

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022318\  
 Data File : BM014337.D  
 Acq On : 23 Feb 2018 18:56  
 Operator : SJ/JU  
 Sample : J1631-03 10X  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BE5Y6

Manual Integrations  
 APPROVED

Sohil  
 2/26/2018 4:50:02 PM

Quant Time: Feb 24 00:10:21 2018  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Feb 23 23:12:42 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.53  | 152  | 64496    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.30 | 136  | 272800   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.18 | 164  | 172365   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.94 | 188  | 410277   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.15 | 240  | 550986   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.32 | 264  | 467557   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |       |      |
|--------------------------------|-------|-----|-------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.12  | 96  | 1114  | 0.74 | ng/uL | 0.01 |
| 5) Phenol-d5                   | 6.75  | 99  | 9328m | 1.71 | ng/ul | 0.03 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.89  | 67  | 6645  | 2.01 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.07  | 132 | 9547m | 2.28 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.27  | 113 | 7029m | 1.47 | ng/ul | 0.03 |
| 19) Nitrobenzene-d5            | 8.71  | 128 | 3840m | 1.90 | ng/ul | 0.03 |
| 22) 2-Nitrophenol-d4           | 9.43  | 143 | 4527m | 2.17 | ng/ul | 0.03 |
| 26) 2,4-Dichlorophenol-d3      | 10.00 | 165 | 6419m | 1.49 | ng/ul | 0.07 |
| 29) 4-Chloroaniline-d4         | 10.52 | 131 | 298   | 0.07 | ng/ul | 0.06 |
| 43) Dimethylphthalate-d6       | 13.61 | 166 | 38341 | 2.69 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.88 | 160 | 46486 | 2.65 | ng/ul | 0.01 |
| 51) 4-Nitrophenol-d4           | 0.00  | 143 | 0     | 0.00 | ng/ul |      |
| 57) Fluorene-d10               | 15.19 | 176 | 33812 | 2.65 | ng/ul | 0.01 |
| 62) 4,6-Dinitro-2-methylphenol | 15.37 | 200 | 603   | 0.25 | ng/ul | 0.04 |
| 70) Anthracene-d10             | 17.04 | 188 | 54234 | 2.74 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.35 | 212 | 76880 | 2.71 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.19 | 264 | 67959 | 2.99 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |        | Ovalue |           |
|----------------------------|-------|-----|--------|--------|-----------|
| 69) Phenanthrene           | 16.99 | 178 | 127598 | 5.398  | ng/ul 96  |
| 74) Fluoranthene           | 19.01 | 202 | 258885 | 9.167  | ng/ul# 96 |
| 77) Pyrene                 | 19.37 | 202 | 251817 | 6.877  | ng/ul# 96 |
| 80) Benzo(a)anthracene     | 21.14 | 228 | 149630 | 4.351  | ng/ul 97  |
| 82) Chrysene               | 21.19 | 228 | 150295 | 4.685  | ng/ul 98  |
| 85) Benzo(b)fluoranthene   | 22.68 | 252 | 178280 | 5.695  | ng/ul# 97 |
| 86) Benzo(k)fluoranthene   | 22.72 | 252 | 56169  | 1.887  | ng/ul# 88 |
| 88) Benzo(a)pyrene         | 23.23 | 252 | 115888 | 4.142  | ng/ul# 95 |
| 89) Indeno(1,2,3-cd)pyrene | 25.48 | 276 | 69698  | 2.567  | ng/ul# 88 |
| 91) Benzo(g,h,i)perylene   | 26.14 | 276 | 55258  | 2.513  | ng/ul# 95 |

