

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM011616\  
 Data File : BM004056.D  
 Acq On : 15 Jan 2016 20:13  
 Operator : SJ/UM  
 Sample : H1100-18  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC9G6

Manual Integrations  
 APPROVED

Sohil  
 1/16/2016 5:01:26 AM

Quant Time: Jan 16 03:18:05 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM010116.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Jan 16 03:00:58 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 45710    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.45 | 136  | 211324   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.32 | 164  | 117581   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.07 | 188  | 233370   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.27 | 240  | 187264   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.51 | 264  | 187051   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.13  | 96  | 3601   | 3.52  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.85  | 99  | 84100  | 22.16 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.00  | 67  | 52754  | 24.59 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.20  | 132 | 76568  | 24.55 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.37  | 113 | 53691  | 17.46 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.82  | 128 | 39875  | 25.05 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.55  | 143 | 43843  | 25.13 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.08 | 165 | 74059  | 23.89 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.59 | 131 | 83771  | 20.47 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.73 | 166 | 242818 | 26.30 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.01 | 160 | 299355 | 26.62 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.54 | 143 | 25322  | 15.27 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.32 | 176 | 210440 | 26.88 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.45 | 200 | 20938  | 15.91 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.17 | 188 | 294426 | 27.28 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.47 | 212 | 277914 | 28.66 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.37 | 264 | 264120 | 28.27 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |        |             | Qvalue |
|----------------------------|-------|-----|--------|-------------|--------|
| 45) Dimethylphthalate      | 13.78 | 163 | 97998  | 10.41 ng/ul | 100    |
| 48) Acenaphthylene         | 14.04 | 152 | 13436  | 1.09 ng/ul  | 97     |
| 50) Acenaphthene           | 14.39 | 153 | 16006  | 1.96 ng/ul  | 97     |
| 59) Fluorene               | 15.37 | 166 | 20430  | 2.26 ng/ul  | 99     |
| 70) Phenanthrene           | 17.12 | 178 | 286268 | 21.81 ng/ul | 99     |
| 72) Anthracene             | 17.20 | 178 | 77246  | 5.74 ng/ul  | 100    |
| 75) Carbazole              | 17.48 | 167 | 35013  | 2.96 ng/ul  | 98     |
| 77) Fluoranthene           | 19.14 | 202 | 448004 | 32.85 ng/ul | 98     |
| 80) Pyrene                 | 19.50 | 202 | 405930 | 31.93 ng/ul | 98     |
| 83) Benzo(a)anthracene     | 21.26 | 228 | 198193 | 17.77 ng/ul | 98     |
| 85) Chrysene               | 21.32 | 228 | 205610 | 19.40 ng/ul | 97     |
| 88) Benzo(b)fluoranthene   | 22.84 | 252 | 233057 | 20.49 ng/ul | 98     |
| 89) Benzo(k)fluoranthene   | 22.88 | 252 | 75819m | 7.01 ng/ul  |        |
| 91) Benzo(a)pyrene         | 23.41 | 252 | 172847 | 16.03 ng/ul | 97     |
| 92) Indeno(1,2,3-cd)pyrene | 25.76 | 276 | 103419 | 8.67 ng/ul  | 96     |
| 93) Dibenzo(a,h)anthracene | 25.76 | 278 | 31587m | 3.15 ng/ul  |        |
| 94) Benzo(g,h,i)perylene   | 26.46 | 276 | 76799  | 7.67 ng/ul  | 98     |

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

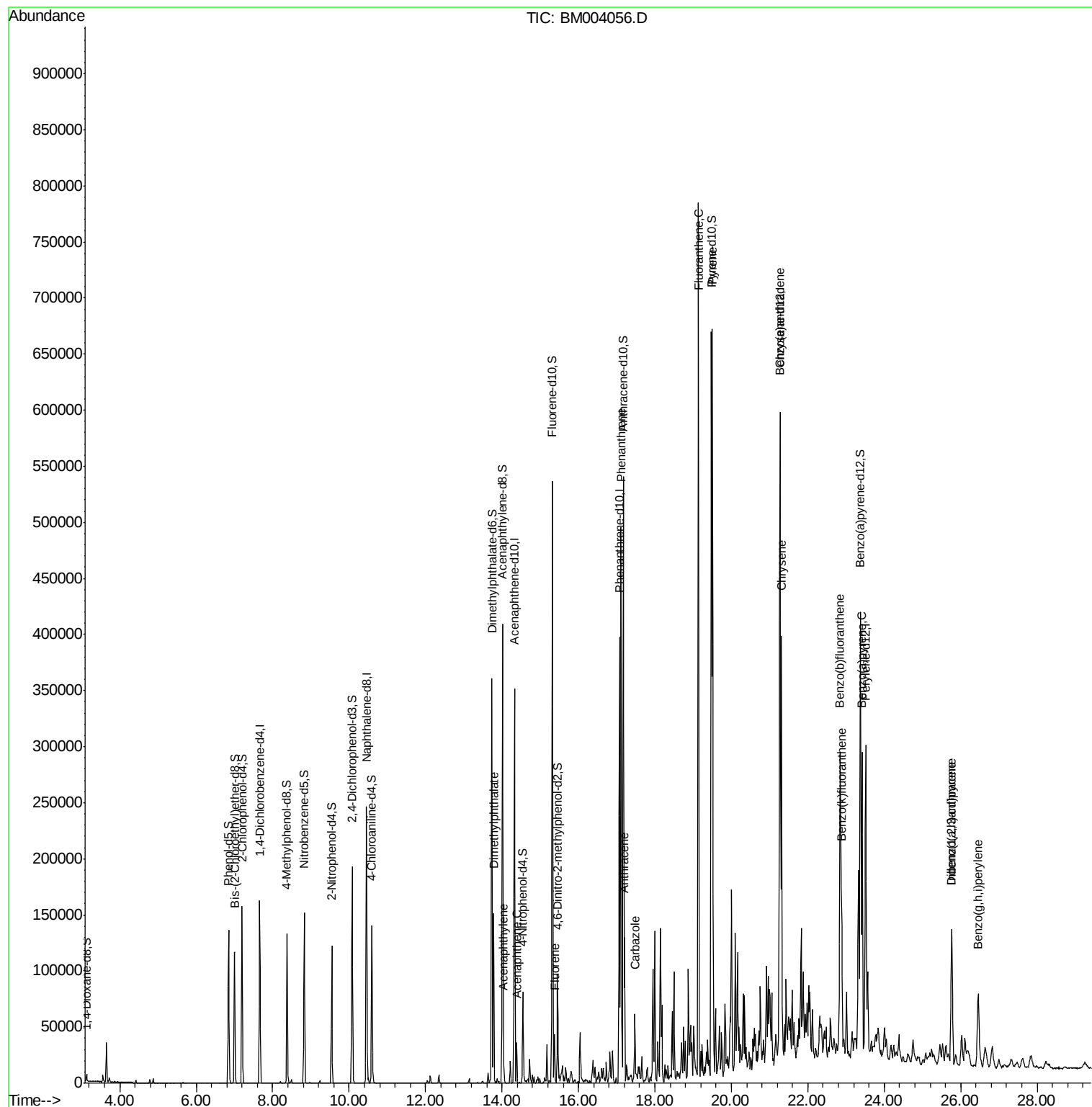
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM011616\  
Data File : BM004056.D  
Acq On : 15 Jan 2016 20:13  
Operator : SJ/UM  
Sample : H1100-18  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

