

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080619\  
 Data File : BG042026.D  
 Acq On : 7 Aug 2019 11:47  
 Operator : HP/JU  
 Sample : K4028-04  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BENQ6

Manual Integrations  
 APPROVED

mohammad  
 8/7/2019 4:40:44 PM

Quant Time: Aug 07 13:22:11 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 07 12:00:36 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.03  | 152  | 73783    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.85 | 136  | 323639   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.69 | 164  | 237607   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.44 | 188  | 511444   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.72 | 240  | 498613   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 24.99 | 264  | 596857   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.41  | 96  | 3645   | 2.16  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.17  | 99  | 86555  | 14.95 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.34  | 67  | 44913  | 13.87 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.56  | 132 | 78631  | 15.88 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.73  | 113 | 72206  | 14.85 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.19  | 128 | 39740  | 16.31 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.92  | 143 | 48683  | 17.21 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.46 | 165 | 95607  | 16.74 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.98 | 131 | 96923  | 15.30 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.08 | 166 | 312966 | 16.98 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.38 | 160 | 361851 | 17.19 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.87 | 143 | 34306  | 11.09 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.68 | 176 | 290885 | 17.74 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.79 | 200 | 41777  | 12.73 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.54 | 188 | 437060 | 17.81 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.82 | 212 | 496291 | 17.84 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 24.76 | 264 | 554151 | 17.77 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |              | Ovalue |
|--------------------------------|-------|-----|---------|--------------|--------|
| 44) Dimethylphthalate          | 14.13 | 163 | 147830  | 8.079 ng/ul  | 98     |
| 69) Phenanthrene               | 17.48 | 178 | 120454  | 4.302 ng/ul  | 98     |
| 76) Fluoranthene               | 19.49 | 202 | 256501m | 7.929 ng/ul  |        |
| 79) Pyrene                     | 19.85 | 202 | 298750  | 8.907 ng/ul  | 97     |
| 82) Benzo(a)anthracene         | 21.70 | 228 | 181751  | 5.257 ng/ul  | 99     |
| 83) Bis(2-ethylhexyl)phthalate | 21.62 | 149 | 587492  | 32.616 ng/ul | 99     |
| 84) Chrysene                   | 21.77 | 228 | 189326  | 5.868 ng/ul  | 97     |
| 87) Benzo(b)fluoranthene       | 23.95 | 252 | 212219  | 5.666 ng/ul  | 97     |
| 88) Benzo(k)fluoranthene       | 24.01 | 252 | 74061m  | 2.056 ng/ul  |        |
| 90) Benzo(a)pyrene             | 24.83 | 252 | 171794  | 4.813 ng/ul  | 98     |
| 91) Indeno(1,2,3-cd)pyrene     | 28.70 | 276 | 103312  | 2.482 ng/ul  | 96     |
| 93) Benzo(g,h,i)perylene       | 29.85 | 276 | 106286m | 3.058 ng/ul  |        |

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

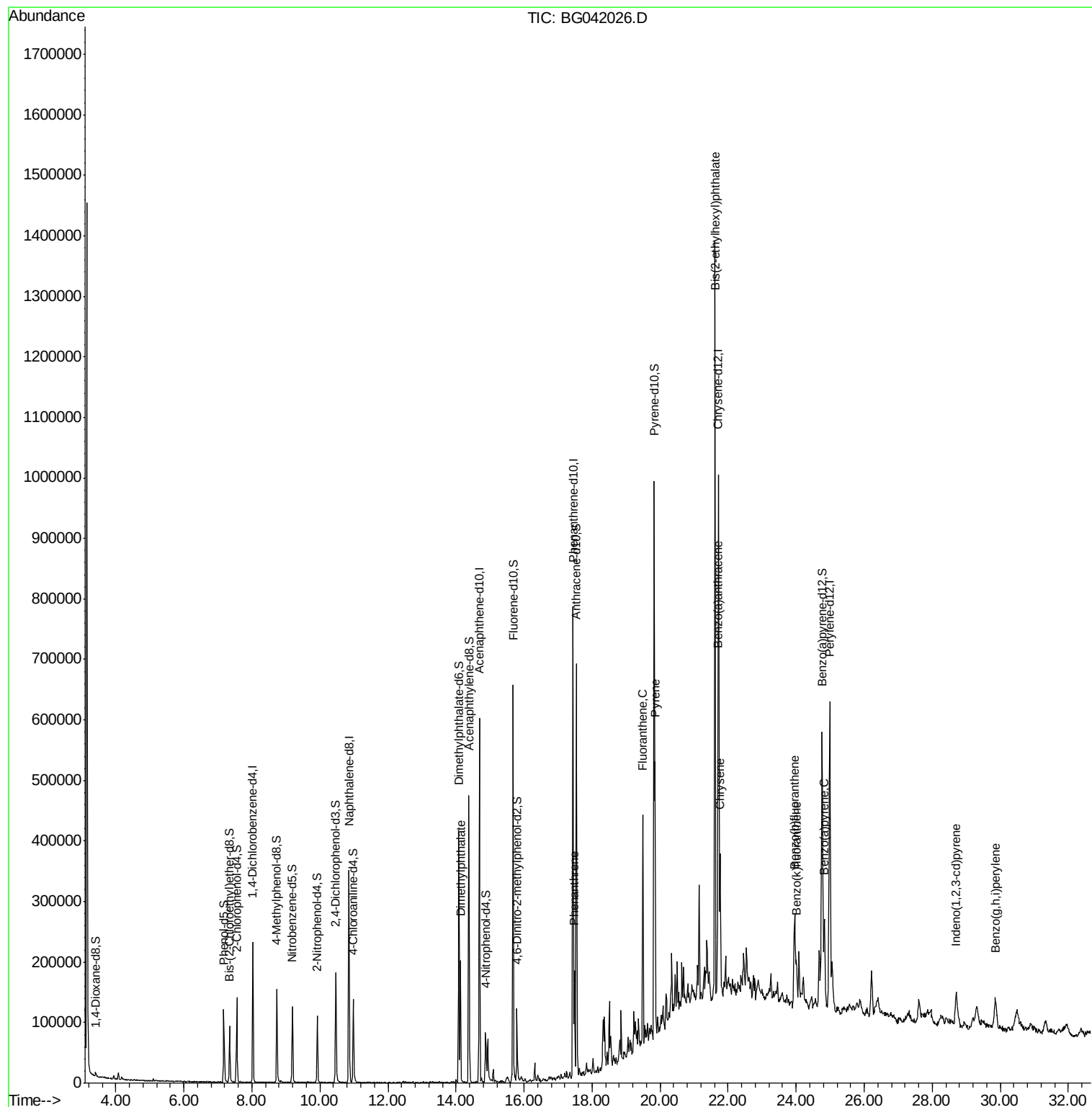
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080619\  
Data File : BG042026.D  
Acq On : 7 Aug 2019 11:47  
Operator : HP/JU  
Sample : K4028-04  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

