

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051815\
 Data File : BF079331.D
 Acq On : 19 May 2015 4:26
 Operator : TP/IZ
 Sample : G2282-15
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-03-D1

Quant Time: May 19 05:11:26 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 19 04:38:30 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.16	152	50811	20.00	ng	0.00
21) Naphthalene-d8	8.74	136	210861	20.00	ng	0.00
38) Acenaphthene-d10	10.91	164	100812	20.00	ng	0.00
63) Phenanthrene-d10	12.77	188	197411	20.00	ng	0.01
75) Chrysene-d12	16.06	240	190283	20.00	ng	0.00
86) Perylene-d12	17.78	264	198526	20.00	ng	-0.07

System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.74	99	484433	124.16	ng	0.00
23) Nitrobenzene-d5	7.86	82	293700	80.05	ng	0.00
41) 2,4,6-Tribromophenol	11.91	330	152453	139.79	ng	0.01
44) 2-Fluorobiphenyl	10.09	172	584323	80.75	ng	0.00
78) Terphenyl-d14	14.75	244	647792	81.51	ng	0.00

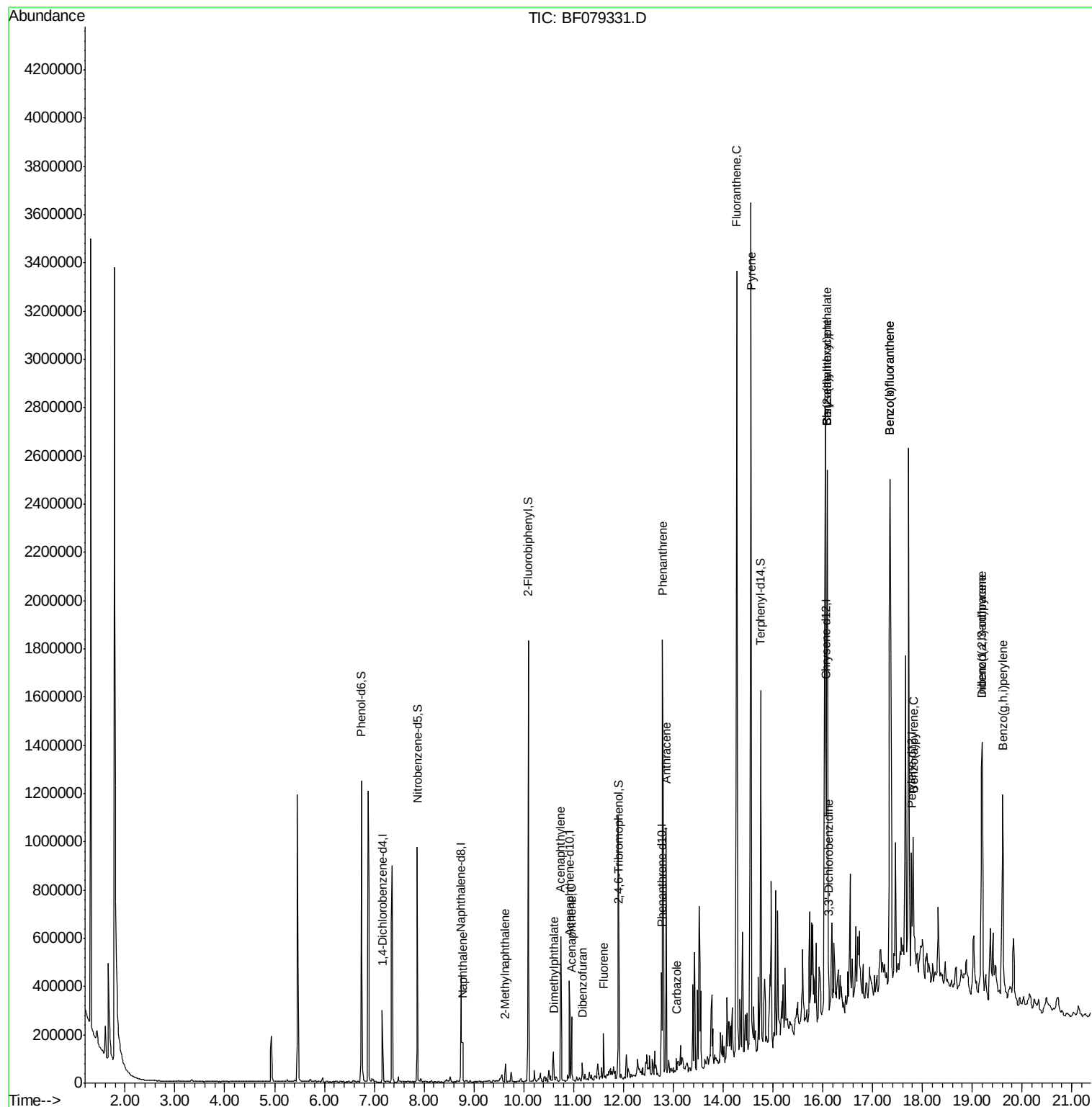
Target Compounds				Qvalue		
31) Naphthalene	8.78	128	109757	10.92	ng	99
37) 2-Methylnaphthalene	9.63	142	22774	3.27	ng	97
48) Acenaphthylene	10.74	152	270798	26.38	ng	100
49) Dimethylphthalate	10.60	163	60400	8.16	ng	97
51) Acenaphthene	10.96	154	59176	9.67	ng	97
54) Dibenzofuran	11.18	168	23574	2.67	ng	97
57) Fluorene	11.60	166	70842	9.76	ng	98
70) Phenanthrene	12.79	178	934801	84.64	ng	99
71) Anthracene	12.86	178	424844	39.21	ng	99
72) Carbazole	13.06	167	22178	2.15	ng	98
74) Fluoranthene	14.27	202	2049709	178.11	ng	99
77) Pyrene	14.56	202	1762870	160.77	ng	97
80) Benzo(a)anthracene	16.09	228	925868	88.85	ng	93
81) 3,3'-Dichlorobenzidine	16.11	252	10685	2.88	ng	# 8
82) Chrysene	16.09	228	923206	92.12	ng	97
83) Bis(2-ethylhexyl)phthalate	16.09	149	20033	2.76	ng	94
85) Indeno(1,2,3-cd)pyrene	19.20	276	787095	61.64	ng	95
87) Benzo(b)fluoranthene	17.35	252	1958886	180.27	ng	99
88) Benzo(k)fluoranthene	17.35	252	1958886	186.21	ng	# 94
89) Benzo(a)pyrene	17.82	252	305419	30.52	ng	97
90) Dibenzo(a,h)anthracene	19.20	278	186464	17.54	ng	92
91) Benzo(g,h,i)perylene	19.61	276	721663	67.71	ng	# 94

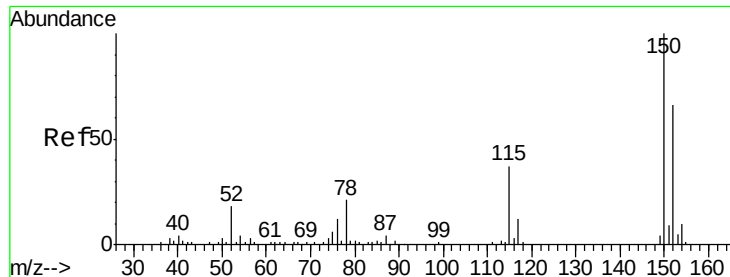
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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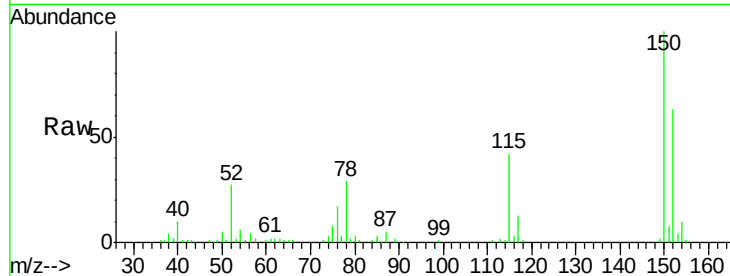




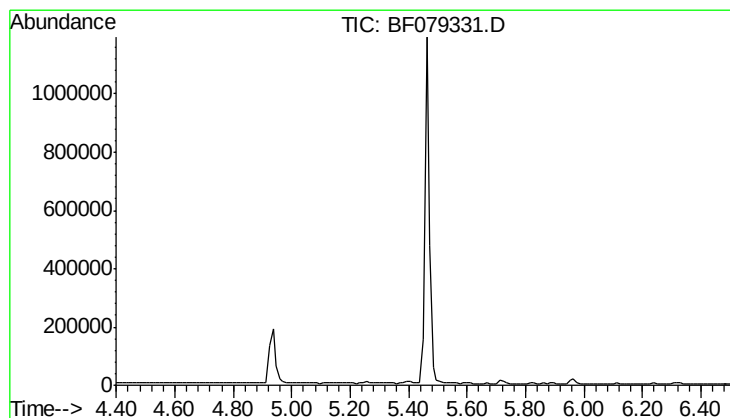
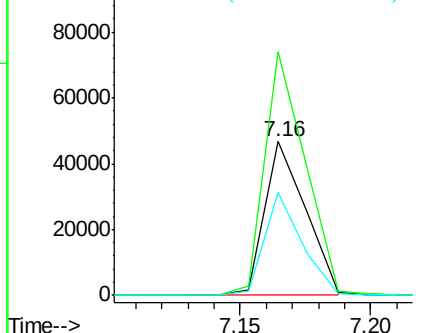
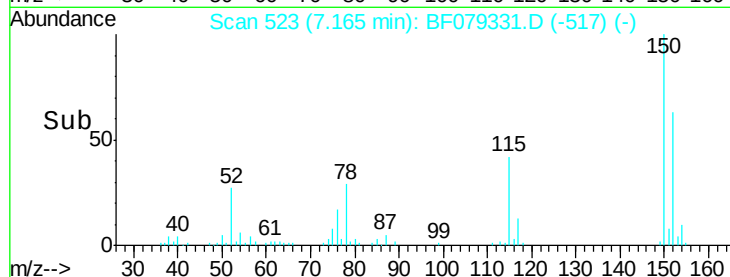
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.16 min Scan# 523
 Delta R.T. 0.00 min
 Lab File: BF079331.D
 Acq: 19 May 2015 4:26

Instrument :
 BNA_F
 ClientSampled :
 WC-03-D1

Tgt Ion	Ratio	Lower	Upper
152	100		
150	158.4	123.8	185.8
115	66.6	49.4	74.0

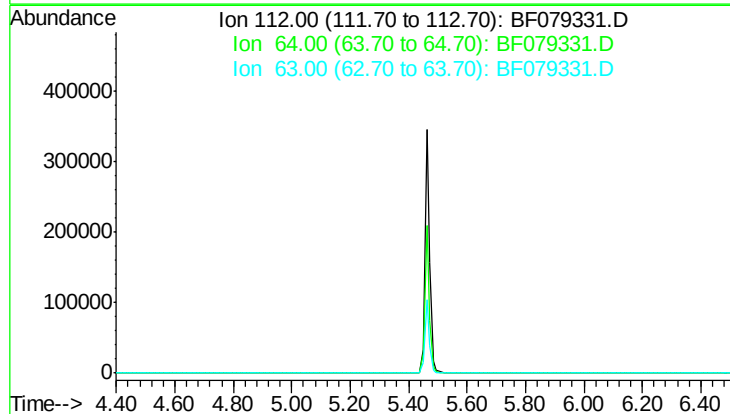


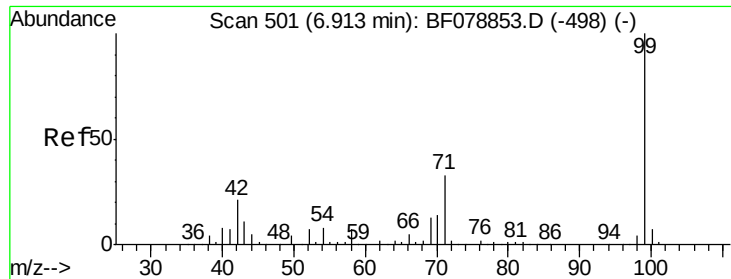
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 0.00 ng
 Expected RT: 5.45 min
 Lab File: BF079331.D
 Acq: 19 May 2015 4:26

Tgt Ion	Sig	Exp Ratio
112	100	
64	55.2	
63	28.4	





#7

Phenol-d6

Concen: 124.16 ng

RT: 6.74 min Scan# 486

Delta R.T. 0.00 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

Instrument :

BNA_F

ClientSampleId :

