

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061017\  
 Data File : BM010518.D  
 Acq On : 11 Jun 2017 10:46  
 Operator : SJ/MA  
 Sample : I3522-12  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5C33

Manual Integrations  
 APPROVED

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 6/12/2017 3:41:27 PM

Quant Time: Jun 12 09:53:29 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  | 142318   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.69 | 136  | 531745   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.53 | 164  | 385371   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.28 | 188  | 1000016  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.44 | 240  | 1469407  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.78 | 264  | 1450931  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.36  | 96  | 11857   | 3.42  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.08  | 99  | 177875  | 16.49 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.23  | 67  | 107574  | 17.75 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.43  | 132 | 162834  | 18.94 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.61  | 113 | 155499  | 17.87 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.08  | 128 | 81175   | 20.84 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.79  | 143 | 99147   | 21.97 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.32 | 165 | 199173  | 21.49 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.86 | 131 | 197906  | 22.13 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.95 | 166 | 713931  | 22.30 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.23 | 160 | 763713  | 20.45 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.77 | 143 | 78271   | 16.34 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.52 | 176 | 613021  | 21.78 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.65 | 200 | 119802  | 16.91 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.37 | 188 | 1050091 | 21.58 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.66 | 212 | 1392074 | 22.91 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.63 | 264 | 1440057 | 21.32 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |         | Qvalue    |
|----------------------------|-------|-----|---------|---------|-----------|
| 6) Phenol                  | 7.10  | 94  | 27402   | 2.478   | ng/ul 99  |
| 16) 4-Methylphenol         | 8.68  | 108 | 16957   | 1.916   | ng/ul 90  |
| 24) 2,4-Dimethylphenol     | 9.87  | 107 | 20602   | 1.852   | ng/ul# 82 |
| 28) Naphthalene            | 10.75 | 128 | 382779  | 14.352  | ng/ul 97  |
| 34) 2-Methylnaphthalene    | 12.35 | 142 | 245263  | 12.129  | ng/ul 100 |
| 40) 1,1'-Biphenyl          | 13.36 | 154 | 222921  | 7.131   | ng/ul 99  |
| 44) Dimethylphthalate      | 13.99 | 163 | 651827  | 20.700  | ng/ul 98  |
| 47) Acenaphthylene         | 14.25 | 152 | 38539   | 1.056   | ng/ul# 89 |
| 49) Acenaphthene           | 14.59 | 153 | 983302  | 38.411  | ng/ul 99  |
| 53) Dibenzofuran           | 14.93 | 168 | 1297042 | 34.265  | ng/ul 97  |
| 58) Fluorene               | 15.57 | 166 | 1244512 | 40.080  | ng/ul 98  |
| 69) Phenanthrene           | 17.33 | 178 | 8871756 | 166.181 | ng/ul 98  |
| 71) Anthracene             | 17.41 | 178 | 832737  | 14.942  | ng/ul 96  |
| 72) Carbazole              | 17.69 | 167 | 195829  | 4.151   | ng/ul# 95 |
| 74) Fluoranthene           | 19.33 | 202 | 6631330 | 101.011 | ng/ul# 96 |
| 77) Pyrene                 | 19.70 | 202 | 4256448 | 56.213  | ng/ul# 94 |
| 80) Benzo(a)anthracene     | 21.43 | 228 | 1757691 | 21.212  | ng/ul 98  |
| 82) Chrysene               | 21.48 | 228 | 1038461 | 13.864  | ng/ul 99  |
| 85) Benzo(b)fluoranthene   | 23.07 | 252 | 1217473 | 14.420  | ng/ul 99  |
| 86) Benzo(k)fluoranthene   | 23.11 | 252 | 506327m | 6.278   | ng/ul     |
| 88) Benzo(a)pyrene         | 23.67 | 252 | 830448m | 9.923   | ng/ul     |
| 89) Indeno(1,2,3-cd)pyrene | 26.15 | 276 | 338984  | 3.206   | ng/ul 97  |
| 91) Benzo(g,h,i)perylene   | 26.90 | 276 | 256408  | 2.944   | ng/ul# 95 |

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Operator : SJ/MA  
Sample : I3522-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F5C33

Manual Integrations  
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Quant Time: Jun 12 09:53:29 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) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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

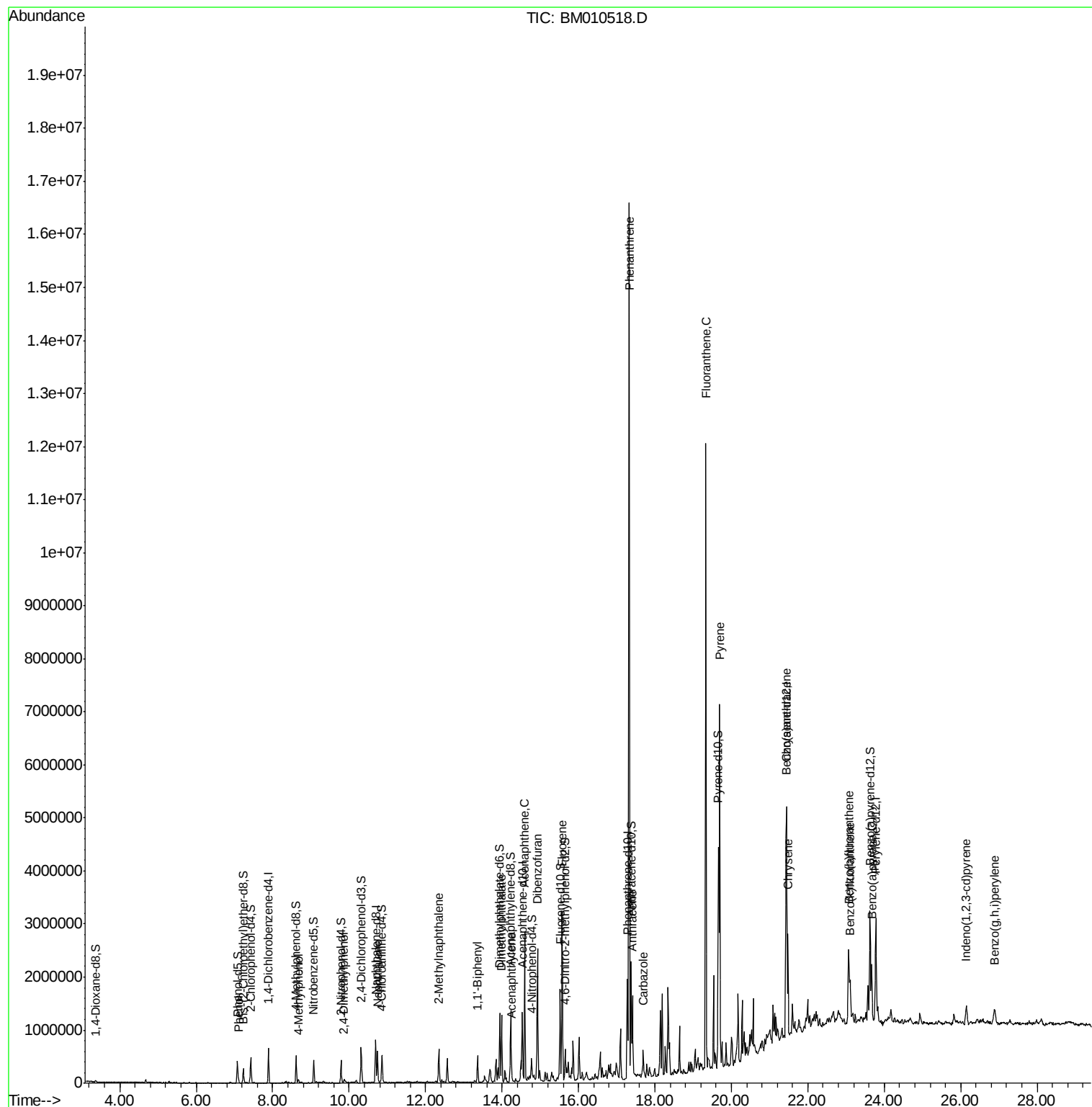
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061017\  
Data File : BM010518.D  
Acq On : 11 Jun 2017 10:46  
Operator : SJ/MA  
Sample : I3522-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

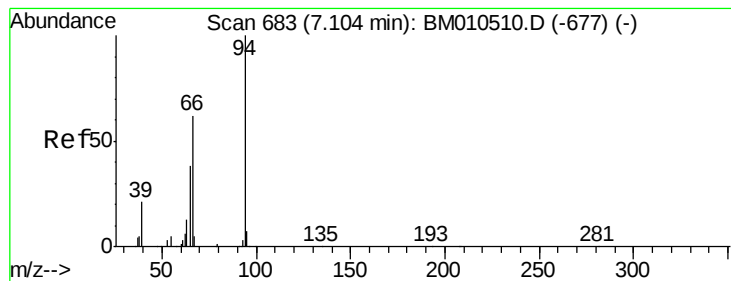
Instrument :  
BNA\_M  
ClientSampleId :  
F5C33

Manual Integrations  
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Quant Time: Jun 12 09:53:29 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





#6

Phenol

Concen: 2.478 ng/ul

RT: 7.10 min Scan# 683

Delta R.T. 0.00 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

Instrument :

