

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM042215\
 Data File : BM001109.D
 Acq On : 22 Apr 2015 16:22
 Operator : TP/IZ
 Sample : PB82802BSD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PB82802BSD

Quant Time: Apr 23 03:43:58 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM041815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 20 08:05:22 2015
 Response via : Initial Calibration

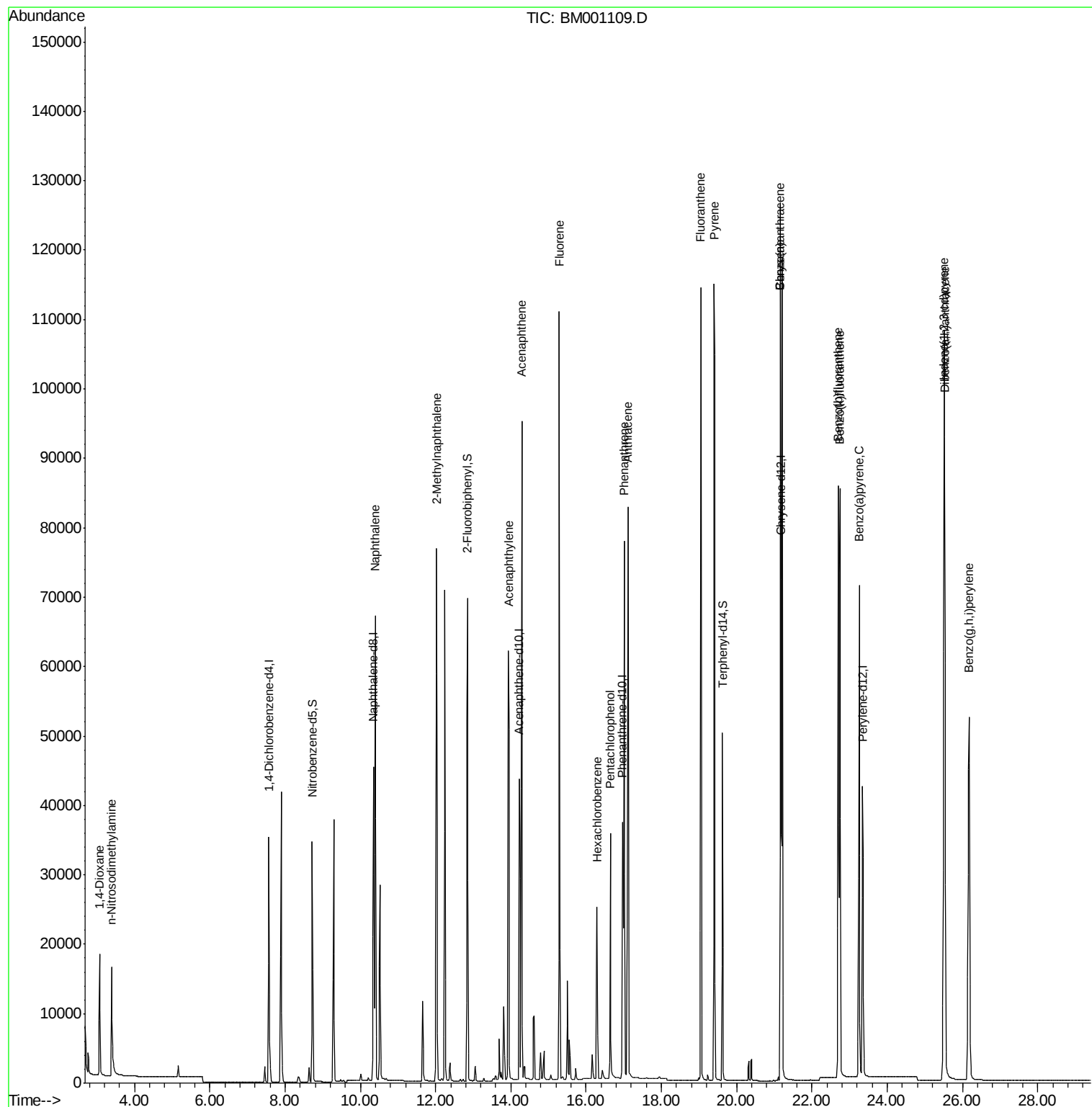
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	17304	5.00	ng	0.00
4) Naphthalene-d8	10.35	136	58993	5.00	ng	-0.01
8) Acenaphthene-d10	14.22	164	29000	5.00	ng	-0.02
13) Phenanthrene-d10	16.97	188	55830	5.00	ng	-0.02
19) Chrysene-d12	21.18	240	54628	5.00	ng	-0.01
25) Perylene-d12	23.35	264	52342	5.00	ng	-0.01
System Monitoring Compounds						
5) Nitrobenzene-d5	8.73	82	28017	9.09	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	66103	6.90	ng	-0.01
21) Terphenyl-d14	19.62	244	48969	6.76	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.07	88	10330	5.29	ng	# 100
3) n-Nitrosodimethylamine	3.38	42	15049	8.23	ng	87
6) Naphthalene	10.40	128	87273	6.20	ng	98
7) 2-Methylnaphthalene	12.03	142	55081	6.07	ng	96
10) Acenaphthylene	13.93	152	92019	7.18	ng	99
11) Acenaphthene	14.29	154	56632	6.31	ng	95
12) Fluorene	15.29	166	66922	6.48	ng	99
14) Hexachlorobenzene	16.29	284	21934	7.11	ng	# 100
15) Pentachlorophenol	16.64	266	24805	22.07	ng	91
16) Phenanthrene	17.01	178	99326	6.70	ng	98
17) Anthracene	17.11	178	101685	7.46	ng	99
18) Fluoranthene	19.04	202	112845	7.30	ng	100
20) Pyrene	19.40	202	120912	6.68	ng	99
22) Benzo(a)anthracene	21.16	228	108966	6.88	ng	# 91
23) Chrysene	21.16	228	108966	6.54	ng	93
24) Indeno(1,2,3-cd)pyrene	25.51	276	118622	6.97	ng	99
26) Benzo(b)fluoranthene	22.70	252	114029	6.78	ng	98
27) Benzo(k)fluoranthene	22.74	252	96644	5.99	ng	98
28) Benzo(a)pyrene	23.24	252	102751	7.15	ng	96
29) Dibenzo(a,h)anthracene	25.53	278	95333	6.70	ng	96
30) Benzo(g,h,i)perylene	26.17	276	100435	6.52	ng	97

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 630

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

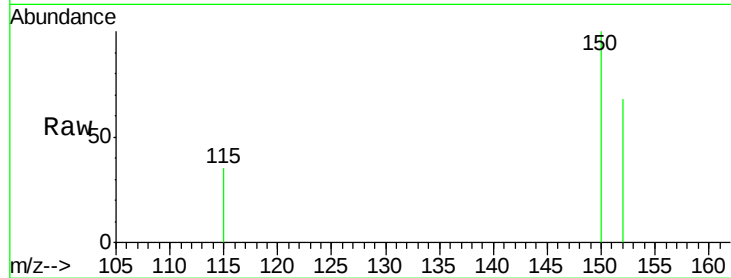
Tgt Ion:152 Resp: 17304

Ion Ratio Lower Upper

152 100

150 146.4 123.3 184.9

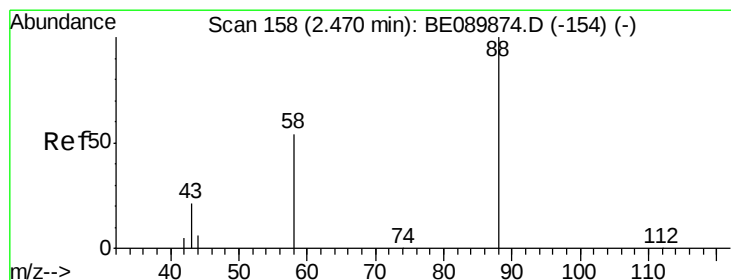
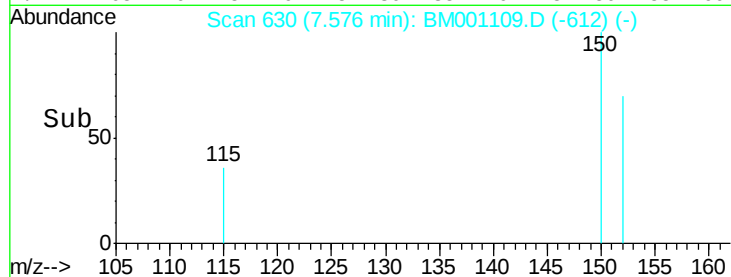
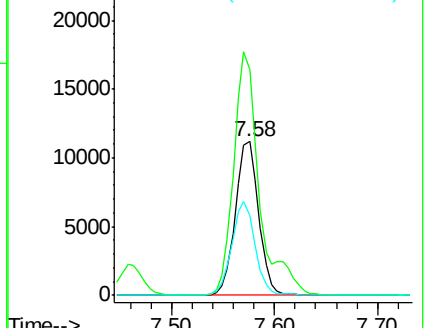
115 51.8 45.0 67.6



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



#2

1,4-Dioxane

Concen: 5.29 ng

RT: 3.07 min Scan# 38

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

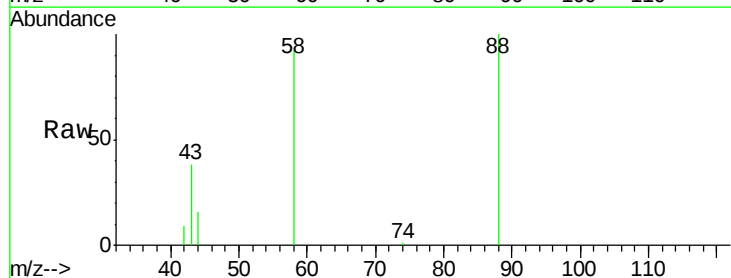
Tgt Ion: 88 Resp: 10330

Ion Ratio Lower Upper

88 100

58 88.1 0.0 0.0#

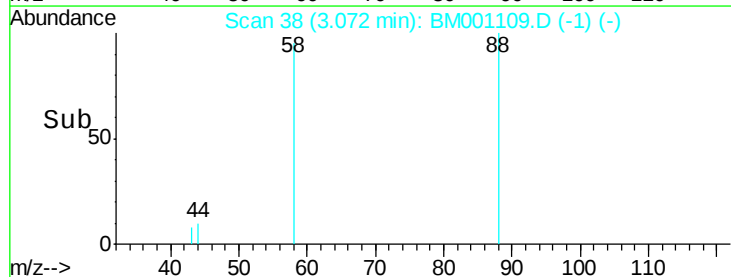
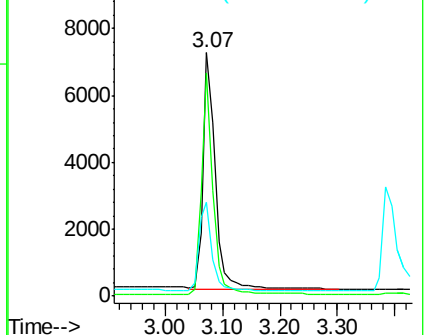
43 41.0 0.0 0.0#

