

Data Path : S:\HPCHEM1\BNA\_M\DATA\BM072015\  
 Data File : BM001985.D  
 Acq On : 20 Jul 2015 21:57  
 Operator : TP/UM  
 Sample : G3000-09  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C02B4

Manual Integrations  
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apatel  
 7/22/2015 1:52:59 PM

Quant Time: Jul 21 02:10:57 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071315.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jul 21 01:37:44 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.65  | 152  | 106633   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.45 | 136  | 441661   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.31 | 164  | 263829   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.06 | 188  | 588035   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.26 | 240  | 528632   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.49 | 264  | 446972   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.13  | 96  | 2083   | 0.96 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.82  | 99  | 51894  | 5.96 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.99  | 67  | 31760  | 6.69 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.19  | 132 | 44411  | 6.42 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.36  | 113 | 22771  | 3.18 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.82  | 128 | 21860  | 6.63 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.53  | 143 | 21233  | 5.81 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.07 | 165 | 44091  | 5.97 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.59 | 131 | 33690  | 4.43 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.72 | 166 | 146975 | 6.91 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.00 | 160 | 152346 | 5.95 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.52 | 143 | 15768  | 4.38 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.30 | 176 | 108726 | 5.98 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.44 | 200 | 1484   | 0.39 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.16 | 188 | 153516 | 5.56 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.46 | 212 | 150765 | 6.24 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.34 | 264 | 92137  | 4.08 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |       |        | Qvalue |
|--------------------------------|-------|-----|---------|-------|--------|--------|
| 14) Acetophenone               | 8.47  | 105 | 25381   | 2.25  | ng/ul  | 95     |
| 44) Dimethylphthalate          | 13.77 | 163 | 152408  | 7.04  | ng/ul  | 99     |
| 69) Phenanthrene               | 17.10 | 178 | 164448  | 5.16  | ng/ul  | 99     |
| 71) Anthracene                 | 17.19 | 178 | 38012   | 1.16  | ng/ul  | 98     |
| 76) Fluoranthene               | 19.12 | 202 | 333751  | 8.96  | ng/ul  | 97     |
| 79) Pyrene                     | 19.49 | 202 | 297652  | 9.41  | ng/ul  | 98     |
| 82) Benzo(a)anthracene         | 21.24 | 228 | 144796  | 4.60  | ng/ul  | 97     |
| 83) Bis(2-ethylhexyl)phthalate | 21.17 | 149 | 232954  | 13.21 | ng/ul  | 100    |
| 84) Chrysene                   | 21.29 | 228 | 146079m | 4.96  | ng/ul  |        |
| 87) Benzo(b)fluoranthene       | 22.82 | 252 | 178875  | 6.53  | ng/ul# | 96     |
| 88) Benzo(k)fluoranthene       | 22.85 | 252 | 57768m  | 2.19  | ng/ul  |        |
| 90) Benzo(a)pyrene             | 23.39 | 252 | 104798  | 4.07  | ng/ul# | 96     |
| 91) Indeno(1,2,3-cd)pyrene     | 25.73 | 276 | 77831   | 2.88  | ng/ul  | 96     |
| 93) Benzo(g,h,i)perylene       | 26.42 | 276 | 75172   | 3.39  | ng/ul  | 98     |

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

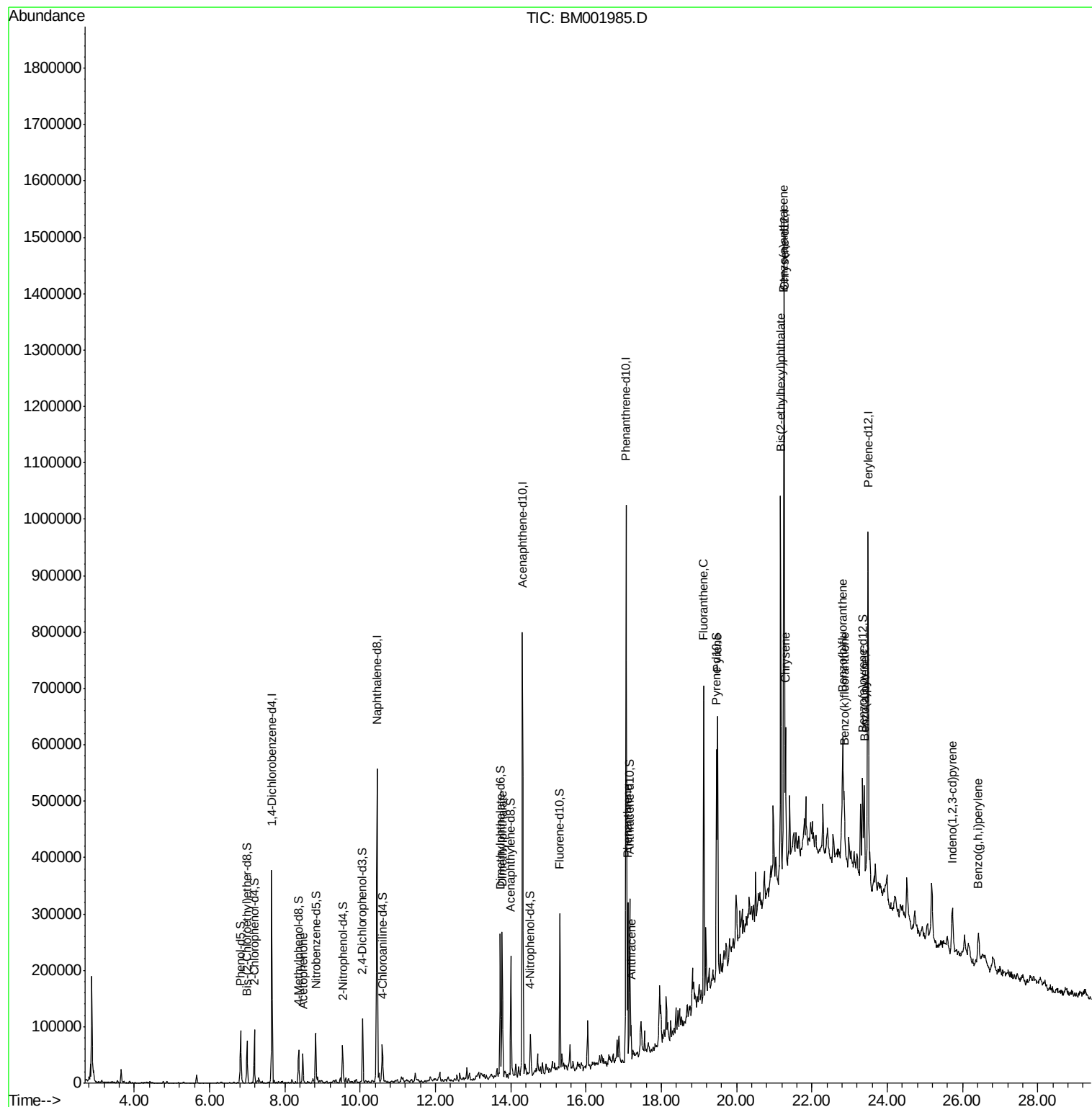
Data Path : S:\HPCHEM1\BNA\_M\DATA\BM072015\  
Data File : BM001985.D  
Acq On : 20 Jul 2015 21:57  
Operator : TP/UM  
Sample : G3000-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

