

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\  
 Data File : BM002773.D  
 Acq On : 30 Sep 2015 07:47  
 Operator : UM/IZ  
 Sample : G3838-12  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 E5MX0

Manual Integrations  
 APPROVED

MMDadoda  
 9/30/2015 4:39:51 PM

Quant Time: Sep 30 08:20:10 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM092915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Sep 30 06:48:30 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.70  | 152  | 94720    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.56 | 136  | 404631   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 15.29 | 164  | 200345   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 18.00 | 188  | 397585   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 22.09 | 240  | 412333   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.68 | 264  | 414797   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.77  | 96  | 8439   | 4.14  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.82  | 99  | 178434 | 24.86 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.99  | 67  | 118068 | 29.24 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 8.22  | 132 | 178305 | 26.69 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.40  | 113 | 133409 | 22.55 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.89  | 128 | 91567  | 29.67 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.62 | 143 | 96230  | 29.84 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 11.16 | 165 | 153282 | 26.93 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.69 | 131 | 156326 | 22.82 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.67 | 166 | 456754 | 30.30 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 15.00 | 160 | 609575 | 30.30 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 15.46 | 143 | 65019  | 24.29 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 16.27 | 176 | 399593 | 29.43 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 16.39 | 200 | 31529  | 16.26 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 18.10 | 188 | 571657 | 30.13 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 20.33 | 212 | 582730 | 30.28 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.51 | 264 | 646102 | 30.45 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |        |       |        | Ovalue |
|----------------------------|-------|-----|--------|-------|--------|--------|
| 4) Benzaldehyde            | 7.81  | 77  | 145875 | 36.23 | ng/ul  | 99     |
| 14) Acetophenone           | 9.53  | 105 | 113864 | 12.79 | ng/ul  | 98     |
| 45) Dimethylphthalate      | 14.72 | 163 | 240326 | 15.68 | ng/ul  | 100    |
| 67) Hexachlorobenzene      | 17.32 | 284 | 21761  | 4.63  | ng/ul  | 98     |
| 70) Phenanthrene           | 18.04 | 178 | 119175 | 5.18  | ng/ul  | 100    |
| 72) Anthracene             | 18.14 | 178 | 29772  | 1.27  | ng/ul  | 98     |
| 76) Di-n-butylphthalate    | 18.90 | 149 | 37832  | 1.45  | ng/ul# | 76     |
| 77) Fluoranthene           | 20.00 | 202 | 263577 | 11.10 | ng/ul  | 99     |
| 80) Pyrene                 | 20.36 | 202 | 232081 | 8.86  | ng/ul  | 99     |
| 83) Benzo(a)anthracene     | 22.07 | 228 | 105362 | 4.30  | ng/ul  | 100    |
| 85) Chrysene               | 22.13 | 228 | 130215 | 5.63  | ng/ul  | 97     |
| 88) Benzo(b)fluoranthene   | 23.88 | 252 | 186156 | 7.47  | ng/ul  | 97     |
| 89) Benzo(k)fluoranthene   | 23.93 | 252 | 57218m | 2.43  | ng/ul  |        |
| 91) Benzo(a)pyrene         | 24.56 | 252 | 112417 | 4.70  | ng/ul# | 95     |
| 92) Indeno(1,2,3-cd)pyrene | 27.39 | 276 | 96683  | 3.46  | ng/ul  | 95     |
| 94) Benzo(g,h,i)perylene   | 28.24 | 276 | 96786  | 4.12  | ng/ul  | 98     |

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

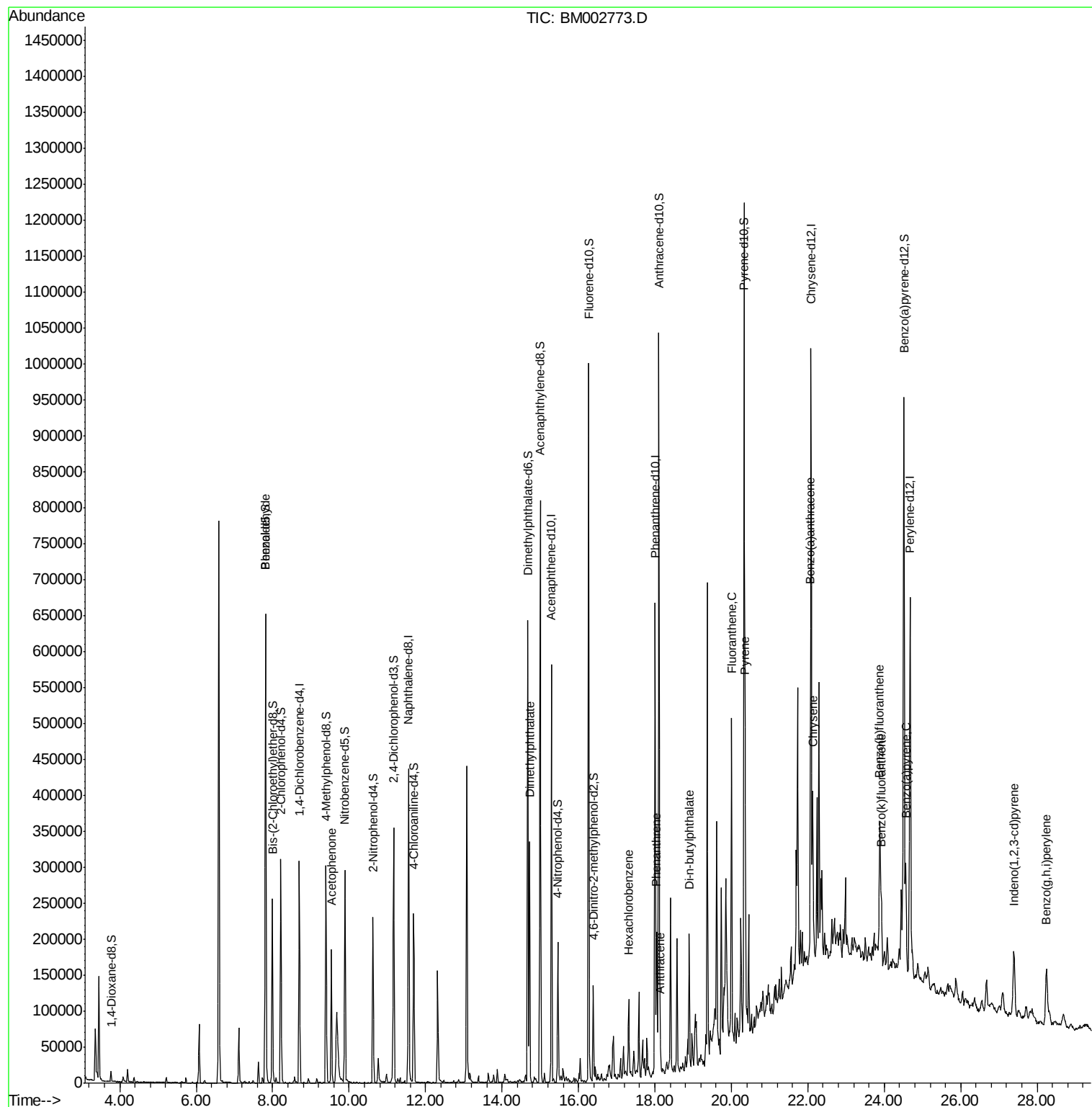
Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\  
Data File : BM002773.D  
Acq On : 30 Sep 2015 07:47  
Operator : UM/IZ  
Sample : G3838-12  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

