

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM060616\  
 Data File : BM005684.D  
 Acq On : 06 Jun 2016 23:57  
 Operator : UM/SJ  
 Sample : H3412-16 2X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9XT5

Manual Integrations  
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Quant Time: Jun 07 05:15:39 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM060216.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jun 07 04:25:20 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.76  | 152  | 132872   | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.55 | 136  | 546846   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.40 | 164  | 235381   | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.14 | 188  | 416978   | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.33 | 240  | 420675   | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.59 | 264  | 436540   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.22  | 96  | 2106   | 0.67  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 6.94  | 99  | 101316 | 8.67  | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 7.09  | 67  | 64953  | 9.14  | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.30  | 132 | 85709  | 8.89  | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.47  | 113 | 67986  | 7.36  | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 8.92  | 128 | 38788  | 9.24  | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 9.64  | 143 | 39781  | 8.85  | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.18 | 165 | 71304  | 8.93  | ng/ul | 0.00 |
| 12) 4-Chloroaniline-d4         | 10.69 | 131 | 25229m | 2.66  | ng/ul | 0.00 |
| 16) Dimethylphthalate-d6       | 13.81 | 166 | 186871 | 10.33 | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 14.09 | 160 | 231148 | 9.82  | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 14.63 | 143 | 18431  | 7.11  | ng/ul | 0.01 |
| 21) Fluorene-d10               | 15.40 | 176 | 152082 | 9.79  | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.53 | 200 | 4750   | 2.42  | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.24 | 188 | 205739 | 10.39 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.54 | 212 | 214329 | 10.14 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 23.44 | 264 | 209173 | 10.41 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |       |      |        | Qvalue |
|----------------------------|-------|-----|-------|------|--------|--------|
| 25) Phenanthrene           | 17.19 | 178 | 48150 | 2.09 | ng/ul  | 98     |
| 28) Fluoranthene           | 19.20 | 202 | 82871 | 3.52 | ng/ul  | 99     |
| 31) Pyrene                 | 19.57 | 202 | 72704 | 2.74 | ng/ul  | 97     |
| 32) Benzo(a)anthracene     | 21.31 | 228 | 41884 | 1.70 | ng/ul  | 93     |
| 33) Chrysene               | 21.36 | 228 | 42799 | 1.84 | ng/ul  | 95     |
| 35) Benzo(b)fluoranthene   | 22.91 | 252 | 64344 | 2.44 | ng/ul# | 82     |
| 38) Benzo(a)pyrene         | 23.49 | 252 | 40451 | 1.60 | ng/ul# | 77     |
| 39) Indeno(1,2,3-cd)pyrene | 25.88 | 276 | 36278 | 1.21 | ng/ul# | 78     |
| 41) Benzo(g,h,i)perylene   | 26.59 | 276 | 36946 | 1.47 | ng/ul# | 77     |

