

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM013016\  
 Data File : BM004153.D  
 Acq On : 29 Jan 2016 19:13  
 Operator : SJ/IZ  
 Sample : H1281-08  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 YT-MW10

Quant Time: Jan 29 22:15:25 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BM012216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 22 14:46:41 2016  
 Response via : Initial Calibration

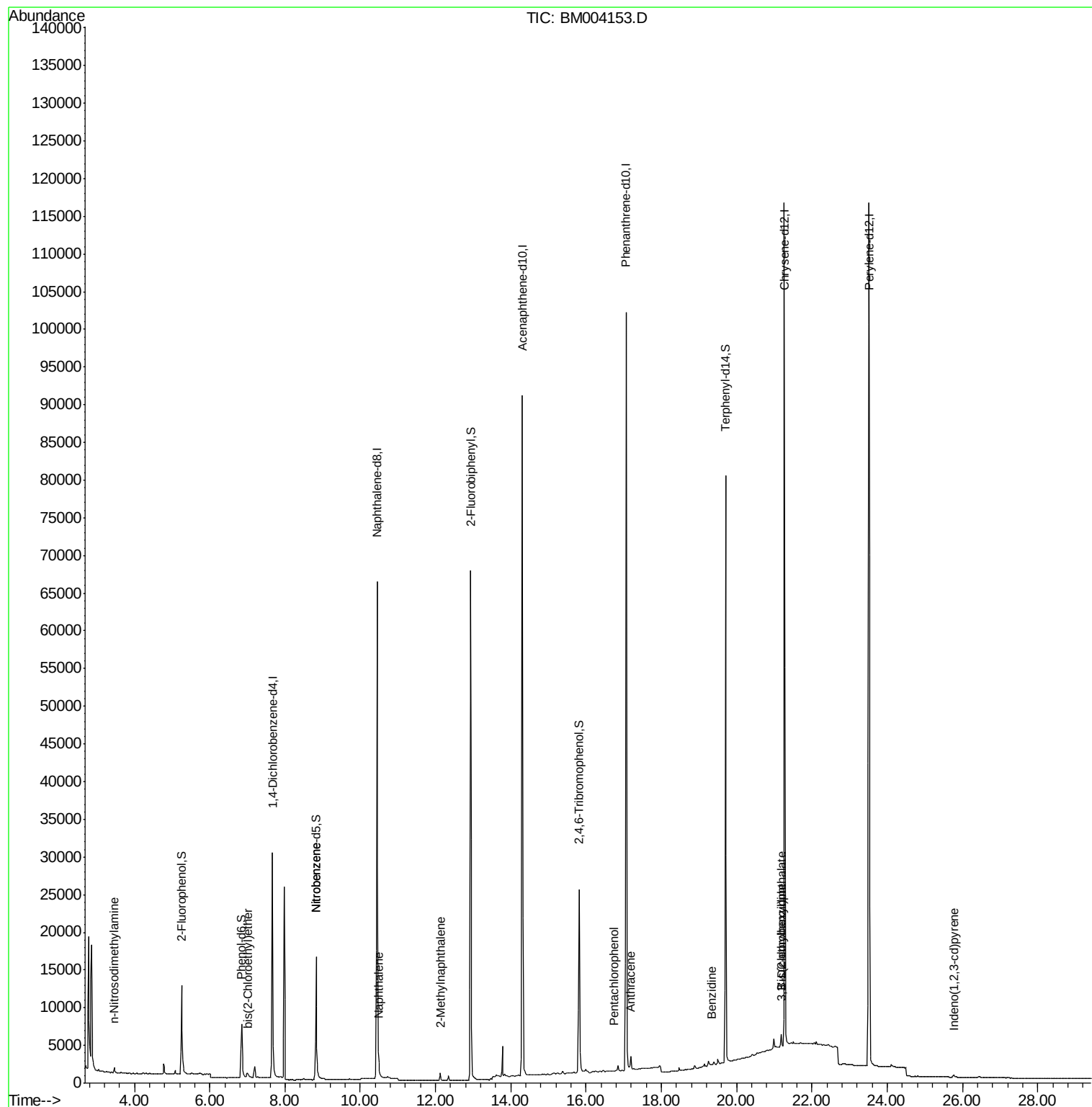
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.67  | 152  | 21279    | 5.00      | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.44 | 136  | 97996    | 5.00      | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.31 | 164  | 55320    | 5.00      | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.06 | 188  | 155805   | 5.00      | ng    | 0.00     |
| 26) Chrysene-d12               | 21.27 | 240  | 140715   | 5.00      | ng    | 0.00     |
| 35) Perylene-d12               | 23.52 | 264  | 152702   | 5.00      | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 4) 2-Fluorophenol              | 5.25  | 112  | 12302    | 2.77      | ng    | -0.02    |
| 5) Phenol-d6                   | 6.85  | 99   | 10622    | 1.98      | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 8.83  | 82   | 17726    | 4.13      | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 15.82 | 330  | 17298    | 7.97      | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 12.93 | 172  | 69331    | 4.09      | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.71 | 244  | 90382    | 5.05      | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 3) n-Nitrosodimethylamine      | 3.46  | 42   | 94       | 0.05      | ng    | # 16     |
| 6) bis(2-Chloroethyl)ether     | 7.00  | 93   | 1463     | 0.29      | ng    | # 27     |
| 9) Nitrobenzene                | 8.83  | 77   | 82       | 0.23      | ng    | # 20     |
| 10) Naphthalene                | 10.49 | 128  | 1617     | 0.07      | ng    | # 85     |
| 12) 2-Methylnaphthalene        | 12.12 | 142  | 888      | 0.06      | ng    | # 86     |
| 22) Pentachlorophenol          | 16.73 | 266  | 78       | 0.27      | ng    | # 73     |
| 23) Phenanthrene               | 17.09 | 178  | 768      | Below Cal |       | # 66     |
| 24) Anthracene                 | 17.19 | 178  | 2259     | 0.06      | ng    | # 99     |
| 27) Benzidine                  | 19.33 | 184  | 175      | 0.13      | ng    | # 1      |
| 30) Benzo(a)anthracene         | 21.27 | 228  | 1034     | Below Cal |       | # 26     |
| 31) 3,3'-Dichlorobenzidine     | 21.21 | 252  | 106      | 0.03      | ng    | # 44     |
| 32) Chrysene                   | 21.27 | 228  | 1034     | Below Cal |       | # 40     |
| 33) Bis(2-ethylhexyl)phthalate | 21.19 | 149  | 2113     | 0.19      | ng    | # 98     |
| 34) Indeno(1,2,3-cd)pyrene     | 25.77 | 276  | 295      | 0.03      | ng    | # 78     |

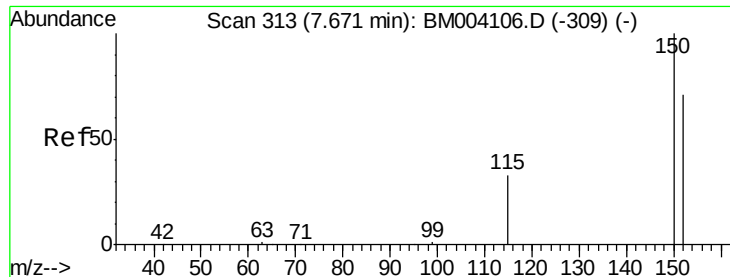
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.67 min Scan# 313

Delta R.T. -0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

Instrument :

BNA\_M

ClientSampleId :

YT-MW10

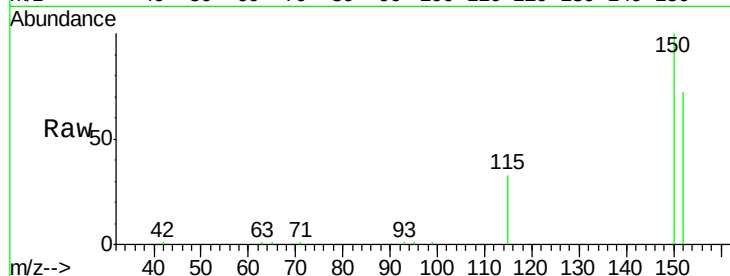
Tgt Ion:152 Resp: 21279

Ion Ratio Lower Upper

152 100

150 139.6 122.9 184.3

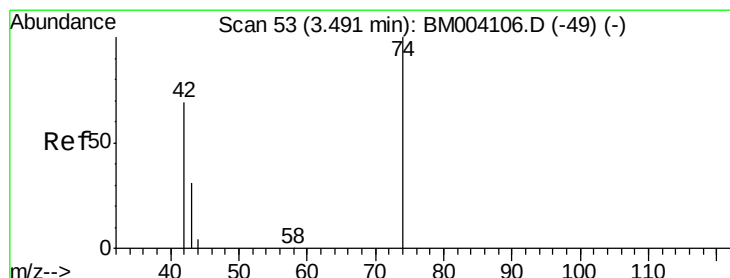
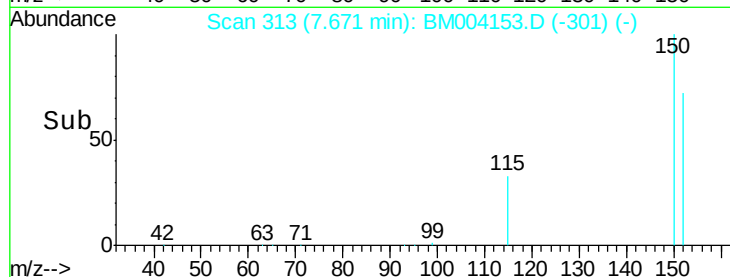
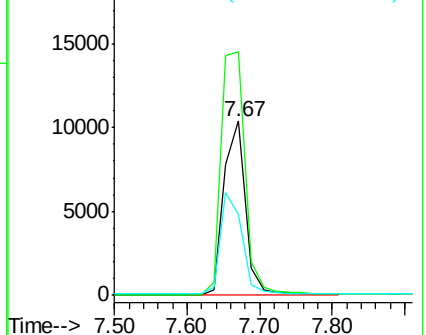
115 46.4 44.4 66.6



