

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081216\  
 Data File : BG023665.D  
 Acq On : 12 Aug 2016 20:57  
 Operator : UM/SJ  
 Sample : H4385-19  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P003-SS001-0612-01

Manual Integrations  
 APPROVED

sohil  
 8/15/2016 6:49:54 PM

Quant Time: Aug 13 04:38:00 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Aug 13 03:19:50 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.11  | 152  | 128272   | 20.00 | ng/ul | -0.02    |
| 18) Naphthalene-d8        | 10.95 | 136  | 593613   | 20.00 | ng/ul | -0.02    |
| 35) Acenaphthene-d10      | 14.79 | 164  | 422603   | 20.00 | ng/ul | -0.02    |
| 61) Phenanthrene-d10      | 17.55 | 188  | 1001636  | 20.00 | ng/ul | -0.01    |
| 75) Chrysene-d12          | 21.88 | 240  | 964388   | 20.00 | ng/ul | -0.02    |
| 83) Perylene-d12          | 25.29 | 264  | 969771   | 20.00 | ng/ul | -0.03    |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.49  | 96  | 9176    | 3.04  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 7.27  | 99  | 227868  | 17.63 | ng/ul | -0.02 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.43  | 67  | 151151m | 18.26 | ng/ul | -0.02 |
| 9) 2-Chlorophenol-d4           | 7.64  | 132 | 165575  | 18.78 | ng/ul | -0.02 |
| 13) 4-Methylphenol-d8          | 8.83  | 113 | 178274  | 17.67 | ng/ul | -0.02 |
| 19) Nitrobenzene-d5            | 9.30  | 128 | 85828   | 18.34 | ng/ul | -0.01 |
| 22) 2-Nitrophenol-d4           | 10.02 | 143 | 106535  | 19.82 | ng/ul | -0.02 |
| 26) 2,4-Dichlorophenol-d3      | 10.58 | 165 | 193074  | 19.05 | ng/ul | -0.02 |
| 29) 4-Chloroaniline-d4         | 11.09 | 131 | 233568  | 19.64 | ng/ul | -0.02 |
| 43) Dimethylphthalate-d6       | 14.18 | 166 | 680697  | 19.67 | ng/ul | -0.01 |
| 46) Acenaphthylene-d8          | 14.48 | 160 | 791193  | 20.32 | ng/ul | -0.01 |
| 51) 4-Nitrophenol-d4           | 15.01 | 143 | 120577  | 20.41 | ng/ul | -0.01 |
| 57) Fluorene-d10               | 15.79 | 176 | 627306  | 19.62 | ng/ul | -0.01 |
| 62) 4,6-Dinitro-2-methylphenol | 15.92 | 200 | 106325  | 16.55 | ng/ul | -0.02 |
| 70) Anthracene-d10             | 17.65 | 188 | 950163  | 21.06 | ng/ul | -0.01 |
| 76) Pyrene-d10                 | 19.95 | 212 | 965246  | 19.77 | ng/ul | -0.02 |
| 87) Benzo(a)pyrene-d12         | 25.05 | 264 | 916198  | 20.87 | ng/ul | -0.04 |

## Target Compounds

|                            |       |     |         |       |        | Qvalue |
|----------------------------|-------|-----|---------|-------|--------|--------|
| 44) Dimethylphthalate      | 14.23 | 163 | 430530  | 12.57 | ng/ul  | 98     |
| 47) Acenaphthylene         | 14.52 | 152 | 42532   | 1.04  | ng/ul  | 97     |
| 69) Phenanthrene           | 17.60 | 178 | 329255  | 6.35  | ng/ul  | 98     |
| 74) Fluoranthene           | 19.61 | 202 | 517145  | 9.74  | ng/ul# | 90     |
| 77) Pyrene                 | 19.98 | 202 | 697042  | 11.69 | ng/ul  | 95     |
| 80) Benzo(a)anthracene     | 21.86 | 228 | 301953  | 5.56  | ng/ul  | 99     |
| 82) Chrysene               | 21.93 | 228 | 354249m | 7.17  | ng/ul  |        |
| 85) Benzo(b)fluoranthene   | 24.20 | 252 | 338551  | 6.14  | ng/ul# | 95     |
| 86) Benzo(k)fluoranthene   | 24.27 | 252 | 116983m | 2.15  | ng/ul  |        |
| 88) Benzo(a)pyrene         | 25.13 | 252 | 311739m | 5.85  | ng/ul  |        |
| 89) Indeno(1,2,3-cd)pyrene | 29.19 | 276 | 192824m | 3.08  | ng/ul  |        |
| 91) Benzo(g,h,i)perylene   | 30.42 | 276 | 220651  | 4.25  | ng/ul# | 88     |