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

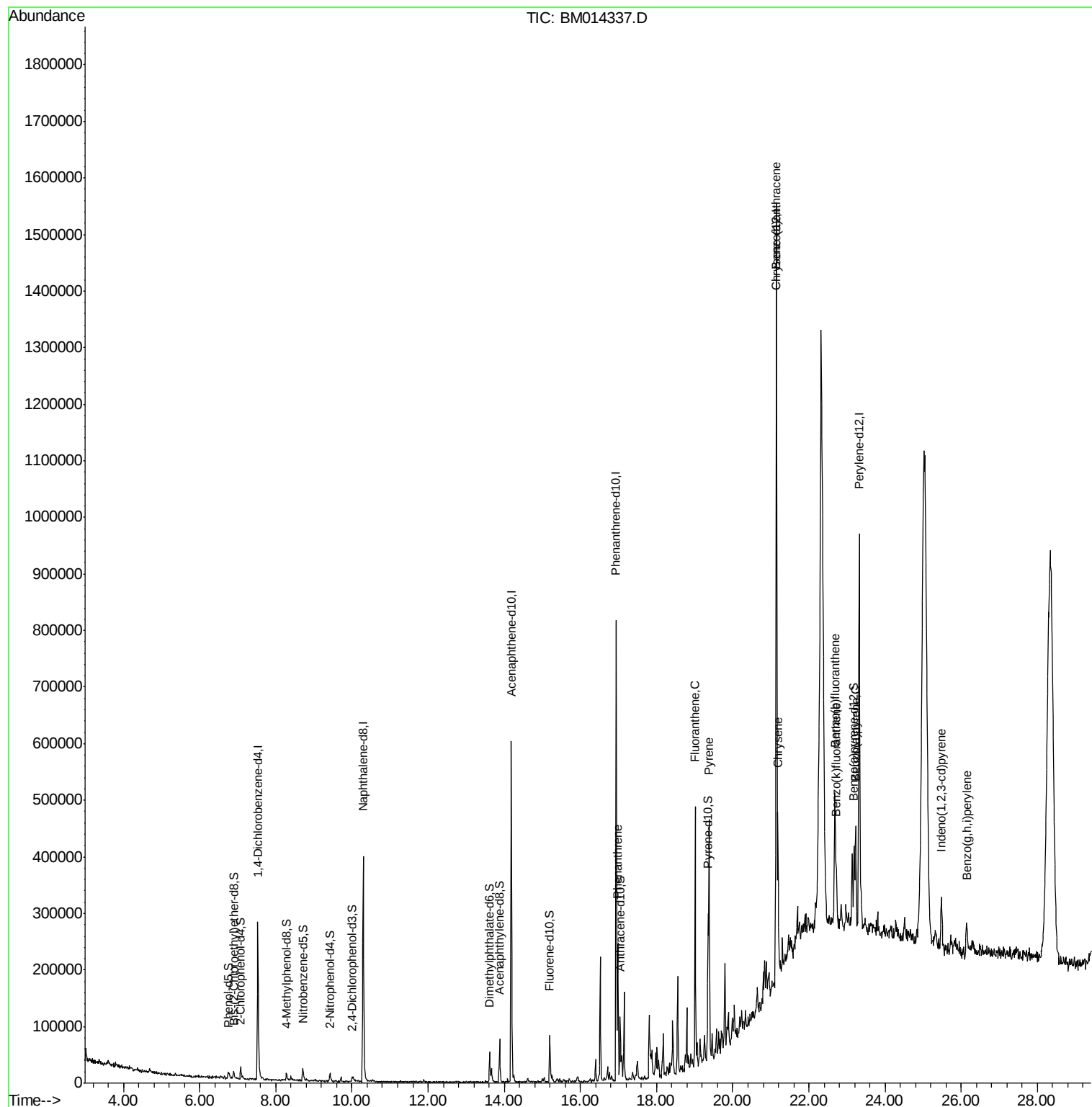
Data Path : Z:\HPCHEM1\BNA M\DATA\BM022318\  
Data File : BM014337.D  
Acq On : 23 Feb 2018 18:56  
Operator : SJ/JU  
Sample : J1631-03 10X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

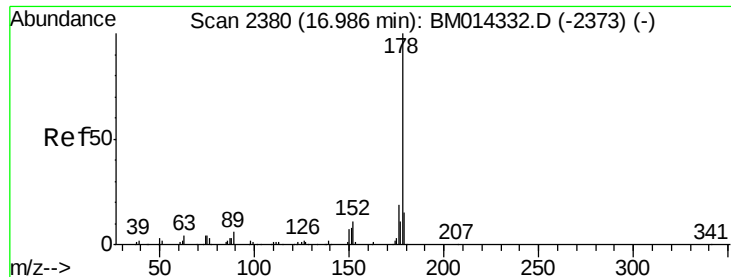
Instrument :  
BNA\_M  
ClientSampleId :  
BE5Y6

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Quant Time: Feb 24 00:10:21 2018  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Feb 23 23:12:42 2018  
Response via : Initial Calibration