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

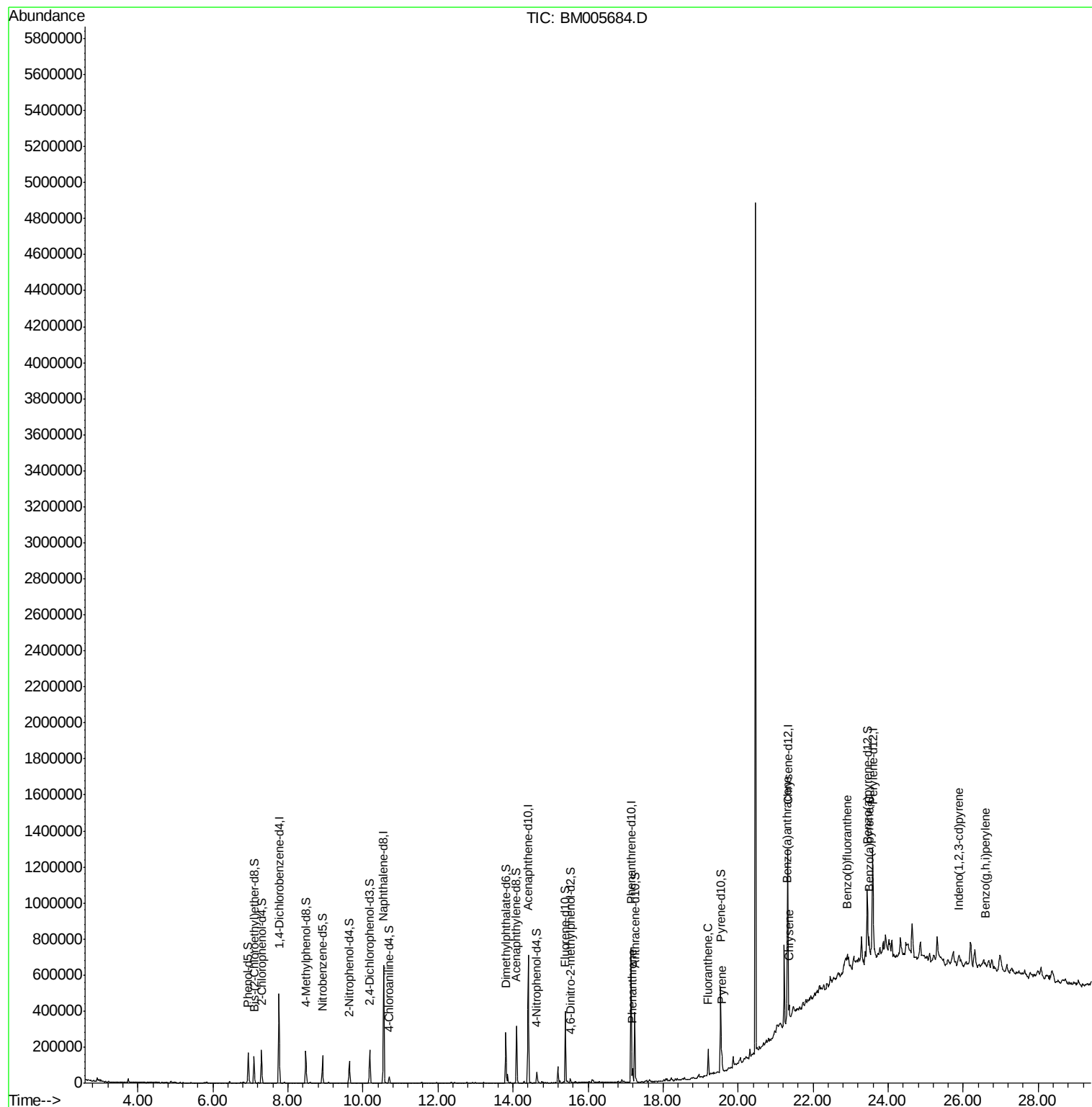
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM060616\  
Data File : BM005684.D  
Acq On : 06 Jun 2016 23:57  
Operator : UM/SJ  
Sample : H3412-16 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

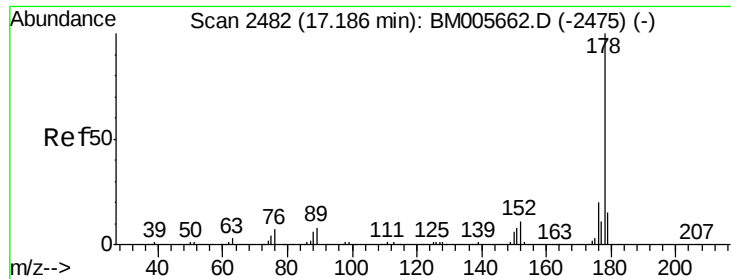
Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Time: Jun 07 05:15:39 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM060216.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jun 07 04:25:20 2016  
Response via : Initial Calibration





#25

Phenanthrene

Concen: 2.09 ng/ul

RT: 17.19 min Scan# 2482

Delta R.T. 0.00 min

Lab File: BM005684.D

Acq: 06 Jun 2016 23:57

Instrument :

