

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\
 Data File : BF079376.D
 Acq On : 20 May 2015 9:45
 Operator : TP/IZ
 Sample : G2289-02DL 2X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 20 12:35:14 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 20 05:08:22 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.13	152	46385	20.00	ng	0.00
21) Naphthalene-d8	8.71	136	195939	20.00	ng	0.00
38) Acenaphthene-d10	10.88	164	95131	20.00	ng	0.00
63) Phenanthrene-d10	12.72	188	182576	20.00	ng	0.00
75) Chrysene-d12	16.01	240	204685	20.00	ng	-0.01
86) Perylene-d12	17.77	264	227709	20.00	ng	-0.05

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	134742	50.00	ng	0.00
7) Phenol-d6	6.70	99	176631	49.59	ng	-0.01
23) Nitrobenzene-d5	7.82	82	102772	30.14	ng	-0.01
41) 2,4,6-Tribromophenol	11.85	330	50758	49.32	ng	-0.01
44) 2-Fluorobiphenyl	10.04	172	220830	32.34	ng	-0.01
78) Terphenyl-d14	14.71	244	257104	30.07	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
51) Acenaphthene	10.91	154	24676	4.27	ng	97
54) Dibenzofuran	11.13	168	18120	2.17	ng	98
57) Fluorene	11.55	166	23464	3.43	ng	99
70) Phenanthrene	12.74	178	333771	32.68	ng	99
71) Anthracene	12.81	178	86626	8.65	ng	99
72) Carbazole	13.02	167	22144	2.32	ng	98
74) Fluoranthene	14.22	202	525379	49.36	ng	100
77) Pyrene	14.50	202	561239	47.58	ng	99
80) Benzo(a)anthracene	16.00	228	278096	24.81	ng	99
82) Chrysene	16.03	228	258923	24.02	ng	98
85) Indeno(1,2,3-cd)pyrene	19.15	276	160831	11.71	ng	93
87) Benzo(b)fluoranthene	17.33	252	439175	35.24	ng	99
88) Benzo(k)fluoranthene	17.33	252	439175	36.40	ng	# 96
89) Benzo(a)pyrene	17.71	252	272993	23.79	ng	97
90) Dibenzo(a,h)anthracene	19.18	278	36941	3.03	ng	# 91
91) Benzo(g,h,i)perylene	19.57	276	164057	13.42	ng	98

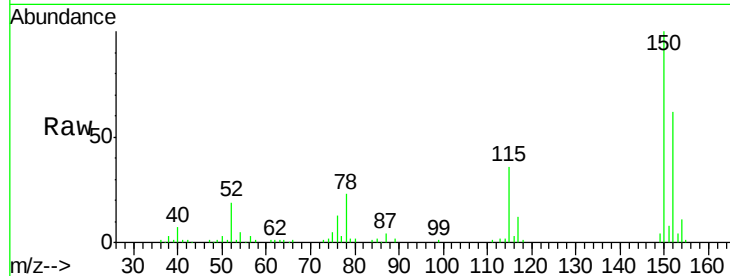
(#) = qualifier out of range (m) = manual integration (+) = signals summed



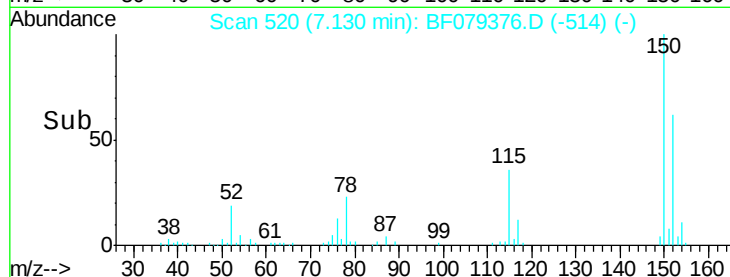
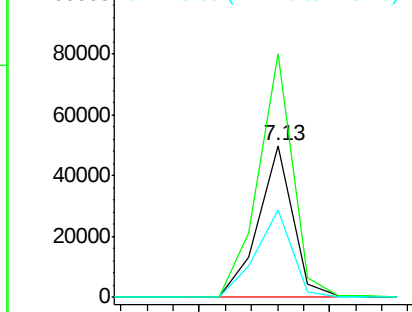
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.13 min Scan# 520
 Delta R.T. 0.00 min
 Lab File: BF079376.D
 Acq: 20 May 2015 9:45

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	152	Resp:	46385
Ion	Ratio	Lower	Upper
152	100		
150	160.4	123.8	185.8
115	57.6	49.4	74.0

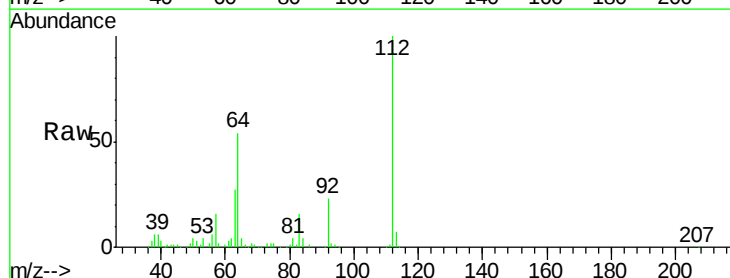


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

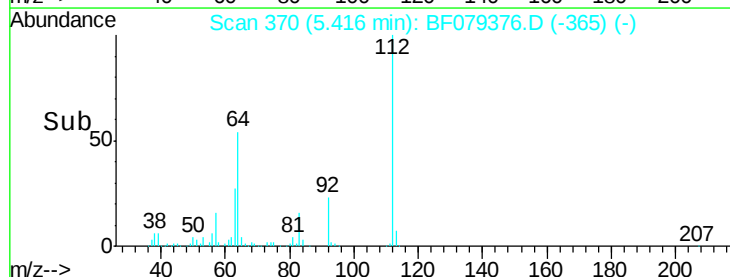
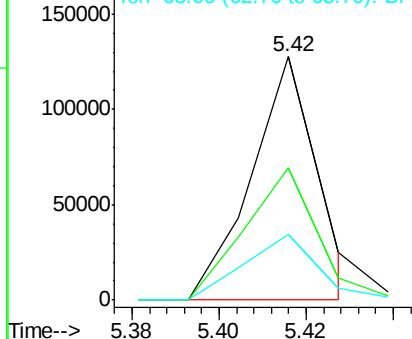


#5
 2-Fluorophenol
 Concen: 50.00 ng
 RT: 5.42 min Scan# 370
 Delta R.T. 0.00 min
 Lab File: BF079376.D
 Acq: 20 May 2015 9:45

Tgt Ion:	112	Resp:	134742
Ion	Ratio	Lower	Upper
112	100		
64	54.3	44.2	66.2
63	26.7	22.7	34.1



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: 49.59 ng

RT: 6.70 min Scan# 482

Delta R.T. -0.01 min

Lab File: BF079376.D

Acq: 20 May 2015 9:45

Instrument :

BNA_F

ClientSampleId :

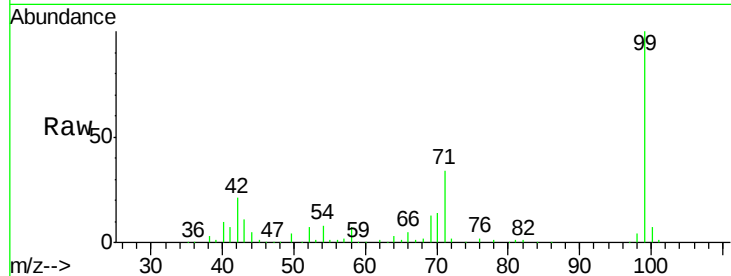
Tot Ion: 99 Resp: 176631

Ion Ratio Lower Upper

99 100

42 21.1 17.1 25.7

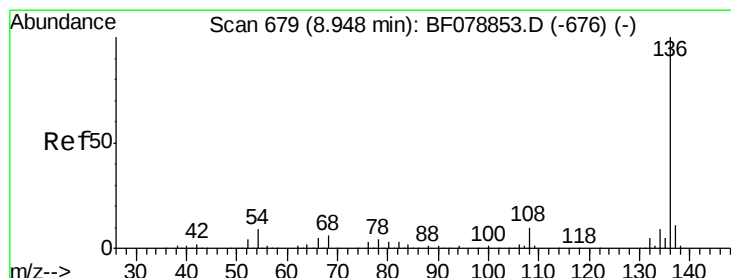
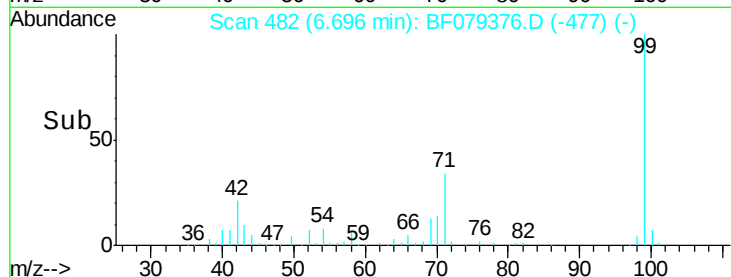
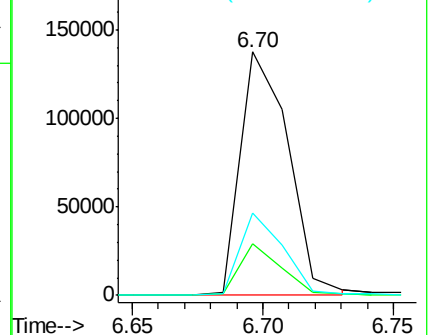
71 33.6 26.3 39.5



