Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032117\
Data File : BF093826.D
Acq On : 22 Mar 2017 9:35
Operator : SJ/MA
Sample : I2318-05DL 100X
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

Quant Time: Mar 22 14:47:07 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 21 14:38:20 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	201061	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	828846	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	371209	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	577257	20.00	ng	0.00
75) Chrysene-d12	13.97	240	383662	20.00	ng	0.00
86) Perylene-d12	15.37	264	354149	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	13187	1.15	ng	-0.01
7) Phenol-d6	6.45	99	17334	1.22	ng	-0.01
23) Nitrobenzene-d5	7.38	82	9832	0.67	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	1846	0.64	ng	-0.01
44) 2-Fluorobiphenyl	9.19	172	22046	1.00	ng	0.00
78) Terphenyl-d14	12.92	244	14553	0.77	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.14	128	1526878	39.69	ng	99
37) 2-Methylnaphthalene	8.82	142	431704	17.19	ng	98
45) 1,1'-Biphenyl	9.28	154	93894	3.11	ng	96
48) Acenaphthylene	9.72	152	296955	7.89	ng	98
51) Acenaphthene	9.90	154	91244	4.06	ng	96
54) Dibenzofuran	10.06	168	108273	3.58	ng	# 91
57) Fluorene	10.40	166	325741	14.06	ng	100
70) Phenanthrene	11.36	178	1148010	37.34	ng	99
71) Anthracene	11.42	178	326215	10.31	ng	97
74) Fluoranthene	12.55	202	655222	20.74	ng	95
77) Pyrene	12.78	202	782053	24.49	ng	99
80) Benzo(a)anthracene	13.96	228	232568m	9.68	ng	
82) Chrysene	13.99	228	229031m	9.54	ng	
85) Indeno(1,2,3-cd)pyrene	16.72	276	73287	3.73	ng	95
87) Benzo(b)fluoranthene	14.97	252	188891m	7.91	ng	
88) Benzo(k)fluoranthene	14.99	252	84718m	4.81	ng	
89) Benzo(a)pyrene	15.32	252	186024	9.61	ng	97
91) Benzo(g,h,i)perylene	17.12	276	81498	5.11	ng	99

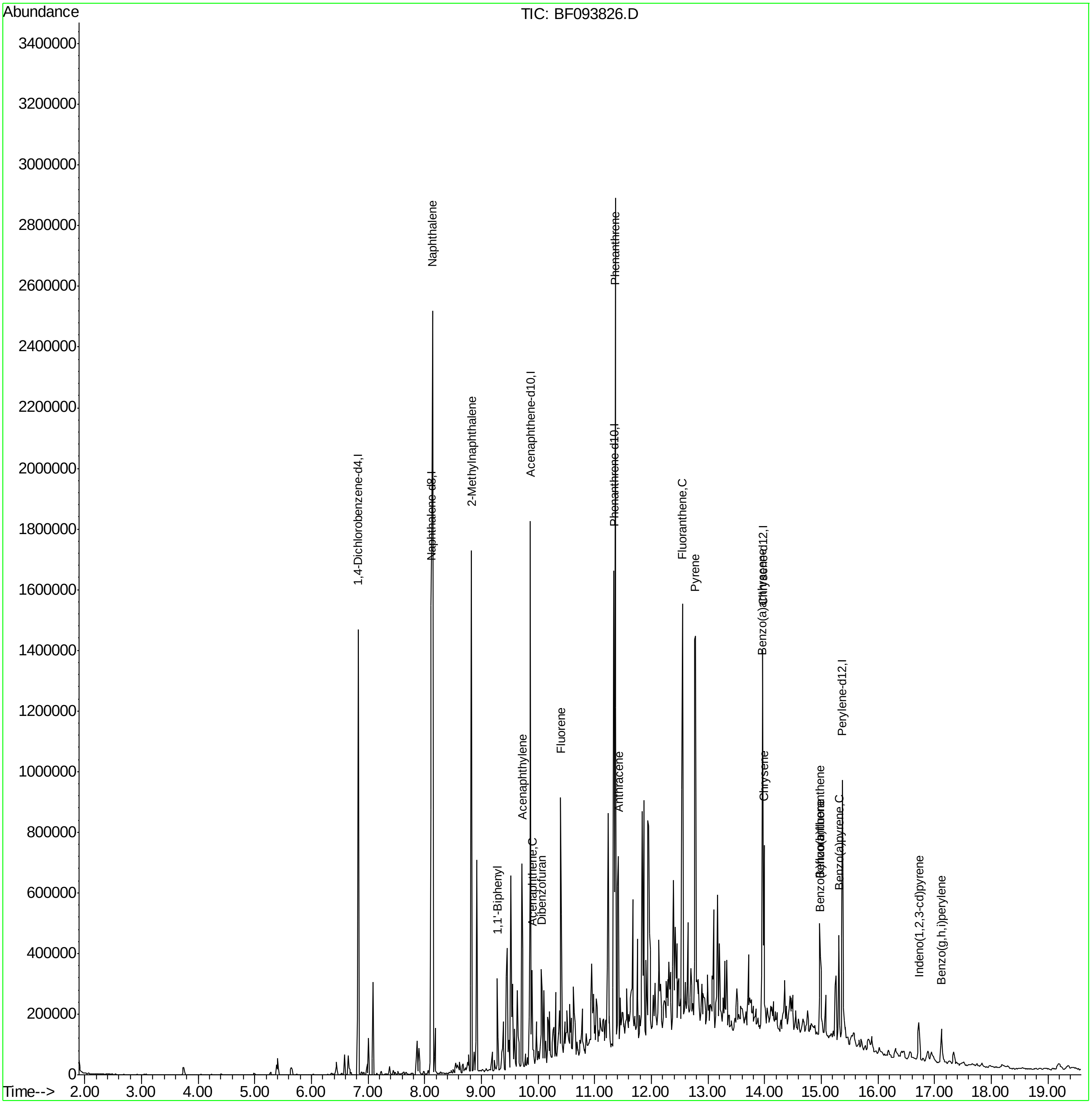
(#) = qualifier out of range (m) = manual integration (+) = signals summed

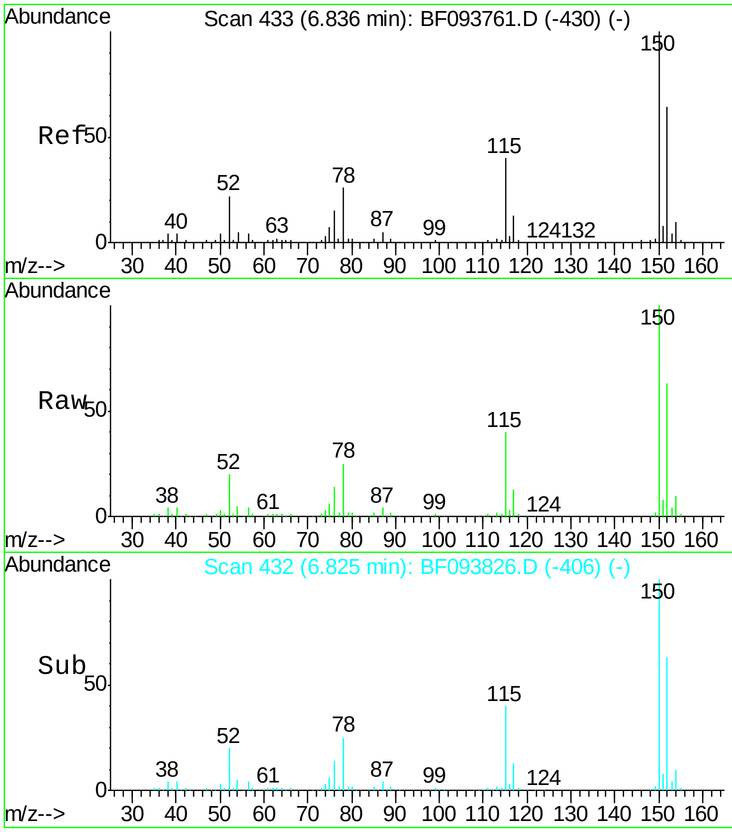
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032117\
Data File : BF093826.D
Acq On : 22 Mar 2017 9:35
Operator : SJ/MA
Sample : I2318-05DL 100X
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

Quant Time: Mar 22 14:47:07 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 21 14:38:20 2017
Response via : Initial Calibration



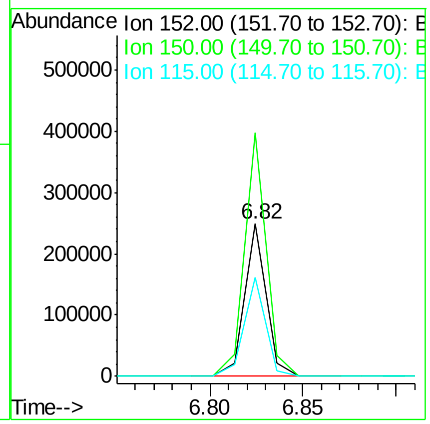


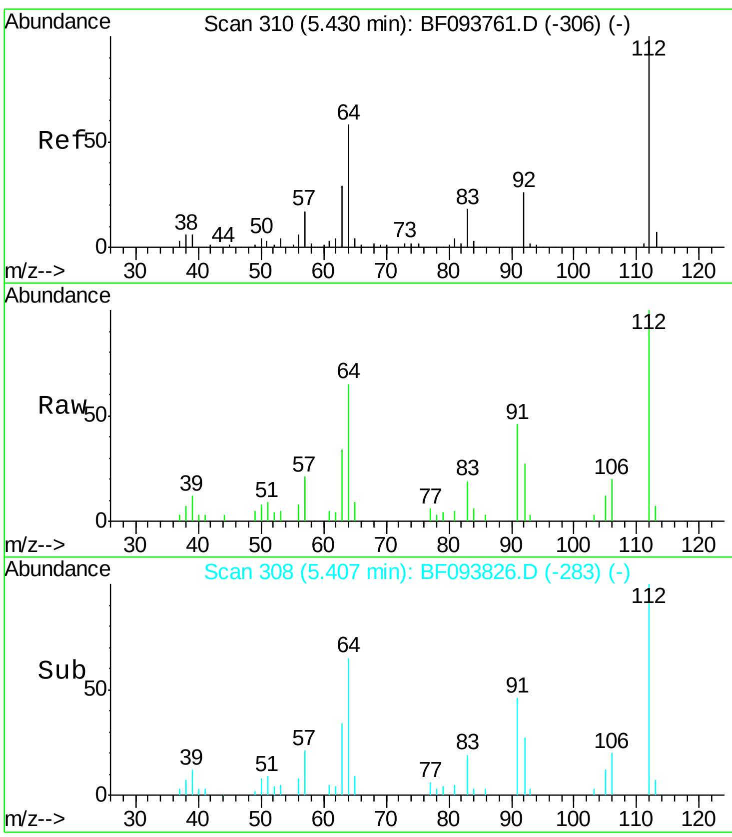
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.82 min   Scan# 432
Delta R.T.   -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017   9:35