BNA\_M

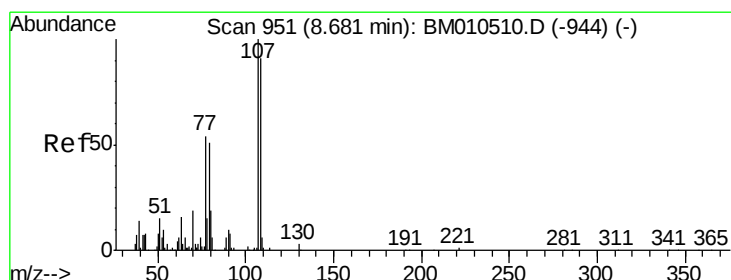
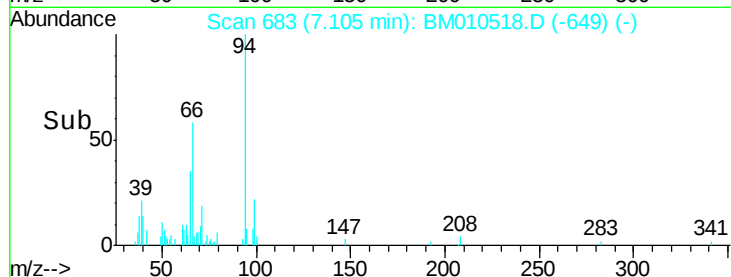
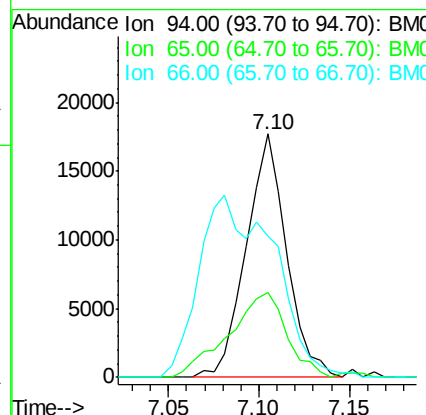
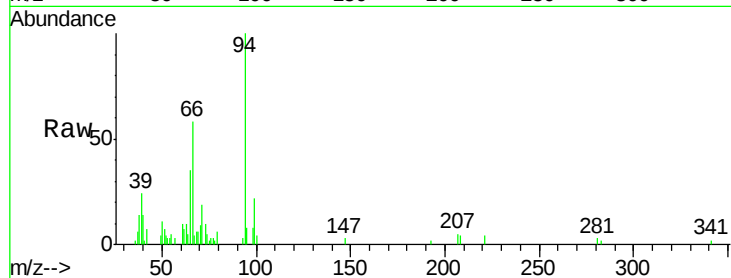
ClientSampleId :

F5C33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 27402 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 34.8  | 28.2  | 42.4  |
| 66       | 57.8  | 47.2  | 70.8  |

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#16

4-Methylphenol

Concen: 1.916 ng/ul

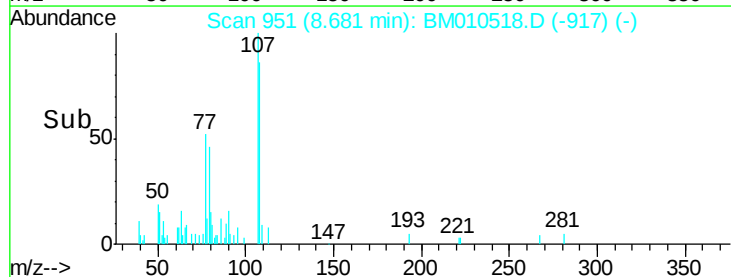
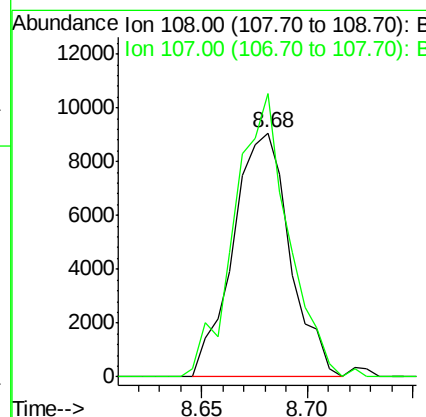
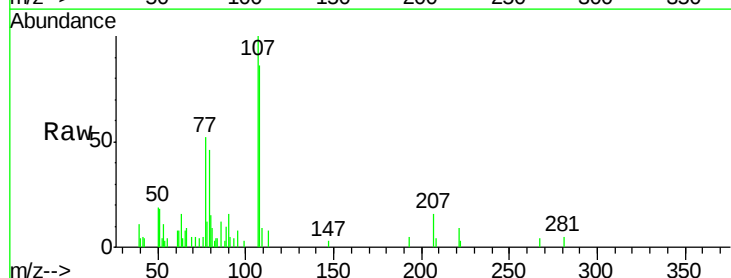
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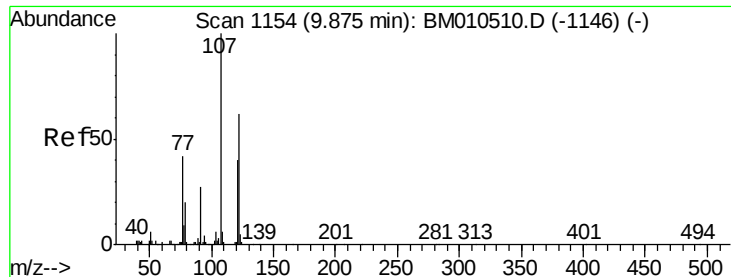
Delta R.T. 0.00 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 108   | Resp: | 16957 |
| Ion      | Ratio | Lower | Upper |
| 108      | 100   |       |       |
| 107      | 116.1 | 84.9  | 127.3 |





#24

2,4-Dimethylphenol

Concen: 1.852 ng/ul

RT: 9.87 min Scan# 1153

Delta R.T. -0.01 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

Instrument :

BNA\_M

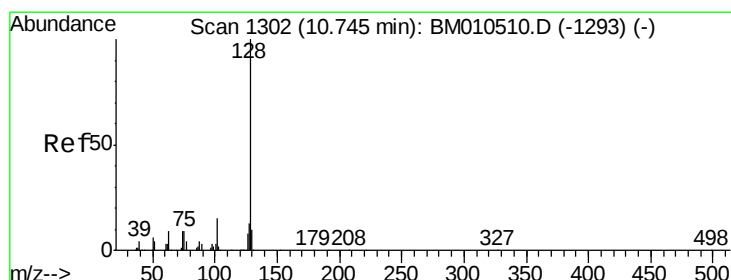
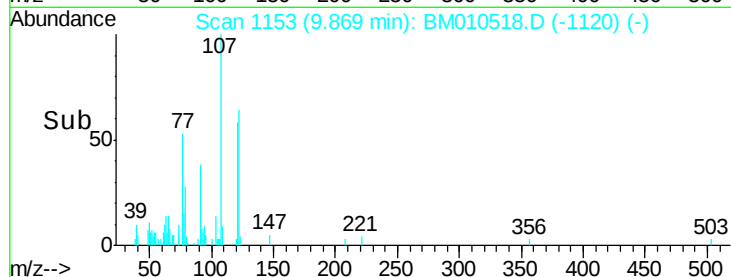
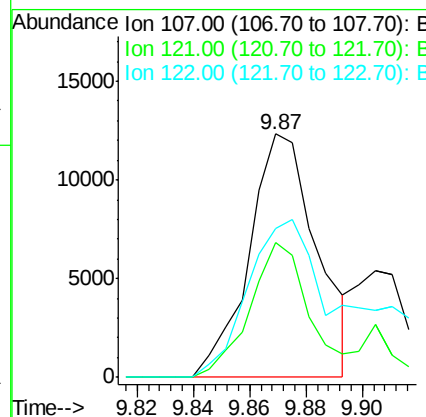
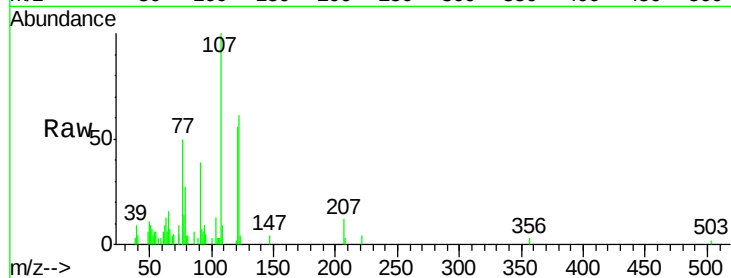
ClientSampleId :

F5C33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 121     | 55.6  | 31.9  | 47.9# |
| 122     | 60.9  | 57.8  | 86.6  |

