

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\  
 Data File : BM014448.D  
 Acq On : 02 Mar 2018 00:23  
 Operator : SJ/JU  
 Sample : J1678-21  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BE5Z4

Manual Integrations  
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Sohil  
 3/2/2018 3:32:11 PM

Quant Time: Mar 02 11:41:29 2018  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Mar 01 03:03:26 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.52  | 152  | 23097    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.29 | 136  | 132176   | 20.00 | ng/ul | 0.01     |
| 35) Acenaphthene-d10      | 14.18 | 164  | 109650   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.95 | 188  | 352890   | 20.00 | ng/ul | 0.02     |
| 75) Chrysene-d12          | 21.19 | 240  | 761365   | 20.00 | ng/ul | 0.04     |
| 83) Perylene-d12          | 23.39 | 264  | 514543m  | 20.00 | ng/ul | 0.07     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.09  | 96  | 2637m   | 4.89  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.74  | 99  | 70816   | 36.28 | ng/ul | 0.02 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.87  | 67  | 35351   | 29.92 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.07  | 132 | 58569   | 39.13 | ng/ul | 0.02 |
| 13) 4-Methylphenol-d8          | 8.26  | 113 | 57422   | 33.62 | ng/ul | 0.02 |
| 19) Nitrobenzene-d5            | 8.69  | 128 | 31620   | 32.37 | ng/ul | 0.02 |
| 22) 2-Nitrophenol-d4           | 9.39  | 143 | 33764   | 33.40 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.95  | 165 | 74503   | 35.58 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.46 | 131 | 93934   | 45.53 | ng/ul | 0.01 |
| 43) Dimethylphthalate-d6       | 13.60 | 166 | 303004  | 33.46 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.87 | 160 | 403134  | 36.10 | ng/ul | 0.01 |
| 51) 4-Nitrophenol-d4           | 14.49 | 143 | 38871   | 31.09 | ng/ul | 0.06 |
| 57) Fluorene-d10               | 15.19 | 176 | 319604  | 39.40 | ng/ul | 0.01 |
| 62) 4,6-Dinitro-2-methylphenol | 15.37 | 200 | 1061    | 0.50  | ng/ul | 0.04 |
| 70) Anthracene-d10             | 17.06 | 188 | 648085  | 38.06 | ng/ul | 0.02 |
| 76) Pyrene-d10                 | 19.37 | 212 | 1044754 | 26.60 | ng/ul | 0.02 |
| 87) Benzo(a)pyrene-d12         | 23.25 | 264 | 874694  | 34.93 | ng/ul | 0.06 |

## Target Compounds

|                            |       |     |           |         | Ovalue    |
|----------------------------|-------|-----|-----------|---------|-----------|
| 6) Phenol                  | 6.76  | 94  | 6703      | 3.272   | ng/ul 92  |
| 14) Acetophenone           | 8.35  | 105 | 8725      | 2.961   | ng/ul# 89 |
| 28) Naphthalene            | 10.34 | 128 | 99924     | 14.719  | ng/ul 98  |
| 34) 2-Methylnaphthalene    | 11.96 | 142 | 50192     | 9.714   | ng/ul 83  |
| 40) 1,1'-Biphenyl          | 13.00 | 154 | 26065     | 3.086   | ng/ul# 87 |
| 44) Dimethylphthalate      | 13.65 | 163 | 49929     | 5.592   | ng/ul 100 |
| 47) Acenaphthylene         | 13.90 | 152 | 816534    | 77.369  | ng/ul 98  |
| 49) Acenaphthene           | 14.24 | 153 | 237897    | 32.012  | ng/ul 96  |
| 53) Dibenzofuran           | 14.59 | 168 | 399760    | 35.876  | ng/ul 91  |
| 58) Fluorene               | 15.24 | 166 | 633771    | 65.883  | ng/ul 96  |
| 60) 4-Nitroaniline         | 15.32 | 138 | 5657      | 3.508   | ng/ul 87  |
| 69) Phenanthrene           | 17.00 | 178 | 15492822  | 761.989 | ng/ul 95  |
| 71) Anthracene             | 17.09 | 178 | 3881050   | 189.804 | ng/ul 99  |
| 72) Carbazole              | 17.37 | 167 | 1497463   | 87.094  | ng/ul 98  |
| 74) Fluoranthene           | 19.04 | 202 | 23198440m | 955.005 | ng/ul     |
| 77) Pyrene                 | 19.41 | 202 | 21890785m | 432.639 | ng/ul     |
| 80) Benzo(a)anthracene     | 21.17 | 228 | 16017900  | 337.100 | ng/ul# 85 |
| 82) Chrysene               | 21.23 | 228 | 12785712  | 288.440 | ng/ul# 87 |
| 85) Benzo(b)fluoranthene   | 22.75 | 252 | 15662629  | 454.610 | ng/ul# 98 |
| 86) Benzo(k)fluoranthene   | 22.79 | 252 | 4217787m  | 128.762 | ng/ul     |
| 88) Benzo(a)pyrene         | 23.31 | 252 | 10928708m | 354.976 | ng/ul     |
| 89) Indeno(1,2,3-cd)pyrene | 25.63 | 276 | 5952413m  | 199.244 | ng/ul     |
| 90) Dibenz(a,h)anthracene  | 25.60 | 278 | 1505880m  | 60.662  | ng/ul     |

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Sample : J1678-21  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Z4

Manual Integrations  
APPROVED

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3/2/2018 3:32:11 PM

Quant Time: Mar 02 11:41:29 2018  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Mar 01 03:03:26 2018  
Response via : Initial Calibration

| Internal Standards       | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------|-------|------|----------|---------|-------|----------|
| 91) Benzo(q,h,i)perylene | 26.30 | 276  | 4193117m | 173.258 | ng/ul |          |

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

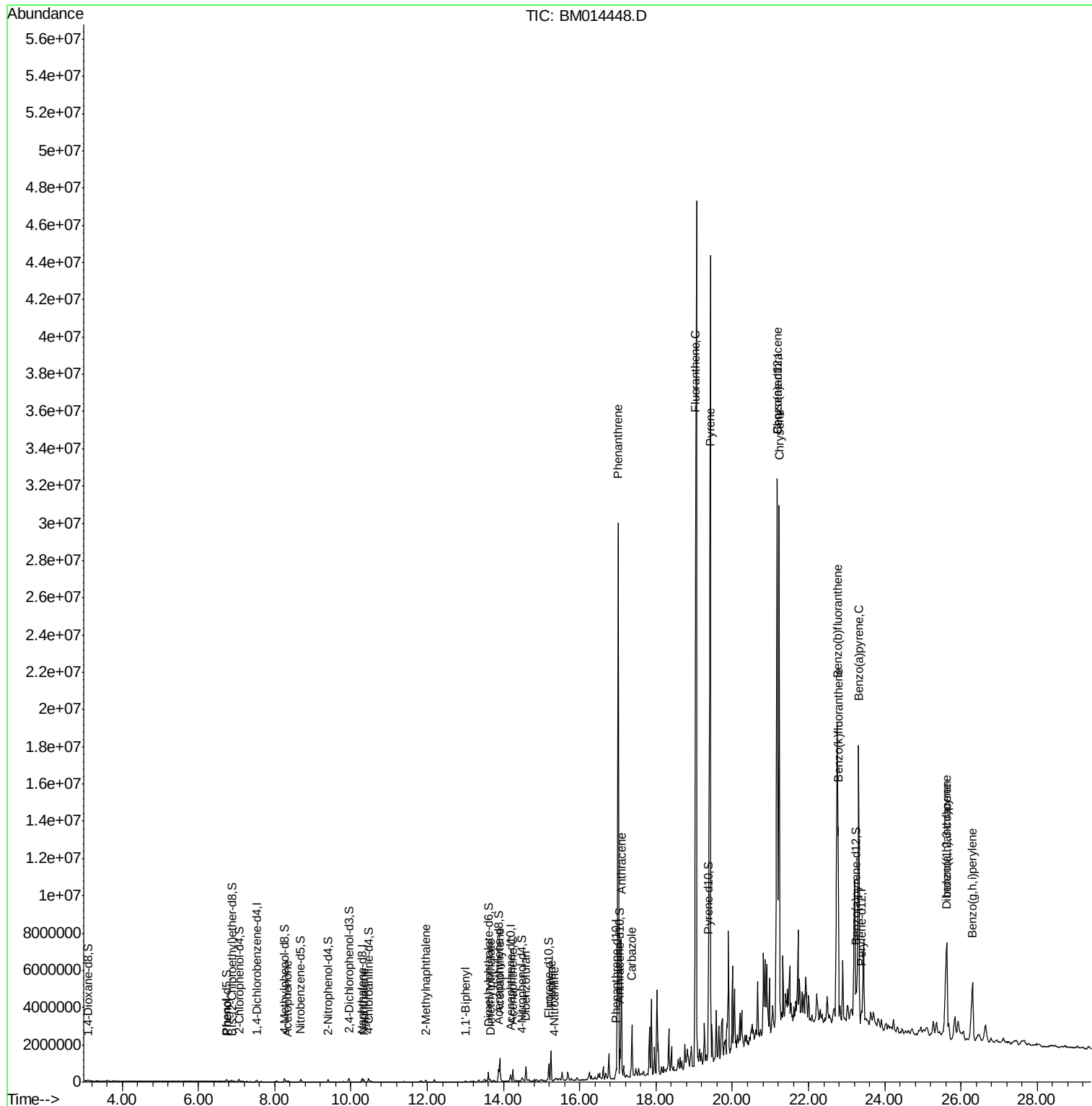
Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\  
 Data File : BM014448.D  
 Acq On : 02 Mar 2018 00:23  
 Operator : SJ/JU  
 Sample : J1678-21  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

