

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG081215\  
 Data File : BG018396.D  
 Acq On : 12 Aug 2015 11:49  
 Operator : UM/MA  
 Sample : G3109-13 DL 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 C01P9DL

Manual Integrations  
 APPROVED

MMDadoda  
 8/13/2015 5:39:25 PM

Quant Time: Aug 14 03:10:43 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 13 01:43:01 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.03  | 152  | 77267    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.83 | 136  | 383294   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.65 | 164  | 242354   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.40 | 188  | 554949   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.66 | 240  | 487029   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.89 | 264  | 457697   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |        |      |       |       |
|--------------------------------|-------|-----|--------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0d     | 0.00 | ng/uL |       |
| 5) Phenol-d5                   | 7.18  | 99  | 24951  | 3.56 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.34  | 67  | 16757  | 3.86 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.56  | 132 | 20022  | 3.73 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.73  | 113 | 20057  | 3.40 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.18  | 128 | 10192  | 3.41 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.91  | 143 | 12139  | 3.99 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.45 | 165 | 22069  | 3.42 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.95 | 131 | 11366  | 1.56 | ng/ul | -0.01 |
| 44) Dimethylphthalate-d6       | 14.05 | 166 | 73622  | 3.61 | ng/ul | 0.00  |
| 47) Acenaphthylene-d8          | 14.35 | 160 | 88790  | 3.46 | ng/ul | 0.00  |
| 52) 4-Nitrophenol-d4           | 14.84 | 143 | 7349   | 2.00 | ng/ul | 0.00  |
| 58) Fluorene-d10               | 15.64 | 176 | 63658  | 3.58 | ng/ul | 0.00  |
| 63) 4,6-Dinitro-2-methylphenol | 15.75 | 200 | 6967   | 2.55 | ng/ul | 0.00  |
| 71) Anthracene-d10             | 17.49 | 188 | 92039m | 3.47 | ng/ul | 0.00  |
| 79) Pyrene-d10                 | 19.78 | 212 | 91454  | 3.62 | ng/ul | 0.00  |
| 90) Benzo(a)pyrene-d12         | 24.67 | 264 | 79326  | 3.26 | ng/ul | 0.00  |

## Target Compounds

|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 28) Naphthalene                | 10.88 | 128 | 47392  | 2.34  | ng/ul# | 94     |
| 34) 2-Methylnaphthalene        | 12.49 | 142 | 30015  | 2.05  | ng/ul  | 98     |
| 45) Dimethylphthalate          | 14.10 | 163 | 28022  | 1.39  | ng/ul# | 95     |
| 50) Acenaphthene               | 14.71 | 153 | 34173  | 1.89  | ng/ul  | 92     |
| 54) Dibenzofuran               | 15.05 | 168 | 30413  | 1.29  | ng/ul  | 93     |
| 59) Fluorene                   | 15.70 | 166 | 36961  | 1.82  | ng/ul  | 98     |
| 70) Phenanthrene               | 17.44 | 178 | 195399 | 6.49  | ng/ul  | 98     |
| 72) Anthracene                 | 17.53 | 178 | 46226  | 1.51  | ng/ul  | 100    |
| 77) Fluoranthene               | 19.45 | 202 | 234096 | 7.28  | ng/ul  | 96     |
| 80) Pyrene                     | 19.81 | 202 | 213642 | 6.49  | ng/ul  | 95     |
| 81) Butylbenzylphthalate       | 20.69 | 149 | 59210  | 4.25  | ng/ul  | 91     |
| 83) Benzo(a)anthracene         | 21.65 | 228 | 79550  | 2.63  | ng/ul# | 90     |
| 84) Bis(2-ethylhexyl)phthalate | 21.56 | 149 | 620049 | 31.50 | ng/ul  | 98     |
| 85) Chrysene                   | 21.70 | 228 | 74276  | 2.63  | ng/ul# | 95     |
| 88) Benzo(b)fluoranthene       | 23.87 | 252 | 106374 | 3.70  | ng/ul# | 41     |
| 89) Benzo(k)fluoranthene       | 23.92 | 252 | 29865m | 1.08  | ng/ul  |        |
| 91) Benzo(a)pyrene             | 24.74 | 252 | 62667  | 2.29  | ng/ul# | 45     |
| 92) Indeno(1,2,3-cd)pyrene     | 28.56 | 276 | 42041  | 1.33  | ng/ul# | 79     |
| 94) Benzo(g,h,i)perylene       | 29.70 | 276 | 41666m | 1.57  | ng/ul  |        |

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

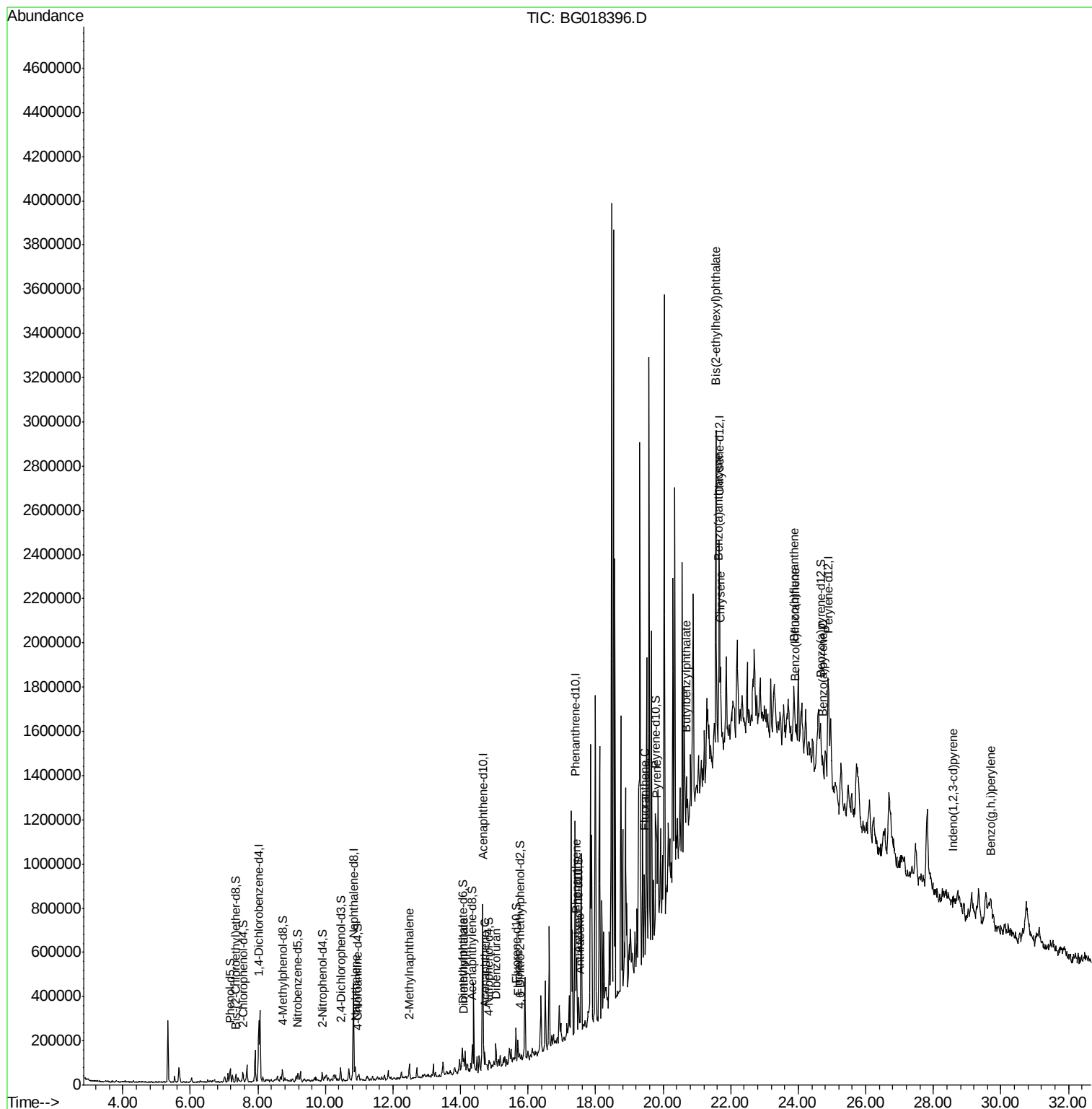
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG081215\  
Data File : BG018396.D  
Acq On : 12 Aug 2015 11:49  
Operator : UM/MA  
Sample : G3109-13 DL 5X  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