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#28

Naphthalene

Concen: 14.352 ng/ul

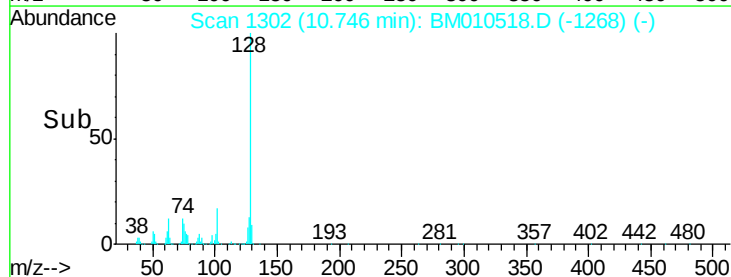
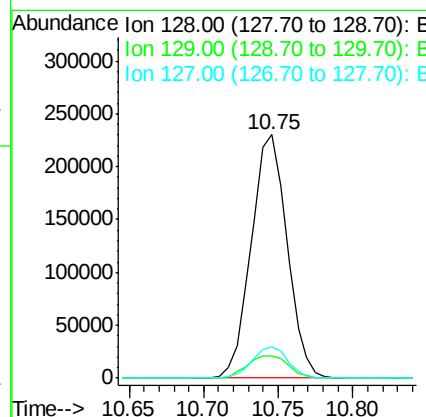
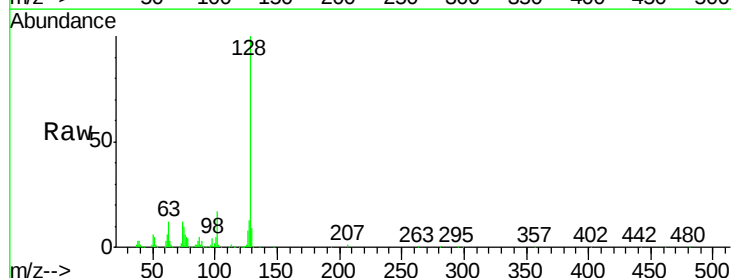
RT: 10.75 min Scan# 1302

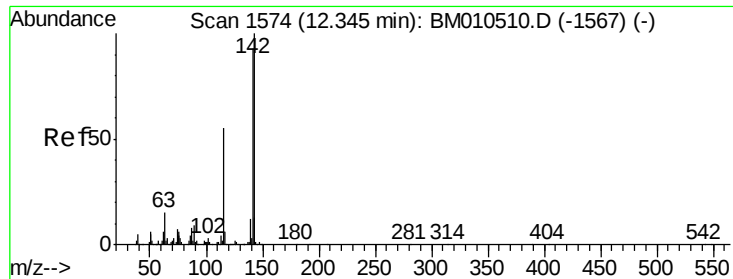
Delta R.T. 0.00 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 9.3   | 8.8   | 13.2  |
| 127     | 12.6  | 10.6  | 16.0  |





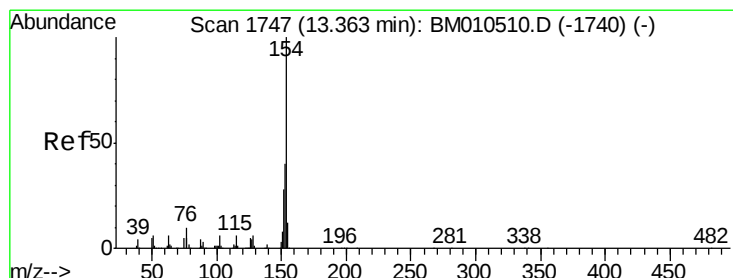
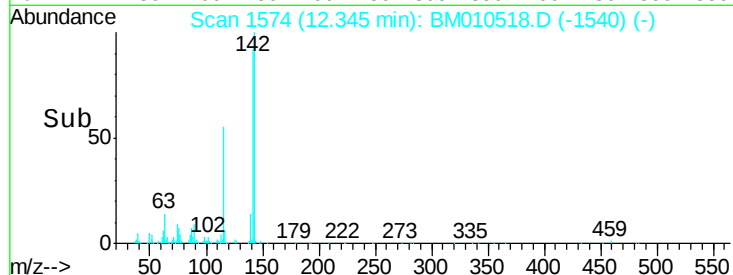
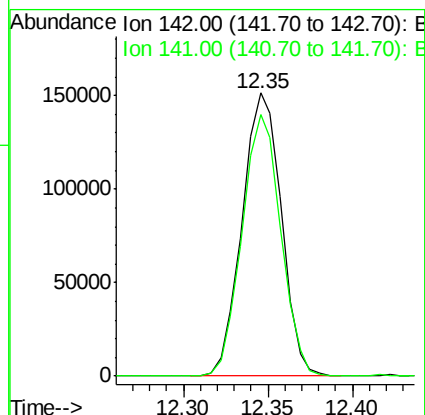
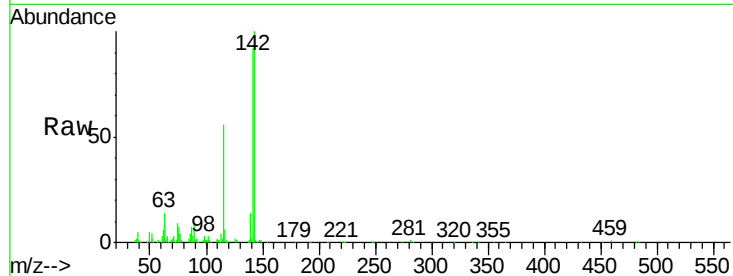
#34  
2-Methylnaphthalene  
Concen: 12.129 ng/ul  
RT: 12.35 min Scan# 1574  
Delta R.T. 0.00 min  
Lab File: BM010518.D  
Acq: 11 Jun 2017 10:46

Instrument :  
BNA\_M  
ClientSampleId :  
F5C33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 245263 |       |       |
| 141     | 92.3  | 74.1   | 111.1 |       |

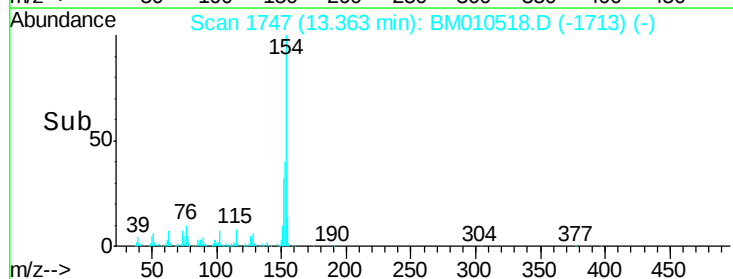
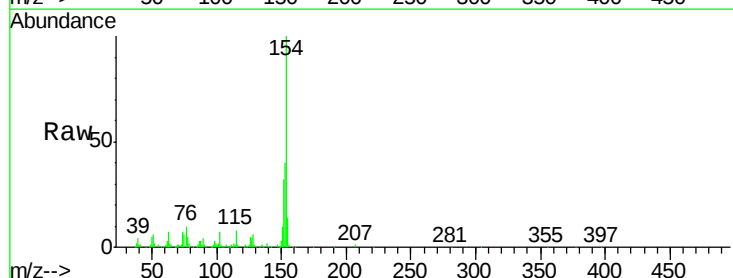
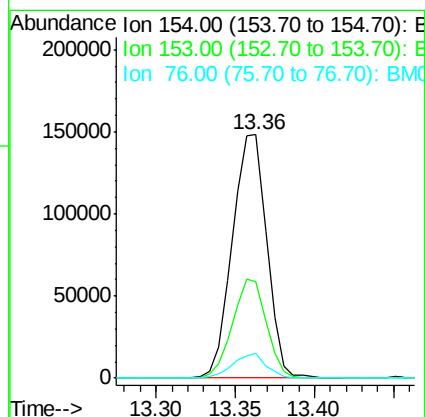
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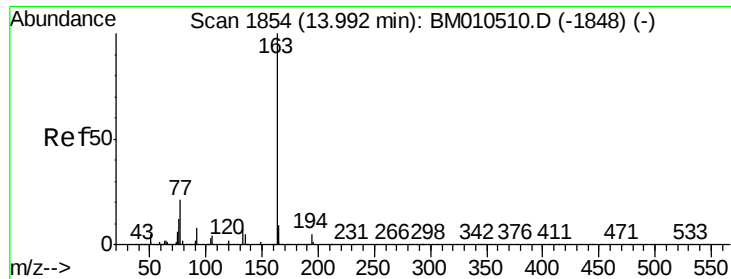
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#40  
1,1'-Biphenyl  
Concen: 7.131 ng/ul  
RT: 13.36 min Scan# 1747  
Delta R.T. 0.00 min  
Lab File: BM010518.D  
Acq: 11 Jun 2017 10:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 222921 |       |       |
| 153     | 39.8  | 32.6   | 48.8  |       |
| 76      | 10.3  | 8.5    | 12.7  |       |





