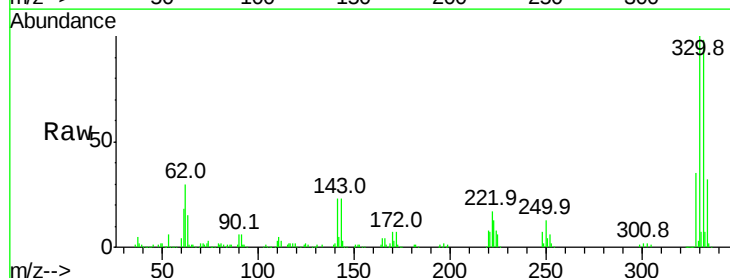
Tgt Ion:248 Resp: 18138

Ion Ratio Lower Upper

248 100

250 196.3 76.9 115.3#

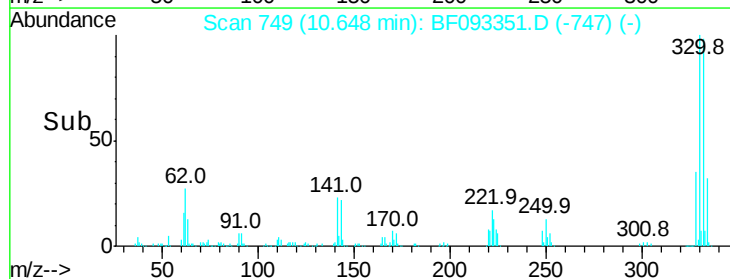
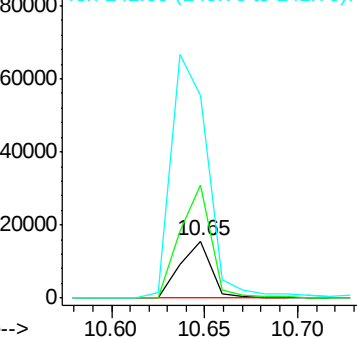
141 353.8 68.2 102.4#

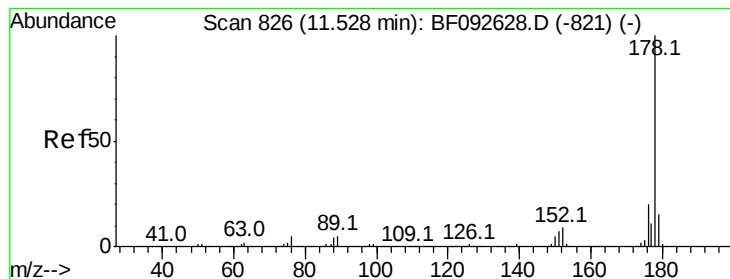


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 5.47 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.05 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

Instrument :

BNA_F

ClientSampleId :

30B-4

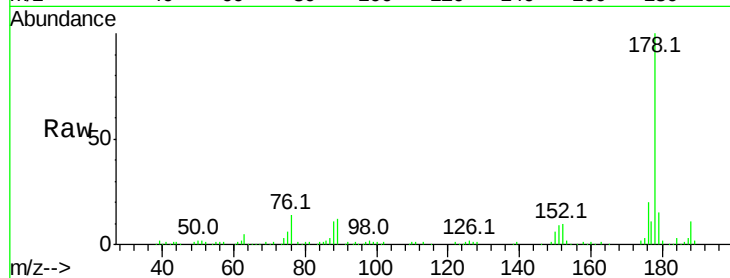
Tot Ion:178 Resp: 176306

Ion Ratio Lower Upper

178 100

176 20.0 16.6 25.0

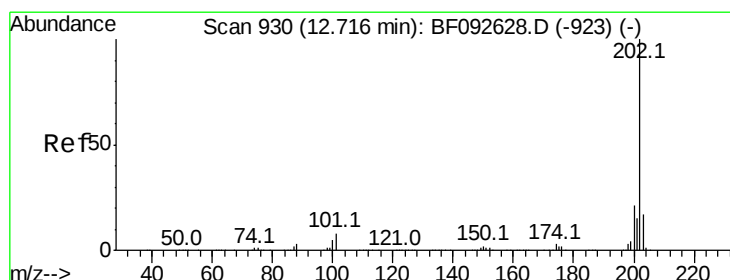
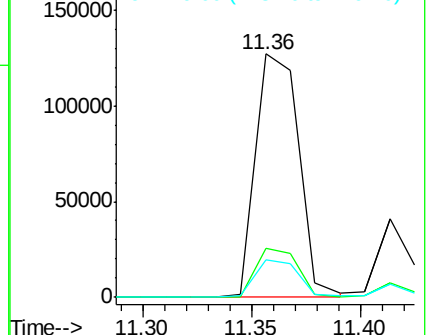
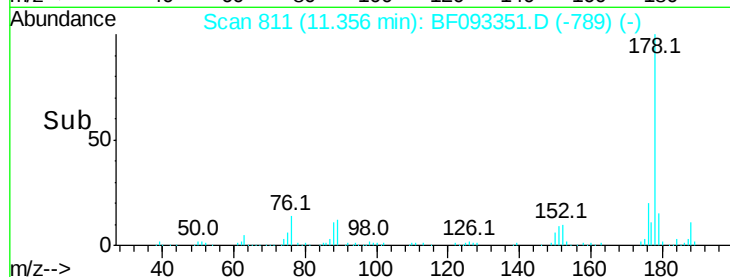
179 15.3 12.8 19.2



