

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062117\
 Data File : BF096114.D
 Acq On : 22 Jun 2017 9:05
 Operator : SJ/MA
 Sample : I3792-01DL 25X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 22 10:47:56 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 20 16:05:47 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.30	152	68589	20.00	ng	0.00
21) Naphthalene-d8	9.33	136	307743	20.00	ng	0.00
38) Acenaphthene-d10	12.14	164	105866	20.00	ng	0.00
63) Phenanthrene-d10	14.54	188	189566	20.00	ng	0.00
75) Chrysene-d12	18.27	240	162141	20.00	ng	0.00
86) Perylene-d12	19.94	264	97290	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.44	112	1765	0.41	ng	0.26
7) Phenol-d6	7.09	99	2720	0.53	ng	0.22
23) Nitrobenzene-d5	8.36	82	3876	0.78	ng	0.14
41) 2,4,6-Tribromophenol	13.50	330	1827	1.95	ng	0.05
44) 2-Fluorobiphenyl	11.12	172	23621	3.10	ng	0.00
78) Terphenyl-d14	16.92	244	20600	3.15	ng	0.00

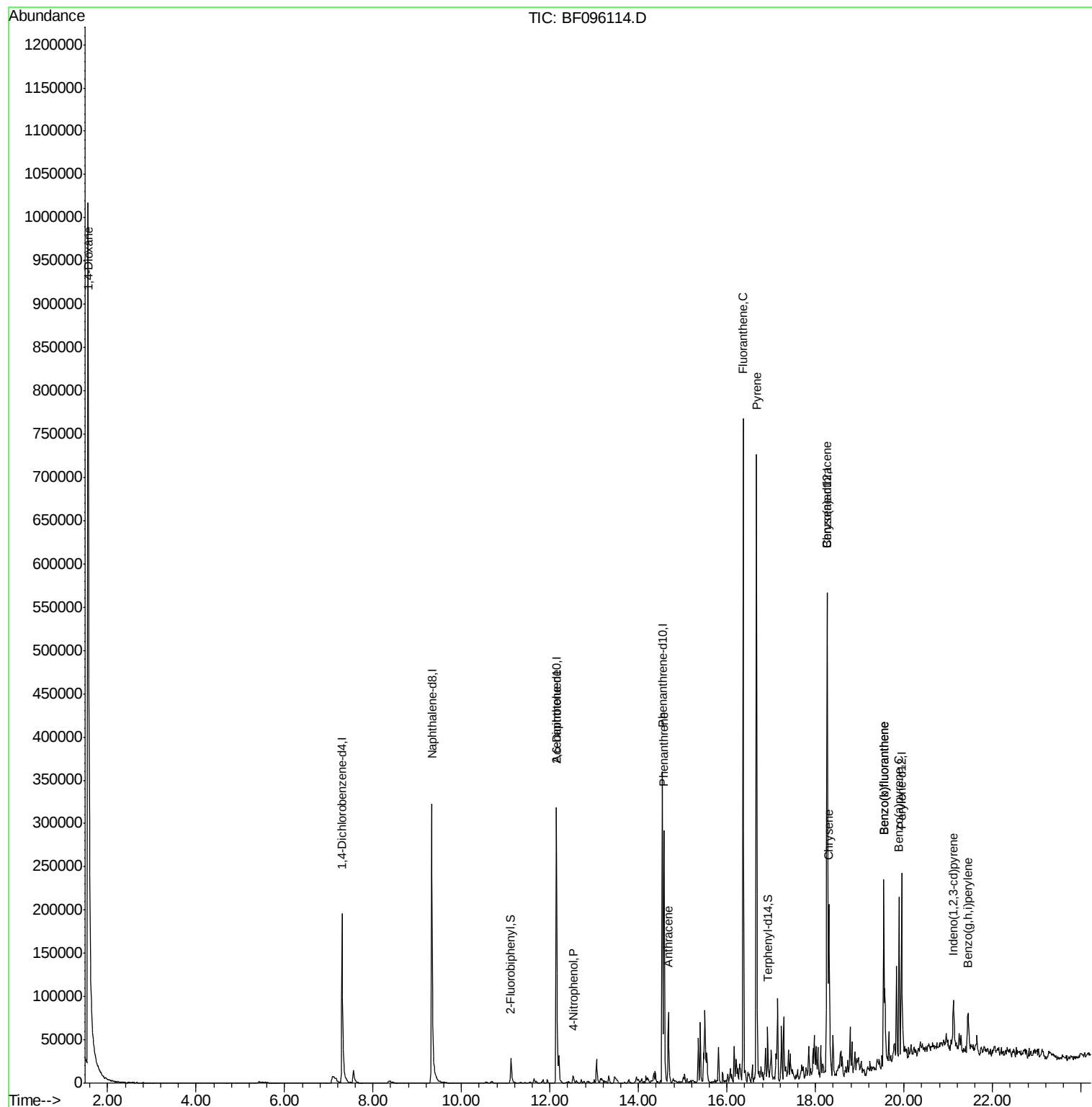
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.56	88	56836	27.76	ng	# 22
50) 2,6-Dinitrotoluene	12.14	165	13271	7.57	ng	# 31
55) 4-Nitrophenol	12.52	139	2685	6.75	ng	# 25
70) Phenanthrene	14.57	178	183726	16.80	ng	98
71) Anthracene	14.67	178	65615	5.75	ng	99
74) Fluoranthene	16.36	202	399394	36.89	ng	98
77) Pyrene	16.67	202	339732	28.08	ng	96
80) Benzo(a)anthracene	18.26	228	143953	15.27	ng	97
82) Chrysene	18.30	228	112550	11.95	ng	98
85) Indeno(1,2,3-cd)pyrene	21.11	276	40249	4.99	ng	# 91
87) Benzo(b)fluoranthene	19.54	252	142230	23.35	ng	# 95
88) Benzo(k)fluoranthene	19.54	252	142230	24.43	ng	98
89) Benzo(a)pyrene	19.89	252	78847	14.08	ng	97
91) Benzo(g,h,i)perylene	21.44	276	36064	7.45	ng	100

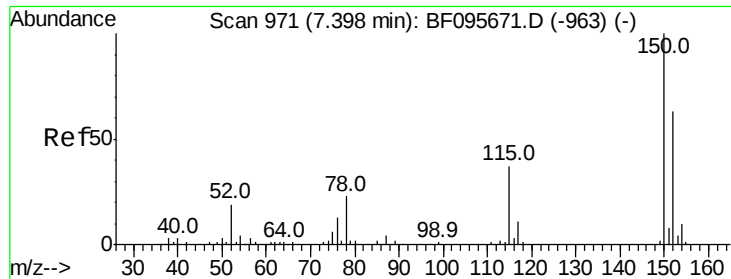
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.30 min Scan# 988

Delta R.T. 0.01 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

Instrument :

BNA_F

ClientSampleId :

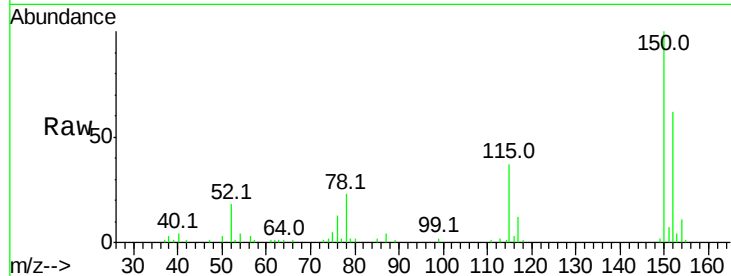
Tot Ion:152 Resp: 68589

Ion Ratio Lower Upper

152 100

150 162.0 126.2 189.2

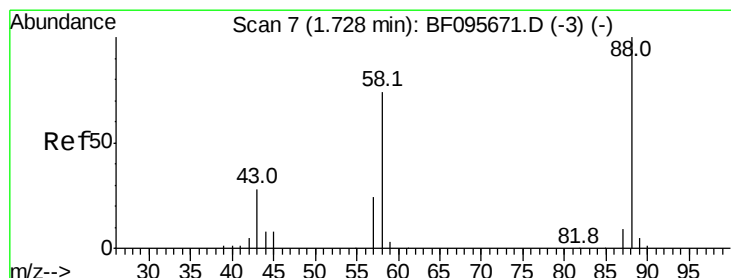
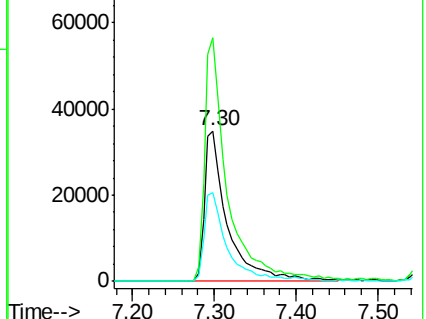
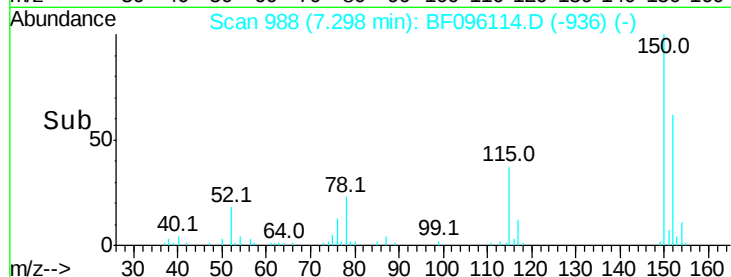
115 59.3 52.2 78.2



