

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM033115\
 Data File : BM000771.D
 Acq On : 01 Apr 2015 02:00
 Operator : TP/IZ
 Sample : MDL-02-S
 Misc : MDL-SOIL-0.1/0.2PPM
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Apr 01 15:08:48 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM033115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 01 04:17:30 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	43393	5.00	ng	0.00
4) Naphthalene-d8	10.40	136	146502	5.00	ng	0.00
8) Acenaphthene-d10	14.28	164	70061	5.00	ng	0.00
13) Phenanthrene-d10	17.01	188	152269	5.00	ng	0.00
19) Chrysene-d12	21.21	240	125524	5.00	ng	0.00
25) Perylene-d12	23.40	264	116029	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.77	82	68035	7.58	ng	0.00
9) 2-Fluorobiphenyl	12.89	172	200209	9.21	ng	0.00
21) Terphenyl-d14	19.66	244	153116	10.14	ng	0.00

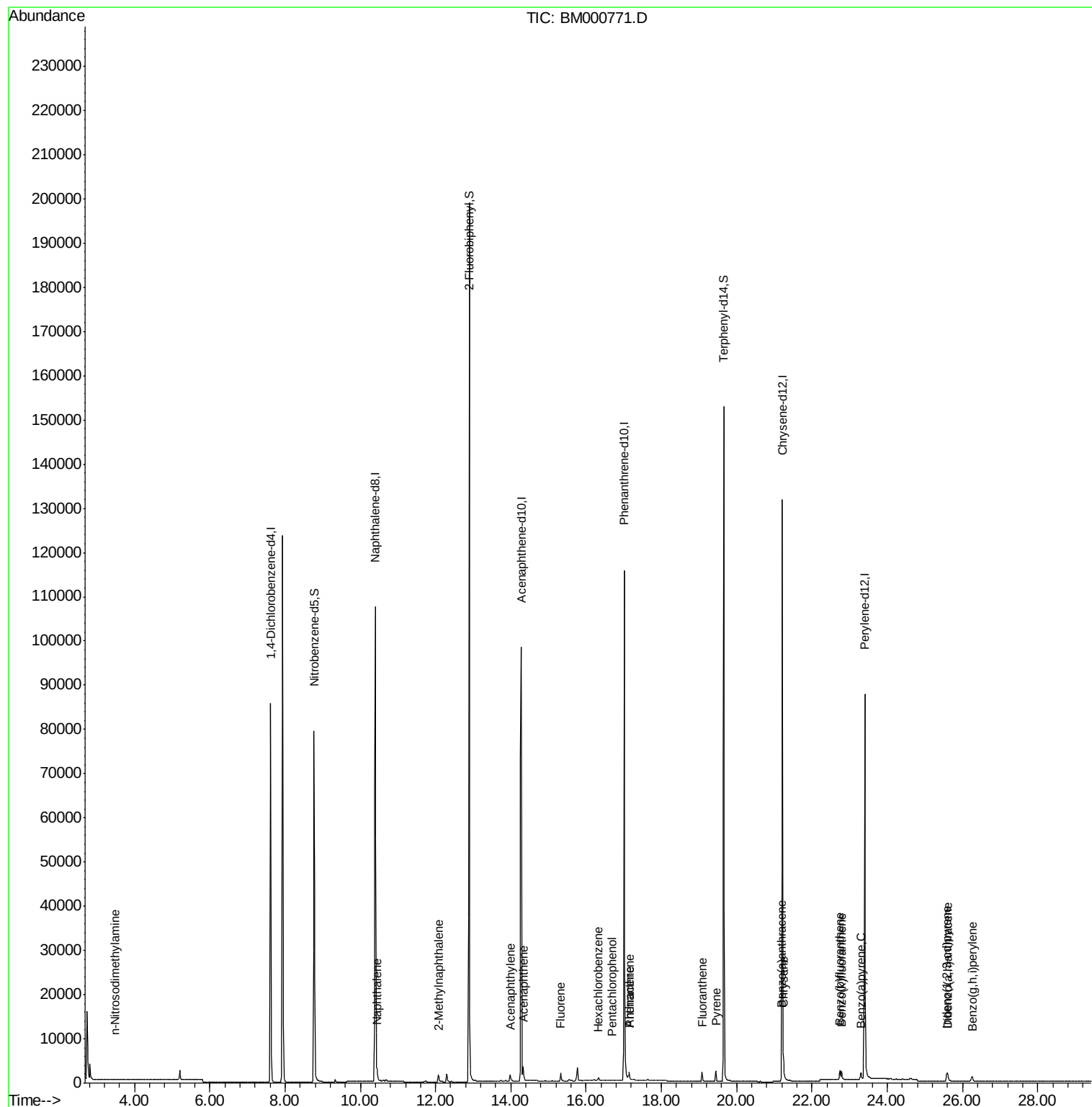
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.48	42	97	0.17	ng	# 19
6) Naphthalene	10.45	128	2430	0.07	ng	# 94
7) 2-Methylnaphthalene	12.08	142	1444	0.07	ng	95
10) Acenaphthylene	13.98	152	1881	0.06	ng	99
11) Acenaphthene	14.33	154	1452	0.07	ng	97
12) Fluorene	15.32	166	1674	0.07	ng	99
14) Hexachlorobenzene	16.33	284	640	0.07	ng	# 98
15) Pentachlorophenol	16.70	266	21	0.37	ng	# 60
16) Phenanthrene	17.15	178	2398	0.06	ng	97
17) Anthracene	17.15	178	2398	0.07	ng	98
18) Fluoranthene	19.09	202	2788	0.07	ng	99
20) Pyrene	19.45	202	2942	0.07	ng	99
22) Benzo(a)anthracene	21.19	228	2840	0.08	ng	# 90
23) Chrysene	21.24	228	3053	0.08	ng	97
24) Indeno(1,2,3-cd)pyrene	25.59	276	2774	0.07	ng	100
26) Benzo(b)fluoranthene	22.74	252	2560	0.07	ng	# 80
27) Benzo(k)fluoranthene	22.79	252	2636	0.08	ng	# 78
28) Benzo(a)pyrene	23.30	252	2272	0.07	ng	# 72
29) Dibenzo(a,h)anthracene	25.60	278	2266	0.07	ng	# 80
30) Benzo(g,h,i)perylene	26.26	276	2537	0.08	ng	91

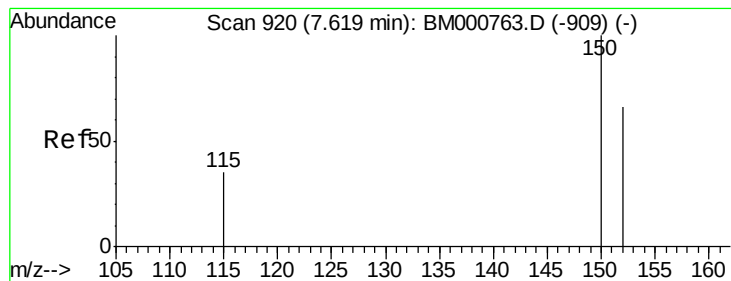
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.62 min Scan# 920

Delta R.T. 0.00 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

Instrument :

BNA_M

ClientSampleId :

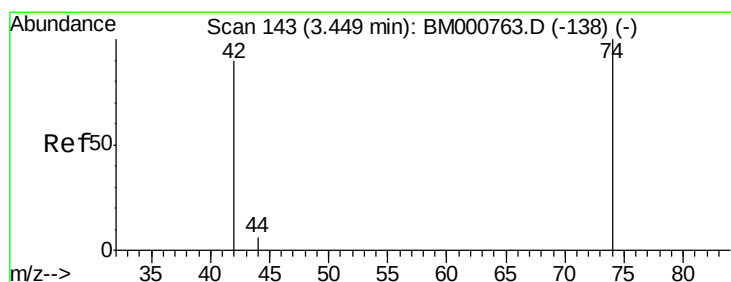
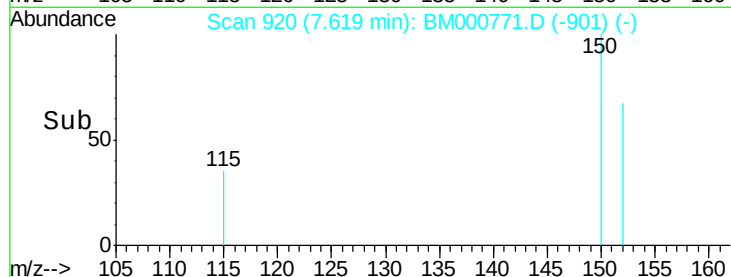
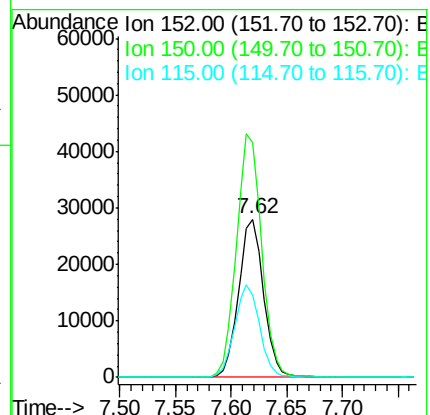
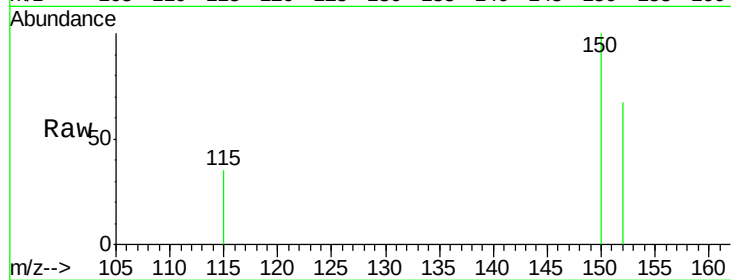
Tgt Ion:152 Resp: 43393

Ion Ratio Lower Upper

152 100

150 148.7 120.8 181.2

115 51.8 42.7 64.1



#3

n-Nitrosodimethylamine

Concen: 0.17 ng

RT: 3.48 min Scan# 149

Delta R.T. 0.03 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

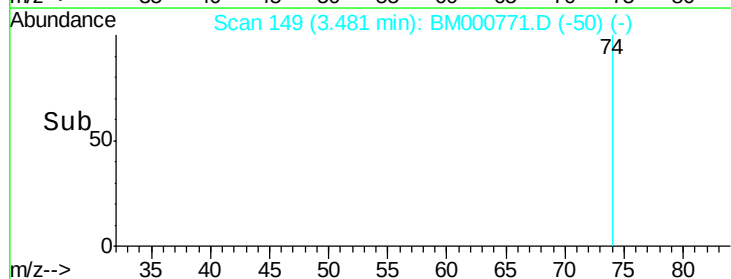
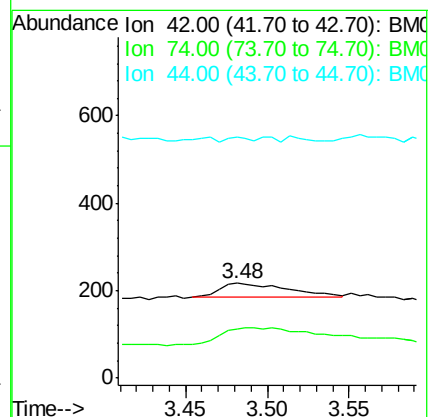
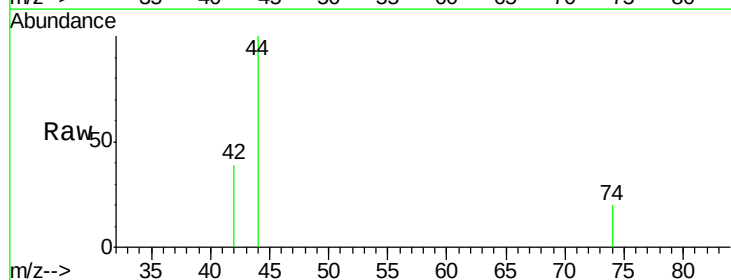
Tgt Ion: 42 Resp: 97