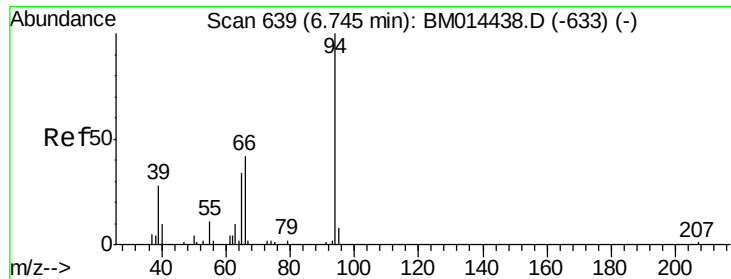
Instrument :  
 BNA\_M  
 ClientSampleId :  
 BE5Z4

Manual Integrations  
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 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
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 QLast Update : Thu Mar 01 03:03:26 2018  
 Response via : Initial Calibration





#6

Phenol

Concen: 3.272 ng/ul

RT: 6.76 min Scan# 642

Delta R.T. 0.02 min

Lab File: BM014448.D

Acq: 02 Mar 2018 00:23

Instrument :

BNA\_M

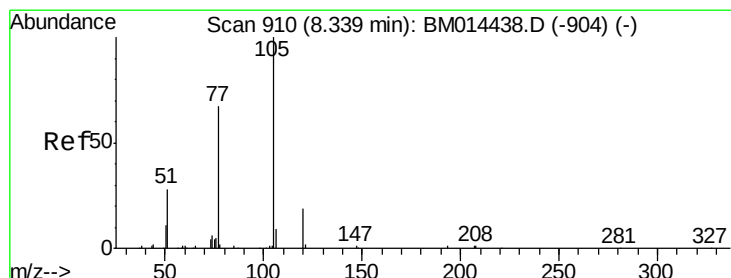
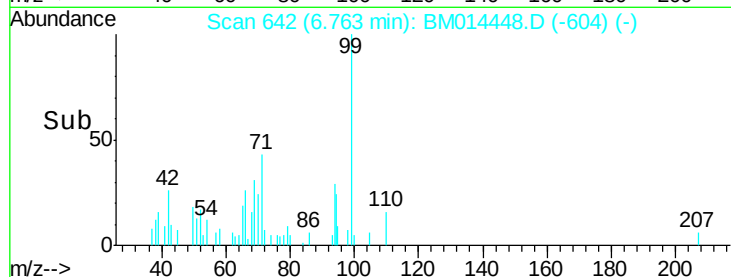
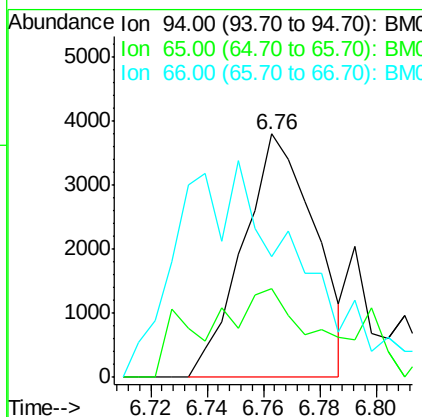
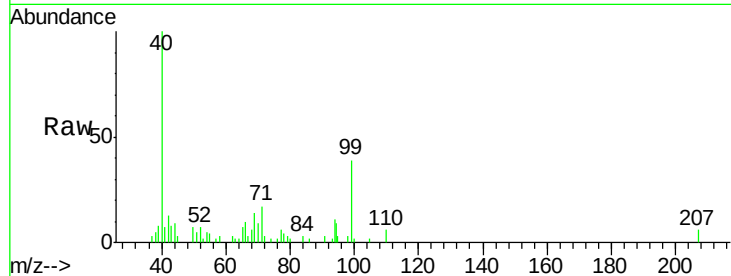
ClientSampled :

BE5Z4

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 94    | Resp: | 6703  |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 36.3  | 28.2  | 42.4  |
| 66       | 49.8  | 47.2  | 70.8  |

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#14

Acetophenone

Concen: 2.961 ng/ul

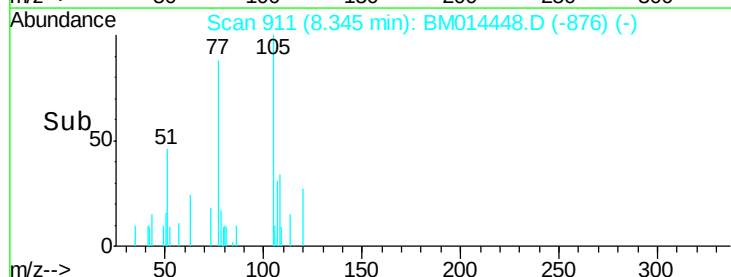
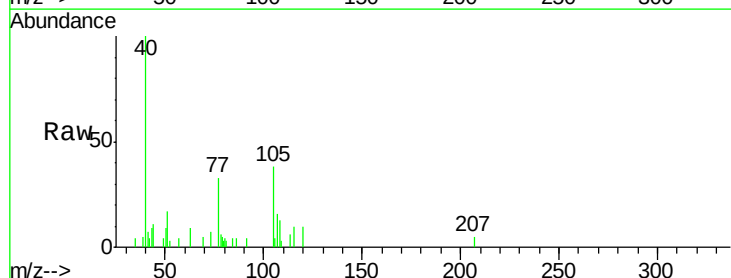
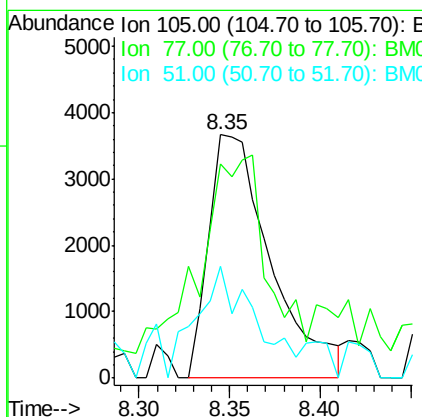
RT: 8.35 min Scan# 911

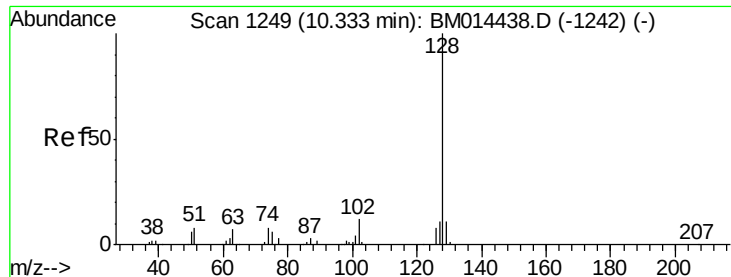
Delta R.T. 0.01 min

Lab File: BM014448.D

Acq: 02 Mar 2018 00:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 8725  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 77       | 88.0  | 74.2  | 111.4 |
| 51       | 46.1  | 23.4  | 35.2# |





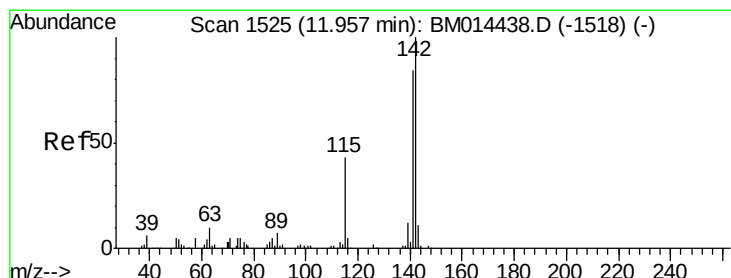
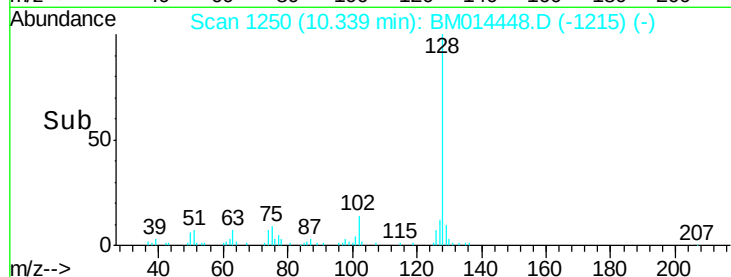
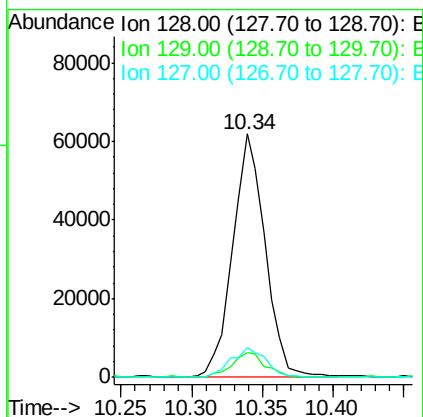
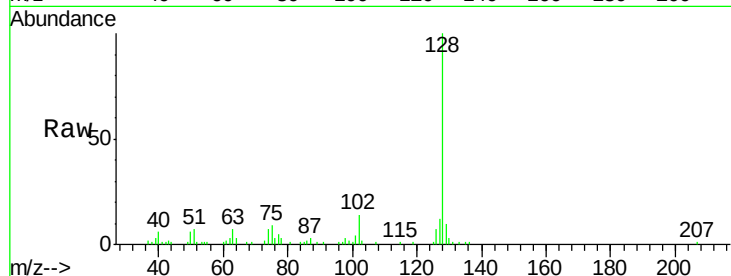
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Naphthalene  
Concen: 14.719 ng/ul  
RT: 10.34 min Scan# 1250  
Delta R.T. 0.01 min  
Lab File: BM014448.D  
Acq: 02 Mar 2018 00:23

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Z4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.3  | 8.8   | 13.2  |
| 127     | 12.3  | 10.6  | 16.0  |