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



#2

1,4-Dioxane

Concen: 27.76 ng

RT: 1.56 min Scan# 12

Delta R.T. -0.05 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

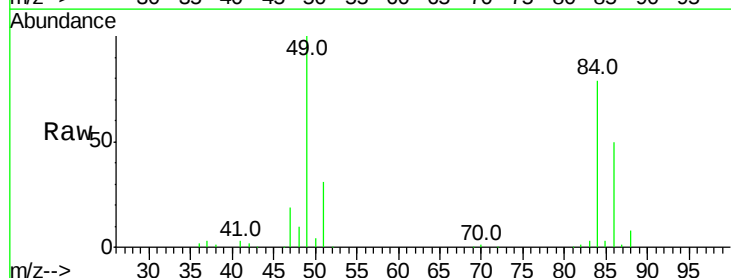
Tgt Ion: 88 Resp: 56836

Ion Ratio Lower Upper

88 100

58 0.0 61.4 92.0#

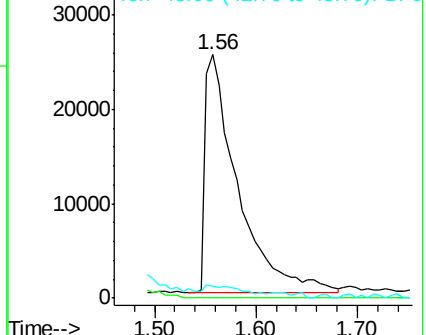
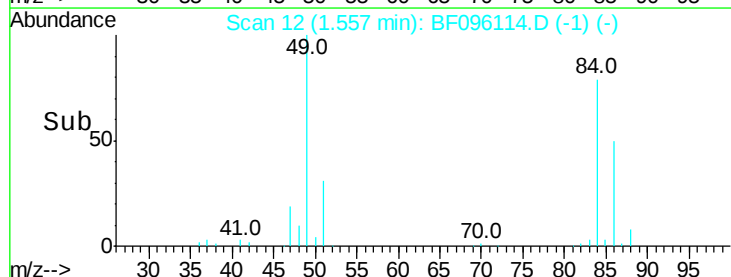
43 3.4 23.4 35.0#

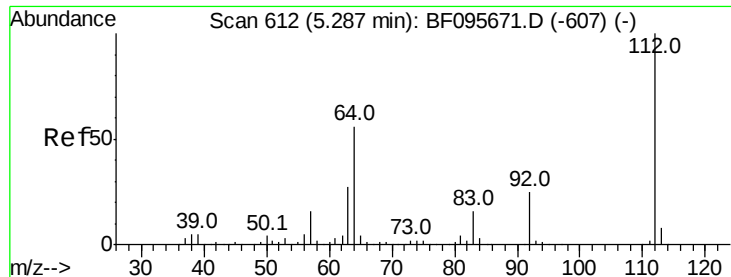


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 0.41 ng

RT: 5.44 min Scan# 672

Delta R.T. 0.26 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

Instrument :

BNA_F

ClientSampleId :

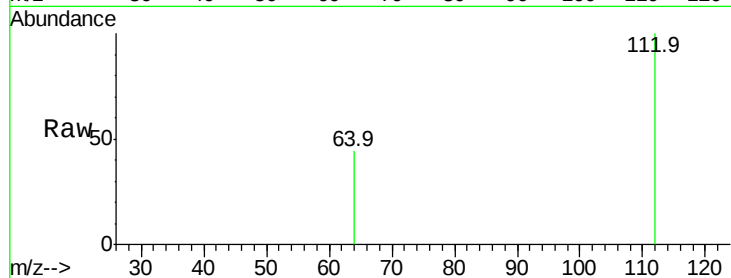
Tot Ion:112 Resp: 1765

Ion Ratio Lower Upper

112 100

64 44.2 46.0 69.0#

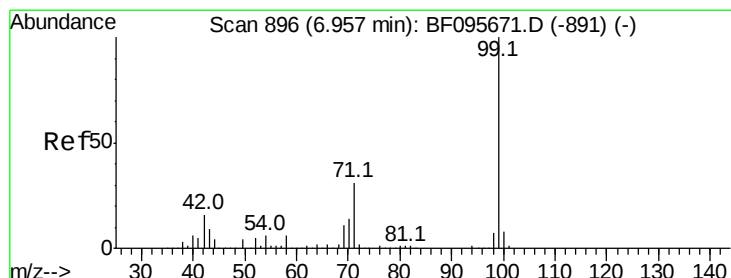
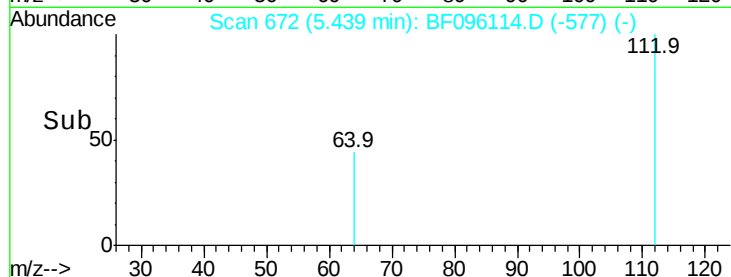
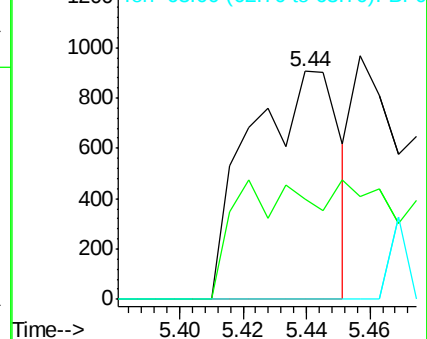
63 0.0 23.4 35.0#



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: 0.53 ng

RT: 7.09 min Scan# 953

Delta R.T. 0.22 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

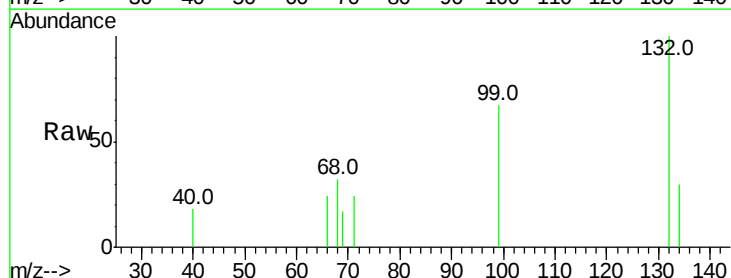
Tgt Ion: 99 Resp: 2720

Ion Ratio Lower Upper

99 100

42 0.0 13.5 20.3#

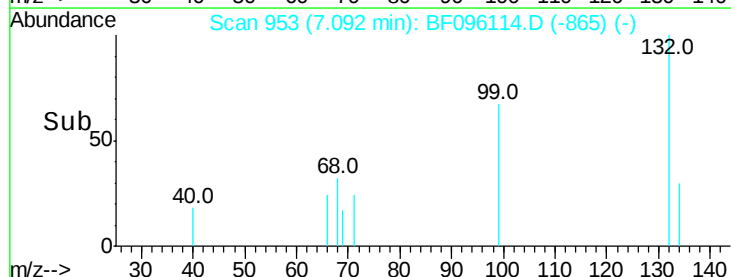
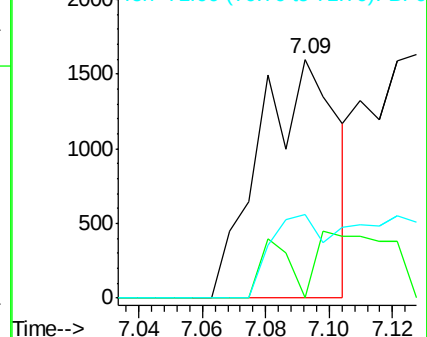
71 35.2 24.5 36.7

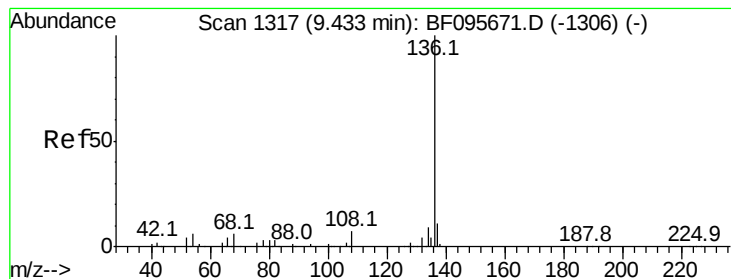


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.33 min Scan# 1333

Delta R.T. 0.00 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 307743

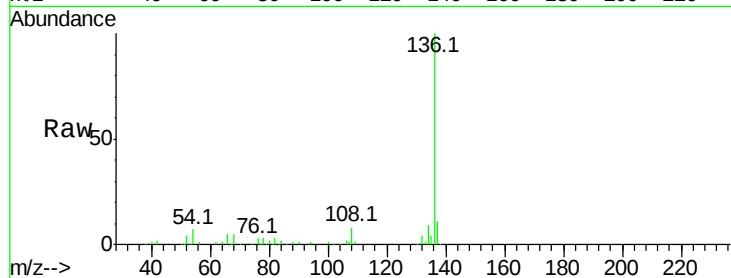
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 7.2 4.9 7.3

