Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\
Data File : BF097445.D
Acq On : 7 Aug 2017 22:45
Operator : SJ/JU
Sample : I4636-01 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-03-080417

Quant Time: Aug 08 04:50:41 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 07 16:02:51 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.41	152	97299	20.00 ng	0.00
21) Naphthalene-d8	7.69	136	363154	20.00 ng	0.00
38) Acenaphthene-d10	9.43	164	150868	20.00 ng	0.00
63) Phenanthrene-d10	10.91	188	210072	20.00 ng	0.00
75) Chrysene-d12	13.53	240	185441	20.00 ng	0.00
86) Perylene-d12	14.87	264	133174	20.00 ng	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	5.02	112	43660	6.76 ng	0.02
7) Phenol-d6	6.10	99	71274	9.67 ng	0.01
23) Nitrobenzene-d5	6.99	82	35241	5.69 ng	0.00
41) 2,4,6-Tribromophenol	10.23	330	8477	7.11 ng	0.00
44) 2-Fluorobiphenyl	8.77	172	69590	7.83 ng	0.00
78) Terphenyl-d14	12.49	244	45759	5.03 ng	-0.01
Target Compounds					Qvalue
25) Isophorone	6.99	82	35241	2.91 ng	# 67
48) Acenaphthylene	9.30	152	44166	3.03 ng	100
50) 2,6-Dinitrotoluene	9.43	165	20053	8.25 ng	# 34
56) 2,4-Dinitrotoluene	9.43	165	20053	7.18 ng	# 33
70) Phenanthrene	10.93	178	89056	7.91 ng	98
71) Anthracene	10.99	178	39611	3.44 ng	96
74) Fluoranthene	12.12	202	276816	25.10 ng	99
77) Pyrene	12.34	202	279214	18.39 ng	99
80) Benzo(a)anthracene	13.52	228	151322	12.61 ng	99
82) Chrysene	13.56	228	144126	12.30 ng	96
85) Indeno(1,2,3-cd)pyrene	16.07	276	52647	5.24 ng	99
87) Benzo(b)fluoranthene	14.53	252	211822	26.46 ng	# 96
88) Benzo(k)fluoranthene	14.53	252	211822	27.77 ng	100
89) Benzo(a)pyrene	14.83	252	112048	15.29 ng	97
90) Dibenzo(a,h)anthracene	16.06	278	12695	2.11 ng	# 86
91) Benzo(g,h,i)perylene	16.42	276	51755	8.21 ng	# 94

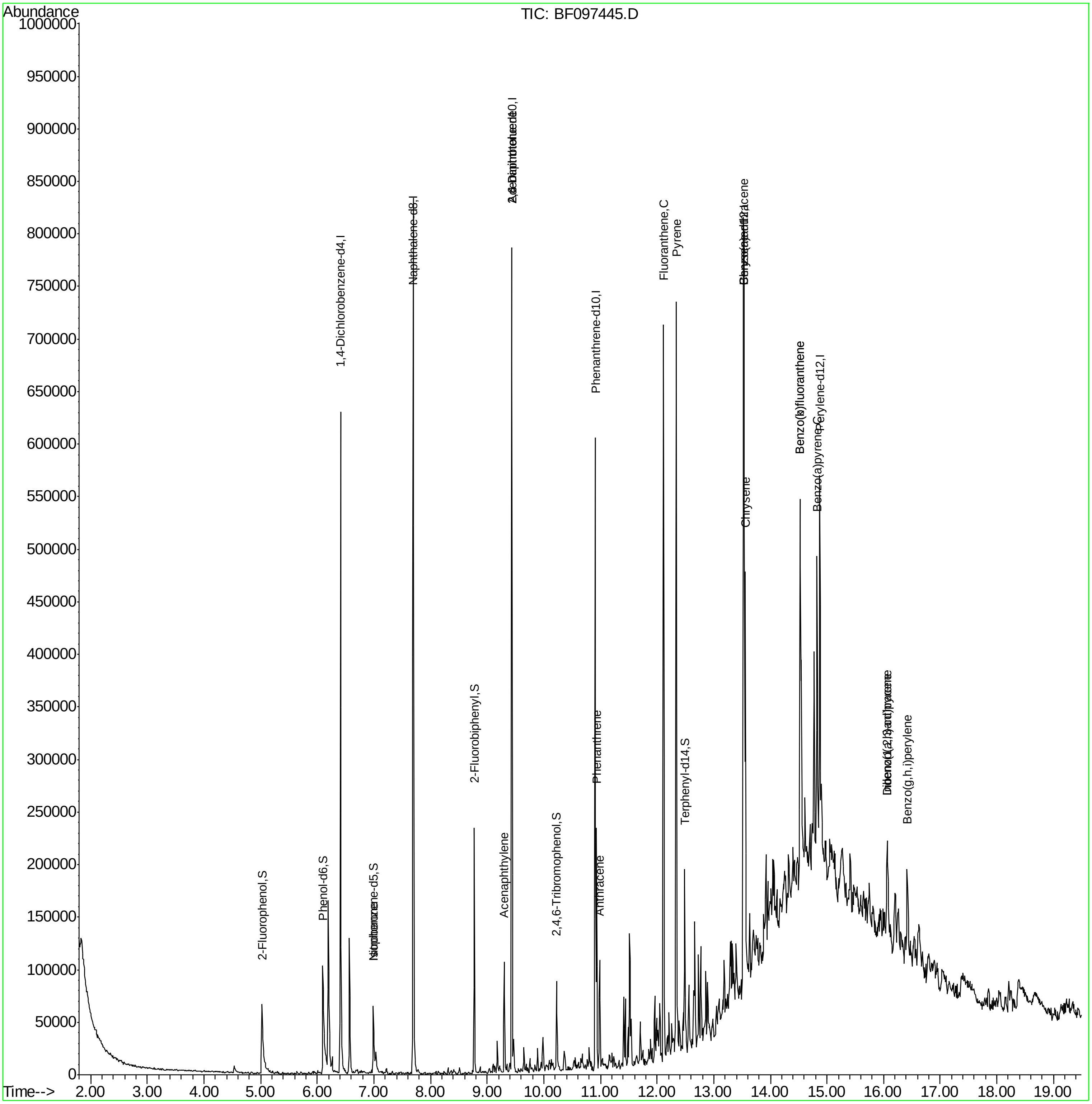
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

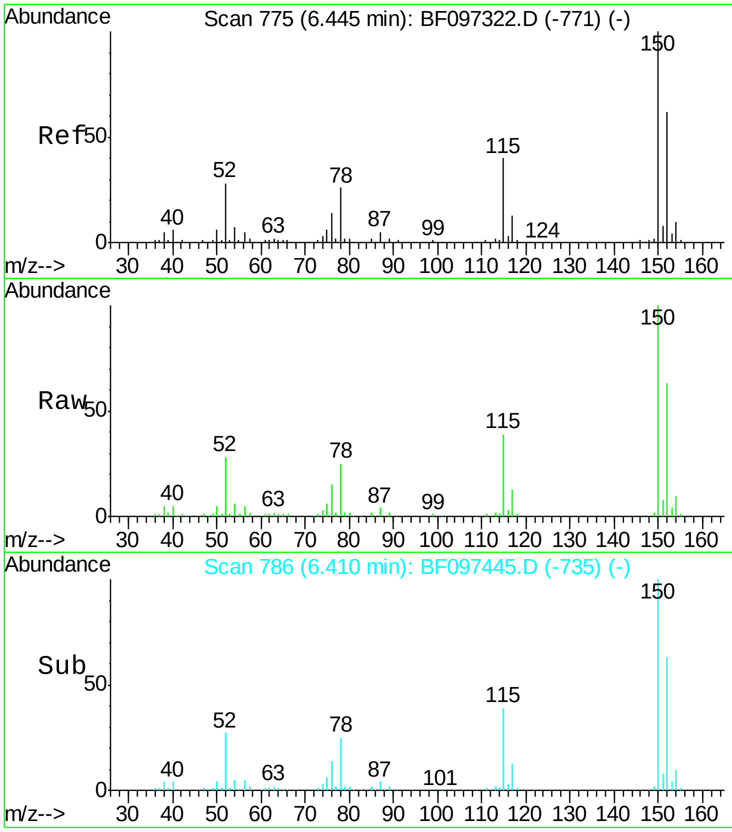
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\
Data File : BF097445.D
Acq On : 7 Aug 2017 22:45
Operator : SJ/JU
Sample : I4636-01 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-080417

Quant Time: Aug 08 04:50:41 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 07 16:02:51 2017
Response via : Initial Calibration



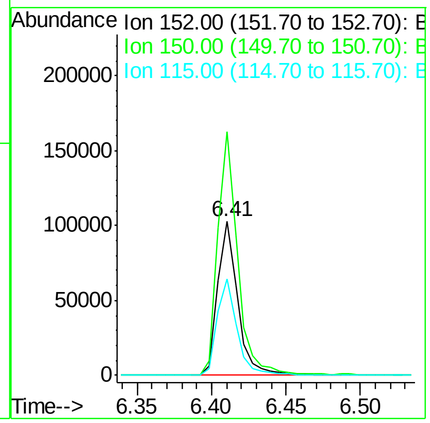
Instrument : BNA_F
ClientSampleId : SU-03-080417

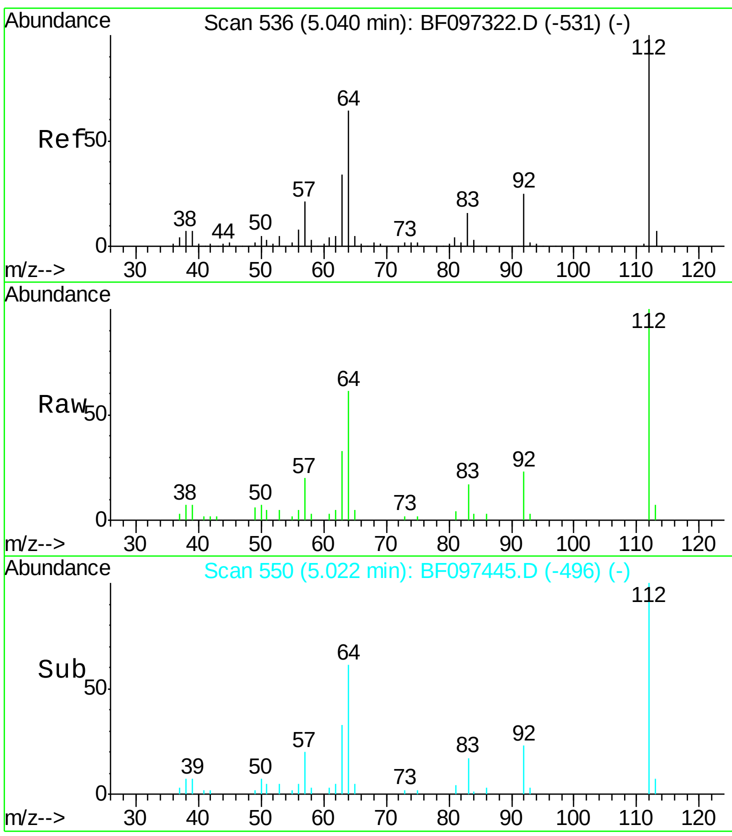


#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.41 min Scan# 786
Delta R.T. 0.00 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Tgt Ion:152 Resp: 97299

