Data Path : Z:\HPCHEM1\BNA M\DATA\BM122415\
Data File : BM003768.D
Acq On : 24 Dec 2015 07:43
Operator : UM/SJ
Sample : PB87480BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

Quant Time: Dec 24 14:57:31 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM122415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 24 10:08:49 2015
Response via : Initial Calibration

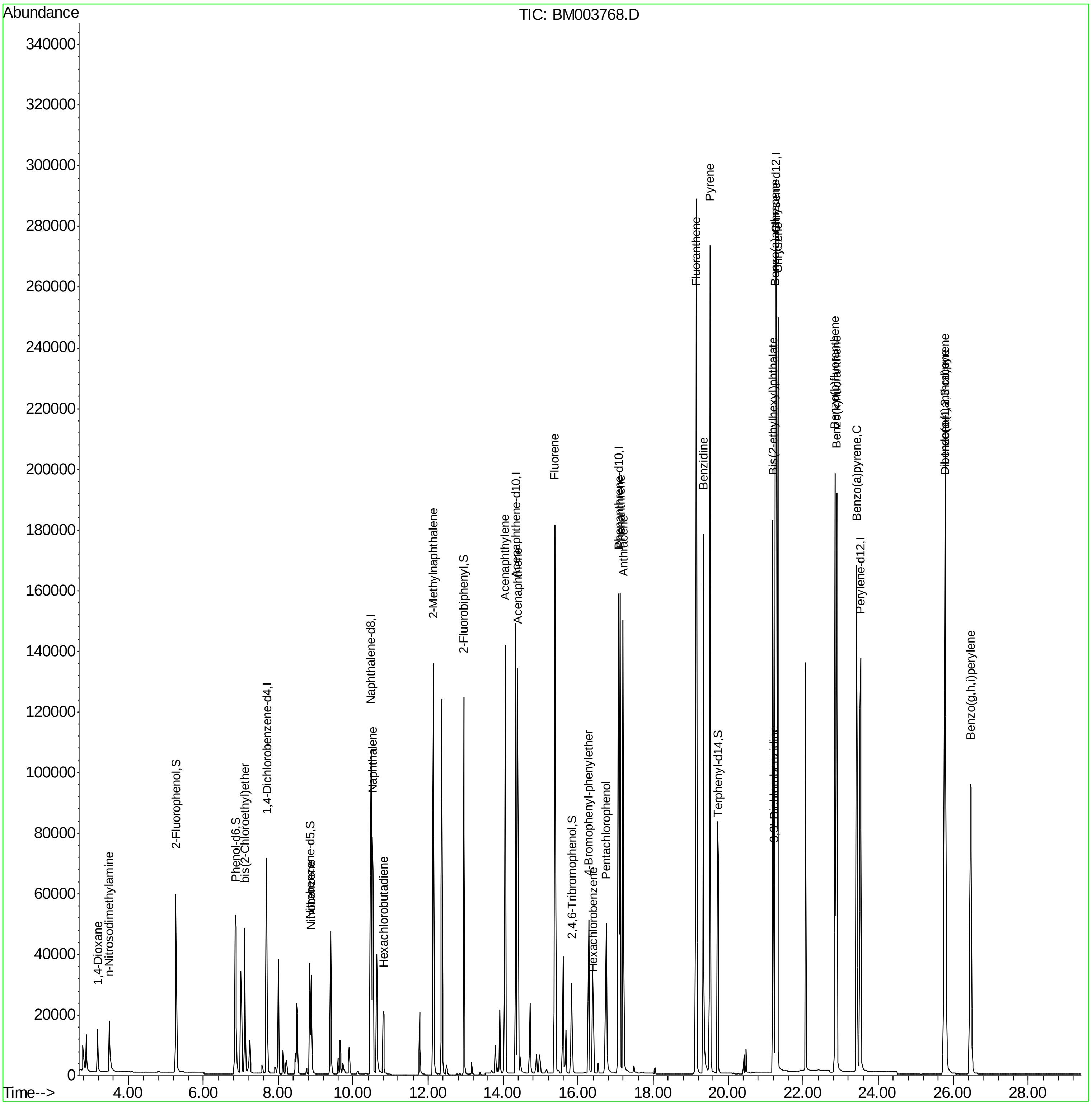
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	36775	5.00	ng		0.00
7) Naphthalene-d8	10.47	136	162962	5.00	ng		0.00
13) Acenaphthene-d10	14.33	164	95525	5.00	ng		0.00
19) Phenanthrene-d10	17.07	188	224871	5.00	ng		0.00
26) Chrysene-d12	21.28	240	221339	5.00	ng		-0.01
35) Perylene-d12	23.53	264	186530	5.00	ng		0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.27	112	56105	6.46	ng		0.00
5) Phenol-d6	6.87	99	74556	7.01	ng		0.00
8) Nitrobenzene-d5	8.84	82	32992	3.82	ng		0.00
14) 2,4,6-Tribromophenol	15.82	330	22705	7.56	ng		-0.02
15) 2-Fluorobiphenyl	12.95	172	116315	3.98	ng		0.00
29) Terphenyl-d14	19.73	244	125663	3.57	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.18	88	12033	3.57	ng		96
3) n-Nitrosodimethylamine	3.49	42	14011	3.58	ng		97
6) bis(2-Chloroethyl)ether	7.11	93	33672	3.56	ng		99
9) Nitrobenzene	8.88	77	35668	3.64	ng		98
10) Naphthalene	10.51	128	133008	3.57	ng		99
11) Hexachlorobutadiene	10.80	225	19324	3.37	ng		100
12) 2-Methylnaphthalene	12.14	142	98822	3.98	ng		97
16) Acenaphthylene	14.05	152	176382	4.06	ng		99
17) Acenaphthene	14.38	154	108071	3.99	ng		98
18) Fluorene	15.38	166	131742	4.13	ng		96
20) 4-Bromophenyl-phenylether	16.28	248	34324	3.64	ng	#	53
21) Hexachlorobenzene	16.41	284	33384	3.74	ng	#	48
22) Pentachlorophenol	16.74	266	38845	8.10	ng	#	83
23) Phenanthrene	17.12	178	218427	3.74	ng		98
24) Anthracene	17.20	178	214179	3.86	ng		96
25) Fluoranthene	19.15	202	268902	3.75	ng		99
27) Benzidine	19.34	184	216605	7.19	ng		96
28) Pyrene	19.51	202	281173	3.82	ng		99
30) Benzo(a)anthracene	21.26	228	304949	4.60	ng	#	85
31) 3,3'-Dichlorobenzidine	21.22	252	81509	3.68	ng	#	81
32) Chrysene	21.32	228	212008	3.48	ng		91
33) Bis(2-ethylhexyl)phthalate	21.20	149	144595	3.06	ng	#	90
34) Indeno(1,2,3-cd)pyrene	25.77	276	231699	4.95	ng		100
36) Benzo(b)fluoranthene	22.85	252	257756	4.23	ng		98
37) Benzo(k)fluoranthene	22.89	252	230257	4.10	ng		98
38) Benzo(a)pyrene	23.42	252	228595	4.38	ng		97
39) Dibenzo(a,h)anthracene	25.79	278	187079	4.57	ng		98
40) Benzo(g,h,i)perylene	26.46	276	192144	4.49	ng		97

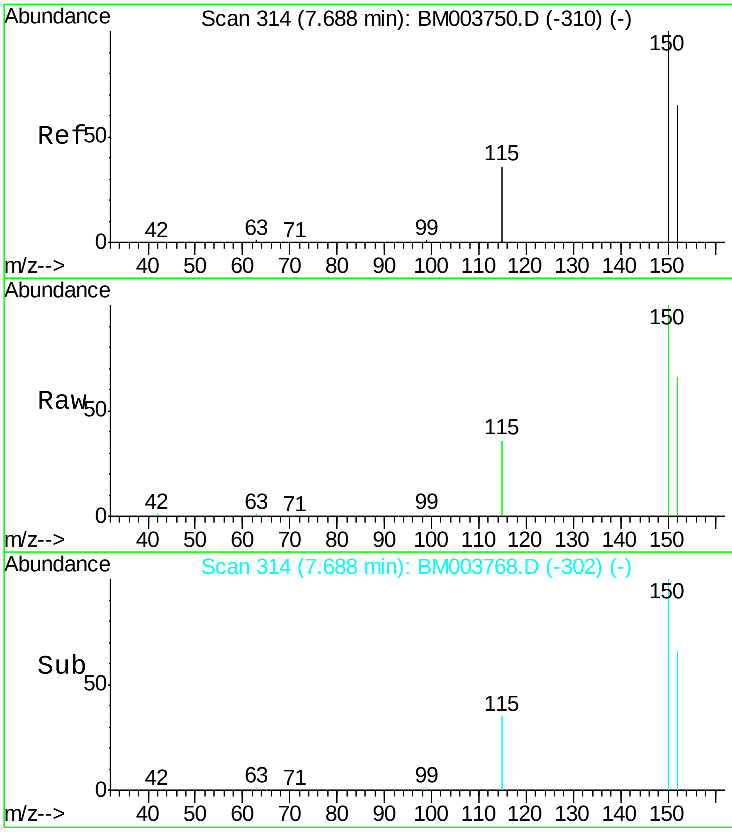
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA M\DATA\BM122415\
Data File : BM003768.D
Acq On   : 24 Dec 2015 07:43
Operator : UM/SJ
Sample   : PB87480BSD
Misc   :
ALS Vial : 23   Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

Quant Time: Dec 24 14:57:31 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM122415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 24 10:08:49 2015
Response via : Initial Calibration



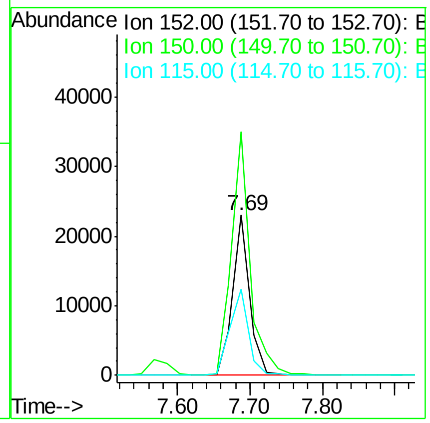


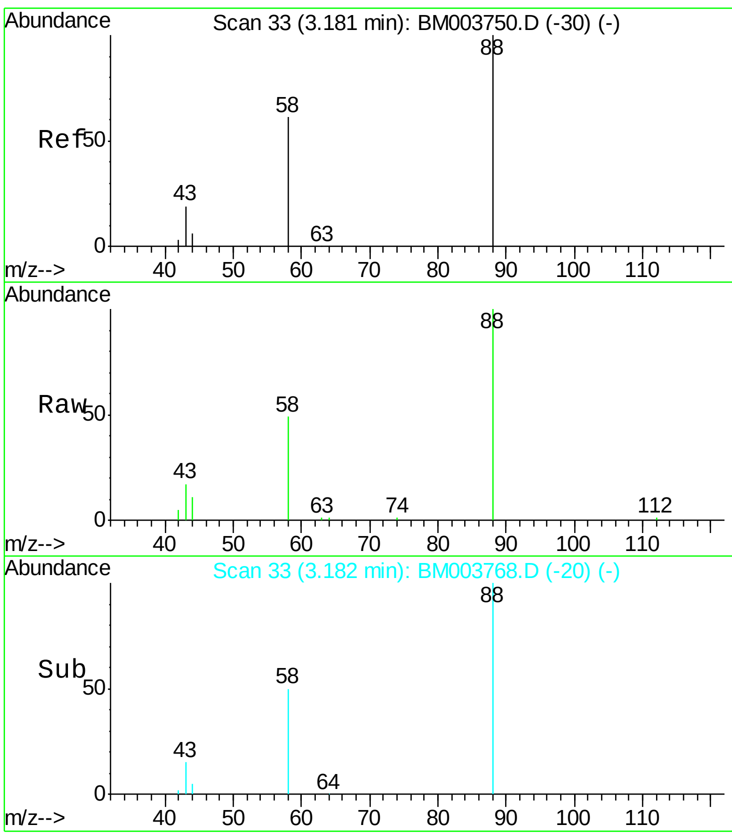
#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.69 min Scan# 314
Delta R.T. 0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

Tgt Ion:152 Resp: 36775

Ion	Ratio	Lower	Upper
152	100		
150	151.9	122.9	184.3
115	54.1	44.4	66.6

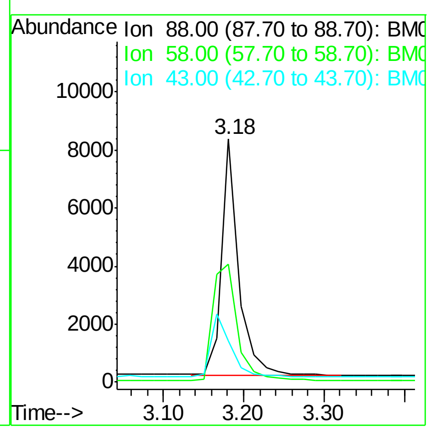


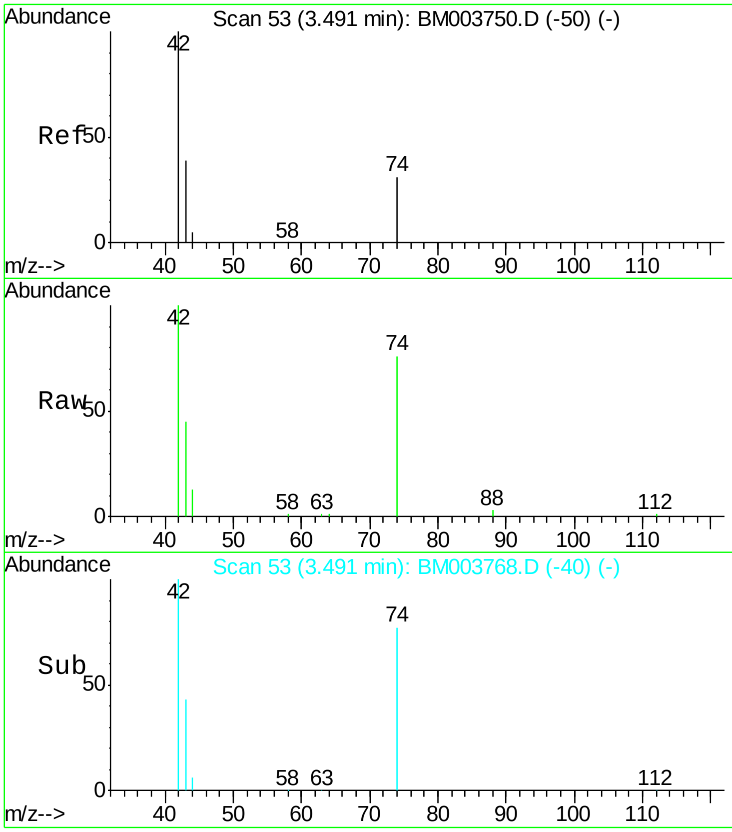


#2
1,4-Dioxane
Concen: 3.57 ng
RT: 3.18 min Scan# 33
Delta R.T. 0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion: 88 Resp: 12033