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



#74

Fluoranthene

Concen: 11.37 ng

RT: 12.55 min Scan# 915

Delta R.T. -0.05 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

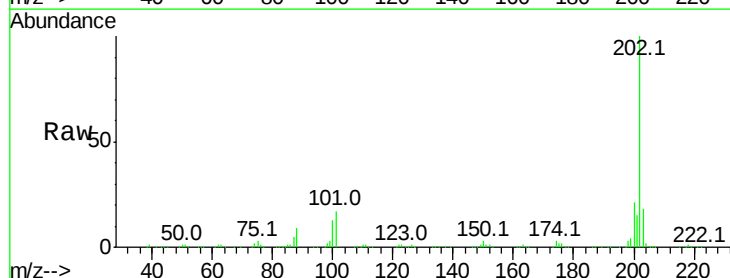
Tgt Ion:202 Resp: 378140

Ion Ratio Lower Upper

202 100

101 16.5 0.0 34.6

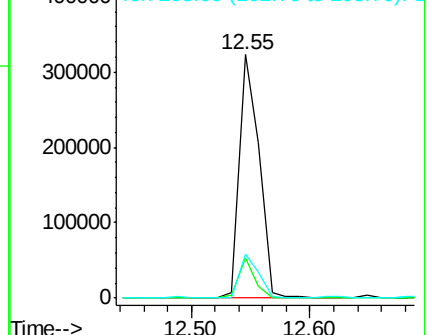
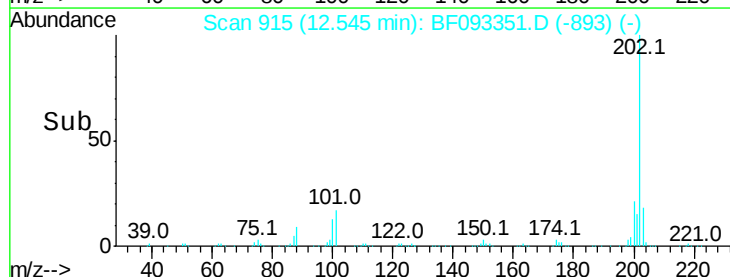
203 17.8 0.0 38.7

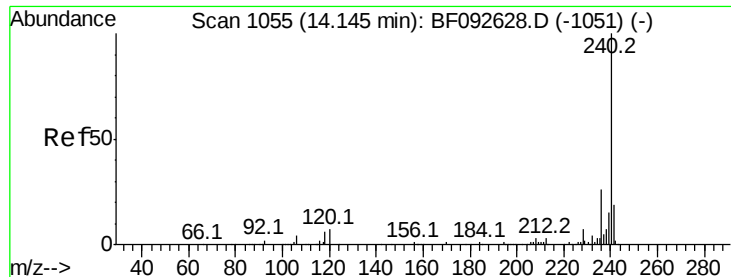


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.97 min Scan# 1040

Delta R.T. -0.05 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

Instrument :

BNA_F

ClientSampleId :

