

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094151.D
 Acq On : 4 Apr 2017 6:37
 Operator : SJ/MA
 Sample : I2510-03
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-P-O-11-12-BASE

Quant Time: Apr 04 07:15:43 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	175956	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	649648	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	253167	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	378714	20.00	ng	-0.02
75) Chrysene-d12	14.62	240	324802	20.00	ng	-0.01
86) Perylene-d12	16.25	264	227383	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.43	112	1066080	102.33	ng	0.00
7) Phenol-d6	5.50	99	1326697	102.94	ng	-0.01
23) Nitrobenzene-d5	6.54	82	731220	64.23	ng	-0.02
41) 2,4,6-Tribromophenol	10.51	330	179300	89.62	ng	-0.01
44) 2-Fluorobiphenyl	8.72	172	1365638	82.28	ng	-0.02
78) Terphenyl-d14	13.34	244	917814	63.34	ng	-0.01

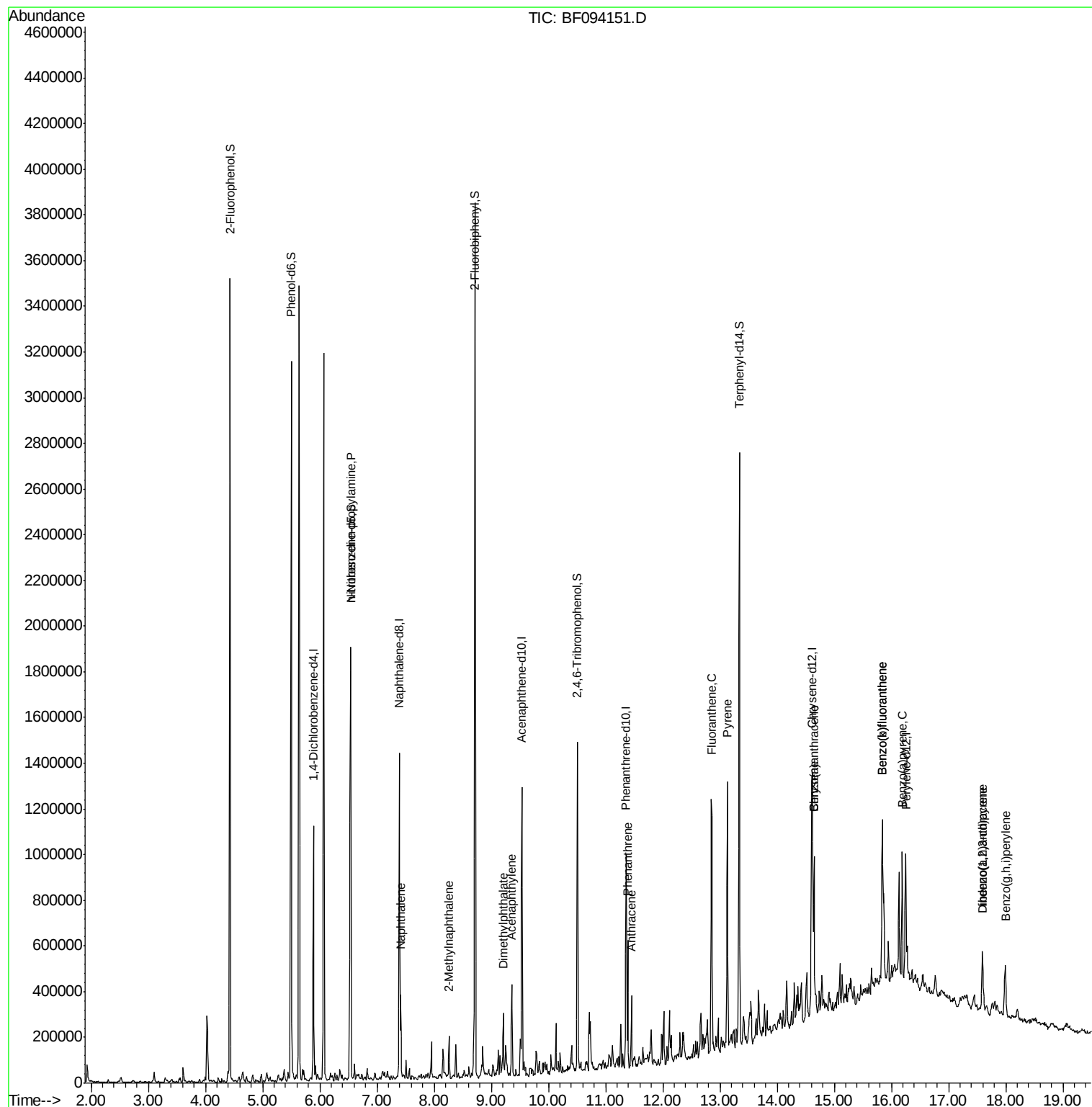
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	6.54	70	97884	11.82	ng	# 76
31) Naphthalene	7.42	128	131989	4.23	ng	99
37) 2-Methylnaphthalene	8.26	142	54271	2.61	ng	98
48) Acenaphthylene	9.36	152	174779	6.58	ng	97
49) Dimethylphthalate	9.21	163	106884	5.94	ng	99
70) Phenanthrene	11.39	178	210795	10.01	ng	97
71) Anthracene	11.45	178	130796	6.03	ng	97
74) Fluoranthene	12.85	202	521459	24.17	ng	98
77) Pyrene	13.13	202	537778	22.81	ng	99
80) Benzo(a)anthracene	14.64	228	313220	16.54	ng	95
82) Chrysene	14.64	228	313220	17.82	ng	97
85) Indeno(1,2,3-cd)pyrene	17.59	276	159193	10.46	ng	95
87) Benzo(b)fluoranthene	15.84	252	536106	38.46	ng	# 97
88) Benzo(k)fluoranthene	15.84	252	536106	39.31	ng	99
89) Benzo(a)pyrene	16.19	252	227692	17.74	ng	97
90) Dibenzo(a,h)anthracene	17.60	278	36354	3.34	ng	# 87
91) Benzo(a,h,i)perylene	17.99	276	165622	15.12	ng	99

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

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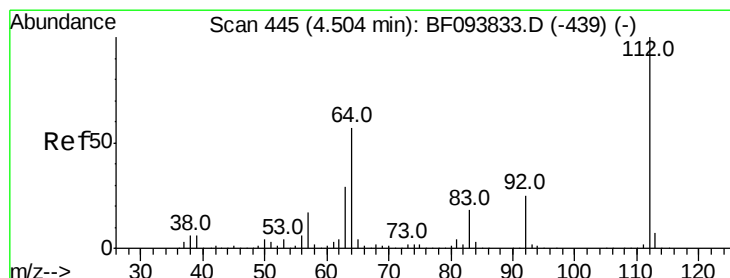
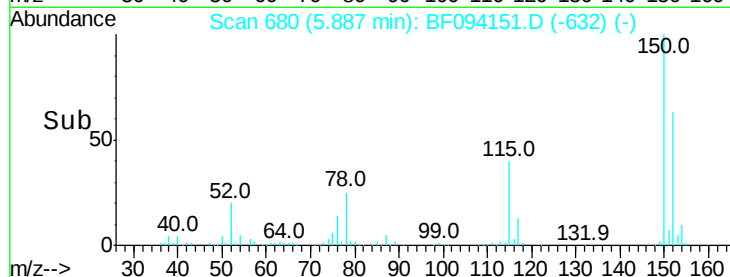
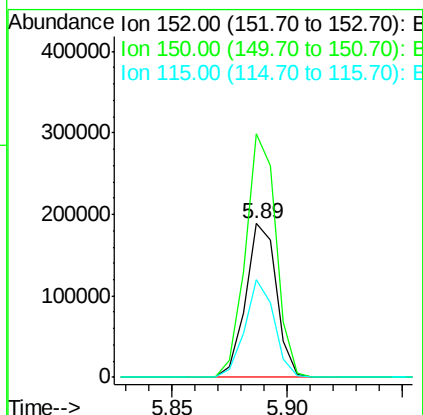
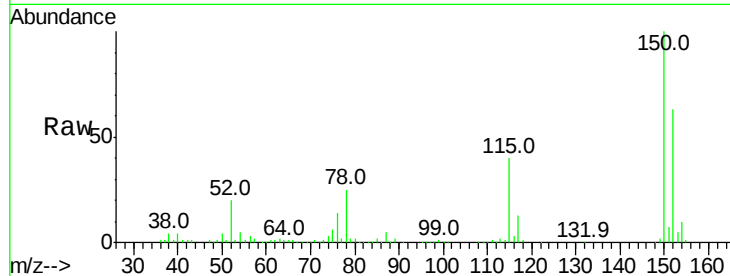


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.89 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF094151.D
Acq: 4 Apr 2017 6:37

Instrument :
BNA_F
ClientSampleId :
E2-P-O-11-12-BASE

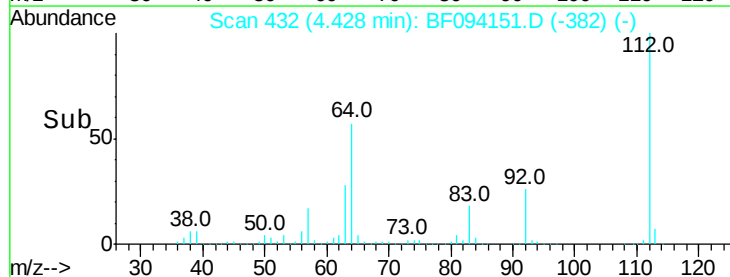
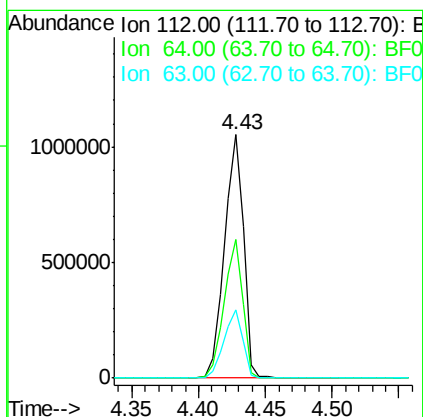
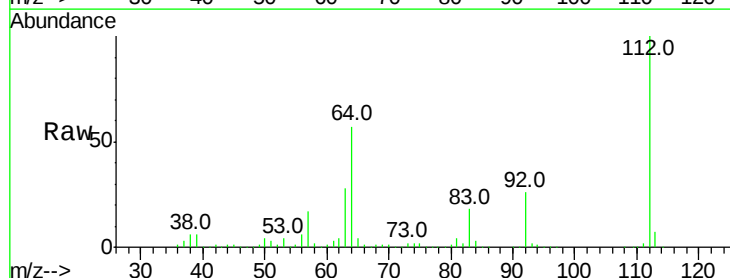
Tot Ion:152 Resp: 175956
Ion Ratio Lower Upper
152 100
150 158.4 126.2 189.2
115 63.8 52.2 78.2

