

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM040215\
 Data File : BM000808.D
 Acq On : 02 Apr 2015 13:13
 Operator : TP/IZ
 Sample : G1457-22DL 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 RR-PAH-WPDL

Quant Time: Apr 03 02:04:49 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

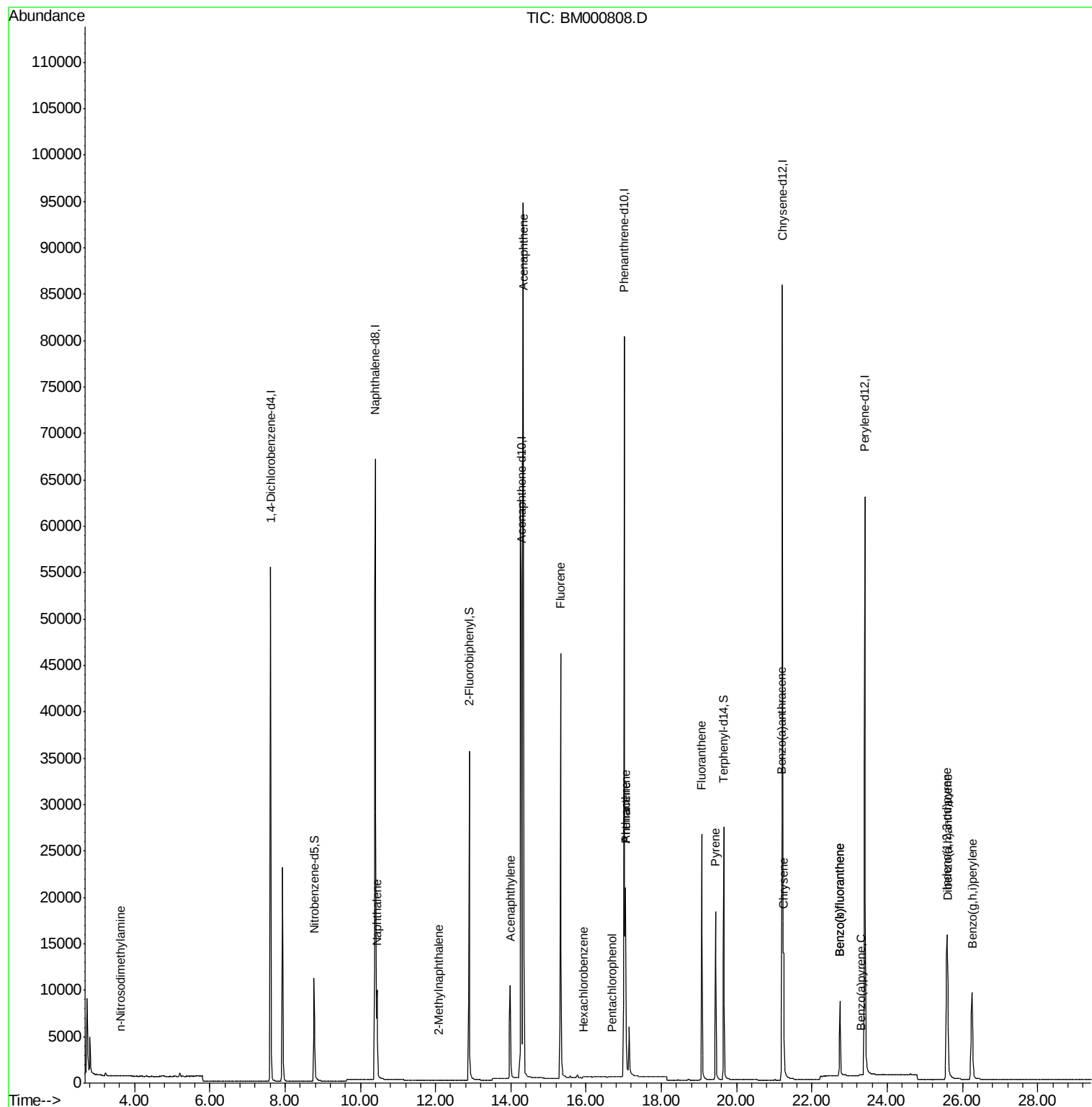
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	27788	5.00	ng	0.00
4) Naphthalene-d8	10.40	136	95026	5.00	ng	0.00
8) Acenaphthene-d10	14.28	164	46951	5.00	ng	0.00
13) Phenanthrene-d10	17.01	188	104693	5.00	ng	0.00
19) Chrysene-d12	21.21	240	87968	5.00	ng	0.00
25) Perylene-d12	23.40	264	80121	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.77	82	11104	2.05	ng	0.00
9) 2-Fluorobiphenyl	12.89	172	38543	2.65	ng	0.00
21) Terphenyl-d14	19.66	244	29119	2.75	ng	0.00
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.64	42	10	0.16	ng	# 1
6) Naphthalene	10.45	128	13761	0.62	ng	99
7) 2-Methylnaphthalene	12.08	142	22	0.00	ng	# 51
10) Acenaphthylene	13.98	152	14491	0.70	ng	99
11) Acenaphthene	14.33	154	50494	3.51	ng	99
12) Fluorene	15.32	166	31652	1.96	ng	100
14) Hexachlorobenzene	15.92	284	293	0.05	ng	# 43
15) Pentachlorophenol	16.68	266	15	0.37	ng	# 61
16) Phenanthrene	17.05	178	21588	0.75	ng	99
17) Anthracene	17.05	178	21588	0.90	ng	99
18) Fluoranthene	19.08	202	26641	0.94	ng	100
20) Pyrene	19.44	202	18280	0.64	ng	99
22) Benzo(a)anthracene	21.20	228	6693	0.27	ng	99
23) Chrysene	21.25	228	12621	0.48	ng	# 90
24) Indeno(1,2,3-cd)pyrene	25.59	276	19330	0.71	ng	100
26) Benzo(b)fluoranthene	22.74	252	10431	0.41	ng	97
27) Benzo(k)fluoranthene	22.74	252	10431	0.43	ng	96
28) Benzo(a)pyrene	23.31	252	93	0.00	ng	# 1
29) Dibenzo(a,h)anthracene	25.60	278	15372	0.72	ng	99
30) Benzo(g,h,i)perylene	26.26	276	19375	0.84	ng	99

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

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Quant Time: Apr 03 02:04:49 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.61 min Scan# 919

Delta R.T. -0.01 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

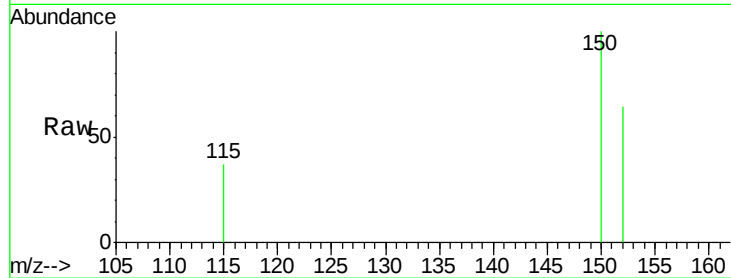
Tgt Ion:152 Resp: 27788

Ion Ratio Lower Upper

152 100

150 156.6 120.8 181.2

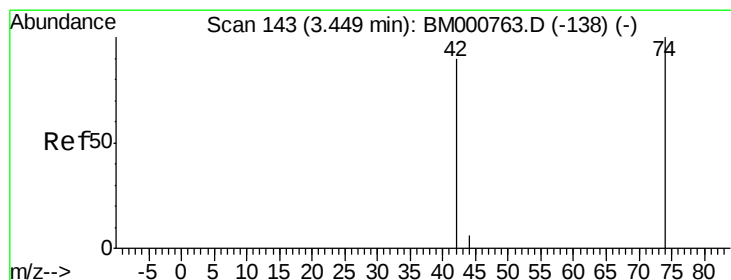
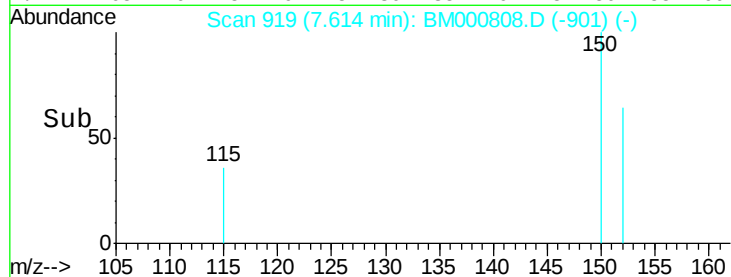
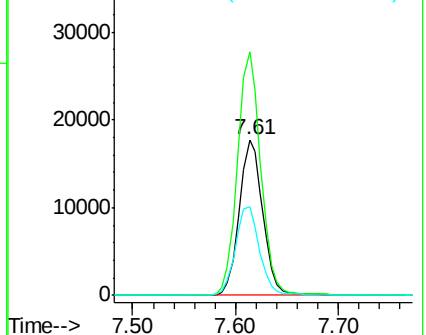
115 57.3 42.7 64.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#3

n-Nitrosodimethylamine

Concen: 0.16 ng

RT: 3.64 min Scan# 179

Delta R.T. 0.19 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

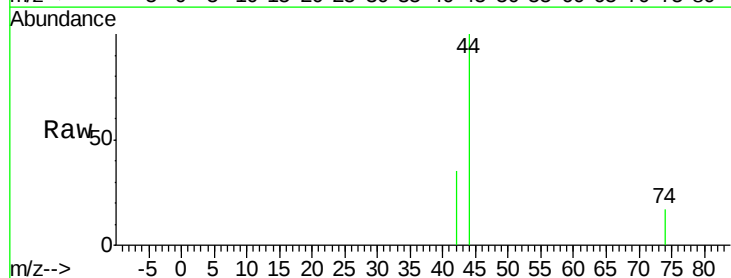
Tgt Ion: 42 Resp: 10

Ion Ratio Lower Upper

42 100

74 0.0 93.6 140.4#

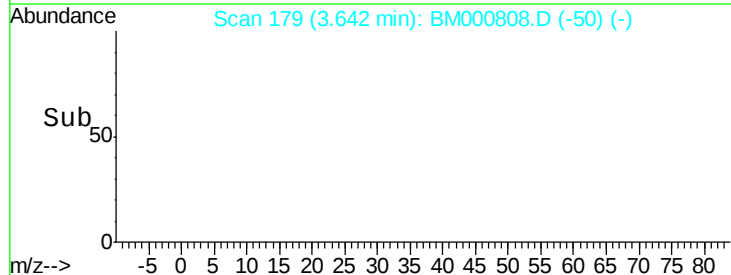
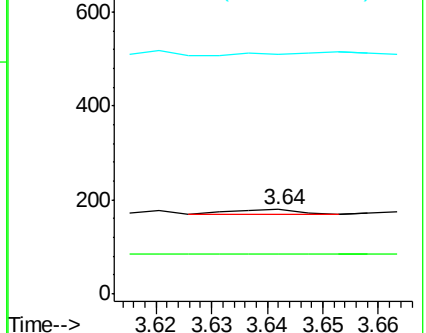
44 130.0 6.3 9.5#



