

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM030316\  
 Data File : BM004550.D  
 Acq On : 04 Mar 2016 02:13  
 Operator : SJ/UM  
 Sample : H1616-11  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 P009-SS004-01

Manual Integrations  
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Quant Time: Mar 04 06:45:08 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM030316.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 04 04:25:59 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.59  | 152  | 34777    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.38 | 136  | 171005   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.26 | 164  | 104694   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.02 | 188  | 225013   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.23 | 240  | 161902   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.44 | 264  | 139222   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.05  | 96  | 2218   | 3.43  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.85  | 99  | 62930  | 22.46 | ng/ul | 0.06 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.93  | 67  | 29500  | 20.89 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.15  | 132 | 57288  | 22.93 | ng/ul | 0.02 |
| 13) 4-Methylphenol-d8          | 8.36  | 113 | 53456  | 21.64 | ng/ul | 0.04 |
| 19) Nitrobenzene-d5            | 8.76  | 128 | 29776  | 23.30 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.47  | 143 | 35289  | 24.12 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.07 | 165 | 62814  | 23.73 | ng/ul | 0.05 |
| 29) 4-Chloroaniline-d4         | 10.53 | 131 | 49791  | 15.29 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.67 | 166 | 202415 | 23.24 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.95 | 160 | 250462 | 23.79 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.65 | 143 | 19143m | 14.91 | ng/ul | 0.14 |
| 58) Fluorene-d10               | 15.26 | 176 | 177290 | 23.47 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.42 | 200 | 27333  | 18.71 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.12 | 188 | 259164 | 23.54 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.42 | 212 | 245740 | 28.22 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.30 | 264 | 175786 | 23.73 | ng/ul | 0.01 |

## Target Compounds

|                            |       |     |        |      |        | Qvalue |
|----------------------------|-------|-----|--------|------|--------|--------|
| 28) Naphthalene            | 10.43 | 128 | 17767  | 1.89 | ng/ul  | 97     |
| 45) Dimethylphthalate      | 13.72 | 163 | 72123  | 7.88 | ng/ul  | 99     |
| 70) Phenanthrene           | 17.06 | 178 | 22216  | 1.65 | ng/ul  | 98     |
| 77) Fluoranthene           | 19.09 | 202 | 27400  | 1.89 | ng/ul  | 99     |
| 80) Pyrene                 | 19.45 | 202 | 37540  | 3.19 | ng/ul  | 99     |
| 83) Benzo(a)anthracene     | 21.21 | 228 | 14494m | 1.39 | ng/ul  |        |
| 85) Chrysene               | 21.26 | 228 | 17953  | 1.79 | ng/ul# | 94     |
| 88) Benzo(b)fluoranthene   | 22.78 | 252 | 18127  | 1.95 | ng/ul# | 84     |
| 91) Benzo(a)pyrene         | 23.34 | 252 | 13490  | 1.54 | ng/ul# | 87     |
| 92) Indeno(1,2,3-cd)pyrene | 25.66 | 276 | 10482  | 1.20 | ng/ul  | 98     |
| 94) Benzo(g,h,i)perylene   | 26.35 | 276 | 13676  | 1.86 | ng/ul  | 94     |

