

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM110517\  
 Data File : BM012766.D  
 Acq On : 06 Nov 2017 07:34  
 Operator : SJ/JU  
 Sample : I5902-06  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-65(1.5-2.7)-101317

Manual Integrations  
 APPROVED

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 11/7/2017 5:35:04 PM

Quant Time: Nov 07 03:23:04 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\Methods\SOM-EPA-BM110417MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 06 07:19:57 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 191084   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.61 | 136  | 789397   | 20.00 | ng/ul | 0.01     |
| 35) Acenaphthene-d10      | 14.46 | 164  | 487157   | 20.00 | ng/ul | 0.01     |
| 61) Phenanthrene-d10      | 17.20 | 188  | 1050974  | 20.00 | ng/ul | 0.01     |
| 77) Chrysene-d12          | 21.39 | 240  | 861385   | 20.00 | ng/ul | 0.01     |
| 85) Perylene-d12          | 23.68 | 264  | 945527   | 20.00 | ng/ul | 0.02     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.30  | 96  | 17196   | 4.86  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.00  | 99  | 405007  | 28.49 | ng/ul | 0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.15  | 67  | 222275  | 28.85 | ng/ul | 0.01 |
| 9) 2-Chlorophenol-d4           | 7.36  | 132 | 352950  | 29.80 | ng/ul | 0.01 |
| 13) 4-Methylphenol-d8          | 8.53  | 113 | 338589  | 27.59 | ng/ul | 0.01 |
| 19) Nitrobenzene-d5            | 8.97  | 128 | 178186  | 30.55 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.70  | 143 | 201620  | 30.21 | ng/ul | 0.01 |
| 26) 2,4-Dichlorophenol-d3      | 10.24 | 165 | 405888  | 29.67 | ng/ul | 0.01 |
| 29) 4-Chloroaniline-d4         | 10.75 | 131 | 270179  | 20.46 | ng/ul | 0.01 |
| 43) Dimethylphthalate-d6       | 13.87 | 166 | 1209699 | 30.01 | ng/ul | 0.01 |
| 46) Acenaphthylene-d8          | 14.15 | 160 | 1522667 | 30.54 | ng/ul | 0.01 |
| 51) 4-Nitrophenol-d4           | 14.69 | 143 | 149178  | 23.09 | ng/ul | 0.02 |
| 57) Fluorene-d10               | 15.45 | 176 | 1053493 | 30.51 | ng/ul | 0.01 |
| 62) 4,6-Dinitro-2-methylphenol | 15.59 | 200 | 23746   | 3.42  | ng/ul | 0.02 |
| 70) Anthracene-d10             | 17.30 | 188 | 1500977 | 29.56 | ng/ul | 0.01 |
| 78) Pyrene-d10                 | 19.60 | 212 | 1372152 | 34.33 | ng/ul | 0.02 |
| 89) Benzo(a)pyrene-d12         | 23.54 | 264 | 1362054 | 30.47 | ng/ul | 0.03 |

## Target Compounds

|                            |       |     |         |        | Qvalue    |
|----------------------------|-------|-----|---------|--------|-----------|
| 6) Phenol                  | 7.02  | 94  | 74899   | 5.132  | ng/ul 95  |
| 44) Dimethylphthalate      | 13.92 | 163 | 669693  | 16.741 | ng/ul 100 |
| 60) 4-Nitroaniline         | 15.53 | 138 | 13061   | 1.662  | ng/ul 96  |
| 69) Phenanthrene           | 17.24 | 178 | 194815  | 3.391  | ng/ul 98  |
| 71) Anthracene             | 17.34 | 178 | 63106   | 1.060  | ng/ul 97  |
| 75) Di-n-butylphthalate    | 18.17 | 149 | 1127867 | 19.377 | ng/ul 99  |
| 76) Fluoranthene           | 19.26 | 202 | 226833  | 3.286  | ng/ul# 94 |
| 79) Pyrene                 | 19.63 | 202 | 211085  | 4.107  | ng/ul# 90 |
| 82) Benzo(a)anthracene     | 21.37 | 228 | 170456  | 3.270  | ng/ul 94  |
| 84) Chrysene               | 21.42 | 228 | 161420m | 3.417  | ng/ul     |
| 87) Benzo(b)fluoranthene   | 22.99 | 252 | 337993  | 5.849  | ng/ul 97  |
| 88) Benzo(k)fluoranthene   | 23.03 | 252 | 90011m  | 1.639  | ng/ul     |
| 90) Benzo(a)pyrene         | 23.58 | 252 | 256129  | 4.658  | ng/ul 94  |
| 91) Indeno(1,2,3-cd)pyrene | 26.00 | 276 | 220849  | 3.333  | ng/ul# 85 |
| 93) Benzo(g,h,i)perylene   | 26.72 | 276 | 207688  | 3.804  | ng/ul# 92 |

