

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM040815\
 Data File : BM000913.D
 Acq On : 08 Apr 2015 17:25
 Operator : TP/IZ
 Sample : PB82543BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PB82543BSD

Quant Time: Apr 09 03:48:11 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM033115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 09 03:29:56 2015
 Response via : Initial Calibration

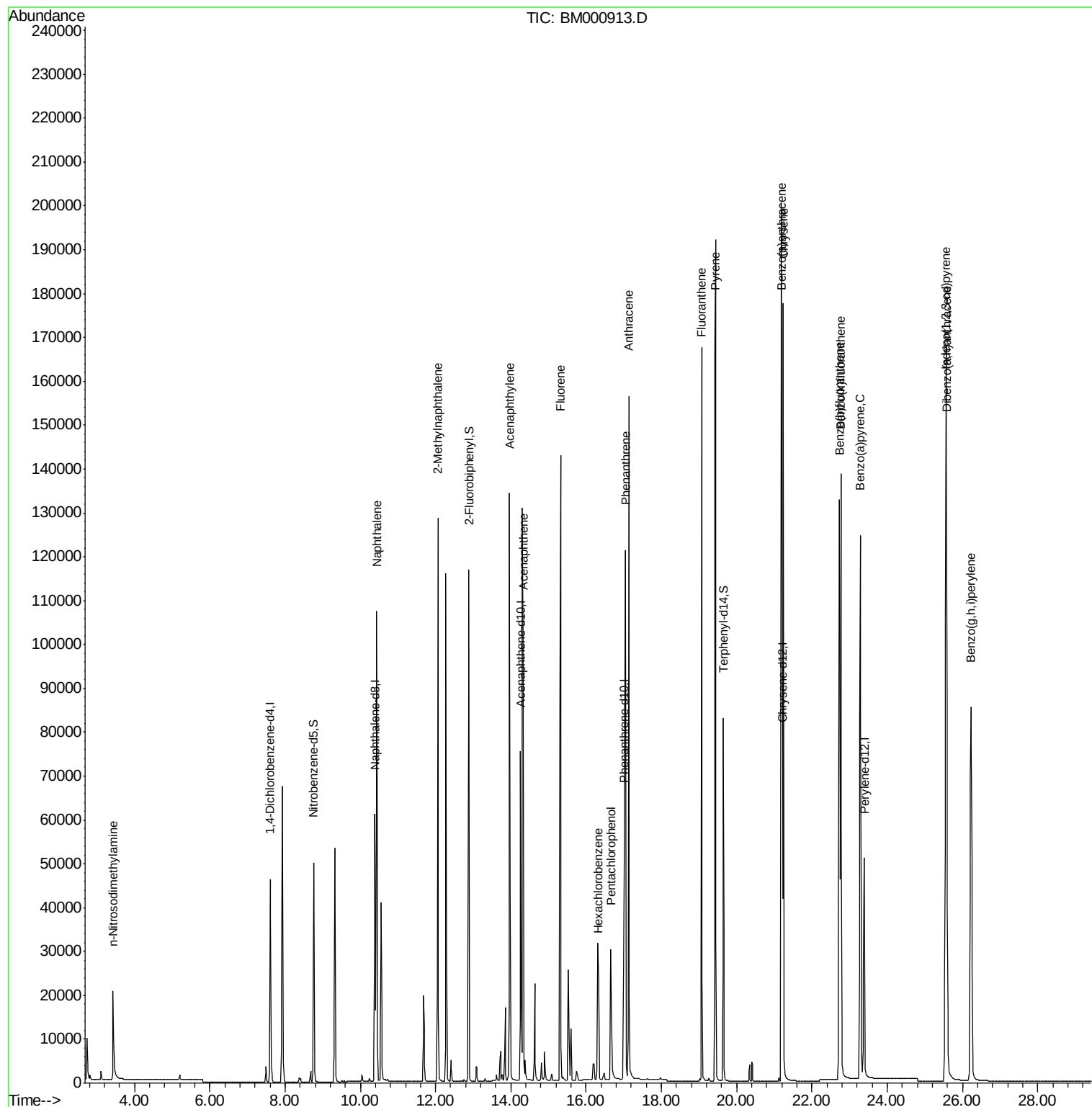
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	23143	5.00	ng	0.00
4) Naphthalene-d8	10.39	136	80219	5.00	ng	0.00
8) Acenaphthene-d10	14.26	164	40807	5.00	ng	0.00
13) Phenanthrene-d10	17.01	188	83888	5.00	ng	0.00
19) Chrysene-d12	21.21	240	77779	5.00	ng	0.00
25) Perylene-d12	23.39	264	70276	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.76	82	39816	8.08	ng	0.00
9) 2-Fluorobiphenyl	12.88	172	110525	8.73	ng	0.00
21) Terphenyl-d14	19.65	244	82059	8.77	ng	0.00
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.43	42	18700	7.14	ng	# 98
6) Naphthalene	10.44	128	143087	7.68	ng	99
7) 2-Methylnaphthalene	12.06	142	92275	7.83	ng	95
10) Acenaphthylene	13.97	152	153244	8.49	ng	100
11) Acenaphthene	14.33	154	88268	7.06	ng	98
12) Fluorene	15.32	166	109590	7.82	ng	100
14) Hexachlorobenzene	16.33	284	36557	7.44	ng	# 43
15) Pentachlorophenol	16.66	266	26829	11.28	ng	# 86
16) Phenanthrene	17.05	178	165498	7.20	ng	99
17) Anthracene	17.13	178	175674	9.12	ng	100
18) Fluoranthene	19.08	202	185616	8.17	ng	100
20) Pyrene	19.44	202	200364	7.90	ng	100
22) Benzo(a)anthracene	21.19	228	178914	8.05	ng	99
23) Chrysene	21.24	228	177833	7.64	ng	# 88
24) Indeno(1,2,3-cd)pyrene	25.56	276	186479	7.74	ng	99
26) Benzo(b)fluoranthene	22.73	252	190517	8.61	ng	98
27) Benzo(k)fluoranthene	22.78	252	160194	7.54	ng	98
28) Benzo(a)pyrene	23.29	252	165171	8.69	ng	96
29) Dibenzo(a,h)anthracene	25.58	278	150673	8.03	ng	97
30) Benzo(g,h,i)perylene	26.23	276	160450	7.92	ng	99

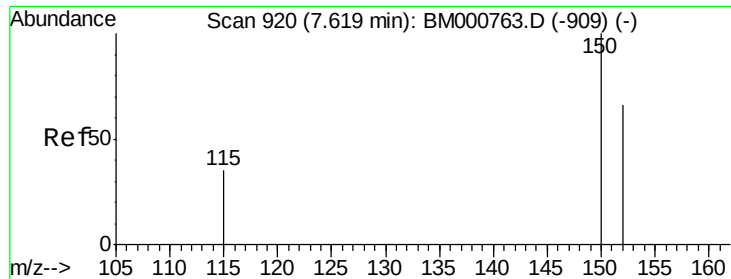
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA_M
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Quant Time: Apr 09 03:48:11 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM033115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 09 03:29:56 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.61 min Scan# 918

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

Instrument :

BNA_M

ClientSampleId :

PB82543BSD

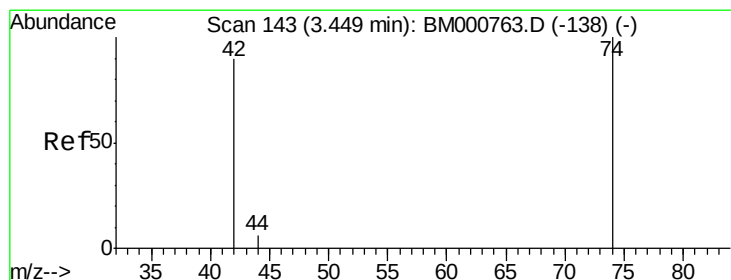
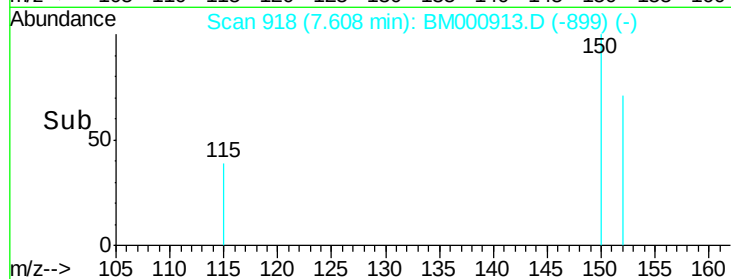
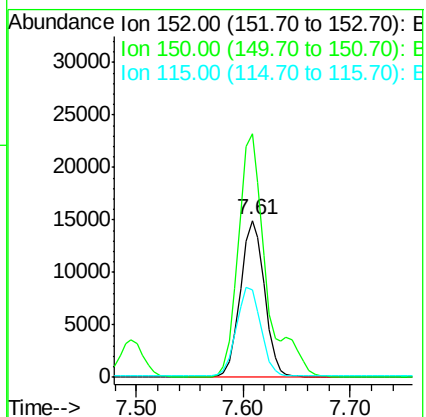
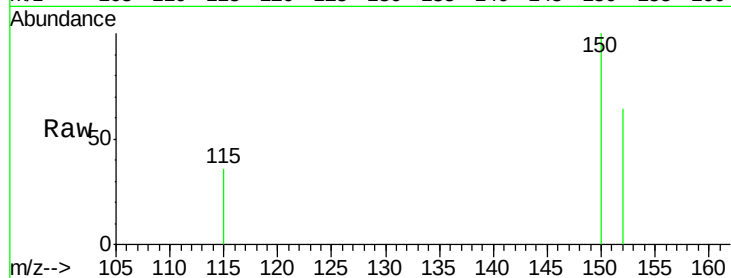
Tgt Ion:152 Resp: 23143

Ion Ratio Lower Upper

152 100

150 155.2 120.8 181.2

115 56.1 42.7 64.1



#3

n-Nitrosodimethylamine

Concen: 7.14 ng

RT: 3.43 min Scan# 139

Delta R.T. -0.01 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

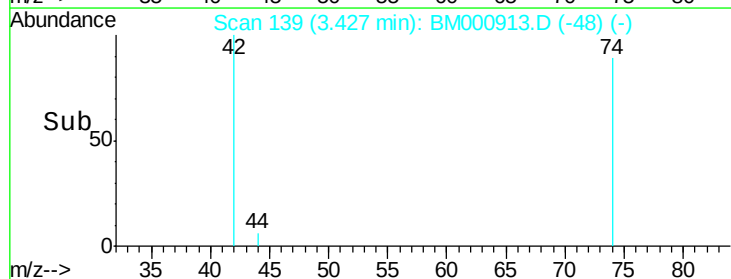
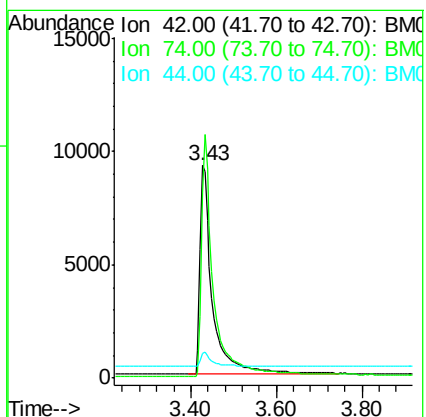
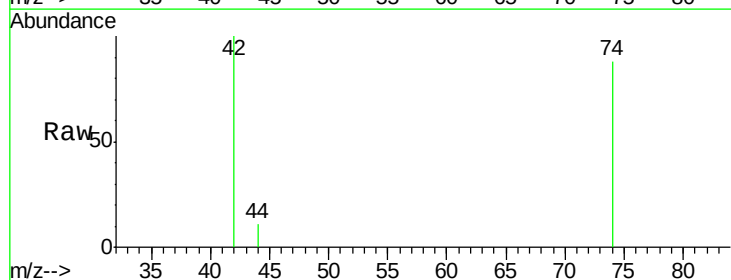
Tgt Ion: 42 Resp: 18700

