

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
 Data File : BM014403.D  
 Acq On : 28 Feb 2018 14:36  
 Operator : SJ/JU  
 Sample : J1646-08  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BE5X2

Manual Integrations  
 APPROVED

Sohil  
 3/1/2018 5:14:40 PM

Quant Time: Mar 08 16:52:23 2018  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Feb 28 12:00:03 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.52  | 152  | 110639   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.29 | 136  | 460349   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.18 | 164  | 263526   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.94 | 188  | 541965   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.16 | 240  | 490699   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.33 | 264  | 481415   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.10  | 96  | 2903   | 1.12 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.73  | 99  | 59835  | 6.40 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.87  | 67  | 37966  | 6.71 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.06  | 132 | 53357  | 7.44 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.26  | 113 | 47849m | 5.85 | ng/ul | 0.02 |
| 19) Nitrobenzene-d5            | 8.69  | 128 | 27067  | 7.96 | ng/ul | 0.02 |
| 22) 2-Nitrophenol-d4           | 9.40  | 143 | 26802m | 7.61 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.95  | 165 | 51886m | 7.11 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.47 | 131 | 47947m | 6.67 | ng/ul | 0.02 |
| 43) Dimethylphthalate-d6       | 13.60 | 166 | 166980 | 7.67 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.87 | 160 | 213110 | 7.94 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.49 | 143 | 14723m | 4.90 | ng/ul | 0.06 |
| 57) Fluorene-d10               | 15.19 | 176 | 140768 | 7.22 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.36 | 200 | 1895   | 0.58 | ng/ul | 0.02 |
| 70) Anthracene-d10             | 17.04 | 188 | 205295 | 7.85 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.35 | 212 | 212340 | 8.39 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.19 | 264 | 189445 | 8.09 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue |    |
|--------------------------------|-------|-----|---------|--------|--------|----|
| 44) Dimethylphthalate          | 13.65 | 163 | 47527   | 2.215  | ng/ul  | 99 |
| 47) Acenaphthylene             | 13.90 | 152 | 68901   | 2.716  | ng/ul  | 98 |
| 69) Phenanthrene               | 16.98 | 178 | 604004  | 19.343 | ng/ul  | 98 |
| 71) Anthracene                 | 17.07 | 178 | 155150  | 4.941  | ng/ul  | 97 |
| 74) Fluoranthene               | 19.02 | 202 | 1098747 | 29.452 | ng/ul# | 93 |
| 77) Pyrene                     | 19.38 | 202 | 915816  | 28.083 | ng/ul# | 93 |
| 80) Benzo(a)anthracene         | 21.14 | 228 | 460663  | 15.042 | ng/ul  | 97 |
| 81) Bis(2-ethylhexyl)phthalate | 21.07 | 149 | 75076   | 3.888  | ng/ul# | 98 |
| 82) Chrysene                   | 21.19 | 228 | 376400  | 13.175 | ng/ul  | 96 |
| 85) Benzo(b)fluoranthene       | 22.68 | 252 | 441117  | 13.685 | ng/ul# | 97 |
| 86) Benzo(k)fluoranthene       | 22.72 | 252 | 173273  | 5.654  | ng/ul# | 95 |
| 88) Benzo(a)pyrene             | 23.24 | 252 | 333317  | 11.572 | ng/ul# | 97 |
| 89) Indeno(1,2,3-cd)pyrene     | 25.50 | 276 | 192138  | 6.874  | ng/ul  | 95 |
| 90) Dibenzo(a,h)anthracene     | 25.50 | 278 | 57095   | 2.458  | ng/ul# | 93 |
| 91) Benzo(g,h,i)perylene       | 26.16 | 276 | 136011  | 6.007  | ng/ul# | 94 |

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

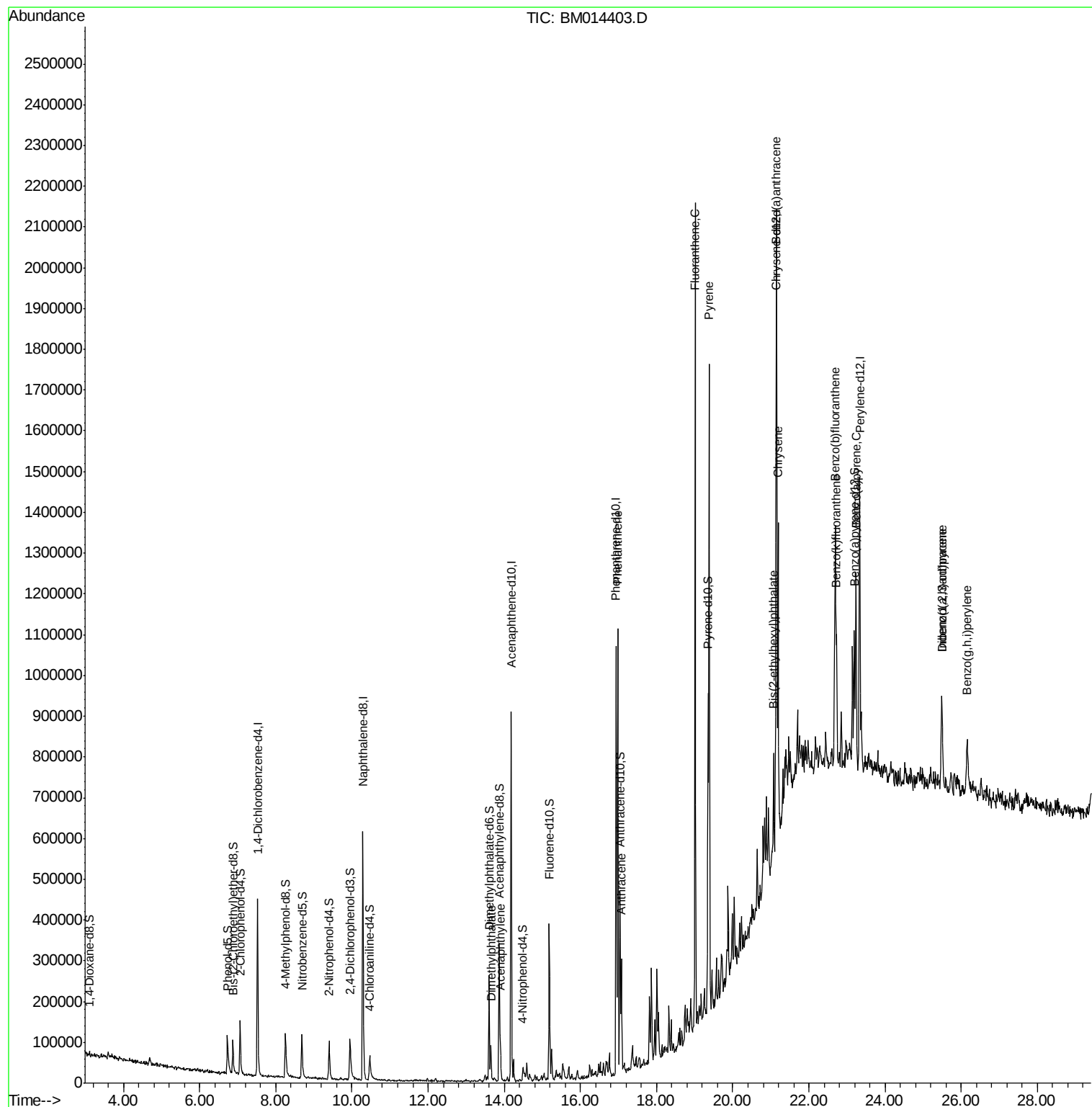
Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
Data File : BM014403.D  
Acq On : 28 Feb 2018 14:36  
Operator : SJ/JU  
Sample : J1646-08  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

