

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042517\
 Data File : BF094635.D
 Acq On : 26 Apr 2017 5:59
 Operator : SJ/MA
 Sample : I2813-03 5X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

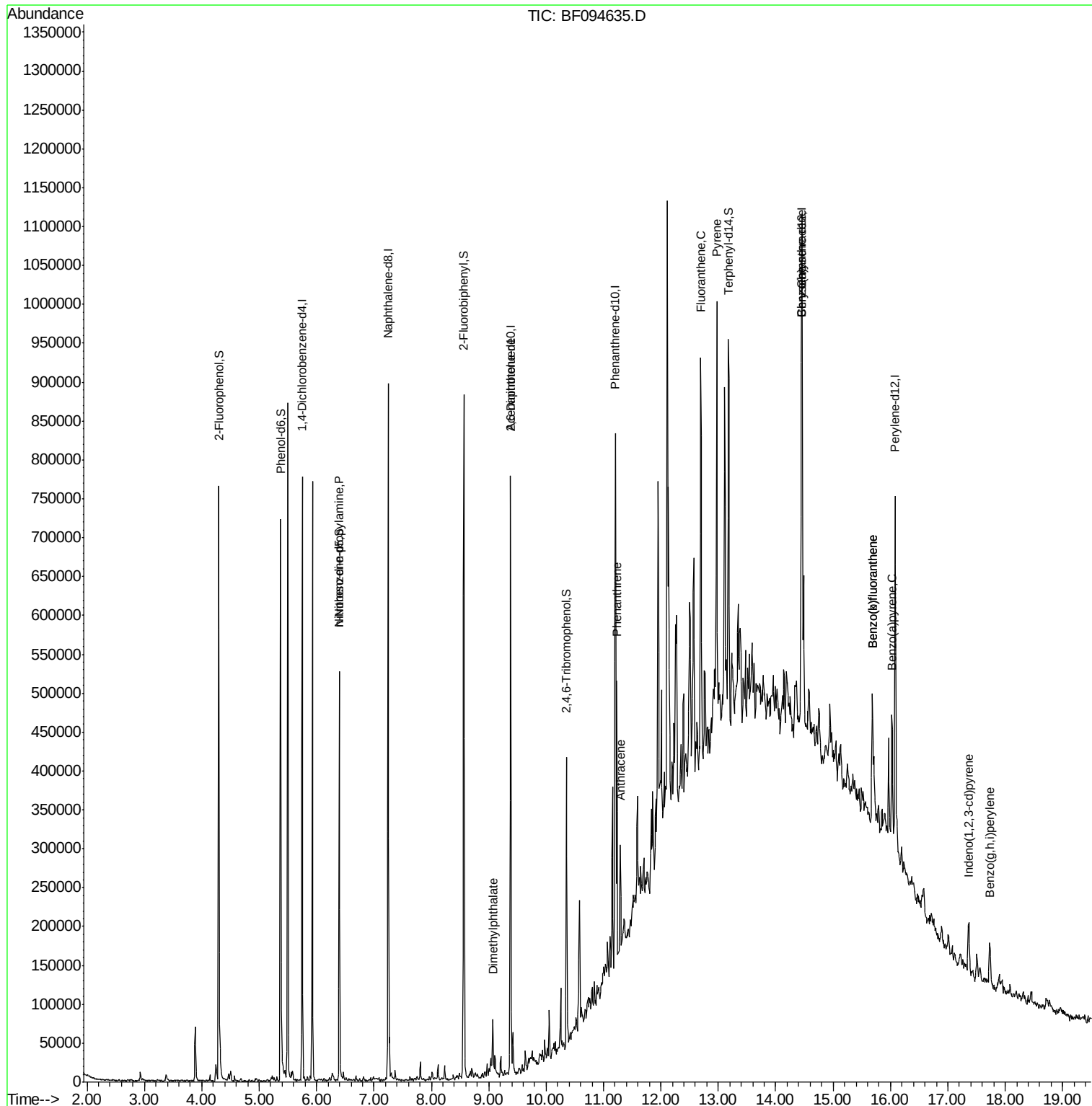
Quant Time: Apr 26 07:33:14 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

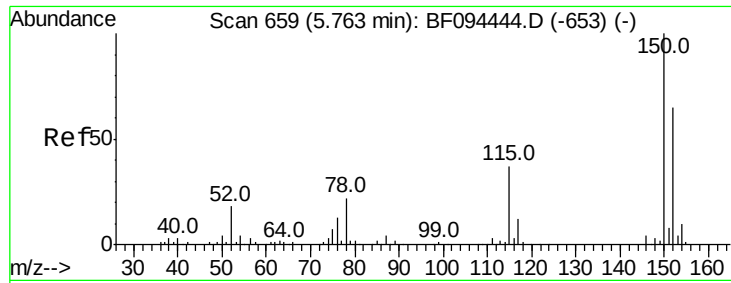
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.75	152	119614	20.00	ng	-0.01
21) Naphthalene-d8	7.25	136	462963	20.00	ng	-0.01
38) Acenaphthene-d10	9.38	164	179016	20.00	ng	-0.02
63) Phenanthrene-d10	11.20	188	275797	20.00	ng	-0.02
75) Chrysene-d12	14.46	240	250125	20.00	ng	0.00
86) Perylene-d12	16.08	264	181232	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.30	112	250838	34.79	ng	0.00
7) Phenol-d6	5.37	99	303507	35.71	ng	-0.02
23) Nitrobenzene-d5	6.40	82	171795	22.91	ng	-0.02
41) 2,4,6-Tribromophenol	10.35	330	41490	29.63	ng	-0.02
44) 2-Fluorobiphenyl	8.57	172	288734	23.73	ng	-0.02
78) Terphenyl-d14	13.18	244	164524	17.58	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	6.40	70	22714	4.03	ng	# 74
49) Dimethylphthalate	9.07	163	32598	2.44	ng	98
50) 2,6-Dinitrotoluene	9.38	165	23307	7.78	ng	# 33
70) Phenanthrene	11.23	178	136750	8.81	ng	96
71) Anthracene	11.30	178	42701	2.66	ng	96
74) Fluoranthene	12.69	202	224808	13.97	ng	99
77) Pyrene	12.97	202	241871	13.84	ng	97
80) Benzo(a)anthracene	14.44	228	99318	6.83	ng	97
82) Chrysene	14.44	228	99318	7.48	ng	98
85) Indeno(1,2,3-cd)pyrene	17.36	276	32975	2.61	ng	91
87) Benzo(b)fluoranthene	15.68	252	115650	10.43	ng	# 93
88) Benzo(k)fluoranthene	15.68	252	115650	11.02	ng	97
