

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051515\
 Data File : BF079292.D
 Acq On : 16 May 2015 4:21
 Operator : TP/IZ
 Sample : G2215-09DL 4X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-38SDL

Quant Time: May 16 05:05:14 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat May 16 04:02:20 2015
 Response via : Initial Calibration

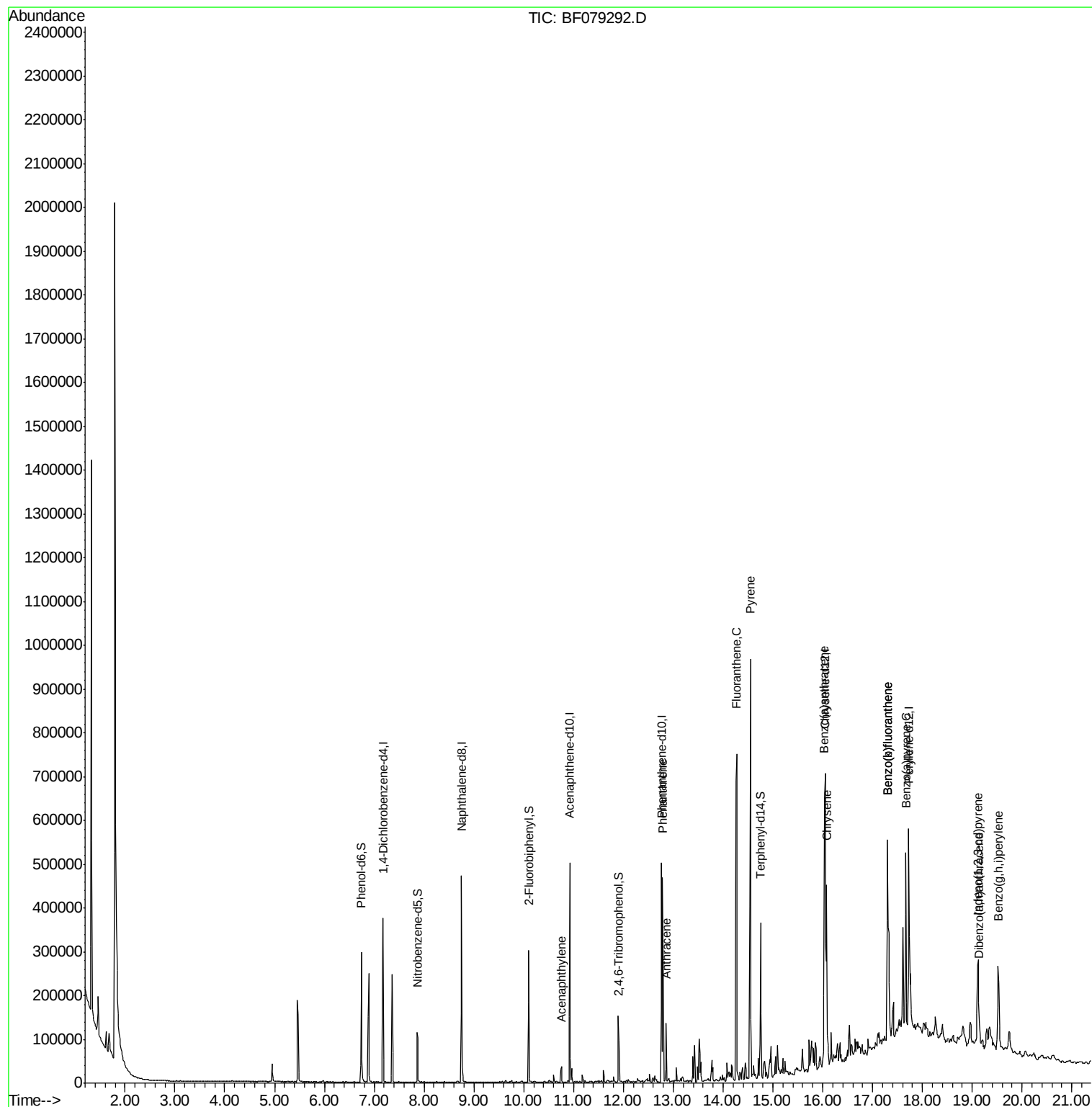
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.18	152	55954	20.00	ng	0.00
21) Naphthalene-d8	8.75	136	227030	20.00	ng	0.00
38) Acenaphthene-d10	10.92	164	104032	20.00	ng	0.00
63) Phenanthrene-d10	12.77	188	196825	20.00	ng	0.00
75) Chrysene-d12	16.05	240	199210	20.00	ng	-0.01
86) Perylene-d12	17.73	264	209292	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.74	99	100829	23.47	ng	0.00
23) Nitrobenzene-d5	7.86	82	51401	13.01	ng	-0.01
41) 2,4,6-Tribromophenol	11.91	330	21260	18.89	ng	0.00
44) 2-Fluorobiphenyl	10.10	172	120220	16.10	ng	0.00
78) Terphenyl-d14	14.75	244	125202	15.05	ng	-0.01
Target Compounds						Qvalue
48) Acenaphthylene	10.75	152	22978	2.17	ng	98
70) Phenanthrene	12.79	178	220177	20.00	ng	99
71) Anthracene	12.86	178	54832	5.08	ng	99
74) Fluoranthene	14.27	202	451850	39.38	ng	92
77) Pyrene	14.55	202	407379	35.49	ng	99
80) Benzo(a)anthracene	16.03	228	233465	21.40	ng	97
82) Chrysene	16.08	228	176141	16.79	ng	98
85) Indeno(1,2,3-cd)pyrene	19.12	276	154236	11.54	ng	# 94
87) Benzo(b)fluoranthene	17.30	252	372773	32.54	ng	98
88) Benzo(k)fluoranthene	17.30	252	372773	33.61	ng	# 98
89) Benzo(a)pyrene	17.67	252	209317	19.84	ng	98
90) Dibenzo(a,h)anthracene	19.13	278	31827	2.84	ng	# 89
91) Benzo(g,h,i)perylene	19.52	276	152833	13.60	ng	# 95

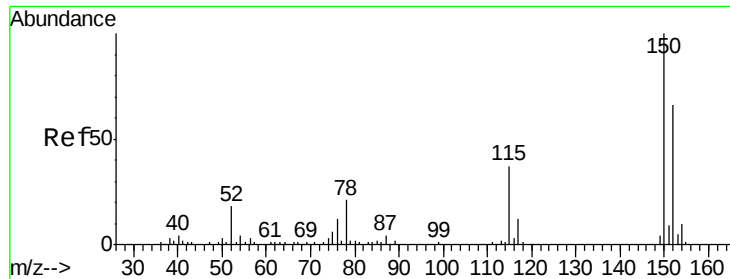
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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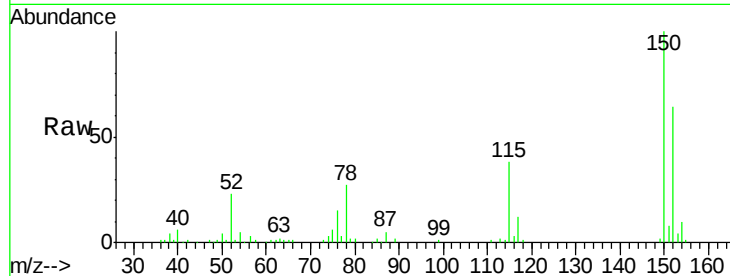




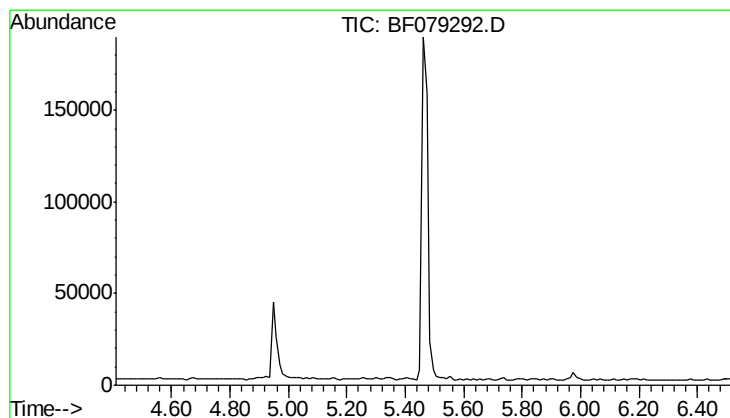
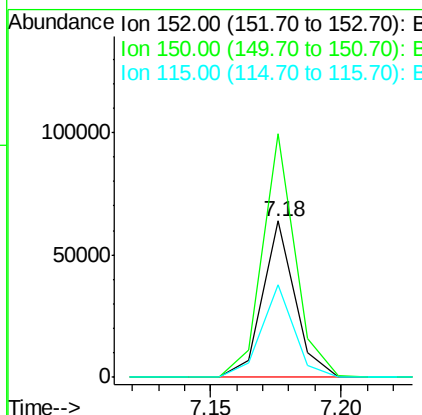
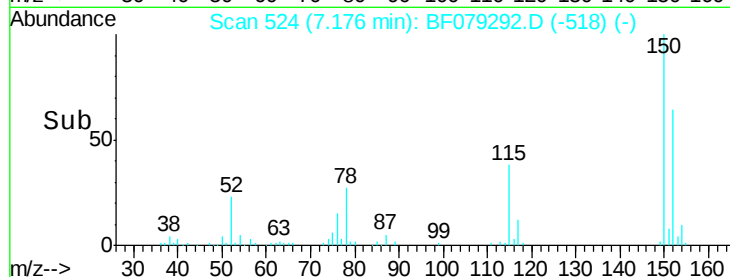
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.18 min Scan# 524
 Delta R.T. 0.00 min
 Lab File: BF079292.D
 Acq: 16 May 2015 4:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-38SDL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.6	123.8	185.8
115	58.8	49.4	74.0

