

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061816\  
 Data File : BM005867.D  
 Acq On : 17 Jun 2016 18:39  
 Operator : UM/SJ  
 Sample : H3536-21  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y31

Manual Integrations  
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Quant Time: Jun 17 19:18:06 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM061716.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jun 17 10:48:37 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 24910    | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.52 | 136  | 102611   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.38 | 164  | 61411    | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.13 | 188  | 137996   | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.32 | 240  | 115448   | 20.00 | ng/ul | 0.01     |
| 34) Perylene-d12          | 23.58 | 264  | 113806   | 20.00 | ng/ul | 0.02     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.18  | 96  | 521    | 2.71  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 6.93  | 99  | 34832  | 16.70 | ng/ul | 0.02 |
| 4) Bis-(2-Chloroethyl)ether-d  | 7.07  | 67  | 18461  | 17.08 | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.27  | 132 | 33626  | 19.33 | ng/ul | 0.01 |
| 6) 4-Methylphenol-d8           | 8.46  | 113 | 27379  | 14.69 | ng/ul | 0.01 |
| 8) Nitrobenzene-d5             | 8.90  | 128 | 15288  | 21.11 | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 9.62  | 143 | 18765  | 21.20 | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.17 | 165 | 35075  | 20.07 | ng/ul | 0.01 |
| 12) 4-Chloroaniline-d4         | 10.69 | 131 | 774    | 0.65  | ng/ul | 0.02 |
| 16) Dimethylphthalate-d6       | 13.79 | 166 | 114992 | 19.79 | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 14.07 | 160 | 138695 | 20.72 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 14.64 | 143 | 9923   | 14.17 | ng/ul | 0.03 |
| 21) Fluorene-d10               | 15.37 | 176 | 101386 | 20.48 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.53 | 200 | 4974   | 5.34  | ng/ul | 0.02 |
| 26) Anthracene-d10             | 17.23 | 188 | 153314 | 21.28 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.52 | 212 | 150703 | 27.54 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 23.43 | 264 | 120202 | 21.13 | ng/ul | 0.02 |

## Target Compounds

|                            |       |     |        |      | Qvalue    |
|----------------------------|-------|-----|--------|------|-----------|
| 25) Phenanthrene           | 17.17 | 178 | 15053m | 1.83 | ng/ul     |
| 28) Fluoranthene           | 19.19 | 202 | 37570  | 3.64 | ng/ul 99  |
| 31) Pyrene                 | 19.55 | 202 | 35048  | 5.14 | ng/ul 99  |
| 32) Benzo(a)anthracene     | 21.30 | 228 | 19728  | 2.74 | ng/ul# 91 |
| 33) Chrysene               | 21.35 | 228 | 22346  | 3.22 | ng/ul# 86 |
| 35) Benzo(b)fluoranthene   | 22.90 | 252 | 34150  | 4.82 | ng/ul# 77 |
| 36) Benzo(k)fluoranthene   | 22.93 | 252 | 9102m  | 1.33 | ng/ul     |
| 38) Benzo(a)pyrene         | 23.48 | 252 | 20513  | 2.95 | ng/ul# 68 |
| 39) Indeno(1,2,3-cd)pyrene | 25.89 | 276 | 17813  | 2.10 | ng/ul# 78 |
| 41) Benzo(g,h,i)perylene   | 26.60 | 276 | 20289m | 2.80 | ng/ul     |