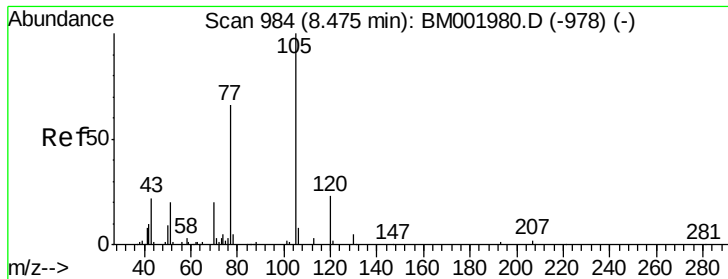
Instrument :  
BNA\_M  
ClientSampleId :  
C02B4

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Quant Time: Jul 21 02:10:57 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071315.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jul 21 01:37:44 2015  
Response via : Initial Calibration





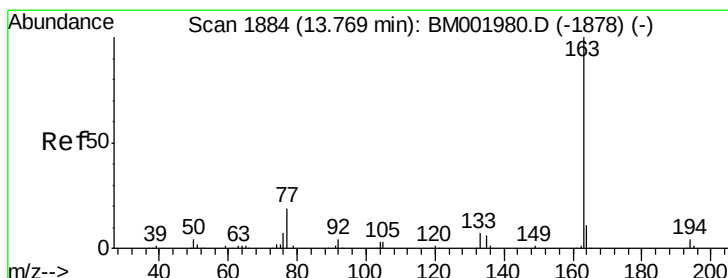
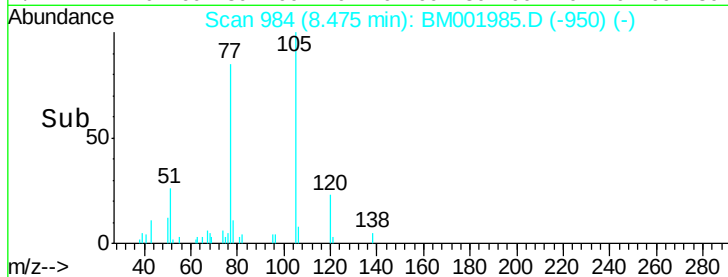
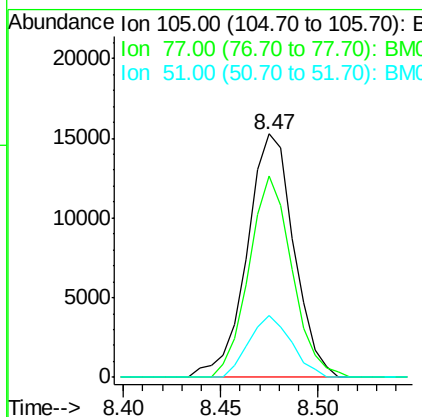
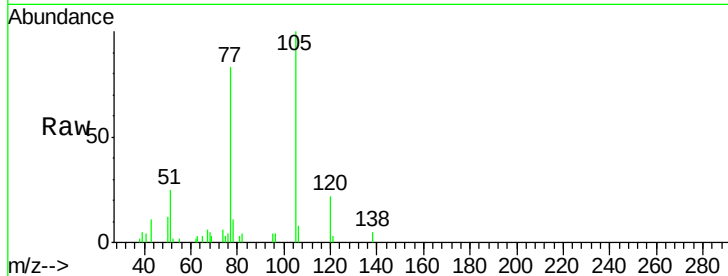
#14  
Acetophenone  
Concen: 2.25 ng/ul  
RT: 8.47 min Scan# 984  
Delta R.T. -0.00 min  
Lab File: BM001985.D  
Acq: 20 Jul 2015 21:57

Instrument :  
BNA\_M  
ClientSampleId :  
C02B4

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 105     | 100   | 25381 |       |       |
| 77      | 82.7  | 61.7  | 92.5  |       |
| 51      | 25.2  | 20.2  | 30.4  |       |

