

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 :
 SB-34S

Quant Time: May 20 12:49:43 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

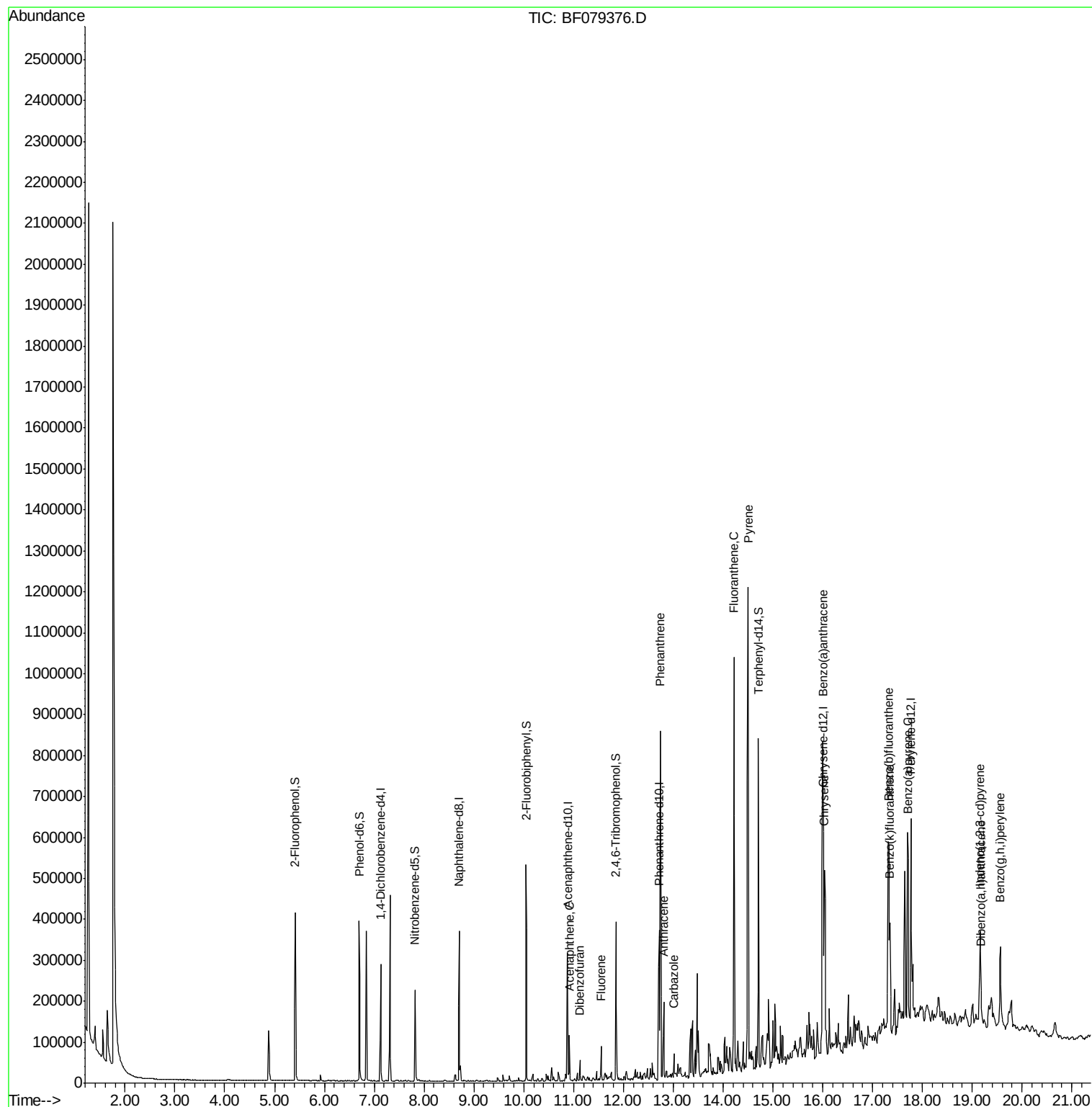
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.13	152	46385	20.00	ng	0.00
21) Naphthalene-d8	8.71	136	195939	20.00	ng	0.00
38) Acenaphthene-d10	10.88	164	95131	20.00	ng	0.00
63) Phenanthrene-d10	12.72	188	182576	20.00	ng	0.00
75) Chrysene-d12	16.01	240	204685	20.00	ng	-0.01
86) Perylene-d12	17.77	264	227709	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	138884m	51.54	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						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	332314m	26.66	ng	
88) Benzo(k)fluoranthene	17.35	252	108514m	8.99	ng	
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

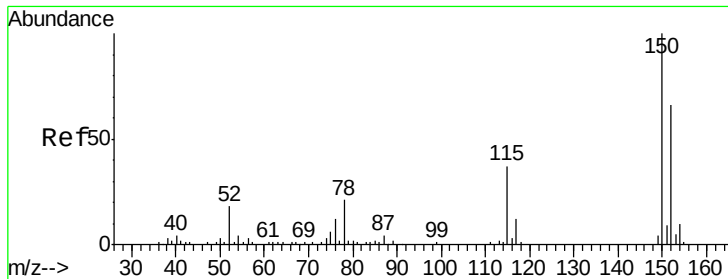
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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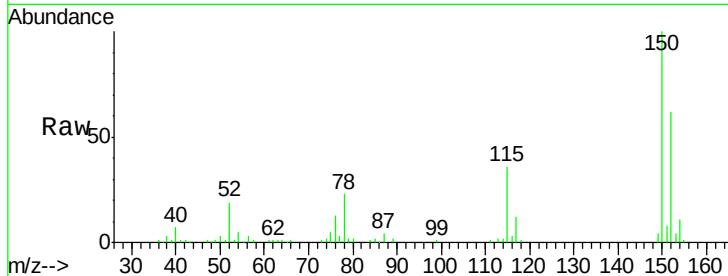


#1

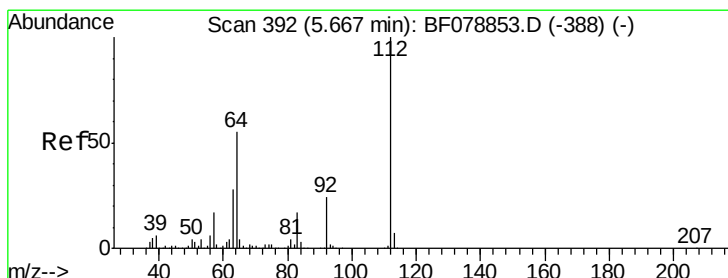
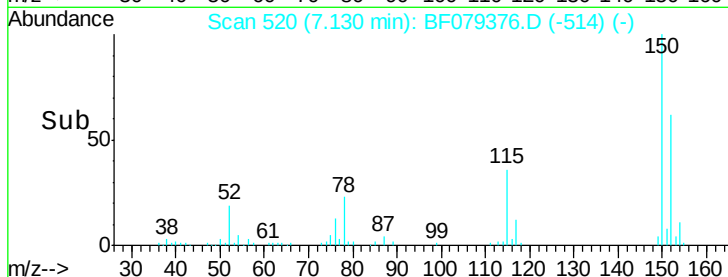
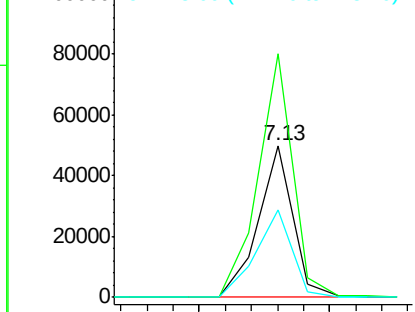
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.13 min Scan# 520
Delta R.T. 0.00 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

Instrument :
BNA_F
ClientSampleId :
SB-34S

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



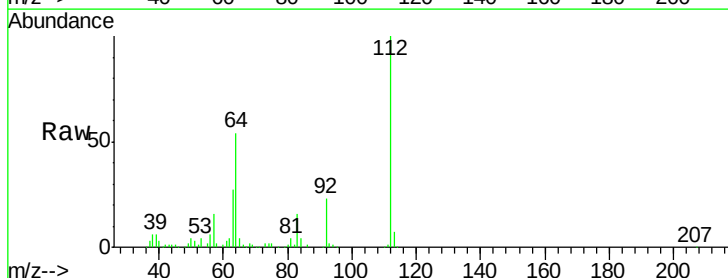
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



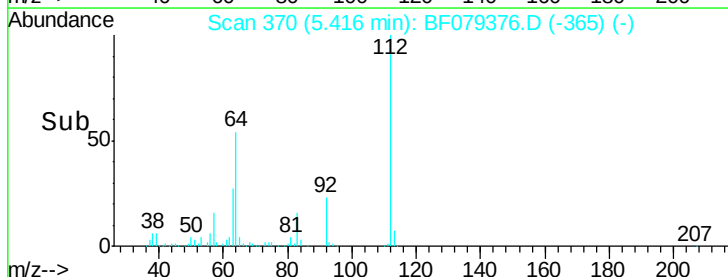
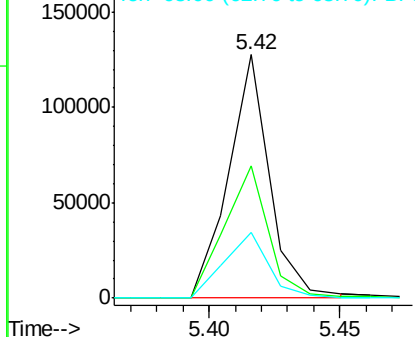
#5

