

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM051915\  
 Data File : BM001343.D  
 Acq On : 19 May 2015 11:29  
 Operator : TP/IZ  
 Sample : G2274-03RE  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 051315-P03-E-D-M

Quant Time: May 20 04:07:19 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SIMPAH-BM051315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 20 03:51:55 2015  
 Response via : Initial Calibration

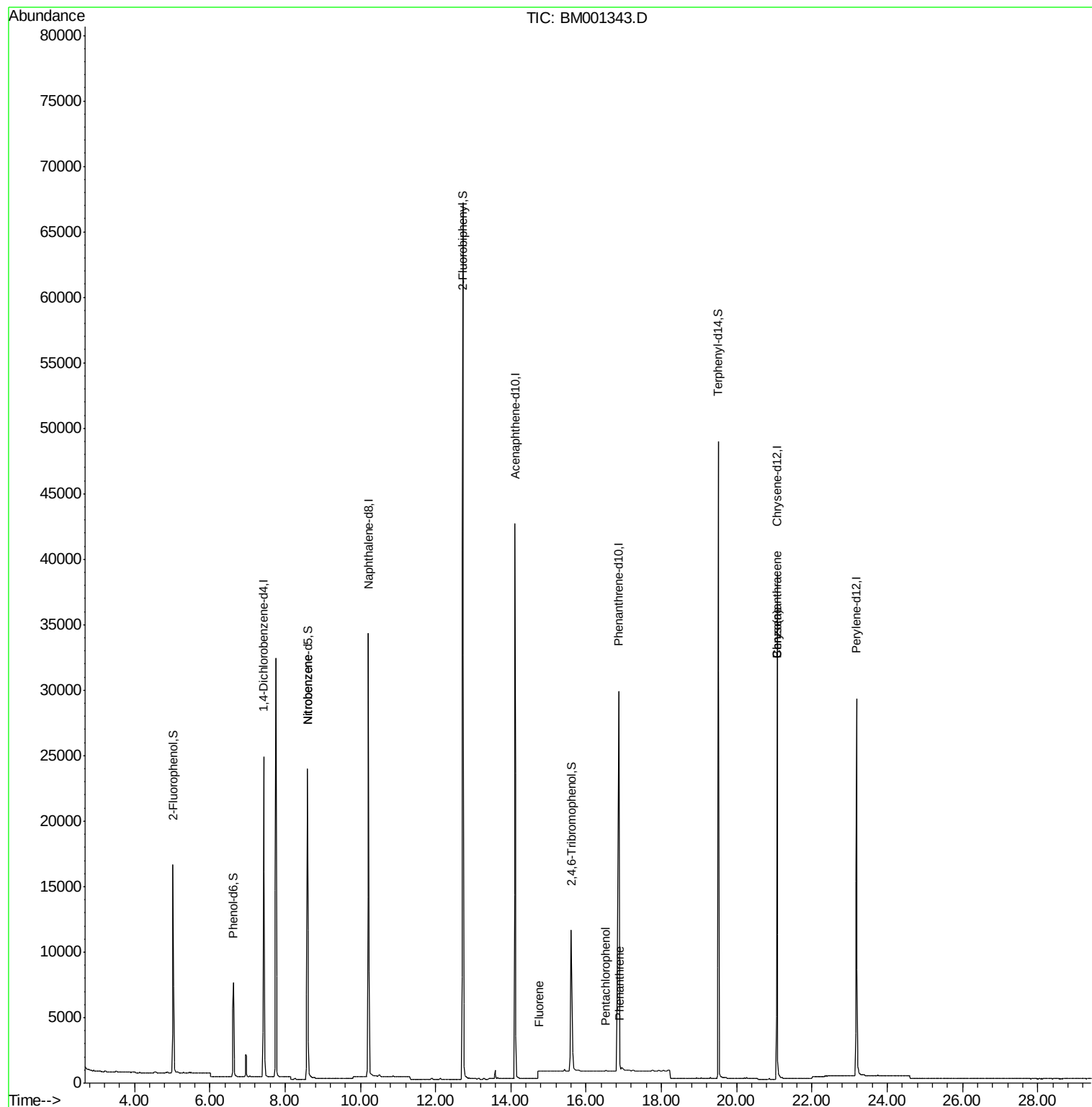
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.43  | 152  | 12911    | 5.00  | ng    | 0.00     |
| 6) Naphthalene-d8           | 10.22 | 136  | 46546    | 5.00  | ng    | 0.00     |
| 12) Acenaphthene-d10        | 14.11 | 164  | 24002    | 5.00  | ng    | 0.00     |
| 18) Phenanthrene-d10        | 16.86 | 188  | 55172    | 5.00  | ng    | 0.00     |
| 24) Chrysene-d12            | 21.07 | 240  | 38105    | 5.00  | ng    | 0.00     |
| 30) Perylene-d12            | 23.18 | 264  | 35523    | 5.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.02  | 112  | 12193    | 4.85  | ng    | 0.00     |
| 5) Phenol-d6                | 6.63  | 99   | 8526     | 3.00  | ng    | 0.00     |
| 7) Nitrobenzene-d5          | 8.60  | 82   | 20867    | 7.06  | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol    | 15.61 | 330  | 10569    | 12.80 | ng    | -0.02    |
| 14) 2-Fluorobiphenyl        | 12.73 | 172  | 62175    | 8.34  | ng    | 0.00     |
| 26) Terphenyl-d14           | 19.51 | 244  | 52315    | 10.22 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 8) Nitrobenzene             | 8.60  | 77   | 74       | 0.15  | ng    | # 28     |
| 17) Fluorene                | 14.75 | 166  | 269      | 0.05  | ng    | # 14     |
| 20) Pentachlorophenol       | 16.52 | 266  | 33       | 0.44  | ng    | # 79     |
| 21) Phenanthrene            | 16.89 | 178  | 198      | 0.02  | ng    | # 95     |
| 27) Benzo(a)anthracene      | 21.06 | 228  | 221      | 0.02  | ng    | # 59     |
| 28) Chrysene                | 21.06 | 228  | 221      | 0.02  | ng    | # 62     |

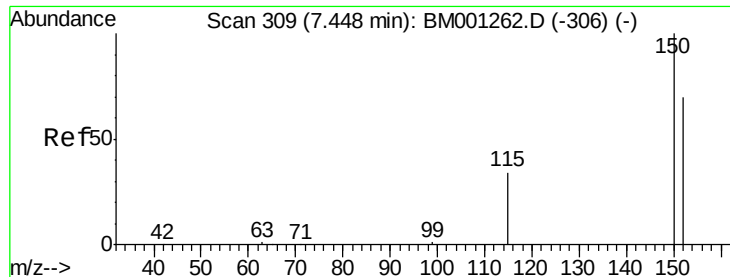
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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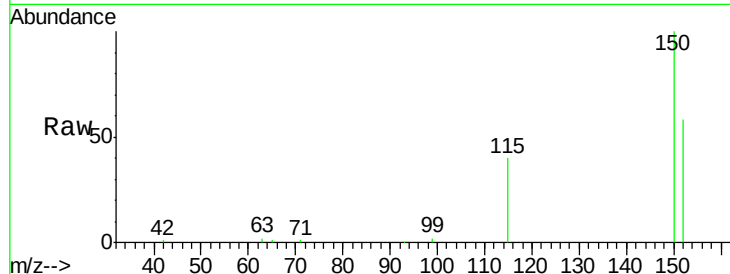