WC-03-D1

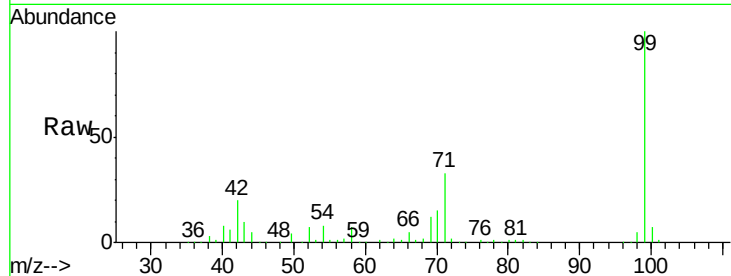
Tgt Ion: 99 Resp: 484433

Ion Ratio Lower Upper

99 100

42 19.7 17.1 25.7

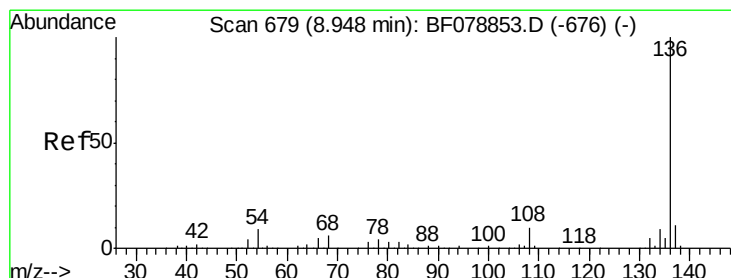
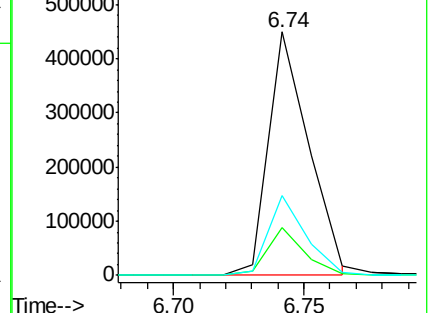
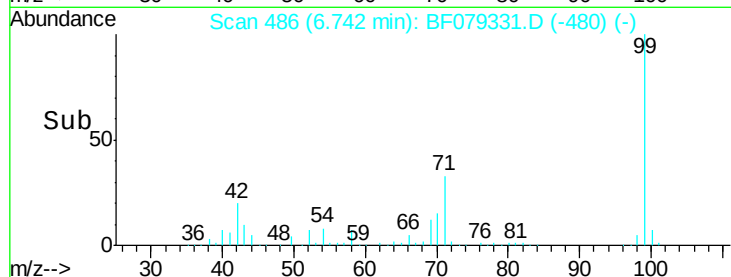
71 32.7 26.3 39.5



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.74 min Scan# 661

Delta R.T. 0.00 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

Tgt Ion: 136 Resp: 210861

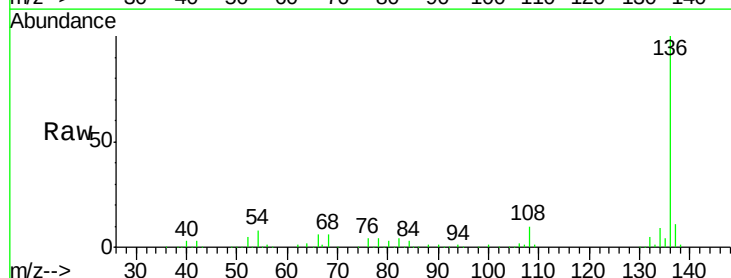
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 8.3 6.9 10.3

68 6.4 4.9 7.3

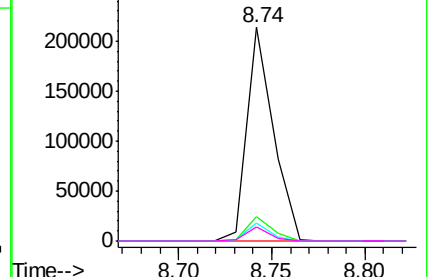
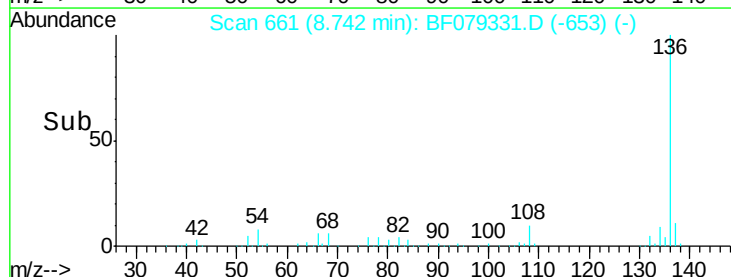


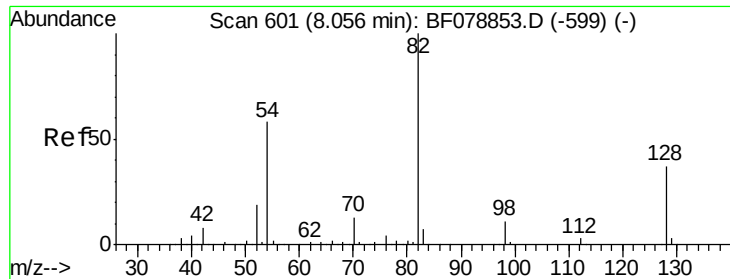
Abundance Ion 136.00 (135.70 to 136.70): E

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

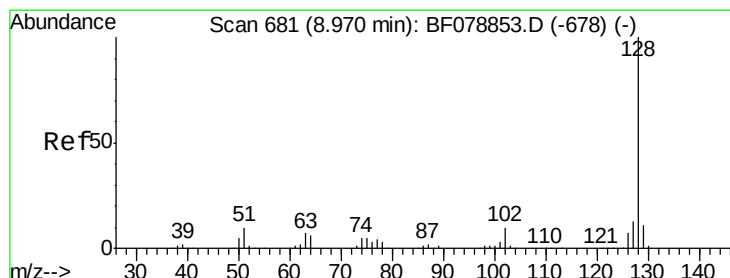
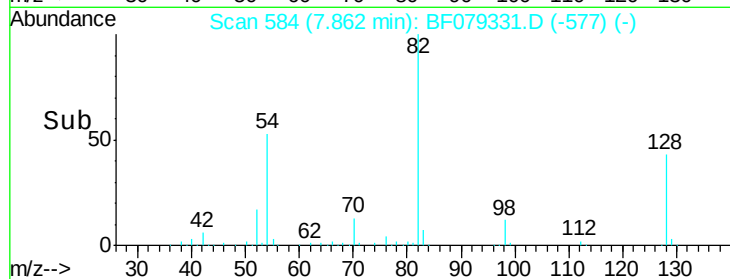
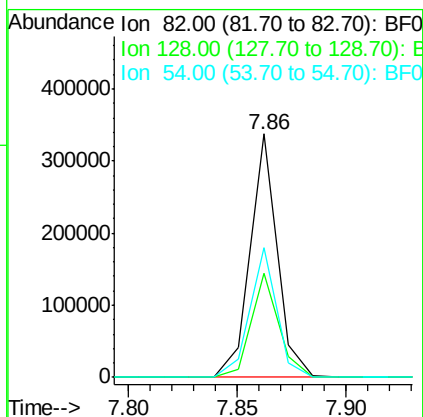
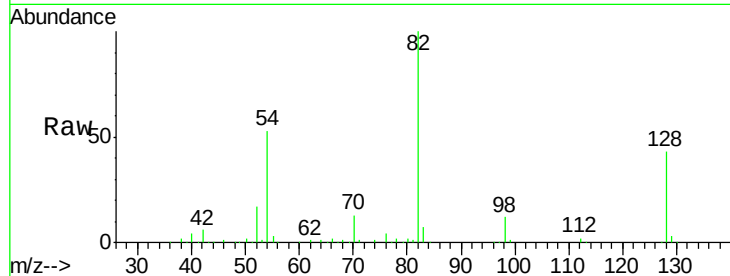




#23
 Nitrobenzene-d5
 Concen: 80.05 ng
 RT: 7.86 min Scan# 584
 Delta R.T. 0.00 min
 Lab File: BF079331.D
 Acq: 19 May 2015 4:26

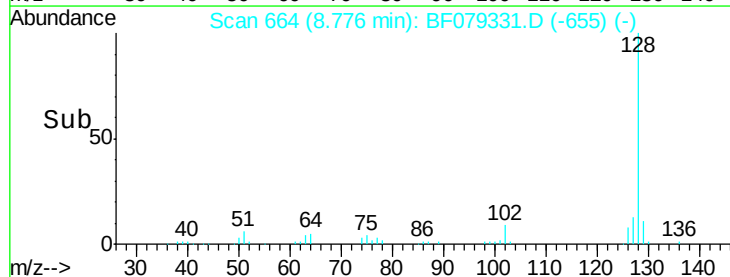
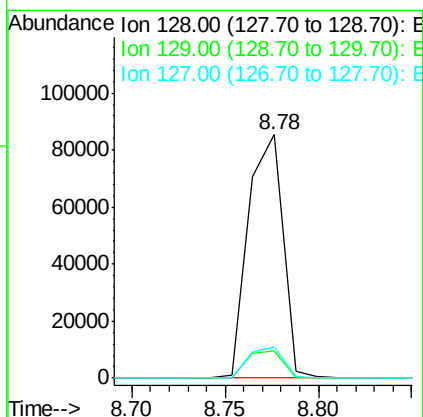
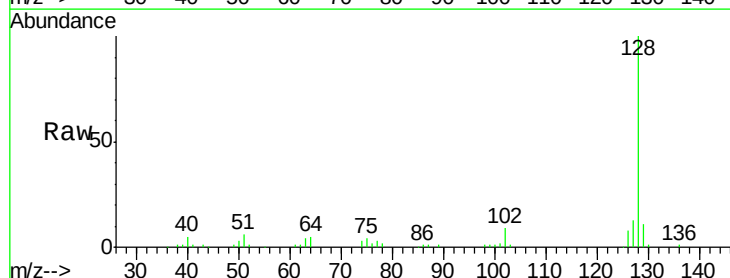
Instrument :
 BNA_F
 ClientSampleId :
 WC-03-D1

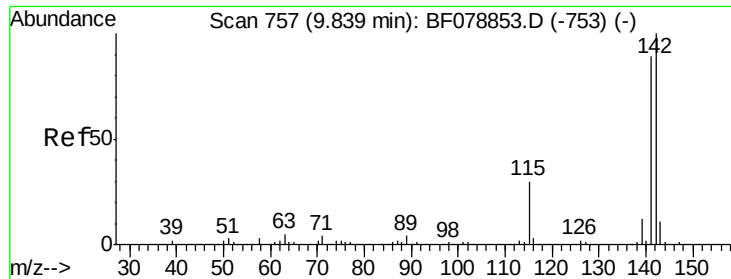
Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.5	29.7	44.5
54	53.1	46.2	69.4



#31
 Naphthalene
 Concen: 10.92 ng
 RT: 8.78 min Scan# 664
 Delta R.T. 0.01 min
 Lab File: BF079331.D
 Acq: 19 May 2015 4:26

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	12.7	10.3	15.5

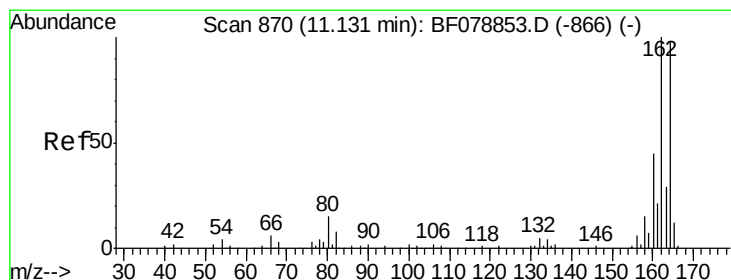
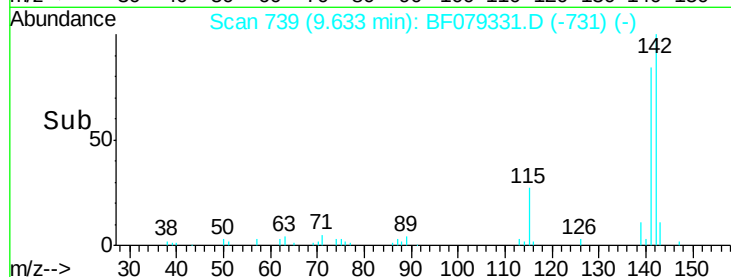
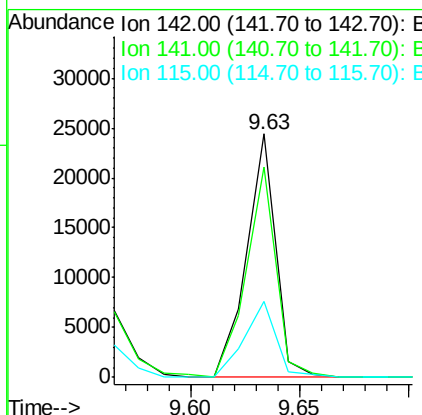
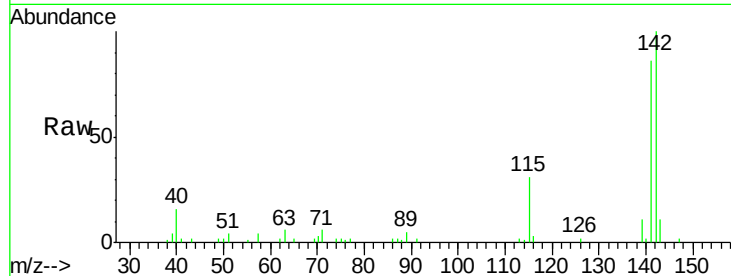