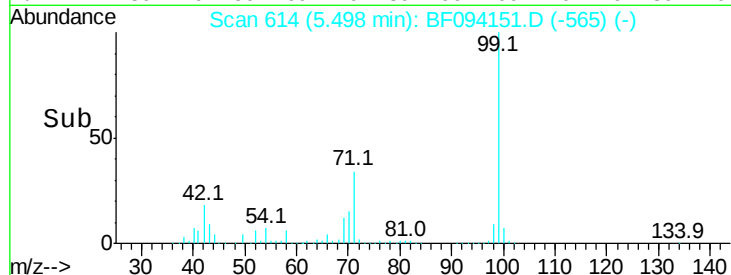
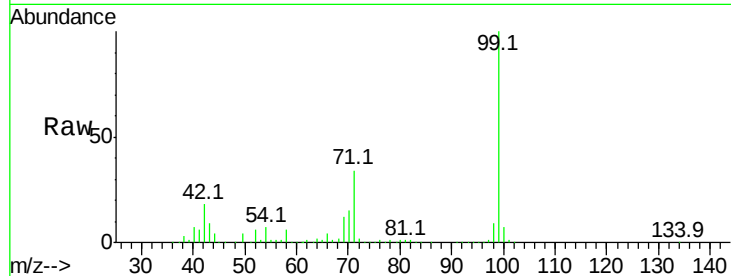
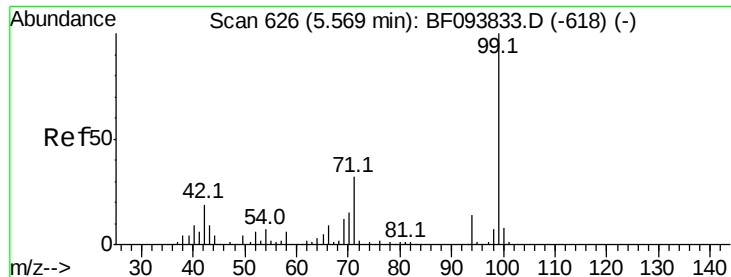


#5

2-Fluorophenol
Concen: 102.33 ng
RT: 4.43 min Scan# 432
Delta R.T. -0.01 min
Lab File: BF094151.D
Acq: 4 Apr 2017 6:37

Tgt Ion:112 Resp: 1066080
Ion Ratio Lower Upper
112 100
64 56.9 46.0 69.0
63 28.3 23.4 35.0





#7

Phenol-d6

Concen: 102.94 ng

RT: 5.50 min Scan# 614

Delta R.T. -0.01 min

Lab File: BF094151.D

Acq: 4 Apr 2017 6:37

Instrument :

BNA_F

ClientSampleId :

E2-P-O-11-12-BASE

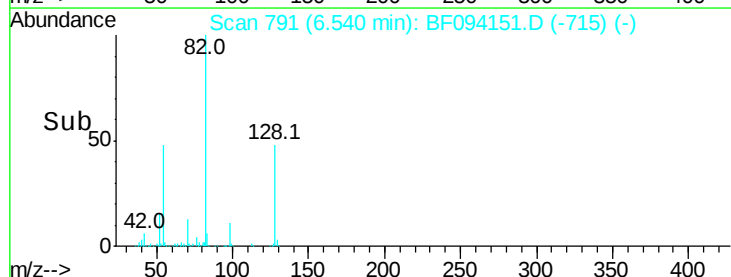
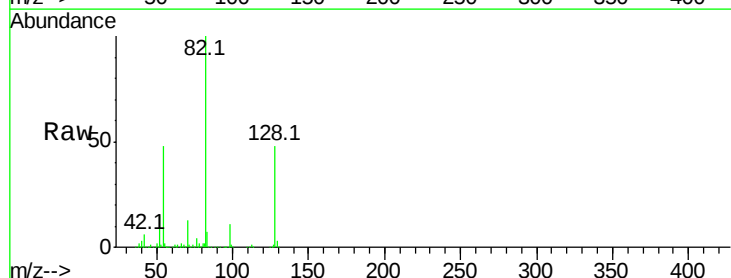
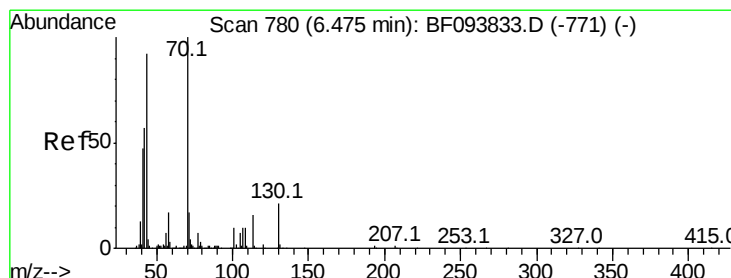
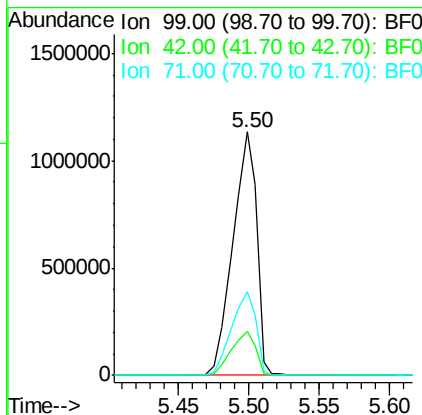
Tot Ion: 99 Resp: 132697

Ion Ratio Lower Upper

99 100

42 18.1 13.5 20.3

71 34.4 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 11.82 ng

RT: 6.54 min Scan# 791

Delta R.T. 0.15 min

Lab File: BF094151.D

Acq: 4 Apr 2017 6:37

Tgt Ion: 70 Resp: 97884

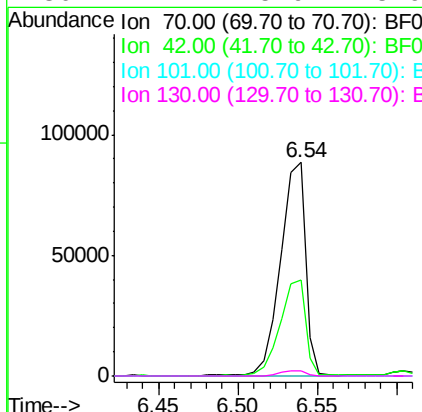
Ion Ratio Lower Upper

70 100

42 45.1 47.2 70.8#

101 0.0 7.2 10.8#

130 2.4 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.39 min Scan# 936

Delta R.T. -0.02 min

Lab File: BF094151.D

Acq: 4 Apr 2017 6:37

Instrument :

BNA_F

ClientSampleId :

E2-P-O-11-12-BASE

Tot Ion:136 Resp: 649648

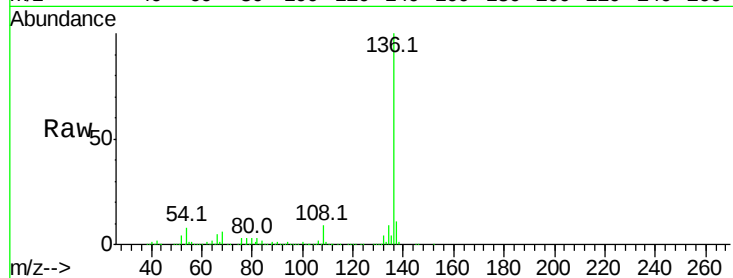
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 7.6 4.9 7.3#

68 6.1 4.1 6.1

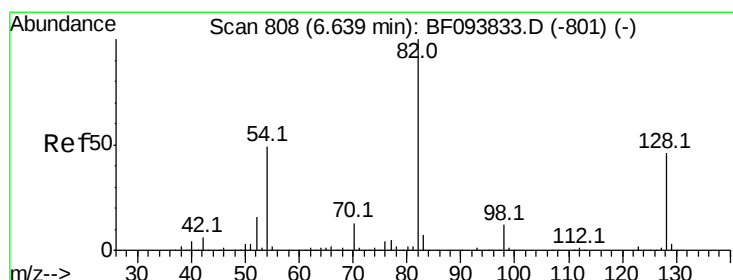
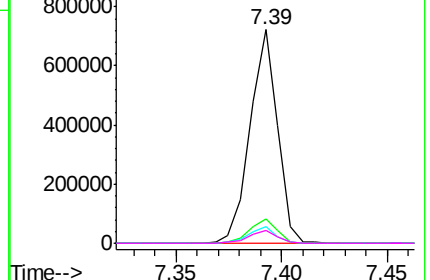
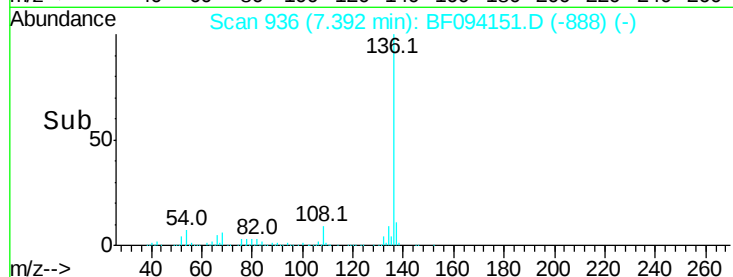


Abundance Ion 136.00 (135.70 to 136.70): E

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: 64.23 ng

RT: 6.54 min Scan# 791

Delta R.T. -0.02 min

Lab File: BF094151.D

Acq: 4 Apr 2017 6:37

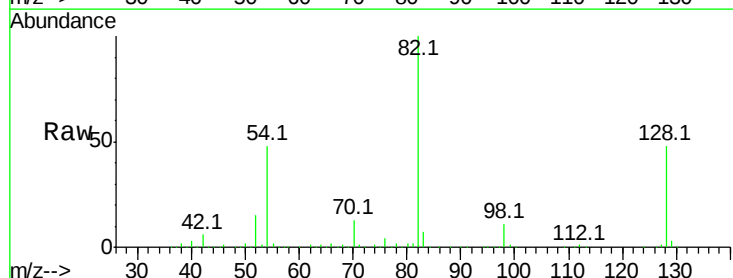
Tgt Ion: 82 Resp: 731220

Ion Ratio Lower Upper

82 100

128 47.6 34.0 51.0

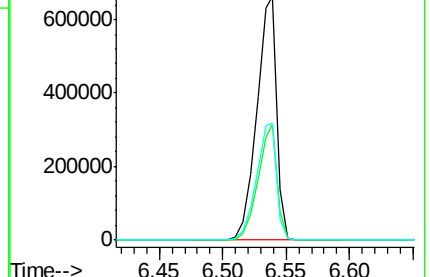
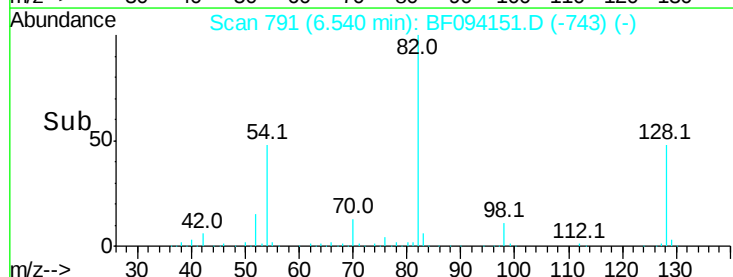
54 48.1 42.2 63.2

