

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM030218\  
 Data File : BM014457.D  
 Acq On : 02 Mar 2018 12:19  
 Operator : SJ/JU  
 Sample : J1646-21RE  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BE5Z9RE

Manual Integrations  
 APPROVED

Sohil  
 3/5/2018 3:20:57 PM

Quant Time: Mar 02 17:12:11 2018  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 02 14:54:45 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.51  | 152  | 92315    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.28 | 136  | 412174   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.17 | 164  | 267259   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.94 | 188  | 626735   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.16 | 240  | 574050   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.34 | 264  | 462802   | 20.00 | ng/ul | 0.02     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.09  | 96  | 7599   | 3.52  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.72  | 99  | 199358 | 25.55 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.86  | 67  | 120265 | 25.46 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.06  | 132 | 158134 | 26.43 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.25  | 113 | 143796 | 21.06 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.67  | 128 | 87666  | 28.78 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.39  | 143 | 95949  | 30.43 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.93  | 165 | 170234 | 26.07 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.45 | 131 | 101139 | 15.72 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.60 | 166 | 625912 | 28.36 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.86 | 160 | 794869 | 29.21 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.48 | 143 | 66440m | 21.80 | ng/ul | 0.05 |
| 57) Fluorene-d10               | 15.18 | 176 | 553862 | 28.01 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.35 | 200 | 32886  | 8.75  | ng/ul | 0.01 |
| 70) Anthracene-d10             | 17.04 | 188 | 885280 | 29.28 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.35 | 212 | 977300 | 33.01 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.21 | 264 | 658161 | 29.22 | ng/ul | 0.02 |

## Target Compounds

|                            |       |     |         |        | Ovalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 14) Acetophenone           | 8.35  | 105 | 25032   | 2.125  | ng/ul# | 92 |
| 44) Dimethylphthalate      | 13.64 | 163 | 133445  | 6.132  | ng/ul  | 99 |
| 47) Acenaphthylene         | 13.89 | 152 | 143402  | 5.575  | ng/ul# | 94 |
| 58) Fluorene               | 15.23 | 166 | 30768   | 1.312  | ng/ul  | 99 |
| 60) 4-Nitroaniline         | 15.30 | 138 | 266815  | 67.888 | ng/ul# | 74 |
| 69) Phenanthrene           | 16.98 | 178 | 751118  | 20.801 | ng/ul  | 99 |
| 71) Anthracene             | 17.07 | 178 | 212005  | 5.838  | ng/ul  | 99 |
| 72) Carbazole              | 17.36 | 167 | 67593   | 2.214  | ng/ul  | 98 |
| 74) Fluoranthene           | 19.02 | 202 | 2122847 | 49.206 | ng/ul# | 94 |
| 77) Pyrene                 | 19.38 | 202 | 1972512 | 51.704 | ng/ul# | 91 |
| 80) Benzo(a)anthracene     | 21.14 | 228 | 931790  | 26.008 | ng/ul  | 95 |
| 82) Chrysene               | 21.20 | 228 | 851605  | 25.481 | ng/ul  | 96 |
| 85) Benzo(b)fluoranthene   | 22.70 | 252 | 1105161 | 35.664 | ng/ul# | 96 |
| 86) Benzo(k)fluoranthene   | 22.73 | 252 | 294848m | 10.008 | ng/ul  |    |
| 88) Benzo(a)pyrene         | 23.25 | 252 | 750100  | 27.088 | ng/ul# | 97 |
| 89) Indeno(1,2,3-cd)pyrene | 25.53 | 276 | 537891  | 20.018 | ng/ul  | 98 |
| 90) Dibenzo(a,h)anthracene | 25.53 | 278 | 141902  | 6.355  | ng/ul# | 67 |
| 91) Benzo(g,h,i)perylene   | 26.20 | 276 | 479510  | 22.028 | ng/ul# | 95 |

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

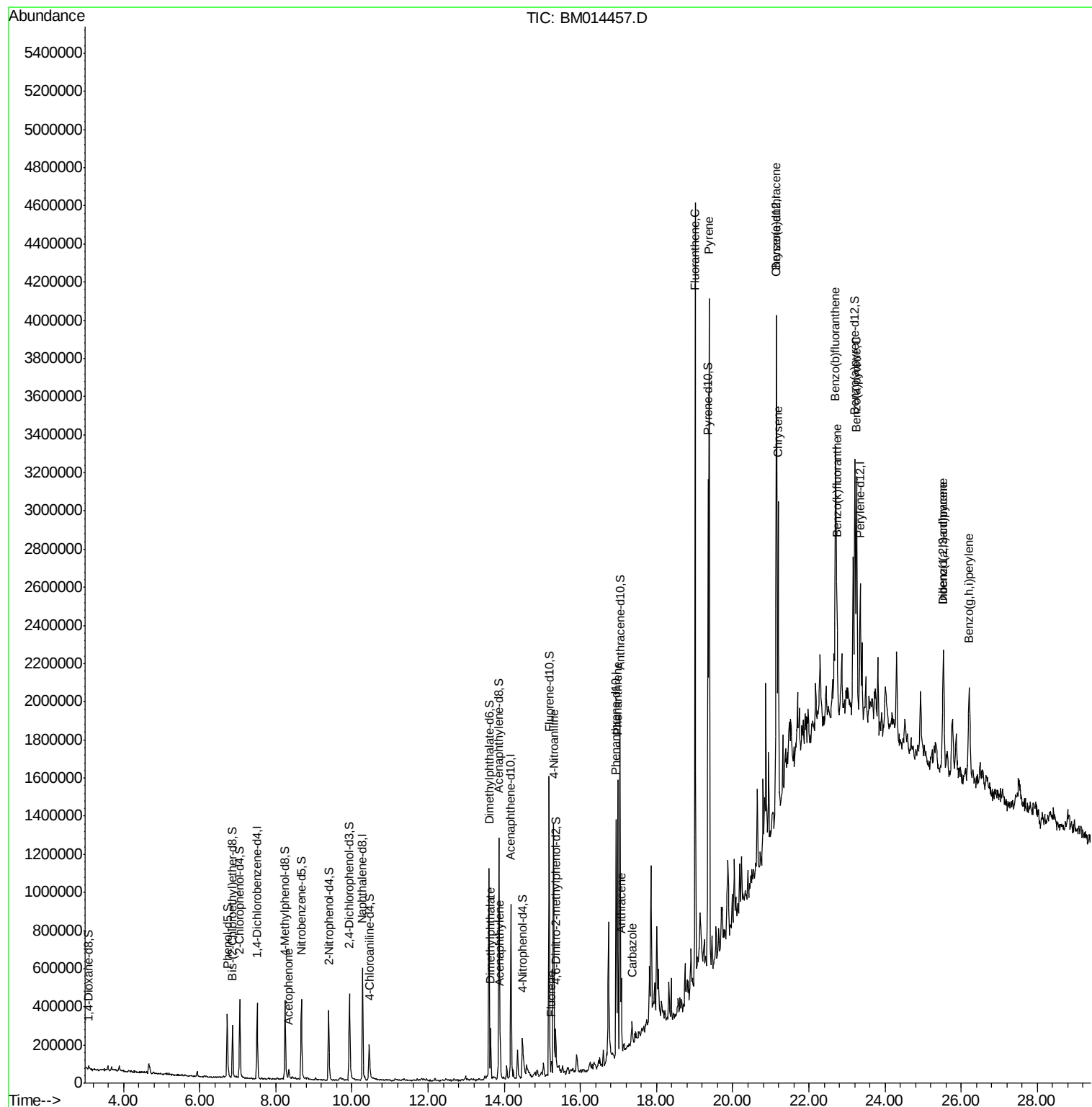
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM030218\  
Data File : BM014457.D  
Acq On : 02 Mar 2018 12:19  
Operator : SJ/JU  
Sample : J1646-21RE  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

