

Data Path : Z:\HPCHEM1\BNA M\DATA\BM101217\  
 Data File : BM012127.D  
 Acq On : 13 Oct 2017 08:16  
 Operator : SJ/JU  
 Sample : I5568-04  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-75(0-1)-092917

Manual Integrations  
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 6/22/2018 4:49:02 PM

Quant Time: Oct 24 05:24:27 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM101217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Oct 13 04:53:53 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.85  | 152  | 294109   | 20.00 | ng/ul | 0.02     |
| 18) Naphthalene-d8        | 10.66 | 136  | 1183307  | 20.00 | ng/ul | 0.03     |
| 35) Acenaphthene-d10      | 14.51 | 164  | 631503   | 20.00 | ng/ul | 0.03     |
| 61) Phenanthrene-d10      | 17.26 | 188  | 1205604  | 20.00 | ng/ul | 0.03     |
| 75) Chrysene-d12          | 21.44 | 240  | 1429250  | 20.00 | ng/ul | 0.04     |
| 83) Perylene-d12          | 23.79 | 264  | 1575884  | 20.00 | ng/ul | 0.07     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.26  | 96  | 20601   | 3.33  | ng/uL | 0.01 |
| 5) Phenol-d5                   | 7.03  | 99  | 495331  | 20.76 | ng/ul | 0.04 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.17  | 67  | 320556  | 22.40 | ng/ul | 0.02 |
| 9) 2-Chlorophenol-d4           | 7.39  | 132 | 445198  | 21.99 | ng/ul | 0.03 |
| 13) 4-Methylphenol-d8          | 8.57  | 113 | 402842  | 19.61 | ng/ul | 0.03 |
| 19) Nitrobenzene-d5            | 9.02  | 128 | 209994  | 23.25 | ng/ul | 0.02 |
| 22) 2-Nitrophenol-d4           | 9.75  | 143 | 193784  | 18.37 | ng/ul | 0.03 |
| 26) 2,4-Dichlorophenol-d3      | 10.29 | 165 | 445877  | 22.13 | ng/ul | 0.04 |
| 29) 4-Chloroaniline-d4         | 10.80 | 131 | 331988  | 17.61 | ng/ul | 0.03 |
| 43) Dimethylphthalate-d6       | 13.91 | 166 | 1351318 | 24.21 | ng/ul | 0.02 |
| 46) Acenaphthylene-d8          | 14.20 | 160 | 1617245 | 23.94 | ng/ul | 0.03 |
| 51) 4-Nitrophenol-d4           | 14.74 | 143 | 98812   | 11.78 | ng/ul | 0.05 |
| 57) Fluorene-d10               | 15.50 | 176 | 1053550 | 23.00 | ng/ul | 0.03 |
| 62) 4,6-Dinitro-2-methylphenol | 15.66 | 200 | 10599m  | 1.28  | ng/ul | 0.06 |
| 70) Anthracene-d10             | 17.36 | 188 | 1442732 | 24.20 | ng/ul | 0.04 |
| 76) Pyrene-d10                 | 19.65 | 212 | 1551327 | 21.38 | ng/ul | 0.04 |
| 87) Benzo(a)pyrene-d12         | 23.63 | 264 | 1727771 | 22.74 | ng/ul | 0.06 |

## Target Compounds

|                                |       |     |         |      |        | Ovalue |
|--------------------------------|-------|-----|---------|------|--------|--------|
| 6) Phenol                      | 7.06  | 94  | 31975   | 1.30 | ng/ul  | 91     |
| 69) Phenanthrene               | 17.30 | 178 | 175546  | 2.56 | ng/ul  | 97     |
| 74) Fluoranthene               | 19.32 | 202 | 323504  | 3.91 | ng/ul# | 92     |
| 77) Pyrene                     | 19.69 | 202 | 339557  | 3.60 | ng/ul# | 91     |
| 78) Butylbenzylphthalate       | 20.56 | 149 | 54892   | 1.31 | ng/ul# | 86     |
| 80) Benzo(a)anthracene         | 21.42 | 228 | 224729  | 2.42 | ng/ul# | 73     |
| 81) Bis(2-ethylhexyl)phthalate | 21.32 | 149 | 137887  | 2.19 | ng/ul# | 80     |
| 82) Chrysene                   | 21.47 | 228 | 230511  | 2.64 | ng/ul# | 73     |
| 85) Benzo(b)fluoranthene       | 23.07 | 252 | 367297  | 3.57 | ng/ul# | 55     |
| 88) Benzo(a)pyrene             | 23.69 | 252 | 234828  | 2.42 | ng/ul# | 51     |
| 89) Indeno(1,2,3-cd)pyrene     | 26.20 | 276 | 179632  | 1.75 | ng/ul# | 55     |
| 91) Benzo(g,h,i)perylene       | 26.94 | 276 | 217926m | 2.59 | ng/ul  |        |

