

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050817\
 Data File : BF095021.D
 Acq On : 9 May 2017 13:43
 Operator : SJ/MA
 Sample : I3013-05 10X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 09 16:03:22 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

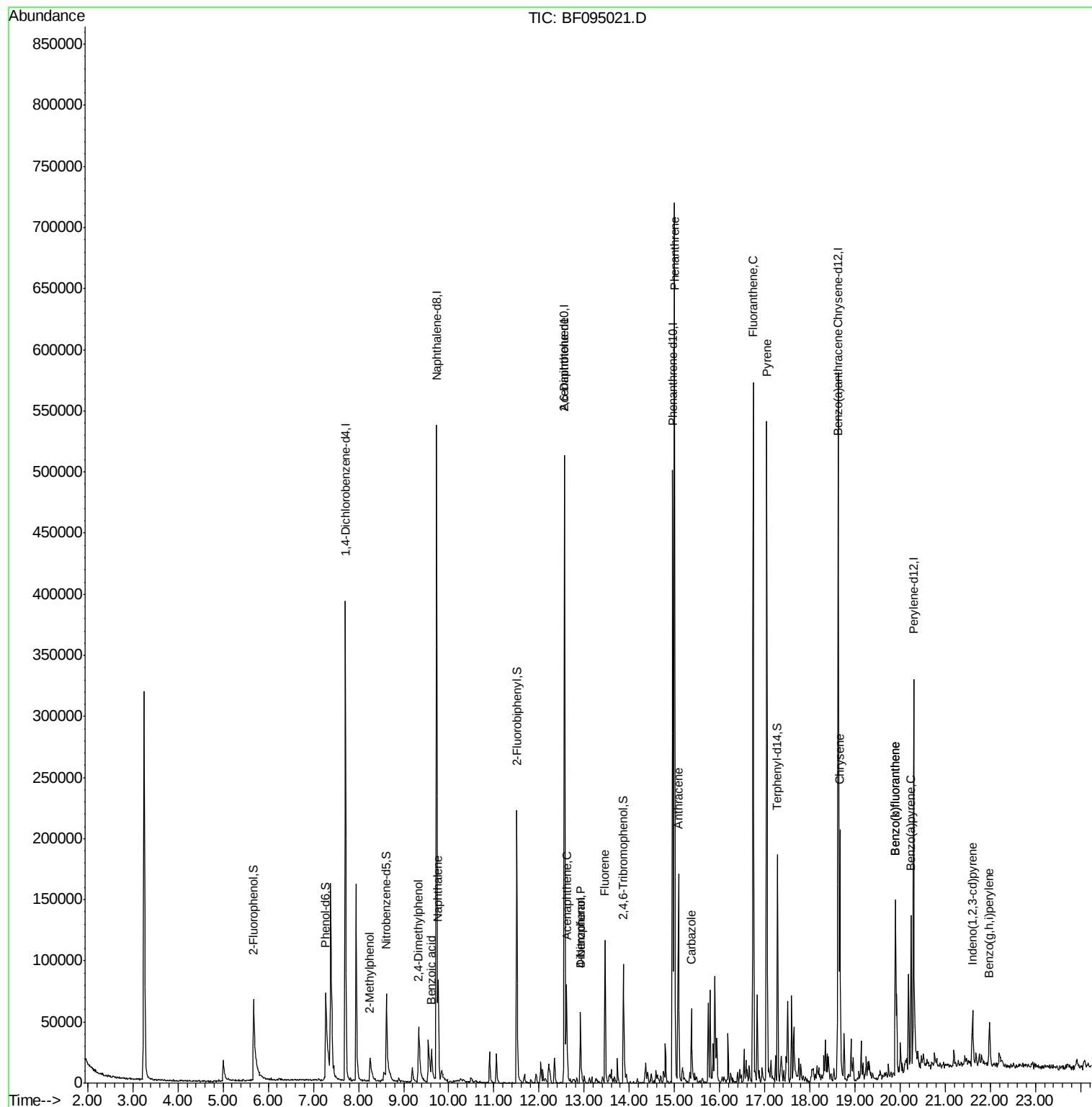
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.71	152	88687	20.00	ng	-0.02
21) Naphthalene-d8	9.73	136	352096	20.00	ng	-0.02
38) Acenaphthene-d10	12.56	164	158071	20.00	ng	-0.02
63) Phenanthrene-d10	14.96	188	249214	20.00	ng	-0.02
75) Chrysene-d12	18.63	240	199224	20.00	ng	-0.02
86) Perylene-d12	20.30	264	134975	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.68	112	64468	12.12	ng	0.00
7) Phenol-d6	7.27	99	97967	15.35	ng	-0.01
23) Nitrobenzene-d5	8.62	82	55002	9.85	ng	-0.02
41) 2,4,6-Tribromophenol	13.87	330	18169	14.03	ng	-0.01
44) 2-Fluorobiphenyl	11.51	172	108714	9.90	ng	-0.02
78) Terphenyl-d14	17.28	244	63885	7.06	ng	-0.03
Target Compounds						Qvalue
17) 2-Methylphenol	8.26	107	13499	2.72	ng	91
27) 2,4-Dimethylphenol	9.34	122	25919	5.08	ng	93
31) Naphthalene	9.77	128	61034	3.45	ng	98
32) Benzoic acid	9.62	122	10587	7.91	ng	# 15
50) 2,6-Dinitrotoluene	12.56	165	15186	5.74	ng	# 31
51) Acenaphthene	12.62	154	27755	2.76	ng	98
54) Dibenzofuran	12.91	168	40897	2.94	ng	98
55) 4-Nitrophenol	12.91	139	14947	8.76	ng	# 25
57) Fluorene	13.47	166	51286	4.24	ng	94
70) Phenanthrene	15.00	178	391461	27.34	ng	97
71) Anthracene	15.09	178	104570	7.15	ng	97
72) Carbazole	15.38	167	44669	3.36	ng	# 95
74) Fluoranthene	16.74	202	307813	20.96	ng	99
77) Pyrene	17.05	202	247196	16.59	ng	96
80) Benzo(a)anthracene	18.62	228	99627	8.59	ng	98
82) Chrysene	18.67	228	87718	7.82	ng	99
85) Indeno(1,2,3-cd)pyrene	21.60	276	31736	3.49	ng	95
87) Benzo(b)fluoranthene	19.89	252	101489	12.17	ng	97
88) Benzo(k)fluoranthene	19.89	252	101489	12.62	ng	96
89) Benzo(a)pyrene	20.24	252	58337	7.58	ng	98
91) Benzo(g,h,i)perylene	21.98	276	28362	4.55	ng	96

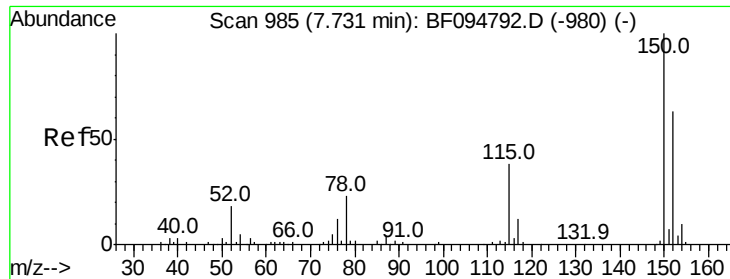
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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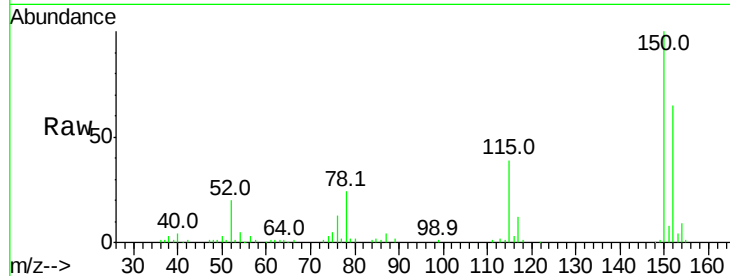


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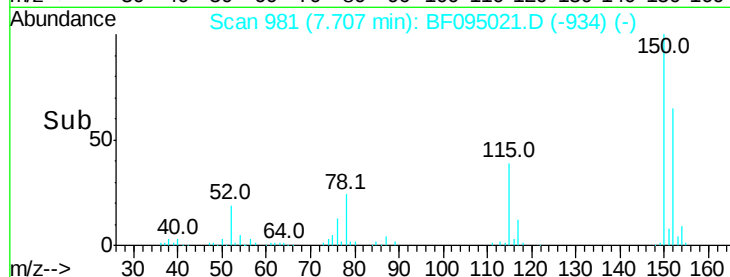
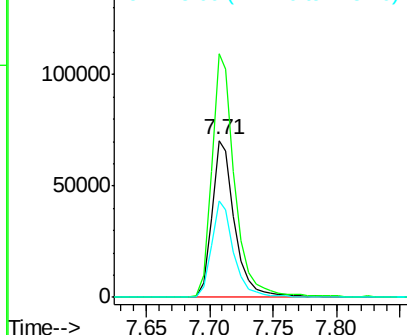
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.71 min Scan# 981
Delta R.T. -0.02 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 88687
Ion Ratio Lower Upper
152 100
150 155.0 126.2 189.2
115 61.1 52.2 78.2



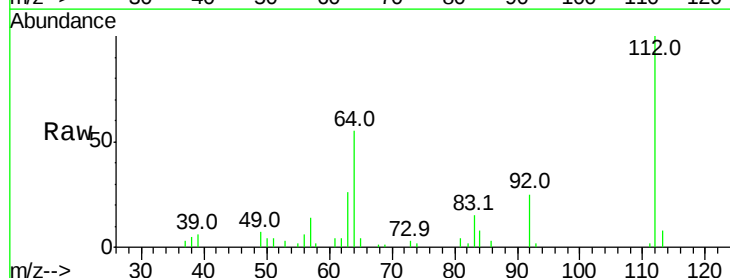
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



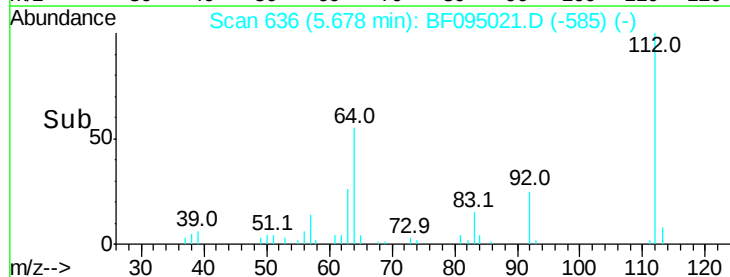
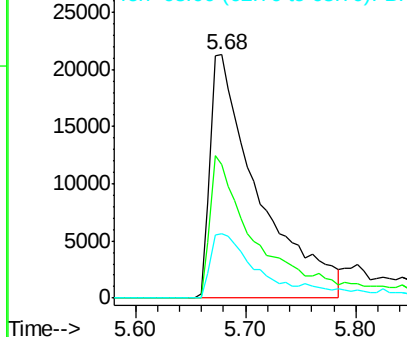
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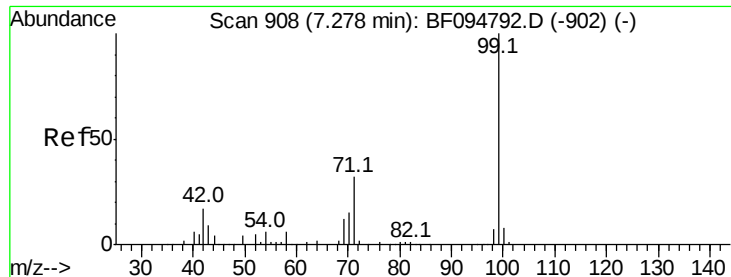
2-Fluorophenol
Concen: 12.12 ng
RT: 5.68 min Scan# 636
Delta R.T. 0.00 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

Tgt Ion:112 Resp: 64468
Ion Ratio Lower Upper
112 100
64 54.6 46.0 69.0
63 26.3 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: 15.35 ng

RT: 7.27 min Scan# 906

Delta R.T. -0.01 min

Lab File: BF095021.D

Acq: 9 May 2017 13:43

Instrument :

BNA_F

ClientSampleId :