Abundance Ion 42.00 (41.70 to 42.70): BM0

Ion 74.00 (73.70 to 74.70): BM0

Ion 44.00 (43.70 to 44.70): BM0





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.40 min Scan# 1359

Delta R.T. -0.00 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

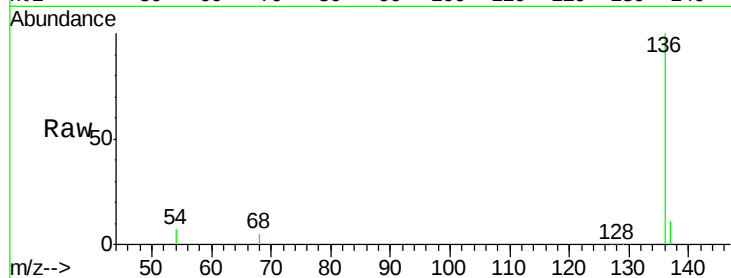
Tgt Ion:136 Resp: 95026

Ion Ratio Lower Upper

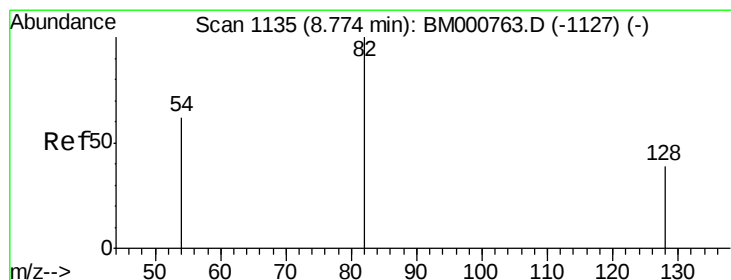
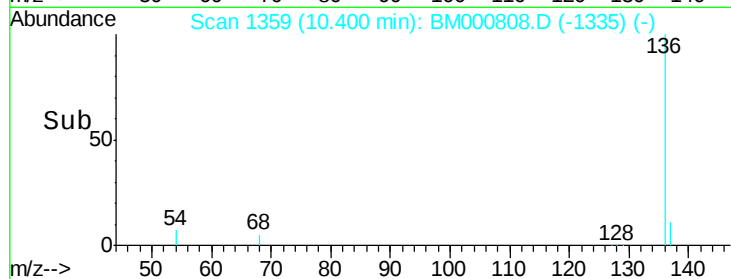
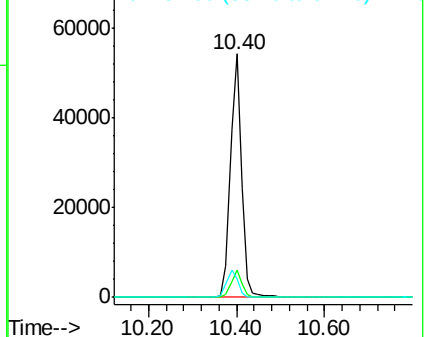
136 100

137 11.0 8.6 12.8

54 7.4 7.0 10.6



Abundance Ion 136.00 (135.70 to 136.70): B
Ion 137.00 (136.70 to 137.70): B
Ion 54.00 (53.70 to 54.70): B



#5

Nitrobenzene-d5

Concen: 2.05 ng

RT: 8.77 min Scan# 1135

Delta R.T. 0.00 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

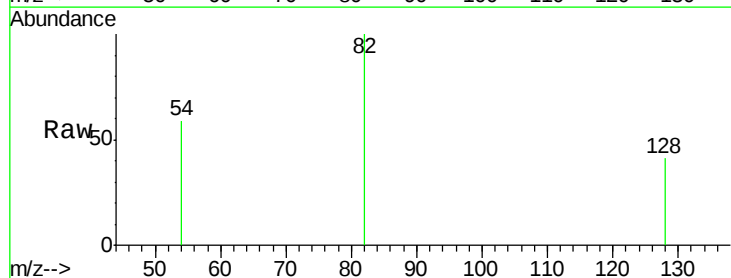
Tgt Ion: 82 Resp: 11104

Ion Ratio Lower Upper

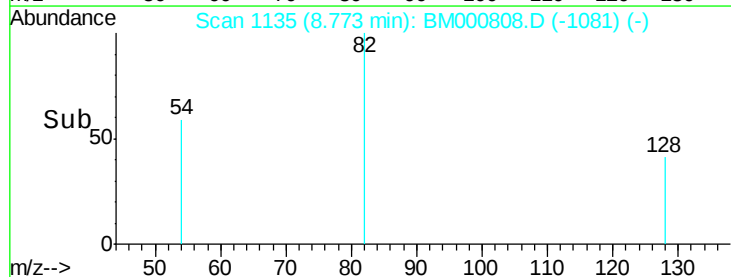
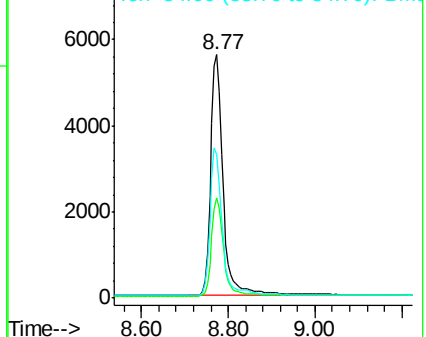
82 100

128 41.0 32.2 48.2

54 59.2 50.2 75.4



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





#6

Naphthalene

Concen: 0.62 ng

RT: 10.45 min Scan# 1363

Delta R.T. -0.00 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

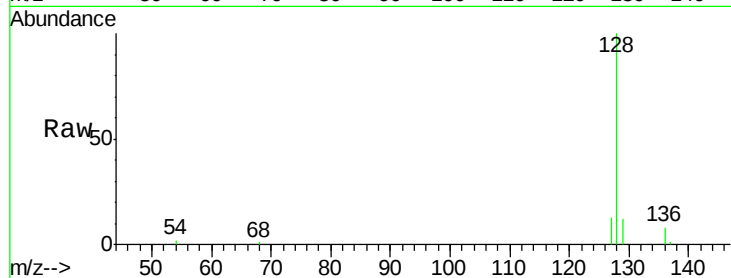
Tgt Ion:128 Resp: 13761

Ion Ratio Lower Upper

128 100

129 11.7 8.9 13.3

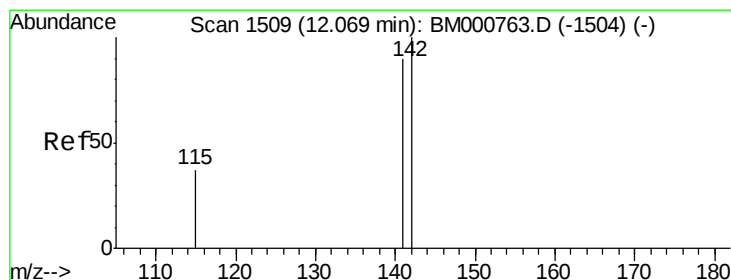
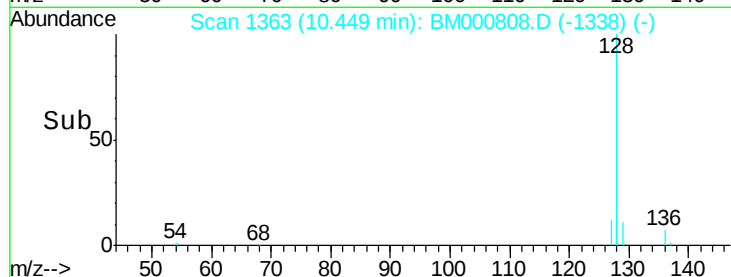
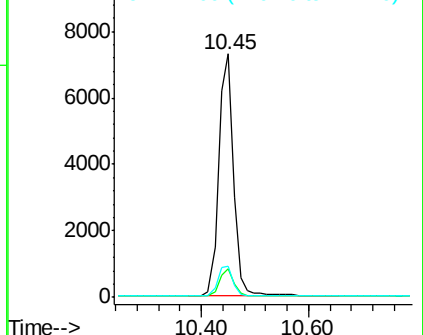
127 12.5 10.0 15.0



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#7

2-Methylnaphthalene

Concen: 0.00 ng

RT: 12.08 min Scan# 1510

Delta R.T. 0.01 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

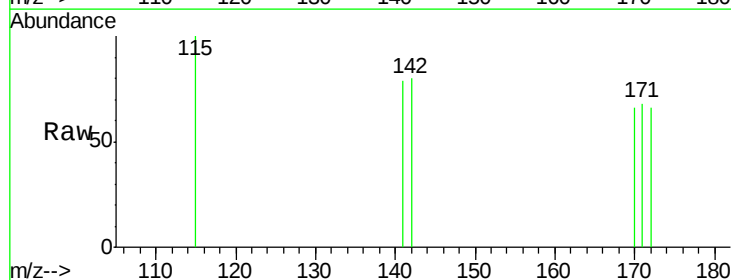
Tgt Ion:142 Resp: 22

Ion Ratio Lower Upper

142 100

141 98.2 72.3 108.5

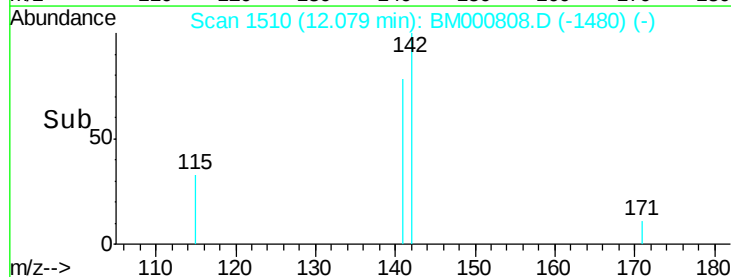
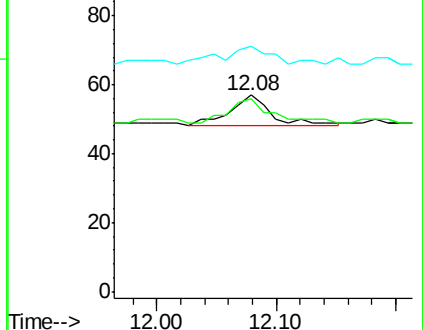
115 124.6 29.5 44.3#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.28 min Scan# 1692