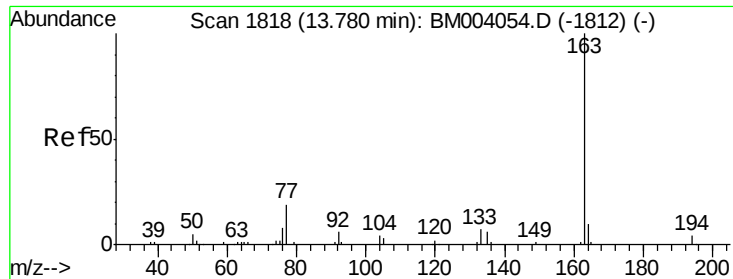
Instrument :  
BNA\_M  
ClientSampleId :  
BC9G6

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Quant Time: Jan 16 03:18:05 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM010116.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Jan 16 03:00:58 2016  
Response via : Initial Calibration





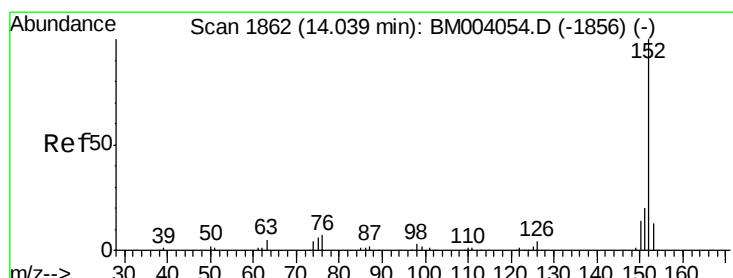
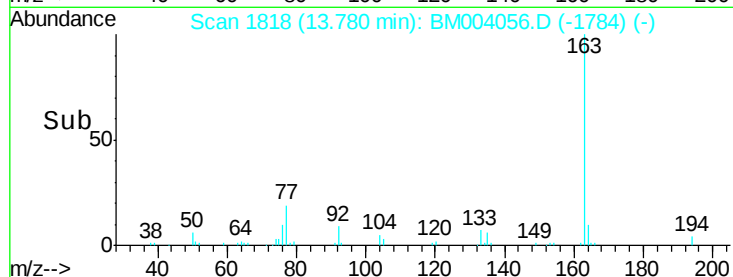
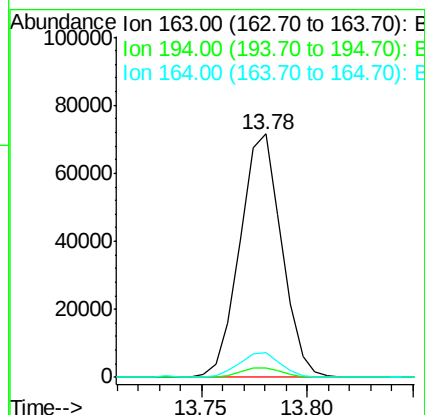
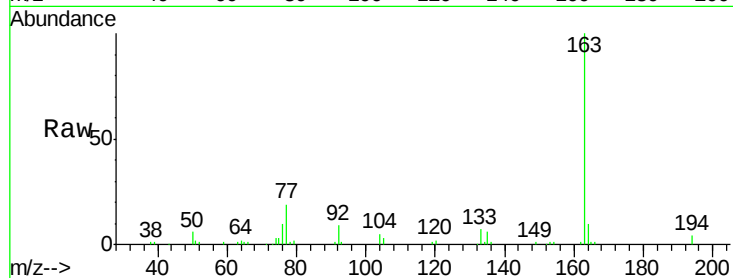
#45  
Dimethylphthalate  
Concen: 10.41 ng/ul  
RT: 13.78 min Scan# 1818  
Delta R.T. -0.00 min  
Lab File: BM004056.D  
Acq: 15 Jan 2016 20:13

Instrument :  
BNA\_M  
ClientSampleId :  
BC9G6

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 97998 |       |       |
| 194     | 4.0   |       | 3.2   | 4.8   |
| 164     | 9.9   |       | 7.8   | 11.8  |

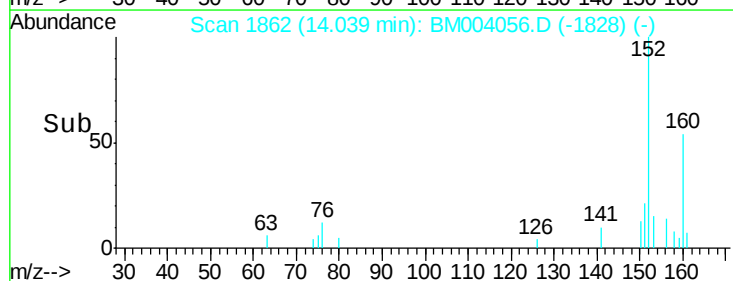
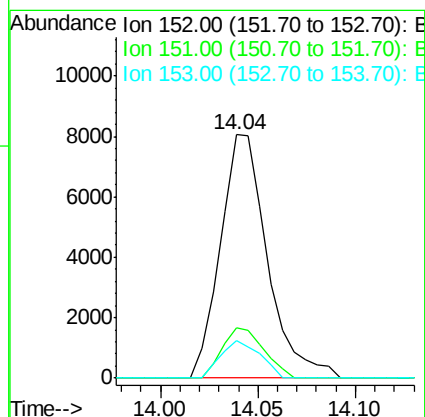
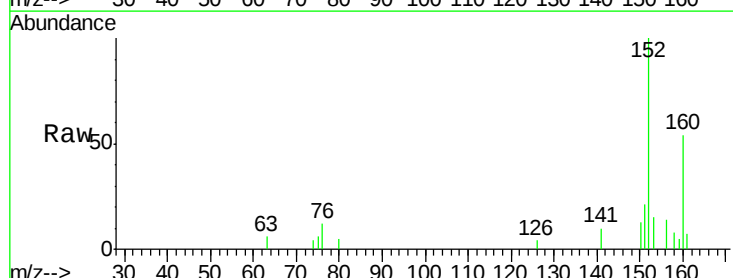
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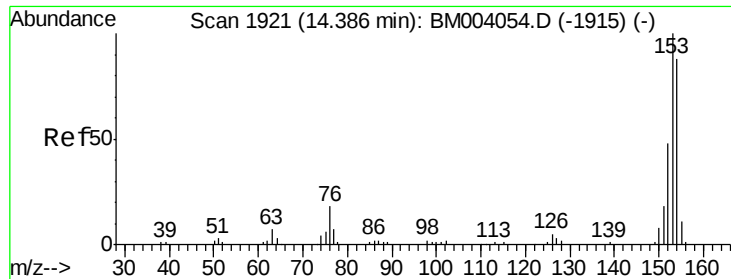
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#48  
Acenaphthylene  
Concen: 1.09 ng/ul  
RT: 14.04 min Scan# 1862  
Delta R.T. -0.00 min  
Lab File: BM004056.D  
Acq: 15 Jan 2016 20:13