68 5.3 4.1 6.1

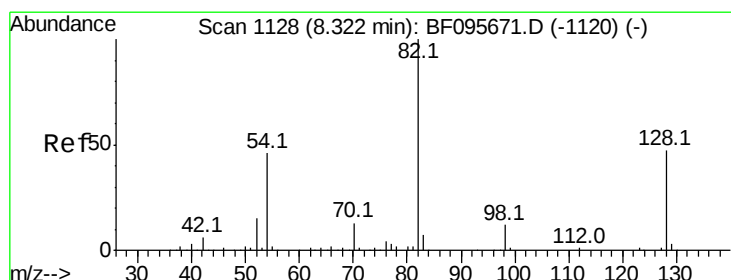
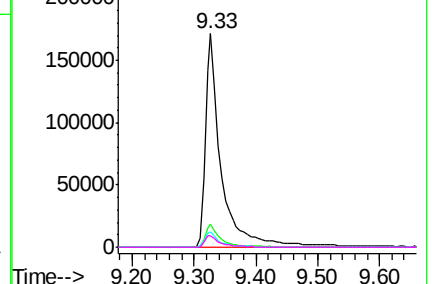
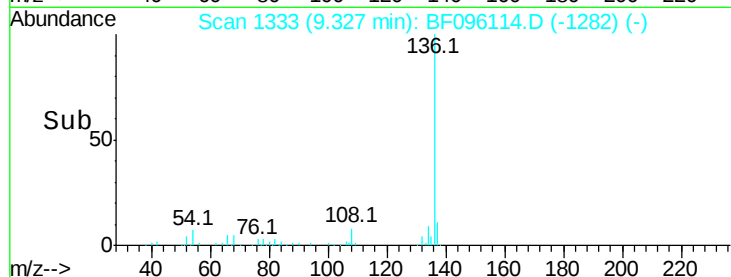


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.78 ng

RT: 8.36 min Scan# 1168

Delta R.T. 0.14 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

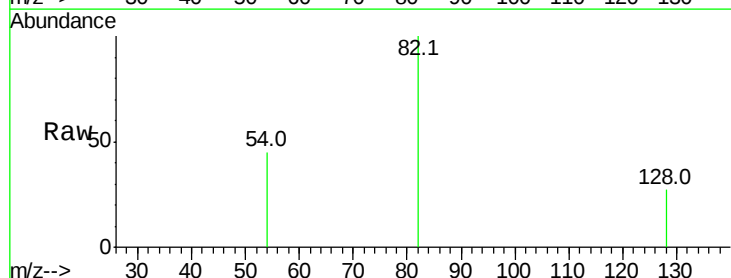
Tgt Ion: 82 Resp: 3876

Ion Ratio Lower Upper

82 100

128 26.9 34.0 51.0#

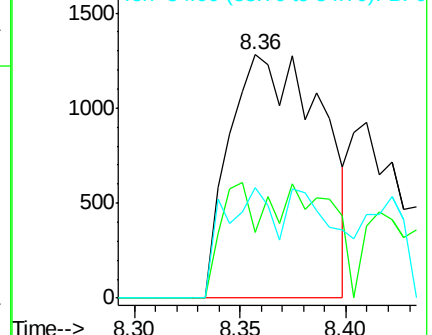
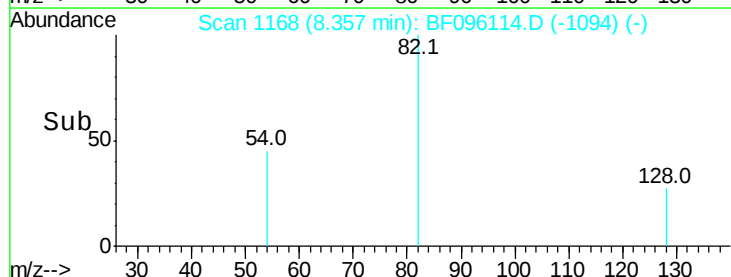
54 45.3 42.2 63.2

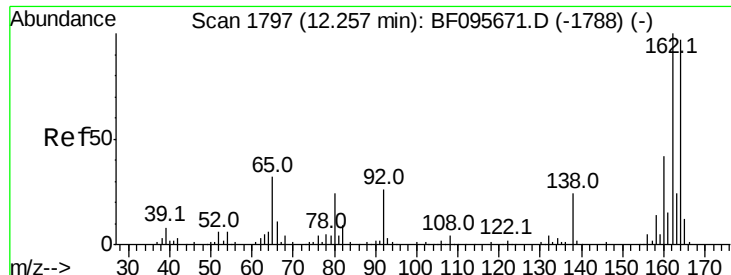


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 12.14 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

Instrument :

BNA_F

ClientSampleId :

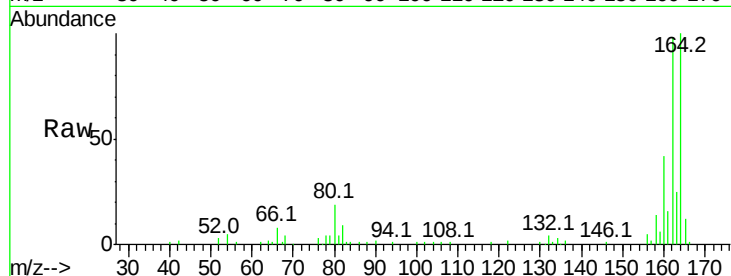
Tot Ion:164 Resp: 105866

Ion Ratio Lower Upper

164 100

162 98.4 82.6 123.8

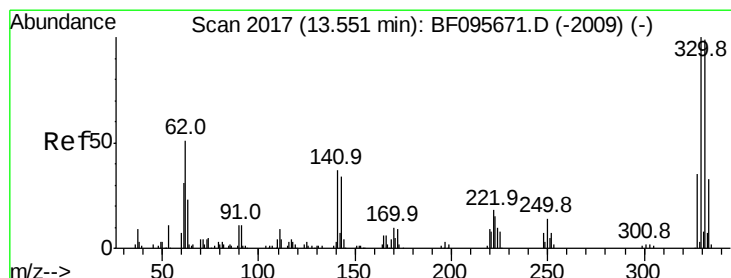
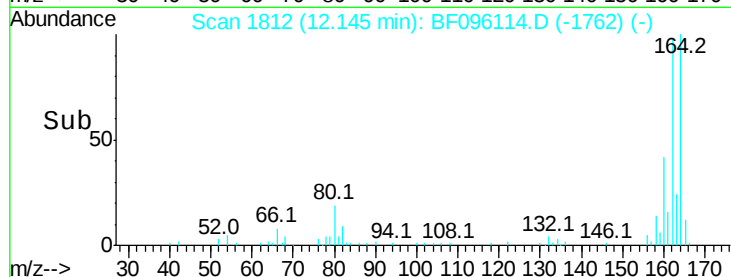
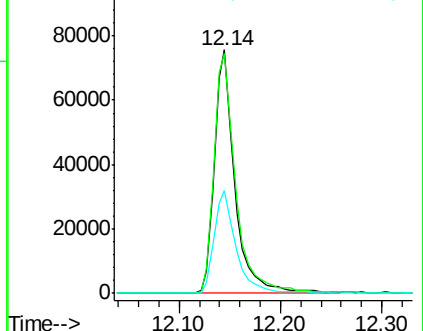
160 42.2 36.2 54.2



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: 1.95 ng

RT: 13.50 min Scan# 2043

Delta R.T. 0.05 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

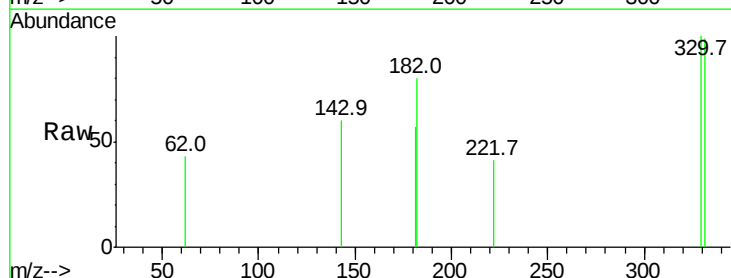
Tgt Ion:330 Resp: 1827

Ion Ratio Lower Upper

330 100

332 0.0 76.6 115.0#

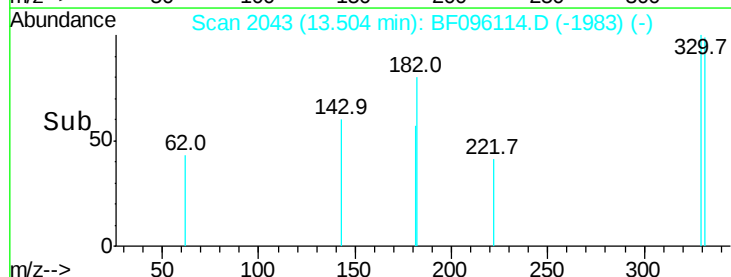
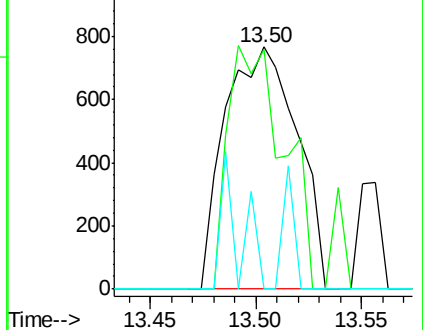
141 7.5 31.4 47.2#

