

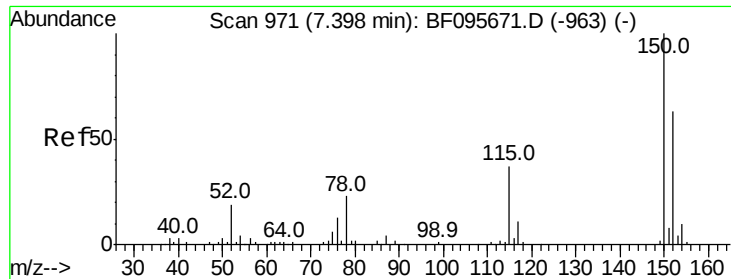
Data Path : Z:\HPCHEM1\BNA F\DATA\BF062417\
 Data File : BF096188.D
 Acq On : 24 Jun 2017 13:59
 Operator : SJ/MA
 Sample : I3851-06
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 26 01:21:46 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	7.26	152	70716	20.00	ng	-0.03
21) Naphthalene-d8	9.29	136	272828	20.00	ng	-0.04
38) Acenaphthene-d10	12.12	164	109531	20.00	ng	-0.04
63) Phenanthrene-d10	14.51	188	158184	20.00	ng	-0.03
75) Chrysene-d12	18.25	240	139059	20.00	ng	-0.02
86) Perylene-d12	19.93	264	114297	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.15	112	457033	102.98	ng	-0.04
7) Phenol-d6	6.85	99	539740	101.59	ng	-0.03
23) Nitrobenzene-d5	8.19	82	328130	74.69	ng	-0.04
41) 2,4,6-Tribromophenol	13.42	330	80854	83.43	ng	-0.04
44) 2-Fluorobiphenyl	11.07	172	513724	65.27	ng	-0.04
78) Terphenyl-d14	16.90	244	288465	51.48	ng	-0.03
Target Compounds						Qvalue
2) 1,4-Dioxane	1.54	88	24907	11.80	ng	# 21
19) n-Nitroso-di-n-propylamine	8.19	70	41138	12.22	ng	# 76
32) Benzoic acid	9.31	122	1835	5.80	ng	93
49) Dimethylphthalate	11.77	163	93410	11.23	ng	99
51) Acenaphthene	12.17	154	16933	2.43	ng	96
55) 4-Nitrophenol	12.72	139	110	4.71	ng	# 25
57) Fluorene	13.02	166	17293	2.03	ng	100
70) Phenanthrene	14.55	178	281296	30.82	ng	99
71) Anthracene	14.55	178	281296	29.52	ng	99
74) Fluoranthene	16.34	202	171228	18.95	ng	99
77) Pyrene	16.64	202	274410	26.45	ng	# 93
80) Benzo(a)anthracene	18.24	228	111127	13.74	ng	96
82) Chrysene	18.29	228	123692	15.31	ng	99
85) Indeno(1,2,3-cd)pyrene	21.10	276	25078	3.63	ng	# 92
87) Benzo(b)fluoranthene	19.53	252	100950	14.11	ng	# 96
88) Benzo(k)fluoranthene	19.53	252	100950	14.76	ng	98
89) Benzo(a)pyrene	19.87	252	70639	10.74	ng	98
90) Dibenzo(a,h)anthracene	21.08	278	12719	2.28	ng	# 78
91) Benzo(a,h,i)perylene	21.42	276	31786	5.59	ng	99

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

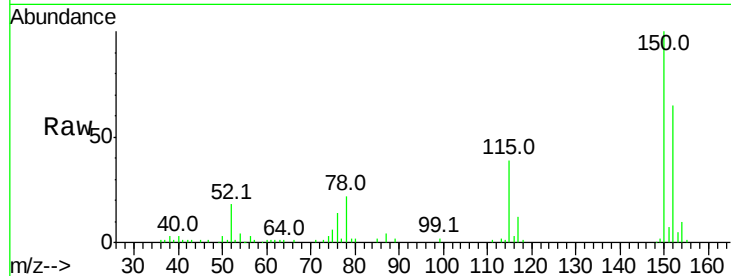


#1

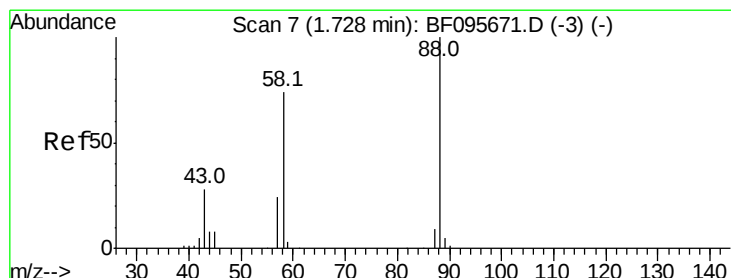
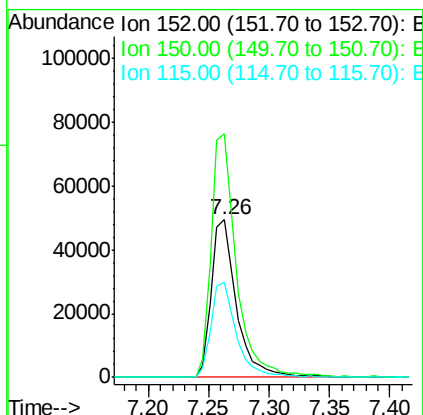
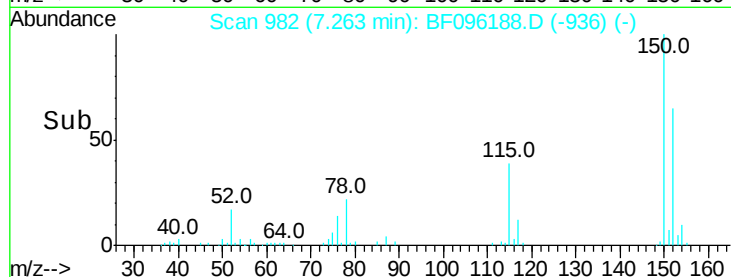
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.26 min Scan# 982
Delta R.T. -0.03 min
Lab File: BF096188.D
Acq: 24 Jun 2017 13:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 70716
Ion Ratio Lower Upper
152 100
150 154.8 126.2 189.2
115 60.5 52.2 78.2



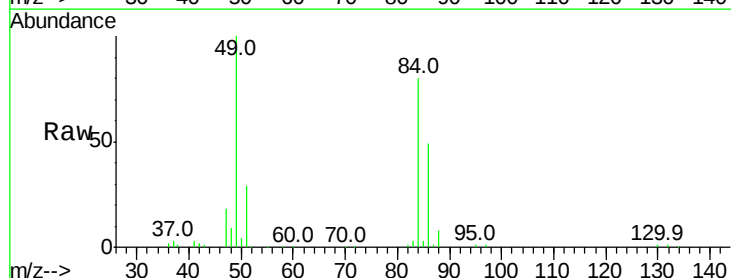
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



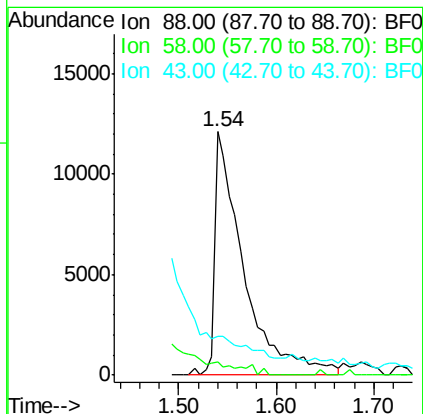
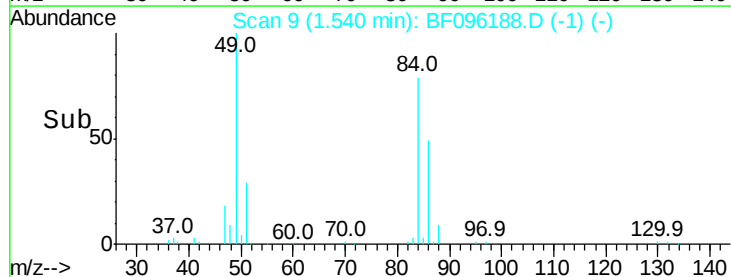
#2

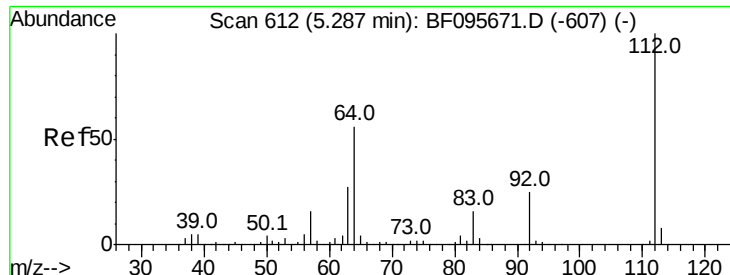
1,4-Dioxane
Concen: 11.80 ng
RT: 1.54 min Scan# 9
Delta R.T. -0.07 min
Lab File: BF096188.D
Acq: 24 Jun 2017 13:59

Tgt Ion: 88 Resp: 24907
Ion Ratio Lower Upper
88 100
58 0.0 61.4 92.0#
43 0.0 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: 102.98 ng

RT: 5.15 min Scan# 622

Delta R.T. -0.04 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

Instrument :

BNA_F

ClientSampleId :

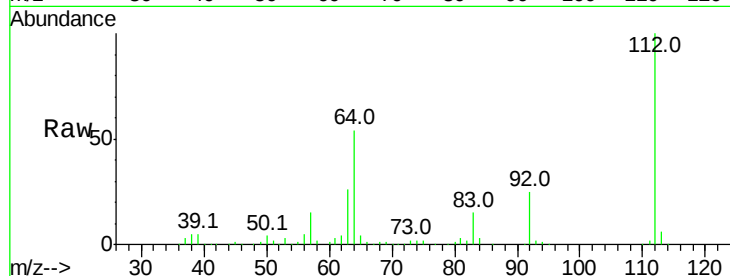
Tot Ion:112 Resp: 457033

Ion Ratio Lower Upper

112 100

64 53.7 46.0 69.0

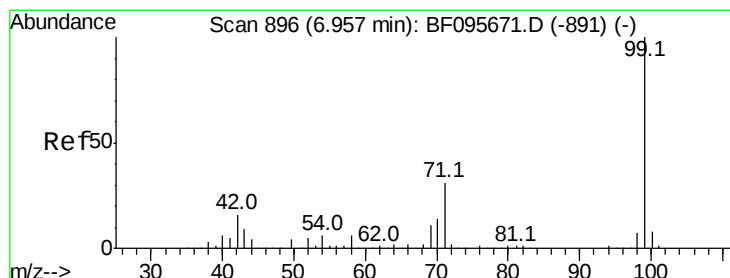
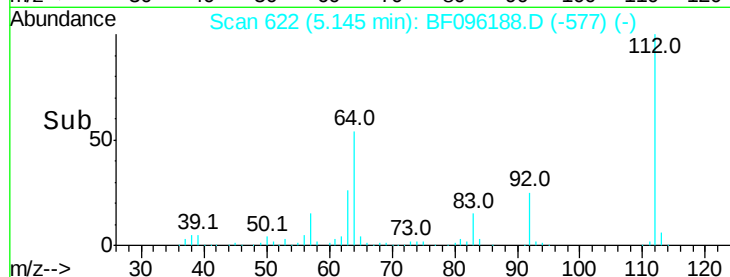
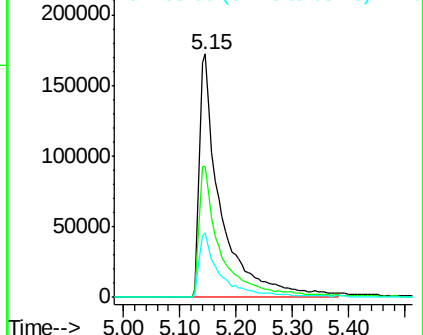
63 26.4 23.4 35.0



