

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM041815\
 Data File : BM001050.D
 Acq On : 18 Apr 2015 08:02
 Operator : TP/IZ
 Sample : PB82779BS
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PB82779BS

Quant Time: Apr 20 08:05:31 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	26664	5.00	ng	0.00
4) Naphthalene-d8	10.36	136	97624	5.00	ng	0.00
8) Acenaphthene-d10	14.24	164	53014	5.00	ng	0.00
13) Phenanthrene-d10	16.99	188	112354	5.00	ng	0.00
19) Chrysene-d12	21.19	240	100307	5.00	ng	0.00
25) Perylene-d12	23.36	264	90257	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.74	82	31308	5.89	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	89408	5.09	ng	-0.01
21) Terphenyl-d14	19.63	244	71395	6.00	ng	0.00

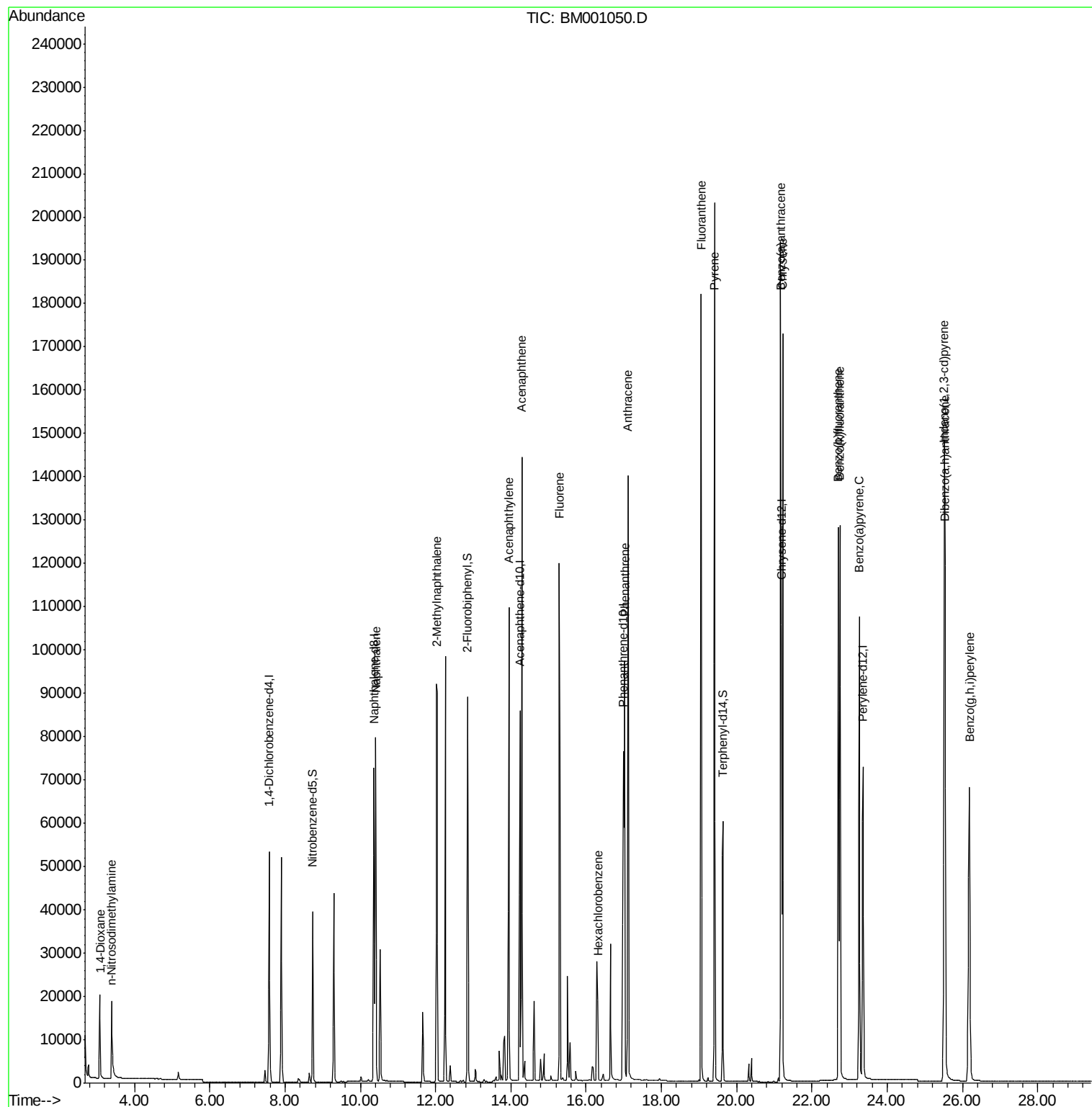
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.08	88	12532	4.27	ng	# 100
3) n-Nitrosodimethylamine	3.38	42	14841	5.13	ng	96
6) Naphthalene	10.41	128	110691	4.72	ng	99
7) 2-Methylnaphthalene	12.04	142	73212	4.75	ng	97
10) Acenaphthylene	13.95	152	126914	4.20	ng	99
11) Acenaphthene	14.29	154	75305	4.52	ng	99
12) Fluorene	15.29	166	93174	4.82	ng	100
14) Hexachlorobenzene	16.31	284	30623	5.11	ng	# 100
15) Pentachlorophenol	16.64	266	25731	Below Cal		96
16) Phenanthrene	17.03	178	142852	4.97	ng	99
17) Anthracene	17.11	178	154136	5.88	ng	99
18) Fluoranthene	19.05	202	164074	5.53	ng	100
20) Pyrene	19.42	202	176763	5.70	ng	99
22) Benzo(a)anthracene	21.17	228	157123	5.69	ng	99
23) Chrysene	21.22	228	154765	5.77	ng	98
24) Indeno(1,2,3-cd)pyrene	25.52	276	159144	5.28	ng	99
26) Benzo(b)fluoranthene	22.70	252	151099	5.38	ng	97
27) Benzo(k)fluoranthene	22.74	252	148631	5.66	ng	97
28) Benzo(a)pyrene	23.25	252	139059	5.75	ng	97
29) Dibenzo(a,h)anthracene	25.54	278	129678	5.43	ng	96
30) Benzo(g,h,i)perylene	26.18	276	135323	5.43	ng	98

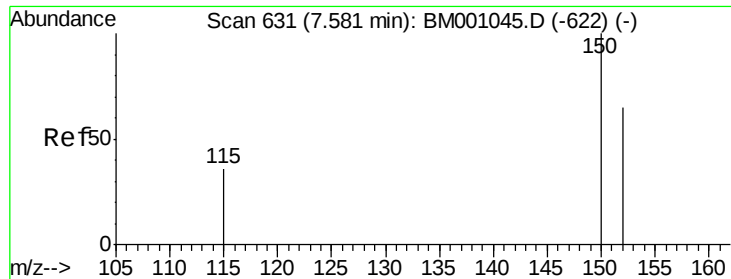
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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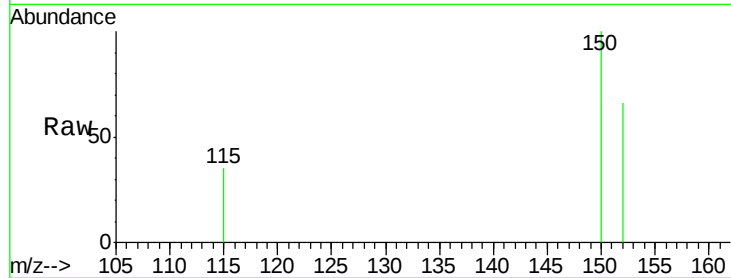


#1

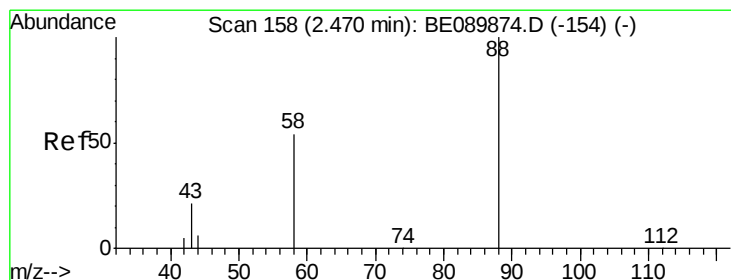
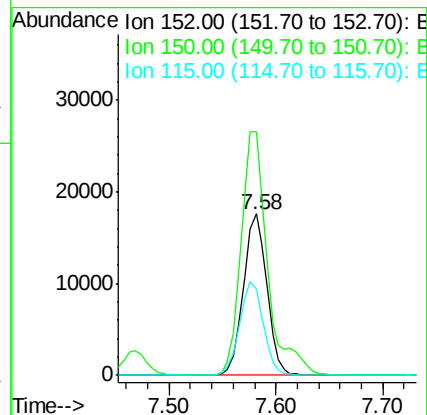
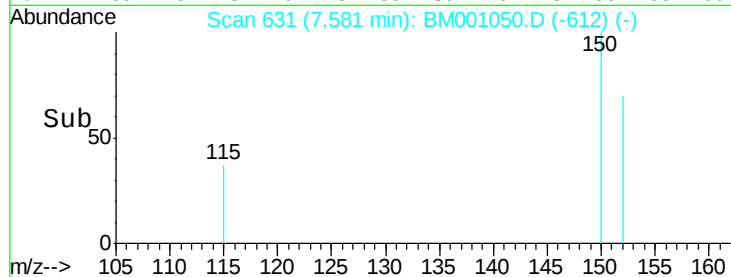
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.58 min Scan# 631
Delta R.T. 0.00 min
Lab File: BM001050.D
Acq: 18 Apr 2015 08:02

Instrument :
BNA_M
ClientSampleId :
PB82779BS

Tgt Ion: 152 Resp: 26664
Ion Ratio Lower Upper
152 100
150 150.8 123.3 184.9
115 53.3 45.0 67.6



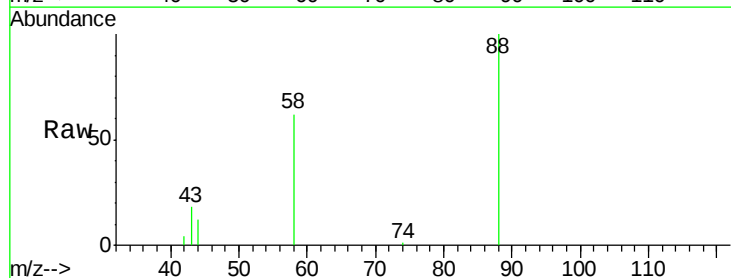
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



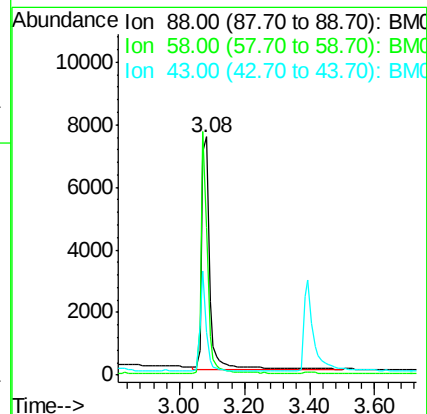
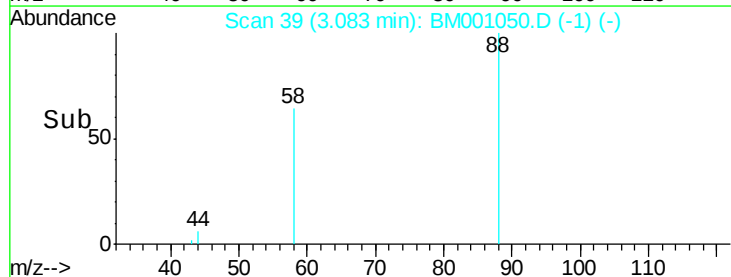
#2

