

Data Path : Z:\HPCHEM1\BNA M\DATA\BM101117\  
 Data File : BM012077.D  
 Acq On : 11 Oct 2017 20:20  
 Operator : SJ/JU  
 Sample : I5490-03  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-70(0-1)-092717

Manual Integrations  
 APPROVED

Sohil  
 10/13/2017 12:09:18 PM

Quant Time: Oct 12 02:45:04 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Oct 12 01:21:53 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.84  | 152  | 289312   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.65 | 136  | 1159227  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.49 | 164  | 631920   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.23 | 188  | 1298132  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.41 | 240  | 1343947  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.73 | 264  | 1462713  | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.25  | 96  | 14388   | 2.35  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.00  | 99  | 310168  | 12.46 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.17  | 67  | 204353  | 13.87 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.37  | 132 | 280152  | 14.03 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.55  | 113 | 238256  | 11.07 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.00  | 128 | 131594  | 15.94 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.73  | 143 | 147124  | 15.82 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.26 | 165 | 278371  | 14.81 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.79 | 131 | 181047  | 8.83  | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.89 | 166 | 891105  | 16.27 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.18 | 160 | 1050152 | 16.32 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.70 | 143 | 71597   | 7.48  | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.48 | 176 | 728129  | 15.06 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.61 | 200 | 53653   | 6.14  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.33 | 188 | 1036576 | 16.20 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.63 | 212 | 1095913 | 18.08 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.58 | 264 | 1126730 | 16.01 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       | Ovalue |    |
|--------------------------------|-------|-----|--------|-------|--------|----|
| 4) Benzaldehyde                | 6.98  | 77  | 26895  | 2.168 | ng/ul# | 57 |
| 44) Dimethylphthalate          | 13.94 | 163 | 395670 | 7.510 | ng/ul  | 99 |
| 69) Phenanthrene               | 17.27 | 178 | 191559 | 2.683 | ng/ul  | 97 |
| 74) Fluoranthene               | 19.29 | 202 | 380938 | 4.372 | ng/ul# | 90 |
| 77) Pyrene                     | 19.65 | 202 | 351829 | 4.721 | ng/ul# | 88 |
| 80) Benzo(a)anthracene         | 21.40 | 228 | 194793 | 2.530 | ng/ul# | 91 |
| 81) Bis(2-ethylhexyl)phthalate | 21.31 | 149 | 156333 | 3.600 | ng/ul  | 99 |
| 82) Chrysene                   | 21.44 | 228 | 202653 | 2.770 | ng/ul# | 89 |
| 85) Benzo(b)fluoranthene       | 23.03 | 252 | 312422 | 3.514 | ng/ul# | 78 |
| 88) Benzo(a)pyrene             | 23.63 | 252 | 200420 | 2.346 | ng/ul# | 81 |
| 89) Indeno(1,2,3-cd)pyrene     | 26.10 | 276 | 168215 | 1.840 | ng/ul# | 81 |
| 91) Benzo(g,h,i)perylene       | 26.83 | 276 | 178968 | 2.367 | ng/ul# | 80 |

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

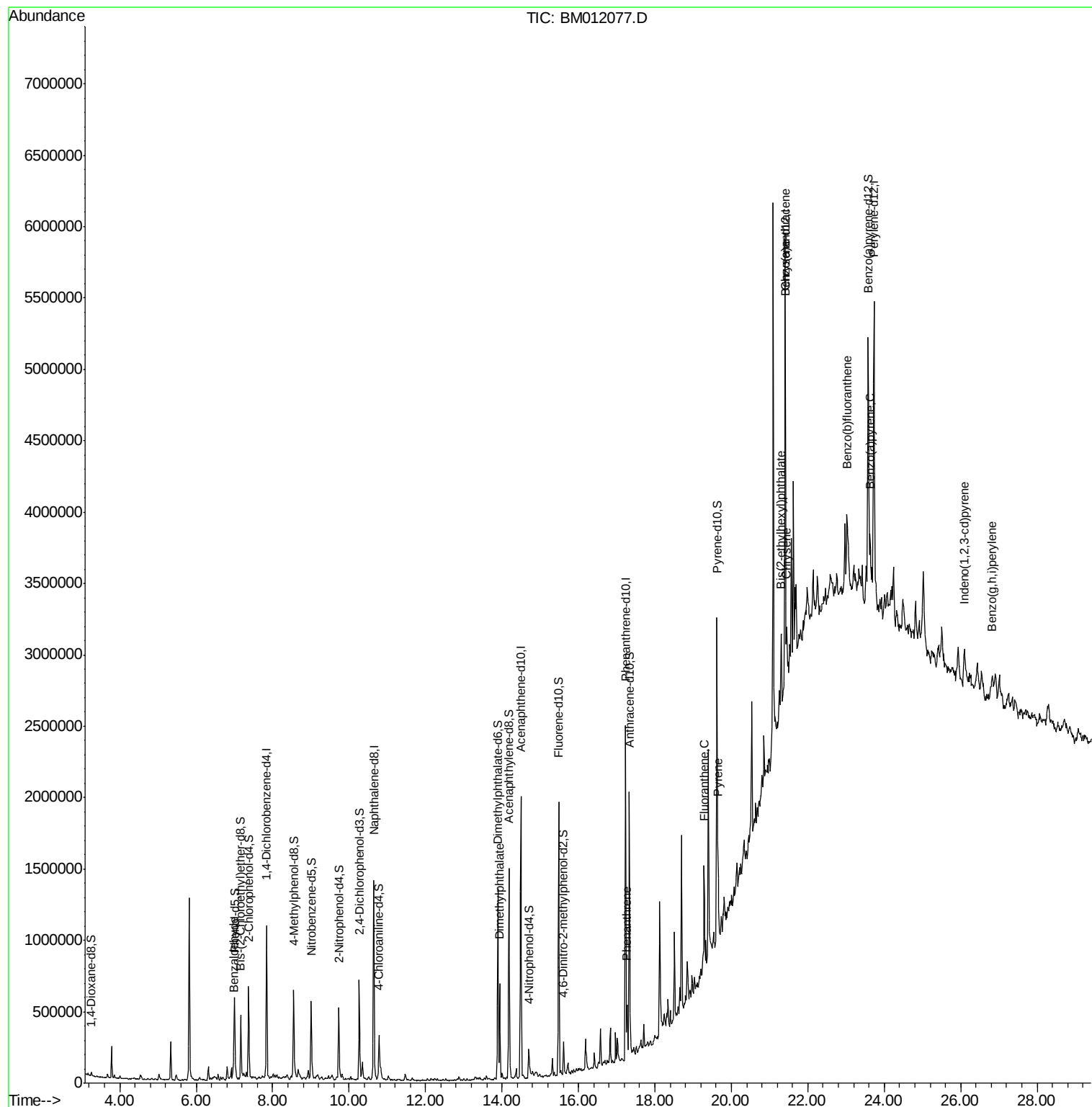
Data Path : Z:\HPCHEM1\BNA M\DATA\BM101117\  
Data File : BM012077.D  
Acq On : 11 Oct 2017 20:20  
Operator : SJ/JU  
Sample : I5490-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