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

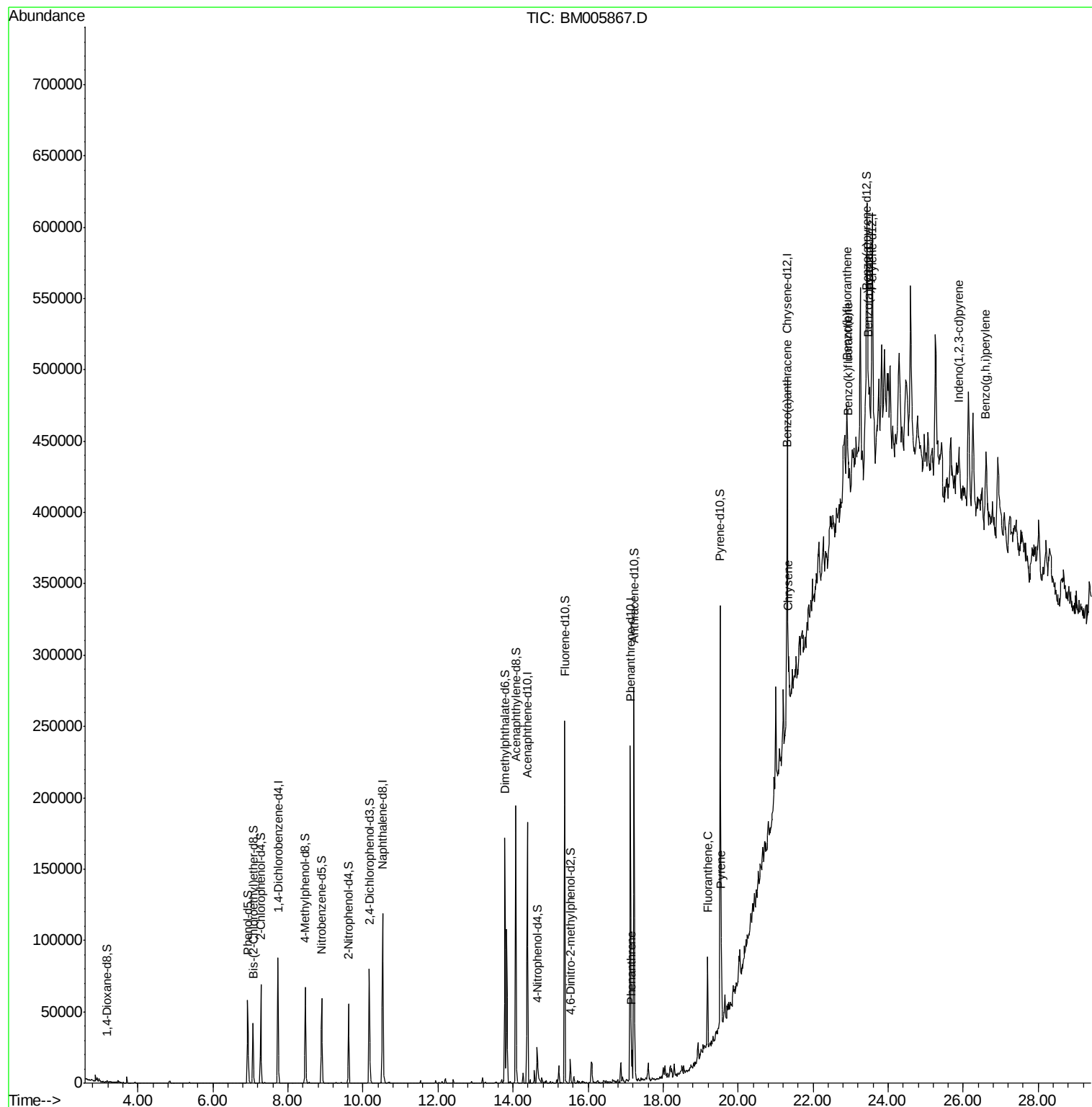
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Data File : BM005867.D  
Acq On : 17 Jun 2016 18:39  
Operator : UM/SJ  
Sample : H3536-21  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

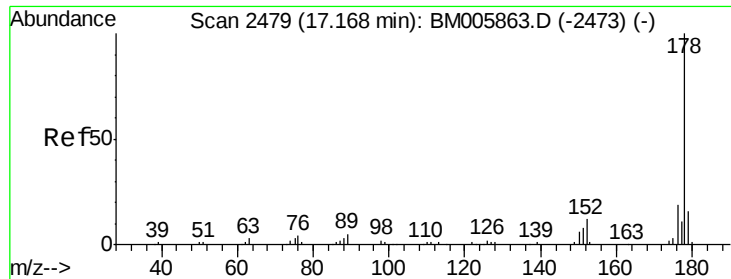
Instrument :  
BNA\_M  
ClientSampleId :  
D9Y31