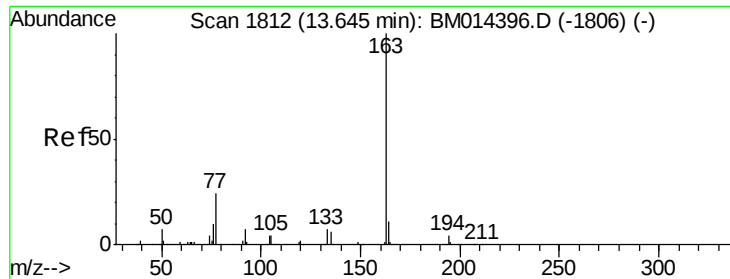
Instrument :  
BNA\_M  
ClientSampleId :  
BE5X2

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Quant Time: Mar 08 16:52:23 2018  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Feb 28 12:00:03 2018  
Response via : Initial Calibration





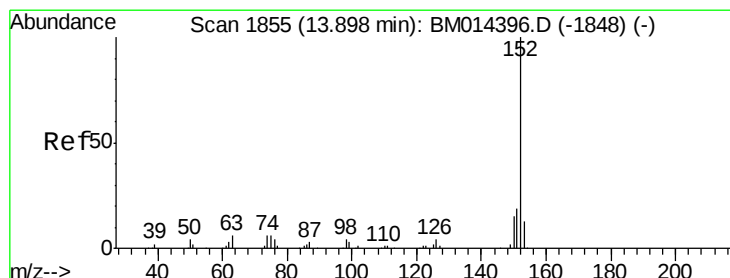
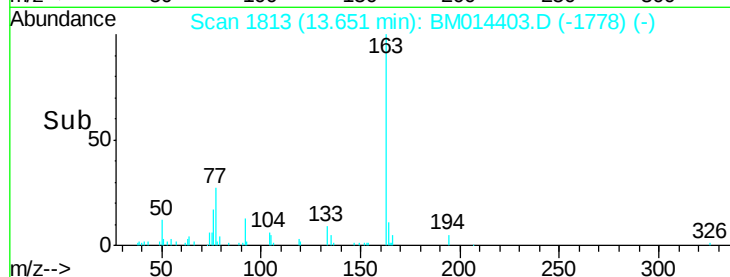
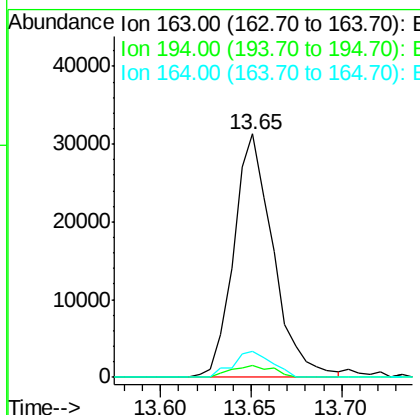
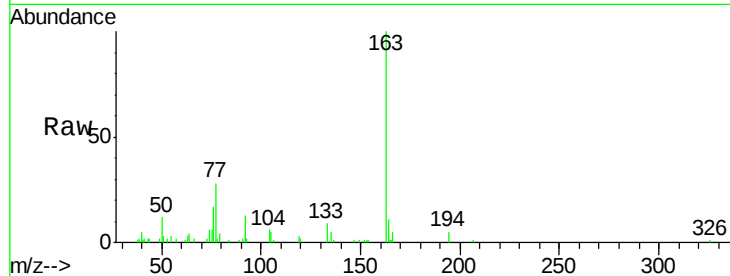
#44  
Dimethylphthalate  
Concen: 2.215 ng/ul  
RT: 13.65 min Scan# 1813  
Delta R.T. 0.01 min  
Lab File: BM014403.D  
Acq: 28 Feb 2018 14:36

Instrument :  
BNA\_M  
ClientSampleId :  
BE5X2

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 47527 |       |       |
| 194     | 4.9   |       | 3.5   | 5.3   |
| 164     | 10.7  |       | 8.2   | 12.4  |