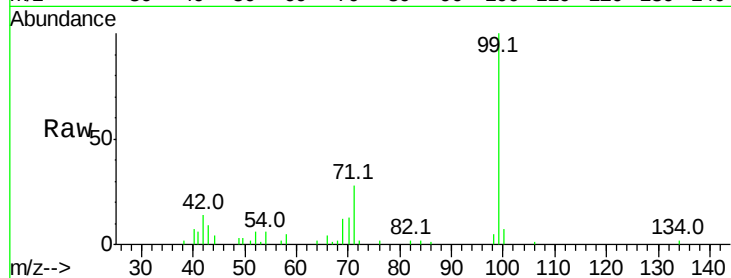
Tot Ion: 99 Resp: 97967

Ion Ratio Lower Upper

99 100

42 14.5 13.5 20.3

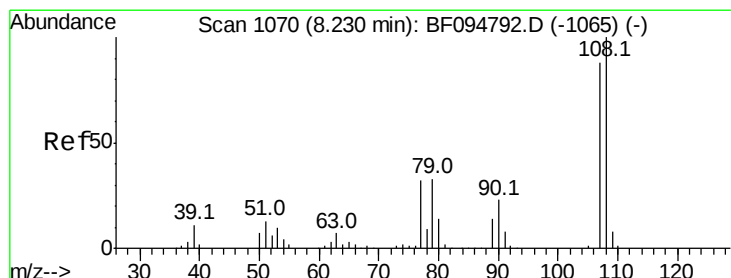
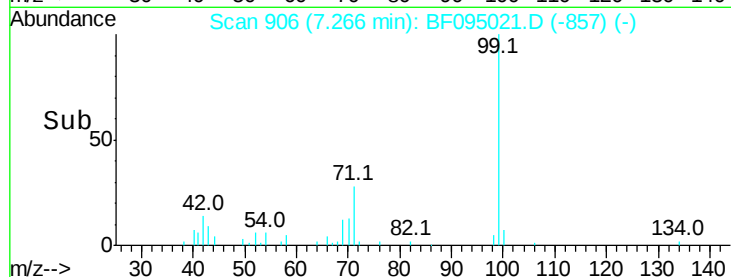
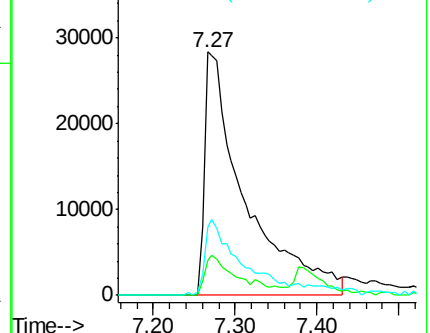
71 28.1 24.5 36.7



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



#17

2-Methylphenol

Concen: 2.72 ng

RT: 8.26 min Scan# 1075

Delta R.T. 0.03 min

Lab File: BF095021.D

Acq: 9 May 2017 13:43

Tgt Ion:107 Resp: 13499

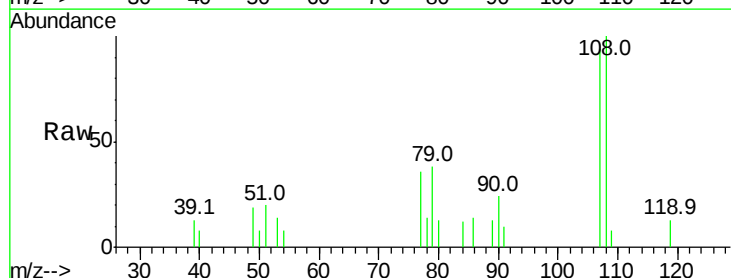
Ion Ratio Lower Upper

107 100

108 106.6 93.4 140.0

77 38.0 35.8 53.6

79 40.1 34.8 52.2

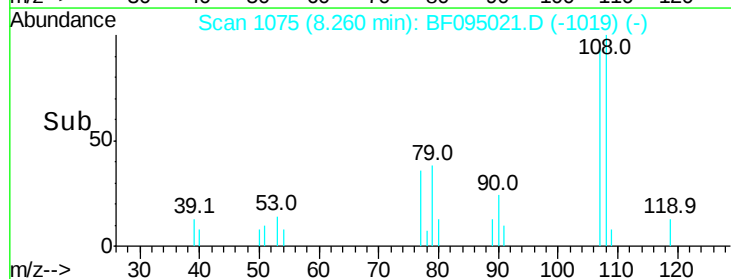
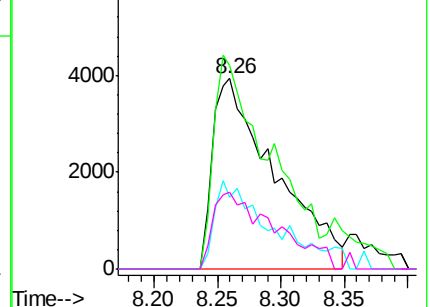


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.73 min Scan# 1325

Delta R.T. -0.02 min

Lab File: BF095021.D

Acq: 9 May 2017 13:43

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 352096

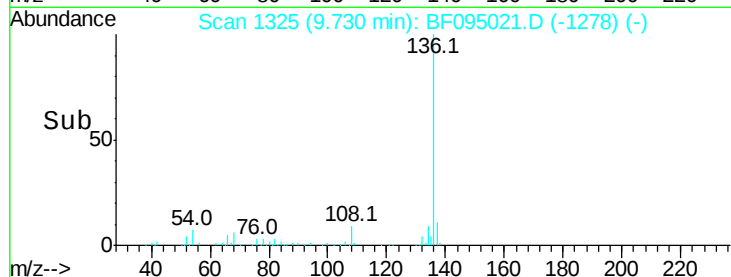
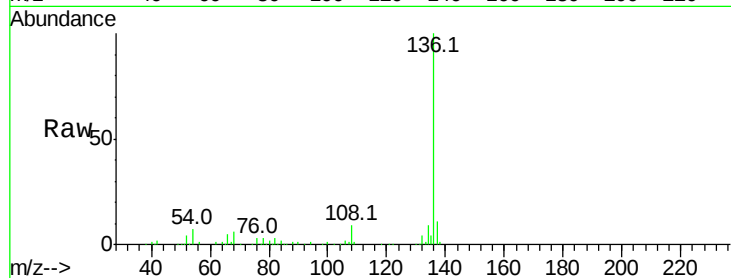
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 7.1 4.9 7.3

68 5.7 4.1 6.1

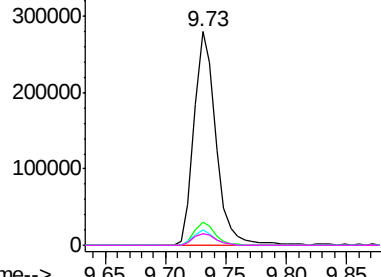


Abundance Ion 136.00 (135.70 to 136.70): E

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: 9.85 ng

RT: 8.62 min Scan# 1136

Delta R.T. -0.02 min

Lab File: BF095021.D

Acq: 9 May 2017 13:43

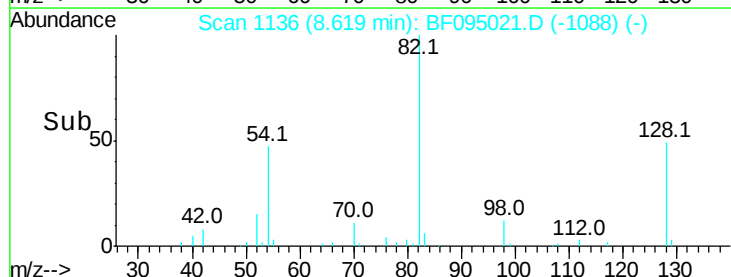
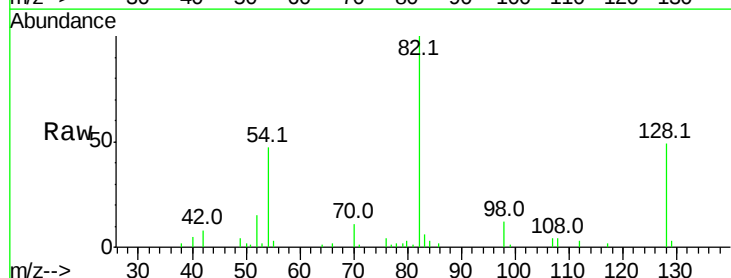
Tgt Ion: 82 Resp: 55002

Ion Ratio Lower Upper

82 100

128 49.2 34.0 51.0

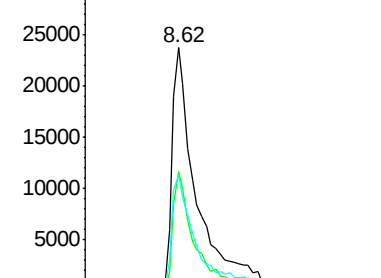
54 47.2 42.2 63.2

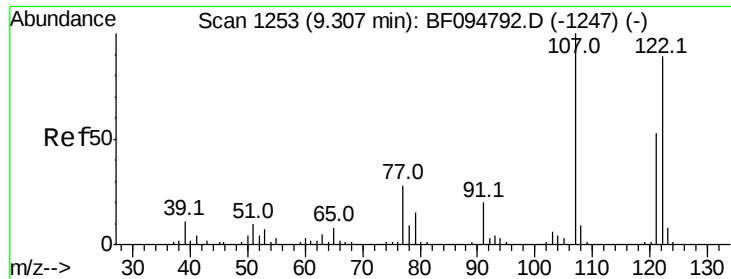


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



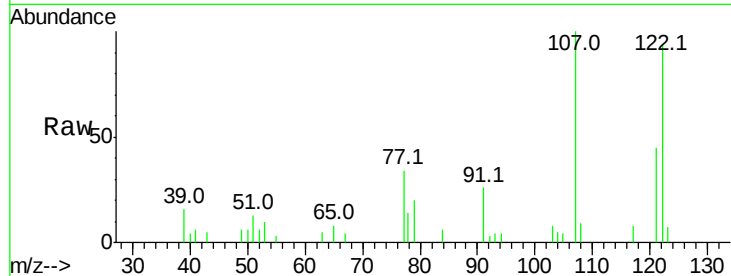


#27
 2,4-Dimethylphenol
 Concen: 5.08 ng
 RT: 9.34 min Scan# 1258
 Delta R.T. 0.03 min
 Lab File: BF095021.D
 Acq: 9 May 2017 13:43

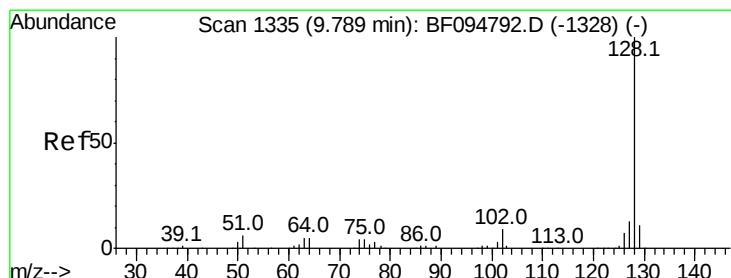
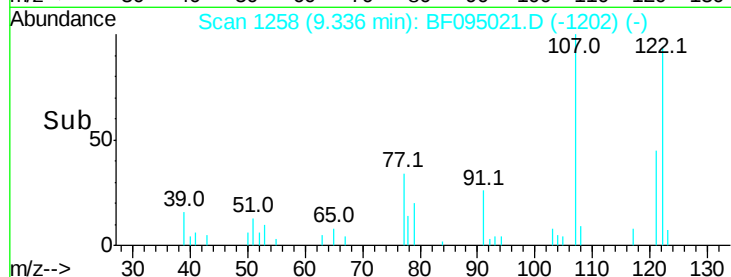
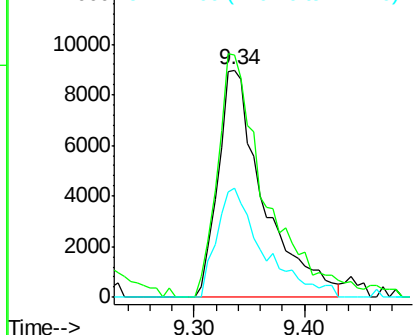
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:122 Resp: 25919