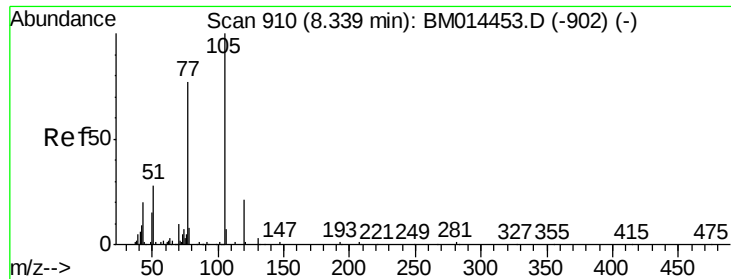
Instrument :  
BNA\_M  
ClientSampleId :  
BE5Z9RE

Manual Integrations  
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3/5/2018 3:20:57 PM

Quant Time: Mar 02 17:12:11 2018  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Mar 02 14:54:45 2018  
Response via : Initial Calibration





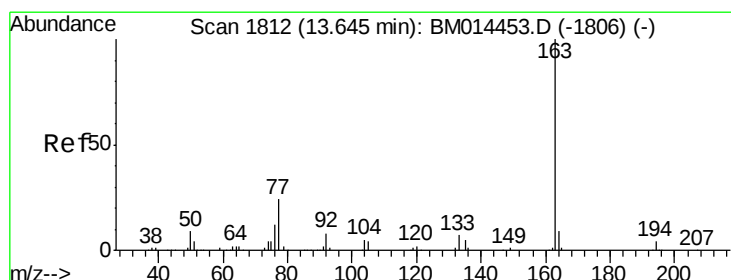
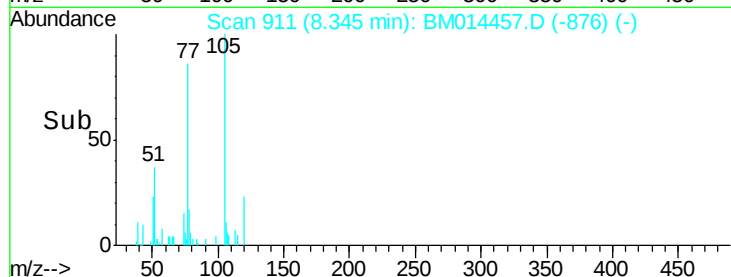
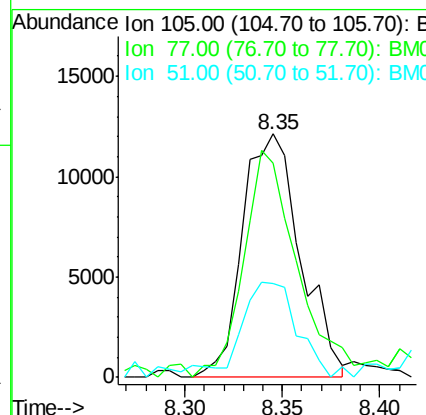
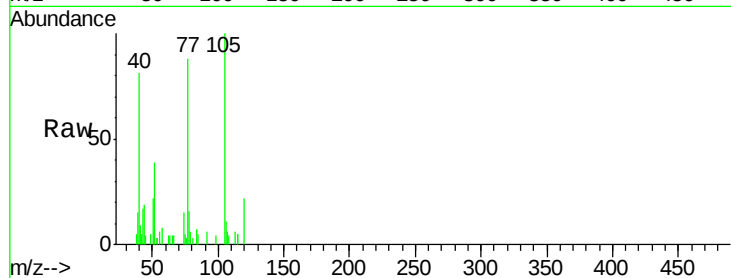
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Acetophenone  
Concen: 2.125 ng/ul  
RT: 8.35 min Scan# 911  
Delta R.T. 0.01 min  
Lab File: BM014457.D  
Acq: 02 Mar 2018 12:19

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Z9RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 77      | 88.1  | 74.2  | 111.4 |
| 51      | 38.7  | 23.4  | 35.2  |

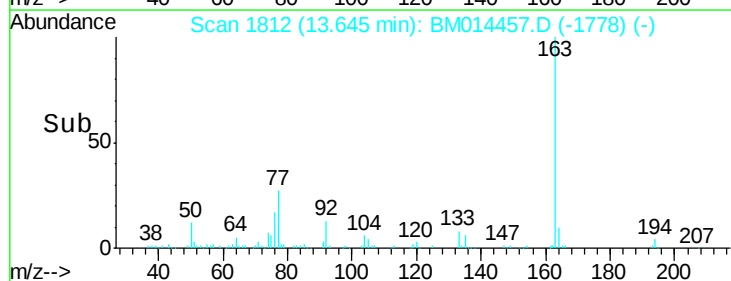
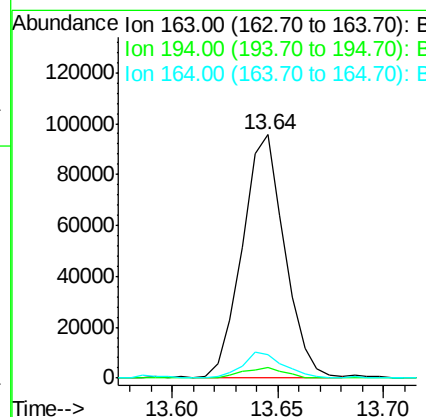
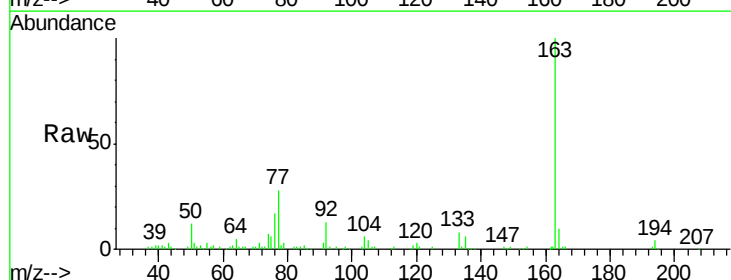
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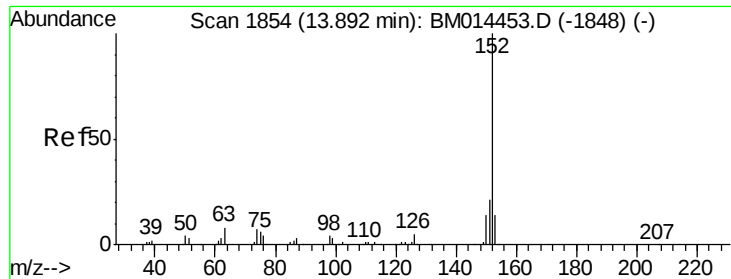
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#44  
Dimethylphthalate  
Concen: 6.132 ng/ul  
RT: 13.64 min Scan# 1812  
Delta R.T. 0.00 min  
Lab File: BM014457.D  
Acq: 02 Mar 2018 12:19

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





#47

Acenaphthylene

Concen: 5.575 ng/ul

RT: 13.89 min Scan# 1854

Delta R.T. 0.00 min

Lab File: BM014457.D

Acq: 02 Mar 2018 12:19

Instrument :

