

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM011616\  
 Data File : BM004046.D  
 Acq On : 15 Jan 2016 14:11  
 Operator : SJ/UM  
 Sample : H1100-04DL 10X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC985DL

Manual Integrations  
 APPROVED

Sohil  
 1/16/2016 5:01:01 AM

Quant Time: Jan 16 01:25:27 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM010116.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Jan 16 00:22:06 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 32723    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.45 | 136  | 161171   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.32 | 164  | 94447    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.07 | 188  | 211422   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.27 | 240  | 194564   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.51 | 264  | 168514   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |       |      |
|--------------------------------|-------|-----|-------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0     | 0.00 | ng/uL |      |
| 5) Phenol-d5                   | 6.85  | 99  | 4950  | 1.82 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.00  | 67  | 3003  | 1.96 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.20  | 132 | 4720  | 2.11 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.38  | 113 | 4058  | 1.84 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.82  | 128 | 1988  | 1.64 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.54  | 143 | 1950  | 1.47 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.09 | 165 | 4047  | 1.71 | ng/ul | 0.01 |
| 29) 4-Chloroaniline-d4         | 10.60 | 131 | 1624  | 0.52 | ng/ul | 0.01 |
| 44) Dimethylphthalate-d6       | 13.73 | 166 | 16484 | 2.22 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.01 | 160 | 20131 | 2.23 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 0.00  | 143 | 0d    | 0.00 | ng/ul |      |
| 58) Fluorene-d10               | 15.32 | 176 | 16184 | 2.57 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0     | 0.00 | ng/ul |      |
| 71) Anthracene-d10             | 17.17 | 188 | 24573 | 2.51 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.47 | 212 | 26685 | 2.65 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.37 | 264 | 21577 | 2.56 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |        |       |       | Qvalue |
|----------------------------|-------|-----|--------|-------|-------|--------|
| 70) Phenanthrene           | 17.12 | 178 | 48950  | 4.12  | ng/ul | 99     |
| 77) Fluoranthene           | 19.14 | 202 | 101013 | 8.18  | ng/ul | 99     |
| 80) Pyrene                 | 19.50 | 202 | 148162 | 11.22 | ng/ul | 99     |
| 83) Benzo(a)anthracene     | 21.26 | 228 | 50193  | 4.33  | ng/ul | 94     |
| 85) Chrysene               | 21.32 | 228 | 64611  | 5.87  | ng/ul | 96     |
| 88) Benzo(b)fluoranthene   | 22.84 | 252 | 55466m | 5.41  | ng/ul |        |
| 89) Benzo(k)fluoranthene   | 22.87 | 252 | 16990m | 1.74  | ng/ul |        |
| 91) Benzo(a)pyrene         | 23.41 | 252 | 47664  | 4.91  | ng/ul | 97     |
| 92) Indeno(1,2,3-cd)pyrene | 25.76 | 276 | 28314  | 2.63  | ng/ul | 96     |
| 94) Benzo(g,h,i)perylene   | 26.45 | 276 | 24445  | 2.71  | ng/ul | 97     |

