

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG080215\  
 Data File : BG018228.D  
 Acq On : 2 Aug 2015 16:25  
 Operator : TP  
 Sample : G3065-22RE  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C02G7RE

Manual Integrations  
 APPROVED

MMDadoda  
 8/4/2015 12:19:34 PM

Quant Time: Aug 03 09:53:51 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG073115.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Aug 03 05:58:42 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.48  | 152  | 154794   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.27 | 136  | 684020   | 20.00 | ng/ul | 0.01     |
| 36) Acenaphthene-d10      | 14.16 | 164  | 394743   | 20.00 | ng/ul | 0.01     |
| 62) Phenanthrene-d10      | 16.92 | 188  | 580851   | 20.00 | ng/ul | 0.01     |
| 78) Chrysene-d12          | 21.14 | 240  | 653084   | 20.00 | ng/ul | 0.02     |
| 86) Perylene-d12          | 23.33 | 264  | 620150   | 20.00 | ng/ul | 0.04     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 2.96  | 96  | 3715   | 1.81  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.69  | 99  | 184134 | 13.23 | ng/ul | 0.02 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.82  | 67  | 91458  | 12.86 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.02  | 132 | 158957 | 15.12 | ng/ul | 0.01 |
| 13) 4-Methylphenol-d8          | 8.22  | 113 | 117517 | 10.37 | ng/ul | 0.01 |
| 19) Nitrobenzene-d5            | 8.64  | 128 | 87401  | 16.22 | ng/ul | 0.01 |
| 22) 2-Nitrophenol-d4           | 9.36  | 143 | 97159  | 15.71 | ng/ul | 0.01 |
| 26) 2,4-Dichlorophenol-d3      | 9.91  | 165 | 168697 | 15.44 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.41 | 131 | 51600  | 3.79  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.58 | 166 | 484512 | 15.88 | ng/ul | 0.01 |
| 47) Acenaphthylene-d8          | 13.85 | 160 | 537904 | 15.21 | ng/ul | 0.01 |
| 52) 4-Nitrophenol-d4           | 14.42 | 143 | 50435  | 8.93  | ng/ul | 0.02 |
| 58) Fluorene-d10               | 15.17 | 176 | 339862 | 12.31 | ng/ul | 0.01 |
| 63) 4,6-Dinitro-2-methylphenol | 15.31 | 200 | 1700   | 0.42  | ng/ul | 0.02 |
| 71) Anthracene-d10             | 17.02 | 188 | 343055 | 13.58 | ng/ul | 0.02 |
| 79) Pyrene-d10                 | 19.34 | 212 | 325928 | 10.32 | ng/ul | 0.02 |
| 90) Benzo(a)pyrene-d12         | 23.19 | 264 | 341442 | 10.89 | ng/ul | 0.04 |

## Target Compounds

|                                |       |     |         |       |        | Qvalue |
|--------------------------------|-------|-----|---------|-------|--------|--------|
| 28) Naphthalene                | 10.31 | 128 | 80812   | 2.45  | ng/ul  | 99     |
| 45) Dimethylphthalate          | 13.63 | 163 | 227336  | 7.49  | ng/ul  | 99     |
| 50) Acenaphthene               | 14.23 | 153 | 113363  | 4.95  | ng/ul  | 97     |
| 54) Dibenzofuran               | 14.56 | 168 | 72959   | 2.12  | ng/ul# | 77     |
| 59) Fluorene                   | 15.22 | 166 | 88366   | 2.97  | ng/ul  | 97     |
| 70) Phenanthrene               | 16.97 | 178 | 861713  | 29.20 | ng/ul  | 98     |
| 72) Anthracene                 | 17.06 | 178 | 221078  | 7.53  | ng/ul  | 98     |
| 75) Carbazole                  | 17.34 | 167 | 80484   | 3.30  | ng/ul  | 98     |
| 77) Fluoranthene               | 19.00 | 202 | 1063107 | 32.80 | ng/ul# | 93     |
| 80) Pyrene                     | 19.37 | 202 | 911891  | 23.02 | ng/ul# | 92     |
| 81) Butylbenzylphthalate       | 20.27 | 149 | 71429   | 4.44  | ng/ul# | 83     |
| 83) Benzo(a)anthracene         | 21.13 | 228 | 535122  | 15.22 | ng/ul  | 98     |
| 84) Bis(2-ethylhexyl)phthalate | 21.05 | 149 | 127568  | 5.88  | ng/ul  | 97     |
| 85) Chrysene                   | 21.17 | 228 | 545699  | 16.94 | ng/ul  | 97     |
| 88) Benzo(b)fluoranthene       | 22.68 | 252 | 686393  | 18.42 | ng/ul# | 96     |
| 89) Benzo(k)fluoranthene       | 22.71 | 252 | 295142m | 8.62  | ng/ul  |        |
| 91) Benzo(a)pyrene             | 23.24 | 252 | 444268  | 13.33 | ng/ul  | 95     |
| 92) Indeno(1,2,3-cd)pyrene     | 25.56 | 276 | 220198  | 5.71  | ng/ul# | 85     |
| 93) Dibenzo(a,h)anthracene     | 25.56 | 278 | 56228m  | 1.70  | ng/ul  |        |
| 94) Benzo(g,h,i)perylene       | 26.23 | 276 | 173308  | 5.50  | ng/ul# | 89     |

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

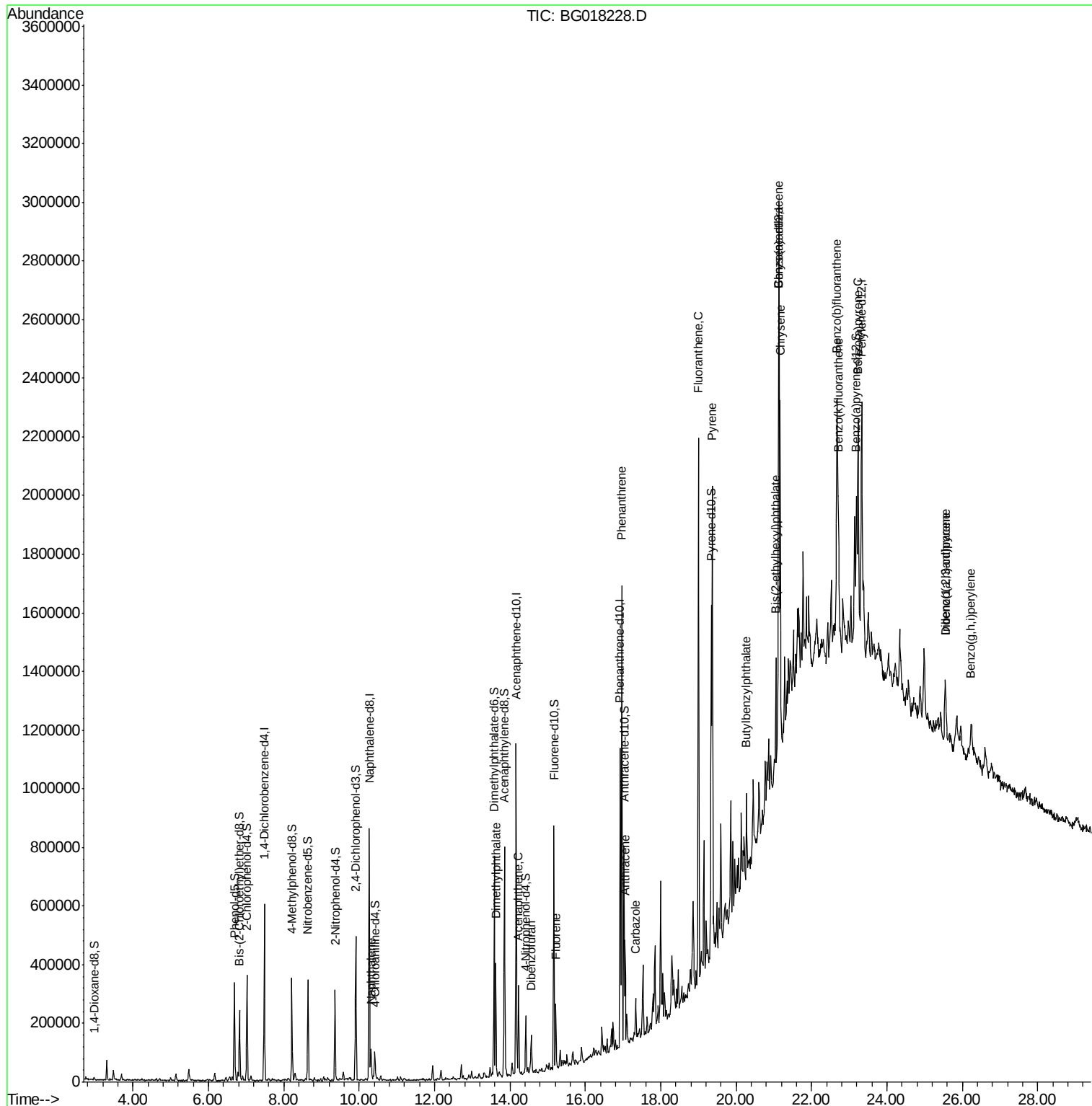
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG080215\  
Data File : BG018228.D  
Acq On : 2 Aug 2015 16:25  
Operator : TP  
Sample : G3065-22RE  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