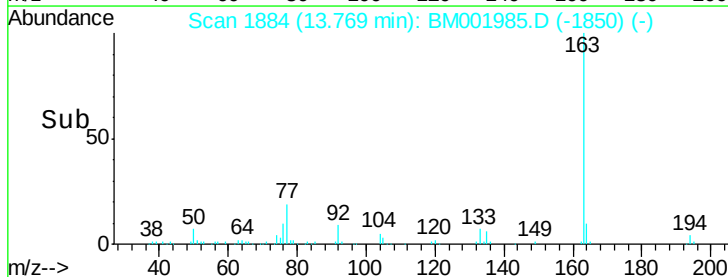
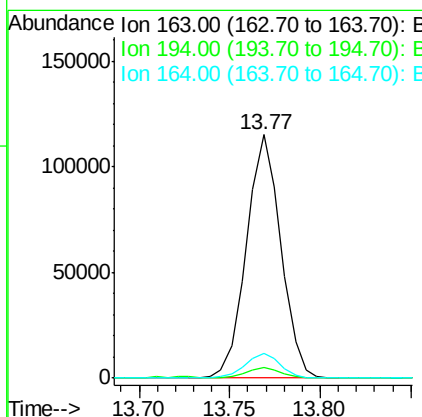
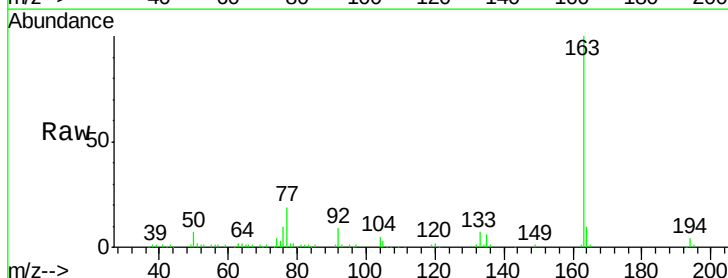
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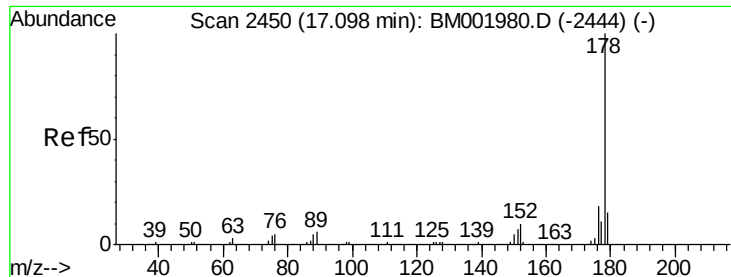
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#44  
Dimethylphthalate  
Concen: 7.04 ng/ul  
RT: 13.77 min Scan# 1884  
Delta R.T. -0.00 min  
Lab File: BM001985.D  
Acq: 20 Jul 2015 21:57

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 152408 |       |       |
| 194     | 4.2   | 3.3    | 4.9   |       |
| 164     | 10.2  | 7.6    | 11.4  |       |





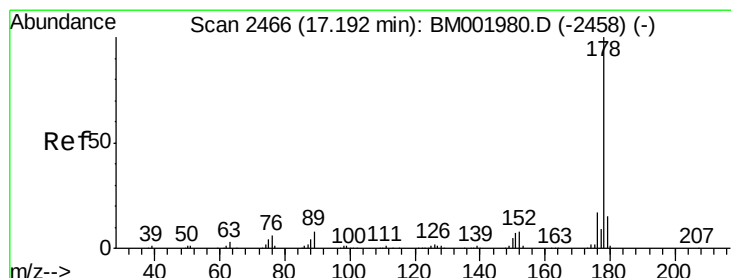
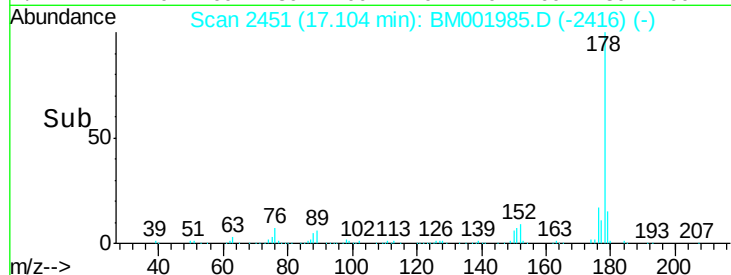
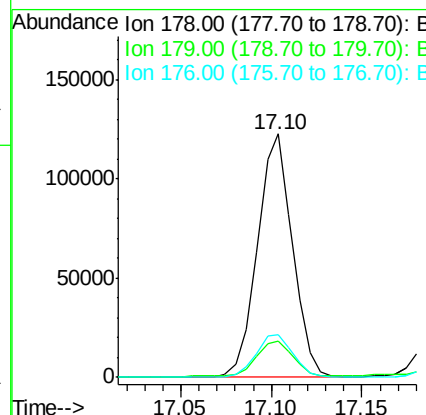
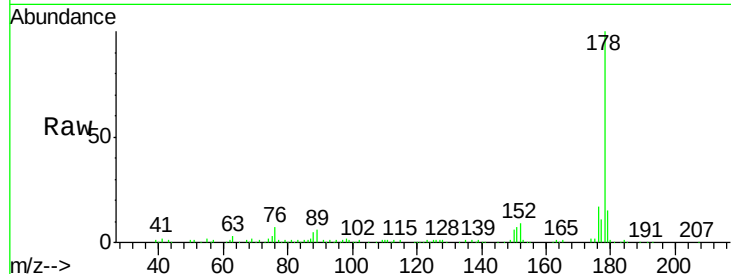
#69  
Phenanthrene  
Concen: 5.16 ng/ul  
RT: 17.10 min Scan# 2451  
Delta R.T. 0.01 min  
Lab File: BM001985.D  
Acq: 20 Jul 2015 21:57

Instrument :  
BNA\_M  
ClientSampleId :  
C02B4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.9  | 12.2  | 18.2  |
| 176     | 17.4  | 14.5  | 21.7  |