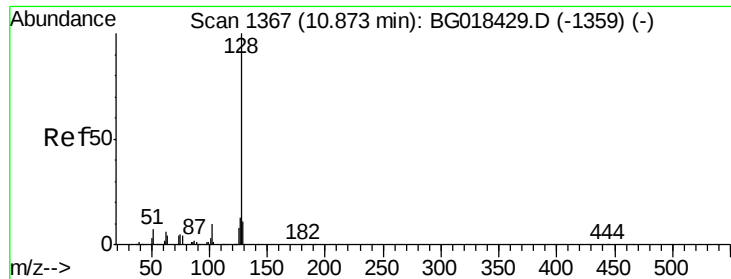
Instrument :  
BNA\_G  
ClientSampleId :  
C01P9DL

Manual Integrations  
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8/13/2015 5:39:25 PM

Quant Time: Aug 14 03:10:43 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 13 01:43:01 2015  
Response via : Initial Calibration





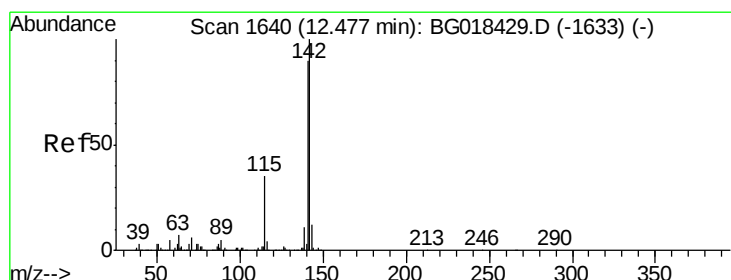
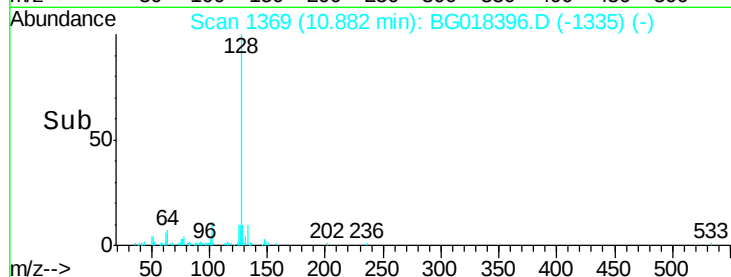
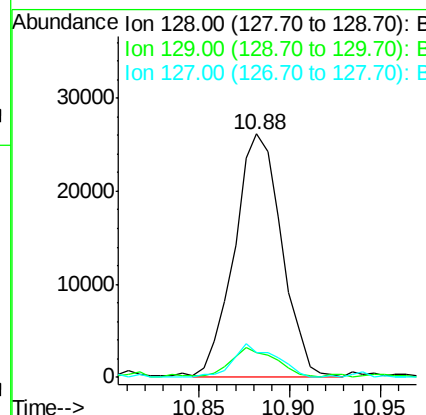
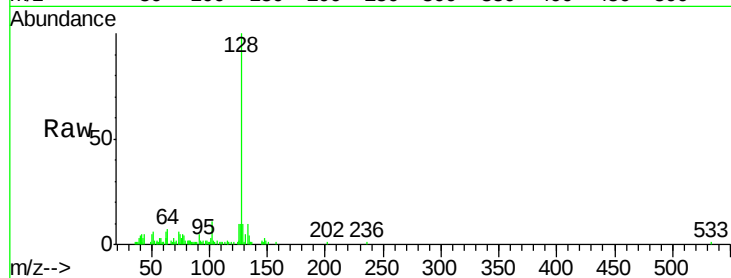
#28  
Naphthalene  
Concen: 2.34 ng/ul  
RT: 10.88 min Scan# 1369  
Delta R.T. -0.00 min  
Lab File: BG018396.D  
Acq: 12 Aug 2015 11:49

Instrument :  
BNA\_G  
ClientSampleId :  
C01P9DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.1  | 9.6   | 14.4  |
| 127     | 10.1  | 10.5  | 15.7# |

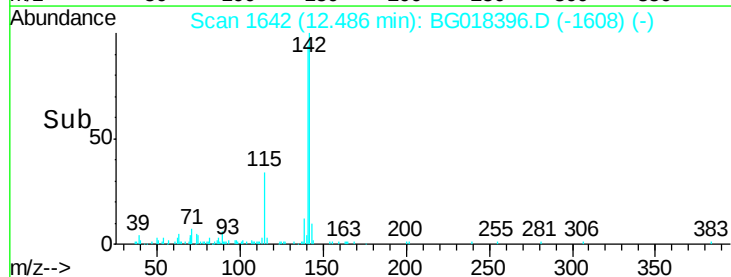
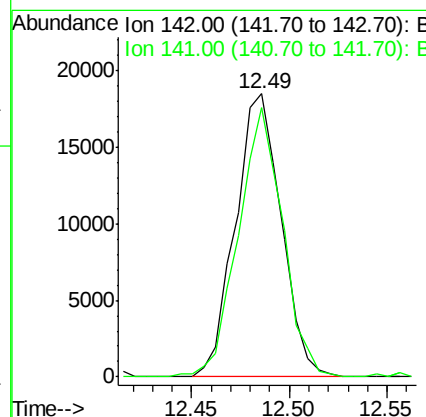
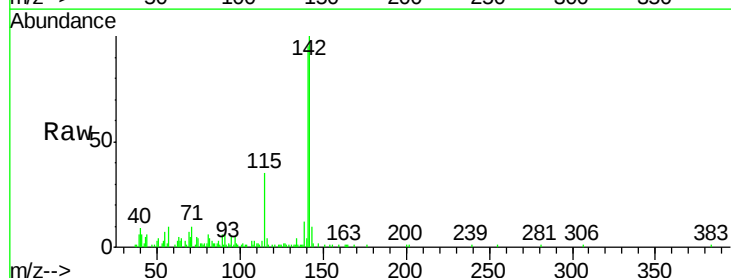
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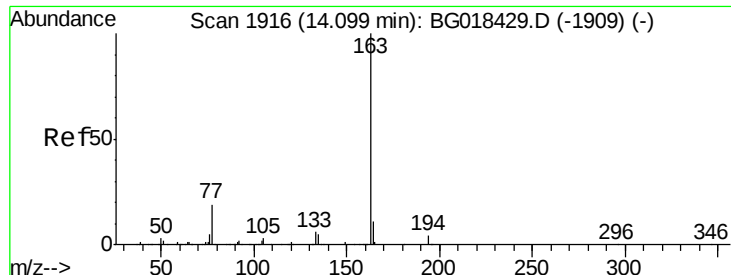
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#34  
2-Methylnaphthalene  
Concen: 2.05 ng/ul  
RT: 12.49 min Scan# 1642  
Delta R.T. -0.00 min  
Lab File: BG018396.D  
Acq: 12 Aug 2015 11:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 95.2  | 78.0  | 117.0 |





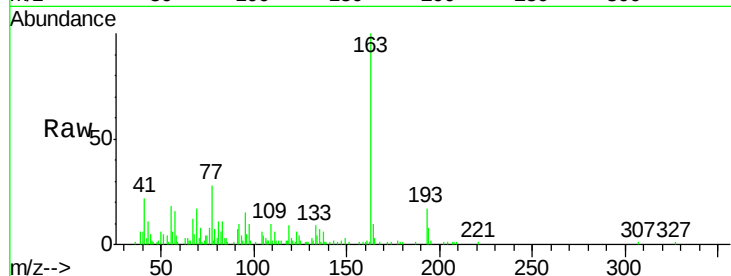
#45  
Dimethylphthalate  
Concen: 1.39 ng/ul  
RT: 14.10 min Scan# 1916  
Delta R.T. -0.01 min  
Lab File: BG018396.D  
Acq: 12 Aug 2015 11:49

