

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG122215\  
 Data File : BG020456.D  
 Acq On : 23 Dec 2015 23:25  
 Operator : UM/SJ  
 Sample : G4787-17DL 30X  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 G9BN9MEDL

Quant Time: Dec 24 02:52:46 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 24 02:43:25 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.09  | 152  | 16753    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.90 | 136  | 71353    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.71 | 164  | 52638    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.46 | 188  | 127872   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.74 | 240  | 158632   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.00 | 264  | 152329   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |      |      |       |      |
|--------------------------------|-------|-----|------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0    | 0.00 | ng/uL |      |
| 5) Phenol-d5                   | 7.24  | 99  | 641  | 0.43 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.41  | 67  | 519  | 0.59 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.62  | 132 | 428  | 0.40 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 0.00  | 113 | 0    | 0.00 | ng/ul |      |
| 19) Nitrobenzene-d5            | 9.25  | 128 | 201  | 0.36 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.98  | 143 | 316  | 0.51 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.52 | 165 | 469  | 0.37 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.05 | 131 | 351  | 0.25 | ng/ul | 0.01 |
| 44) Dimethylphthalate-d6       | 14.11 | 166 | 3888 | 0.91 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.41 | 160 | 4609 | 0.93 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 0.00  | 143 | 0    | 0.00 | ng/ul |      |
| 58) Fluorene-d10               | 15.71 | 176 | 3808 | 0.99 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0    | 0.00 | ng/ul |      |
| 71) Anthracene-d10             | 17.56 | 188 | 5612 | 0.95 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.84 | 212 | 6538 | 0.88 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.77 | 264 | 7004 | 0.92 | ng/ul | 0.00 |

## Target Compounds

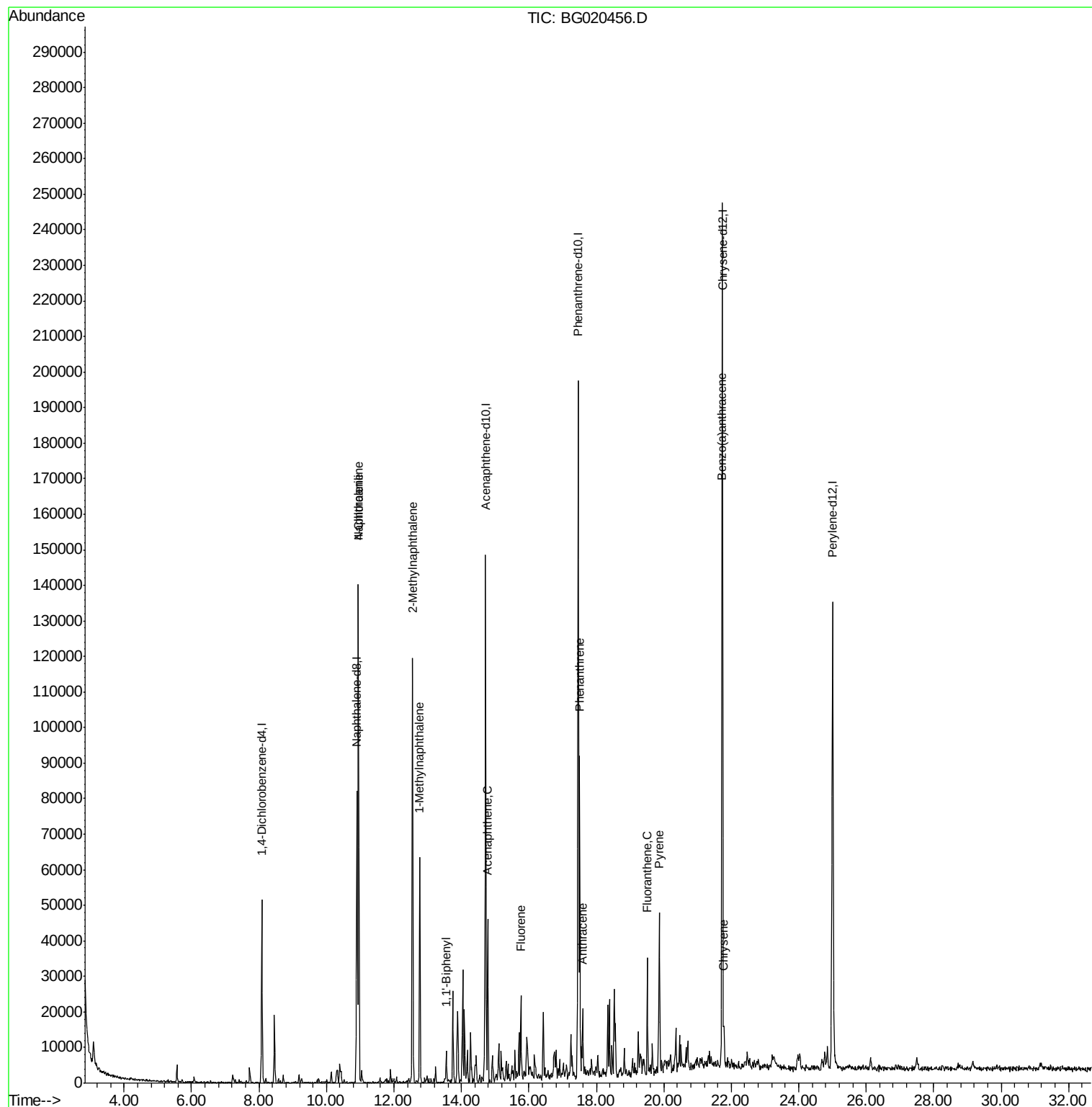
|                         |       |     |        |       |        | Qvalue |
|-------------------------|-------|-----|--------|-------|--------|--------|
| 28) Naphthalene         | 10.95 | 128 | 124242 | 33.34 | ng/ul  | 98     |
| 30) 4-Chloroaniline     | 10.95 | 127 | 16762  | 11.66 | ng/ul# | 7      |
| 34) 2-Methylnaphthalene | 12.55 | 142 | 59788  | 21.01 | ng/ul  | 99     |
| 35) 1-Methylnaphthalene | 12.76 | 142 | 32412  | 11.85 | ng/ul  | 97     |
| 41) 1,1'-Biphenyl       | 13.55 | 154 | 5132   | 1.29  | ng/ul# | 95     |
| 50) Acenaphthene        | 14.78 | 153 | 20023  | 5.65  | ng/ul  | 96     |
| 59) Fluorene            | 15.76 | 166 | 11654  | 2.76  | ng/ul  | 96     |
| 70) Phenanthrene        | 17.50 | 178 | 60038  | 8.58  | ng/ul  | 98     |
| 72) Anthracene          | 17.59 | 178 | 14080  | 1.98  | ng/ul  | 99     |
| 77) Fluoranthene        | 19.51 | 202 | 20309  | 2.48  | ng/ul  | 98     |
| 80) Pyrene              | 19.87 | 202 | 32380  | 3.37  | ng/ul  | 99     |
| 83) Benzo(a)anthracene  | 21.72 | 228 | 11796  | 1.27  | ng/ul  | 99     |
| 85) Chrysene            | 21.78 | 228 | 10306  | 1.18  | ng/ul  | 95     |