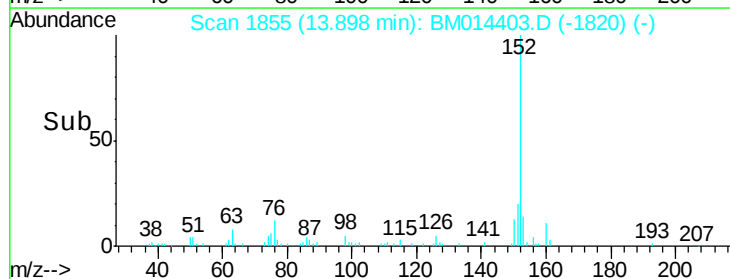
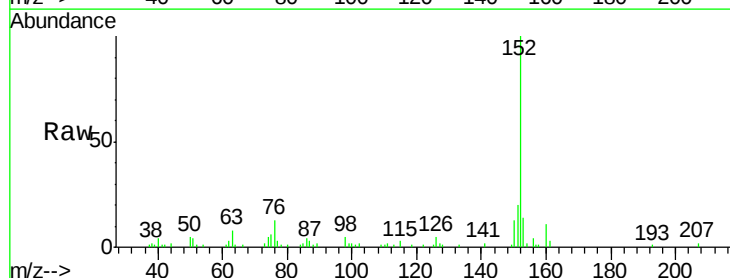
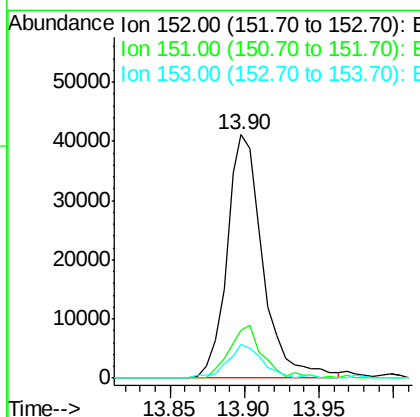
Manual Integrations  
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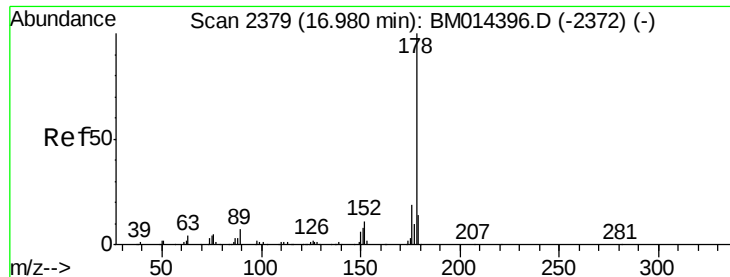
Sohil  
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#47  
Acenaphthylene  
Concen: 2.716 ng/ul  
RT: 13.90 min Scan# 1855  
Delta R.T. 0.01 min  
Lab File: BM014403.D  
Acq: 28 Feb 2018 14:36

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 152     | 100   | 68901 |       |       |
| 151     | 19.7  |       | 16.3  | 24.5  |
| 153     | 13.9  |       | 10.2  | 15.4  |





#69

Phenanthrene

Concen: 19.343 ng/ul

RT: 16.98 min Scan# 2379

Delta R.T. -0.00 min

Lab File: BM014403.D

Acq: 28 Feb 2018 14:36

Instrument :

BNA\_M

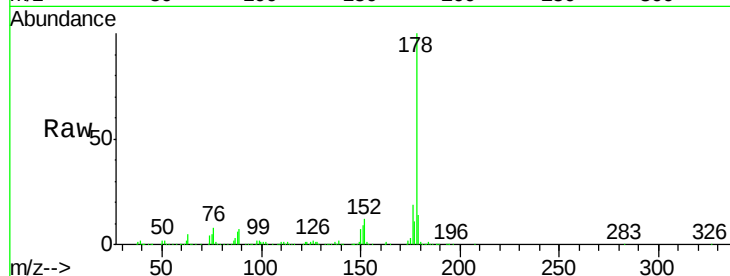
ClientSampled :

BE5X2

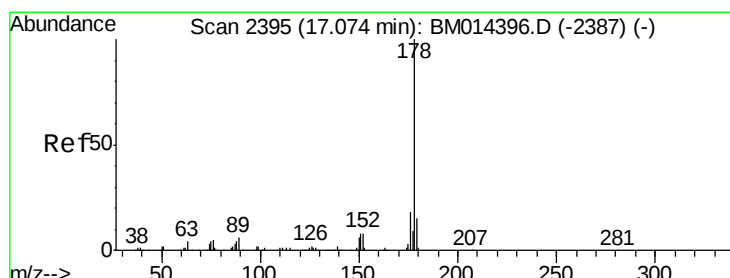
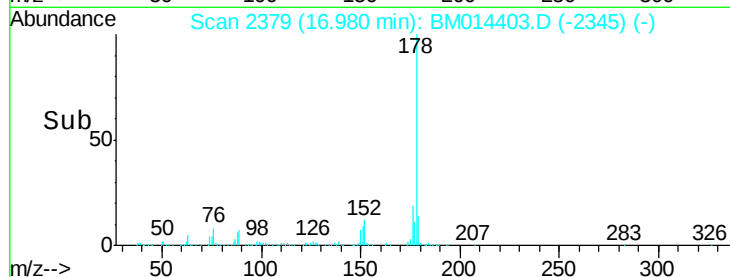
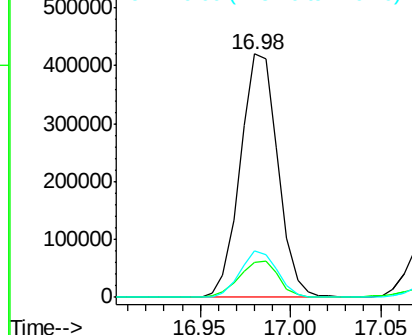
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 604004 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 14.3  | 12.6  | 19.0   |
| 176       | 19.3  | 14.9  | 22.3   |

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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



#71

Anthracene

Concen: 4.941 ng/ul

RT: 17.07 min Scan# 2395

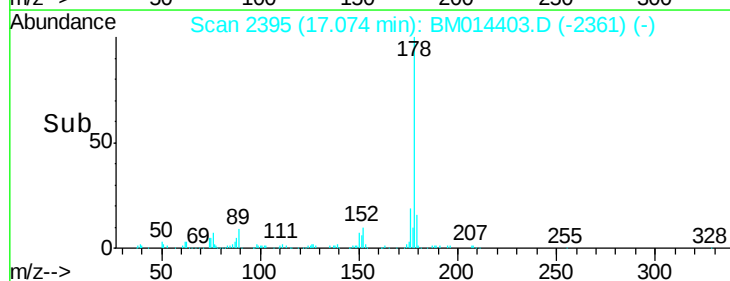
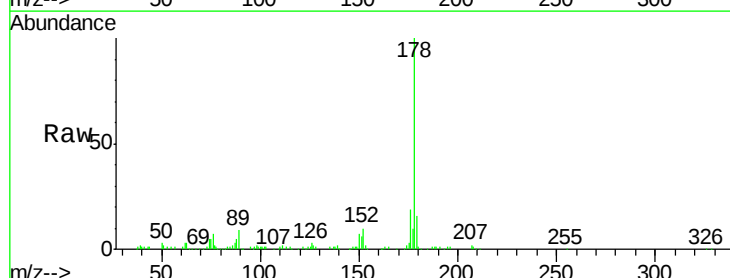
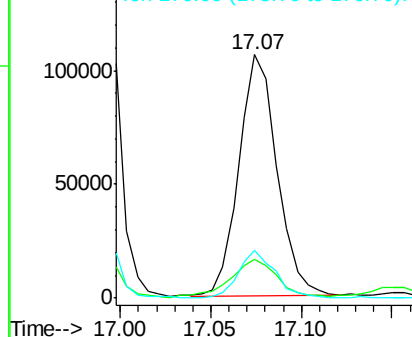
Delta R.T. -0.00 min

