

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052417\
 Data File : BF095414.D
 Acq On : 25 May 2017 8:17
 Operator : SJ/MA
 Sample : I3300-01 10X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 25 08:50:26 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 18 17:07:53 2017
 Response via : Initial Calibration

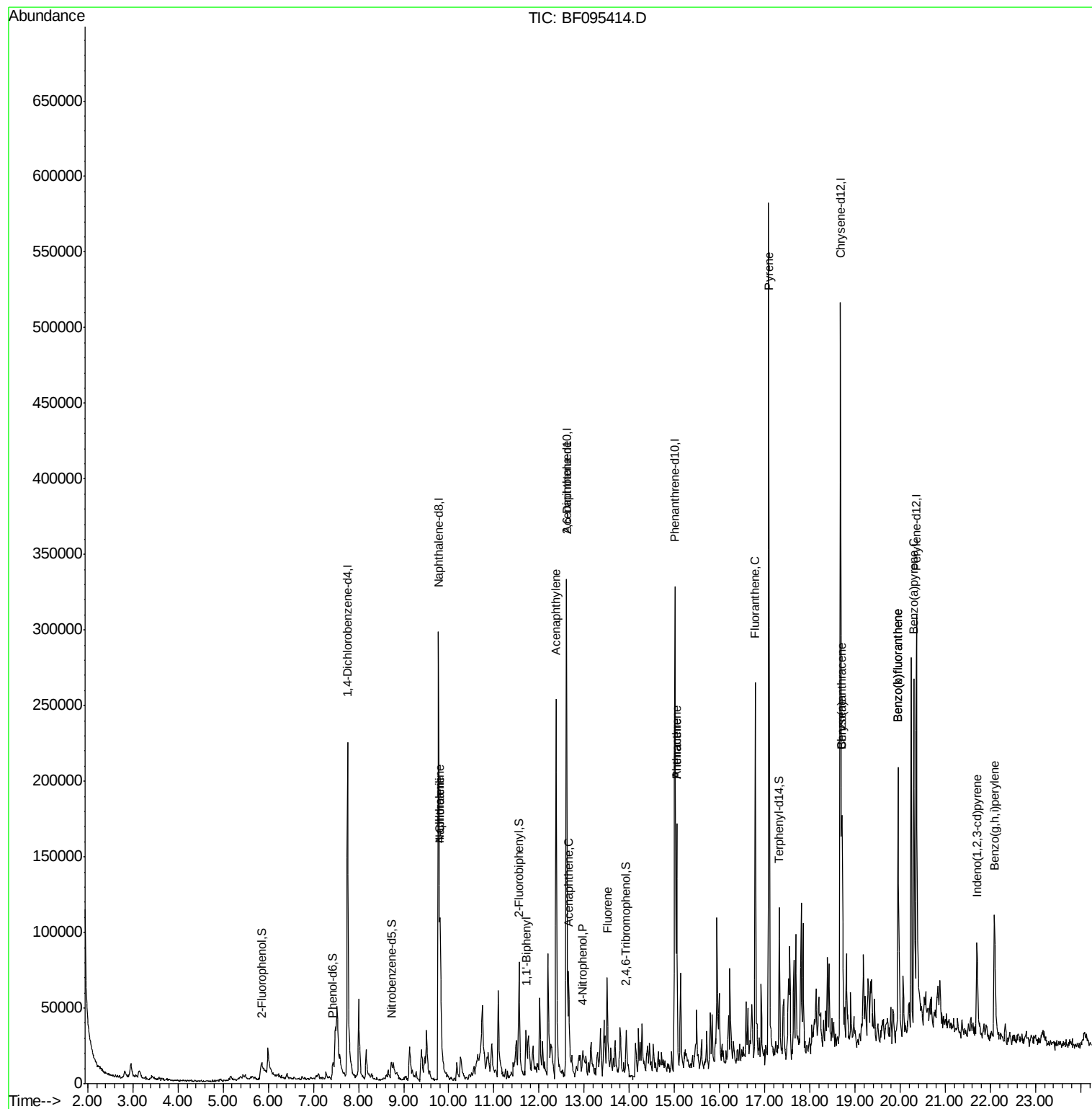
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.75	152	73472	20.00	ng	-0.01
21) Naphthalene-d8	9.77	136	288750	20.00	ng	-0.01
38) Acenaphthene-d10	12.61	164	113944	20.00	ng	-0.01
63) Phenanthrene-d10	15.01	188	192433	20.00	ng	-0.02
75) Chrysene-d12	18.68	240	182262	20.00	ng	-0.01
86) Perylene-d12	20.36	264	121711	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.85	112	15856	3.60	ng	0.11
7) Phenol-d6	7.43	99	16287	3.08	ng	0.12
23) Nitrobenzene-d5	8.72	82	21665	4.73	ng	0.05
41) 2,4,6-Tribromophenol	13.94	330	6673	7.15	ng	0.02
44) 2-Fluorobiphenyl	11.55	172	43201	5.46	ng	-0.01
78) Terphenyl-d14	17.32	244	35164	4.25	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	9.81	128	91932	6.33	ng	99
33) 4-Chloroaniline	9.81	127	11094	2.05	ng	# 36
45) 1,1'-Biphenyl	11.71	154	21234	2.21	ng	96
48) Acenaphthylene	12.38	152	193287	15.93	ng	99
50) 2,6-Dinitrotoluene	12.60	165	14136	7.41	ng	# 31
51) Acenaphthene	12.65	154	21611	2.98	ng	99
55) 4-Nitrophenol	12.97	139	3234	2.63	ng	# 25
57) Fluorene	13.51	166	34321	3.94	ng	98
70) Phenanthrene	15.05	178	99722	9.02	ng	98
71) Anthracene	15.05	178	99722	8.83	ng	98
74) Fluoranthene	16.79	202	134821	11.89	ng	98
77) Pyrene	17.09	202	310243	22.76	ng	99
80) Benzo(a)anthracene	18.71	228	87488	8.25	ng	95
82) Chrysene	18.71	228	87488	8.53	ng	98
85) Indeno(1,2,3-cd)pyrene	21.70	276	46791	5.62	ng	# 88
87) Benzo(b)fluoranthene	19.95	252	118960	15.82	ng	# 96
88) Benzo(k)fluoranthene	19.95	252	118960	16.40	ng	98
89) Benzo(a)pyrene	20.31	252	113347	16.33	ng	97
91) Benzo(a,h,i)perylene	22.09	276	73972	13.15	ng	98

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

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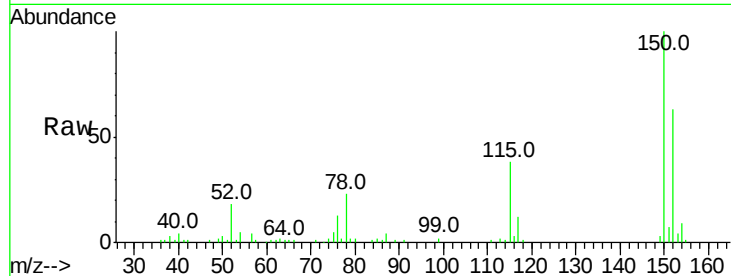


#1

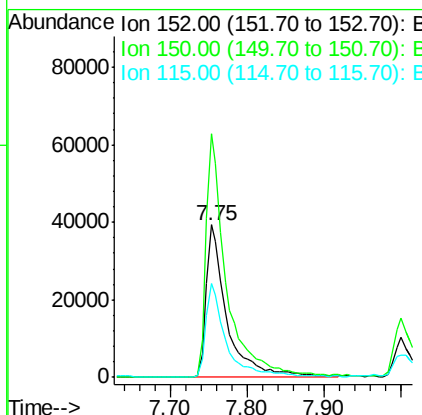
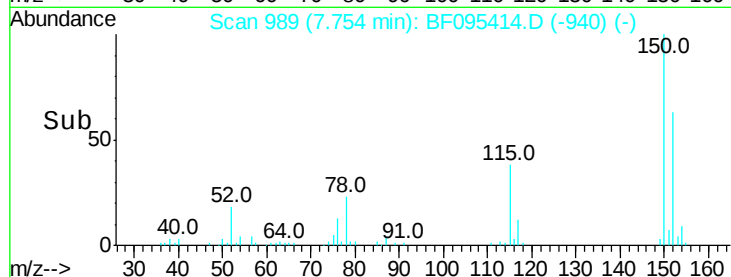
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.75 min Scan# 989
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 73472
Ion Ratio Lower Upper
152 100
150 159.9 126.2 189.2
115 61.4 52.2 78.2



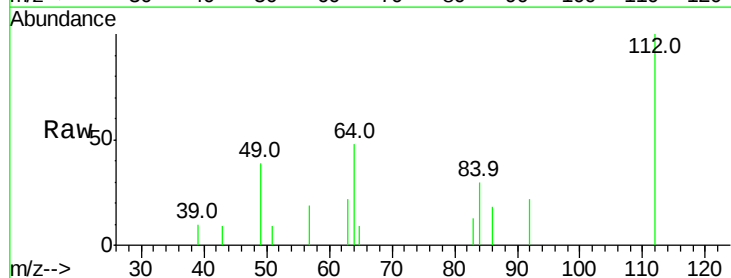
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



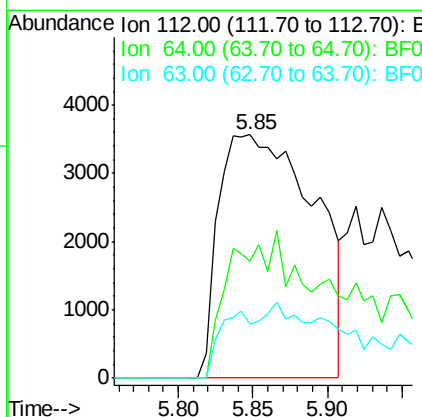
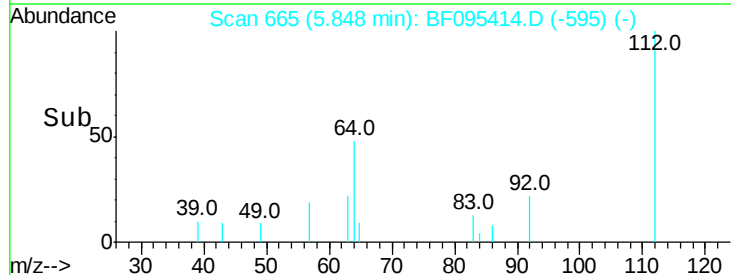
#5

2-Fluorophenol
Concen: 3.60 ng
RT: 5.85 min Scan# 665
Delta R.T. 0.11 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:112 Resp: 15856
Ion Ratio Lower Upper
112 100
64 48.1 46.0 69.0
63 22.4 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: 3.08 ng

RT: 7.43 min Scan# 934

Delta R.T. 0.12 min

Lab File: BF095414.D

Acq: 25 May 2017 8:17

Instrument :

BNA_F

ClientSampled :