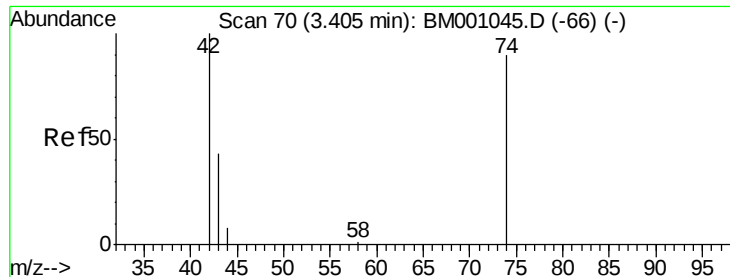


Abundance Ion 88.00 (87.70 to 88.70): BM0

Ion 58.00 (57.70 to 58.70): BM0

Ion 43.00 (42.70 to 43.70): BM0





#3

n-Nitrosodimethylamine

Concen: 8.23 ng

RT: 3.38 min Scan# 68

Delta R.T. -0.02 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

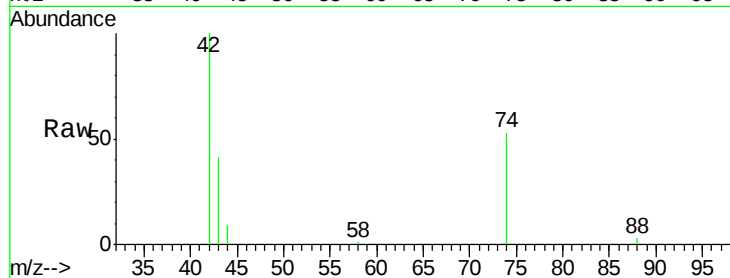
Tgt Ion: 42 Resp: 15049

Ion Ratio Lower Upper

42 100

74 100.0 92.1 138.1

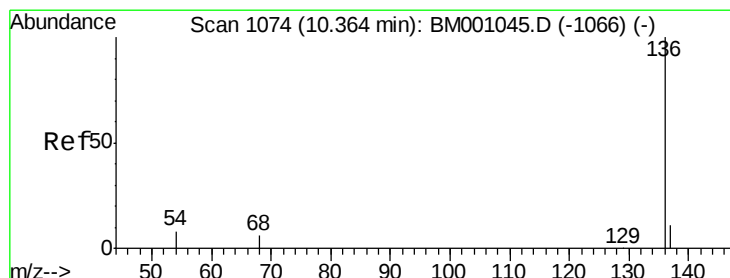
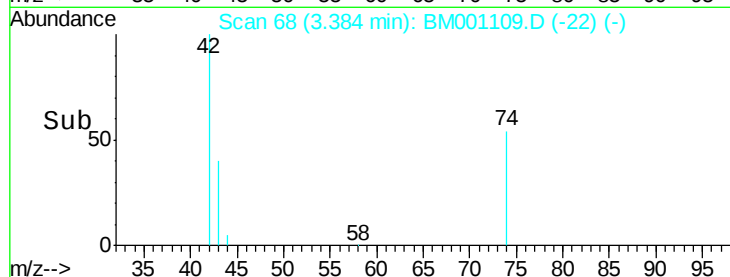
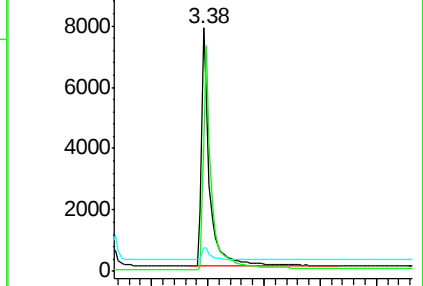
44 5.9 5.8 8.6



Abundance Ion 42.00 (41.70 to 42.70): BM001109.D (-22) (-)

Ion 74.00 (73.70 to 74.70): BM001109.D (-22) (-)

Ion 44.00 (43.70 to 44.70): BM001109.D (-22) (-)



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.35 min Scan# 1073

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

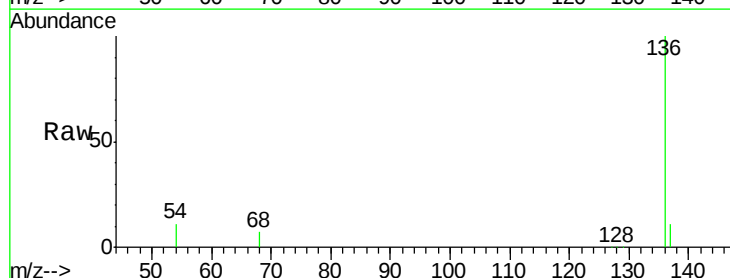
Tgt Ion: 136 Resp: 58993

Ion Ratio Lower Upper

136 100

137 10.6 8.6 13.0

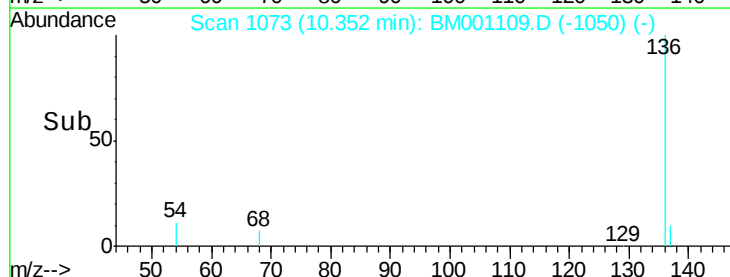
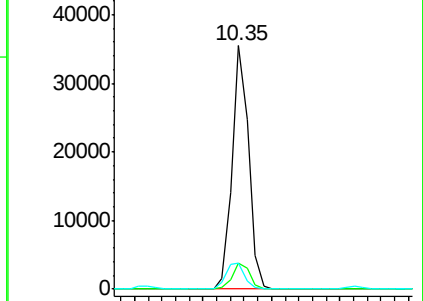
54 10.7 6.5 9.7#

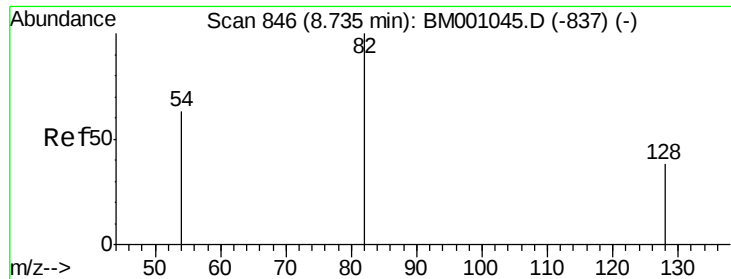


Abundance Ion 136.00 (135.70 to 136.70): BM001109.D (-1050) (-)

Ion 137.00 (136.70 to 137.70): BM001109.D (-1050) (-)

Ion 54.00 (53.70 to 54.70): BM001109.D (-1050) (-)





#5

Nitrobenzene-d5

Concen: 9.09 ng

RT: 8.73 min Scan# 845

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

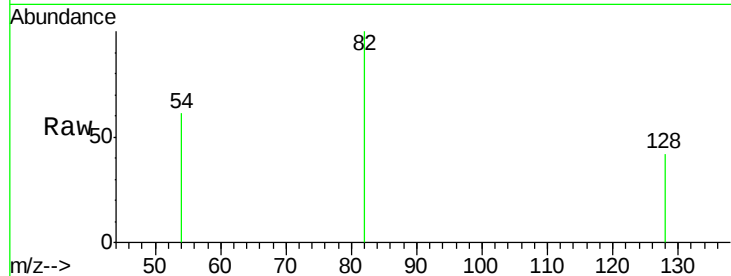
Tgt Ion: 82 Resp: 28017

Ion Ratio Lower Upper

82 100

128 41.9 31.9 47.9

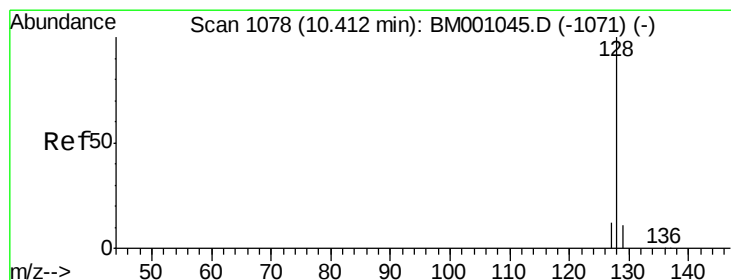
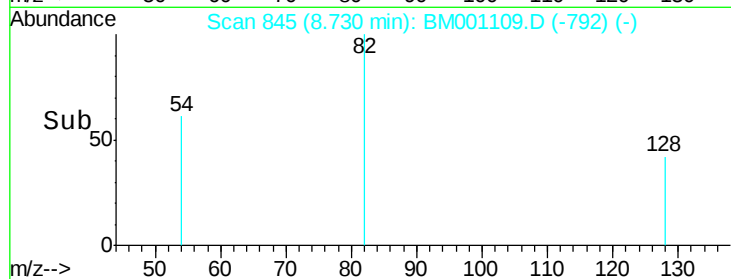
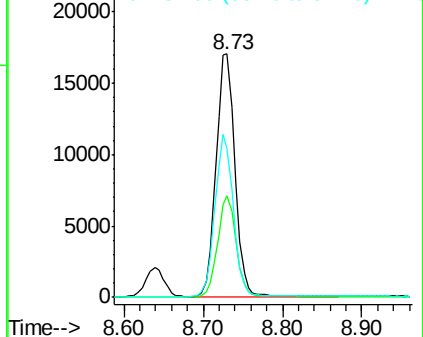
54 61.1 51.3 76.9



Abundance Ion 82.00 (81.70 to 82.70): BM001109.D (-792) (-)

Ion 128.00 (127.70 to 128.70): BM001109.D (-792) (-)

Ion 54.00 (53.70 to 54.70): BM001109.D (-792) (-)