Delta R.T. -0.00 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

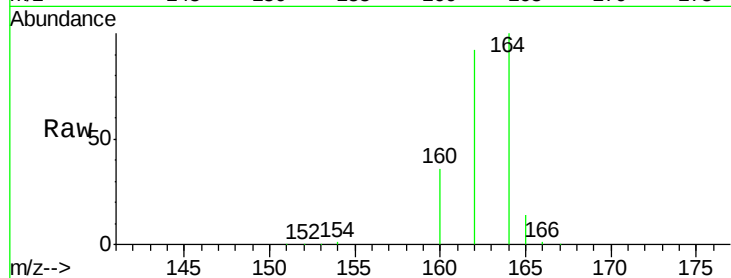
Tgt Ion:164 Resp: 46951

Ion Ratio Lower Upper

164 100

162 91.7 75.4 113.2

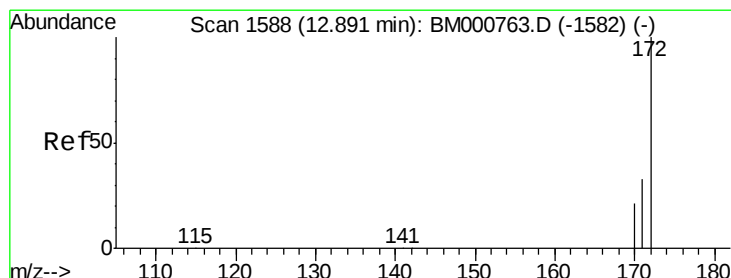
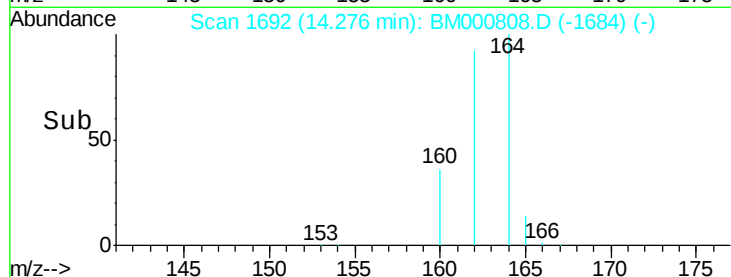
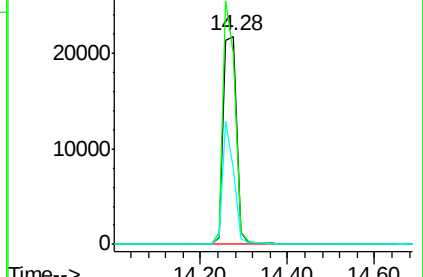
160 36.2 30.8 46.2



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: 2.65 ng

RT: 12.89 min Scan# 1588

Delta R.T. -0.00 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

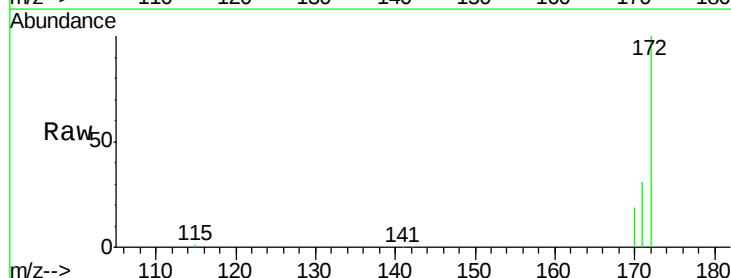
Tgt Ion:172 Resp: 38543

Ion Ratio Lower Upper

172 100

171 31.4 26.6 39.8

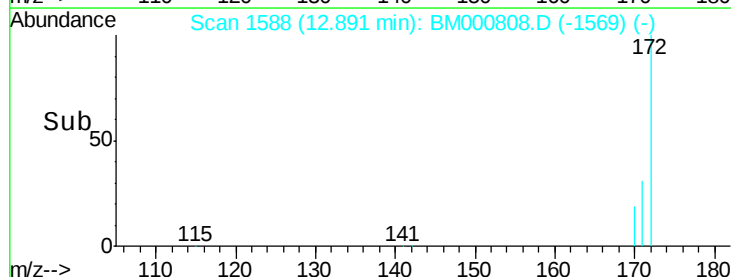
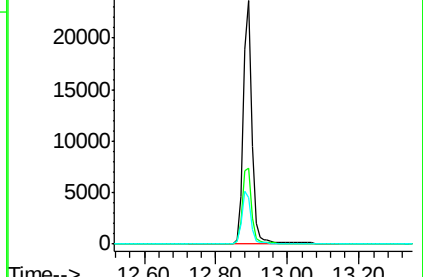
170 19.0 17.1 25.7



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: 0.70 ng

RT: 13.98 min Scan# 1675

Delta R.T. -0.00 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

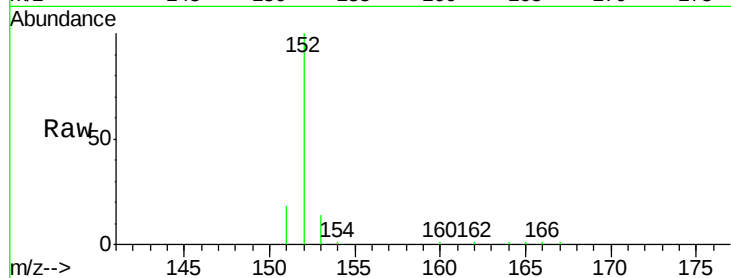
Tgt Ion:152 Resp: 14491

Ion Ratio Lower Upper

152 100

151 19.2 15.1 22.7

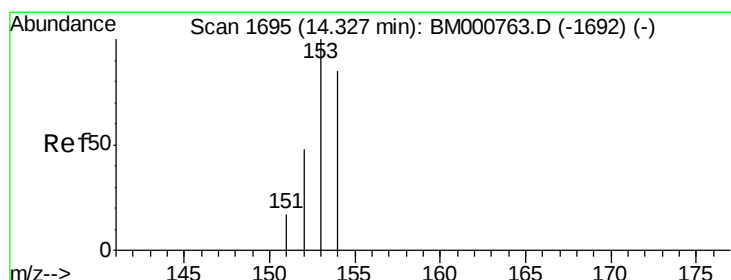
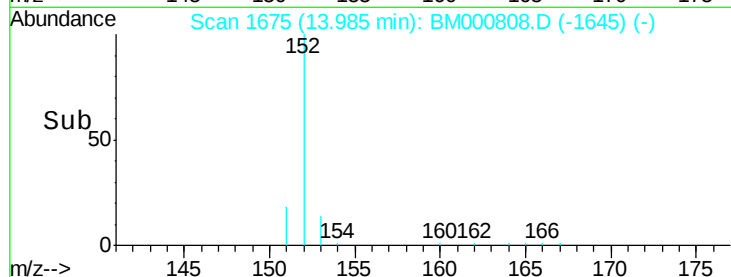
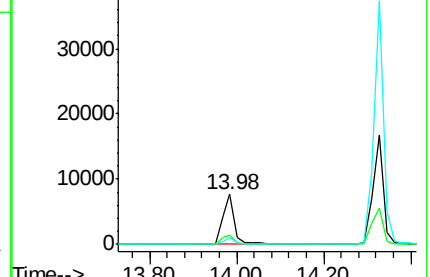
153 13.0 10.2 15.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#11

Acenaphthene

Concen: 3.51 ng

RT: 14.33 min Scan# 1695

Delta R.T. -0.00 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

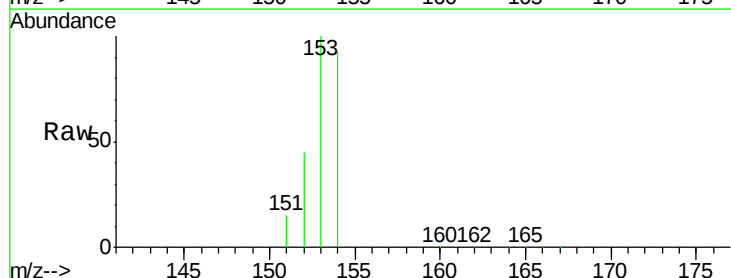
Tgt Ion:154 Resp: 50494

Ion Ratio Lower Upper

154 100

153 110.7 87.3 130.9

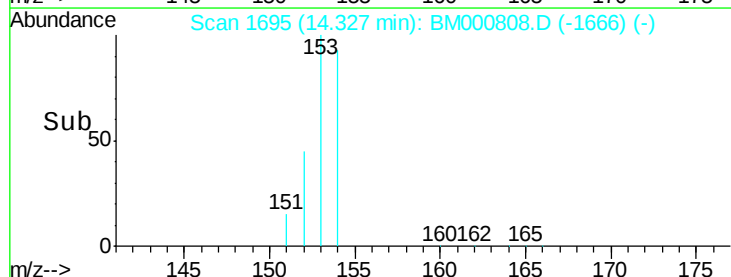
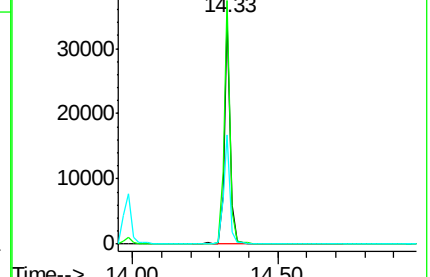
152 53.2 43.0 64.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#12

