

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG122815\  
 Data File : BG020576.D  
 Acq On : 28 Dec 2015 23:07  
 Operator : UM/SJ  
 Sample : G4846-18DL 25X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N64DL

Quant Time: Dec 29 05:09:19 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG122415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 29 05:04:12 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.07  | 152  | 13202    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.88 | 136  | 56202    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.70 | 164  | 44675    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.45 | 188  | 131226   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.72 | 240  | 169103   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.99 | 264  | 162131   | 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                   | 7.39  | 99  | 444   | 0.42 | ng/ul | 0.17 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.40  | 67  | 580   | 0.92 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.60  | 132 | 371   | 0.46 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.79  | 113 | 141   | 0.16 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.24  | 128 | 191   | 0.43 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.97  | 143 | 250   | 0.50 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.52 | 165 | 806   | 0.83 | ng/ul | 0.01 |
| 29) 4-Chloroaniline-d4         | 0.00  | 131 | 0     | 0.00 | ng/ul |      |
| 44) Dimethylphthalate-d6       | 14.10 | 166 | 5281  | 1.43 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.40 | 160 | 5771  | 1.35 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 0.00  | 143 | 0     | 0.00 | ng/ul |      |
| 58) Fluorene-d10               | 15.70 | 176 | 5303  | 1.59 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0     | 0.00 | ng/ul |      |
| 71) Anthracene-d10             | 17.55 | 188 | 10418 | 1.69 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.83 | 212 | 11809 | 1.61 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.76 | 264 | 11554 | 1.41 | ng/ul | 0.00 |

## Target Compounds

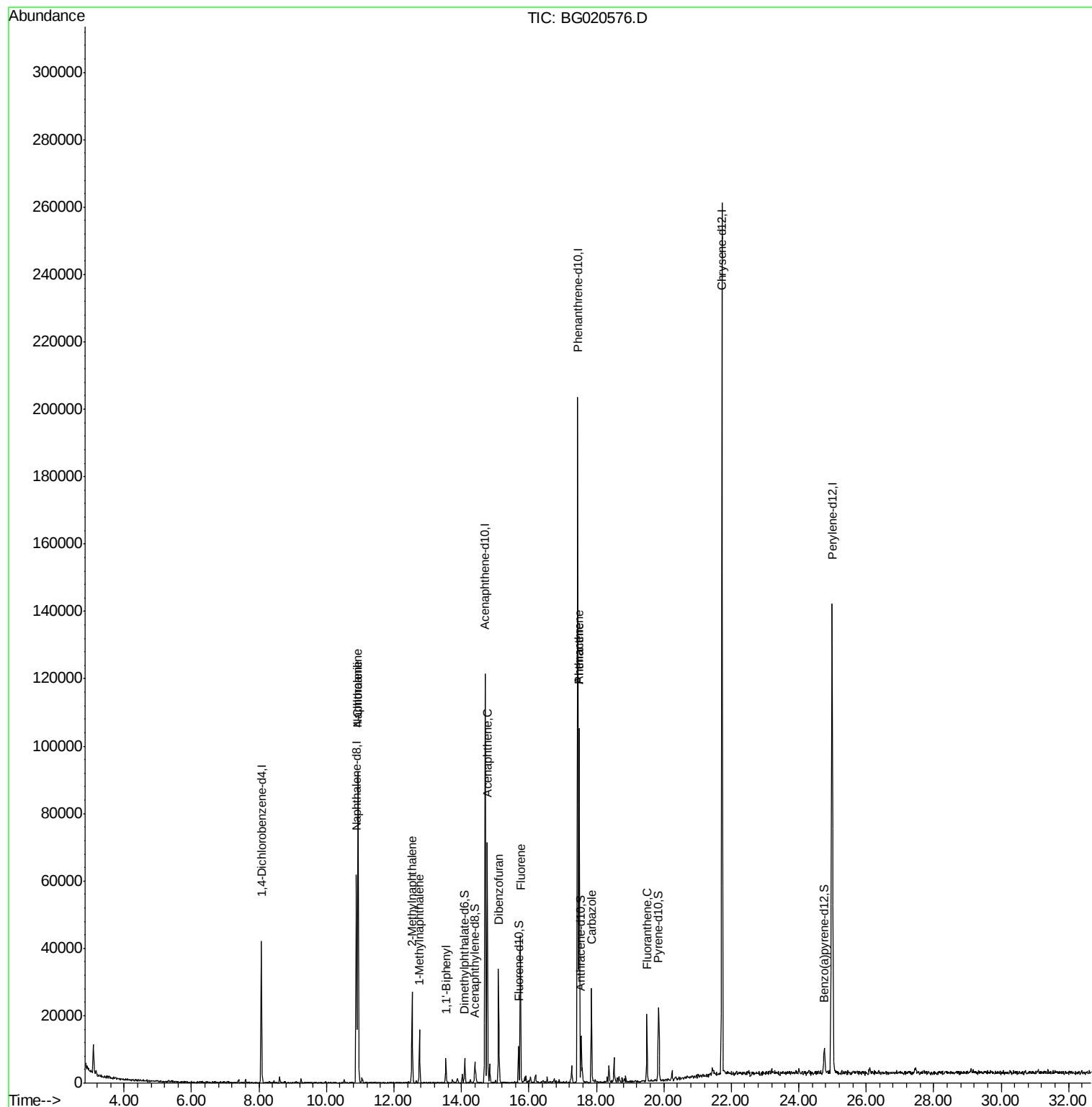
|                         |       |     |       |       |        | Qvalue |
|-------------------------|-------|-----|-------|-------|--------|--------|
| 28) Naphthalene         | 10.94 | 128 | 82405 | 27.58 | ng/ul  | 99     |
| 30) 4-Chloroaniline     | 10.94 | 127 | 11278 | 10.10 | ng/ul# | 11     |
| 34) 2-Methylnaphthalene | 12.53 | 142 | 14693 | 6.65  | ng/ul  | 98     |
| 35) 1-Methylnaphthalene | 12.76 | 142 | 8639  | 4.11  | ng/ul# | 96     |
| 41) 1,1'-Biphenyl       | 13.54 | 154 | 4975  | 1.44  | ng/ul# | 96     |
| 50) Acenaphthene        | 14.77 | 153 | 29667 | 9.79  | ng/ul  | 94     |
| 54) Dibenzofuran        | 15.10 | 168 | 24001 | 5.32  | ng/ul  | 96     |
| 59) Fluorene            | 15.75 | 166 | 21703 | 5.94  | ng/ul  | 94     |
| 70) Phenanthrene        | 17.49 | 178 | 67734 | 9.28  | ng/ul  | 98     |
| 72) Anthracene          | 17.49 | 178 | 67734 | 9.07  | ng/ul  | 95     |
| 75) Carbazole           | 17.86 | 167 | 23074 | 3.67  | ng/ul  | 98     |
| 77) Fluoranthene        | 19.50 | 202 | 15386 | 1.68  | ng/ul# | 94     |

