

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM040215\
 Data File : BM000807.D
 Acq On : 02 Apr 2015 10:58
 Operator : TP/IZ
 Sample : G1457-22
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 RR-PAH-WP

Quant Time: Apr 03 02:04:39 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	32454	5.00	ng	0.00
4) Naphthalene-d8	10.40	136	112535	5.00	ng	0.00
8) Acenaphthene-d10	14.28	164	56531	5.00	ng	0.00
13) Phenanthrene-d10	17.01	188	127473	5.00	ng	0.00
19) Chrysene-d12	21.21	240	102345	5.00	ng	0.00
25) Perylene-d12	23.40	264	93152	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.77	82	67631	9.75	ng	0.00
9) 2-Fluorobiphenyl	12.89	172	199591	11.38	ng	0.00
21) Terphenyl-d14	19.66	244	157057	12.75	ng	0.00

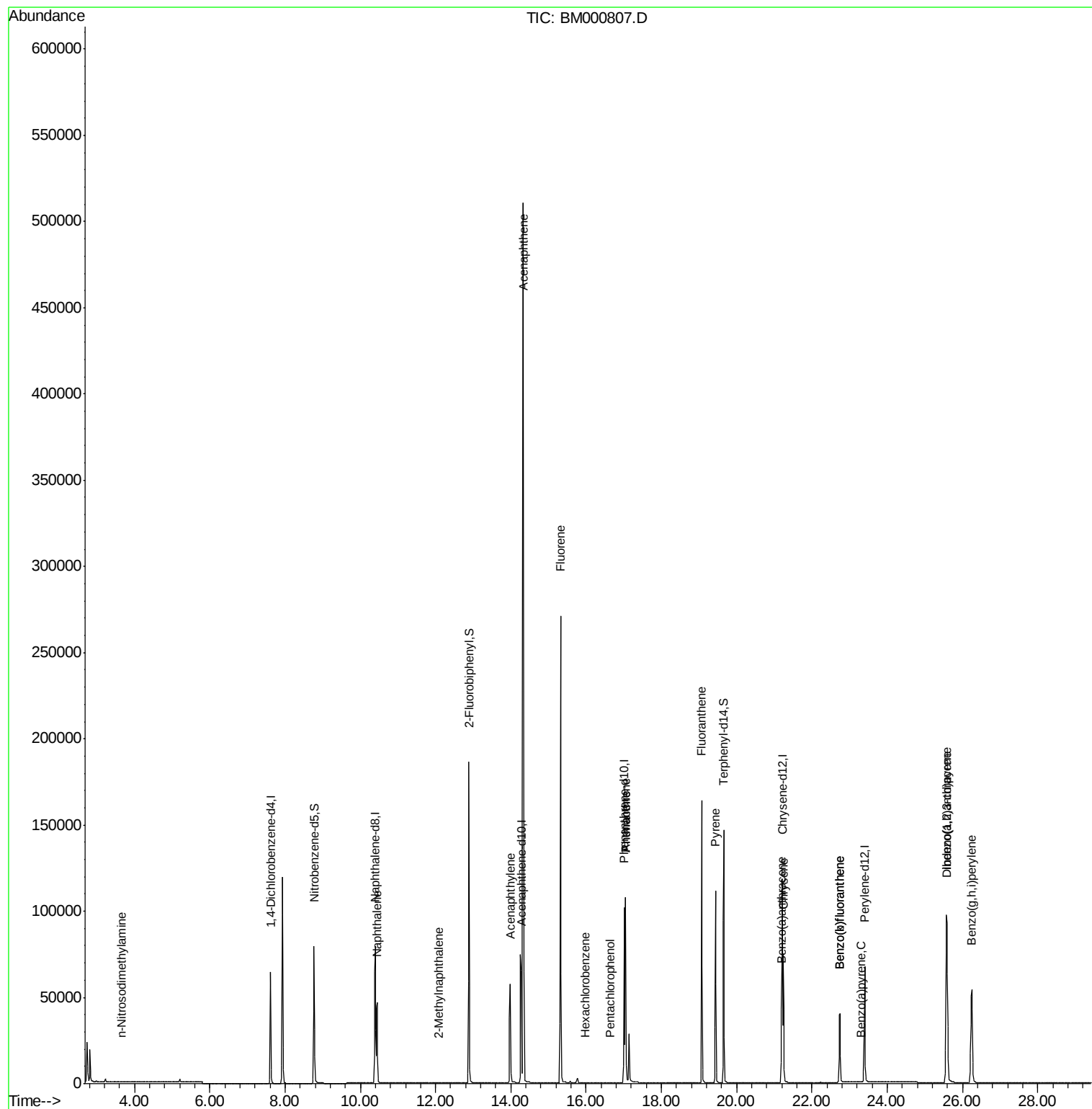
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.66	42	19	0.16	ng	# 1
6) Naphthalene	10.45	128	71079	2.72	ng	99
7) 2-Methylnaphthalene	12.08	142	44	0.00	ng	# 63
10) Acenaphthylene	13.98	152	82706	3.31	ng	100
11) Acenaphthene	14.33	154	265825	15.34	ng	98
12) Fluorene	15.32	166	171776	8.85	ng	99
14) Hexachlorobenzene	15.98	284	415	0.06	ng	# 43
15) Pentachlorophenol	16.64	266	116	0.42	ng	# 61
16) Phenanthrene	17.05	178	116320	3.33	ng	99
17) Anthracene	17.05	178	116320	3.98	ng	100
18) Fluoranthene	19.08	202	147221	4.27	ng	100
20) Pyrene	19.44	202	100717	3.02	ng	99
22) Benzo(a)anthracene	21.19	228	36092	1.23	ng	# 91
23) Chrysene	21.24	228	64898	2.12	ng	96
24) Indeno(1,2,3-cd)pyrene	25.58	276	106295	3.35	ng	100
26) Benzo(b)fluoranthene	22.73	252	55372	1.89	ng	95
27) Benzo(k)fluoranthene	22.73	252	55480	1.97	ng	96
28) Benzo(a)pyrene	23.30	252	224	0.01	ng	# 1
29) Dibenzo(a,h)anthracene	25.59	278	85240	3.43	ng	98
30) Benzo(g,h,i)perylene	26.25	276	103064	3.84	ng	99

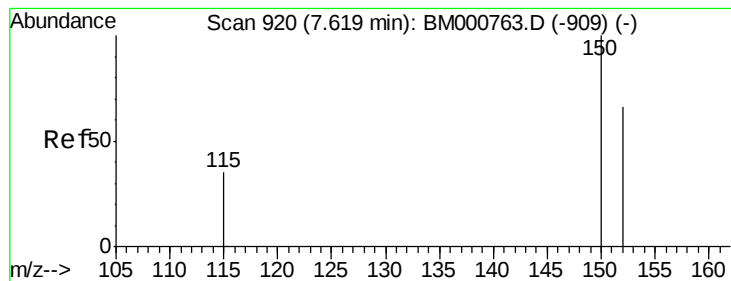
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 03 02:04:39 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: BM000807.D

Acq: 02 Apr 2015 10:58

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

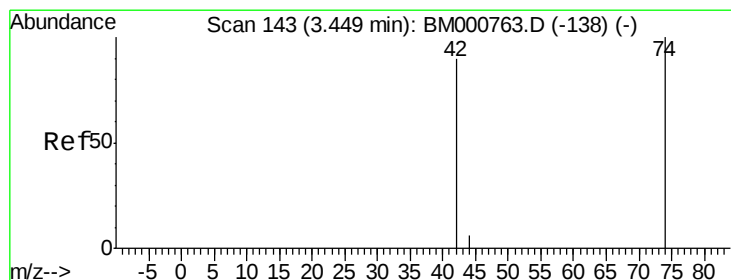
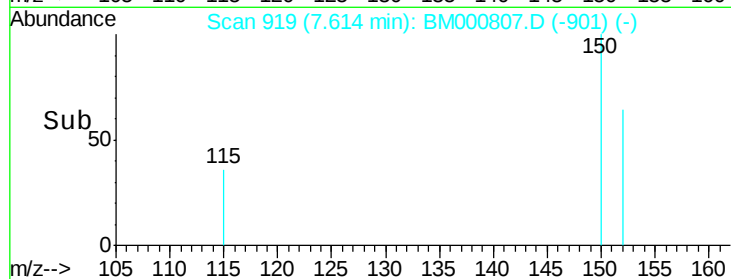
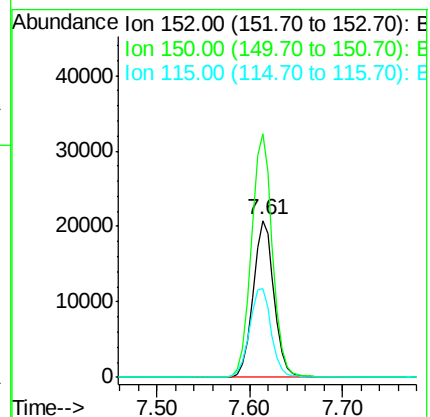
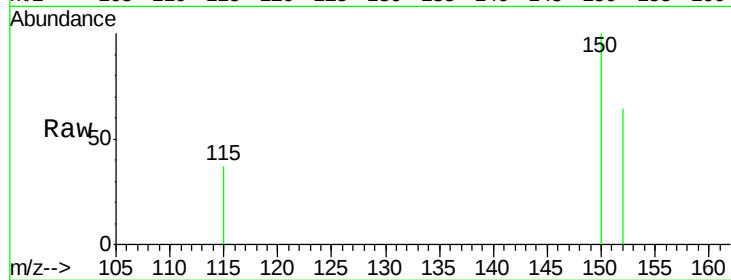
Tgt Ion: 152 Resp: 32454