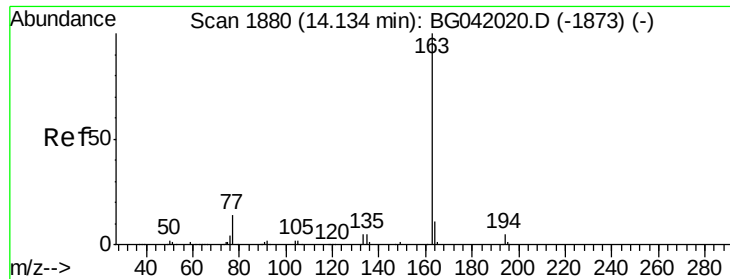
Instrument :  
BNA\_G  
ClientSampleId :  
BENQ6

Manual Integrations  
APPROVED

mohammad  
8/7/2019 4:40:44 PM

Quant Time: Aug 07 13:22:11 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Aug 07 12:00:36 2019  
Response via : Initial Calibration





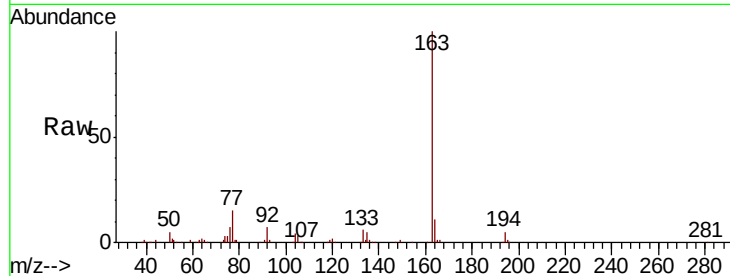
#44  
Dimethylphthalate  
Concen: 8.079 ng/ul  
RT: 14.13 min Scan# 1879  
Delta R.T. -0.00 min  
Lab File: BG042026.D  
Acq: 7 Aug 2019 11:47

Instrument :  
BNA\_G  
ClientSampleId :  
BENQ6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.9   | 4.2   | 6.2   |
| 164     | 10.9  | 7.8   | 11.8  |

Manual Integrations  
APPROVED

mohammad  
8/7/2019 4:40:44 PM

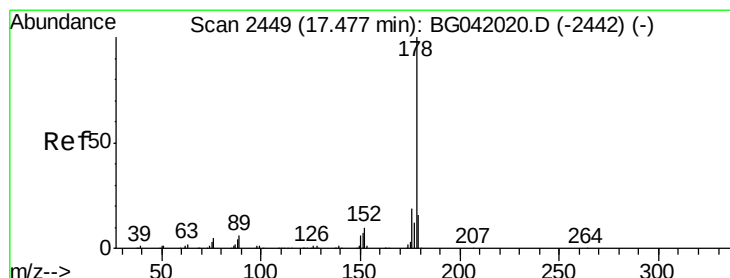
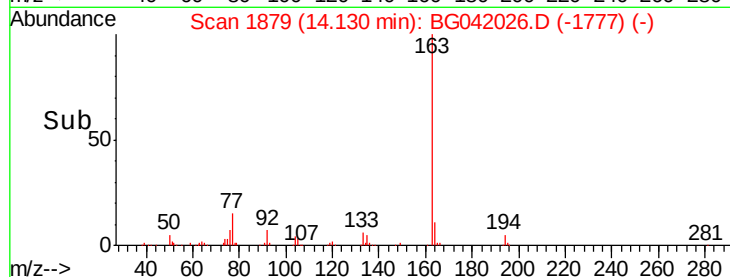
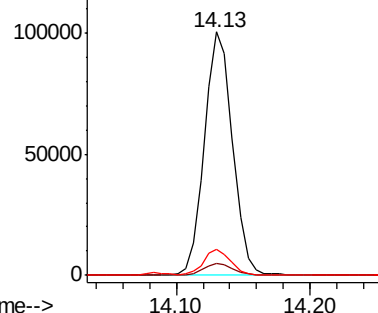