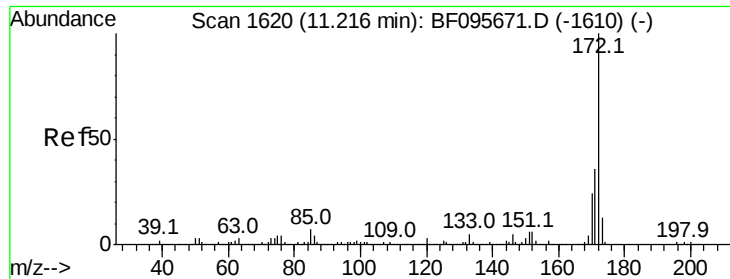


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

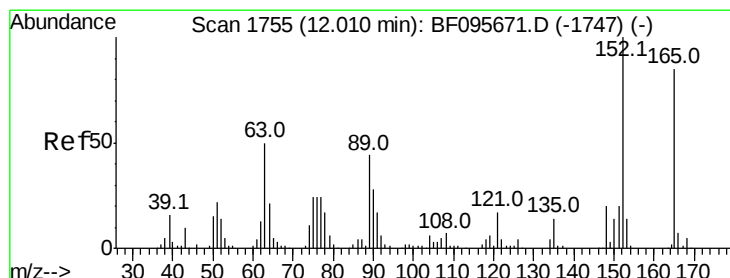
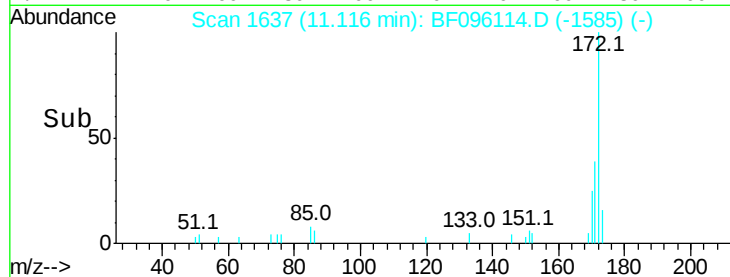
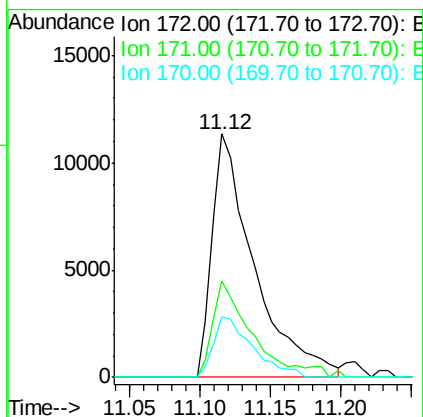
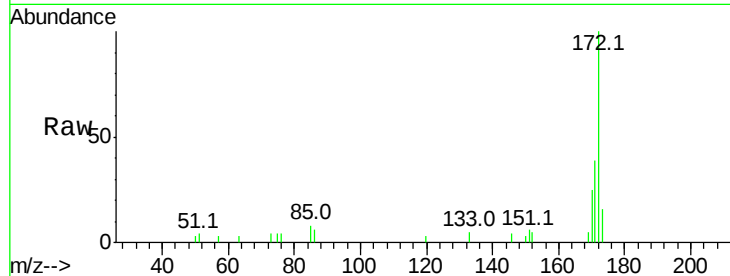




#44
 2-Fluorobiphenyl
 Concen: 3.10 ng
 RT: 11.12 min Scan# 1637
 Delta R.T. 0.01 min
 Lab File: BF096114.D
 Acq: 22 Jun 2017 9:05

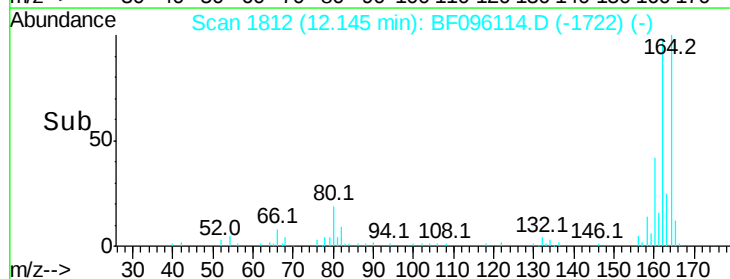
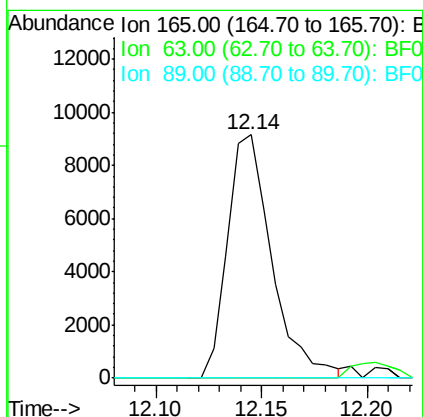
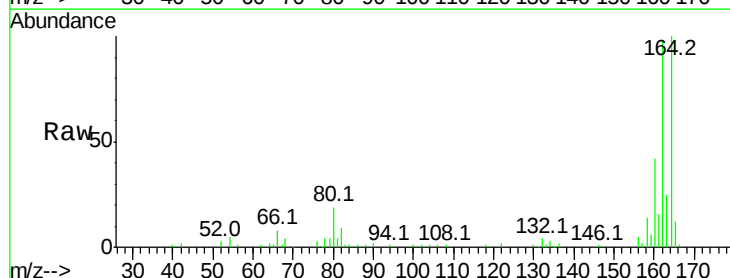
Instrument :
 BNA_F
 ClientSampleId :

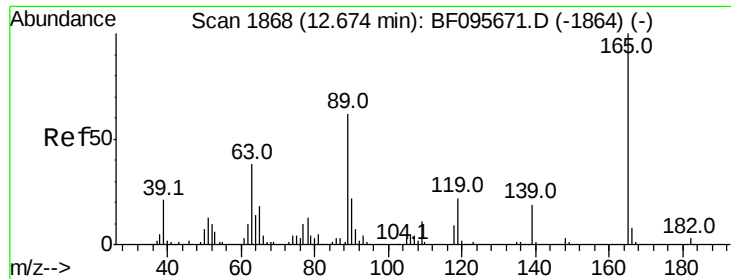
Tot Ion	Ratio	Lower	Upper
172	100		
171	39.4	29.6	44.4
170	24.8	19.8	29.8



#50
 2,6-Dinitrotoluene
 Concen: 7.57 ng
 RT: 12.14 min Scan# 1812
 Delta R.T. 0.23 min
 Lab File: BF096114.D
 Acq: 22 Jun 2017 9:05

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.3	51.5#
89	0.0	37.1	55.7#

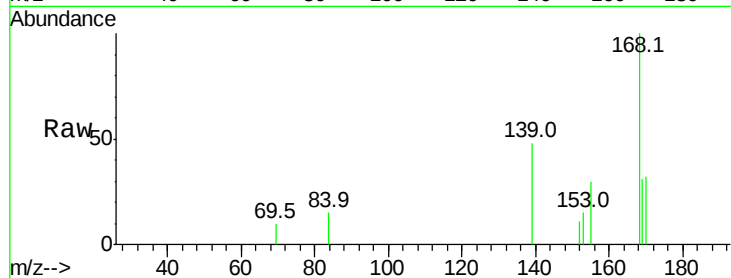




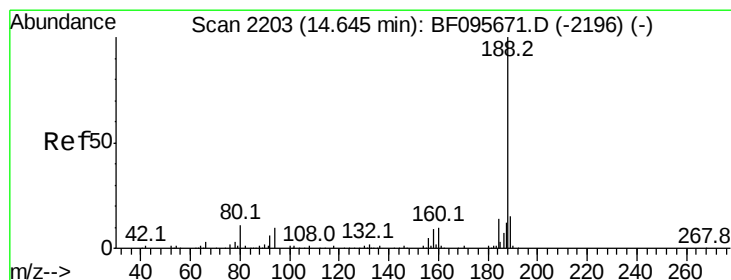
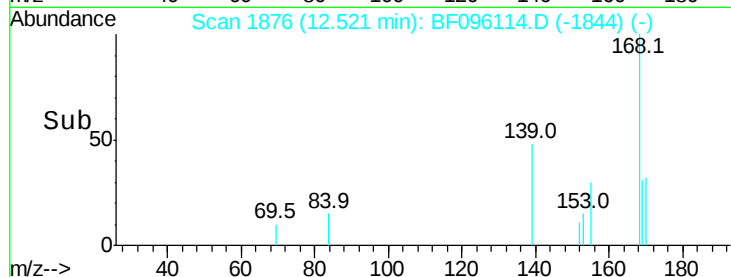
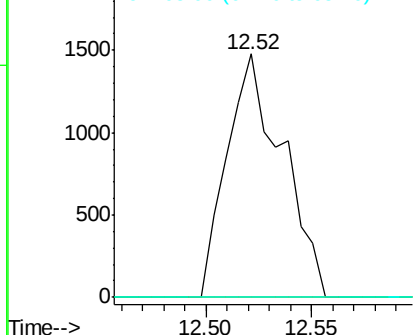
#55
4-Nitrophenol
Concen: 6.75 ng
RT: 12.52 min Scan# 1876
Delta R.T. -0.11 min
Lab File: BF096114.D
Acq: 22 Jun 2017 9:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 2685
Ion Ratio Lower Upper
139 100
109 0.0 34.1 74.1#
65 0.0 31.4 71.4#

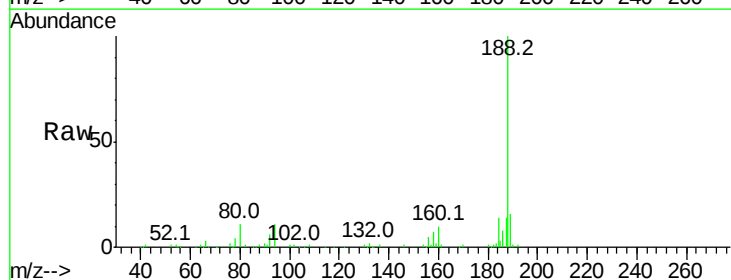


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

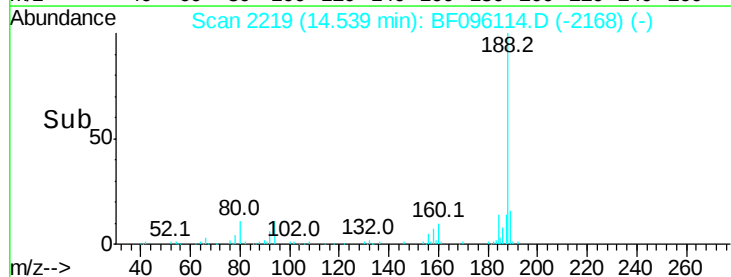
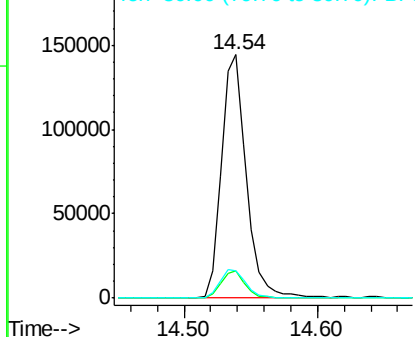


