

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM062716\  
 Data File : BM006072.D  
 Acq On : 27 Jun 2016 16:33  
 Operator : UM/SJ  
 Sample : H3669-03  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y56

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Quant Time: Jun 28 03:10:00 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM062516.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jun 28 02:11:41 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 144352   | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.44 | 136  | 788952   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.31 | 164  | 546608   | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.06 | 188  | 1386785  | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.25 | 240  | 1619161  | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.47 | 264  | 1544928  | 20.00 | ng/ul | -0.01    |

| System Monitoring Compounds    | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 2) 1,4-Dioxane-d8              | 3.18  | 96   | 3484     | 1.08  | ng/uL | 0.00     |
| 3) Phenol-d5                   | 6.83  | 99   | 164000   | 10.80 | ng/ul | 0.00     |
| 4) Bis-(2-Chloroethyl)ether-d  | 7.00  | 67   | 109640   | 12.98 | ng/ul | 0.00     |
| 5) 2-Chlorophenol-d4           | 7.19  | 132  | 127319   | 12.04 | ng/ul | 0.00     |
| 6) 4-Methylphenol-d8           | 8.36  | 113  | 116930   | 9.12  | ng/ul | 0.00     |
| 8) Nitrobenzene-d5             | 8.81  | 128  | 72767    | 12.11 | ng/ul | 0.00     |
| 9) 2-Nitrophenol-d4            | 9.53  | 143  | 74746    | 11.18 | ng/ul | 0.00     |
| 10) 2,4-Dichlorophenol-d3      | 10.06 | 165  | 152390   | 11.89 | ng/ul | 0.00     |
| 12) 4-Chloroaniline-d4         | 10.58 | 131  | 166537   | 11.97 | ng/ul | 0.00     |
| 16) Dimethylphthalate-d6       | 13.72 | 166  | 559218   | 11.95 | ng/ul | 0.00     |
| 17) Acenaphthylene-d8          | 14.00 | 160  | 733290   | 13.51 | ng/ul | 0.00     |
| 20) 4-Nitrophenol-d4           | 14.51 | 143  | 70892    | 7.10  | ng/ul | -0.02    |
| 21) Fluorene-d10               | 15.30 | 176  | 540757   | 13.53 | ng/ul | 0.00     |
| 24) 4,6-Dinitro-2-methylphenol | 15.43 | 200  | 34045    | 4.42  | ng/ul | -0.01    |
| 26) Anthracene-d10             | 17.15 | 188  | 880094   | 13.82 | ng/ul | 0.00     |
| 30) Pyrene-d10                 | 19.46 | 212  | 1064867  | 15.01 | ng/ul | 0.00     |
| 37) Benzo(a)pyrene-d12         | 23.33 | 264  | 888867   | 12.74 | ng/ul | -0.01    |

| Target Compounds           | R.T.  | QIon | Response | Conc | Units | Qvalue |
|----------------------------|-------|------|----------|------|-------|--------|
| 25) Phenanthrene           | 17.10 | 178  | 83707    | 1.12 | ng/ul | 96     |
| 28) Fluoranthene           | 19.12 | 202  | 324889   | 3.40 | ng/ul | 99     |
| 31) Pyrene                 | 19.48 | 202  | 291681   | 3.15 | ng/ul | 97     |
| 32) Benzo(a)anthracene     | 21.23 | 228  | 146108   | 1.52 | ng/ul | 97     |
| 33) Chrysene               | 21.29 | 228  | 239061   | 2.72 | ng/ul | 98     |
| 35) Benzo(b)fluoranthene   | 22.80 | 252  | 347540   | 3.87 | ng/ul | 99     |
| 36) Benzo(k)fluoranthene   | 22.84 | 252  | 118093m  | 1.41 | ng/ul |        |
| 38) Benzo(a)pyrene         | 23.37 | 252  | 153863   | 1.79 | ng/ul | 99     |
| 39) Indeno(1,2,3-cd)pyrene | 25.69 | 276  | 121768   | 1.19 | ng/ul | 94     |
| 41) Benzo(g,h,i)perylene   | 26.37 | 276  | 112160   | 1.26 | ng/ul | 96     |

