

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM121517\  
 Data File : BM013469.D  
 Acq On : 16 Dec 2017 09:24  
 Operator : SJ/JU  
 Sample : I6776-08DL 10X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 F9A60DL

Manual Integrations  
 APPROVED

Sohil  
 12/18/2017 2:10:02 PM

Quant Time: Dec 18 02:32:30 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Dec 16 00:23:08 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 226788   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.45 | 136  | 1025664  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.32 | 164  | 602885   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.07 | 188  | 1316075  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.26 | 240  | 1235023  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.48 | 264  | 998139   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.23  | 96  | 1201   | 0.26 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.85  | 99  | 44333  | 2.26 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.02  | 67  | 29032  | 2.59 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.21  | 132 | 39192  | 2.56 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.39  | 113 | 39588  | 2.36 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.83  | 128 | 18861  | 2.32 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.55  | 143 | 20742  | 2.38 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.09 | 165 | 40978m | 2.28 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.60 | 131 | 22074  | 1.34 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.73 | 166 | 138091 | 2.57 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.00 | 160 | 166576 | 2.52 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.55 | 143 | 16086m | 1.73 | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.31 | 176 | 122689 | 2.66 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.45 | 200 | 7768   | 0.94 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.16 | 188 | 174067 | 2.64 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.46 | 212 | 184700 | 3.00 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.34 | 264 | 127333 | 2.50 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |        | Ovalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 47) Acenaphthylene         | 14.04 | 152 | 112093  | 1.830  | ng/ul  | 95 |
| 68) Pentachlorophenol      | 16.72 | 266 | 47064   | 4.769  | ng/ul  | 99 |
| 69) Phenanthrene           | 17.11 | 178 | 266719  | 3.567  | ng/ul  | 98 |
| 71) Anthracene             | 17.20 | 178 | 188931  | 2.472  | ng/ul  | 96 |
| 74) Fluoranthene           | 19.13 | 202 | 812105  | 8.863  | ng/ul# | 92 |
| 77) Pyrene                 | 19.49 | 202 | 909566  | 12.123 | ng/ul# | 91 |
| 80) Benzo(a)anthracene     | 21.24 | 228 | 447352  | 5.709  | ng/ul  | 94 |
| 82) Chrysene               | 21.29 | 228 | 565553  | 7.780  | ng/ul  | 97 |
| 85) Benzo(b)fluoranthene   | 22.82 | 252 | 1302483 | 19.357 | ng/ul# | 98 |
| 86) Benzo(k)fluoranthene   | 22.86 | 252 | 307353m | 4.854  | ng/ul  |    |
| 88) Benzo(a)pyrene         | 23.39 | 252 | 541934  | 8.966  | ng/ul# | 97 |
| 89) Indeno(1,2,3-cd)pyrene | 25.70 | 276 | 421714  | 7.032  | ng/ul# | 96 |
| 90) Dibenzo(a,h)anthracene | 25.72 | 278 | 115133  | 2.255  | ng/ul# | 94 |
| 91) Benzo(g,h,i)perylene   | 26.39 | 276 | 399321  | 8.441  | ng/ul# | 97 |

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

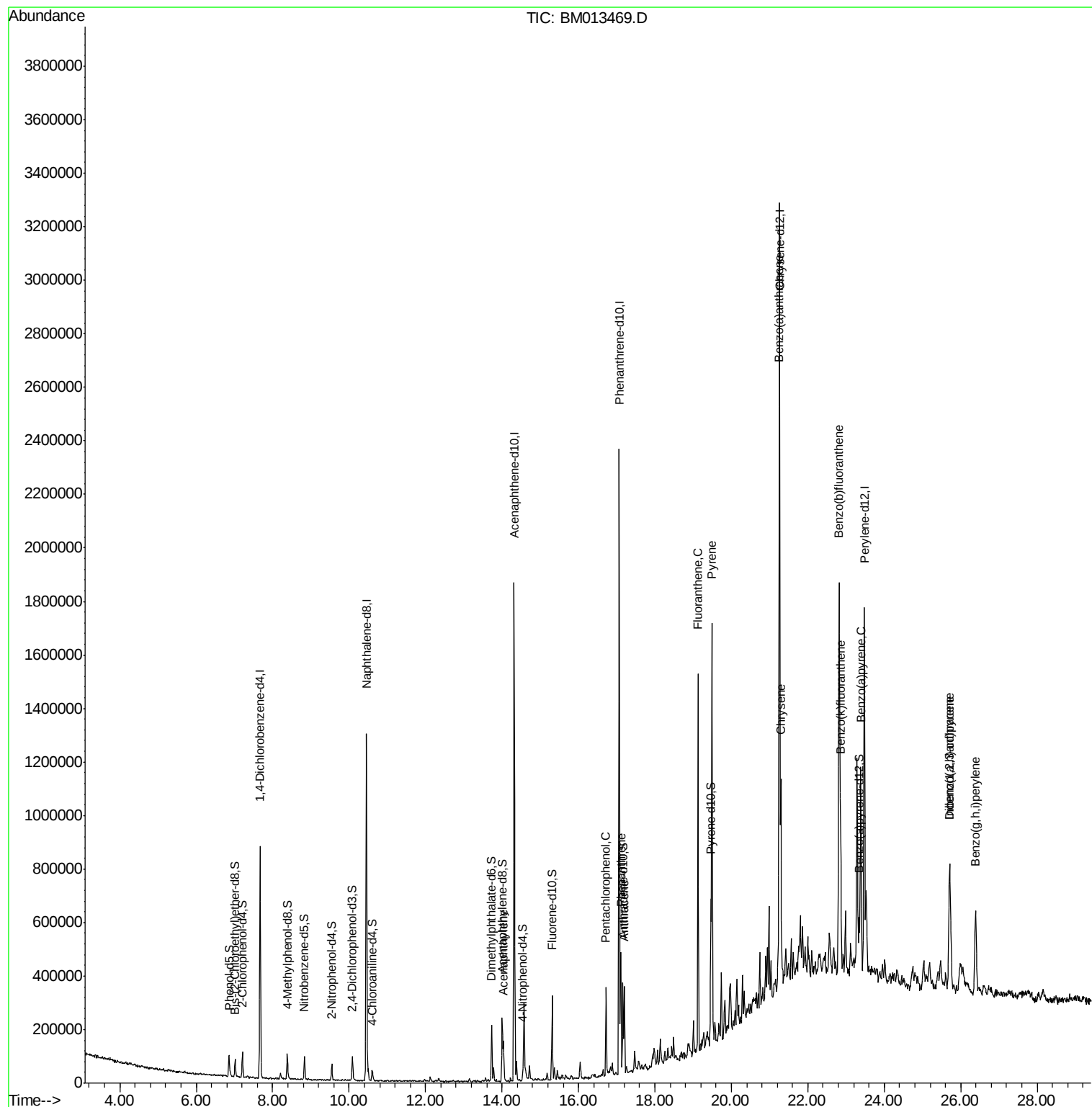
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121517\  
Data File : BM013469.D  
Acq On : 16 Dec 2017 09:24  
Operator : SJ/JU  
Sample : I6776-08DL 10X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