Ion	Ratio	Lower	Upper
152	100		
150	158.1	126.2	189.2
115	62.4	52.2	78.2

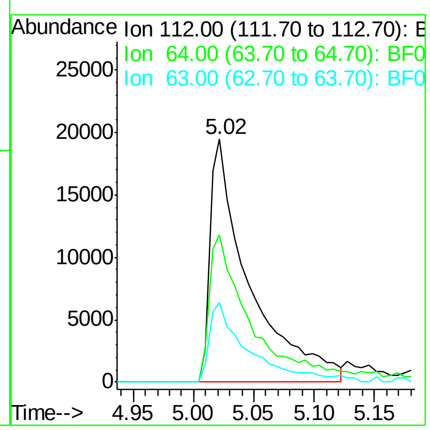


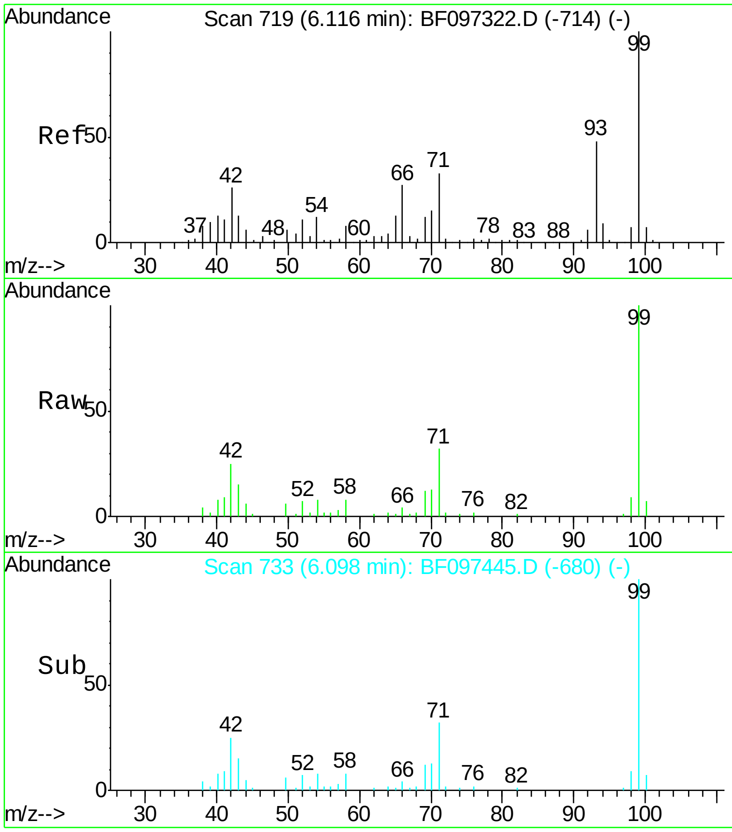


#5
2-Fluorophenol
Concen: 6.76 ng
RT: 5.02 min Scan# 550
Delta R.T. 0.02 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Tgt Ion:112 Resp: 43660

Ion	Ratio	Lower	Upper
112	100		
64	60.7	46.0	69.0
63	32.9	23.4	35.0



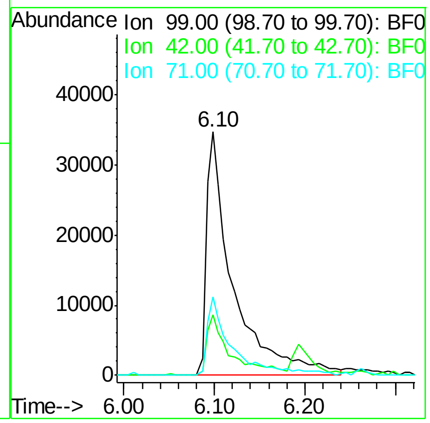


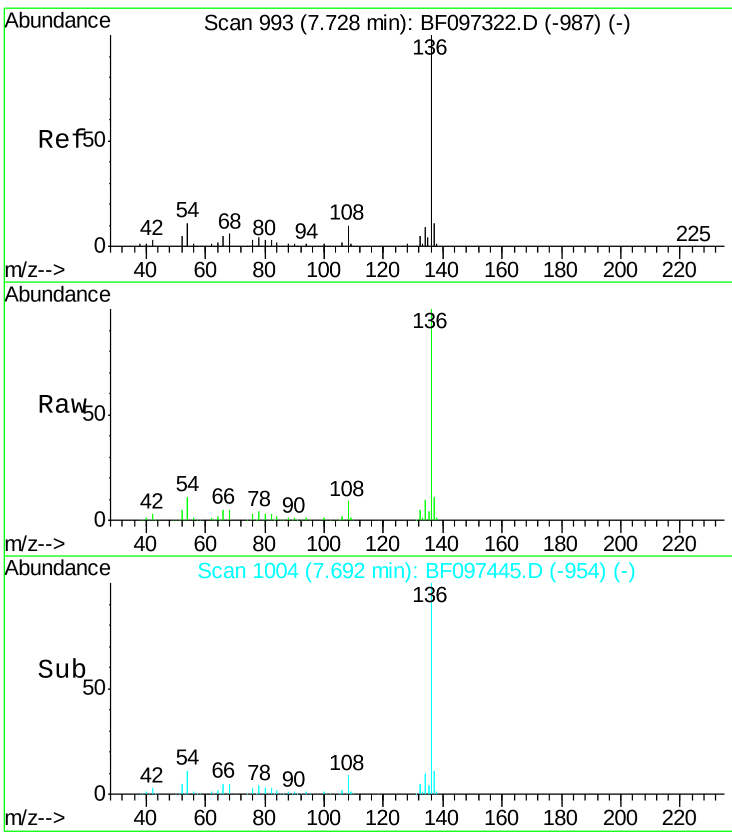
#7
Phenol-d6
Concen: 9.67 ng
RT: 6.10 min Scan# 733
Delta R.T. 0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Instrument :
BNA_F
ClientSampleId :
SU-03-080417

Tgt Ion: 99 Resp: 71274

Ion	Ratio	Lower	Upper
99	100		
42	24.9	13.5	20.3#
71	32.3	24.5	36.7

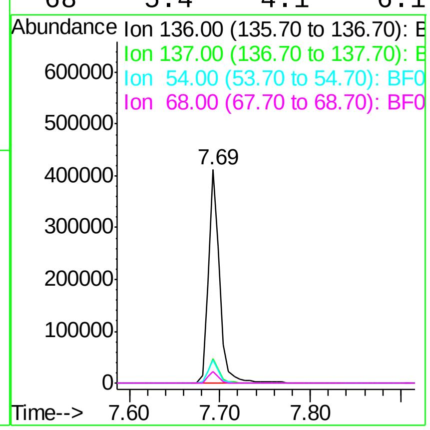


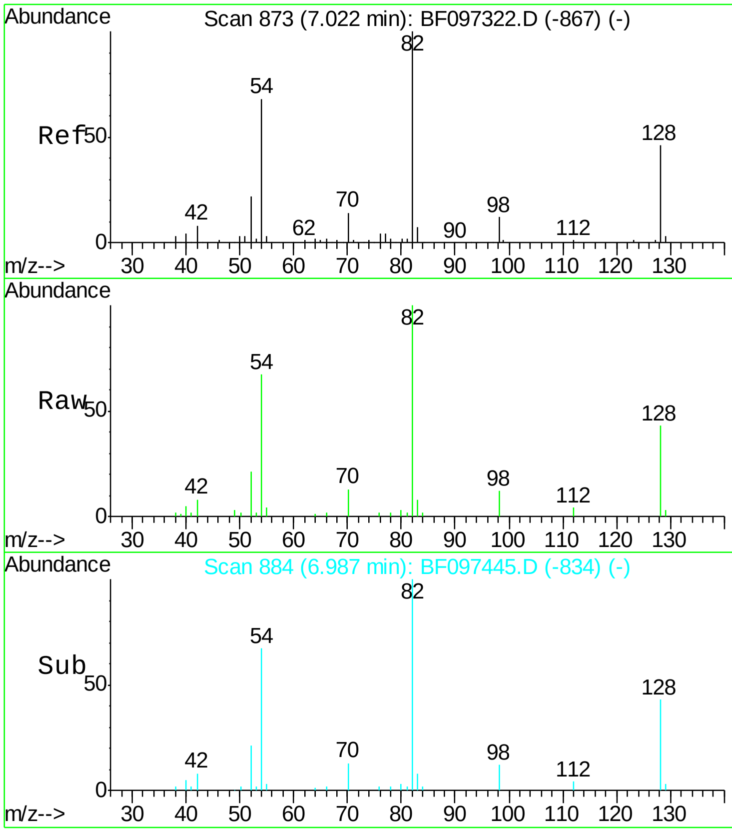


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.69 min Scan# 1004
Delta R.T. -0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Tgt Ion:136 Resp: 363154

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.5	12.7
54	10.8	4.9	7.3#
68	5.4	4.1	6.1



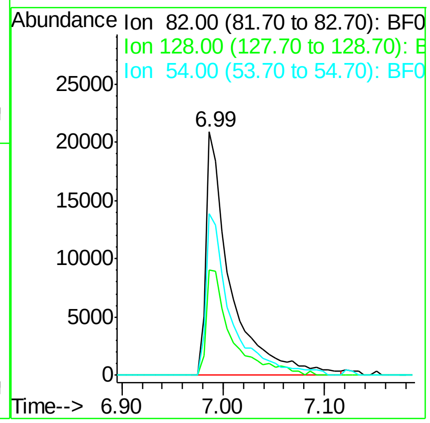


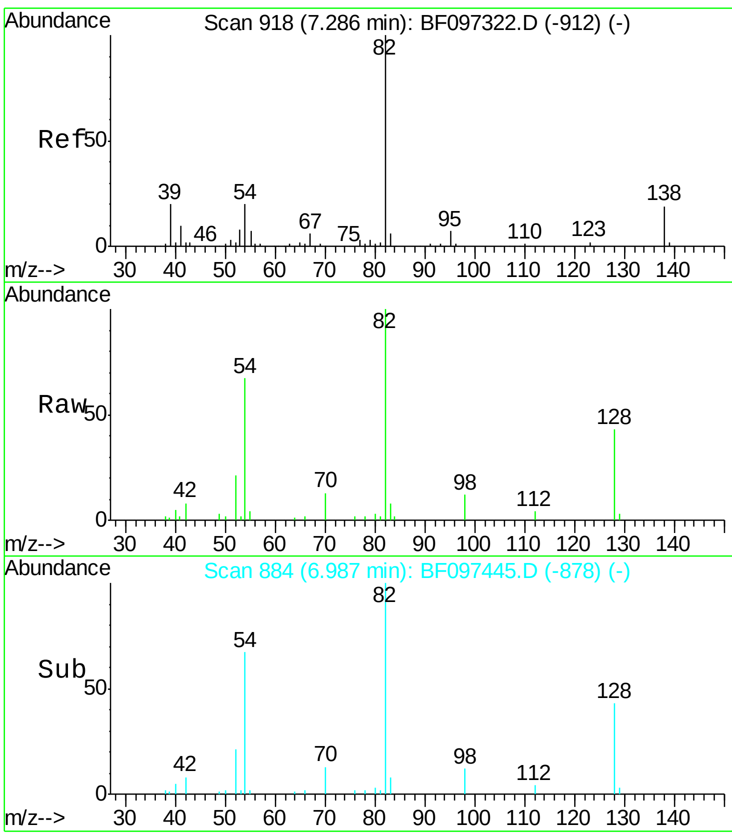
#23
Nitrobenzene-d5
Concen: 5.69 ng
RT: 6.99 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Instrument : BNA_F
ClientSampleId : SU-03-080417