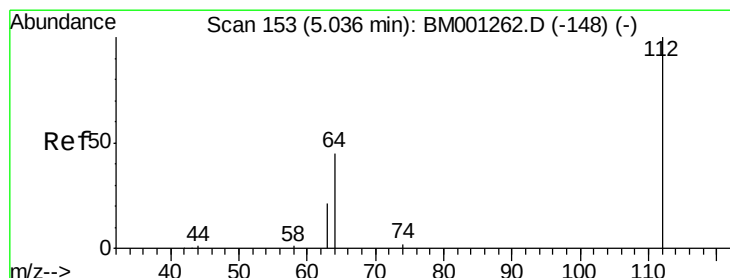
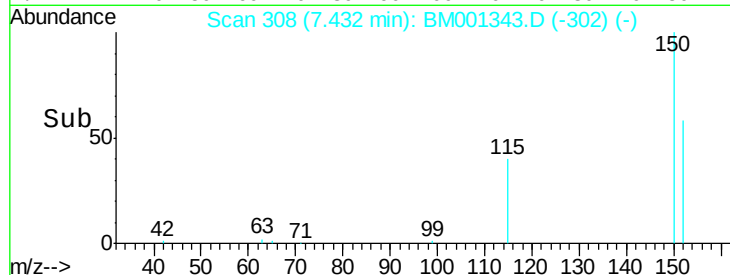
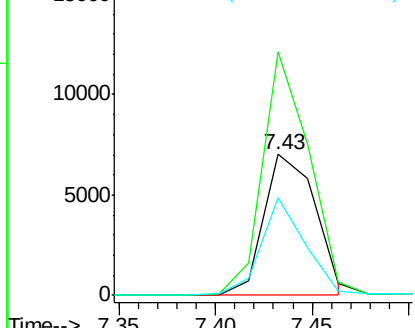
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 5.00 ng  
 RT: 7.43 min Scan# 308  
 Delta R.T. 0.00 min  
 Lab File: BM001343.D  
 Acq: 19 May 2015 11:29

Instrument :  
 BNA\_M  
 ClientSampleId :  
 051315-P03-E-D-M

Tgt Ion:152 Resp: 12911  
 Ion Ratio Lower Upper  
 152 100  
 150 173.1 114.6 172.0#  
 115 69.9 39.3 58.9#

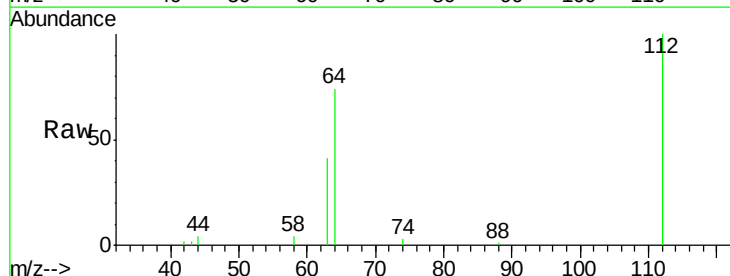


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

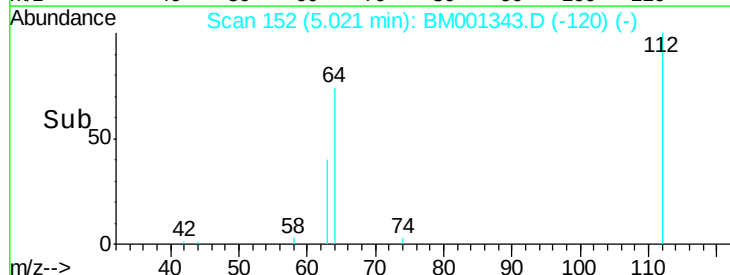
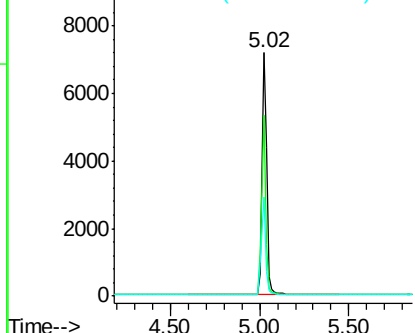


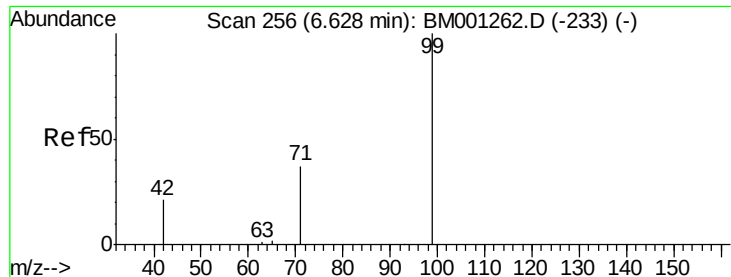
#4  
 2-Fluorophenol  
 Concen: 4.85 ng  
 RT: 5.02 min Scan# 152  
 Delta R.T. 0.00 min  
 Lab File: BM001343.D  
 Acq: 19 May 2015 11:29

Tgt Ion:112 Resp: 12193  
 Ion Ratio Lower Upper  
 112 100  
 64 64.1 50.8 76.2  
 63 36.3 28.2 42.4



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: 3.00 ng

RT: 6.63 min Scan# 256

Delta R.T. 0.00 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

Instrument :

BNA\_M

ClientSampleId :

