

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM041815\
 Data File : BM001053.D
 Acq On : 18 Apr 2015 09:49
 Operator : TP/IZ
 Sample : PB82802BS
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PB82802BS

Quant Time: Apr 20 08:06:17 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 05:07:15 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	23046	5.00	ng	0.00
4) Naphthalene-d8	10.36	136	83944	5.00	ng	0.00
8) Acenaphthene-d10	14.24	164	45323	5.00	ng	0.00
13) Phenanthrene-d10	16.99	188	99045	5.00	ng	0.00
19) Chrysene-d12	21.19	240	91756	5.00	ng	0.00
25) Perylene-d12	23.36	264	82685	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.74	82	28956	6.33	ng	0.00
9) 2-Fluorobiphenyl	12.86	172	83658	5.57	ng	0.00
21) Terphenyl-d14	19.63	244	70383	7.26	ng	0.00

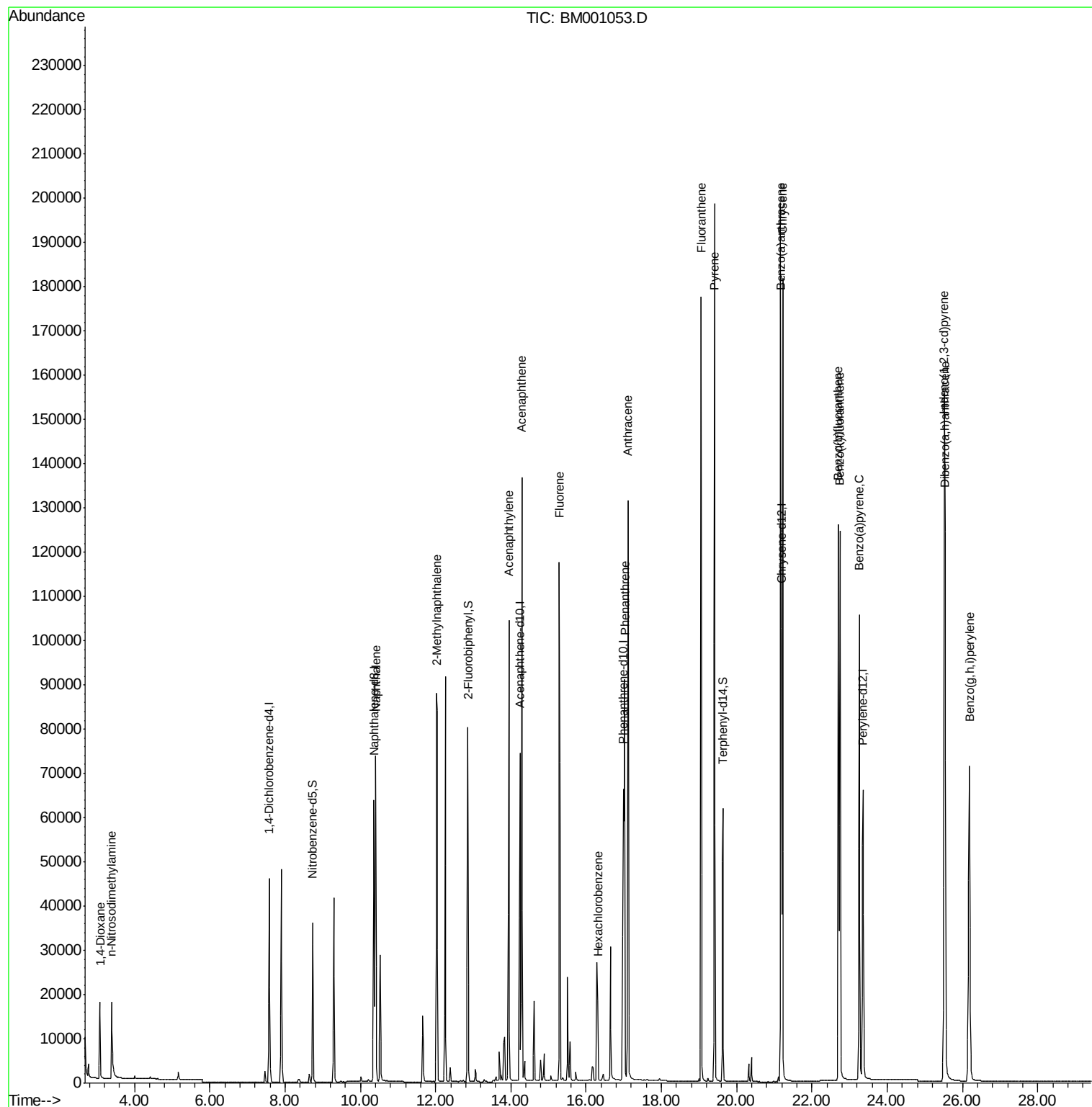
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.08	88	12032	4.75	ng	# 100
3) n-Nitrosodimethylamine	3.39	42	14266	5.70	ng	95
6) Naphthalene	10.41	128	104650	5.19	ng	99
7) 2-Methylnaphthalene	12.04	142	69183	5.22	ng	96
10) Acenaphthylene	13.95	152	121367	4.68	ng	99
11) Acenaphthene	14.29	154	71826	5.05	ng	99
12) Fluorene	15.29	166	89610	5.42	ng	99
14) Hexachlorobenzene	16.31	284	29469	5.97	ng	# 100
15) Pentachlorophenol	16.64	266	24894	Below Cal		95
16) Phenanthrene	17.03	178	136983	5.73	ng	99
17) Anthracene	17.11	178	145421	6.29	ng	99
18) Fluoranthene	19.05	202	162428	6.21	ng	100
20) Pyrene	19.42	202	175096	6.72	ng	99
22) Benzo(a)anthracene	21.17	228	159810	7.21	ng	99
23) Chrysene	21.22	228	156881	7.67	ng	98
24) Indeno(1,2,3-cd)pyrene	25.52	276	160958	6.40	ng	99
26) Benzo(b)fluoranthene	22.70	252	151059	6.49	ng	98
27) Benzo(k)fluoranthene	22.74	252	152363	7.29	ng	97
28) Benzo(a)pyrene	23.25	252	142497	7.70	ng	97
29) Dibenzo(a,h)anthracene	25.54	278	131919	6.85	ng	96
30) Benzo(g,h,i)perylene	26.18	276	137483	6.83	ng	98

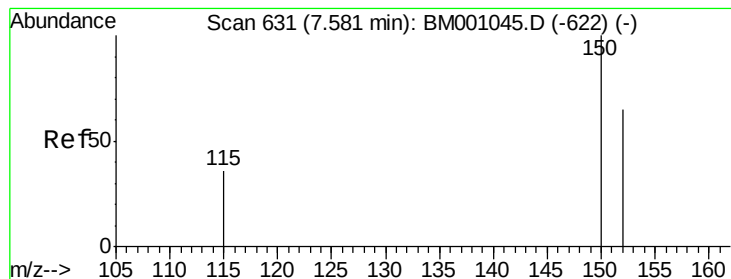
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 631

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

Instrument :

BNA_M

ClientSampleId :

PB82802BS

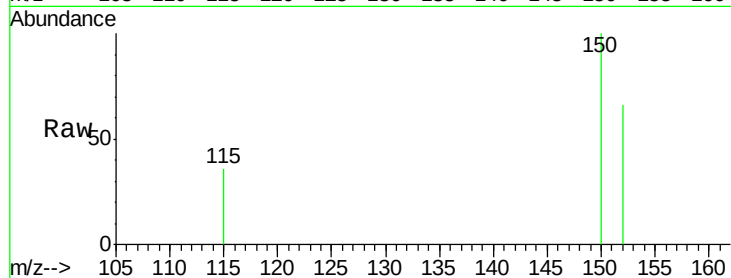
Tgt Ion:152 Resp: 23046

Ion Ratio Lower Upper

152 100

150 151.0 123.3 184.9

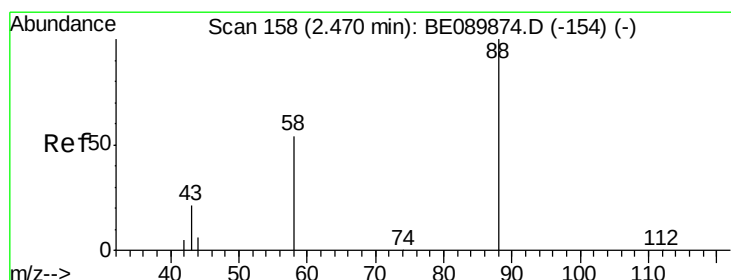
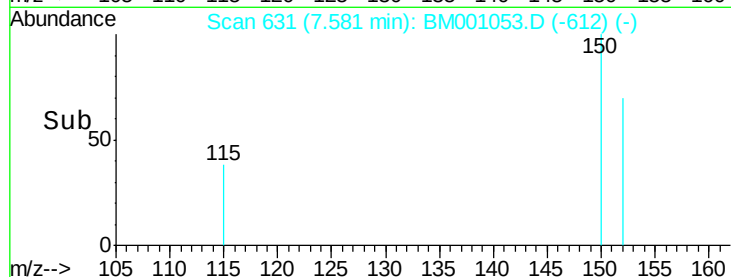
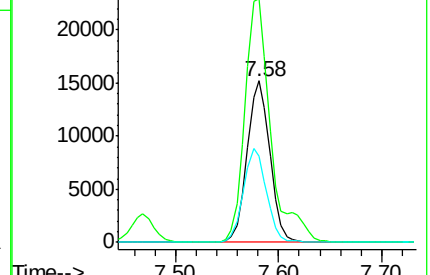
115 53.8 45.0 67.6



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: 4.75 ng

RT: 3.08 min Scan# 39

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

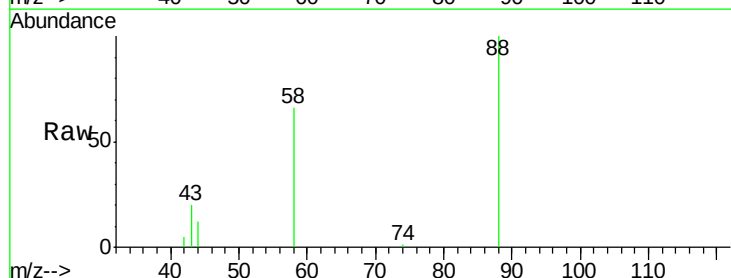
Tgt Ion: 88 Resp: 12032

Ion Ratio Lower Upper

88 100

58 82.1 0.0 0.0#

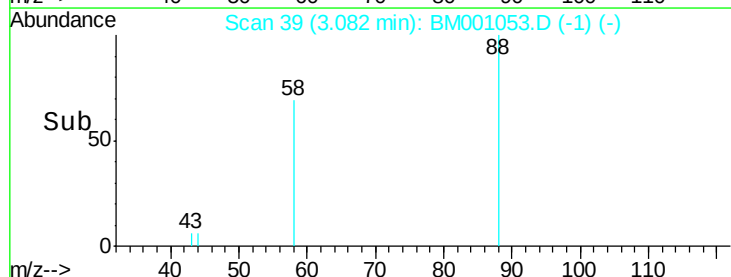
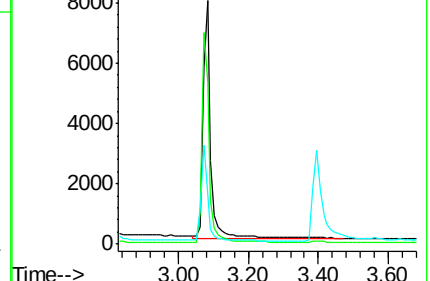
43 34.7 0.0 0.0#