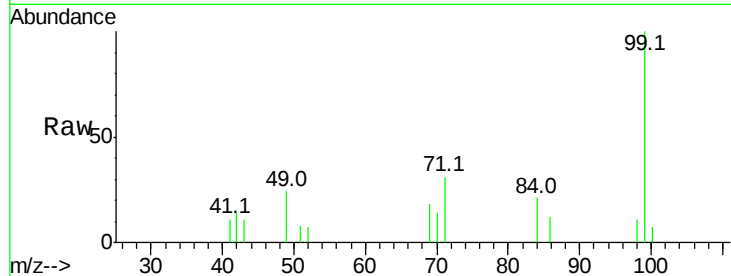
Tot Ion: 99 Resp: 16287

Ion Ratio Lower Upper

99 100

42 13.8 13.5 20.3

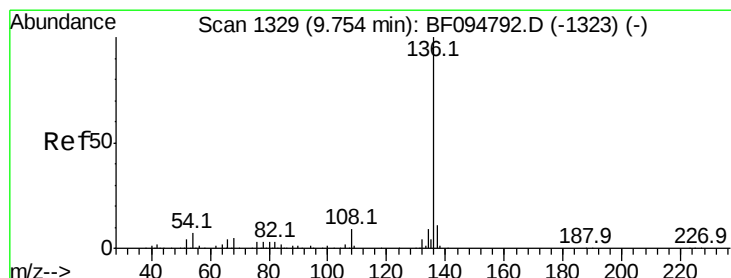
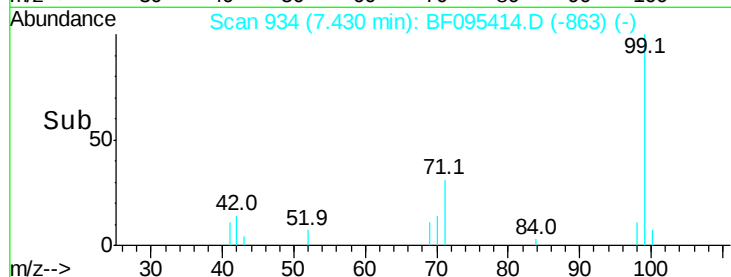
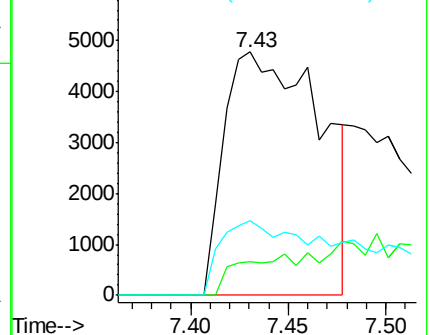
71 30.8 24.5 36.7



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: 9.77 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF095414.D

Acq: 25 May 2017 8:17

Tgt Ion: 136 Resp: 288750

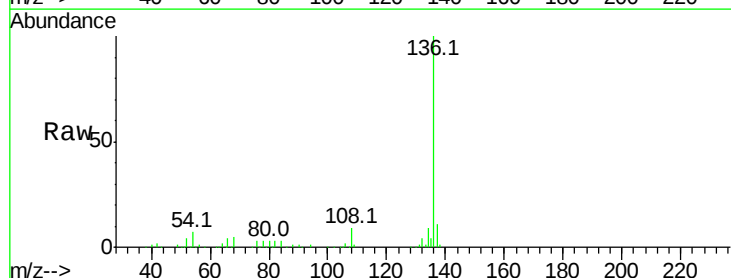
Ion Ratio Lower Upper

136 100

137 11.4 8.5 12.7

54 7.2 4.9 7.3

68 5.3 4.1 6.1

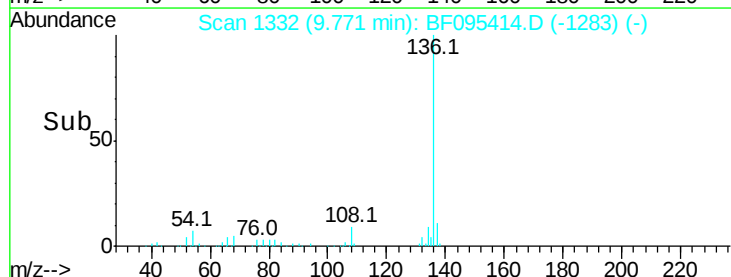
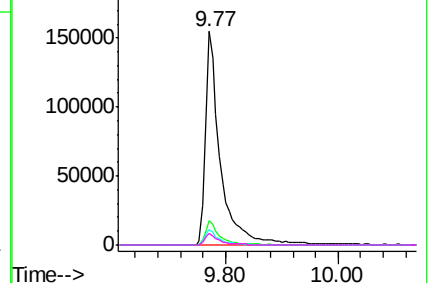


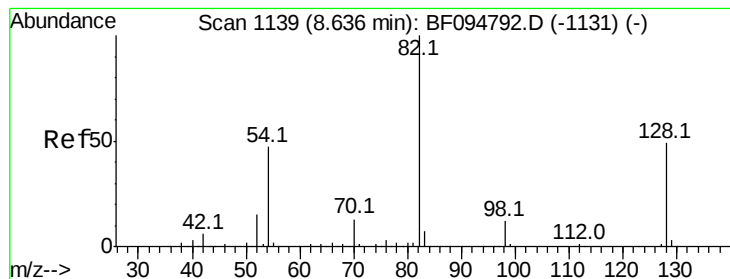
Abundance Ion 136.00 (135.70 to 136.70): E

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: 4.73 ng

RT: 8.72 min Scan# 1154

Delta R.T. 0.05 min

Lab File: BF095414.D

Acq: 25 May 2017 8:17

Instrument :

BNA_F

ClientSampleId :

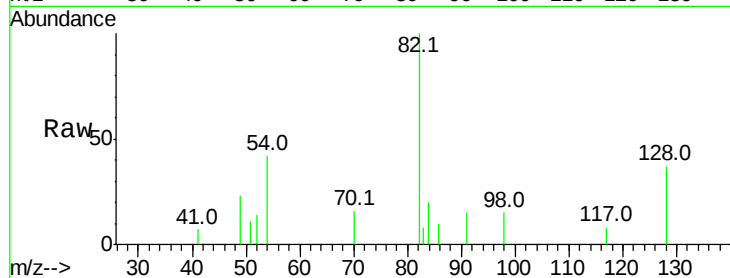
Tot Ion: 82 Resp: 21665

Ion Ratio Lower Upper

82 100

128 37.1 34.0 51.0

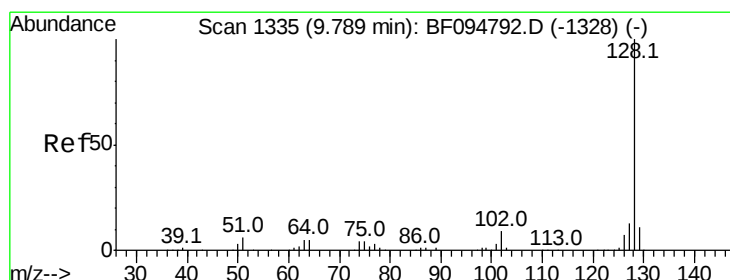
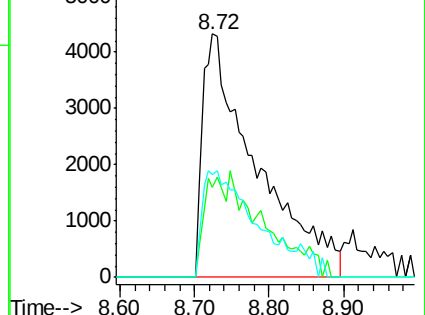
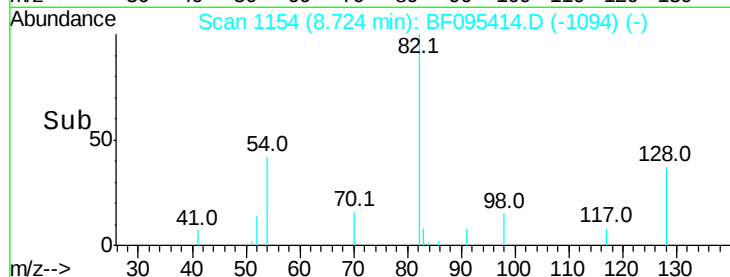
54 42.0 42.2 63.2#



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



#31

Naphthalene

Concen: 6.33 ng

RT: 9.81 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BF095414.D

Acq: 25 May 2017 8:17

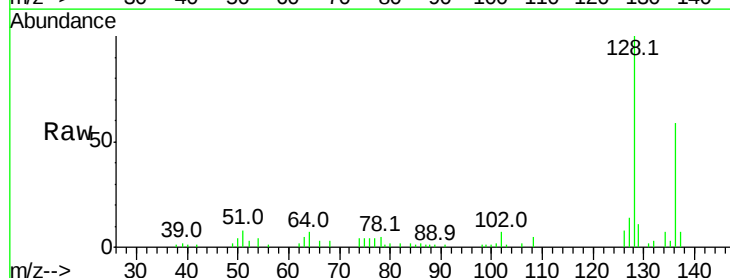
Tgt Ion: 128 Resp: 91932

Ion Ratio Lower Upper

128 100

129 10.8 9.0 13.6

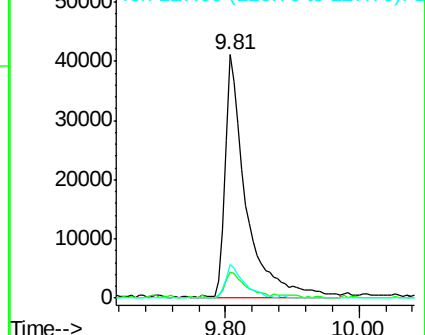
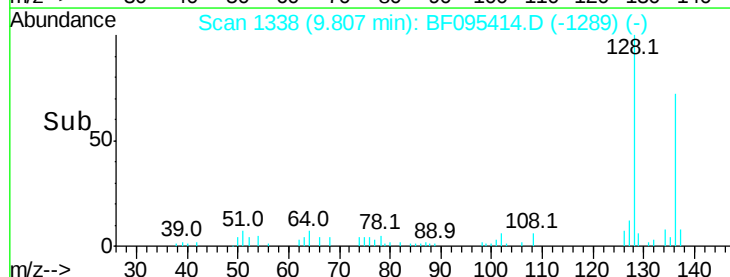
127 14.0 10.8 16.2