Instrument :  
BNA\_G  
ClientSampleId :  
C01P9DL

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 28022 |       |       |
| 194     | 8.2   | 2.9   | 4.3#  |       |
| 164     | 10.2  | 7.7   | 11.5  |       |

Manual Integrations  
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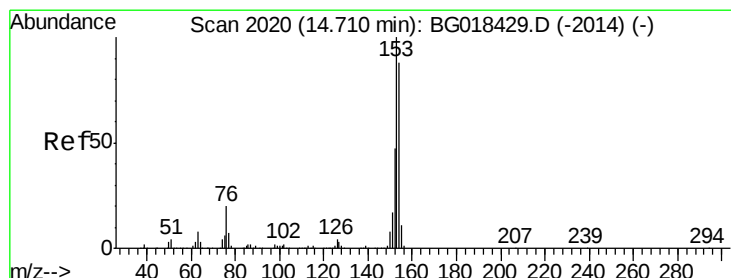
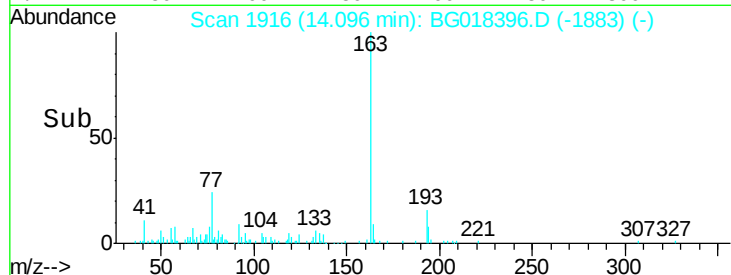
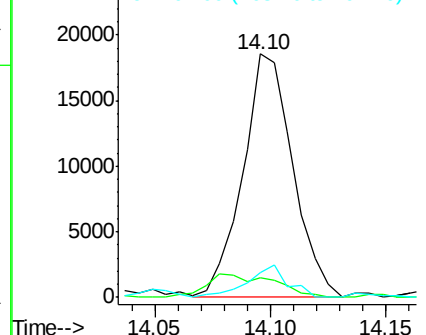


Abundance

Ion 163.00 (162.70 to 163.70): E

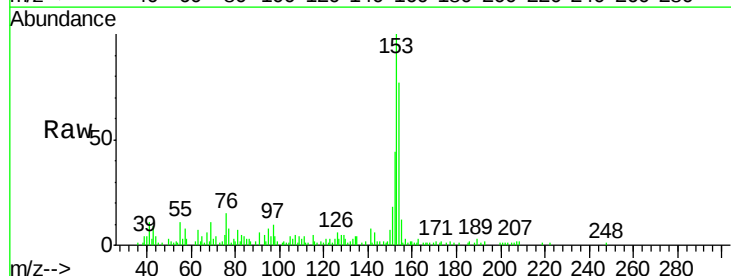
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50  
Acenaphthene  
Concen: 1.89 ng/ul  
RT: 14.71 min Scan# 2021  
Delta R.T. -0.01 min  
Lab File: BG018396.D  
Acq: 12 Aug 2015 11:49

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 153     | 100   | 34173 |       |       |
| 152     | 43.9  | 38.2  | 57.4  |       |
| 154     | 77.2  | 68.6  | 103.0 |       |

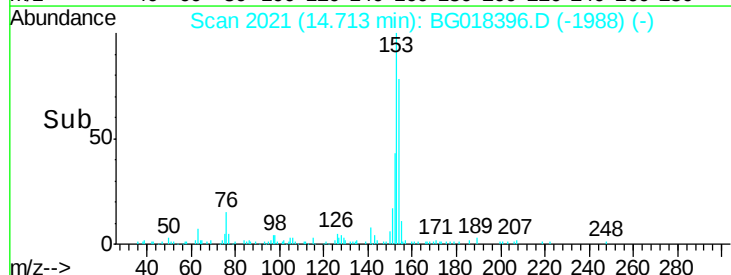
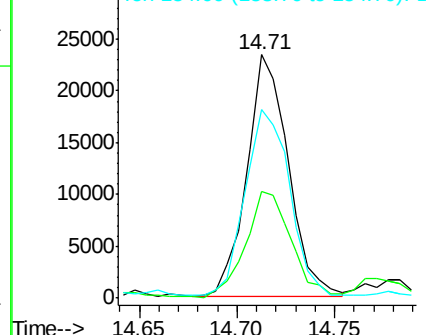


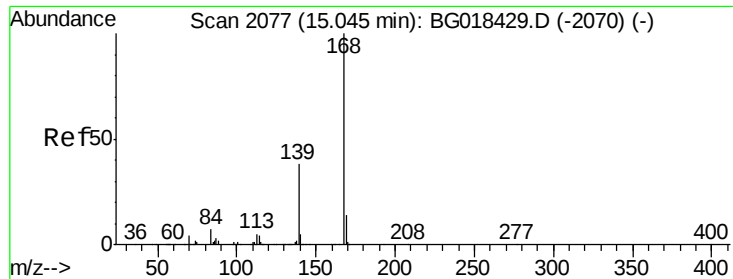
Abundance

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





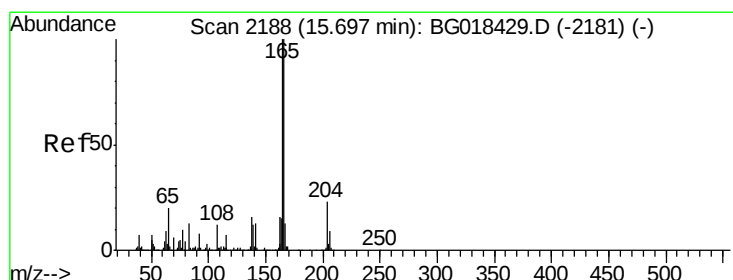
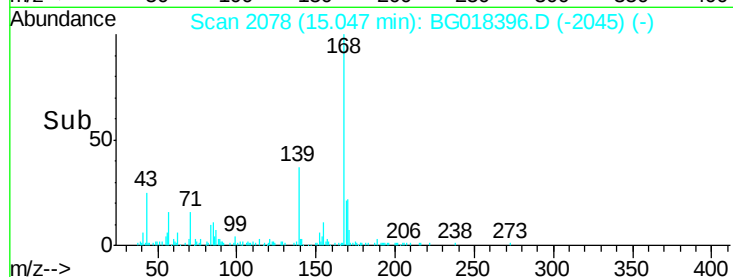
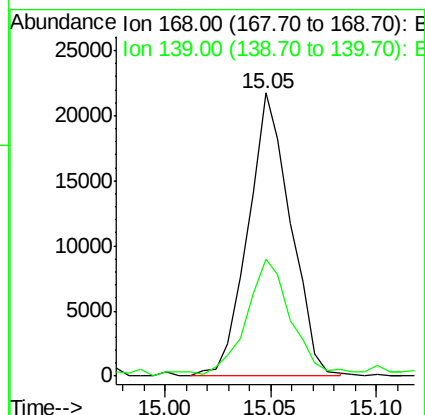
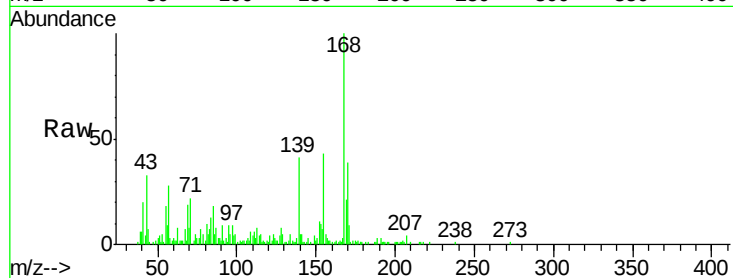
#54  
Dibenzenofuran  
Concen: 1.29 ng/ul  
RT: 15.05 min Scan# 2078  
Delta R.T. -0.01 min  
Lab File: BG018396.D  
Acq: 12 Aug 2015 11:49