Fluorene

Concen: 1.96 ng

RT: 15.32 min Scan# 1753

Delta R.T. -0.00 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

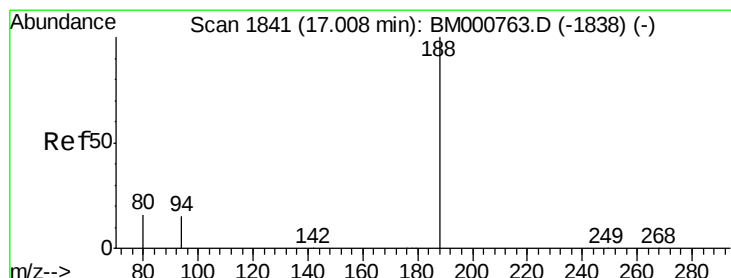
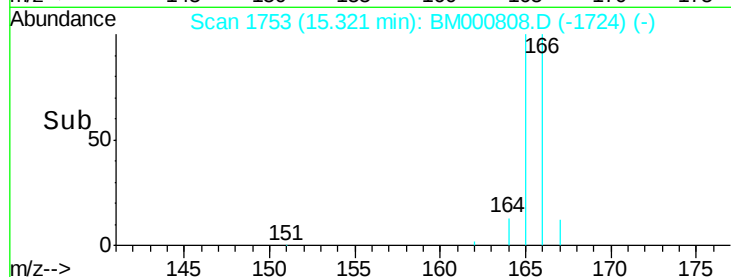
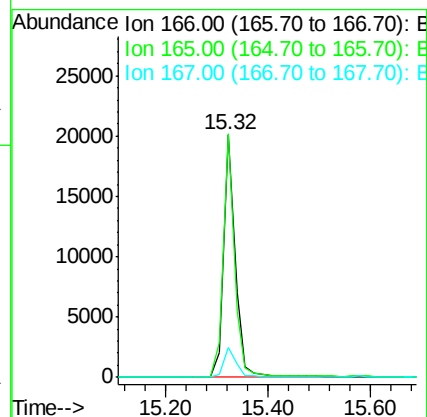
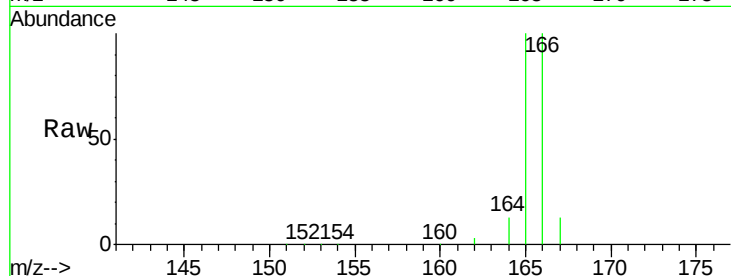
Tgt Ion:166 Resp: 31652

Ion Ratio Lower Upper

166 100

165 97.4 78.2 117.2

167 13.1 10.7 16.1



#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.01 min Scan# 1841

Delta R.T. -0.00 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

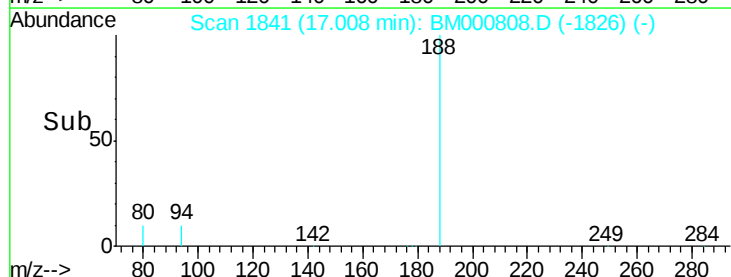
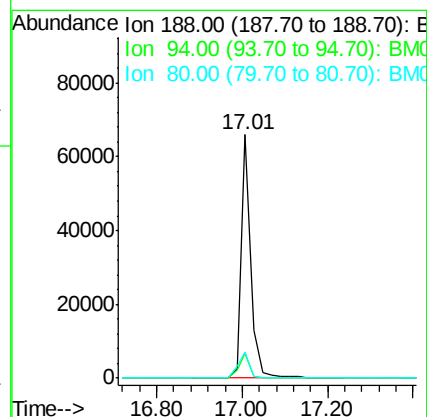
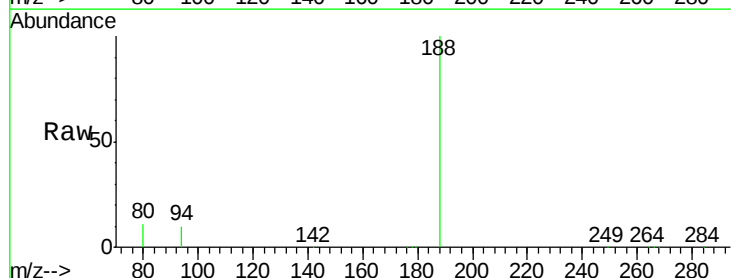
Tgt Ion:188 Resp: 104693

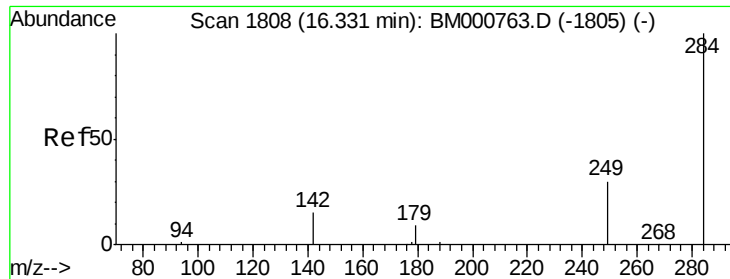
Ion Ratio Lower Upper

188 100

94 10.3 12.0 18.0#

80 10.5 12.8 19.2#

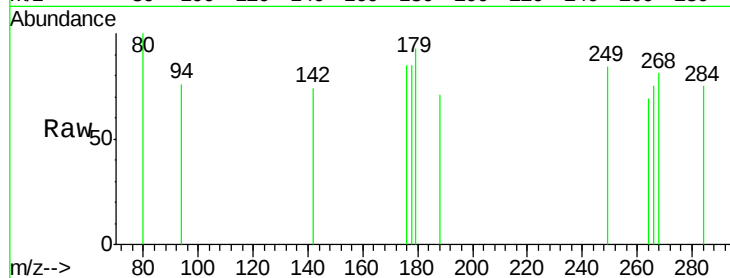




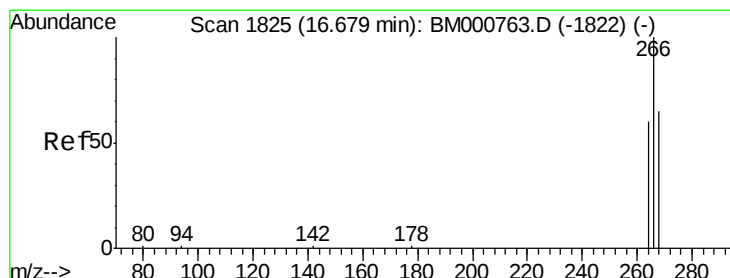
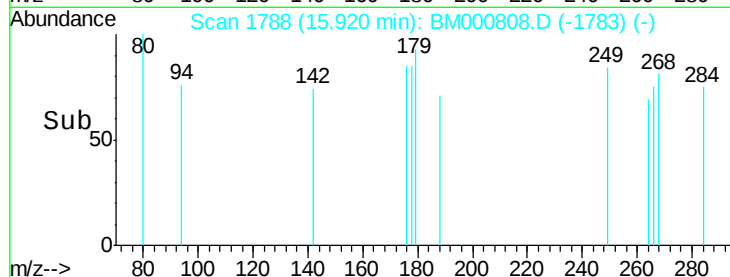
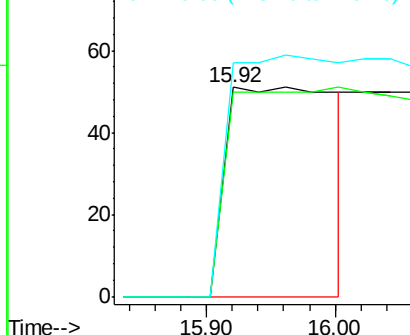
#14
Hexachlorobenzene
Concen: 0.05 ng
RT: 15.92 min Scan# 1788
Delta R.T. -0.41 min
Lab File: BM000808.D
Acq: 02 Apr 2015 13:13

Instrument :
BNA_M
ClientSampleId :
RR-PAH-WPDL

Tgt Ion: 284 Resp: 293
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 0.0 25.2 37.8#

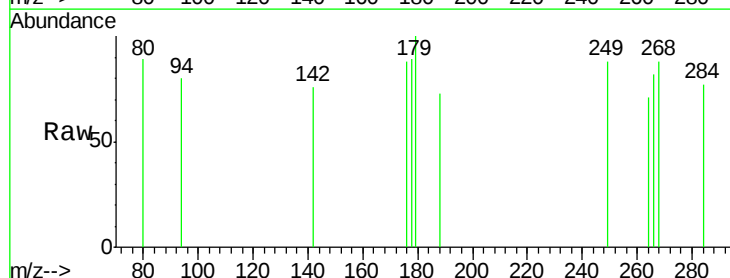


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

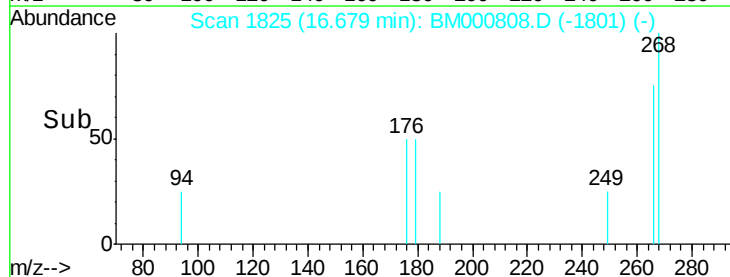
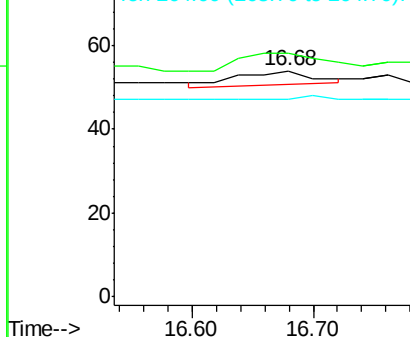