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

Tgt Ion:152 Resp: 201061

Ion	Ratio	Lower	Upper
152	100		
150	159.6	126.2	189.2
115	64.6	52.2	78.2

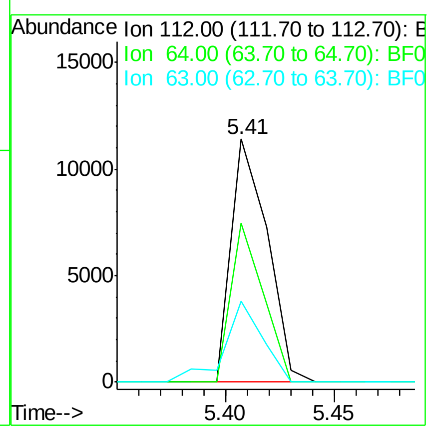


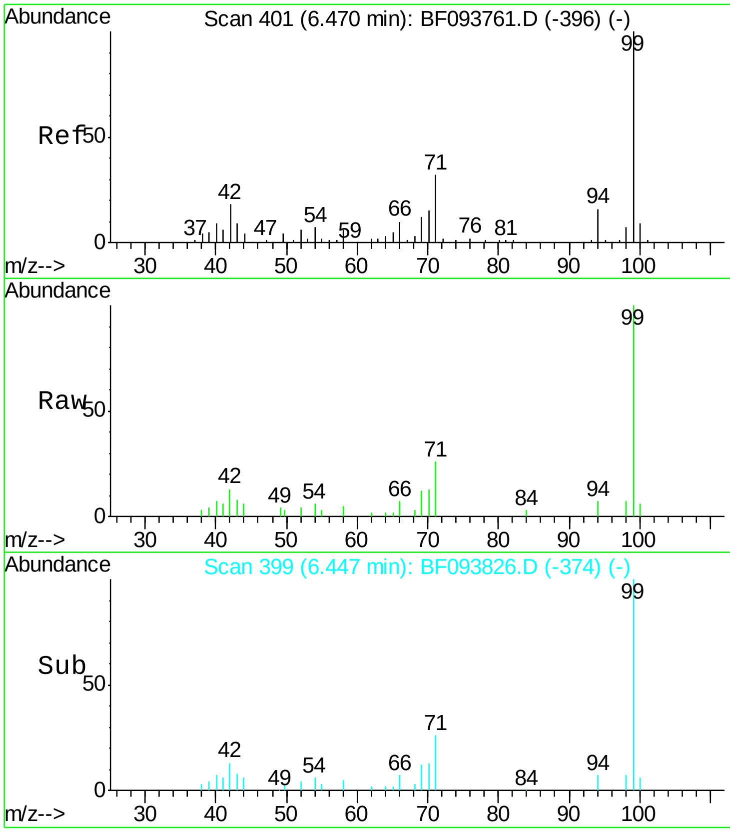


#5
2-Fluorophenol
Concen: 1.15 ng
RT: 5.41 min   Scan# 308
Delta R.T.   -0.01 min
Lab File: BF093826.D
Acq: 22 Mar 2017   9:35

Tgt Ion:112 Resp: 13187

Ion	Ratio	Lower	Upper
112	100		
64	65.2	46.0	69.0
63	33.5	23.4	35.0



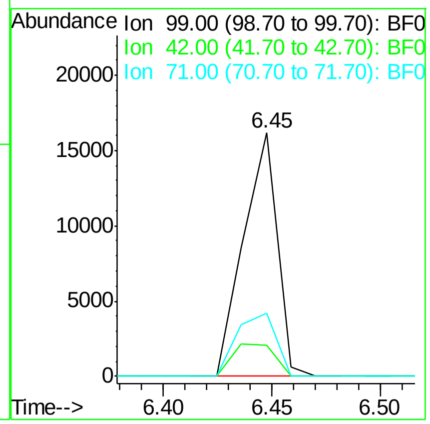


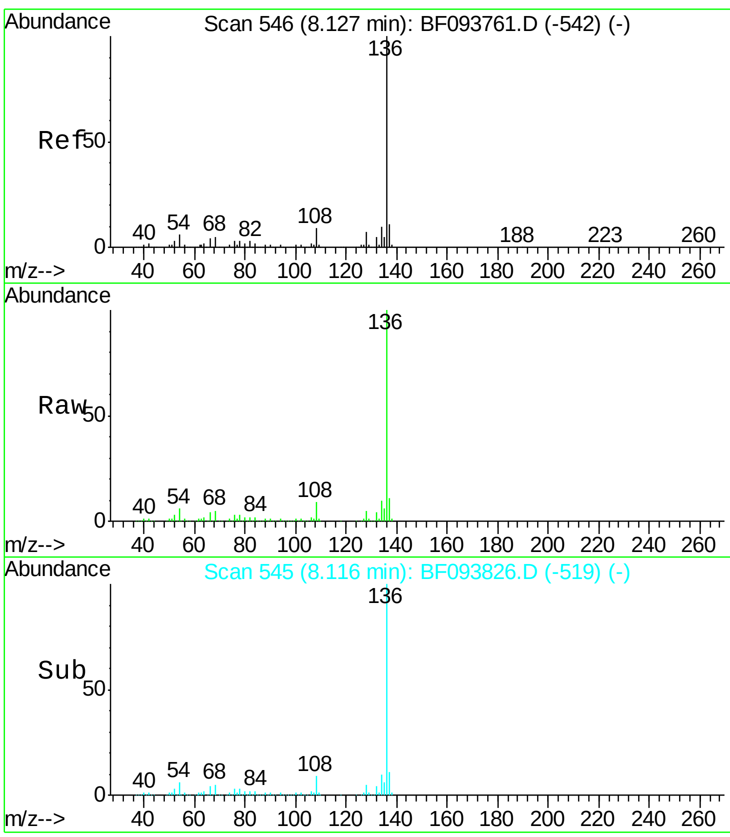
#7
Phenol-d6
Concen: 1.22 ng
RT: 6.45 min Scan# 399
Delta R.T. -0.01 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

Tgt Ion: 99 Resp: 17334

Ion	Ratio	Lower	Upper
99	100		
42	12.8	13.5	20.3#
71	25.9	24.5	36.7

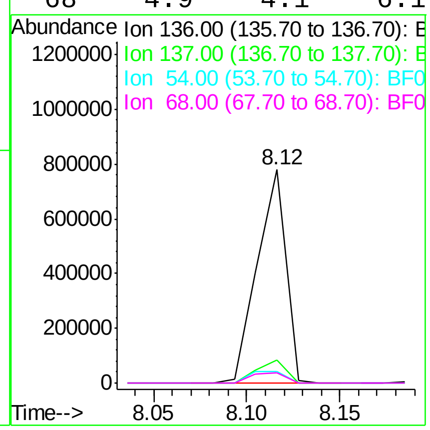


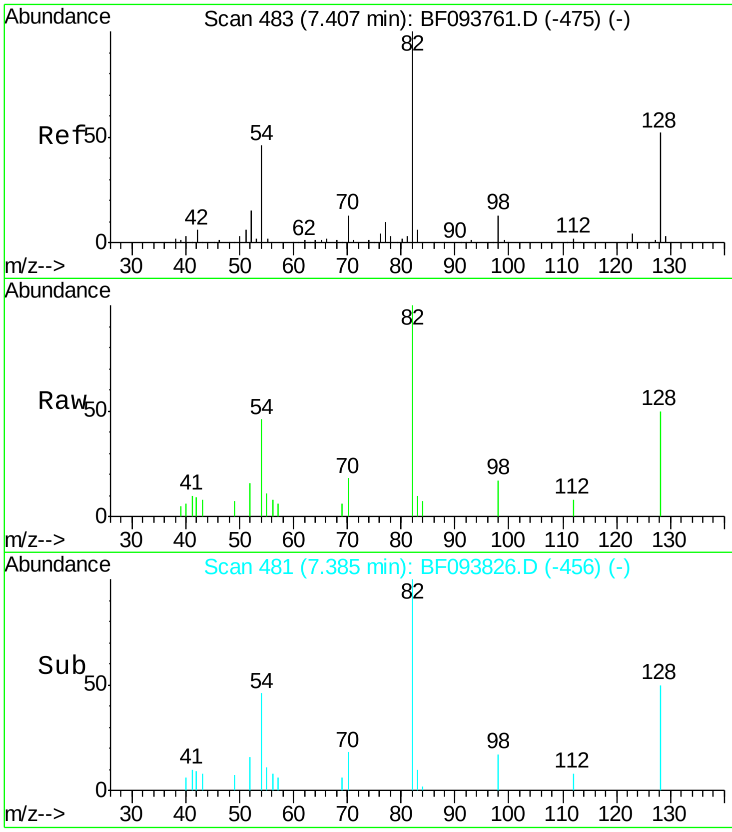


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.12 min Scan# 545
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Tgt Ion:136 Resp: 828846

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.5	12.7
54	5.6	4.9	7.3
68	4.9	4.1	6.1



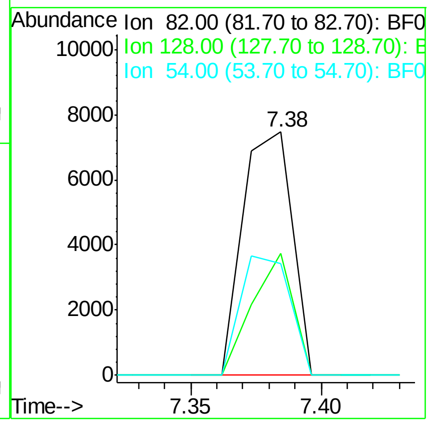


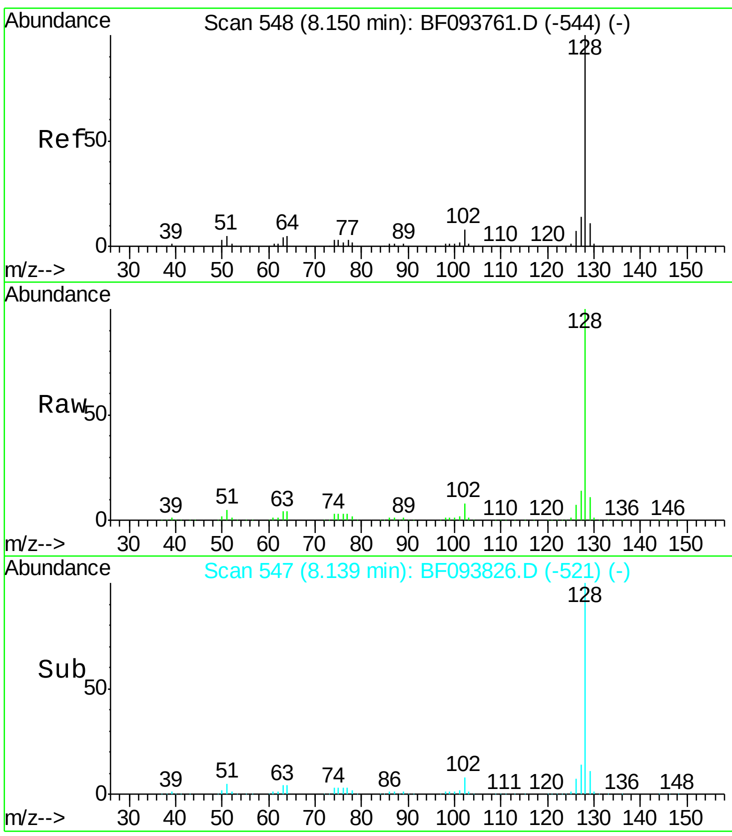
#23
Nitrobenzene-d5
Concen: 0.67 ng
RT: 7.38 min Scan# 481
Delta R.T. -0.01 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