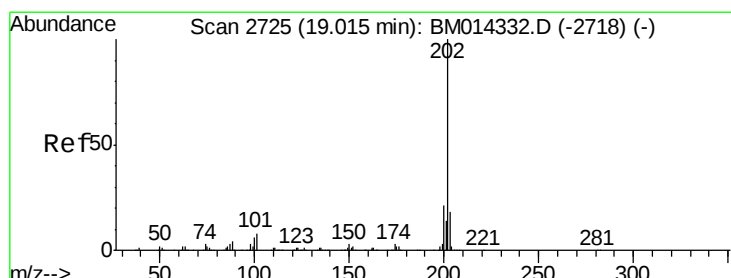
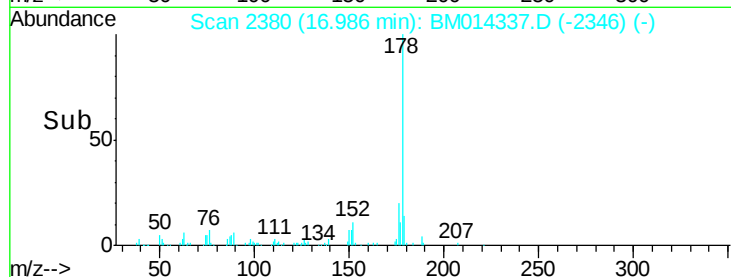
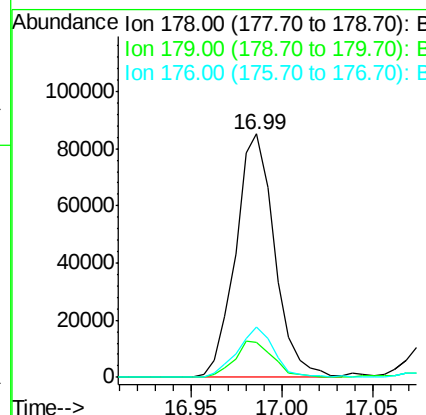
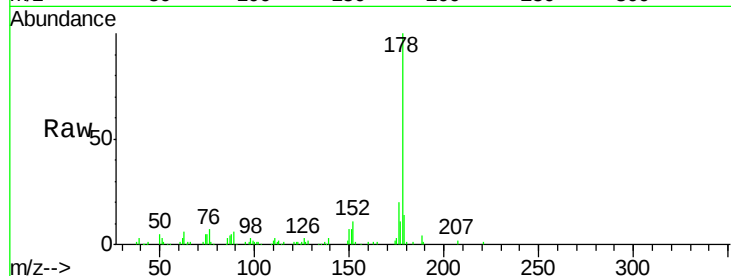
#69  
Phenanthrene  
Concen: 5.398 ng/ul  
RT: 16.99 min Scan# 2380  
Delta R.T. -0.00 min  
Lab File: BM014337.D  
Acq: 23 Feb 2018 18:56

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Y6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.4  | 12.6  | 19.0  |
| 176     | 20.4  | 14.9  | 22.3  |

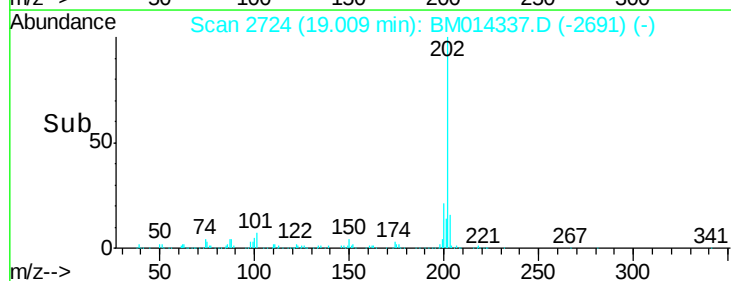
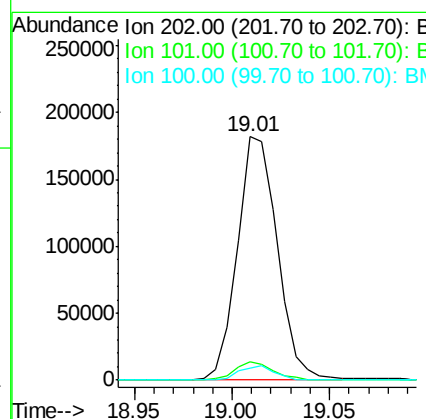
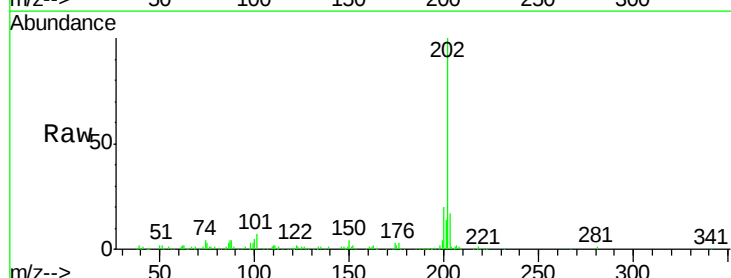
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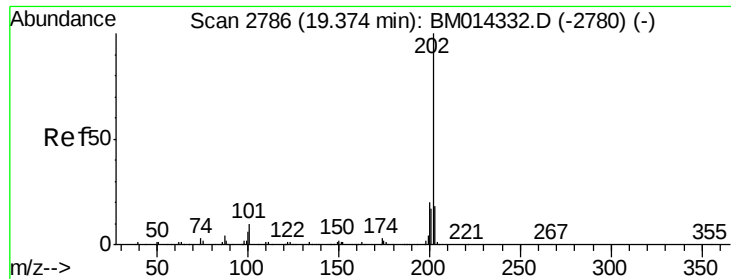
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#74  
Fluoranthene  
Concen: 9.167 ng/ul  
RT: 19.01 min Scan# 2724  
Delta R.T. -0.01 min  
Lab File: BM014337.D  
Acq: 23 Feb 2018 18:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.4   | 4.6   | 7.0#  |
| 100     | 5.1   | 3.4   | 5.2   |