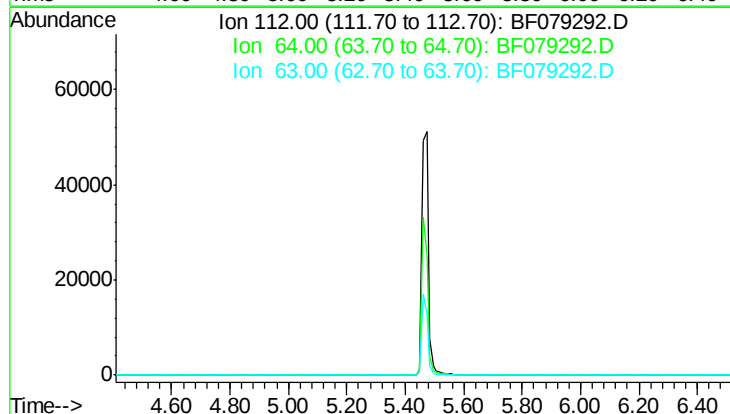


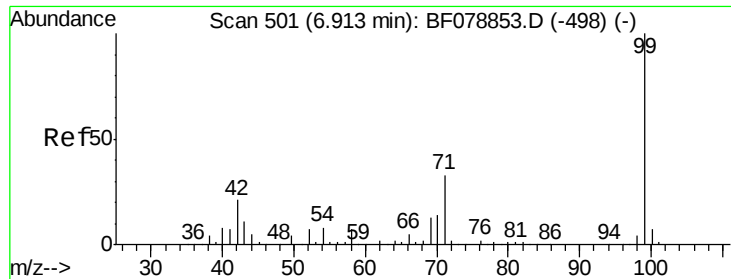
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 0.00 ng
 Expected RT: 5.46 min
 Lab File: BF079292.D
 Acq: 16 May 2015 4:21

Tgt Ion	Sig	Exp Ratio
112	100	
64	55.2	
63	28.4	





#7

Phenol-d6

Concen: 23.47 ng

RT: 6.74 min Scan# 486

Delta R.T. 0.00 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

Instrument :

BNA_F

ClientSampleId :

SB-38SDL

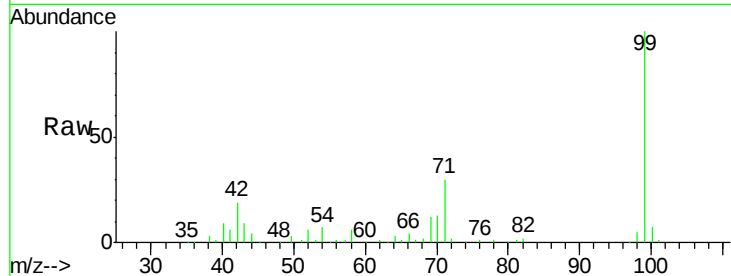
Tgt Ion: 99 Resp: 100829

Ion Ratio Lower Upper

99 100

42 18.6 17.1 25.7

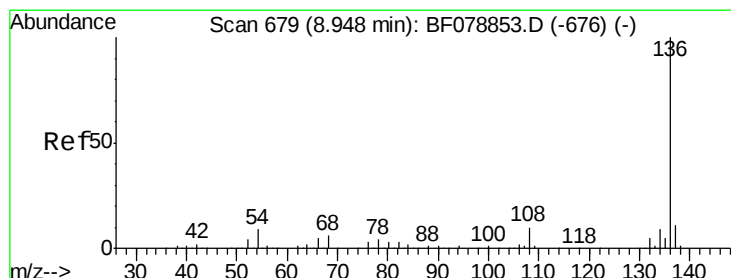
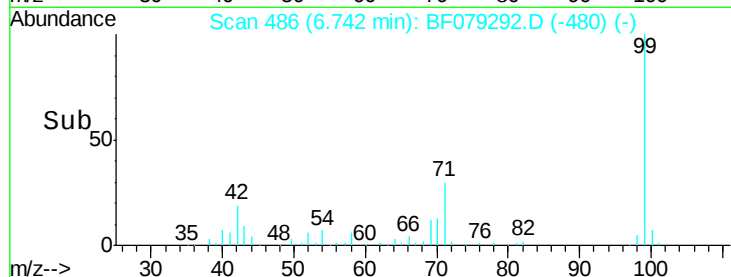
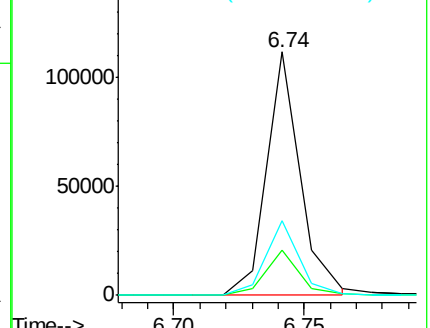
71 30.5 26.3 39.5



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: 8.75 min Scan# 662

Delta R.T. 0.00 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

Tgt Ion: 136 Resp: 227030

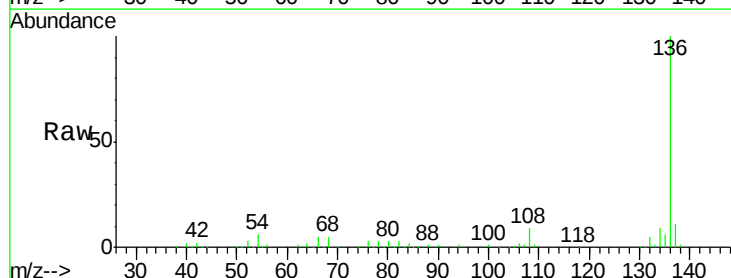
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 6.4 6.9 10.3#

68 5.2 4.9 7.3

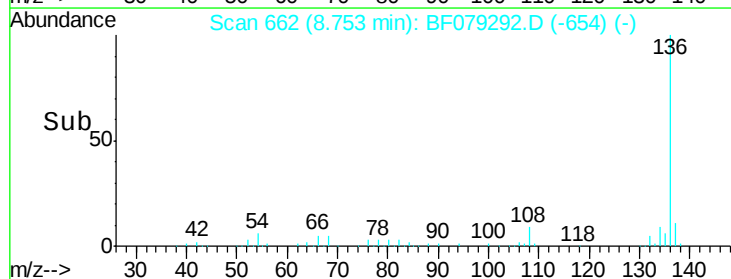
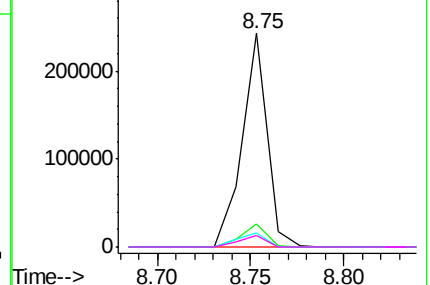


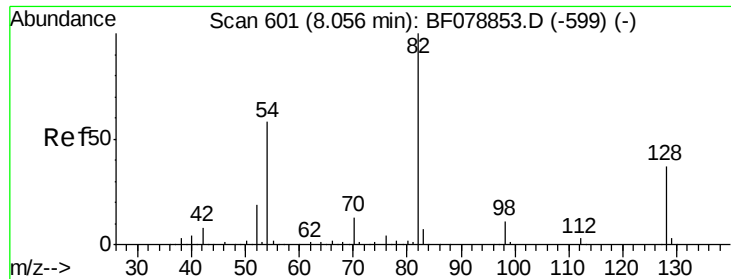
Abundance Ion 136.00 (135.70 to 136.70): E

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

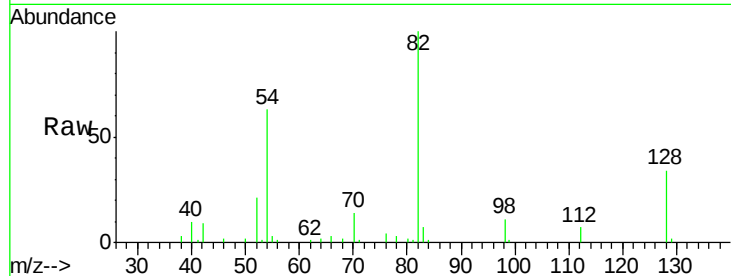




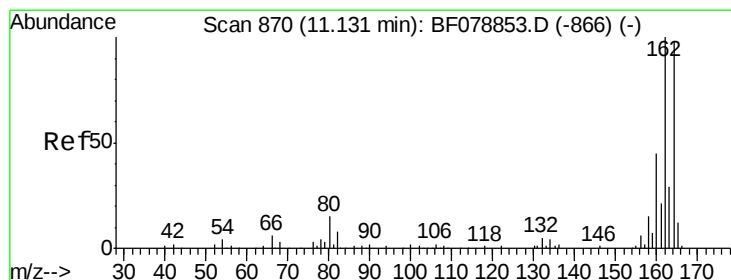
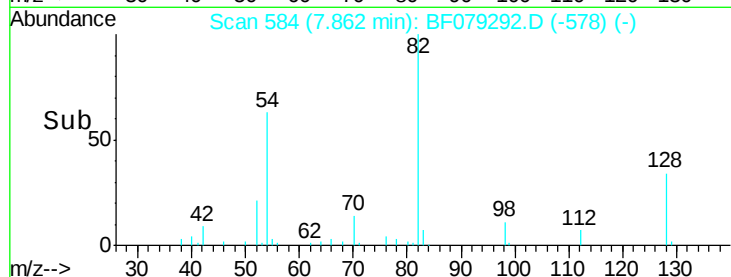
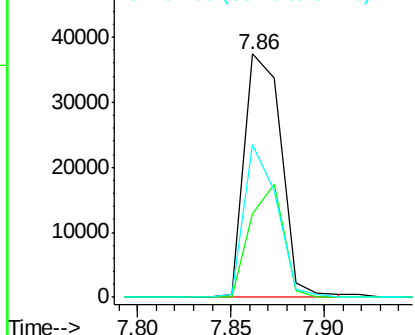
#23
 Nitrobenzene-d5
 Concen: 13.01 ng
 RT: 7.86 min Scan# 584
 Delta R.T. -0.01 min
 Lab File: BF079292.D
 Acq: 16 May 2015 4:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-38SDL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	34.3	29.7	44.5
54	62.8	46.2	69.4

