

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052417\
 Data File : BF095420.D
 Acq On : 25 May 2017 11:29
 Operator : SJ/MA
 Sample : I3241-16DL 10X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 25 13:28:50 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

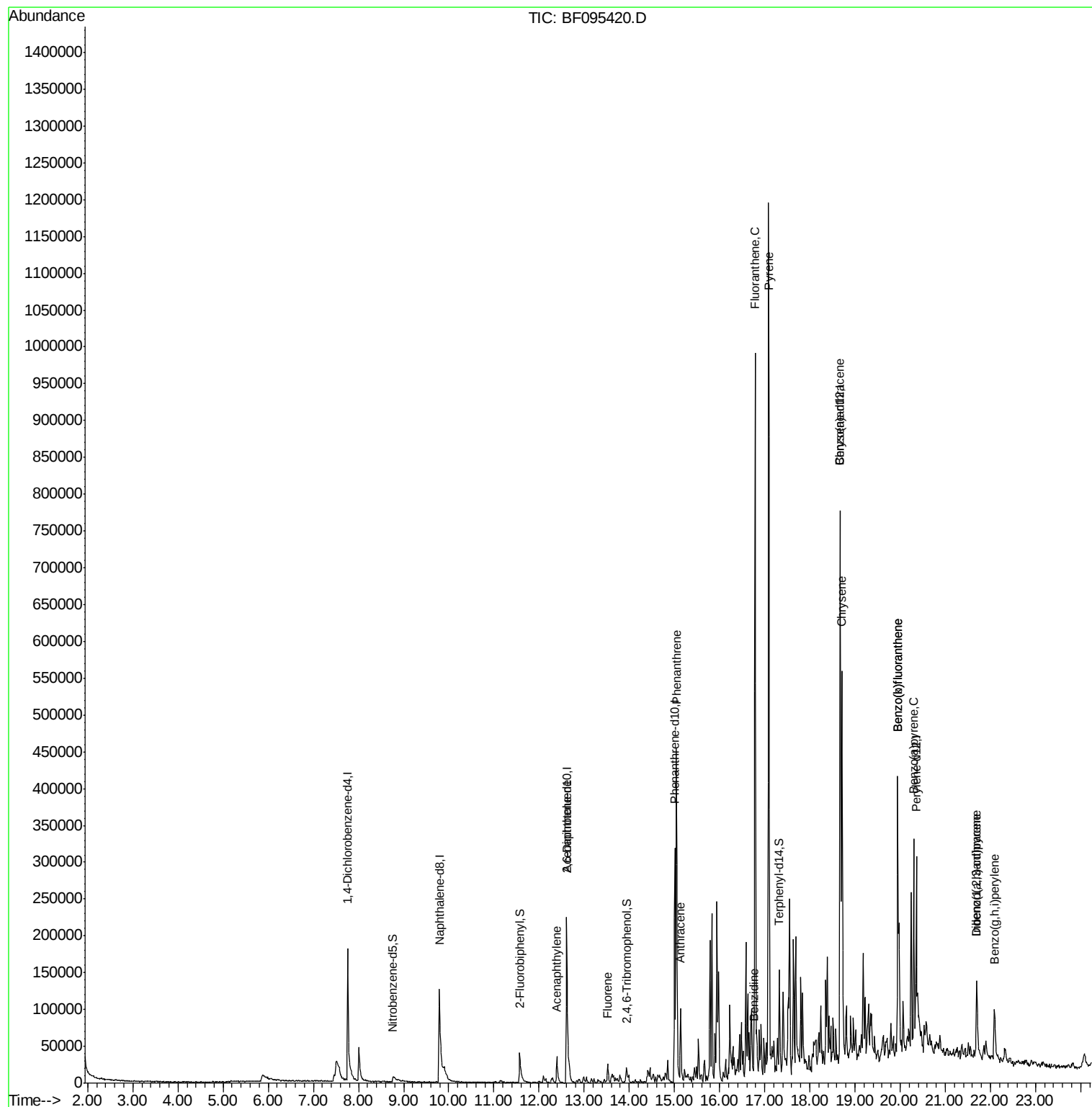
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.76	152	63719	20.00	ng	0.00
21) Naphthalene-d8	9.79	136	186142	20.00	ng	0.00
38) Acenaphthene-d10	12.61	164	100460	20.00	ng	0.00
63) Phenanthrene-d10	15.01	188	173400	20.00	ng	-0.02
75) Chrysene-d12	18.68	240	157500	20.00	ng	-0.02
86) Perylene-d12	20.36	264	117380	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.87	112	5638	1.48	ng	0.13
7) Phenol-d6	7.46	99	5363	1.17	ng	0.15
23) Nitrobenzene-d5	8.77	82	14492	4.91	ng	0.09
41) 2,4,6-Tribromophenol	13.94	330	7039	8.56	ng	0.02
44) 2-Fluorobiphenyl	11.57	172	50175	7.19	ng	0.01
78) Terphenyl-d14	17.32	244	45301	6.34	ng	-0.02
Target Compounds						Qvalue
48) Acenaphthylene	12.39	152	38332	3.58	ng	97
50) 2,6-Dinitrotoluene	12.61	165	10024	5.96	ng	# 31
57) Fluorene	13.52	166	17621	2.29	ng	99
70) Phenanthrene	15.05	178	294265	29.54	ng	98
71) Anthracene	15.14	178	70296	6.91	ng	95
74) Fluoranthene	16.79	202	542024	53.04	ng	98
76) Benzydine	16.75	184	116	6.61	ng	# 62
77) Pyrene	17.09	202	559772	47.52	ng	97
80) Benzo(a)anthracene	18.67	228	277113	30.23	ng	99
82) Chrysene	18.71	228	277692	31.33	ng	98
85) Indeno(1,2,3-cd)pyrene	21.70	276	69770	9.69	ng	92
87) Benzo(b)fluoranthene	19.95	252	285935	39.42	ng	# 97
88) Benzo(k)fluoranthene	19.95	252	285935	40.87	ng	98
89) Benzo(a)pyrene	20.30	252	138553	20.70	ng	97
90) Dibenzo(a,h)anthracene	21.69	278	18926	3.42	ng	93
91) Benzo(g,h,i)perylene	22.09	276	62816	11.58	ng	97

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

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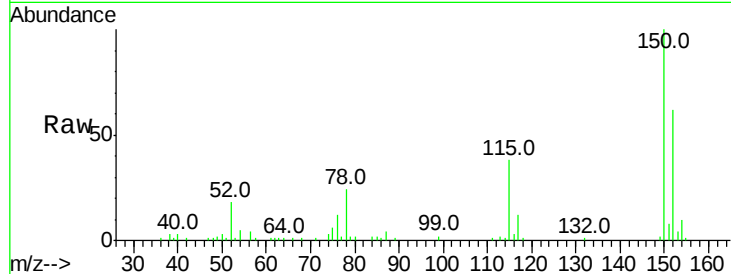


#1

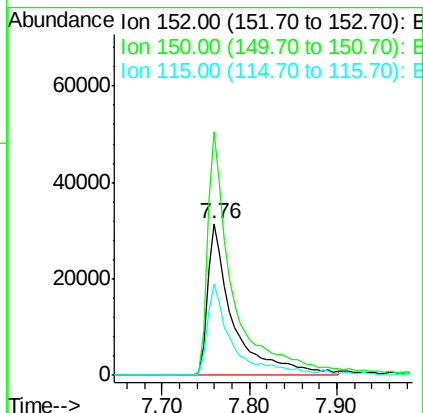
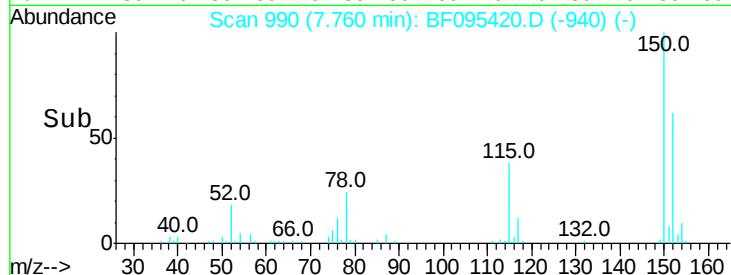
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.76 min Scan# 990
Delta R.T. -0.01 min
Lab File: BF095420.D
Acq: 25 May 2017 11:29

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 63719
Ion Ratio Lower Upper
152 100
150 160.2 126.2 189.2
115 60.3 52.2 78.2



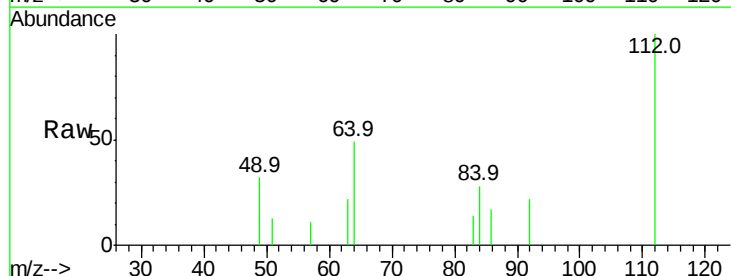
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



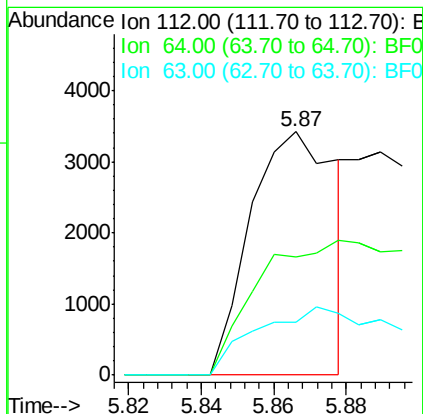
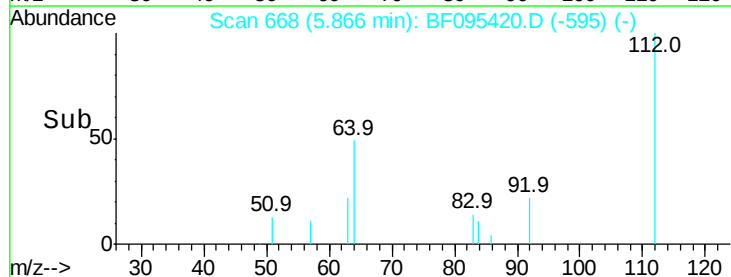
#5