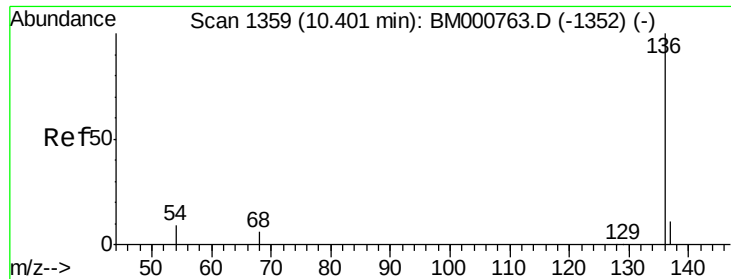
Ion Ratio Lower Upper

42 100

74 114.6 93.6 140.4

44 5.9 6.3 9.5#





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.39 min Scan# 1358

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

Instrument :

BNA_M

ClientSampleId :

PB82543BSD

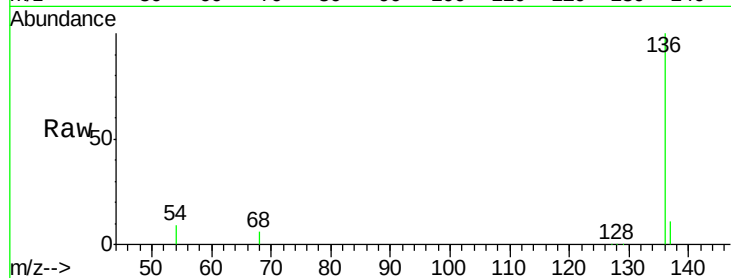
Tgt Ion:136 Resp: 80219

Ion Ratio Lower Upper

136 100

137 10.6 8.6 12.8

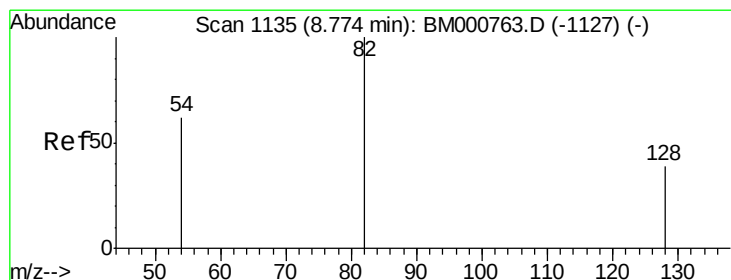
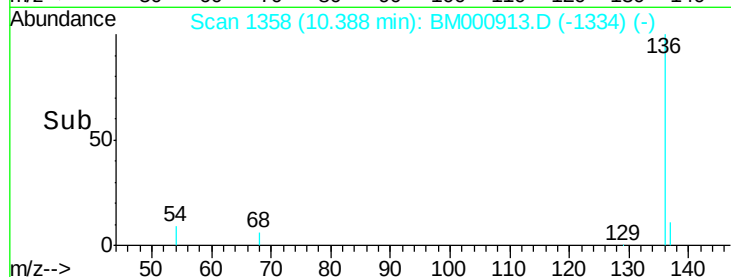
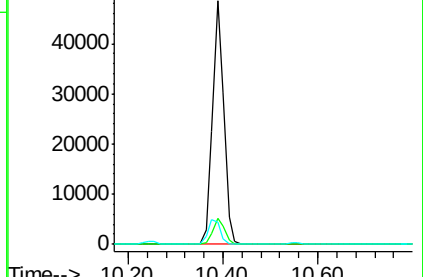
54 9.2 7.0 10.6



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: 8.08 ng

RT: 8.76 min Scan# 1133

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

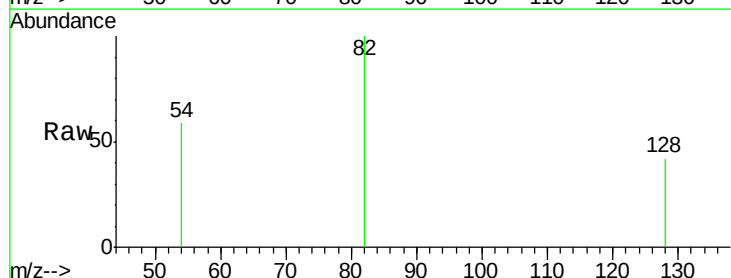
Tgt Ion: 82 Resp: 39816

Ion Ratio Lower Upper

82 100

128 41.9 32.2 48.2

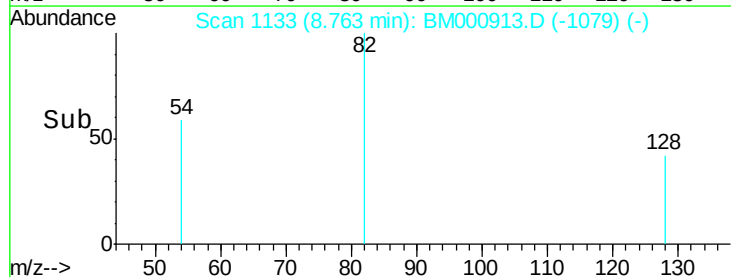
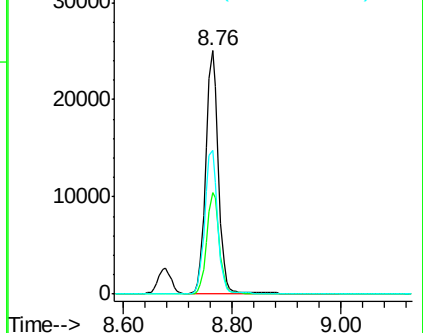
54 58.9 50.2 75.4

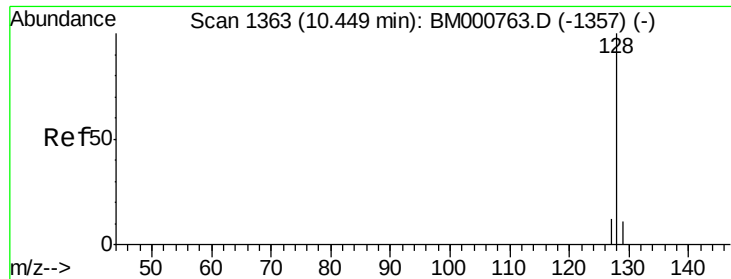


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#6

Naphthalene

Concen: 7.68 ng

RT: 10.44 min Scan# 1362

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

Instrument :

BNA_M

ClientSampleId :

PB82543BSD

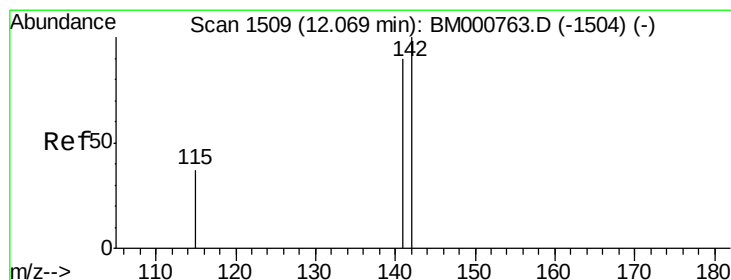
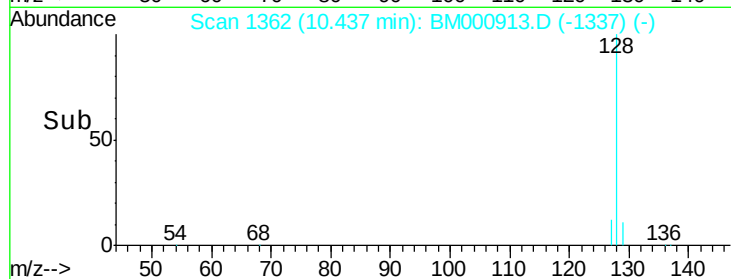
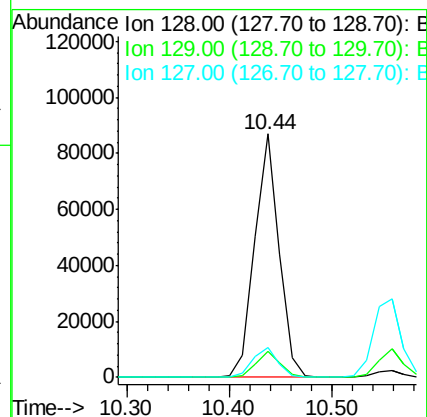
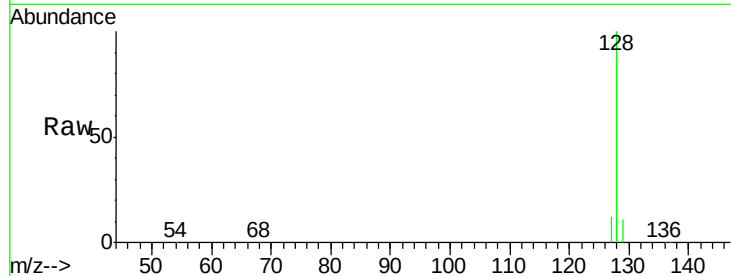
Tgt Ion:128 Resp: 143087

Ion Ratio Lower Upper

128 100

129 10.9 8.9 13.3

127 12.3 10.0 15.0



#7

2-Methylnaphthalene

Concen: 7.83 ng

RT: 12.06 min Scan# 1508

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

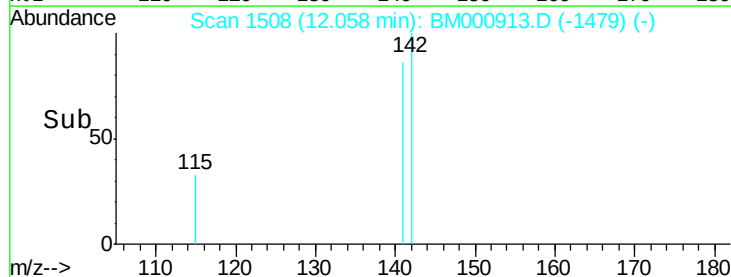
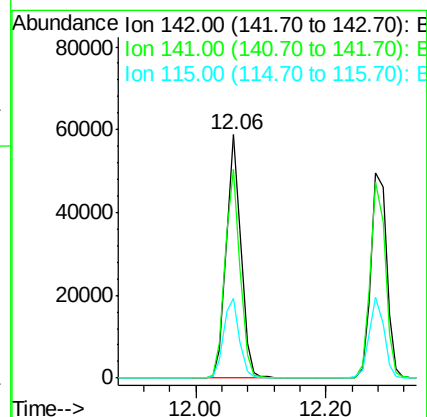
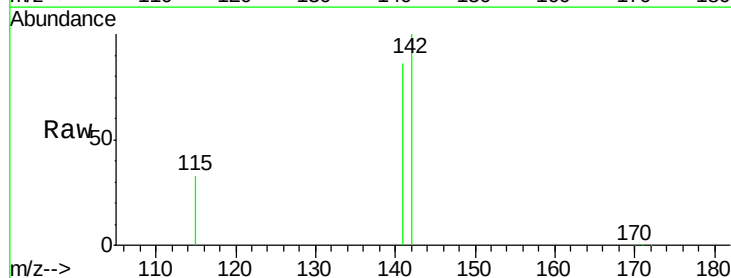
Tgt Ion:142 Resp: 92275