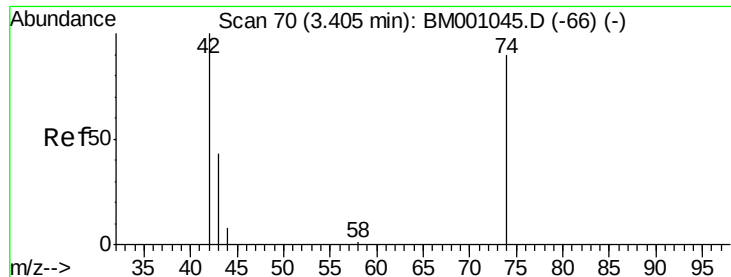


Abundance Ion 88.00 (87.70 to 88.70): BM0

Ion 58.00 (57.70 to 58.70): BM0

Ion 43.00 (42.70 to 43.70): BM0





#3

n-Nitrosodimethylamine

Concen: 5.70 ng

RT: 3.39 min Scan# 69

Delta R.T. -0.01 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

Instrument :

BNA_M

ClientSampleId :

PB82802BS

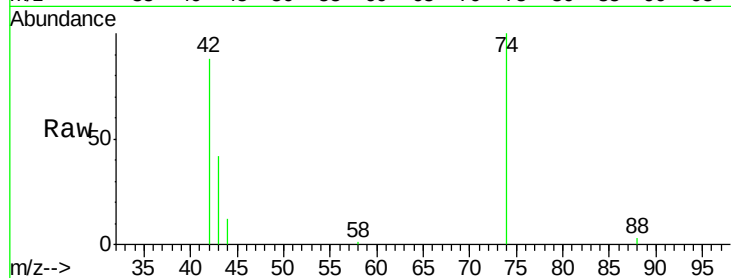
Tgt Ion: 42 Resp: 14266

Ion Ratio Lower Upper

42 100

74 109.1 92.1 138.1

44 5.9 5.8 8.6

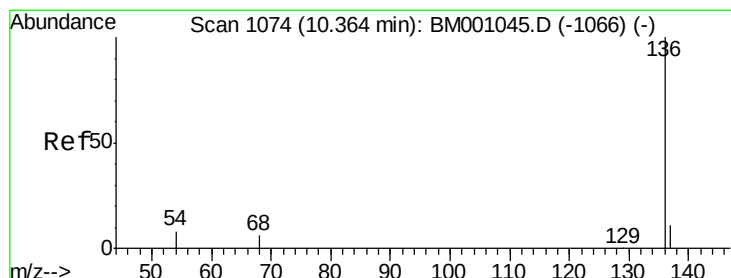
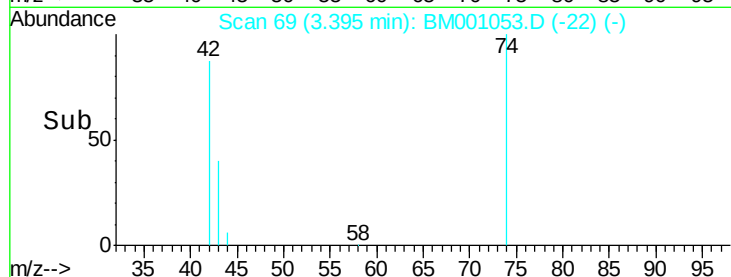


Abundance Ion 42.00 (41.70 to 42.70): BM001045.D (-66) (-)

Ion 74.00 (73.70 to 74.70): BM001045.D (-66) (-)

Ion 44.00 (43.70 to 44.70): BM001045.D (-66) (-)

Time-->



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.36 min Scan# 1074

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

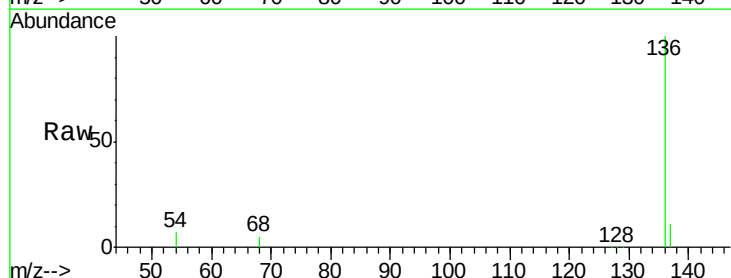
Tgt Ion: 136 Resp: 83944

Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

54 7.3 6.5 9.7

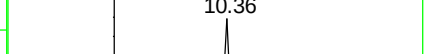
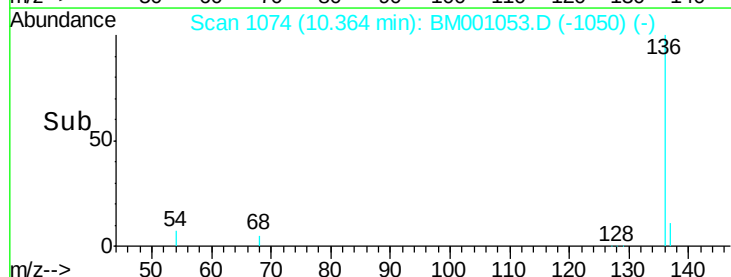


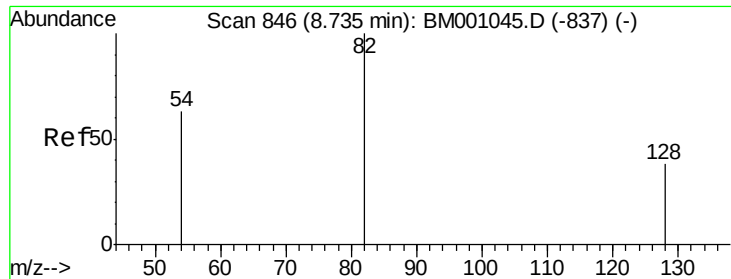
Abundance Ion 136.00 (135.70 to 136.70): BM001045.D (-1066) (-)

Ion 137.00 (136.70 to 137.70): BM001045.D (-1066) (-)

Ion 54.00 (53.70 to 54.70): BM001045.D (-1066) (-)

Time-->





#5

Nitrobenzene-d5

Concen: 6.33 ng

RT: 8.74 min Scan# 846

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

Instrument :

BNA_M

ClientSampleId :

PB82802BS

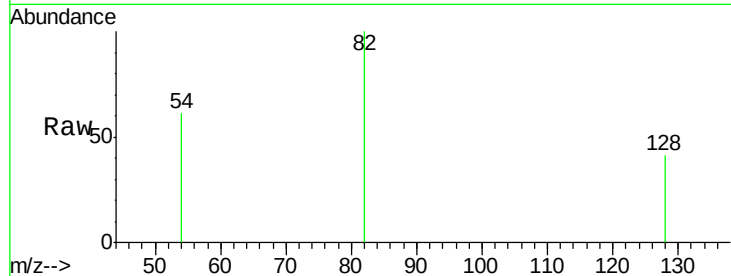
Tgt Ion: 82 Resp: 28956

Ion Ratio Lower Upper

82 100

128 41.0 31.9 47.9

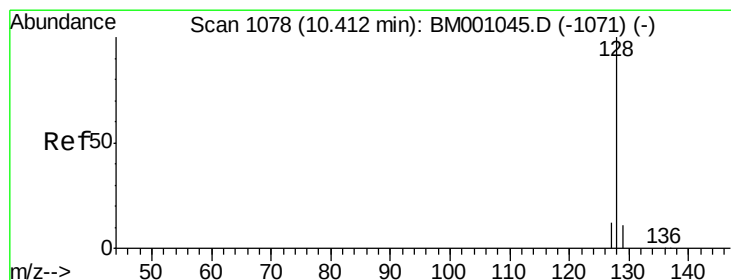
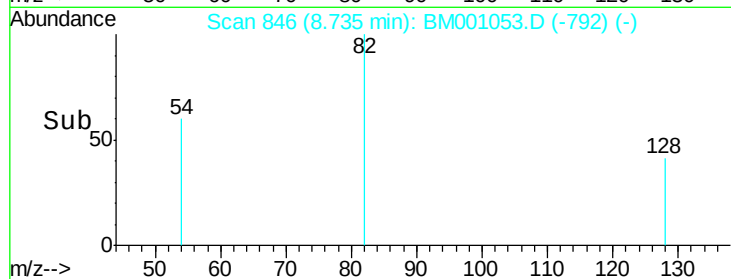
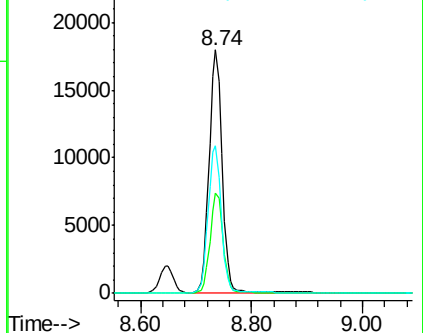
54 60.6 51.3 76.9



Abundance Ion 82.00 (81.70 to 82.70): BM001053.D (-792) (-)

Ion 128.00 (127.70 to 128.70): BM001053.D (-792) (-)

Ion 54.00 (53.70 to 54.70): BM001053.D (-792) (-)



#6

Naphthalene

Concen: 5.19 ng

RT: 10.41 min Scan# 1078

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

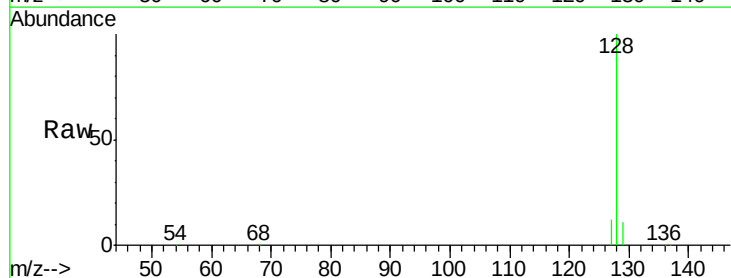
Tgt Ion: 128 Resp: 104650

Ion Ratio Lower Upper

128 100

129 11.3 9.3 13.9

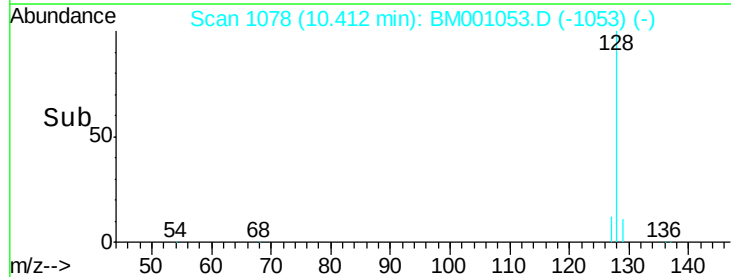
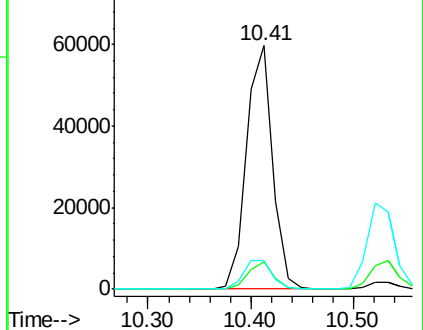
127 11.9 10.0 15.0