BNA\_M

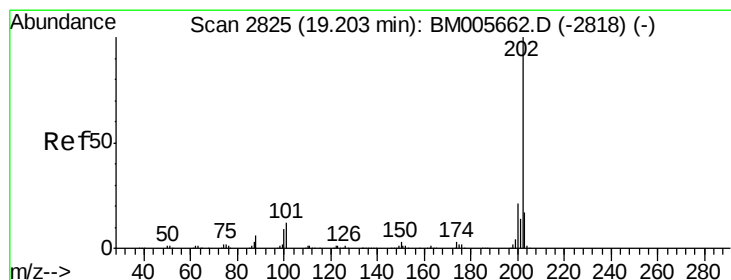
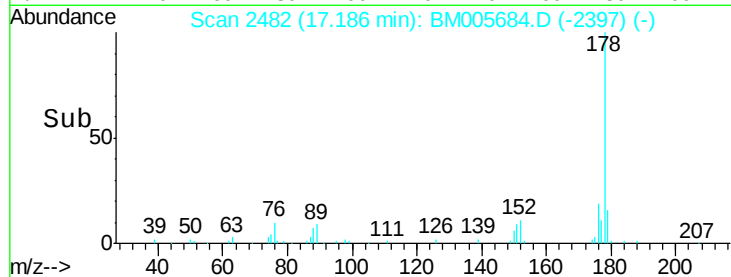
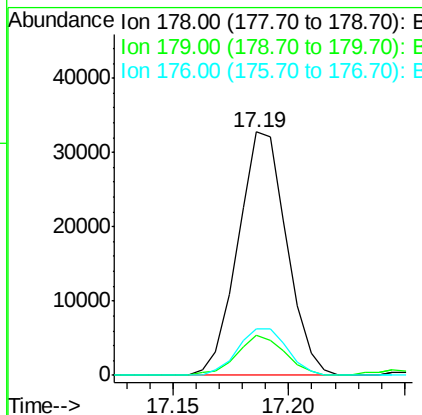
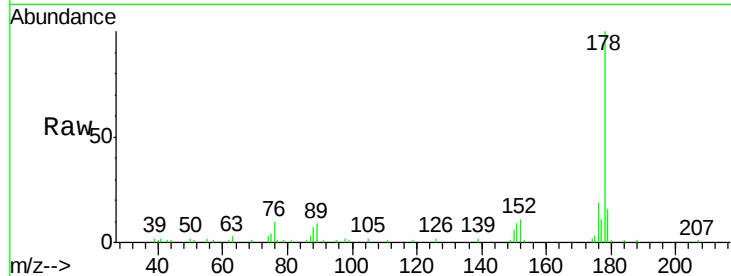
ClientSampleId :

D9XT5

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 178  | Resp: | 48150 |
| Ion Ratio |      | Lower | Upper |
| 178       | 100  |       |       |
| 179       | 16.4 | 11.8  | 17.8  |
| 176       | 18.9 | 14.8  | 22.2  |

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#28

Fluoranthene

Concen: 3.52 ng/ul

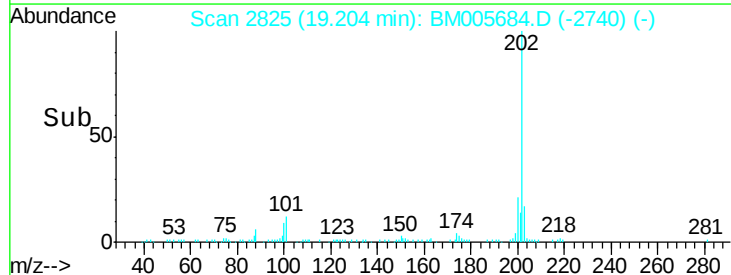
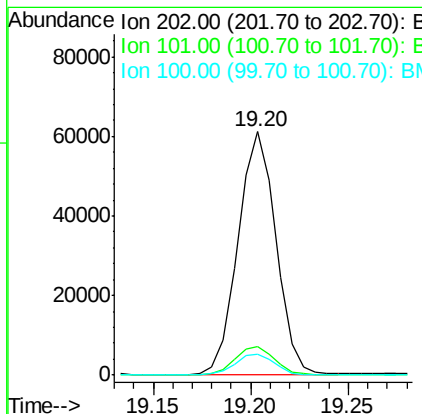
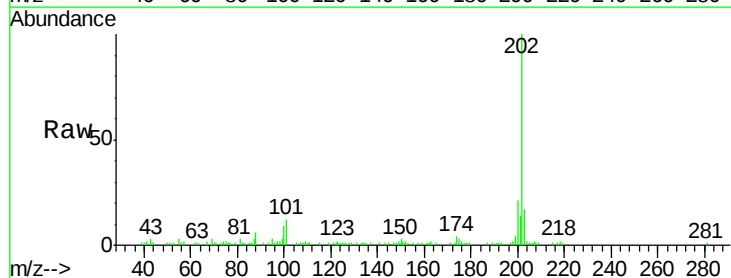
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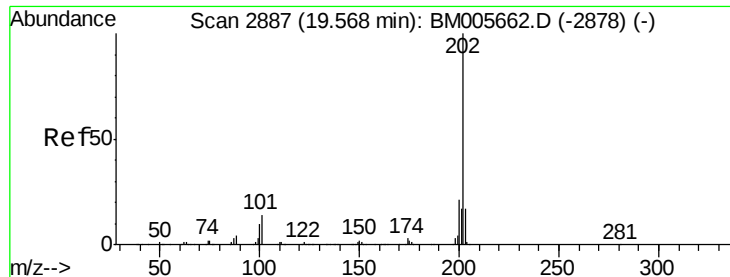
Delta R.T. 0.00 min