#37
 2-Methylnaphthalene
 Concen: 3.27 ng
 RT: 9.63 min Scan# 739
 Delta R.T. 0.00 min
 Lab File: BF079331.D
 Acq: 19 May 2015 4:26

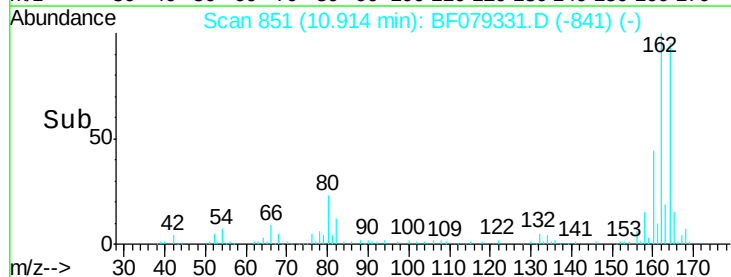
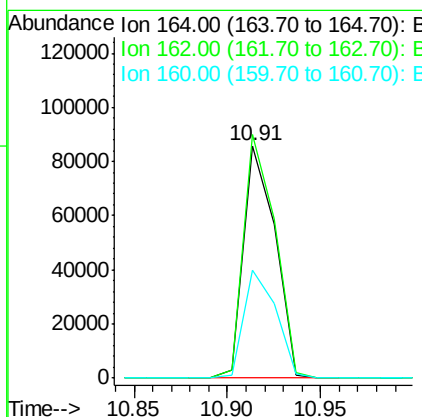
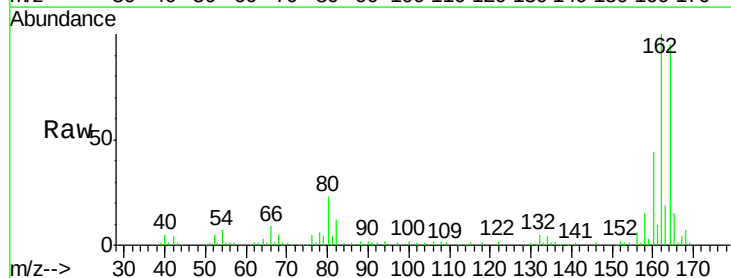
Instrument :
 BNA_F
 ClientSampleId :
 WC-03-D1

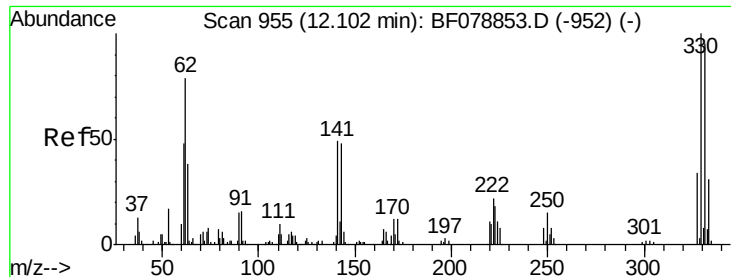
Tgt Ion:142 Resp: 22774
 Ion Ratio Lower Upper
 142 100
 141 86.2 71.6 107.4
 115 31.3 24.2 36.4



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.91 min Scan# 851
 Delta R.T. 0.00 min
 Lab File: BF079331.D
 Acq: 19 May 2015 4:26

Tgt Ion:164 Resp: 100812
 Ion Ratio Lower Upper
 164 100
 162 104.8 81.4 122.0
 160 46.3 36.6 54.8

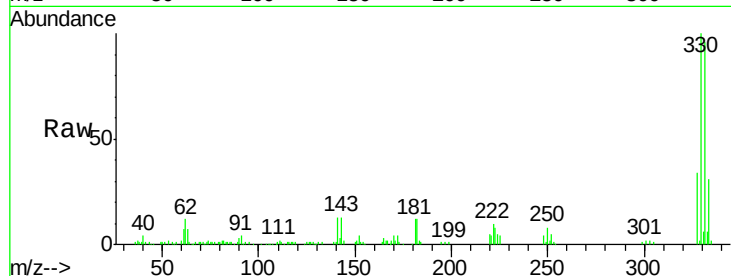




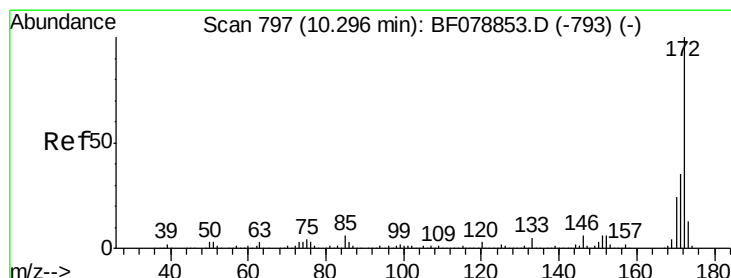
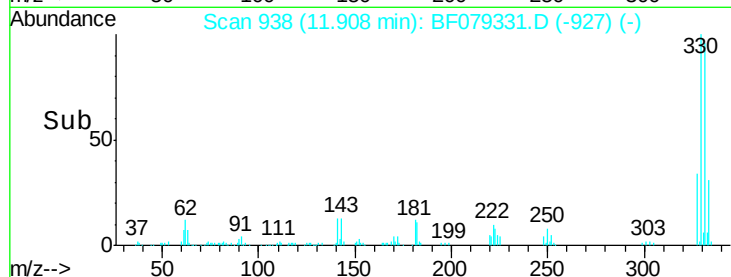
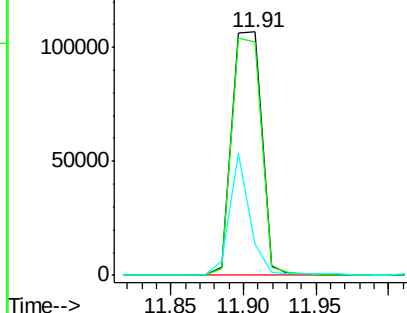
#41
 2,4,6-Tribromophenol
 Concen: 139.79 ng
 RT: 11.91 min Scan# 938
 Delta R.T. 0.01 min
 Lab File: BF079331.D
 Acq: 19 May 2015 4:26

Instrument :
 BNA_F
 ClientSampleId :
 WC-03-D1

Tgt Ion:330 Resp: 152453
 Ion Ratio Lower Upper
 330 100
 332 97.0 76.9 115.3
 141 35.4 27.8 41.8

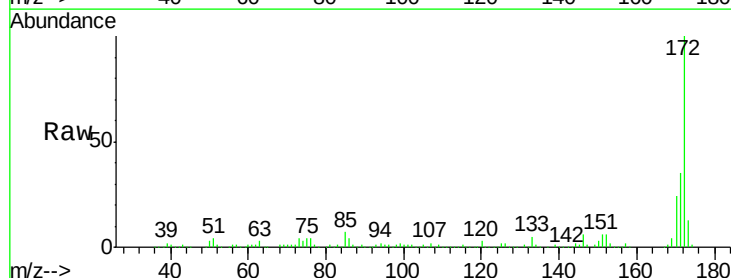


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

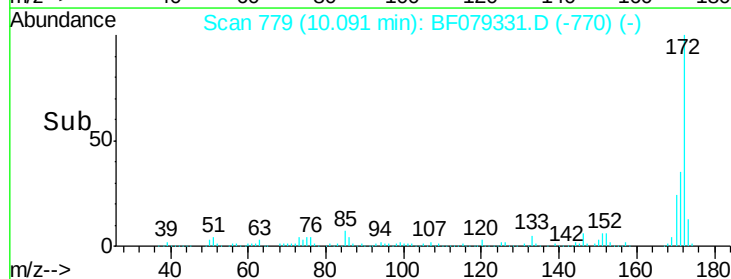
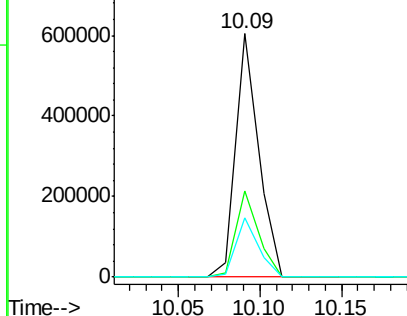


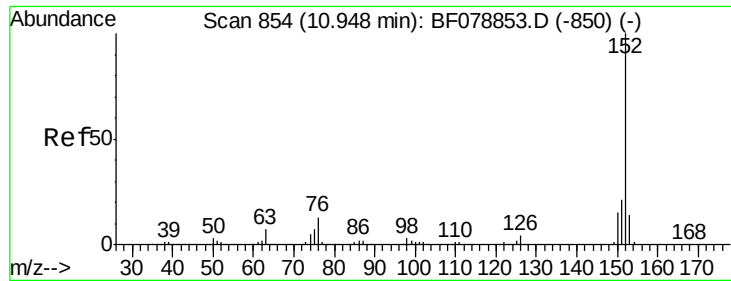
#44
 2-Fluorobiphenyl
 Concen: 80.75 ng
 RT: 10.09 min Scan# 779
 Delta R.T. 0.00 min
 Lab File: BF079331.D
 Acq: 19 May 2015 4:26

Tgt Ion:172 Resp: 584323
 Ion Ratio Lower Upper
 172 100
 171 35.3 28.3 42.5
 170 24.4 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

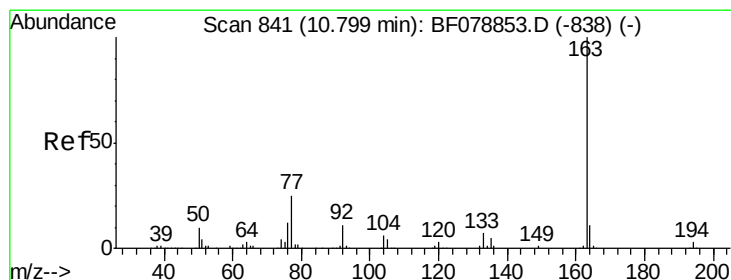
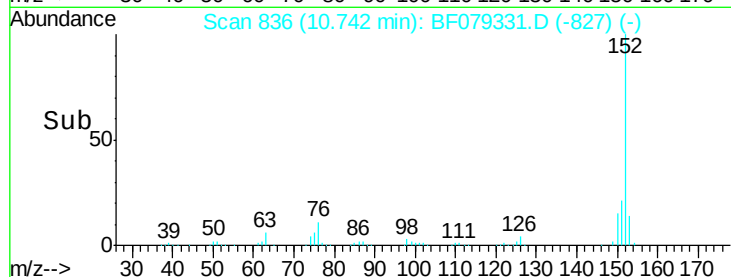
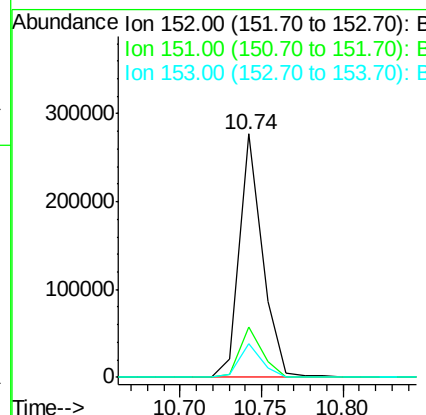
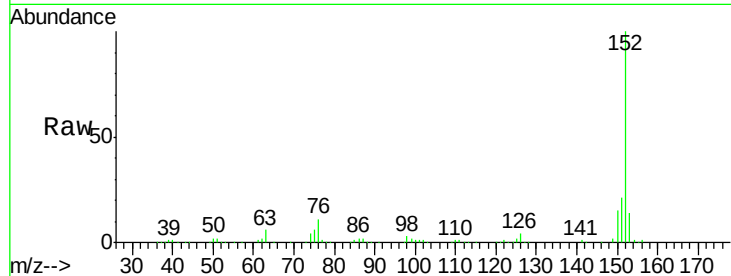




#48
Acenaphthylene
Concen: 26.38 ng
RT: 10.74 min Scan# 836
Delta R.T. 0.00 min
Lab File: BF079331.D
Acq: 19 May 2015 4:26