Ion Ratio Lower Upper

152 100

150 155.5 120.8 181.2

115 56.8 42.7 64.1



#3

n-Nitrosodimethylamine

Concen: 0.16 ng

RT: 3.66 min Scan# 182

Delta R.T. 0.21 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

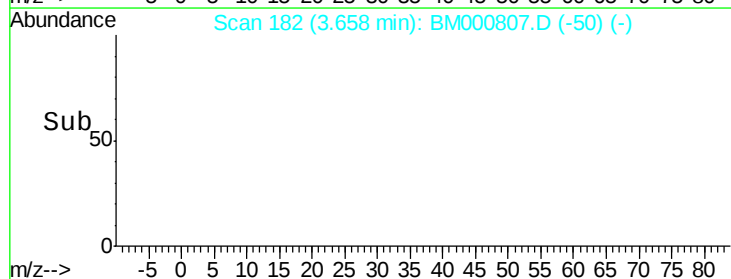
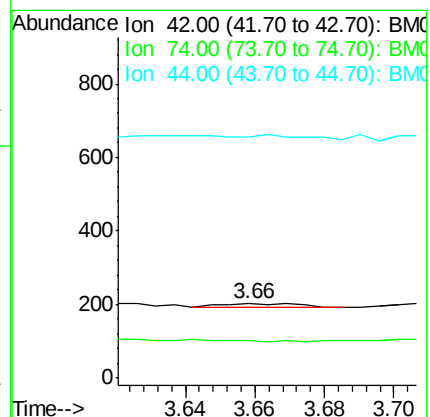
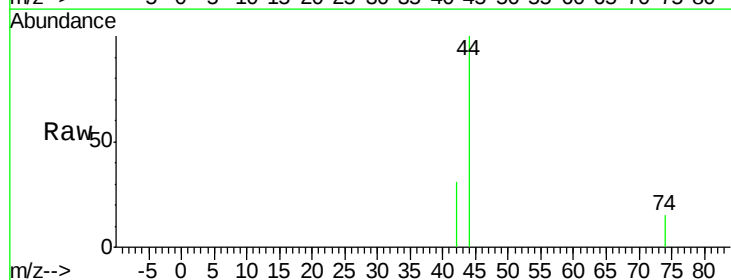
Tgt Ion: 42 Resp: 19

Ion Ratio Lower Upper

42 100

74 0.0 93.6 140.4#

44 0.0 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: BM000807.D

Acq: 02 Apr 2015 10:58

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

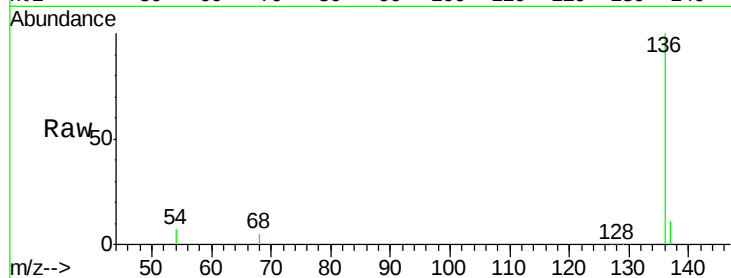
Tgt Ion: 136 Resp: 112535

Ion Ratio Lower Upper

136 100

137 11.0 8.6 12.8

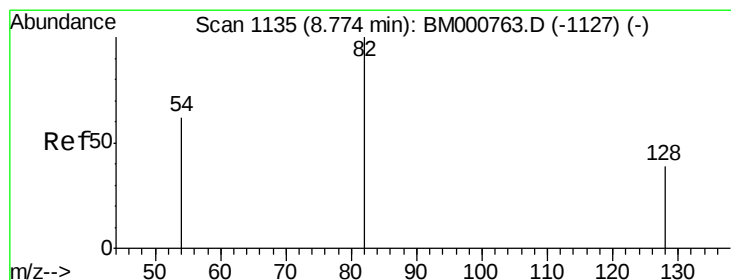
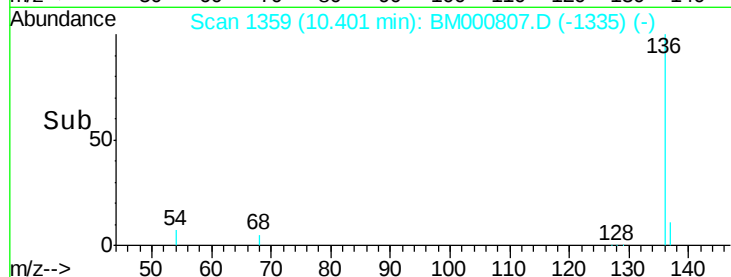
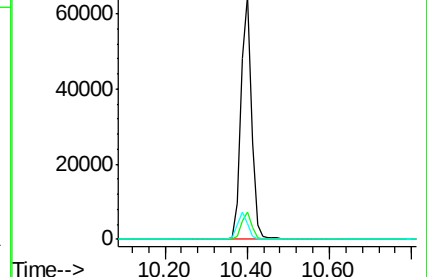
54 6.7 7.0 10.6#



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: 9.75 ng

RT: 8.77 min Scan# 1134

Delta R.T. -0.00 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

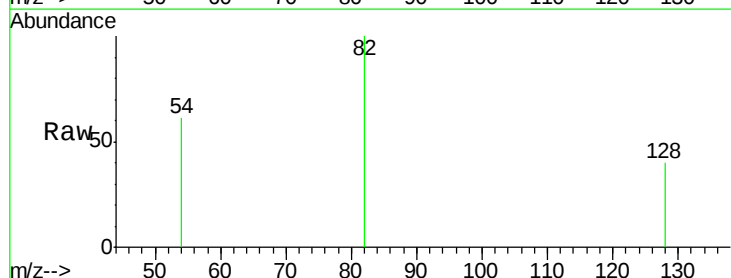
Tgt Ion: 82 Resp: 67631

Ion Ratio Lower Upper

82 100

128 40.0 32.2 48.2

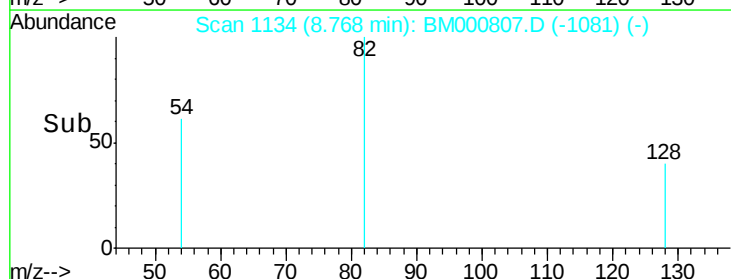
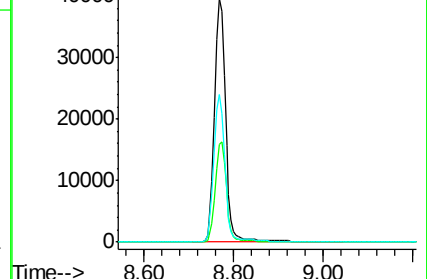
54 60.8 50.2 75.4

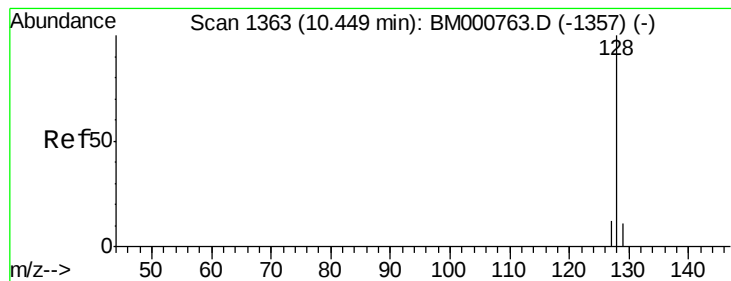


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#6

Naphthalene

Concen: 2.72 ng

RT: 10.45 min Scan# 1363

Delta R.T. -0.00 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

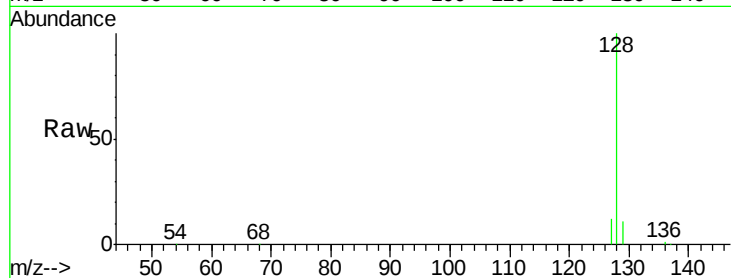
Tgt Ion:128 Resp: 71079

Ion Ratio Lower Upper

128 100

129 11.4 8.9 13.3

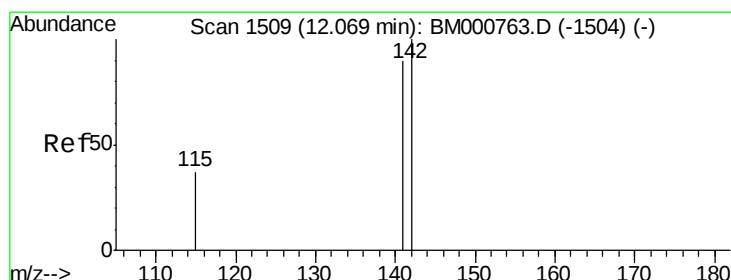
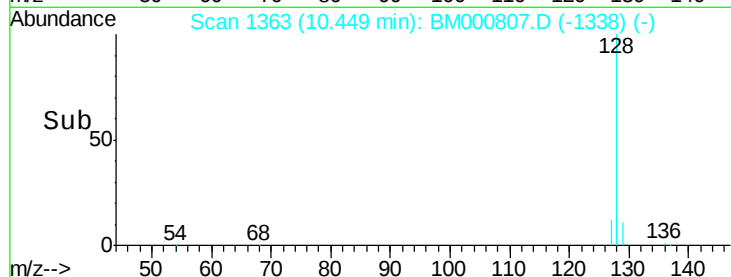
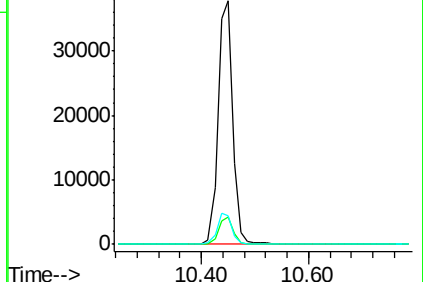
127 11.7 10.0 15.0