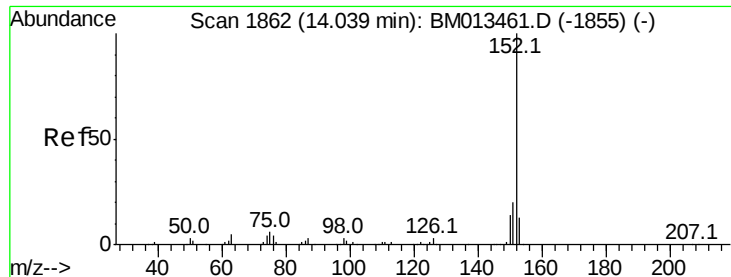
Instrument :  
BNA\_M  
ClientSampleId :  
F9A60DL

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Quant Time: Dec 18 02:32:30 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Dec 16 00:23:08 2017  
Response via : Initial Calibration





#47

Acenaphthylene

Concen: 1.830 ng/ul

RT: 14.04 min Scan# 1862

Delta R.T. 0.00 min

Lab File: BM013469.D

Acq: 16 Dec 2017 09:24

Instrument :

BNA\_M

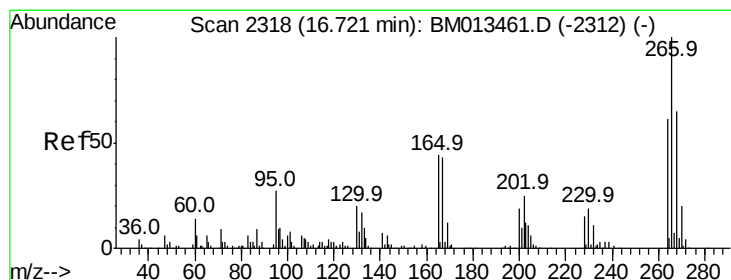
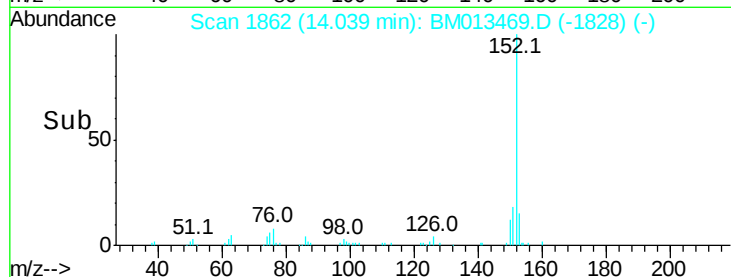
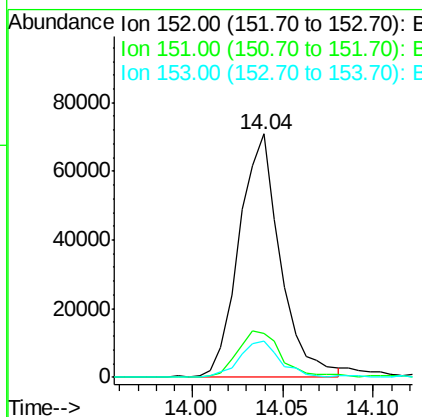
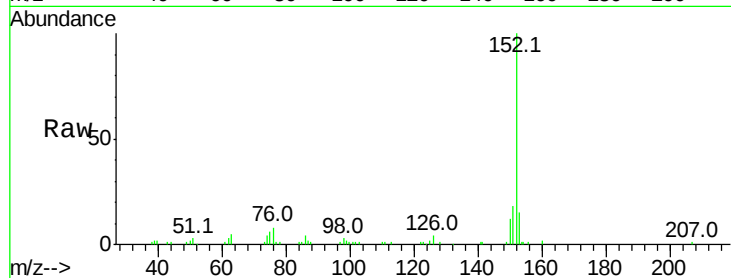
ClientSampleId :

F9A60DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 112093 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 17.9  | 16.3  | 24.5   |
| 153       | 14.9  | 10.2  | 15.4   |