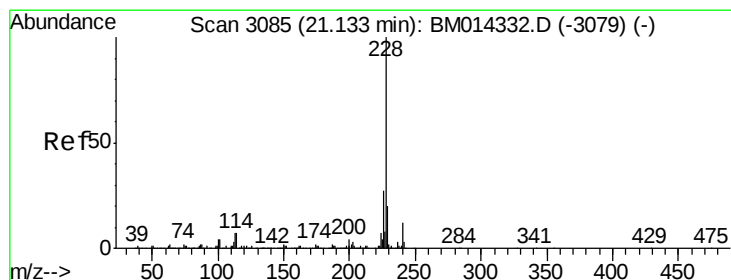
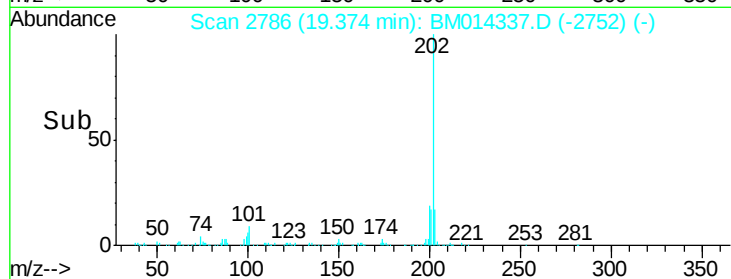
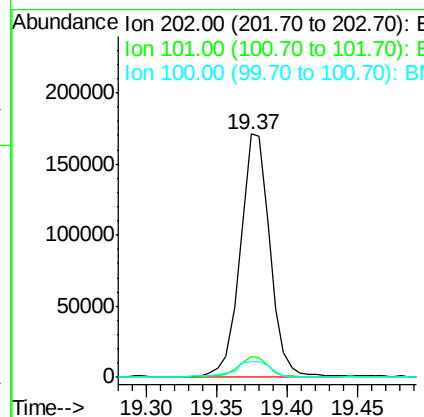
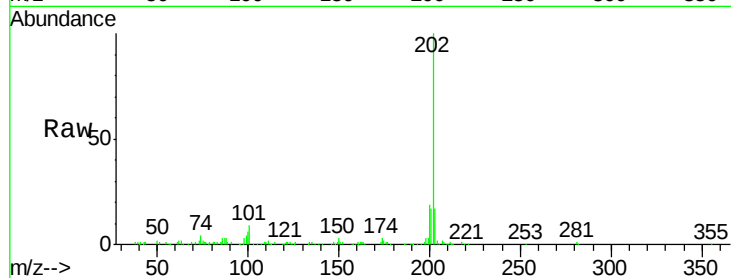
#77  
Pvrene  
Concen: 6.877 ng/ul  
RT: 19.37 min Scan# 2786  
Delta R.T. -0.00 min  
Lab File: BM014337.D  
Acq: 23 Feb 2018 18:56

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Y6

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 8.8   | 5.1        | 7.7#  |
| 100     | 6.4   | 4.9        | 7.3   |