#6

Naphthalene

Concen: 6.20 ng

RT: 10.40 min Scan# 1077

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

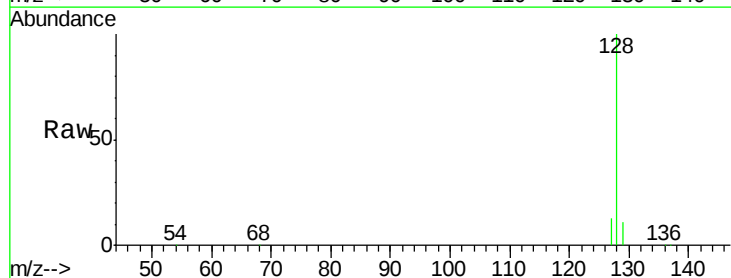
Tgt Ion: 128 Resp: 87273

Ion Ratio Lower Upper

128 100

129 10.7 9.3 13.9

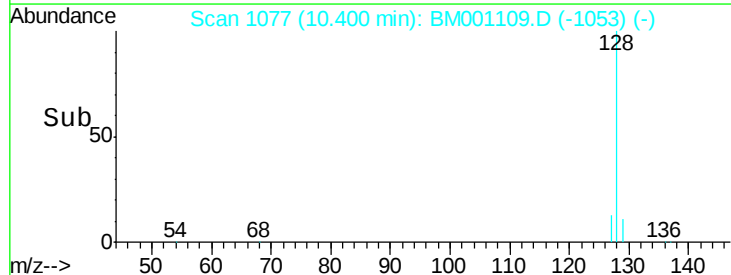
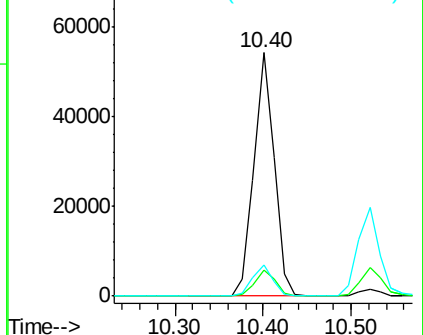
127 12.8 10.0 15.0



Abundance Ion 128.00 (127.70 to 128.70): BM001109.D (-1053) (-)

Ion 129.00 (128.70 to 129.70): BM001109.D (-1053) (-)

Ion 127.00 (126.70 to 127.70): BM001109.D (-1053) (-)





#7

2-Methylnaphthalene

Concen: 6.07 ng

RT: 12.03 min Scan# 1223

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

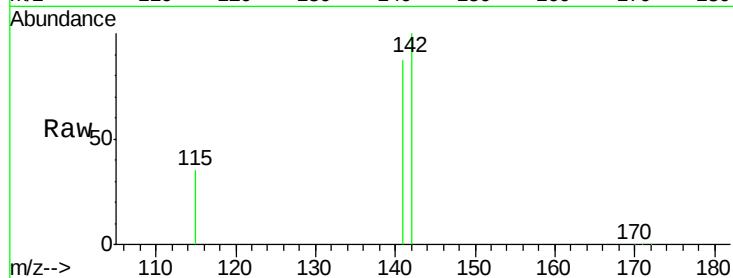
Tgt Ion:142 Resp: 55081

Ion Ratio Lower Upper

142 100

141 86.7 66.7 100.1

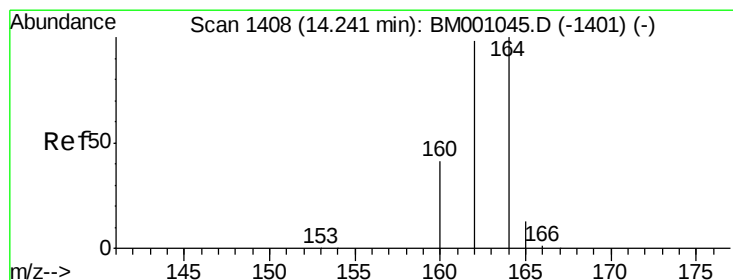
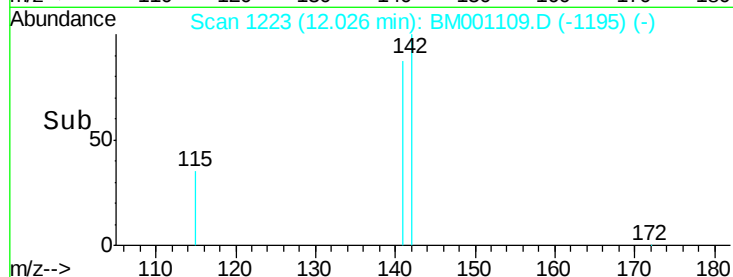
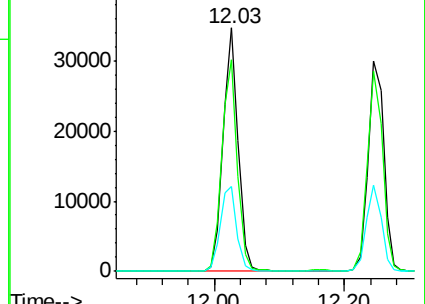
115 34.8 25.5 38.3



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: 14.22 min Scan# 1407

Delta R.T. -0.02 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

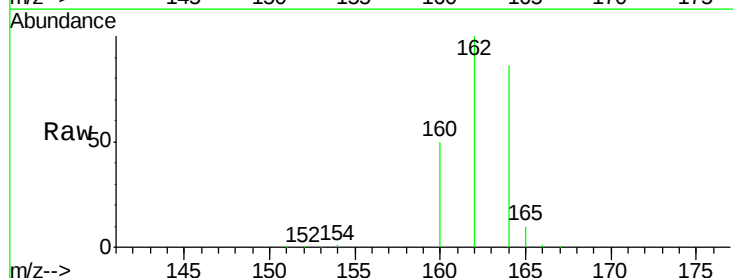
Tgt Ion:164 Resp: 29000

Ion Ratio Lower Upper

164 100

162 116.2 78.5 117.7

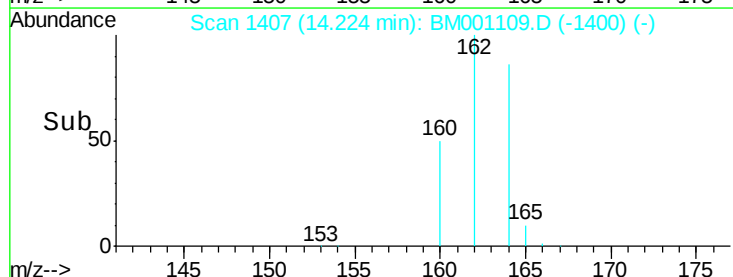
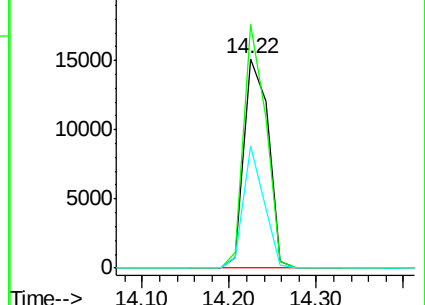
160 58.1 32.9 49.3

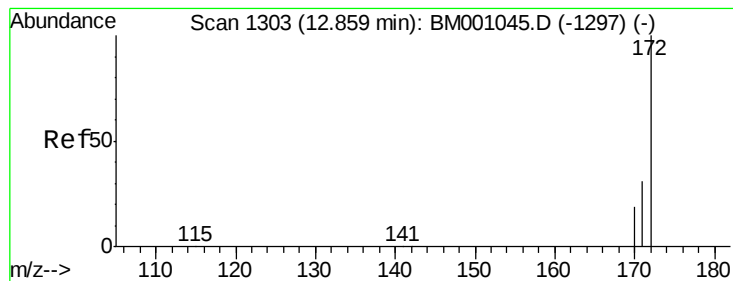


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 6.90 ng

RT: 12.85 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

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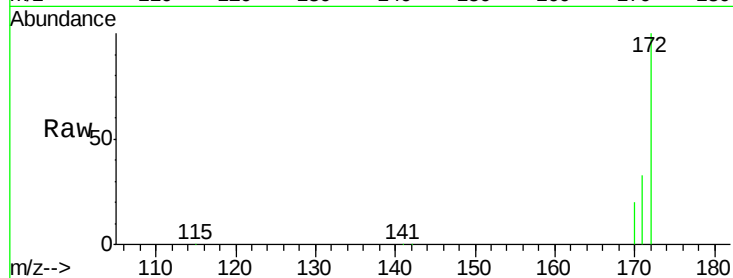
Tgt Ion:172 Resp: 66103

Ion Ratio Lower Upper

172 100

171 32.5 25.6 38.4

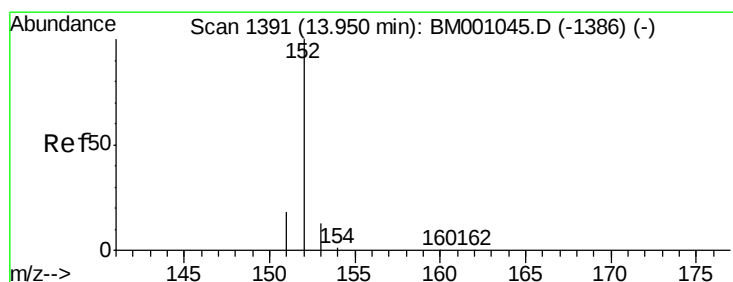
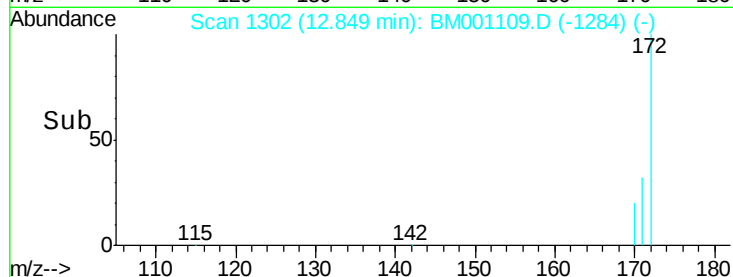
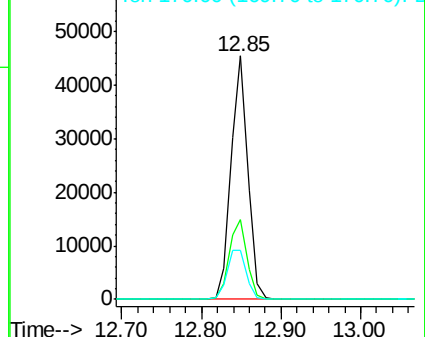
170 20.3 15.8 23.6



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: 7.18 ng

RT: 13.93 min Scan# 1390

Delta R.T. -0.02 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

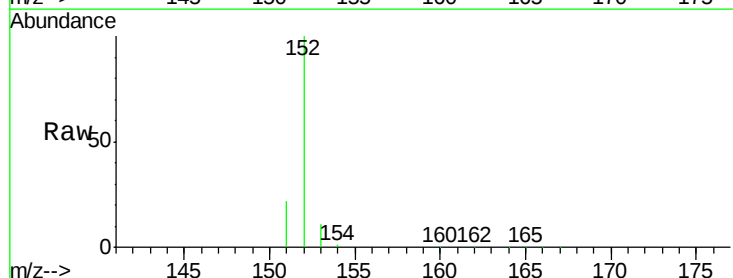
Tgt Ion:152 Resp: 92019

Ion Ratio Lower Upper

152 100

151 19.0 14.7 22.1

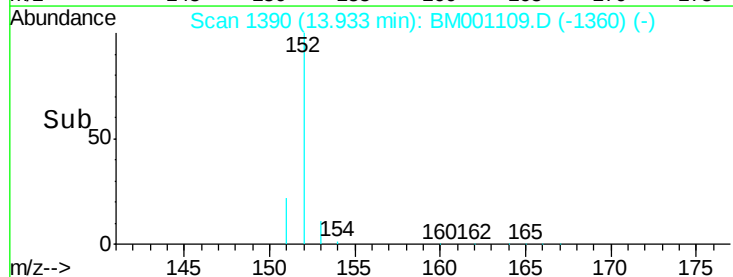
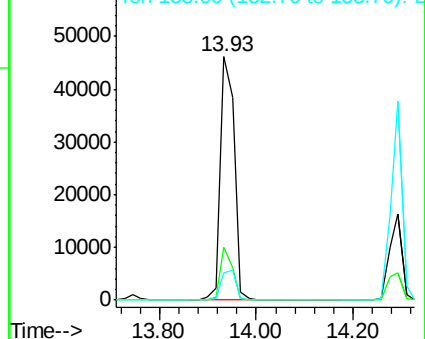
153 12.9 10.2 15.2