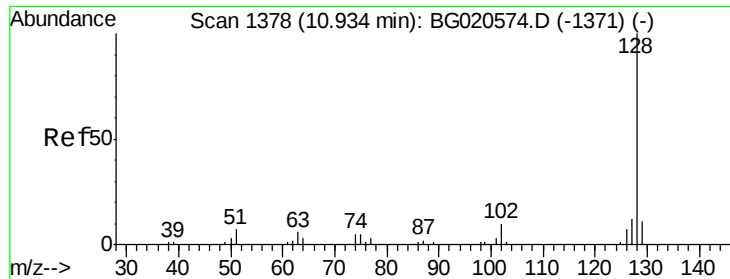
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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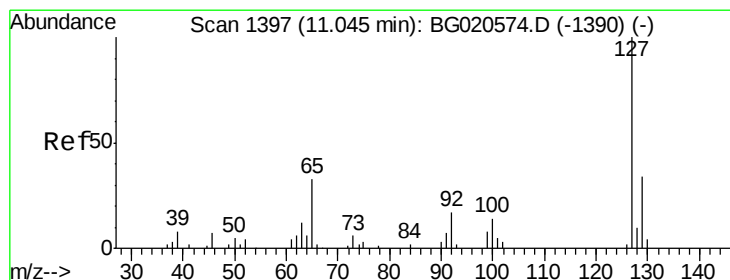
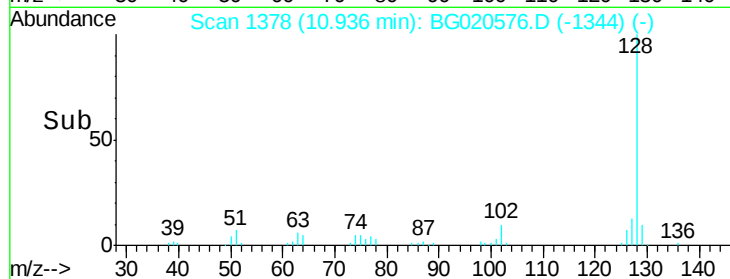
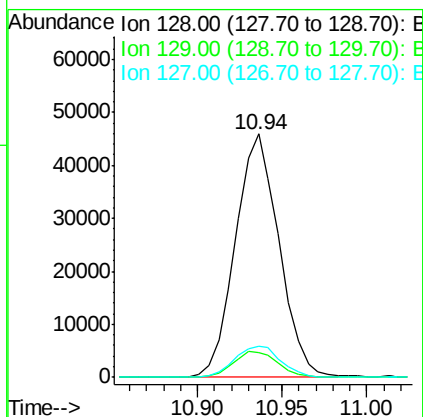
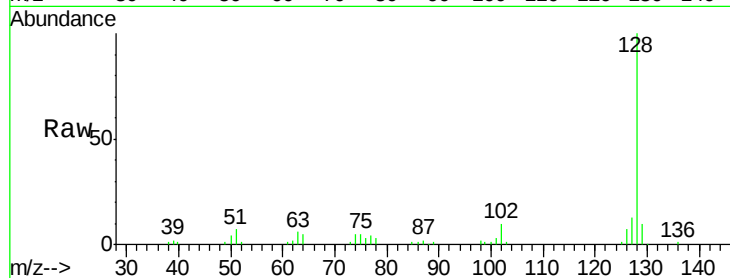




