

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\
 Data File : BF079362.D
 Acq On : 20 May 2015 3:03
 Operator : TP/IZ
 Sample : G2281-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-01

Quant Time: May 20 06:15:53 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	45130	20.00	ng	0.00
21) Naphthalene-d8	8.71	136	185912	20.00	ng	0.00
38) Acenaphthene-d10	10.87	164	93416	20.00	ng	-0.01
63) Phenanthrene-d10	12.71	188	181002	20.00	ng	-0.01
75) Chrysene-d12	16.00	240	204689	20.00	ng	-0.02
86) Perylene-d12	17.70	264	223238	20.00	ng	-0.11

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	265102m	101.12	ng	0.00
7) Phenol-d6	6.70	99	348563	100.58	ng	-0.01
23) Nitrobenzene-d5	7.82	82	200411	61.95	ng	-0.01
41) 2,4,6-Tribromophenol	11.85	330	109037	107.89	ng	-0.01
44) 2-Fluorobiphenyl	10.04	172	421366	62.84	ng	-0.01
78) Terphenyl-d14	14.71	244	522510	61.12	ng	-0.01

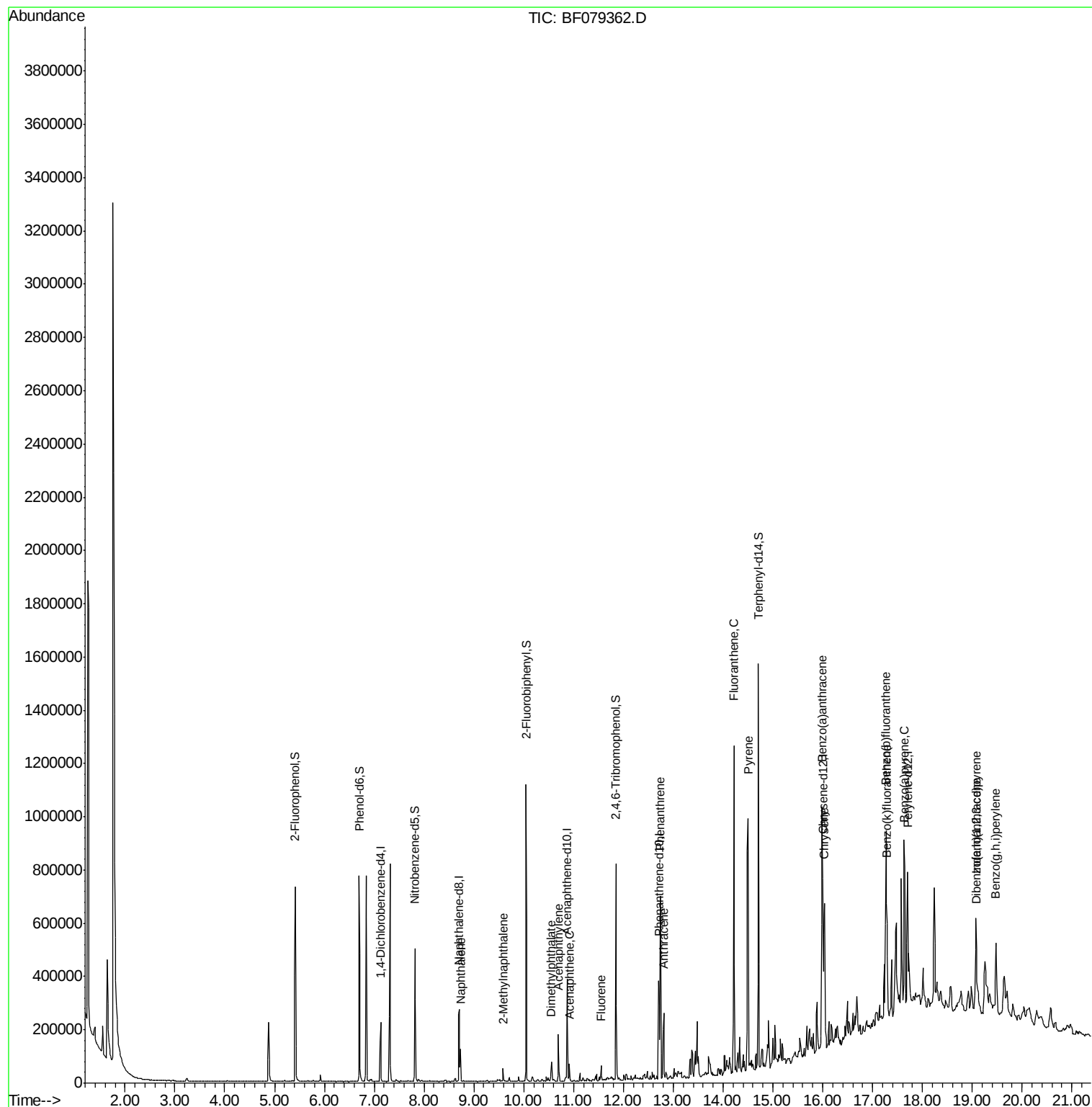
Target Compounds				Qvalue		
31) Naphthalene	8.73	128	57162	6.45	ng	98
37) 2-Methylnaphthalene	9.59	142	13511	2.20	ng	96
48) Acenaphthylene	10.70	152	78186	8.22	ng	98
49) Dimethylphthalate	10.56	163	30822	4.50	ng	# 99
51) Acenaphthene	10.91	154	15435	2.72	ng	99
57) Fluorene	11.55	166	21105	3.14	ng	99
70) Phenanthrene	12.74	178	266983	26.37	ng	99
71) Anthracene	12.81	178	119988	12.08	ng	99
74) Fluoranthene	14.22	202	545034	51.66	ng	98
77) Pyrene	14.50	202	533712	45.25	ng	99
80) Benzo(a)anthracene	15.99	228	362583m	32.35	ng	
82) Chrysene	16.03	228	264555	24.54	ng	98
85) Indeno(1,2,3-cd)pyrene	19.07	276	247709	18.03	ng	95
87) Benzo(b)fluoranthene	17.27	252	407720m	33.37	ng	
88) Benzo(k)fluoranthene	17.28	252	180762m	15.28	ng	
89) Benzo(a)pyrene	17.65	252	345568	30.71	ng	# 98
90) Dibenzo(a,h)anthracene	19.09	278	51060m	4.27	ng	
91) Benzo(g,h,i)perylene	19.47	276	237091	19.78	ng	# 95

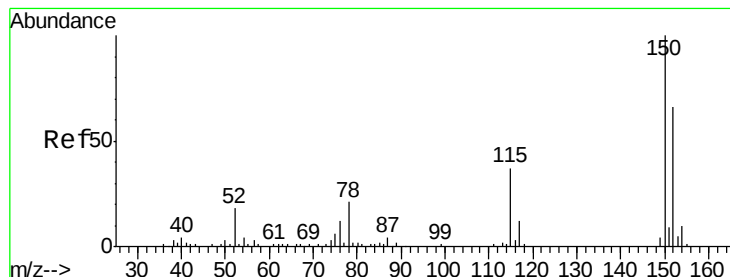
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA_F

ClientSampleId :

SB-01

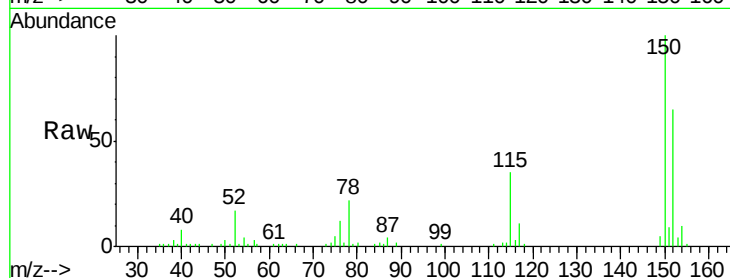
Tot Ion:152 Resp: 45130

Ion Ratio Lower Upper

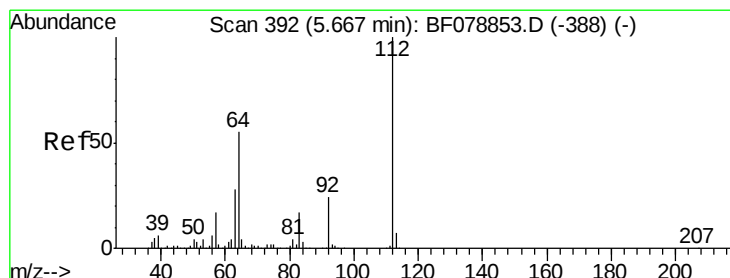
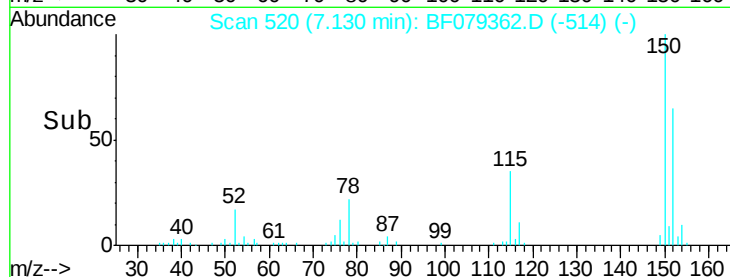
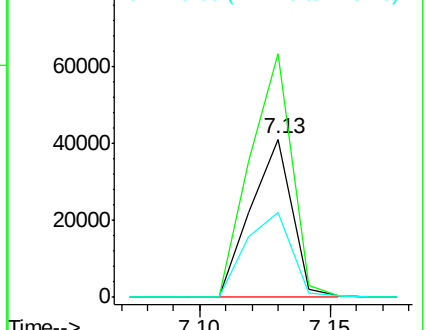
152 100

150 153.6 123.8 185.8

115 53.5 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: 101.12 ng m

RT: 5.42 min Scan# 370

Delta R.T. -0.00 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

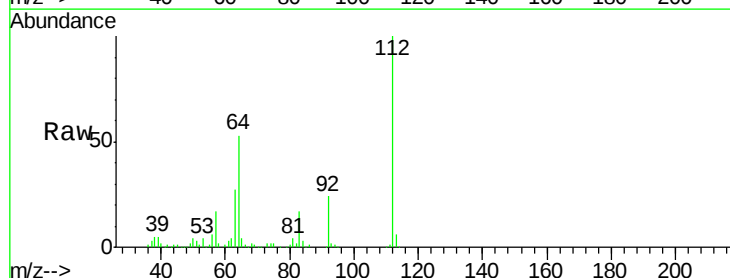
Tgt Ion:112 Resp: 265102

Ion Ratio Lower Upper

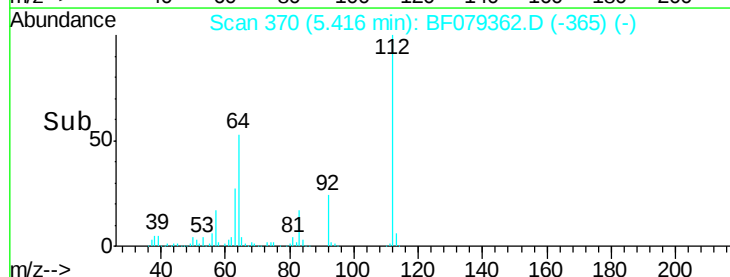
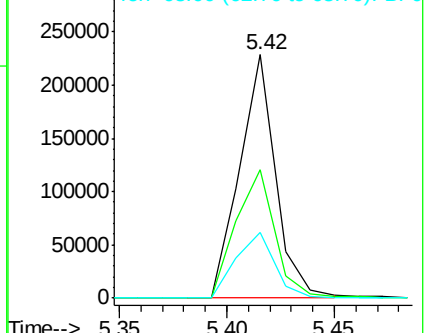
112 100