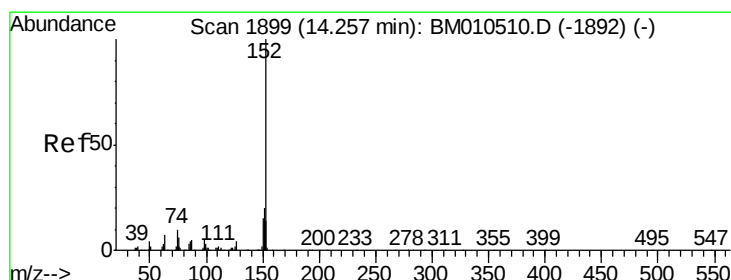
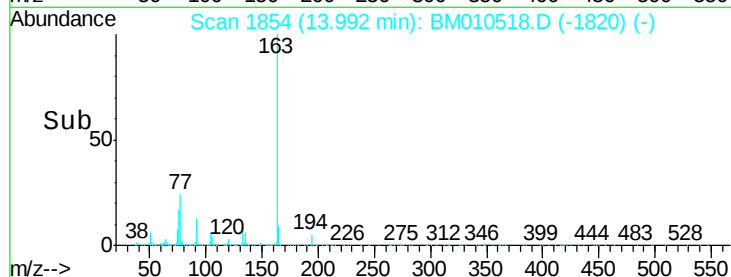
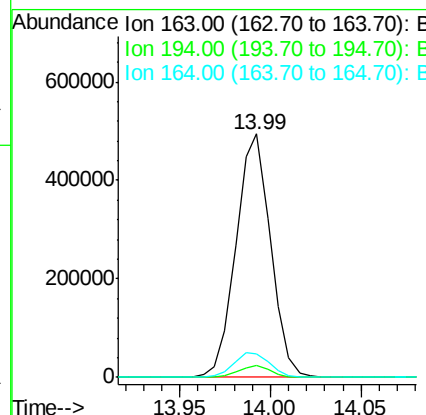
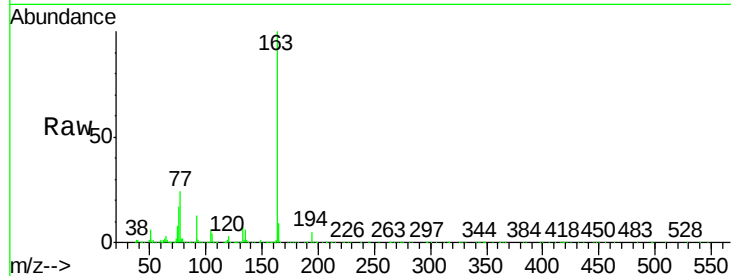
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Dimethylphthalate  
Concen: 20.700 ng/ul  
RT: 13.99 min Scan# 1854  
Delta R.T. 0.00 min  
Lab File: BM010518.D  
Acq: 11 Jun 2017 10:46

Instrument :  
BNA\_M  
ClientSampleId :  
F5C33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 651827 |       |       |
| 194     | 4.9   | 3.5    | 5.3   |       |
| 164     | 9.4   | 8.2    | 12.4  |       |

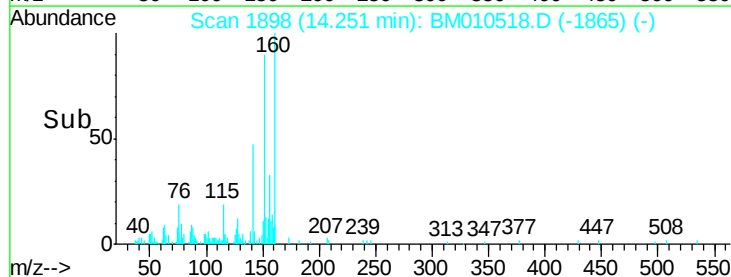
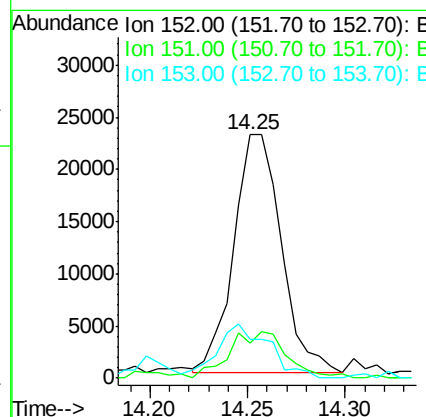
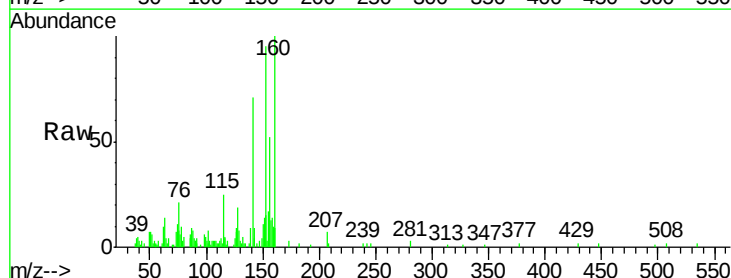
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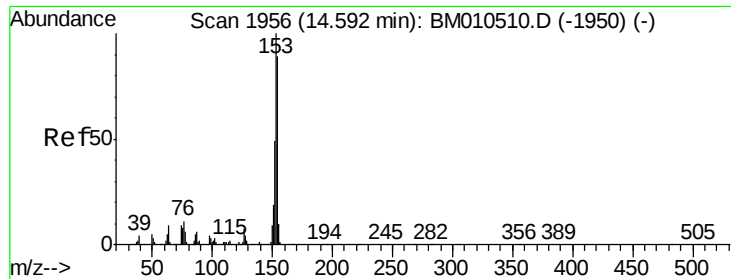
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#47  
Acenaphthylene  
Concen: 1.056 ng/ul  
RT: 14.25 min Scan# 1898  
Delta R.T. -0.01 min  
Lab File: BM010518.D  
Acq: 11 Jun 2017 10:46

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 152     | 100   | 38539 |       |       |
| 151     | 14.3  | 16.3  | 24.5# |       |
| 153     | 16.0  | 10.2  | 15.4# |       |





#49

Acenaphthene

Concen: 38.411 ng/ul

RT: 14.59 min Scan# 1956

Delta R.T. 0.00 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

Instrument :

BNA\_M

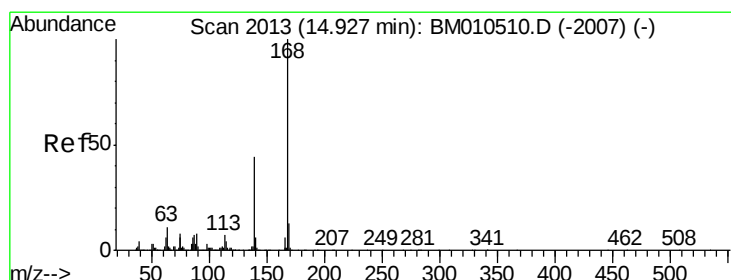
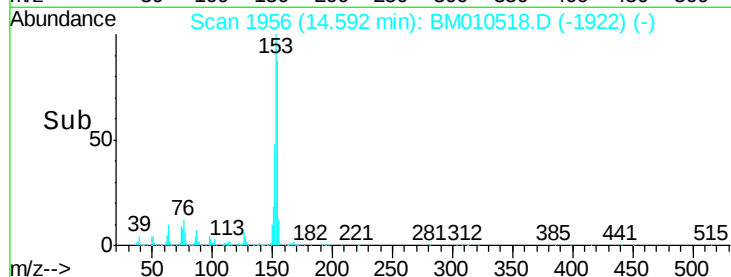
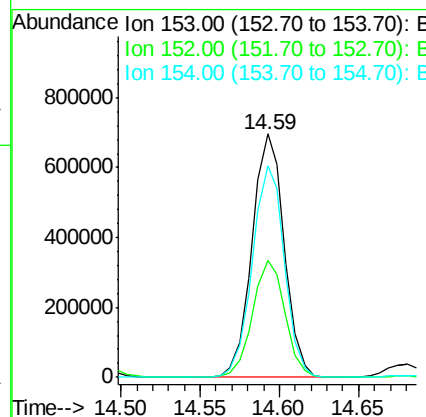
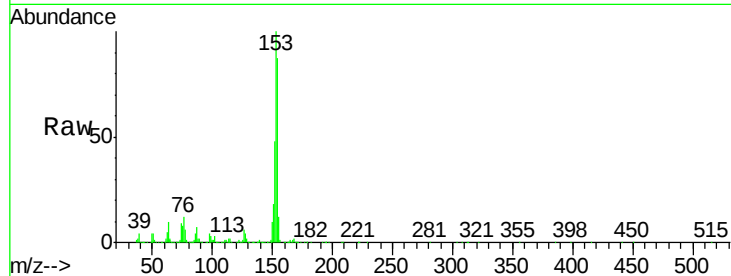
ClientSampleId :

F5C33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 983302 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 48.0  | 37.6  | 56.4   |
| 154       | 86.8  | 70.4  | 105.6  |

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#53

Dibenzofuran

Concen: 34.265 ng/ul

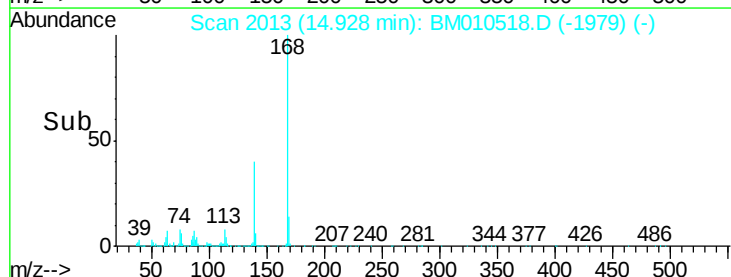
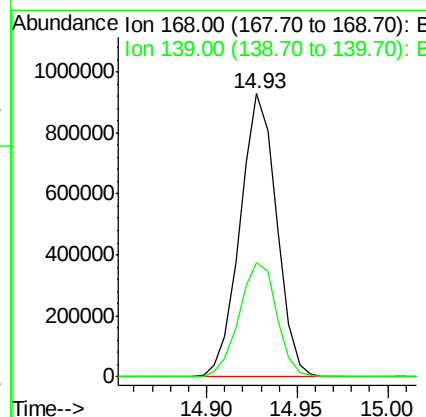
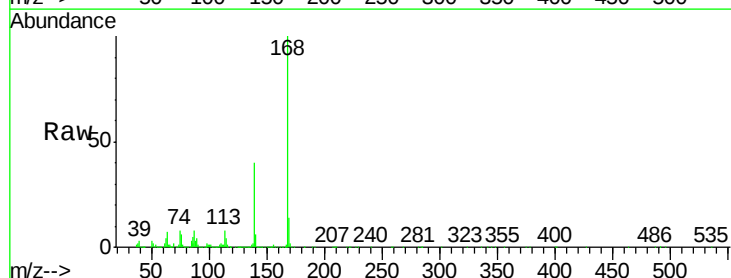
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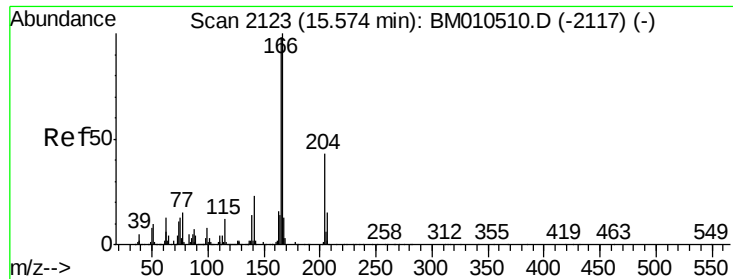
Delta R.T. 0.00 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 168   | Resp: | 1297042 |
| Ion Ratio | Lower | Upper |         |
| 168       | 100   |       |         |
| 139       | 40.5  | 30.8  | 46.2    |





