

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG070615\  
 Data File : BG017781.D  
 Acq On : 6 Jul 2015 22:30  
 Operator : TP/UM  
 Sample : G2860-13  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 G93J8

Quant Time: Jul 07 01:53:32 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG070615.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jul 07 01:50:10 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.61  | 152  | 100066   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.38 | 136  | 476828   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.26 | 164  | 301371   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.01 | 188  | 622353   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.21 | 240  | 632190   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.43 | 264  | 634284   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.14  | 96  | 7877   | 3.11  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.78  | 99  | 171666 | 20.32 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.95  | 67  | 109265 | 21.58 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.14  | 132 | 144757 | 20.02 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.31  | 113 | 147237 | 21.30 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.76  | 128 | 72950  | 20.45 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.47  | 143 | 71772  | 20.14 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.00 | 165 | 134414 | 19.76 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.53 | 131 | 194548 | 21.05 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.67 | 166 | 383337 | 19.22 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.94 | 160 | 477967 | 17.78 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.46 | 143 | 68709  | 17.17 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.26 | 176 | 339627 | 16.69 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.38 | 200 | 24987  | 8.66  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.11 | 188 | 473929 | 16.71 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.41 | 212 | 452292 | 15.05 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.29 | 264 | 382578 | 13.70 | ng/ul | 0.01 |

## Target Compounds

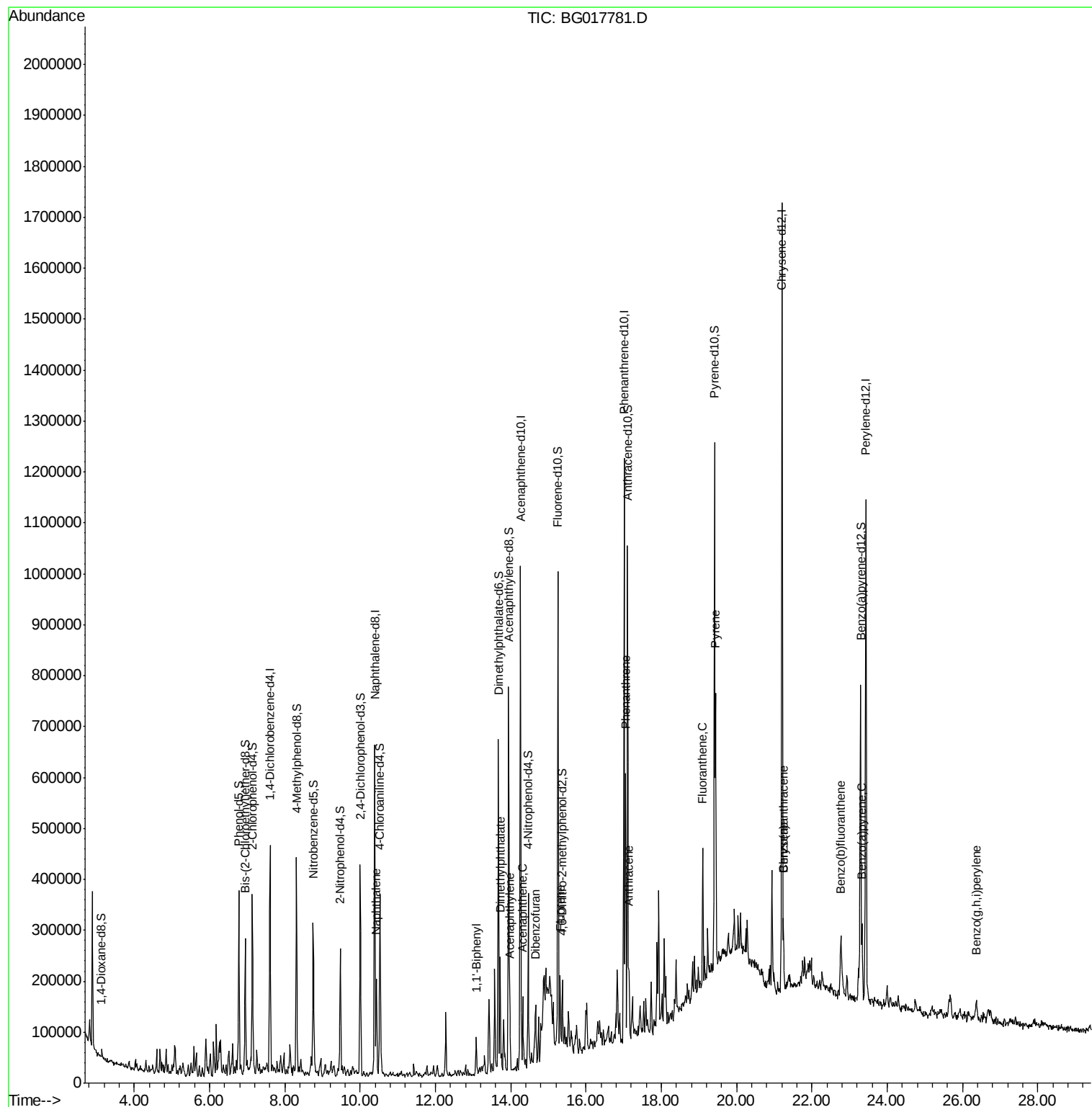
|                          |       |     |        |      |        | Qvalue |
|--------------------------|-------|-----|--------|------|--------|--------|
| 28) Naphthalene          | 10.43 | 128 | 136543 | 5.53 | ng/ul  | 100    |
| 40) 1,1'-Biphenyl        | 13.08 | 154 | 31808  | 1.43 | ng/ul  | 95     |
| 44) Dimethylphthalate    | 13.72 | 163 | 125911 | 5.68 | ng/ul  | 100    |
| 47) Acenaphthylene       | 13.97 | 152 | 33445  | 1.14 | ng/ul# | 93     |
| 49) Acenaphthene         | 14.32 | 153 | 51157  | 2.58 | ng/ul  | 97     |
| 53) Dibenzofuran         | 14.66 | 168 | 27728  | 1.04 | ng/ul  | 93     |
| 58) Fluorene             | 15.31 | 166 | 58192  | 2.45 | ng/ul# | 96     |
| 69) Phenanthrene         | 17.05 | 178 | 293328 | 8.62 | ng/ul  | 98     |
| 71) Anthracene           | 17.14 | 178 | 93557  | 2.67 | ng/ul  | 97     |
| 76) Fluoranthene         | 19.10 | 202 | 148645 | 4.54 | ng/ul  | 99     |
| 79) Pyrene               | 19.44 | 202 | 269778 | 6.99 | ng/ul  | 98     |
| 82) Benzo(a)anthracene   | 21.24 | 228 | 71289  | 2.05 | ng/ul  | 94     |
| 84) Chrysene             | 21.24 | 228 | 71371  | 2.16 | ng/ul  | 99     |
| 87) Benzo(b)fluoranthene | 22.76 | 252 | 61317  | 1.69 | ng/ul# | 90     |
| 90) Benzo(a)pyrene       | 23.33 | 252 | 84072  | 2.44 | ng/ul  | 93     |
| 93) Benzo(g,h,i)perylene | 26.37 | 276 | 37652  | 1.20 | ng/ul  | 98     |

