

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061017\  
 Data File : BM010524.D  
 Acq On : 11 Jun 2017 14:22  
 Operator : SJ/MA  
 Sample : I3522-03  
 Misc :  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5C84

Manual Integrations  
 APPROVED

mohammad  
 6/12/2017 3:41:44 PM

Quant Time: Jun 12 10:15:38 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\Methods\SOM-EPA-BM052717.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jun 12 09:00:46 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.89  | 152  | 165344   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.69 | 136  | 610441   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.53 | 164  | 412086   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.27 | 188  | 1012104  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.44 | 240  | 1427014  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.78 | 264  | 1466574  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.36  | 96  | 10109   | 2.51  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.07  | 99  | 152436  | 12.17 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.23  | 67  | 92922   | 13.20 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.43  | 132 | 142629  | 14.28 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.61  | 113 | 132799  | 13.14 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.07  | 128 | 68396   | 15.30 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.79  | 143 | 76790   | 14.83 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.32 | 165 | 170075  | 15.98 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.86 | 131 | 162040  | 15.78 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.94 | 166 | 561395  | 16.40 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.23 | 160 | 623906  | 15.62 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.77 | 143 | 48904   | 9.55  | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.52 | 176 | 470967  | 15.65 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.65 | 200 | 81445   | 11.36 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.37 | 188 | 754053  | 15.31 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.66 | 212 | 973462  | 16.50 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.63 | 264 | 1052223 | 15.41 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |          |        | Qvalue |     |
|----------------------------|-------|-----|----------|--------|--------|-----|
| 44) Dimethylphthalate      | 13.99 | 163 | 235619   | 6.998  | ng/ul  | 98  |
| 47) Acenaphthylene         | 14.26 | 152 | 74220    | 1.902  | ng/ul  | 96  |
| 69) Phenanthrene           | 17.32 | 178 | 118228   | 2.188  | ng/ul  | 98  |
| 71) Anthracene             | 17.41 | 178 | 138469   | 2.455  | ng/ul  | 99  |
| 72) Carbazole              | 17.70 | 167 | 49658    | 1.040  | ng/ul  | 98  |
| 74) Fluoranthene           | 19.33 | 202 | 2254717  | 33.934 | ng/ul# | 96  |
| 77) Pyrene                 | 19.69 | 202 | 2354987  | 32.025 | ng/ul# | 94  |
| 80) Benzo(a)anthracene     | 21.43 | 228 | 1377228  | 17.115 | ng/ul  | 96  |
| 82) Chrysene               | 21.48 | 228 | 1659053  | 22.807 | ng/ul  | 95  |
| 85) Benzo(b)fluoranthene   | 23.07 | 252 | 2655310  | 31.115 | ng/ul  | 100 |
| 86) Benzo(k)fluoranthene   | 23.11 | 252 | 870582m  | 10.679 | ng/ul  |     |
| 88) Benzo(a)pyrene         | 23.67 | 252 | 1086818m | 12.848 | ng/ul  |     |
| 89) Indeno(1,2,3-cd)pyrene | 26.16 | 276 | 717630   | 6.715  | ng/ul  | 96  |
| 90) Dibenzo(a,h)anthracene | 26.16 | 278 | 192838   | 2.095  | ng/ul  | 96  |
| 91) Benzo(g,h,i)perylene   | 26.89 | 276 | 457827   | 5.200  | ng/ul# | 96  |

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

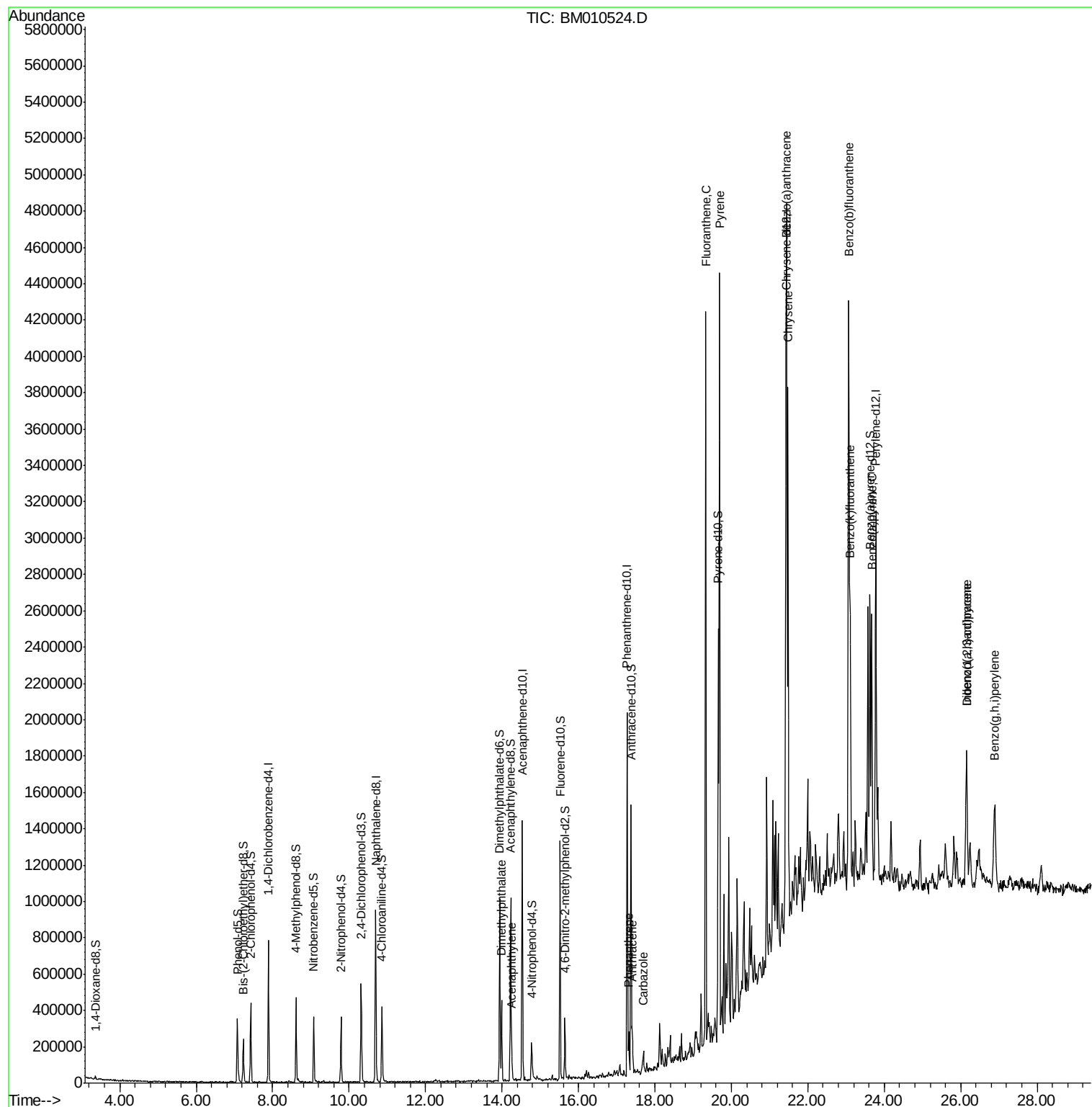
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061017\  
Data File : BM010524.D  
Acq On : 11 Jun 2017 14:22  
Operator : SJ/MA  
Sample : I3522-03  
Misc :  
ALS Vial : 49 Sample Multiplier: 1