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

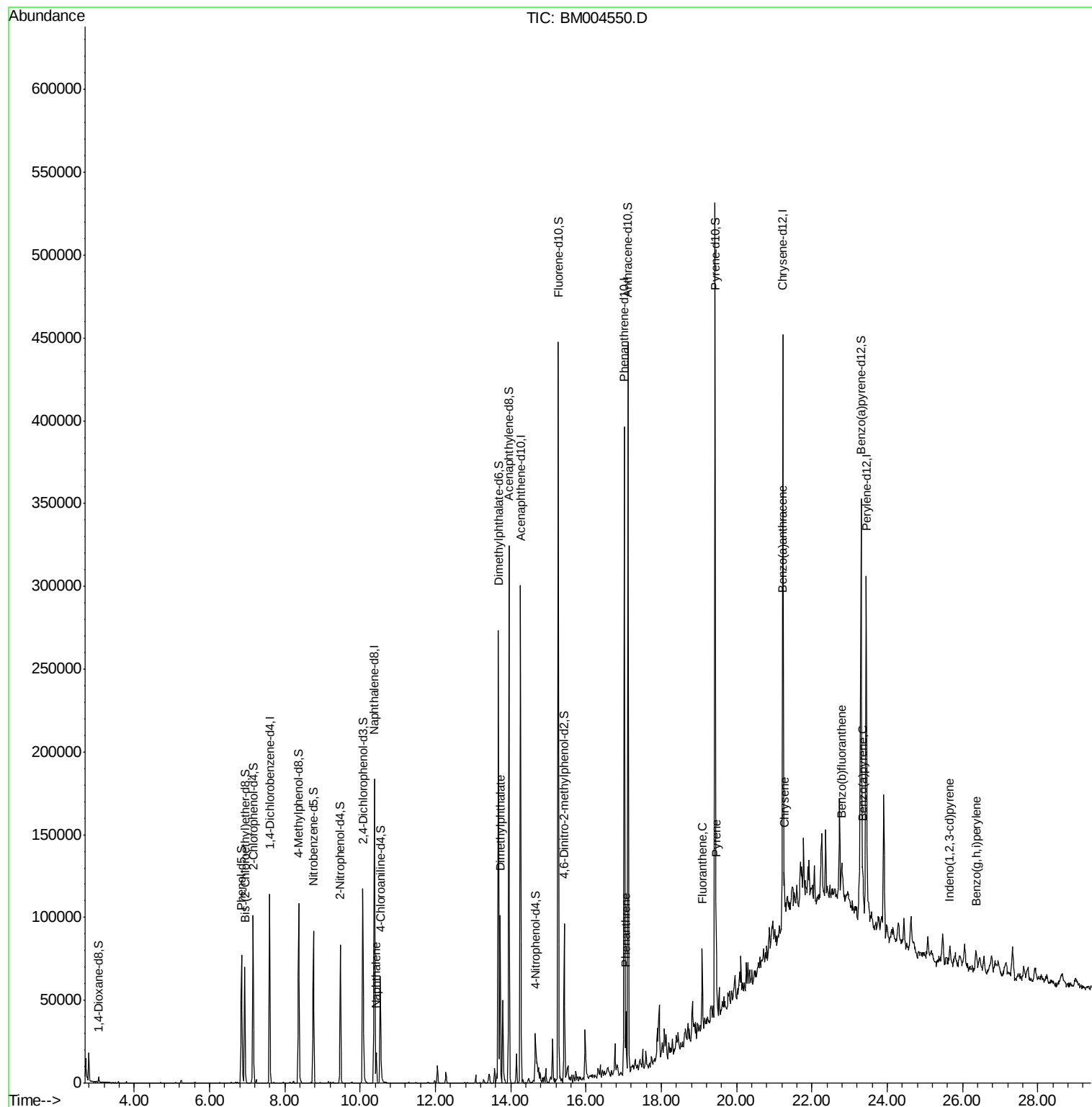
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM030316\  
Data File : BM004550.D  
Acq On : 04 Mar 2016 02:13  
Operator : SJ/UM  
Sample : H1616-11  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

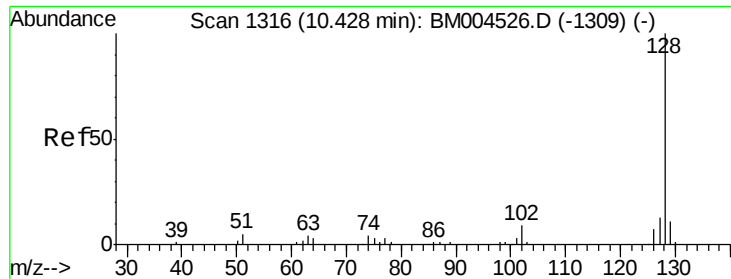
Instrument :  
BNA\_M  
ClientSampleId :  
P009-SS004-01

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Quant Time: Mar 04 06:45:08 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM030316.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Mar 04 04:25:59 2016  
Response via : Initial Calibration





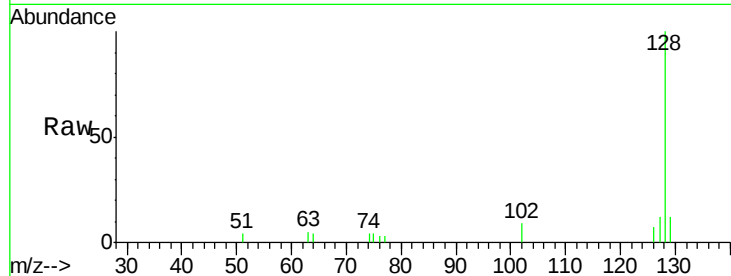
#28  
Naphthalene  
Concen: 1.89 ng/ul  
RT: 10.43 min Scan# 1316  
Delta R.T. 0.00 min  
Lab File: BM004550.D  
Acq: 04 Mar 2016 02:13