89) Benzo(a)pyrene	16.02	252	69232	6.71	ng	# 94
91) Benzo(a,h,i)perylene	17.73	276	39442	4.52	ng	97

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

```
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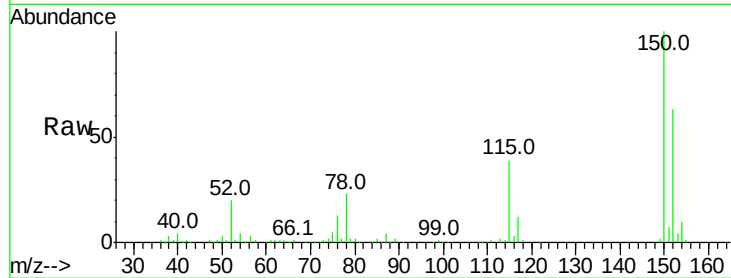


#1

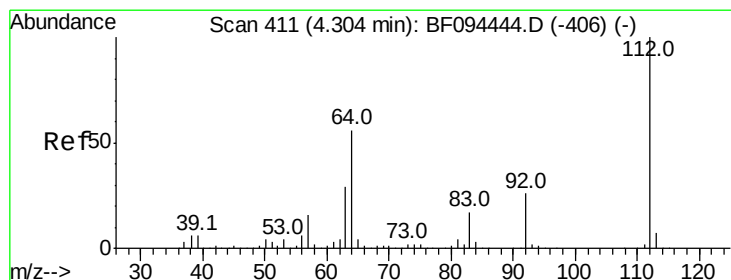
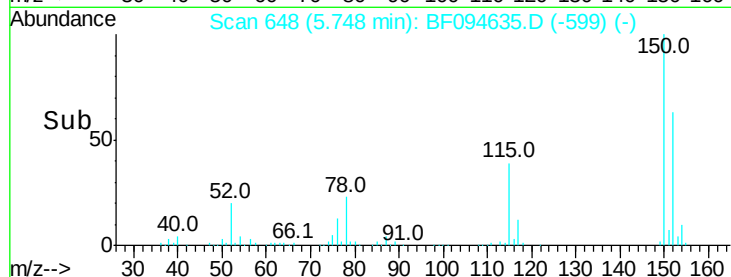
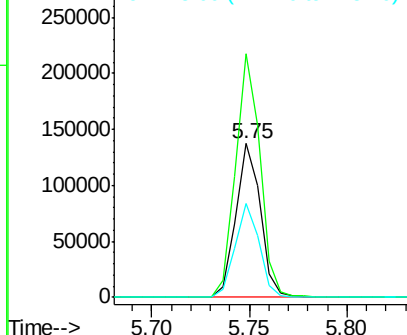
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.75 min Scan# 648
Delta R.T. -0.01 min
Lab File: BF094635.D
Acq: 26 Apr 2017 5:59

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 119614
Ion Ratio Lower Upper
152 100
150 158.3 126.2 189.2
115 61.1 52.2 78.2



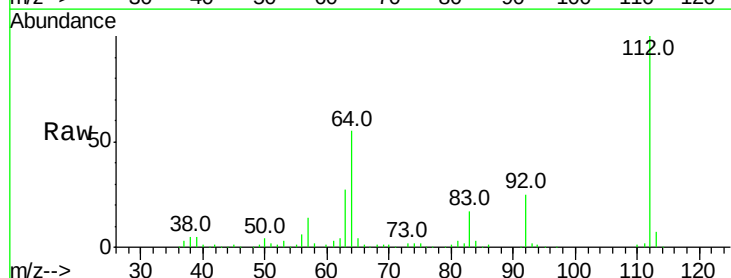
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



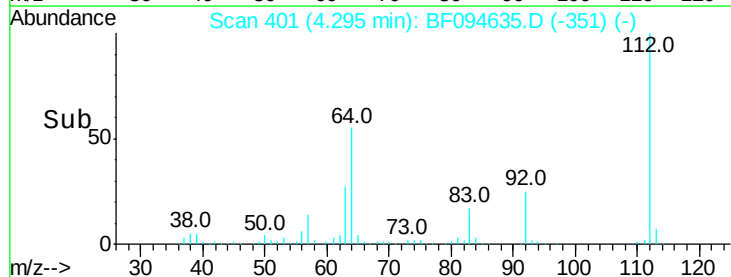
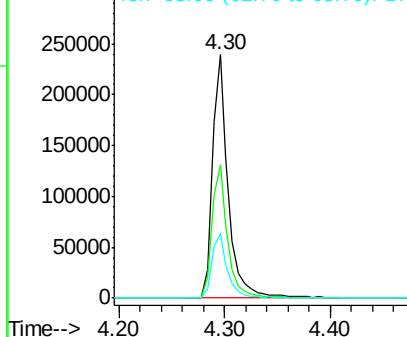
#5

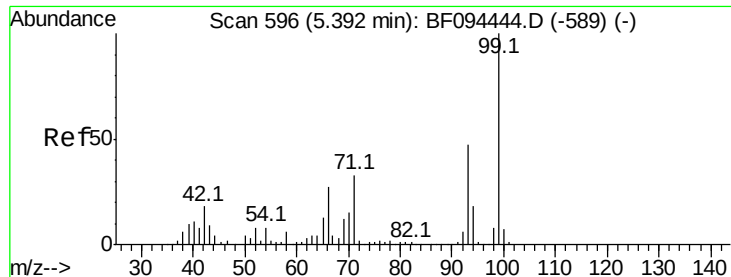
2-Fluorophenol
Concen: 34.79 ng
RT: 4.30 min Scan# 401
Delta R.T. -0.01 min
Lab File: BF094635.D
Acq: 26 Apr 2017 5:59

Tgt Ion:112 Resp: 250838
Ion Ratio Lower Upper
112 100
64 54.9 46.0 69.0
63 26.5 23.4 35.0



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: 35.71 ng

RT: 5.37 min Scan# 584

Delta R.T. -0.02 min

Lab File: BF094635.D

Acq: 26 Apr 2017 5:59

Instrument :

BNA_F

ClientSampleId :

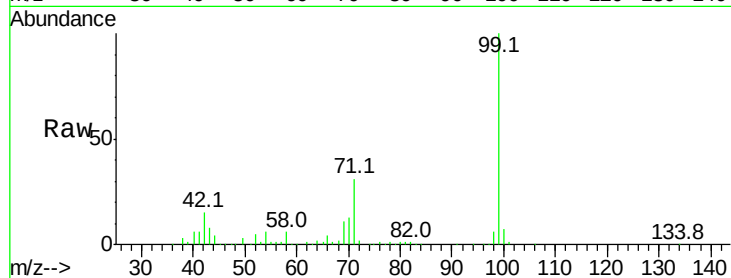
Tot Ion: 99 Resp: 303507

Ion Ratio Lower Upper

99 100

42 15.5 13.5 20.3

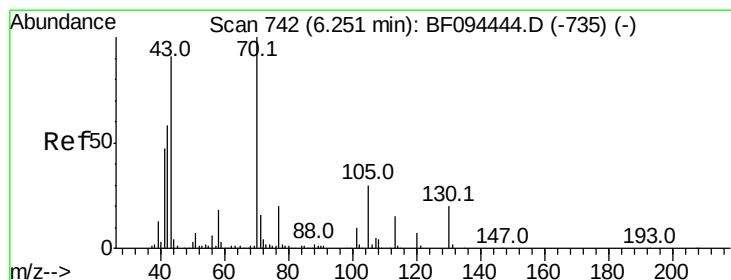
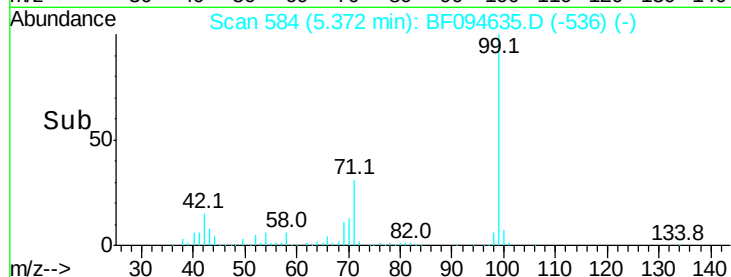
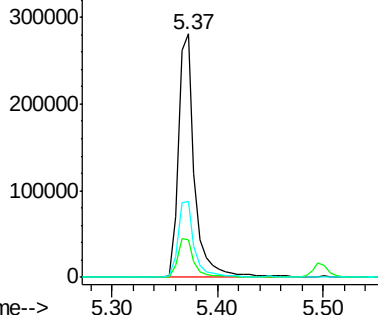
71 30.9 24.5 36.7



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: 4.03 ng

RT: 6.40 min Scan# 758

Delta R.T. 0.14 min