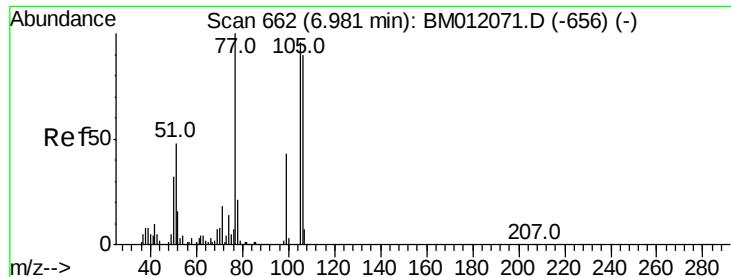
Instrument :  
BNA\_M  
ClientSampleId :  
B-70(0-1)-092717

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Quant Time: Oct 12 02:45:04 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Oct 12 01:21:53 2017  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 2.168 ng/ul

RT: 6.98 min Scan# 662

Delta R.T. 0.00 min

Lab File: BM012077.D

Acq: 11 Oct 2017 20:20

Instrument :

BNA\_M

ClientSampleId :

B-70(0-1)-092717

Tot Ion: 77 Resp: 26895

Ion Ratio Lower Upper

77 100

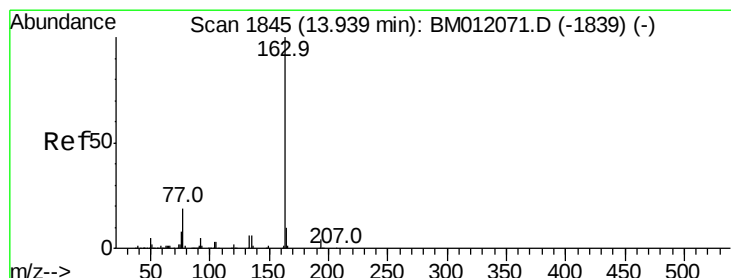
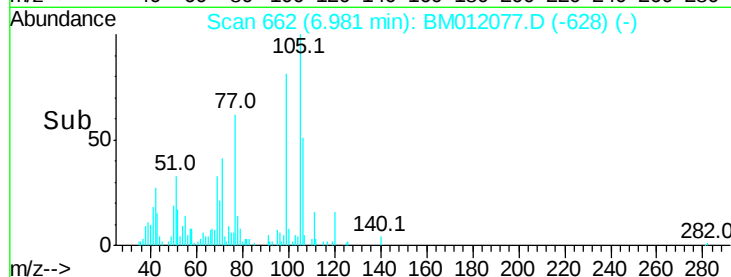
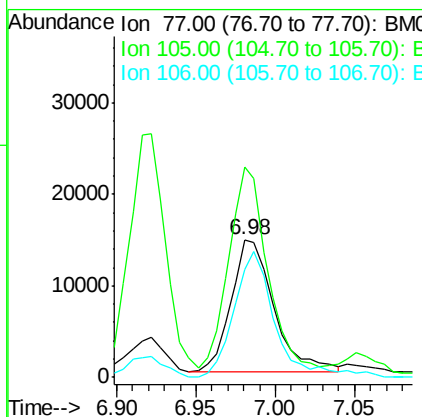
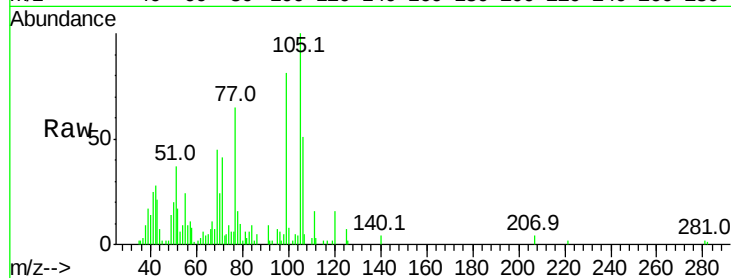
105 153.5 66.1 99.1#