2-Fluorophenol
Concen: 1.48 ng
RT: 5.87 min Scan# 668
Delta R.T. 0.13 min
Lab File: BF095420.D
Acq: 25 May 2017 11:29

Tgt Ion:112 Resp: 5638
Ion Ratio Lower Upper
112 100
64 48.6 46.0 69.0
63 21.9 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: 1.17 ng

RT: 7.46 min Scan# 939

Delta R.T. 0.15 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

Instrument :

BNA_F

ClientSampled :

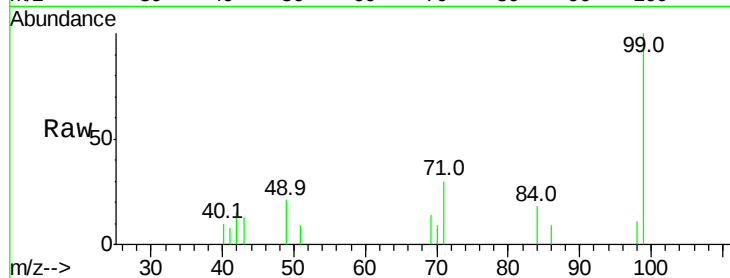
Tot Ion: 99 Resp: 5363

Ion Ratio Lower Upper

99 100

42 14.8 13.5 20.3

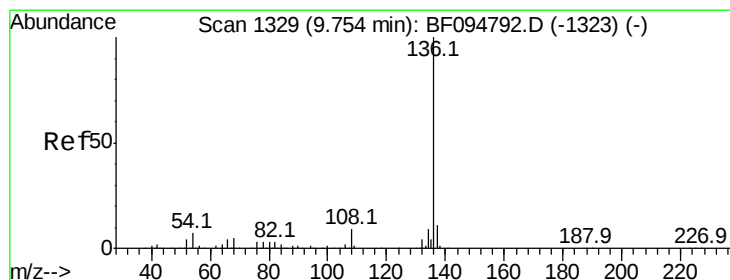
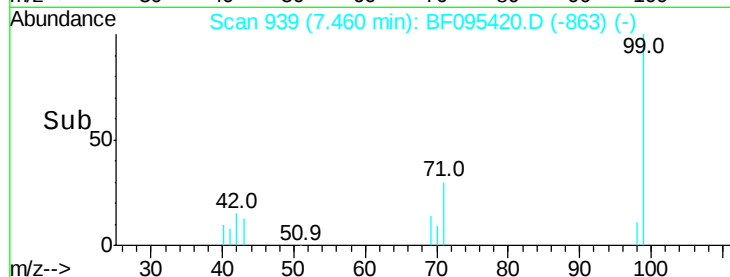
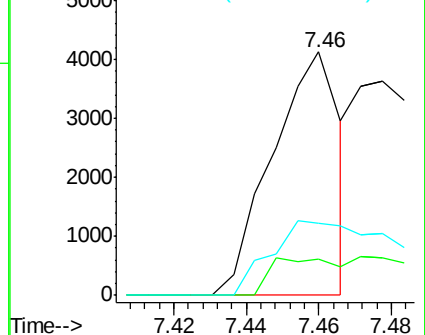
71 29.9 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.79 min Scan# 1335

Delta R.T. 0.01 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

Tgt Ion: 136 Resp: 186142

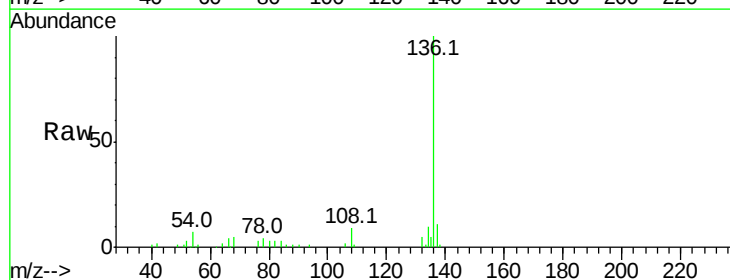
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 7.3 4.9 7.3#

68 5.0 4.1 6.1

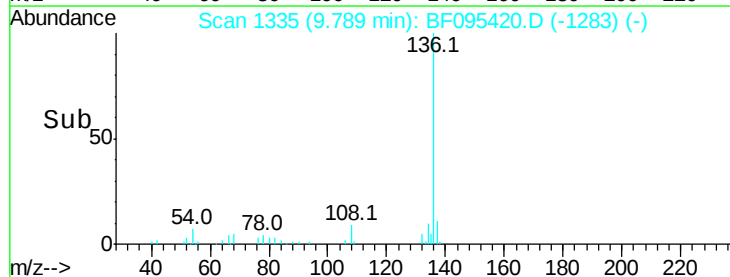
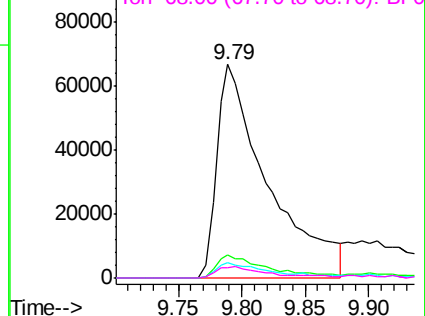


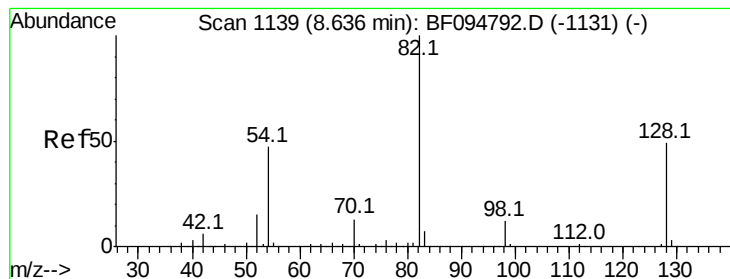
Abundance Ion 136.00 (135.70 to 136.70): E

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: 4.91 ng

RT: 8.77 min Scan# 1161

Delta R.T. 0.09 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

Instrument :

BNA_F

ClientSampleId :

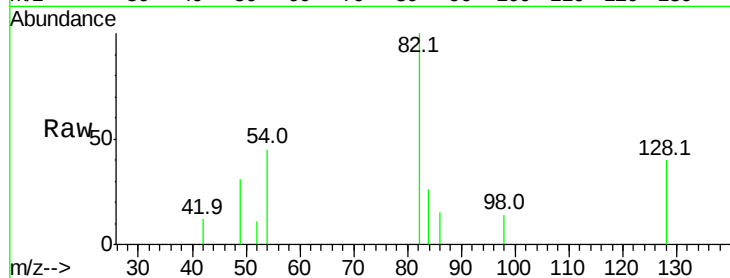
Tot Ion: 82 Resp: 14492

Ion Ratio Lower Upper

82 100

128 40.4 34.0 51.0

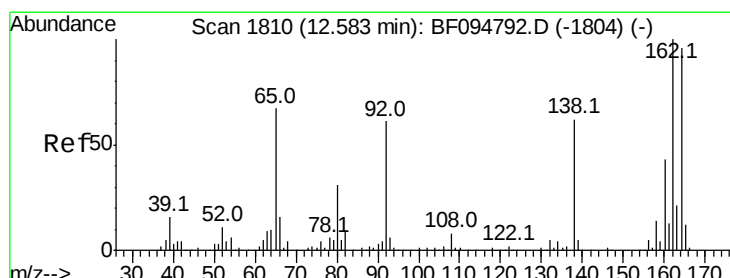
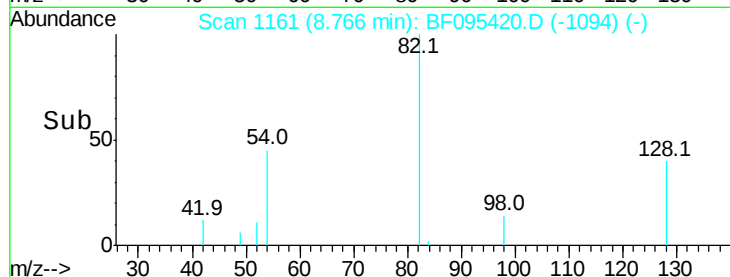
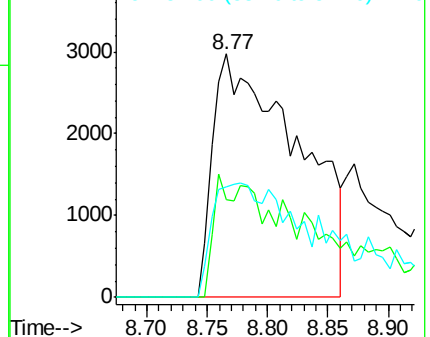
54 45.4 42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.61 min Scan# 1815

Delta R.T. -0.01 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

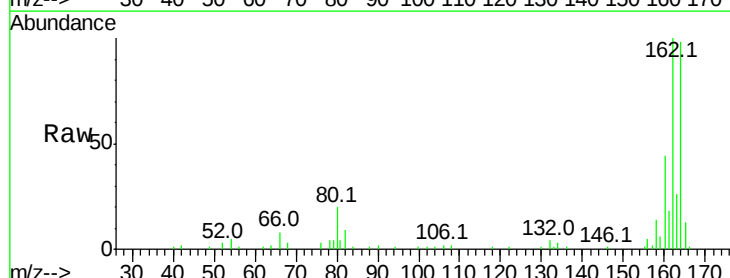
Tgt Ion:164 Resp: 100460

Ion Ratio Lower Upper

164 100

162 102.3 82.6 123.8

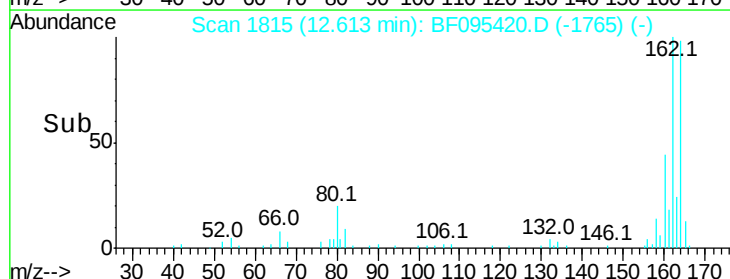
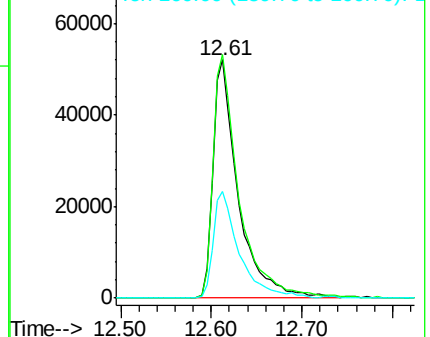
160 44.6 36.2 54.2