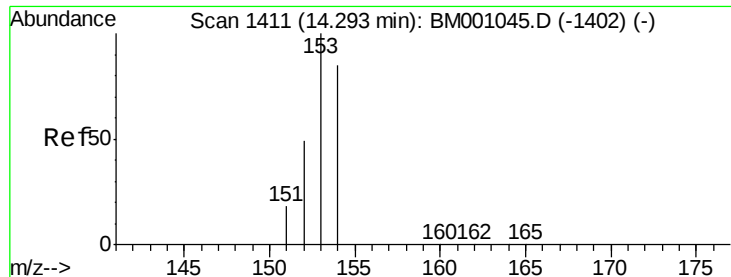


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 6.31 ng

RT: 14.29 min Scan# 1411

Delta R.T. 0.00 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

Instrument :

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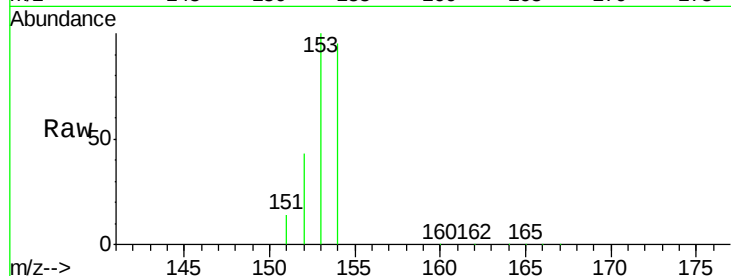
Tgt Ion:154 Resp: 56632

Ion Ratio Lower Upper

154 100

153 103.9 88.1 132.1

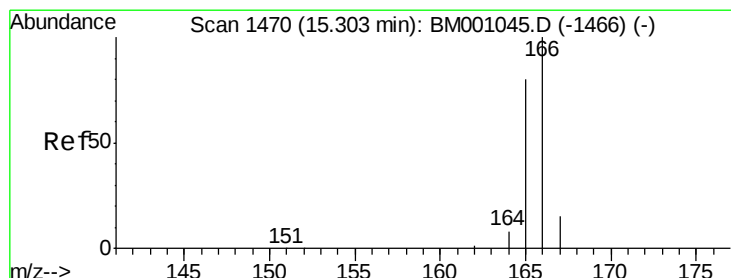
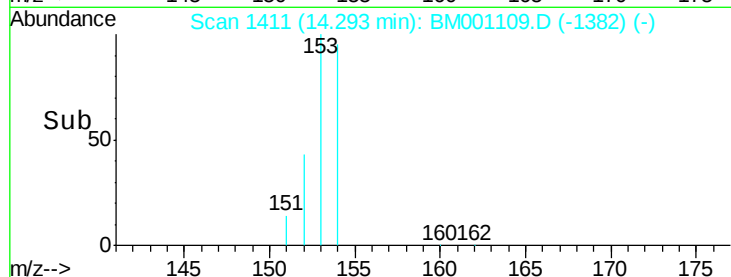
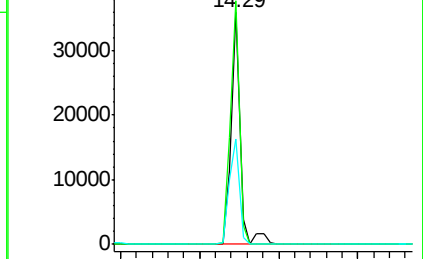
152 49.6 42.3 63.5



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: 6.48 ng

RT: 15.29 min Scan# 1469

Delta R.T. -0.02 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

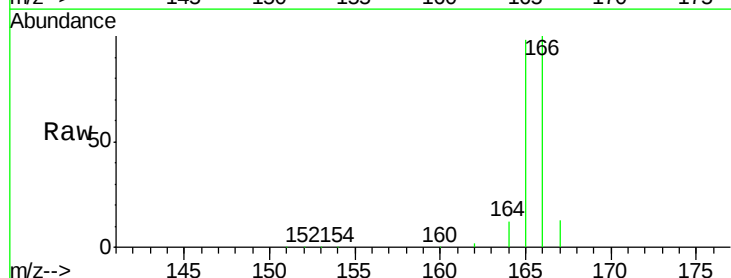
Tgt Ion:166 Resp: 66922

Ion Ratio Lower Upper

166 100

165 97.6 77.6 116.4

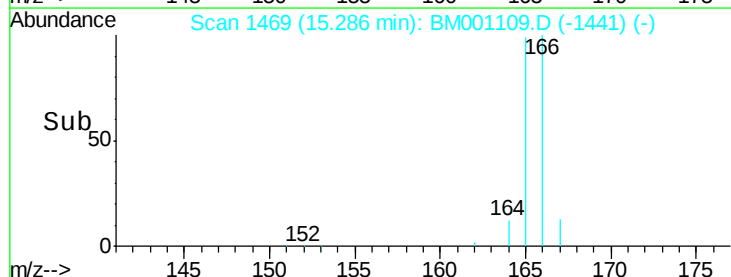
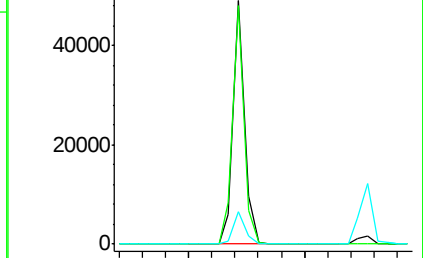
167 13.4 10.6 16.0

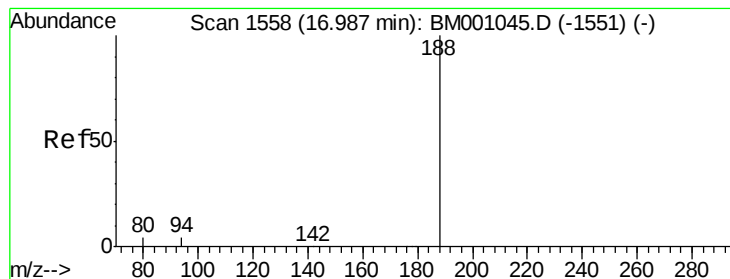


Abundance Ion 166.00 (165.70 to 166.70): E

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: 16.97 min Scan# 1557

Delta R.T. -0.02 min

Lab File: BM001109.D

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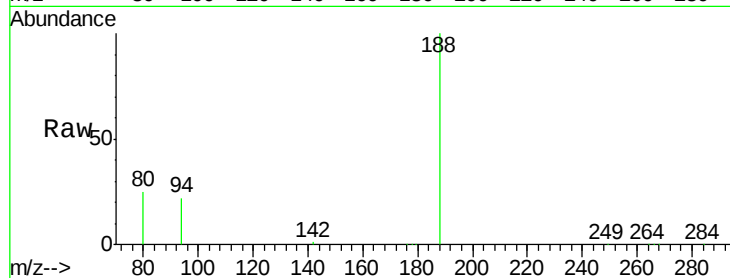
Tgt Ion:188 Resp: 55830

Ion Ratio Lower Upper

188 100

94 21.8 3.6 5.4#

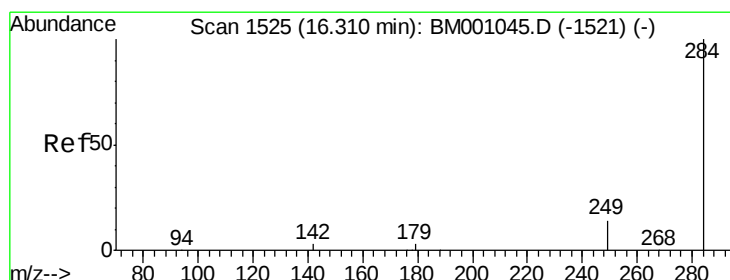
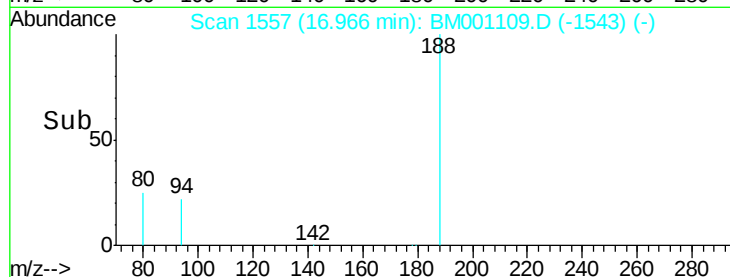
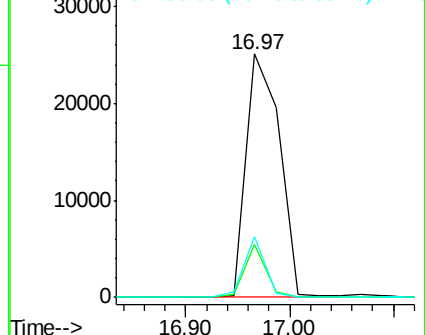
80 25.1 3.0 4.6#



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: 7.11 ng

RT: 16.29 min Scan# 1524

Delta R.T. -0.02 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

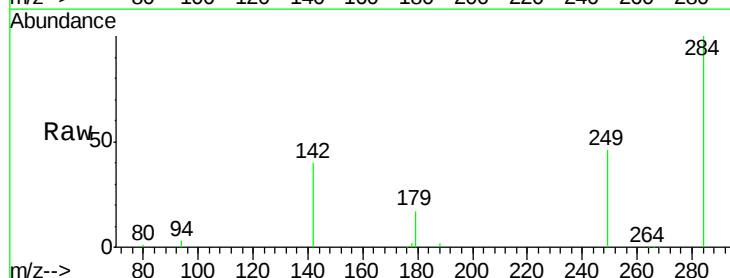
Tgt Ion:284 Resp: 21934

Ion Ratio Lower Upper

284 100

142 40.7 0.0 0.0#

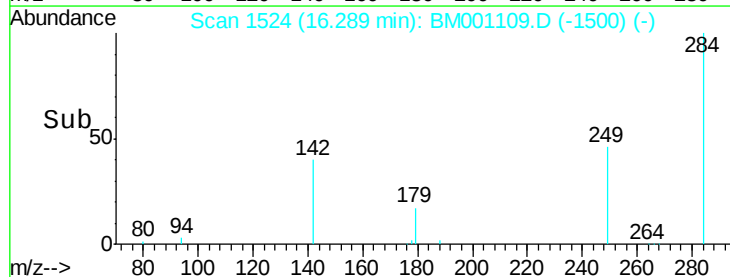
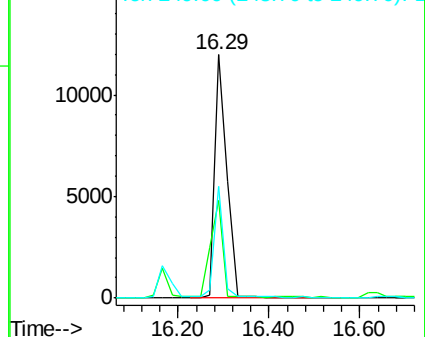
249 34.9 0.0 0.0#