Tgt Ion: 82 Resp: 9832

Ion	Ratio	Lower	Upper
82	100		
128	50.3	34.0	51.0
54	46.0	42.2	63.2

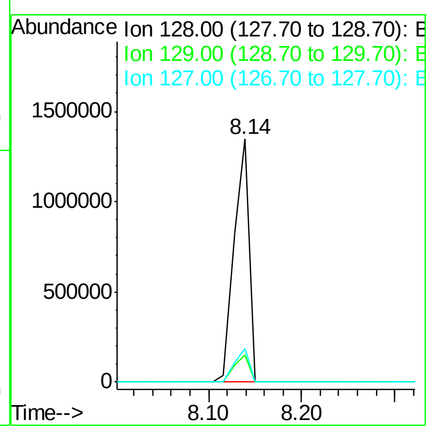


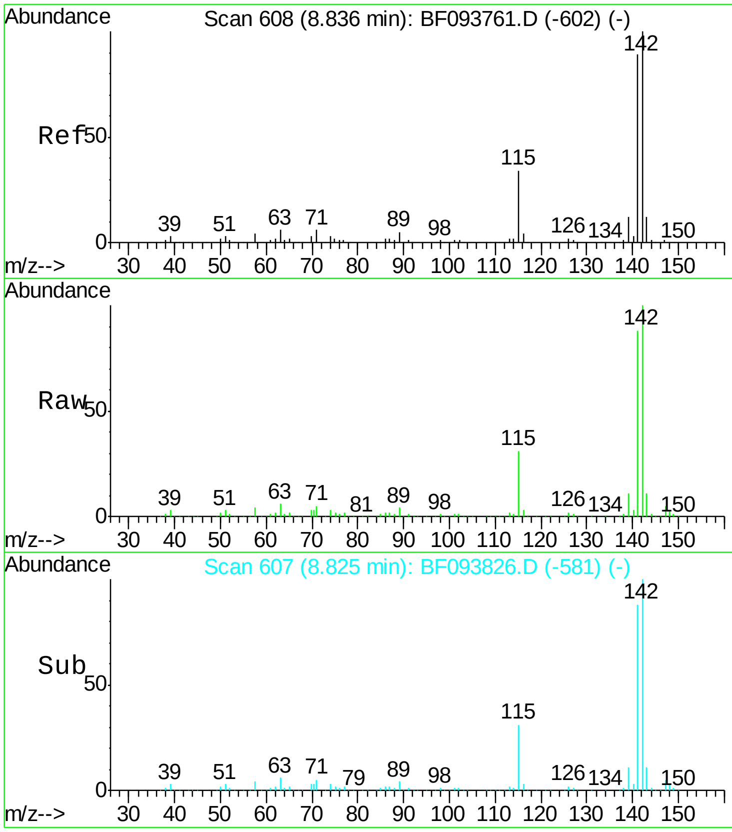


#31
Naphthalene
Concen: 39.69 ng
RT: 8.14 min Scan# 547
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Tgt Ion:128 Resp: 1526878

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.7	10.8	16.2

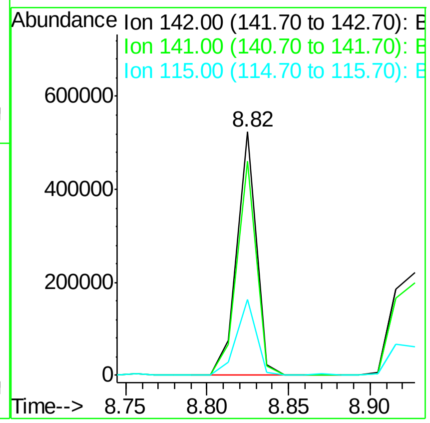


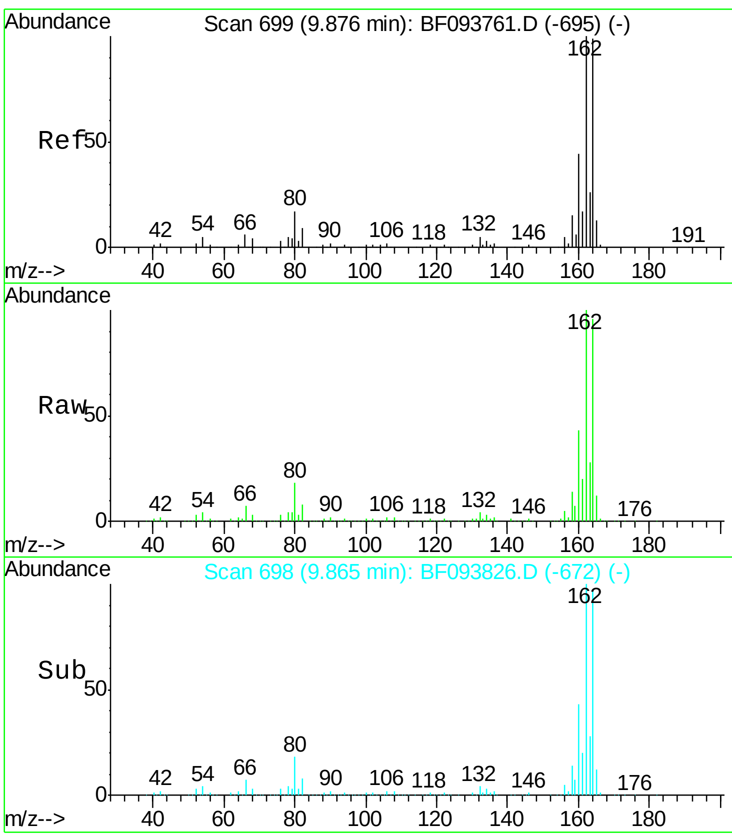


#37
2-Methylnaphthalene
Concen: 17.19 ng
RT: 8.82 min Scan# 607
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

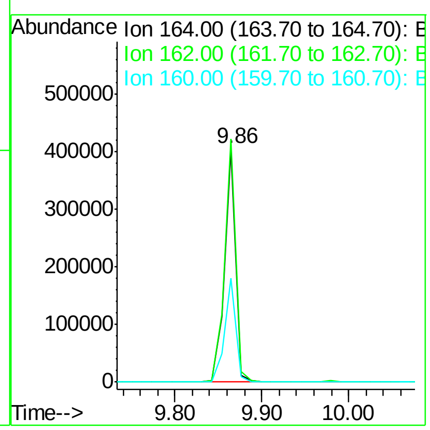
Tgt	Ion:142	Resp:	431704
Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.3	106.9
115	31.4	27.1	40.7

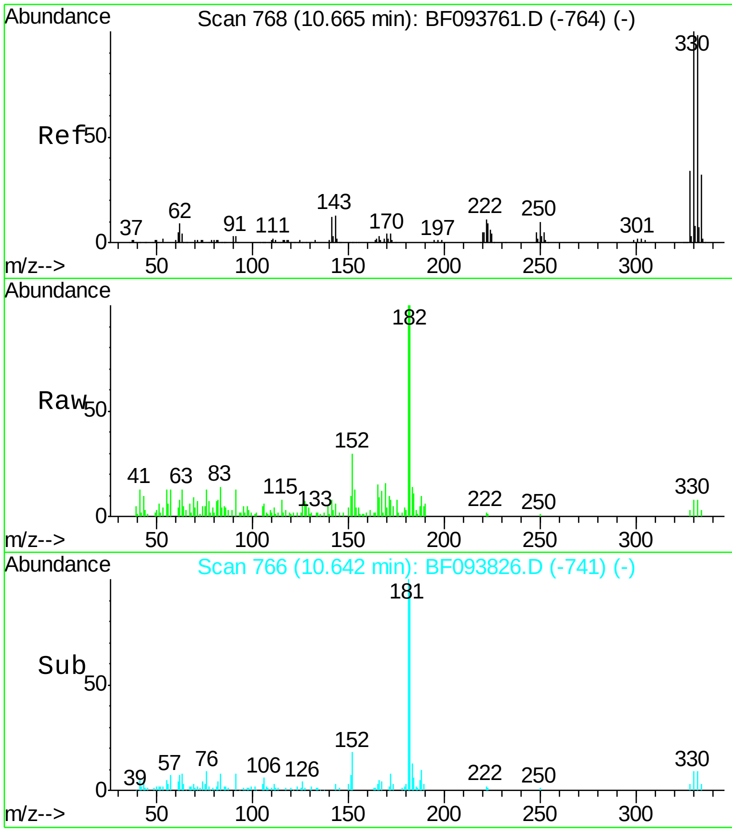




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.86 min Scan# 698
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Tgt	Ion:164	Resp:	371209
Ion	Ratio	Lower	Upper
164	100		
162	104.2	82.6	123.8
160	44.4	36.2	54.2



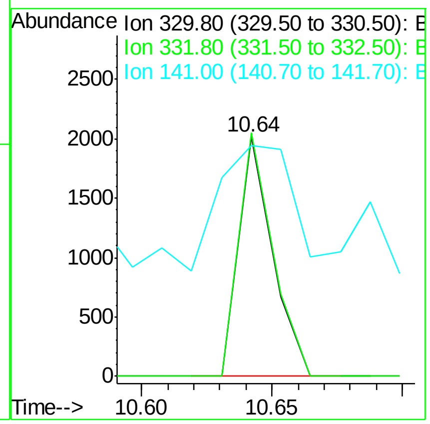


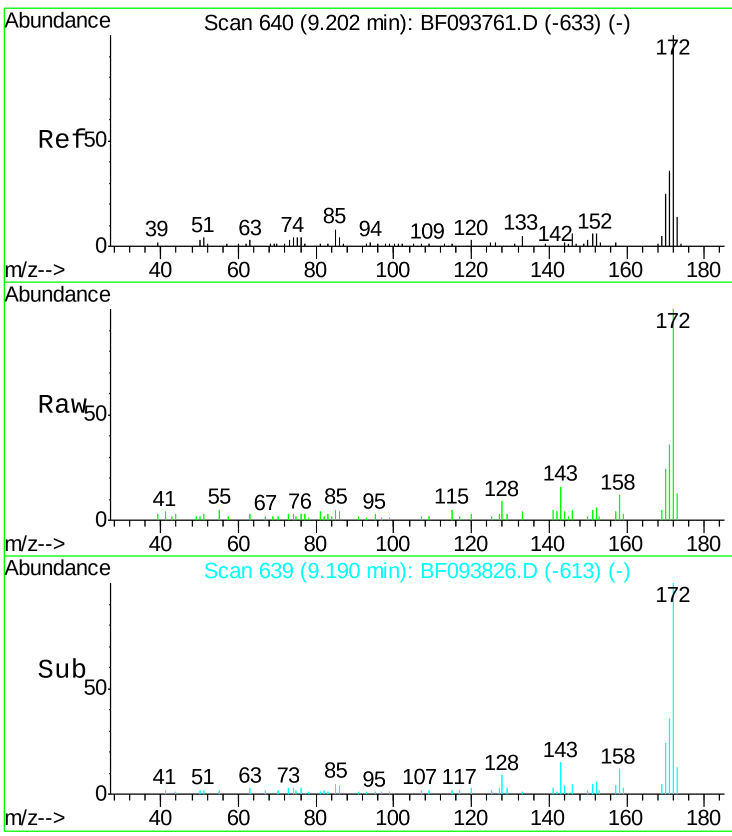
#41
2,4,6-Tribromophenol
Concen: 0.64 ng
RT: 10.64 min Scan# 766
Delta R.T. -0.01 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Instrument : BNA_F
ClientSampleId : HP-CT-02DL