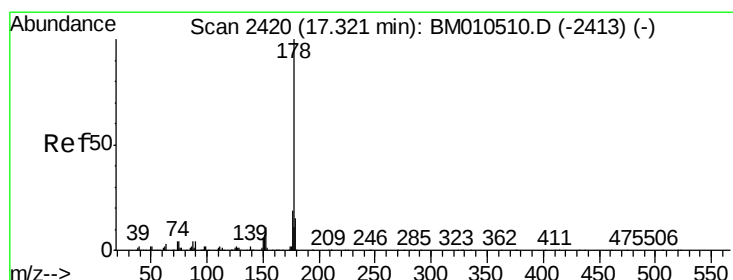
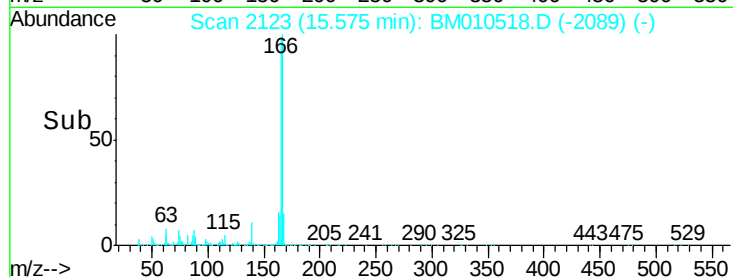
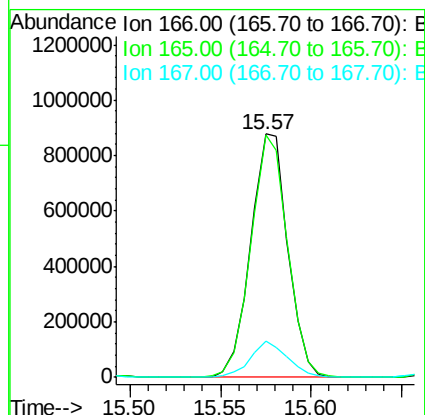
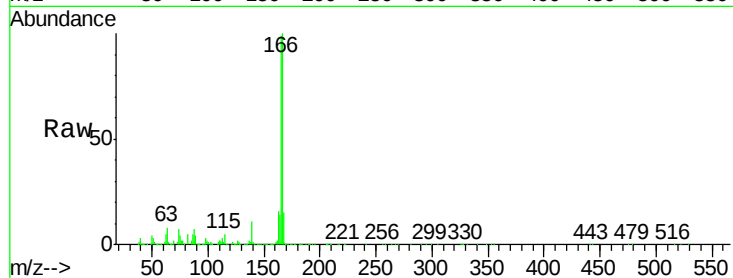
#58  
 Fluorene  
 Concen: 40.080 ng/ul  
 RT: 15.57 min Scan# 2123  
 Delta R.T. 0.00 min  
 Lab File: BM010518.D  
 Acq: 11 Jun 2017 10:46

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5C33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.3  | 77.9  | 116.9 |
| 167     | 14.7  | 10.6  | 16.0  |

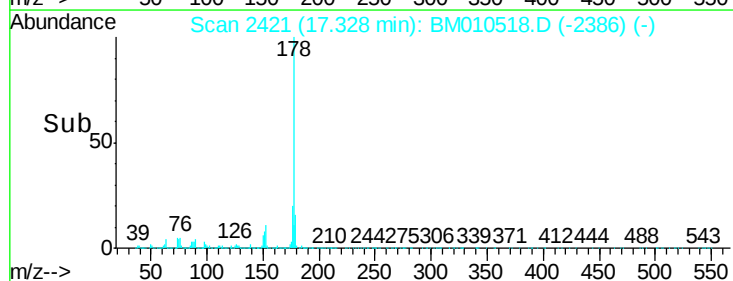
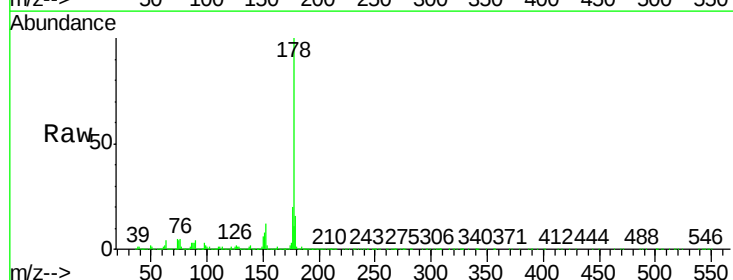
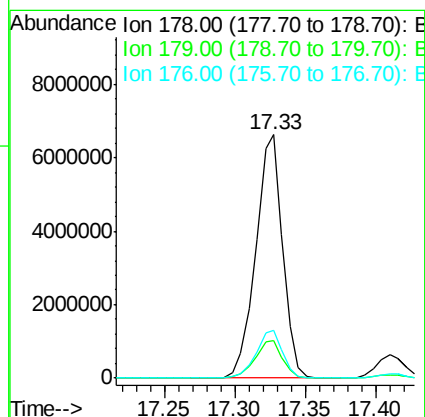
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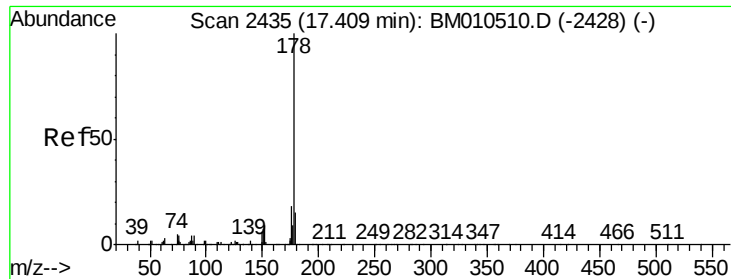
mohammad  
 6/12/2017 3:41:27 PM



#69  
 Phenanthrene  
 Concen: 166.181 ng/ul  
 RT: 17.33 min Scan# 2421  
 Delta R.T. 0.01 min  
 Lab File: BM010518.D  
 Acq: 11 Jun 2017 10:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.6  | 12.6  | 19.0  |
| 176     | 19.7  | 14.9  | 22.3  |





#71

Anthracene

Concen: 14.942 ng/ul

RT: 17.41 min Scan# 2435

Delta R.T. 0.00 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

Instrument :

BNA\_M

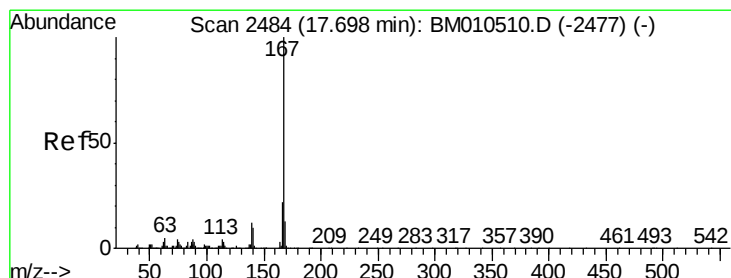
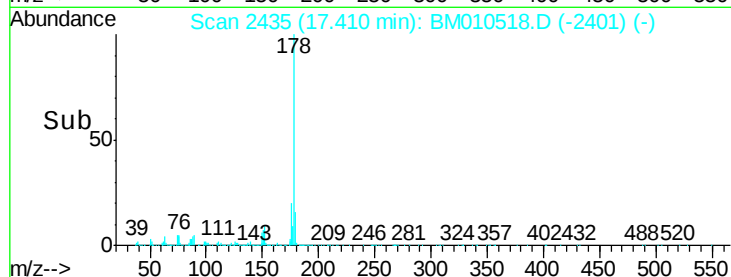
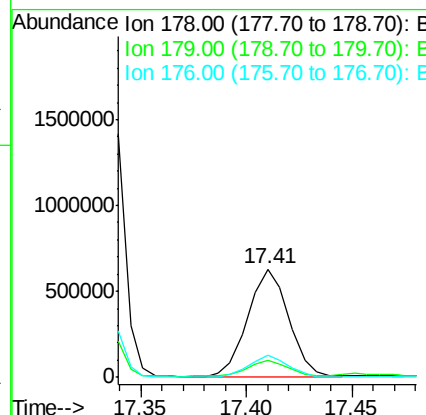
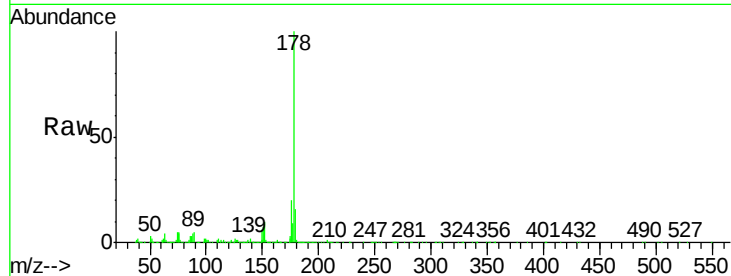
ClientSampled :

