

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060717\
 Data File : BF095771.D
 Acq On : 8 Jun 2017 5:23
 Operator : SJ/MA
 Sample : I3469-12
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 08 07:36:57 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 05 16:15:31 2017
 Response via : Initial Calibration

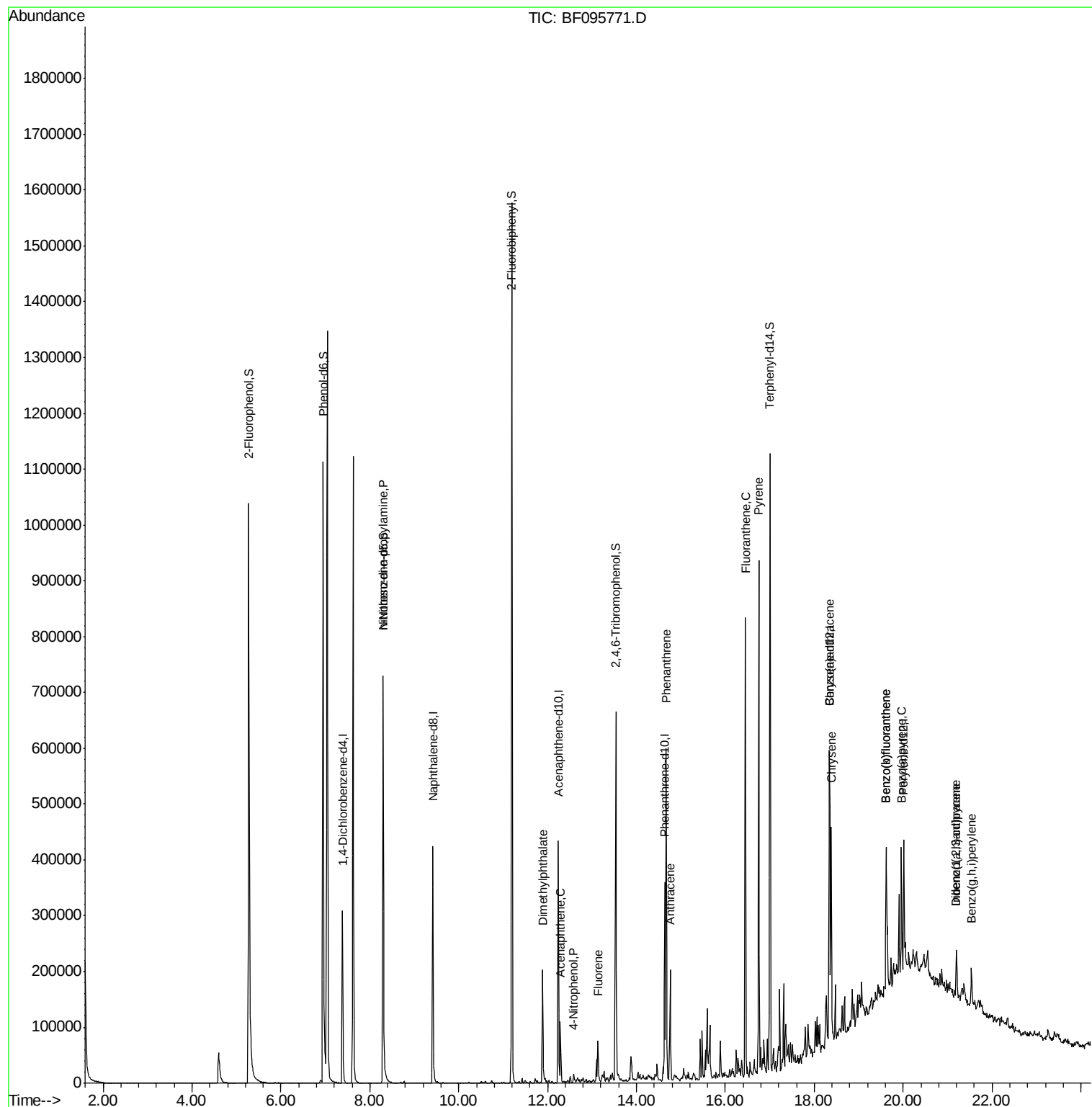
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.39	152	73928	20.00	ng	-0.01
21) Naphthalene-d8	9.42	136	289216	20.00	ng	-0.02
38) Acenaphthene-d10	12.24	164	115512	20.00	ng	-0.02
63) Phenanthrene-d10	14.63	188	171387	20.00	ng	-0.01
75) Chrysene-d12	18.35	240	137817	20.00	ng	0.00
86) Perylene-d12	20.01	264	96646	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	571165	123.11	ng	-0.01
7) Phenol-d6	6.95	99	682109	122.81	ng	-0.01
23) Nitrobenzene-d5	8.30	82	382214	82.07	ng	-0.02
41) 2,4,6-Tribromophenol	13.53	330	105563	103.29	ng	-0.02
44) 2-Fluorobiphenyl	11.20	172	708935	85.41	ng	-0.02
78) Terphenyl-d14	17.00	244	431160	77.64	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	8.30	70	48498	13.78	ng	# 72
49) Dimethylphthalate	11.89	163	117903	13.44	ng	97
51) Acenaphthene	12.29	154	28493	3.88	ng	99
55) 4-Nitrophenol	12.59	139	4244	7.70	ng	# 25
57) Fluorene	13.13	166	27481	3.05	ng	96
70) Phenanthrene	14.67	178	317049	32.06	ng	98
71) Anthracene	14.76	178	111544	10.80	ng	98
74) Fluoranthene	16.45	202	418807	42.79	ng	99
77) Pyrene	16.75	202	365836	35.58	ng	# 93
80) Benzo(a)anthracene	18.34	228	167741	20.93	ng	99
82) Chrysene	18.38	228	155011	19.36	ng	96
85) Indeno(1,2,3-cd)pyrene	21.20	276	43144	6.30	ng	93
87) Benzo(b)fluoranthene	19.61	252	185231	30.61	ng	# 96
88) Benzo(k)fluoranthene	19.61	252	185231	32.02	ng	98
89) Benzo(a)pyrene	19.96	252	97385	17.51	ng	# 94
90) Dibenzo(a,h)anthracene	21.20	278	13240	2.81	ng	# 82
91) Benzo(g,h,i)perylene	21.54	276	41605	8.65	ng	# 92

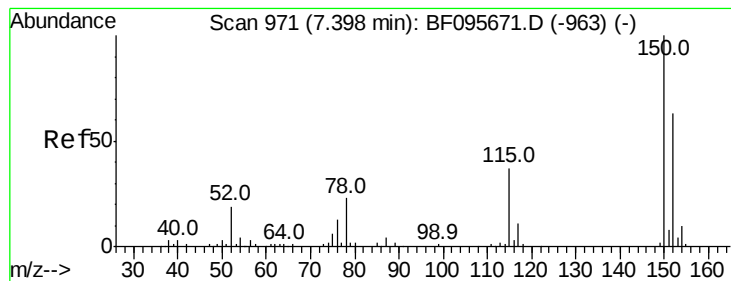
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.39 min Scan# 986

Delta R.T. -0.01 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

Instrument :

BNA_F

ClientSampled :

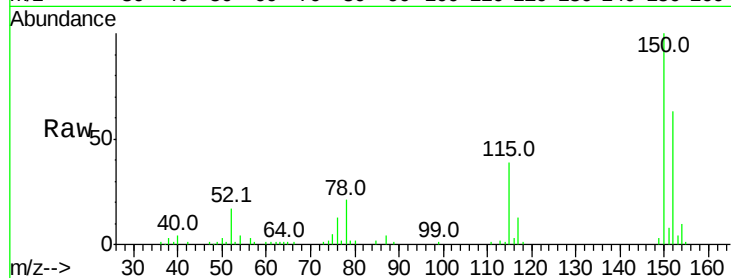
Tot Ion:152 Resp: 73928

Ion Ratio Lower Upper

152 100

150 159.4 126.2 189.2

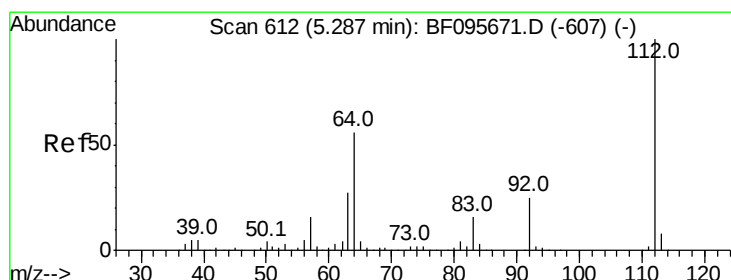
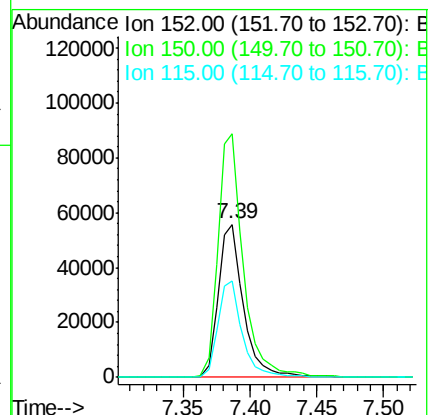
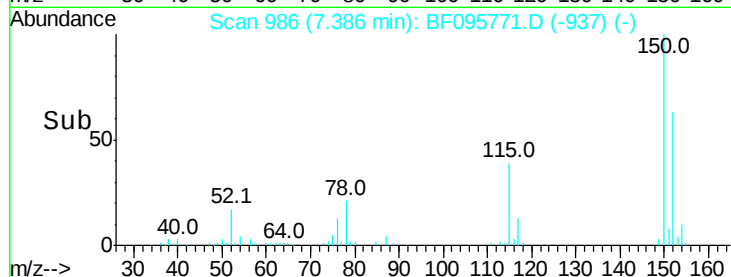
115 62.9 52.2 78.2