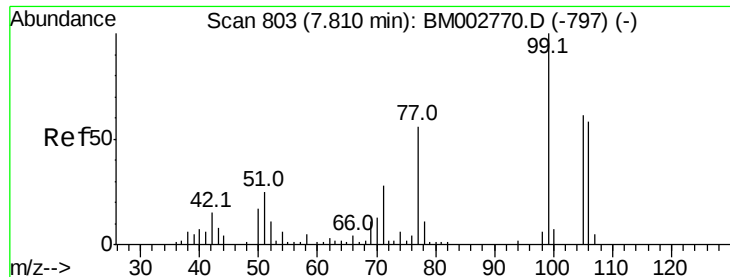
Instrument :  
BNA\_M  
ClientSampleId :  
E5MX0

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Quant Time: Sep 30 08:20:10 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM092915.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Sep 30 06:48:30 2015  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 36.23 ng/ul

RT: 7.81 min Scan# 803

Delta R.T. -0.00 min

Lab File: BM002773.D

Acq: 30 Sep 2015 07:47

Instrument :

BNA\_M

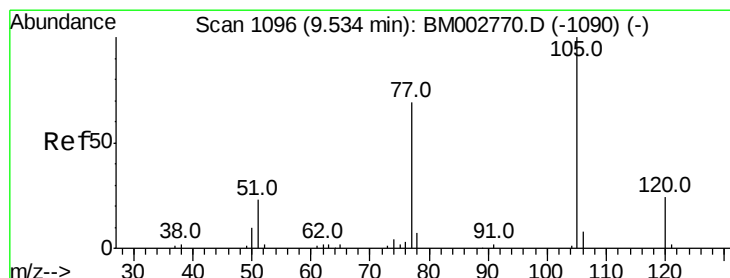
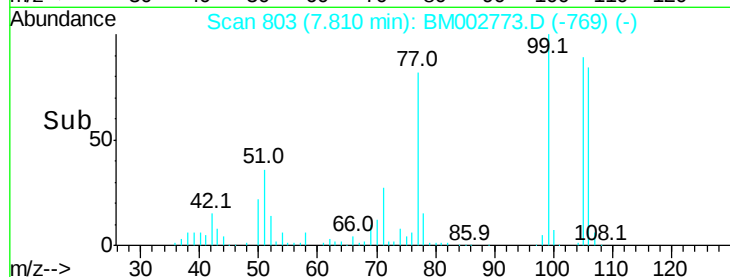
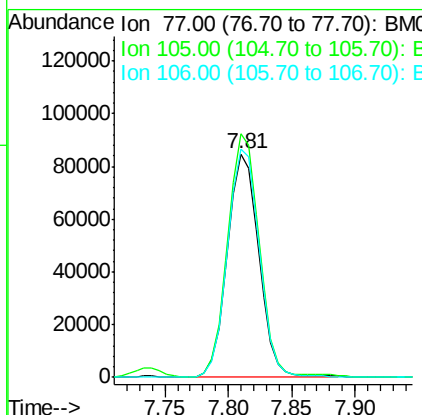
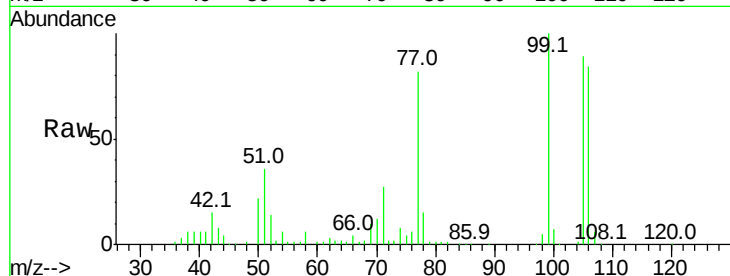
ClientSampleId :

E5MX0

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 77    | Resp: | 145875 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 105       | 109.0 | 86.2  | 129.2  |
| 106       | 102.2 | 82.5  | 123.7  |

Manual Integrations  
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#14

Acetophenone

Concen: 12.79 ng/ul

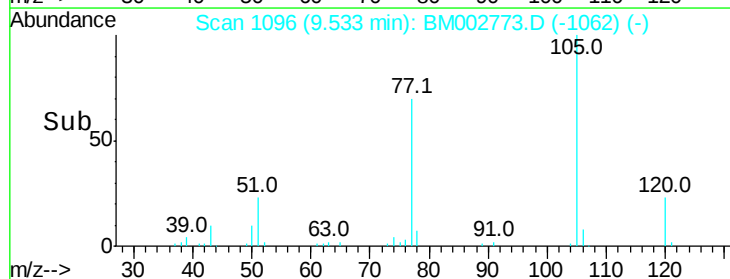
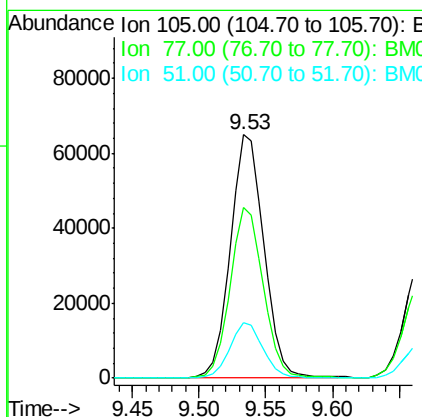
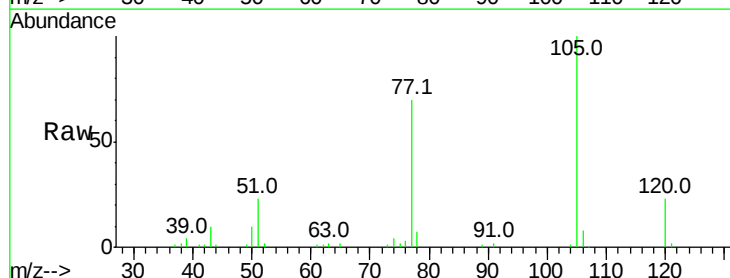
RT: 9.53 min Scan# 1096