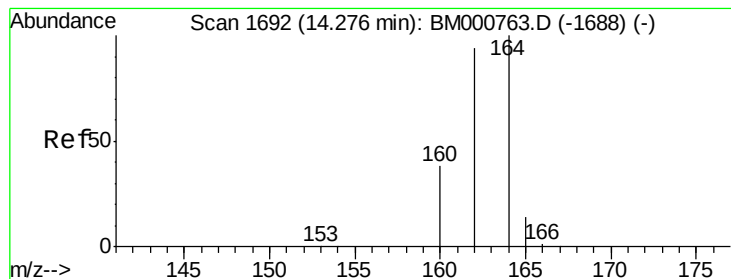
Ion Ratio Lower Upper

142 100

141 85.9 72.3 108.5

115 33.0 29.5 44.3





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.26 min Scan# 1691

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

Instrument :

BNA_M

ClientSampleId :

PB82543BSD

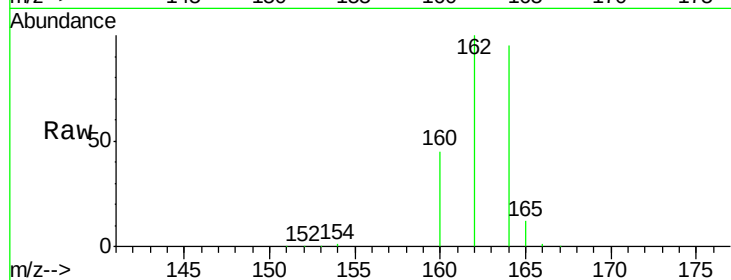
Tgt Ion:164 Resp: 40807

Ion Ratio Lower Upper

164 100

162 104.9 75.4 113.2

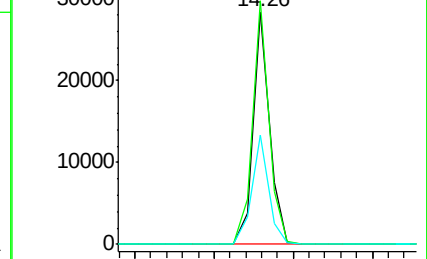
160 46.9 30.8 46.2#



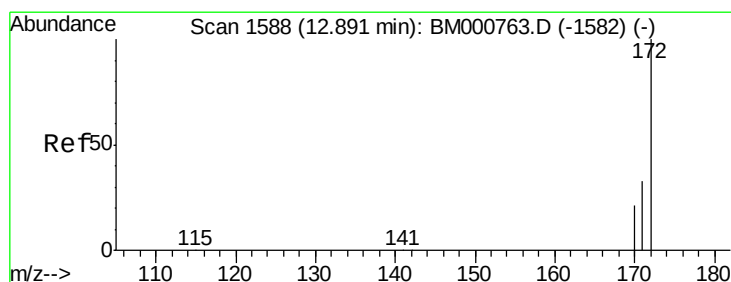
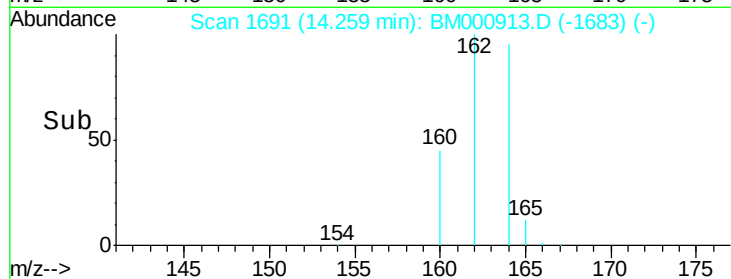
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



Time-->



#9

2-Fluorobiphenyl

Concen: 8.73 ng

RT: 12.88 min Scan# 1587

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

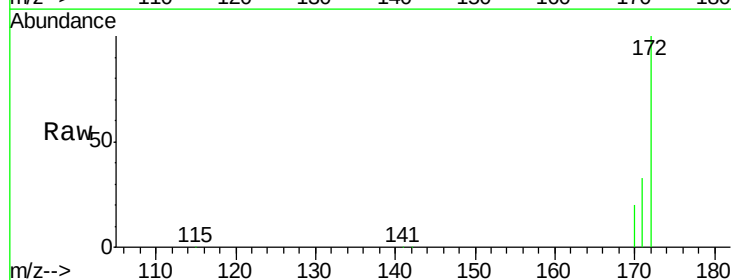
Tgt Ion:172 Resp: 110525

Ion Ratio Lower Upper

172 100

171 32.5 26.6 39.8

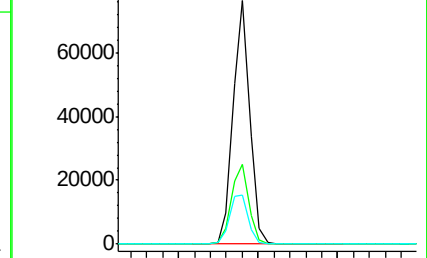
170 20.1 17.1 25.7



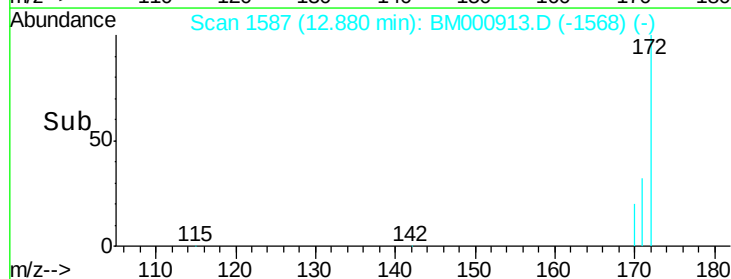
Abundance Ion 172.00 (171.70 to 172.70): E

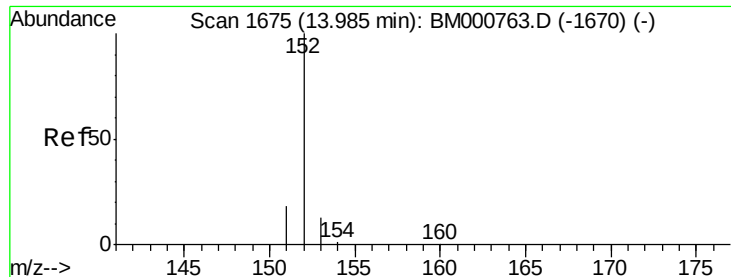
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



Time-->





#10

Acenaphthylene

Concen: 8.49 ng

RT: 13.97 min Scan# 1674

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

Instrument :

BNA_M

ClientSampleId :

PB82543BSD

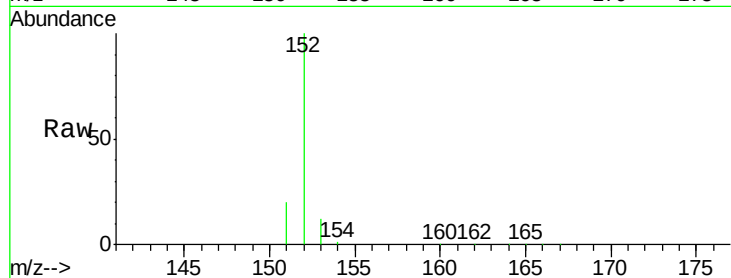
Tgt Ion:152 Resp: 153244

Ion Ratio Lower Upper

152 100

151 19.1 15.1 22.7

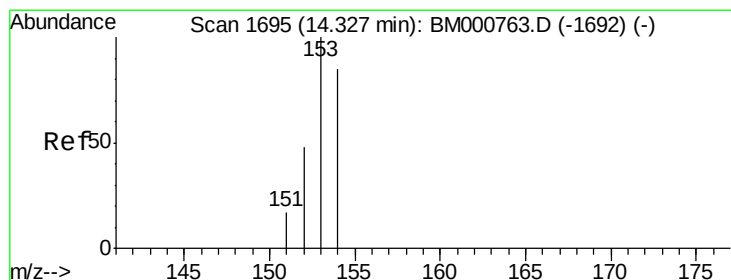
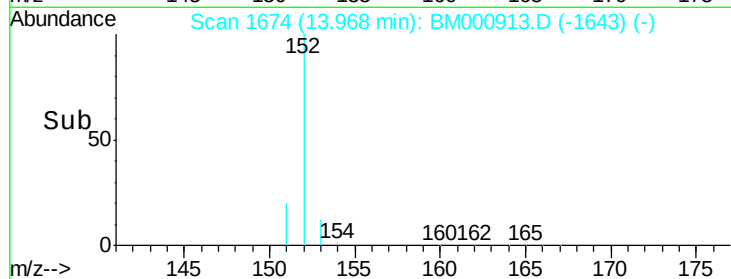
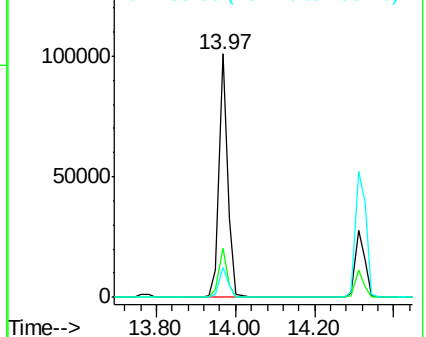
153 12.8 10.2 15.4