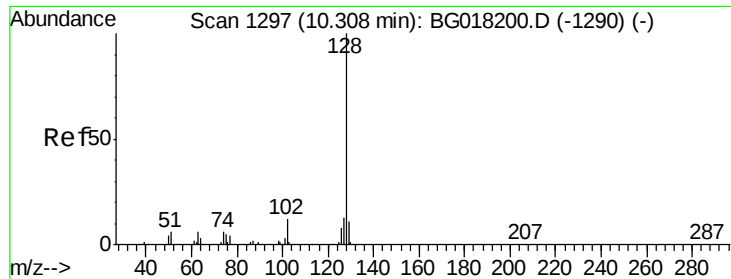
Instrument :  
BNA\_G  
ClientSampleId :  
C02G7RE

Manual Integrations  
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8/4/2015 12:19:34 PM

Quant Time: Aug 03 09:53:51 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG073115.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Aug 03 05:58:42 2015  
Response via : Initial Calibration





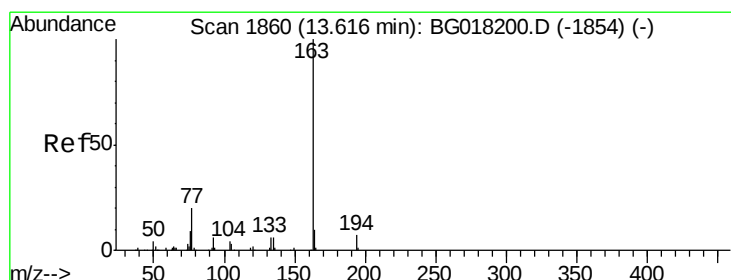
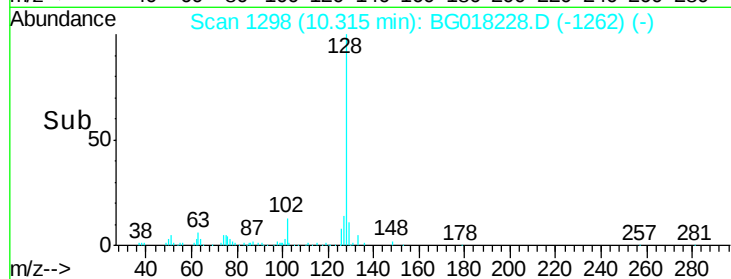
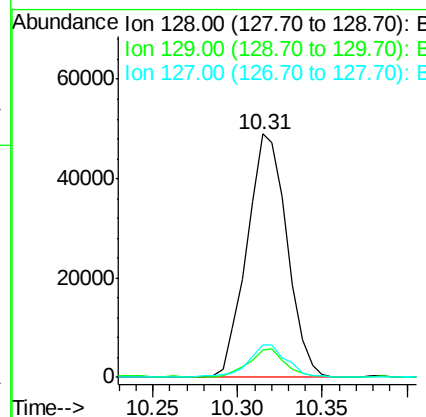
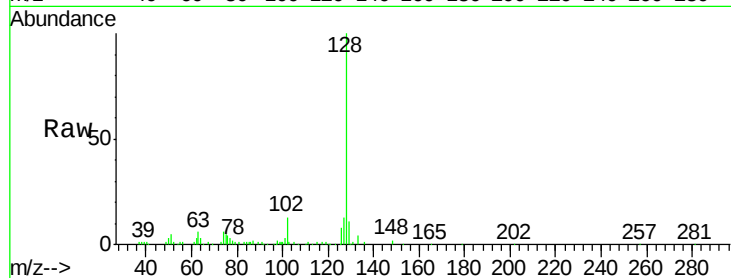
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Naphthalene  
Concen: 2.45 ng/ul  
RT: 10.31 min Scan# 1298  
Delta R.T. 0.01 min  
Lab File: BG018228.D  
Acq: 2 Aug 2015 16:25

Instrument :  
BNA\_G  
ClientSampleId :  
C02G7RE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.3  | 9.1   | 13.7  |
| 127     | 13.5  | 11.2  | 16.8  |

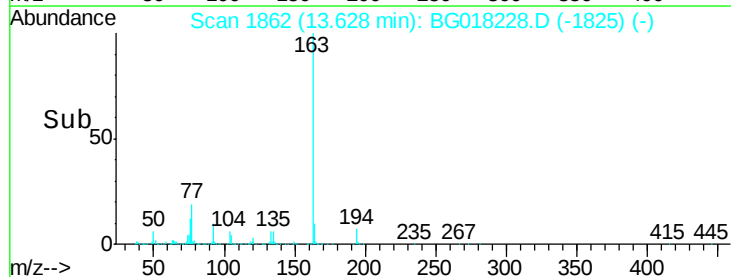
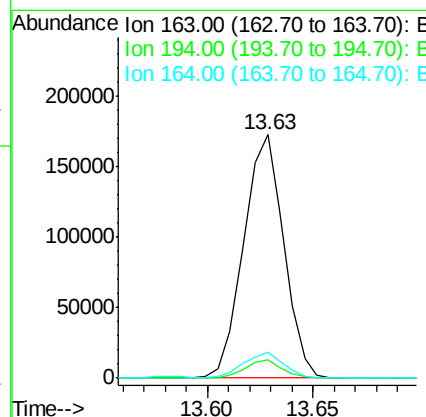
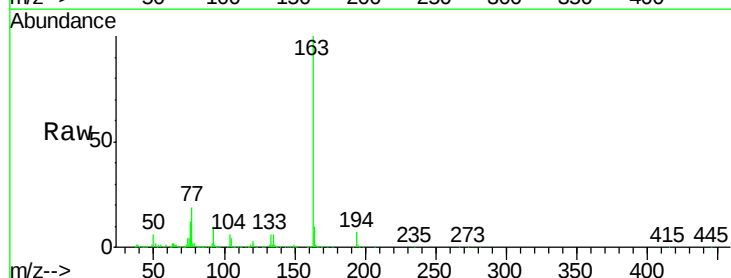
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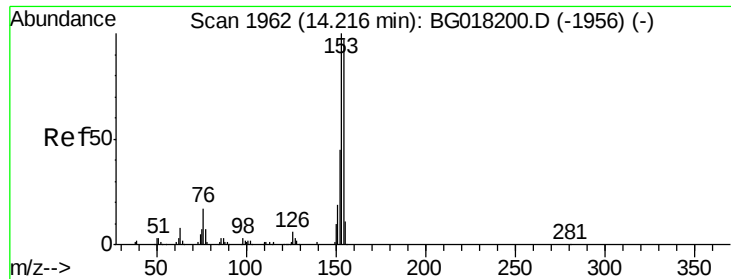
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#45  
Dimethylphthalate  
Concen: 7.49 ng/ul  
RT: 13.63 min Scan# 1862  
Delta R.T. 0.01 min  
Lab File: BG018228.D  
Acq: 2 Aug 2015 16:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 7.3   | 5.2   | 7.8   |
| 164     | 10.4  | 8.4   | 12.6  |





#50

Acenaphthene

Concen: 4.95 ng/ul

RT: 14.23 min Scan# 1964

Delta R.T. 0.01 min

Lab File: BG018228.D

Acq: 2 Aug 2015 16:25

Instrument :

BNA\_G

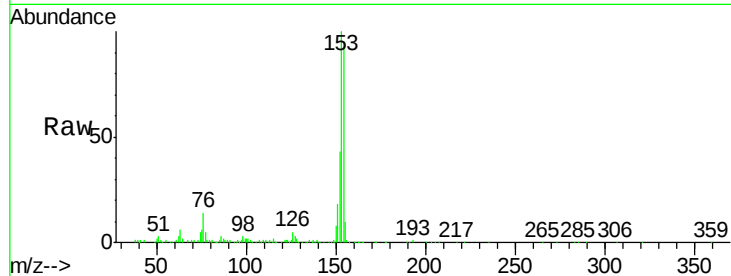
ClientSampleId :