106 78.2 67.8 101.6

Manual Integrations  
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#44

Dimethylphthalate

Concen: 7.510 ng/ul

RT: 13.94 min Scan# 1845

Delta R.T. 0.00 min

Lab File: BM012077.D

Acq: 11 Oct 2017 20:20

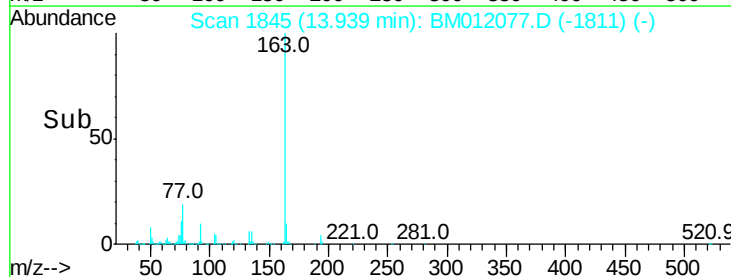
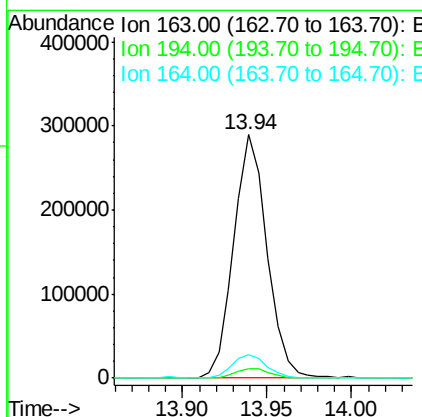
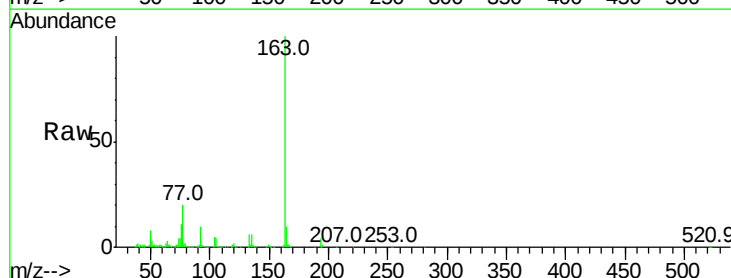
Tgt Ion: 163 Resp: 395670

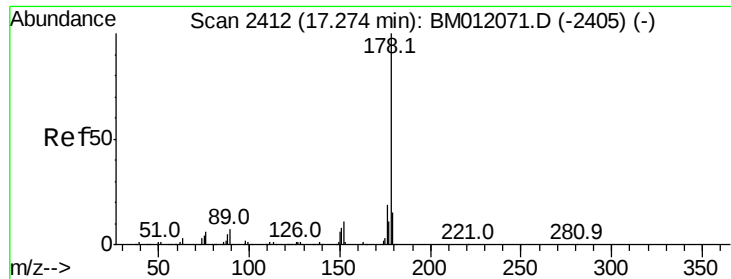
Ion Ratio Lower Upper

163 100

194 4.1 3.5 5.3

164 9.8 8.2 12.4





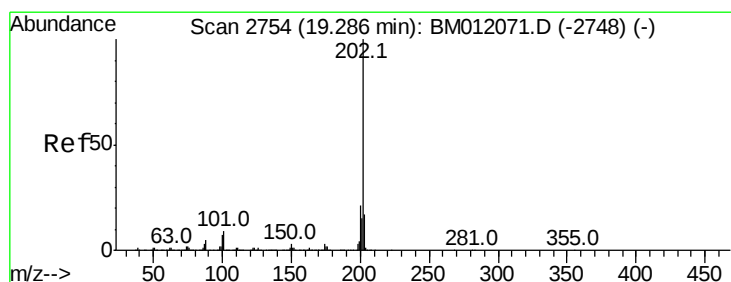
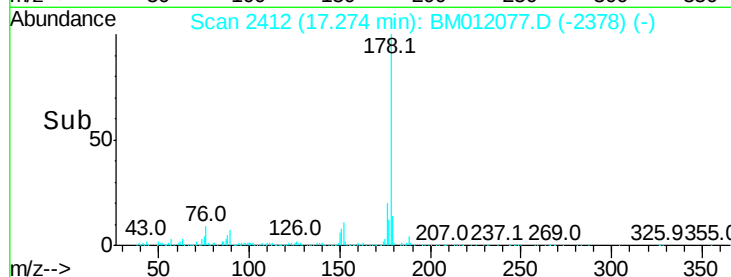
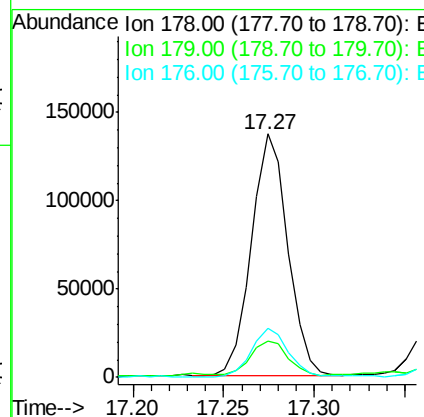
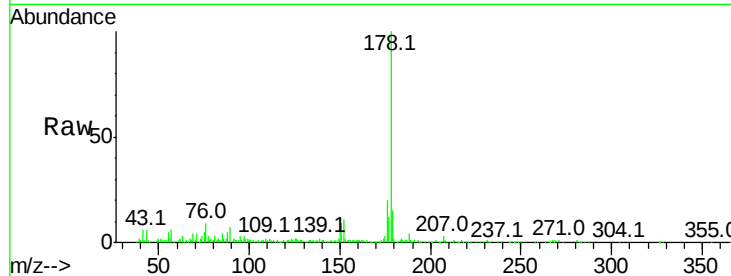
#69  
Phenanthrene  
Concen: 2.683 ng/ul  
RT: 17.27 min Scan# 2412  
Delta R.T. 0.00 min  
Lab File: BM012077.D  
Acq: 11 Oct 2017 20:20