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 152     | 100   | 13436 |       |       |
| 151     | 20.5  |       | 15.7  | 23.5  |
| 153     | 15.3  |       | 10.5  | 15.7  |





#50

Acenaphthene

Concen: 1.96 ng/ul

RT: 14.39 min Scan# 1921

Delta R.T. -0.00 min

Lab File: BM004056.D

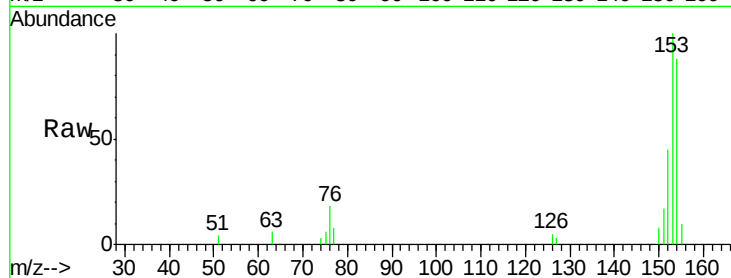
Acq: 15 Jan 2016 20:13

Instrument :

BNA\_M

ClientSampled :

BC9G6



Tgt Ion:153 Resp: 16006

Ion Ratio Lower Upper

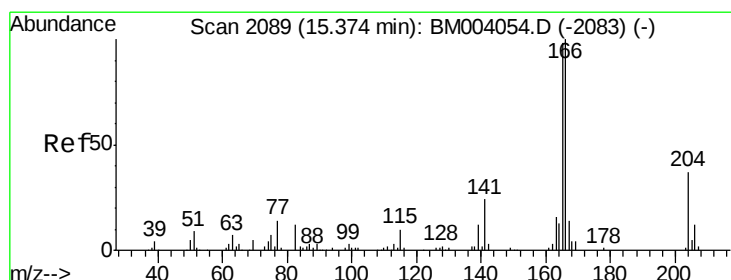
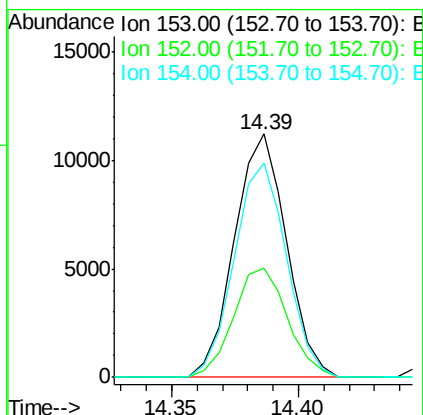
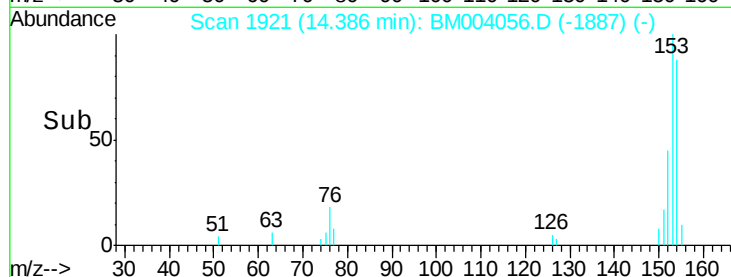
153 100

152 45.1 38.3 57.5

154 87.9 71.8 107.8

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#59

Fluorene

Concen: 2.26 ng/ul

RT: 15.37 min Scan# 2089

Delta R.T. -0.00 min

Lab File: BM004056.D

Acq: 15 Jan 2016 20:13

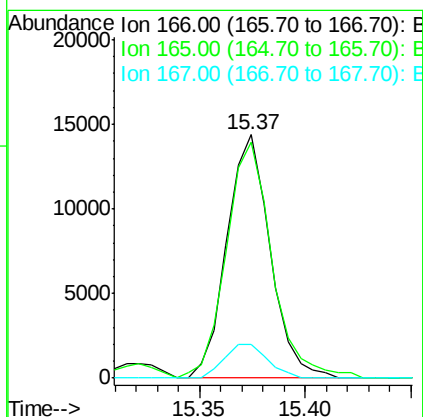
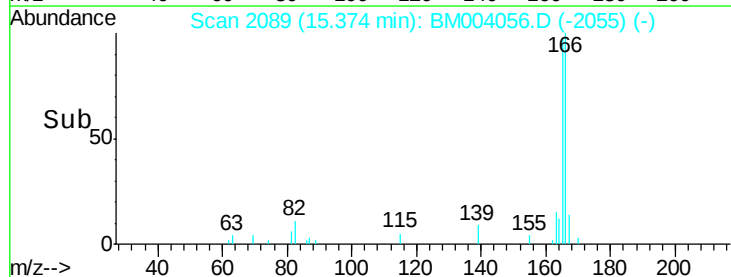
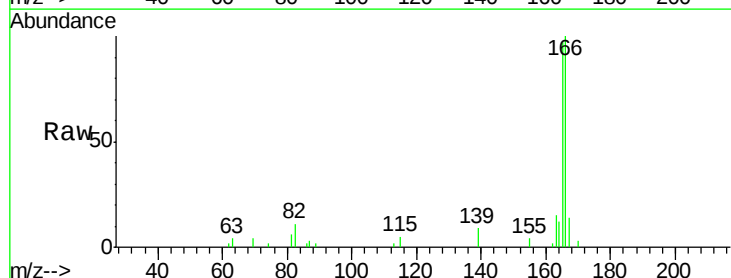
Tgt Ion:166 Resp: 20430

