

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG072115\  
 Data File : BG018048.D  
 Acq On : 22 Jul 2015 7:55  
 Operator : TP/UM  
 Sample : G3027-06  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-05-3.5-4.0

Quant Time: Jul 22 08:26:05 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG071715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 22 04:14:54 2015  
 Response via : Initial Calibration

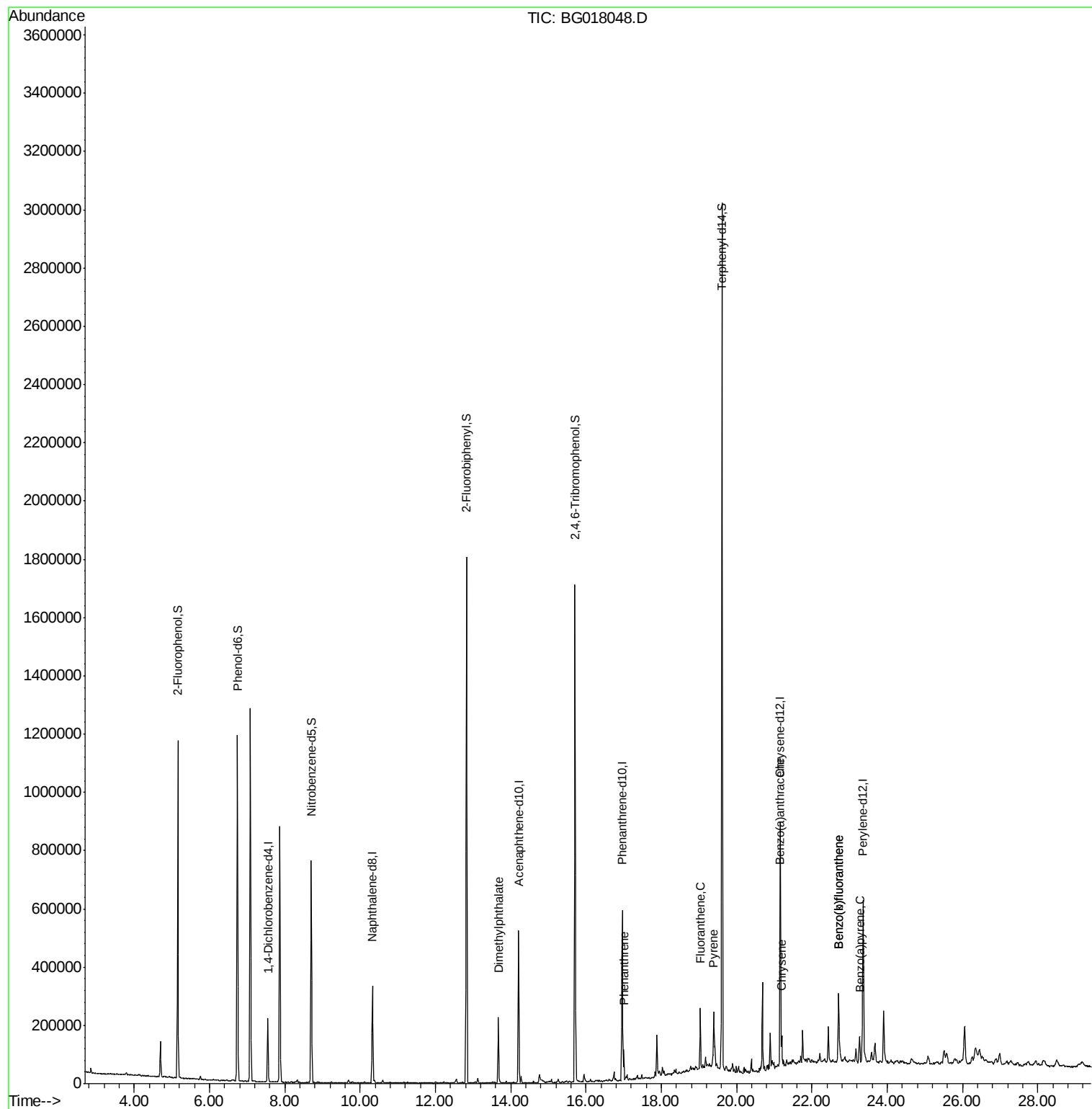
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min)   |
|-----------------------------|-------|------|----------|-----------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4   | 7.55  | 152  | 59251    | 20.00     | ng    | 0.00       |
| 21) Naphthalene-d8          | 10.33 | 136  | 283503   | 20.00     | ng    | 0.00       |
| 38) Acenaphthene-d10        | 14.21 | 164  | 176200   | 20.00     | ng    | 0.00       |
| 63) Phenanthrene-d10        | 16.97 | 188  | 349092   | 20.00     | ng    | 0.00       |
| 75) Chrysene-d12            | 21.17 | 240  | 376003   | 20.00     | ng    | 0.00       |
| 86) Perylene-d12            | 23.36 | 264  | 375657   | 20.00     | ng    | 0.00       |
| System Monitoring Compounds |       |      |          |           |       |            |
| 5) 2-Fluorophenol           | 5.16  | 112  | 509457   | 149.99    | ng    | 0.00       |
| 7) Phenol-d6                | 6.74  | 99   | 725473   | 163.03    | ng    | 0.00       |
| 23) Nitrobenzene-d5         | 8.70  | 82   | 435169   | 99.42     | ng    | 0.00       |
| 41) 2,4,6-Tribromophenol    | 15.71 | 330  | 310474   | 173.92    | ng    | 0.00       |
| 44) 2-Fluorobiphenyl        | 12.82 | 172  | 926195   | 91.09     | ng    | 0.00       |
| 78) Terphenyl-d14           | 19.62 | 244  | 1213780  | 81.32     | ng    | 0.00       |
| Target Compounds            |       |      |          |           |       |            |
| 32) Benzoic acid            | 9.55  | 122  | 119      | Below Cal |       | Qvalue # 1 |
| 49) Dimethylphthalate       | 13.68 | 163  | 149105   | 12.18     | ng    | 99         |
| 70) Phenanthrene            | 17.01 | 178  | 62399    | 3.47      | ng    | 94         |
| 74) Fluoranthene            | 19.04 | 202  | 113644   | 5.76      | ng    | 96         |
| 77) Pyrene                  | 19.40 | 202  | 105161   | 5.01      | ng    | 95         |
| 80) Benzo(a)anthracene      | 21.15 | 228  | 56833    | 2.86      | ng    | 97         |
| 82) Chrysene                | 21.20 | 228  | 52723    | 2.79      | ng    | 98         |
| 87) Benzo(b)fluoranthene    | 22.71 | 252  | 91009    | 4.43      | ng    | 96         |
| 88) Benzo(k)fluoranthene    | 22.71 | 252  | 91009    | 4.43      | ng    | 97         |
| 89) Benzo(a)pyrene          | 23.26 | 252  | 49067    | 2.56      | ng    | 98         |