#28  
Naphthalene  
Concen: 27.58 ng/ul  
RT: 10.94 min Scan# 1378  
Delta R.T. 0.00 min  
Lab File: BG020576.D  
Acq: 28 Dec 2015 23:07

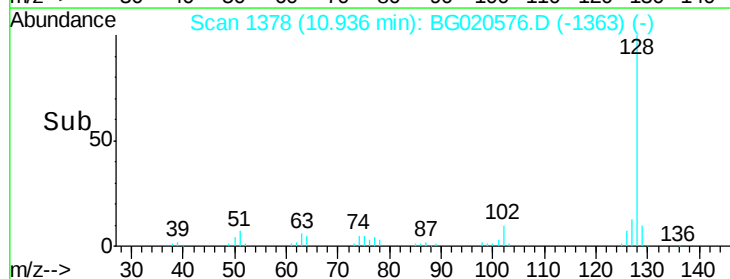
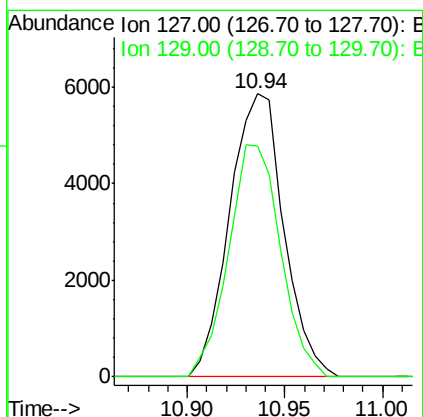
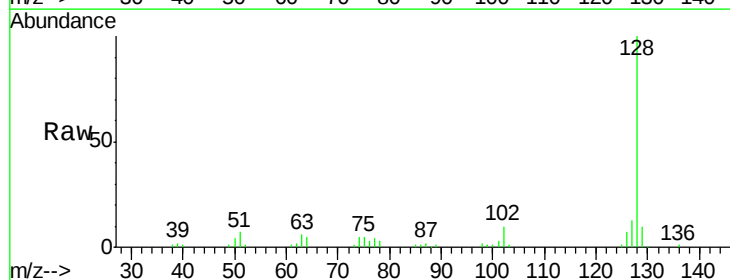
Instrument :  
BNA\_G  
ClientSampleId :  
D9N64DL

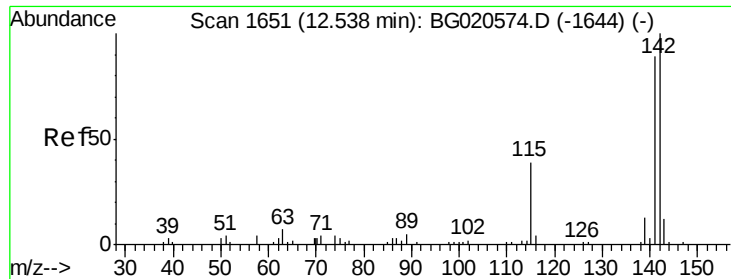
Tgt Ion:128 Resp: 82405  
Ion Ratio Lower Upper  
128 100  
129 10.4 8.6 12.8  
127 12.8 10.1 15.1



#30  
4-Chloroaniline  
Concen: 10.10 ng/ul  
RT: 10.94 min Scan# 1378  
Delta R.T. -0.11 min  
Lab File: BG020576.D  
Acq: 28 Dec 2015 23:07