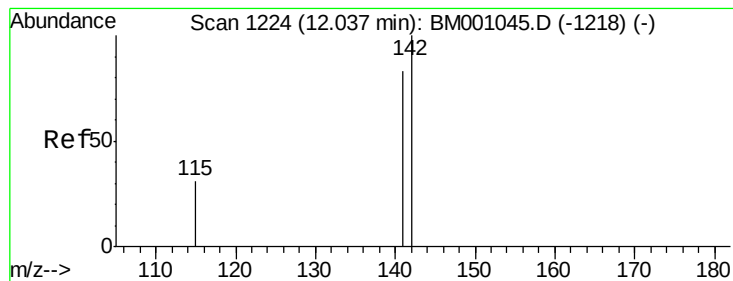


Abundance Ion 128.00 (127.70 to 128.70): BM001053.D (-1053) (-)

Ion 129.00 (128.70 to 129.70): BM001053.D (-1053) (-)

Ion 127.00 (126.70 to 127.70): BM001053.D (-1053) (-)





#7

2-Methylnaphthalene

Concen: 5.22 ng

RT: 12.04 min Scan# 1224

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

Instrument :

BNA_M

ClientSampleId :

PB82802BS

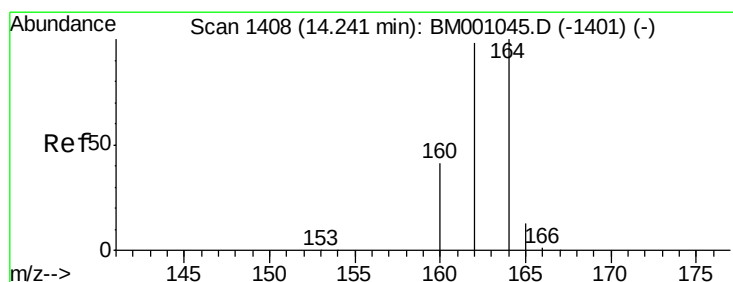
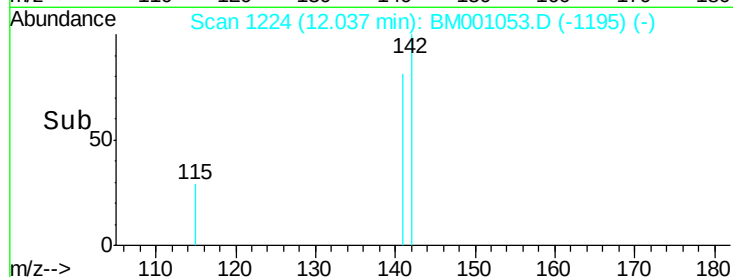
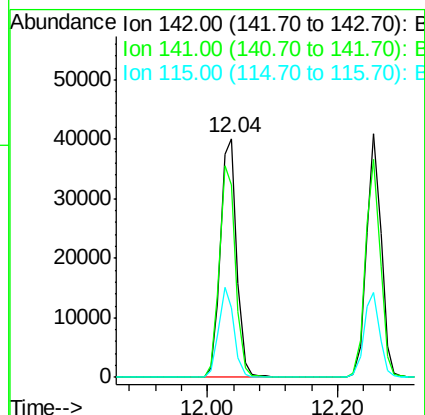
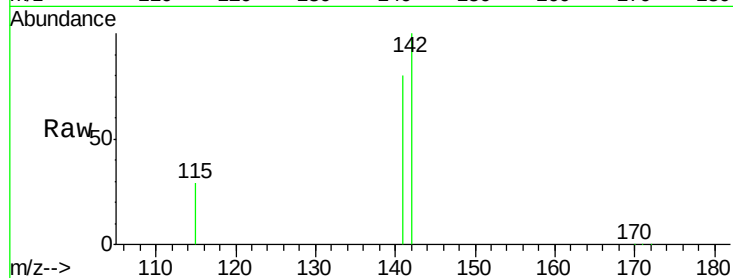
Tgt Ion:142 Resp: 69183

Ion Ratio Lower Upper

142 100

141 80.5 66.7 100.1

115 29.2 25.5 38.3



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.24 min Scan# 1408

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

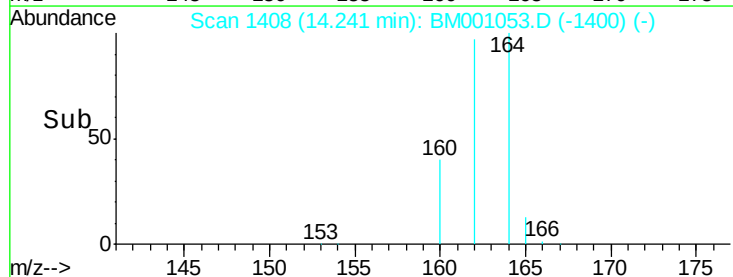
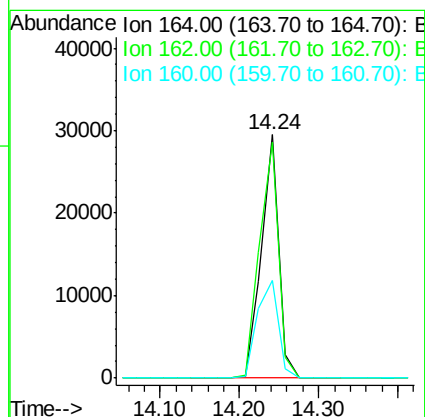
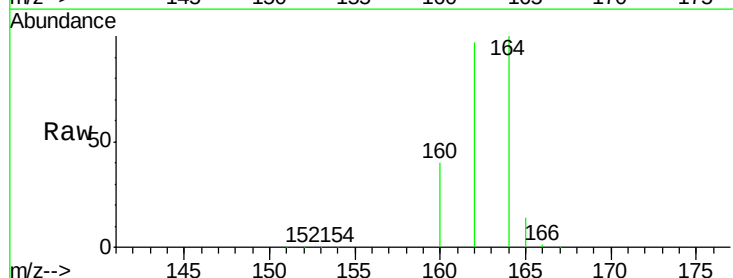
Tgt Ion:164 Resp: 45323

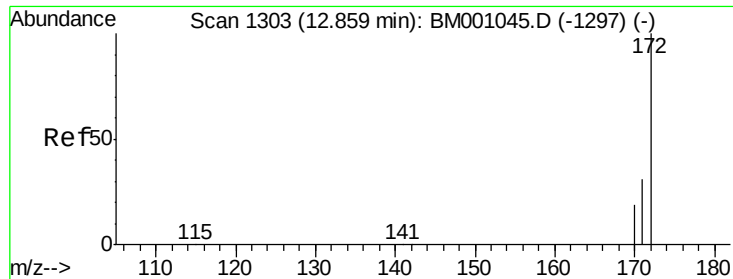
Ion Ratio Lower Upper

164 100

162 97.0 78.5 117.7

160 40.0 32.9 49.3





#9

2-Fluorobiphenyl

Concen: 5.57 ng

RT: 12.86 min Scan# 1303

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

Instrument :

BNA_M

ClientSampleId :

PB82802BS

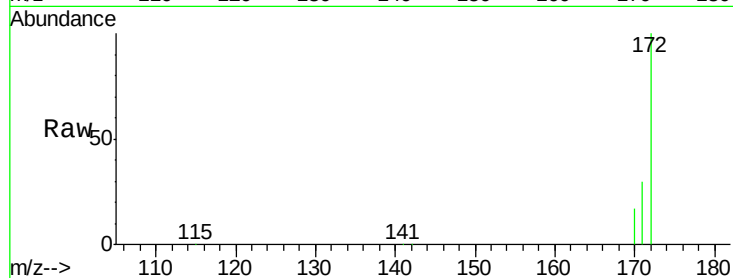
Tgt Ion:172 Resp: 83658

Ion Ratio Lower Upper

172 100

171 30.1 25.6 38.4

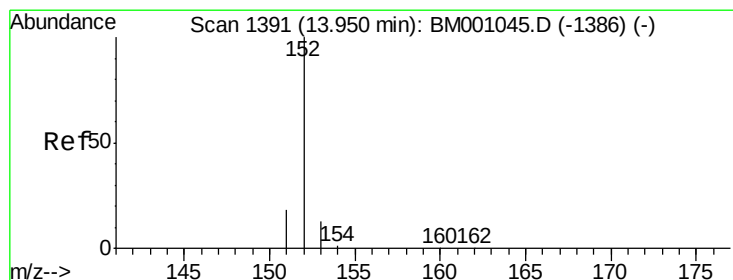
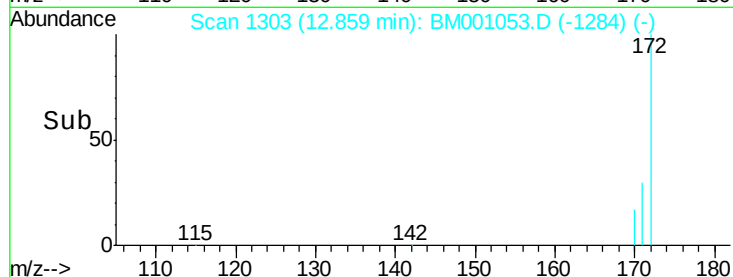
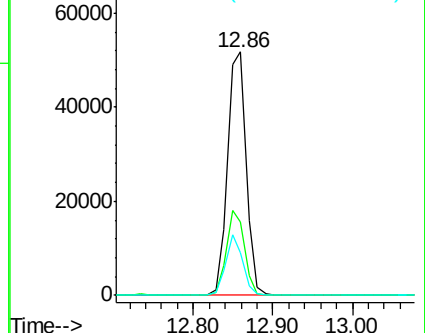
170 17.4 15.8 23.6



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: 4.68 ng

RT: 13.95 min Scan# 1391

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

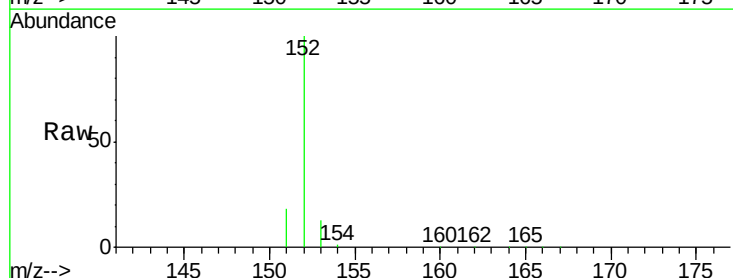
Tgt Ion:152 Resp: 121367

Ion Ratio Lower Upper

152 100

151 18.7 14.7 22.1

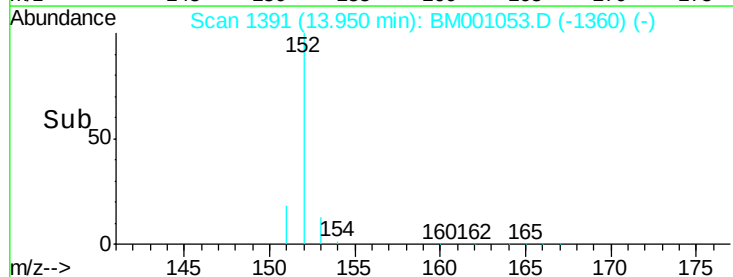
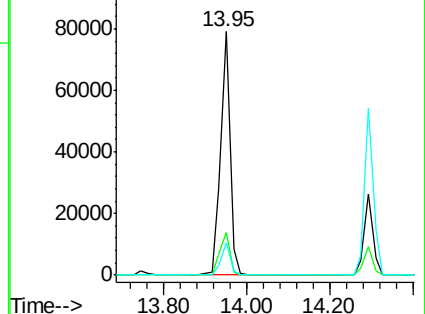
153 12.8 10.2 15.2