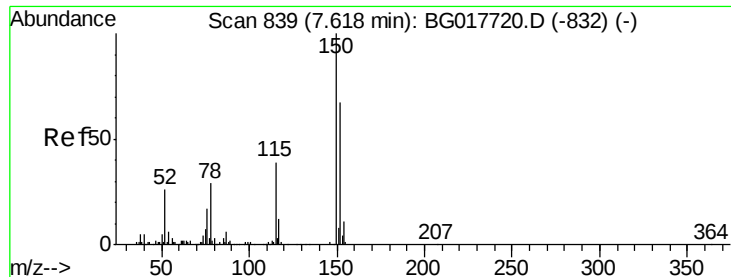
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG072115\  
Data File : BG018048.D  
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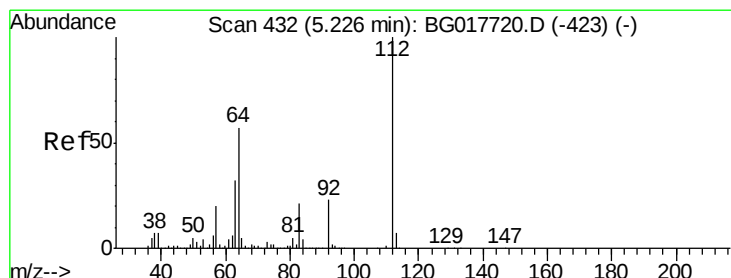
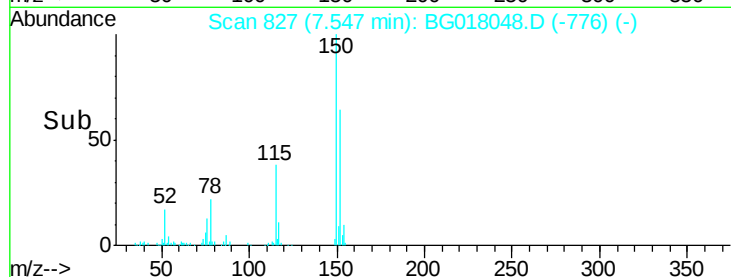
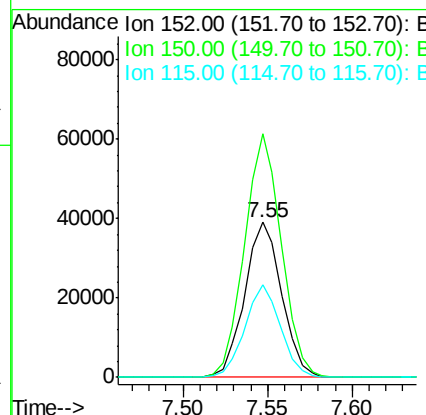
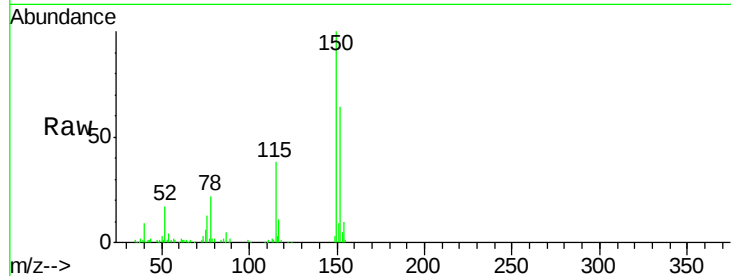


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.55 min Scan# 827  
Delta R.T. 0.00 min  
Lab File: BG018048.D  
Acq: 22 Jul 2015 7:55

Instrument :  
BNA\_G  
ClientSampleId :  
SB-05-3.5-4.0

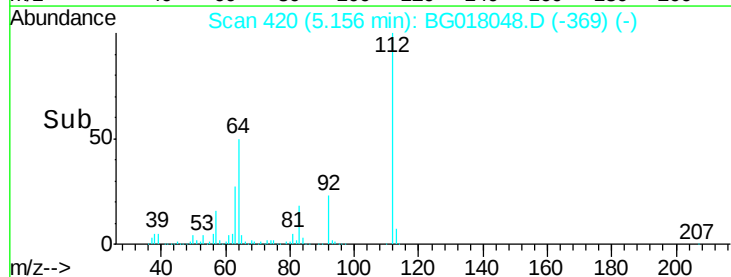
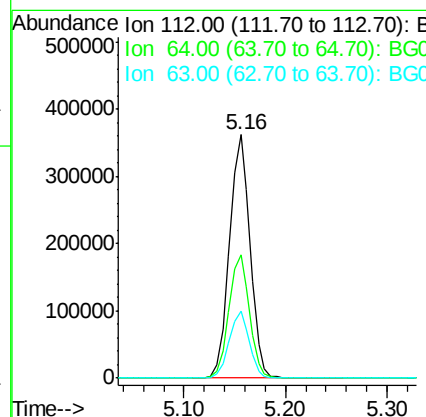
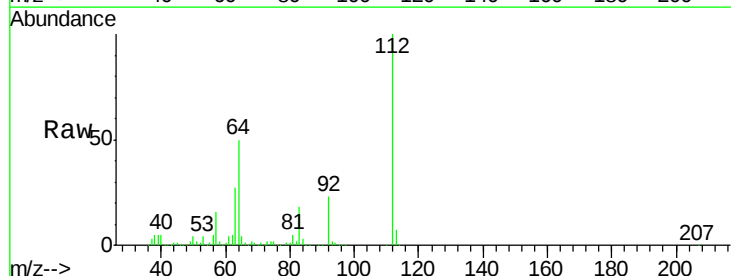
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.4 | 119.1 | 178.7 |
| 115     | 59.6  | 47.0  | 70.4  |

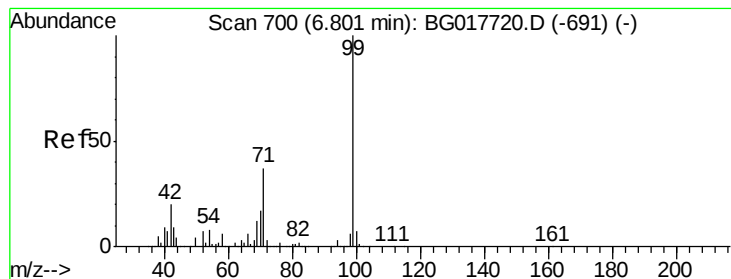


#5

2-Fluorophenol  
Concen: 149.99 ng  
RT: 5.16 min Scan# 420  
Delta R.T. 0.00 min  
Lab File: BG018048.D  
Acq: 22 Jul 2015 7:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 50.4  | 45.4  | 68.0  |
| 63      | 27.3  | 25.3  | 37.9  |





#7

Phenol-d6

Concen: 163.03 ng

RT: 6.74 min Scan# 689

Delta R.T. 0.00 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

Instrument :

BNA\_G

ClientSampleId :

SB-05-3.5-4.0

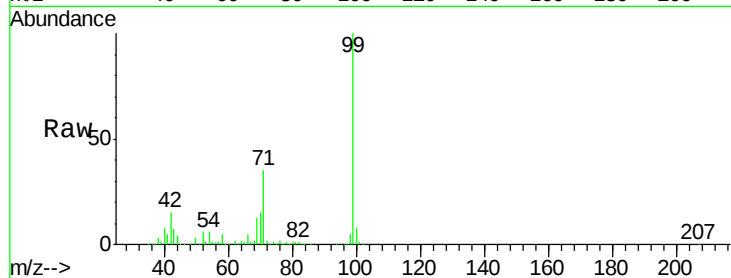
Tgt Ion: 99 Resp: 725473

Ion Ratio Lower Upper

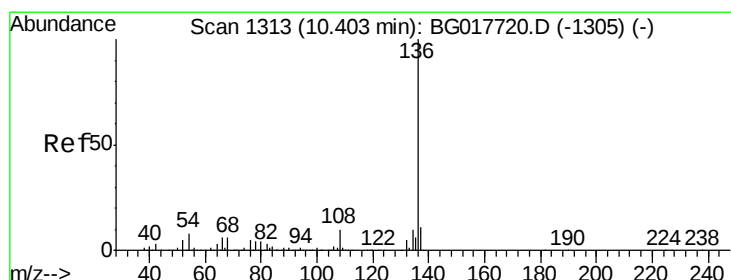
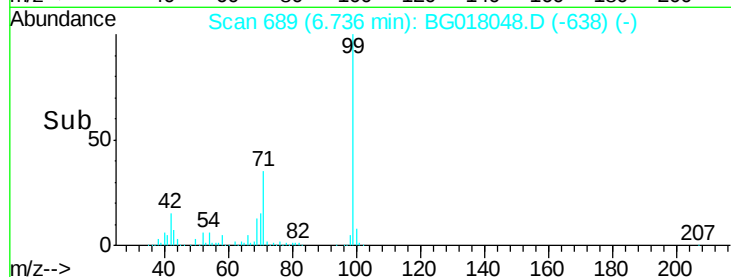
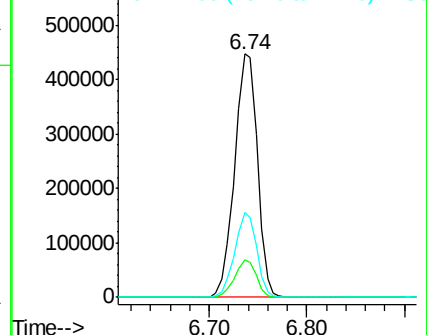
99 100