Lab File: BM005684.D

Acq: 06 Jun 2016 23:57

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 202  | Resp: | 82871 |
| Ion Ratio |      | Lower | Upper |
| 202       | 100  |       |       |
| 101       | 11.9 | 8.9   | 13.3  |
| 100       | 8.6  | 7.0   | 10.4  |





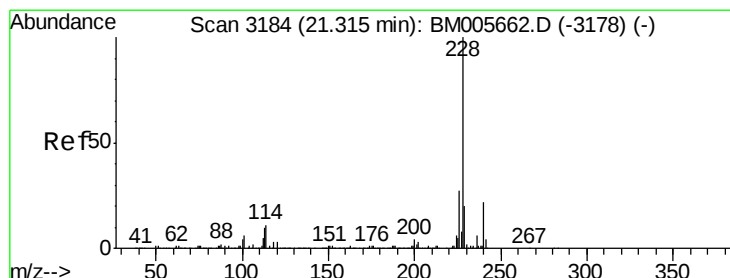
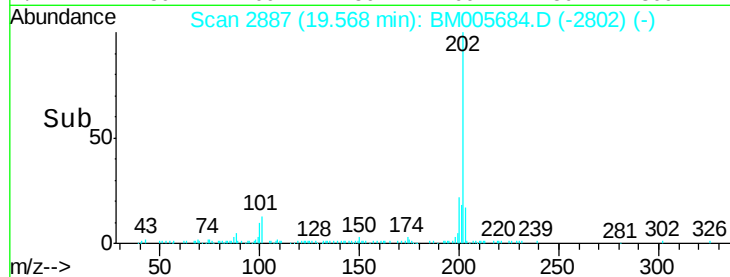
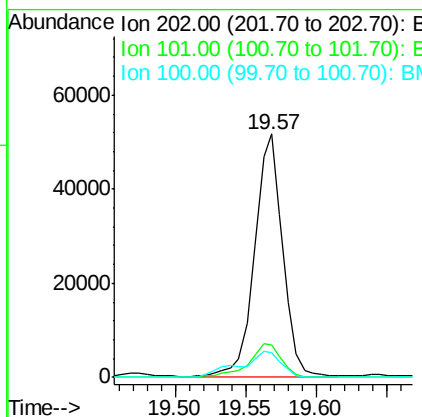
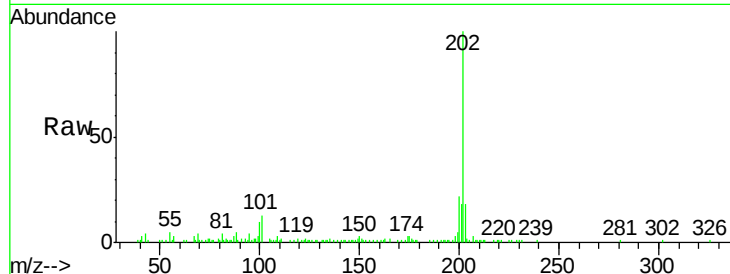
#31  
 Pyrene  
 Concen: 2.74 ng/ul  
 RT: 19.57 min Scan# 2887  
 Delta R.T. 0.00 min  
 Lab File: BM005684.D  
 Acq: 06 Jun 2016 23:57

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9XT5

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 72704 |       |       |
| 101     | 13.2  | 9.8   | 14.8  |       |
| 100     | 10.2  | 9.3   | 13.9  |       |