C02G7RE

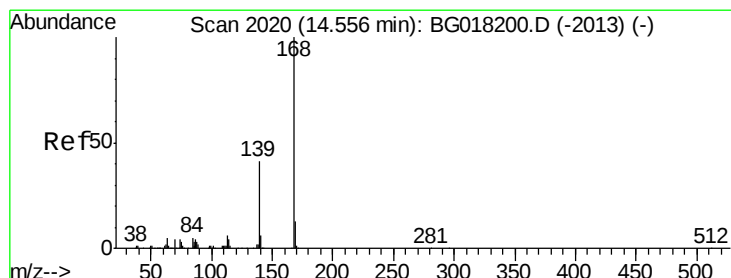
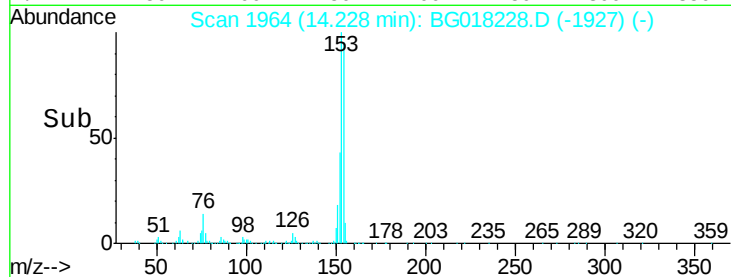
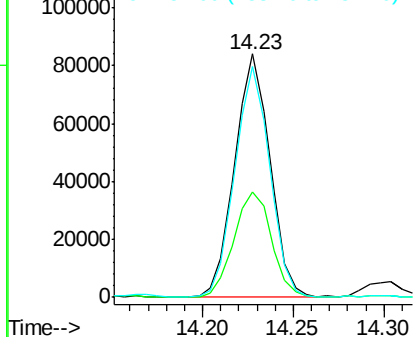
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 113363 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 43.2  | 38.7  | 58.1   |
| 154       | 94.6  | 74.8  | 112.2  |

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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

Dibenzofuran

Concen: 2.12 ng/ul

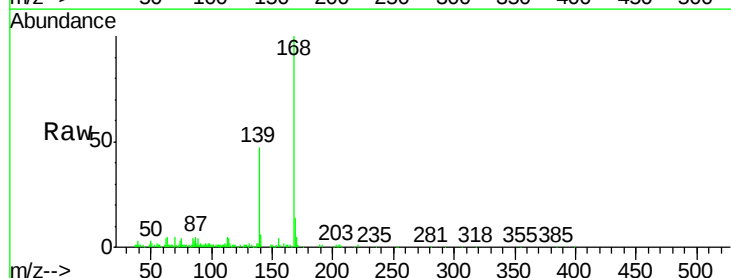
RT: 14.56 min Scan# 2021

Delta R.T. 0.01 min

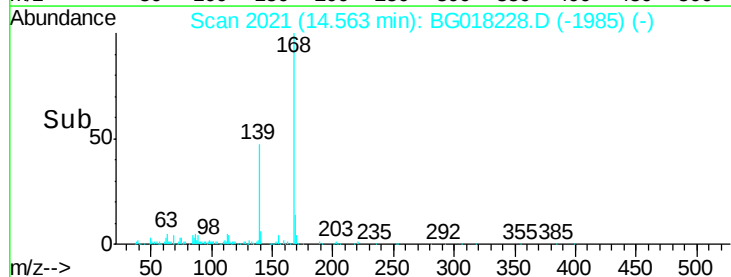
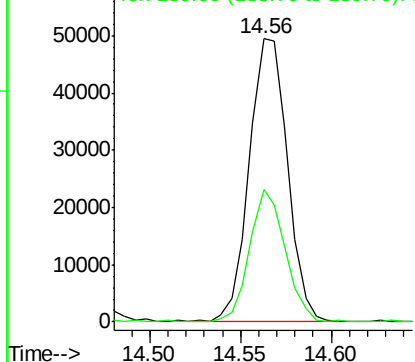
Lab File: BG018228.D

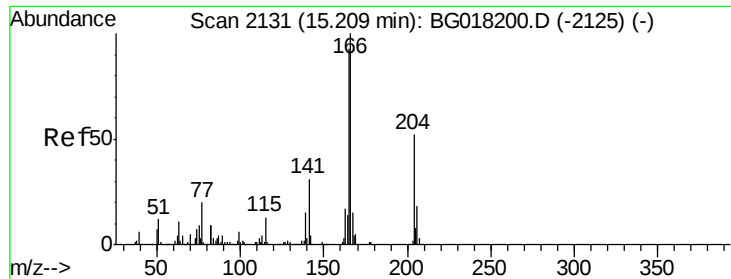
Acq: 2 Aug 2015 16:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 72959 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 46.8  | 26.8  | 40.2# |



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E





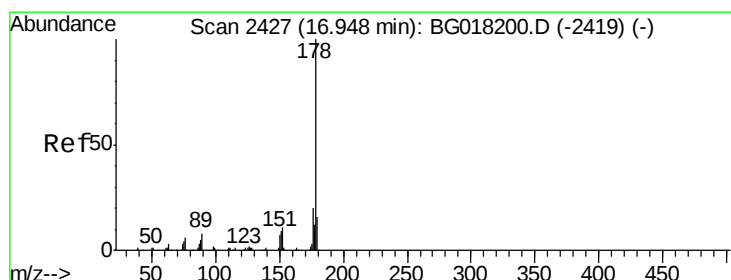
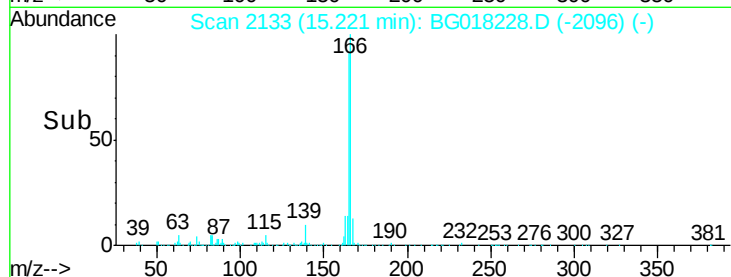
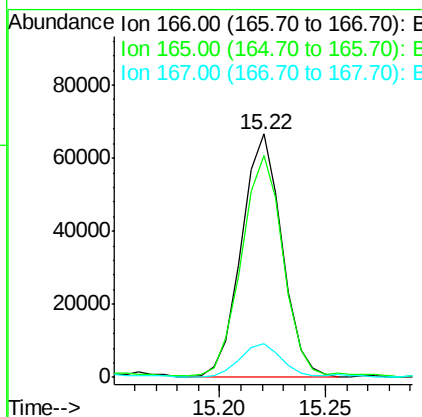
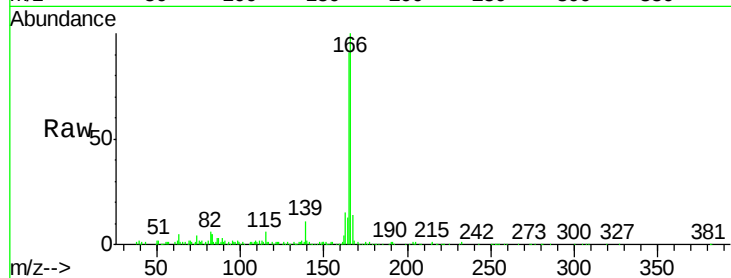
#59  
 Fluorene  
 Concen: 2.97 ng/ul  
 RT: 15.22 min Scan# 2133  
 Delta R.T. 0.01 min  
 Lab File: BG018228.D  
 Acq: 2 Aug 2015 16:25

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C02G7RE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 91.3  | 75.1  | 112.7 |
| 167     | 13.6  | 11.8  | 17.6  |