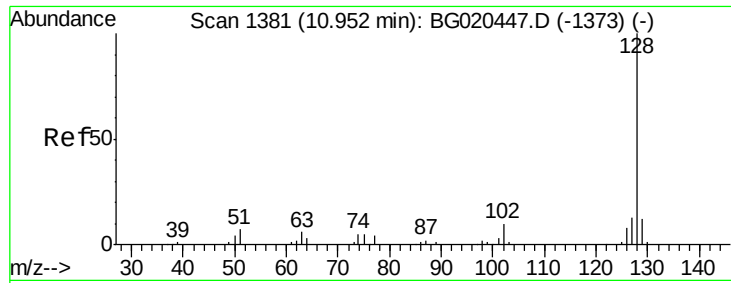
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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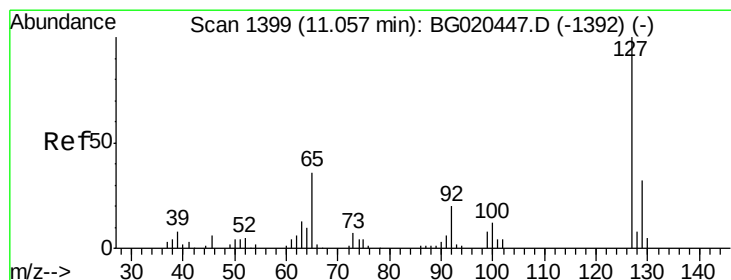
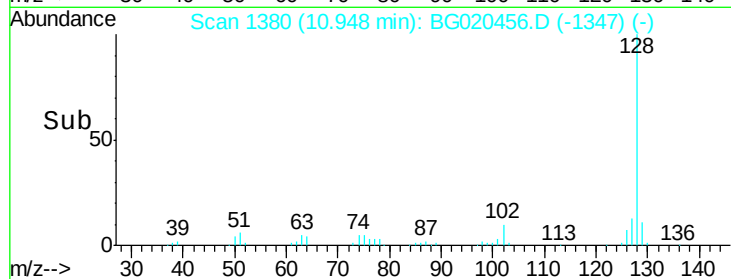
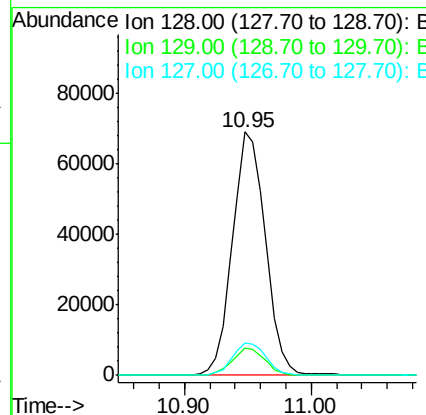
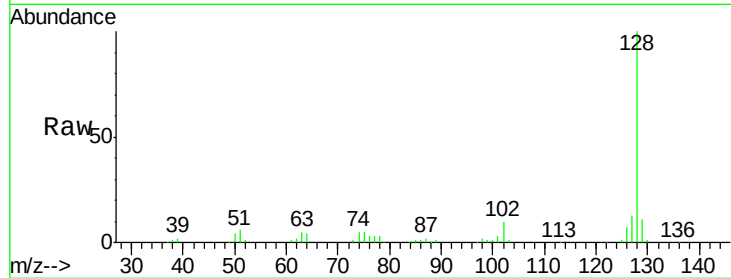




#28  
Naphthalene  
Concen: 33.34 ng/ul  
RT: 10.95 min Scan# 1380  
Delta R.T. -0.00 min  
Lab File: BG020456.D  
Acq: 23 Dec 2015 23:25