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

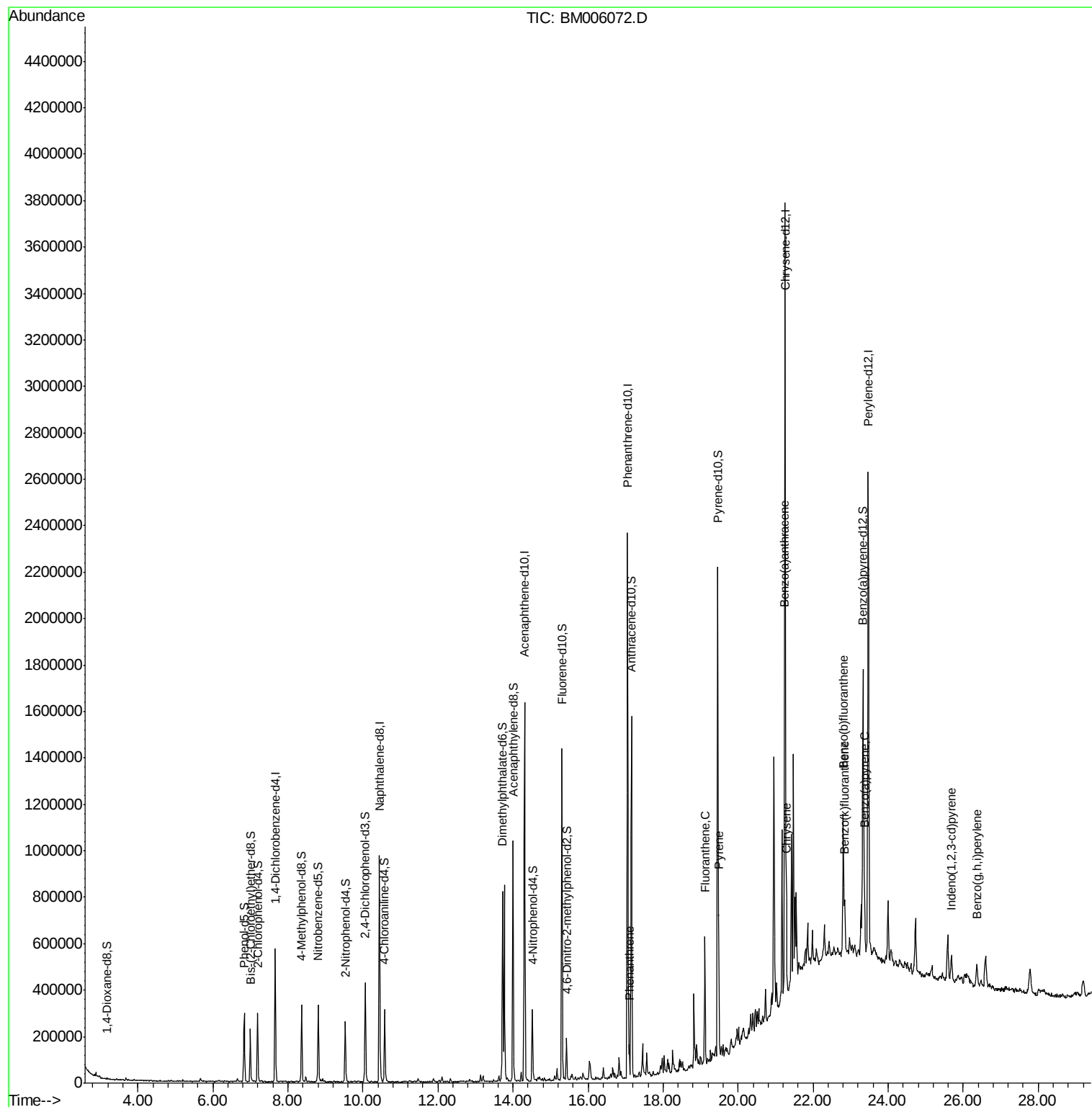
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM062716\  
Data File : BM006072.D  
Acq On : 27 Jun 2016 16:33  
Operator : UM/SJ  
Sample : H3669-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

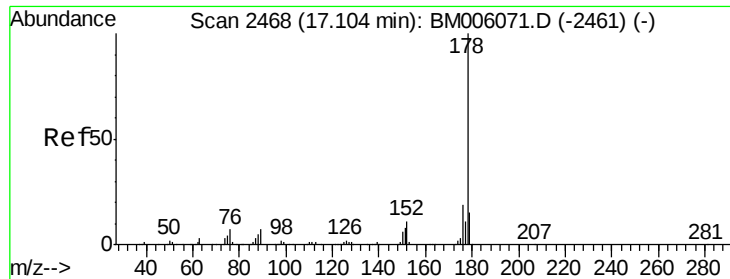
Instrument :  
BNA\_M  
ClientSampleId :  
D9Y56

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Quant Time: Jun 28 03:10:00 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM062516.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jun 28 02:11:41 2016  
Response via : Initial Calibration