Abundance

Ion 163.00 (162.70 to 163.70): E

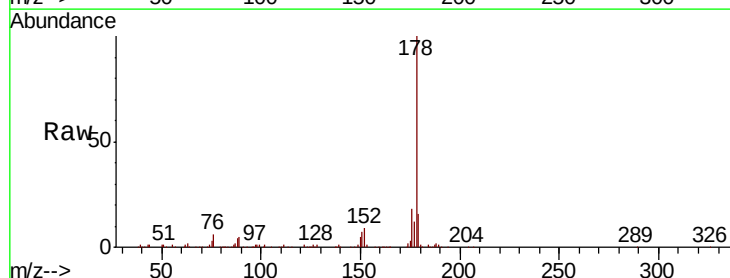
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#69  
Phenanthrene  
Concen: 4.302 ng/ul  
RT: 17.48 min Scan# 2449  
Delta R.T. -0.00 min  
Lab File: BG042026.D  
Acq: 7 Aug 2019 11:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.0  | 12.8  | 19.2  |
| 176     | 18.0  | 15.4  | 23.2  |

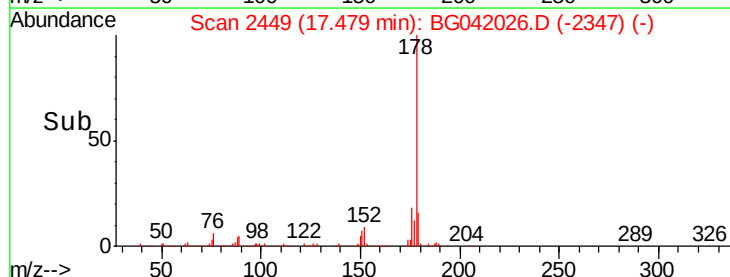
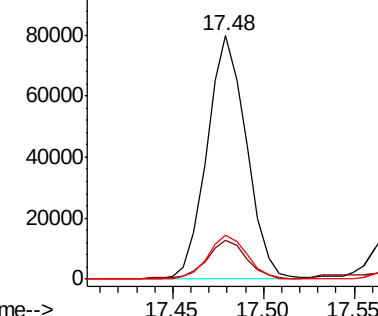


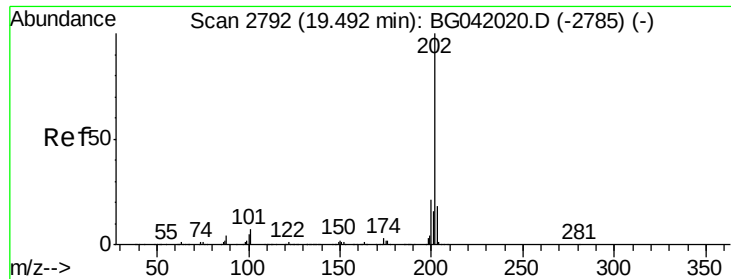
Abundance

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





#76

Fluoranthene

Concen: 7.929 ng/ul m

RT: 19.49 min Scan# 2791

Delta R.T. -0.00 min

Lab File: BG042026.D

Acq: 7 Aug 2019 11:47

Instrument :

BNA\_G

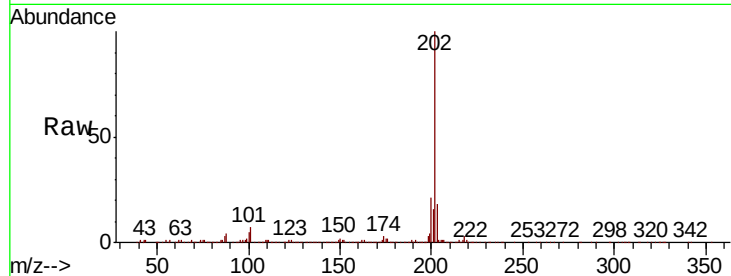
ClientSampleId :