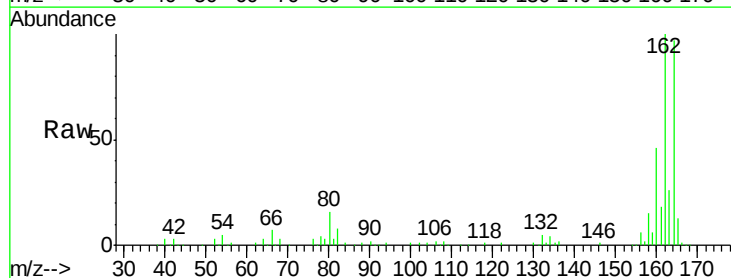


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

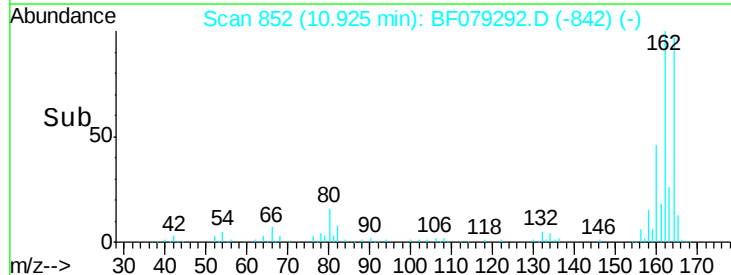
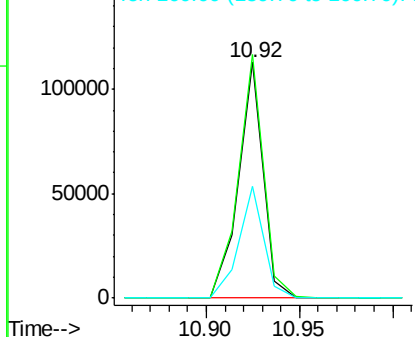


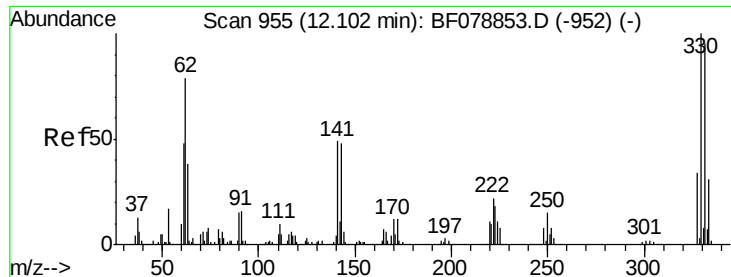
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.92 min Scan# 852
 Delta R.T. 0.00 min
 Lab File: BF079292.D
 Acq: 16 May 2015 4:21

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.4	81.4	122.0
160	47.6	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

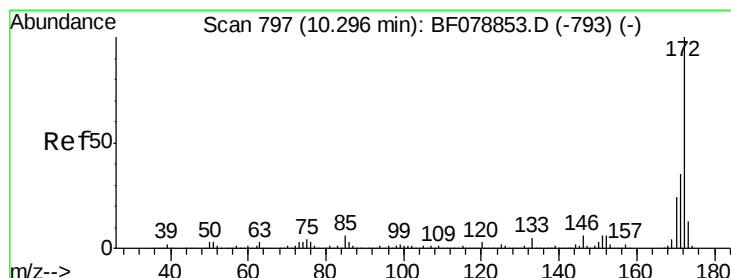
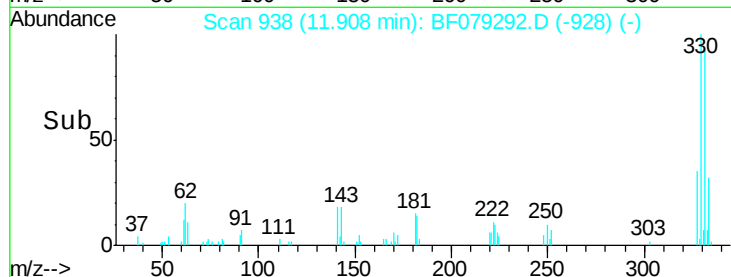
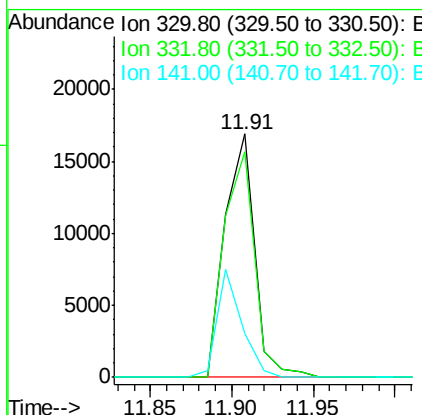
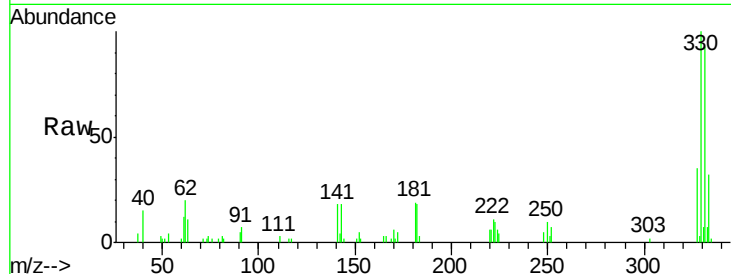




#41
 2,4,6-Tribromophenol
 Concen: 18.89 ng
 RT: 11.91 min Scan# 938
 Delta R.T. 0.00 min
 Lab File: BF079292.D
 Acq: 16 May 2015 4:21

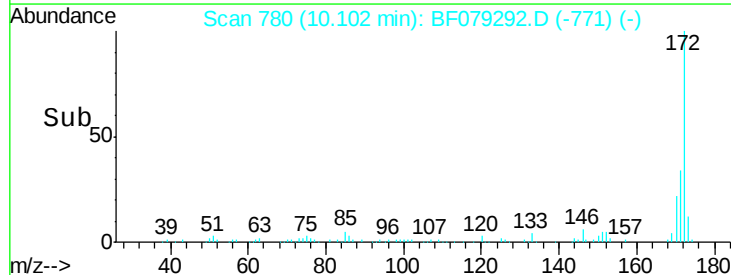
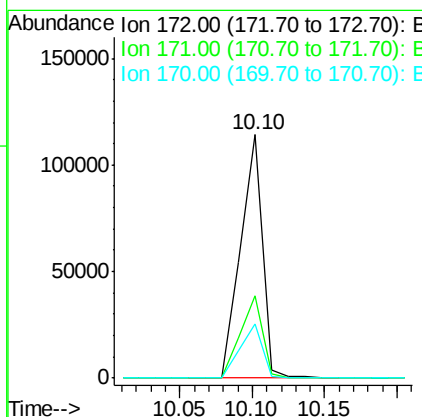
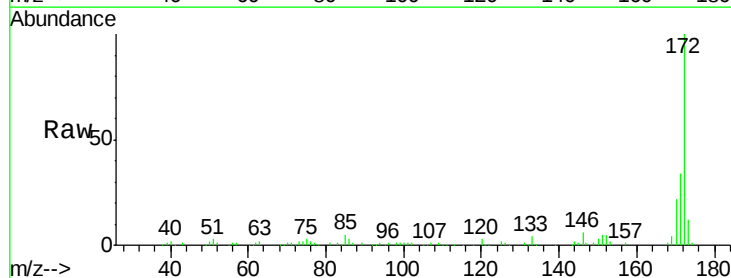
Instrument :
 BNA_F
 ClientSampleId :
 SB-38SDL

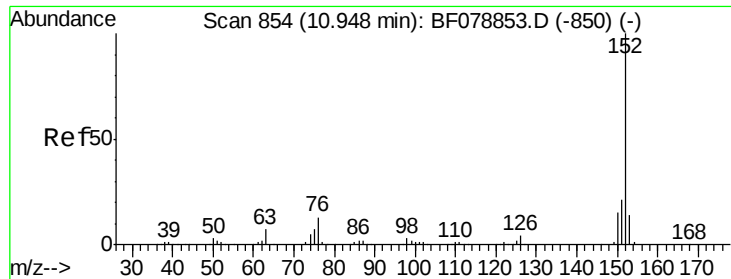
Tgt Ion:330 Resp: 21260
 Ion Ratio Lower Upper
 330 100
 332 95.4 76.9 115.3
 141 37.2 27.8 41.8