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

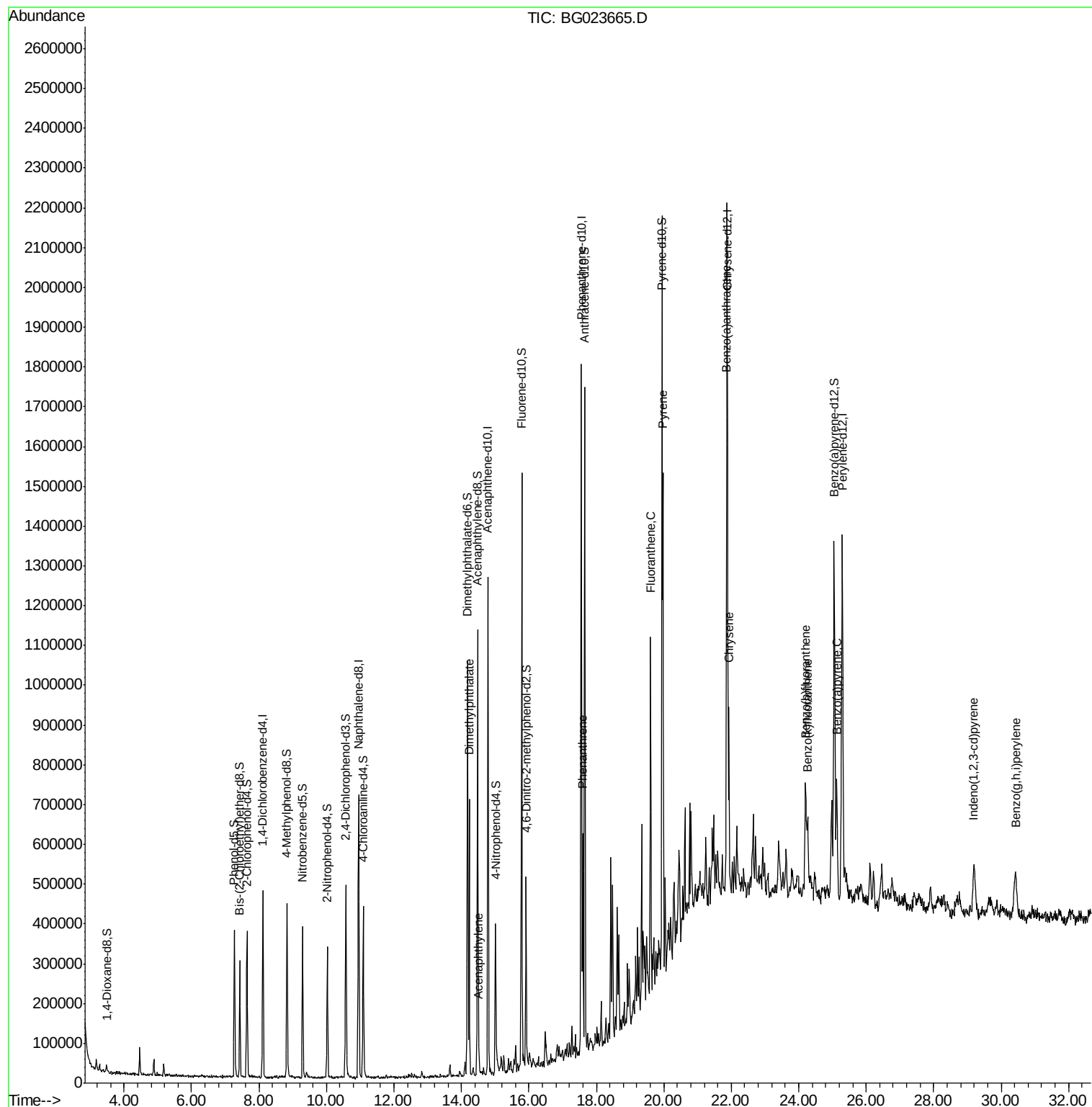
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081216\  
Data File : BG023665.D  
Acq On : 12 Aug 2016 20:57  
Operator : UM/SJ  
Sample : H4385-19  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

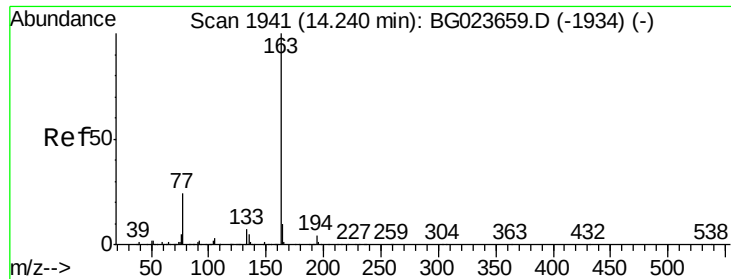
Instrument :  
BNA\_G  
ClientSampleId :  
P003-SS001-0612-01

Manual Integrations  
APPROVED

sohil  
8/15/2016 6:49:54 PM

Quant Time: Aug 13 04:38:00 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Aug 13 03:19:50 2016  
Response via : Initial Calibration