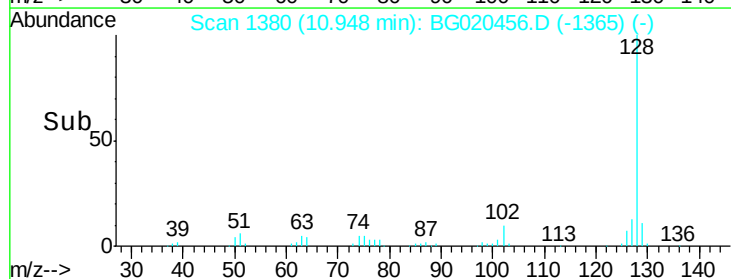
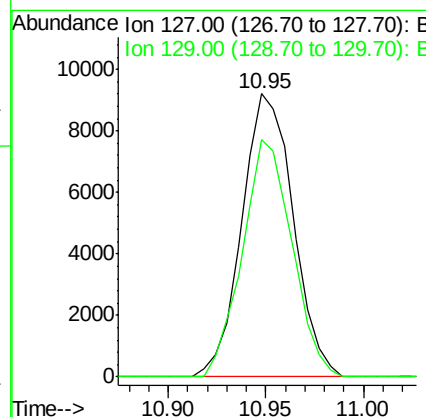
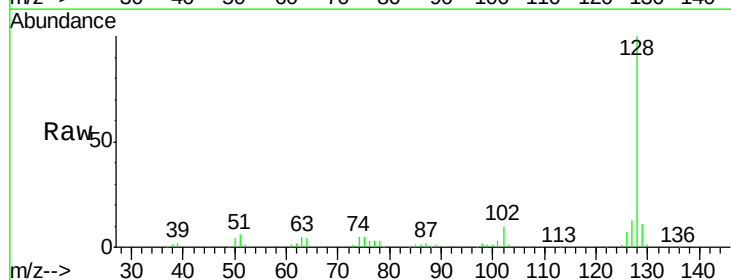
Instrument :  
BNA\_G  
ClientSampleId :  
G9BN9MEDL

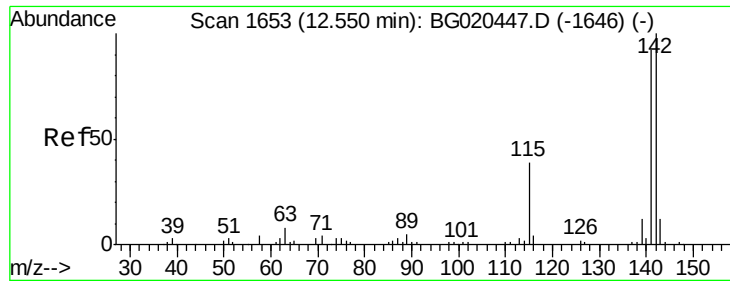
Tgt Ion:128 Resp: 124242  
Ion Ratio Lower Upper  
128 100  
129 11.2 8.6 12.8  
127 13.3 10.1 15.1



#30  
4-Chloroaniline  
Concen: 11.66 ng/ul  
RT: 10.95 min Scan# 1380  
Delta R.T. -0.11 min  
Lab File: BG020456.D  
Acq: 23 Dec 2015 23:25

Tgt Ion:127 Resp: 16762  
Ion Ratio Lower Upper  
127 100  
129 84.0 25.7 38.5#

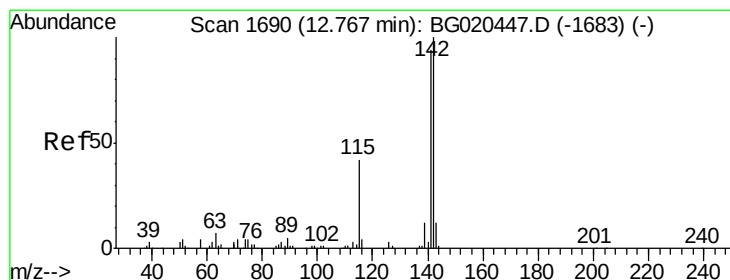
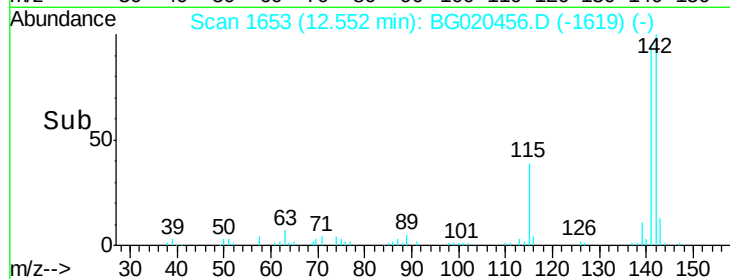
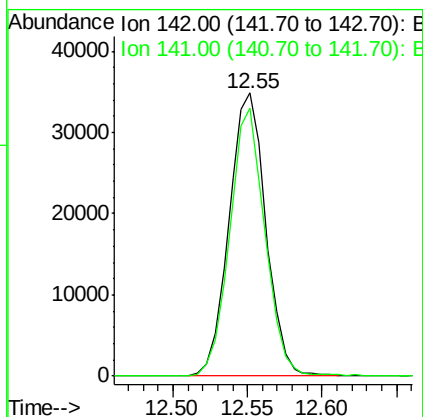
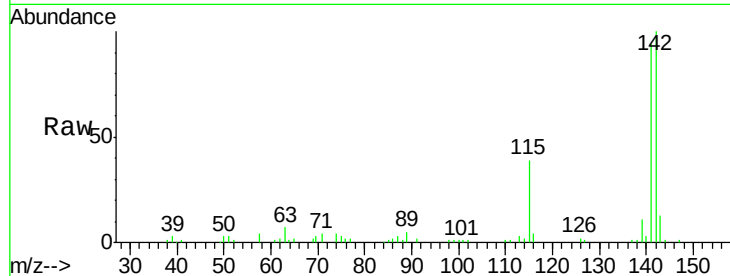