Ion	Ratio	Lower	Upper
122	100		
107	106.8	89.2	133.8
121	48.1	45.2	67.8



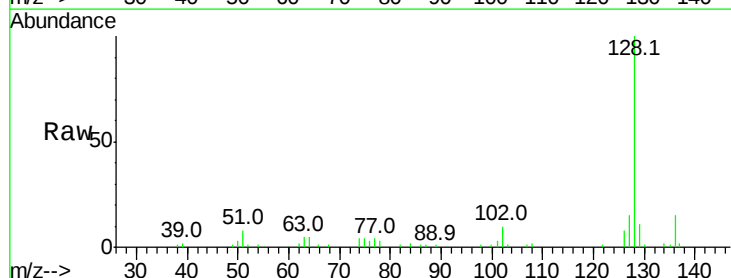
Abundance Ion 122.00 (121.70 to 122.70): E
 Ion 107.00 (106.70 to 107.70): E
 Ion 121.00 (120.70 to 121.70): E



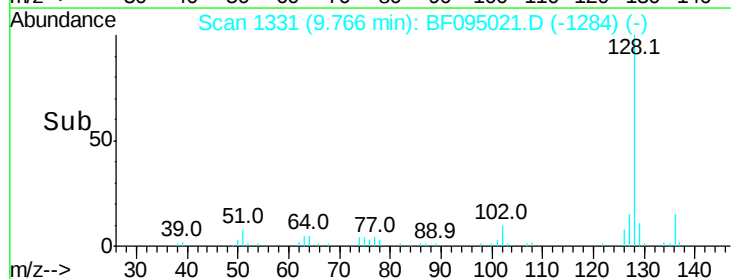
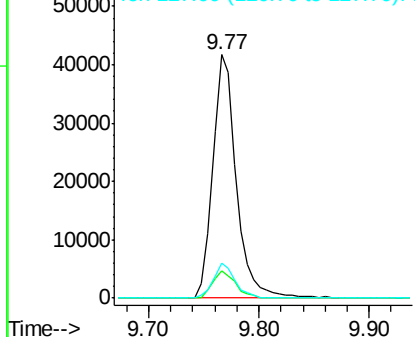
#31
 Naphthalene
 Concen: 3.45 ng
 RT: 9.77 min Scan# 1331
 Delta R.T. -0.02 min
 Lab File: BF095021.D
 Acq: 9 May 2017 13:43

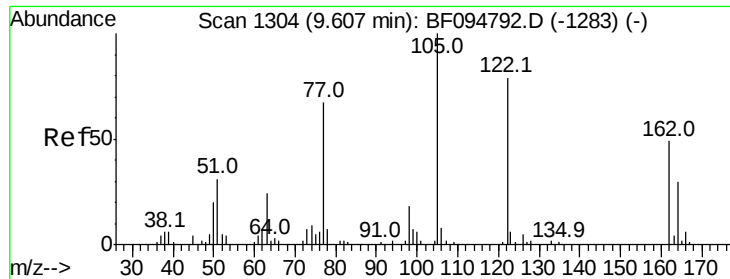
Tgt Ion:128 Resp: 61034

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.6
127	14.6	10.8	16.2



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E

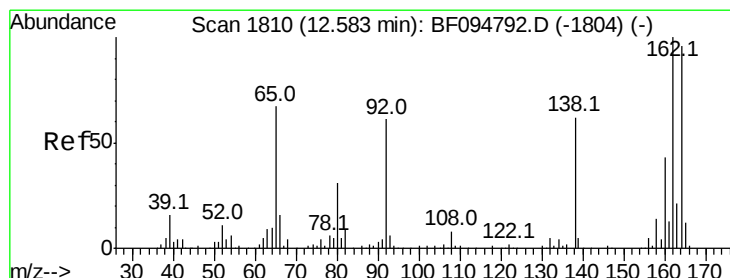
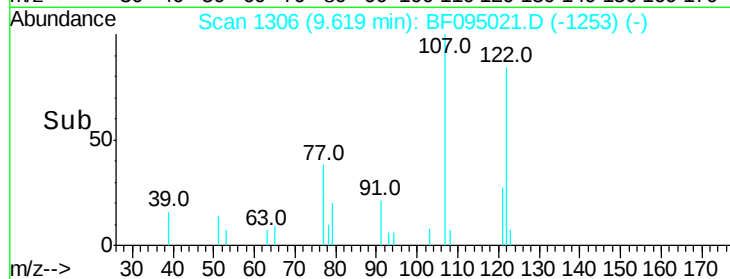
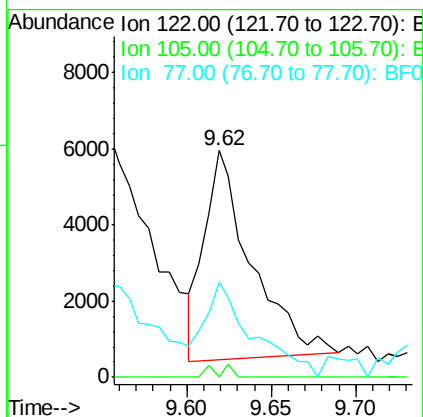
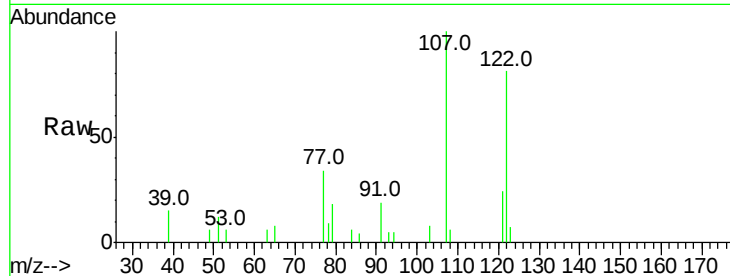




#32
Benzoic acid
Concen: 7.91 ng
RT: 9.62 min Scan# 1306
Delta R.T. 0.01 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

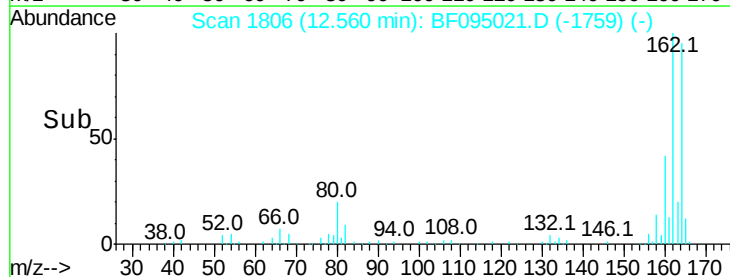
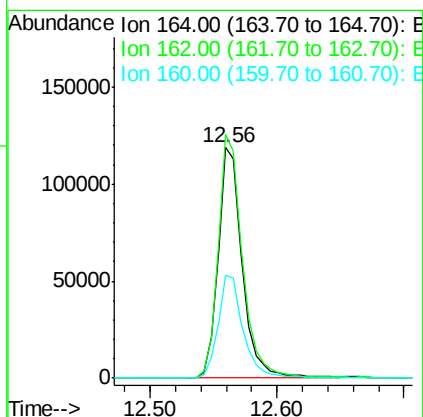
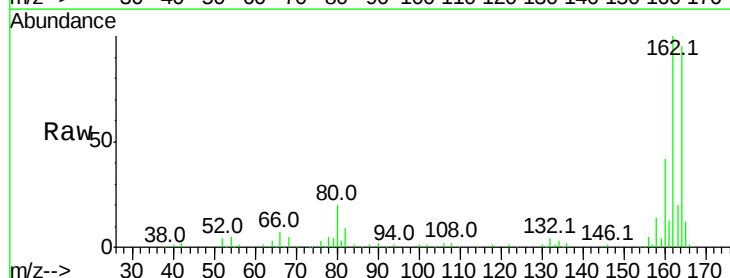
Instrument :
BNA_F
ClientSampleId :

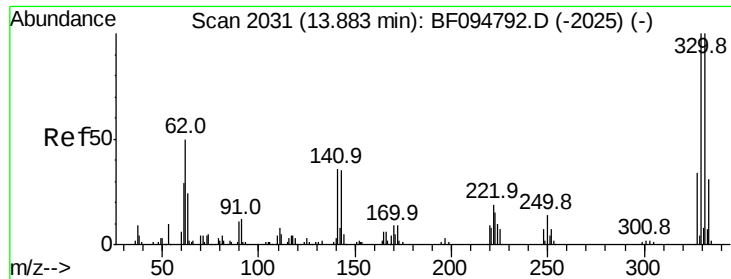
Tot Ion	Ratio	Lower	Upper
122	100		
105	0.0	103.3	143.3#
77	42.0	73.7	113.7#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.56 min Scan# 1806
Delta R.T. -0.02 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.7	82.6	123.8
160	44.8	36.2	54.2

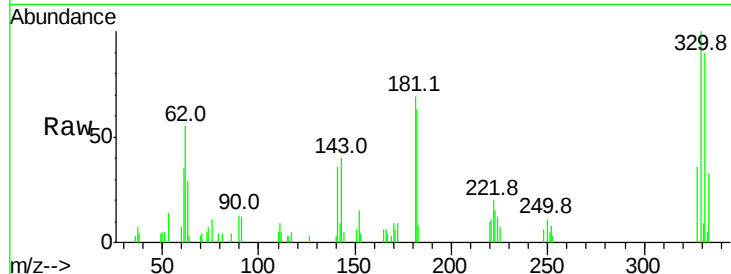




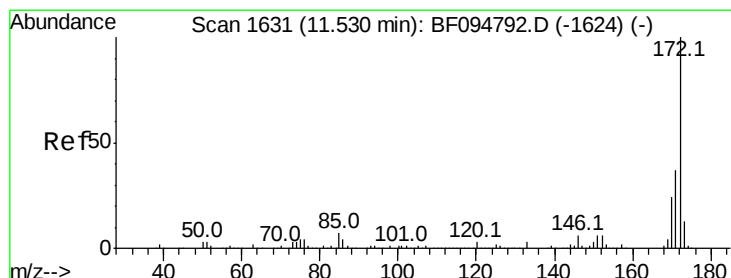
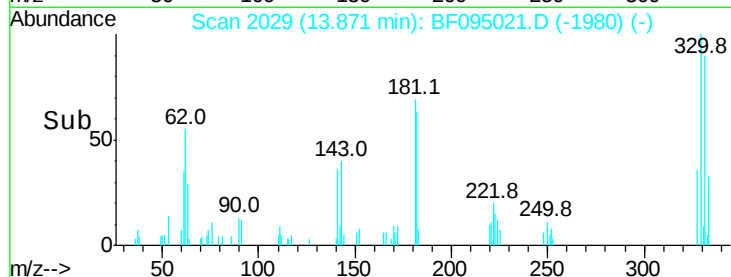
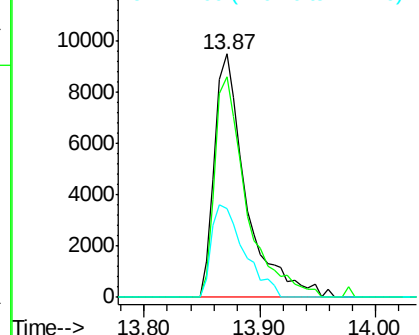
#41
 2,4,6-Tribromophenol
 Concen: 14.03 ng
 RT: 13.87 min Scan# 2029
 Delta R.T. -0.01 min
 Lab File: BF095021.D
 Acq: 9 May 2017 13:43

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 18169
 Ion Ratio Lower Upper
 330 100
 332 90.5 76.6 115.0
 141 39.3 31.4 47.2