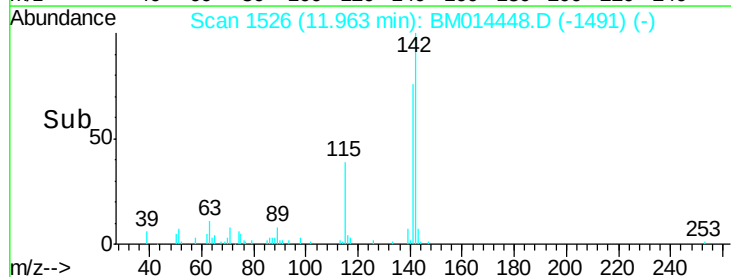
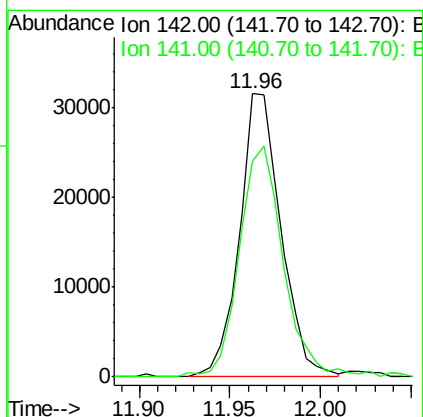
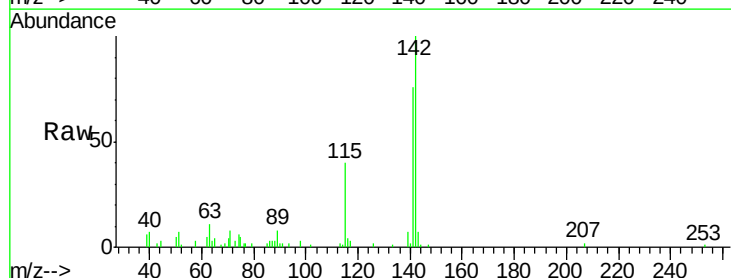
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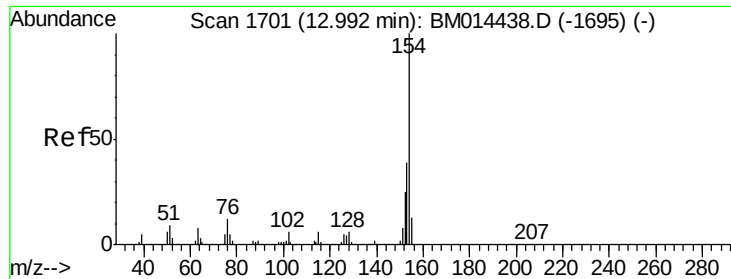
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#34  
2-Methylnaphthalene  
Concen: 9.714 ng/ul  
RT: 11.96 min Scan# 1526  
Delta R.T. 0.01 min  
Lab File: BM014448.D  
Acq: 02 Mar 2018 00:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 76.3  | 74.1  | 111.1 |





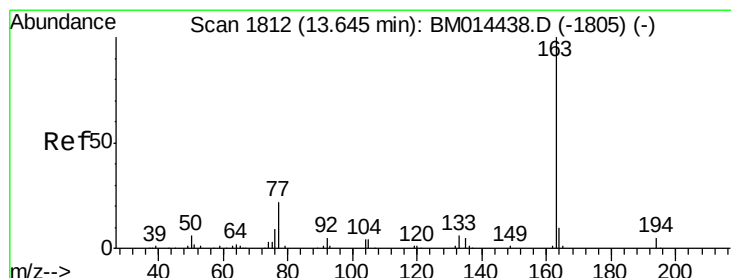
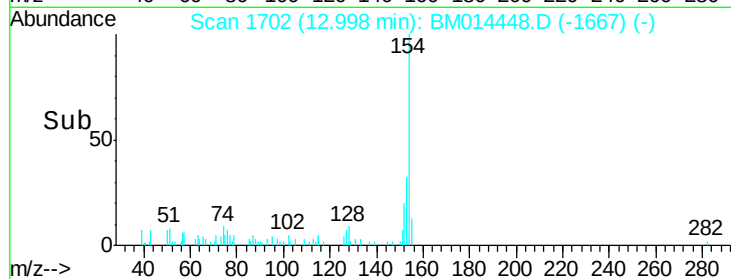
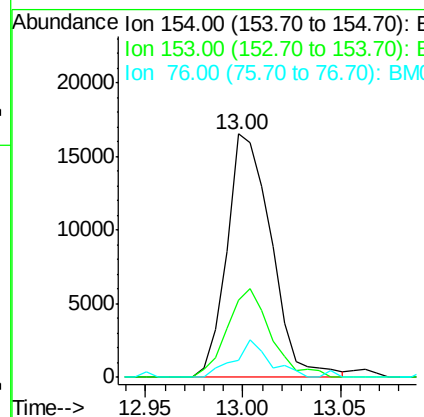
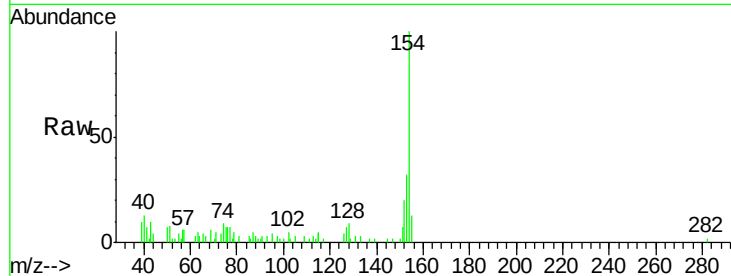
#40  
1,1'-Biphenyl  
Concen: 3.086 ng/ul  
RT: 13.00 min Scan# 1702  
Delta R.T. 0.01 min  
Lab File: BM014448.D  
Acq: 02 Mar 2018 00:23

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Z4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 31.9  | 32.6  | 48.8# |
| 76      | 6.8   | 8.5   | 12.7# |

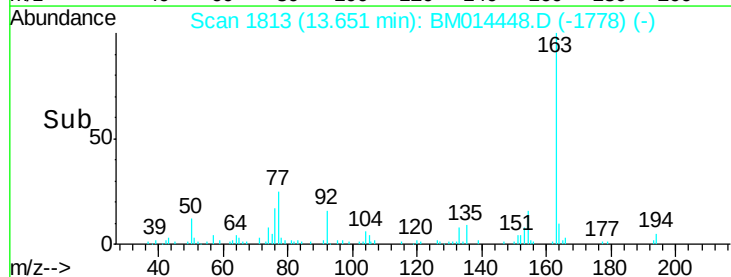
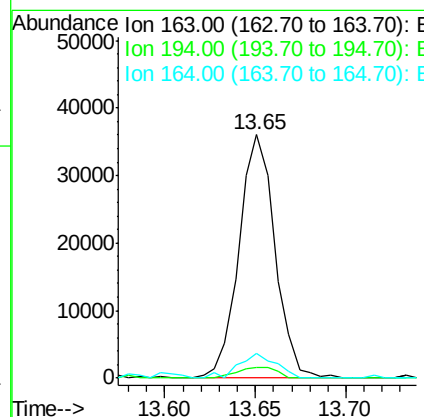
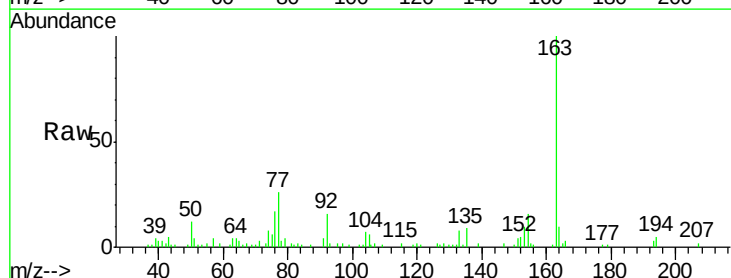
Manual Integrations  
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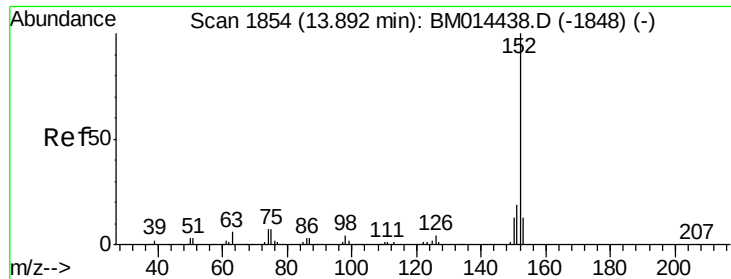
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#44  
Dimethylphthalate  
Concen: 5.592 ng/ul  
RT: 13.65 min Scan# 1813  
Delta R.T. 0.01 min  
Lab File: BM014448.D  
Acq: 02 Mar 2018 00:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.6   | 3.5   | 5.3   |
| 164     | 10.4  | 8.2   | 12.4  |





#47

Acenaphthylene

Concen: 77.369 ng/ul

RT: 13.90 min Scan# 1856

Delta R.T. 0.01 min

Lab File: BM014448.D

Acq: 02 Mar 2018 00:23

Instrument :