051315-P03-E-D-M

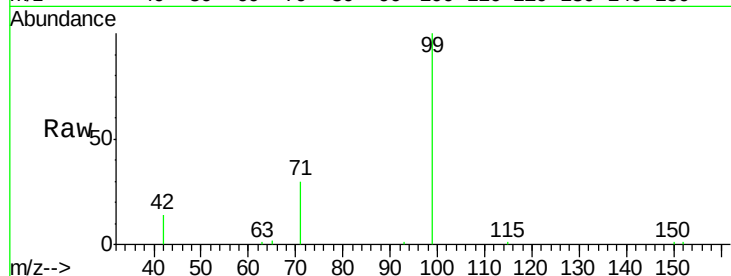
Tgt Ion: 99 Resp: 8526

Ion Ratio Lower Upper

99 100

42 25.0 19.9 29.9

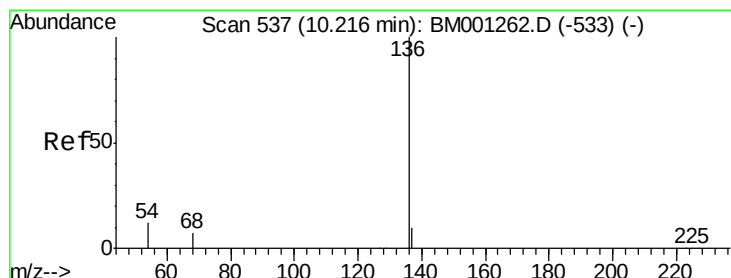
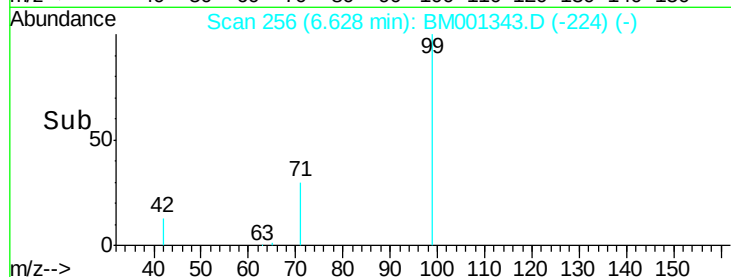
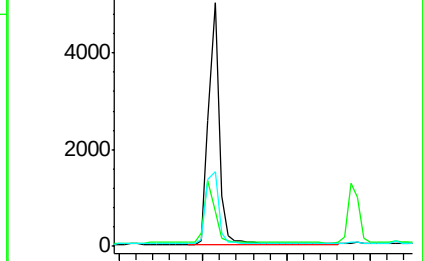
71 35.6 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BM001262.D (-233) (-)

Ion 42.00 (41.70 to 42.70): BM001262.D (-233) (-)

Ion 71.00 (70.70 to 71.70): BM001262.D (-233) (-)



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.22 min Scan# 537

Delta R.T. 0.00 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

Tgt Ion: 136 Resp: 46546

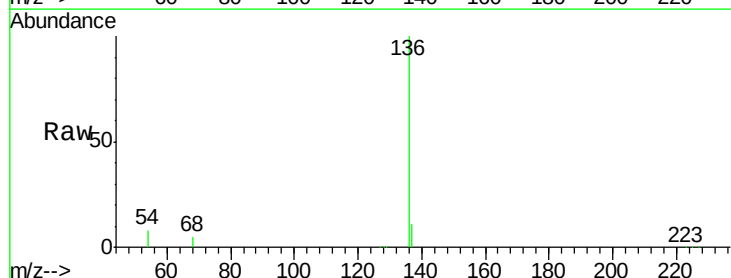
Ion Ratio Lower Upper

136 100

137 11.1 8.2 12.4

54 7.7 9.5 14.3#

68 4.7 5.5 8.3#

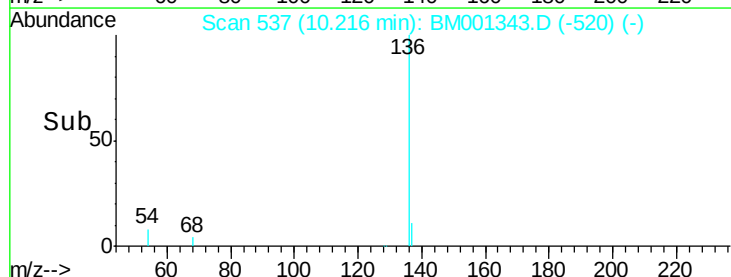
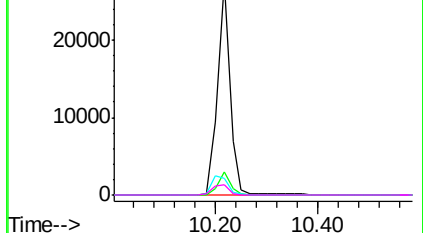


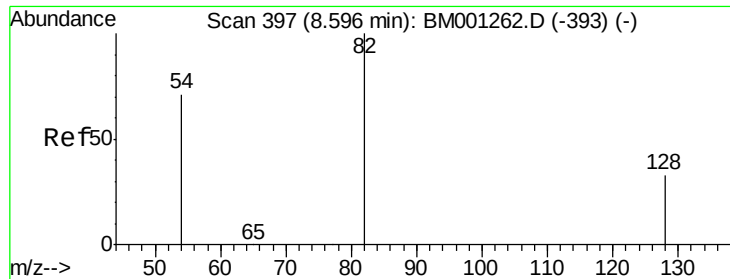
Abundance Ion 136.00 (135.70 to 136.70): BM001262.D (-533) (-)

Ion 137.00 (136.70 to 137.70): BM001262.D (-533) (-)

Ion 54.00 (53.70 to 54.70): BM001262.D (-533) (-)

Ion 68.00 (67.70 to 68.70): BM001262.D (-533) (-)





#7

Nitrobenzene-d5

Concen: 7.06 ng

RT: 8.60 min Scan# 397

Delta R.T. 0.00 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

Instrument :

BNA\_M

ClientSampleId :

051315-P03-E-D-M

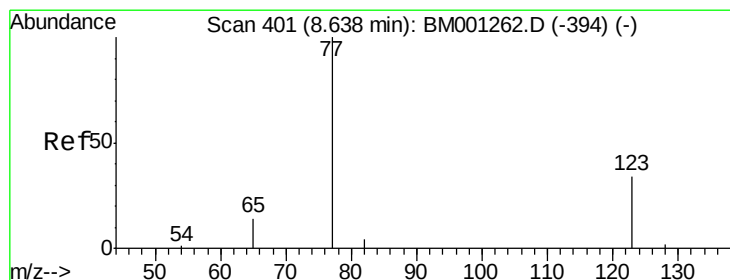
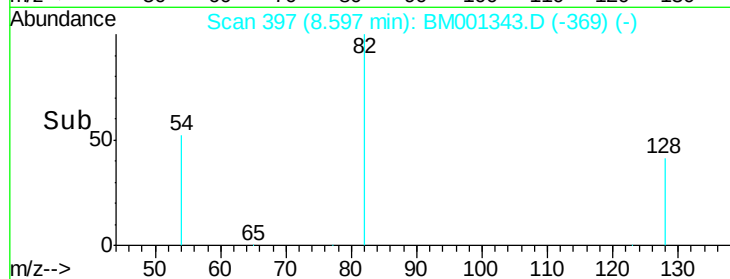
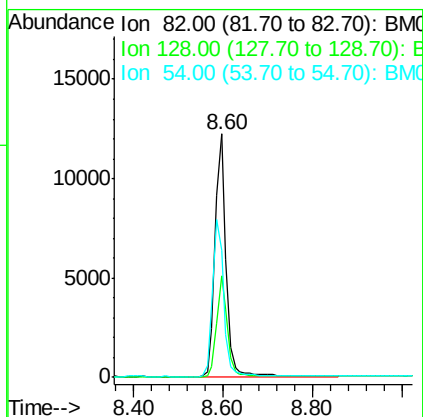
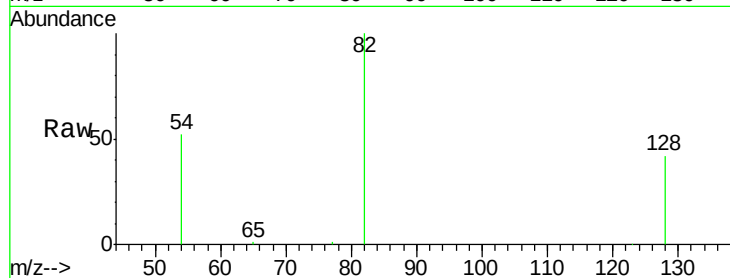
Tgt Ion: 82 Resp: 20867