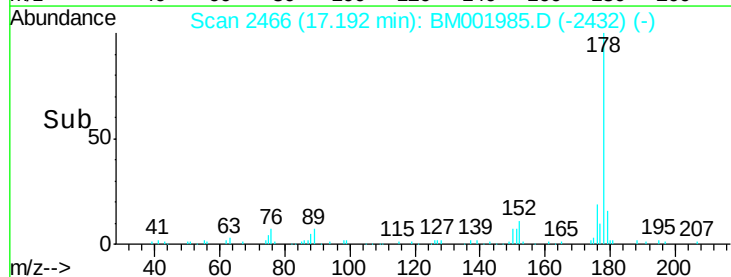
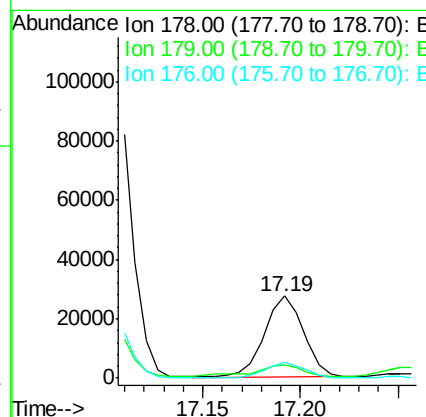
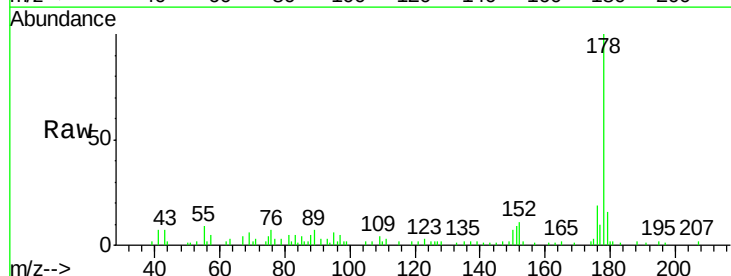
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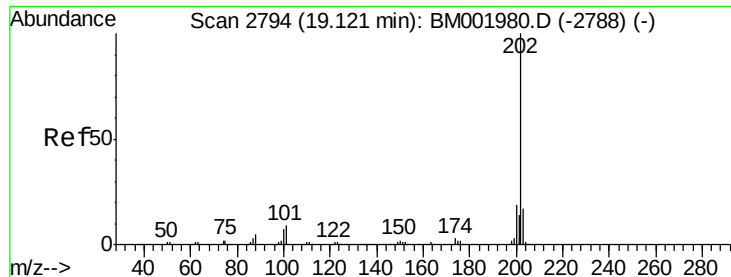
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#71  
Anthracene  
Concen: 1.16 ng/ul  
RT: 17.19 min Scan# 2466  
Delta R.T. -0.00 min  
Lab File: BM001985.D  
Acq: 20 Jul 2015 21:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.0  | 12.4  | 18.6  |
| 176     | 19.1  | 14.2  | 21.4  |





#76

Fluoranthene

Concen: 8.96 ng/ul

RT: 19.12 min Scan# 2794

Delta R.T. -0.00 min

Lab File: BM001985.D

Acq: 20 Jul 2015 21:57

Instrument :

BNA\_M

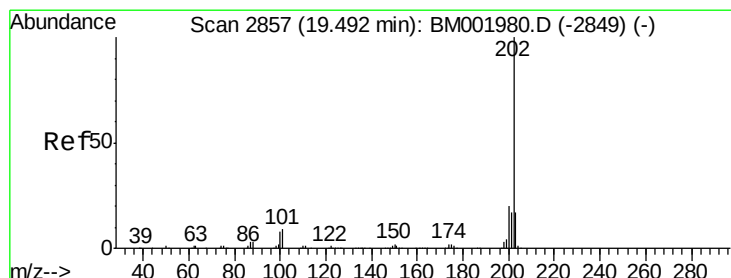
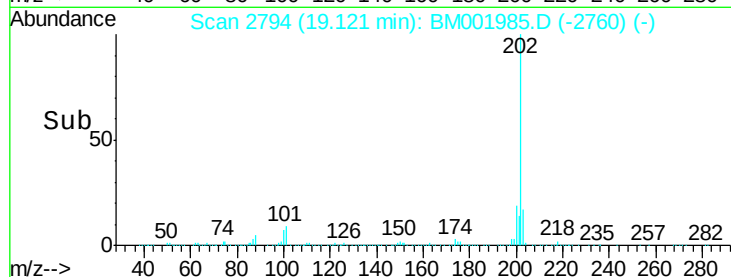
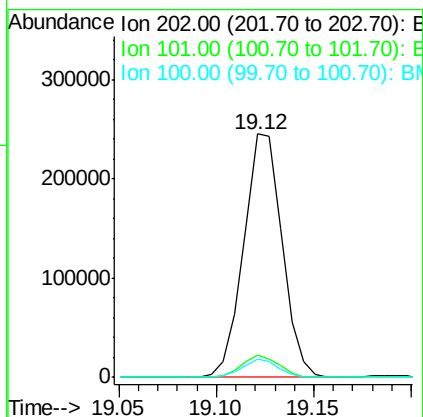
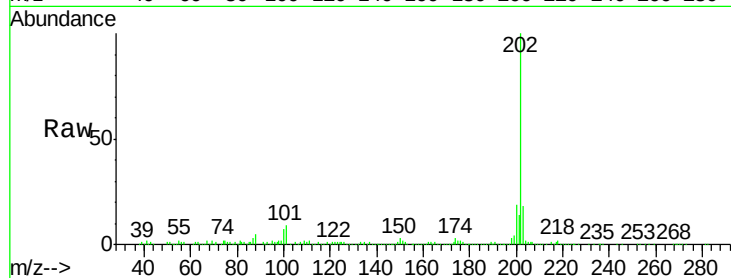
ClientSampleId :

C02B4

| Tgt | Ion | Ratio | Resp   | Lower | Upper |
|-----|-----|-------|--------|-------|-------|
| 202 | 100 |       | 333751 |       |       |
| 101 | 9.2 | 6.6   | 9.8    |       |       |
| 100 | 7.3 | 5.2   | 7.8    |       |       |