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: 7.06 ng

RT: 14.33 min Scan# 1695

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

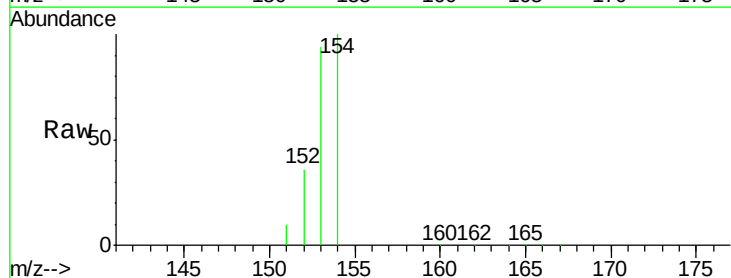
Tgt Ion:154 Resp: 88268

Ion Ratio Lower Upper

154 100

153 111.1 87.3 130.9

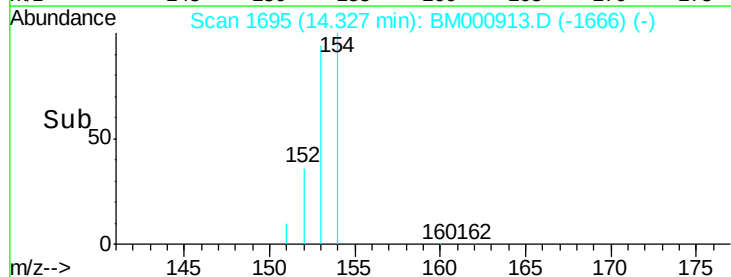
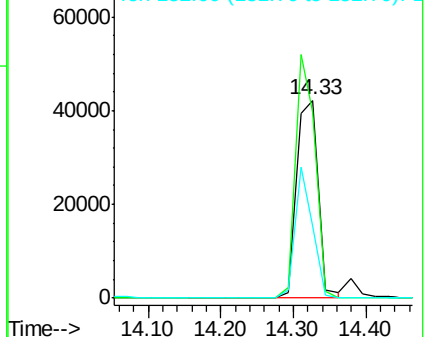
152 53.0 43.0 64.6

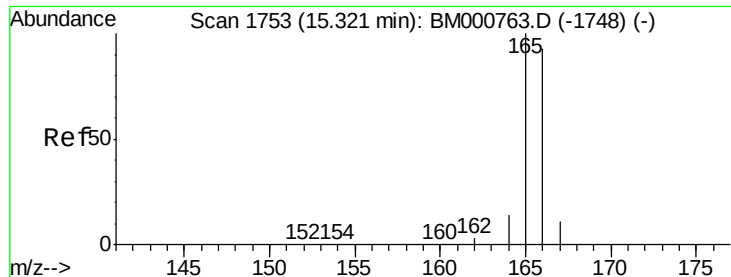


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#12

Fluorene

Concen: 7.82 ng

RT: 15.32 min Scan# 1753

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

Instrument :

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ClientSampleId :

PB82543BSD

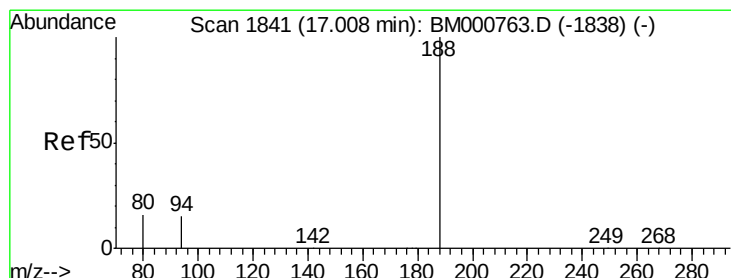
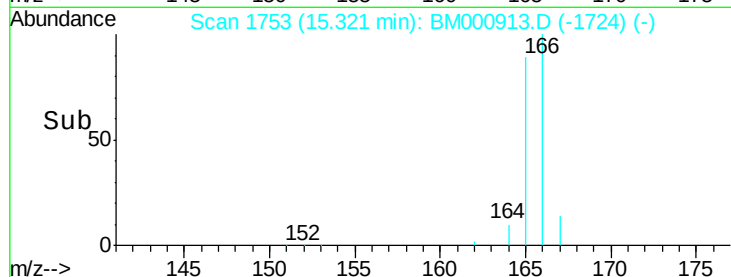
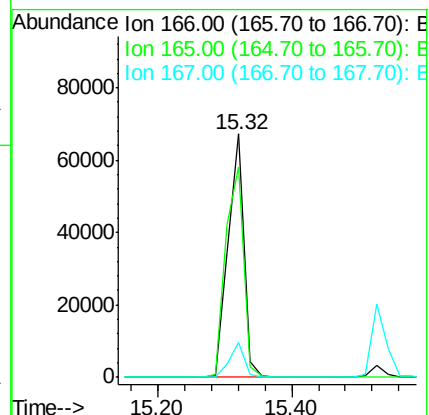
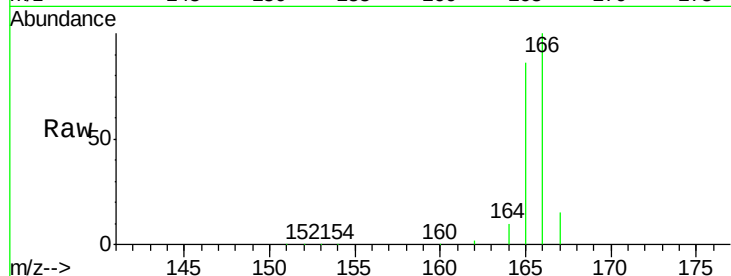
Tgt Ion:166 Resp: 109590

Ion Ratio Lower Upper

166 100

165 97.9 78.2 117.2

167 13.4 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: BM000913.D

Acq: 08 Apr 2015 17:25

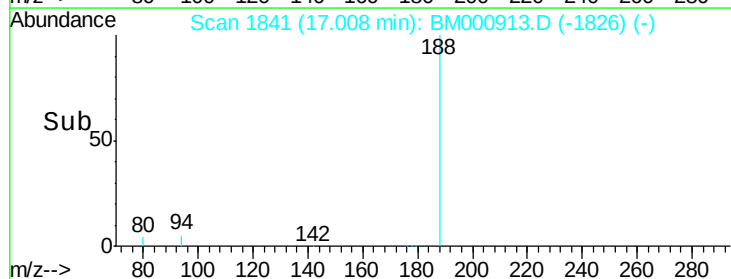
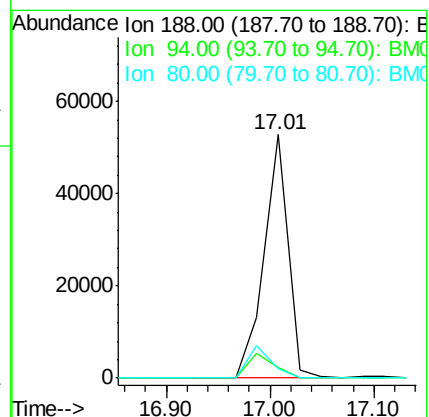
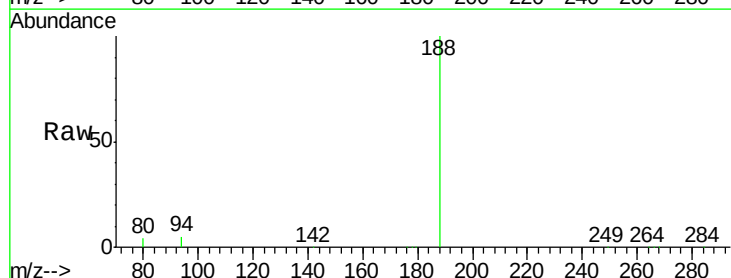
Tgt Ion:188 Resp: 83888

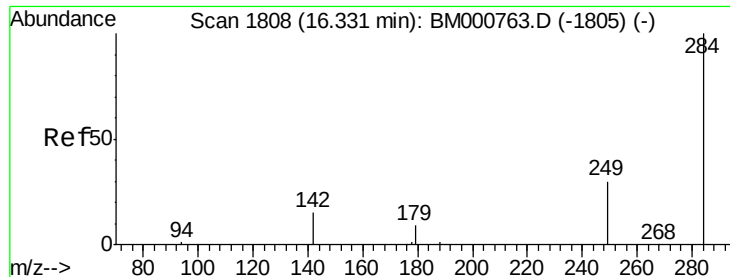
Ion Ratio Lower Upper

188 100

94 4.6 12.0 18.0#

80 4.0 12.8 19.2#

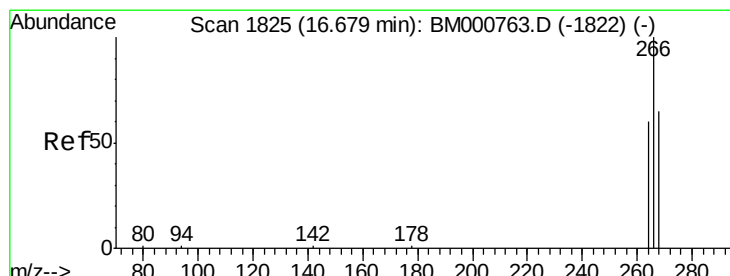
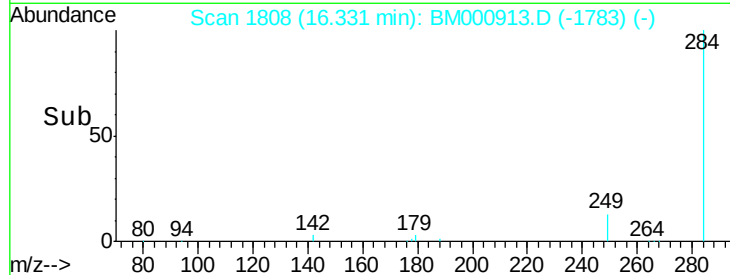
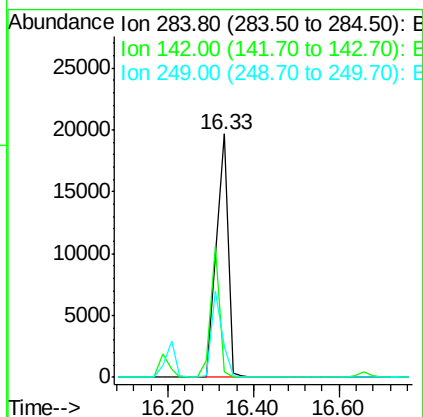
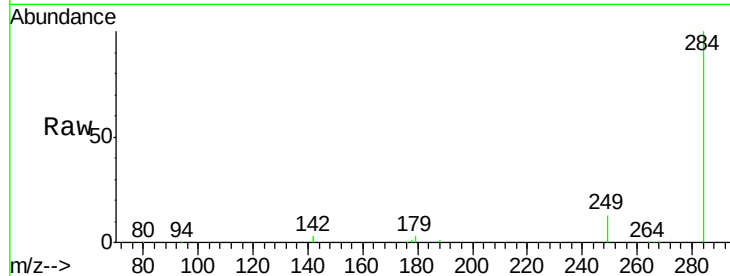




#14
Hexachlorobenzene
Concen: 7.44 ng
RT: 16.33 min Scan# 1808
Delta R.T. -0.00 min
Lab File: BM000913.D
Acq: 08 Apr 2015 17:25