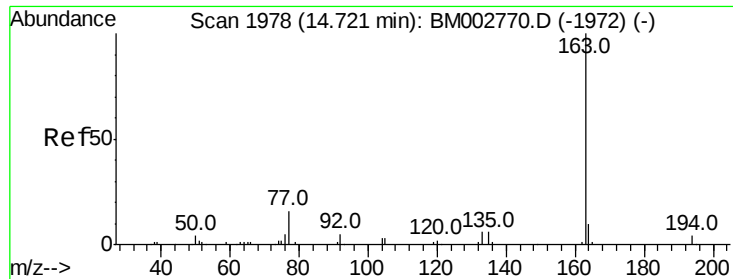
Delta R.T. -0.00 min

Lab File: BM002773.D

Acq: 30 Sep 2015 07:47

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 113864 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 77        | 69.9  | 54.5  | 81.7   |
| 51        | 22.9  | 17.6  | 26.4   |





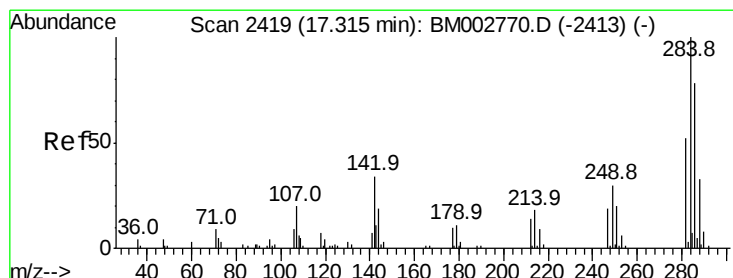
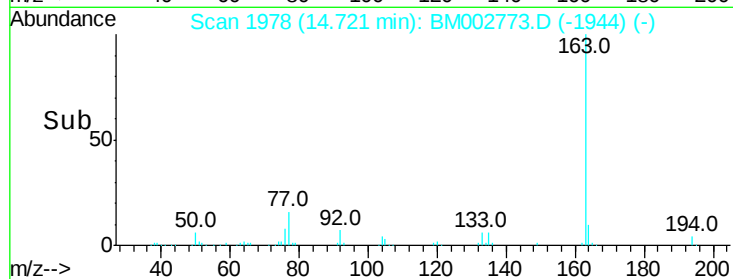
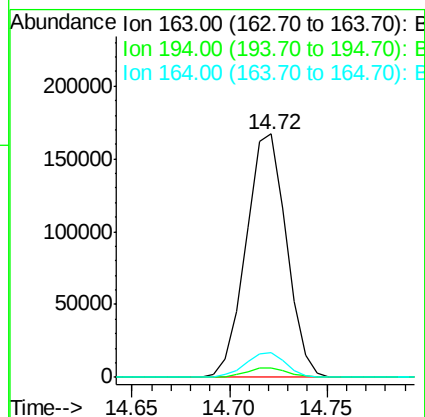
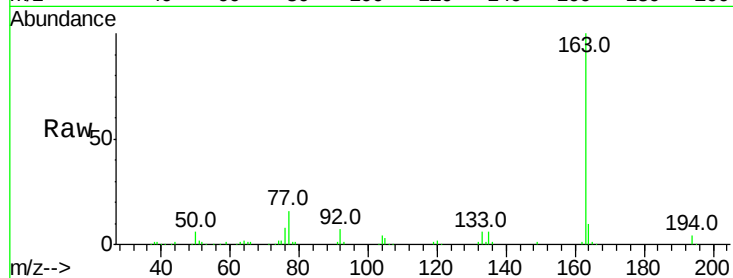
#45  
Dimethylphthalate  
Concen: 15.68 ng/ul  
RT: 14.72 min Scan# 1978  
Delta R.T. -0.00 min  
Lab File: BM002773.D  
Acq: 30 Sep 2015 07:47

Instrument :  
BNA\_M  
ClientSampleId :  
E5MX0

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 240326 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.1   | 3.2   | 4.8    |
| 164       | 10.1  | 8.1   | 12.1   |

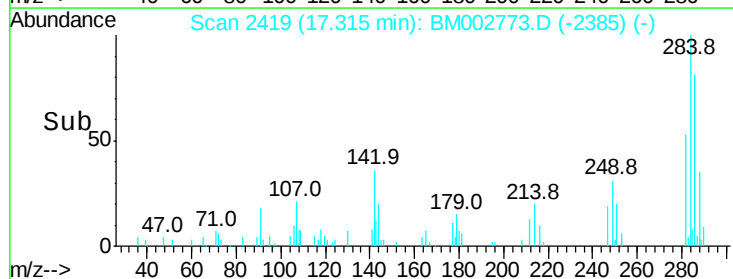
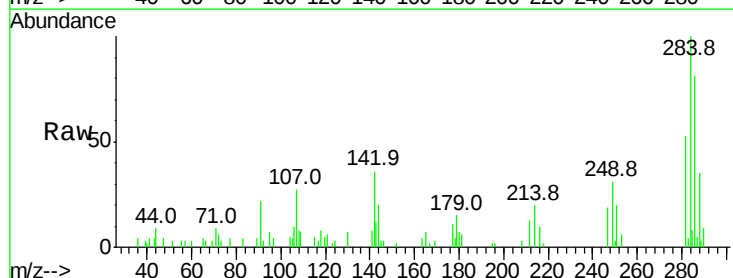
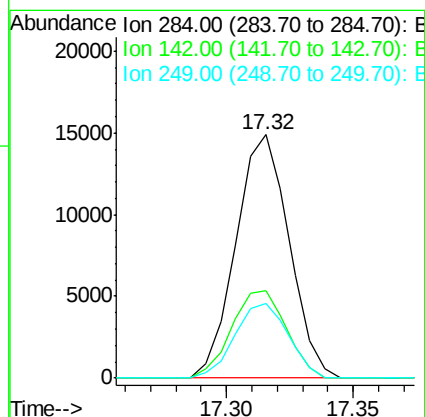
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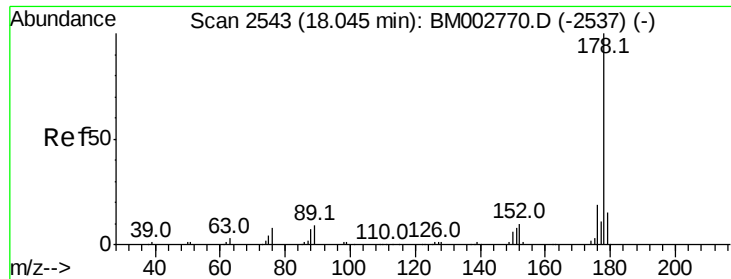
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#67  
Hexachlorobenzene  
Concen: 4.63 ng/ul  
RT: 17.32 min Scan# 2419  
Delta R.T. -0.00 min  
Lab File: BM002773.D  
Acq: 30 Sep 2015 07:47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 284   | Resp: | 21761 |
| Ion Ratio | Lower | Upper |       |
| 284       | 100   |       |       |
| 142       | 35.7  | 27.5  | 41.3  |
| 249       | 30.8  | 24.2  | 36.2  |