Instrument :  
BNA\_M  
ClientSampleId :  
P009-SS004-01

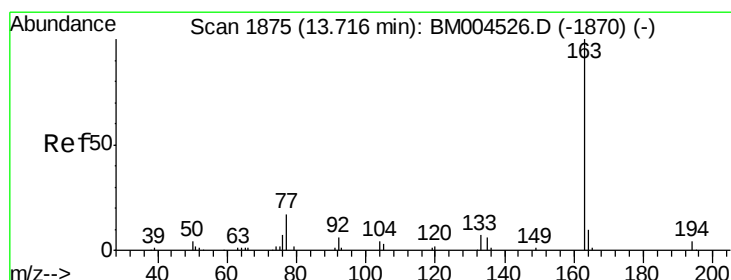
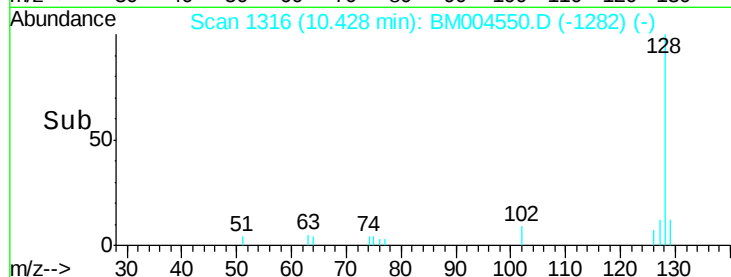
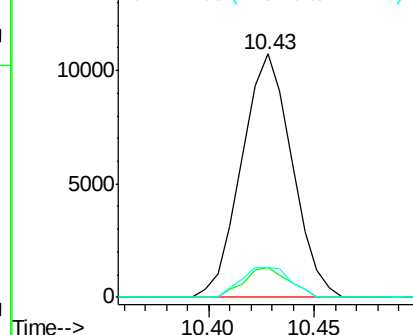
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 128     | 100   | 17767 |       |       |
| 129     | 12.4  | 8.8   | 13.2  |       |
| 127     | 12.2  | 10.5  | 15.7  |       |

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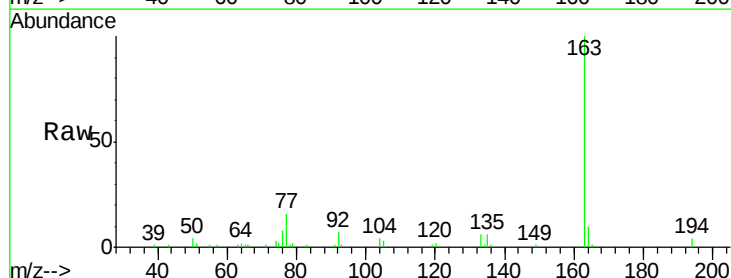


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

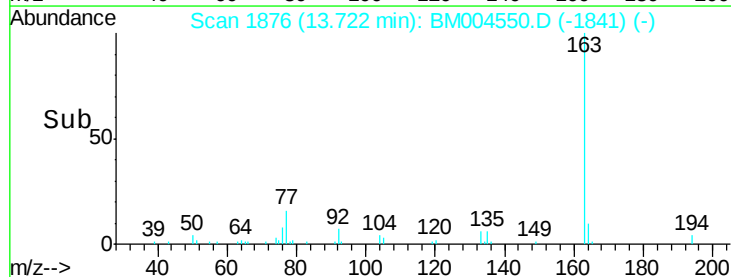
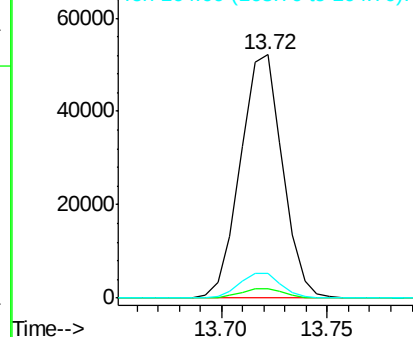


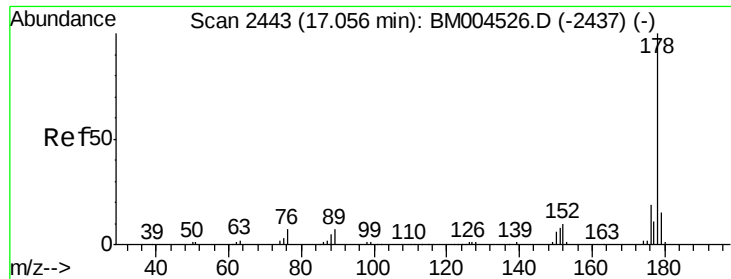
#45  
Dimethylphthalate  
Concen: 7.88 ng/ul  
RT: 13.72 min Scan# 1876  
Delta R.T. 0.01 min  
Lab File: BM004550.D  
Acq: 04 Mar 2016 02:13

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 72123 |       |       |
| 194     | 4.1   | 3.2   | 4.8   |       |
| 164     | 10.1  | 7.8   | 11.8  |       |



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E





#70

Phenanthrene

Concen: 1.65 ng/ul

RT: 17.06 min Scan# 2443

Delta R.T. 0.01 min

Lab File: BM004550.D

Acq: 04 Mar 2016 02:13

Instrument :

BNA\_M

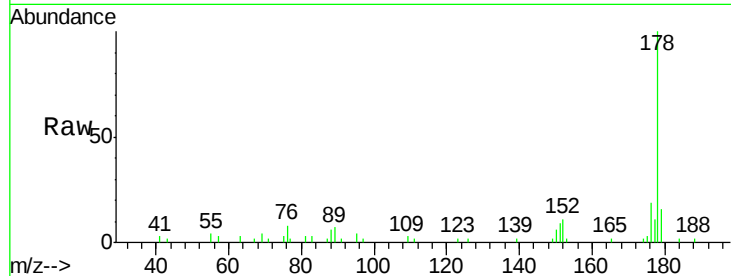
ClientSampleId :