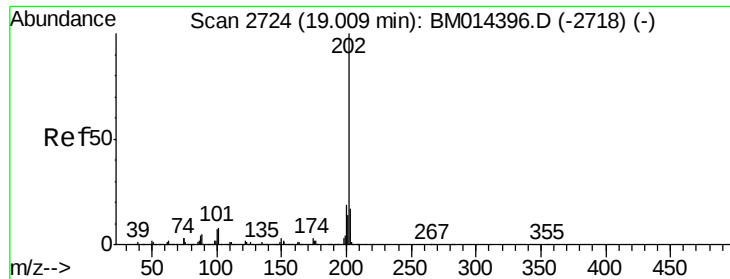
Lab File: BM014403.D

Acq: 28 Feb 2018 14:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 155150 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.0  | 11.7  | 17.5   |
| 176       | 19.4  | 14.6  | 21.8   |

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





#74

Fluoranthene

Concen: 29.452 ng/ul

RT: 19.02 min Scan# 2725

Delta R.T. 0.01 min

Lab File: BM014403.D

Acq: 28 Feb 2018 14:36

Instrument :

BNA\_M

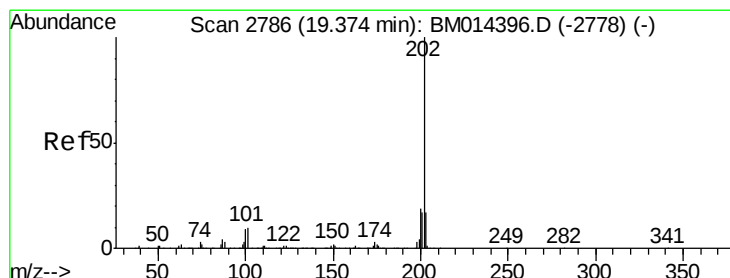
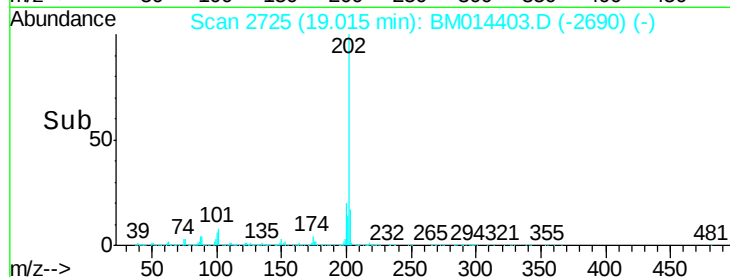
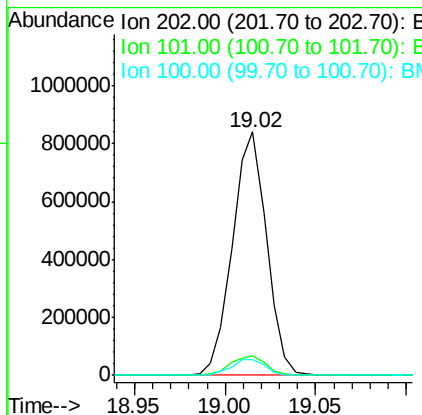
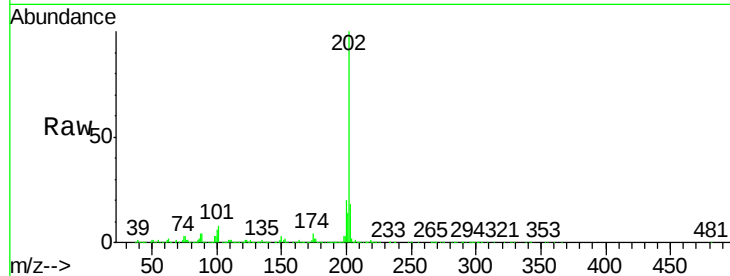
ClientSampleId :

BE5X2

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 1098747 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 8.1   | 4.6   | 7.0#    |
| 100       | 6.3   | 3.4   | 5.2#    |

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#77

Pyrene

Concen: 28.083 ng/ul

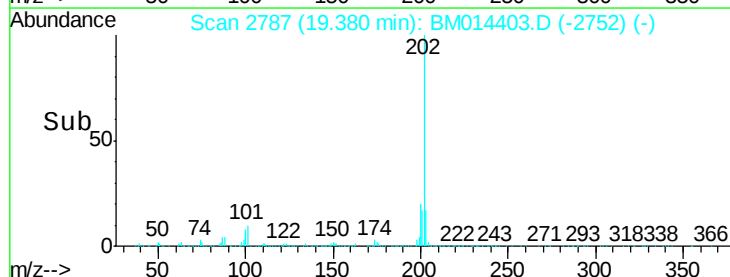
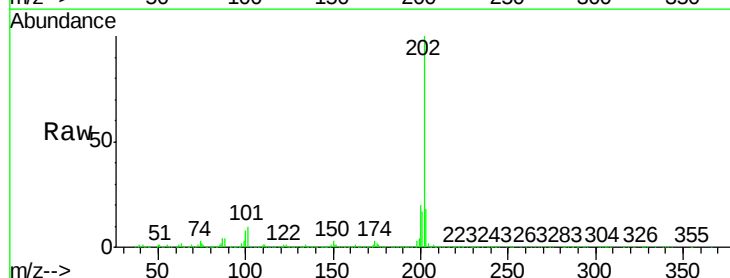
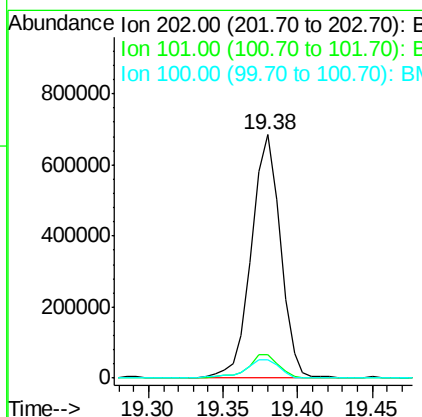
RT: 19.38 min Scan# 2787