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: 8.71 min Scan# 658

Delta R.T. 0.00 min

Lab File: BF079376.D

Acq: 20 May 2015 9:45

Tgt Ion: 136 Resp: 195939

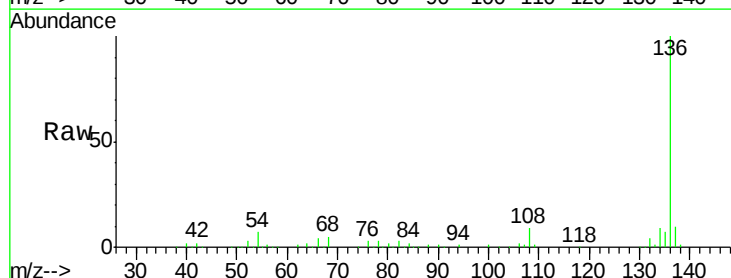
Ion Ratio Lower Upper

136 100

137 10.4 8.8 13.2

54 6.6 6.9 10.3#

68 4.8 4.9 7.3#

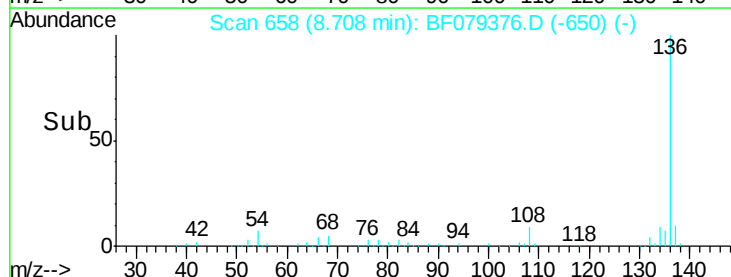
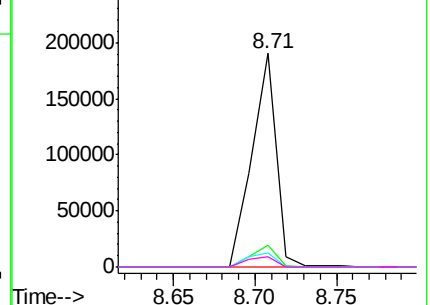


Abundance Ion 136.00 (135.70 to 136.70): E

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

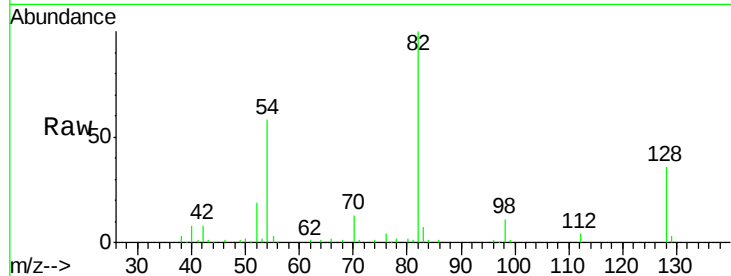




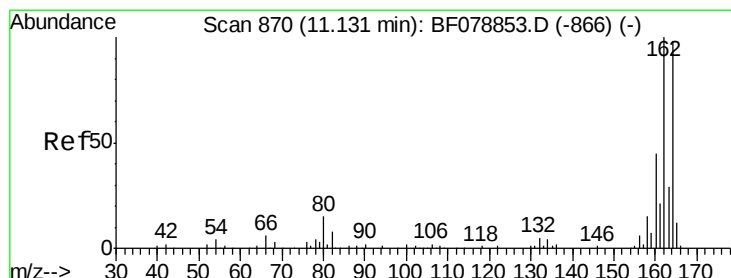
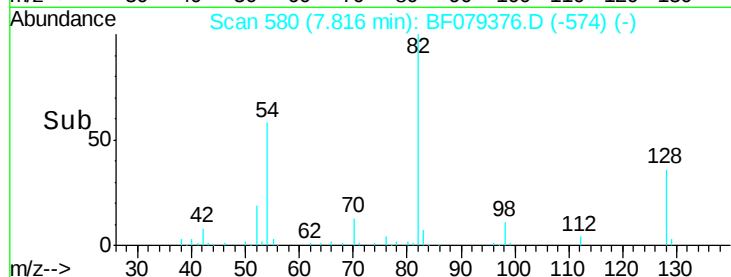
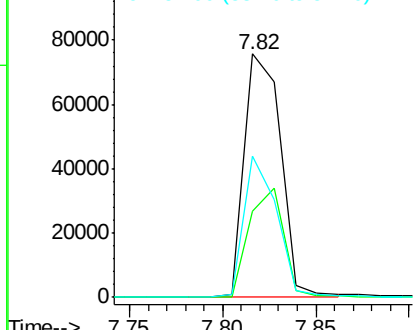
#23
Nitrobenzene-d5
Concen: 30.14 ng
RT: 7.82 min Scan# 580
Delta R.T. -0.01 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 102772
Ion Ratio Lower Upper
82 100
128 35.6 29.7 44.5
54 58.2 46.2 69.4

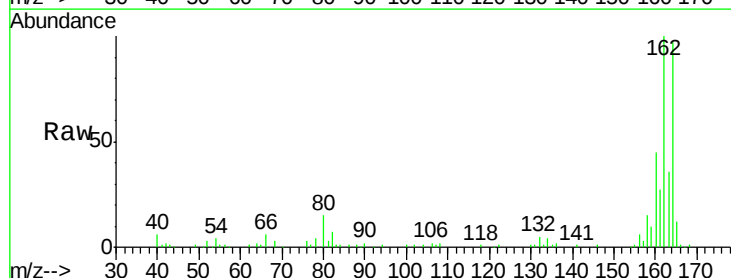


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

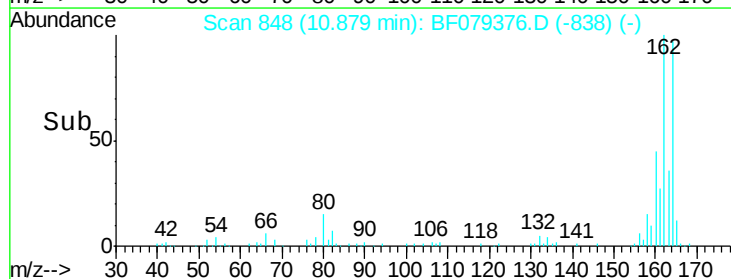
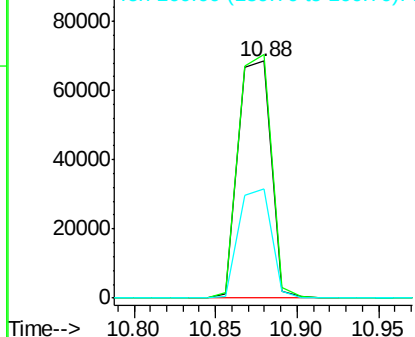


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.88 min Scan# 848
Delta R.T. 0.00 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

Tgt Ion:164 Resp: 95131
Ion Ratio Lower Upper
164 100
162 102.8 81.4 122.0
160 46.0 36.6 54.8



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

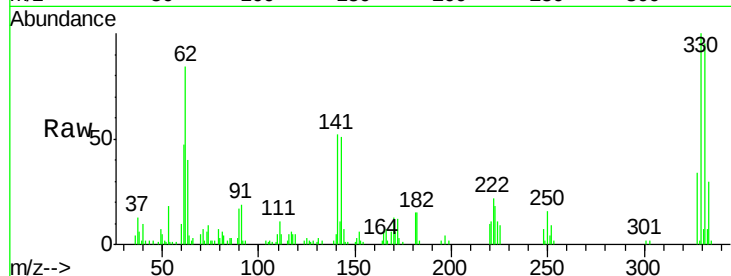




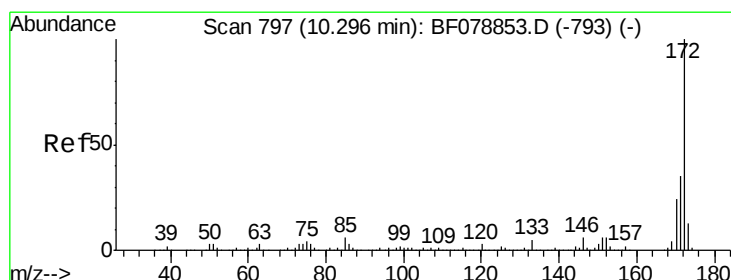
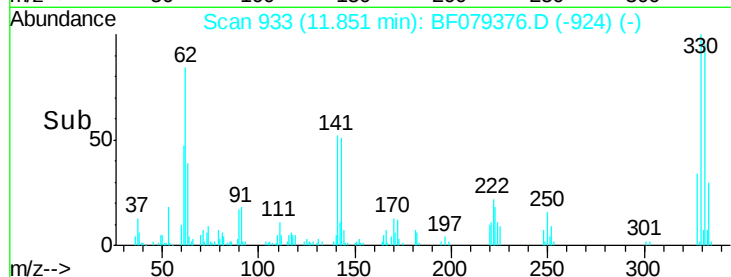
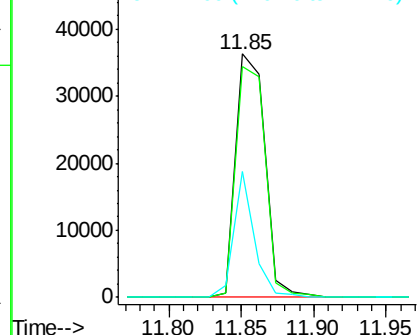
#41
 2,4,6-Tribromophenol
 Concen: 49.32 ng
 RT: 11.85 min Scan# 933
 Delta R.T. -0.01 min
 Lab File: BF079376.D
 Acq: 20 May 2015 9:45

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 50758
 Ion Ratio Lower Upper
 330 100
 332 96.6 76.9 115.3
 141 36.2 27.8 41.8