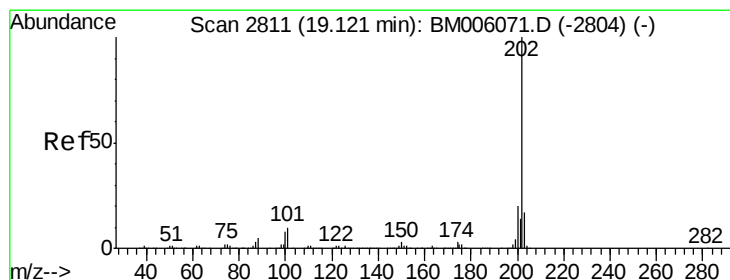
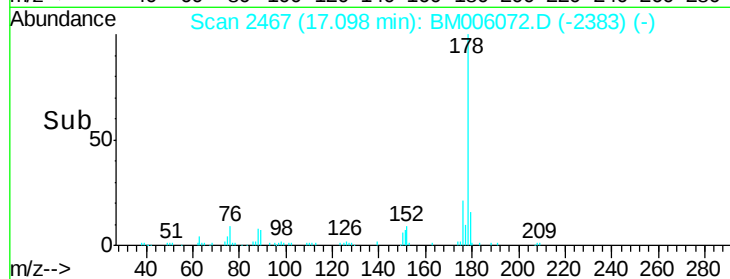
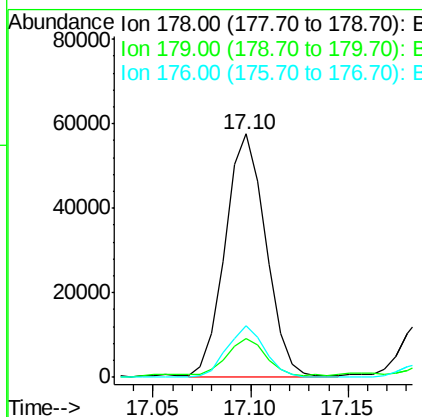
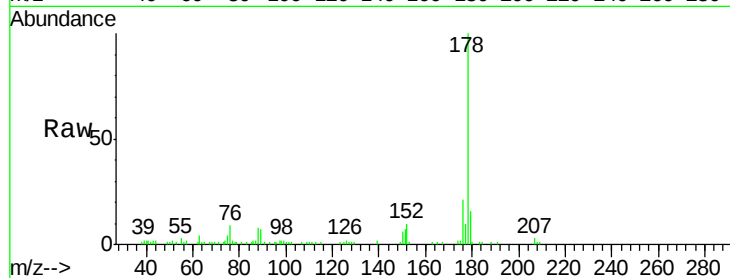
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Phenanthrene  
Concen: 1.12 ng/ul  
RT: 17.10 min Scan# 2467  
Delta R.T. -0.01 min  
Lab File: BM006072.D  
Acq: 27 Jun 2016 16:33

Instrument :  
BNA\_M  
ClientSampleId :  
D9Y56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.1  | 12.2  | 18.2  |
| 176     | 21.2  | 15.3  | 22.9  |

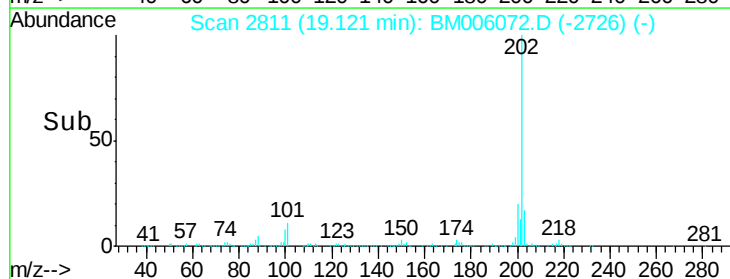
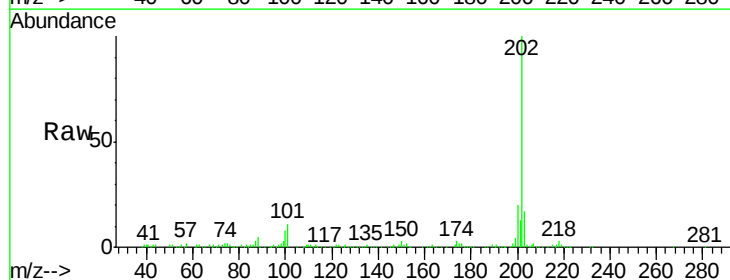
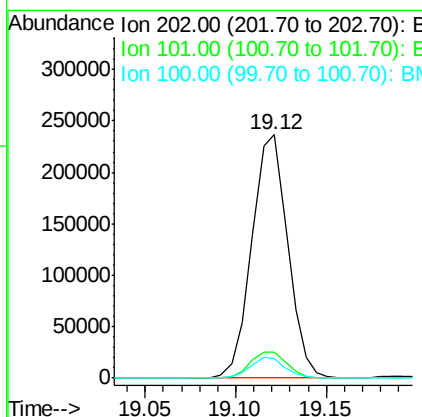
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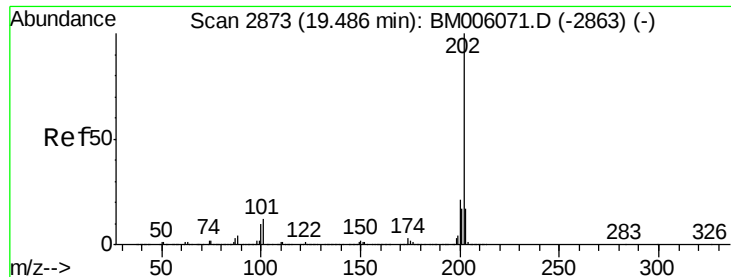
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#28  
Fluoranthene  
Concen: 3.40 ng/ul  
RT: 19.12 min Scan# 2811  
Delta R.T. 0.00 min  
Lab File: BM006072.D  
Acq: 27 Jun 2016 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.9  | 8.5   | 12.7  |
| 100     | 8.3   | 6.5   | 9.7   |