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

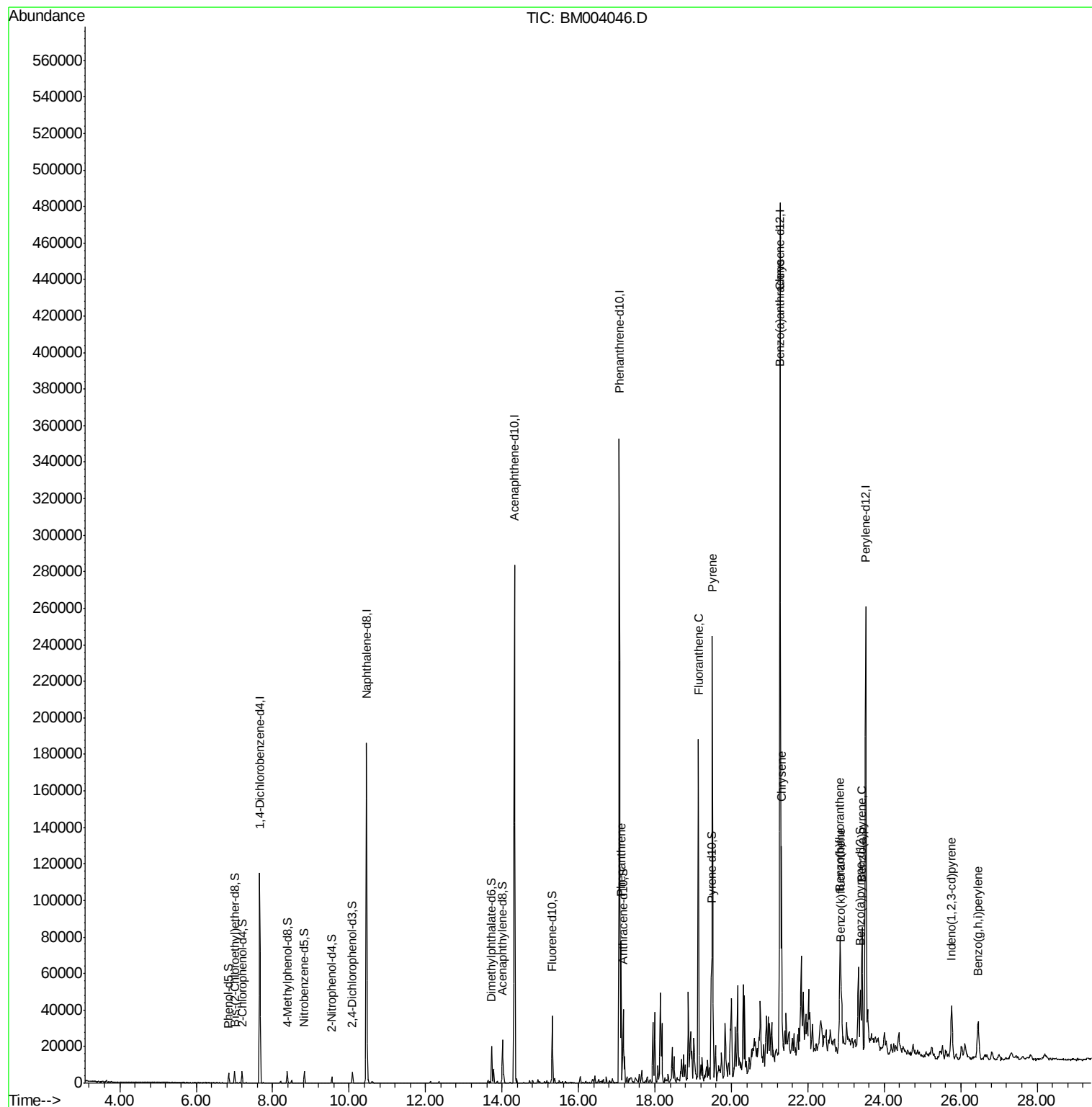
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM011616\  
Data File : BM004046.D  
Acq On : 15 Jan 2016 14:11  
Operator : SJ/UM  
Sample : H1100-04DL 10X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

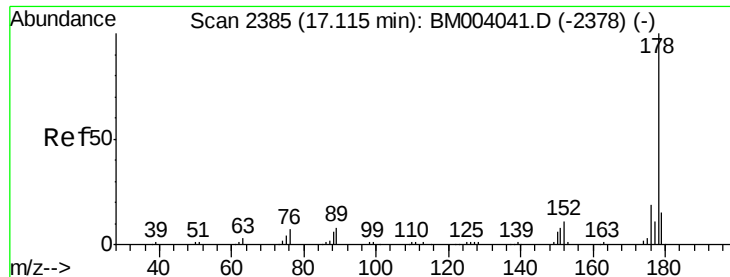
Instrument :  
BNA\_M  
ClientSampleId :  
BC985DL

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Quant Time: Jan 16 01:25:27 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM010116.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Jan 16 00:22:06 2016  
Response via : Initial Calibration





#70

Phenanthrene

Concen: 4.12 ng/ul

RT: 17.12 min Scan# 2385

Delta R.T. 0.00 min

Lab File: BM004046.D

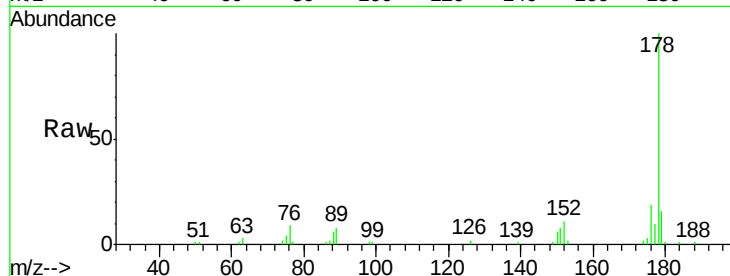
Acq: 15 Jan 2016 14:11

Instrument :