42 15.2 16.2 24.4#

71 35.0 29.5 44.3



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.33 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

Tgt Ion: 136 Resp: 283503

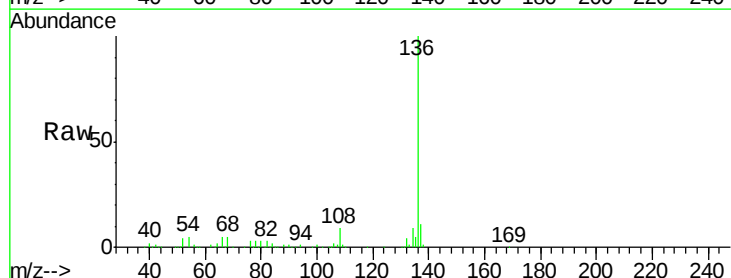
Ion Ratio Lower Upper

136 100

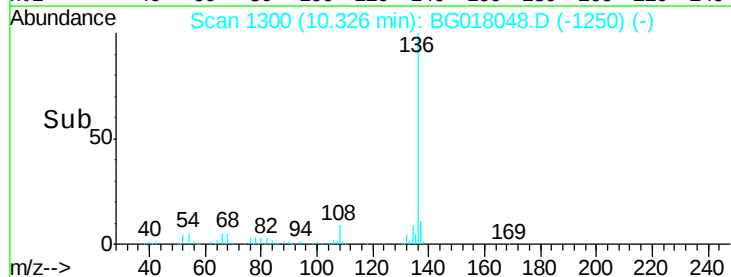
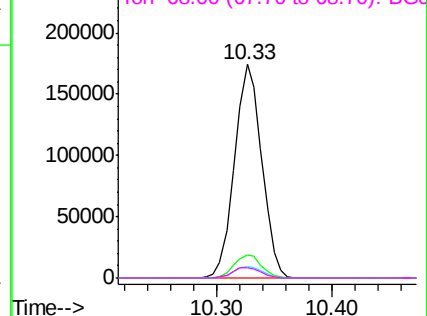
137 10.8 8.8 13.2

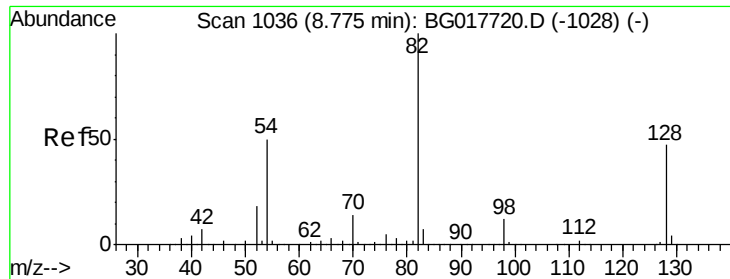
54 5.3 6.6 9.8#

68 4.5 5.1 7.7#



Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

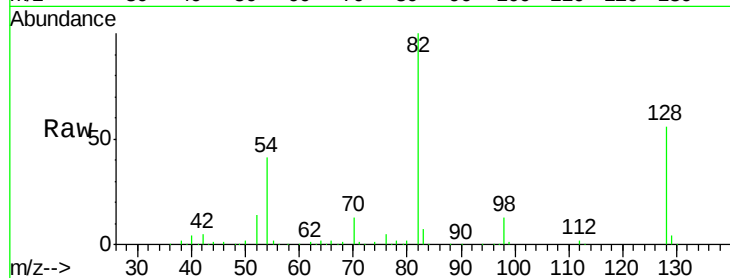




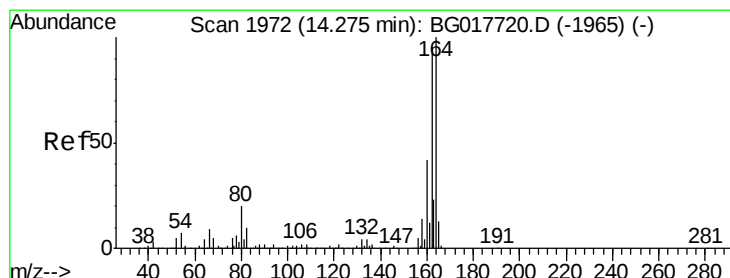
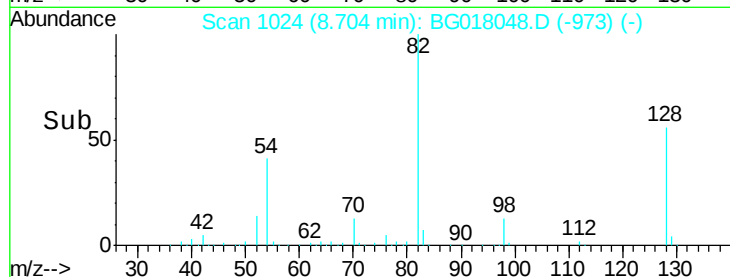
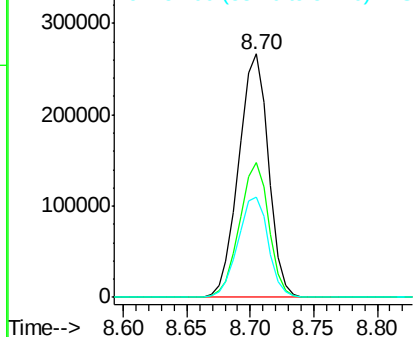
#23  
 Nitrobenzene-d5  
 Concen: 99.42 ng  
 RT: 8.70 min Scan# 1024  
 Delta R.T. 0.00 min  
 Lab File: BG018048.D  
 Acq: 22 Jul 2015 7:55

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-05-3.5-4.0

Tgt Ion: 82 Resp: 435169  
 Ion Ratio Lower Upper  
 82 100  
 128 55.6 37.8 56.6  
 54 41.4 39.9 59.9

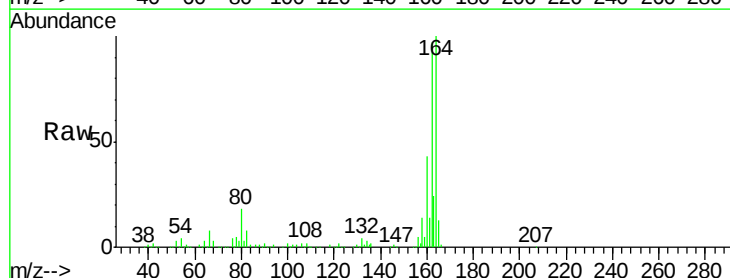


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

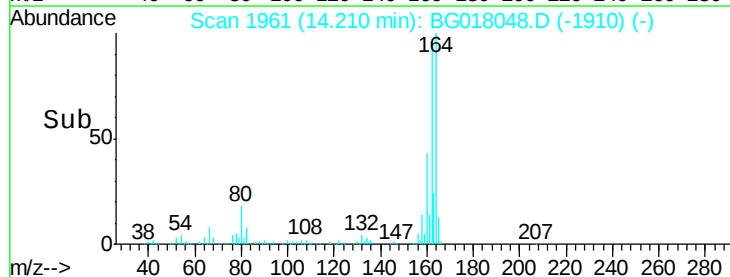
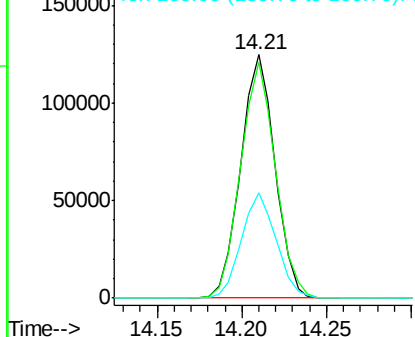


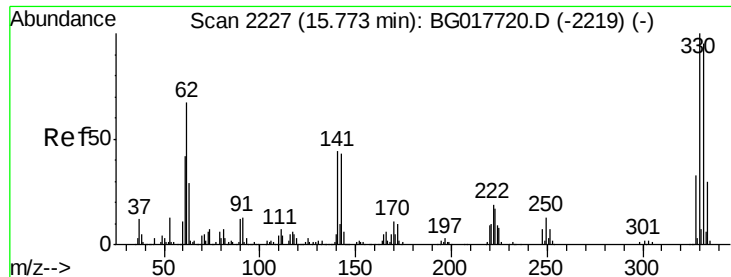
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.21 min Scan# 1961  
 Delta R.T. 0.00 min  
 Lab File: BG018048.D  
 Acq: 22 Jul 2015 7:55