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

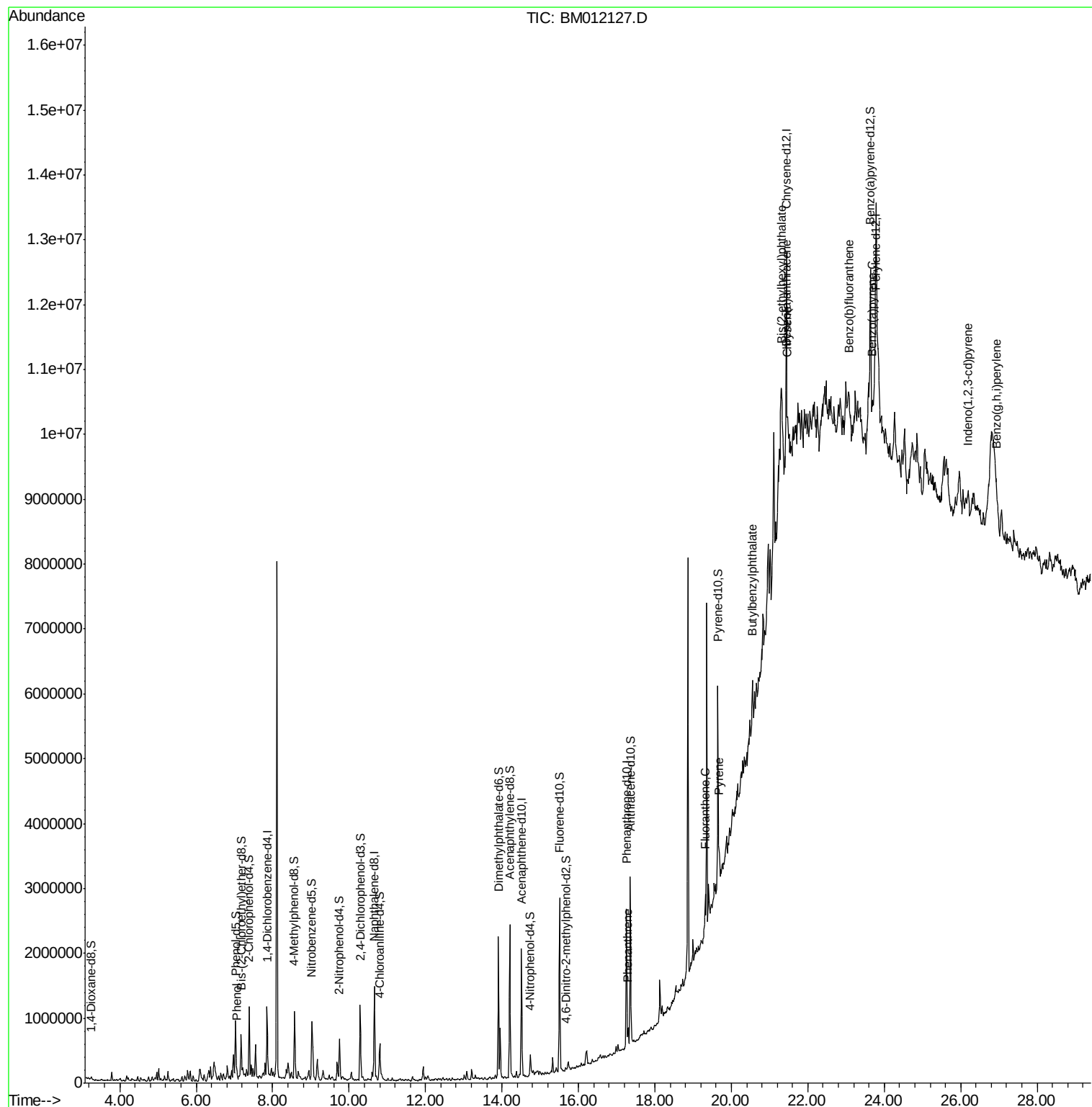
Data Path : Z:\HPCHEM1\BNA M\DATA\BM101217\  
Data File : BM012127.D  
Acq On : 13 Oct 2017 08:16  
Operator : SJ/JU  
Sample : I5568-04  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

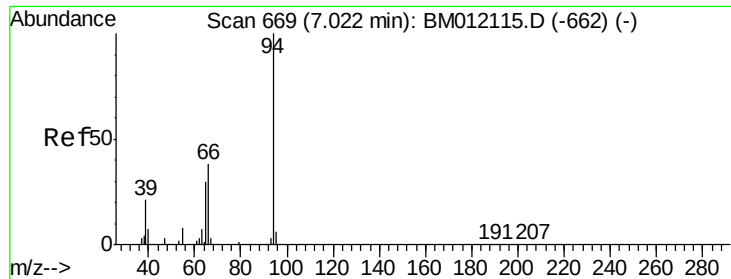
Instrument :  
BNA\_M  
ClientSampleId :  
B-75(0-1)-092917

Quant Time: Oct 24 05:24:27 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM101217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Oct 13 04:53:53 2017  
Response via : Initial Calibration

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#6

Phenol

Concen: 1.30 ng/ul

RT: 7.06 min Scan# 675

Delta R.T. 0.04 min

Lab File: BM012127.D

Acq: 13 Oct 2017 08:16

Instrument :