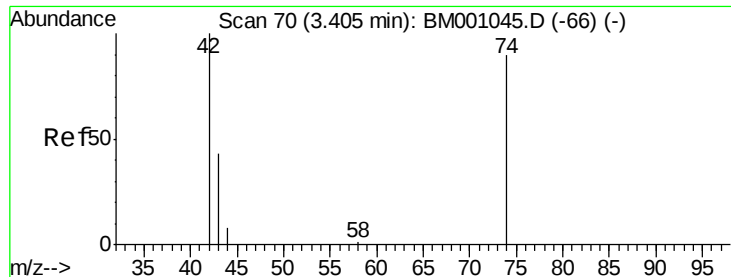
1,4-Dioxane
Concen: 4.27 ng
RT: 3.08 min Scan# 39
Delta R.T. 0.00 min
Lab File: BM001050.D
Acq: 18 Apr 2015 08:02

Tgt Ion: 88 Resp: 12532
Ion Ratio Lower Upper
88 100
58 81.3 0.0 0.0#
43 34.2 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: 5.13 ng

RT: 3.38 min Scan# 68

Delta R.T. -0.02 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

Instrument :

BNA_M

ClientSampleId :

PB82779BS

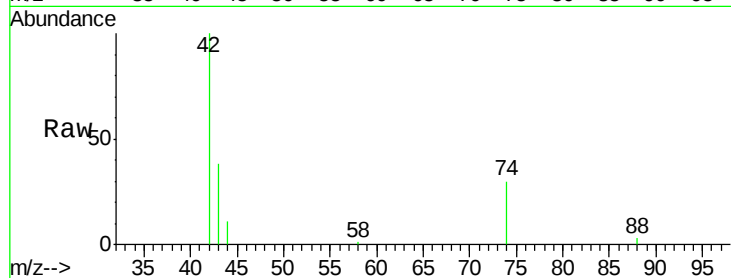
Tgt Ion: 42 Resp: 14841

Ion Ratio Lower Upper

42 100

74 110.7 92.1 138.1

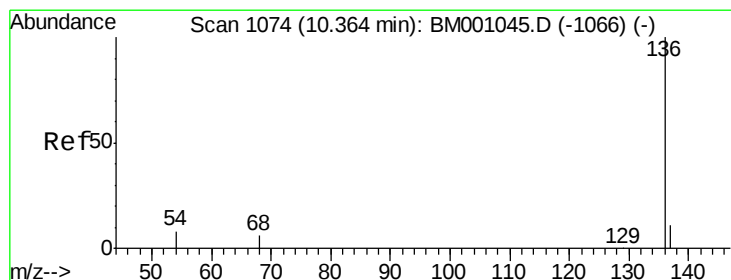
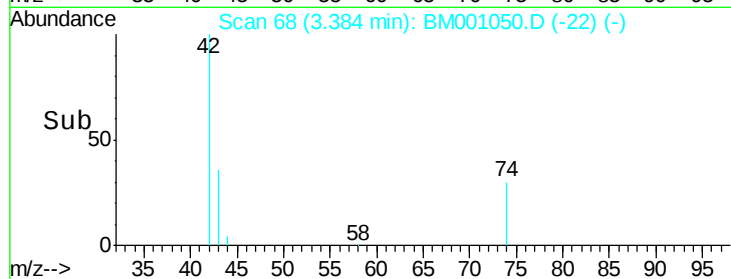
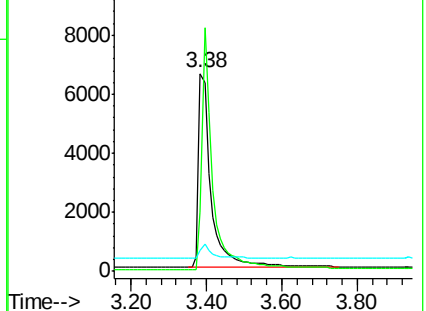
44 5.9 5.8 8.6



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) (-)



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.36 min Scan# 1074

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

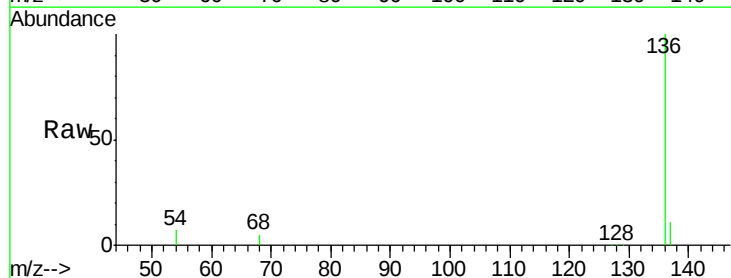
Tgt Ion: 136 Resp: 97624

Ion Ratio Lower Upper

136 100

137 11.1 8.6 13.0

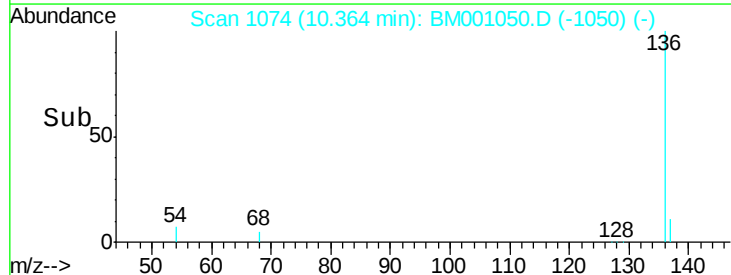
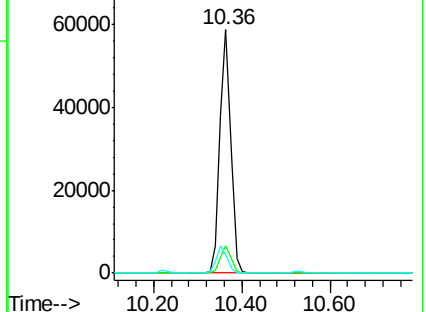
54 7.3 6.5 9.7

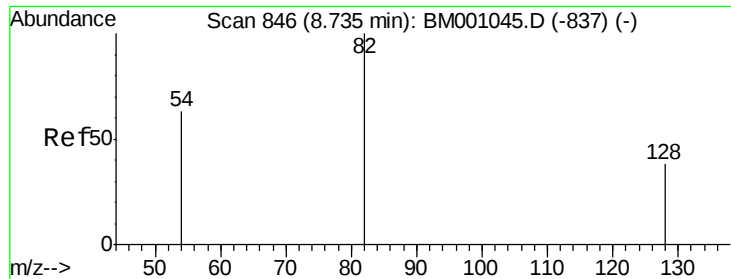


Abundance Ion 136.00 (135.70 to 136.70): BM001045.D (-1066) (-)

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

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





#5

Nitrobenzene-d5

Concen: 5.89 ng

RT: 8.74 min Scan# 846

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

Instrument :

BNA_M

ClientSampleId :

PB82779BS

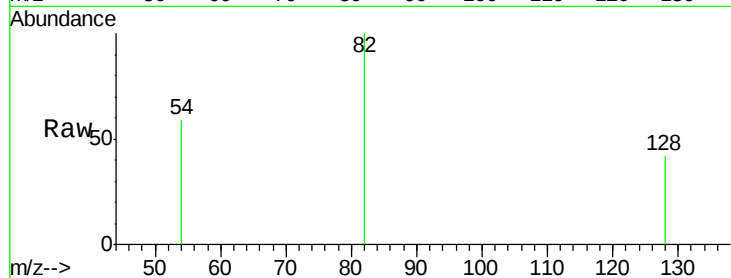
Tgt Ion: 82 Resp: 31308

Ion Ratio Lower Upper

82 100

128 41.6 31.9 47.9

54 59.4 51.3 76.9

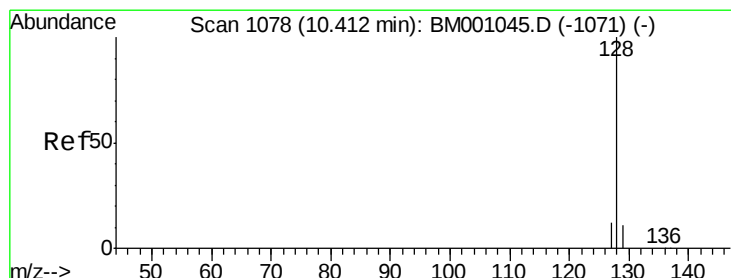
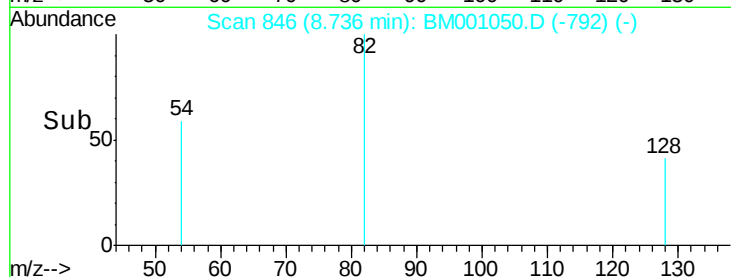


Abundance Ion 82.00 (81.70 to 82.70): BM001045.D (-837) (-)

Ion 128.00 (127.70 to 128.70): BM001045.D (-837) (-)

Ion 54.00 (53.70 to 54.70): BM001045.D (-837) (-)

Time-->



#6

Naphthalene

Concen: 4.72 ng

RT: 10.41 min Scan# 1078

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

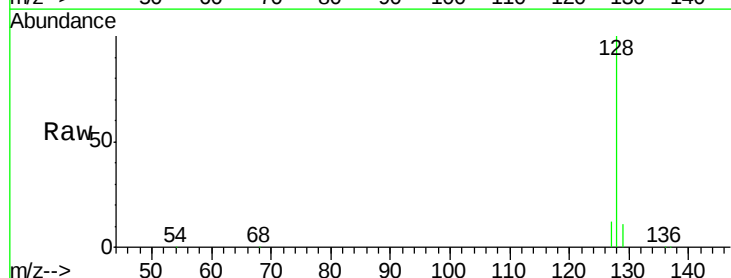
Tgt Ion: 128 Resp: 110691

Ion Ratio Lower Upper

128 100

129 11.3 9.3 13.9

127 11.7 10.0 15.0

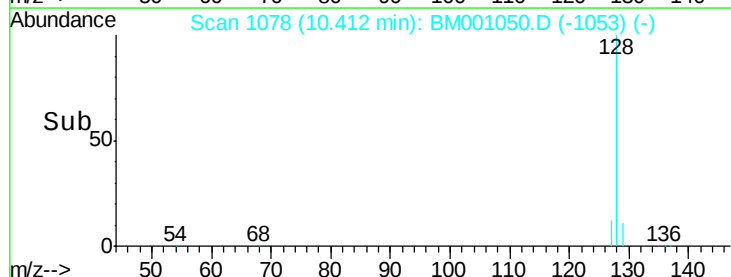


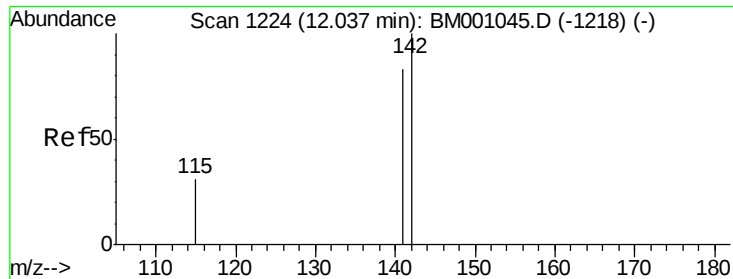
Abundance Ion 128.00 (127.70 to 128.70): BM001045.D (-1071) (-)