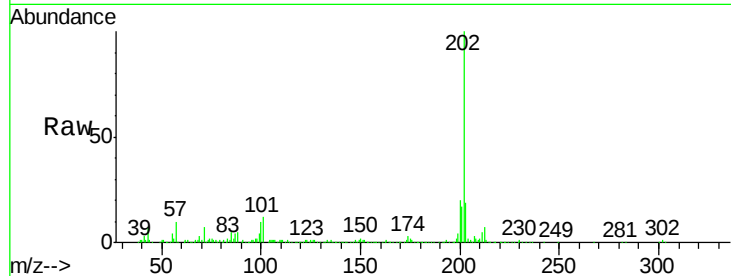
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 Pyrene  
 Concen: 3.15 ng/ul  
 RT: 19.48 min Scan# 2872  
 Delta R.T. -0.01 min  
 Lab File: BM006072.D  
 Acq: 27 Jun 2016 16:33

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y56

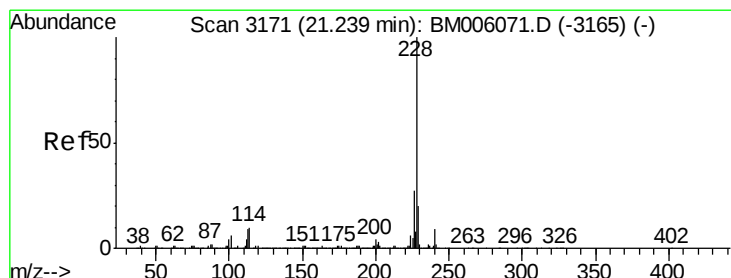
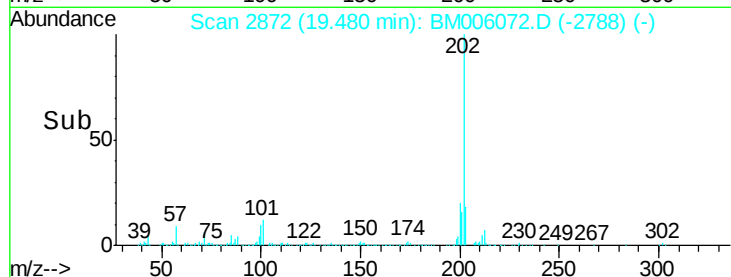
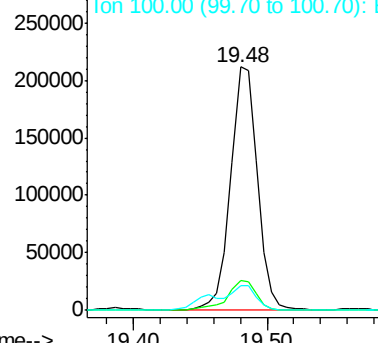
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 12.4  | 11.0       | 16.4       |
| 100     | 10.4  | 8.9        | 13.3       |

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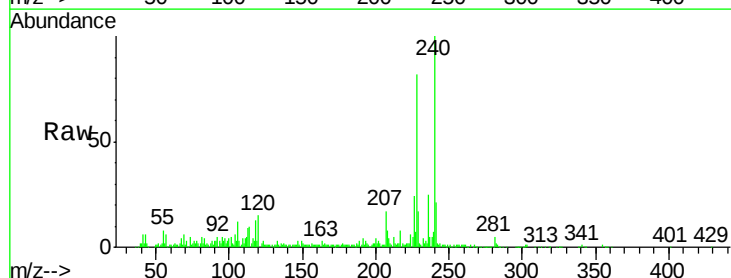