BNA\_M

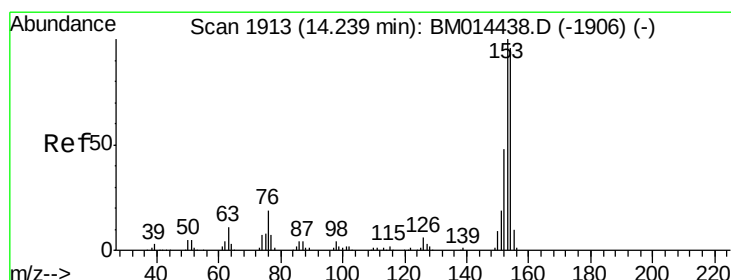
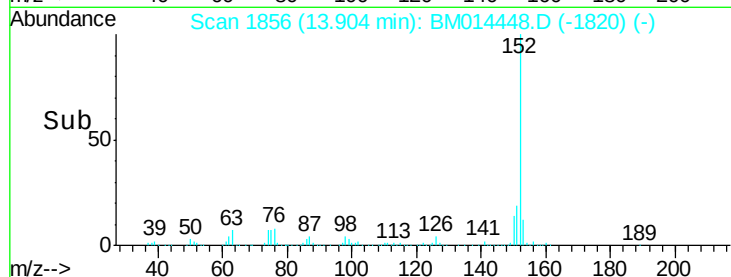
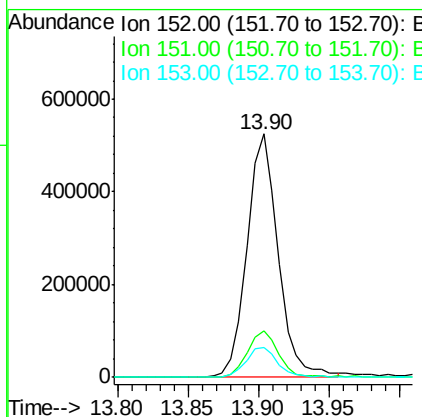
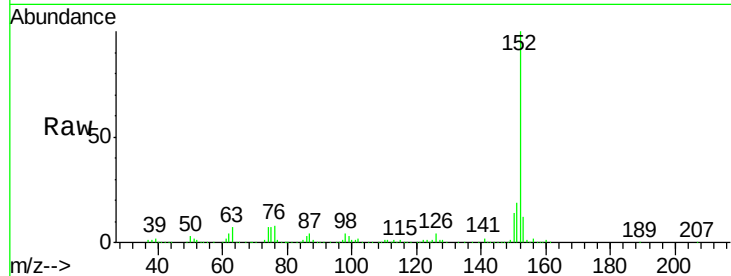
ClientSampleId :

BE5Z4

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 816534 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 18.9  | 16.3  | 24.5   |
| 153       | 12.5  | 10.2  | 15.4   |

Manual Integrations  
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#49

Acenaphthene

Concen: 32.012 ng/ul

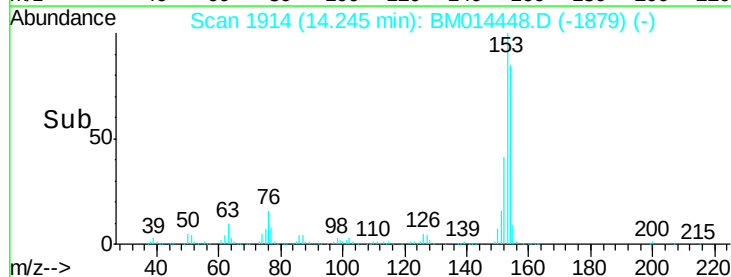
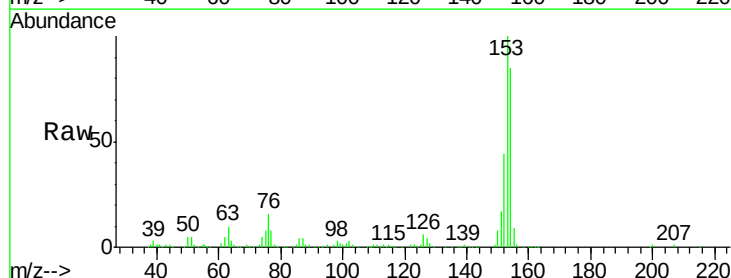
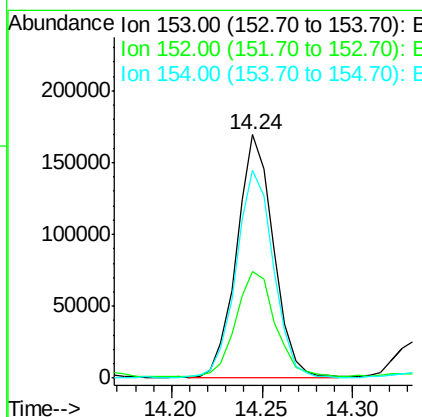
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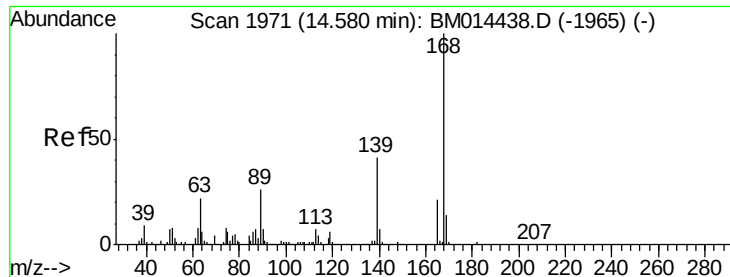
Delta R.T. 0.01 min

Lab File: BM014448.D

Acq: 02 Mar 2018 00:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 237897 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 43.8  | 37.6  | 56.4   |
| 154       | 85.4  | 70.4  | 105.6  |





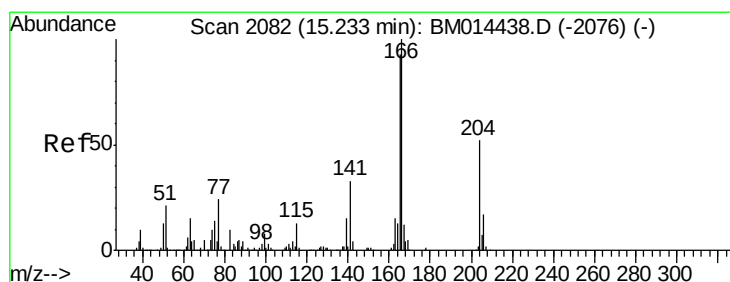
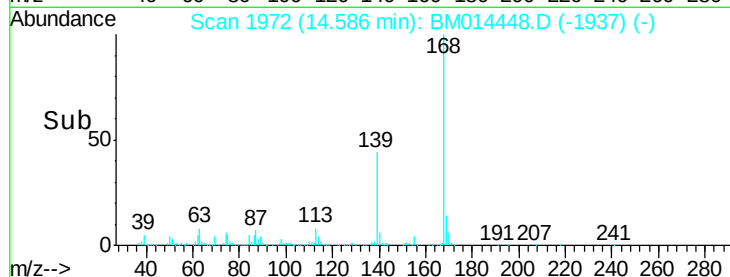
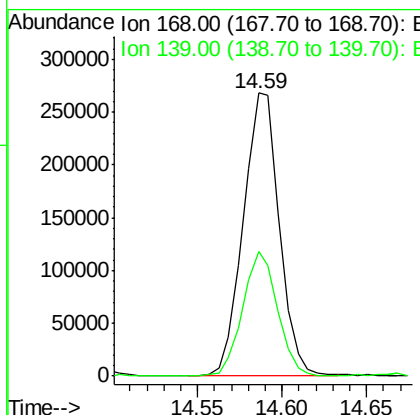
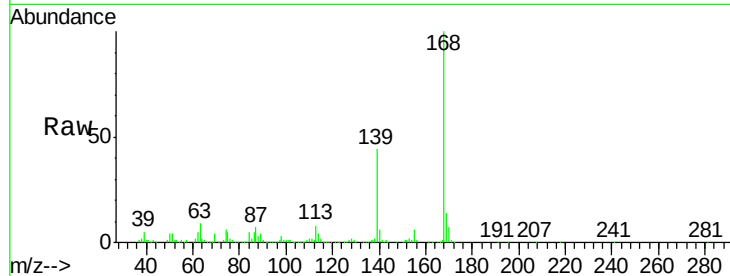
#53  
Dibenzenofuran  
Concen: 35.876 ng/ul  
RT: 14.59 min Scan# 1972  
Delta R.T. 0.01 min  
Lab File: BM014448.D  
Acq: 02 Mar 2018 00:23

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Z4

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 168     | 100  |       |       |       |
| 139     | 44.1 | 30.8  | 46.2  |       |

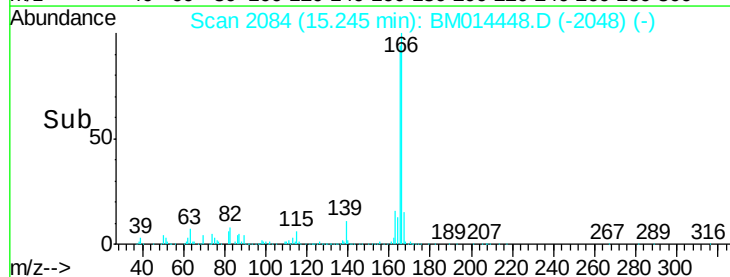
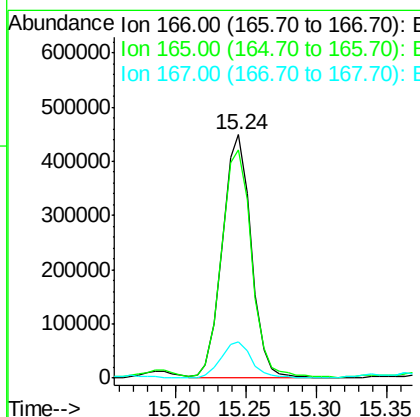
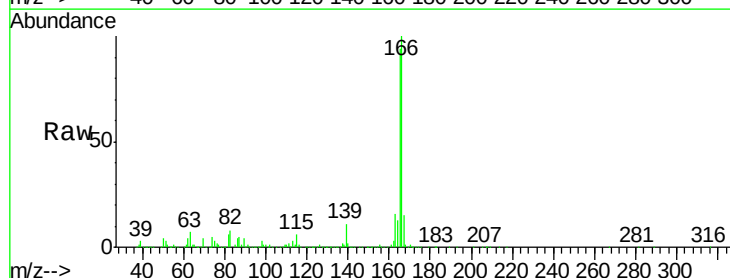
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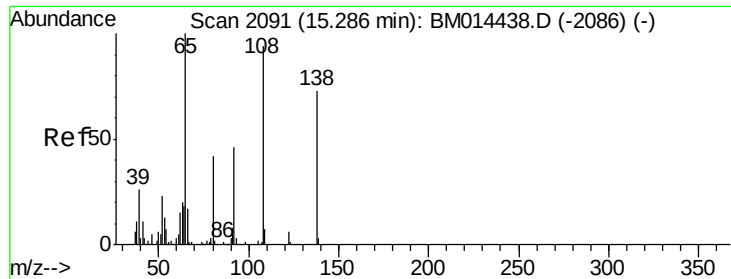