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

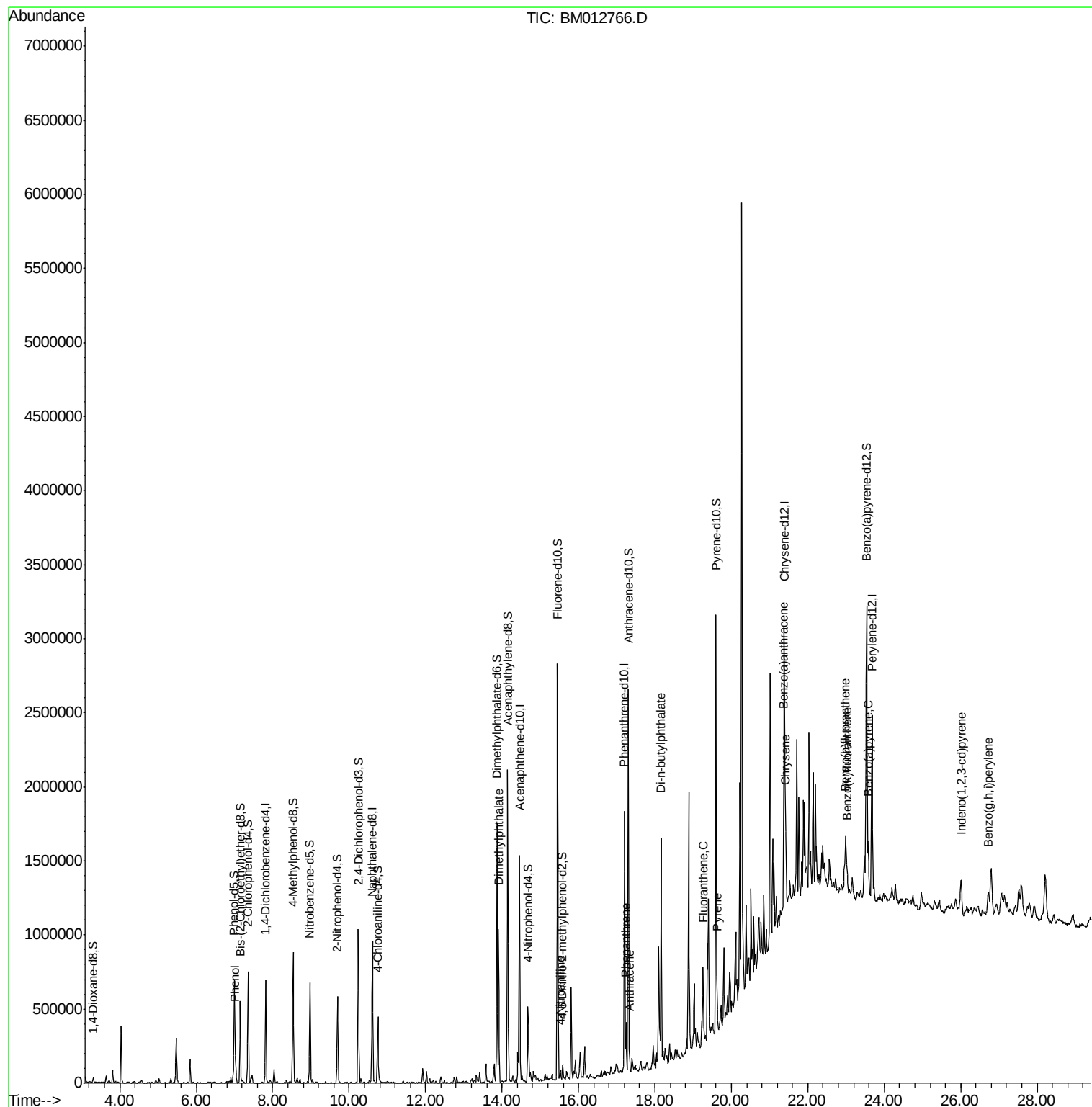
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM110517\  
Data File : BM012766.D  
Acq On : 06 Nov 2017 07:34  
Operator : SJ/JU  
Sample : I5902-06  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

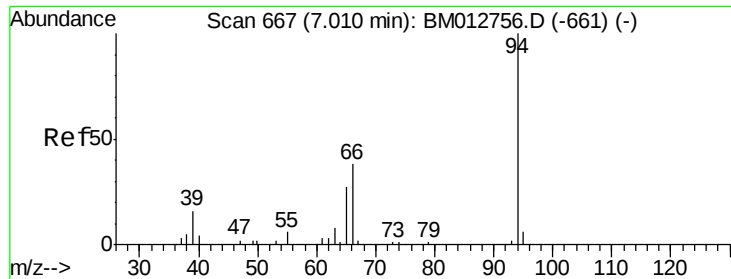
Instrument :  
BNA\_M  
ClientSampled :  
B-65(1.5-2.7)-101317

Quant Time: Nov 07 03:23:04 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\Methods\SOM-EPA-BM110417MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Nov 06 07:19:57 2017  
Response via : Initial Calibration

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#6

Phenol

Concen: 5.132 ng/ul

RT: 7.02 min Scan# 669

Delta R.T. 0.01 min

Lab File: BM012766.D

Acq: 06 Nov 2017 07:34

Instrument :

BNA\_M

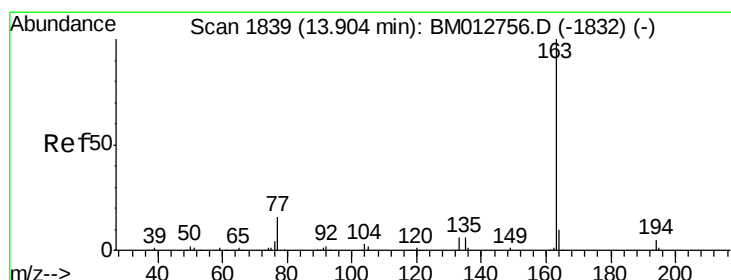
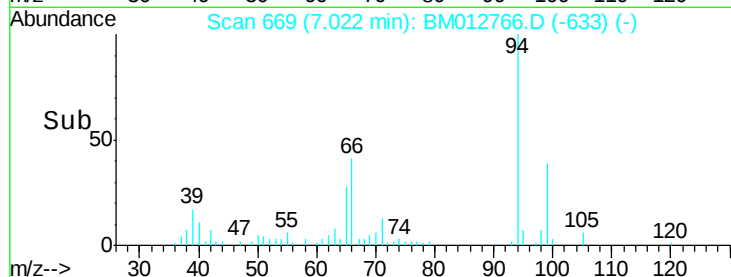
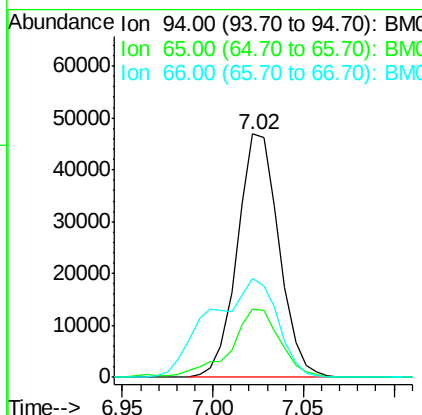
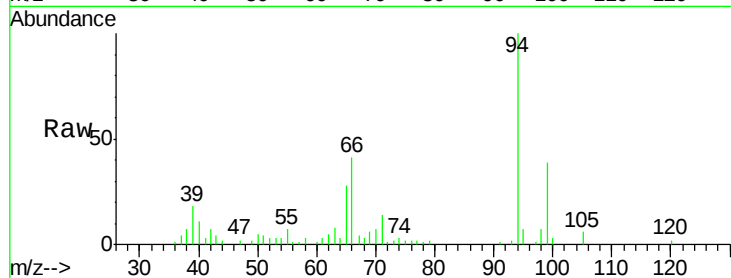
ClientSampleId :

B-65(1.5-2.7)-101317

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 74899 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 27.8  | 21.0  | 31.6  |
| 66       | 40.9  | 29.3  | 43.9  |