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#68

Pentachlorophenol

Concen: 4.769 ng/ul

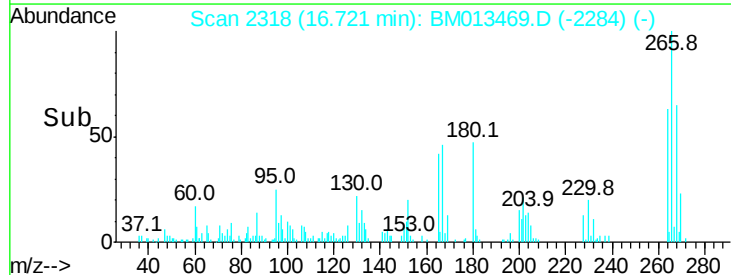
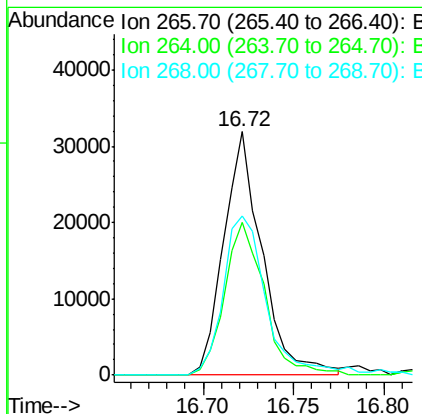
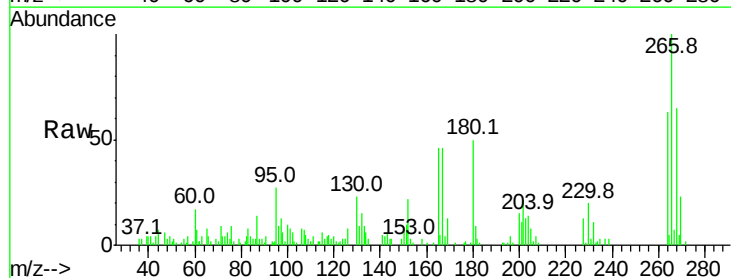
RT: 16.72 min Scan# 2318

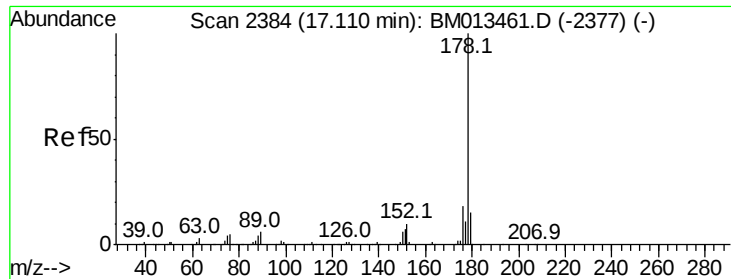
Delta R.T. 0.00 min

Lab File: BM013469.D

Acq: 16 Dec 2017 09:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 47064 |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 62.7  | 49.3  | 73.9  |
| 268       | 65.4  | 52.6  | 78.8  |





#69

Phenanthrene

Concen: 3.567 ng/ul

RT: 17.11 min Scan# 2384

Delta R.T. 0.00 min

Lab File: BM013469.D

Acq: 16 Dec 2017 09:24

Instrument :

BNA\_M

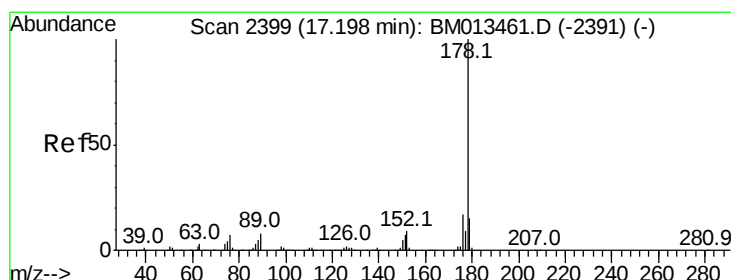
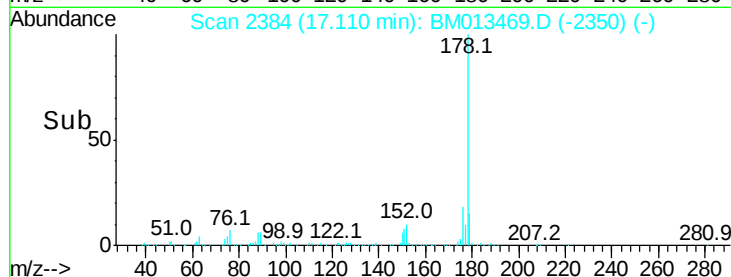
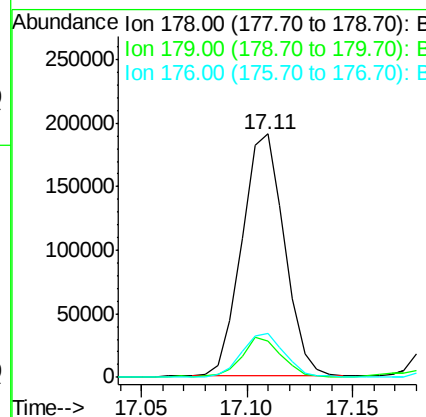
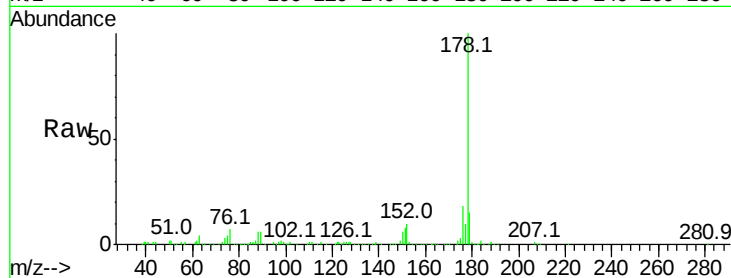
ClientSampleId :

F9A60DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 266719 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.0  | 12.6  | 19.0   |
| 176       | 18.1  | 14.9  | 22.3   |