BNA\_M

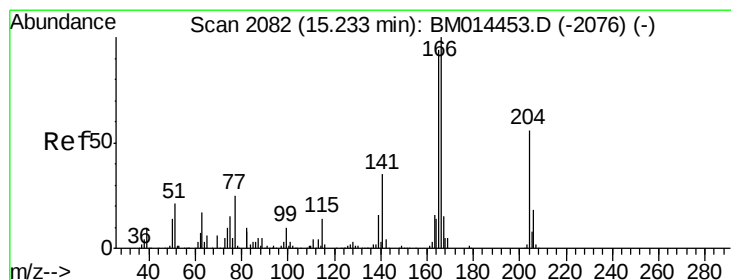
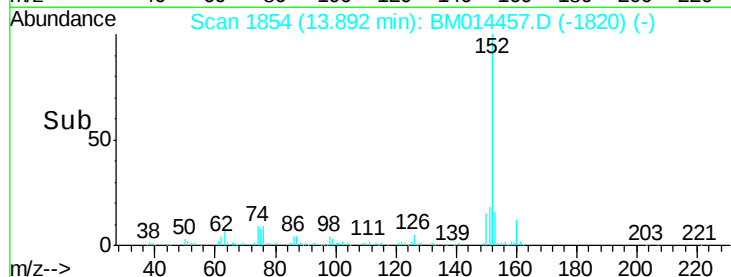
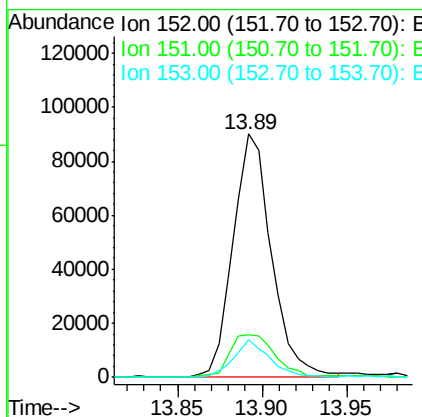
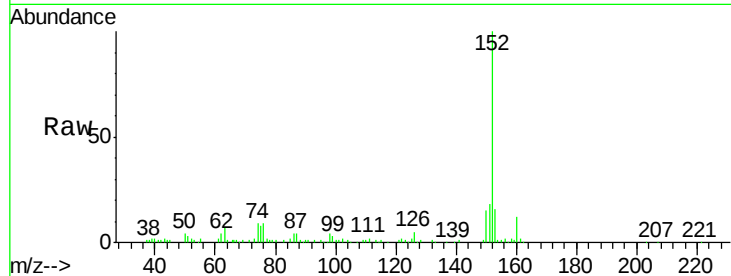
ClientSampleId :

BE5Z9RE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 143402 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 17.6  | 16.3  | 24.5   |
| 153       | 15.5  | 10.2  | 15.4   |

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#58

Fluorene

Concen: 1.312 ng/ul

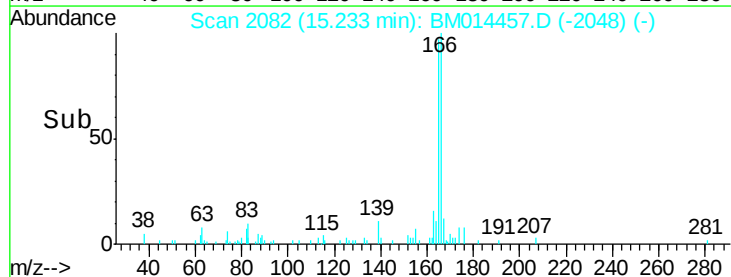
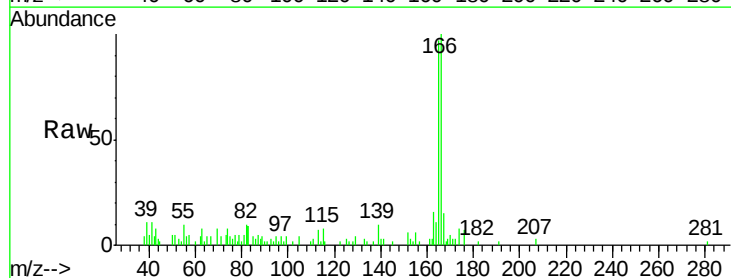
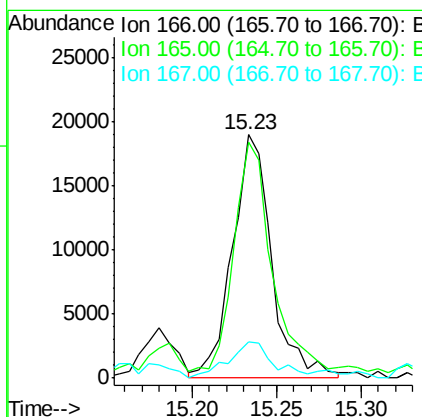
RT: 15.23 min Scan# 2082

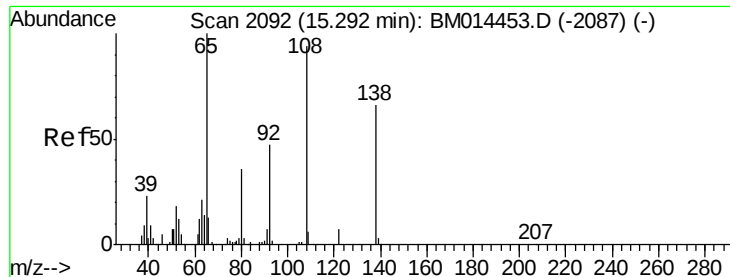
Delta R.T. 0.00 min

Lab File: BM014457.D

Acq: 02 Mar 2018 12:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 30768 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 96.7  | 77.9  | 116.9 |
| 167       | 14.7  | 10.6  | 16.0  |





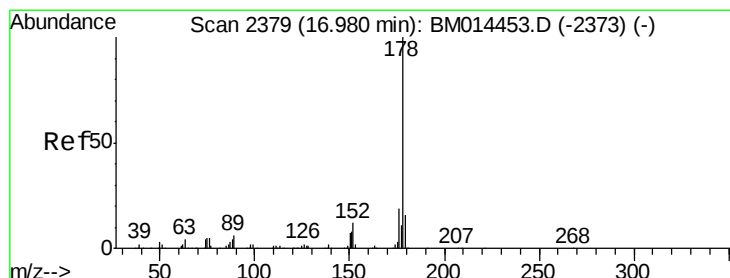
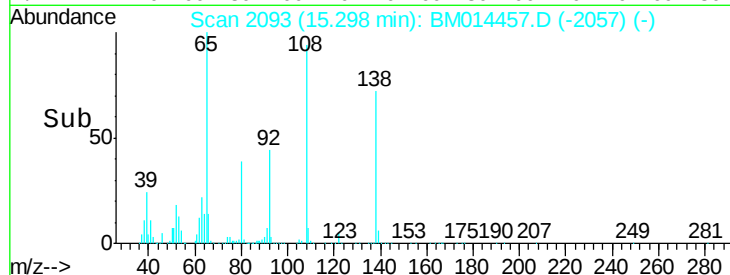
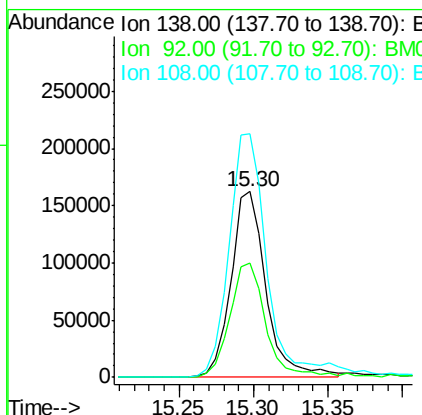
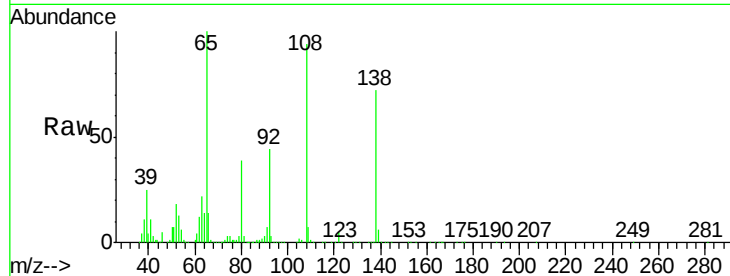
#60  
4-Nitroaniline  
Concen: 67.888 ng/ul  
RT: 15.30 min Scan# 2093  
Delta R.T. 0.01 min  
Lab File: BM014457.D  
Acq: 02 Mar 2018 12:19