#58  
Fluorene  
Concen: 65.883 ng/ul  
RT: 15.24 min Scan# 2084  
Delta R.T. 0.01 min  
Lab File: BM014448.D  
Acq: 02 Mar 2018 00:23

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 166     | 100  |       |       |       |
| 165     | 93.9 | 77.9  | 116.9 |       |
| 167     | 14.8 | 10.6  | 16.0  |       |







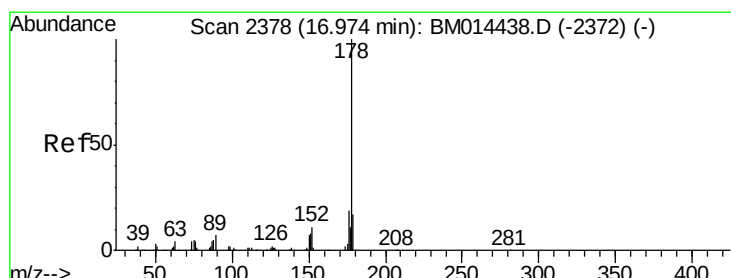
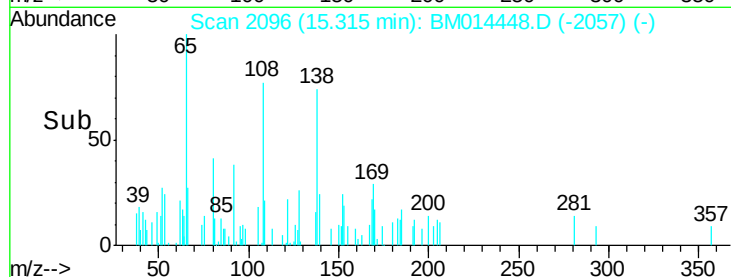
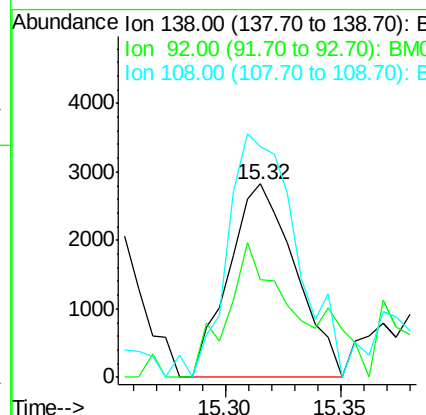
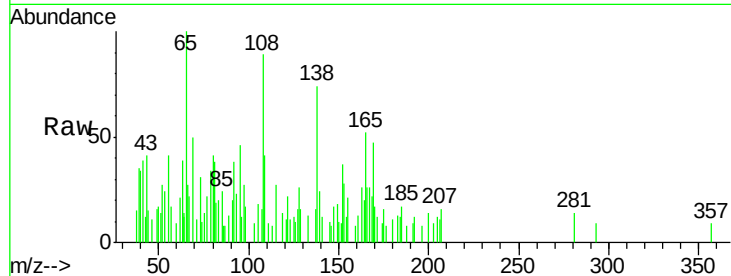
#60  
4-Nitroaniline  
Concen: 3.508 ng/ul  
RT: 15.32 min Scan# 2096  
Delta R.T. 0.03 min  
Lab File: BM014448.D  
Acq: 02 Mar 2018 00:23

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Z4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 92      | 50.5  | 40.0  | 60.0  |
| 108     | 119.2 | 80.0  | 120.0 |

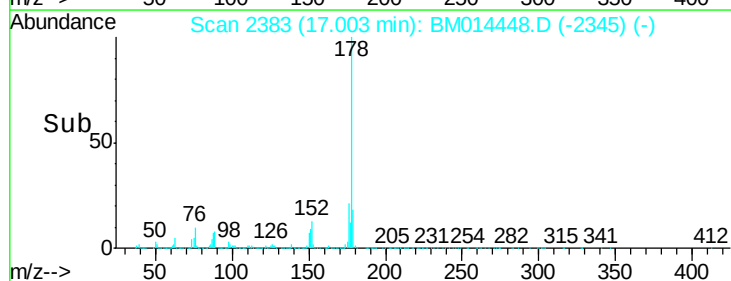
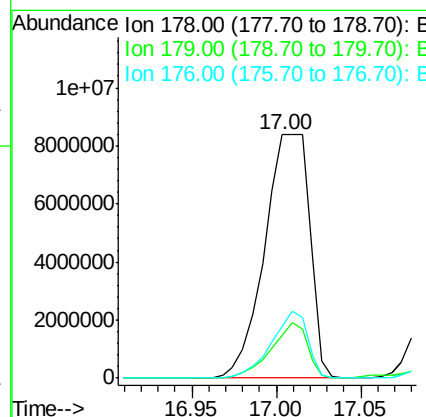
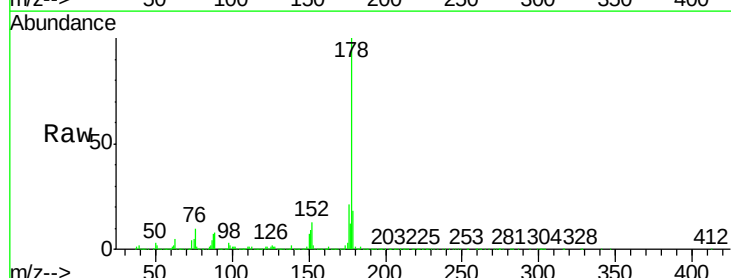
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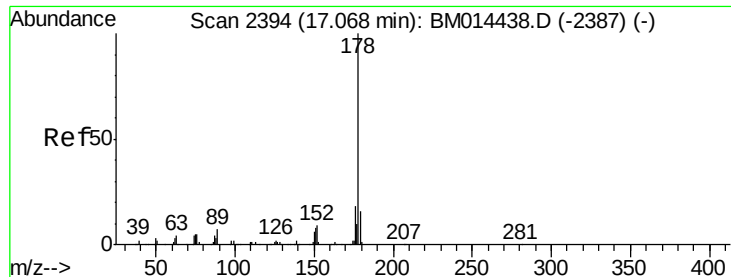
Sohil  
3/2/2018 3:32:11 PM



#69  
Phenanthrene  
Concen: 761.989 ng/ul  
RT: 17.00 min Scan# 2383  
Delta R.T. 0.02 min  
Lab File: BM014448.D  
Acq: 02 Mar 2018 00:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.6  | 12.6  | 19.0  |
| 176     | 21.2  | 14.9  | 22.3  |





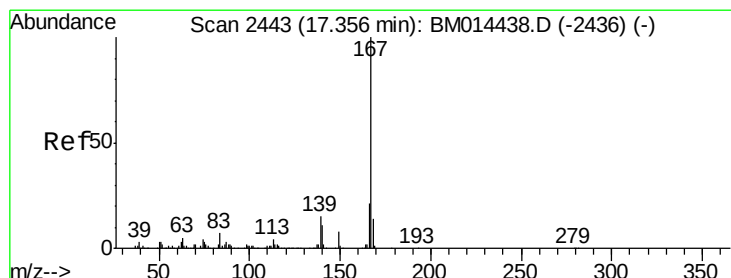
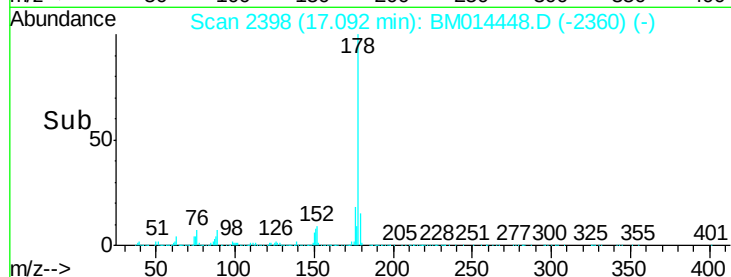
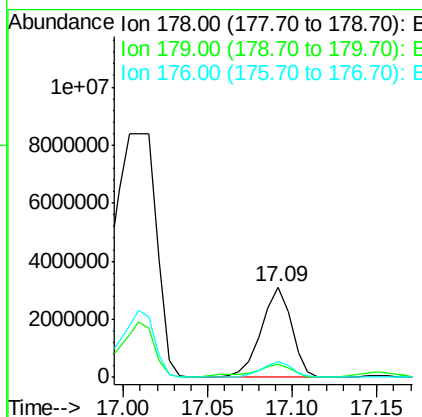
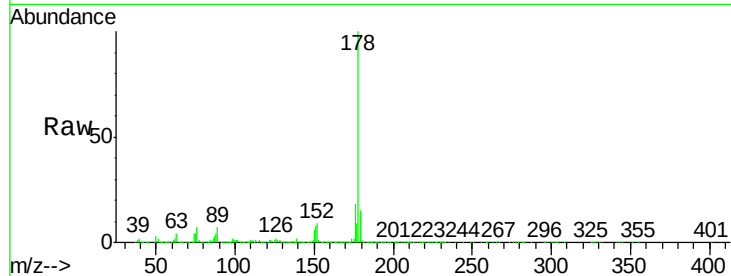
#71  
 Anthracene  
 Concen: 189.804 ng/ul  
 RT: 17.09 min Scan# 2398  
 Delta R.T. 0.02 min  
 Lab File: BM014448.D  
 Acq: 02 Mar 2018 00:23

Instrument :  
 BNA\_M  
 ClientSampled :  
 BE5Z4

Tot Ion:178 Resp: 3881050  
 Ion Ratio Lower Upper  
 178 100  
 179 15.2 11.7 17.5  
 176 17.7 14.6 21.8