Tgt Ion: 82 Resp: 35241

Ion	Ratio	Lower	Upper
82	100		
128	43.0	34.0	51.0
54	66.6	42.2	63.2#

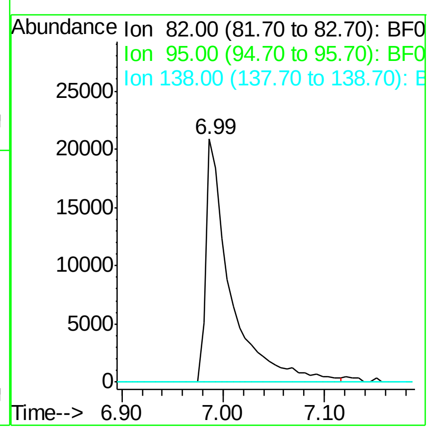


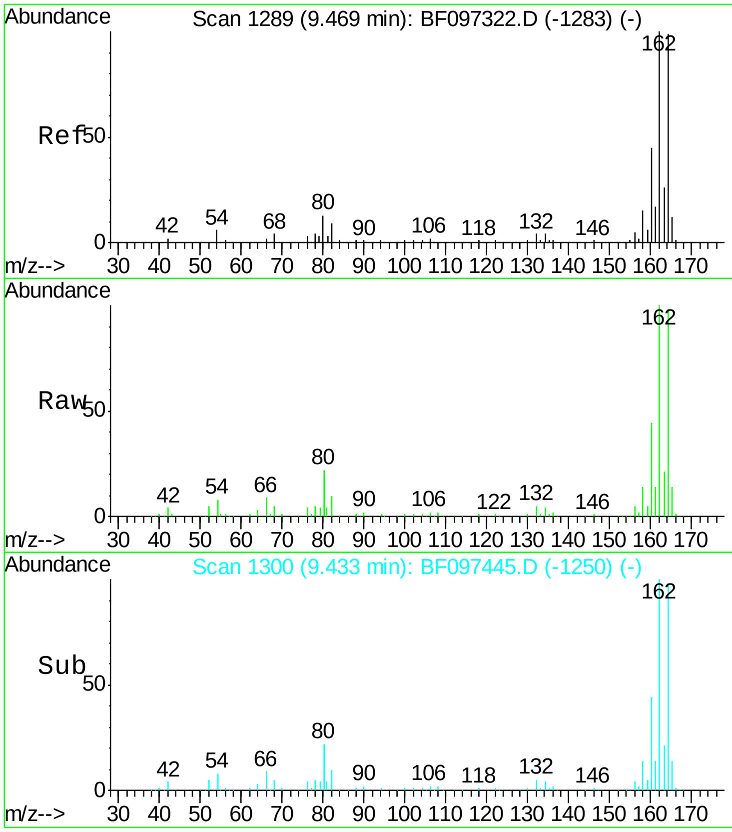


#25
Isophorone
Concen: 2.91 ng
RT: 6.99 min Scan# 884
Delta R.T. -0.26 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Tgt Ion: 82 Resp: 35241

Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.3	7.9#
138	0.0	13.1	19.7#



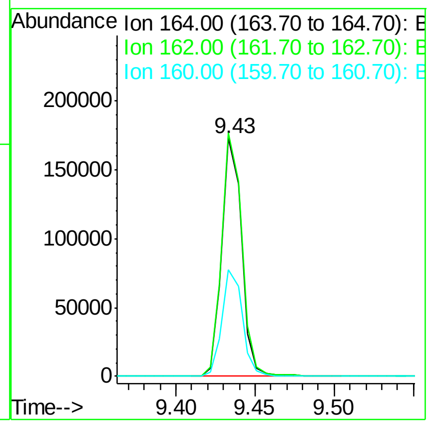


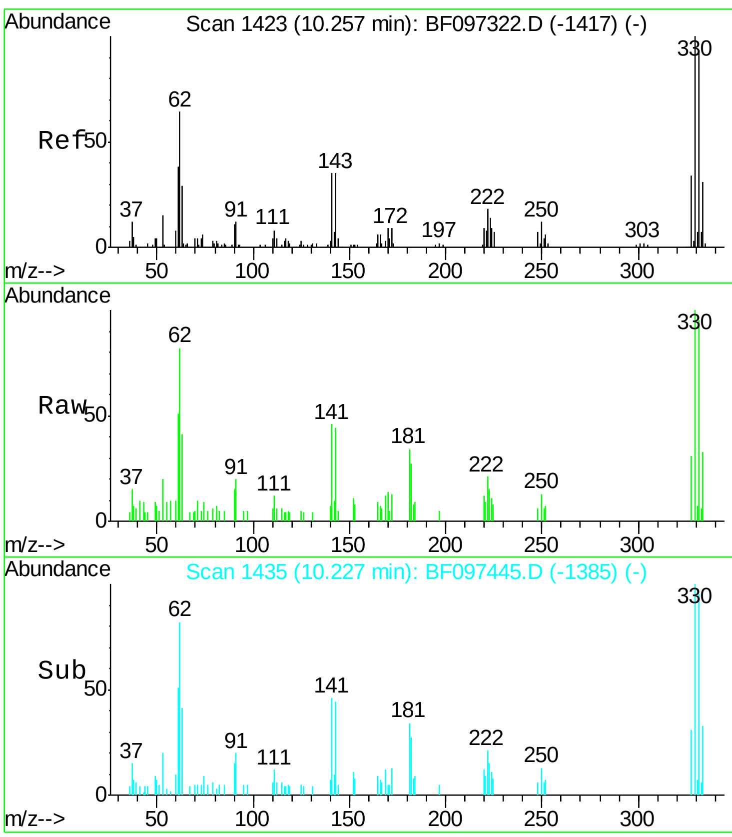
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.43 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Instrument :
BNA_F
ClientSampleId :
SU-03-080417

Tgt Ion:164 Resp: 150868

Ion	Ratio	Lower	Upper
164	100		
162	102.1	82.6	123.8
160	44.7	36.2	54.2

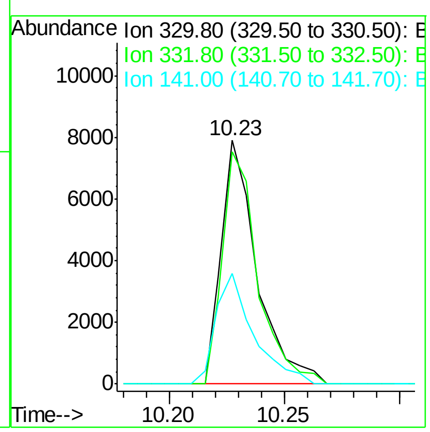


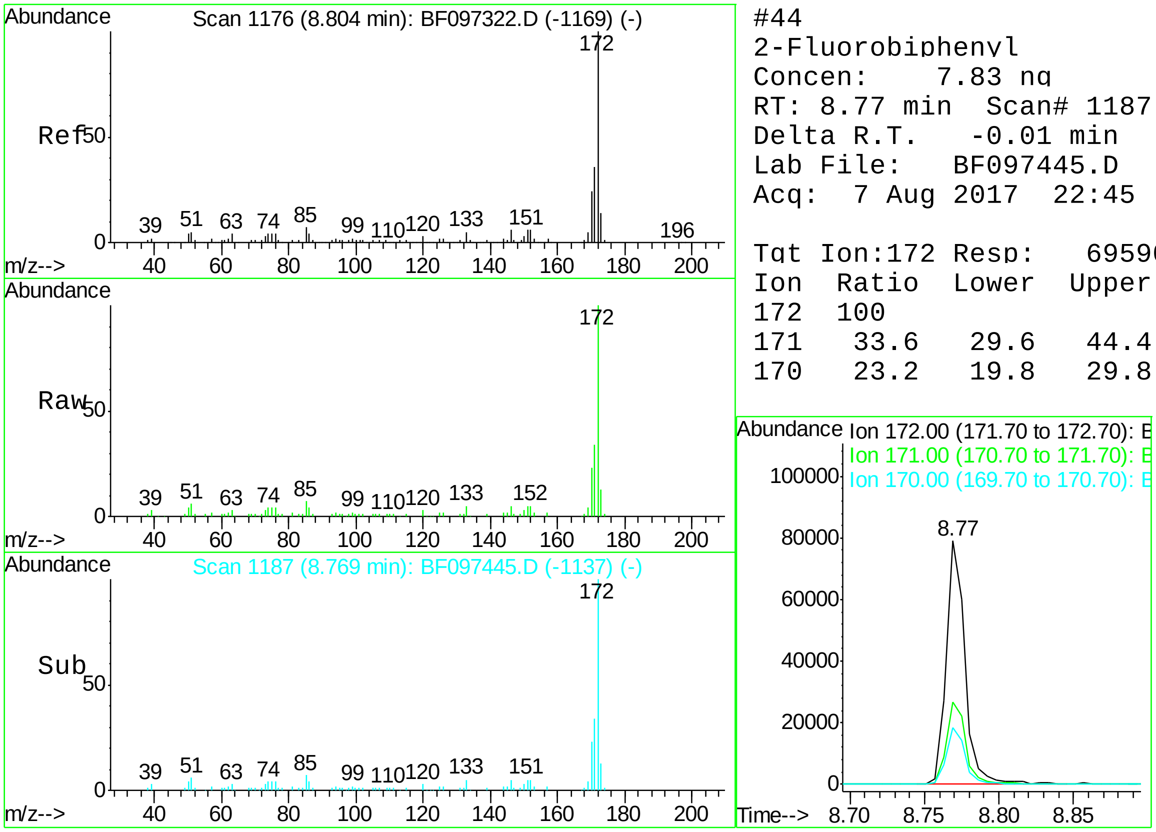


#41
2,4,6-Tribromophenol
Concen: 7.11 ng
RT: 10.23 min Scan# 1435
Delta R.T. -0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Tgt Ion:330 Resp: 8477