64 52.8 44.2 66.2

63 26.8 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: 100.58 ng

RT: 6.70 min Scan# 482

Delta R.T. -0.01 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA_F

ClientSampleId :

SB-01

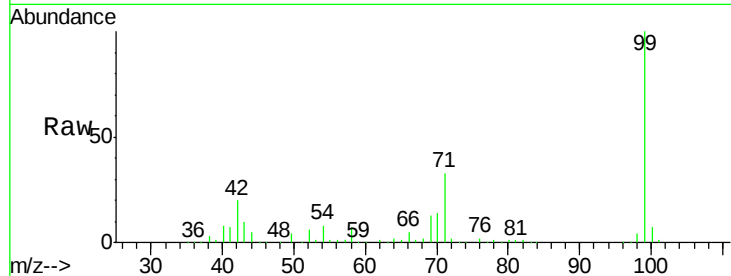
Tot Ion: 99 Resp: 348563

Ion Ratio Lower Upper

99 100

42 20.0 17.1 25.7

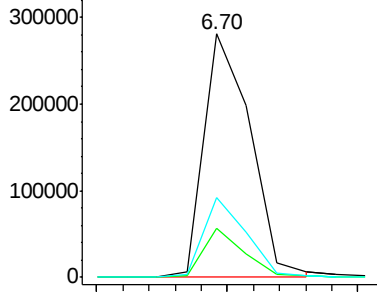
71 32.7 26.3 39.5



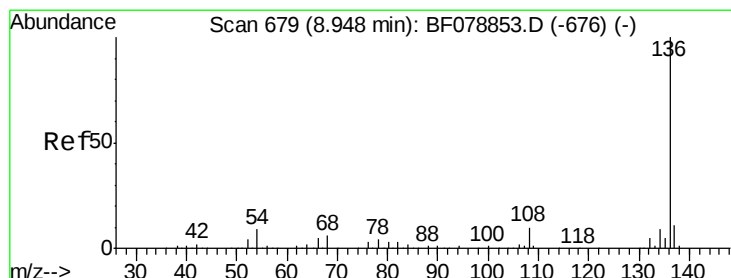
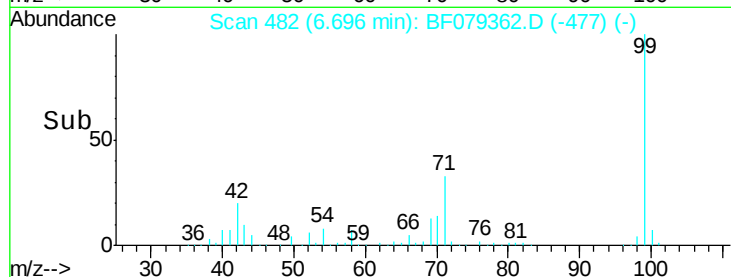
Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



Time--> 6.65 6.70 6.75



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.71 min Scan# 658

Delta R.T. -0.00 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Tgt Ion: 136 Resp: 185912

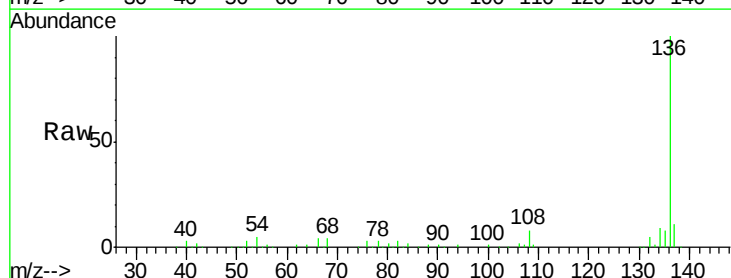
Ion Ratio Lower Upper

136 100

137 10.6 8.8 13.2

54 5.2 6.9 10.3#

68 4.3 4.9 7.3#

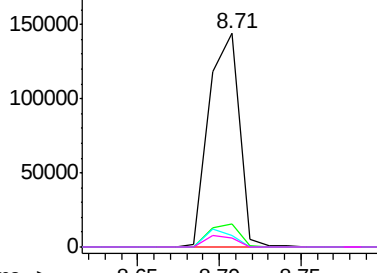


Abundance Ion 136.00 (135.70 to 136.70): E

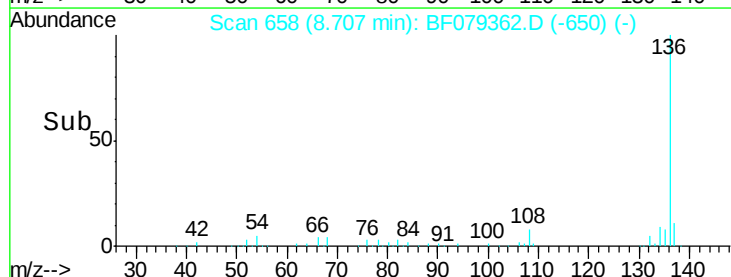
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time--> 8.65 8.70 8.75

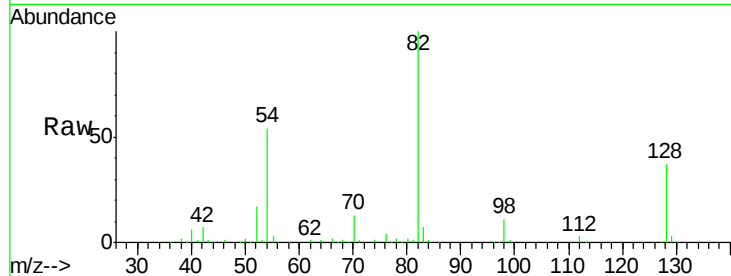




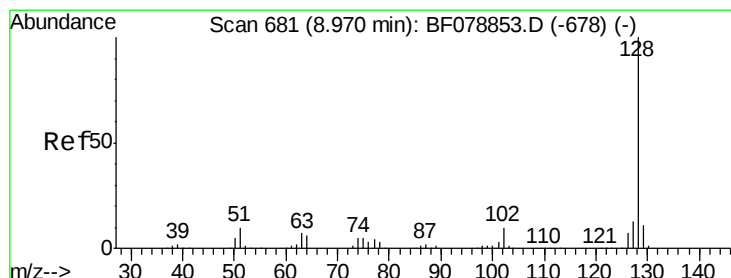
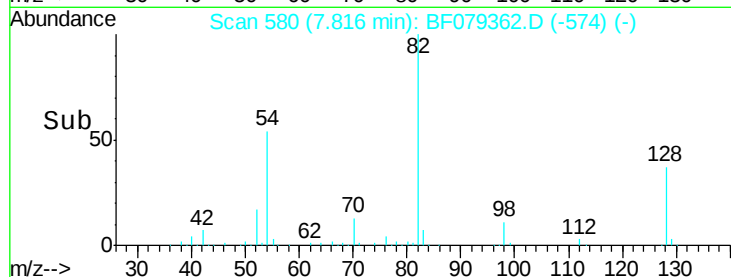
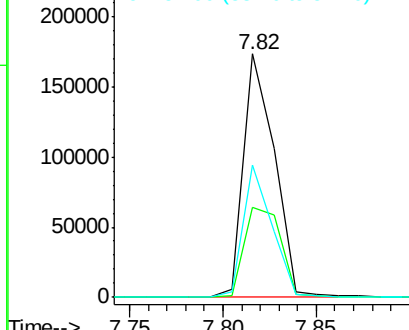
#23
 Nitrobenzene-d5
 Concen: 61.95 ng
 RT: 7.82 min Scan# 580
 Delta R.T. -0.01 min
 Lab File: BF079362.D
 Acq: 20 May 2015 3:03

Instrument :
 BNA_F
 ClientSampleId :
 SB-01

Tot Ion: 82 Resp: 200411
 Ion Ratio Lower Upper
 82 100
 128 37.2 29.7 44.5
 54 54.5 46.2 69.4

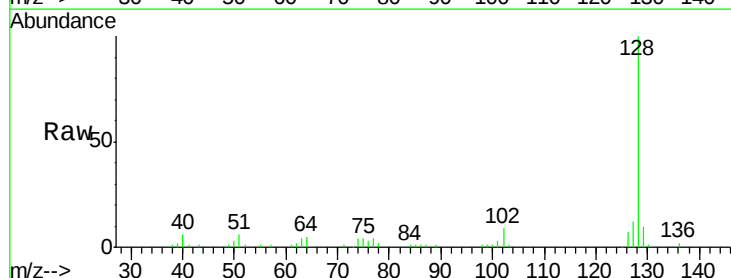


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

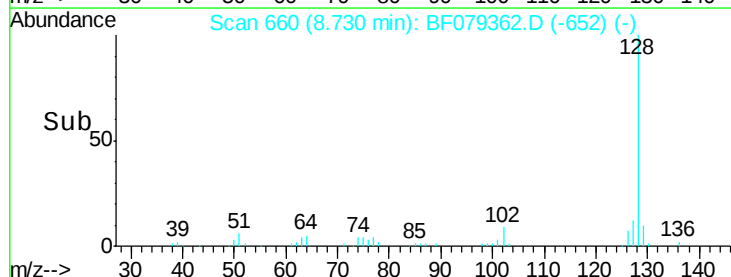
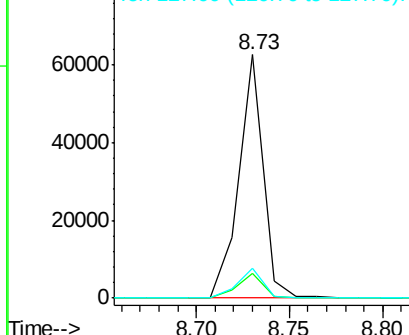


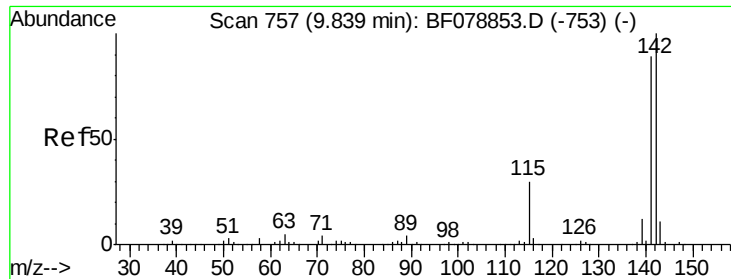
#31
 Naphthalene
 Concen: 6.45 ng
 RT: 8.73 min Scan# 660
 Delta R.T. -0.00 min
 Lab File: BF079362.D
 Acq: 20 May 2015 3:03