Ion 129.00 (128.70 to 129.70): BM001045.D (-1071) (-)

Ion 127.00 (126.70 to 127.70): BM001045.D (-1071) (-)

Time-->





#7

2-Methylnaphthalene

Concen: 4.75 ng

RT: 12.04 min Scan# 1224

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

Instrument :

BNA_M

ClientSampleId :

PB82779BS

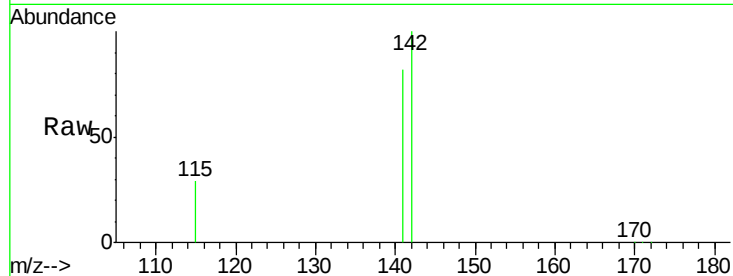
Tgt Ion:142 Resp: 73212

Ion Ratio Lower Upper

142 100

141 81.7 66.7 100.1

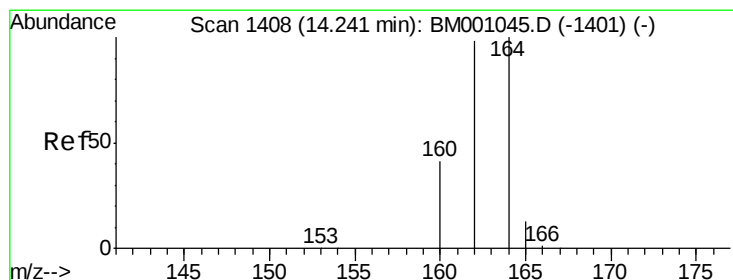
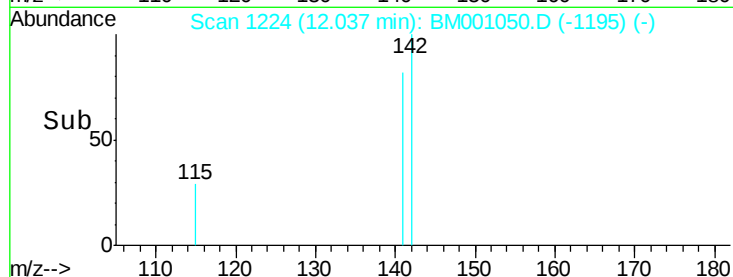
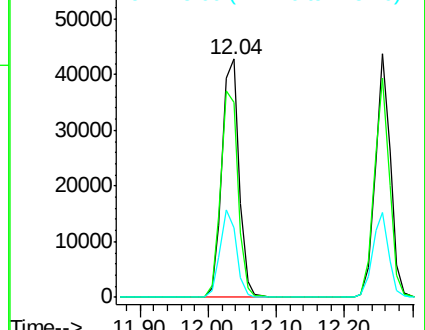
115 29.4 25.5 38.3



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: 14.24 min Scan# 1408

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

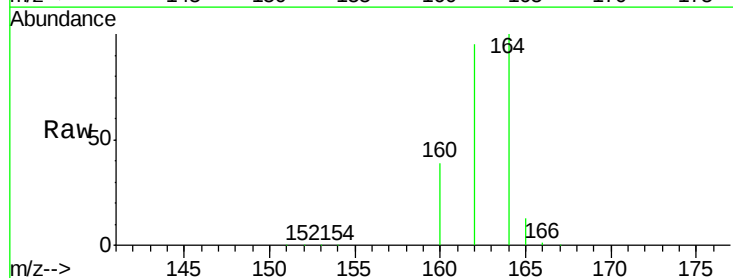
Tgt Ion:164 Resp: 53014

Ion Ratio Lower Upper

164 100

162 95.3 78.5 117.7

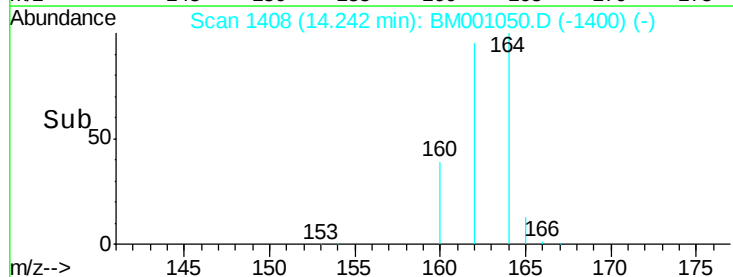
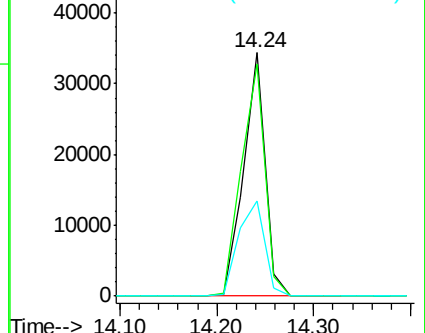
160 39.1 32.9 49.3

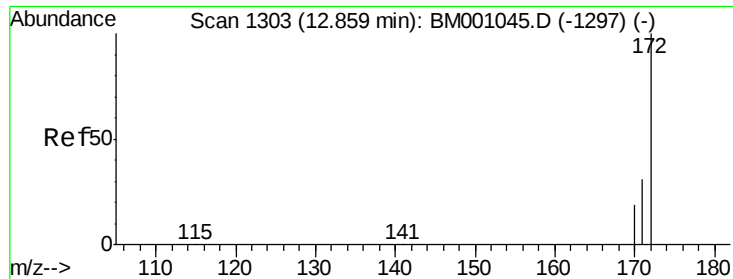


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

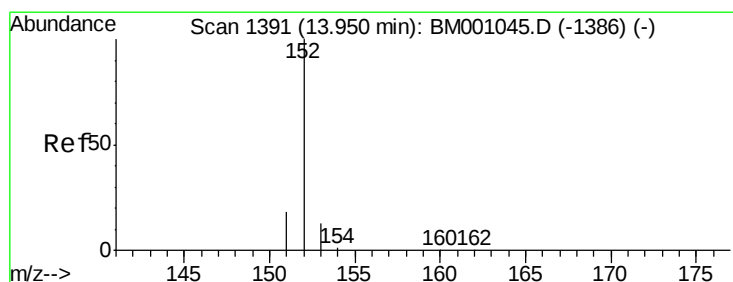
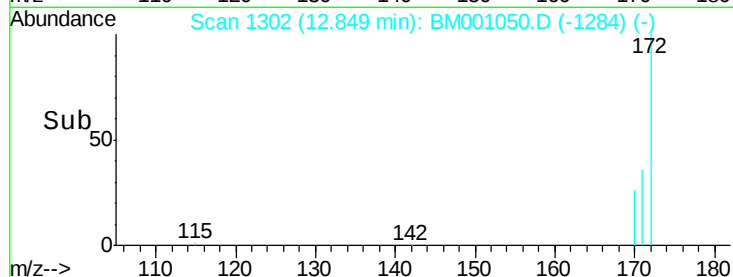
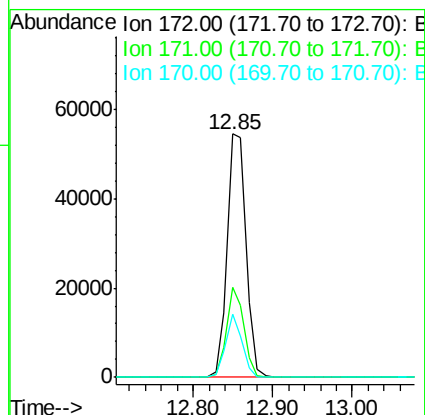
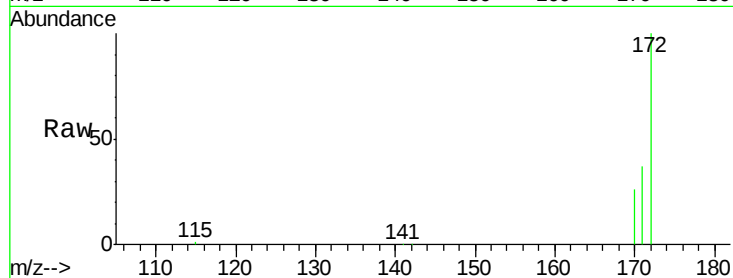




#9
2-Fluorobiphenyl
Concen: 5.09 ng
RT: 12.85 min Scan# 1302
Delta R.T. -0.01 min
Lab File: BM001050.D
Acq: 18 Apr 2015 08:02

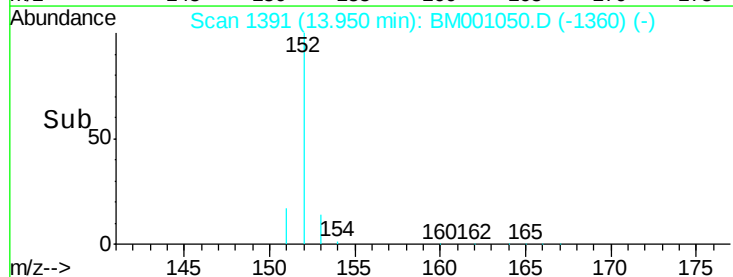
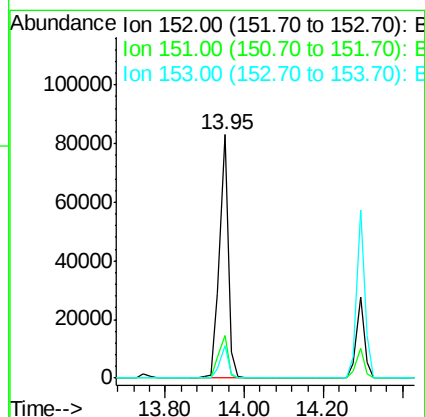
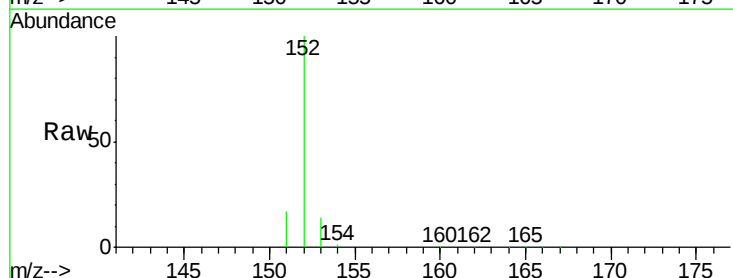
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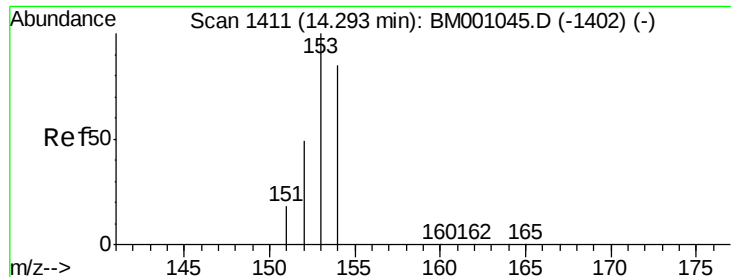
Tgt Ion:172 Resp: 89408
Ion Ratio Lower Upper
172 100
171 36.8 25.6 38.4
170 25.8 15.8 23.6#