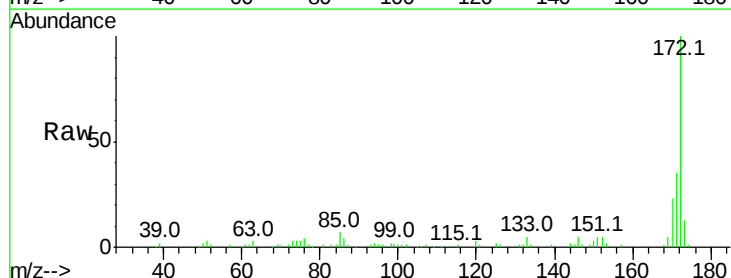


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

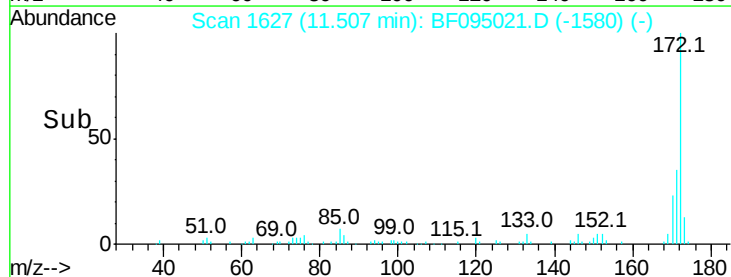
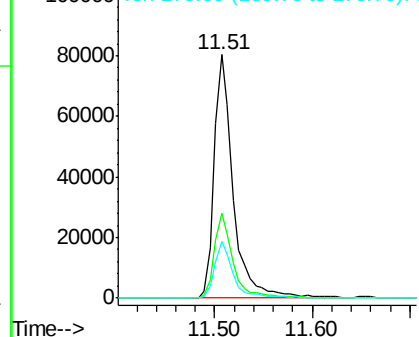


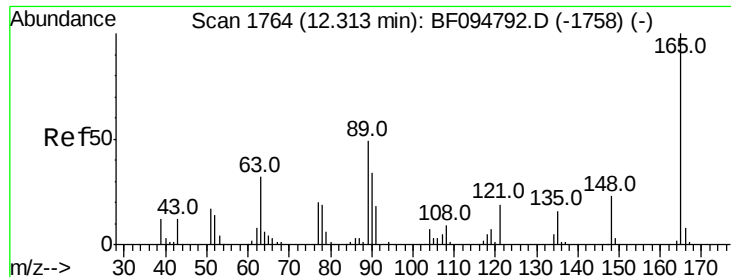
#44
 2-Fluorobiphenyl
 Concen: 9.90 ng
 RT: 11.51 min Scan# 1627
 Delta R.T. -0.02 min
 Lab File: BF095021.D
 Acq: 9 May 2017 13:43

Tgt Ion:172 Resp: 108714
 Ion Ratio Lower Upper
 172 100
 171 34.8 29.6 44.4
 170 23.3 19.8 29.8



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

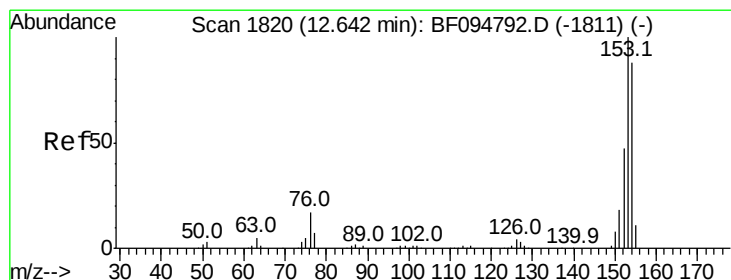
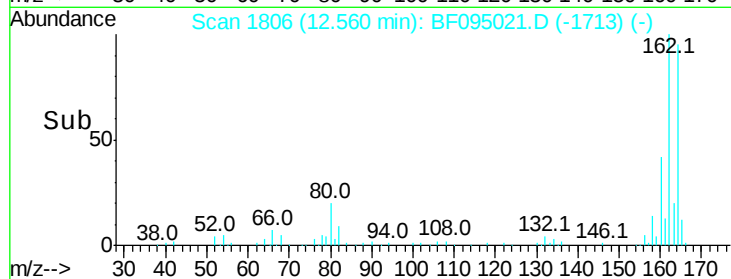
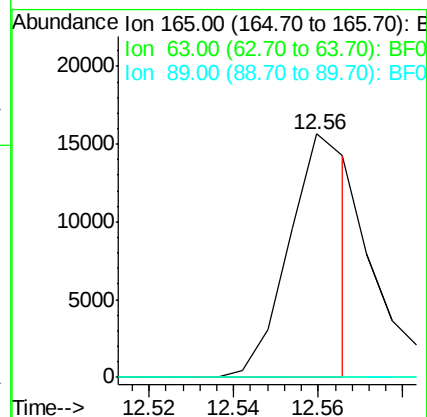
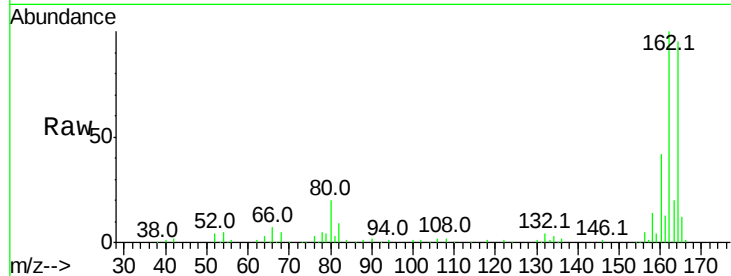




#50
 2,6-Dinitrotoluene
 Concen: 5.74 ng
 RT: 12.56 min Scan# 1806
 Delta R.T. 0.25 min
 Lab File: BF095021.D
 Acq: 9 May 2017 13:43

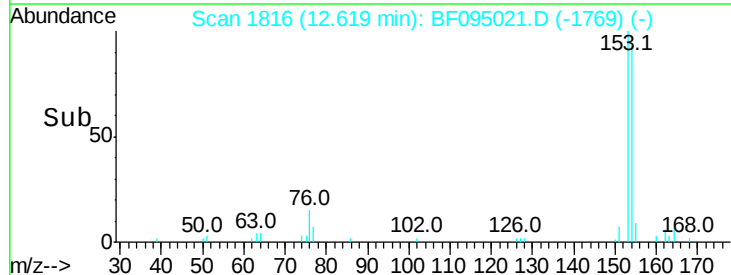
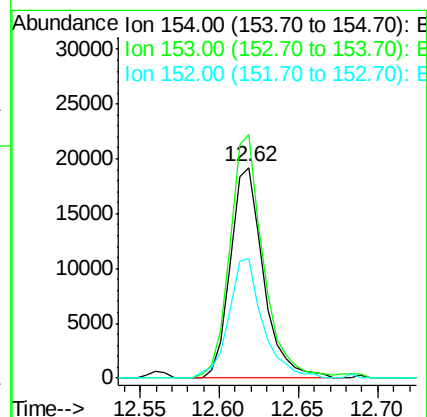
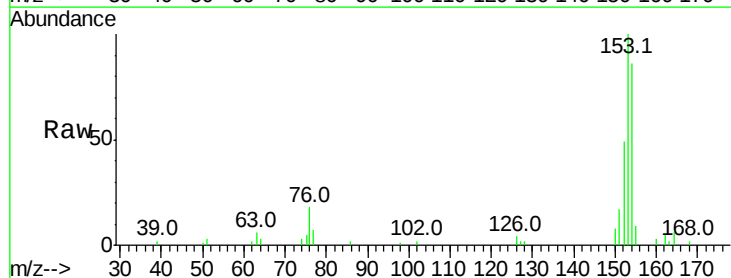
Instrument :
 BNA_F
 ClientSampleId :

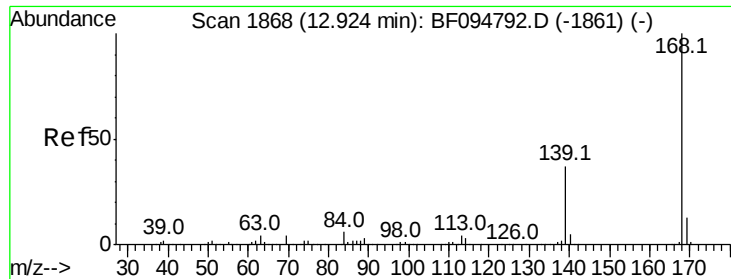
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.3	51.5#
89	0.0	37.1	55.7#



#51
 Acenaphthene
 Concen: 2.76 ng
 RT: 12.62 min Scan# 1816
 Delta R.T. -0.02 min
 Lab File: BF095021.D
 Acq: 9 May 2017 13:43

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.7	90.5	135.7
152	56.5	43.6	65.4

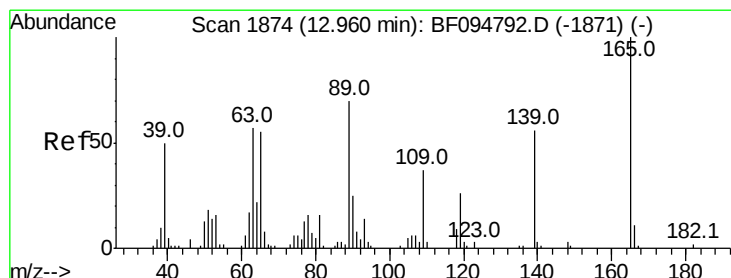
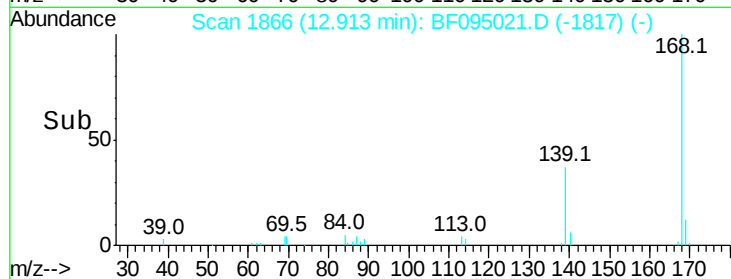
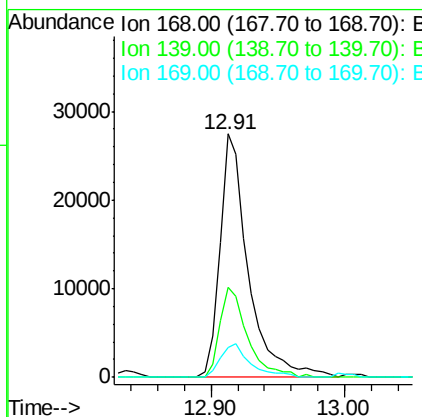
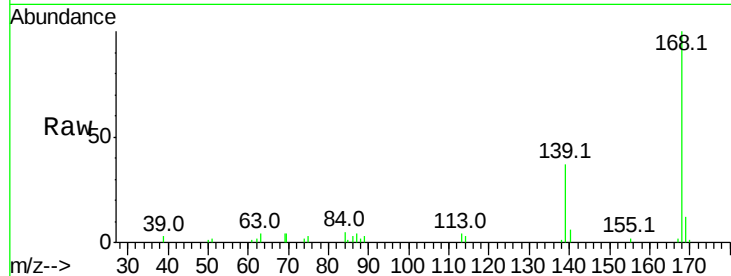




#54
Dibenzenofuran
Concen: 2.94 ng
RT: 12.91 min Scan# 1866
Delta R.T. -0.01 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

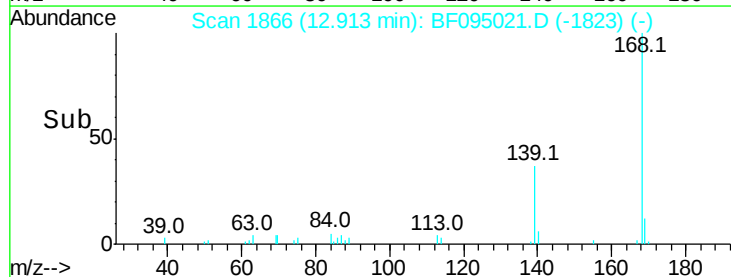
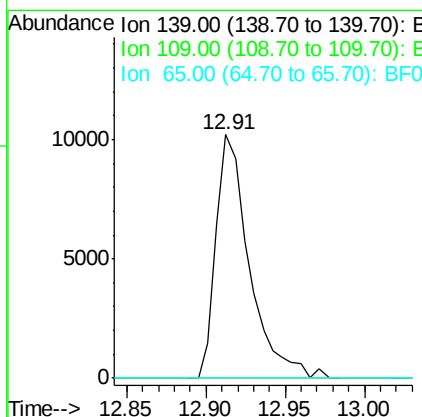
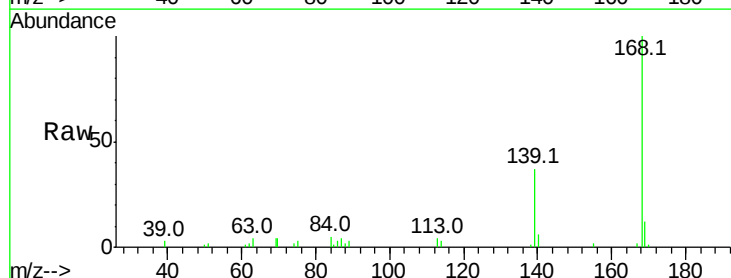
Instrument :
BNA_F
ClientSampleId :