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#71

Anthracene

Concen: 2.472 ng/ul

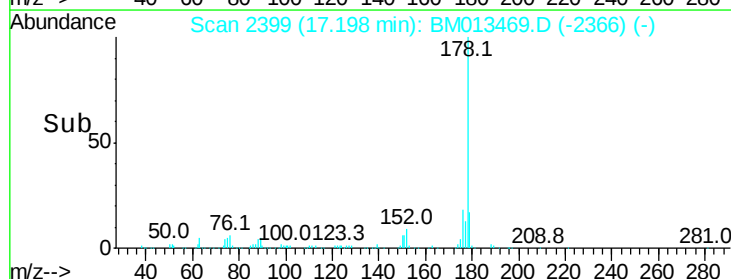
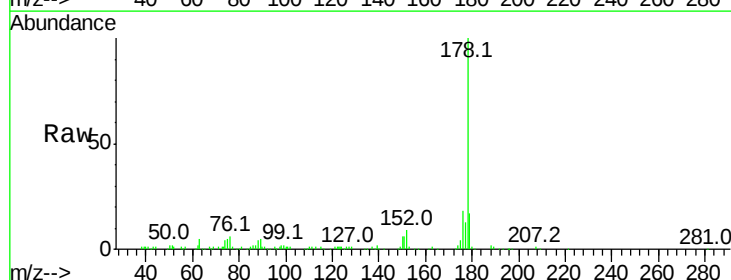
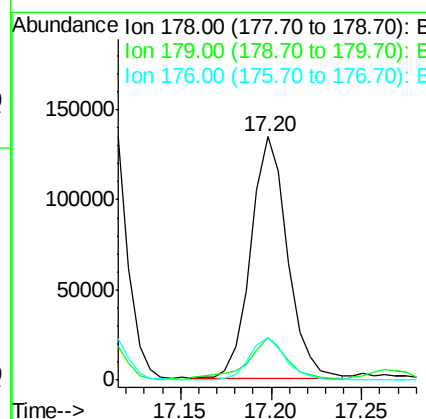
RT: 17.20 min Scan# 2399

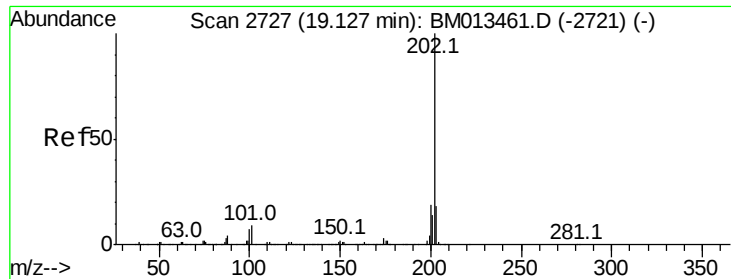
Delta R.T. -0.01 min

Lab File: BM013469.D

Acq: 16 Dec 2017 09:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 188931 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 17.5  | 11.7  | 17.5   |
| 176       | 17.7  | 14.6  | 21.8   |





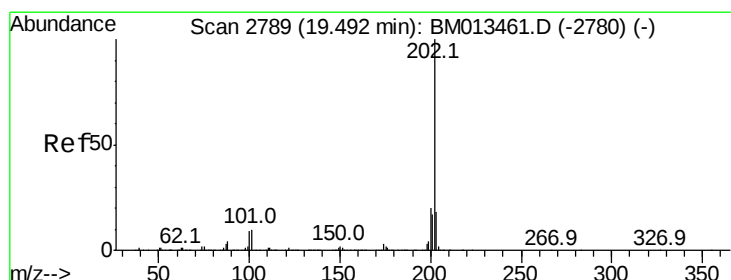
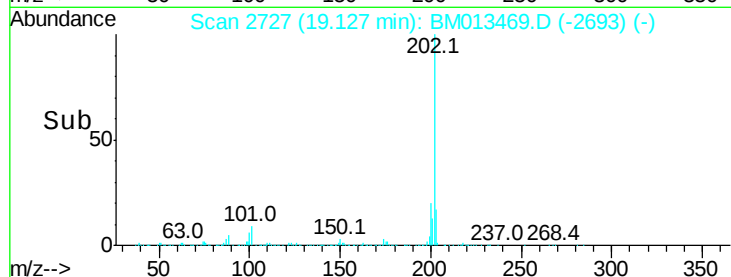
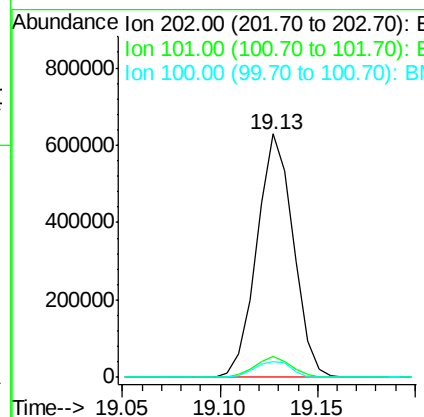
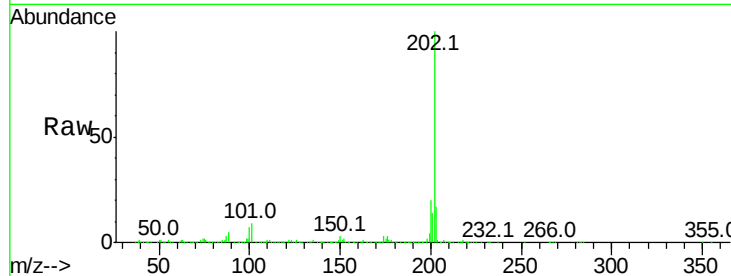
#74  
 Fluoranthene  
 Concen: 8.863 ng/ul  
 RT: 19.13 min Scan# 2727  
 Delta R.T. 0.00 min  
 Lab File: BM013469.D  
 Acq: 16 Dec 2017 09:24

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A60DL

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 8.6   | 4.6        | 7.0#  |
| 100     | 6.6   | 3.4        | 5.2#  |