Quant Time: Jun 17 19:18:06 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM061716.M  
Quant Title : SVOA CALIBRATION  
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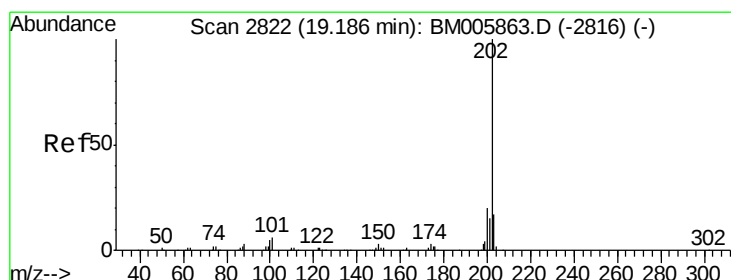
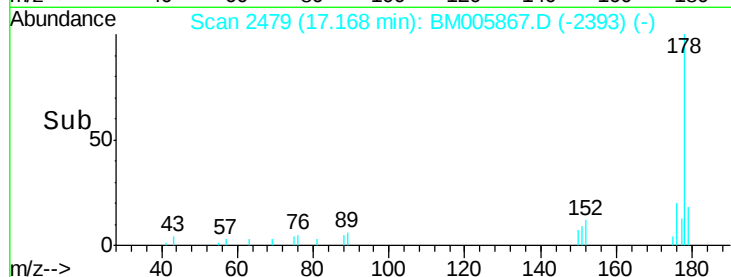
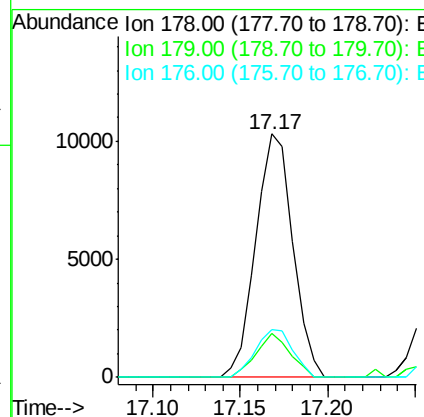
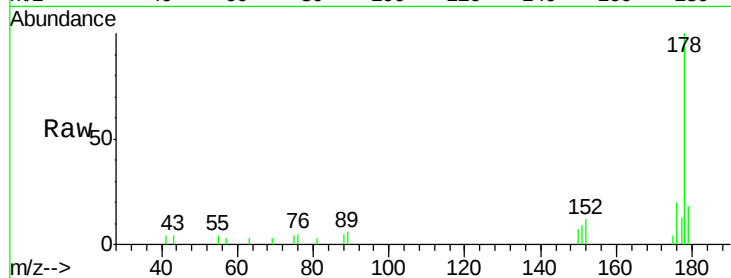
#25  
Phenanthrene  
Concen: 1.83 ng/ul m  
RT: 17.17 min Scan# 2479  
Delta R.T. 0.01 min  
Lab File: BM005867.D  
Acq: 17 Jun 2016 18:39

Instrument :  
BNA\_M  
ClientSampleId :  
D9Y31

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 15053 |       |       |
| 179     | 18.1  | 12.0  | 18.0  | #     |
| 176     | 19.7  | 14.9  | 22.3  |       |

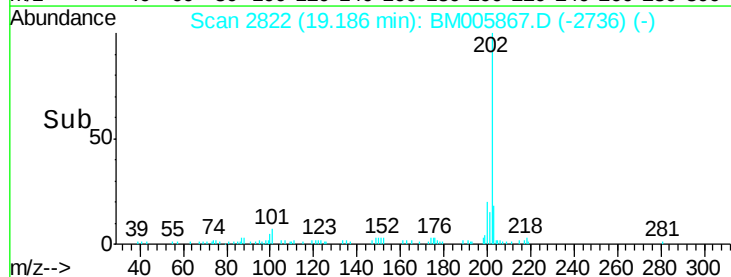
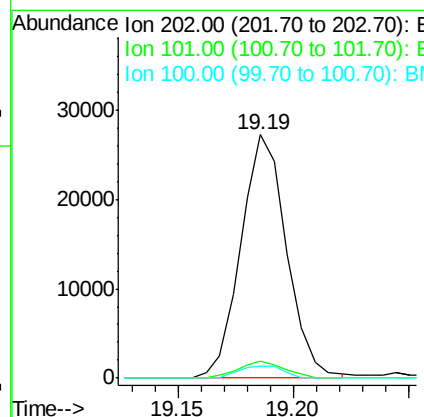
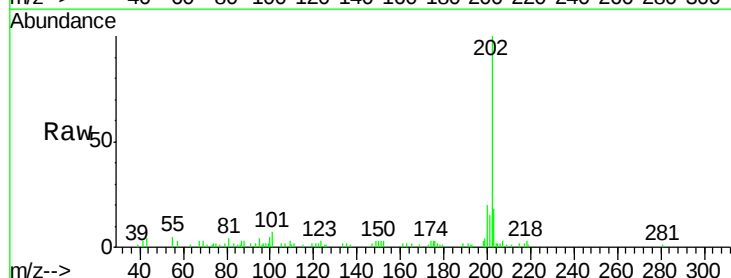
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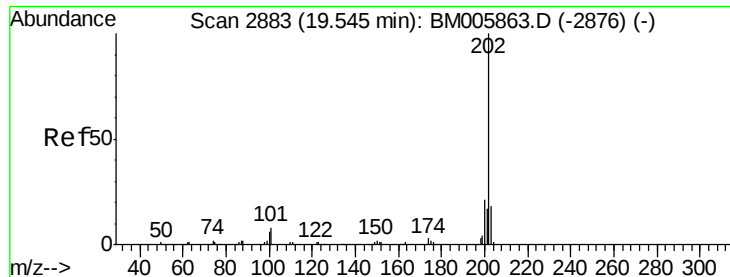
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#28  
Fluoranthene  
Concen: 3.64 ng/ul  
RT: 19.19 min Scan# 2822  
Delta R.T. 0.01 min  
Lab File: BM005867.D  
Acq: 17 Jun 2016 18:39