Lab File: BF094635.D

Acq: 26 Apr 2017 5:59

Tgt Ion: 70 Resp: 22714

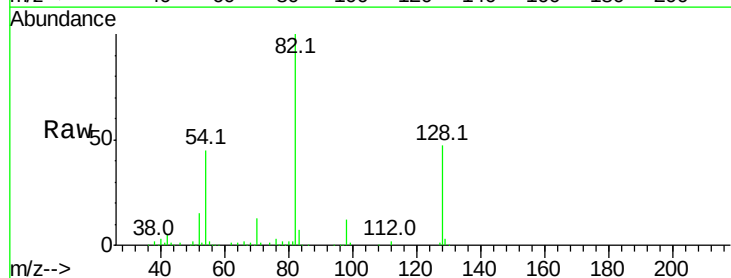
Ion Ratio Lower Upper

70 100

42 42.1 47.2 70.8#

101 0.0 7.2 10.8#

130 2.0 15.9 23.9#

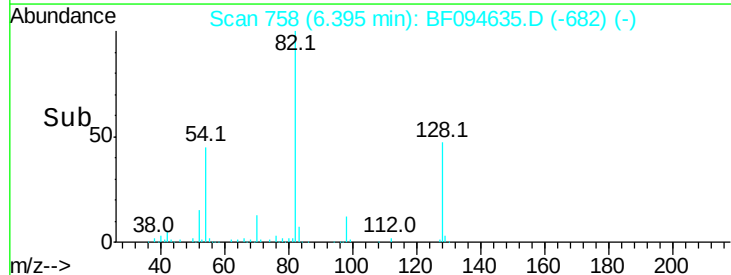
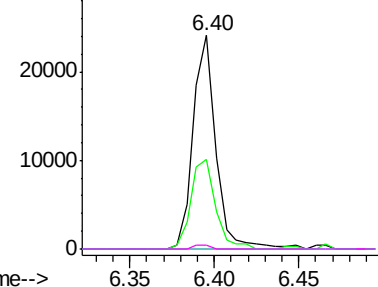


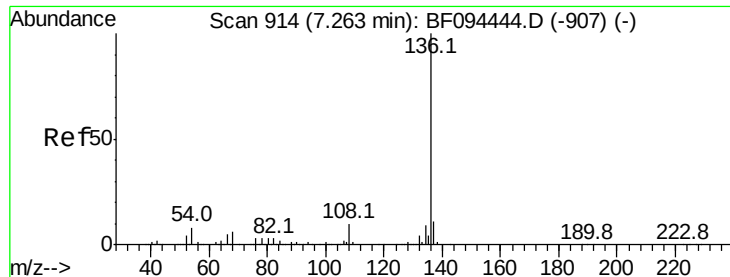
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.25 min Scan# 903

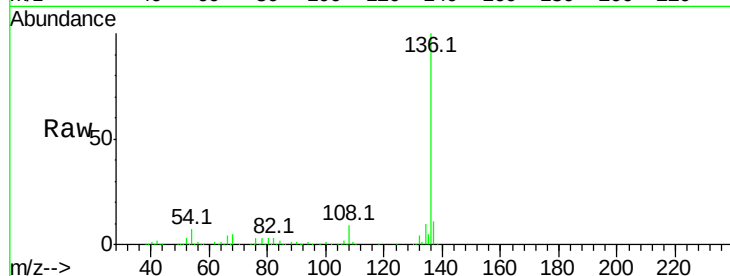
Delta R.T. -0.01 min

Lab File: BF094635.D

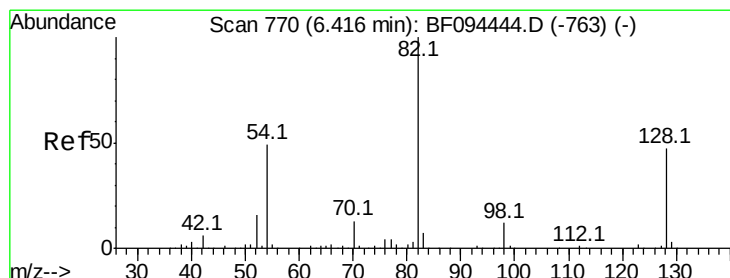
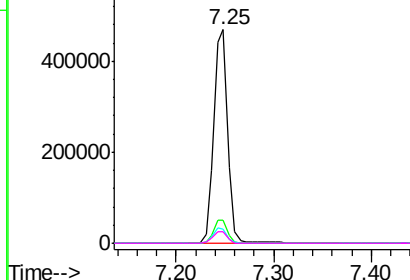
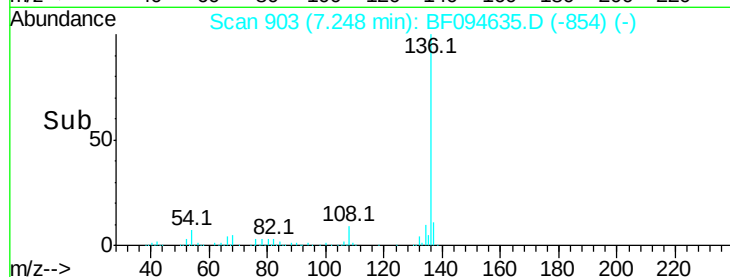
Acq: 26 Apr 2017 5:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	462963
Ion	Ratio	Lower Upper
136	100	
137	10.9	8.5 12.7
54	6.7	4.9 7.3
68	5.3	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: 22.91 ng

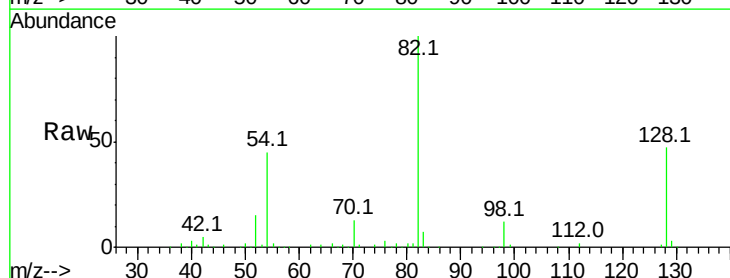
RT: 6.40 min Scan# 758

Delta R.T. -0.02 min

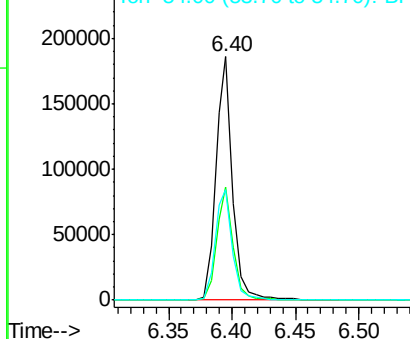
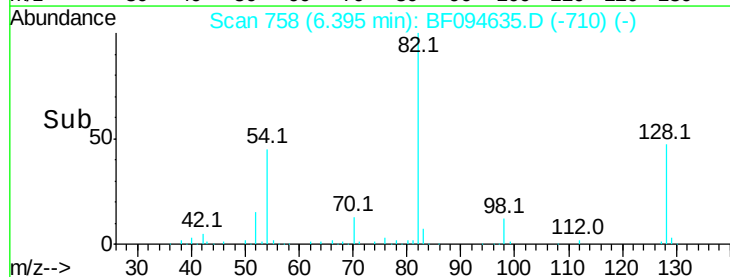
Lab File: BF094635.D

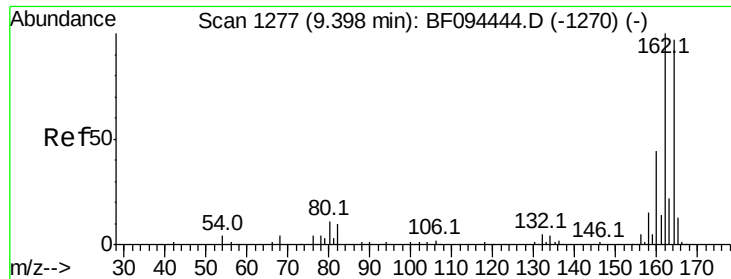
Acq: 26 Apr 2017 5:59

Tgt Ion: 82	Resp:	171795
Ion	Ratio	Lower Upper
82	100	
128	46.6	34.0 51.0
54	45.3	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

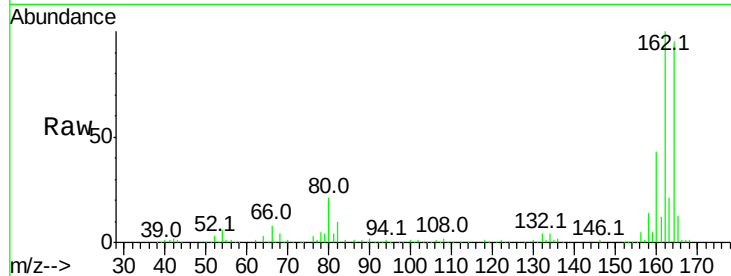




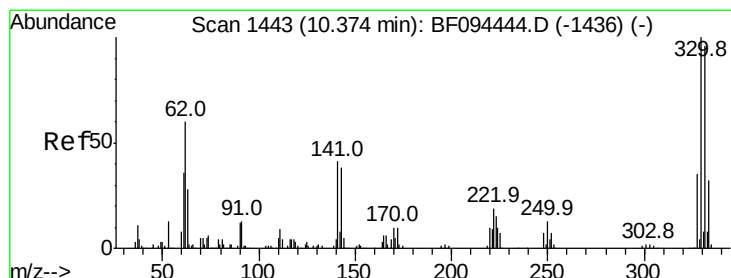
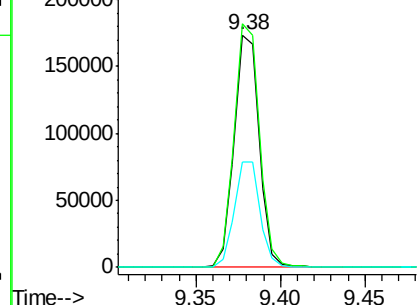
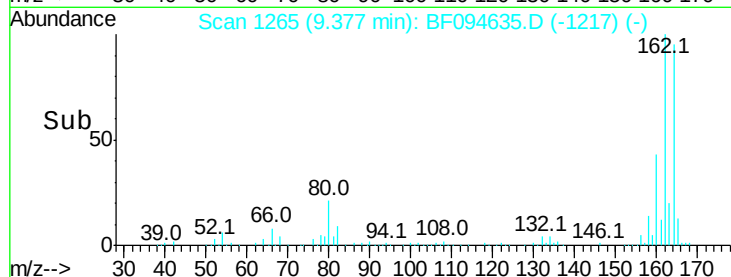
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.38 min Scan# 1265
 Delta R.T. -0.02 min
 Lab File: BF094635.D
 Acq: 26 Apr 2017 5:59

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 179016
 Ion Ratio Lower Upper
 164 100
 162 104.9 82.6 123.8