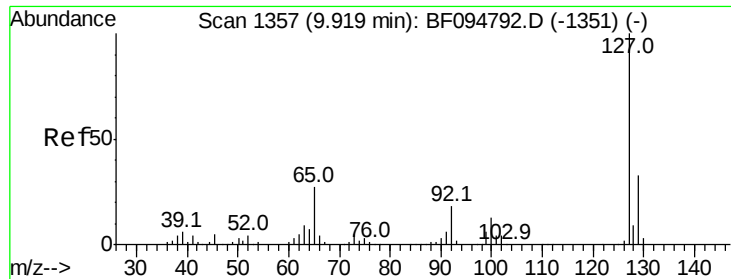


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

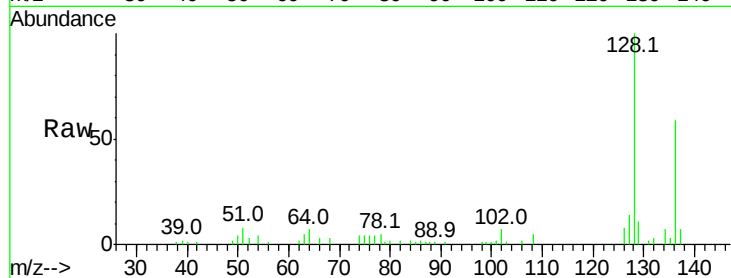




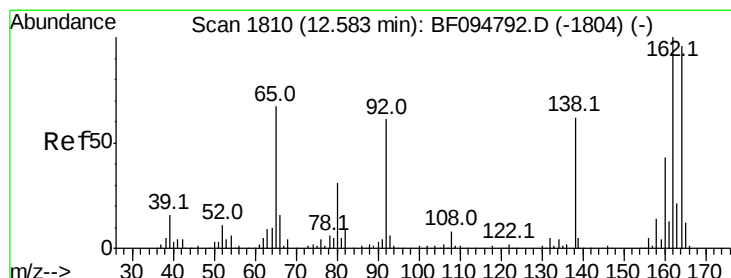
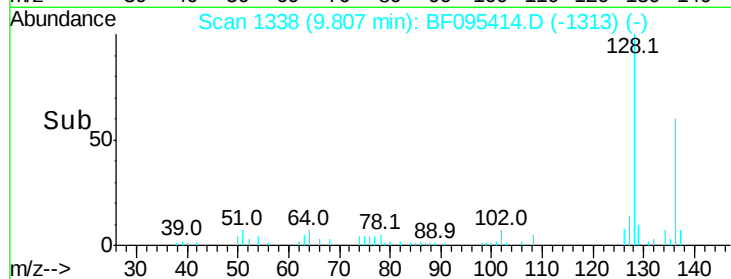
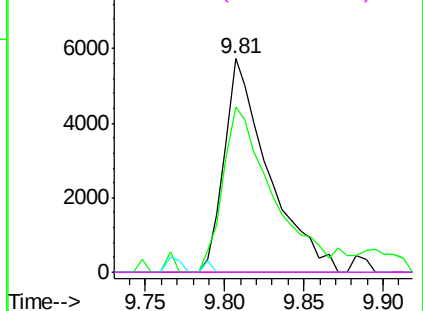
#33
4-Chloroaniline
Concen: 2.05 ng
RT: 9.81 min Scan# 1338
Delta R.T. -0.15 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	127	Resp:	11094
Ion	Ratio	Lower	Upper
127	100		
129	77.4	26.2	39.2#
65	0.0	27.8	41.8#
92	0.0	16.8	25.2#

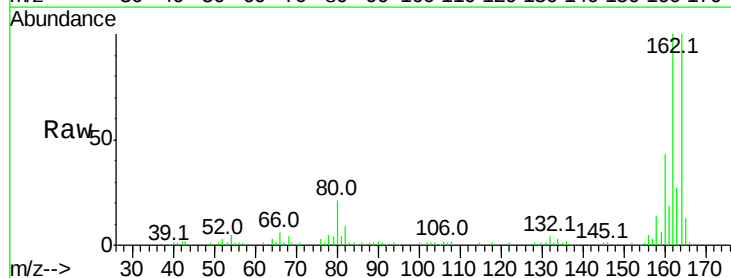


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0

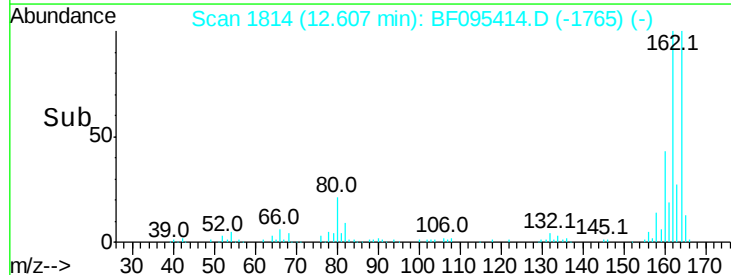
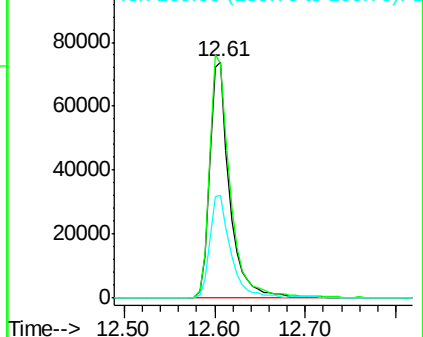


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.61 min Scan# 1814
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:	164	Resp:	113944
Ion	Ratio	Lower	Upper
164	100		
162	99.5	82.6	123.8
160	43.4	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

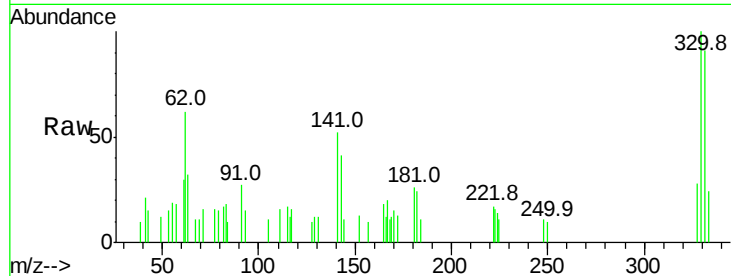




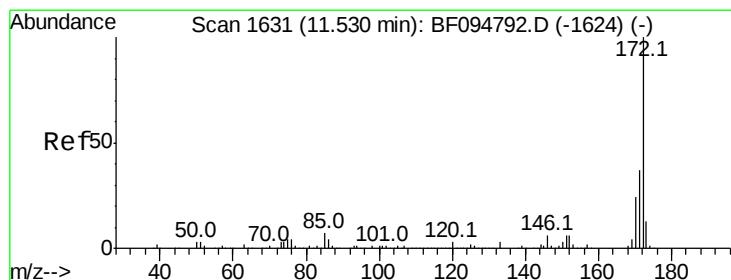
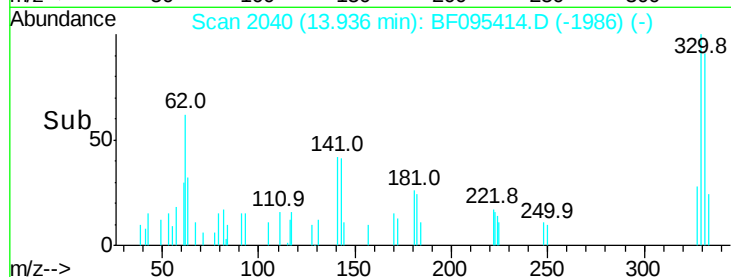
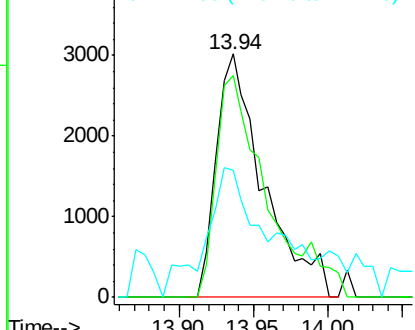
#41
 2,4,6-Tribromophenol
 Concen: 7.15 ng
 RT: 13.94 min Scan# 2040
 Delta R.T. 0.02 min
 Lab File: BF095414.D
 Acq: 25 May 2017 8:17

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 6673
 Ion Ratio Lower Upper
 330 100
 332 98.8 76.6 115.0
 141 73.9 31.4 47.2#

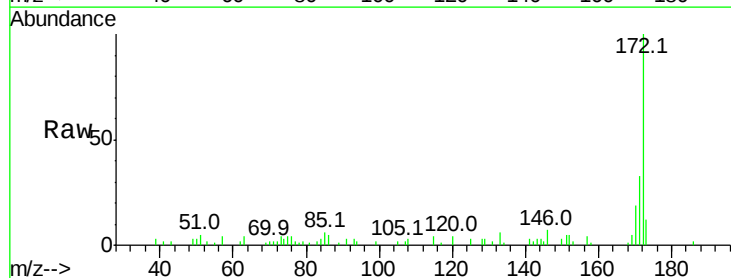


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

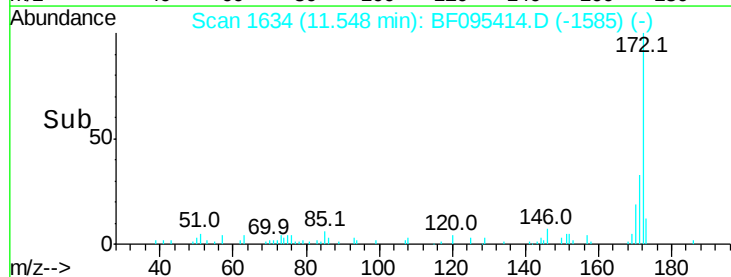
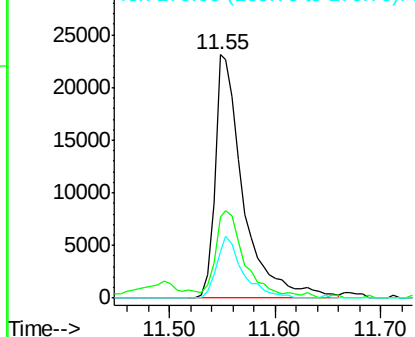


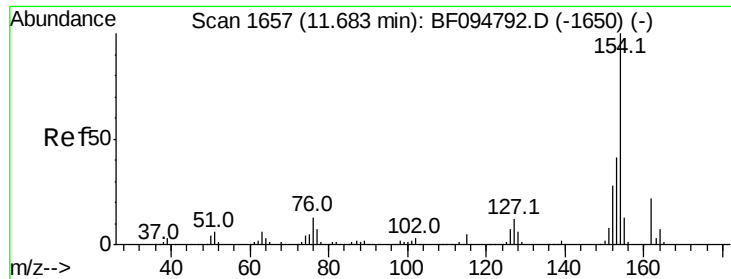
#44
 2-Fluorobiphenyl
 Concen: 5.46 ng
 RT: 11.55 min Scan# 1634
 Delta R.T. -0.01 min
 Lab File: BF095414.D
 Acq: 25 May 2017 8:17

Tgt Ion:172 Resp: 43201
 Ion Ratio Lower Upper
 172 100
 171 33.2 29.6 44.4
 170 18.9 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





#45

1,1'-Biphenyl

Concen: 2.21 ng

RT: 11.71 min Scan# 1662

Delta R.T. -0.00 min

Lab File: BF095414.D

Acq: 25 May 2017 8:17

Instrument :

BNA_F

ClientSampleId :