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: 123.11 ng

RT: 5.27 min Scan# 627

Delta R.T. -0.01 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

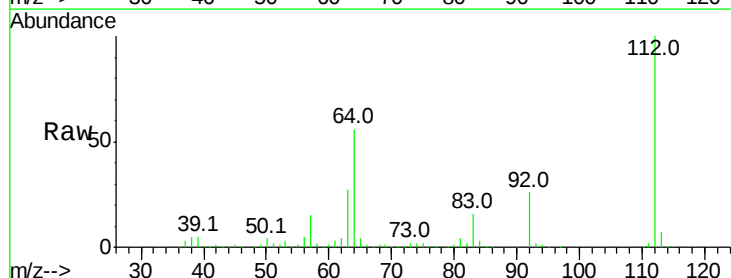
Tgt Ion:112 Resp: 571165

Ion Ratio Lower Upper

112 100

64 55.6 46.0 69.0

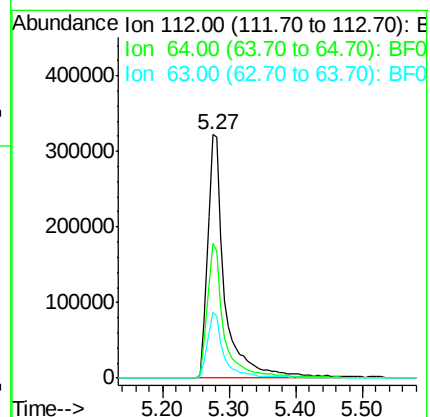
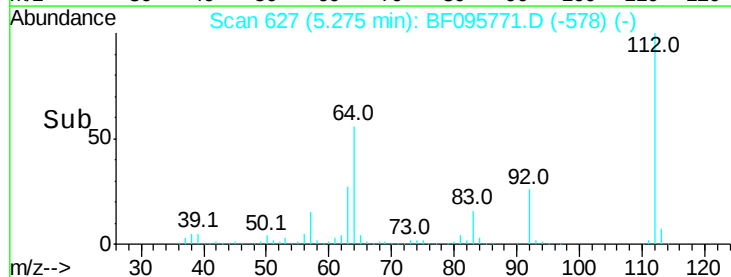
63 26.8 23.4 35.0



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: 122.81 ng

RT: 6.95 min Scan# 911

Delta R.T. -0.01 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

Instrument :

BNA_F

ClientSampled :

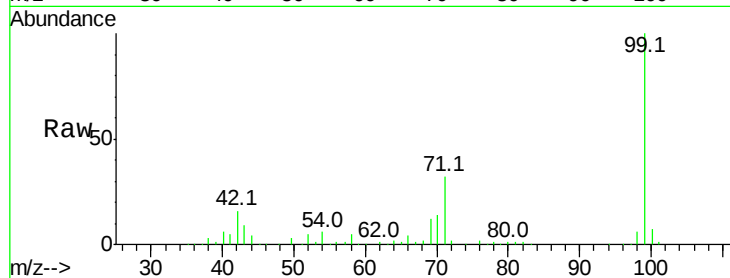
Tot Ion: 99 Resp: 682109

Ion Ratio Lower Upper

99 100

42 16.4 13.5 20.3

71 31.9 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

500000

400000

300000

200000

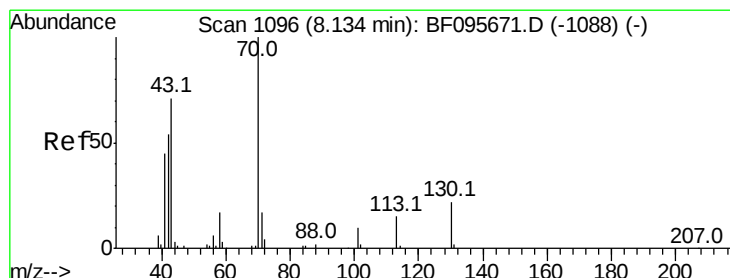
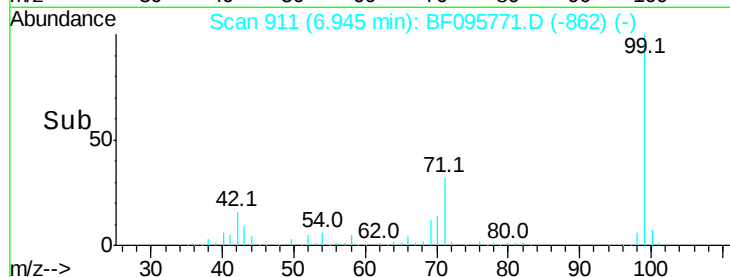
100000

0

6.95

6.80 6.90 7.00 7.10 7.20

Time-->



#19

n-Nitroso-di-n-propylamine

Concen: 13.78 ng

RT: 8.30 min Scan# 1142

Delta R.T. 0.17 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

Tgt Ion: 70 Resp: 48498

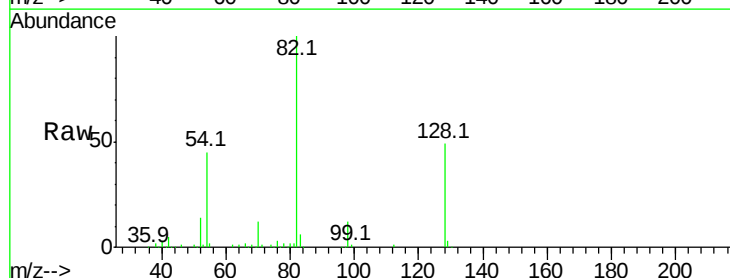
Ion Ratio Lower Upper

70 100

42 40.5 47.2 70.8#

101 0.0 7.2 10.8#

130 2.4 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

50000

40000

30000

20000

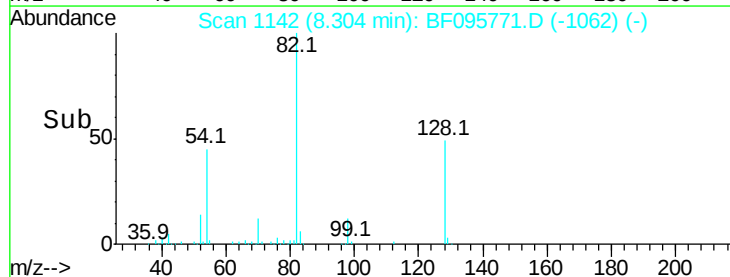
10000

0

8.30

8.25 8.30 8.35 8.40

Time-->





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.42 min Scan# 1331

Delta R.T. -0.02 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 289216

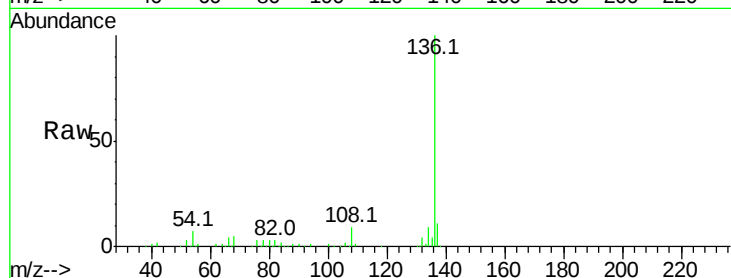
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 6.8 4.9 7.3

68 5.4 4.1 6.1

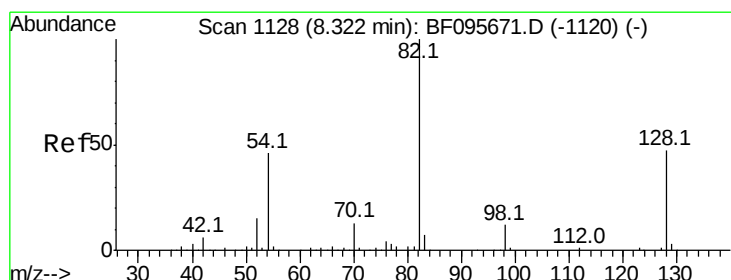
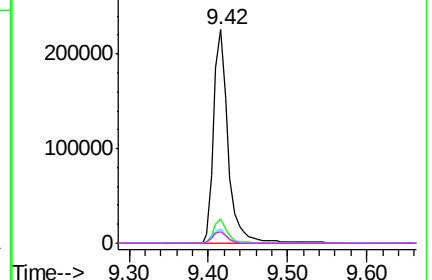
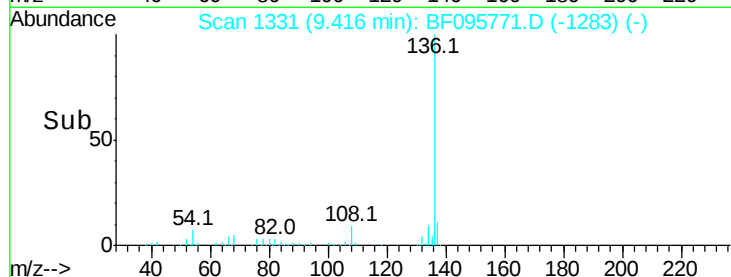


Abundance Ion 136.00 (135.70 to 136.70): E

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: 82.07 ng

RT: 8.30 min Scan# 1142

Delta R.T. -0.02 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

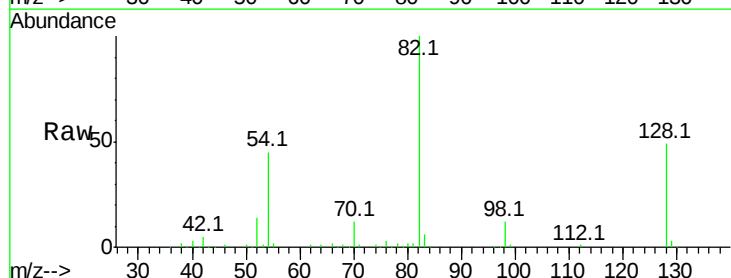
Tgt Ion: 82 Resp: 382214

Ion Ratio Lower Upper

82 100

128 48.7 34.0 51.0

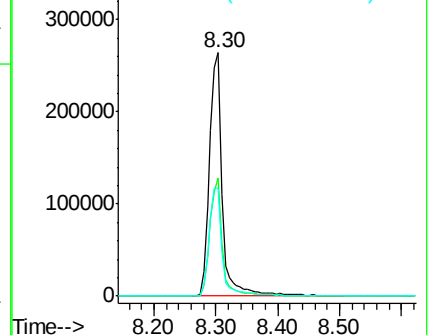
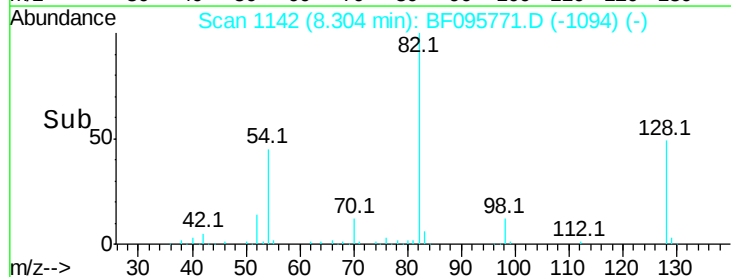
54 44.6 42.2 63.2



