

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM110517\  
 Data File : BM012769.D  
 Acq On : 06 Nov 2017 09:21  
 Operator : SJ/JU  
 Sample : I5902-03  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-12(0-1)-101317

Manual Integrations  
 APPROVED

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 11/7/2017 5:35:08 PM

Quant Time: Nov 07 03:47:53 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\Methods\SOM-EPA-BM110417MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 06 07:19:57 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.82  | 152  | 134846   | 20.00  | ng/ul  | 0.00     |
| 18) Naphthalene-d8             | 10.61 | 136  | 565856   | 20.00  | ng/ul  | 0.01     |
| 35) Acenaphthene-d10           | 14.46 | 164  | 362015   | 20.00  | ng/ul  | 0.01     |
| 61) Phenanthrene-d10           | 17.20 | 188  | 818048   | 20.00  | ng/ul  | 0.01     |
| 77) Chrysene-d12               | 21.39 | 240  | 655443   | 20.00  | ng/ul  | 0.01     |
| 85) Perylene-d12               | 23.68 | 264  | 740640   | 20.00  | ng/ul  | 0.02     |
| System Monitoring Compounds    |       |      |          |        |        |          |
| 3) 1,4-Dioxane-d8              | 3.30  | 96   | 12538    | 5.02   | ng/uL  | 0.00     |
| 5) Phenol-d5                   | 7.00  | 99   | 295013   | 29.40  | ng/ul  | 0.01     |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.15  | 67   | 156445   | 28.77  | ng/ul  | 0.01     |
| 9) 2-Chlorophenol-d4           | 7.36  | 132  | 256936   | 30.74  | ng/ul  | 0.01     |
| 13) 4-Methylphenol-d8          | 8.53  | 113  | 246031   | 28.41  | ng/ul  | 0.01     |
| 19) Nitrobenzene-d5            | 8.97  | 128  | 127425   | 30.48  | ng/ul  | 0.00     |
| 22) 2-Nitrophenol-d4           | 9.69  | 143  | 137807   | 28.81  | ng/ul  | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.24 | 165  | 288914   | 29.46  | ng/ul  | 0.01     |
| 29) 4-Chloroaniline-d4         | 10.75 | 131  | 206677   | 21.84  | ng/ul  | 0.00     |
| 43) Dimethylphthalate-d6       | 13.86 | 166  | 891633   | 29.76  | ng/ul  | 0.00     |
| 46) Acenaphthylene-d8          | 14.15 | 160  | 1136884  | 30.68  | ng/ul  | 0.01     |
| 51) 4-Nitrophenol-d4           | 14.68 | 143  | 124055   | 25.84  | ng/ul  | 0.02     |
| 57) Fluorene-d10               | 15.45 | 176  | 805444   | 31.39  | ng/ul  | 0.01     |
| 62) 4,6-Dinitro-2-methylphenol | 15.59 | 200  | 21454    | 3.97   | ng/ul  | 0.02     |
| 70) Anthracene-d10             | 17.30 | 188  | 1186838  | 30.03  | ng/ul  | 0.01     |
| 78) Pyrene-d10                 | 19.60 | 212  | 1082909  | 35.61  | ng/ul  | 0.02     |
| 89) Benzo(a)pyrene-d12         | 23.54 | 264  | 1090753  | 31.15  | ng/ul  | 0.03     |
| Target Compounds               |       |      |          |        |        |          |
| 6) Phenol                      | 7.03  | 94   | 56274    | 5.464  | ng/ul  | 97       |
| 28) Naphthalene                | 10.66 | 128  | 106989   | 3.782  | ng/ul  | 99       |
| 34) 2-Methylnaphthalene        | 12.27 | 142  | 39139    | 1.810  | ng/ul  | 97       |
| 44) Dimethylphthalate          | 13.91 | 163  | 514186   | 17.297 | ng/ul  | 99       |
| 60) 4-Nitroaniline             | 15.53 | 138  | 44611    | 7.638  | ng/ul  | 97       |
| 69) Phenanthrene               | 17.24 | 178  | 368869   | 8.250  | ng/ul  | 98       |
| 71) Anthracene                 | 17.33 | 178  | 70866m   | 1.529  | ng/ul  |          |
| 76) Fluoranthene               | 19.26 | 202  | 603305   | 11.228 | ng/ul# | 94       |
| 79) Pyrene                     | 19.63 | 202  | 504624   | 12.904 | ng/ul# | 91       |
| 82) Benzo(a)anthracene         | 21.37 | 228  | 308272   | 7.772  | ng/ul# | 95       |
| 83) Bis(2-ethylhexyl)phthalate | 21.29 | 149  | 27946    | 1.345  | ng/ul# | 84       |
| 84) Chrysene                   | 21.42 | 228  | 374112   | 10.408 | ng/ul# | 94       |
| 87) Benzo(b)fluoranthene       | 22.99 | 252  | 554587   | 12.253 | ng/ul  | 97       |
| 88) Benzo(k)fluoranthene       | 23.03 | 252  | 193086m  | 4.488  | ng/ul  |          |
| 90) Benzo(a)pyrene             | 23.58 | 252  | 363284   | 8.435  | ng/ul  | 97       |
| 91) Indeno(1,2,3-cd)pyrene     | 26.01 | 276  | 325533   | 6.272  | ng/ul# | 86       |
| 92) Dibenzo(a,h)anthracene     | 26.00 | 278  | 90680    | 2.064  | ng/ul# | 65       |
| 93) Benzo(g,h,i)perylene       | 26.72 | 276  | 292095   | 6.829  | ng/ul# | 90       |