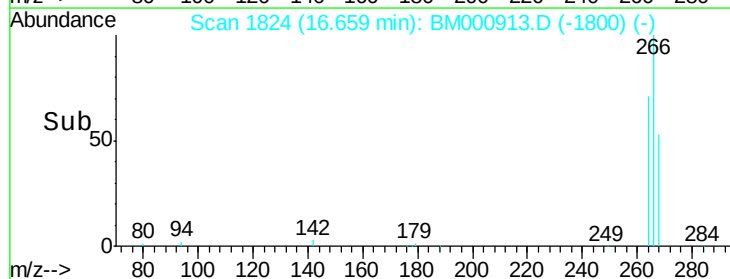
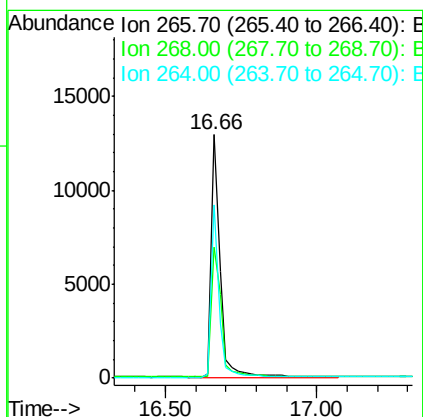
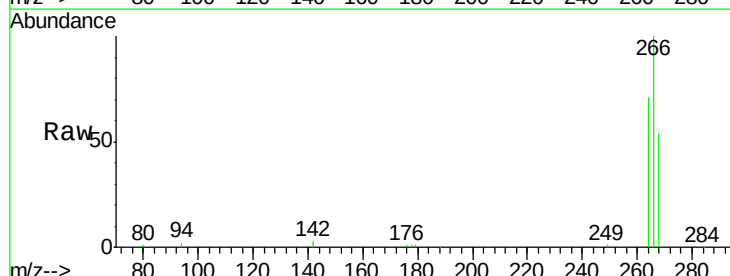
Instrument :
BNA_M
ClientSampleId :
PB82543BSD

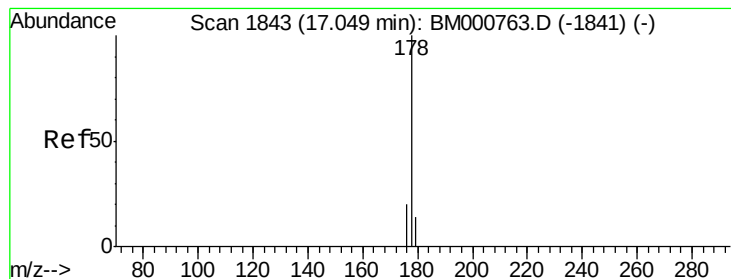
Tgt Ion: 284 Resp: 36557
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 0.0 25.2 37.8#



#15
Pentachlorophenol
Concen: 11.28 ng
RT: 16.66 min Scan# 1824
Delta R.T. -0.00 min
Lab File: BM000913.D
Acq: 08 Apr 2015 17:25

Tgt Ion: 266 Resp: 26829
Ion Ratio Lower Upper
266 100
268 53.5 55.0 82.6#
264 71.0 51.0 76.4





#16

Phenanthrene

Concen: 7.20 ng

RT: 17.05 min Scan# 1843

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

Instrument :

BNA_M

ClientSampleId :

PB82543BSD

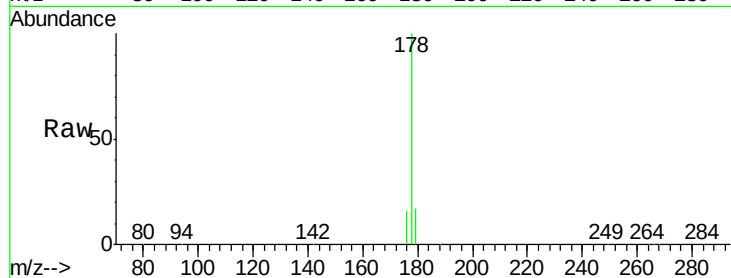
Tgt Ion:178 Resp: 165498

Ion Ratio Lower Upper

178 100

176 18.4 15.3 22.9

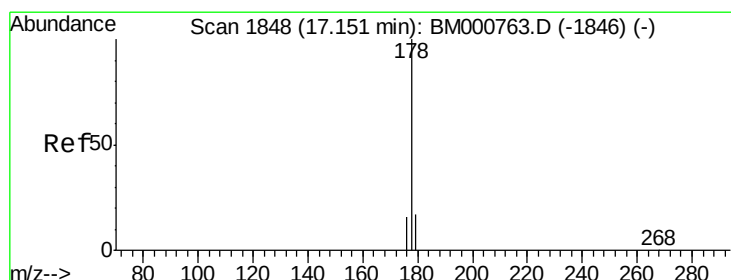
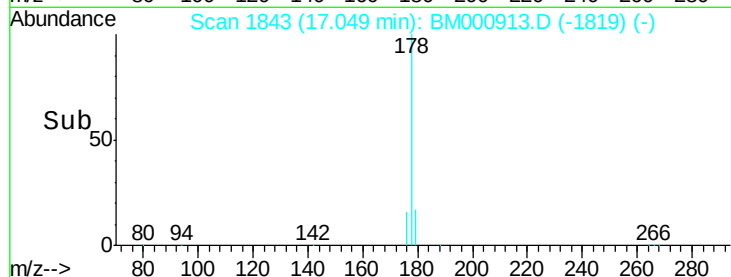
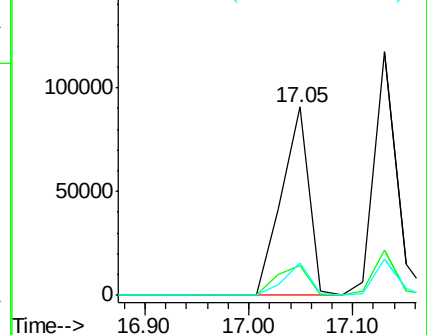
179 15.7 12.2 18.2



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: 9.12 ng

RT: 17.13 min Scan# 1847

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

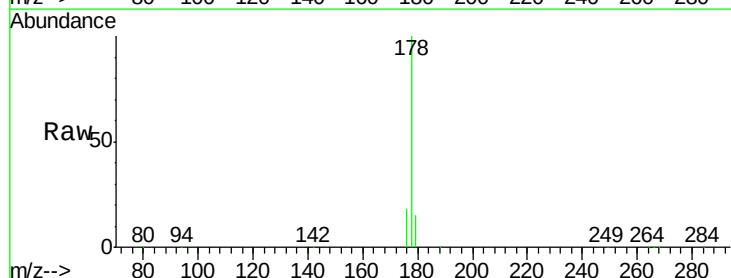
Tgt Ion:178 Resp: 175674

Ion Ratio Lower Upper

178 100

176 18.2 14.6 22.0

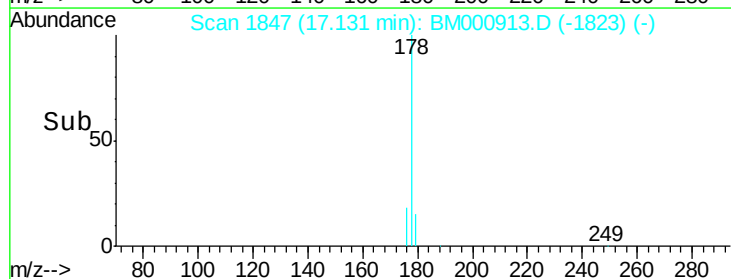
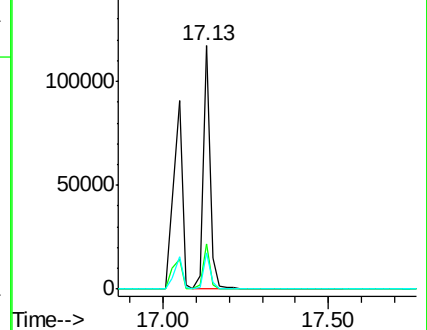
179 15.3 12.2 18.4

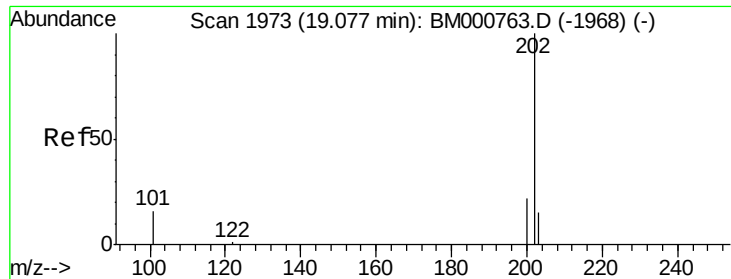


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

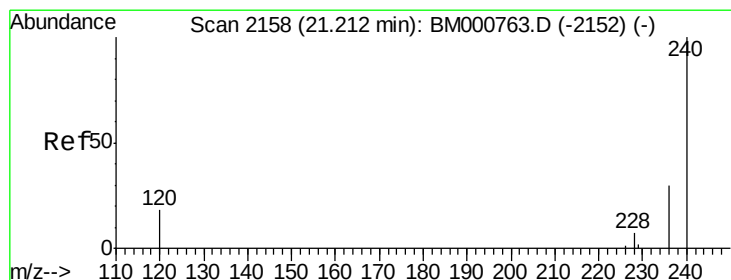
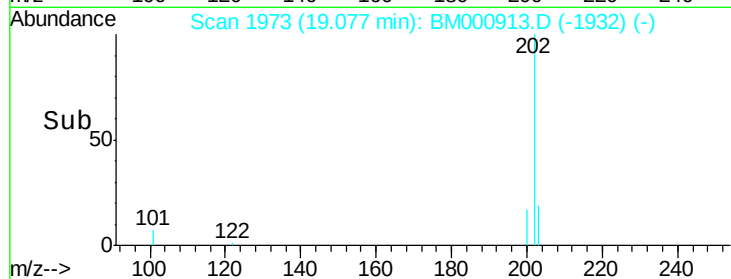
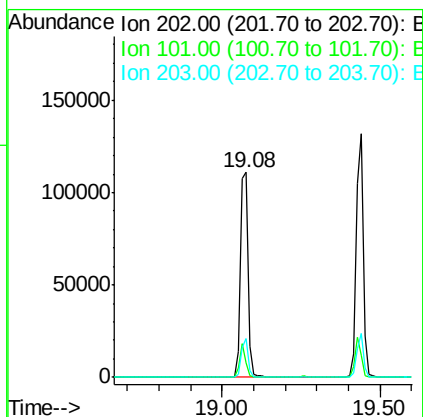
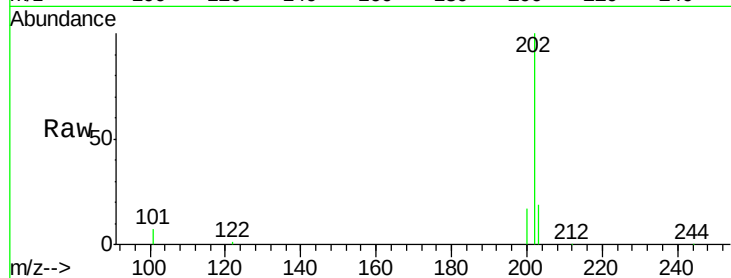




#18
 Fluoranthene
 Concen: 8.17 ng
 RT: 19.08 min Scan# 1973
 Delta R.T. -0.00 min
 Lab File: BM000913.D
 Acq: 08 Apr 2015 17:25