Tgt Ion: 128 Resp: 57162
 Ion Ratio Lower Upper
 128 100
 129 10.4 9.2 13.8
 127 12.2 10.3 15.5



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

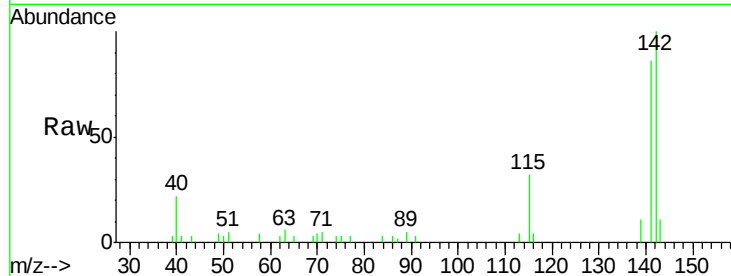




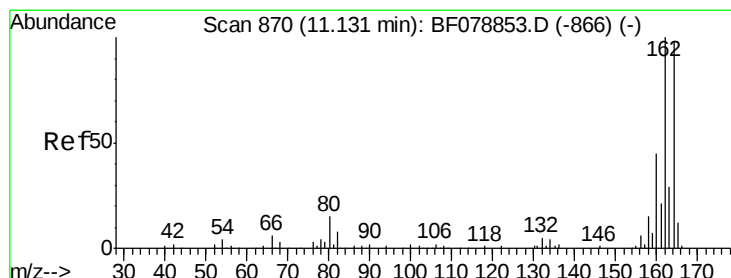
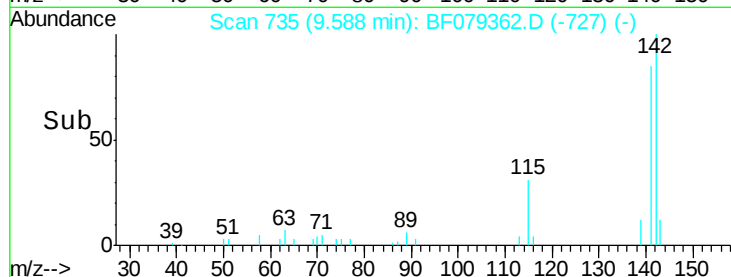
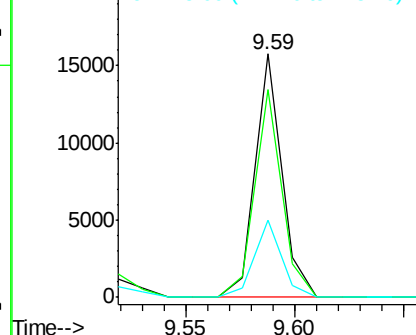
#37
2-Methylnaphthalene
Concen: 2.20 ng
RT: 9.59 min Scan# 735
Delta R.T. -0.00 min
Lab File: BF079362.D
Acq: 20 May 2015 3:03

Instrument :
BNA_F
ClientSampleId :
SB-01

Tot Ion:142 Resp: 13511
Ion Ratio Lower Upper
142 100
141 85.6 71.6 107.4
115 31.7 24.2 36.4

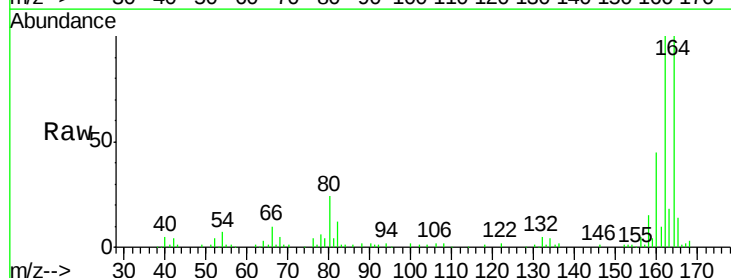


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

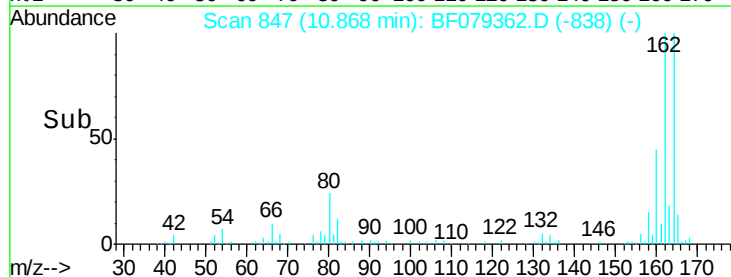
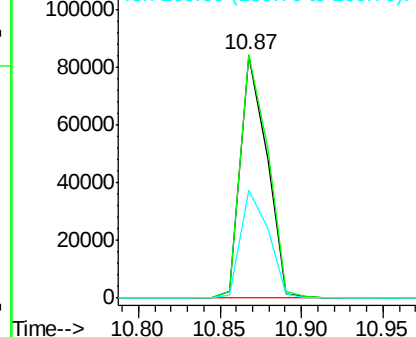


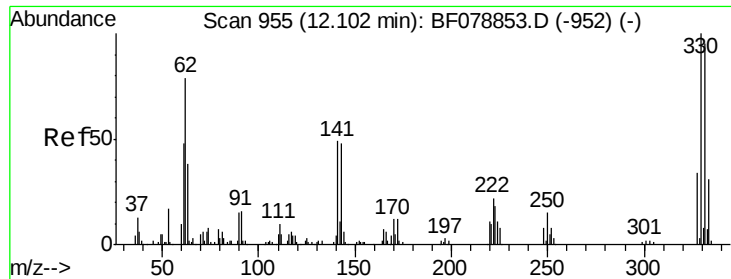
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.87 min Scan# 847
Delta R.T. -0.01 min
Lab File: BF079362.D
Acq: 20 May 2015 3:03

Tgt Ion:164 Resp: 93416
Ion Ratio Lower Upper
164 100
162 100.5 81.4 122.0
160 44.8 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

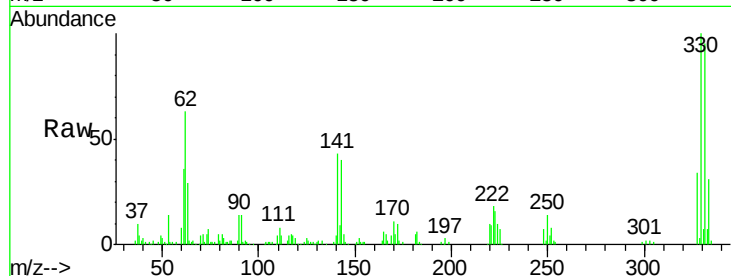




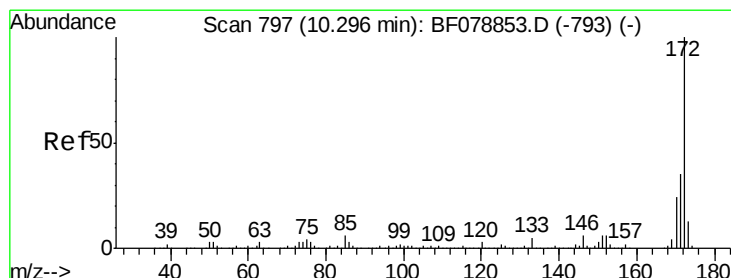
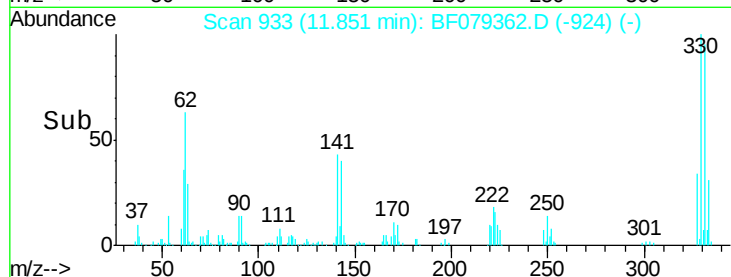
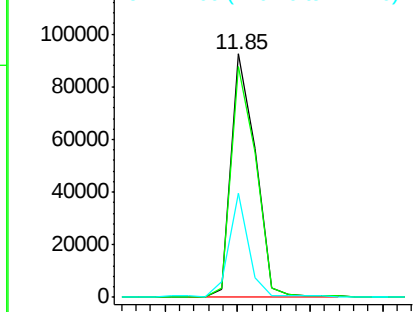
#41
 2,4,6-Tribromophenol
 Concen: 107.89 ng
 RT: 11.85 min Scan# 933
 Delta R.T. -0.01 min
 Lab File: BF079362.D
 Acq: 20 May 2015 3:03

Instrument :
 BNA_F
 ClientSampleId :
 SB-01

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.9	115.3
141	35.5	27.8	41.8

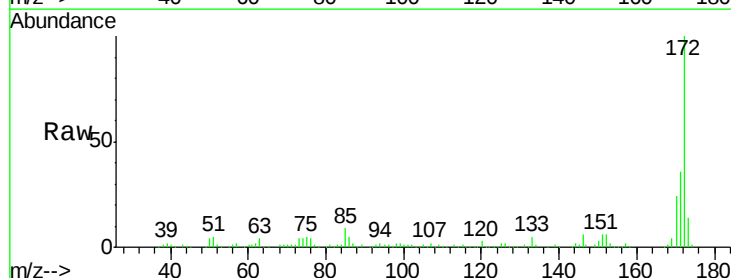


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

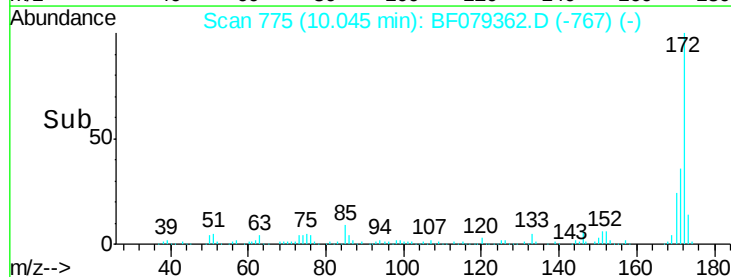
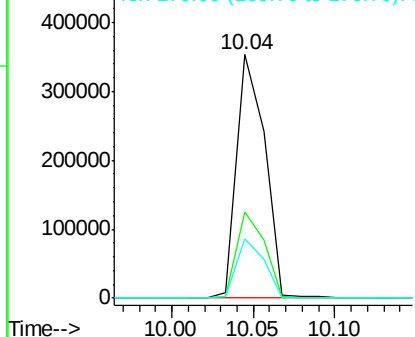