Tgt Ion: 164 Resp: 176200  
 Ion Ratio Lower Upper  
 164 100  
 162 96.8 76.3 114.5  
 160 43.0 33.7 50.5



Abundance Ion 164.00 (163.70 to 164.70): BGC  
 Ion 162.00 (161.70 to 162.70): BGC  
 Ion 160.00 (159.70 to 160.70): BGC

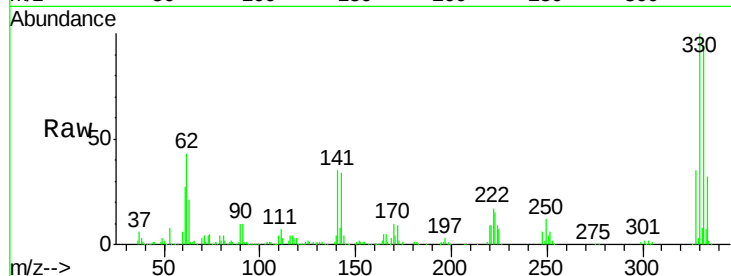




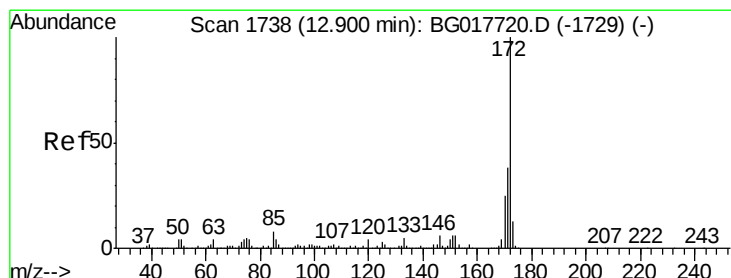
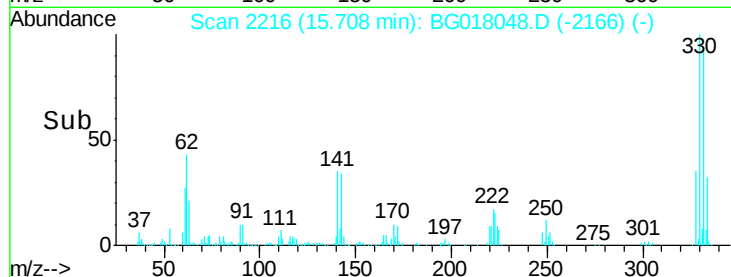
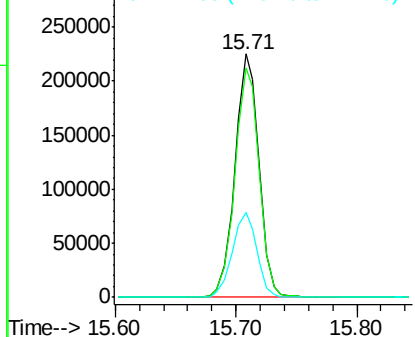
#41  
 2,4,6-Tribromophenol  
 Concen: 173.92 ng  
 RT: 15.71 min Scan# 2216  
 Delta R.T. -0.01 min  
 Lab File: BG018048.D  
 Acq: 22 Jul 2015 7:55

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-05-3.5-4.0

Tgt Ion:330 Resp: 310474  
 Ion Ratio Lower Upper  
 330 100  
 332 95.4 76.8 115.2  
 141 35.9 38.0 57.0#

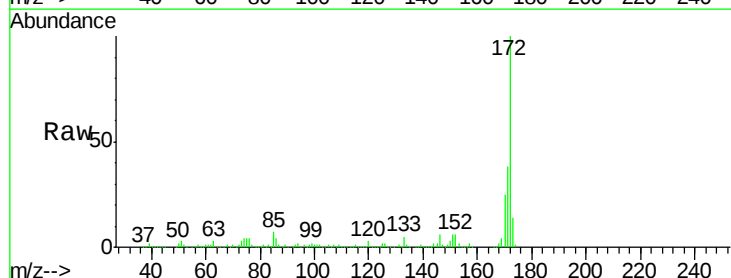


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

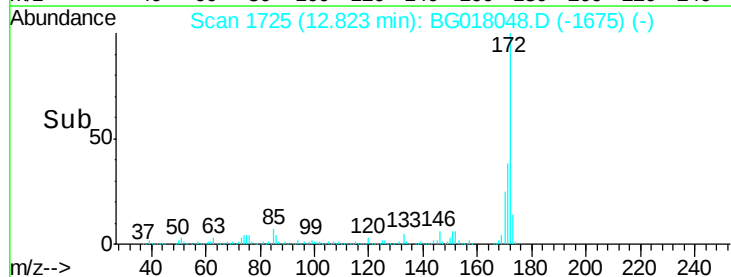
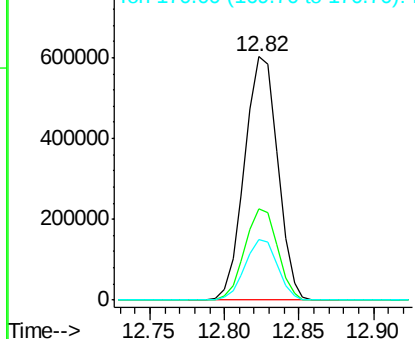


#44  
 2-Fluorobiphenyl  
 Concen: 91.09 ng  
 RT: 12.82 min Scan# 1725  
 Delta R.T. -0.01 min  
 Lab File: BG018048.D  
 Acq: 22 Jul 2015 7:55

Tgt Ion:172 Resp: 926195  
 Ion Ratio Lower Upper  
 172 100  
 171 37.7 30.7 46.1  
 170 24.8 19.7 29.5



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





#49

Dimethylphthalate

Concen: 12.18 ng

RT: 13.68 min Scan# 1870

Delta R.T. -0.01 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

Instrument :

BNA\_G

ClientSampleId :

SB-05-3.5-4.0

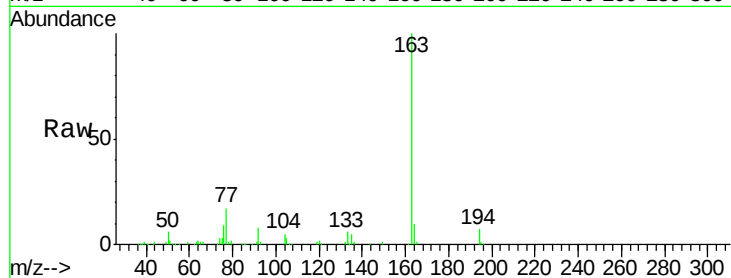
Tgt Ion:163 Resp: 149105

Ion Ratio Lower Upper

163 100

194 7.0 5.8 8.6

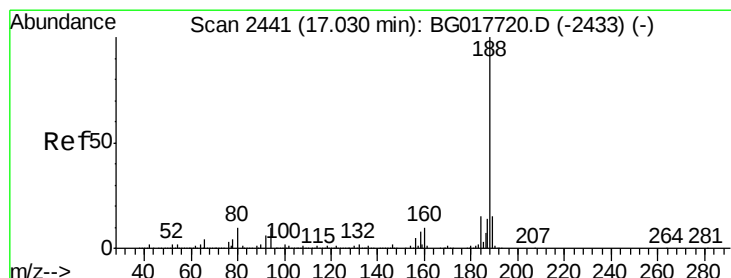
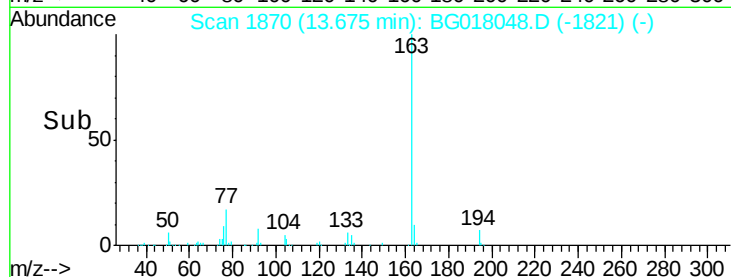
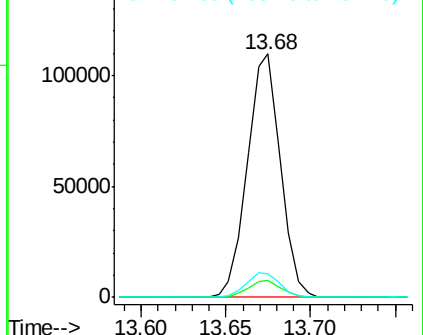
164 9.6 8.3 12.5