Ion	Ratio	Lower	Upper
88	100		
58	71.0	53.8	80.6
43	30.7	23.8	35.6



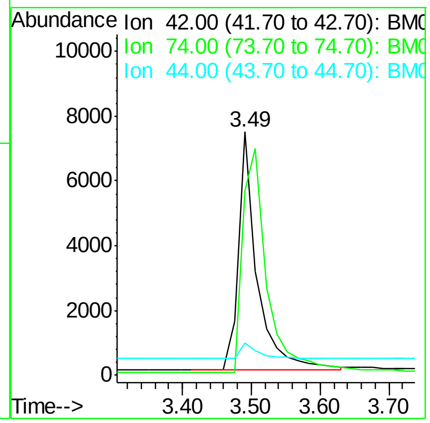


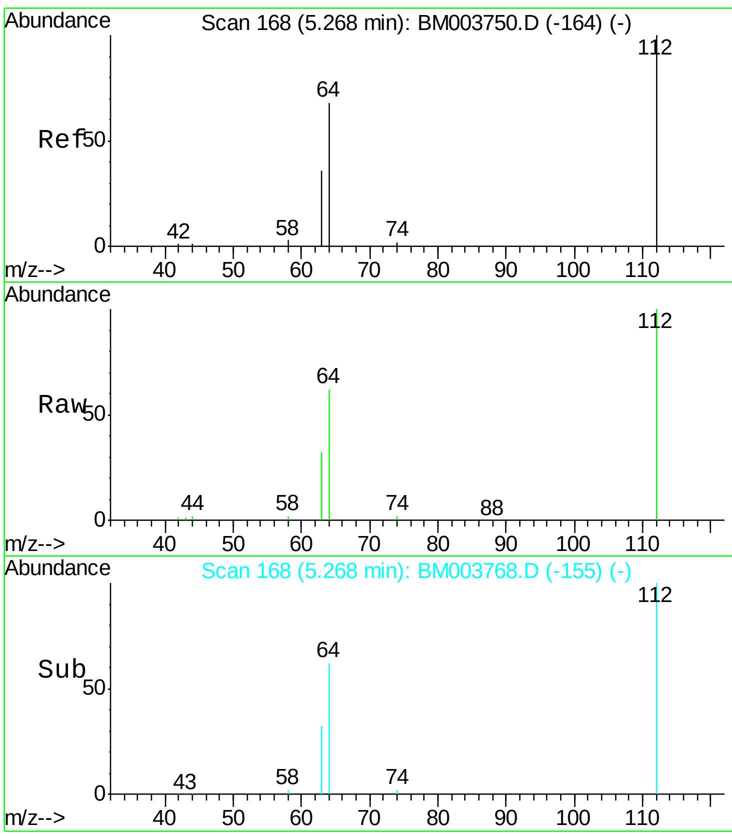
#3
n-Nitrosodimethylamine
Concen: 3.58 ng
RT: 3.49 min Scan# 53
Delta R.T. 0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument : BNA_M
ClientSampleId : PB87480BSD

Tgt Ion: 42 Resp: 14011

Ion	Ratio	Lower	Upper
42	100		
74	122.4	95.0	142.4
44	6.9	5.1	7.7

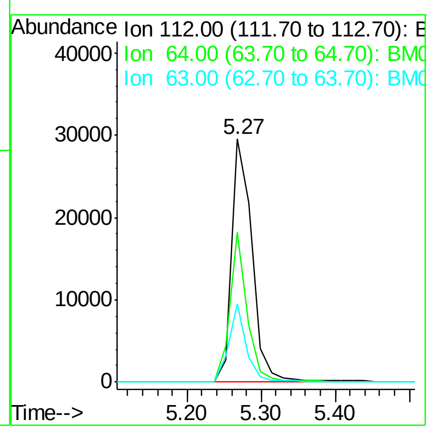


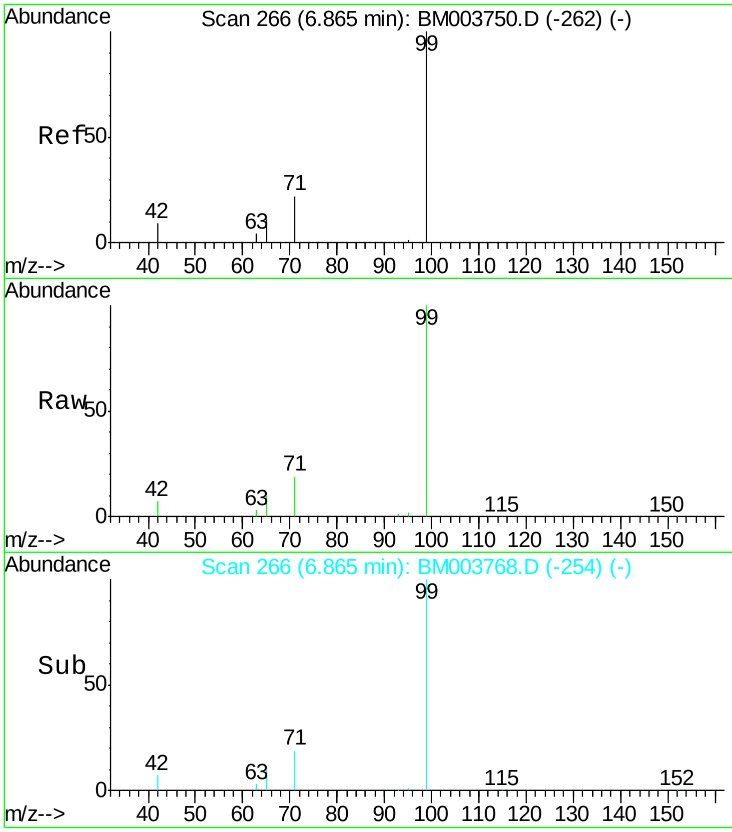


#4
2-Fluorophenol
Concen: 6.46 ng
RT: 5.27 min Scan# 168
Delta R.T. 0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:112 Resp: 56105

Ion	Ratio	Lower	Upper
112	100		
64	52.3	41.8	62.8
63	27.5	22.1	33.1

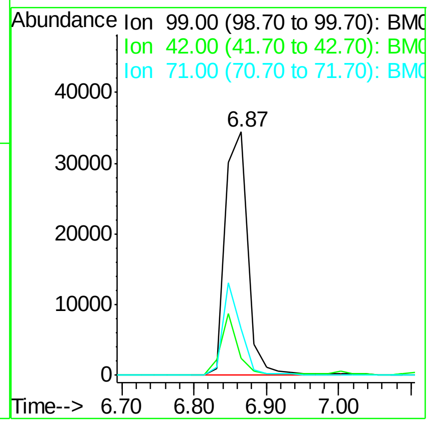


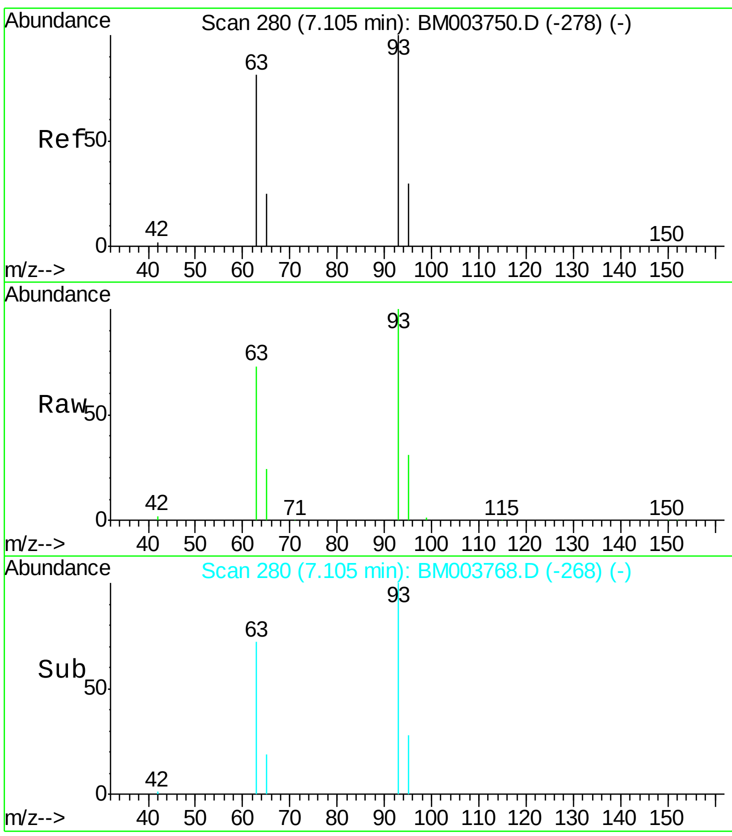


#5
Phenol-d6
Concen: 7.01 ng
RT: 6.87 min Scan# 266
Delta R.T. 0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

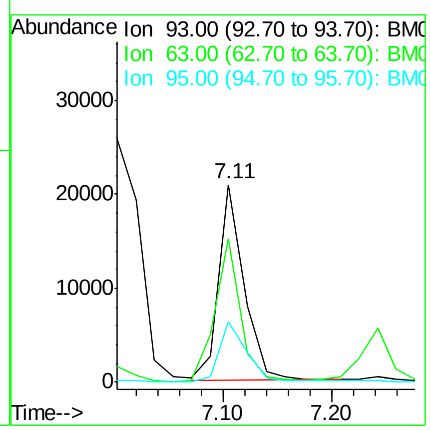
Tgt Ion: 99	Resp:		74556
Ion	Ratio	Lower	Upper
99	100		
42	19.1	16.2	24.2
71	30.6	24.4	36.6



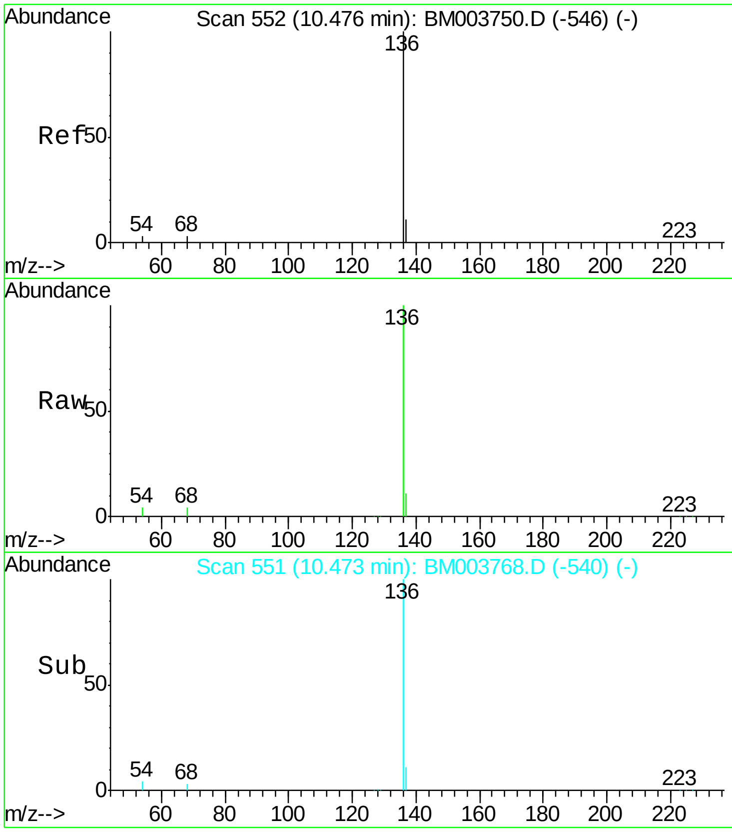


#6
bis(2-Chloroethyl)ether
Concen: 3.56 ng
RT: 7.11 min Scan# 280
Delta R.T. 0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion: 93	Resp:		33672
Ion	Ratio	Lower	Upper
93	100		
63	73.4	58.3	87.5
95	32.9	25.8	38.8



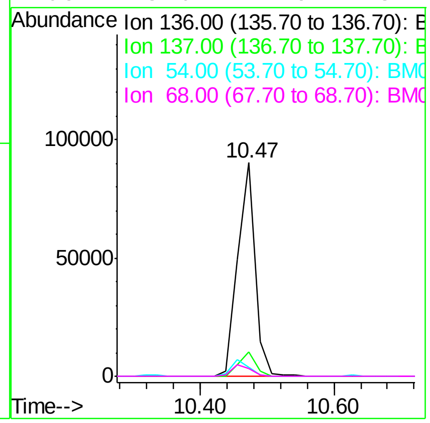
Instrument :
BNA_M
ClientSampleId :
PB87480BSD

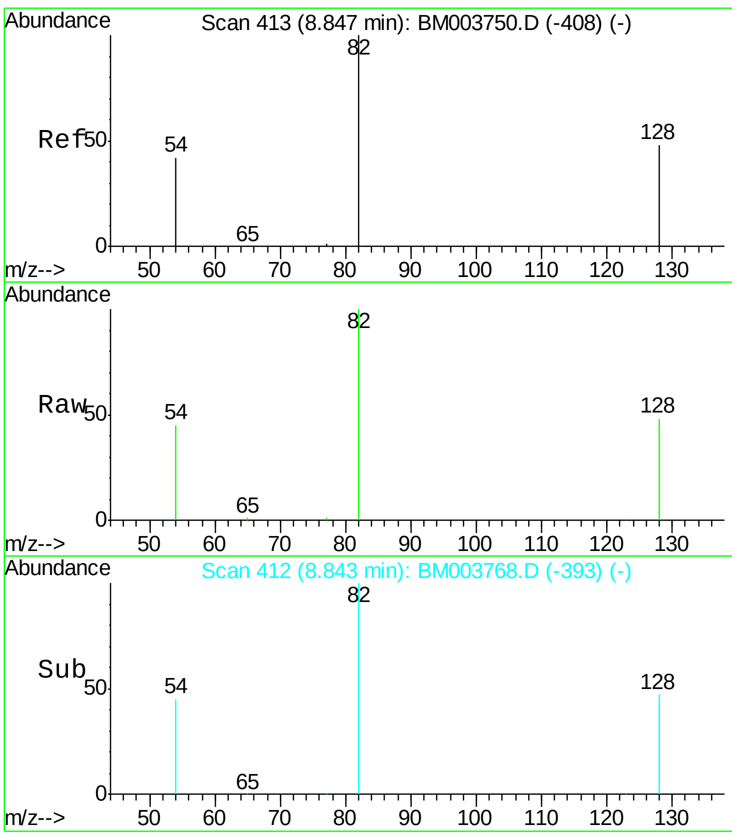


#7
Naphthalene-d8
Concen: 5.00 ng
RT: 10.47 min Scan# 551
Delta R.T. -0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:136 Resp: 162962

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.2	13.8
54	4.1	2.8	4.2
68	3.6	2.5	3.7