 160 45.5 36.2 54.2

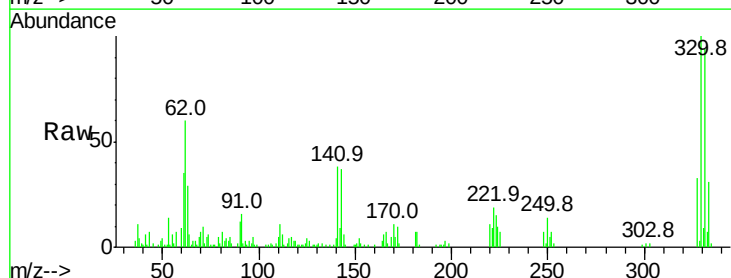


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

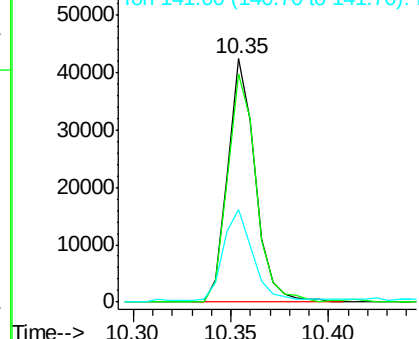
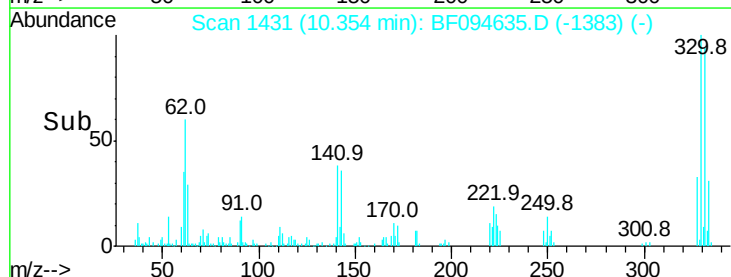


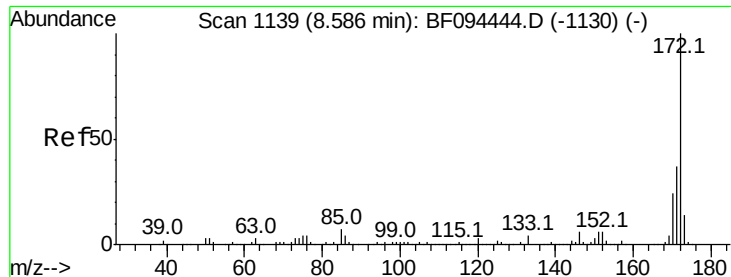
#41
 2,4,6-Tribromophenol
 Concen: 29.63 ng
 RT: 10.35 min Scan# 1431
 Delta R.T. -0.02 min
 Lab File: BF094635.D
 Acq: 26 Apr 2017 5:59

Tgt Ion:330 Resp: 41490
 Ion Ratio Lower Upper
 330 100
 332 96.7 76.6 115.0
 141 39.8 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

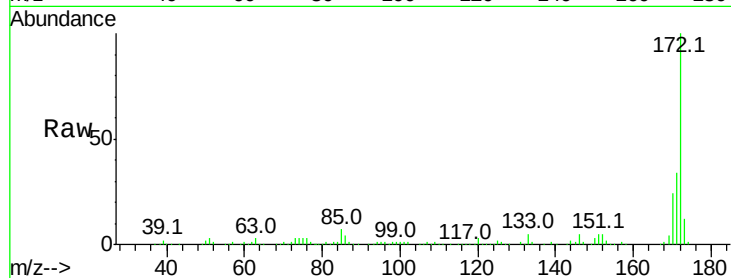




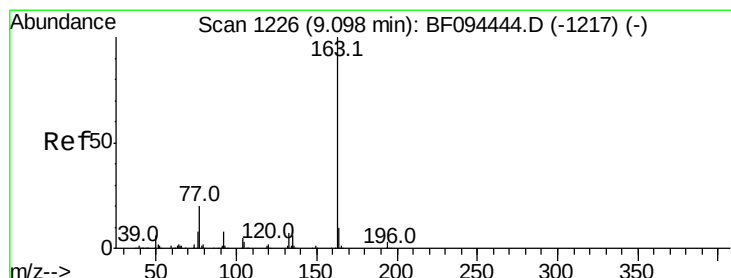
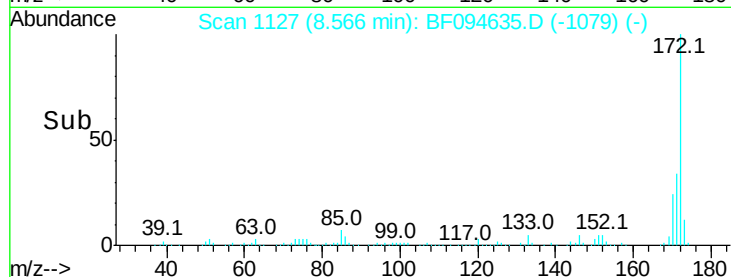
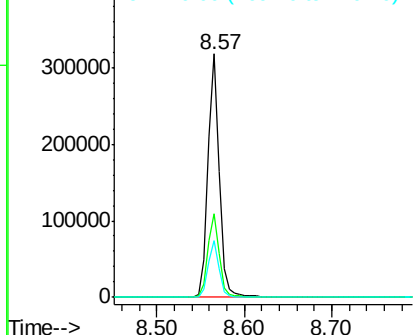
#44
2-Fluorobiphenyl
Concen: 23.73 ng
RT: 8.57 min Scan# 1127
Delta R.T. -0.02 min
Lab File: BF094635.D
Acq: 26 Apr 2017 5:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 288734
Ion Ratio Lower Upper
172 100
171 34.3 29.6 44.4
170 23.6 19.8 29.8

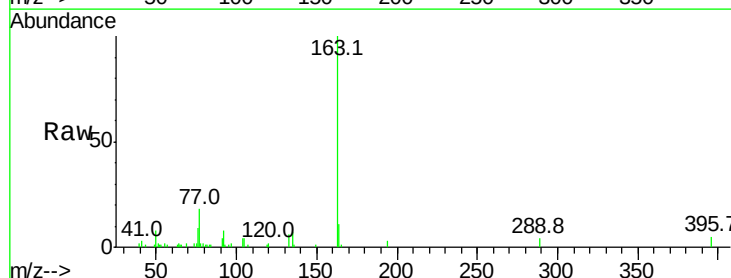


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

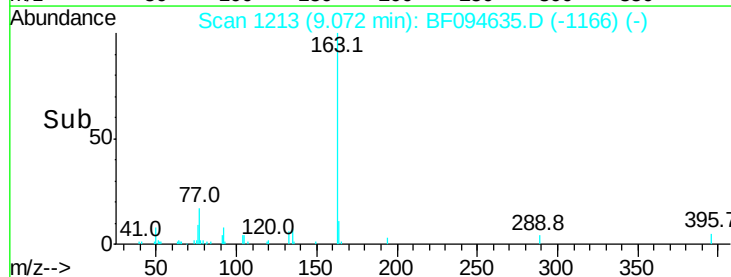
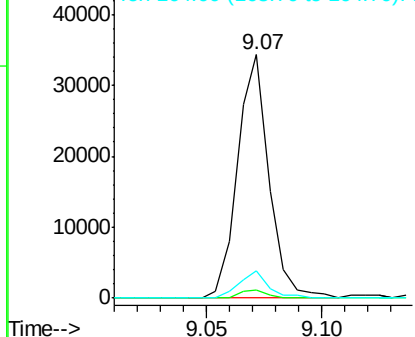


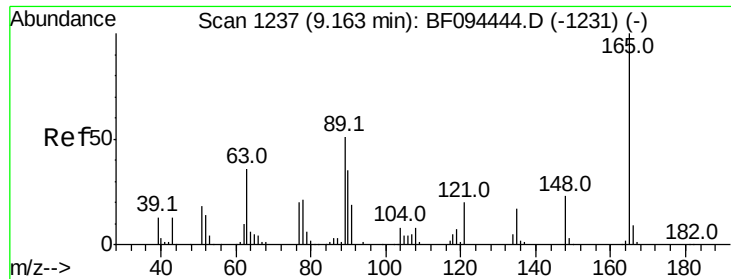
#49
Dimethylphthalate
Concen: 2.44 ng
RT: 9.07 min Scan# 1213
Delta R.T. -0.03 min
Lab File: BF094635.D
Acq: 26 Apr 2017 5:59

Tgt Ion:163 Resp: 32598
Ion Ratio Lower Upper
163 100
194 3.5 2.6 4.0
164 11.2 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





#50

2,6-Dinitrotoluene

Concen: 7.78 ng

RT: 9.38 min Scan# 1265

Delta R.T. 0.21 min

Lab File: BF094635.D

Acq: 26 Apr 2017 5:59

Instrument :

BNA_F

ClientSampleId :