30B-4

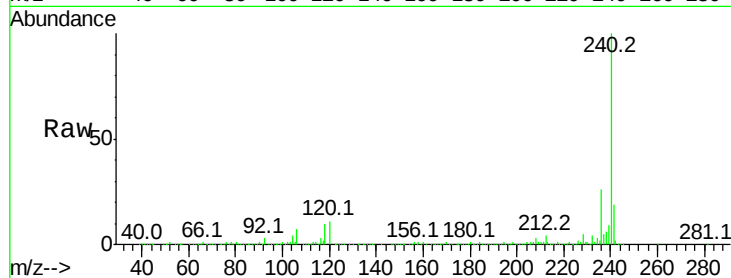
Tot Ion:240 Resp: 522928

Ion Ratio Lower Upper

240 100

120 11.0 12.9 19.3#

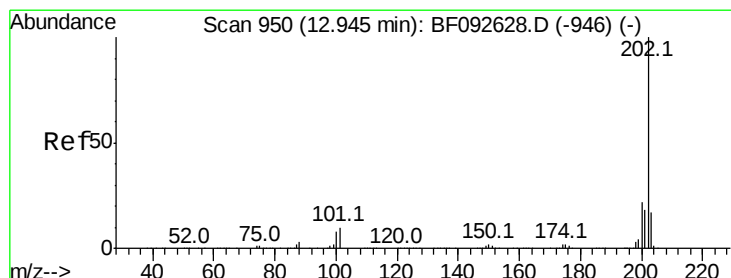
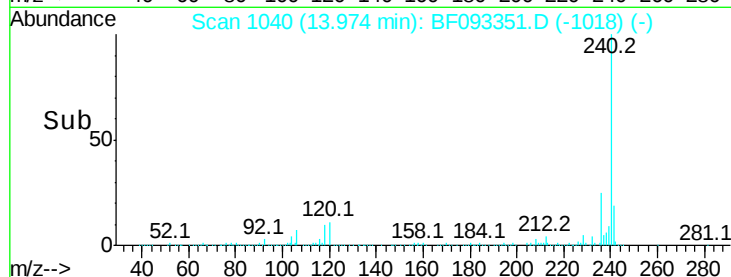
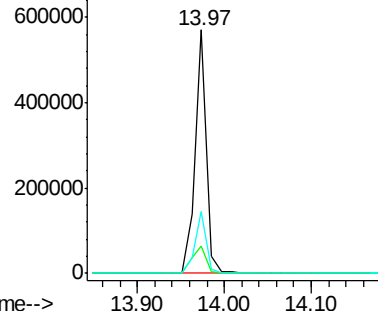
236 25.5 20.9 31.3



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: 8.13 ng

RT: 12.77 min Scan# 935

Delta R.T. -0.05 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

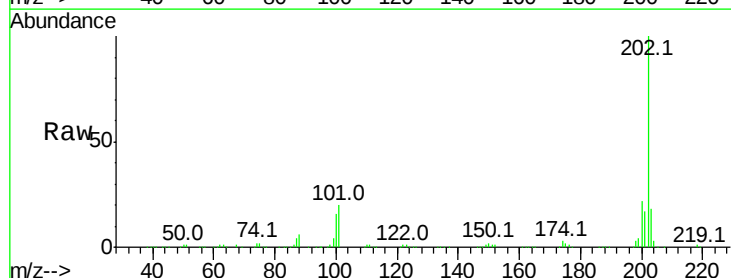
Tgt Ion:202 Resp: 317998

Ion Ratio Lower Upper

202 100

200 21.7 17.7 26.5

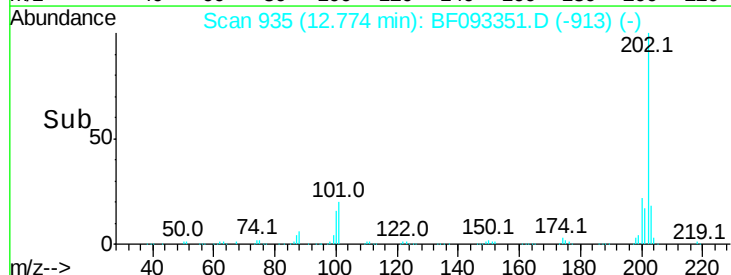
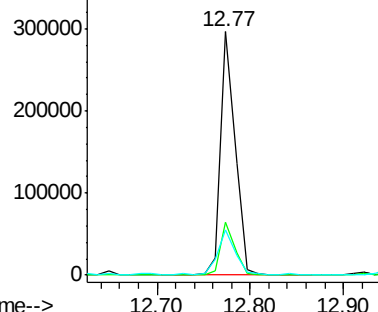
203 18.5 14.7 22.1

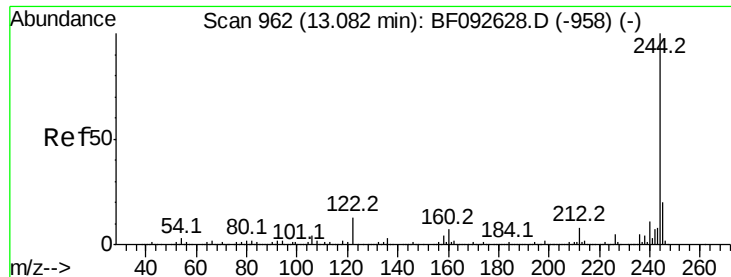


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 51.54 ng

RT: 12.92 min Scan# 948

Delta R.T. -0.05 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

Instrument :

BNA_F

ClientSampleId :