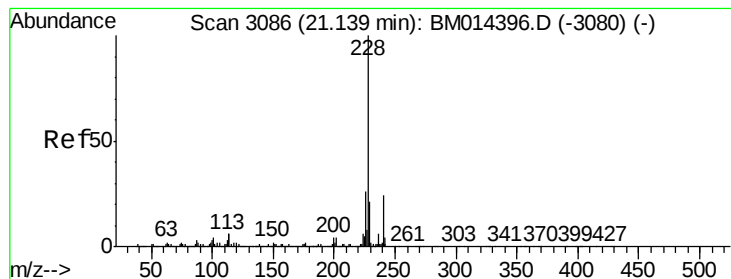
Delta R.T. 0.01 min

Lab File: BM014403.D

Acq: 28 Feb 2018 14:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 915816 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.9   | 5.1   | 7.7#   |
| 100       | 7.6   | 4.9   | 7.3#   |





#80

Benzo(a)anthracene

Concen: 15.042 ng/ul

RT: 21.14 min Scan# 3086

Delta R.T. 0.01 min

Lab File: BM014403.D

Acq: 28 Feb 2018 14:36

Instrument :

BNA\_M

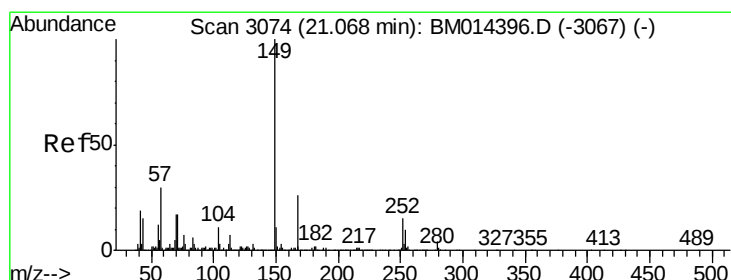
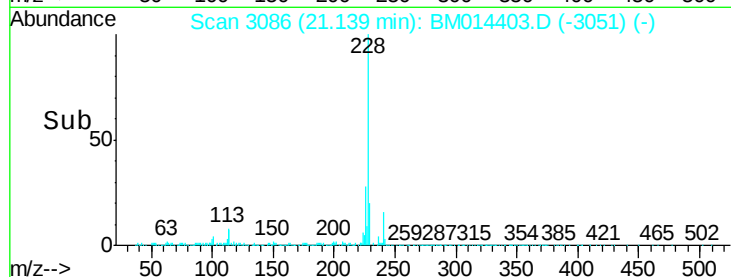
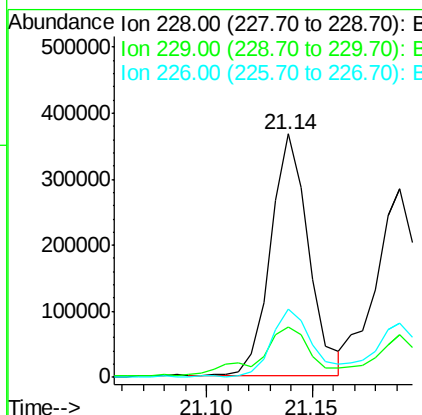
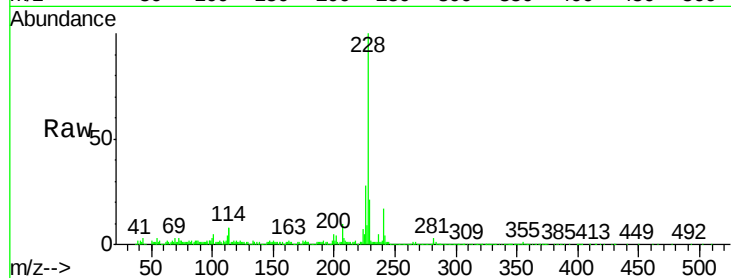
ClientSampled :

BE5X2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 460663 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 20.8  | 15.4  | 23.0   |
| 226       | 28.1  | 21.4  | 32.0   |

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#81

Bis(2-ethylhexyl)phthalate

Concen: 3.888 ng/ul

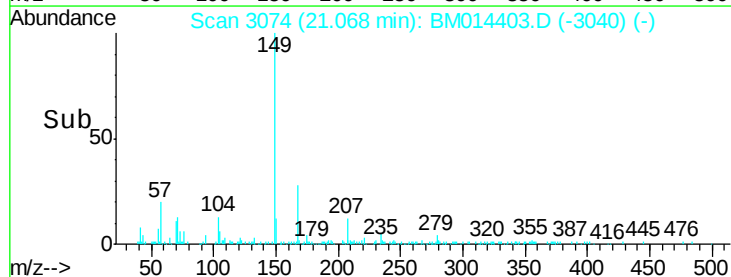
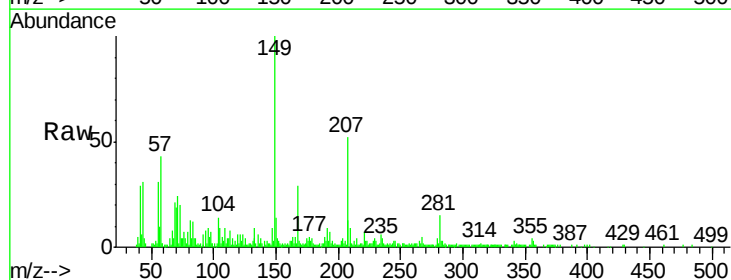
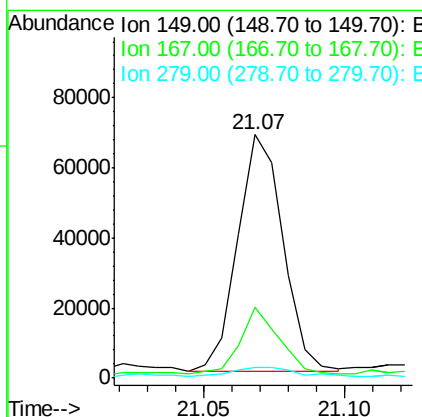
RT: 21.07 min Scan# 3074