#44
 2-Fluorobiphenyl
 Concen: 16.10 ng
 RT: 10.10 min Scan# 780
 Delta R.T. 0.00 min
 Lab File: BF079292.D
 Acq: 16 May 2015 4:21

Tgt Ion:172 Resp: 120220
 Ion Ratio Lower Upper
 172 100
 171 33.8 28.3 42.5
 170 22.2 19.4 29.2





#48

Acenaphthylene

Concen: 2.17 ng

RT: 10.75 min Scan# 837

Delta R.T. 0.00 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

Instrument :

BNA_F

ClientSampleId :

SB-38SDL

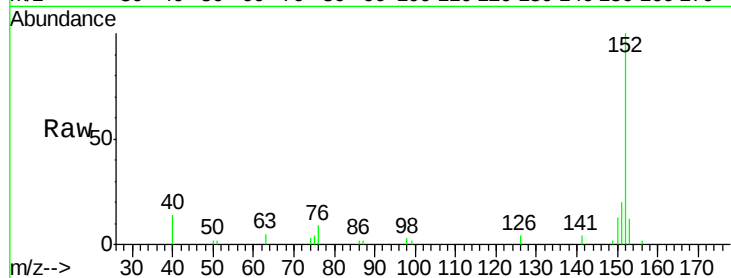
Tgt Ion:152 Resp: 22978

Ion Ratio Lower Upper

152 100

151 20.3 16.6 24.8

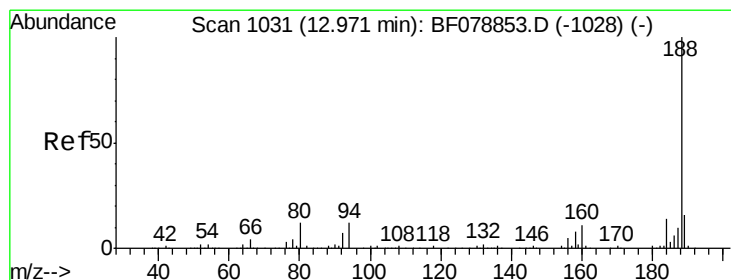
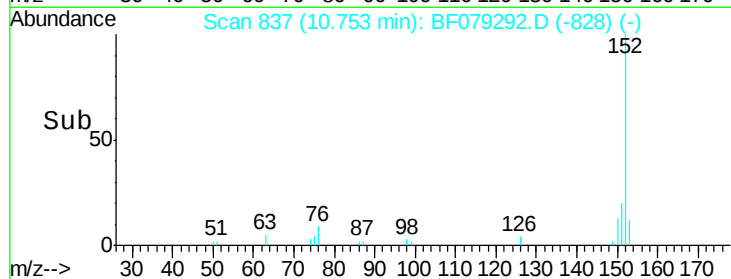
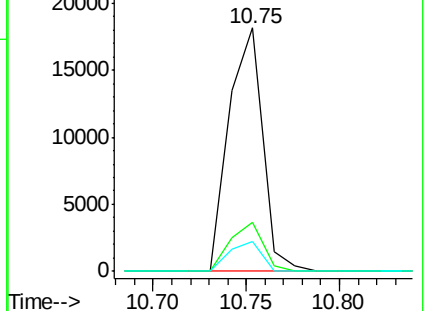
153 12.2 11.0 16.6



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.77 min Scan# 1013

Delta R.T. 0.00 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

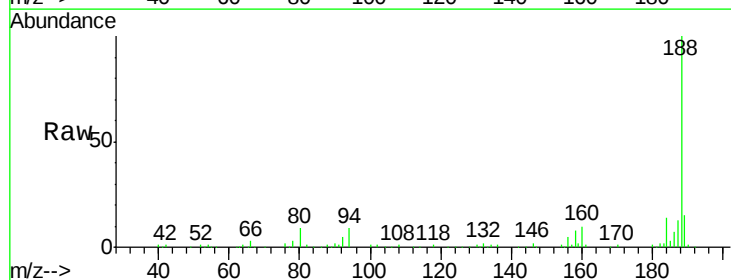
Tgt Ion:188 Resp: 196825

Ion Ratio Lower Upper

188 100

94 9.0 9.4 14.0#

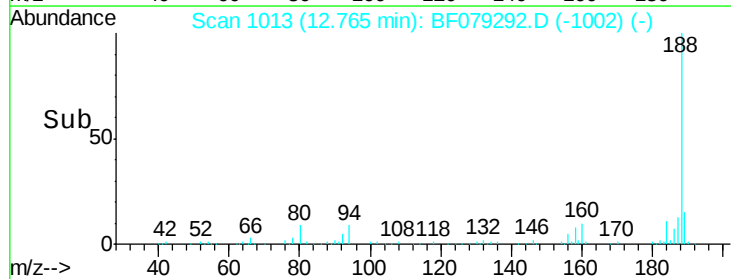
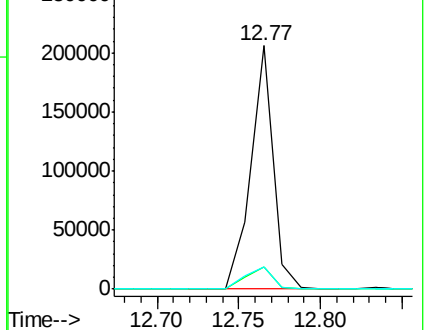
80 9.1 9.8 14.6#

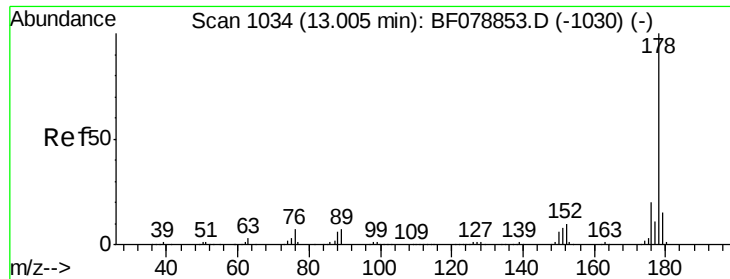


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

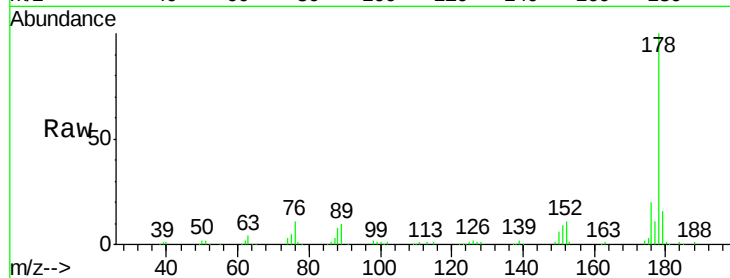




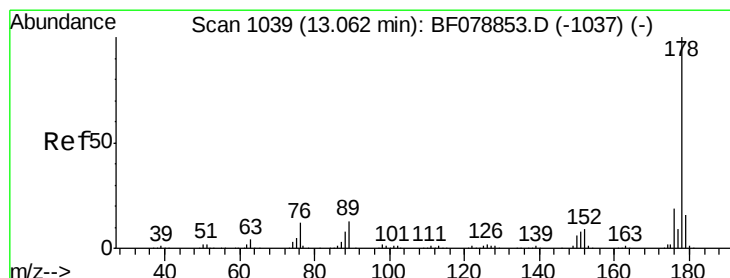
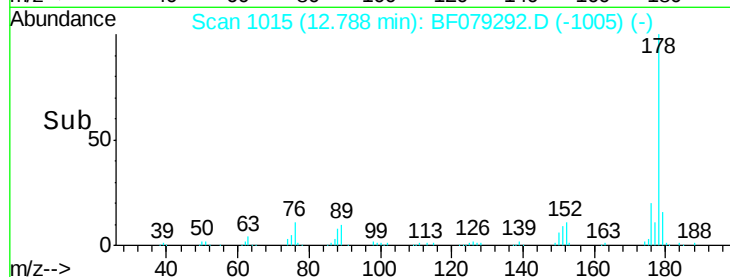
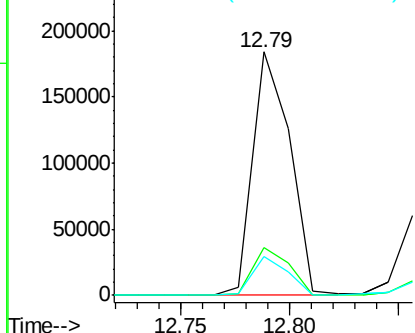
#70
Phenanthrene
Concen: 20.00 ng
RT: 12.79 min Scan# 1015
Delta R.T. -0.01 min
Lab File: BF079292.D
Acq: 16 May 2015 4:21

Instrument :
BNA_F
ClientSampleId :
SB-38SDL

Tgt Ion:178 Resp: 220177
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 15.8 12.2 18.4