Ion	Ratio	Lower	Upper
330	100		
332	95.3	76.6	115.0
141	48.1	31.4	47.2#



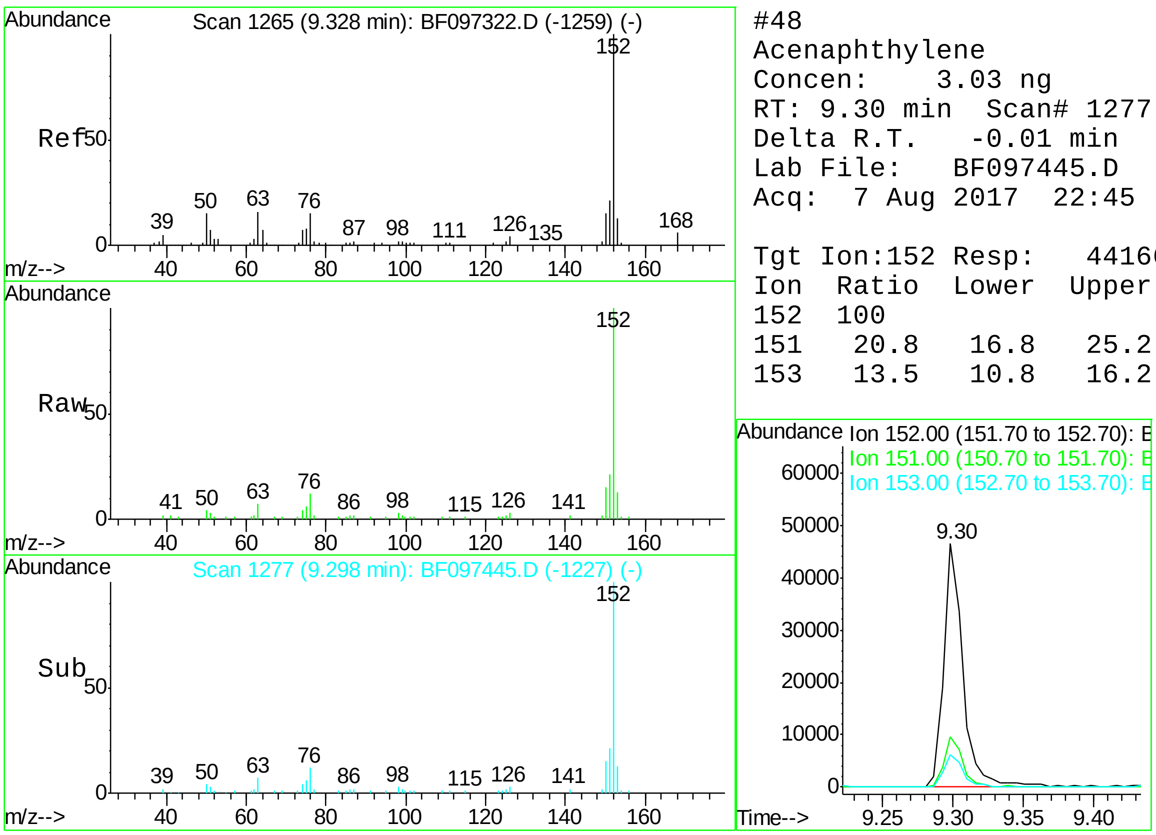


#44
2-Fluorobiphenyl
Concen: 7.83 ng
RT: 8.77 min Scan# 1187
Delta R.T. -0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Instrument : BNA_F
ClientSampleId : SU-03-080417

Tgt Ion:172 Resp: 69590

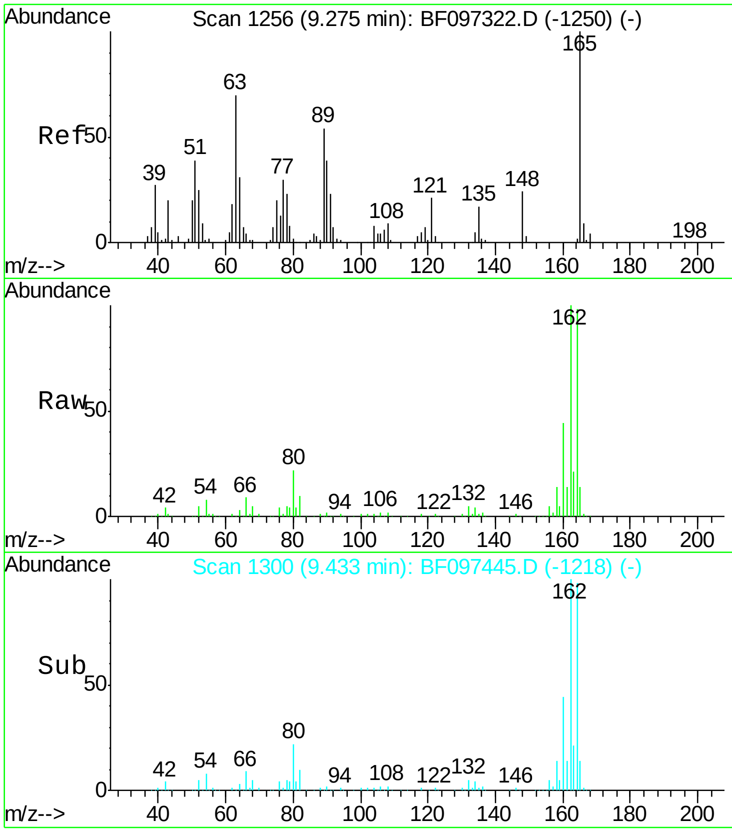
Ion	Ratio	Lower	Upper
172	100		
171	33.6	29.6	44.4
170	23.2	19.8	29.8



#48
Acenaphthylene
Concen: 3.03 ng
RT: 9.30 min Scan# 1277
Delta R.T. -0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

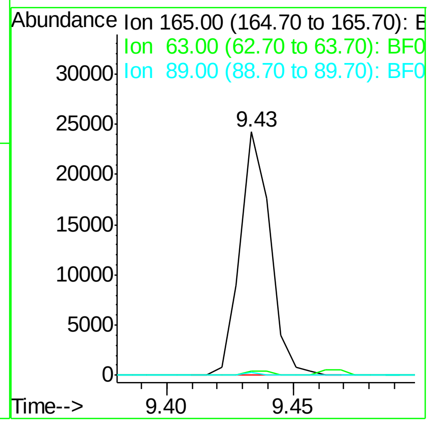
Tgt Ion:152 Resp: 44166

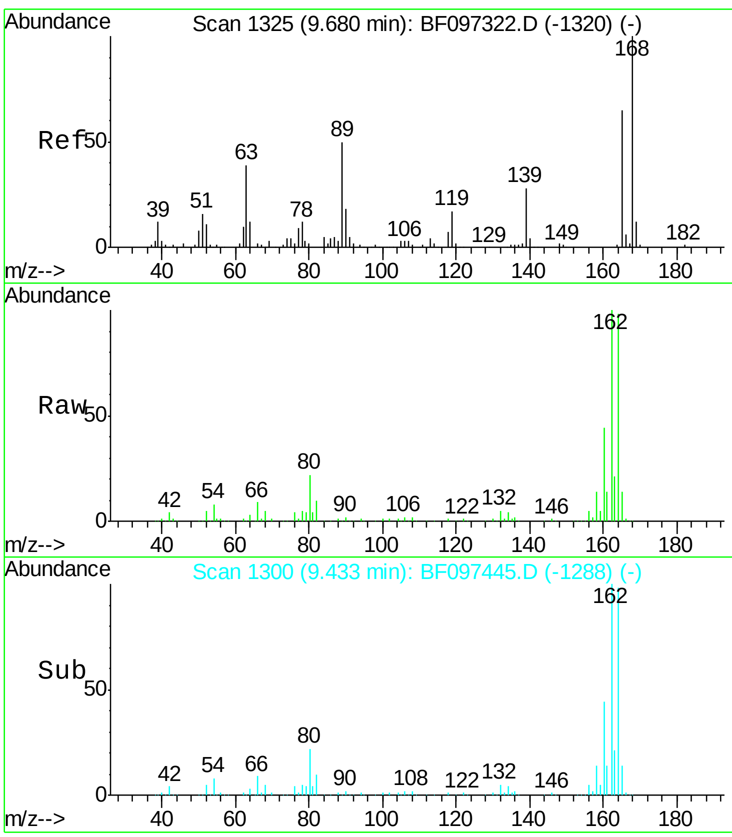
Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.8	25.2
153	13.5	10.8	16.2



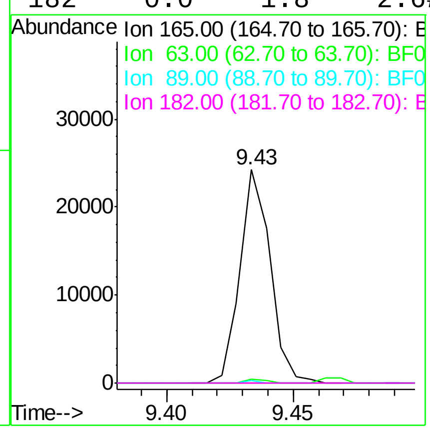

```
#50
2,6-Dinitrotoluene
Concen:    8.25 ng
RT: 9.43 min   Scan# 1300
Delta R.T.    0.18 min
Lab File:   BF097445.D
Acq:  7 Aug 2017   22:45

Tgt Ion:165 Resp:   20053
Ion  Ratio   Lower   Upper
165  100
 63     1.7    34.3    51.5#
 89     1.4    37.1    55.7#
```

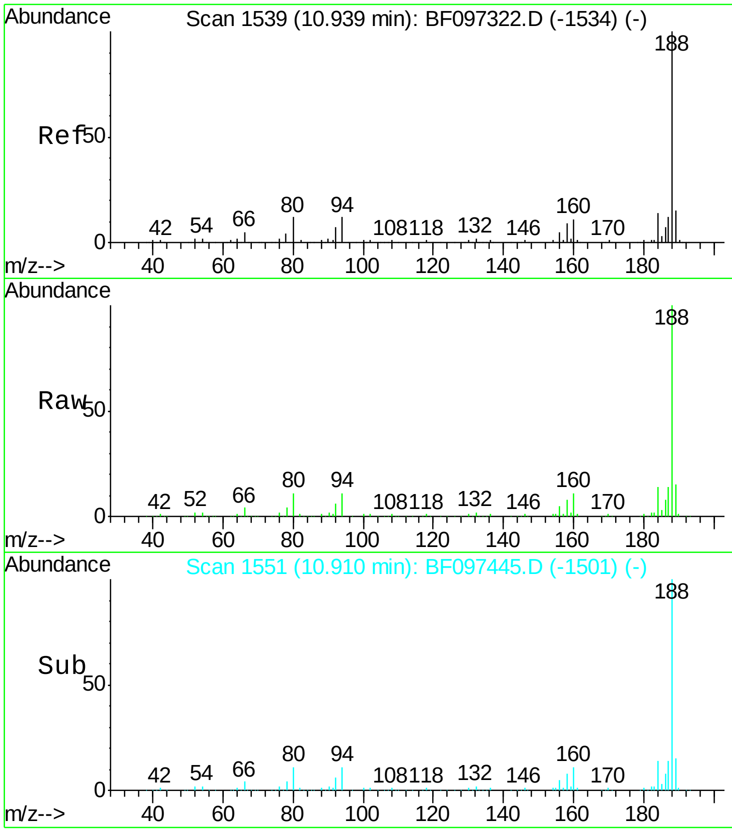
Instrument :
BNA_F
ClientSampleId :
SU-03-080417






```
#56
2,4-Dinitrotoluene
Concen:    7.18 ng
RT: 9.43 min   Scan# 1300
Delta R.T.   -0.23 min
Lab File:   BF097445.D
Acq:  7 Aug 2017   22:45

Tgt Ion:165 Resp:   20053
Ion  Ratio   Lower   Upper
165  100
 63     1.7    25.4    38.0#
 89     1.4    46.4    69.6#
182     0.0     1.8     2.6#
```