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

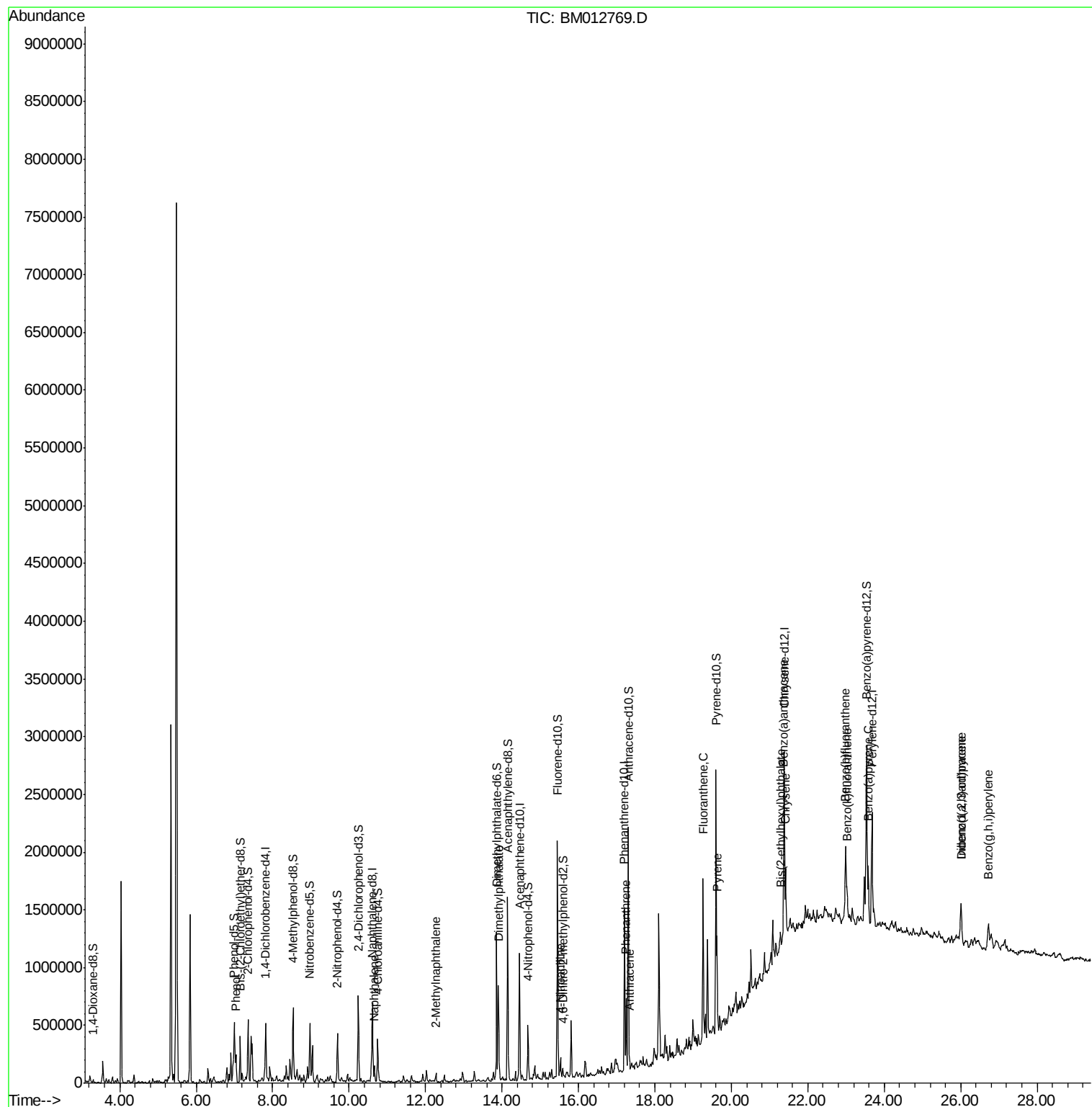
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM110517\  
Data File : BM012769.D  
Acq On : 06 Nov 2017 09:21  
Operator : SJ/JU  
Sample : I5902-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

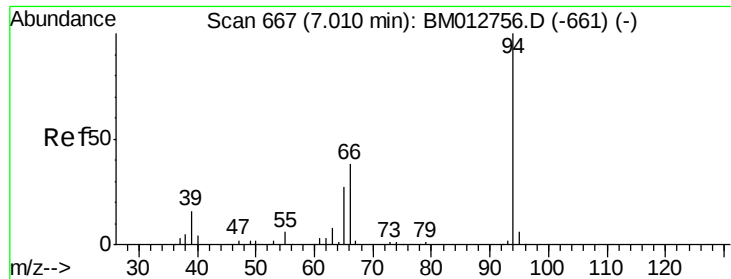
Instrument :  
BNA\_M  
ClientSampleId :  
B-12(0-1)-101317

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Quant Time: Nov 07 03:47:53 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\Methods\SOM-EPA-BM110417MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Nov 06 07:19:57 2017  
Response via : Initial Calibration





#6

Phenol

Concen: 5.464 ng/ul

RT: 7.03 min Scan# 670

Delta R.T. 0.02 min

Lab File: BM012769.D

Acq: 06 Nov 2017 09:21

Instrument :

BNA\_M

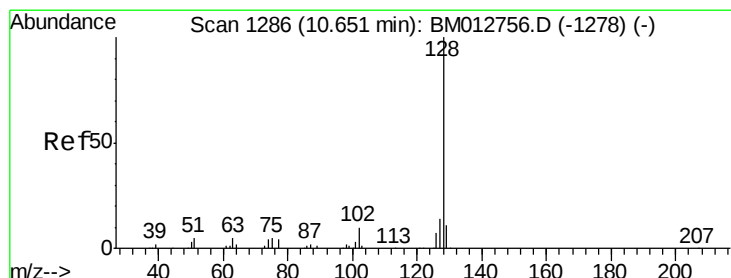
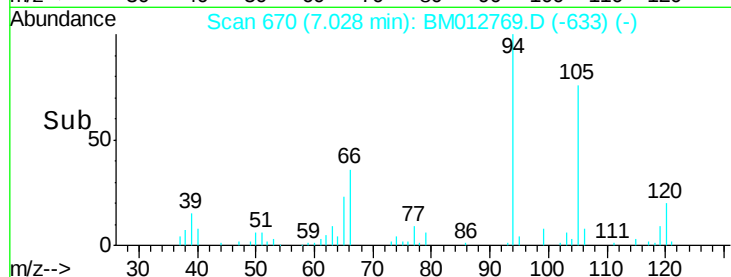
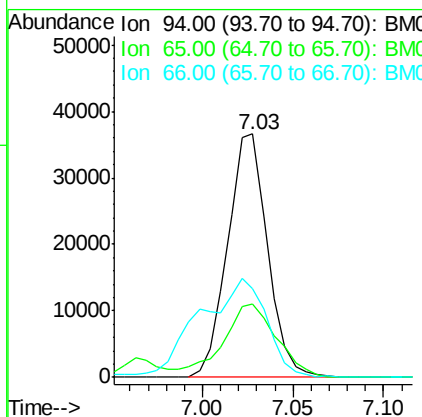
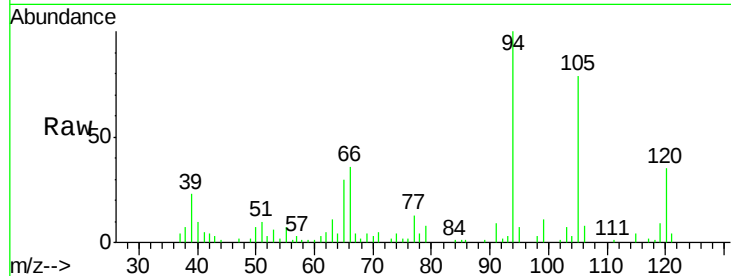
ClientSampleId :