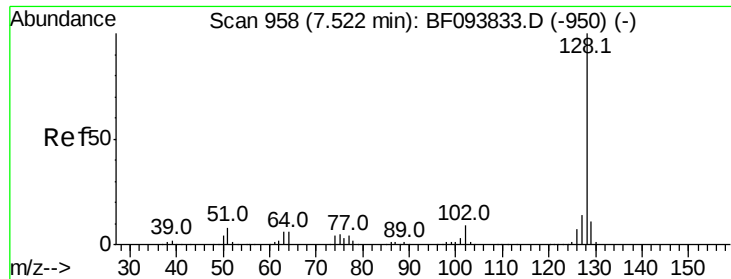


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

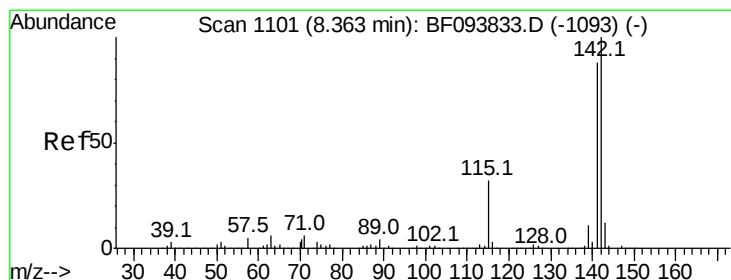
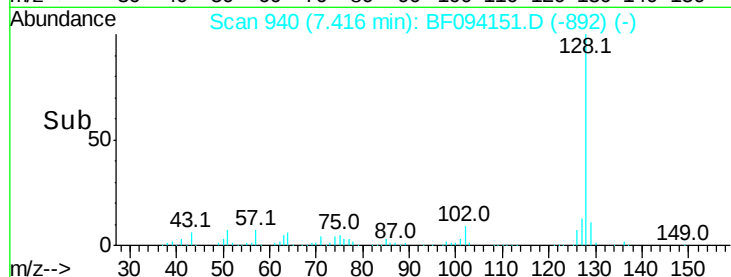
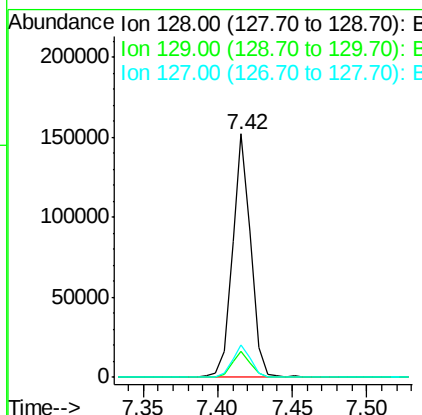
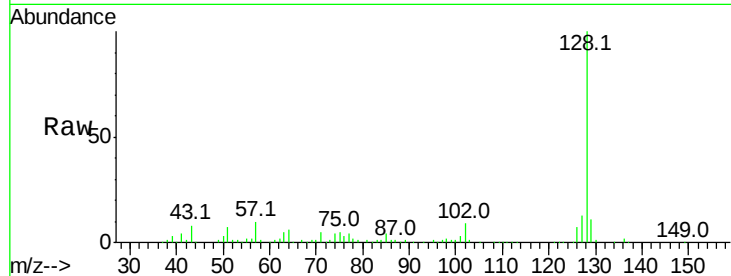




#31
Naphthalene
Concen: 4.23 ng
RT: 7.42 min Scan# 940
Delta R.T. -0.02 min
Lab File: BF094151.D
Acq: 4 Apr 2017 6:37

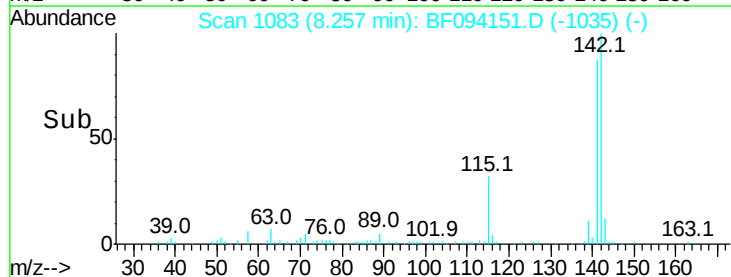
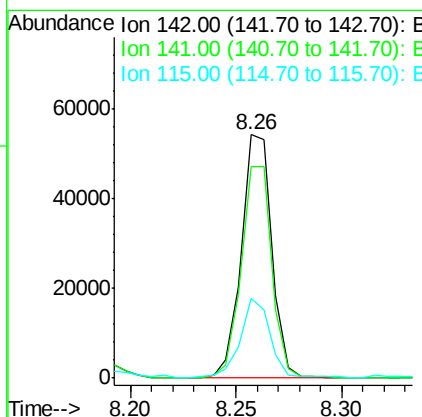
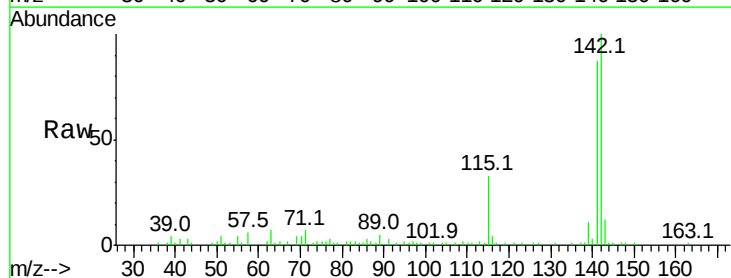
Instrument :
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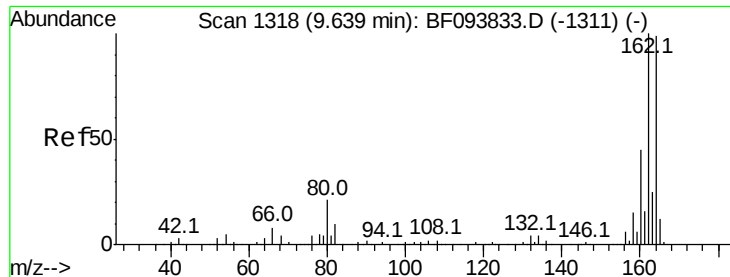
Tot Ion:128 Resp: 131989
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.6
127 13.2 10.8 16.2



#37
2-Methylnaphthalene
Concen: 2.61 ng
RT: 8.26 min Scan# 1083
Delta R.T. -0.02 min
Lab File: BF094151.D
Acq: 4 Apr 2017 6:37

Tgt Ion:142 Resp: 54271
Ion Ratio Lower Upper
142 100
141 86.7 71.3 106.9
115 32.7 27.1 40.7

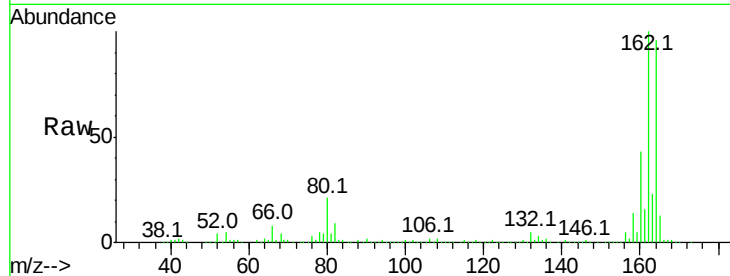




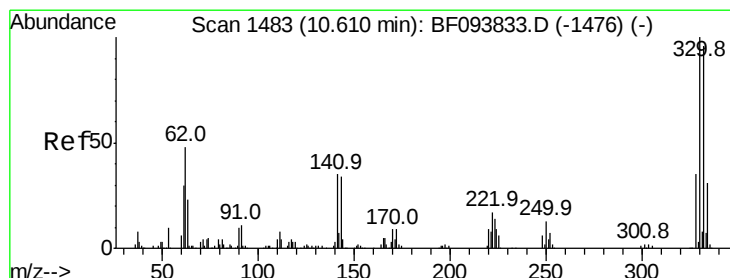
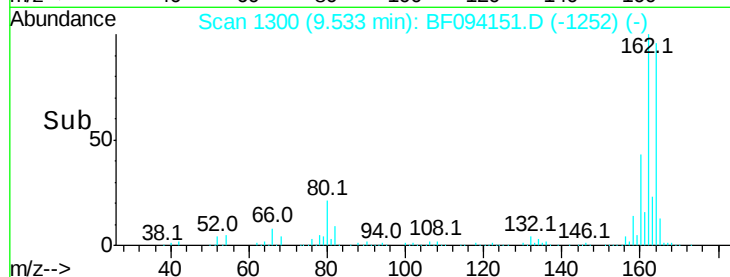
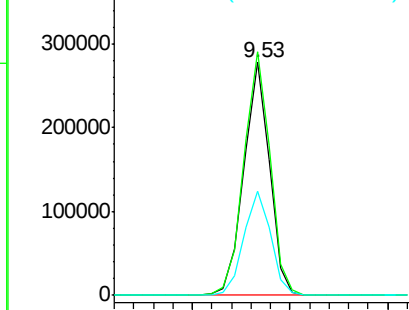
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 1300
 Delta R.T. -0.02 min
 Lab File: BF094151.D
 Acq: 4 Apr 2017 6:37

Instrument :
 BNA_F
 ClientSampleId :
 E2-P-O-11-12-BASE

Tot Ion	Ratio	Lower	Upper
164	100		
162	104.5	82.6	123.8
160	44.7	36.2	54.2

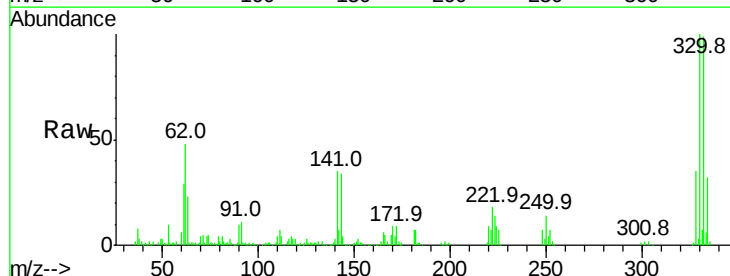


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

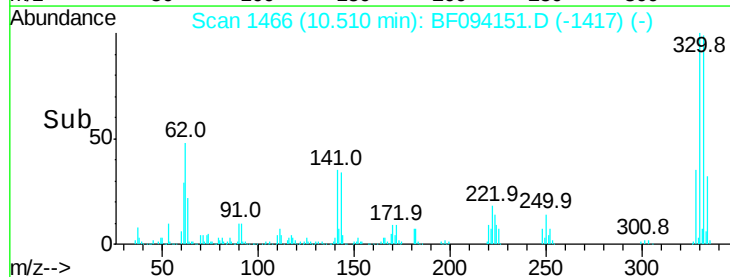
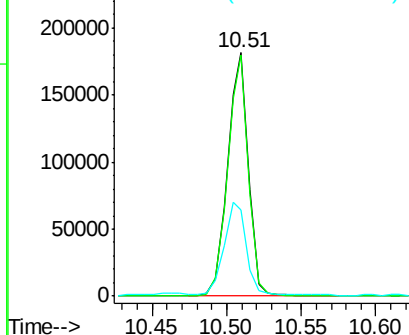