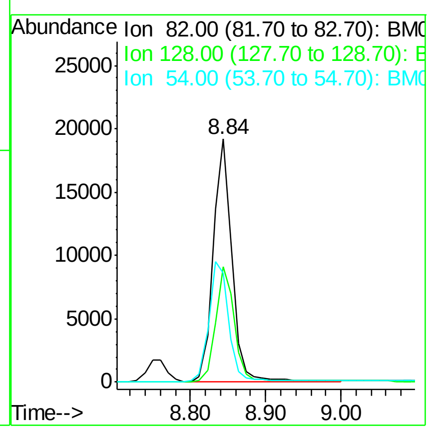


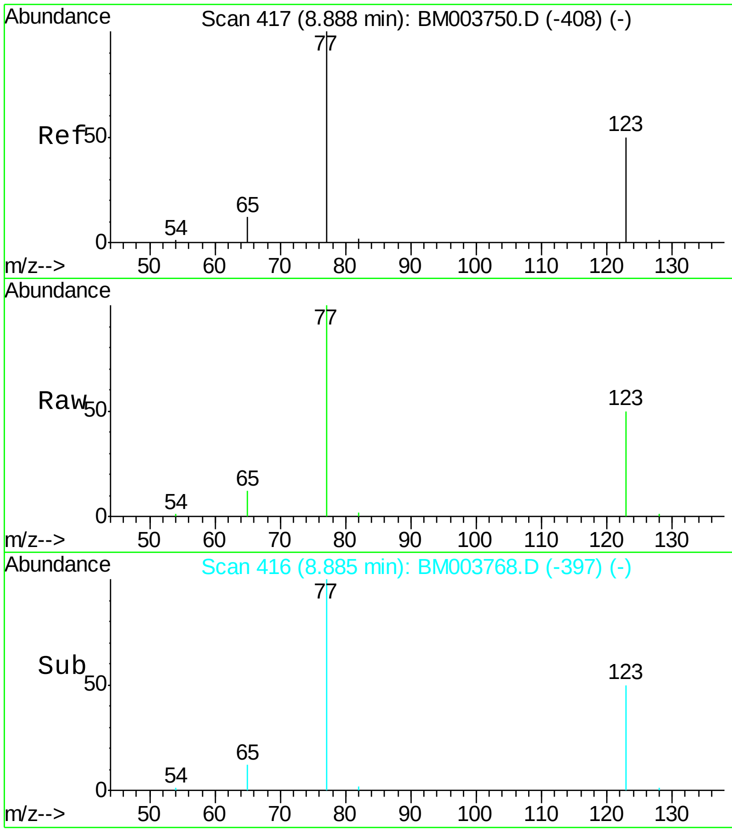


#8
Nitrobenzene-d5
Concen: 3.82 ng
RT: 8.84 min Scan# 412
Delta R.T. -0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion: 82 Resp: 32992

Ion	Ratio	Lower	Upper
82	100		
128	47.5	39.1	58.7
54	44.9	34.8	52.2



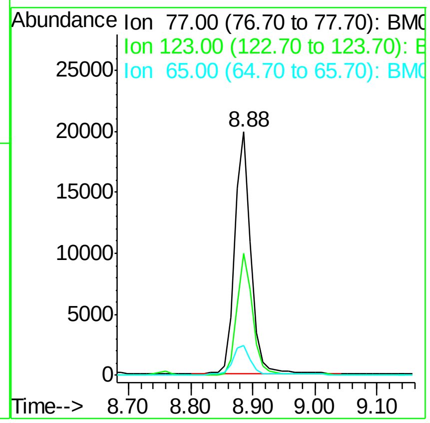


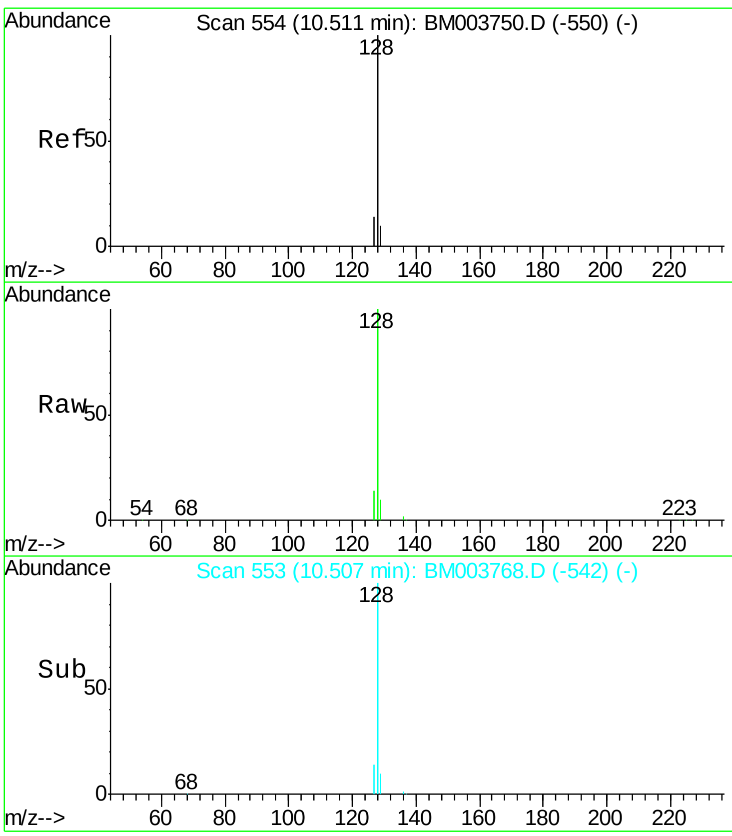
#9
Nitrobenzene
Concen: 3.64 ng
RT: 8.88 min Scan# 416
Delta R.T.   -0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

Tgt Ion: 77 Resp: 35668

Ion	Ratio	Lower	Upper
77	100		
123	49.5	38.6	57.8
65	12.8	9.9	14.9

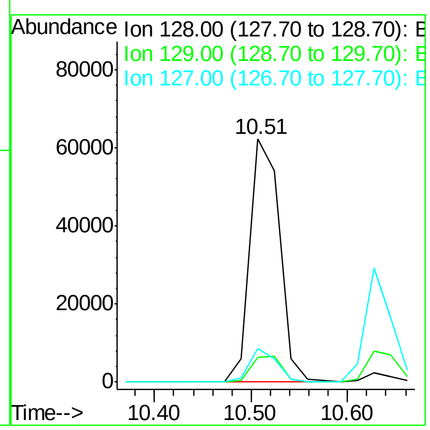


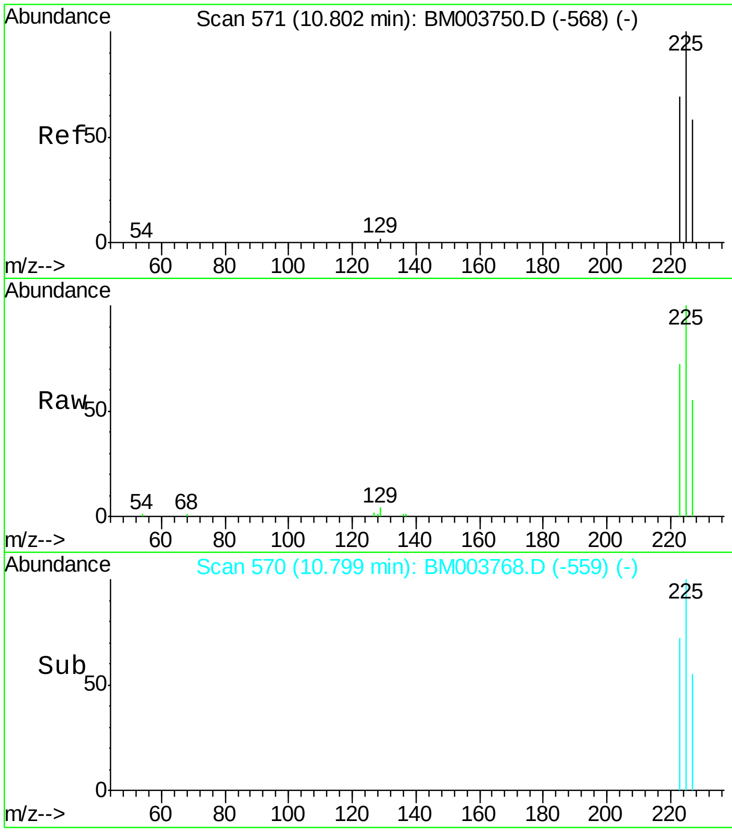


#10
Naphthalene
Concen: 3.57 ng
RT: 10.51 min Scan# 553
Delta R.T.   -0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:128 Resp: 133008

Ion	Ratio	Lower	Upper
128	100		
129	10.1	8.5	12.7
127	14.0	11.0	16.4



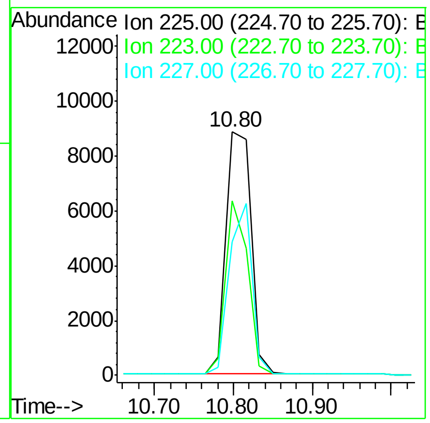


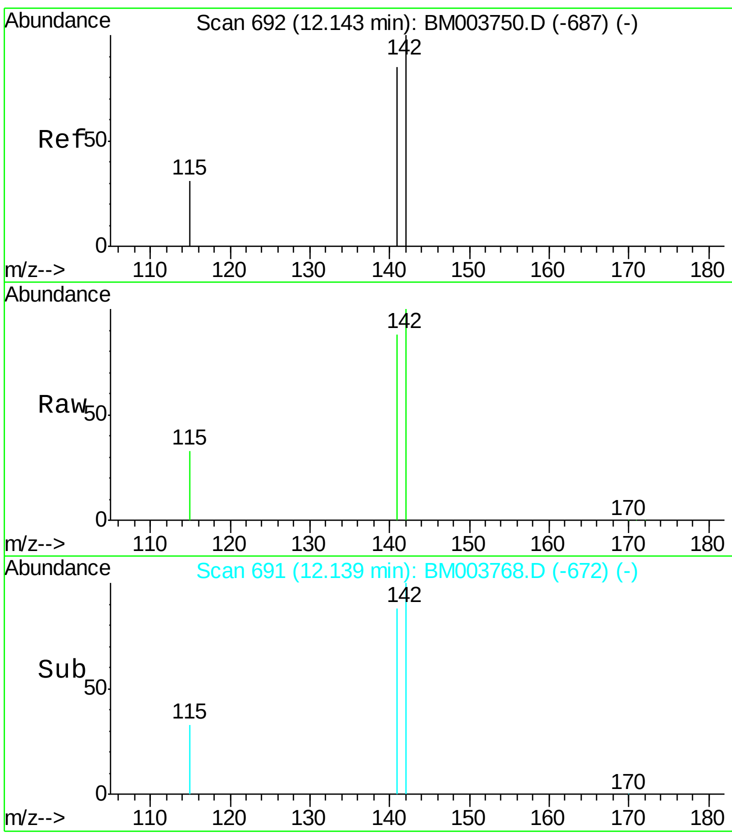
#11
Hexachlorobutadiene
Concen: 3.37 ng
RT: 10.80 min Scan# 570
Delta R.T. -0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument : BNA_M
ClientSampleId : PB87480BSD

Tgt Ion:225 Resp: 19324

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.9	76.3
227	64.0	51.2	76.8

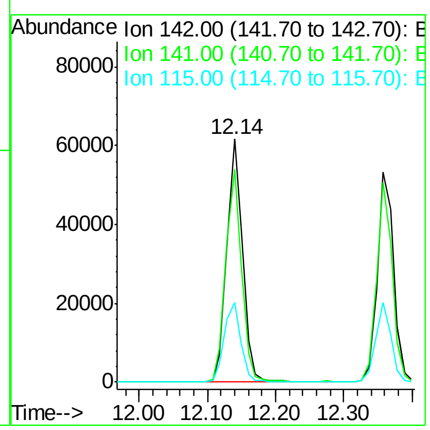


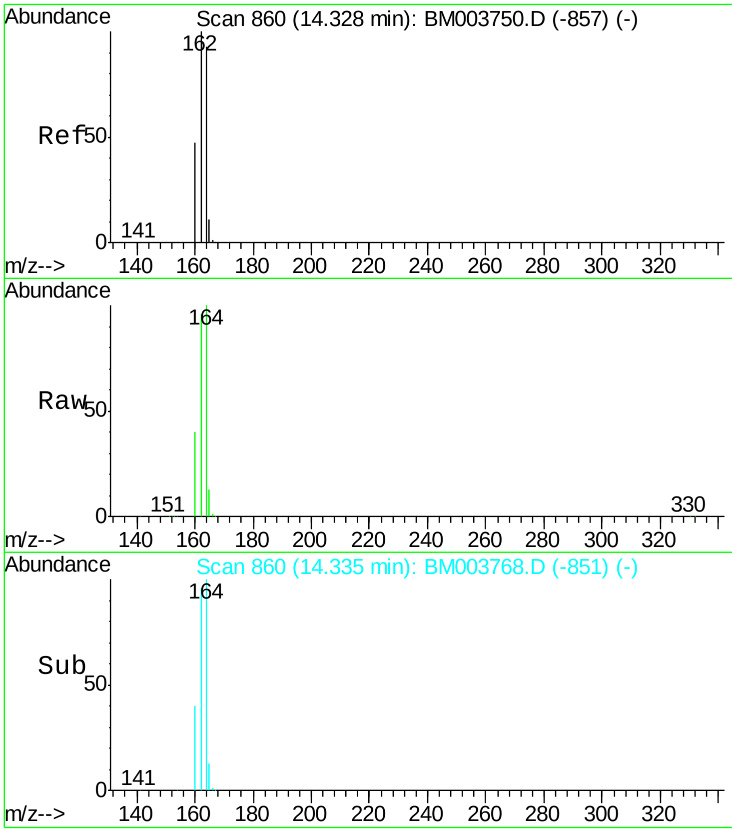


#12
2-Methylnaphthalene
Concen: 3.98 ng
RT: 12.14 min Scan# 691
Delta R.T. -0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:142 Resp: 98822

Ion	Ratio	Lower	Upper
142	100		
141	87.5	67.8	101.8
115	33.0	25.3	37.9



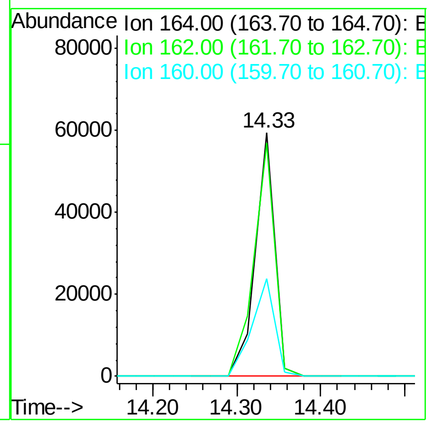


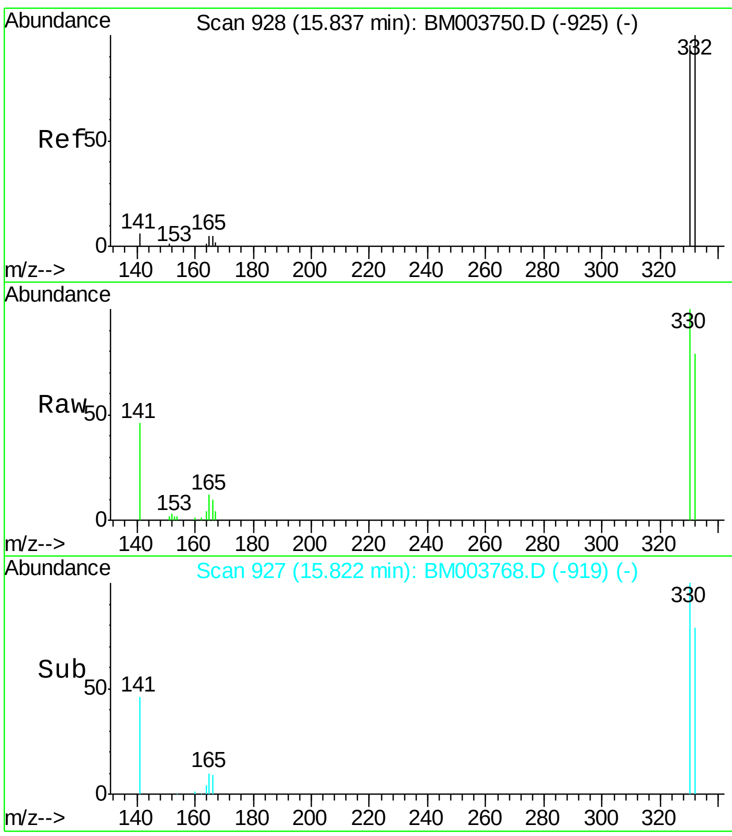
#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.33 min Scan# 860
Delta R.T. 0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