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

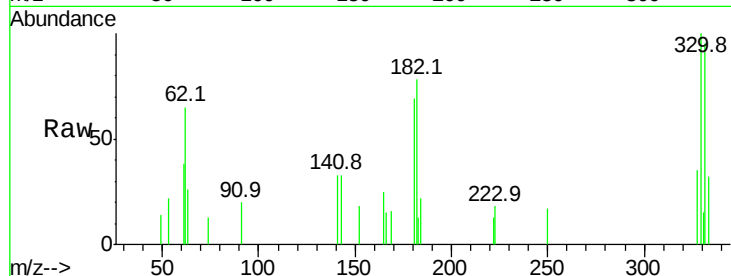




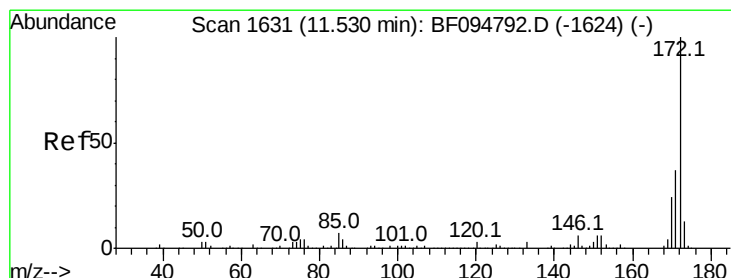
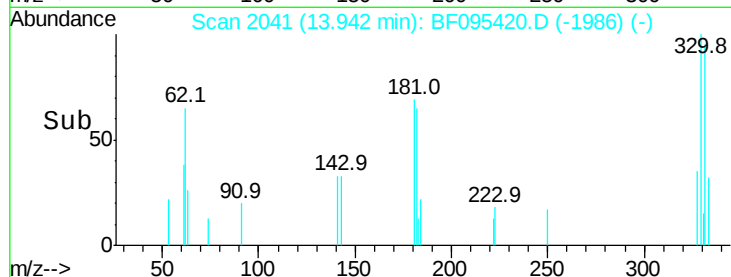
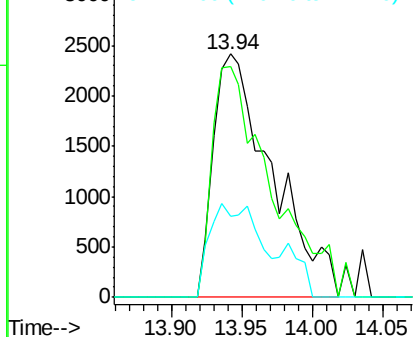
#41
 2,4,6-Tribromophenol
 Concen: 8.56 ng
 RT: 13.94 min Scan# 2041
 Delta R.T. 0.02 min
 Lab File: BF095420.D
 Acq: 25 May 2017 11:29

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 7039
 Ion Ratio Lower Upper
 330 100
 332 96.2 76.6 115.0
 141 31.3 31.4 47.2#

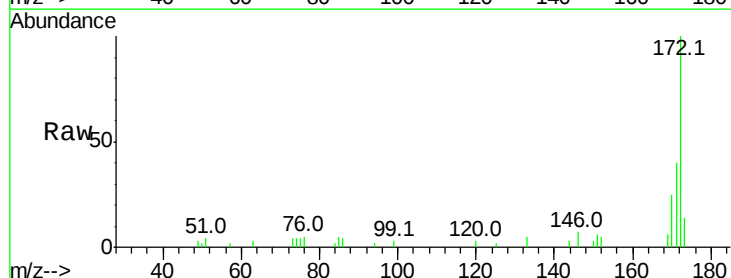


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

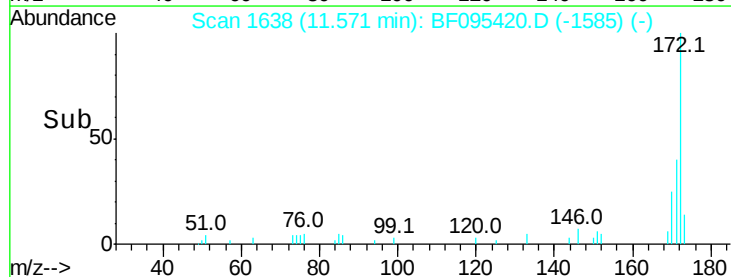
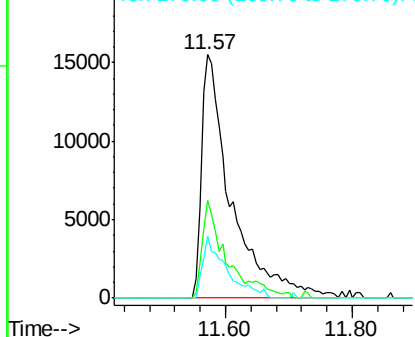


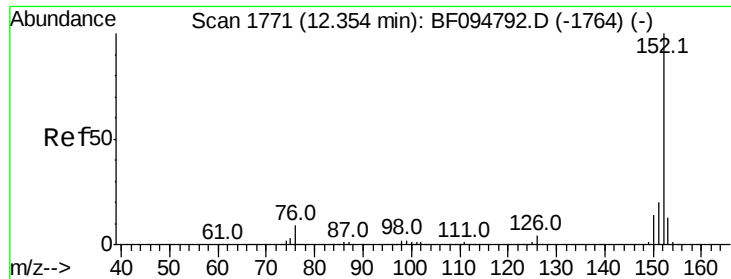
#44
 2-Fluorobiphenyl
 Concen: 7.19 ng
 RT: 11.57 min Scan# 1638
 Delta R.T. 0.01 min
 Lab File: BF095420.D
 Acq: 25 May 2017 11:29

Tgt Ion:172 Resp: 50175
 Ion Ratio Lower Upper
 172 100
 171 40.1 29.6 44.4
 170 25.5 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





#48

Acenaphthylene

Concen: 3.58 ng

RT: 12.39 min Scan# 1778

Delta R.T. 0.01 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

Instrument :

BNA_F

ClientSampled :

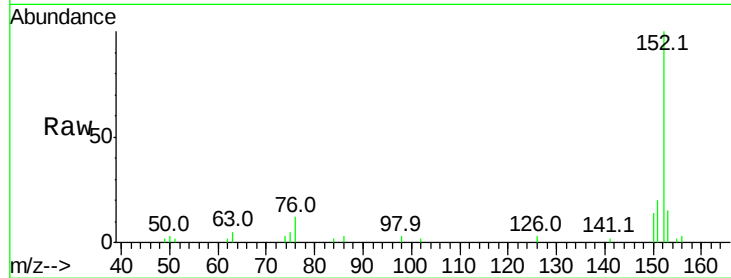
Tot Ion:152 Resp: 38332

Ion Ratio Lower Upper

152 100

151 19.9 16.8 25.2

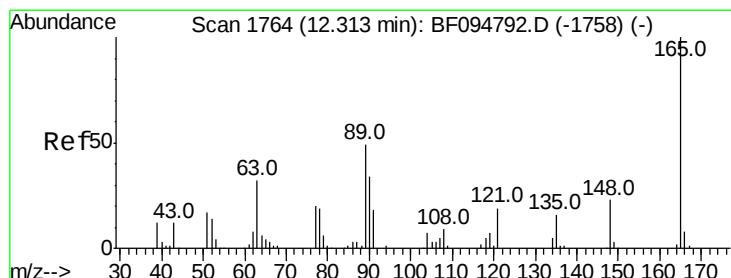
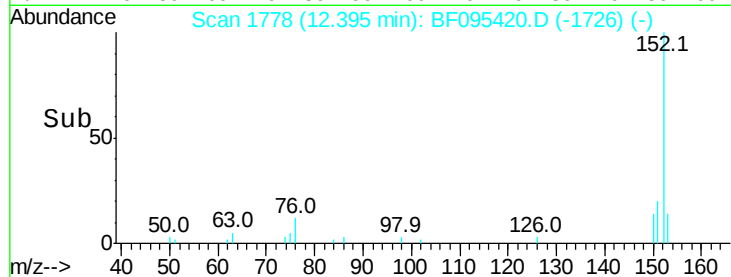
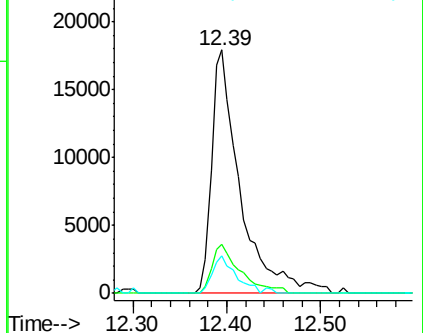
153 15.3 10.8 16.2