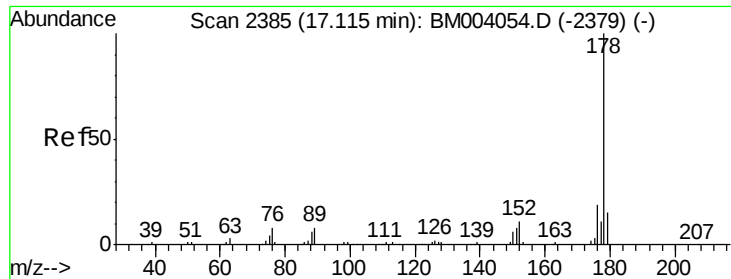
Ion Ratio Lower Upper

166 100

165 96.8 78.5 117.7

167 13.6 10.7 16.1





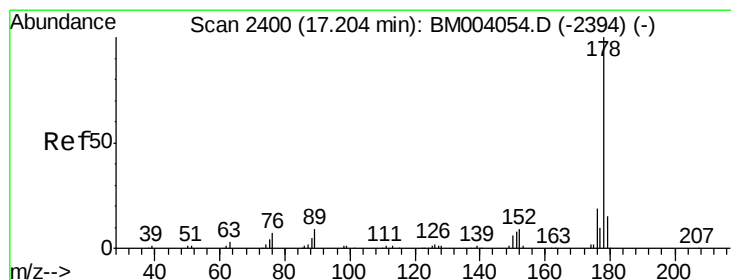
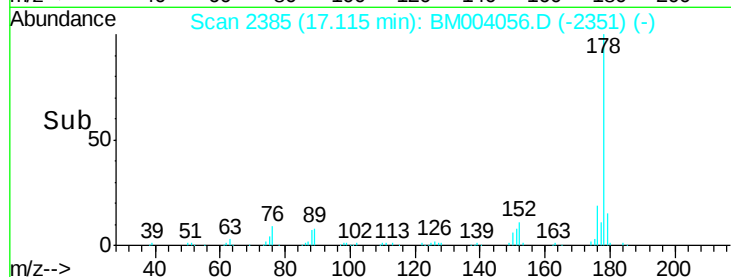
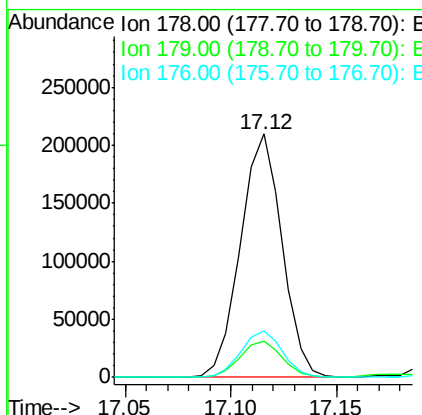
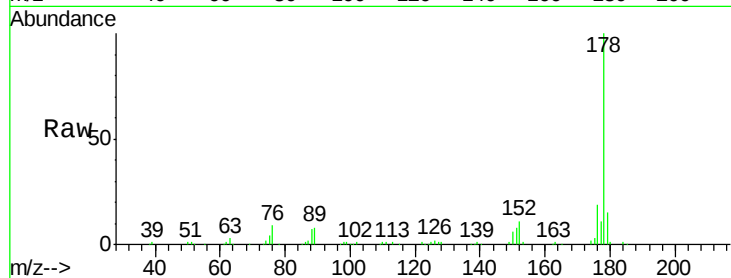
#70  
Phenanthrene  
Concen: 21.81 ng/ul  
RT: 17.12 min Scan# 2385  
Delta R.T. -0.00 min  
Lab File: BM004056.D  
Acq: 15 Jan 2016 20:13

Instrument :  
BNA\_M  
ClientSampleId :  
BC9G6

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 286268 |       |       |
| 179     | 15.1  | 12.2   | 18.4  |       |
| 176     | 19.2  | 15.6   | 23.4  |       |

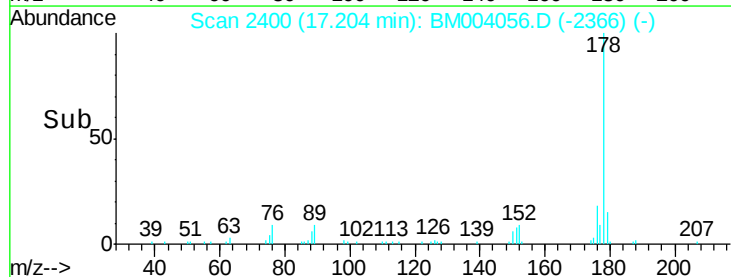
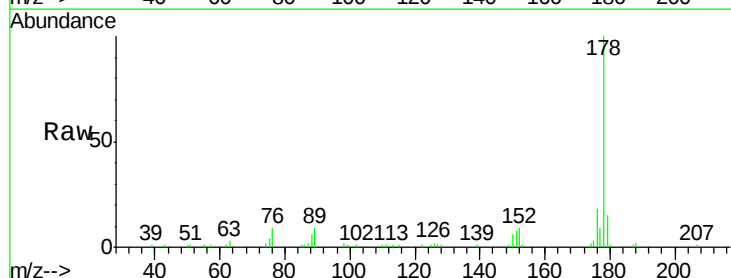
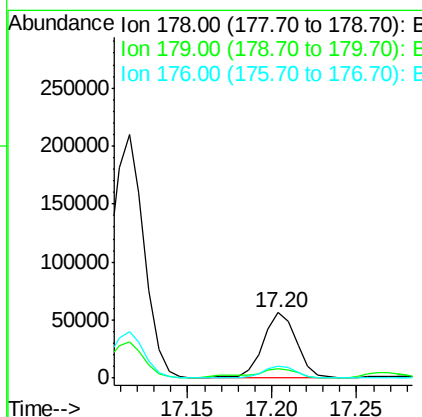
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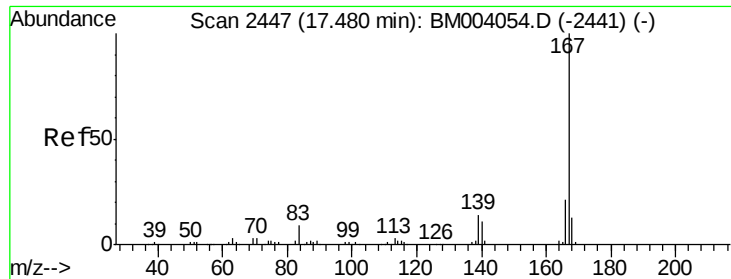
Sohil  
1/16/2016 5:01:26 AM



#72  
Anthracene  
Concen: 5.74 ng/ul  
RT: 17.20 min Scan# 2400  
Delta R.T. -0.00 min  
Lab File: BM004056.D  
Acq: 15 Jan 2016 20:13

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 77246 |       |       |
| 179     | 15.1  | 12.1  | 18.1  |       |
| 176     | 18.2  | 14.8  | 22.2  |       |





#75

Carbazole

Concen: 2.96 ng/ul

RT: 17.48 min Scan# 2447

Delta R.T. -0.00 min

Lab File: BM004056.D

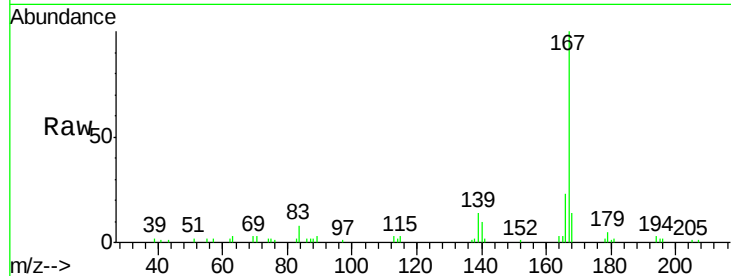
Acq: 15 Jan 2016 20:13

Instrument :

BNA\_M

ClientSampleId :