Ion Ratio Lower Upper

82 100

128 41.7 28.0 42.0

54 52.3 57.3 85.9#



#8

Nitrobenzene

Concen: 0.15 ng

RT: 8.60 min Scan# 397

Delta R.T. -0.04 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

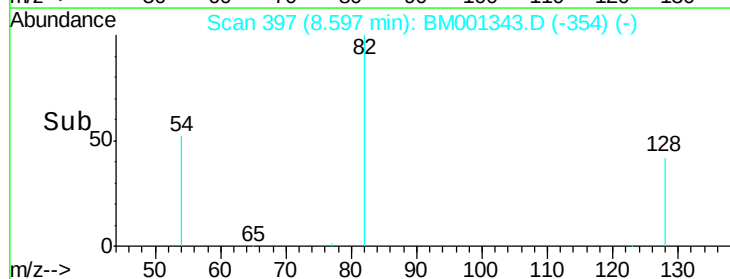
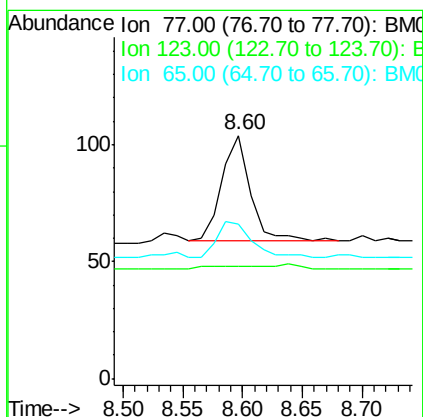
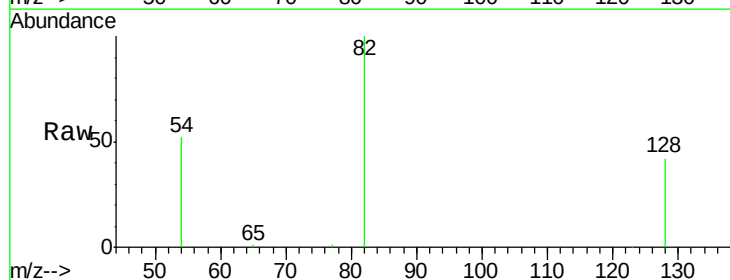
Tgt Ion: 77 Resp: 74

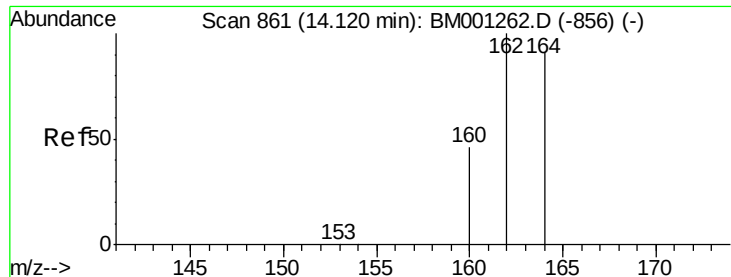
Ion Ratio Lower Upper

77 100

123 0.0 33.4 50.2#

65 48.6 10.6 15.8#





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.11 min Scan# 860

Delta R.T. -0.01 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

Instrument :

BNA\_M

ClientSampleId :

051315-P03-E-D-M

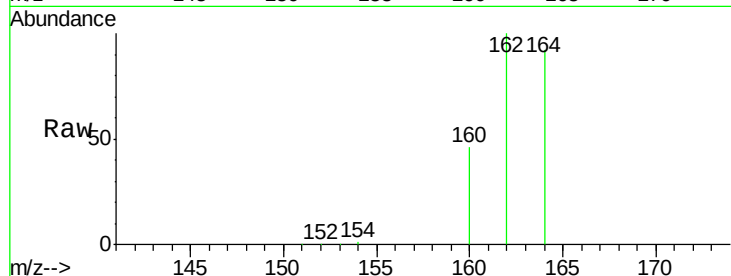
Tgt Ion:164 Resp: 24002

Ion Ratio Lower Upper

164 100

162 109.1 87.9 131.9

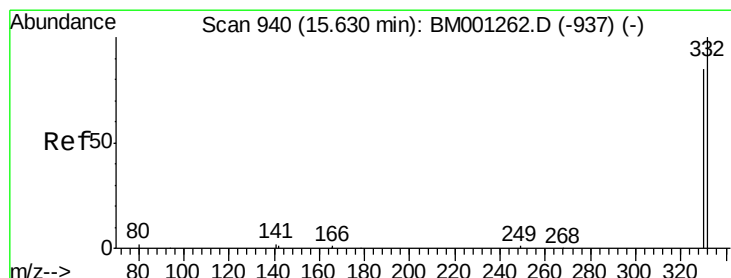
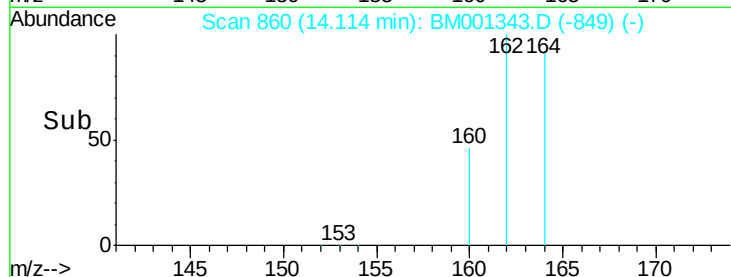
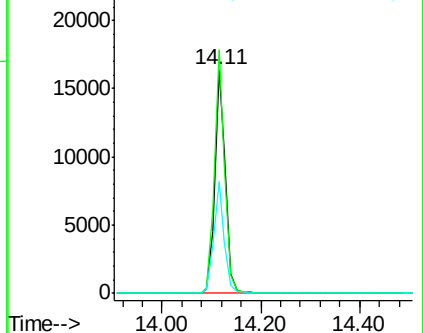
160 50.3 40.9 61.3