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#44

Dimethylphthalate

Concen: 16.741 ng/ul

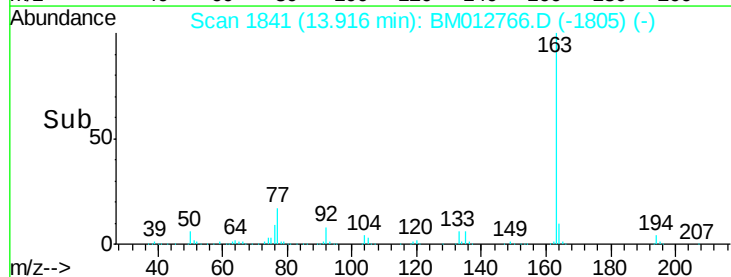
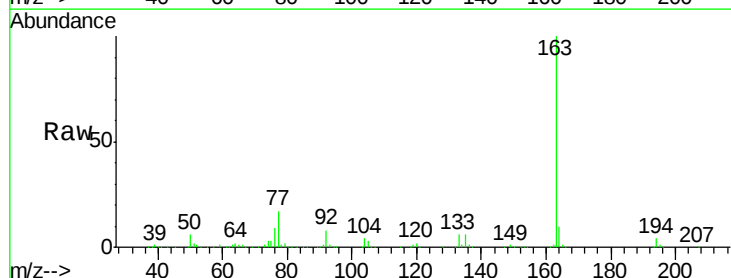
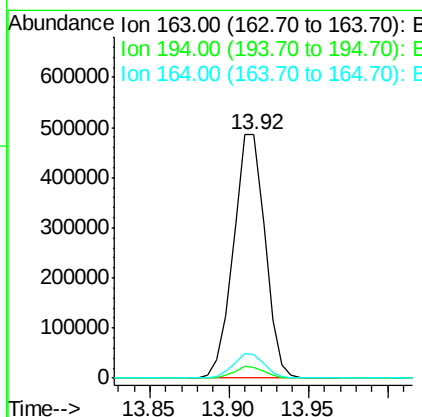
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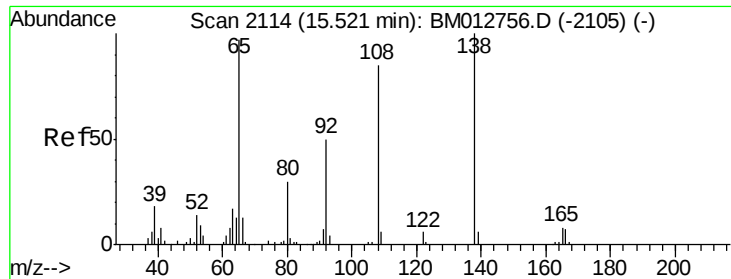
Delta R.T. 0.01 min

Lab File: BM012766.D

Acq: 06 Nov 2017 07:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 163   | Resp: | 669693 |
| Ion      | Ratio | Lower | Upper  |
| 163      | 100   |       |        |
| 194      | 4.4   | 3.2   | 4.8    |
| 164      | 9.8   | 7.8   | 11.8   |





#60

4-Nitroaniline

Concen: 1.662 ng/ul

RT: 15.53 min Scan# 2116

Delta R.T. 0.01 min

Lab File: BM012766.D

Acq: 06 Nov 2017 07:34

Instrument :

BNA\_M

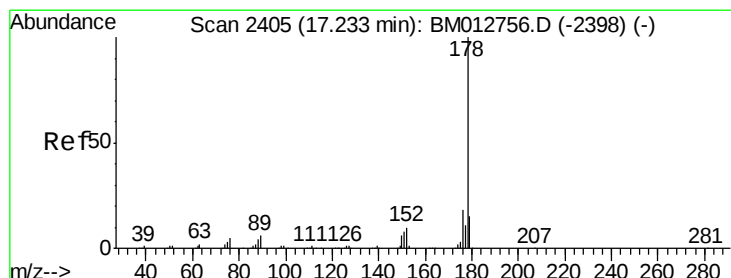
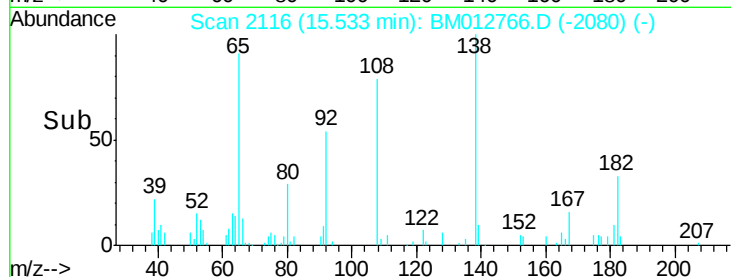
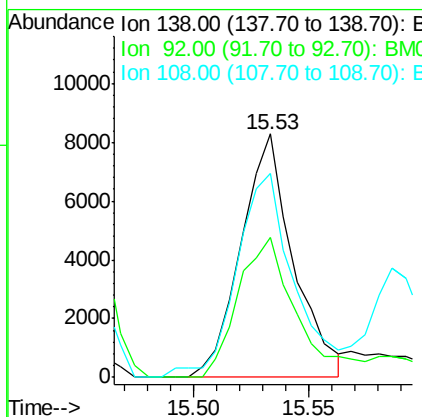
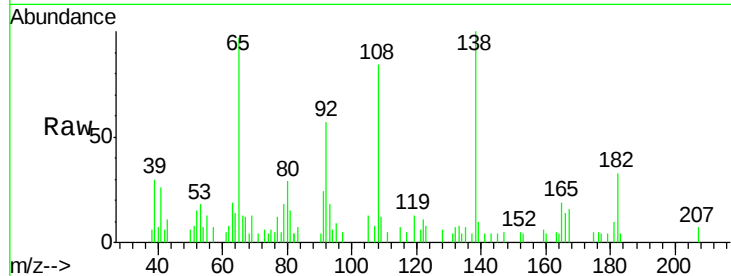
ClientSampleId :

B-65(1.5-2.7)-101317

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 138   | Resp: | 13061 |
| Ion Ratio | Lower | Upper |       |
| 138       | 100   |       |       |
| 92        | 57.5  | 40.6  | 60.8  |
| 108       | 83.6  | 67.0  | 100.6 |