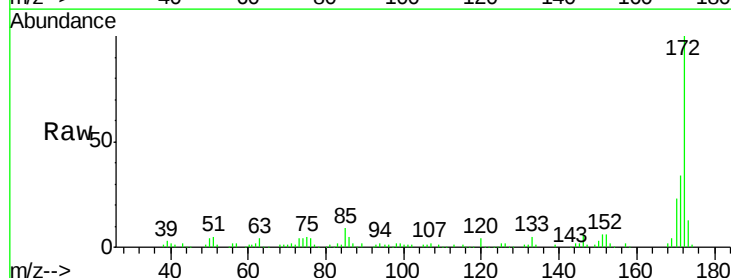


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

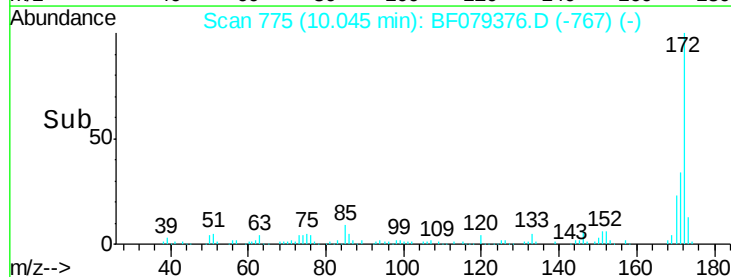
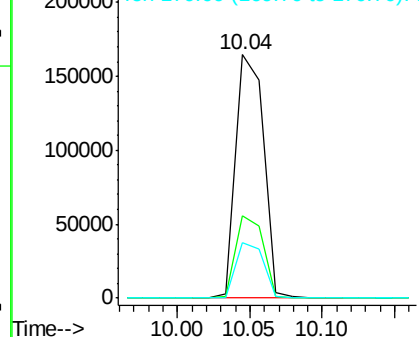


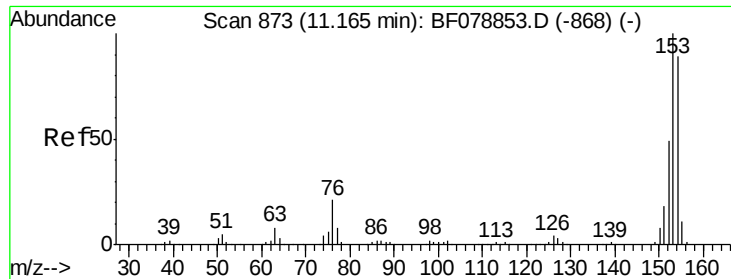
#44
 2-Fluorobiphenyl
 Concen: 32.34 ng
 RT: 10.04 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: BF079376.D
 Acq: 20 May 2015 9:45

Tgt Ion:172 Resp: 220830
 Ion Ratio Lower Upper
 172 100
 171 34.1 28.3 42.5
 170 22.7 19.4 29.2



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

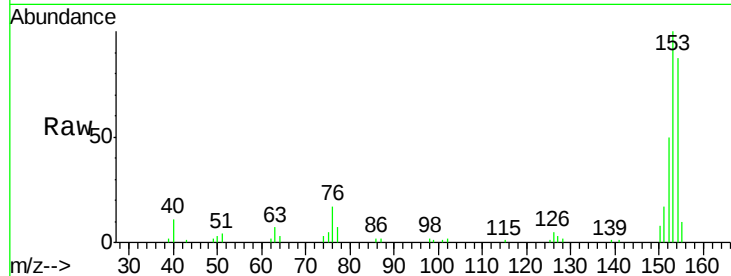




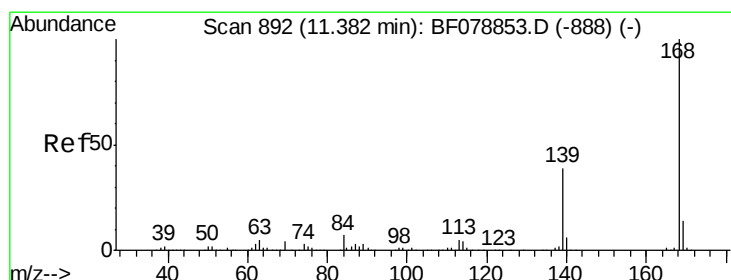
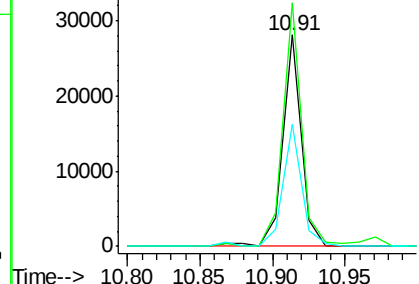
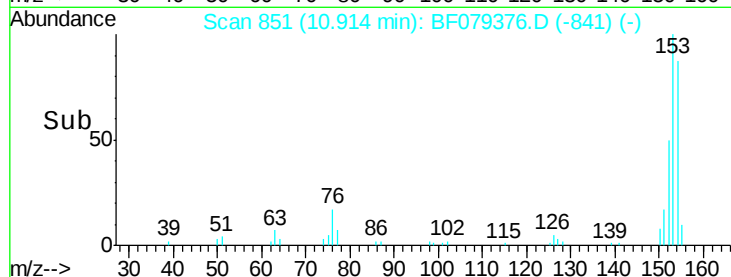
#51
Acenaphthene
Concen: 4.27 ng
RT: 10.91 min Scan# 851
Delta R.T. 0.00 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:154 Resp: 24676
Ion Ratio Lower Upper
154 100
153 115.4 90.2 135.2
152 57.9 43.8 65.8

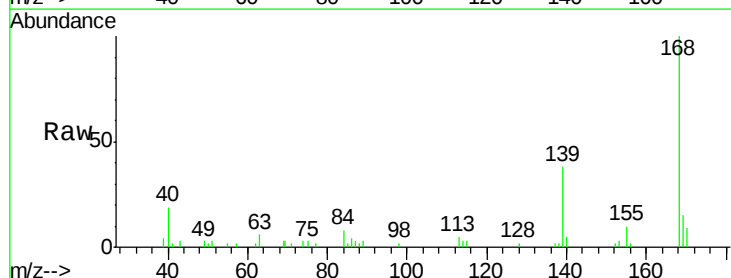


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

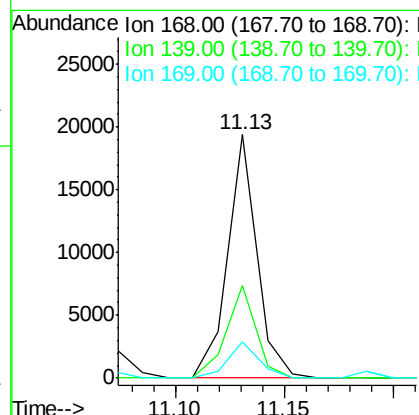
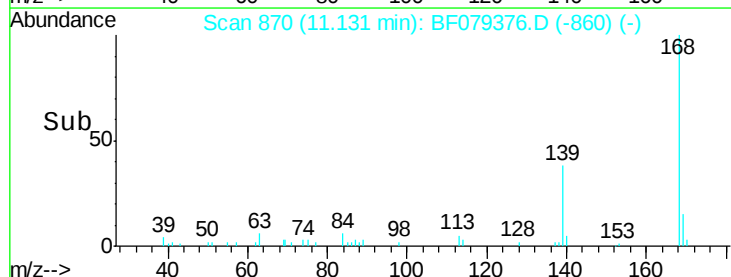


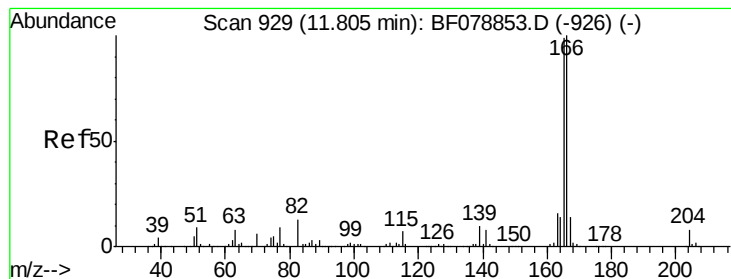
#54
Dibenzofuran
Concen: 2.17 ng
RT: 11.13 min Scan# 870
Delta R.T. 0.00 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

Tgt Ion:168 Resp: 18120
Ion Ratio Lower Upper
168 100
139 38.2 31.5 47.3
169 14.7 11.0 16.4



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 3.43 ng

RT: 11.55 min Scan# 907

Delta R.T. 0.00 min

Lab File: BF079376.D

Acq: 20 May 2015 9:45

Instrument :

BNA_F

ClientSampleId :