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



#13

2,4,6-Tribromophenol

Concen: 12.80 ng

RT: 15.61 min Scan# 939

Delta R.T. -0.02 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

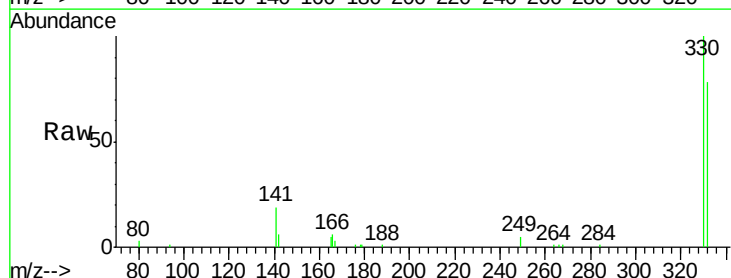
Tgt Ion:330 Resp: 10569

Ion Ratio Lower Upper

330 100

332 83.6 89.0 133.4#

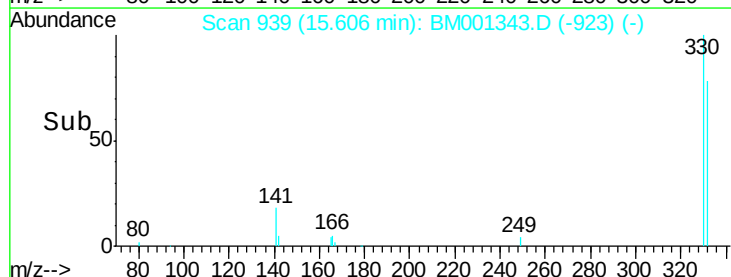
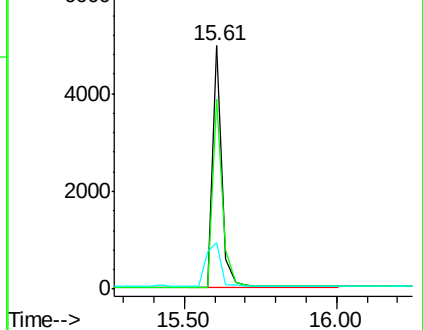
141 29.9 0.0 0.0#

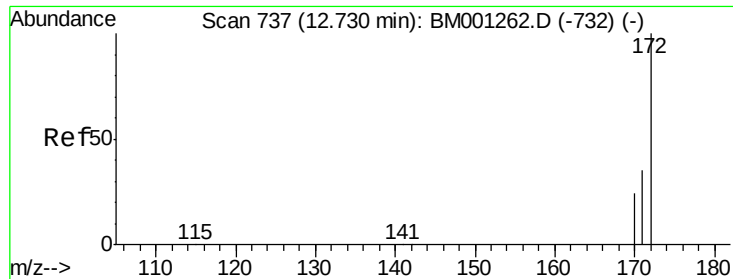


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

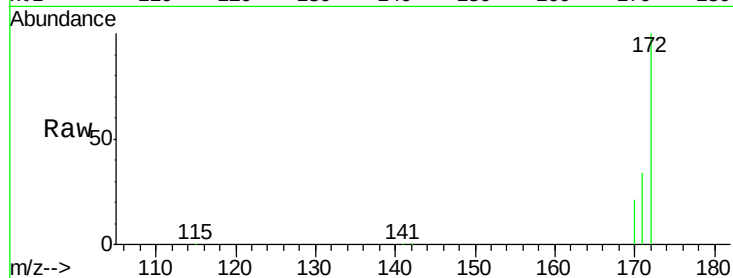




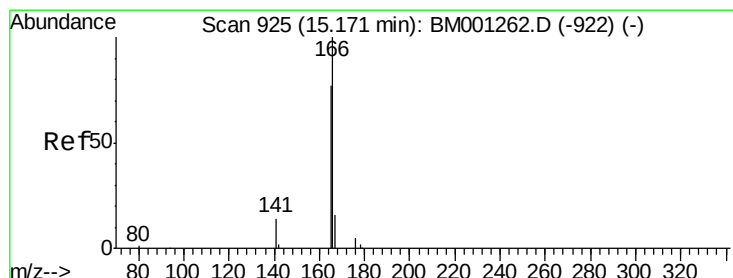
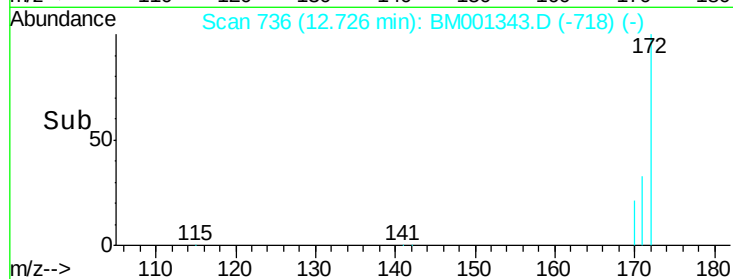
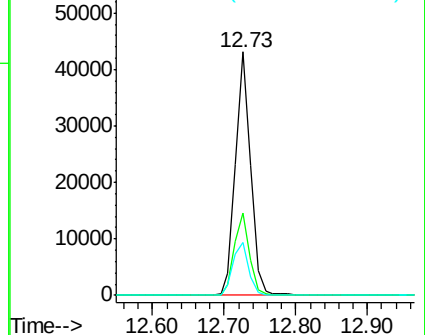
#14  
2-Fluorobiphenyl  
Concen: 8.34 ng  
RT: 12.73 min Scan# 736  
Delta R.T. -0.00 min  
Lab File: BM001343.D  
Acq: 19 May 2015 11:29

Instrument :  
BNA\_M  
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Tgt Ion:172 Resp: 62175  
Ion Ratio Lower Upper  
172 100  
171 33.6 28.7 43.1  
170 21.5 19.5 29.3

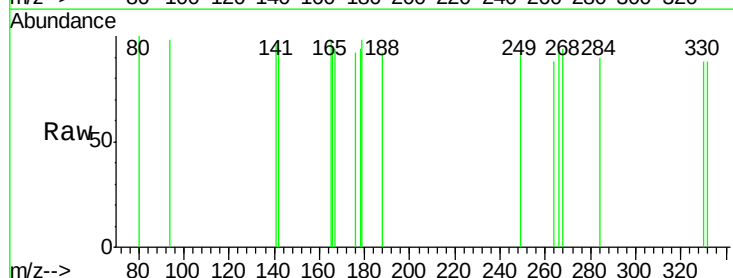


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

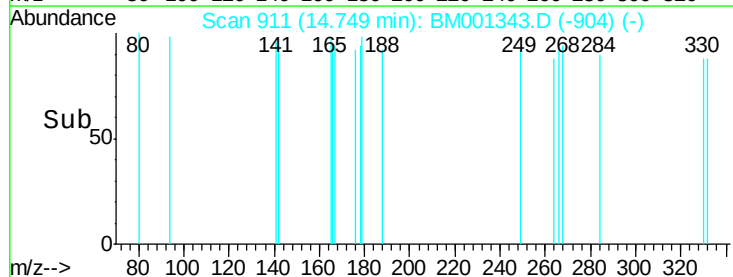
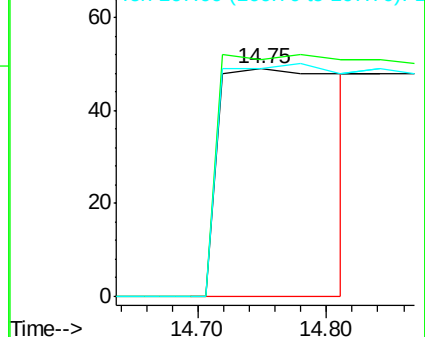