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 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B

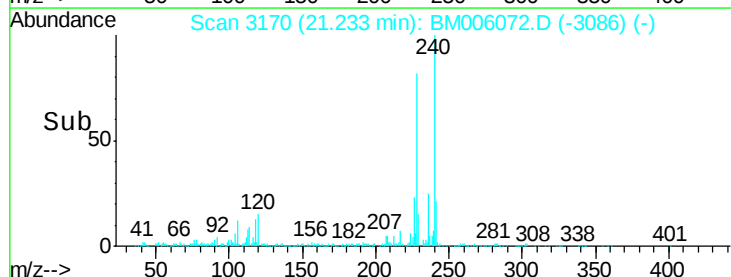
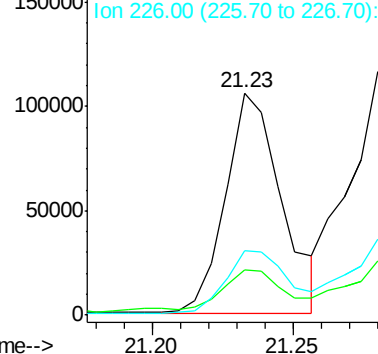


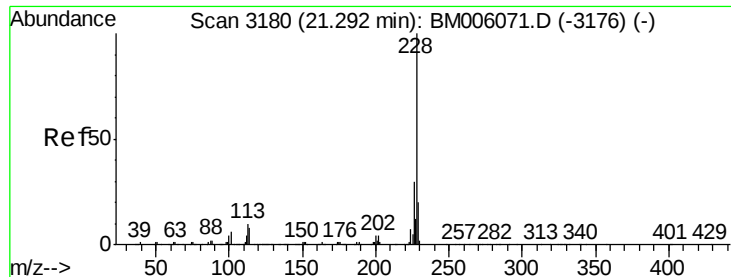
#32  
 Benzo(a)anthracene  
 Concen: 1.52 ng/ul  
 RT: 21.23 min Scan# 3170  
 Delta R.T. -0.01 min  
 Lab File: BM006072.D  
 Acq: 27 Jun 2016 16:33

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 20.1  | 15.6       | 23.4       |
| 226     | 29.2  | 21.6       | 32.4       |



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





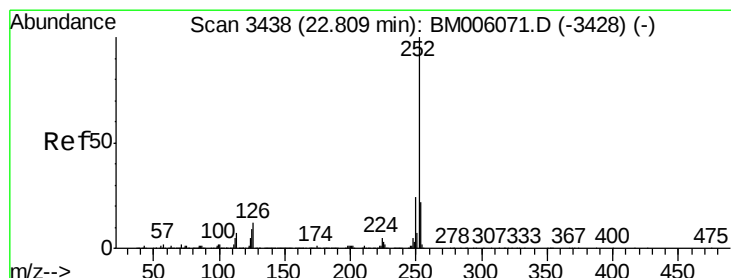
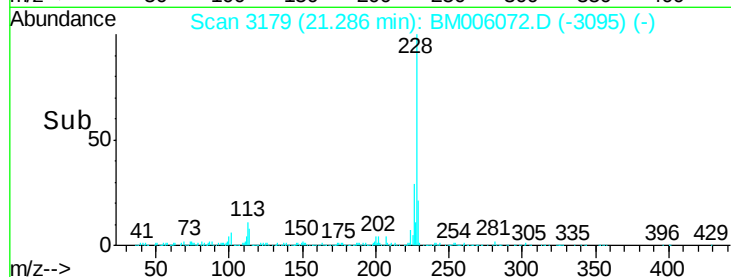
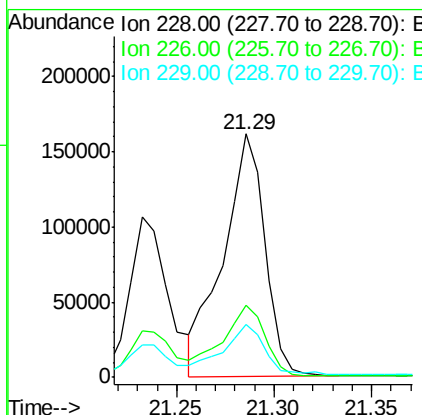
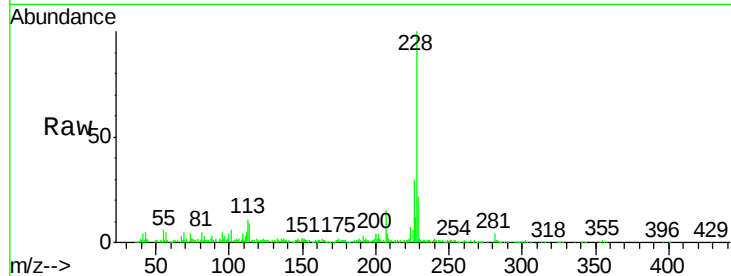
#33  
Chrysene  
Concen: 2.72 ng/ul  
RT: 21.29 min Scan# 3179  
Delta R.T. -0.01 min  
Lab File: BM006072.D  
Acq: 27 Jun 2016 16:33