#10
Acenaphthylene
Concen: 4.20 ng
RT: 13.95 min Scan# 1391
Delta R.T. 0.00 min
Lab File: BM001050.D
Acq: 18 Apr 2015 08:02

Tgt Ion:152 Resp: 126914
Ion Ratio Lower Upper
152 100
151 18.7 14.7 22.1
153 13.0 10.2 15.2





#11

Acenaphthene

Concen: 4.52 ng

RT: 14.29 min Scan# 1411

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

Instrument :

BNA_M

ClientSampleId :

PB82779BS

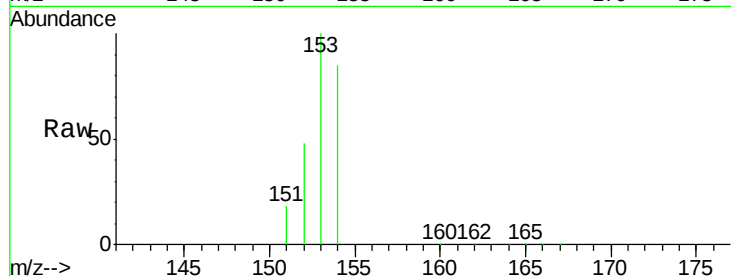
Tgt Ion:154 Resp: 75305

Ion Ratio Lower Upper

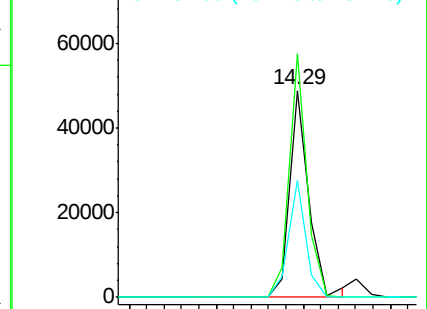
154 100

153 108.7 88.1 132.1

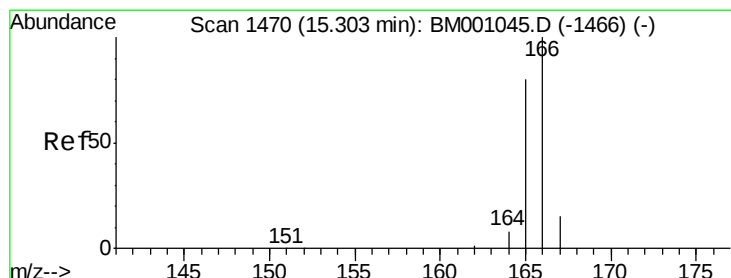
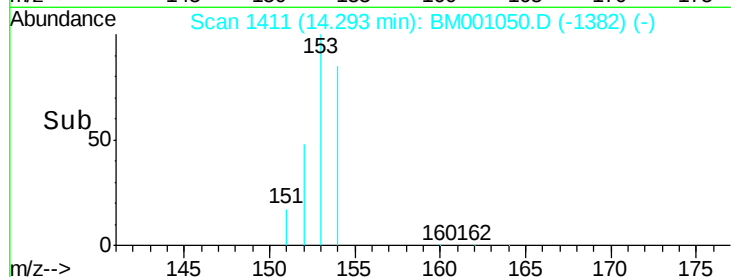
152 52.1 42.3 63.5



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



Time--> 14.10 14.20 14.30 14.40



#12

Fluorene

Concen: 4.82 ng

RT: 15.29 min Scan# 1469

Delta R.T. -0.02 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

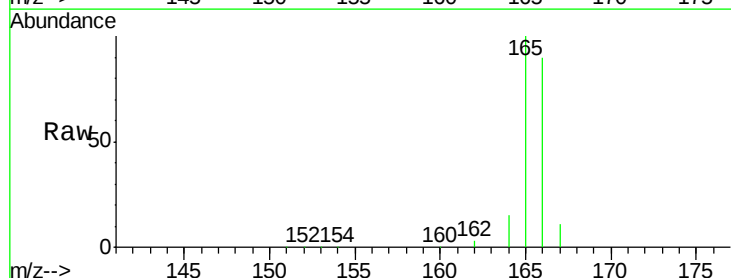
Tgt Ion:166 Resp: 93174

Ion Ratio Lower Upper

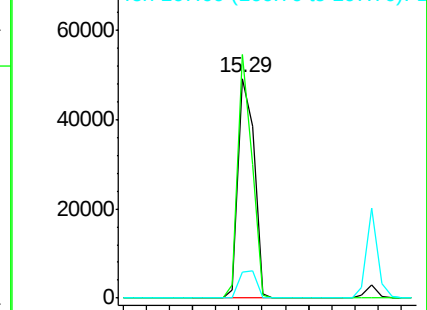
166 100

165 97.0 77.6 116.4

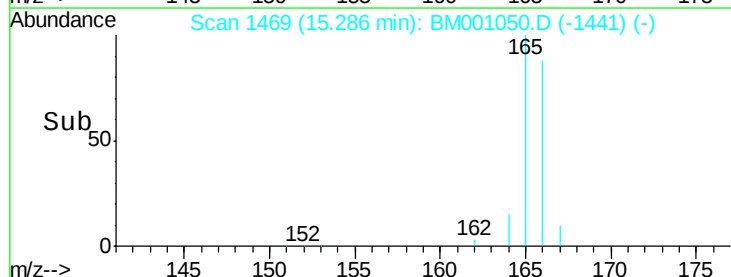
167 13.4 10.6 16.0

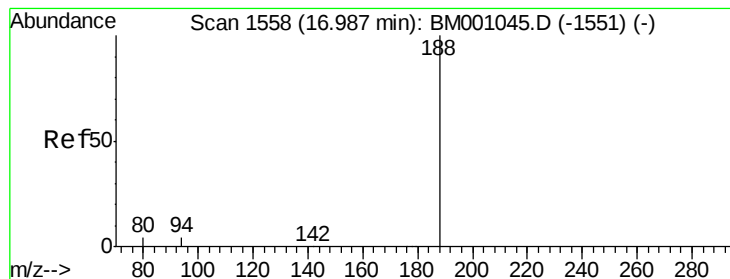


Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



Time--> 15.20 15.40





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.99 min Scan# 1558

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

Instrument :

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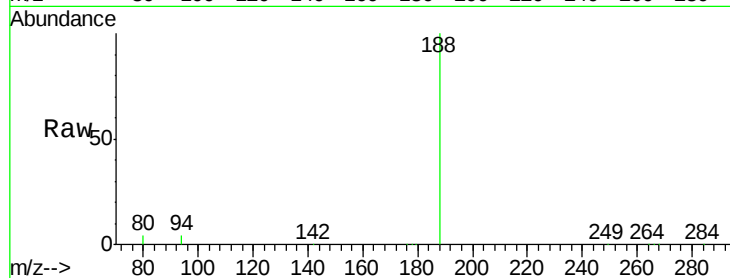
Tgt Ion:188 Resp: 112354

Ion Ratio Lower Upper

188 100

94 4.2 3.6 5.4

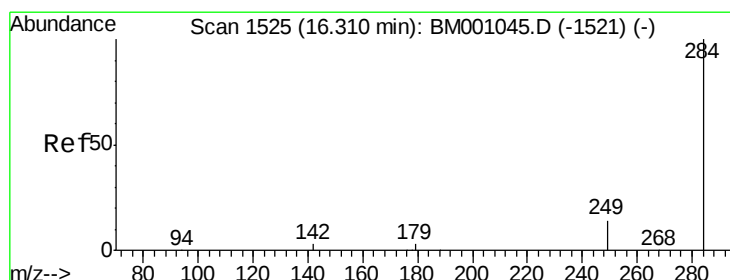
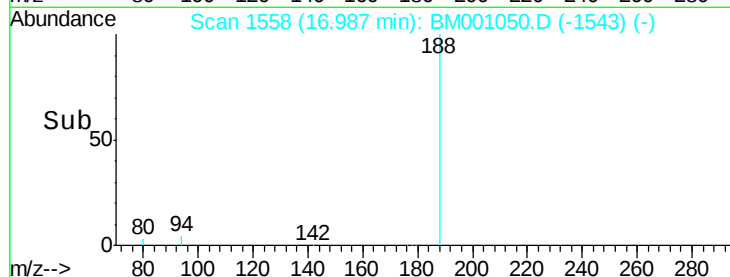
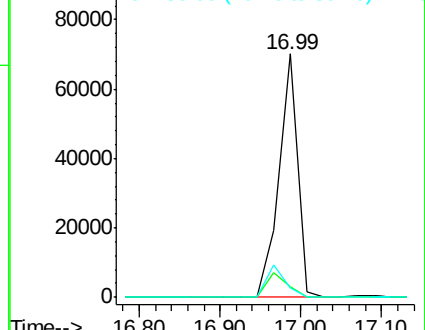
80 3.6 3.0 4.6



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



#14

Hexachlorobenzene

Concen: 5.11 ng

RT: 16.31 min Scan# 1525

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

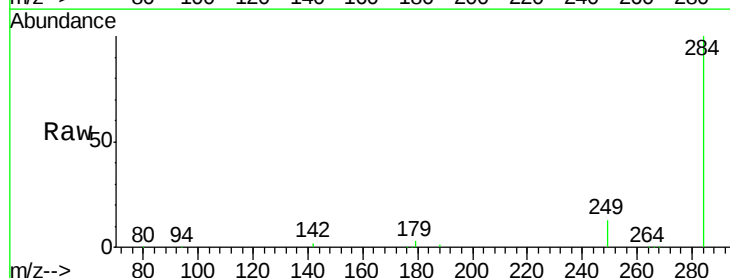
Tgt Ion:284 Resp: 30623

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

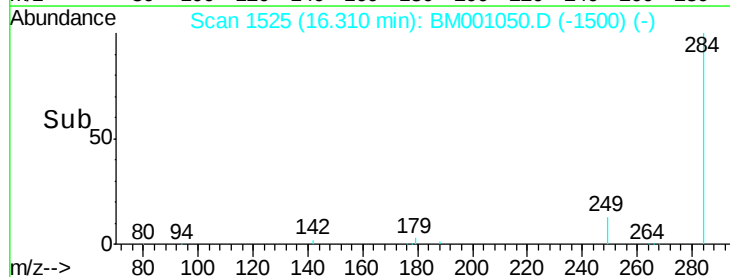
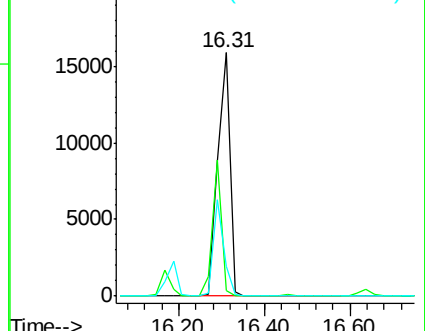
249 0.0 0.0 0.0