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: 5.96 ng

RT: 12.61 min Scan# 1815

Delta R.T. 0.25 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

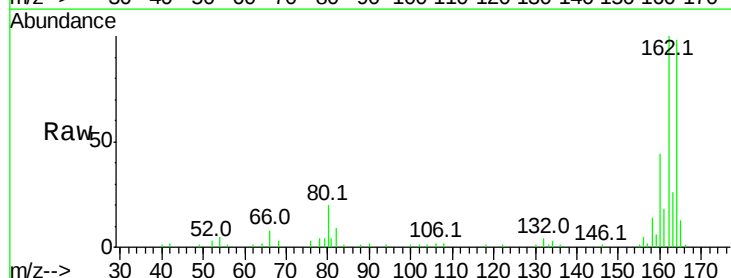
Tgt Ion:165 Resp: 10024

Ion Ratio Lower Upper

165 100

63 0.0 34.3 51.5#

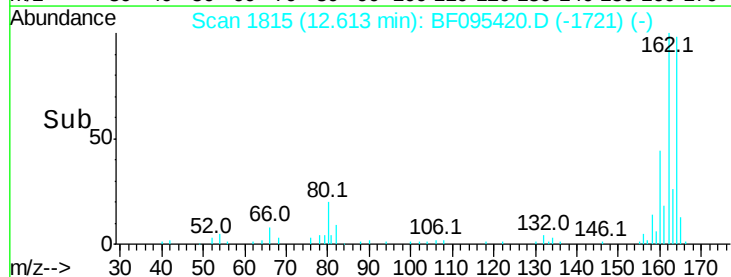
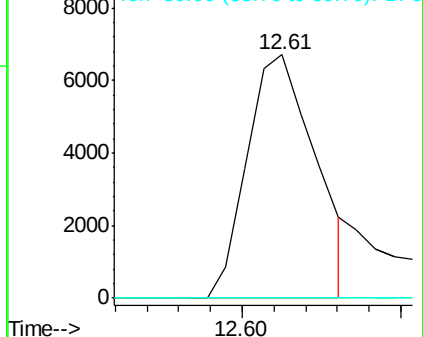
89 0.0 37.1 55.7#

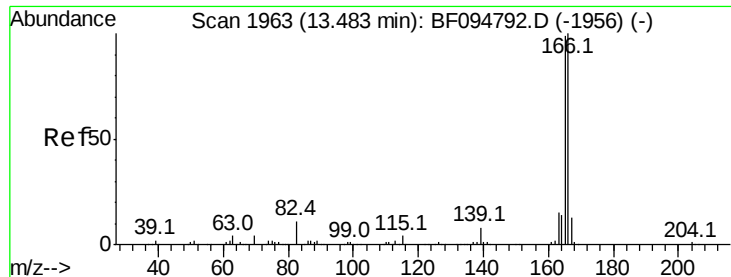


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

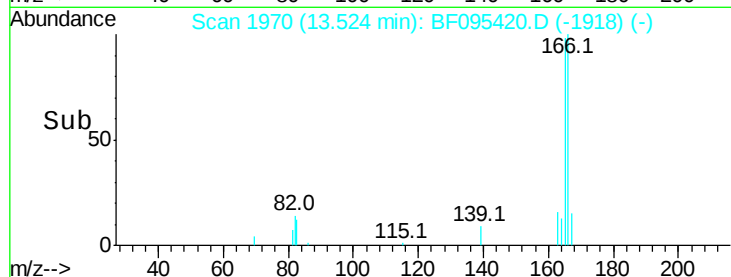
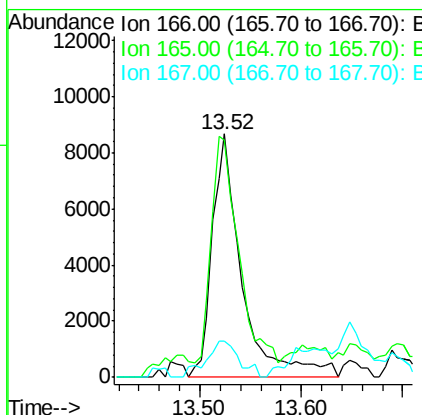
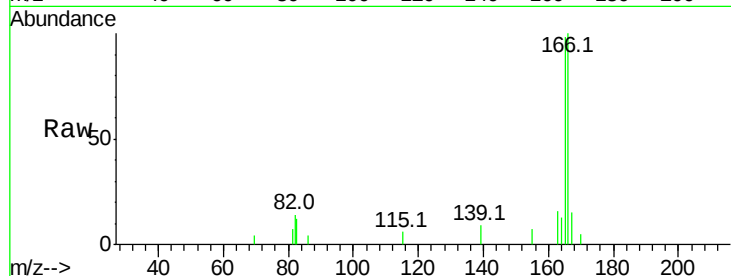




#57
Fluorene
 Concen: 2.29 ng
 RT: 13.52 min Scan# 1970
 Delta R.T. 0.01 min
 Lab File: BF095420.D
 Acq: 25 May 2017 11:29

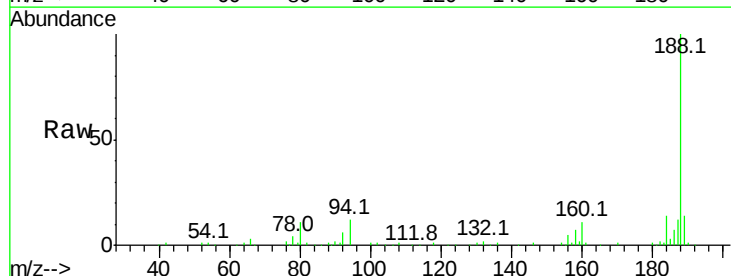
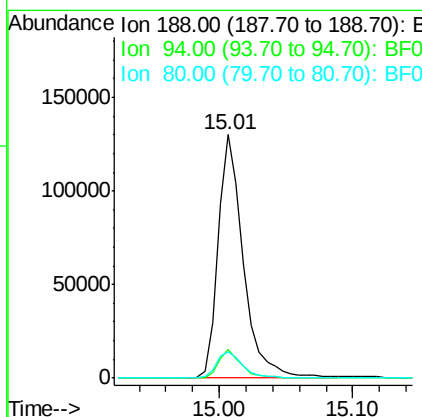
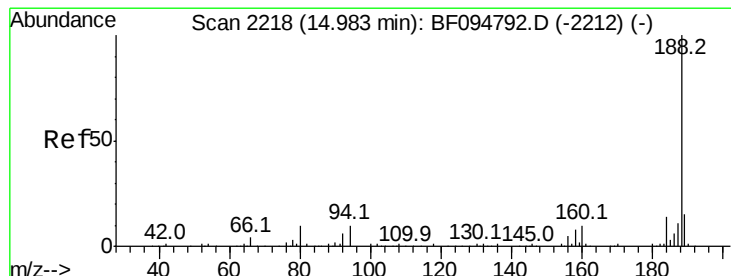
Instrument :
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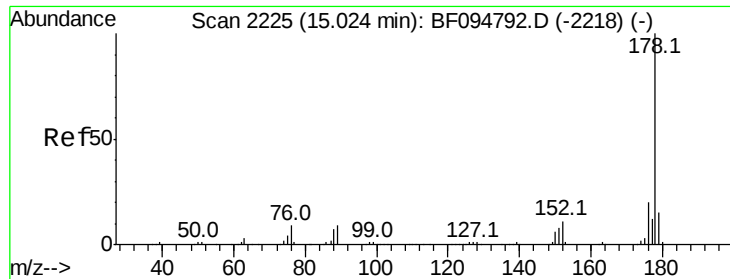
Tot Ion:166 Resp: 17621
 Ion Ratio Lower Upper
 166 100
 165 97.6 78.8 118.2
 167 14.7 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 15.01 min Scan# 2222
 Delta R.T. -0.02 min
 Lab File: BF095420.D
 Acq: 25 May 2017 11:29

Tgt Ion:188 Resp: 173400
 Ion Ratio Lower Upper
 188 100
 94 11.6 9.4 14.2
 80 10.8 10.2 15.2

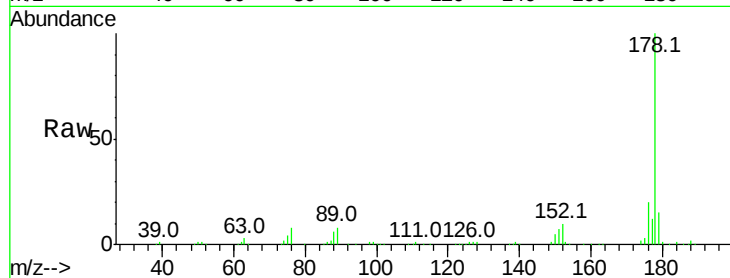




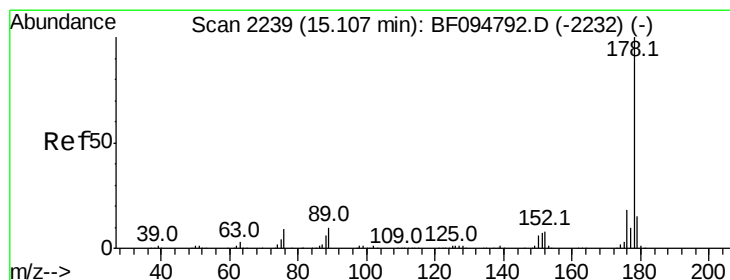
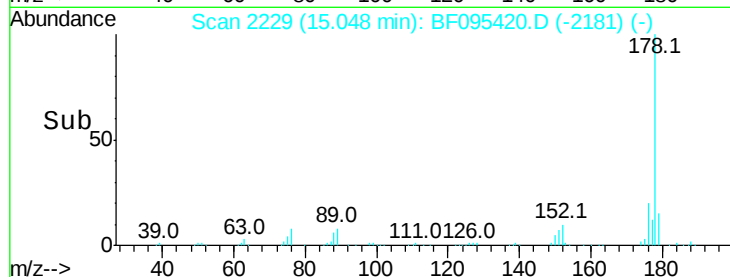
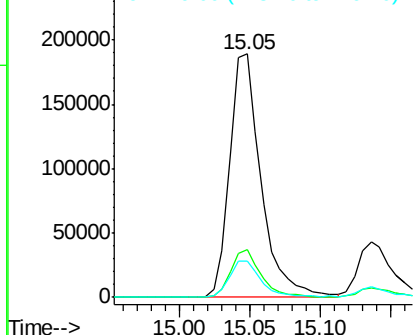
#70
Phenanthrene
Concen: 29.54 ng
RT: 15.05 min Scan# 2229
Delta R.T. -0.02 min
Lab File: BF095420.D
Acq: 25 May 2017 11:29