BNA\_M

ClientSampleId :

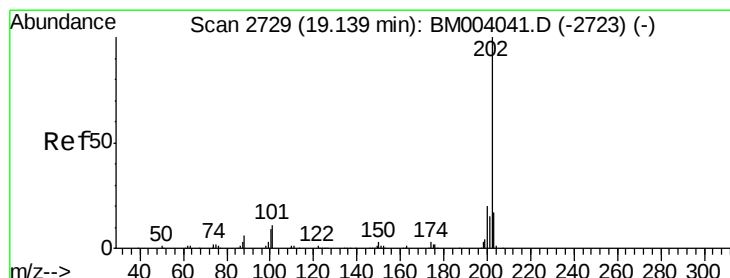
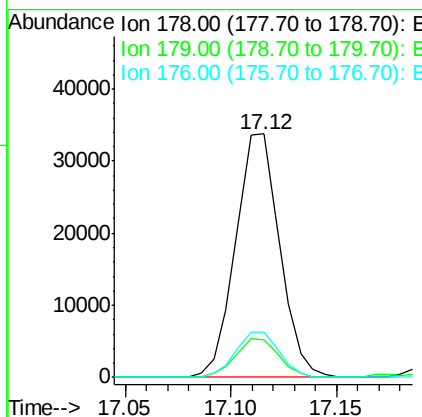
BC985DL



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 48950 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.6  | 12.2  | 18.4  |
| 176       | 18.7  | 15.6  | 23.4  |

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#77

Fluoranthene

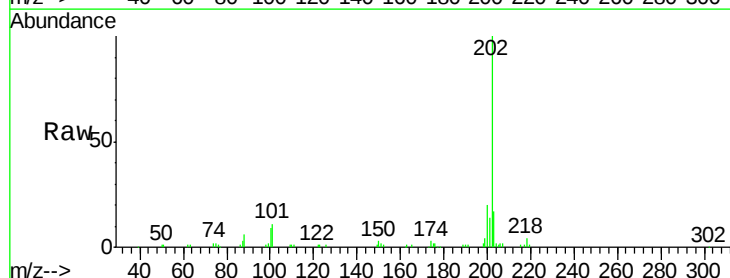
Concen: 8.18 ng/ul

RT: 19.14 min Scan# 2729

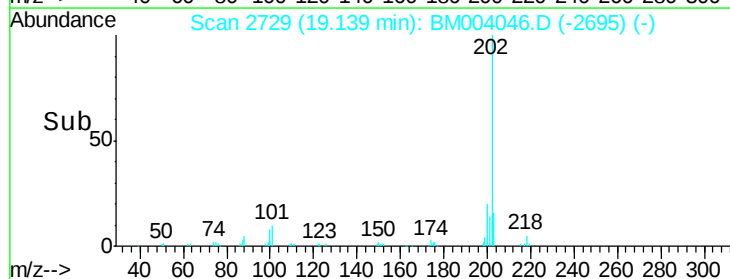
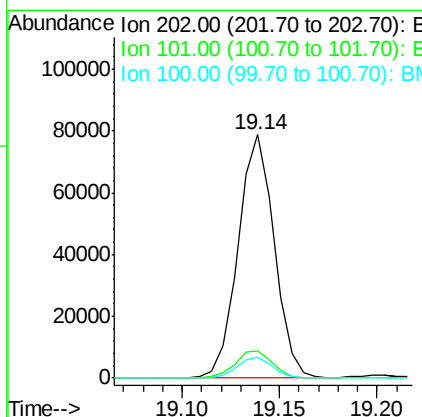
Delta R.T. 0.00 min

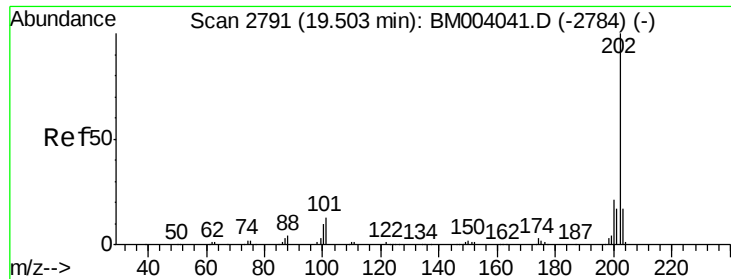
Lab File: BM004046.D

Acq: 15 Jan 2016 14:11



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 101013 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.2  | 8.8   | 13.2   |
| 100       | 8.7   | 6.6   | 9.8    |