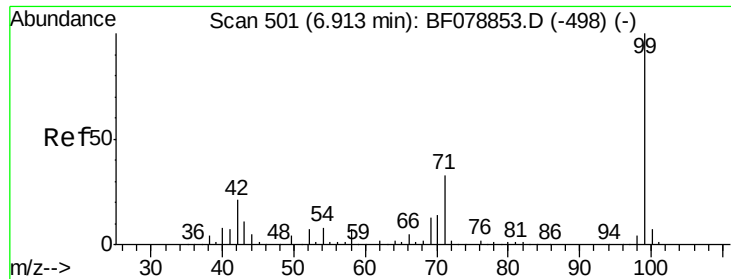
2-Fluorophenol
Concen: 51.54 ng m
RT: 5.42 min Scan# 370
Delta R.T. 0.00 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

Tgt 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 :

SB-34S

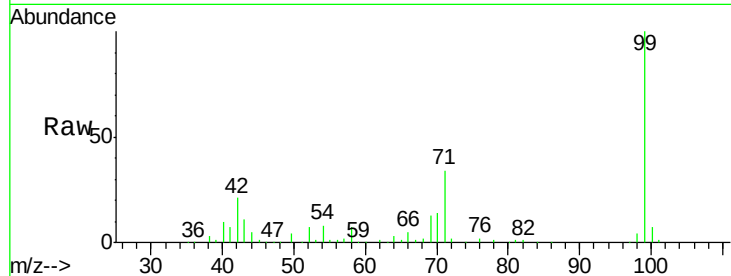
Tot Ion: 99 Resp: 176631

Ion Ratio Lower Upper

99 100

42 21.1 17.1 25.7

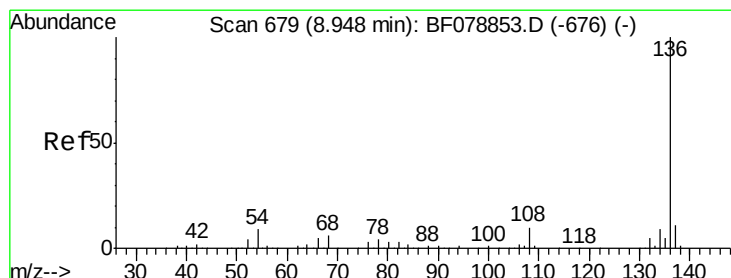
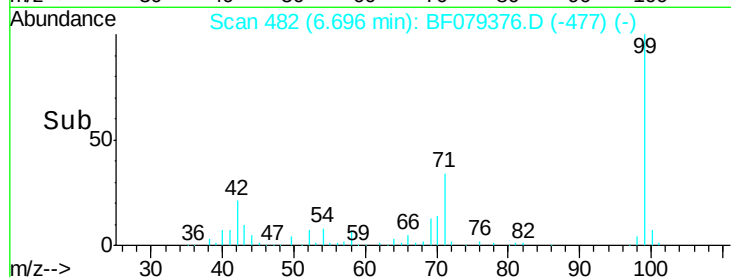
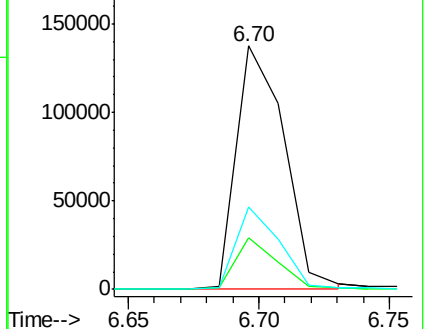
71 33.6 26.3 39.5



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

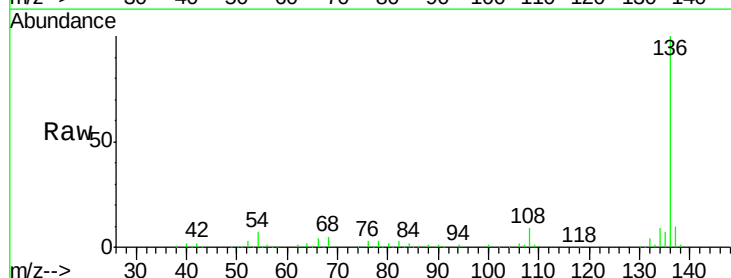
Ion Ratio Lower Upper

136 100

137 10.4 8.8 13.2

54 6.6 6.9 10.3#

68 4.8 4.9 7.3#

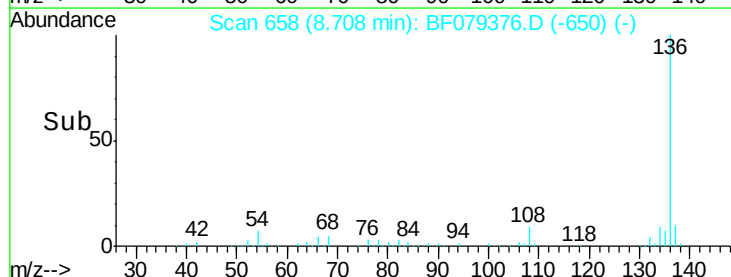
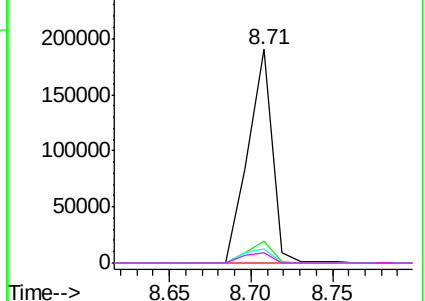


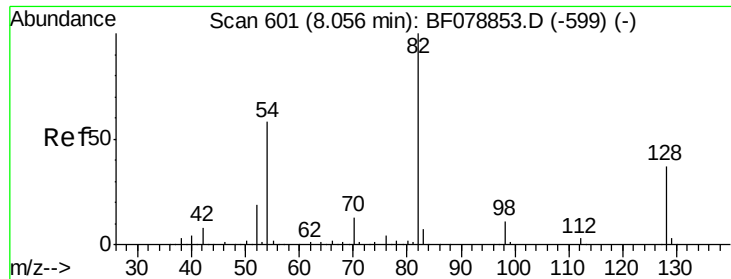
Abundance Ion 136.00 (135.70 to 136.70): E

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

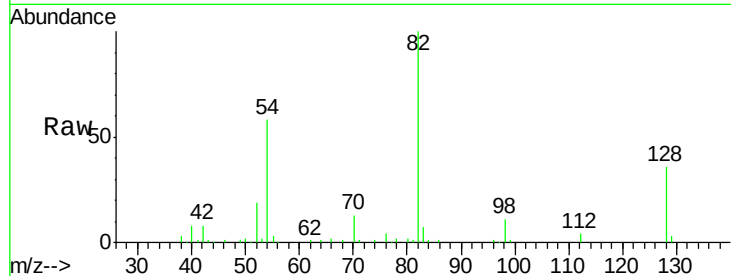




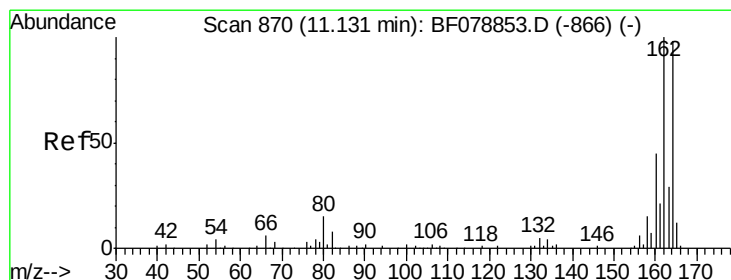
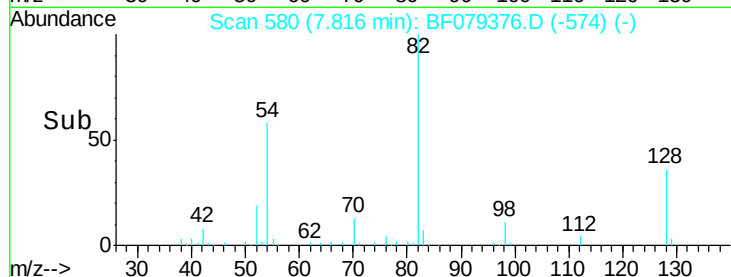
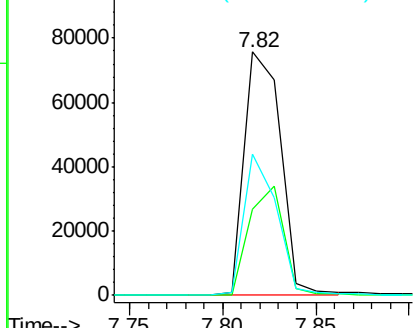
#23
 Nitrobenzene-d5
 Concen: 30.14 ng
 RT: 7.82 min Scan# 580
 Delta R.T. -0.01 min
 Lab File: BF079376.D
 Acq: 20 May 2015 9:45

Instrument :
 BNA_F
 ClientSampled :
 SB-34S

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

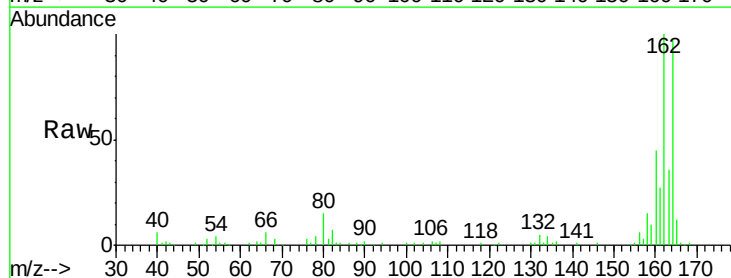


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

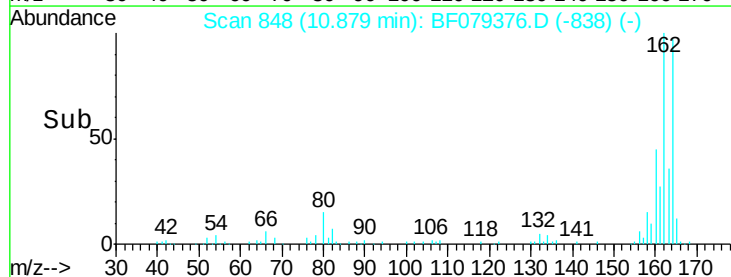
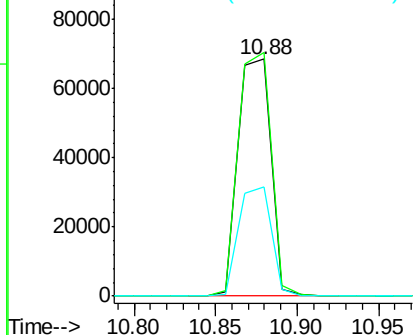