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: 101.59 ng

RT: 6.85 min Scan# 911

Delta R.T. -0.03 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

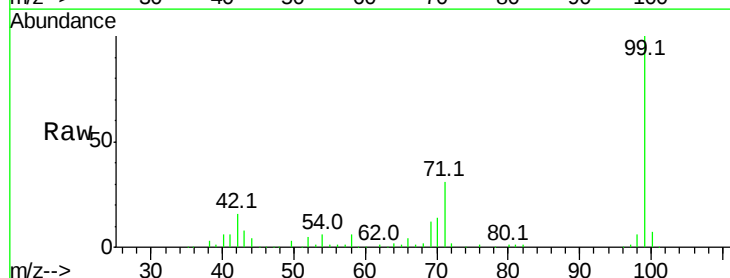
Tgt Ion: 99 Resp: 539740

Ion Ratio Lower Upper

99 100

42 15.9 13.5 20.3

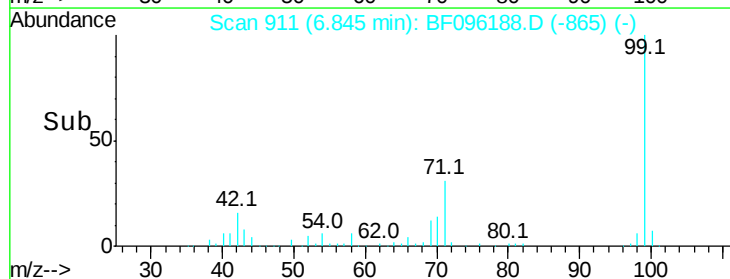
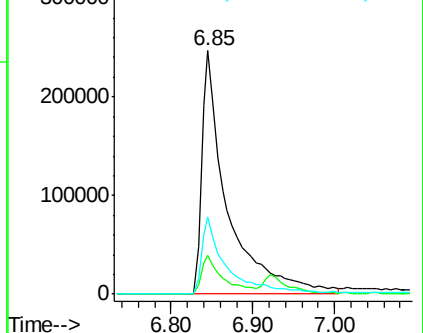
71 31.5 24.5 36.7

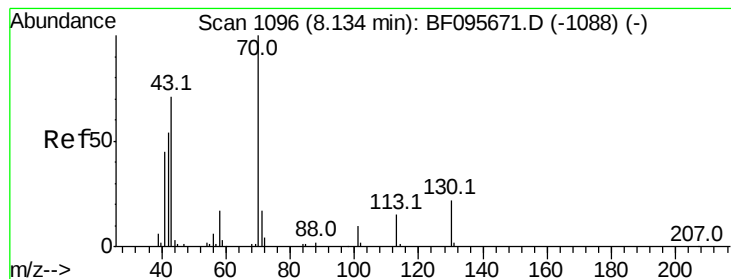


Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 12.22 ng

RT: 8.19 min Scan# 1139

Delta R.T. 0.15 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 41138

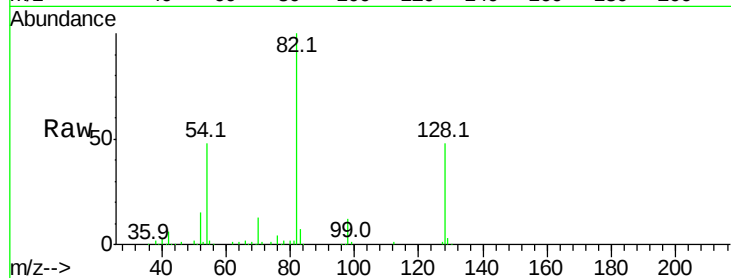
Ion Ratio Lower Upper

70 100

42 45.0 47.2 70.8#

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

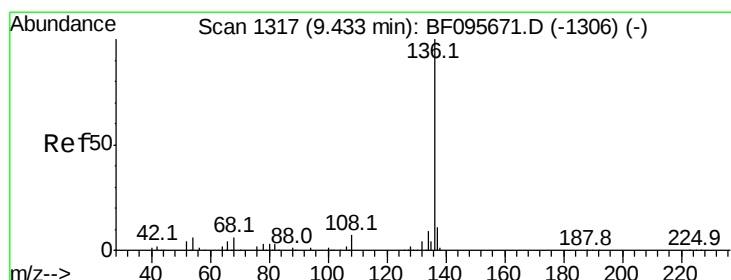
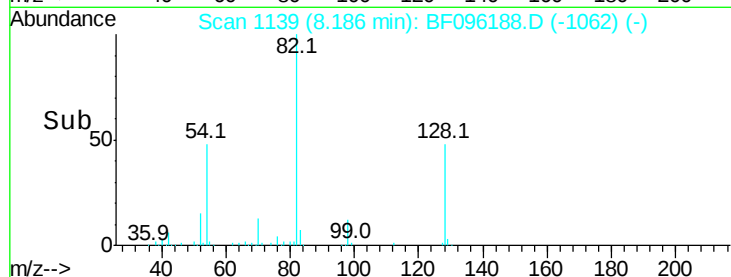
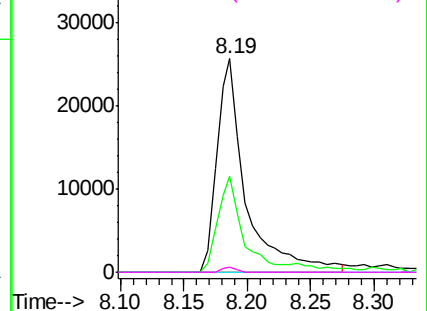


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 9.29 min Scan# 1327

Delta R.T. -0.04 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

Tgt Ion:136 Resp: 272828

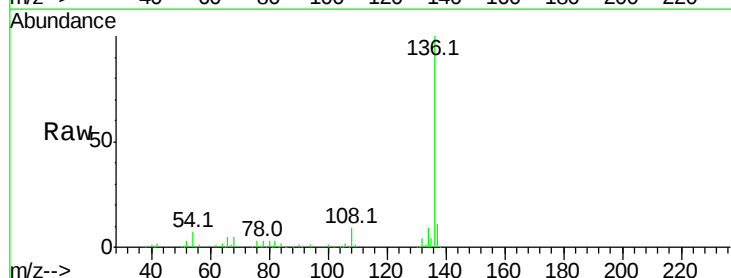
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 7.3 4.9 7.3

68 5.4 4.1 6.1

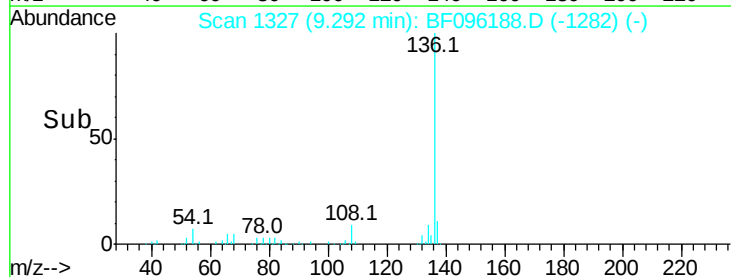
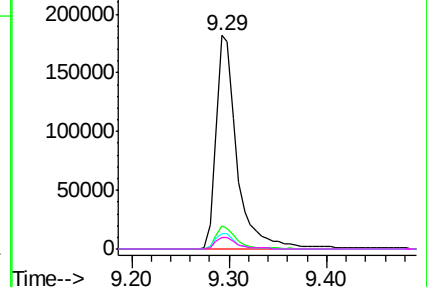


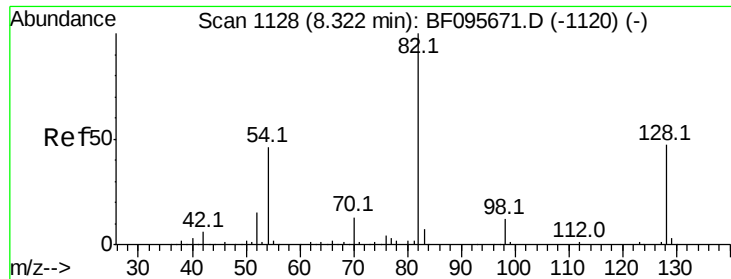
Abundance Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

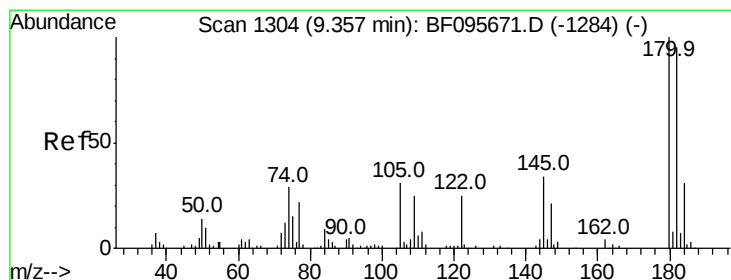
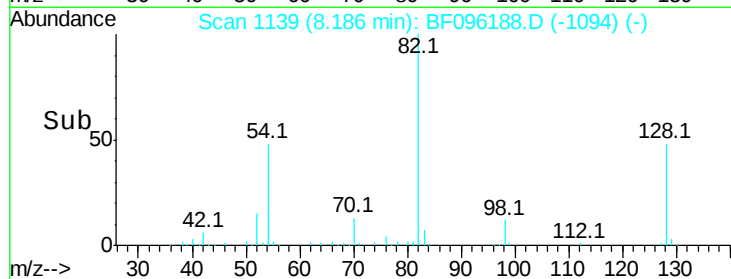
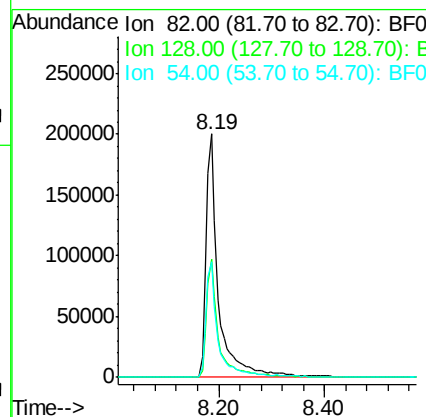
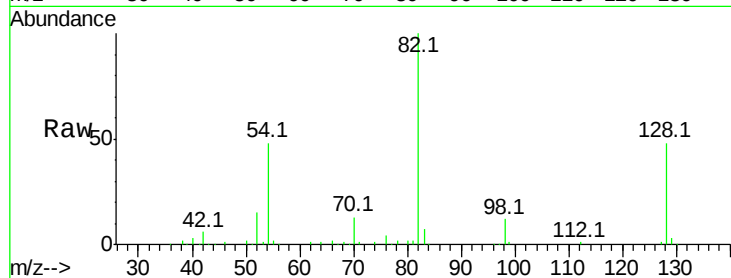