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#69

Phenanthrene

Concen: 3.391 ng/ul

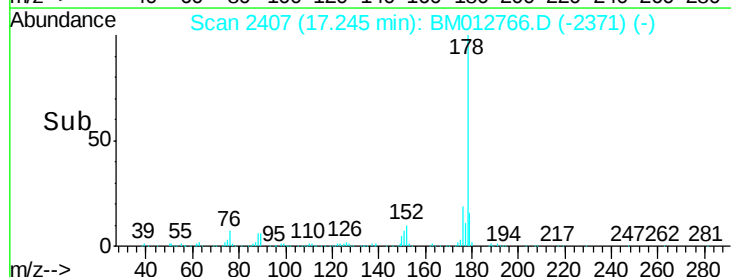
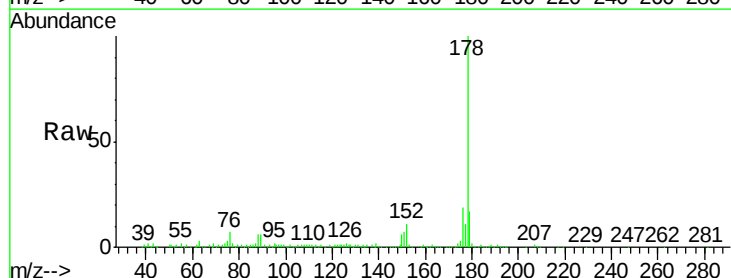
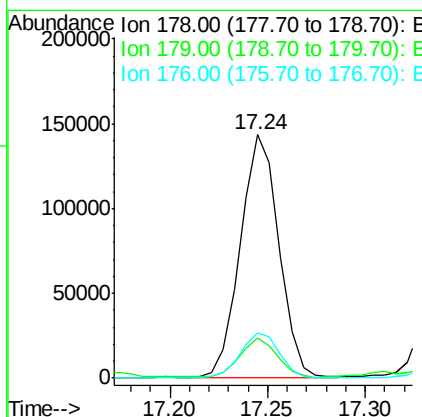
RT: 17.24 min Scan# 2407

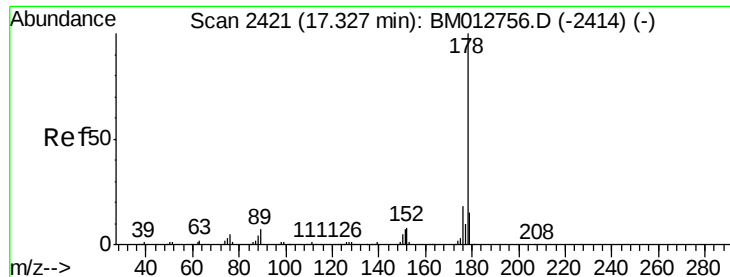
Delta R.T. 0.01 min

Lab File: BM012766.D

Acq: 06 Nov 2017 07:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 194815 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.6  | 12.2  | 18.4   |
| 176       | 18.7  | 15.6  | 23.4   |





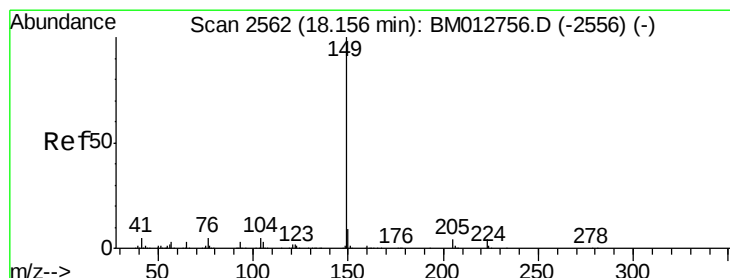
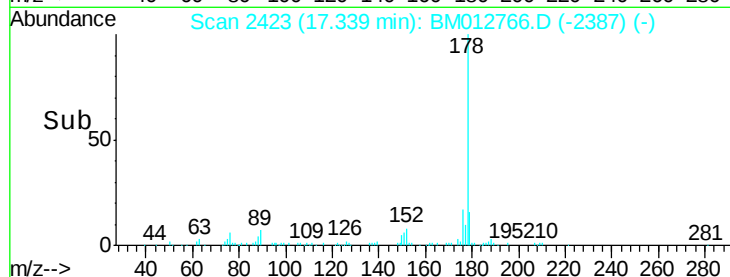
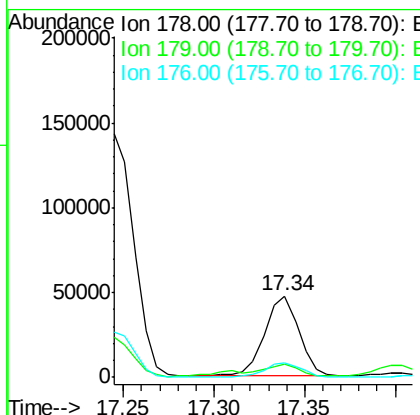
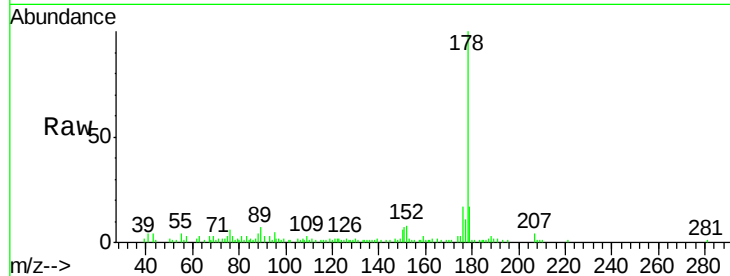
#71  
 Anthracene  
 Concen: 1.060 ng/ul  
 RT: 17.34 min Scan# 2423  
 Delta R.T. 0.01 min  
 Lab File: BM012766.D  
 Acq: 06 Nov 2017 07:34

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-65(1.5-2.7)-101317

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.9  | 12.1  | 18.1  |
| 176     | 17.5  | 14.8  | 22.2  |