B-12(0-1)-101317

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 56274 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 30.1  | 21.0  | 31.6  |
| 66        | 36.4  | 29.3  | 43.9  |

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#28

Naphthalene

Concen: 3.782 ng/ul

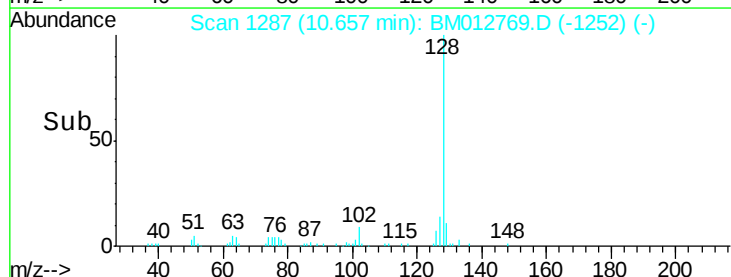
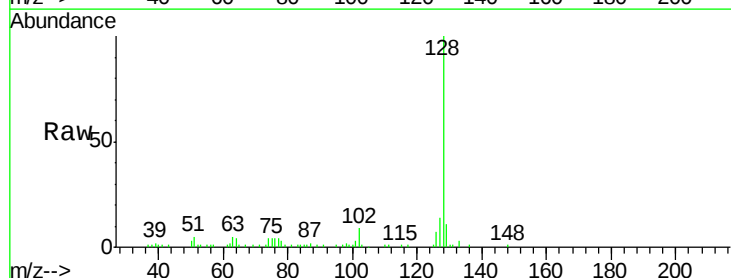
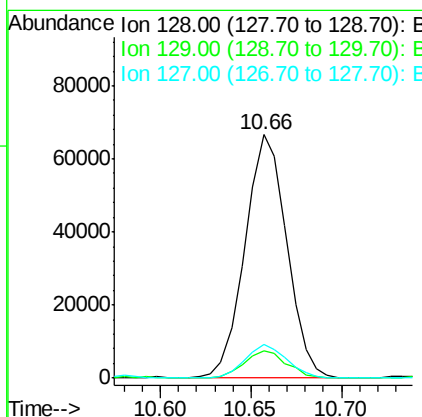
RT: 10.66 min Scan# 1287

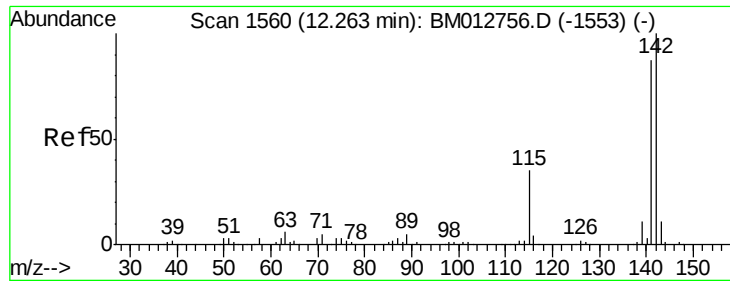
Delta R.T. 0.01 min

Lab File: BM012769.D

Acq: 06 Nov 2017 09:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 106989 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 11.2  | 8.8   | 13.2   |
| 127       | 13.6  | 10.5  | 15.7   |





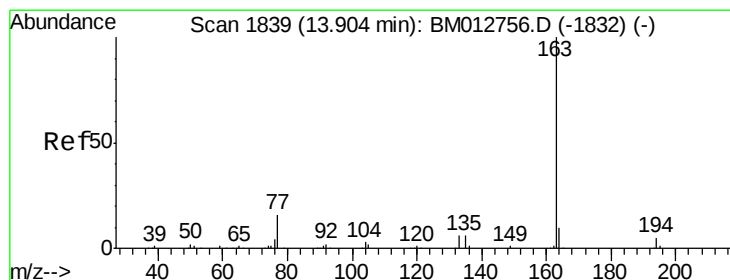
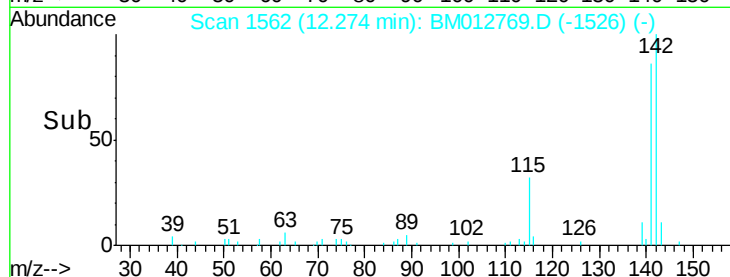
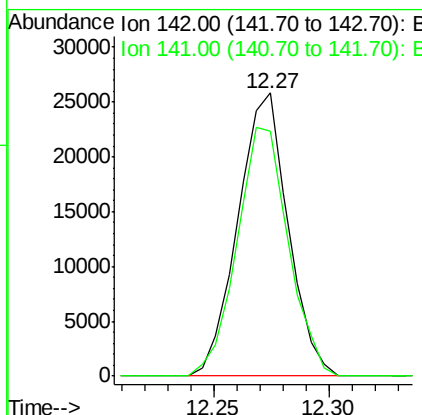
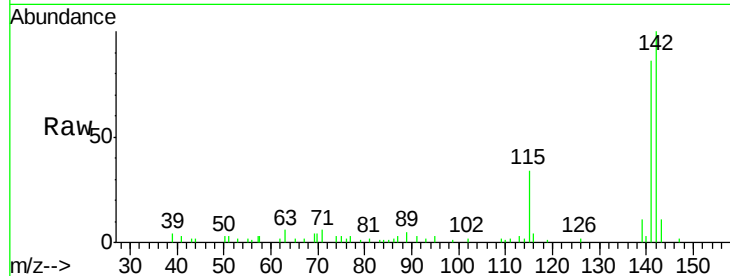
#34  
2-Methylnaphthalene  
Concen: 1.810 ng/ul  
RT: 12.27 min Scan# 1562  
Delta R.T. 0.01 min  
Lab File: BM012769.D  
Acq: 06 Nov 2017 09:21

Instrument :  
BNA\_M  
ClientSampleId :  
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Tgt Ion:142 Resp: 39139  
Ion Ratio Lower Upper  
142 100  
141 86.3 71.6 107.4