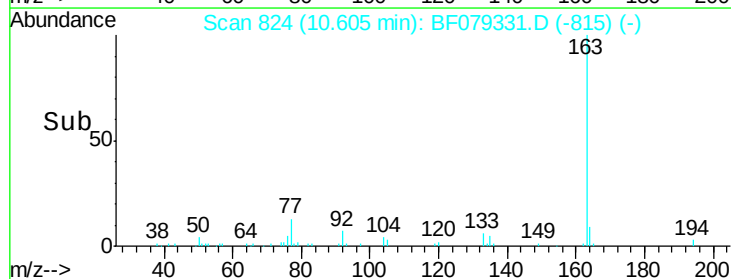
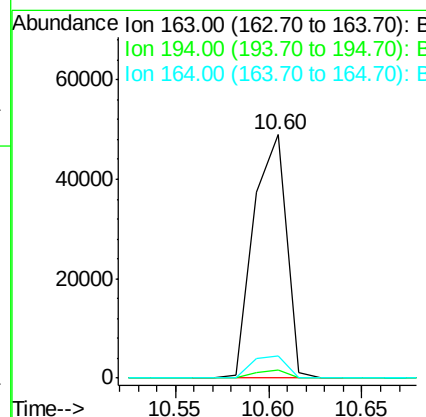
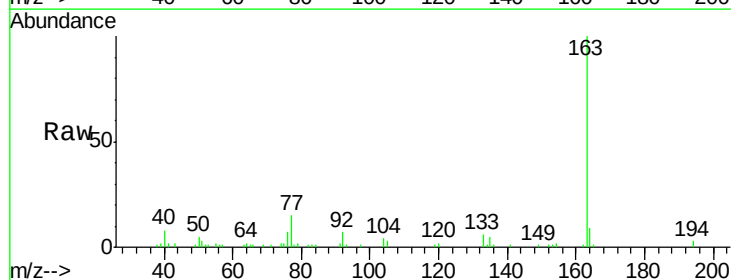
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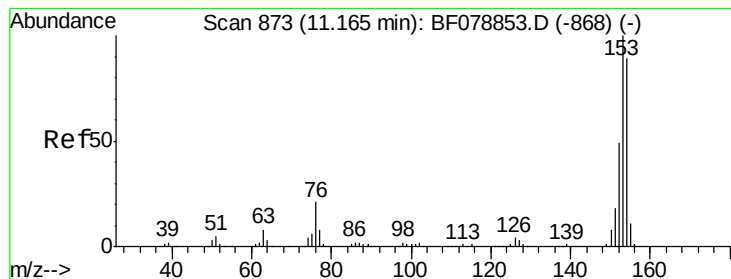
Tgt Ion:152 Resp: 270798
Ion Ratio Lower Upper
152 100
151 20.7 16.6 24.8
153 13.8 11.0 16.6



#49
Dimethylphthalate
Concen: 8.16 ng
RT: 10.60 min Scan# 824
Delta R.T. 0.00 min
Lab File: BF079331.D
Acq: 19 May 2015 4:26

Tgt Ion:163 Resp: 60400
Ion Ratio Lower Upper
163 100
194 3.5 2.4 3.6
164 9.2 8.6 12.8





#51

Acenaphthene

Concen: 9.67 ng

RT: 10.96 min Scan# 855

Delta R.T. 0.00 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

Instrument :

BNA_F

ClientSampleId :

WC-03-D1

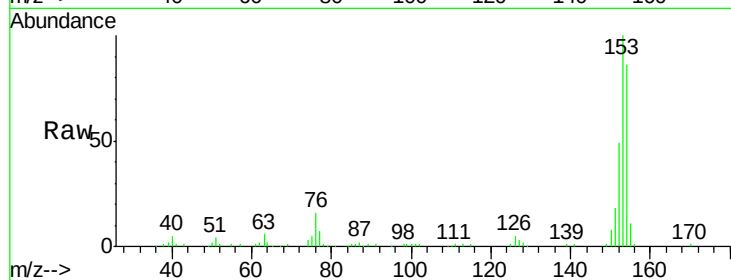
Tgt Ion:154 Resp: 59176

Ion Ratio Lower Upper

154 100

153 116.2 90.2 135.2

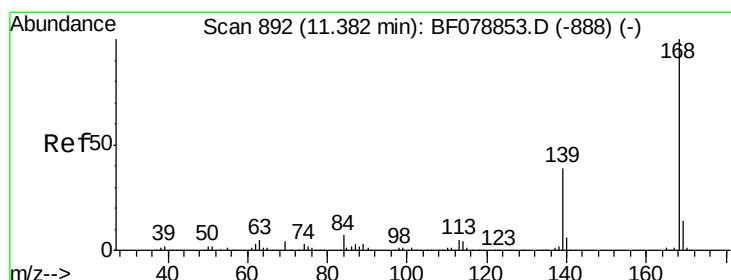
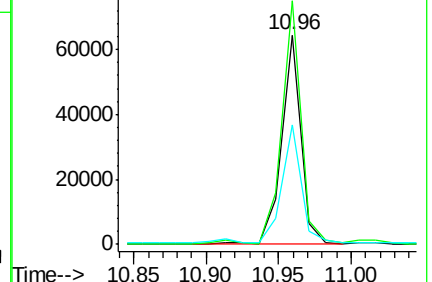
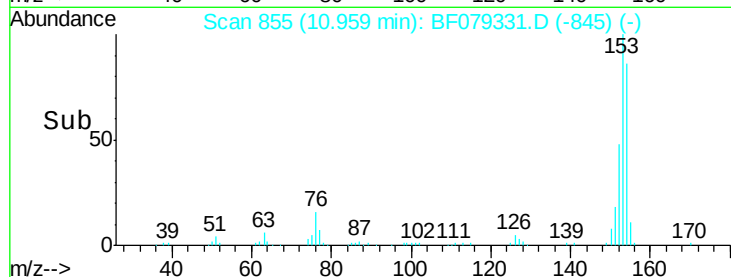
152 57.1 43.8 65.8



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: 2.67 ng

RT: 11.18 min Scan# 874

Delta R.T. 0.00 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

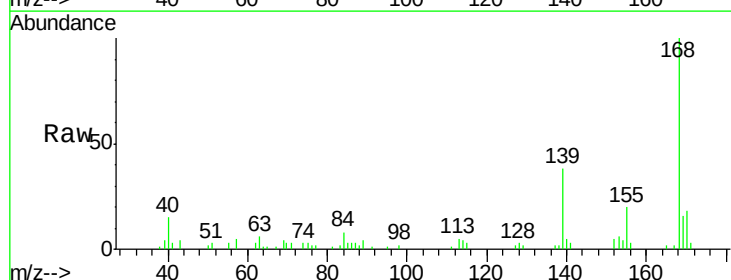
Tgt Ion:168 Resp: 23574

Ion Ratio Lower Upper

168 100

139 38.2 31.5 47.3

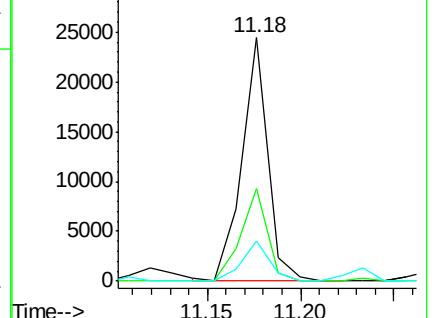
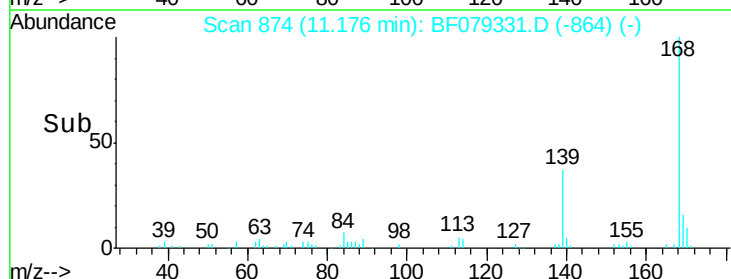
169 16.4 11.0 16.4

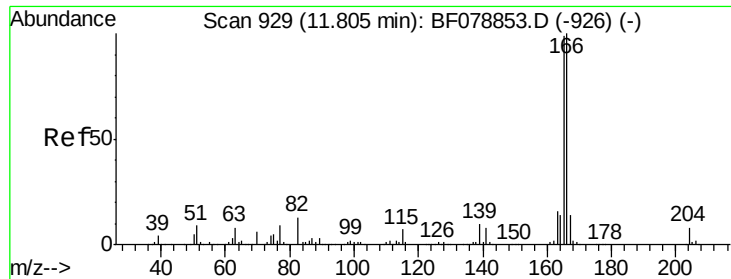


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

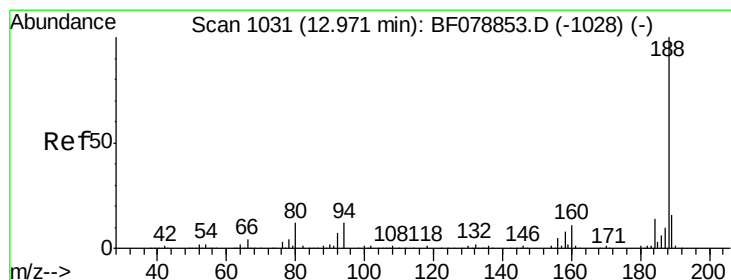
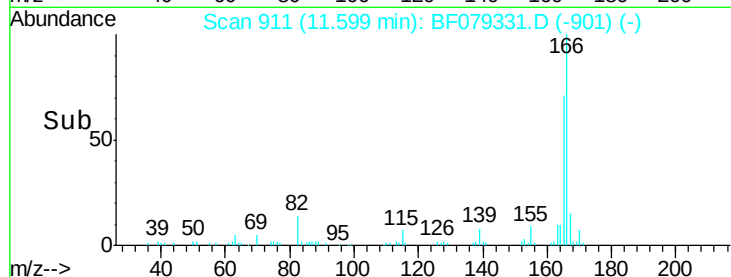
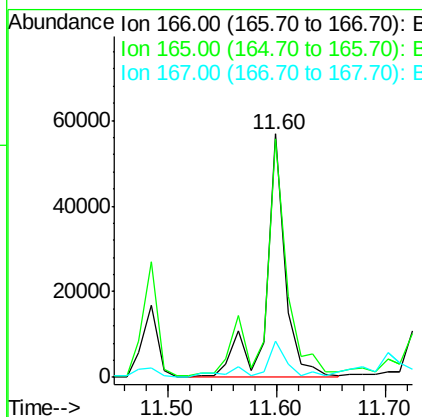
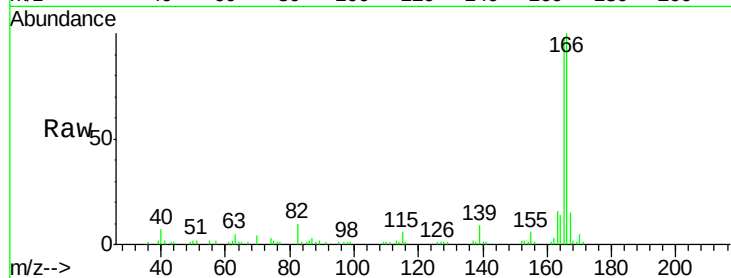




#57
 Fluorene
 Concen: 9.76 ng
 RT: 11.60 min Scan# 911
 Delta R.T. 0.00 min
 Lab File: BF079331.D
 Acq: 19 May 2015 4:26

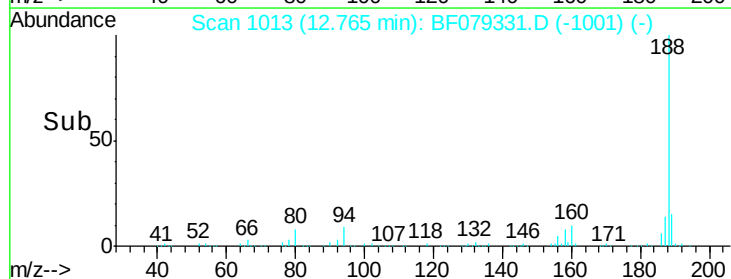
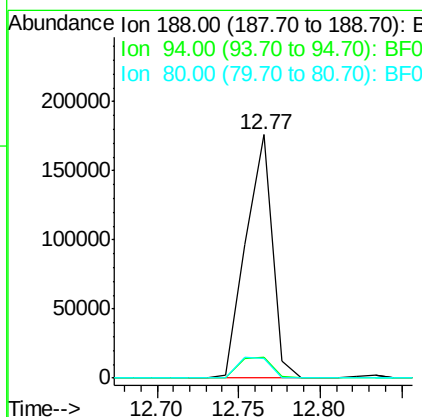
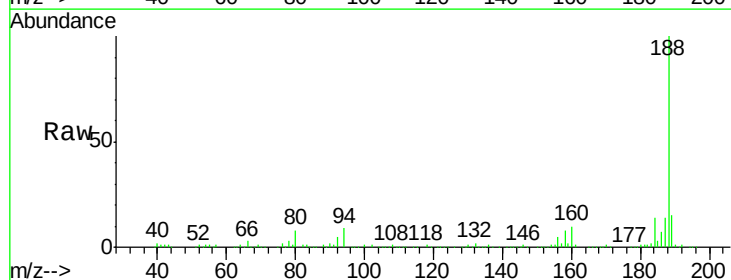
Instrument :
 BNA_F
 ClientSampleId :
 WC-03-D1