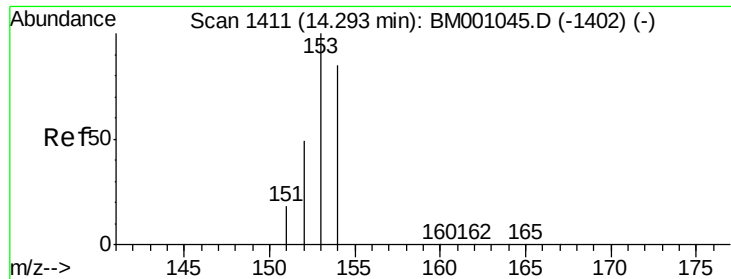


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

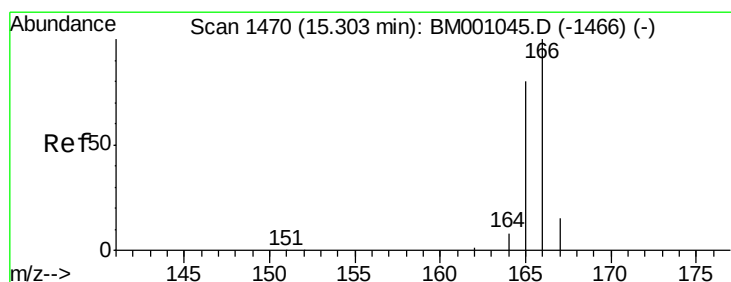
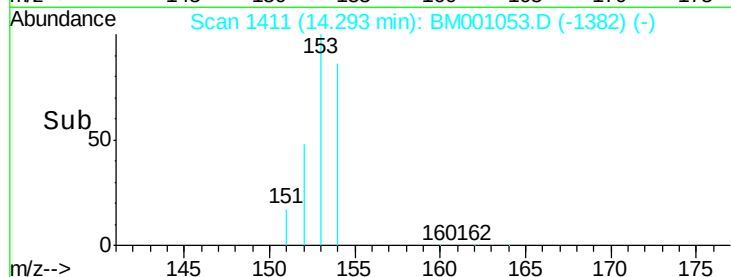
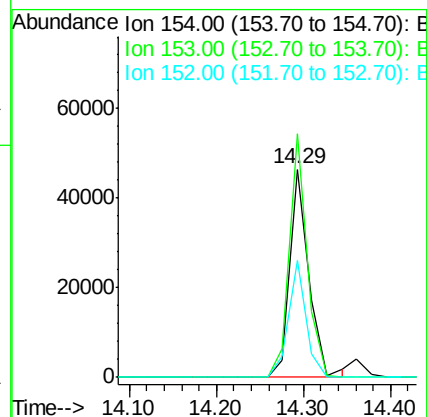
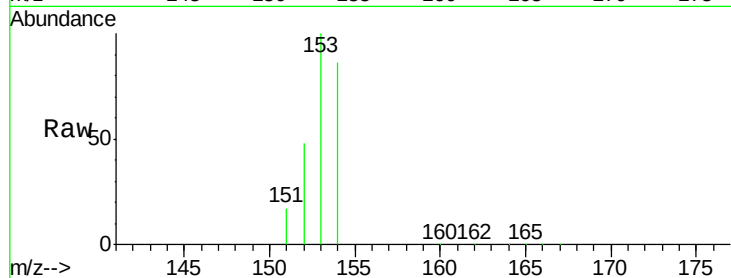




#11
Acenaphthene
Concen: 5.05 ng
RT: 14.29 min Scan# 1411
Delta R.T. 0.00 min
Lab File: BM001053.D
Acq: 18 Apr 2015 09:49

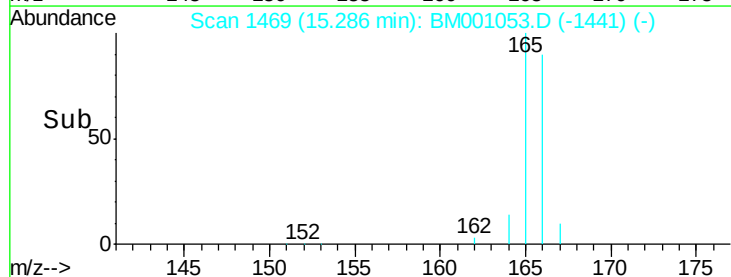
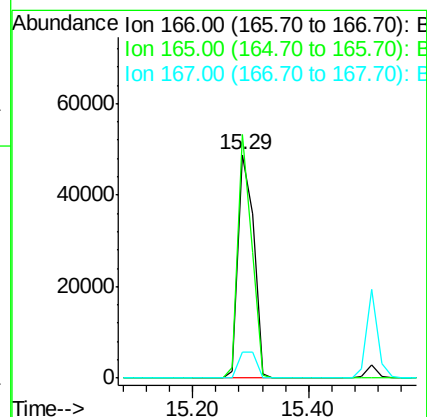
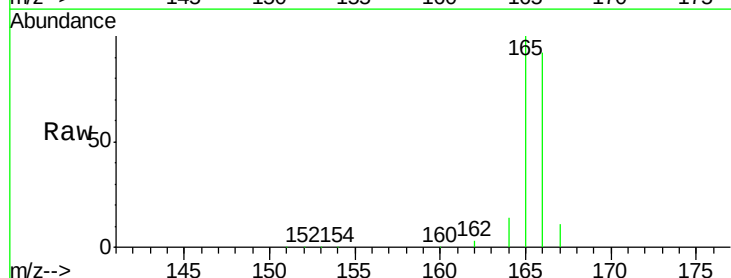
Instrument :
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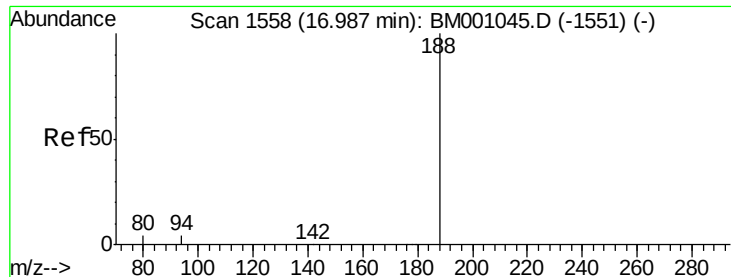
Tgt Ion:154 Resp: 71826
Ion Ratio Lower Upper
154 100
153 108.4 88.1 132.1
152 52.2 42.3 63.5



#12
Fluorene
Concen: 5.42 ng
RT: 15.29 min Scan# 1469
Delta R.T. -0.02 min
Lab File: BM001053.D
Acq: 18 Apr 2015 09:49

Tgt Ion:166 Resp: 89610
Ion Ratio Lower Upper
166 100
165 96.1 77.6 116.4
167 13.4 10.6 16.0





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.99 min Scan# 1558

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

Instrument :

BNA_M

ClientSampleId :

PB82802BS

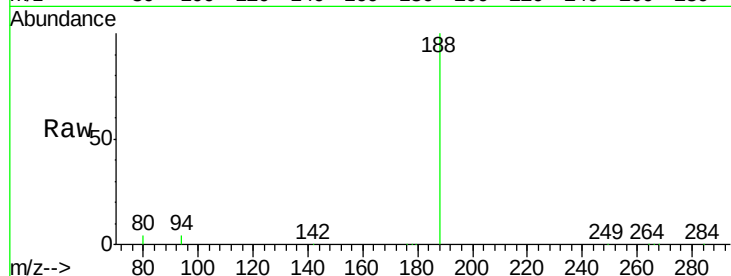
Tgt Ion:188 Resp: 99045

Ion Ratio Lower Upper

188 100

94 4.4 3.6 5.4

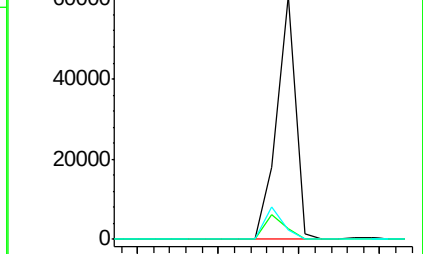
80 3.8 3.0 4.6



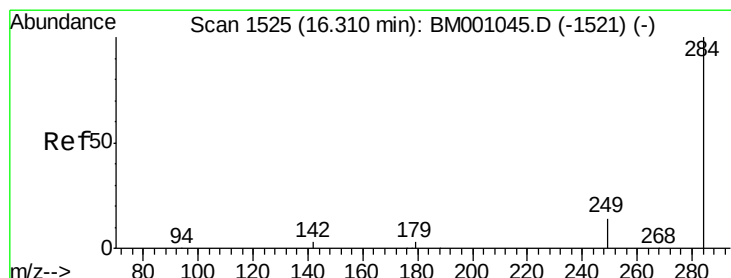
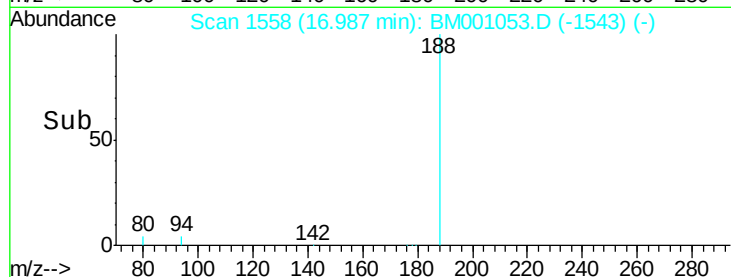
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