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: 12.24 min Scan# 1811

Delta R.T. -0.02 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

Instrument :

BNA_F

ClientSampled :

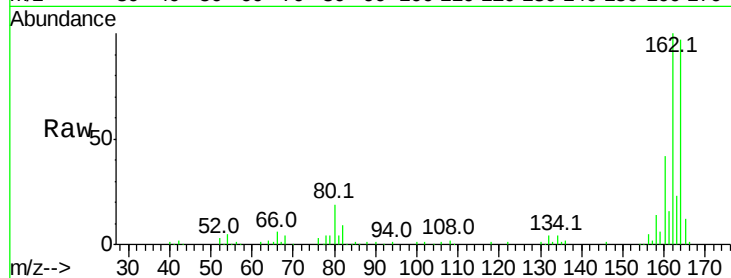
Tot Ion:164 Resp: 115512

Ion Ratio Lower Upper

164 100

162 103.6 82.6 123.8

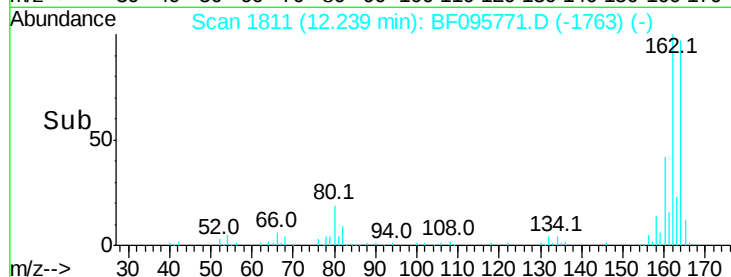
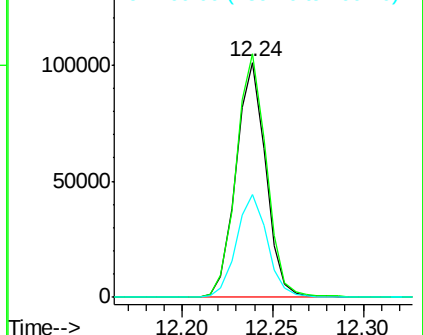
160 44.0 36.2 54.2



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: 103.29 ng

RT: 13.53 min Scan# 2031

Delta R.T. -0.02 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

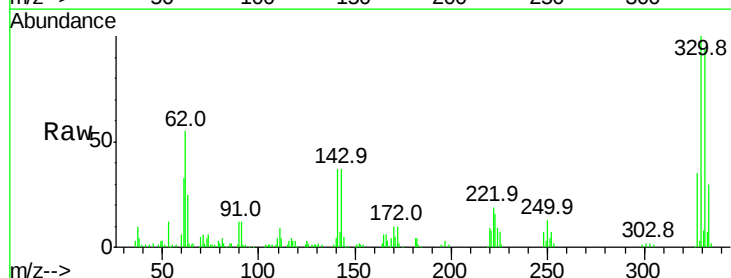
Tgt Ion:330 Resp: 105563

Ion Ratio Lower Upper

330 100

332 96.4 76.6 115.0

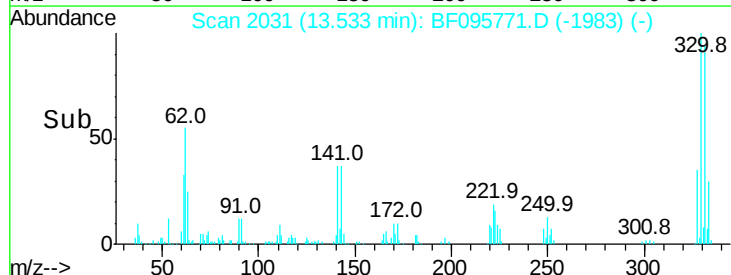
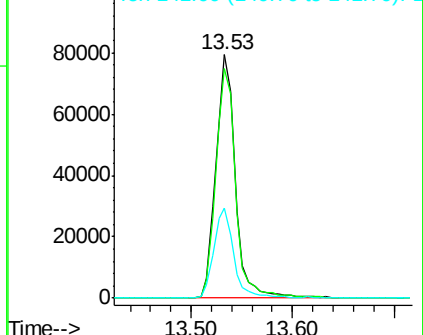
141 37.8 31.4 47.2



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

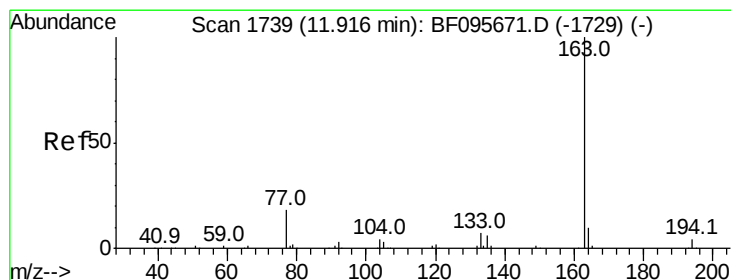
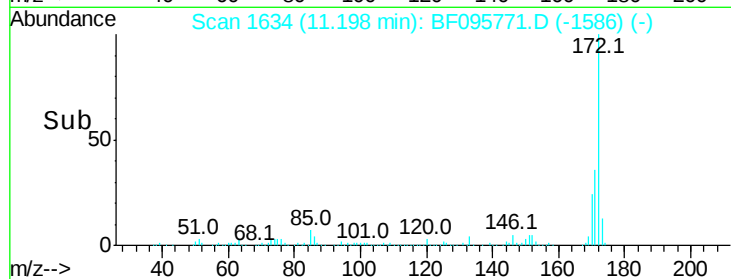
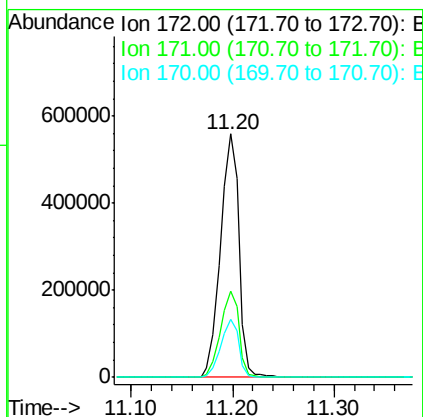
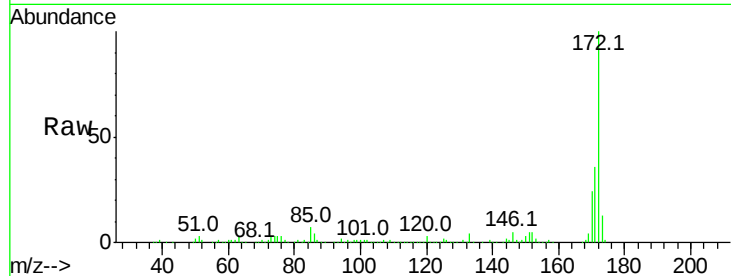




#44
2-Fluorobiphenyl
Concen: 85.41 ng
RT: 11.20 min Scan# 1634
Delta R.T. -0.02 min
Lab File: BF095771.D
Acq: 8 Jun 2017 5:23

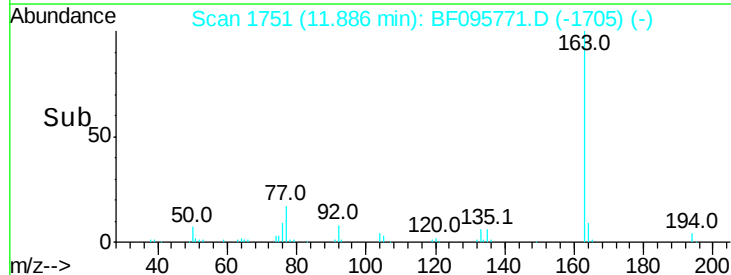
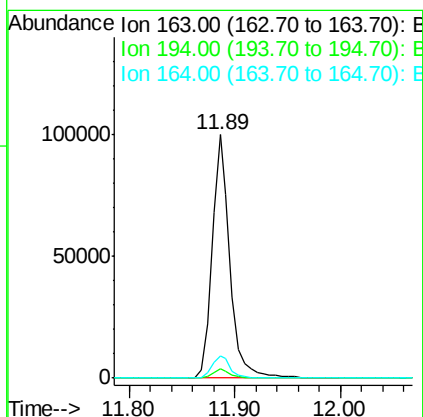
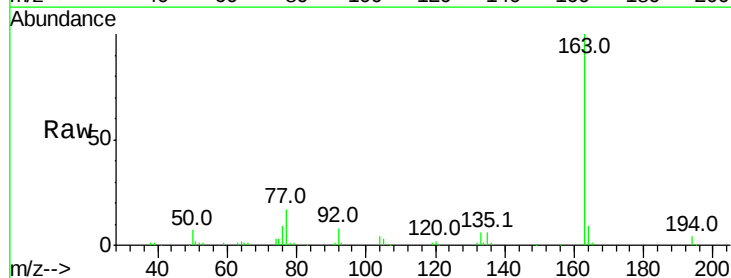
Instrument :
BNA_F
ClientSampleId :

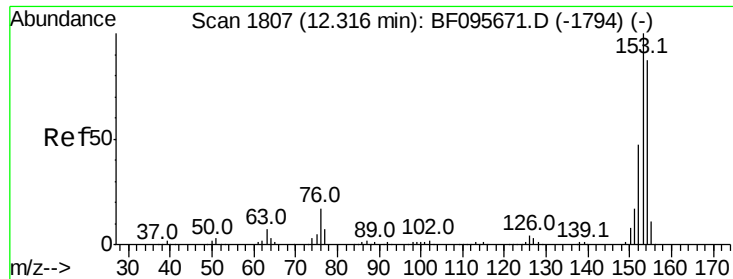
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.6	44.4
170	24.0	19.8	29.8