Instrument :  
BNA\_G  
ClientSampleId :  
C01P9DL

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 168     | 100   | 30413 |       |       |
| 139     | 41.2  | 29.7  | 44.5  |       |

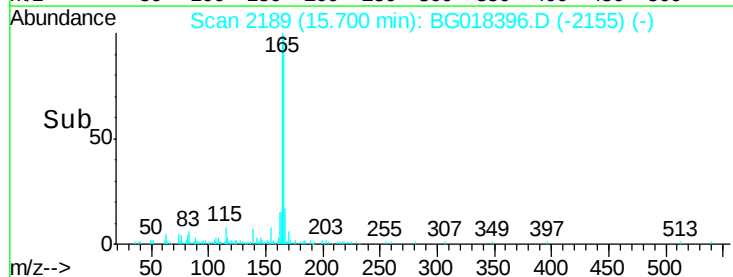
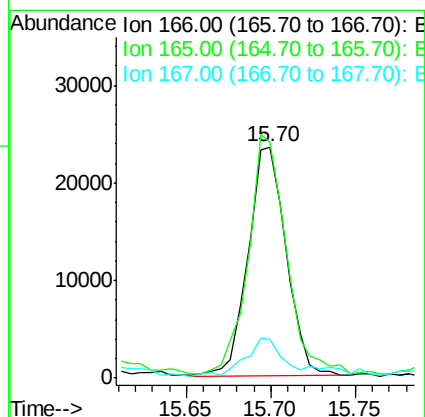
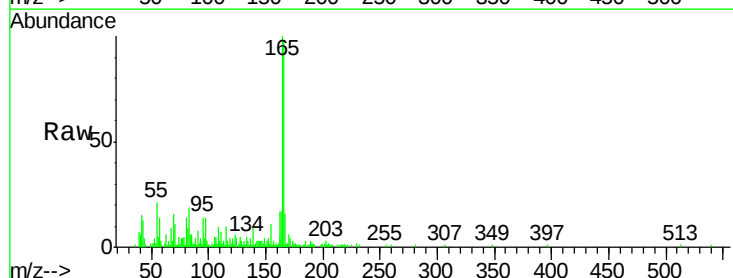
Manual Integrations  
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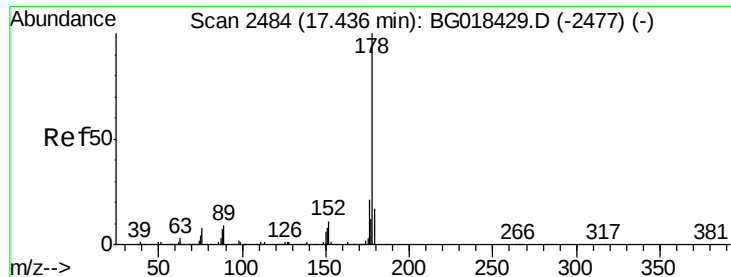
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8/13/2015 5:39:25 PM



#59  
Fluorene  
Concen: 1.82 ng/ul  
RT: 15.70 min Scan# 2189  
Delta R.T. -0.00 min  
Lab File: BG018396.D  
Acq: 12 Aug 2015 11:49

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 36961 |       |       |
| 165     | 102.2 | 82.6  | 124.0 |       |
| 167     | 16.7  | 11.4  | 17.0  |       |





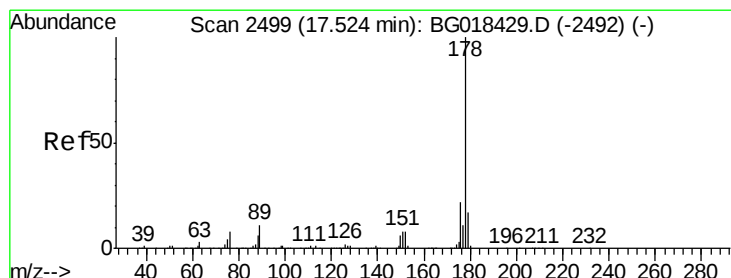
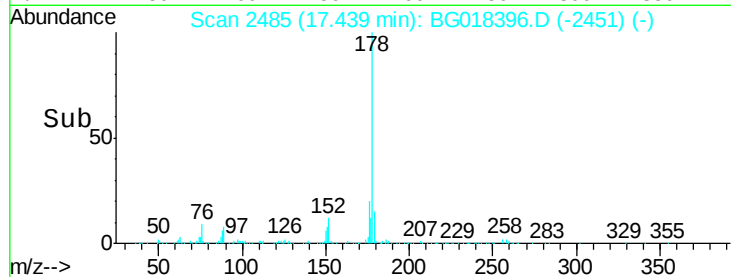
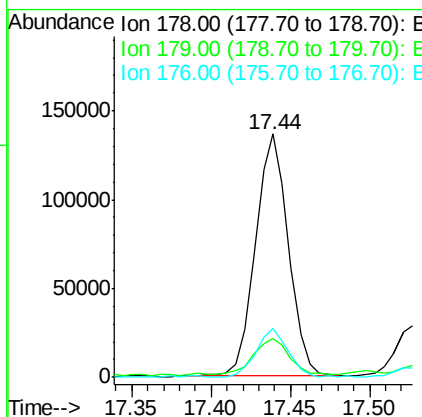
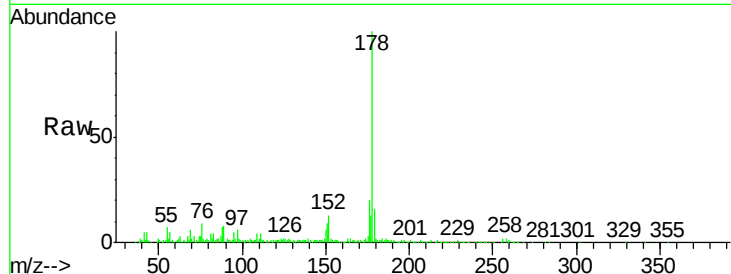
#70  
Phenanthrene  
Concen: 6.49 ng/ul  
RT: 17.44 min Scan# 2485  
Delta R.T. -0.00 min  
Lab File: BG018396.D  
Acq: 12 Aug 2015 11:49

Instrument :  
BNA\_G  
ClientSampleId :  
C01P9DL

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 195399 |       |       |
| 179     | 16.1  | 13.7   | 20.5  |       |
| 176     | 20.1  | 16.6   | 24.8  |       |

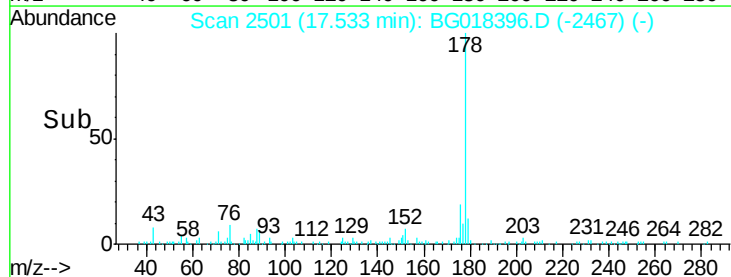
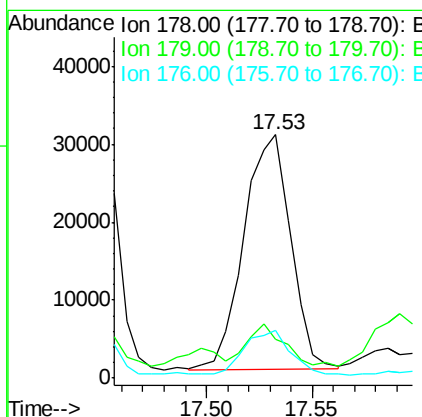
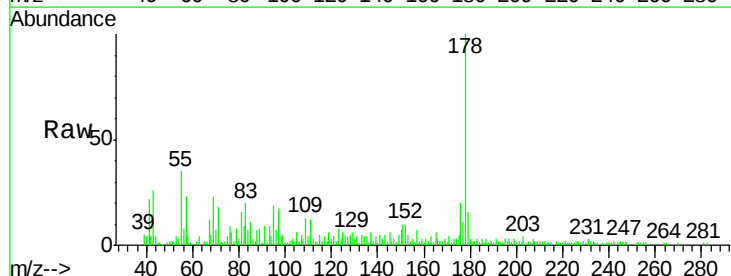
Manual Integrations  
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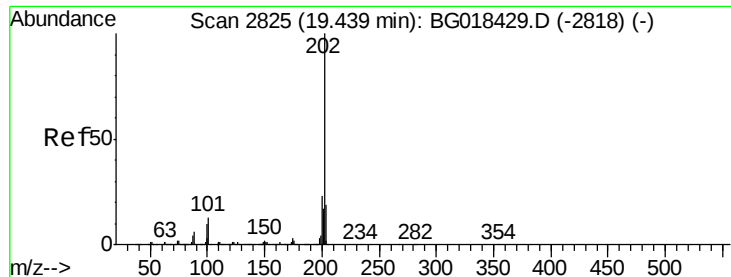
MMDadoda  
8/13/2015 5:39:25 PM