P009-SS004-01

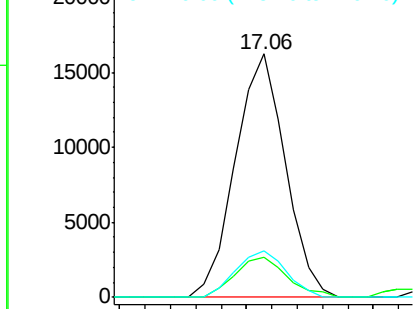
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 22216 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.4  | 12.2  | 18.4  |
| 176       | 18.9  | 15.6  | 23.4  |

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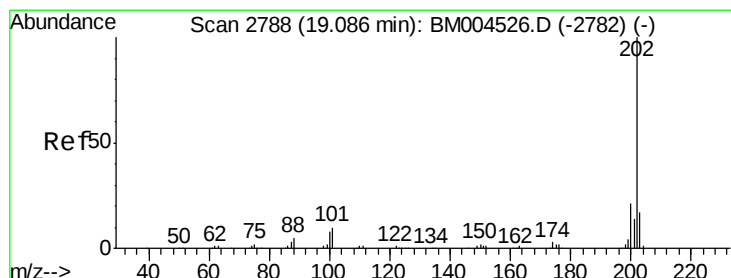
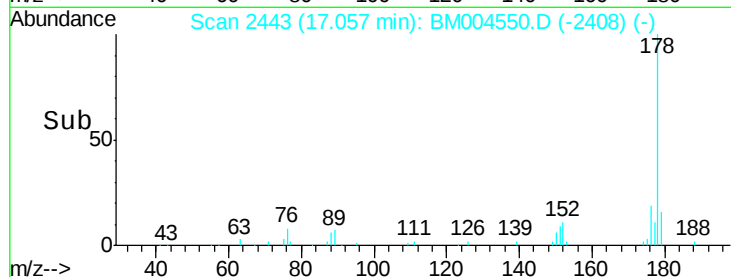
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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



Time--> 17.00 17.05 17.10



#77

Fluoranthene

Concen: 1.89 ng/ul

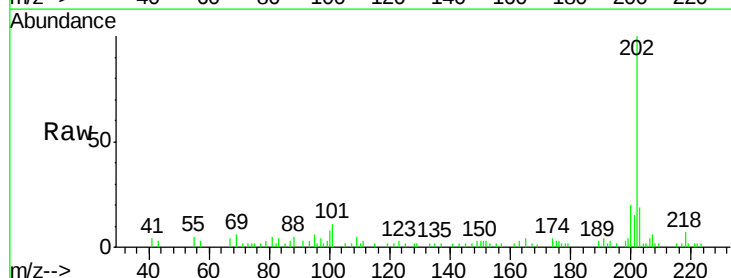
RT: 19.09 min Scan# 2788

Delta R.T. 0.00 min

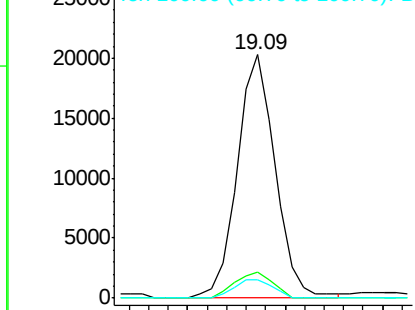
Lab File: BM004550.D

Acq: 04 Mar 2016 02:13

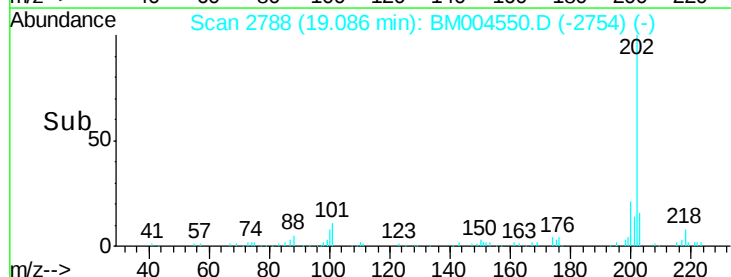
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 27400 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.9  | 8.8   | 13.2  |
| 100       | 7.7   | 6.6   | 9.8   |