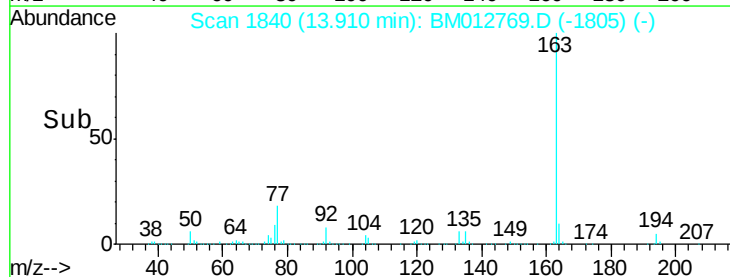
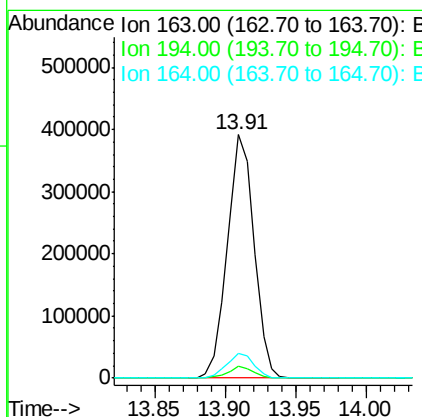
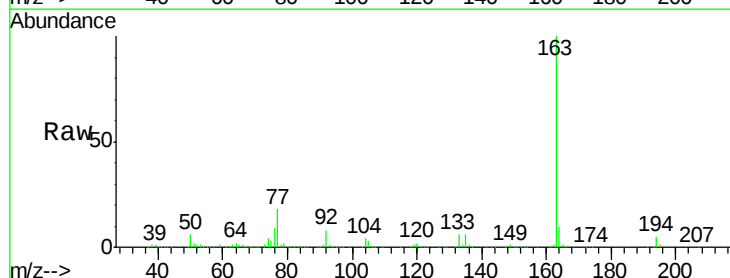
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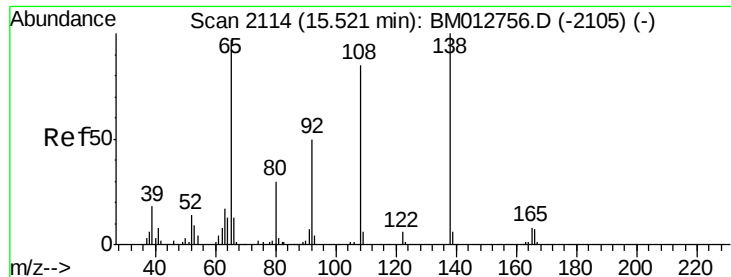
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#44  
Dimethylphthalate  
Concen: 17.297 ng/ul  
RT: 13.91 min Scan# 1840  
Delta R.T. 0.01 min  
Lab File: BM012769.D  
Acq: 06 Nov 2017 09:21

Tgt Ion:163 Resp: 514186  
Ion Ratio Lower Upper  
163 100  
194 4.7 3.2 4.8  
164 10.2 7.8 11.8





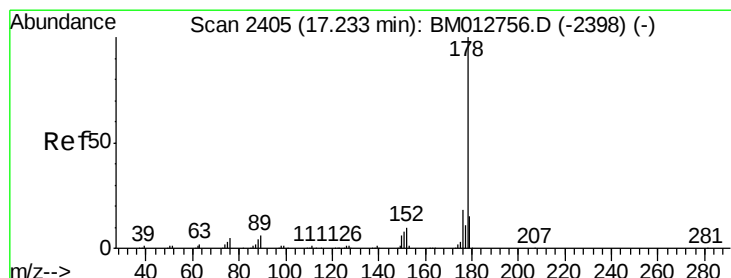
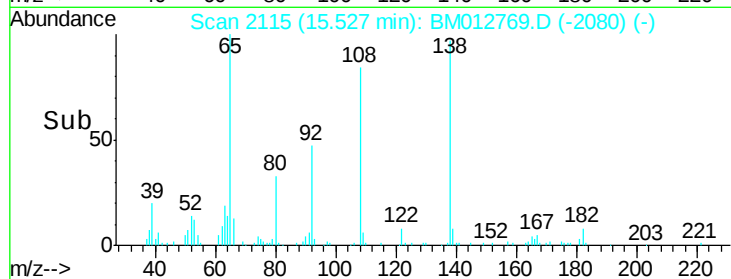
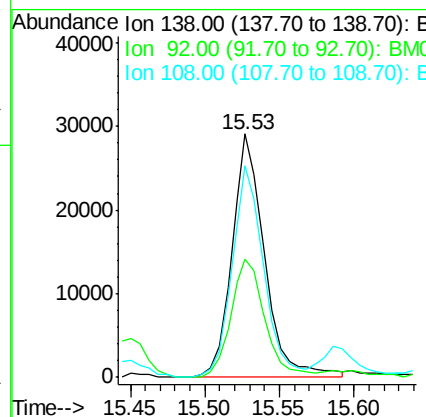
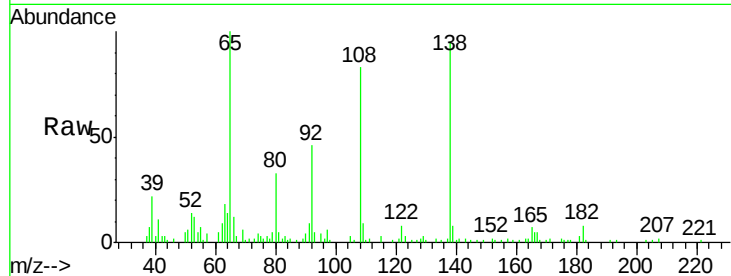
#60  
4-Nitroaniline  
Concen: 7.638 ng/ul  
RT: 15.53 min Scan# 2115  
Delta R.T. 0.01 min  
Lab File: BM012769.D  
Acq: 06 Nov 2017 09:21

Instrument :  
BNA\_M  
ClientSampleId :  
B-12(0-1)-101317

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 92      | 48.7  | 40.6  | 60.8  |
| 108     | 86.7  | 67.0  | 100.6 |