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



#3

n-Nitrosodimethylamine

Concen: 0.05 ng

RT: 3.46 min Scan# 51

Delta R.T. -0.03 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

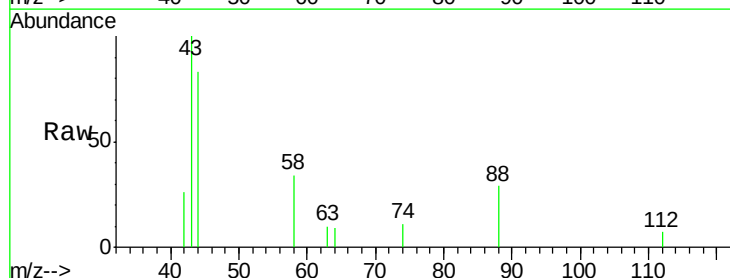
Tgt Ion: 42 Resp: 94

Ion Ratio Lower Upper

42 100

74 22.3 95.0 142.4#

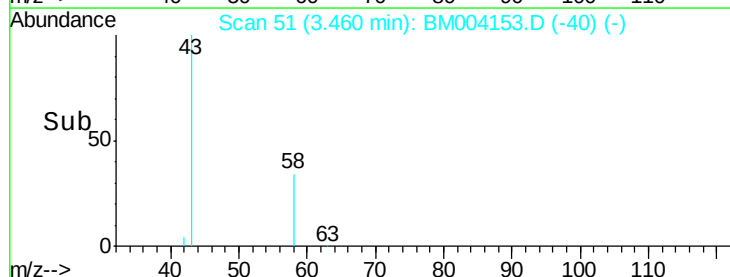
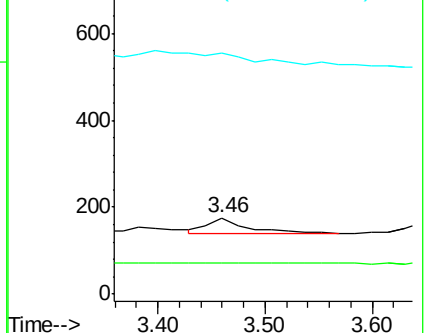
44 0.0 5.1 7.7#

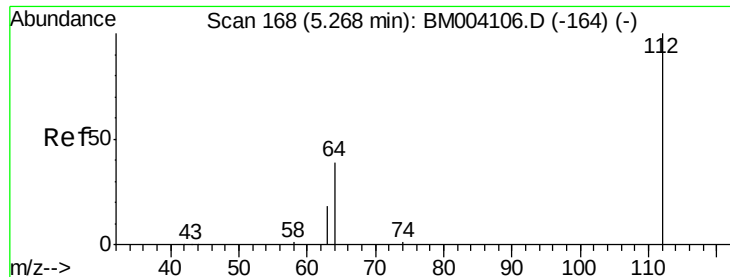


Abundance Ion 42.00 (41.70 to 42.70): BM0

Ion 74.00 (73.70 to 74.70): BM0

Ion 44.00 (43.70 to 44.70): BM0





#4

2-Fluorophenol

Concen: 2.77 ng

RT: 5.25 min Scan# 167

Delta R.T. -0.02 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

Instrument :

BNA\_M

ClientSampleId :

YT-MW10

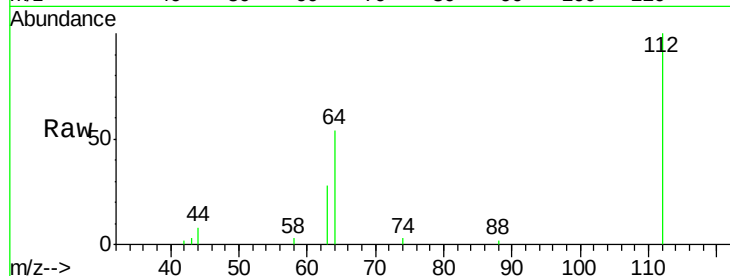
Tgt Ion: 112 Resp: 12302

Ion Ratio Lower Upper

112 100

64 51.9 41.8 62.8

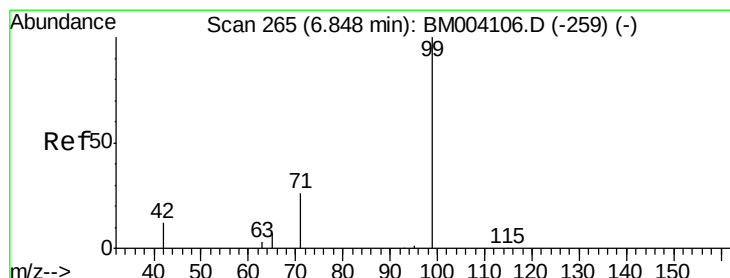
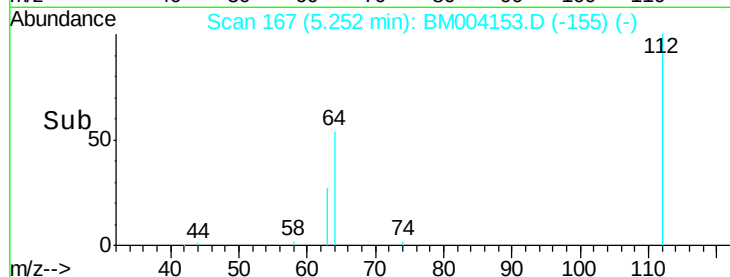
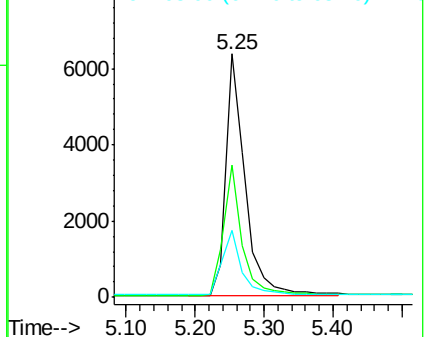
63 27.5 22.1 33.1



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0



#5

Phenol-d6

Concen: 1.98 ng

RT: 6.85 min Scan# 265

Delta R.T. -0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

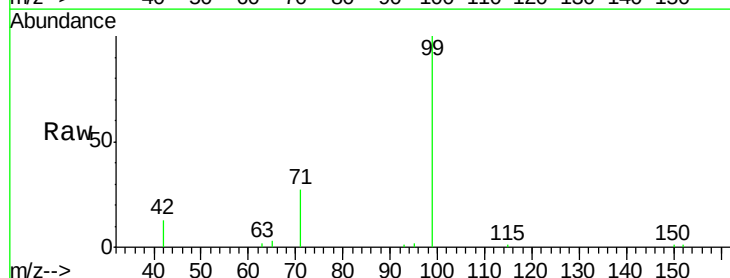
Tgt Ion: 99 Resp: 10622

Ion Ratio Lower Upper

99 100

42 17.6 16.2 24.2

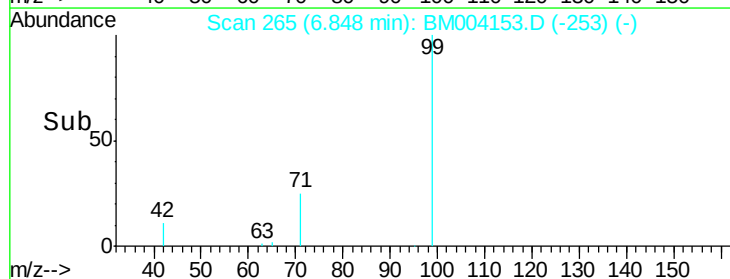
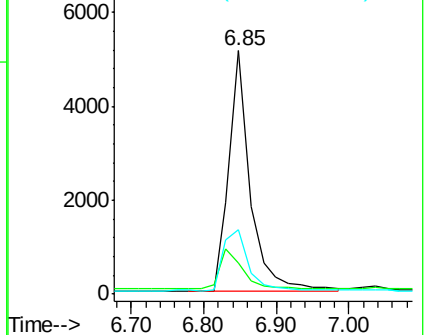
71 31.4 24.4 36.6

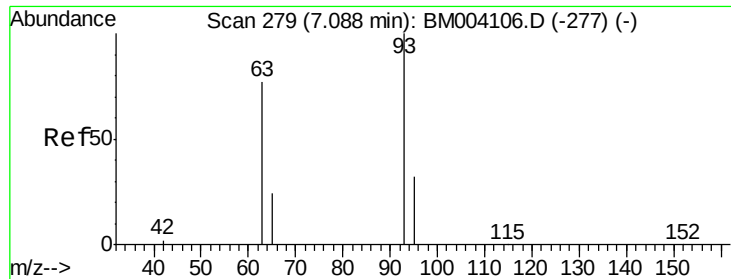


Abundance Ion 99.00 (98.70 to 99.70): BM0

Ion 42.00 (41.70 to 42.70): BM0

Ion 71.00 (70.70 to 71.70): BM0





#6

bis(2-Chloroethyl)ether

Concen: 0.29 ng

RT: 7.00 min Scan# 274

Delta R.T. -0.09 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

Instrument :

BNA\_M

ClientSampleId :