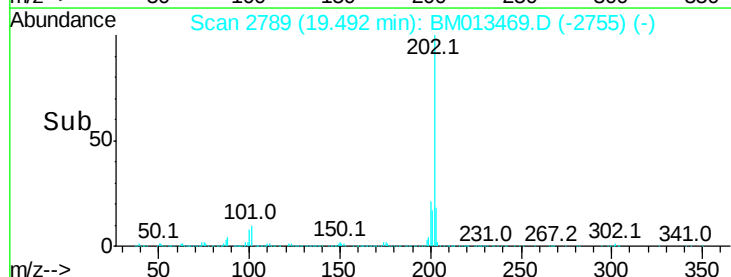
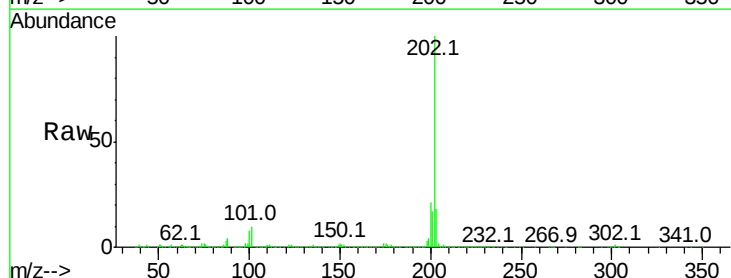
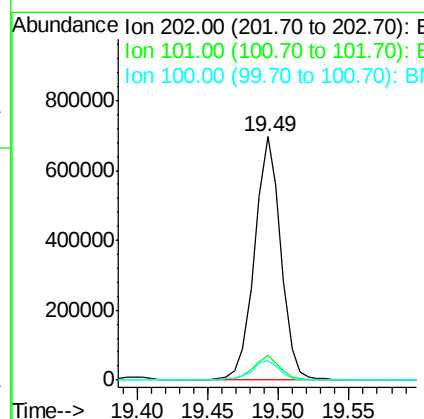
Manual Integrations  
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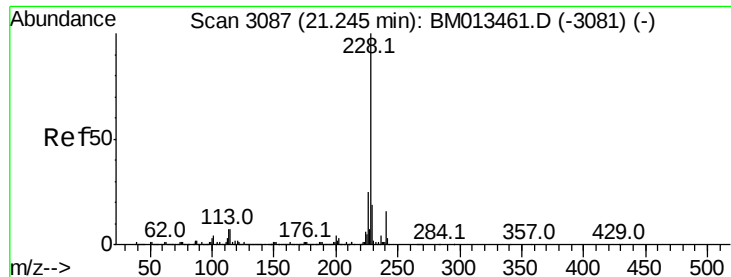
Sohil  
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#77  
 Pyrene  
 Concen: 12.123 ng/ul  
 RT: 19.49 min Scan# 2789  
 Delta R.T. 0.00 min  
 Lab File: BM013469.D  
 Acq: 16 Dec 2017 09:24

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.3  | 5.1        | 7.7#  |
| 100     | 8.2   | 4.9        | 7.3#  |





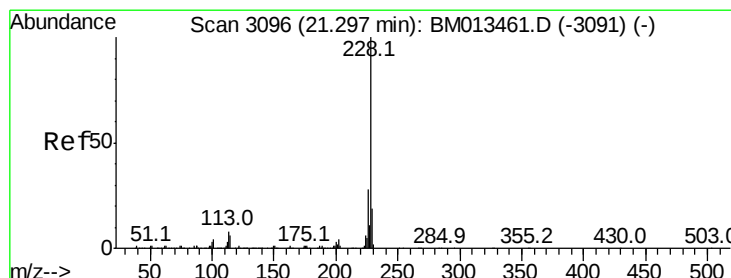
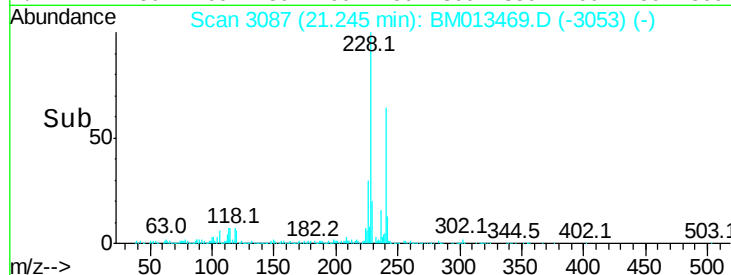
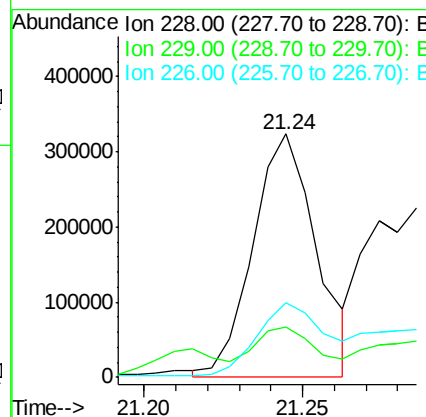
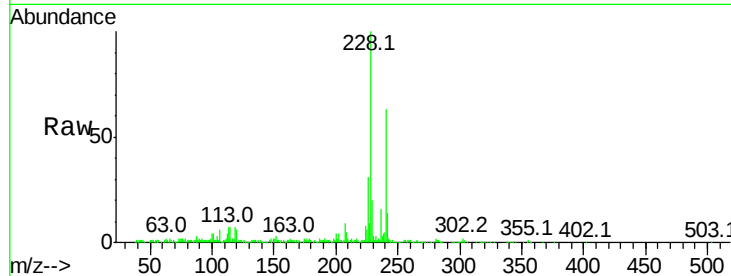
#80  
Benzo(a)anthracene  
Concen: 5.709 ng/ul  
RT: 21.24 min Scan# 3087  
Delta R.T. 0.00 min  
Lab File: BM013469.D  
Acq: 16 Dec 2017 09:24

Instrument :  
BNA\_M  
ClientSampleId :  
F9A60DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.5  | 15.4  | 23.0  |
| 226     | 30.8  | 21.4  | 32.0  |