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: BM000807.D

Acq: 02 Apr 2015 10:58

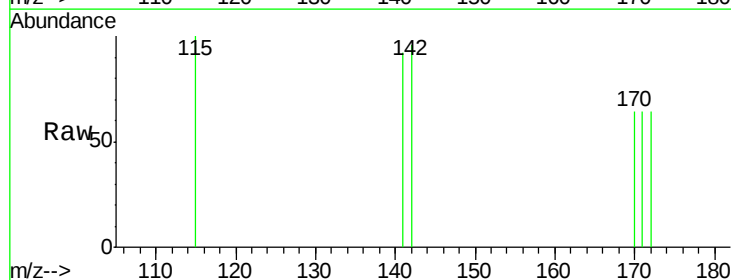
Tgt Ion:142 Resp: 44

Ion Ratio Lower Upper

142 100

141 95.8 72.3 108.5

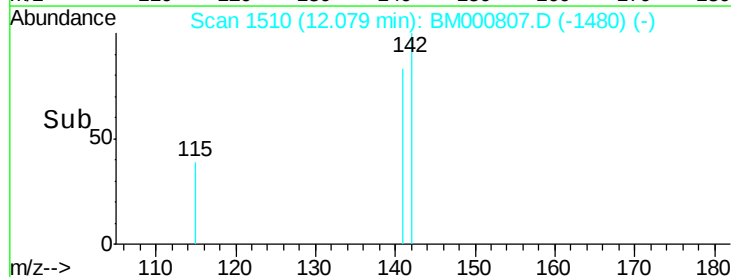
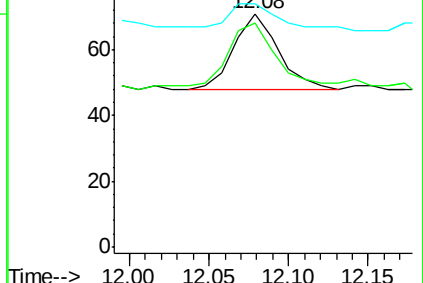
115 104.2 29.5 44.3#



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

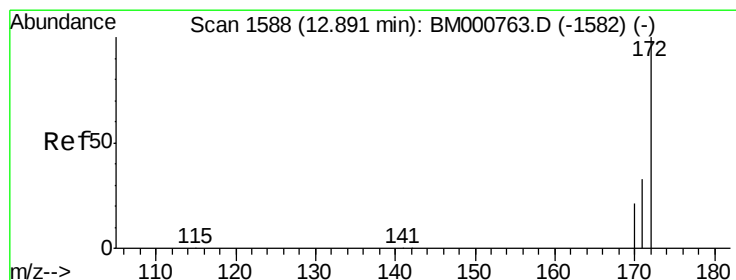
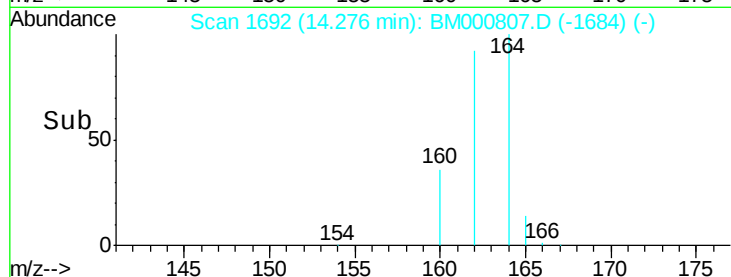
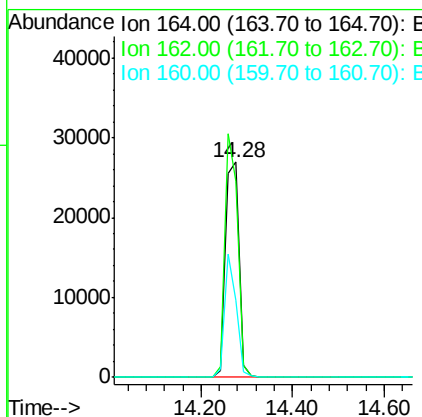
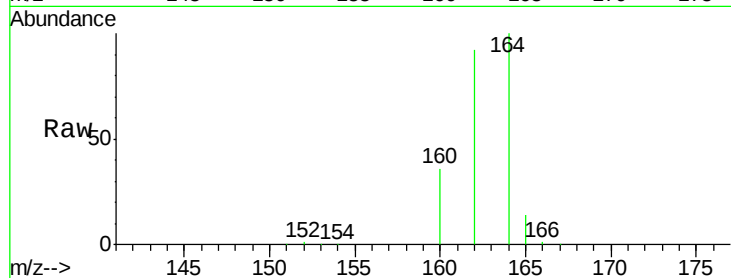




#8
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.28 min Scan# 1692
Delta R.T. -0.00 min
Lab File: BM000807.D
Acq: 02 Apr 2015 10:58

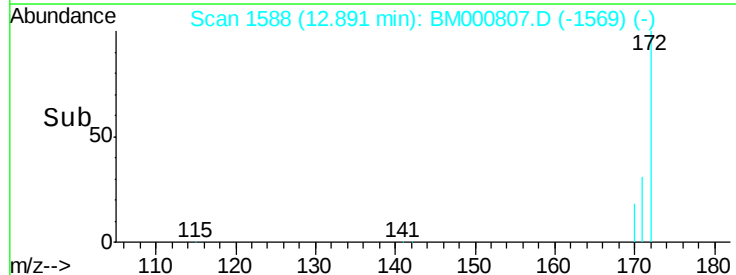
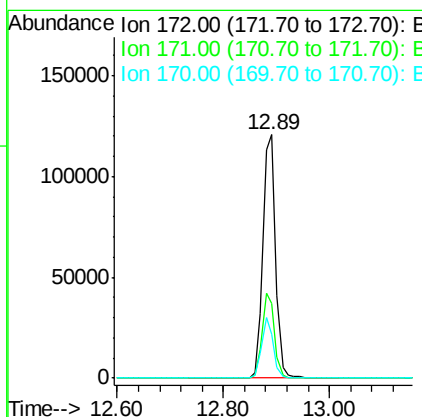
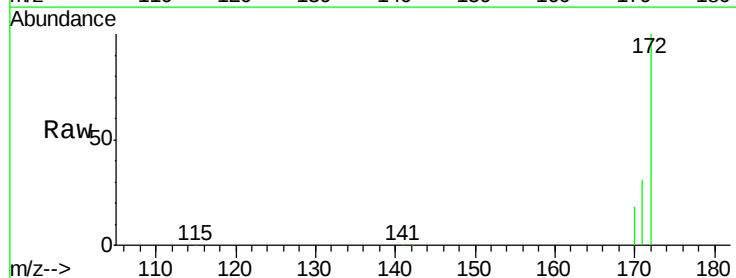
Instrument :
BNA_M
ClientSampleId :
RR-PAH-WP

Tgt Ion:164 Resp: 56531
Ion Ratio Lower Upper
164 100
162 91.5 75.4 113.2
160 36.1 30.8 46.2



#9
2-Fluorobiphenyl
Concen: 11.38 ng
RT: 12.89 min Scan# 1588
Delta R.T. -0.00 min
Lab File: BM000807.D
Acq: 02 Apr 2015 10:58

Tgt Ion:172 Resp: 199591
Ion Ratio Lower Upper
172 100
171 30.8 26.6 39.8
170 18.3 17.1 25.7





#10

Acenaphthylene

Concen: 3.31 ng

RT: 13.98 min Scan# 1675

Delta R.T. -0.00 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

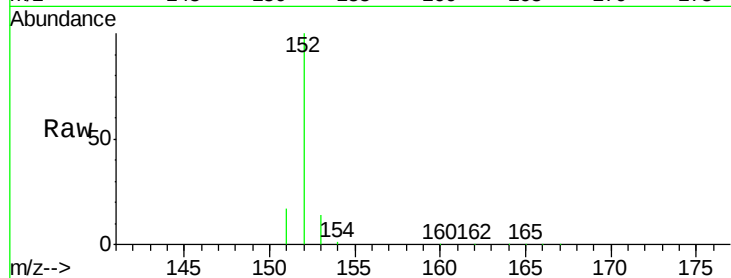
Tgt Ion:152 Resp: 82706

Ion Ratio Lower Upper

152 100

151 19.0 15.1 22.7

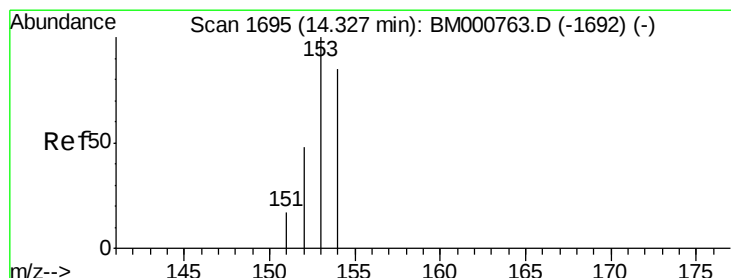
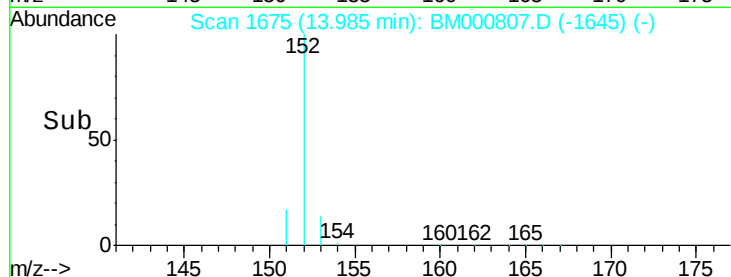
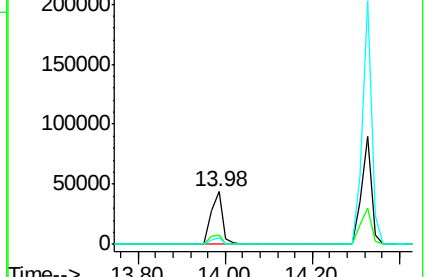
153 13.0 10.2 15.4