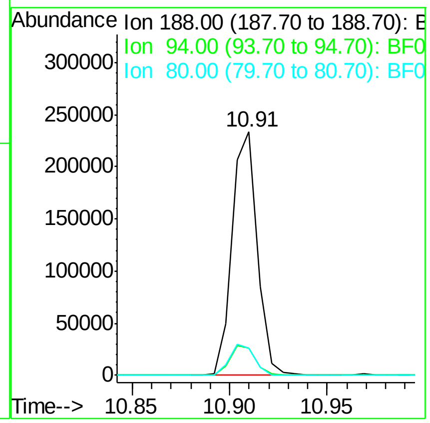


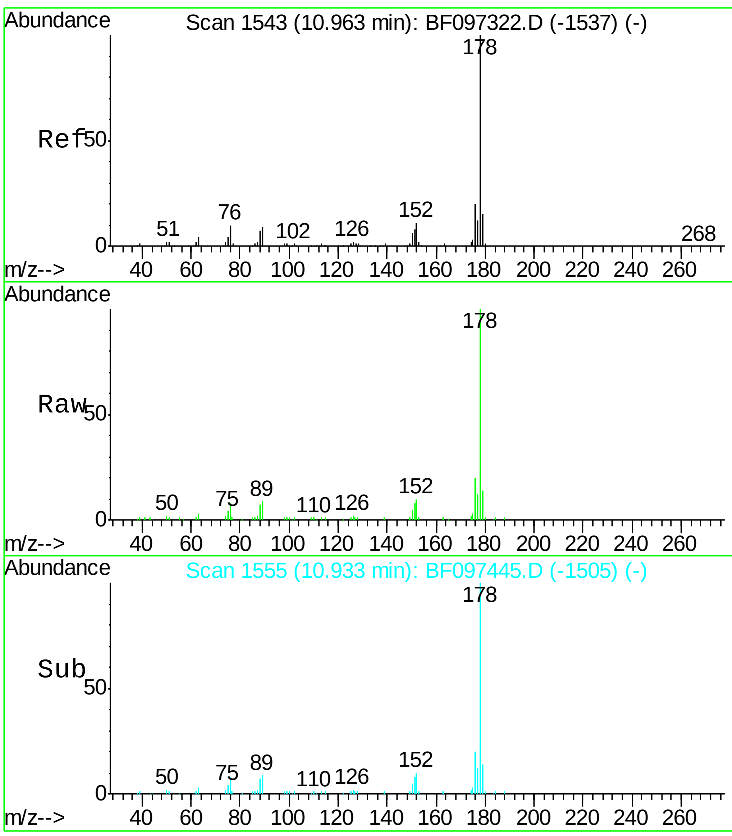
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.91 min Scan# 1551
Delta R.T. -0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Instrument : BNA_F
ClientSampleId : SU-03-080417

Tgt Ion:188 Resp: 210072

Ion	Ratio	Lower	Upper
188	100		
94	11.0	9.4	14.2
80	11.2	10.2	15.2

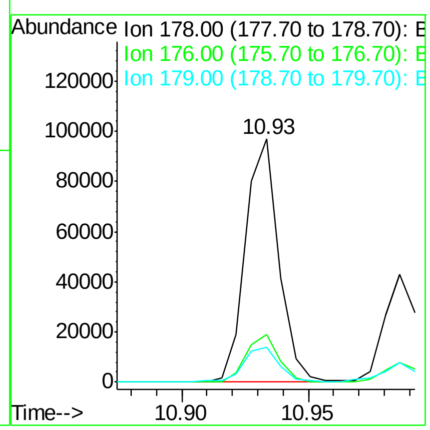


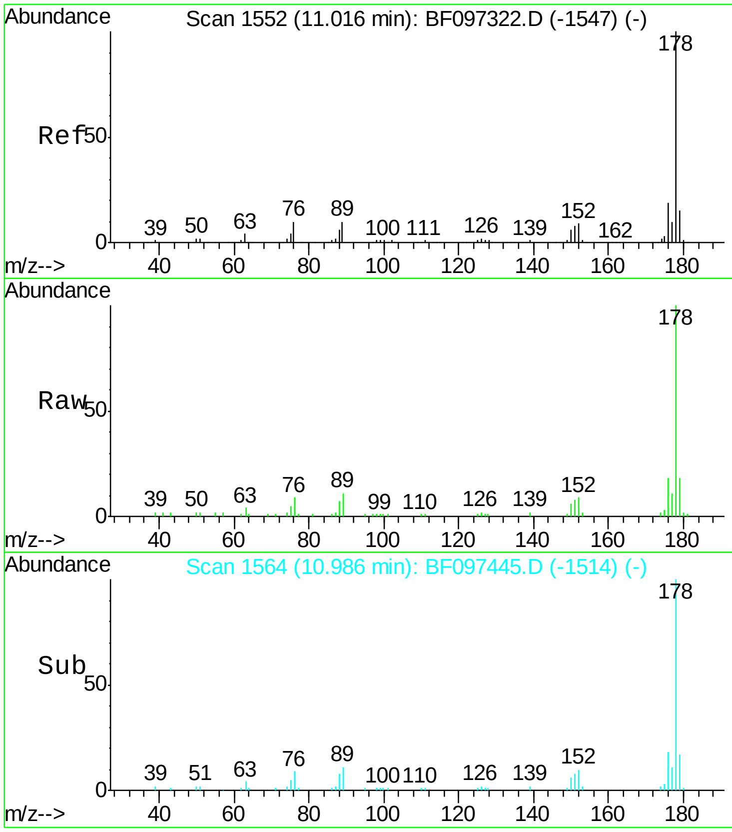


#70
Phenanthrene
Concen: 7.91 ng
RT: 10.93 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Tgt Ion:178 Resp: 89056

Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.2	24.4
179	14.3	12.6	19.0



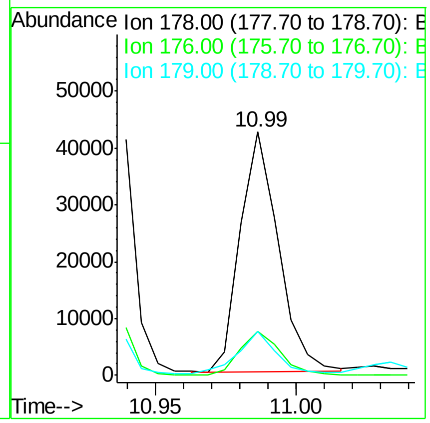


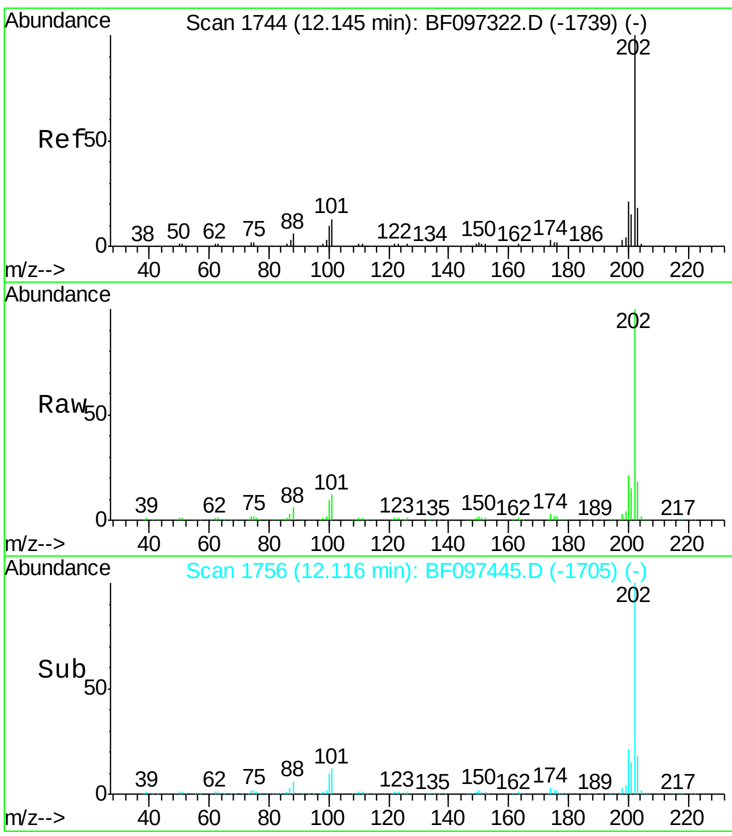
#71
Anthracene
Concen: 3.44 ng
RT: 10.99 min Scan# 1564
Delta R.T. -0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Instrument : BNA_F
ClientSampleId : SU-03-080417

Tgt Ion:178 Resp: 39611

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.8	23.8
179	17.8	12.7	19.1

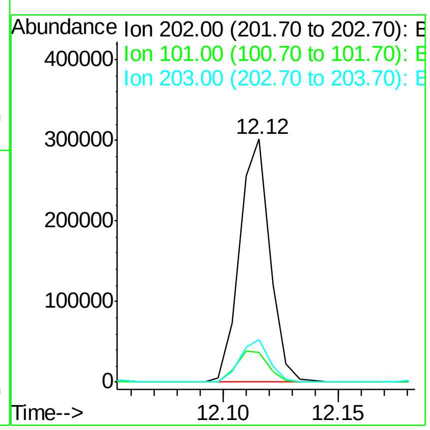


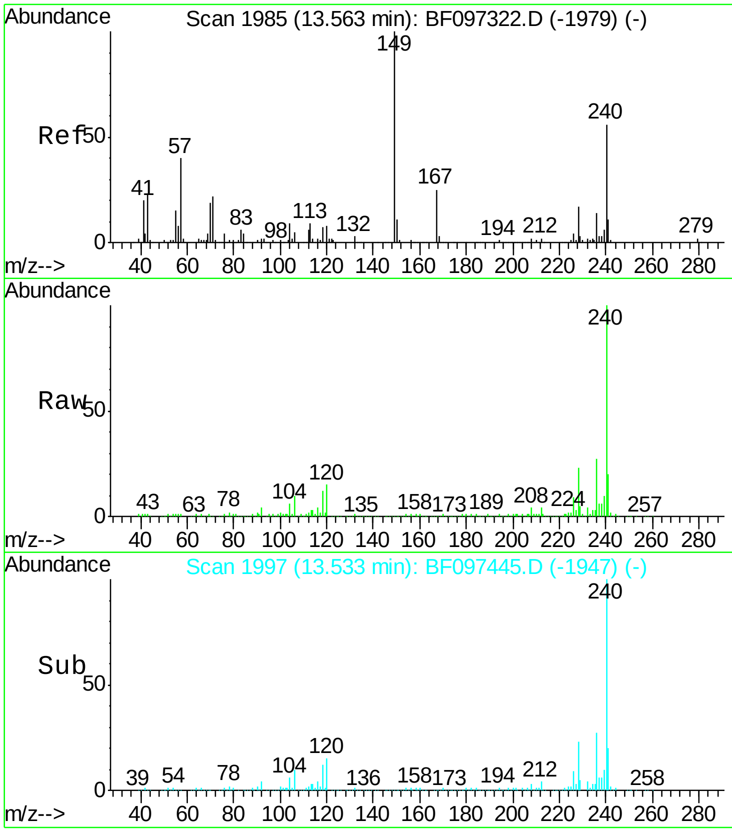


#74
Fluoranthene
Concen: 25.10 ng
RT: 12.12 min Scan# 1756
Delta R.T. 0.00 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Tgt Ion:202 Resp: 276816

Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	33.2
203	17.6	0.0	38.1

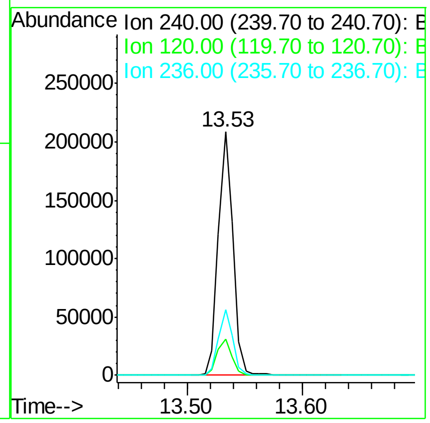


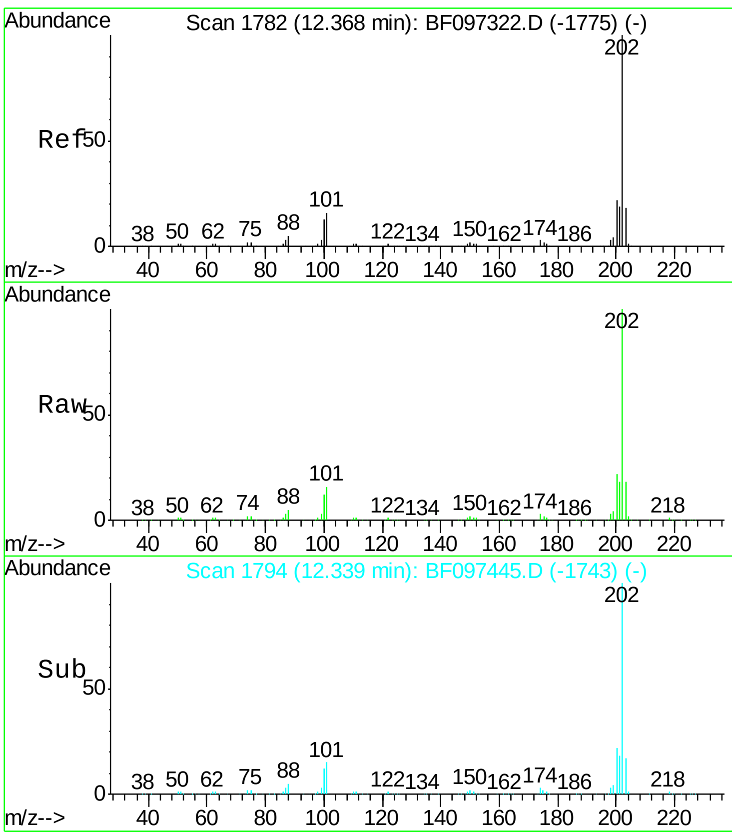


#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.53 min   Scan# 1997
Delta R.T.   -0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017   22:45

Instrument : BNA_F
ClientSampleId : SU-03-080417

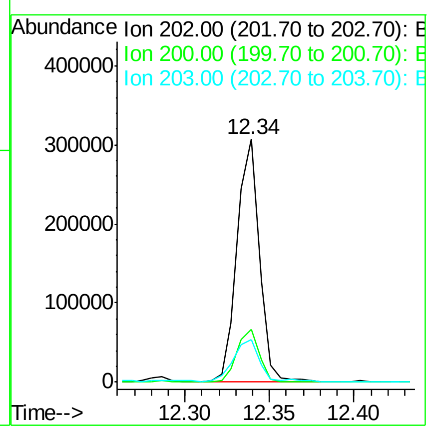
Tgt	Ion:240	Resp:	185441
Ion	Ratio	Lower	Upper
240	100		
120	15.0	5.8	8.8#
236	27.2	20.5	30.7

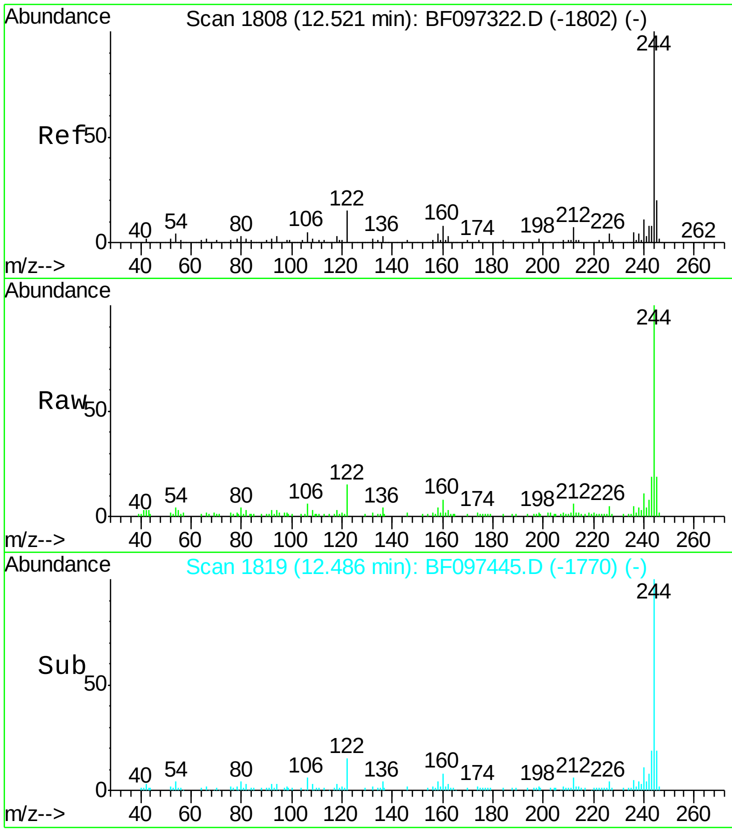




#77
Pyrene
Concen: 18.39 ng
RT: 12.34 min   Scan# 1794
Delta R.T.   0.00 min
Lab File: BF097445.D
Acq: 7 Aug 2017   22:45

Tgt	Ion:202	Resp:	279214
Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.6	26.4
203	17.6	14.4	21.6



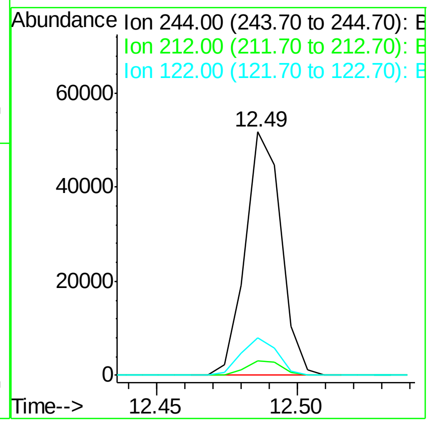


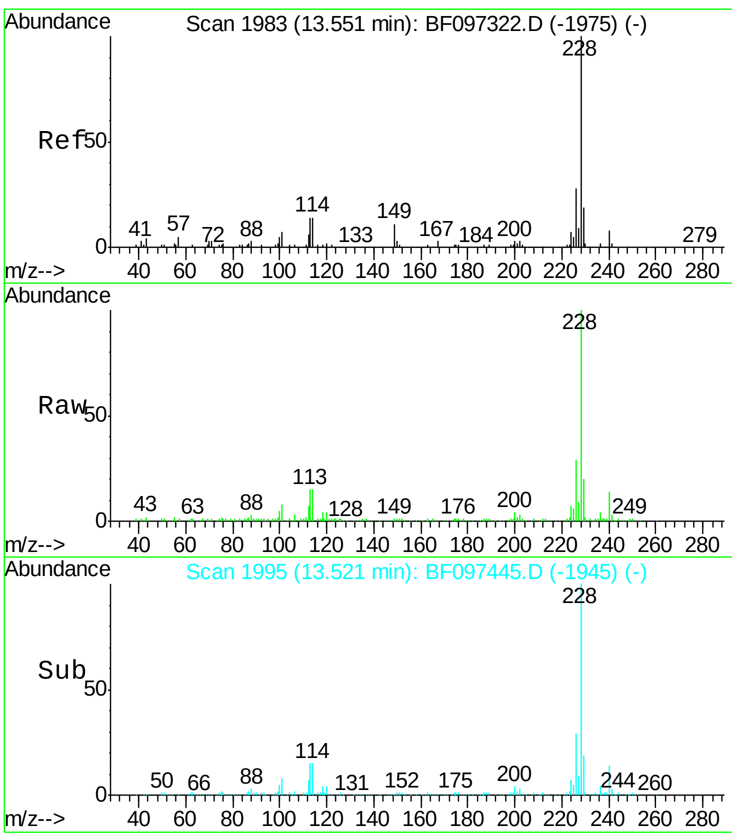
#78
Terphenyl-d14
Concen: 5.03 ng
RT: 12.49 min Scan# 1819
Delta R.T. -0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Instrument :
BNA_F
ClientSampleId :
SU-03-080417

Tgt Ion:244 Resp: 45759

Ion	Ratio	Lower	Upper
244	100		
212	6.1	6.0	9.0
122	15.5	10.3	15.5#

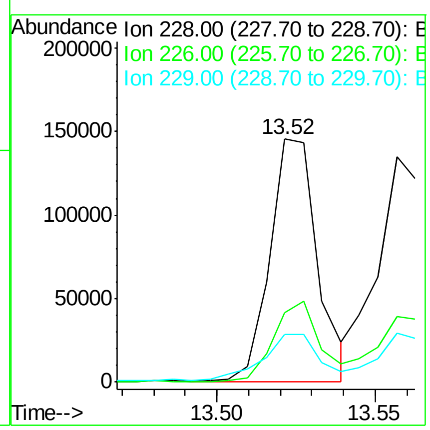


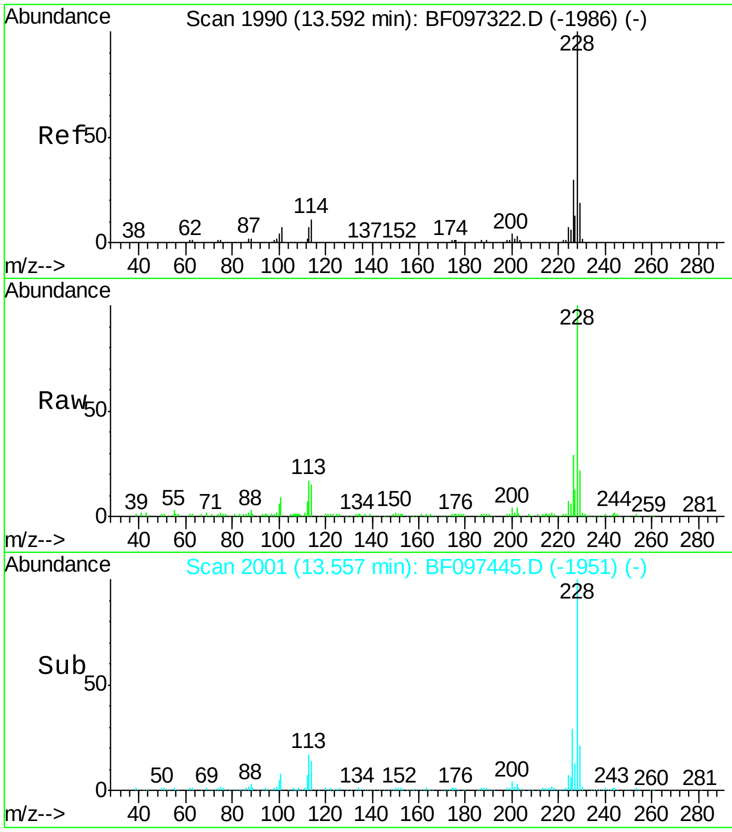


#80
Benzo(a)anthracene
Concen: 12.61 ng
RT: 13.52 min Scan# 1995
Delta R.T. -0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Tgt Ion:228 Resp: 151322

Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.6	33.8
229	19.8	16.3	24.5



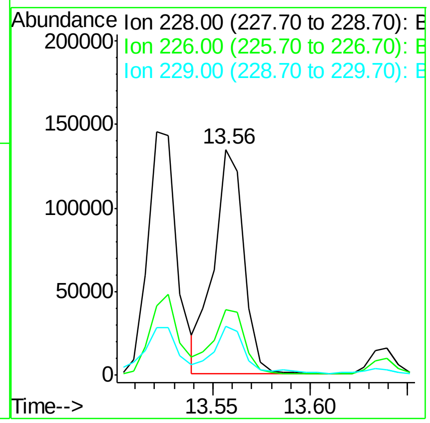


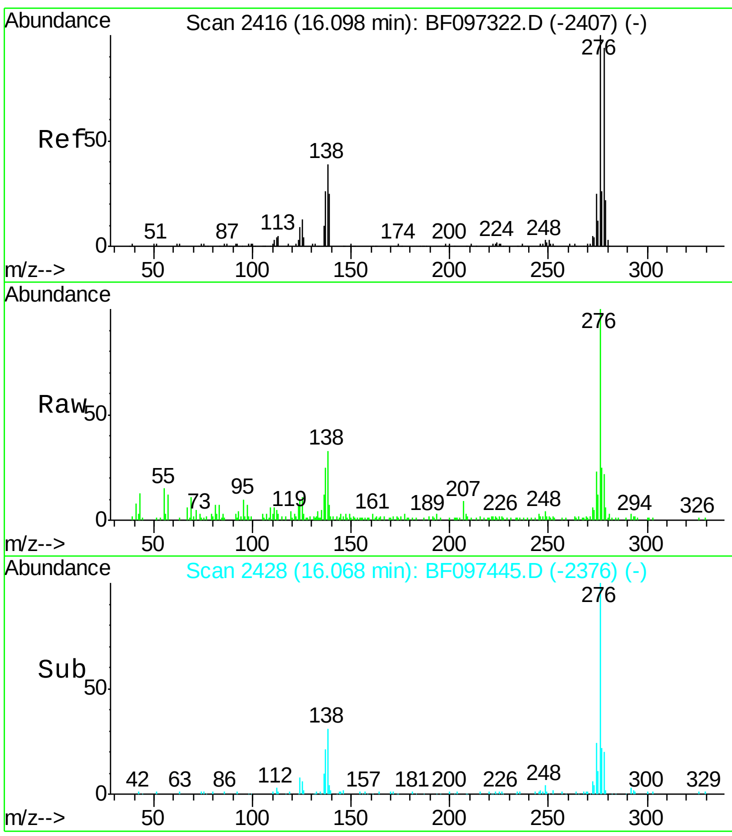
#82
Chrysene
Concen: 12.30 ng
RT: 13.56 min   Scan# 2001
Delta R.T.   -0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017   22:45

Instrument :
BNA_F
ClientSampleId :
SU-03-080417

Tgt Ion:228 Resp: 144126

Ion	Ratio	Lower	Upper
228	100		
226	29.2	24.9	37.3
229	21.5	15.8	23.6

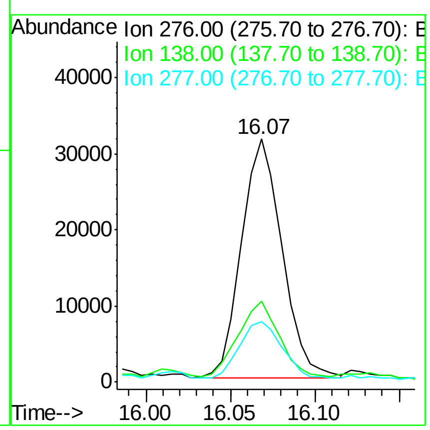


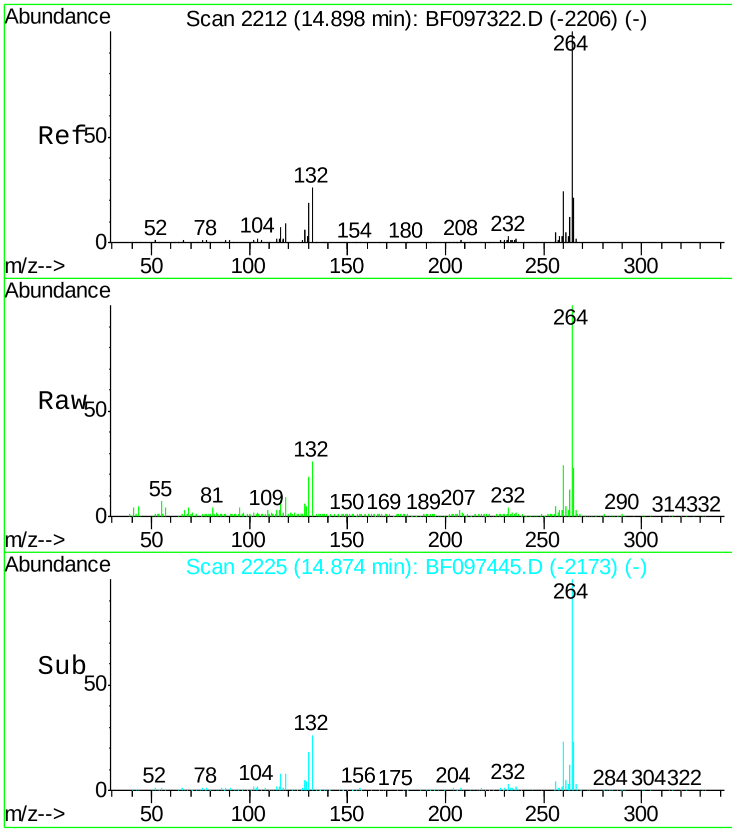


#85
Indeno(1,2,3-cd)pyrene
Concen: 5.24 ng
RT: 16.07 min   Scan# 2428
Delta R.T.   0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017   22:45

Tgt Ion:276 Resp: 52647

Ion	Ratio	Lower	Upper
276	100		
138	33.4	27.8	41.6
277	25.3	20.2	30.4



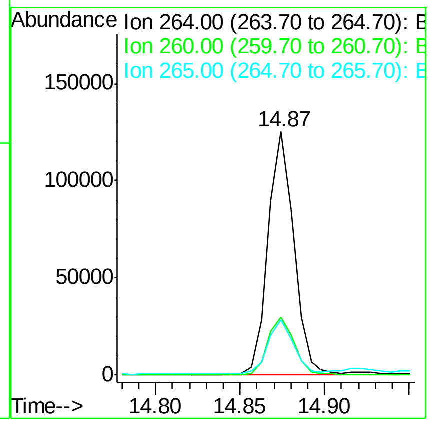


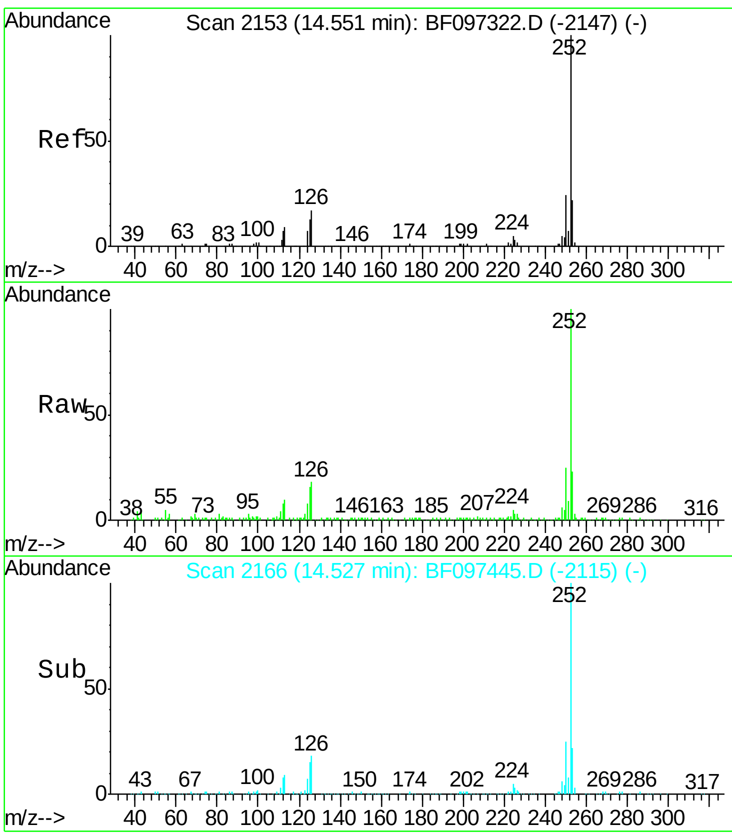
#86
Perylene-d12
Concen: 20.00 ng
RT: 14.87 min   Scan# 2225
Delta R.T.   0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017   22:45