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 294265
Ion Ratio Lower Upper
178 100
176 19.7 16.2 24.4
179 14.9 12.6 19.0

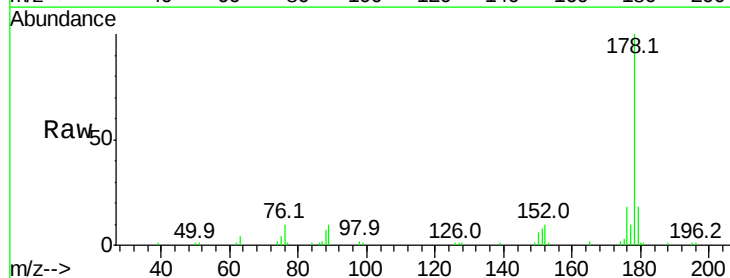


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

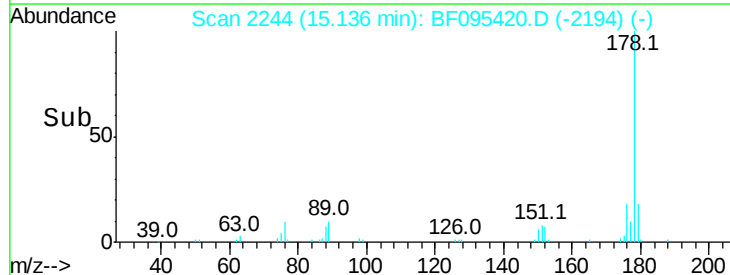
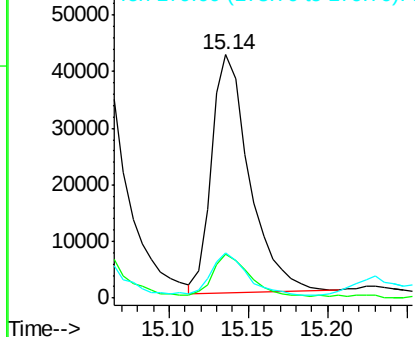


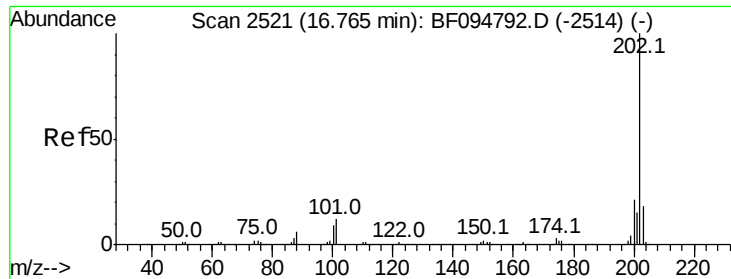
#71
Anthracene
Concen: 6.91 ng
RT: 15.14 min Scan# 2244
Delta R.T. -0.01 min
Lab File: BF095420.D
Acq: 25 May 2017 11:29

Tgt Ion:178 Resp: 70296
Ion Ratio Lower Upper
178 100
176 17.8 15.8 23.8
179 18.4 12.7 19.1



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





#74

Fluoranthene

Concen: 53.04 ng

RT: 16.79 min Scan# 2525

Delta R.T. -0.01 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

Instrument :

BNA_F

ClientSampled :

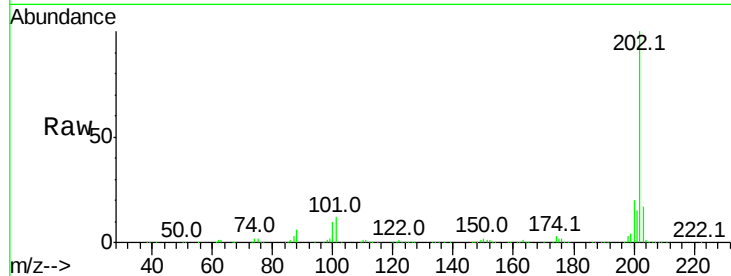
Tot Ion:202 Resp: 542024

Ion Ratio Lower Upper

202 100

101 12.4 0.0 33.2

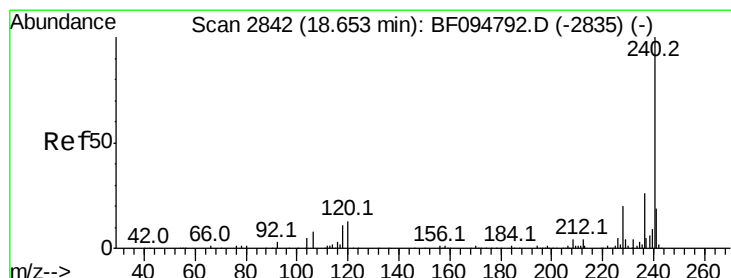
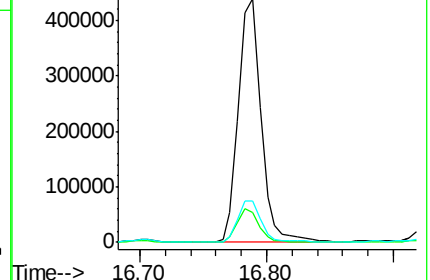
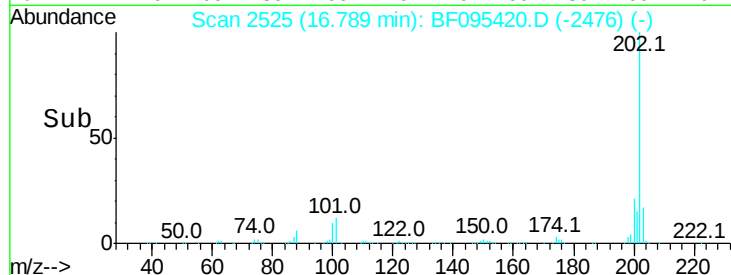
203 17.1 0.0 38.1



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: 18.68 min Scan# 2846

Delta R.T. -0.02 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

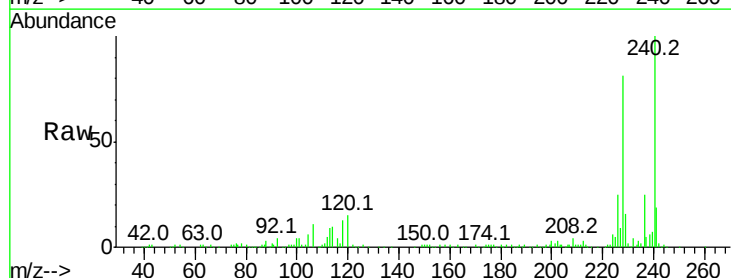
Tgt Ion:240 Resp: 157500

Ion Ratio Lower Upper

240 100

120 15.1 5.8 8.8#

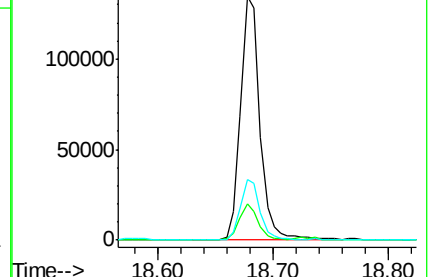
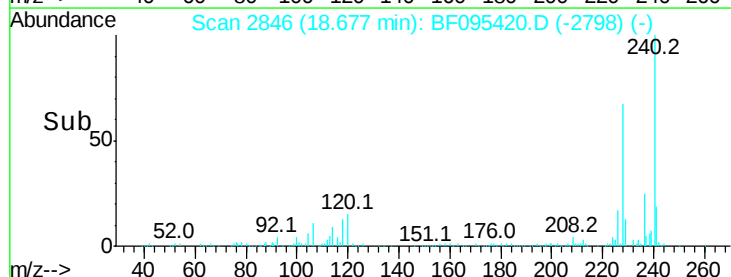
236 25.0 20.5 30.7

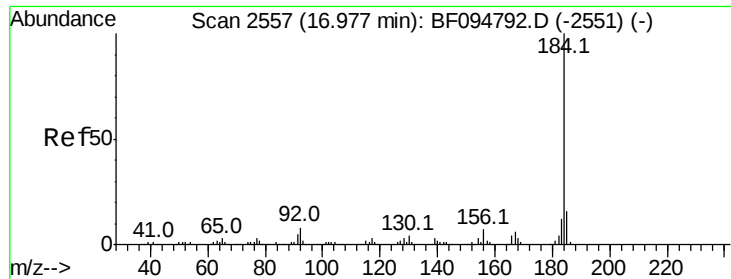


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 6.61 ng

RT: 16.75 min Scan# 2518

Delta R.T. -0.27 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

Instrument :

BNA_F

ClientSampleId :

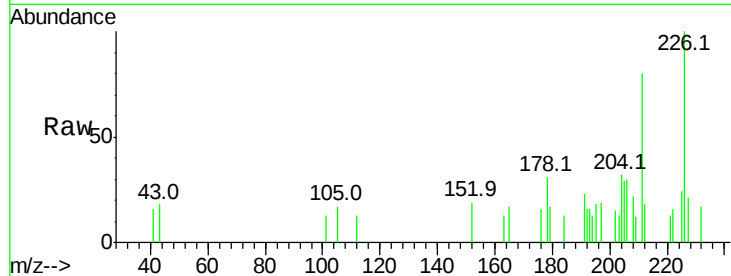
Tot Ion:184 Resp: 116

Ion Ratio Lower Upper

184 100

185 0.0 15.5 23.3#

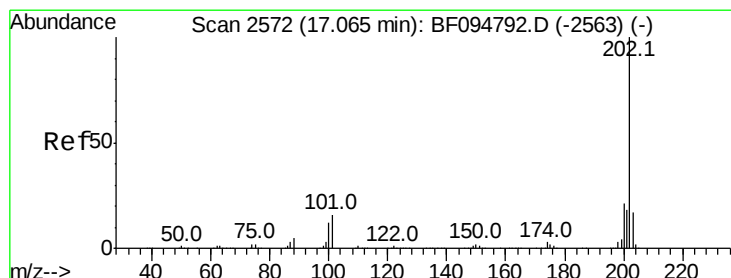
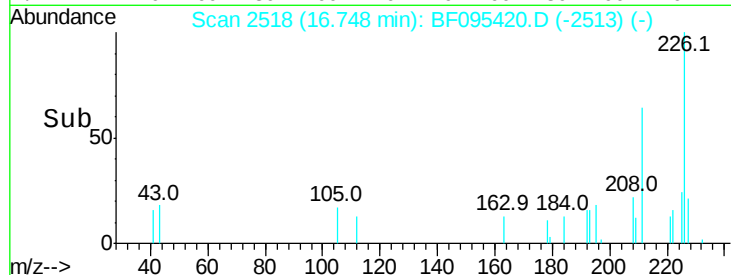
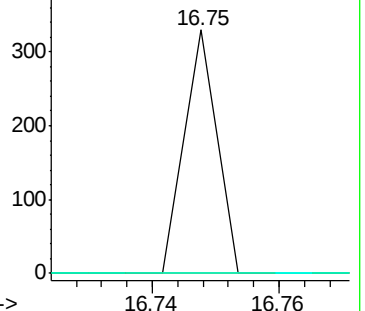
183 0.0 9.8 14.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 47.52 ng