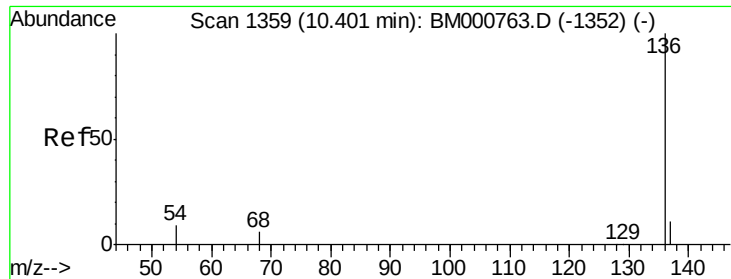
Ion Ratio Lower Upper

42 100

74 211.3 93.6 140.4#

44 10.3 6.3 9.5#





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.40 min Scan# 1359

Delta R.T. 0.00 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

Instrument :

BNA_M

ClientSampled :

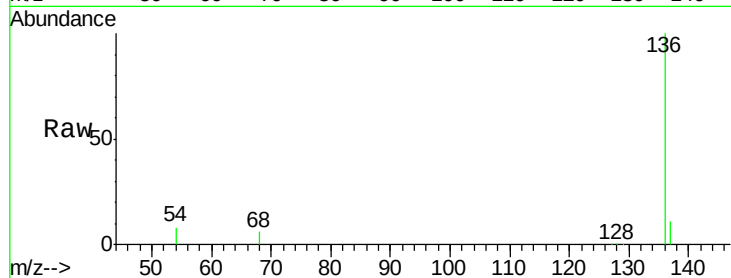
Tgt Ion: 136 Resp: 146502

Ion Ratio Lower Upper

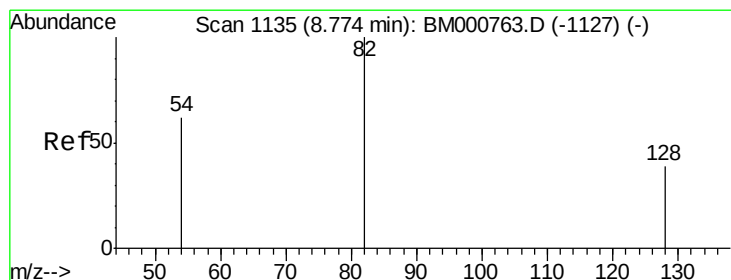
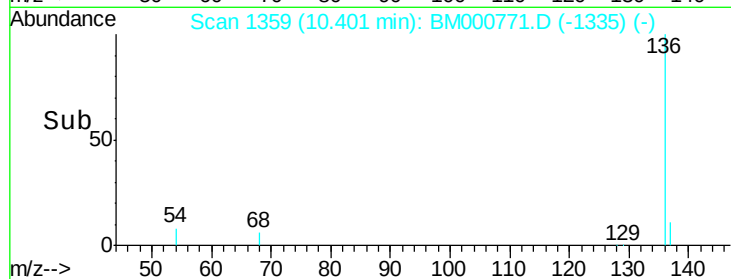
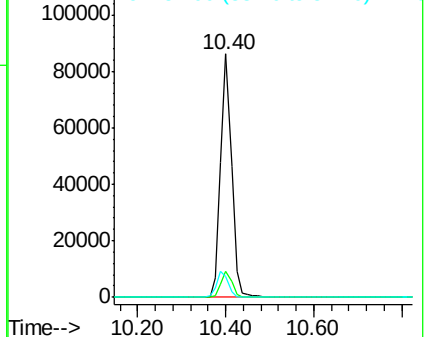
136 100

137 10.8 8.6 12.8

54 8.4 7.0 10.6



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): BM



#5

Nitrobenzene-d5

Concen: 7.58 ng

RT: 8.77 min Scan# 1135

Delta R.T. 0.00 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

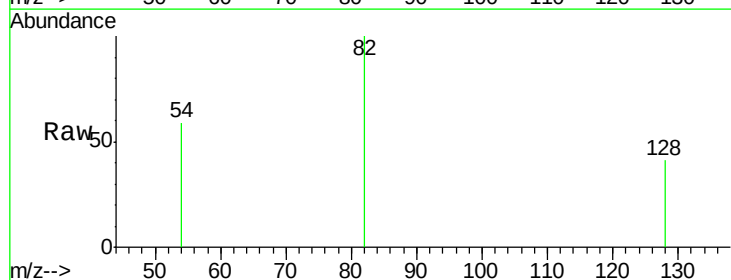
Tgt Ion: 82 Resp: 68035

Ion Ratio Lower Upper

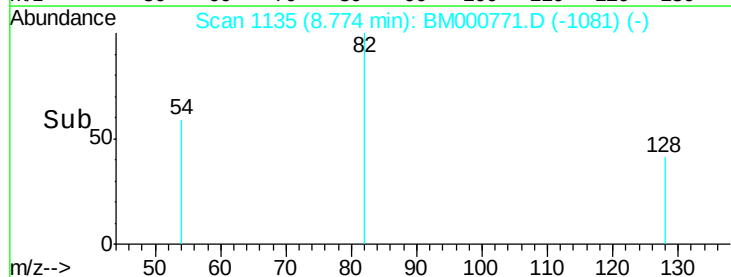
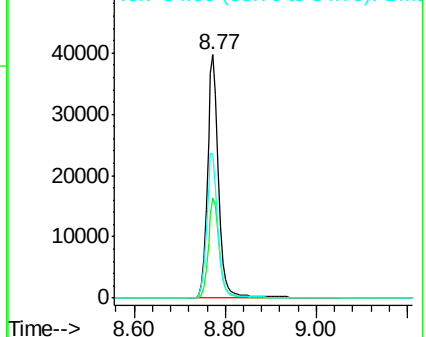
82 100

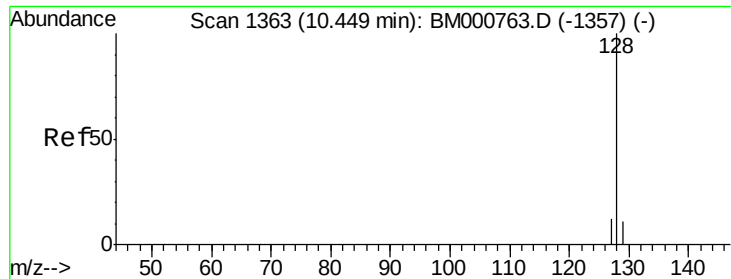
128 41.3 32.2 48.2

54 59.3 50.2 75.4



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





#6

Naphthalene

Concen: 0.07 ng

RT: 10.45 min Scan# 1363

Delta R.T. 0.00 min

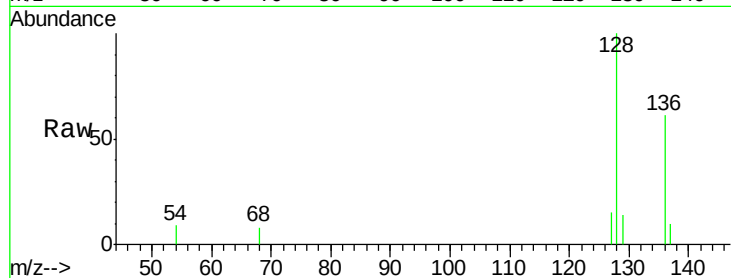
Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

Instrument :

BNA_M

ClientSampleId :



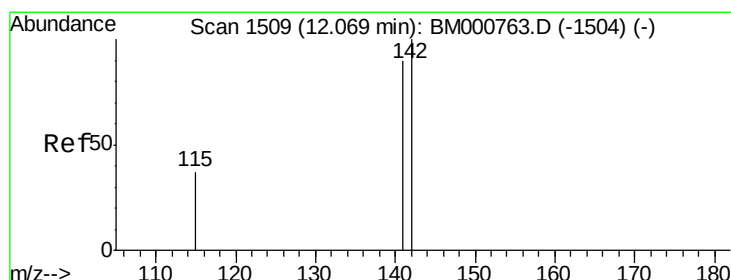
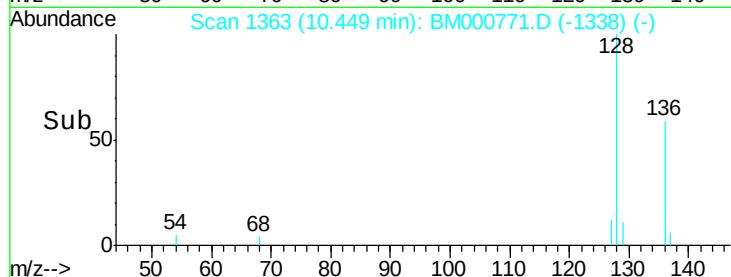
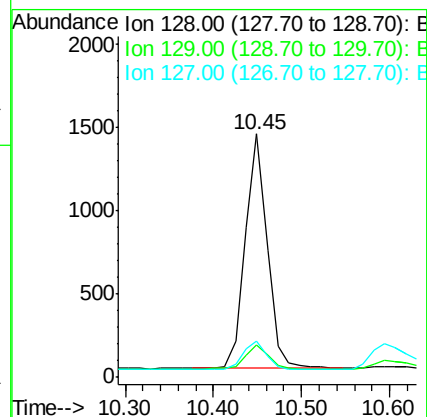
Tgt Ion:128 Resp: 2430