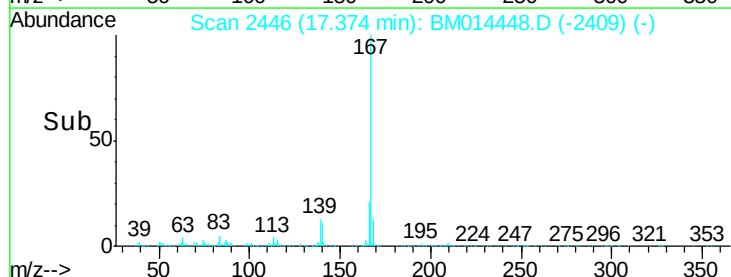
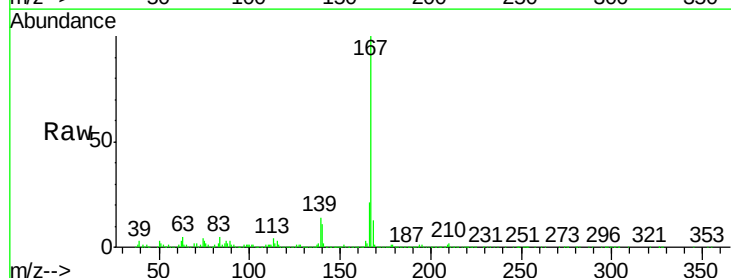
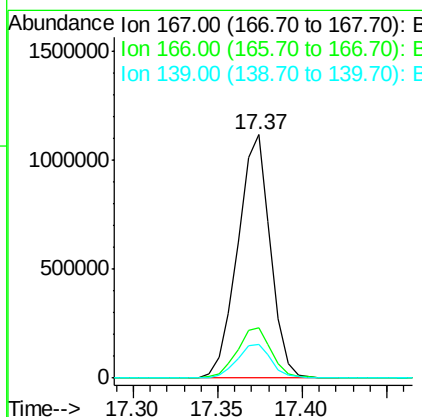
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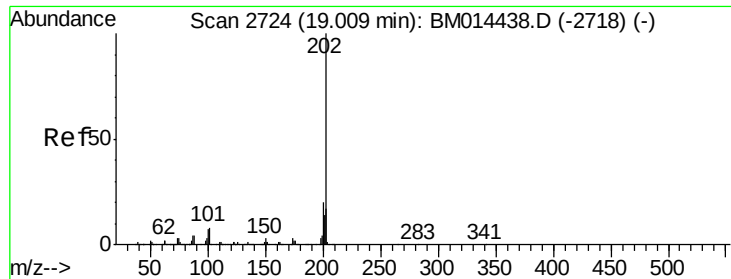
Sohil  
 3/2/2018 3:32:11 PM



#72  
 Carbazole  
 Concen: 87.094 ng/ul  
 RT: 17.37 min Scan# 2446  
 Delta R.T. 0.02 min  
 Lab File: BM014448.D  
 Acq: 02 Mar 2018 00:23

Tgt Ion:167 Resp: 1497463  
 Ion Ratio Lower Upper  
 167 100  
 166 20.9 17.1 25.7  
 139 13.7 10.0 15.0





#74

Fluoranthene

Concen: 955.005 ng/ul m

RT: 19.04 min Scan# 2729

Delta R.T. 0.03 min

Lab File: BM014448.D

Acq: 02 Mar 2018 00:23

Instrument :

BNA\_M

ClientSampled :

BE5Z4

Tot Ion:202 Resp:23198440

Ion Ratio Lower Upper

202 100

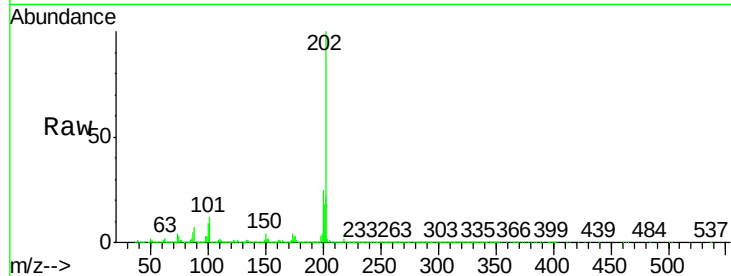
101 12.0 4.6 7.0#

100 9.2 3.4 5.2#

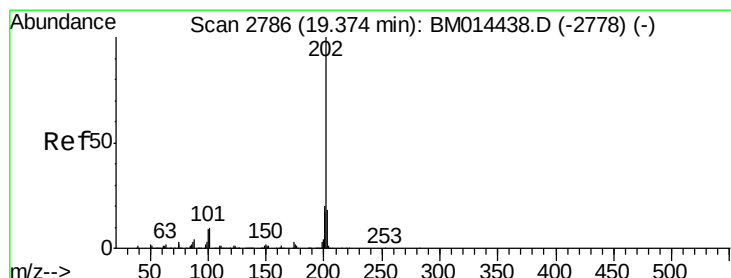
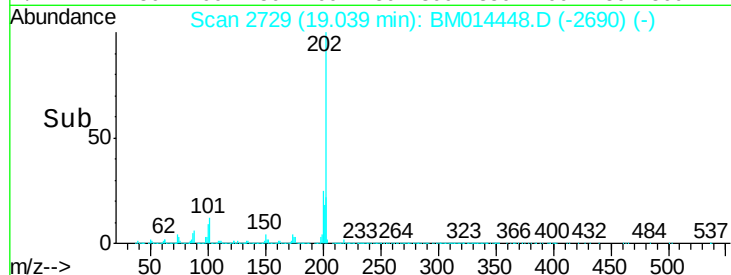
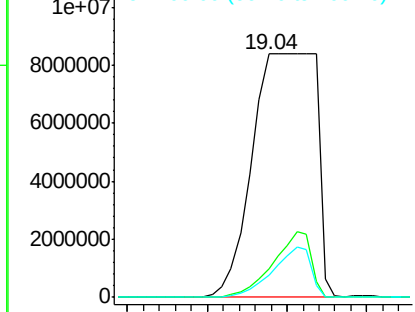
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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 432.639 ng/ul m

RT: 19.41 min Scan# 2792

Delta R.T. 0.04 min

Lab File: BM014448.D

Acq: 02 Mar 2018 00:23

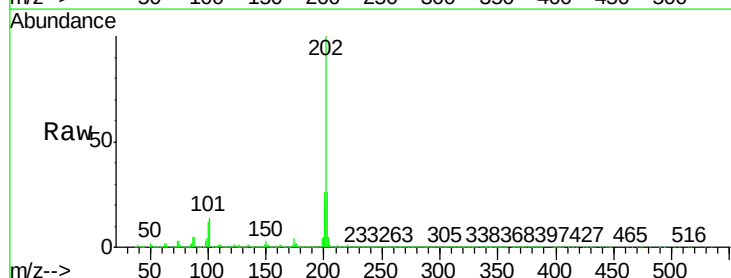
Tgt Ion:202 Resp:21890785

Ion Ratio Lower Upper

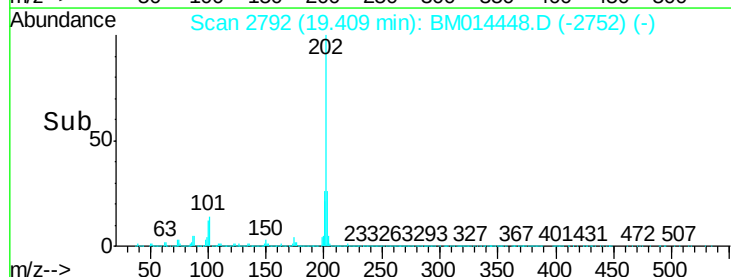
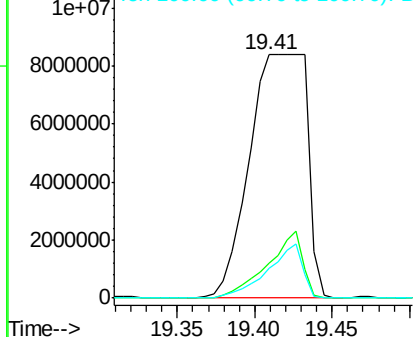
202 100

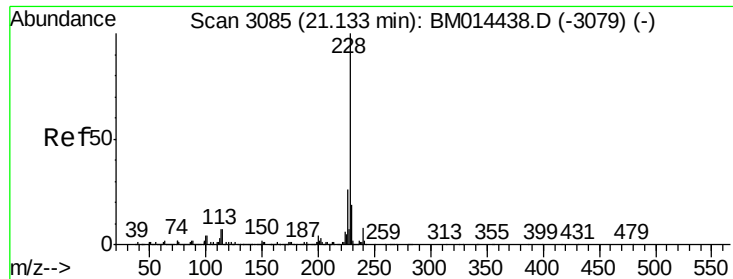
101 14.1 5.1 7.7#

100 12.0 4.9 7.3#



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B





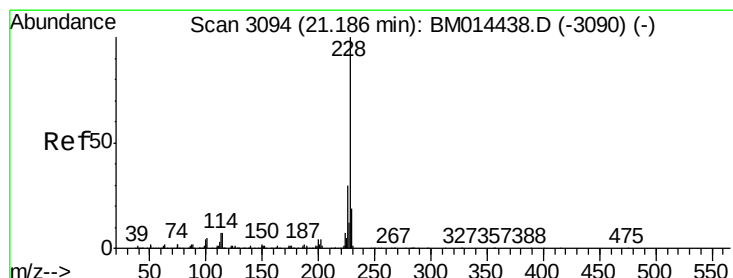
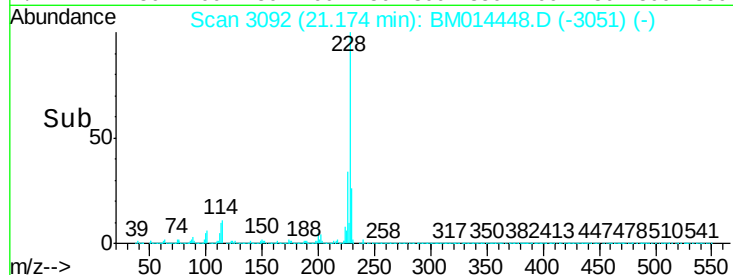
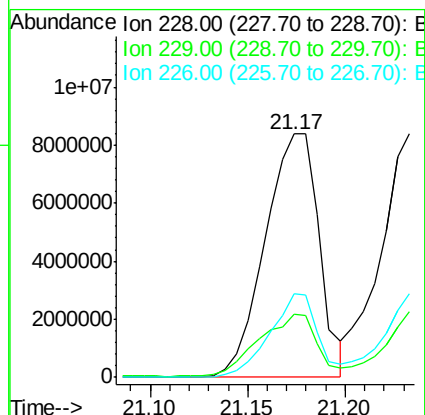
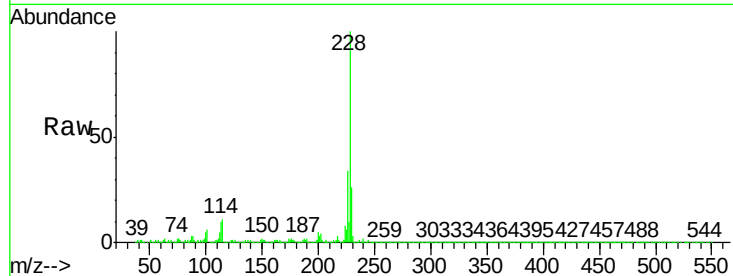
#80  
Benzo(a)anthracene  
Concen: 337.100 ng/ul  
RT: 21.17 min Scan# 3092  
Delta R.T. 0.04 min  
Lab File: BM014448.D  
Acq: 02 Mar 2018 00:23