Tgt Ion:164 Resp: 95525

Ion	Ratio	Lower	Upper
164	100		
162	95.8	86.0	129.0
160	40.2	40.3	60.5#

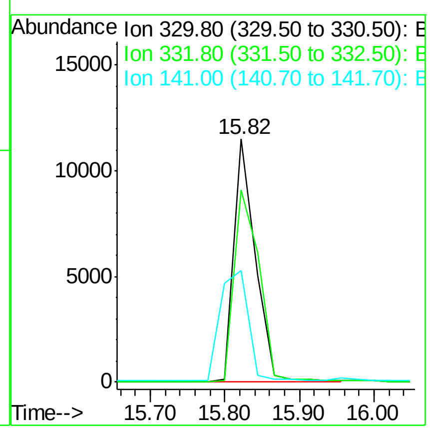


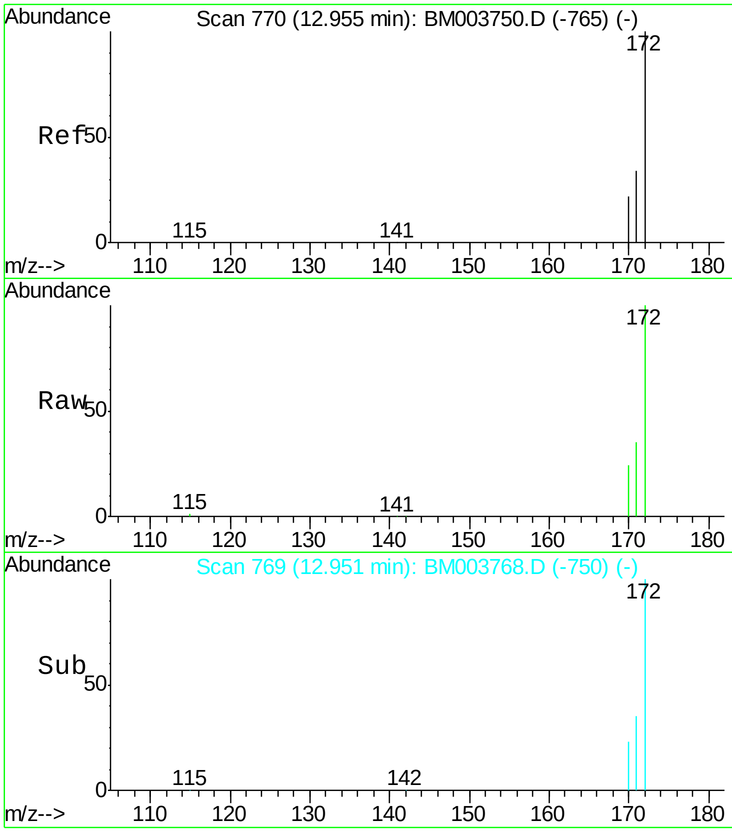


#14
2,4,6-Tribromophenol
Concen: 7.56 ng
RT: 15.82 min Scan# 927
Delta R.T. -0.02 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:330 Resp: 22705

Ion	Ratio	Lower	Upper
330	100		
332	92.3	79.0	118.4
141	60.2	0.0	0.0#



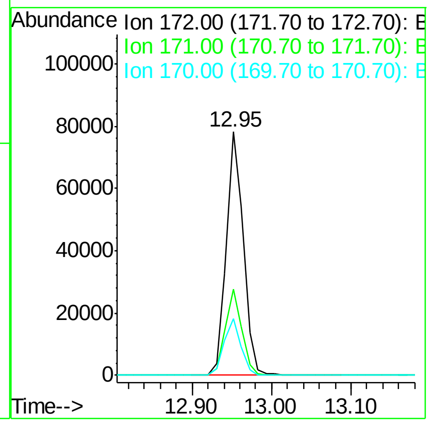


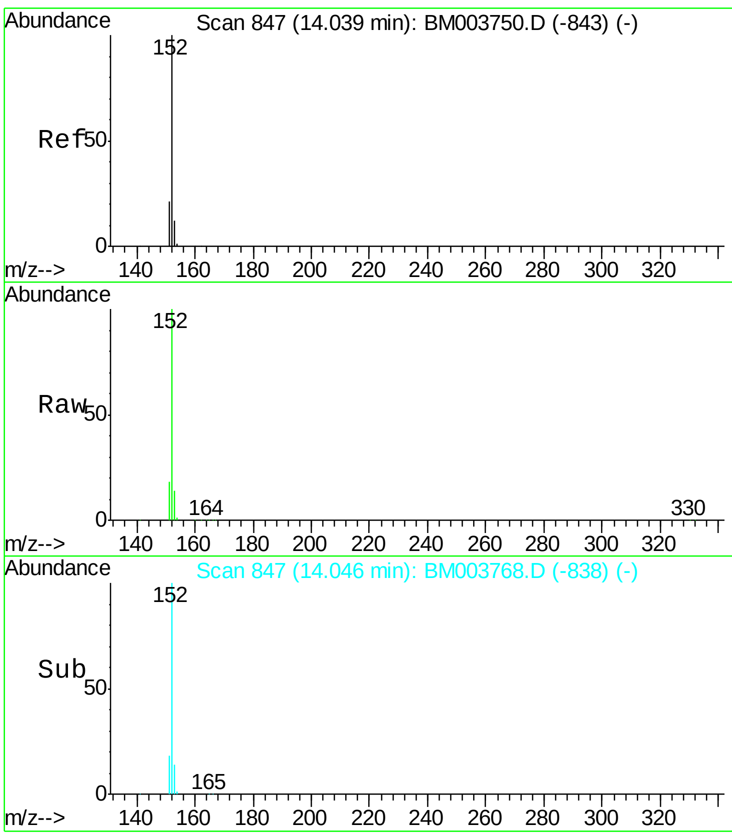
#15
2-Fluorobiphenyl
Concen: 3.98 ng
RT: 12.95 min Scan# 769
Delta R.T. -0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

Tgt Ion:172 Resp: 116315

Ion	Ratio	Lower	Upper
172	100		
171	35.2	27.0	40.6
170	23.5	17.9	26.9

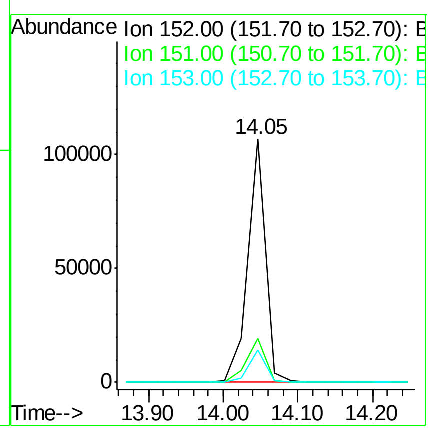




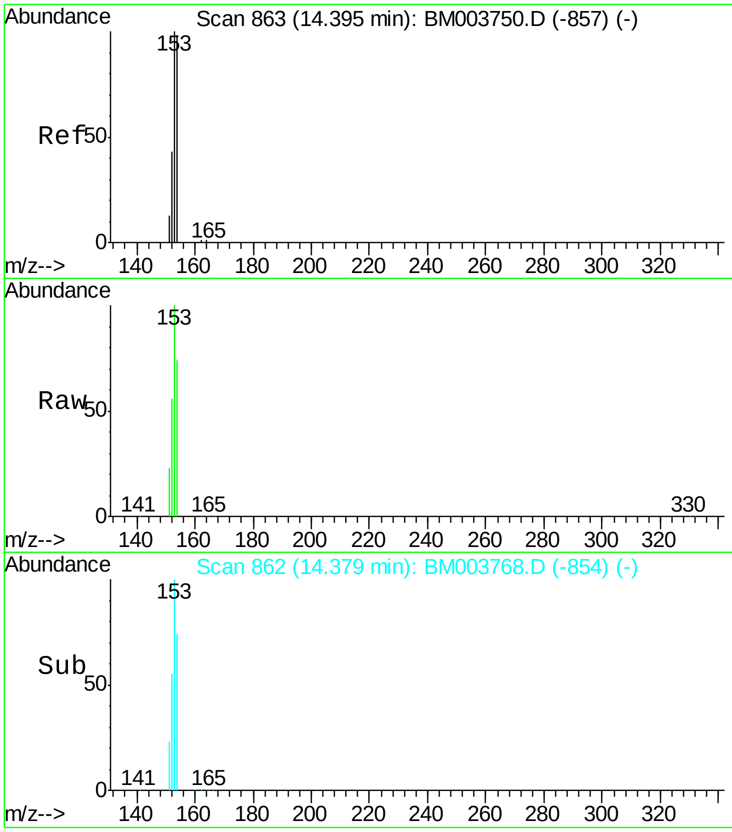
#16
Acenaphthylene
Concen: 4.06 ng
RT: 14.05 min Scan# 847
Delta R.T. 0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:152 Resp: 176382

Ion	Ratio	Lower	Upper
152	100		
151	19.0	15.8	23.8
153	13.1	10.2	15.4



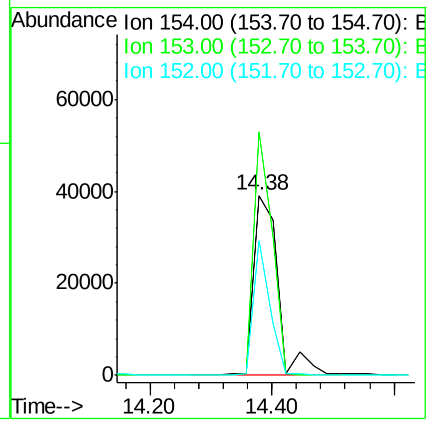
Instrument : BNA_M
ClientSampleId : PB87480BSD

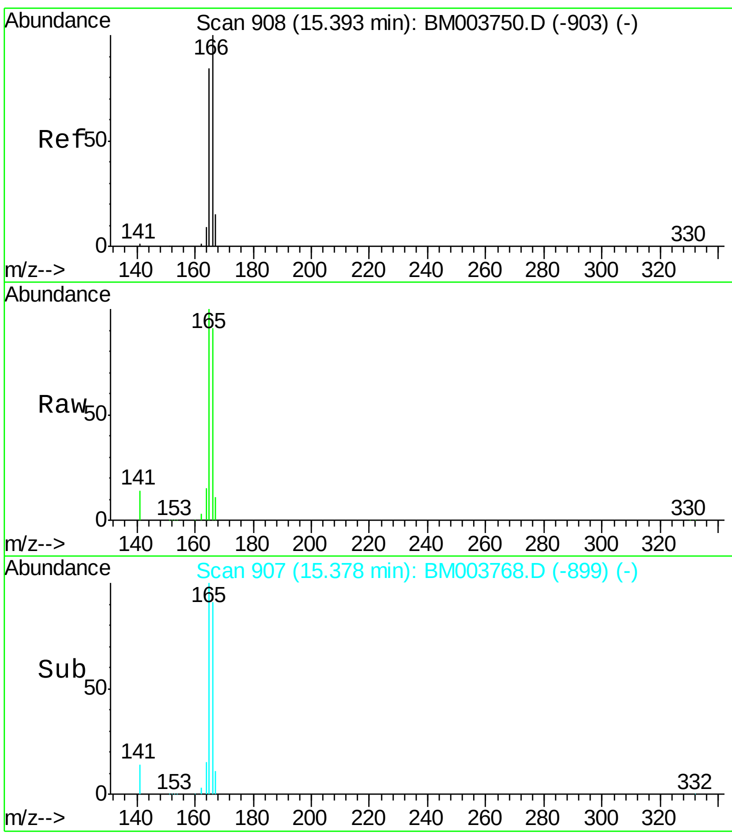


#17
Acenaphthene
Concen: 3.99 ng
RT: 14.38 min Scan# 862
Delta R.T. -0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:154 Resp: 108071

Ion	Ratio	Lower	Upper
154	100		
153	103.3	85.4	128.2
152	50.7	40.6	60.8

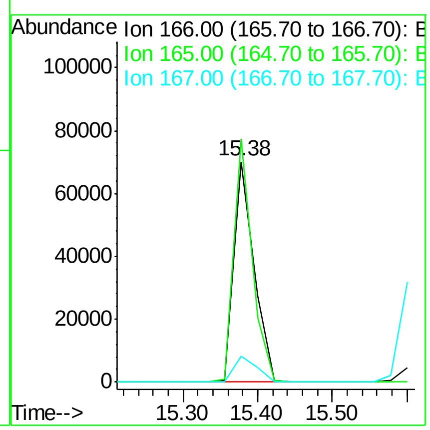


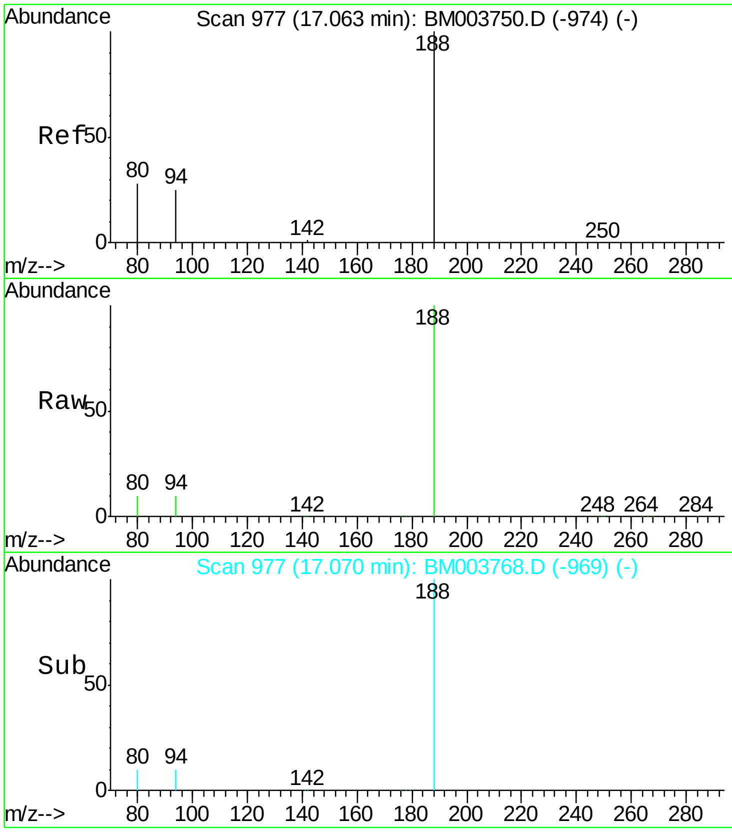


#18
Fluorene
Concen: 4.13 ng
RT: 15.38 min Scan# 907
Delta R.T. -0.02 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:166 Resp: 131742