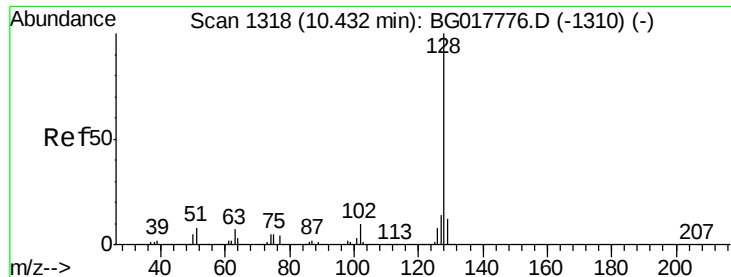
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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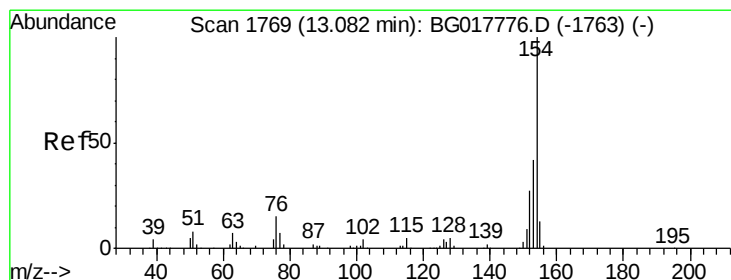
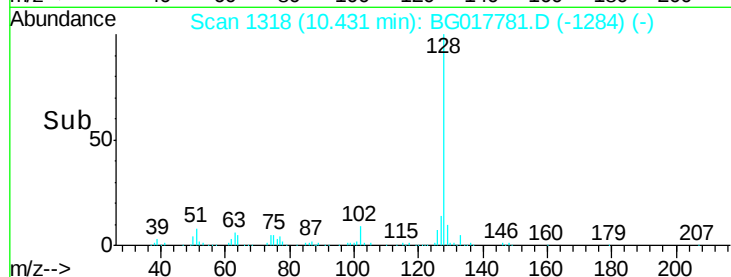
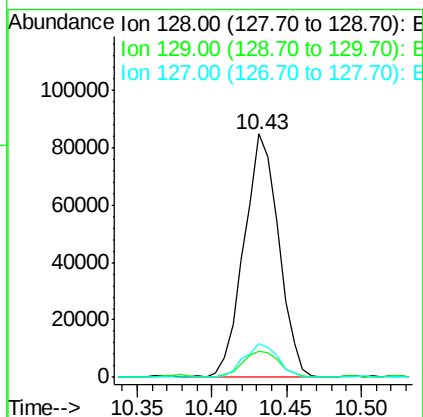
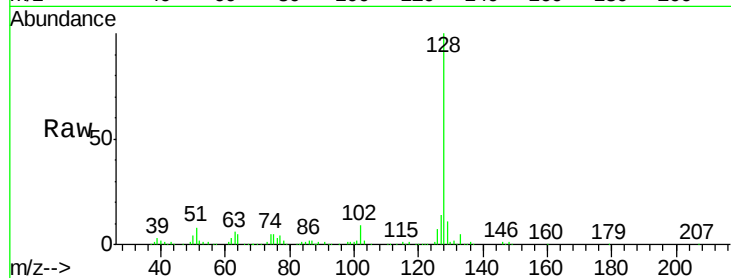




#28  
Naphthalene  
Concen: 5.53 ng/ul  
RT: 10.43 min Scan# 1318  
Delta R.T. -0.00 min  
Lab File: BG017781.D  
Acq: 6 Jul 2015 22:30

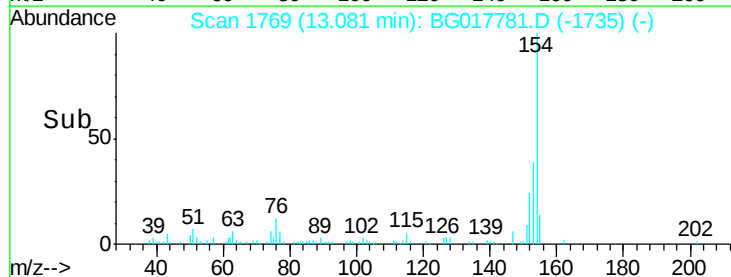
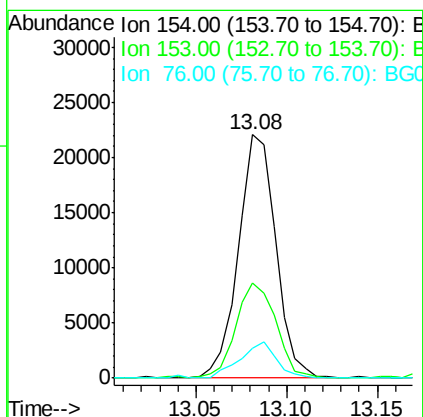
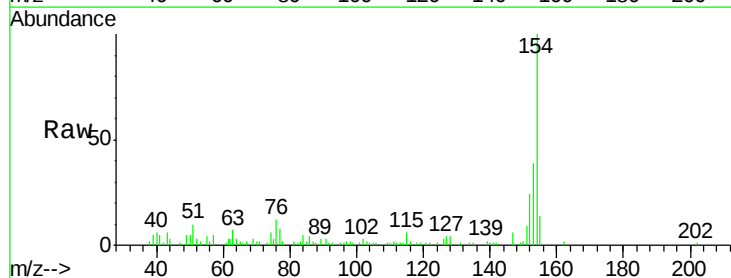
Instrument :  
BNA\_G  
ClientSampleId :  
G93J8