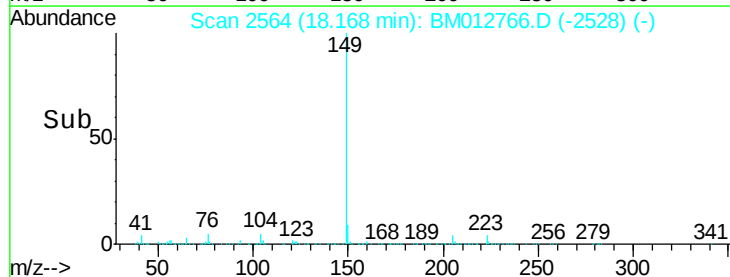
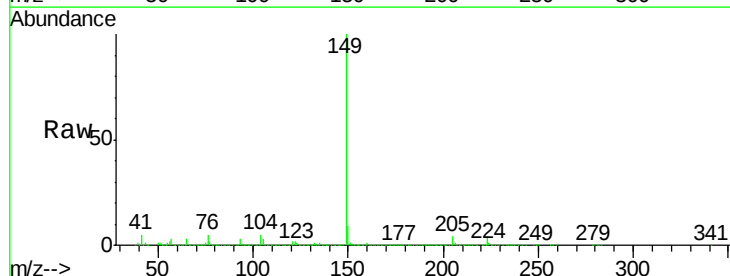
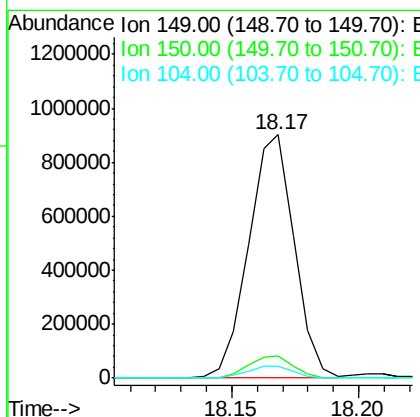
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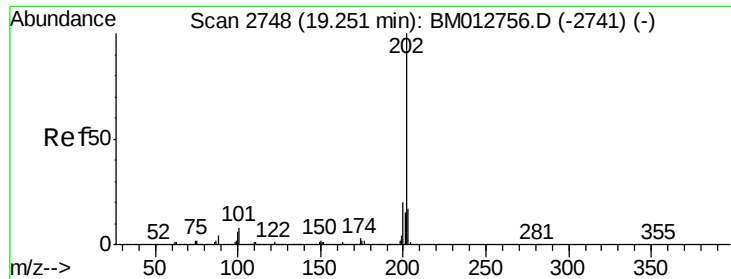
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#75  
 Di-n-butylphthalate  
 Concen: 19.377 ng/ul  
 RT: 18.17 min Scan# 2564  
 Delta R.T. 0.01 min  
 Lab File: BM012766.D  
 Acq: 06 Nov 2017 07:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 8.9   | 7.4   | 11.0  |
| 104     | 4.9   | 4.0   | 6.0   |





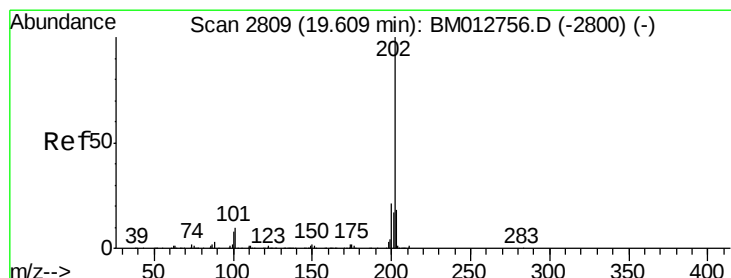
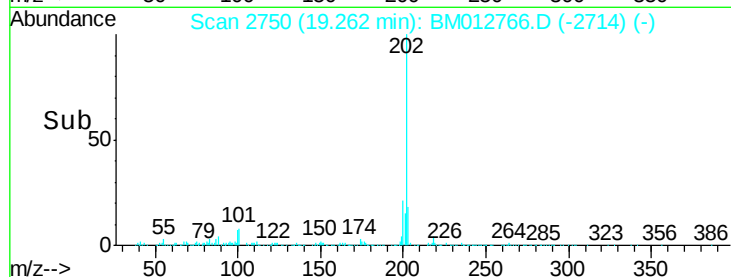
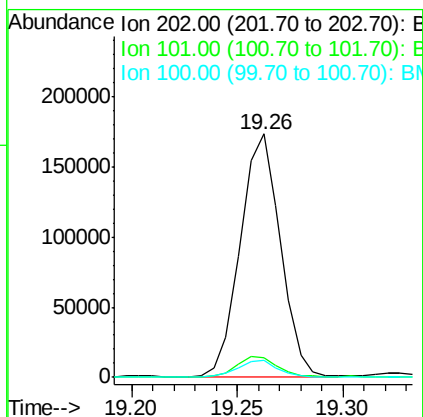
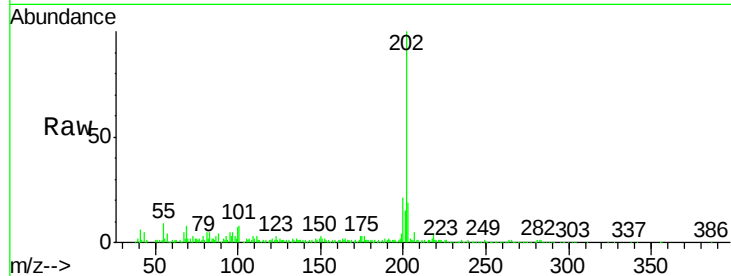
#76  
 Fluoranthene  
 Concen: 3.286 ng/ul  
 RT: 19.26 min Scan# 2750  
 Delta R.T. 0.01 min  
 Lab File: BM012766.D  
 Acq: 06 Nov 2017 07:34

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-65(1.5-2.7)-101317

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 8.0   | 8.8        | 13.2#      |
| 100     | 6.8   | 6.6        | 9.8        |

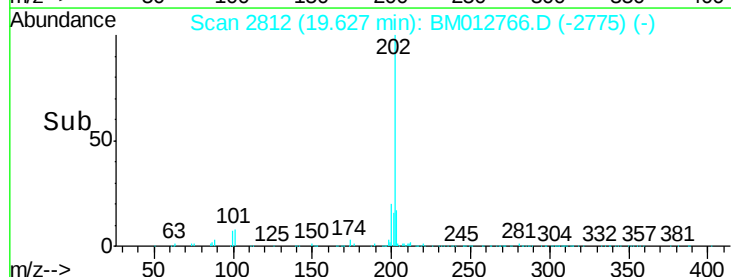
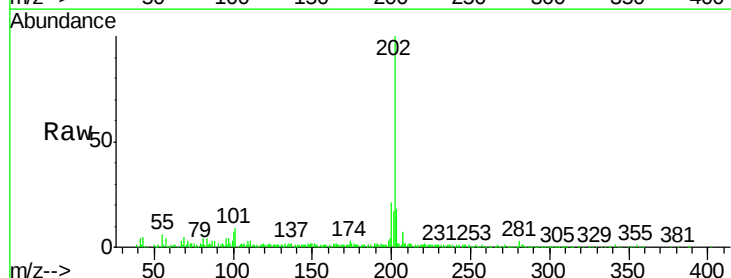
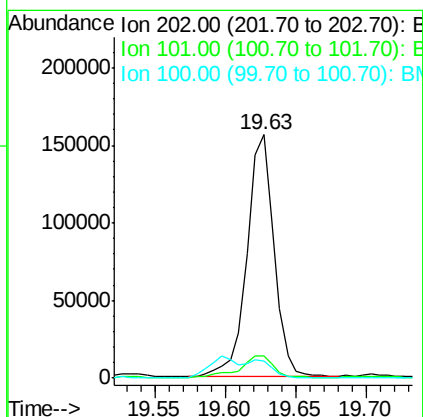
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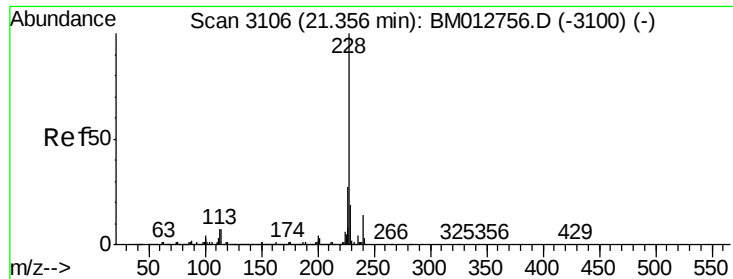
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 11/7/2017 5:35:04 PM