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 37570 |       |       |
| 101     | 6.9   | 6.1   | 9.1   |       |
| 100     | 5.2   | 4.2   | 6.2   |       |





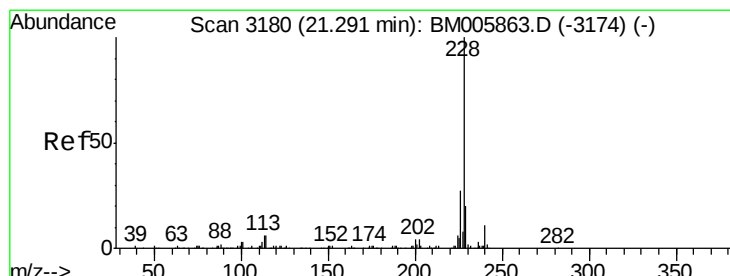
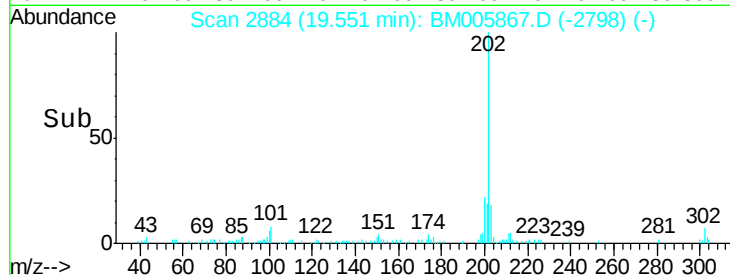
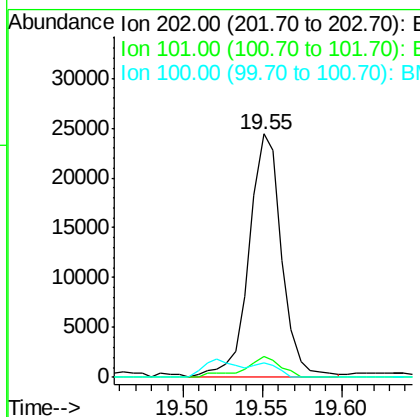
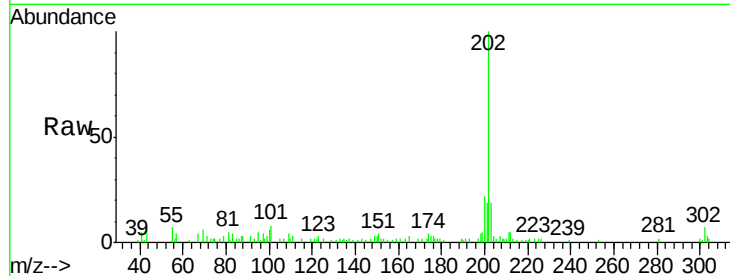
#31  
 Pyrene  
 Concen: 5.14 ng/ul  
 RT: 19.55 min Scan# 2884  
 Delta R.T. 0.01 min  
 Lab File: BM005867.D  
 Acq: 17 Jun 2016 18:39

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y31

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 8.5   | 6.5        | 9.7        |
| 100     | 6.2   | 5.4        | 8.2        |