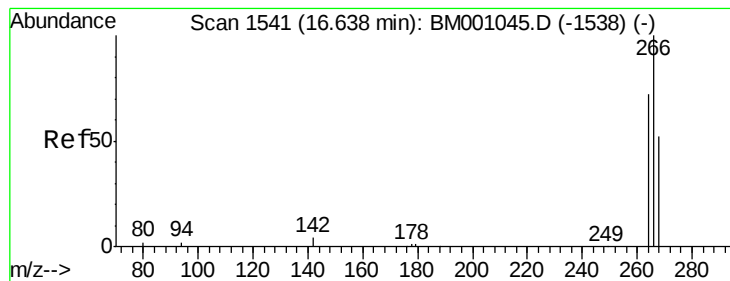


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: Below Cal

RT: 16.64 min Scan# 1541

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

Instrument :

BNA_M

ClientSampleId :

PB82779BS

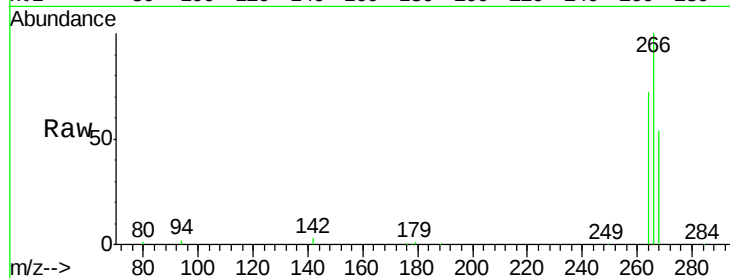
Tgt Ion:266 Resp: 25731

Ion Ratio Lower Upper

266 100

268 53.6 46.3 69.5

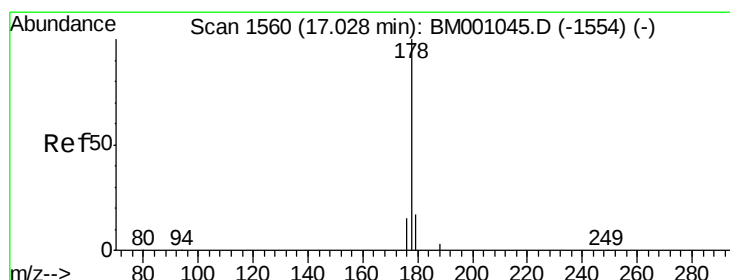
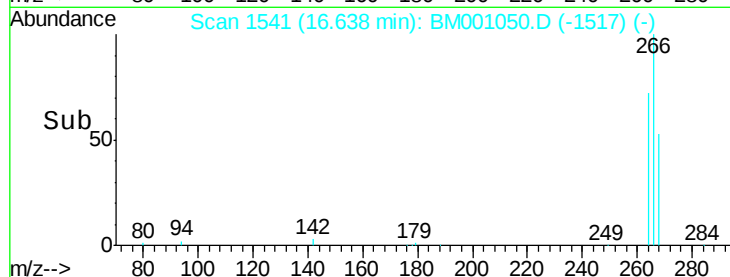
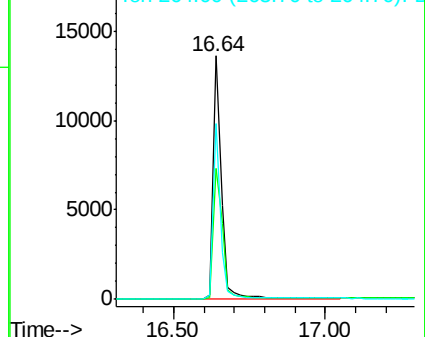
264 72.4 59.8 89.6



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: 4.97 ng

RT: 17.03 min Scan# 1560

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

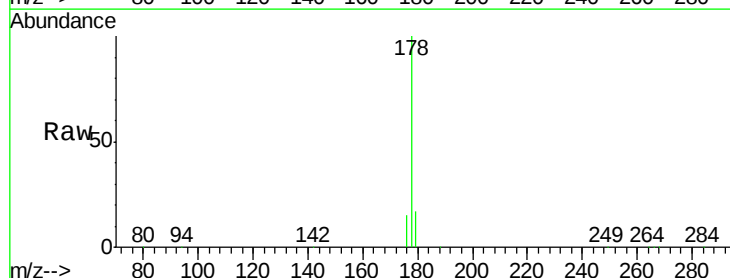
Tgt Ion:178 Resp: 142852

Ion Ratio Lower Upper

178 100

176 18.4 14.6 22.0

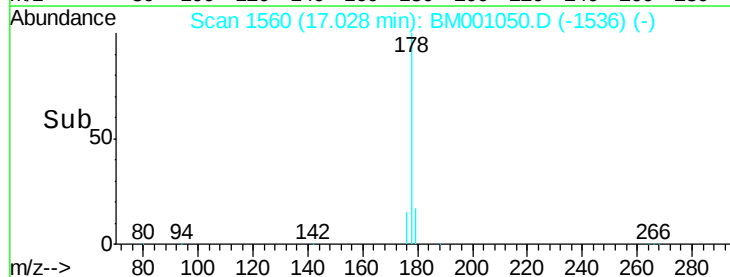
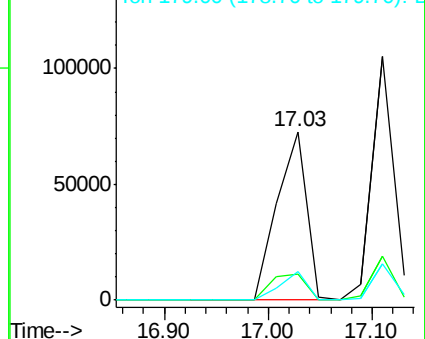
179 15.4 12.6 19.0

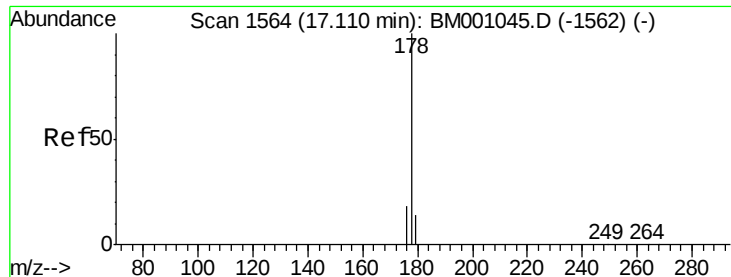


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 5.88 ng

RT: 17.11 min Scan# 1564

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

Instrument :

BNA_M

ClientSampleId :

PB82779BS

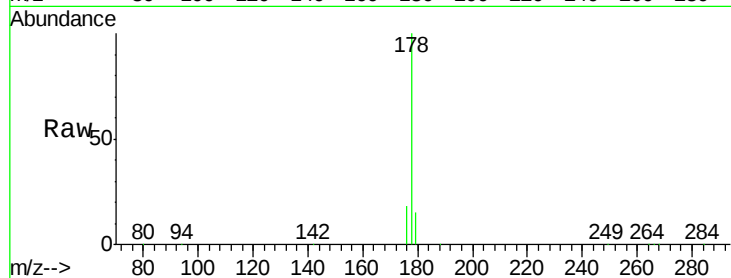
Tgt Ion:178 Resp: 154136

Ion Ratio Lower Upper

178 100

176 17.9 14.3 21.5

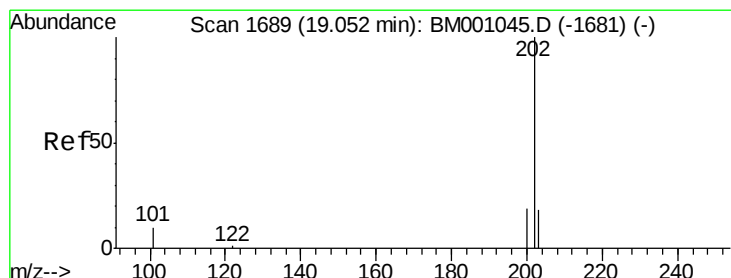
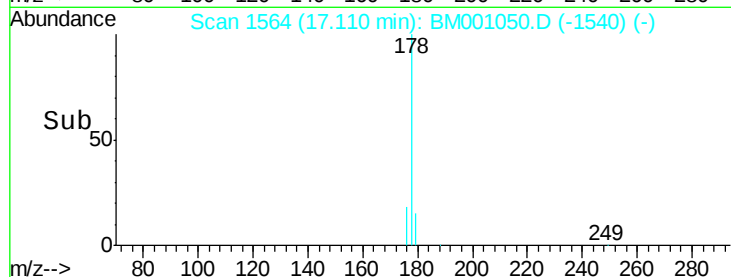
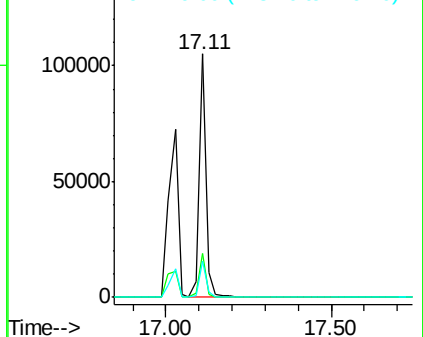
179 15.3 11.8 17.8



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: 5.53 ng

RT: 19.05 min Scan# 1689

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

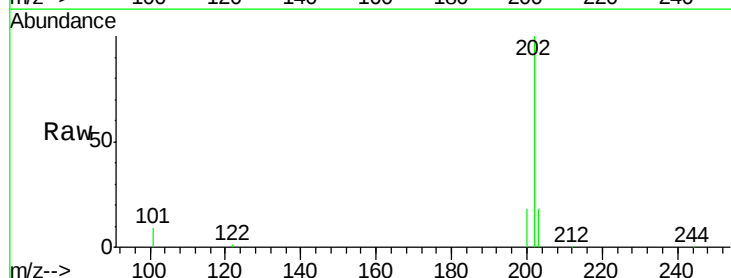
Tgt Ion:202 Resp: 164074

Ion Ratio Lower Upper

202 100

101 12.9 10.1 15.1

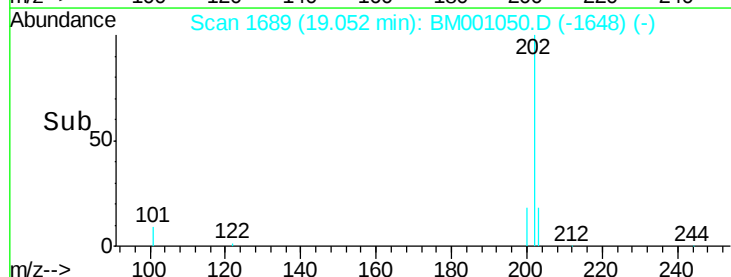
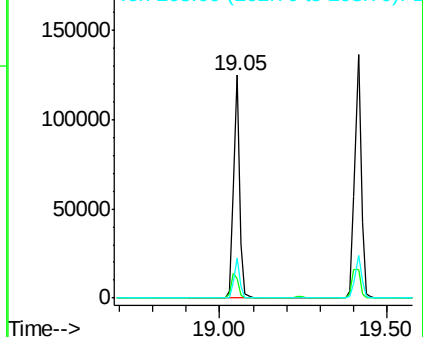
203 17.4 13.8 20.8