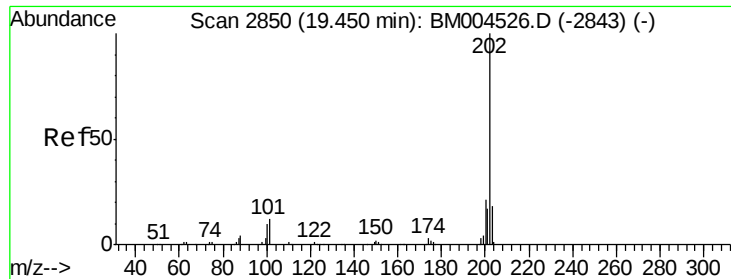


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B



Time--> 19.05 19.10 19.15





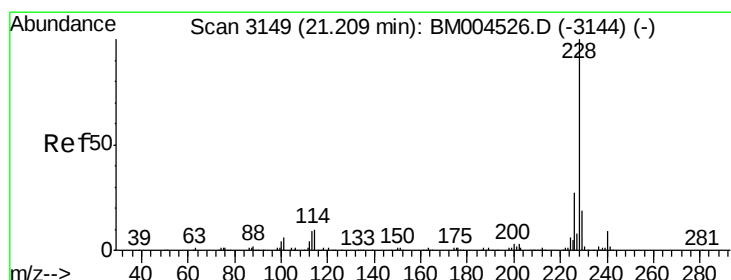
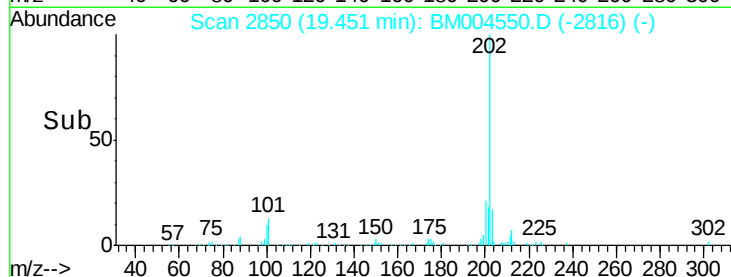
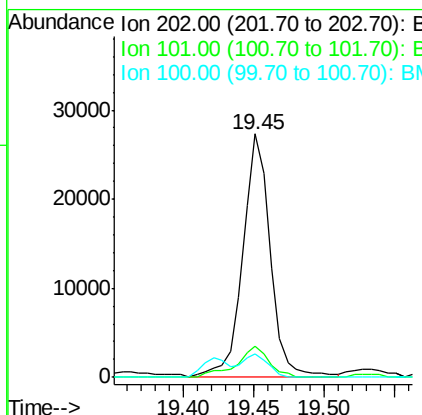
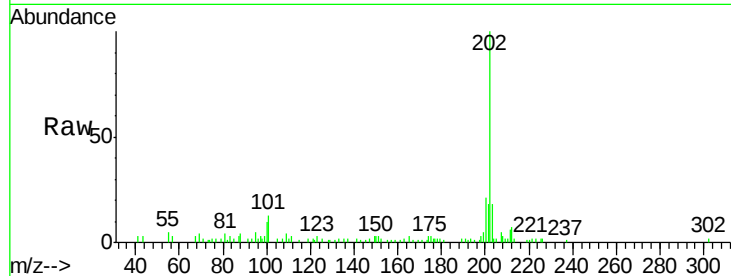
#80  
 Pyrene  
 Concen: 3.19 ng/ul  
 RT: 19.45 min Scan# 2850  
 Delta R.T. 0.00 min  
 Lab File: BM004550.D  
 Acq: 04 Mar 2016 02:13

Instrument :  
 BNA\_M  
 ClientSampleId :  
 P009-SS004-01

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 37540 |       |       |
| 101     | 12.7  | 10.2  | 15.2  |       |
| 100     | 9.8   | 8.5   | 12.7  |       |

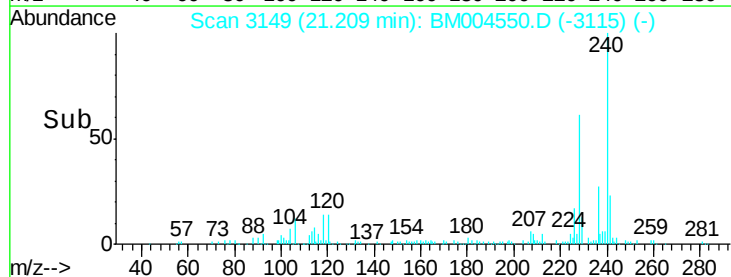
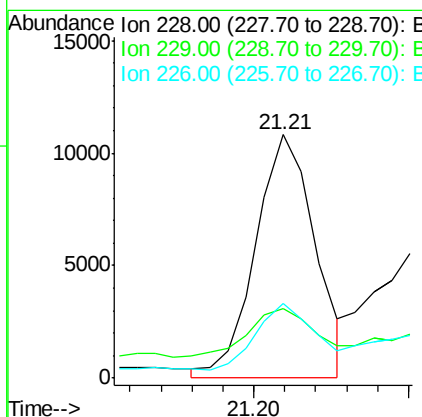
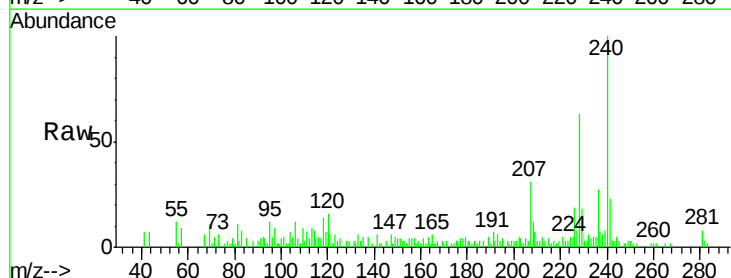
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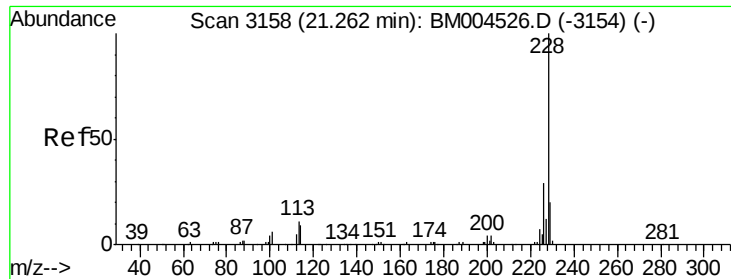
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#83  
 Benzo(a)anthracene  
 Concen: 1.39 ng/ul m  
 RT: 21.21 min Scan# 3149  
 Delta R.T. 0.00 min  
 Lab File: BM004550.D  
 Acq: 04 Mar 2016 02:13