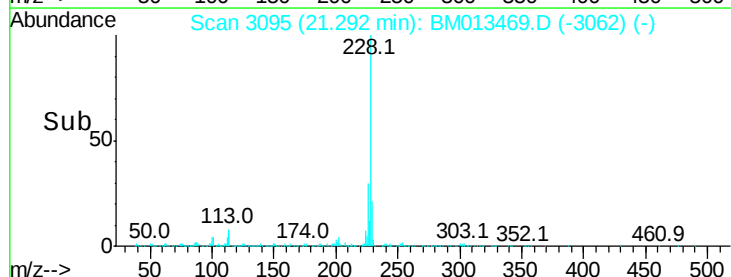
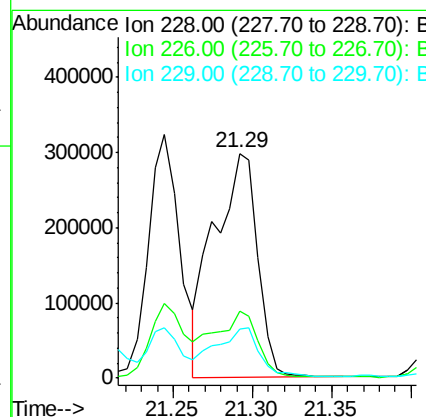
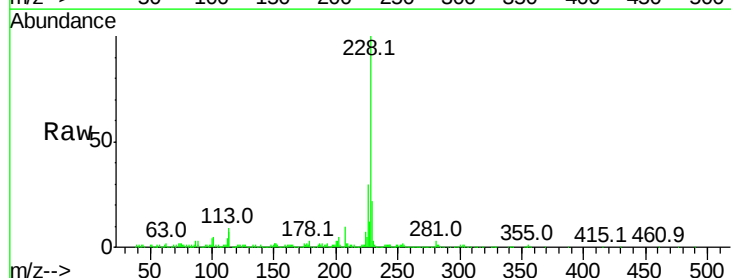
Manual Integrations  
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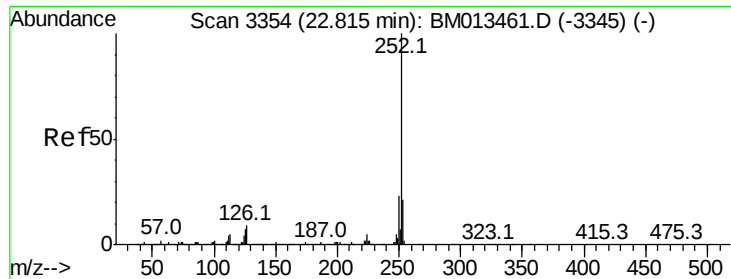
Sohil  
12/18/2017 2:10:02 PM



#82  
Chrysene  
Concen: 7.780 ng/ul  
RT: 21.29 min Scan# 3095  
Delta R.T. -0.01 min  
Lab File: BM013469.D  
Acq: 16 Dec 2017 09:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 23.4  | 35.2  |
| 229     | 22.0  | 15.5  | 23.3  |





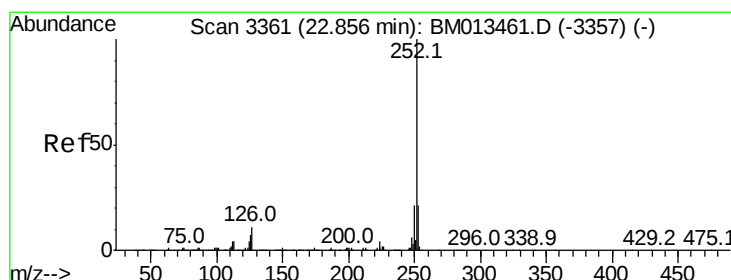
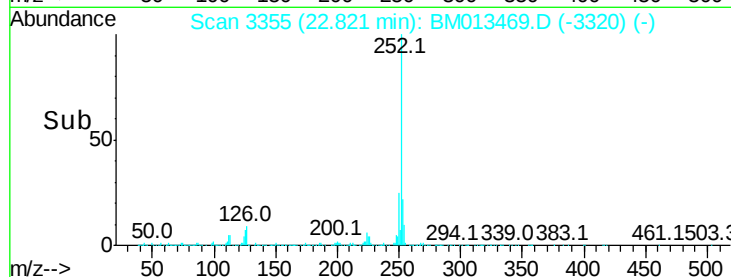
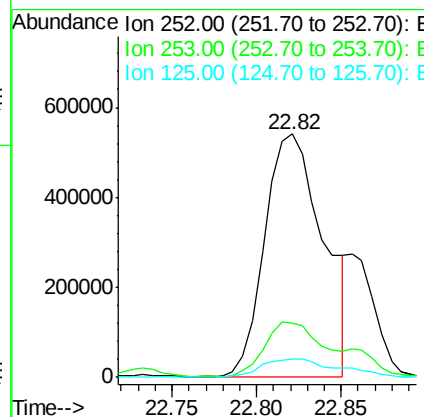
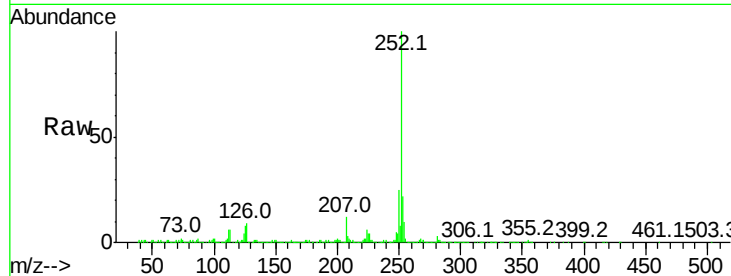
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Benzo(b)fluoranthene  
Concen: 19.357 ng/ul  
RT: 22.82 min Scan# 3355  
Delta R.T. 0.01 min  
Lab File: BM013469.D  
Acq: 16 Dec 2017 09:24

Instrument :  
BNA\_M  
ClientSampled :  
F9A60DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.9  | 26.9  |
| 125     | 7.7   | 3.6   | 5.4   |