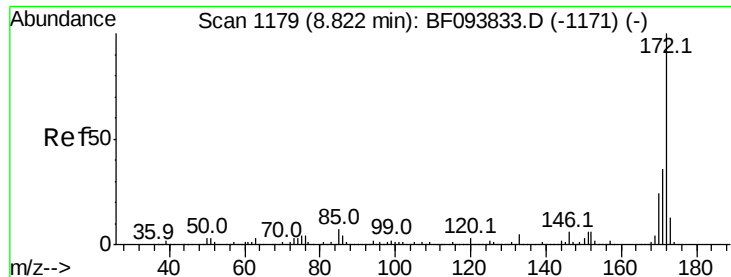
#41
 2,4,6-Tribromophenol
 Concen: 89.62 ng
 RT: 10.51 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: BF094151.D
 Acq: 4 Apr 2017 6:37

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.0	76.6	115.0
141	40.7	31.4	47.2



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



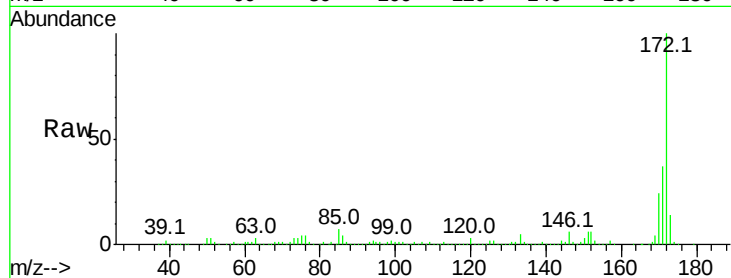


#44
2-Fluorobiphenyl
Concen: 82.28 ng
RT: 8.72 min Scan# 1161
Delta R.T. -0.02 min
Lab File: BF094151.D
Acq: 4 Apr 2017 6:37

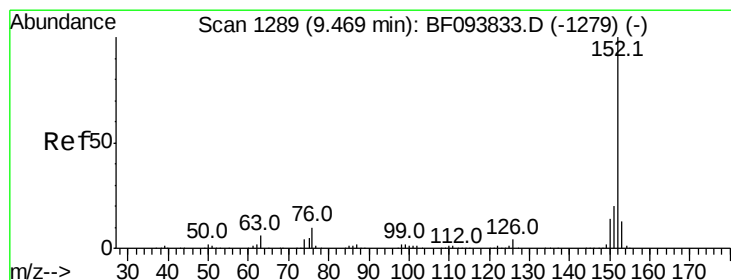
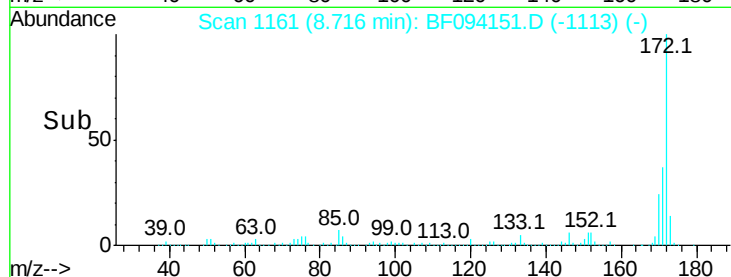
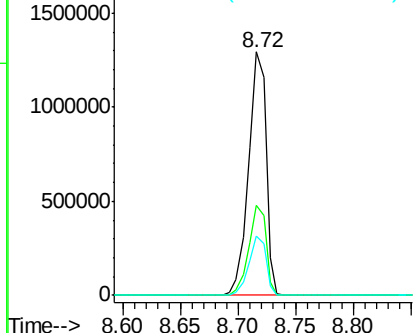
Instrument :
BNA_F
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E2-P-O-11-12-BASE

Tot Ion:172 Resp: 1365638

Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.6	44.4
170	24.3	19.8	29.8



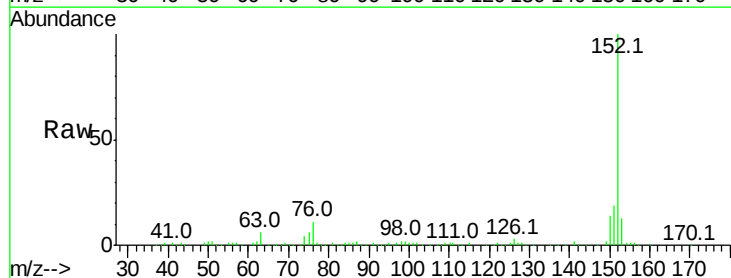
Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E



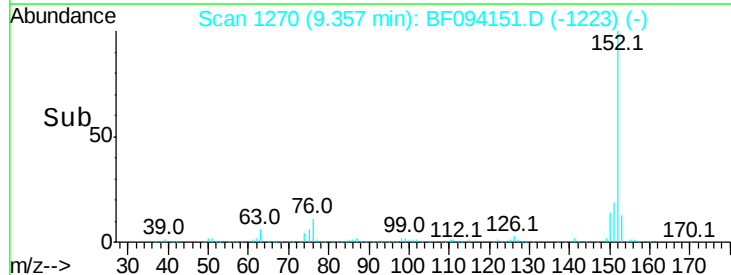
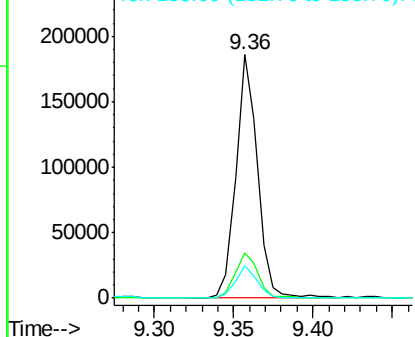
#48
Acenaphthylene
Concen: 6.58 ng
RT: 9.36 min Scan# 1270
Delta R.T. -0.02 min
Lab File: BF094151.D
Acq: 4 Apr 2017 6:37

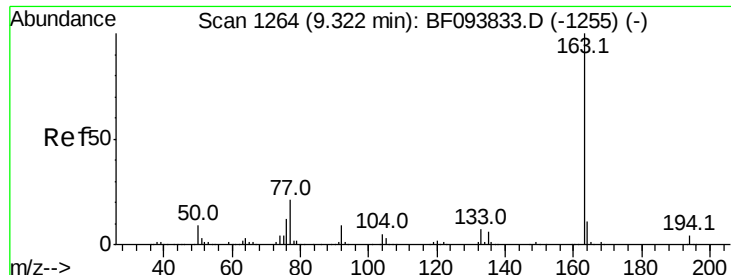
Tgt Ion:152 Resp: 174779

Ion	Ratio	Lower	Upper
152	100		
151	18.6	16.8	25.2
153	13.4	10.8	16.2



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





#49

Dimethylphthalate

Concen: 5.94 ng

RT: 9.21 min Scan# 1245

Delta R.T. -0.04 min

Lab File: BF094151.D

Acq: 4 Apr 2017 6:37

Instrument :

BNA_F

ClientSampleId :

E2-P-O-11-12-BASE

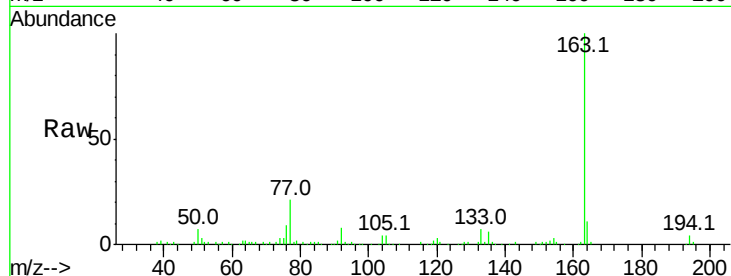
Tot Ion:163 Resp: 106884

Ion Ratio Lower Upper

163 100

194 3.5 2.6 4.0

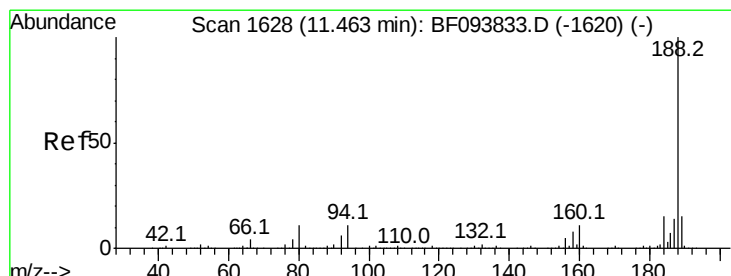
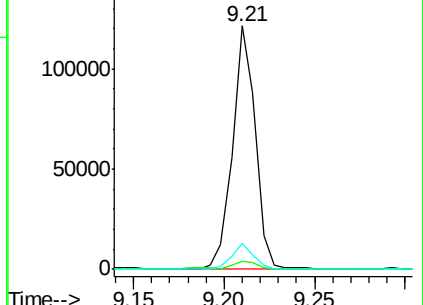
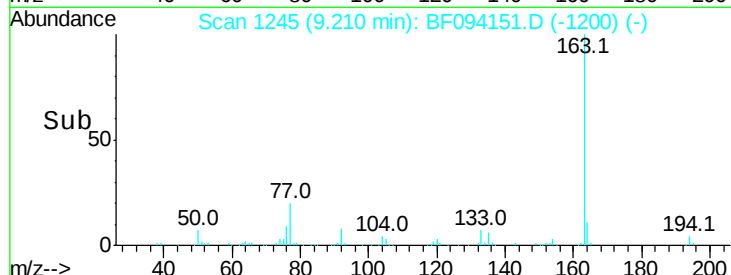
164 10.7 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 1610

Delta R.T. -0.02 min

Lab File: BF094151.D

Acq: 4 Apr 2017 6:37

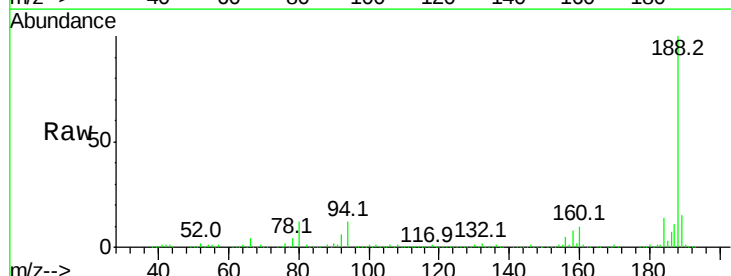
Tgt Ion:188 Resp: 378714

Ion Ratio Lower Upper

188 100

94 11.9 9.4 14.2

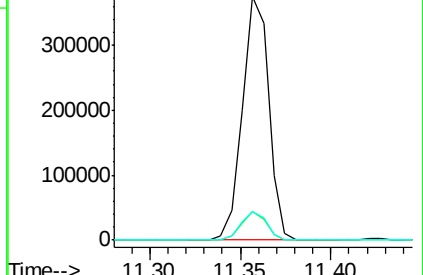
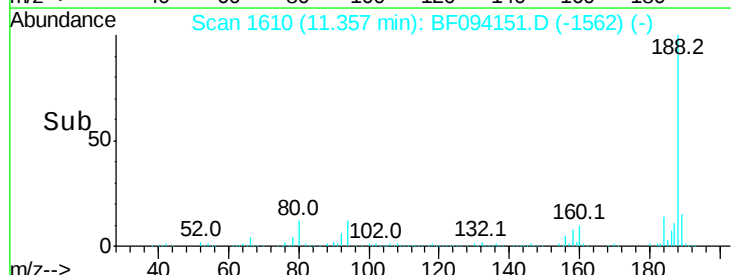
80 11.6 10.2 15.2