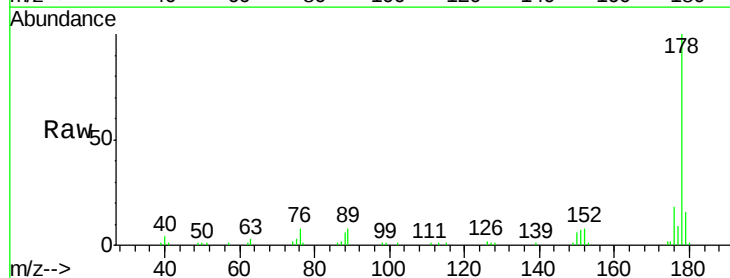


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

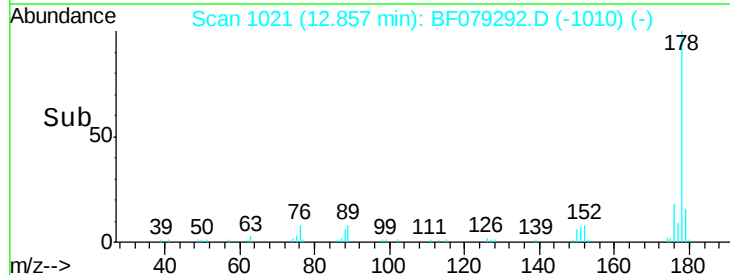
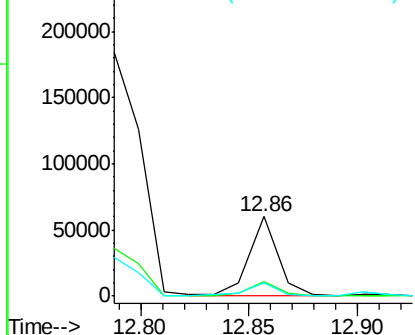


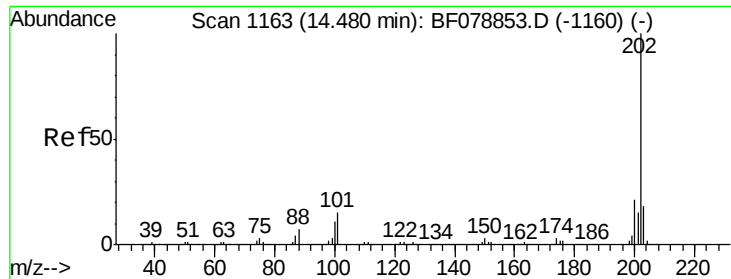
#71
Anthracene
Concen: 5.08 ng
RT: 12.86 min Scan# 1021
Delta R.T. 0.00 min
Lab File: BF079292.D
Acq: 16 May 2015 4:21

Tgt Ion:178 Resp: 54832
Ion Ratio Lower Upper
178 100
176 18.2 15.3 22.9
179 15.9 12.6 19.0



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





#74

Fluoranthene

Concen: 39.38 ng

RT: 14.27 min Scan# 1145

Delta R.T. 0.00 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

Instrument :

BNA_F

ClientSampleId :

SB-38SDL

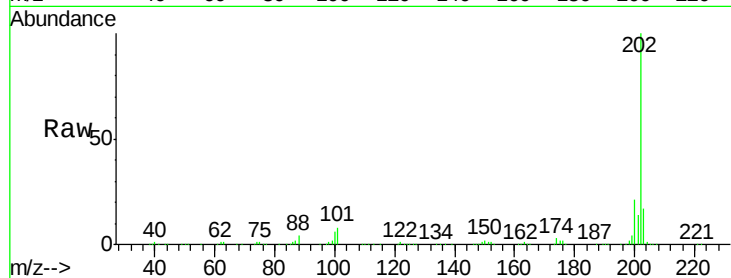
Tgt Ion:202 Resp: 451850

Ion Ratio Lower Upper

202 100

101 8.0 0.0 34.7

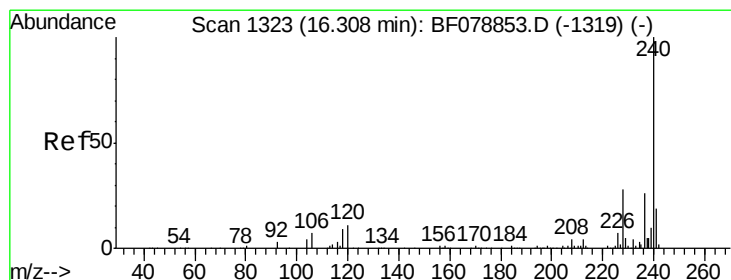
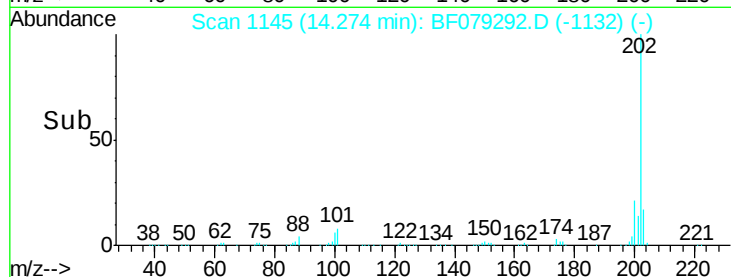
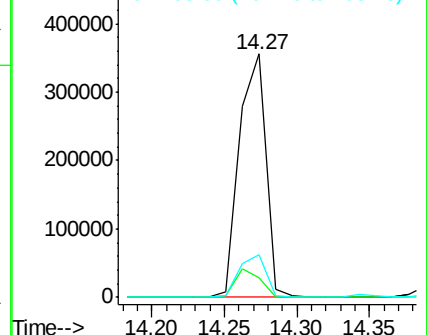
203 17.3 0.0 37.9



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: 16.05 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

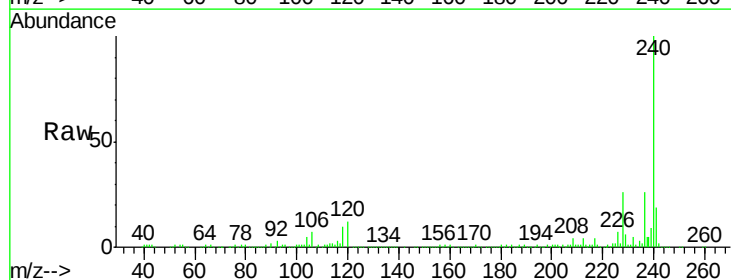
Tgt Ion:240 Resp: 199210

Ion Ratio Lower Upper

240 100

120 11.8 8.6 12.8

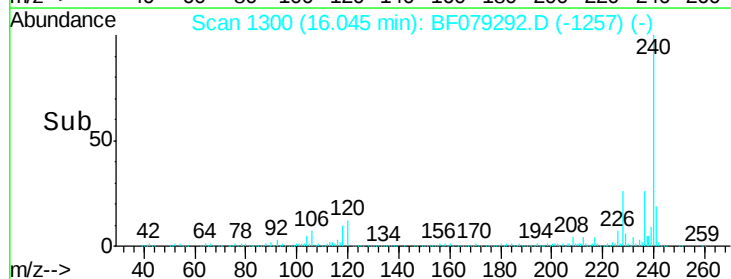
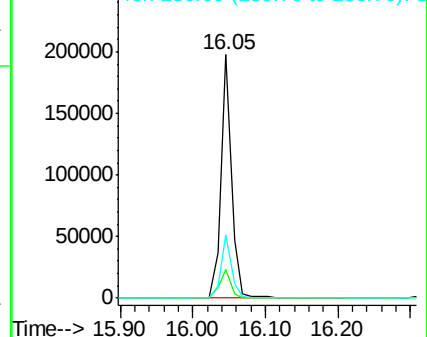
236 26.0 21.0 31.6

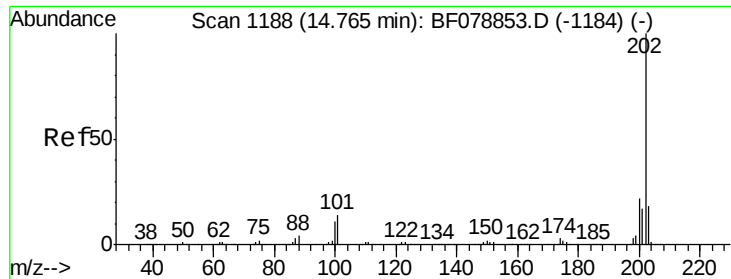


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 35.49 ng

RT: 14.55 min Scan# 1169

Delta R.T. 0.00 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

Instrument :

BNA_F

ClientSampleId :

SB-38SDL

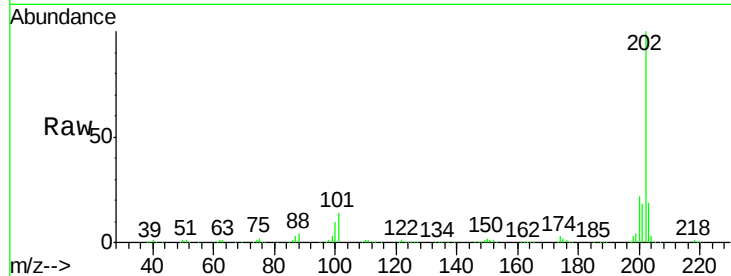
Tgt Ion: 202 Resp: 407379

Ion Ratio Lower Upper

202 100

200 22.1 17.5 26.3

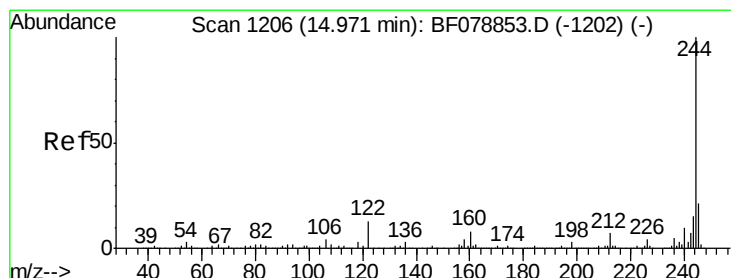
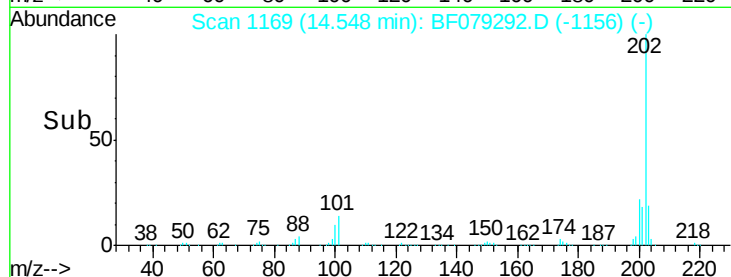
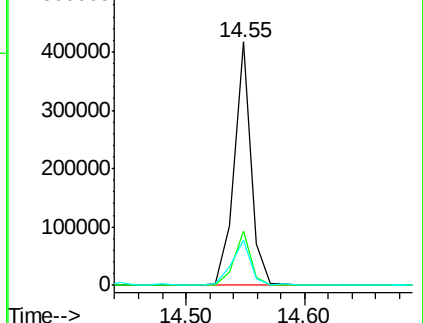
203 18.7 14.7 22.1