Time-->



#14

Hexachlorobenzene

Concen: 5.97 ng

RT: 16.31 min Scan# 1525

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

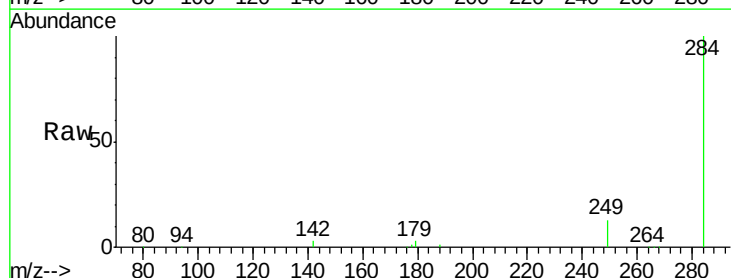
Tgt Ion:284 Resp: 29469

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

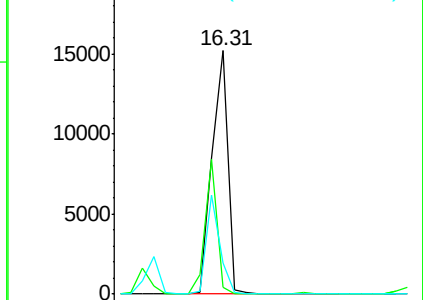
249 0.0 0.0 0.0



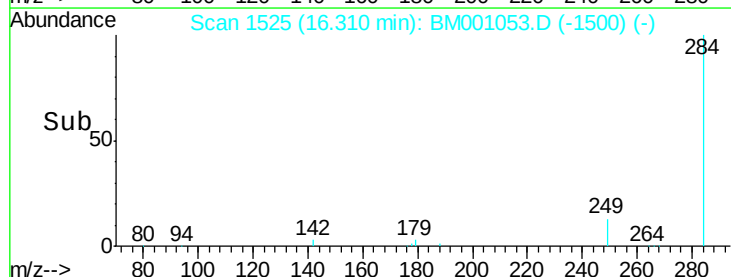
Abundance Ion 283.80 (283.50 to 284.50): E

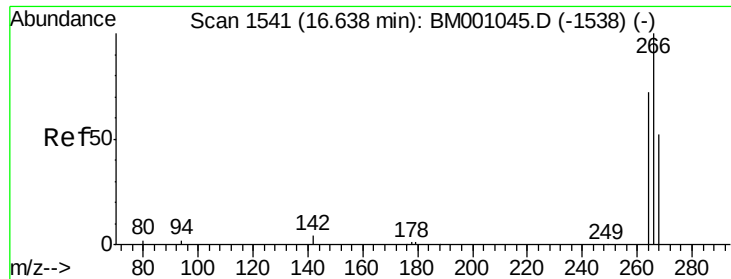
Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



Time-->

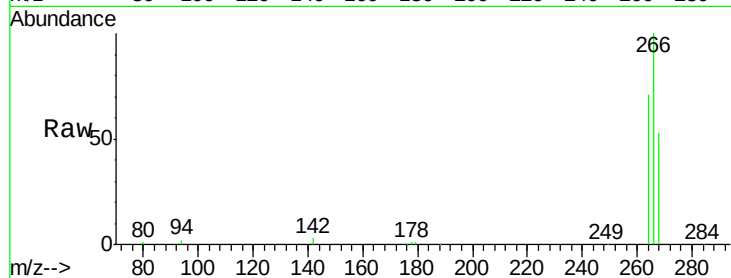




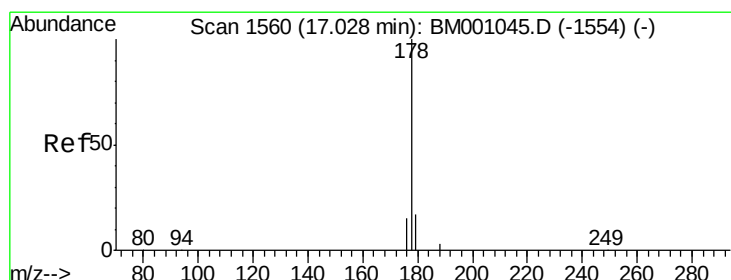
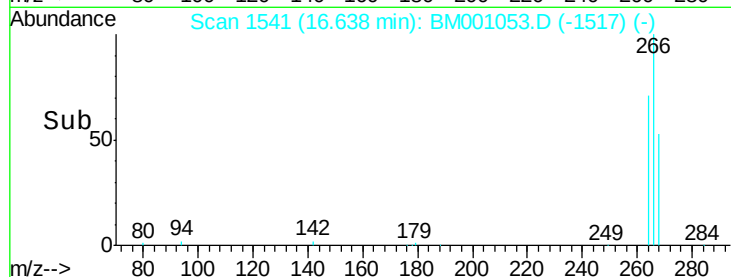
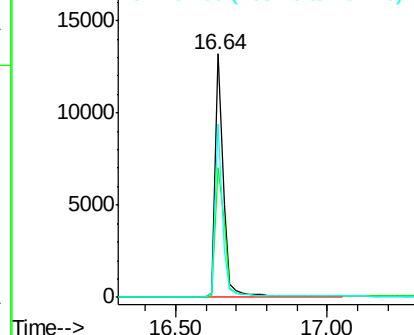
#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 16.64 min Scan# 1541
 Delta R.T. 0.00 min
 Lab File: BM001053.D
 Acq: 18 Apr 2015 09:49

Instrument :
 BNA_M
 ClientSampleId :
 PB82802BS

Tgt Ion: 266 Resp: 24894
 Ion Ratio Lower Upper
 266 100
 268 53.1 46.3 69.5
 264 71.0 59.8 89.6

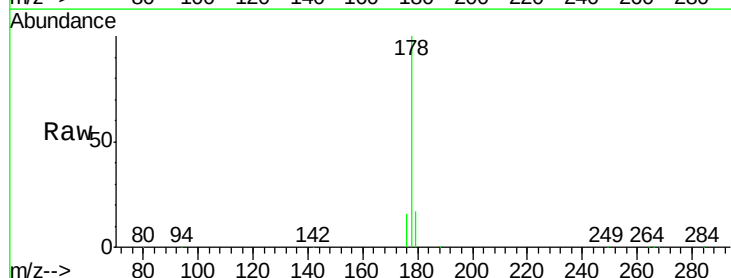


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

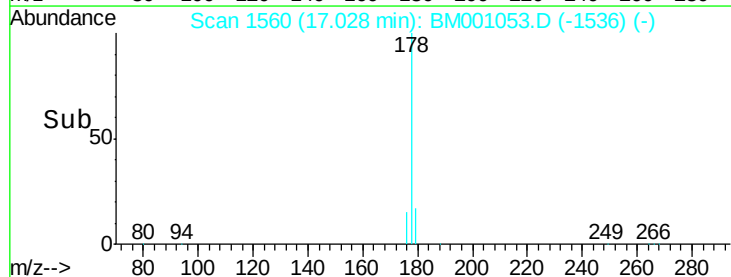
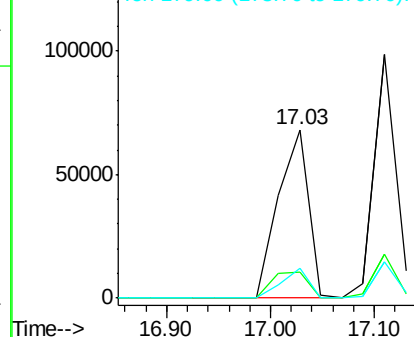


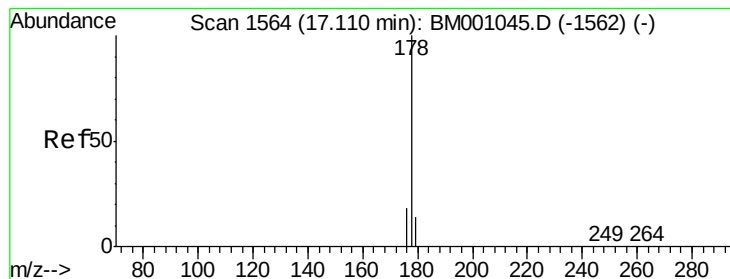
#16
 Phenanthrene
 Concen: 5.73 ng
 RT: 17.03 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: BM001053.D
 Acq: 18 Apr 2015 09:49

Tgt Ion: 178 Resp: 136983
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.6 22.0
 179 15.4 12.6 19.0



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: 6.29 ng

RT: 17.11 min Scan# 1564

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

Instrument :

BNA_M

ClientSampleId :

PB82802BS

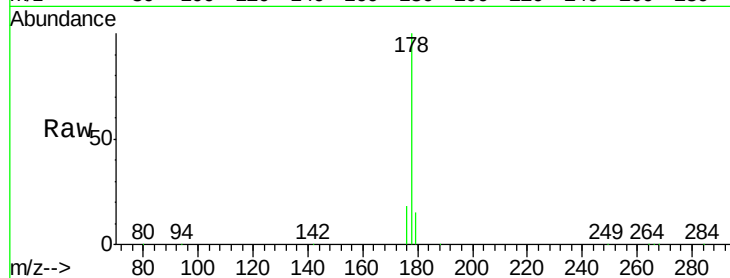
Tgt Ion:178 Resp: 145421

Ion Ratio Lower Upper

178 100

176 18.0 14.3 21.5

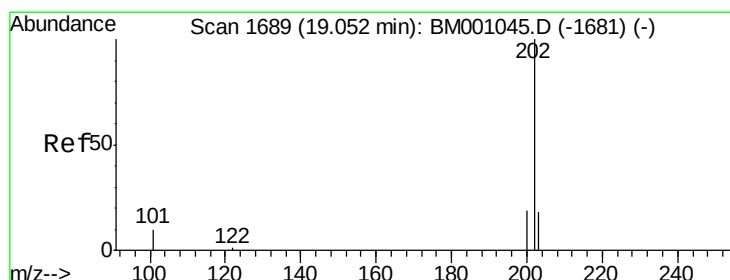
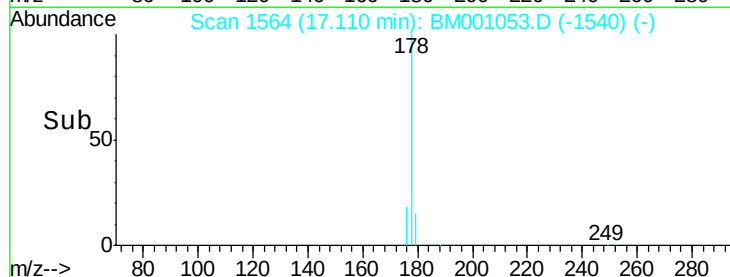
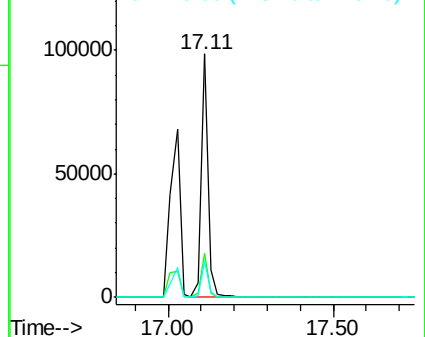
179 15.3 11.8 17.8