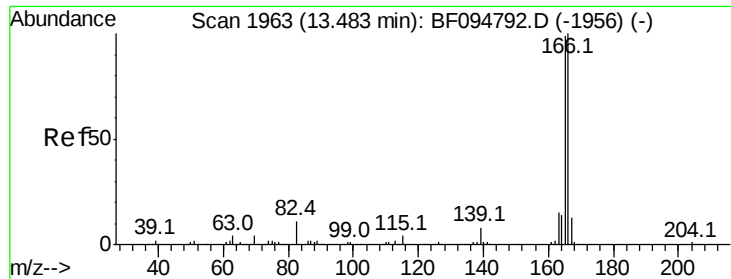
Tot Ion:168 Resp: 40897
Ion Ratio Lower Upper
168 100
139 37.2 30.6 45.8
169 12.2 10.8 16.2



#55
4-Nitrophenol
Concen: 8.76 ng
RT: 12.91 min Scan# 1866
Delta R.T. -0.05 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

Tgt Ion:139 Resp: 14947
Ion Ratio Lower Upper
139 100
109 0.0 34.1 74.1#
65 0.0 31.4 71.4#

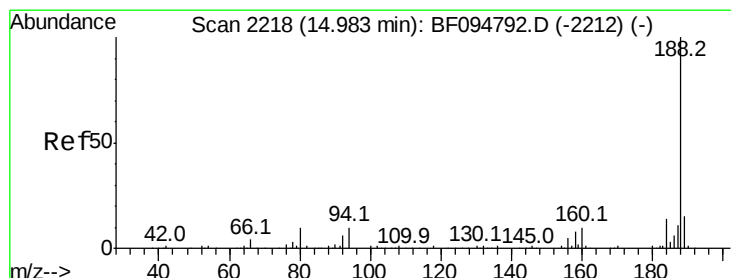
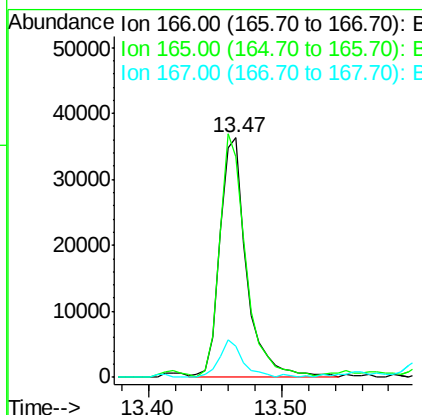
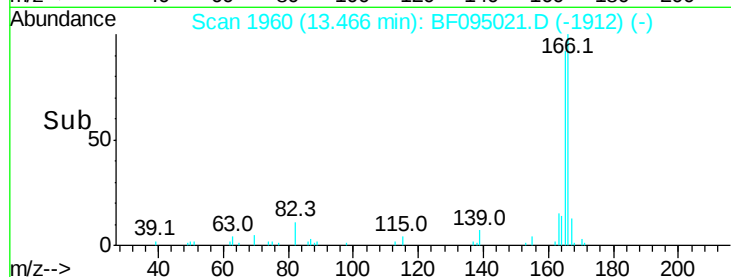
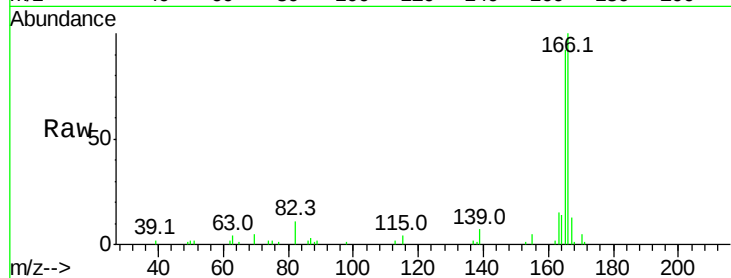




#57
 Fluorene
 Concen: 4.24 ng
 RT: 13.47 min Scan# 1960
 Delta R.T. -0.02 min
 Lab File: BF095021.D
 Acq: 9 May 2017 13:43

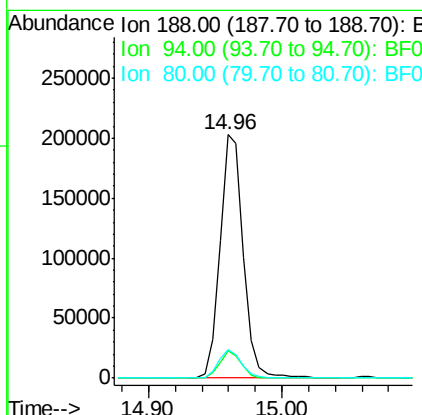
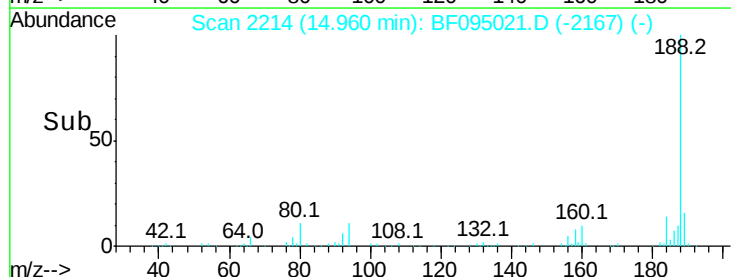
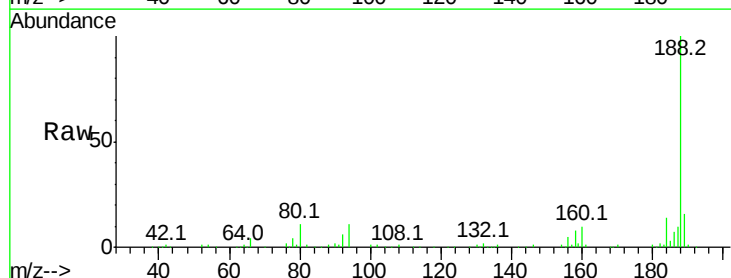
Instrument :
 BNA_F
 ClientSampleId :

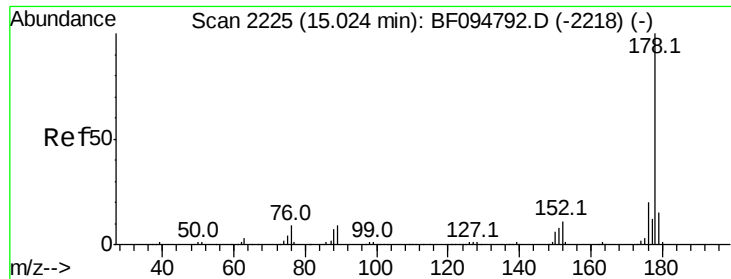
Tot Ion:166 Resp: 51286
 Ion Ratio Lower Upper
 166 100
 165 92.0 78.8 118.2
 167 12.8 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.96 min Scan# 2214
 Delta R.T. -0.02 min
 Lab File: BF095021.D
 Acq: 9 May 2017 13:43

Tgt Ion:188 Resp: 249214
 Ion Ratio Lower Upper
 188 100
 94 11.2 9.4 14.2
 80 11.5 10.2 15.2

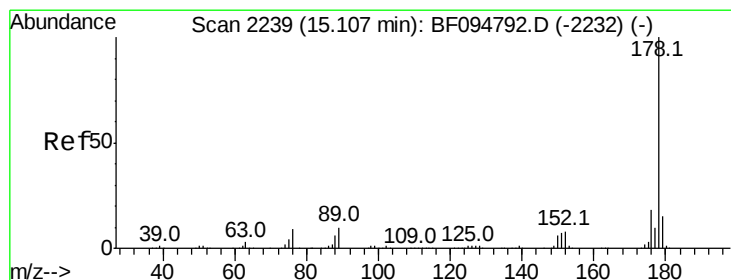
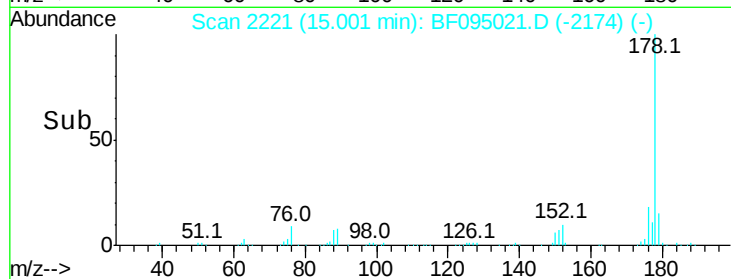
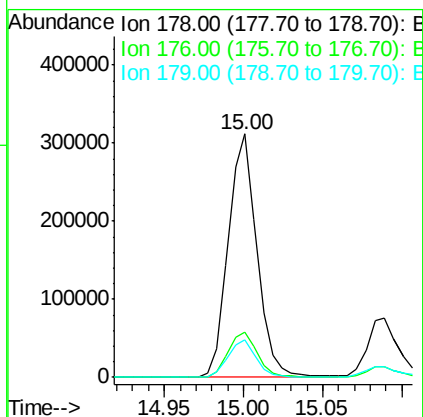
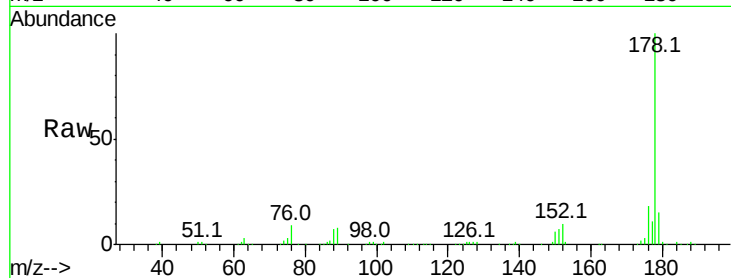




#70
Phenanthrene
Concen: 27.34 ng
RT: 15.00 min Scan# 2221
Delta R.T. -0.02 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

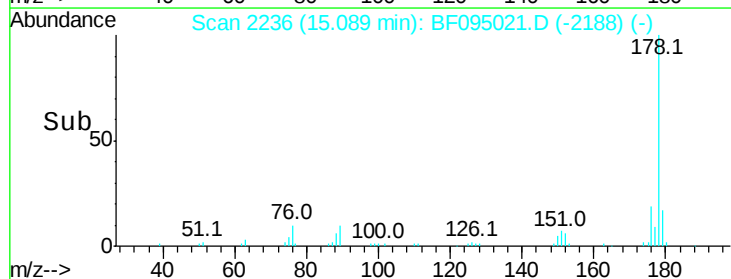
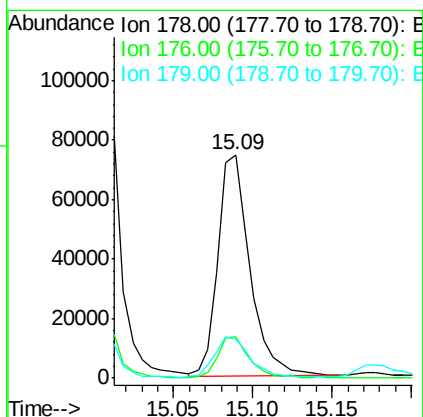
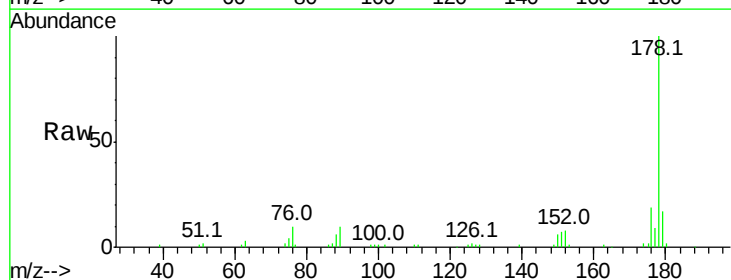
Instrument :
BNA_F
ClientSampleId :