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 16.97 min Scan# 2430

Delta R.T. 0.00 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

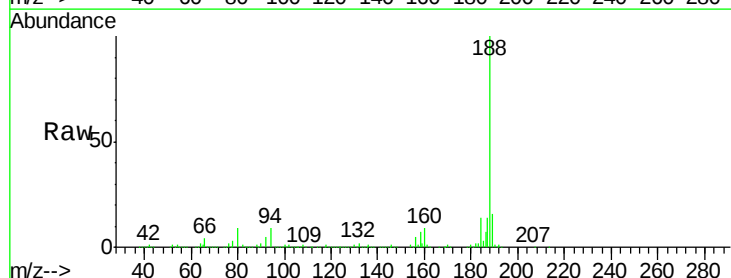
Tgt Ion:188 Resp: 349092

Ion Ratio Lower Upper

188 100

94 9.1 8.2 12.2

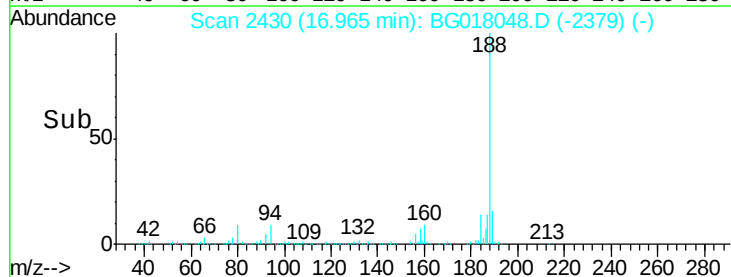
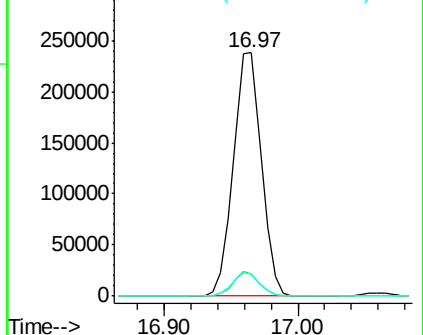
80 9.3 8.2 12.4

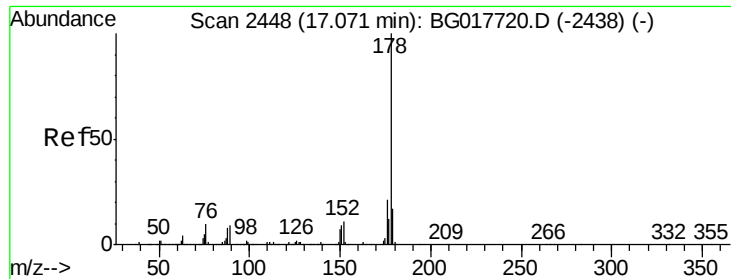


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG0

Ion 80.00 (79.70 to 80.70): BG0





#70

Phenanthrene

Concen: 3.47 ng

RT: 17.01 min Scan# 2437

Delta R.T. 0.00 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

Instrument :

BNA\_G

ClientSampleId :

SB-05-3.5-4.0

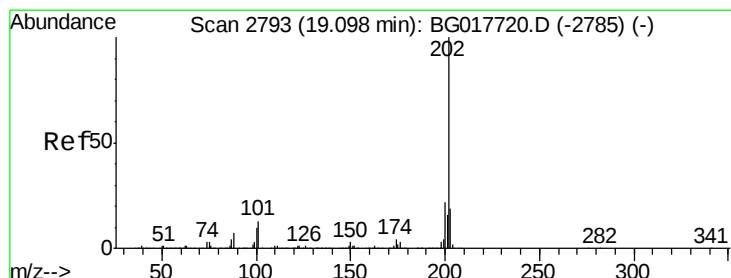
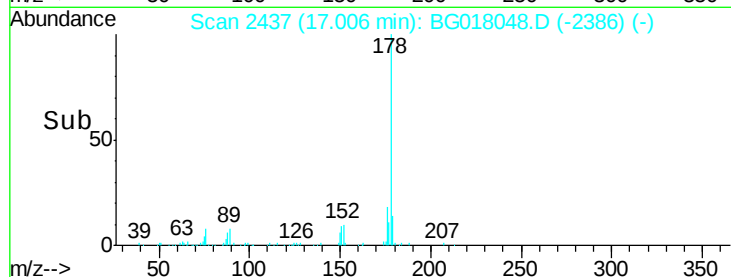
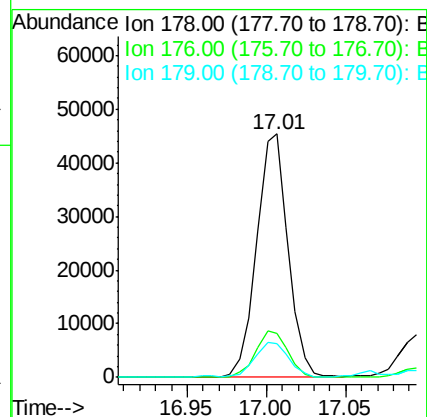
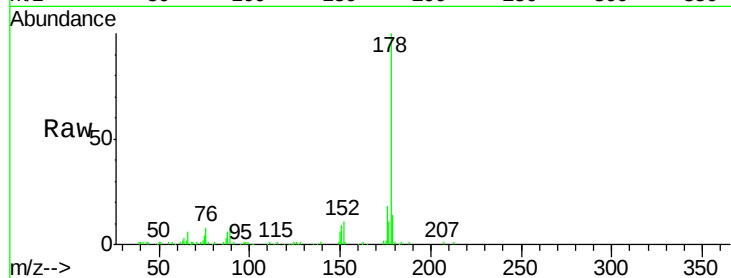
Tgt Ion:178 Resp: 62399

Ion Ratio Lower Upper

178 100

176 18.1 16.5 24.7

179 13.8 13.5 20.3



#74

Fluoranthene

Concen: 5.76 ng

RT: 19.04 min Scan# 2783

Delta R.T. 0.01 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

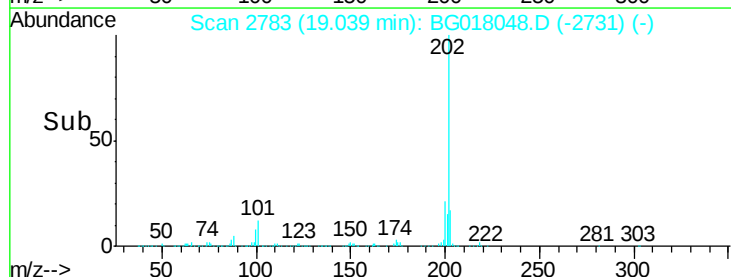
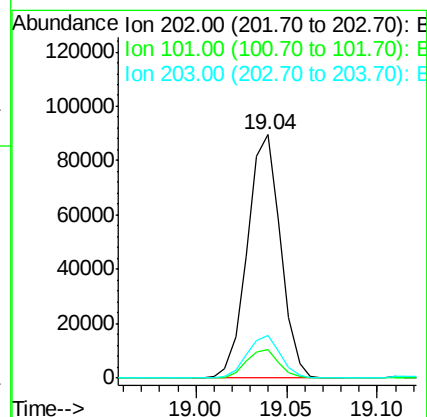
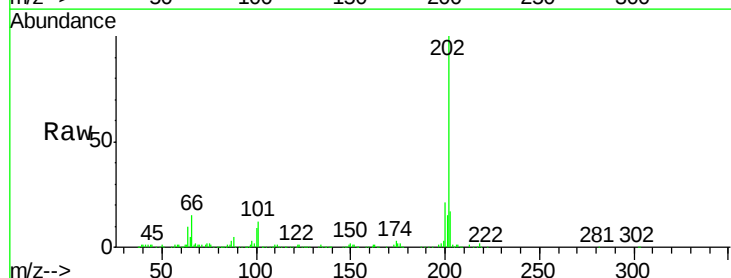
Tgt Ion:202 Resp: 113644