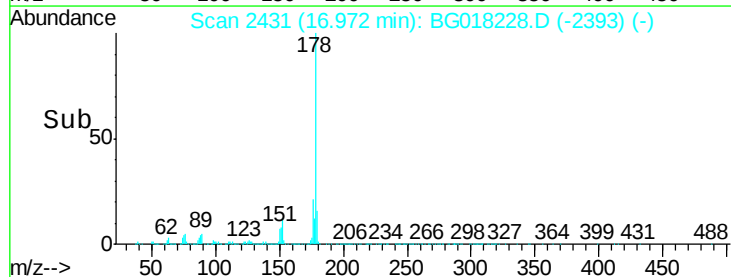
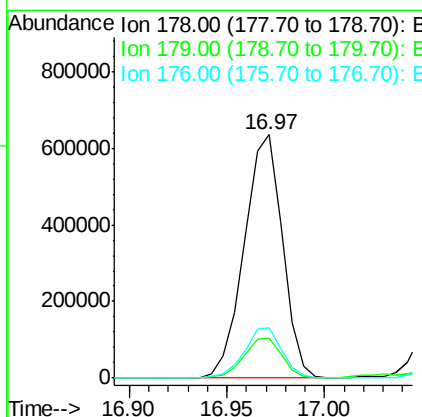
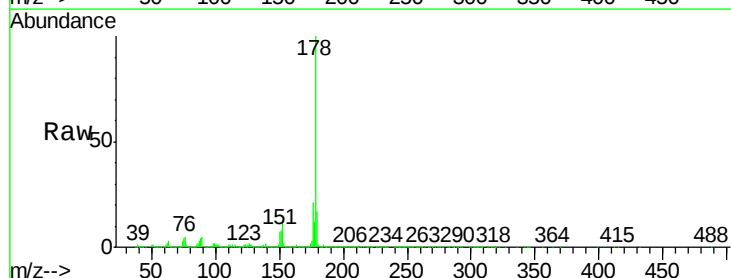
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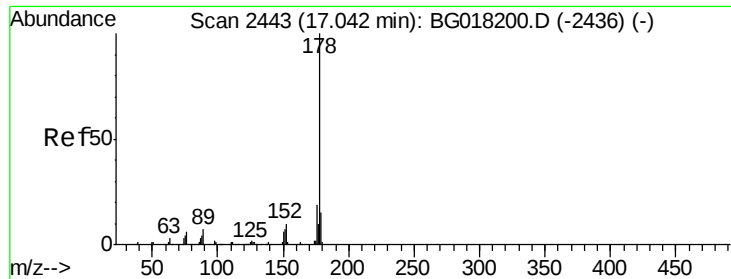
MMDadoda  
 8/4/2015 12:19:34 PM



#70  
 Phenanthrene  
 Concen: 29.20 ng/ul  
 RT: 16.97 min Scan# 2431  
 Delta R.T. 0.02 min  
 Lab File: BG018228.D  
 Acq: 2 Aug 2015 16:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.5  | 12.8  | 19.2  |
| 176     | 20.9  | 16.0  | 24.0  |





#72

Anthracene

Concen: 7.53 ng/ul

RT: 17.06 min Scan# 2446

Delta R.T. 0.02 min

Lab File: BG018228.D

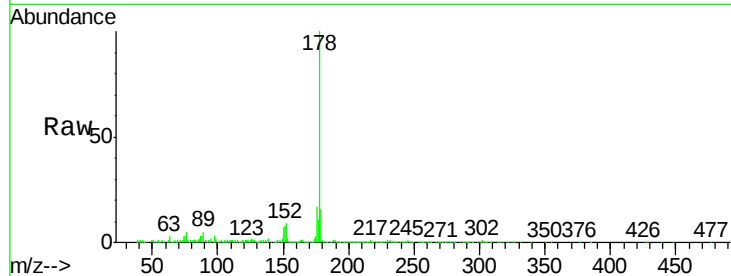
Acq: 2 Aug 2015 16:25

Instrument :

BNA\_G

ClientSampleId :

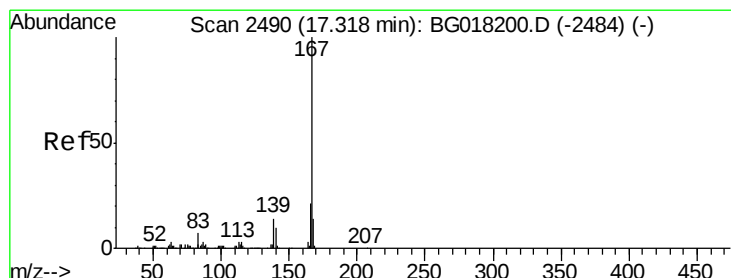
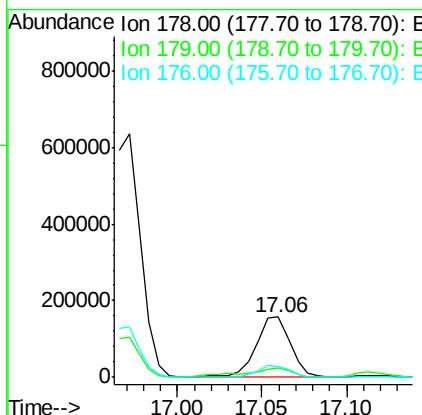
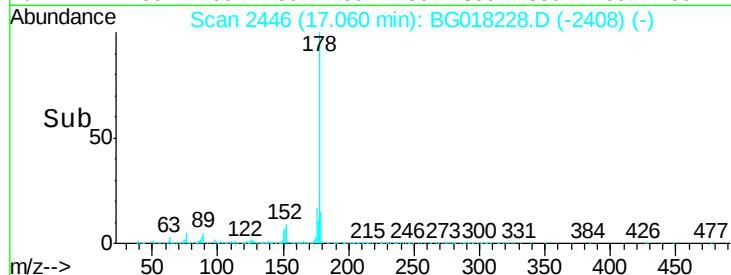
C02G7RE



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 221078 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.7  | 12.2  | 18.2   |
| 176       | 17.4  | 14.8  | 22.2   |

Manual Integrations  
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#75

Carbazole

Concen: 3.30 ng/ul

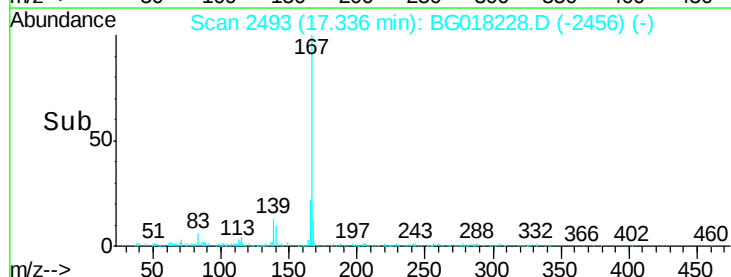
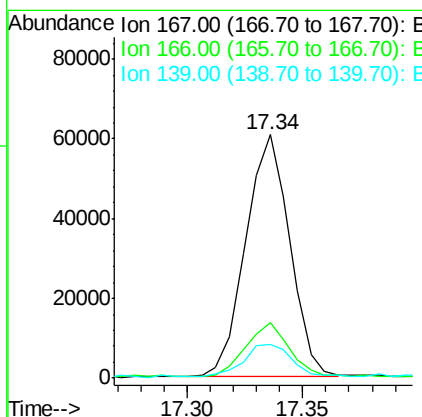
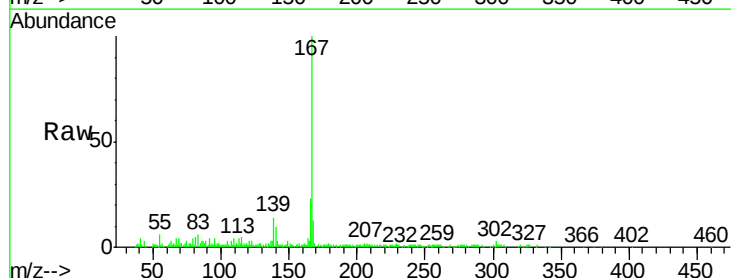
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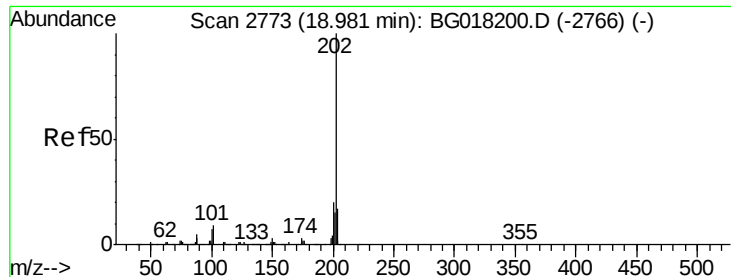
Delta R.T. 0.01 min