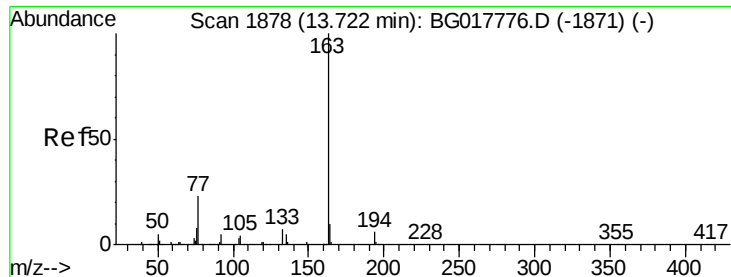
Tgt Ion:128 Resp: 136543  
Ion Ratio Lower Upper  
128 100  
129 10.8 8.7 13.1  
127 13.6 11.0 16.6



#40  
1,1'-Biphenyl  
Concen: 1.43 ng/ul  
RT: 13.08 min Scan# 1769  
Delta R.T. -0.00 min  
Lab File: BG017781.D  
Acq: 6 Jul 2015 22:30

Tgt Ion:154 Resp: 31808  
Ion Ratio Lower Upper  
154 100  
153 39.2 33.3 49.9  
76 12.4 12.4 18.6





#44

Dimethylphthalate

Concen: 5.68 ng/ul

RT: 13.72 min Scan# 1878

Delta R.T. -0.00 min

Lab File: BG017781.D

Acq: 6 Jul 2015 22:30

Instrument :

BNA\_G

ClientSampleId :

G93J8

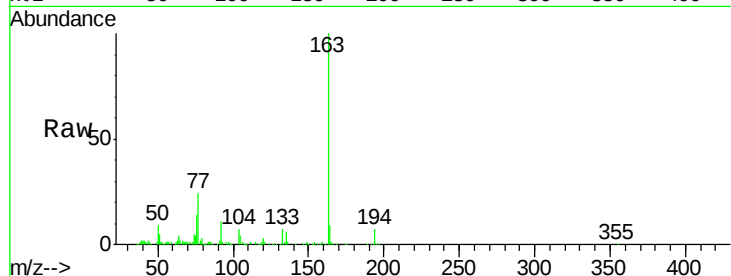
Tgt Ion:163 Resp: 125911

Ion Ratio Lower Upper

163 100

194 6.7 5.4 8.0

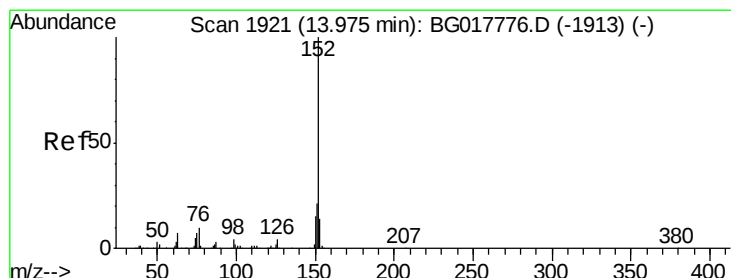
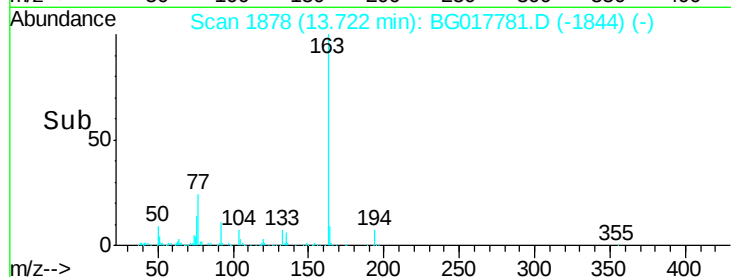
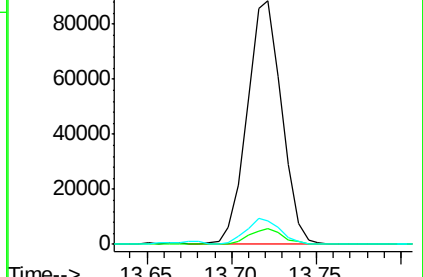
164 9.5 7.7 11.5



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



#47

Acenaphthylene

Concen: 1.14 ng/ul

RT: 13.97 min Scan# 1921

Delta R.T. -0.00 min

Lab File: BG017781.D

Acq: 6 Jul 2015 22:30

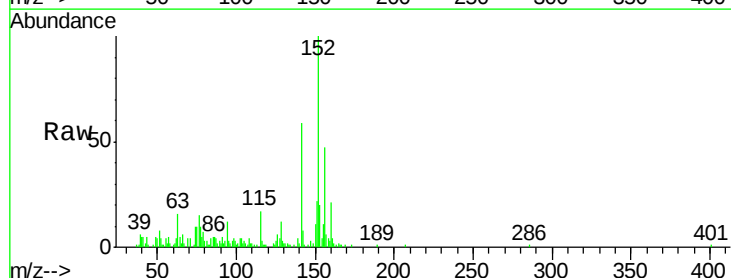
Tgt Ion:152 Resp: 33445

Ion Ratio Lower Upper

152 100

151 22.4 17.0 25.6

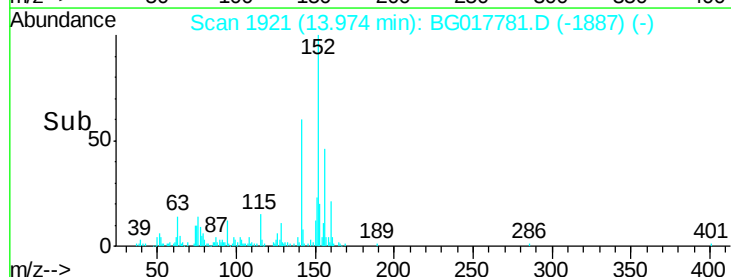
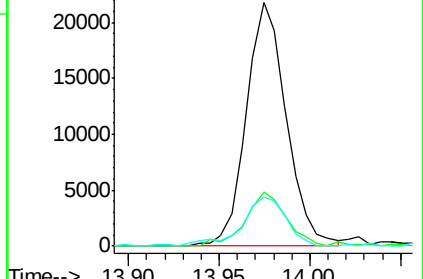
153 20.1 11.2 16.8#

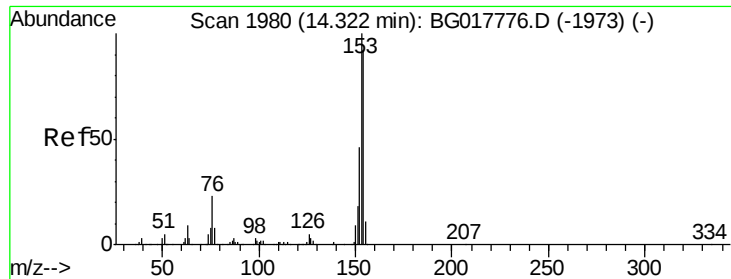


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 2.58 ng/ul

RT: 14.32 min Scan# 1980

Delta R.T. -0.00 min

Lab File: BG017781.D

Acq: 6 Jul 2015 22:30

Instrument :