#79  
 Pyrene  
 Concen: 4.107 ng/ul  
 RT: 19.63 min Scan# 2812  
 Delta R.T. 0.02 min  
 Lab File: BM012766.D  
 Acq: 06 Nov 2017 07:34

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 9.0   | 10.2       | 15.2#      |
| 100     | 6.9   | 8.5        | 12.7#      |





#82

Benzo(a)anthracene

Concen: 3.270 ng/ul

RT: 21.37 min Scan# 3108

Delta R.T. 0.01 min

Lab File: BM012766.D

Acq: 06 Nov 2017 07:34

Instrument :

BNA\_M

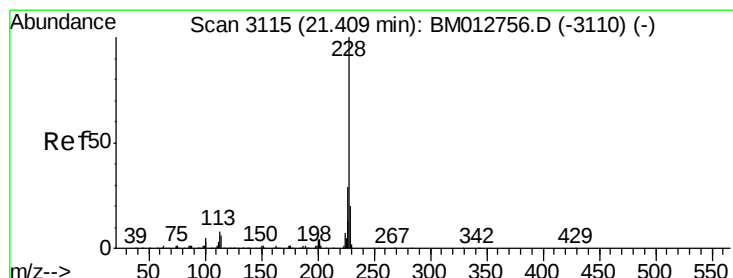
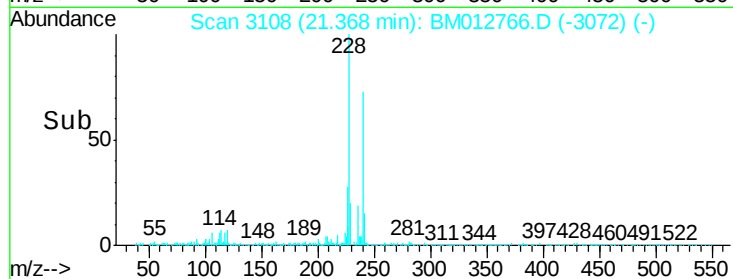
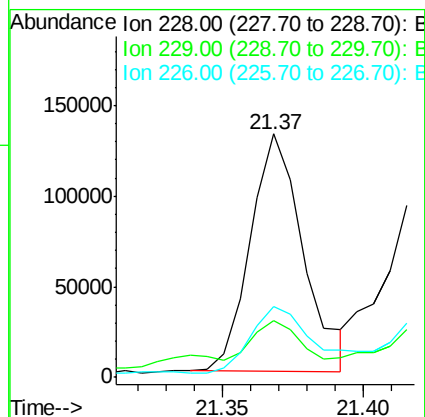
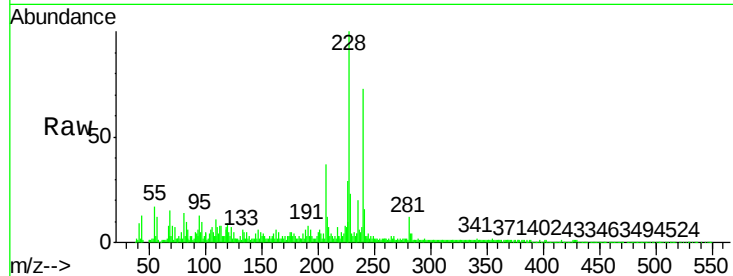
ClientSampleId :

B-65(1.5-2.7)-101317

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 170456 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 23.4  | 15.7  | 23.5   |
| 226       | 29.1  | 21.8  | 32.6   |

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#84

Chrysene

Concen: 3.417 ng/ul m

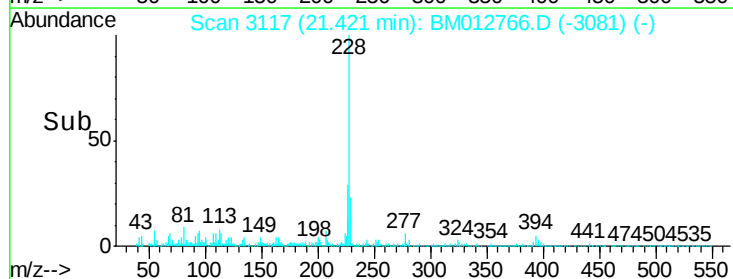
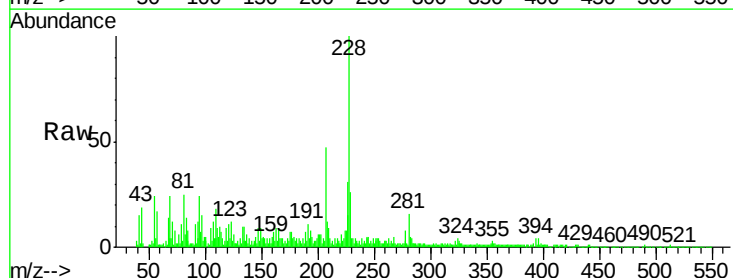
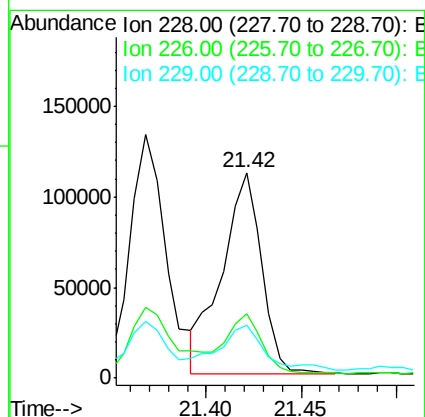
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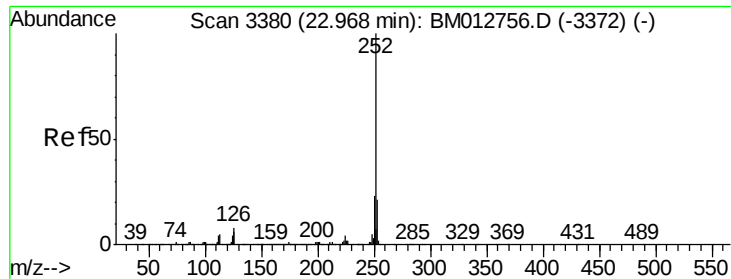
Delta R.T. 0.01 min