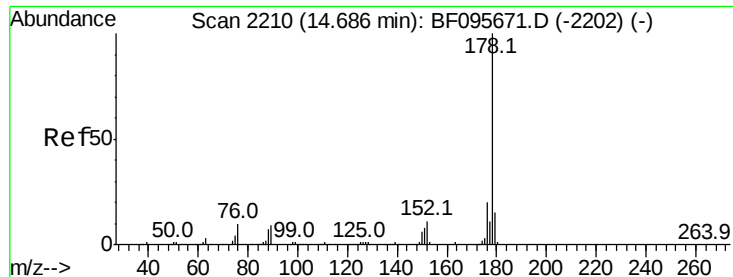
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.54 min Scan# 2219
Delta R.T. 0.00 min
Lab File: BF096114.D
Acq: 22 Jun 2017 9:05

Tgt Ion:188 Resp: 189566
Ion Ratio Lower Upper
188 100
94 11.4 9.4 14.2
80 11.4 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

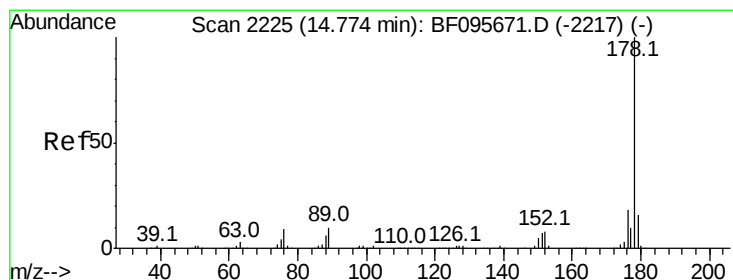
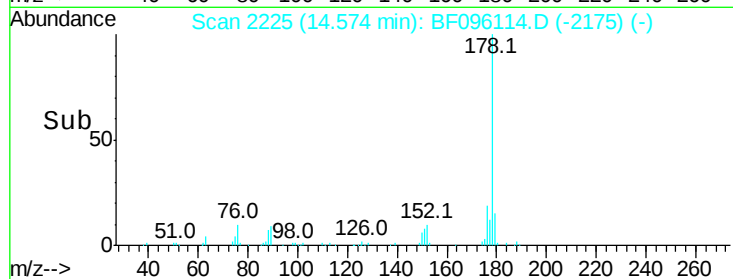
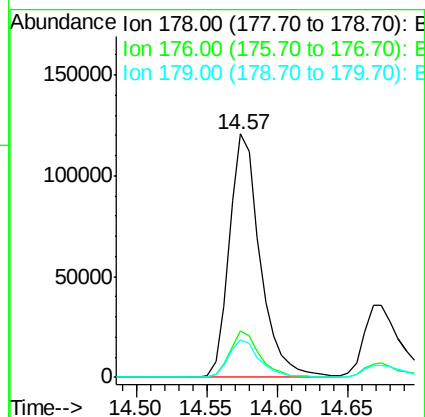
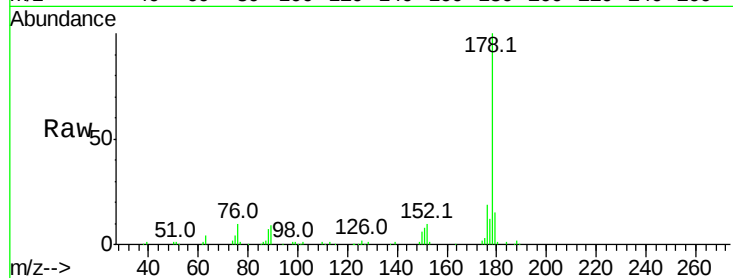




#70
Phenanthrene
Concen: 16.80 ng
RT: 14.57 min Scan# 2225
Delta R.T. -0.01 min
Lab File: BF096114.D
Acq: 22 Jun 2017 9:05

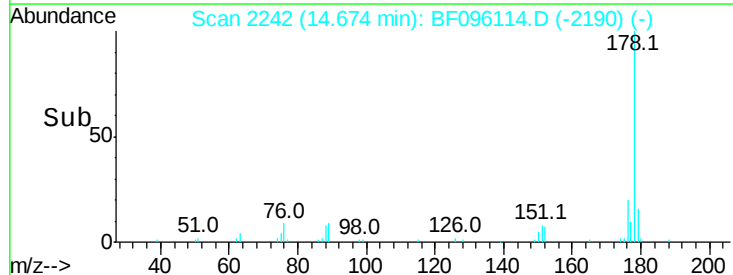
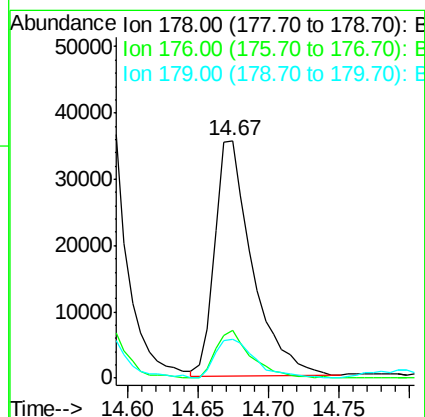
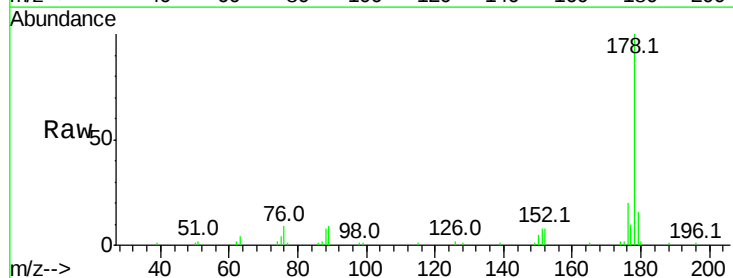
Instrument :
BNA_F
ClientSampleId :

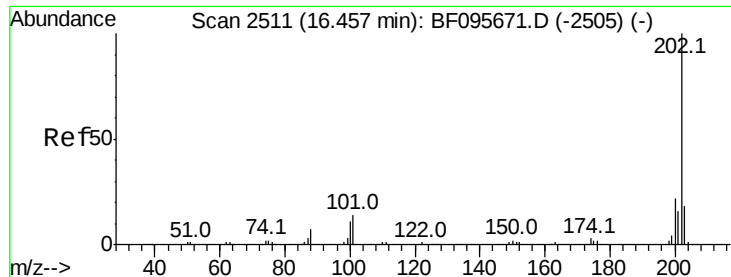
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	16.2	24.4
179	15.4	12.6	19.0



#71
Anthracene
Concen: 5.75 ng
RT: 14.67 min Scan# 2242
Delta R.T. 0.01 min
Lab File: BF096114.D
Acq: 22 Jun 2017 9:05

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.8	23.8
179	16.4	12.7	19.1

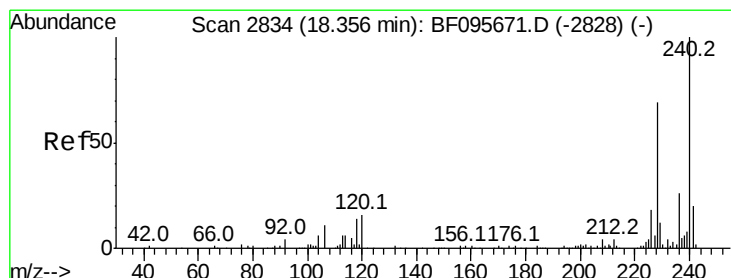
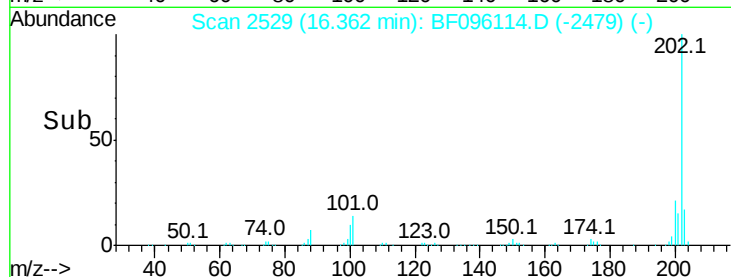
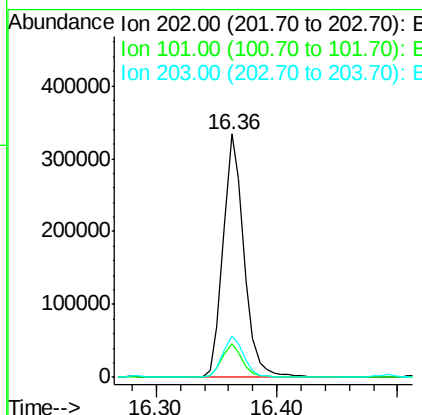
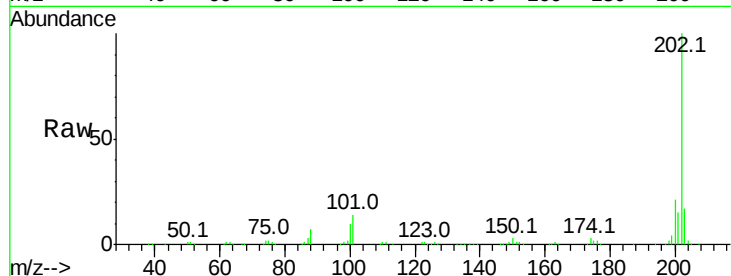




#74
 Fluoranthene
 Concen: 36.89 ng
 RT: 16.36 min Scan# 2529
 Delta R.T. -0.01 min
 Lab File: BF096114.D
 Acq: 22 Jun 2017 9:05