#80

Pyrene

Concen: 11.22 ng/ul

RT: 19.50 min Scan# 2791

Delta R.T. 0.00 min

Lab File: BM004046.D

Acq: 15 Jan 2016 14:11

Instrument :

BNA\_M

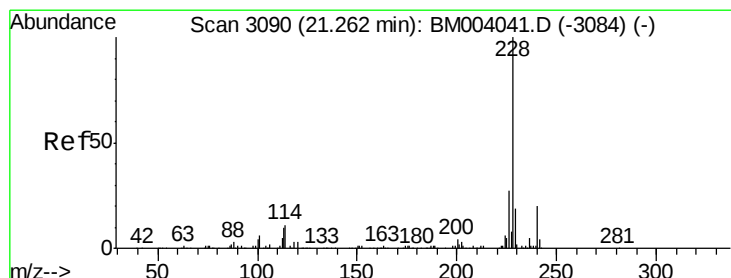
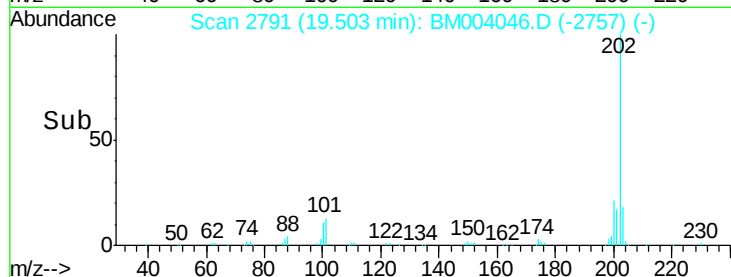
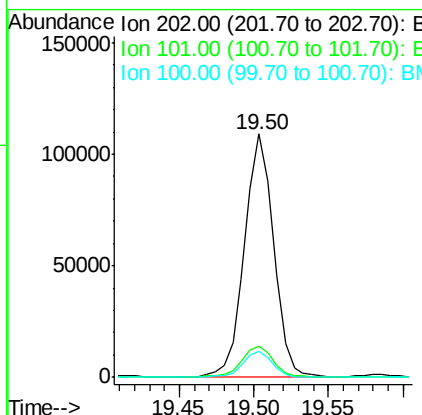
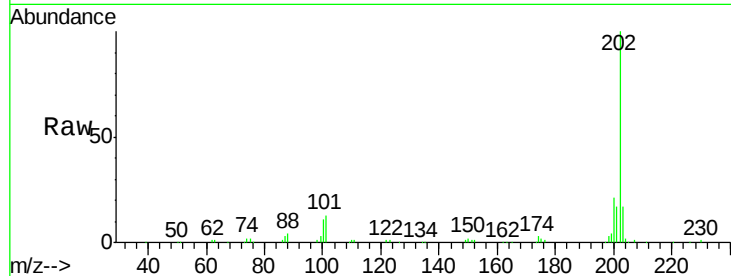
ClientSampled :

BC985DL

|     |       |      |       |        |
|-----|-------|------|-------|--------|
| Tgt | Ion   | 202  | Resp: | 148162 |
| Ion | Ratio |      | Lower | Upper  |
| 202 | 100   |      |       |        |
| 101 | 13.1  | 10.2 | 15.2  |        |
| 100 | 10.6  | 8.5  | 12.7  |        |