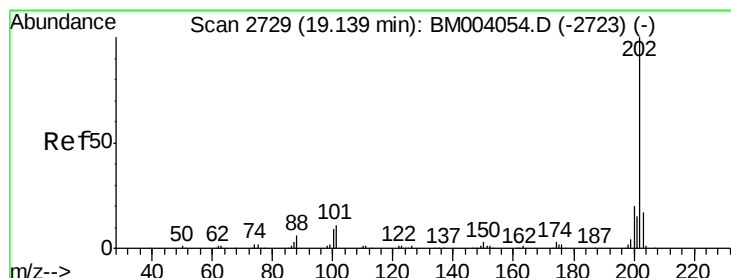
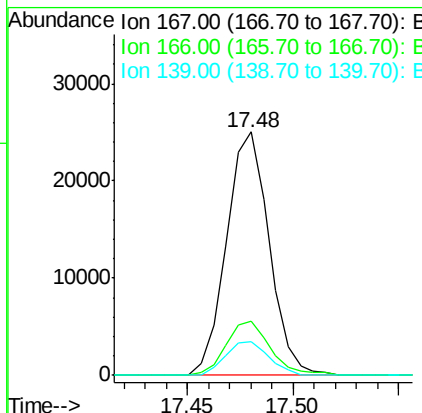
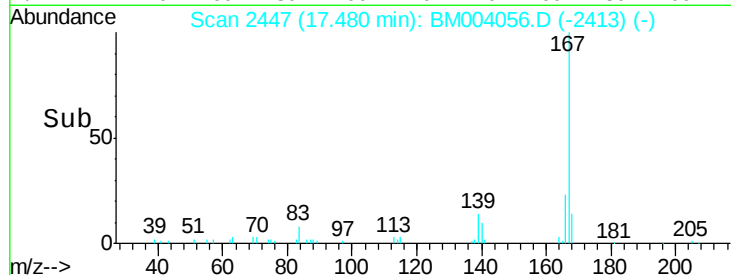
BC9G6



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 167   | Resp: | 35013 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 22.5  | 17.0  | 25.6  |
| 139       | 13.9  | 11.0  | 16.4  |

Manual Integrations  
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#77

Fluoranthene

Concen: 32.85 ng/ul

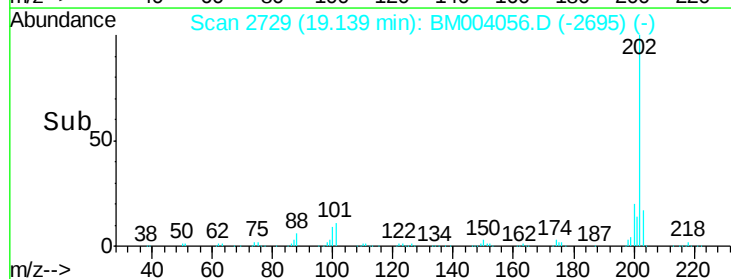
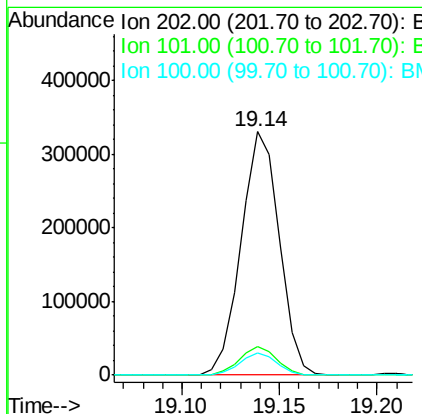
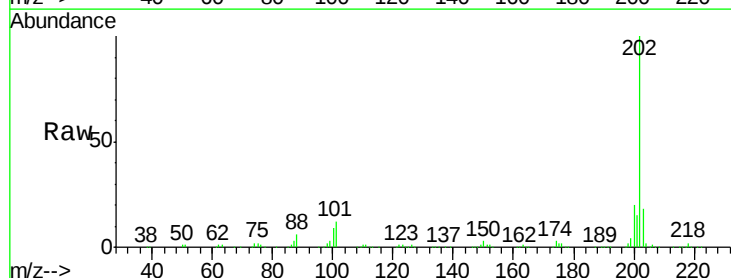
RT: 19.14 min Scan# 2729

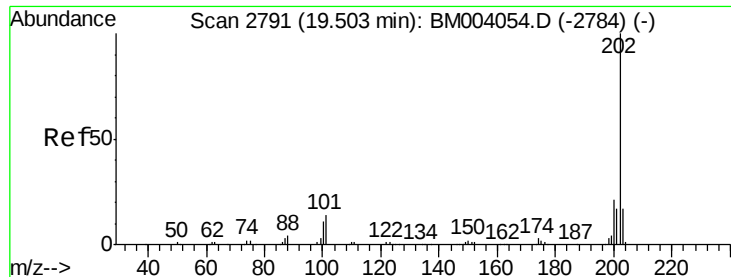
Delta R.T. -0.00 min

Lab File: BM004056.D

Acq: 15 Jan 2016 20:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 448004 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.8  | 8.8   | 13.2   |
| 100       | 9.0   | 6.6   | 9.8    |





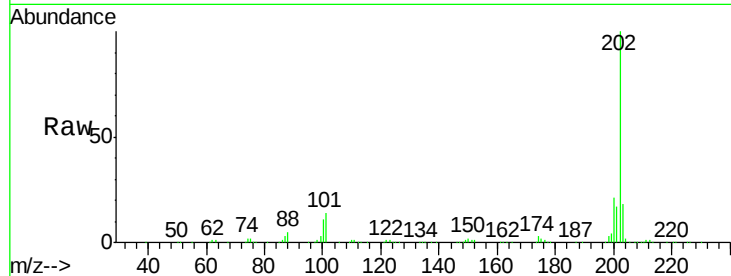
#80  
 Pyrene  
 Concen: 31.93 ng/u1  
 RT: 19.50 min Scan# 2791  
 Delta R.T. -0.00 min  
 Lab File: BM004056.D  
 Acq: 15 Jan 2016 20:13

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC9G6

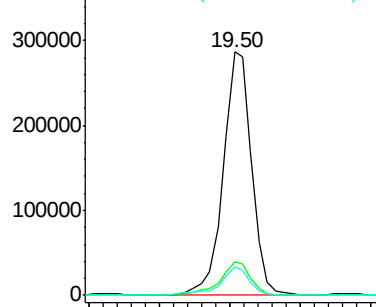
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 405930 |       |       |
| 101     | 13.7  | 10.2   | 15.2  |       |
| 100     | 11.5  | 8.5    | 12.7  |       |

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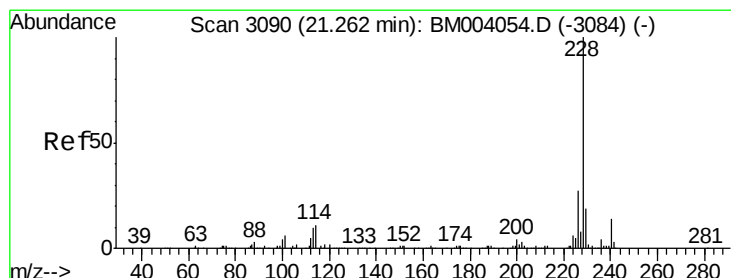
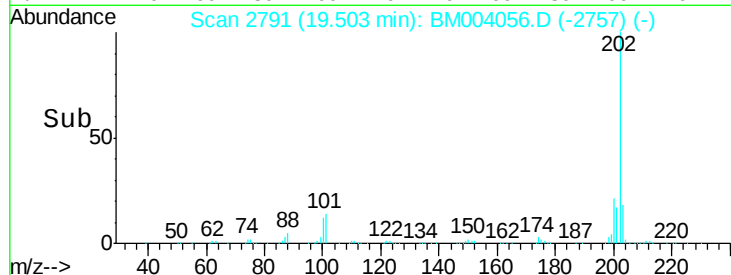
Sohil  
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Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B