BNA\_M

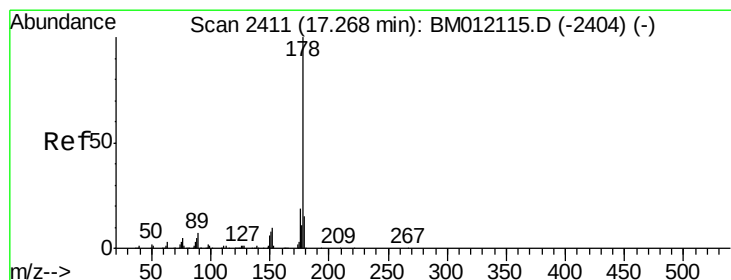
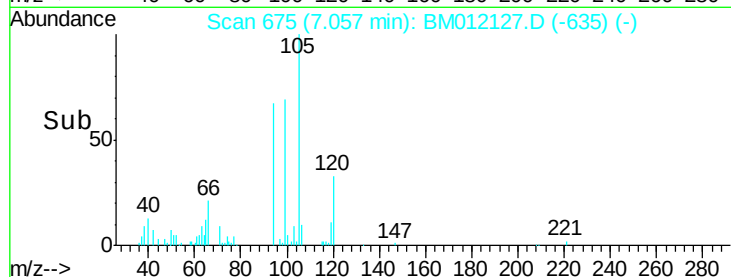
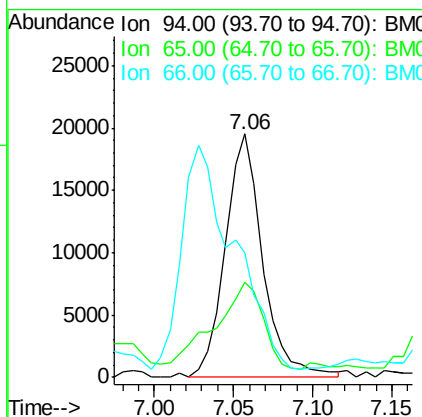
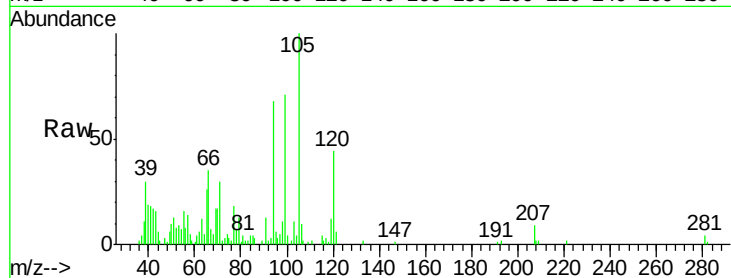
ClientSampled :

B-75(0-1)-092917

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 94    | Resp: | 31975 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 39.0  | 28.2  | 42.4  |
| 66        | 51.4  | 47.2  | 70.8  |

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#69

Phenanthrene

Concen: 2.56 ng/ul

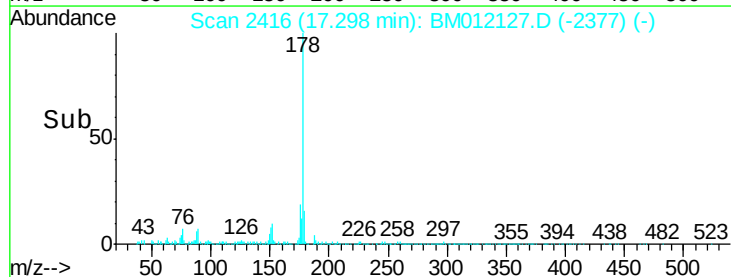
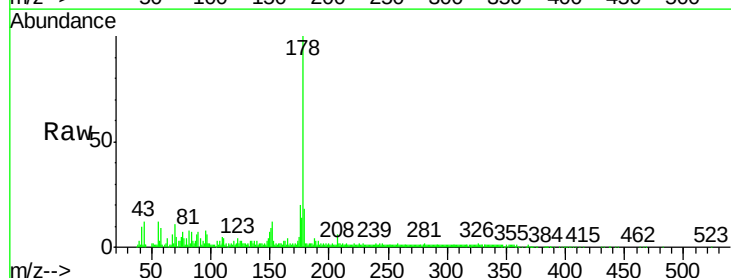
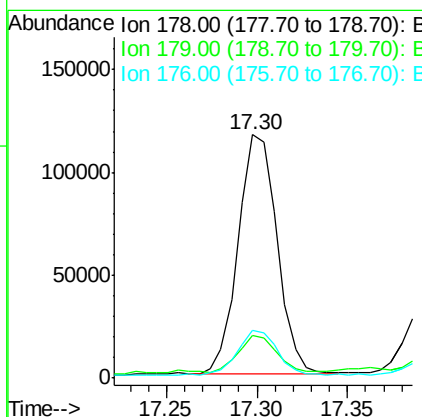
RT: 17.30 min Scan# 2416

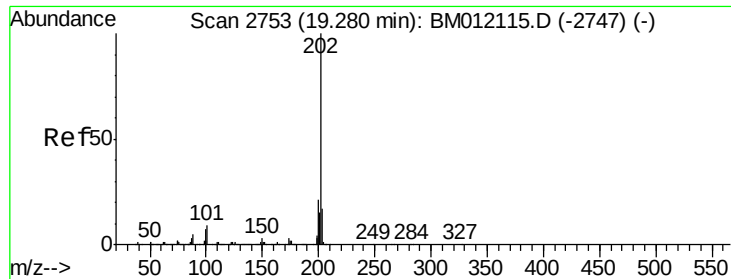
Delta R.T. 0.03 min

Lab File: BM012127.D

Acq: 13 Oct 2017 08:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 175546 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 17.6  | 12.6  | 19.0   |
| 176       | 19.8  | 14.9  | 22.3   |