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#83

Benzo(a)anthracene

Concen: 4.33 ng/ul

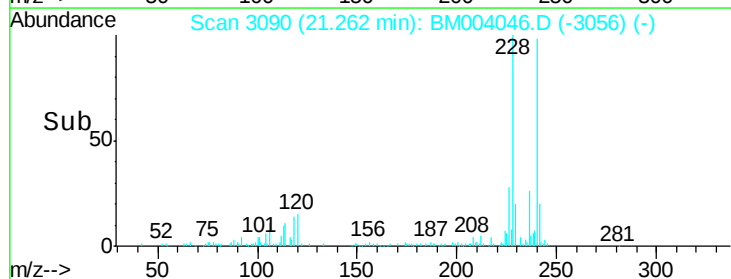
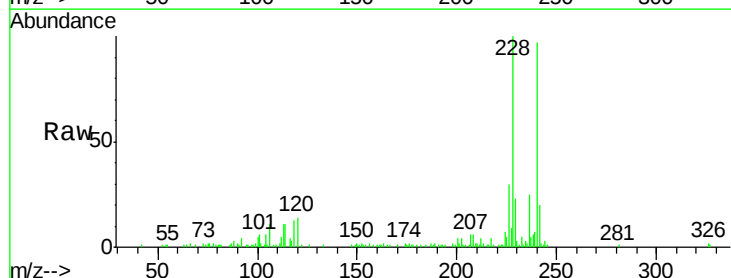
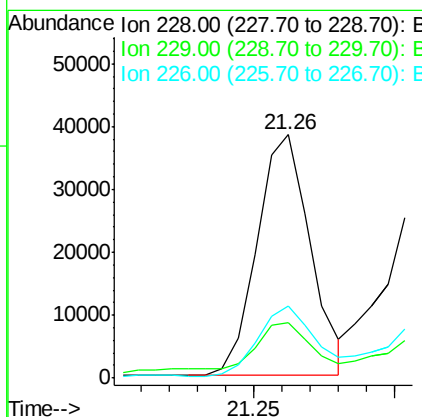
RT: 21.26 min Scan# 3090

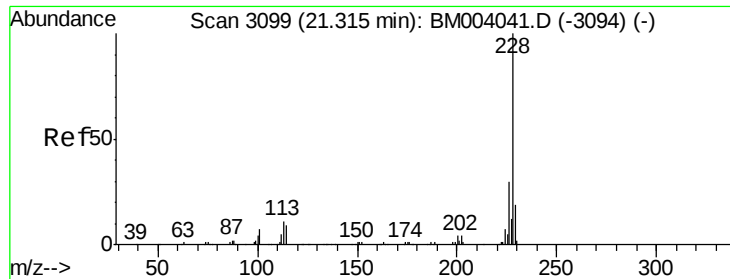
Delta R.T. 0.00 min

Lab File: BM004046.D

Acq: 15 Jan 2016 14:11

|     |       |      |       |       |
|-----|-------|------|-------|-------|
| Tgt | Ion   | 228  | Resp: | 50193 |
| Ion | Ratio |      | Lower | Upper |
| 228 | 100   |      |       |       |
| 229 | 22.8  | 15.7 | 23.5  |       |
| 226 | 29.7  | 21.8 | 32.6  |       |





#85

Chrysene

Concen: 5.87 ng/ul

RT: 21.32 min Scan# 3099

Delta R.T. 0.00 min

Lab File: BM004046.D

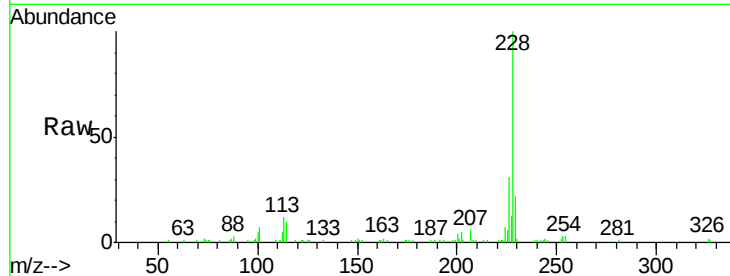
Acq: 15 Jan 2016 14:11

Instrument :

BNA\_M

ClientSampled :

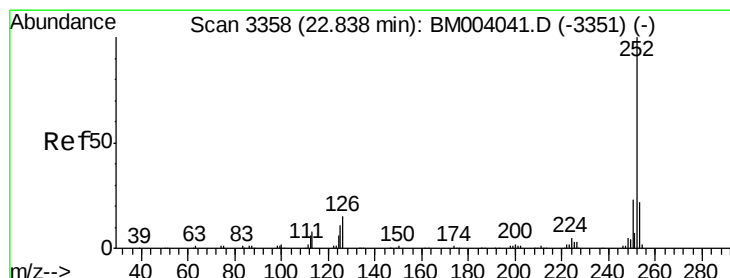
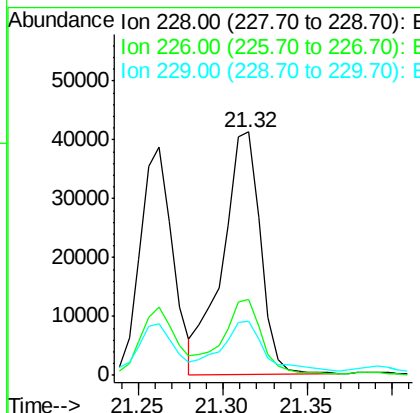
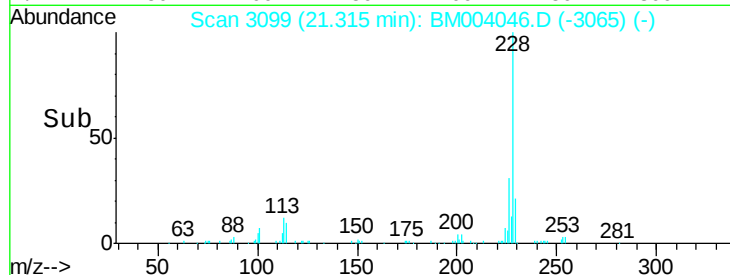
BC985DL