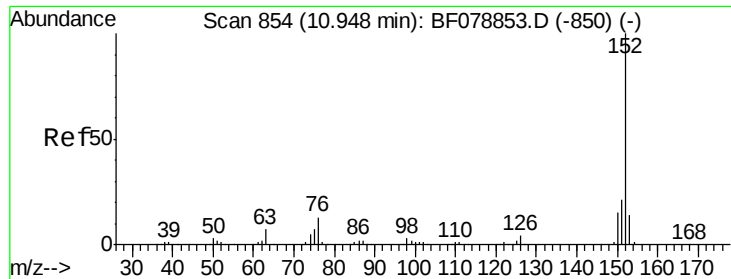
#44
 2-Fluorobiphenyl
 Concen: 62.84 ng
 RT: 10.04 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: BF079362.D
 Acq: 20 May 2015 3:03

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.3	42.5
170	24.3	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





#48

Acenaphthylene

Concen: 8.22 ng

RT: 10.70 min Scan# 832

Delta R.T. -0.01 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA_F

ClientSampled :

SB-01

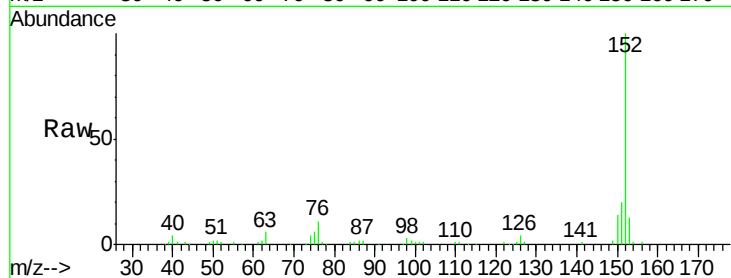
Tot Ion:152 Resp: 78186

Ion Ratio Lower Upper

152 100

151 19.7 16.6 24.8

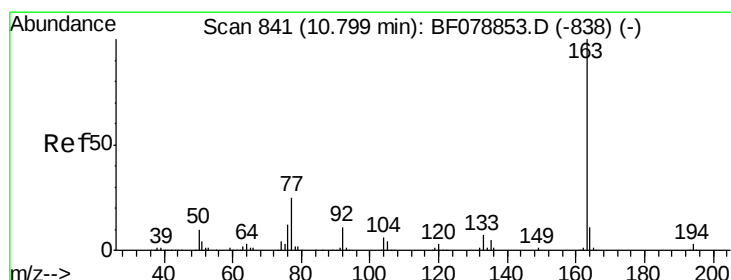
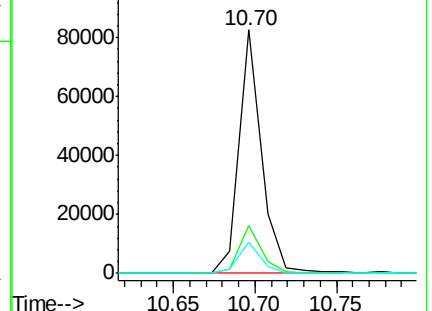
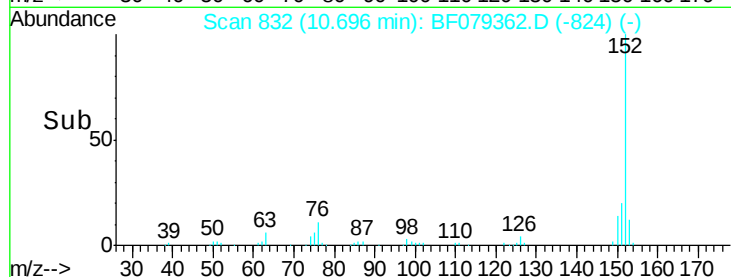
153 12.7 11.0 16.6



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



#49

Dimethylphthalate

Concen: 4.50 ng

RT: 10.56 min Scan# 820

Delta R.T. -0.01 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

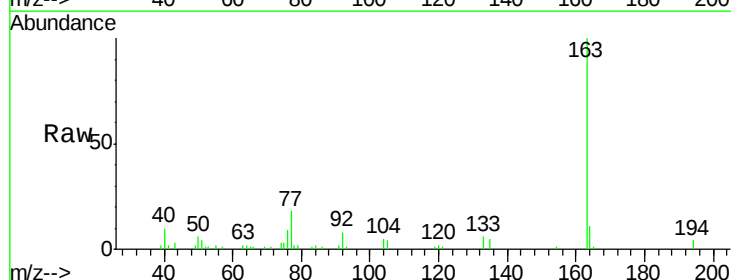
Tgt Ion:163 Resp: 30822

Ion Ratio Lower Upper

163 100

194 3.6 2.4 3.6#

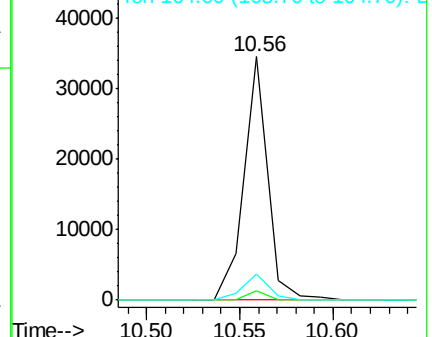
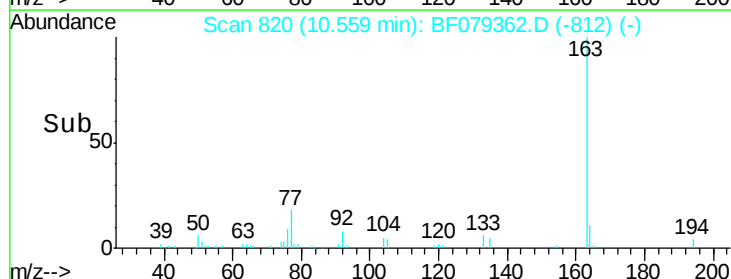
164 10.5 8.6 12.8

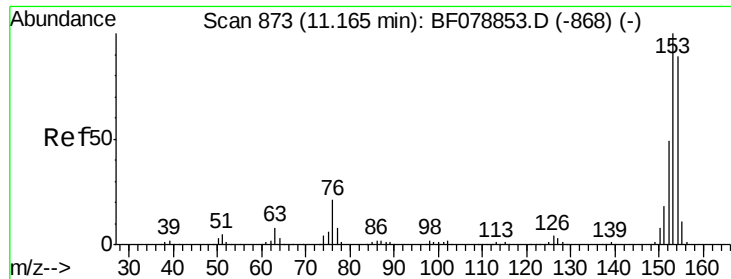


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.72 ng

RT: 10.91 min Scan# 851

Delta R.T. -0.00 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA_F

ClientSampleId :

SB-01

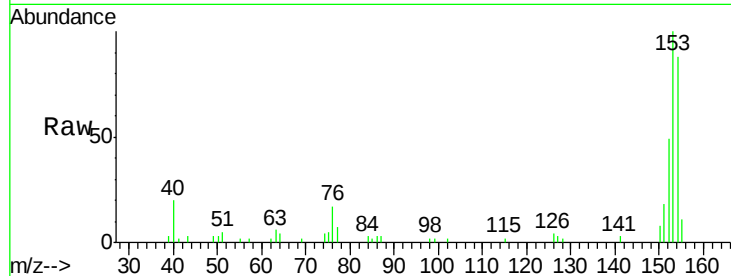
Tot Ion:154 Resp: 15435

Ion Ratio Lower Upper

154 100

153 114.0 90.2 135.2

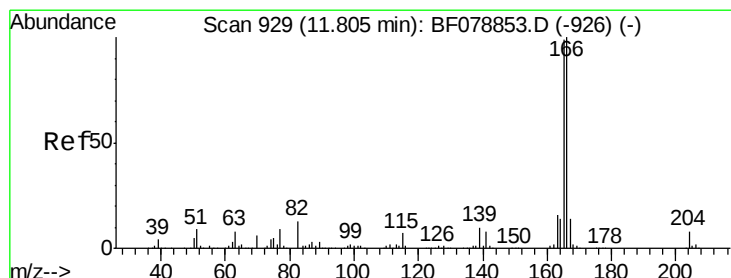
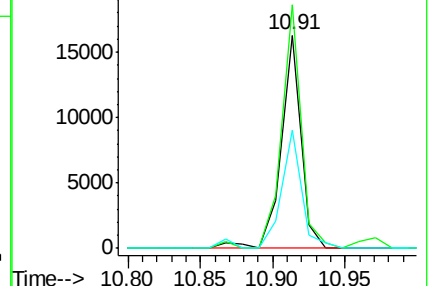
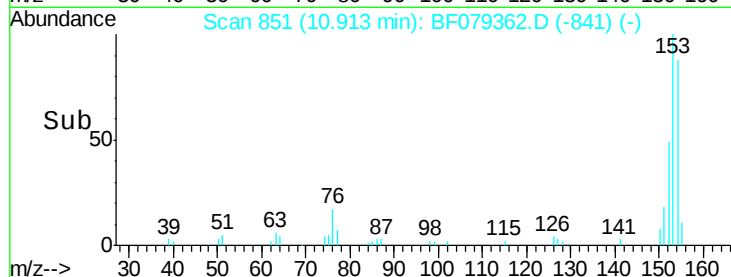
152 55.6 43.8 65.8



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



#57

Fluorene

Concen: 3.14 ng

RT: 11.55 min Scan# 907

Delta R.T. -0.00 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

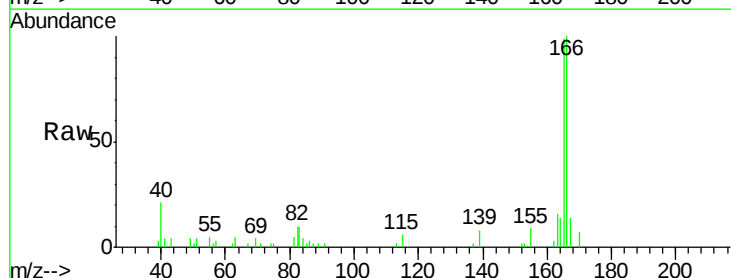
Tgt Ion:166 Resp: 21105

Ion Ratio Lower Upper

166 100

165 98.5 79.5 119.3

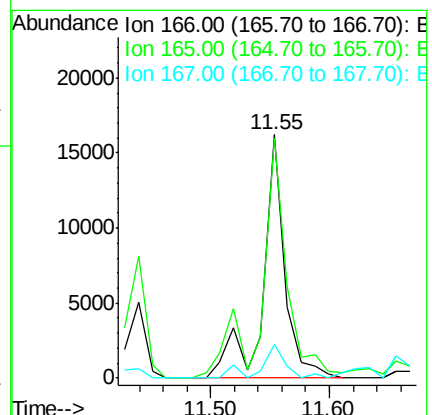
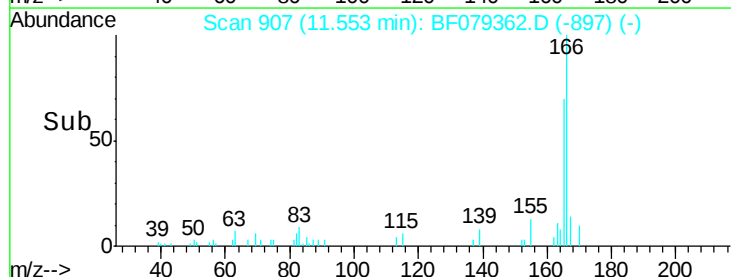
167 13.8 11.0 16.6