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 14494 |       |       |
| 229     | 28.6  | 15.7  | 23.5# |       |
| 226     | 30.7  | 21.8  | 32.6  |       |





#85

Chrysene

Concen: 1.79 ng/ul

RT: 21.26 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BM004550.D

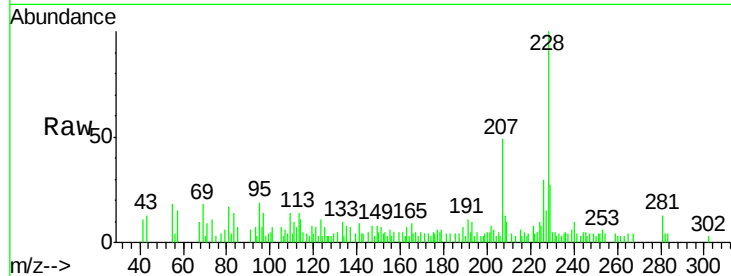
Acq: 04 Mar 2016 02:13

Instrument :

BNA\_M

ClientSampleId :

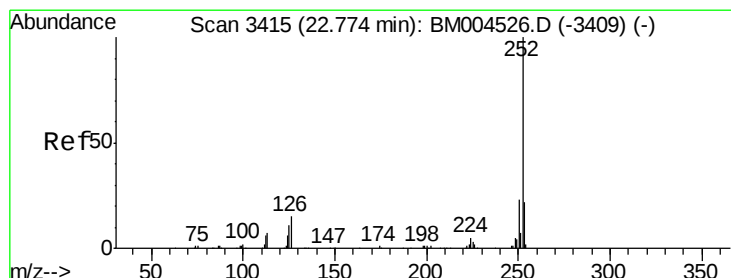
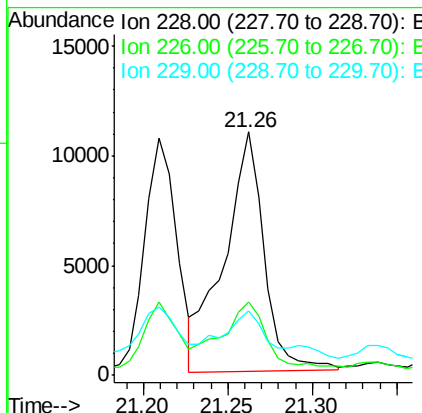
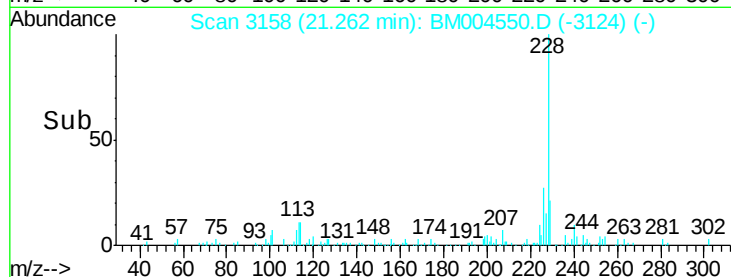
P009-SS004-01



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 17953 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.4  | 24.0  | 36.0  |
| 229       | 26.5  | 15.6  | 23.4  |