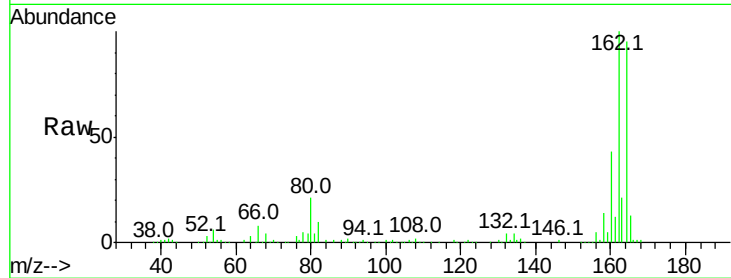
Tot Ion:165 Resp: 23307

Ion Ratio Lower Upper

165 100

63 0.0 34.3 51.5#

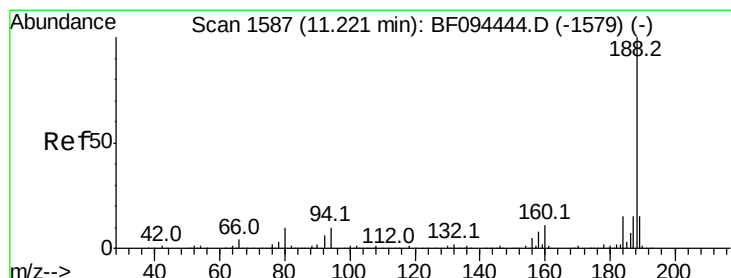
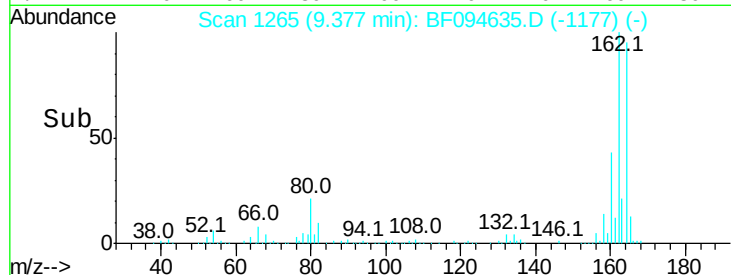
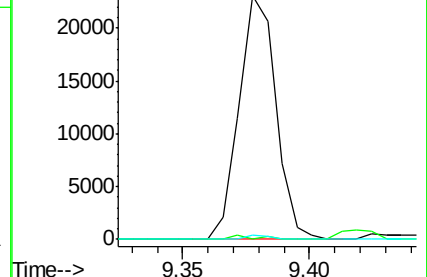
89 1.7 37.1 55.7#



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.20 min Scan# 1575

Delta R.T. -0.02 min

Lab File: BF094635.D

Acq: 26 Apr 2017 5:59

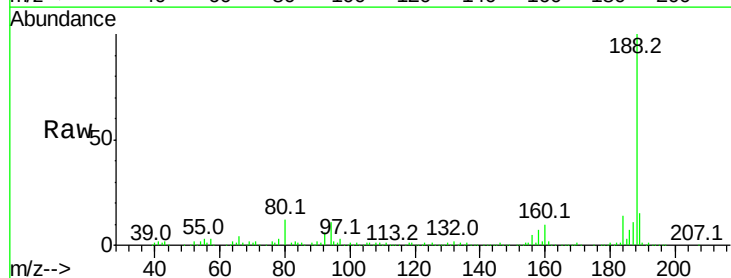
Tgt Ion:188 Resp: 275797

Ion Ratio Lower Upper

188 100

94 10.9 9.4 14.2

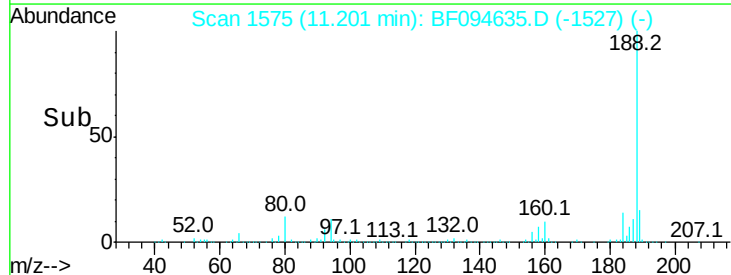
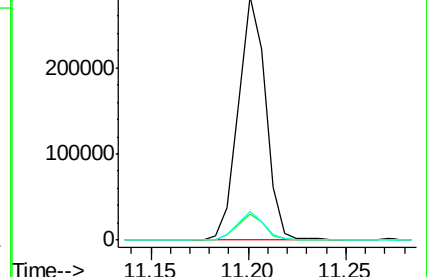
80 11.8 10.2 15.2

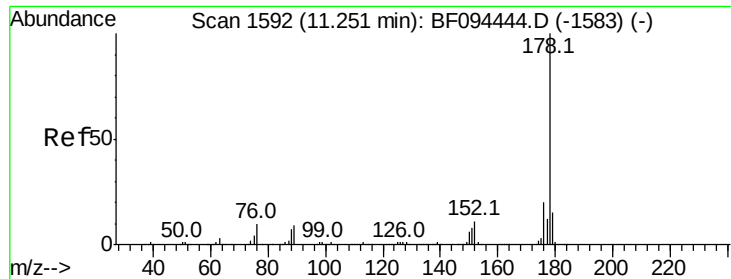


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 8.81 ng

RT: 11.23 min Scan# 1580

Delta R.T. -0.02 min

Lab File: BF094635.D

Acq: 26 Apr 2017 5:59

Instrument :

BNA_F

ClientSampleId :

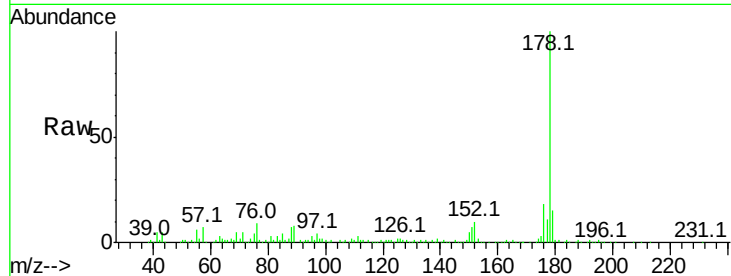
Tot Ion:178 Resp: 136750

Ion Ratio Lower Upper

178 100

176 17.6 16.2 24.4

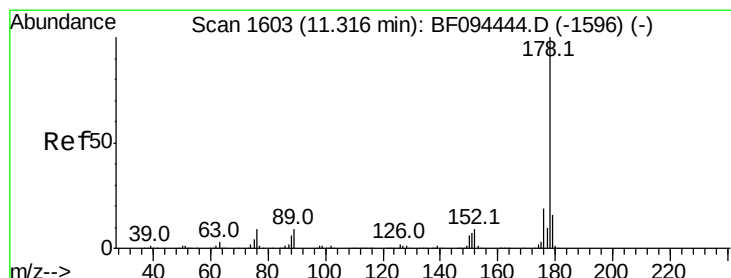
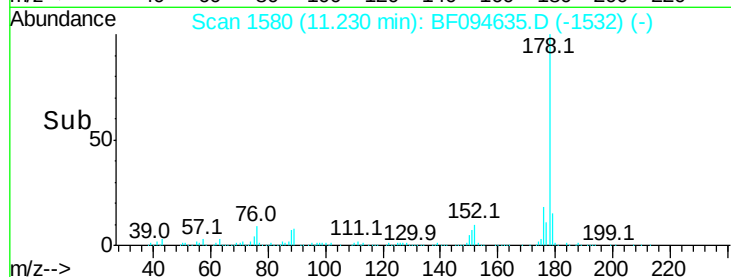
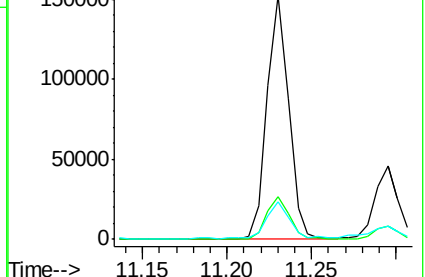
179 15.4 12.6 19.0



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: 2.66 ng

RT: 11.30 min Scan# 1591

Delta R.T. -0.02 min

Lab File: BF094635.D

Acq: 26 Apr 2017 5:59

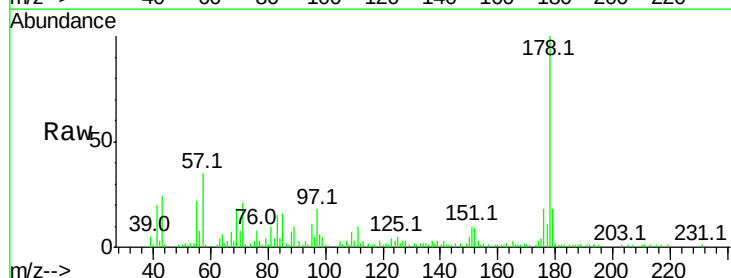
Tgt Ion:178 Resp: 42701

Ion Ratio Lower Upper

178 100

176 18.1 15.8 23.8

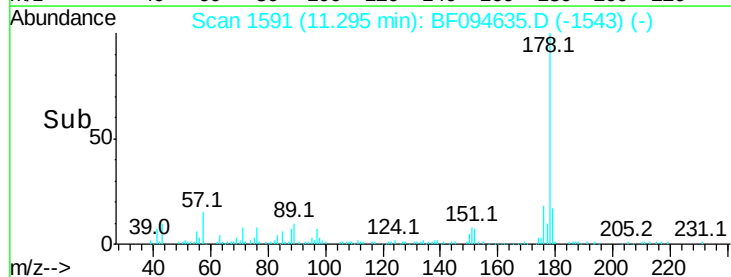
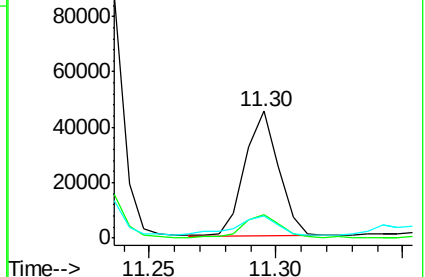
179 17.8 12.7 19.1

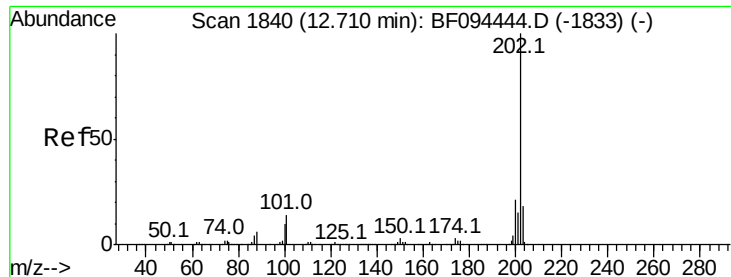


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 13.97 ng

RT: 12.69 min Scan# 1829

Delta R.T. -0.01 min