Lab File: BG018228.D

Acq: 2 Aug 2015 16:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 167   | Resp: | 80484 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 22.5  | 17.5  | 26.3  |
| 139       | 13.7  | 10.1  | 15.1  |





#77

Fluoranthene

Concen: 32.80 ng/ul

RT: 19.00 min Scan# 2777

Delta R.T. 0.03 min

Lab File: BG018228.D

Acq: 2 Aug 2015 16:25

Instrument :

BNA\_G

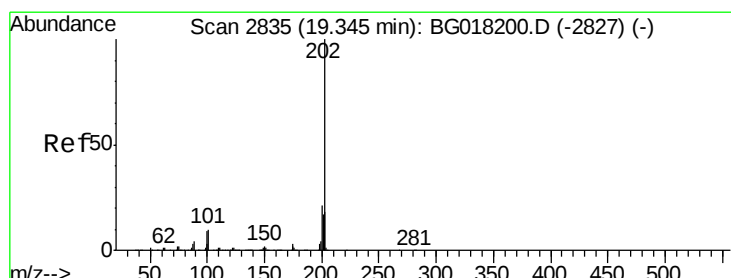
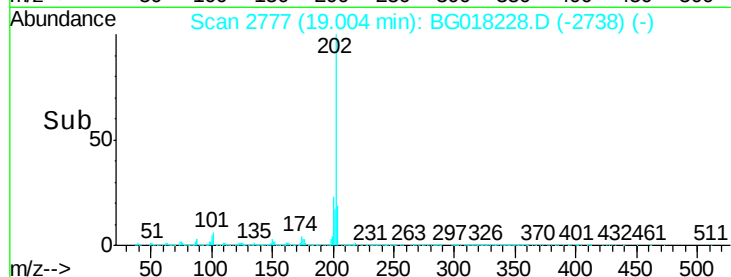
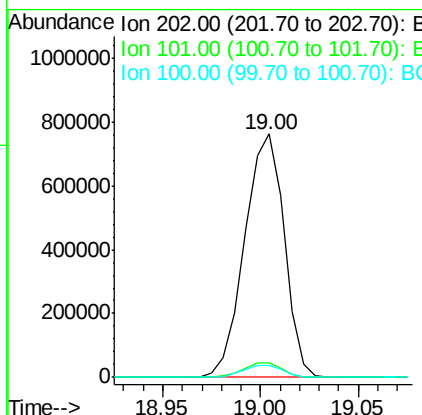
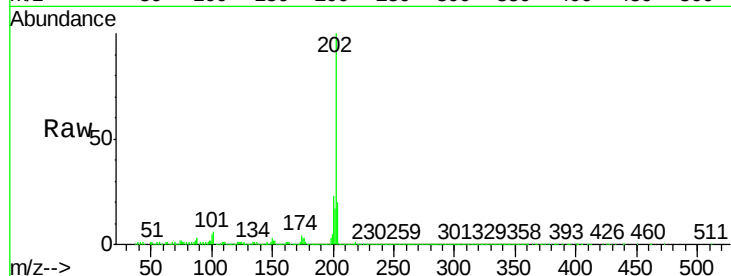
ClientSampleId :

C02G7RE

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1063107 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 6.2   | 7.5   | 11.3#   |
| 100       | 5.0   | 5.5   | 8.3#    |

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#80

Pyrene

Concen: 23.02 ng/ul

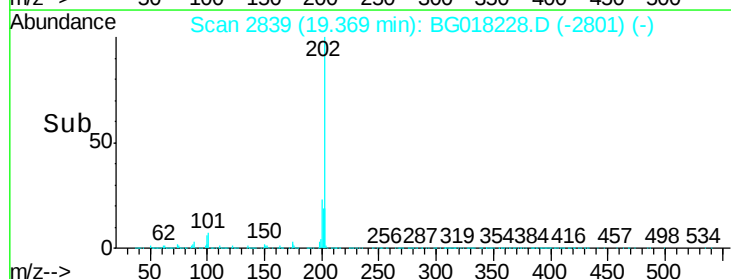
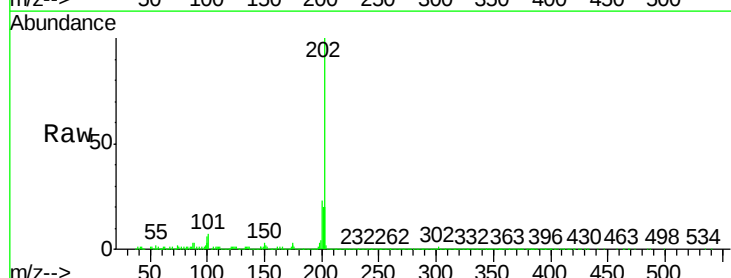
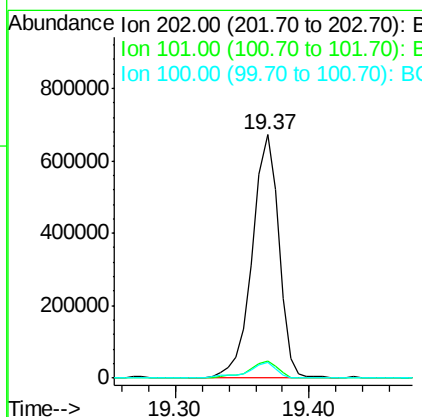
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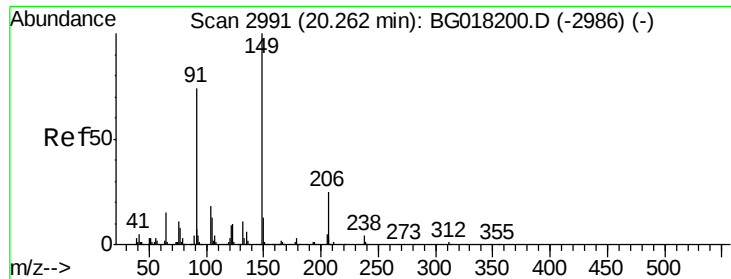
Delta R.T. 0.02 min

Lab File: BG018228.D

Acq: 2 Aug 2015 16:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 911891 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 7.0   | 8.1   | 12.1#  |
| 100       | 6.2   | 7.4   | 11.0#  |





#81

Butylbenzylphthalate

Concen: 4.44 ng/ul

RT: 20.27 min Scan# 2993

Delta R.T. 0.01 min

Lab File: BG018228.D

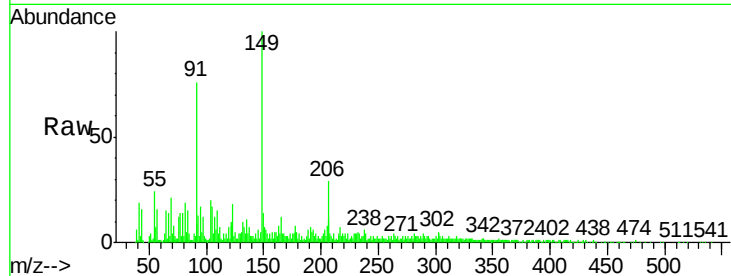
Acq: 2 Aug 2015 16:25

Instrument :

BNA\_G

ClientSampleId :

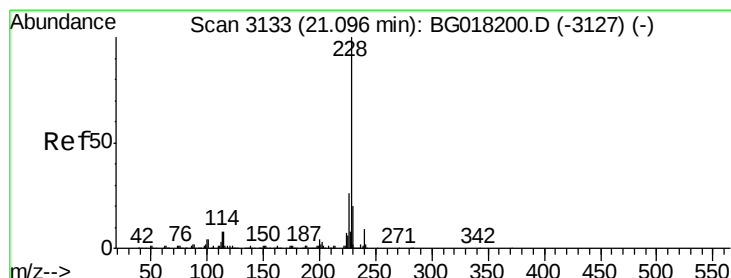
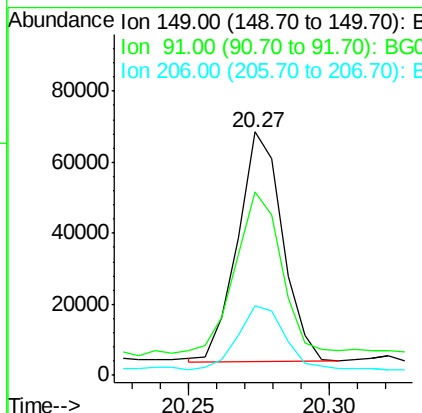
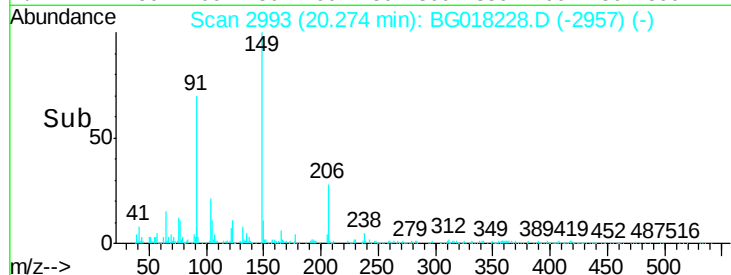
C02G7RE