Tgt Ion:330 Resp: 1846

Ion	Ratio	Lower	Upper
330	100		
332	102.1	76.6	115.0
141	116.3	31.4	47.2#

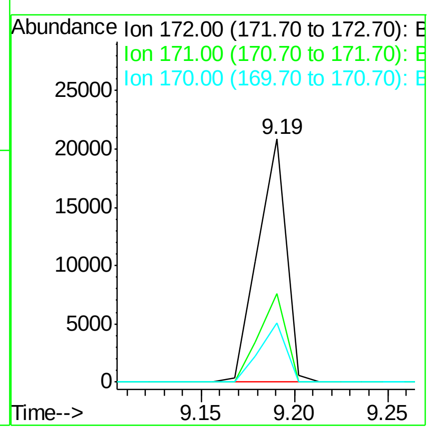


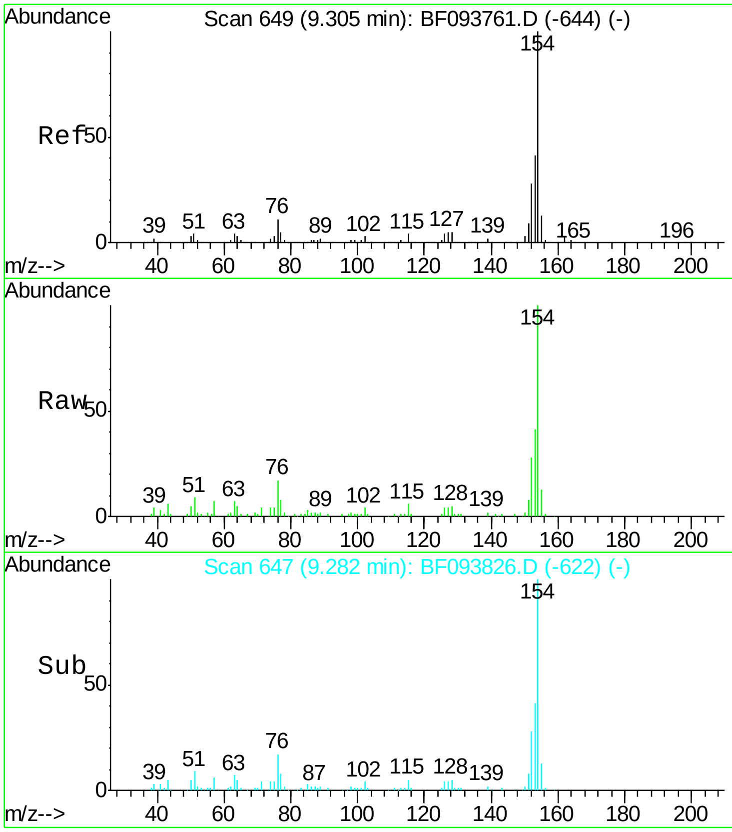


#44
2-Fluorobiphenyl
Concen: 1.00 ng
RT: 9.19 min Scan# 639
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Tgt Ion:172 Resp: 22046

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.6	44.4
170	24.4	19.8	29.8

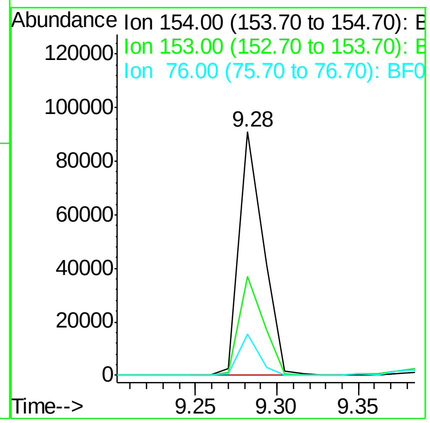


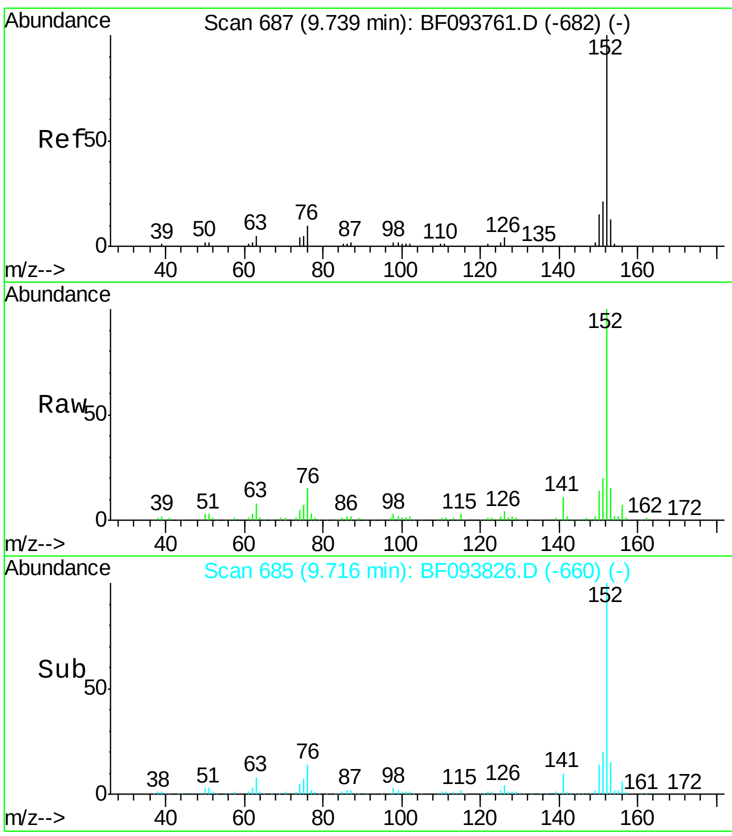



```
#45
1,1'-Biphenyl
Concen:     3.11 ng
RT: 9.28 min   Scan# 647
Delta R.T.    -0.01 min
Lab File:    BF093826.D
Acq: 22 Mar 2017    9:35

Tgt Ion:154 Resp:    93894
Ion  Ratio   Lower   Upper
154  100
153   40.6    21.2    61.2
 76   16.9     0.0    29.9
```

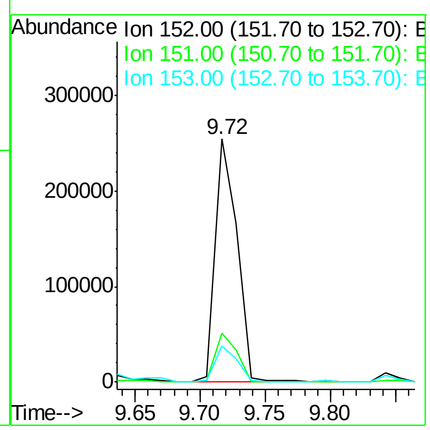
Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

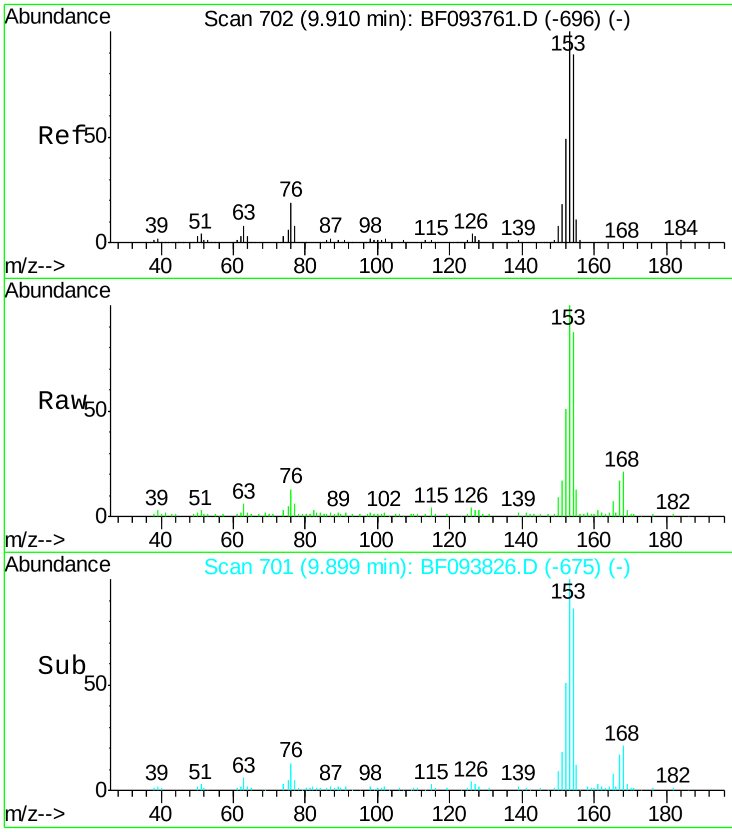





```
#48
Acenaphthylene
Concen:     7.89 ng
RT: 9.72 min   Scan# 685
Delta R.T.    -0.01 min
Lab File:    BF093826.D
Acq: 22 Mar 2017    9:35

Tgt Ion:152 Resp:   296955
Ion  Ratio   Lower   Upper
152  100
151   20.3    16.8    25.2
153   14.8    10.8    16.2
```



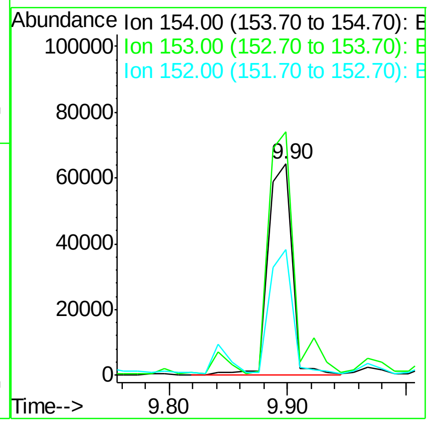


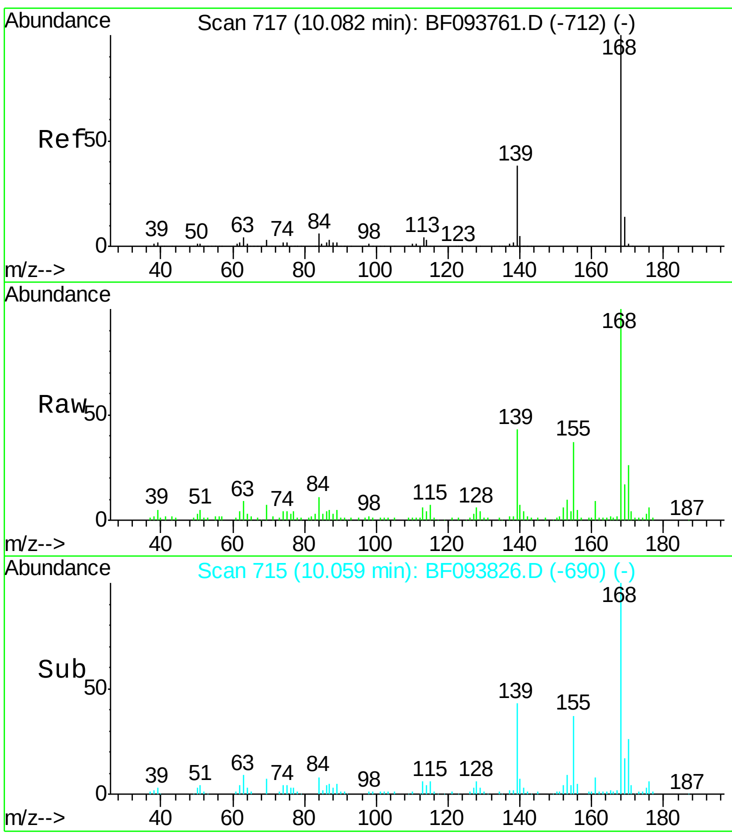
#51
Acenaphthene
Concen: 4.06 ng
RT: 9.90 min Scan# 701
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