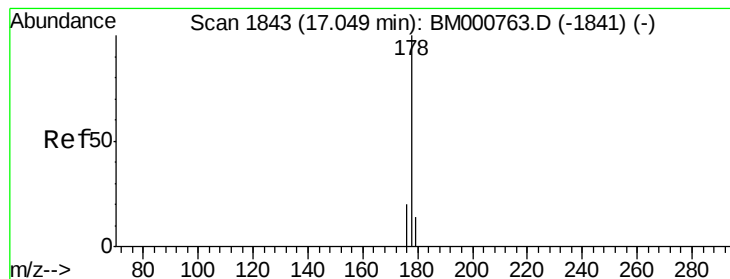
#15
Pentachlorophenol
Concen: 0.37 ng
RT: 16.68 min Scan# 1825
Delta R.T. 0.00 min
Lab File: BM000808.D
Acq: 02 Apr 2015 13:13

Tgt Ion: 266 Resp: 15
Ion Ratio Lower Upper
266 100
268 107.4 55.0 82.6#
264 87.0 51.0 76.4#



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





#16

Phenanthrene

Concen: 0.75 ng

RT: 17.05 min Scan# 1843

Delta R.T. -0.00 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

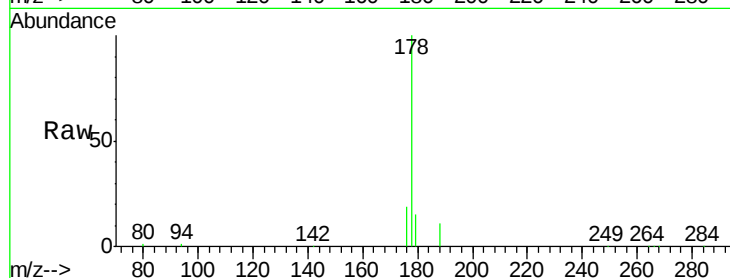
Tgt Ion:178 Resp: 21588

Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

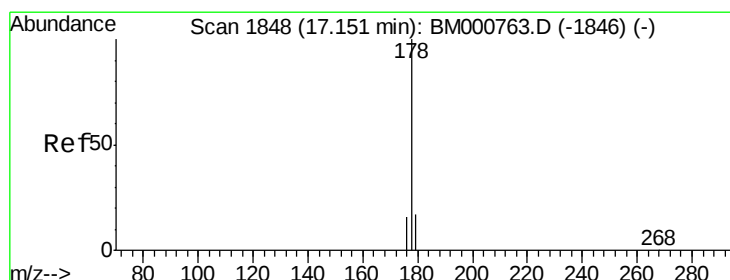
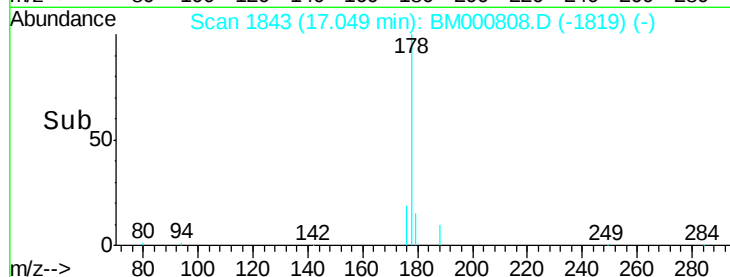
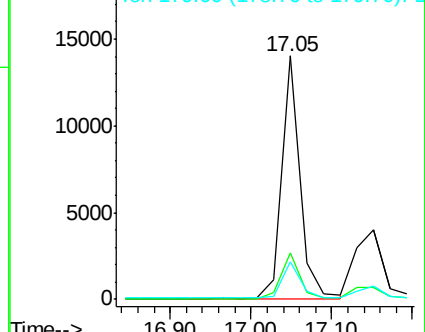
179 15.4 12.2 18.2



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: 0.90 ng

RT: 17.05 min Scan# 1843

Delta R.T. -0.10 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

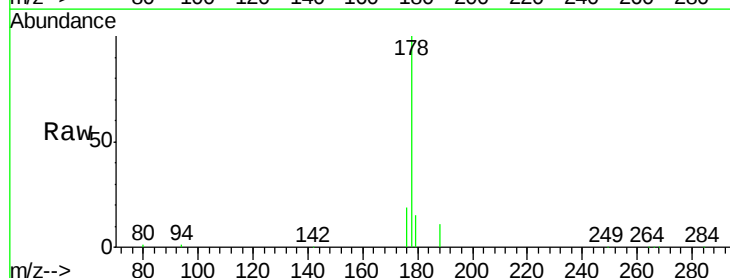
Tgt Ion:178 Resp: 21588

Ion Ratio Lower Upper

178 100

176 18.8 14.6 22.0

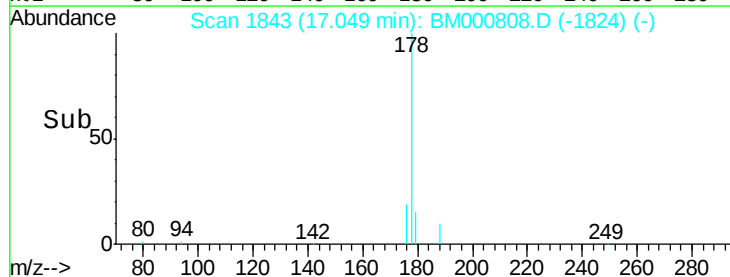
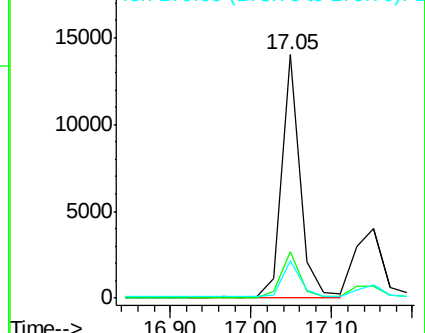
179 15.4 12.2 18.4



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

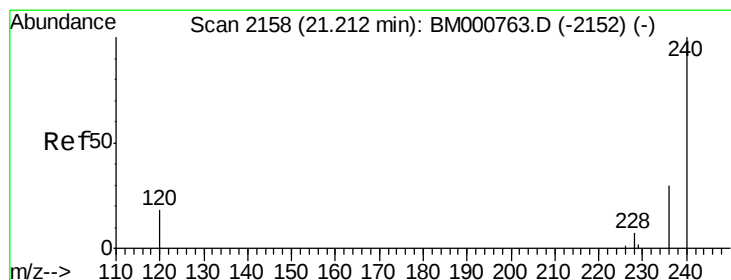
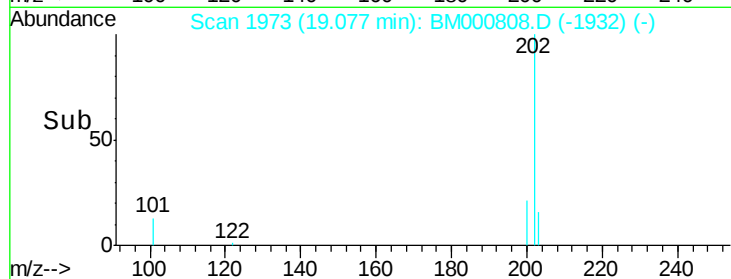
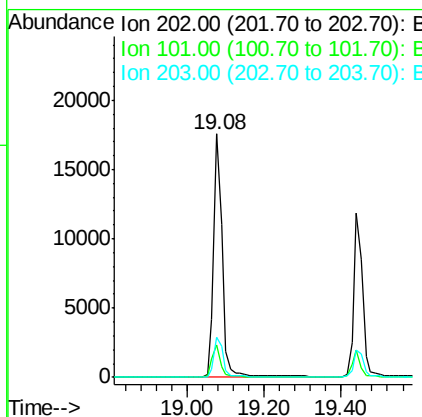
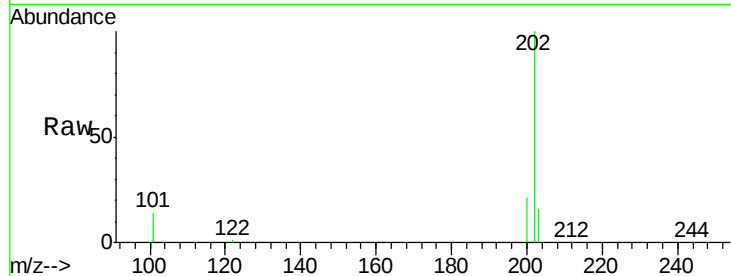




#18
 Fluoranthene
 Concen: 0.94 ng
 RT: 19.08 min Scan# 1973
 Delta R.T. -0.00 min
 Lab File: BM000808.D
 Acq: 02 Apr 2015 13:13

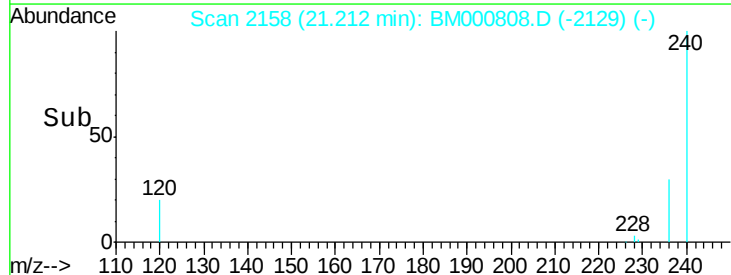
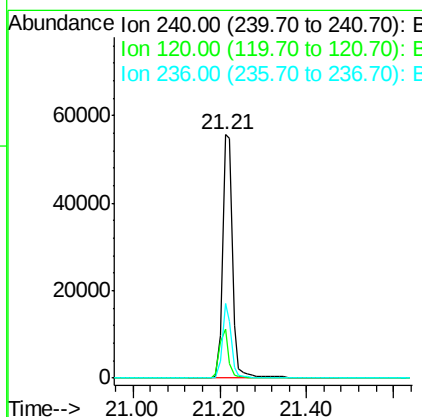
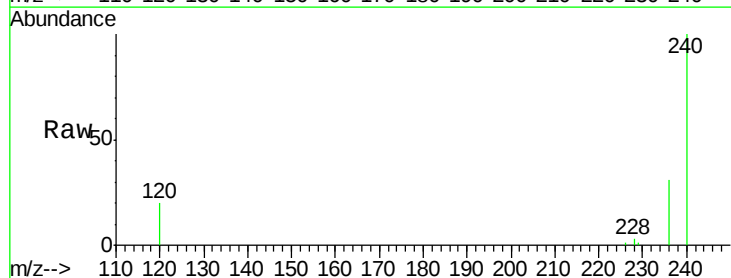
Instrument :
 BNA_M
 ClientSampleId :
 RR-PAH-WPDL