#72  
Anthracene  
Concen: 1.51 ng/ul  
RT: 17.53 min Scan# 2501  
Delta R.T. -0.00 min  
Lab File: BG018396.D  
Acq: 12 Aug 2015 11:49

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 46226 |       |       |
| 179     | 16.1  | 13.0  | 19.4  |       |
| 176     | 19.8  | 16.0  | 24.0  |       |





#77

Fluoranthene

Concen: 7.28 ng/ul

RT: 19.45 min Scan# 2827

Delta R.T. -0.00 min

Lab File: BG018396.D

Acq: 12 Aug 2015 11:49

Instrument :

BNA\_G

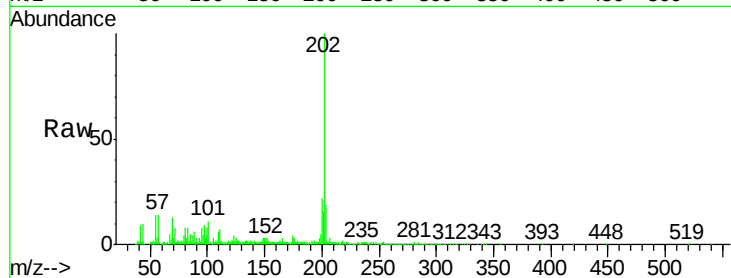
ClientSampleId :

C01P9DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 234096 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.5  | 9.7   | 14.5   |
| 100       | 8.0   | 7.8   | 11.8   |

Manual Integrations  
APPROVED

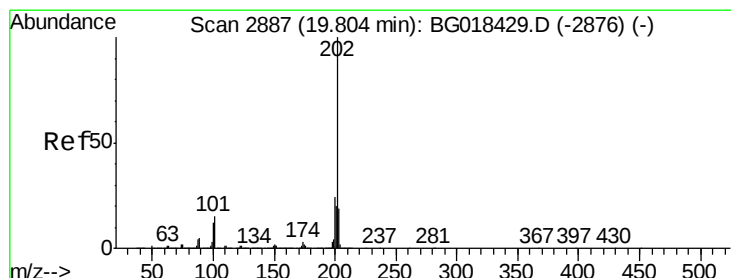
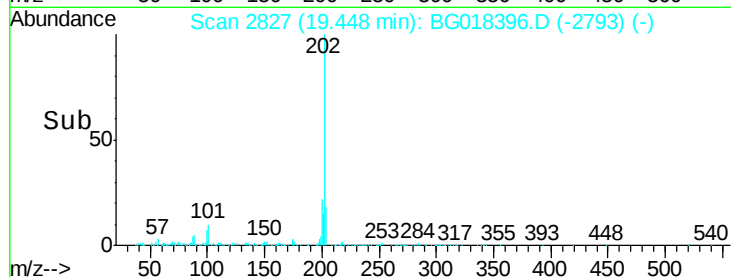
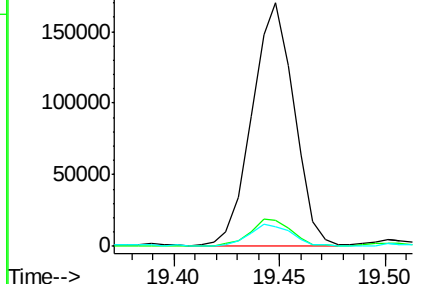
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8/13/2015 5:39:25 PM



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



#80

Pyrene

Concen: 6.49 ng/ul

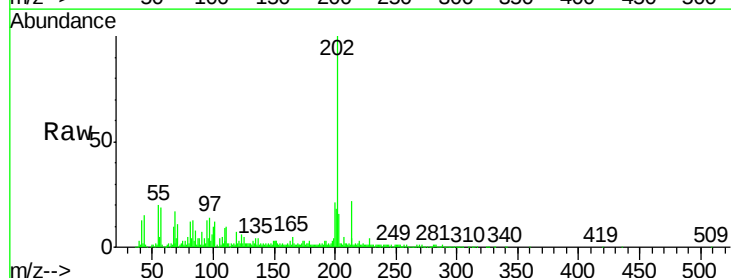
RT: 19.81 min Scan# 2889

Delta R.T. 0.00 min

Lab File: BG018396.D

Acq: 12 Aug 2015 11:49

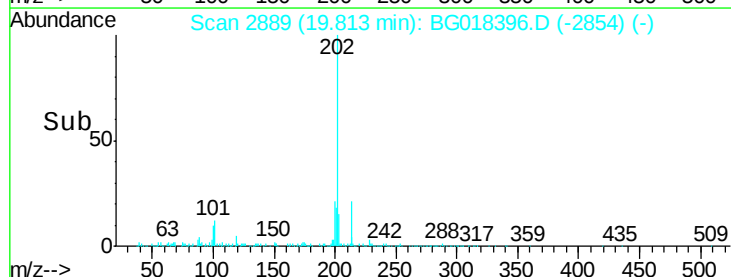
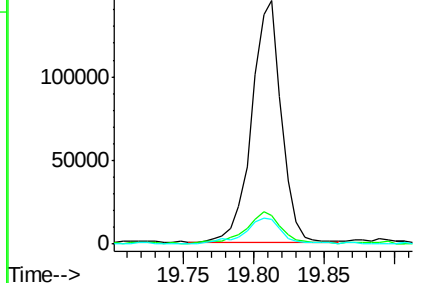
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 213642 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.8  | 11.0  | 16.4   |
| 100       | 10.1  | 9.8   | 14.6   |

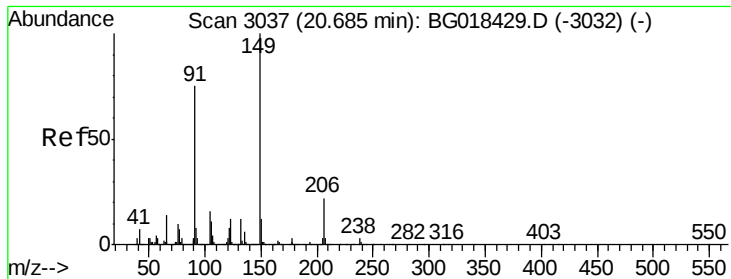


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#81

Butylbenzylphthalate

Concen: 4.25 ng/ul

RT: 20.69 min Scan# 3039

Delta R.T. -0.00 min

Lab File: BG018396.D

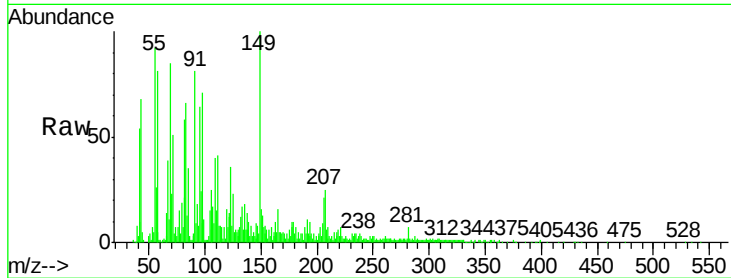
Acq: 12 Aug 2015 11:49

Instrument :

BNA\_G

ClientSampleId :