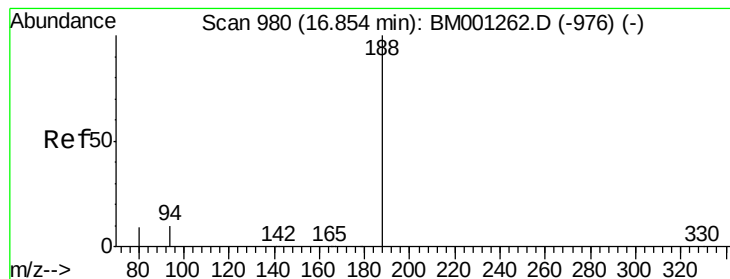
#17  
Fluorene  
Concen: 0.05 ng  
RT: 14.75 min Scan# 911  
Delta R.T. -0.39 min  
Lab File: BM001343.D  
Acq: 19 May 2015 11:29

Tgt Ion:166 Resp: 269  
Ion Ratio Lower Upper  
166 100  
165 0.0 70.6 106.0#  
167 0.0 11.3 16.9#



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





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.86 min Scan# 980

Delta R.T. 0.01 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

Instrument :

BNA\_M

ClientSampleId :

051315-P03-E-D-M

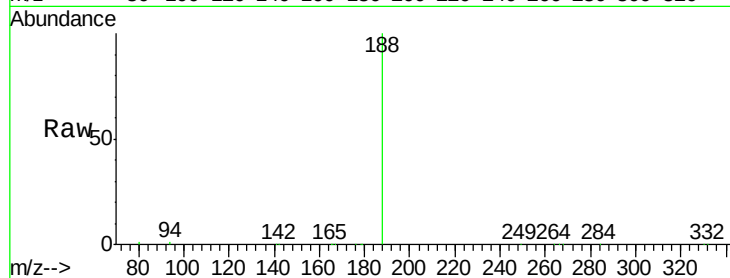
Tgt Ion:188 Resp: 55172

Ion Ratio Lower Upper

188 100

94 1.2 7.8 11.8#

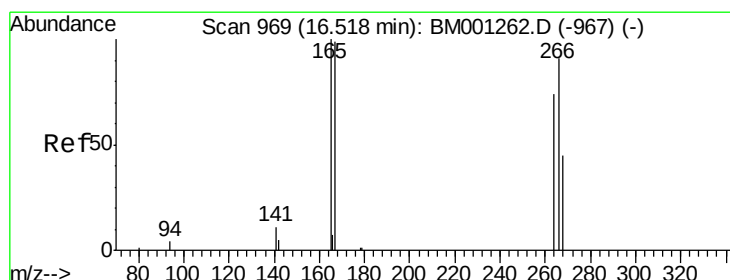
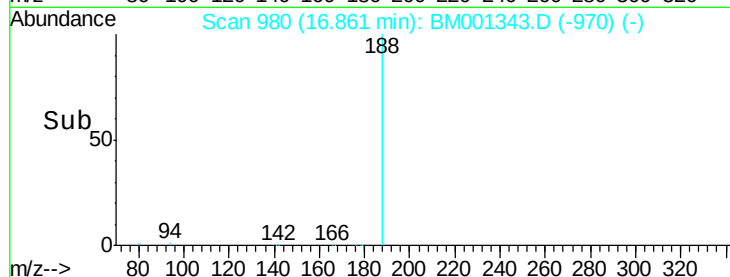
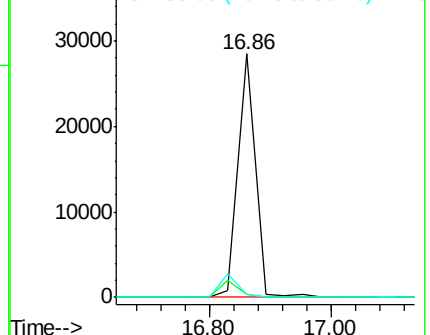
80 1.0 7.5 11.3#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0



#20

Pentachlorophenol

Concen: 0.44 ng

RT: 16.52 min Scan# 969

Delta R.T. 0.01 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

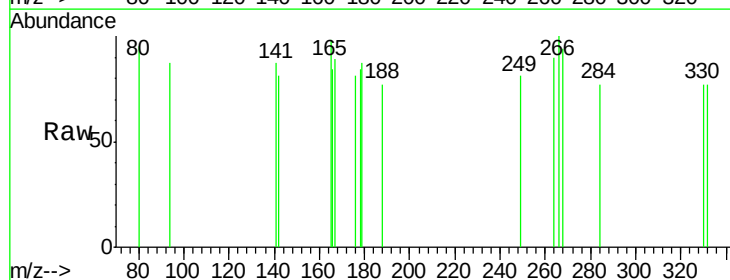
Tgt Ion:266 Resp: 33

Ion Ratio Lower Upper

266 100

268 93.5 49.4 74.0#

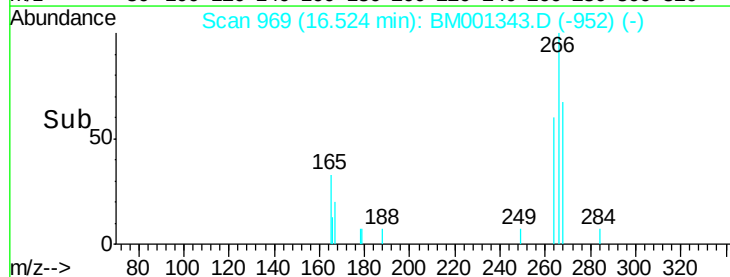
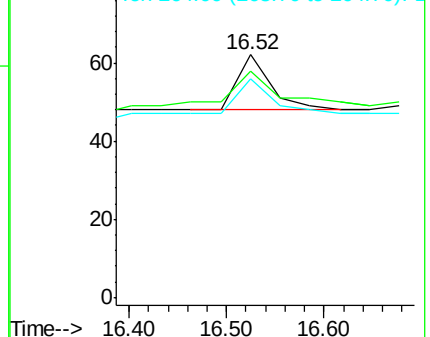
264 90.3 67.8 101.6



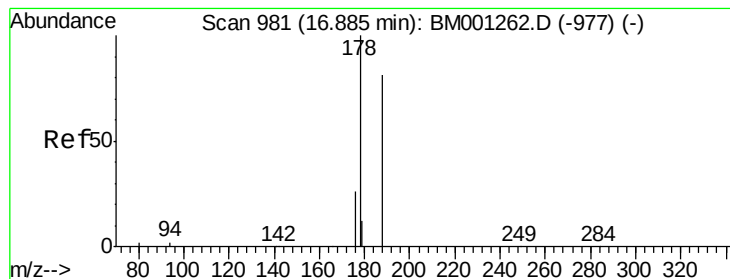
Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E







#21

Phenanthrene

Concen: 0.02 ng

RT: 16.89 min Scan# 981

Delta R.T. 0.01 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

Instrument :

BNA\_M

ClientSampleId :