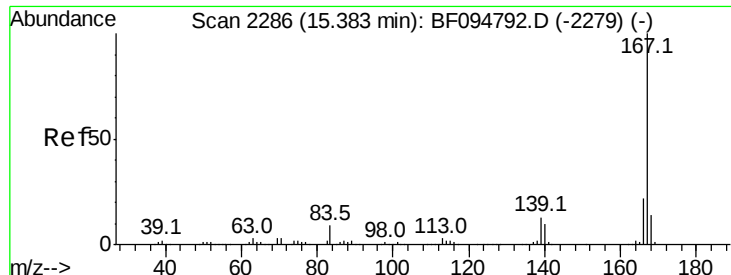
Tot Ion:178 Resp: 391461
Ion Ratio Lower Upper
178 100
176 18.3 16.2 24.4
179 15.3 12.6 19.0



#71
Anthracene
Concen: 7.15 ng
RT: 15.09 min Scan# 2236
Delta R.T. -0.02 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

Tgt Ion:178 Resp: 104570
Ion Ratio Lower Upper
178 100
176 18.5 15.8 23.8
179 17.2 12.7 19.1





#72

Carbazole

Concen: 3.36 ng

RT: 15.38 min Scan# 2285

Delta R.T. -0.01 min

Lab File: BF095021.D

Acq: 9 May 2017 13:43

Instrument :

BNA_F

ClientSampleId :

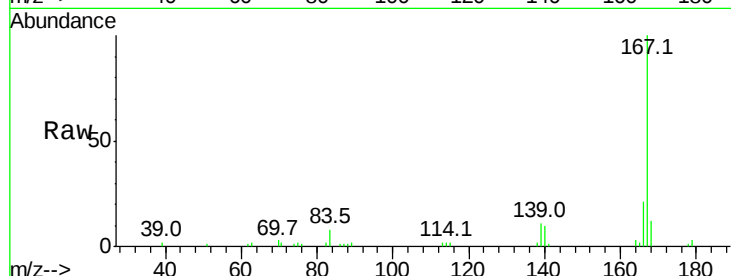
Tot Ion:167 Resp: 44669

Ion Ratio Lower Upper

167 100

166 20.6 18.1 27.1

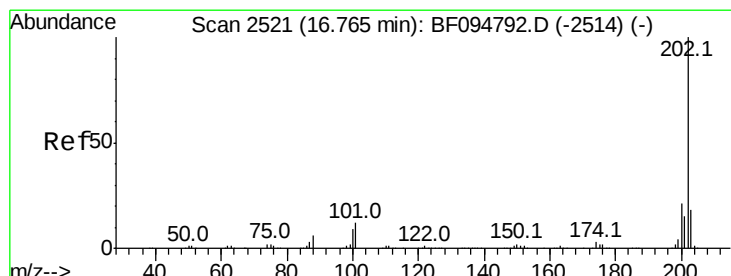
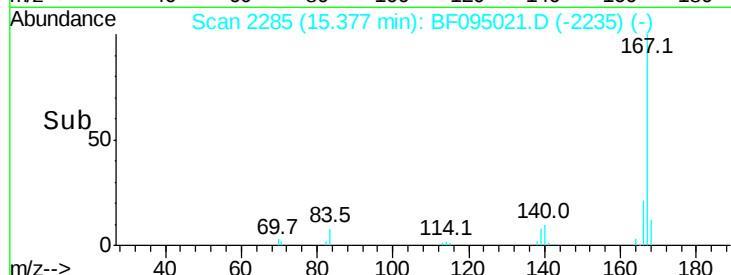
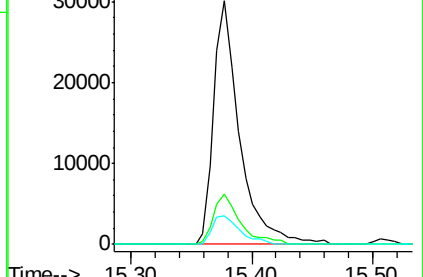
139 11.5 11.7 17.5#



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 20.96 ng

RT: 16.74 min Scan# 2517

Delta R.T. -0.02 min

Lab File: BF095021.D

Acq: 9 May 2017 13:43

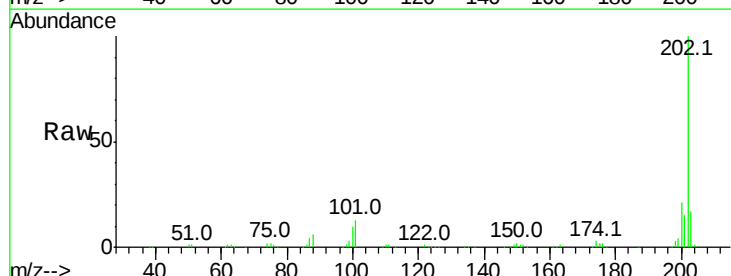
Tgt Ion:202 Resp: 307813

Ion Ratio Lower Upper

202 100

101 13.1 0.0 33.2

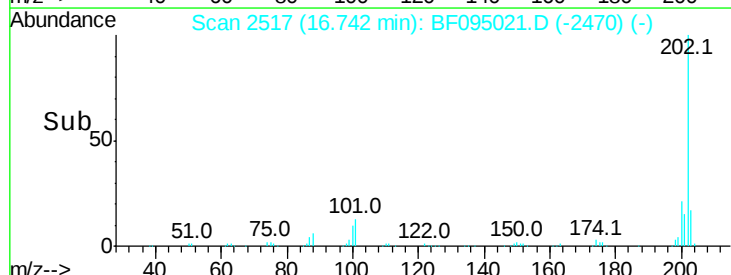
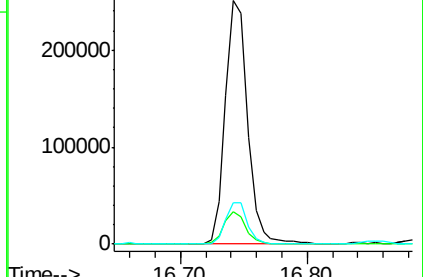
203 17.3 0.0 38.1

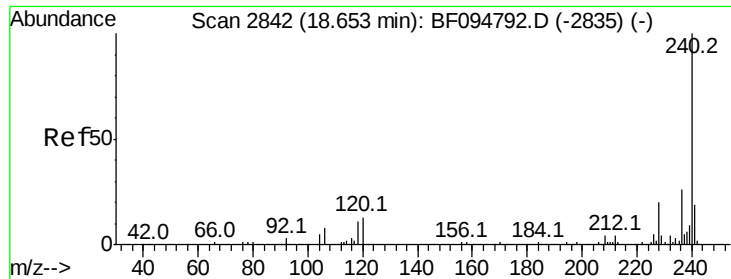


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

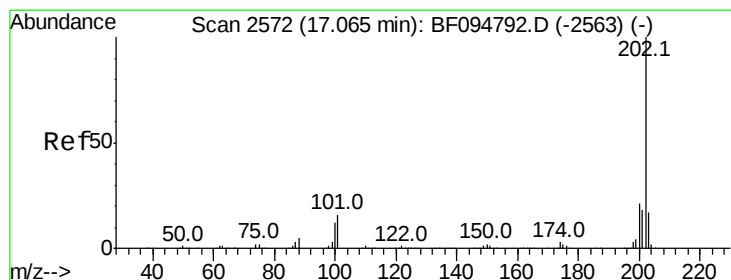
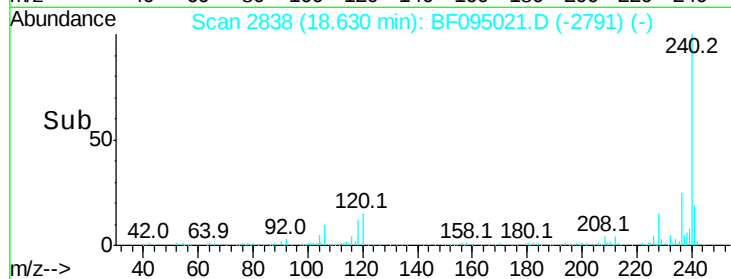
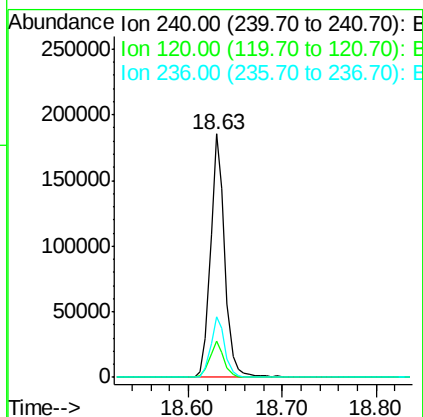
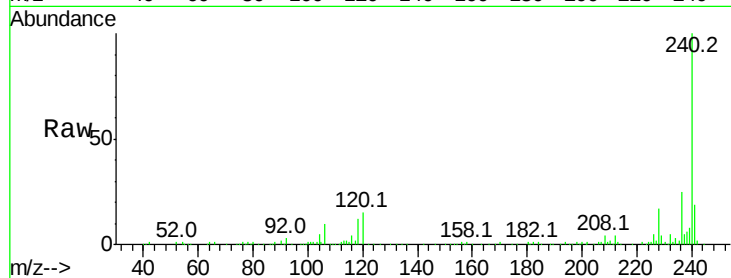




#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.63 min Scan# 2838
 Delta R.T. -0.02 min
 Lab File: BF095021.D
 Acq: 9 May 2017 13:43

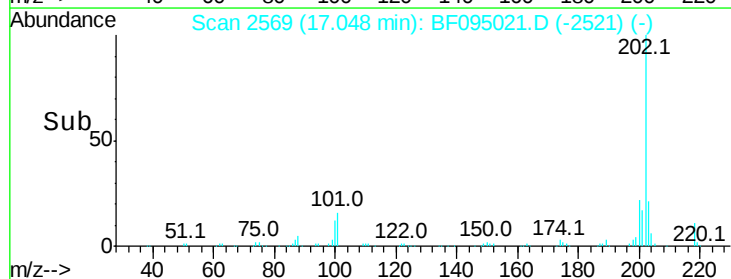
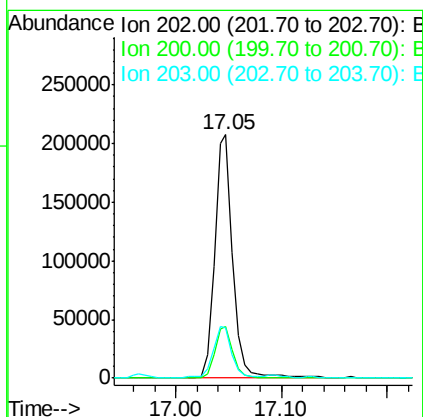
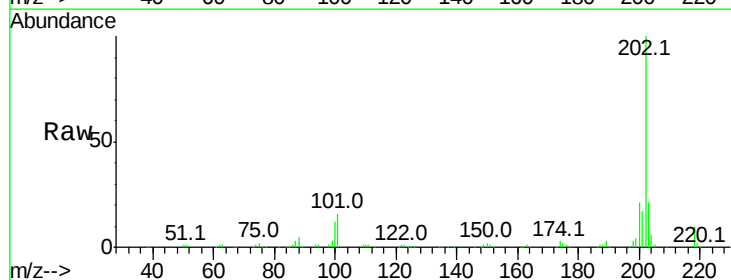
Instrument :
 BNA_F
 ClientSampleId :

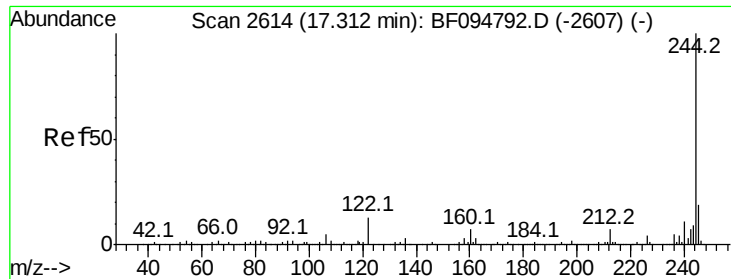
Tot Ion:240 Resp: 199224
 Ion Ratio Lower Upper
 240 100
 120 14.6 5.8 8.8#
 236 24.9 20.5 30.7