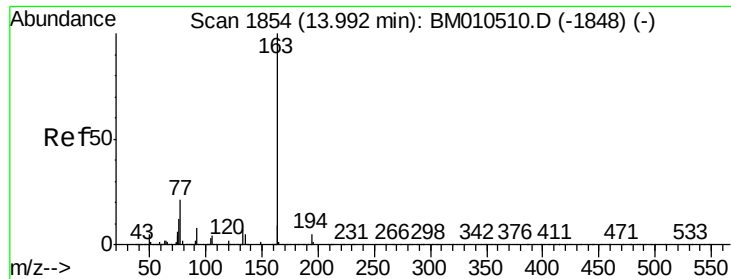
Instrument :  
BNA\_M  
ClientSampled :  
F5C84

Manual Integrations  
APPROVED

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6/12/2017 3:41:44 PM

Quant Time: Jun 12 10:15:38 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\Methods\SOM-EPA-BM052717.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Jun 12 09:00:46 2017  
Response via : Initial Calibration





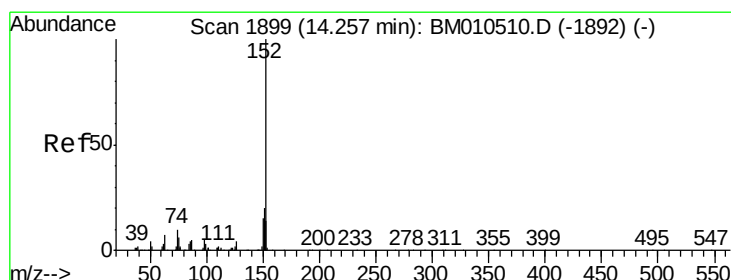
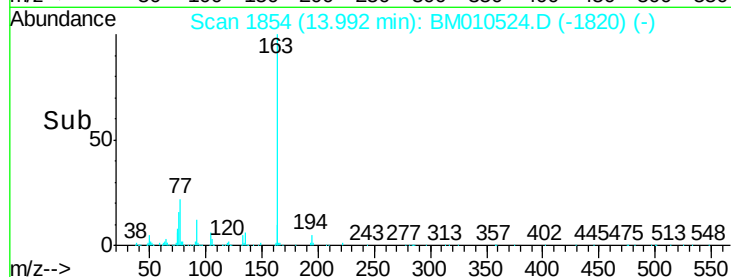
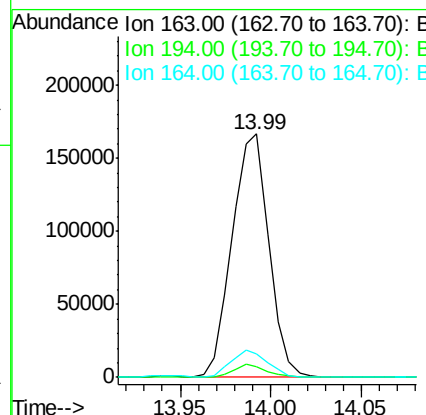
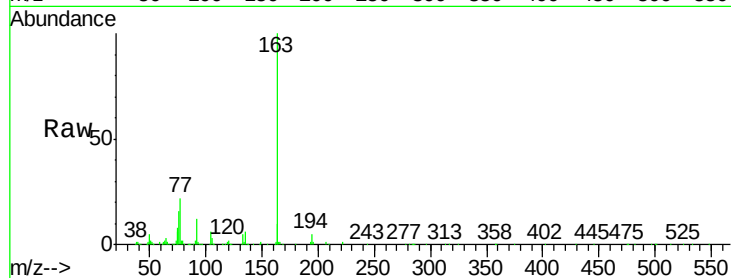
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Dimethylphthalate  
Concen: 6.998 ng/ul  
RT: 13.99 min Scan# 1854  
Delta R.T. 0.00 min  
Lab File: BM010524.D  
Acq: 11 Jun 2017 14:22

Instrument :  
BNA\_M  
ClientSampleId :  
F5C84

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 163     | 100   |            |       |
| 194     | 4.5   | 3.5        | 5.3   |
| 164     | 9.6   | 8.2        | 12.4  |

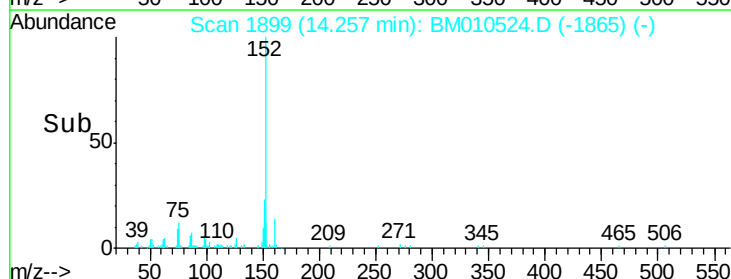
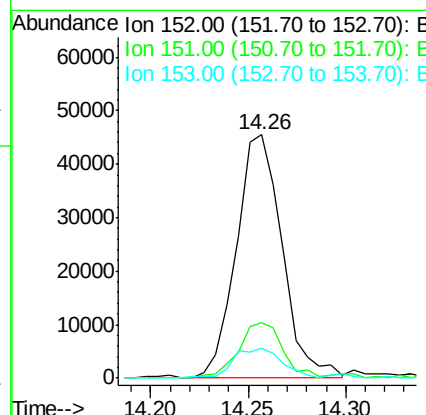
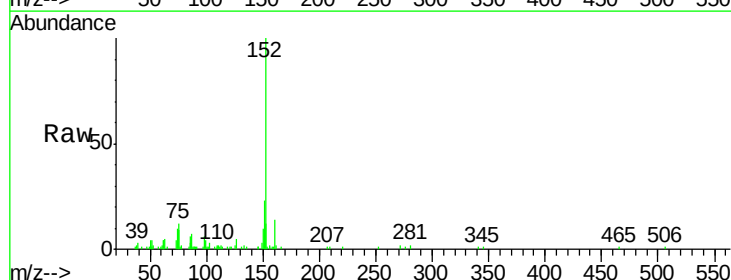
Manual Integrations  
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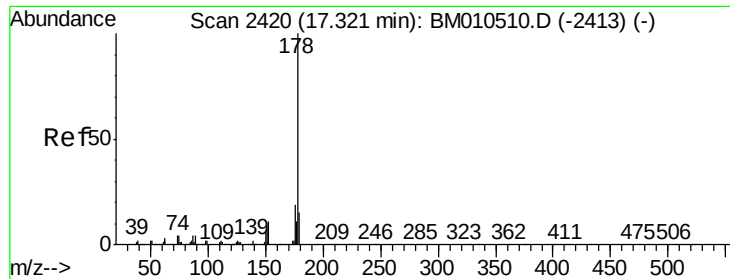
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#47  
Acenaphthylene  
Concen: 1.902 ng/ul  
RT: 14.26 min Scan# 1899  
Delta R.T. 0.00 min  
Lab File: BM010524.D  
Acq: 11 Jun 2017 14:22