#49
Dimethylphthalate
Concen: 13.44 ng
RT: 11.89 min Scan# 1751
Delta R.T. -0.03 min
Lab File: BF095771.D
Acq: 8 Jun 2017 5:23

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.7	2.6	4.0
164	9.2	8.4	12.6





#51

Acenaphthene

Concen: 3.88 ng

RT: 12.29 min Scan# 1820

Delta R.T. -0.02 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

Instrument :

BNA_F

ClientSampleId :

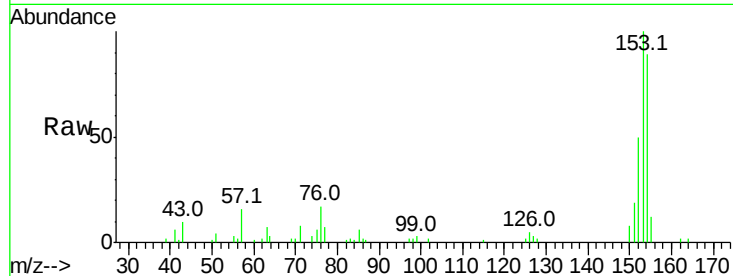
Tot Ion:154 Resp: 28493

Ion Ratio Lower Upper

154 100

153 112.6 90.5 135.7

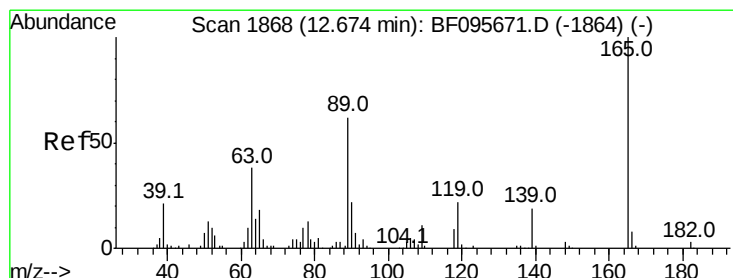
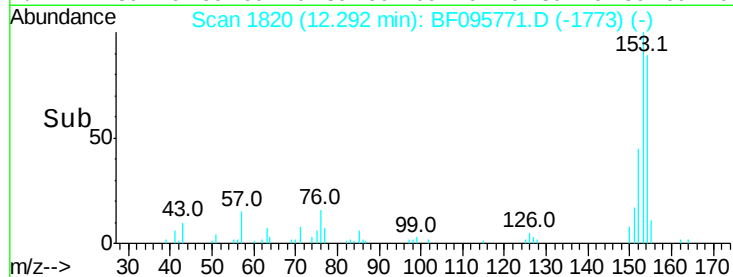
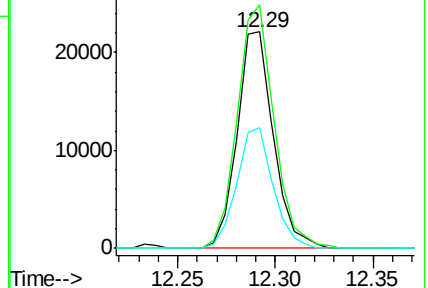
152 56.1 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

4-Nitrophenol

Concen: 7.70 ng

RT: 12.59 min Scan# 1870

Delta R.T. -0.09 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

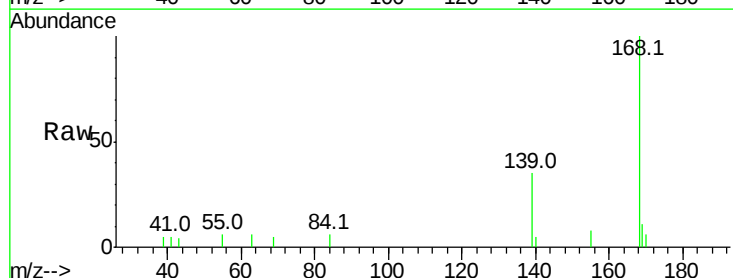
Tgt Ion:139 Resp: 4244

Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

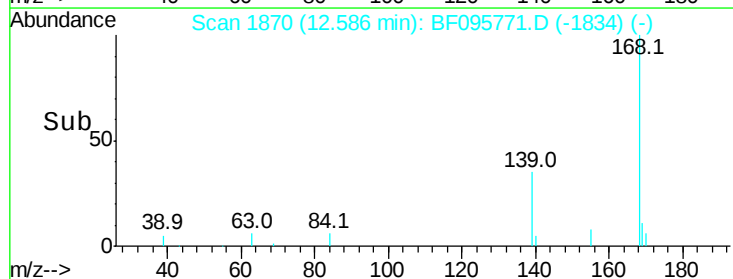
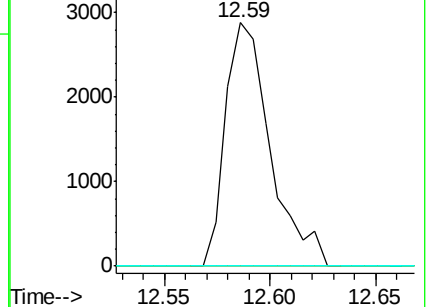
65 0.0 31.4 71.4#

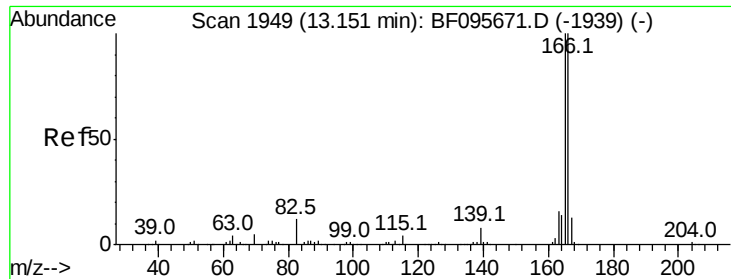


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

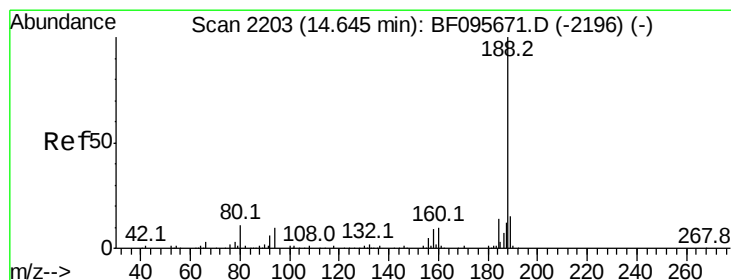
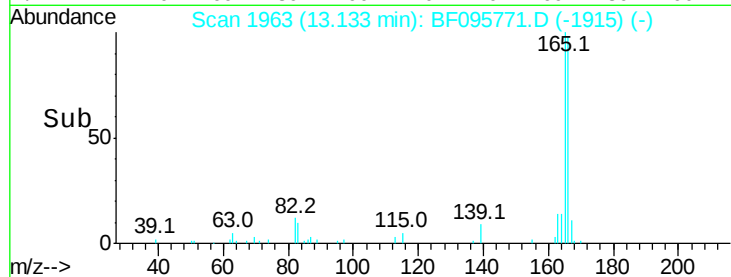
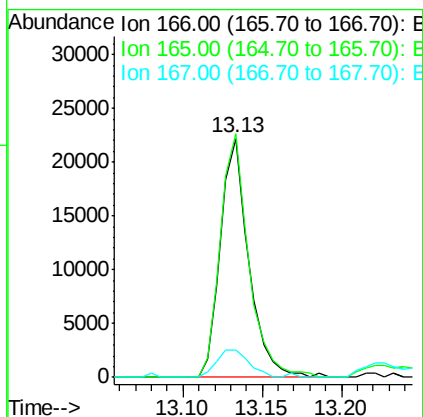
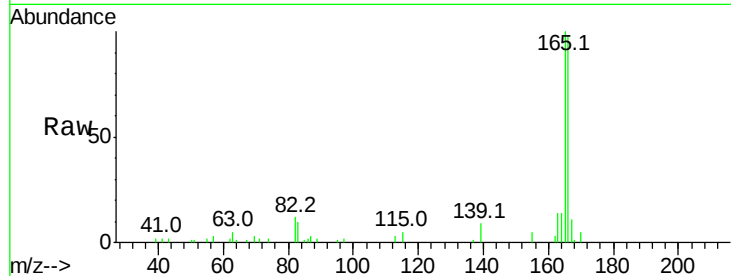




#57
 Fluorene
 Concen: 3.05 ng
 RT: 13.13 min Scan# 1963
 Delta R.T. -0.02 min
 Lab File: BF095771.D
 Acq: 8 Jun 2017 5:23

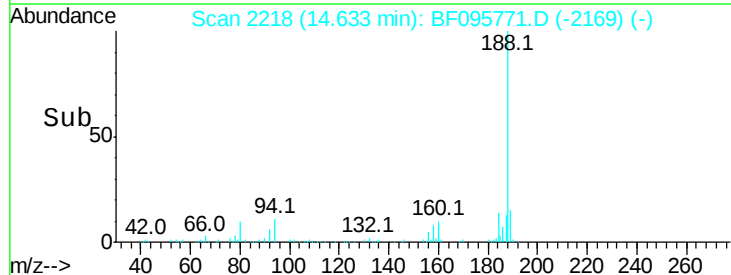
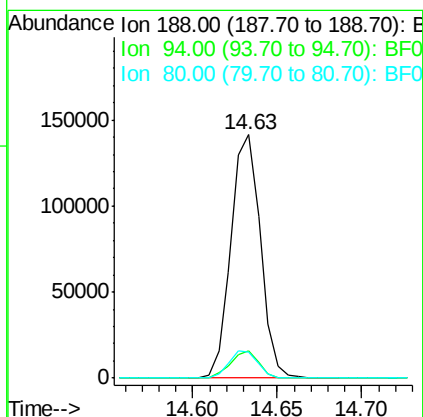
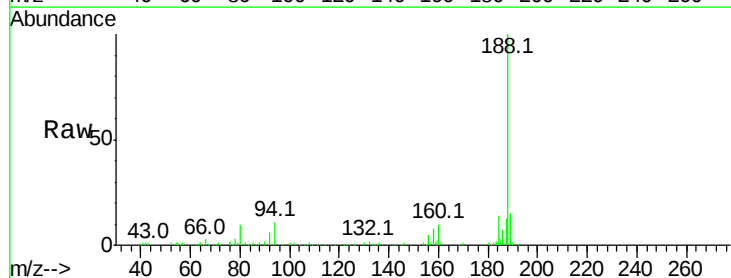
Instrument :
 BNA_F
 ClientSampleId :