Instrument :  
BNA\_M  
ClientSampleId :  
D9Y56

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 239061 |       |       |
| 226     | 29.7  | 23.8   | 35.6  |       |
| 229     | 21.9  | 15.8   | 23.6  |       |

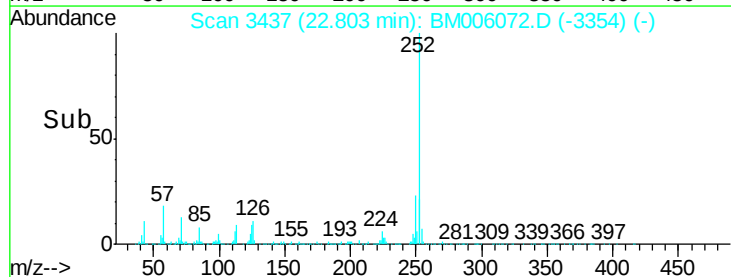
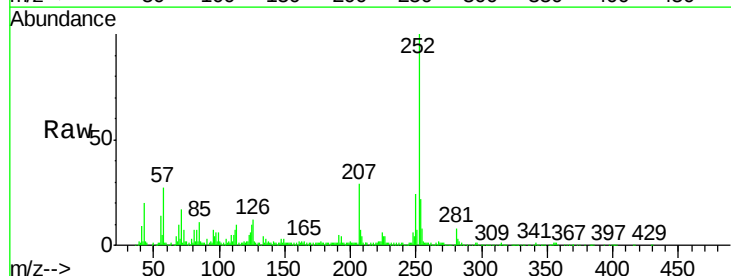
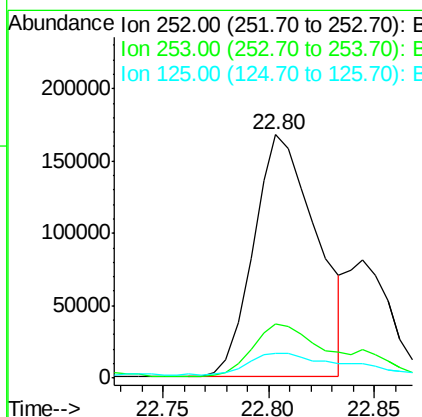
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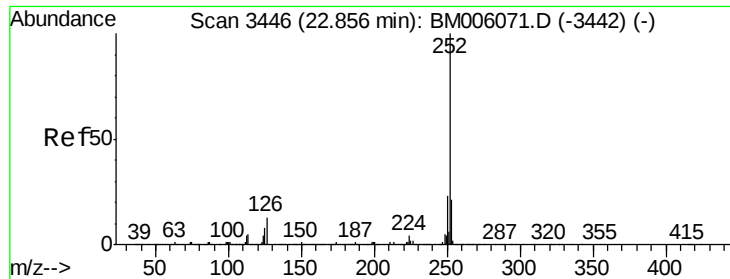
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#35  
Benzo(b)fluoranthene  
Concen: 3.87 ng/ul  
RT: 22.80 min Scan# 3437  
Delta R.T. -0.01 min  
Lab File: BM006072.D  
Acq: 27 Jun 2016 16:33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 347540 |       |       |
| 253     | 22.0  | 17.2   | 25.8  |       |
| 125     | 10.4  | 7.8    | 11.6  |       |