#34  
 2-Methylnaphthalene  
 Concen: 21.01 ng/ul  
 RT: 12.55 min Scan# 1653  
 Delta R.T. 0.00 min  
 Lab File: BG020456.D  
 Acq: 23 Dec 2015 23:25

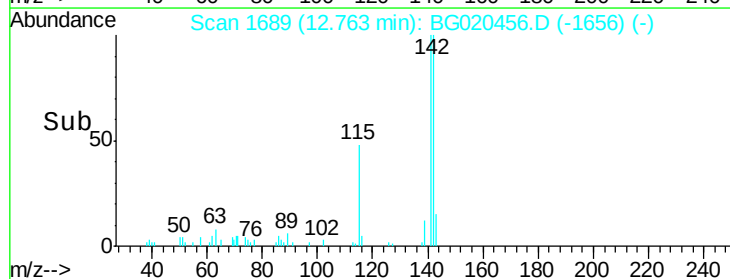
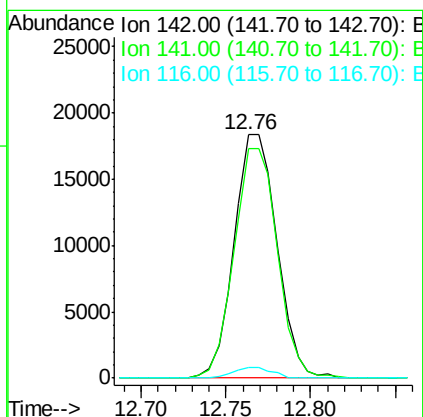
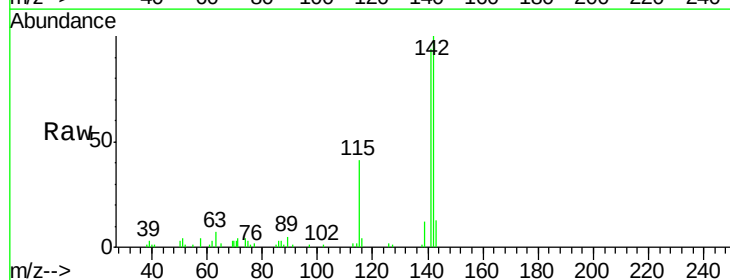
Instrument :  
 BNA\_G  
 ClientSampleId :  
 G9BN9MEDL

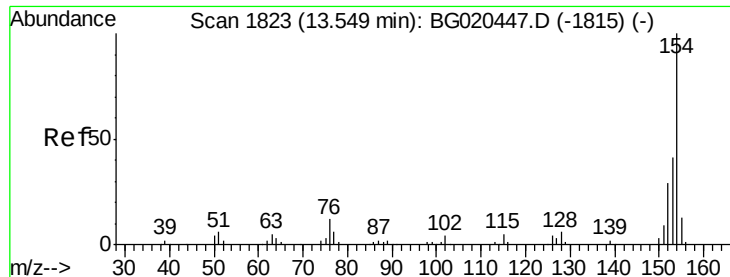
Tgt Ion:142 Resp: 59788  
 Ion Ratio Lower Upper  
 142 100  
 141 94.5 74.9 112.3



#35  
 1-Methylnaphthalene  
 Concen: 11.85 ng/ul  
 RT: 12.76 min Scan# 1689  
 Delta R.T. -0.00 min  
 Lab File: BG020456.D  
 Acq: 23 Dec 2015 23:25

Tgt Ion:142 Resp: 32412  
 Ion Ratio Lower Upper  
 142 100  
 141 94.1 73.0 109.6  
 116 4.5 3.0 4.6

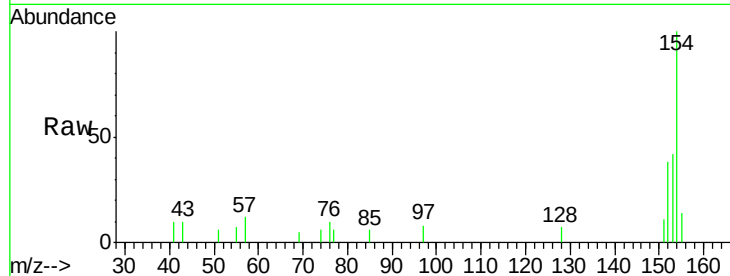




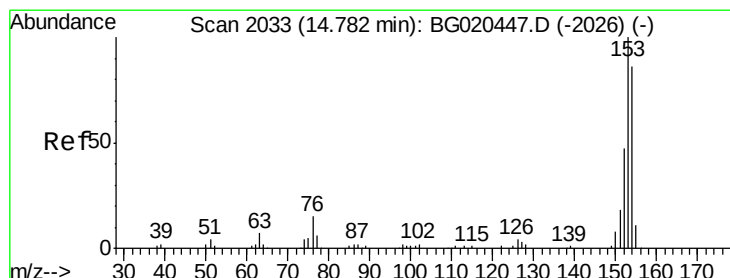
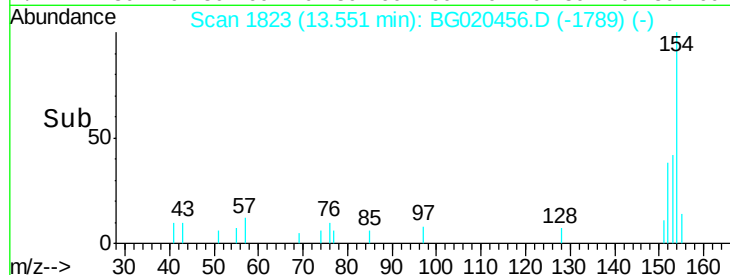
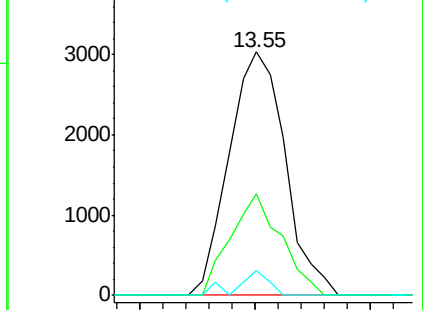
#41  
 1,1'-Biphenyl  
 Concen: 1.29 ng/ul  
 RT: 13.55 min Scan# 1823  
 Delta R.T. 0.00 min  
 Lab File: BG020456.D  
 Acq: 23 Dec 2015 23:25