RT: 17.09 min Scan# 2576

Delta R.T. -0.02 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

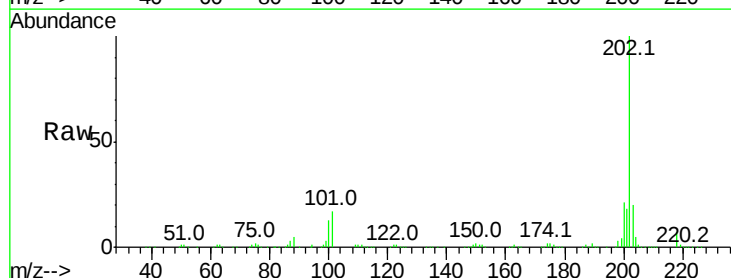
Tgt Ion:202 Resp: 559772

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

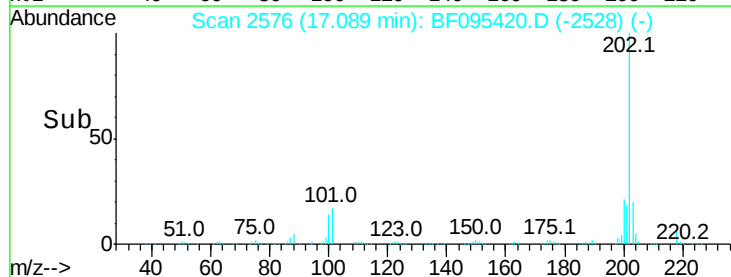
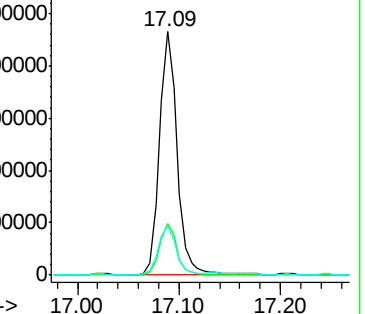
203 20.2 14.4 21.6

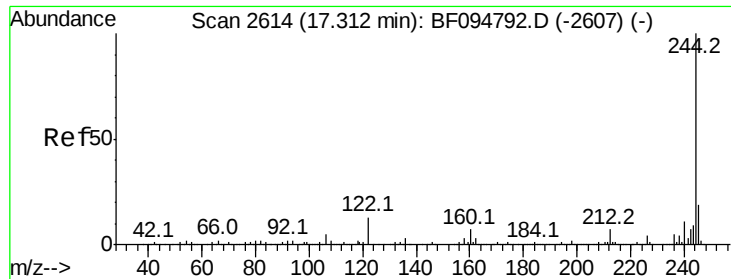


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 6.34 ng

RT: 17.32 min Scan# 2616

Delta R.T. -0.02 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

Instrument :

BNA_F

ClientSampled :

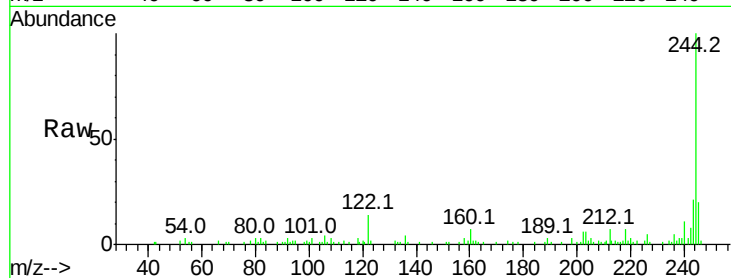
Tot Ion:244 Resp: 45301

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

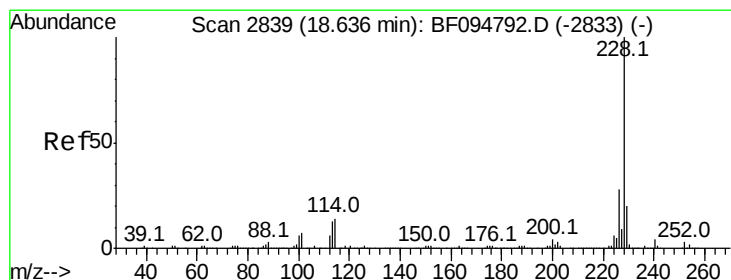
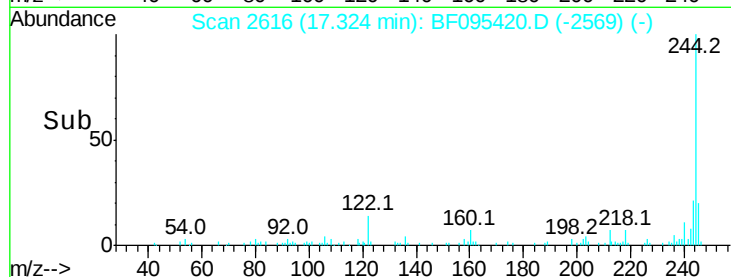
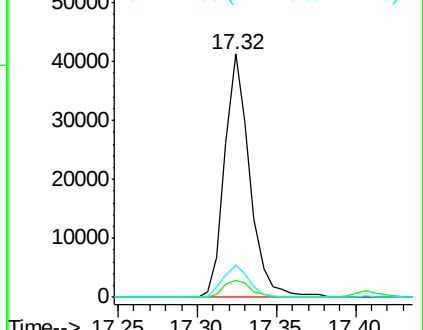
122 13.5 10.3 15.5



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: 30.23 ng

RT: 18.67 min Scan# 2844

Delta R.T. -0.02 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

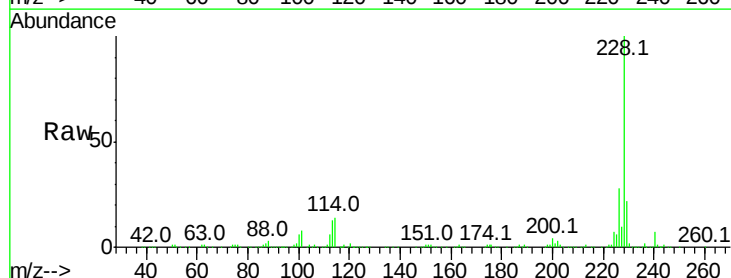
Tgt Ion:228 Resp: 277113

Ion Ratio Lower Upper

228 100

226 28.1 22.6 33.8

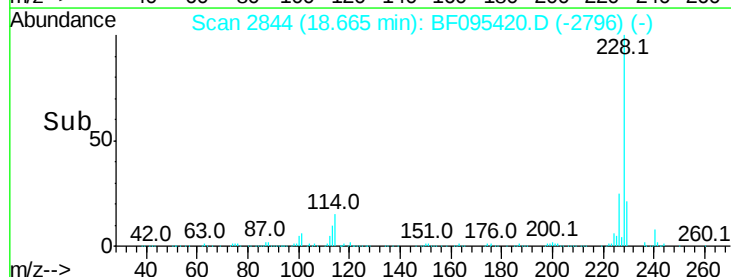
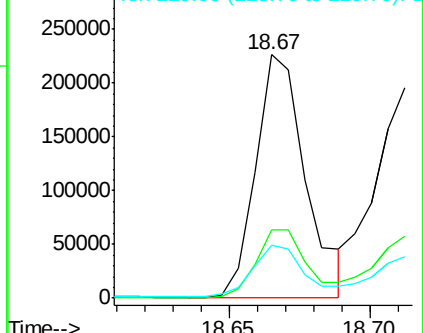
229 21.6 16.3 24.5

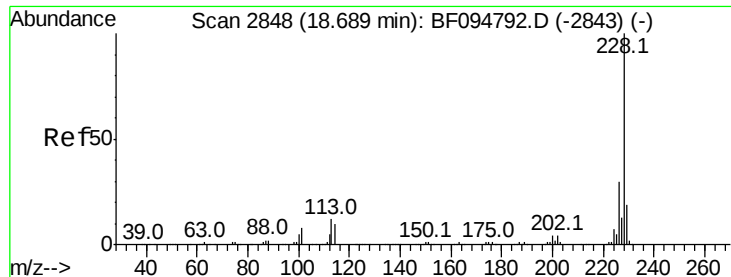


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 31.33 ng

RT: 18.71 min Scan# 2852

Delta R.T. -0.02 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

Instrument :

BNA_F

ClientSampleId :