Ion Ratio Lower Upper

128 100

129 13.6 8.9 13.3#

127 15.1 10.0 15.0#



#7

2-Methylnaphthalene

Concen: 0.07 ng

RT: 12.08 min Scan# 1510

Delta R.T. 0.01 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

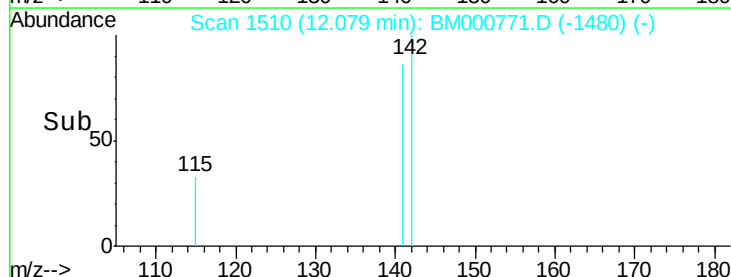
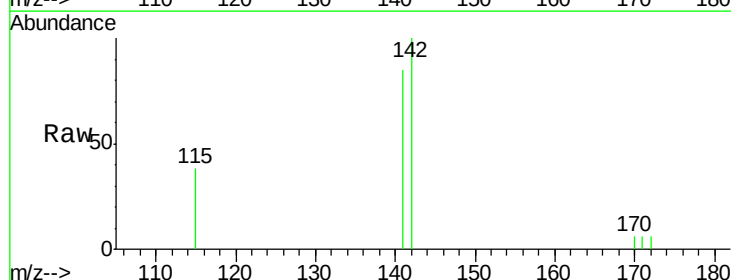
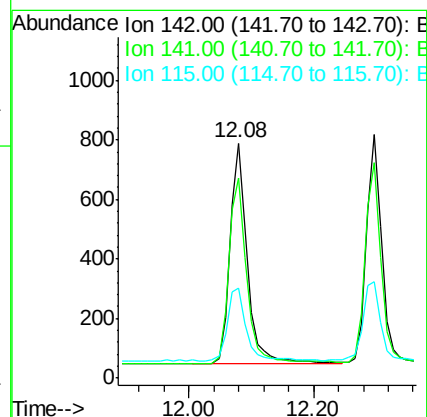
Tgt Ion:142 Resp: 1444

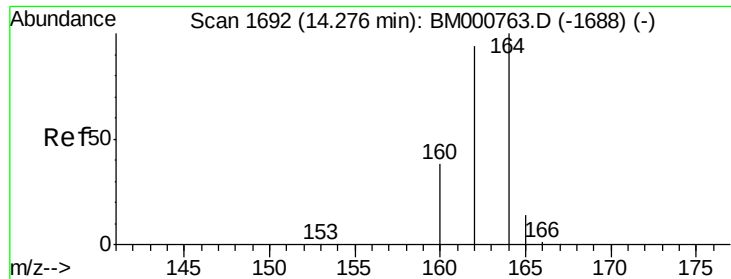
Ion Ratio Lower Upper

142 100

141 85.3 72.3 108.5

115 38.4 29.5 44.3





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.28 min Scan# 1692

Delta R.T. 0.00 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

Instrument :

BNA_M

ClientSampleId :

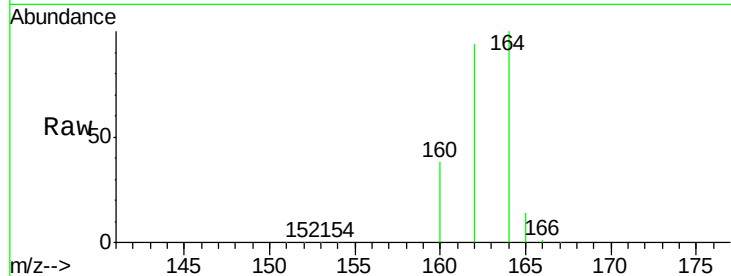
Tgt Ion:164 Resp: 70061

Ion Ratio Lower Upper

164 100

162 94.3 75.4 113.2

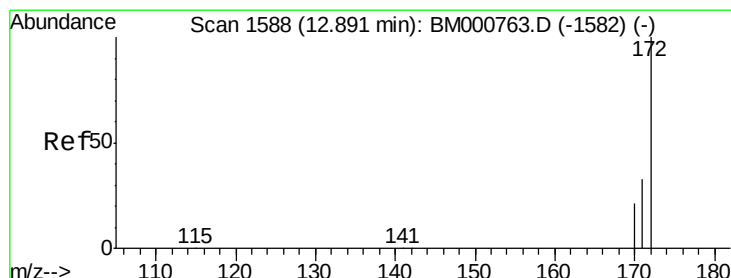
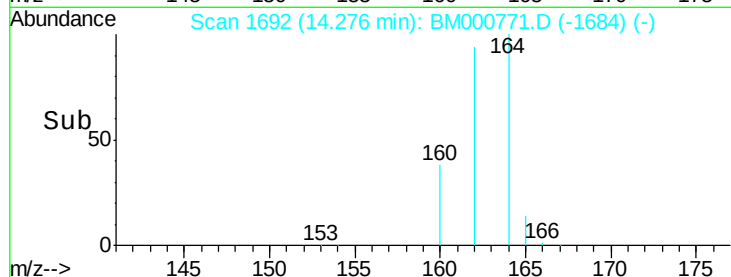
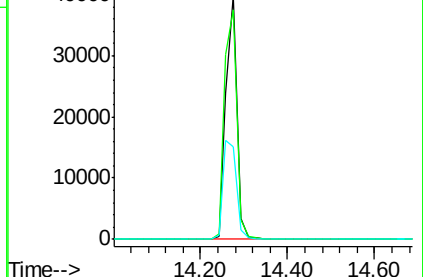
160 37.9 30.8 46.2



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



#9

2-Fluorobiphenyl

Concen: 9.21 ng

RT: 12.89 min Scan# 1588

Delta R.T. 0.00 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

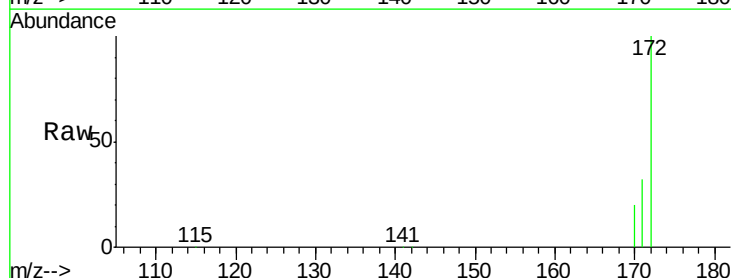
Tgt Ion:172 Resp: 200209

Ion Ratio Lower Upper

172 100

171 31.8 26.6 39.8

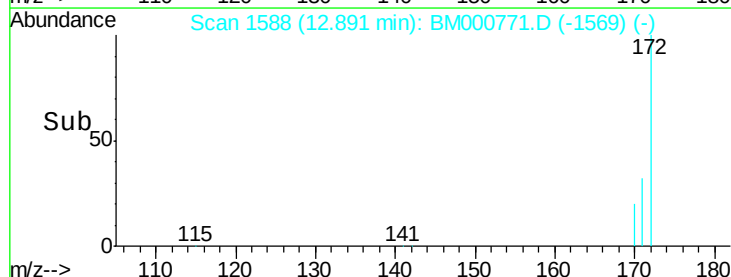
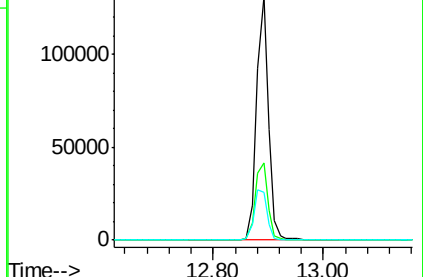
170 19.6 17.1 25.7

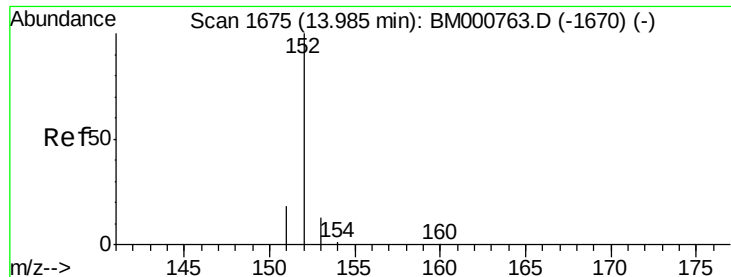


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#10

Acenaphthylene

Concen: 0.06 ng

RT: 13.98 min Scan# 1675

Delta R.T. 0.00 min

Lab File: BM000771.D

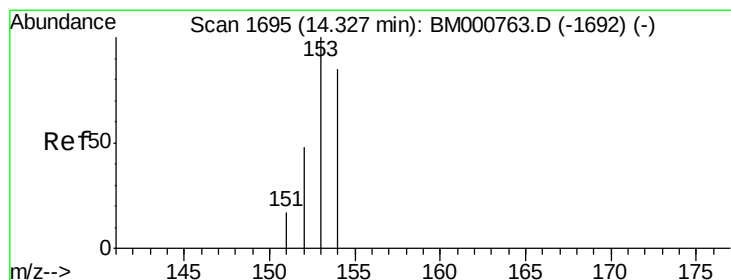
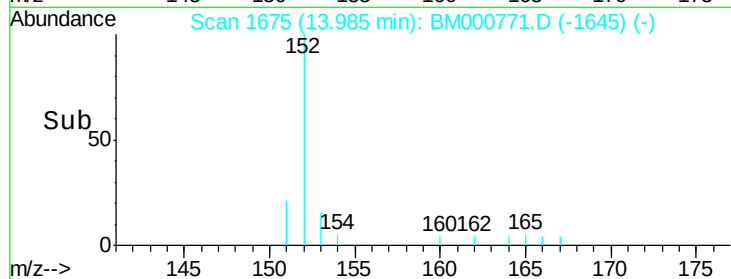
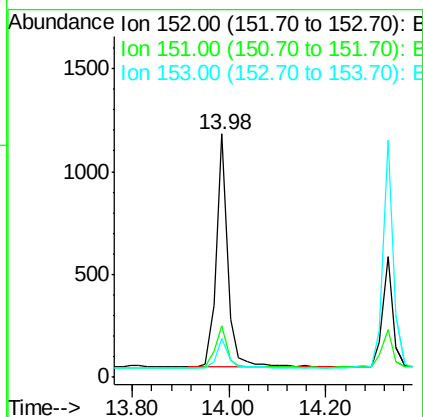
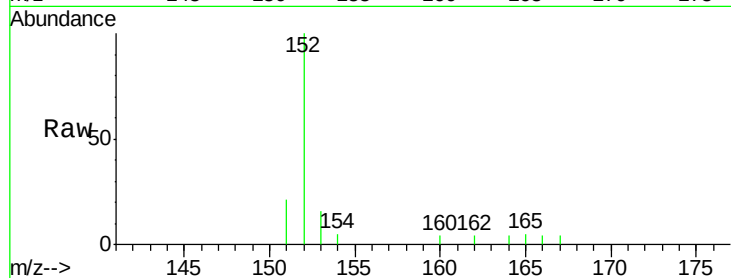
Acq: 01 Apr 2015 02:00

Instrument :

BNA_M

ClientSampleId :

Tgt Ion:	152	Resp:	1881
Ion	Ratio	Lower	Upper
152	100		
151	18.7	15.1	22.7
153	12.3	10.2	15.4