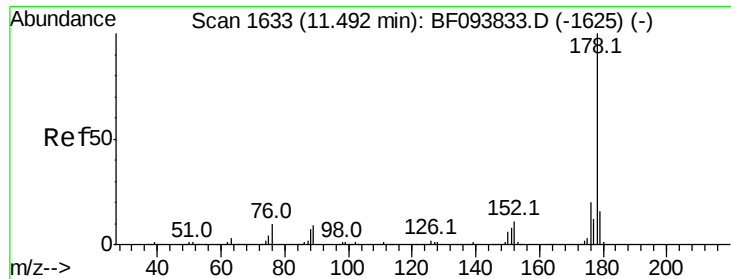


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

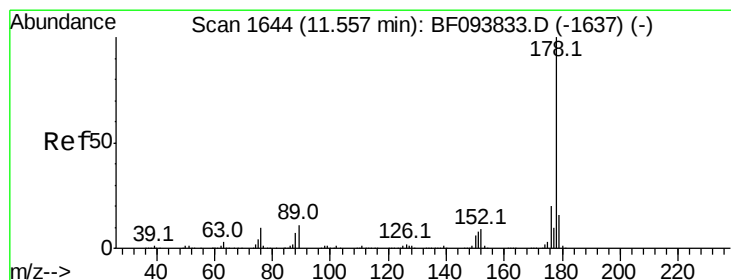
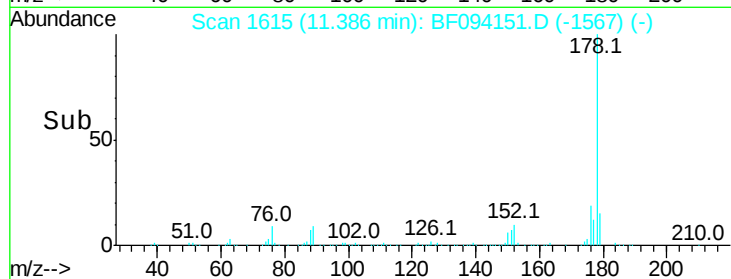
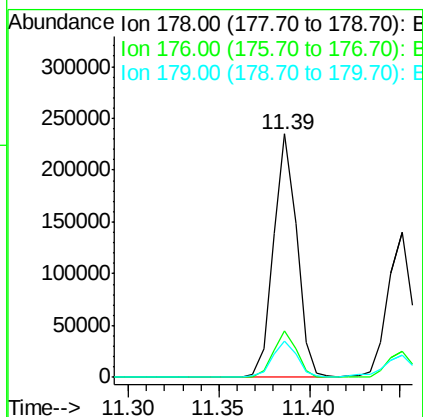
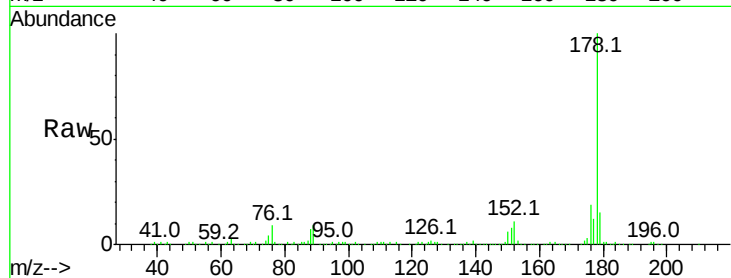




#70
Phenanthrene
Concen: 10.01 ng
RT: 11.39 min Scan# 1615
Delta R.T. -0.02 min
Lab File: BF094151.D
Acq: 4 Apr 2017 6:37

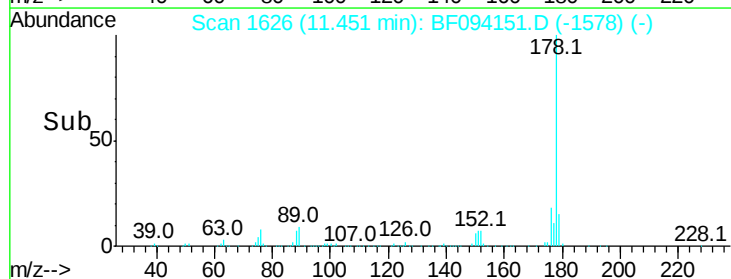
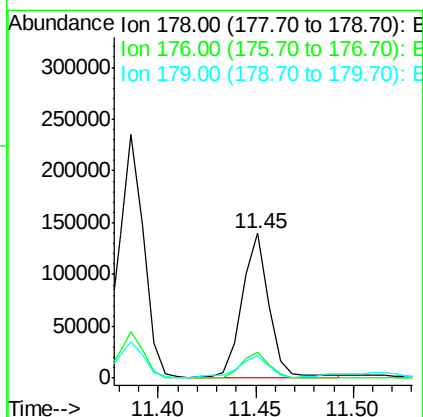
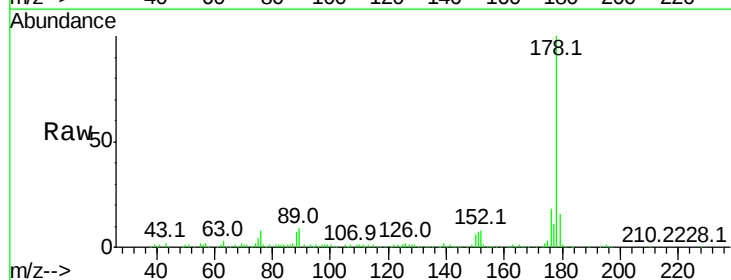
Instrument :
BNA_F
ClientSampleId :
E2-P-O-11-12-BASE

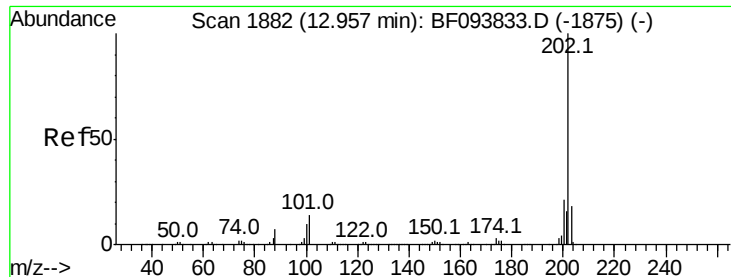
Tot Ion:178 Resp: 210795
Ion Ratio Lower Upper
178 100
176 18.9 16.2 24.4
179 14.9 12.6 19.0



#71
Anthracene
Concen: 6.03 ng
RT: 11.45 min Scan# 1626
Delta R.T. -0.02 min
Lab File: BF094151.D
Acq: 4 Apr 2017 6:37

Tgt Ion:178 Resp: 130796
Ion Ratio Lower Upper
178 100
176 18.0 15.8 23.8
179 15.6 12.7 19.1





#74

Fluoranthene

Concen: 24.17 ng

RT: 12.85 min Scan# 1864

Delta R.T. -0.02 min

Lab File: BF094151.D

Acq: 4 Apr 2017 6:37

Instrument :

BNA_F

ClientSampleId :

E2-P-O-11-12-BASE

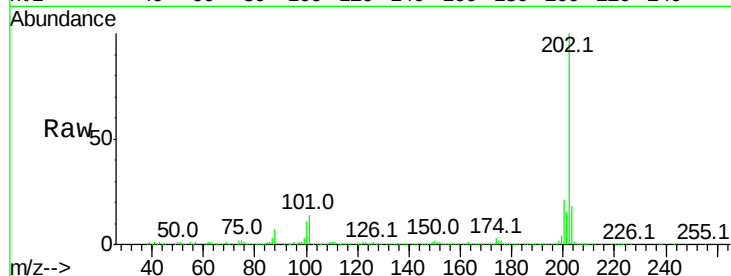
Tot Ion:202 Resp: 521459

Ion Ratio Lower Upper

202 100

101 14.4 0.0 33.2

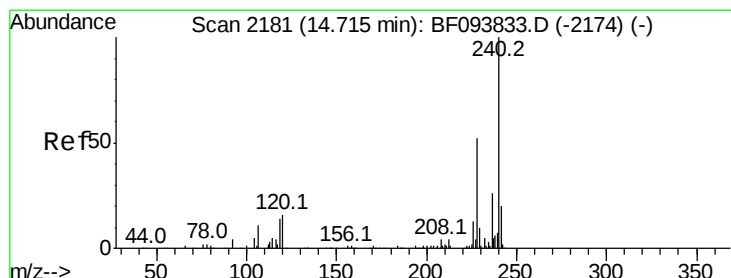
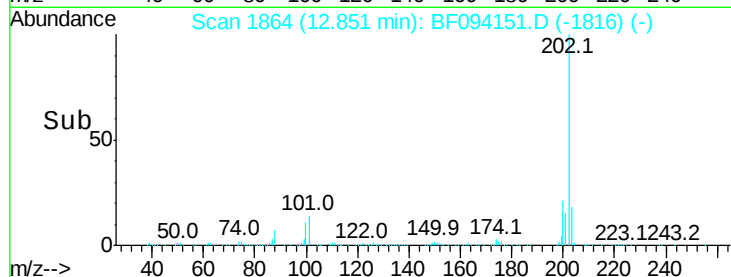
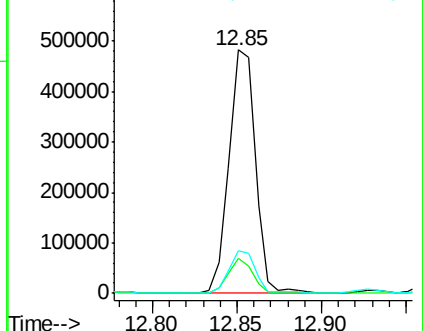
203 17.8 0.0 38.1



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: 14.62 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF094151.D