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#79

Pyrene

Concen: 9.41 ng/ul

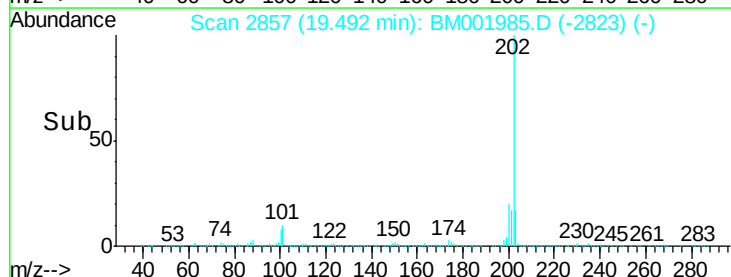
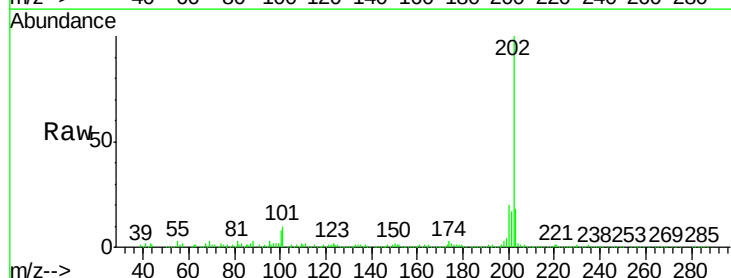
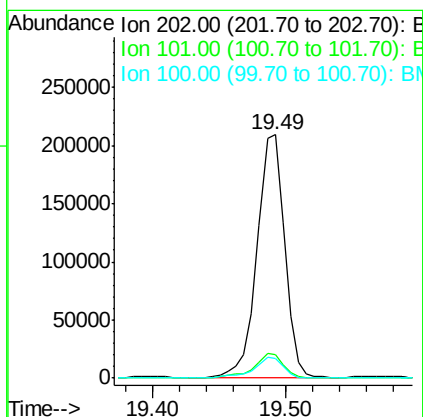
RT: 19.49 min Scan# 2857

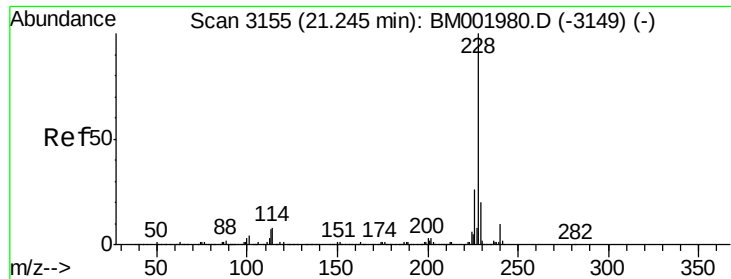
Delta R.T. -0.00 min

Lab File: BM001985.D

Acq: 20 Jul 2015 21:57

| Tgt | Ion | Ratio | Resp   | Lower | Upper |
|-----|-----|-------|--------|-------|-------|
| 202 | 100 |       | 297652 |       |       |
| 101 | 9.9 | 7.4   | 11.0   |       |       |
| 100 | 8.3 | 5.9   | 8.9    |       |       |





#82

Benzo(a)anthracene

Concen: 4.60 ng/ul

RT: 21.24 min Scan# 3155

Delta R.T. -0.00 min

Lab File: BM001985.D

Acq: 20 Jul 2015 21:57

Instrument :

BNA\_M

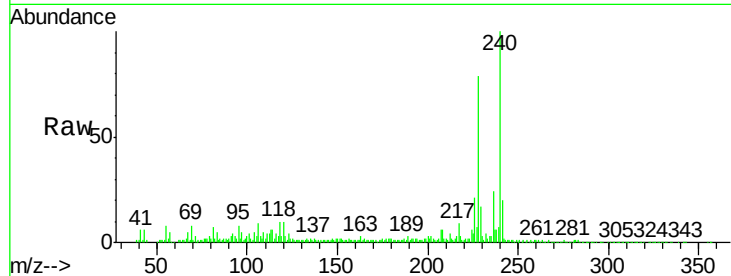
ClientSampled :

C02B4

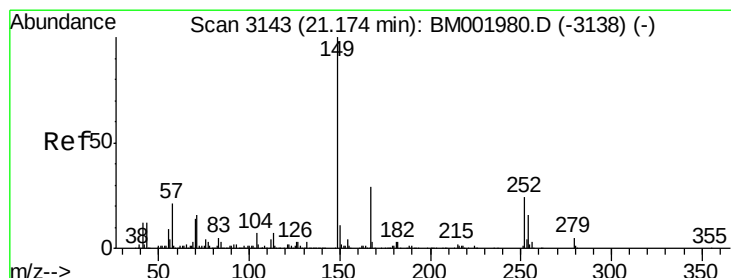
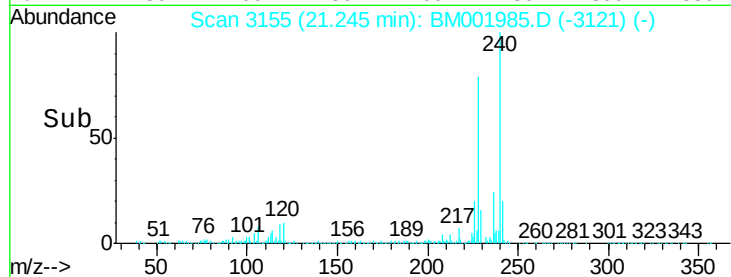
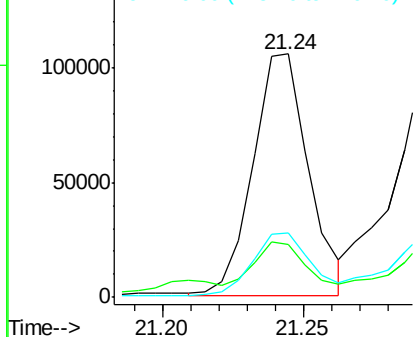
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 144796 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 22.0  | 15.2  | 22.8   |
| 226       | 26.4  | 20.8  | 31.2   |

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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