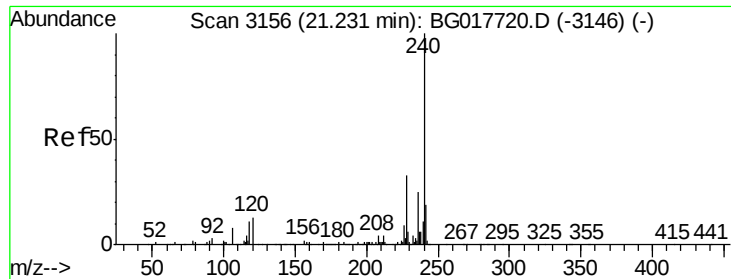
Ion Ratio Lower Upper

202 100

101 11.9 0.0 33.3

203 17.4 0.0 39.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.17 min Scan# 3145

Delta R.T. 0.00 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

Instrument :

BNA\_G

ClientSampleId :

SB-05-3.5-4.0

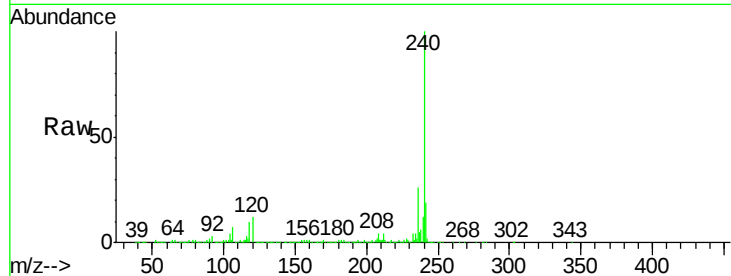
Tgt Ion:240 Resp: 376003

Ion Ratio Lower Upper

240 100

120 11.5 10.8 16.2

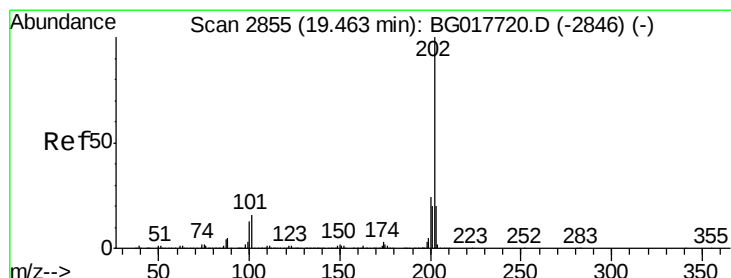
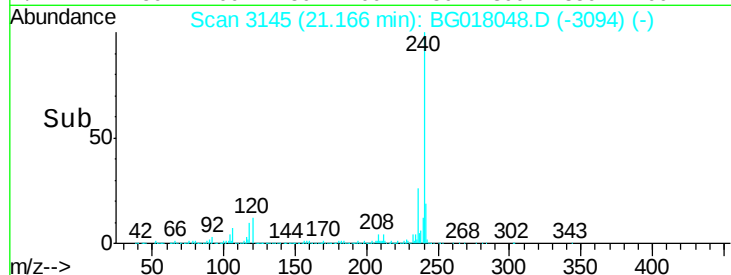
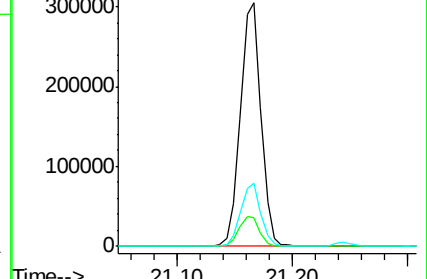
236 25.9 20.0 30.0



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



#77

Pyrene

Concen: 5.01 ng

RT: 19.40 min Scan# 2844

Delta R.T. 0.00 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

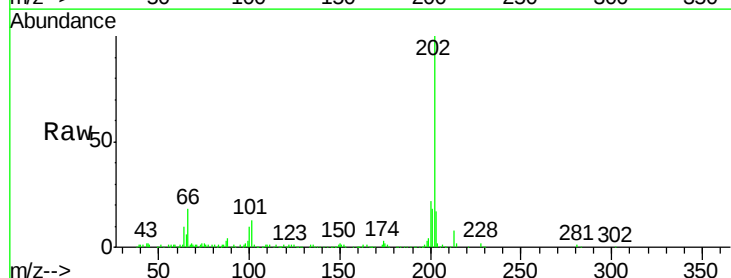
Tgt Ion:202 Resp: 105161

Ion Ratio Lower Upper

202 100

200 21.5 18.8 28.2

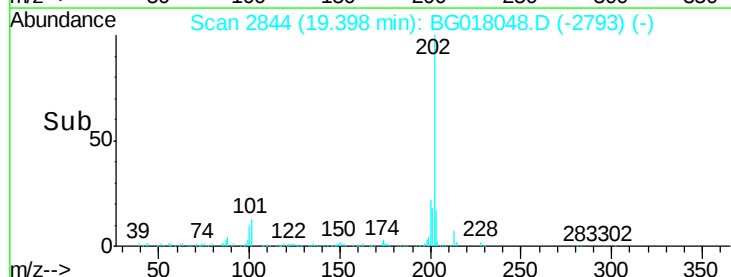
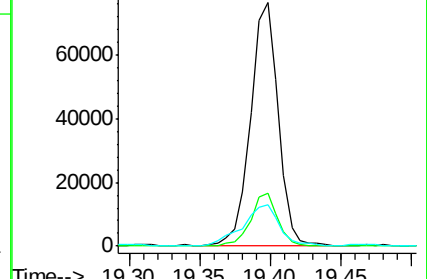
203 16.9 15.9 23.9

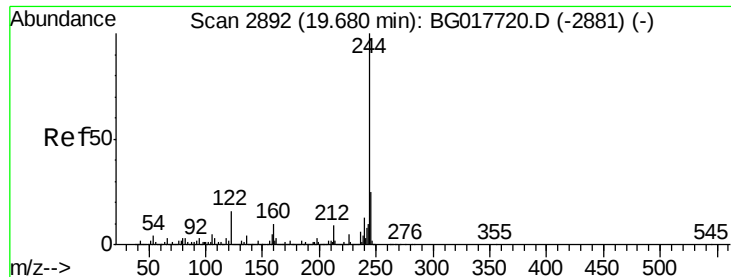


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 81.32 ng

RT: 19.62 min Scan# 2881

Delta R.T. 0.00 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

Instrument :

BNA\_G

ClientSampleId :