#70

Phenanthrene

Concen: 5.18 ng/ul

RT: 18.04 min Scan# 2543

Delta R.T. -0.00 min

Lab File: BM002773.D

Acq: 30 Sep 2015 07:47

Instrument :

BNA\_M

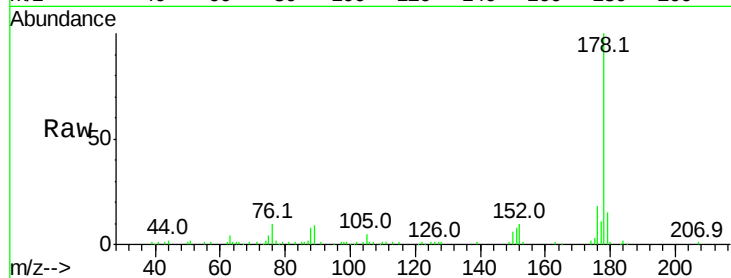
ClientSampled :

E5MX0

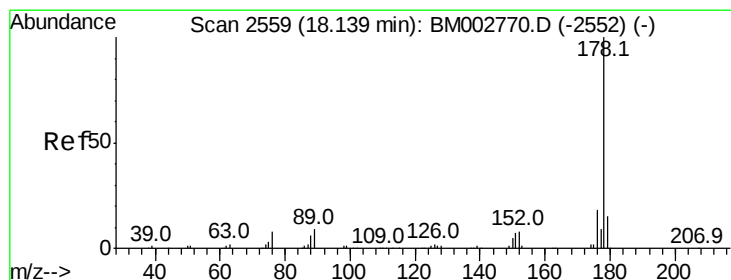
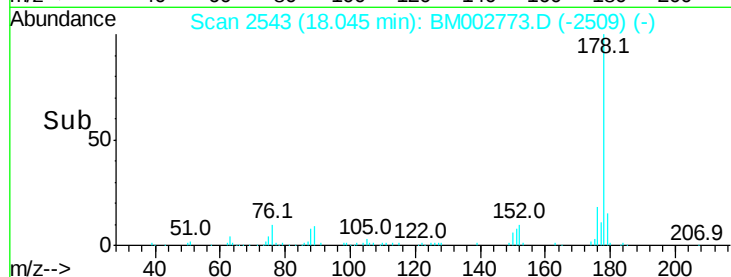
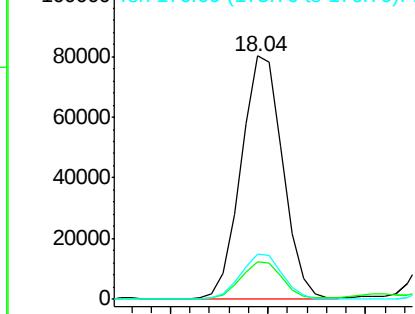
|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 119175    |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 15.2  | 12.0 18.0 |
| 176         | 18.3  | 14.6 22.0 |

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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



#72

Anthracene

Concen: 1.27 ng/ul

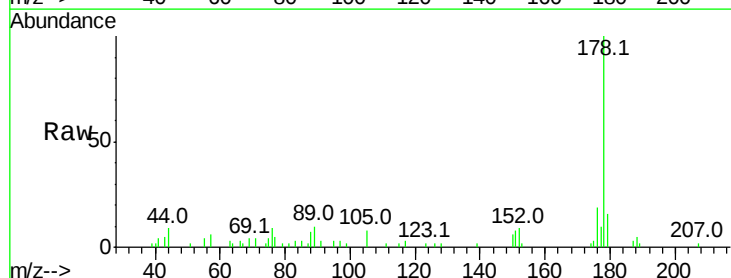
RT: 18.14 min Scan# 2559

Delta R.T. -0.00 min

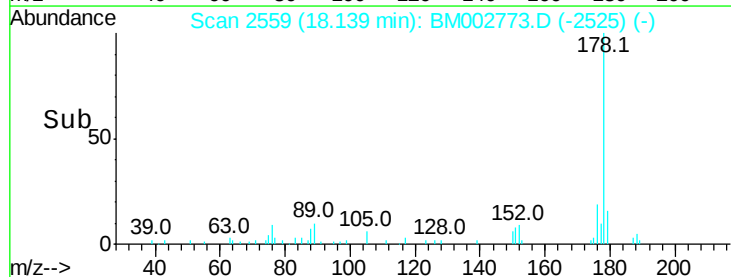
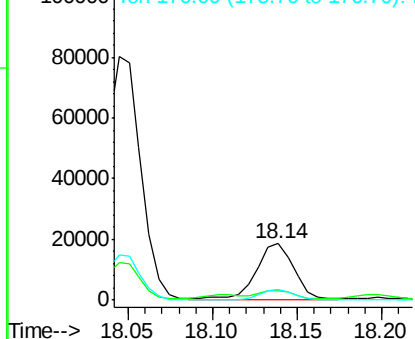
Lab File: BM002773.D

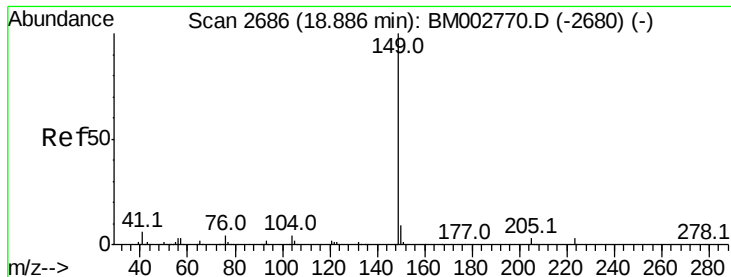
Acq: 30 Sep 2015 07:47

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 29772     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 15.7  | 11.9 17.9 |
| 176         | 18.7  | 14.4 21.6 |



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





#76

Di-n-butylphthalate

Concen: 1.45 ng/ul

RT: 18.90 min Scan# 2688

Delta R.T. 0.01 min

Lab File: BM002773.D

Acq: 30 Sep 2015 07:47

Instrument :

BNA\_M

ClientSampleId :