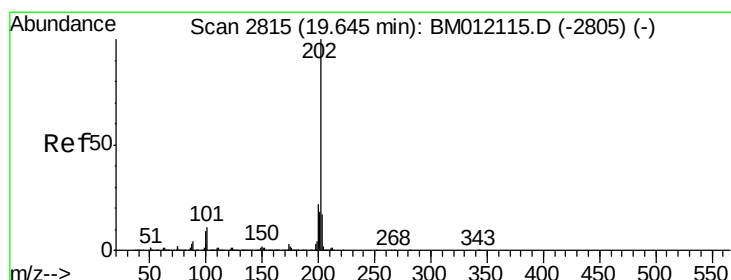
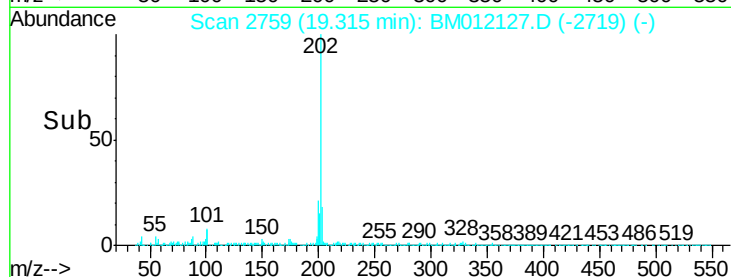
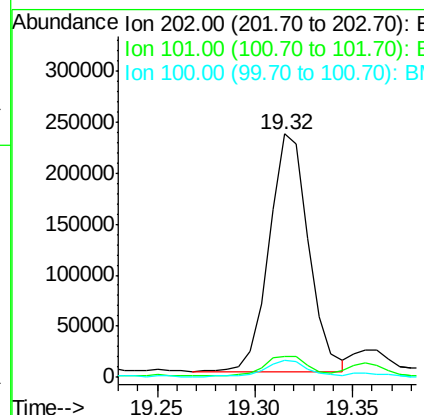
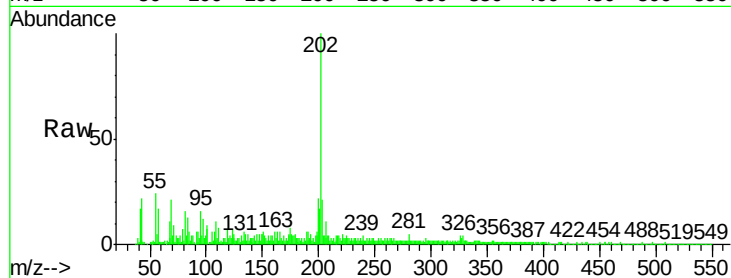
#74  
Fluoranthene  
Concen: 3.91 ng/ul  
RT: 19.32 min Scan# 2759  
Delta R.T. 0.04 min  
Lab File: BM012127.D  
Acq: 13 Oct 2017 08:16

Instrument :  
BNA\_M  
ClientSampleId :  
B-75(0-1)-092917

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 8.6   | 4.6        | 7.0#  |
| 100     | 6.9   | 3.4        | 5.2#  |

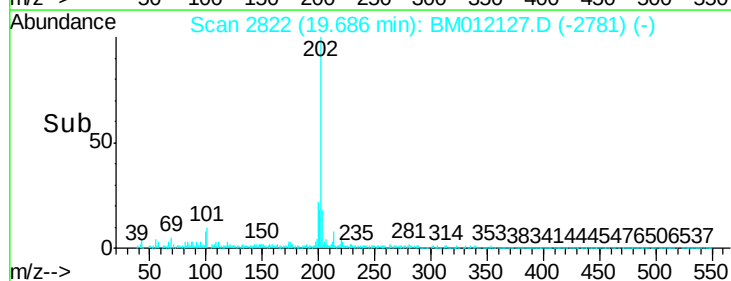
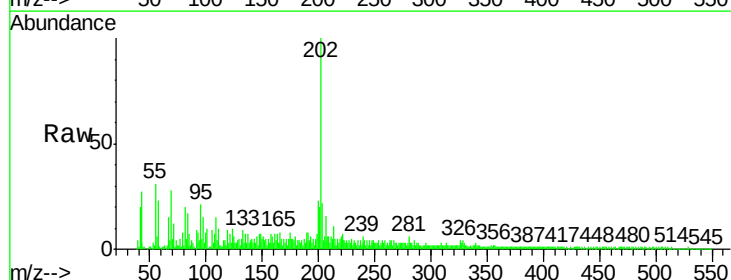
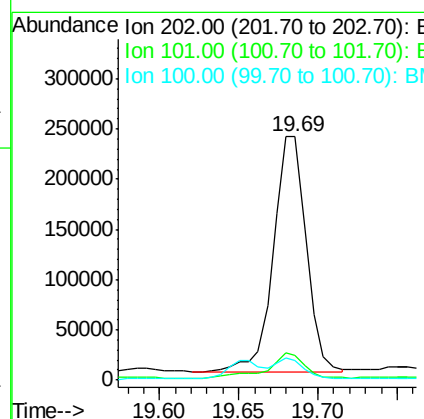
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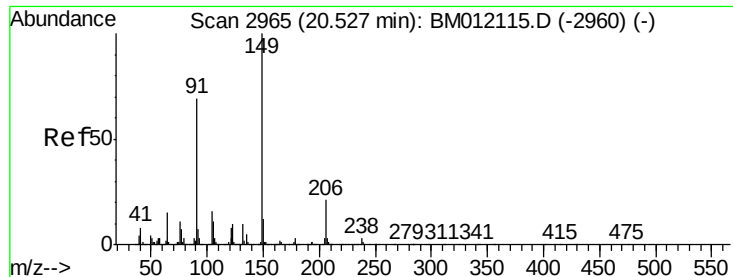
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#77  
Pyrene  
Concen: 3.60 ng/ul  
RT: 19.69 min Scan# 2822  
Delta R.T. 0.04 min  
Lab File: BM012127.D  
Acq: 13 Oct 2017 08:16