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Z9RE

Tot Ion:138 Resp: 266815  
Ion Ratio Lower Upper  
138 100  
92 61.7 40.0 60.0#  
108 131.2 80.0 120.0#

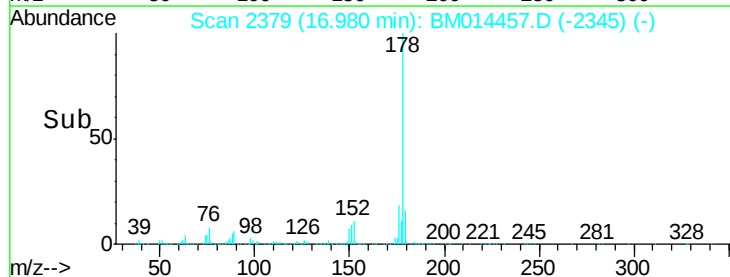
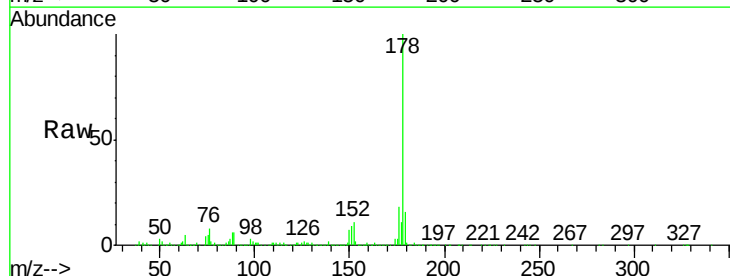
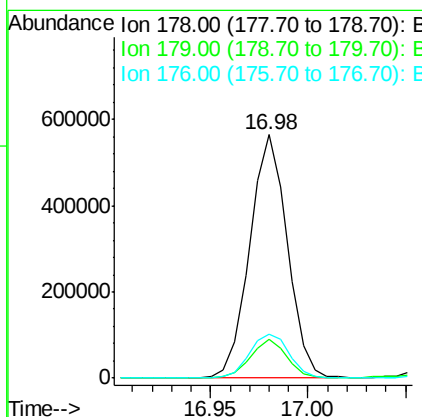
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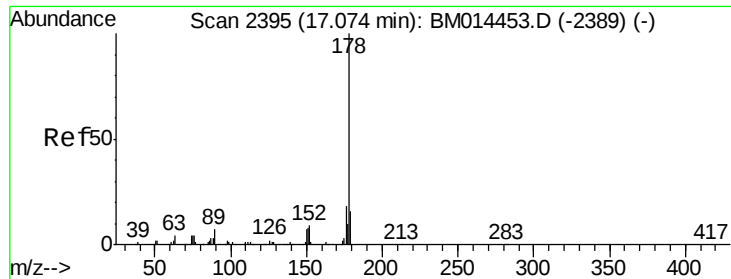
Sohil  
3/5/2018 3:20:57 PM



#69  
Phenanthrene  
Concen: 20.801 ng/ul  
RT: 16.98 min Scan# 2379  
Delta R.T. 0.00 min  
Lab File: BM014457.D  
Acq: 02 Mar 2018 12:19

Tgt Ion:178 Resp: 751118  
Ion Ratio Lower Upper  
178 100  
179 15.9 12.6 19.0  
176 18.1 14.9 22.3





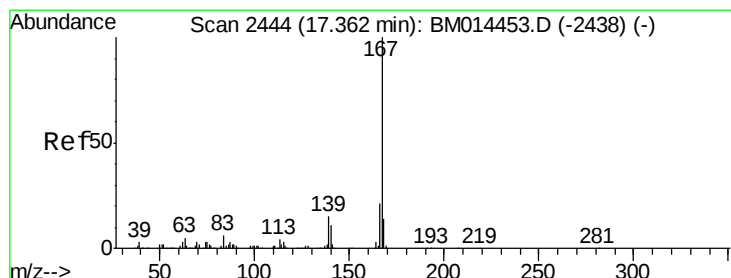
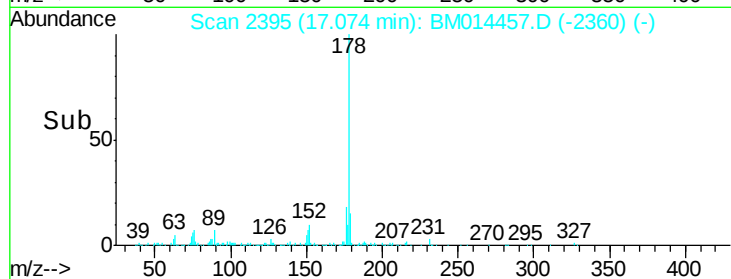
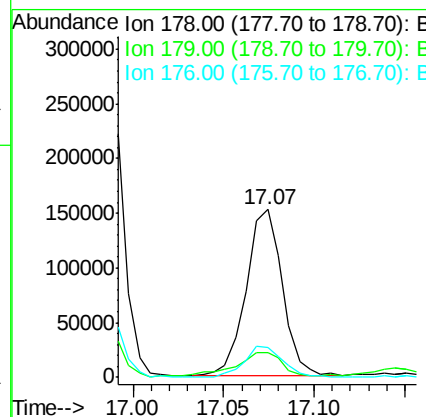
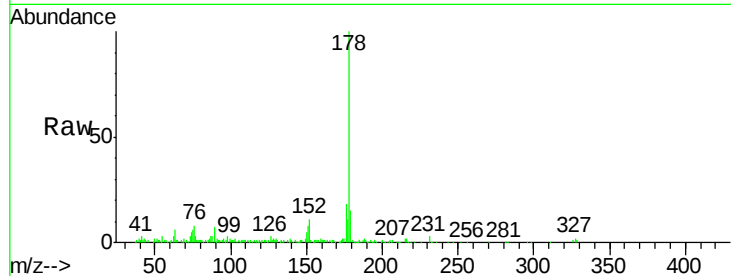
#71  
 Anthracene  
 Concen: 5.838 ng/ul  
 RT: 17.07 min Scan# 2395  
 Delta R.T. 0.01 min  
 Lab File: BM014457.D  
 Acq: 02 Mar 2018 12:19

Instrument :  
 BNA\_M  
 ClientSampled :  
 BE5Z9RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.1  | 11.7  | 17.5  |
| 176     | 18.2  | 14.6  | 21.8  |