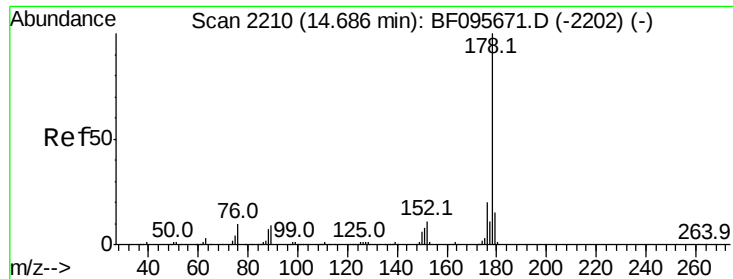
Tot Ion:166 Resp: 27481
 Ion Ratio Lower Upper
 166 100
 165 102.0 78.8 118.2
 167 11.4 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.63 min Scan# 2218
 Delta R.T. -0.01 min
 Lab File: BF095771.D
 Acq: 8 Jun 2017 5:23

Tgt Ion:188 Resp: 171387
 Ion Ratio Lower Upper
 188 100
 94 11.1 9.4 14.2
 80 10.5 10.2 15.2

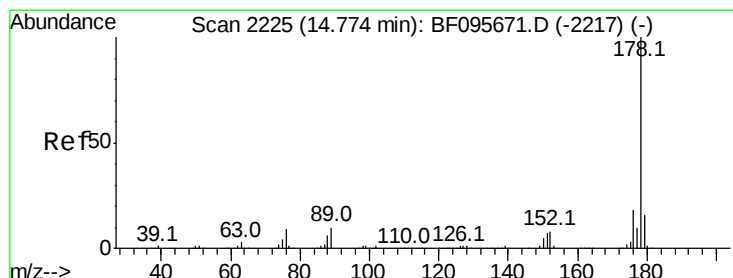
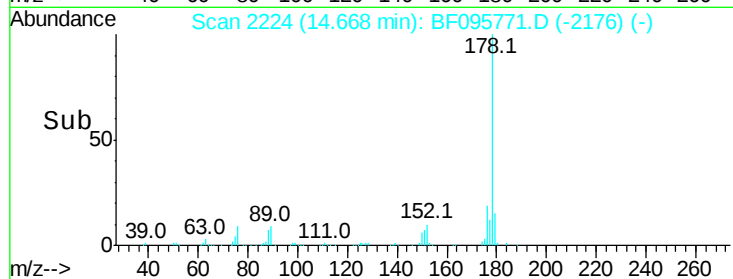
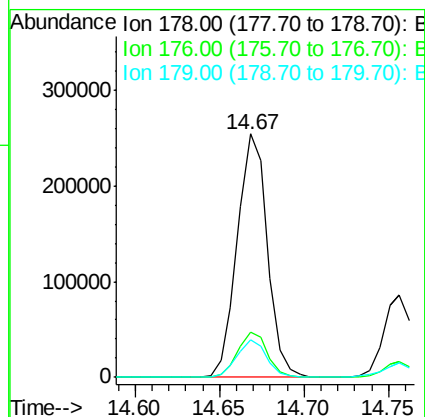
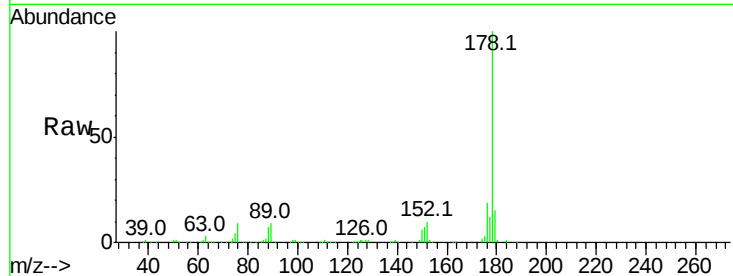




#70
 Phenanthrene
 Concen: 32.06 ng
 RT: 14.67 min Scan# 2224
 Delta R.T. -0.02 min
 Lab File: BF095771.D
 Acq: 8 Jun 2017 5:23

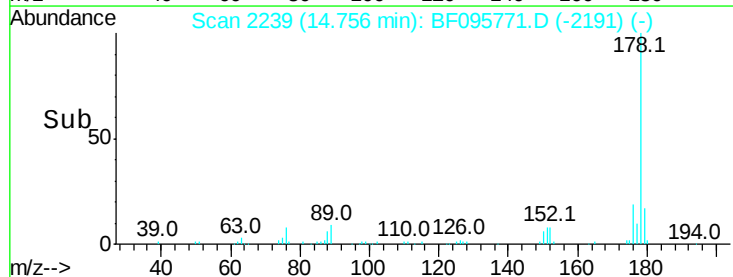
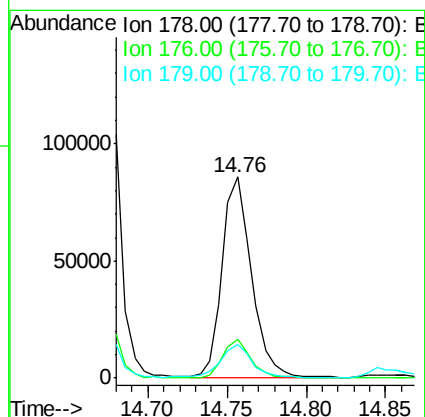
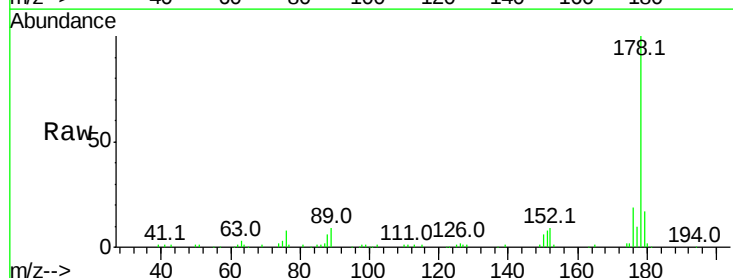
Instrument :
 BNA_F
 ClientSampleId :

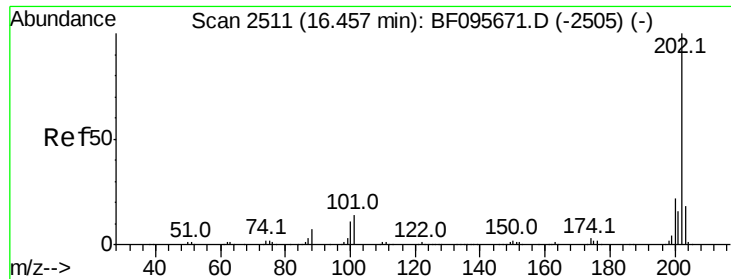
Tot Ion:178 Resp: 317049
 Ion Ratio Lower Upper
 178 100
 176 18.6 16.2 24.4
 179 15.5 12.6 19.0



#71
 Anthracene
 Concen: 10.80 ng
 RT: 14.76 min Scan# 2239
 Delta R.T. -0.02 min
 Lab File: BF095771.D
 Acq: 8 Jun 2017 5:23

Tgt Ion:178 Resp: 111544
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.8 23.8
 179 17.0 12.7 19.1

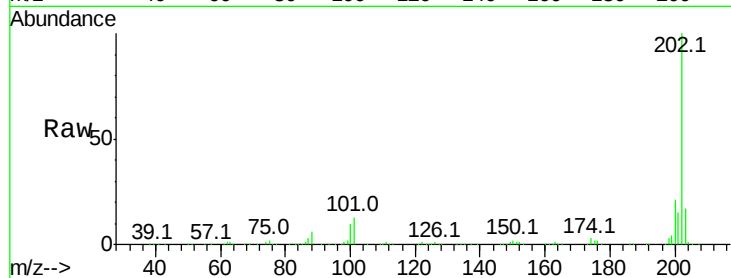




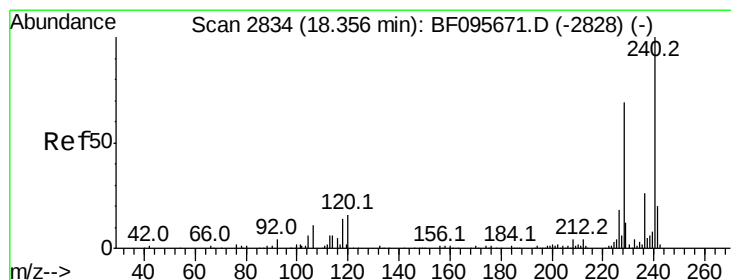
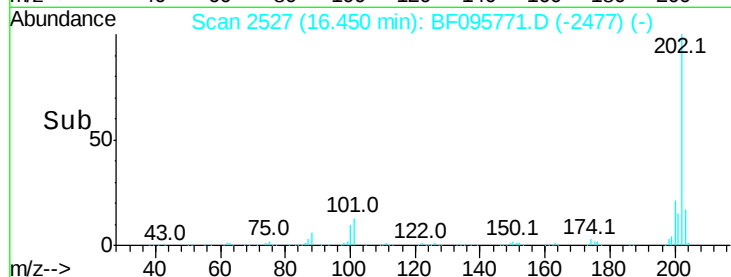
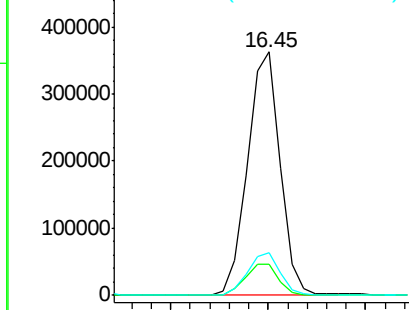
#74
 Fluoranthene
 Concen: 42.79 ng
 RT: 16.45 min Scan# 2527
 Delta R.T. -0.01 min
 Lab File: BF095771.D
 Acq: 8 Jun 2017 5:23