#83

Bis(2-ethylhexyl)phthalate

Concen: 13.21 ng/ul

RT: 21.17 min Scan# 3142

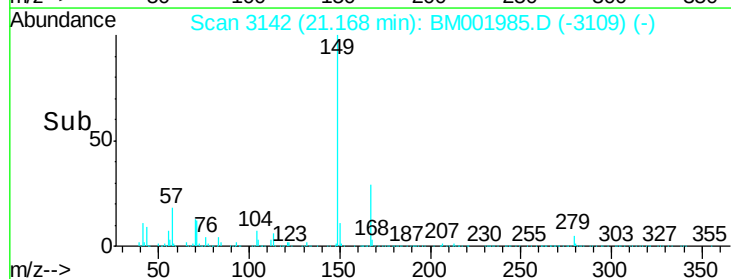
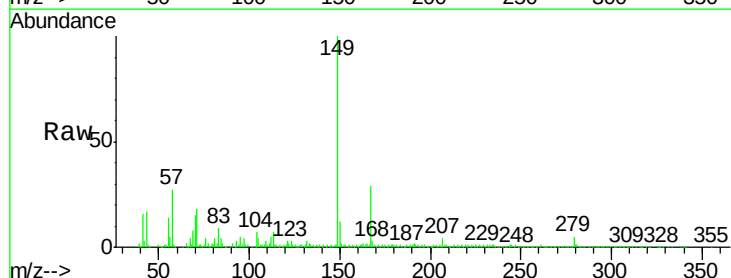
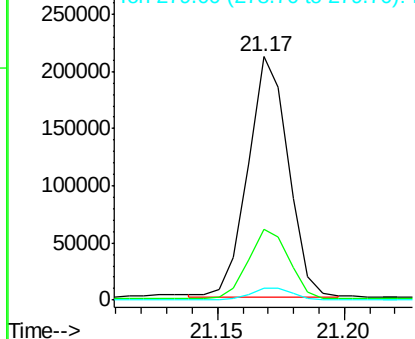
Delta R.T. -0.01 min

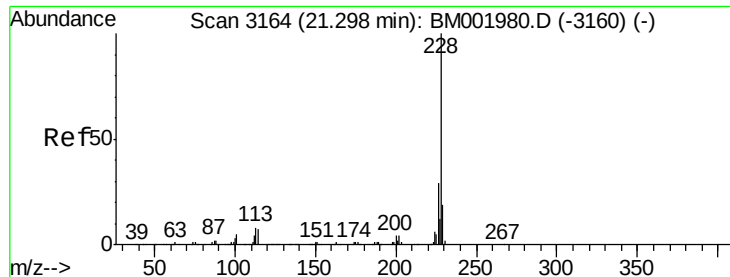
Lab File: BM001985.D

Acq: 20 Jul 2015 21:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 232954 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 29.0  | 23.4  | 35.0   |
| 279       | 4.9   | 4.0   | 6.0    |

Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E





#84

Chrysene

Concen: 4.96 ng/ul m

RT: 21.29 min Scan# 3163

Delta R.T. -0.01 min

Lab File: BM001985.D

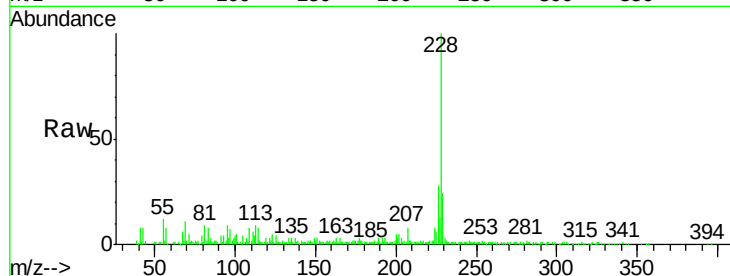
Acq: 20 Jul 2015 21:57

Instrument :

BNA\_M

ClientSampled :

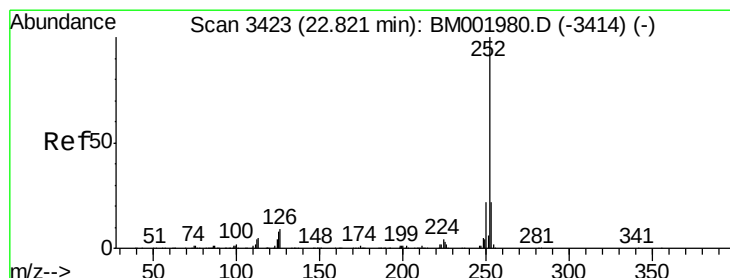
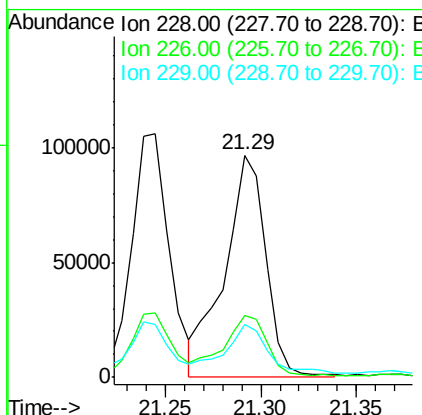
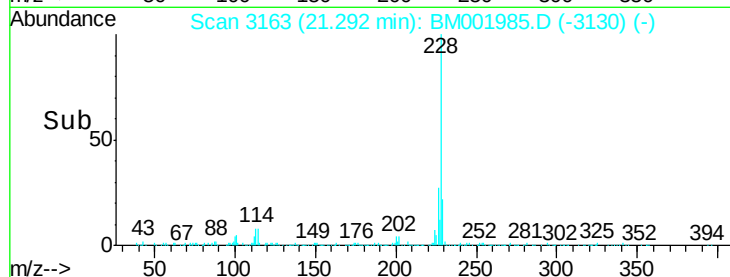
C02B4



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 146079 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 27.7  | 22.6  | 33.8   |
| 229       | 23.5  | 15.4  | 23.0#  |