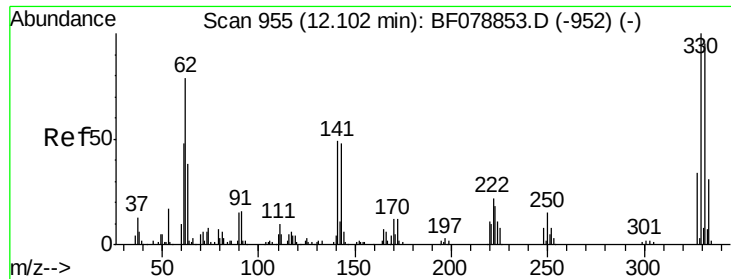
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.88 min Scan# 848
 Delta R.T. 0.00 min
 Lab File: BF079376.D
 Acq: 20 May 2015 9:45

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

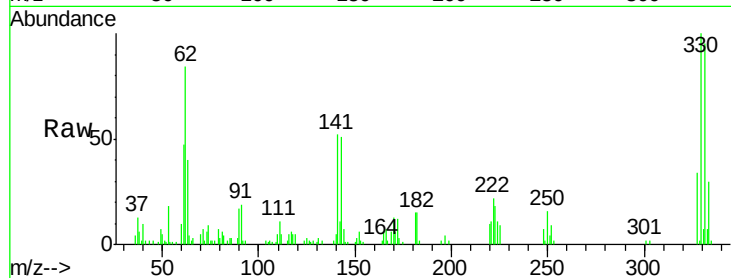




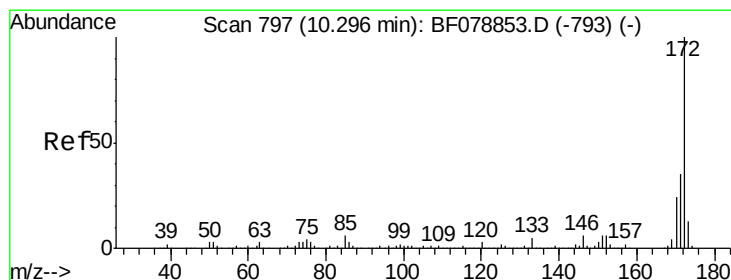
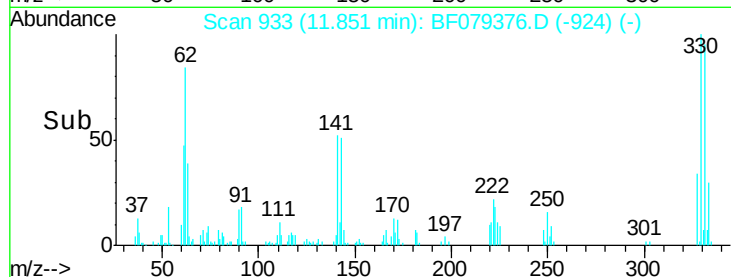
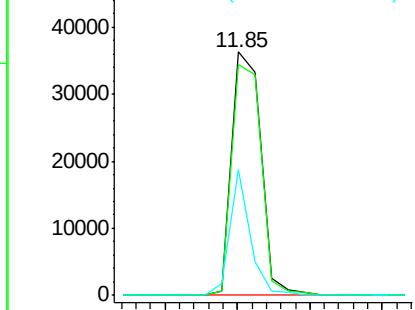
#41
 2,4,6-Tribromophenol
 Concen: 49.32 ng
 RT: 11.85 min Scan# 933
 Delta R.T. -0.01 min
 Lab File: BF079376.D
 Acq: 20 May 2015 9:45

Instrument :
 BNA_F
 ClientSampleId :
 SB-34S

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

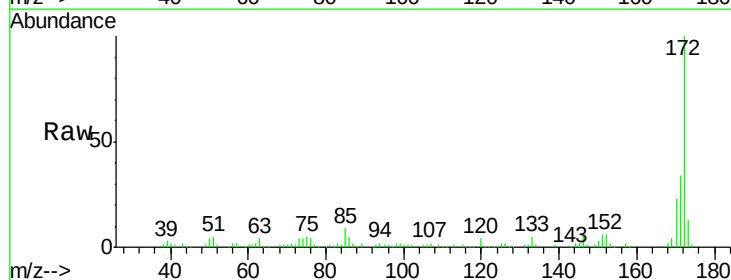


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

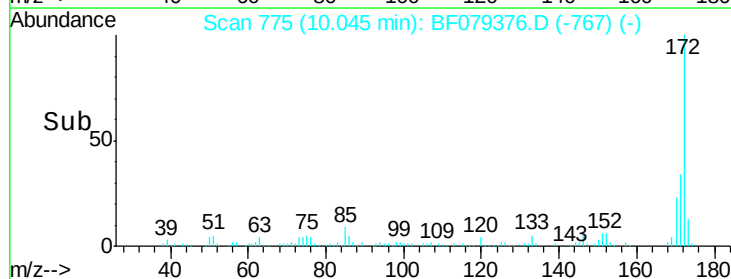
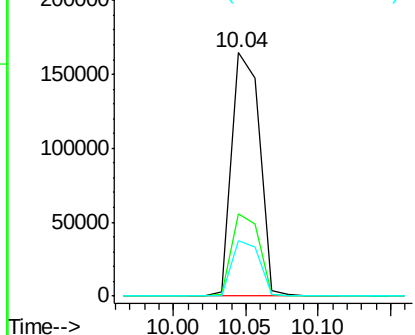


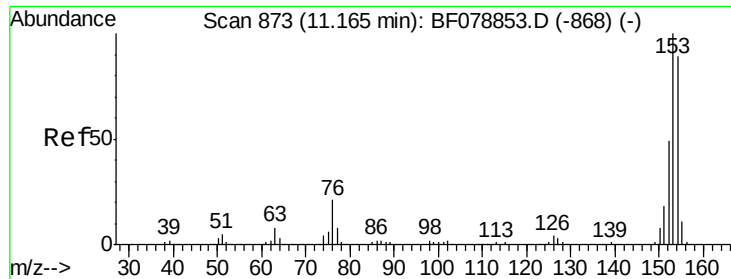
#44
 2-Fluorobiphenyl
 Concen: 32.34 ng
 RT: 10.04 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: BF079376.D
 Acq: 20 May 2015 9:45

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 :

SB-34S

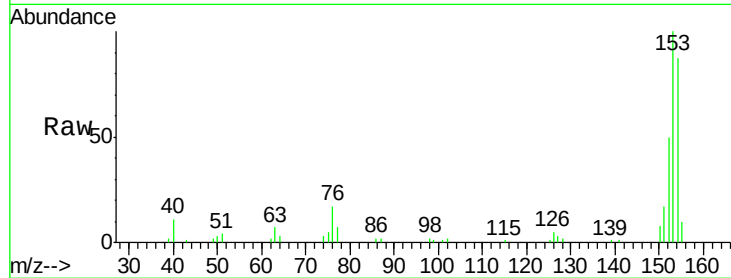
Tot Ion:154 Resp: 24676

Ion Ratio Lower Upper

154 100

153 115.4 90.2 135.2

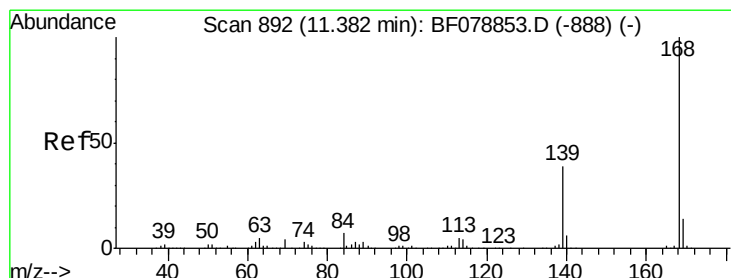
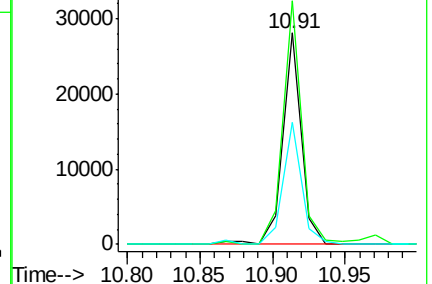
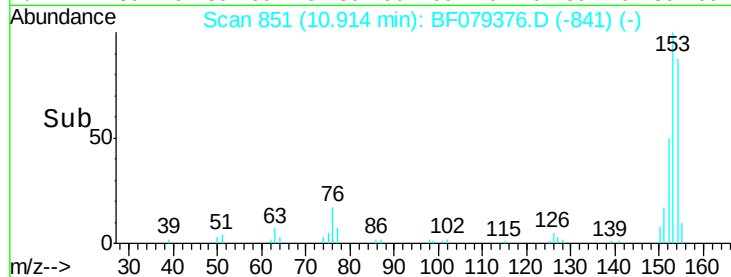
152 57.9 43.8 65.8