BNA\_G

ClientSampleId :

G93J8

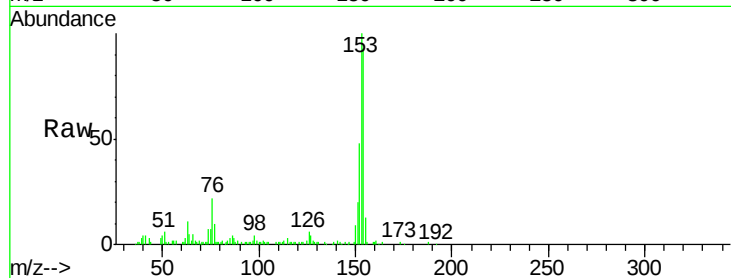
Tgt Ion:153 Resp: 51157

Ion Ratio Lower Upper

153 100

152 47.8 37.8 56.6

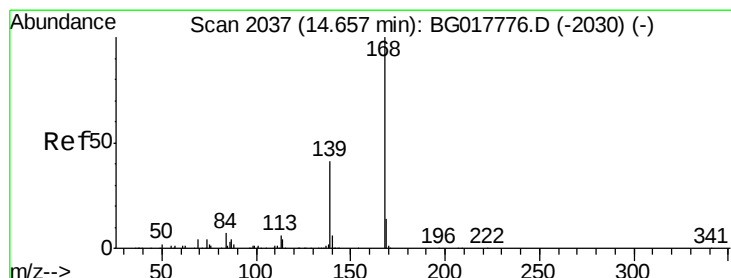
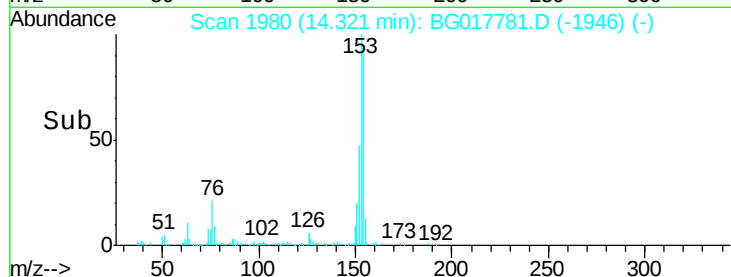
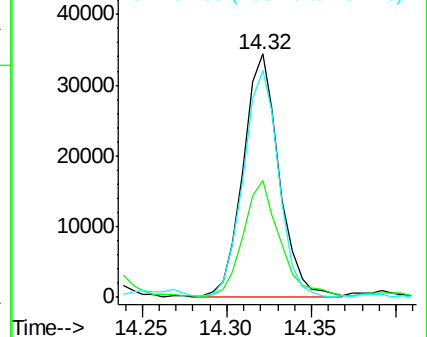
154 93.4 71.2 106.8



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 1.04 ng/ul

RT: 14.66 min Scan# 2037

Delta R.T. -0.00 min

Lab File: BG017781.D

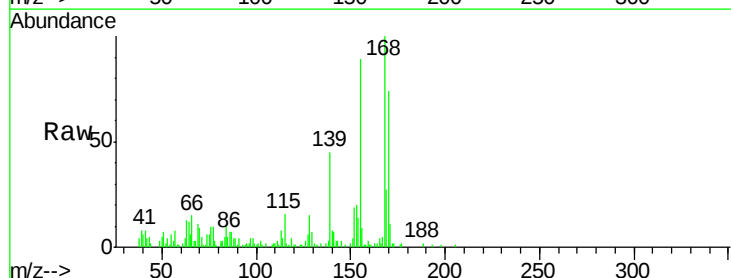
Acq: 6 Jul 2015 22:30

Tgt Ion:168 Resp: 27728

Ion Ratio Lower Upper

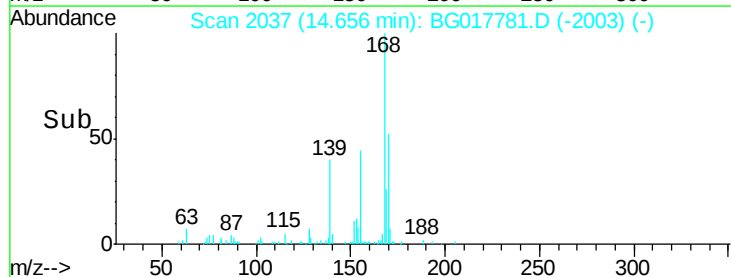
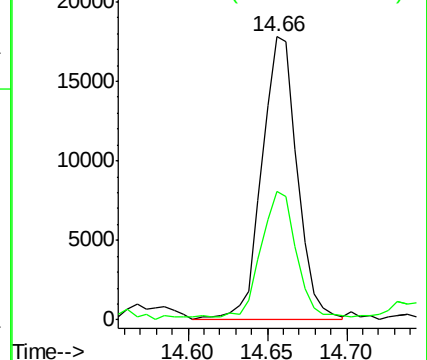
168 100

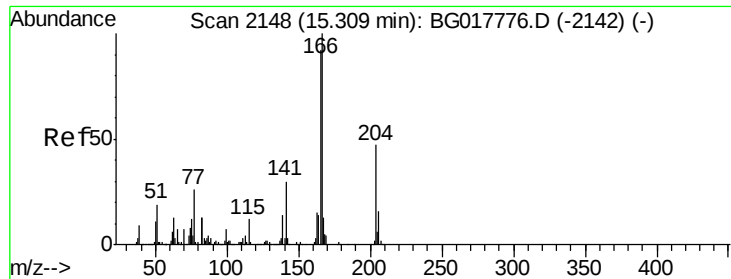
139 45.2 32.7 49.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 2.45 ng/ul

RT: 15.31 min Scan# 2148

Delta R.T. -0.00 min

Lab File: BG017781.D

Acq: 6 Jul 2015 22:30

Instrument :

BNA\_G

ClientSampleId :