F5C33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 832737 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.6  | 11.7  | 17.5   |
| 176       | 20.1  | 14.6  | 21.8   |

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#72

Carbazole

Concen: 4.151 ng/ul

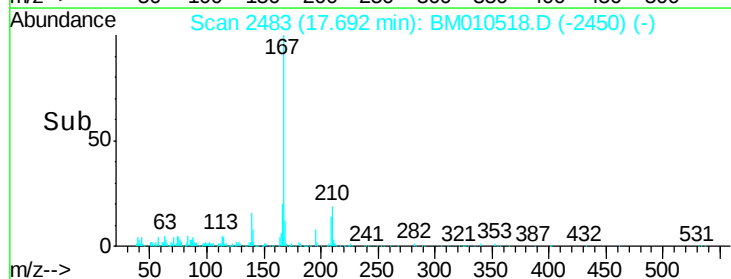
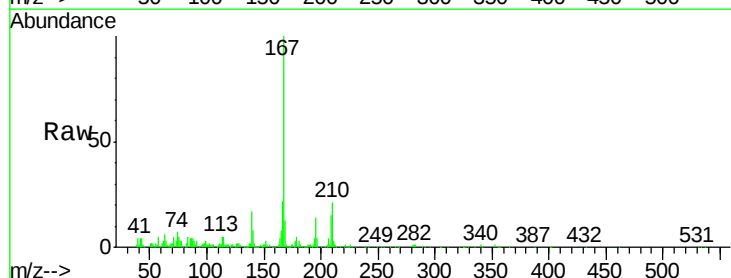
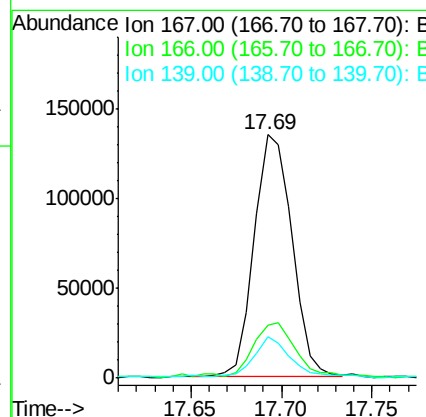
RT: 17.69 min Scan# 2483

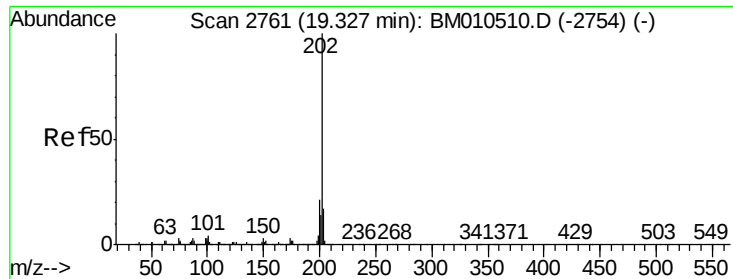
Delta R.T. -0.01 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 195829 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 21.9  | 17.1  | 25.7   |
| 139       | 16.8  | 10.0  | 15.0#  |





#74

Fluoranthene

Concen: 101.011 ng/ul

RT: 19.33 min Scan# 2762

Delta R.T. 0.01 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

Instrument :

BNA\_M

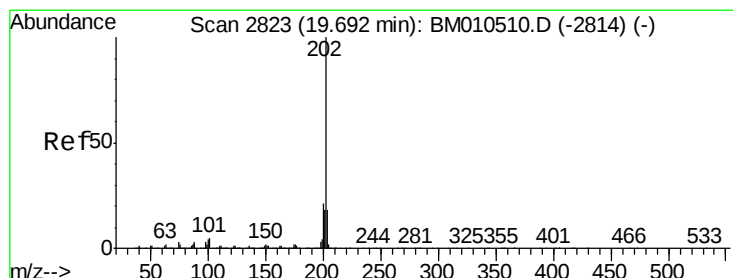
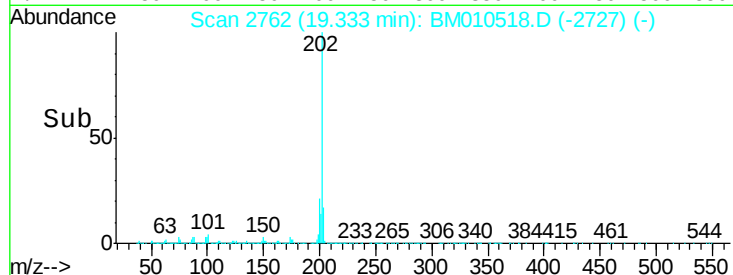
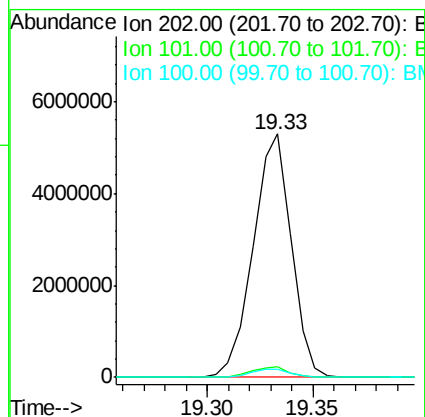
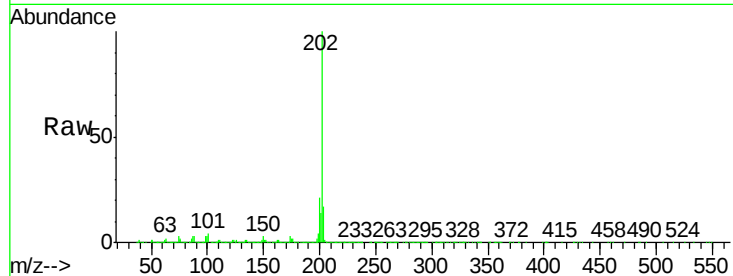
ClientSampleId :

F5C33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 4.3   | 4.6   | 7.0#  |
| 100     | 3.5   | 3.4   | 5.2   |

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#77

Pyrene

Concen: 56.213 ng/ul

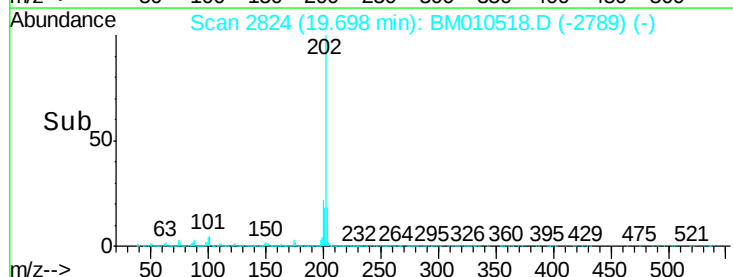
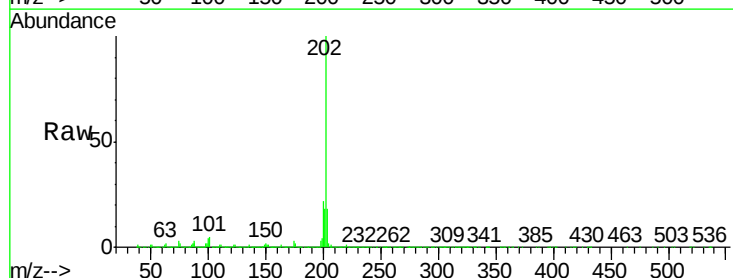
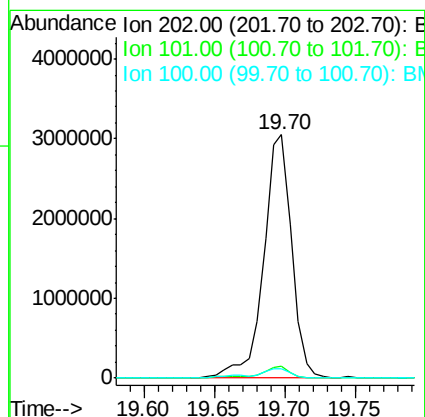
RT: 19.70 min Scan# 2824