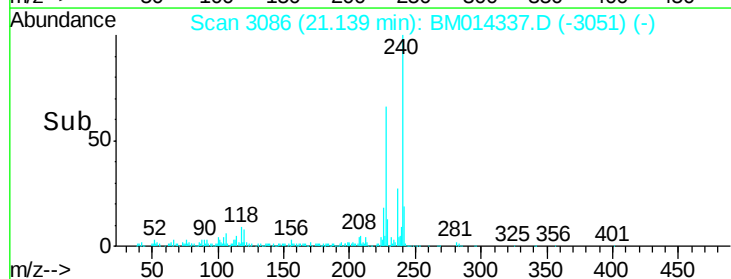
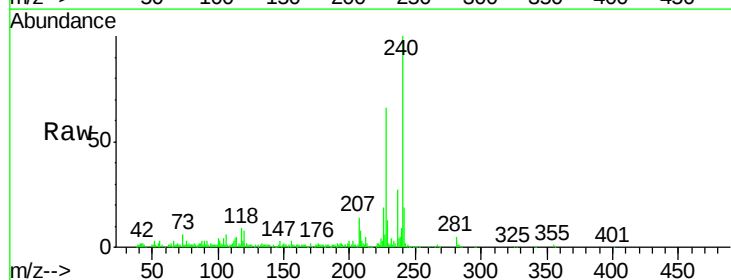
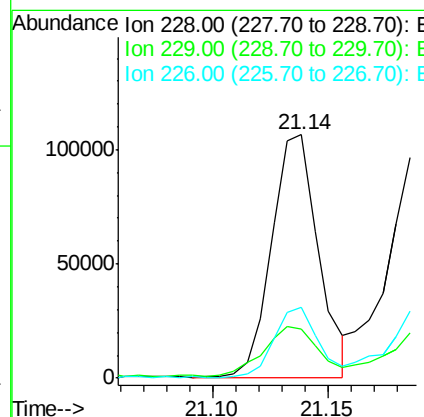
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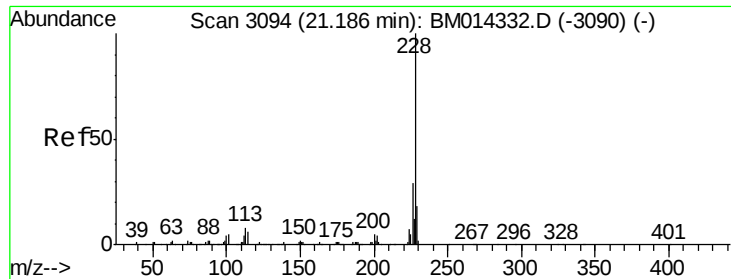
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#80  
Benzo(a)anthracene  
Concen: 4.351 ng/ul  
RT: 21.14 min Scan# 3086  
Delta R.T. 0.01 min  
Lab File: BM014337.D  
Acq: 23 Feb 2018 18:56

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 20.1  | 15.4       | 23.0  |
| 226     | 28.8  | 21.4       | 32.0  |





#82

Chrysene

Concen: 4.685 ng/ul

RT: 21.19 min Scan# 3094

Delta R.T. -0.00 min

Lab File: BM014337.D

Acq: 23 Feb 2018 18:56

Instrument :

BNA\_M

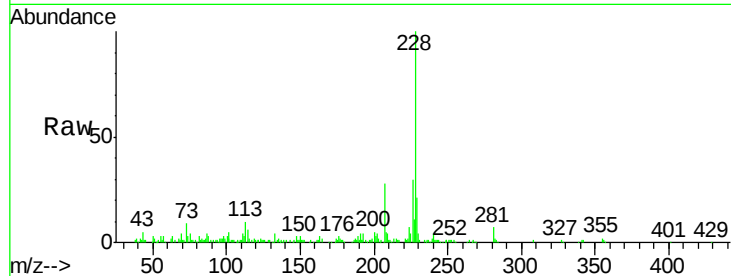
ClientSampleId :