Tgt Ion:127 Resp: 11278  
Ion Ratio Lower Upper  
127 100  
129 81.8 25.7 38.5#

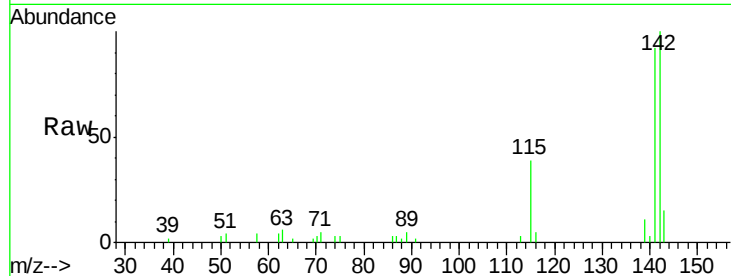




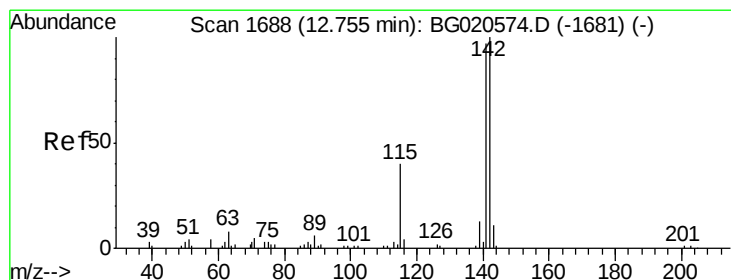
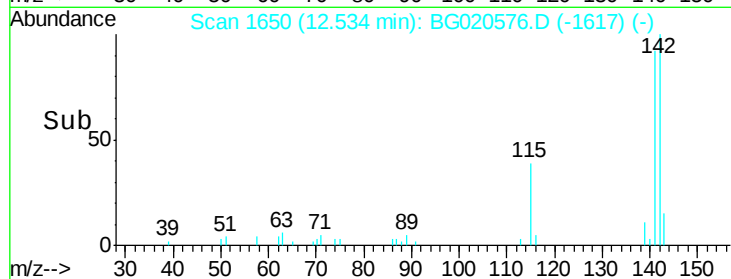
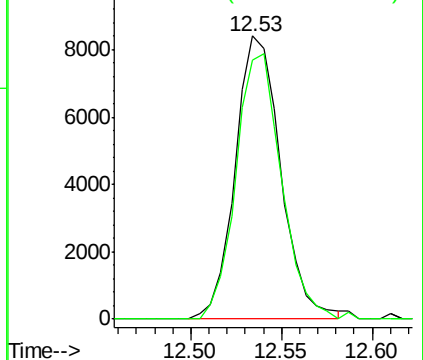
#34  
 2-Methylnaphthalene  
 Concen: 6.65 ng/ul  
 RT: 12.53 min Scan# 1650  
 Delta R.T. -0.00 min  
 Lab File: BG020576.D  
 Acq: 28 Dec 2015 23:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N64DL

Tgt Ion:142 Resp: 14693  
 Ion Ratio Lower Upper  
 142 100  
 141 91.6 74.9 112.3

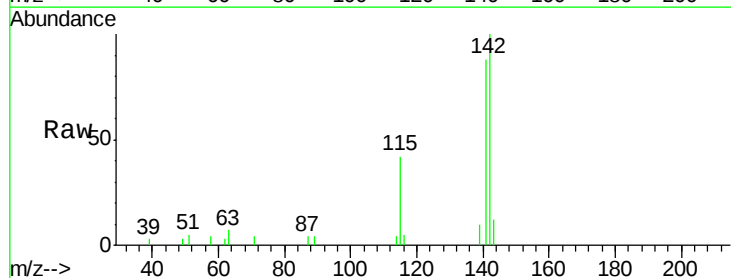


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E

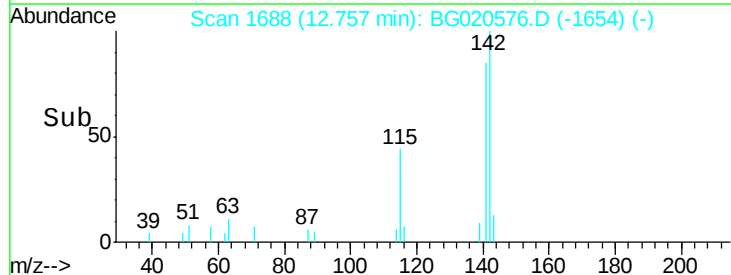
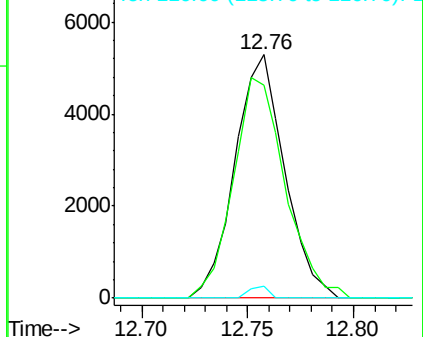


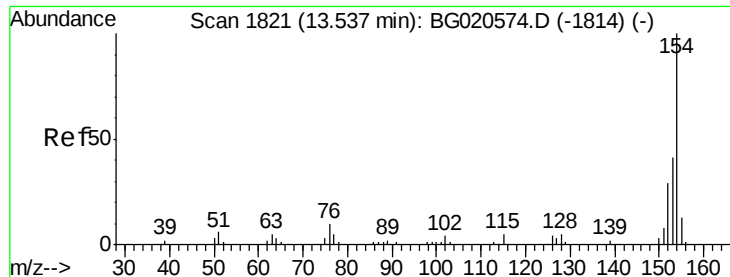
#35  
 1-Methylnaphthalene  
 Concen: 4.11 ng/ul  
 RT: 12.76 min Scan# 1688  
 Delta R.T. 0.00 min  
 Lab File: BG020576.D  
 Acq: 28 Dec 2015 23:07

Tgt Ion:142 Resp: 8639  
 Ion Ratio Lower Upper  
 142 100  
 141 87.6 73.0 109.6  
 116 5.0 3.0 4.6#



Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 116.00 (115.70 to 116.70): E