Acq: 4 Apr 2017 6:37

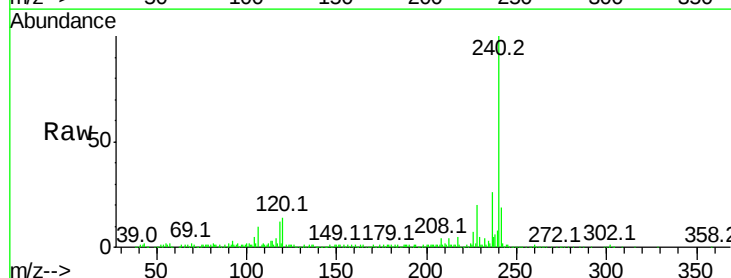
Tgt Ion:240 Resp: 324802

Ion Ratio Lower Upper

240 100

120 14.2 5.8 8.8#

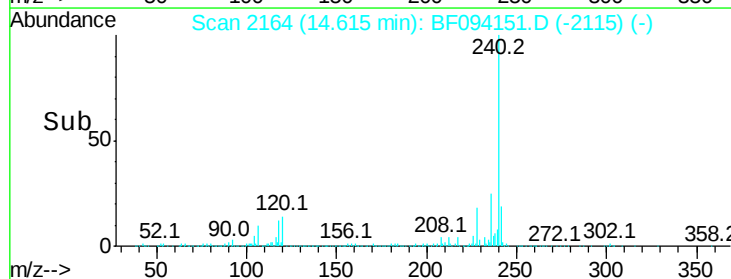
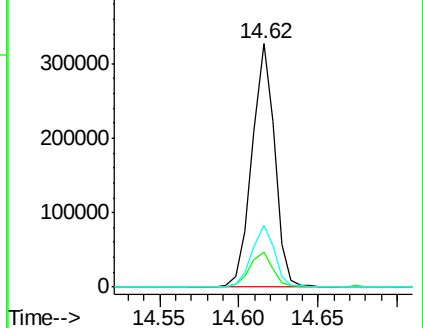
236 25.5 20.5 30.7

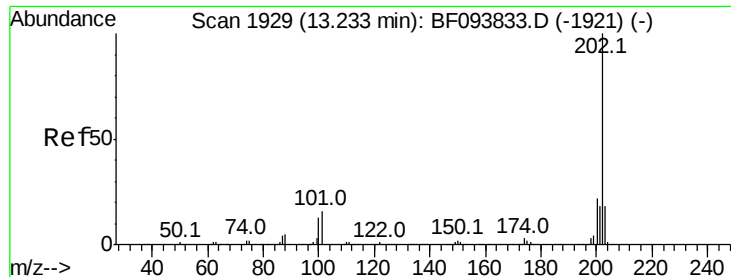


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

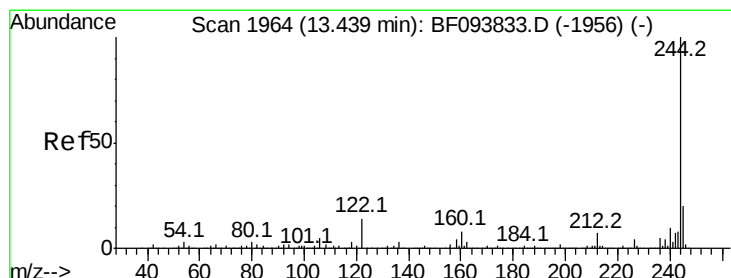
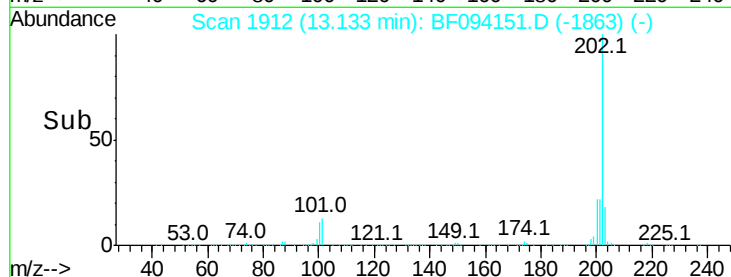
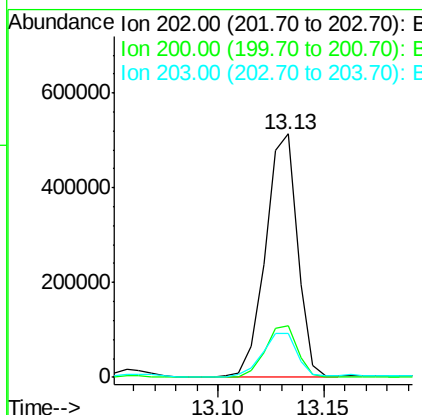
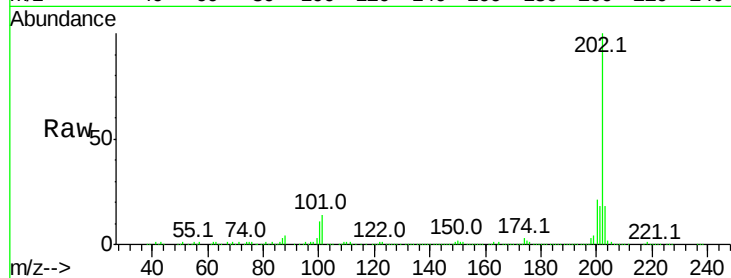




#77
Pvrene
Concen: 22.81 ng
RT: 13.13 min Scan# 1912
Delta R.T. -0.01 min
Lab File: BF094151.D
Acq: 4 Apr 2017 6:37

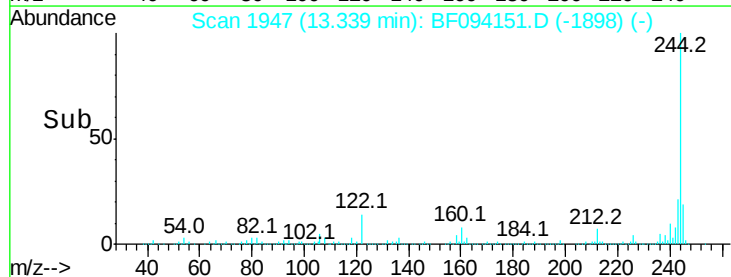
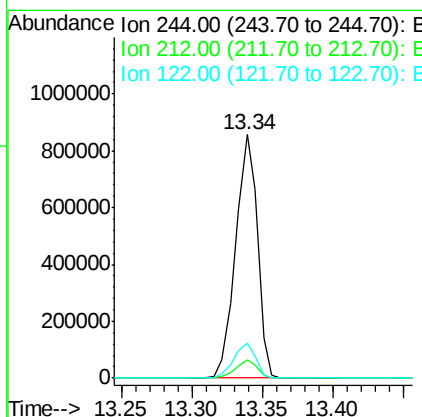
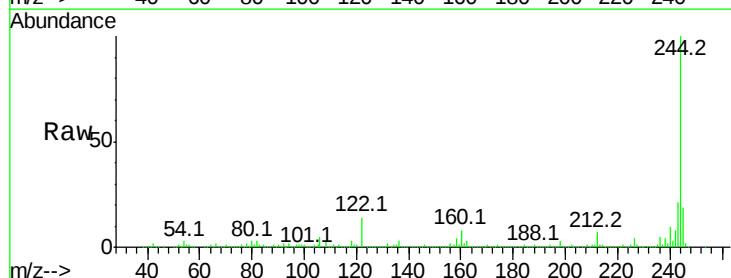
Instrument :
BNA_F
ClientSampleId :
E2-P-O-11-12-BASE

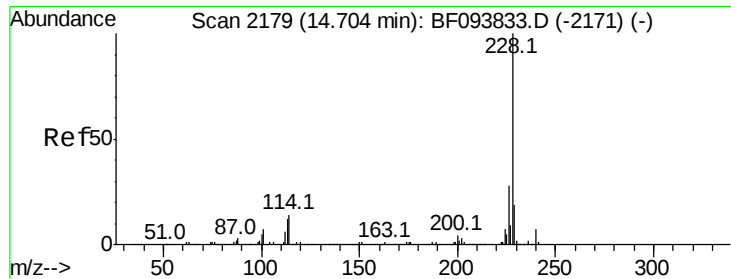
Tot Ion:202 Resp: 537778
Ion Ratio Lower Upper
202 100
200 21.0 17.6 26.4
203 17.8 14.4 21.6



#78
Terphenyl-d14
Concen: 63.34 ng
RT: 13.34 min Scan# 1947
Delta R.T. -0.01 min
Lab File: BF094151.D
Acq: 4 Apr 2017 6:37

Tgt Ion:244 Resp: 917814
Ion Ratio Lower Upper
244 100
212 7.3 6.0 9.0
122 14.4 10.3 15.5

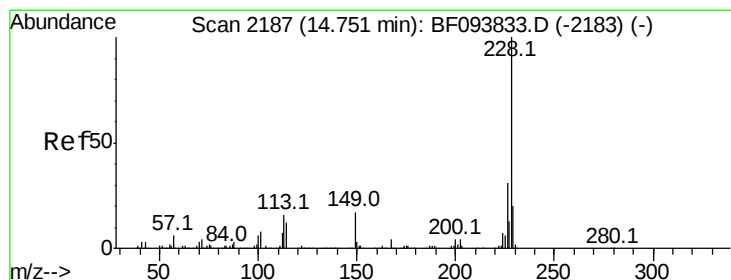
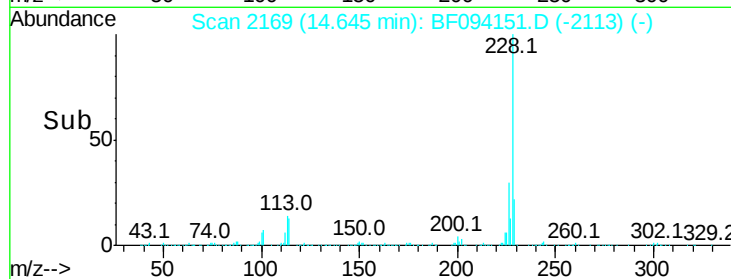
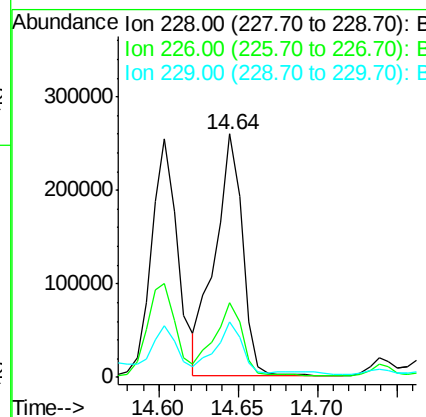
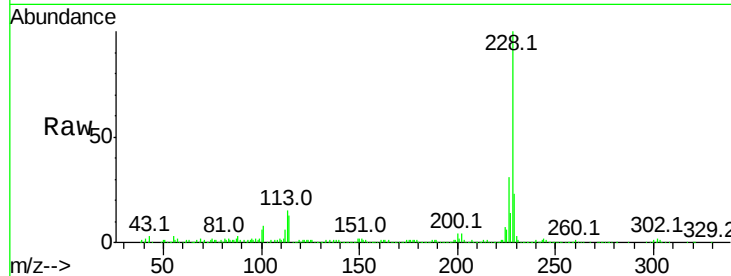