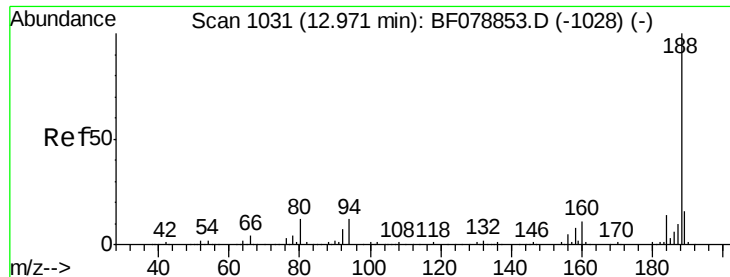


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

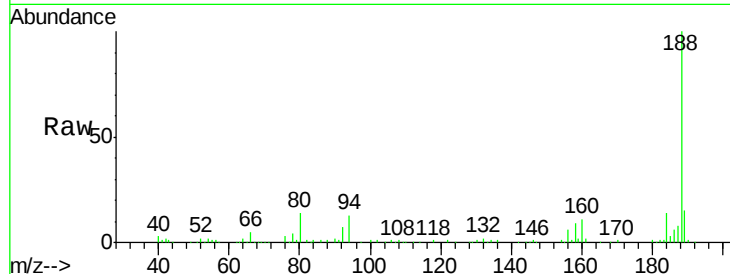




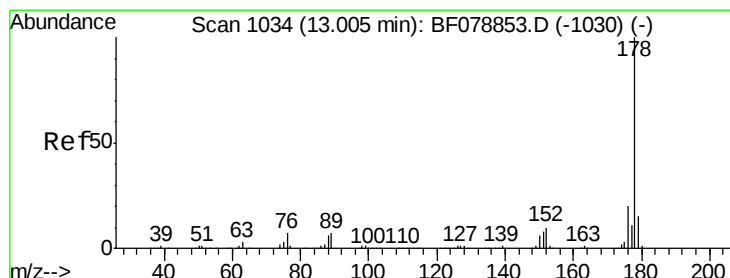
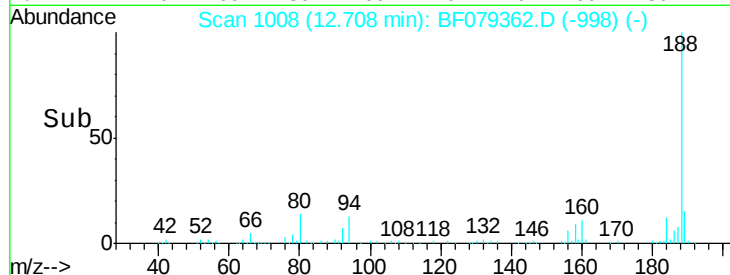
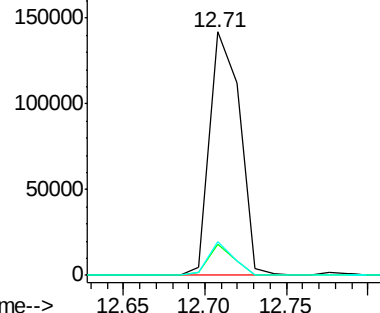
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.71 min Scan# 1008
Delta R.T. -0.01 min
Lab File: BF079362.D
Acq: 20 May 2015 3:03

Instrument :
BNA_F
ClientSampleId :
SB-01

Tot Ion:188 Resp: 181002
Ion Ratio Lower Upper
188 100
94 12.9 9.4 14.0
80 13.9 9.8 14.6

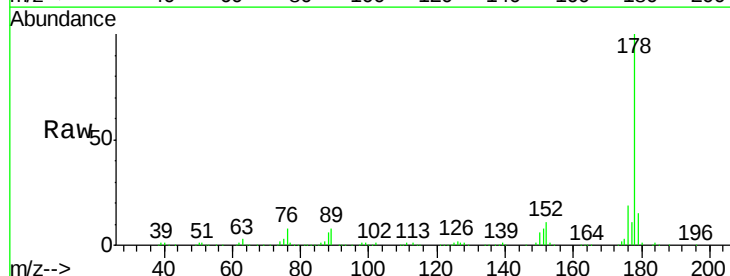


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

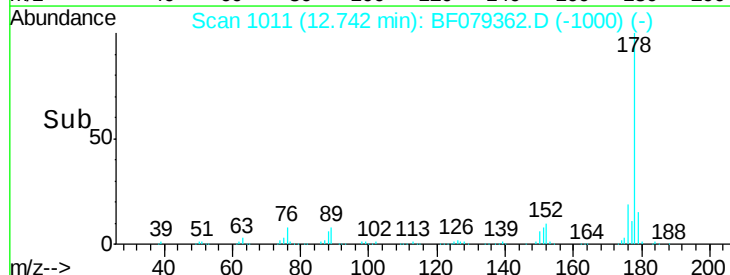
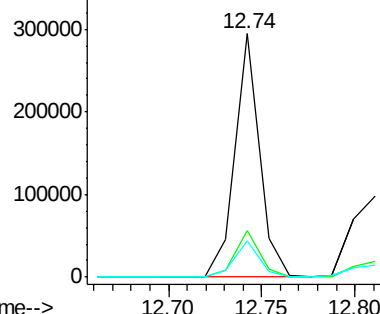


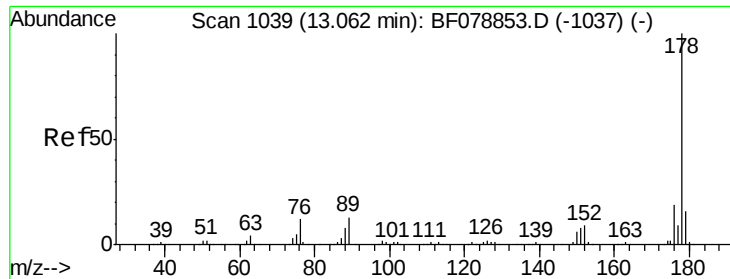
#70
Phenanthrene
Concen: 26.37 ng
RT: 12.74 min Scan# 1011
Delta R.T. -0.00 min
Lab File: BF079362.D
Acq: 20 May 2015 3:03

Tgt Ion:178 Resp: 266983
Ion Ratio Lower Upper
178 100
176 19.3 15.9 23.9
179 15.1 12.2 18.4



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

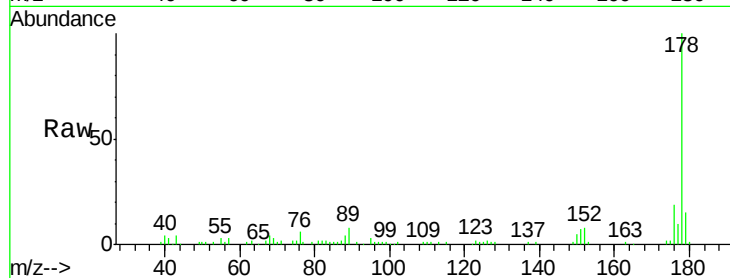




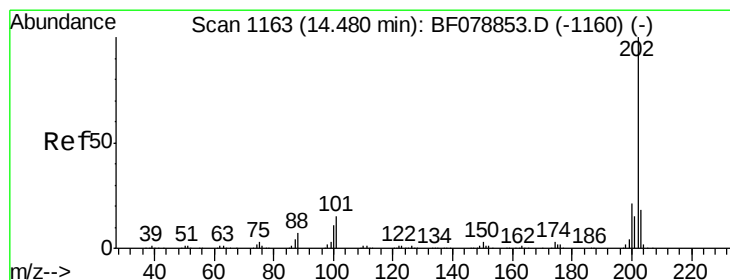
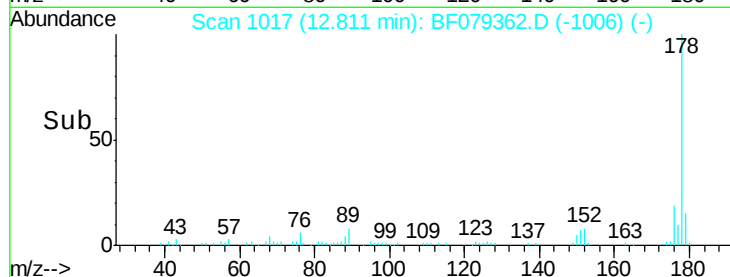
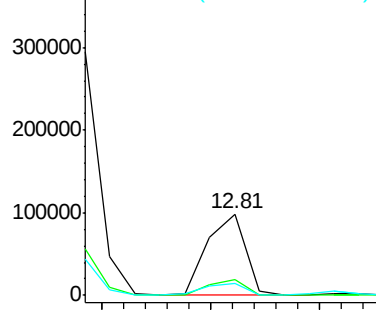
#71
 Anthracene
 Concen: 12.08 ng
 RT: 12.81 min Scan# 1017
 Delta R.T. -0.00 min
 Lab File: BF079362.D
 Acq: 20 May 2015 3:03

Instrument :
 BNA_F
 ClientSampleId :
 SB-01

Tot Ion:178 Resp: 119988
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.3 22.9
 179 14.7 12.6 19.0

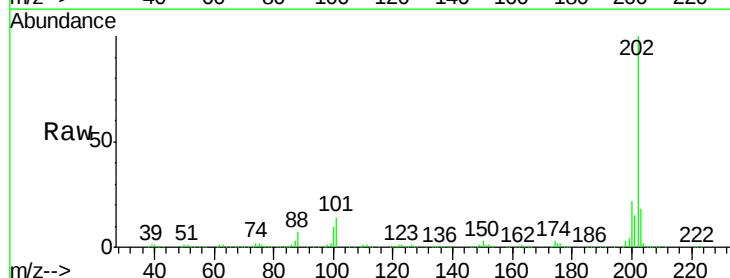


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

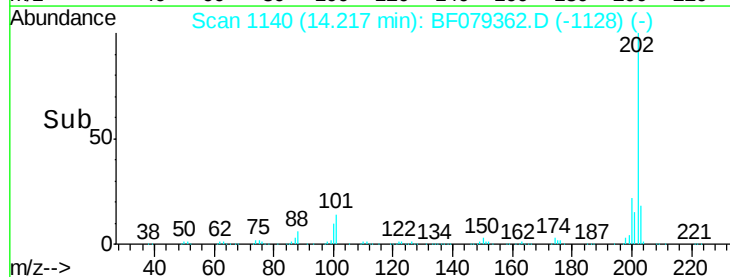
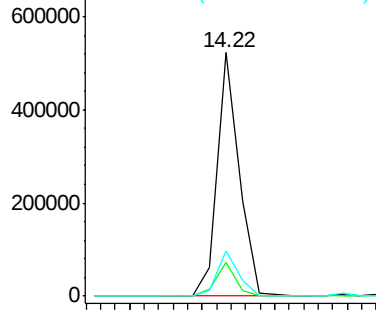