E5MX0

Tot Ion:149 Resp: 37832

Ion Ratio Lower Upper

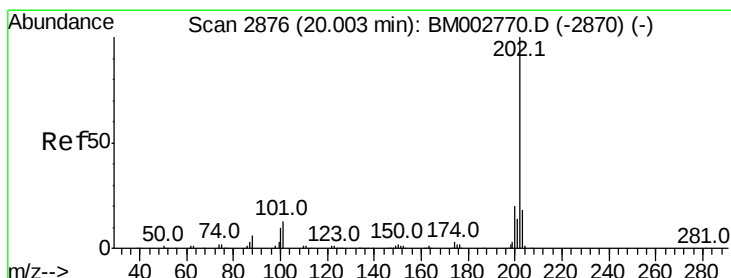
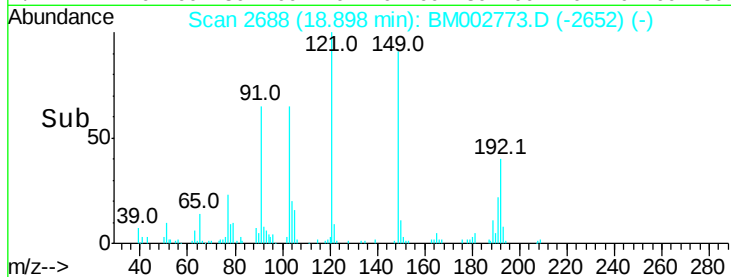
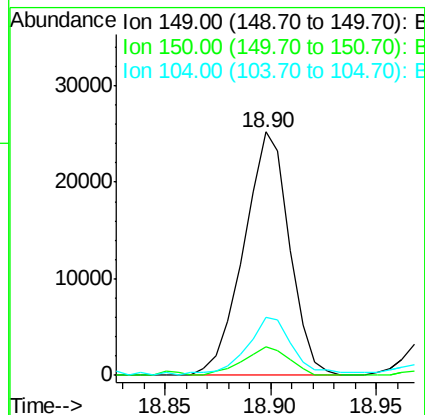
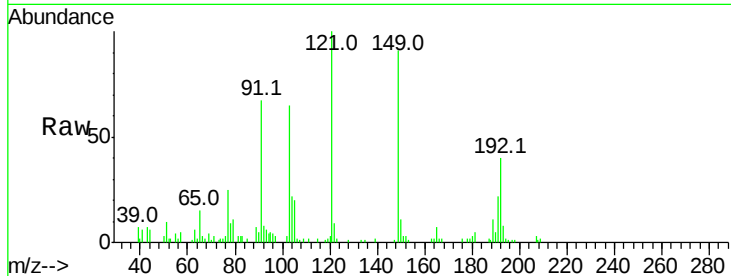
149 100

150 11.6 7.1 10.7#

104 23.6 3.3 4.9#

Manual Integrations  
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9/30/2015 4:39:51 PM



#77

Fluoranthene

Concen: 11.10 ng/ul

RT: 20.00 min Scan# 2876

Delta R.T. -0.00 min

Lab File: BM002773.D

Acq: 30 Sep 2015 07:47

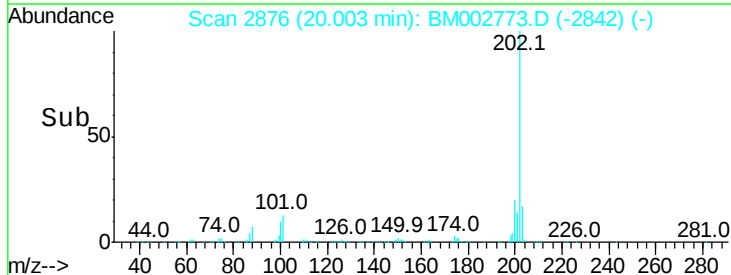
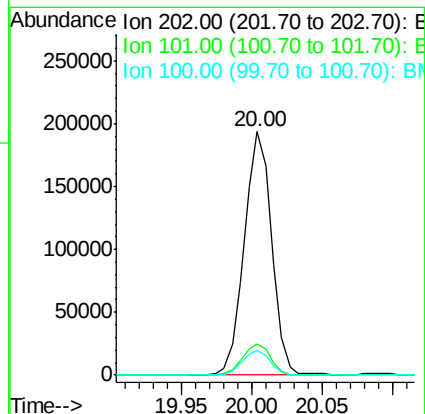
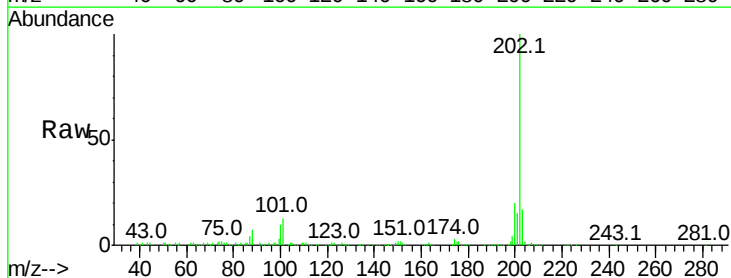
Tgt Ion:202 Resp: 263577

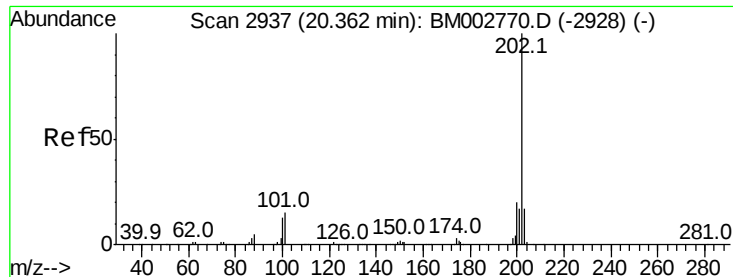
Ion Ratio Lower Upper

202 100

101 12.8 11.0 16.4

100 10.3 8.3 12.5





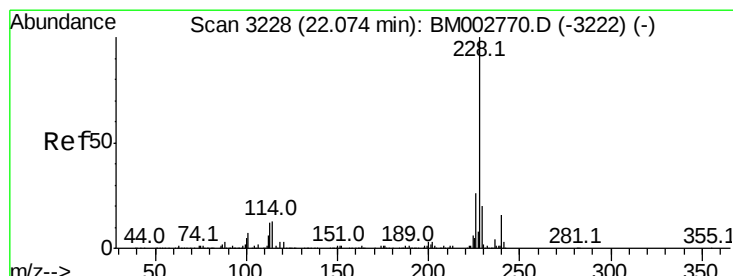
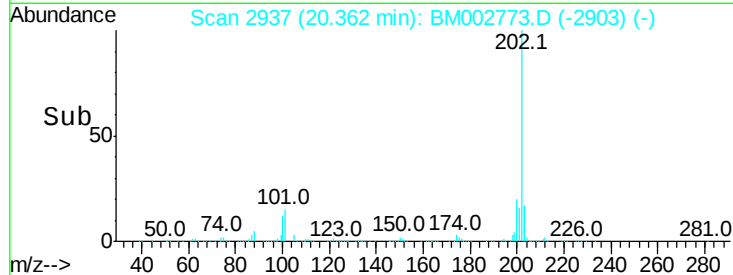
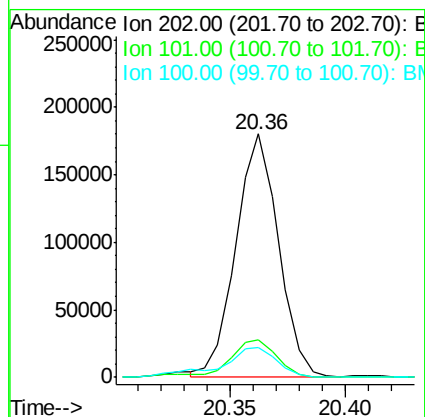
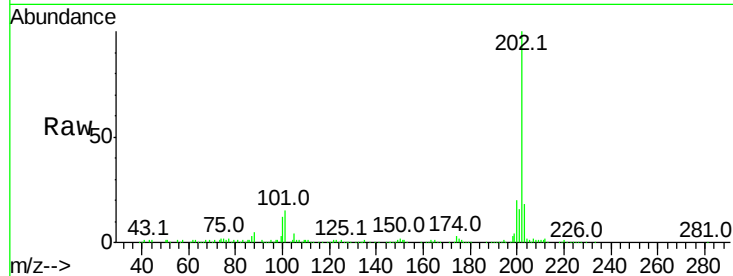
#80  
Pvrene  
Concen: 8.86 ng/ul  
RT: 20.36 min Scan# 2937  
Delta R.T. -0.00 min  
Lab File: BM002773.D  
Acq: 30 Sep 2015 07:47