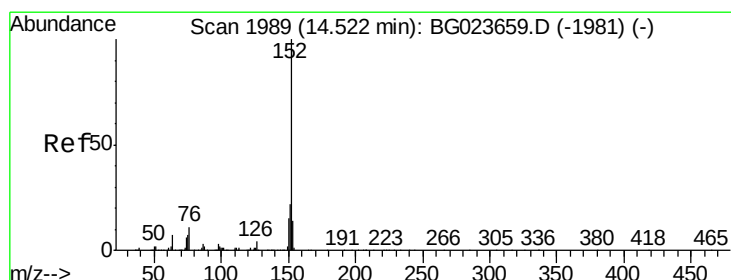
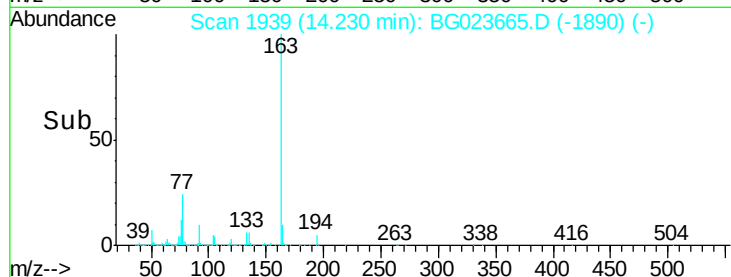
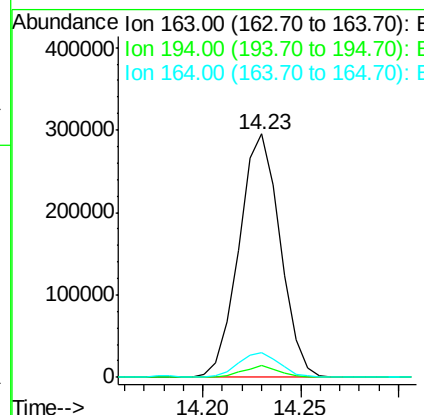
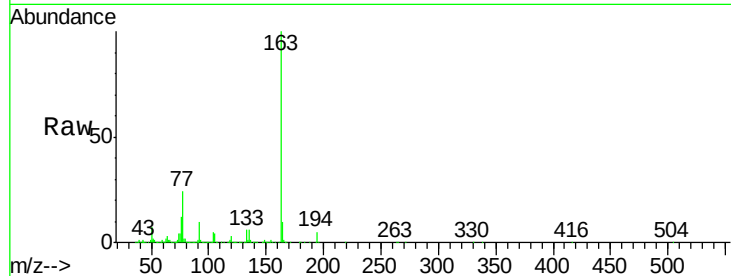
#44  
Dimethylphthalate  
Concen: 12.57 ng/ul  
RT: 14.23 min Scan# 1939  
Delta R.T. -0.01 min  
Lab File: BG023665.D  
Acq: 12 Aug 2016 20:57

Instrument :  
BNA\_G  
ClientSampleId :  
P003-SS001-0612-01

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 163     | 100   |            |            |
| 194     | 4.9   | 3.4        | 5.2        |
| 164     | 10.3  | 8.8        | 13.2       |

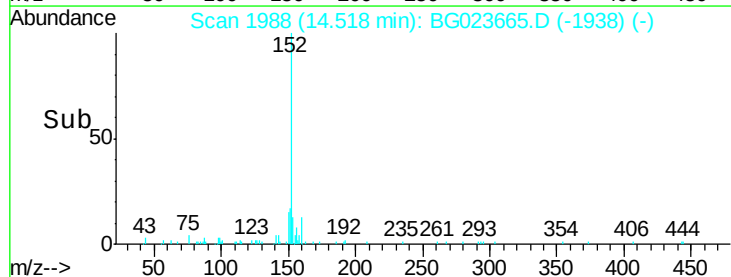
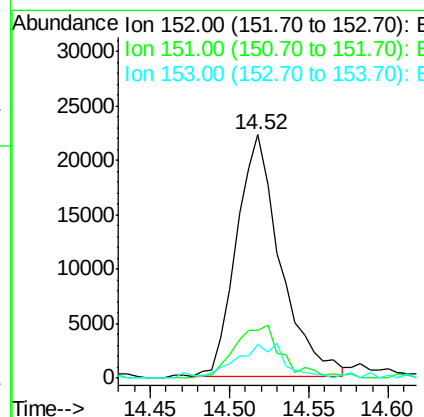
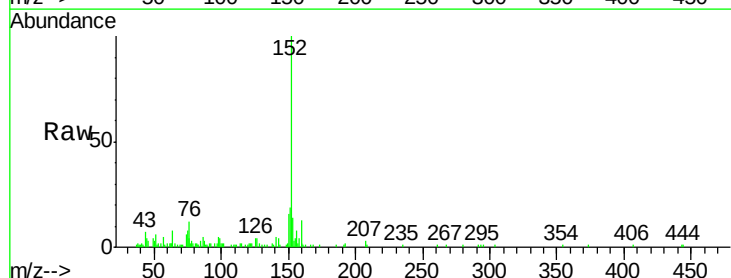
Manual Integrations  
APPROVED

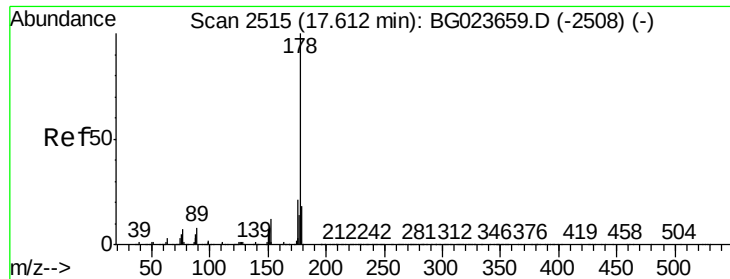
sohil  
8/15/2016 6:49:54 PM



#47  
Acenaphthylene  
Concen: 1.04 ng/ul  
RT: 14.52 min Scan# 1988  
Delta R.T. -0.00 min  
Lab File: BG023665.D  
Acq: 12 Aug 2016 20:57

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 152     | 100   |            |            |
| 151     | 19.5  | 17.5       | 26.3       |
| 153     | 13.7  | 11.1       | 16.7       |





#69

Phenanthrene

Concen: 6.35 ng/ul

RT: 17.60 min Scan# 2512

Delta R.T. -0.02 min

Lab File: BG023665.D

Acq: 12 Aug 2016 20:57

Instrument :