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

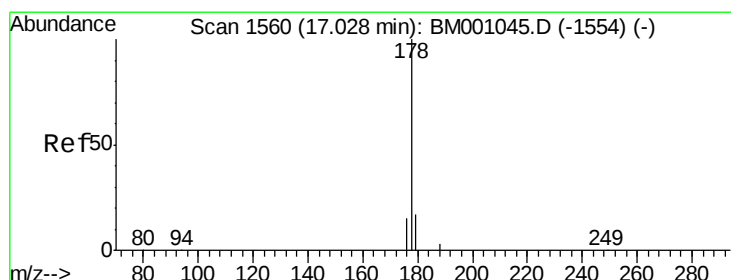
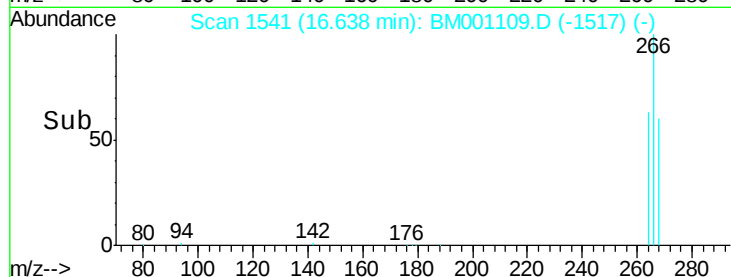
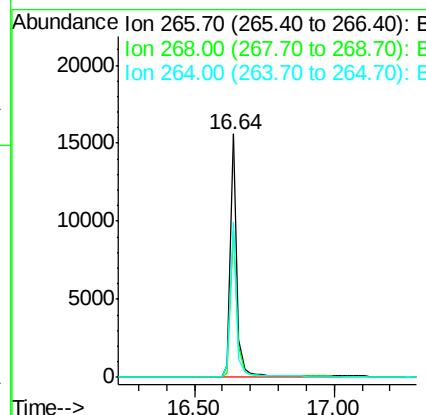
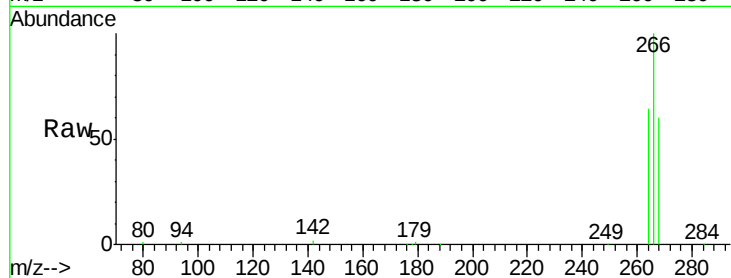




#15
 Pentachlorophenol
 Concen: 22.07 ng
 RT: 16.64 min Scan# 1541
 Delta R.T. 0.00 min
 Lab File: BM001109.D
 Acq: 22 Apr 2015 16:22

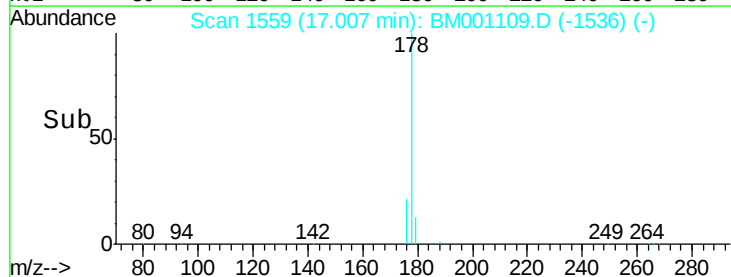
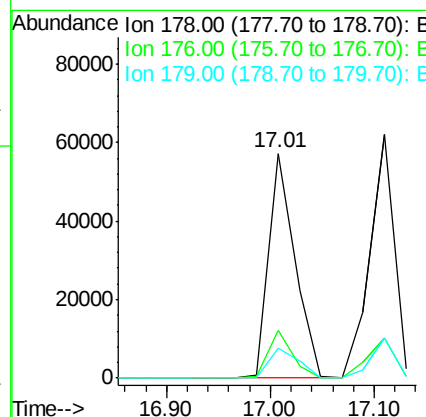
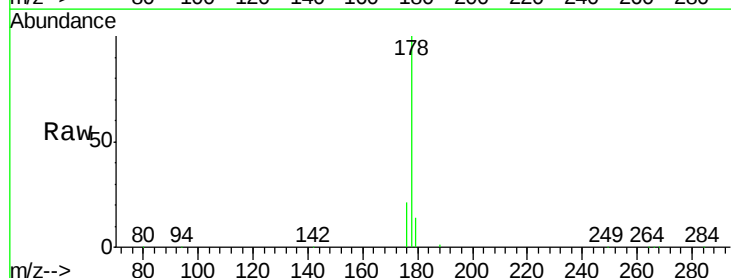
Instrument :
 BNA_M
 ClientSampleId :
 PB82802BSD

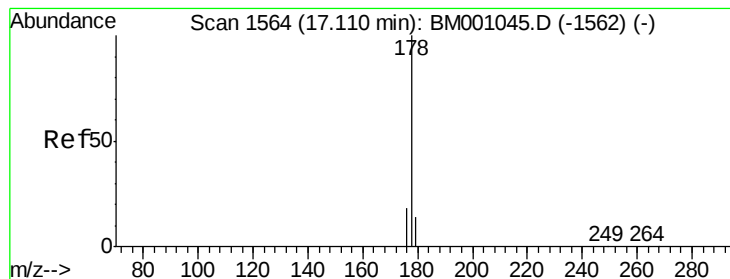
Tgt Ion: 266 Resp: 24805
 Ion Ratio Lower Upper
 266 100
 268 60.1 46.3 69.5
 264 63.6 59.8 89.6



#16
 Phenanthrene
 Concen: 6.70 ng
 RT: 17.01 min Scan# 1559
 Delta R.T. -0.02 min
 Lab File: BM001109.D
 Acq: 22 Apr 2015 16:22

Tgt Ion: 178 Resp: 99326
 Ion Ratio Lower Upper
 178 100
 176 19.4 14.6 22.0
 179 14.9 12.6 19.0





#17

Anthracene

Concen: 7.46 ng

RT: 17.11 min Scan# 1564

Delta R.T. 0.00 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

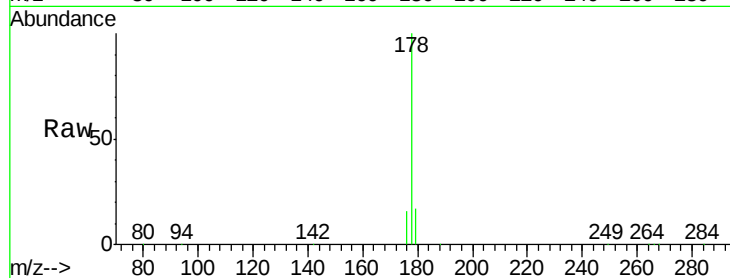
Tgt Ion:178 Resp: 101685

Ion Ratio Lower Upper

178 100

176 17.9 14.3 21.5

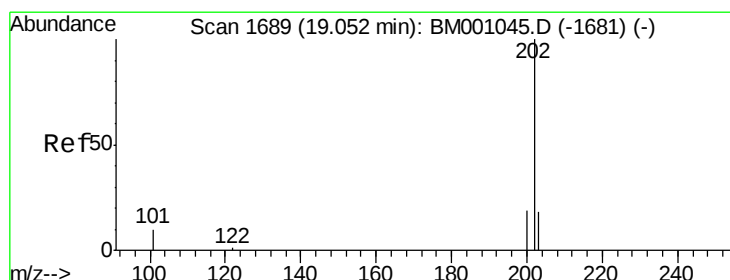
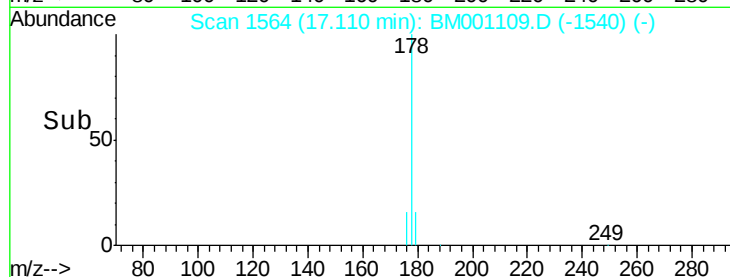
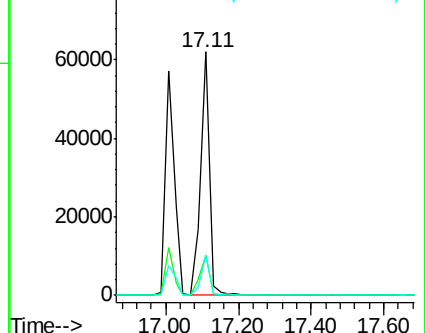
179 15.8 11.8 17.8



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: 7.30 ng

RT: 19.04 min Scan# 1688

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

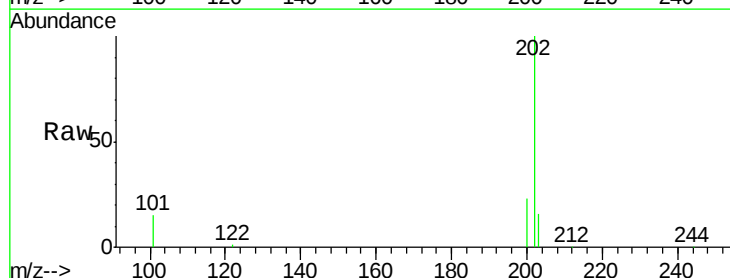
Tgt Ion:202 Resp: 112845

Ion Ratio Lower Upper

202 100

101 12.7 10.1 15.1

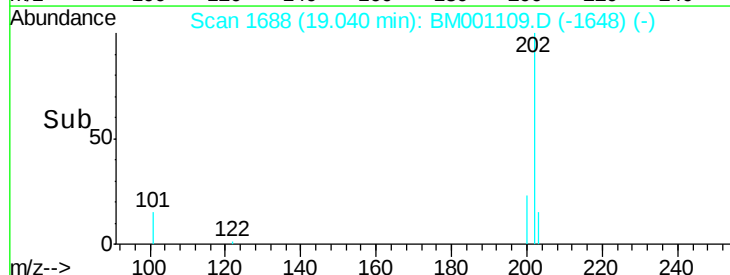
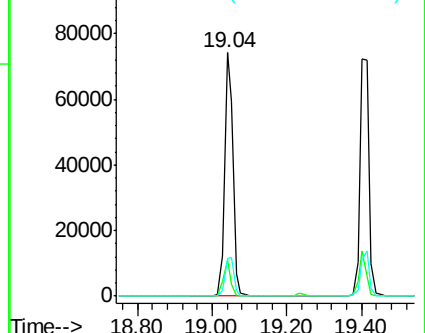
203 17.4 13.8 20.8