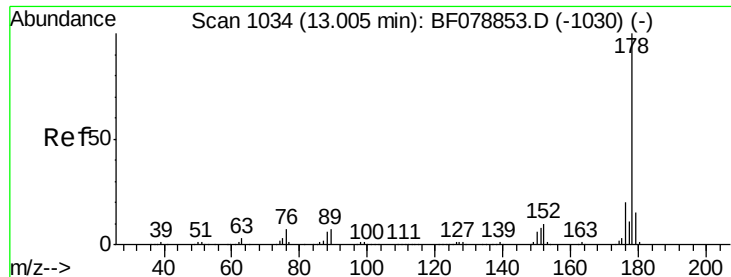
Tgt Ion:166 Resp: 70842
 Ion Ratio Lower Upper
 166 100
 165 97.7 79.5 119.3
 167 14.8 11.0 16.6



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.77 min Scan# 1013
 Delta R.T. 0.01 min
 Lab File: BF079331.D
 Acq: 19 May 2015 4:26

Tgt Ion:188 Resp: 197411
 Ion Ratio Lower Upper
 188 100
 94 8.6 9.4 14.0#
 80 8.0 9.8 14.6#

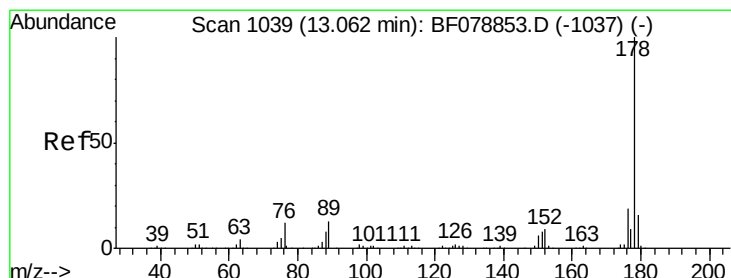
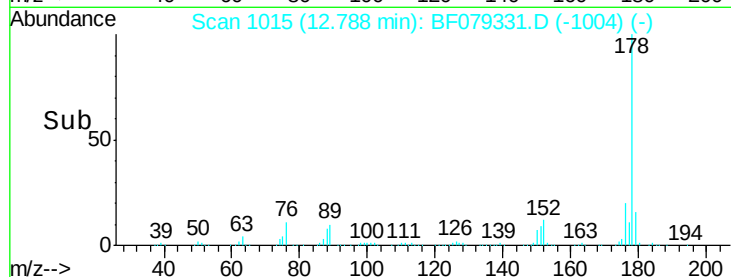
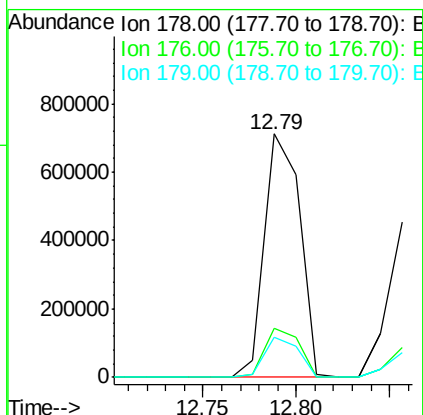
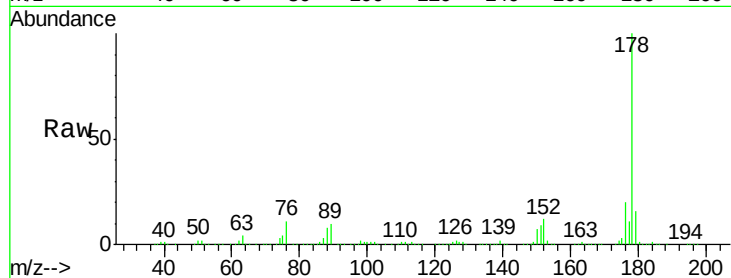




#70
Phenanthrene
Concen: 84.64 ng
RT: 12.79 min Scan# 1015
Delta R.T. 0.00 min
Lab File: BF079331.D
Acq: 19 May 2015 4:26

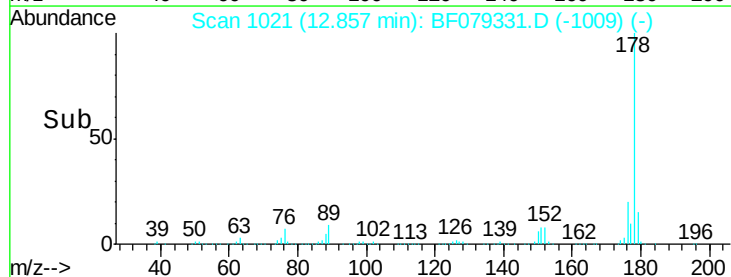
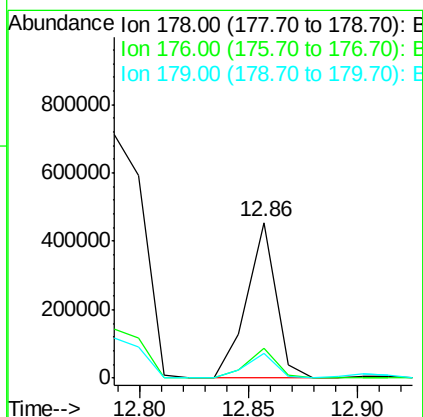
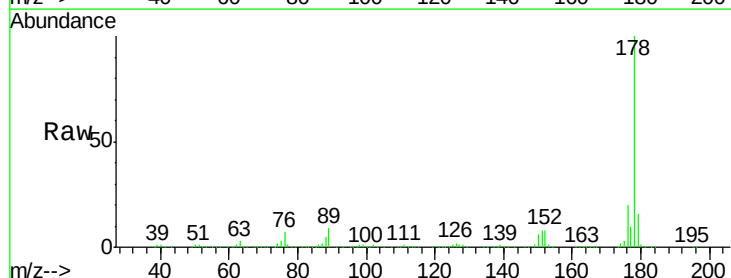
Instrument :
BNA_F
ClientSampleId :
WC-03-D1

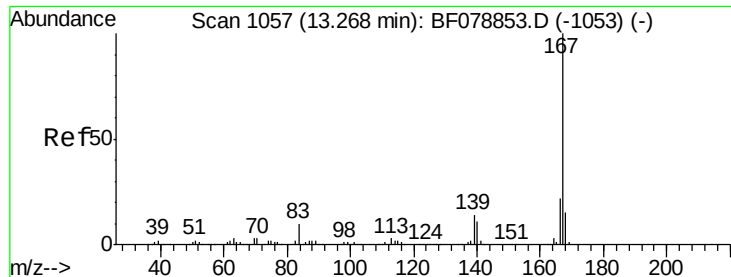
Tgt Ion:178 Resp: 934801
Ion Ratio Lower Upper
178 100
176 20.1 15.9 23.9
179 16.2 12.2 18.4



#71
Anthracene
Concen: 39.21 ng
RT: 12.86 min Scan# 1021
Delta R.T. 0.01 min
Lab File: BF079331.D
Acq: 19 May 2015 4:26

Tgt Ion:178 Resp: 424844
Ion Ratio Lower Upper
178 100
176 19.5 15.3 22.9
179 15.5 12.6 19.0





#72

Carbazole

Concen: 2.15 ng

RT: 13.06 min Scan# 1039

Delta R.T. 0.00 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

Instrument :

BNA_F

ClientSampleId :

WC-03-D1

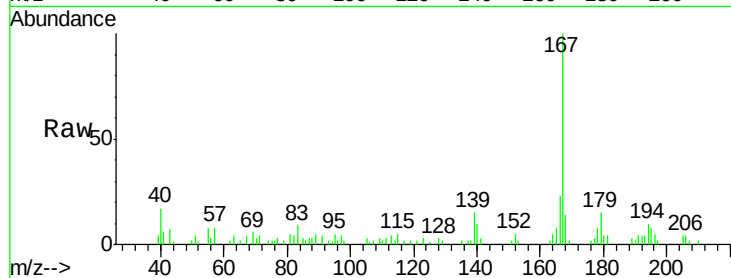
Tgt Ion:167 Resp: 22178

Ion Ratio Lower Upper

167 100

166 22.8 17.5 26.3

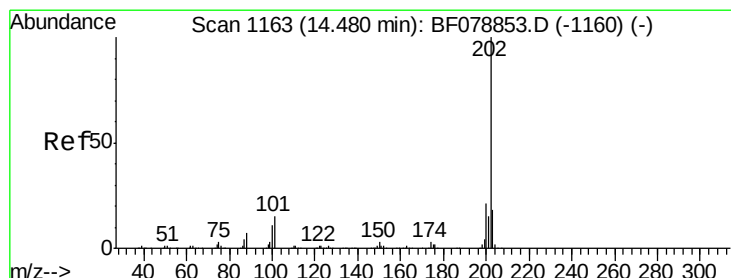
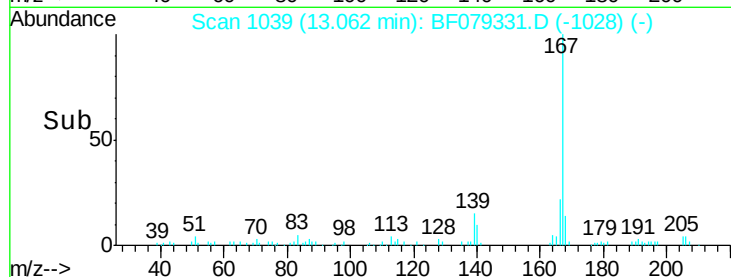
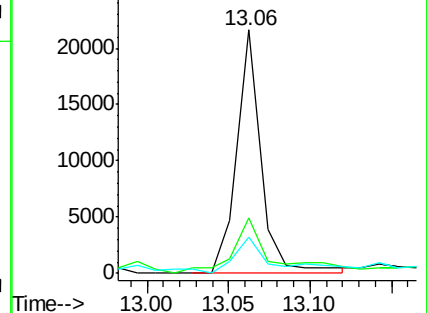
139 14.9 11.0 16.4



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: 178.11 ng

RT: 14.27 min Scan# 1145

Delta R.T. 0.01 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

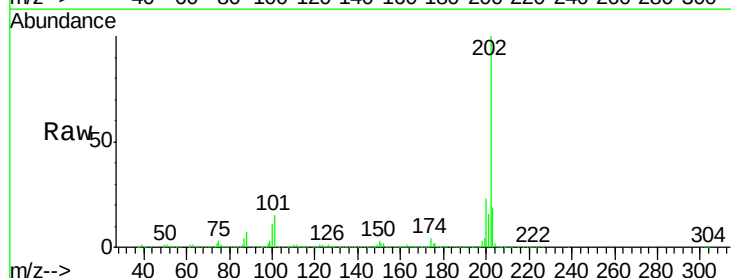
Tgt Ion:202 Resp: 2049709

Ion Ratio Lower Upper

202 100

101 14.8 0.0 34.7

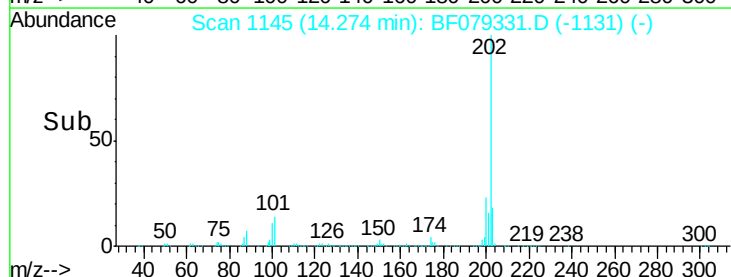
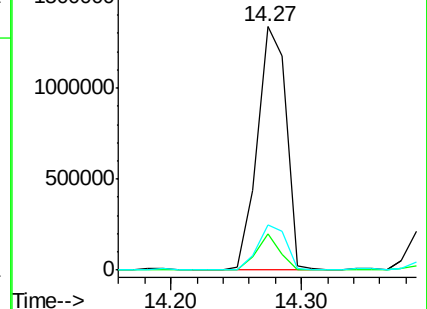
203 18.8 0.0 37.9