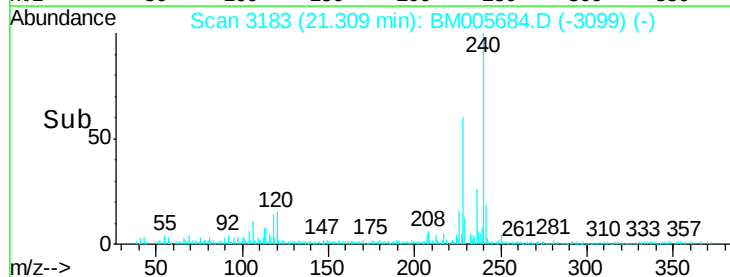
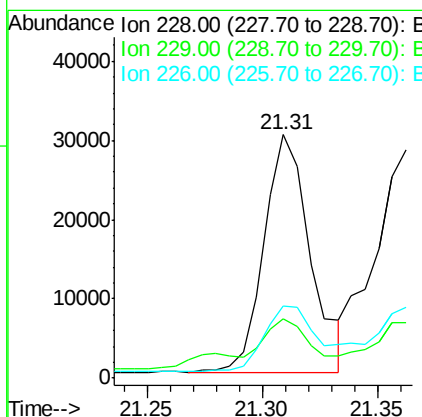
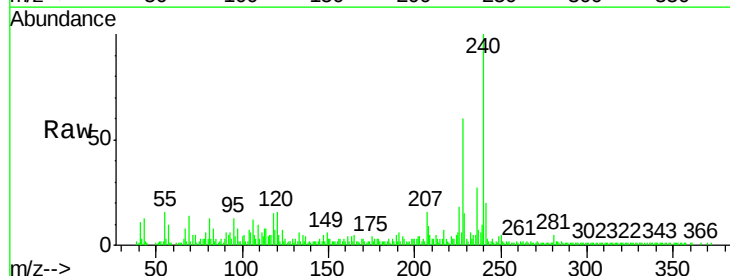
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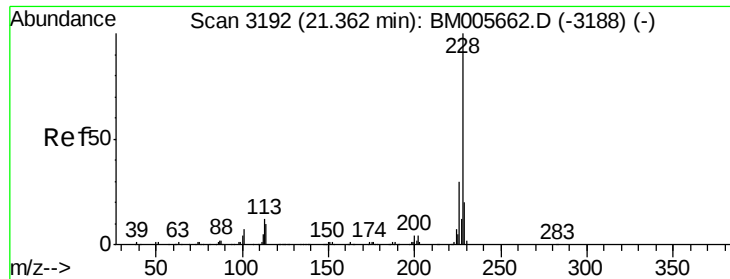
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#32  
 Benzo(a)anthracene  
 Concen: 1.70 ng/ul  
 RT: 21.31 min Scan# 3183  
 Delta R.T. -0.01 min  
 Lab File: BM005684.D  
 Acq: 06 Jun 2016 23:57

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 41884 |       |       |
| 229     | 24.5  | 16.6  | 25.0  |       |
| 226     | 29.6  | 21.0  | 31.4  |       |