YT-MW10

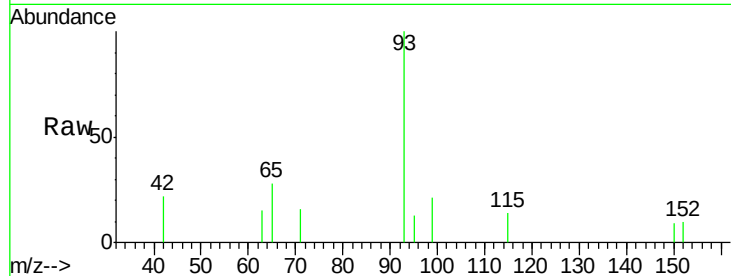
Tgt Ion: 93 Resp: 1463

Ion Ratio Lower Upper

93 100

63 6.1 58.3 87.5#

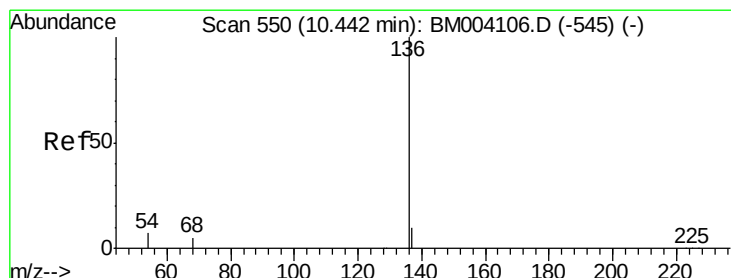
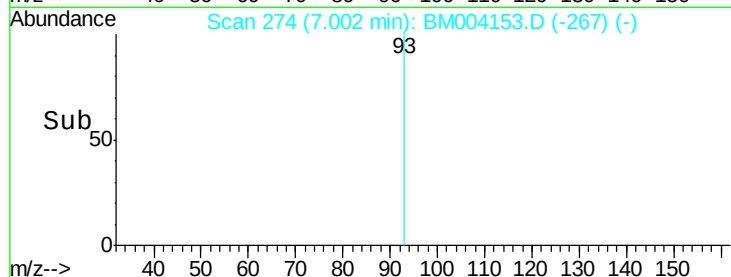
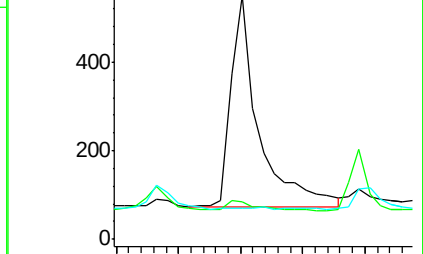
95 0.0 25.8 38.8#



Abundance Ion 93.00 (92.70 to 93.70): BM004106.D (-277) (-)

Ion 63.00 (62.70 to 63.70): BM004106.D (-277) (-)

Ion 95.00 (94.70 to 95.70): BM004106.D (-277) (-)



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.44 min Scan# 550

Delta R.T. -0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

Tgt Ion: 136 Resp: 97996

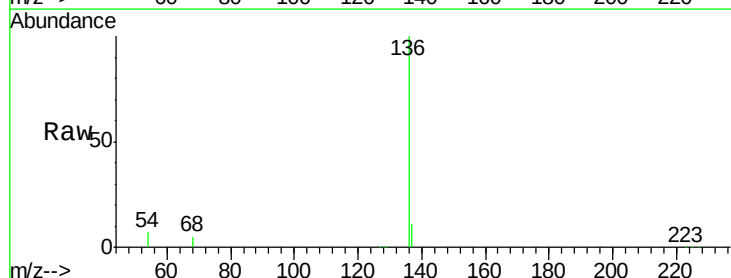
Ion Ratio Lower Upper

136 100

137 10.6 9.2 13.8

54 6.6 2.8 4.2#

68 5.0 2.5 3.7#

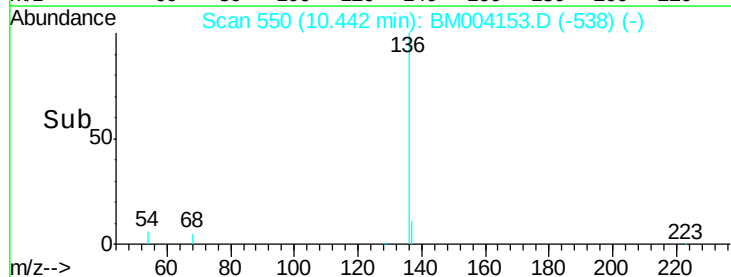
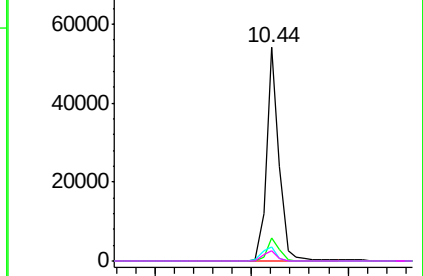


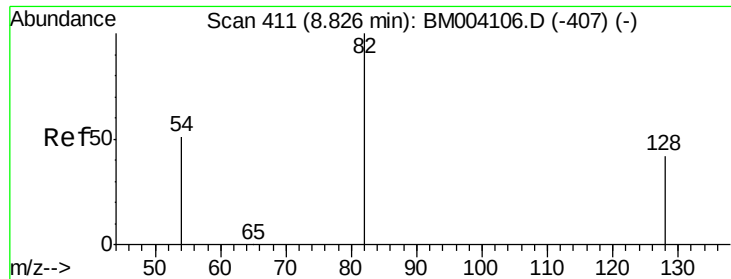
Abundance Ion 136.00 (135.70 to 136.70): BM004106.D (-545) (-)

Ion 137.00 (136.70 to 137.70): BM004106.D (-545) (-)

Ion 54.00 (53.70 to 54.70): BM004106.D (-545) (-)

Ion 68.00 (67.70 to 68.70): BM004106.D (-545) (-)





#8

Nitrobenzene-d5

Concen: 4.13 ng

RT: 8.83 min Scan# 411

Delta R.T. -0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

Instrument :

BNA\_M

ClientSampleId :

YT-MW10

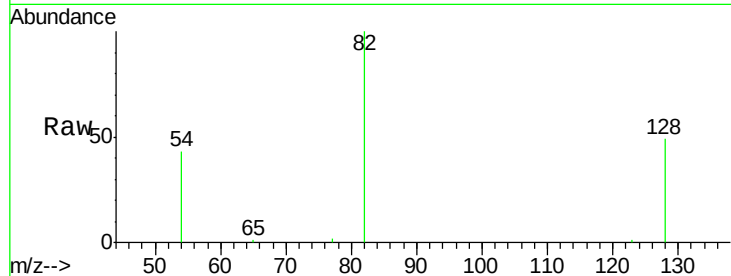
Tgt Ion: 82 Resp: 17726

Ion Ratio Lower Upper

82 100

128 49.1 39.1 58.7

54 43.4 34.8 52.2

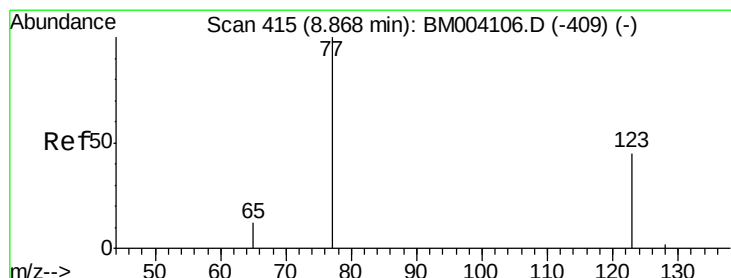
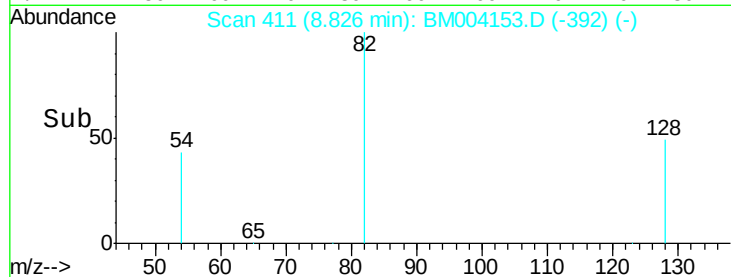


Abundance Ion 82.00 (81.70 to 82.70): BM004153.D (-392) (-)

Ion 128.00 (127.70 to 128.70): BM004153.D (-392) (-)

Ion 54.00 (53.70 to 54.70): BM004153.D (-392) (-)

Time-->



#9

Nitrobenzene

Concen: 0.23 ng

RT: 8.83 min Scan# 411

Delta R.T. -0.04 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

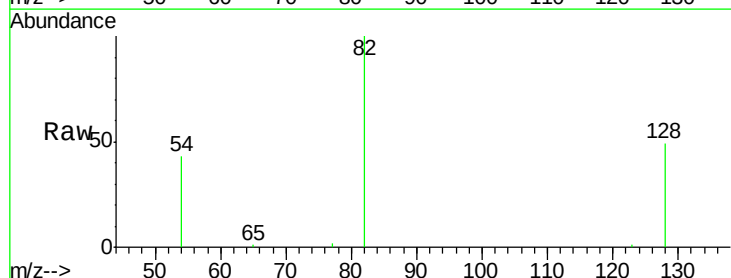
Tgt Ion: 77 Resp: 82

Ion Ratio Lower Upper

77 100

123 0.0 38.6 57.8#

65 57.3 9.9 14.9#

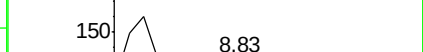
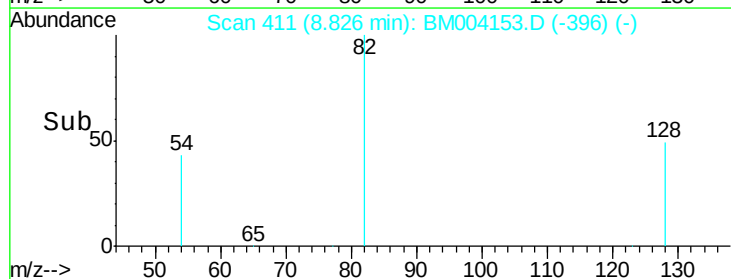


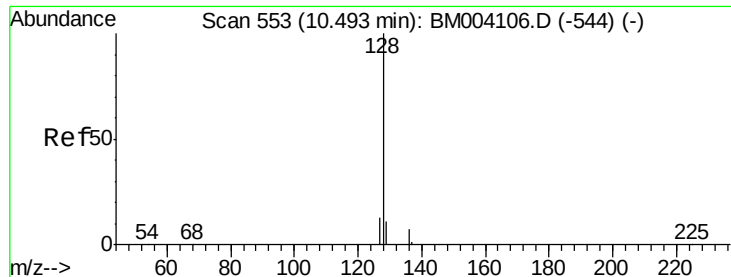
Abundance Ion 77.00 (76.70 to 77.70): BM004153.D (-396) (-)