Tgt Ion:154 Resp: 91244

Ion	Ratio	Lower	Upper
154	100		
153	115.3	90.5	135.7
152	59.3	43.6	65.4

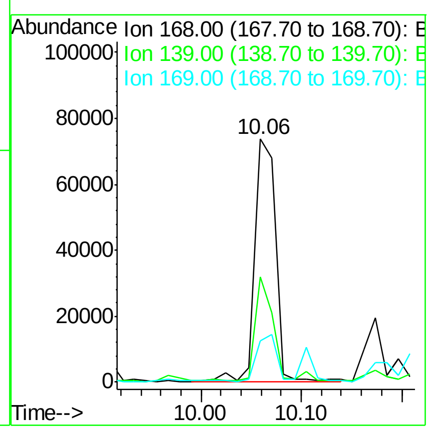


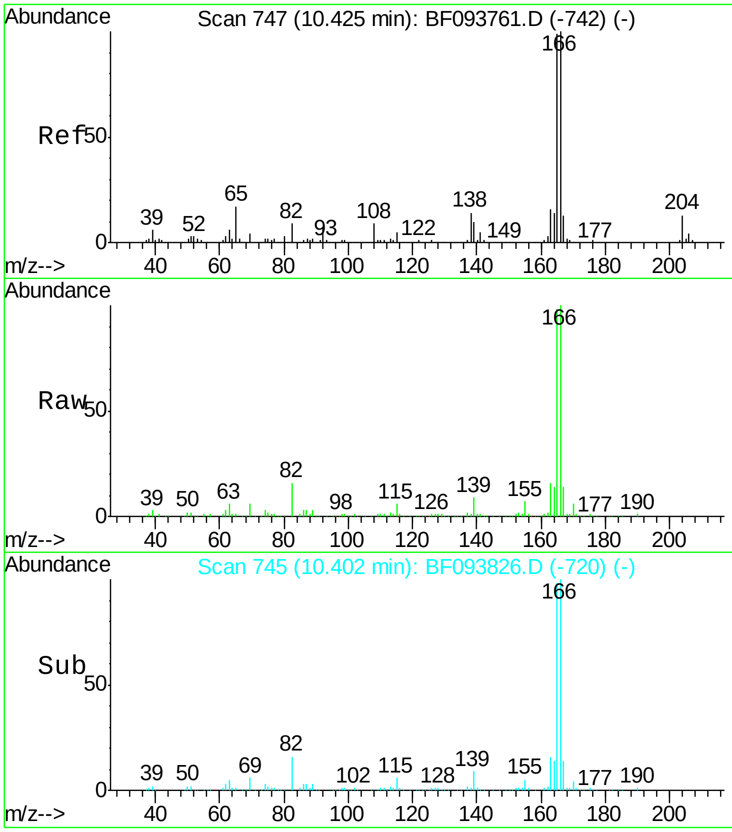


#54
Dibenzofuran
Concen: 3.58 ng
RT: 10.06 min Scan# 715
Delta R.T. -0.01 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Tgt Ion:168 Resp: 108273

Ion	Ratio	Lower	Upper
168	100		
139	43.5	30.6	45.8
169	16.8	10.8	16.2#



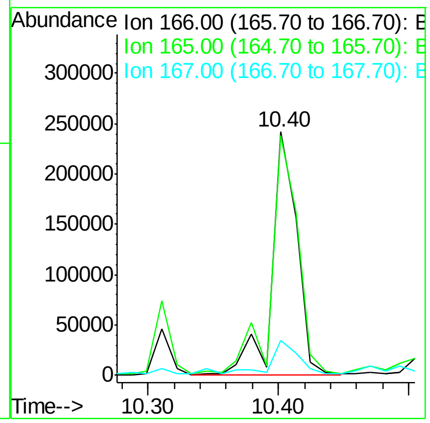


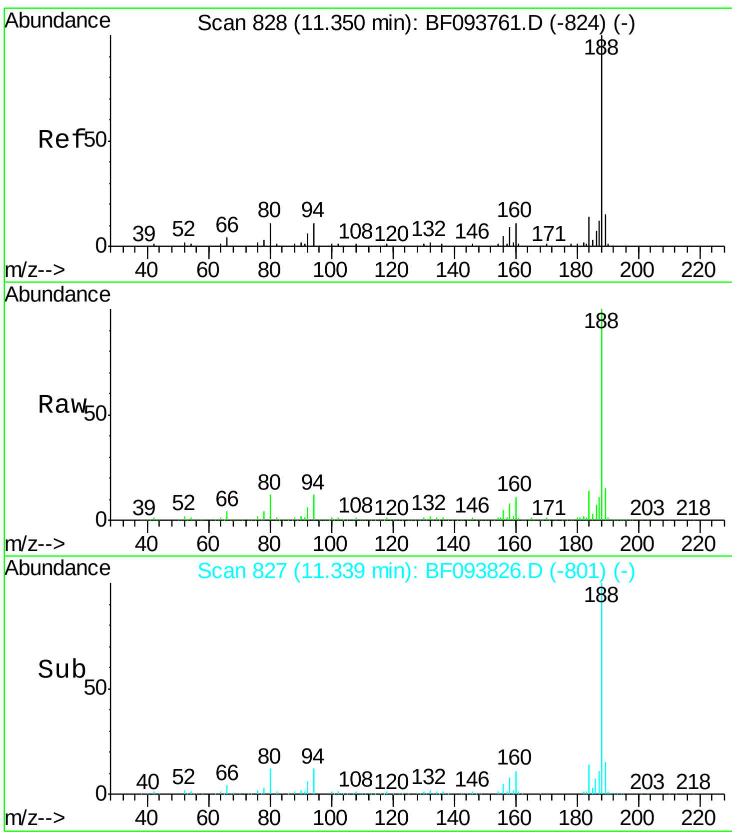
#57
Fluorene
Concen: 14.06 ng
RT: 10.40 min   Scan# 745
Delta R.T.   -0.01 min
Lab File: BF093826.D
Acq: 22 Mar 2017   9:35

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

Tgt Ion:166 Resp: 325741

Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.8	118.2
167	14.2	10.6	16.0

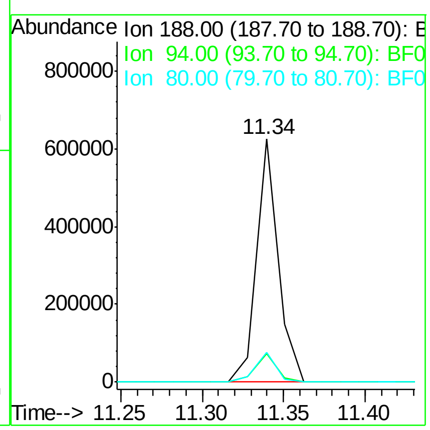


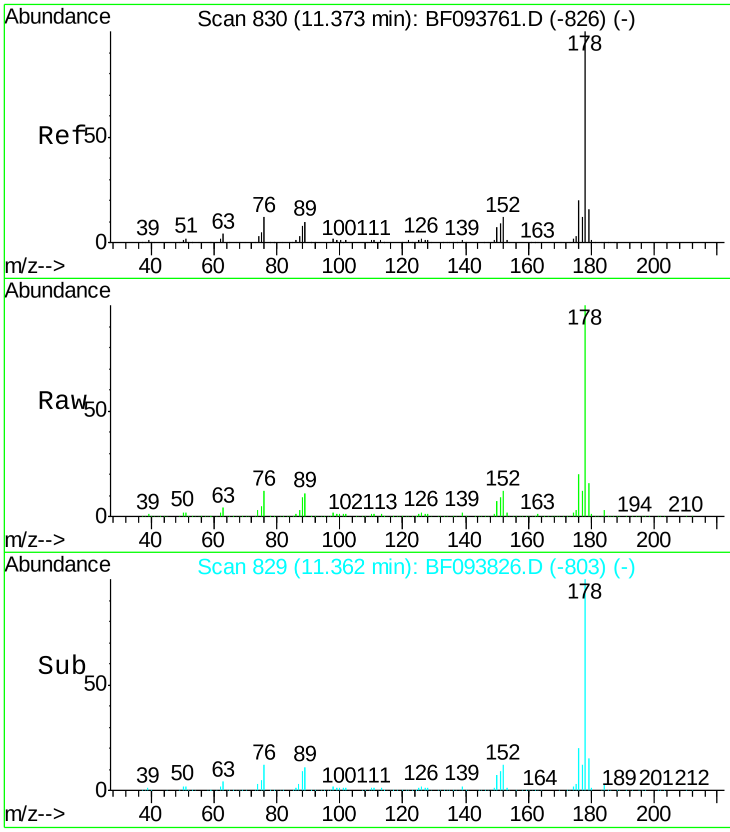


#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.34 min   Scan# 827
Delta R.T.   -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017   9:35

Tgt Ion:188 Resp: 577257

Ion	Ratio	Lower	Upper
188	100		
94	11.8	9.4	14.2
80	12.2	10.2	15.2



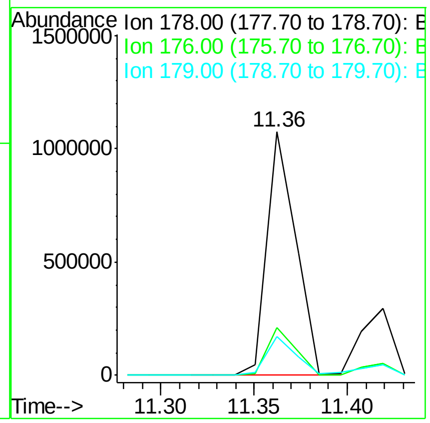


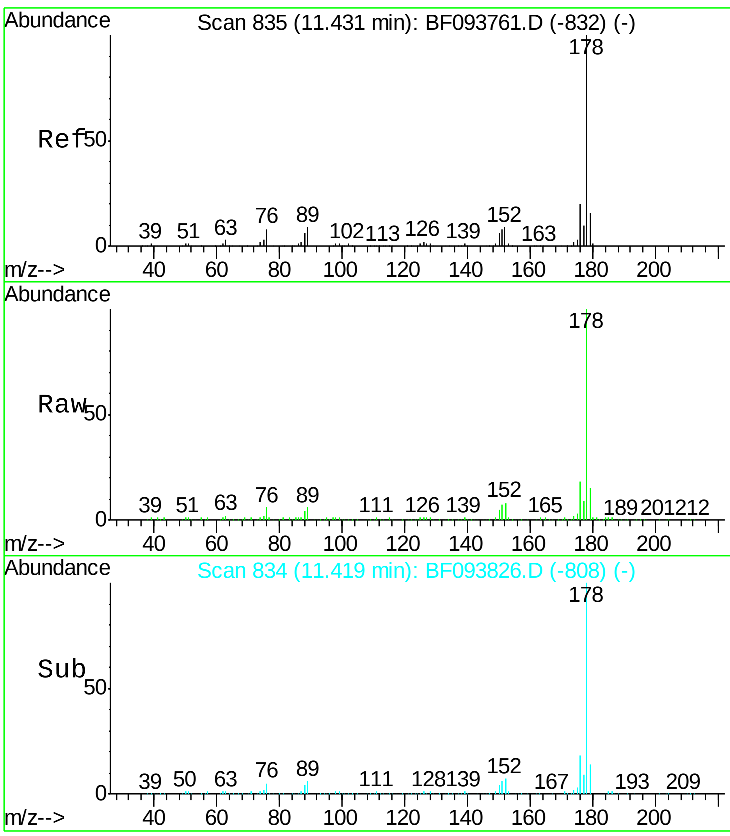
#70
Phenanthrene
Concen: 37.34 ng
RT: 11.36 min Scan# 829
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