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 71429 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 91        | 75.5  | 46.6  | 69.8# |
| 206       | 28.7  | 21.8  | 32.8  |

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#83

Benzo(a)anthracene

Concen: 15.22 ng/ul

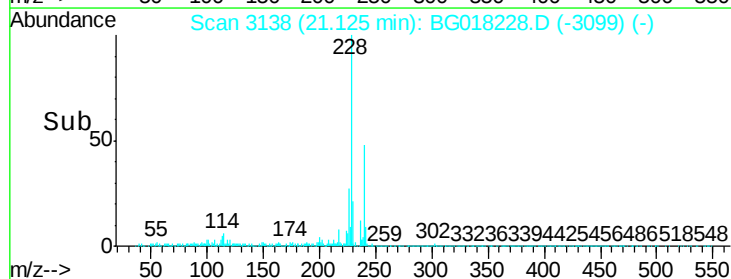
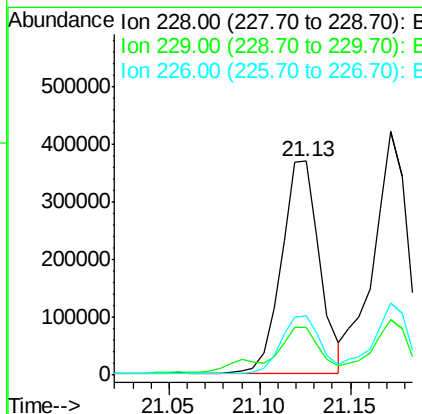
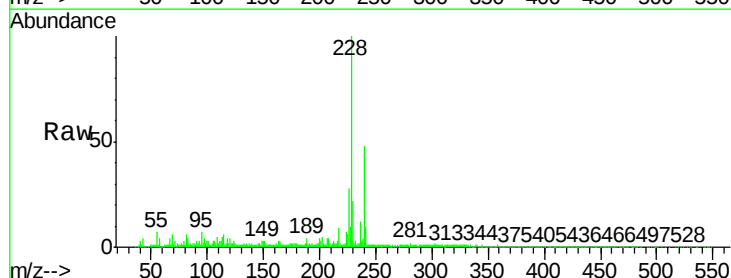
RT: 21.13 min Scan# 3138

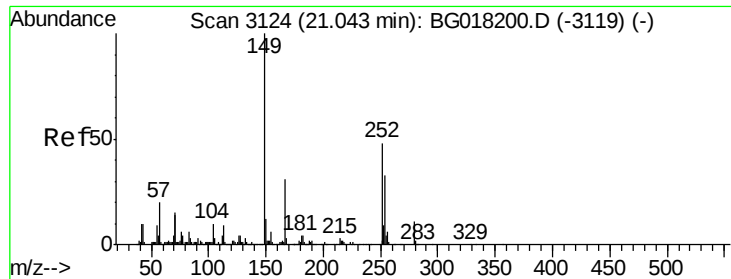
Delta R.T. 0.03 min

Lab File: BG018228.D

Acq: 2 Aug 2015 16:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 535122 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 22.2  | 16.5  | 24.7   |
| 226       | 27.8  | 21.5  | 32.3   |





#84

Bis(2-ethylhexyl)phthalate

Concen: 5.88 ng/ul

RT: 21.05 min Scan# 3126

Delta R.T. 0.01 min

Lab File: BG018228.D

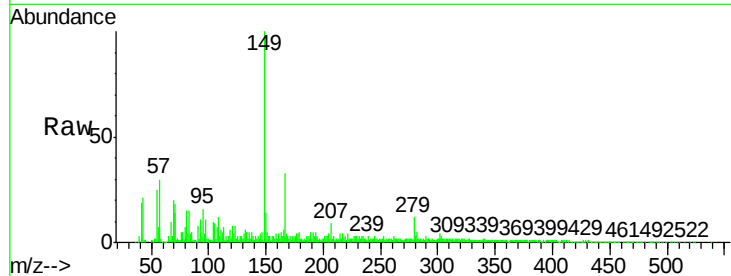
Acq: 2 Aug 2015 16:25

Instrument :

BNA\_G

ClientSampleId :

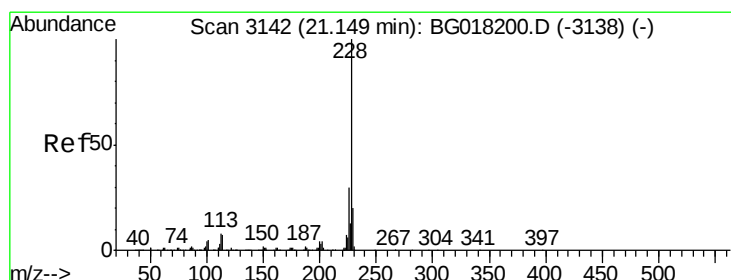
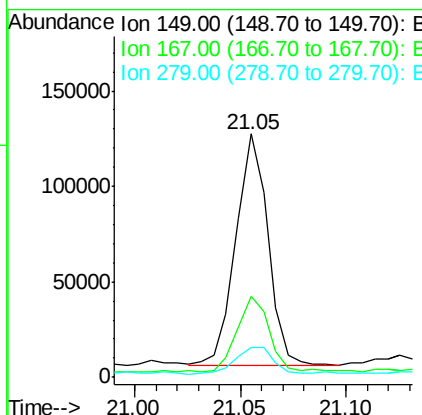
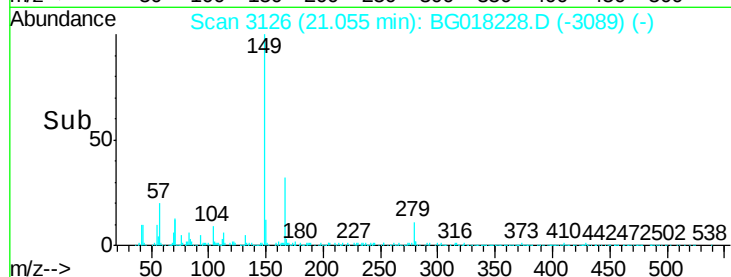
C02G7RE



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 33.0  | 27.4  | 41.2  |
| 279     | 12.3  | 8.3   | 12.5  |

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#85

Chrysene

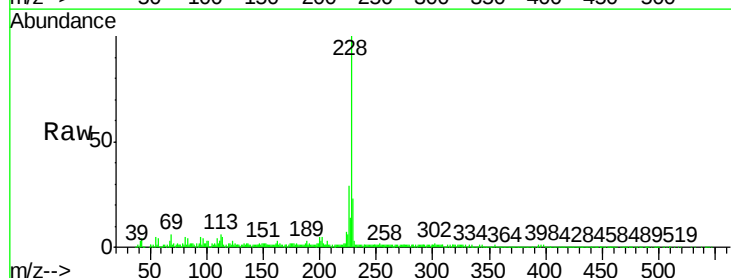
Concen: 16.94 ng/ul

RT: 21.17 min Scan# 3146

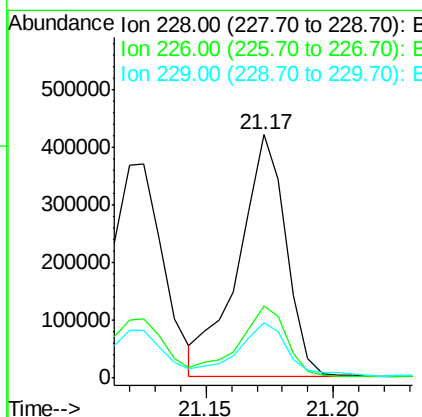
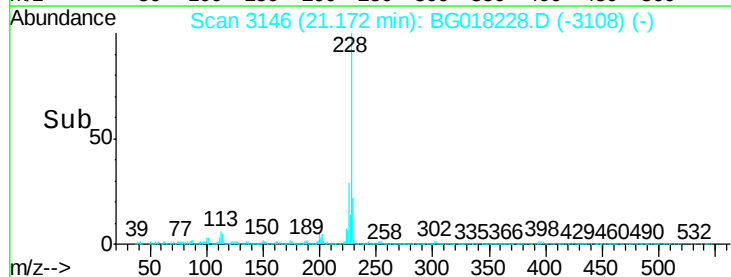
Delta R.T. 0.02 min