#23
 Nitrobenzene-d5
 Concen: 74.69 ng
 RT: 8.19 min Scan# 1139
 Delta R.T. -0.04 min
 Lab File: BF096188.D
 Acq: 24 Jun 2017 13:59

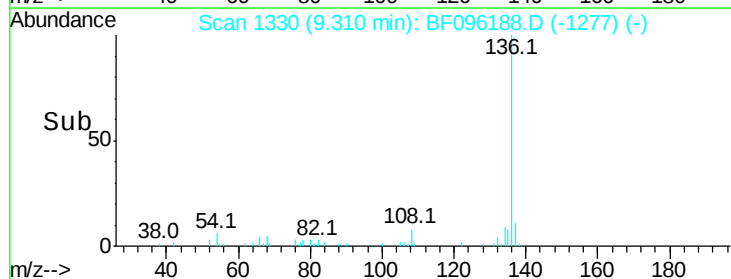
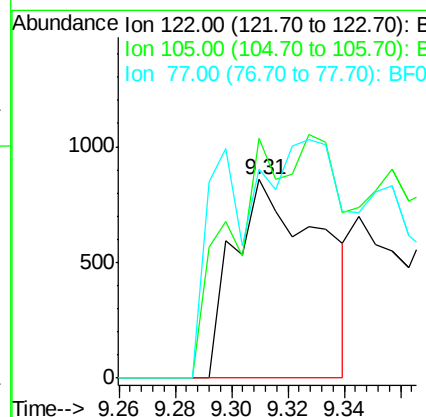
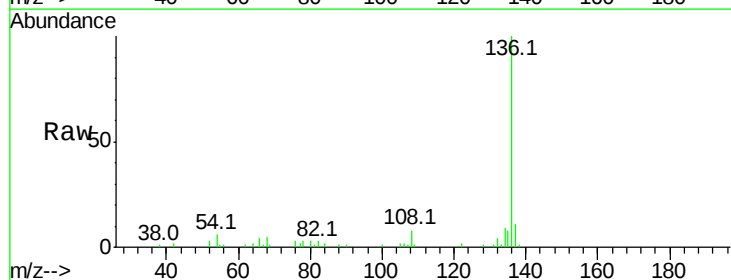
Instrument :
 BNA_F
 ClientSampled :

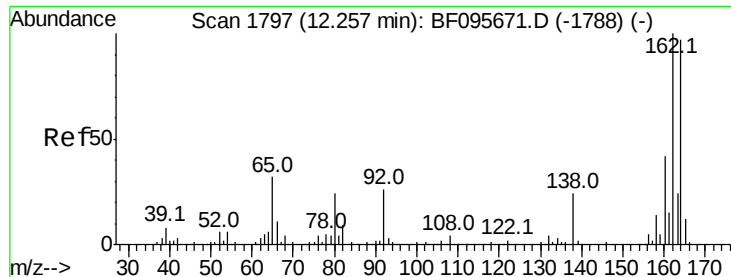
Tot Ion: 82 Resp: 328130
 Ion Ratio Lower Upper
 82 100
 128 48.4 34.0 51.0
 54 47.6 42.2 63.2



#32
 Benzoic acid
 Concen: 5.80 ng
 RT: 9.31 min Scan# 1330
 Delta R.T. 0.01 min
 Lab File: BF096188.D
 Acq: 24 Jun 2017 13:59

Tgt Ion:122 Resp: 1835
 Ion Ratio Lower Upper
 122 100
 105 120.5 103.3 143.3
 77 105.4 73.7 113.7

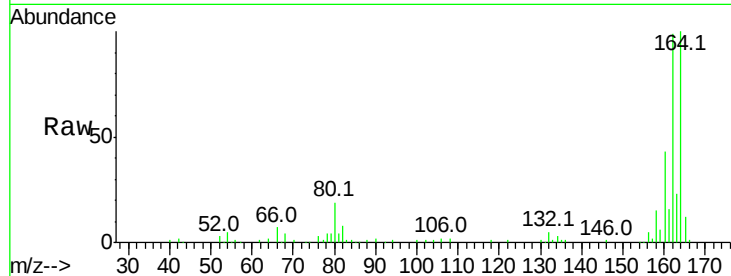




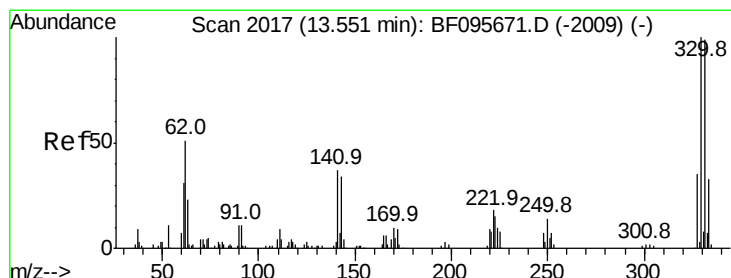
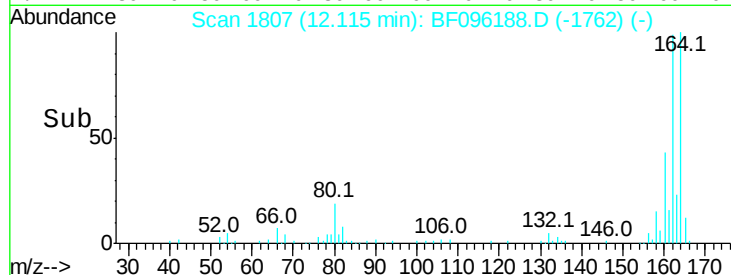
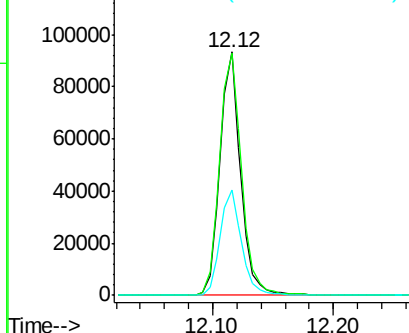
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.12 min Scan# 1807
Delta R.T. -0.04 min
Lab File: BF096188.D
Acq: 24 Jun 2017 13:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 109531
Ion Ratio Lower Upper
164 100
162 99.4 82.6 123.8
160 43.3 36.2 54.2

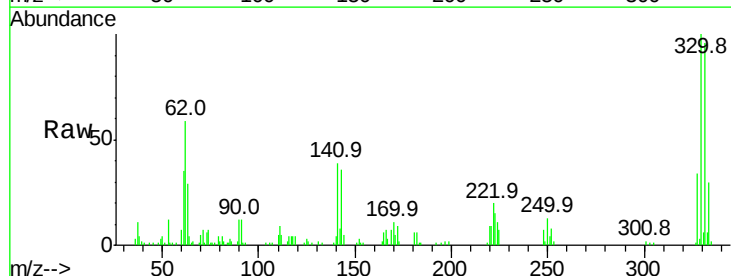


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

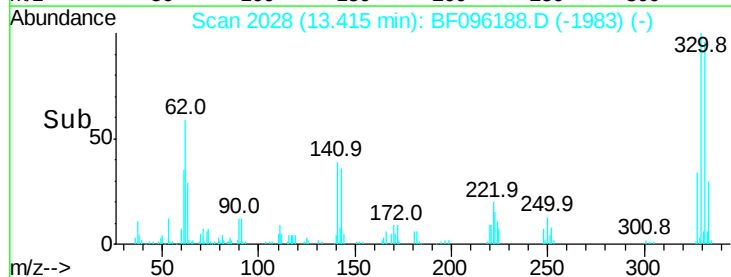
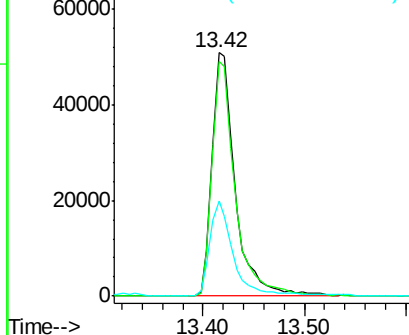


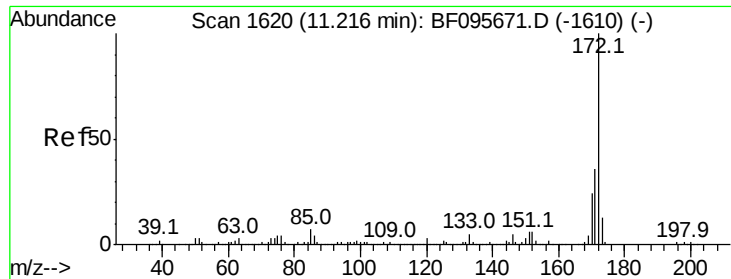
#41
2,4,6-Tribromophenol
Concen: 83.43 ng
RT: 13.42 min Scan# 2028
Delta R.T. -0.04 min
Lab File: BF096188.D
Acq: 24 Jun 2017 13:59

Tgt Ion:330 Resp: 80854
Ion Ratio Lower Upper
330 100
332 96.7 76.6 115.0
141 40.6 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

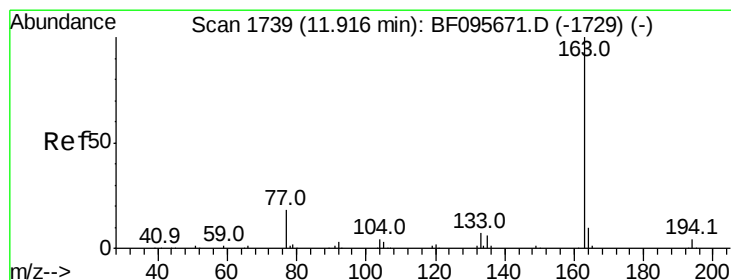
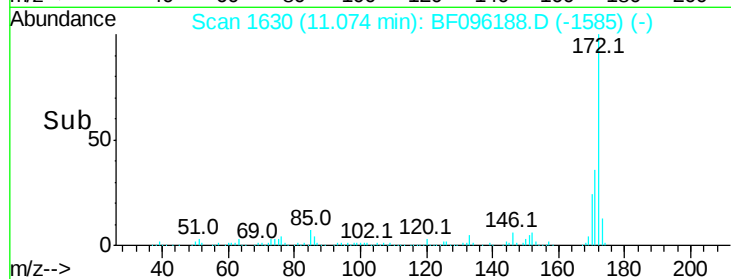
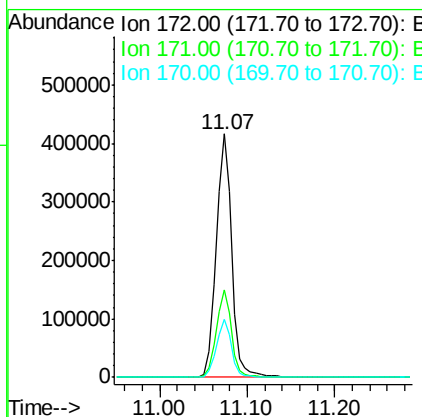
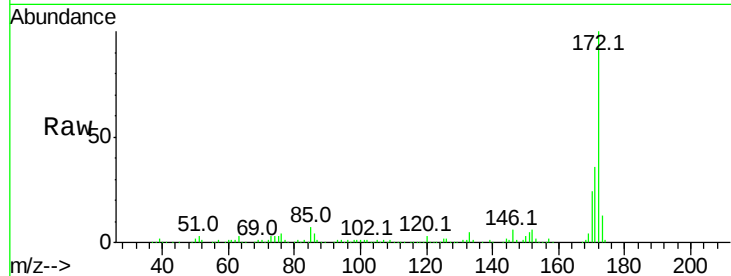