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	33.2
203	17.5	0.0	38.1

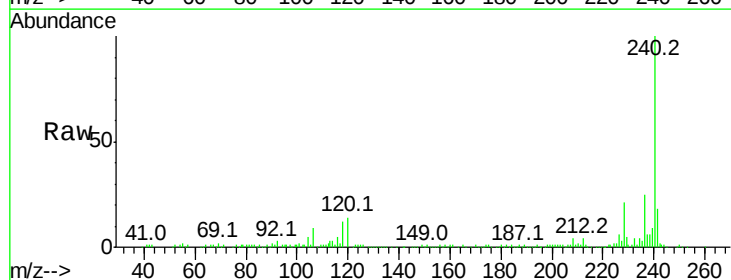


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

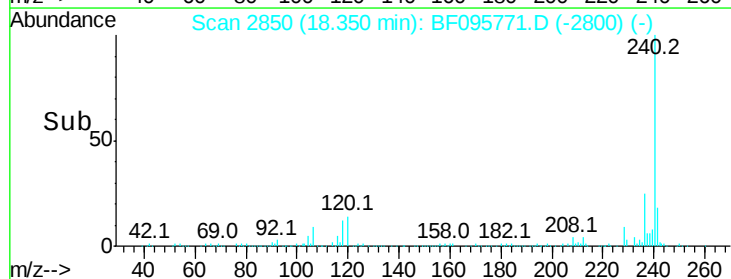
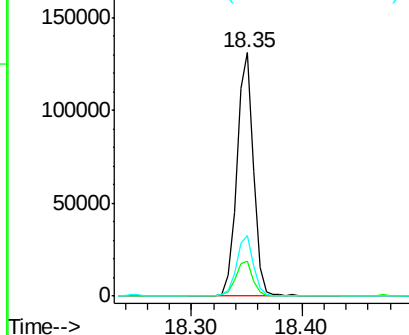


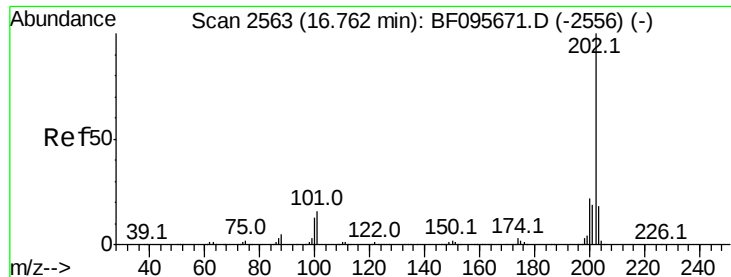
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.35 min Scan# 2850
 Delta R.T. -0.01 min
 Lab File: BF095771.D
 Acq: 8 Jun 2017 5:23

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.2	5.8	8.8#
236	24.6	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: 35.58 ng

RT: 16.75 min Scan# 2578

Delta R.T. -0.01 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

Instrument :

BNA_F

ClientSampleId :

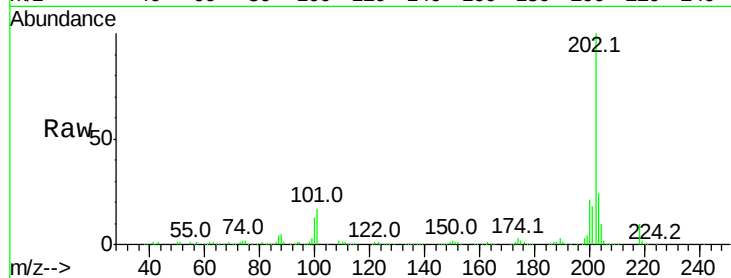
Tot Ion:202 Resp: 365836

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

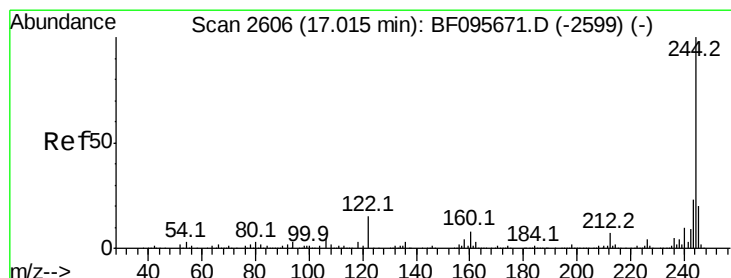
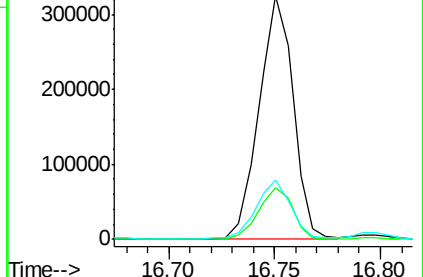
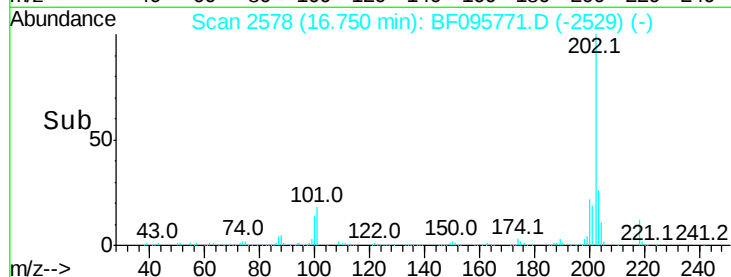
203 24.4 14.4 21.6#



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: 77.64 ng

RT: 17.00 min Scan# 2621

Delta R.T. -0.01 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

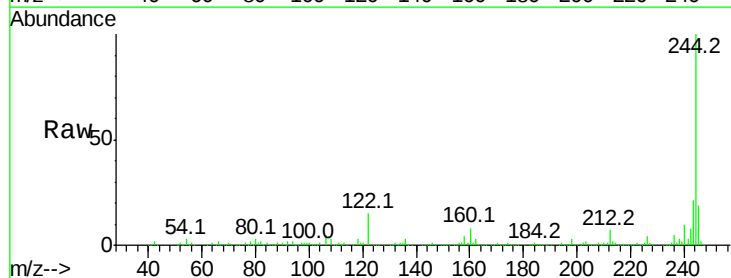
Tgt Ion:244 Resp: 431160

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

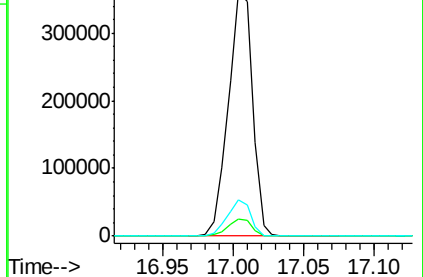
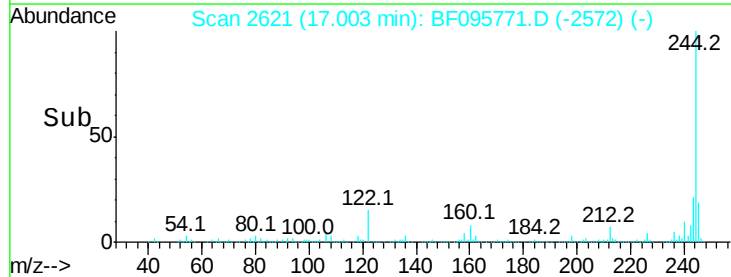
122 14.9 10.3 15.5

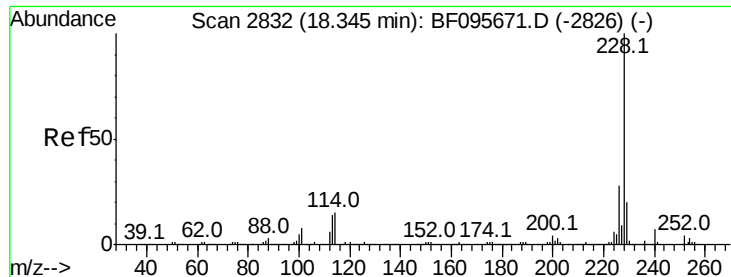


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 20.93 ng

RT: 18.34 min Scan# 2848

Delta R.T. -0.01 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

Instrument :

BNA_F

ClientSampleId :

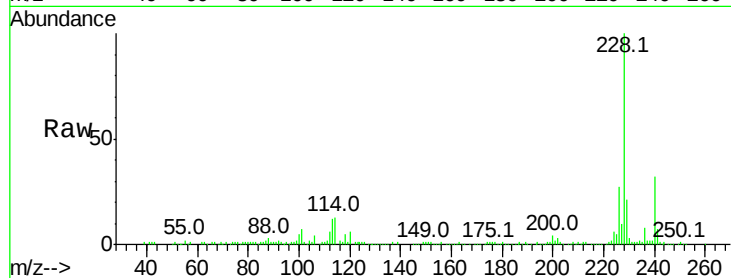
Tot Ion:228 Resp: 167741

Ion Ratio Lower Upper

228 100

226 27.3 22.6 33.8

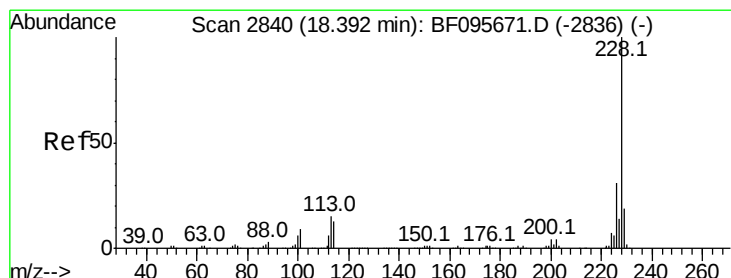
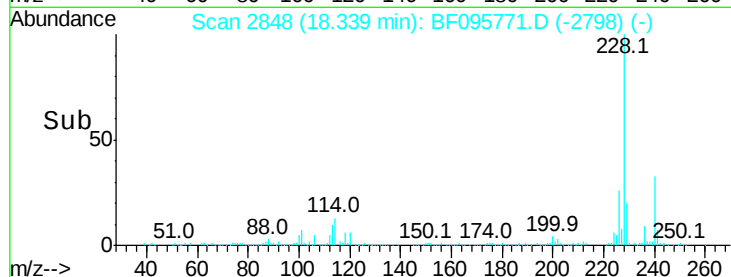
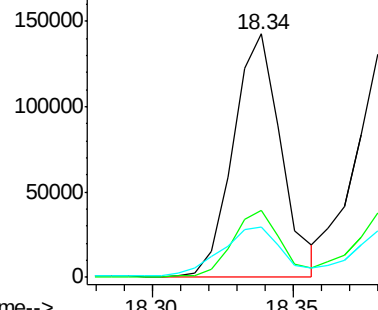
229 20.5 16.3 24.5