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

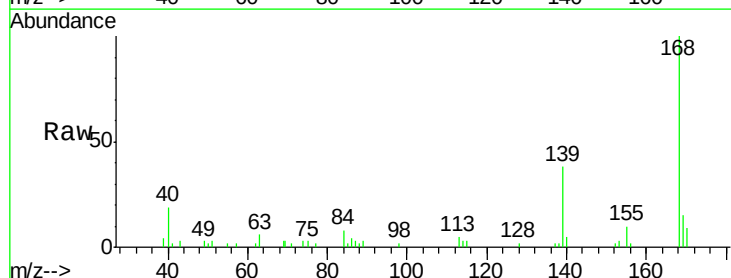
Tgt Ion:168 Resp: 18120

Ion Ratio Lower Upper

168 100

139 38.2 31.5 47.3

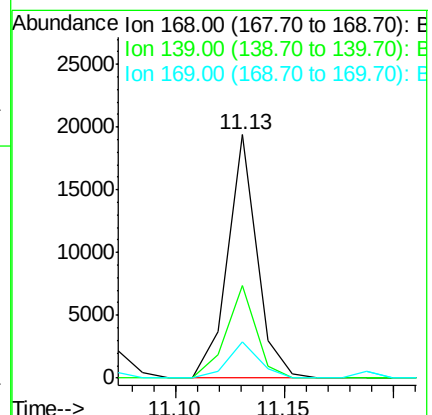
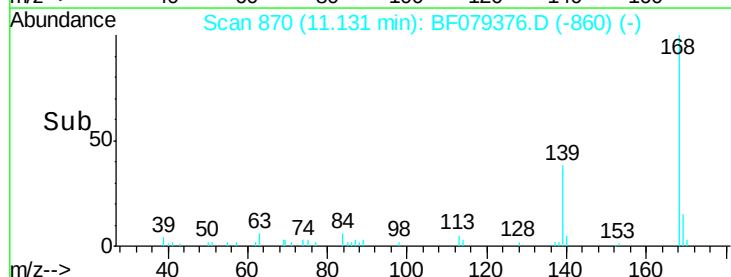
169 14.7 11.0 16.4

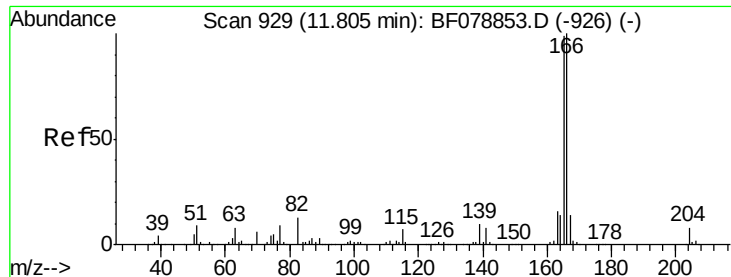


Abundance Ion 168.00 (167.70 to 168.70): E

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 :

SB-34S

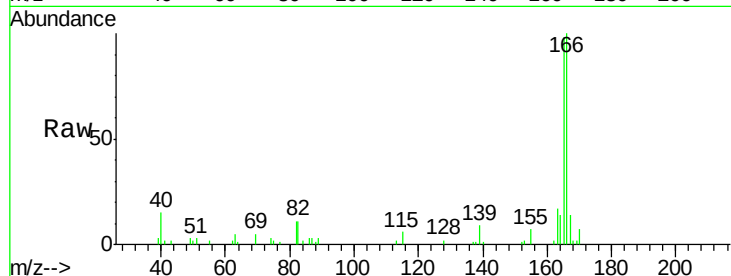
Tot Ion:166 Resp: 23464

Ion Ratio Lower Upper

166 100

165 98.1 79.5 119.3

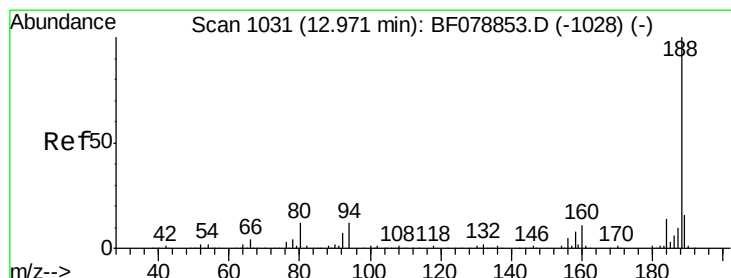
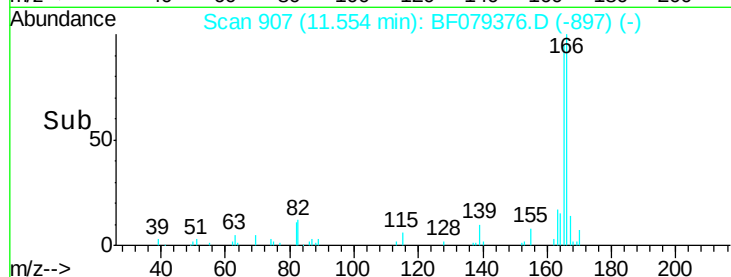
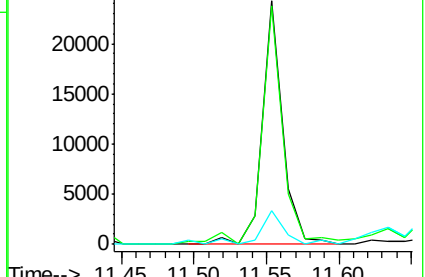
167 14.0 11.0 16.6



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

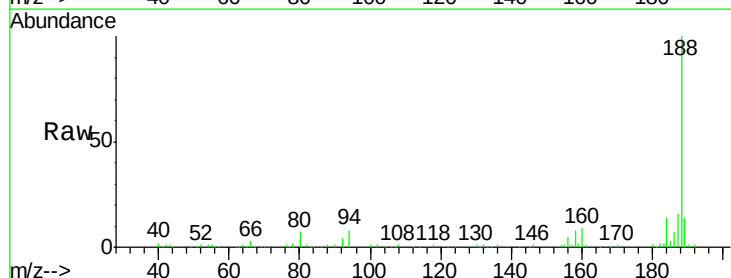
Tgt Ion:188 Resp: 182576

Ion Ratio Lower Upper

188 100

94 7.6 9.4 14.0#

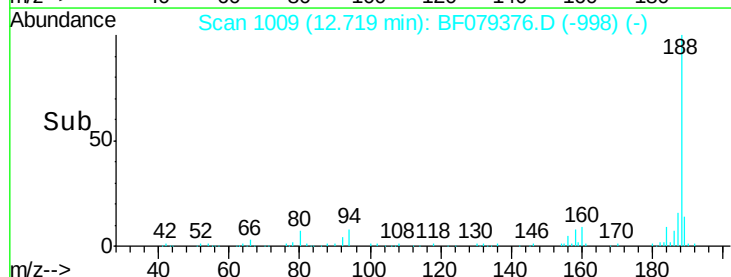
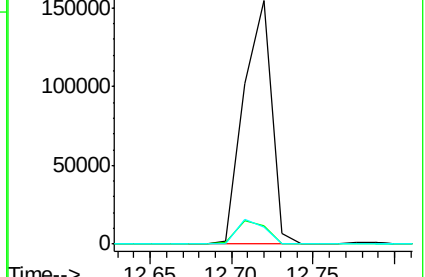
80 7.1 9.8 14.6#

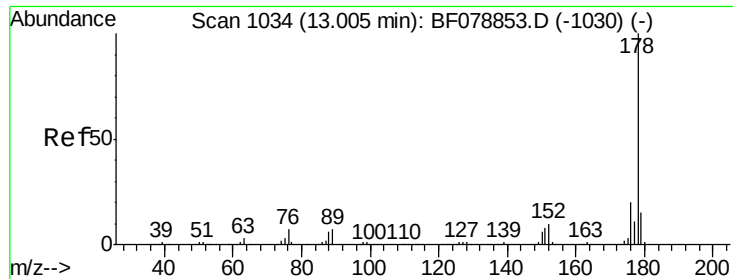


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

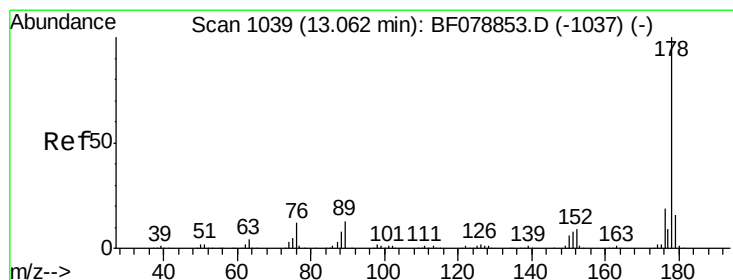
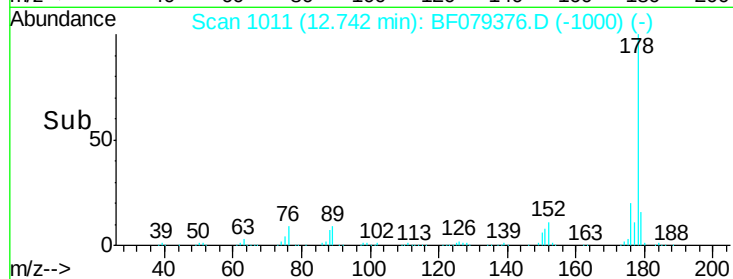
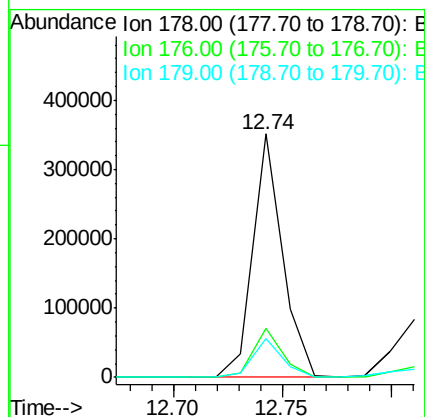
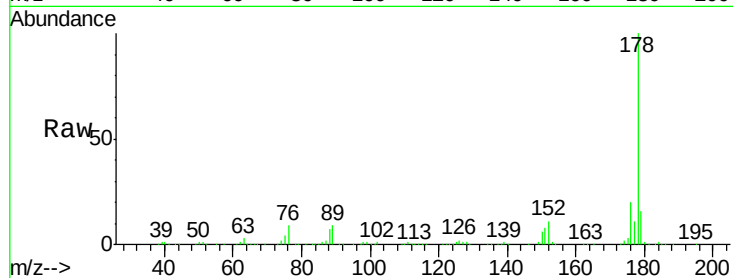