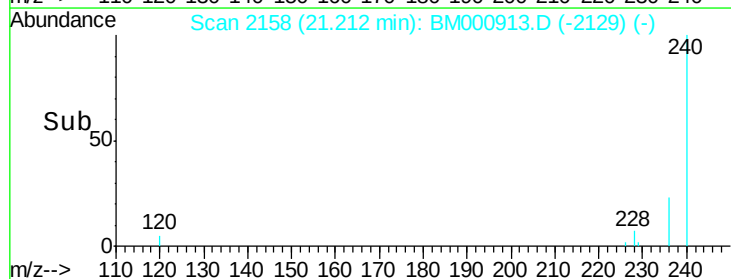
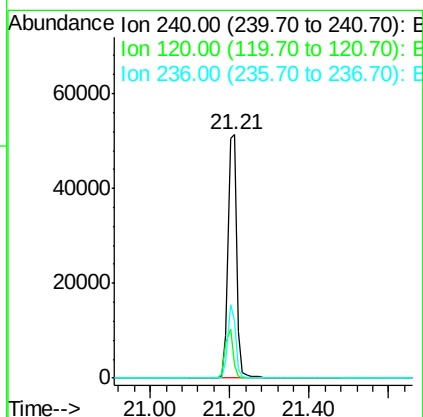
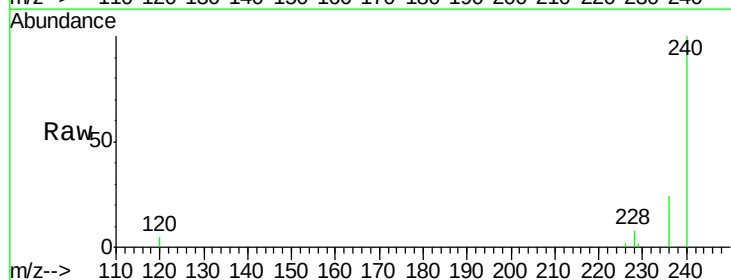
Instrument :
 BNA_M
 ClientSampleId :
 PB82543BSD

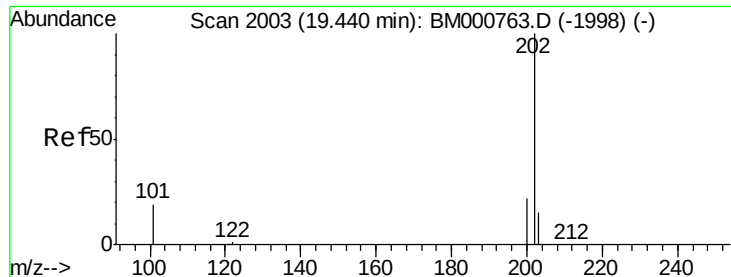
Tgt Ion:202 Resp: 185616
 Ion Ratio Lower Upper
 202 100
 101 12.9 10.5 15.7
 203 17.3 13.8 20.8



#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.21 min Scan# 2158
 Delta R.T. -0.00 min
 Lab File: BM000913.D
 Acq: 08 Apr 2015 17:25

Tgt Ion:240 Resp: 77779
 Ion Ratio Lower Upper
 240 100
 120 5.4 14.9 22.3#
 236 23.5 24.2 36.4#

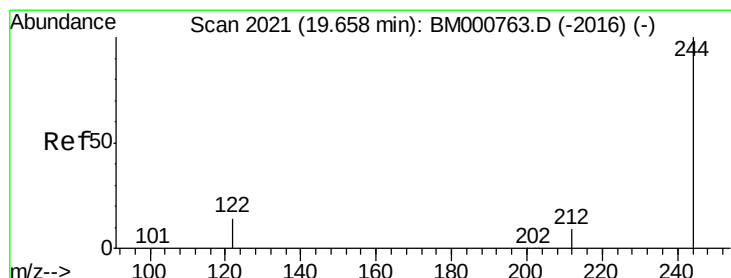
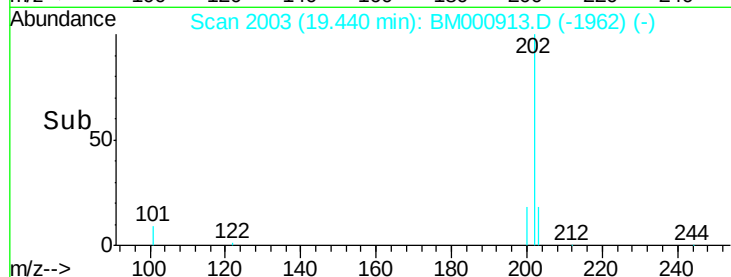
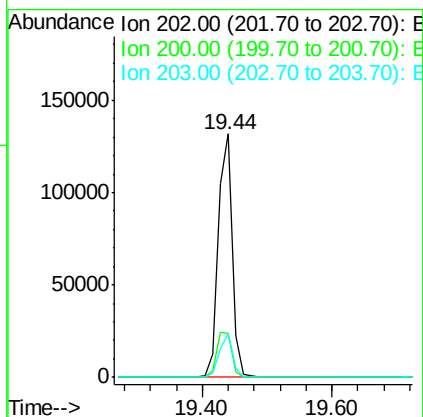
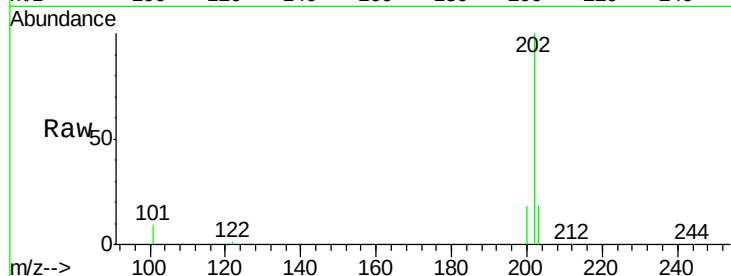




#20
Pyrene
Concen: 7.90 ng
RT: 19.44 min Scan# 2003
Delta R.T. -0.00 min
Lab File: BM000913.D
Acq: 08 Apr 2015 17:25

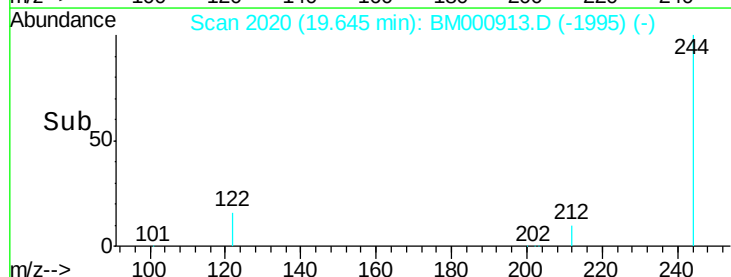
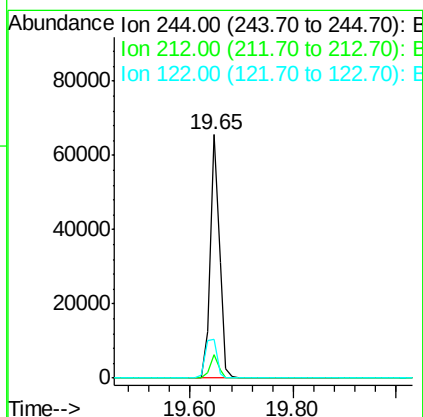
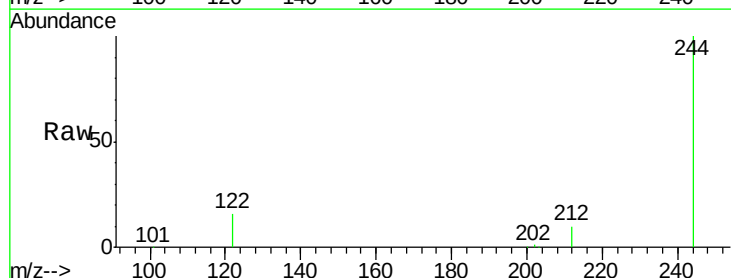
Instrument :
BNA_M
ClientSampleId :
PB82543BSD

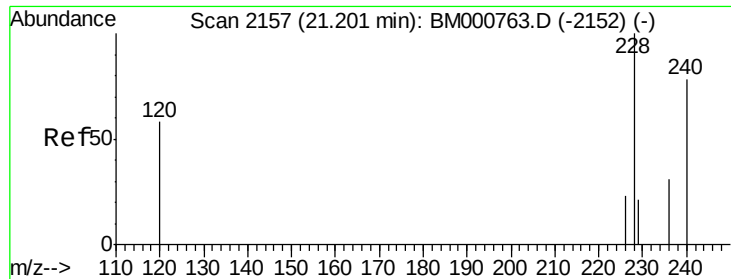
Tgt Ion:202 Resp: 200364
Ion Ratio Lower Upper
202 100
200 20.3 16.2 24.2
203 17.5 13.9 20.9



#21
Terphenyl-d14
Concen: 8.77 ng
RT: 19.65 min Scan# 2020
Delta R.T. -0.00 min
Lab File: BM000913.D
Acq: 08 Apr 2015 17:25

Tgt Ion:244 Resp: 82059
Ion Ratio Lower Upper
244 100
212 9.6 7.8 11.6
122 16.1 11.8 17.8





#22

Benzo(a)anthracene

Concen: 8.05 ng

RT: 21.19 min Scan# 2156

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

Instrument :

BNA_M

ClientSampleId :

PB82543BSD

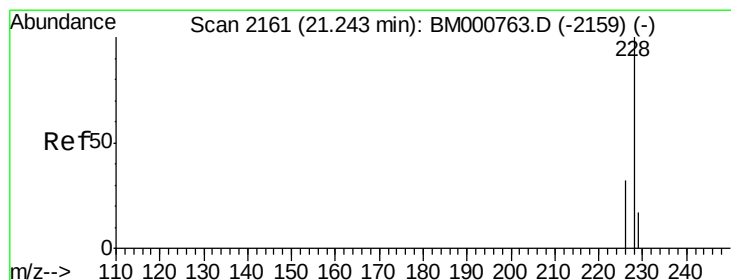
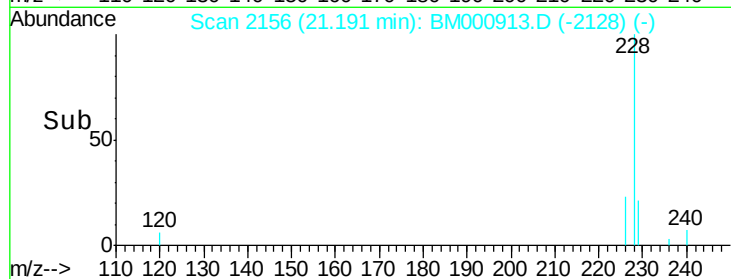
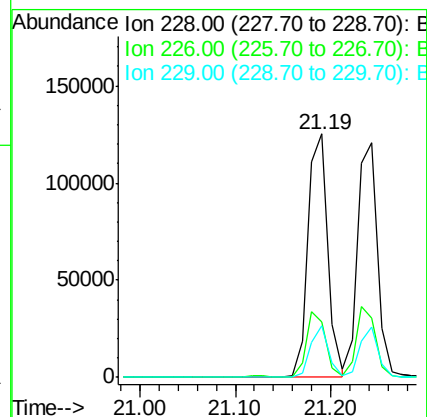
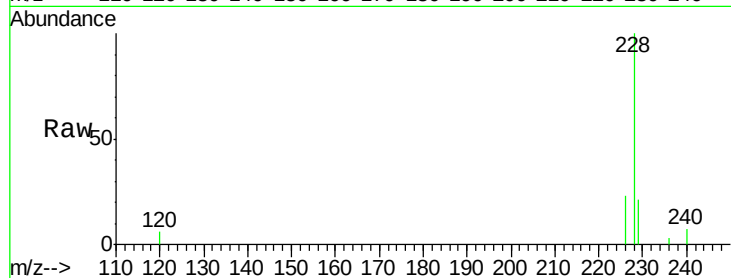
Tgt Ion:228 Resp: 178914