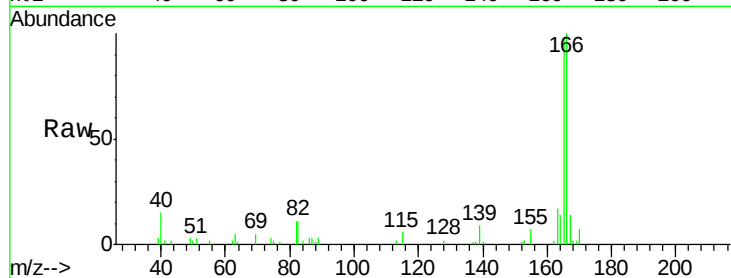
Tot Ion:166 Resp: 23464

Ion Ratio Lower Upper

166 100

165 98.1 79.5 119.3

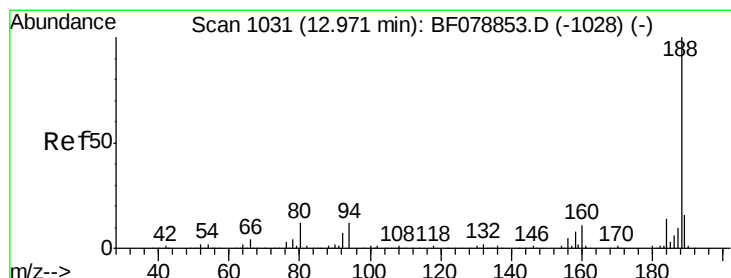
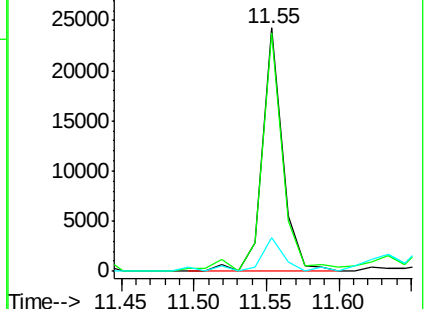
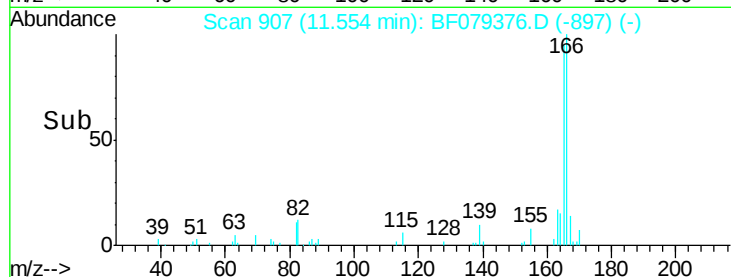
167 14.0 11.0 16.6



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: 12.72 min Scan# 1009

Delta R.T. 0.00 min

Lab File: BF079376.D

Acq: 20 May 2015 9:45

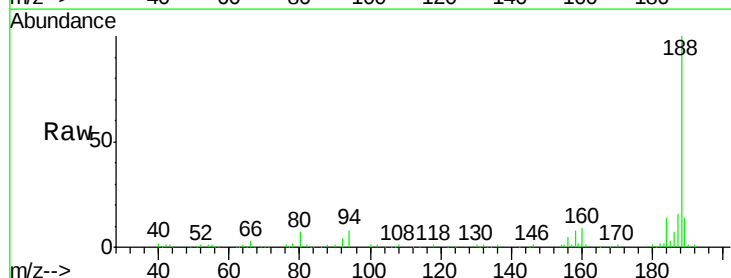
Tgt Ion:188 Resp: 182576

Ion Ratio Lower Upper

188 100

94 7.6 9.4 14.0#

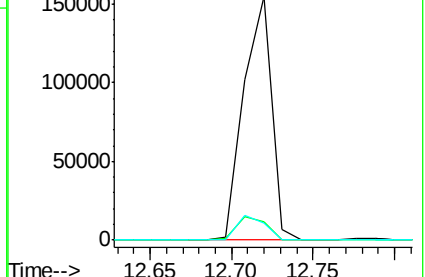
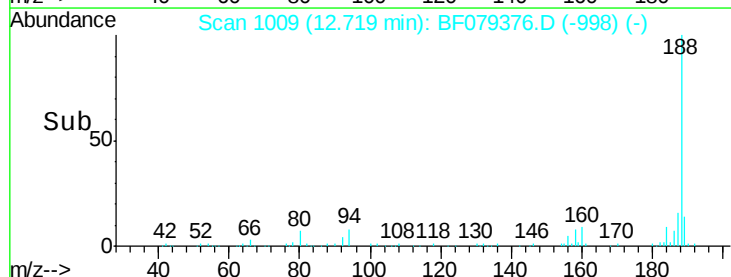
80 7.1 9.8 14.6#

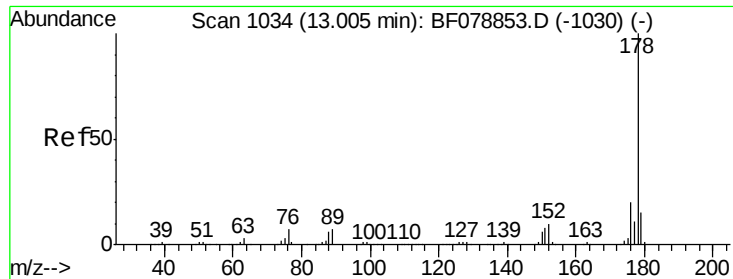


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

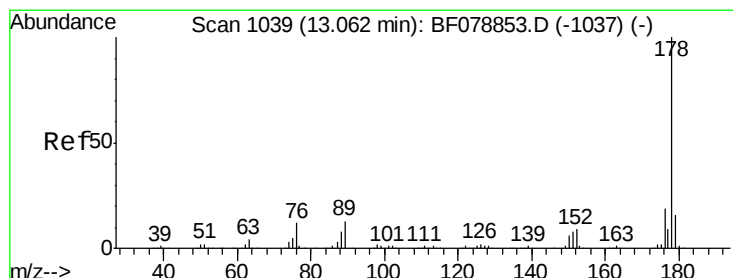
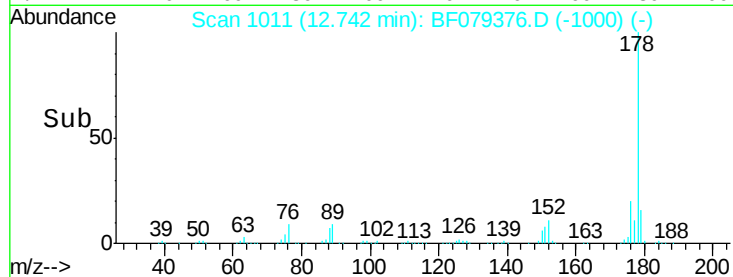
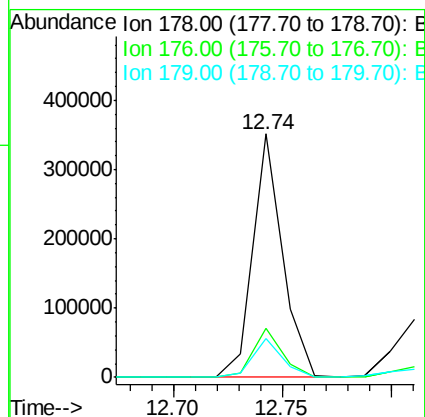
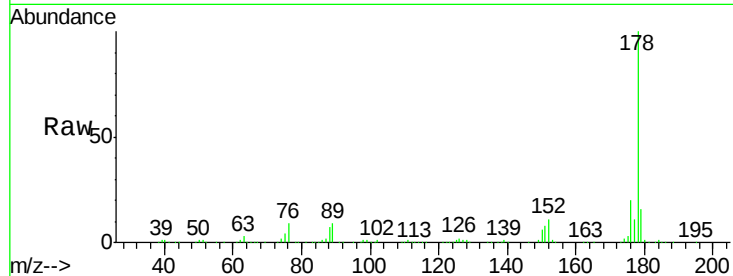




#70
 Phenanthrene
 Concen: 32.68 ng
 RT: 12.74 min Scan# 1011
 Delta R.T. 0.00 min
 Lab File: BF079376.D
 Acq: 20 May 2015 9:45

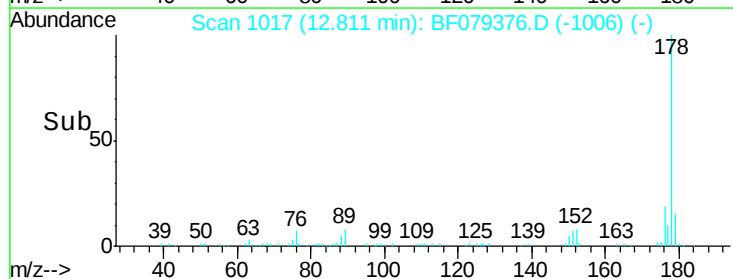
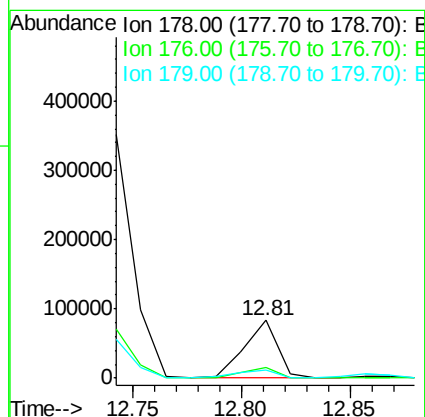
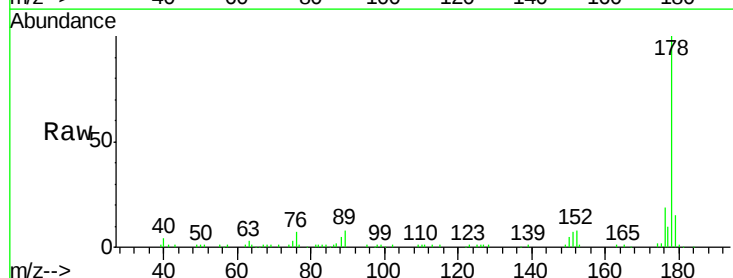
Instrument :
 BNA_F
 ClientSampled :

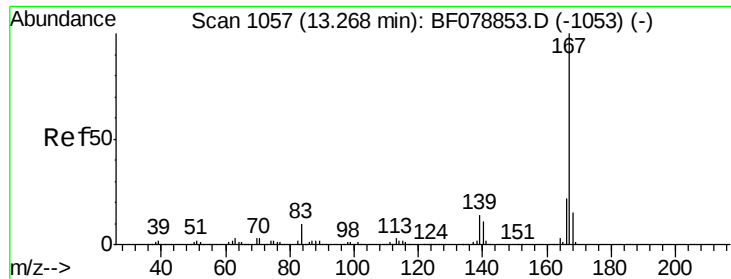
Tot Ion:178 Resp: 333771
 Ion Ratio Lower Upper
 178 100
 176 20.2 15.9 23.9
 179 15.8 12.2 18.4