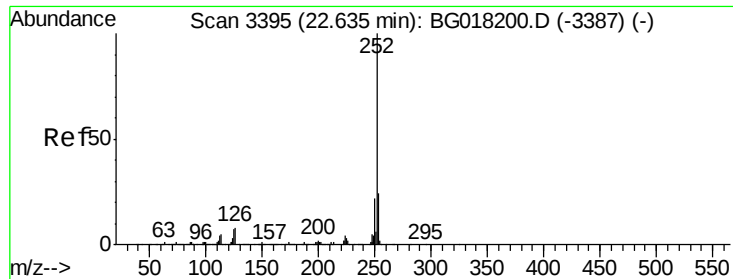
Lab File: BG018228.D

Acq: 2 Aug 2015 16:25



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.4  | 22.7  | 34.1  |
| 229     | 22.8  | 16.2  | 24.2  |





#88

Benzo(b)fluoranthene

Concen: 18.42 ng/ul

RT: 22.68 min Scan# 3402

Delta R.T. 0.04 min

Lab File: BG018228.D

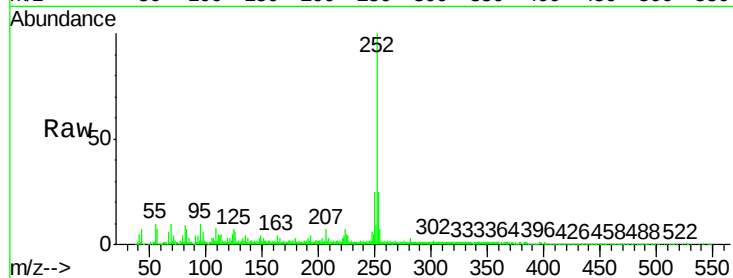
Acq: 2 Aug 2015 16:25

Instrument :

BNA\_G

ClientSampleId :

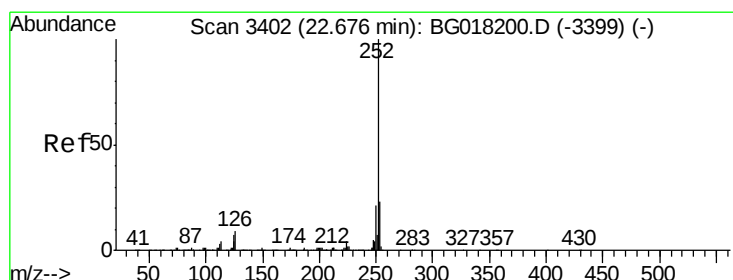
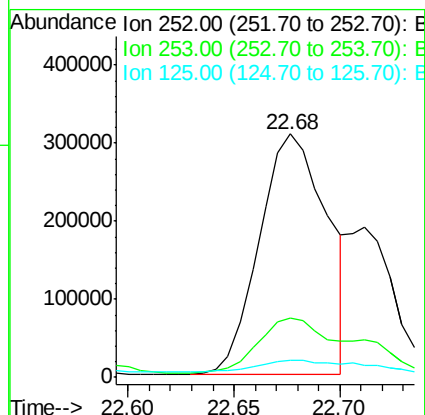
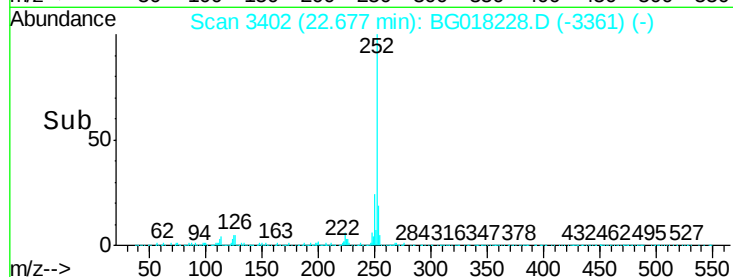
C02G7RE



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 686393 |       |       |
| 253     | 24.5  | 18.5   | 27.7  |       |
| 125     | 7.1   | 7.4    | 11.0  |       |

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#89

Benzo(k)fluoranthene

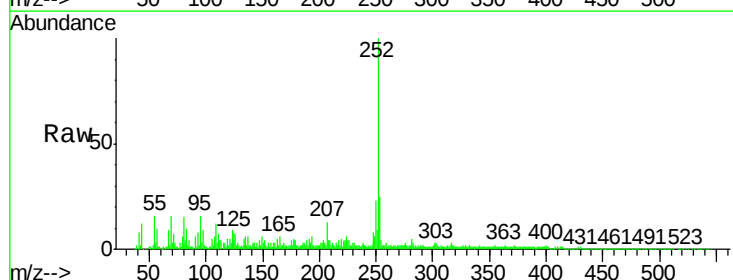
Concen: 8.62 ng/ul m

RT: 22.71 min Scan# 3408

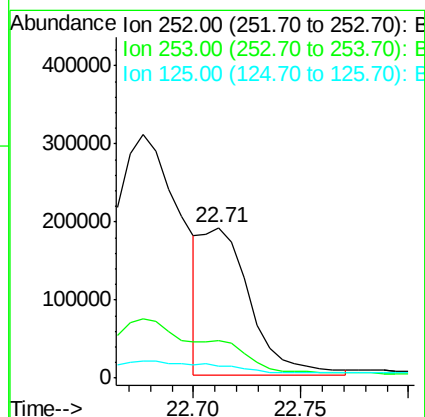
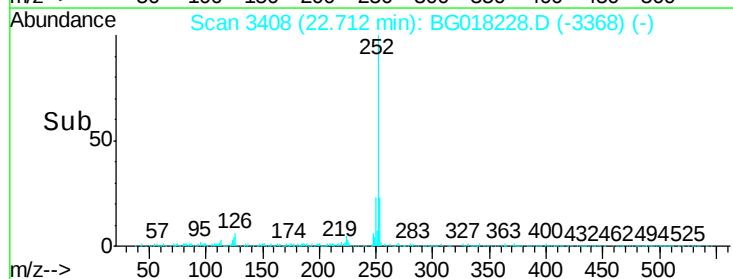
Delta R.T. 0.03 min

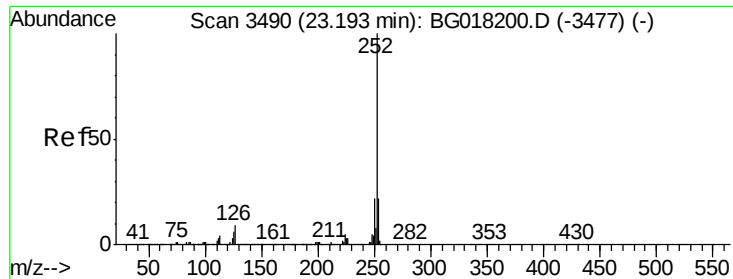
Lab File: BG018228.D

Acq: 2 Aug 2015 16:25



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 295142 |       |       |
| 253     | 25.1  | 18.2   | 27.2  |       |
| 125     | 7.9   | 7.5    | 11.3  |       |





#91

Benzo(a)pyrene

Concen: 13.33 ng/ul

RT: 23.24 min Scan# 3498

Delta R.T. 0.04 min

Lab File: BG018228.D

Acq: 2 Aug 2015 16:25

Instrument :