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.3  | 5.1        | 7.7#  |
| 100     | 8.1   | 4.9        | 7.3#  |





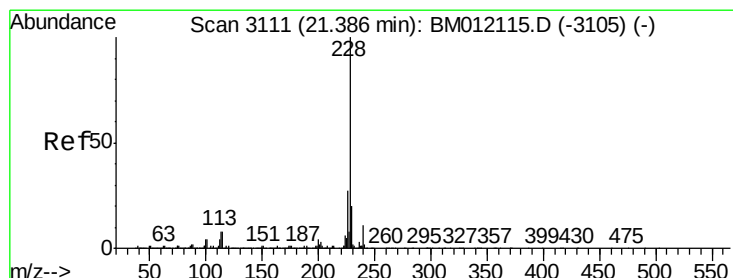
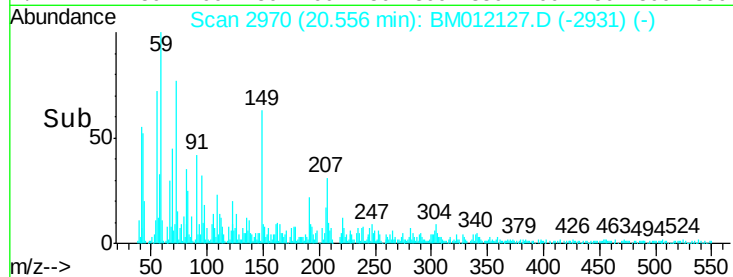
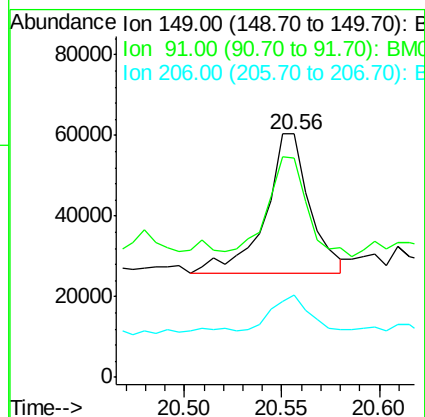
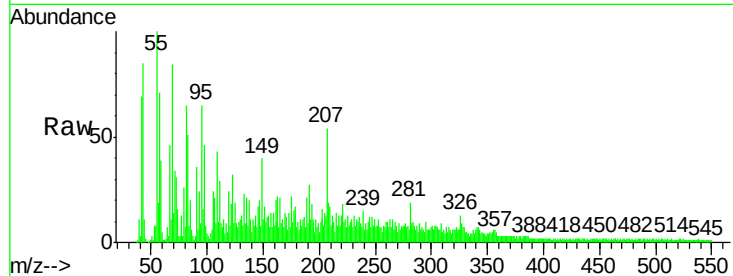
#78  
Butylbenzylphthalate  
Concen: 1.31 ng/ul  
RT: 20.56 min Scan# 2970  
Delta R.T. 0.03 min  
Lab File: BM012127.D  
Acq: 13 Oct 2017 08:16

Instrument :  
BNA\_M  
ClientSampled :  
B-75(0-1)-092917

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 90.2  | 62.7  | 94.1  |
| 206     | 33.8  | 20.8  | 31.2  |

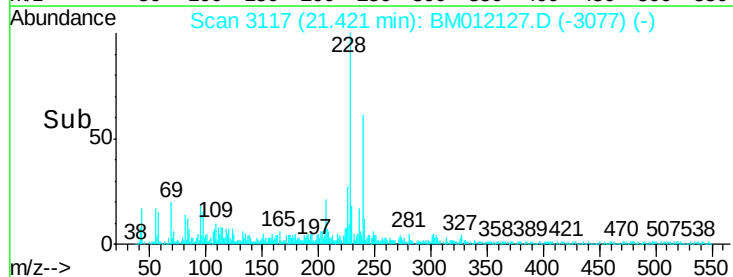
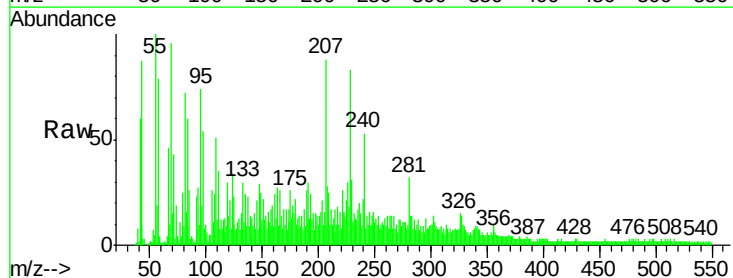
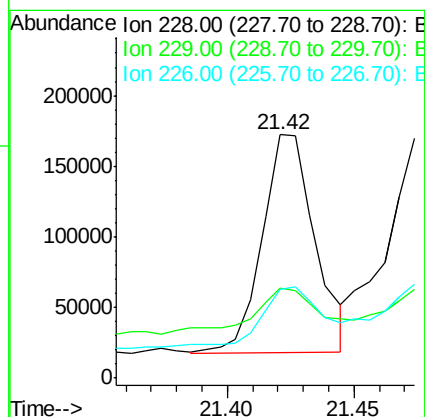
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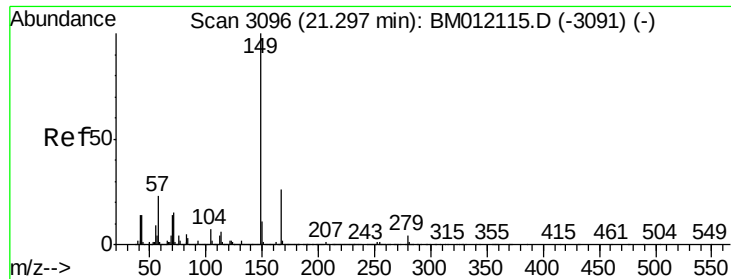
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#80  
Benzo(a)anthracene  
Concen: 2.42 ng/ul  
RT: 21.42 min Scan# 3117  
Delta R.T. 0.04 min  
Lab File: BM012127.D  
Acq: 13 Oct 2017 08:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 37.2  | 15.4  | 23.0  |
| 226     | 36.3  | 21.4  | 32.0  |