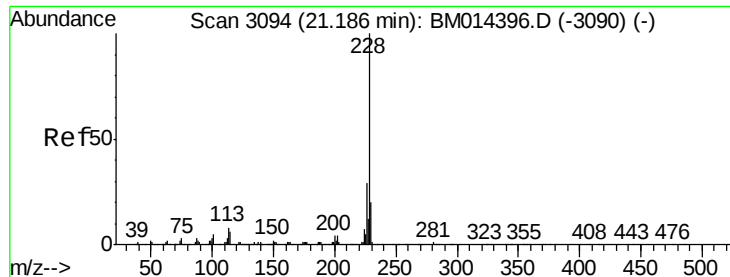
Delta R.T. -0.00 min

Lab File: BM014403.D

Acq: 28 Feb 2018 14:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 75076 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 29.3  | 22.8  | 34.2  |
| 279       | 4.2   | 4.9   | 7.3#  |





#82

Chrysene

Concen: 13.175 ng/ul

RT: 21.19 min Scan# 3095

Delta R.T. 0.01 min

Lab File: BM014403.D

Acq: 28 Feb 2018 14:36

Instrument :

BNA\_M

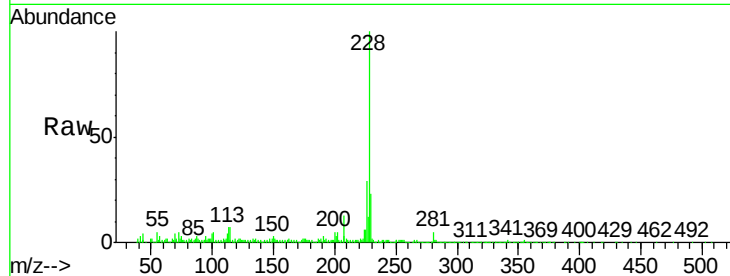
ClientSampled :

BE5X2

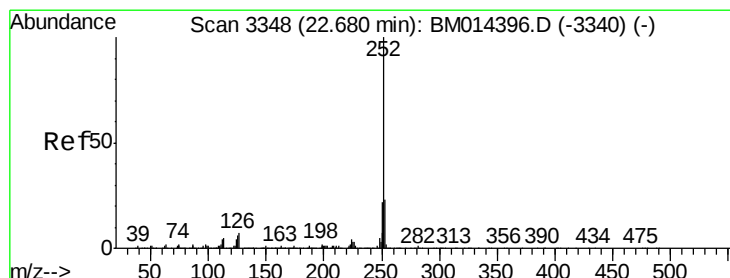
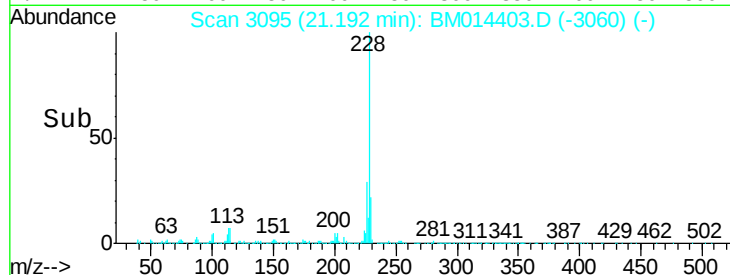
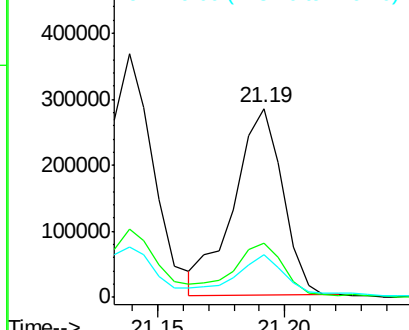
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 376400 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 28.7  | 23.4  | 35.2   |
| 229       | 22.9  | 15.5  | 23.3   |

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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: 13.685 ng/ul

RT: 22.68 min Scan# 3348

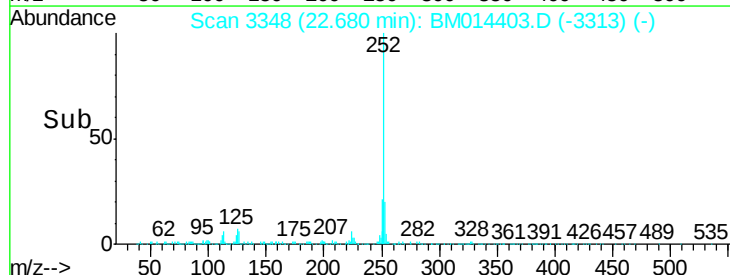
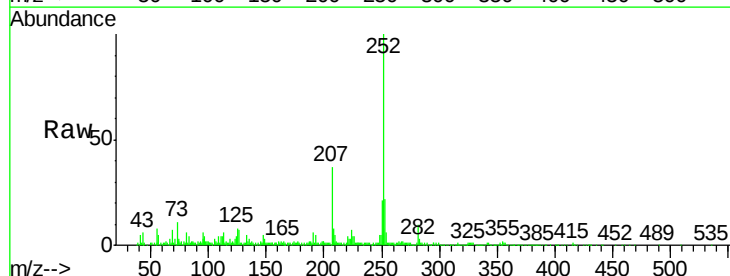
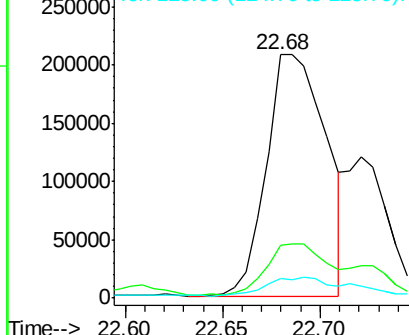
Delta R.T. 0.01 min

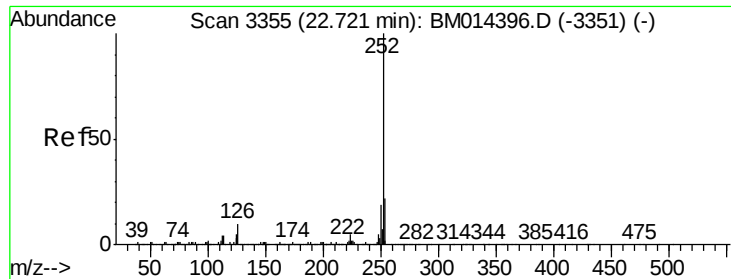
Lab File: BM014403.D

Acq: 28 Feb 2018 14:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 441117 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.6  | 17.9  | 26.9   |
| 125       | 8.0   | 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