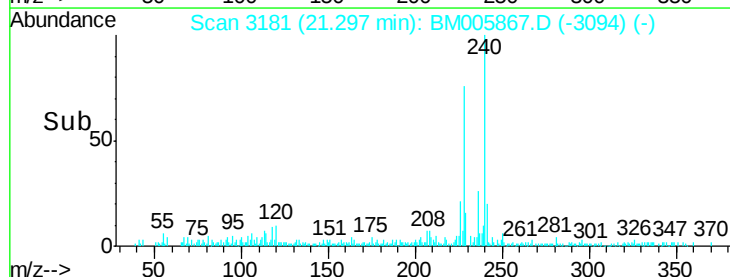
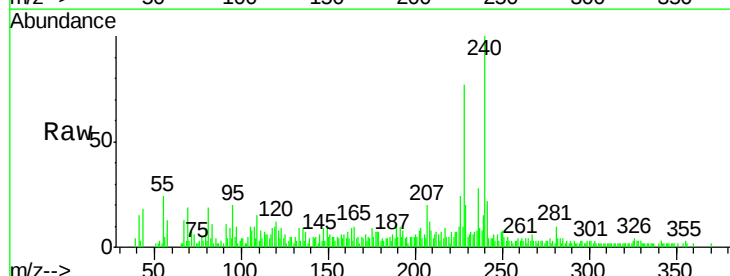
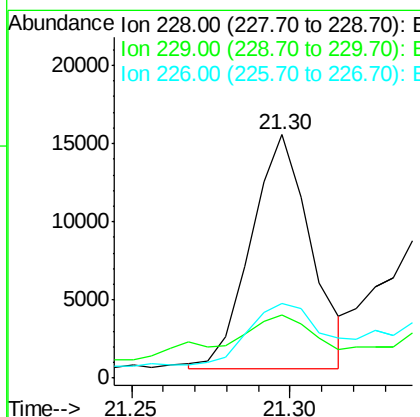
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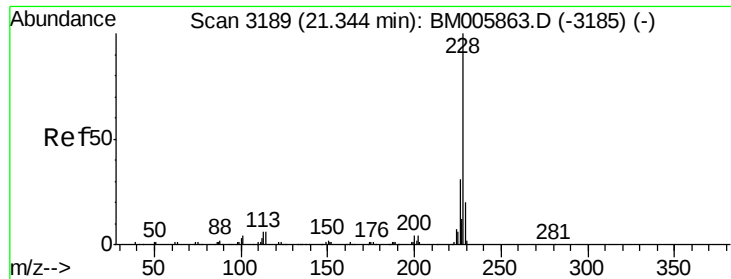
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#32  
 Benzo(a)anthracene  
 Concen: 2.74 ng/ul  
 RT: 21.30 min Scan# 3181  
 Delta R.T. 0.01 min  
 Lab File: BM005867.D  
 Acq: 17 Jun 2016 18:39

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 25.8  | 15.8       | 23.6#      |
| 226     | 30.6  | 21.8       | 32.6       |





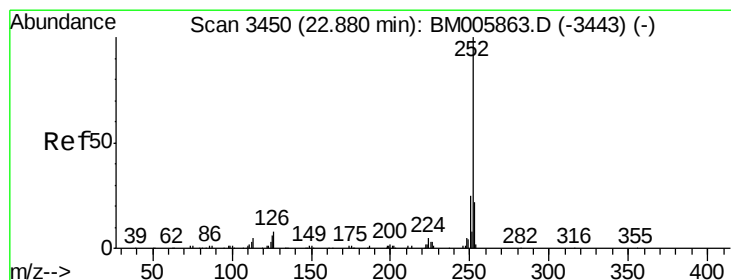
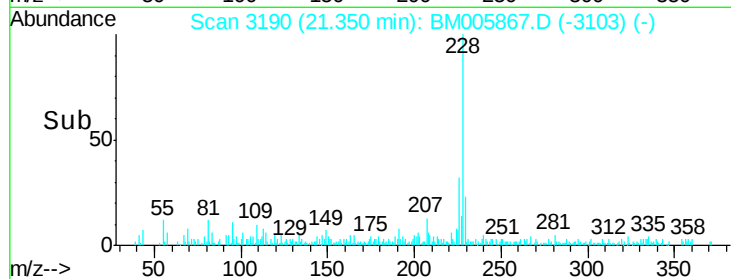
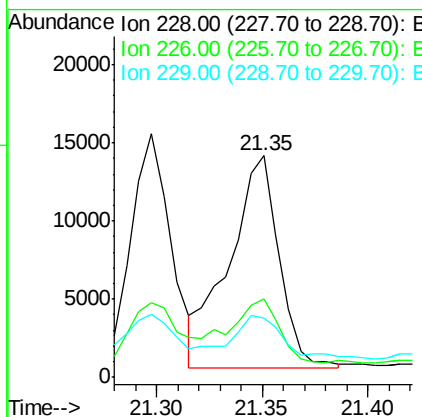
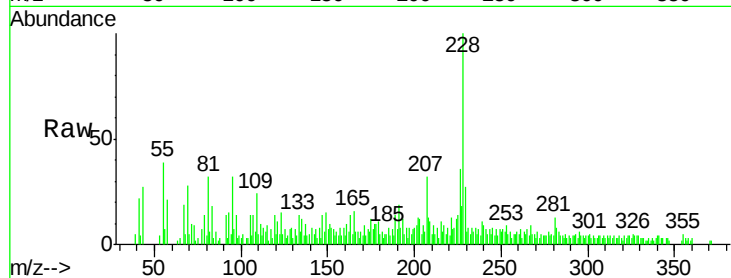
#33  
Chrysene  
Concen: 3.22 ng/ul  
RT: 21.35 min Scan# 3190  
Delta R.T. 0.01 min  
Lab File: BM005867.D  
Acq: 17 Jun 2016 18:39