BE5Y6

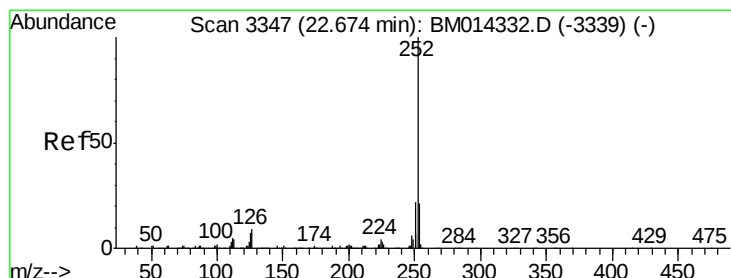
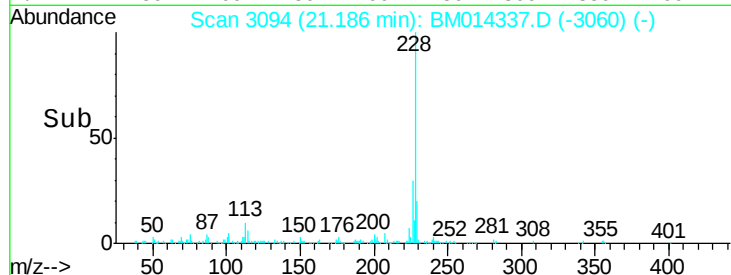
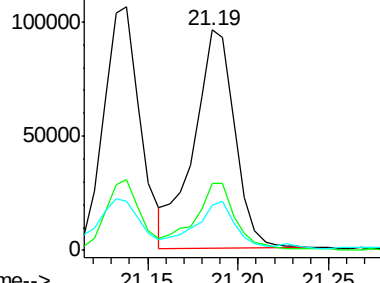
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 228  | Resp: | 150295 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 30.3 | 23.4  | 35.2   |
| 229       | 20.7 | 15.5  | 23.3   |

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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



#85

Benzo(b)fluoranthene

Concen: 5.695 ng/ul

RT: 22.68 min Scan# 3348

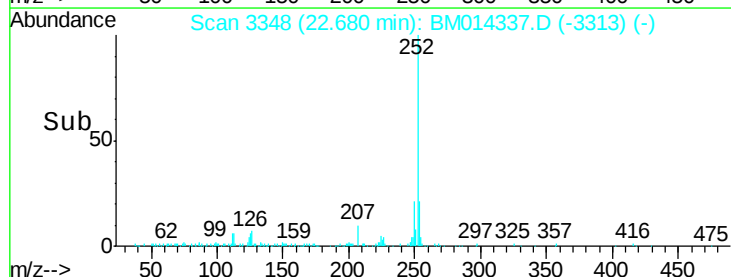
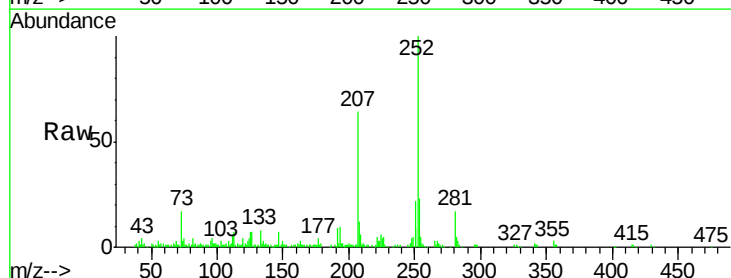
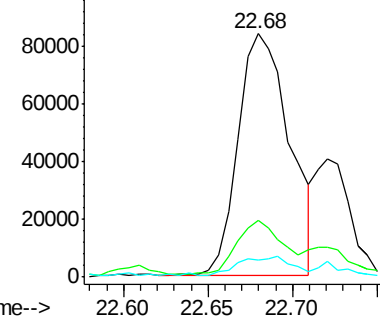
Delta R.T. 0.01 min

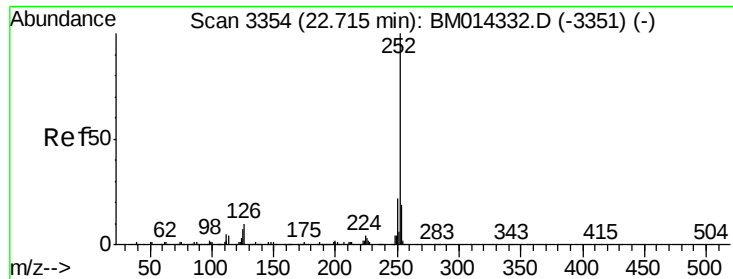
Lab File: BM014337.D

Acq: 23 Feb 2018 18:56

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 252  | Resp: | 178280 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 23.3 | 17.9  | 26.9   |
| 125       | 7.2  | 3.6   | 5.4#   |

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





#86

Benzo(k)fluoranthene

Concen: 1.887 ng/ul

RT: 22.72 min Scan# 3355

Delta R.T. 0.01 min

Lab File: BM014337.D

Acq: 23 Feb 2018 18:56

Instrument :