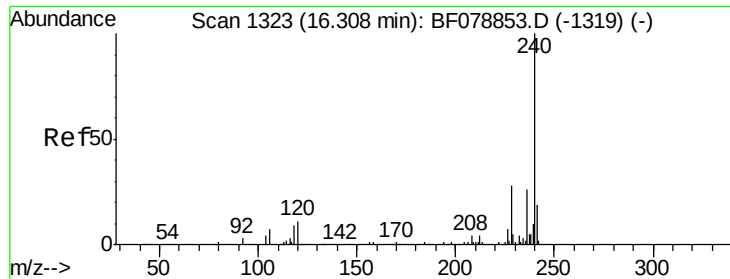


Abundance Ion 202.00 (201.70 to 202.70): E

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: 16.06 min Scan# 1301

Delta R.T. 0.00 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

Instrument :

BNA_F

ClientSampleId :

WC-03-D1

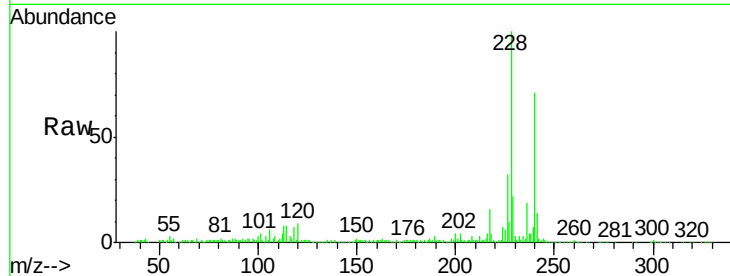
Tgt Ion:240 Resp: 190283

Ion Ratio Lower Upper

240 100

120 12.4 8.6 12.8

236 26.4 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

250000

200000

150000

100000

50000

0

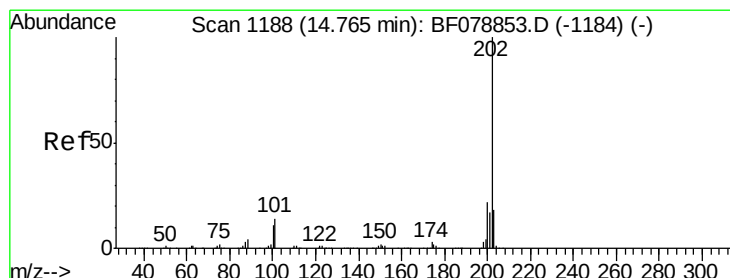
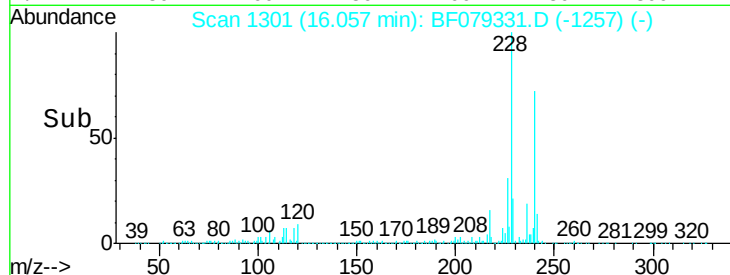
16.00

16.06

16.10

16.20

Time-->



#77

Pyrene

Concen: 160.77 ng

RT: 14.56 min Scan# 1170

Delta R.T. 0.02 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

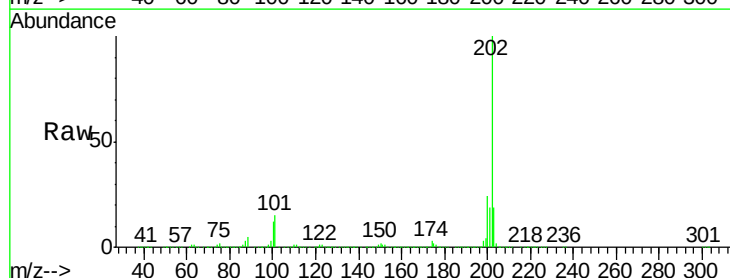
Tgt Ion:202 Resp: 1762870

Ion Ratio Lower Upper

202 100

200 23.6 17.5 26.3

203 19.0 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

2000000

1500000

1000000

500000

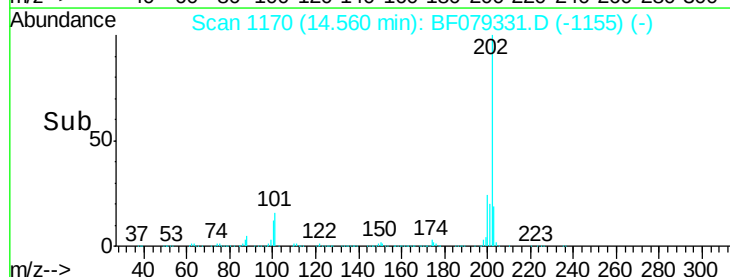
0

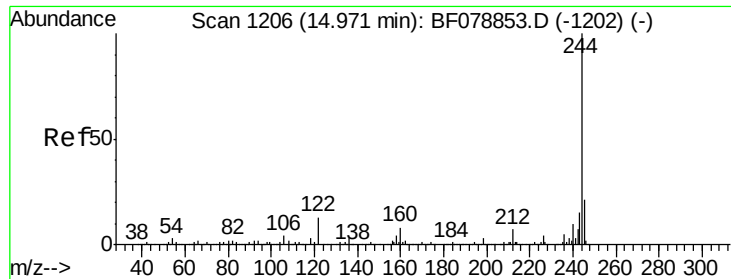
14.50

14.56

14.60

Time-->





#78

Terphenyl-d14

Concen: 81.51 ng

RT: 14.75 min Scan# 1187

Delta R.T. 0.00 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

Instrument :

BNA_F

ClientSampleId :

WC-03-D1

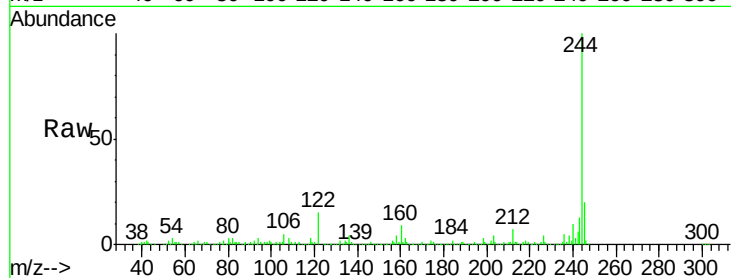
Tgt Ion:244 Resp: 647792

Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

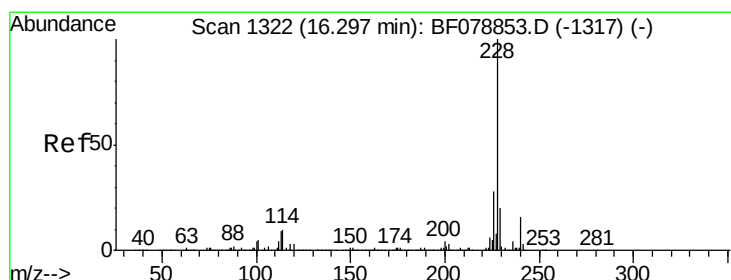
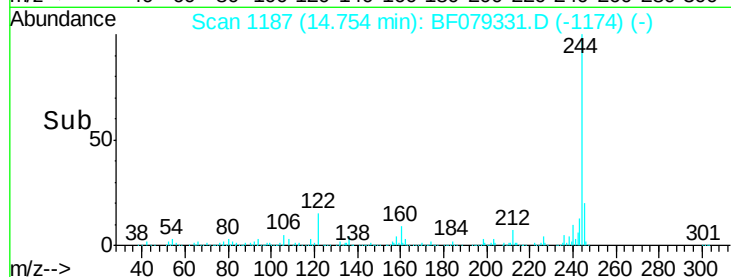
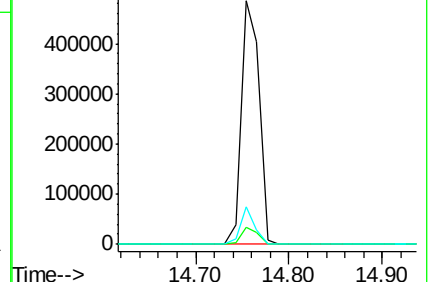
122 15.5 10.5 15.7



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: 88.85 ng

RT: 16.09 min Scan# 1304

Delta R.T. 0.05 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

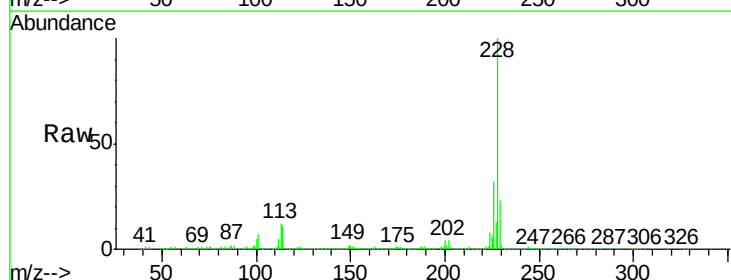
Tgt Ion:228 Resp: 925868

Ion Ratio Lower Upper

228 100

226 32.1 22.3 33.5

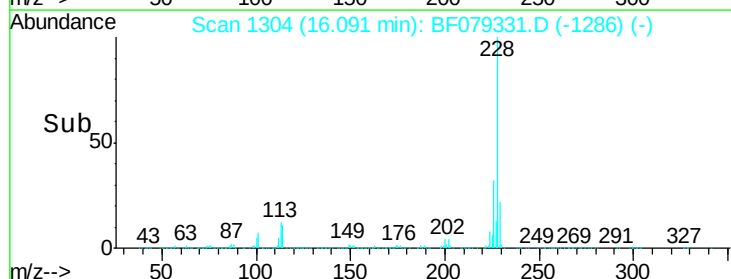
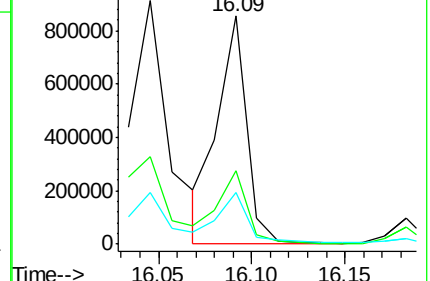
229 22.6 16.1 24.1

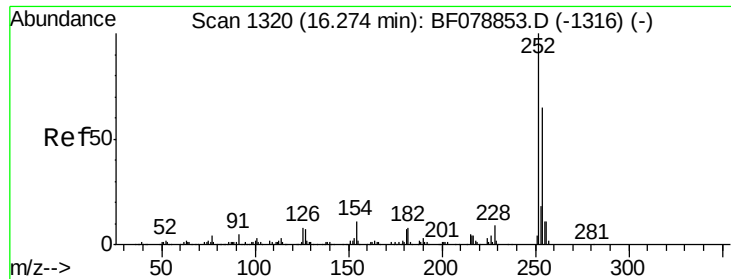


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

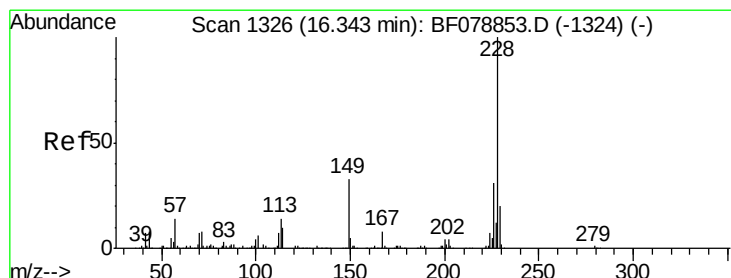
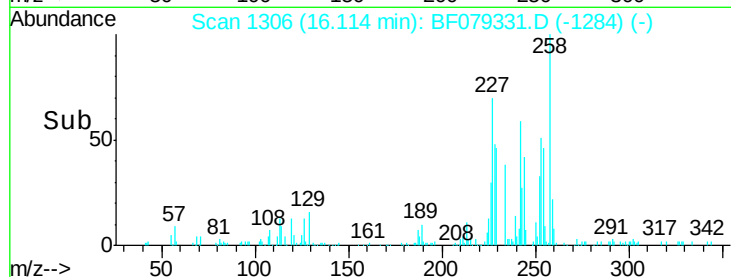
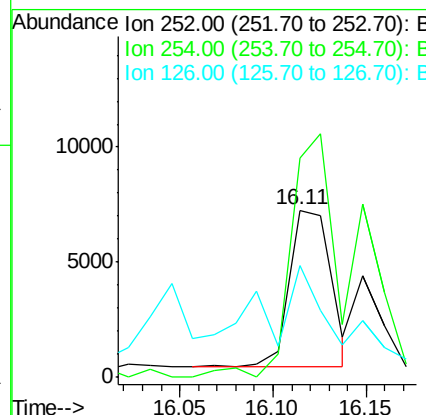
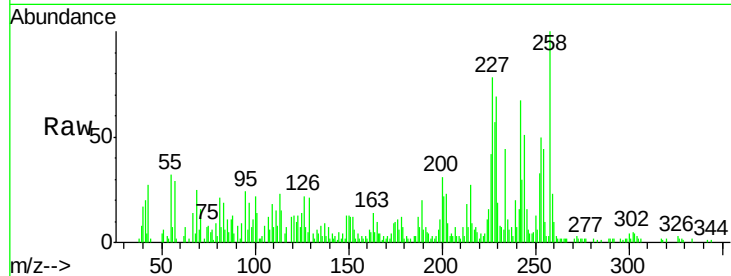