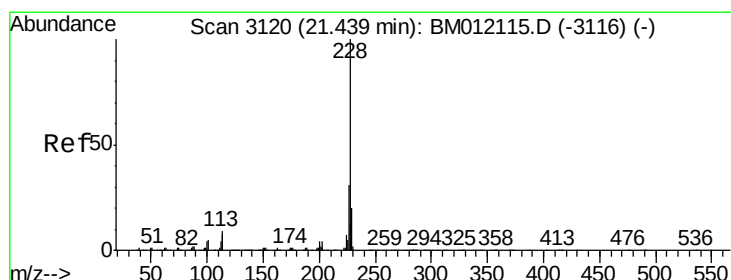
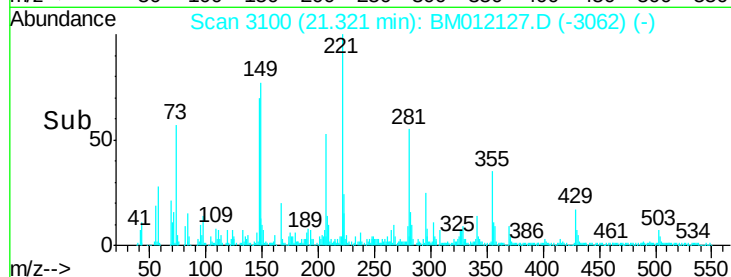
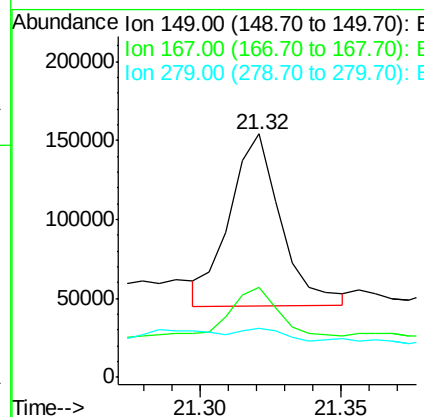
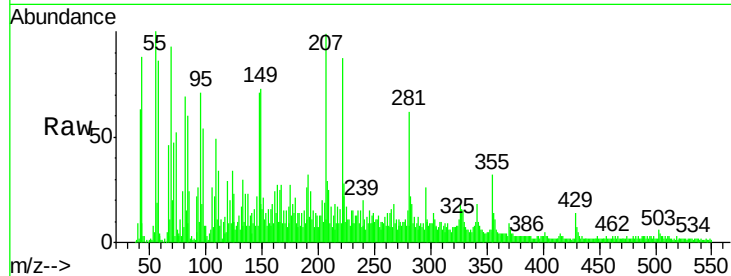
#81  
 Bis(2-ethylhexyl)phthalate  
 Concen: 2.19 ng/ul  
 RT: 21.32 min Scan# 3100  
 Delta R.T. 0.02 min  
 Lab File: BM012127.D  
 Acq: 13 Oct 2017 08:16

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-75(0-1)-092917

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 36.9  | 22.8  | 34.2# |
| 279     | 20.0  | 4.9   | 7.3#  |

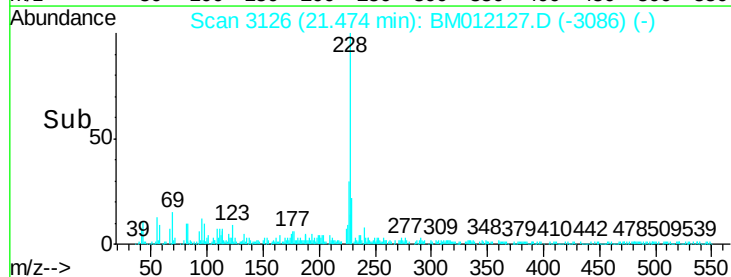
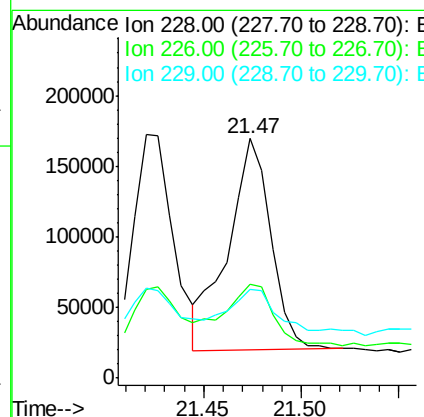
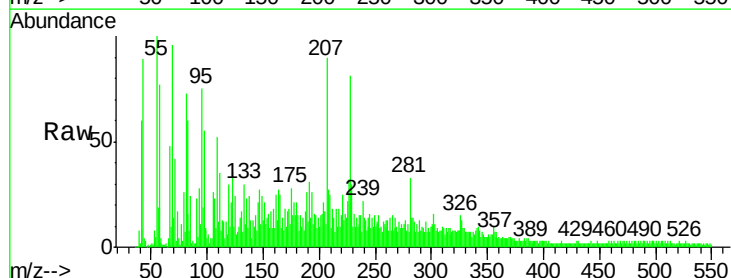
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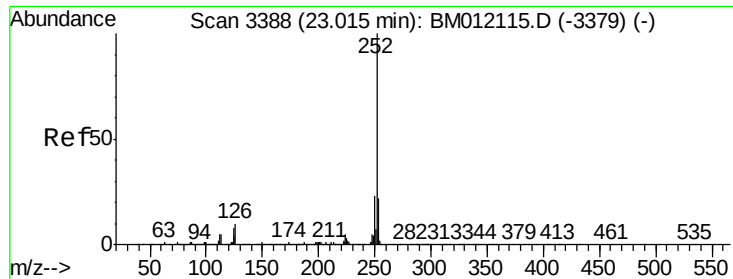
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#82  
 Chrysene  
 Concen: 2.64 ng/ul  
 RT: 21.47 min Scan# 3126  
 Delta R.T. 0.04 min  
 Lab File: BM012127.D  
 Acq: 13 Oct 2017 08:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 39.4  | 23.4  | 35.2# |
| 229     | 37.2  | 15.5  | 23.3# |