BENQ6

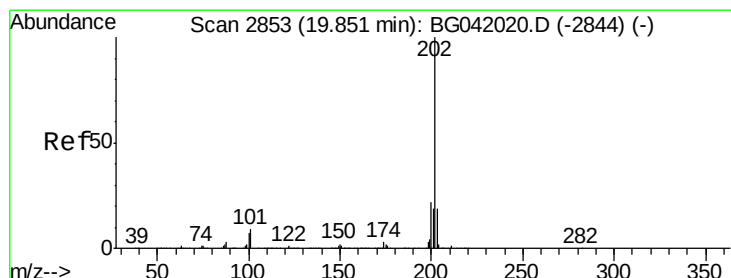
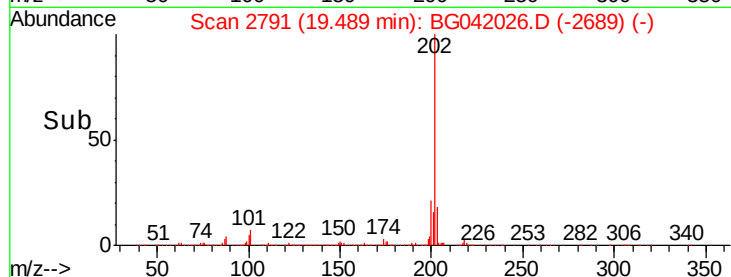
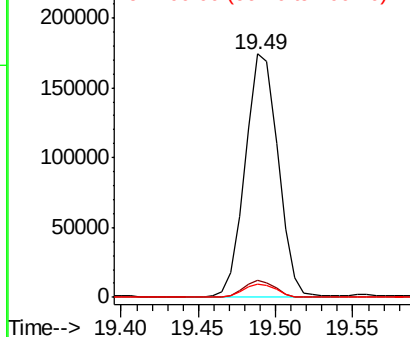
| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 202     | 100 |       | 256501 |       |       |
| 101     | 7.1 | 6.7   | 10.1   |       |       |
| 100     | 5.2 | 5.3   | 7.9#   |       |       |

Manual Integrations  
APPROVED

mohammad  
8/7/2019 4:40:44 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



#79

Pyrene

Concen: 8.907 ng/ul

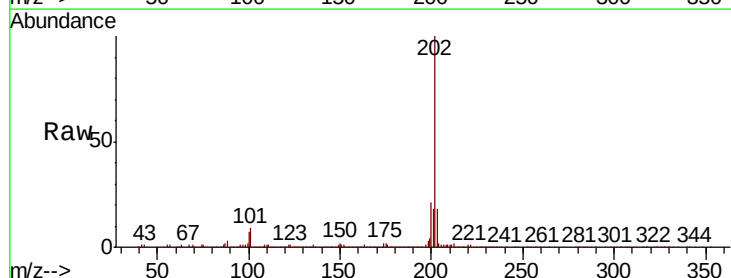
RT: 19.85 min Scan# 2853

Delta R.T. -0.00 min

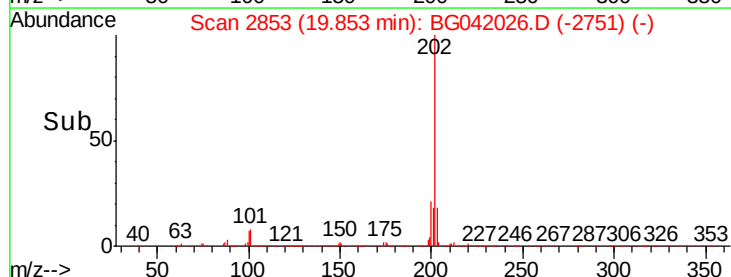
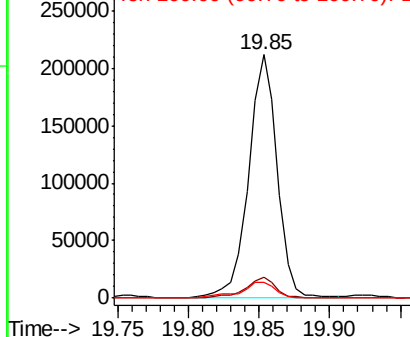
Lab File: BG042026.D

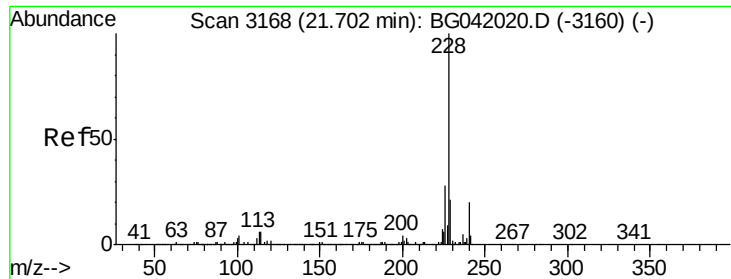
Acq: 7 Aug 2019 11:47

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 202     | 100 |       | 298750 |       |       |
| 101     | 8.6 | 7.6   | 11.4   |       |       |
| 100     | 6.7 | 6.5   | 9.7    |       |       |



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





#82

Benzo(a)anthracene

Concen: 5.257 ng/ul

RT: 21.70 min Scan# 3167

Delta R.T. -0.00 min

Lab File: BG042026.D

Acq: 7 Aug 2019 11:47

Instrument :

BNA\_G

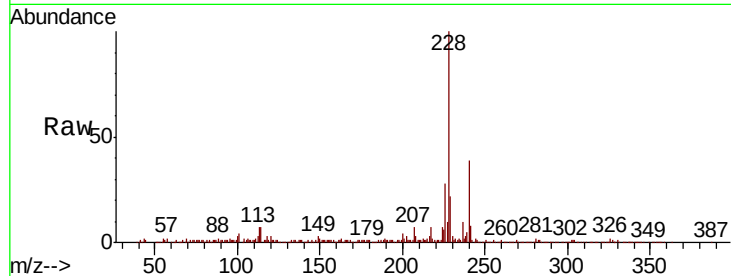
ClientSampleId :