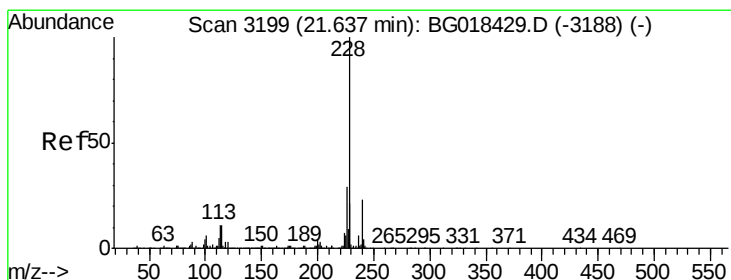
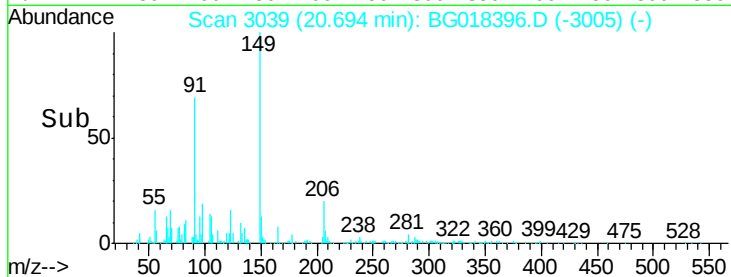
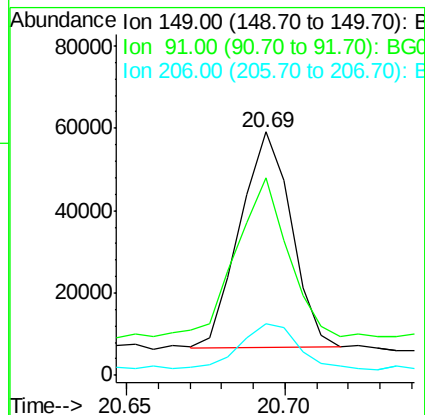
C01P9DL



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 59210 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 91        | 81.2  | 57.9  | 86.9  |
| 206       | 21.0  | 17.9  | 26.9  |

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#83

Benzo(a)anthracene

Concen: 2.63 ng/ul

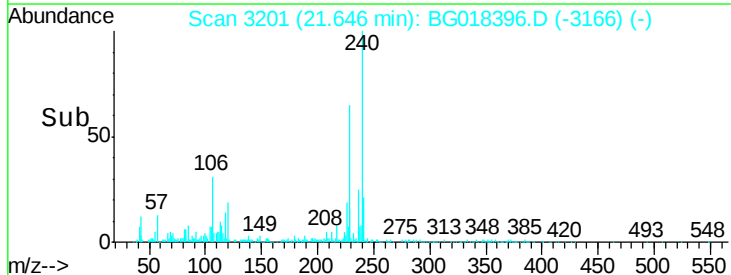
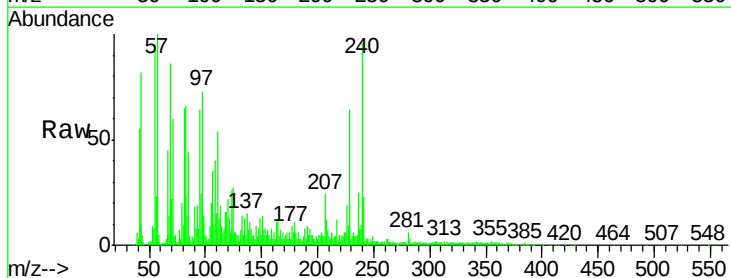
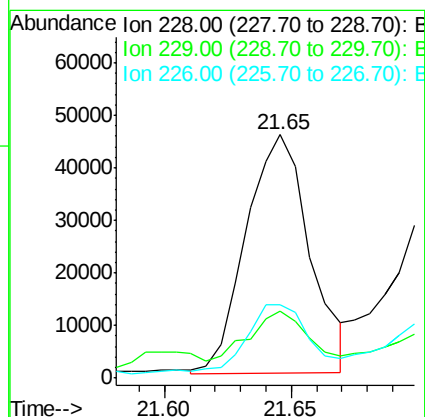
RT: 21.65 min Scan# 3201

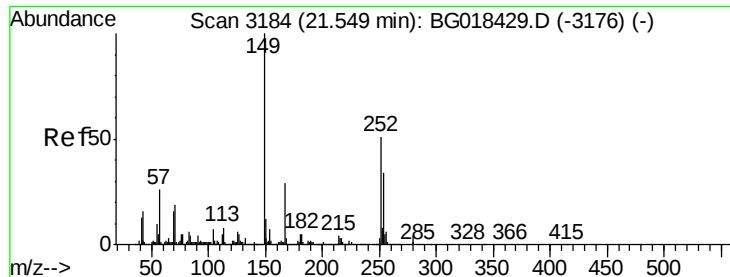
Delta R.T. 0.00 min

Lab File: BG018396.D

Acq: 12 Aug 2015 11:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 79550 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 27.5  | 15.5  | 23.3# |
| 226       | 30.0  | 22.1  | 33.1  |





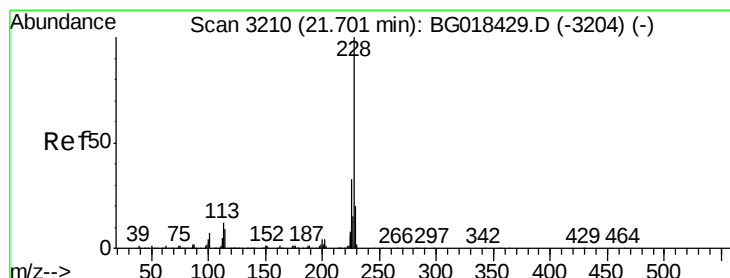
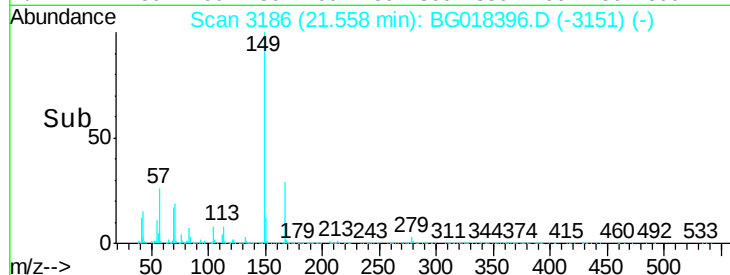
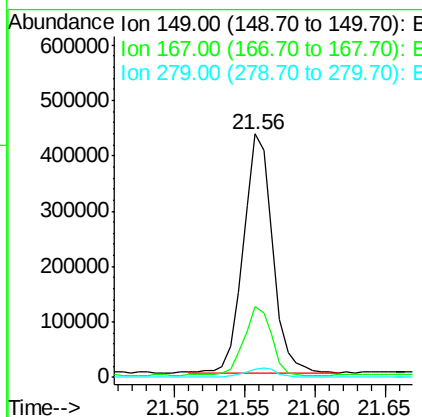
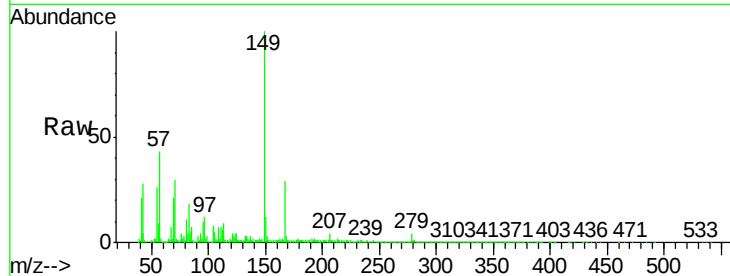
#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 31.50 ng/ul  
 RT: 21.56 min Scan# 3186  
 Delta R.T. 0.00 min  
 Lab File: BG018396.D  
 Acq: 12 Aug 2015 11:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P9DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 29.0  | 22.2  | 33.2  |
| 279     | 3.6   | 2.8   | 4.2   |