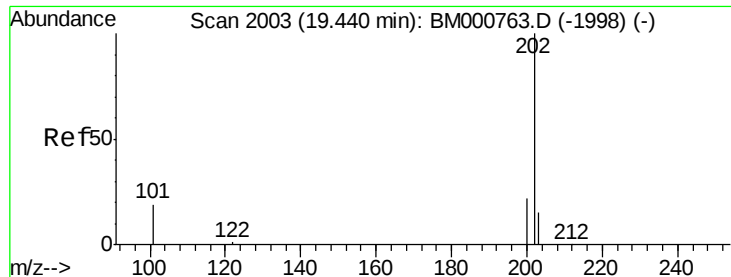
Tgt Ion: 202 Resp: 26641
 Ion Ratio Lower Upper
 202 100
 101 13.0 10.5 15.7
 203 17.2 13.8 20.8



#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.21 min Scan# 2158
 Delta R.T. -0.00 min
 Lab File: BM000808.D
 Acq: 02 Apr 2015 13:13

Tgt Ion: 240 Resp: 87968
 Ion Ratio Lower Upper
 240 100
 120 20.0 14.9 22.3
 236 30.5 24.2 36.4

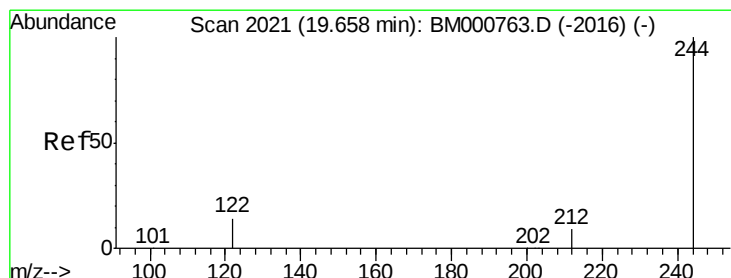
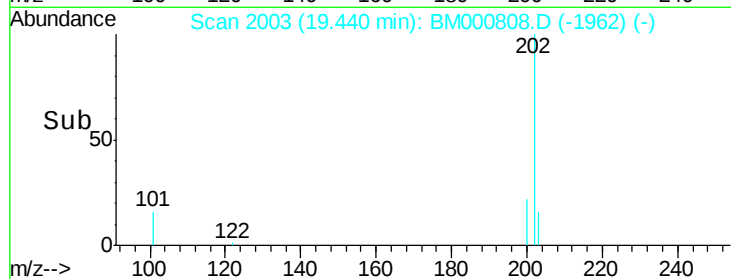
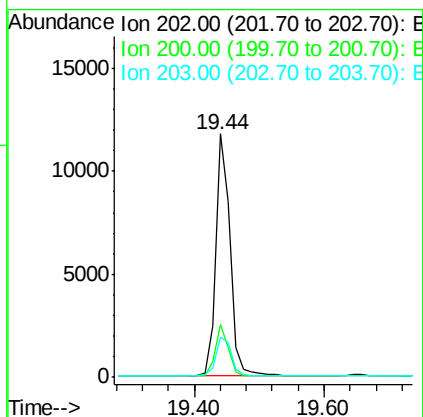
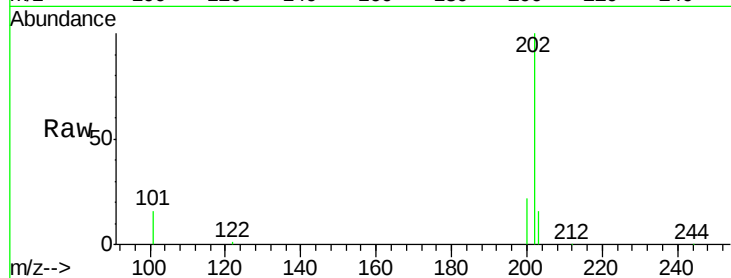




#20
 Pyrene
 Concen: 0.64 ng
 RT: 19.44 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: BM000808.D
 Acq: 02 Apr 2015 13:13

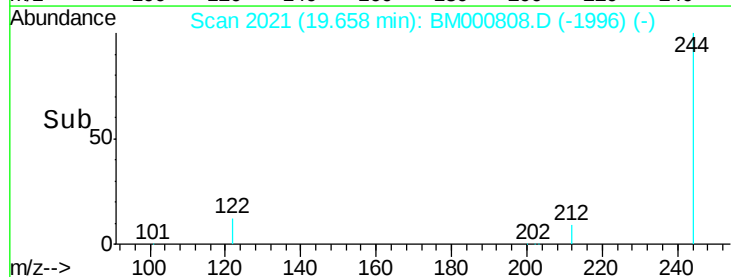
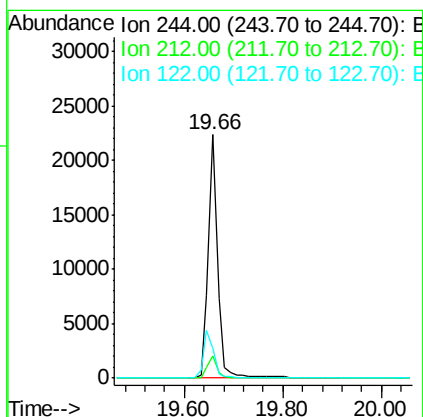
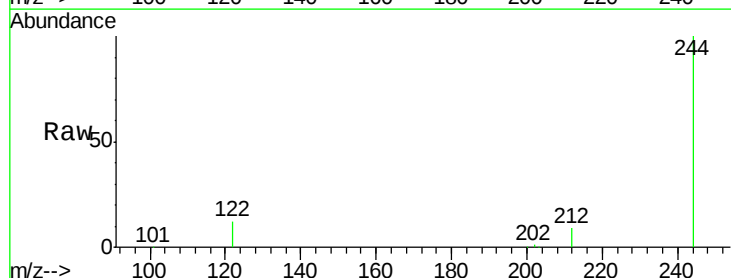
Instrument :
 BNA_M
 ClientSampleId :
 RR-PAH-WPDL

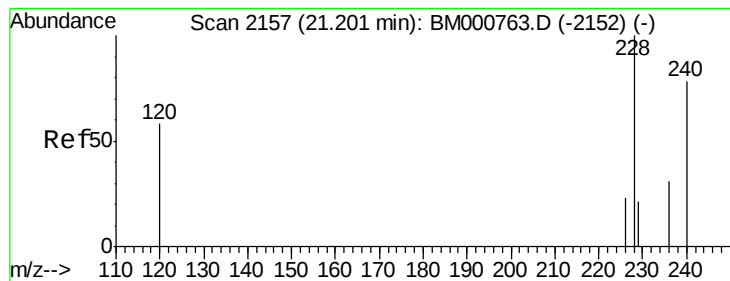
Tgt Ion: 202 Resp: 18280
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.2 24.2
 203 18.0 13.9 20.9



#21
 Terphenyl-d14
 Concen: 2.75 ng
 RT: 19.66 min Scan# 2021
 Delta R.T. -0.00 min
 Lab File: BM000808.D
 Acq: 02 Apr 2015 13:13

Tgt Ion: 244 Resp: 29119
 Ion Ratio Lower Upper
 244 100
 212 9.0 7.8 11.6
 122 12.4 11.8 17.8





#22

Benzo(a)anthracene

Concen: 0.27 ng

RT: 21.20 min Scan# 2157

Delta R.T. -0.00 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

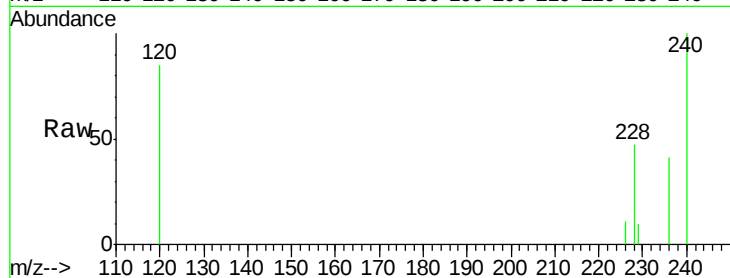
Tgt Ion:228 Resp: 6693

Ion Ratio Lower Upper

228 100

226 24.3 18.6 27.8

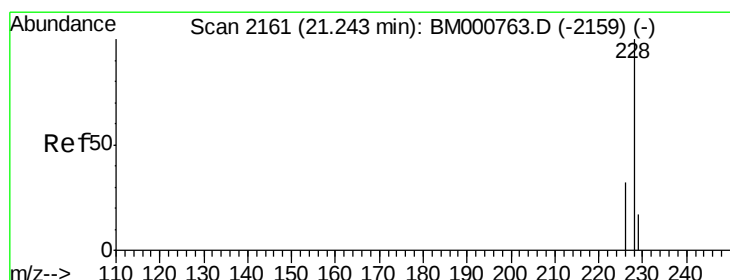
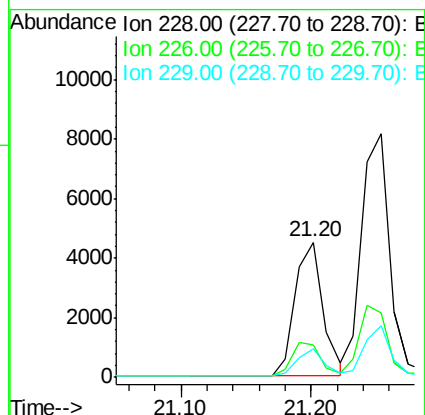
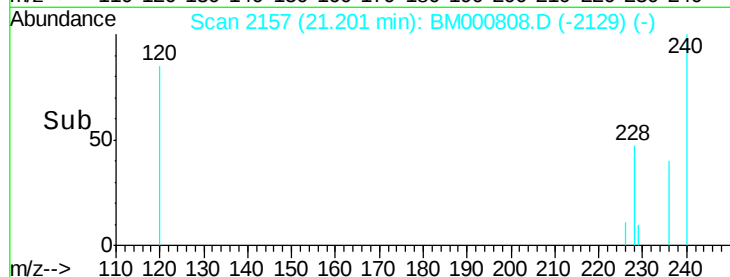
229 21.4 17.2 25.8