#11

Acenaphthene

Concen: 0.07 ng

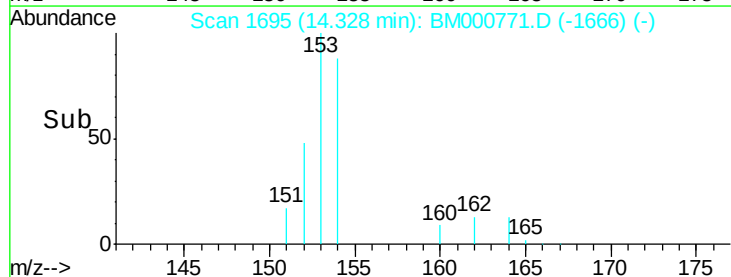
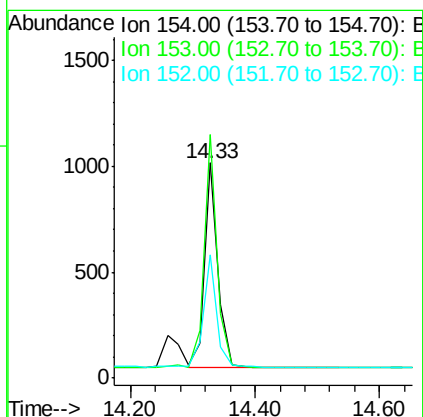
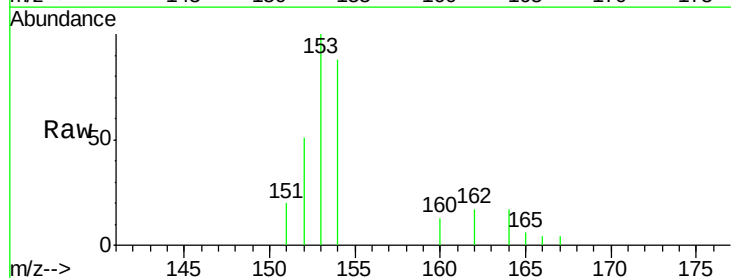
RT: 14.33 min Scan# 1695

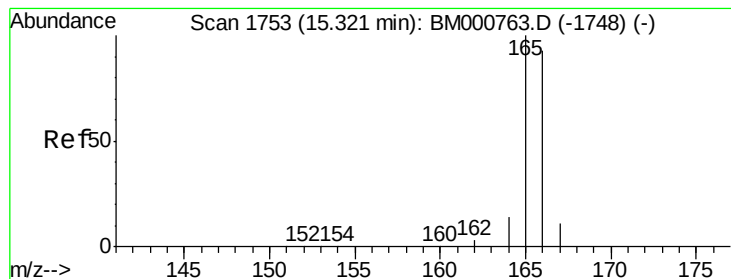
Delta R.T. 0.00 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

Tgt Ion:	154	Resp:	1452
Ion	Ratio	Lower	Upper
154	100		
153	112.9	87.3	130.9
152	54.9	43.0	64.6





#12

Fluorene

Concen: 0.07 ng

RT: 15.32 min Scan# 1753

Delta R.T. 0.00 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

Instrument :

BNA_M

ClientSampleId :

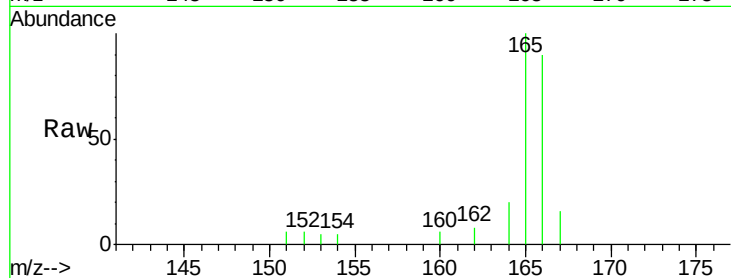
Tgt Ion:166 Resp: 1674

Ion Ratio Lower Upper

166 100

165 98.4 78.2 117.2

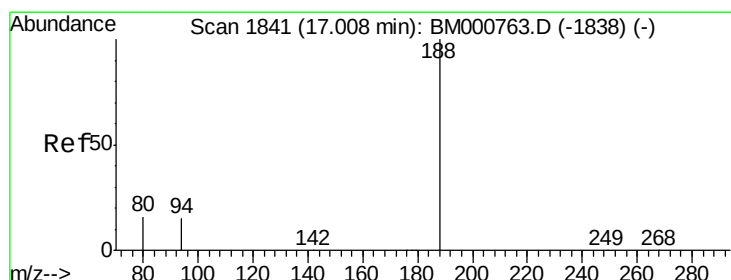
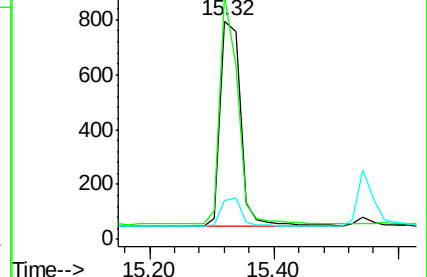
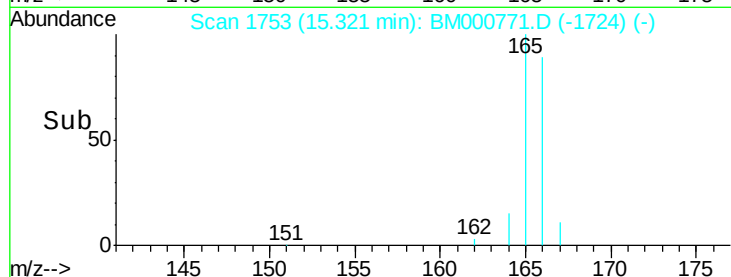
167 13.9 10.7 16.1



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.01 min Scan# 1841

Delta R.T. 0.00 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

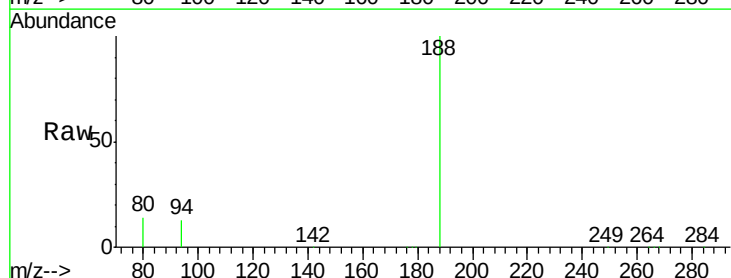
Tgt Ion:188 Resp: 152269

Ion Ratio Lower Upper

188 100

94 13.3 12.0 18.0

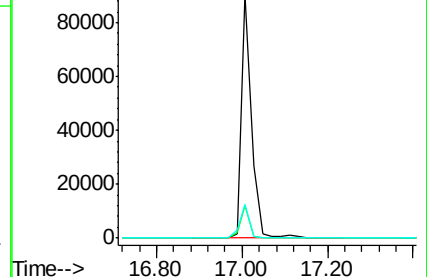
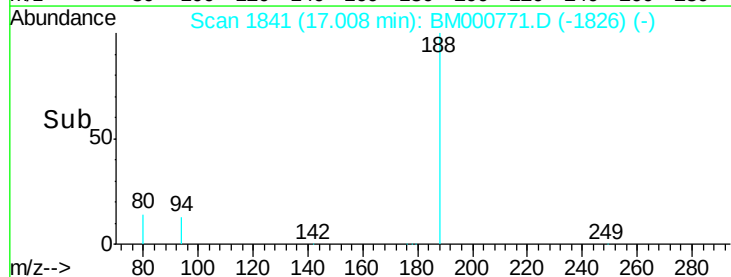
80 14.1 12.8 19.2

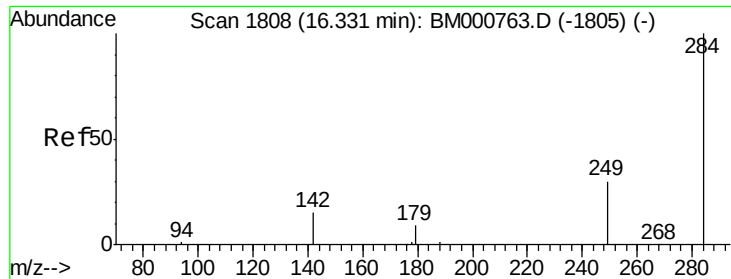


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

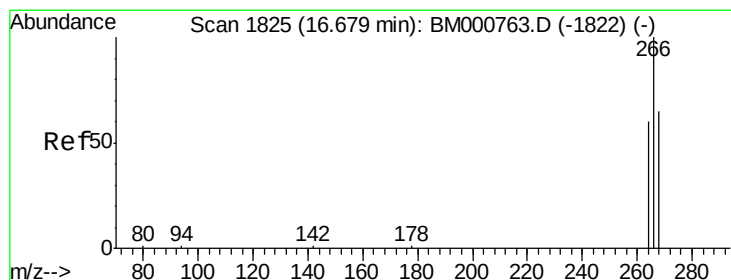
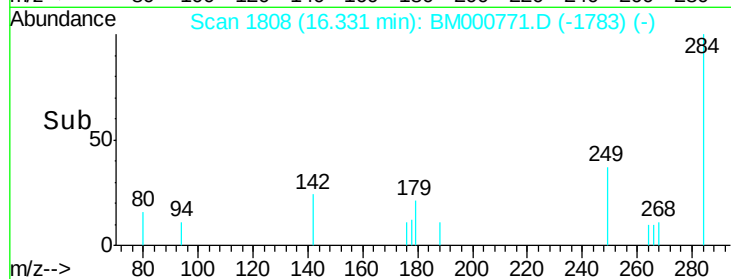
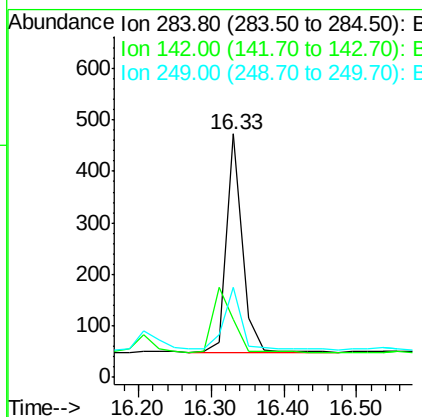
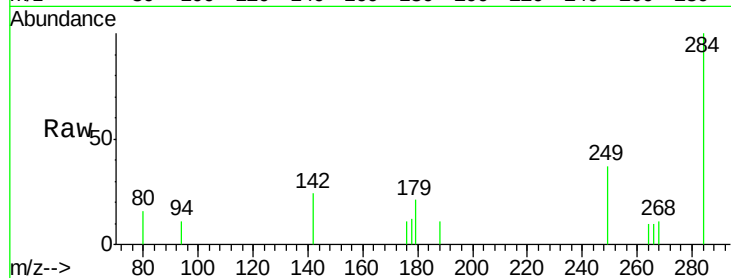




#14
Hexachlorobenzene
Concen: 0.07 ng
RT: 16.33 min Scan# 1808
Delta R.T. 0.00 min
Lab File: BM000771.D
Acq: 01 Apr 2015 02:00