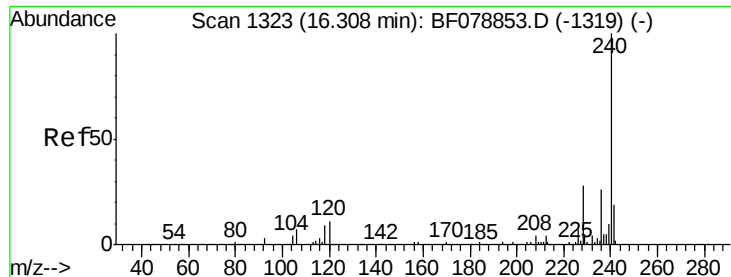
#74
 Fluoranthene
 Concen: 51.66 ng
 RT: 14.22 min Scan# 1140
 Delta R.T. -0.01 min
 Lab File: BF079362.D
 Acq: 20 May 2015 3:03

Tgt Ion:202 Resp: 545034
 Ion Ratio Lower Upper
 202 100
 101 13.9 0.0 34.7
 203 18.4 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

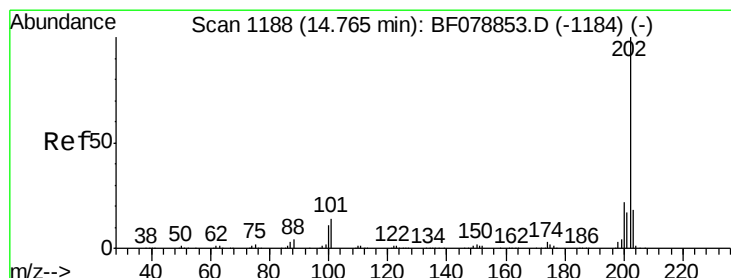
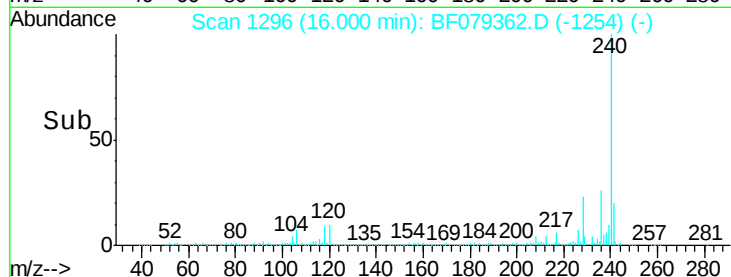
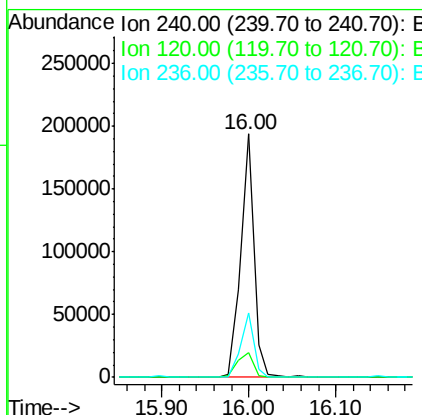
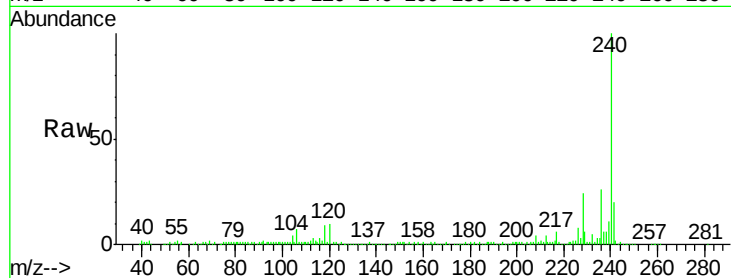




#75
Chrysene-d12
Concen: 20.00 ng
RT: 16.00 min Scan# 1296
Delta R.T. -0.02 min
Lab File: BF079362.D
Acq: 20 May 2015 3:03

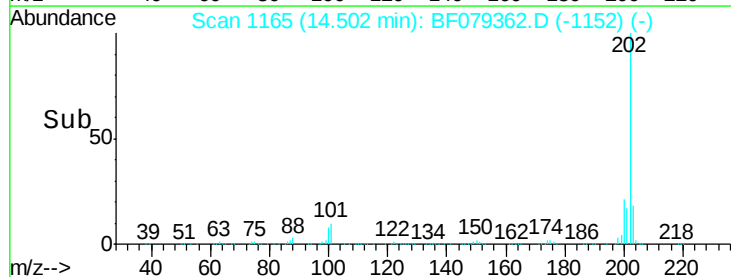
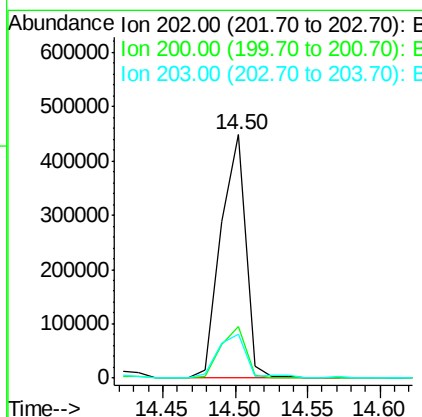
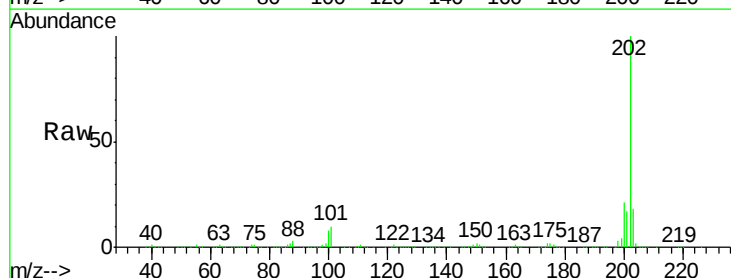
Instrument :
BNA_F
ClientSampled :
SB-01

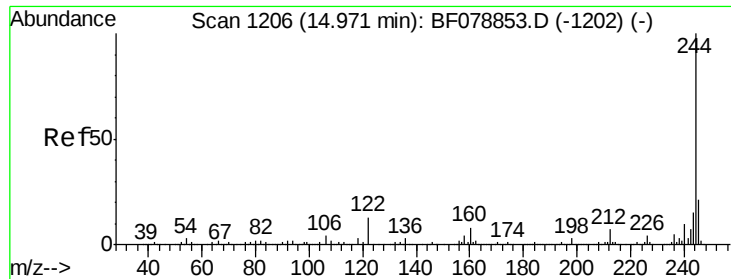
Tot Ion:240 Resp: 204689
Ion Ratio Lower Upper
240 100
120 10.3 8.6 12.8
236 26.3 21.0 31.6



#77
Pyrene
Concen: 45.25 ng
RT: 14.50 min Scan# 1165
Delta R.T. -0.00 min
Lab File: BF079362.D
Acq: 20 May 2015 3:03

Tgt Ion:202 Resp: 533712
Ion Ratio Lower Upper
202 100
200 21.4 17.5 26.3
203 17.8 14.7 22.1





#78

Terphenyl-d14

Concen: 61.12 ng

RT: 14.71 min Scan# 1183

Delta R.T. -0.01 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA_F

ClientSampleId :

SB-01

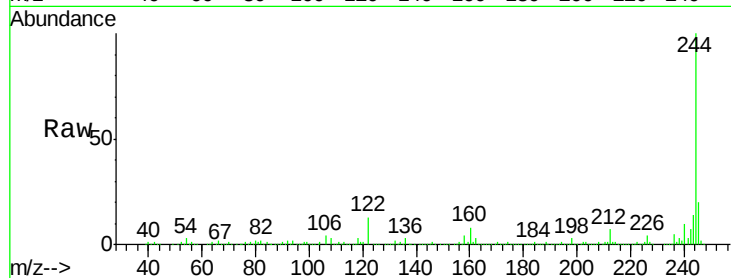
Tot Ion:244 Resp: 522510

Ion Ratio Lower Upper

244 100

212 6.9 5.6 8.4

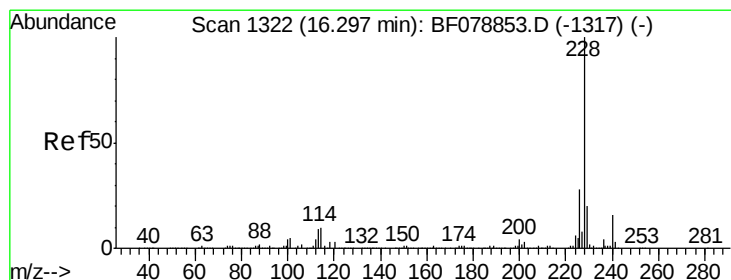
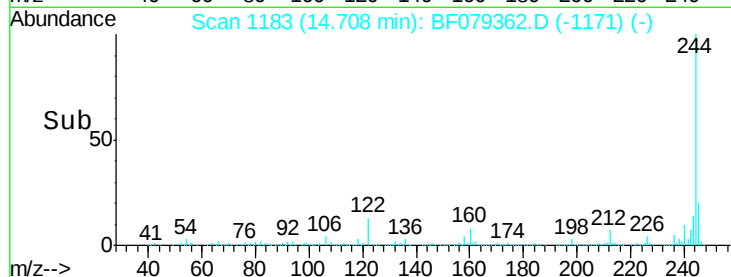
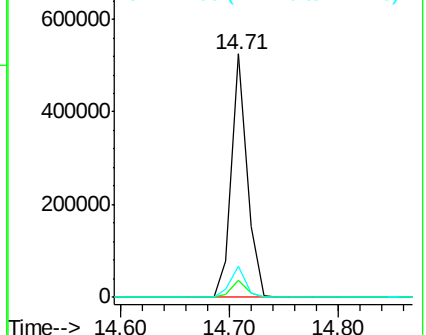
122 12.8 10.5 15.7



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: 32.35 ng m

RT: 15.99 min Scan# 1295

Delta R.T. -0.02 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

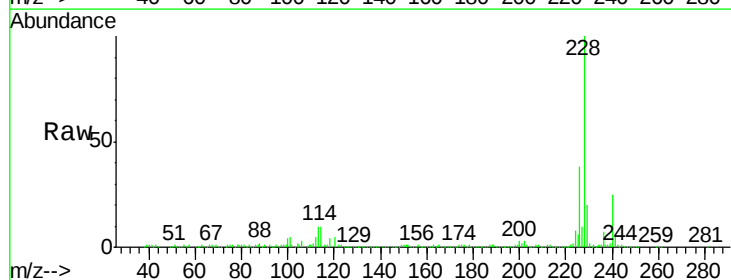
Tgt Ion:228 Resp: 362583

Ion Ratio Lower Upper

228 100

226 37.5 22.3 33.5#

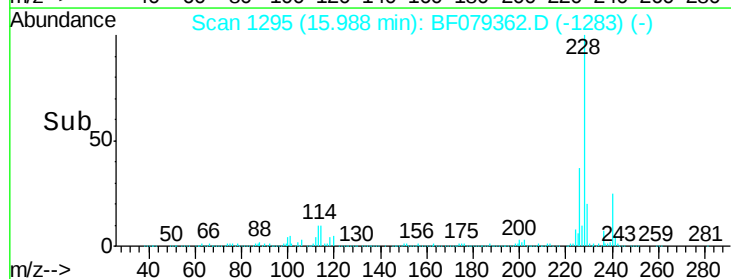
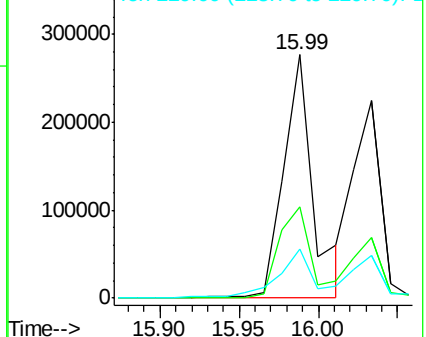
229 20.3 16.1 24.1