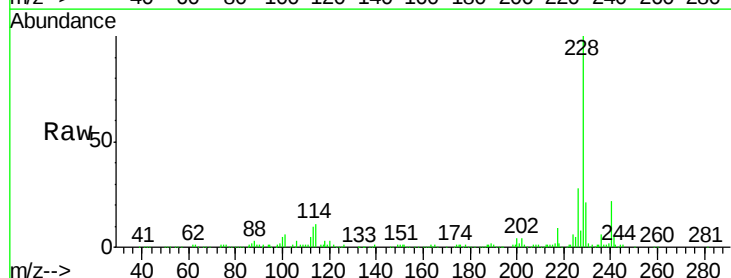


Time--> 19.40 19.45 19.50 19.55

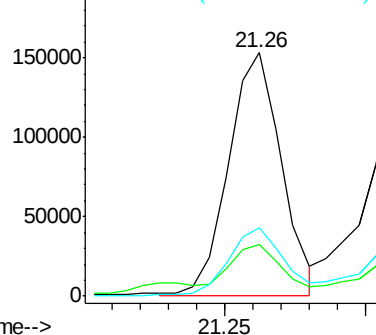


#83  
 Benzo(a)anthracene  
 Concen: 17.77 ng/u1  
 RT: 21.26 min Scan# 3090  
 Delta R.T. -0.00 min  
 Lab File: BM004056.D  
 Acq: 15 Jan 2016 20:13

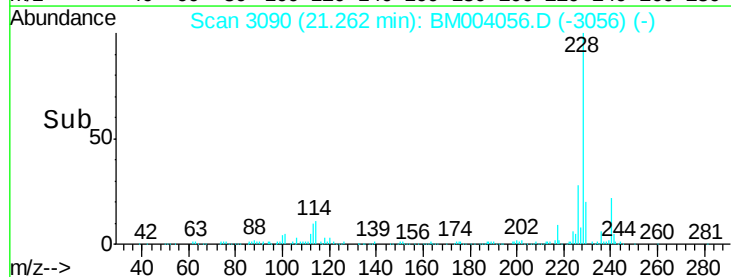
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 198193 |       |       |
| 229     | 21.0  | 15.7   | 23.5  |       |
| 226     | 28.1  | 21.8   | 32.6  |       |

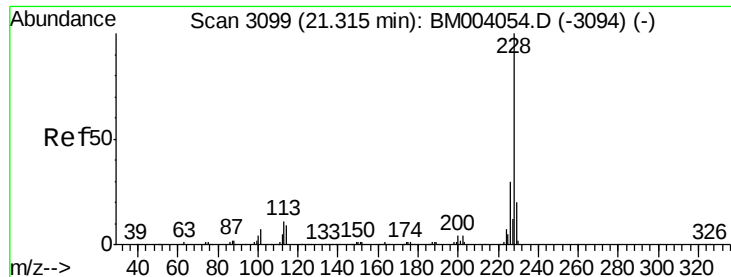


Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 229.00 (228.70 to 229.70): E  
 Ion 226.00 (225.70 to 226.70): E



Time--> 21.25





#85

Chrysene

Concen: 19.40 ng/ul

RT: 21.32 min Scan# 3099

Delta R.T. -0.00 min

Lab File: BM004056.D

Acq: 15 Jan 2016 20:13

Instrument :

BNA\_M

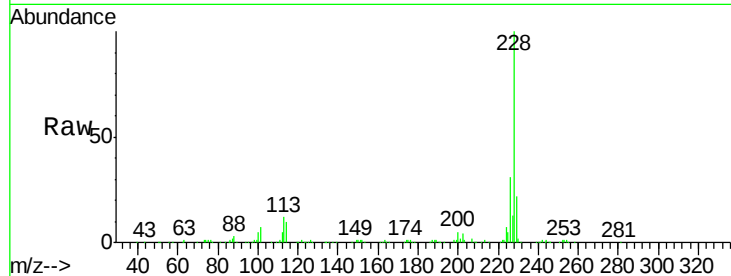
ClientSampleId :

BC9G6

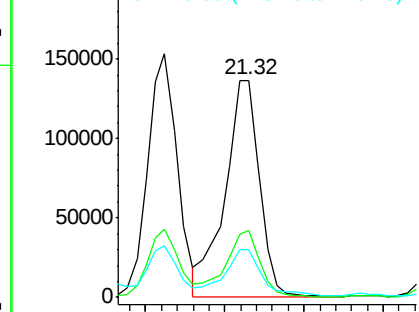
|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 228  | Resp: | 205610 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 30.7 | 24.0  | 36.0   |
| 229       | 22.0 | 15.6  | 23.4   |

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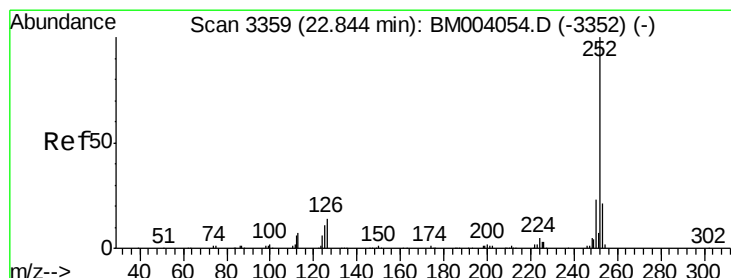
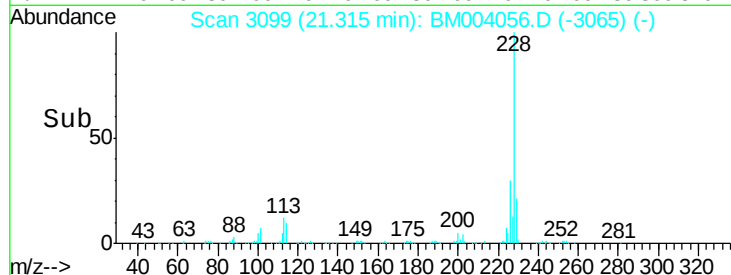
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Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



Time-->



#88

Benzo(b)fluoranthene

Concen: 20.49 ng/ul

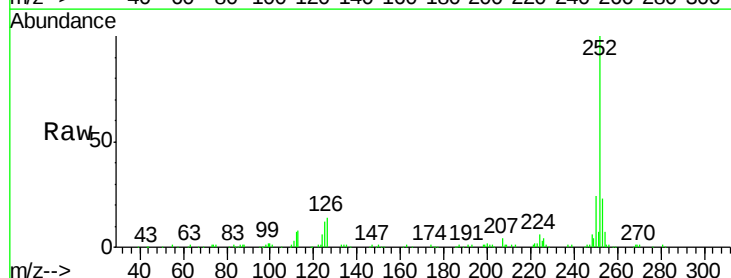
RT: 22.84 min Scan# 3359

Delta R.T. -0.00 min

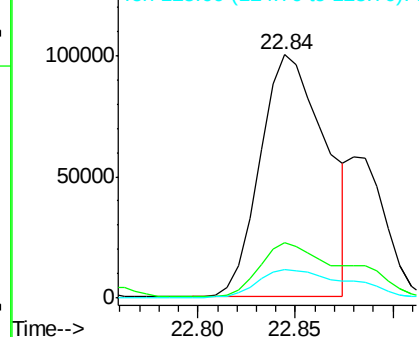
Lab File: BM004056.D

Acq: 15 Jan 2016 20:13

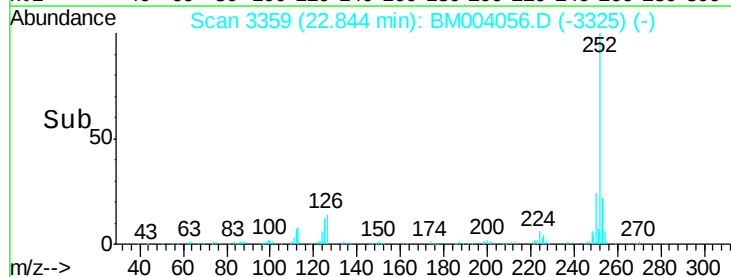
|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 252  | Resp: | 233057 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 22.6 | 17.5  | 26.3   |
| 125       | 11.6 | 8.5   | 12.7   |