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: 6.21 ng

RT: 19.05 min Scan# 1689

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

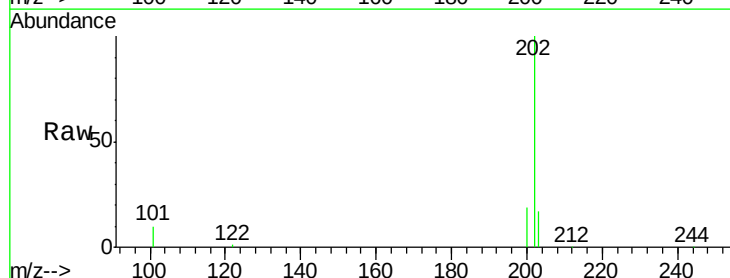
Tgt Ion:202 Resp: 162428

Ion Ratio Lower Upper

202 100

101 12.9 10.1 15.1

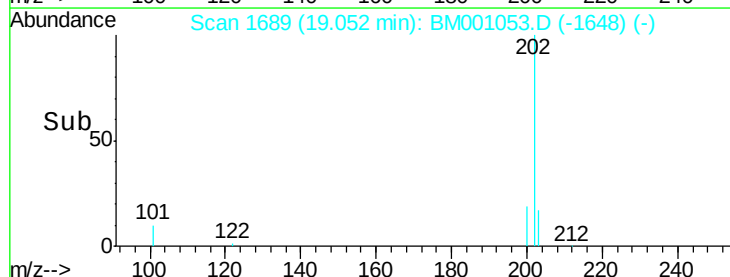
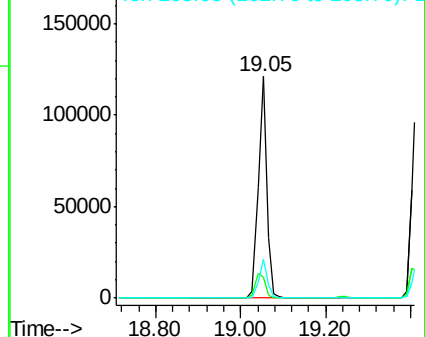
203 17.2 13.8 20.8

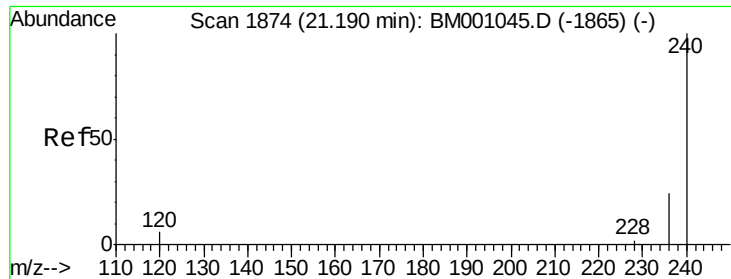


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.19 min Scan# 1874

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

Instrument :

BNA_M

ClientSampleId :

PB82802BS

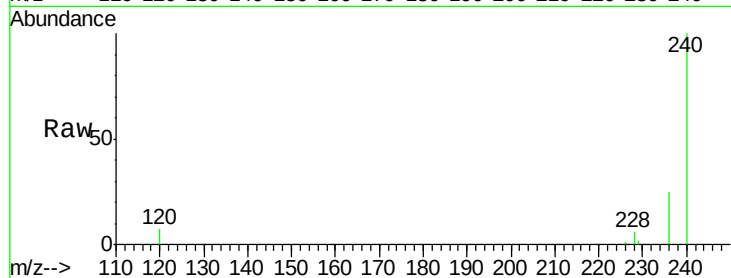
Tgt Ion:240 Resp: 91756

Ion Ratio Lower Upper

240 100

120 7.0 4.6 6.8#

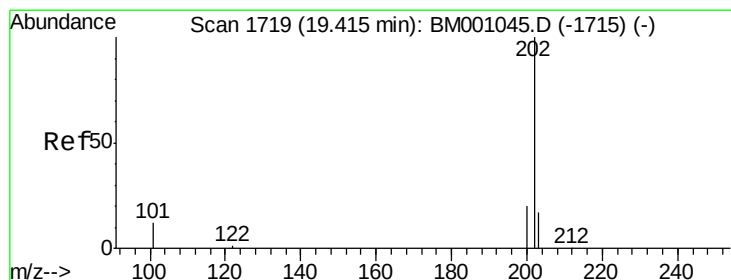
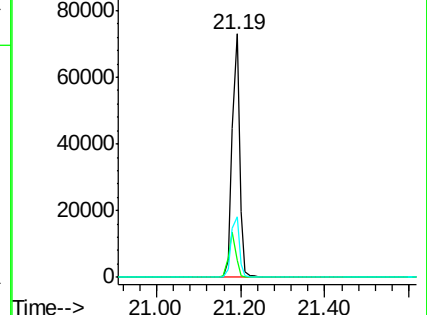
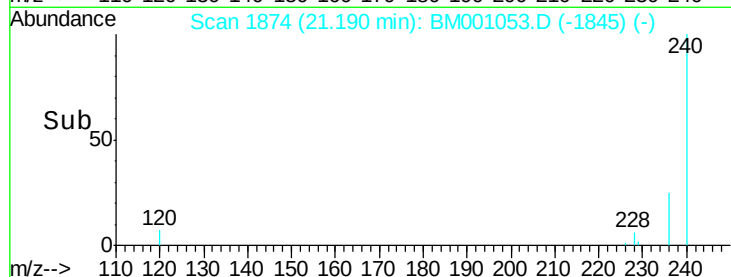
236 25.0 19.1 28.7



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: 6.72 ng

RT: 19.42 min Scan# 1719

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

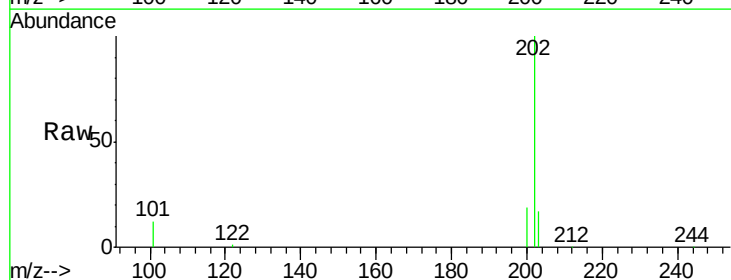
Tgt Ion:202 Resp: 175096

Ion Ratio Lower Upper

202 100

200 20.3 16.3 24.5

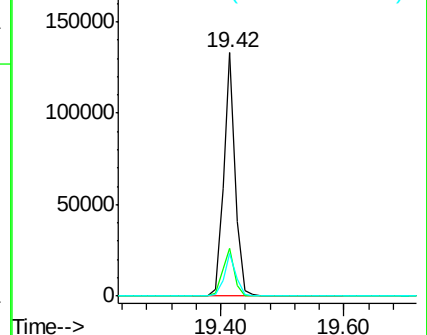
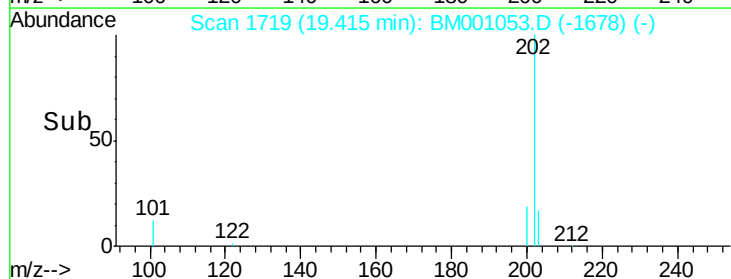
203 17.7 13.8 20.6

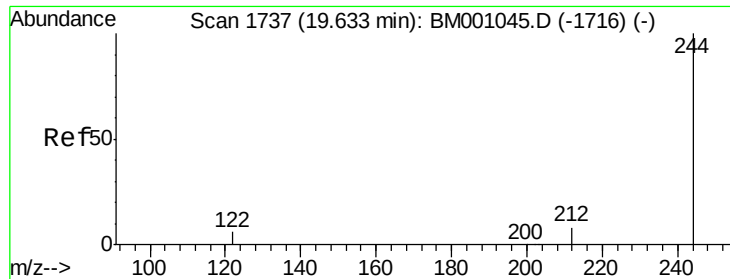


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 7.26 ng

RT: 19.63 min Scan# 1737

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

Instrument :

BNA_M

ClientSampleId :

PB82802BS

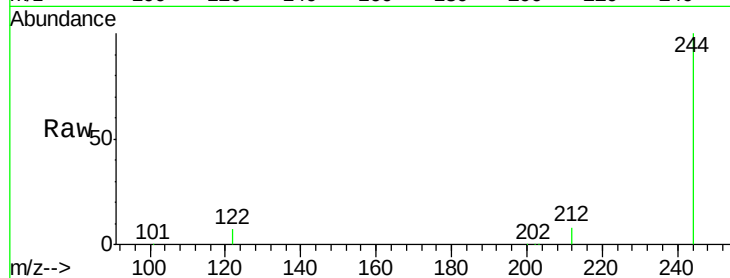
Tgt Ion:244 Resp: 70383

Ion Ratio Lower Upper

244 100

212 8.2 7.1 10.7

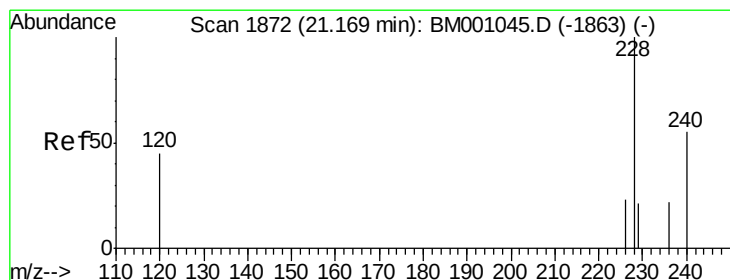
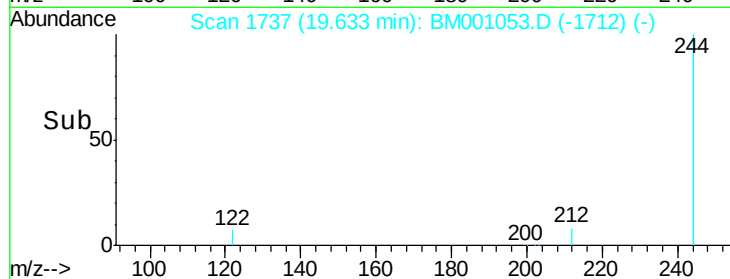
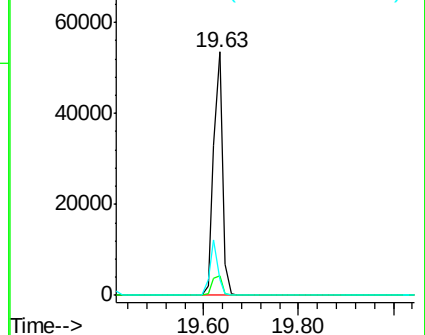
122 6.7 5.9 8.9



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: 7.21 ng

RT: 21.17 min Scan# 1872

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

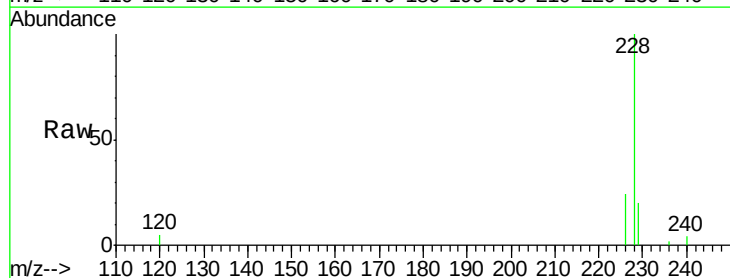
Tgt Ion:228 Resp: 159810

Ion Ratio Lower Upper

228 100

226 24.3 19.0 28.6

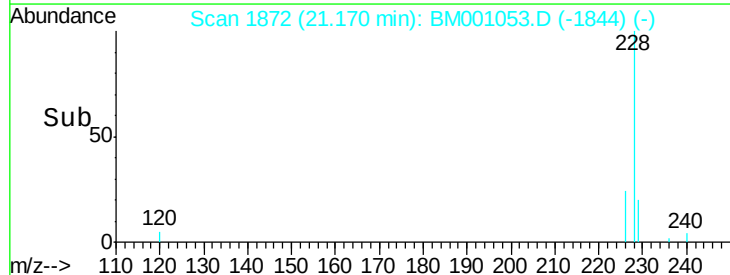
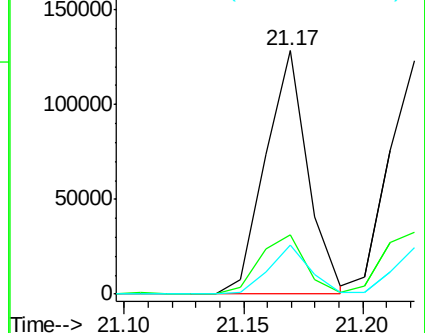
229 20.1 16.8 25.2