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 152     | 100   |            |       |
| 151     | 22.9  | 16.3       | 24.5  |
| 153     | 12.4  | 10.2       | 15.4  |





#69

Phenanthrene

Concen: 2.188 ng/ul

RT: 17.32 min Scan# 2419

Delta R.T. -0.01 min

Lab File: BM010524.D

Acq: 11 Jun 2017 14:22

Instrument :

BNA\_M

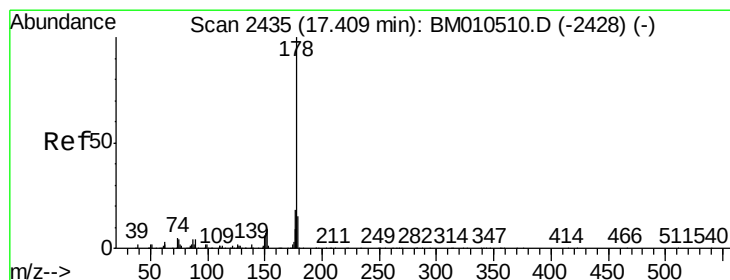
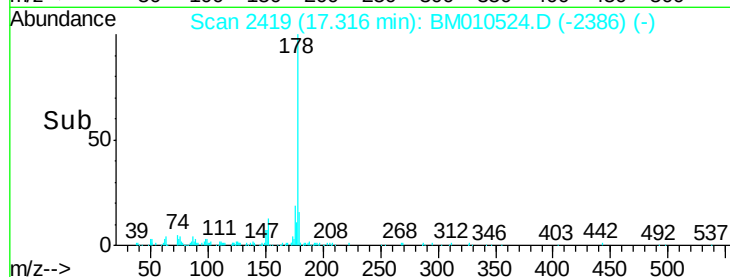
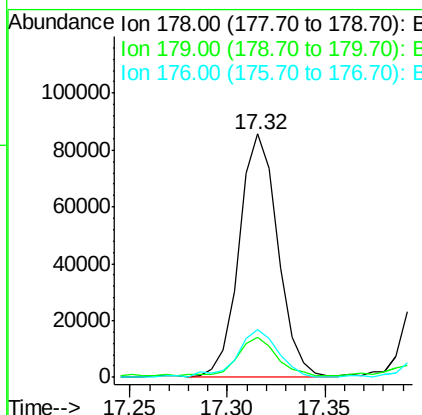
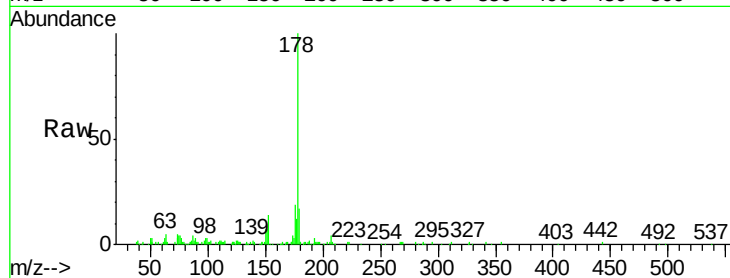
ClientSampleId :

F5C84

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 118228 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.6  | 12.6  | 19.0   |
| 176       | 19.4  | 14.9  | 22.3   |

Manual Integrations  
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#71

Anthracene

Concen: 2.455 ng/ul

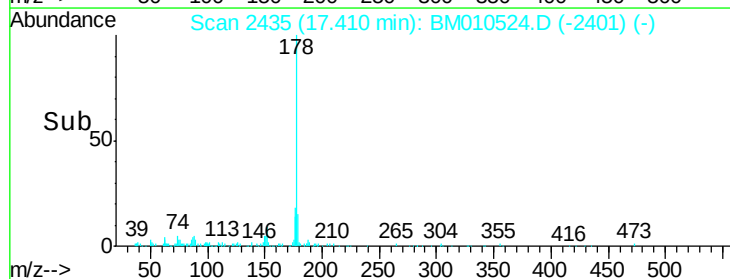
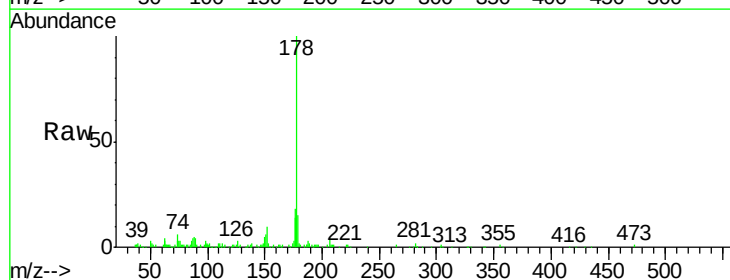
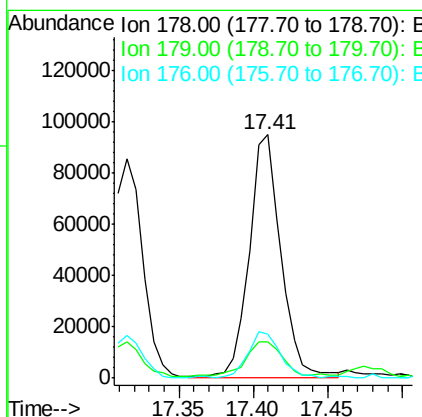
RT: 17.41 min Scan# 2435