#44
2-Fluorobiphenyl
Concen: 65.27 ng
RT: 11.07 min Scan# 1630
Delta R.T. -0.04 min
Lab File: BF096188.D
Acq: 24 Jun 2017 13:59

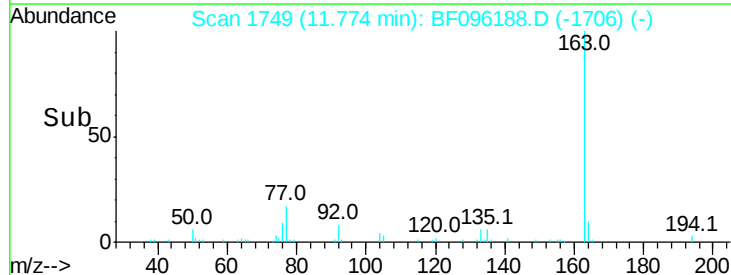
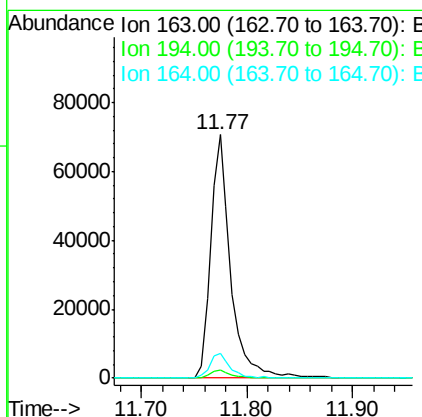
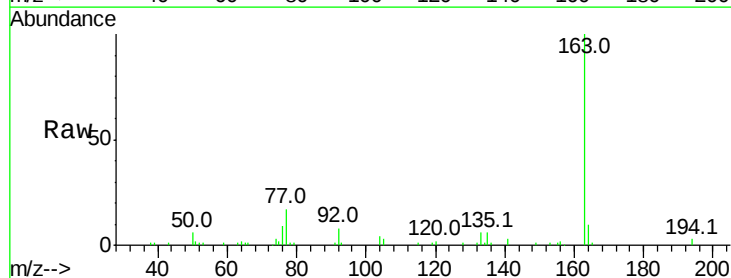
Instrument :
BNA_F
ClientSampleId :

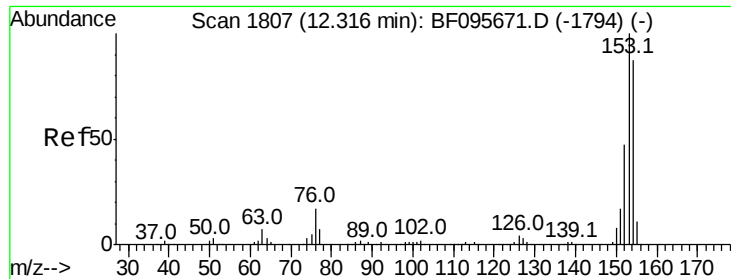
Tot Ion:172 Resp: 513724
Ion Ratio Lower Upper
172 100
171 35.9 29.6 44.4
170 24.0 19.8 29.8



#49
Dimethylphthalate
Concen: 11.23 ng
RT: 11.77 min Scan# 1749
Delta R.T. -0.05 min
Lab File: BF096188.D
Acq: 24 Jun 2017 13:59

Tgt Ion:163 Resp: 93410
Ion Ratio Lower Upper
163 100
194 3.2 2.6 4.0
164 10.0 8.4 12.6





#51

Acenaphthene

Concen: 2.43 ng

RT: 12.17 min Scan# 1816

Delta R.T. -0.04 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

Instrument :

BNA_F

ClientSampleId :

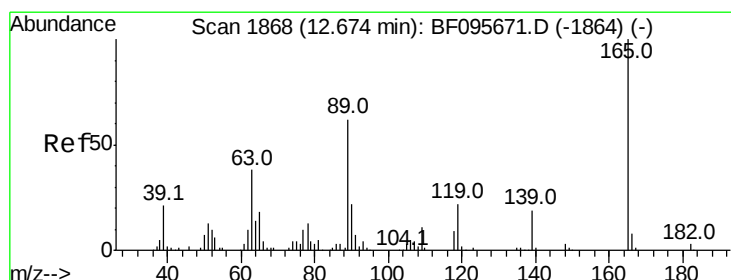
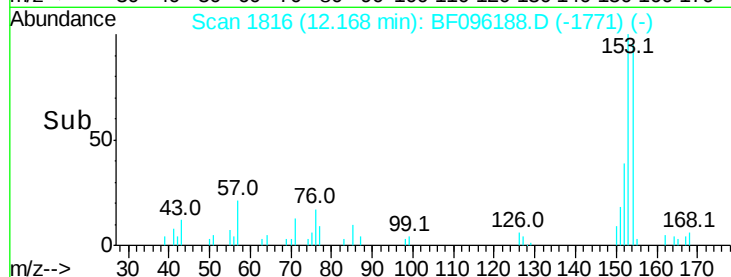
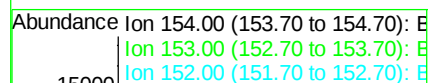
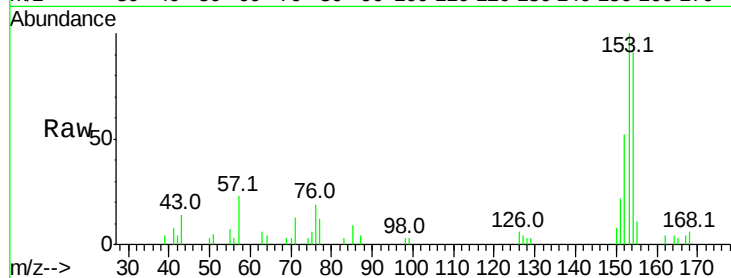
Tot Ion:154 Resp: 16933

Ion Ratio Lower Upper

154 100

153 109.4 90.5 135.7

152 57.3 43.6 65.4



#55

4-Nitrophenol

Concen: 4.71 ng

RT: 12.72 min Scan# 1909

Delta R.T. 0.08 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

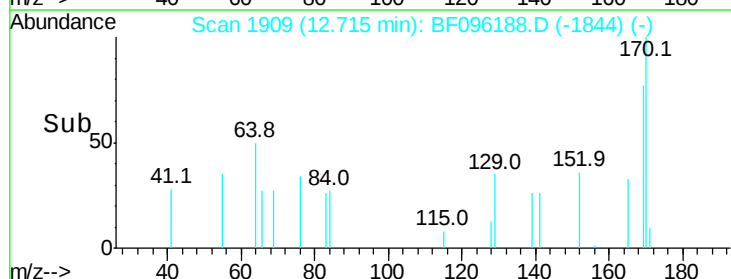
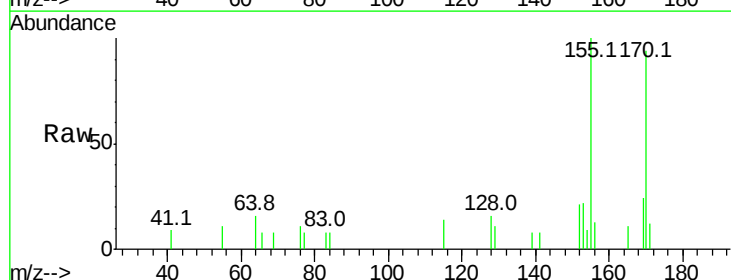
Tgt Ion:139 Resp: 110

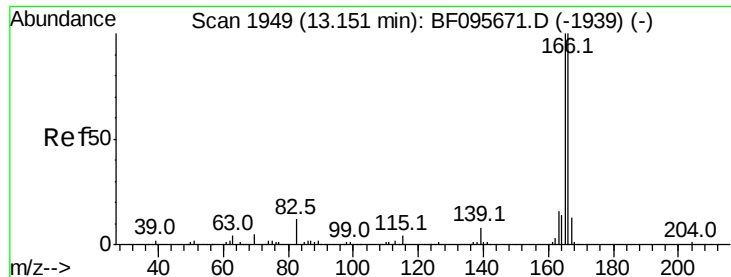
Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

65 0.0 31.4 71.4#

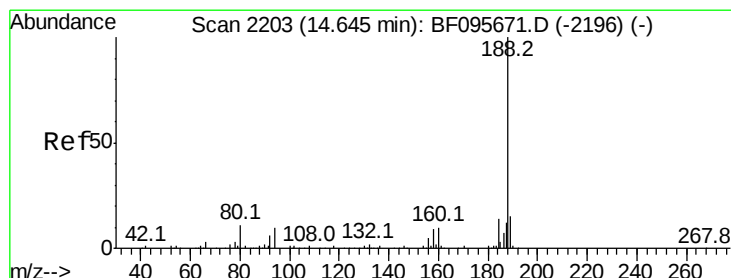
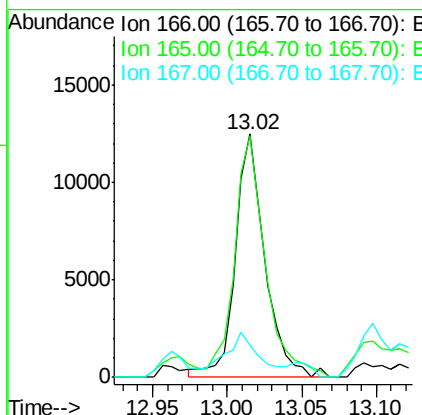
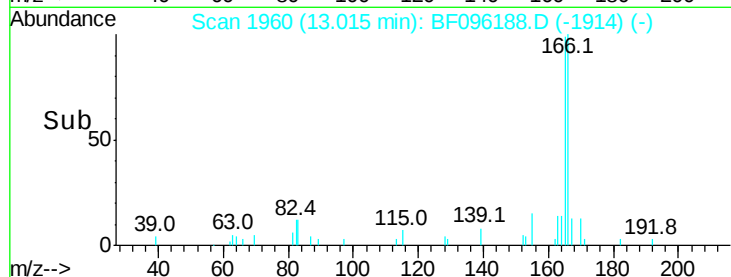
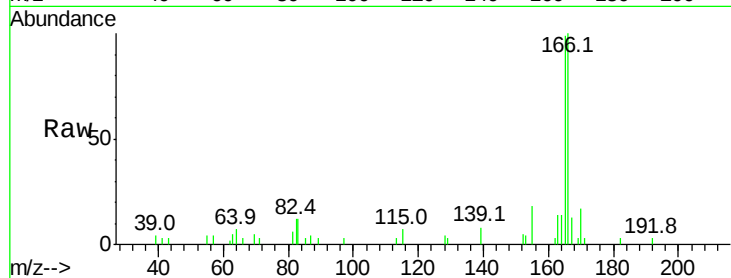