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: 15.05 ng

RT: 14.75 min Scan# 1187

Delta R.T. -0.01 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

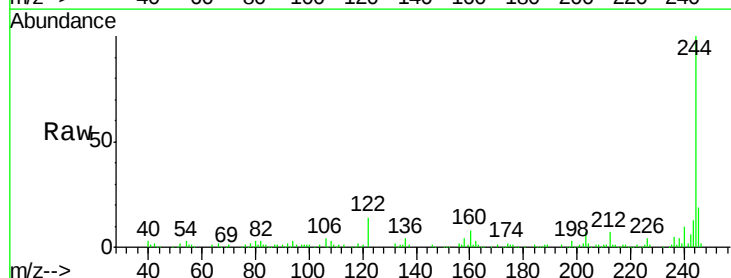
Tgt Ion: 244 Resp: 125202

Ion Ratio Lower Upper

244 100

212 7.2 5.6 8.4

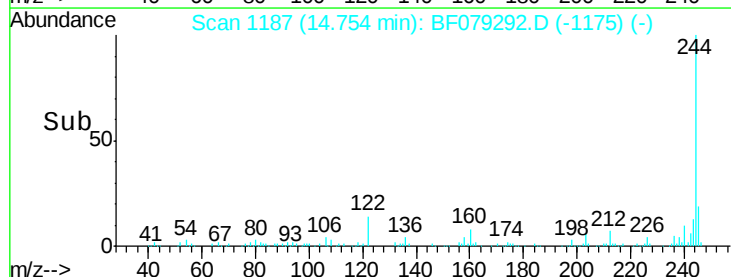
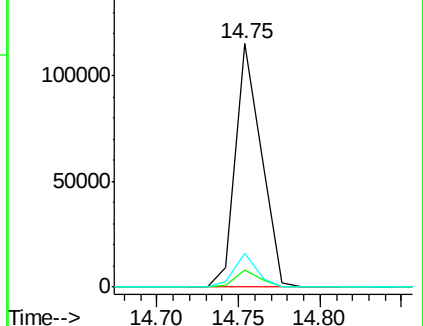
122 13.6 10.5 15.7

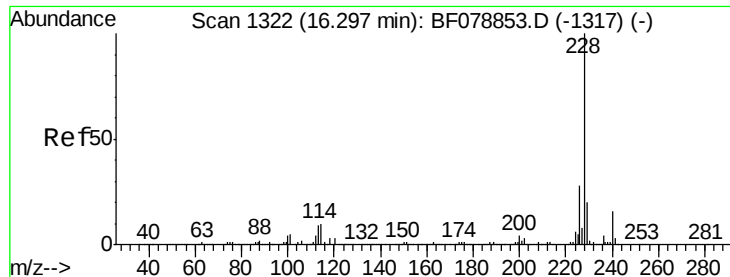


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 21.40 ng

RT: 16.03 min Scan# 1299

Delta R.T. 0.00 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

Instrument :

BNA_F

ClientSampled :

SB-38SDL

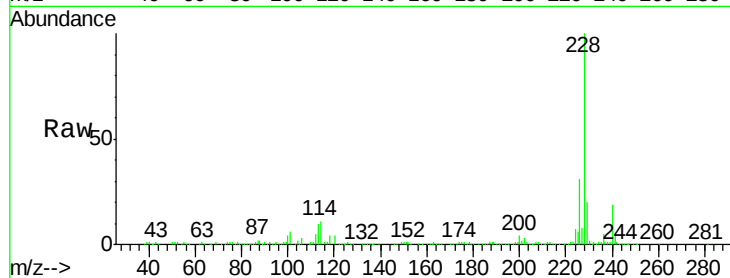
Tgt Ion:228 Resp: 233465

Ion Ratio Lower Upper

228 100

226 30.7 22.3 33.5

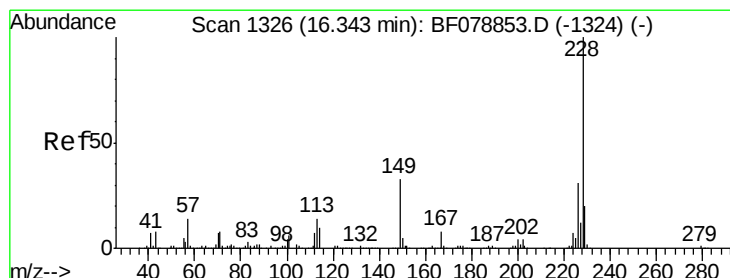
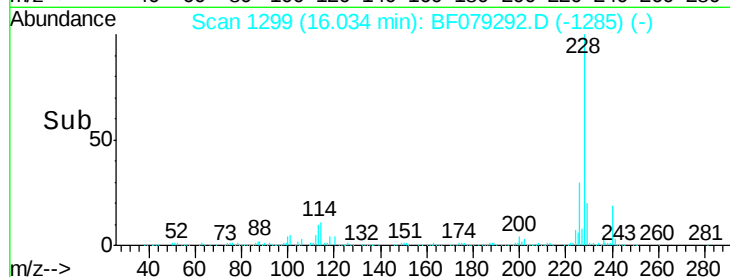
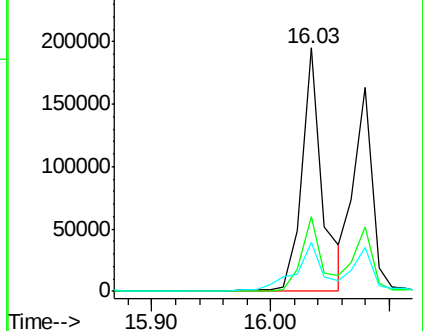
229 20.3 16.1 24.1



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: 16.79 ng

RT: 16.08 min Scan# 1303

Delta R.T. 0.00 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

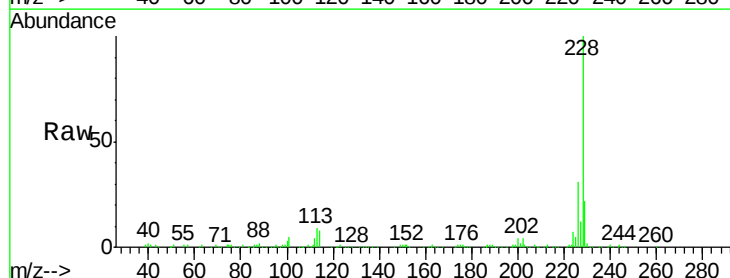
Tgt Ion:228 Resp: 176141

Ion Ratio Lower Upper

228 100

226 31.3 24.8 37.2

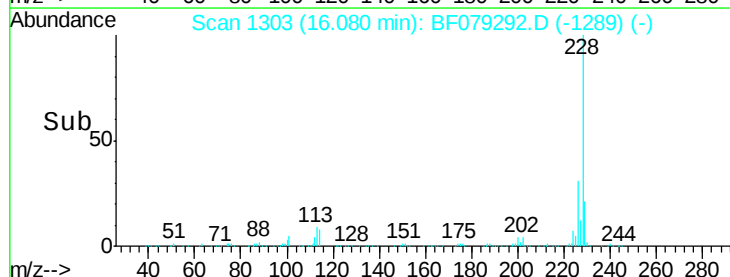
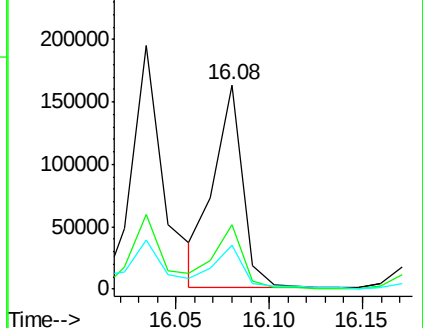
229 21.7 16.1 24.1

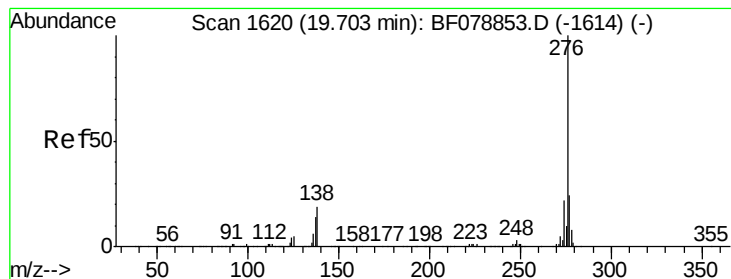


Abundance Ion 228.00 (227.70 to 228.70): E

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: 11.54 ng

RT: 19.12 min Scan# 1569

Delta R.T. -0.05 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

Instrument :