#81
 3,3'-Dichlorobenzidine
 Concen: 2.88 ng
 RT: 16.11 min Scan# 1306
 Delta R.T. 0.09 min
 Lab File: BF079331.D
 Acq: 19 May 2015 4:26

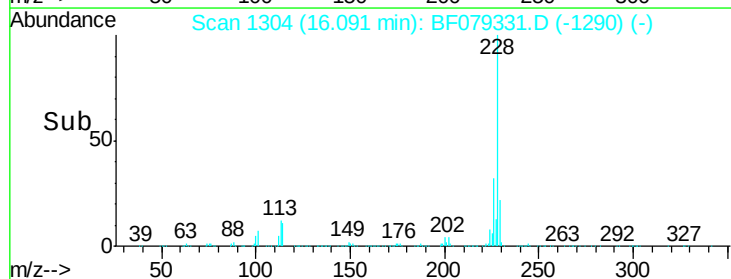
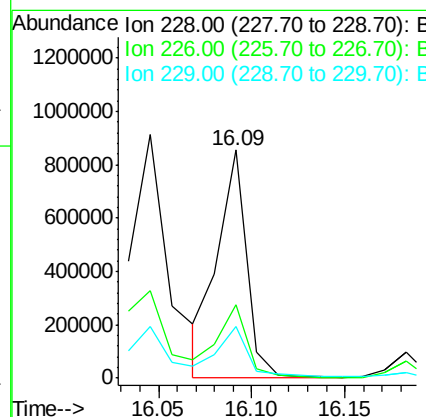
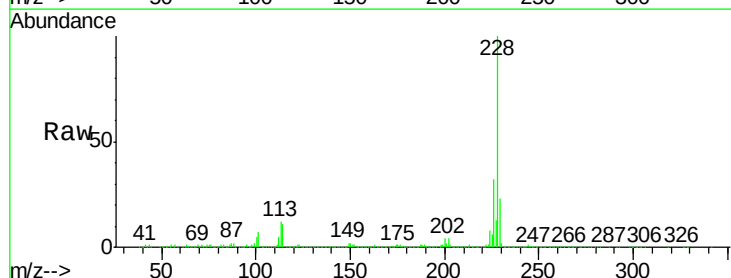
Instrument :
 BNA_F
 ClientSampleId :
 WC-03-D1

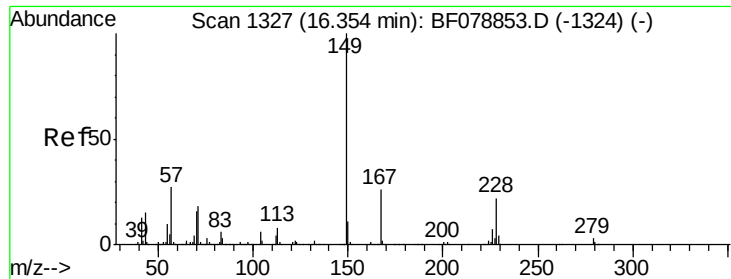
Tgt Ion: 252 Resp: 10685
 Ion Ratio Lower Upper
 252 100
 254 131.1 52.2 78.2#
 126 66.7 6.6 9.8#



#82
 Chrysene
 Concen: 92.12 ng
 RT: 16.09 min Scan# 1304
 Delta R.T. 0.00 min
 Lab File: BF079331.D
 Acq: 19 May 2015 4:26

Tgt Ion: 228 Resp: 923206
 Ion Ratio Lower Upper
 228 100
 226 32.1 24.8 37.2
 229 22.6 16.1 24.1





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.76 ng

RT: 16.09 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

Instrument :

BNA_F

ClientSampleId :

WC-03-D1

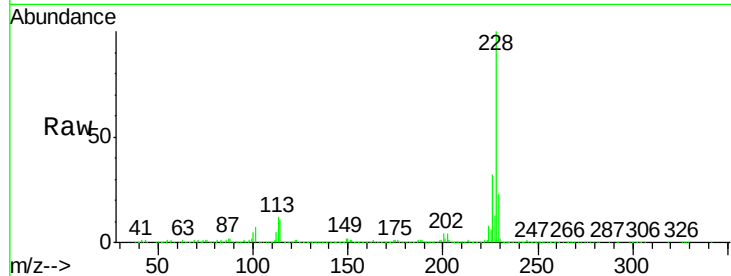
Tgt Ion:149 Resp: 20033

Ion Ratio Lower Upper

149 100

167 22.9 21.2 31.8

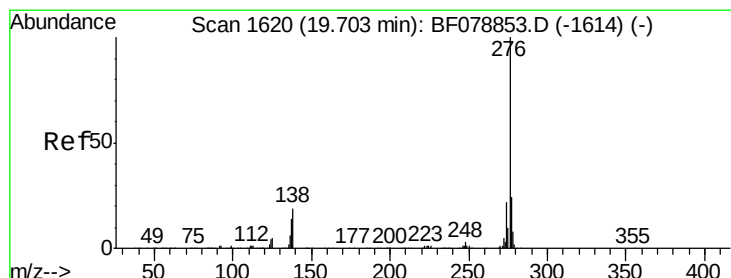
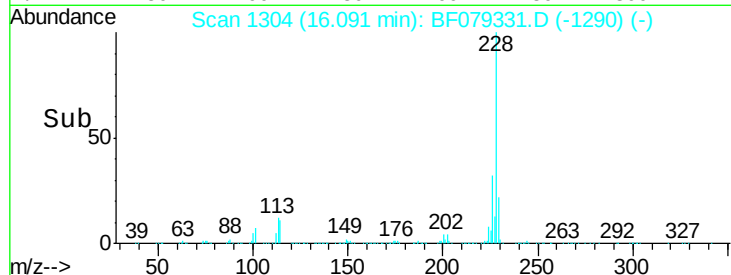
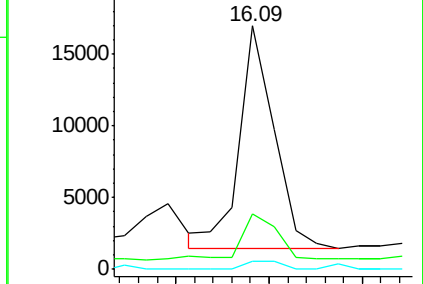
279 3.4 2.6 4.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 61.64 ng

RT: 19.20 min Scan# 1576

Delta R.T. -0.07 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

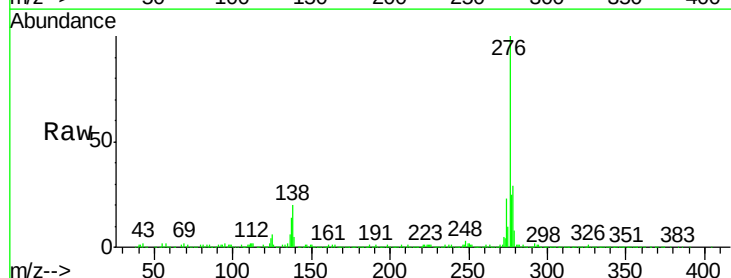
Tgt Ion:276 Resp: 787095

Ion Ratio Lower Upper

276 100

138 22.5 21.1 31.7

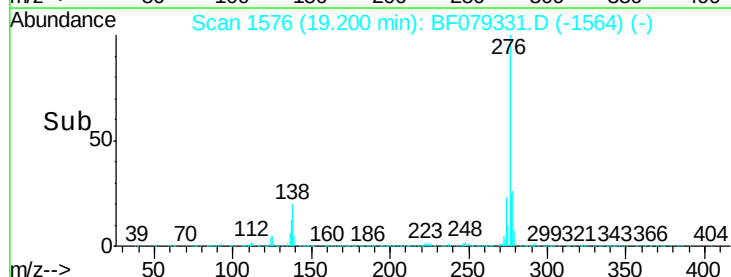
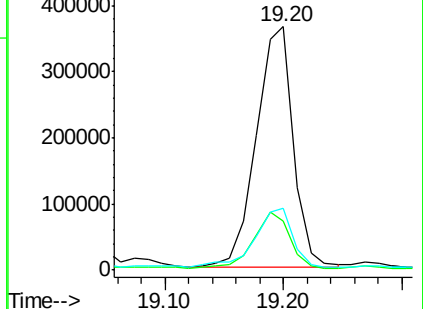
277 25.7 19.9 29.9

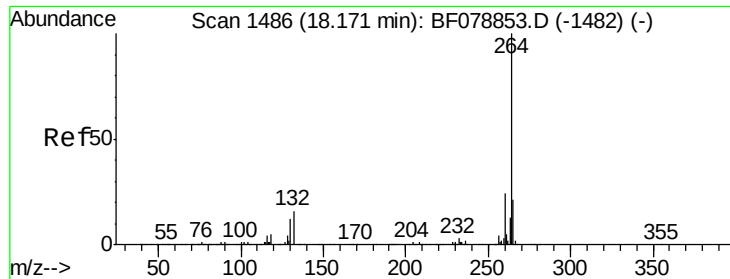


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



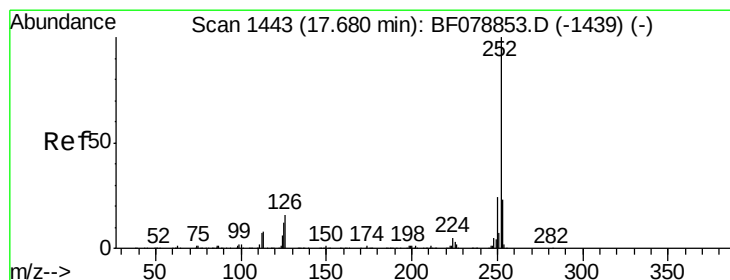
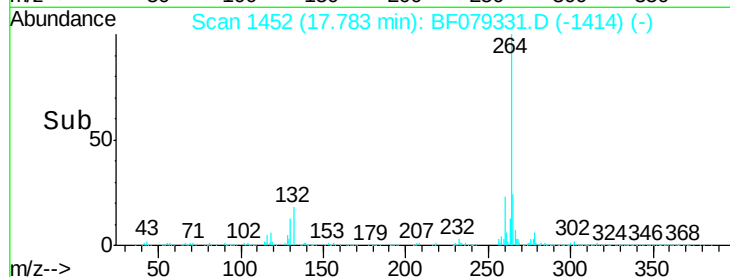
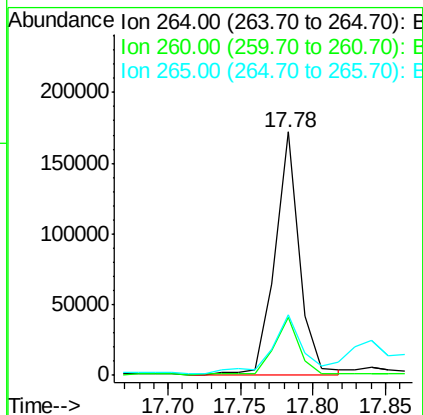
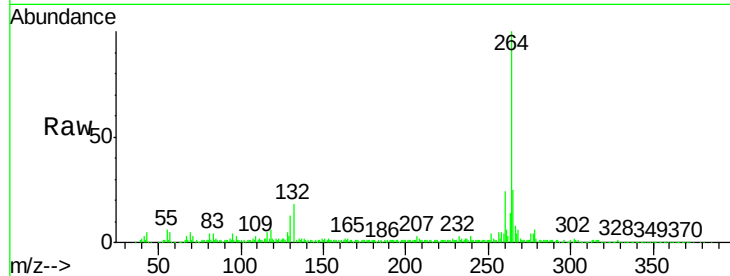


#86
Perylene-d12
Concen: 20.00 ng
RT: 17.78 min Scan# 1452
Delta R.T. -0.07 min
Lab File: BF079331.D
Acq: 19 May 2015 4:26