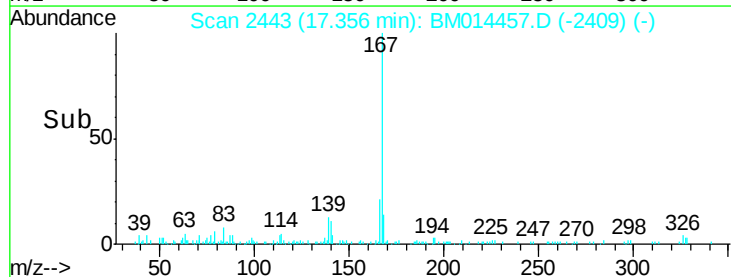
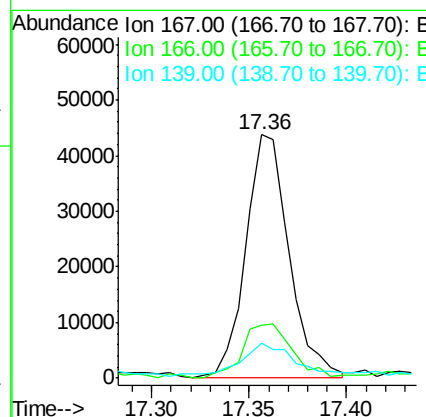
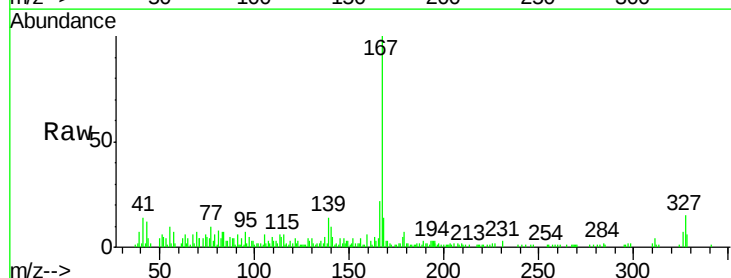
Manual Integrations  
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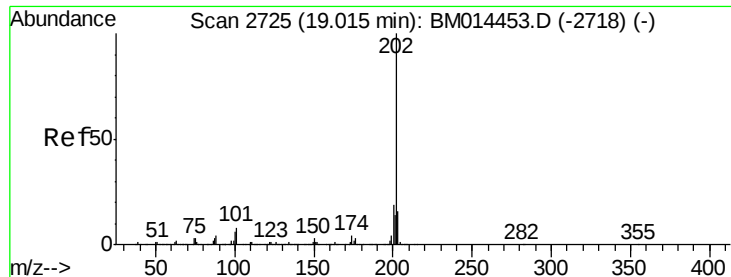
Sohil  
 3/5/2018 3:20:57 PM



#72  
 Carbazole  
 Concen: 2.214 ng/ul  
 RT: 17.36 min Scan# 2443  
 Delta R.T. 0.00 min  
 Lab File: BM014457.D  
 Acq: 02 Mar 2018 12:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.9  | 17.1  | 25.7  |
| 139     | 14.4  | 10.0  | 15.0  |





#74

Fluoranthene

Concen: 49.206 ng/ul

RT: 19.02 min Scan# 2725

Delta R.T. 0.01 min

Lab File: BM014457.D

Acq: 02 Mar 2018 12:19

Instrument :

BNA\_M

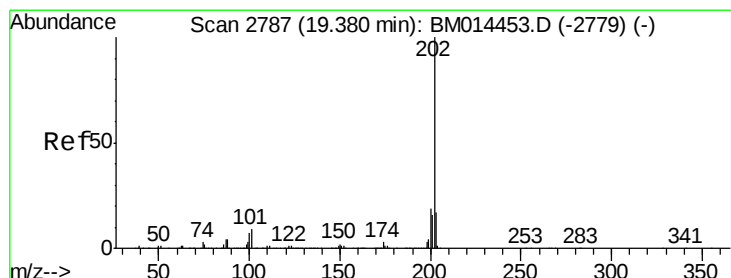
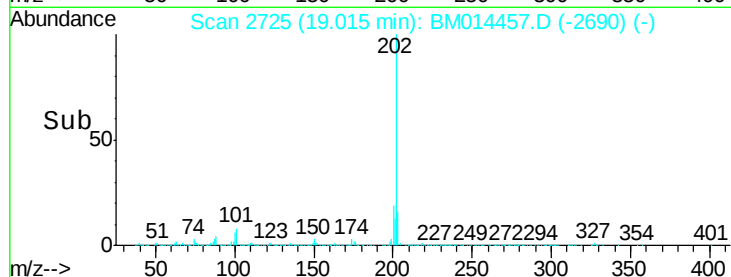
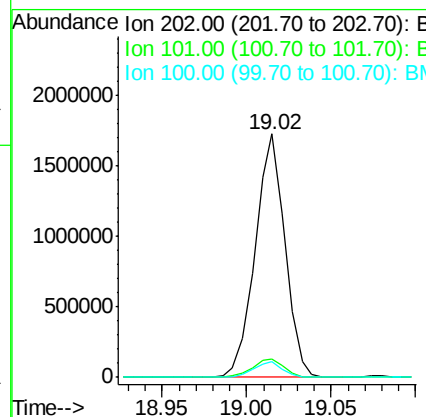
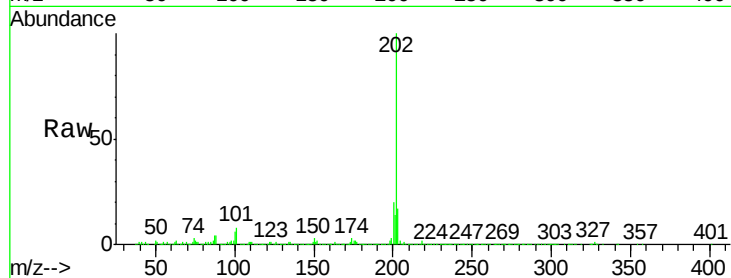
ClientSampleId :

BE5Z9RE

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 2122847 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 7.7   | 4.6   | 7.0#    |
| 100       | 6.4   | 3.4   | 5.2#    |

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#77

Pyrene

Concen: 51.704 ng/ul

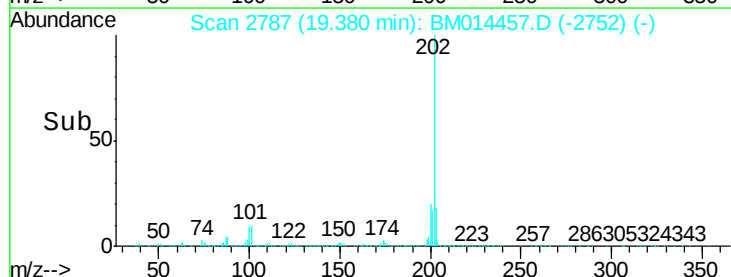
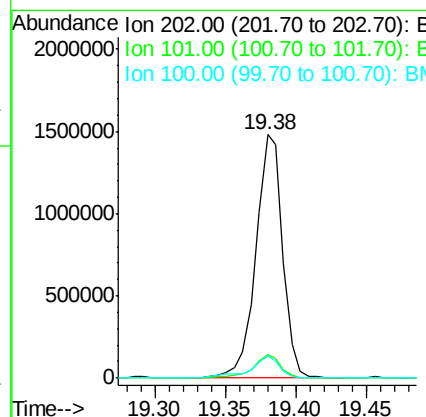
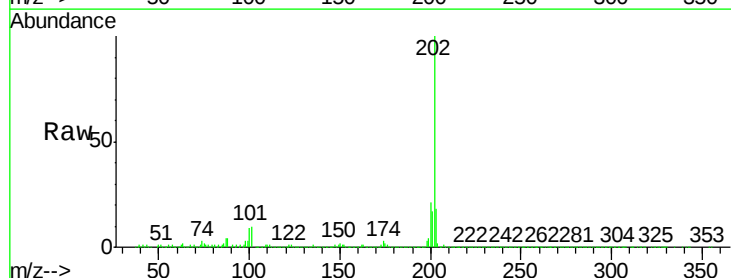
RT: 19.38 min Scan# 2787