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#87

Benzo(b)fluoranthene

Concen: 6.53 ng/ul

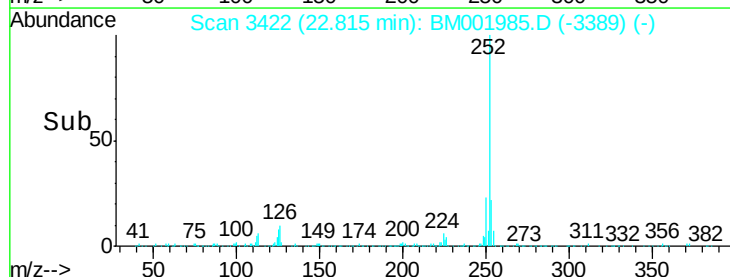
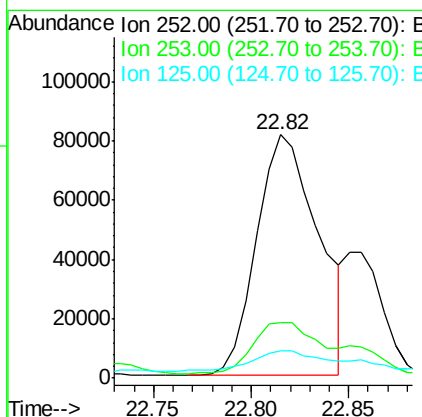
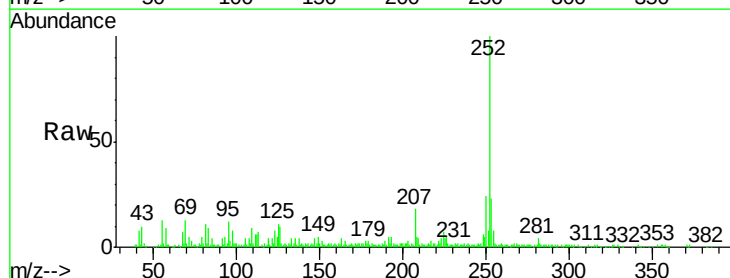
RT: 22.82 min Scan# 3422

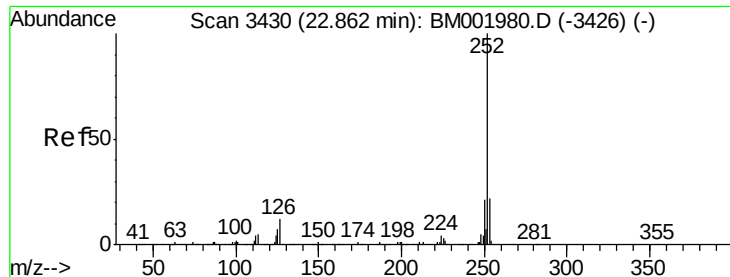
Delta R.T. -0.01 min

Lab File: BM001985.D

Acq: 20 Jul 2015 21:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 178875 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 17.6  | 26.4   |
| 125       | 11.2  | 6.1   | 9.1#   |





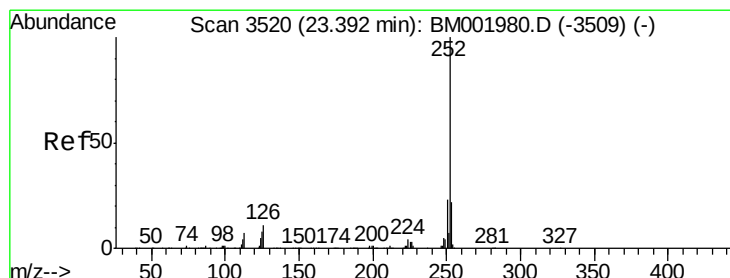
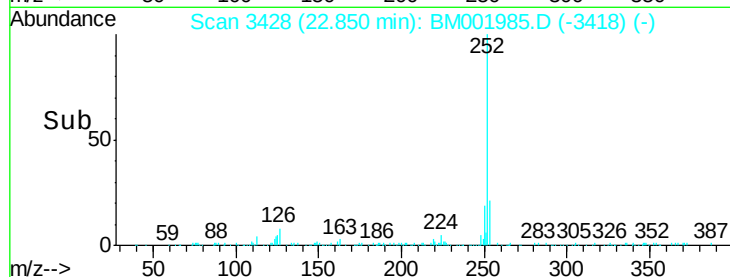
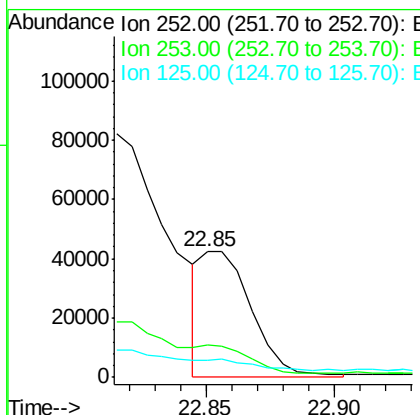
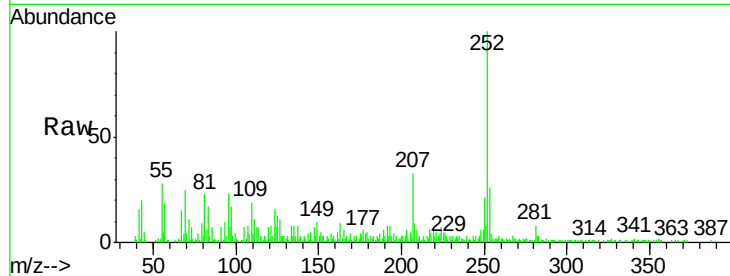
#88  
Benzo(k)fluoranthene  
Concen: 2.19 ng/ul m  
RT: 22.85 min Scan# 3428  
Delta R.T. -0.01 min  
Lab File: BM001985.D  
Acq: 20 Jul 2015 21:57

Instrument :  
BNA\_M  
ClientSampleId :  
C02B4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 17.1  | 25.7# |
| 125     | 13.2  | 5.6   | 8.4#  |