Tgt Ion:178 Resp: 1148010

Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.2	24.4
179	16.0	12.6	19.0

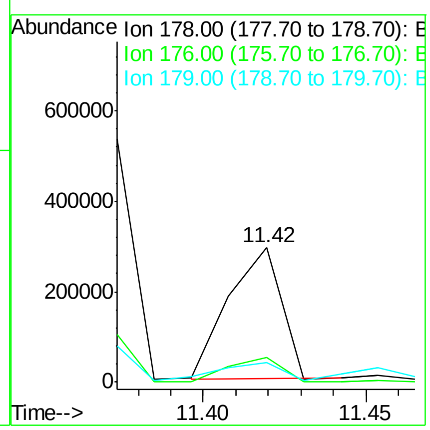


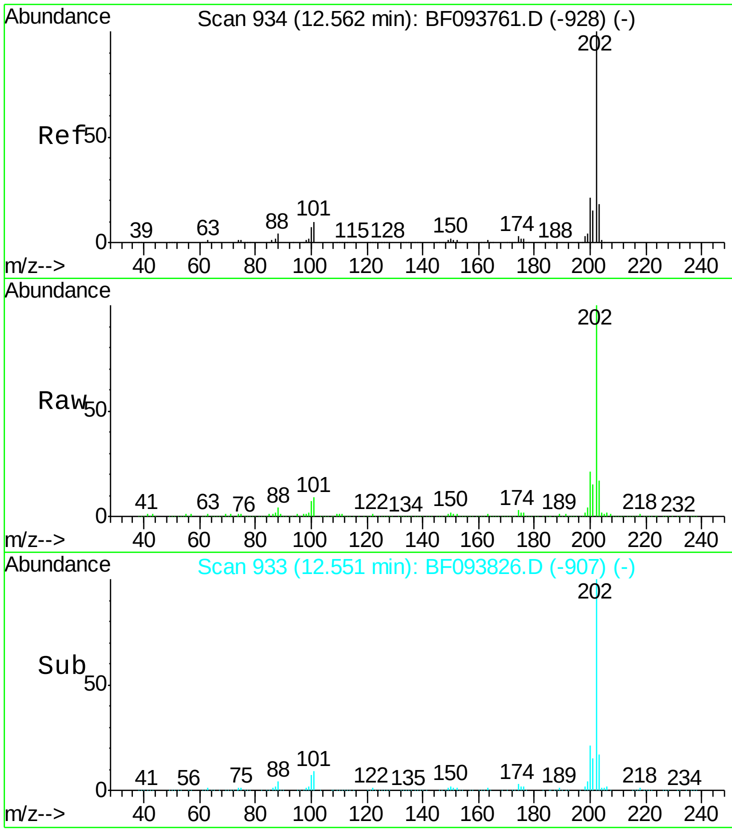


#71
Anthracene
Concen: 10.31 ng
RT: 11.42 min Scan# 834
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Tgt Ion:178 Resp: 326215

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.8	23.8
179	15.0	12.7	19.1



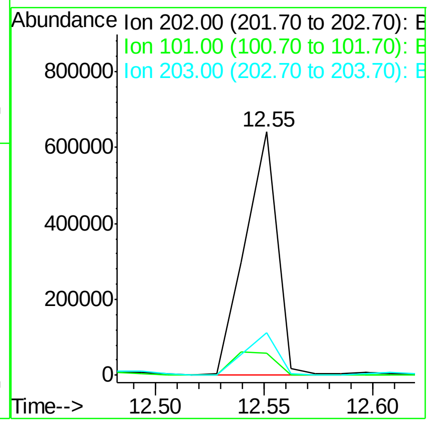


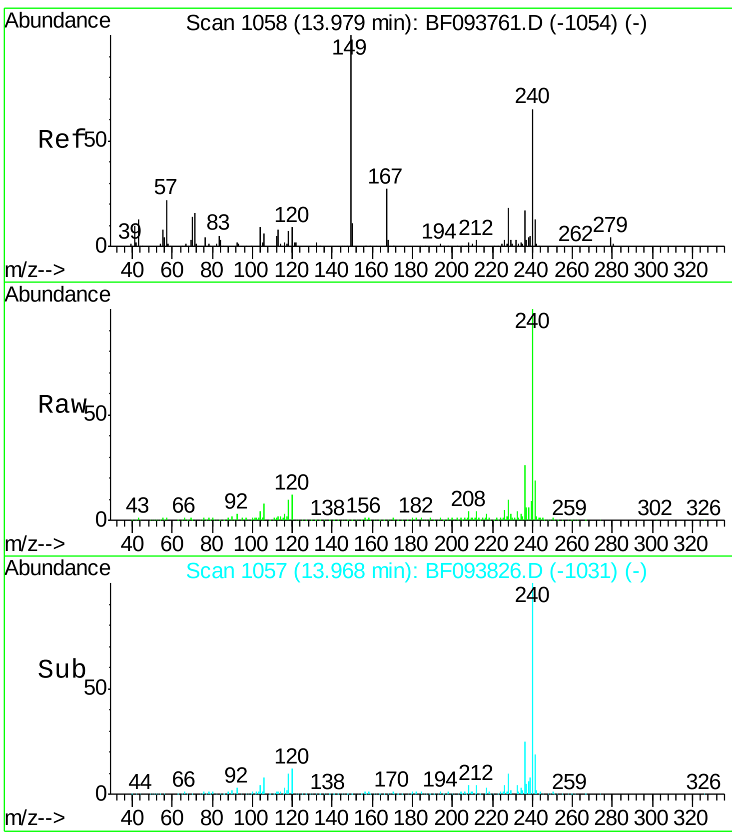
#74
Fluoranthene
Concen: 20.74 ng
RT: 12.55 min Scan# 933
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

Tgt Ion:202 Resp: 655222

Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	33.2
203	17.4	0.0	38.1

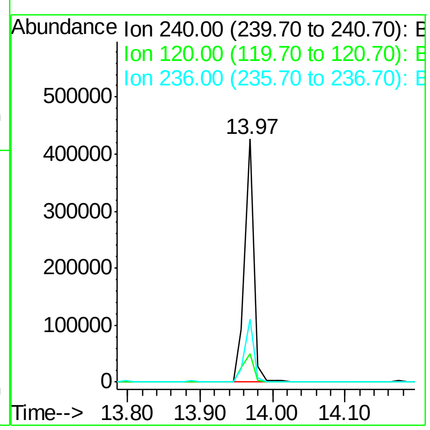


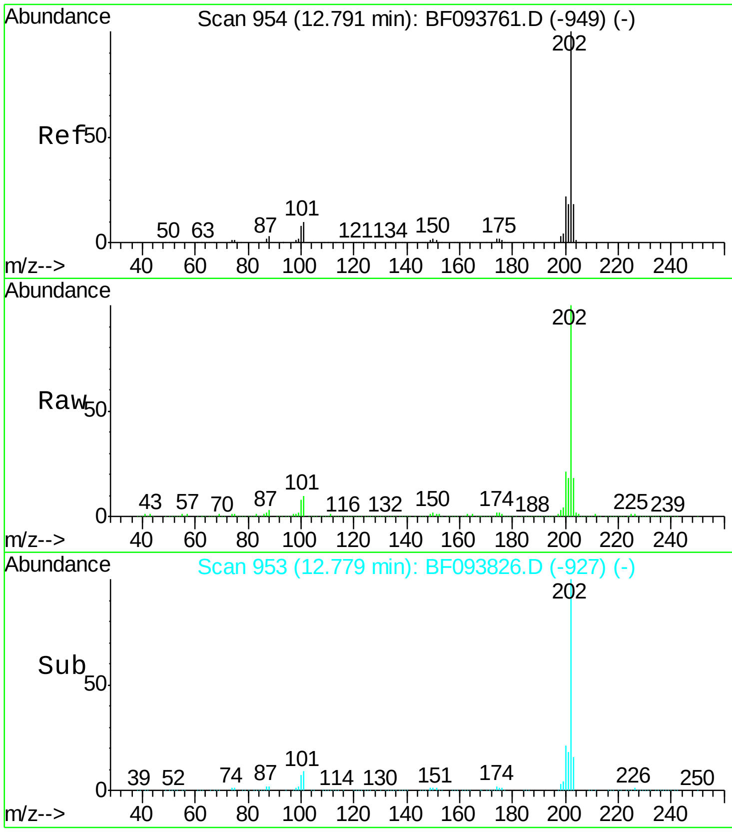


#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.97 min Scan# 1057
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Tgt Ion:240 Resp: 383662

Ion	Ratio	Lower	Upper
240	100		
120	11.9	5.8	8.8#
236	25.8	20.5	30.7

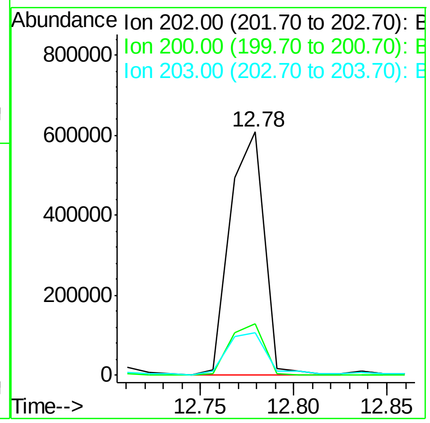


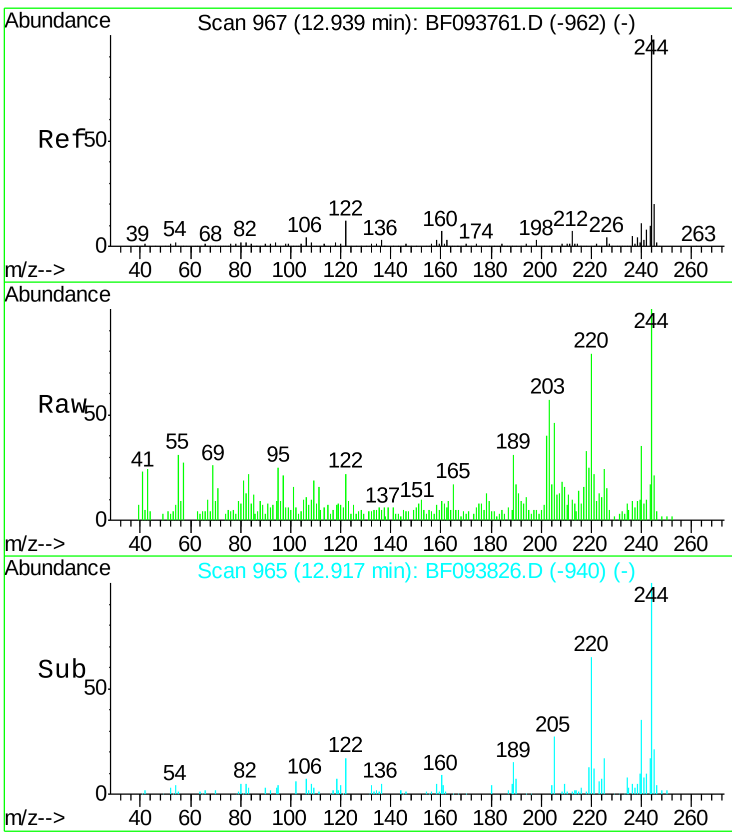


#77
Pyrene
Concen: 24.49 ng
RT: 12.78 min Scan# 953
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

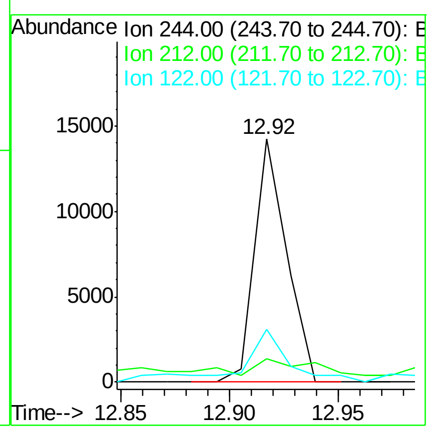
Tgt Ion:202		Resp:	782053
Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.6	26.4
203	17.8	14.4	21.6