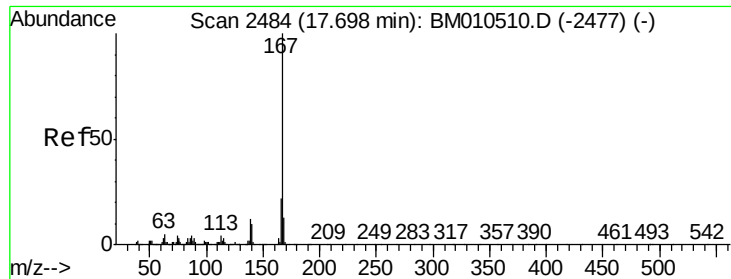
Delta R.T. 0.00 min

Lab File: BM010524.D

Acq: 11 Jun 2017 14:22

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 138469 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.1  | 11.7  | 17.5   |
| 176       | 18.1  | 14.6  | 21.8   |





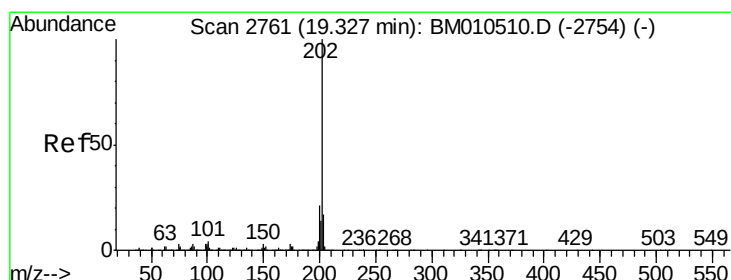
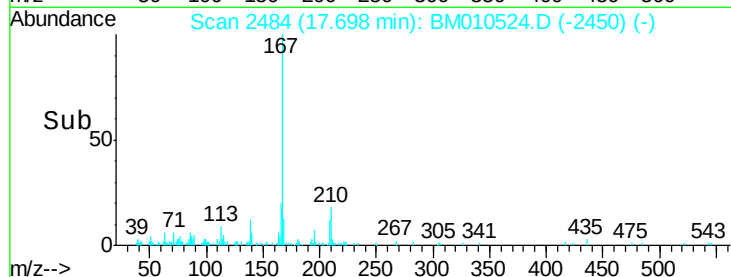
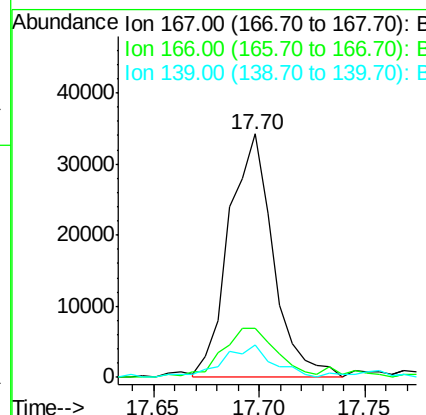
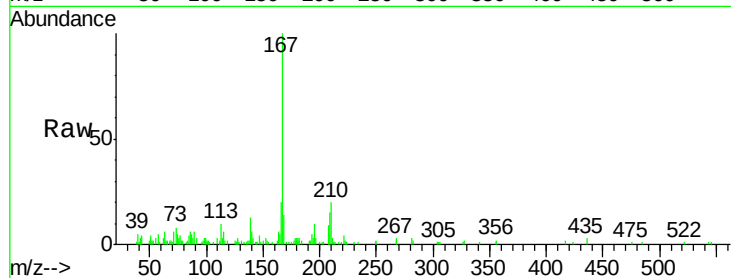
#72  
 Carbazole  
 Concen: 1.040 ng/ul  
 RT: 17.70 min Scan# 2484  
 Delta R.T. 0.00 min  
 Lab File: BM010524.D  
 Acq: 11 Jun 2017 14:22

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5C84

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 20.2  | 17.1  | 25.7  |
| 139     | 13.4  | 10.0  | 15.0  |

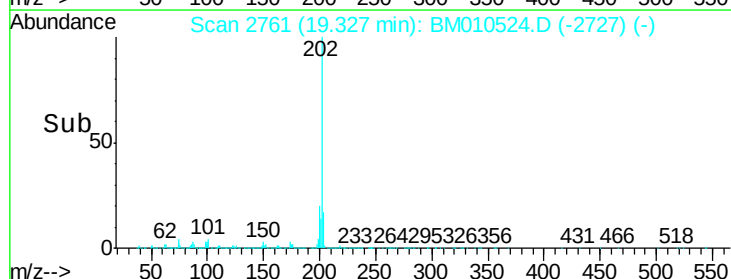
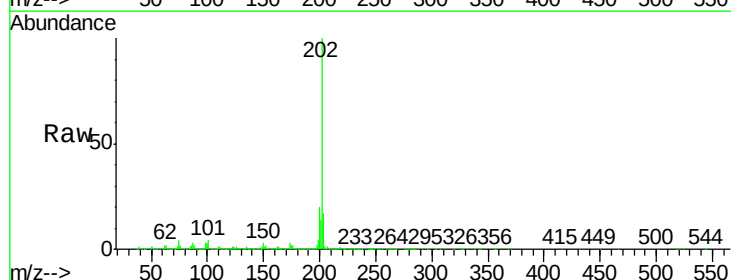
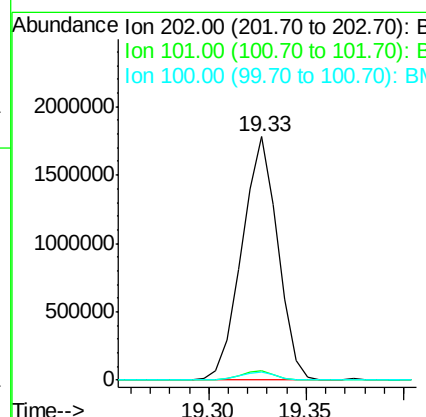
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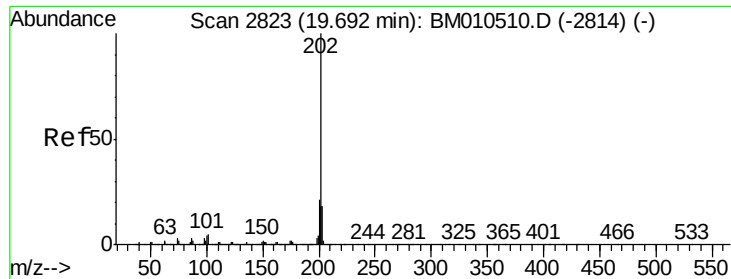
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#74  
 Fluoranthene  
 Concen: 33.934 ng/ul  
 RT: 19.33 min Scan# 2761  
 Delta R.T. 0.00 min  
 Lab File: BM010524.D  
 Acq: 11 Jun 2017 14:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 4.0   | 4.6   | 7.0#  |
| 100     | 3.4   | 3.4   | 5.2#  |