#70
Phenanthrene
Concen: 32.68 ng
RT: 12.74 min Scan# 1011
Delta R.T. 0.00 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

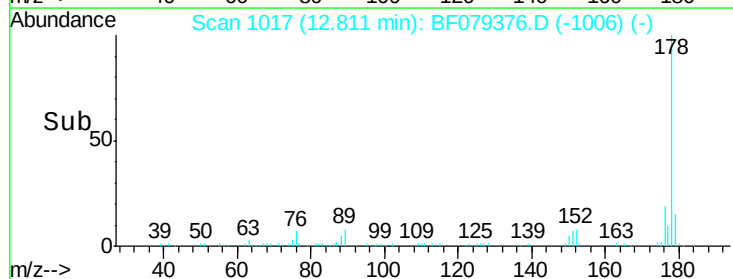
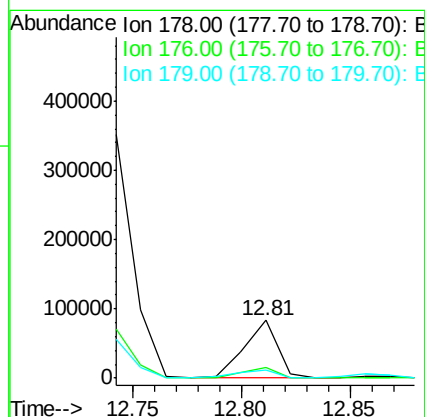
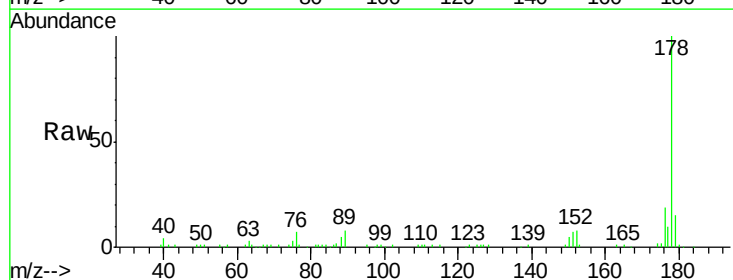
Instrument :
BNA_F
ClientSampleId :
SB-34S

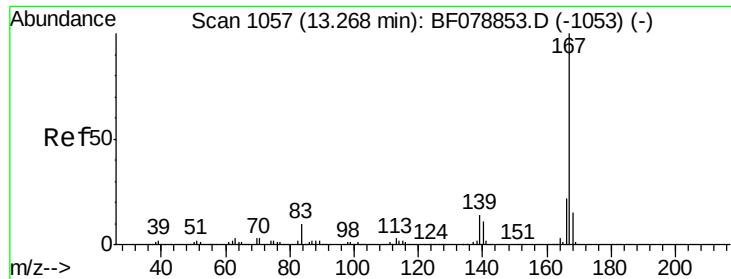
Tot Ion:178 Resp: 333771
Ion Ratio Lower Upper
178 100
176 20.2 15.9 23.9
179 15.8 12.2 18.4



#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 :

SB-34S

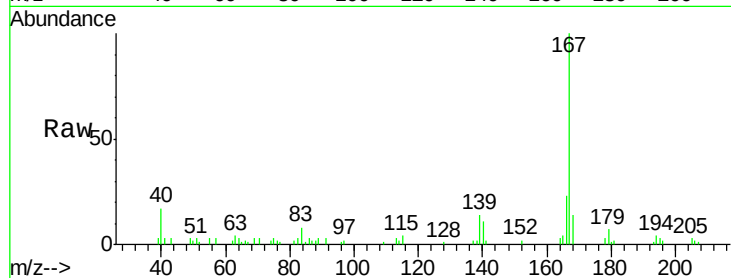
Tot Ion:167 Resp: 22144

Ion Ratio Lower Upper

167 100

166 22.9 17.5 26.3

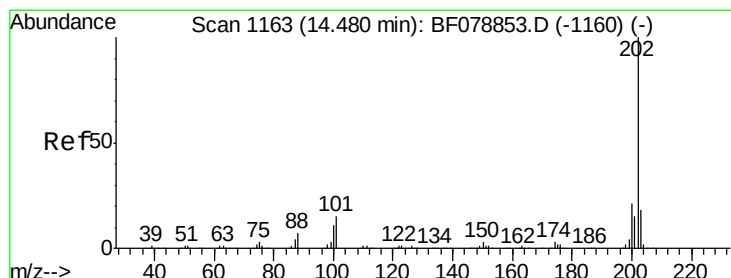
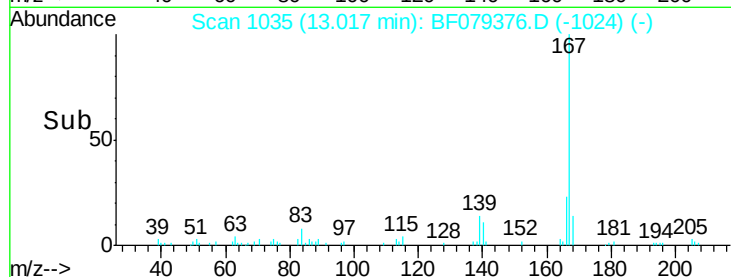
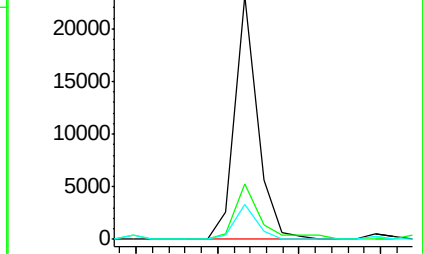
139 14.2 11.0 16.4



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 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

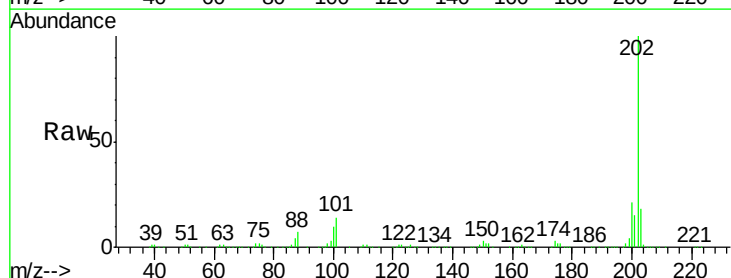
Tgt Ion:202 Resp: 525379

Ion Ratio Lower Upper

202 100

101 14.4 0.0 34.7

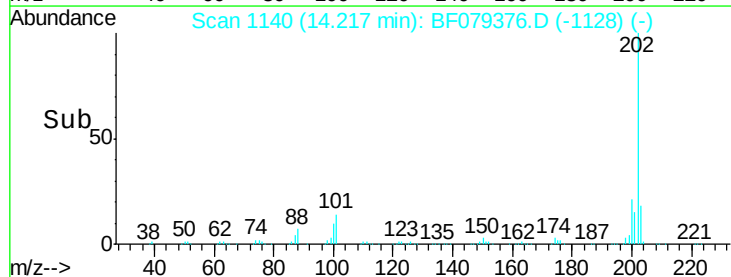
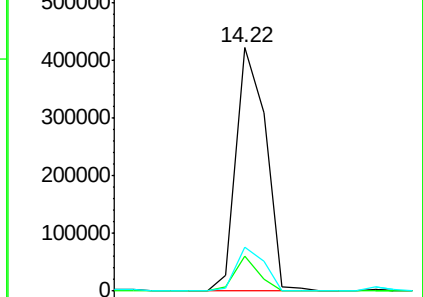
203 17.9 0.0 37.9

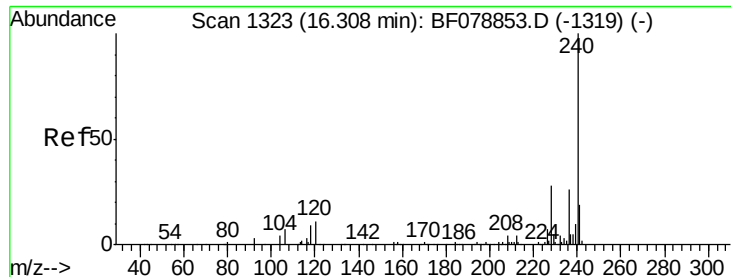


Abundance Ion 202.00 (201.70 to 202.70): E

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: 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 :