Ion Ratio Lower Upper

228 100

226 23.0 18.6 27.8

229 21.0 17.2 25.8



#23

Chrysene

Concen: 7.64 ng

RT: 21.24 min Scan# 2161

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

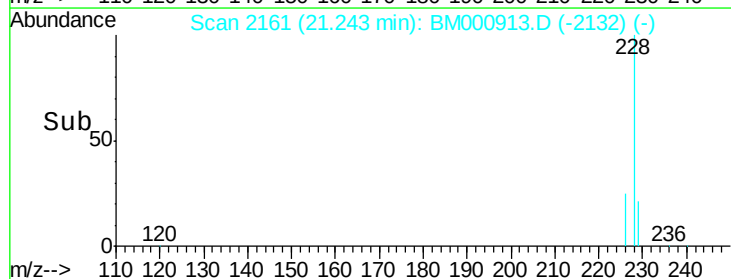
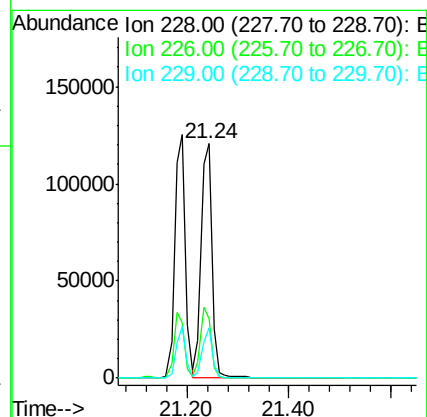
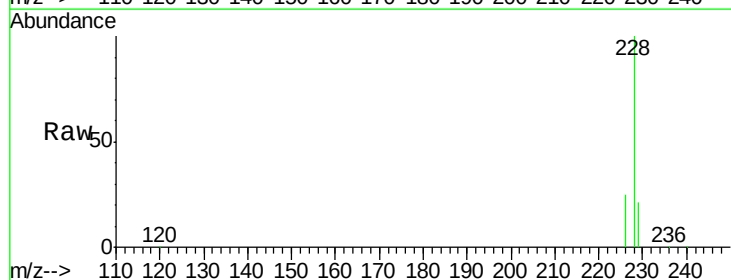
Tgt Ion:228 Resp: 177833

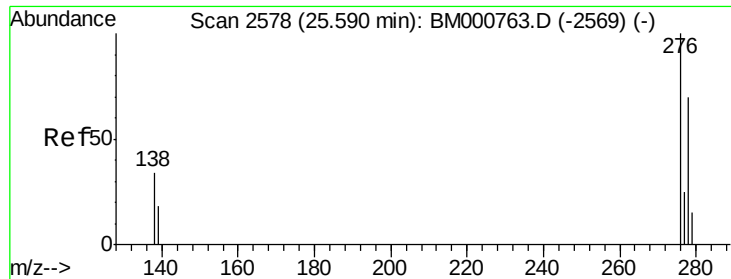
Ion Ratio Lower Upper

228 100

226 25.3 25.8 38.8#

229 21.4 13.8 20.6#





#24

Indeno(1,2,3-cd)pyrene

Concen: 7.74 ng

RT: 25.56 min Scan# 2575

Delta R.T. -0.01 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

Instrument :

BNA_M

ClientSampleId :

PB82543BSD

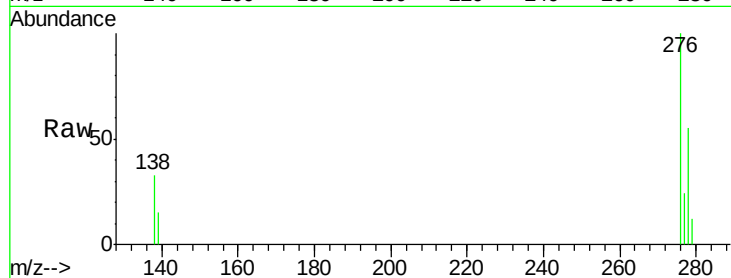
Tgt Ion:276 Resp: 186479

Ion Ratio Lower Upper

276 100

138 33.6 27.4 41.2

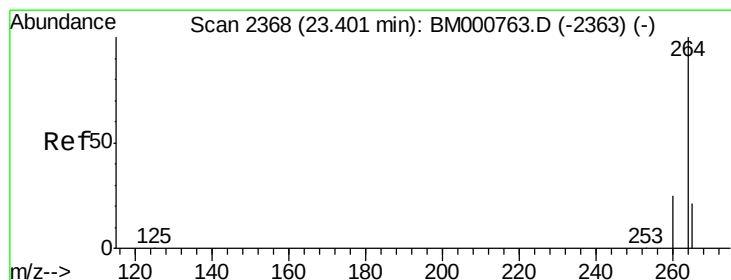
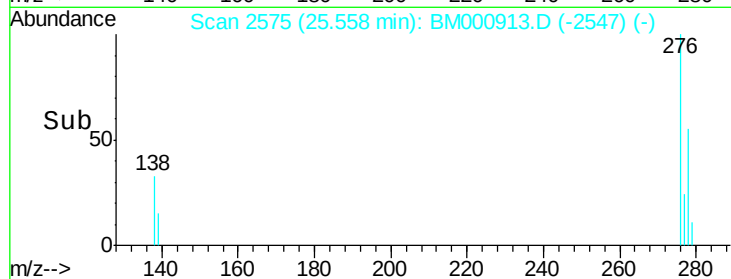
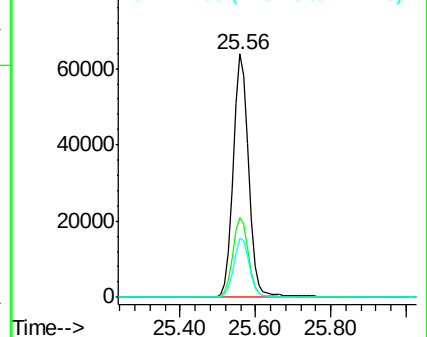
277 24.5 19.7 29.5



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: 23.39 min Scan# 2367

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

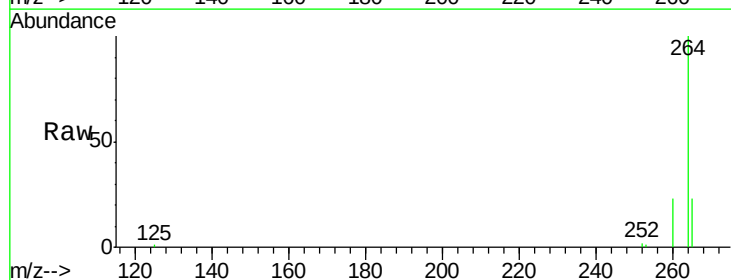
Tgt Ion:264 Resp: 70276

Ion Ratio Lower Upper

264 100

260 23.5 20.1 30.1

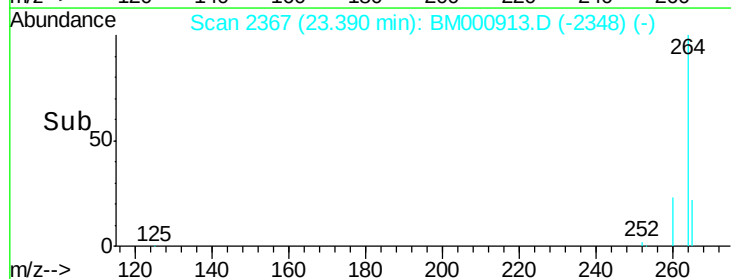
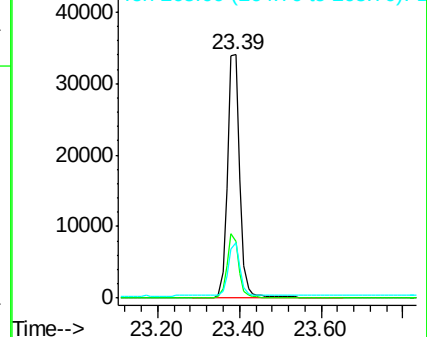
265 22.7 17.4 26.0

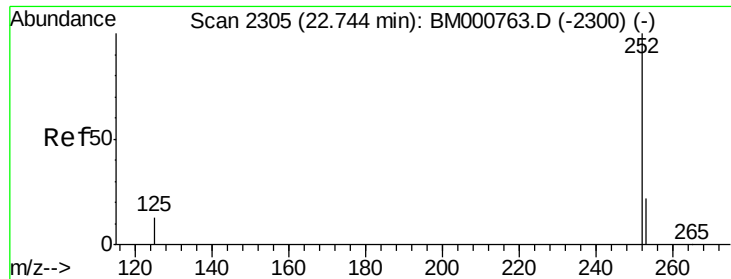


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#26

Benzo(b)fluoranthene

Concen: 8.61 ng

RT: 22.73 min Scan# 2304

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

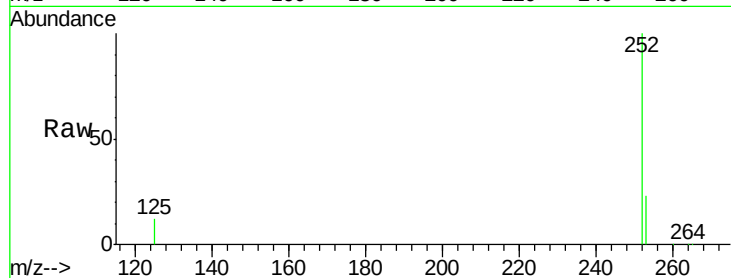
Instrument :