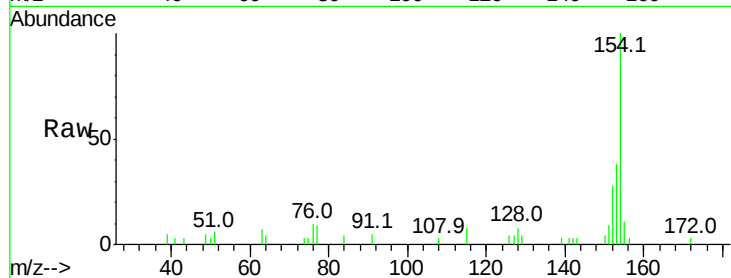
Tot Ion:154 Resp: 21234

Ion Ratio Lower Upper

154 100

153 38.0 21.2 61.2

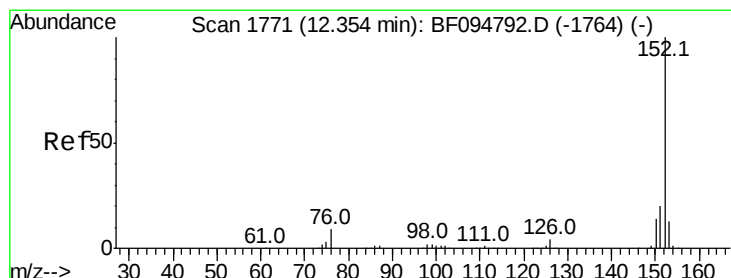
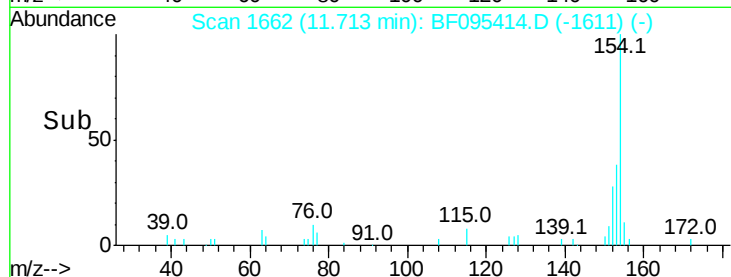
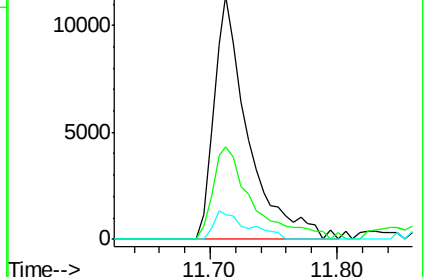
76 10.3 0.0 29.9



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 15.93 ng

RT: 12.38 min Scan# 1775

Delta R.T. -0.01 min

Lab File: BF095414.D

Acq: 25 May 2017 8:17

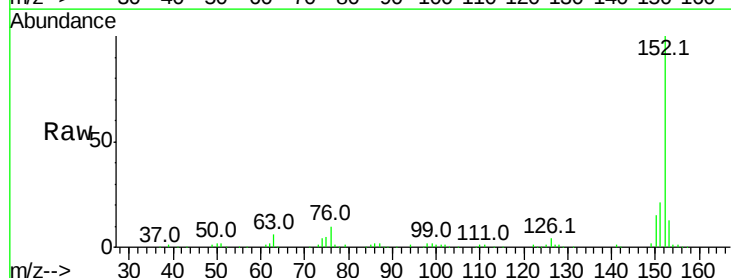
Tgt Ion:152 Resp: 193287

Ion Ratio Lower Upper

152 100

151 20.7 16.8 25.2

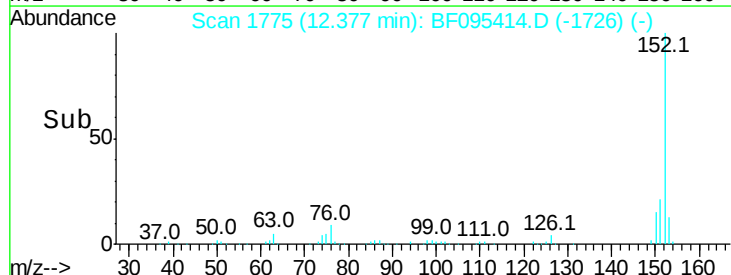
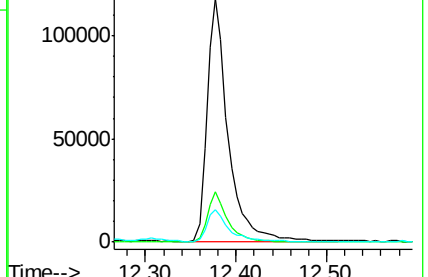
153 13.2 10.8 16.2

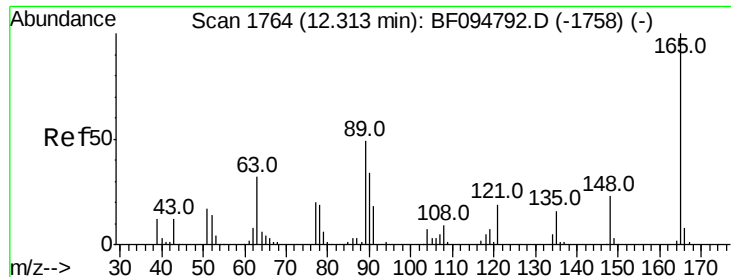


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

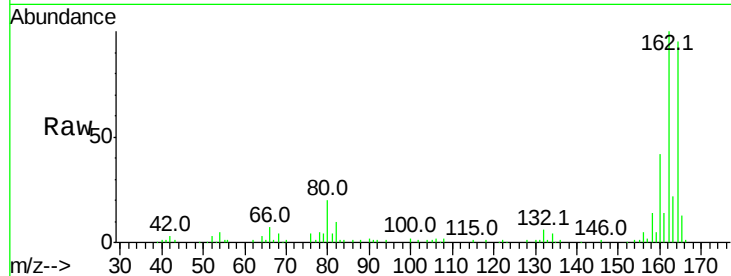




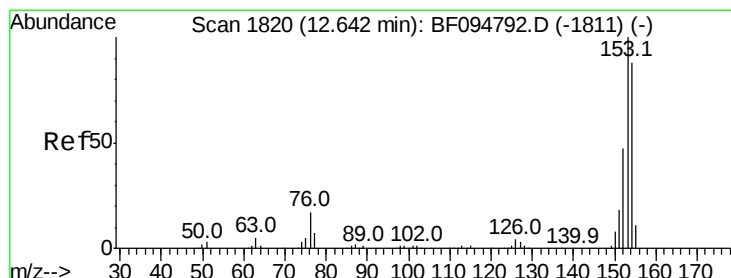
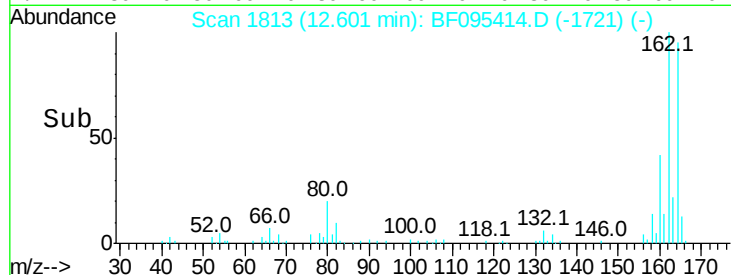
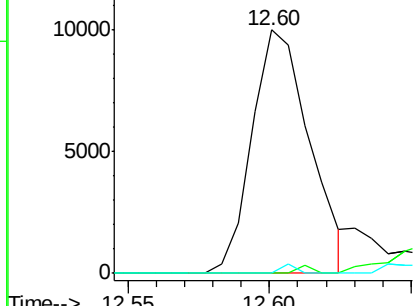
#50
 2,6-Dinitrotoluene
 Concen: 7.41 ng
 RT: 12.60 min Scan# 1813
 Delta R.T. 0.24 min
 Lab File: BF095414.D
 Acq: 25 May 2017 8:17

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#

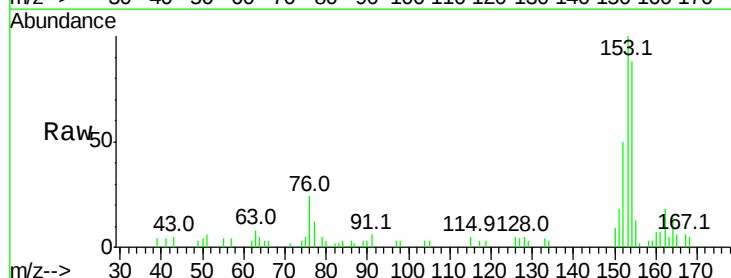


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

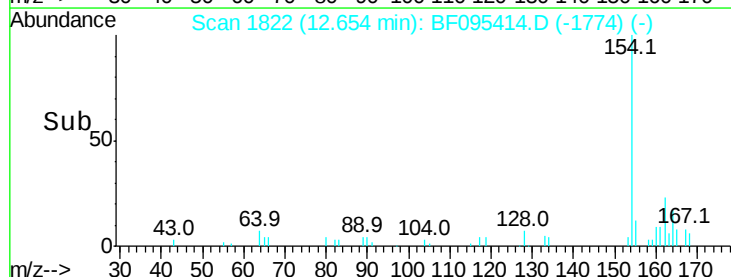
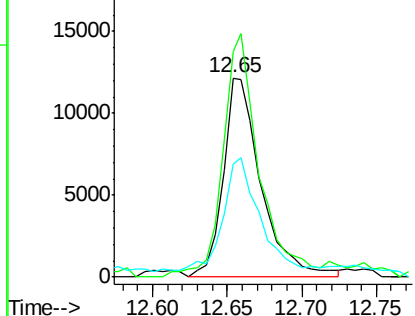


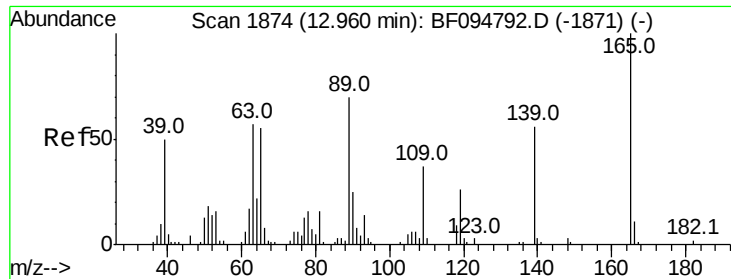
#51
 Acenaphthene
 Concen: 2.98 ng
 RT: 12.65 min Scan# 1822
 Delta R.T. -0.02 min
 Lab File: BF095414.D
 Acq: 25 May 2017 8:17

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.4	90.5	135.7
152	56.7	43.6	65.4



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 152.00 (151.70 to 152.70): E

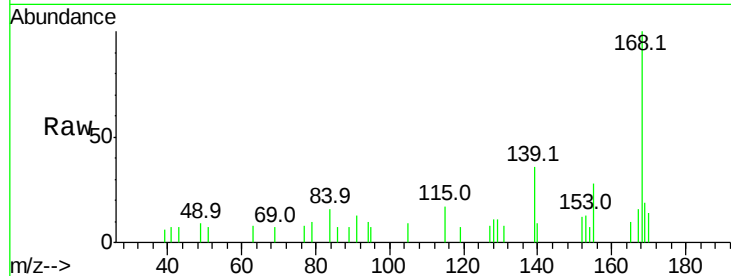




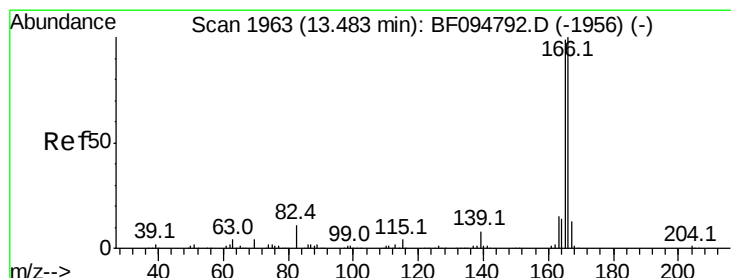
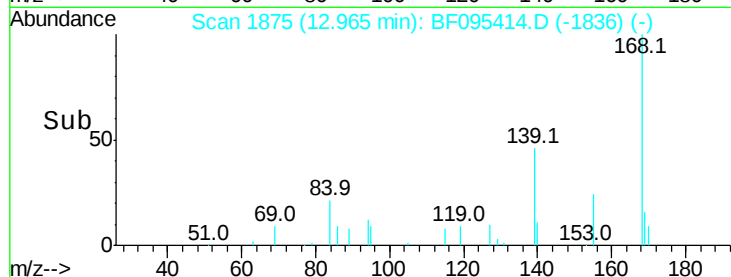
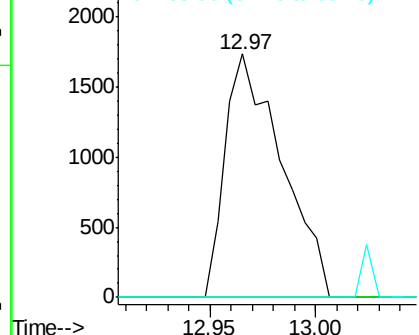
#55
4-Nitrophenol
Concen: 2.63 ng
RT: 12.97 min Scan# 1875
Delta R.T. -0.07 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Instrument :
BNA_F
ClientSampleId :