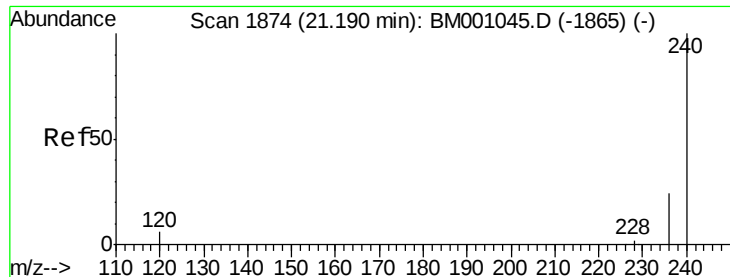


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 21.18 min Scan# 1873

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

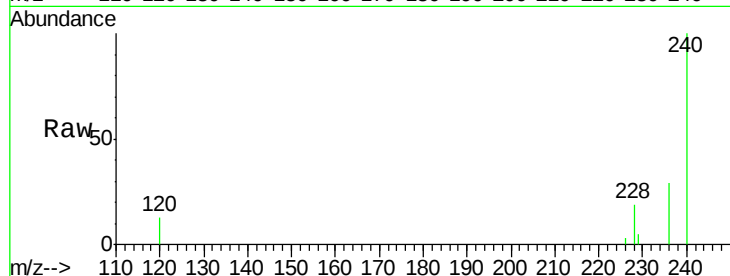
Tgt Ion:240 Resp: 54628

Ion Ratio Lower Upper

240 100

120 12.8 4.6 6.8#

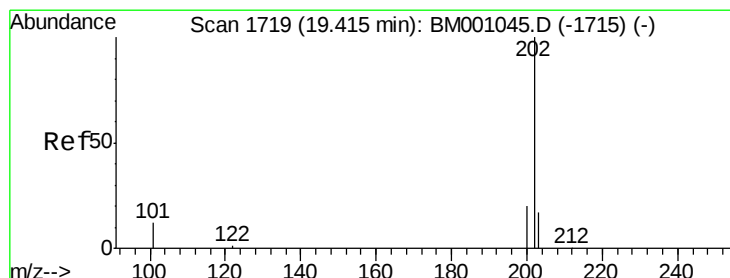
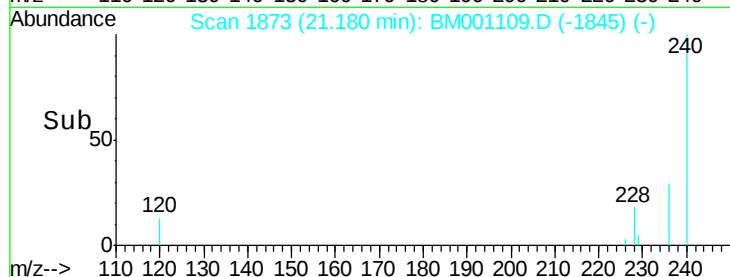
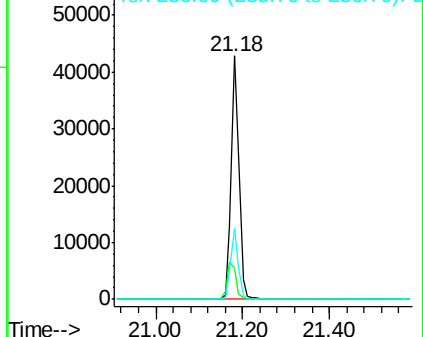
236 29.2 19.1 28.7#



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 6.68 ng

RT: 19.40 min Scan# 1718

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

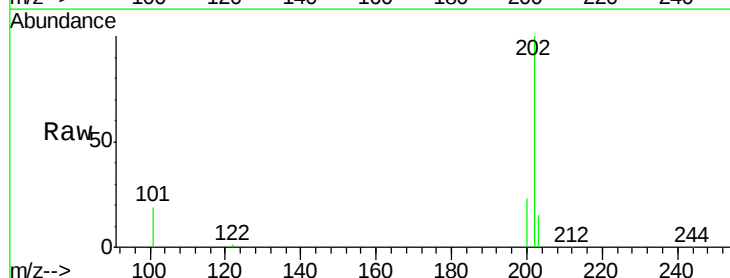
Tgt Ion:202 Resp: 120912

Ion Ratio Lower Upper

202 100

200 20.5 16.3 24.5

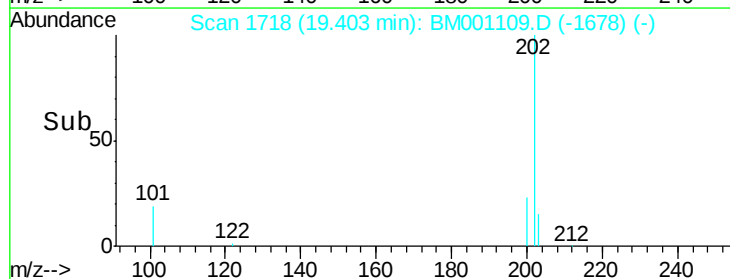
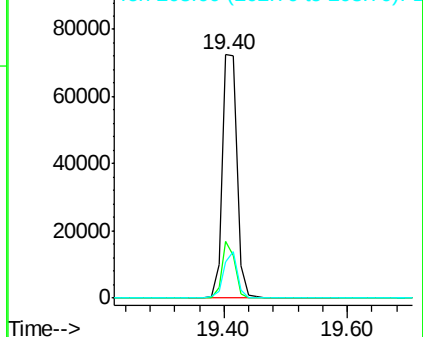
203 17.8 13.8 20.6

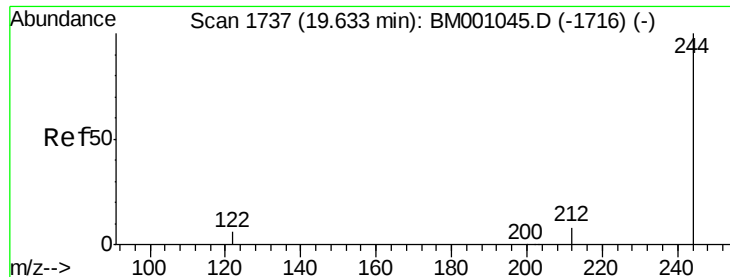


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 6.76 ng

RT: 19.62 min Scan# 1736

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

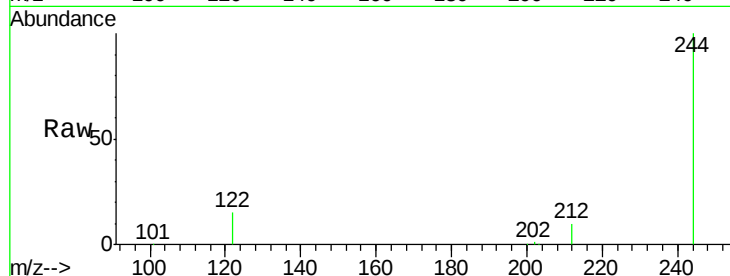
Tgt Ion:244 Resp: 48969

Ion Ratio Lower Upper

244 100

212 10.0 7.1 10.7

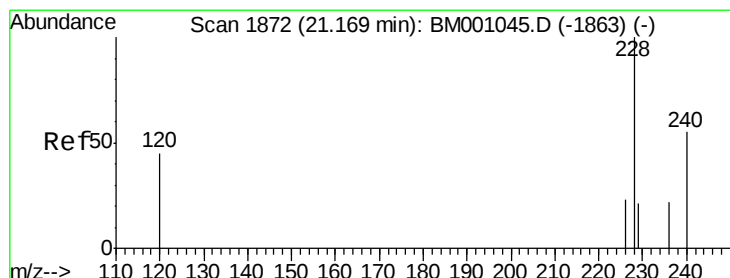
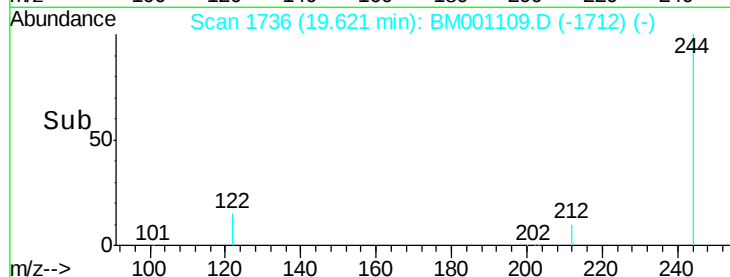
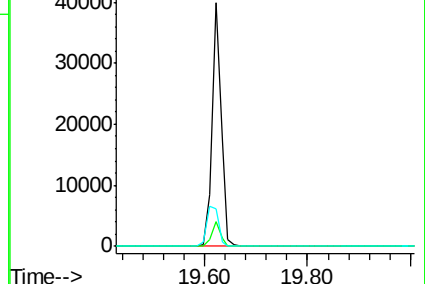
122 15.2 5.9 8.9#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 6.88 ng

RT: 21.16 min Scan# 1871

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

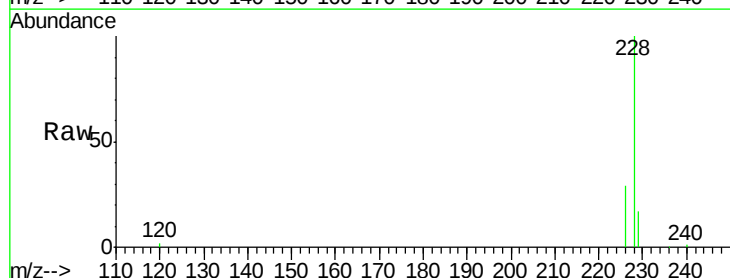
Tgt Ion:228 Resp: 108966

Ion Ratio Lower Upper

228 100

226 28.8 19.0 28.6#

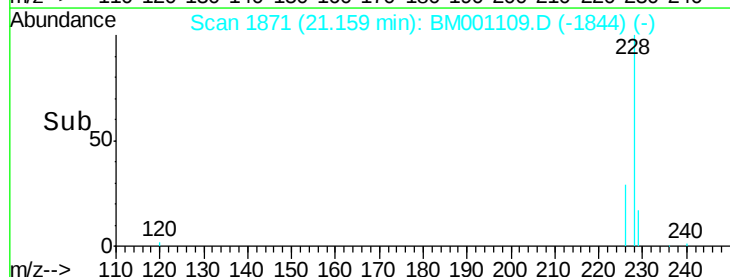
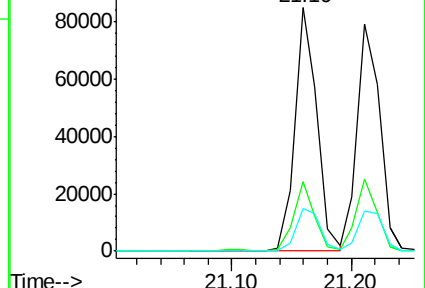
229 17.4 16.8 25.2