Ion	Ratio	Lower	Upper
166	100		
165	100.6	77.2	115.8
167	13.1	11.0	16.6



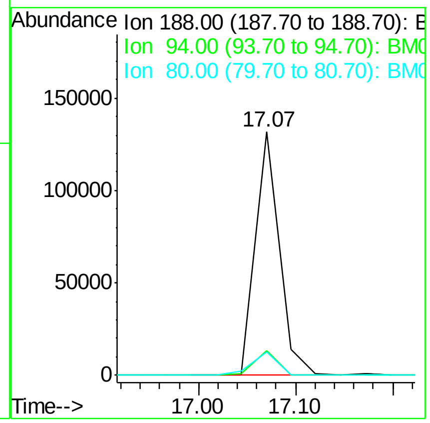


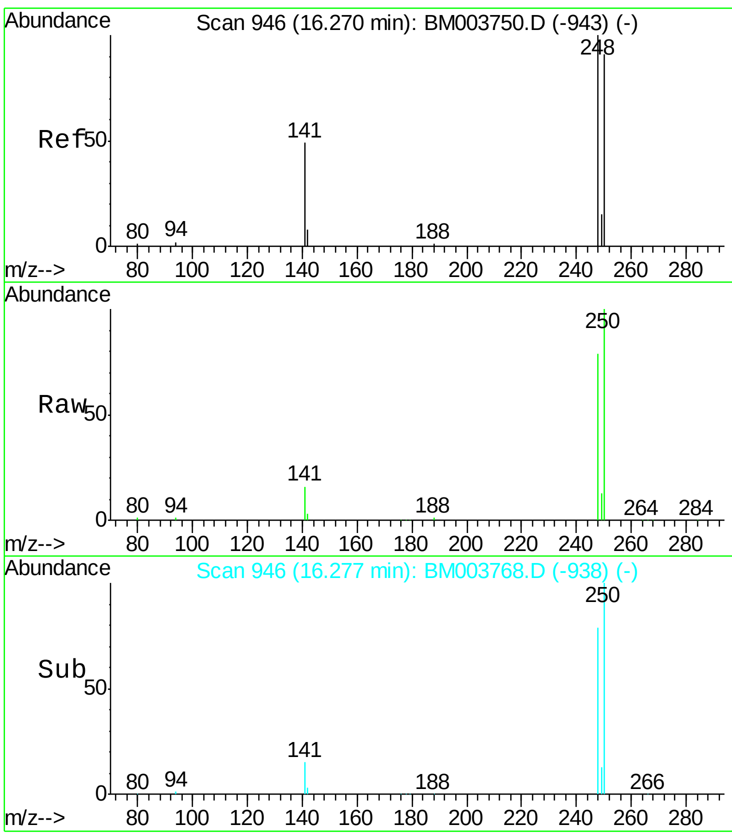
#19
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.07 min Scan# 977
Delta R.T. 0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

Tgt Ion:188 Resp: 224871

Ion	Ratio	Lower	Upper
188	100		
94	10.1	20.3	30.5#
80	9.7	22.2	33.4#

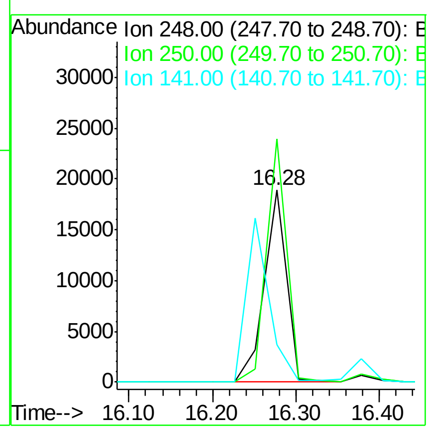


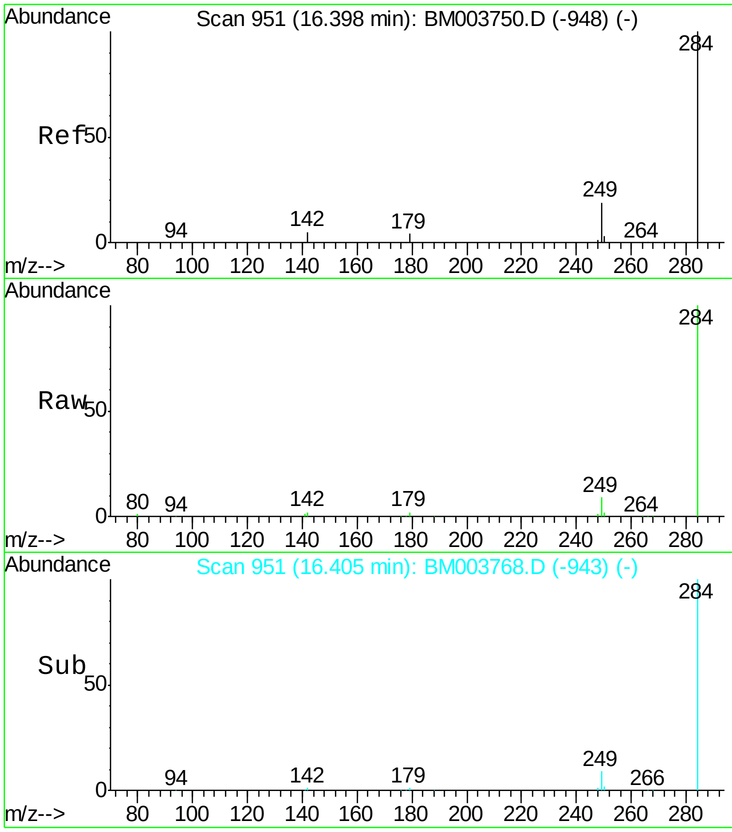


#20
4-Bromophenyl-phenylether
Concen: 3.64 ng
RT: 16.28 min Scan# 946
Delta R.T. 0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:248 Resp: 34324

Ion	Ratio	Lower	Upper
248	100		
250	114.8	75.0	112.4#
141	0.0	53.0	79.4#



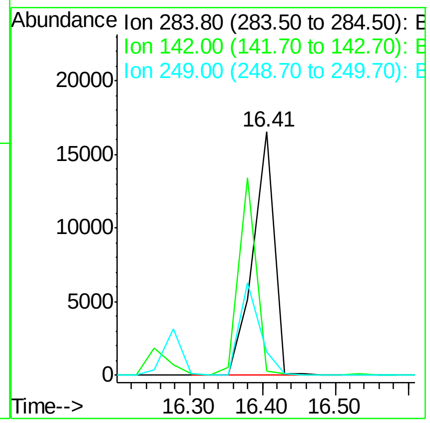


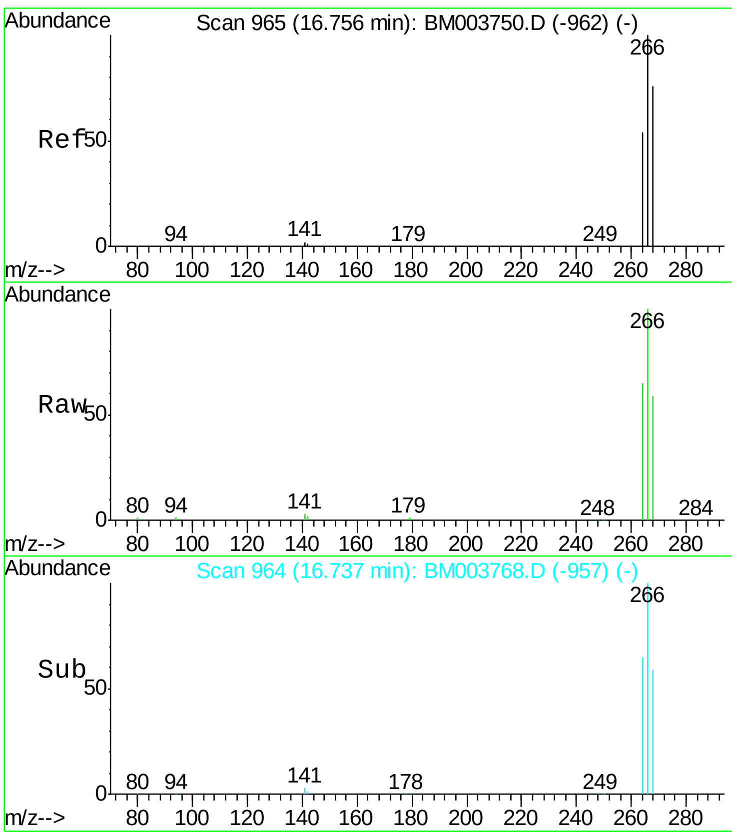
#21
Hexachlorobenzene
Concen: 3.74 ng
RT: 16.41 min Scan# 951
Delta R.T. 0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

Tgt Ion:284 Resp: 33384

Ion	Ratio	Lower	Upper
284	100		
142	0.0	0.0	0.0
249	0.0	21.5	32.3#

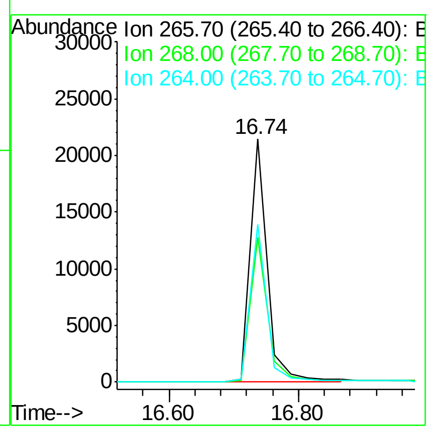


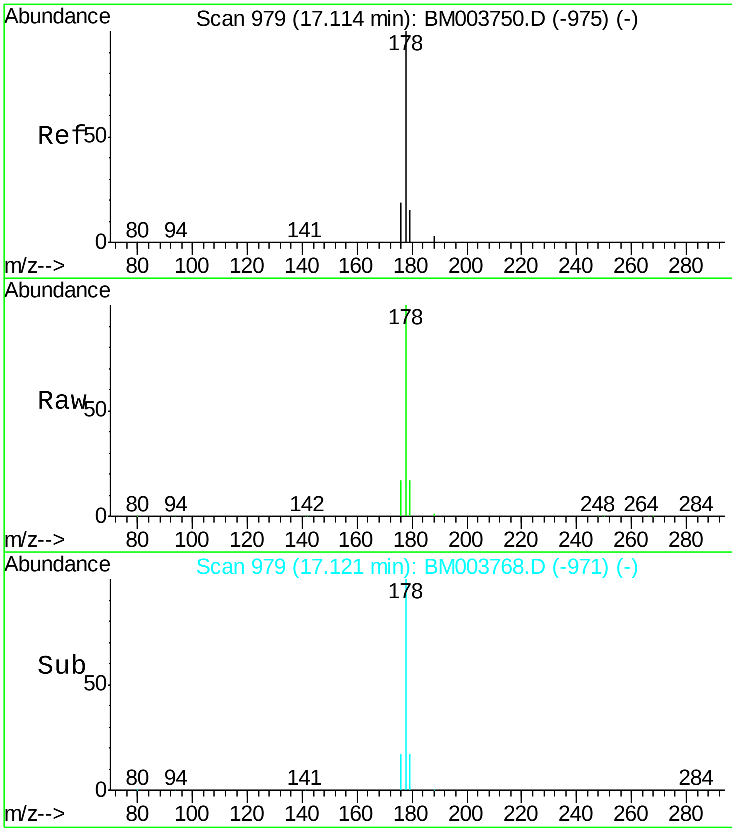


#22
Pentachlorophenol
Concen: 8.10 ng
RT: 16.74 min Scan# 964
Delta R.T. -0.02 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:266 Resp: 38845

Ion	Ratio	Lower	Upper
266	100		
268	59.4	62.7	94.1#
264	65.1	45.7	68.5



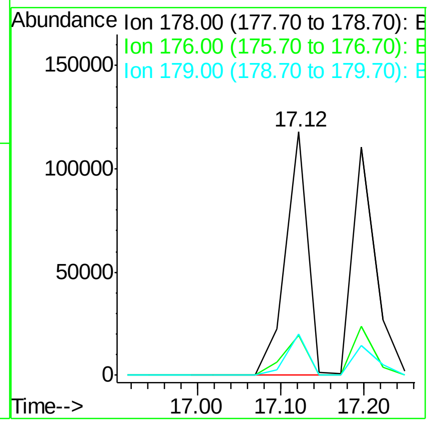


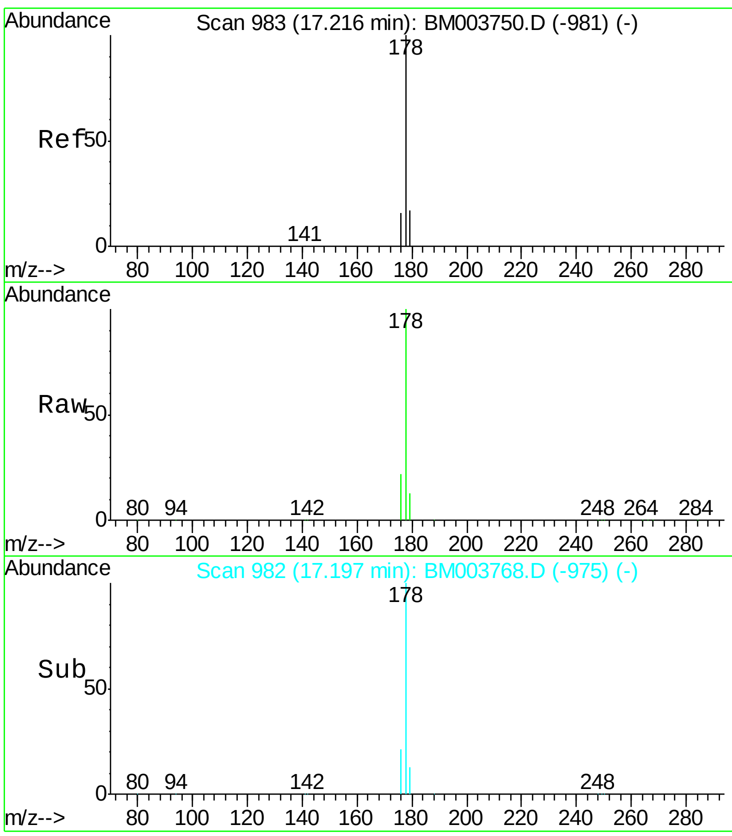
#23
Phenanthrene
Concen: 3.74 ng
RT: 17.12 min Scan# 979
Delta R.T. 0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

Tgt Ion:178 Resp: 218427

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.0
179	16.2	12.2	18.4

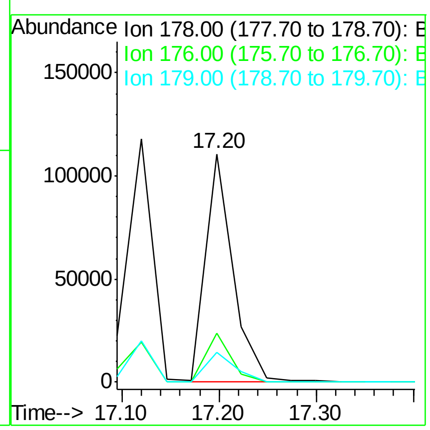


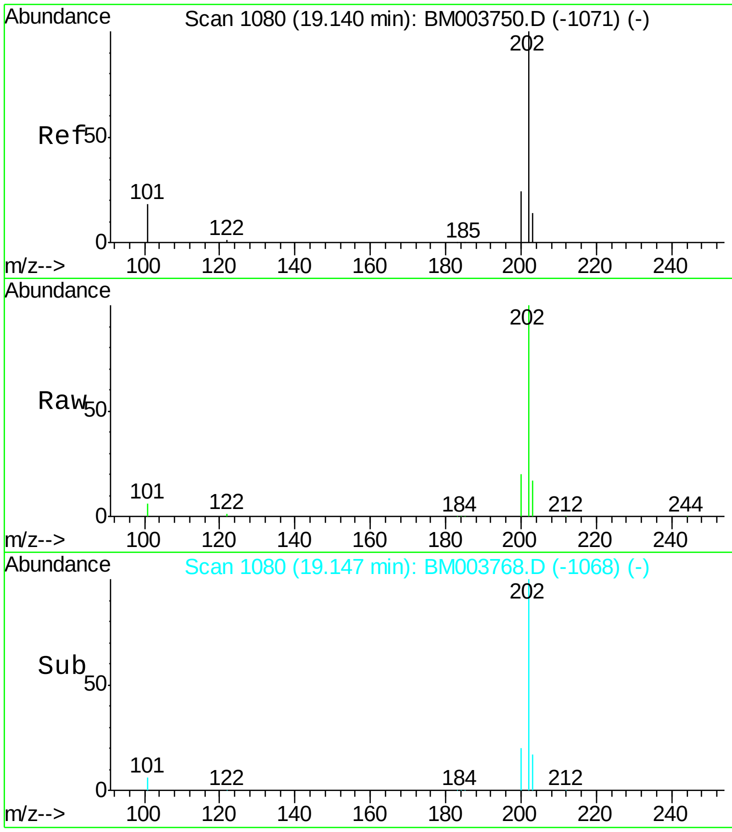


#24
Anthracene
Concen: 3.86 ng
RT: 17.20 min Scan# 982
Delta R.T. -0.02 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:178 Resp: 214179