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

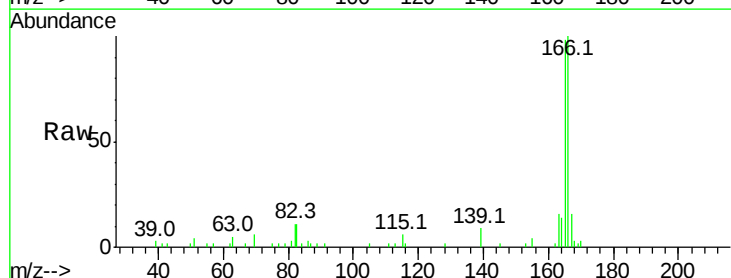


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): E

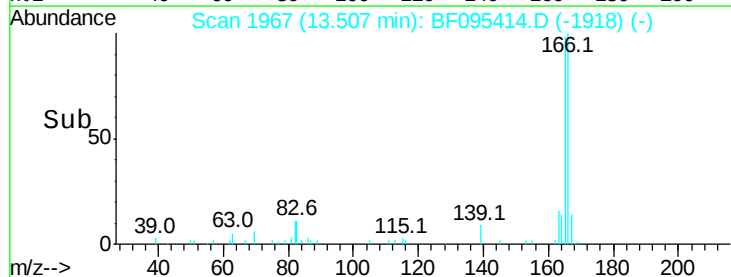
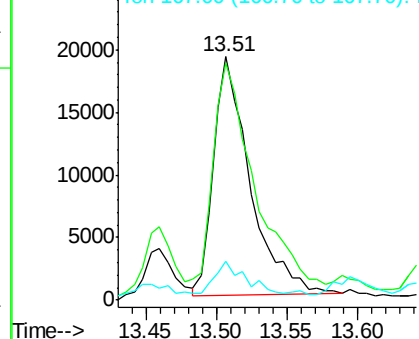


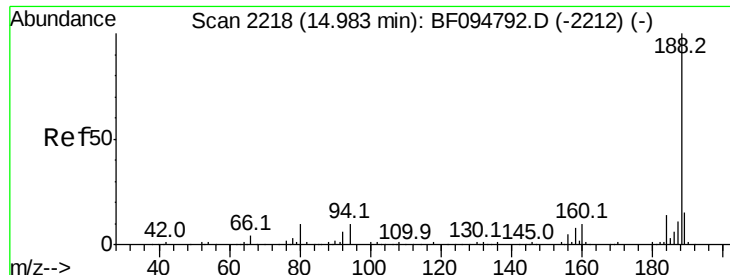
#57
Fluorene
Concen: 3.94 ng
RT: 13.51 min Scan# 1967
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.8	118.2
167	15.9	10.6	16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

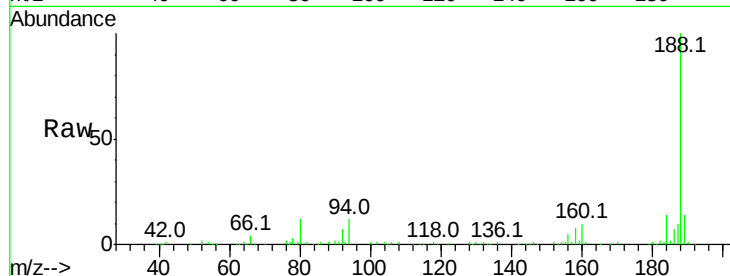




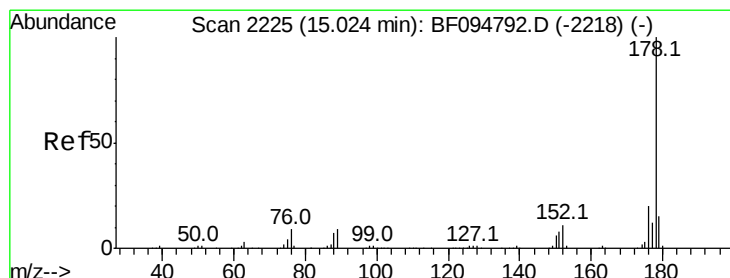
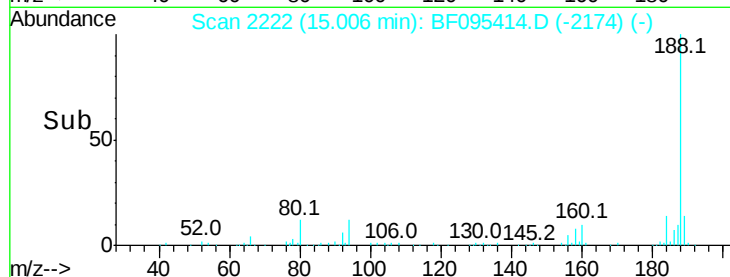
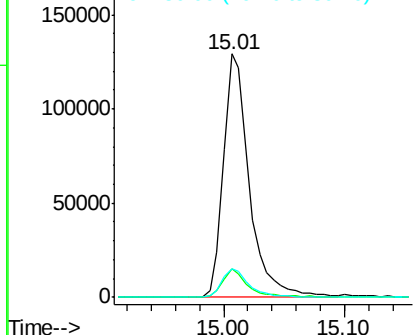
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 15.01 min Scan# 2222
Delta R.T. -0.02 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 192433
Ion Ratio Lower Upper
188 100
94 11.6 9.4 14.2
80 12.0 10.2 15.2

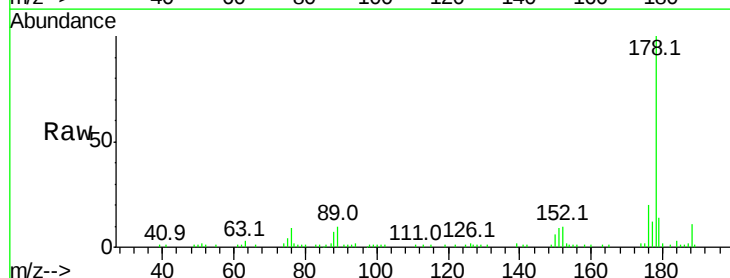


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

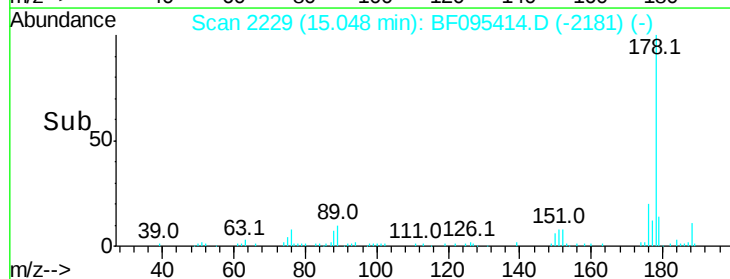
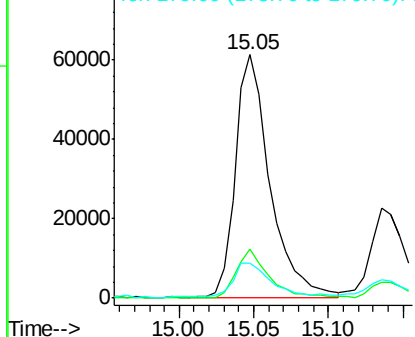


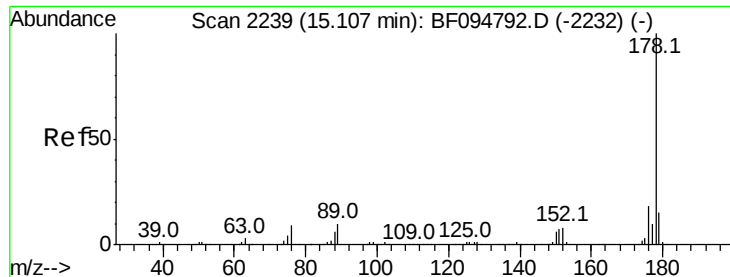
#70
Phenanthrene
Concen: 9.02 ng
RT: 15.05 min Scan# 2229
Delta R.T. -0.02 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:178 Resp: 99722
Ion Ratio Lower Upper
178 100
176 20.1 16.2 24.4
179 14.4 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

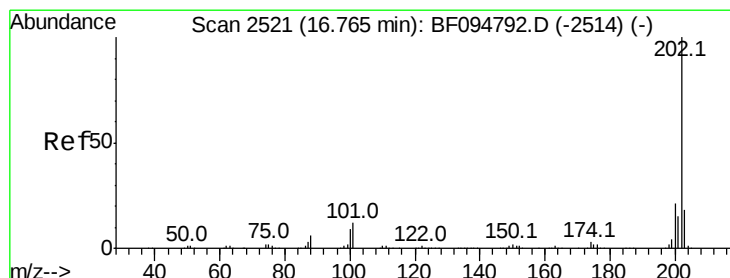
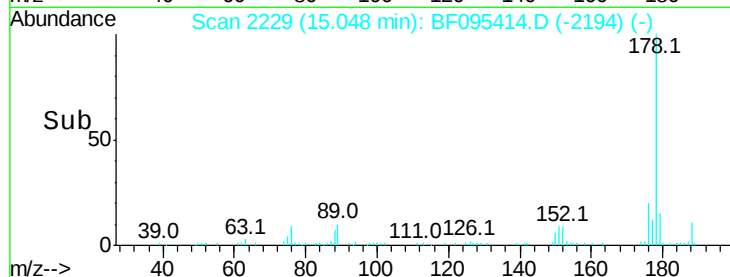
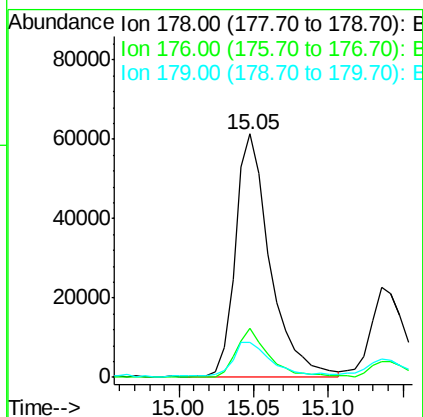
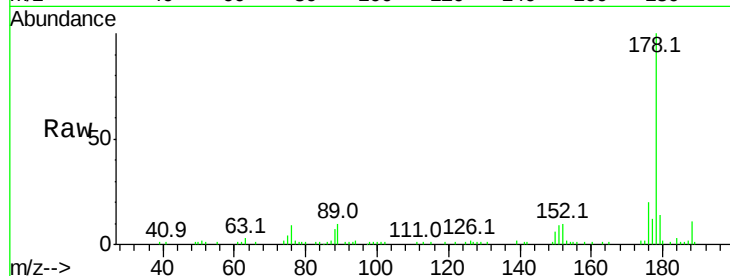