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 64611 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.3  | 24.0  | 36.0  |
| 229       | 22.3  | 15.6  | 23.4  |

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#88

Benzo(b)fluoranthene

Concen: 5.41 ng/ul m

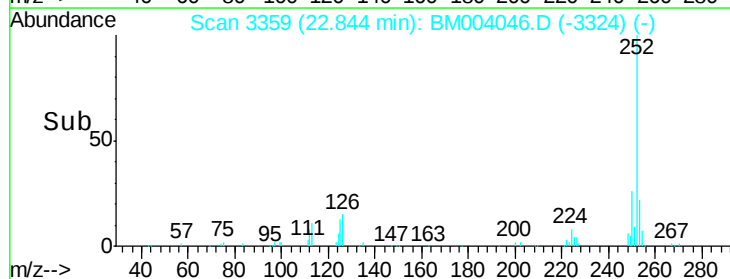
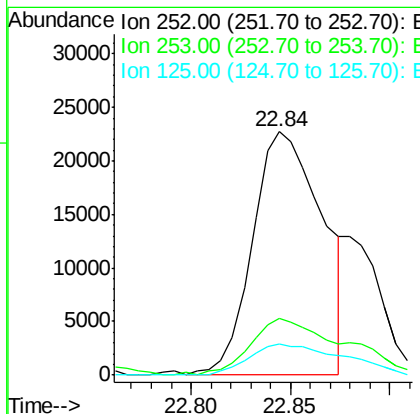
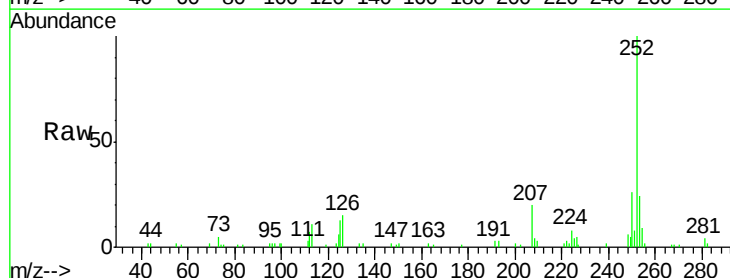
RT: 22.84 min Scan# 3359

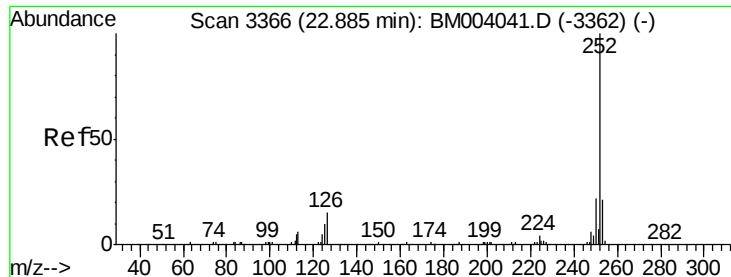
Delta R.T. 0.01 min

Lab File: BM004046.D

Acq: 15 Jan 2016 14:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 55466 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.5  | 17.5  | 26.3  |
| 125       | 12.7  | 8.5   | 12.7  |