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: 0.48 ng

RT: 21.25 min Scan# 2162

Delta R.T. 0.01 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

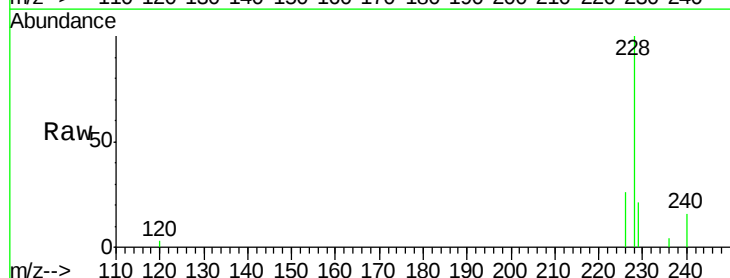
Tgt Ion:228 Resp: 12621

Ion Ratio Lower Upper

228 100

226 26.5 25.8 38.8

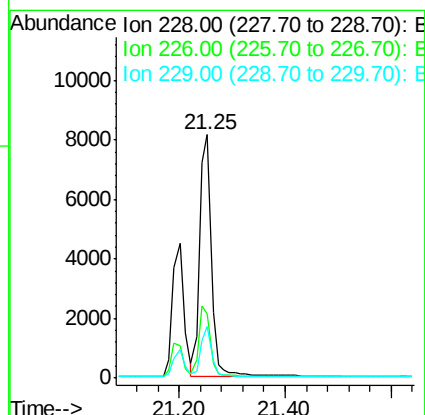
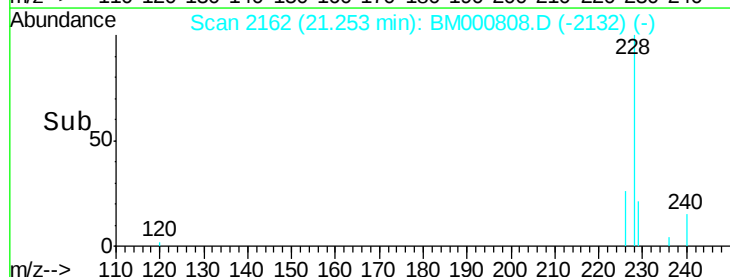
229 21.2 13.8 20.6#



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

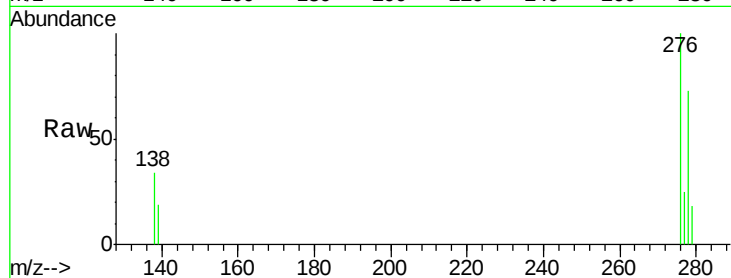




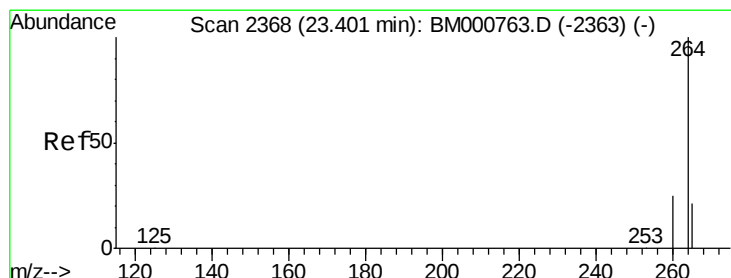
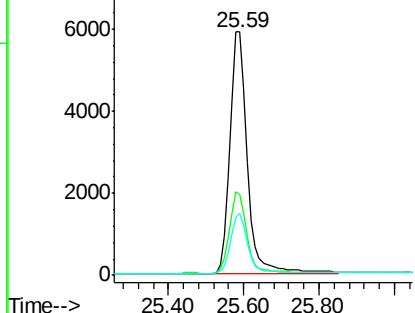
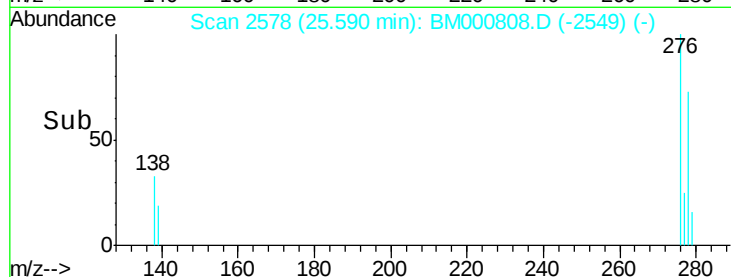
#24
 Indeno(1,2,3-cd)pyrene
 Concen: 0.71 ng
 RT: 25.59 min Scan# 2578
 Delta R.T. -0.00 min
 Lab File: BM000808.D
 Acq: 02 Apr 2015 13:13

Instrument :
 BNA_M
 ClientSampleId :
 RR-PAH-WPDL

Tgt Ion: 276 Resp: 19330
 Ion Ratio Lower Upper
 276 100
 138 34.0 27.4 41.2
 277 24.4 19.7 29.5

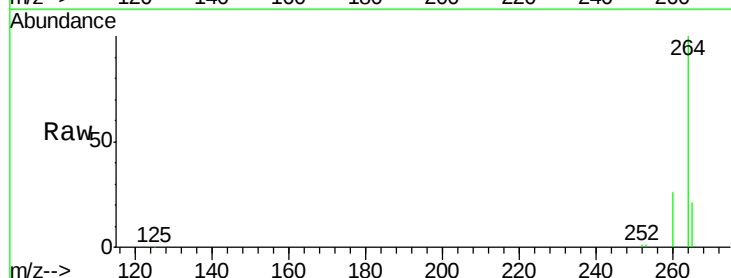


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

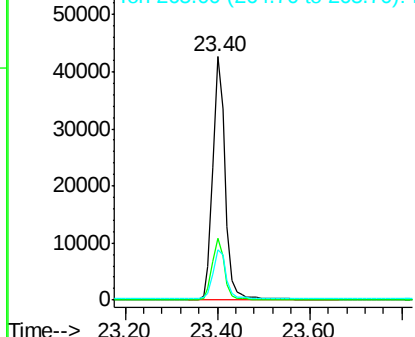
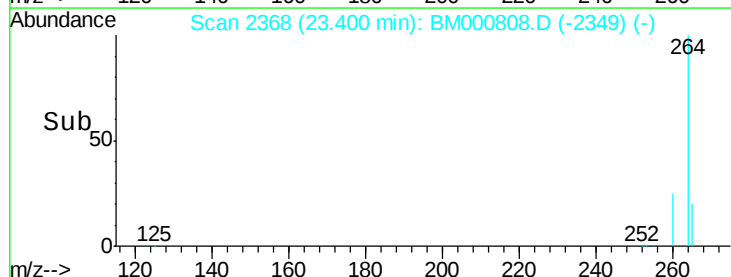


#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.40 min Scan# 2368
 Delta R.T. -0.00 min
 Lab File: BM000808.D
 Acq: 02 Apr 2015 13:13

Tgt Ion: 264 Resp: 80121
 Ion Ratio Lower Upper
 264 100
 260 25.5 20.1 30.1
 265 20.9 17.4 26.0



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

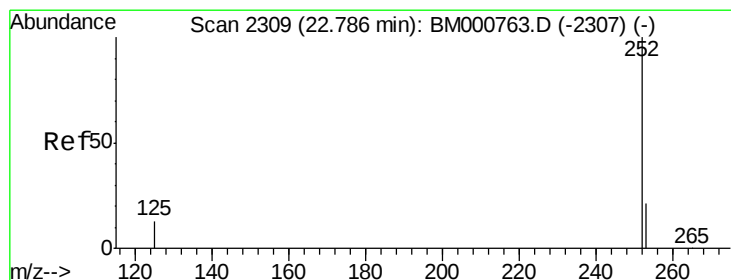
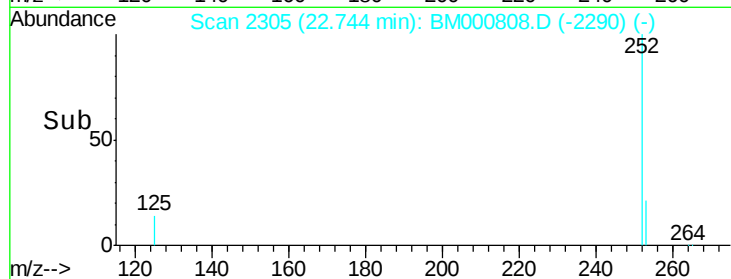
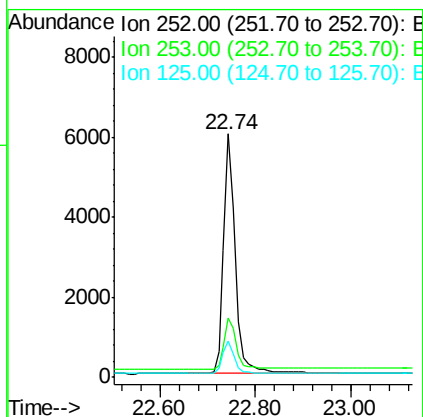
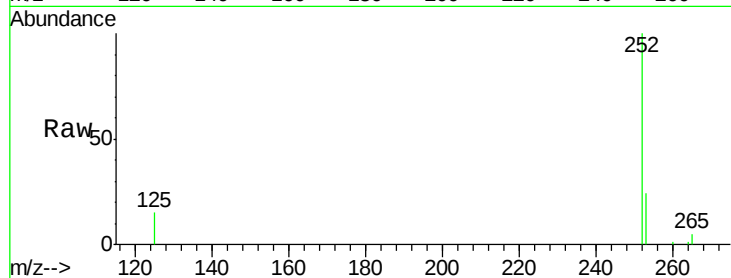