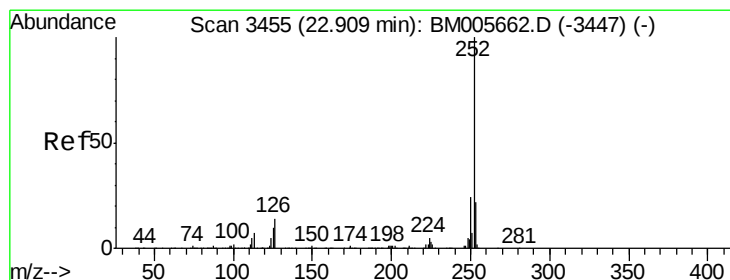
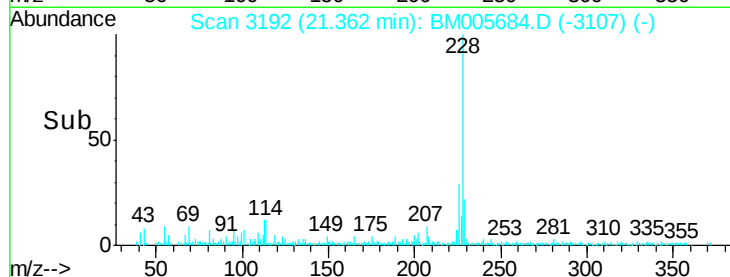
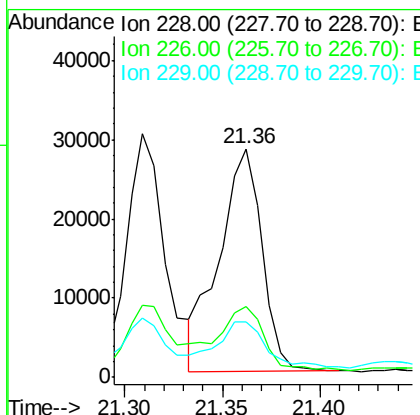
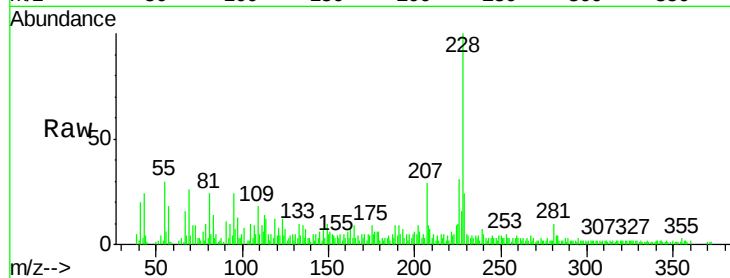
#33  
Chrysene  
Concen: 1.84 ng/ul  
RT: 21.36 min Scan# 3192  
Delta R.T. 0.00 min  
Lab File: BM005684.D  
Acq: 06 Jun 2016 23:57

Instrument :  
BNA\_M  
ClientSampleId :  
D9XT5

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.8  | 23.4  | 35.2  |
| 229     | 24.0  | 16.2  | 24.2  |

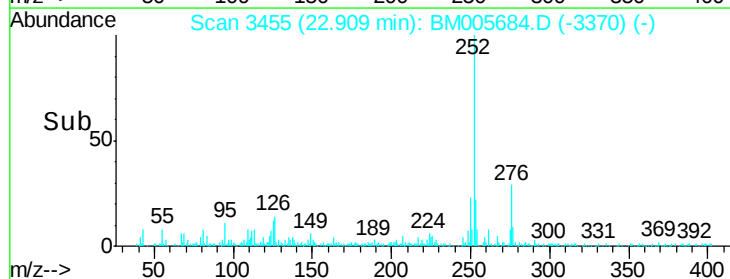
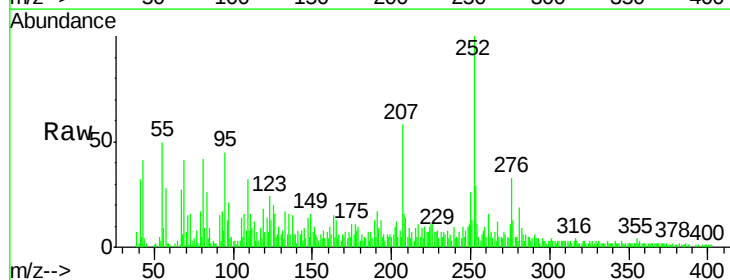
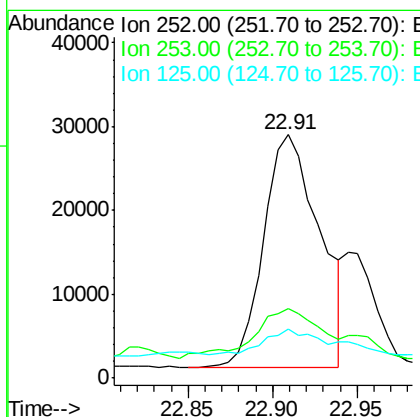
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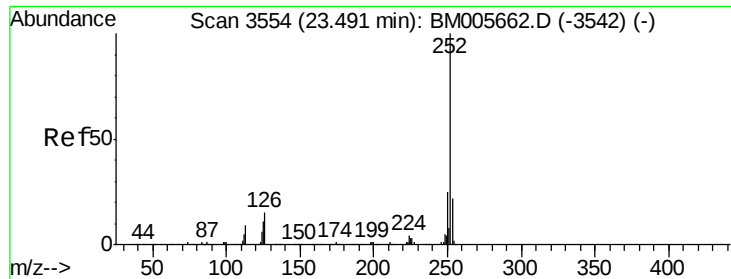
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#35  
Benzo(b)fluoranthene  
Concen: 2.44 ng/ul  
RT: 22.91 min Scan# 3455  
Delta R.T. 0.00 min  
Lab File: BM005684.D  
Acq: 06 Jun 2016 23:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.8  | 18.1  | 27.1# |
| 125     | 20.0  | 7.6   | 11.4# |