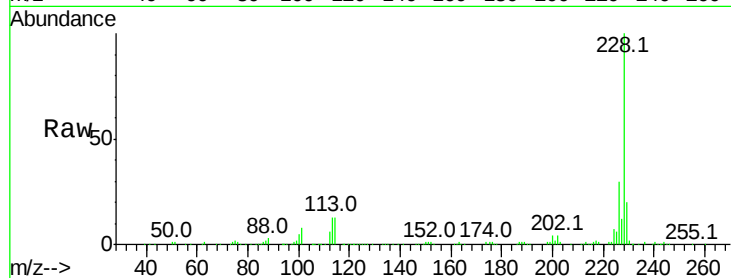
Tot Ion:228 Resp: 277692

Ion Ratio Lower Upper

228 100

226 29.7 24.9 37.3

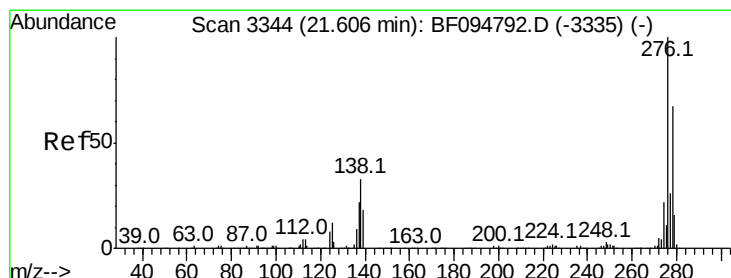
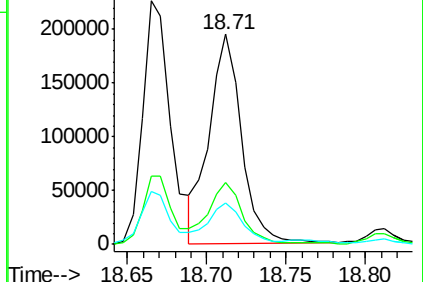
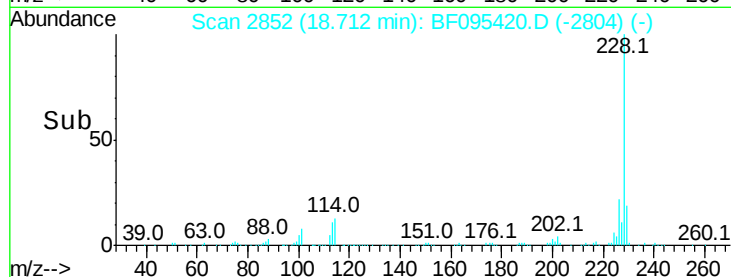
229 19.8 15.8 23.6



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: 9.69 ng

RT: 21.70 min Scan# 3360

Delta R.T. 0.00 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

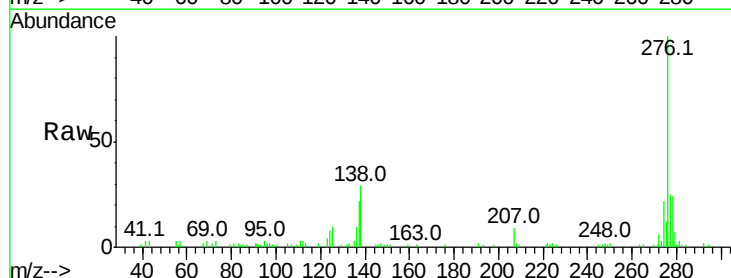
Tgt Ion:276 Resp: 69770

Ion Ratio Lower Upper

276 100

138 28.7 27.8 41.6

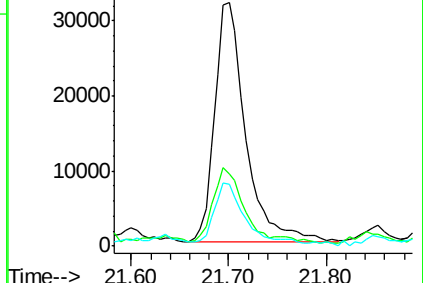
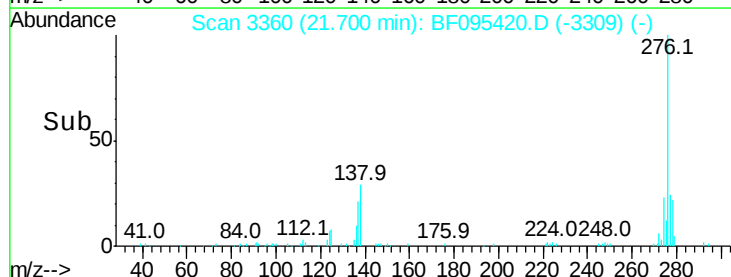
277 23.2 20.2 30.4

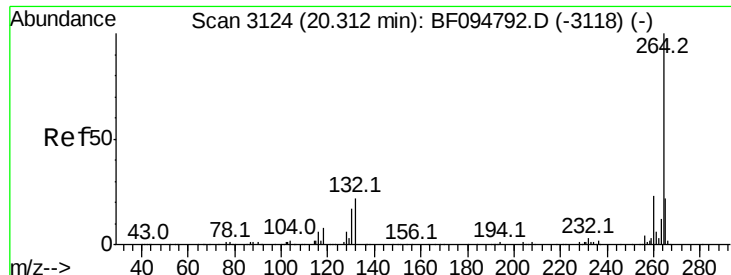


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



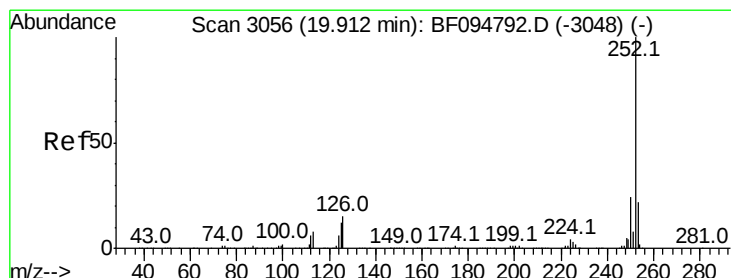
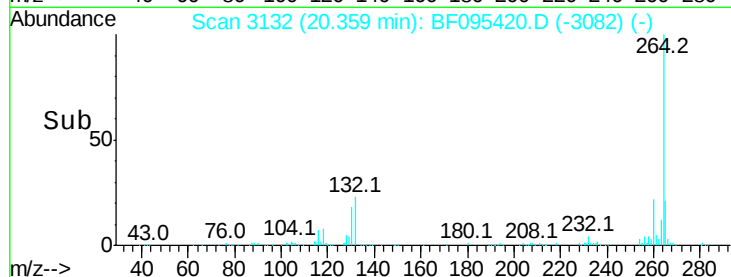
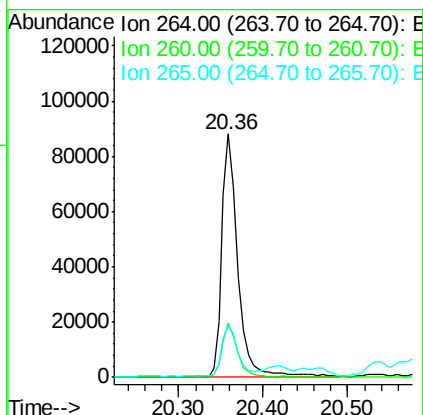
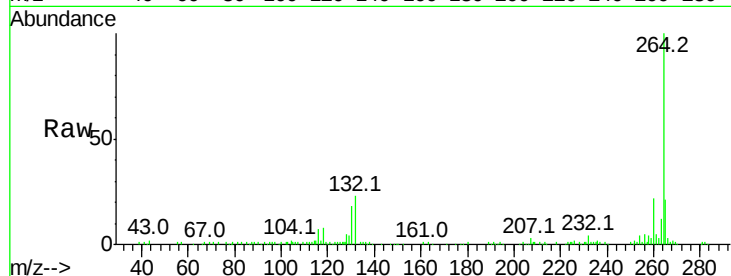


#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.36 min Scan# 3132
Delta R.T. -0.01 min
Lab File: BF095420.D
Acq: 25 May 2017 11:29

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 117380

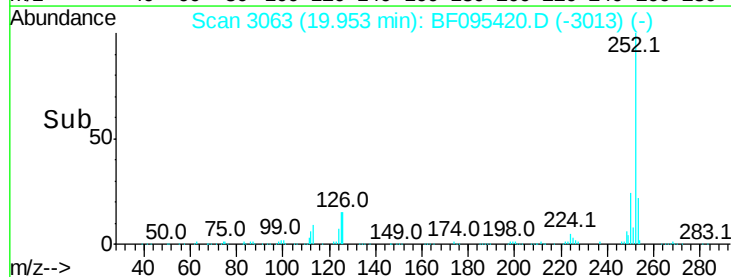
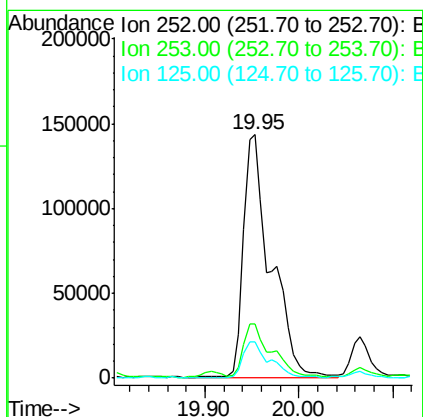
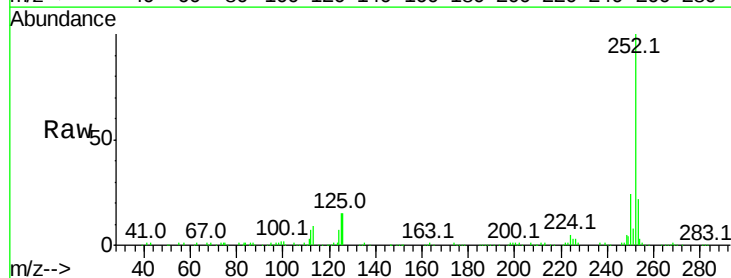
Ion	Ratio	Lower	Upper
264	100		
260	22.3	19.5	29.3
265	21.4	17.2	25.8

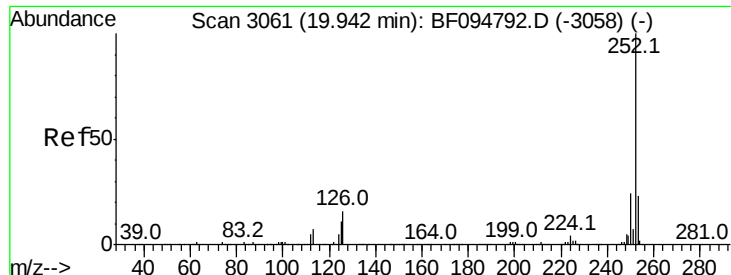


#87
Benzo(b)fluoranthene
Concen: 39.42 ng
RT: 19.95 min Scan# 3063
Delta R.T. -0.01 min
Lab File: BF095420.D
Acq: 25 May 2017 11:29