Instrument :
BNA_F
ClientSampleId :
SU-03-080417

Tgt Ion:264 Resp: 133174

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.5	29.3
265	23.0	17.2	25.8

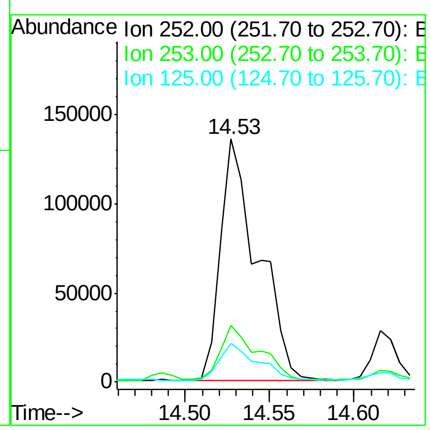




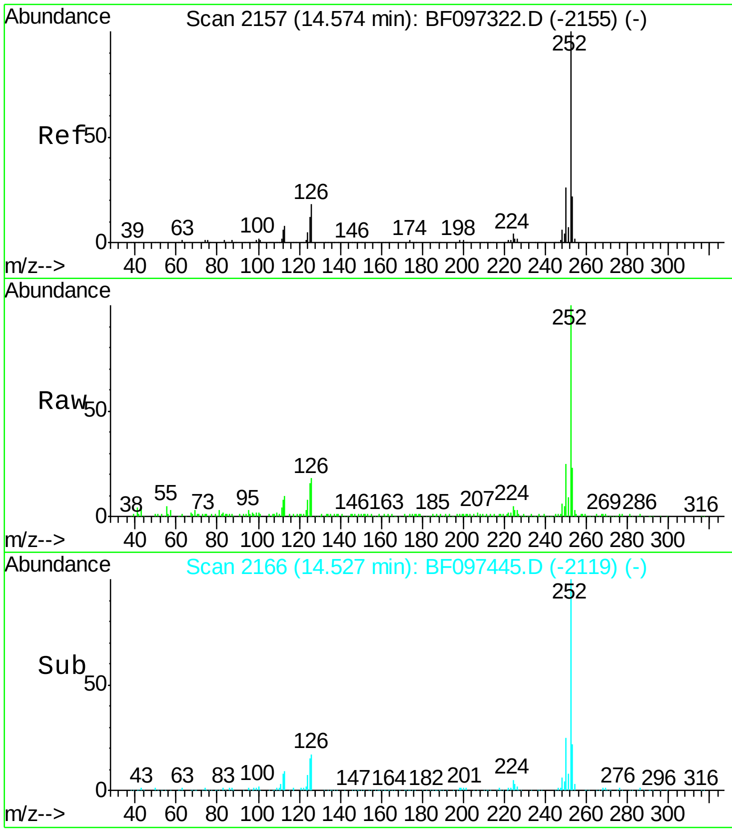
#87
Benzo(b)fluoranthene
Concen: 26.46 ng
RT: 14.53 min   Scan# 2166
Delta R.T.   0.00 min
Lab File: BF097445.D
Acq: 7 Aug 2017   22:45

Tgt Ion:252 Resp: 211822

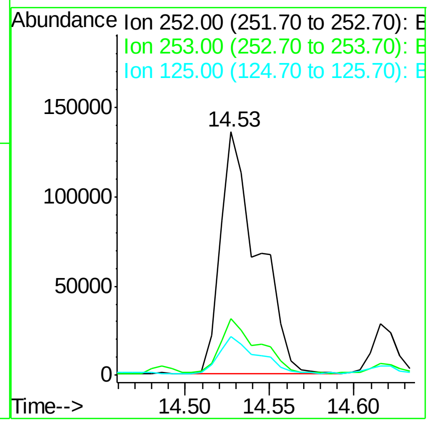
Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	16.0	9.8	14.8#

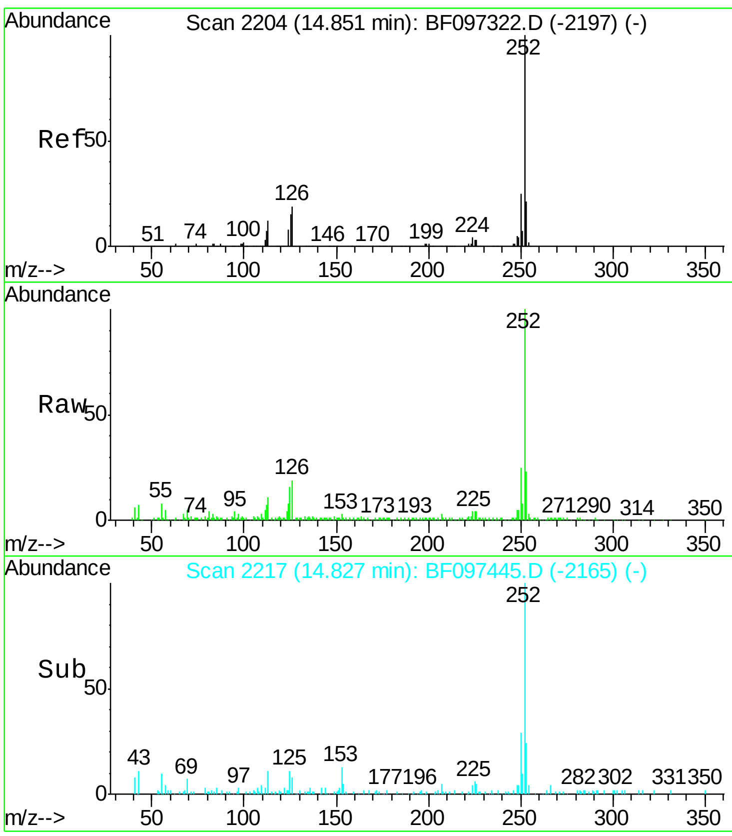


Instrument :
BNA_F
ClientSampleId :
SU-03-080417

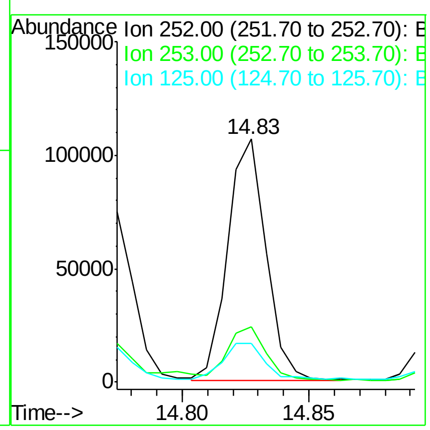


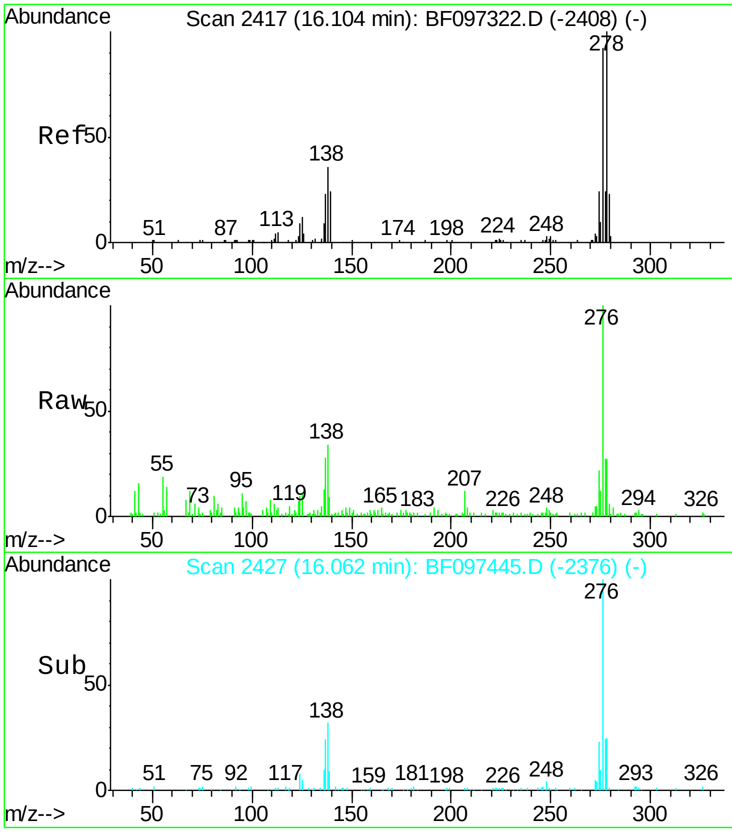

```
#88
Benzo(k)fluoranthene
Concen:    27.77 ng
RT: 14.53 min   Scan# 2166
Delta R.T.    -0.02 min
Lab File:    BF097445.D
Acq:  7 Aug 2017   22:45

Tgt Ion:252 Resp:   211822
Ion  Ratio  Lower  Upper
252  100
253   23.1   18.4   27.6
125   16.0   13.1   19.7
```






```
#89
Benzo(a)pyrene
Concen:    15.29 ng
RT: 14.83 min   Scan# 2217
Delta R.T.    0.01 min
Lab File:    BF097445.D
Acq:  7 Aug 2017   22:45

Tgt Ion:252 Resp:   112048
Ion  Ratio  Lower  Upper
252  100
253   23.0   17.5   26.3
125   15.8   11.0   16.4
```



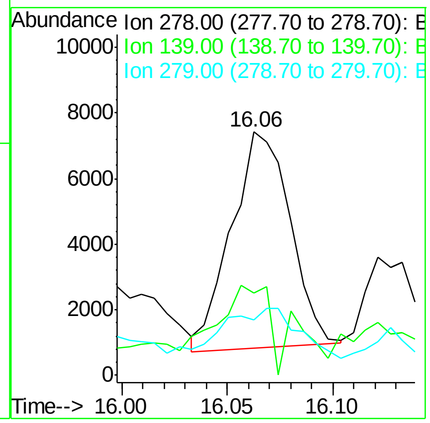


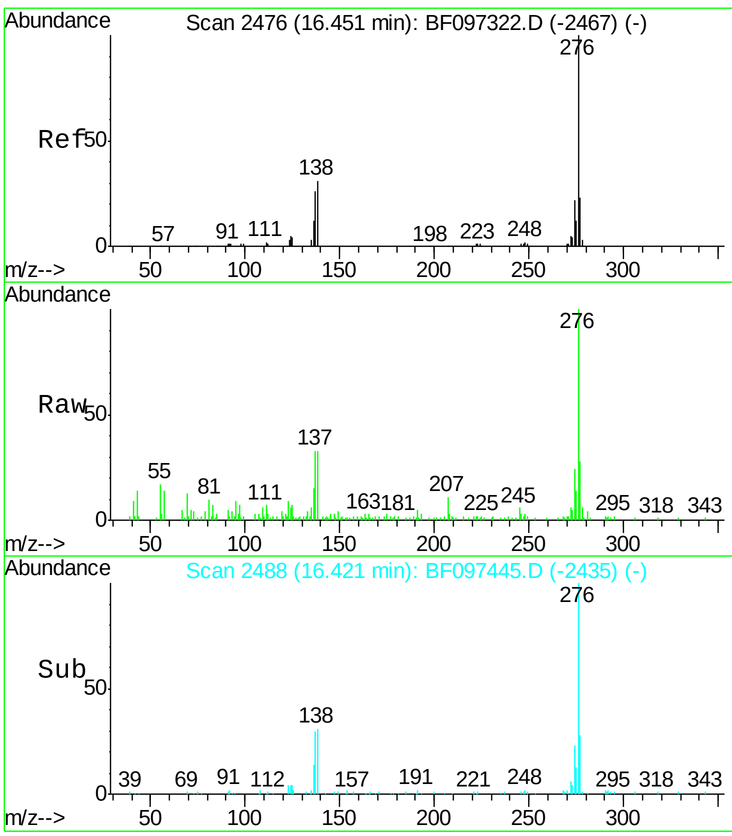
#90
Dibenzo(a,h)anthracene
Concen: 2.11 ng
RT: 16.06 min Scan# 2427
Delta R.T. 0.00 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Instrument :
BNA_F
ClientSampleId :
SU-03-080417

Tgt Ion:278 Resp: 12695

Ion	Ratio	Lower	Upper
278	100		
139	33.7	16.6	24.8#
279	23.0	19.3	28.9





#91
Benzo(g,h,i)perylene
Concen: 8.21 ng
RT: 16.42 min Scan# 2488
Delta R.T. 0.01 min
Lab File: BF097445.D
Acq: 7 Aug 2017 22:45

Tgt Ion:276 Resp: 51755

Ion	Ratio	Lower	Upper
276	100		
277	28.5	18.6	28.0#
138	32.9	25.4	38.0