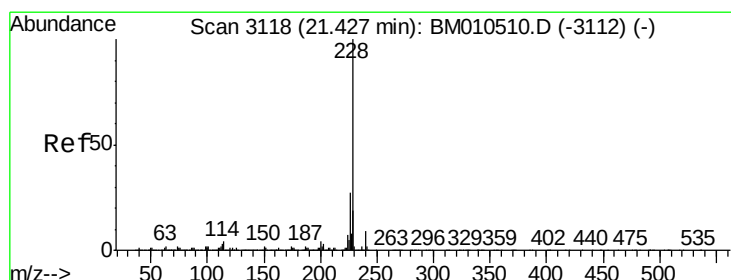
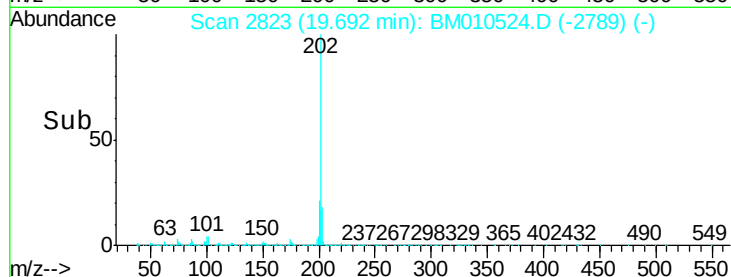
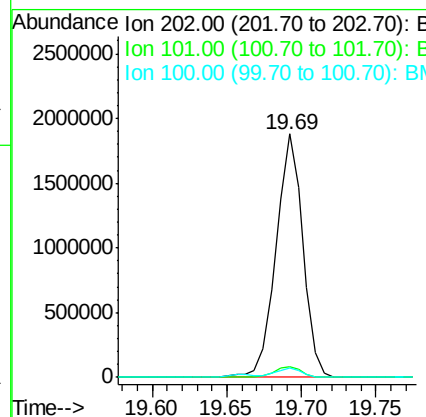
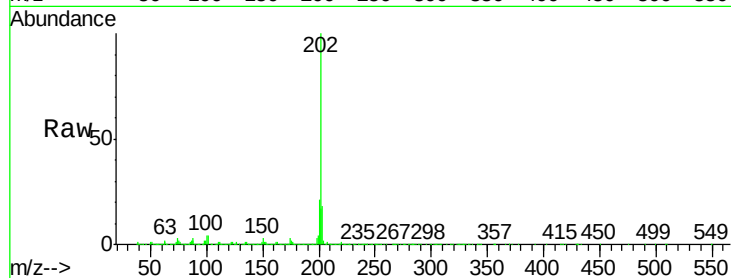
#77  
 Pyrene  
 Concen: 32.025 ng/ul  
 RT: 19.69 min Scan# 2823  
 Delta R.T. 0.00 min  
 Lab File: BM010524.D  
 Acq: 11 Jun 2017 14:22

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5C84

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 4.4   | 5.1   | 7.7#  |
| 100     | 4.0   | 4.9   | 7.3#  |

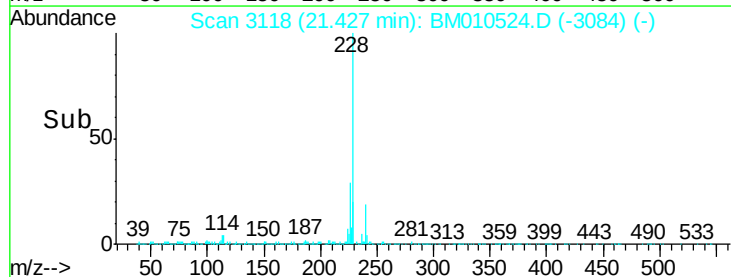
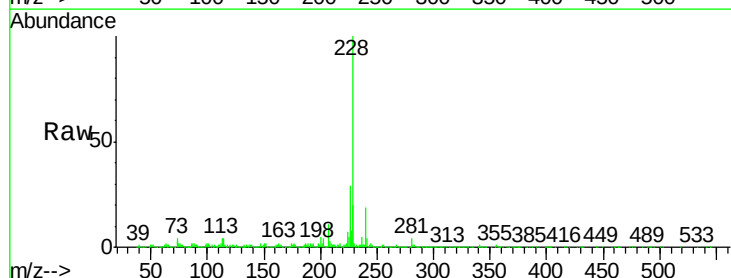
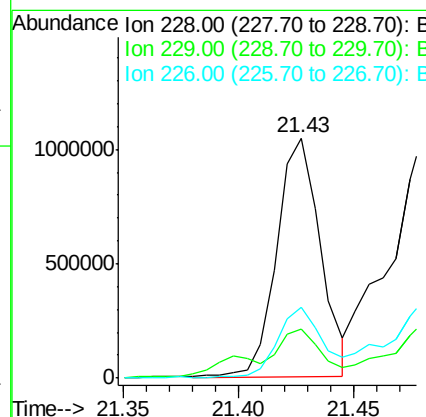
Manual Integrations  
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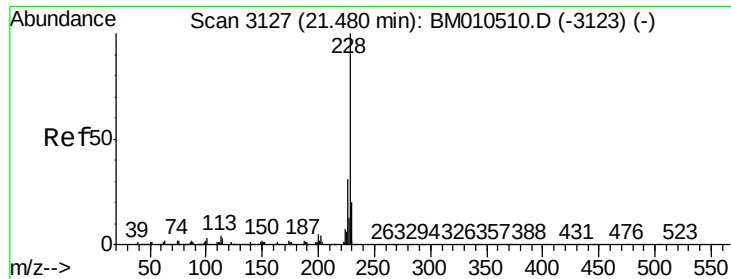
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#80  
 Benzo(a)anthracene  
 Concen: 17.115 ng/ul  
 RT: 21.43 min Scan# 3118  
 Delta R.T. 0.00 min  
 Lab File: BM010524.D  
 Acq: 11 Jun 2017 14:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.2  | 15.4  | 23.0  |
| 226     | 29.4  | 21.4  | 32.0  |