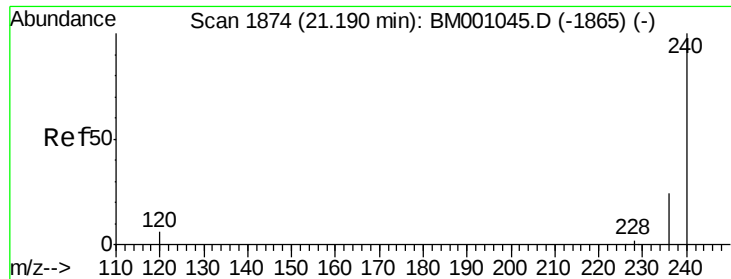


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.19 min Scan# 1874

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

Instrument :

BNA_M

ClientSampleId :

PB82779BS

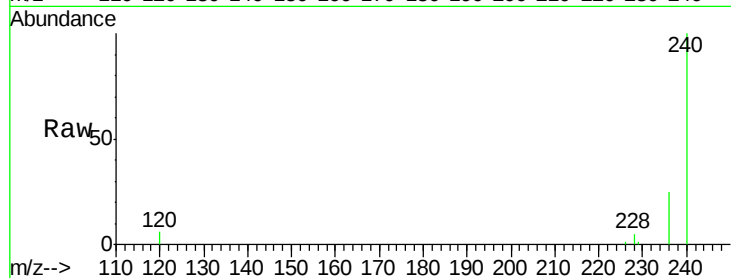
Tgt Ion:240 Resp: 100307

Ion Ratio Lower Upper

240 100

120 6.5 4.6 6.8

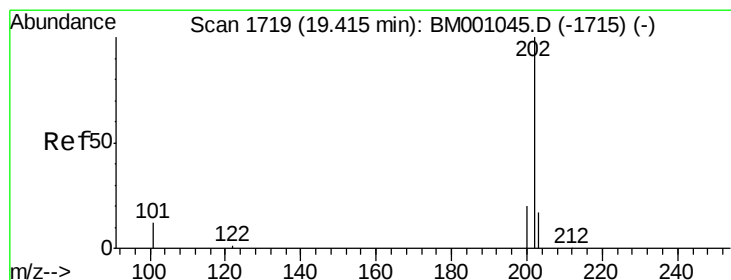
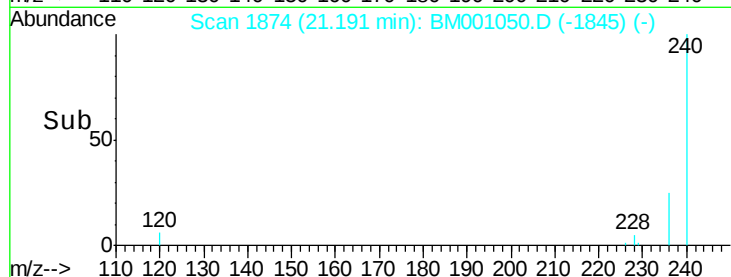
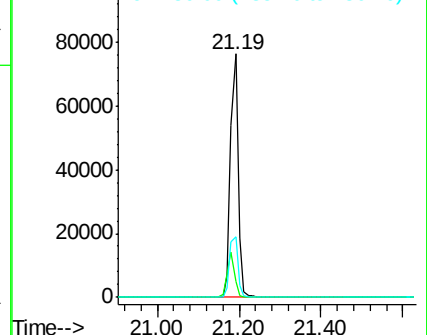
236 24.7 19.1 28.7



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: 5.70 ng

RT: 19.42 min Scan# 1719

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

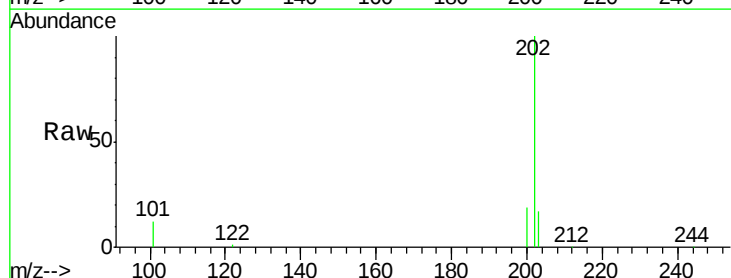
Tgt Ion:202 Resp: 176763

Ion Ratio Lower Upper

202 100

200 20.1 16.3 24.5

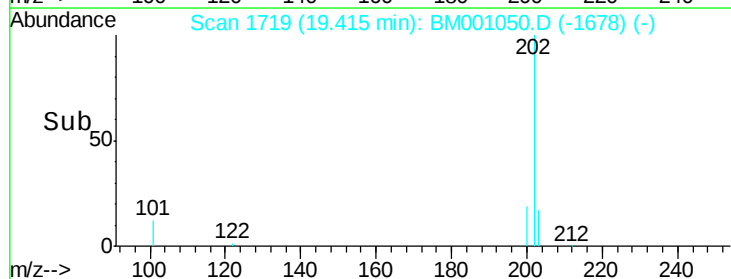
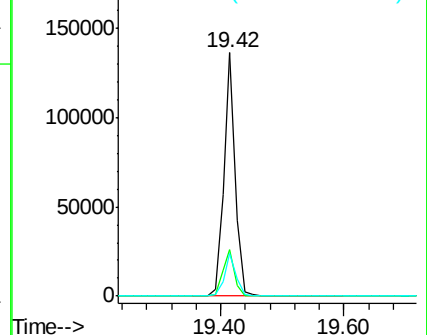
203 17.8 13.8 20.6

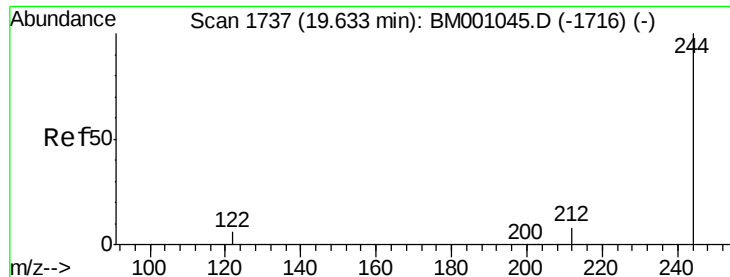


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 6.00 ng

RT: 19.63 min Scan# 1737

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

Instrument :

BNA_M

ClientSampleId :

PB82779BS

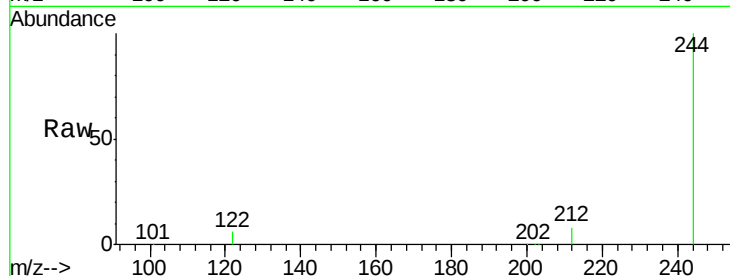
Tgt Ion:244 Resp: 71395

Ion Ratio Lower Upper

244 100

212 8.1 7.1 10.7

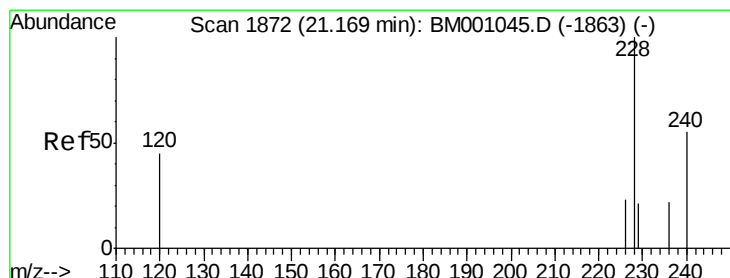
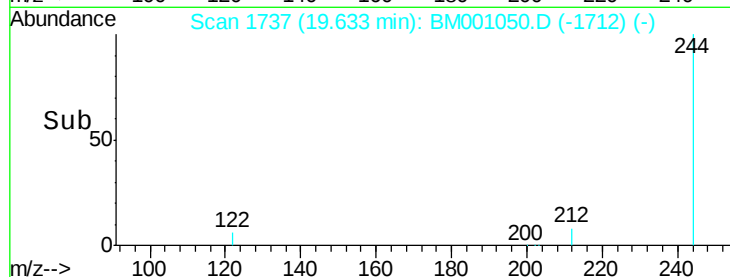
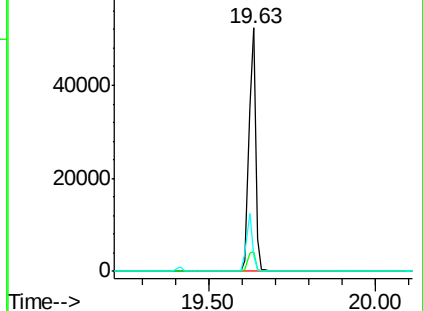
122 6.4 5.9 8.9



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: 5.69 ng

RT: 21.17 min Scan# 1872

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

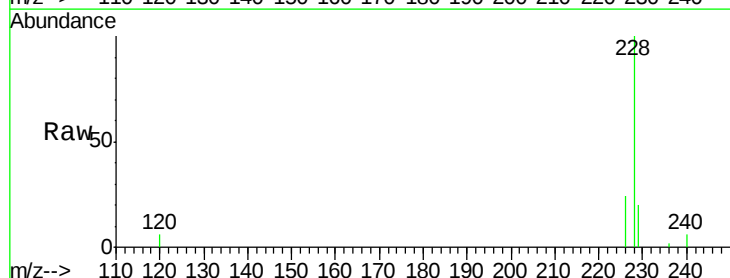
Tgt Ion:228 Resp: 157123

Ion Ratio Lower Upper

228 100

226 24.0 19.0 28.6

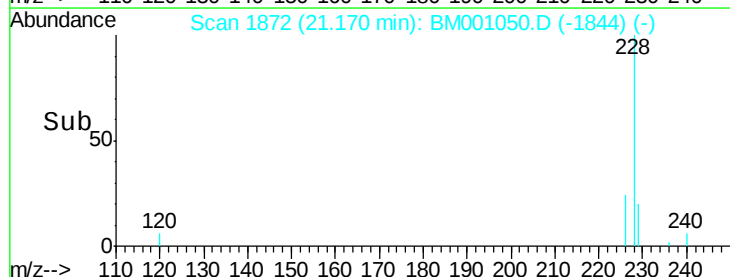
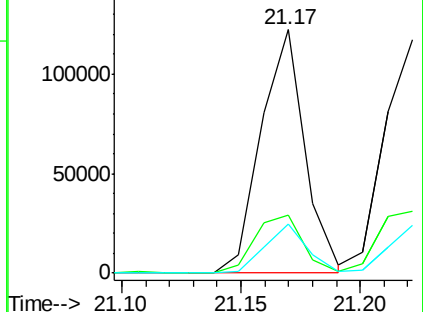
229 20.2 16.8 25.2