BNA\_G

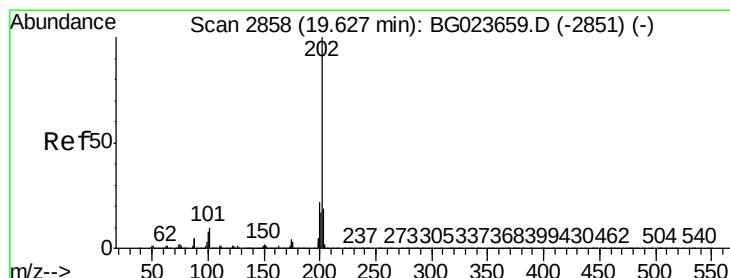
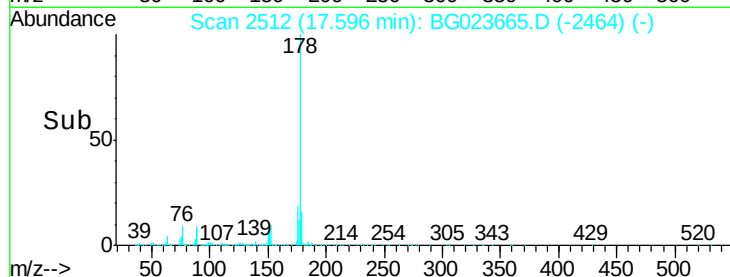
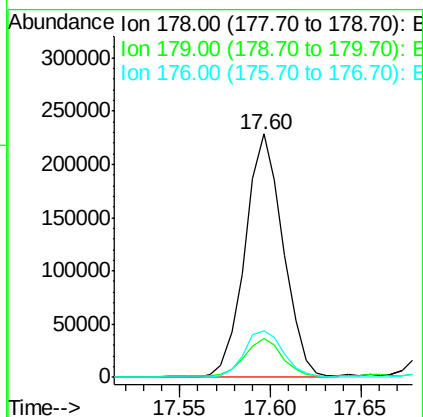
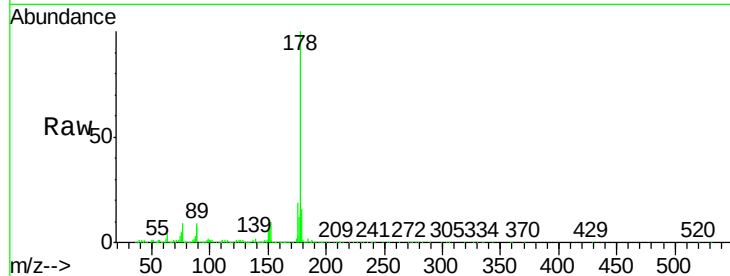
ClientSampleId :

P003-SS001-0612-01

| Tgt | Ion  | Resp | Lower | Upper |
|-----|------|------|-------|-------|
| 178 | 100  |      |       |       |
| 179 | 15.7 | 12.9 | 19.3  |       |
| 176 | 18.9 | 15.8 | 23.8  |       |

Manual Integrations  
APPROVED

sohil  
8/15/2016 6:49:54 PM



#74

Fluoranthene

Concen: 9.74 ng/ul

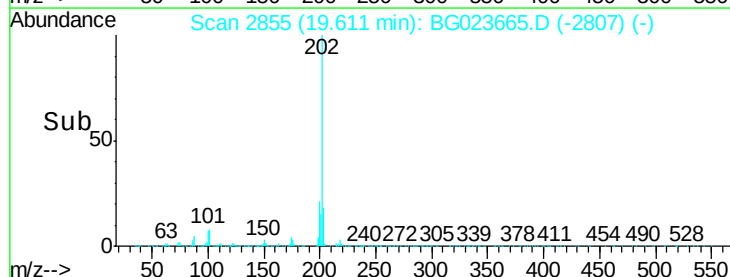
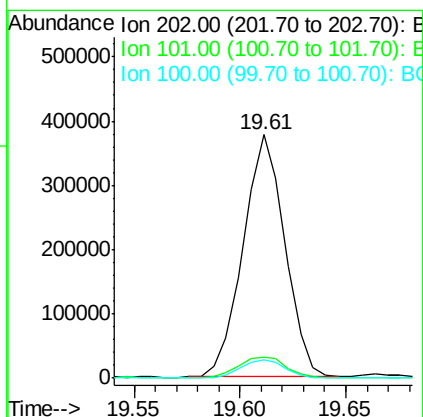
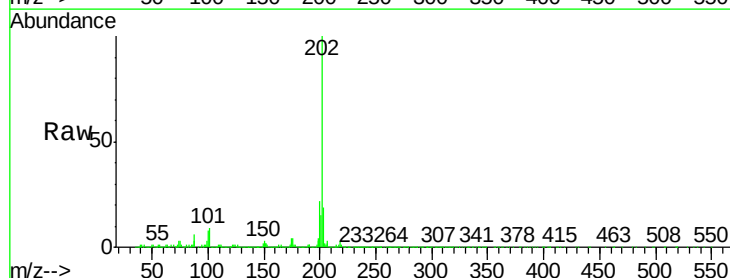
RT: 19.61 min Scan# 2855

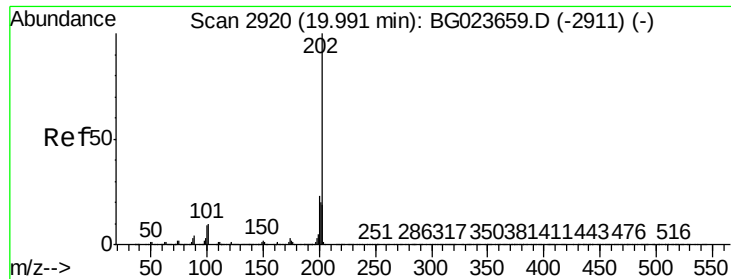
Delta R.T. -0.02 min

Lab File: BG023665.D

Acq: 12 Aug 2016 20:57

| Tgt | Ion | Resp | Lower | Upper |
|-----|-----|------|-------|-------|
| 202 | 100 |      |       |       |
| 101 | 8.8 | 10.6 | 16.0# |       |
| 100 | 7.5 | 8.7  | 13.1# |       |