BNA\_M

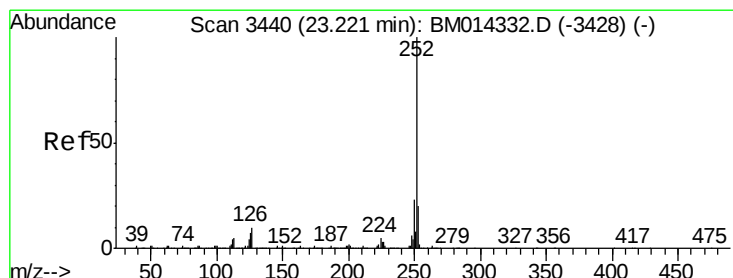
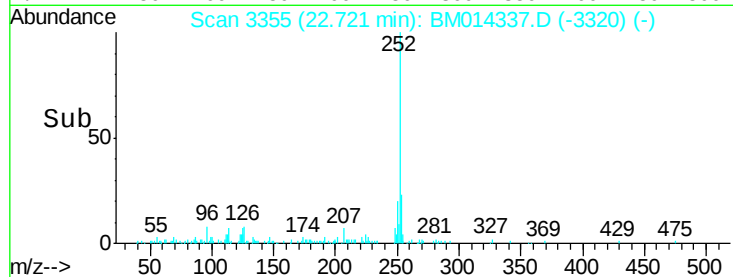
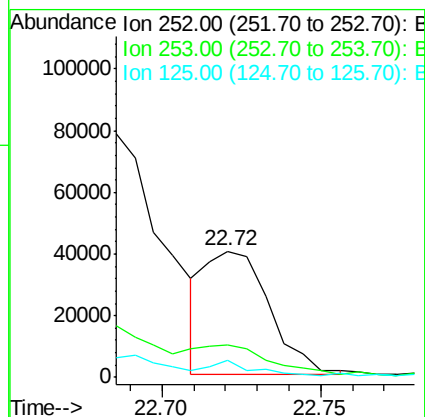
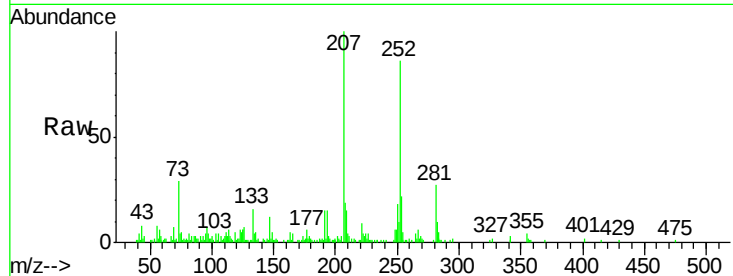
ClientSampled :

BE5Y6

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 56169 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.4  | 17.1  | 25.7  |
| 125       | 13.7  | 3.4   | 5.2#  |

Manual Integrations  
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#88

Benzo(a)pyrene

Concen: 4.142 ng/ul

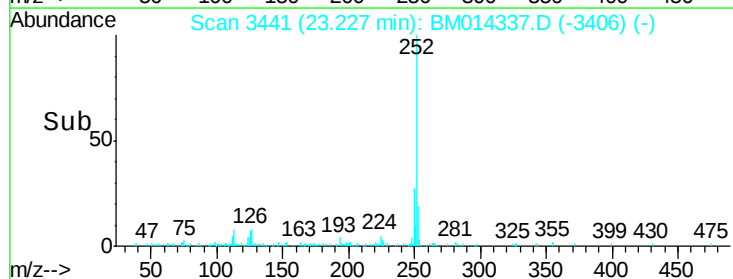
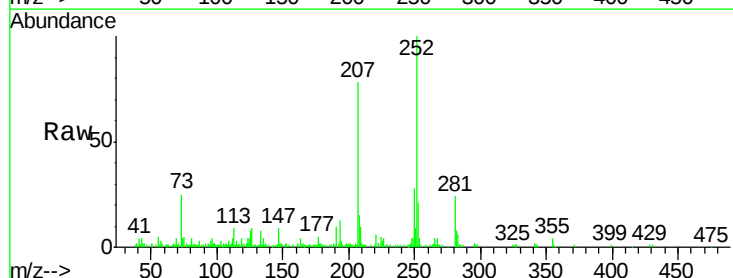
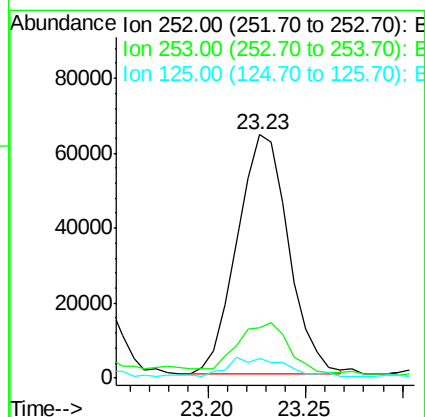
RT: 23.23 min Scan# 3441