Ion	Ratio	Lower	Upper
178	100		
176	20.0	14.6	21.8
179	14.2	12.6	19.0



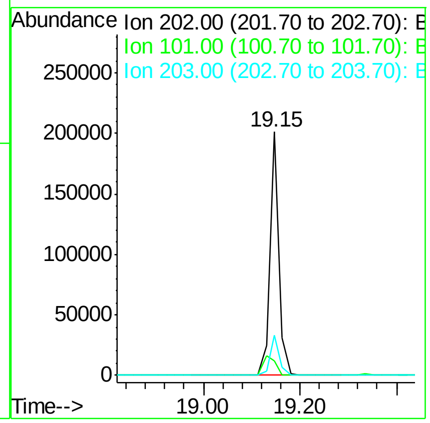


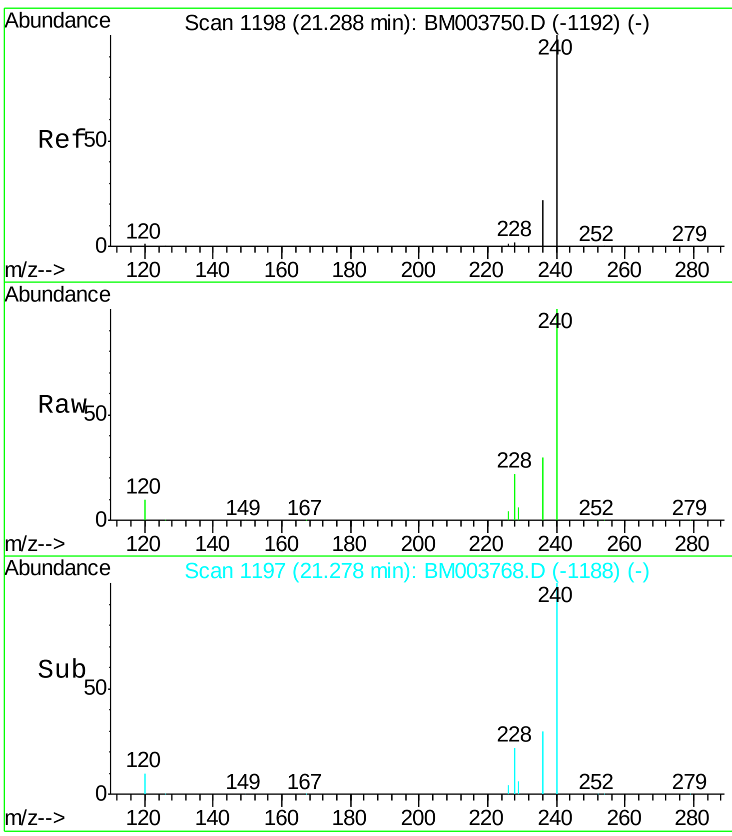
#25
Fluoranthene
Concen: 3.75 ng
RT: 19.15 min Scan# 1080
Delta R.T. 0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

Tgt Ion:202 Resp: 268902

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.7	14.5
203	17.2	13.8	20.8

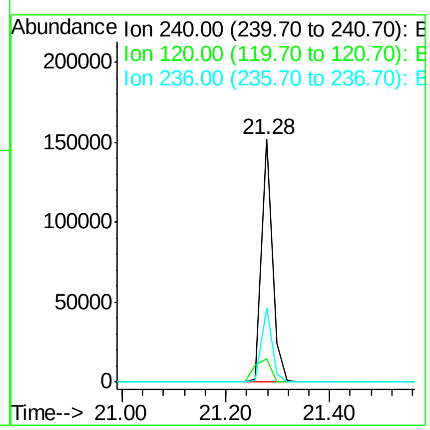


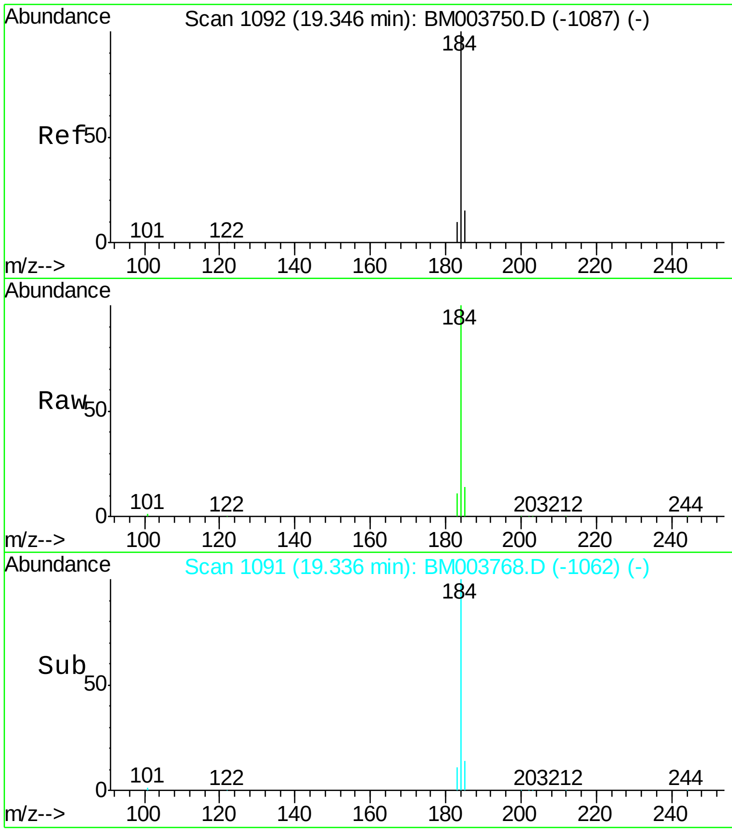


#26
Chrysene-d12
Concen: 5.00 ng
RT: 21.28 min Scan# 1197
Delta R.T. -0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:240 Resp: 221339

Ion	Ratio	Lower	Upper
240	100		
120	9.8	0.9	1.3#
236	30.4	17.3	25.9#



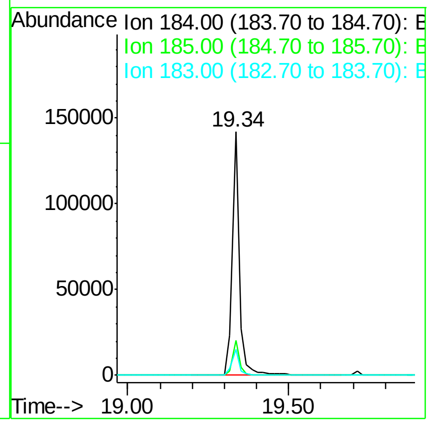


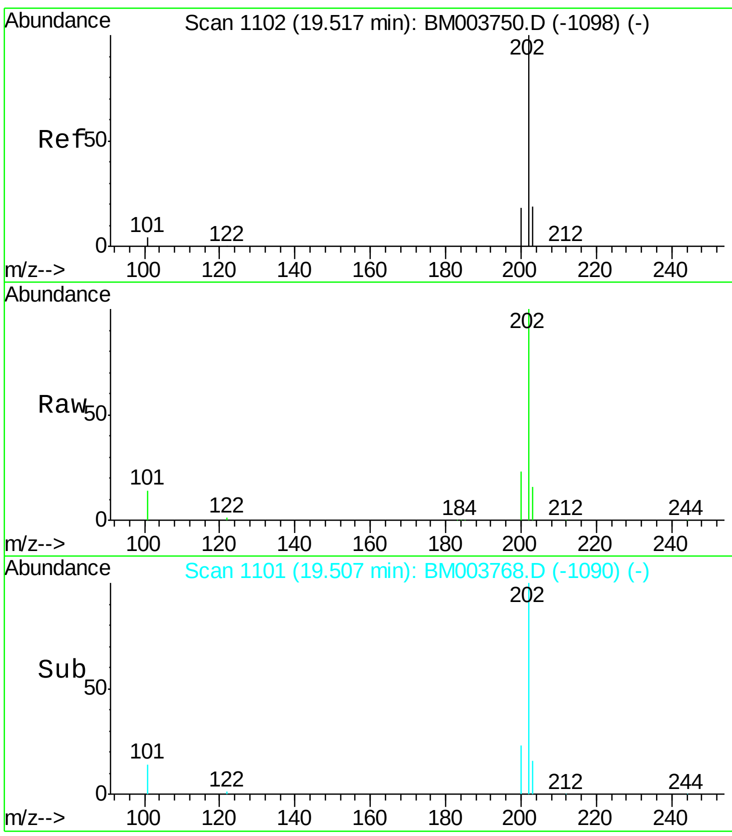
#27
Benzidine
Concen: 7.19 ng
RT: 19.34 min Scan# 1091
Delta R.T. -0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

Tgt Ion:184 Resp: 216605

Ion	Ratio	Lower	Upper
184	100		
185	14.1	13.2	19.8
183	10.7	9.0	13.6

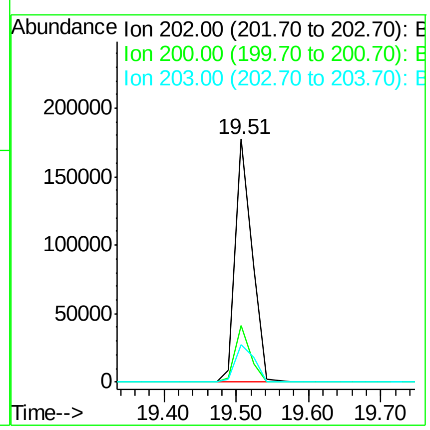




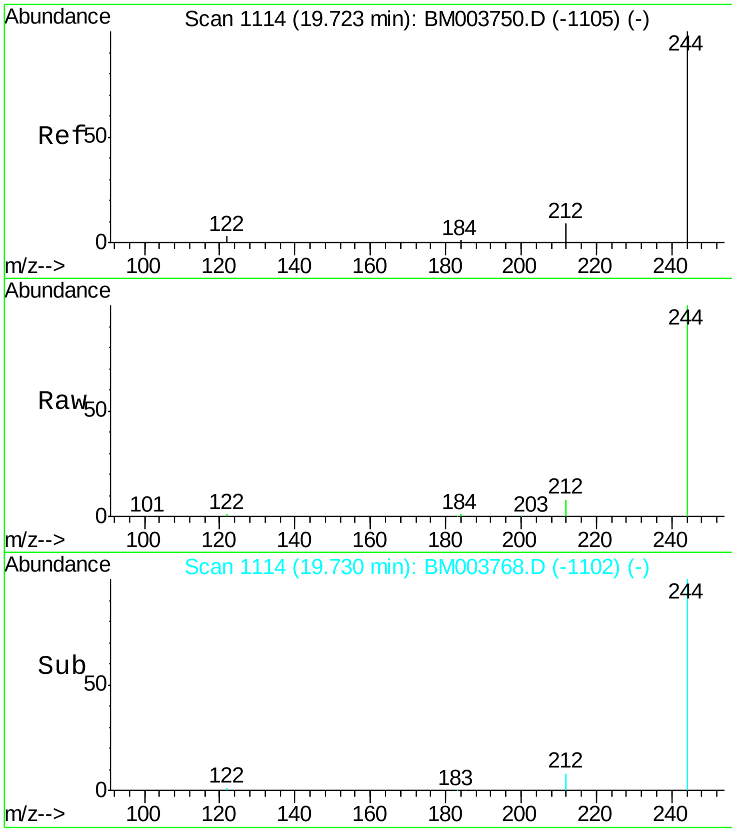
#28
Pyrene
Concen: 3.82 ng
RT: 19.51 min Scan# 1101
Delta R.T. -0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:202 Resp: 281173

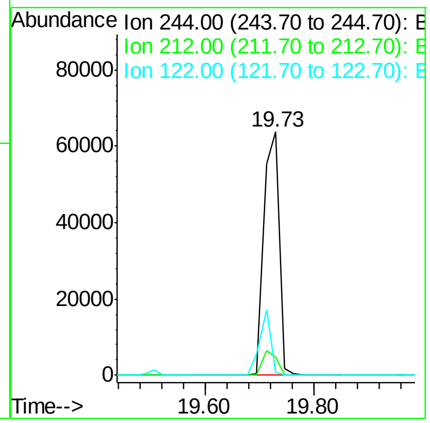
Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.6	24.8
203	17.8	14.0	21.0

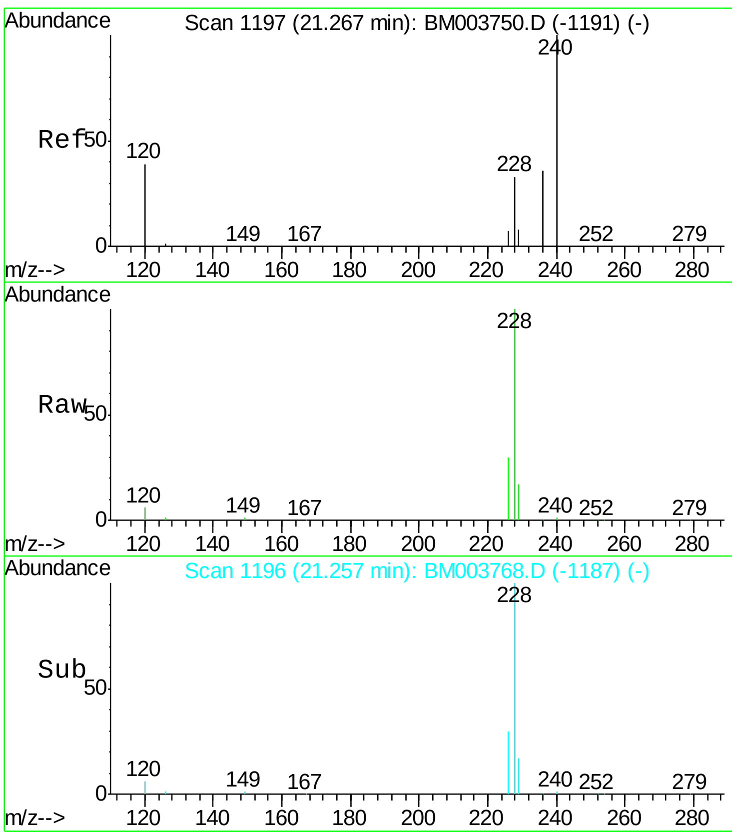


Instrument : BNA_M
ClientSampleId : PB87480BSD

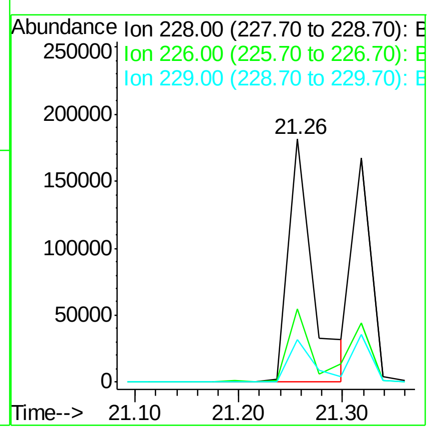



```
#29
Terphenyl-d14
Concen:     3.57 ng
RT: 19.73 min   Scan# 1114
Delta R.T.    0.01 min
Lab File:    BM003768.D
Acq: 24 Dec 2015   07:43

Tgt Ion:244 Resp:   125663
Ion  Ratio  Lower  Upper
244  100
212    7.7    7.0   10.6
122    1.3    3.0    4.6#
```