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: 15.34 ng

RT: 14.33 min Scan# 1695

Delta R.T. -0.00 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

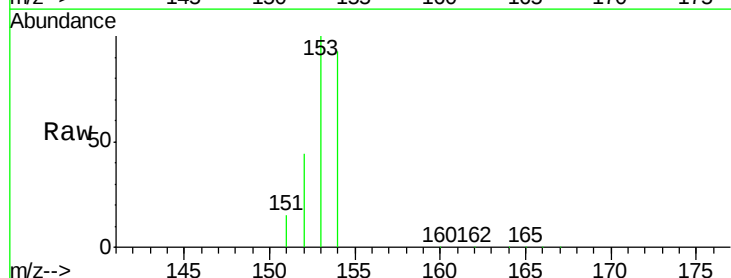
Tgt Ion:154 Resp: 265825

Ion Ratio Lower Upper

154 100

153 110.7 87.3 130.9

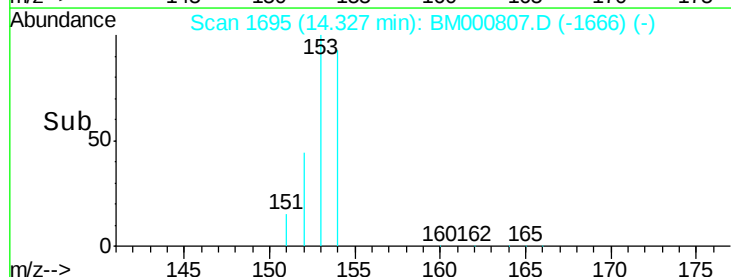
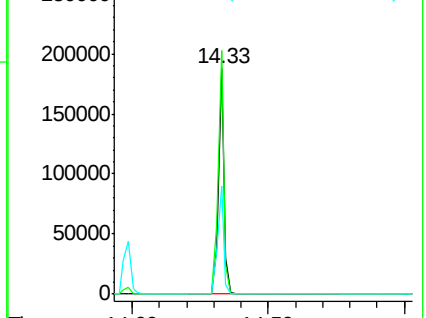
152 52.6 43.0 64.6

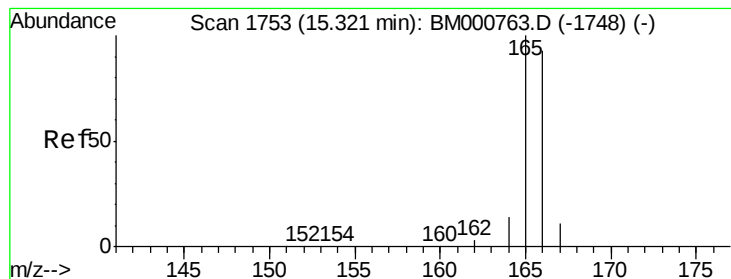


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#12

Fluorene

Concen: 8.85 ng

RT: 15.32 min Scan# 1753

Delta R.T. -0.00 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

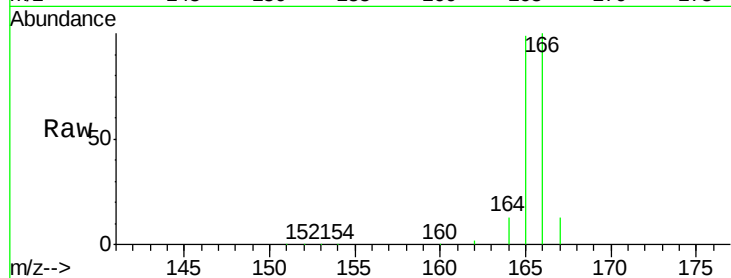
Tgt Ion:166 Resp: 171776

Ion Ratio Lower Upper

166 100

165 96.7 78.2 117.2

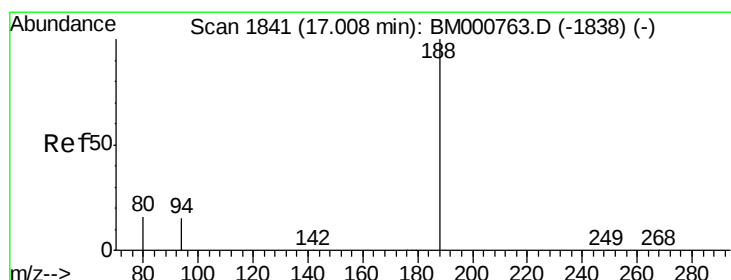
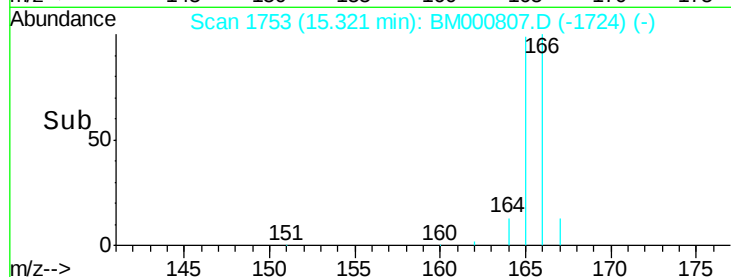
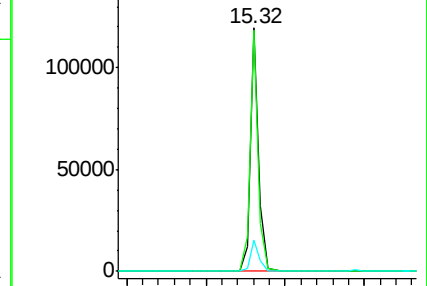
167 13.1 10.7 16.1



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: BM000807.D

Acq: 02 Apr 2015 10:58

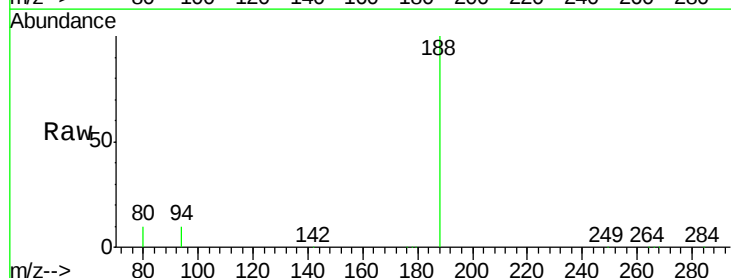
Tgt Ion:188 Resp: 127473

Ion Ratio Lower Upper

188 100

94 9.8 12.0 18.0#

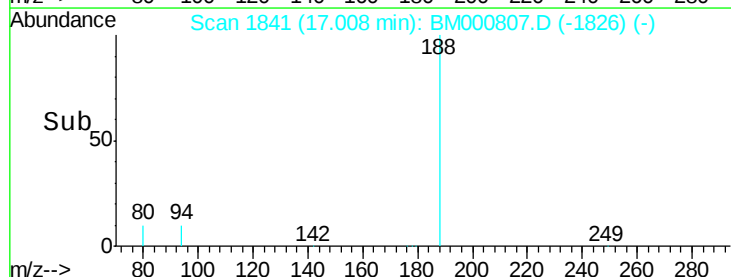
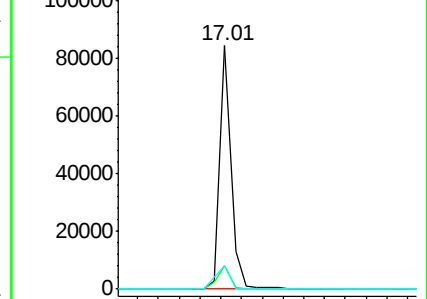
80 9.9 12.8 19.2#



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: 0.06 ng

RT: 15.98 min Scan# 1791

Delta R.T. -0.35 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

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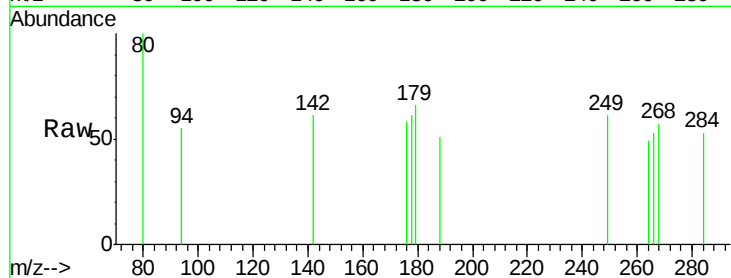
Tgt Ion: 284 Resp: 415

Ion Ratio Lower Upper

284 100

142 213.5 0.0 0.0#

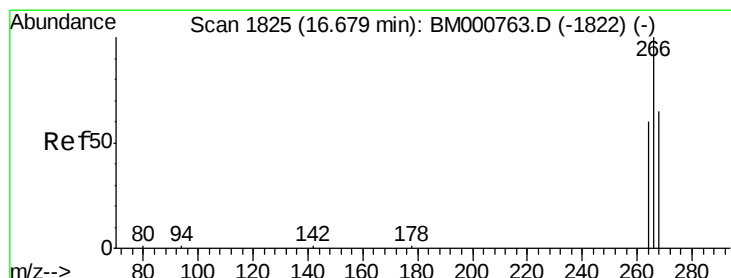
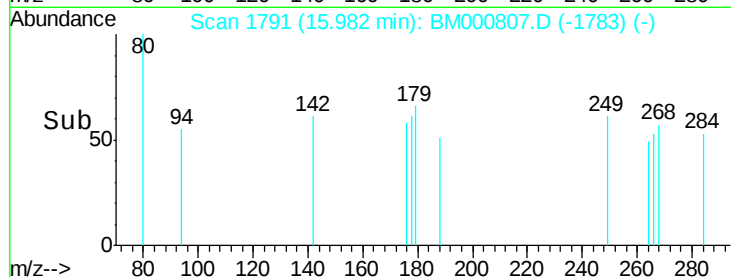
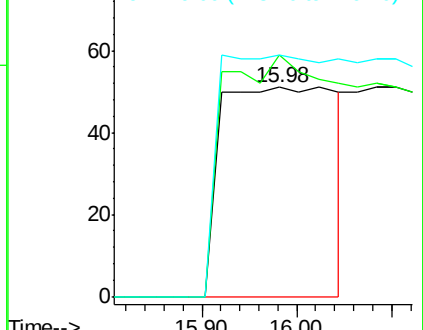
249 0.0 25.2 37.8#