#57
 Fluorene
 Concen: 2.03 ng
 RT: 13.02 min Scan# 1960
 Delta R.T. -0.03 min
 Lab File: BF096188.D
 Acq: 24 Jun 2017 13:59

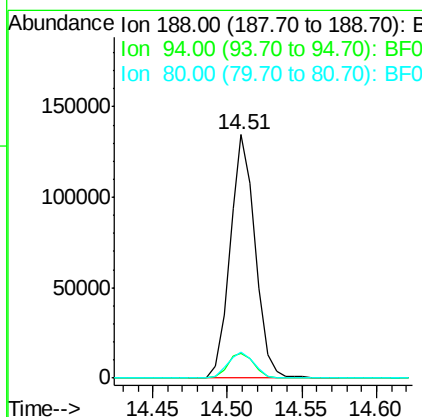
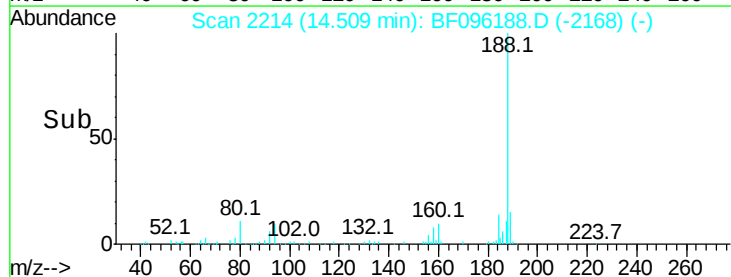
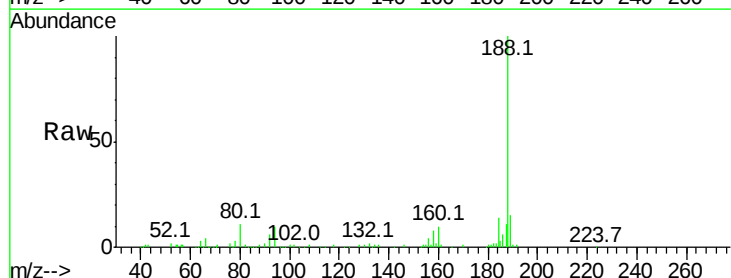
Instrument :
 BNA_F
 ClientSampleId :

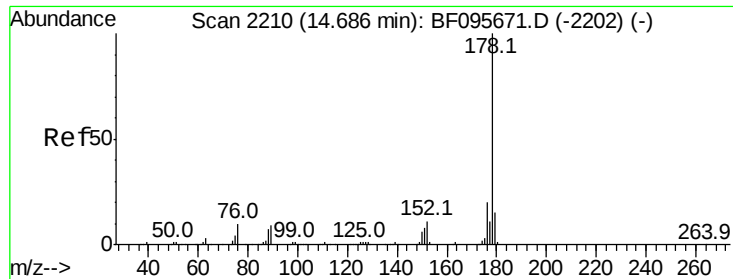
Tot Ion:166 Resp: 17293
 Ion Ratio Lower Upper
 166 100
 165 99.0 78.8 118.2
 167 13.3 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.51 min Scan# 2214
 Delta R.T. -0.03 min
 Lab File: BF096188.D
 Acq: 24 Jun 2017 13:59

Tgt Ion:188 Resp: 158184
 Ion Ratio Lower Upper
 188 100
 94 10.3 9.4 14.2
 80 10.8 10.2 15.2

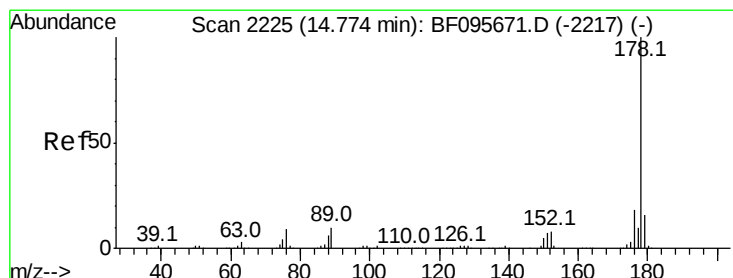
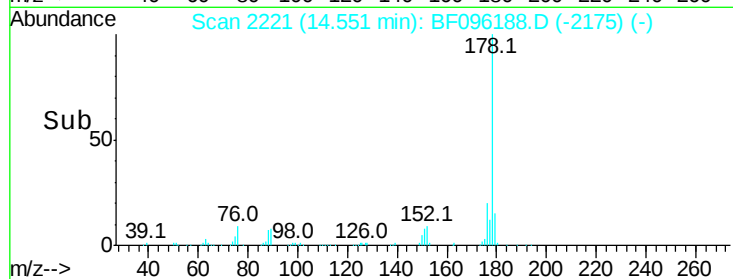
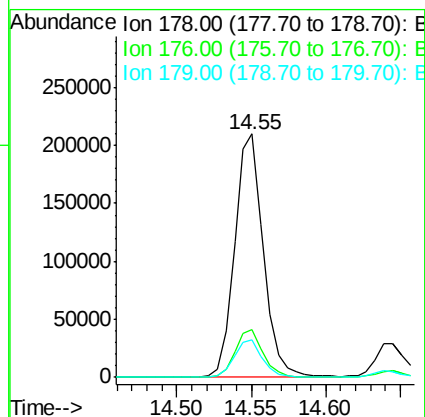
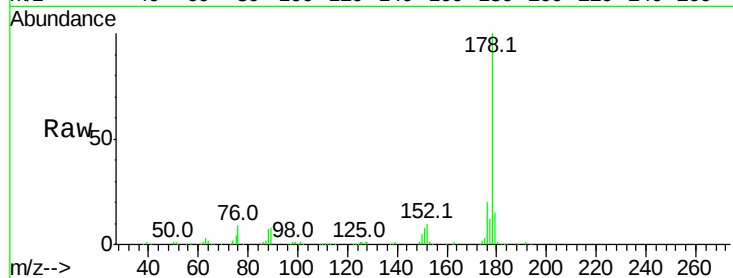




#70
Phenanthrene
Concen: 30.82 ng
RT: 14.55 min Scan# 2221
Delta R.T. -0.03 min
Lab File: BF096188.D
Acq: 24 Jun 2017 13:59

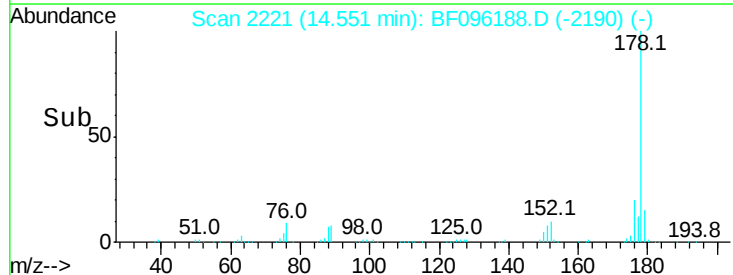
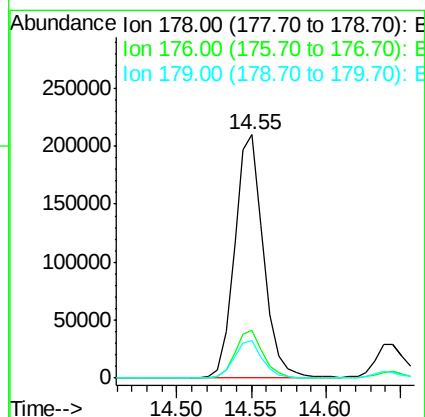
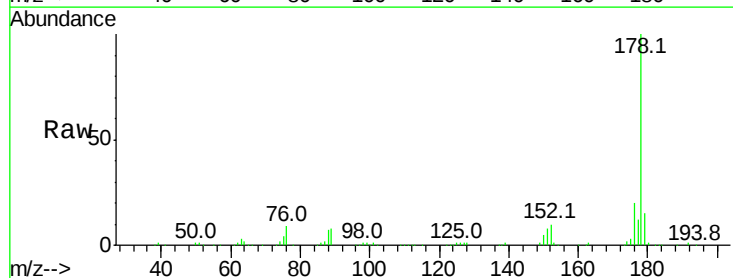
Instrument :
BNA_F
ClientSampleId :

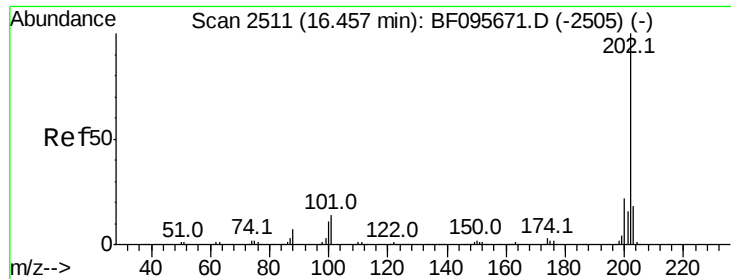
Tot Ion:178 Resp: 281296
Ion Ratio Lower Upper
178 100
176 19.6 16.2 24.4
179 15.4 12.6 19.0



#71
Anthracene
Concen: 29.52 ng
RT: 14.55 min Scan# 2221
Delta R.T. -0.12 min
Lab File: BF096188.D
Acq: 24 Jun 2017 13:59

Tgt Ion:178 Resp: 281296
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 15.4 12.7 19.1





#74

Fluoranthene

Concen: 18.95 ng

RT: 16.34 min Scan# 2526

Delta R.T. -0.02 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

Instrument :

BNA_F

ClientSampleId :