G93J8

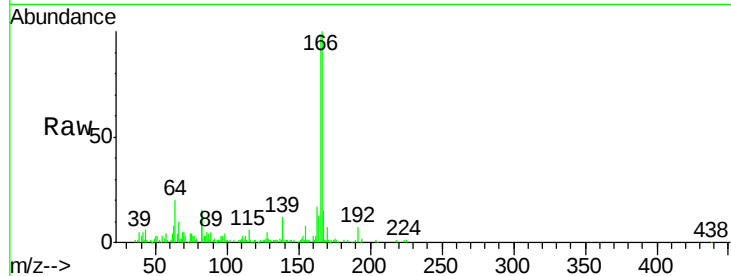
Tgt Ion:166 Resp: 58192

Ion Ratio Lower Upper

166 100

165 98.3 75.7 113.5

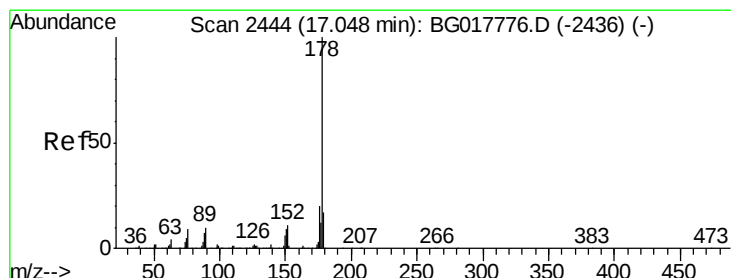
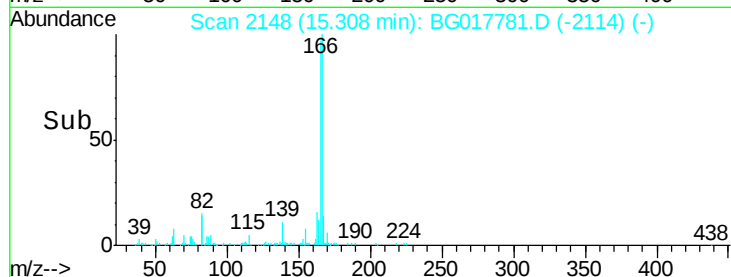
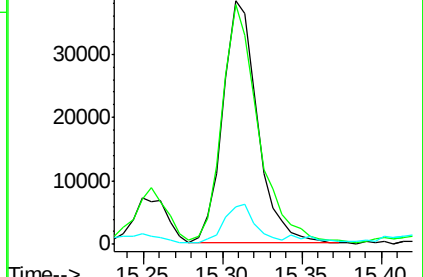
167 15.2 10.1 15.1#



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



#69

Phenanthrene

Concen: 8.62 ng/ul

RT: 17.05 min Scan# 2445

Delta R.T. 0.01 min

Lab File: BG017781.D

Acq: 6 Jul 2015 22:30

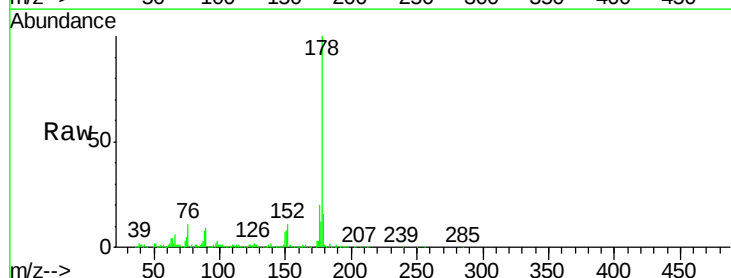
Tgt Ion:178 Resp: 293328

Ion Ratio Lower Upper

178 100

179 15.9 13.0 19.4

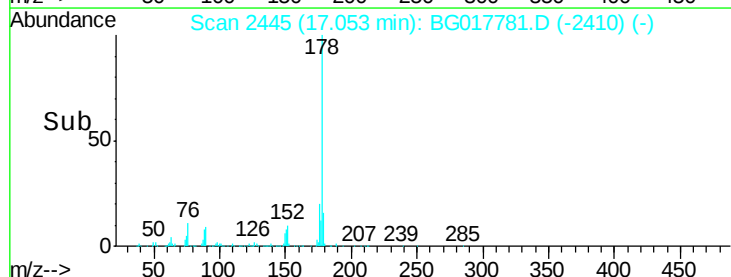
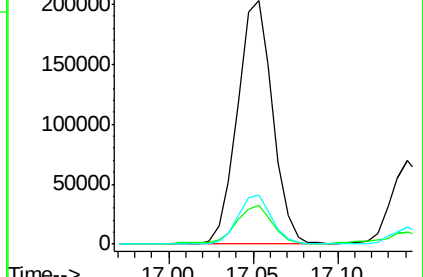
176 20.2 17.0 25.4

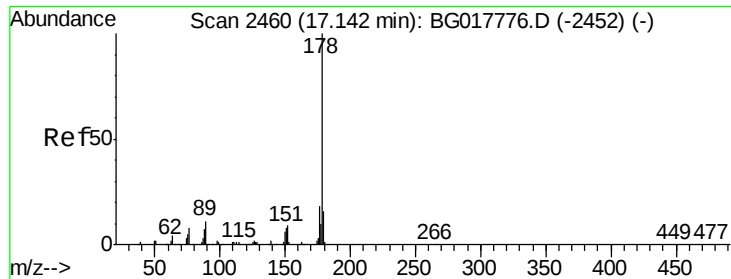


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 2.67 ng/ul

RT: 17.14 min Scan# 2460

Delta R.T. -0.00 min

Lab File: BG017781.D

Acq: 6 Jul 2015 22:30

Instrument :

BNA\_G

ClientSampleId :