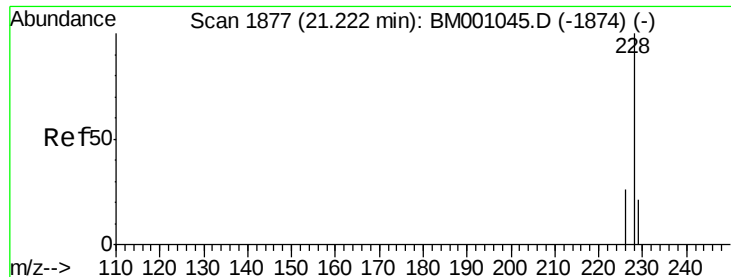


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 5.77 ng

RT: 21.22 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

Instrument :

BNA_M

ClientSampleId :

PB82779BS

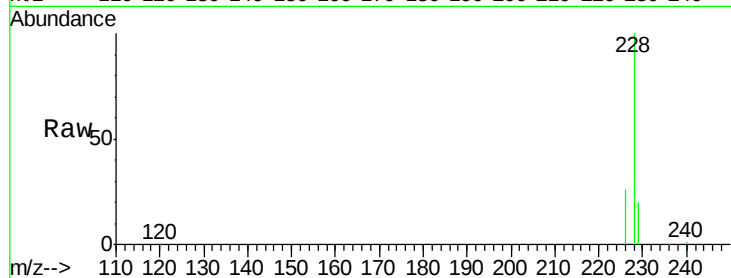
Tgt Ion:228 Resp: 154765

Ion Ratio Lower Upper

228 100

226 26.2 20.6 31.0

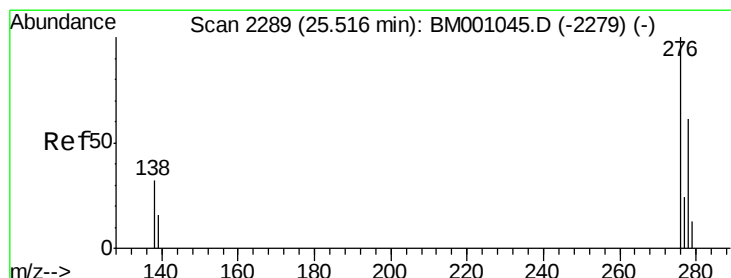
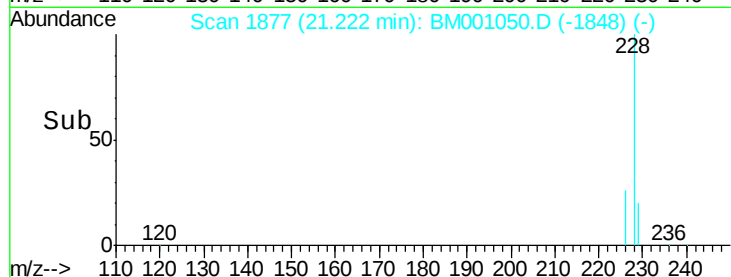
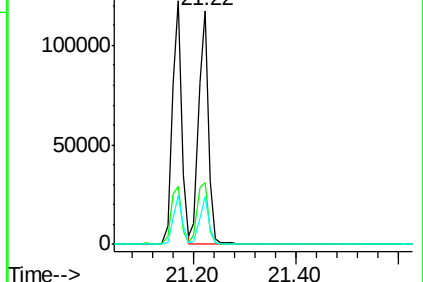
229 20.2 17.2 25.8



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: 5.28 ng

RT: 25.52 min Scan# 2289

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

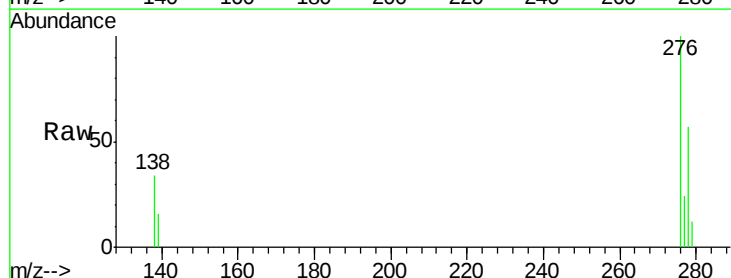
Tgt Ion:276 Resp: 159144

Ion Ratio Lower Upper

276 100

138 33.6 26.3 39.5

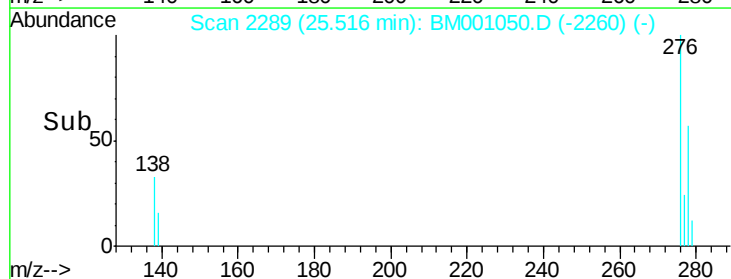
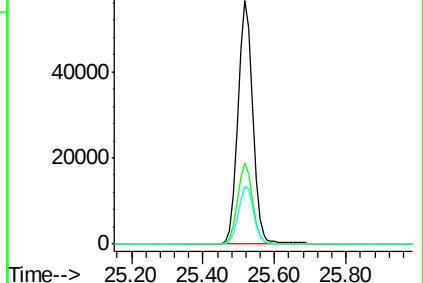
277 24.6 19.5 29.3

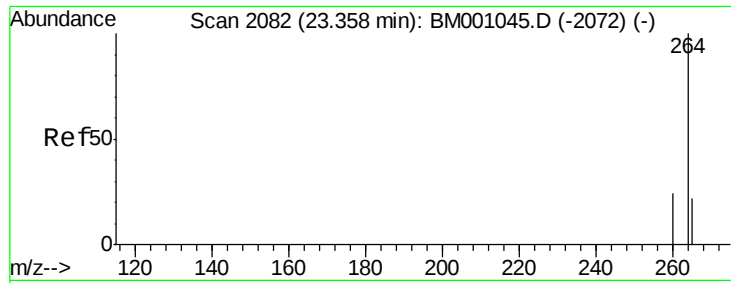


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

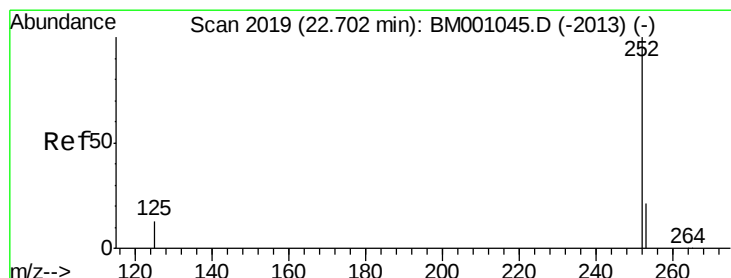
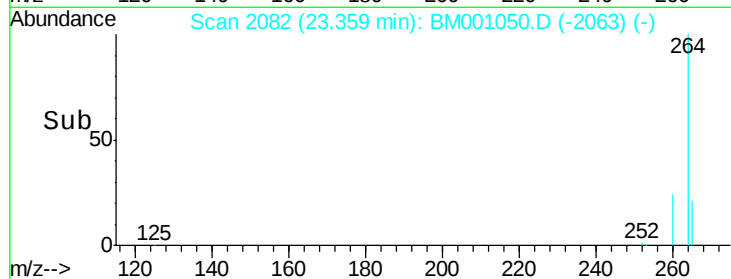
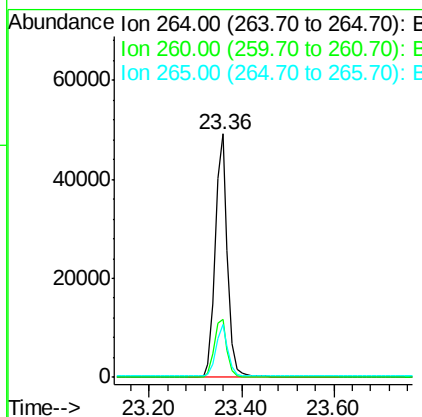
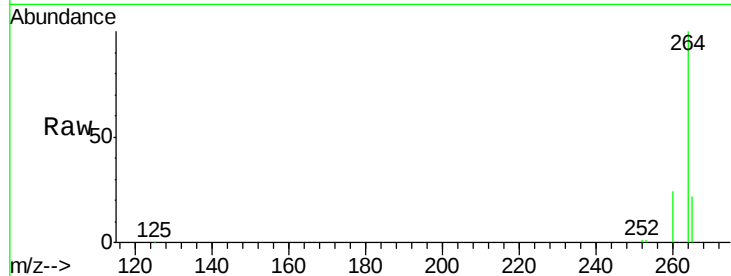




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.36 min Scan# 2082
 Delta R.T. 0.00 min
 Lab File: BM001050.D
 Acq: 18 Apr 2015 08:02

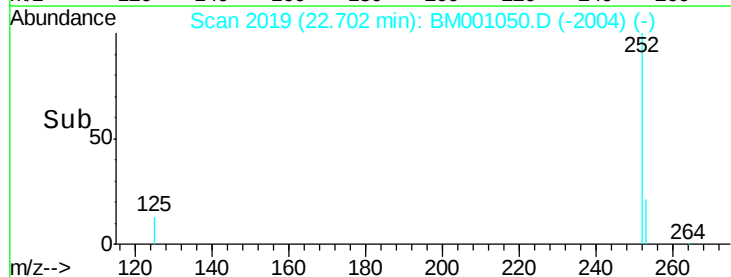
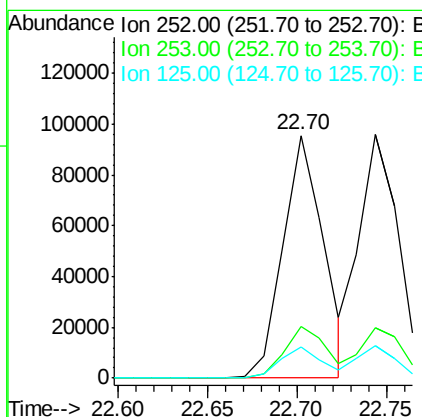
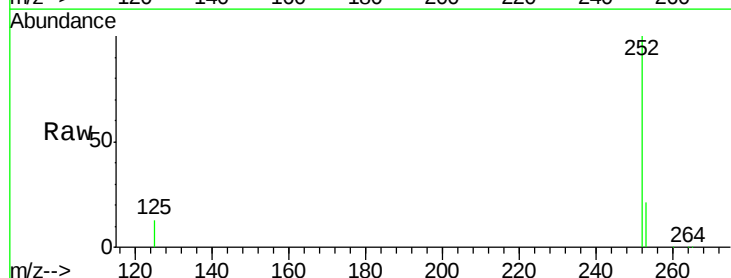
Instrument :
 BNA_M
 ClientSampleId :
 PB82779BS