Instrument :  
BNA\_M  
ClientSampled :  
D9Y31

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 226     | 35.6  | 23.5       | 35.3#      |
| 229     | 26.7  | 15.4       | 23.0#      |

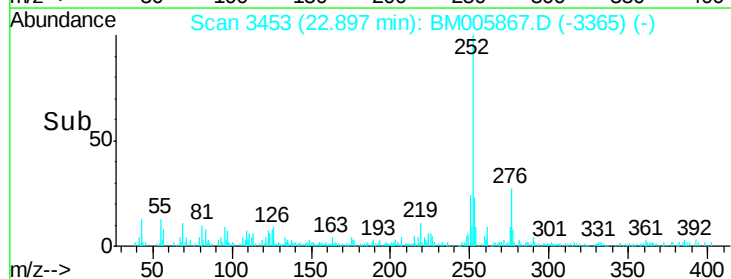
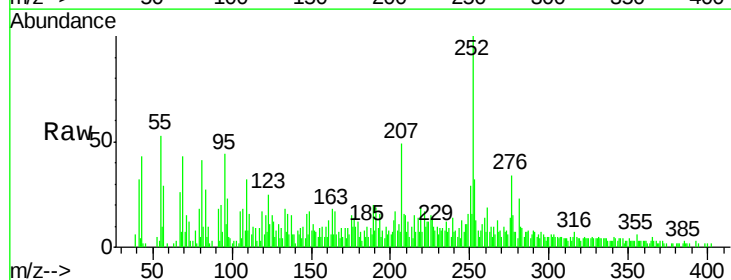
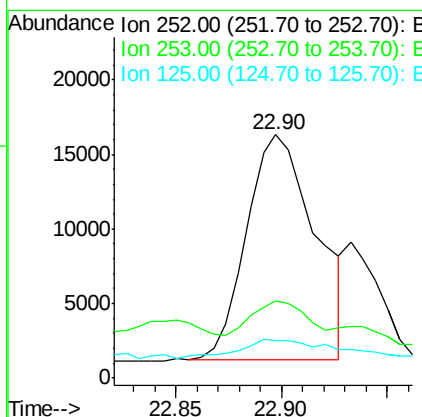
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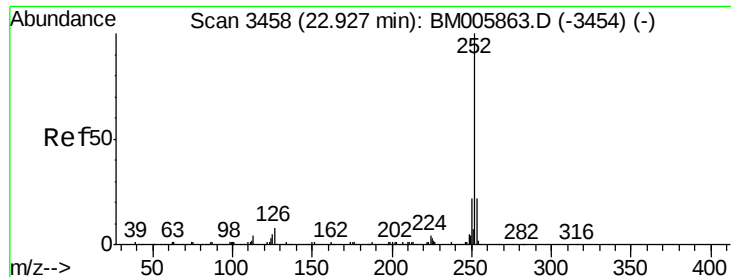
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#35  
Benzo(b)fluoranthene  
Concen: 4.82 ng/ul  
RT: 22.90 min Scan# 3453  
Delta R.T. 0.02 min  
Lab File: BM005867.D  
Acq: 17 Jun 2016 18:39

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 31.5  | 17.1       | 25.7#      |
| 125     | 15.2  | 4.9        | 7.3#       |