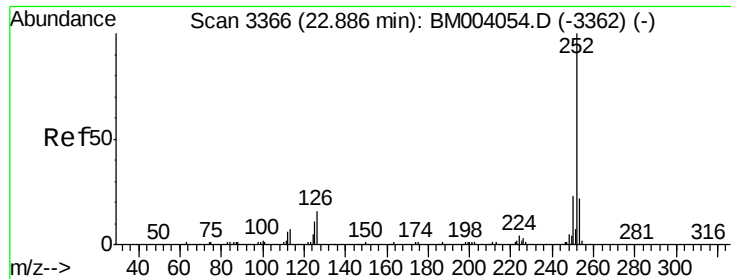


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



Time-->





#89

Benzo(k)fluoranthene

Concen: 7.01 ng/ul m

RT: 22.88 min Scan# 3365

Delta R.T. -0.01 min

Lab File: BM004056.D

Acq: 15 Jan 2016 20:13

Instrument :

BNA\_M

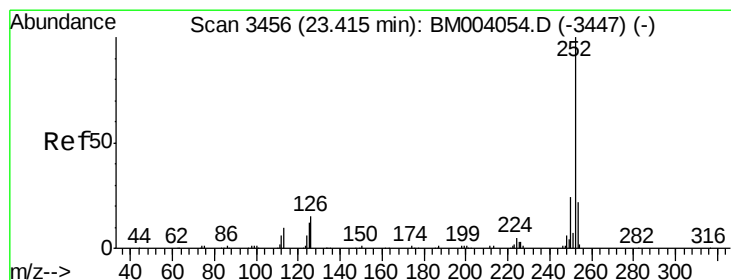
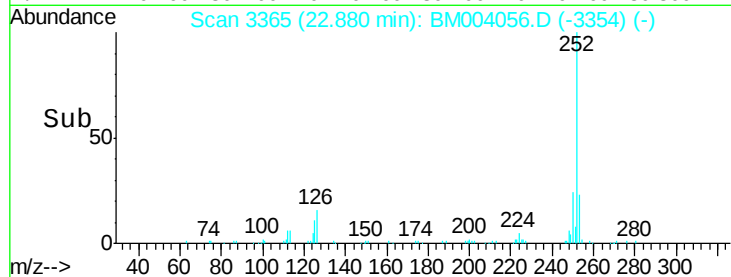
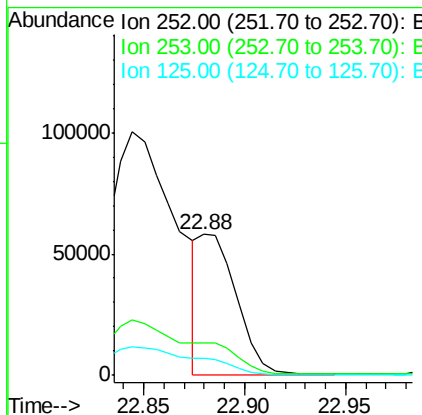
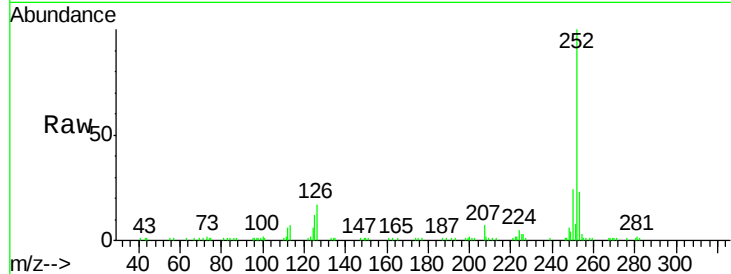
ClientSampled :

BC9G6

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 75819 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 17.3  | 25.9  |
| 125       | 11.9  | 8.2   | 12.2  |

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#91

Benzo(a)pyrene

Concen: 16.03 ng/ul

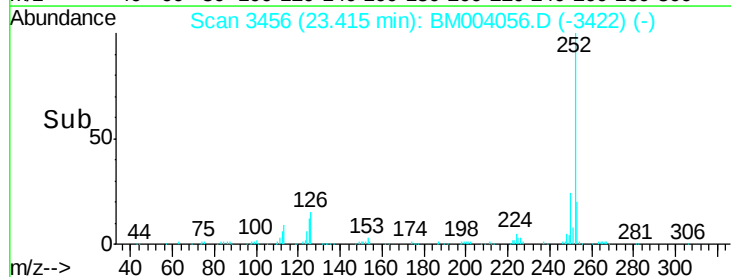
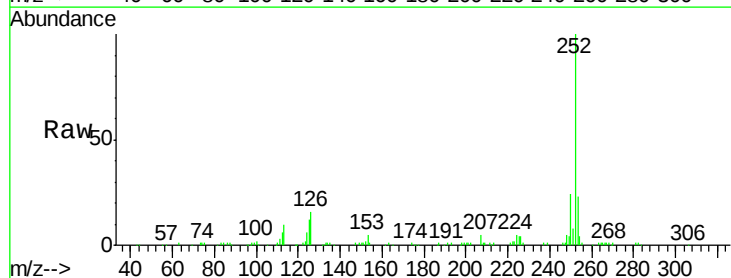
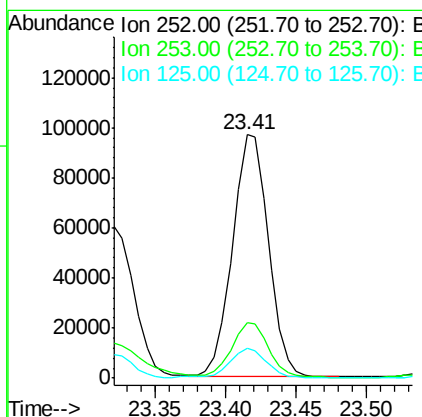
RT: 23.41 min Scan# 3456