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Z4

Tot Ion:228 Resp:16017900  
Ion Ratio Lower Upper  
228 100  
229 26.1 15.4 23.0#  
226 34.3 21.4 32.0#

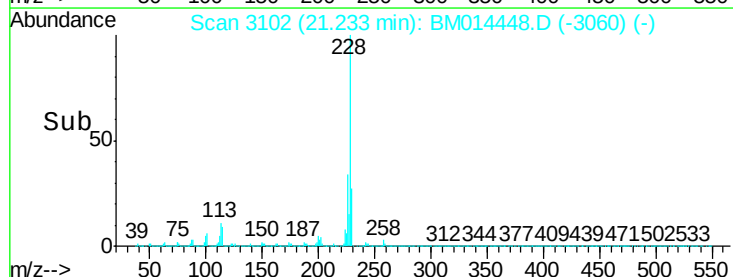
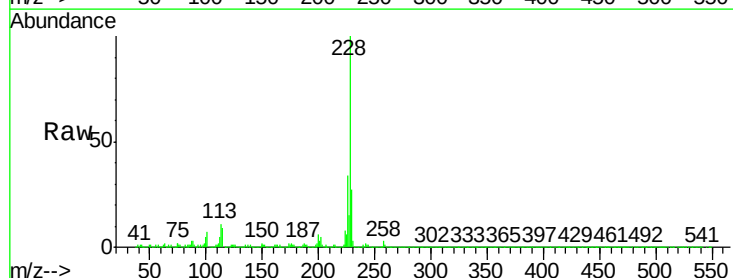
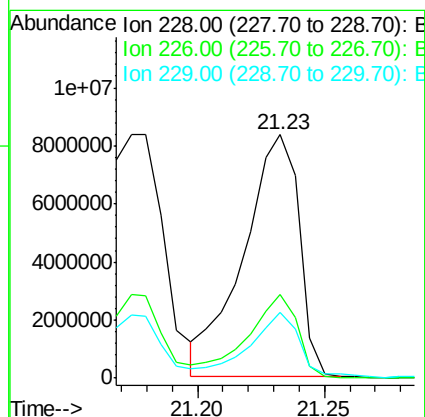
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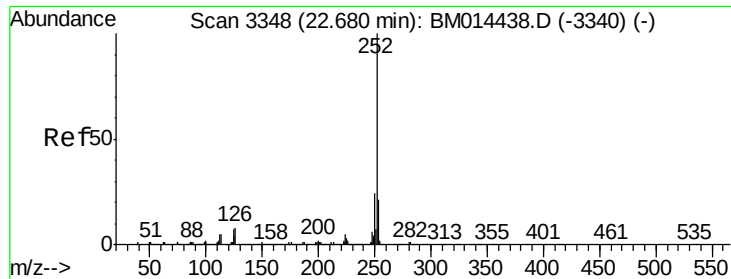
Sohil  
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#82  
Chrysene  
Concen: 288.440 ng/ul  
RT: 21.23 min Scan# 3102  
Delta R.T. 0.05 min  
Lab File: BM014448.D  
Acq: 02 Mar 2018 00:23

Tgt Ion:228 Resp:12785712  
Ion Ratio Lower Upper  
228 100  
226 34.4 23.4 35.2  
229 27.2 15.5 23.3#





#85

Benzo(b)fluoranthene

Concen: 454.610 ng/ul

RT: 22.75 min Scan# 3360

Delta R.T. 0.07 min

Lab File: BM014448.D

Acq: 02 Mar 2018 00:23

Instrument :

BNA\_M

ClientSampleId :

BE5Z4

Tot Ion:252 Resp:15662629

Ion Ratio Lower Upper

252 100

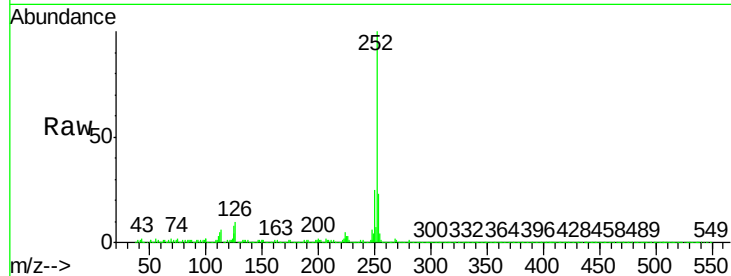
253 22.6 17.9 26.9

125 8.5 3.6 5.4#

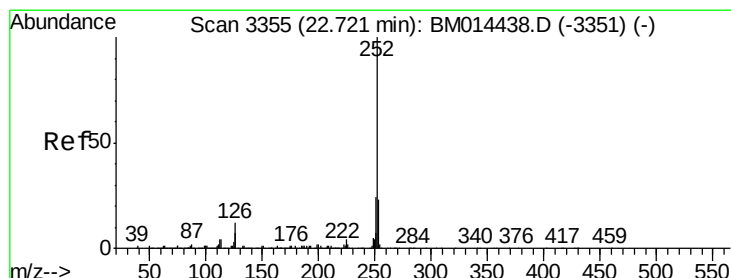
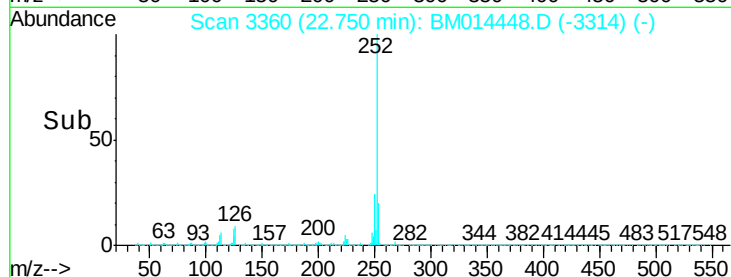
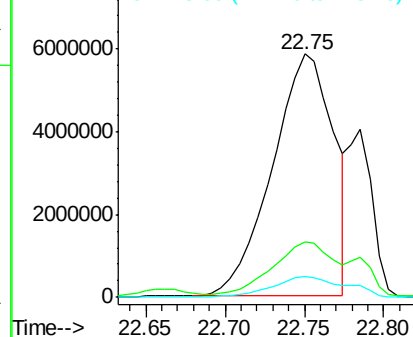
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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#86

Benzo(k)fluoranthene

Concen: 128.762 ng/ul m

RT: 22.79 min Scan# 3366

Delta R.T. 0.06 min

Lab File: BM014448.D

Acq: 02 Mar 2018 00:23

Tgt Ion:252 Resp: 4217787

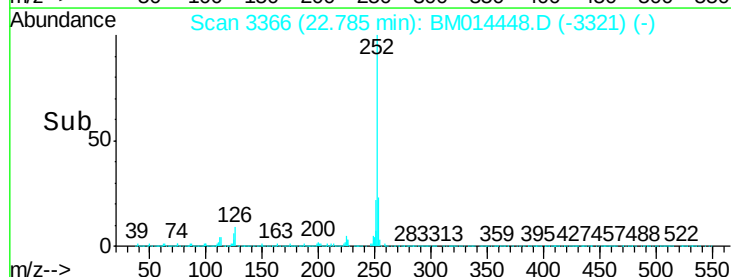
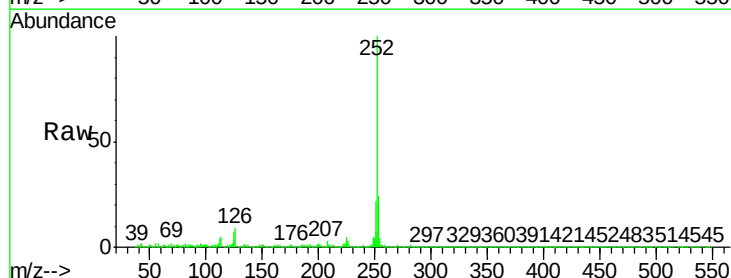
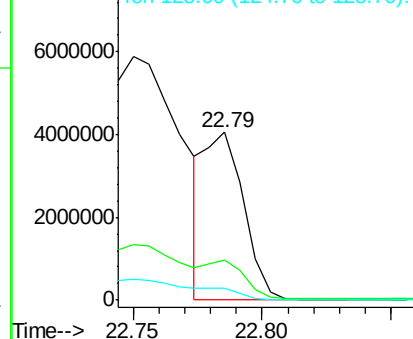
Ion Ratio Lower Upper