SB-05-3.5-4.0

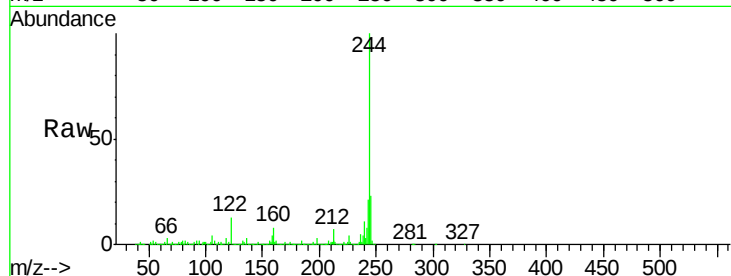
Tgt Ion:244 Resp: 1213780

Ion Ratio Lower Upper

244 100

212 7.5 7.2 10.8

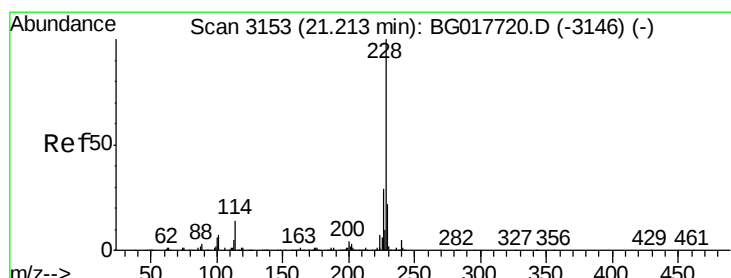
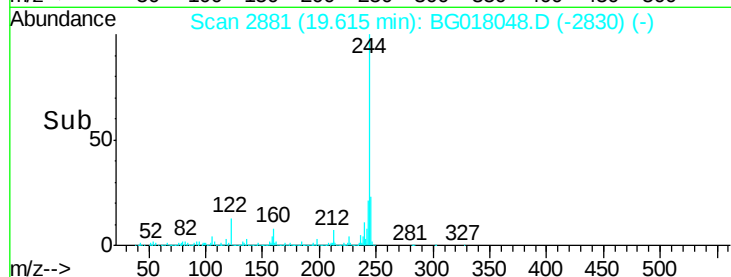
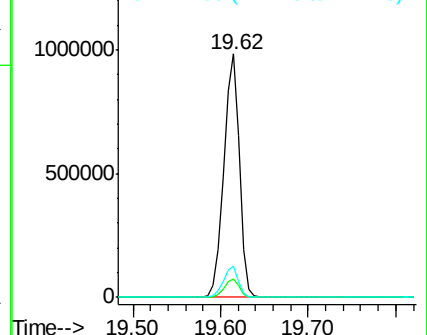
122 12.7 12.8 19.2#



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



#80

Benzo(a)anthracene

Concen: 2.86 ng

RT: 21.15 min Scan# 3142

Delta R.T. -0.01 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

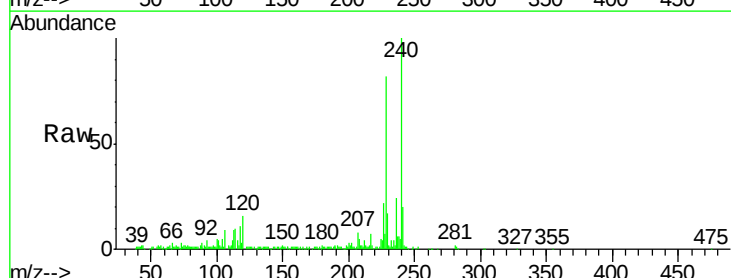
Tgt Ion:228 Resp: 56833

Ion Ratio Lower Upper

228 100

226 27.0 23.1 34.7

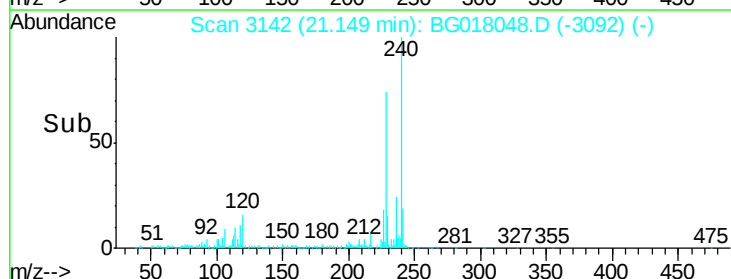
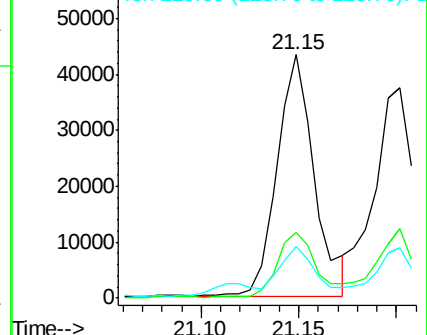
229 21.1 17.4 26.0

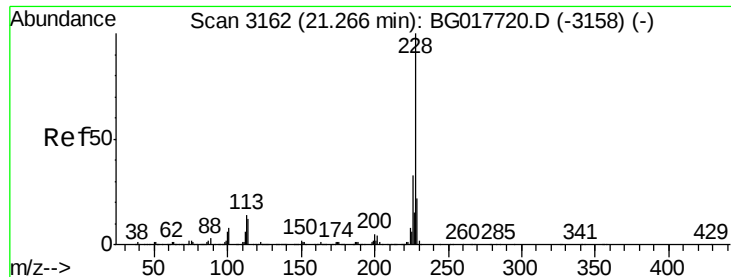


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 2.79 ng

RT: 21.20 min Scan# 3151

Delta R.T. -0.01 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

Instrument :

BNA\_G

ClientSampleId :

SB-05-3.5-4.0

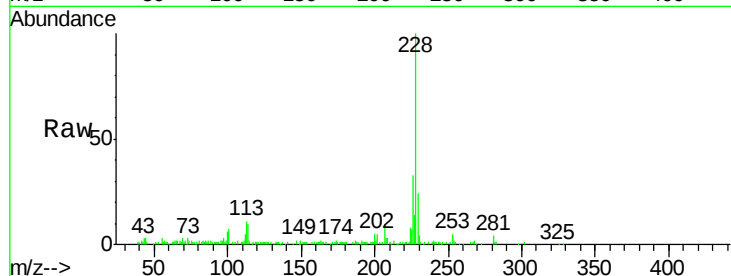
Tgt Ion: 228 Resp: 52723

Ion Ratio Lower Upper

228 100

226 32.9 26.1 39.1

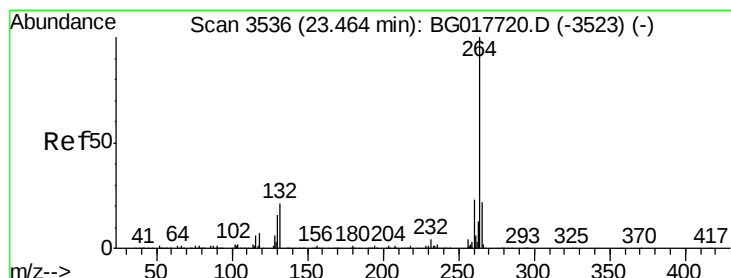
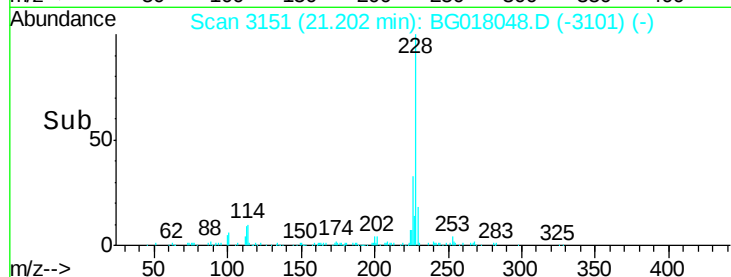
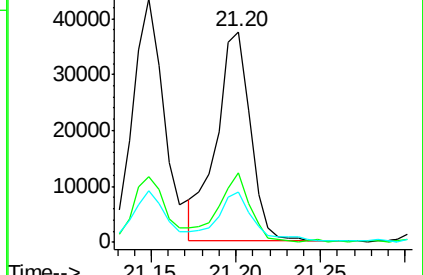
229 24.1 17.7 26.5



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 23.36 min Scan# 3519

Delta R.T. -0.01 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

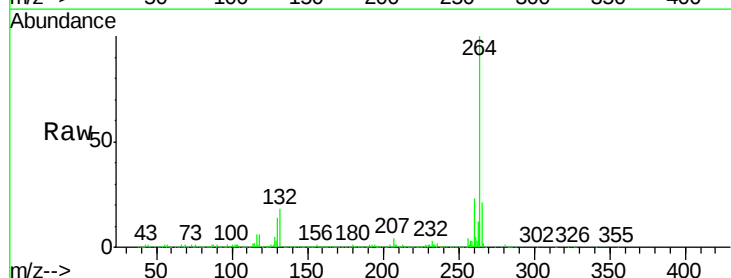
Tgt Ion: 264 Resp: 375657

Ion Ratio Lower Upper

264 100

260 23.2 18.6 27.8

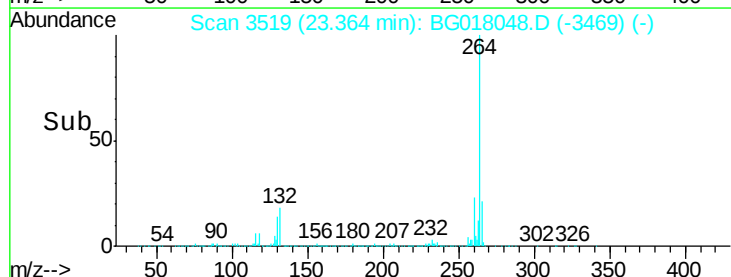
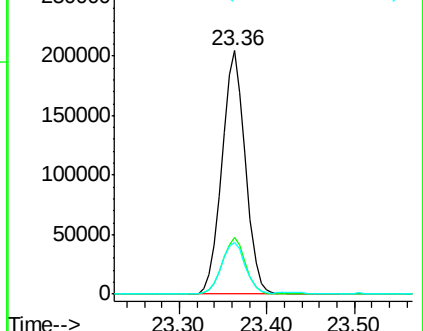
265 21.2 18.2 27.2