BENQ6

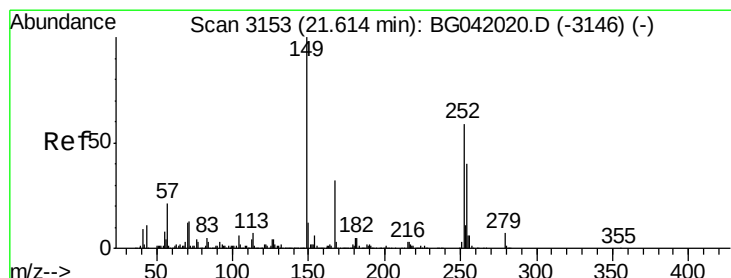
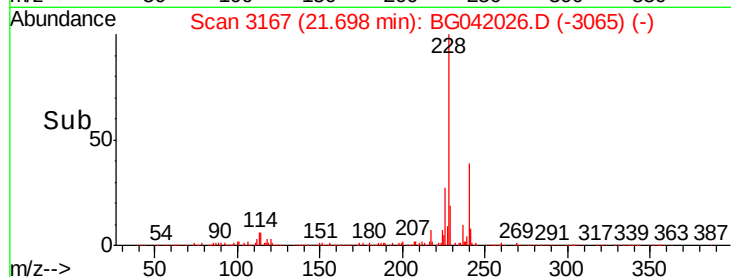
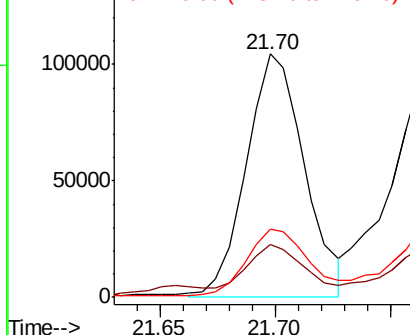
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.6  | 17.0  | 25.6  |
| 226     | 28.2  | 23.3  | 34.9  |

Manual Integrations  
APPROVED

mohammad  
8/7/2019 4:40:44 PM



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 32.616 ng/ul

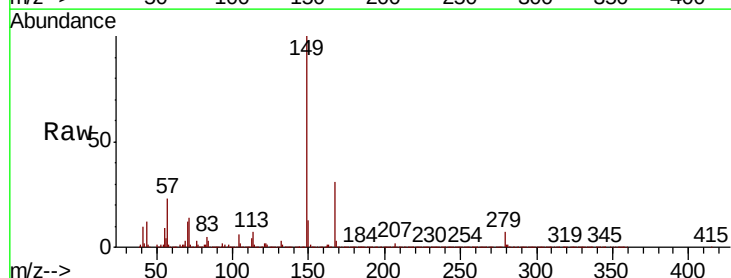
RT: 21.62 min Scan# 3153

Delta R.T. 0.00 min

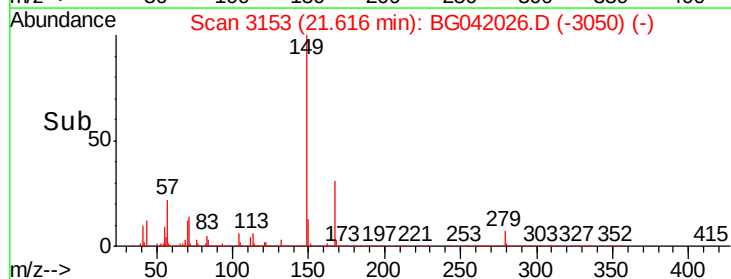
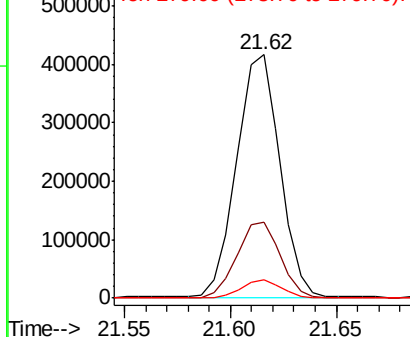
Lab File: BG042026.D

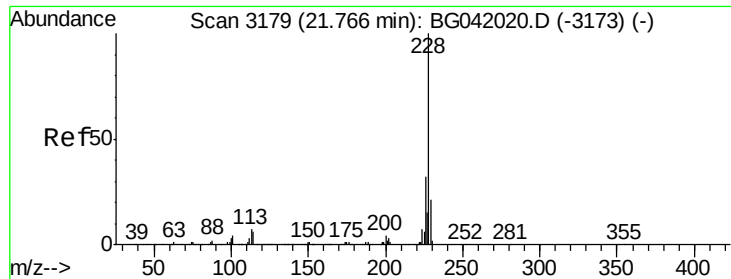
Acq: 7 Aug 2019 11:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 31.3  | 25.0  | 37.4  |
| 279     | 7.4   | 5.2   | 7.8   |