Instrument :
BNA_F
ClientSampleId :
WC-03-D1

Tgt Ion: 264 Resp: 198526

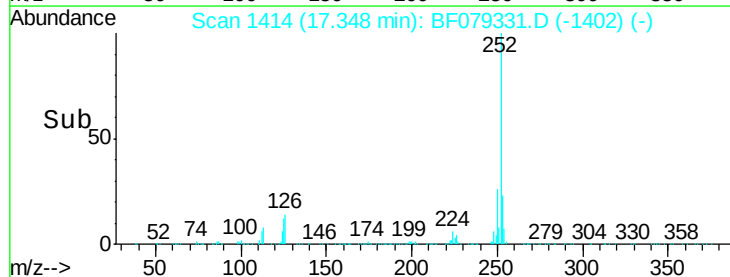
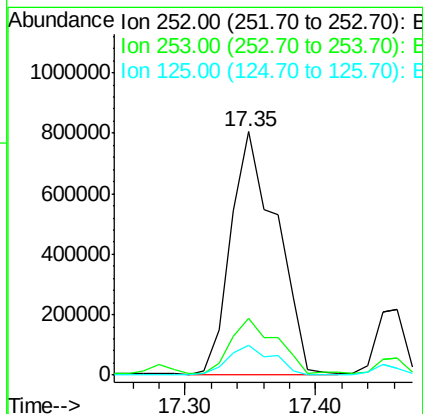
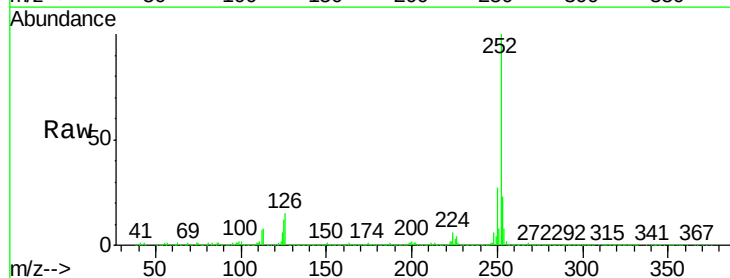
Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	25.0	17.2	25.8

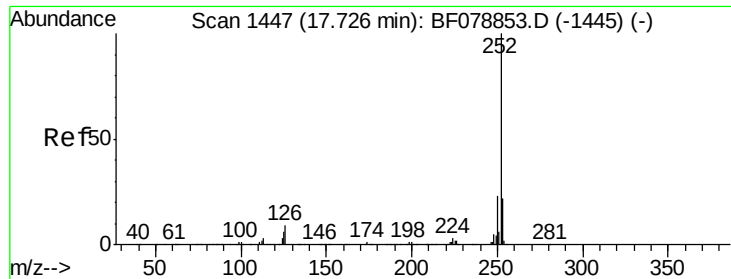


#87
Benzo(b)fluoranthene
Concen: 180.27 ng
RT: 17.35 min Scan# 1414
Delta R.T. -0.05 min
Lab File: BF079331.D
Acq: 19 May 2015 4:26

Tgt Ion: 252 Resp: 1958886

Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.1	27.1
125	12.3	9.4	14.2

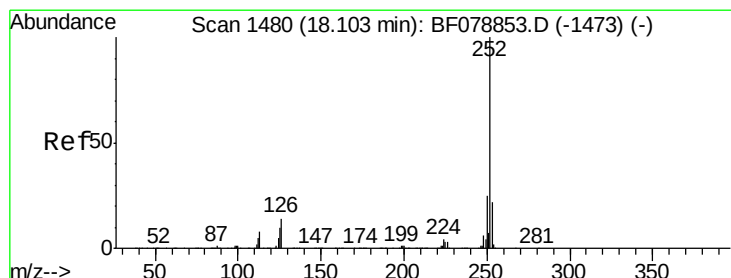
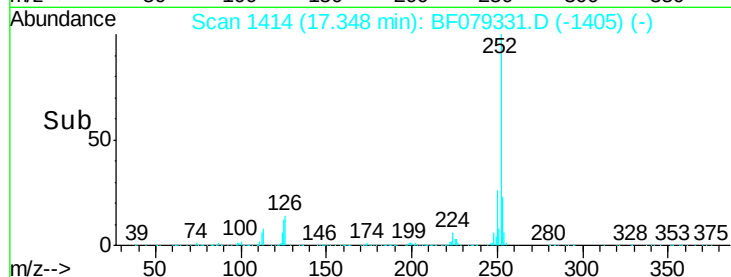
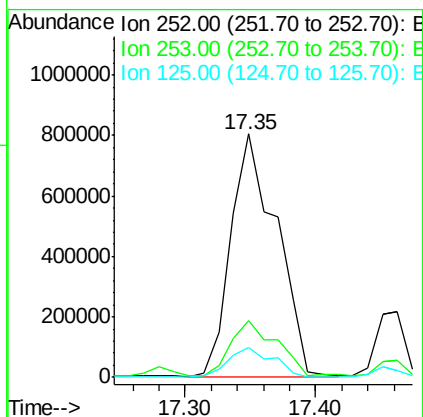
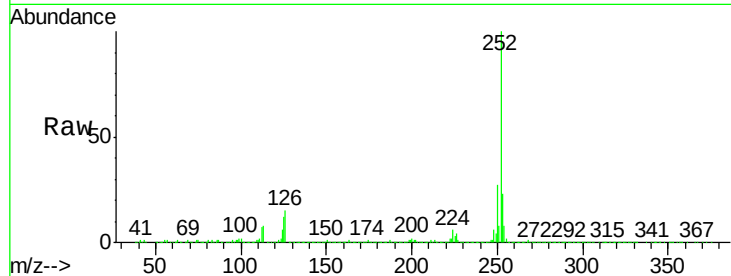




#88
Benzo(k)fluoranthene
Concen: 186.21 ng
RT: 17.35 min Scan# 1414
Delta R.T. -0.08 min
Lab File: BF079331.D
Acq: 19 May 2015 4:26

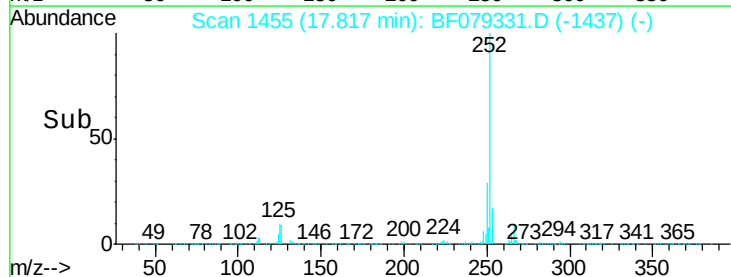
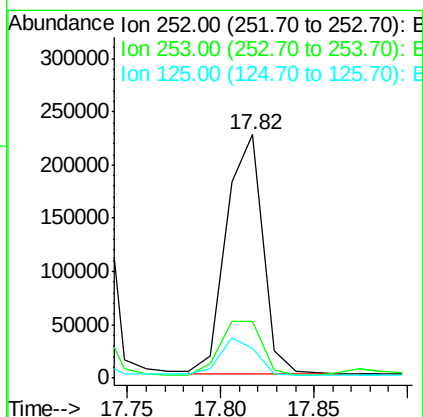
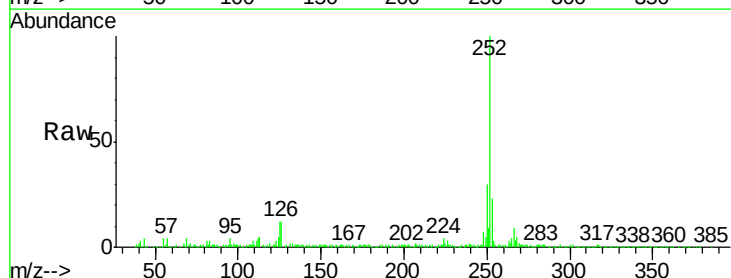
Instrument :
BNA_F
ClientSampleId :
WC-03-D1

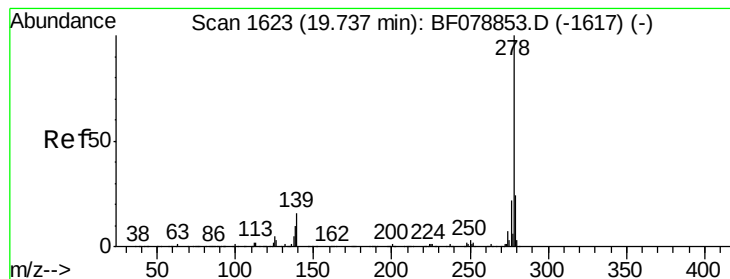
Tgt Ion:252 Resp: 1958886
Ion Ratio Lower Upper
252 100
253 23.3 17.4 26.0
125 12.3 6.1 9.1#



#89
Benzo(a)pyrene
Concen: 30.52 ng
RT: 17.82 min Scan# 1455
Delta R.T. 0.02 min
Lab File: BF079331.D
Acq: 19 May 2015 4:26

Tgt Ion:252 Resp: 305419
Ion Ratio Lower Upper
252 100
253 23.2 18.0 27.0
125 12.1 8.2 12.2





#90

Dibenzo(a,h)anthracene

Concen: 17.54 ng

RT: 19.20 min Scan# 1576

Delta R.T. -0.10 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

Instrument :

BNA_F

ClientSampleId :

WC-03-D1

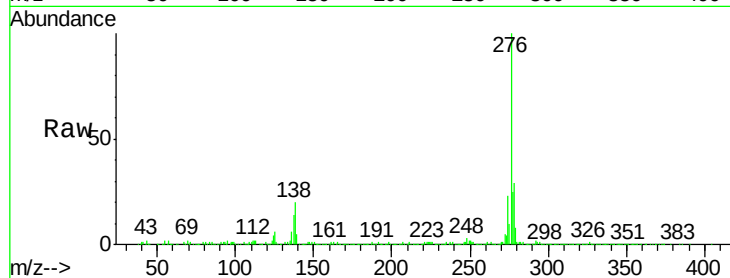
Tgt Ion: 278 Resp: 186464

Ion Ratio Lower Upper

278 100

139 18.8 13.1 19.7

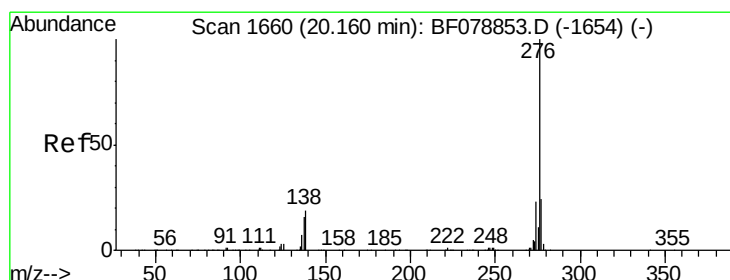
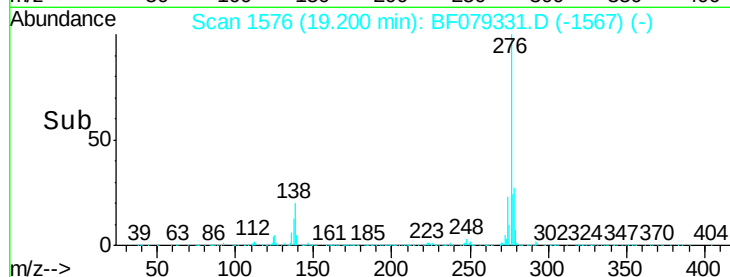
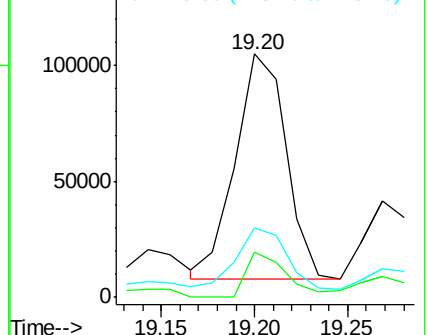
279 28.5 19.1 28.7



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: 67.71 ng

RT: 19.61 min Scan# 1612

Delta R.T. -0.08 min

Lab File: BF079331.D

Acq: 19 May 2015 4:26

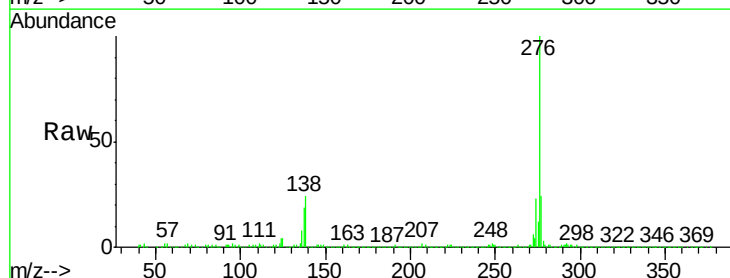
Tgt Ion: 276 Resp: 721663

Ion Ratio Lower Upper

276 100

277 24.4 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