#26
Benzo(b)fluoranthene
Concen: 0.41 ng
RT: 22.74 min Scan# 2305
Delta R.T. -0.00 min
Lab File: BM000808.D
Acq: 02 Apr 2015 13:13

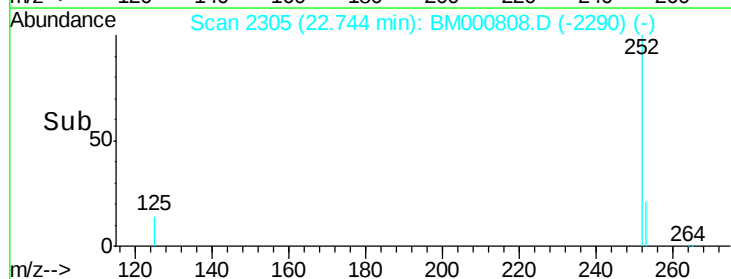
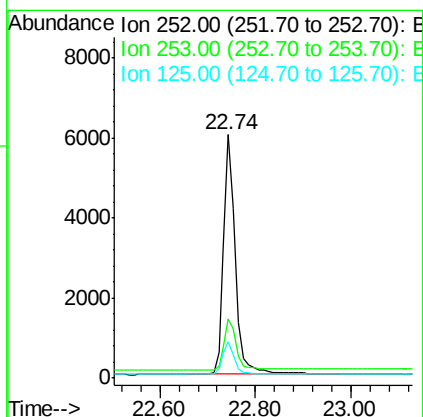
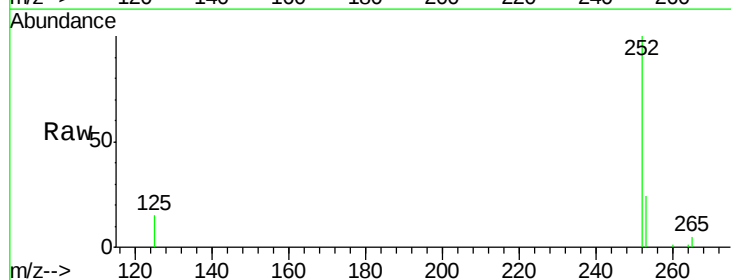
Instrument :
BNA_M
ClientSampleId :
RR-PAH-WPDL

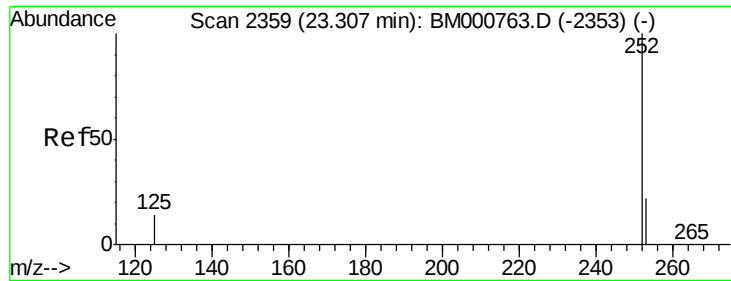
Tgt Ion:252 Resp: 10431
Ion Ratio Lower Upper
252 100
253 24.2 18.5 27.7
125 14.9 10.6 16.0



#27
Benzo(k)fluoranthene
Concen: 0.43 ng
RT: 22.74 min Scan# 2305
Delta R.T. -0.04 min
Lab File: BM000808.D
Acq: 02 Apr 2015 13:13

Tgt Ion:252 Resp: 10431
Ion Ratio Lower Upper
252 100
253 24.2 17.9 26.9
125 14.9 10.8 16.2





#28

Benzo(a)pyrene

Concen: 0.00 ng

RT: 23.31 min Scan# 2359

Delta R.T. -0.00 min

Lab File: BM000808.D

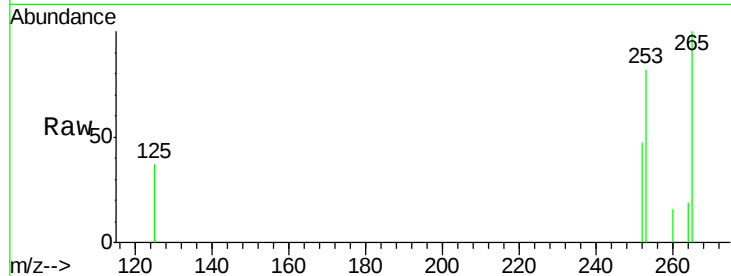
Acq: 02 Apr 2015 13:13

Instrument :

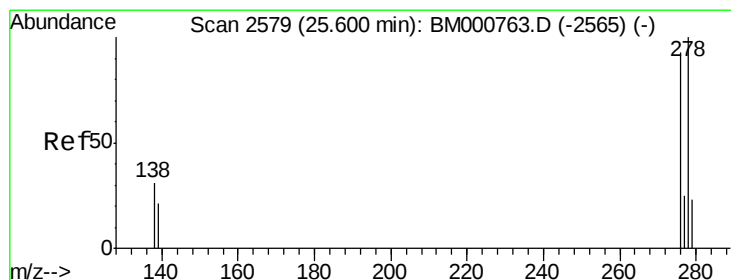
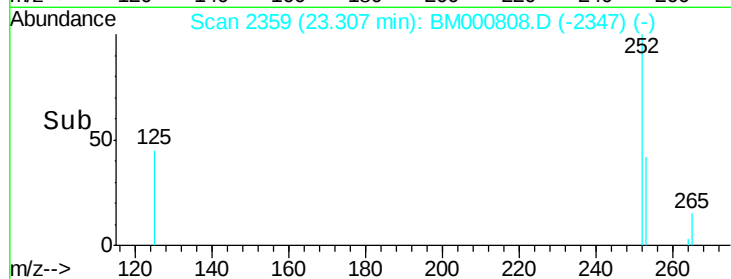
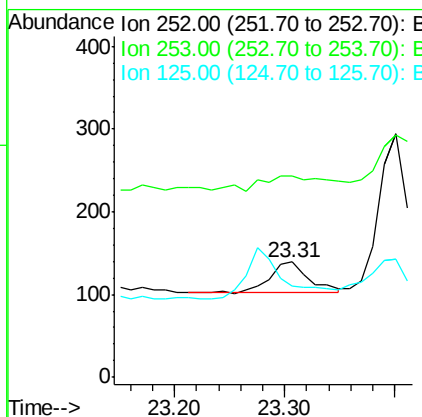
BNA_M

ClientSampleId :

RR-PAH-WPDL



Tgt Ion:	252	Resp:	93
Ion	Ratio	Lower	Upper
252	100		
253	175.5	19.4	29.2#
125	79.1	11.5	17.3#



#29

Dibenzo(a,h)anthracene

Concen: 0.72 ng

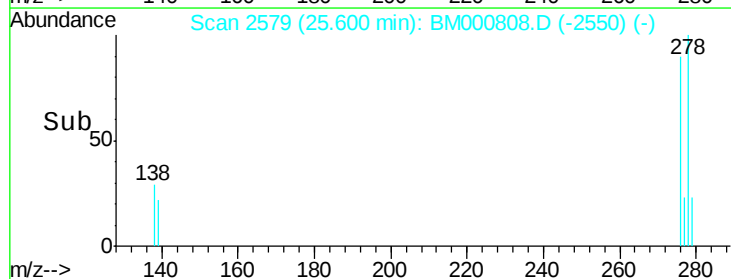
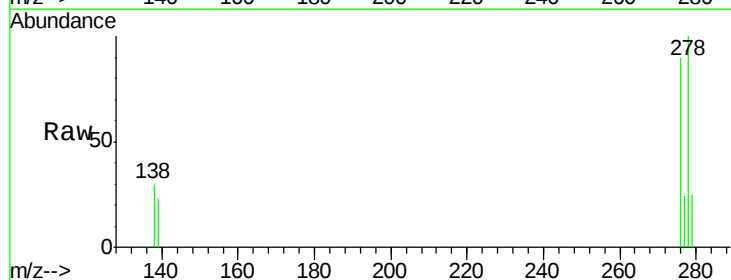
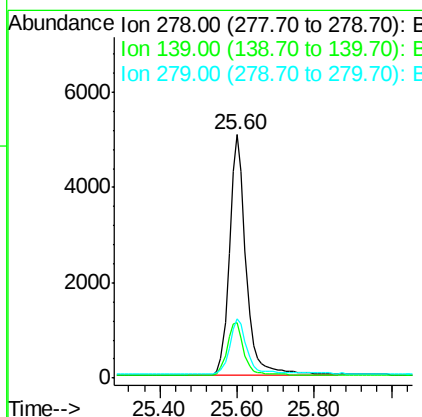
RT: 25.60 min Scan# 2579

Delta R.T. -0.00 min

Lab File: BM000808.D

Acq: 02 Apr 2015 13:13

Tgt Ion:	278	Resp:	15372
Ion	Ratio	Lower	Upper
278	100		
139	22.6	17.8	26.6
279	24.5	19.3	28.9





#30

Benzo(g,h,i)perylene

Concen: 0.84 ng

RT: 26.26 min Scan# 2642

Delta R.T. -0.00 min

Lab File: BM000808.D

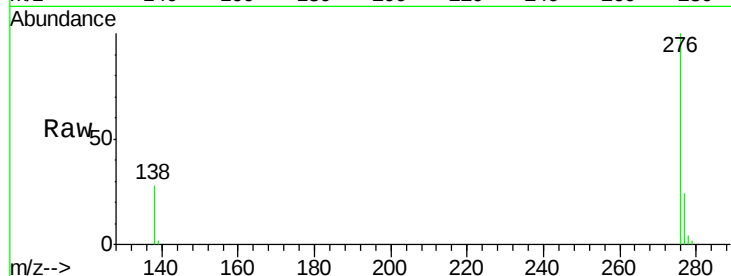
Acq: 02 Apr 2015 13:13

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL



Tgt Ion: 276 Resp: 19375

Ion Ratio Lower Upper

276 100

277 23.8 19.1 28.7

138 28.0 23.1 34.7