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E





#84

Chrysene

Concen: 5.868 ng/ul

RT: 21.77 min Scan# 3179

Delta R.T. 0.00 min

Lab File: BG042026.D

Acq: 7 Aug 2019 11:47

Instrument :

BNA\_G

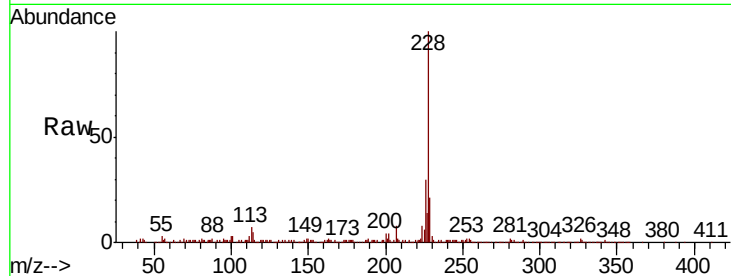
ClientSampled :

BENQ6

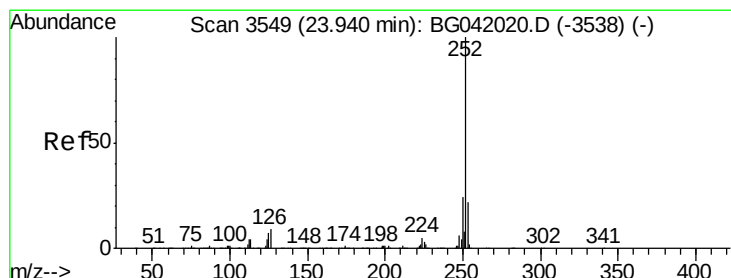
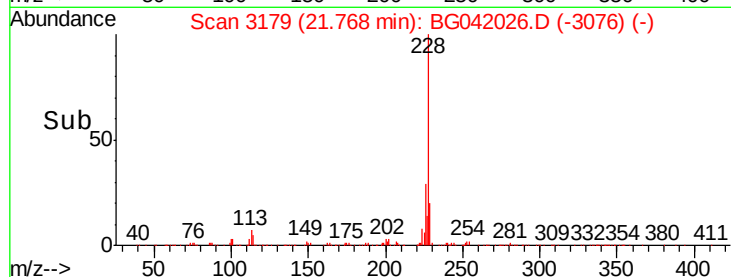
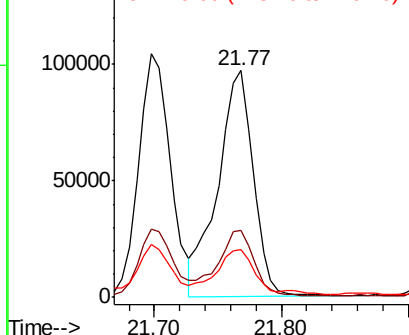
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 189326 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.6  | 25.7  | 38.5   |
| 229       | 21.3  | 16.6  | 24.8   |

Manual Integrations  
APPROVED

mohammad  
8/7/2019 4:40:44 PM



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



#87

Benzo(b)fluoranthene

Concen: 5.666 ng/ul

RT: 23.95 min Scan# 3550

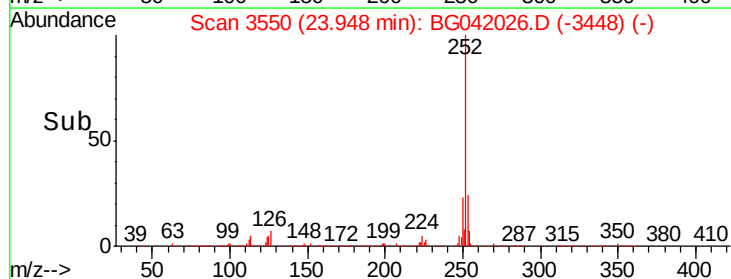
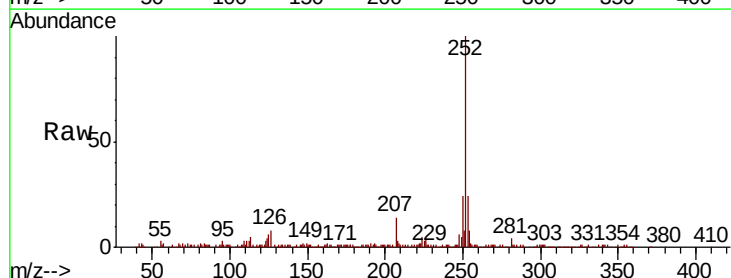
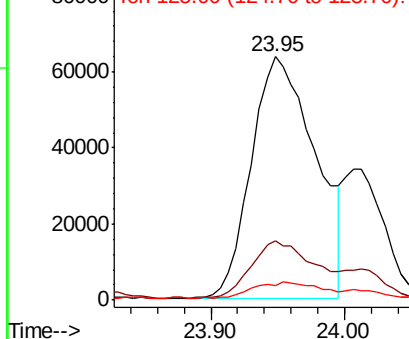
Delta R.T. -0.00 min