Instrument :  
BNA\_M  
ClientSampleId :  
B-70(0-1)-092717

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 178     | 100   |      |       |       |
| 179     | 14.9  | 12.6 | 19.0  |       |
| 176     | 19.9  | 14.9 | 22.3  |       |

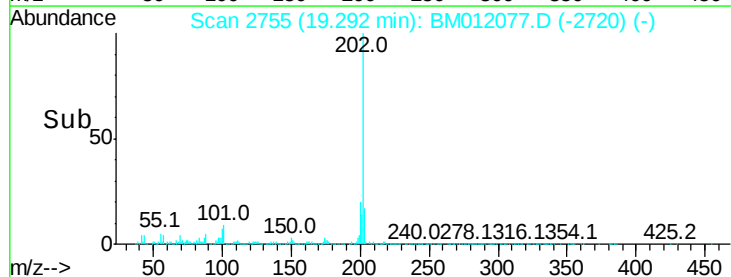
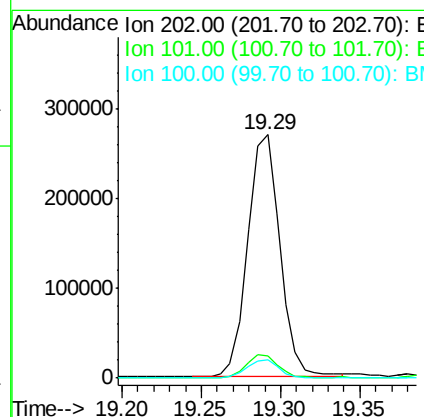
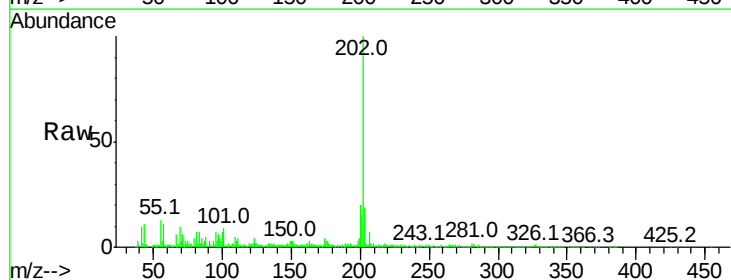
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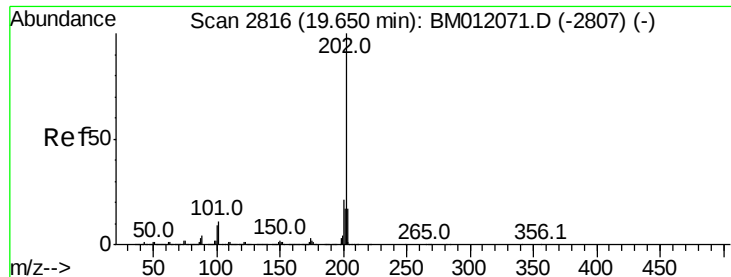
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#74  
Fluoranthene  
Concen: 4.372 ng/ul  
RT: 19.29 min Scan# 2755  
Delta R.T. 0.01 min  
Lab File: BM012077.D  
Acq: 11 Oct 2017 20:20

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 101     | 9.4   | 4.6  | 7.0#  |       |
| 100     | 7.3   | 3.4  | 5.2#  |       |





#77

Pvrene

Concen: 4.721 ng/ul

RT: 19.65 min Scan# 2816

Delta R.T. 0.00 min

Lab File: BM012077.D

Acq: 11 Oct 2017 20:20

Instrument :

BNA\_M

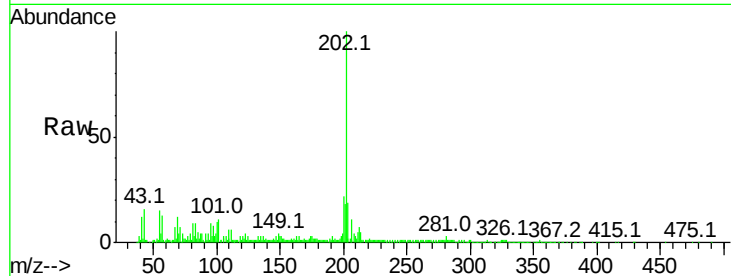
ClientSampleId :