#82

Chrysene

Concen: 22.807 ng/ul

RT: 21.48 min Scan# 3127

Delta R.T. 0.00 min

Lab File: BM010524.D

Acq: 11 Jun 2017 14:22

Instrument :

BNA\_M

ClientSampleId :

F5C84

Tgt Ion:228 Resp: 1659053

Ion Ratio Lower Upper

228 100

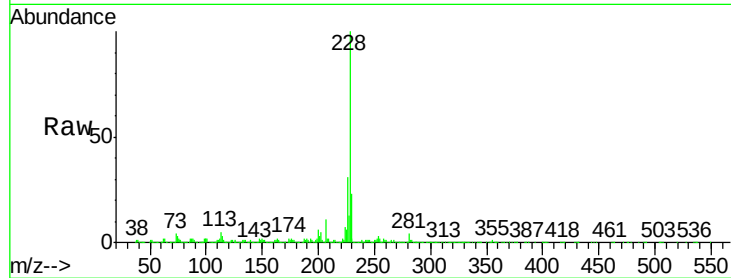
226 31.3 23.4 35.2

229 22.6 15.5 23.3

Manual Integrations  
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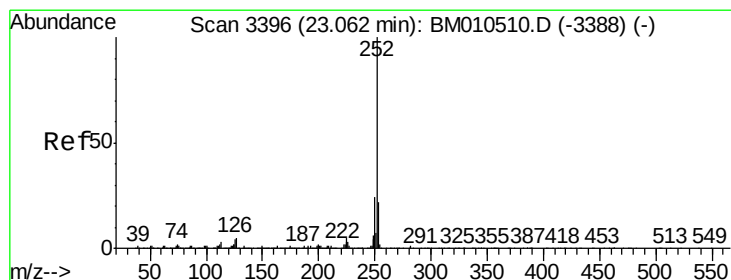
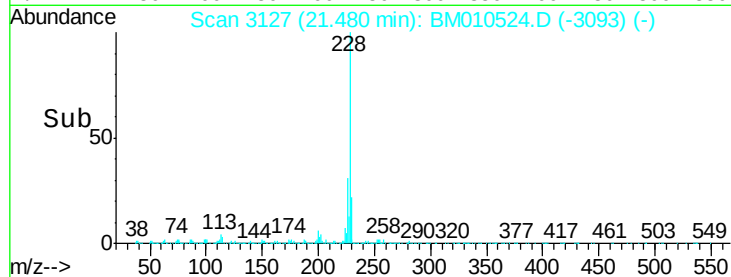
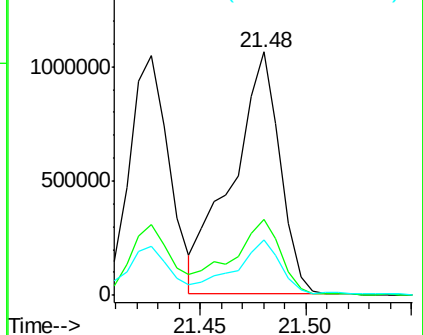
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Benzo(b)fluoranthene

Concen: 31.115 ng/ul

RT: 23.07 min Scan# 3397

Delta R.T. 0.01 min

Lab File: BM010524.D

Acq: 11 Jun 2017 14:22

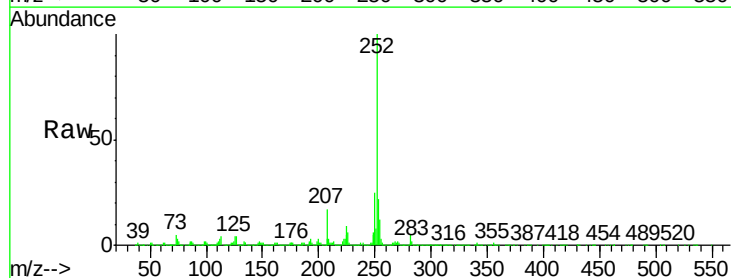
Tgt Ion:252 Resp: 2655310

Ion Ratio Lower Upper

252 100

253 22.4 17.9 26.9

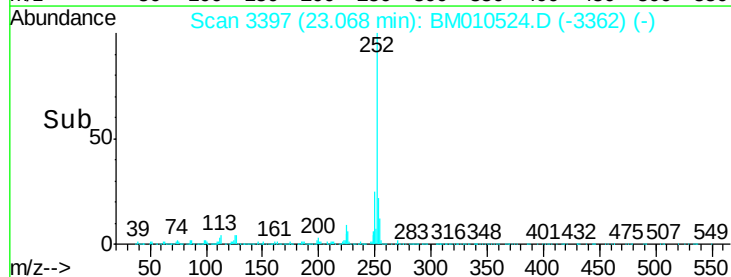
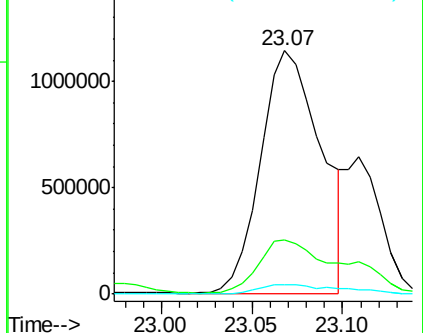
125 3.8 3.6 5.4