051315-P03-E-D-M

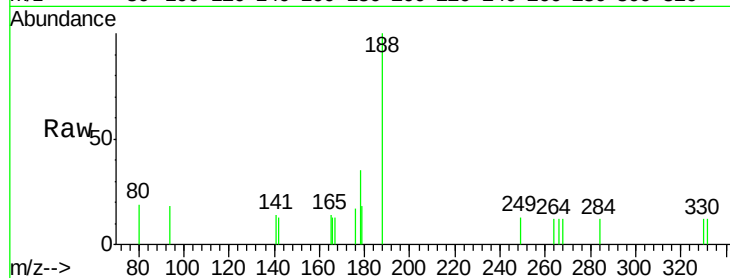
Tgt Ion:178 Resp: 198

Ion Ratio Lower Upper

178 100

176 22.2 15.9 23.9

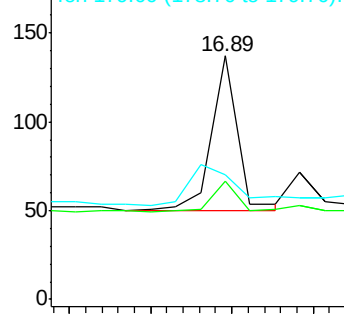
179 0.0 0.0 0.0



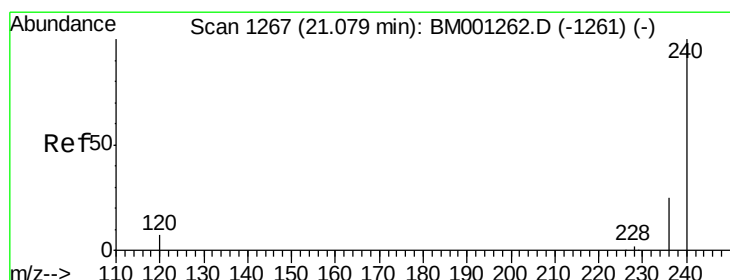
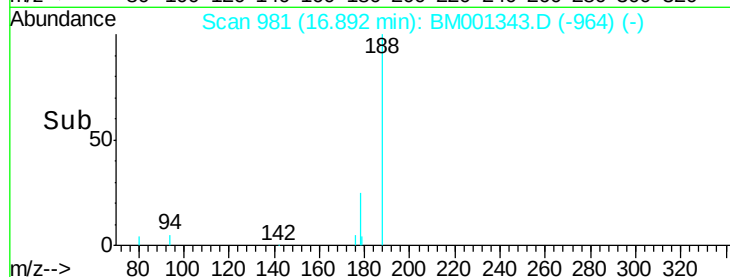
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.07 min Scan# 1266

Delta R.T. 0.01 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

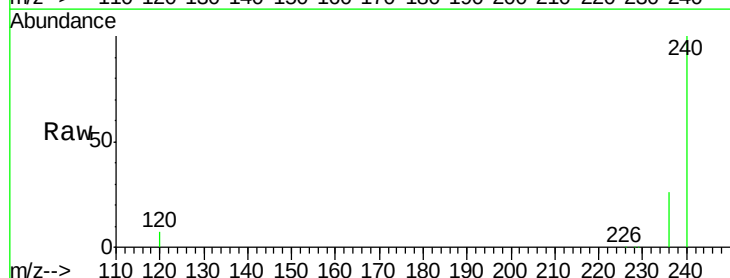
Tgt Ion:240 Resp: 38105

Ion Ratio Lower Upper

240 100

120 7.0 5.5 8.3

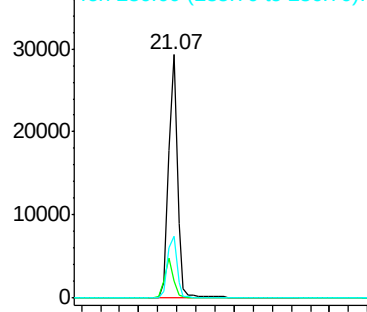
236 25.6 20.4 30.6



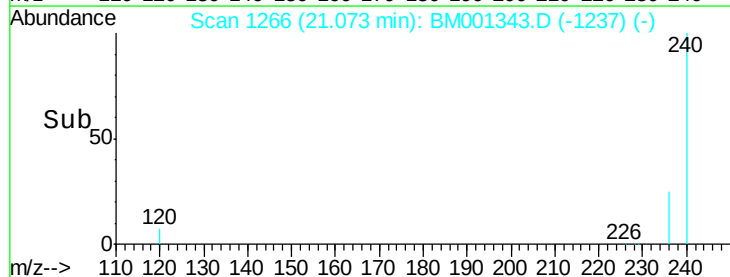
Abundance Ion 240.00 (239.70 to 240.70): E

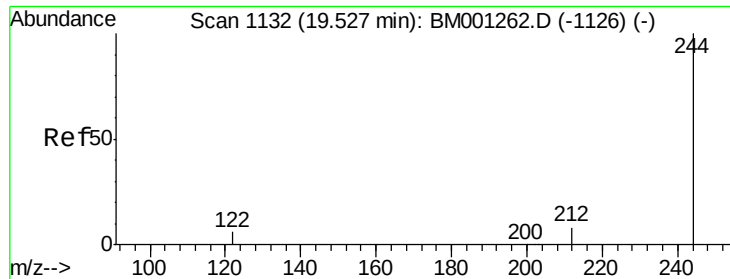
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->





#26

Terphenyl-d14

Concen: 10.22 ng

RT: 19.51 min Scan# 1130

Delta R.T. -0.01 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

Instrument :

BNA\_M

ClientSampleId :

051315-P03-E-D-M

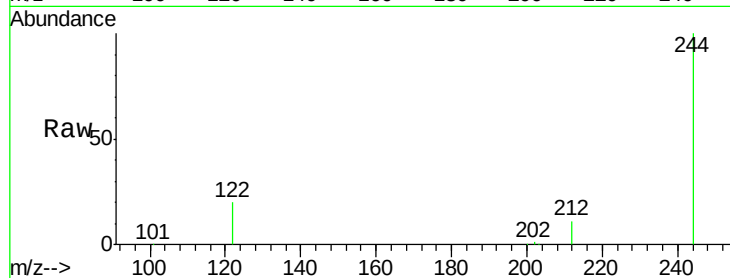
Tgt Ion:244 Resp: 52315

Ion Ratio Lower Upper

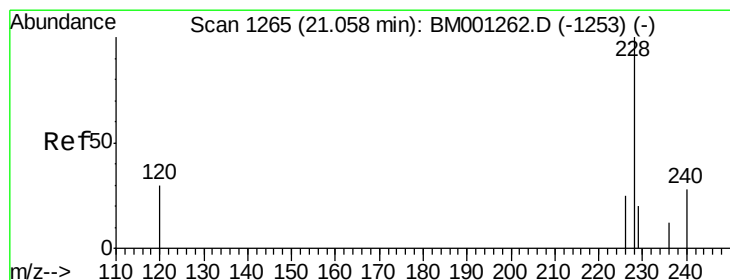
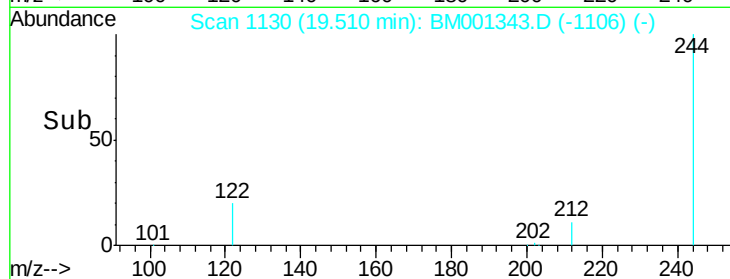
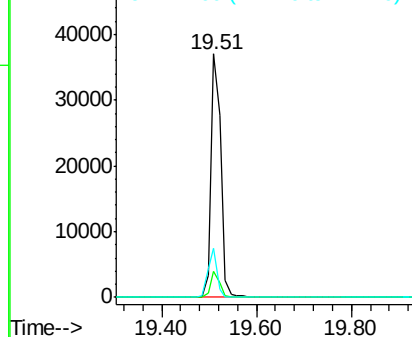
244 100