#71
 Anthracene
 Concen: 8.65 ng
 RT: 12.81 min Scan# 1017
 Delta R.T. 0.00 min
 Lab File: BF079376.D
 Acq: 20 May 2015 9:45

Tgt Ion:178 Resp: 86626
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.3 22.9
 179 15.0 12.6 19.0

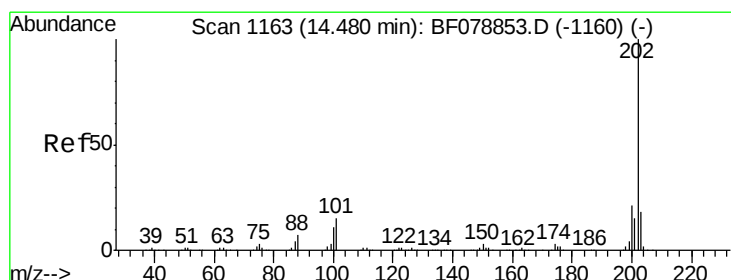
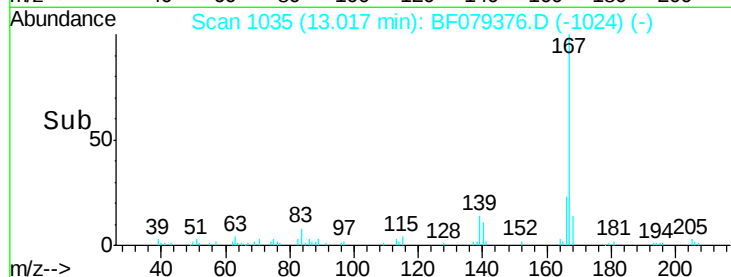
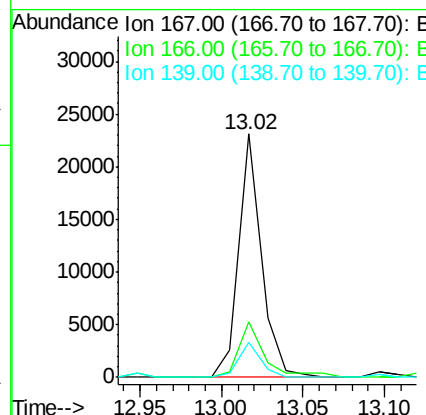
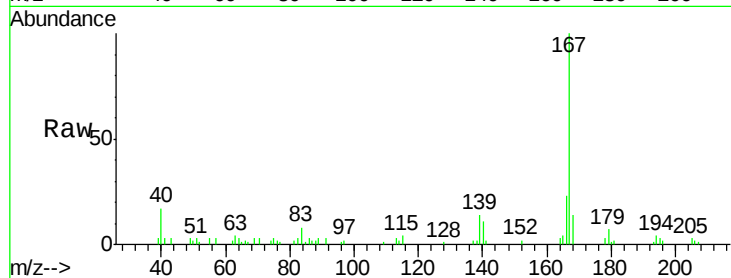




#72
 Carbazole
 Concen: 2.32 ng
 RT: 13.02 min Scan# 1035
 Delta R.T. 0.00 min
 Lab File: BF079376.D
 Acq: 20 May 2015 9:45

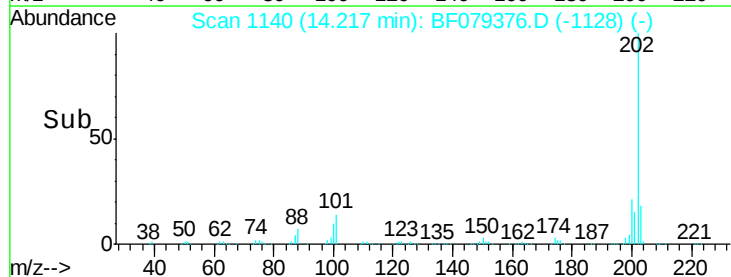
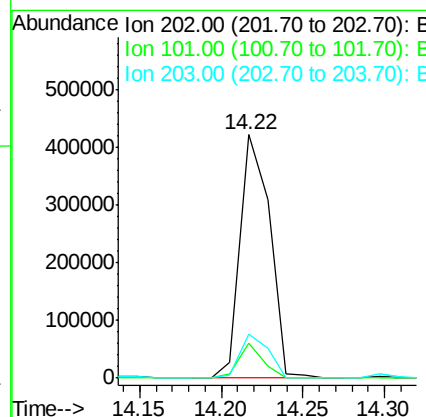
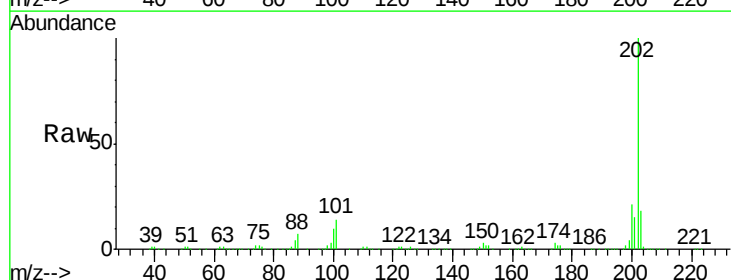
Instrument :
 BNA_F
 ClientSampleId :

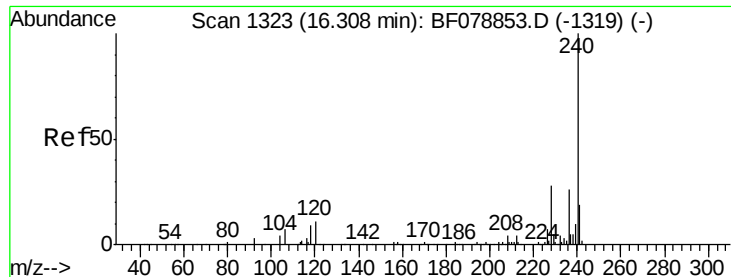
Tot Ion:167 Resp: 22144
 Ion Ratio Lower Upper
 167 100
 166 22.9 17.5 26.3
 139 14.2 11.0 16.4



#74
 Fluoranthene
 Concen: 49.36 ng
 RT: 14.22 min Scan# 1140
 Delta R.T. -0.01 min
 Lab File: BF079376.D
 Acq: 20 May 2015 9:45

Tgt Ion:202 Resp: 525379
 Ion Ratio Lower Upper
 202 100
 101 14.4 0.0 34.7
 203 17.9 0.0 37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.01 min Scan# 1297

Delta R.T. -0.01 min

Lab File: BF079376.D

Acq: 20 May 2015 9:45

Instrument :

BNA_F

ClientSampleId :

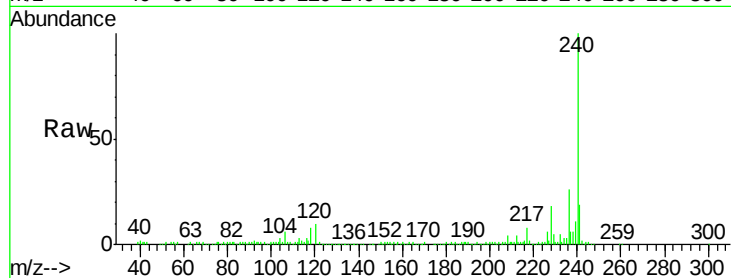
Tot Ion:240 Resp: 204685

Ion Ratio Lower Upper

240 100

120 9.7 8.6 12.8

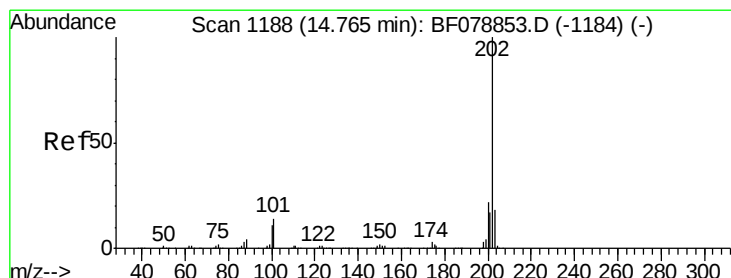
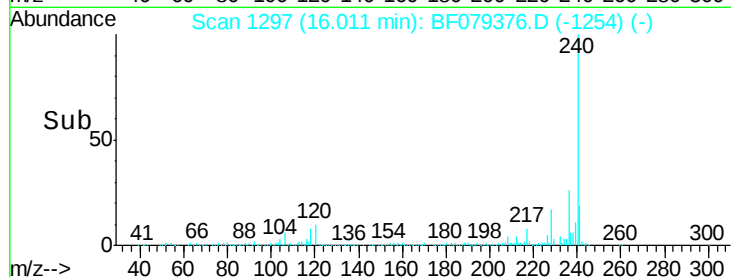
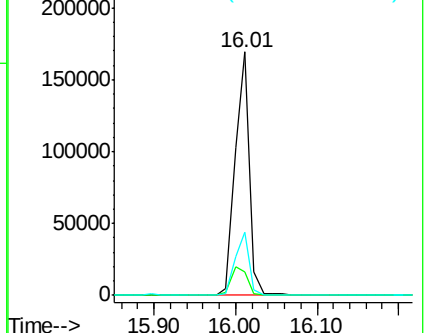
236 25.7 21.0 31.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 47.58 ng