Lab File: BF094635.D

Acq: 26 Apr 2017 5:59

Instrument :

BNA_F

ClientSampleId :

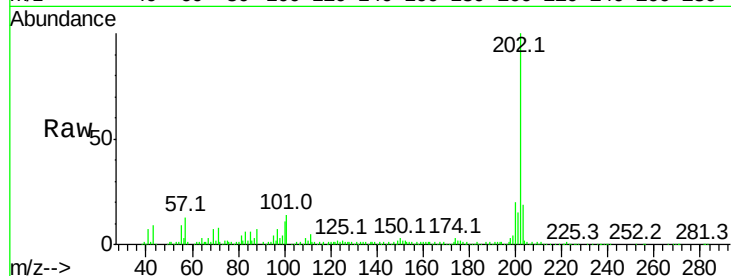
Tot Ion:202 Resp: 224808

Ion Ratio Lower Upper

202 100

101 13.8 0.0 33.2

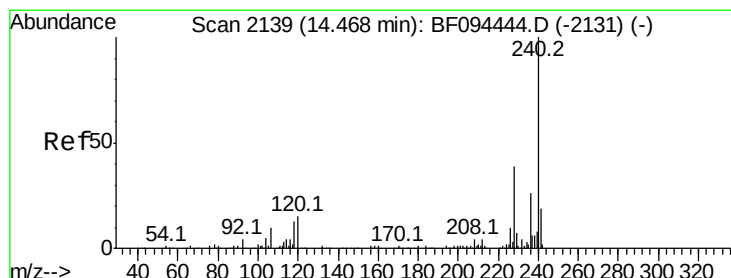
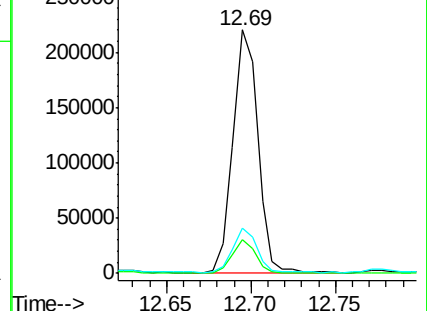
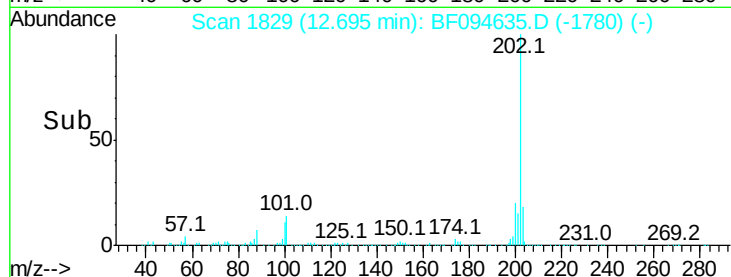
203 18.5 0.0 38.1



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: 14.46 min Scan# 2129

Delta R.T. -0.01 min

Lab File: BF094635.D

Acq: 26 Apr 2017 5:59

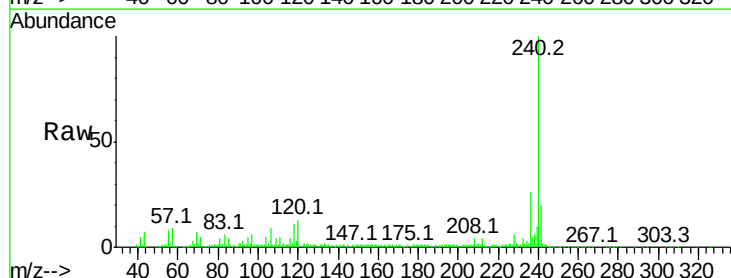
Tgt Ion:240 Resp: 250125

Ion Ratio Lower Upper

240 100

120 13.3 5.8 8.8#

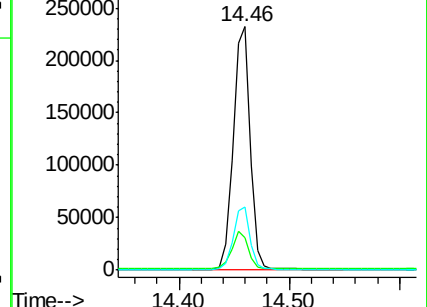
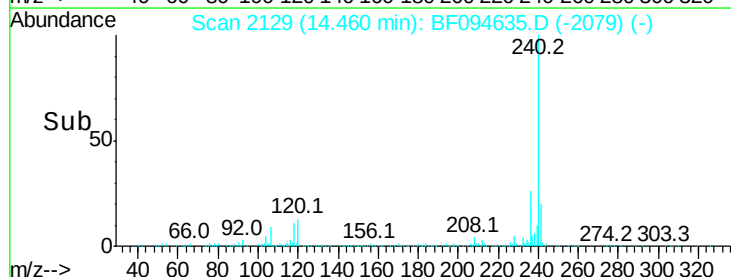
236 25.8 20.5 30.7

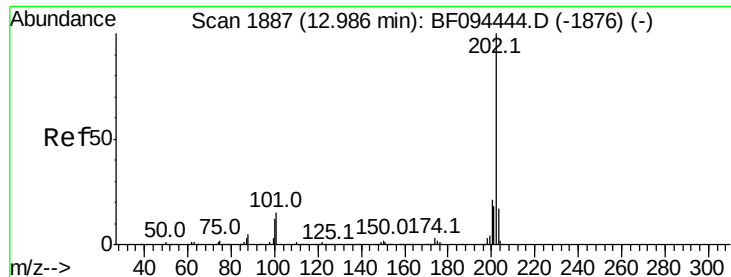


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 13.84 ng

RT: 12.97 min Scan# 1876

Delta R.T. -0.01 min

Lab File: BF094635.D

Acq: 26 Apr 2017 5:59

Instrument :

BNA_F

ClientSampleId :

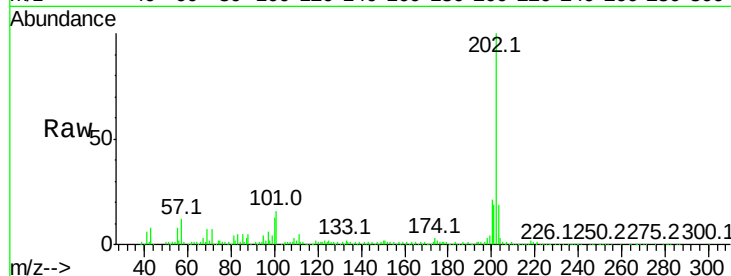
Tot Ion:202 Resp: 241871

Ion Ratio Lower Upper

202 100

200 20.8 17.6 26.4

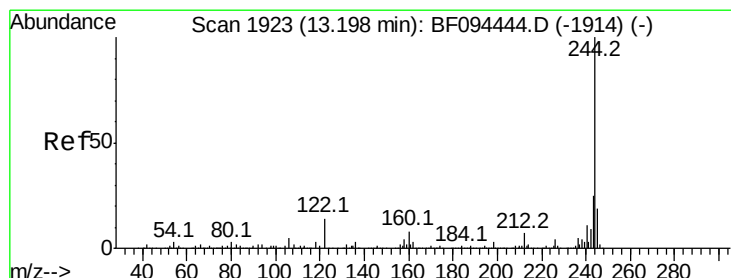
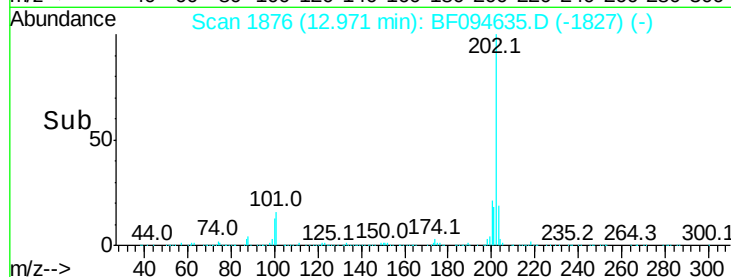
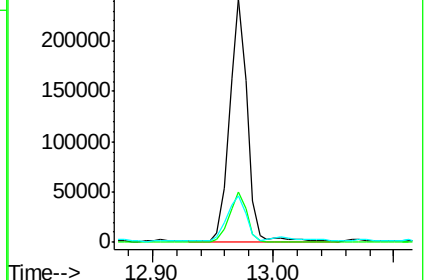
203 19.2 14.4 21.6



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: 17.58 ng

RT: 13.18 min Scan# 1911

Delta R.T. -0.02 min

Lab File: BF094635.D

Acq: 26 Apr 2017 5:59

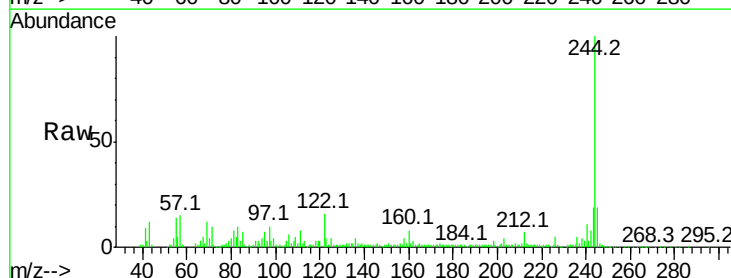
Tgt Ion:244 Resp: 164524

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

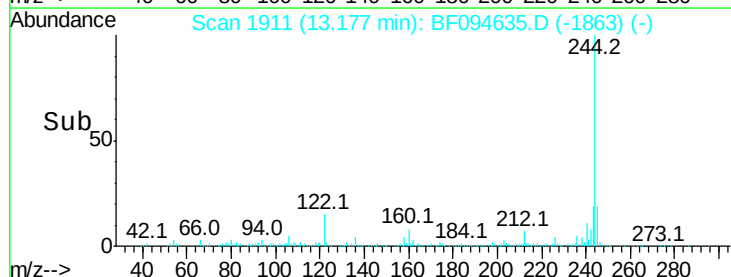
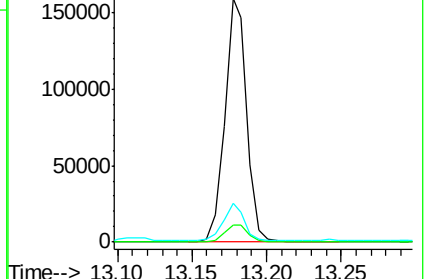
122 16.0 10.3 15.5#

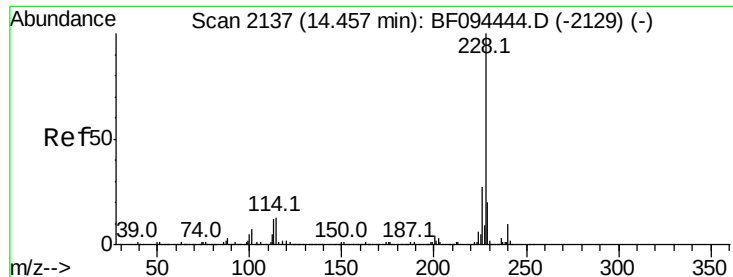