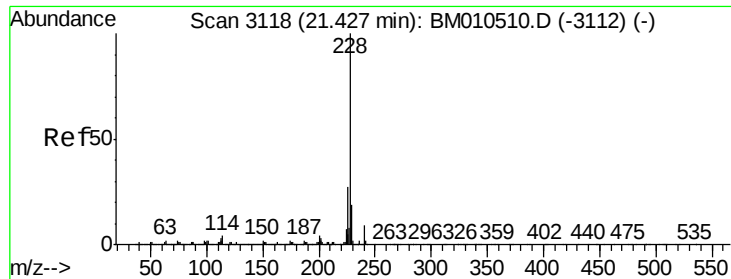
Delta R.T. 0.01 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 4.7   | 5.1   | 7.7#  |
| 100     | 3.8   | 4.9   | 7.3#  |





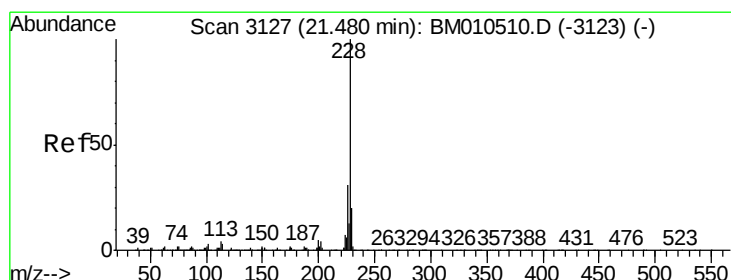
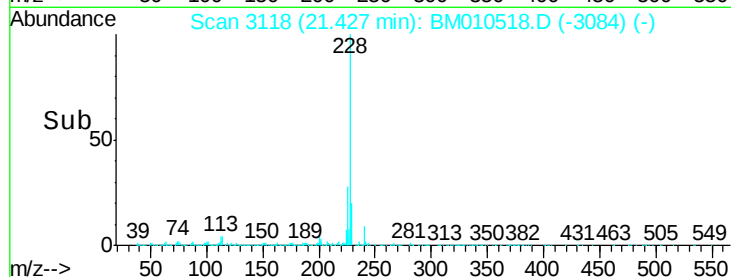
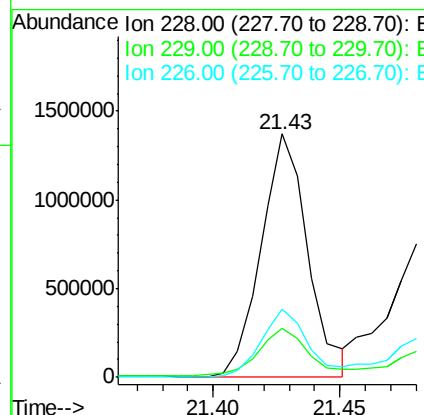
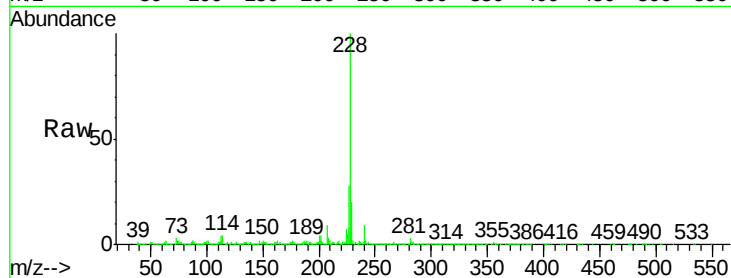
#80  
Benzo(a)anthracene  
Concen: 21.212 ng/ul  
RT: 21.43 min Scan# 3118  
Delta R.T. 0.00 min  
Lab File: BM010518.D  
Acq: 11 Jun 2017 10:46

Instrument :  
BNA\_M  
ClientSampleId :  
F5C33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.3  | 15.4  | 23.0  |
| 226     | 27.9  | 21.4  | 32.0  |

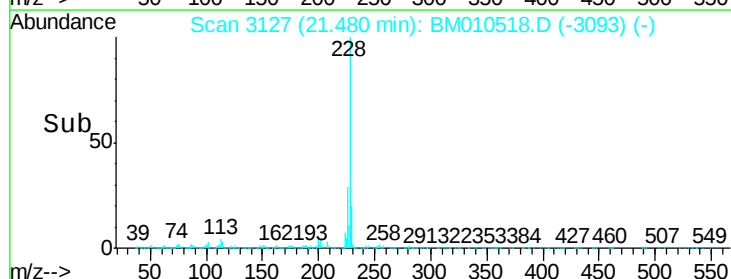
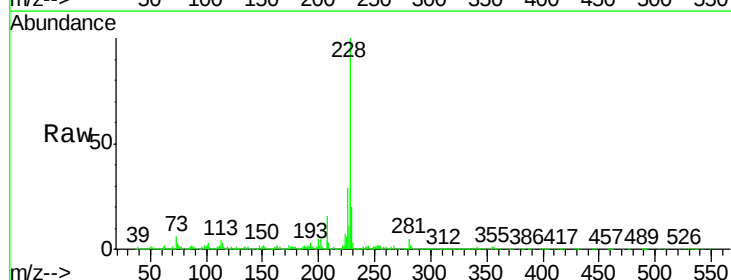
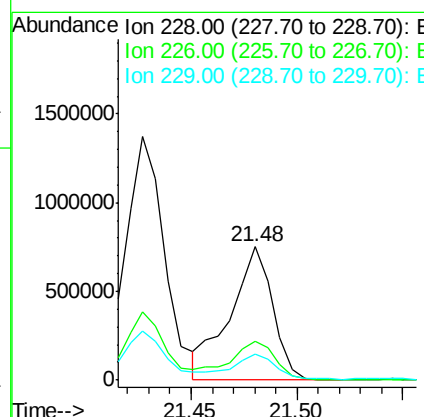
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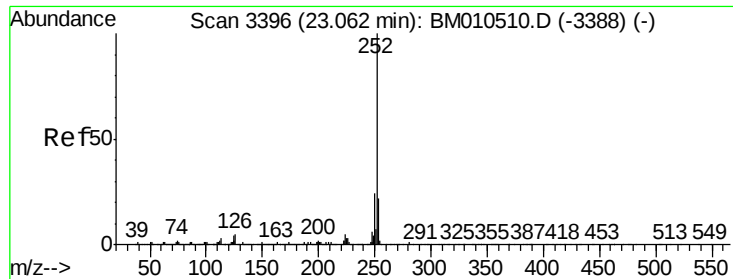
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#82  
Chrysene  
Concen: 13.864 ng/ul  
RT: 21.48 min Scan# 3127  
Delta R.T. 0.00 min  
Lab File: BM010518.D  
Acq: 11 Jun 2017 10:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.3  | 23.4  | 35.2  |
| 229     | 20.0  | 15.5  | 23.3  |





#85

Benzo(b)fluoranthene

Concen: 14.420 ng/ul

RT: 23.07 min Scan# 3397

Delta R.T. 0.01 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

Instrument :

BNA\_M

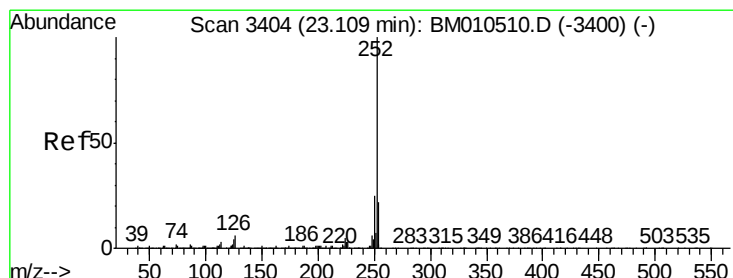
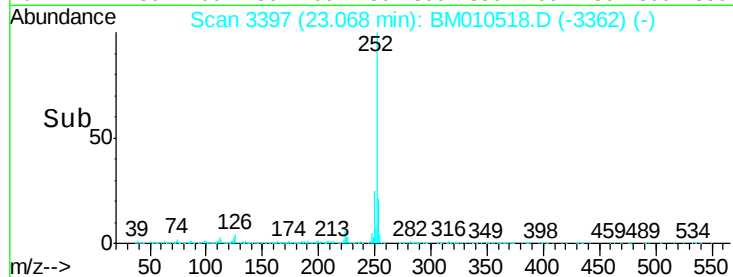
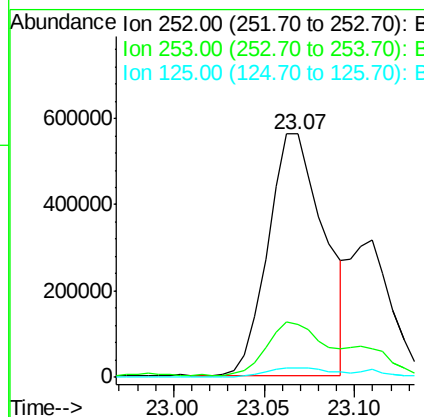
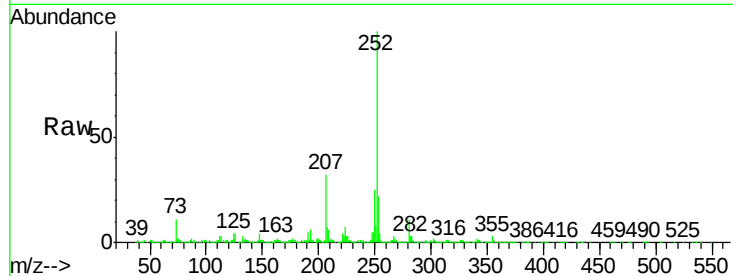
ClientSampleId :

F5C33

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1217473 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 21.9  | 17.9  | 26.9    |
| 125       | 3.7   | 3.6   | 5.4     |