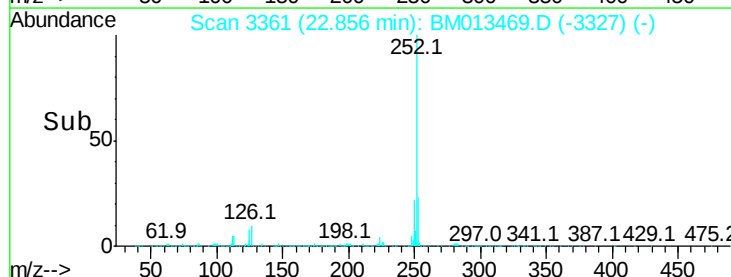
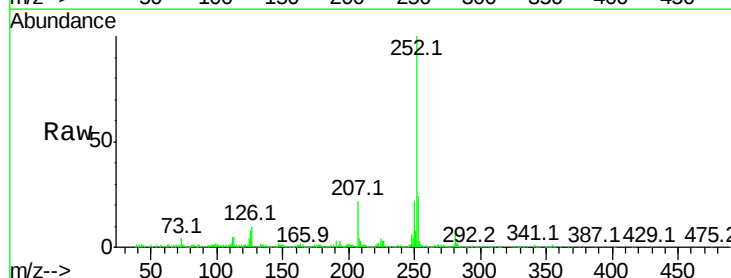
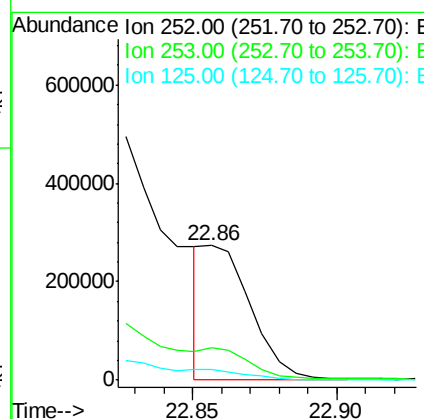
Manual Integrations  
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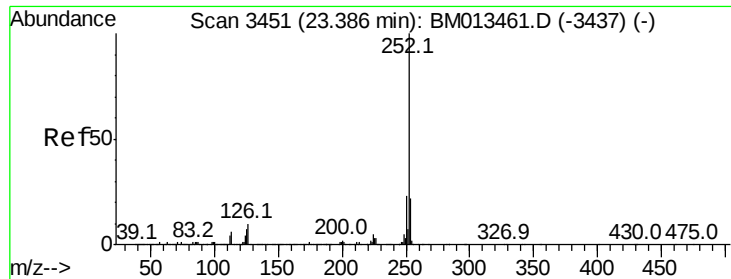
Sohil  
12/18/2017 2:10:02 PM



#86  
Benzo(k)fluoranthene  
Concen: 4.854 ng/ul m  
RT: 22.86 min Scan# 3361  
Delta R.T. 0.00 min  
Lab File: BM013469.D  
Acq: 16 Dec 2017 09:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.1  | 25.7  |
| 125     | 8.0   | 3.4   | 5.2   |





#88

Benzo(a)pyrene

Concen: 8.966 ng/ul

RT: 23.39 min Scan# 3451

Delta R.T. 0.00 min

Lab File: BM013469.D

Acq: 16 Dec 2017 09:24

Instrument :

BNA\_M

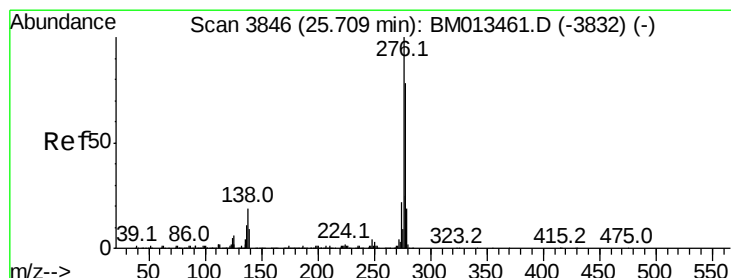
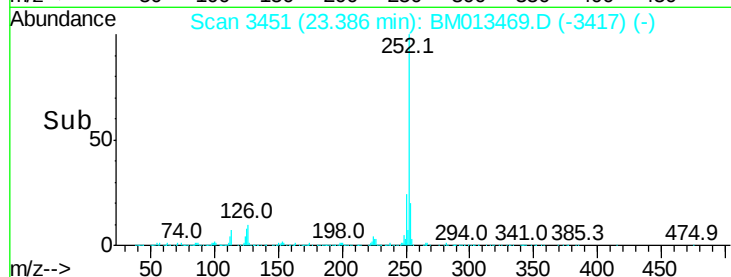
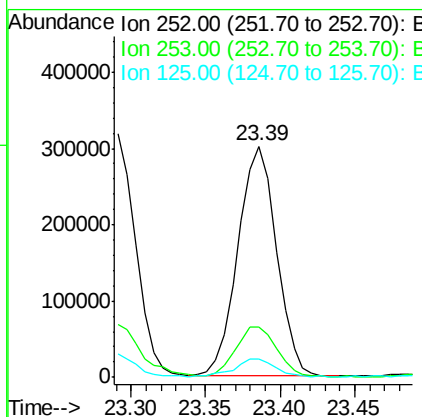
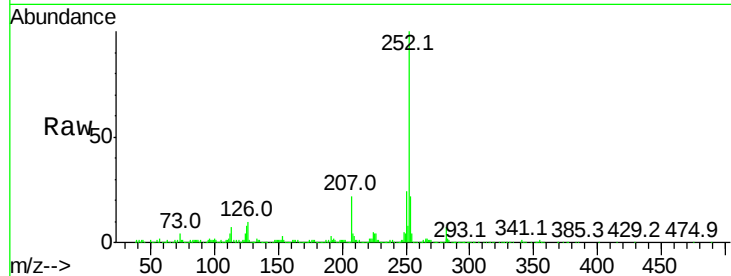
ClientSampleId :

F9A60DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 541934 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.0  | 18.2  | 27.2   |
| 125       | 7.7   | 4.0   | 6.0#   |