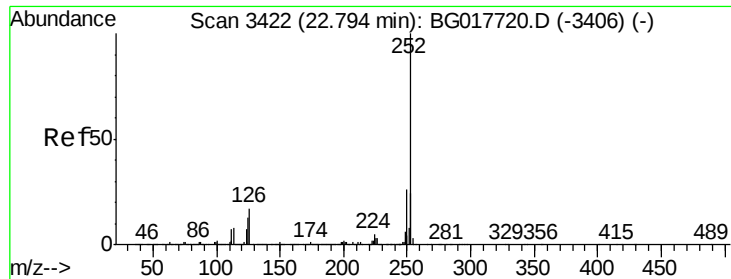


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 4.43 ng

RT: 22.71 min Scan# 3407

Delta R.T. -0.01 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

Instrument :

BNA\_G

ClientSampleId :

SB-05-3.5-4.0

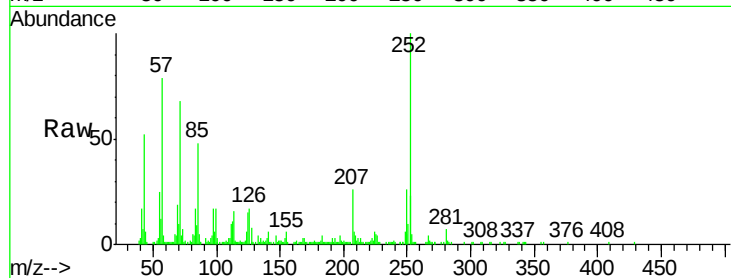
Tgt Ion:252 Resp: 91009

Ion Ratio Lower Upper

252 100

253 22.9 19.7 29.5

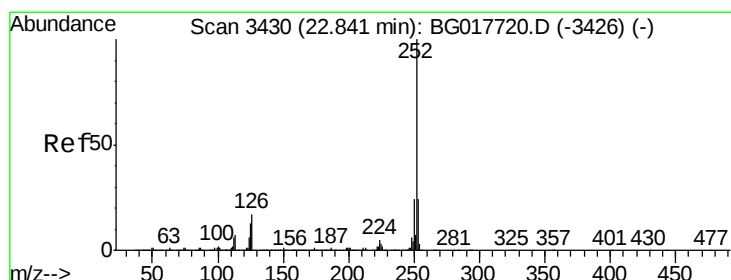
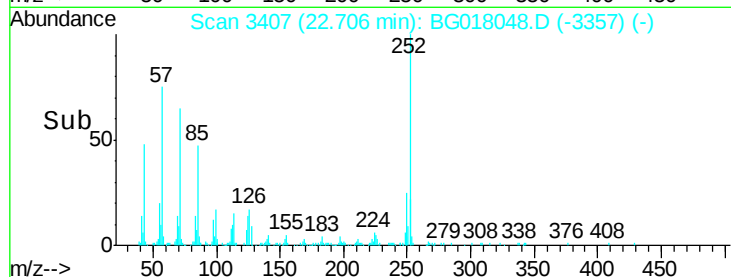
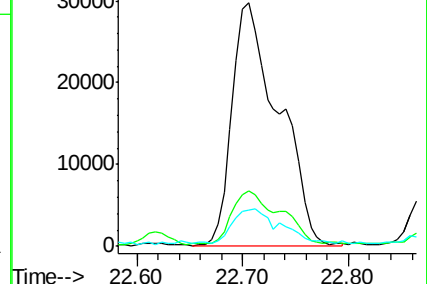
125 15.1 10.6 15.8



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



#88

Benzo(k)fluoranthene

Concen: 4.43 ng

RT: 22.71 min Scan# 3407

Delta R.T. -0.05 min

Lab File: BG018048.D

Acq: 22 Jul 2015 7:55

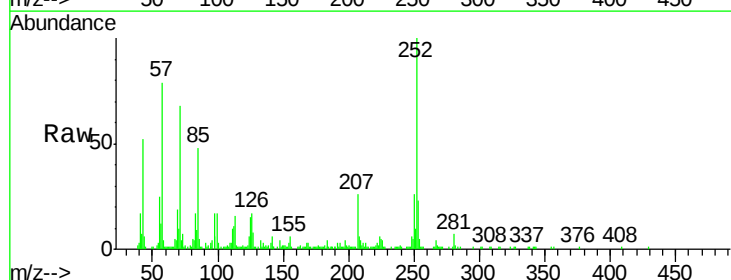
Tgt Ion:252 Resp: 91009

Ion Ratio Lower Upper

252 100

253 22.9 19.0 28.6

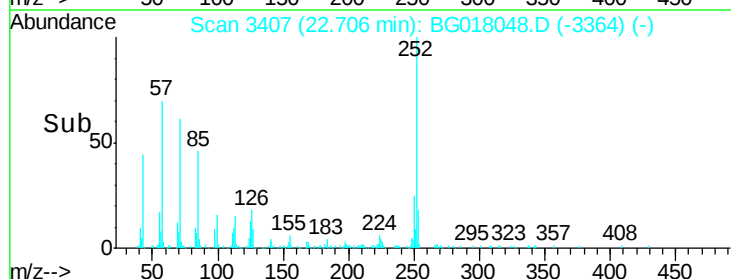
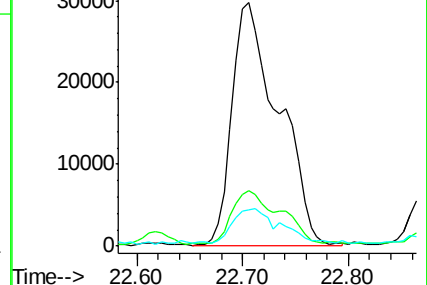
125 15.1 10.3 15.5

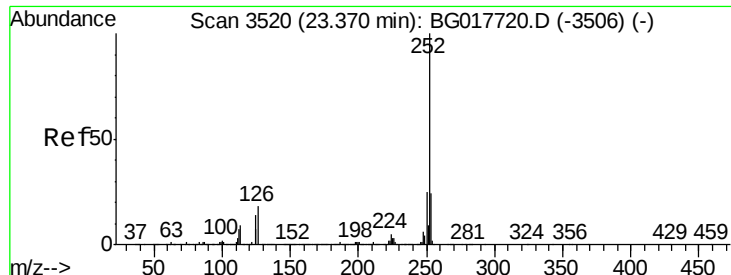


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 2.56 ng

RT: 23.26 min Scan# 3502

Delta R.T. -0.01 min

Lab File: BG018048.D

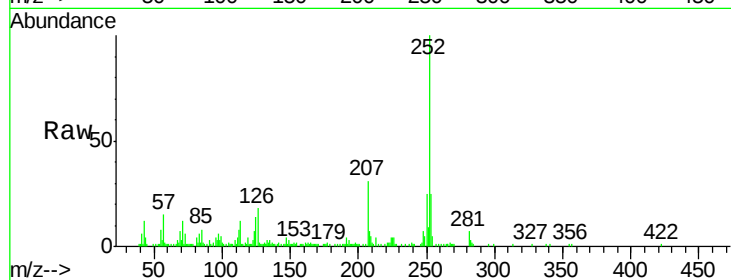
Acq: 22 Jul 2015 7:55

Instrument :

BNA\_G

ClientSampleId :

SB-05-3.5-4.0



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 49067 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.2  | 19.0  | 28.6  |
| 125       | 14.1  | 11.1  | 16.7  |