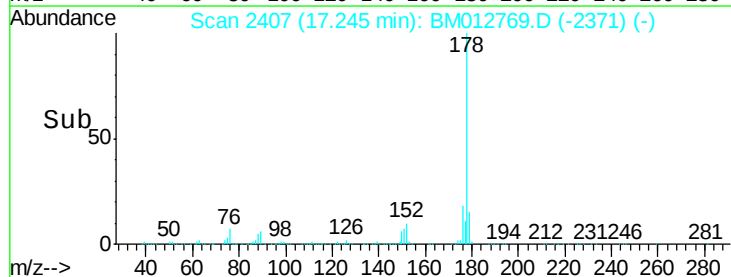
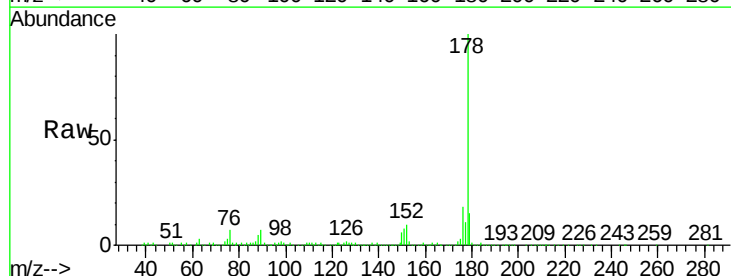
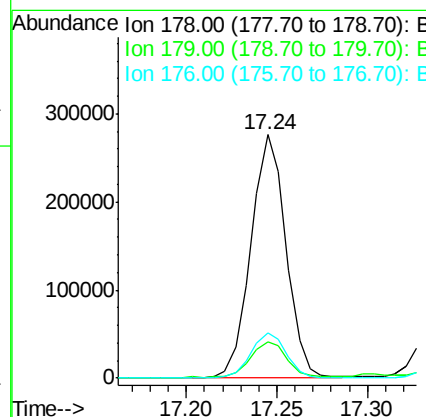
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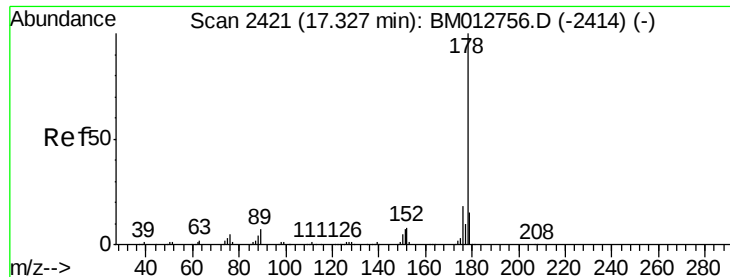
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11/7/2017 5:35:08 PM



#69  
Phenanthrene  
Concen: 8.250 ng/ul  
RT: 17.24 min Scan# 2407  
Delta R.T. 0.01 min  
Lab File: BM012769.D  
Acq: 06 Nov 2017 09:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.1  | 12.2  | 18.4  |
| 176     | 18.4  | 15.6  | 23.4  |





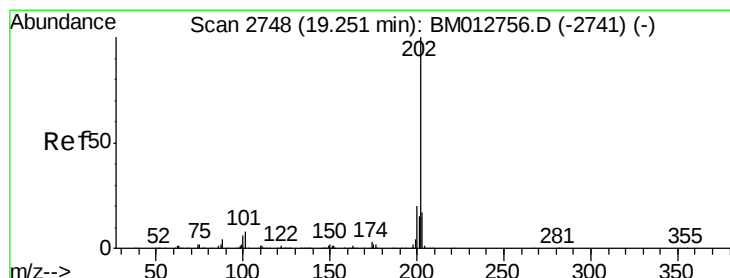
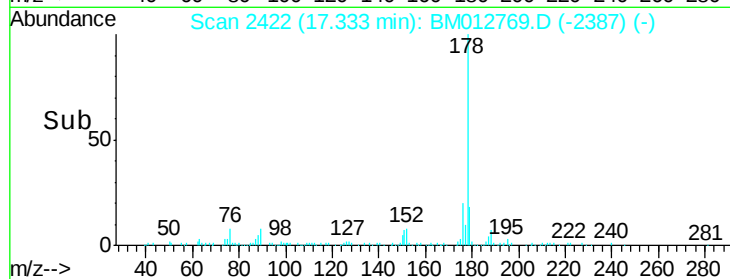
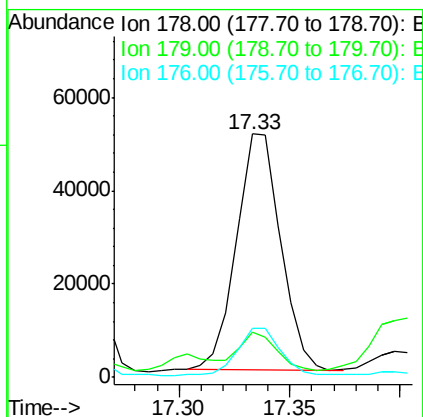
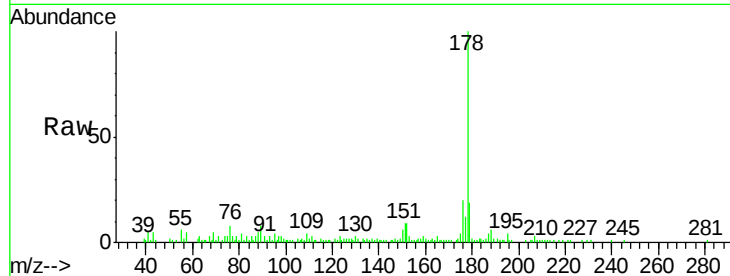
#71  
 Anthracene  
 Concen: 1.529 ng/ul m  
 RT: 17.33 min Scan# 2422  
 Delta R.T. 0.01 min  
 Lab File: BM012769.D  
 Acq: 06 Nov 2017 09:21

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-12(0-1)-101317

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 18.7  | 12.1  | 18.1# |
| 176     | 20.0  | 14.8  | 22.2  |