Tgt Ion:252 Resp: 285935

Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.1	27.1
125	15.1	9.8	14.8

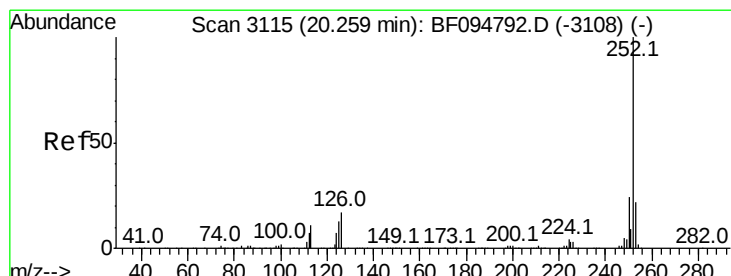
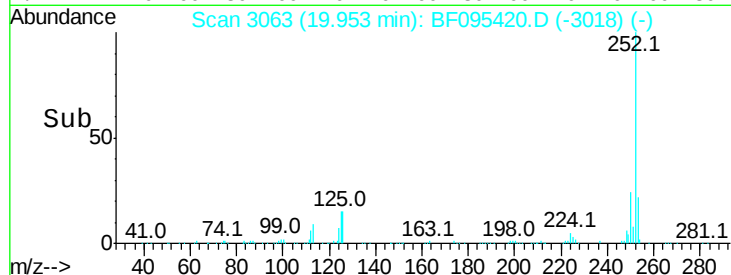
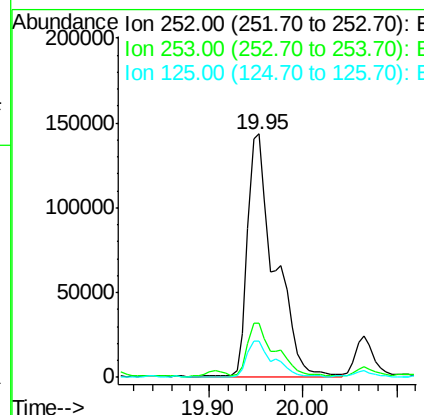
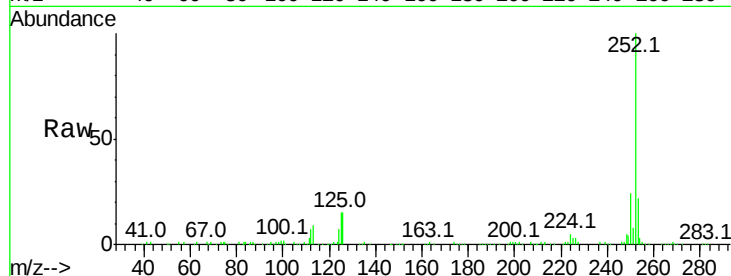




#88
Benzo(k)fluoranthene
Concen: 40.87 ng
RT: 19.95 min Scan# 3063
Delta R.T. -0.04 min
Lab File: BF095420.D
Acq: 25 May 2017 11:29

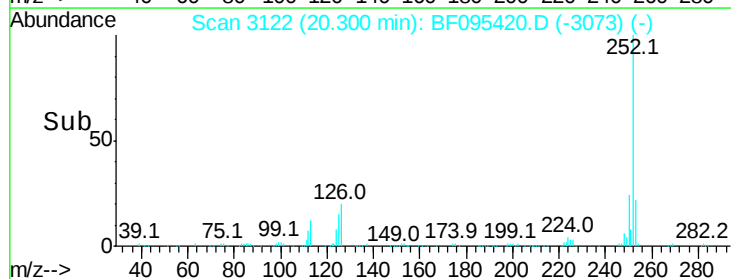
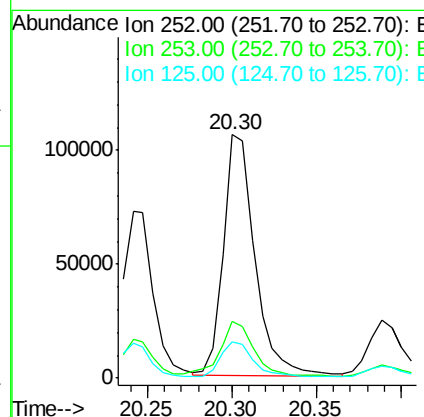
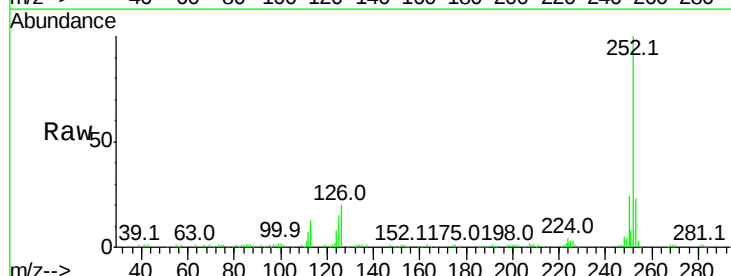
Instrument :
BNA_F
ClientSampleId :

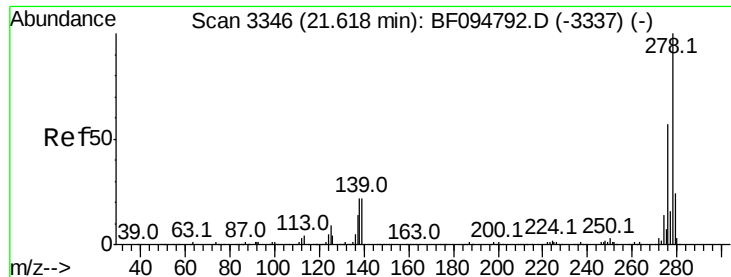
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.4	27.6
125	15.1	13.1	19.7



#89
Benzo(a)pyrene
Concen: 20.70 ng
RT: 20.30 min Scan# 3122
Delta R.T. -0.01 min
Lab File: BF095420.D
Acq: 25 May 2017 11:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	15.0	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 3.42 ng

RT: 21.69 min Scan# 3359

Delta R.T. -0.01 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

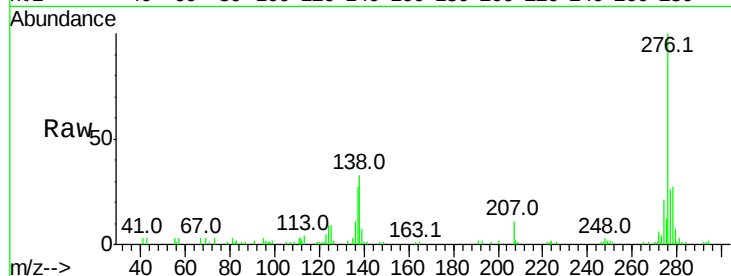
Instrument :

BNA_F

ClientSampleId :

Tot Ion:278 Resp: 18926

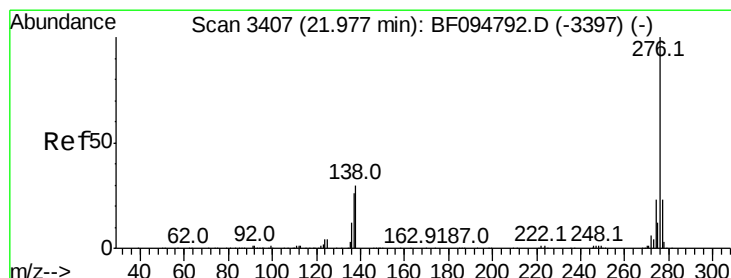
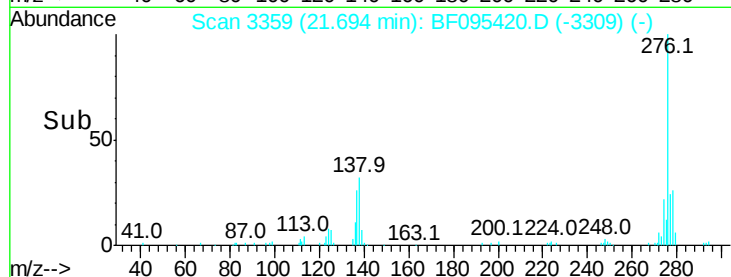
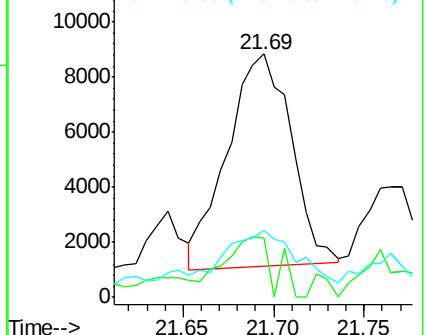
Ion	Ratio	Lower	Upper
278	100		
139	24.3	16.6	24.8
279	27.3	19.3	28.9



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(g,h,i)perylene

Concen: 11.58 ng

RT: 22.09 min Scan# 3426

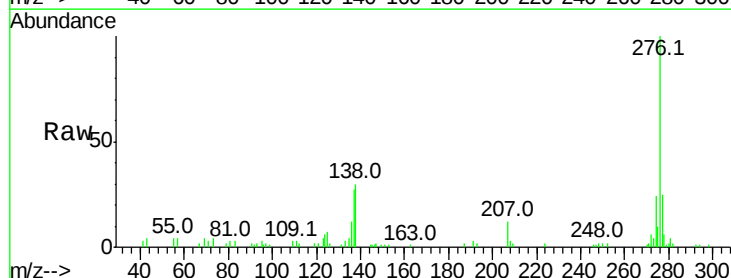
Delta R.T. 0.01 min

Lab File: BF095420.D

Acq: 25 May 2017 11:29

Tgt Ion:276 Resp: 62816

Ion	Ratio	Lower	Upper
276	100		
277	25.3	18.6	28.0
138	30.4	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