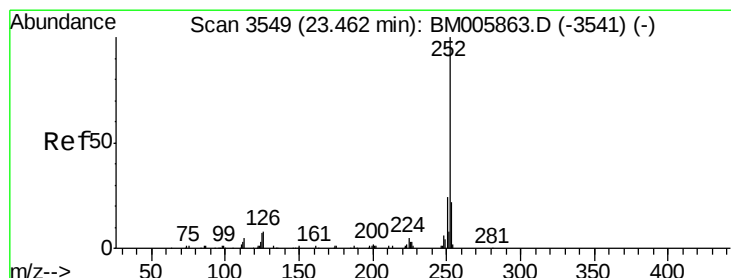
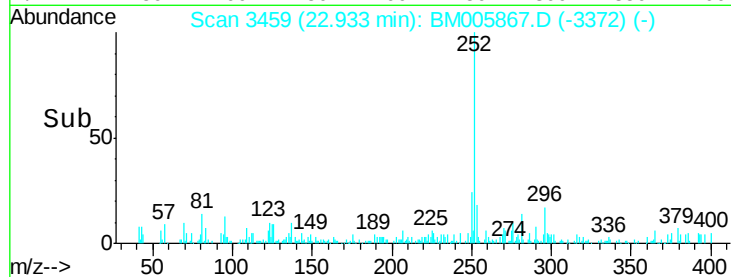
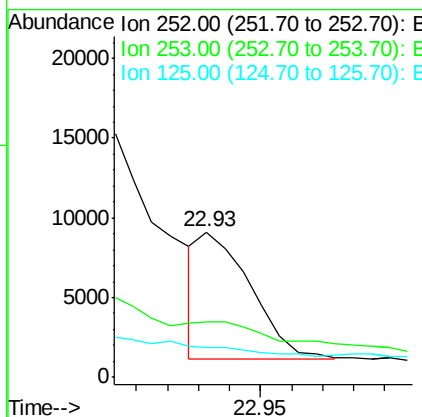
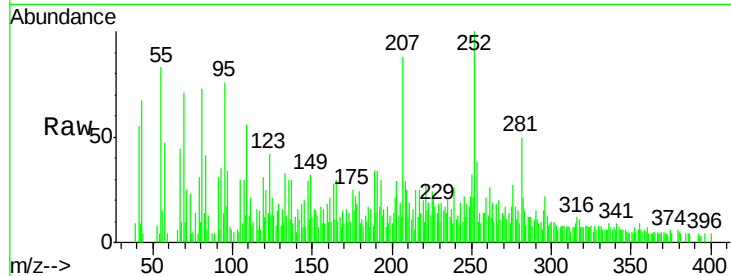
#36  
Benzo(k)fluoranthene  
Concen: 1.33 ng/ul m  
RT: 22.93 min Scan# 3459  
Delta R.T. 0.01 min  
Lab File: BM005867.D  
Acq: 17 Jun 2016 18:39

Instrument :  
BNA\_M  
ClientSampleId :  
D9Y31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 38.2  | 17.5  | 26.3# |
| 125     | 20.8  | 4.8   | 7.2#  |

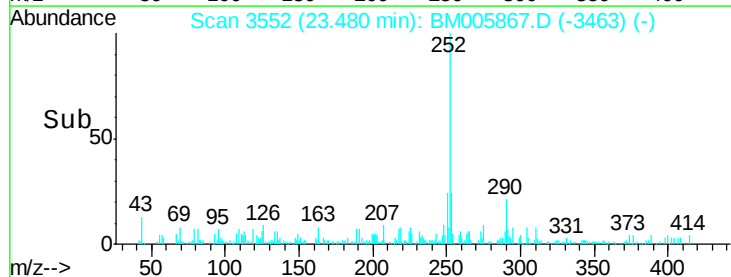
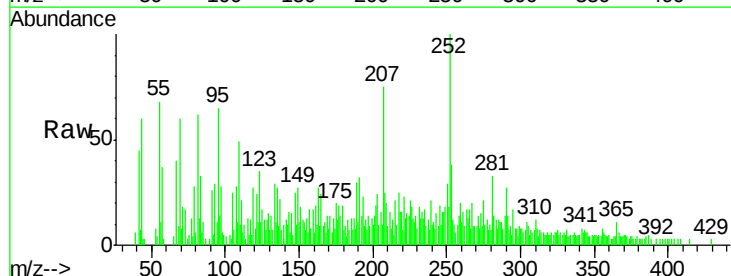
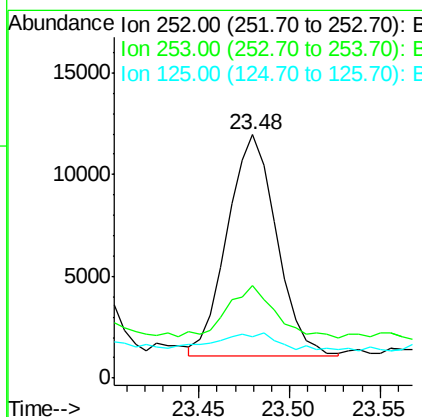
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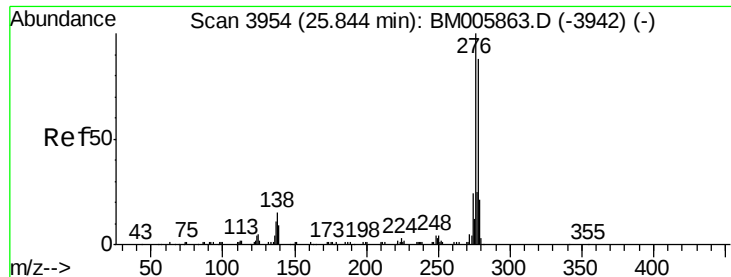
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#38  
Benzo(a)pyrene  
Concen: 2.95 ng/ul  
RT: 23.48 min Scan# 3552  
Delta R.T. 0.02 min  
Lab File: BM005867.D  
Acq: 17 Jun 2016 18:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 38.0  | 18.0  | 27.0# |
| 125     | 17.0  | 5.1   | 7.7#  |