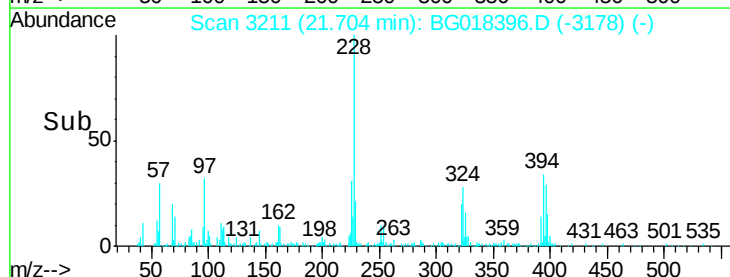
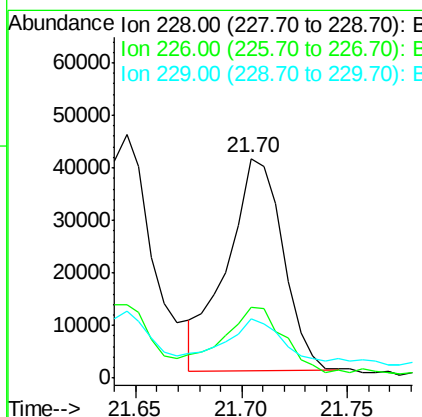
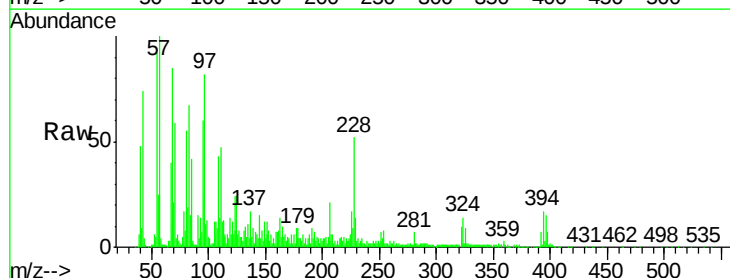
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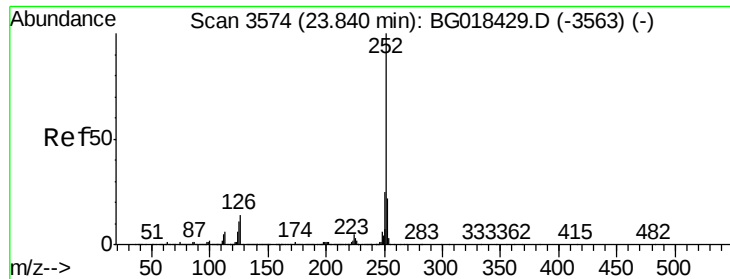
MMDadoda  
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#85  
 Chrysene  
 Concen: 2.63 ng/ul  
 RT: 21.70 min Scan# 3211  
 Delta R.T. -0.01 min  
 Lab File: BG018396.D  
 Acq: 12 Aug 2015 11:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.4  | 26.5  | 39.7  |
| 229     | 26.7  | 16.9  | 25.3  |





#88

Benzo(b)fluoranthene

Concen: 3.70 ng/ul

RT: 23.87 min Scan# 3580

Delta R.T. 0.02 min

Lab File: BG018396.D

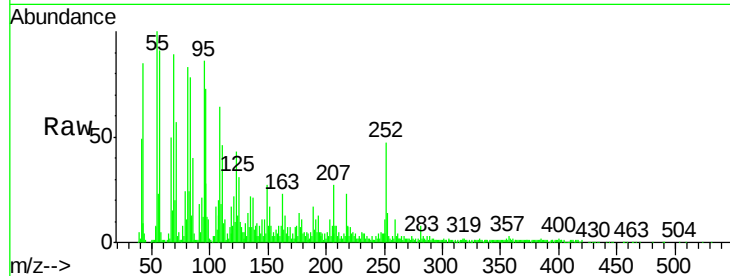
Acq: 12 Aug 2015 11:49

Instrument :

BNA\_G

ClientSampleId :

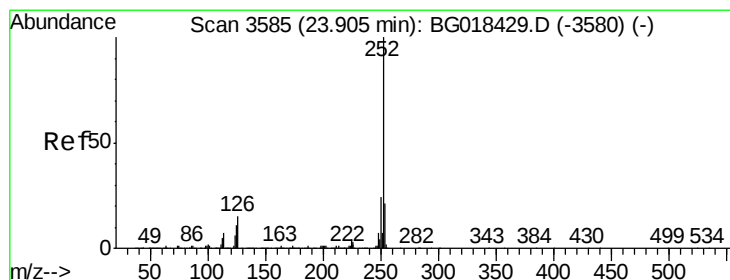
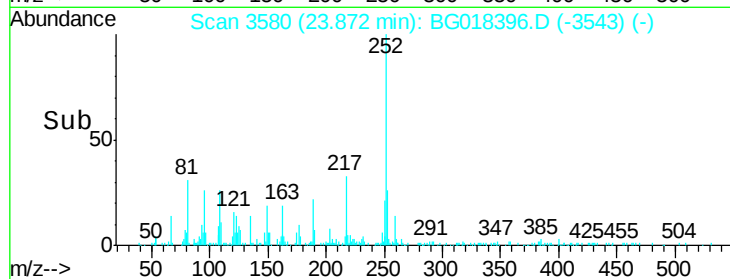
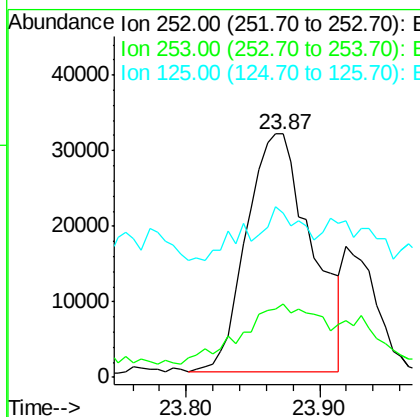
C01P9DL



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 106374 |       |       |
| 253     | 30.1  | 18.1   | 27.1# |       |
| 125     | 67.4  | 8.3    | 12.5# |       |

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#89

Benzo(k)fluoranthene

Concen: 1.08 ng/ul m

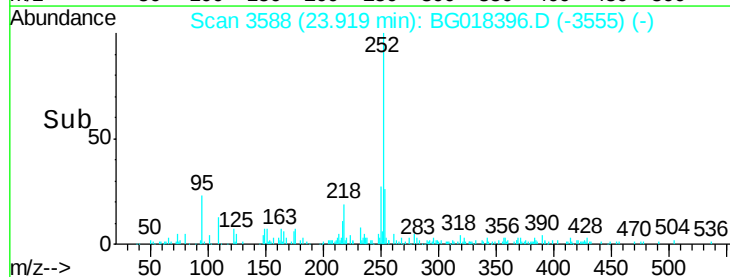
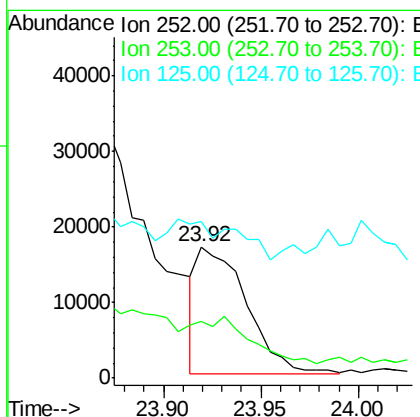
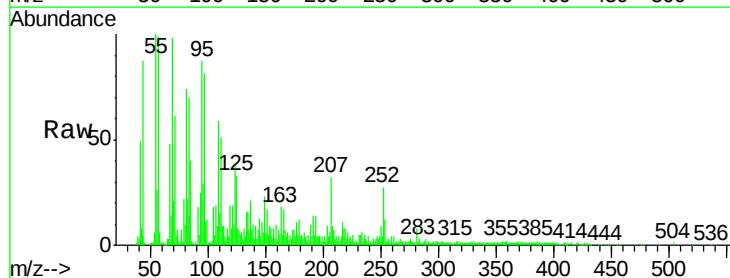
RT: 23.92 min Scan# 3588