#77

Pyrene

Concen: 11.69 ng/ul

RT: 19.98 min Scan# 2917

Delta R.T. -0.02 min

Lab File: BG023665.D

Acq: 12 Aug 2016 20:57

Instrument :

BNA\_G

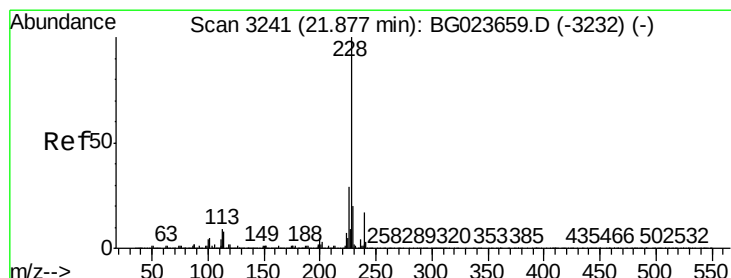
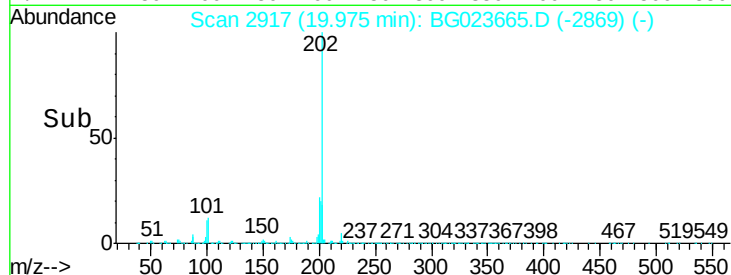
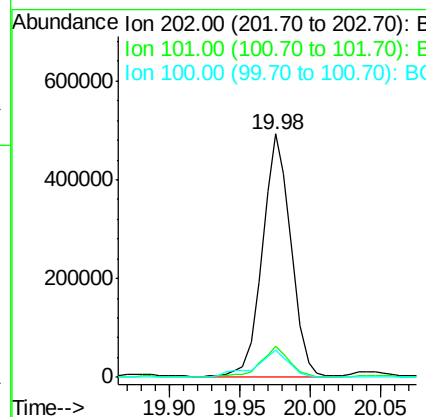
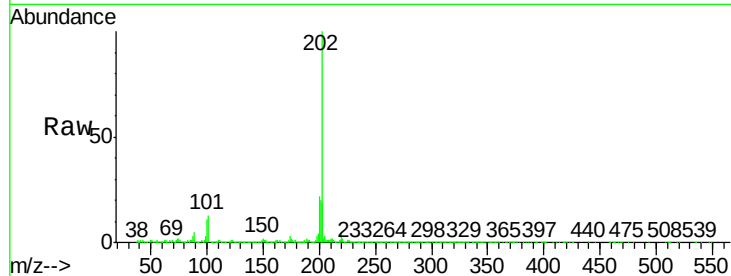
ClientSampleId :

P003-SS001-0612-01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 697042 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.6  | 12.5  | 18.7   |
| 100       | 11.5  | 10.2  | 15.4   |

Manual Integrations  
APPROVED

sohil  
8/15/2016 6:49:54 PM



#80

Benzo(a)anthracene

Concen: 5.56 ng/ul

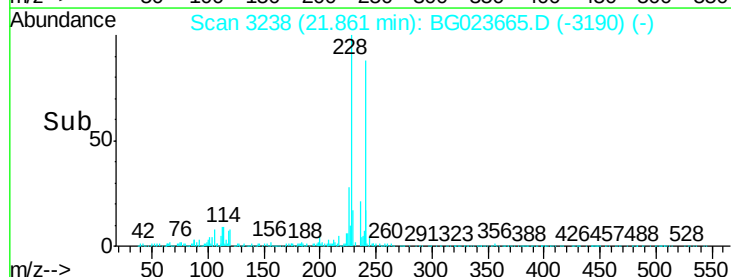
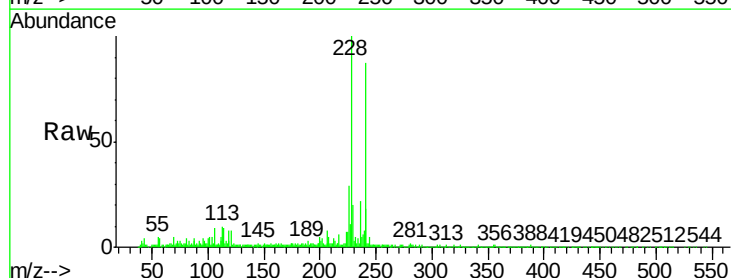
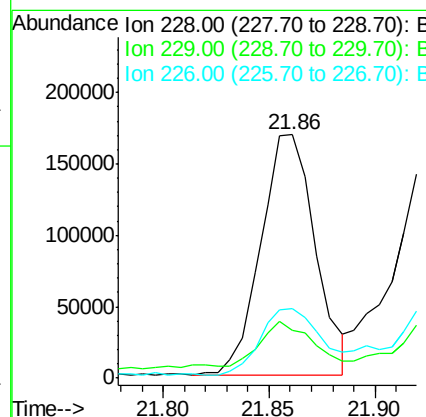
RT: 21.86 min Scan# 3238