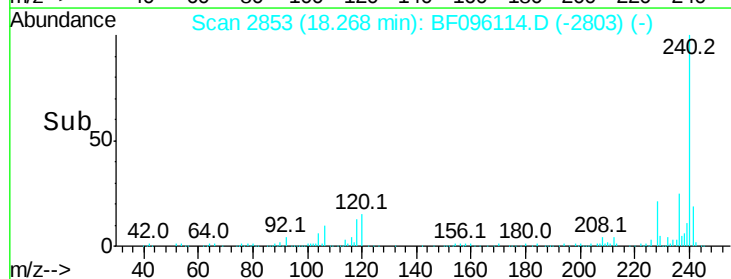
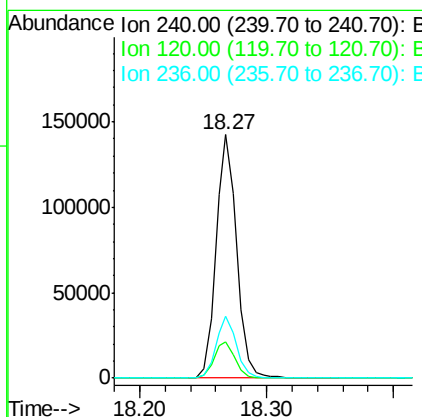
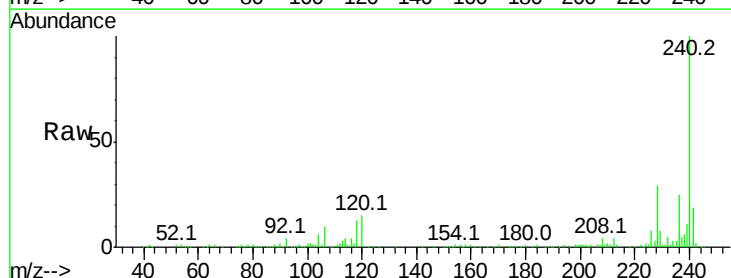
Instrument :
 BNA_F
 ClientSampleId :

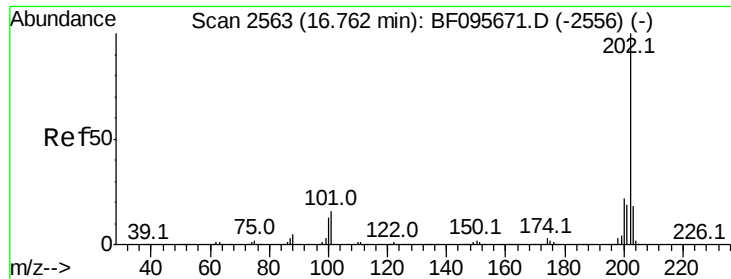
Tot Ion	Ratio	Lower	Upper
202	100		
101	13.8	0.0	33.2
203	16.8	0.0	38.1



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.27 min Scan# 2853
 Delta R.T. -0.01 min
 Lab File: BF096114.D
 Acq: 22 Jun 2017 9:05

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.9	5.8	8.8#
236	25.2	20.5	30.7

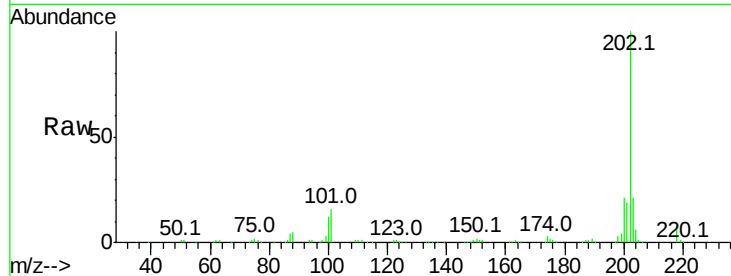




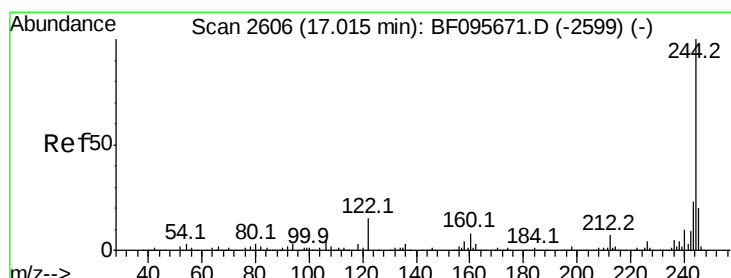
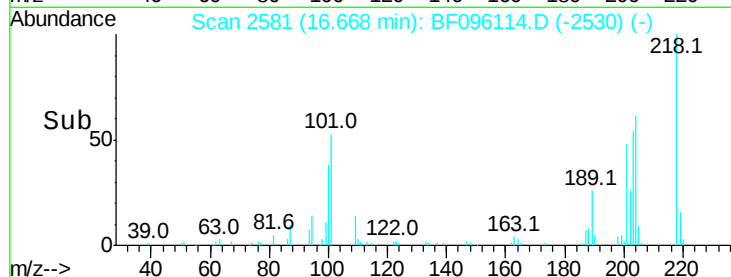
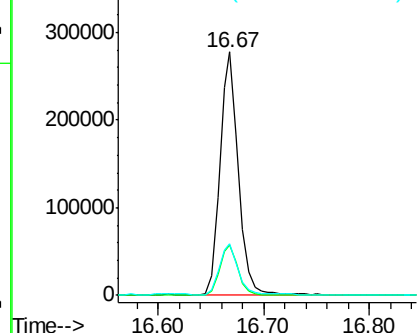
#77
Pvrene
Concen: 28.08 ng
RT: 16.67 min Scan# 2581
Delta R.T. 0.00 min
Lab File: BF096114.D
Acq: 22 Jun 2017 9:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 339732
Ion Ratio Lower Upper
202 100
200 20.9 17.6 26.4
203 21.1 14.4 21.6

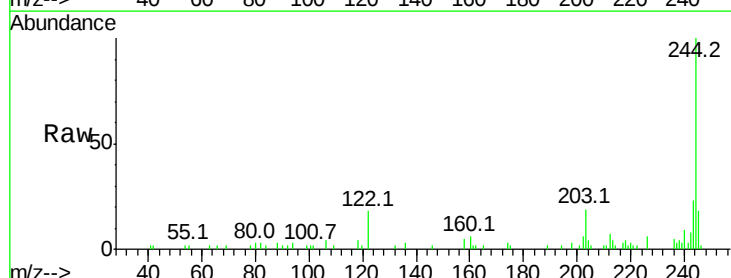


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

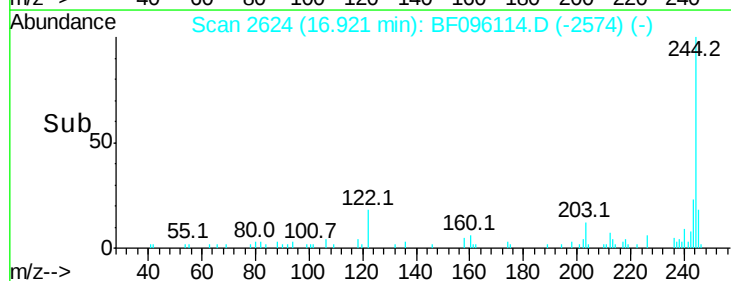
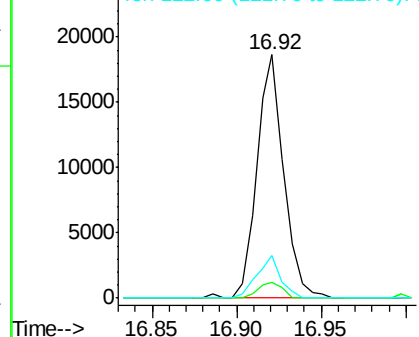


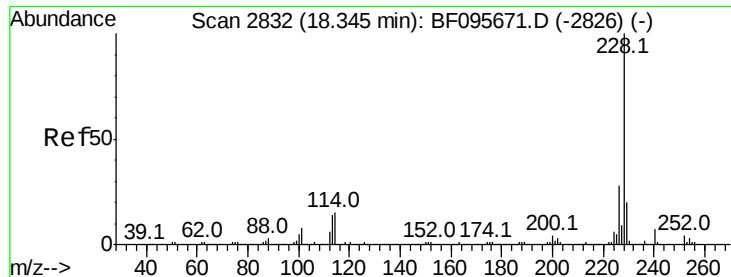
#78
Terphenyl-d14
Concen: 3.15 ng
RT: 16.92 min Scan# 2624
Delta R.T. -0.01 min
Lab File: BF096114.D
Acq: 22 Jun 2017 9:05

Tgt Ion:244 Resp: 20600
Ion Ratio Lower Upper
244 100
212 6.7 6.0 9.0
122 17.6 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: 15.27 ng

RT: 18.26 min Scan# 2851

Delta R.T. -0.01 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

Instrument :

BNA_F

ClientSampleId :