Ion 123.00 (122.70 to 123.70): BM004153.D (-396) (-)

Ion 65.00 (64.70 to 65.70): BM004153.D (-396) (-)

Time-->

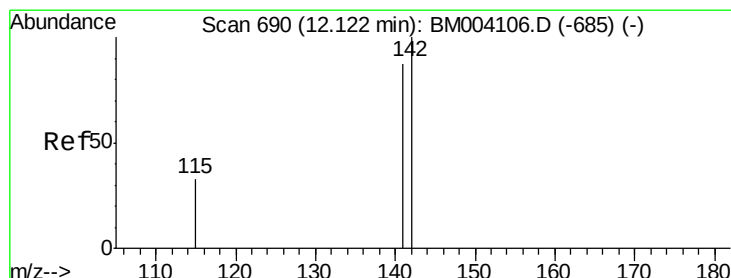
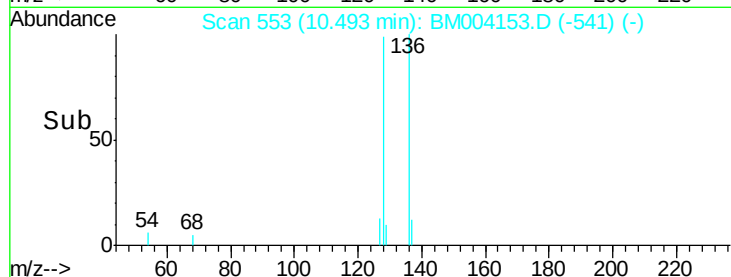
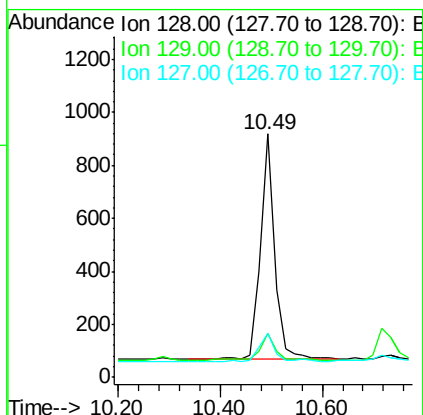
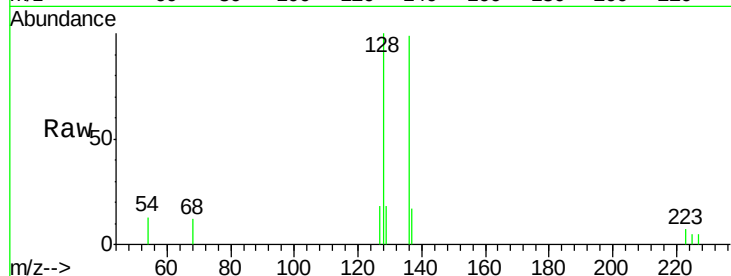




#10  
Naphthalene  
Concen: 0.07 ng  
RT: 10.49 min Scan# 553  
Delta R.T. -0.00 min  
Lab File: BM004153.D  
Acq: 29 Jan 2016 19:13

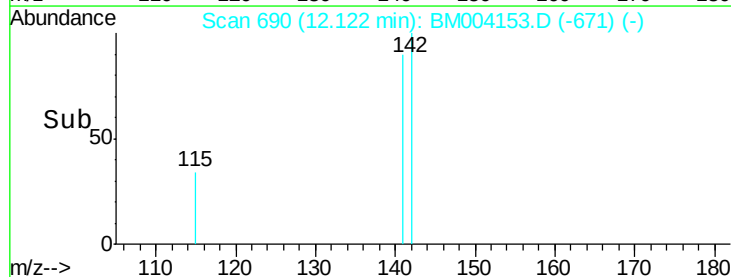
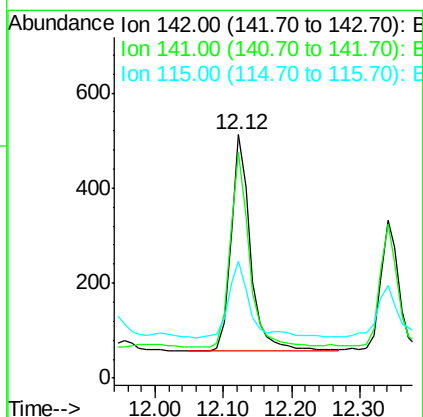
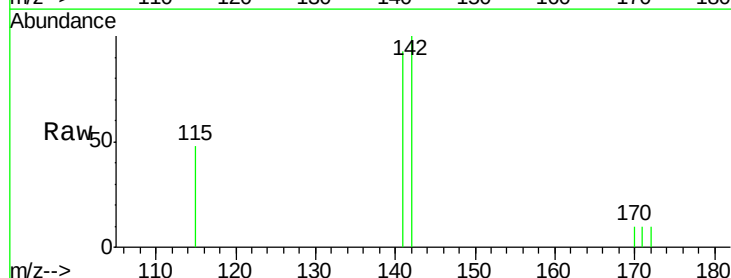
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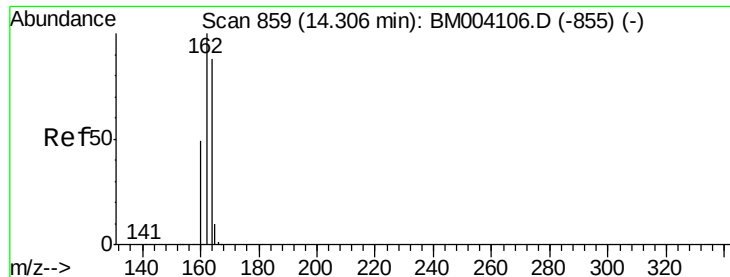
Tgt Ion:128 Resp: 1617  
Ion Ratio Lower Upper  
128 100  
129 17.8 8.5 12.7#  
127 18.2 11.0 16.4#



#12  
2-Methylnaphthalene  
Concen: 0.06 ng  
RT: 12.12 min Scan# 690  
Delta R.T. -0.00 min  
Lab File: BM004153.D  
Acq: 29 Jan 2016 19:13

Tgt Ion:142 Resp: 888  
Ion Ratio Lower Upper  
142 100  
141 92.6 67.8 101.8  
115 48.0 25.3 37.9#





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.31 min Scan# 859

Delta R.T. -0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

Instrument :

BNA\_M

ClientSampleId :

YT-MW10

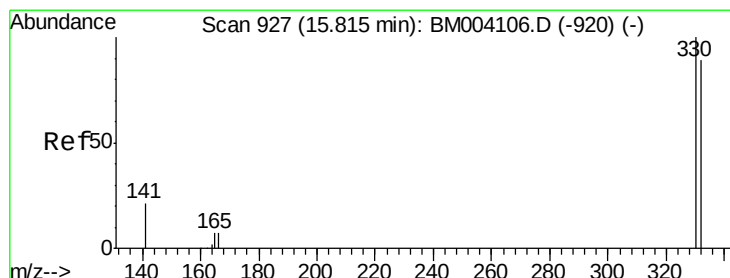
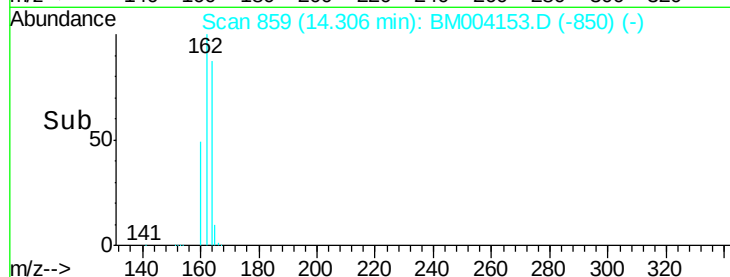
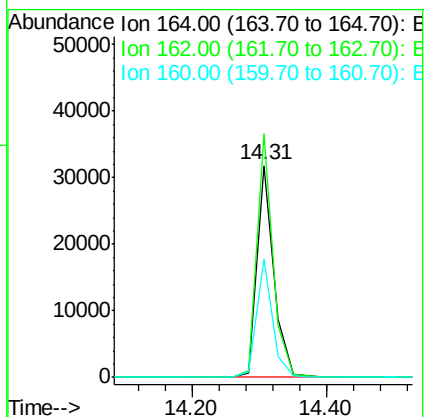
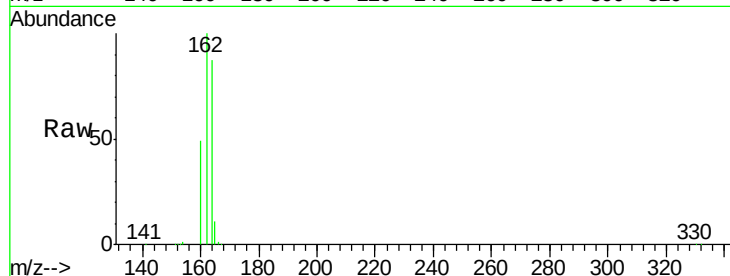
Tgt Ion:164 Resp: 55320