BNA\_G

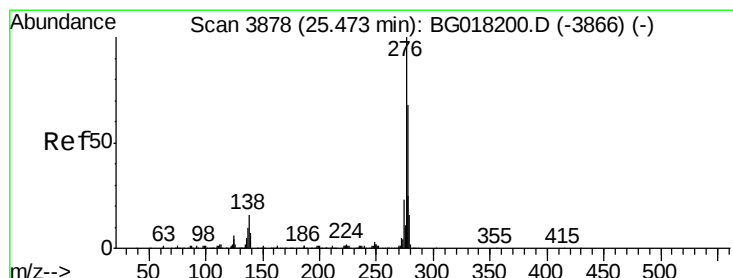
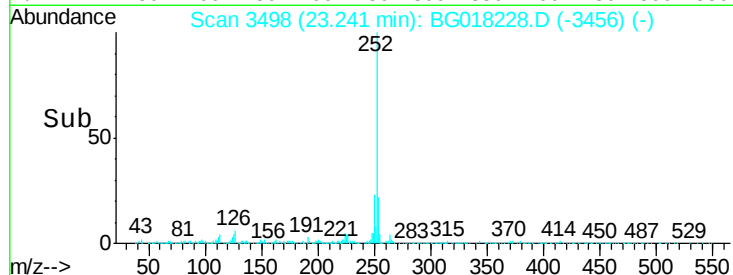
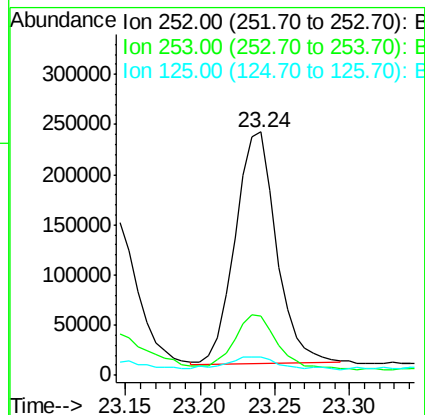
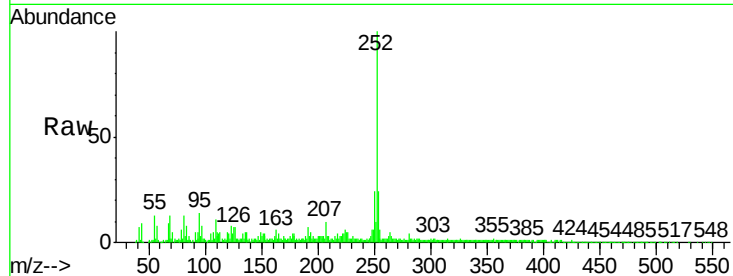
ClientSampleId :

C02G7RE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 444268 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.3  | 17.4  | 26.2   |
| 125       | 7.4   | 7.3   | 10.9   |

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#92

Indeno(1,2,3-cd)pyrene

Concen: 5.71 ng/ul

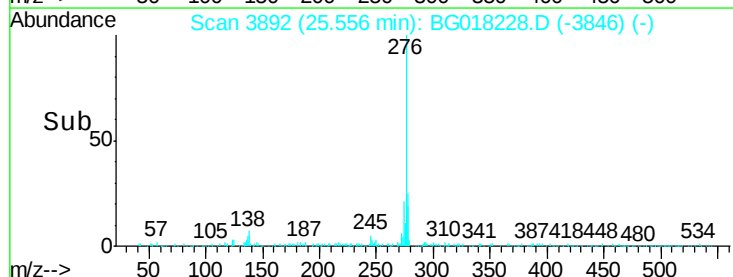
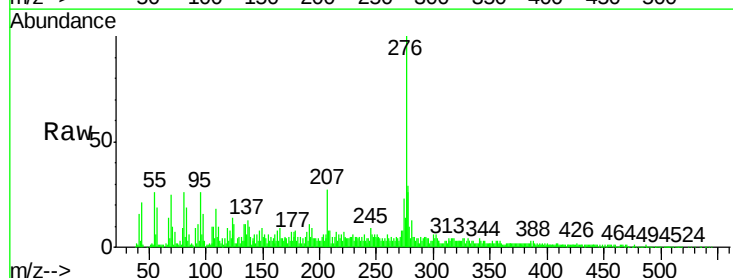
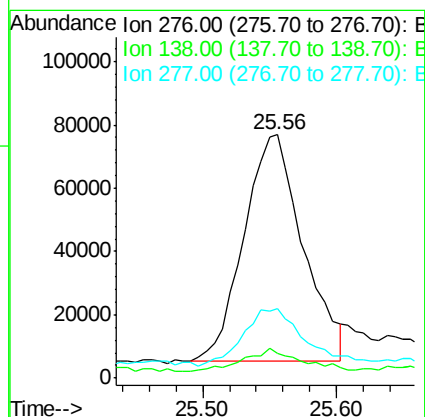
RT: 25.56 min Scan# 3892

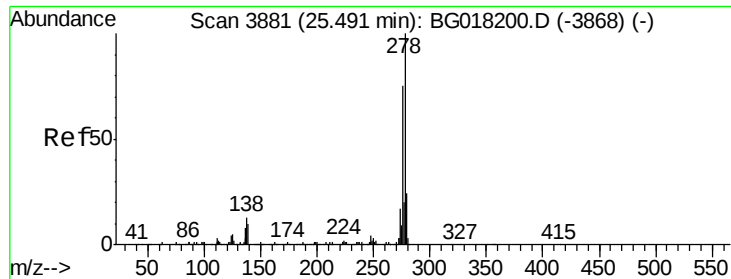
Delta R.T. 0.07 min

Lab File: BG018228.D

Acq: 2 Aug 2015 16:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 220198 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 10.4  | 17.2  | 25.8#  |
| 277       | 28.5  | 19.5  | 29.3   |





#93

Dibenzo(a,h)anthracene

Concen: 1.70 ng/ul m

RT: 25.56 min Scan# 3893

Delta R.T. 0.07 min

Lab File: BG018228.D

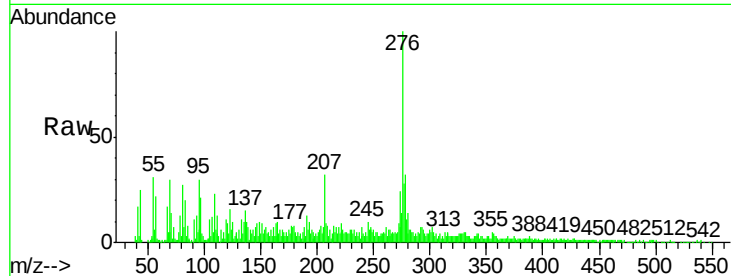
Acq: 2 Aug 2015 16:25

Instrument :

BNA\_G

ClientSampleId :

C02G7RE



Tgt Ion:278 Resp: 56228

Ion Ratio Lower Upper

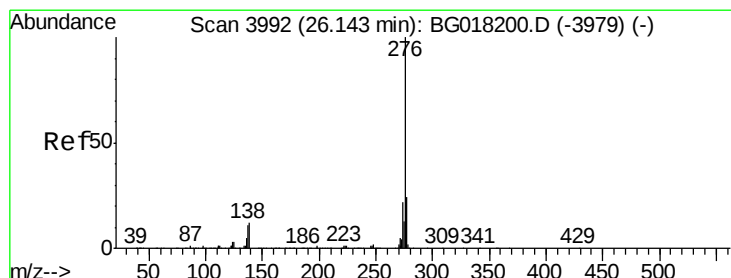
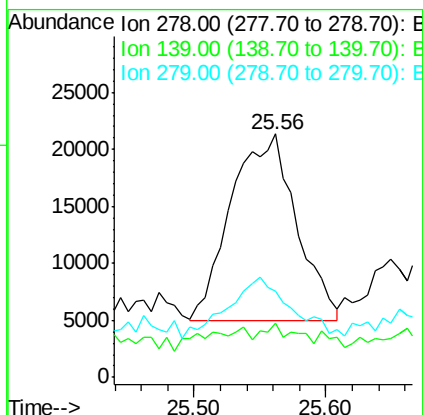
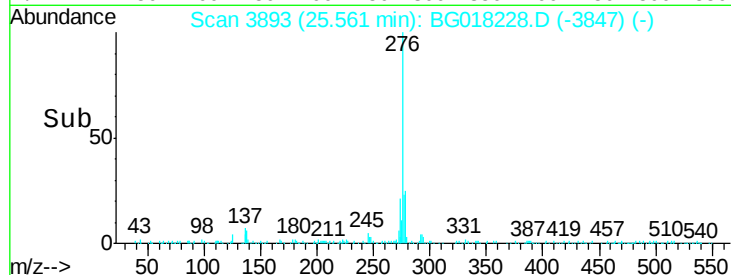
278 100

139 22.5 12.2 18.2#

279 35.6 20.0 30.0#

Manual Integrations  
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#94

Benzo(g,h,i)perylene

Concen: 5.50 ng/ul

RT: 26.23 min Scan# 4007

Delta R.T. 0.08 min

Lab File: BG018228.D

Acq: 2 Aug 2015 16:25

Tgt Ion:276 Resp: 173308

Ion Ratio Lower Upper

276 100

138 11.6 15.1 22.7#

277 27.8 19.8 29.6