Lab File: BM012766.D

Acq: 06 Nov 2017 07:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 161420 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.1  | 24.0  | 36.0   |
| 229       | 26.0  | 15.6  | 23.4#  |





#87

Benzo(b)fluoranthene

Concen: 5.849 ng/ul

RT: 22.99 min Scan# 3384

Delta R.T. 0.02 min

Lab File: BM012766.D

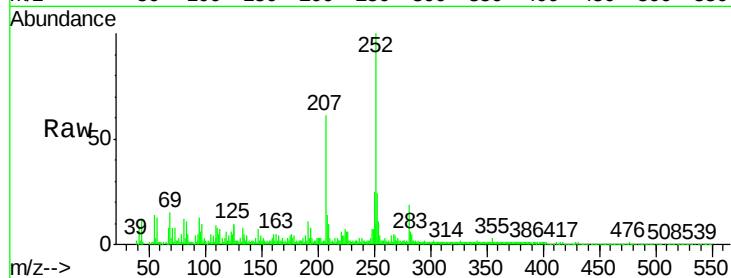
Acq: 06 Nov 2017 07:34

Instrument :

BNA\_M

ClientSampleId :

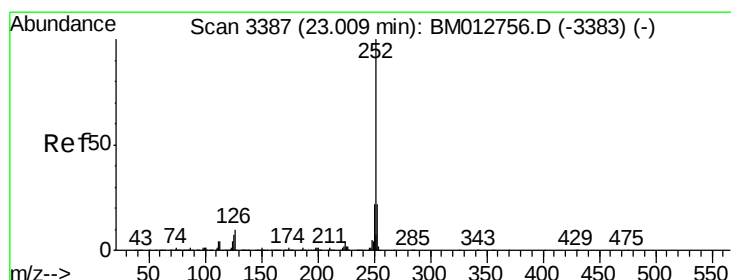
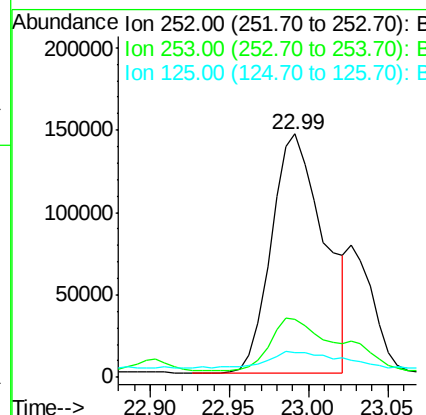
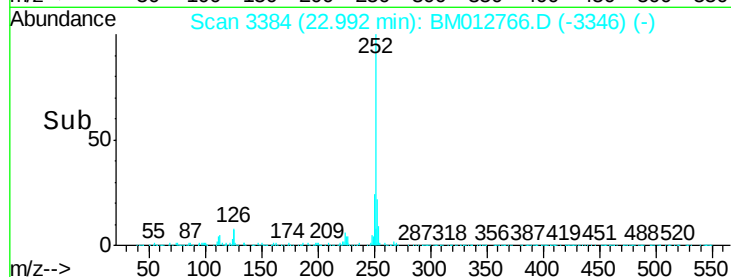
B-65(1.5-2.7)-101317



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 17.5  | 26.3  |
| 125     | 10.4  | 8.5   | 12.7  |

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#88

Benzo(k)fluoranthene

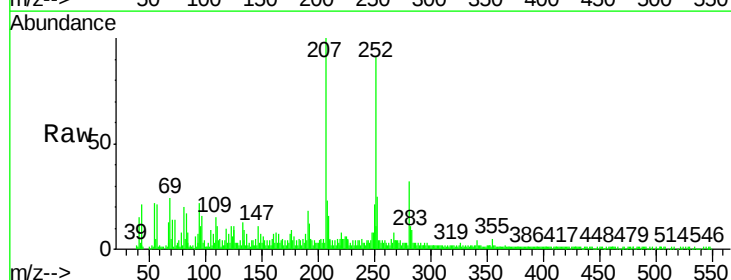
Concen: 1.639 ng/ul m

RT: 23.03 min Scan# 3390

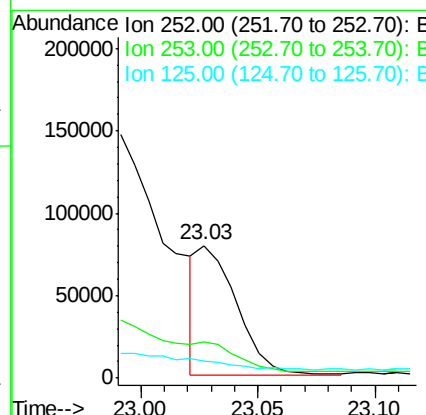
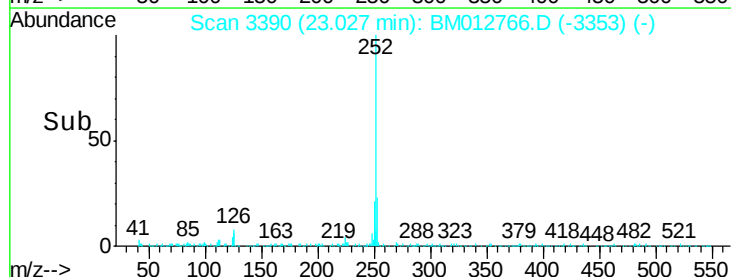
Delta R.T. 0.02 min

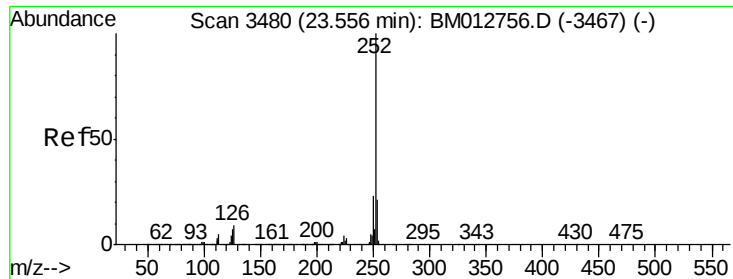
Lab File: BM012766.D

Acq: 06 Nov 2017 07:34



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.1  | 17.3  | 25.9# |
| 125     | 12.5  | 8.2   | 12.2# |