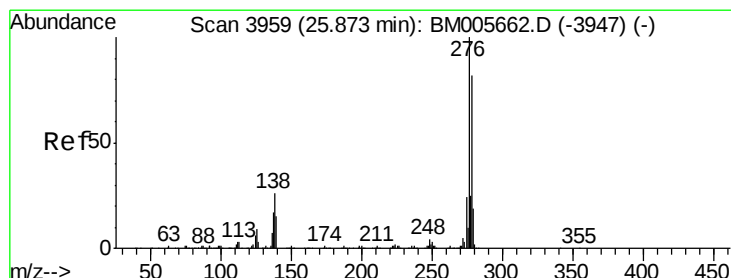
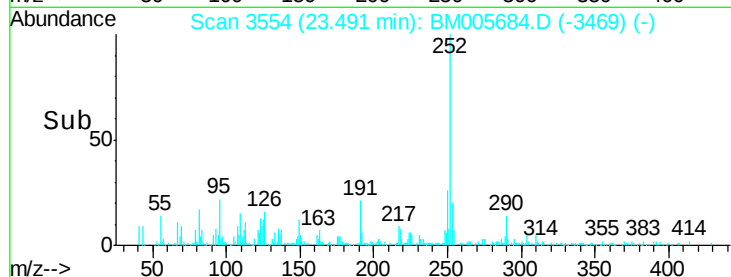
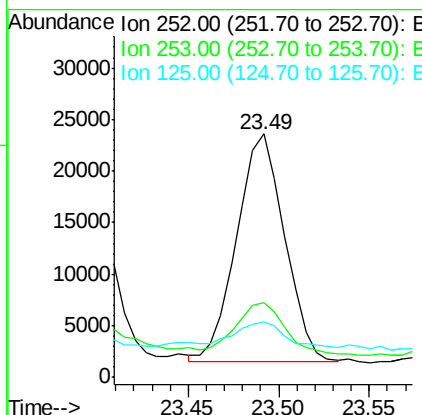
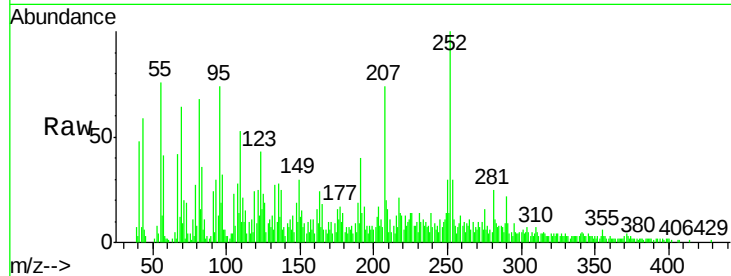
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Benzo(a)pyrene  
Concen: 1.60 ng/ul  
RT: 23.49 min Scan# 3554  
Delta R.T. 0.00 min  
Lab File: BM005684.D  
Acq: 06 Jun 2016 23:57

Instrument :  
BNA\_M  
ClientSampleId :  
D9XT5

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.4  | 17.4  | 26.0# |
| 125     | 22.8  | 8.2   | 12.2# |