#71
 Anthracene
 Concen: 8.83 ng
 RT: 15.05 min Scan# 2229
 Delta R.T. -0.09 min
 Lab File: BF095414.D
 Acq: 25 May 2017 8:17

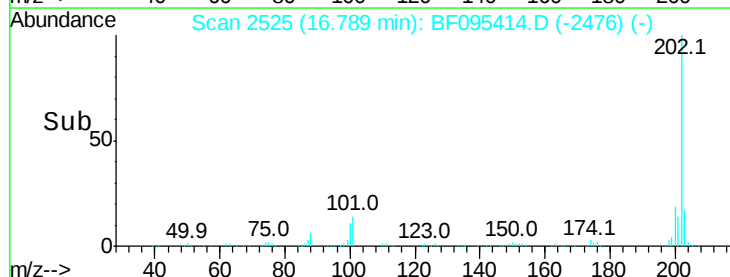
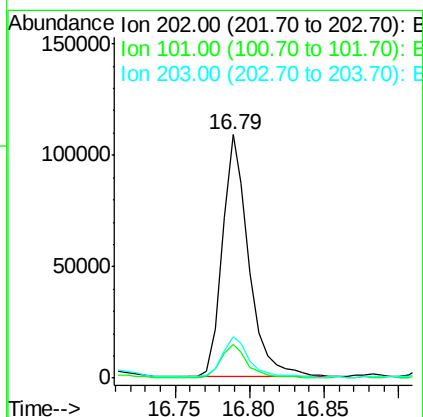
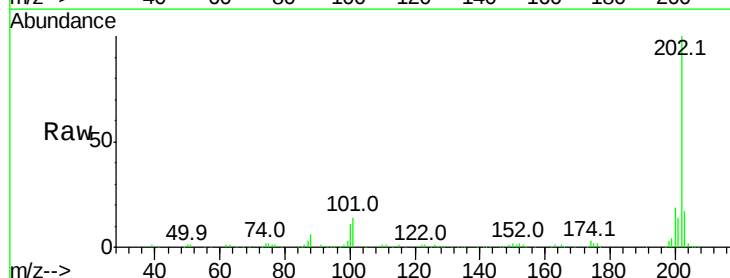
Instrument :
 BNA_F
 ClientSampleId :

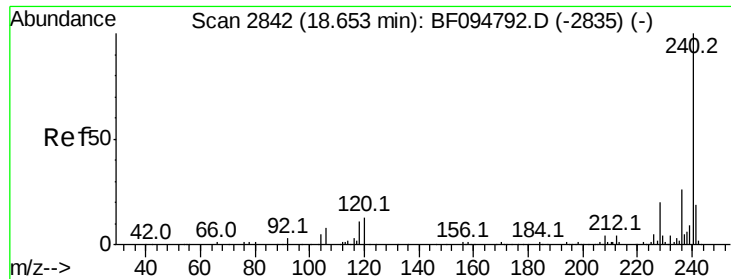
Tot Ion:178 Resp: 99722
 Ion Ratio Lower Upper
 178 100
 176 20.1 15.8 23.8
 179 14.4 12.7 19.1



#74
 Fluoranthene
 Concen: 11.89 ng
 RT: 16.79 min Scan# 2525
 Delta R.T. -0.01 min
 Lab File: BF095414.D
 Acq: 25 May 2017 8:17

Tgt Ion:202 Resp: 134821
 Ion Ratio Lower Upper
 202 100
 101 13.6 0.0 33.2
 203 17.2 0.0 38.1

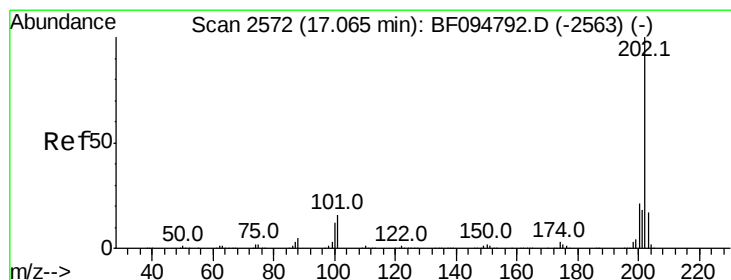
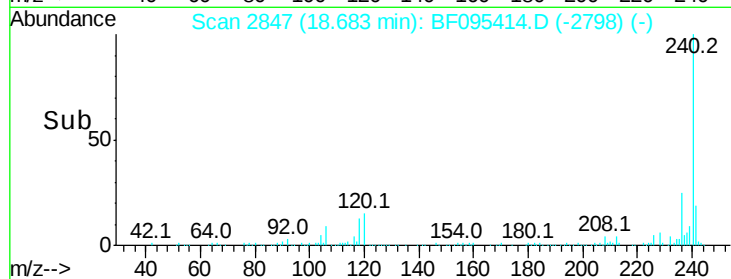
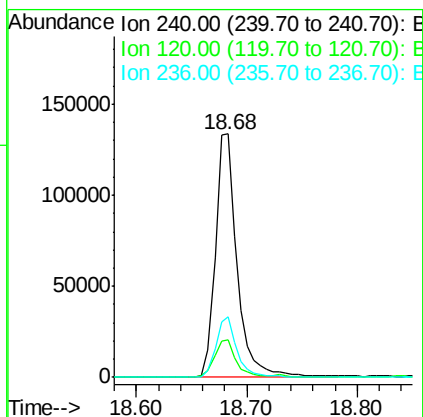
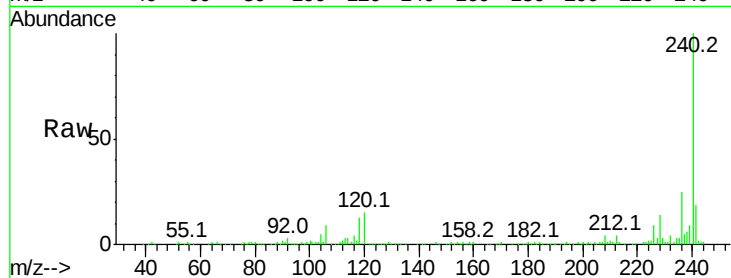




#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.68 min Scan# 2847
 Delta R.T. -0.01 min
 Lab File: BF095414.D
 Acq: 25 May 2017 8:17

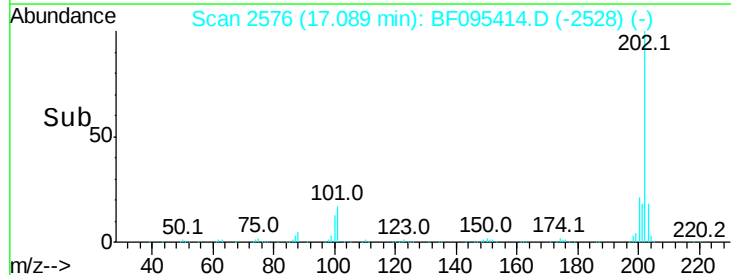
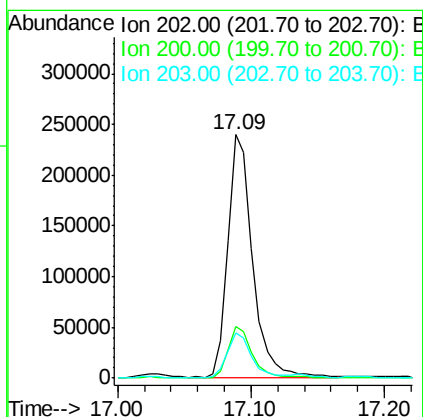
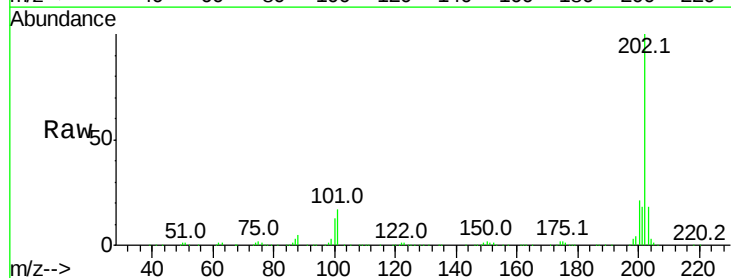
Instrument :
 BNA_F
 ClientSampleId :

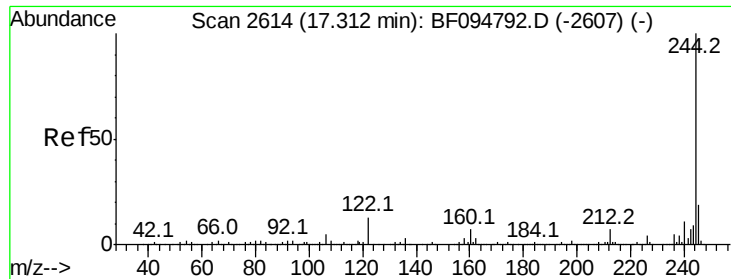
Tot Ion:240 Resp: 182262
 Ion Ratio Lower Upper
 240 100
 120 15.2 5.8 8.8#
 236 24.9 20.5 30.7



#77
 Pyrene
 Concen: 22.76 ng
 RT: 17.09 min Scan# 2576
 Delta R.T. -0.02 min
 Lab File: BF095414.D
 Acq: 25 May 2017 8:17

Tgt Ion:202 Resp: 310243
 Ion Ratio Lower Upper
 202 100
 200 21.3 17.6 26.4
 203 18.4 14.4 21.6





#78

Terphenyl-d14

Concen: 4.25 ng

RT: 17.32 min Scan# 2616

Delta R.T. -0.02 min

Lab File: BF095414.D

Acq: 25 May 2017 8:17

Instrument :

BNA_F

ClientSampleId :