G93J8

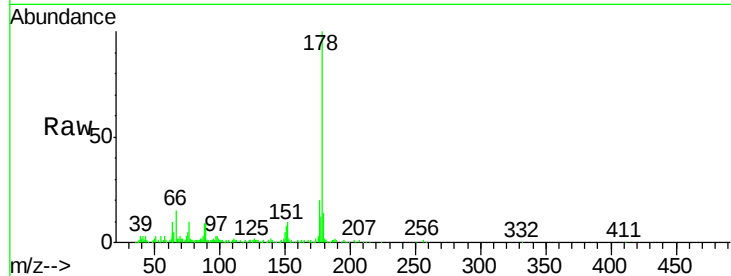
Tgt Ion:178 Resp: 93557

Ion Ratio Lower Upper

178 100

179 13.7 12.4 18.6

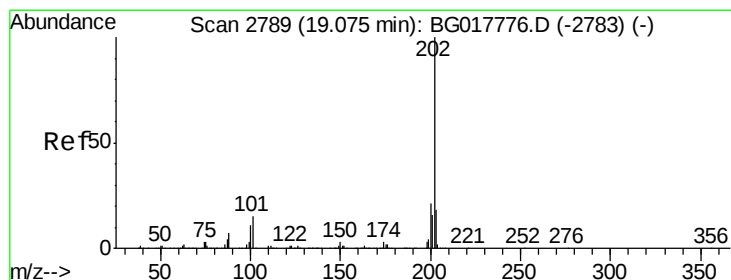
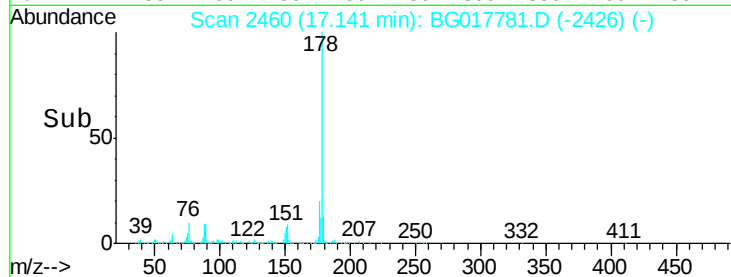
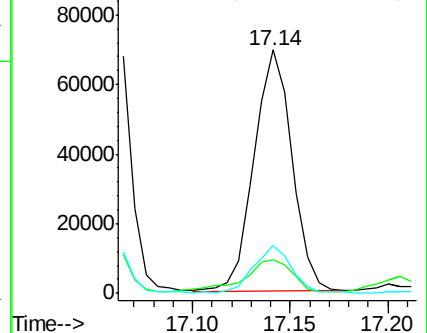
176 19.7 15.3 22.9



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#76

Fluoranthene

Concen: 4.54 ng/ul

RT: 19.10 min Scan# 2793

Delta R.T. 0.02 min

Lab File: BG017781.D

Acq: 6 Jul 2015 22:30

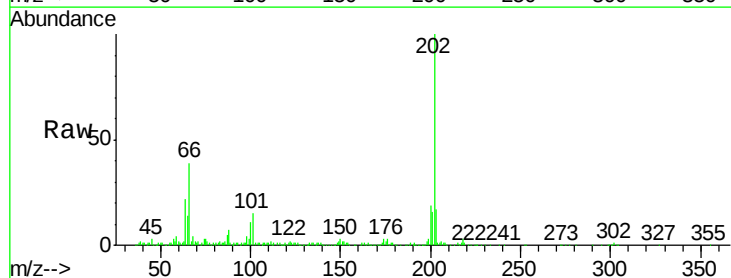
Tgt Ion:202 Resp: 148645

Ion Ratio Lower Upper

202 100

101 15.3 12.6 18.8

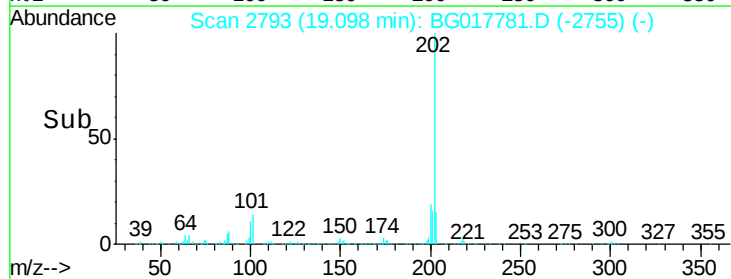
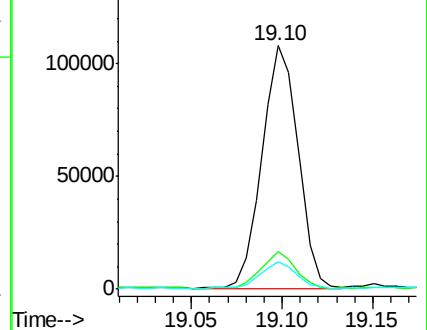
100 11.2 9.1 13.7

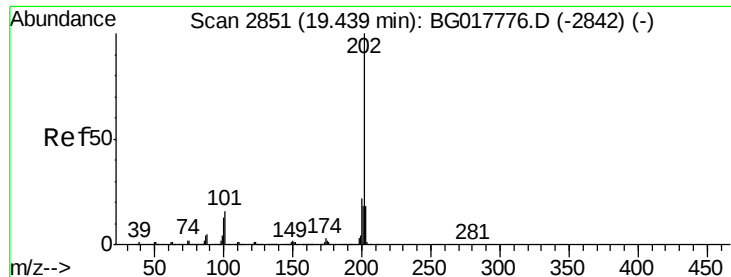


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#79

Pyrene

Concen: 6.99 ng/ul

RT: 19.44 min Scan# 2852

Delta R.T. 0.01 min

Lab File: BG017781.D

Acq: 6 Jul 2015 22:30

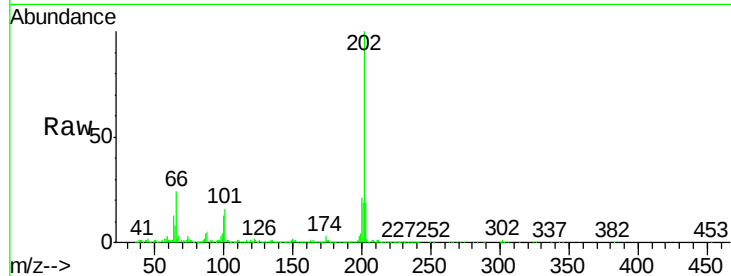
Instrument :

BNA\_G

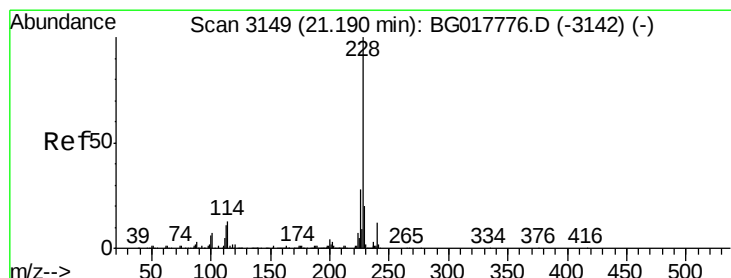
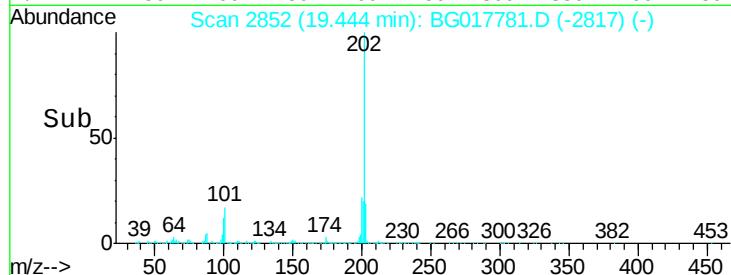
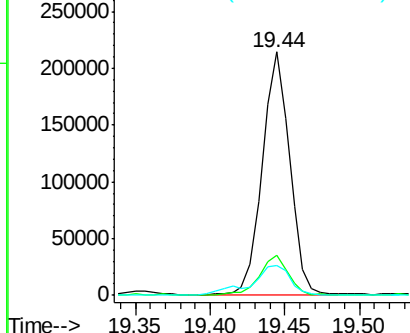
ClientSampled :