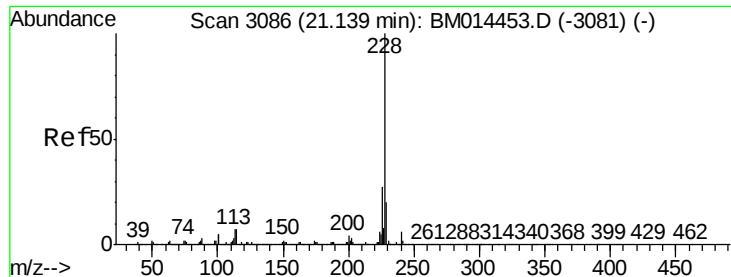
Delta R.T. 0.01 min

Lab File: BM014457.D

Acq: 02 Mar 2018 12:19

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1972512 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 9.6   | 5.1   | 7.7#    |
| 100       | 8.8   | 4.9   | 7.3#    |





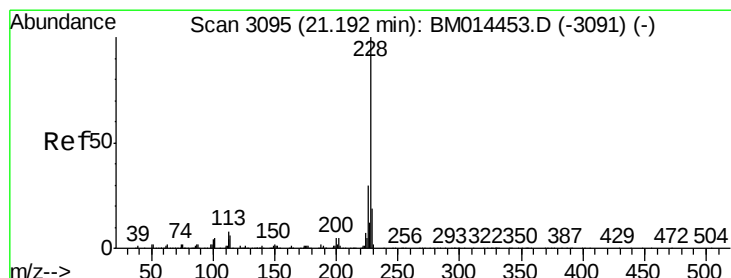
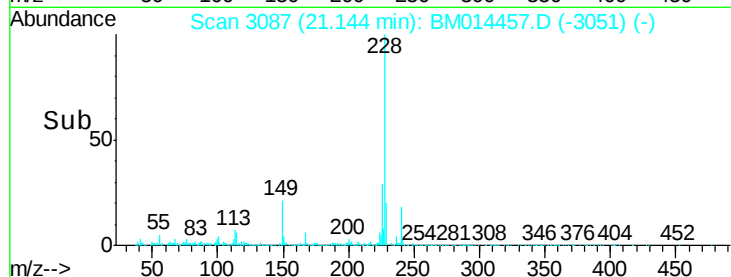
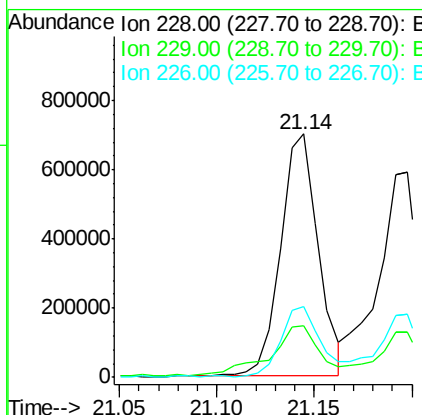
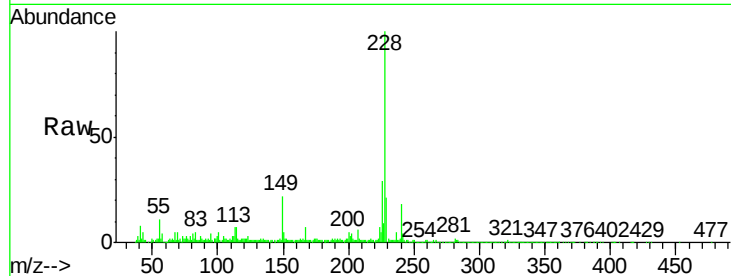
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Benzo(a)anthracene  
Concen: 26.008 ng/ul  
RT: 21.14 min Scan# 3087  
Delta R.T. 0.01 min  
Lab File: BM014457.D  
Acq: 02 Mar 2018 12:19

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Z9RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.3  | 15.4  | 23.0  |
| 226     | 29.2  | 21.4  | 32.0  |

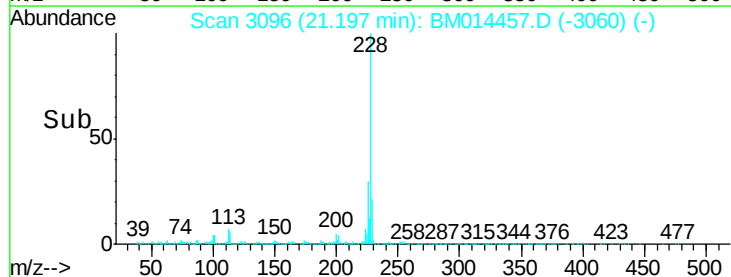
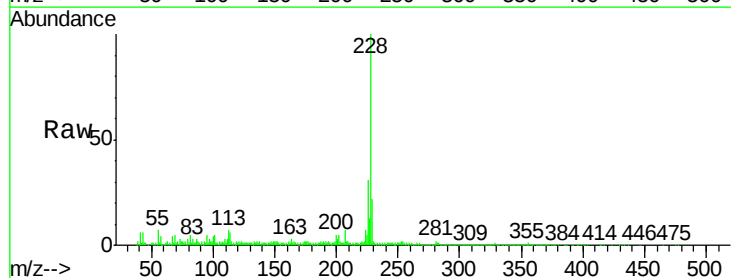
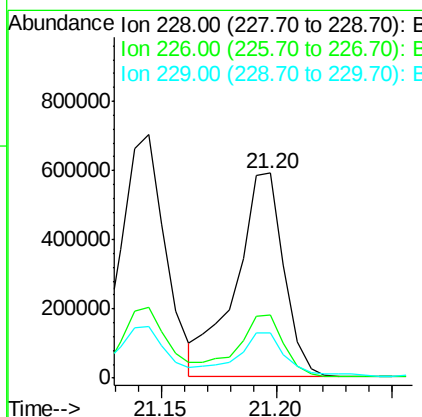
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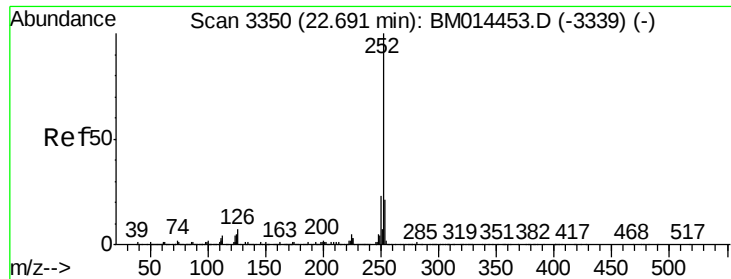
Sohil  
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#82  
Chrysene  
Concen: 25.481 ng/ul  
RT: 21.20 min Scan# 3096  
Delta R.T. 0.01 min  
Lab File: BM014457.D  
Acq: 02 Mar 2018 12:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.8  | 23.4  | 35.2  |
| 229     | 22.4  | 15.5  | 23.3  |





#85

Benzo(b)fluoranthene

Concen: 35.664 ng/ul

RT: 22.70 min Scan# 3351

Delta R.T. 0.02 min

Lab File: BM014457.D

Acq: 02 Mar 2018 12:19

Instrument :