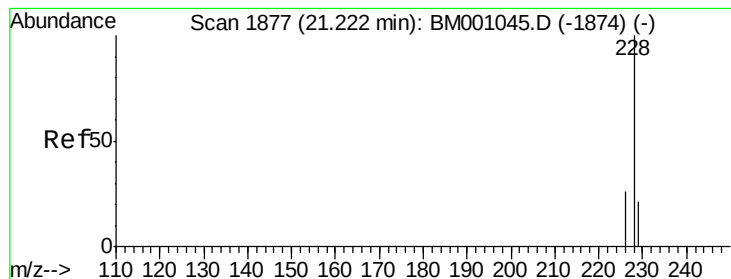


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 7.67 ng

RT: 21.22 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

Instrument :

BNA_M

ClientSampleId :

PB82802BS

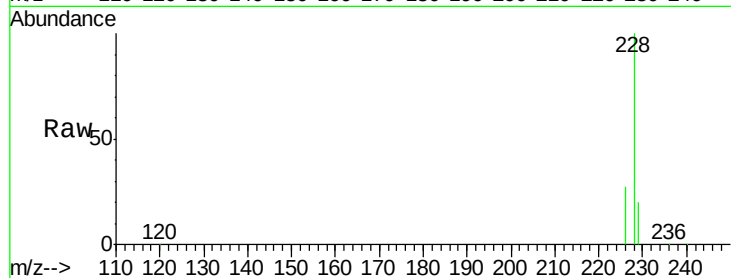
Tgt Ion:228 Resp: 156881

Ion Ratio Lower Upper

228 100

226 26.8 20.6 31.0

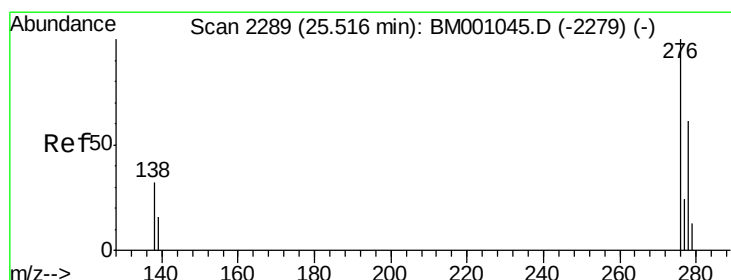
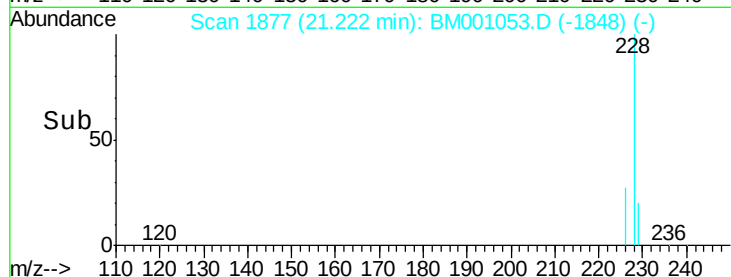
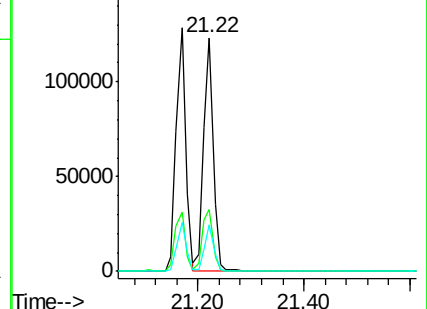
229 20.1 17.2 25.8



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 6.40 ng

RT: 25.52 min Scan# 2289

Delta R.T. 0.00 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

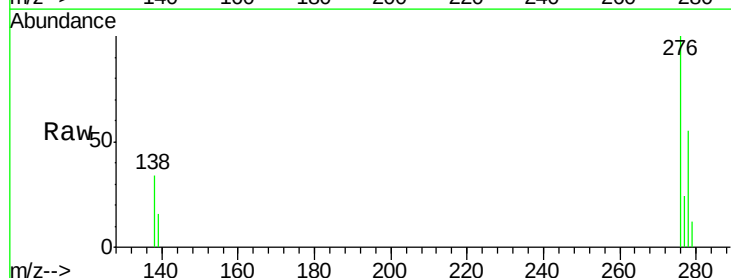
Tgt Ion:276 Resp: 160958

Ion Ratio Lower Upper

276 100

138 33.8 26.3 39.5

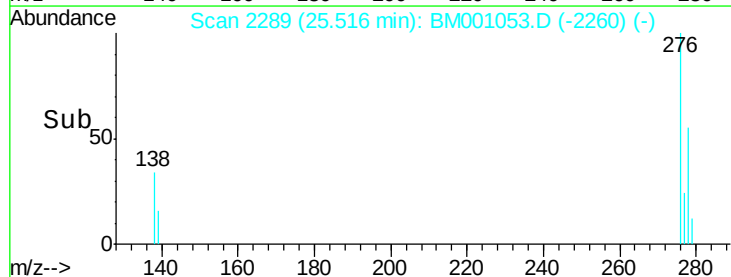
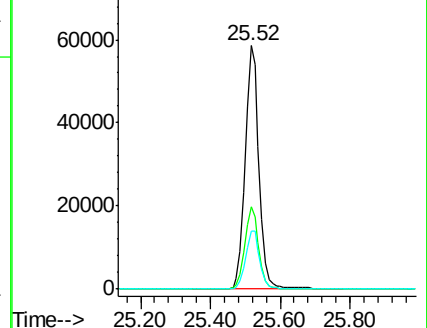
277 24.6 19.5 29.3

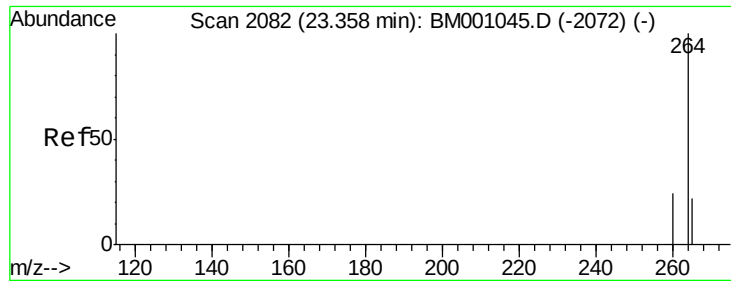


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

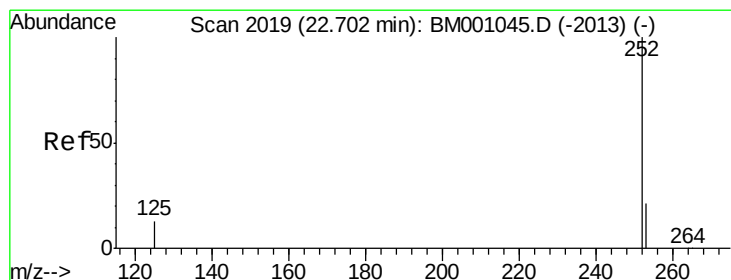
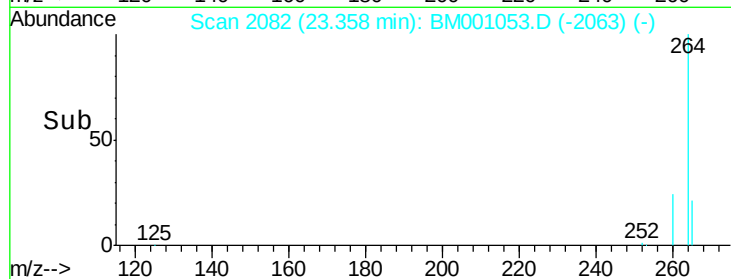
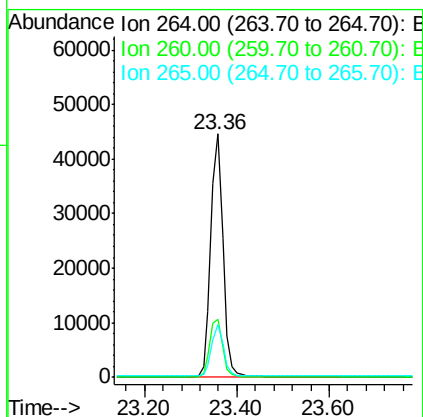
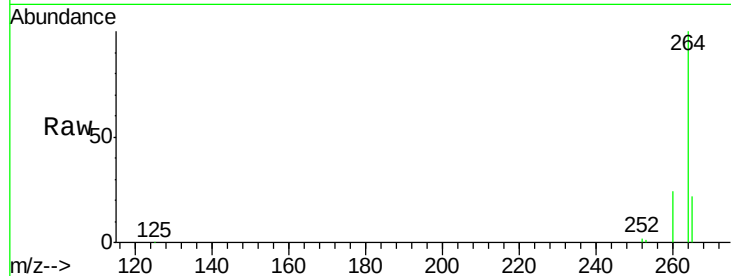




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.36 min Scan# 2082
 Delta R.T. 0.00 min
 Lab File: BM001053.D
 Acq: 18 Apr 2015 09:49

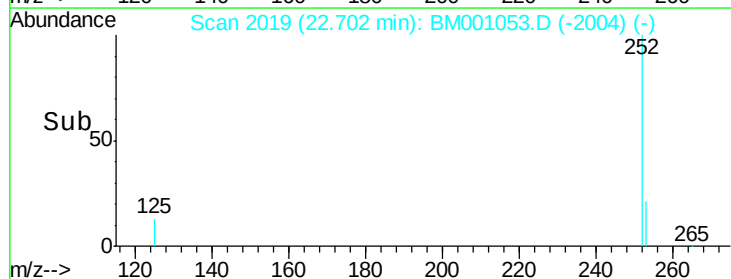
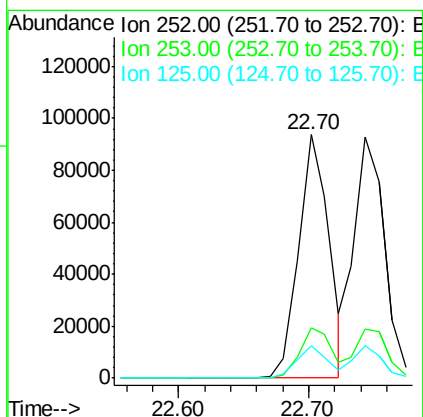
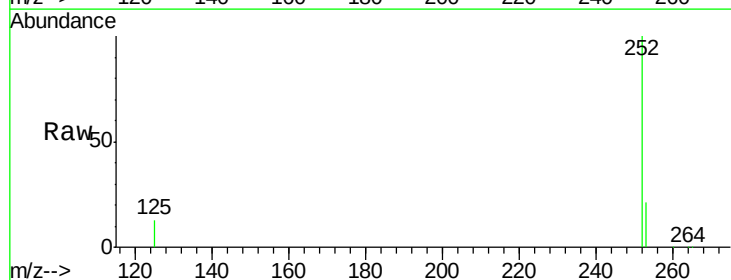
Instrument :
 BNA_M
 ClientSampleId :
 PB82802BS