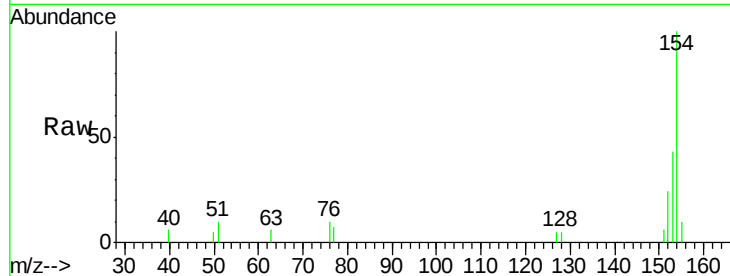




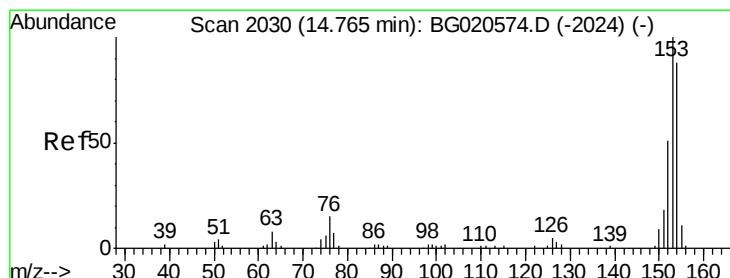
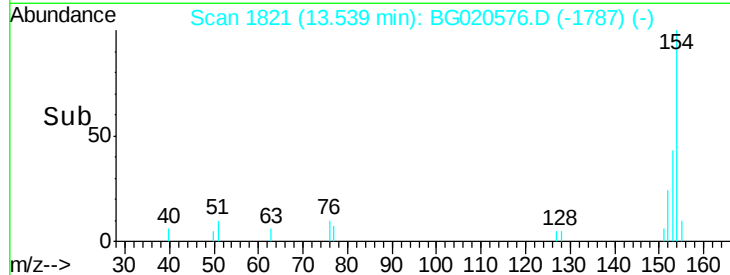
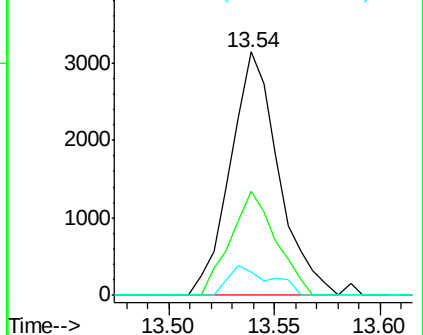
#41  
 1,1'-Biphenyl  
 Concen: 1.44 ng/ul  
 RT: 13.54 min Scan# 1821  
 Delta R.T. 0.00 min  
 Lab File: BG020576.D  
 Acq: 28 Dec 2015 23:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N64DL

Tgt Ion:154 Resp: 4975  
 Ion Ratio Lower Upper  
 154 100  
 153 42.5 35.5 53.3  
 76 9.7 10.4 15.6#

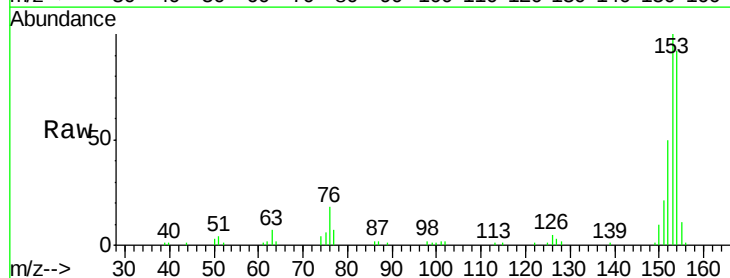


Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): B

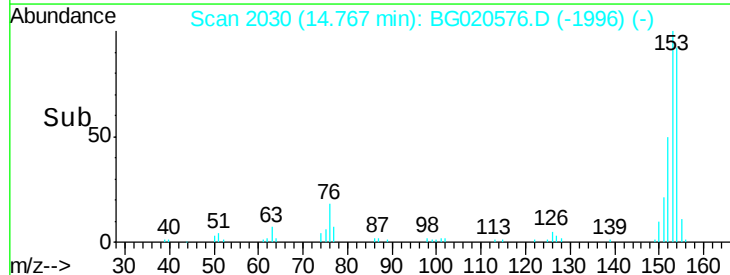
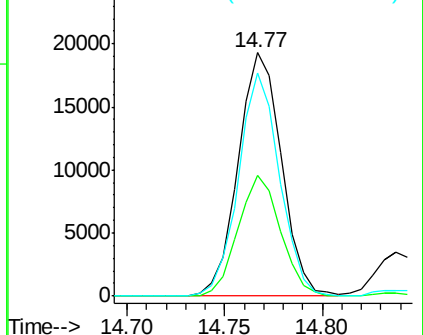


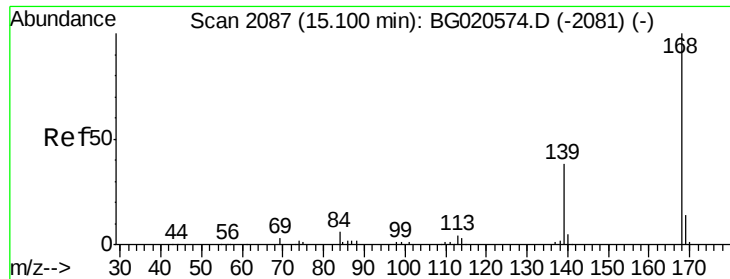
#50  
 Acenaphthene  
 Concen: 9.79 ng/ul  
 RT: 14.77 min Scan# 2030  
 Delta R.T. 0.00 min  
 Lab File: BG020576.D  
 Acq: 28 Dec 2015 23:07

Tgt Ion:153 Resp: 29667  
 Ion Ratio Lower Upper  
 153 100  
 152 49.8 37.6 56.4  
 154 91.6 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





#54

Dibenzenofuran

Concen: 5.32 ng/ul

RT: 15.10 min Scan# 2087

Delta R.T. 0.00 min

Lab File: BG020576.D

Acq: 28 Dec 2015 23:07

Instrument :