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#88

Benzo(b)fluoranthene

Concen: 1.95 ng/ul

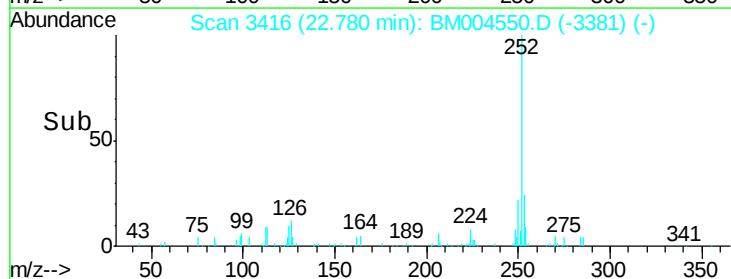
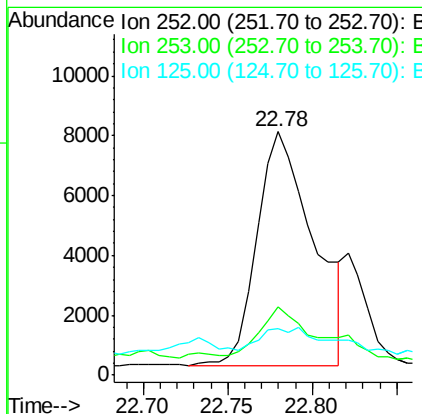
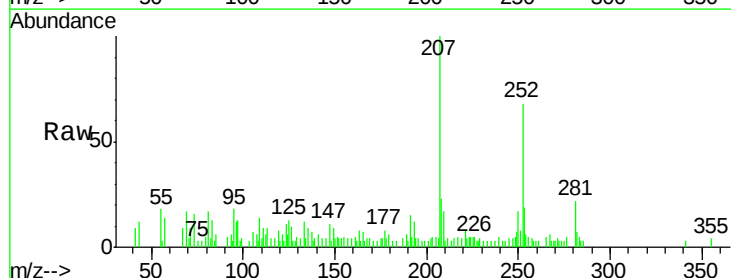
RT: 22.78 min Scan# 3416

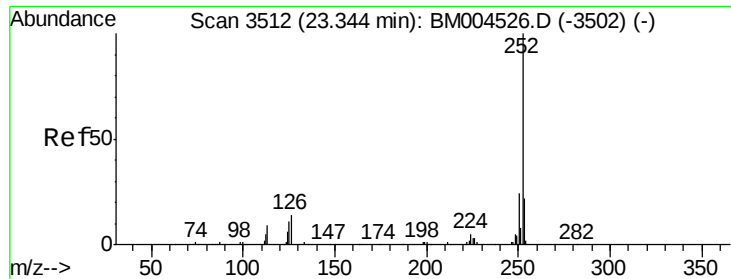
Delta R.T. 0.01 min

Lab File: BM004550.D

Acq: 04 Mar 2016 02:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 18127 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.9  | 17.5  | 26.3  |
| 125       | 19.0  | 8.5   | 12.7  |





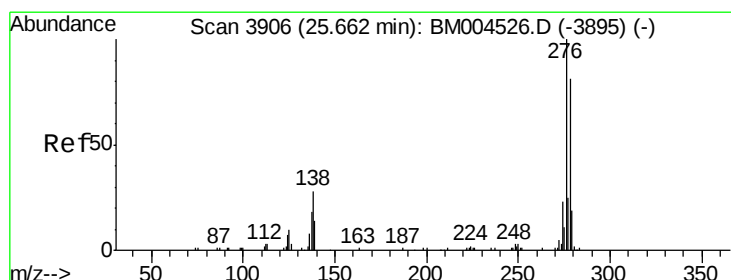
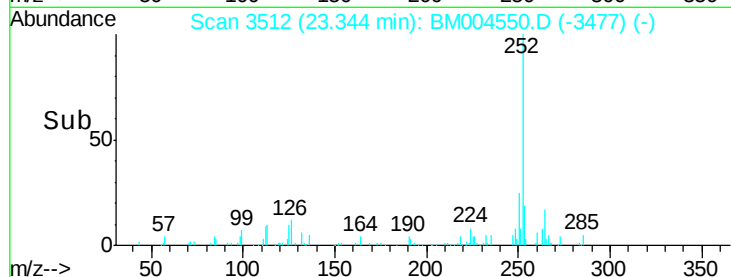
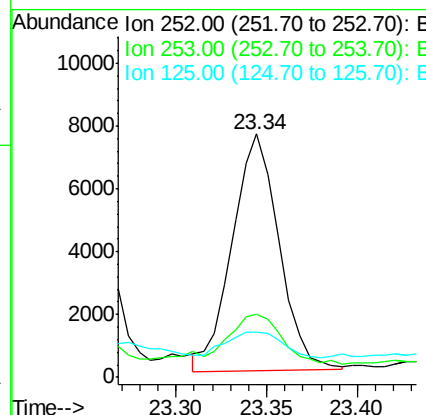
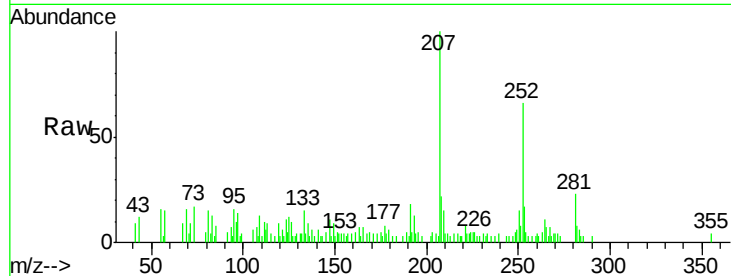
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Benzo(a)pyrene  
Concen: 1.54 ng/ul  
RT: 23.34 min Scan# 3512  
Delta R.T. 0.01 min  
Lab File: BM004550.D  
Acq: 04 Mar 2016 02:13