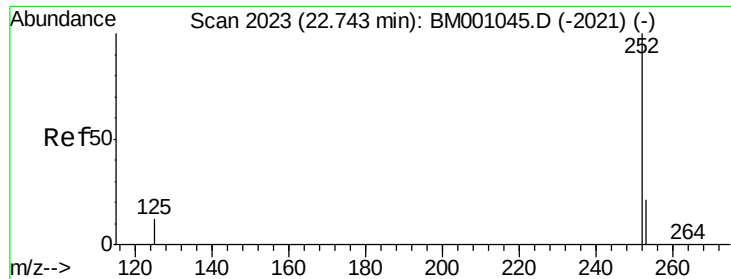
Tgt Ion: 264 Resp: 82685
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.0 28.6
 265 21.8 17.9 26.9



#26
 Benzo(b)fluoranthene
 Concen: 6.49 ng
 RT: 22.70 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: BM001053.D
 Acq: 18 Apr 2015 09:49

Tgt Ion: 252 Resp: 151059
 Ion Ratio Lower Upper
 252 100
 253 20.9 18.2 27.2
 125 13.5 10.9 16.3





#27

Benzo(k)fluoranthene

Concen: 7.29 ng

RT: 22.74 min Scan# 2023

Delta R.T. 0.00 min

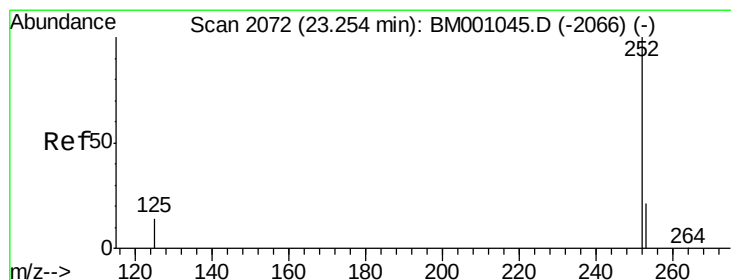
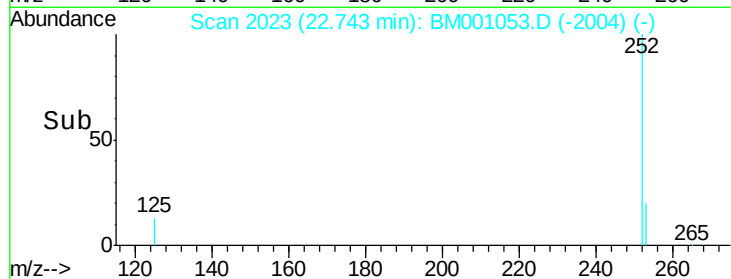
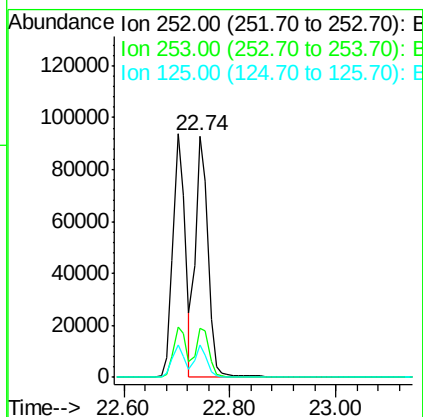
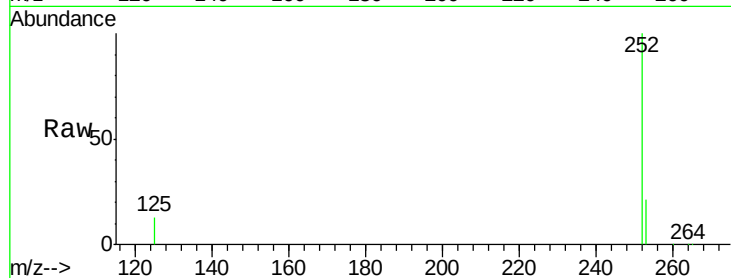
Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

Instrument :
BNA_M
ClientSampleId :
PB82802BS

Tgt Ion:252 Resp: 152363

Ion	Ratio	Lower	Upper
252	100		
253	20.6	18.3	27.5
125	13.4	10.6	15.8



#28

Benzo(a)pyrene

Concen: 7.70 ng

RT: 23.25 min Scan# 2072

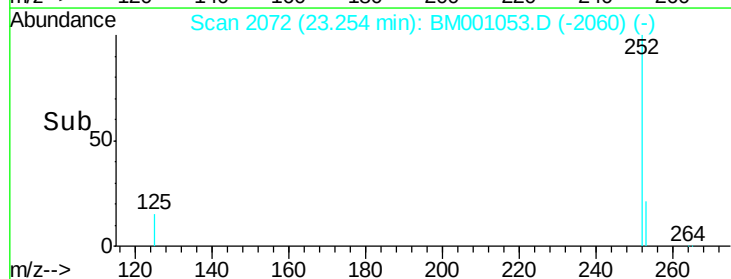
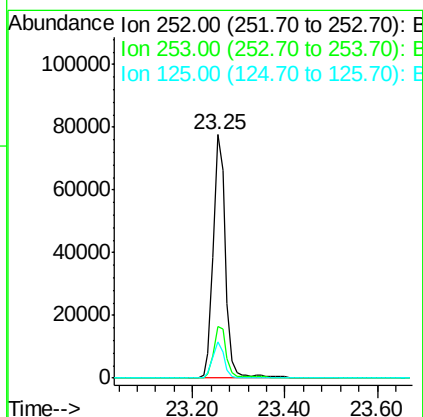
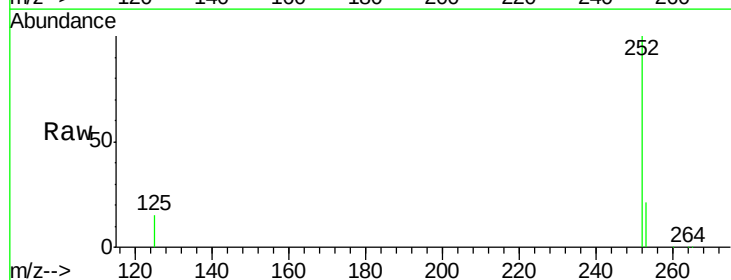
Delta R.T. 0.00 min

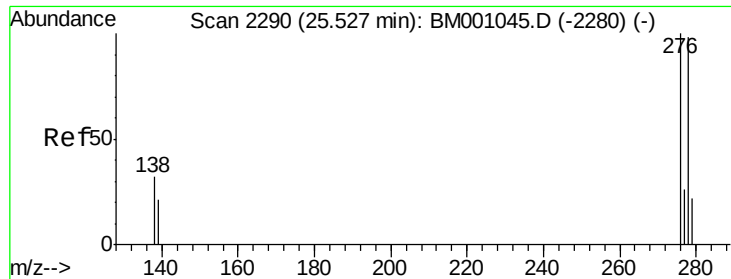
Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

Tgt Ion:252 Resp: 142497

Ion	Ratio	Lower	Upper
252	100		
253	21.0	18.6	27.8
125	14.8	11.9	17.9





#29

Dibenzo(a,h)anthracene

Concen: 6.85 ng

RT: 25.54 min Scan# 2291

Delta R.T. 0.01 min

Lab File: BM001053.D

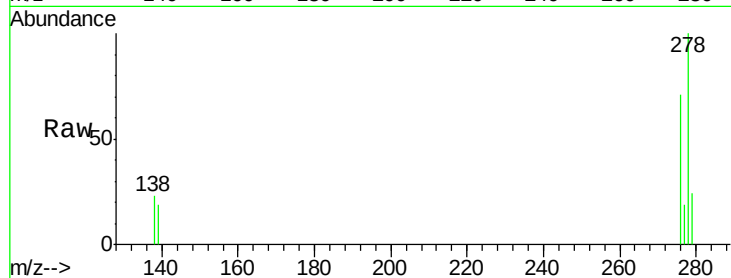
Acq: 18 Apr 2015 09:49

Instrument :

BNA_M

ClientSampleId :

PB82802BS



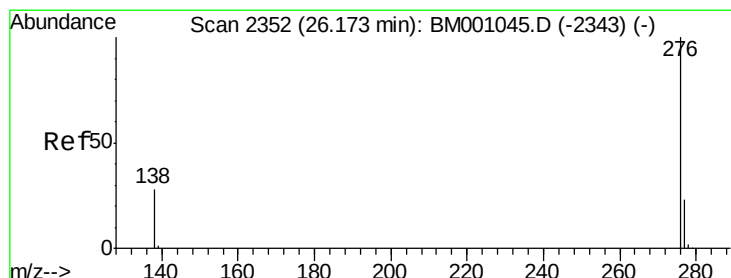
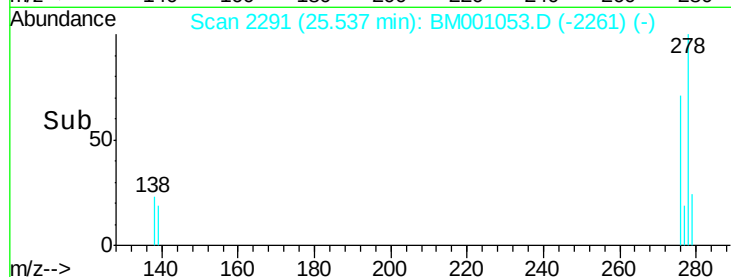
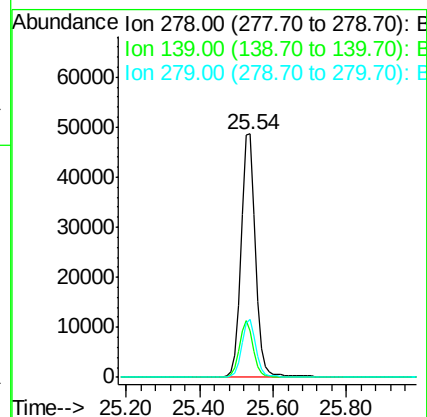
Tgt Ion:278 Resp: 131919

Ion Ratio Lower Upper

278 100

139 19.2 18.2 27.2

279 23.8 19.1 28.7



#30

Benzo(g,h,i)perylene

Concen: 6.83 ng

RT: 26.18 min Scan# 2353

Delta R.T. 0.01 min

Lab File: BM001053.D

Acq: 18 Apr 2015 09:49

Tgt Ion:276 Resp: 137483

Ion Ratio Lower Upper

276 100

277 23.5 19.0 28.4

138 27.6 23.4 35.2