BNA\_G

ClientSampleId :

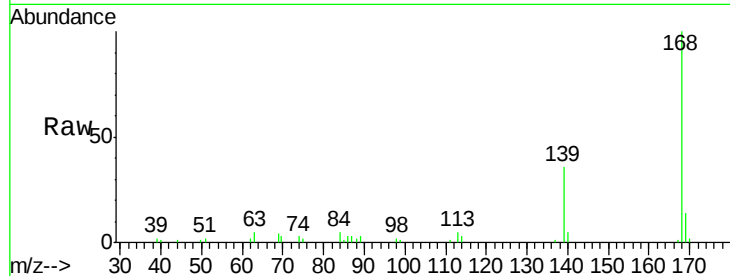
D9N64DL

Tgt Ion:168 Resp: 24001

Ion Ratio Lower Upper

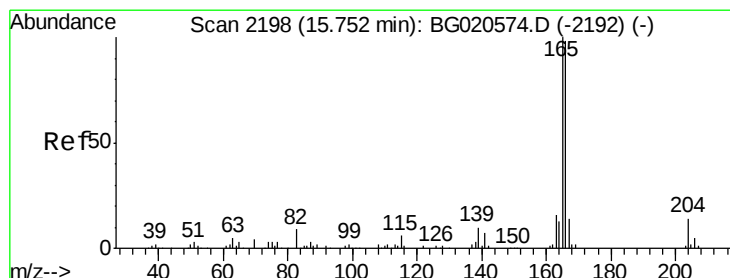
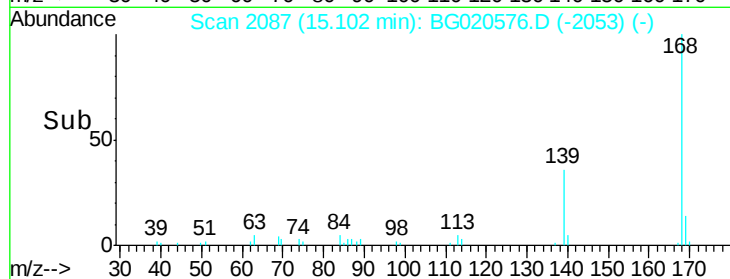
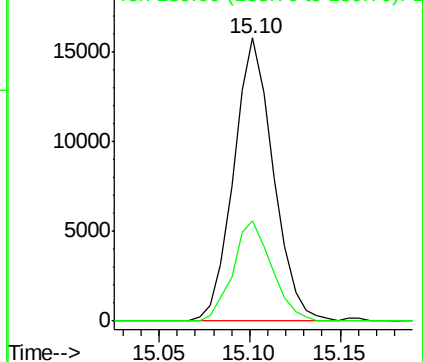
168 100

139 35.7 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 5.94 ng/ul

RT: 15.75 min Scan# 2197

Delta R.T. -0.00 min

Lab File: BG020576.D

Acq: 28 Dec 2015 23:07

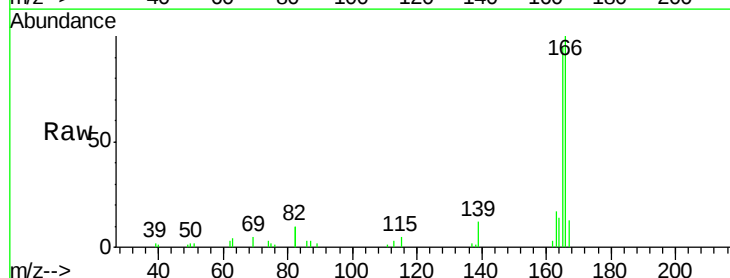
Tgt Ion:166 Resp: 21703

Ion Ratio Lower Upper

166 100

165 94.8 81.4 122.0

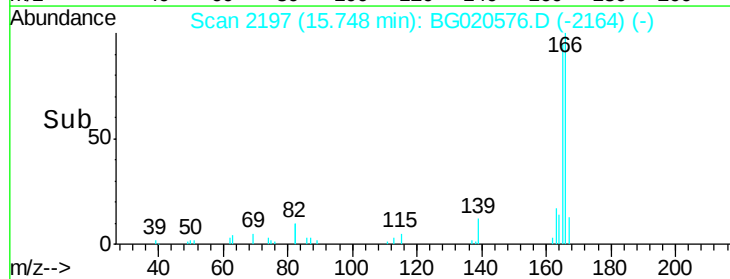
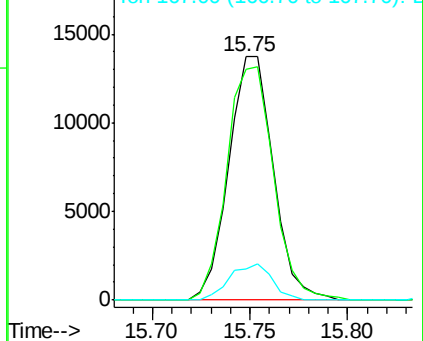
167 12.9 11.2 16.8