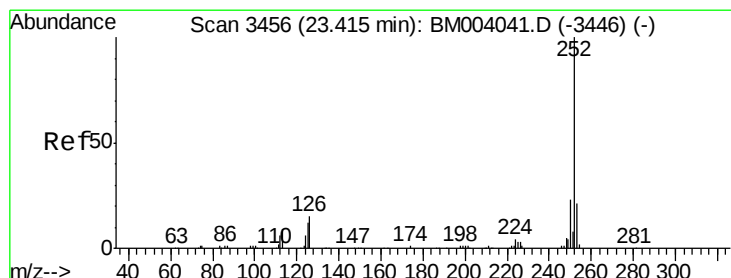
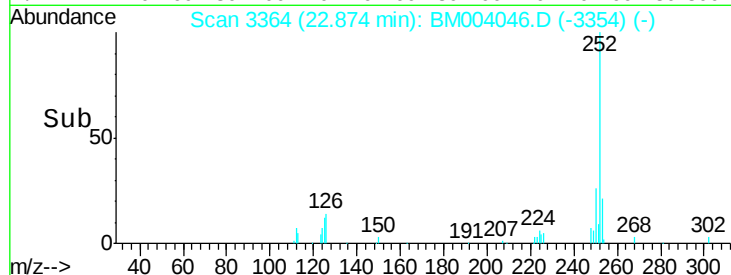
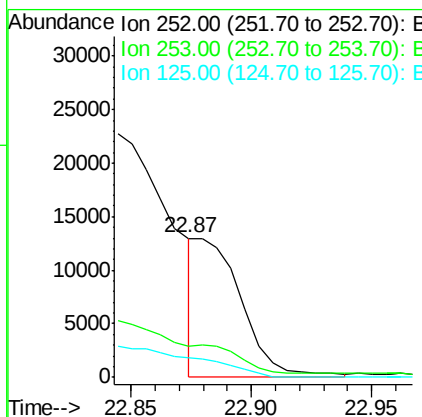
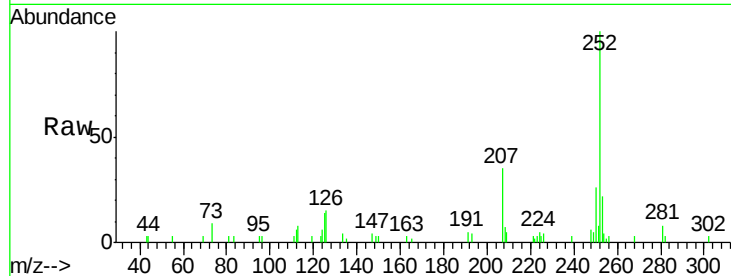
#89  
Benzo(k)fluoranthene  
Concen: 1.74 ng/ul m  
RT: 22.87 min Scan# 3364  
Delta R.T. -0.01 min  
Lab File: BM004046.D  
Acq: 15 Jan 2016 14:11

Instrument :  
BNA\_M  
ClientSampleId :  
BC985DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.3  | 25.9  |
| 125     | 13.7  | 8.2   | 12.2  |

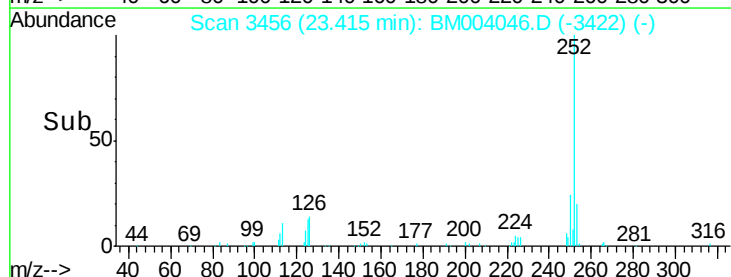
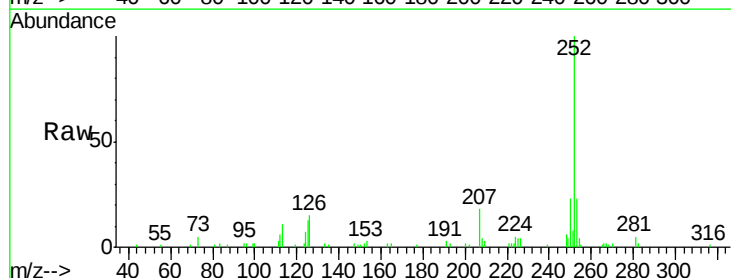
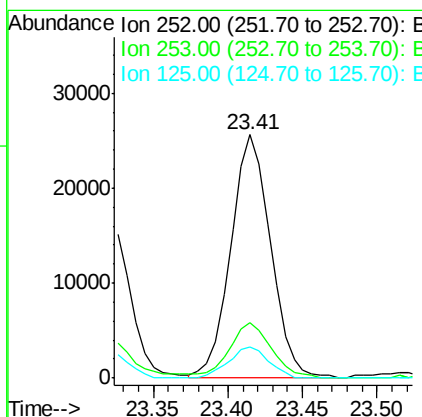
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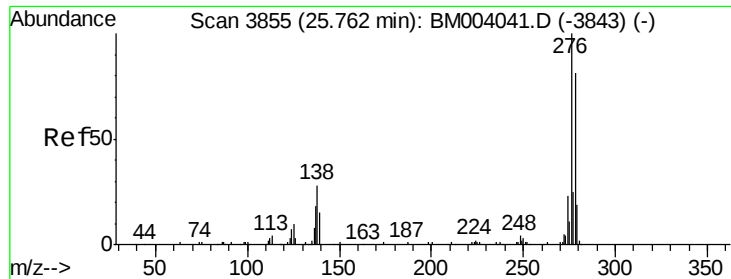
Sohil  
1/16/2016 5:01:01 AM