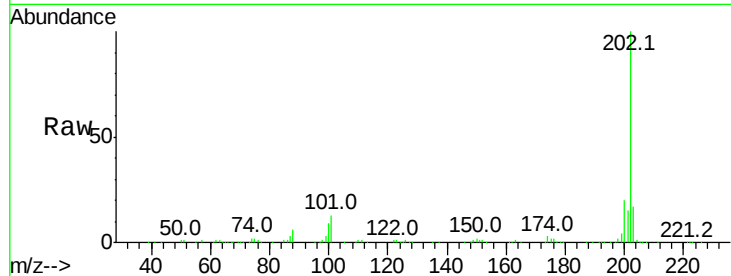
Tot Ion:202 Resp: 171228

Ion Ratio Lower Upper

202 100

101 13.0 0.0 33.2

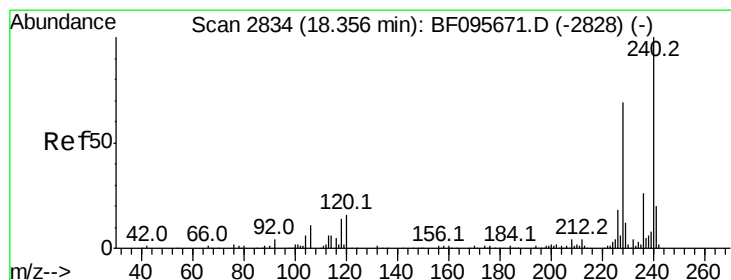
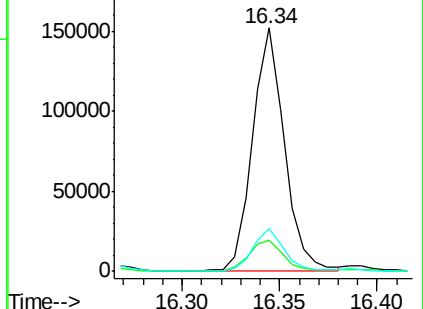
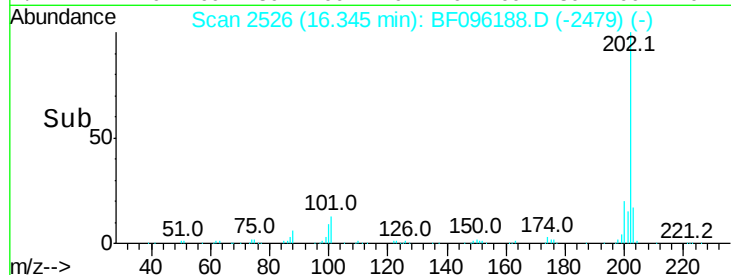
203 17.4 0.0 38.1



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: 18.25 min Scan# 2850

Delta R.T. -0.02 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

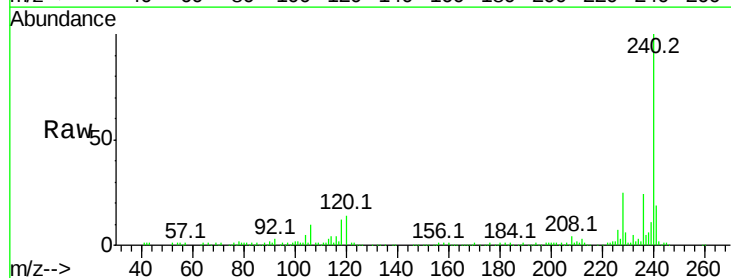
Tgt Ion:240 Resp: 139059

Ion Ratio Lower Upper

240 100

120 14.0 5.8 8.8#

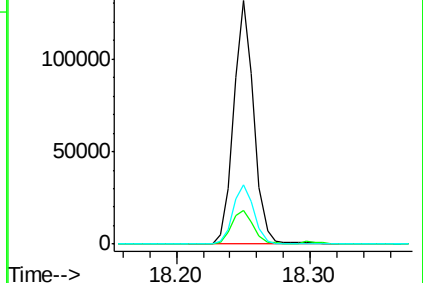
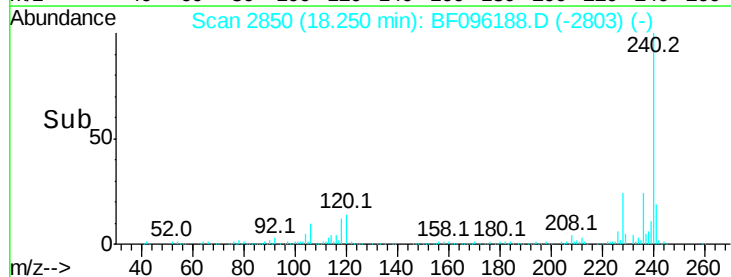
236 24.4 20.5 30.7

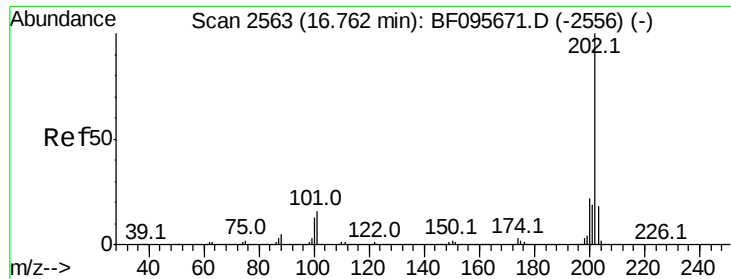


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

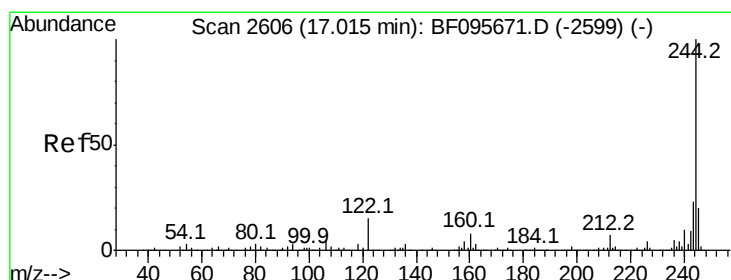
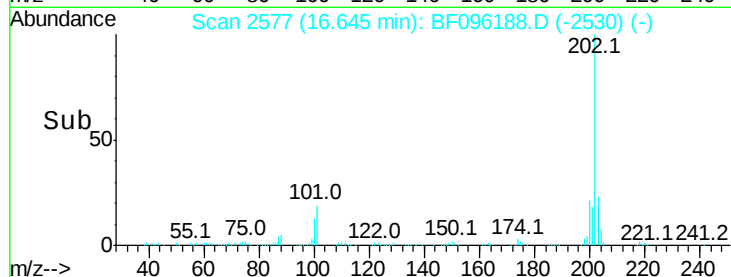
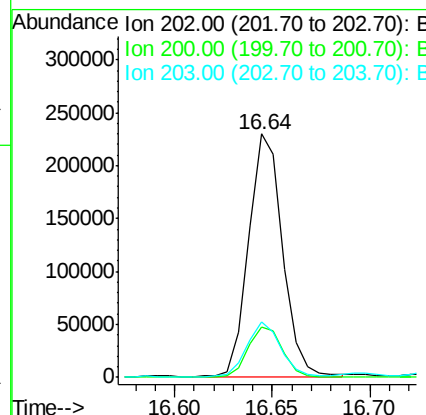
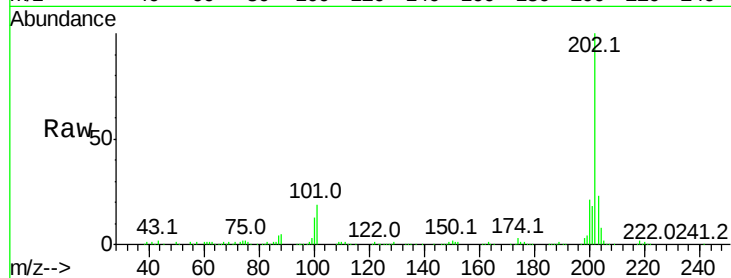




#77
Pvrene
Concen: 26.45 ng
RT: 16.64 min Scan# 2577
Delta R.T. -0.02 min
Lab File: BF096188.D
Acq: 24 Jun 2017 13:59

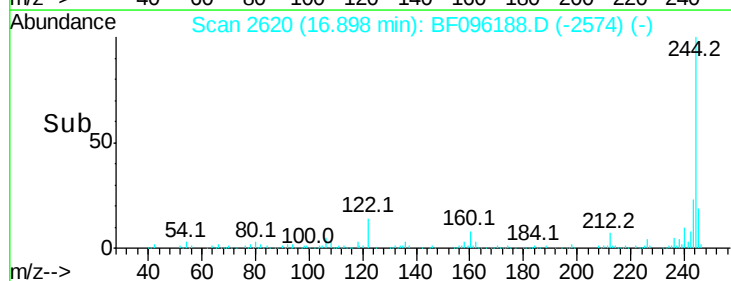
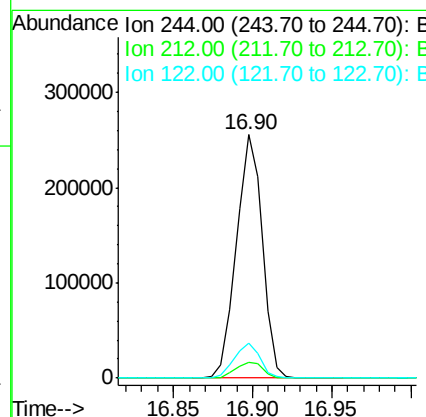
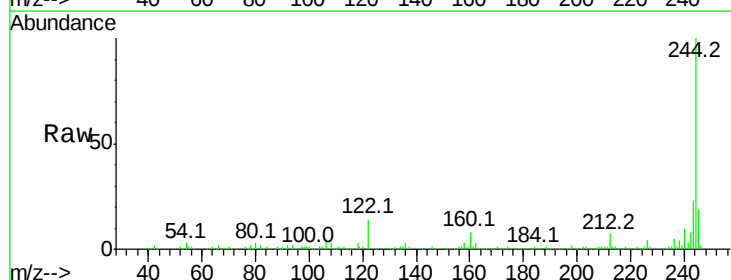
Instrument :
BNA_F
ClientSampleId :

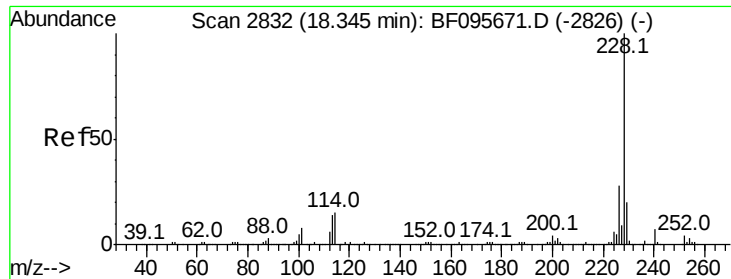
Tot Ion:202 Resp: 274410
Ion Ratio Lower Upper
202 100
200 20.6 17.6 26.4
203 22.8 14.4 21.6#



#78
Terphenyl-d14
Concen: 51.48 ng
RT: 16.90 min Scan# 2620
Delta R.T. -0.03 min
Lab File: BF096188.D
Acq: 24 Jun 2017 13:59

Tgt Ion:244 Resp: 288465
Ion Ratio Lower Upper
244 100
212 6.7 6.0 9.0
122 14.4 10.3 15.5





#80

Benzo(a)anthracene

Concen: 13.74 ng

RT: 18.24 min Scan# 2848

Delta R.T. -0.02 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

Instrument :

BNA_F

ClientSampleId :