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

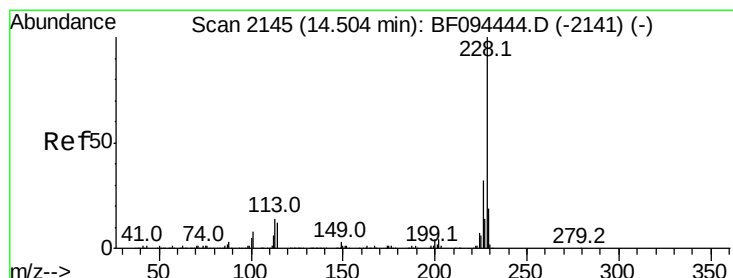
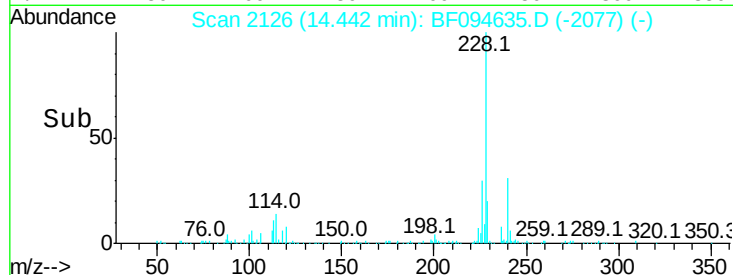
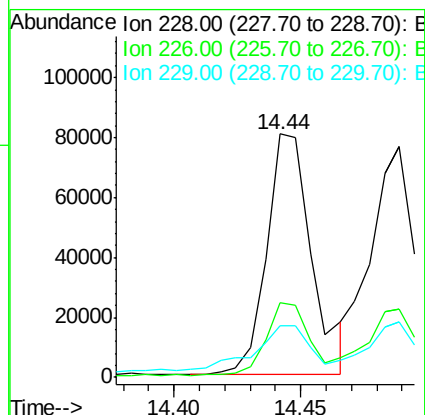
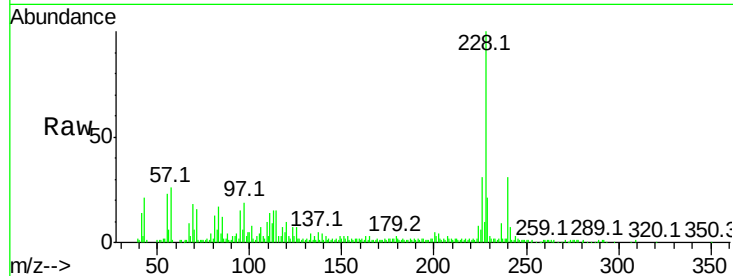




#80
Benzo(a)anthracene
Concen: 6.83 ng
RT: 14.44 min Scan# 2126
Delta R.T. -0.01 min
Lab File: BF094635.D
Acq: 26 Apr 2017 5:59

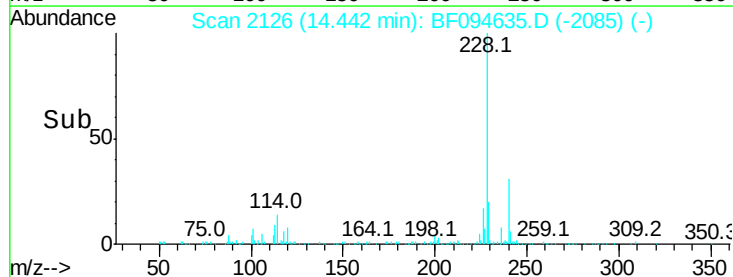
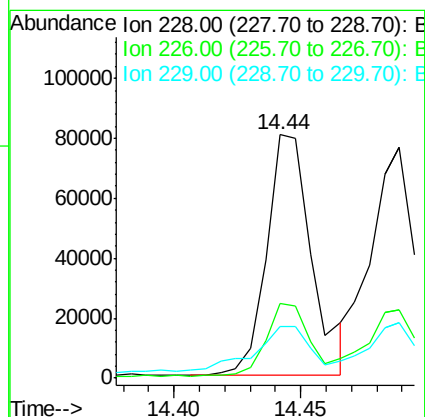
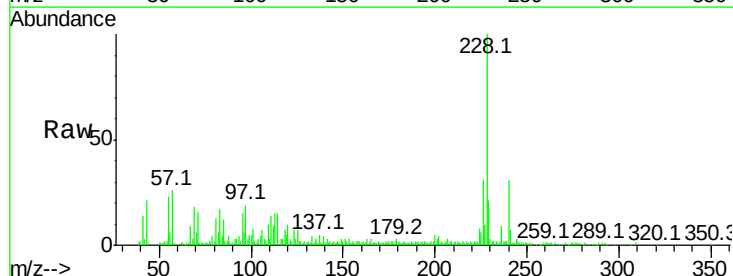
Instrument :
BNA_F
ClientSampled :

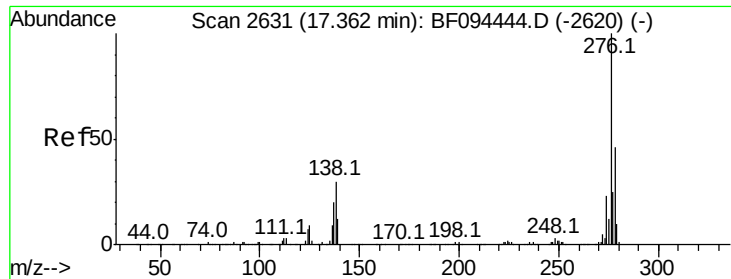
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	22.6	33.8
229	21.0	16.3	24.5



#82
Chrysene
Concen: 7.48 ng
RT: 14.44 min Scan# 2126
Delta R.T. -0.06 min
Lab File: BF094635.D
Acq: 26 Apr 2017 5:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.9	37.3
229	21.0	15.8	23.6

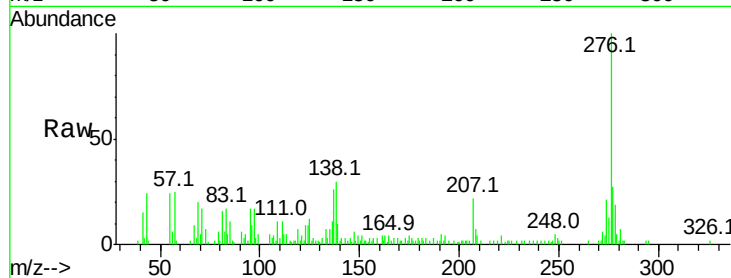




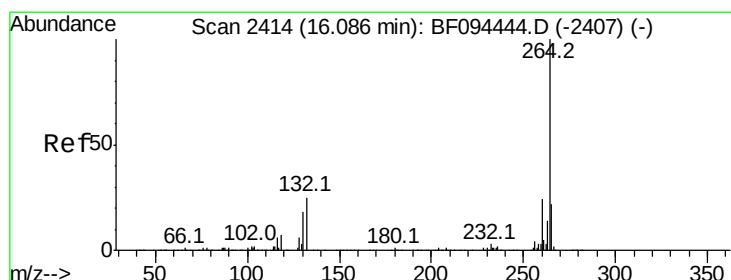
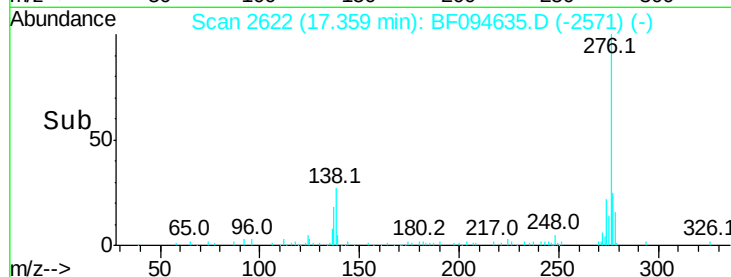
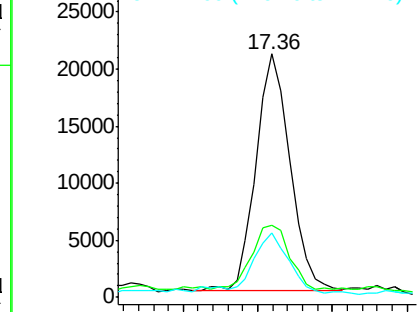
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.61 ng
 RT: 17.36 min Scan# 2622
 Delta R.T. -0.00 min
 Lab File: BF094635.D
 Acq: 26 Apr 2017 5:59

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.0	27.8	41.6
277	29.9	20.2	30.4

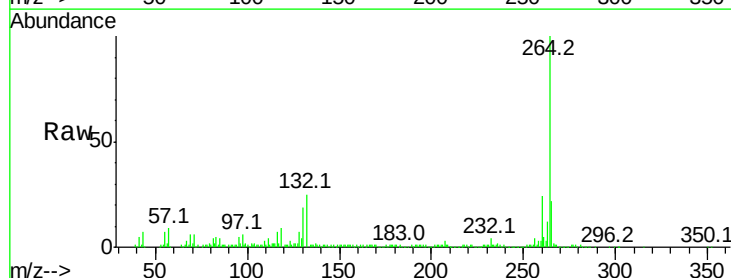


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

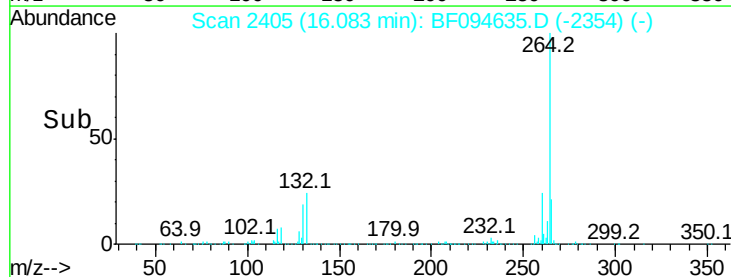
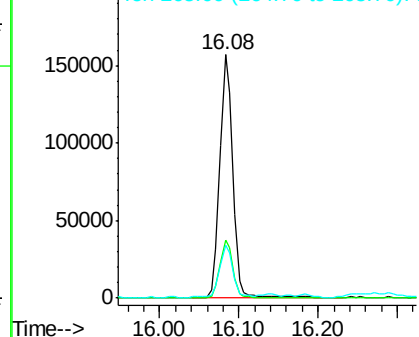


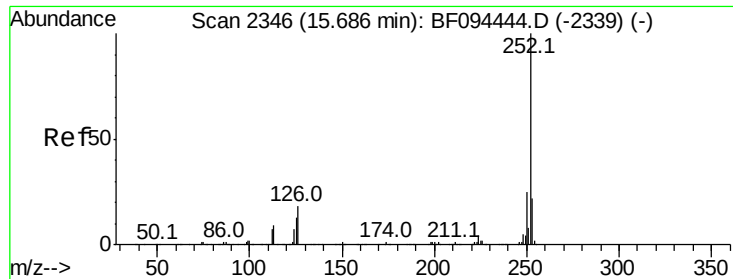
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.08 min Scan# 2405
 Delta R.T. -0.00 min
 Lab File: BF094635.D