SB-34S

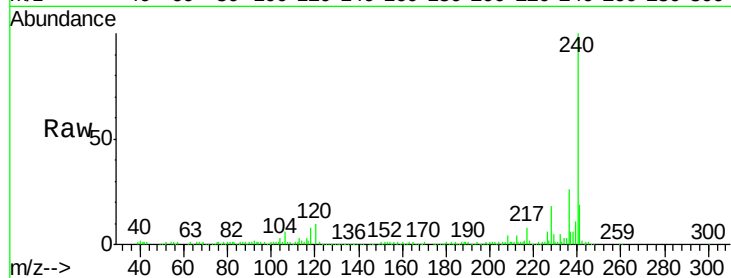
Tot Ion:240 Resp: 204685

Ion Ratio Lower Upper

240 100

120 9.7 8.6 12.8

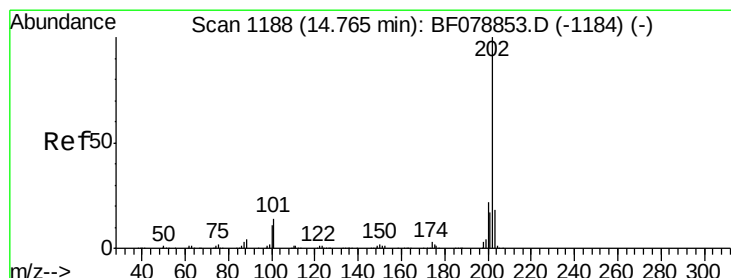
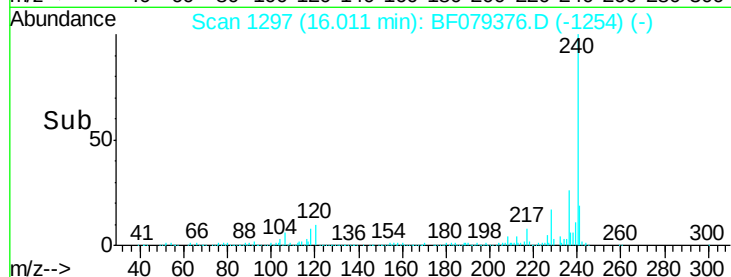
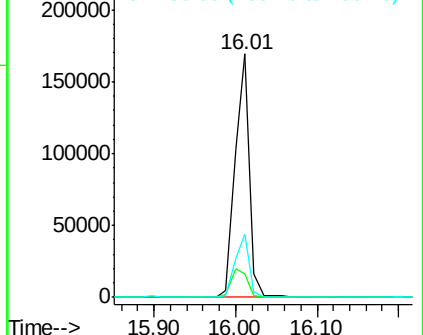
236 25.7 21.0 31.6



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

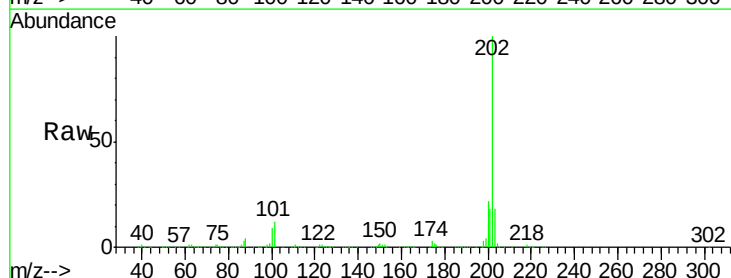
Tgt Ion:202 Resp: 561239

Ion Ratio Lower Upper

202 100

200 22.1 17.5 26.3

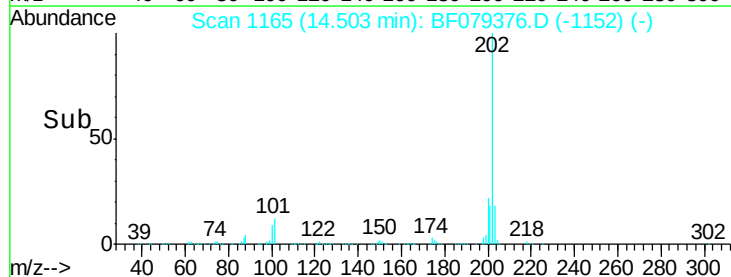
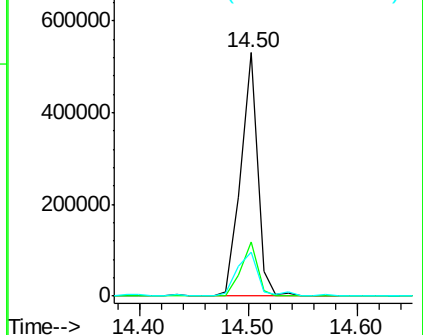
203 18.0 14.7 22.1

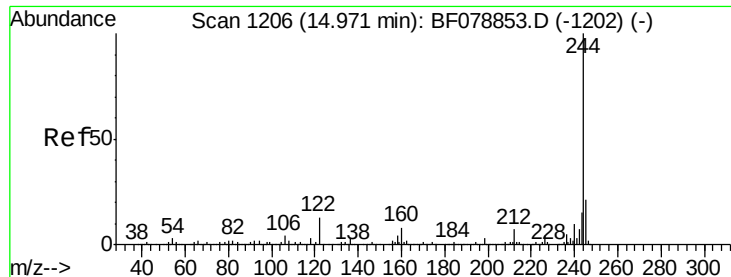


Abundance Ion 202.00 (201.70 to 202.70): E

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

ClientSampled :

SB-34S

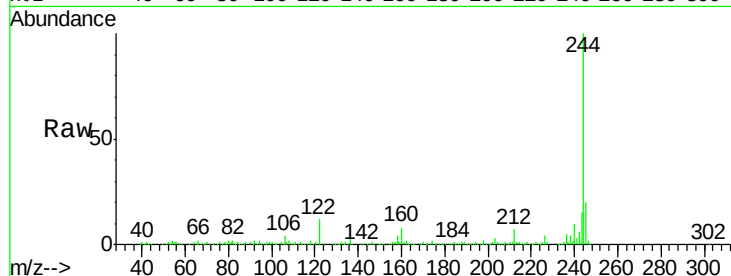
Tot Ion:244 Resp: 257104

Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

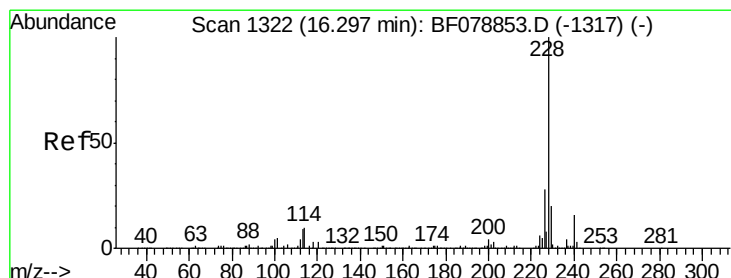
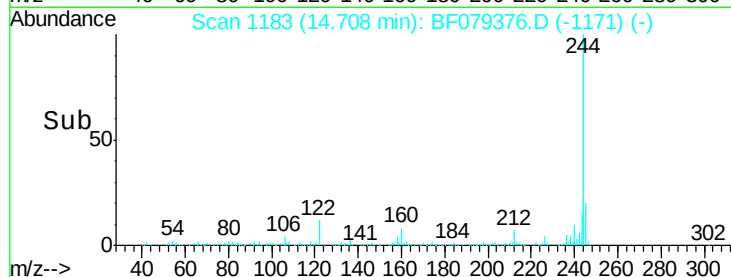
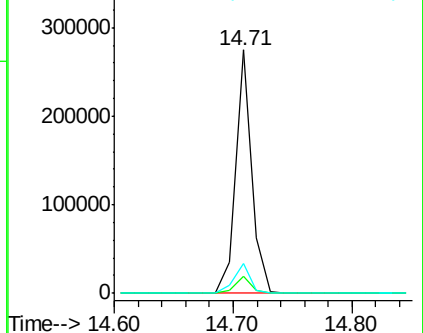
122 12.1 10.5 15.7



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

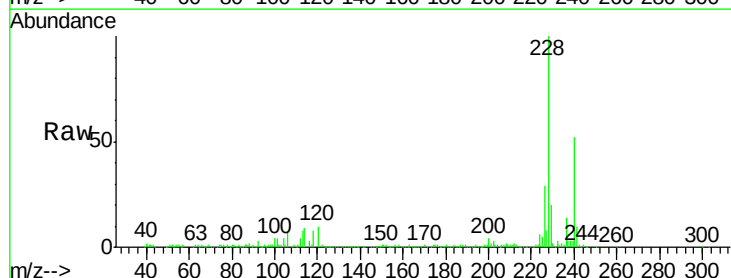
Tgt Ion:228 Resp: 278096

Ion Ratio Lower Upper

228 100

226 29.0 22.3 33.5

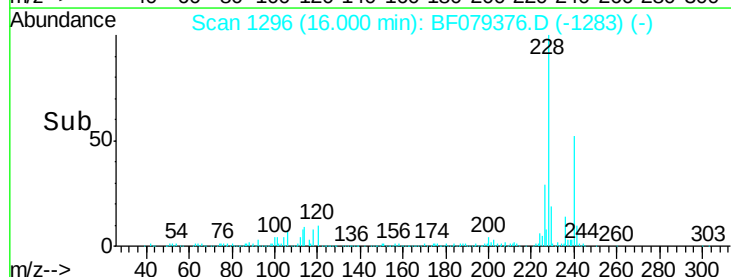
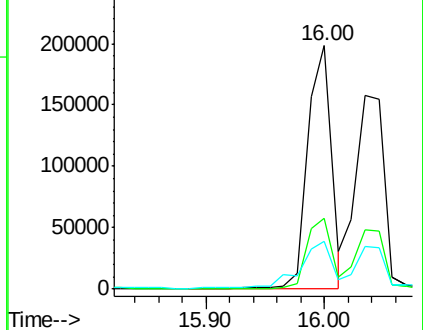
229 19.9 16.1 24.1

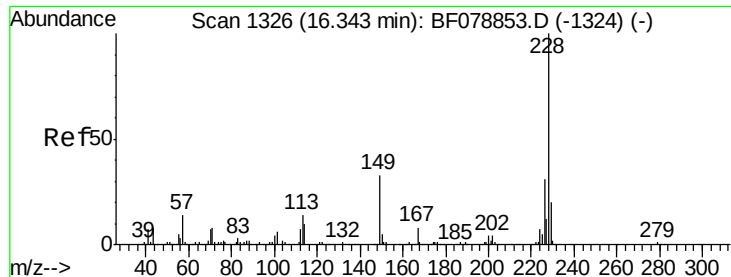


Abundance Ion 228.00 (227.70 to 228.70): E

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

ClientSampled :