#91  
Benzo(a)pyrene  
Concen: 4.91 ng/ul  
RT: 23.41 min Scan# 3456  
Delta R.T. 0.00 min  
Lab File: BM004046.D  
Acq: 15 Jan 2016 14:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 17.2  | 25.8  |
| 125     | 12.6  | 9.0   | 13.6  |





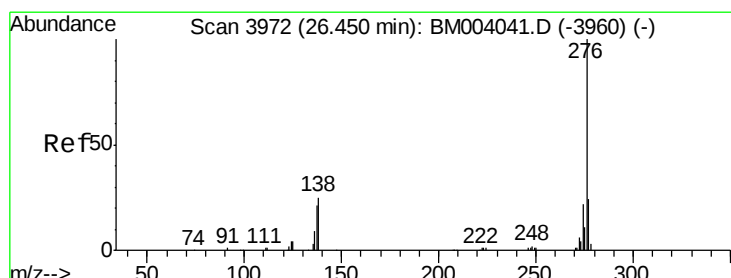
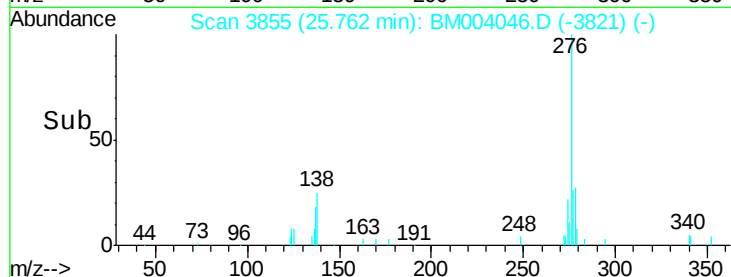
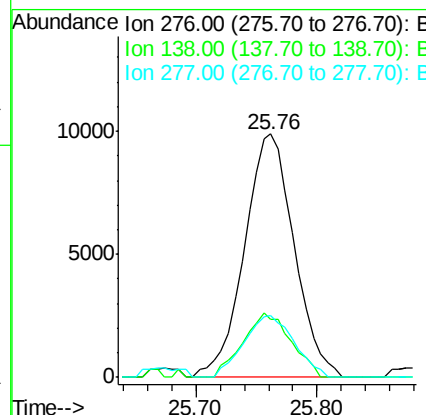
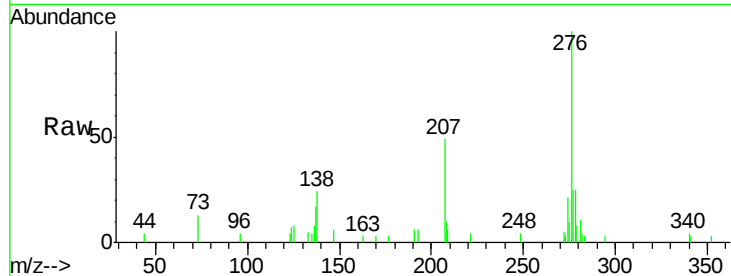
#92  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.63 ng/ul  
 RT: 25.76 min Scan# 3855  
 Delta R.T. 0.00 min  
 Lab File: BM004046.D  
 Acq: 15 Jan 2016 14:11

Instrument :  
 BNA\_M  
 ClientSampled :  
 BC985DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.0  | 22.3  | 33.5  |
| 277     | 25.2  | 20.2  | 30.2  |

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#94  
 Benzo(g,h,i)perylene  
 Concen: 2.71 ng/ul  
 RT: 26.45 min Scan# 3972  
 Delta R.T. 0.00 min  
 Lab File: BM004046.D  
 Acq: 15 Jan 2016 14:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.8  | 18.9  | 28.3  |
| 277     | 24.5  | 19.2  | 28.8  |