#90

Benzo(a)pyrene

Concen: 4.658 ng/ul

RT: 23.58 min Scan# 3484

Delta R.T. 0.02 min

Lab File: BM012766.D

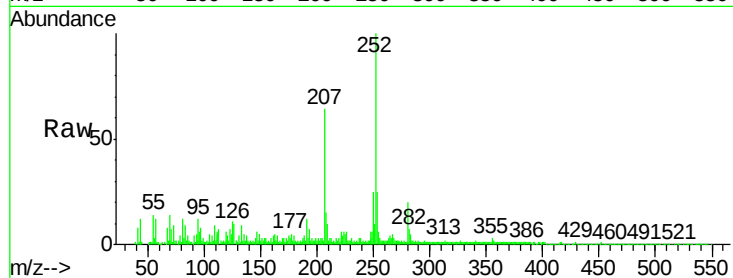
Acq: 06 Nov 2017 07:34

Instrument :

BNA\_M

ClientSampleId :

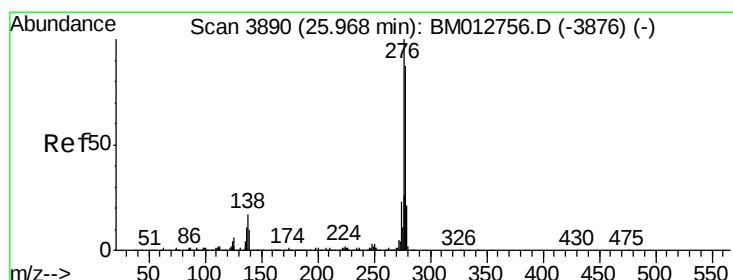
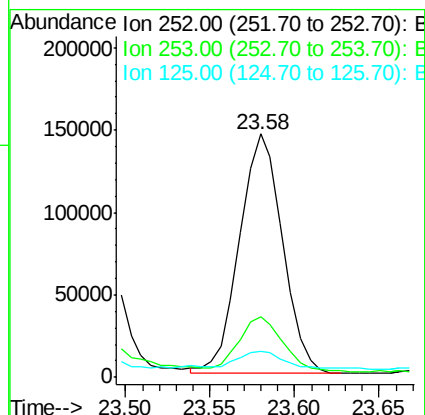
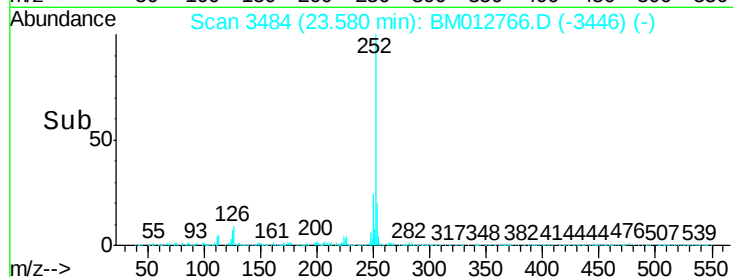
B-65(1.5-2.7)-101317



| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 252     | 100   |      |       |       |
| 253     | 25.1  | 17.2 | 25.8  |       |
| 125     | 10.6  | 9.0  | 13.6  |       |

Manual Integrations  
APPROVED

Sohil  
11/7/2017 5:35:04 PM



#91

Indeno(1,2,3-cd)pyrene

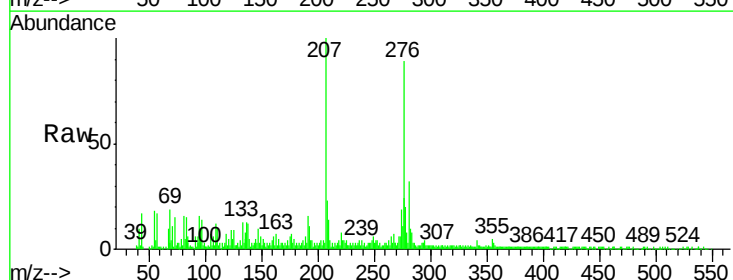
Concen: 3.333 ng/ul

RT: 26.00 min Scan# 3896

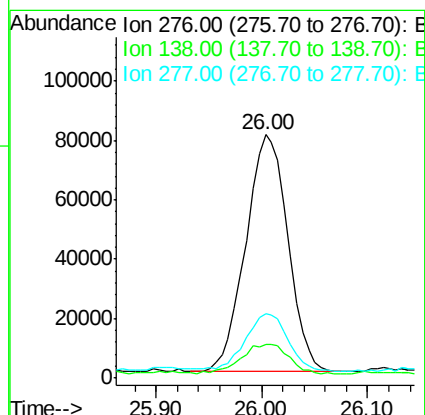
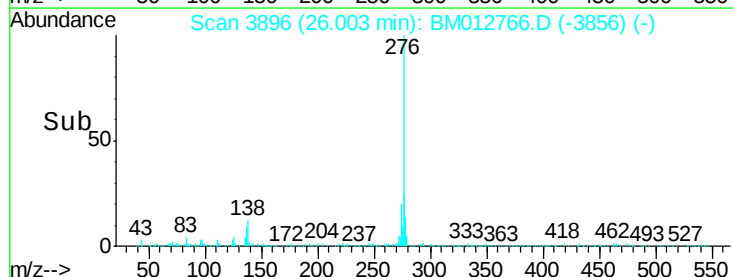
Delta R.T. 0.04 min

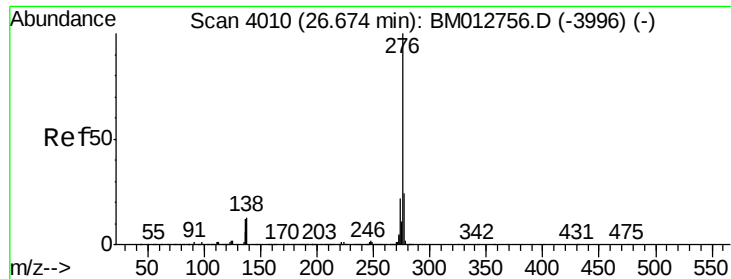
Lab File: BM012766.D

Acq: 06 Nov 2017 07:34



| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 276     | 100   |      |       |       |
| 138     | 13.7  | 22.3 | 33.5# |       |
| 277     | 26.4  | 20.2 | 30.2  |       |





#93

Benzo(g,h,i)perylene

Concen: 3.804 ng/ul

RT: 26.72 min Scan# 4018

Delta R.T. 0.05 min

Lab File: BM012766.D

Acq: 06 Nov 2017 07:34

Instrument :

BNA\_M

ClientSampleId :

B-65(1.5-2.7)-101317

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:276 | Resp: | 207688 |
| Ion | Ratio   | Lower | Upper  |
| 276 | 100     |       |        |
| 138 | 16.1    | 18.9  | 28.3#  |
| 277 | 24.6    | 19.2  | 28.8   |

Manual Integrations  
APPROVED

Sohil  
11/7/2017 5:35:04 PM