Instrument :  
BNA\_M  
ClientSampleId :  
P009-SS004-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 17.2  | 25.8# |
| 125     | 18.8  | 9.0   | 13.6# |

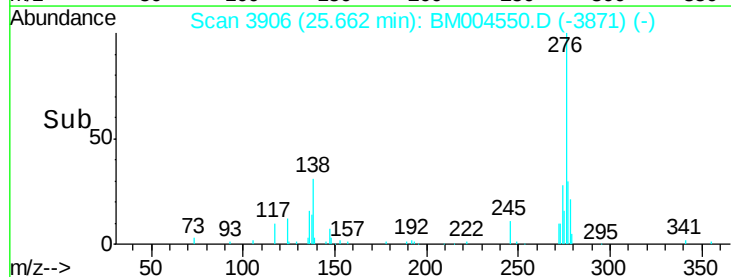
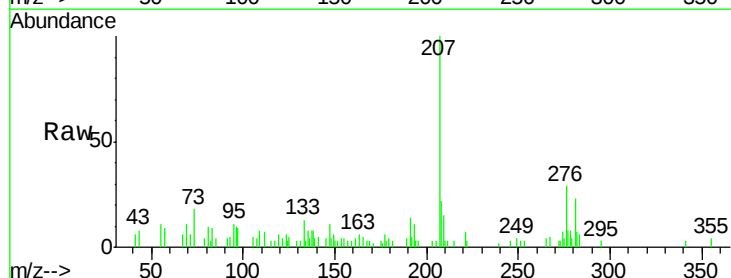
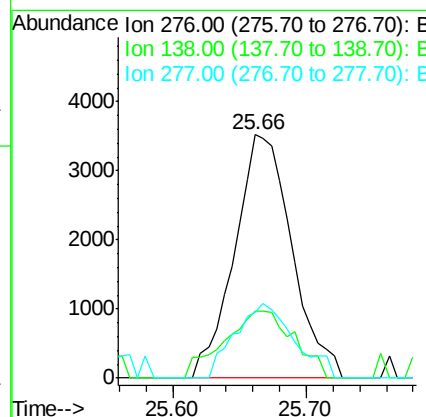
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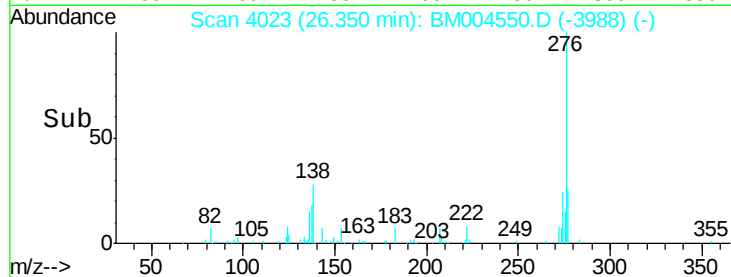
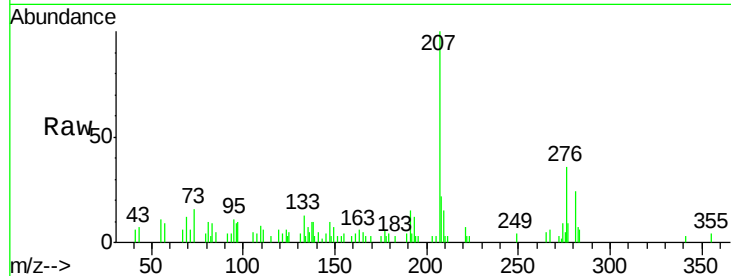
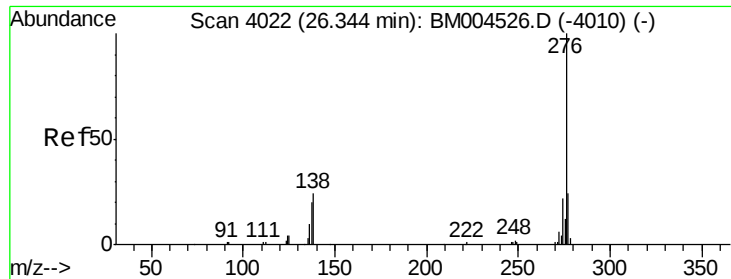
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#92  
Indeno(1,2,3-cd)pyrene  
Concen: 1.20 ng/ul  
RT: 25.66 min Scan# 3906  
Delta R.T. 0.01 min  
Lab File: BM004550.D  
Acq: 04 Mar 2016 02:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.4  | 22.3  | 33.5  |
| 277     | 26.9  | 20.2  | 30.2  |





#94

Benzo(g,h,i)perylene

Concen: 1.86 ng/ul

RT: 26.35 min Scan# 4023

Delta R.T. 0.01 min

Lab File: BM004550.D

Acq: 04 Mar 2016 02:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 13676 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 28.1  | 18.9  | 28.3  |
| 277       | 25.9  | 19.2  | 28.8  |

Instrument :

BNA\_M

ClientSampleId :

P009-SS004-01

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