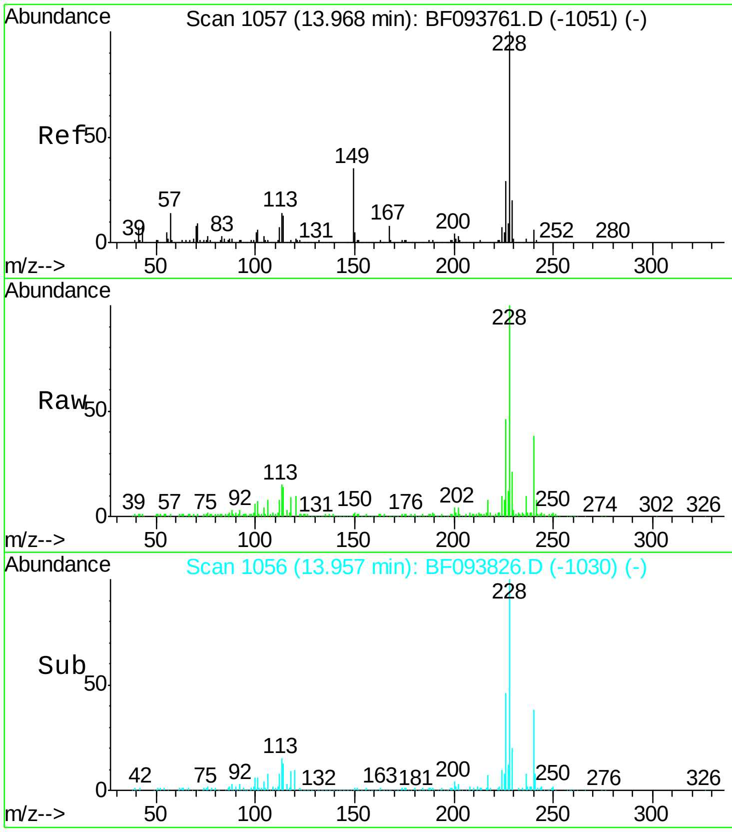




#78
Terphenyl-d14
Concen: 0.77 ng
RT: 12.92 min Scan# 965
Delta R.T. -0.01 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Tgt Ion:244		Resp:	14553
Ion	Ratio	Lower	Upper
244	100		
212	9.7	6.0	9.0#
122	21.8	10.3	15.5#



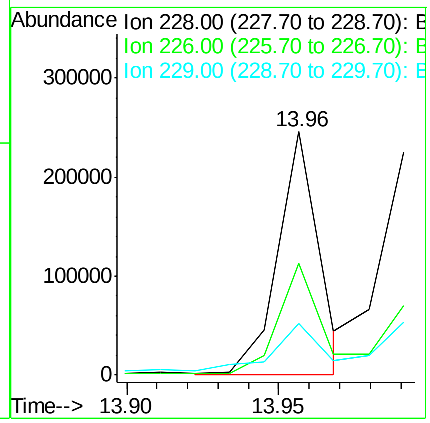


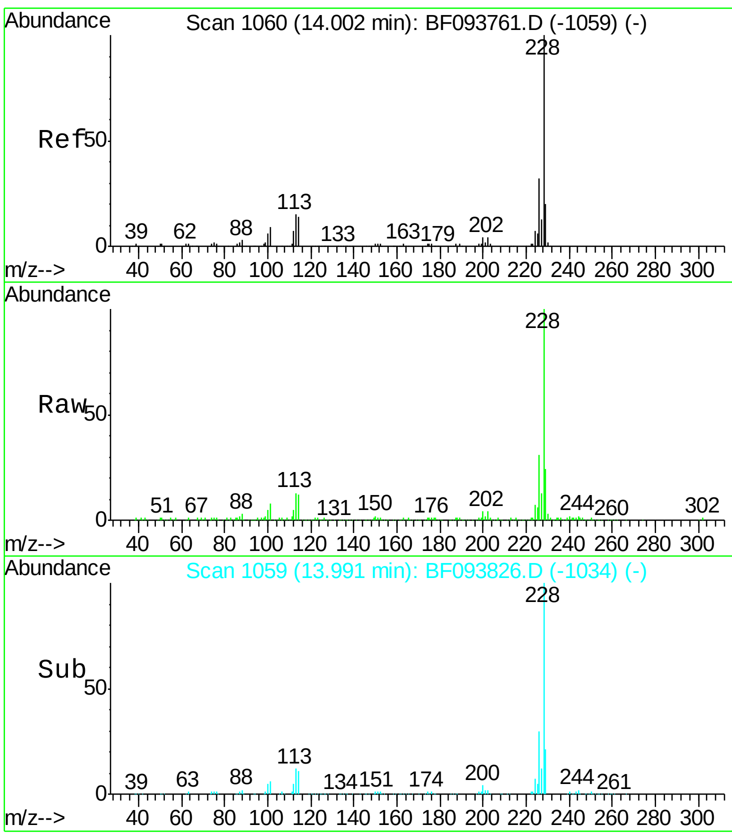
#80
Benzo(a)anthracene
Concen: 9.68 ng m
RT: 13.96 min Scan# 1056
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

Tgt Ion:228 Resp: 232568

Ion	Ratio	Lower	Upper
228	100		
226	46.0	22.6	33.8#
229	21.0	16.3	24.5

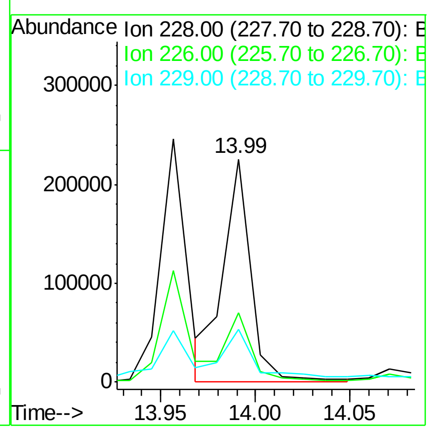


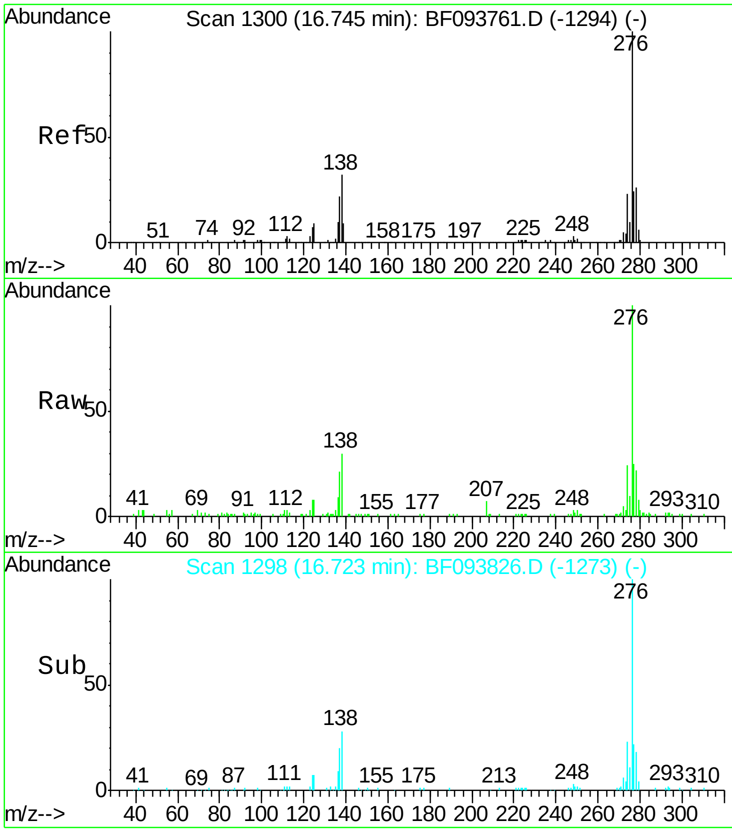


#82
Chrysene
Concen: 9.54 ng m
RT: 13.99 min Scan# 1059
Delta R.T. -0.01 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Tgt Ion:228 Resp: 229031

Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.9	37.3
229	23.5	15.8	23.6



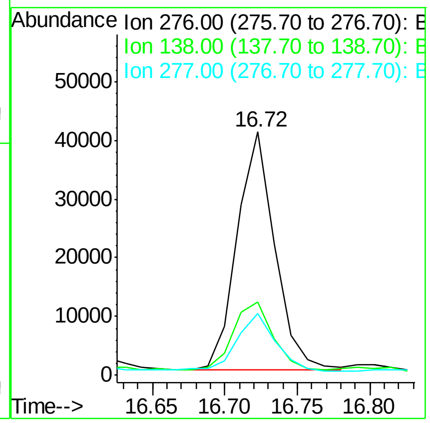


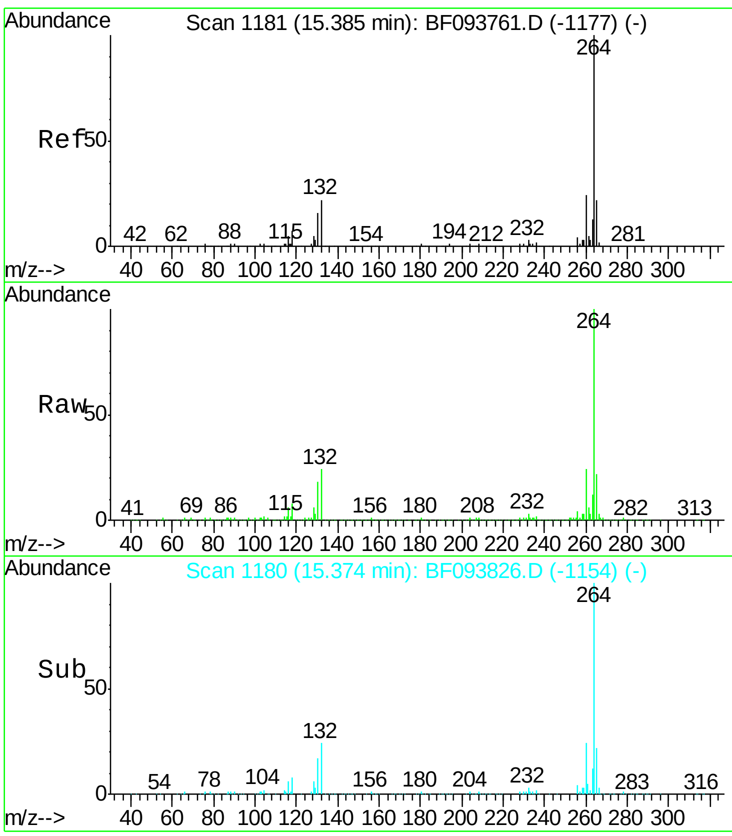
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.73 ng
RT: 16.72 min Scan# 1298
Delta R.T. -0.01 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