B-70(0-1)-092717

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 351829 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.1  | 5.1   | 7.7#   |
| 100       | 9.6   | 4.9   | 7.3#   |

Manual Integrations  
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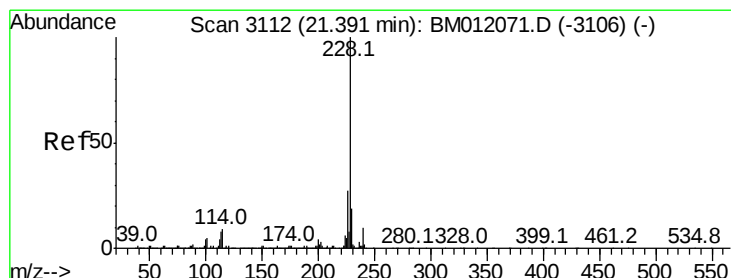
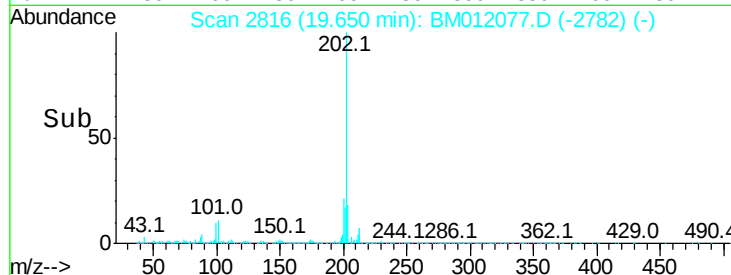
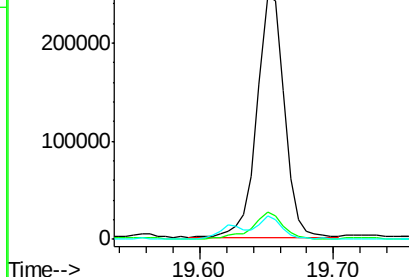
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E



#80

Benzo(a)anthracene

Concen: 2.530 ng/ul

RT: 21.40 min Scan# 3113

Delta R.T. 0.01 min

Lab File: BM012077.D

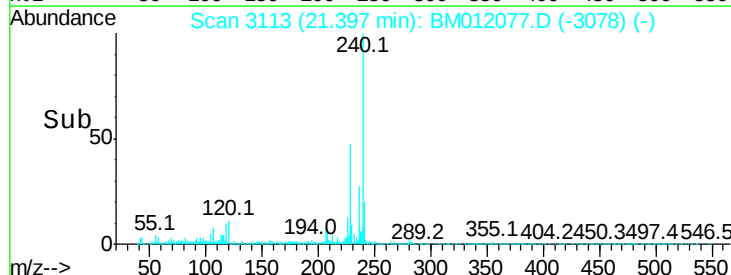
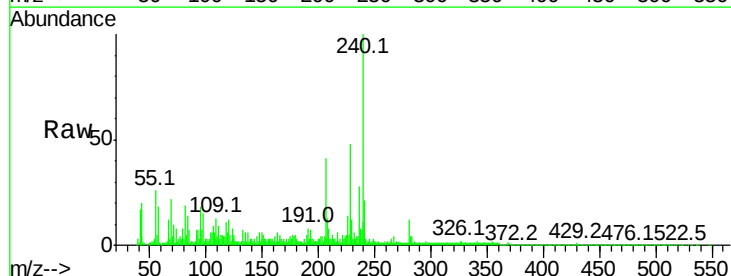
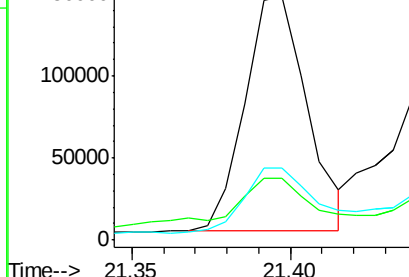
Acq: 11 Oct 2017 20:20

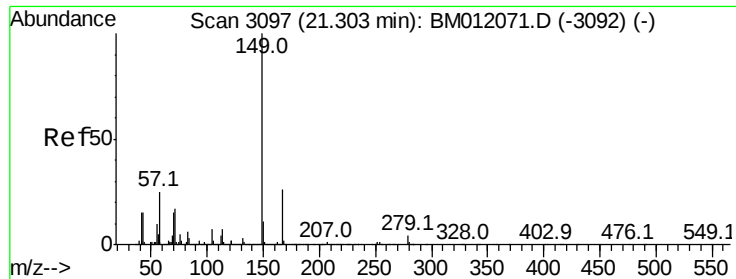
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 194793 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 25.3  | 15.4  | 23.0#  |
| 226       | 29.5  | 21.4  | 32.0   |