Instrument :  
 BNA\_G  
 ClientSampleId :  
 G9BN9MEDL

Tgt Ion:154 Resp: 5132  
 Ion Ratio Lower Upper  
 154 100  
 153 41.9 35.5 53.3  
 76 10.1 10.4 15.6#

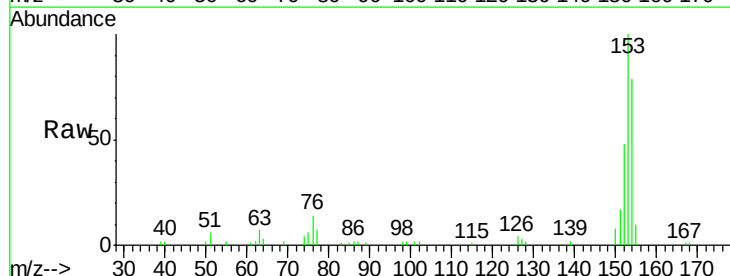


Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): B

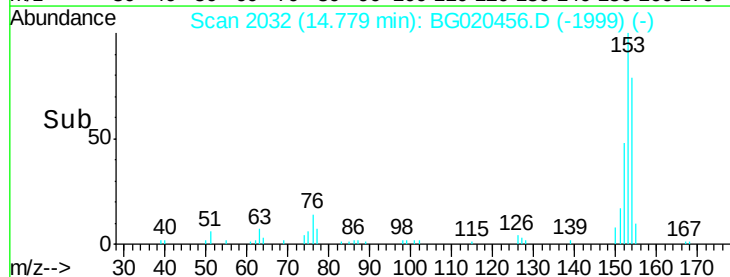
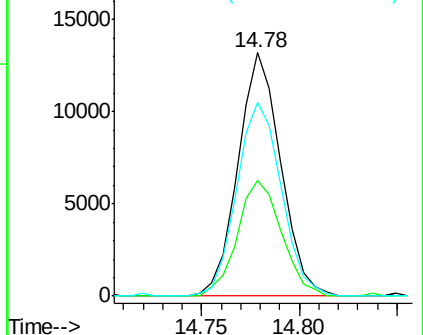


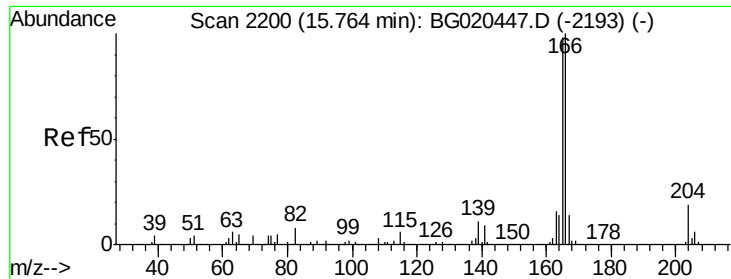
#50  
 Acenaphthene  
 Concen: 5.65 ng/ul  
 RT: 14.78 min Scan# 2032  
 Delta R.T. -0.00 min  
 Lab File: BG020456.D  
 Acq: 23 Dec 2015 23:25

Tgt Ion:153 Resp: 20023  
 Ion Ratio Lower Upper  
 153 100  
 152 47.6 37.6 56.4  
 154 79.5 67.9 101.9



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





#59

Fluorene

Concen: 2.76 ng/ul

RT: 15.76 min Scan# 2199

Delta R.T. -0.00 min

Lab File: BG020456.D

Acq: 23 Dec 2015 23:25

Instrument :

BNA\_G

ClientSampleId :