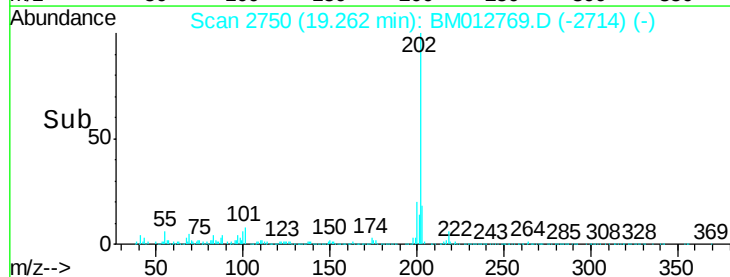
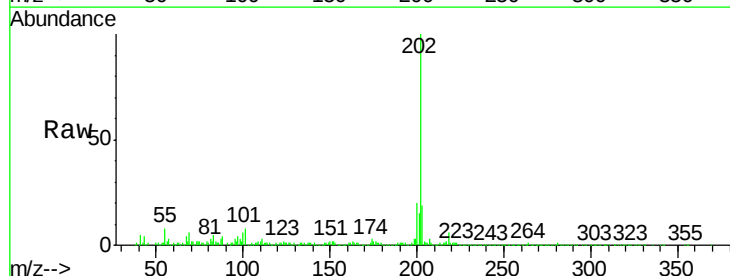
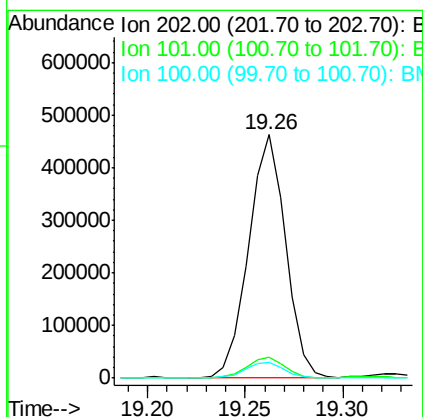
Manual Integrations  
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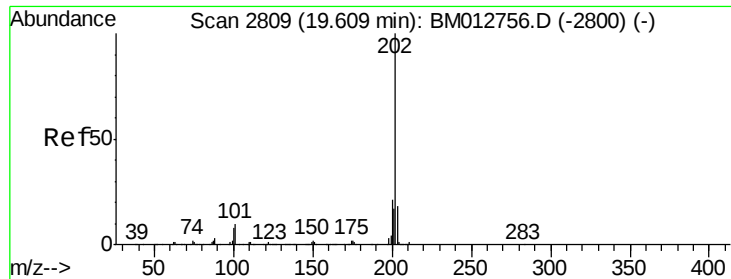
Sohil  
 11/7/2017 5:35:08 PM



#76  
 Fluoranthene  
 Concen: 11.228 ng/ul  
 RT: 19.26 min Scan# 2750  
 Delta R.T. 0.01 min  
 Lab File: BM012769.D  
 Acq: 06 Nov 2017 09:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.5   | 8.8   | 13.2# |
| 100     | 6.3   | 6.6   | 9.8#  |





#79

Pyrene

Concen: 12.904 ng/ul

RT: 19.63 min Scan# 2812

Delta R.T. 0.02 min

Lab File: BM012769.D

Acq: 06 Nov 2017 09:21

Instrument :

BNA\_M

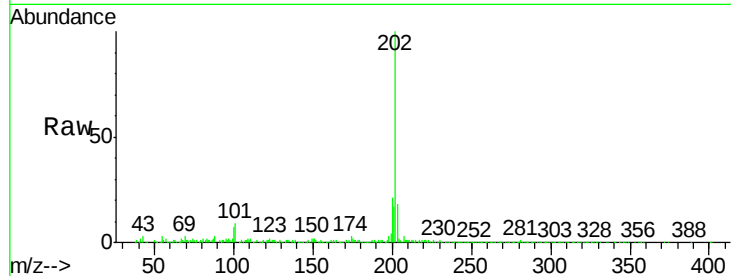
ClientSampleId :

B-12(0-1)-101317

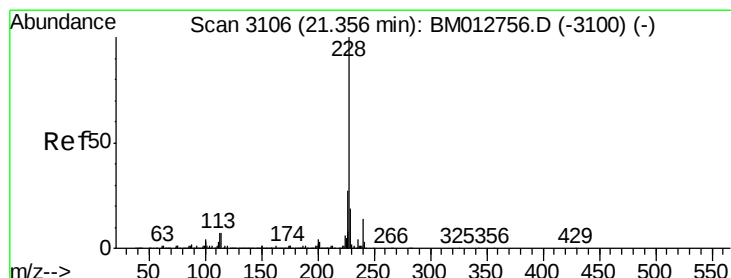
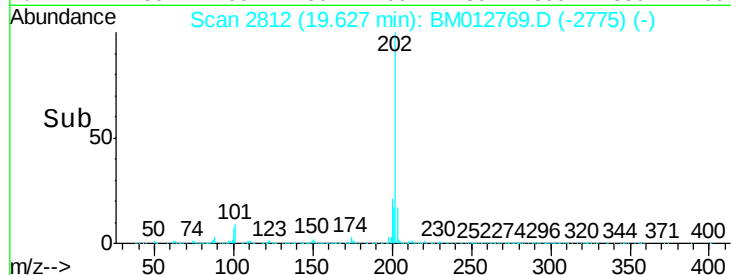
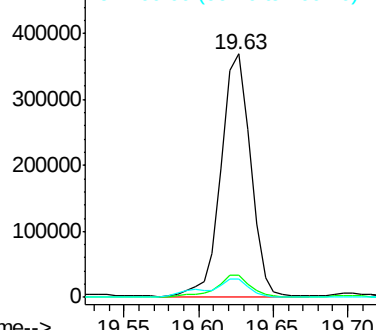
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 504624 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.2   | 10.2  | 15.2#  |
| 100       | 7.5   | 8.5   | 12.7#  |

Manual Integrations  
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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



#82

Benzo(a)anthracene

Concen: 7.772 ng/ul

RT: 21.37 min Scan# 3108

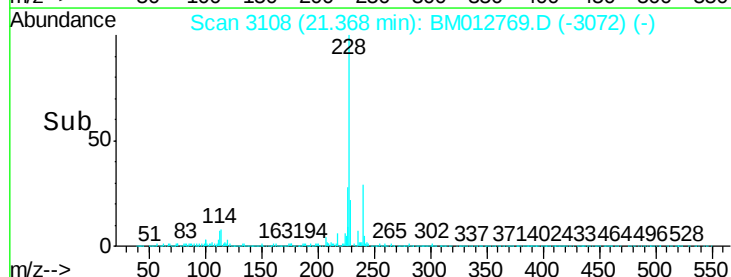
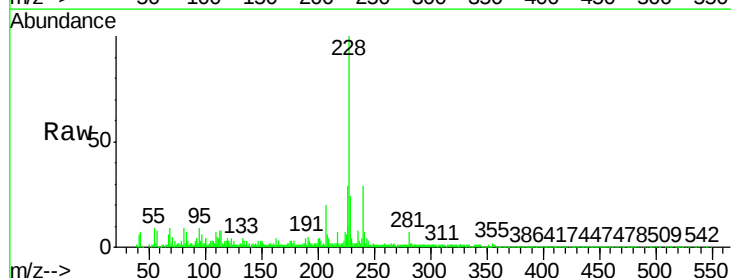
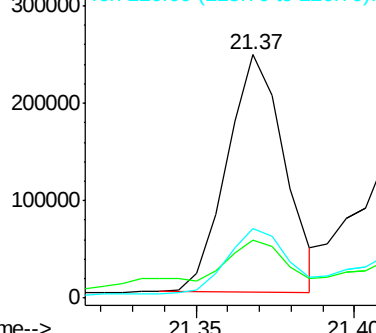
Delta R.T. 0.01 min