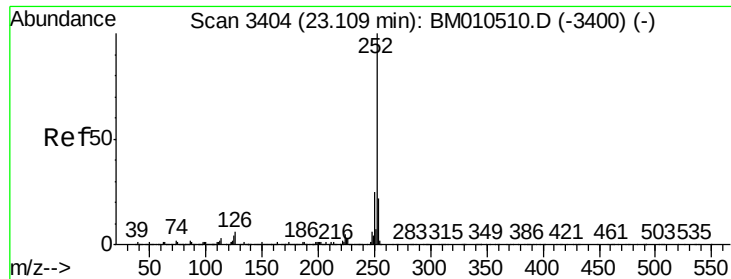


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





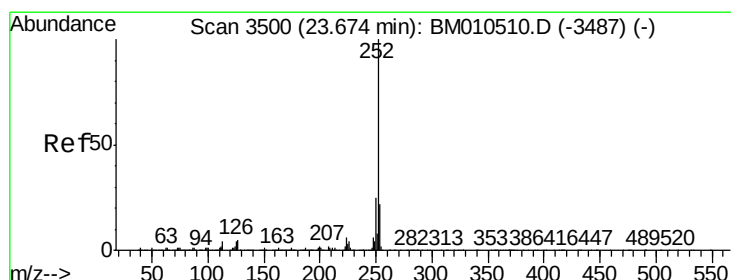
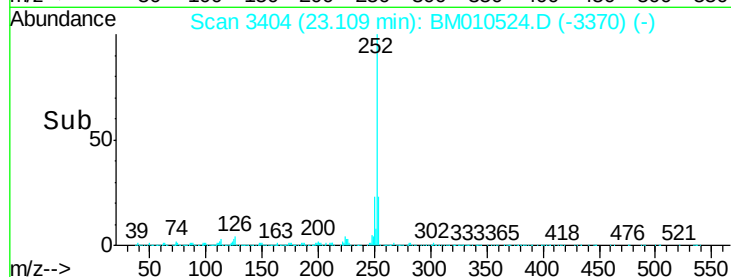
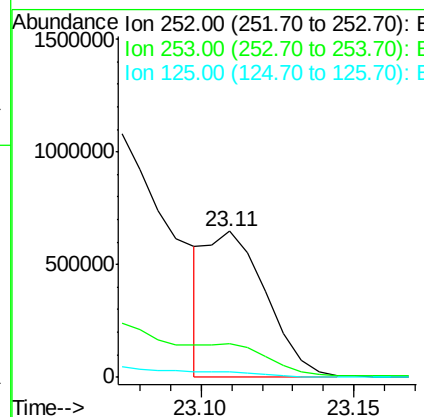
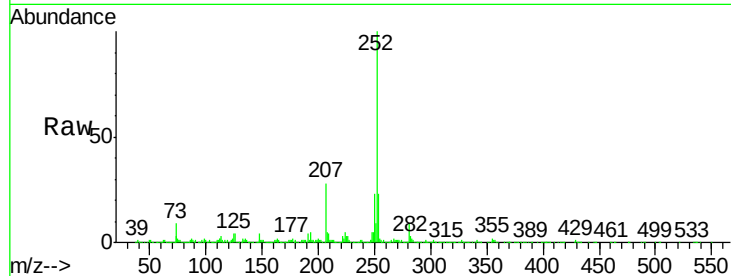
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Benzo(k)fluoranthene  
Concen: 10.679 ng/ul m  
RT: 23.11 min Scan# 3404  
Delta R.T. 0.00 min  
Lab File: BM010524.D  
Acq: 11 Jun 2017 14:22

Instrument :  
BNA\_M  
ClientSampled :  
F5C84

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 870582 |       |       |
| 253     | 23.4  | 17.1   | 25.7  |       |
| 125     | 3.5   | 3.4    | 5.2   |       |

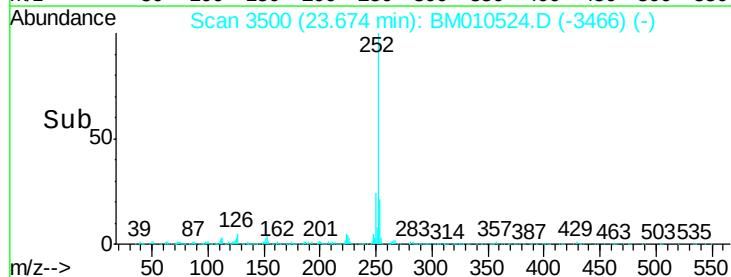
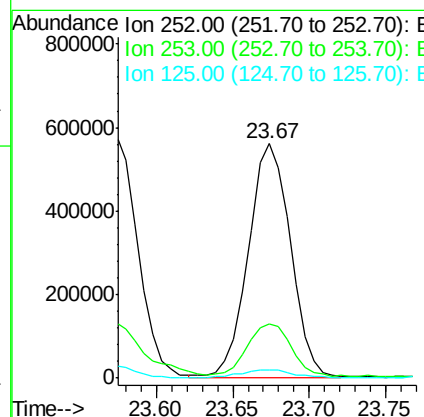
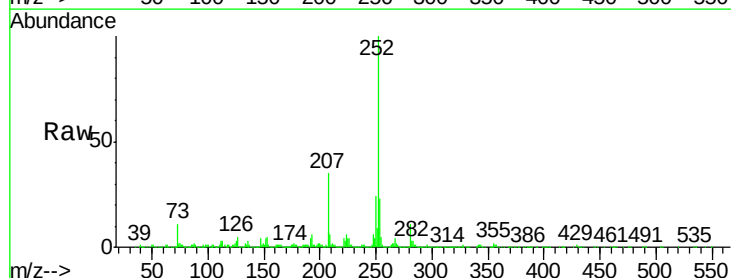
Manual Integrations  
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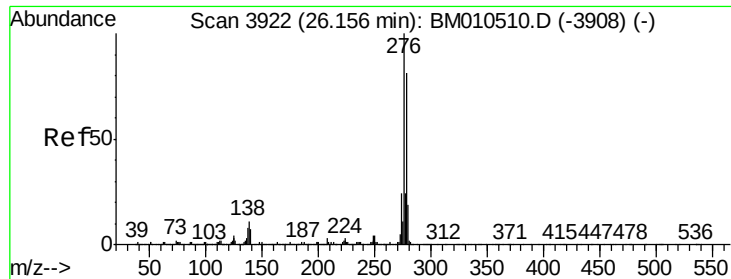


#88  
Benzo(a)pyrene  
Concen: 12.848 ng/ul m  
RT: 23.67 min Scan# 3500  
Delta R.T. 0.00 min  
Lab File: BM010524.D  
Acq: 11 Jun 2017 14:22

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 252     | 100   | 1086818 |       |       |
| 253     | 23.0  | 18.2    | 27.2  |       |
| 125     | 3.5   | 4.0     | 6.0   |       |