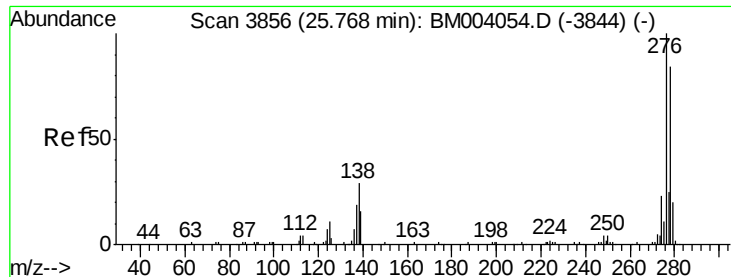
Delta R.T. -0.00 min

Lab File: BM004056.D

Acq: 15 Jan 2016 20:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 172847 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.7  | 17.2  | 25.8   |
| 125       | 12.3  | 9.0   | 13.6   |





#92

Indeno(1,2,3-cd)pyrene

Concen: 8.67 ng/ul

RT: 25.76 min Scan# 3855

Delta R.T. -0.01 min

Lab File: BM004056.D

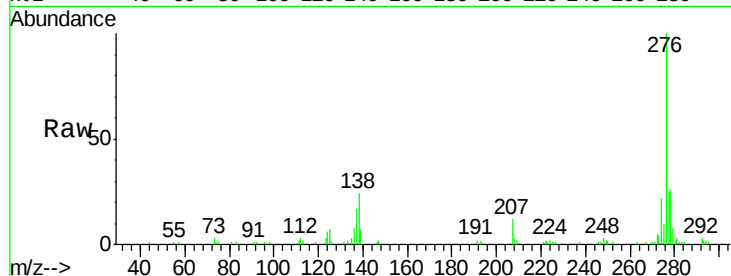
Acq: 15 Jan 2016 20:13

Instrument :

BNA\_M

ClientSampleId :

BC9G6



Tgt Ion: 276 Resp: 103419

Ion Ratio Lower Upper

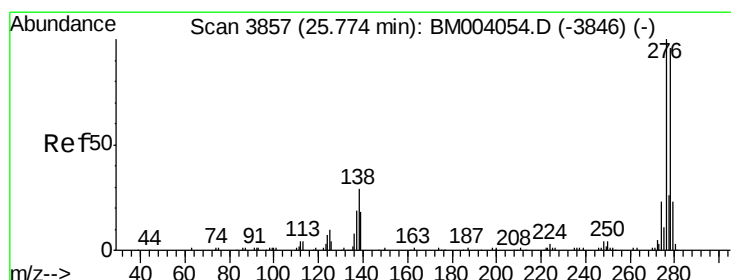
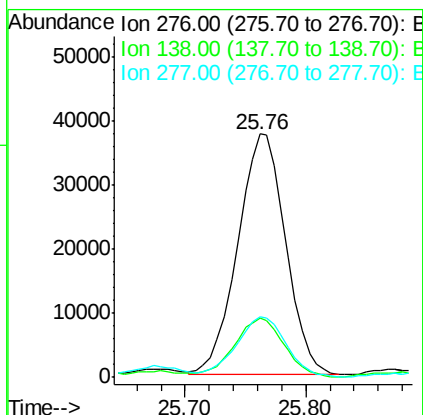
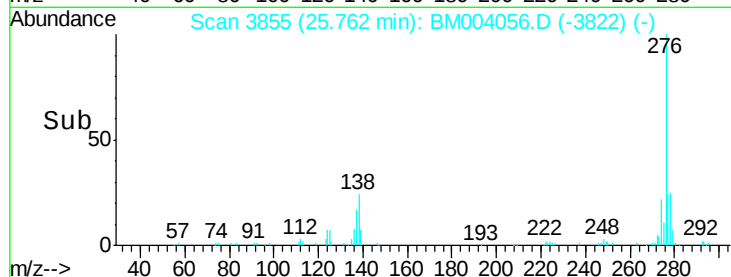
276 100

138 24.1 22.3 33.5

277 25.0 20.2 30.2

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#93

Dibenzo(a,h)anthracene

Concen: 3.15 ng/ul m

RT: 25.76 min Scan# 3855

Delta R.T. -0.01 min

Lab File: BM004056.D

Acq: 15 Jan 2016 20:13

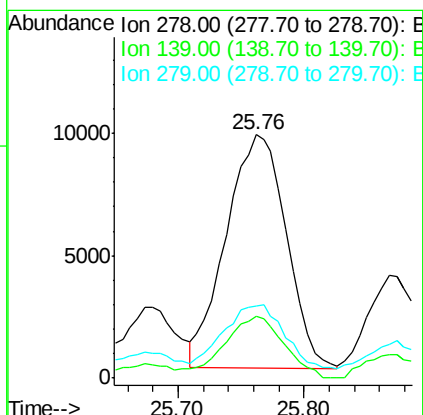
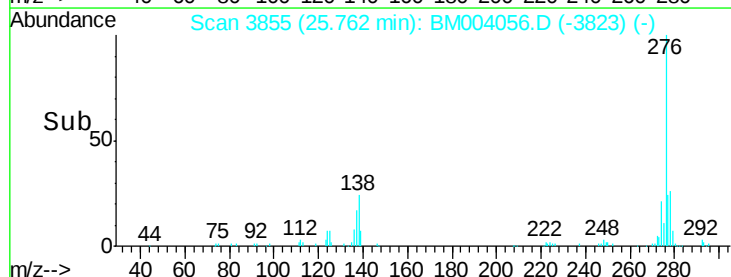
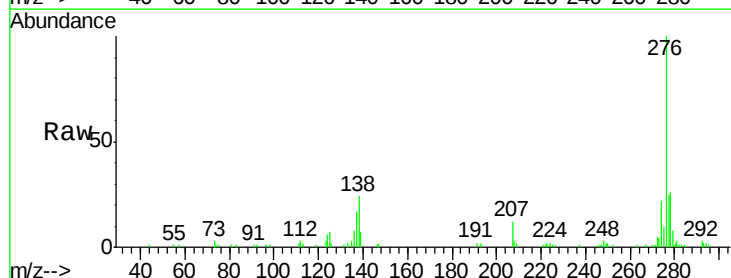
Tgt Ion: 278 Resp: 31587

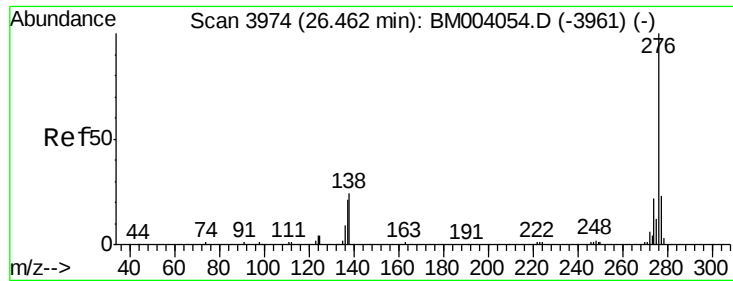
Ion Ratio Lower Upper

278 100

139 25.2 13.9 20.9#

279 29.8 19.0 28.4#





#94  
 Benzo(g,h,i)perylene  
 Concen: 7.67 ng/ul  
 RT: 26.46 min Scan# 3973  
 Delta R.T. -0.01 min  
 Lab File: BM004056.D  
 Acq: 15 Jan 2016 20:13

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC9G6

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 76799 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 24.9  | 18.9  | 28.3  |
| 277       | 24.4  | 19.2  | 28.8  |

Manual Integrations  
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