Instrument :  
BNA\_M  
ClientSampleId :  
E5MX0

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 232081 |       |       |
| 101     | 15.3 | 12.1  | 18.1   |       |       |
| 100     | 12.4 | 10.2  | 15.4   |       |       |

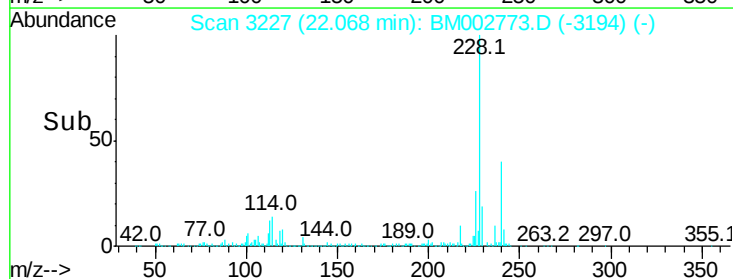
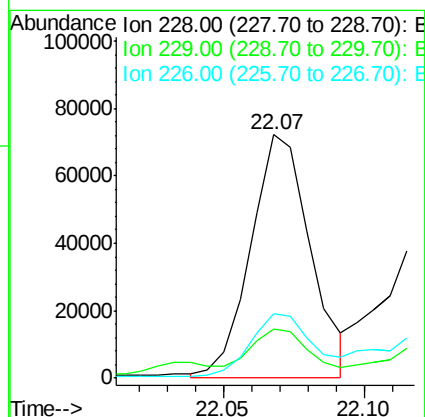
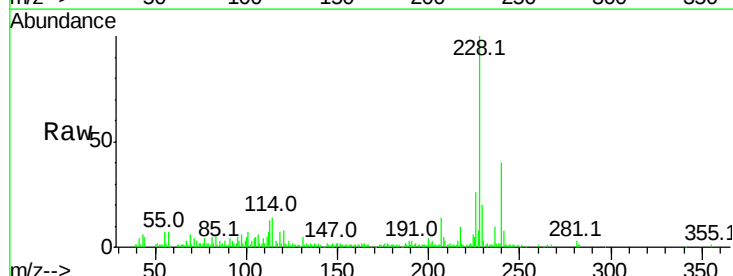
Manual Integrations  
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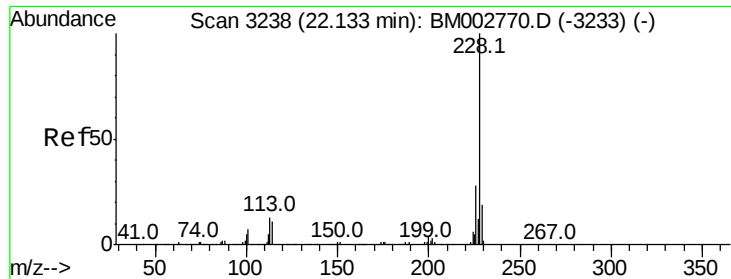
MMDadoda  
9/30/2015 4:39:51 PM



#83  
Benzo(a)anthracene  
Concen: 4.30 ng/ul  
RT: 22.07 min Scan# 3227  
Delta R.T. -0.01 min  
Lab File: BM002773.D  
Acq: 30 Sep 2015 07:47

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 228     | 100  |       | 105362 |       |       |
| 229     | 20.3 | 16.1  | 24.1   |       |       |
| 226     | 26.4 | 20.9  | 31.3   |       |       |





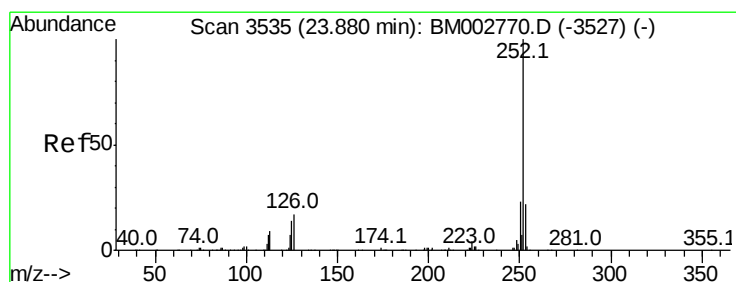
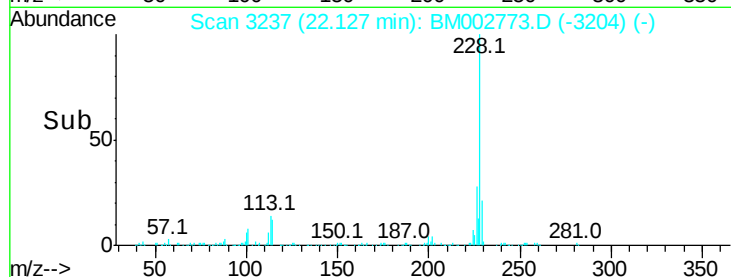
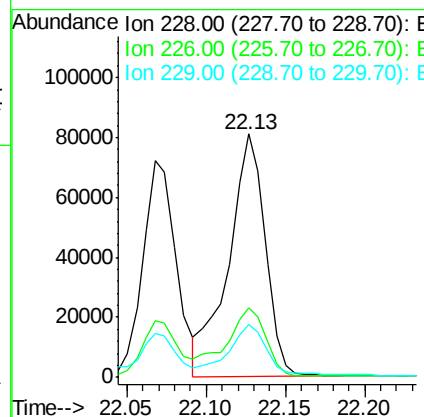
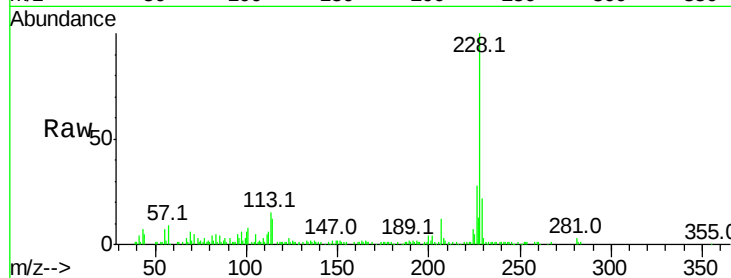
#85  
Chrysene  
Concen: 5.63 ng/ul  
RT: 22.13 min Scan# 3237  
Delta R.T. -0.01 min  
Lab File: BM002773.D  
Acq: 30 Sep 2015 07:47