RT: 14.50 min Scan# 1165

Delta R.T. 0.00 min

Lab File: BF079376.D

Acq: 20 May 2015 9:45

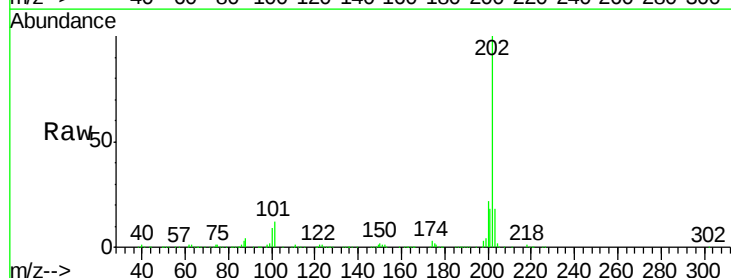
Tgt Ion:202 Resp: 561239

Ion Ratio Lower Upper

202 100

200 22.1 17.5 26.3

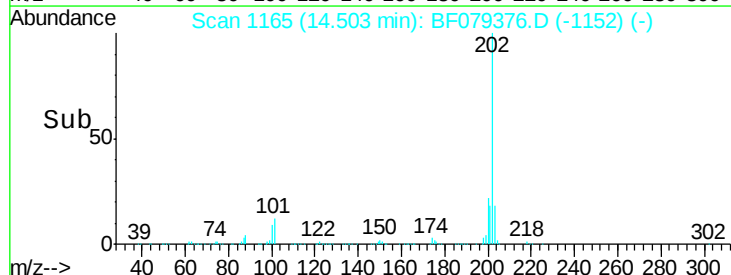
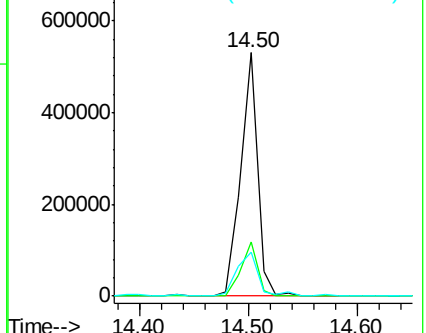
203 18.0 14.7 22.1

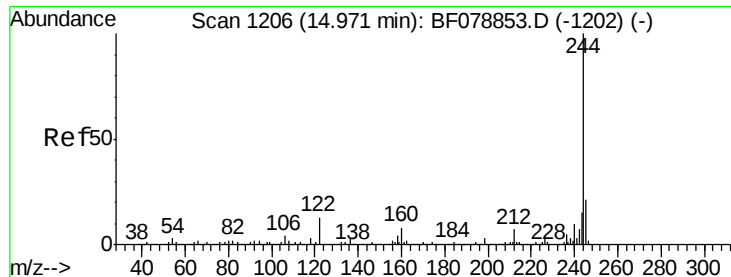


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 30.07 ng

RT: 14.71 min Scan# 1183

Delta R.T. -0.01 min

Lab File: BF079376.D

Acq: 20 May 2015 9:45

Instrument :

BNA_F

ClientSampleId :

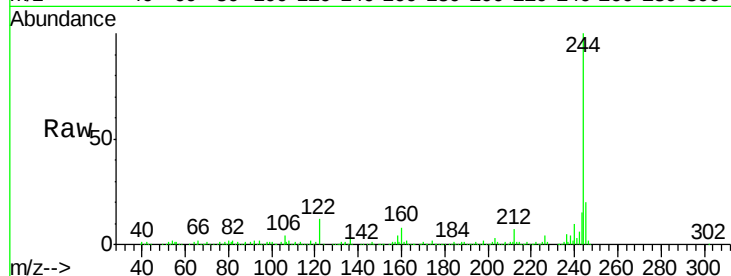
Tot Ion:244 Resp: 257104

Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

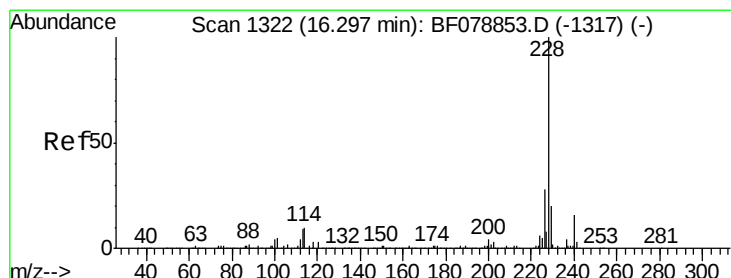
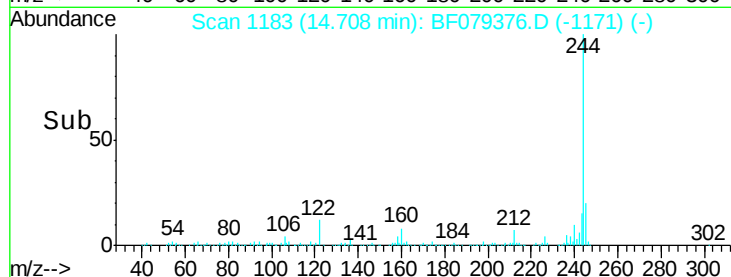
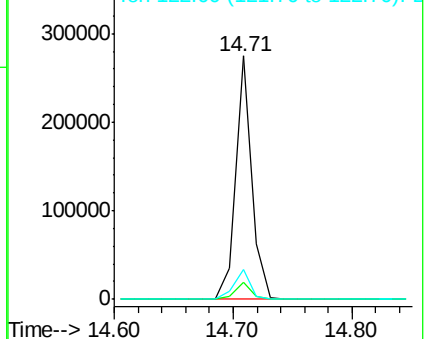
122 12.1 10.5 15.7



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: 24.81 ng

RT: 16.00 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BF079376.D

Acq: 20 May 2015 9:45

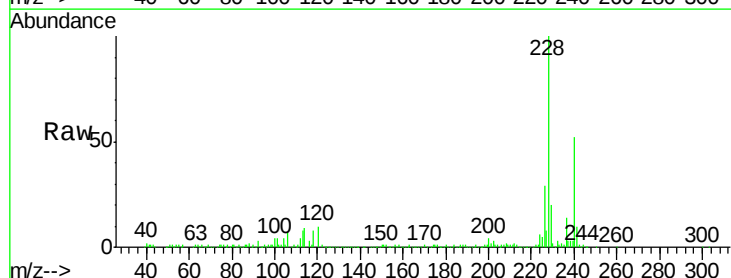
Tgt Ion:228 Resp: 278096

Ion Ratio Lower Upper

228 100

226 29.0 22.3 33.5

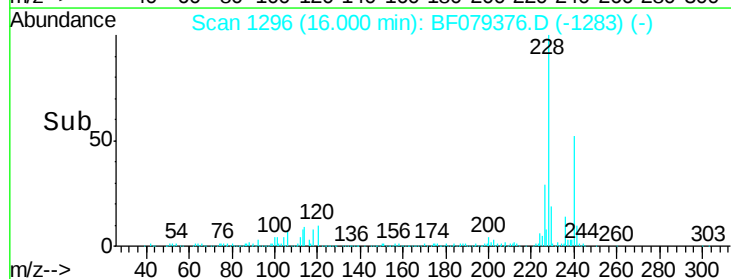
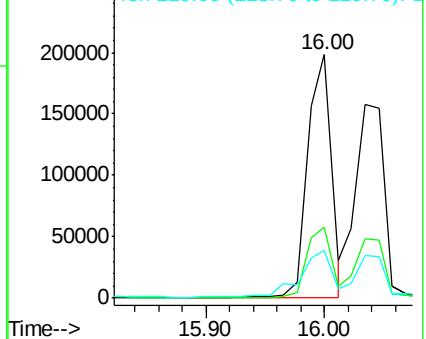
229 19.9 16.1 24.1

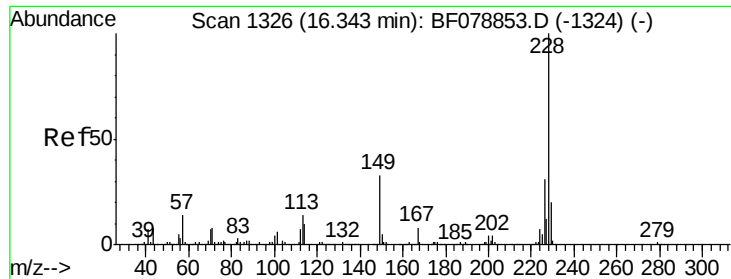


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 24.02 ng

RT: 16.03 min Scan# 1299

Delta R.T. -0.02 min

Lab File: BF079376.D

Acq: 20 May 2015 9:45

Instrument :

BNA_F

ClientSampleId :