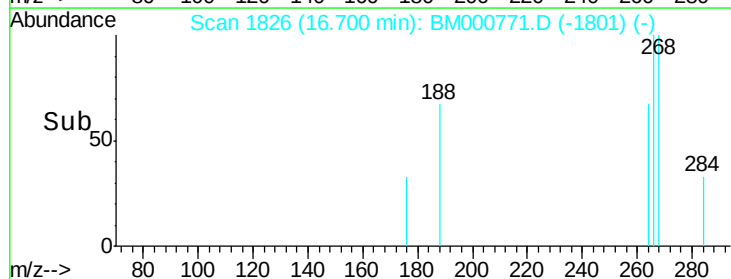
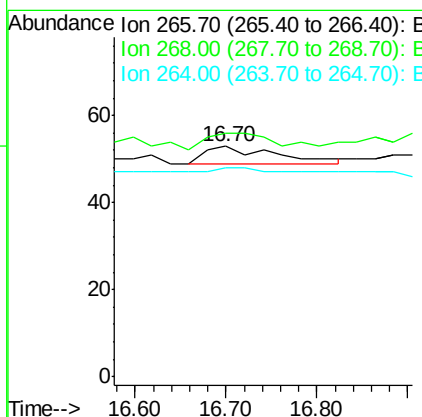
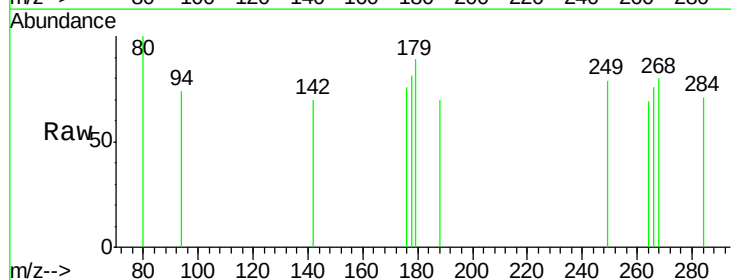
Instrument :
BNA_M
ClientSampleId :

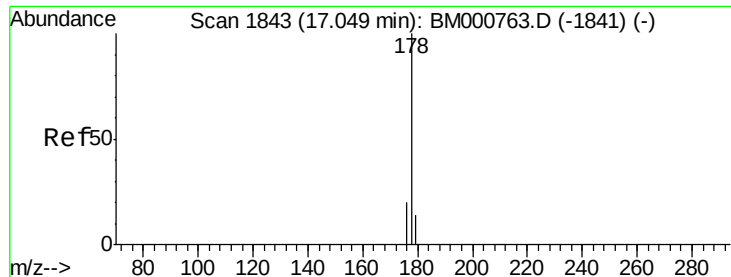
Tgt Ion: 284 Resp: 640
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 32.5 25.2 37.8



#15
Pentachlorophenol
Concen: 0.37 ng
RT: 16.70 min Scan# 1826
Delta R.T. 0.02 min
Lab File: BM000771.D
Acq: 01 Apr 2015 02:00

Tgt Ion: 266 Resp: 21
Ion Ratio Lower Upper
266 100
268 105.7 55.0 82.6#
264 90.6 51.0 76.4#





#16

Phenanthrene

Concen: 0.06 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.10 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

Instrument :

BNA_M

ClientSampleId :

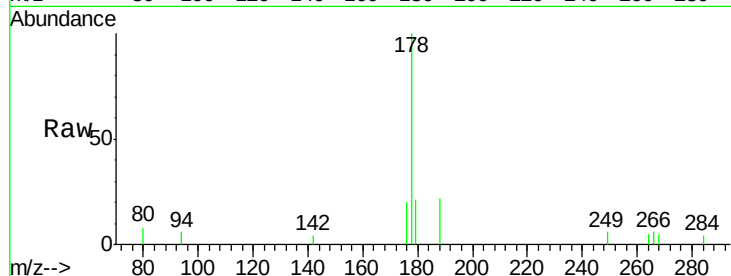
Tgt Ion:178 Resp: 2398

Ion Ratio Lower Upper

178 100

176 17.8 15.3 22.9

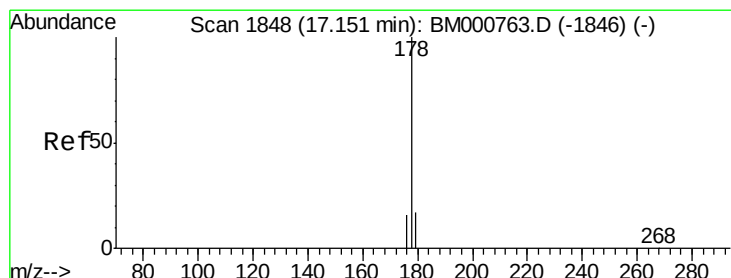
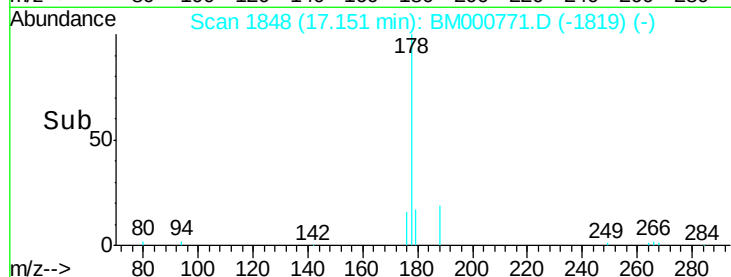
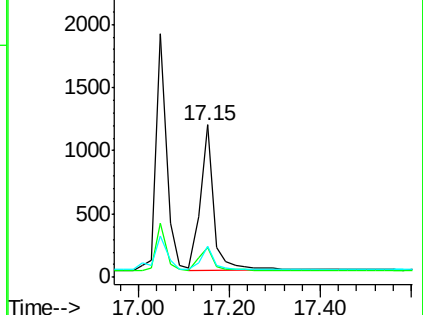
179 16.9 12.2 18.2



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



#17

Anthracene

Concen: 0.07 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.00 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

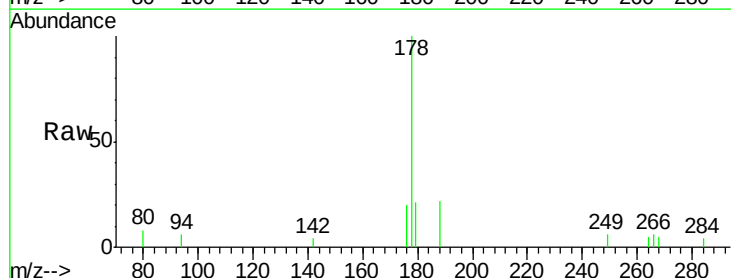
Tgt Ion:178 Resp: 2398

Ion Ratio Lower Upper

178 100

176 17.8 14.6 22.0

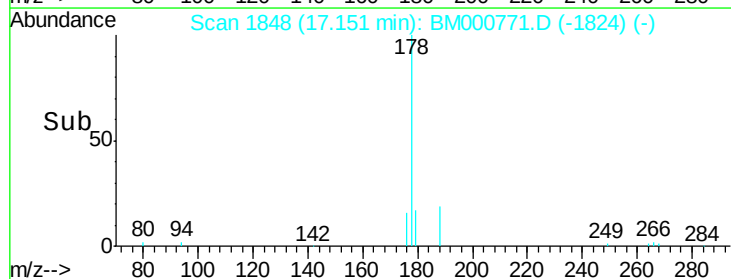
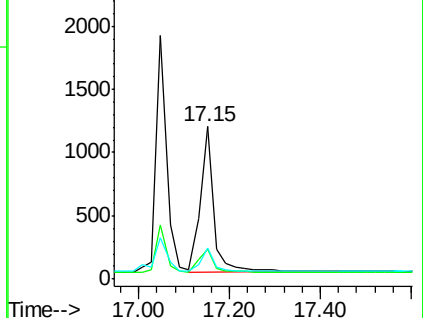
179 16.9 12.2 18.4

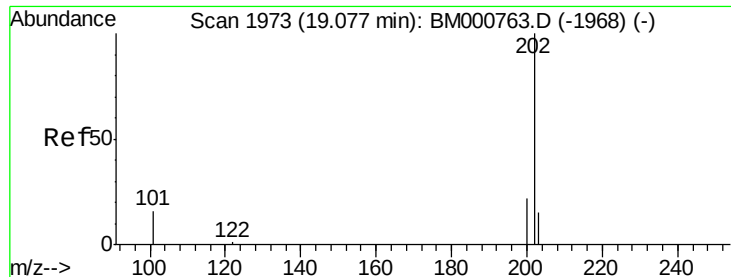


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

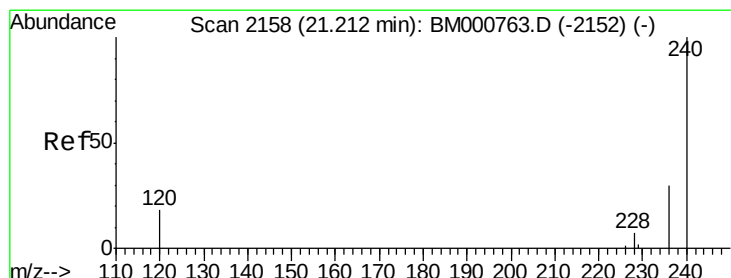
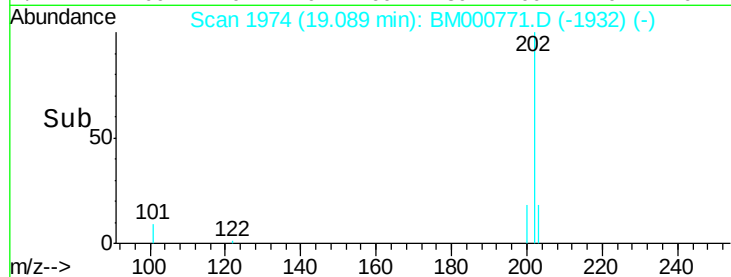
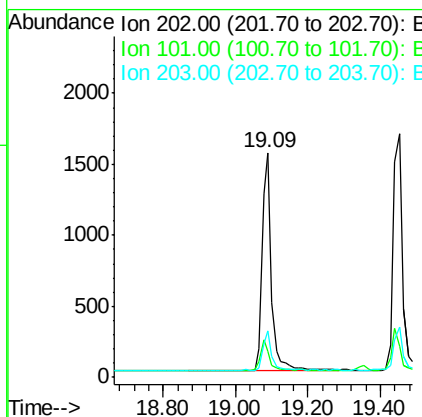
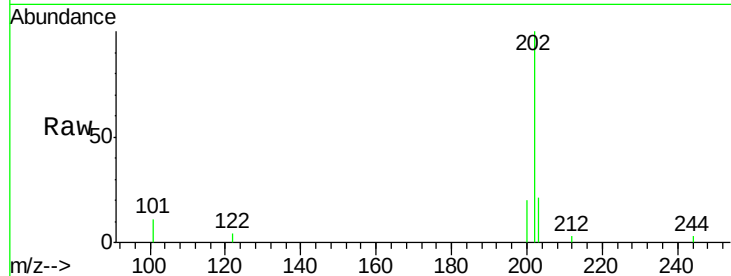




#18
 Fluoranthene
 Concen: 0.07 ng
 RT: 19.09 min Scan# 1974
 Delta R.T. 0.01 min
 Lab File: BM000771.D
 Acq: 01 Apr 2015 02:00