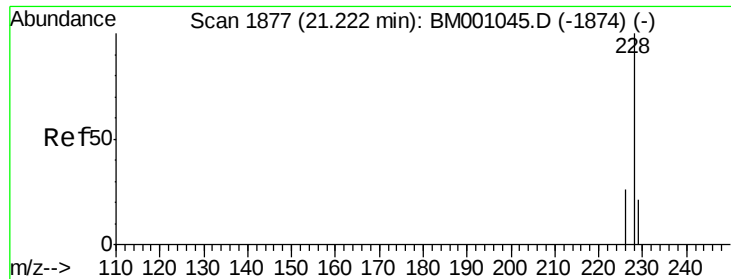


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 6.54 ng

RT: 21.16 min Scan# 1871

Delta R.T. -0.06 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

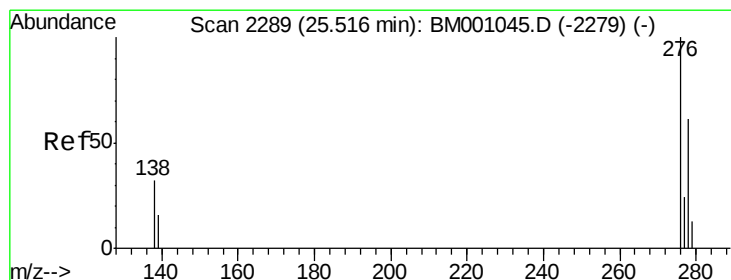
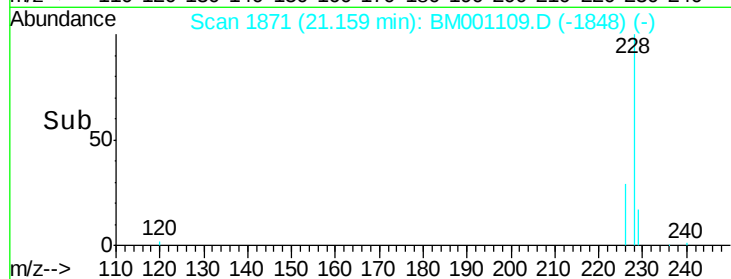
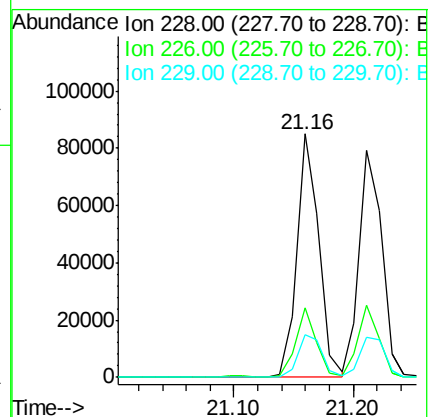
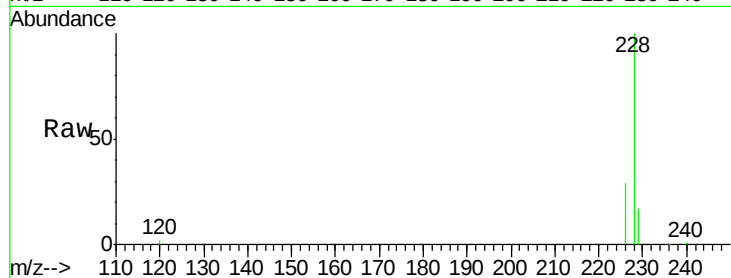
Tgt Ion:228 Resp: 108966

Ion Ratio Lower Upper

228 100

226 28.8 20.6 31.0

229 17.4 17.2 25.8



#24

Indeno(1,2,3-cd)pyrene

Concen: 6.97 ng

RT: 25.51 min Scan# 2288

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

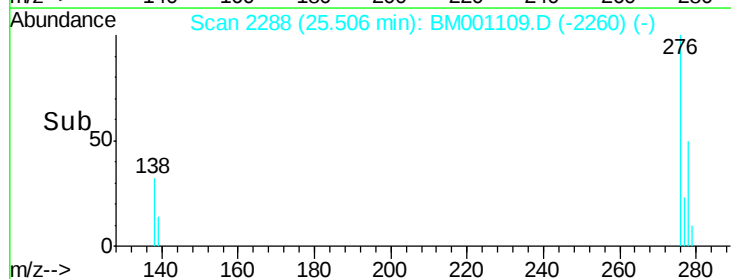
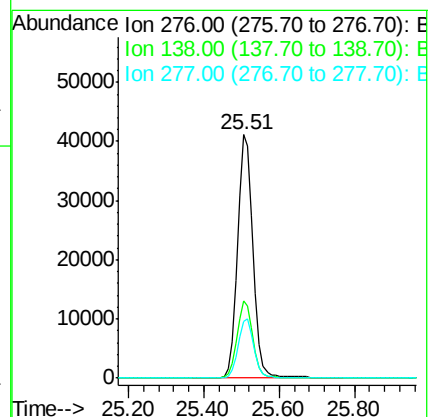
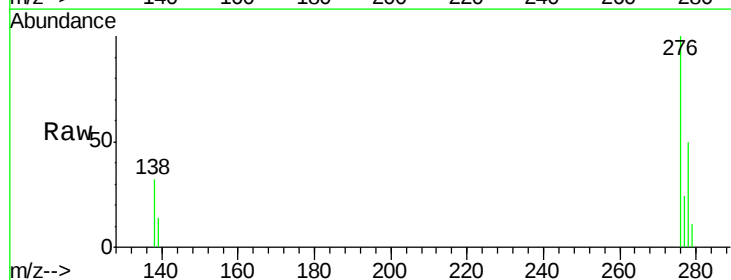
Tgt Ion:276 Resp: 118622

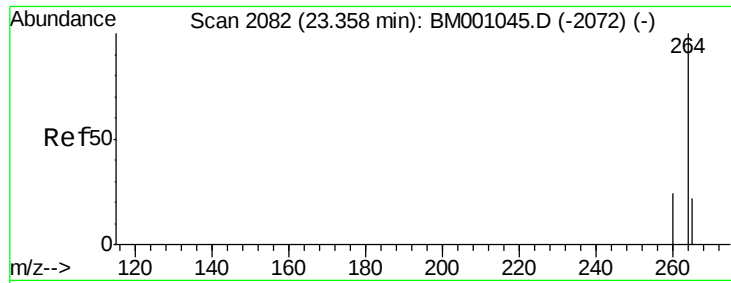
Ion Ratio Lower Upper

276 100

138 31.8 26.3 39.5

277 24.5 19.5 29.3

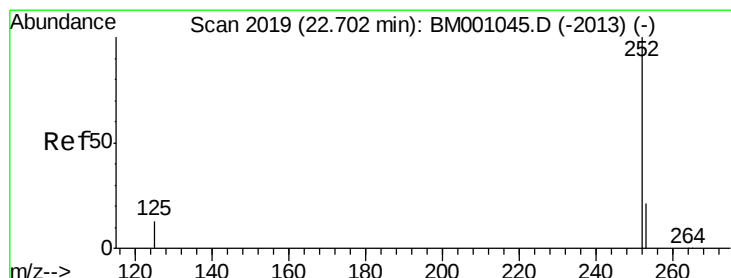
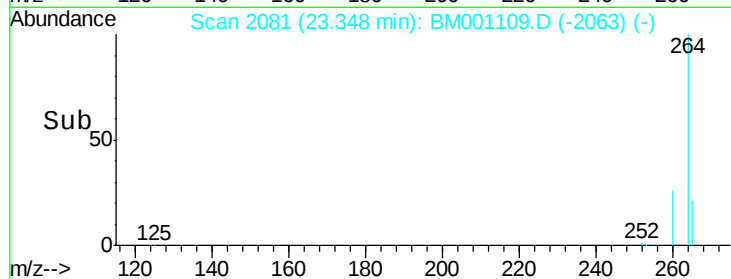
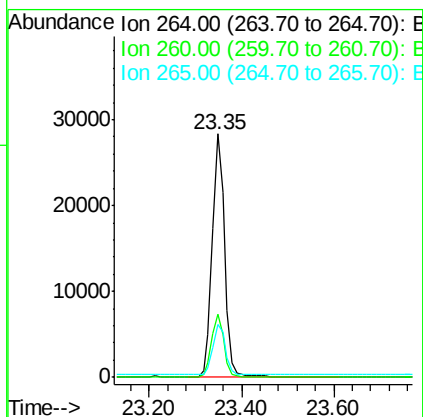
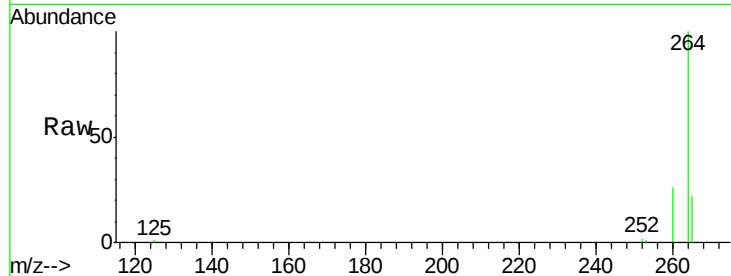




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.35 min Scan# 2081
 Delta R.T. -0.01 min
 Lab File: BM001109.D
 Acq: 22 Apr 2015 16:22