Ion Ratio Lower Upper

164 100

162 115.0 86.0 129.0

160 56.0 40.3 60.5



#14

2,4,6-Tribromophenol

Concen: 7.97 ng

RT: 15.82 min Scan# 927

Delta R.T. 0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

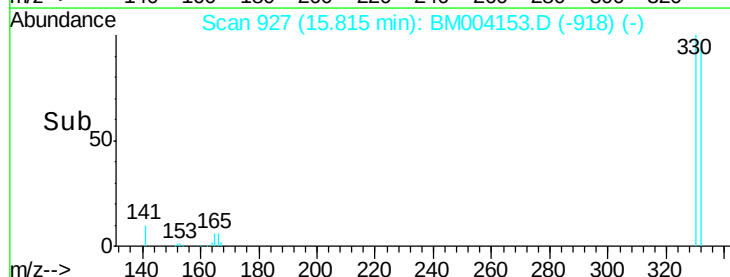
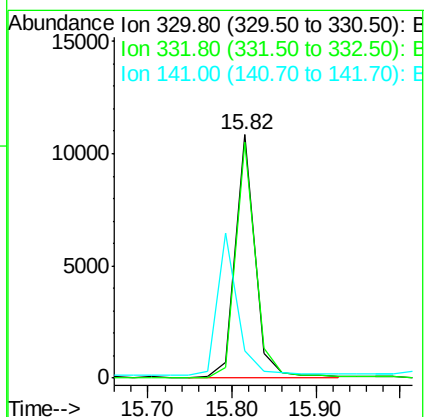
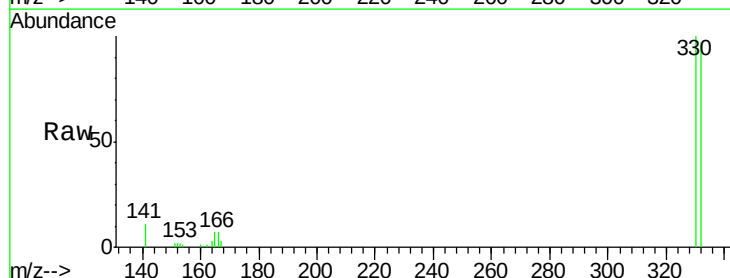
Tgt Ion:330 Resp: 17298

Ion Ratio Lower Upper

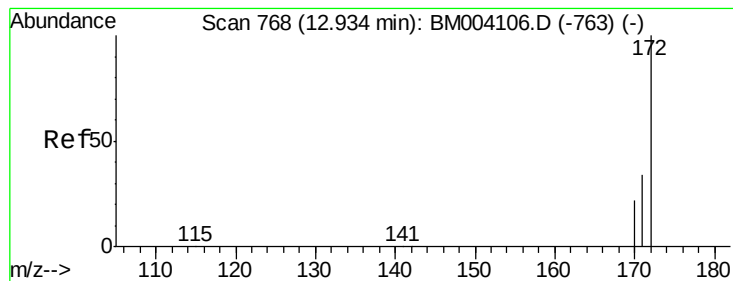
330 100

332 96.8 79.0 118.4

141 0.0 27.8 41.6#







#15

2-Fluorobiphenyl

Concen: 4.09 ng

RT: 12.93 min Scan# 768

Delta R.T. -0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

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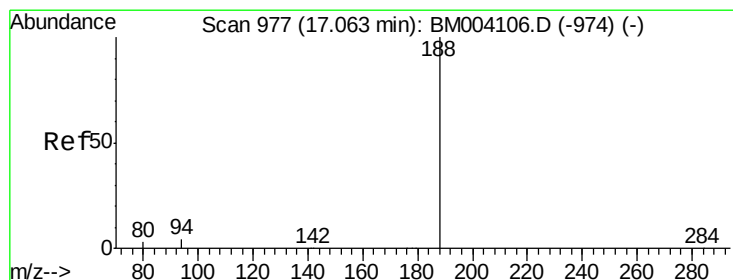
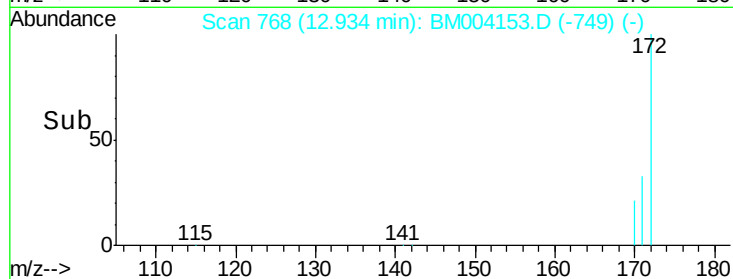
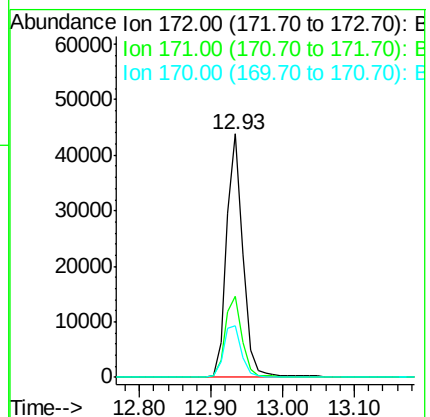
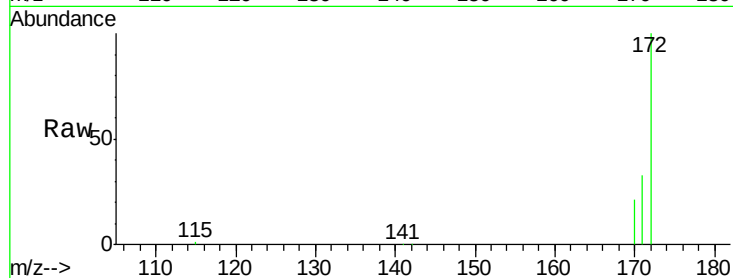
Tgt Ion:172 Resp: 69331

Ion Ratio Lower Upper

172 100

171 33.2 27.0 40.6

170 21.0 17.9 26.9



#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.06 min Scan# 977

Delta R.T. -0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

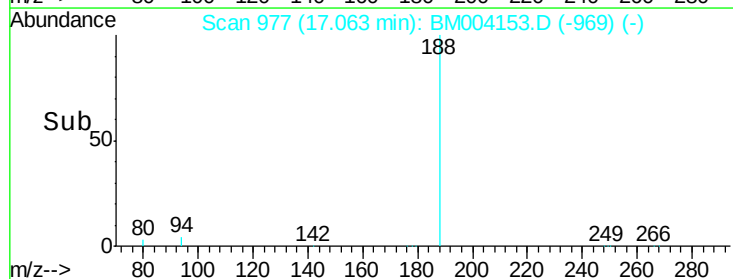
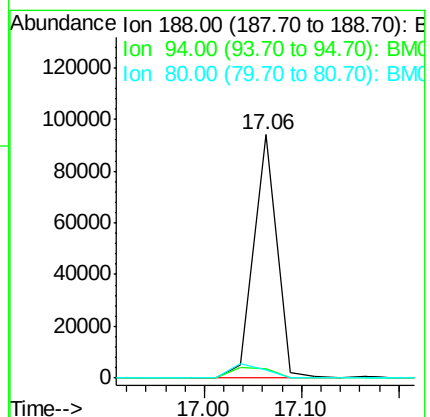
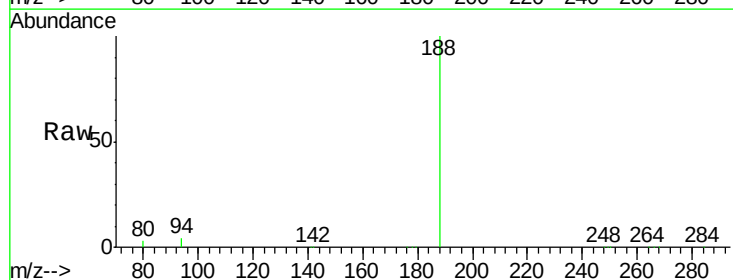
Tgt Ion:188 Resp: 155805

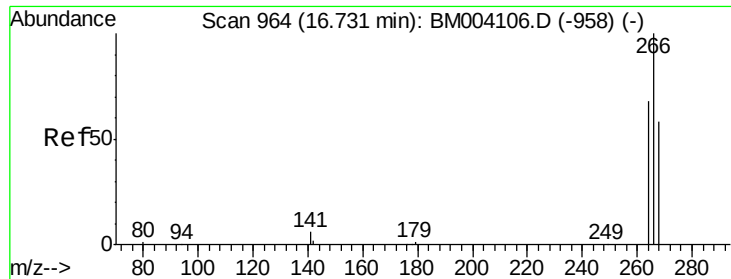
Ion Ratio Lower Upper

188 100

94 3.9 20.3 30.5#

80 3.2 22.2 33.4#





#22

Pentachlorophenol

Concen: 0.27 ng

RT: 16.73 min Scan# 964

Delta R.T. 0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

Instrument :

BNA\_M

ClientSampleId :

YT-MW10

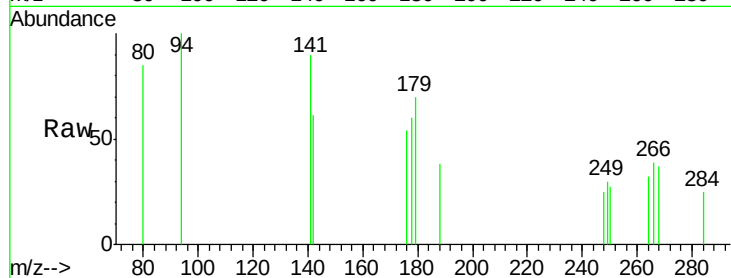
Tgt Ion: 266 Resp: 78

Ion Ratio Lower Upper

266 100

268 96.3 62.7 94.1#

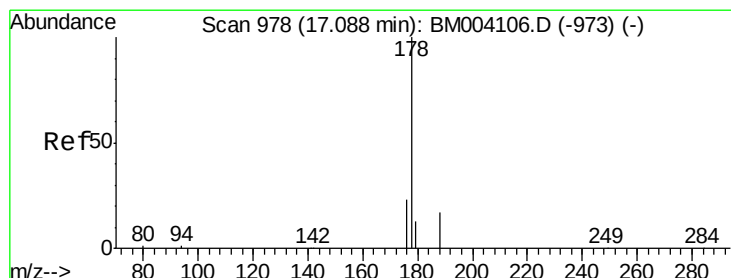
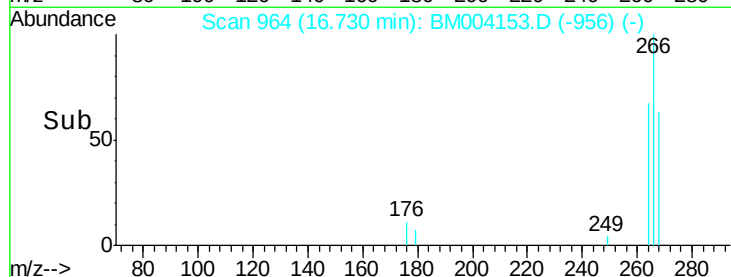
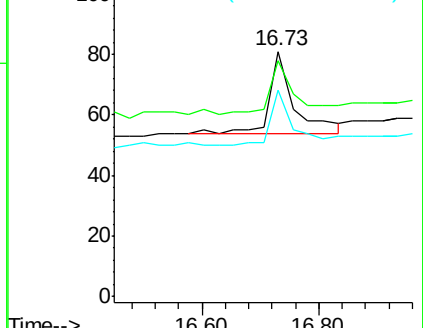
264 84.0 45.7 68.5#