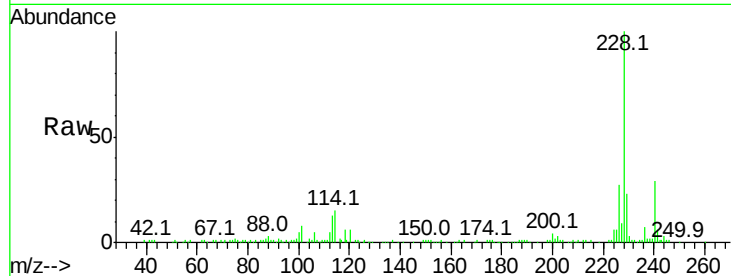
Tot Ion:228 Resp: 111127

Ion Ratio Lower Upper

228 100

226 27.2 22.6 33.8

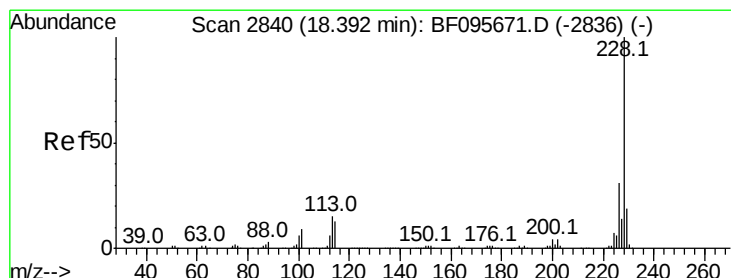
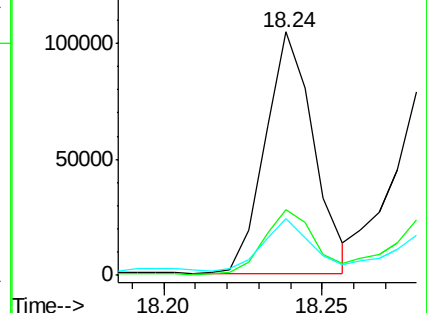
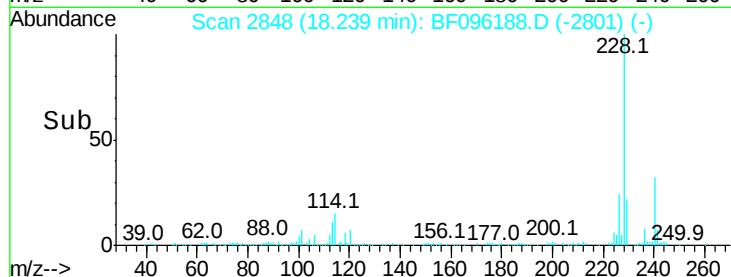
229 23.2 16.3 24.5



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: 15.31 ng

RT: 18.29 min Scan# 2856

Delta R.T. -0.02 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

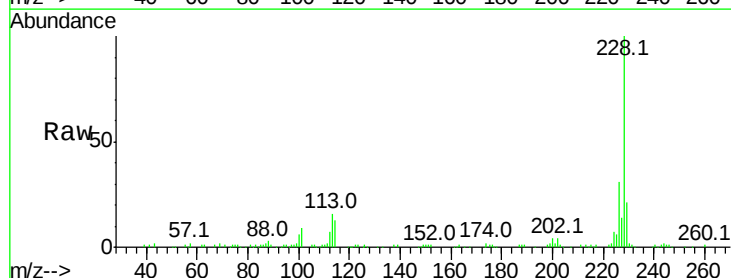
Tgt Ion:228 Resp: 123692

Ion Ratio Lower Upper

228 100

226 31.1 24.9 37.3

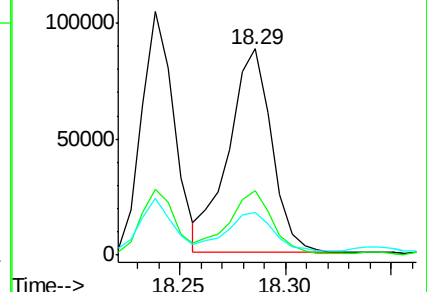
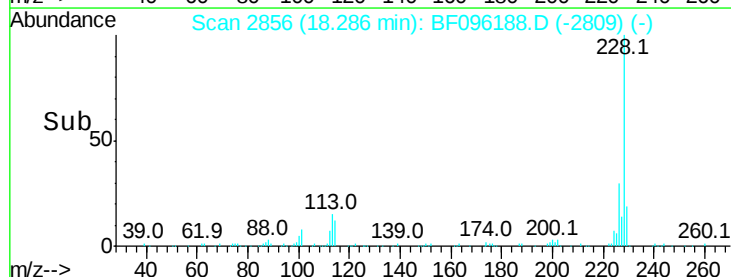
229 20.8 15.8 23.6

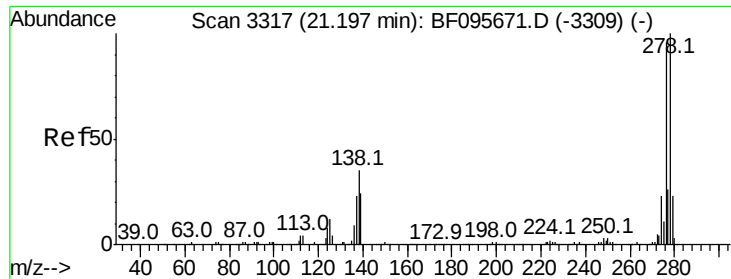


Abundance Ion 228.00 (227.70 to 228.70): E

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: 3.63 ng

RT: 21.10 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

Instrument :

BNA_F

ClientSampleId :

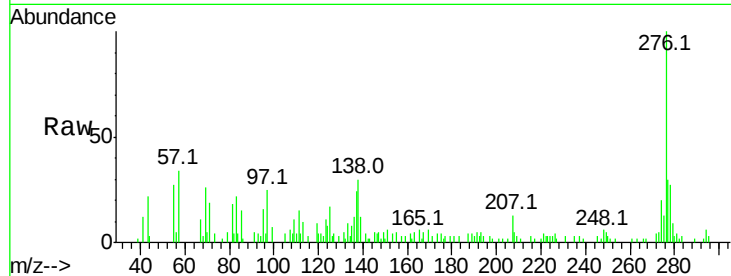
Tot Ion:276 Resp: 25078

Ion Ratio Lower Upper

276 100

138 27.7 27.8 41.6#

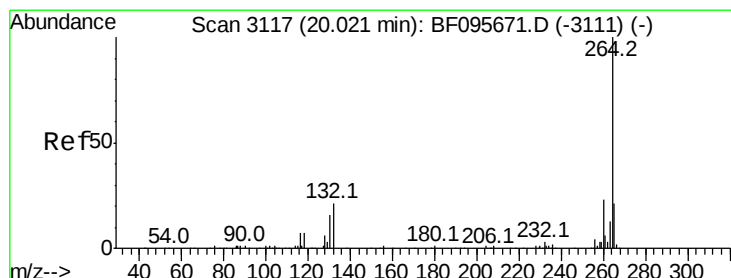
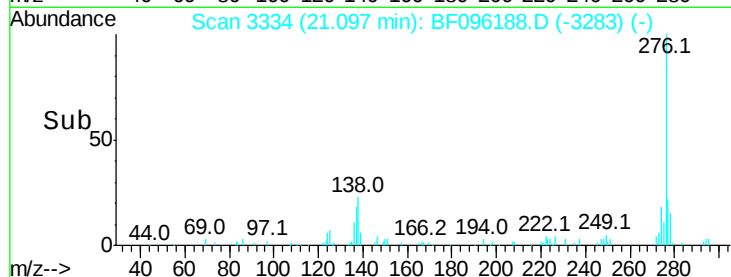
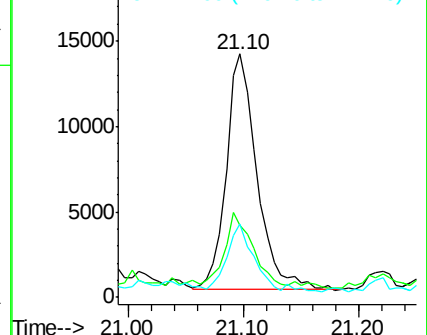
277 24.1 20.2 30.4



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: 19.93 min Scan# 3135

Delta R.T. -0.01 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

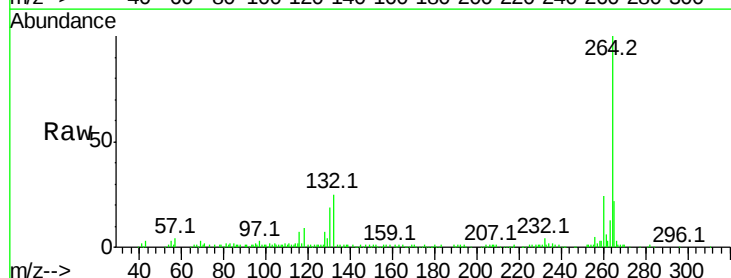
Tgt Ion:264 Resp: 114297

Ion Ratio Lower Upper

264 100

260 23.8 19.5 29.3

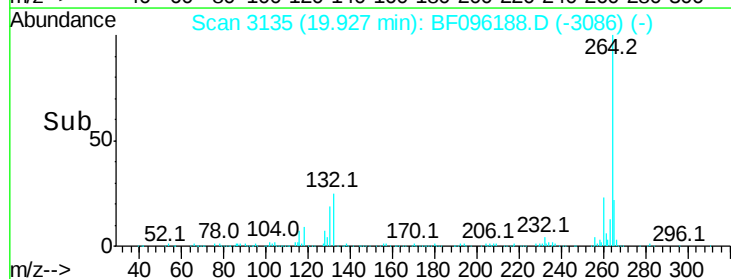
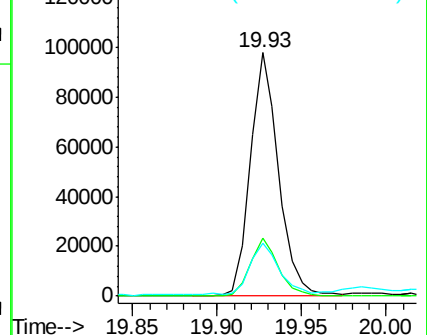
265 22.0 17.2 25.8

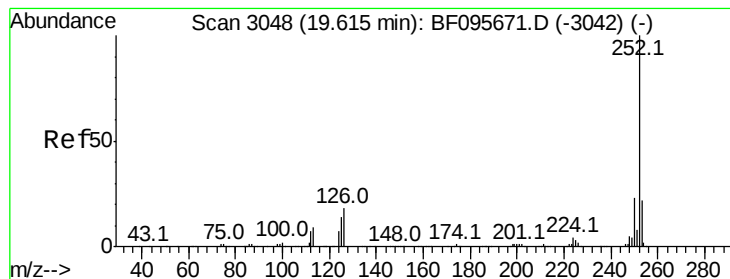


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 14.11 ng

RT: 19.53 min Scan# 3067

Delta R.T. -0.01 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

Instrument :

BNA_F

ClientSampleId :