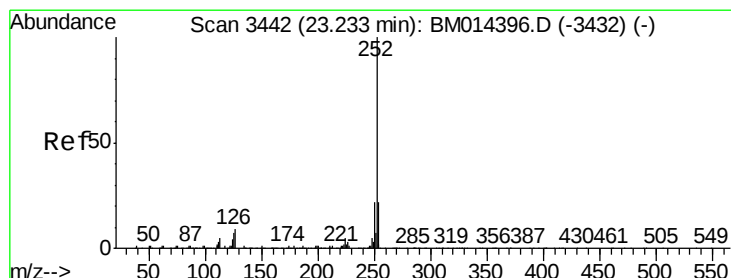
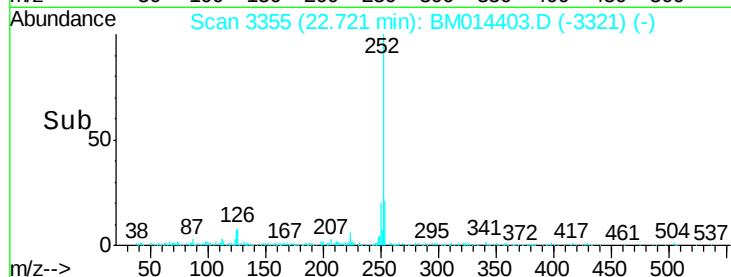
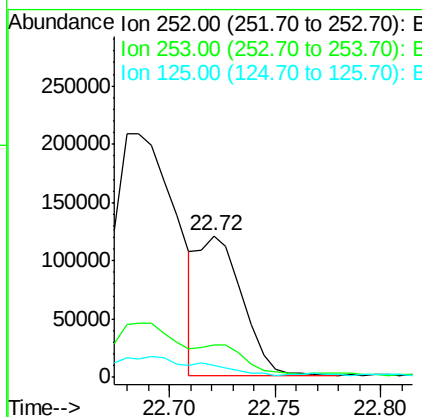
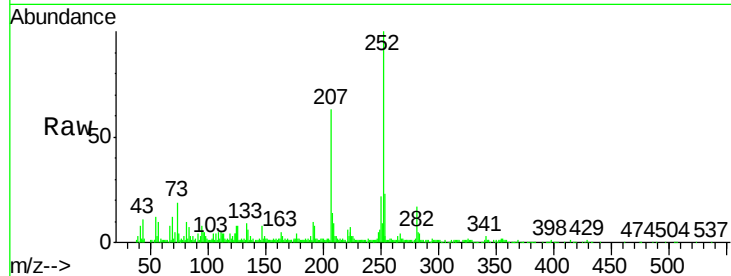
#86  
Benzo(k)fluoranthene  
Concen: 5.654 ng/ul  
RT: 22.72 min Scan# 3355  
Delta R.T. -0.00 min  
Lab File: BM014403.D  
Acq: 28 Feb 2018 14:36

Instrument :  
BNA\_M  
ClientSampleId :  
BE5X2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.1  | 25.7  |
| 125     | 8.5   | 3.4   | 5.2   |

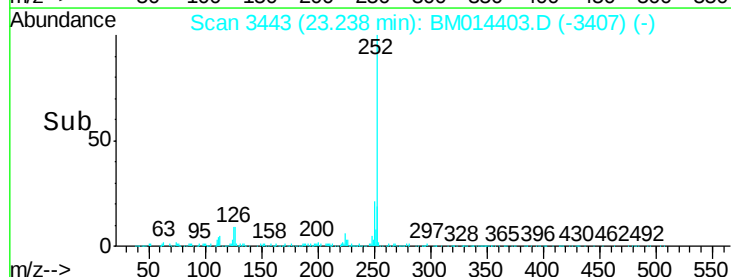
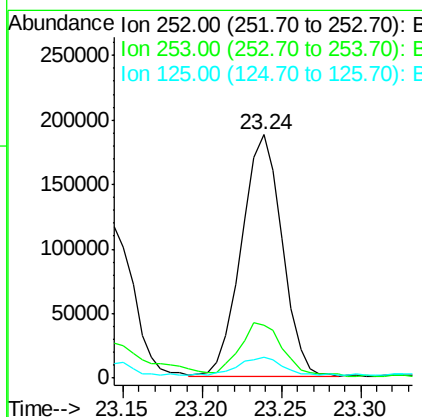
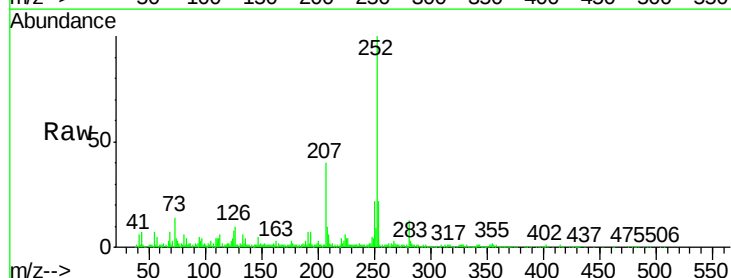
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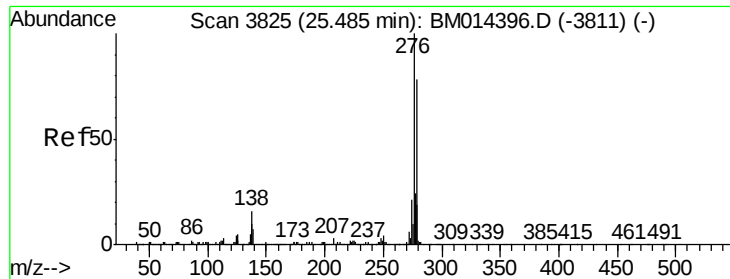
Sohil  
3/1/2018 5:14:40 PM



#88  
Benzo(a)pyrene  
Concen: 11.572 ng/ul  
RT: 23.24 min Scan# 3443  
Delta R.T. 0.01 min  
Lab File: BM014403.D  
Acq: 28 Feb 2018 14:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.8  | 18.2  | 27.2  |
| 125     | 8.4   | 4.0   | 6.0   |