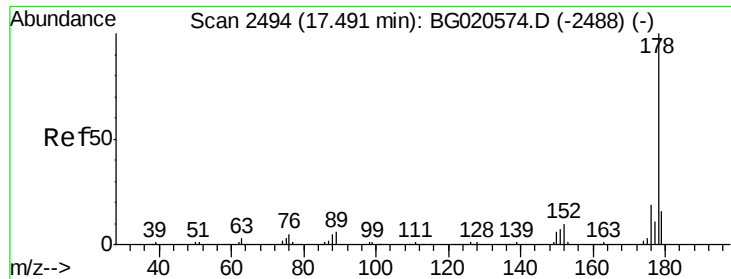


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 9.28 ng/ul

RT: 17.49 min Scan# 2494

Delta R.T. 0.00 min

Lab File: BG020576.D

Acq: 28 Dec 2015 23:07

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ClientSampleId :

D9N64DL

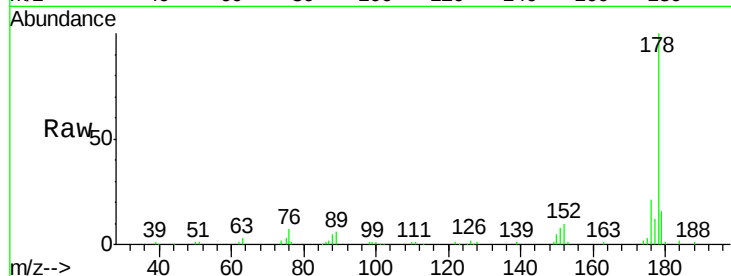
Tgt Ion:178 Resp: 67734

Ion Ratio Lower Upper

178 100

179 16.4 12.9 19.3

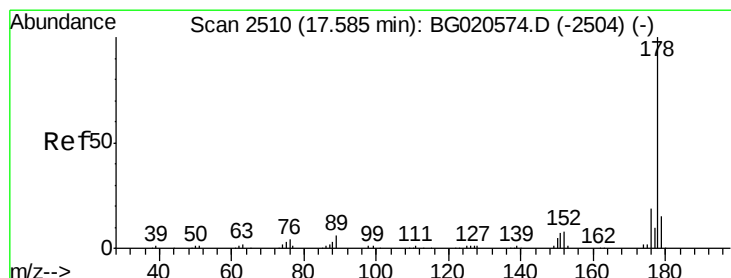
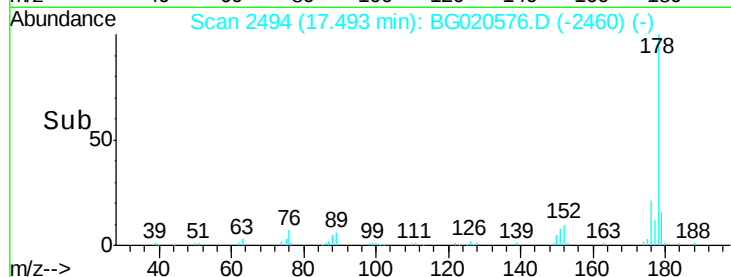
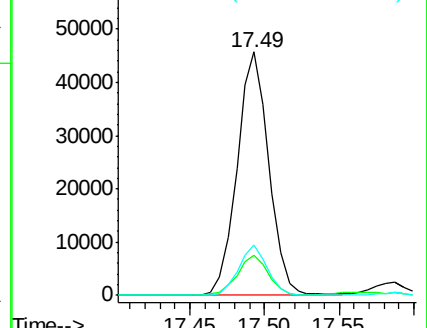
176 20.7 15.3 22.9



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



#72

Anthracene

Concen: 9.07 ng/ul

RT: 17.49 min Scan# 2494

Delta R.T. -0.09 min

Lab File: BG020576.D

Acq: 28 Dec 2015 23:07

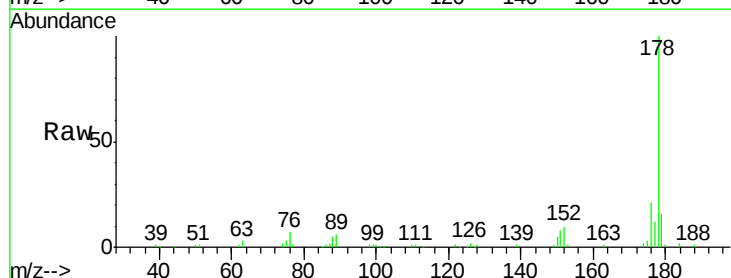
Tgt Ion:178 Resp: 67734

Ion Ratio Lower Upper

178 100

179 16.4 12.3 18.5

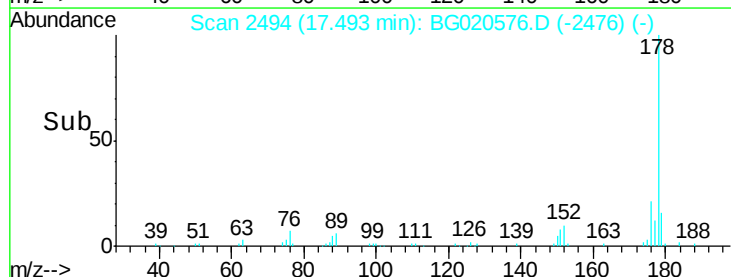
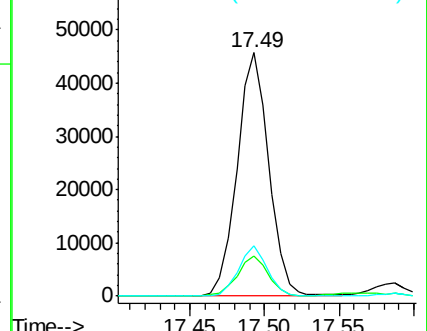
176 20.7 14.3 21.5