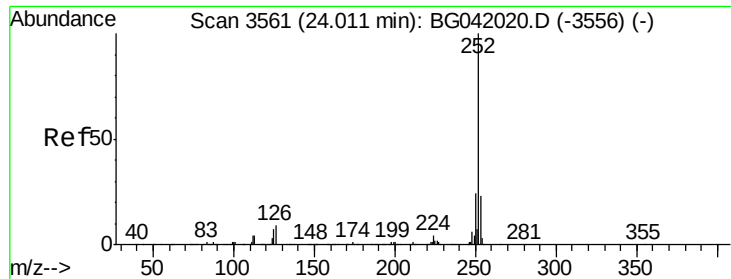
Lab File: BG042026.D

Acq: 7 Aug 2019 11:47

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 212219 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.3  | 18.4  | 27.6   |
| 125       | 6.1   | 5.8   | 8.8    |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 2.056 ng/ul m

RT: 24.01 min Scan# 3561

Delta R.T. -0.00 min

Lab File: BG042026.D

Acq: 7 Aug 2019 11:47

Instrument :

BNA\_G

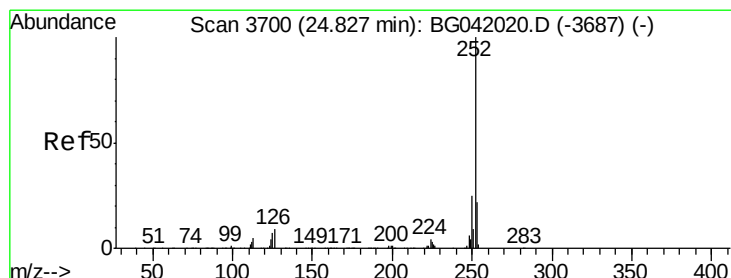
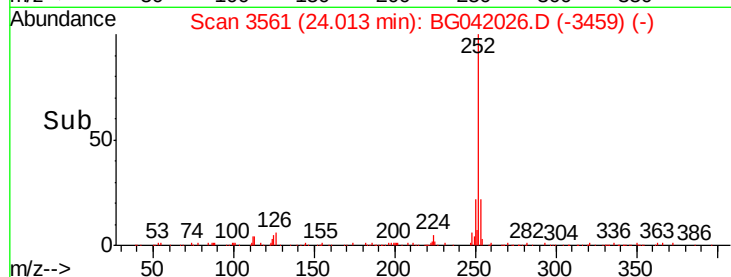
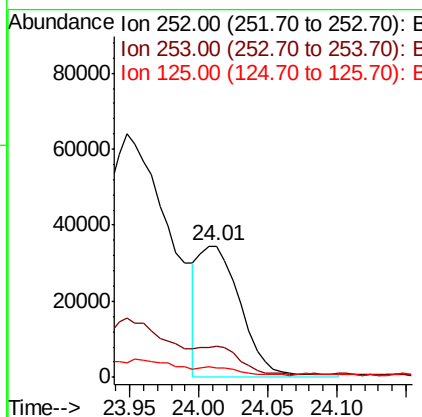
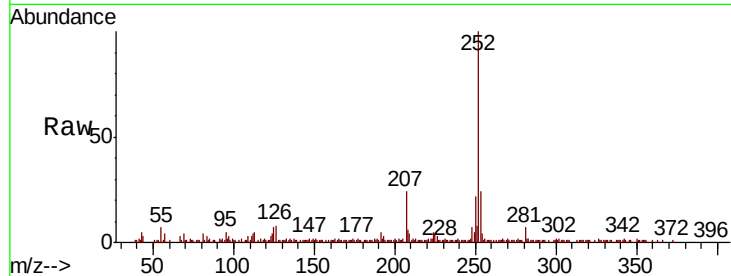
ClientSampleId :

BENQ6

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 74061 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.9  | 18.3  | 27.5  |
| 125       | 7.5   | 5.5   | 8.3   |

Manual Integrations  
APPROVED

mohammad  
8/7/2019 4:40:44 PM



#90

Benzo(a)pyrene

Concen: 4.813 ng/ul

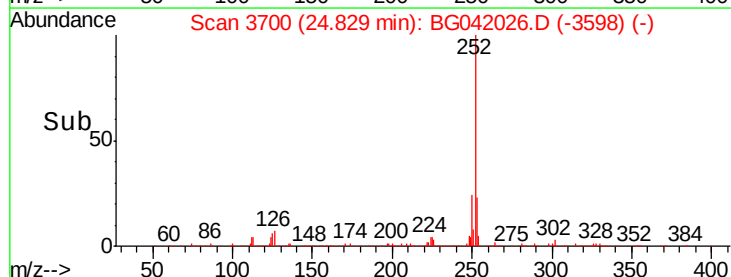
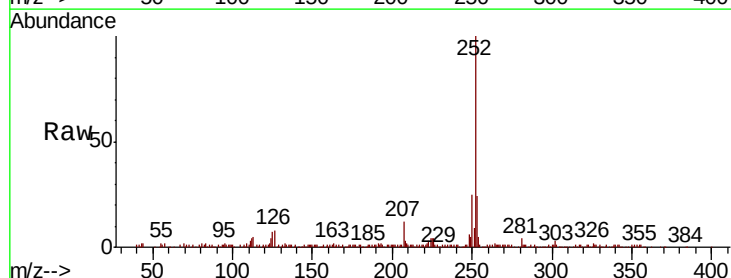
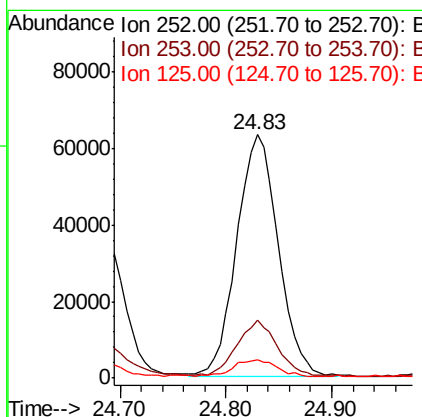
RT: 24.83 min Scan# 3700