#77
 Pyrene
 Concen: 16.59 ng
 RT: 17.05 min Scan# 2569
 Delta R.T. -0.02 min
 Lab File: BF095021.D
 Acq: 9 May 2017 13:43

Tgt Ion:202 Resp: 247196
 Ion Ratio Lower Upper
 202 100
 200 21.2 17.6 26.4
 203 20.8 14.4 21.6

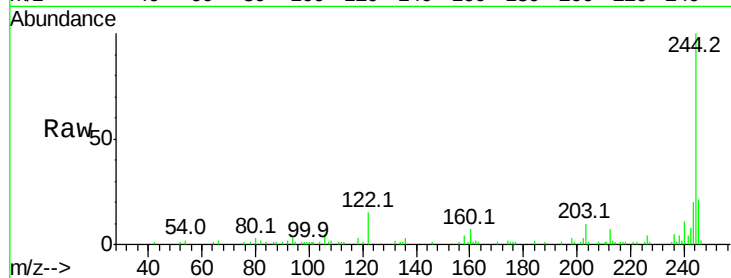




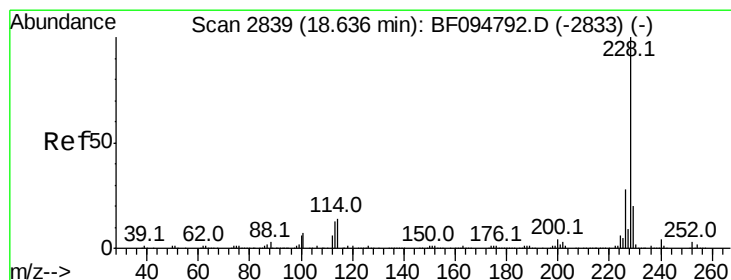
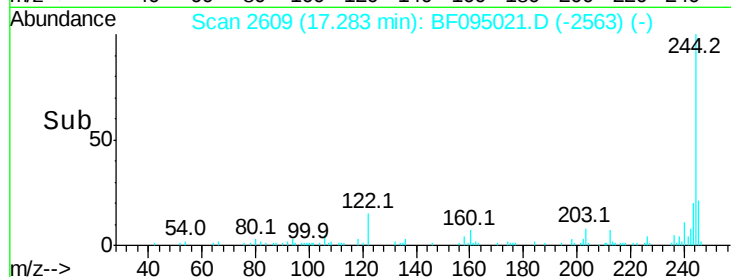
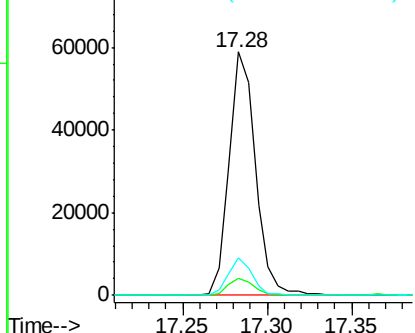
#78
 Terphenyl-d14
 Concen: 7.06 ng
 RT: 17.28 min Scan# 2609
 Delta R.T. -0.03 min
 Lab File: BF095021.D
 Acq: 9 May 2017 13:43

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:244 Resp: 63885
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 15.2 10.3 15.5

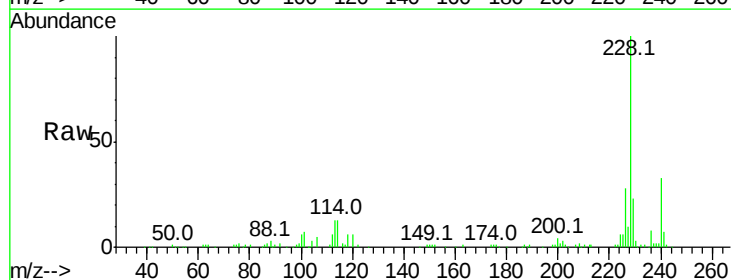


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

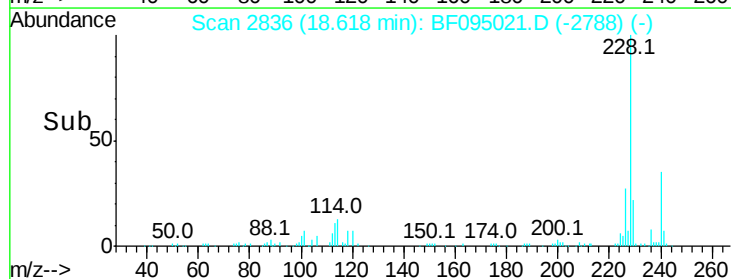
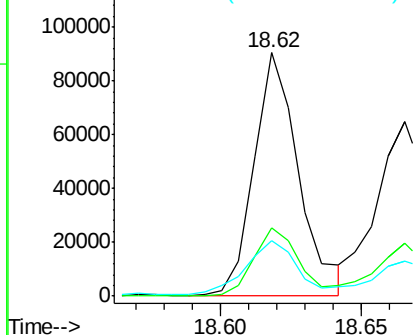


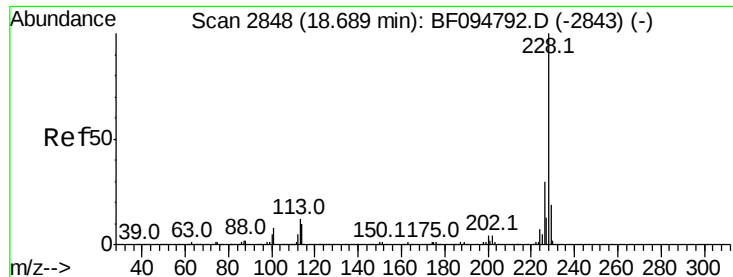
#80
 Benzo(a)anthracene
 Concen: 8.59 ng
 RT: 18.62 min Scan# 2836
 Delta R.T. -0.02 min
 Lab File: BF095021.D
 Acq: 9 May 2017 13:43

Tgt Ion:228 Resp: 99627
 Ion Ratio Lower Upper
 228 100
 226 28.3 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

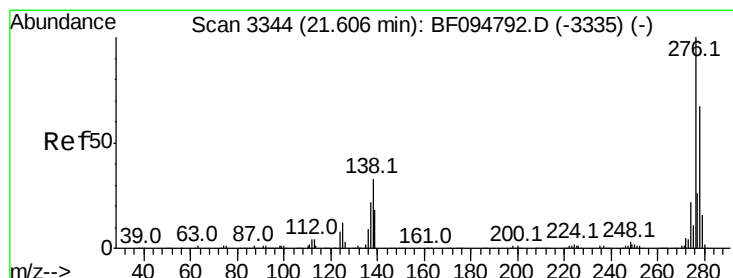
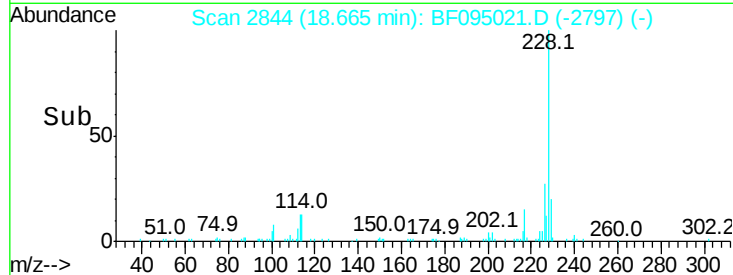
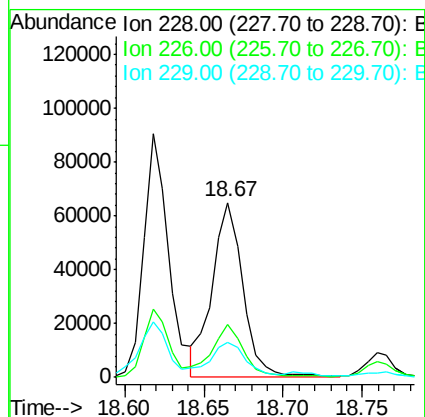
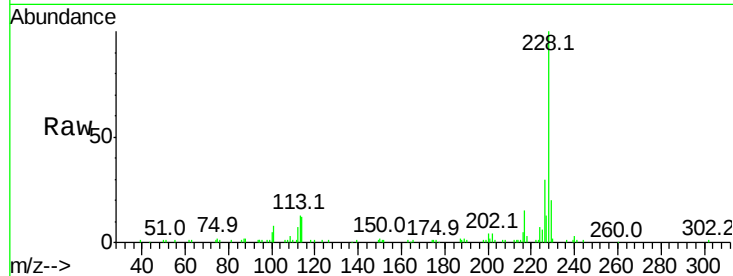




#82
Chrysene
Concen: 7.82 ng
RT: 18.67 min Scan# 2844
Delta R.T. -0.02 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

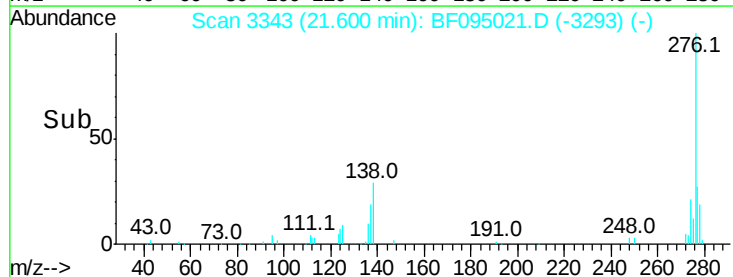
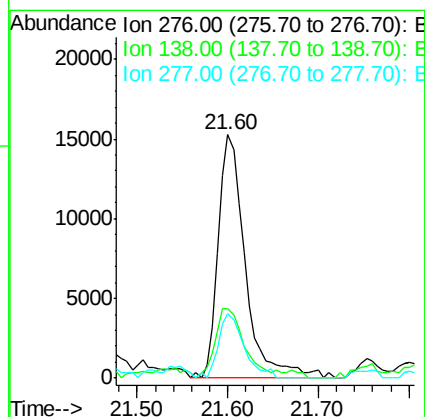
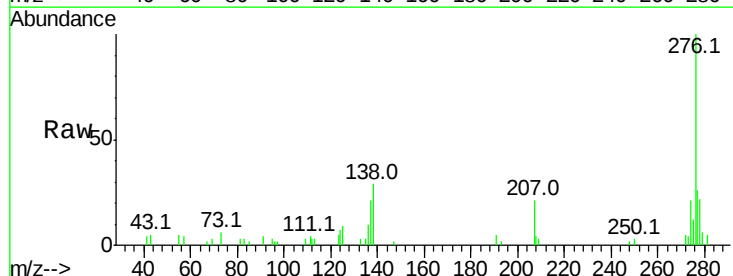
Instrument :
BNA_F
ClientSampleId :

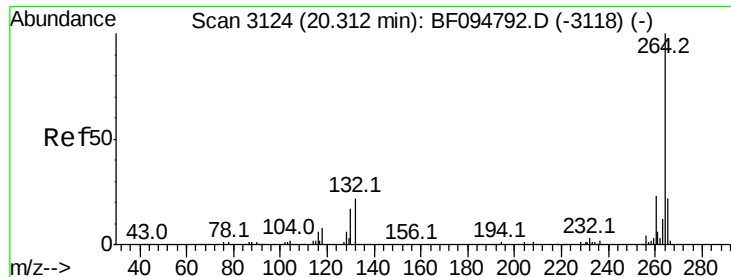
Tot Ion:228 Resp: 87718
Ion Ratio Lower Upper
228 100
226 30.3 24.9 37.3
229 20.0 15.8 23.6



#85
Indeno(1,2,3-cd)pyrene
Concen: 3.49 ng
RT: 21.60 min Scan# 3343
Delta R.T. -0.01 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

Tgt Ion:276 Resp: 31736
Ion Ratio Lower Upper
276 100
138 30.3 27.8 41.6
277 24.9 20.2 30.4