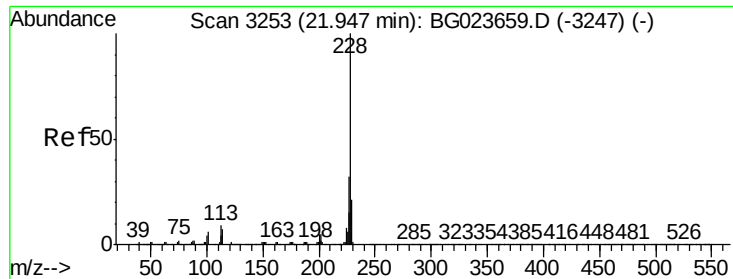
Delta R.T. -0.02 min

Lab File: BG023665.D

Acq: 12 Aug 2016 20:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 301953 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 19.7  | 15.4  | 23.2   |
| 226       | 28.6  | 22.8  | 34.2   |





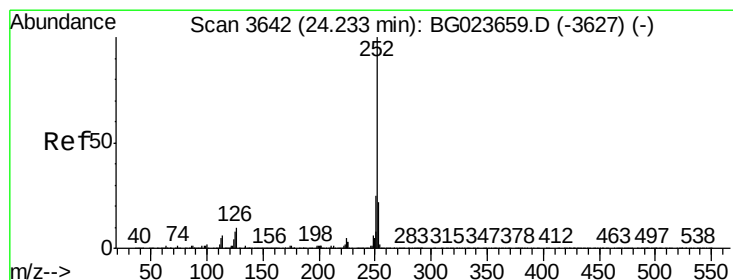
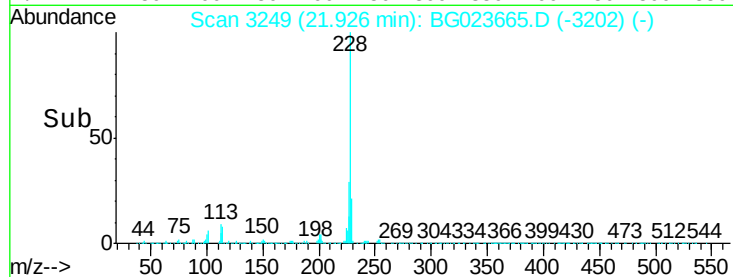
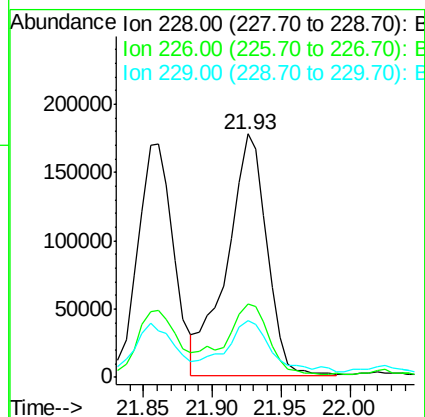
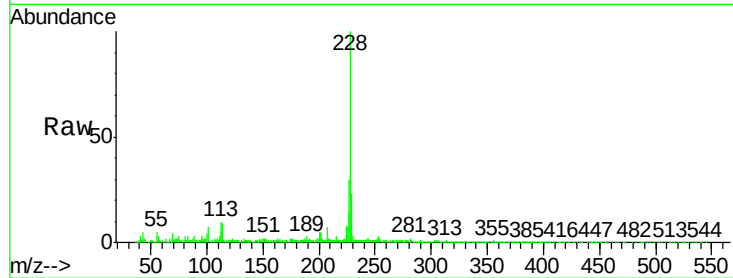
#82  
Chrysene  
Concen: 7.17 ng/ul m  
RT: 21.93 min Scan# 3249  
Delta R.T. -0.02 min  
Lab File: BG023665.D  
Acq: 12 Aug 2016 20:57

Instrument :  
BNA\_G  
ClientSampleId :  
P003-SS001-0612-01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 354249 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.2  | 24.2  | 36.4   |
| 229       | 23.1  | 15.0  | 22.6#  |

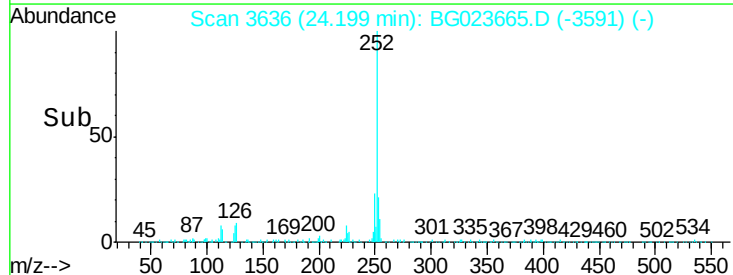
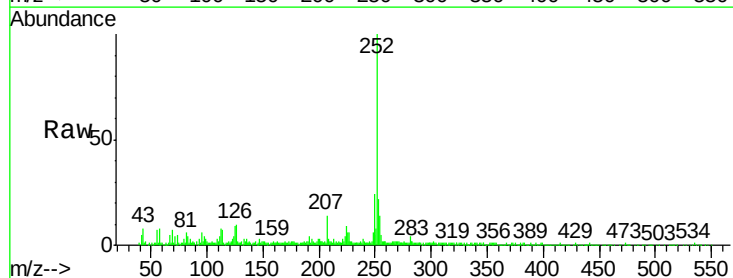
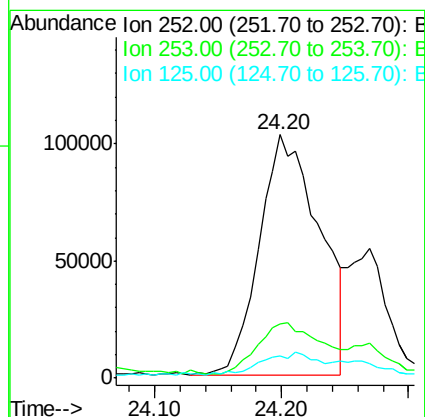
Manual Integrations  
APPROVED