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





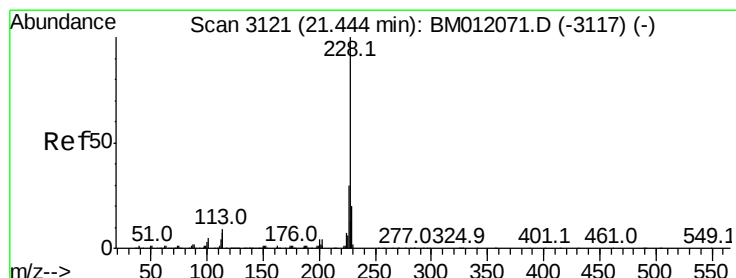
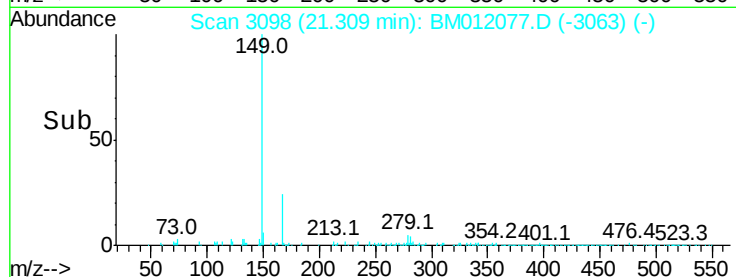
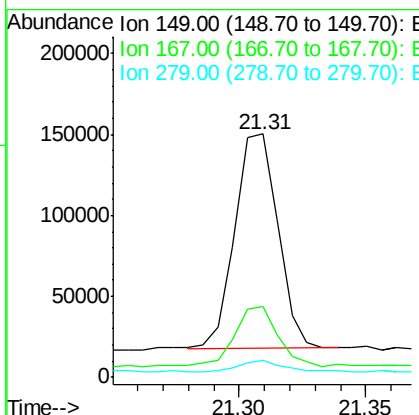
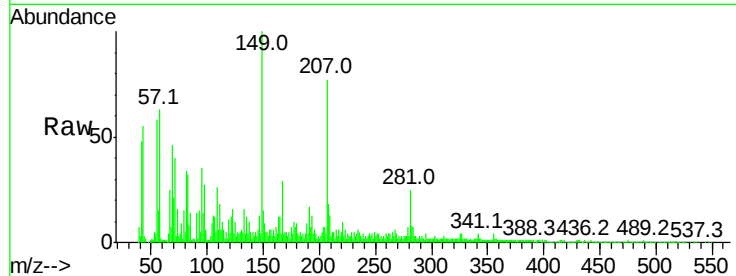
#81  
 Bis(2-ethylhexyl)phthalate  
 Concen: 3.600 ng/ul  
 RT: 21.31 min Scan# 3098  
 Delta R.T. 0.01 min  
 Lab File: BM012077.D  
 Acq: 11 Oct 2017 20:20

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-70(0-1)-092717

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 156333 |       |       |
| 167     | 28.9  | 22.8   | 34.2  |       |
| 279     | 6.8   | 4.9    | 7.3   |       |

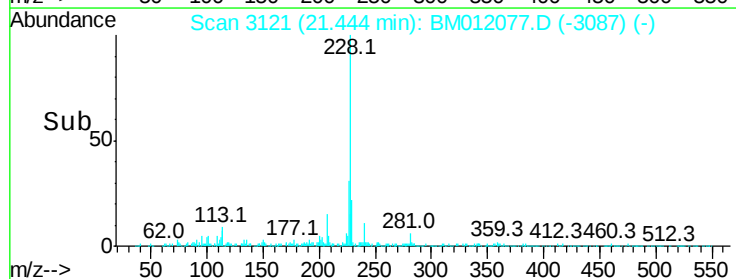
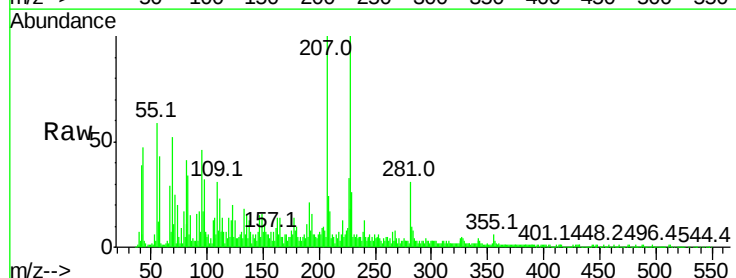
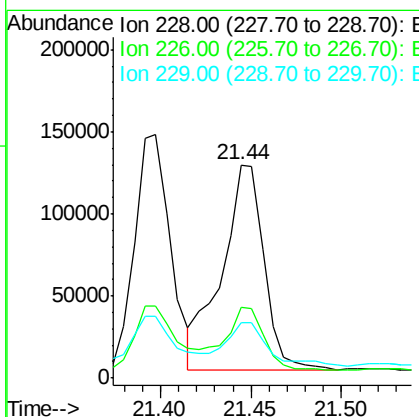
Manual Integrations  
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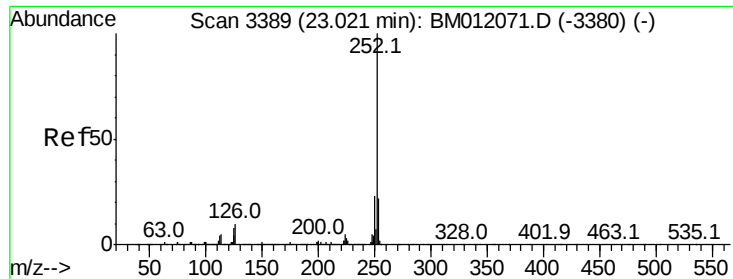
Sohil  
 10/13/2017 12:09:18 PM