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: 0.42 ng

RT: 16.64 min Scan# 1823

Delta R.T. -0.04 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

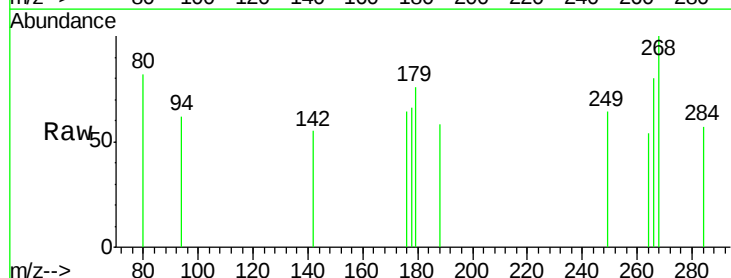
Tgt Ion: 266 Resp: 116

Ion Ratio Lower Upper

266 100

268 125.4 55.0 82.6#

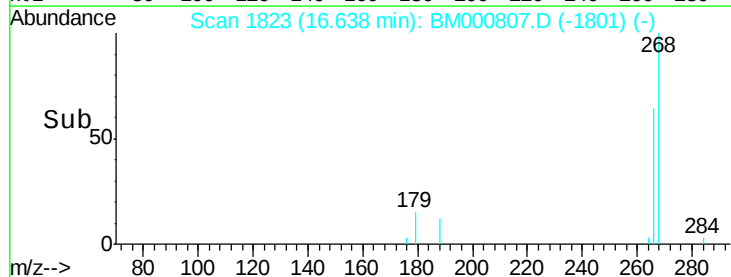
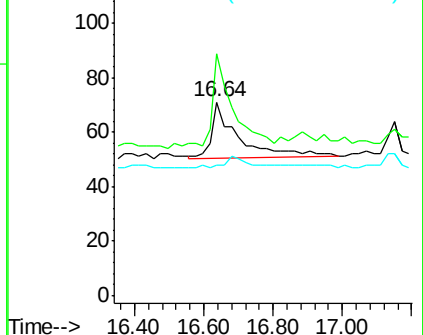
264 67.6 51.0 76.4

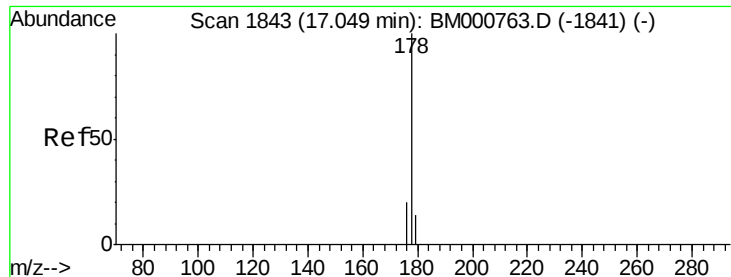


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#16

Phenanthrene

Concen: 3.33 ng

RT: 17.05 min Scan# 1843

Delta R.T. -0.00 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

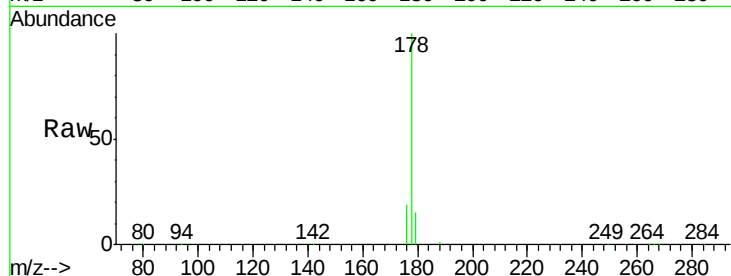
Tgt Ion:178 Resp: 116320

Ion Ratio Lower Upper

178 100

176 18.6 15.3 22.9

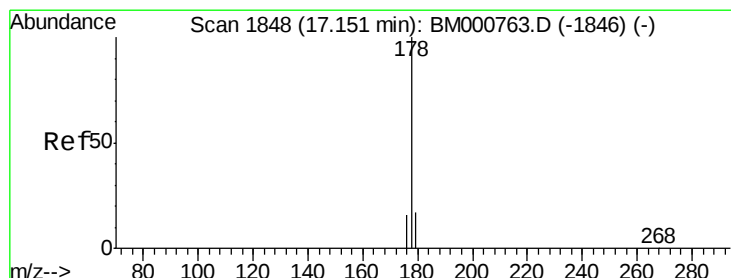
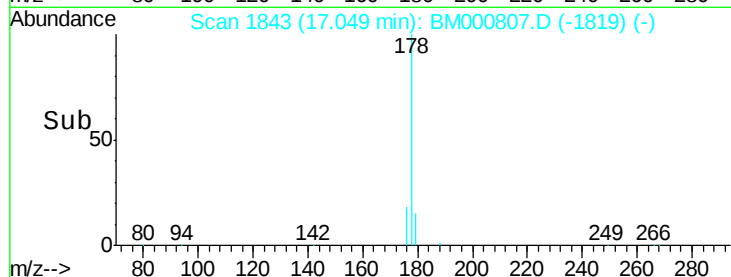
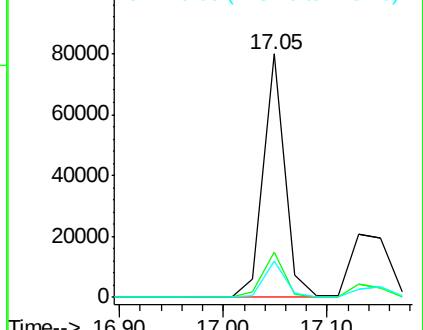
179 15.2 12.2 18.2



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: 3.98 ng

RT: 17.05 min Scan# 1843

Delta R.T. -0.10 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

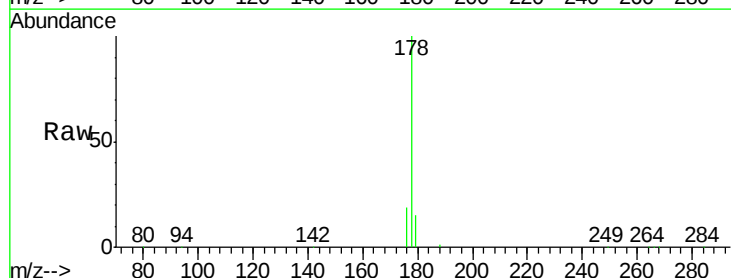
Tgt Ion:178 Resp: 116320

Ion Ratio Lower Upper

178 100

176 18.6 14.6 22.0

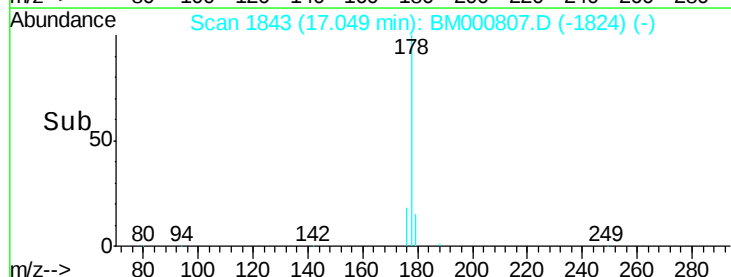
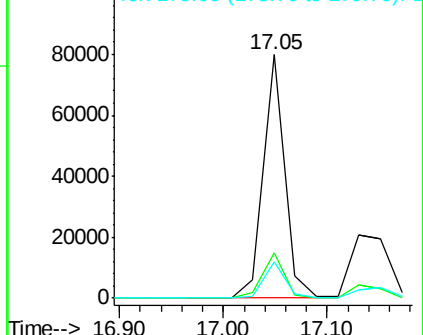
179 15.2 12.2 18.4



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

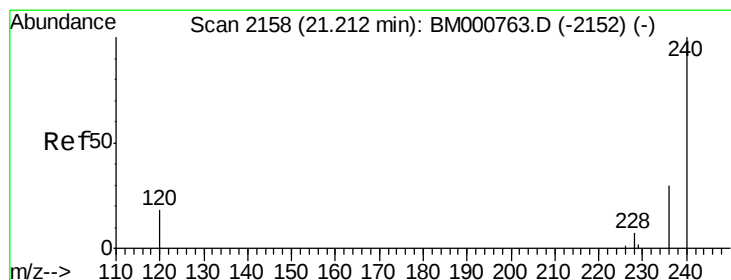
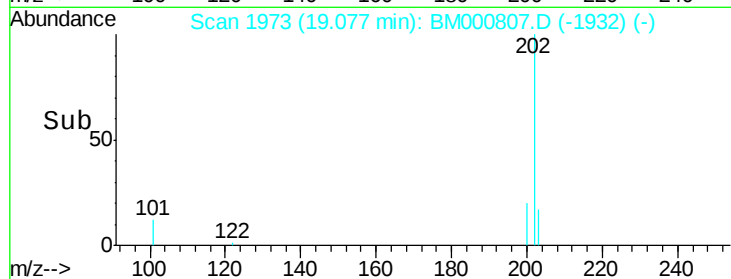
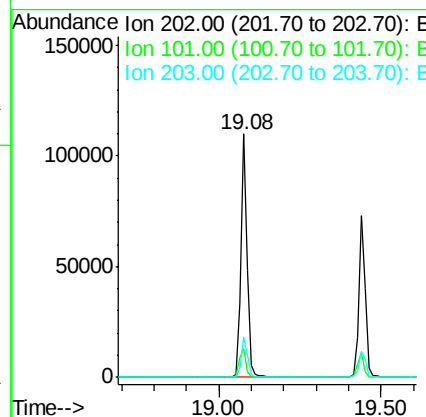
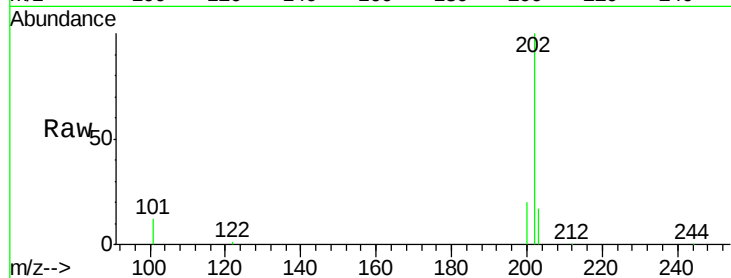




#18
 Fluoranthene
 Concen: 4.27 ng
 RT: 19.08 min Scan# 1973
 Delta R.T. -0.00 min
 Lab File: BM000807.D
 Acq: 02 Apr 2015 10:58