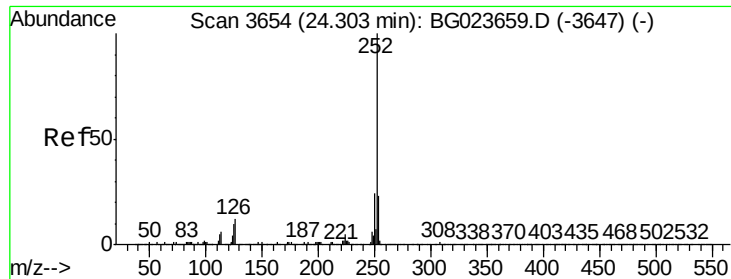
sohil  
8/15/2016 6:49:54 PM



#85  
Benzo(b)fluoranthene  
Concen: 6.14 ng/ul  
RT: 24.20 min Scan# 3636  
Delta R.T. -0.03 min  
Lab File: BG023665.D  
Acq: 12 Aug 2016 20:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 338551 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.1  | 18.2  | 27.2   |
| 125       | 8.9   | 10.8  | 16.2#  |





#86

Benzo(k)fluoranthene

Concen: 2.15 ng/ul m

RT: 24.27 min Scan# 3648

Delta R.T. -0.03 min

Lab File: BG023665.D

Acq: 12 Aug 2016 20:57

Instrument :

BNA\_G

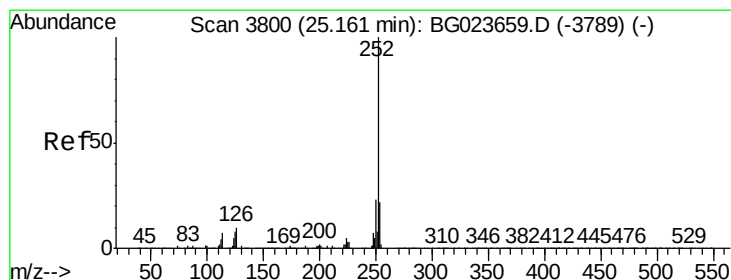
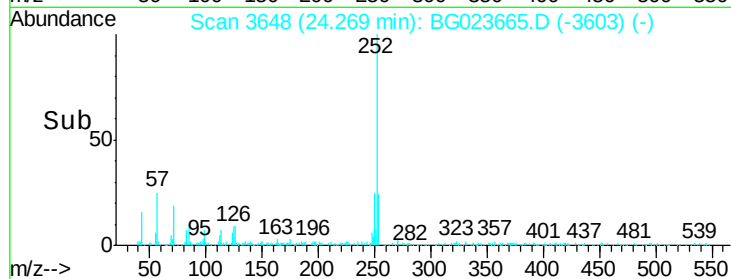
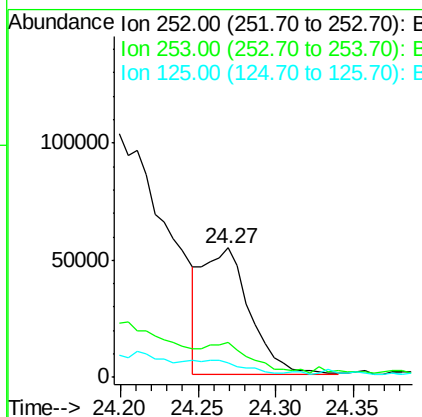
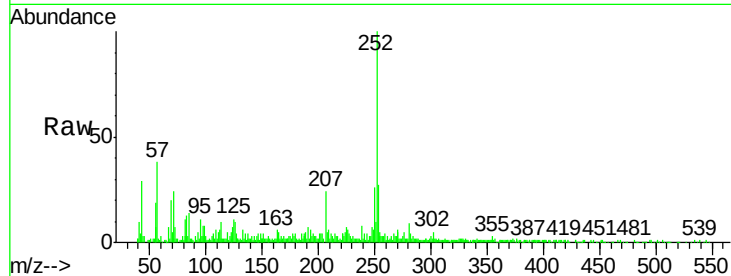
ClientSampleId :

P003-SS001-0612-01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 116983 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 26.8  | 15.8  | 23.6#  |
| 125       | 11.3  | 10.6  | 16.0   |