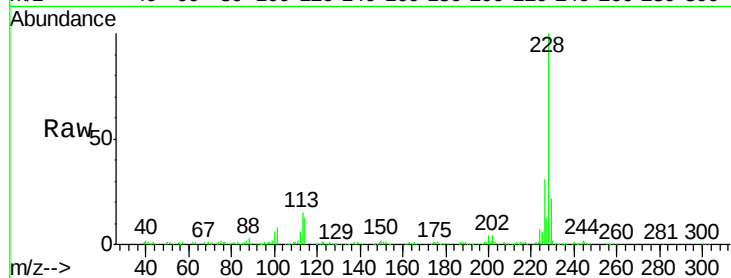
Tot Ion:228 Resp: 258923

Ion Ratio Lower Upper

228 100

226 30.8 24.8 37.2

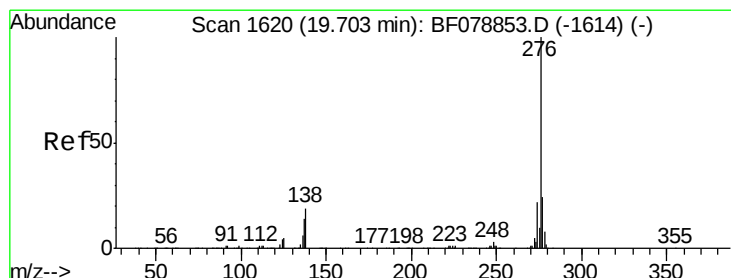
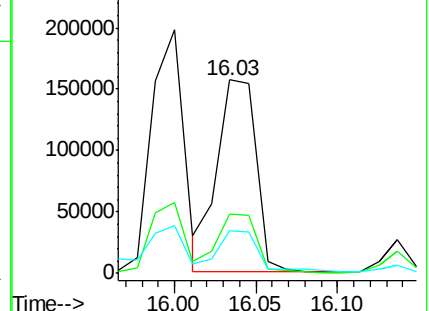
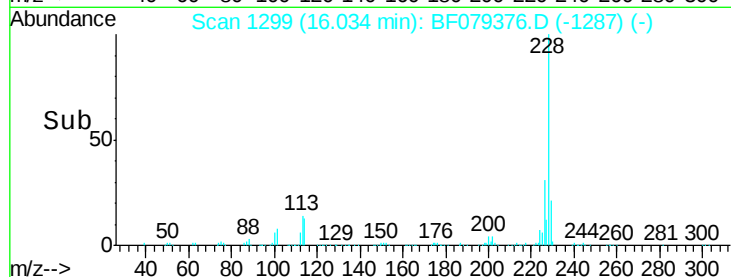
229 22.0 16.1 24.1



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: 11.71 ng

RT: 19.15 min Scan# 1572

Delta R.T. -0.06 min

Lab File: BF079376.D

Acq: 20 May 2015 9:45

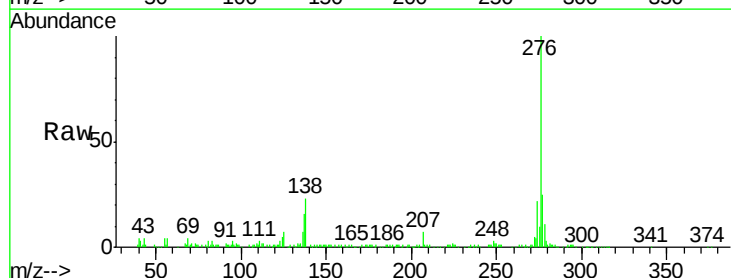
Tgt Ion:276 Resp: 160831

Ion Ratio Lower Upper

276 100

138 23.1 21.1 31.7

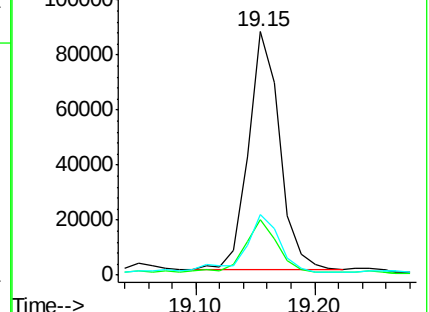
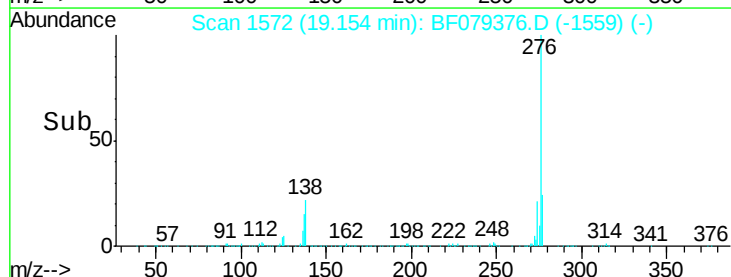
277 28.3 19.9 29.9

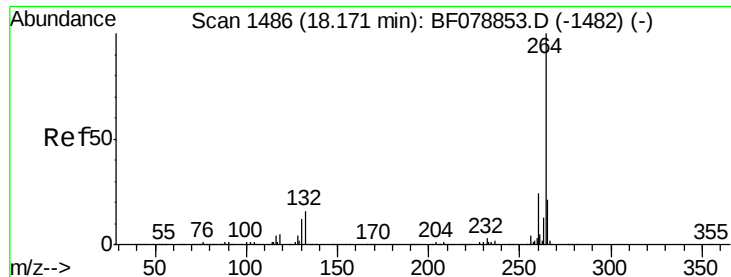


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



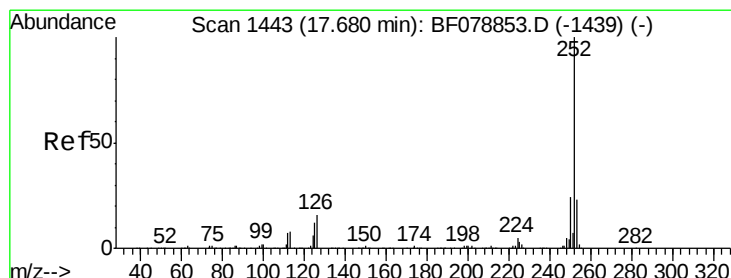
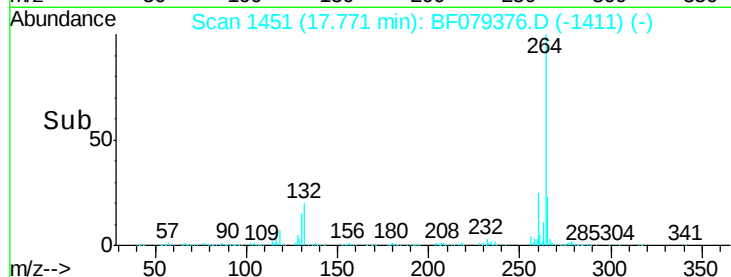
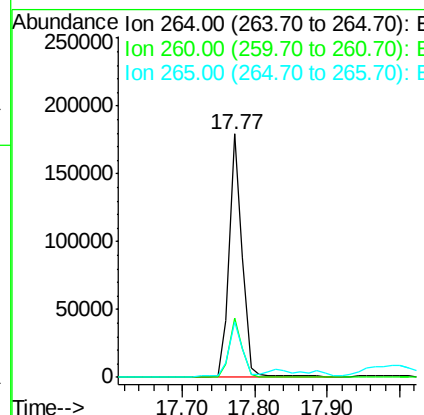
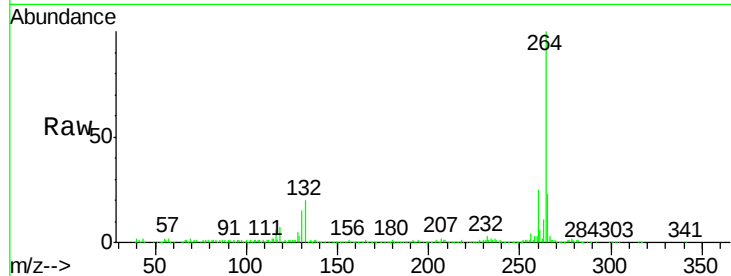


#86
Pervlene-d12
Concen: 20.00 ng
RT: 17.77 min Scan# 1451
Delta R.T. -0.05 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 227709

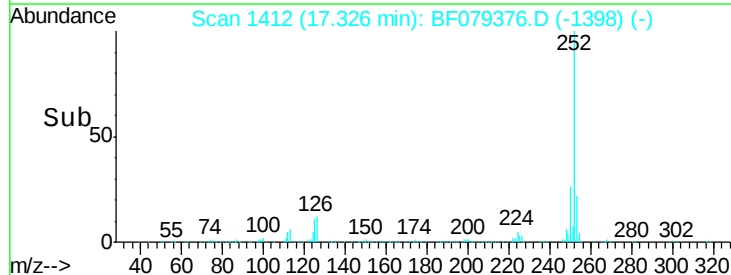
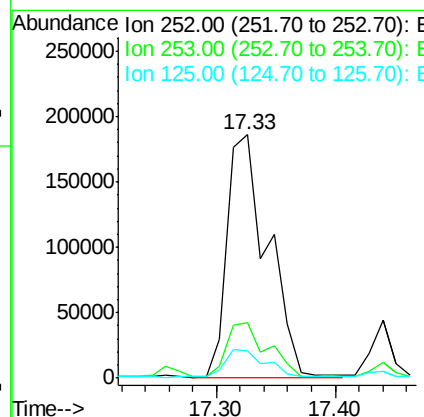
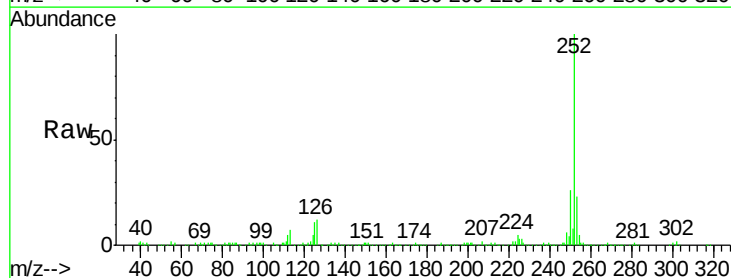
Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.2	28.8
265	22.8	17.2	25.8

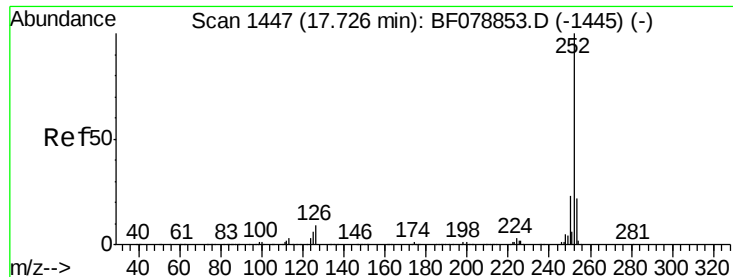


#87
Benzo(b)fluoranthene
Concen: 35.24 ng
RT: 17.33 min Scan# 1412
Delta R.T. -0.02 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