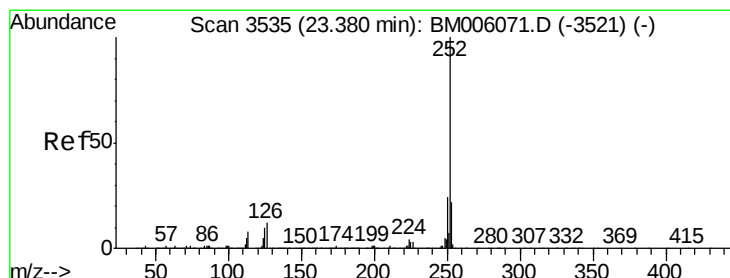
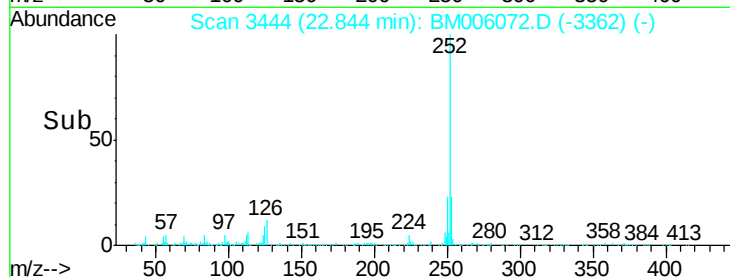
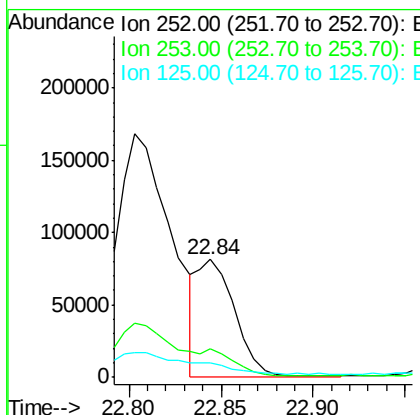
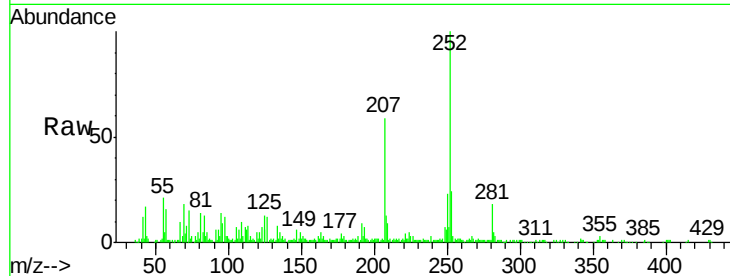
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Benzo(k)fluoranthene  
Concen: 1.41 ng/ul m  
RT: 22.84 min Scan# 3444  
Delta R.T. -0.02 min  
Lab File: BM006072.D  
Acq: 27 Jun 2016 16:33

Instrument :  
BNA\_M  
ClientSampled :  
D9Y56

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 118093 |       |       |
| 253     | 24.1  | 17.6   | 26.4  |       |
| 125     | 12.6  | 8.1    | 12.1# |       |

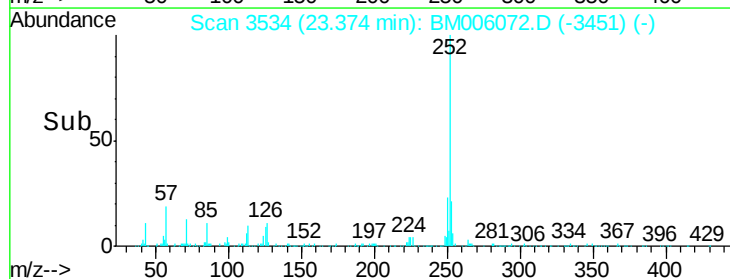
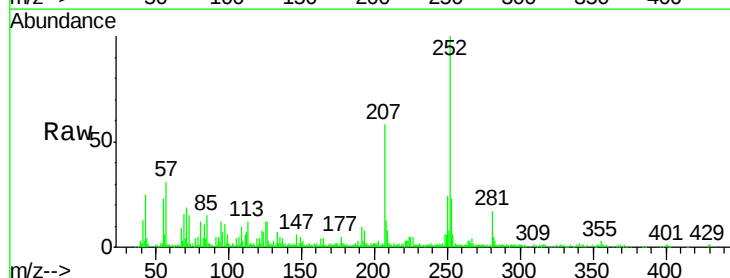
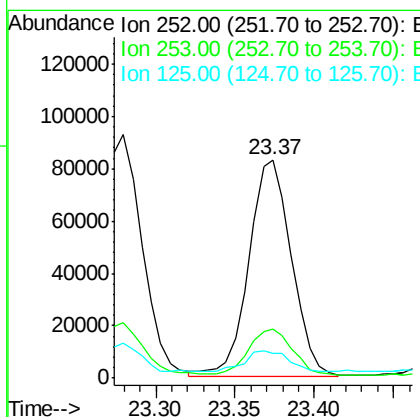
Manual Integrations  
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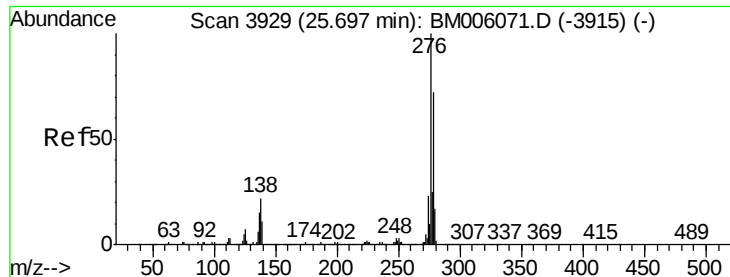
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#38  
Benzo(a)pyrene  
Concen: 1.79 ng/ul  
RT: 23.37 min Scan# 3534  
Delta R.T. -0.01 min  
Lab File: BM006072.D  
Acq: 27 Jun 2016 16:33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 153863 |       |       |
| 253     | 22.7  | 17.8   | 26.6  |       |
| 125     | 11.6  | 8.7    | 13.1  |       |