G93J8

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 269778 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 16.4  | 13.1  | 19.7   |
| 100      | 12.5  | 11.3  | 16.9   |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B



#82

Benzo(a)anthracene

Concen: 2.05 ng/ul

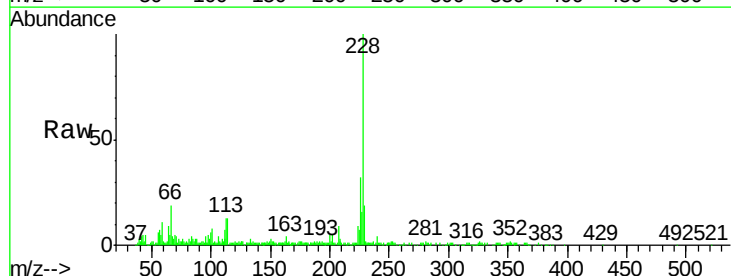
RT: 21.24 min Scan# 3158

Delta R.T. 0.05 min

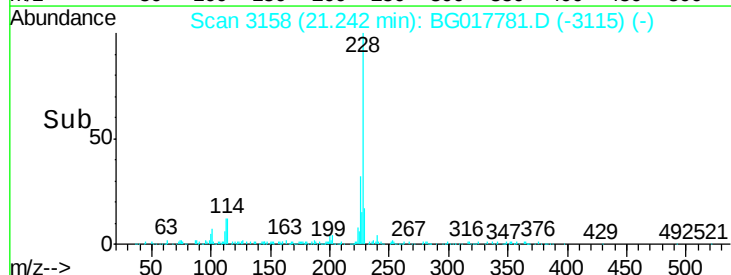
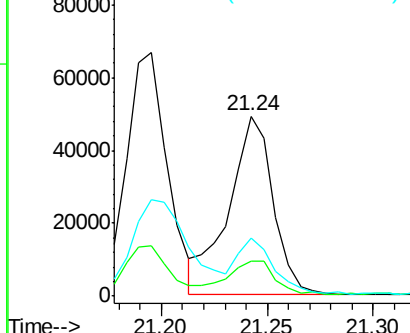
Lab File: BG017781.D

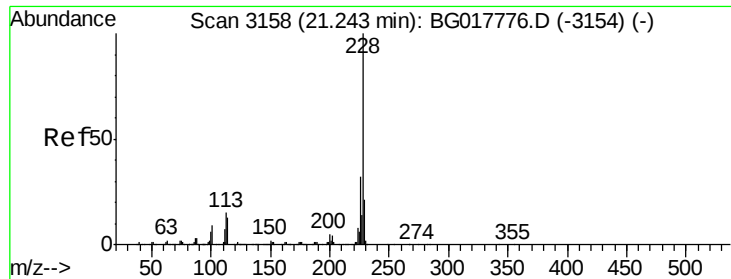
Acq: 6 Jul 2015 22:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 71289 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 229      | 19.3  | 15.8  | 23.8  |
| 226      | 32.5  | 22.2  | 33.2  |



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 2.16 ng/ul

RT: 21.24 min Scan# 3158

Delta R.T. -0.00 min

Lab File: BG017781.D

Acq: 6 Jul 2015 22:30

Instrument :

BNA\_G

ClientSampleId :

G93J8

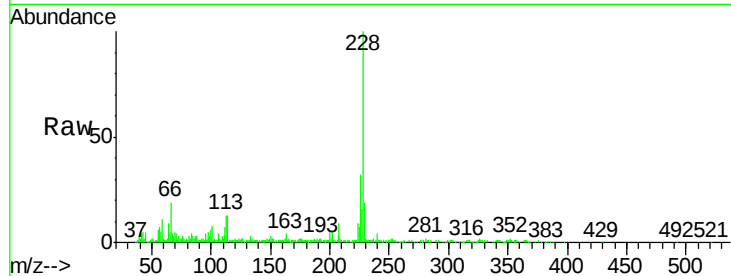
Tgt Ion:228 Resp: 71371

Ion Ratio Lower Upper

228 100

226 32.5 25.6 38.4

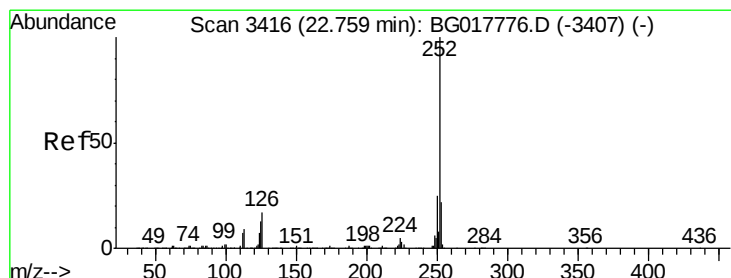
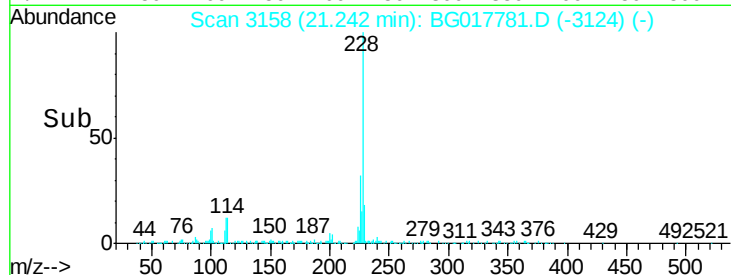
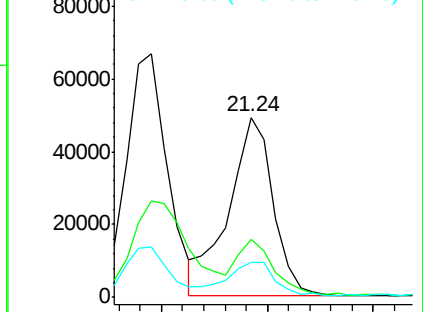
229 19.3 16.4 24.6