BNA_M

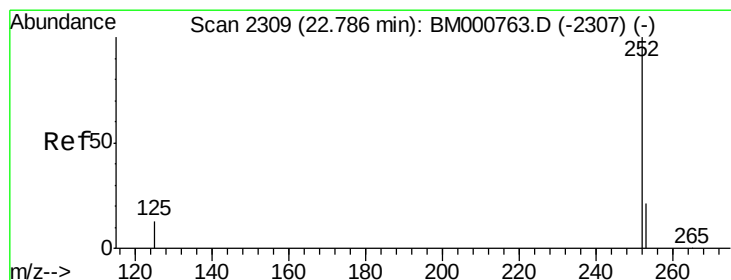
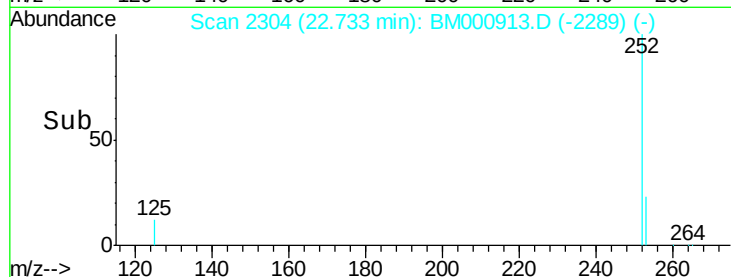
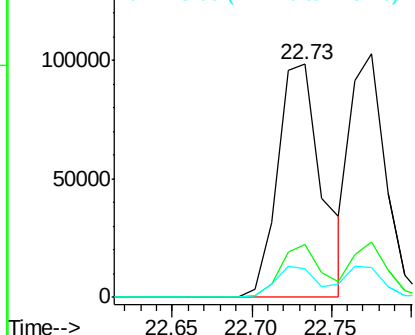
ClientSampleId :

PB82543BSD

Tgt Ion:	252	Resp:	190517
Ion Ratio		Lower	Upper
252	100		
253	22.9	18.5	27.7
125	12.0	10.6	16.0



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



#27

Benzo(k)fluoranthene

Concen: 7.54 ng

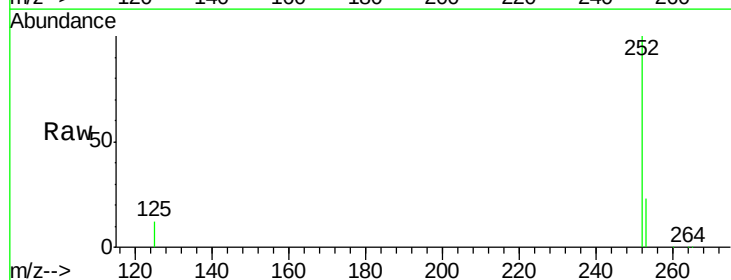
RT: 22.78 min Scan# 2308

Delta R.T. -0.00 min

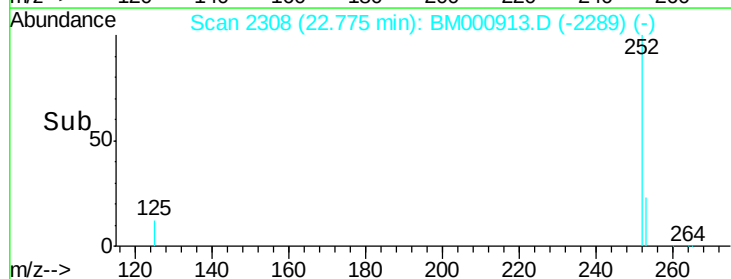
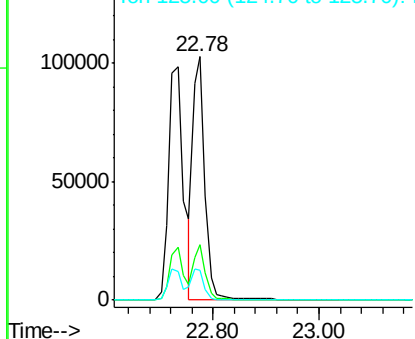
Lab File: BM000913.D

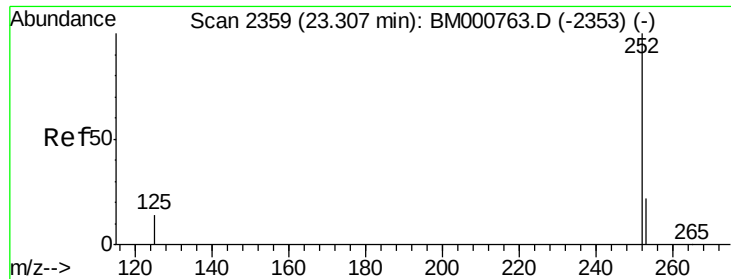
Acq: 08 Apr 2015 17:25

Tgt Ion:	252	Resp:	160194
Ion Ratio		Lower	Upper
252	100		
253	22.8	17.9	26.9
125	12.0	10.8	16.2



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





#28

Benzo(a)pyrene

Concen: 8.69 ng

RT: 23.29 min Scan# 2357

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

Instrument :

BNA_M

ClientSampleId :

PB82543BSD

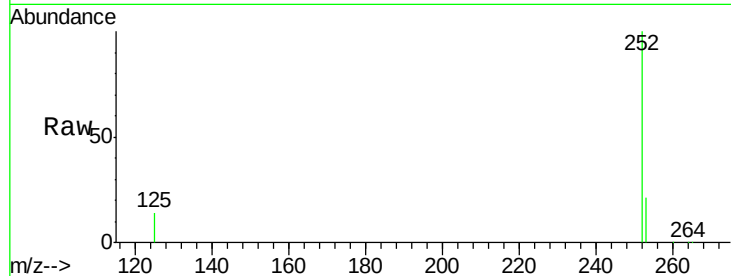
Tgt Ion:252 Resp: 165171

Ion Ratio Lower Upper

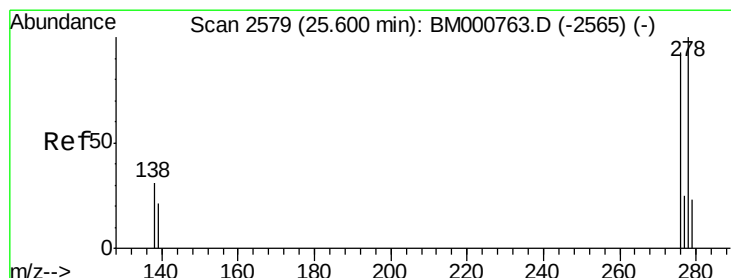
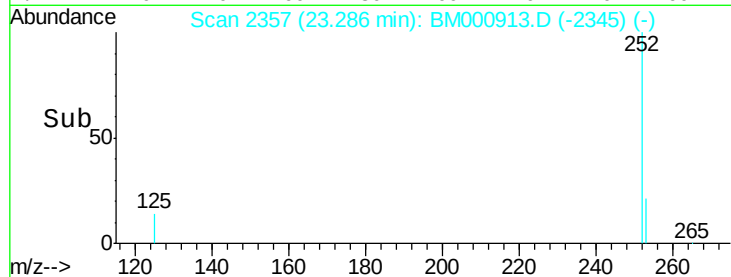
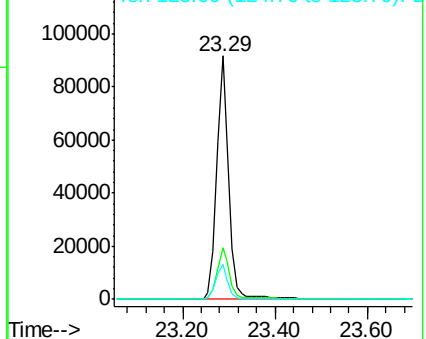
252 100

253 21.4 19.4 29.2

125 14.3 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



#29

Dibenzo(a,h)anthracene

Concen: 8.03 ng

RT: 25.58 min Scan# 2577

Delta R.T. -0.00 min

Lab File: BM000913.D

Acq: 08 Apr 2015 17:25

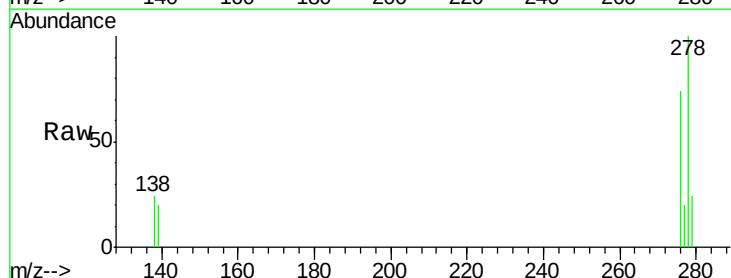
Tgt Ion:278 Resp: 150673

Ion Ratio Lower Upper

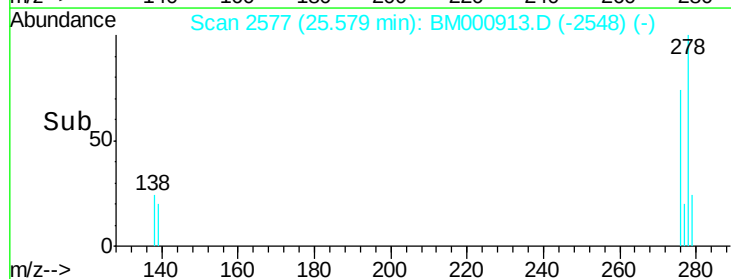
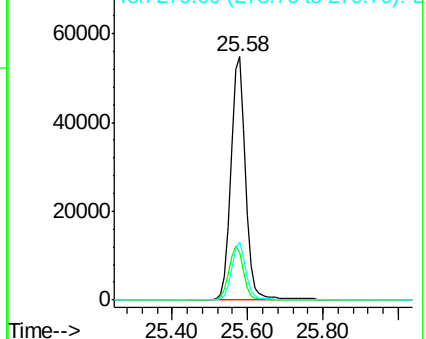
278 100

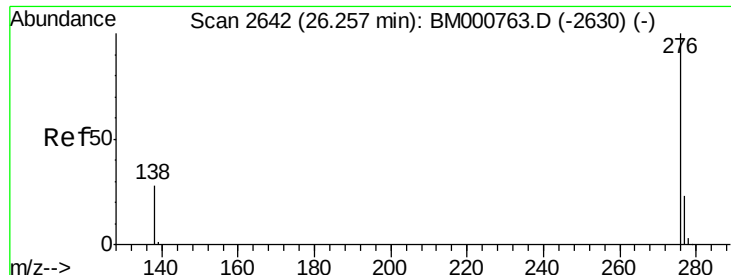
139 19.7 17.8 26.6

279 23.8 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





#30

Benzo(g,h,i)perylene

Concen: 7.92 ng

RT: 26.23 min Scan# 2639

Delta R.T. -0.00 min

Lab File: BM000913.D

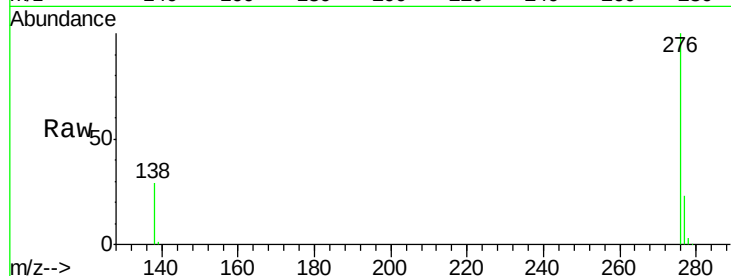
Acq: 08 Apr 2015 17:25

Instrument :

BNA_M

ClientSampleId :

PB82543BSD



Tgt Ion: 276 Resp: 160450

Ion Ratio Lower Upper

276 100

277 23.0 19.1 28.7

138 29.1 23.1 34.7