30B-4

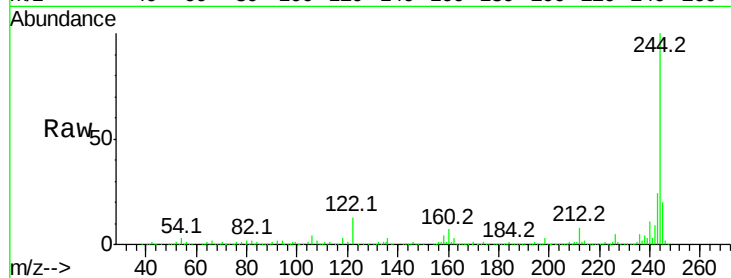
Tot Ion:244 Resp: 1147007

Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.2

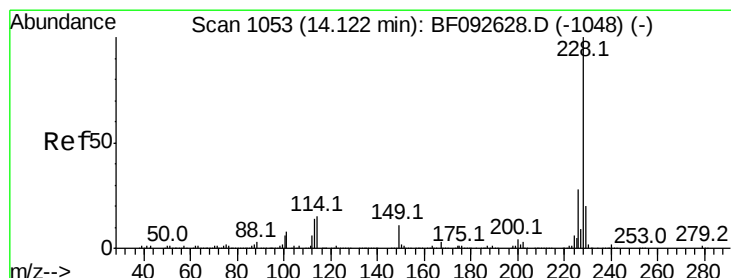
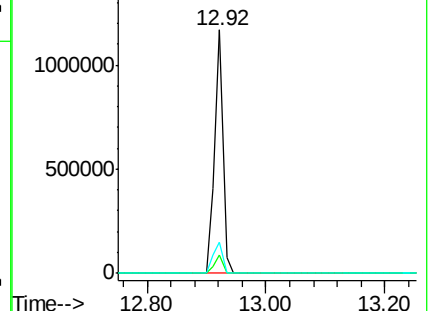
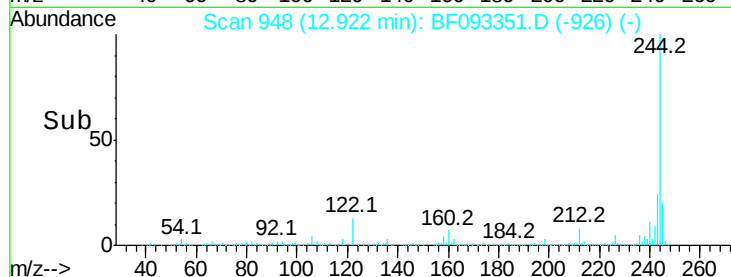
122 12.9 11.4 17.2



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: 6.08 ng

RT: 13.96 min Scan# 1039

Delta R.T. -0.05 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

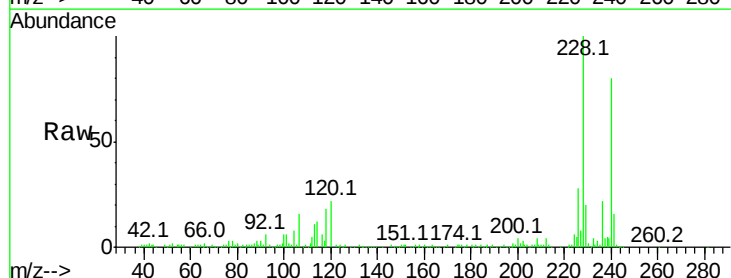
Tgt Ion:228 Resp: 194454

Ion Ratio Lower Upper

228 100

226 27.9 22.4 33.6

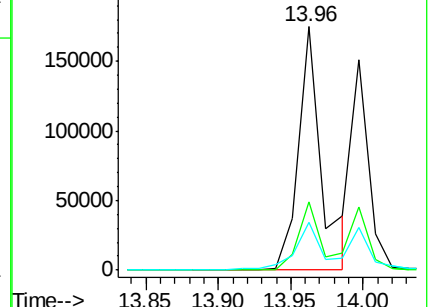
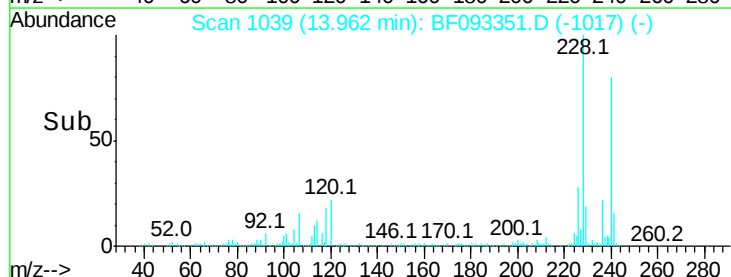
229 19.8 16.2 24.4

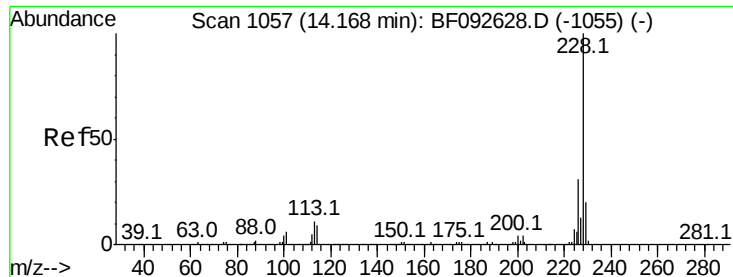


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.11 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.05 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

Instrument :

BNA_F

ClientSampled :