BNA\_M

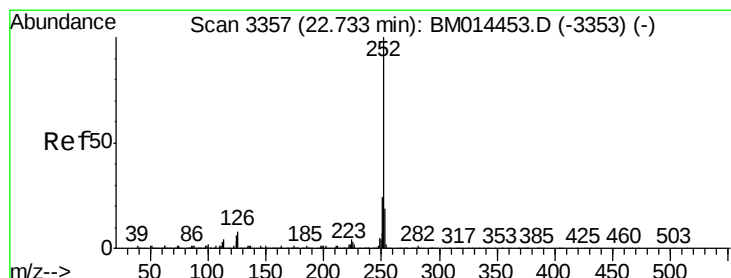
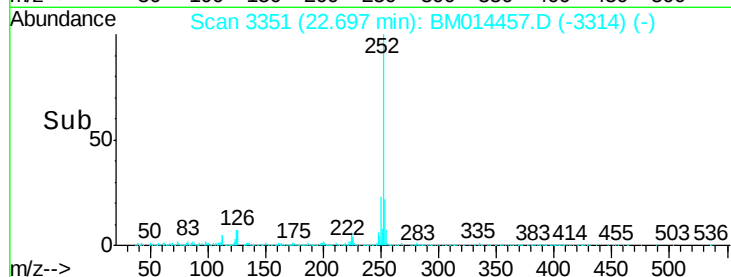
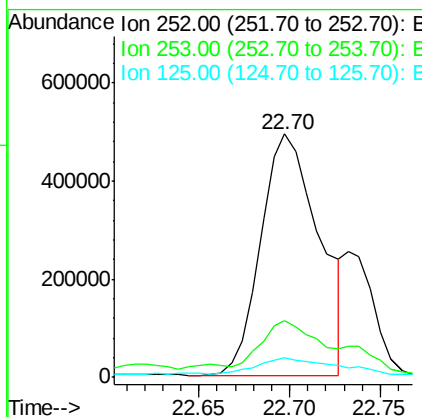
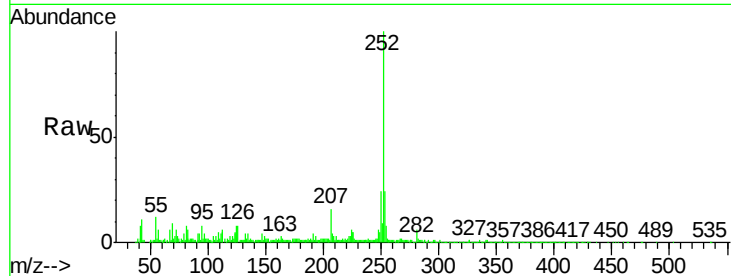
ClientSampleId :

BE5Z9RE

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 252   | Resp: | 1105161 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 23.5  | 17.9  | 26.9    |
| 125       | 8.1   | 3.6   | 5.4#    |

Manual Integrations  
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#86

Benzo(k)fluoranthene

Concen: 10.008 ng/ul m

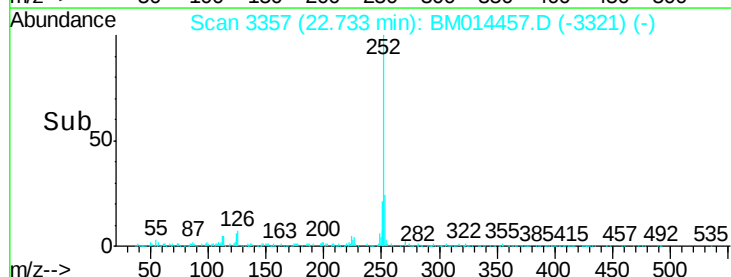
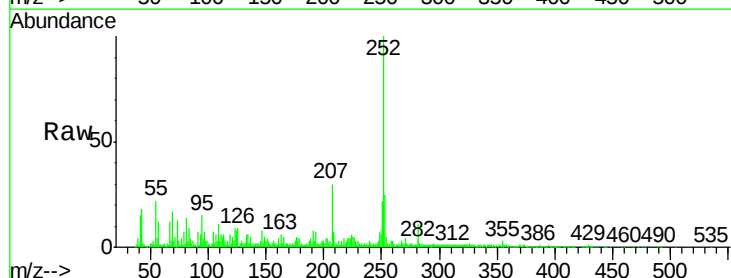
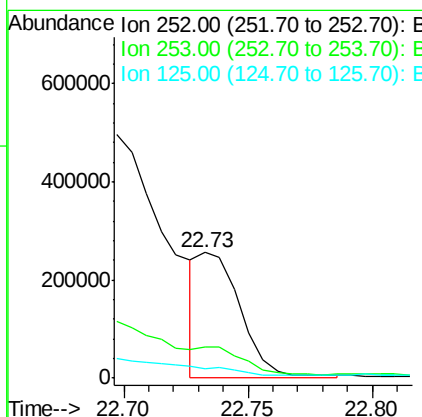
RT: 22.73 min Scan# 3357

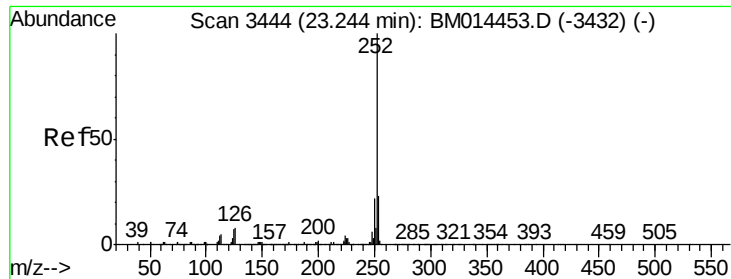
Delta R.T. 0.01 min

Lab File: BM014457.D

Acq: 02 Mar 2018 12:19

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 294848 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 25.2  | 17.1  | 25.7   |
| 125       | 8.0   | 3.4   | 5.2#   |





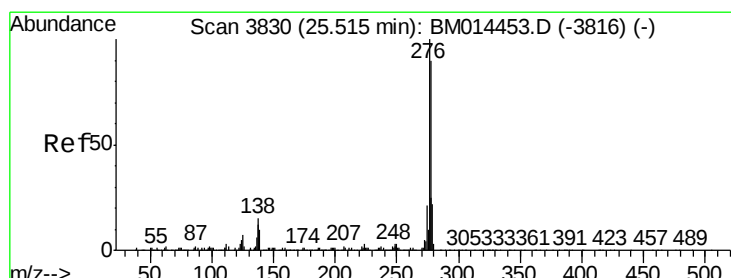
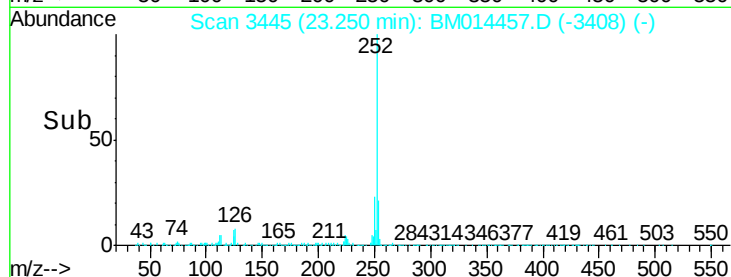
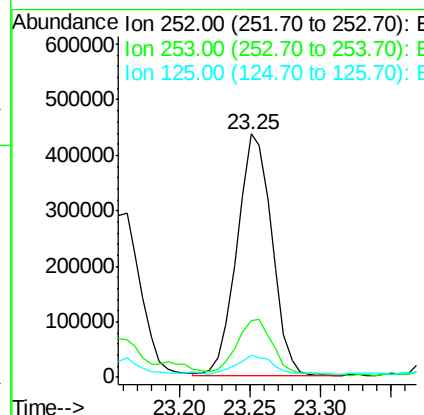
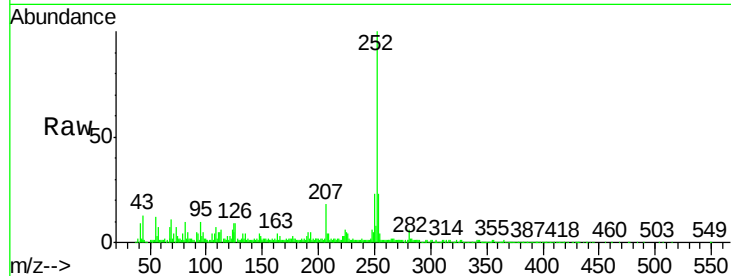
#88  
Benzo(a)pyrene  
Concen: 27.088 ng/ul  
RT: 23.25 min Scan# 3445  
Delta R.T. 0.02 min  
Lab File: BM014457.D  
Acq: 02 Mar 2018 12:19