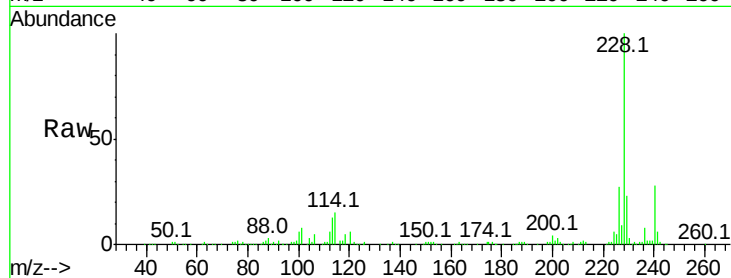
Tot Ion:228 Resp: 143953

Ion Ratio Lower Upper

228 100

226 27.4 22.6 33.8

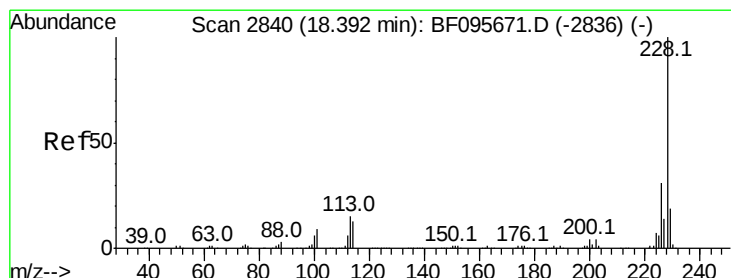
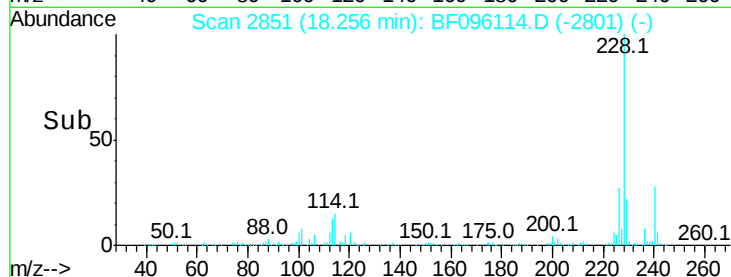
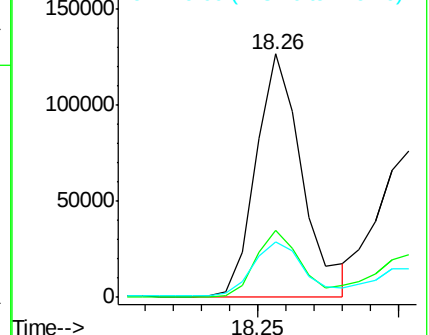
229 23.0 16.3 24.5



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: 11.95 ng

RT: 18.30 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

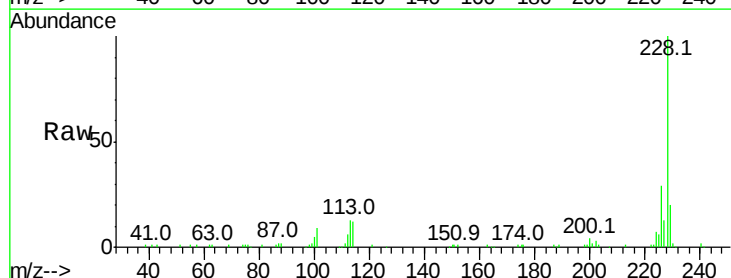
Tgt Ion:228 Resp: 112550

Ion Ratio Lower Upper

228 100

226 29.1 24.9 37.3

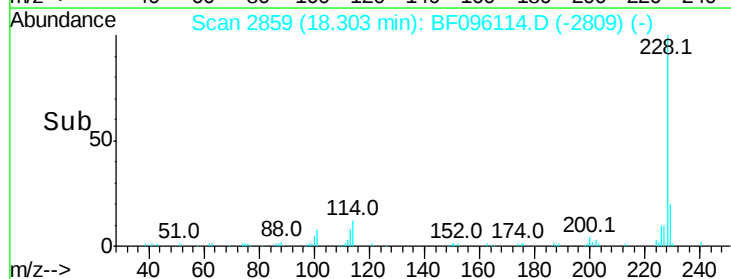
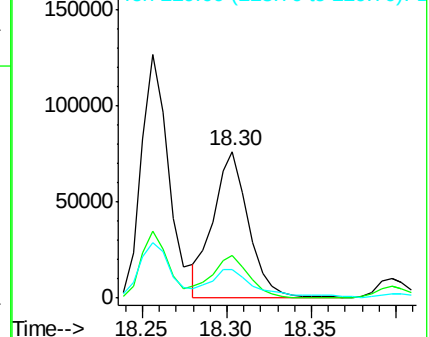
229 19.6 15.8 23.6

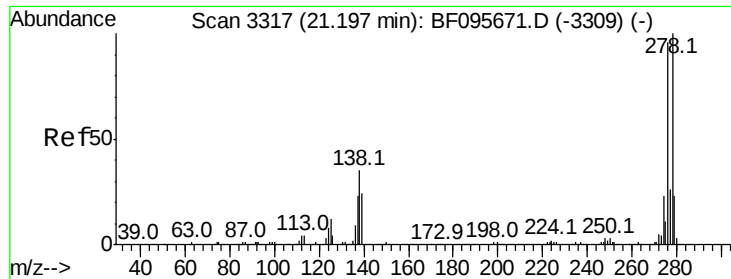


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

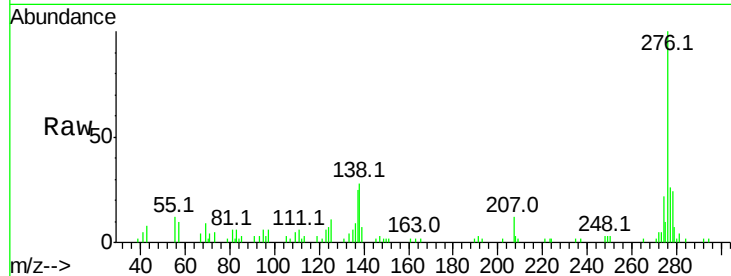




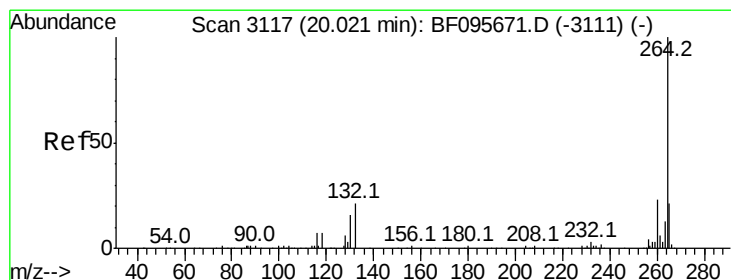
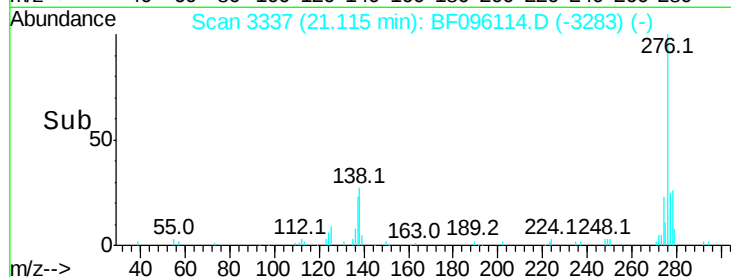
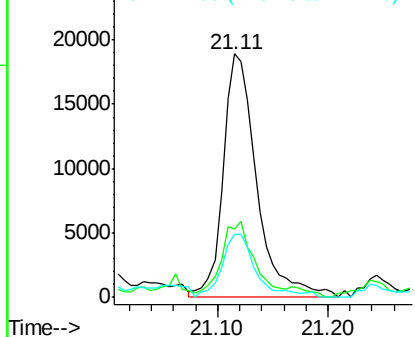
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.99 ng
RT: 21.11 min Scan# 3337
Delta R.T. 0.02 min
Lab File: BF096114.D
Acq: 22 Jun 2017 9:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:276 Resp: 40249
Ion Ratio Lower Upper
276 100
138 26.2 27.8 41.6#
277 26.4 20.2 30.4

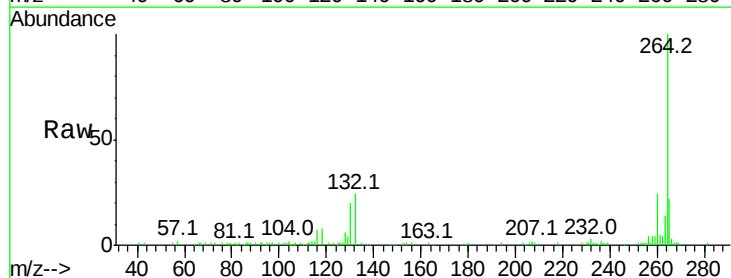


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

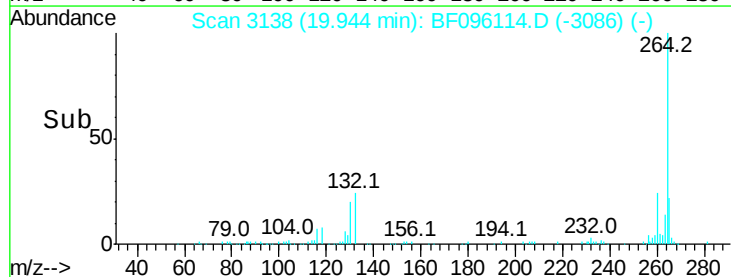
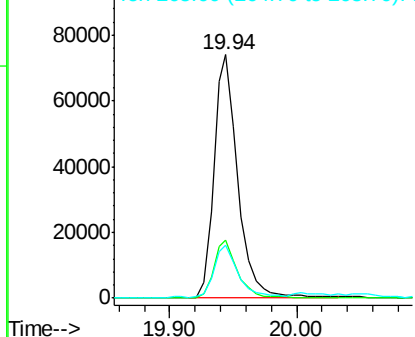


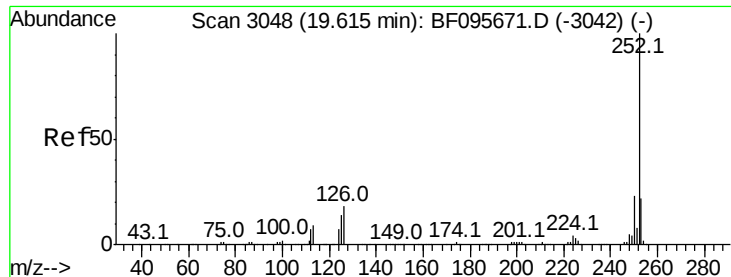
#86
Perylene-d12
Concen: 20.00 ng
RT: 19.94 min Scan# 3138
Delta R.T. 0.01 min
Lab File: BF096114.D
Acq: 22 Jun 2017 9:05