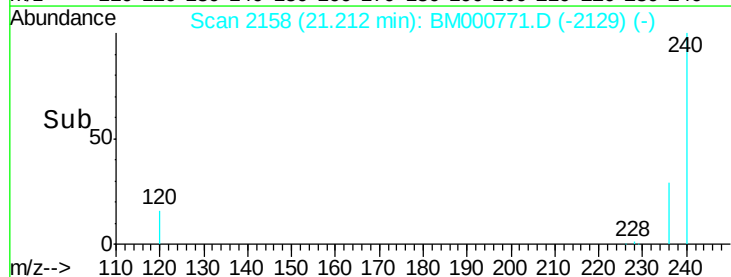
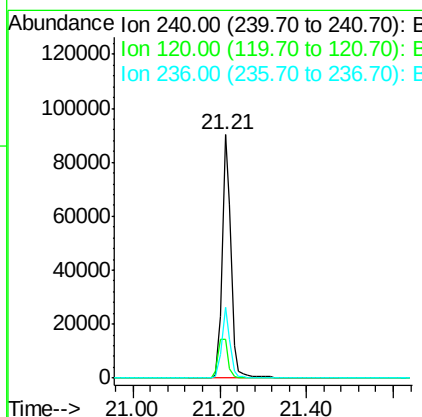
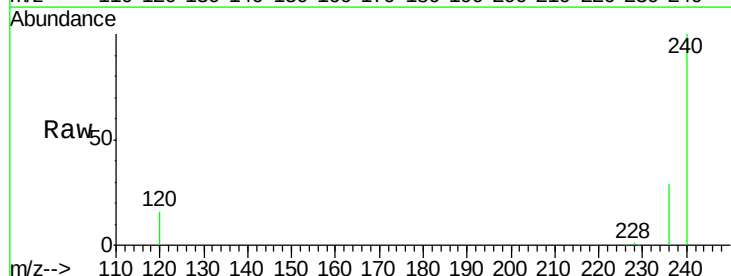
Instrument :
 BNA_M
 ClientSampleId :

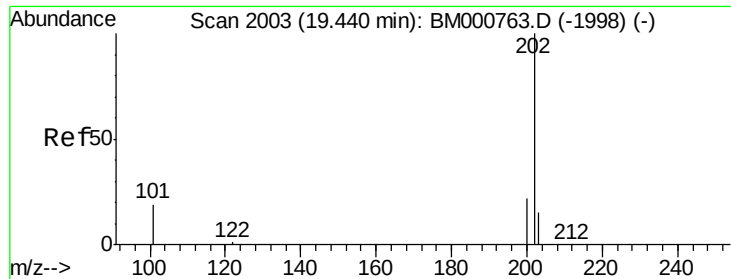
Tgt Ion: 202 Resp: 2788
 Ion Ratio Lower Upper
 202 100
 101 12.7 10.5 15.7
 203 17.6 13.8 20.8



#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.21 min Scan# 2158
 Delta R.T. 0.00 min
 Lab File: BM000771.D
 Acq: 01 Apr 2015 02:00

Tgt Ion: 240 Resp: 125524
 Ion Ratio Lower Upper
 240 100
 120 16.0 14.9 22.3
 236 29.0 24.2 36.4

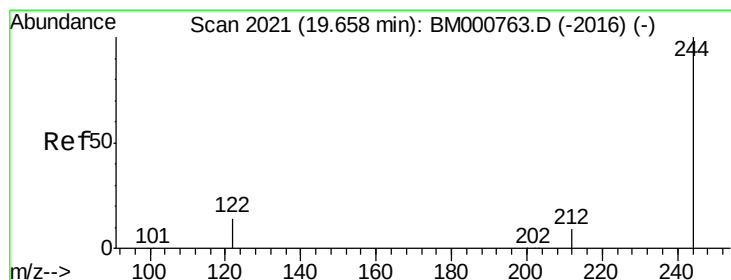
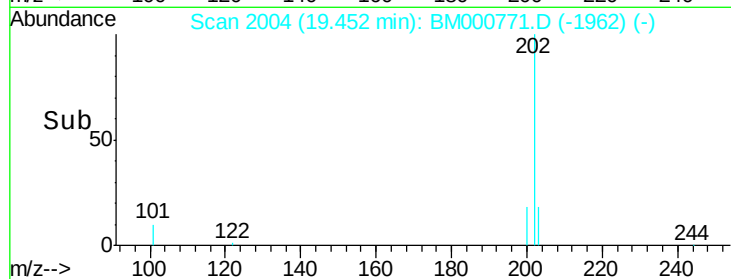
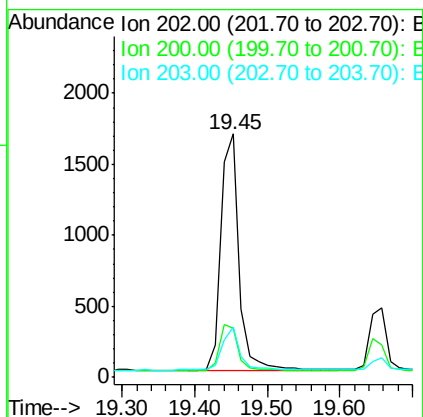
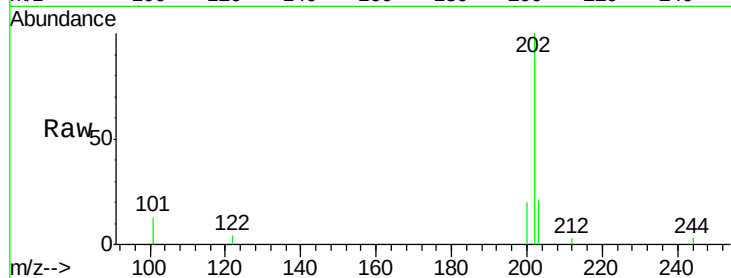




#20
 Pyrene
 Concen: 0.07 ng
 RT: 19.45 min Scan# 2004
 Delta R.T. 0.01 min
 Lab File: BM000771.D
 Acq: 01 Apr 2015 02:00

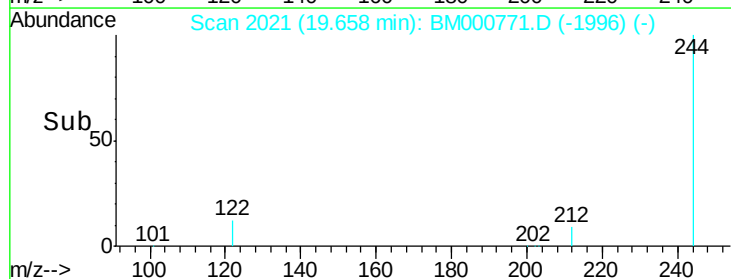
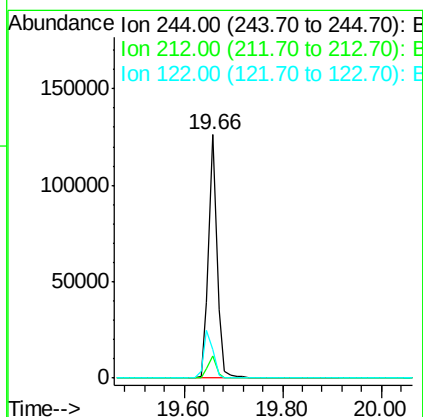
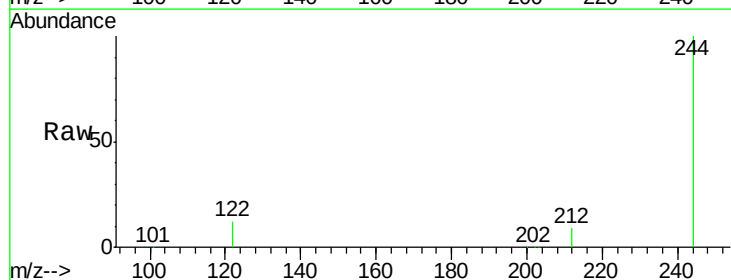
Instrument :
 BNA_M
 ClientSampleId :

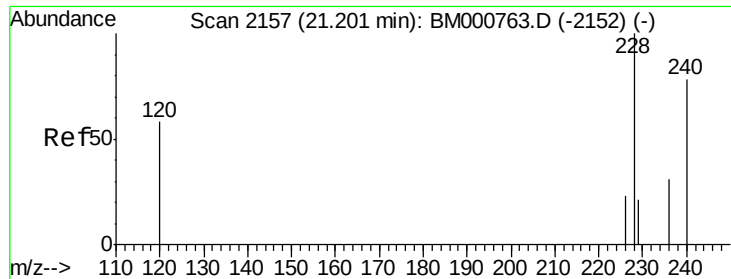
Tgt Ion:202 Resp: 2942
 Ion Ratio Lower Upper
 202 100
 200 19.9 16.2 24.2
 203 17.9 13.9 20.9



#21
 Terphenyl-d14
 Concen: 10.14 ng
 RT: 19.66 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: BM000771.D
 Acq: 01 Apr 2015 02:00

Tgt Ion:244 Resp: 153116
 Ion Ratio Lower Upper
 244 100
 212 8.9 7.8 11.6
 122 11.6 11.8 17.8#





#22

Benzo(a)anthracene

Concen: 0.08 ng

RT: 21.19 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

Instrument :

BNA_M

ClientSampleId :

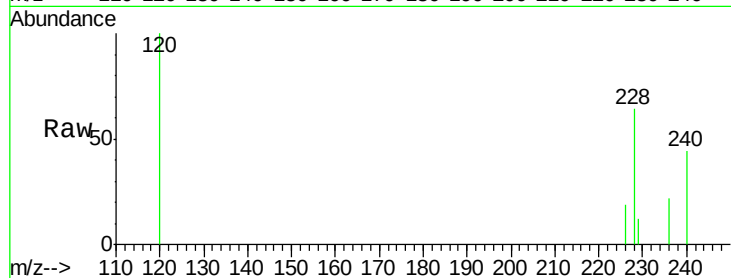
Tgt Ion:228 Resp: 2840

Ion Ratio Lower Upper

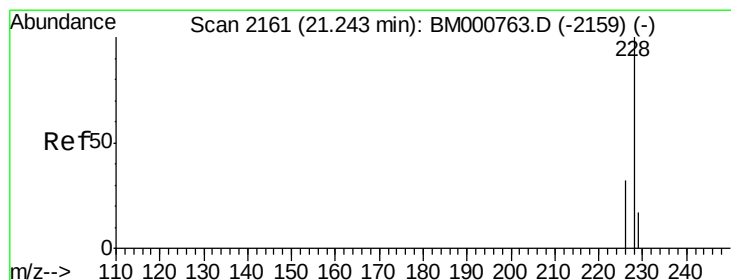
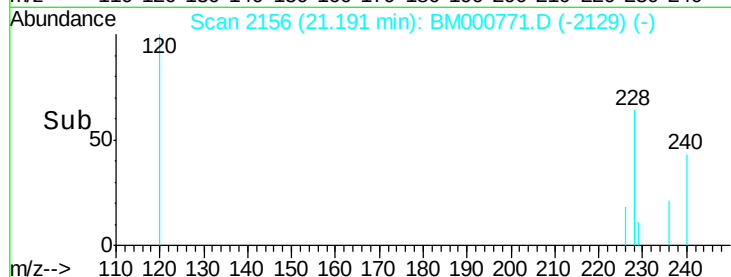
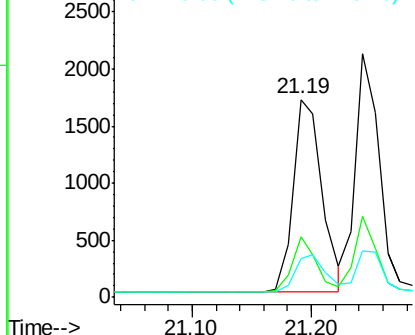
228 100