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: 19.36 ng

RT: 18.38 min Scan# 2855

Delta R.T. -0.01 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

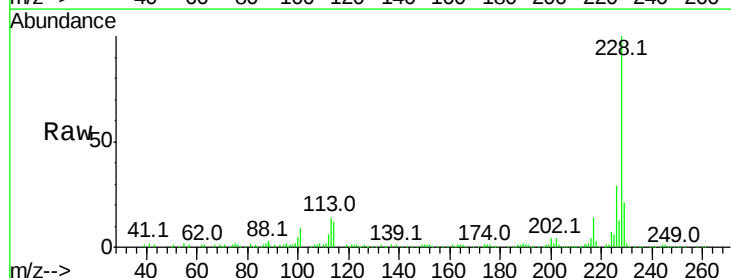
Tgt Ion:228 Resp: 155011

Ion Ratio Lower Upper

228 100

226 28.7 24.9 37.3

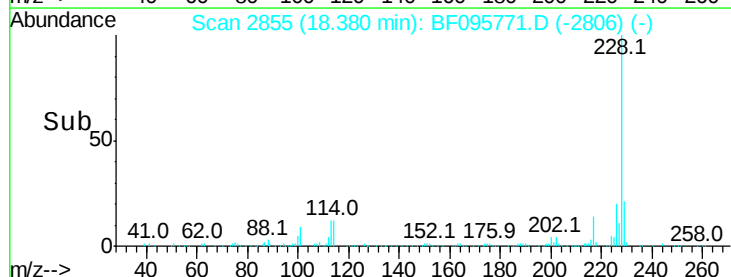
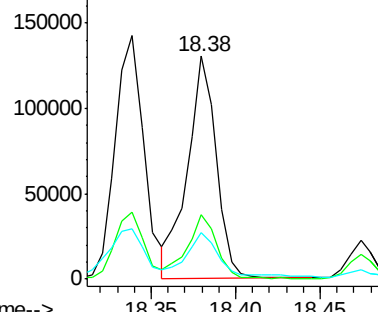
229 21.0 15.8 23.6

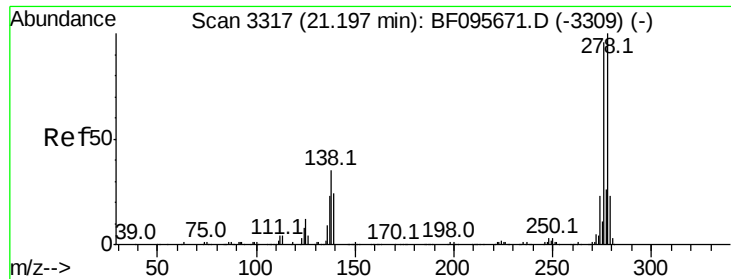


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

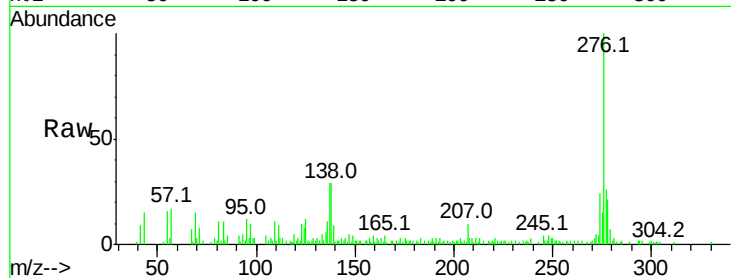




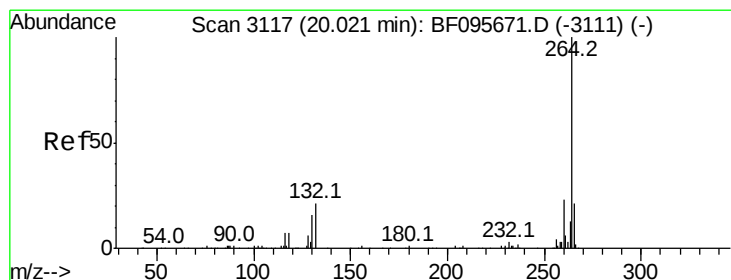
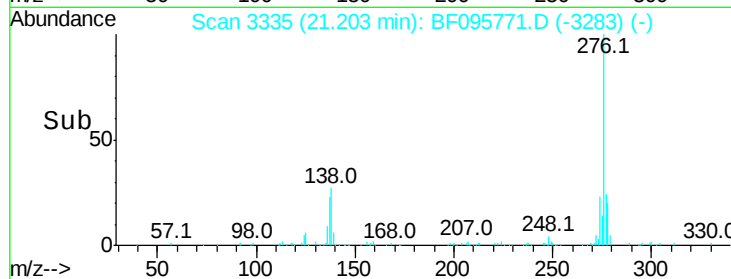
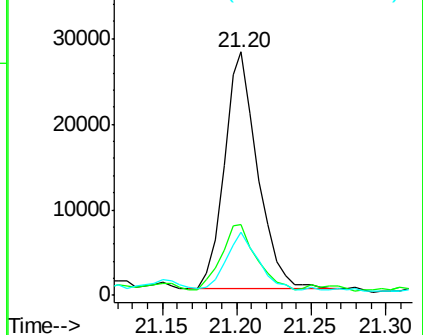
#85
Indeno(1,2,3-cd)pyrene
Concen: 6.30 ng
RT: 21.20 min Scan# 3335
Delta R.T. 0.01 min
Lab File: BF095771.D
Acq: 8 Jun 2017 5:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion:276 Resp: 43144
Ion Ratio Lower Upper
276 100
138 29.6 27.8 41.6
277 22.7 20.2 30.4

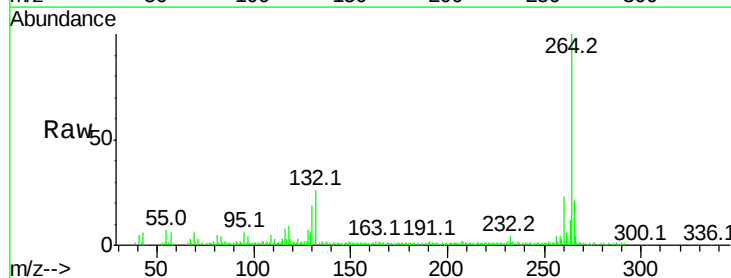


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

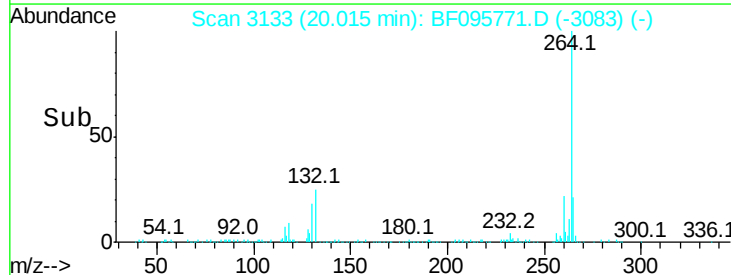
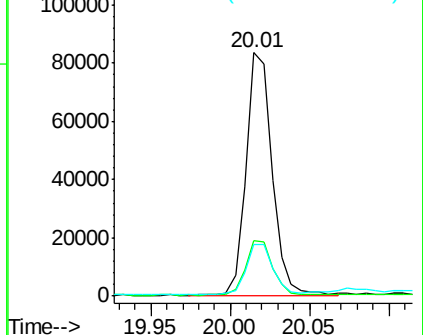


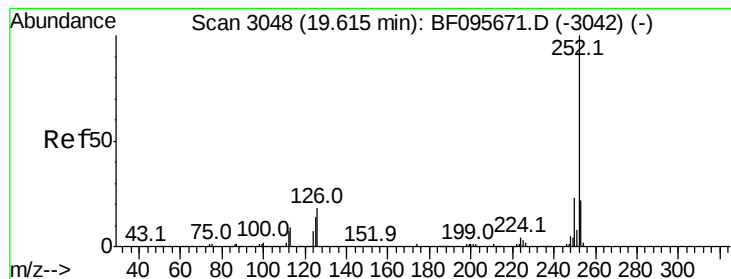
#86
Perylene-d12
Concen: 20.00 ng
RT: 20.01 min Scan# 3133
Delta R.T. -0.01 min
Lab File: BF095771.D
Acq: 8 Jun 2017 5:23

Tgt Ion:264 Resp: 96646
Ion Ratio Lower Upper
264 100
260 22.7 19.5 29.3
265 21.4 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: 30.61 ng

RT: 19.61 min Scan# 3065

Delta R.T. -0.00 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

Instrument :

BNA_F

ClientSampled :