#89

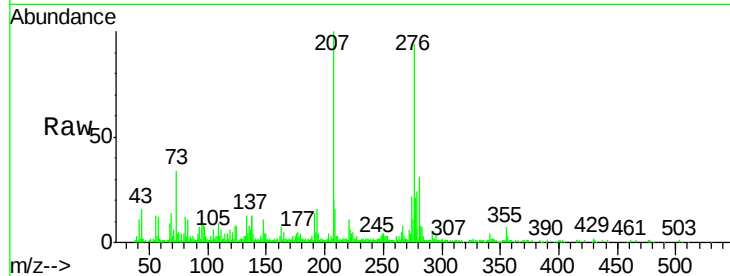
Indeno(1,2,3-cd)pyrene  
Concen: 6.874 ng/ul  
RT: 25.50 min Scan# 3827  
Delta R.T. 0.02 min  
Lab File: BM014403.D  
Acq: 28 Feb 2018 14:36

Instrument :  
BNA\_M  
ClientSampleId :  
BE5X2

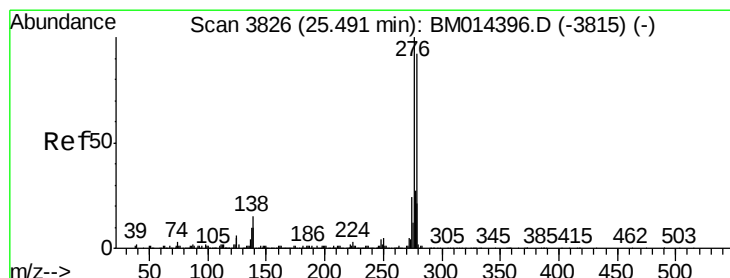
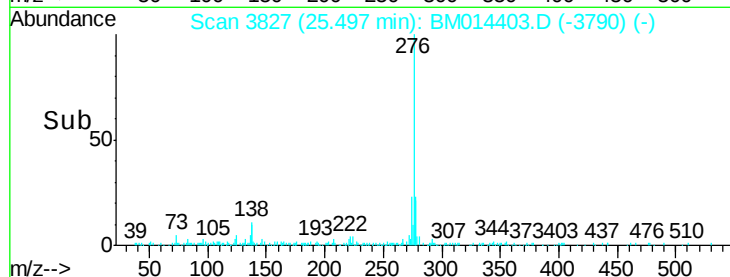
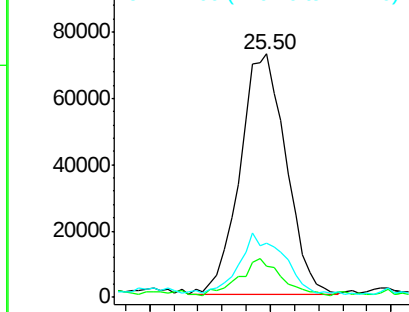
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 13.0  | 9.3   | 13.9  |
| 277     | 22.1  | 19.9  | 29.9  |

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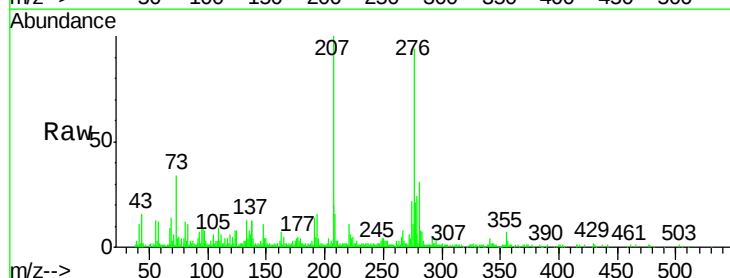
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



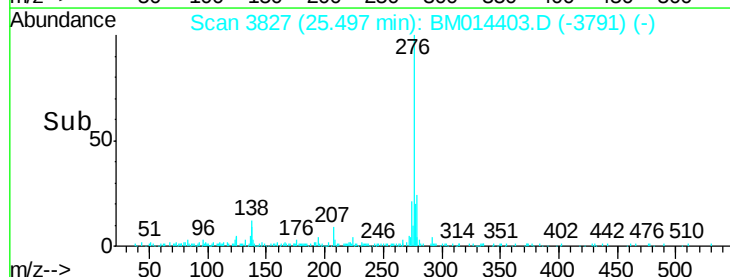
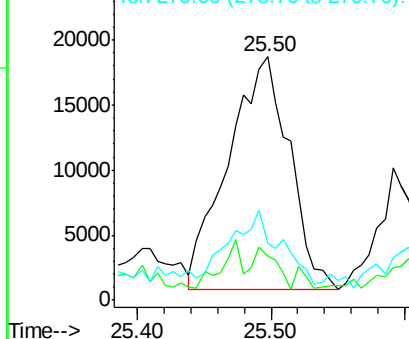
#90

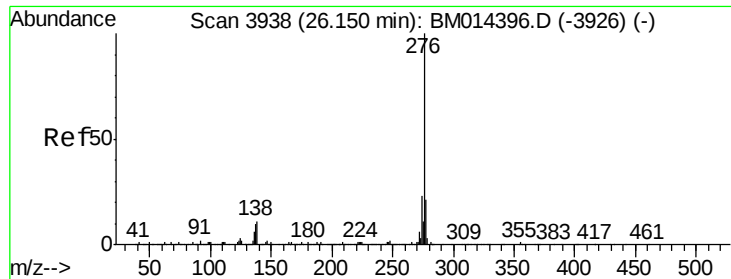
Dibenzo(a,h)anthracene  
Concen: 2.458 ng/ul  
RT: 25.50 min Scan# 3827  
Delta R.T. 0.01 min  
Lab File: BM014403.D  
Acq: 28 Feb 2018 14:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.0  | 5.8   | 8.8#  |
| 279     | 23.2  | 18.6  | 27.8  |



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#91  
 Benzo(a,h,i)perylene  
 Concen: 6.007 ng/ul  
 RT: 26.16 min Scan# 3940  
 Delta R.T. 0.02 min  
 Lab File: BM014403.D  
 Acq: 28 Feb 2018 14:36

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BE5X2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 136011 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 16.4  | 8.5   | 12.7#  |
| 277       | 22.3  | 18.6  | 28.0   |

Manual Integrations  
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