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



#23

Phenanthrene

Concen: Below Cal

RT: 17.09 min Scan# 978

Delta R.T. 0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

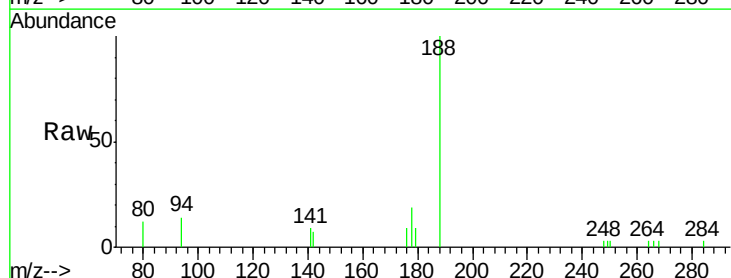
Tgt Ion: 178 Resp: 768

Ion Ratio Lower Upper

178 100

176 33.3 15.4 23.0#

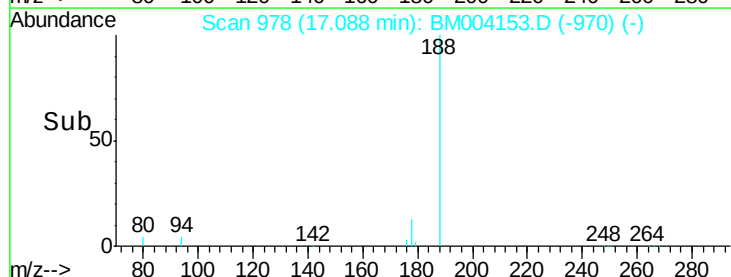
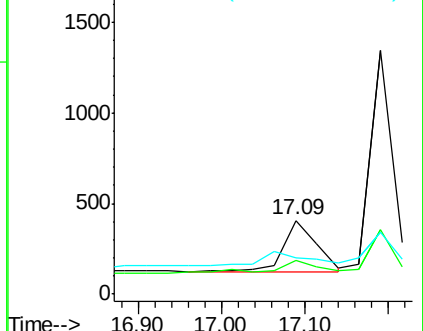
179 0.0 12.2 18.4#

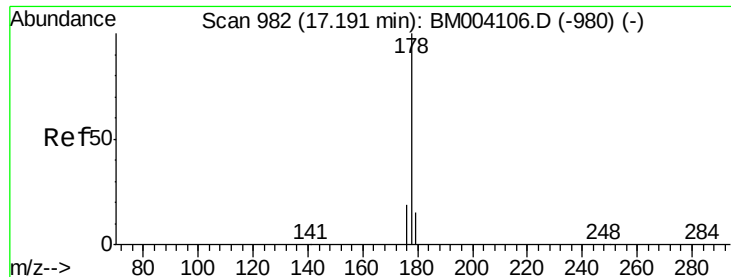


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

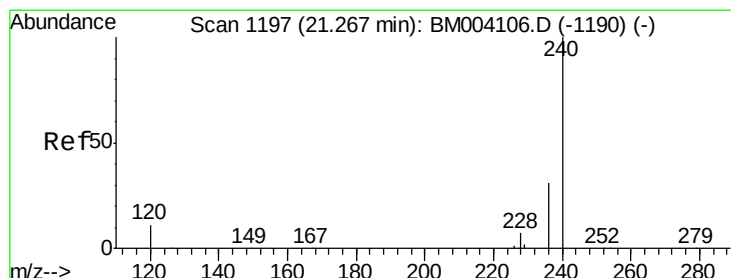
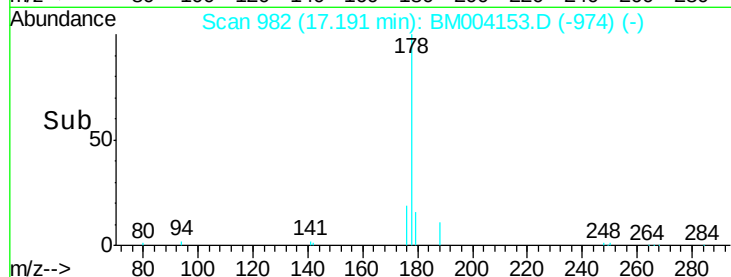
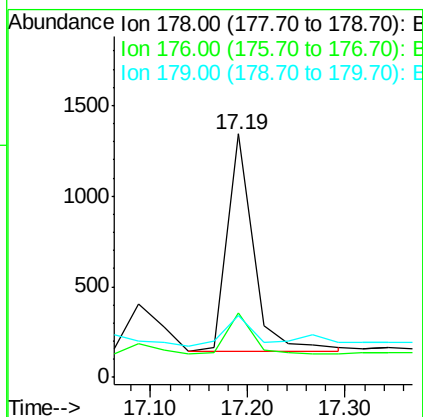
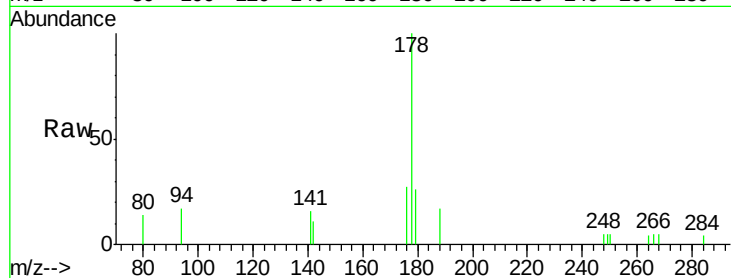




#24  
 Anthracene  
 Concen: 0.06 ng  
 RT: 17.19 min Scan# 982  
 Delta R.T. -0.00 min  
 Lab File: BM004153.D  
 Acq: 29 Jan 2016 19:13

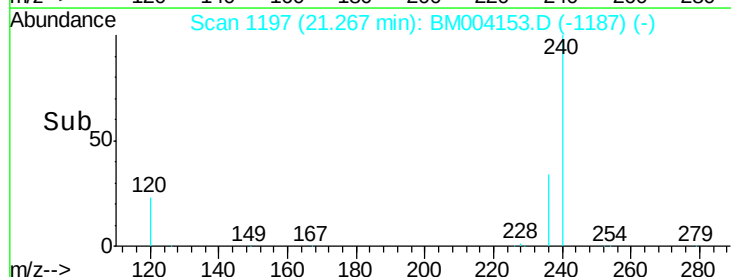
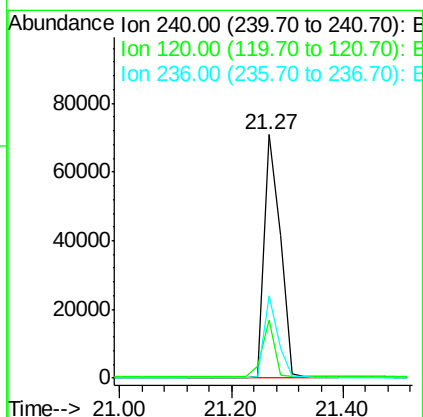
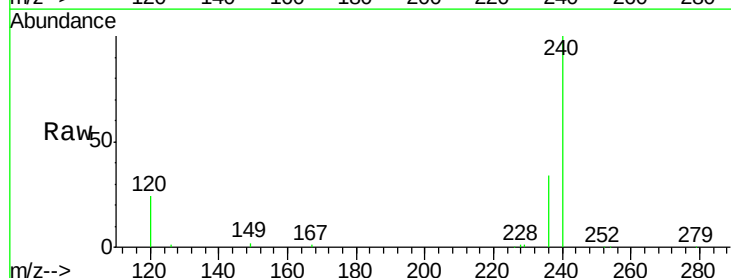
Instrument :  
 BNA\_M  
 ClientSampleId :  
 YT-MW10

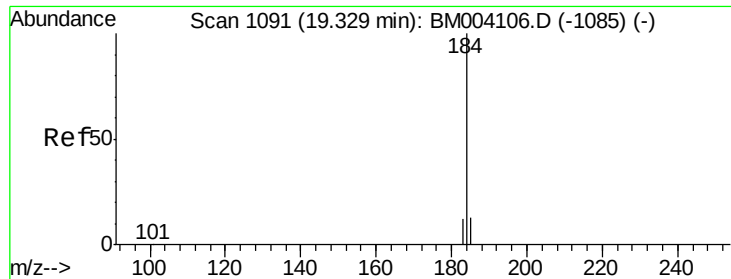
Tgt Ion:178 Resp: 2259  
 Ion Ratio Lower Upper  
 178 100  
 176 18.6 14.6 21.8  
 179 16.5 12.6 19.0



#26  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 21.27 min Scan# 1197  
 Delta R.T. -0.00 min  
 Lab File: BM004153.D  
 Acq: 29 Jan 2016 19:13

Tgt Ion:240 Resp: 140715  
 Ion Ratio Lower Upper  
 240 100  
 120 23.9 0.9 1.3#  
 236 33.8 17.3 25.9#





#27

Benzidine

Concen: 0.13 ng

RT: 19.33 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

Instrument :

BNA\_M

ClientSampleId :