30B-4

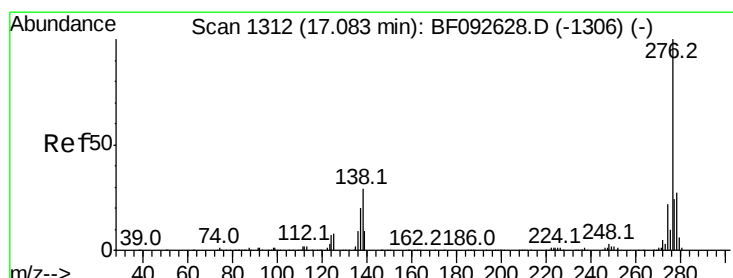
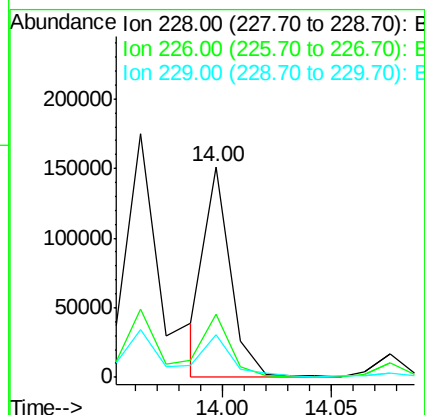
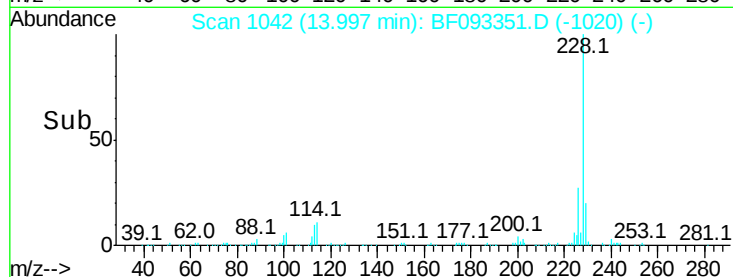
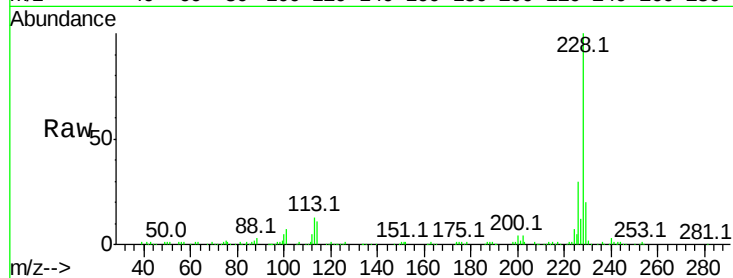
Tot Ion:228 Resp: 123211

Ion Ratio Lower Upper

228 100

226 30.2 25.4 38.0

229 20.2 16.2 24.2



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.11 ng

RT: 16.79 min Scan# 1286

Delta R.T. -0.07 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

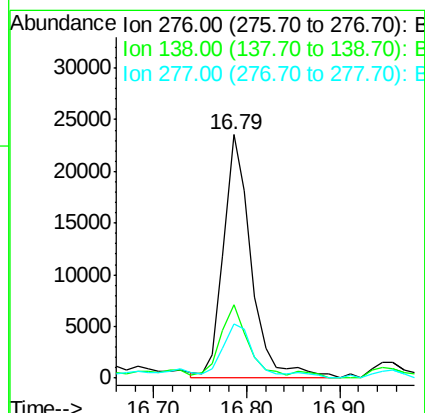
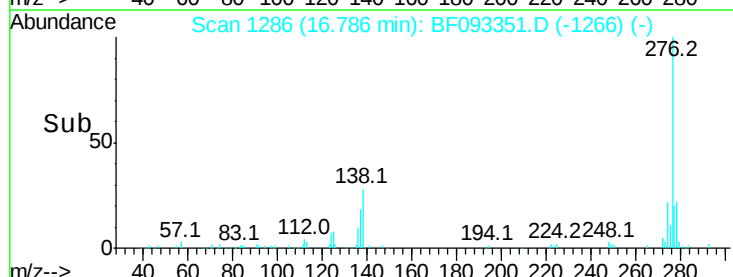
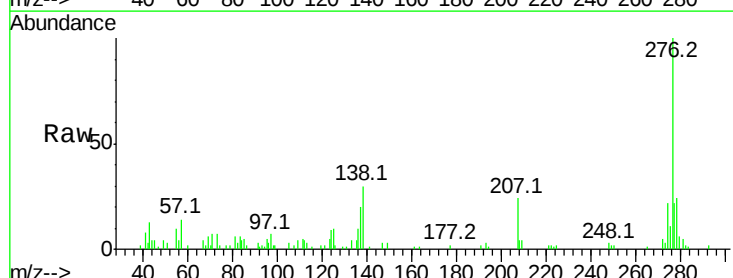
Tgt Ion:276 Resp: 48918