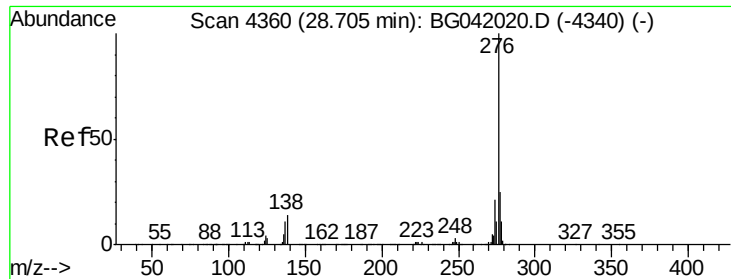
Delta R.T. -0.00 min

Lab File: BG042026.D

Acq: 7 Aug 2019 11:47

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 171794 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.9  | 18.3  | 27.5   |
| 125       | 7.4   | 6.5   | 9.7    |





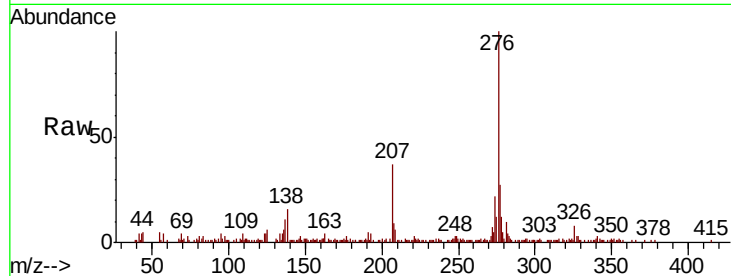
#91  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.482 ng/ul  
 RT: 28.70 min Scan# 4359  
 Delta R.T. -0.01 min  
 Lab File: BG042026.D  
 Acq: 7 Aug 2019 11:47

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BENQ6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.7  | 12.0  | 18.0  |
| 277     | 26.8  | 19.2  | 28.8  |

Manual Integrations  
 APPROVED

mohammad  
 8/7/2019 4:40:44 PM

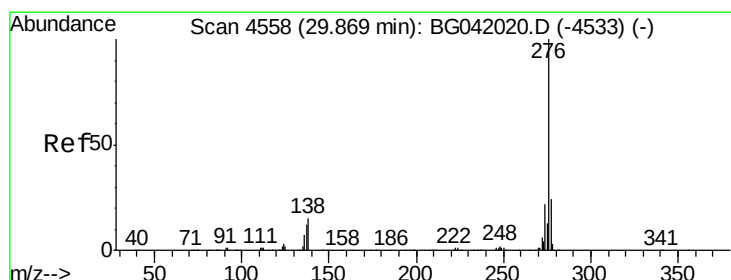
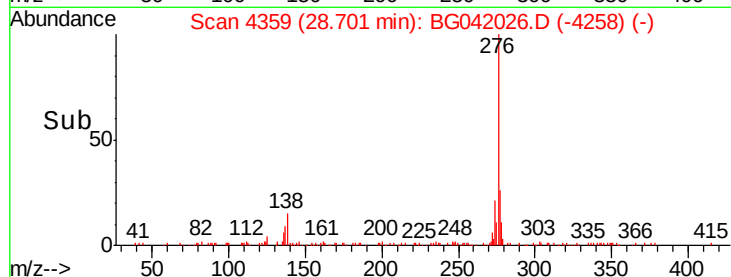
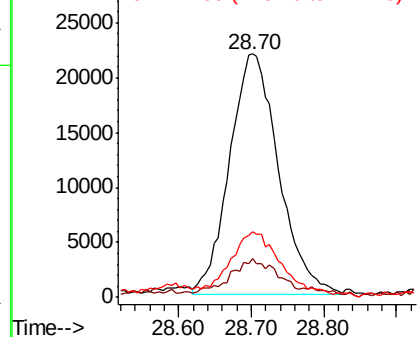


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#93  
 Benzo(g,h,i)perylene  
 Concen: 3.058 ng/ul m  
 RT: 29.85 min Scan# 4555  
 Delta R.T. -0.02 min  
 Lab File: BG042026.D  
 Acq: 7 Aug 2019 11:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.0  | 12.6  | 18.8  |
| 277     | 22.5  | 19.2  | 28.8  |

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