#39

Indeno(1,2,3-cd)pyrene

Concen: 1.19 ng/ul

RT: 25.69 min Scan# 3927

Delta R.T. -0.04 min

Lab File: BM006072.D

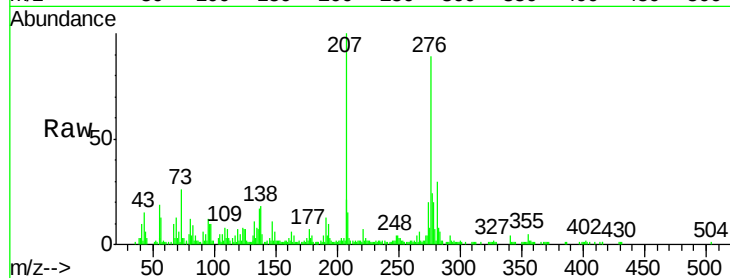
Acq: 27 Jun 2016 16:33

Instrument :

BNA\_M

ClientSampleId :

D9Y56



Tgt Ion: 276 Resp: 121768

Ion Ratio Lower Upper

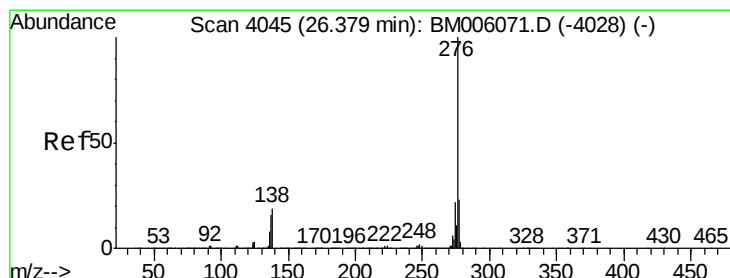
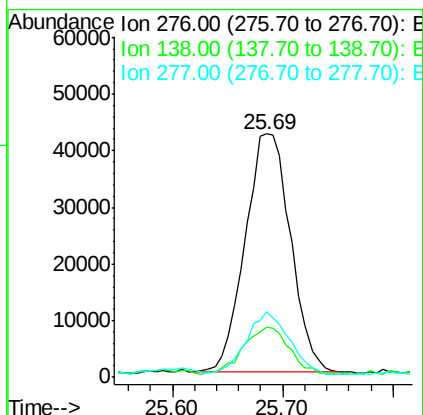
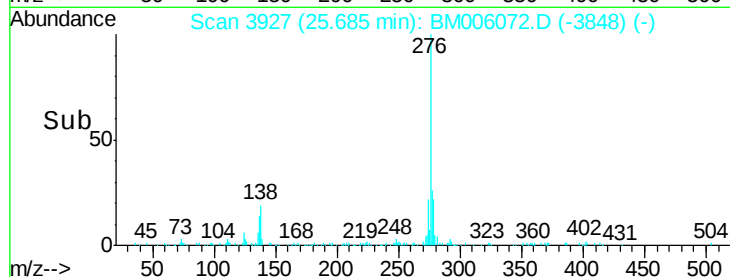
276 100

138 20.4 20.4 30.6

277 26.9 20.6 30.8

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#41

Benzo(g,h,i)perylene

Concen: 1.26 ng/ul

RT: 26.37 min Scan# 4044

Delta R.T. -0.02 min

Lab File: BM006072.D

Acq: 27 Jun 2016 16:33

Tgt Ion: 276 Resp: 112160

Ion Ratio Lower Upper

276 100

138 17.6 16.6 25.0

277 24.0 18.9 28.3