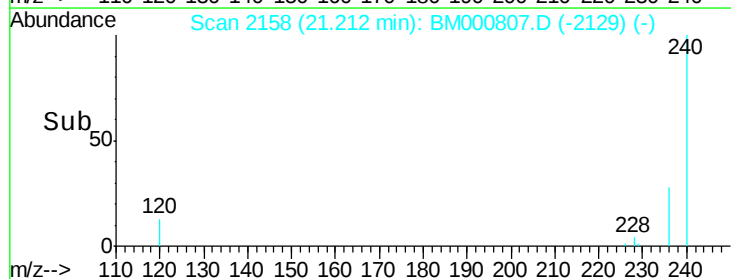
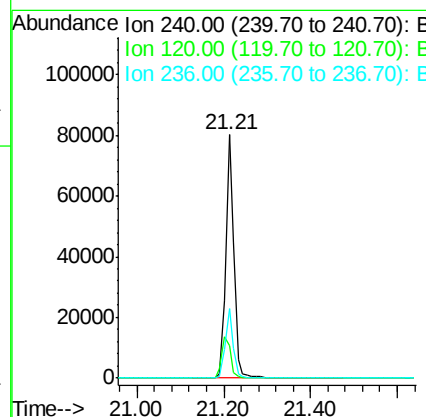
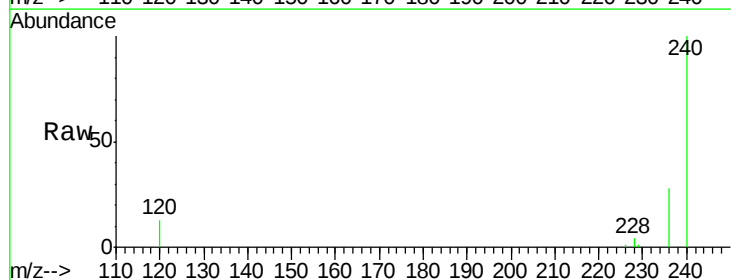
Instrument :
 BNA_M
 ClientSampleId :
 RR-PAH-WP

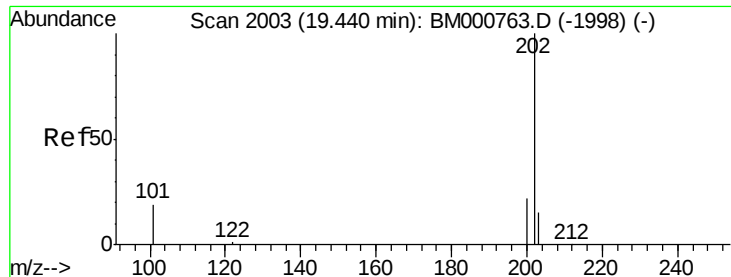
Tgt Ion: 202 Resp: 147221
 Ion Ratio Lower Upper
 202 100
 101 12.9 10.5 15.7
 203 17.2 13.8 20.8



#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.21 min Scan# 2158
 Delta R.T. -0.00 min
 Lab File: BM000807.D
 Acq: 02 Apr 2015 10:58

Tgt Ion: 240 Resp: 102345
 Ion Ratio Lower Upper
 240 100
 120 13.1 14.9 22.3#
 236 28.3 24.2 36.4

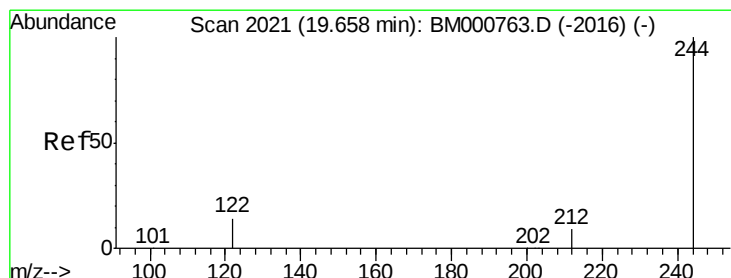
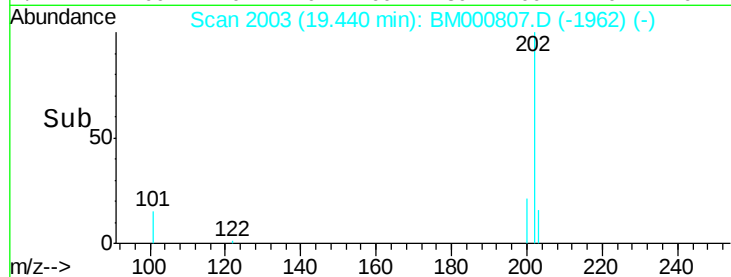
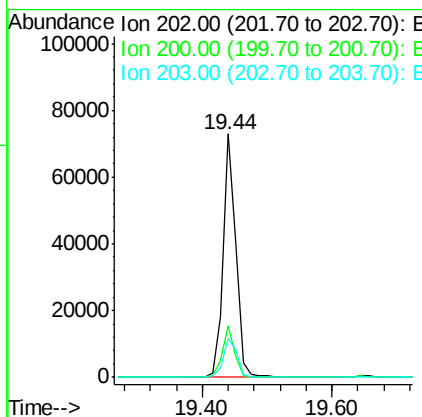
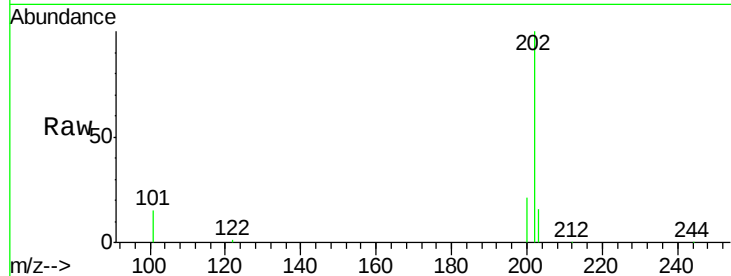




#20
Pyrene
Concen: 3.02 ng
RT: 19.44 min Scan# 2003
Delta R.T. -0.00 min
Lab File: BM000807.D
Acq: 02 Apr 2015 10:58

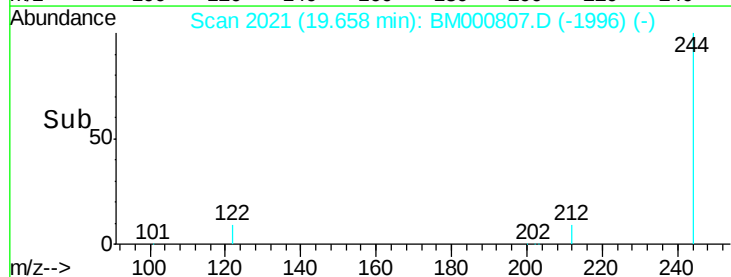
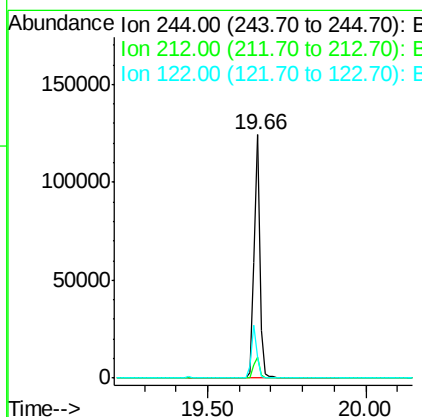
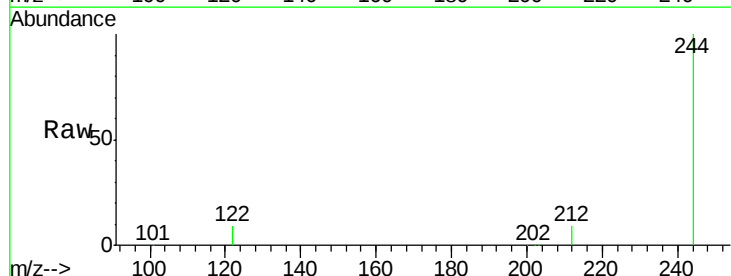
Instrument :
BNA_M
ClientSampleId :
RR-PAH-WP

Tgt Ion:202 Resp: 100717
Ion Ratio Lower Upper
202 100
200 20.3 16.2 24.2
203 17.9 13.9 20.9



#21
Terphenyl-d14
Concen: 12.75 ng
RT: 19.66 min Scan# 2021
Delta R.T. -0.00 min
Lab File: BM000807.D
Acq: 02 Apr 2015 10:58

Tgt Ion:244 Resp: 157057
Ion Ratio Lower Upper
244 100
212 8.6 7.8 11.6
122 8.8 11.8 17.8#





#22

Benzo(a)anthracene

Concen: 1.23 ng

RT: 21.19 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

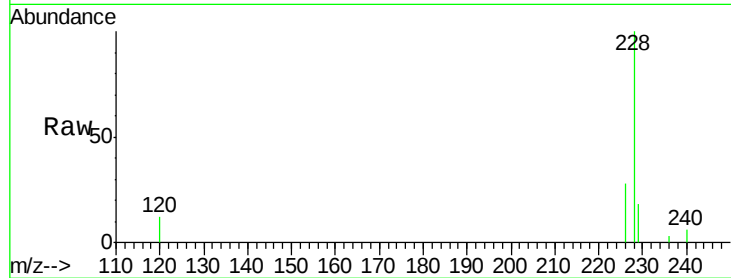
Tgt Ion:228 Resp: 36092

Ion Ratio Lower Upper

228 100

226 28.3 18.6 27.8#

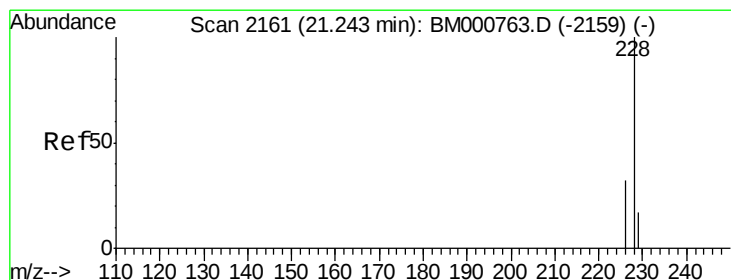
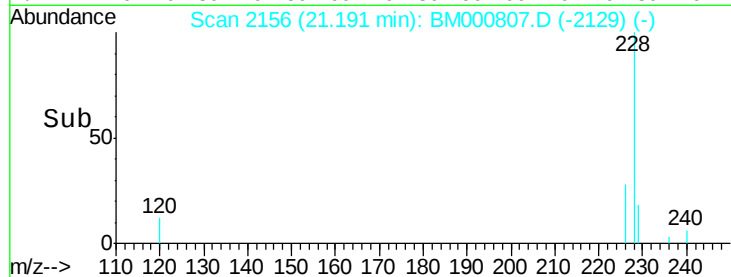
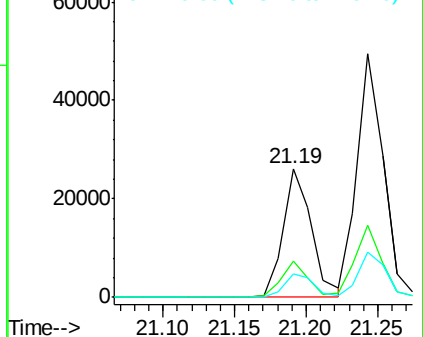
229 18.1 17.2 25.8