 Acq: 26 Apr 2017 5:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	21.8	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: 10.43 ng

RT: 15.68 min Scan# 2337

Delta R.T. -0.00 min

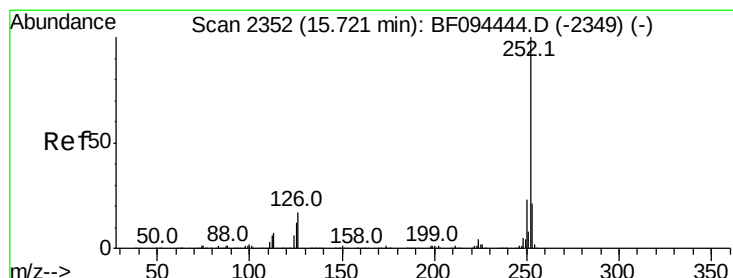
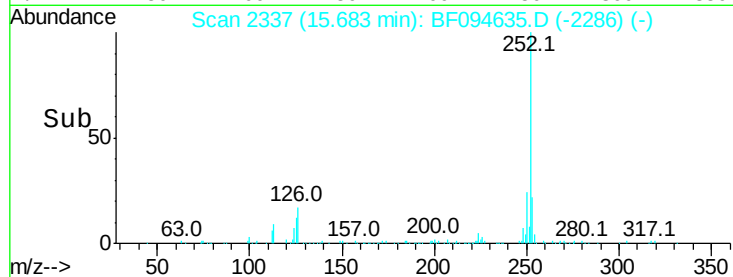
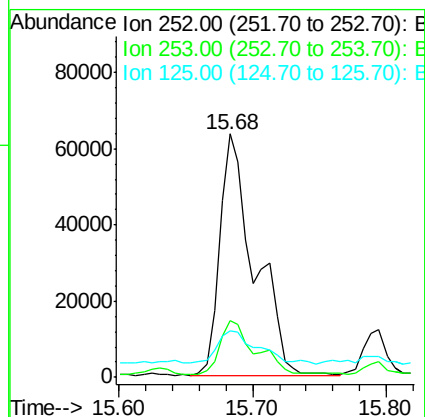
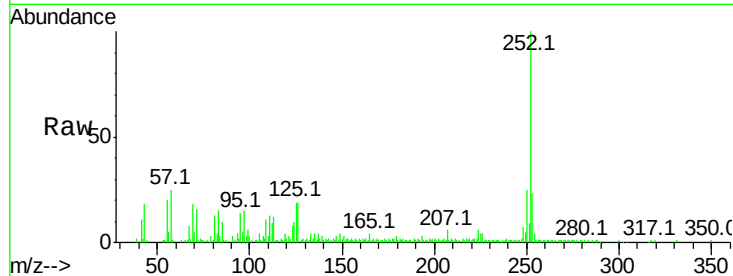
Lab File: BF094635.D

Acq: 26 Apr 2017 5:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 115650

Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	19.1	9.8	14.8#



#88

Benzo(k)fluoranthene

Concen: 11.02 ng

RT: 15.68 min Scan# 2337

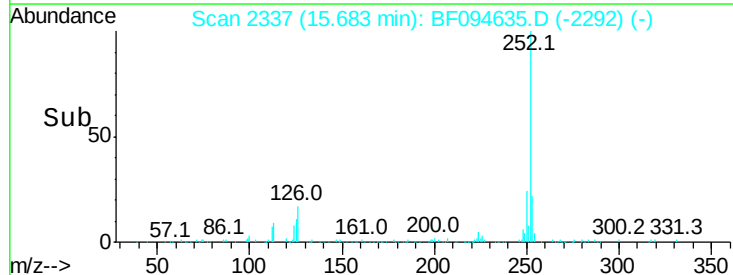
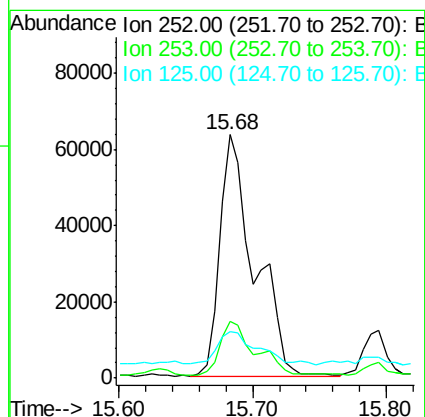
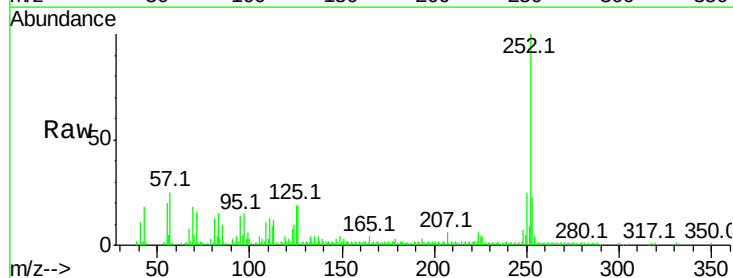
Delta R.T. -0.04 min

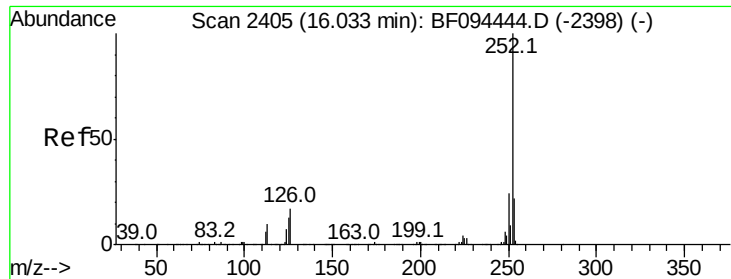
Lab File: BF094635.D

Acq: 26 Apr 2017 5:59

Tgt Ion:252 Resp: 115650

Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.4	27.6
125	19.1	13.1	19.7

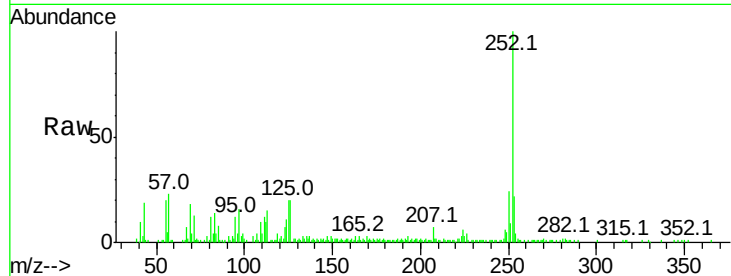




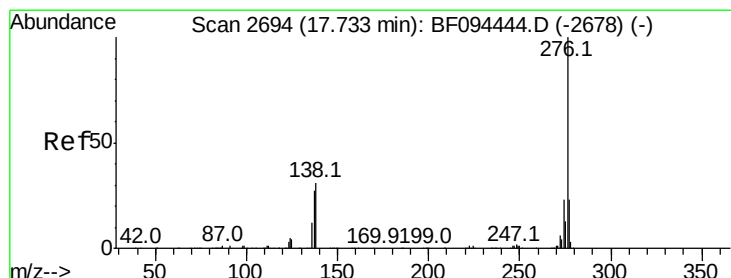
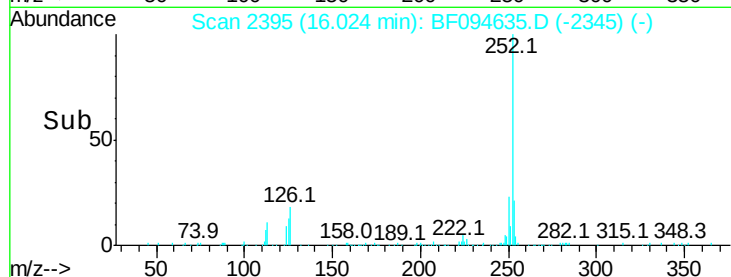
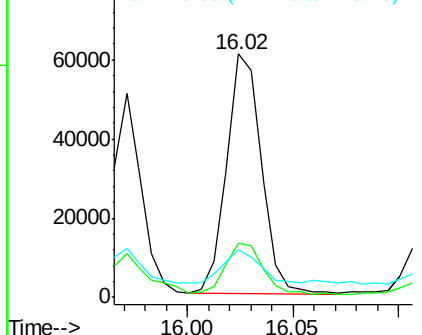
#89
Benzo(a)pyrene
Concen: 6.71 ng
RT: 16.02 min Scan# 2395
Delta R.T. -0.01 min
Lab File: BF094635.D
Acq: 26 Apr 2017 5:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 69232
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 19.6 11.0 16.4#

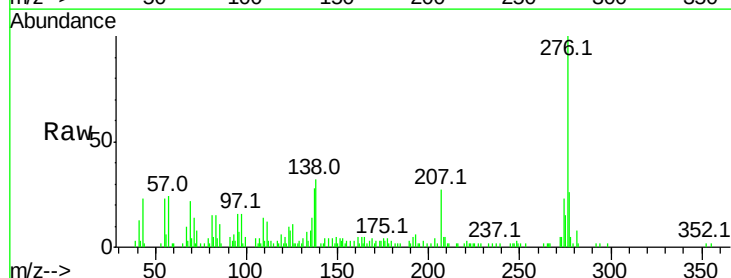


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 4.52 ng
RT: 17.73 min Scan# 2685
Delta R.T. -0.00 min
Lab File: BF094635.D
Acq: 26 Apr 2017 5:59

Tgt Ion:276 Resp: 39442
Ion Ratio Lower Upper
276 100
277 25.7 18.6 28.0
138 32.3 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