Tgt Ion:276 Resp: 73287

Ion	Ratio	Lower	Upper
276	100		
138	29.9	27.8	41.6
277	25.8	20.2	30.4

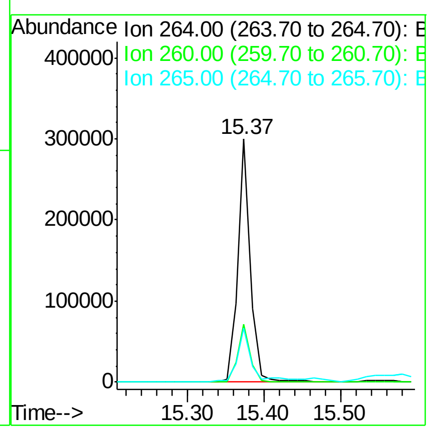


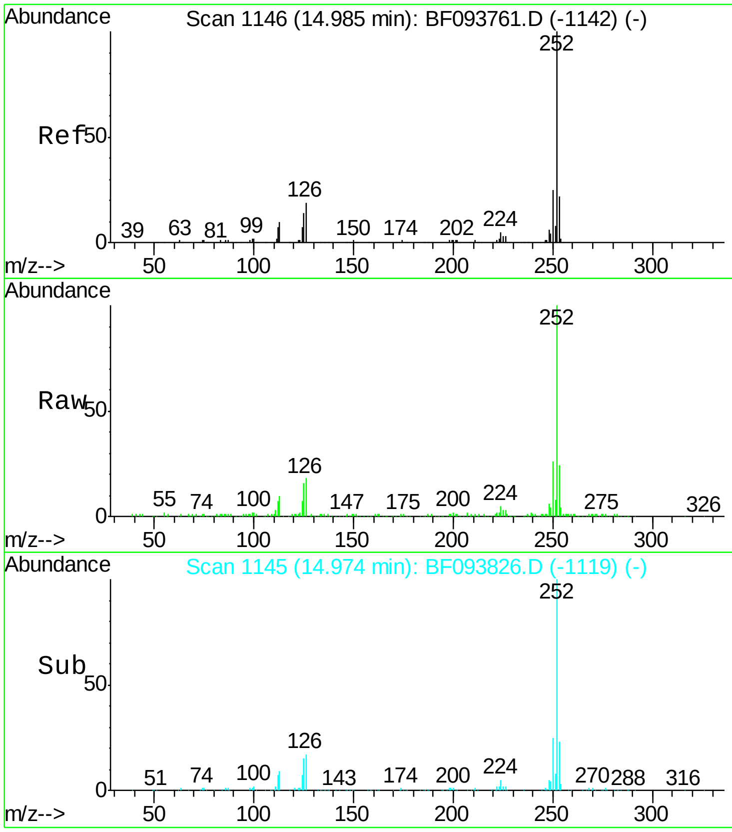


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.37 min Scan# 1180
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Tgt Ion:264 Resp: 354149

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	22.3	17.2	25.8



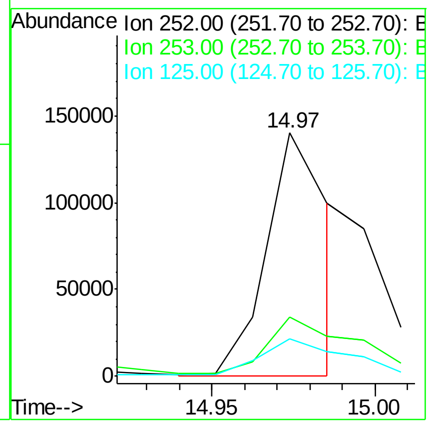


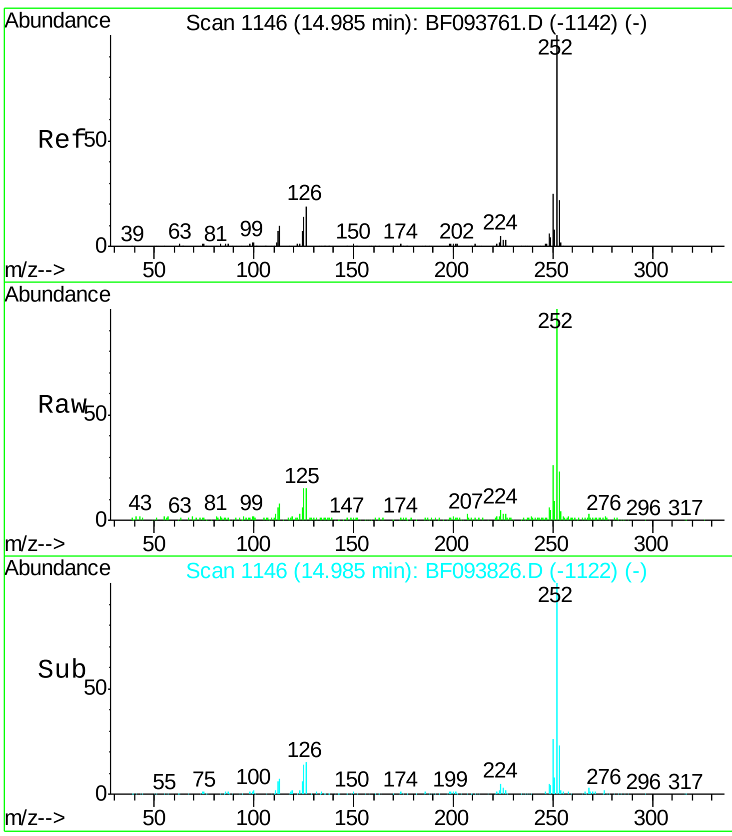
#87
Benzo(b)fluoranthene
Concen: 7.91 ng m
RT: 14.97 min Scan# 1145
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Instrument :
BNA_F
ClientSampleId :
HP-CT-02DL

Tgt Ion:252 Resp: 188891

Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.1	27.1
125	15.5	9.8	14.8#

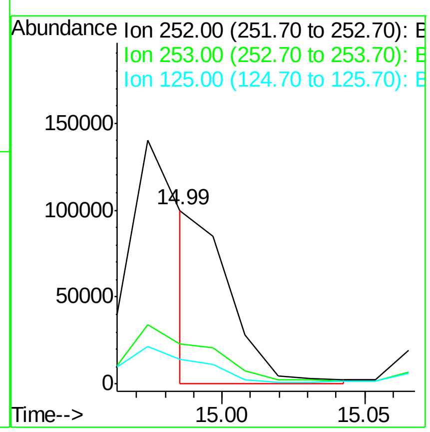


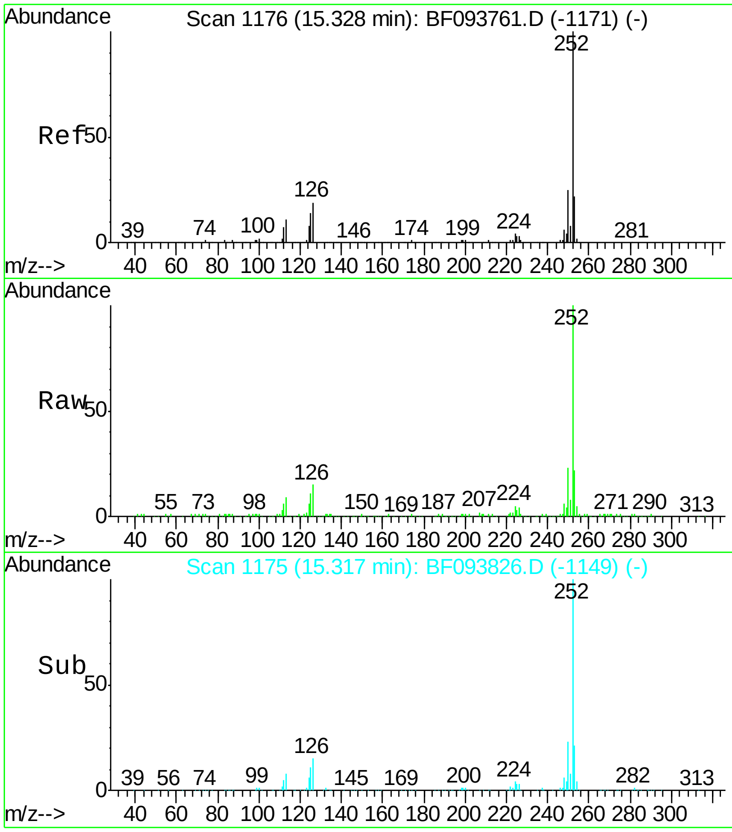


#88
Benzo(k)fluoranthene
Concen: 4.81 ng m
RT: 14.99 min Scan# 1146
Delta R.T. -0.02 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Tgt Ion:252 Resp: 84718

Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.4	27.6
125	14.6	13.1	19.7



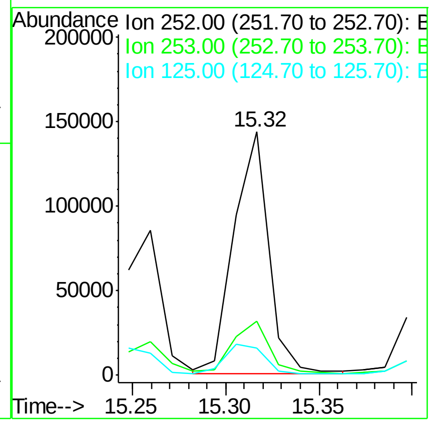


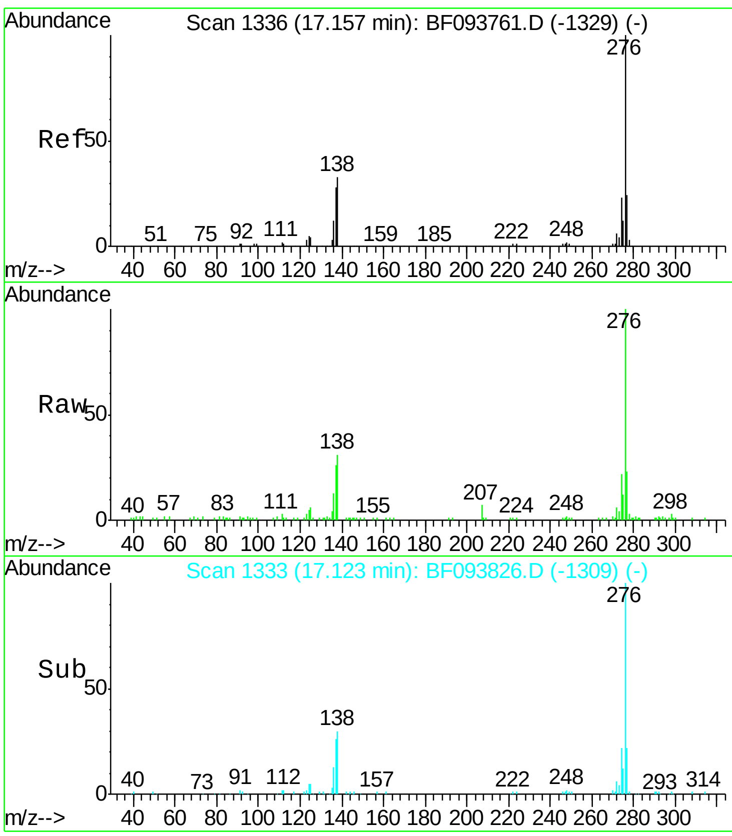
#89
Benzo(a)pyrene
Concen: 9.61 ng
RT: 15.32 min Scan# 1175
Delta R.T. -0.00 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Instrument : BNA_F
ClientSampleId : HP-CT-02DL

Tgt Ion:252 Resp: 186024

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	11.4	11.0	16.4





#91
Benzo(g,h,i)perylene
Concen: 5.11 ng
RT: 17.12 min Scan# 1333
Delta R.T. -0.02 min
Lab File: BF093826.D
Acq: 22 Mar 2017 9:35

Tgt Ion:276 Resp: 81498

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.6	28.0
138	30.9	25.4	38.0