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Z9RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 18.2  | 27.2  |
| 125     | 8.9   | 4.0   | 6.0   |

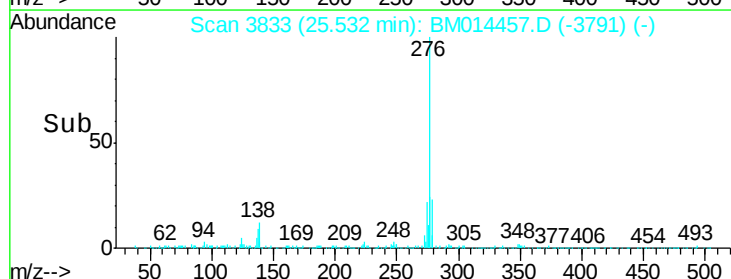
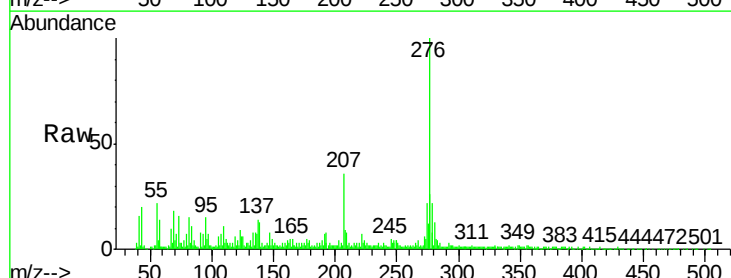
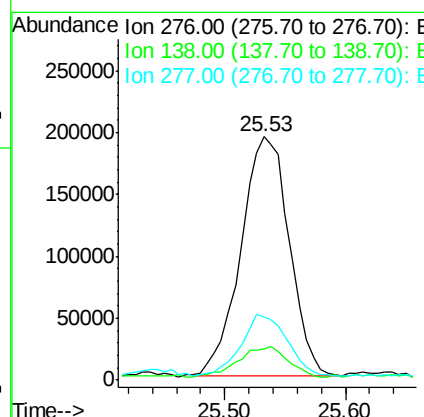
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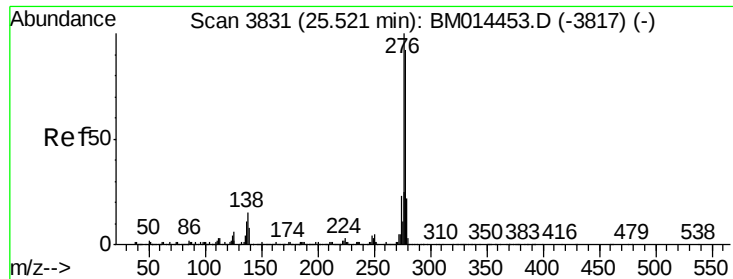
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#89  
Indeno(1,2,3-cd)pyrene  
Concen: 20.018 ng/ul  
RT: 25.53 min Scan# 3833  
Delta R.T. 0.05 min  
Lab File: BM014457.D  
Acq: 02 Mar 2018 12:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 13.1  | 9.3   | 13.9  |
| 277     | 25.8  | 19.9  | 29.9  |





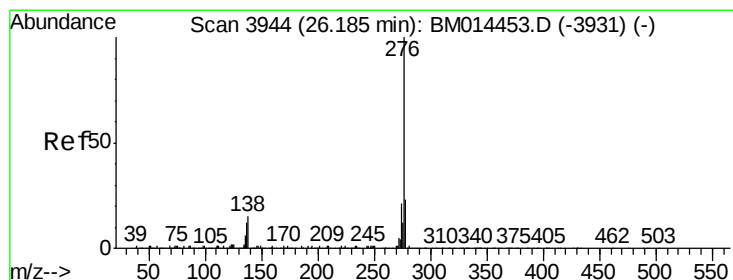
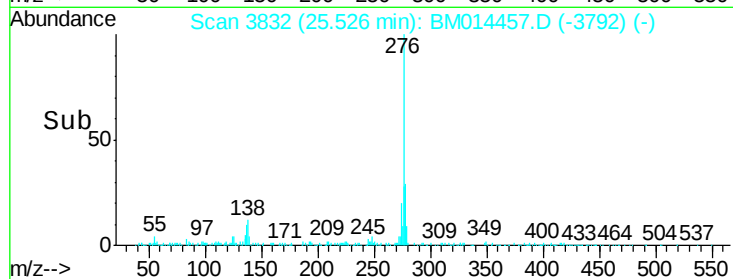
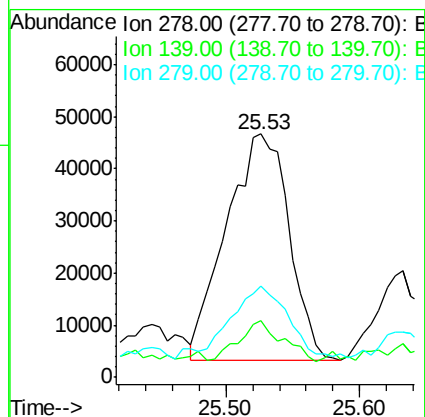
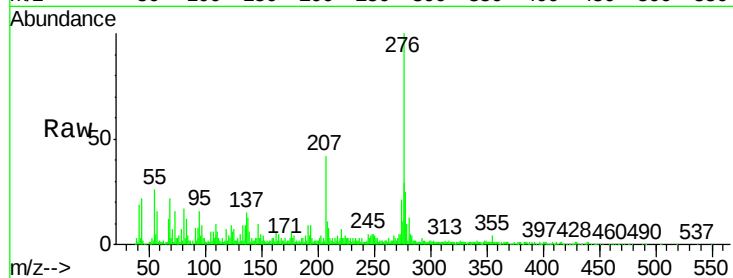
#90  
Dibenzo(a,h)anthracene  
Concen: 6.355 ng/ul  
RT: 25.53 min Scan# 3832  
Delta R.T. 0.04 min  
Lab File: BM014457.D  
Acq: 02 Mar 2018 12:19

Instrument :  
BNA\_M  
ClientSampleId :  
BE5Z9RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 23.2  | 5.8   | 8.8#  |
| 279     | 37.3  | 18.6  | 27.8# |

Manual Integrations  
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#91  
Benzo(g,h,i)perylene  
Concen: 22.028 ng/ul  
RT: 26.20 min Scan# 3947  
Delta R.T. 0.05 min  
Lab File: BM014457.D  
Acq: 02 Mar 2018 12:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 13.5  | 8.5   | 12.7# |
| 277     | 25.0  | 18.6  | 28.0  |