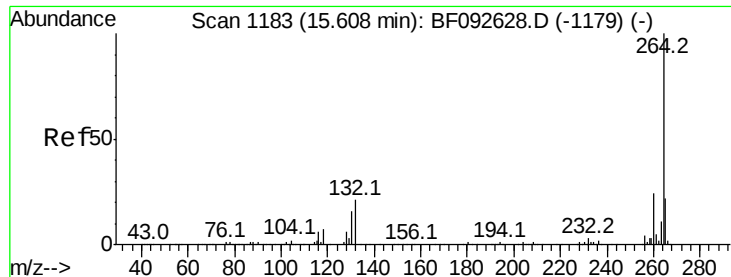
Ion Ratio Lower Upper

276 100

138 28.1 21.8 32.6

277 20.7 20.2 30.4



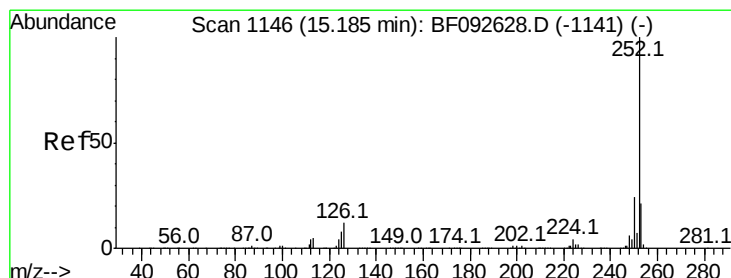
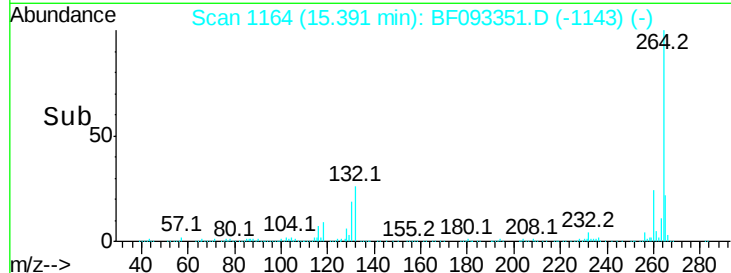
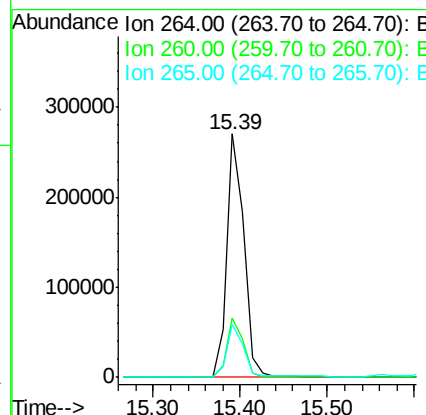
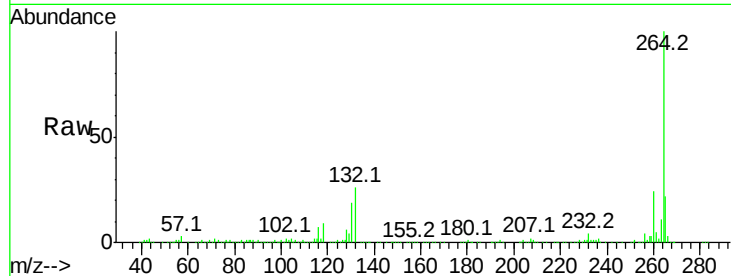


#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.39 min Scan# 1164
Delta R.T. -0.06 min
Lab File: BF093351.D
Acq: 3 Mar 2017 9:43

Instrument :
BNA_F
ClientSampleId :
30B-4

Tot Ion:264 Resp: 372896

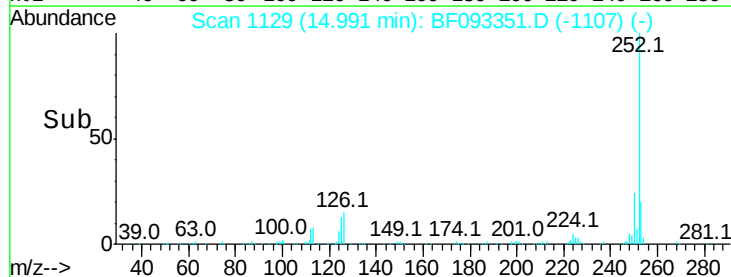
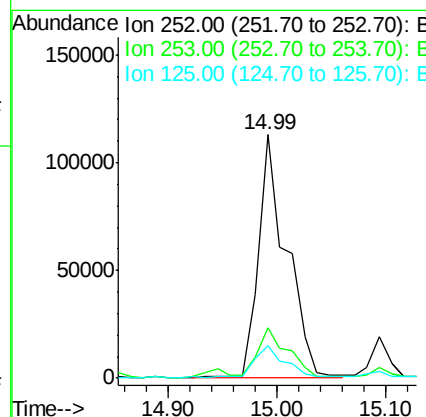
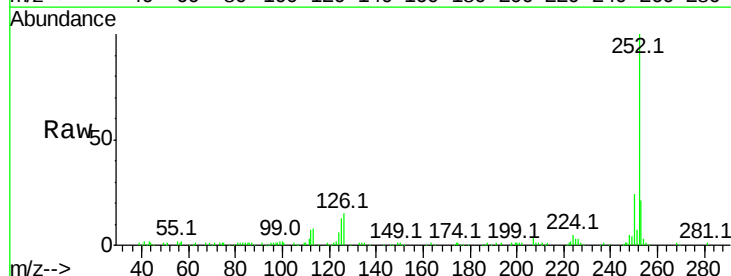
Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	21.9	17.4	26.0