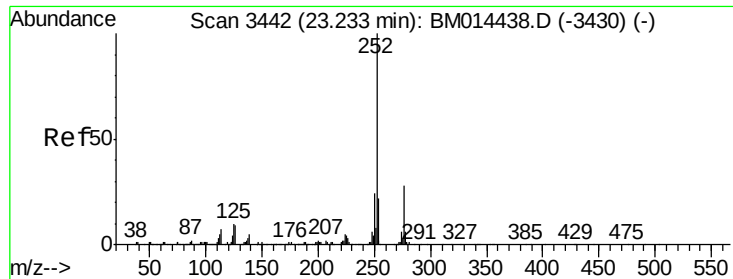
252 100

253 23.6 17.1 25.7

125 6.8 3.4 5.2#

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





#88

Benzo(a)pyrene

Concen: 354.976 ng/ul m

RT: 23.31 min Scan# 3456

Delta R.T. 0.08 min

Lab File: BM014448.D

Acq: 02 Mar 2018 00:23

Instrument :

BNA\_M

ClientSampled :

BE5Z4

Tot Ion:252 Resp:10928708

Ion Ratio Lower Upper

252 100

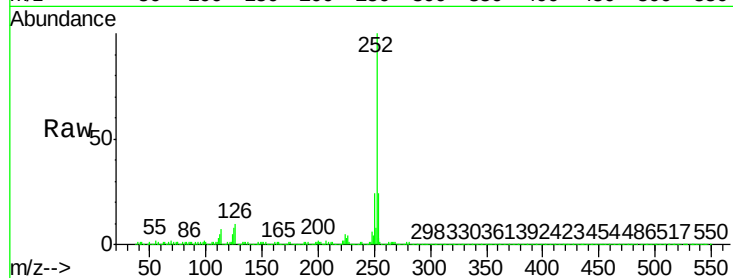
253 23.5 18.2 27.2

125 8.3 4.0 6.0#

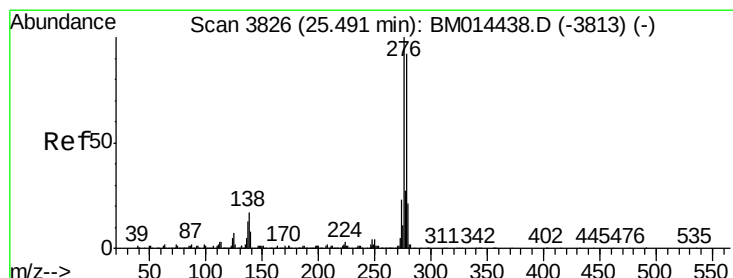
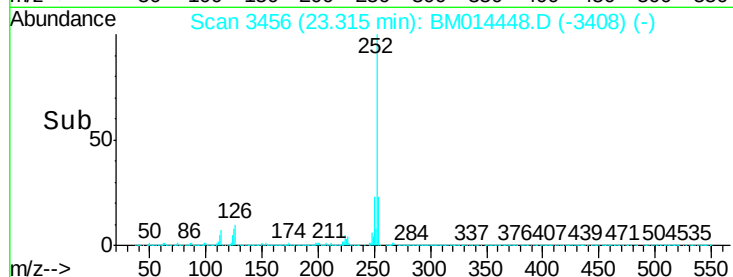
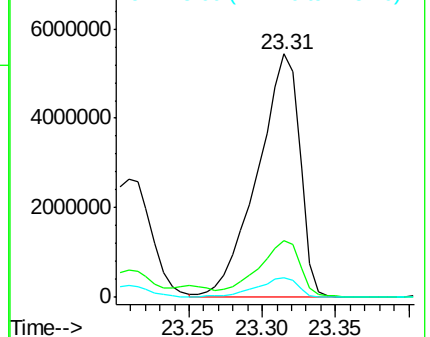
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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#89

Indeno(1,2,3-cd)pyrene

Concen: 199.244 ng/ul m

RT: 25.63 min Scan# 3849

Delta R.T. 0.14 min

Lab File: BM014448.D

Acq: 02 Mar 2018 00:23

Tgt Ion:276 Resp: 5952413

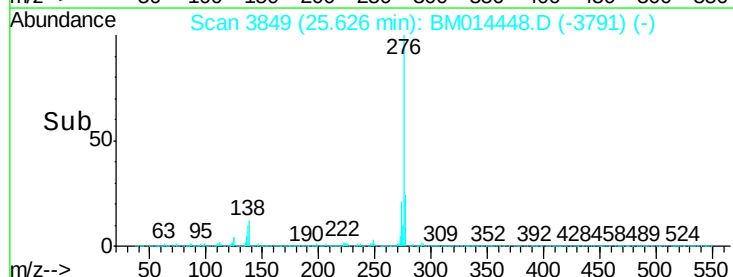
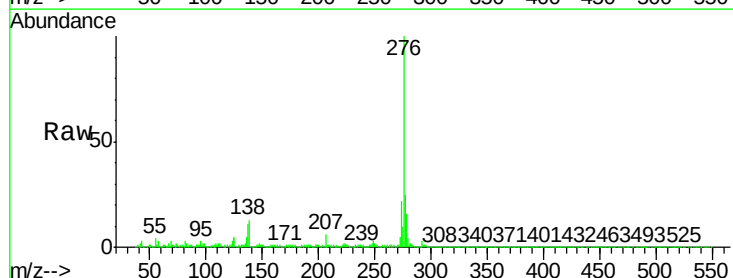
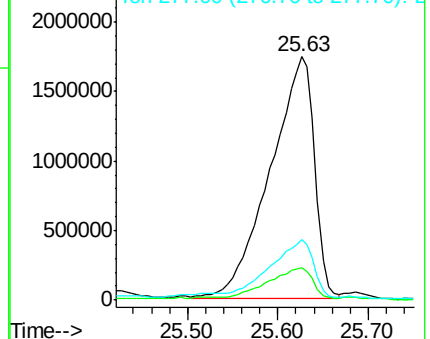
Ion Ratio Lower Upper

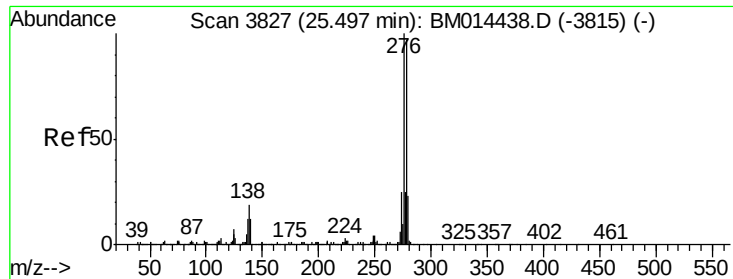
276 100

138 13.3 9.3 13.9

277 24.8 19.9 29.9

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





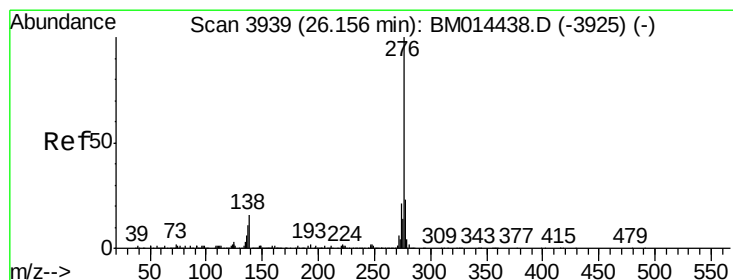
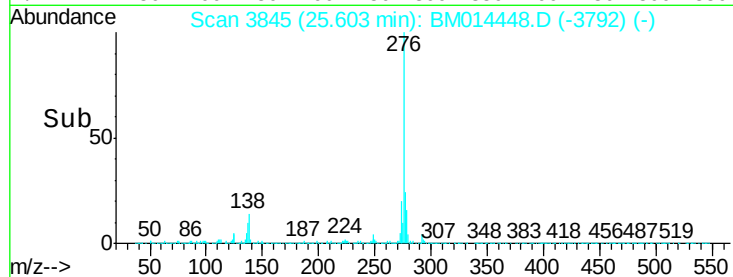
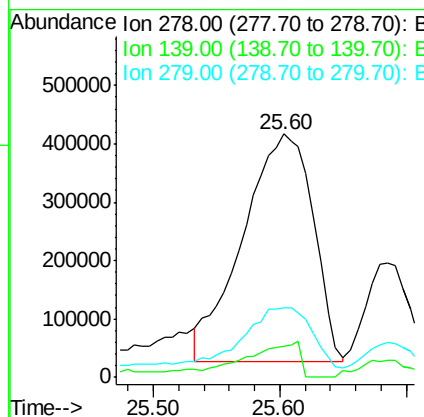
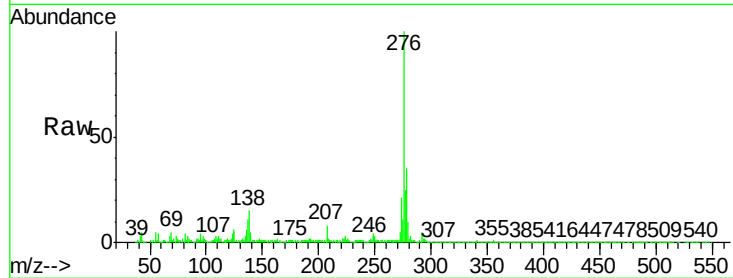
#90  
Dibenzo(a,h)anthracene  
Concen: 60.662 ng/ul m  
RT: 25.60 min Scan# 3845  
Delta R.T. 0.11 min  
Lab File: BM014448.D  
Acq: 02 Mar 2018 00:23

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Z4

Tot Ion:278 Resp: 1505880  
Ion Ratio Lower Upper  
278 100  
139 12.8 5.8 8.8#  
279 28.5 18.6 27.8#

Manual Integrations  
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#91  
Benzo(g,h,i)perylene  
Concen: 173.258 ng/ul m  
RT: 26.30 min Scan# 3963  
Delta R.T. 0.15 min  
Lab File: BM014448.D  
Acq: 02 Mar 2018 00:23

Tgt Ion:276 Resp: 4193117  
Ion Ratio Lower Upper  
276 100  
138 13.8 8.5 12.7#  
277 25.4 18.6 28.0