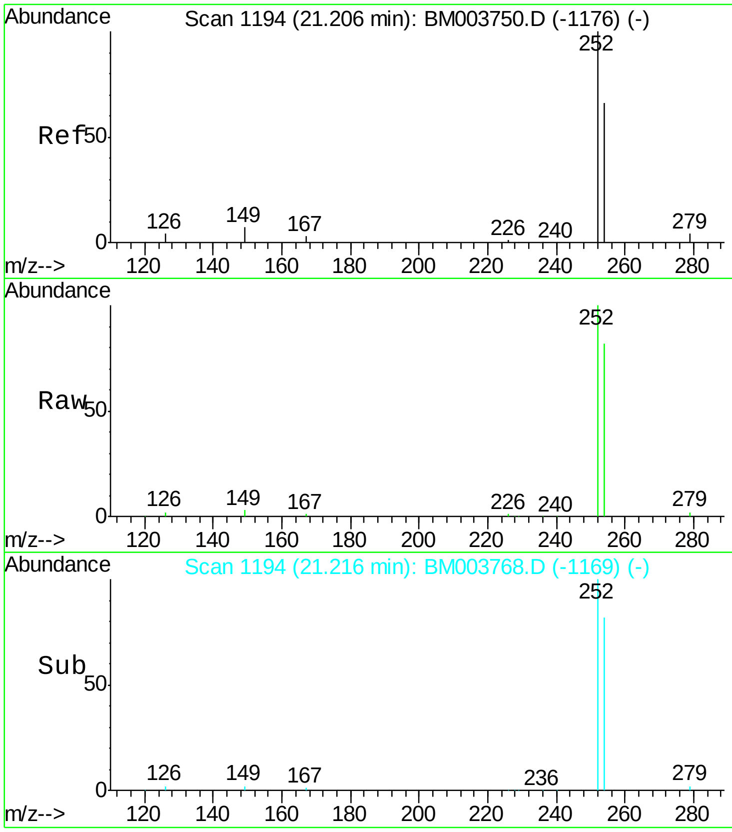





```
#30
Benzo(a)anthracene
Concen:     4.60 ng
RT: 21.26 min   Scan# 1196
Delta R.T.   -0.01 min
Lab File:    BM003768.D
Acq: 24 Dec 2015   07:43

Tgt Ion:228 Resp:   304949
Ion  Ratio  Lower  Upper
228  100
226   30.3   17.2   25.8#
229   17.4   18.7   28.1#
```

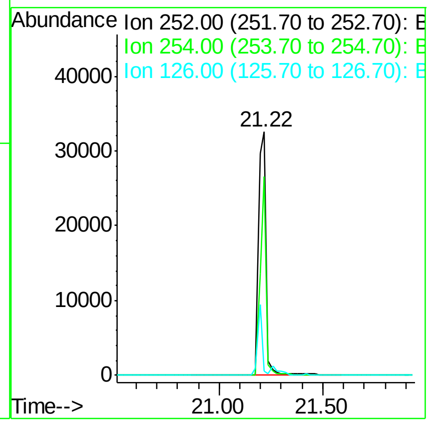


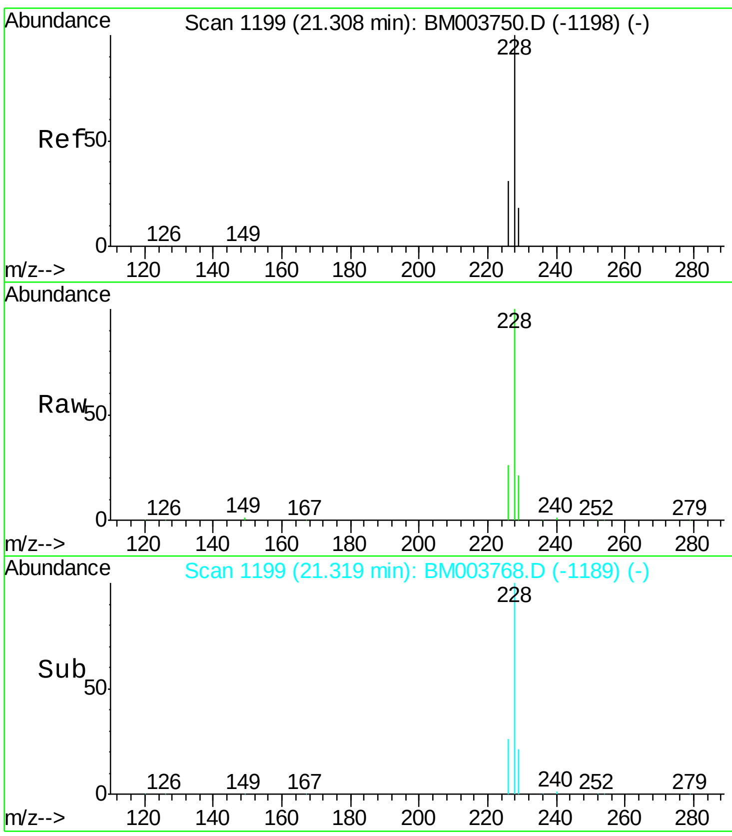
Instrument :
BNA_M
ClientSampleId :
PB87480BSD



#31
3,3'-Dichlorobenzidine
Concen: 3.68 ng
RT: 21.22 min Scan# 1194
Delta R.T. 0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

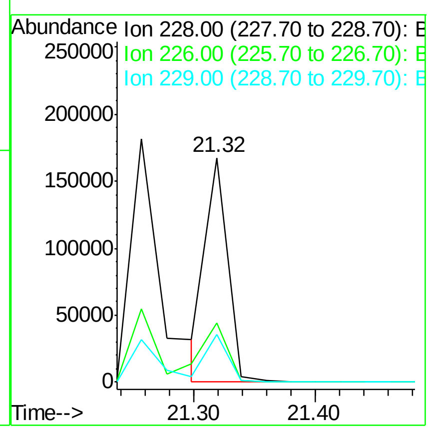
Tgt Ion:252	Resp:		81509
Ion	Ratio	Lower	Upper
252	100		
254	81.8	52.6	79.0#
126	1.8	3.7	5.5#

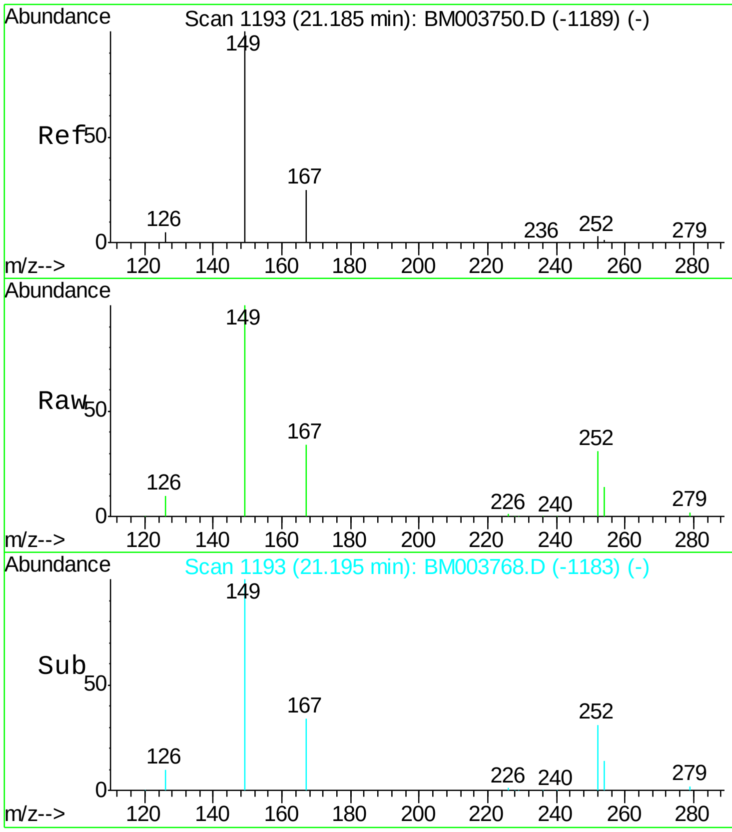




#32
Chrysene
Concen: 3.48 ng
RT: 21.32 min Scan# 1199
Delta R.T. 0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:228	Resp:		212008
Ion	Ratio	Lower	Upper
228	100		
226	26.2	25.3	37.9
229	21.1	14.5	21.7



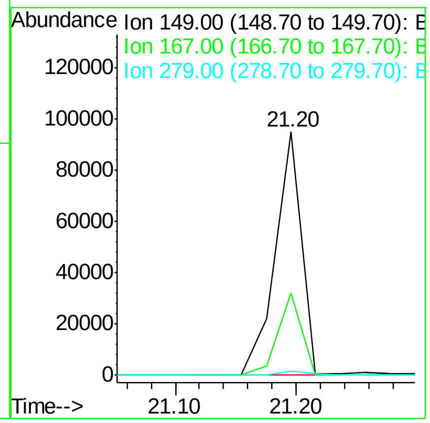


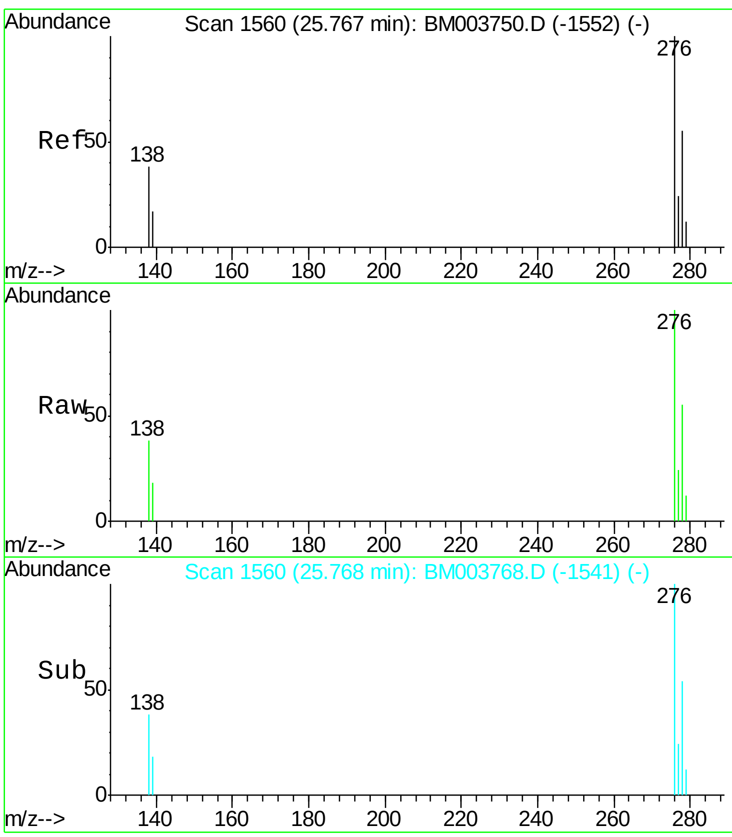
#33
Bis(2-ethylhexyl)phthalate
Concen: 3.06 ng
RT: 21.20 min Scan# 1193
Delta R.T. 0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

Tgt Ion:149 Resp: 144595

Ion	Ratio	Lower	Upper
149	100		
167	30.3	20.1	30.1#
279	2.1	0.0	0.0#

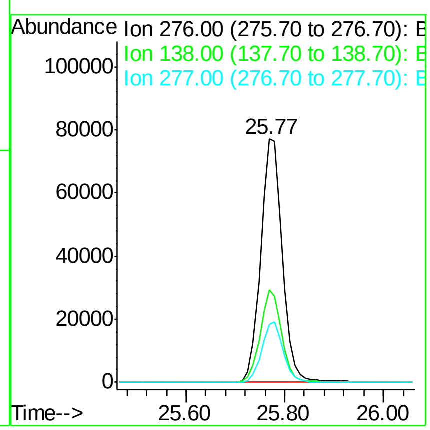


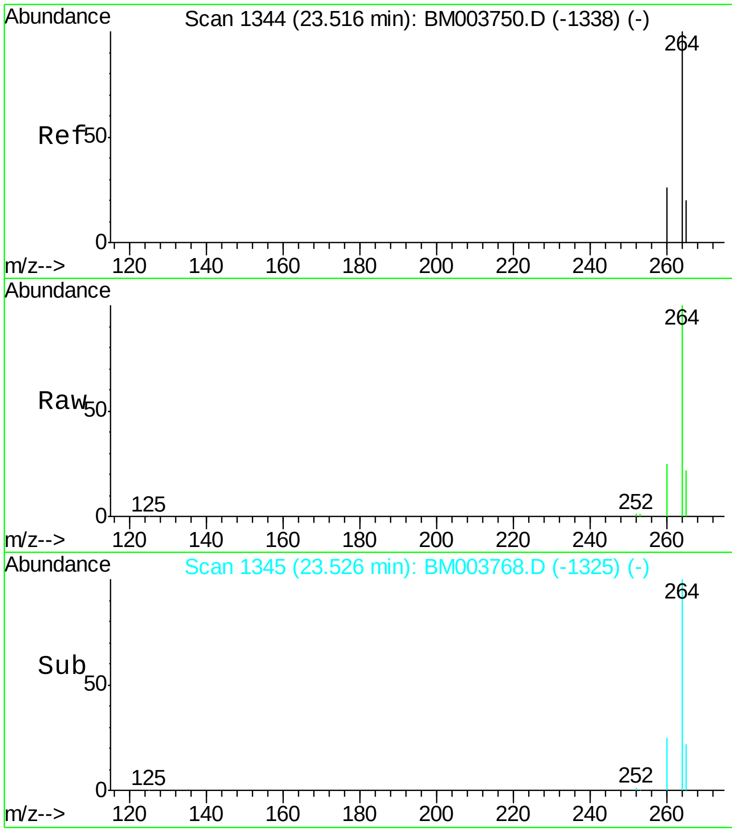


#34
Indeno(1,2,3-cd)pyrene
Concen: 4.95 ng
RT: 25.77 min Scan# 1560
Delta R.T. 0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:276 Resp: 231699