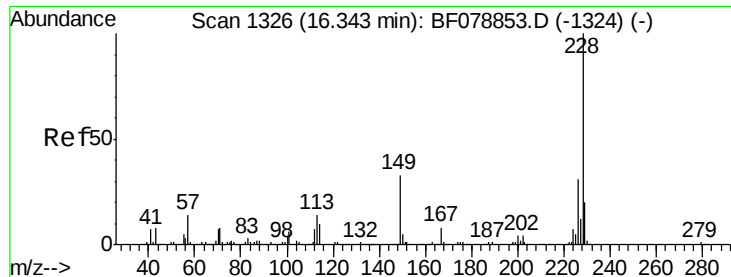


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 24.54 ng

RT: 16.03 min Scan# 1299

Delta R.T. -0.02 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA_F

ClientSampled :

SB-01

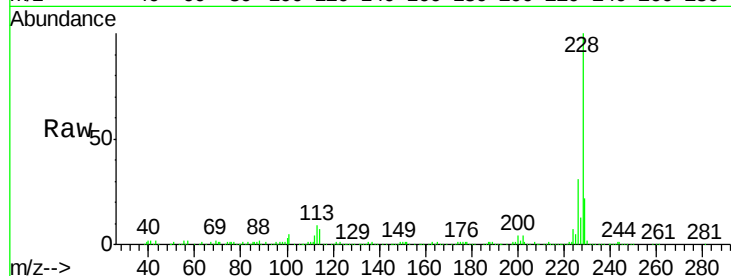
Tot Ion:228 Resp: 264555

Ion Ratio Lower Upper

228 100

226 30.8 24.8 37.2

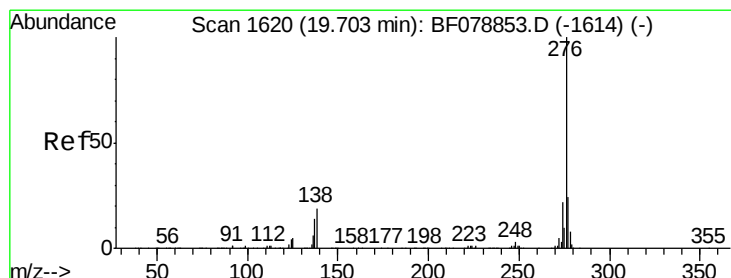
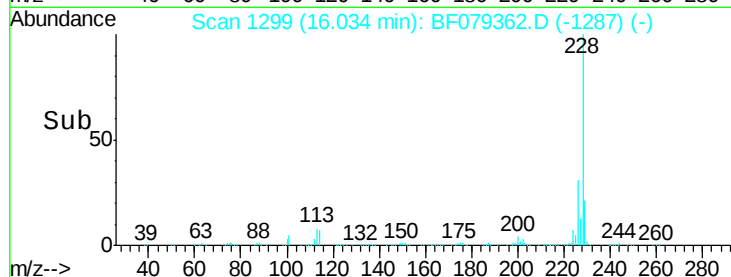
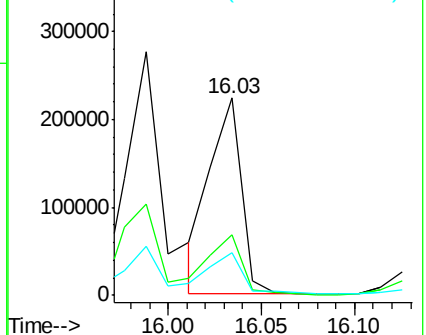
229 21.7 16.1 24.1



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: 18.03 ng

RT: 19.07 min Scan# 1565

Delta R.T. -0.14 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

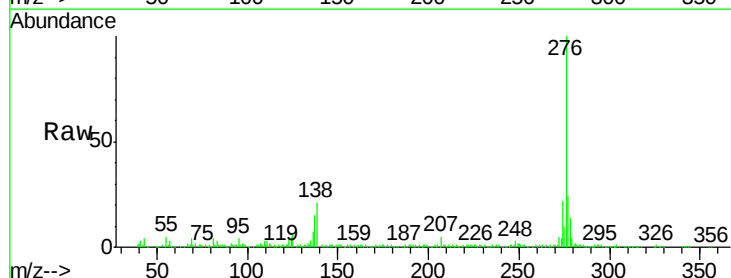
Tgt Ion:276 Resp: 247709

Ion Ratio Lower Upper

276 100

138 21.9 21.1 31.7

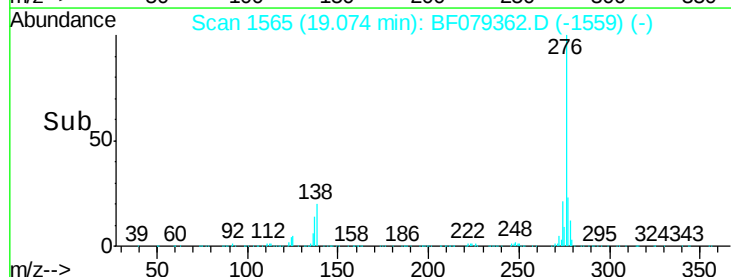
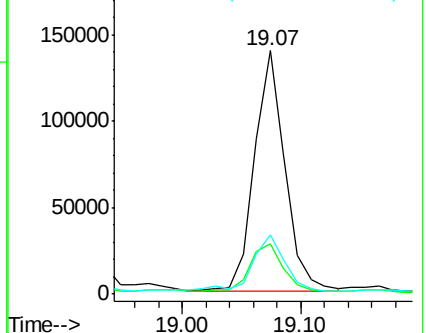
277 25.5 19.9 29.9

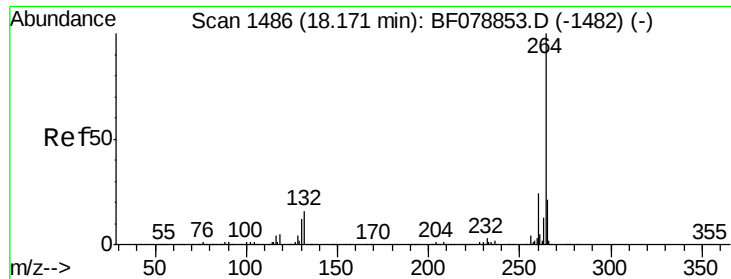


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

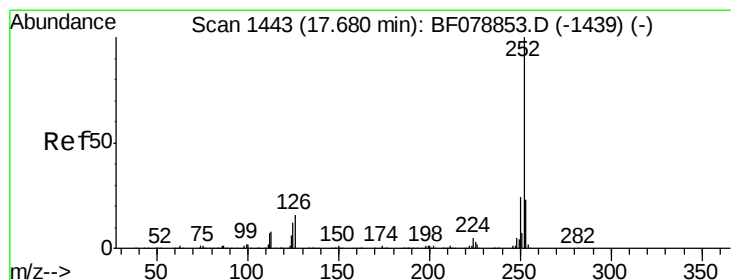
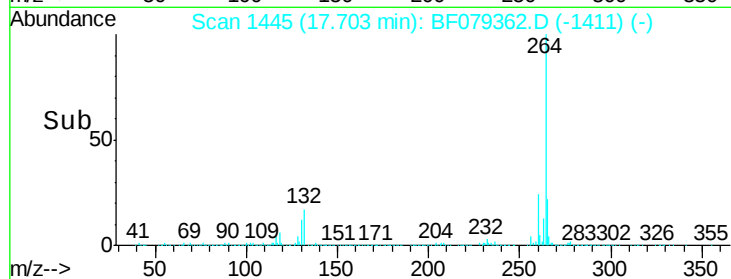
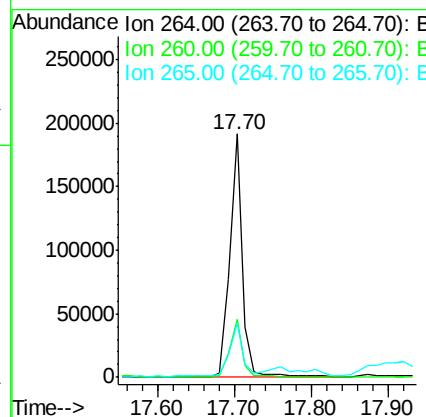
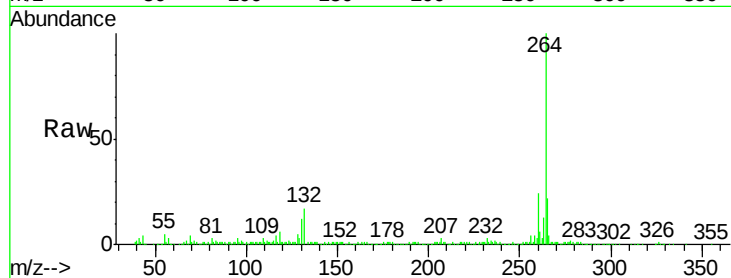




#86
Pervlene-d12
Concen: 20.00 ng
RT: 17.70 min Scan# 1445
Delta R.T. -0.11 min
Lab File: BF079362.D
Acq: 20 May 2015 3:03

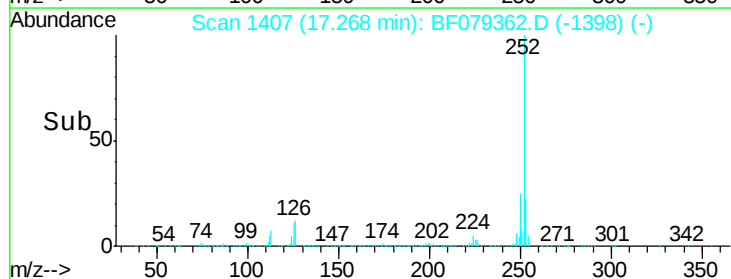
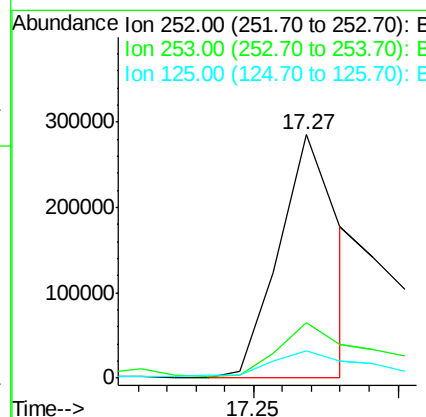
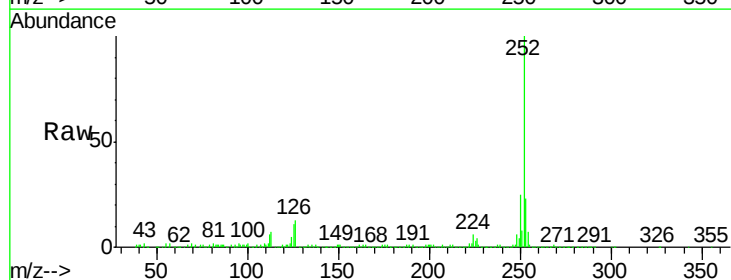
Instrument :
BNA_F
ClientSampleId :
SB-01