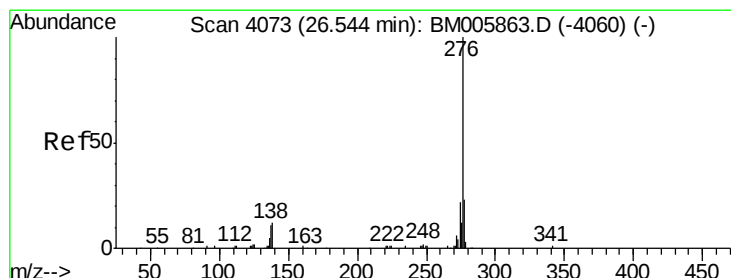
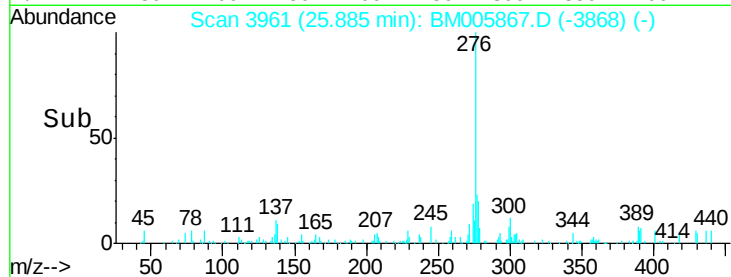
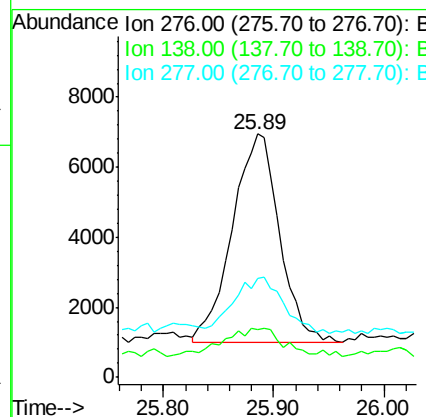
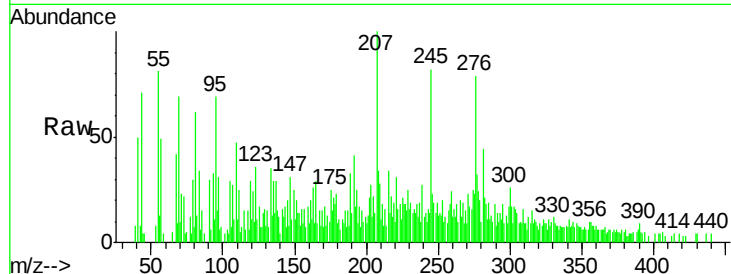
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 Indeno(1,2,3-cd)pyrene  
 Concen: 2.10 ng/ul  
 RT: 25.89 min Scan# 3961  
 Delta R.T. 0.05 min  
 Lab File: BM005867.D  
 Acq: 17 Jun 2016 18:39

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.5  | 11.9  | 17.9# |
| 277     | 40.8  | 21.0  | 31.6# |

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#41  
 Benzo(g,h,i)perylene  
 Concen: 2.80 ng/ul m  
 RT: 26.60 min Scan# 4082  
 Delta R.T. 0.06 min  
 Lab File: BM005867.D  
 Acq: 17 Jun 2016 18:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.3  | 10.6  | 15.8# |
| 277     | 39.4  | 19.6  | 29.4# |