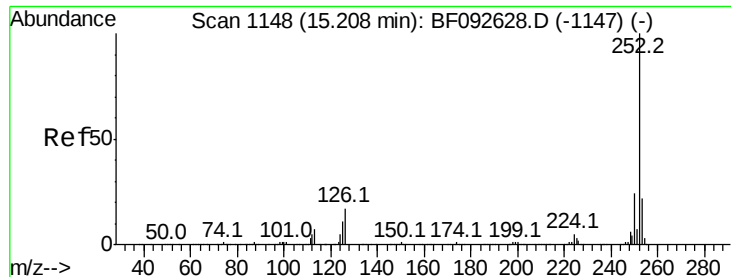


#87
Benzo(b)fluoranthene
Concen: 8.34 ng
RT: 14.99 min Scan# 1129
Delta R.T. -0.05 min
Lab File: BF093351.D
Acq: 3 Mar 2017 9:43

Tgt Ion:252 Resp: 204705

Ion	Ratio	Lower	Upper
252	100		
253	20.7	18.2	27.4
125	13.2	9.8	14.6

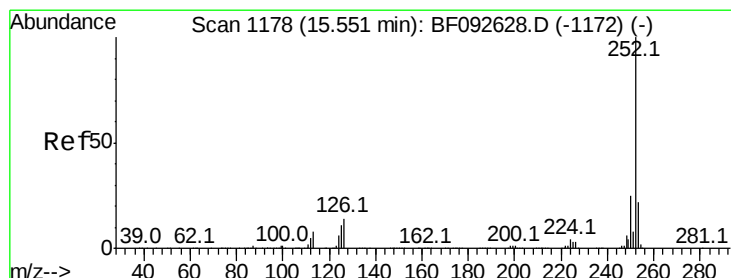
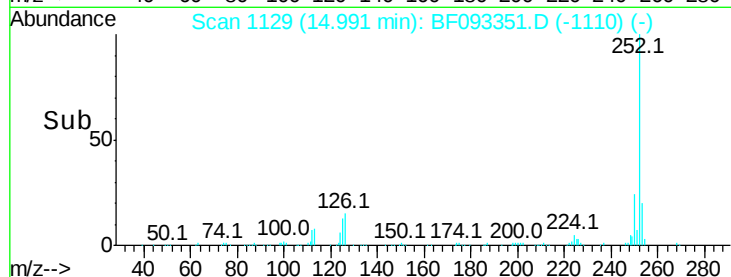
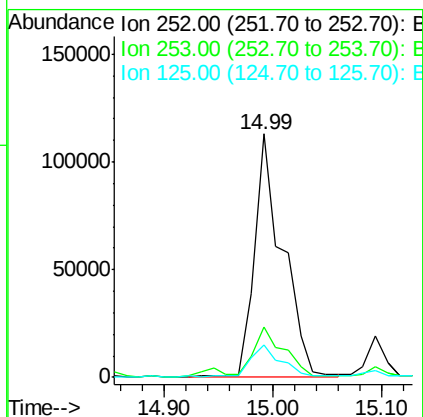
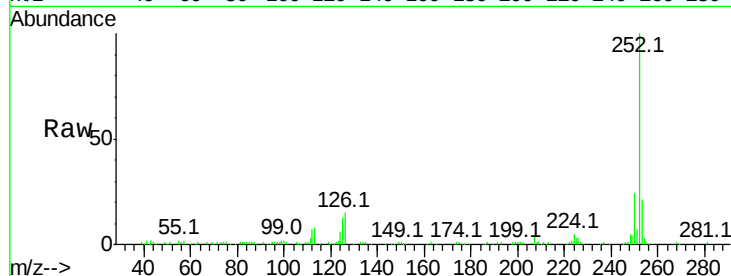




#88
Benzo(k)fluoranthene
Concen: 9.66 ng
RT: 14.99 min Scan# 1129
Delta R.T. -0.08 min
Lab File: BF093351.D
Acq: 3 Mar 2017 9:43