Tgt Ion:252 Resp: 439175

Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.1	27.1
125	11.2	9.4	14.2

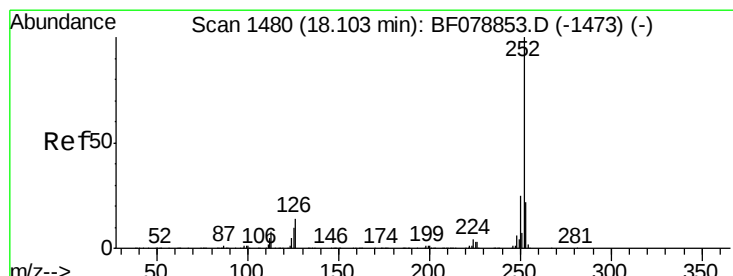
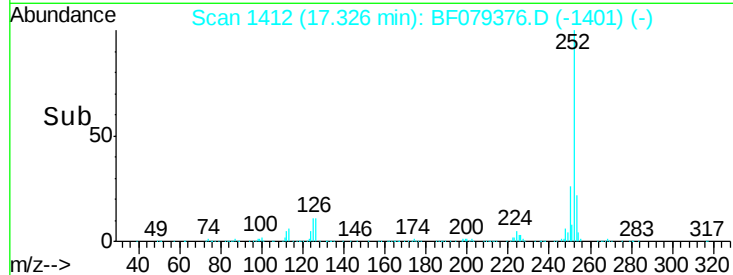
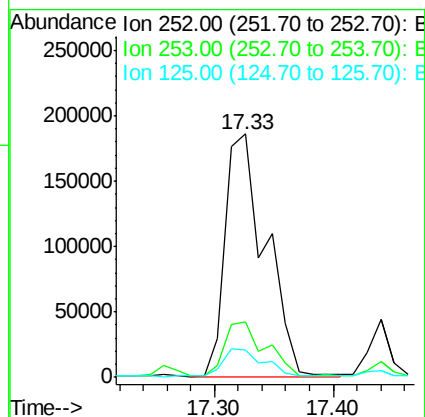
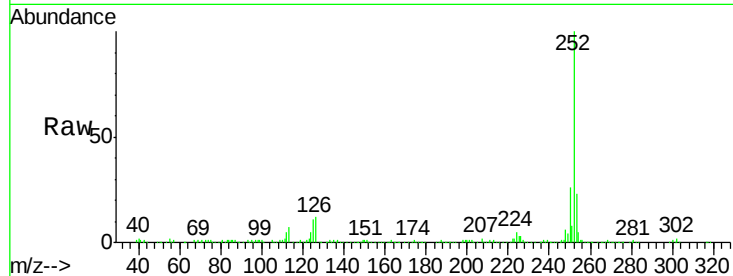




#88
Benzo(k)fluoranthene
Concen: 36.40 ng
RT: 17.33 min Scan# 1412
Delta R.T. -0.06 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

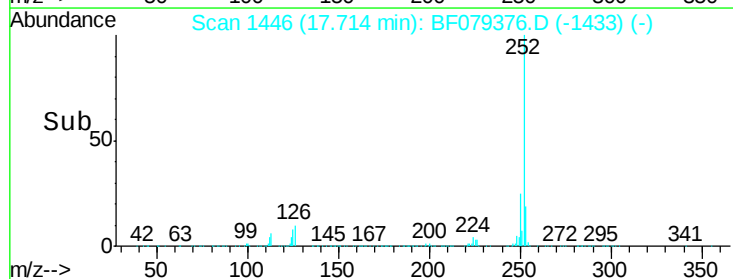
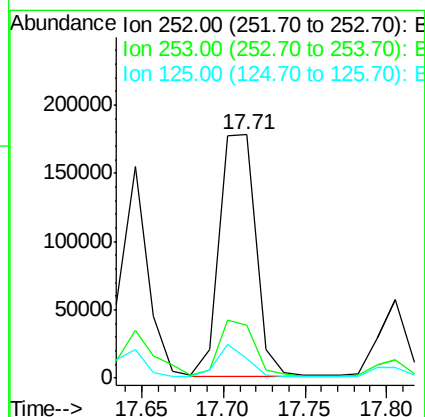
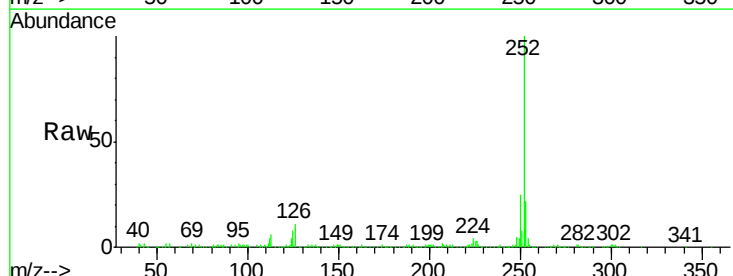
Instrument :
BNA_F
ClientSampleId :

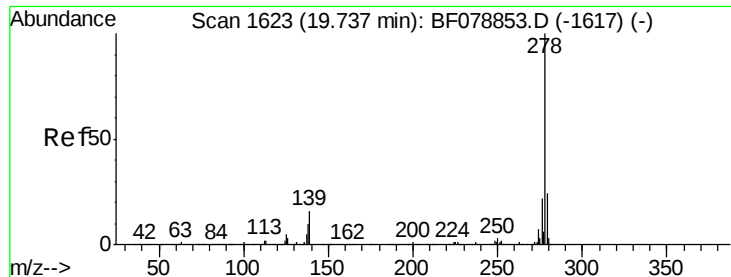
Tot Ion:252 Resp: 439175
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.0
125 11.2 6.1 9.1#



#89
Benzo(a)pyrene
Concen: 23.79 ng
RT: 17.71 min Scan# 1446
Delta R.T. -0.03 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

Tgt Ion:252 Resp: 272993
Ion Ratio Lower Upper
252 100
253 21.7 18.0 27.0
125 8.2 8.2 12.2



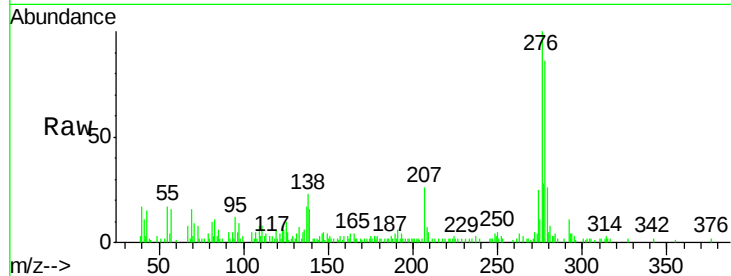


#90
Dibenzo(a,h)anthracene
Concen: 3.03 ng
RT: 19.18 min Scan# 1574
Delta R.T. -0.07 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

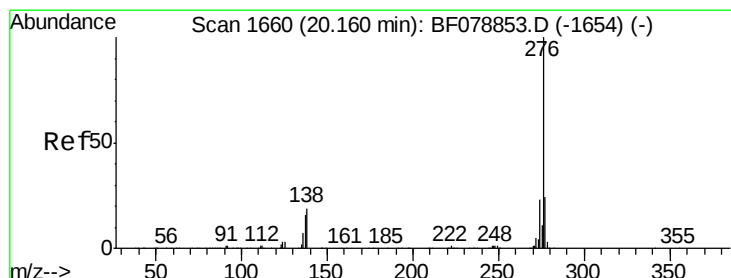
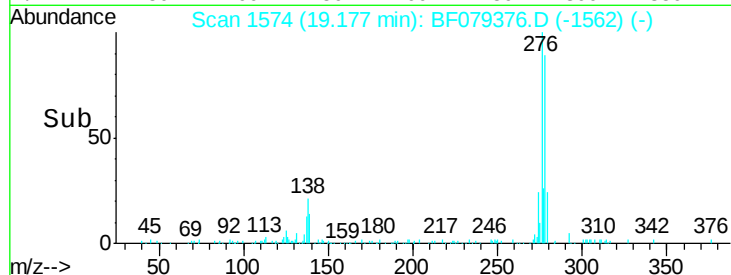
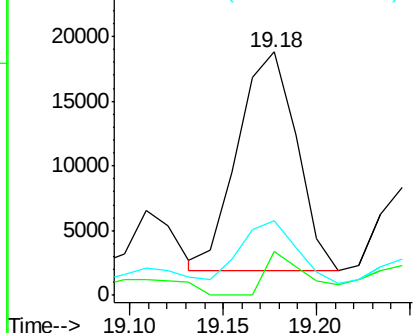
Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 36941

Ion	Ratio	Lower	Upper
278	100		
139	18.1	13.1	19.7
279	30.5	19.1	28.7#



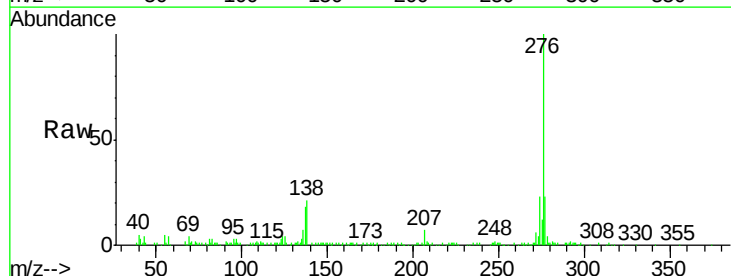
Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 13.42 ng
RT: 19.57 min Scan# 1608
Delta R.T. -0.06 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

Tgt Ion:276 Resp: 164057

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.8	28.2
138	20.9	15.2	22.8



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