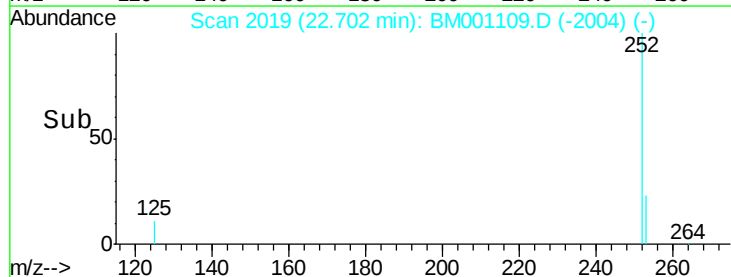
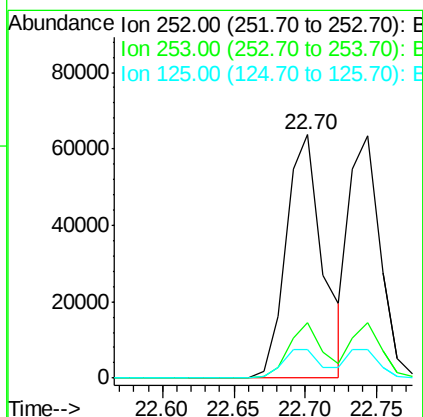
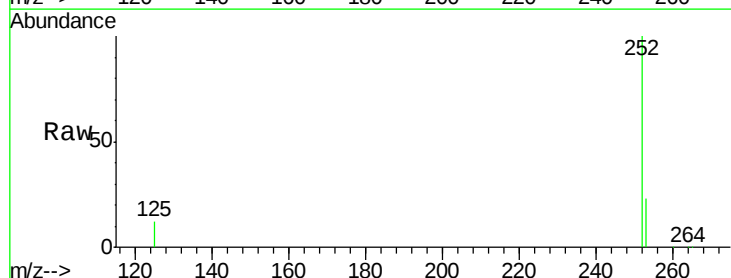
Instrument :
 BNA_M
 ClientSampleId :
 PB82802BSD

Tgt Ion: 264 Resp: 52342
 Ion Ratio Lower Upper
 264 100
 260 25.8 19.0 28.6
 265 21.6 17.9 26.9



#26
 Benzo(b)fluoranthene
 Concen: 6.78 ng
 RT: 22.70 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: BM001109.D
 Acq: 22 Apr 2015 16:22

Tgt Ion: 252 Resp: 114029
 Ion Ratio Lower Upper
 252 100
 253 22.8 18.2 27.2
 125 11.5 10.9 16.3





#27

Benzo(k)fluoranthene

Concen: 5.99 ng

RT: 22.74 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

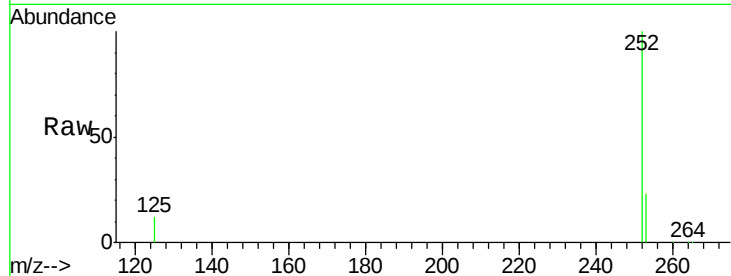
Tgt Ion:252 Resp: 96644

Ion Ratio Lower Upper

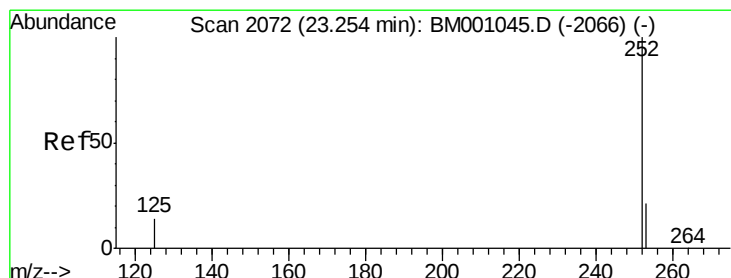
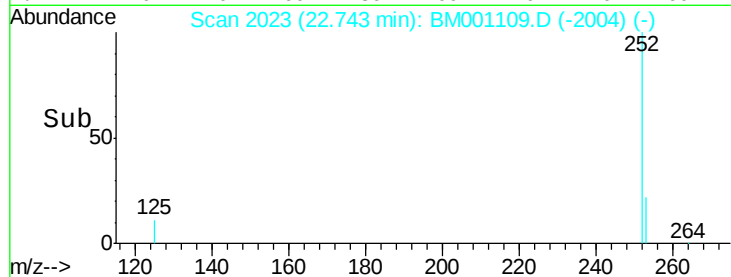
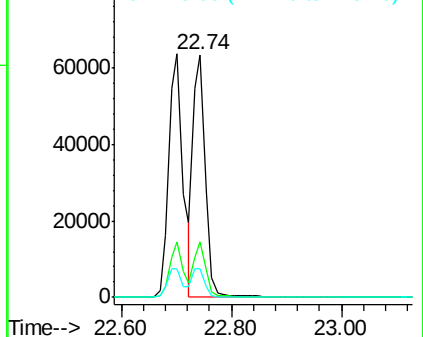
252 100

253 22.7 18.3 27.5

125 11.6 10.6 15.8



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: 7.15 ng

RT: 23.24 min Scan# 2071

Delta R.T. -0.01 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

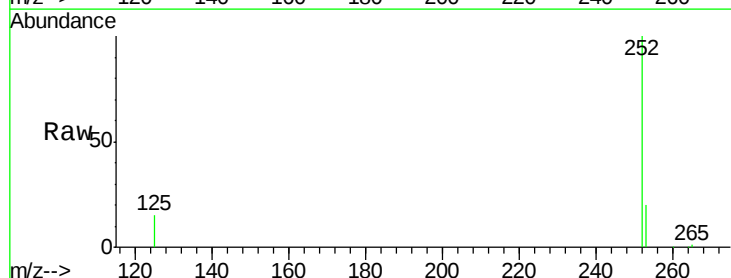
Tgt Ion:252 Resp: 102751

Ion Ratio Lower Upper

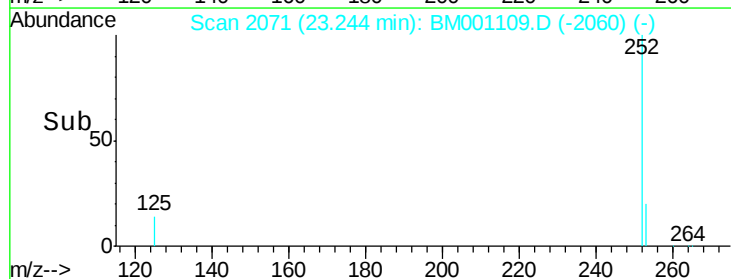
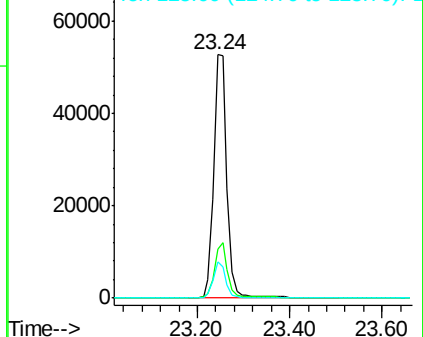
252 100

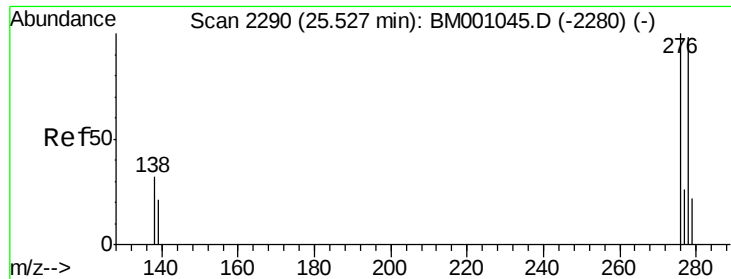
253 20.1 18.6 27.8

125 14.7 11.9 17.9



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: 6.70 ng

RT: 25.53 min Scan# 2290

Delta R.T. 0.00 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

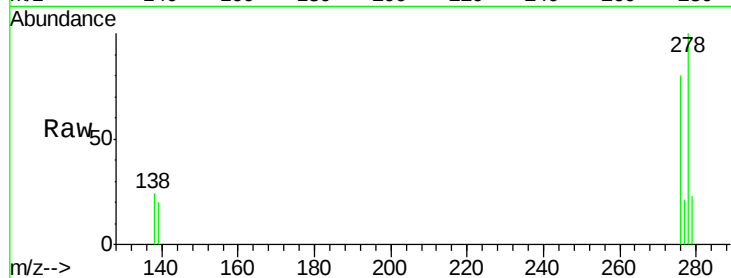
Tgt Ion:278 Resp: 95333

Ion Ratio Lower Upper

278 100

139 19.6 18.2 27.2

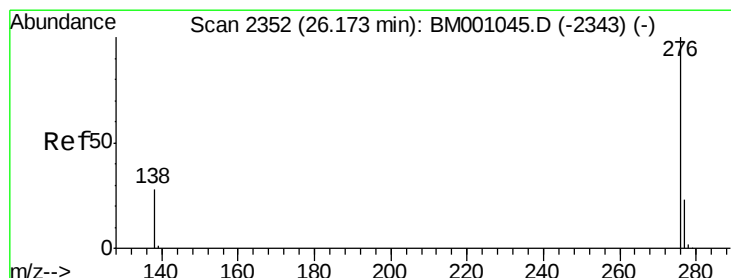
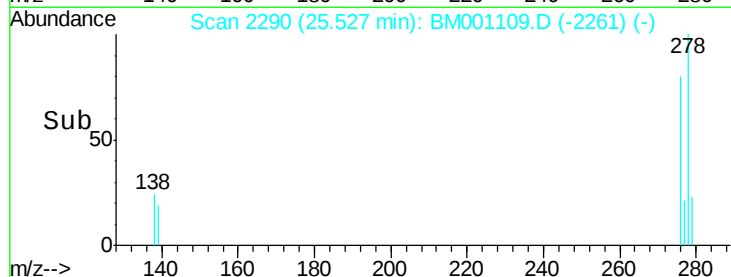
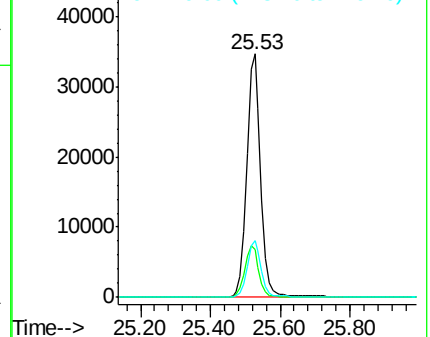
279 23.4 19.1 28.7



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: 6.52 ng

RT: 26.17 min Scan# 2352

Delta R.T. 0.00 min

Lab File: BM001109.D

Acq: 22 Apr 2015 16:22

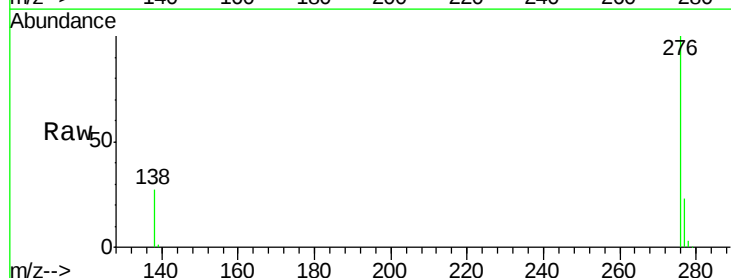
Tgt Ion:276 Resp: 100435

Ion Ratio Lower Upper

276 100

277 23.3 19.0 28.4

138 26.8 23.4 35.2



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