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#86

Benzo(k)fluoranthene

Concen: 6.278 ng/ul m

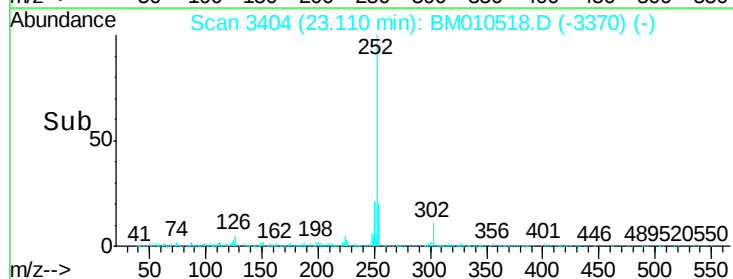
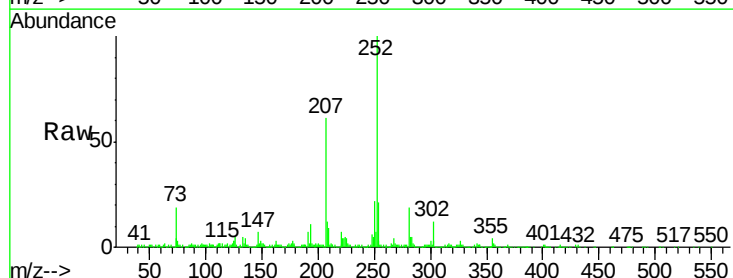
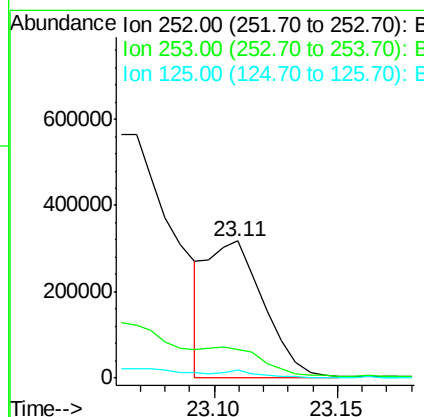
RT: 23.11 min Scan# 3404

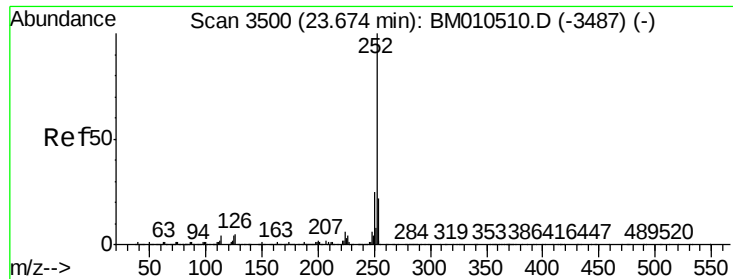
Delta R.T. 0.00 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 506327 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.1  | 17.1  | 25.7   |
| 125       | 3.1   | 3.4   | 5.2#   |





#88

Benzo(a)pyrene

Concen: 9.923 ng/ul m

RT: 23.67 min Scan# 3500

Delta R.T. 0.00 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

Instrument :

BNA\_M

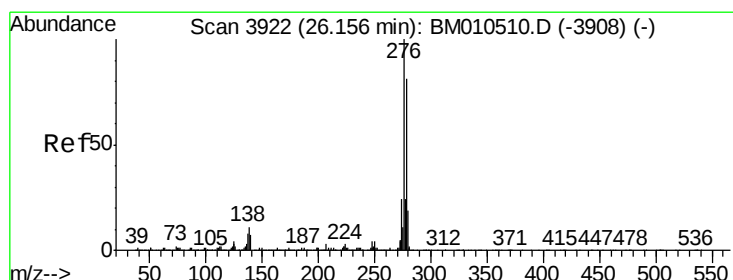
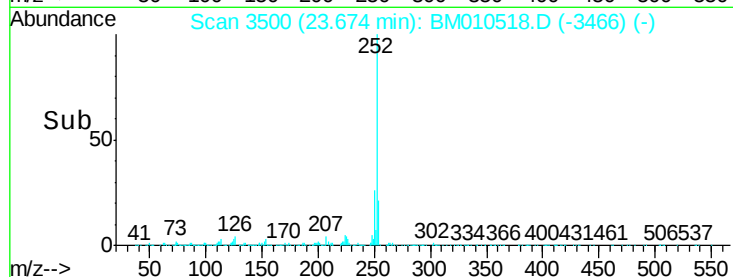
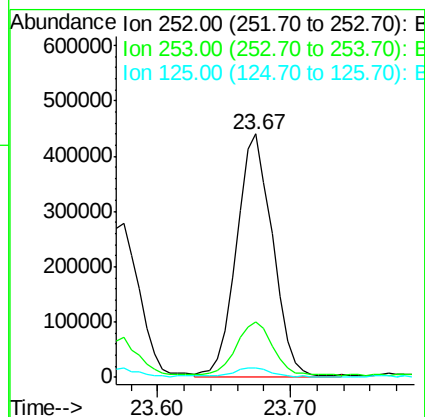
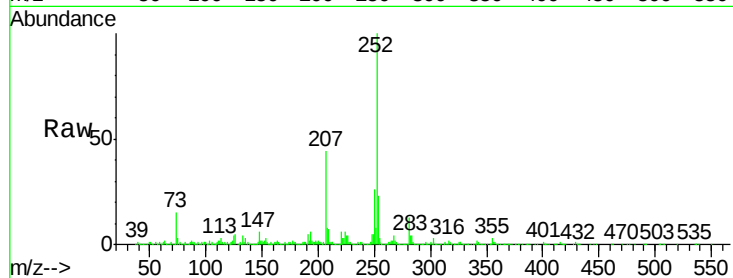
ClientSampleId :

F5C33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 830448 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 18.2  | 27.2   |
| 125       | 3.7   | 4.0   | 6.0#   |

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#89

Indeno(1,2,3-cd)pyrene

Concen: 3.206 ng/ul

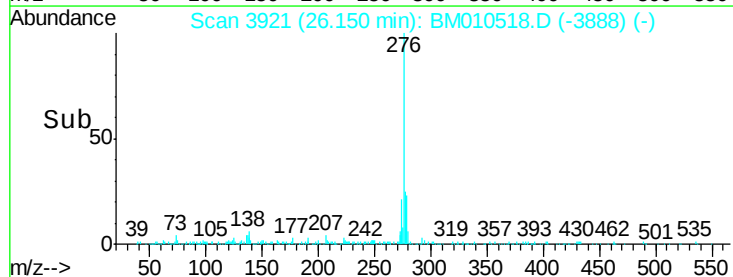
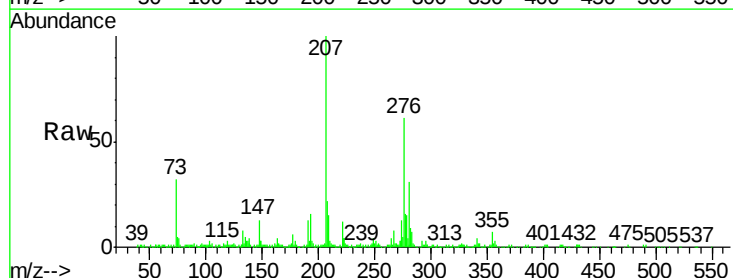
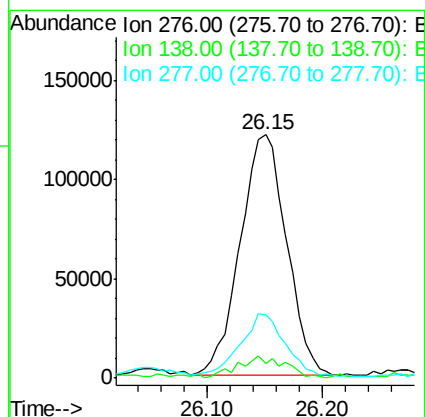
RT: 26.15 min Scan# 3921

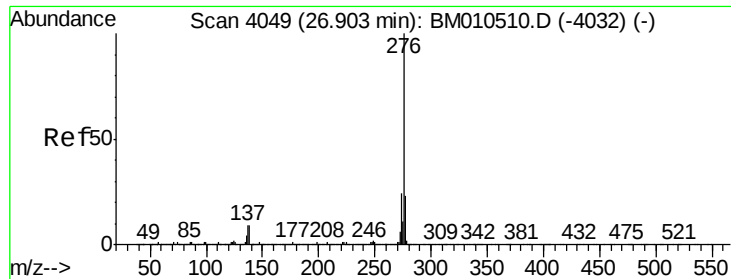
Delta R.T. -0.01 min

Lab File: BM010518.D

Acq: 11 Jun 2017 10:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 338984 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 9.9   | 9.3   | 13.9   |
| 277       | 25.9  | 19.9  | 29.9   |





#91  
 Benzo(g,h,i)perylene  
 Concen: 2.944 ng/ul  
 RT: 26.90 min Scan# 4048  
 Delta R.T. -0.01 min  
 Lab File: BM010518.D  
 Acq: 11 Jun 2017 10:46

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5C33

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 276 | 100  |       | 256408 |       |       |
| 138 | 8.1  | 8.5   | 12.7#  |       |       |
| 277 | 21.3 | 18.6  | 28.0   |       |       |

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