BNA_F

ClientSampleId :

SB-38SDL

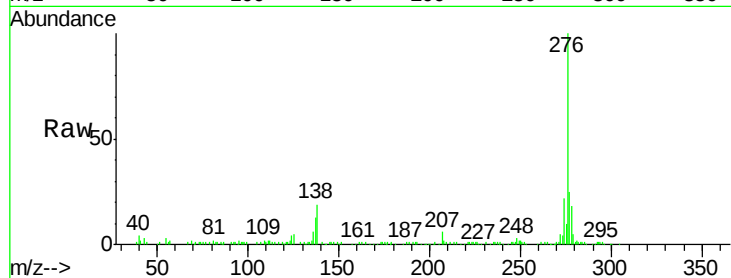
Tgt Ion:276 Resp: 154236

Ion Ratio Lower Upper

276 100

138 20.6 21.1 31.7#

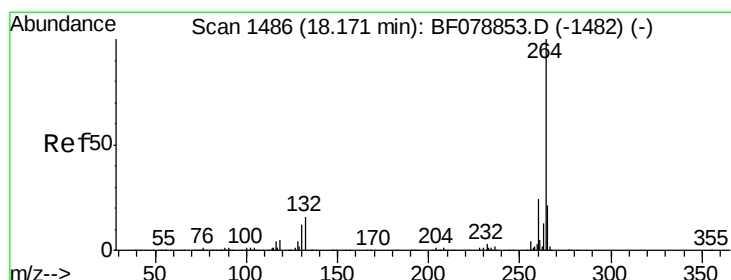
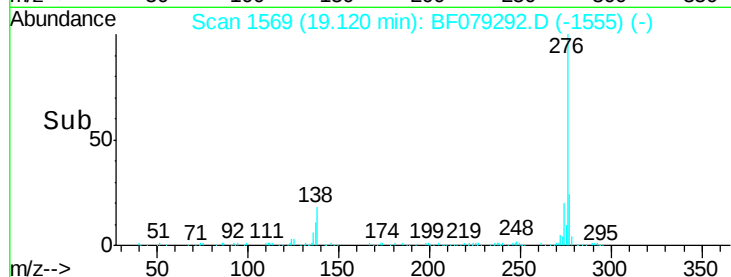
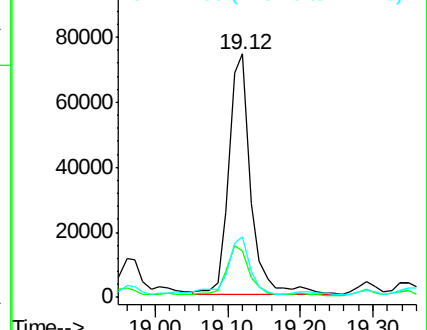
277 24.8 19.9 29.9



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: 17.73 min Scan# 1447

Delta R.T. -0.03 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

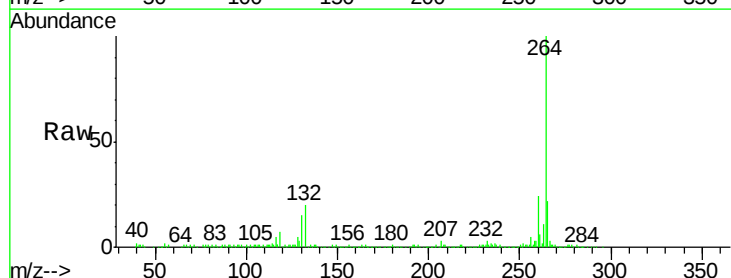
Tgt Ion:264 Resp: 209292

Ion Ratio Lower Upper

264 100

260 24.1 19.2 28.8

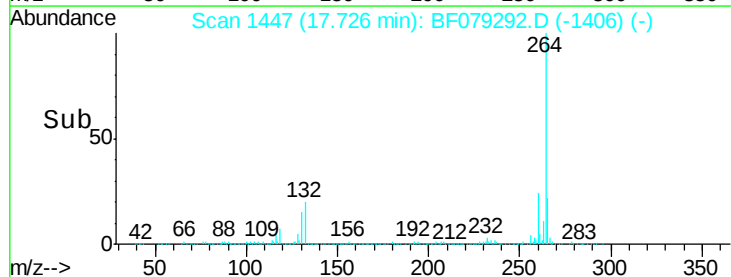
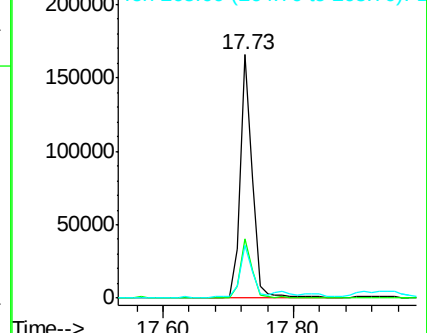
265 21.9 17.2 25.8

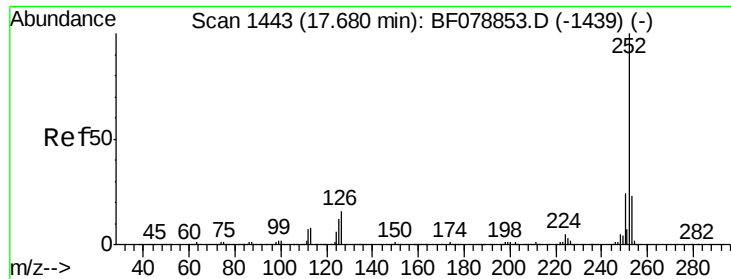


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 32.54 ng

RT: 17.30 min Scan# 1410

Delta R.T. -0.02 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

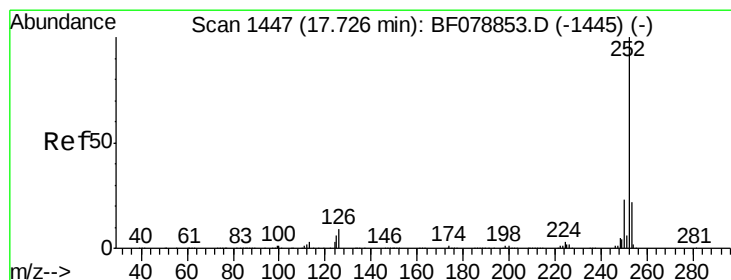
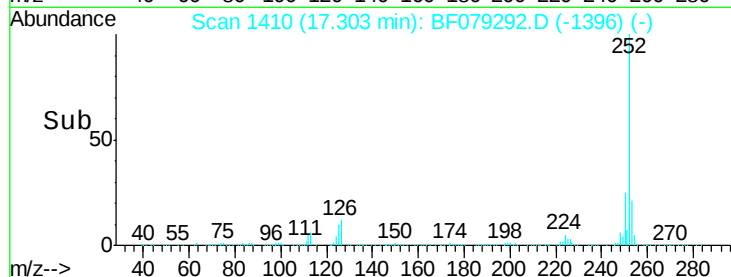
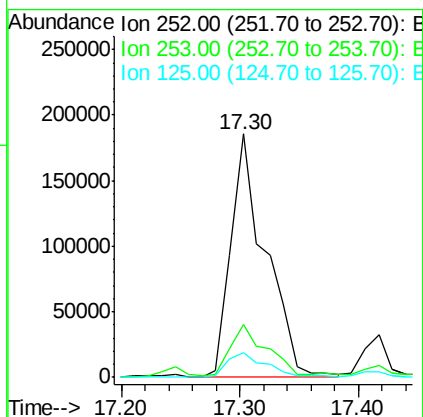
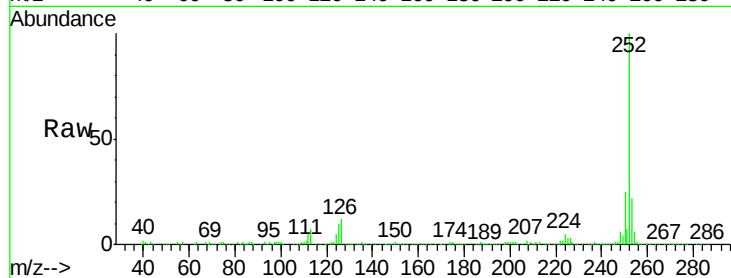
Instrument :

BNA_F

ClientSampleId :

SB-38SDL

Tgt Ion:	252	Resp:	372773
Ion Ratio	Lower	Upper	
252	100		
253	22.0	18.1	27.1
125	10.3	9.4	14.2



#88

Benzo(k)fluoranthene

Concen: 33.61 ng

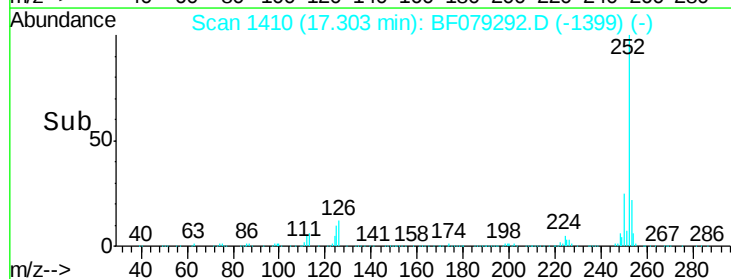
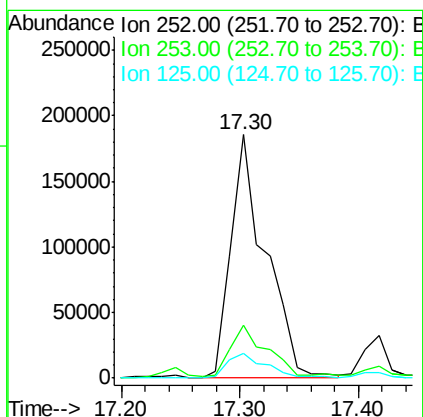
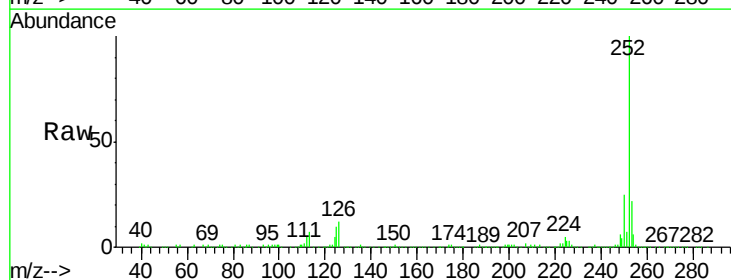
RT: 17.30 min Scan# 1410