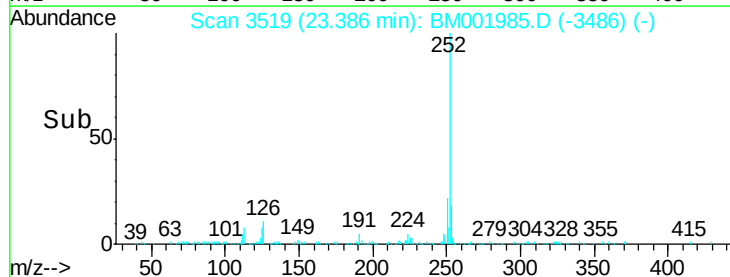
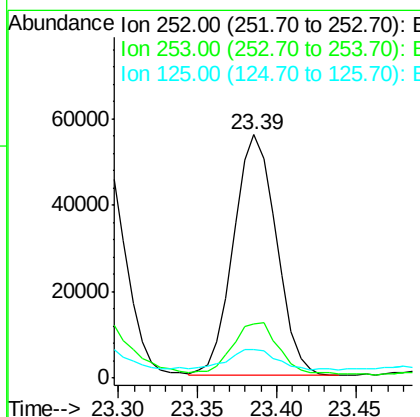
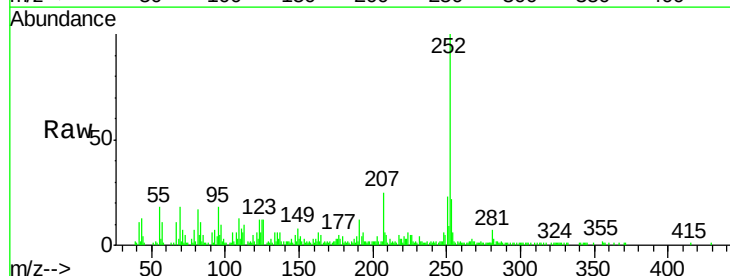
Manual Integrations  
APPROVED

apatel  
7/22/2015 1:52:59 PM

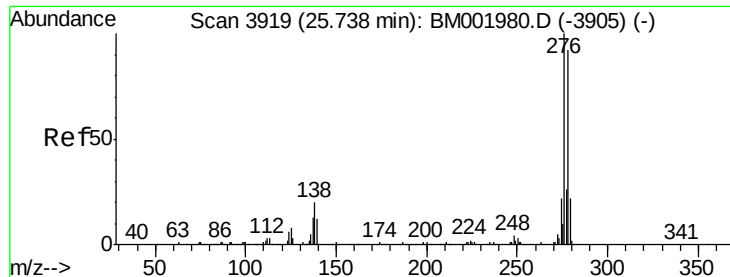


#90  
Benzo(a)pyrene  
Concen: 4.07 ng/ul  
RT: 23.39 min Scan# 3519  
Delta R.T. -0.01 min  
Lab File: BM001985.D  
Acq: 20 Jul 2015 21:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 17.4  | 26.2  |
| 125     | 11.8  | 6.4   | 9.6#  |







#91

Indeno(1,2,3-cd)pyrene

Concen: 2.88 ng/ul

RT: 25.73 min Scan# 3917

Delta R.T. -0.01 min

Lab File: BM001985.D

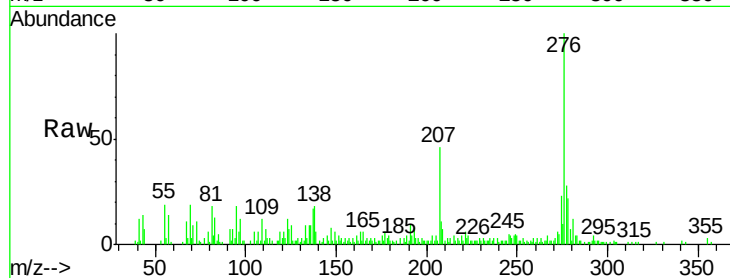
Acq: 20 Jul 2015 21:57

Instrument :

BNA\_M

ClientSampleId :

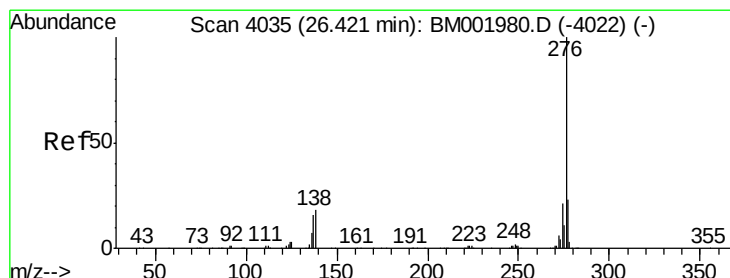
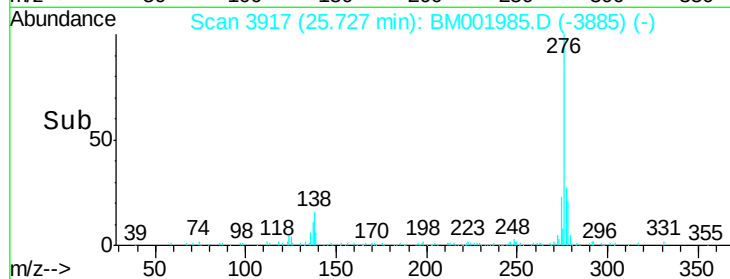
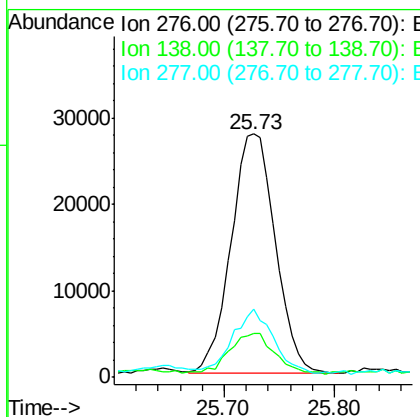
C02B4



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 77831 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 18.1  | 15.4  | 23.0  |
| 277       | 27.9  | 19.9  | 29.9  |

Manual Integrations  
APPROVED

apatel  
7/22/2015 1:52:59 PM



#93

Benzo(g,h,i)perylene

Concen: 3.39 ng/ul

RT: 26.42 min Scan# 4035

Delta R.T. -0.00 min

Lab File: BM001985.D

Acq: 20 Jul 2015 21:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 75172 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 16.2  | 13.3  | 19.9  |
| 277       | 24.7  | 18.6  | 27.8  |