#80
Benzo(a)anthracene
Concen: 16.54 ng
RT: 14.64 min Scan# 2169
Delta R.T. 0.03 min
Lab File: BF094151.D
Acq: 4 Apr 2017 6:37

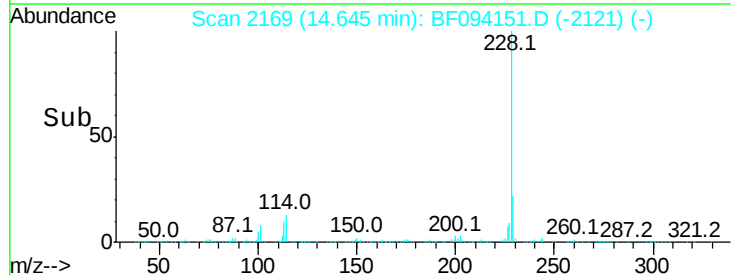
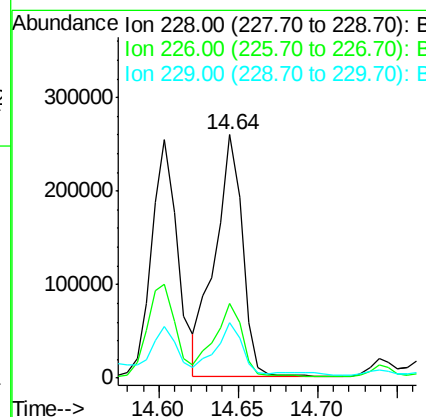
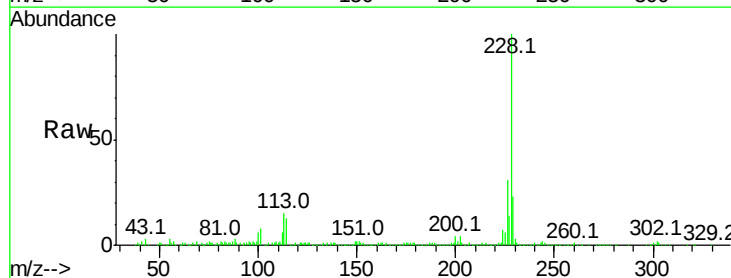
Instrument :
BNA_F
ClientSampleId :
E2-P-O-11-12-BASE

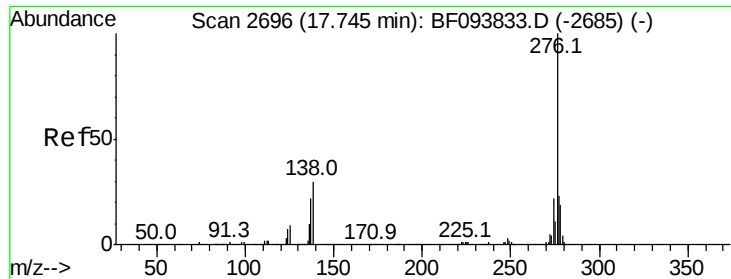
Tot Ion:228 Resp: 313220
Ion Ratio Lower Upper
228 100
226 30.7 22.6 33.8
229 22.6 16.3 24.5



#82
Chrysene
Concen: 17.82 ng
RT: 14.64 min Scan# 2169
Delta R.T. -0.02 min
Lab File: BF094151.D
Acq: 4 Apr 2017 6:37

Tgt Ion:228 Resp: 313220
Ion Ratio Lower Upper
228 100
226 30.7 24.9 37.3
229 22.6 15.8 23.6

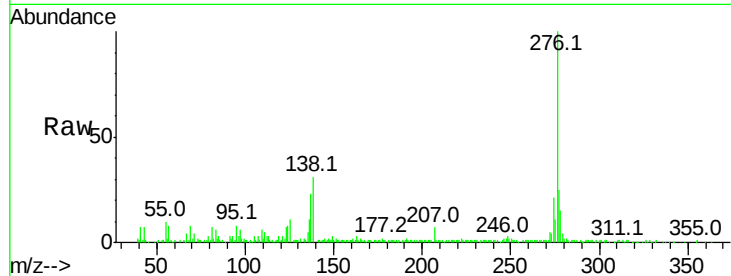




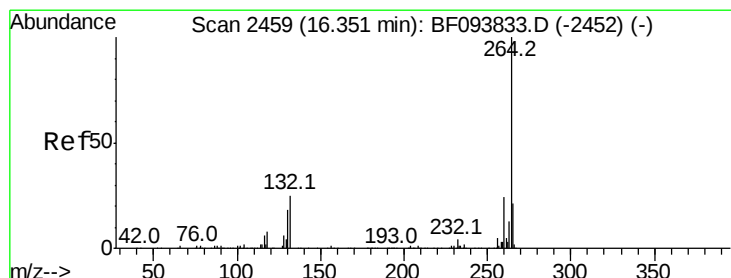
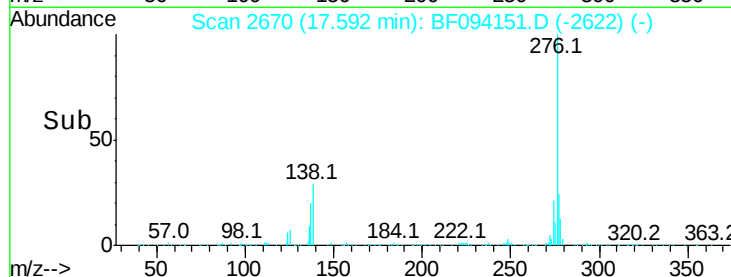
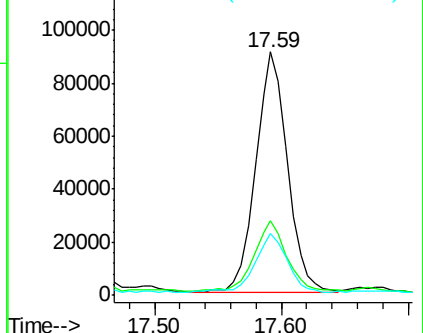
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.46 ng
 RT: 17.59 min Scan# 2670
 Delta R.T. -0.02 min
 Lab File: BF094151.D
 Acq: 4 Apr 2017 6:37

Instrument :
 BNA_F
 ClientSampleId :
 E2-P-O-11-12-BASE

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.2	27.8	41.6
277	25.0	20.2	30.4

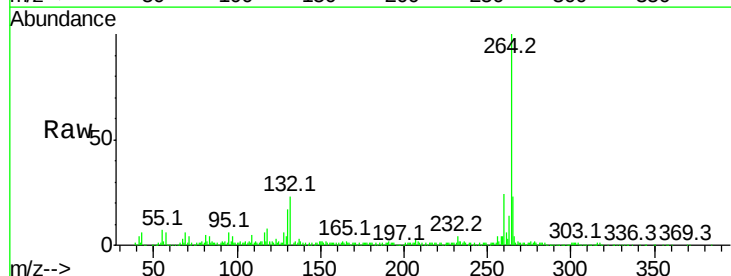


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

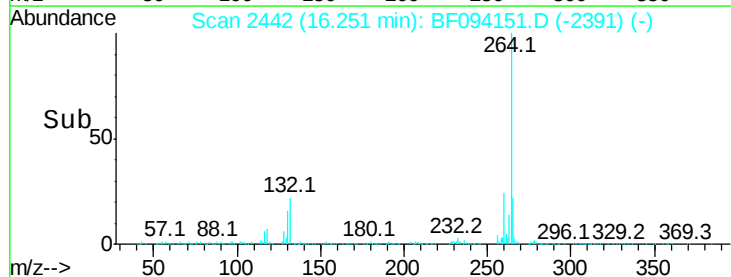
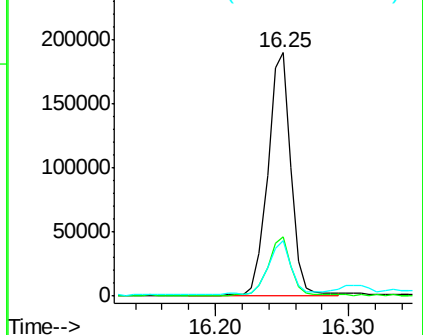


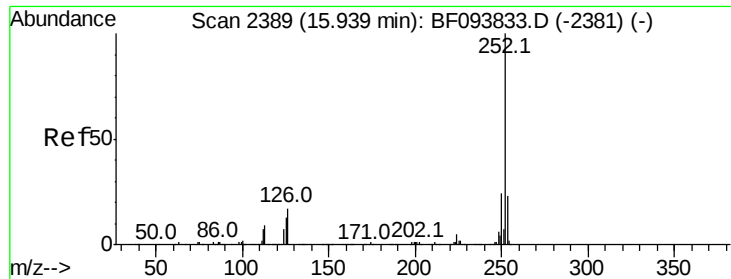
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.25 min Scan# 2442
 Delta R.T. -0.00 min
 Lab File: BF094151.D
 Acq: 4 Apr 2017 6:37

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.5	29.3
265	22.5	17.2	25.8



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: 38.46 ng

RT: 15.84 min Scan# 2372

Delta R.T. -0.01 min

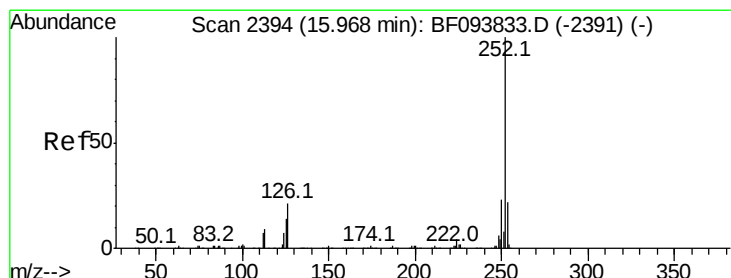
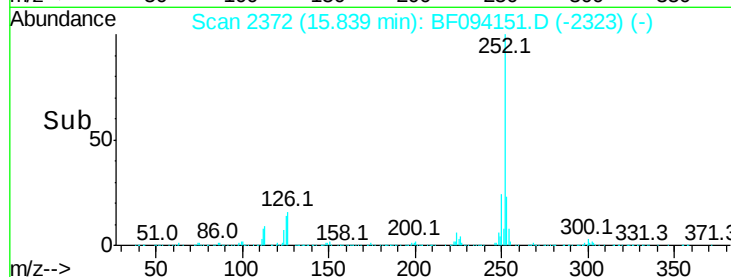
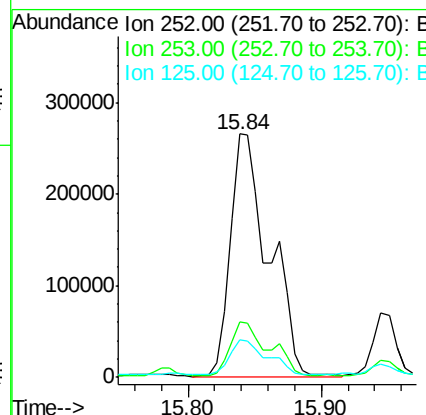
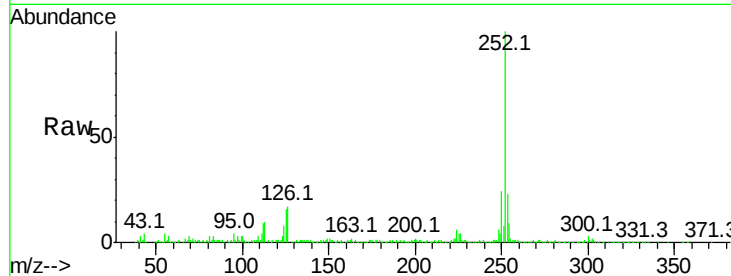
Lab File: BF094151.D