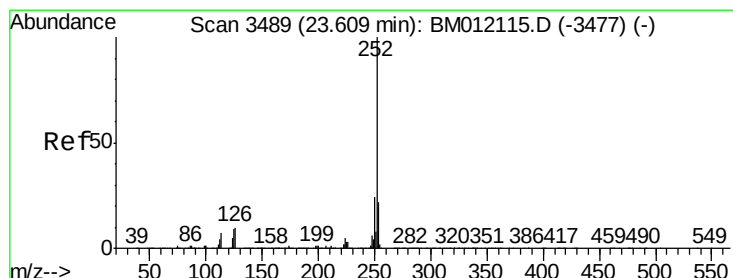
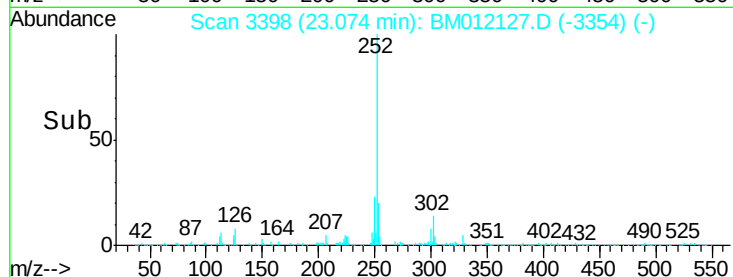
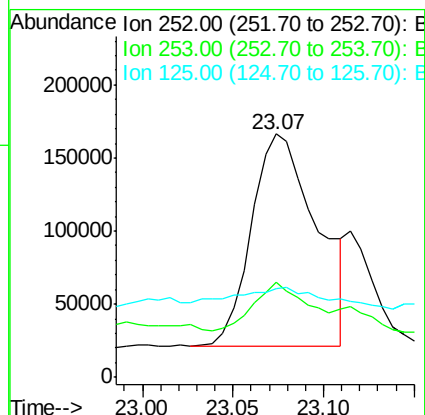
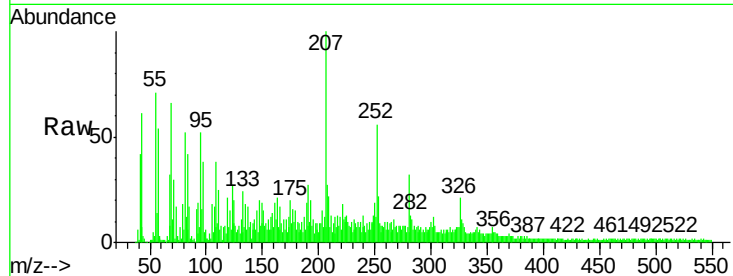
#85  
Benzo(b)fluoranthene  
Concen: 3.57 ng/ul  
RT: 23.07 min Scan# 3398  
Delta R.T. 0.06 min  
Lab File: BM012127.D  
Acq: 13 Oct 2017 08:16

Instrument :  
BNA\_M  
ClientSampleId :  
B-75(0-1)-092917

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 39.1  | 17.9  | 26.9# |
| 125     | 36.2  | 3.6   | 5.4#  |