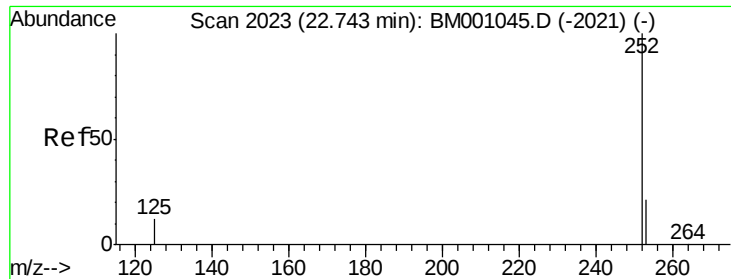
Tgt Ion:264 Resp: 90257
 Ion Ratio Lower Upper
 264 100
 260 24.1 19.0 28.6
 265 21.9 17.9 26.9



#26
 Benzo(b)fluoranthene
 Concen: 5.38 ng
 RT: 22.70 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: BM001050.D
 Acq: 18 Apr 2015 08:02

Tgt Ion:252 Resp: 151099
 Ion Ratio Lower Upper
 252 100
 253 21.1 18.2 27.2
 125 13.0 10.9 16.3





#27

Benzo(k)fluoranthene

Concen: 5.66 ng

RT: 22.74 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

Instrument :

BNA_M

ClientSampleId :

PB82779BS

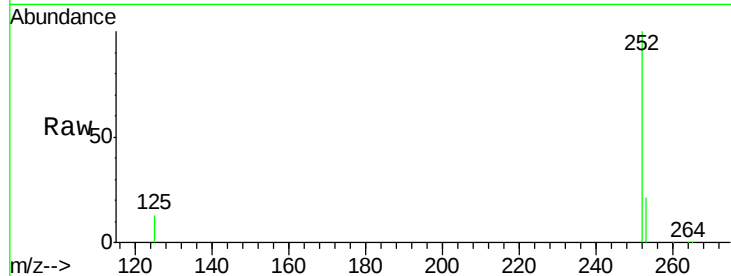
Tgt Ion:252 Resp: 148631

Ion Ratio Lower Upper

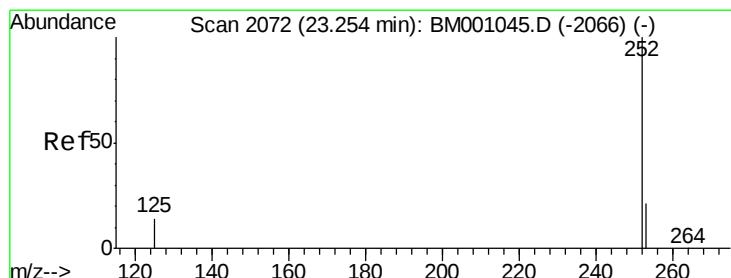
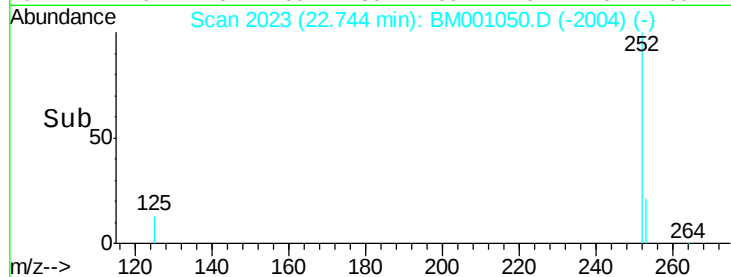
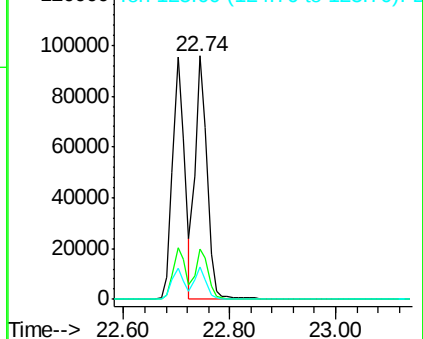
252 100

253 20.9 18.3 27.5

125 13.2 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: 5.75 ng

RT: 23.25 min Scan# 2072

Delta R.T. 0.00 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

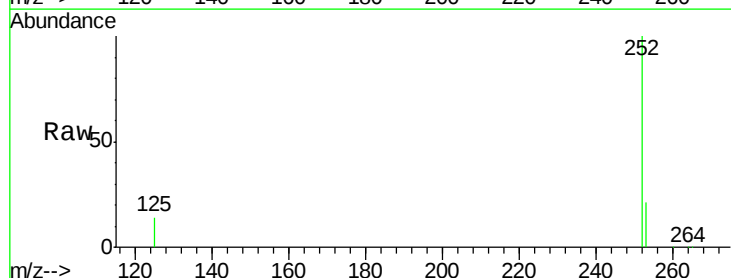
Tgt Ion:252 Resp: 139059

Ion Ratio Lower Upper

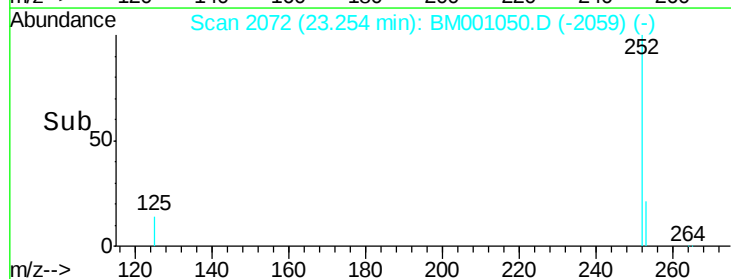
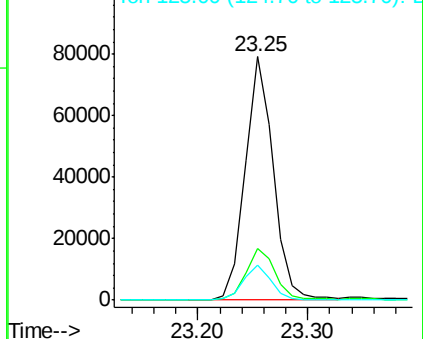
252 100

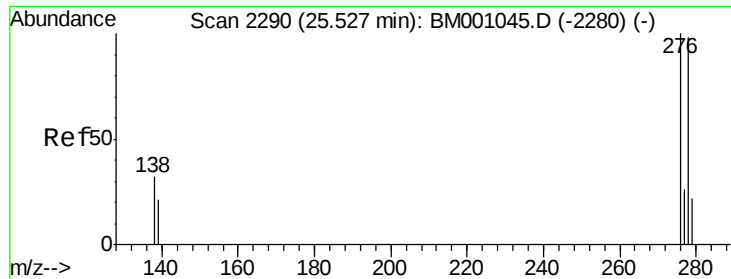
253 21.2 18.6 27.8

125 14.4 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: 5.43 ng

RT: 25.54 min Scan# 2291

Delta R.T. 0.01 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

Instrument :

BNA_M

ClientSampleId :

PB82779BS

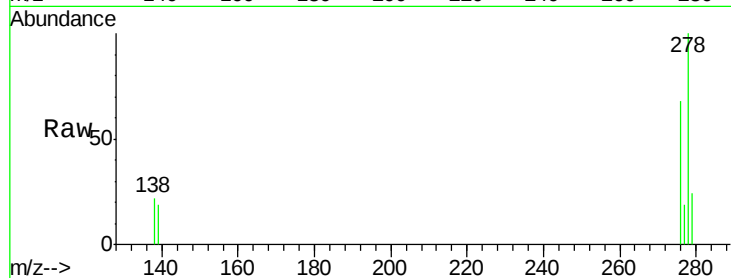
Tgt Ion: 278 Resp: 129678

Ion Ratio Lower Upper

278 100

139 18.8 18.2 27.2

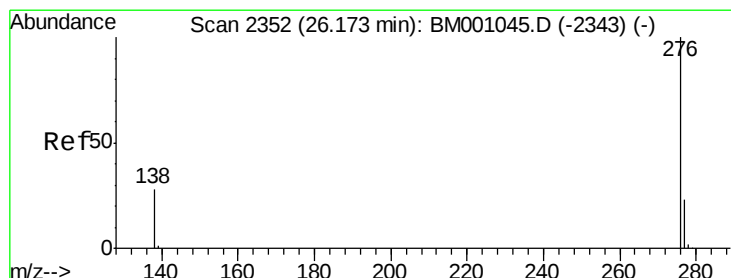
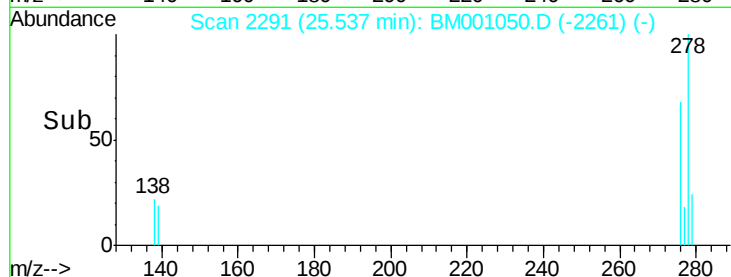
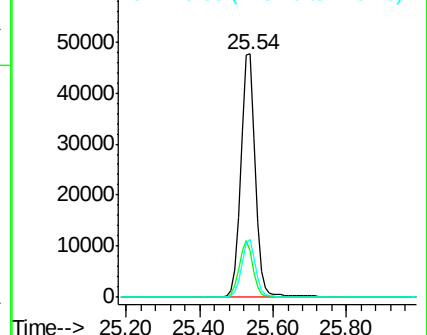
279 23.8 19.1 28.7



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: 5.43 ng

RT: 26.18 min Scan# 2353

Delta R.T. 0.01 min

Lab File: BM001050.D

Acq: 18 Apr 2015 08:02

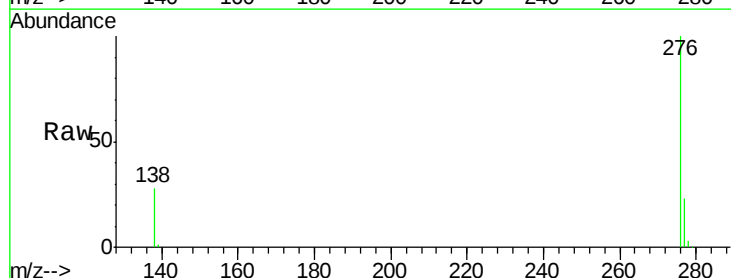
Tgt Ion: 276 Resp: 135323

Ion Ratio Lower Upper

276 100

277 23.4 19.0 28.4

138 27.8 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