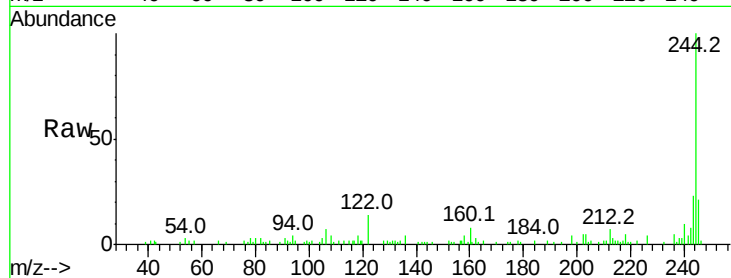
Tot Ion:244 Resp: 35164

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

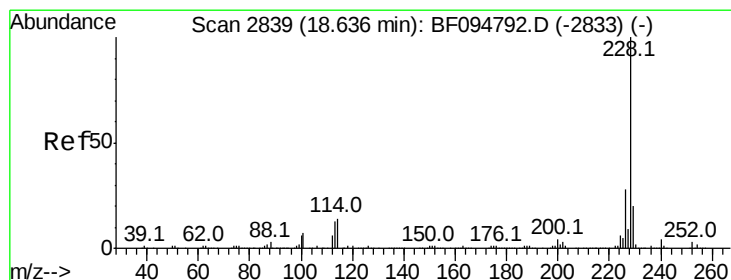
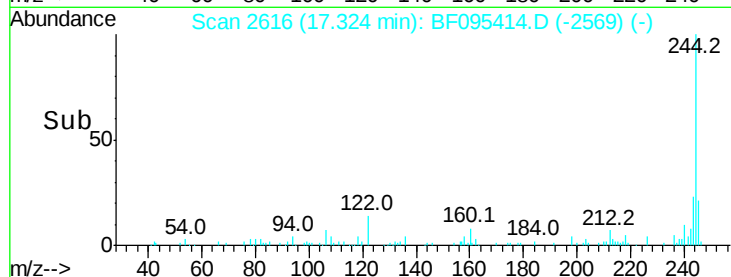
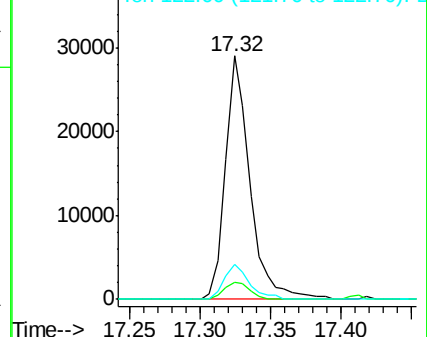
122 14.5 10.3 15.5



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: 8.25 ng

RT: 18.71 min Scan# 2852

Delta R.T. 0.03 min

Lab File: BF095414.D

Acq: 25 May 2017 8:17

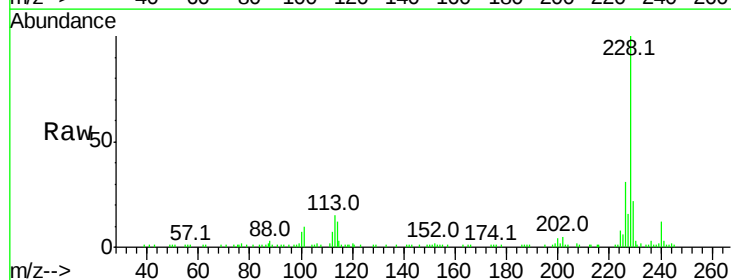
Tgt Ion:228 Resp: 87488

Ion Ratio Lower Upper

228 100

226 30.8 22.6 33.8

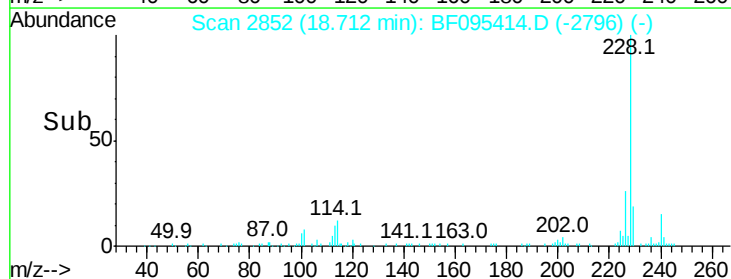
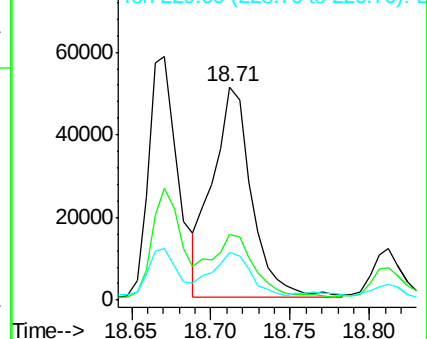
229 22.2 16.3 24.5

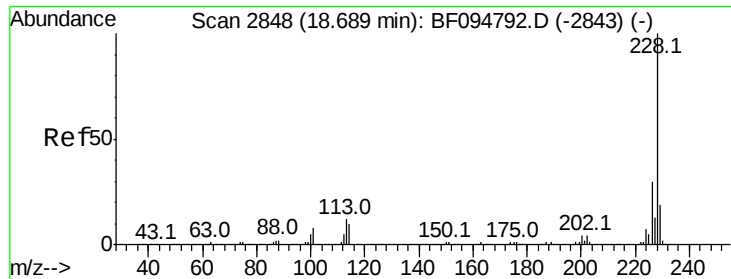


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

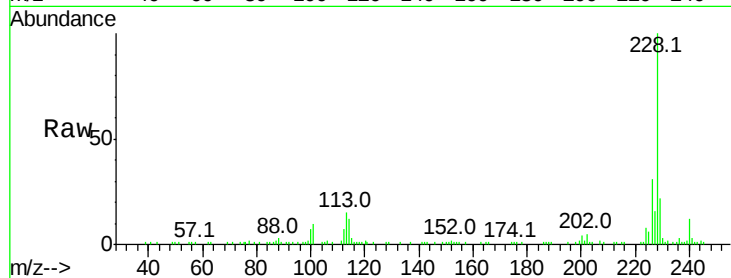




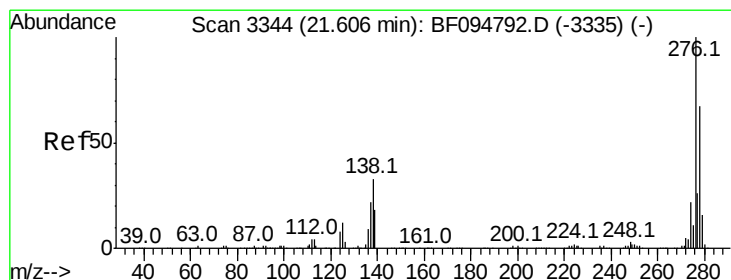
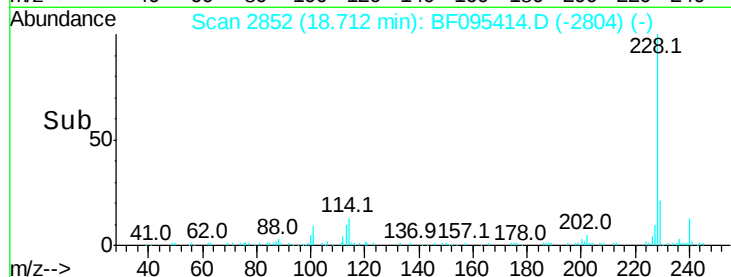
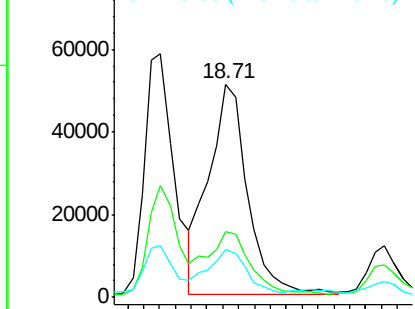
#82
Chrysene
Concen: 8.53 ng
RT: 18.71 min Scan# 2852
Delta R.T. -0.02 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.9	37.3
229	22.2	15.8	23.6

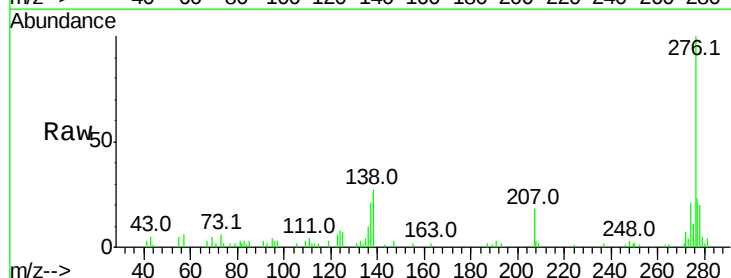


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

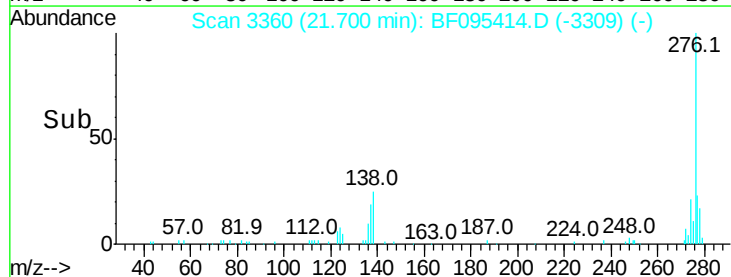
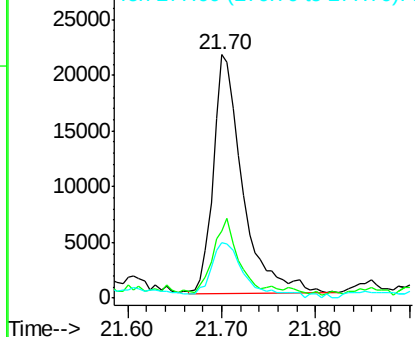


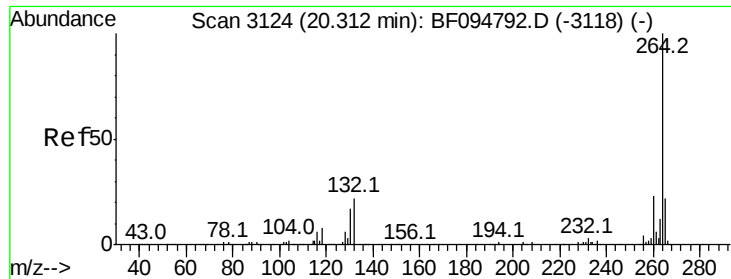
#85
Indeno(1,2,3-cd)pyrene
Concen: 5.62 ng
RT: 21.70 min Scan# 3360
Delta R.T. -0.00 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.2	27.8	41.6#
277	27.2	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

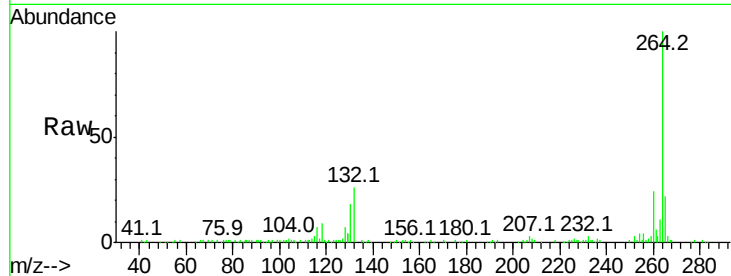




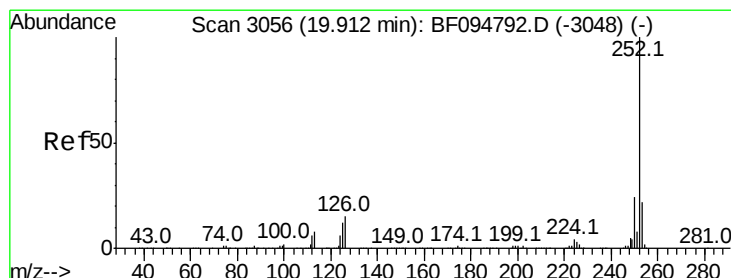
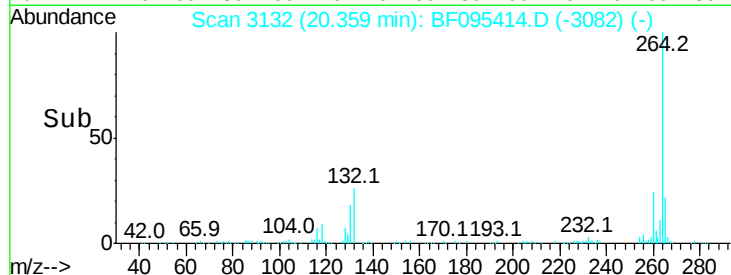
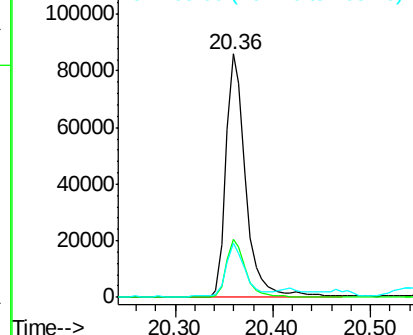
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.36 min Scan# 3132
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Instrument :
BNA_F
ClientSampled :