Manual Integrations  
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#89

Indeno(1,2,3-cd)pyrene

Concen: 7.032 ng/ul

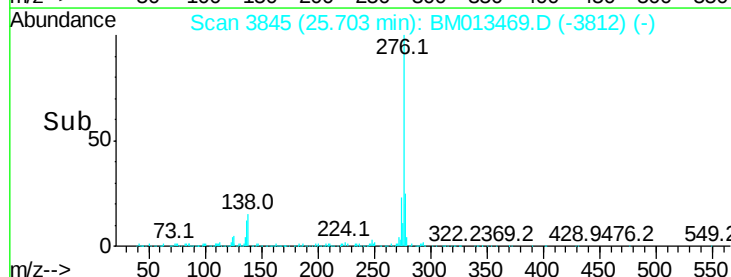
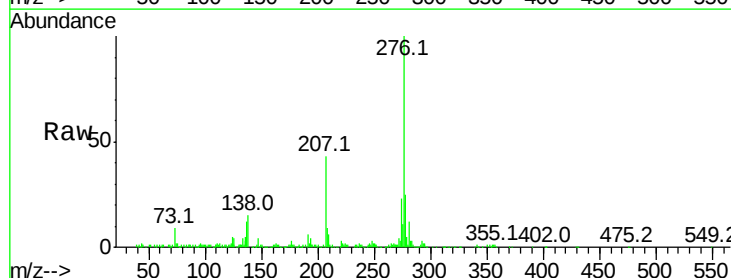
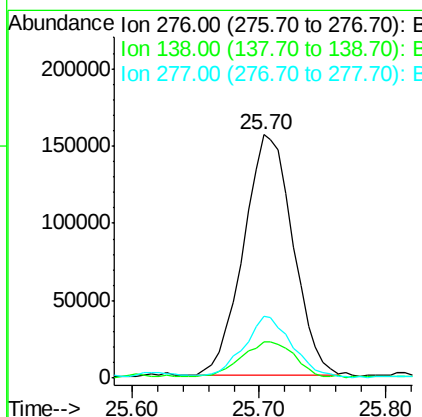
RT: 25.70 min Scan# 3845

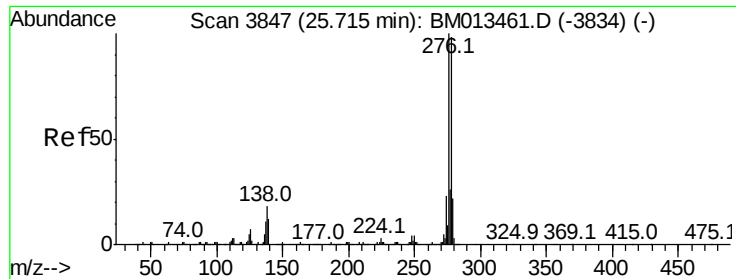
Delta R.T. -0.01 min

Lab File: BM013469.D

Acq: 16 Dec 2017 09:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 421714 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 15.1  | 9.3   | 13.9#  |
| 277       | 25.5  | 19.9  | 29.9   |





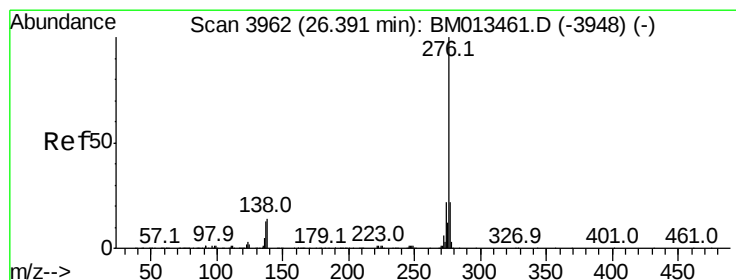
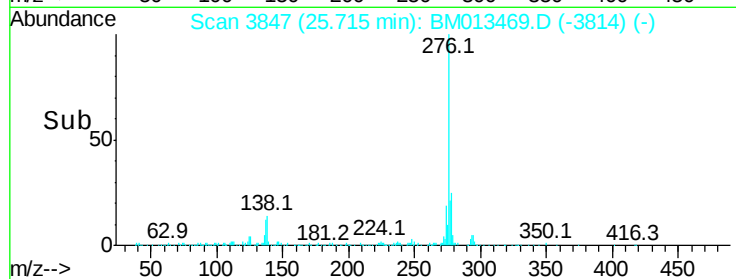
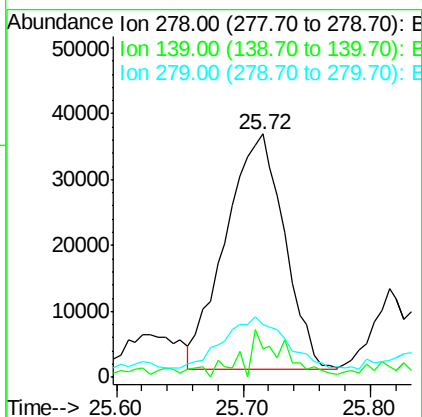
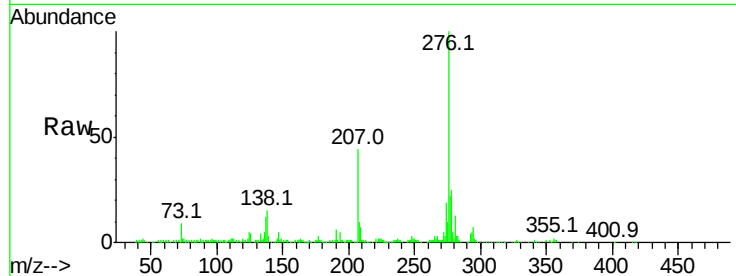
#90  
Dibenzo(a,h)anthracene  
Concen: 2.255 ng/ul  
RT: 25.72 min Scan# 3847  
Delta R.T. -0.01 min  
Lab File: BM013469.D  
Acq: 16 Dec 2017 09:24

Instrument :  
BNA\_M  
ClientSampleID :  
F9A60DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 11.9  | 5.8   | 8.8#  |
| 279     | 21.5  | 18.6  | 27.8  |

Manual Integrations  
APPROVED

Sohil  
12/18/2017 2:10:02 PM



#91  
Benzo(g,h,i)perylene  
Concen: 8.441 ng/ul  
RT: 26.39 min Scan# 3961  
Delta R.T. -0.01 min  
Lab File: BM013469.D  
Acq: 16 Dec 2017 09:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 12.8  | 8.5   | 12.7# |
| 277     | 22.7  | 18.6  | 28.0  |