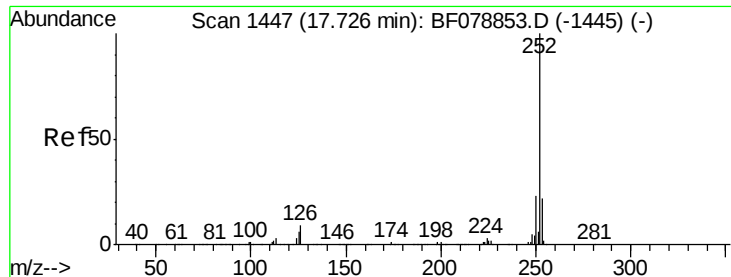
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	22.3	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 33.37 ng m
RT: 17.27 min Scan# 1407
Delta R.T. -0.08 min
Lab File: BF079362.D
Acq: 20 May 2015 3:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1
125	11.2	9.4	14.2





#88

Benzo(k)fluoranthene

Concen: 15.28 ng

RT: 17.28 min Scan# 1408

Delta R.T. -0.10 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA_F

ClientSampleId :

SB-01

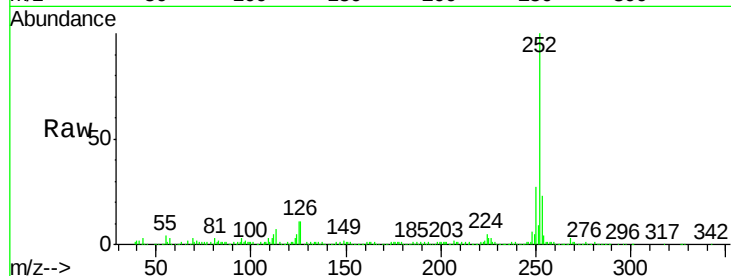
Tot Ion:252 Resp: 180762

Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.0

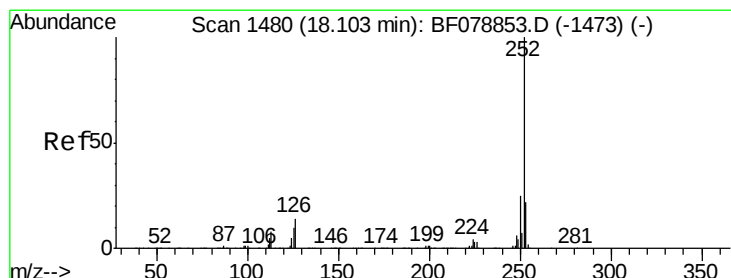
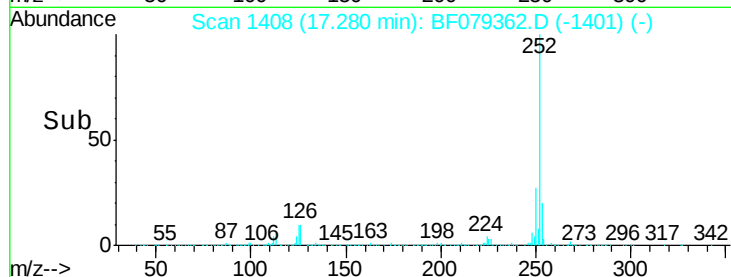
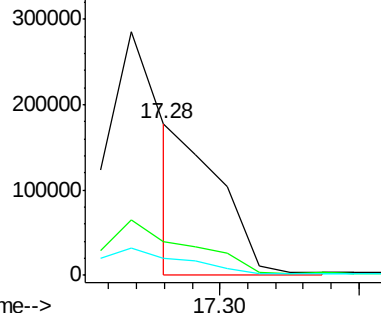
125 10.8 6.1 9.1#



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: 30.71 ng

RT: 17.65 min Scan# 1440

Delta R.T. -0.10 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

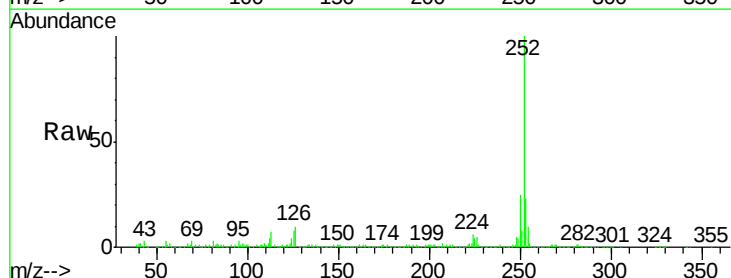
Tgt Ion:252 Resp: 345568

Ion Ratio Lower Upper

252 100

253 22.5 18.0 27.0

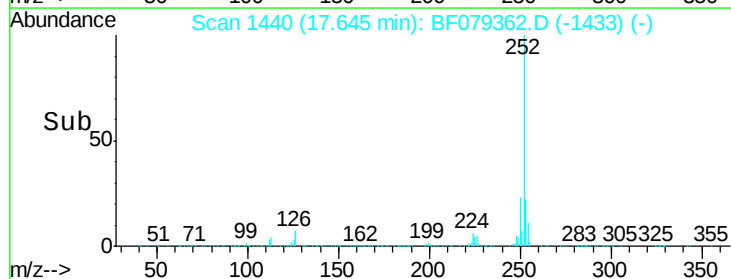
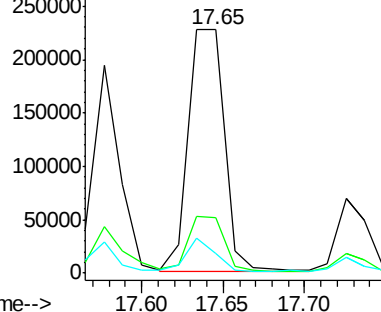
125 8.0 8.2 12.2#

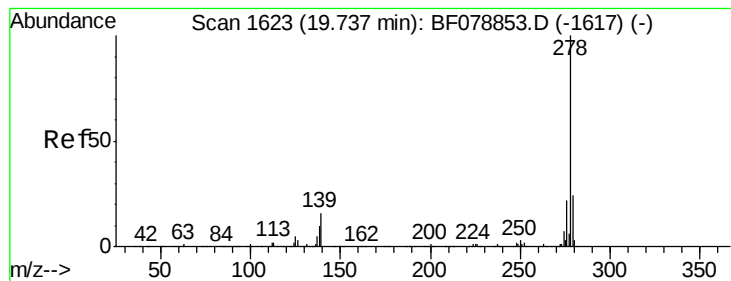


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 4.27 ng/mL

RT: 19.09 min Scan# 1566

Delta R.T. -0.16 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA_F

ClientSampleId :

SB-01

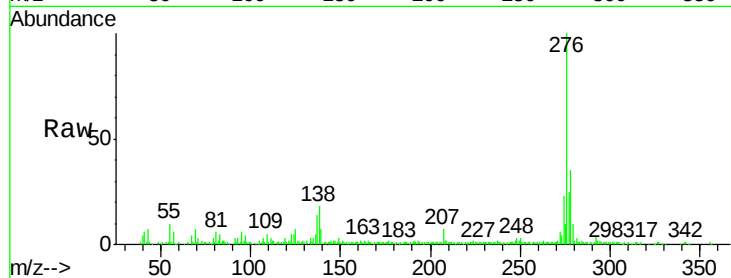
Tot Ion:278 Resp: 51060

Ion Ratio Lower Upper

278 100

139 19.1 13.1 19.7

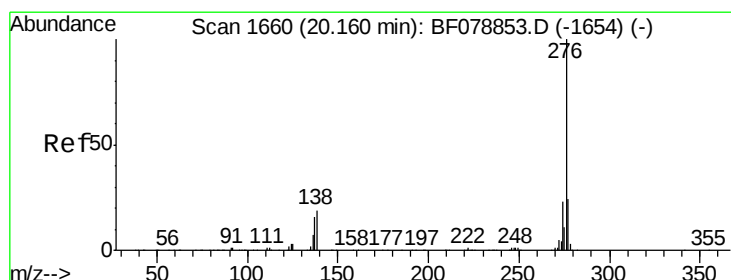
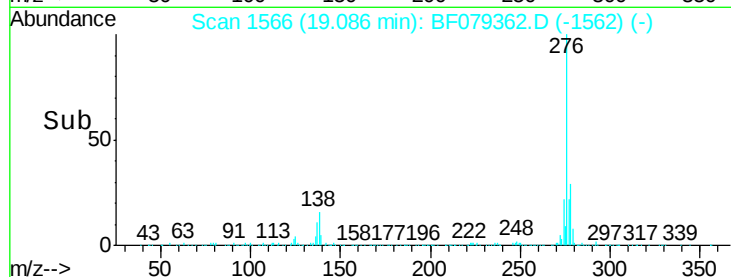
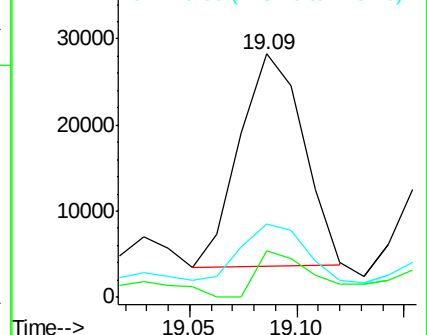
279 30.2 19.1 28.7#



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: 19.78 ng/mL

RT: 19.47 min Scan# 1600

Delta R.T. -0.15 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

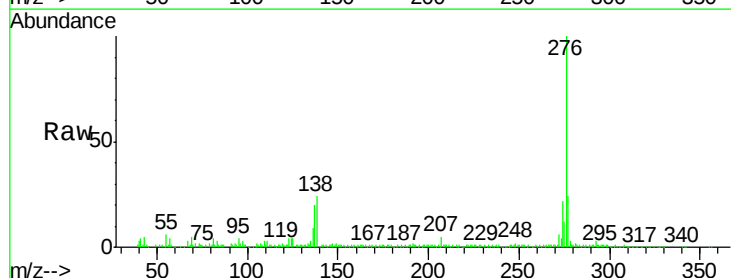
Tgt Ion:276 Resp: 237091

Ion Ratio Lower Upper

276 100

277 24.3 18.8 28.2

138 23.6 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