Tot Ion:264 Resp: 121711
Ion Ratio Lower Upper
264 100
260 23.7 19.5 29.3
265 22.2 17.2 25.8

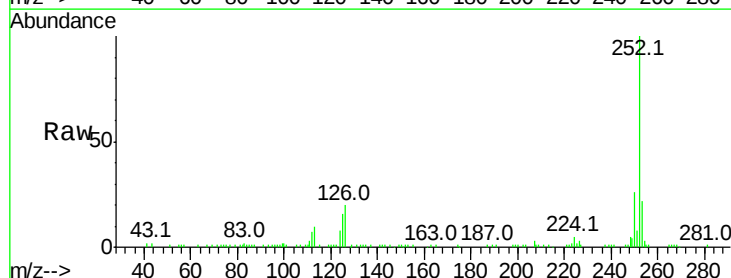


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

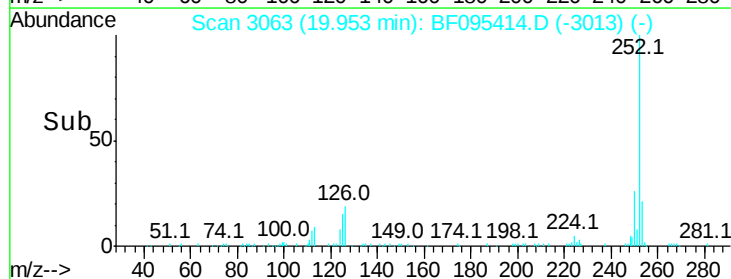
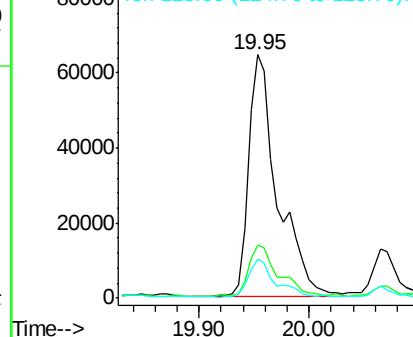


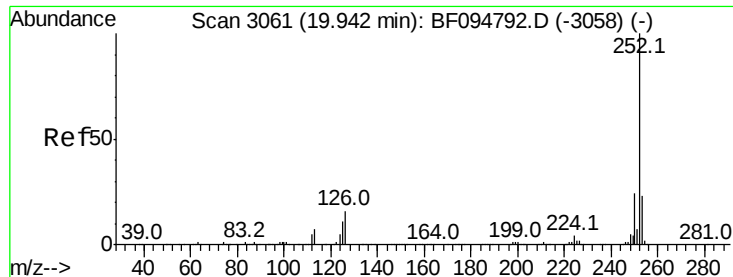
#87
Benzo(b)fluoranthene
Concen: 15.82 ng
RT: 19.95 min Scan# 3063
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:252 Resp: 118960
Ion Ratio Lower Upper
252 100
253 21.6 18.1 27.1
125 15.7 9.8 14.8#



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

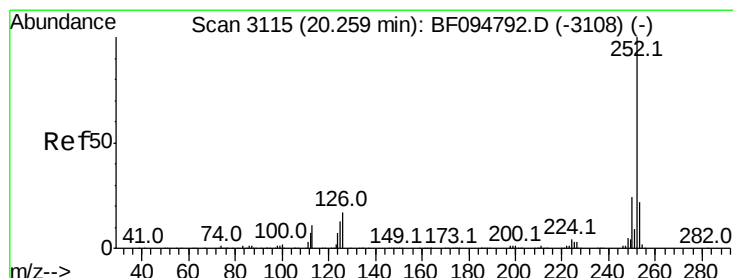
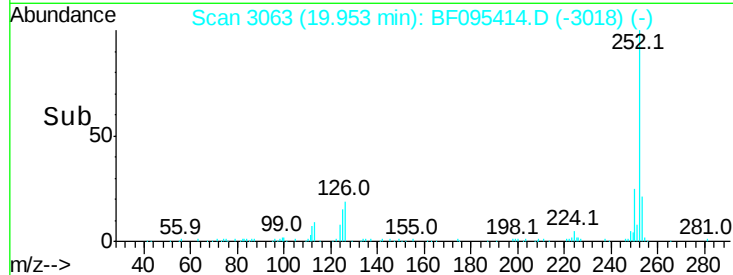
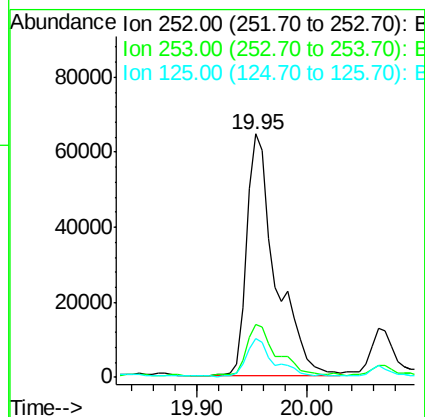
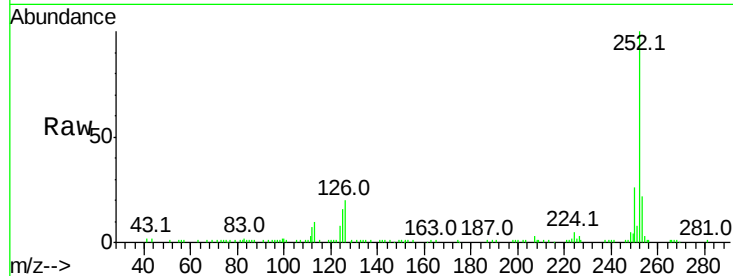




#88
Benzo(k)fluoranthene
Concen: 16.40 ng
RT: 19.95 min Scan# 3063
Delta R.T. -0.04 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

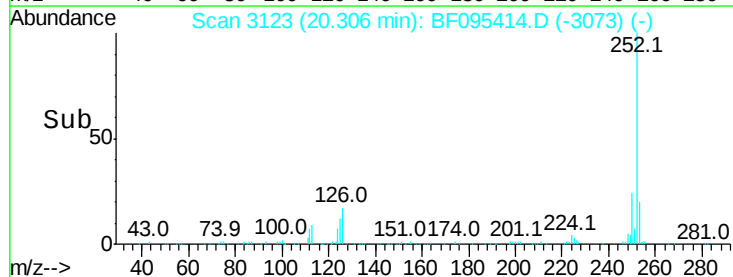
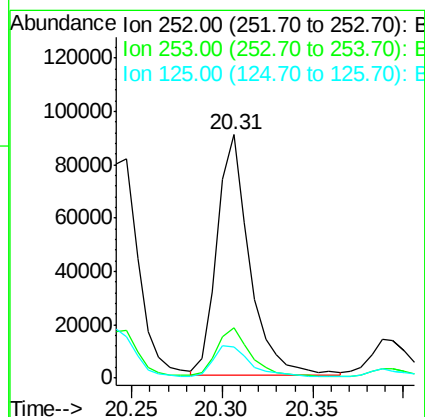
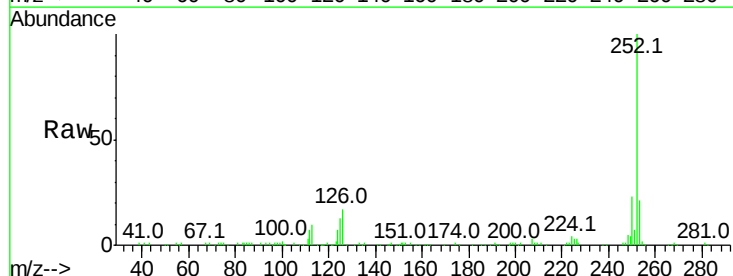
Instrument :
BNA_F
ClientSampleId :

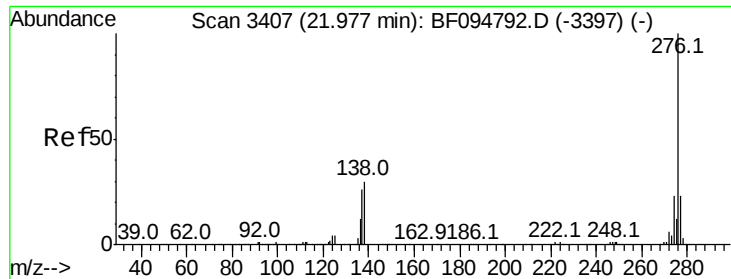
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.4	27.6
125	15.7	13.1	19.7



#89
Benzo(a)pyrene
Concen: 16.33 ng
RT: 20.31 min Scan# 3123
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.5	17.5	26.3
125	12.5	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 13.15 ng

RT: 22.09 min Scan# 3426

Delta R.T. 0.01 min

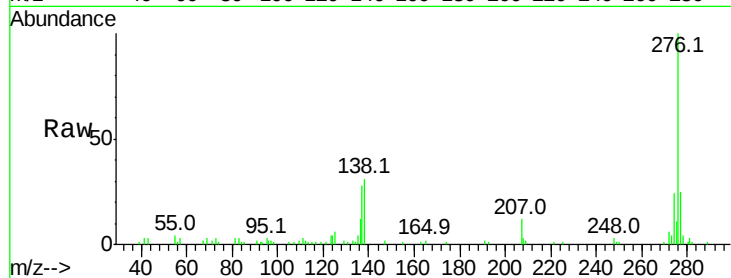
Lab File: BF095414.D

Acq: 25 May 2017 8:17

Instrument :

BNA_F

ClientSampleId :



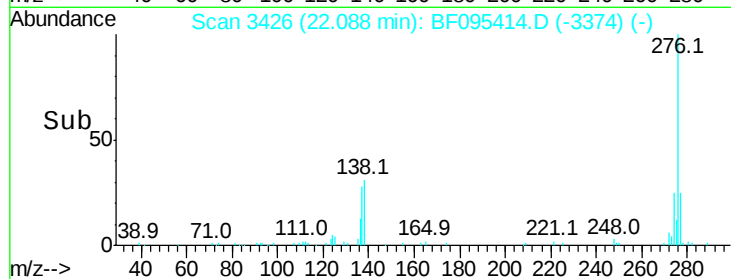
Tot Ion: 276 Resp: 73972

Ion Ratio Lower Upper

276 100

277 24.8 18.6 28.0

138 31.3 25.4 38.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