G9BN9MEDL

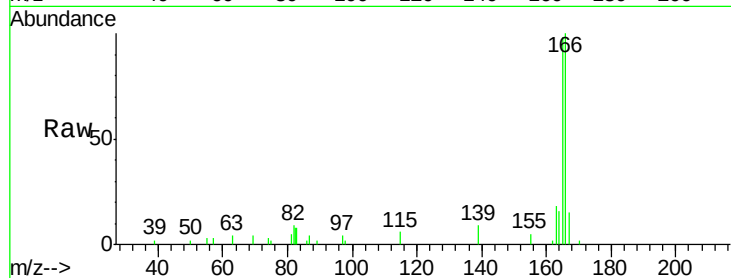
Tgt Ion:166 Resp: 11654

Ion Ratio Lower Upper

166 100

165 97.9 81.4 122.0

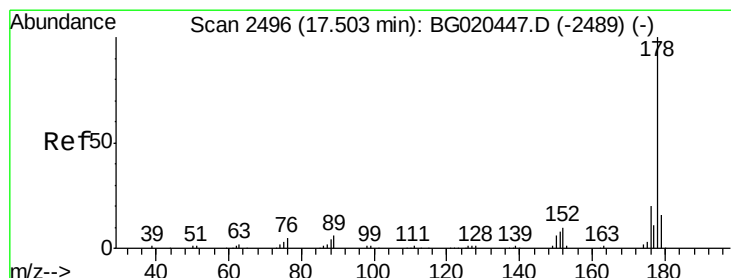
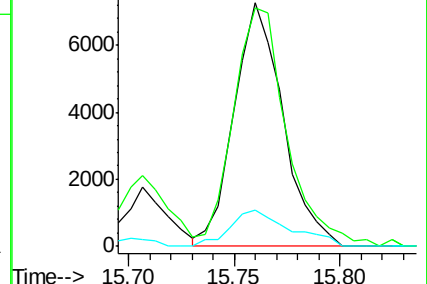
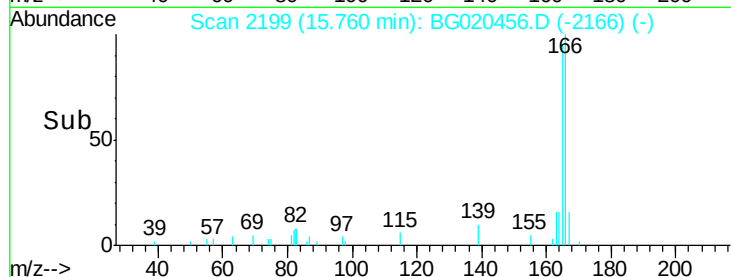
167 15.0 11.2 16.8



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



#70

Phenanthrene

Concen: 8.58 ng/ul

RT: 17.50 min Scan# 2496

Delta R.T. 0.00 min

Lab File: BG020456.D

Acq: 23 Dec 2015 23:25

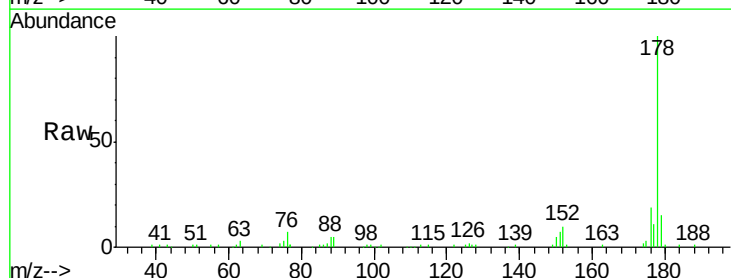
Tgt Ion:178 Resp: 60038

Ion Ratio Lower Upper

178 100

179 15.2 12.9 19.3

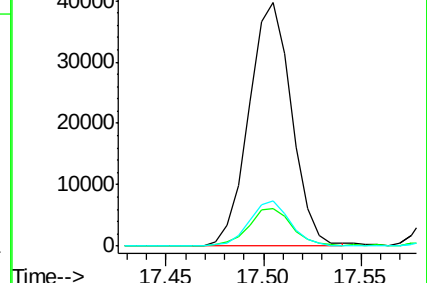
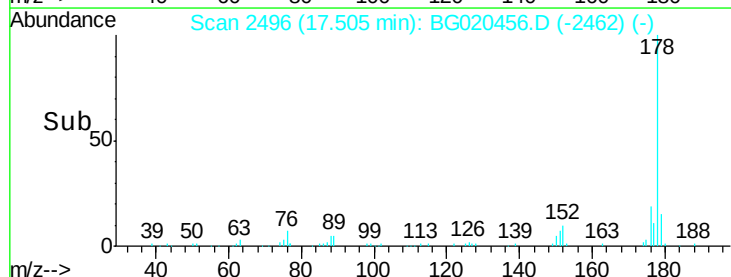
176 18.6 15.3 22.9

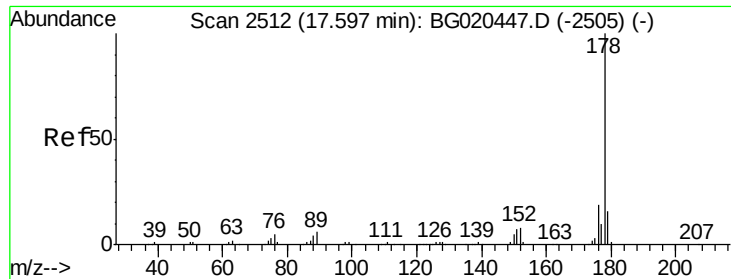


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 1.98 ng/ul

RT: 17.59 min Scan# 2511

Delta R.T. -0.00 min

Lab File: BG020456.D

Acq: 23 Dec 2015 23:25

Instrument :

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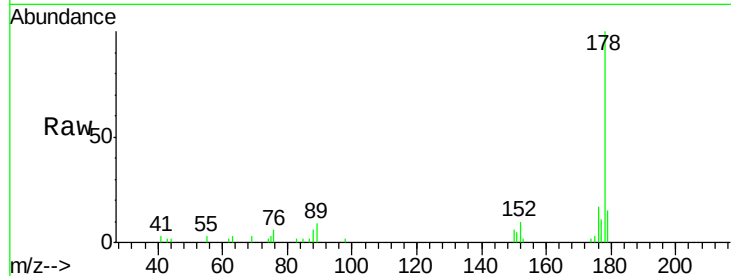
Tgt Ion:178 Resp: 14080