Tgt Ion:264 Resp: 97290
Ion Ratio Lower Upper
264 100
260 23.9 19.5 29.3
265 21.9 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: 23.35 ng

RT: 19.54 min Scan# 3069

Delta R.T. 0.00 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

Instrument :

BNA_F

ClientSampleId :

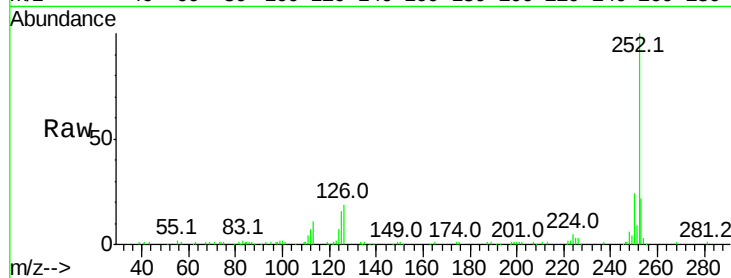
Tot Ion:252 Resp: 142230

Ion Ratio Lower Upper

252 100

253 21.5 18.1 27.1

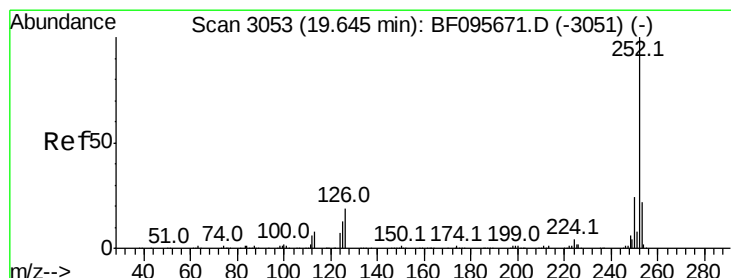
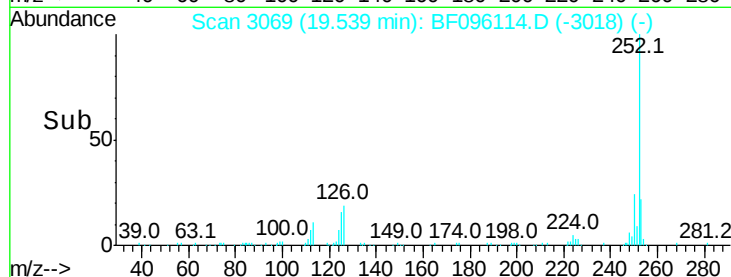
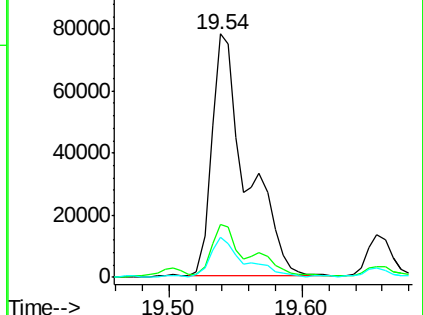
125 16.4 9.8 14.8#



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: 24.43 ng

RT: 19.54 min Scan# 3069

Delta R.T. -0.03 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

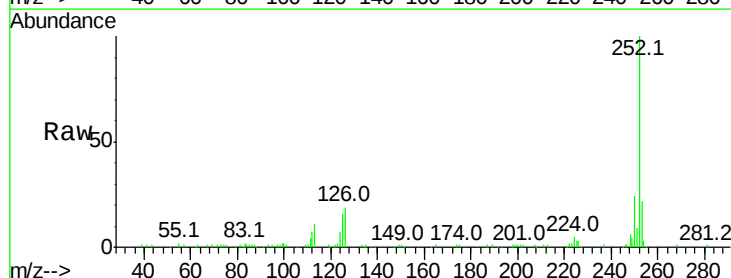
Tgt Ion:252 Resp: 142230

Ion Ratio Lower Upper

252 100

253 21.5 18.4 27.6

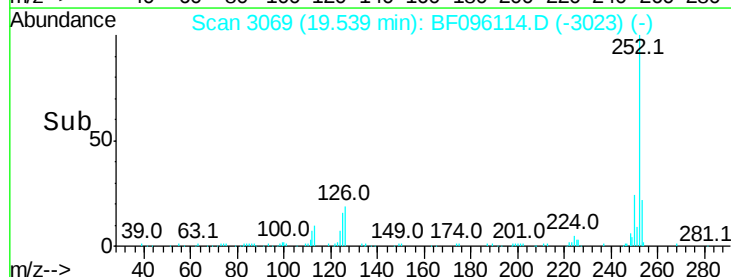
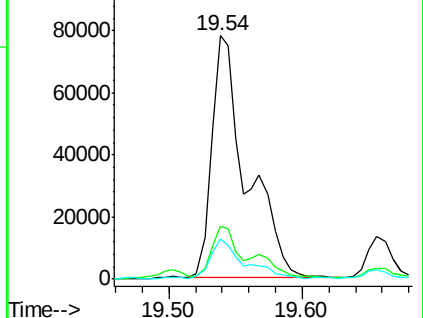
125 16.4 13.1 19.7

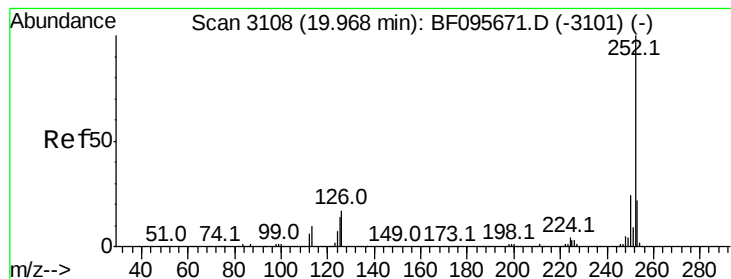


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 14.08 ng

RT: 19.89 min Scan# 3129

Delta R.T. 0.01 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

Instrument :

BNA_F

ClientSampleId :

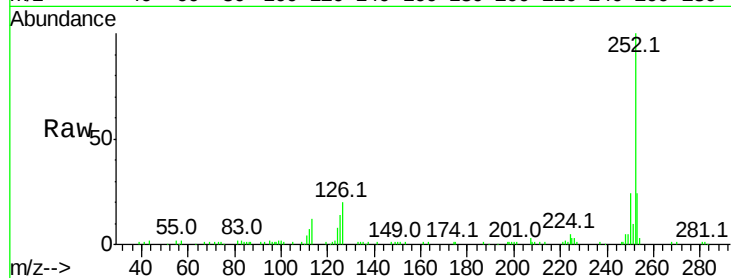
Tot Ion:252 Resp: 78847

Ion Ratio Lower Upper

252 100

253 23.8 17.5 26.3

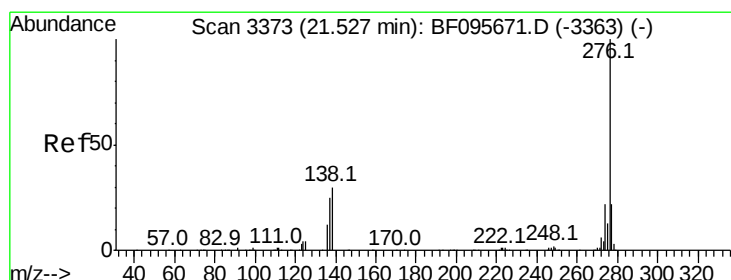
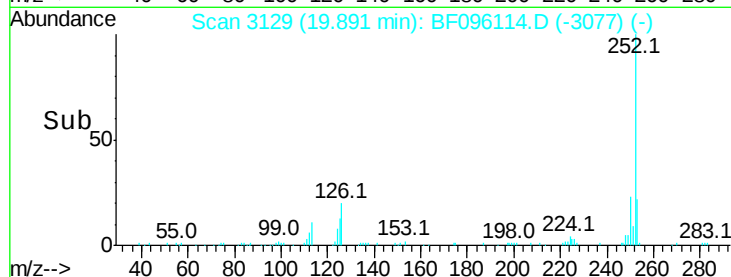
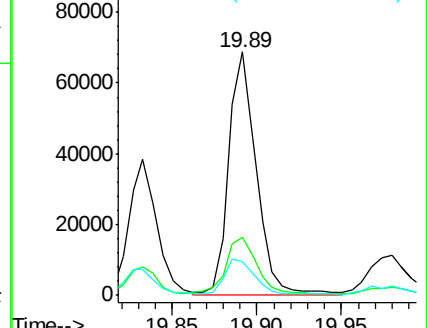
125 13.6 11.0 16.4



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: 7.45 ng

RT: 21.44 min Scan# 3393

Delta R.T. 0.02 min

Lab File: BF096114.D

Acq: 22 Jun 2017 9:05

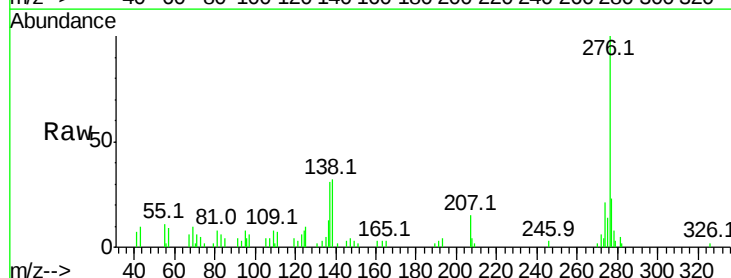
Tgt Ion:276 Resp: 36064

Ion Ratio Lower Upper

276 100

277 23.5 18.6 28.0

138 31.9 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