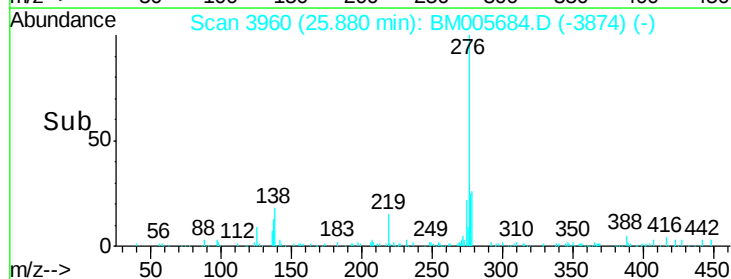
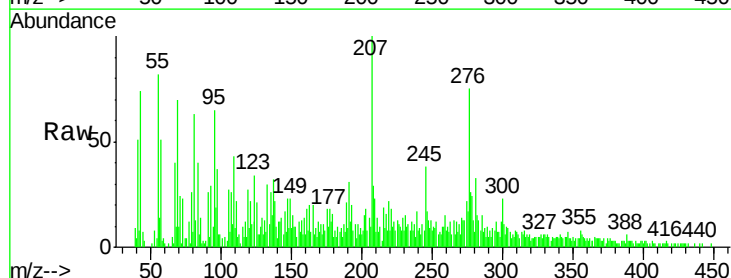
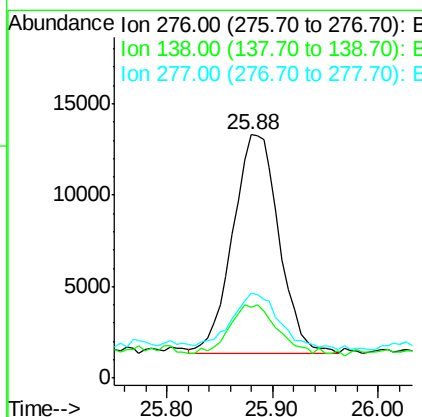
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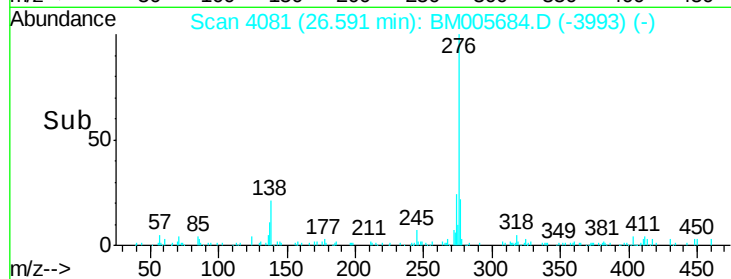
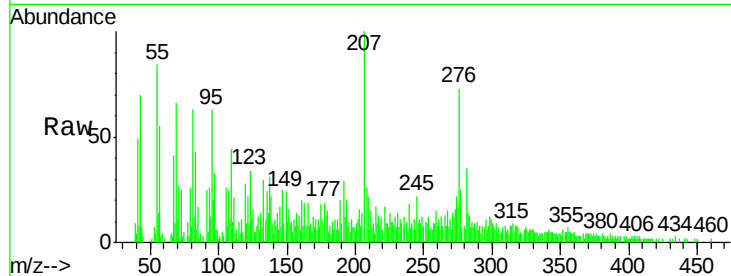
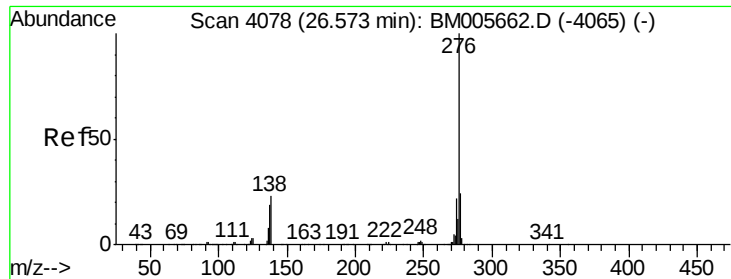
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6/7/2016 7:14:05 PM



#39  
Indeno(1,2,3-cd)pyrene  
Concen: 1.21 ng/ul  
RT: 25.88 min Scan# 3960  
Delta R.T. 0.01 min  
Lab File: BM005684.D  
Acq: 06 Jun 2016 23:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.1  | 15.8  | 23.6# |
| 277     | 35.0  | 19.0  | 28.6# |





#41

Benzo(g,h,i)perylene

Concen: 1.47 ng/ul

RT: 26.59 min Scan# 4081

Delta R.T. 0.02 min

Lab File: BM005684.D

Acq: 06 Jun 2016 23:57

Instrument :

BNA\_M

ClientSampleId :

D9XT5

Tgt Ion: 276 Resp: 36946

Ion Ratio Lower Upper

276 100

138 29.8 13.9 20.9#

277 34.3 19.8 29.6#

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