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



#87

Benzo(b)fluoranthene

Concen: 1.69 ng/ul

RT: 22.76 min Scan# 3417

Delta R.T. 0.01 min

Lab File: BG017781.D

Acq: 6 Jul 2015 22:30

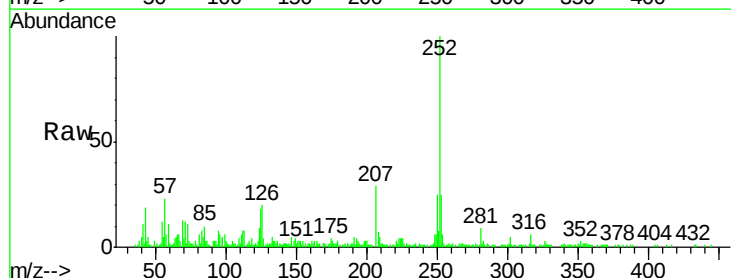
Tgt Ion:252 Resp: 61317

Ion Ratio Lower Upper

252 100

253 25.4 16.8 25.2#

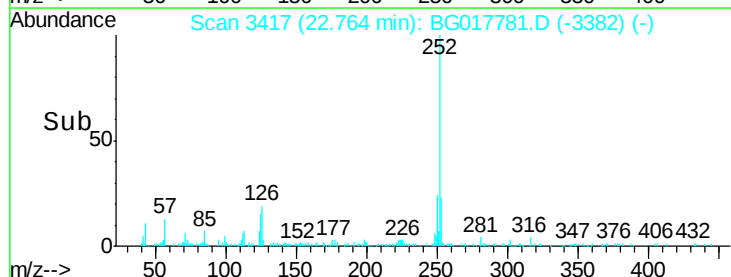
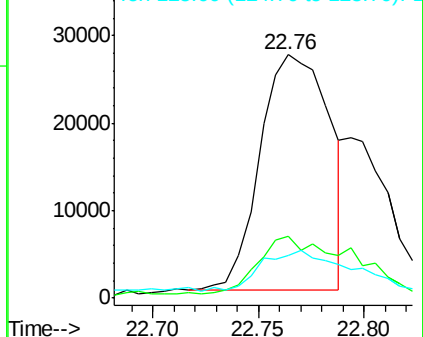
125 17.7 10.4 15.6#

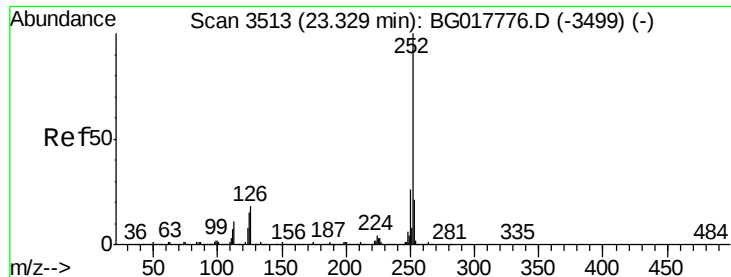


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 2.44 ng/ul

RT: 23.33 min Scan# 3514

Delta R.T. 0.01 min

Lab File: BG017781.D

Acq: 6 Jul 2015 22:30

Instrument :

BNA\_G

ClientSampleId :

G93J8

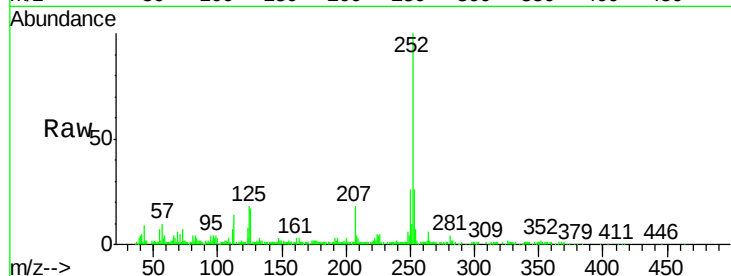
Tgt Ion:252 Resp: 84072

Ion Ratio Lower Upper

252 100

253 26.1 18.3 27.5

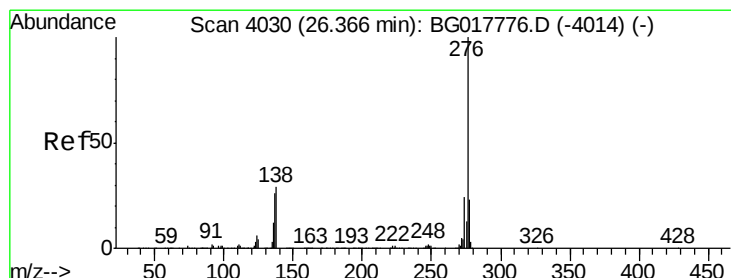
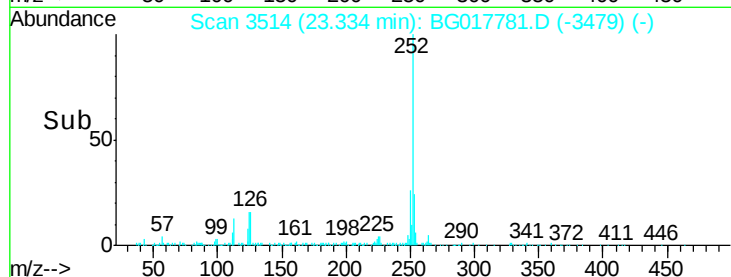
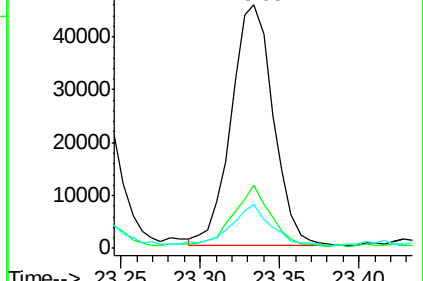
125 17.9 12.1 18.1



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



#93

Benzo(g,h,i)perylene

Concen: 1.20 ng/ul

RT: 26.37 min Scan# 4030

Delta R.T. -0.00 min

Lab File: BG017781.D

Acq: 6 Jul 2015 22:30

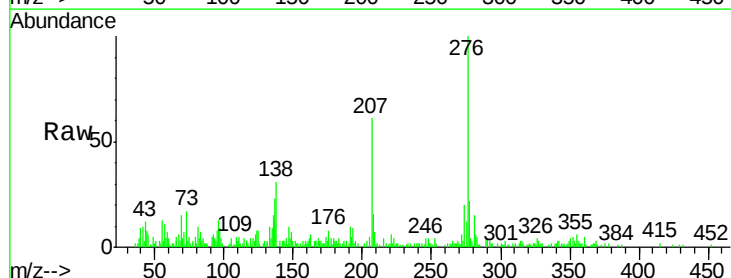
Tgt Ion:276 Resp: 37652

Ion Ratio Lower Upper

276 100

138 30.7 25.1 37.7

277 21.7 18.7 28.1



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