#82  
 Chrysene  
 Concen: 2.770 ng/ul  
 RT: 21.44 min Scan# 3121  
 Delta R.T. 0.00 min  
 Lab File: BM012077.D  
 Acq: 11 Oct 2017 20:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 202653 |       |       |
| 226     | 33.5  | 23.4   | 35.2  |       |
| 229     | 26.1  | 15.5   | 23.3  |       |





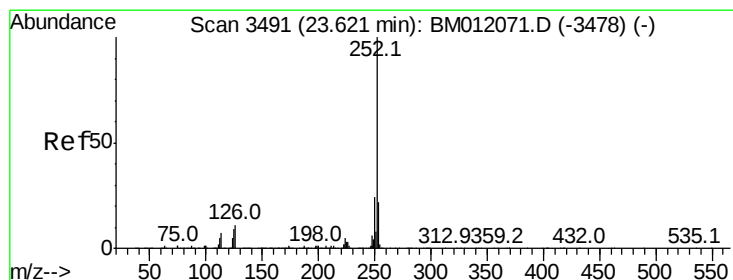
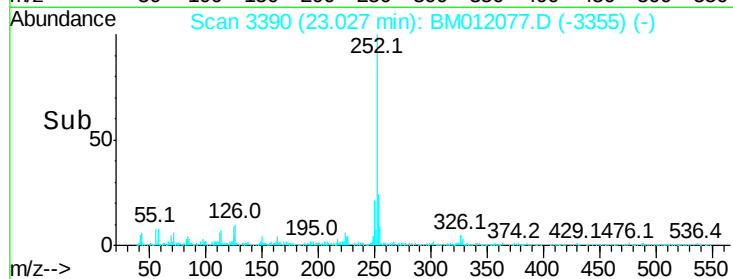
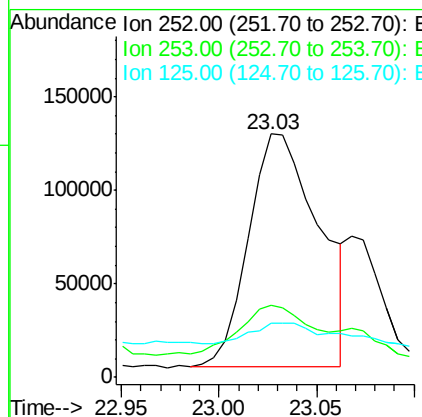
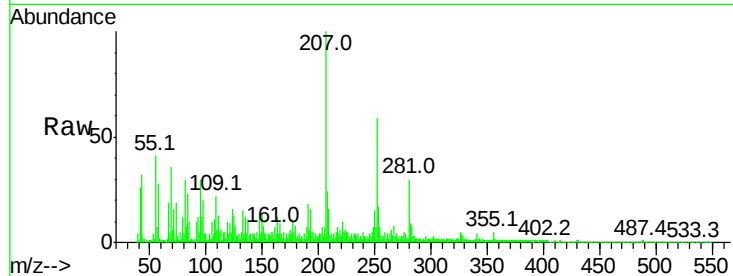
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Benzo(b)fluoranthene  
Concen: 3.514 ng/ul  
RT: 23.03 min Scan# 3390  
Delta R.T. 0.01 min  
Lab File: BM012077.D  
Acq: 11 Oct 2017 20:20

Instrument :  
BNA\_M  
ClientSampleId :  
B-70(0-1)-092717

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 252     | 100   |      |       |       |
| 253     | 29.6  | 17.9 | 26.9# |       |
| 125     | 22.3  | 3.6  | 5.4#  |       |

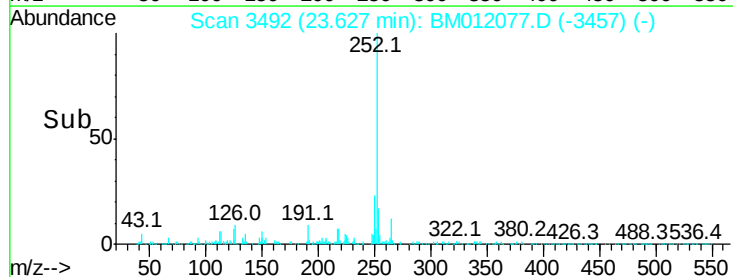
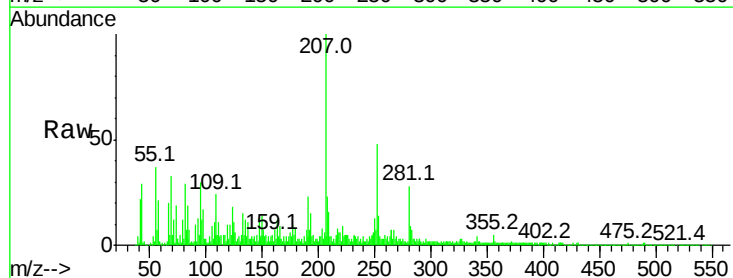
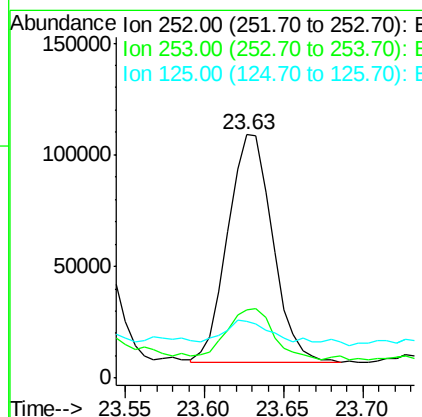
Manual Integrations  
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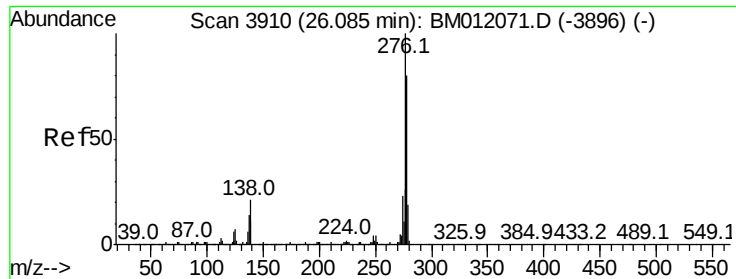
Sohil  
10/13/2017 12:09:18 PM