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: 2.12 ng

RT: 21.24 min Scan# 2161

Delta R.T. -0.00 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

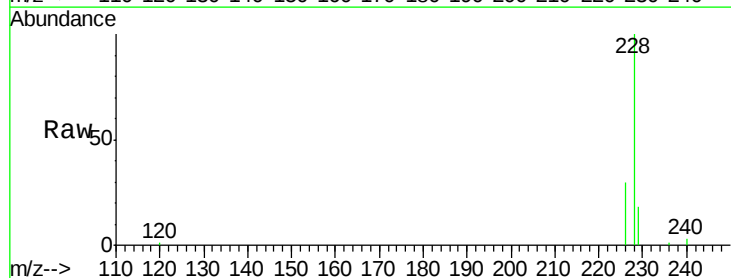
Tgt Ion:228 Resp: 64898

Ion Ratio Lower Upper

228 100

226 29.6 25.8 38.8

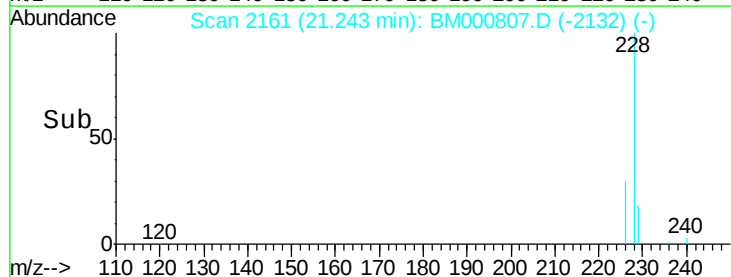
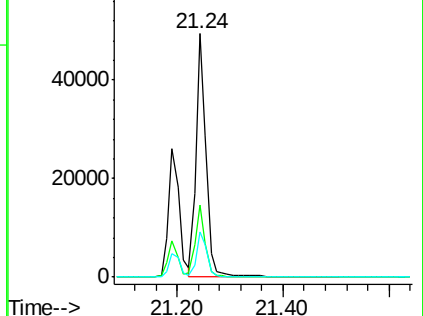
229 18.5 13.8 20.6



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: 3.35 ng

RT: 25.58 min Scan# 2577

Delta R.T. -0.01 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

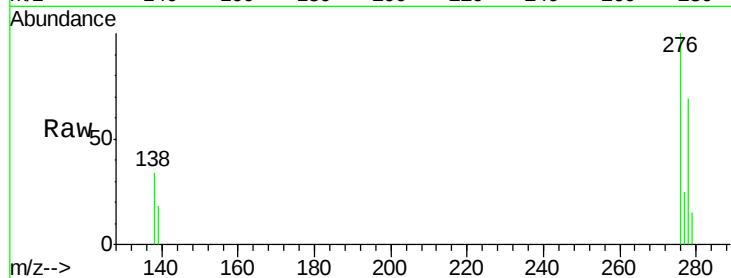
Tgt Ion:276 Resp: 106295

Ion Ratio Lower Upper

276 100

138 34.3 27.4 41.2

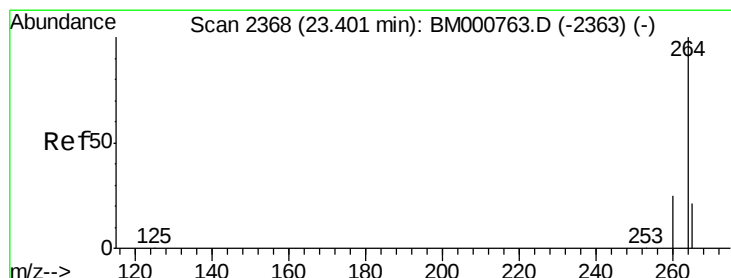
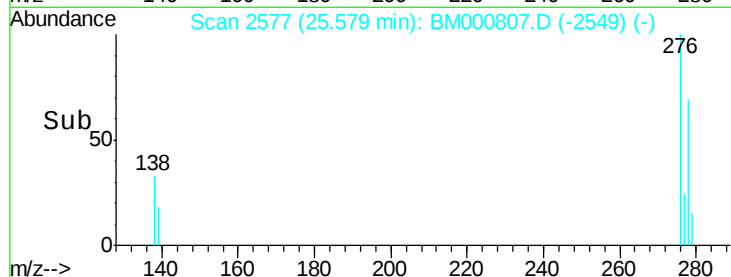
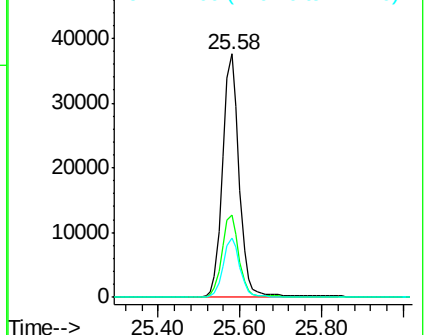
277 24.5 19.7 29.5



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: BM000807.D

Acq: 02 Apr 2015 10:58

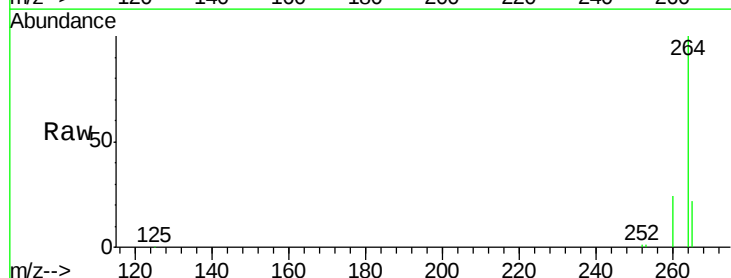
Tgt Ion:264 Resp: 93152

Ion Ratio Lower Upper

264 100

260 23.9 20.1 30.1

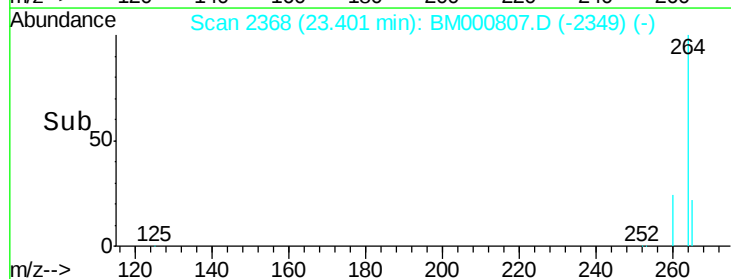
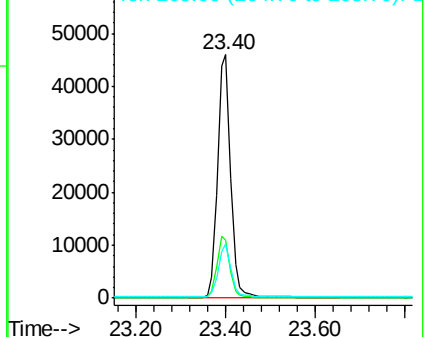
265 22.4 17.4 26.0

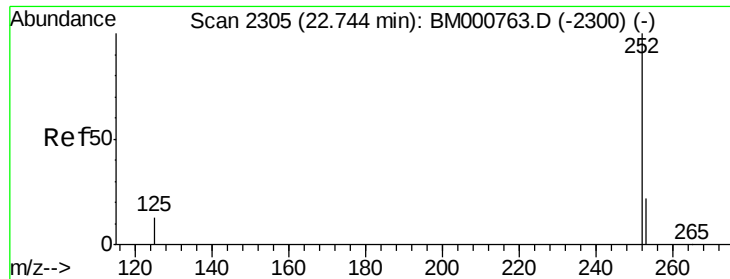


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

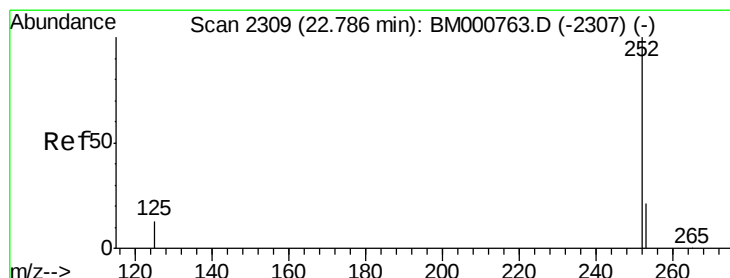
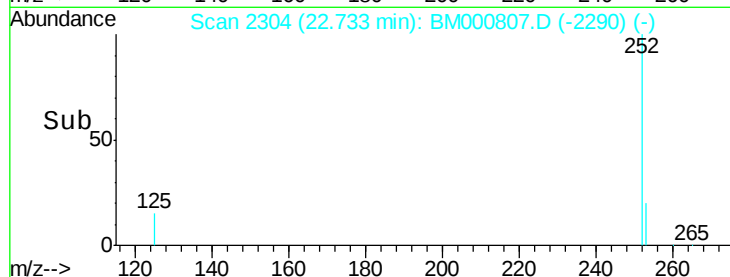
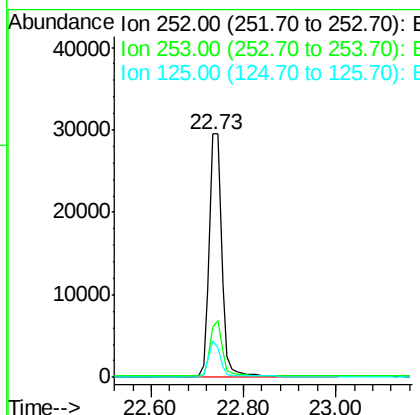
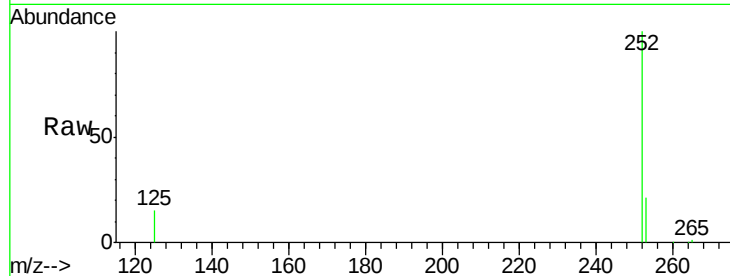