226 30.4 18.6 27.8#

229 19.5 17.2 25.8



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



#23

Chrysene

Concen: 0.08 ng

RT: 21.24 min Scan# 2161

Delta R.T. 0.00 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

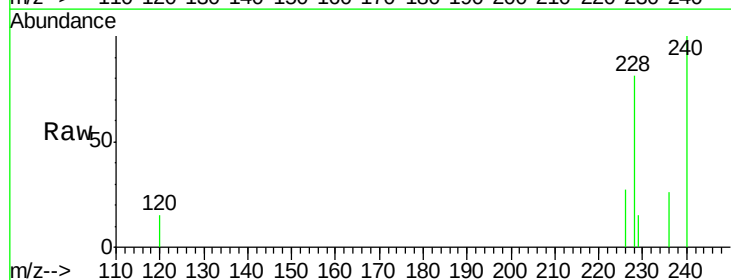
Tgt Ion:228 Resp: 3053

Ion Ratio Lower Upper

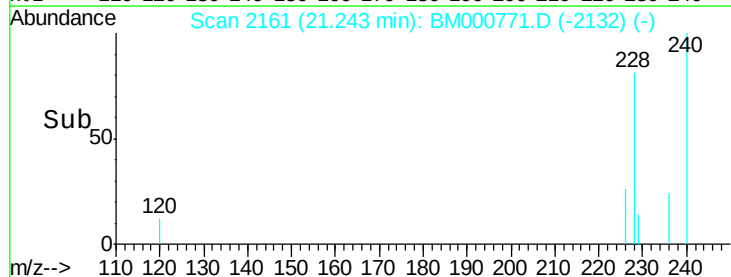
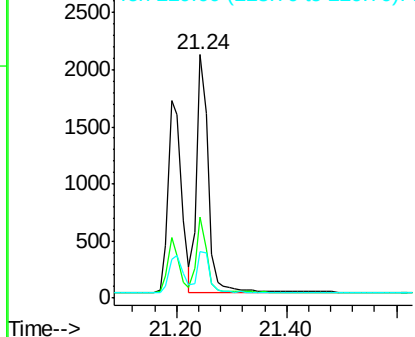
228 100

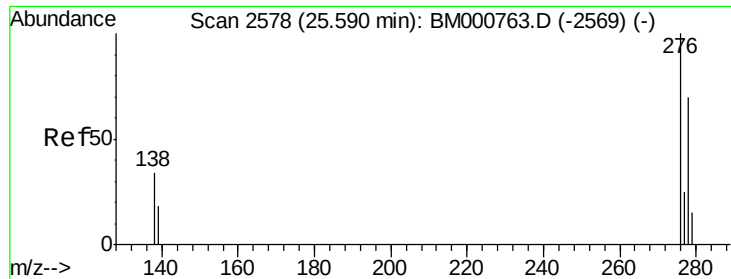
226 33.4 25.8 38.8

229 18.9 13.8 20.6



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

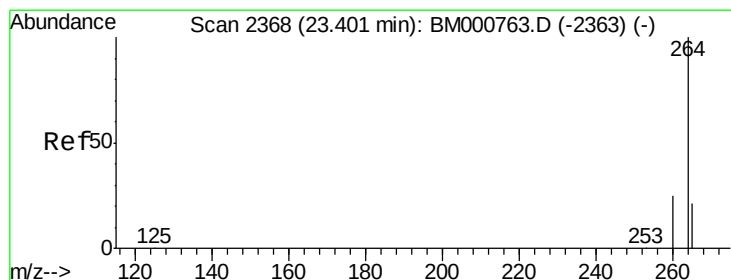
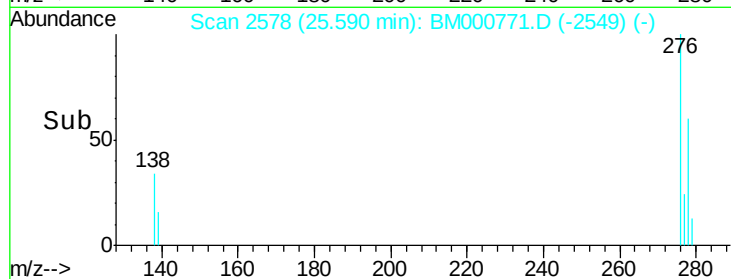
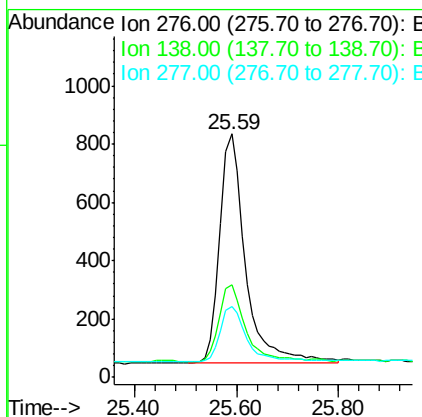
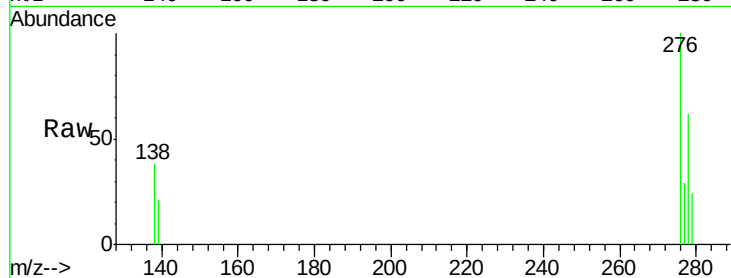




#24
Indeno(1,2,3-cd)pyrene
Concen: 0.07 ng
RT: 25.59 min Scan# 2578
Delta R.T. 0.00 min
Lab File: BM000771.D
Acq: 01 Apr 2015 02:00

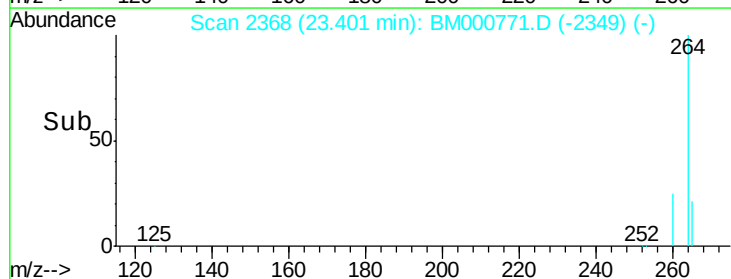
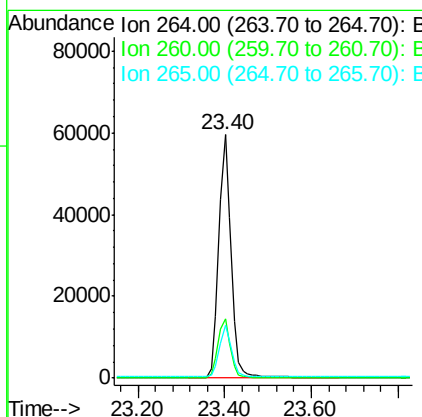
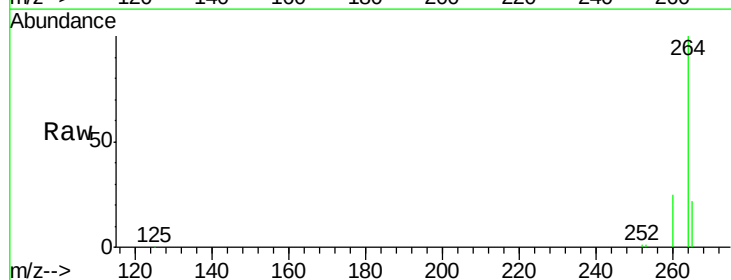
Instrument :
BNA_M
ClientSampleId :

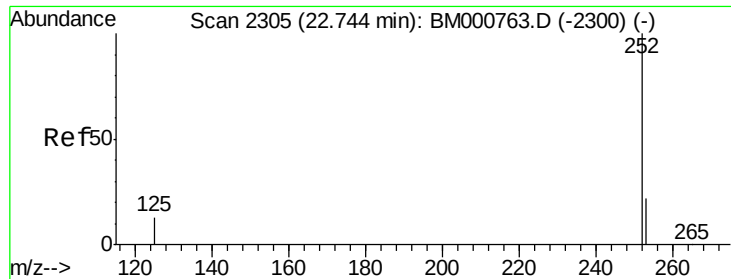
Tgt Ion: 276 Resp: 2774
Ion Ratio Lower Upper
276 100
138 34.4 27.4 41.2
277 24.8 19.7 29.5



#25
Perylene-d12
Concen: 5.00 ng
RT: 23.40 min Scan# 2368
Delta R.T. 0.00 min
Lab File: BM000771.D
Acq: 01 Apr 2015 02:00

Tgt Ion: 264 Resp: 116029
Ion Ratio Lower Upper
264 100
260 24.6 20.1 30.1
265 21.5 17.4 26.0





#26

Benzo(b)fluoranthene

Concen: 0.07 ng

RT: 22.74 min Scan# 2305

Delta R.T. 0.00 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

Instrument :

BNA_M

ClientSampleId :

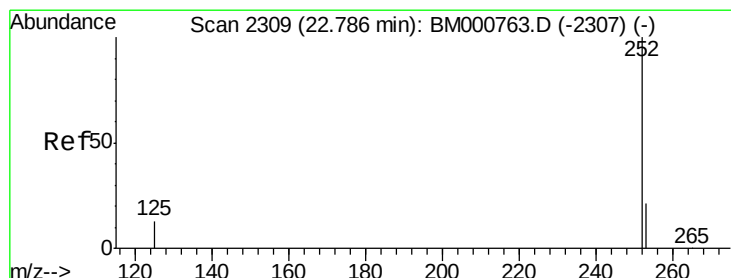
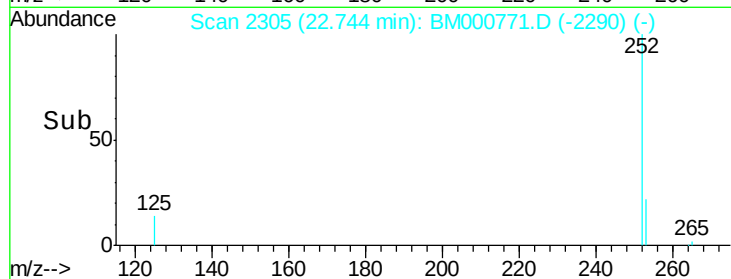
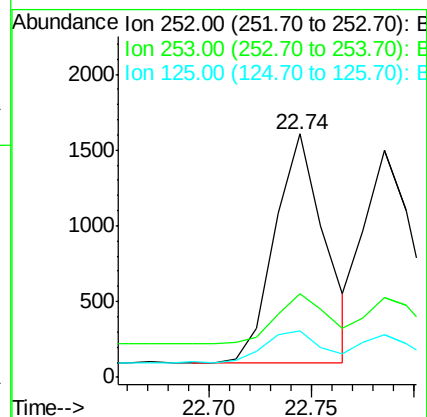
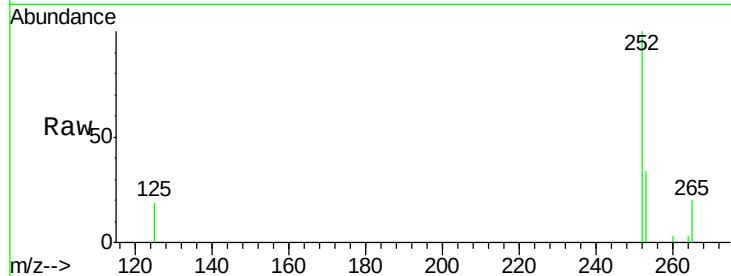
Tgt Ion:252 Resp: 2560