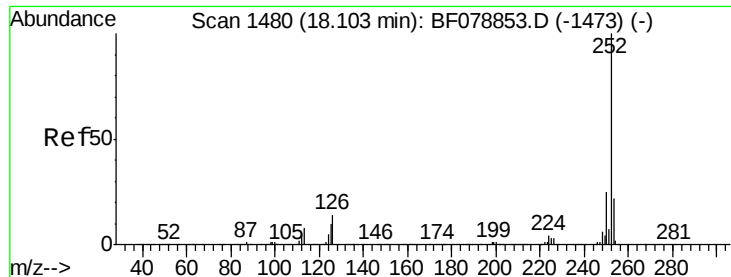
Delta R.T. -0.06 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

Tgt Ion:	252	Resp:	372773
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.4	26.0
125	10.3	6.1	9.1#





#89

Benzo(a)pyrene

Concen: 19.84 ng

RT: 17.67 min Scan# 1442

Delta R.T. -0.03 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

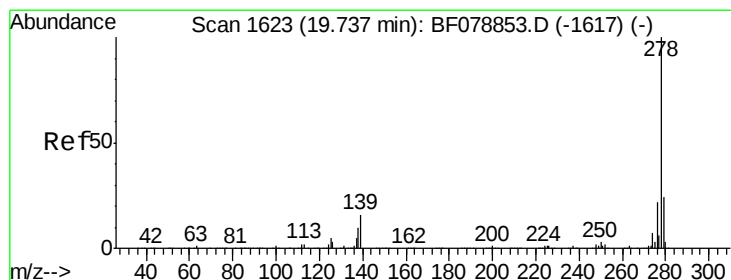
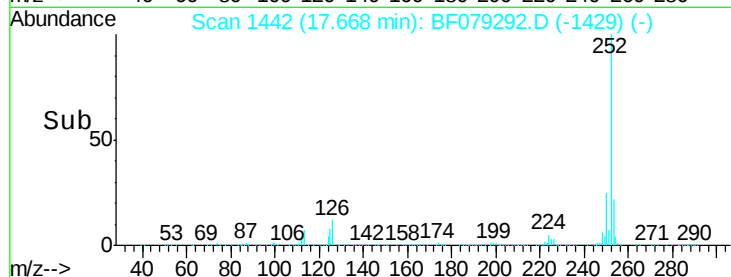
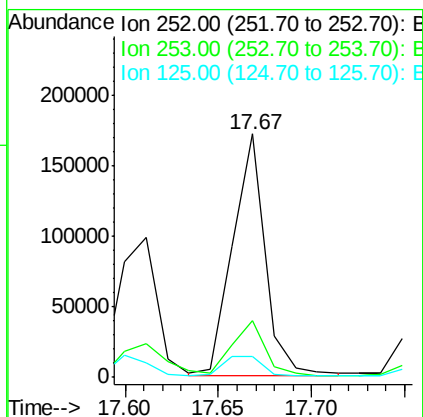
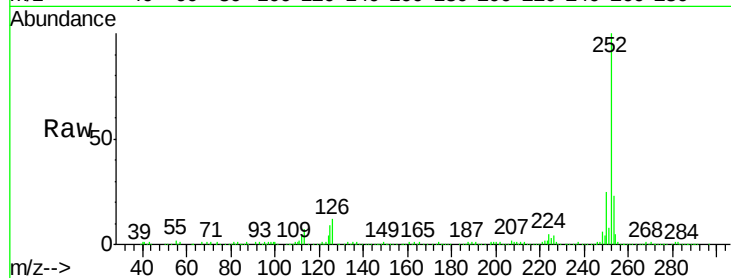
Instrument :

BNA_F

ClientSampleId :

SB-38SDL

Tgt Ion:	252	Resp:	209317
Ion Ratio	Lower	Upper	
252	100		
253	23.1	18.0	27.0
125	8.7	8.2	12.2



#90

Dibenzo(a,h)anthracene

Concen: 2.84 ng

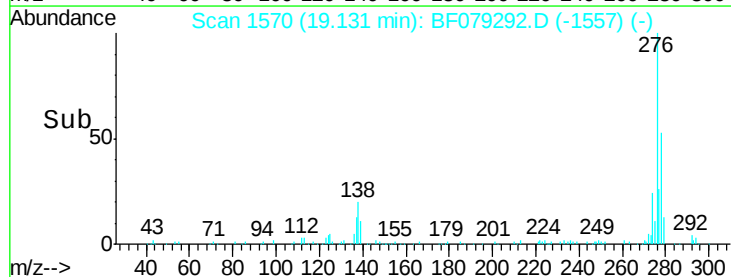
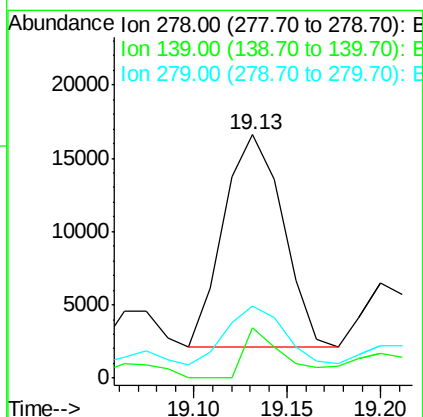
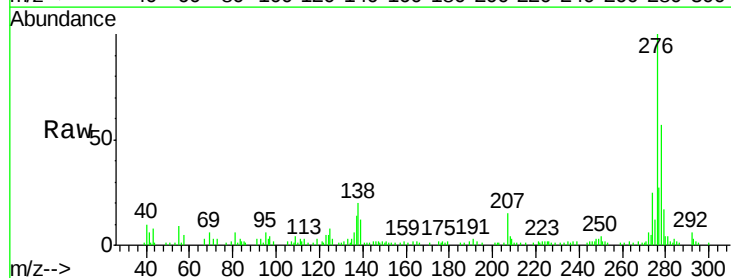
RT: 19.13 min Scan# 1570

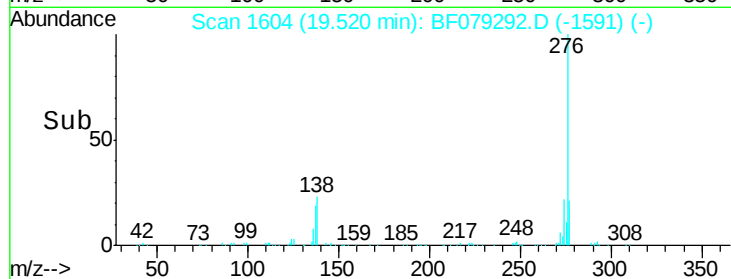
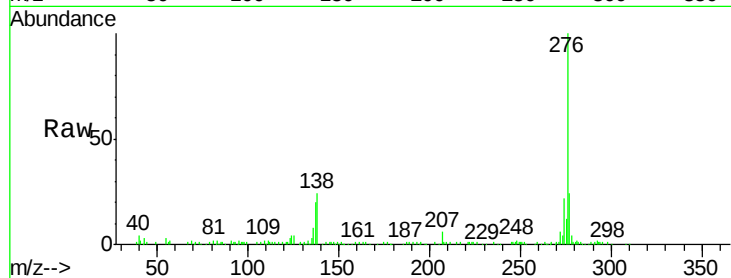
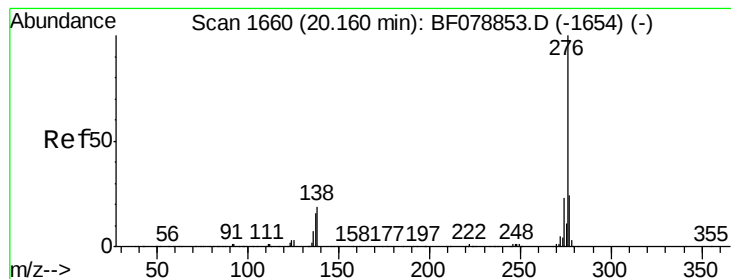
Delta R.T. -0.06 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

Tgt Ion:	278	Resp:	31827
Ion Ratio	Lower	Upper	
278	100		
139	20.5	13.1	19.7#
279	29.6	19.1	28.7#





#91

Benzo(g,h,i)perylene

Concen: 13.60 ng

RT: 19.52 min Scan# 1604

Delta R.T. -0.06 min

Lab File: BF079292.D

Acq: 16 May 2015 4:21

Instrument :

BNA_F

ClientSampleId :

SB-38SDL

Tgt Ion:276 Resp: 152833

Ion Ratio Lower Upper

276 100

277 23.8 18.8 28.2

138 24.2 15.2 22.8#