YT-MW10

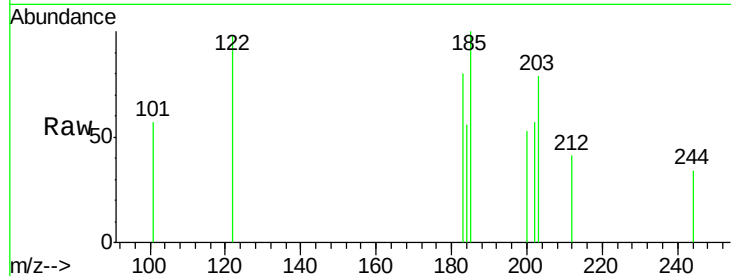
Tgt Ion:184 Resp: 175

Ion Ratio Lower Upper

184 100

185 178.3 13.2 19.8#

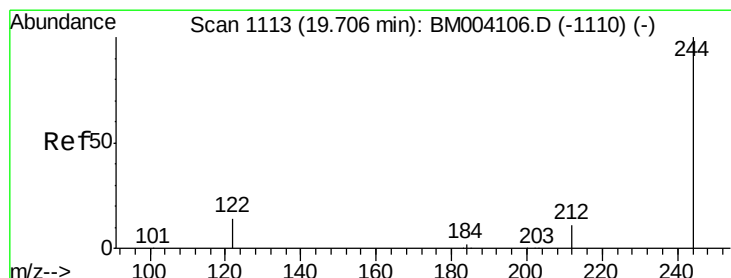
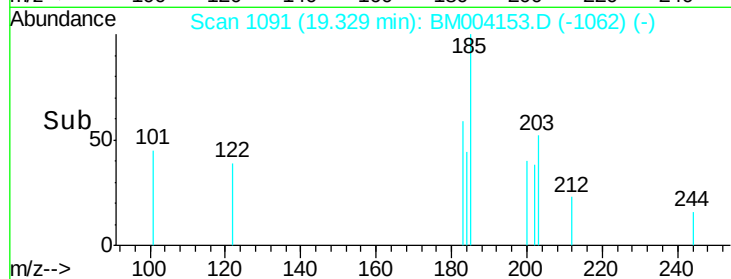
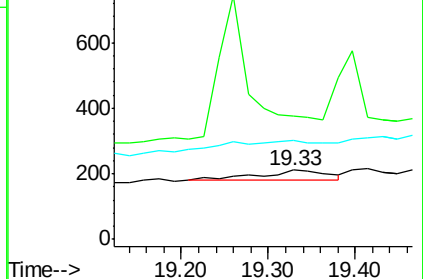
183 142.5 9.0 13.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#29

Terphenyl-d14

Concen: 5.05 ng

RT: 19.71 min Scan# 1113

Delta R.T. 0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

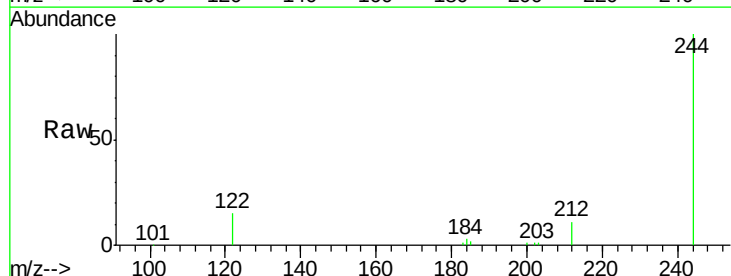
Tgt Ion:244 Resp: 90382

Ion Ratio Lower Upper

244 100

212 11.1 7.0 10.6#

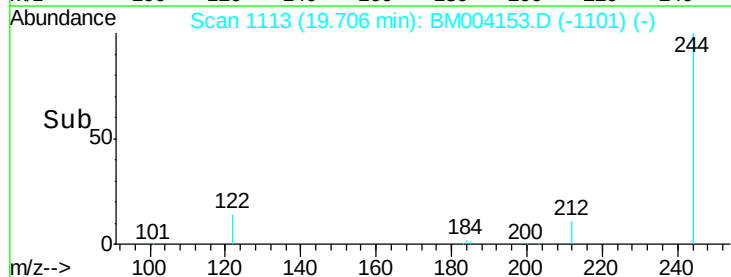
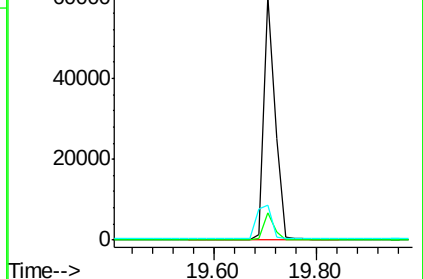
122 14.5 3.0 4.6#

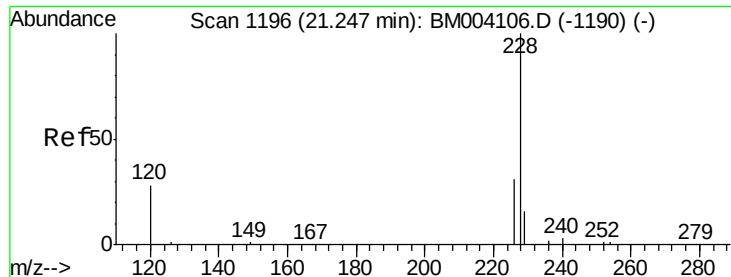


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: Below Cal

RT: 21.27 min Scan# 1197

Delta R.T. 0.02 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

Instrument :

BNA\_M

ClientSampleId :

YT-MW10

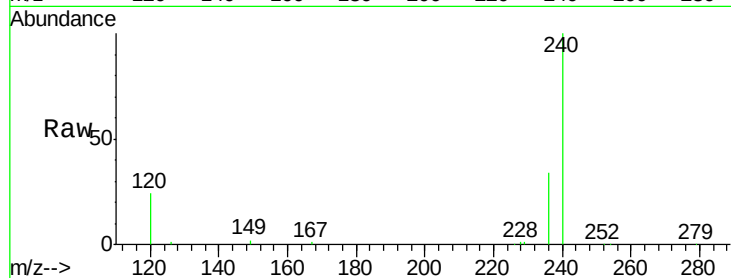
Tgt Ion: 228 Resp: 1034

Ion Ratio Lower Upper

228 100

226 48.3 17.2 25.8#

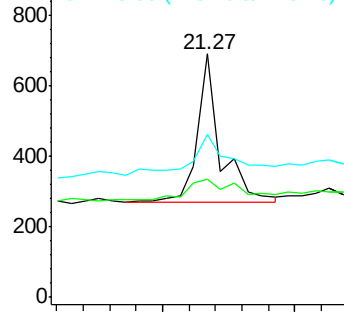
229 67.2 18.7 28.1#



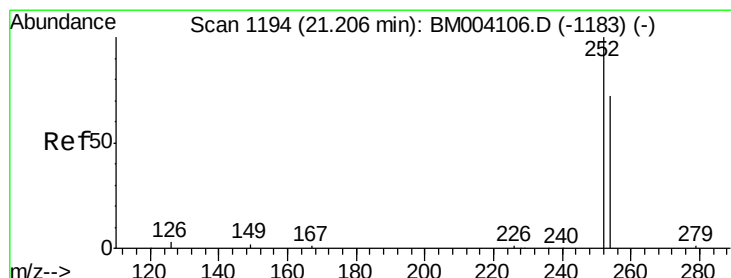
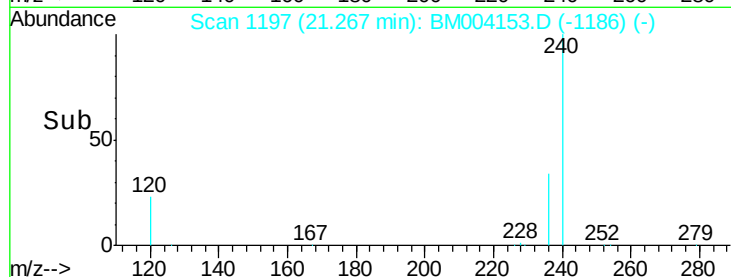
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#31

3,3'-Dichlorobenzidine

Concen: 0.03 ng

RT: 21.21 min Scan# 1194

Delta R.T. 0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

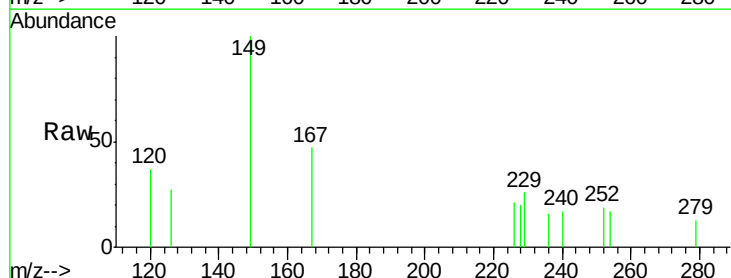
Tgt Ion: 252 Resp: 106

Ion Ratio Lower Upper

252 100

254 90.2 52.6 79.0#

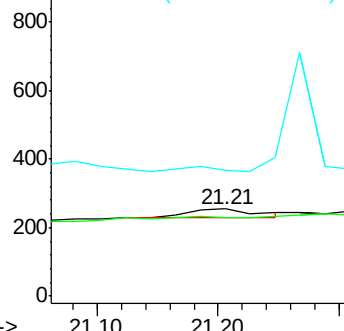
126 143.9 3.7 5.5#



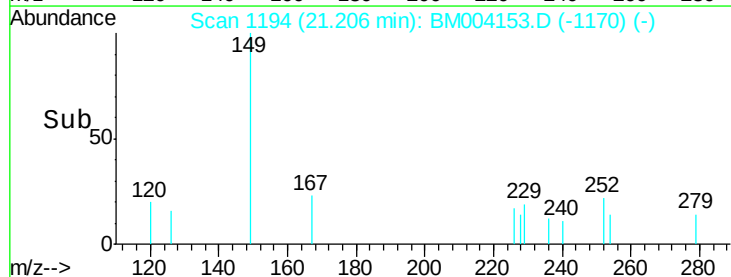
Abundance Ion 252.00 (251.70 to 252.70): E