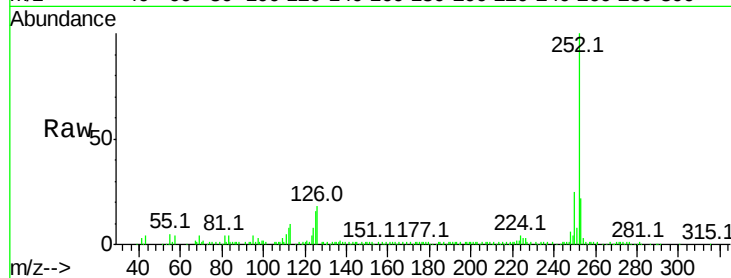
Tot Ion:252 Resp: 185231

Ion Ratio Lower Upper

252 100

253 21.9 18.1 27.1

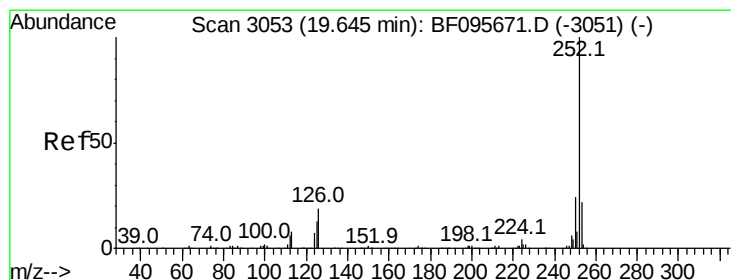
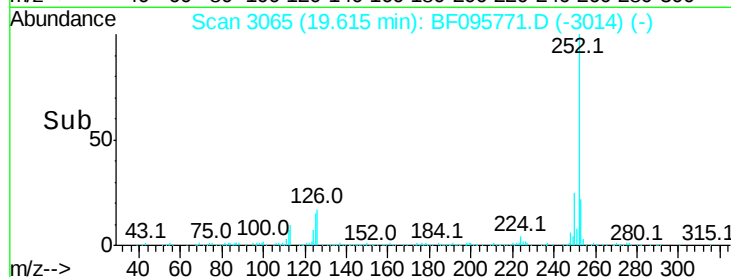
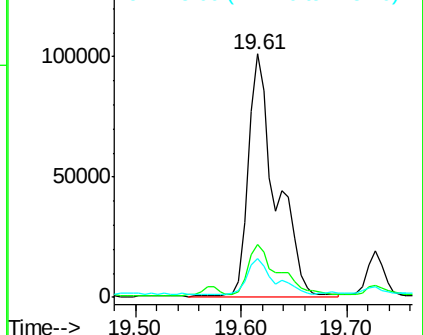
125 15.7 9.8 14.8#



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: 32.02 ng

RT: 19.61 min Scan# 3065

Delta R.T. -0.03 min

Lab File: BF095771.D

Acq: 8 Jun 2017 5:23

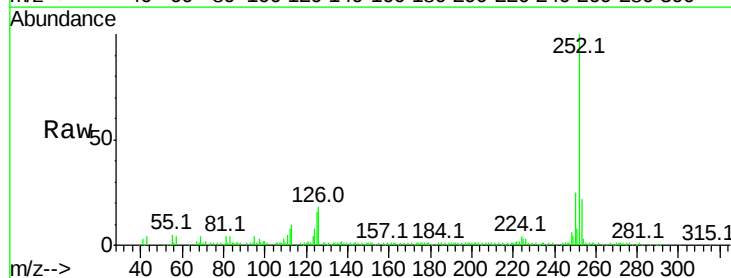
Tgt Ion:252 Resp: 185231

Ion Ratio Lower Upper

252 100

253 21.9 18.4 27.6

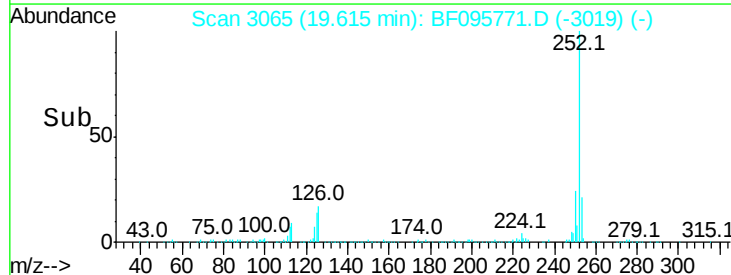
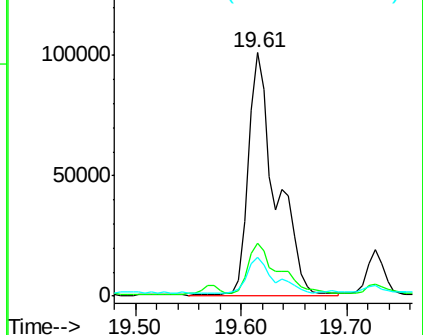
125 15.7 13.1 19.7

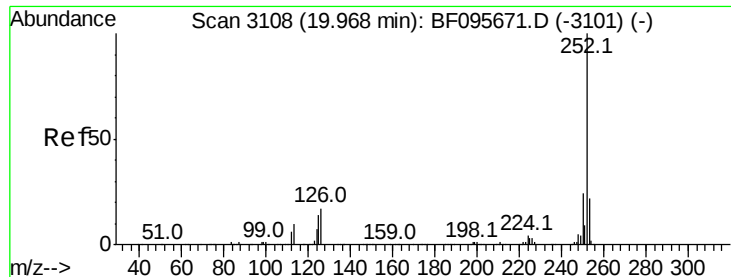


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

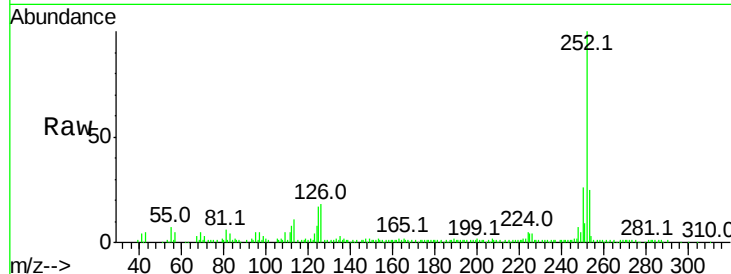




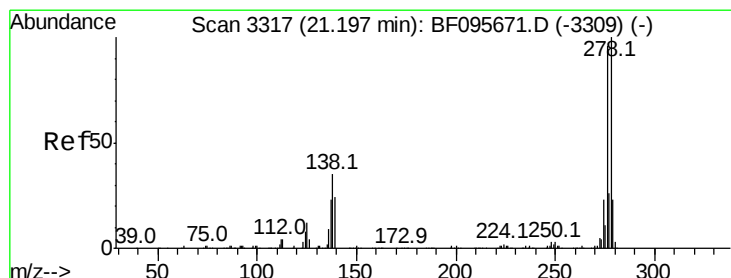
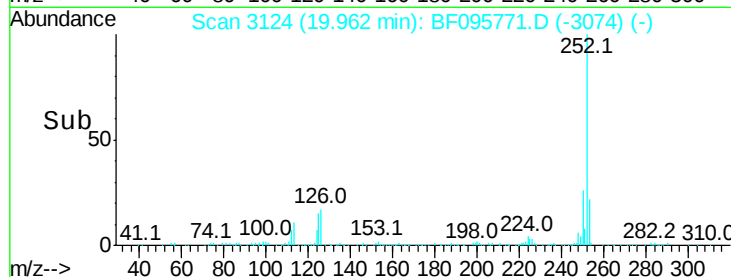
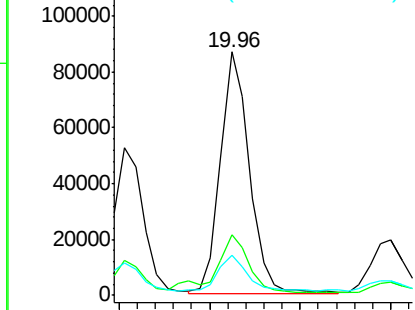
#89
Benzo(a)pyrene
Concen: 17.51 ng
RT: 19.96 min Scan# 3124
Delta R.T. -0.01 min
Lab File: BF095771.D
Acq: 8 Jun 2017 5:23

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 97385
Ion Ratio Lower Upper
252 100
253 24.8 17.5 26.3
125 16.6 11.0 16.4#

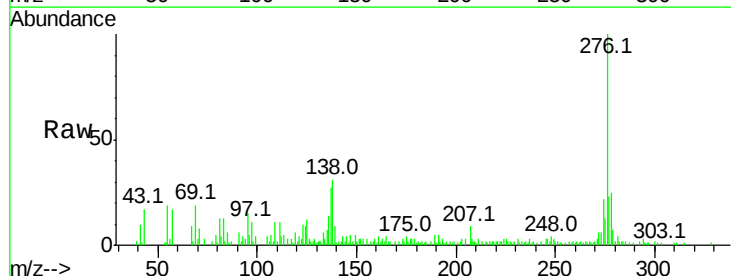


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

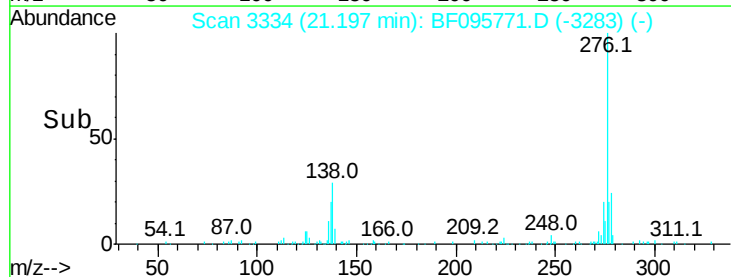
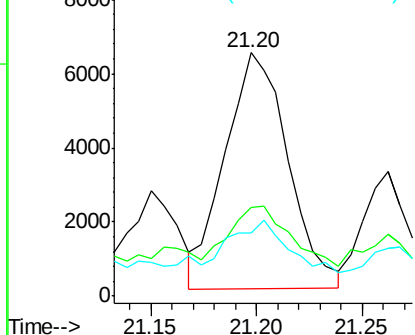


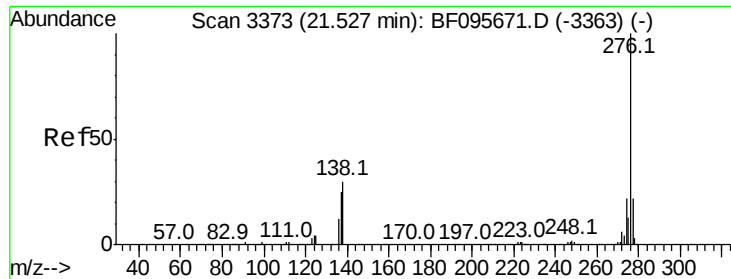
#90
Dibenzo(a,h)anthracene
Concen: 2.81 ng
RT: 21.20 min Scan# 3334
Delta R.T. -0.00 min
Lab File: BF095771.D
Acq: 8 Jun 2017 5:23

Tgt Ion:278 Resp: 13240
Ion Ratio Lower Upper
278 100
139 36.6 16.6 24.8#
279 25.8 19.3 28.9



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(a,h,i)perylene
Concen: 8.65 ng
RT: 21.54 min Scan# 3392
Delta R.T. 0.01 min
Lab File: BF095771.D
Acq: 8 Jun 2017 5:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	29.0	18.6	28.0
138	34.8	25.4	38.0