Ion Ratio Lower Upper

252 100

253 34.1 18.5 27.7#

125 19.3 10.6 16.0#



#27

Benzo(k)fluoranthene

Concen: 0.08 ng

RT: 22.79 min Scan# 2309

Delta R.T. 0.00 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

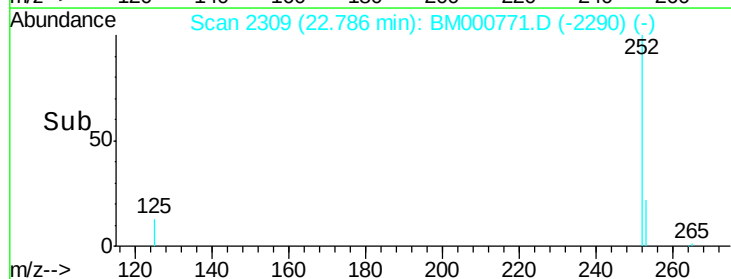
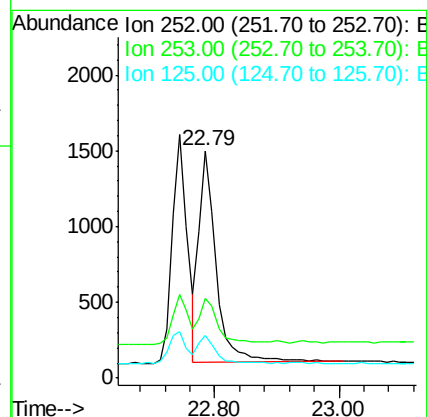
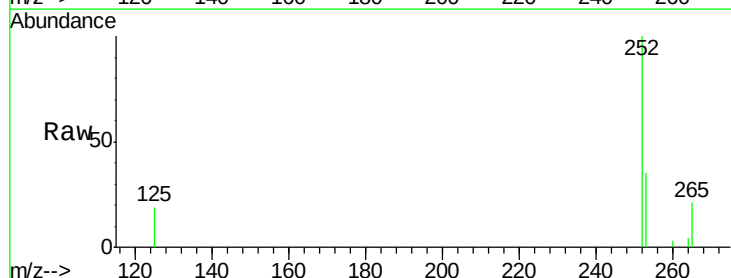
Tgt Ion:252 Resp: 2636

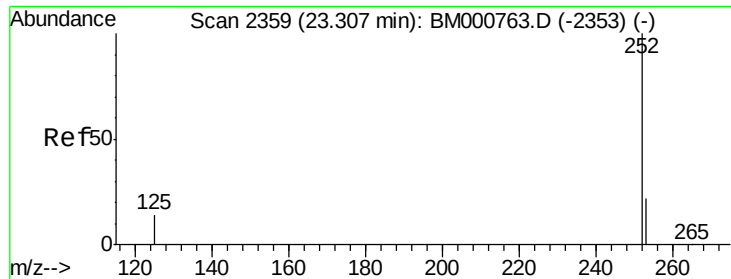
Ion Ratio Lower Upper

252 100

253 35.3 17.9 26.9#

125 18.8 10.8 16.2#





#28

Benzo(a)pyrene

Concen: 0.07 ng

RT: 23.30 min Scan# 2358

Delta R.T. -0.01 min

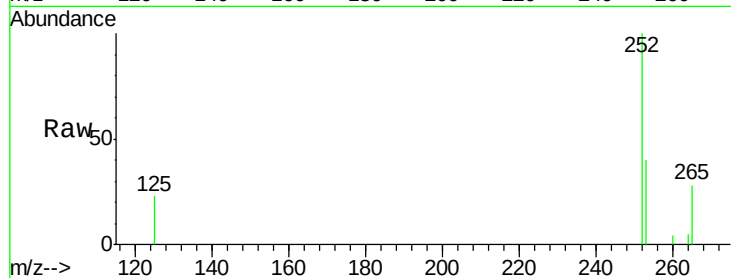
Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

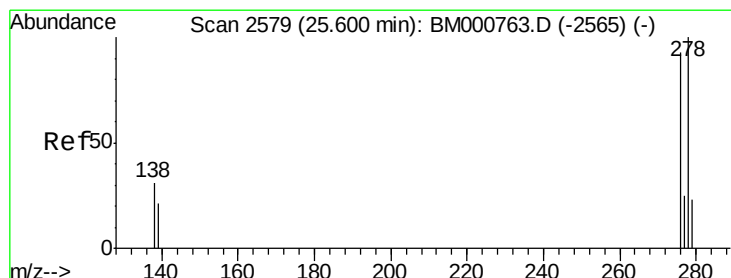
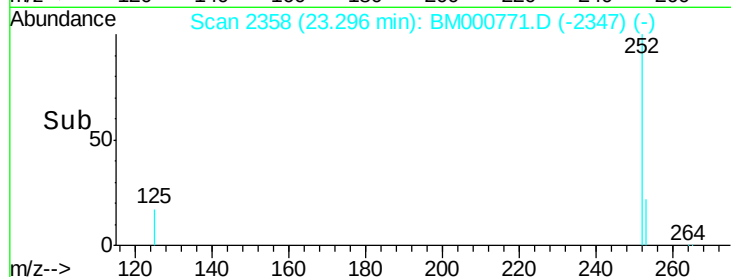
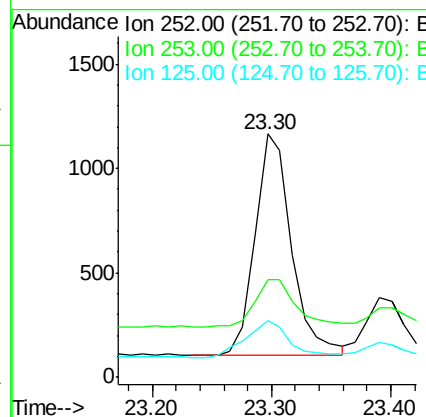
Instrument :

BNA_M

ClientSampleId :



Tgt Ion:	252	Resp:	2272
Ion Ratio	Lower	Upper	
252	100		
253	40.1	19.4	29.2#
125	23.4	11.5	17.3#



#29

Dibenzo(a,h)anthracene

Concen: 0.07 ng

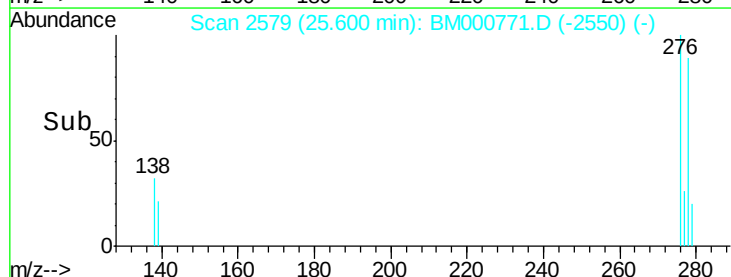
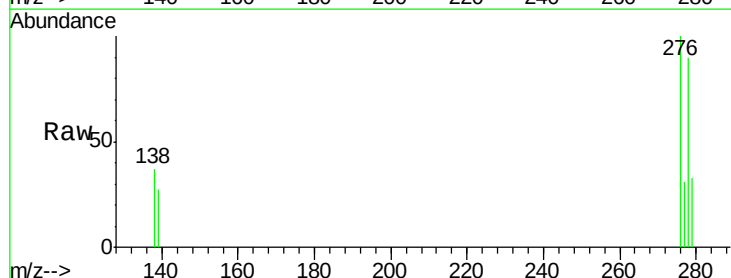
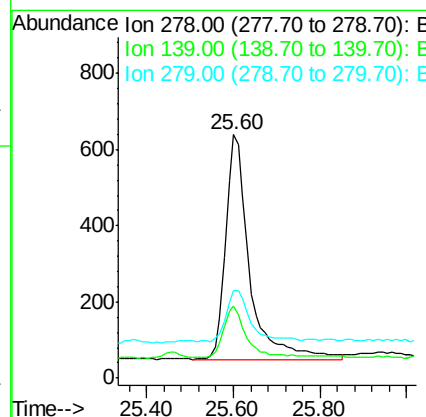
RT: 25.60 min Scan# 2579

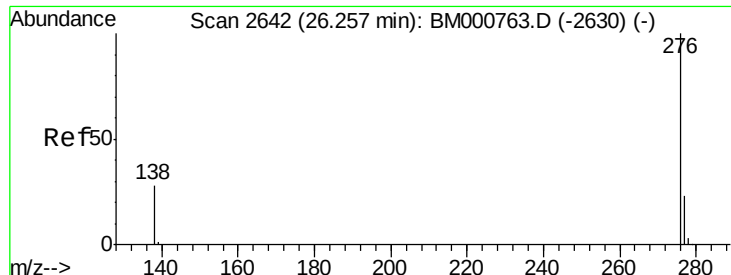
Delta R.T. 0.00 min

Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

Tgt Ion:	278	Resp:	2266
Ion Ratio	Lower	Upper	
278	100		
139	29.7	17.8	26.6#
279	36.2	19.3	28.9#





#30

Benzo(g,h,i)perylene

Concen: 0.08 ng

RT: 26.26 min Scan# 2642

Delta R.T. 0.00 min

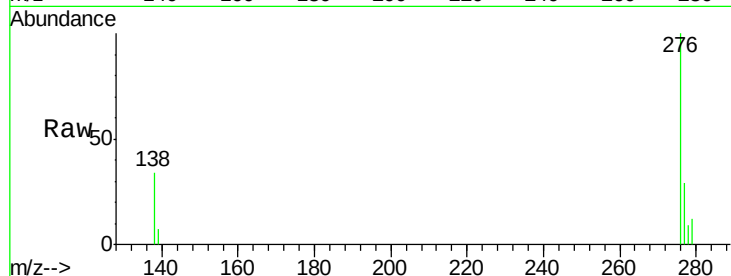
Lab File: BM000771.D

Acq: 01 Apr 2015 02:00

Instrument :

BNA_M

ClientSampleId :



Tgt Ion: 276 Resp: 2537

Ion Ratio Lower Upper

276 100

277 28.6 19.1 28.7

138 33.6 23.1 34.7

Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

1000

800

600

400

200

0

26.20

26.40

Time-->