#26
Benzo(b)fluoranthene
Concen: 1.89 ng
RT: 22.73 min Scan# 2304
Delta R.T. -0.01 min
Lab File: BM000807.D
Acq: 02 Apr 2015 10:58

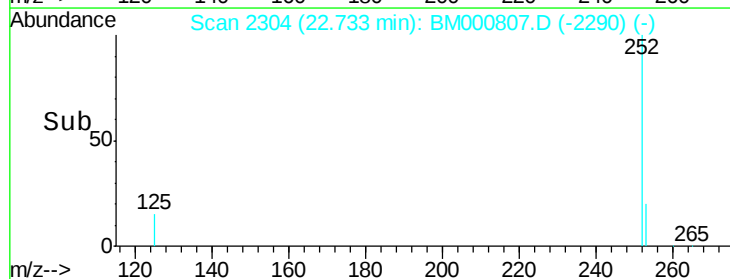
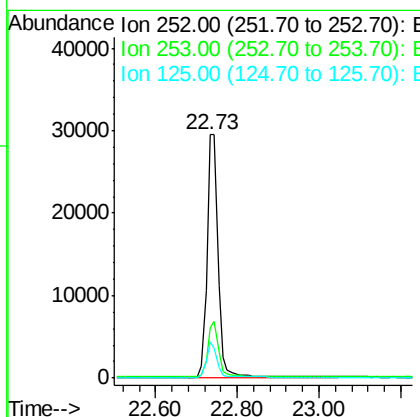
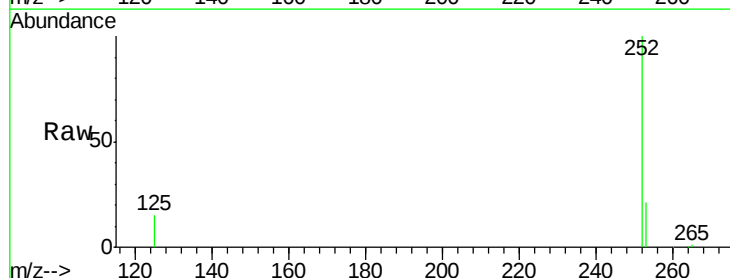
Instrument :
BNA_M
ClientSampleId :
RR-PAH-WP

Tgt Ion:252 Resp: 55372
Ion Ratio Lower Upper
252 100
253 20.5 18.5 27.7
125 14.8 10.6 16.0



#27
Benzo(k)fluoranthene
Concen: 1.97 ng
RT: 22.73 min Scan# 2304
Delta R.T. -0.05 min
Lab File: BM000807.D
Acq: 02 Apr 2015 10:58

Tgt Ion:252 Resp: 55480
Ion Ratio Lower Upper
252 100
253 20.5 17.9 26.9
125 14.8 10.8 16.2





#28

Benzo(a)pyrene

Concen: 0.01 ng

RT: 23.30 min Scan# 2358

Delta R.T. -0.01 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

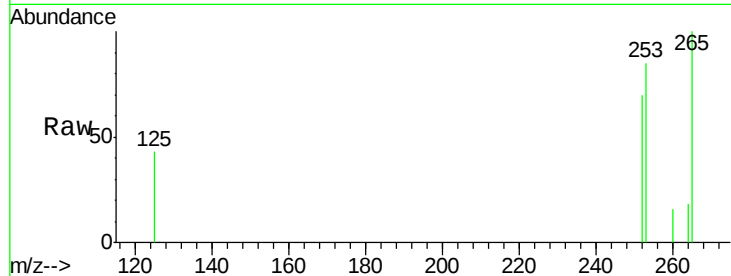
Tgt Ion: 252 Resp: 224

Ion Ratio Lower Upper

252 100

253 121.6 19.4 29.2#

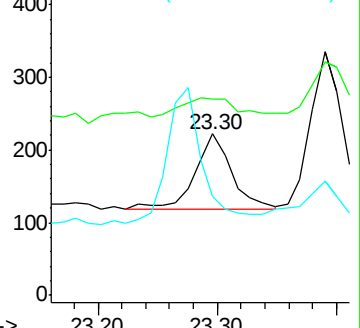
125 61.3 11.5 17.3#



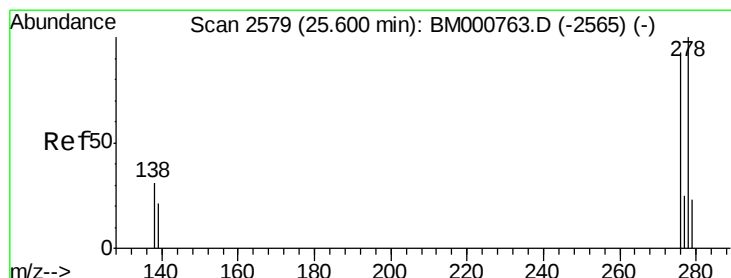
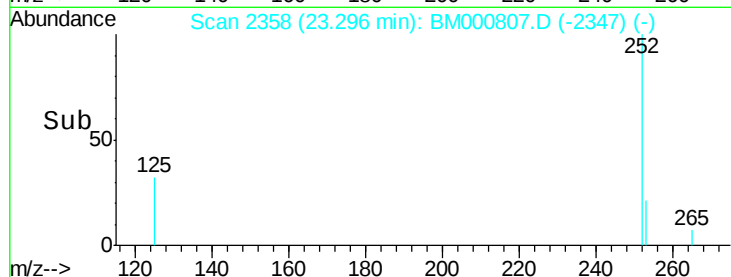
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#29

Dibenzo(a,h)anthracene

Concen: 3.43 ng

RT: 25.59 min Scan# 2578

Delta R.T. -0.01 min

Lab File: BM000807.D

Acq: 02 Apr 2015 10:58

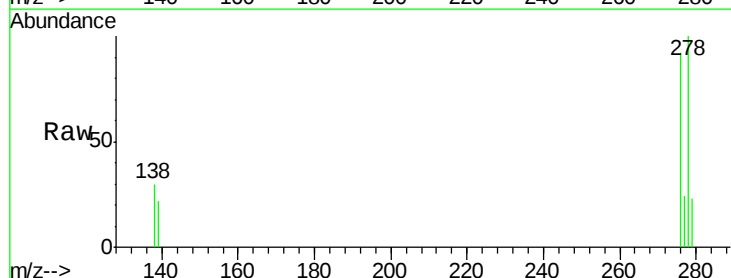
Tgt Ion: 278 Resp: 85240

Ion Ratio Lower Upper

278 100

139 21.5 17.8 26.6

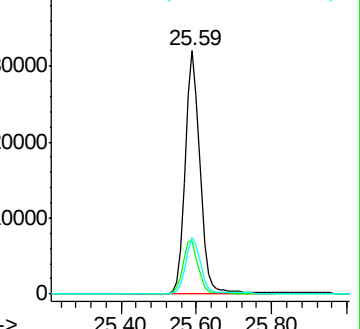
279 23.2 19.3 28.9



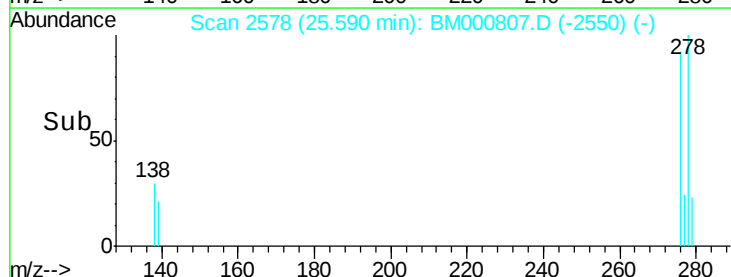
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->





#30

Benzo(g,h,i)perylene

Concen: 3.84 ng

RT: 26.25 min Scan# 2641

Delta R.T. -0.01 min

Lab File: BM000807.D

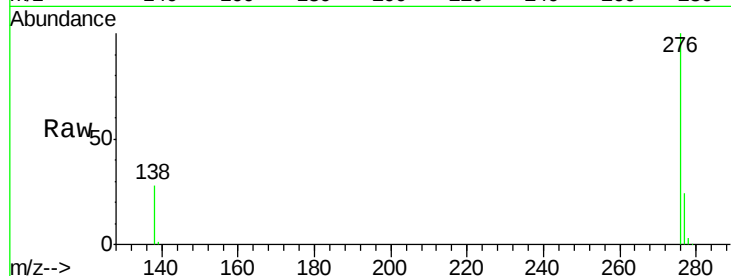
Acq: 02 Apr 2015 10:58

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP



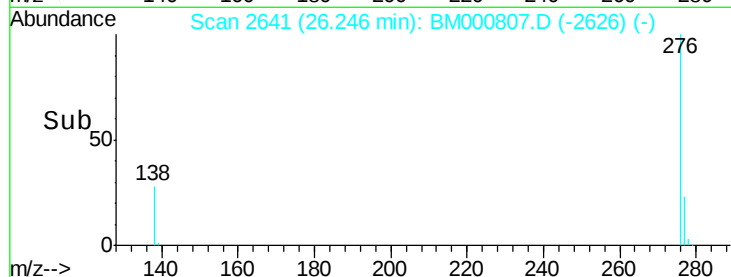
Tgt Ion: 276 Resp: 103064

Ion Ratio Lower Upper

276 100

277 23.6 19.1 28.7

138 28.2 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