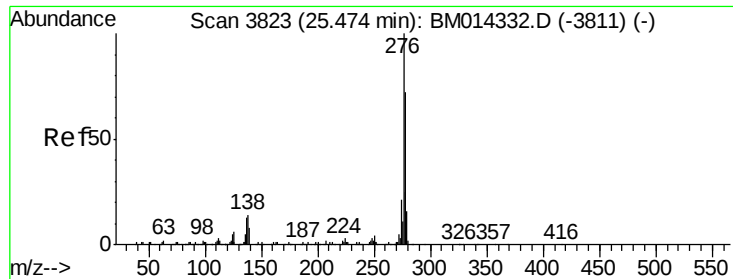
Delta R.T. 0.01 min

Lab File: BM014337.D

Acq: 23 Feb 2018 18:56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 115888 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 20.5  | 18.2  | 27.2   |
| 125       | 8.3   | 4.0   | 6.0#   |





#89

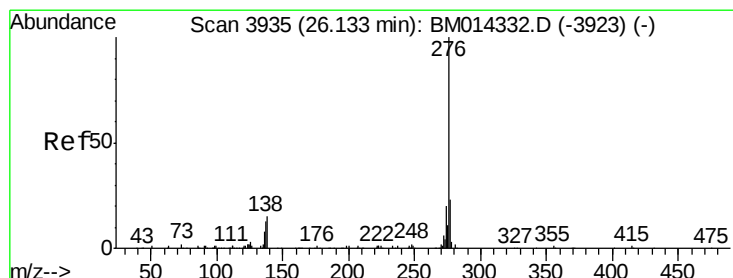
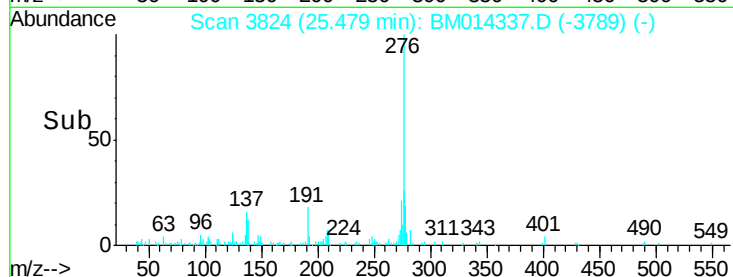
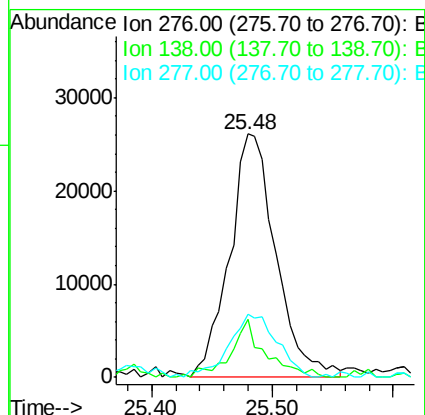
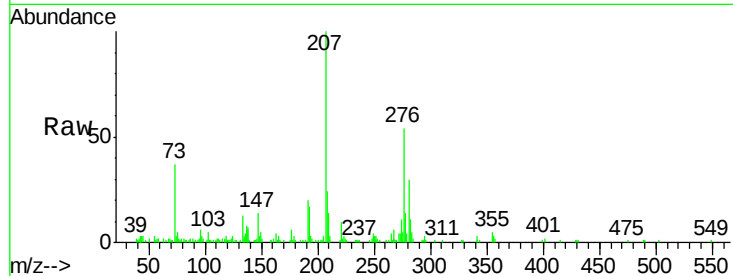
Indeno(1,2,3-cd)pyrene  
Concen: 2.567 ng/ul  
RT: 25.48 min Scan# 3824  
Delta R.T. 0.01 min  
Lab File: BM014337.D  
Acq: 23 Feb 2018 18:56

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Y6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.9  | 9.3   | 13.9# |
| 277     | 26.1  | 19.9  | 29.9  |

Manual Integrations  
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#91

Benzo(g,h,i)perylene  
Concen: 2.513 ng/ul  
RT: 26.14 min Scan# 3937  
Delta R.T. 0.01 min  
Lab File: BM014337.D  
Acq: 23 Feb 2018 18:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.9  | 8.5   | 12.7# |
| 277     | 23.7  | 18.6  | 28.0  |