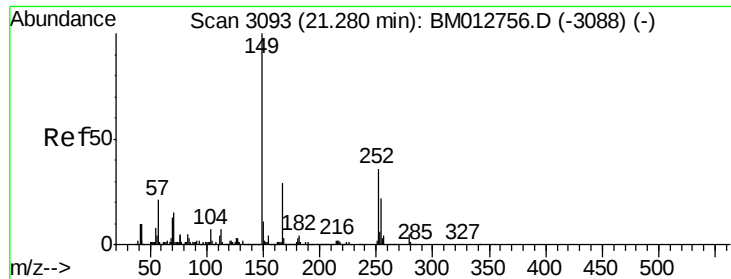
Lab File: BM012769.D

Acq: 06 Nov 2017 09:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 308272 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 23.7  | 15.7  | 23.5#  |
| 226       | 28.6  | 21.8  | 32.6   |

Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 1.345 ng/ul

RT: 21.29 min Scan# 3095

Delta R.T. 0.01 min

Lab File: BM012769.D

Acq: 06 Nov 2017 09:21

Instrument :

BNA\_M

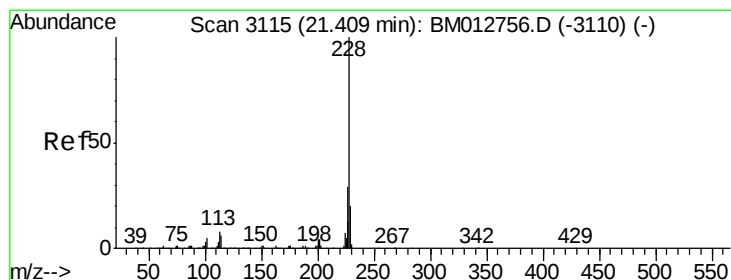
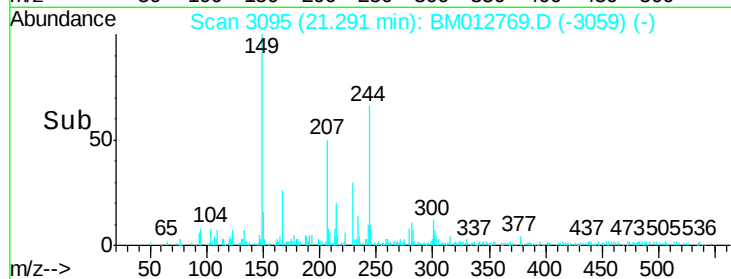
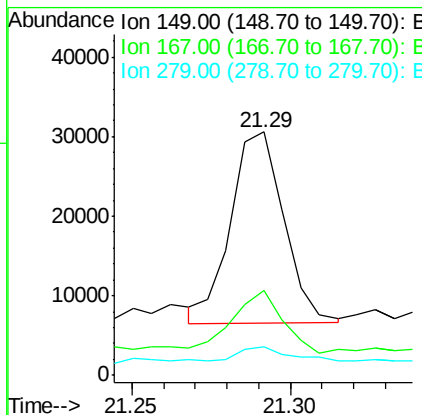
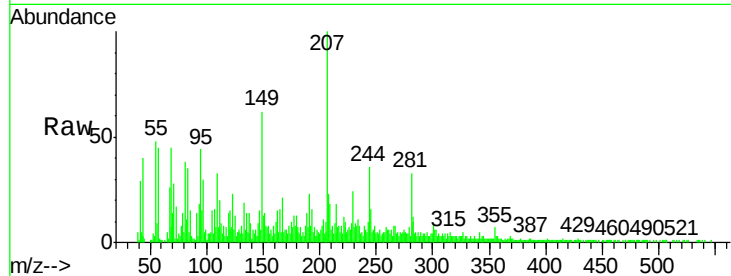
ClientSampleId :

B-12(0-1)-101317

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 27946 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 34.7  | 21.6  | 32.4# |
| 279       | 12.0  | 3.0   | 4.4#  |

Manual Integrations  
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#84

Chrysene

Concen: 10.408 ng/ul

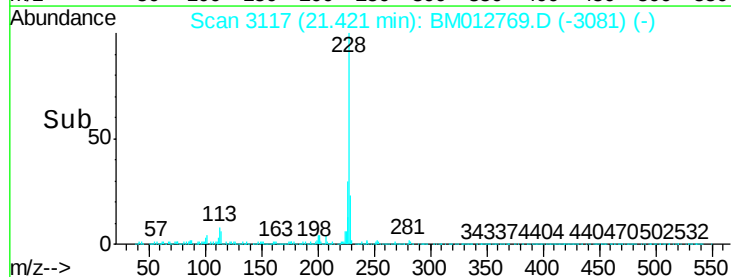
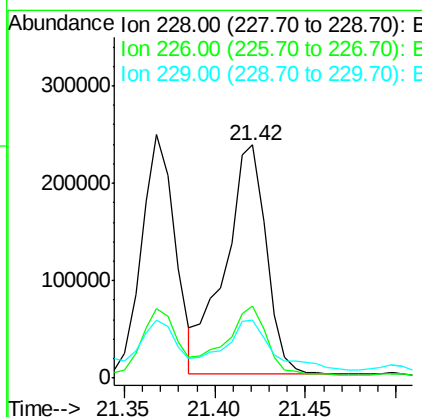
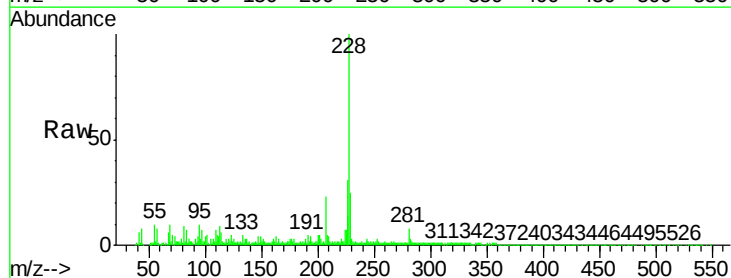
RT: 21.42 min Scan# 3117

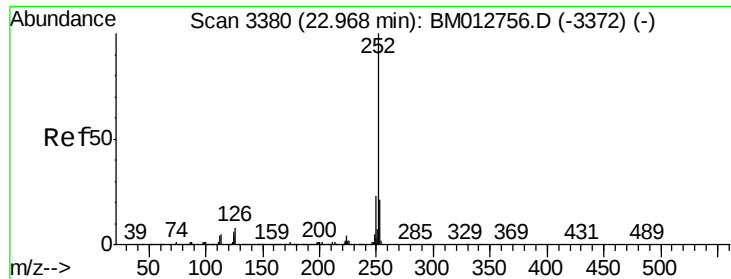
Delta R.T. 0.01 min

Lab File: BM012769.D

Acq: 06 Nov 2017 09:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 374112 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.9  | 24.0  | 36.0   |
| 229       | 24.8  | 15.6  | 23.4#  |