SB-34S

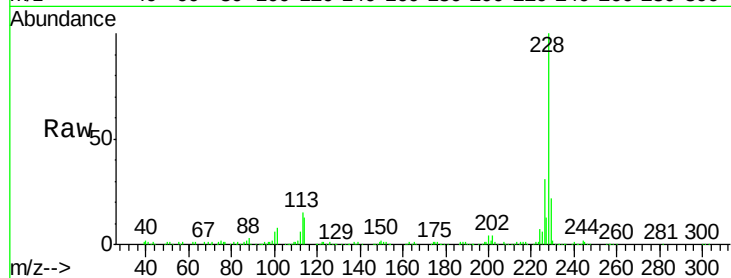
Tot Ion:228 Resp: 258923

Ion Ratio Lower Upper

228 100

226 30.8 24.8 37.2

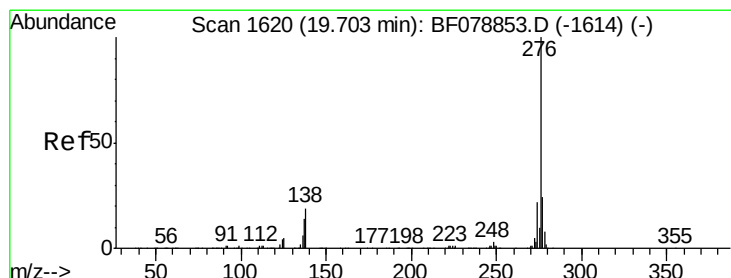
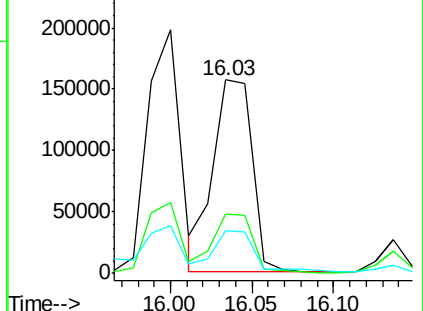
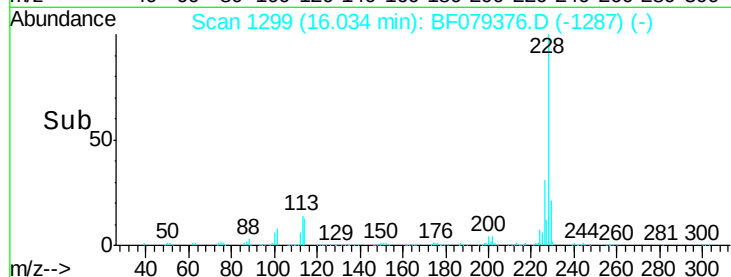
229 22.0 16.1 24.1



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

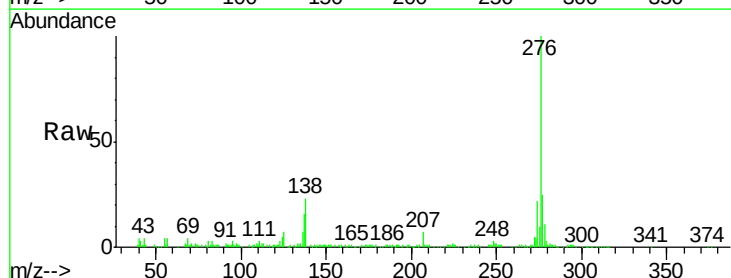
Tgt Ion:276 Resp: 160831

Ion Ratio Lower Upper

276 100

138 23.1 21.1 31.7

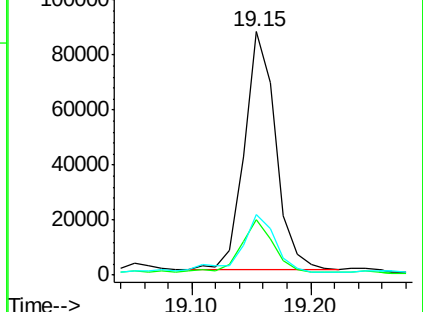
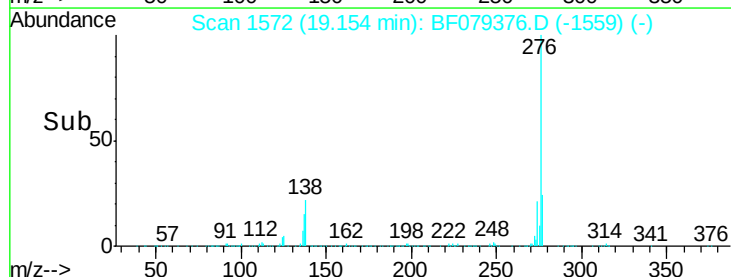
277 28.3 19.9 29.9

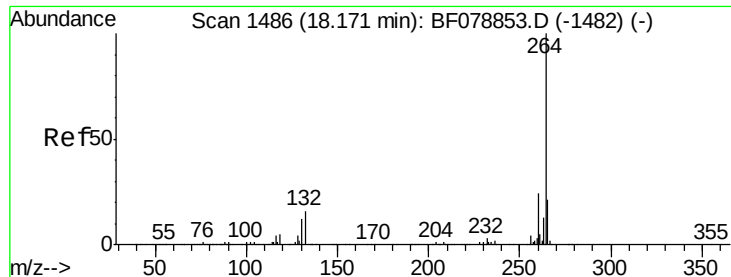


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

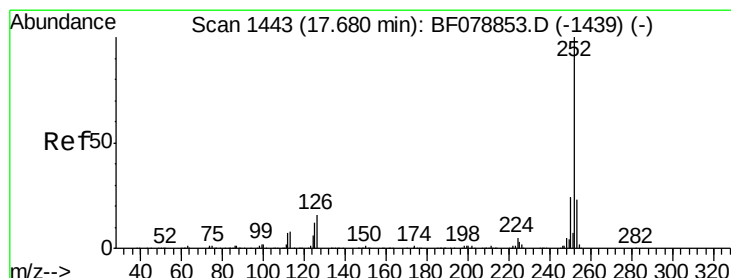
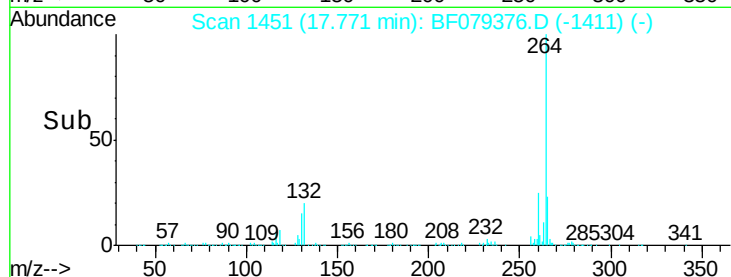
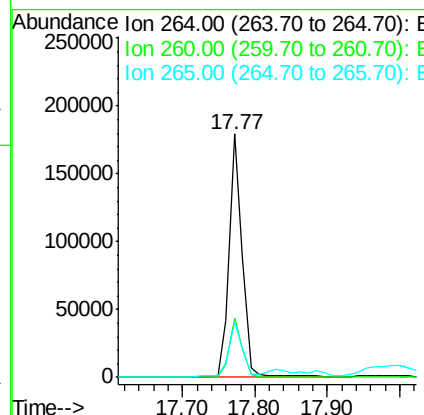
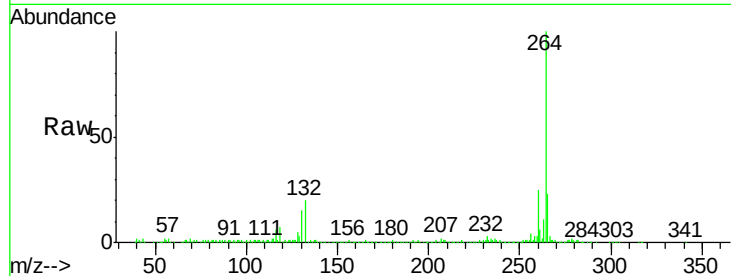




#86
Pervlene-d12
Concen: 20.00 ng
RT: 17.77 min Scan# 1451
Delta R.T. -0.05 min
Lab File: BF079376.D
Acq: 20 May 2015 9:45

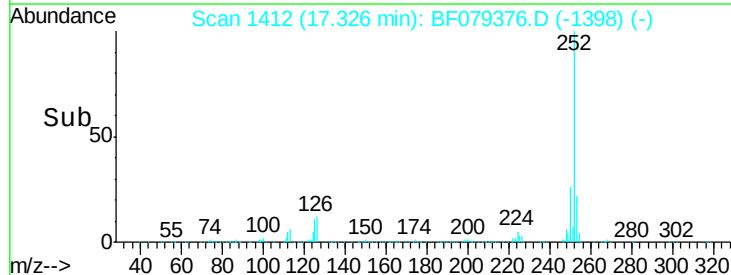
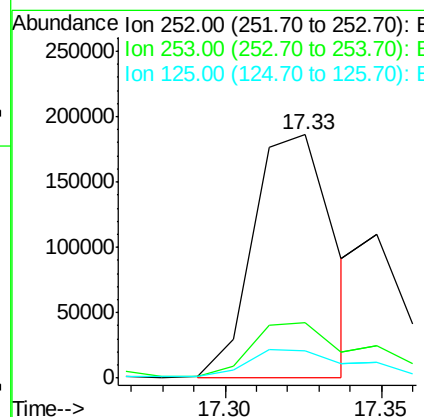
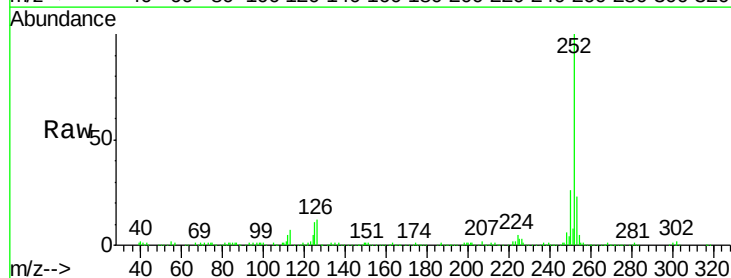
Instrument :
BNA_F
ClientSampleId :
SB-34S