Ion	Ratio	Lower	Upper
276	100		
138	37.3	30.2	45.2
277	24.7	19.8	29.8



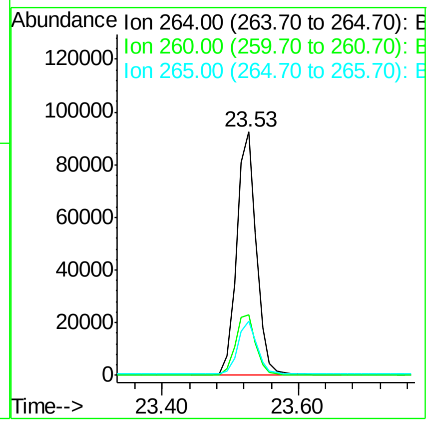


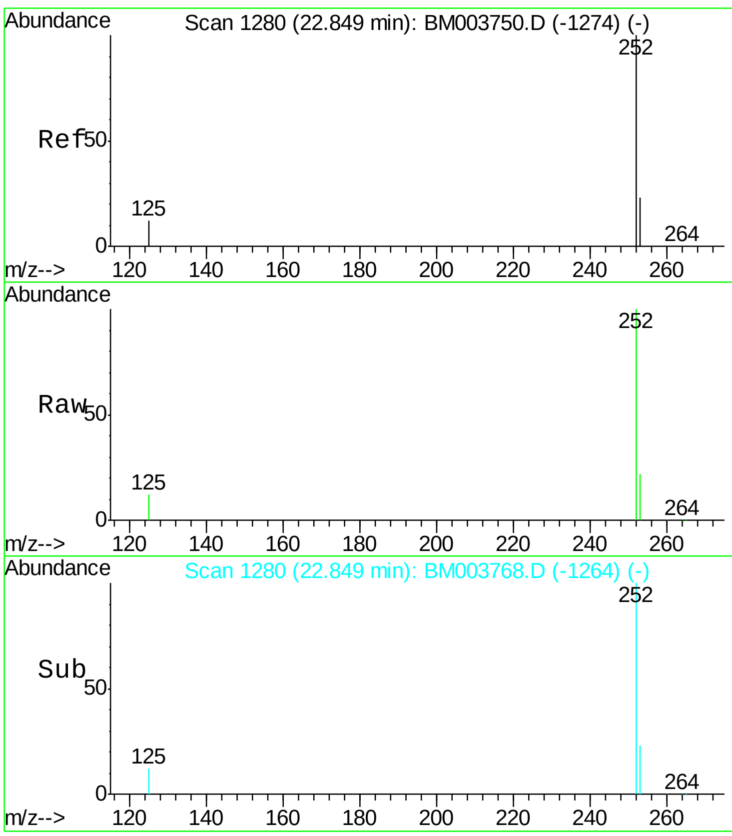
#35
Perylene-d12
Concen: 5.00 ng
RT: 23.53 min Scan# 1345
Delta R.T. 0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument :
BNA_M
ClientSampleId :
PB87480BSD

Tgt Ion:264 Resp: 186530

Ion	Ratio	Lower	Upper
264	100		
260	24.7	21.2	31.8
265	22.1	16.7	25.1

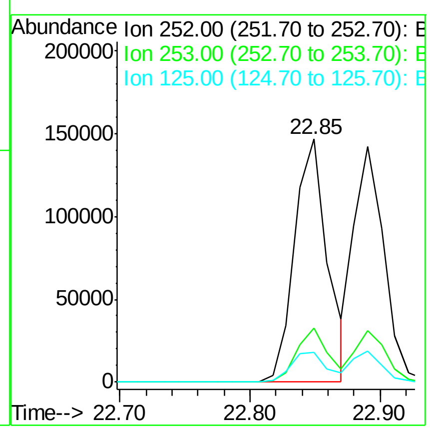


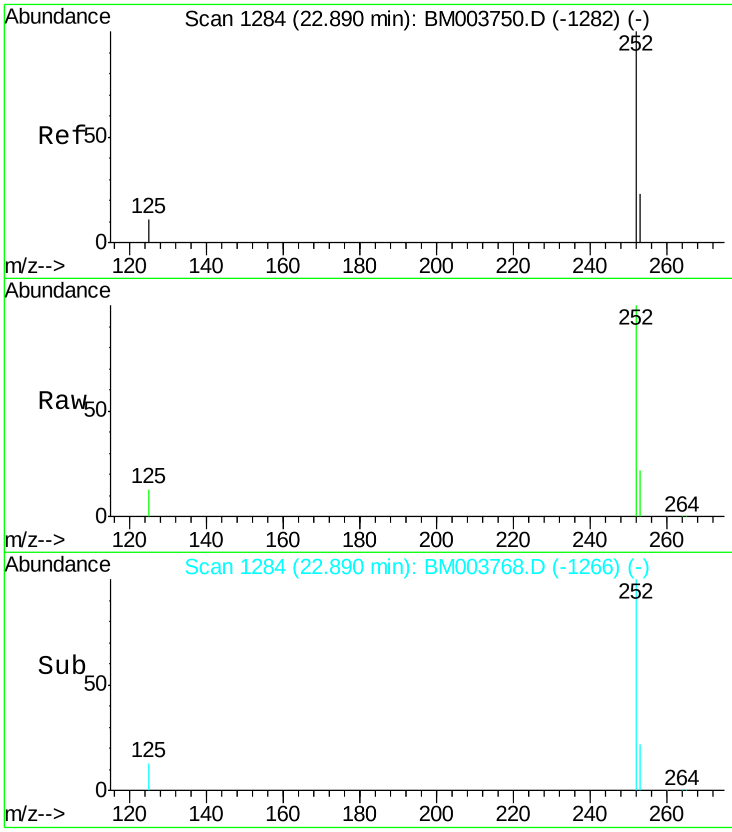


#36
Benzo(b)fluoranthene
Concen: 4.23 ng
RT: 22.85 min Scan# 1280
Delta R.T. 0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:252 Resp: 257756

Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.8	28.2
125	12.4	10.2	15.4



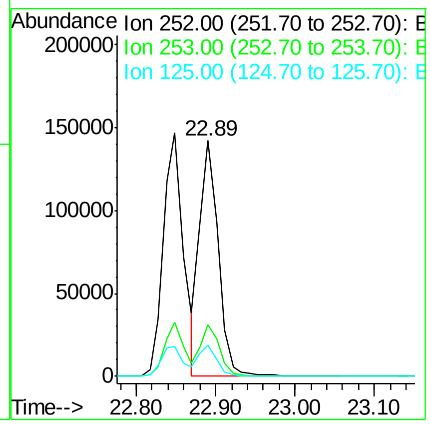


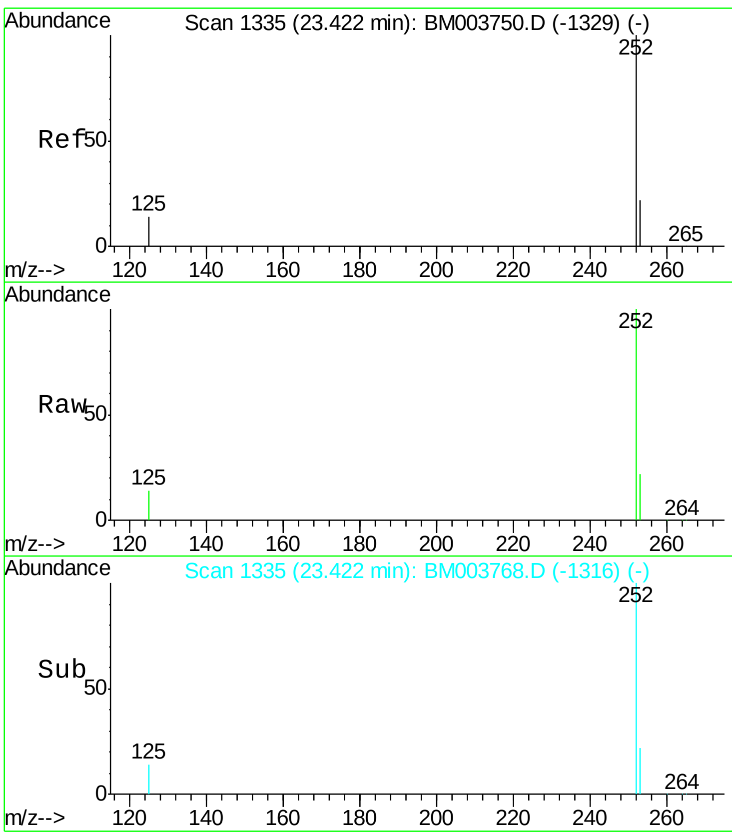
#37
Benzo(k)fluoranthene
Concen: 4.10 ng
RT: 22.89 min Scan# 1284
Delta R.T. 0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument : BNA_M
ClientSampleId : PB87480BSD

Tgt Ion:252 Resp: 230257

Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.3	27.5
125	13.1	10.6	15.8

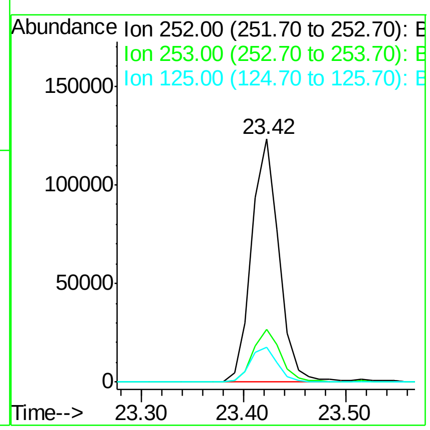


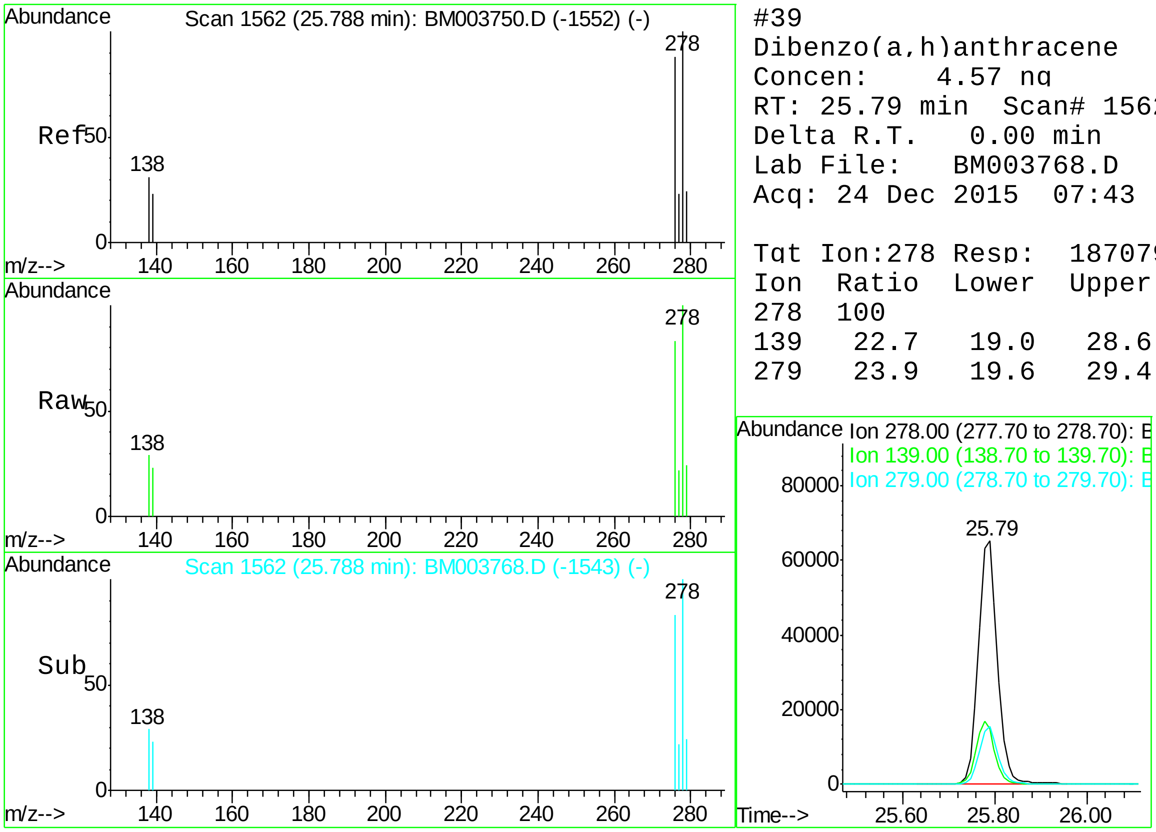


#38
Benzo(a)pyrene
Concen: 4.38 ng
RT: 23.42 min Scan# 1335
Delta R.T. 0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:252 Resp: 228595

Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.7	28.1
125	14.1	11.8	17.8



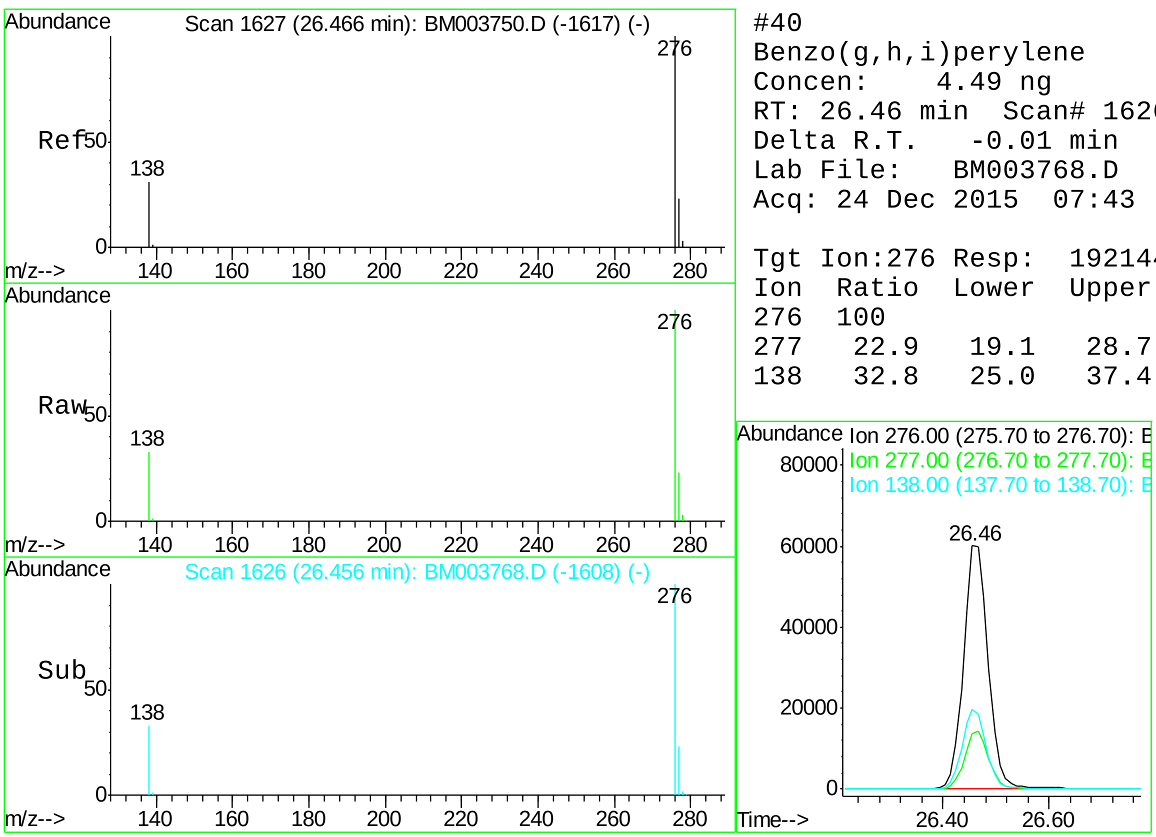


#39
Dibenzo(a,h)anthracene
Concen: 4.57 ng
RT: 25.79 min Scan# 1562
Delta R.T. 0.00 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Instrument : BNA_M
ClientSampleId : PB87480BSD

Tgt Ion:278 Resp: 187079

Ion	Ratio	Lower	Upper
278	100		
139	22.7	19.0	28.6
279	23.9	19.6	29.4



#40
Benzo(g,h,i)perylene
Concen: 4.49 ng
RT: 26.46 min Scan# 1626
Delta R.T. -0.01 min
Lab File: BM003768.D
Acq: 24 Dec 2015 07:43

Tgt Ion:276 Resp: 192144

Ion	Ratio	Lower	Upper
276	100		
277	22.9	19.1	28.7
138	32.8	25.0	37.4