Manual Integrations  
APPROVED

sohil  
8/15/2016 6:49:54 PM



#88

Benzo(a)pyrene

Concen: 5.85 ng/ul m

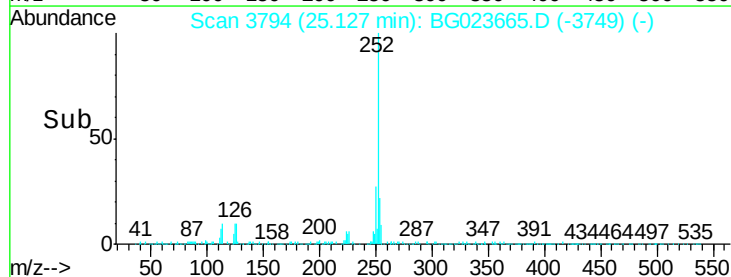
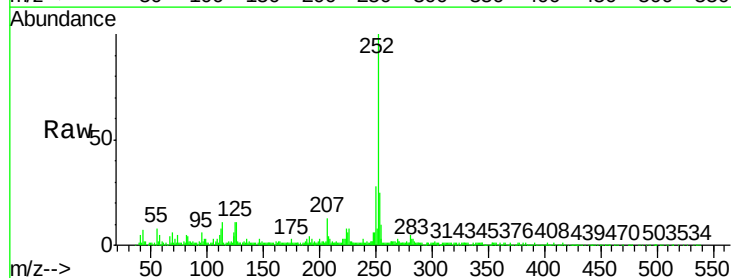
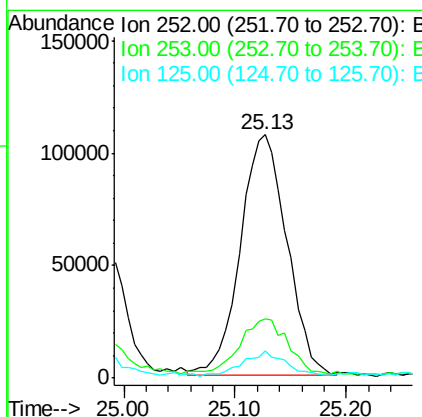
RT: 25.13 min Scan# 3794

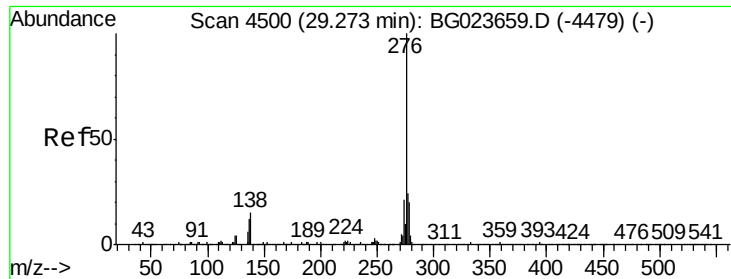
Delta R.T. -0.03 min

Lab File: BG023665.D

Acq: 12 Aug 2016 20:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 311739 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.6  | 19.0  | 28.4   |
| 125       | 11.2  | 12.0  | 18.0#  |





#89

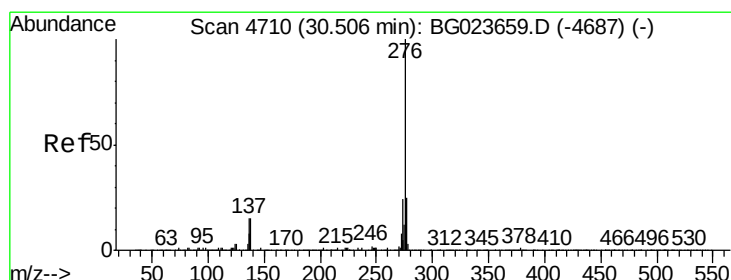
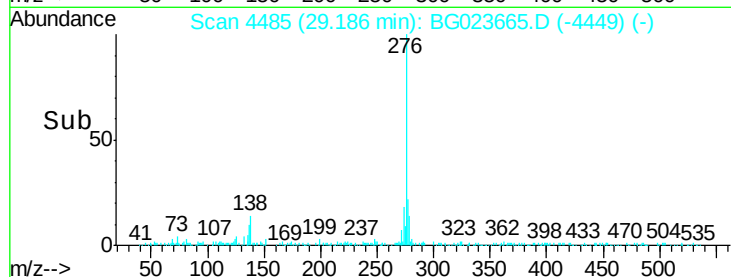
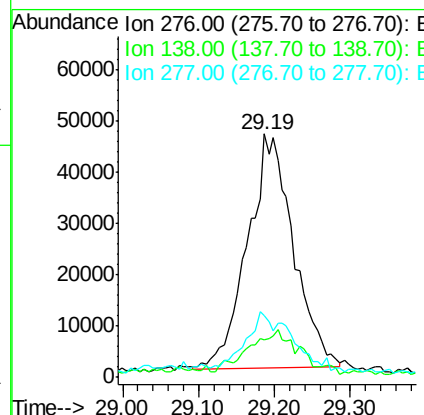
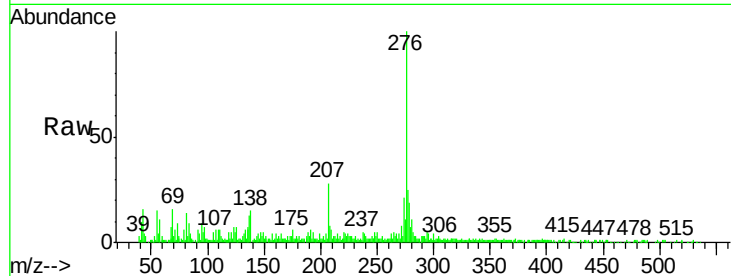
Indeno(1,2,3-cd)pyrene  
Concen: 3.08 ng/ul m  
RT: 29.19 min Scan# 4485  
Delta R.T. -0.09 min  
Lab File: BG023665.D  
Acq: 12 Aug 2016 20:57

Instrument :  
BNA\_G  
ClientSampleId :  
P003-SS001-0612-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.2  | 20.8  | 31.2# |
| 277     | 25.3  | 17.6  | 26.4  |

Manual Integrations  
APPROVED

sohil  
8/15/2016 6:49:54 PM



#91

Benzo(g,h,i)perylene  
Concen: 4.25 ng/ul  
RT: 30.42 min Scan# 4695  
Delta R.T. -0.09 min  
Lab File: BG023665.D  
Acq: 12 Aug 2016 20:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.1  | 22.1  | 33.1# |
| 277     | 22.1  | 17.0  | 25.4  |