Ion Ratio Lower Upper

178 100

179 14.8 12.3 18.5

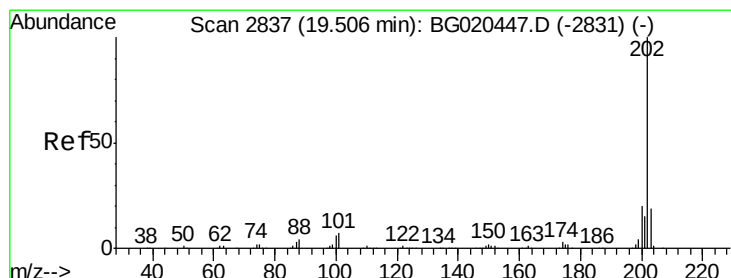
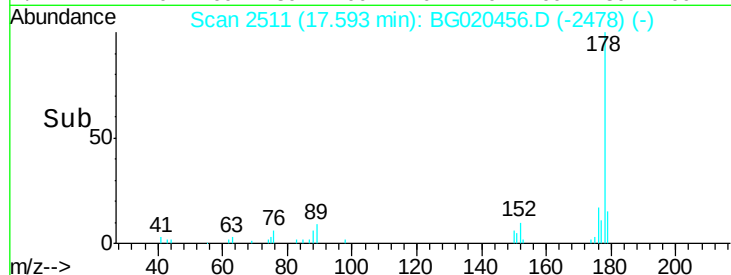
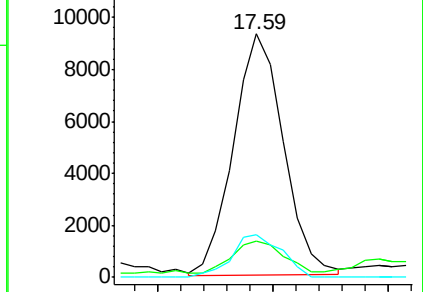
176 17.3 14.3 21.5



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



#77

Fluoranthene

Concen: 2.48 ng/ul

RT: 19.51 min Scan# 2837

Delta R.T. 0.00 min

Lab File: BG020456.D

Acq: 23 Dec 2015 23:25

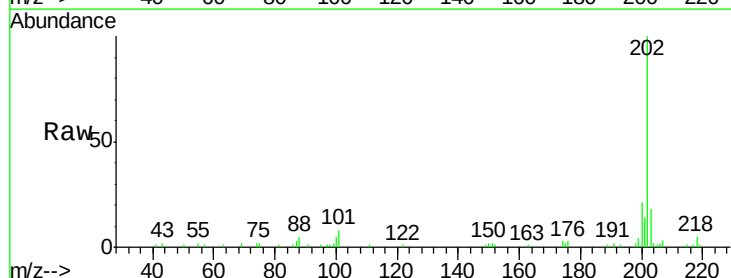
Tgt Ion:202 Resp: 20309

Ion Ratio Lower Upper

202 100

101 8.0 6.2 9.4

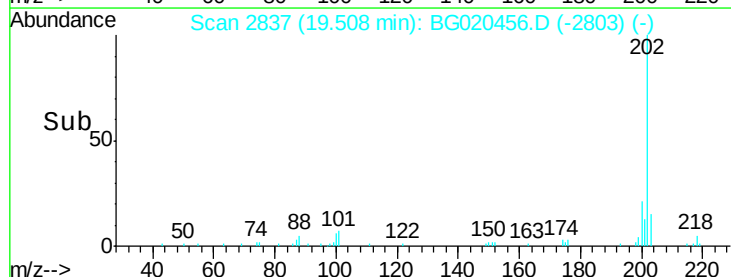
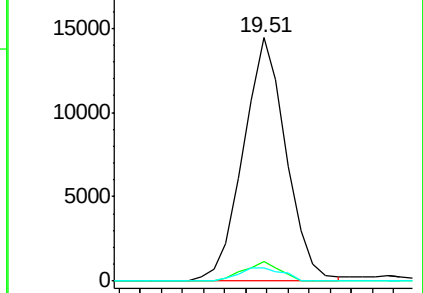
100 5.4 5.1 7.7

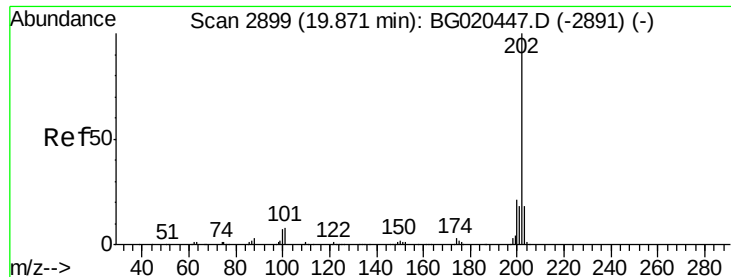


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#80

Pyrene

Concen: 3.37 ng/ul

RT: 19.87 min Scan# 2898

Delta R.T. -0.00 min

Lab File: BG020456.D

Acq: 23 Dec 2015 23:25

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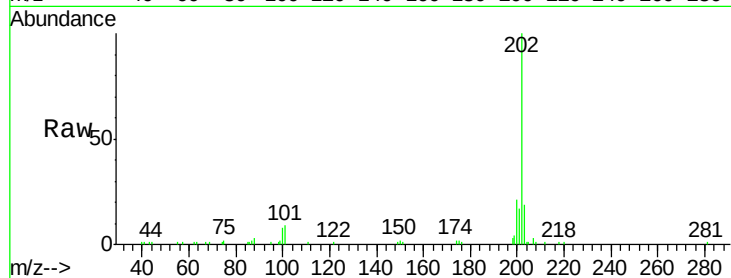
Tgt Ion:202 Resp: 32380