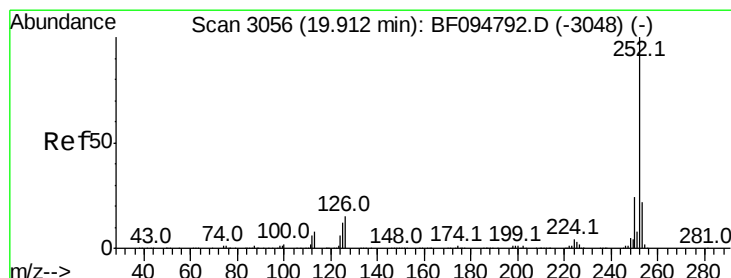
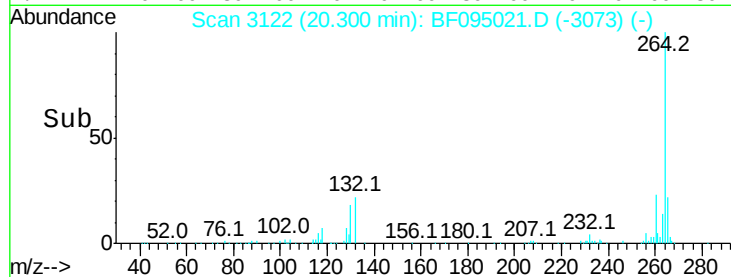
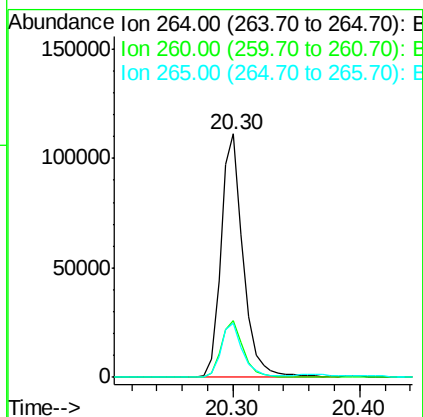
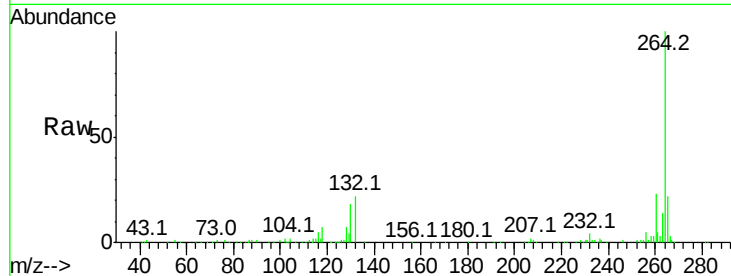




#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.30 min Scan# 3122
Delta R.T. -0.01 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

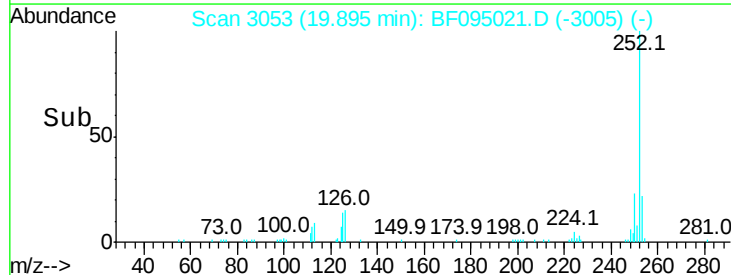
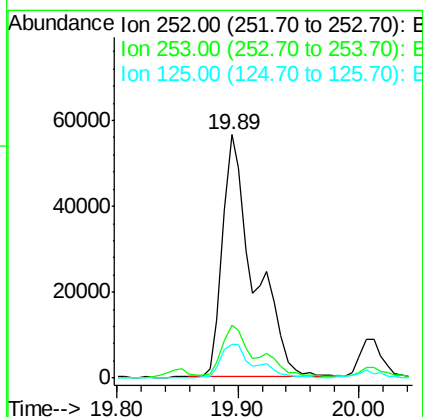
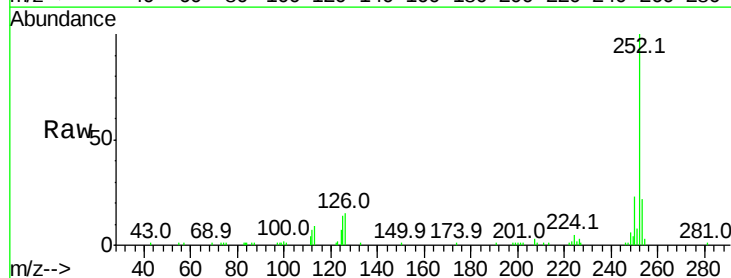
Instrument :
BNA_F
ClientSampled :

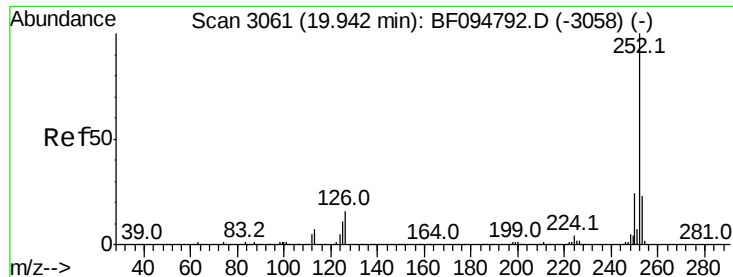
Tot Ion:264 Resp: 134975
Ion Ratio Lower Upper
264 100
260 23.3 19.5 29.3
265 22.0 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 12.17 ng
RT: 19.89 min Scan# 3053
Delta R.T. -0.02 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

Tgt Ion:252 Resp: 101489
Ion Ratio Lower Upper
252 100
253 21.6 18.1 27.1
125 13.6 9.8 14.8

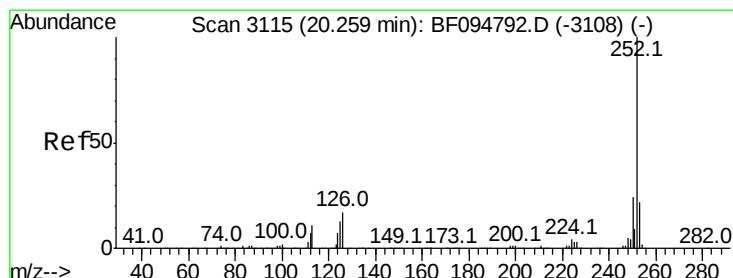
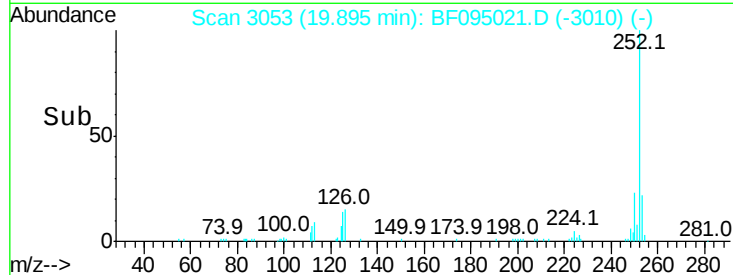
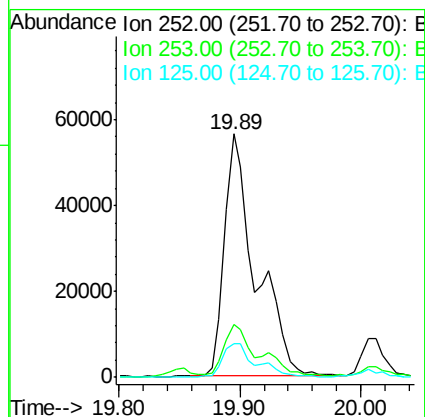
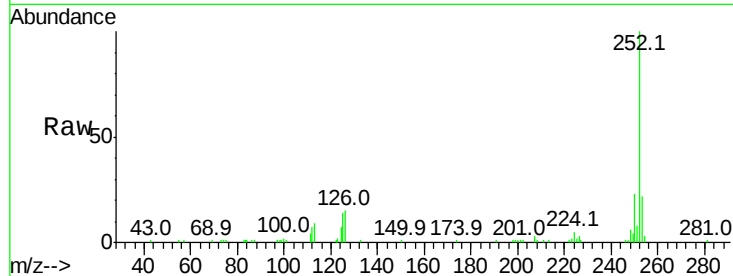




#88
Benzo(k)fluoranthene
Concen: 12.62 ng
RT: 19.89 min Scan# 3053
Delta R.T. -0.05 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

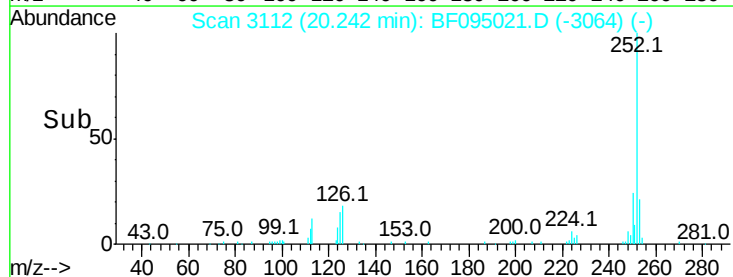
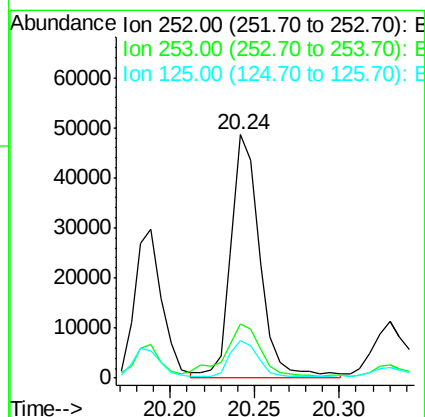
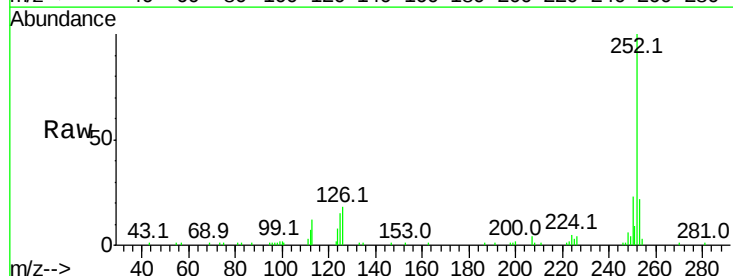
Instrument :
BNA_F
ClientSampleId :

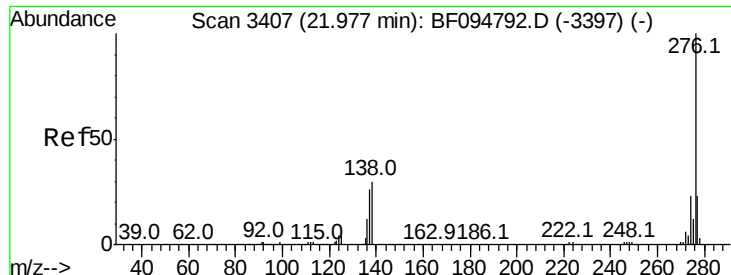
Tot Ion:252 Resp: 101489
Ion Ratio Lower Upper
252 100
253 21.6 18.4 27.6
125 13.6 13.1 19.7



#89
Benzo(a)pyrene
Concen: 7.58 ng
RT: 20.24 min Scan# 3112
Delta R.T. -0.02 min
Lab File: BF095021.D
Acq: 9 May 2017 13:43

Tgt Ion:252 Resp: 58337
Ion Ratio Lower Upper
252 100
253 22.1 17.5 26.3
125 15.3 11.0 16.4





#91

Benzo(a,h,i)perylene

Concen: 4.55 ng

RT: 21.98 min Scan# 3407

Delta R.T. 0.00 min

Lab File: BF095021.D

Acq: 9 May 2017 13:43

Instrument :

BNA_F

ClientSampleId :

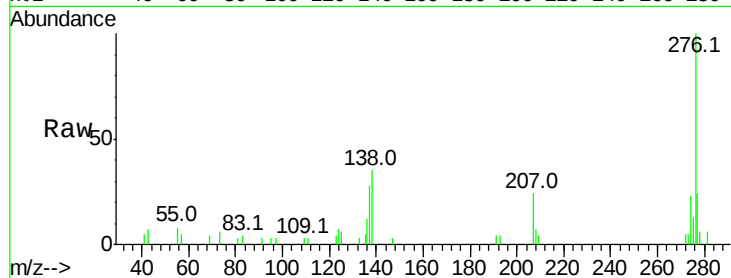
Tot Ion: 276 Resp: 28362

Ion Ratio Lower Upper

276 100

277 23.9 18.6 28.0

138 34.7 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