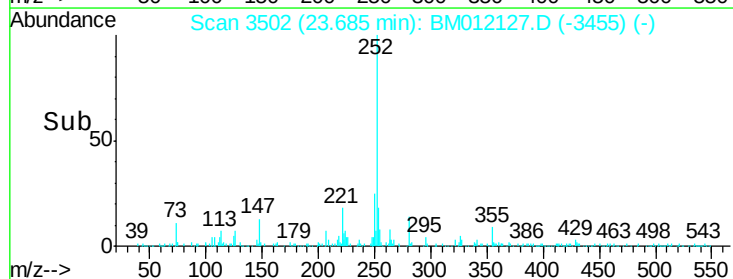
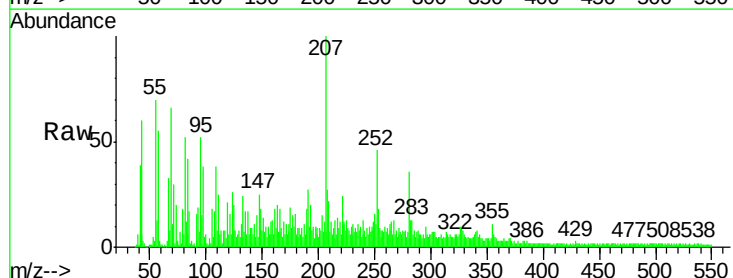
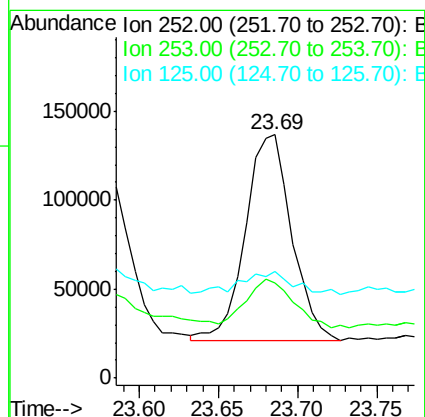
Manual Integrations  
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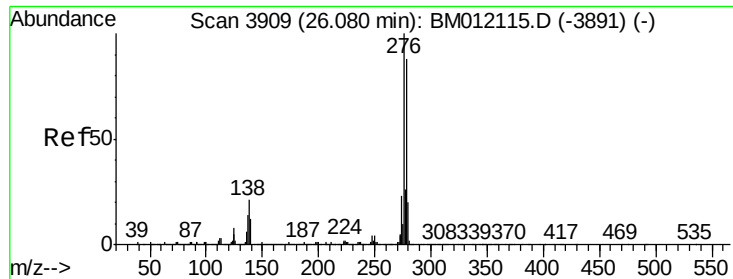
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#88  
Benzo(a)pyrene  
Concen: 2.42 ng/ul  
RT: 23.69 min Scan# 3502  
Delta R.T. 0.08 min  
Lab File: BM012127.D  
Acq: 13 Oct 2017 08:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 39.2  | 18.2  | 27.2# |
| 125     | 43.8  | 4.0   | 6.0#  |





#89

Indeno(1,2,3-cd)pyrene

Concen: 1.75 ng/ul

RT: 26.20 min Scan# 3929

Delta R.T. 0.12 min

Lab File: BM012127.D

Acq: 13 Oct 2017 08:16

Instrument :

BNA\_M

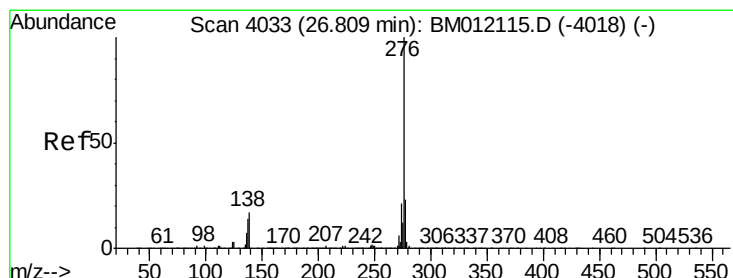
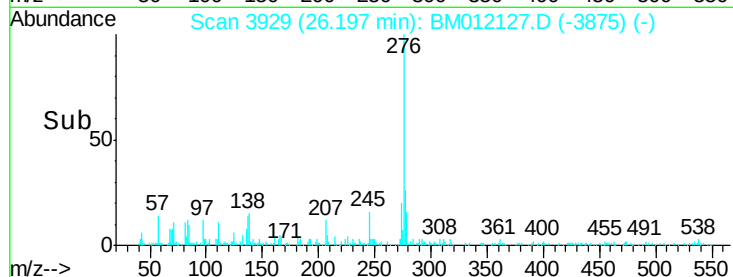
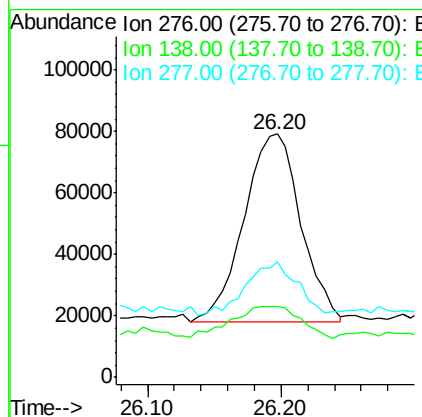
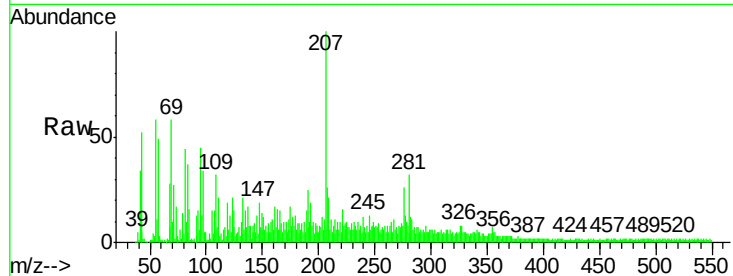
ClientSampled :

B-75(0-1)-092917

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 179632 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 28.8  | 9.3   | 13.9#  |
| 277       | 47.5  | 19.9  | 29.9#  |

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#91

Benzo(g,h,i)perylene

Concen: 2.59 ng/ul m

RT: 26.94 min Scan# 4056

Delta R.T. 0.14 min

Lab File: BM012127.D

Acq: 13 Oct 2017 08:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 217926 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 27.4  | 8.5   | 12.7#  |
| 277       | 41.5  | 18.6  | 28.0#  |