#88  
Benzo(a)pyrene  
Concen: 2.346 ng/ul  
RT: 23.63 min Scan# 3492  
Delta R.T. 0.01 min  
Lab File: BM012077.D  
Acq: 11 Oct 2017 20:20

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 252     | 100   |      |       |       |
| 253     | 28.2  | 18.2 | 27.2# |       |
| 125     | 23.1  | 4.0  | 6.0#  |       |





#89

Indeno(1,2,3-cd)pyrene

Concen: 1.840 ng/ul

RT: 26.10 min Scan# 3912

Delta R.T. 0.01 min

Lab File: BM012077.D

Acq: 11 Oct 2017 20:20

Instrument :

BNA\_M

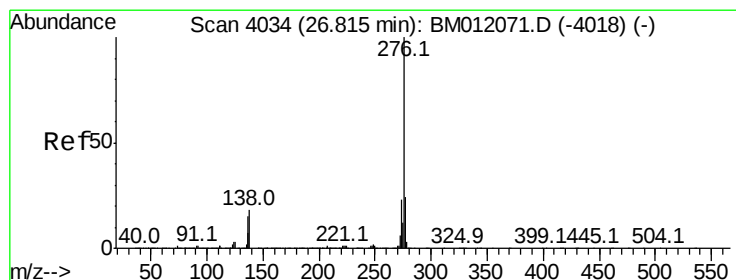
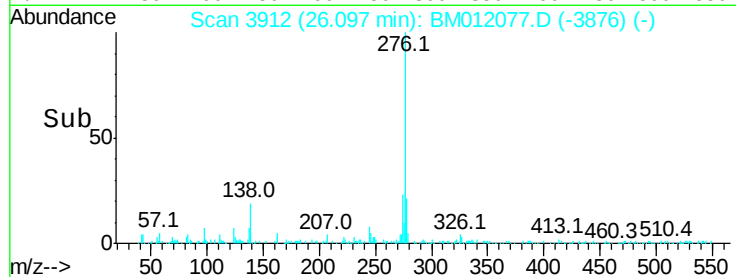
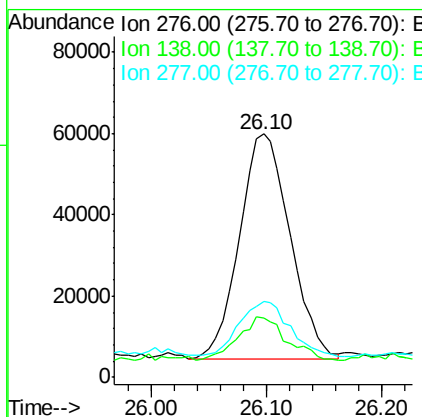
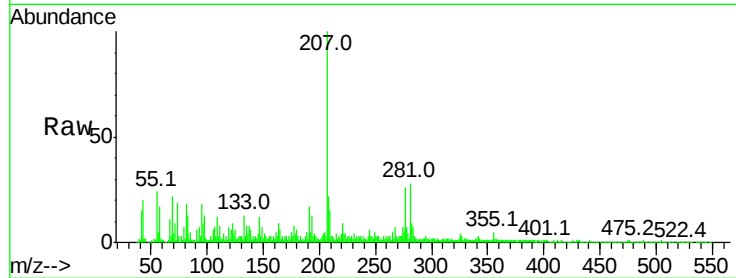
ClientSampleId :

B-70(0-1)-092717

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 168215 |       |       |
| 138     | 24.5  | 9.3    | 13.9# |       |
| 277     | 31.0  | 19.9   | 29.9# |       |

Manual Integrations  
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#91

Benzo(g,h,i)perylene

Concen: 2.367 ng/ul

RT: 26.83 min Scan# 4037

Delta R.T. 0.02 min

Lab File: BM012077.D

Acq: 11 Oct 2017 20:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 178968 |       |       |
| 138     | 21.9  | 8.5    | 12.7# |       |
| 277     | 30.7  | 18.6   | 28.0# |       |