Instrument :  
BNA\_M  
ClientSampled :  
E5MX0

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 130215 |       |       |
| 226     | 28.5  |        | 22.4  | 33.6  |
| 229     | 21.6  |        | 15.4  | 23.2  |

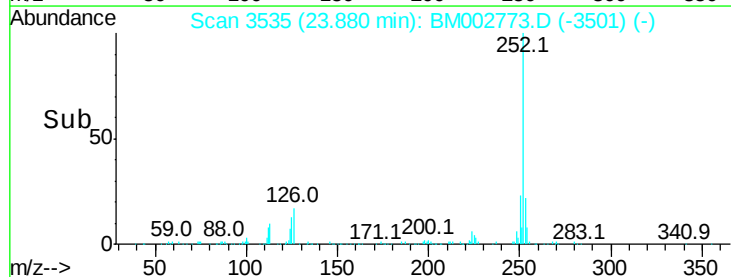
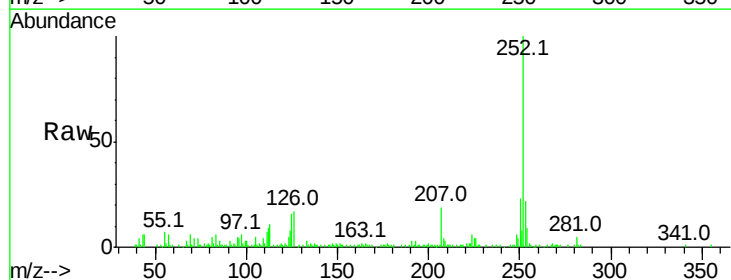
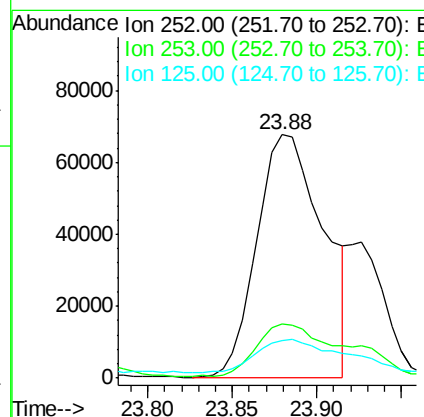
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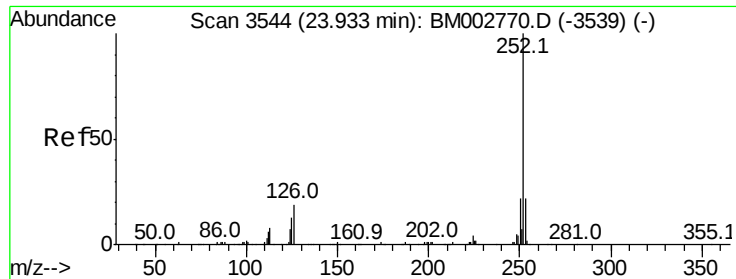
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#88  
Benzo(b)fluoranthene  
Concen: 7.47 ng/ul  
RT: 23.88 min Scan# 3535  
Delta R.T. -0.00 min  
Lab File: BM002773.D  
Acq: 30 Sep 2015 07:47

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 186156 |       |       |
| 253     | 22.4  |        | 17.6  | 26.4  |
| 125     | 15.6  |        | 10.6  | 15.8  |





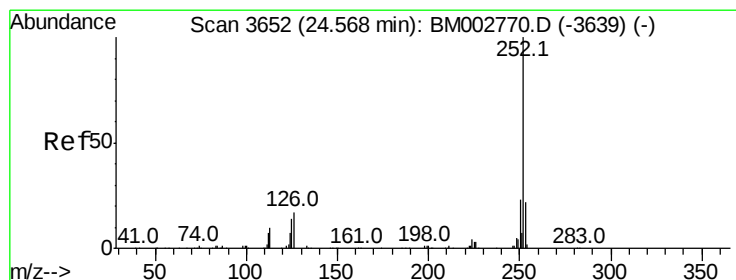
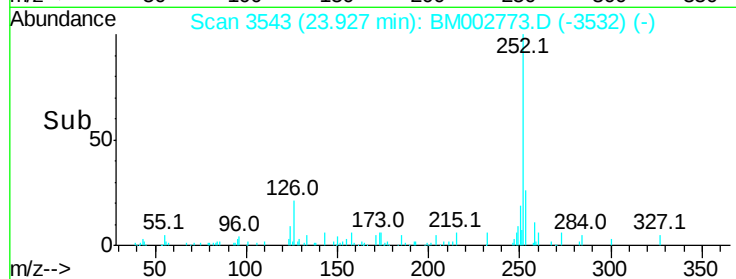
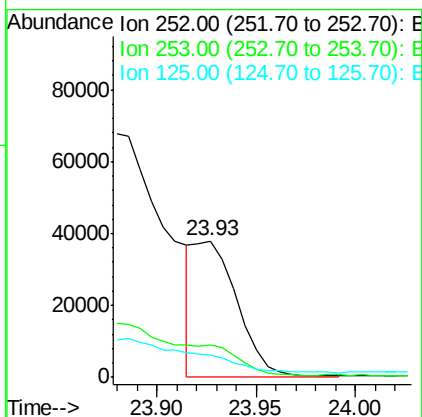
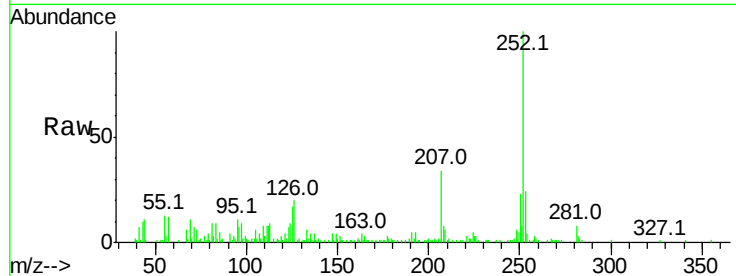
#89  
Benzo(k)fluoranthene  
Concen: 2.43 ng/ul m  
RT: 23.93 min Scan# 3543  
Delta R.T. -0.01 min  
Lab File: BM002773.D  
Acq: 30 Sep 2015 07:47