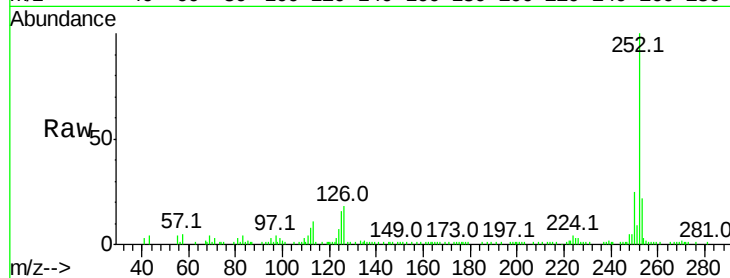
Tot Ion:252 Resp: 100950

Ion Ratio Lower Upper

252 100

253 22.0 18.1 27.1

125 15.7 9.8 14.8#

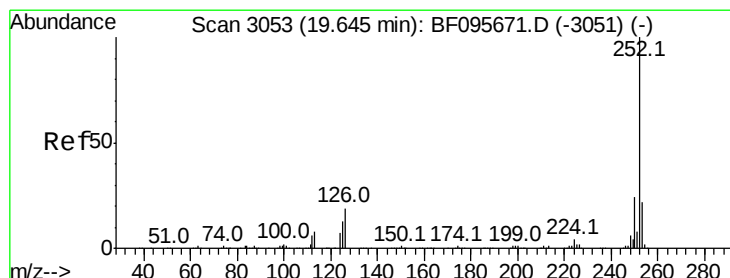
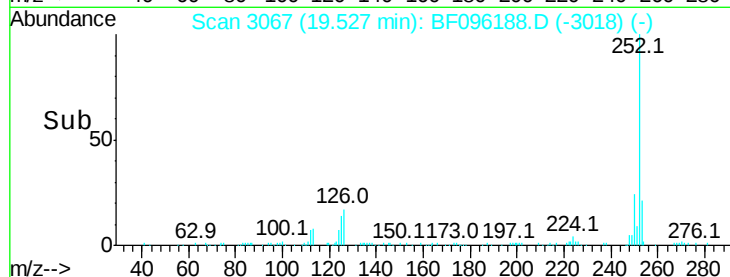


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

Time--> 19.45 19.50 19.55 19.60



#88

Benzo(k)fluoranthene

Concen: 14.76 ng

RT: 19.53 min Scan# 3067

Delta R.T. -0.04 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

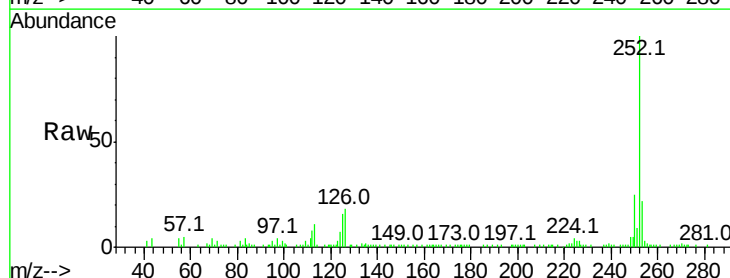
Tgt Ion:252 Resp: 100950

Ion Ratio Lower Upper

252 100

253 22.0 18.4 27.6

125 15.7 13.1 19.7

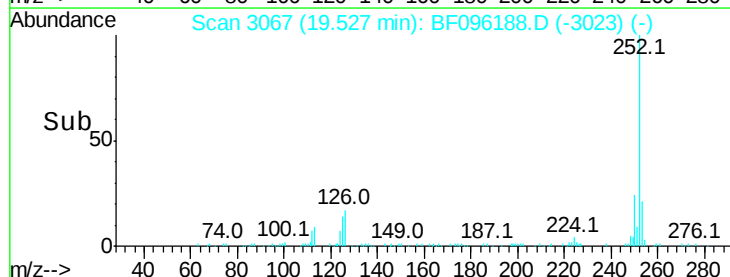


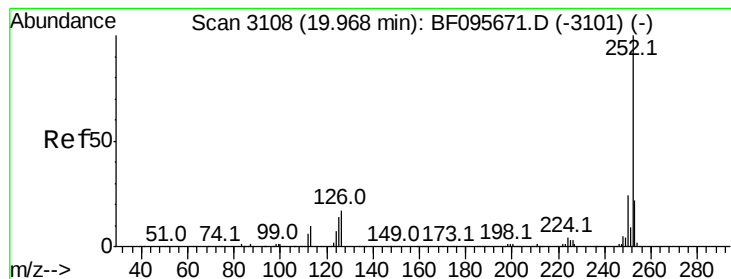
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

Time--> 19.45 19.50 19.55 19.60





#89

Benzo(a)pyrene

Concen: 10.74 ng

RT: 19.87 min Scan# 3126

Delta R.T. -0.01 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

Instrument :

BNA_F

ClientSampleId :

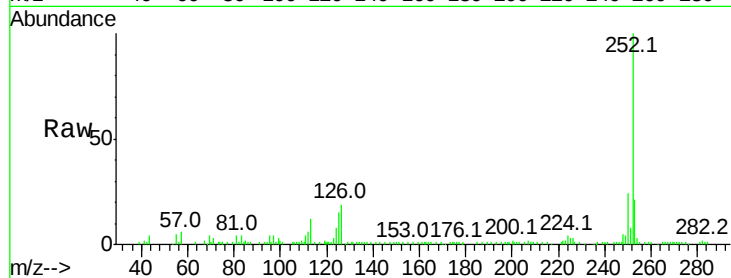
Tot Ion:252 Resp: 70639

Ion Ratio Lower Upper

252 100

253 21.2 17.5 26.3

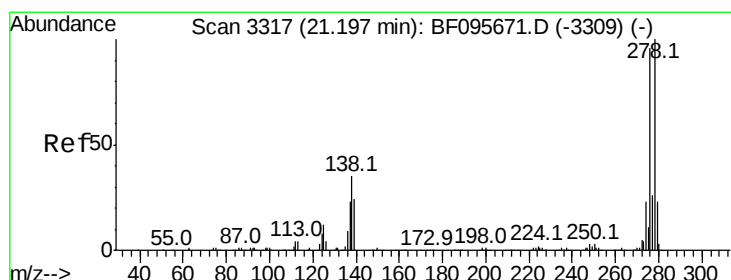
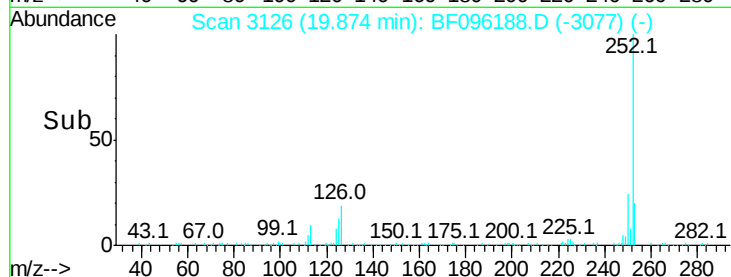
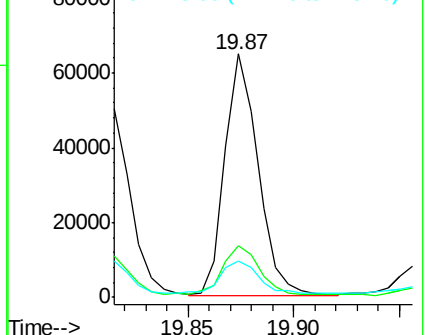
125 15.1 11.0 16.4



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: 2.28 ng

RT: 21.08 min Scan# 3331

Delta R.T. -0.02 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

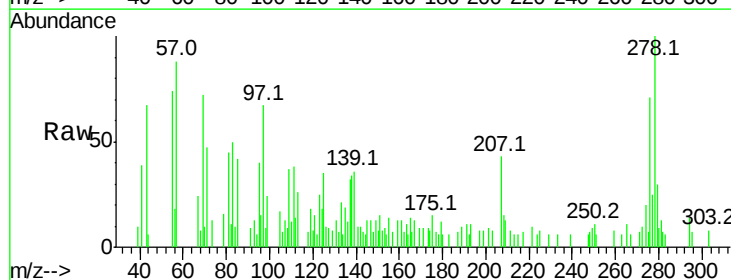
Tgt Ion:278 Resp: 12719

Ion Ratio Lower Upper

278 100

139 35.7 16.6 24.8#

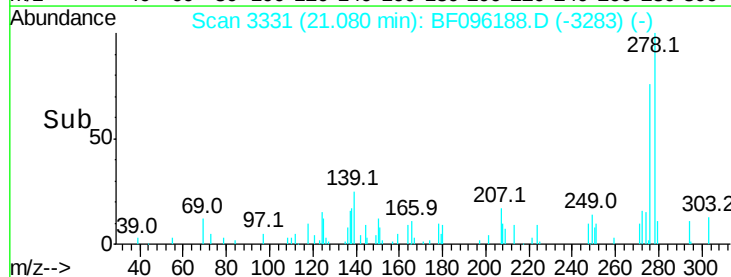
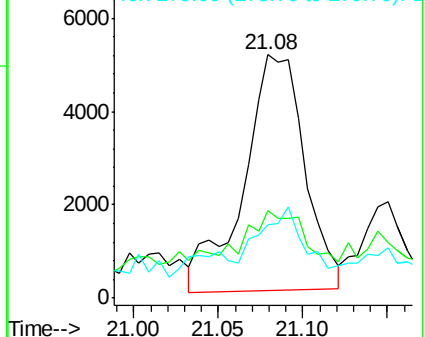
279 30.2 19.3 28.9#

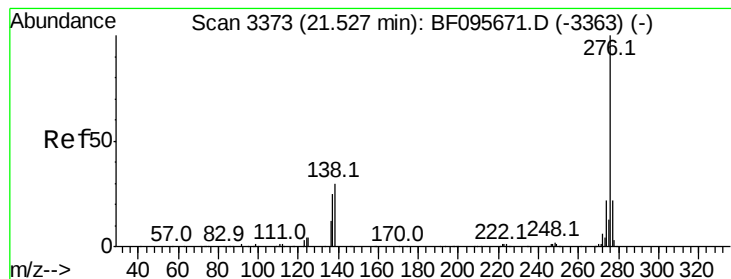


Abundance Ion 278.00 (277.70 to 278.70): E

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: 5.59 ng

RT: 21.42 min Scan# 3389

Delta R.T. 0.00 min

Lab File: BF096188.D

Acq: 24 Jun 2017 13:59

Instrument :

BNA_F

ClientSampleId :

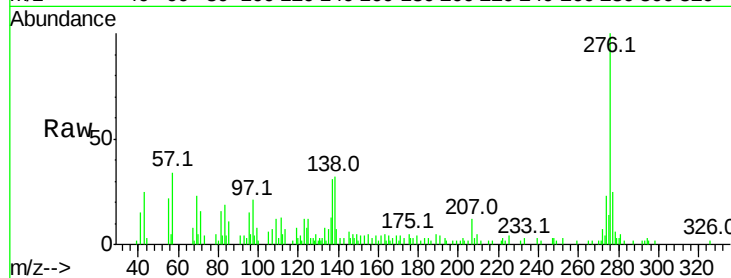
Tot Ion: 276 Resp: 31786

Ion Ratio Lower Upper

276 100

277 24.8 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