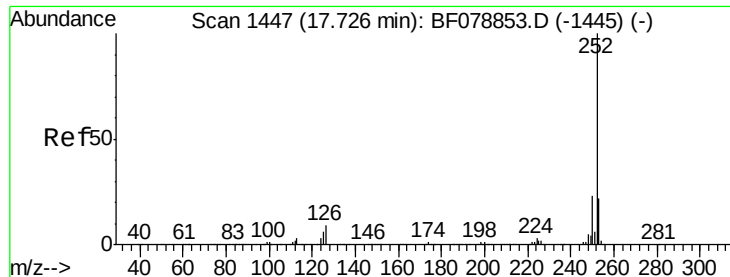
Tot Ion:264 Resp: 227709
Ion Ratio Lower Upper
264 100
260 24.6 19.2 28.8
265 22.8 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 26.66 ng m
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: 332314
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: 8.99 ng/mL

RT: 17.35 min Scan# 1414

Delta R.T. -0.03 min

Lab File: BF079376.D

Acq: 20 May 2015 9:45

Instrument :

BNA_F

ClientSampled :

SB-34S

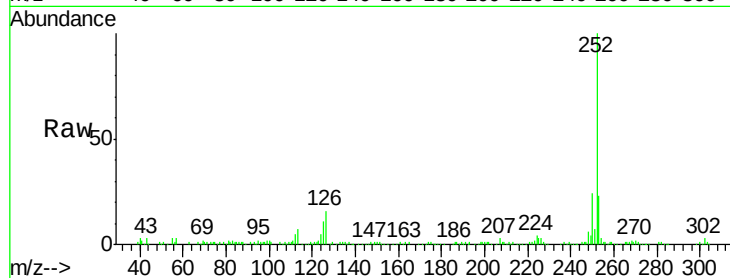
Tot Ion:252 Resp: 108514

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

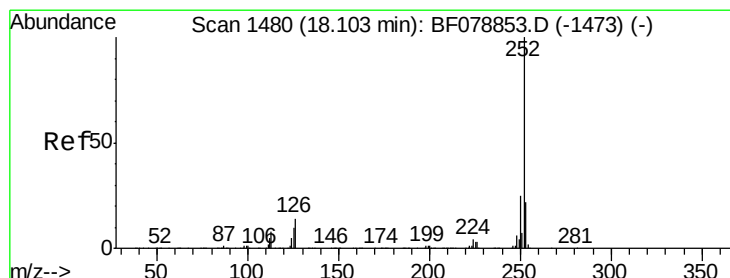
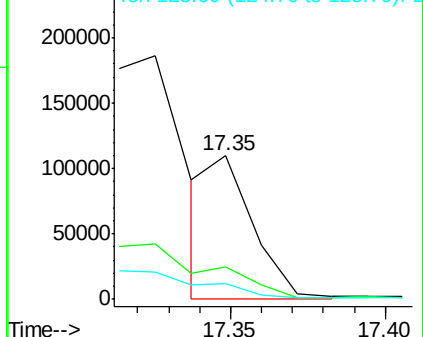
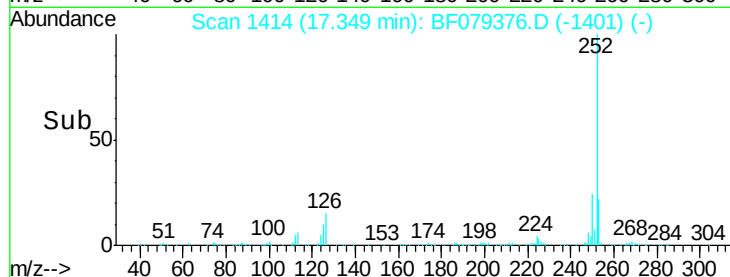
125 10.9 6.1 9.1#



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



#89

Benzo(a)pyrene

Concen: 23.79 ng/mL

RT: 17.71 min Scan# 1446

Delta R.T. -0.03 min

Lab File: BF079376.D

Acq: 20 May 2015 9:45

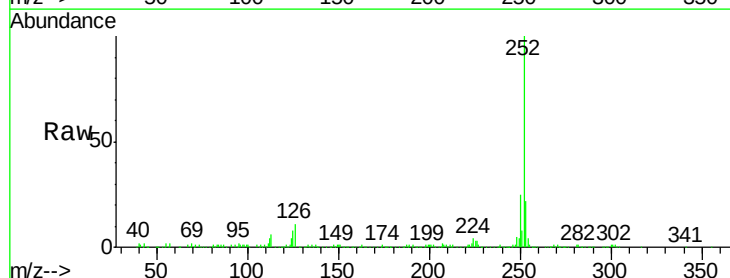
Tgt Ion:252 Resp: 272993

Ion Ratio Lower Upper

252 100

253 21.7 18.0 27.0

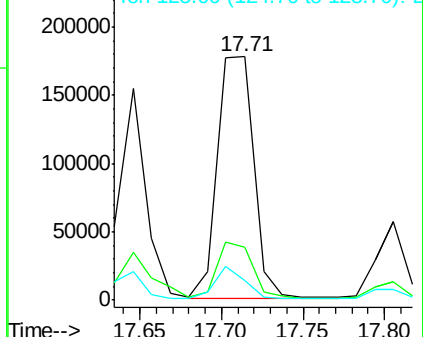
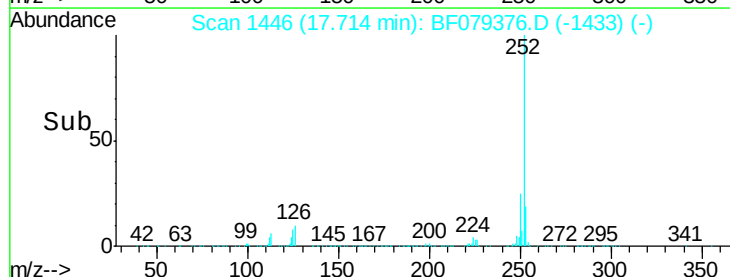
125 8.2 8.2 12.2

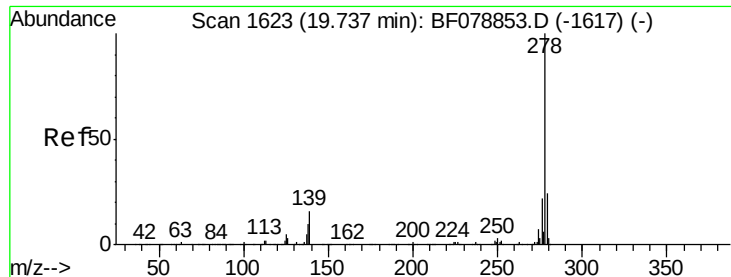


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 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 :

SB-34S

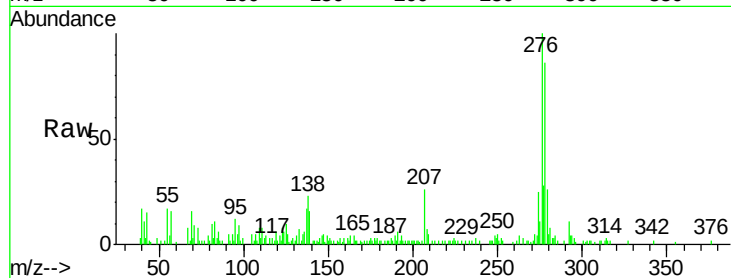
Tot Ion:278 Resp: 36941

Ion Ratio Lower Upper

278 100

139 18.1 13.1 19.7

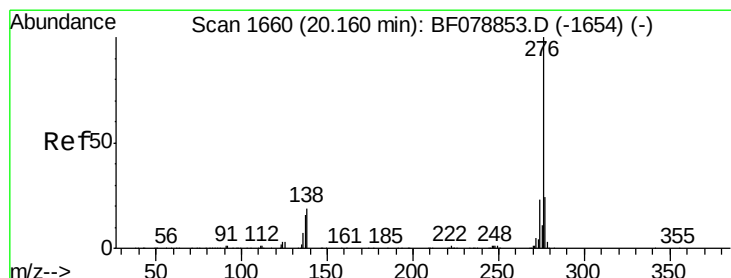
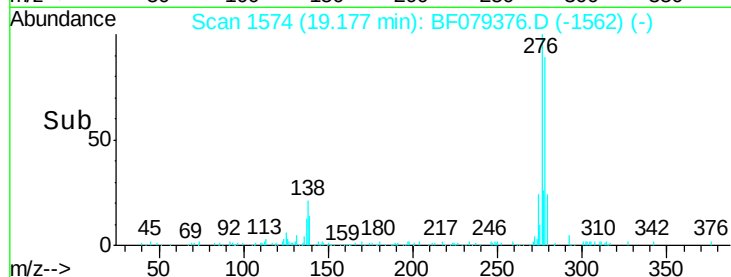
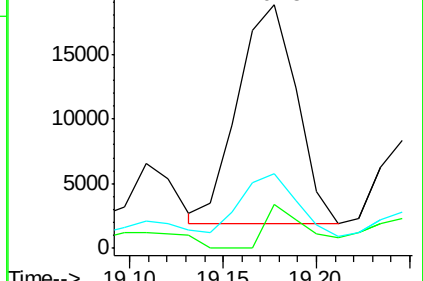
279 30.5 19.1 28.7#



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

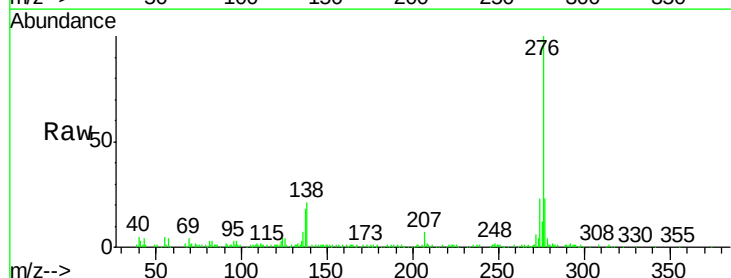
Tgt Ion:276 Resp: 164057

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