Acq: 4 Apr 2017 6:37

Instrument :
BNA_F
ClientSampleId :
E2-P-O-11-12-BASE

Tot Ion:252 Resp: 536106

Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1
125	15.6	9.8	14.8#



#88

Benzo(k)fluoranthene

Concen: 39.31 ng

RT: 15.84 min Scan# 2372

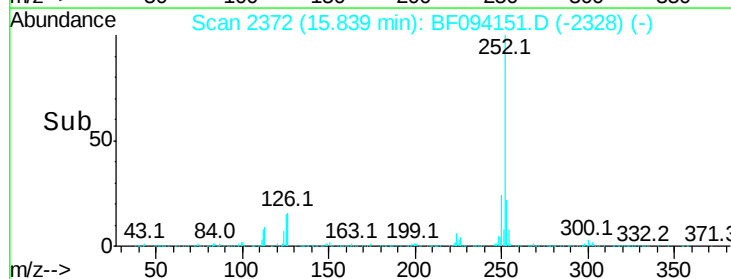
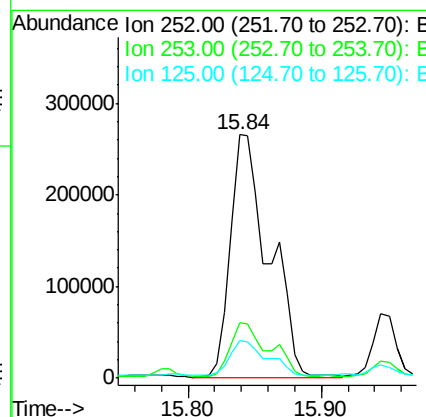
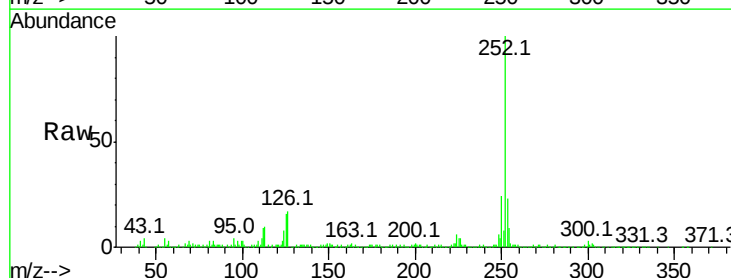
Delta R.T. -0.04 min

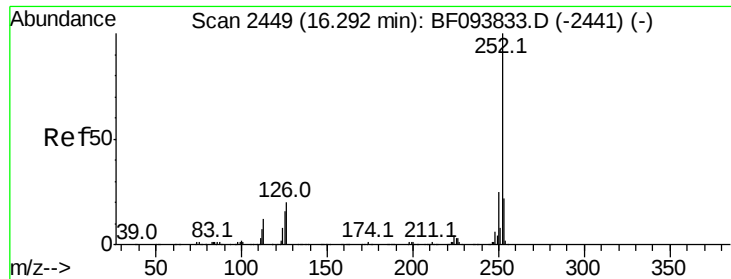
Lab File: BF094151.D

Acq: 4 Apr 2017 6:37

Tgt Ion:252 Resp: 536106

Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.4	27.6
125	15.6	13.1	19.7





#89

Benzo(a)pyrene

Concen: 17.74 ng

RT: 16.19 min Scan# 2431

Delta R.T. -0.01 min

Lab File: BF094151.D

Acq: 4 Apr 2017 6:37

Instrument :

BNA_F

ClientSampleId :

E2-P-O-11-12-BASE

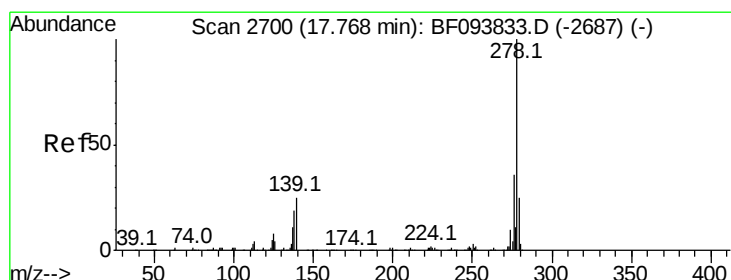
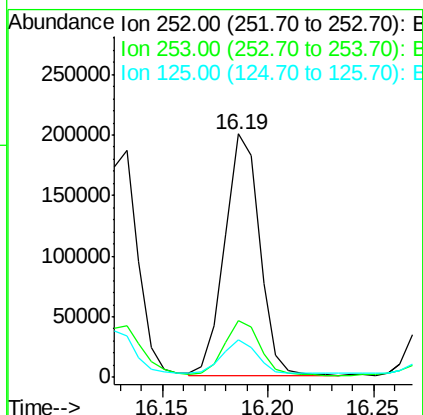
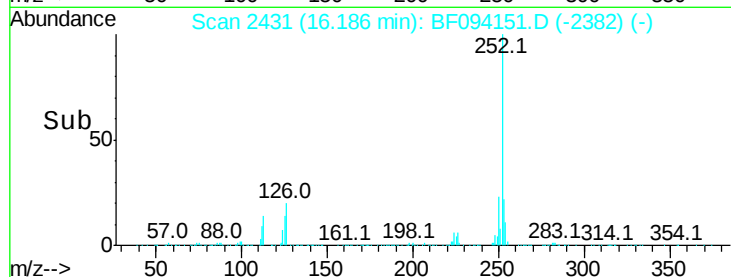
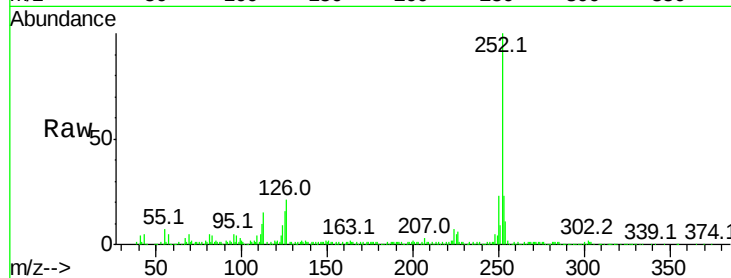
Tot Ion:252 Resp: 227692

Ion Ratio Lower Upper

252 100

253 23.1 17.5 26.3

125 15.5 11.0 16.4



#90

Dibenzo(a,h)anthracene

Concen: 3.34 ng

RT: 17.60 min Scan# 2672

Delta R.T. -0.03 min

Lab File: BF094151.D

Acq: 4 Apr 2017 6:37

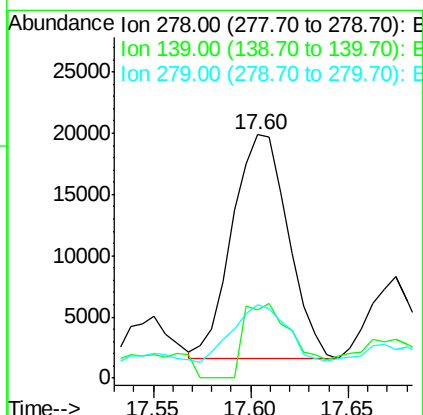
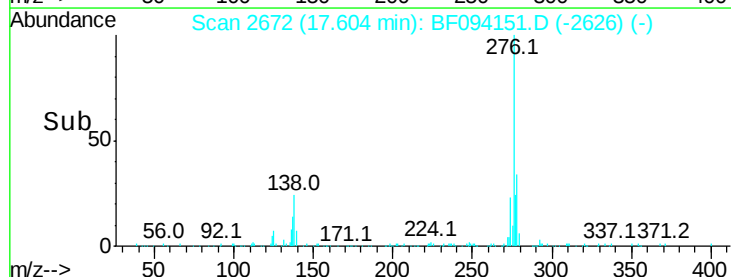
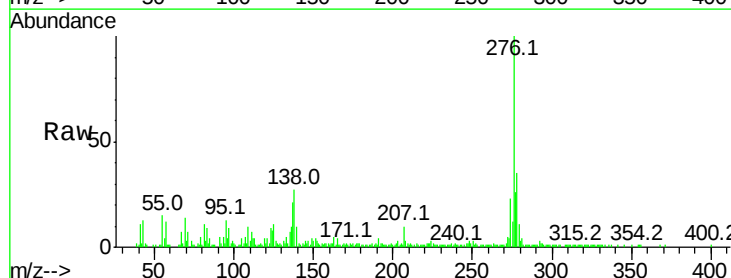
Tgt Ion:278 Resp: 36354

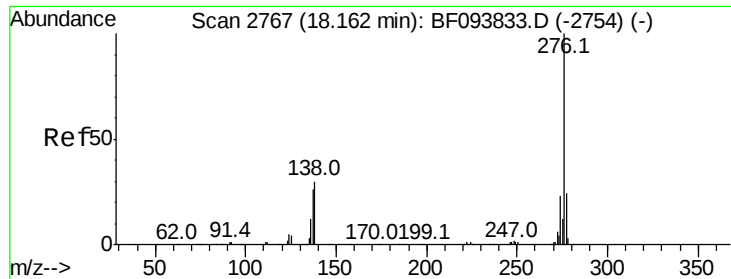
Ion Ratio Lower Upper

278 100

139 27.8 16.6 24.8#

279 29.9 19.3 28.9#





#91

Benzo(a,h,i)perylene

Concen: 15.12 ng

RT: 17.99 min Scan# 2738

Delta R.T. -0.02 min

Lab File: BF094151.D

Acq: 4 Apr 2017 6:37

Instrument :

BNA_F

ClientSampleId :

E2-P-O-11-12-BASE

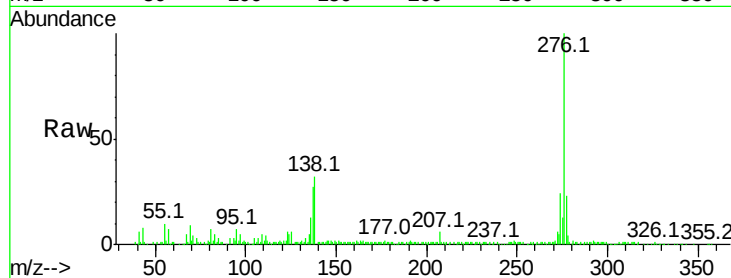
Tot Ion:276 Resp: 165622

Ion Ratio Lower Upper

276 100

277 22.8 18.6 28.0

138 31.8 25.4 38.0



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