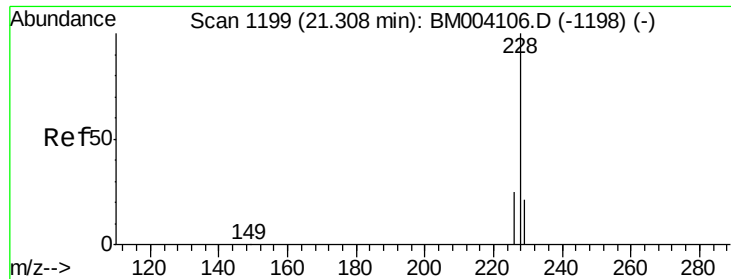
Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E



Time-->





#32

Chrysene

Concen: Below Cal

RT: 21.27 min Scan# 1197

Delta R.T. -0.04 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

Instrument :

BNA\_M

ClientSampleId :

YT-MW10

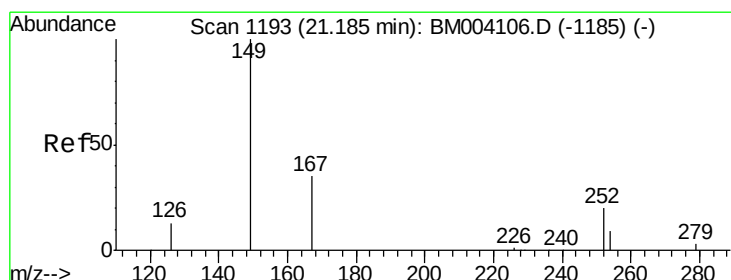
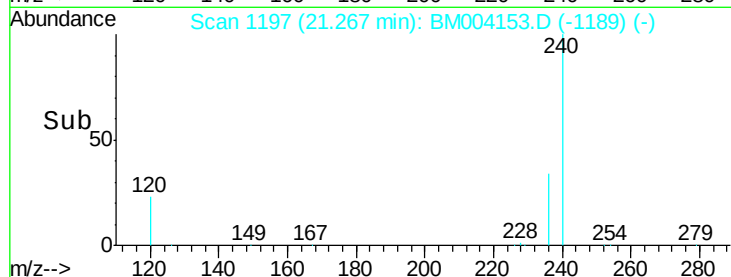
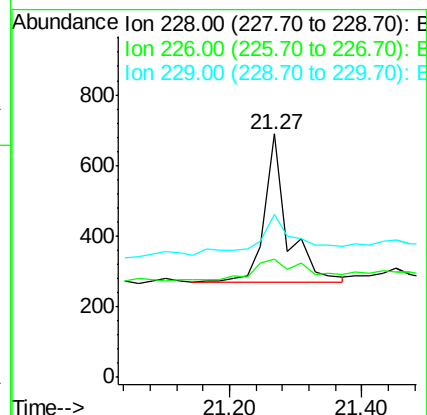
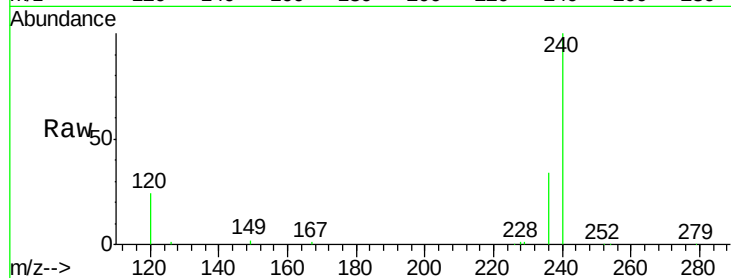
Tgt Ion: 228 Resp: 1034

Ion Ratio Lower Upper

228 100

226 48.3 25.3 37.9#

229 67.2 14.5 21.7#



#33

Bis(2-ethylhexyl)phthalate

Concen: 0.19 ng

RT: 21.19 min Scan# 1193

Delta R.T. 0.00 min

Lab File: BM004153.D

Acq: 29 Jan 2016 19:13

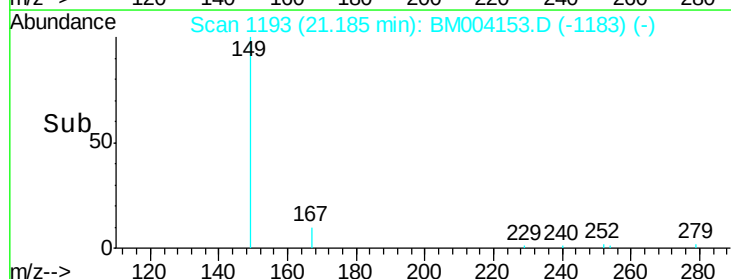
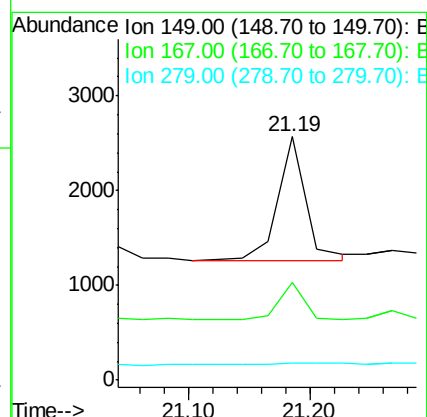
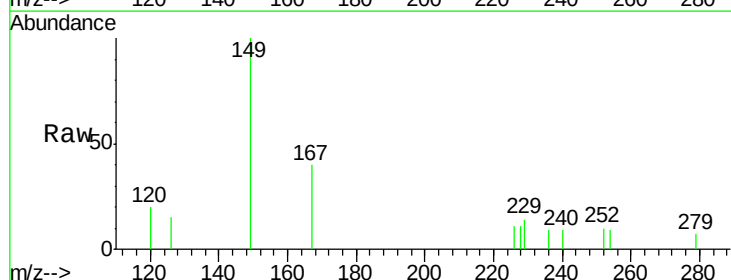
Tgt Ion: 149 Resp: 2113

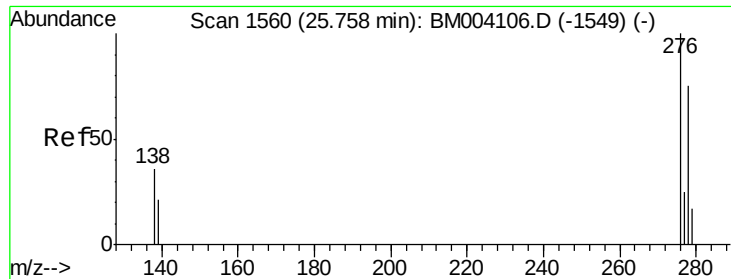
Ion Ratio Lower Upper

149 100

167 26.1 20.1 30.1

279 0.0 1.8 2.6#

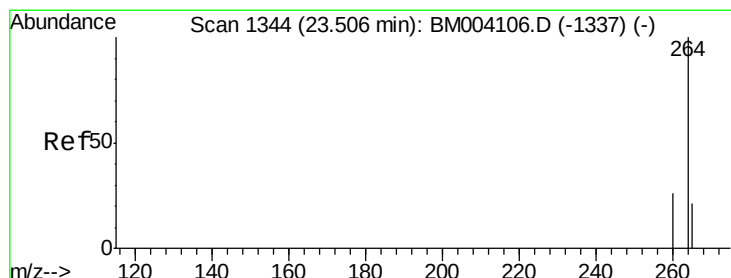
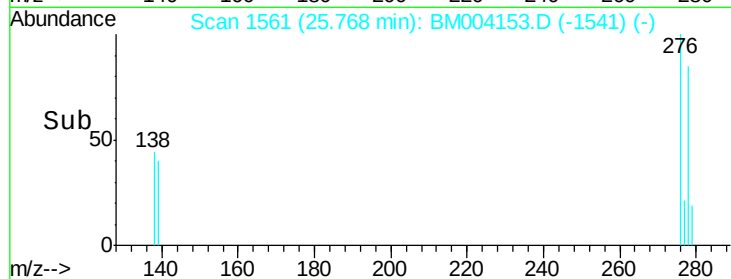
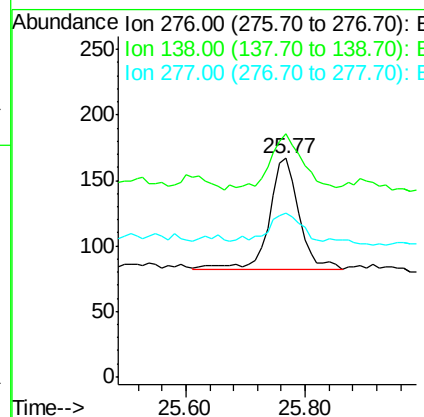
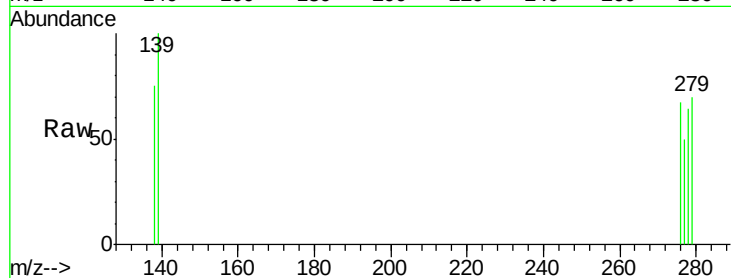




#34  
Indeno(1,2,3-cd)pyrene  
Concen: 0.03 ng  
RT: 25.77 min Scan# 1561  
Delta R.T. 0.01 min  
Lab File: BM004153.D  
Acq: 29 Jan 2016 19:13

Instrument :  
BNA\_M  
ClientSampleId :  
YT-MW10

Tgt Ion: 276 Resp: 295  
Ion Ratio Lower Upper  
276 100  
138 55.3 30.2 45.2#  
277 29.8 19.8 29.8#



#35  
Perylene-d12  
Concen: 5.00 ng  
RT: 23.52 min Scan# 1345  
Delta R.T. 0.01 min  
Lab File: BM004153.D  
Acq: 29 Jan 2016 19:13

Tgt Ion: 264 Resp: 152702  
Ion Ratio Lower Upper  
264 100  
260 25.0 21.2 31.8  
265 22.4 16.7 25.1