212 10.6 7.2 10.8

122 20.1 5.6 8.4#



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



#27

Benzo(a)anthracene

Concen: 0.02 ng

RT: 21.06 min Scan# 1265

Delta R.T. 0.02 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

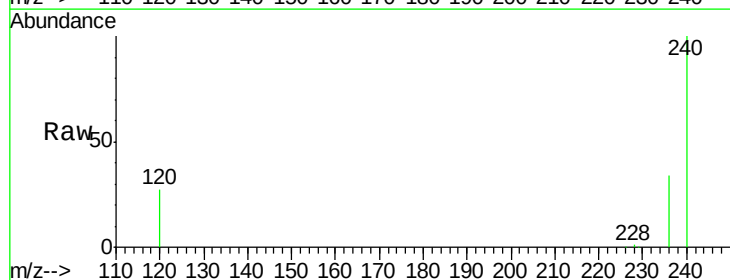
Tgt Ion:228 Resp: 221

Ion Ratio Lower Upper

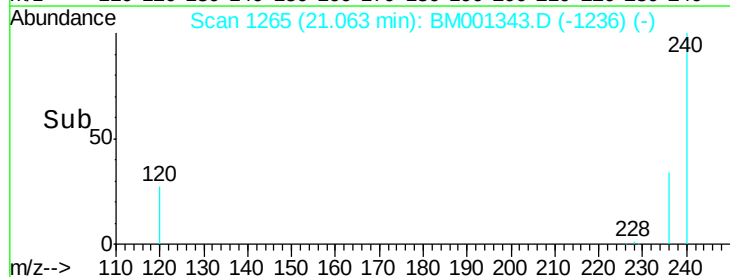
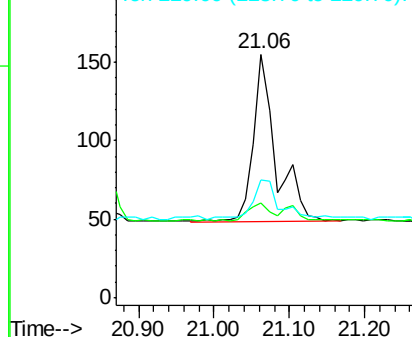
228 100

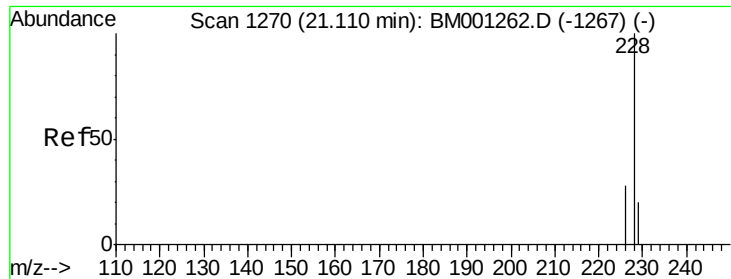
226 38.7 20.5 30.7#

229 48.4 16.2 24.4#



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





#28

Chrysene

Concen: 0.02 ng

RT: 21.06 min Scan# 1265

Delta R.T. -0.04 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

Instrument :

BNA\_M

ClientSampleId :

051315-P03-E-D-M

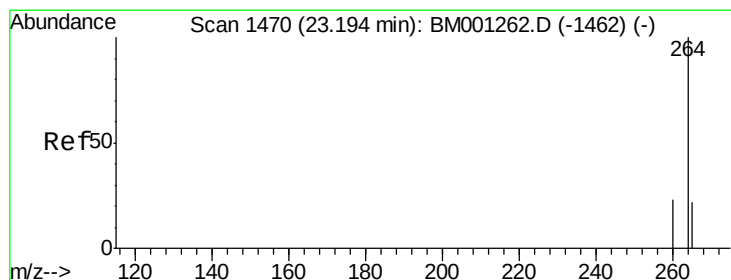
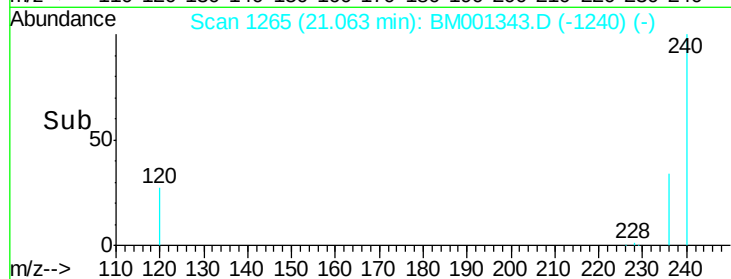
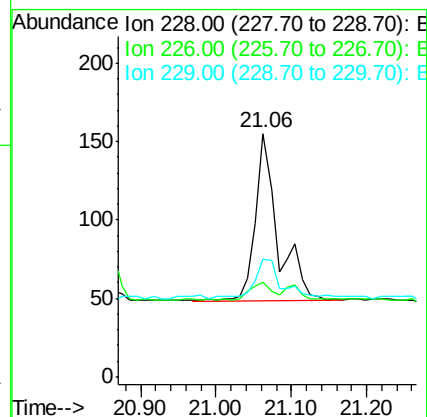
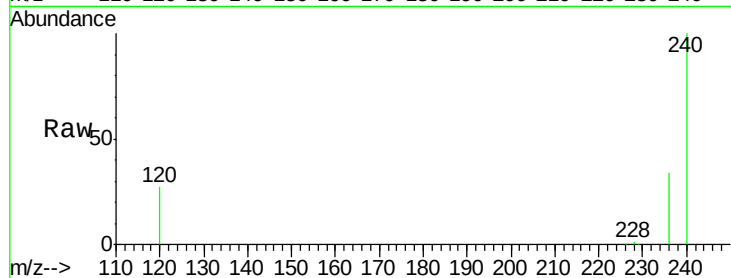
Tgt Ion:228 Resp: 221

Ion Ratio Lower Upper

228 100

226 38.7 22.2 33.2#

229 48.4 16.5 24.7#



#30

Perylene-d12

Concen: 5.00 ng

RT: 23.18 min Scan# 1468

Delta R.T. -0.01 min

Lab File: BM001343.D

Acq: 19 May 2015 11:29

Tgt Ion:264 Resp: 35523

Ion Ratio Lower Upper

264 100

260 26.0 18.9 28.3

265 20.9 18.1 27.1