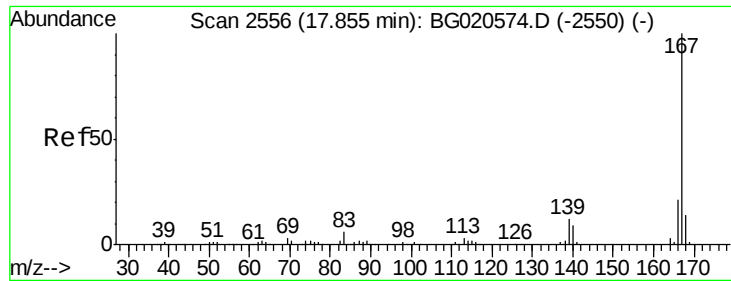


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 3.67 ng/ul

RT: 17.86 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BG020576.D

Acq: 28 Dec 2015 23:07

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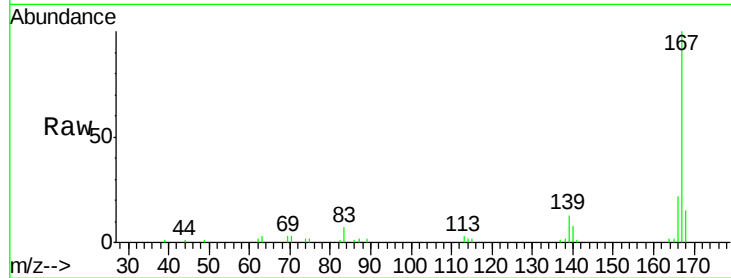
Tgt Ion:167 Resp: 23074

Ion Ratio Lower Upper

167 100

166 22.3 17.0 25.6

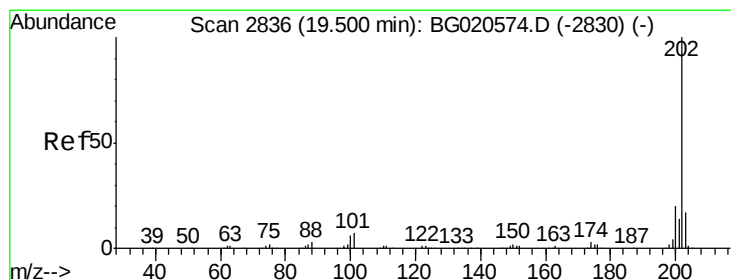
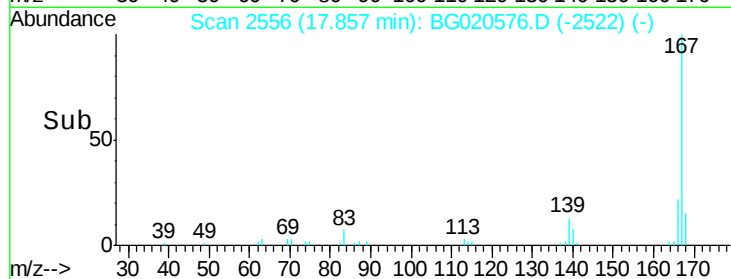
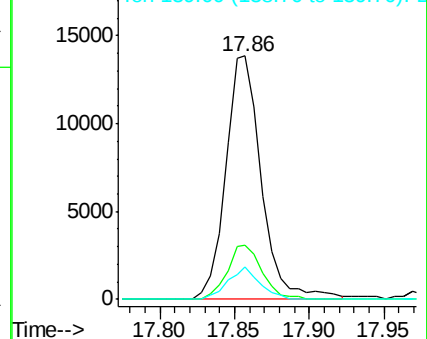
139 13.5 10.1 15.1



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#77

Fluoranthene

Concen: 1.68 ng/ul

RT: 19.50 min Scan# 2835

Delta R.T. -0.00 min

Lab File: BG020576.D

Acq: 28 Dec 2015 23:07

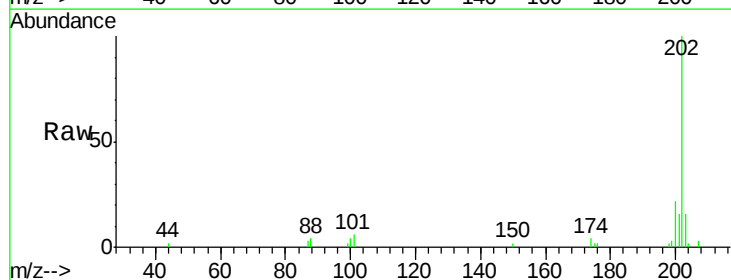
Tgt Ion:202 Resp: 15386

Ion Ratio Lower Upper

202 100

101 6.0 6.2 9.4#

100 4.0 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): B