Ion Ratio Lower Upper

202 100

101 8.6 7.0 10.4

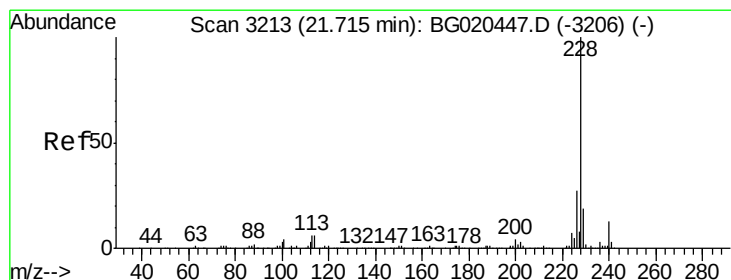
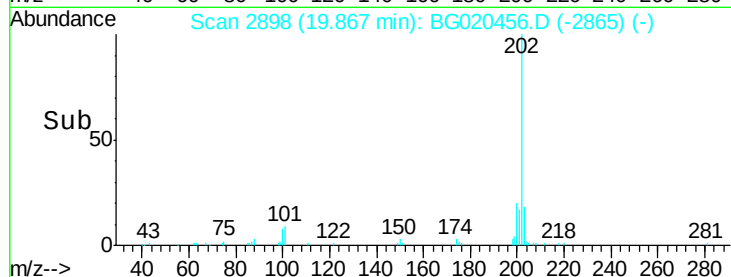
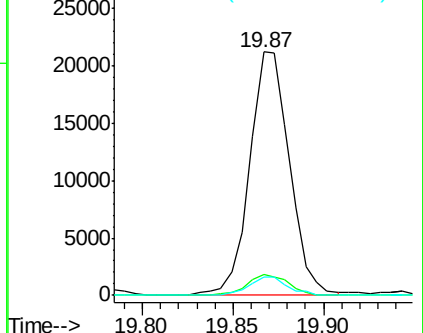
100 7.7 6.4 9.6



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



#83

Benzo(a)anthracene

Concen: 1.27 ng/ul

RT: 21.72 min Scan# 3213

Delta R.T. 0.00 min

Lab File: BG020456.D

Acq: 23 Dec 2015 23:25

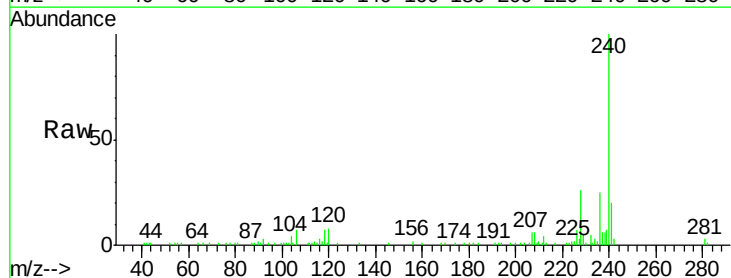
Tgt Ion:228 Resp: 11796

Ion Ratio Lower Upper

228 100

229 20.3 15.8 23.8

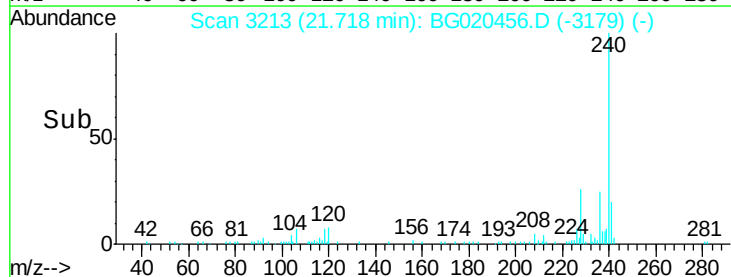
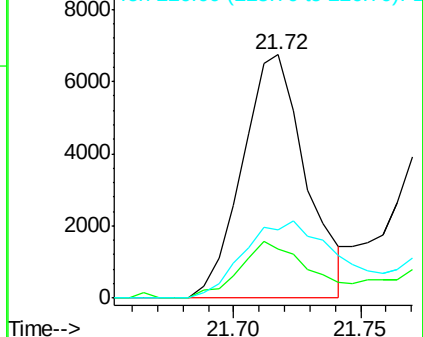
226 28.0 21.8 32.6



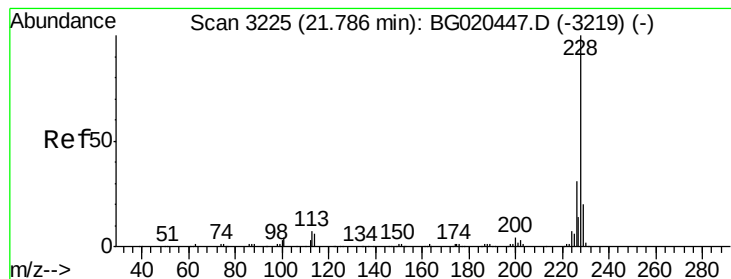
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E







#85

Chrysene

Concen: 1.18 ng/ul

RT: 21.78 min Scan# 3224

Delta R.T. -0.00 min

Lab File: BG020456.D

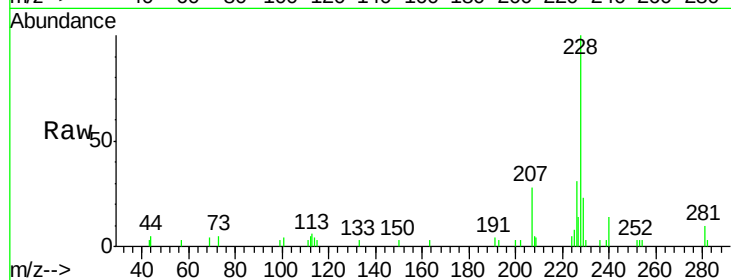
Acq: 23 Dec 2015 23:25

Instrument :

BNA\_G

ClientSampleId :

G9BN9MEDL



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 10306 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 31.5  | 23.9  | 35.9  |
| 229      | 23.0  | 15.6  | 23.4  |