Instrument :  
BNA\_M  
ClientSampleId :  
E5MX0

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 252     | 100   | 57218 |       |       |
| 253     | 23.5  |       | 17.3  | 25.9  |
| 125     | 16.6  |       | 10.0  | 15.0# |

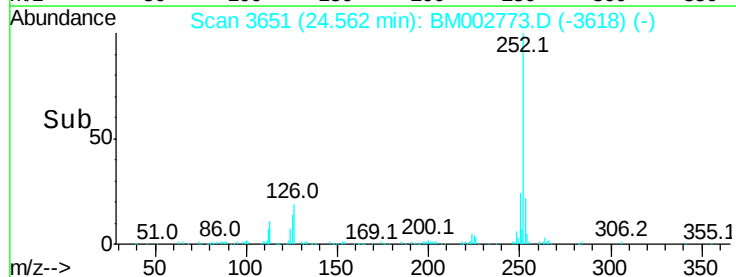
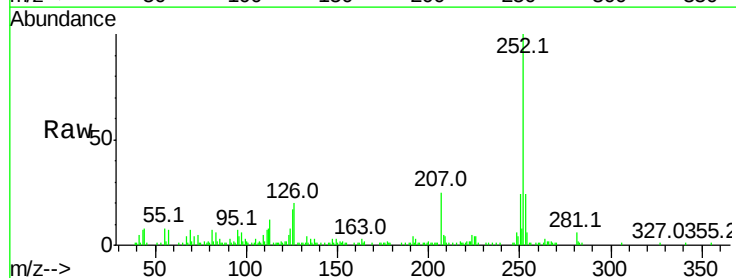
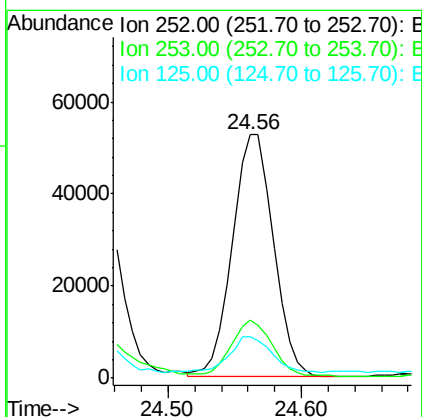
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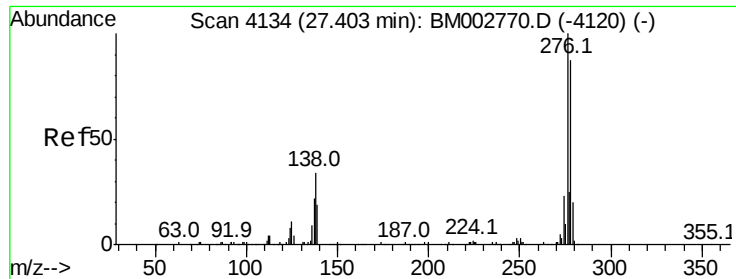
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#91  
Benzo(a)pyrene  
Concen: 4.70 ng/ul  
RT: 24.56 min Scan# 3651  
Delta R.T. -0.01 min  
Lab File: BM002773.D  
Acq: 30 Sep 2015 07:47

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 112417 |       |       |
| 253     | 23.6  |        | 17.4  | 26.0  |
| 125     | 17.2  |        | 11.4  | 17.2# |





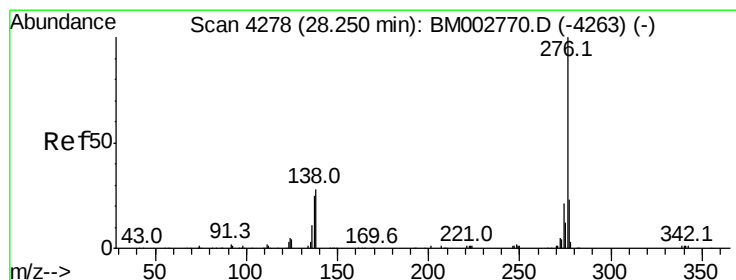
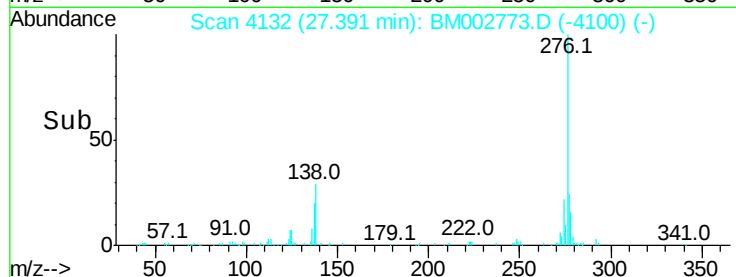
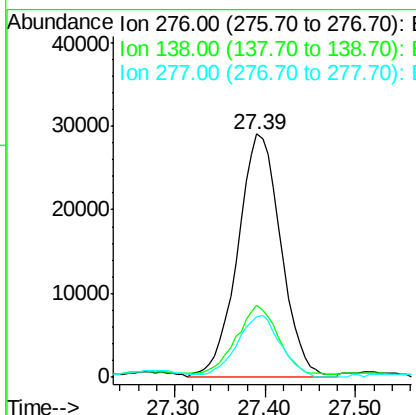
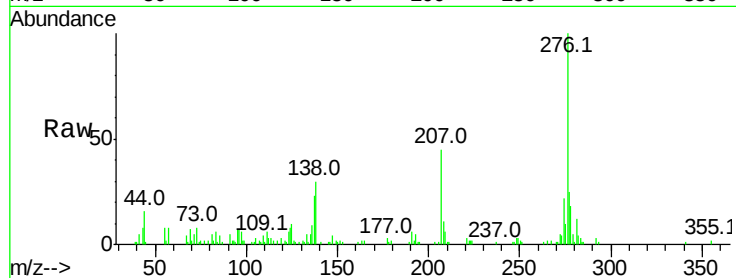
#92  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.46 ng/ul  
 RT: 27.39 min Scan# 4132  
 Delta R.T. -0.01 min  
 Lab File: BM002773.D  
 Acq: 30 Sep 2015 07:47

Instrument :  
 BNA\_M  
 ClientSampleId :  
 E5MX0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 96683 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 29.6  | 27.7  | 41.5  |
| 277       | 24.8  | 20.2  | 30.4  |

Manual Integrations  
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#94  
 Benzo(g,h,i)perylene  
 Concen: 4.12 ng/ul  
 RT: 28.24 min Scan# 4277  
 Delta R.T. -0.01 min  
 Lab File: BM002773.D  
 Acq: 30 Sep 2015 07:47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 96786 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 27.9  | 21.8  | 32.8  |
| 277       | 25.0  | 18.9  | 28.3  |