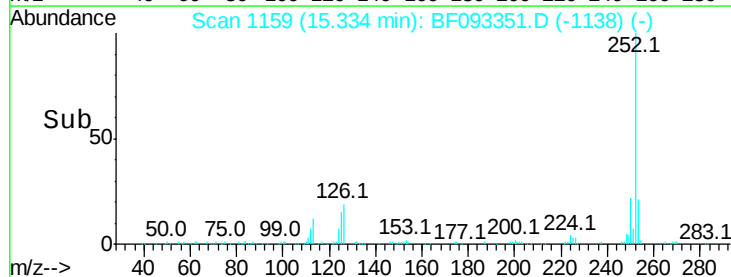
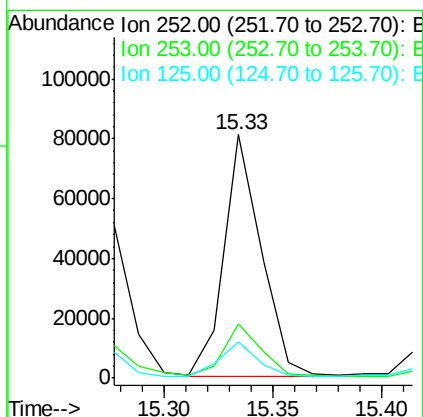
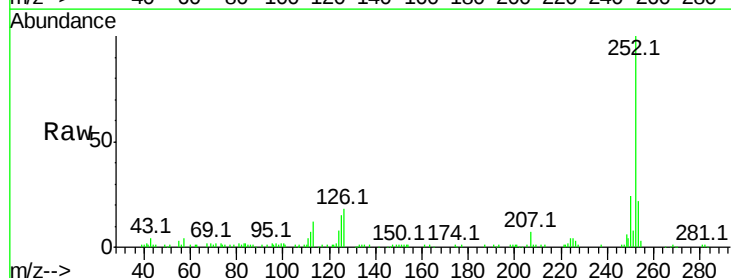
Instrument :
BNA_F
ClientSampleId :
30B-4

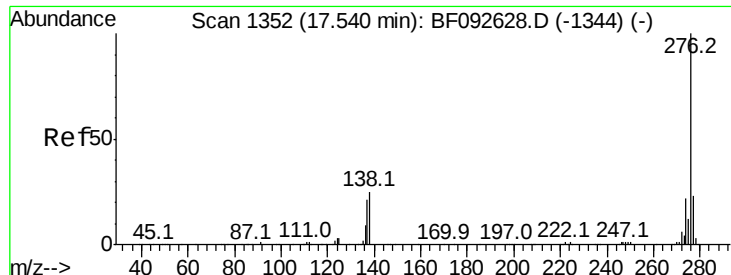
Tot Ion:252 Resp: 204705
Ion Ratio Lower Upper
252 100
253 20.7 18.5 27.7
125 13.2 8.9 13.3



#89
Benzo(a)pyrene
Concen: 4.55 ng
RT: 15.33 min Scan# 1159
Delta R.T. -0.06 min
Lab File: BF093351.D
Acq: 3 Mar 2017 9:43

Tgt Ion:252 Resp: 96674
Ion Ratio Lower Upper
252 100
253 22.1 18.2 27.2
125 15.0 10.0 15.0





#91

Benzo(a,h,i)perylene

Concen: 2.39 ng

RT: 17.21 min Scan# 1323

Delta R.T. -0.08 min

Lab File: BF093351.D

Acq: 3 Mar 2017 9:43

Instrument :

BNA_F

ClientSampleId :

30B-4

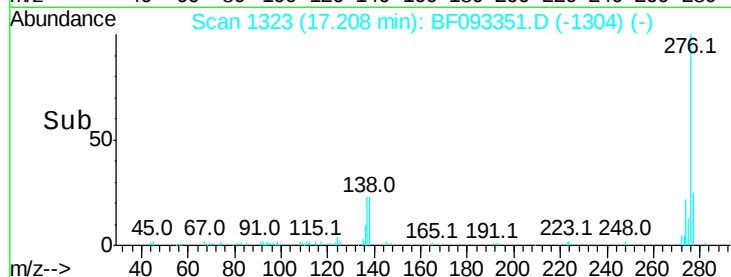
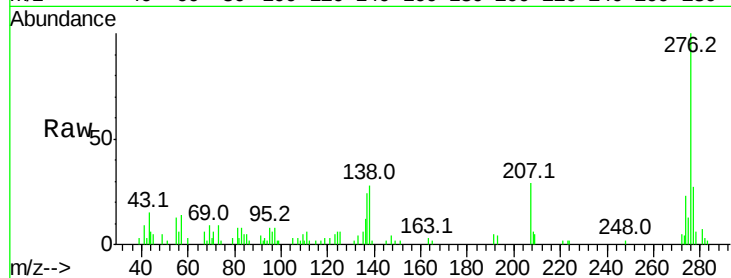
Tot Ion: 276 Resp: 41508

Ion Ratio Lower Upper

276 100

277 26.8 19.2 28.8

138 27.8 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