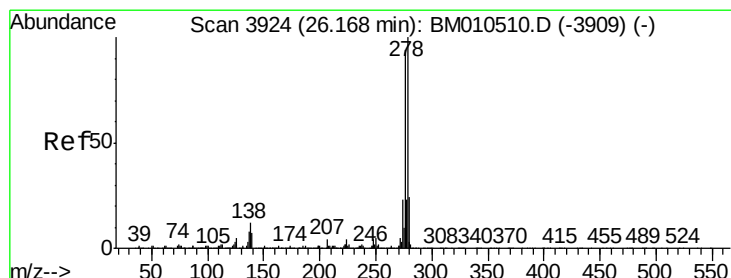
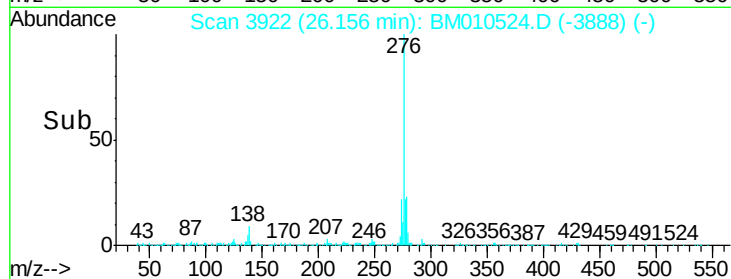
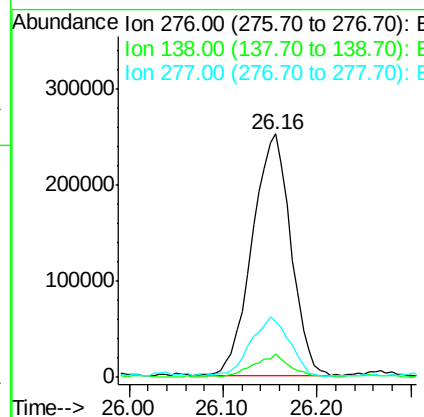
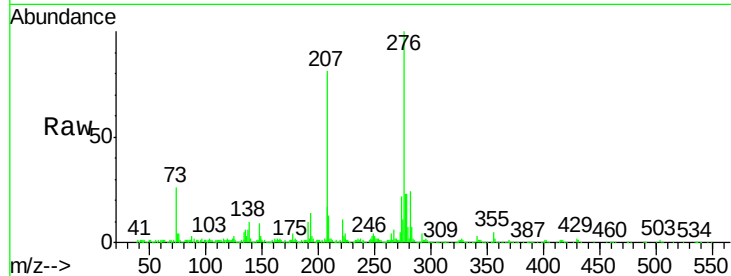
#89  
Indeno(1,2,3-cd)pyrene  
Concen: 6.715 ng/ul  
RT: 26.16 min Scan# 3922  
Delta R.T. 0.00 min  
Lab File: BM010524.D  
Acq: 11 Jun 2017 14:22

Instrument :  
BNA\_M  
ClientSampleId :  
F5C84

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 717630 |       |       |
| 138     | 9.7   |        | 9.3   | 13.9  |
| 277     | 22.9  |        | 19.9  | 29.9  |

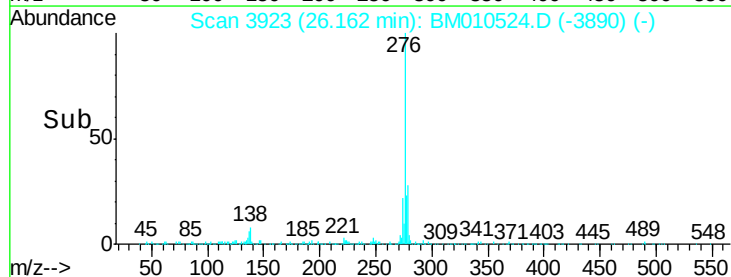
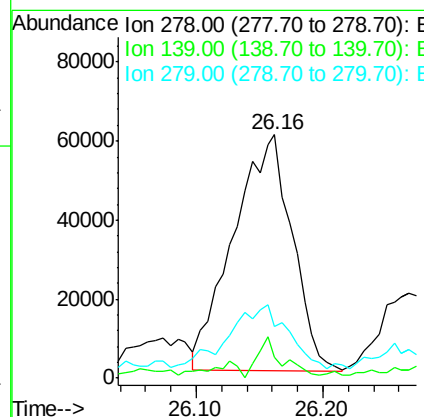
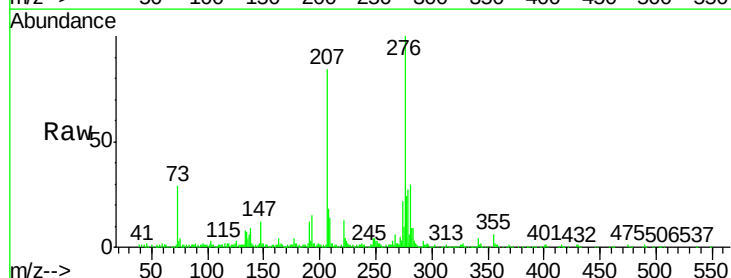
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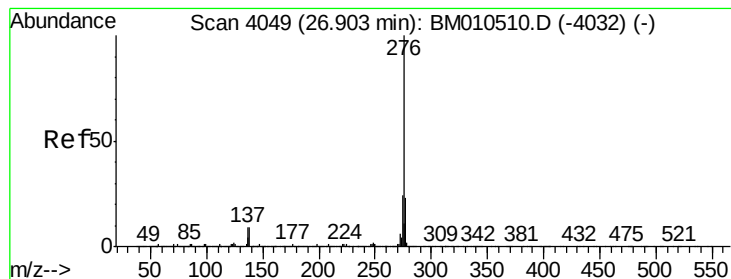
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#90  
Dibenzo(a,h)anthracene  
Concen: 2.095 ng/ul  
RT: 26.16 min Scan# 3923  
Delta R.T. -0.01 min  
Lab File: BM010524.D  
Acq: 11 Jun 2017 14:22

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 278     | 100   | 192838 |       |       |
| 139     | 8.6   |        | 5.8   | 8.8   |
| 279     | 21.2  |        | 18.6  | 27.8  |





#91

Benzo(g,h,i)perylene

Concen: 5.200 ng/ul

RT: 26.89 min Scan# 4047

Delta R.T. -0.01 min

Lab File: BM010524.D

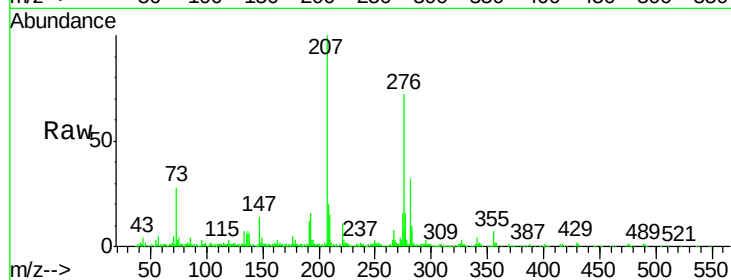
Acq: 11 Jun 2017 14:22

Instrument :

BNA\_M

ClientSampleId :

F5C84



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 457827 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 8.0   | 8.5   | 12.7#  |
| 277       | 21.8  | 18.6  | 28.0   |

Manual Integrations  
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