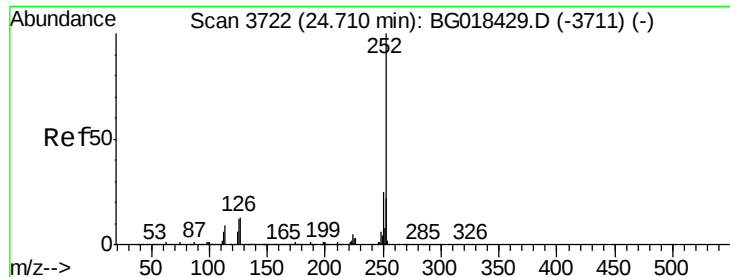
Delta R.T. -0.01 min

Lab File: BG018396.D

Acq: 12 Aug 2015 11:49

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 252     | 100   | 29865 |       |       |
| 253     | 43.6  | 17.8  | 26.6# |       |
| 125     | 119.0 | 9.0   | 13.4# |       |





#91

Benzo(a)pyrene

Concen: 2.29 ng/ul

RT: 24.74 min Scan# 3727

Delta R.T. 0.00 min

Lab File: BG018396.D

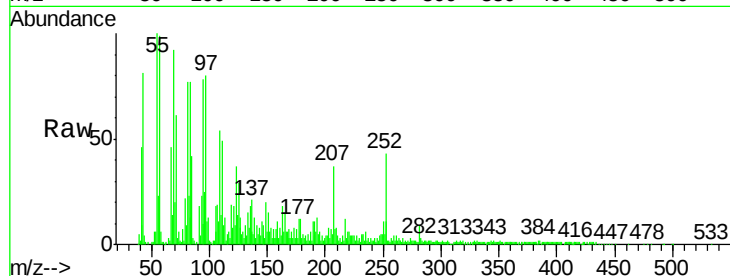
Acq: 12 Aug 2015 11:49

Instrument :

BNA\_G

ClientSampleId :

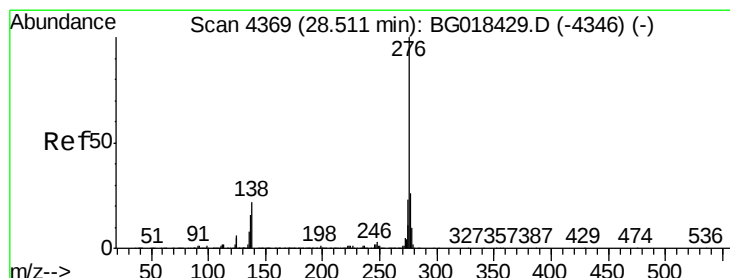
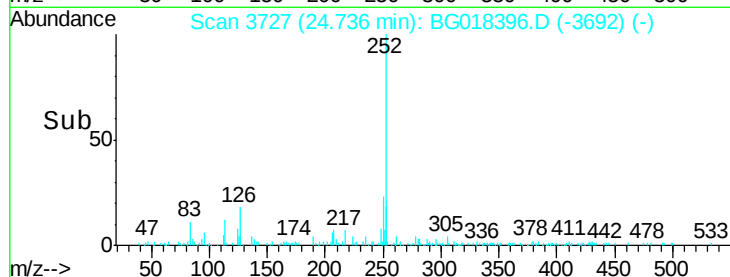
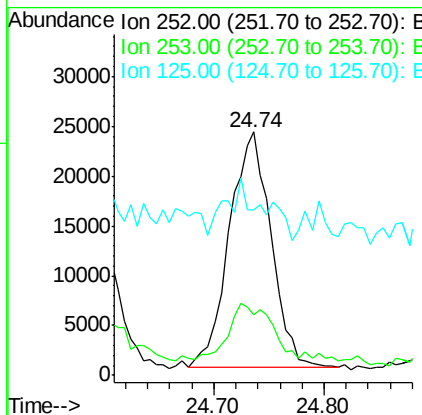
C01P9DL



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.1  | 17.7  | 26.5  |
| 125     | 67.9  | 10.2  | 15.2# |

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#92

Indeno(1,2,3-cd)pyrene

Concen: 1.33 ng/ul

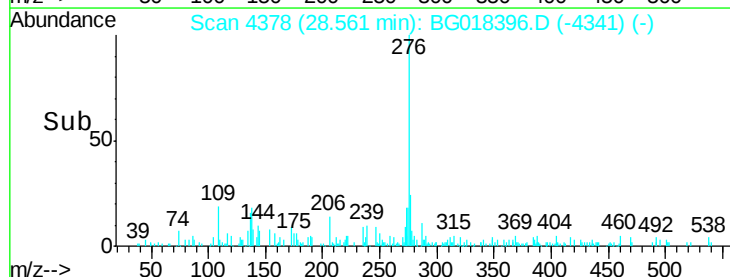
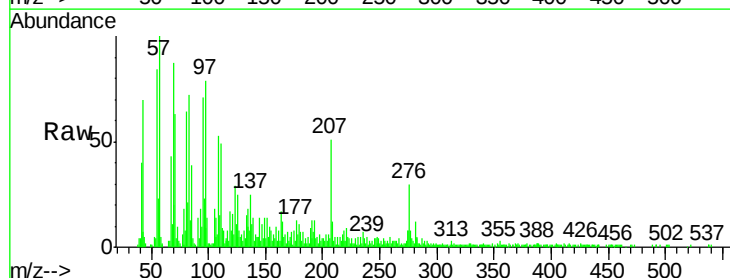
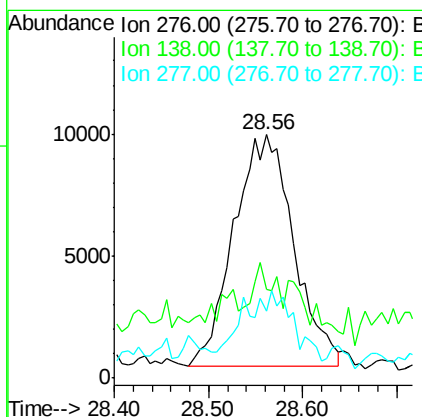
RT: 28.56 min Scan# 4378

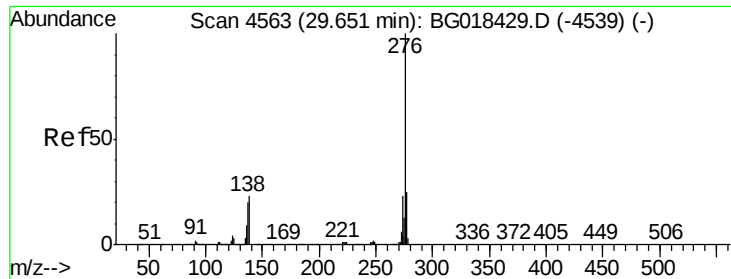
Delta R.T. 0.02 min

Lab File: BG018396.D

Acq: 12 Aug 2015 11:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 36.3  | 15.8  | 23.6# |
| 277     | 27.3  | 18.9  | 28.3  |





#94

Benzo(g,h,i)perylene

Concen: 1.57 ng/ul m

RT: 29.70 min Scan# 4572

Delta R.T. 0.00 min

Lab File: BG018396.D

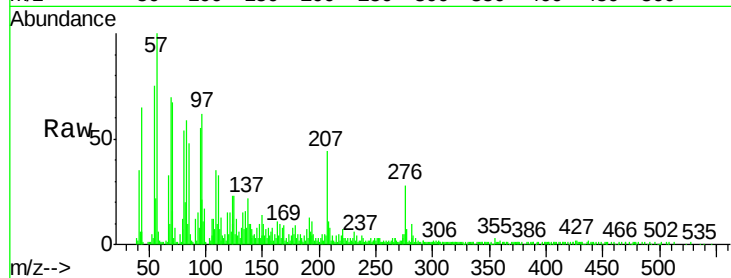
Acq: 12 Aug 2015 11:49

Instrument :

BNA\_G

ClientSampleId :

C01P9DL



| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 276 | 100  |       |       |       |
| 138 | 34.6 | 16.5  | 24.7# |       |
| 277 | 24.1 | 19.0  | 28.6  |       |

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