#87

Benzo(b)fluoranthene

Concen: 12.253 ng/ul

RT: 22.99 min Scan# 3384

Delta R.T. 0.02 min

Lab File: BM012769.D

Acq: 06 Nov 2017 09:21

Instrument :

BNA\_M

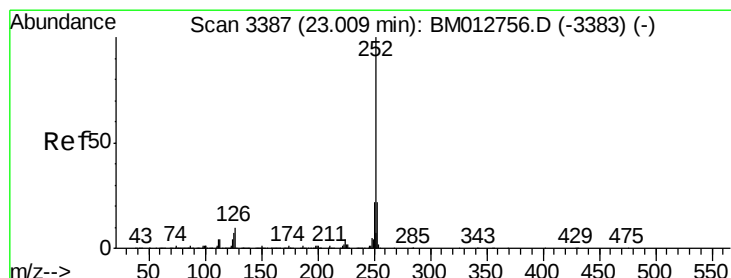
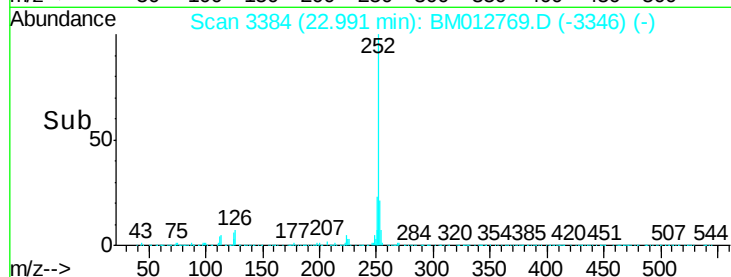
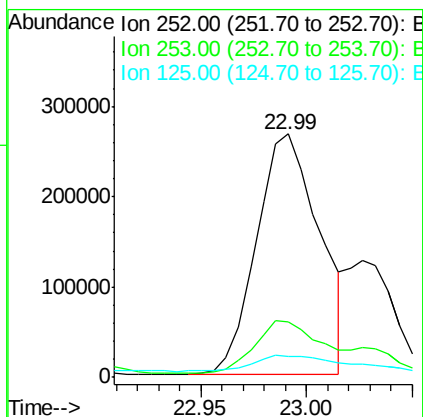
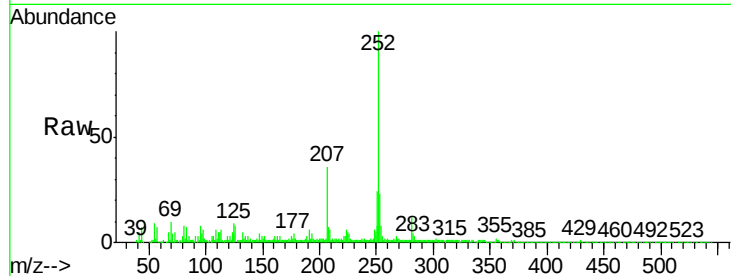
ClientSampleId :

B-12(0-1)-101317

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 554587 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.6  | 17.5  | 26.3   |
| 125       | 8.8   | 8.5   | 12.7   |

Manual Integrations  
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#88

Benzo(k)fluoranthene

Concen: 4.488 ng/ul m

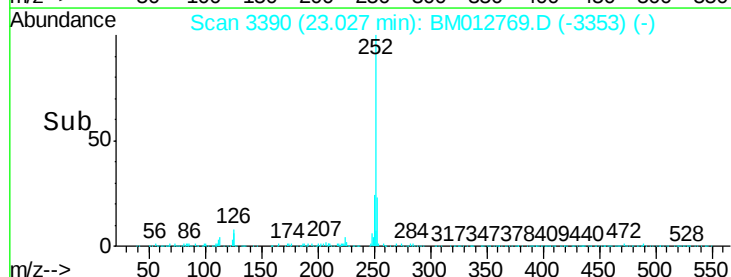
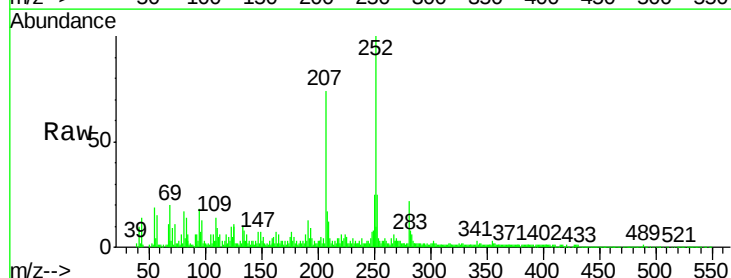
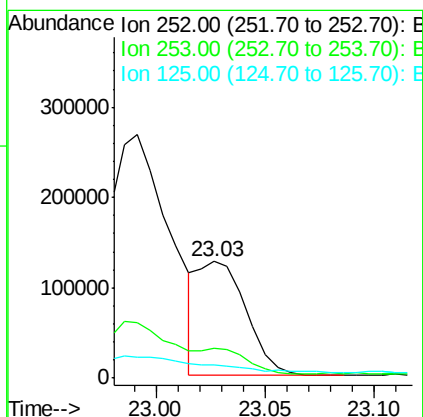
RT: 23.03 min Scan# 3390

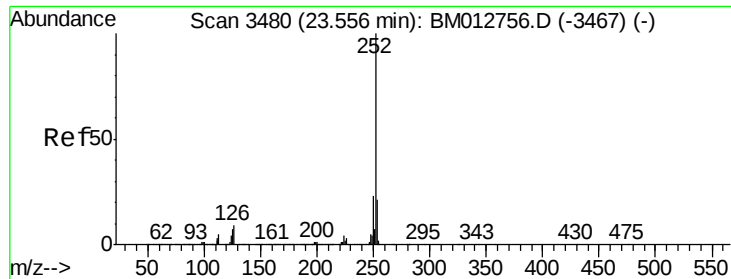
Delta R.T. 0.02 min

Lab File: BM012769.D

Acq: 06 Nov 2017 09:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 193086 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 25.5  | 17.3  | 25.9   |
| 125       | 11.1  | 8.2   | 12.2   |





#90

Benzo(a)pyrene

Concen: 8.435 ng/ul

RT: 23.58 min Scan# 3484

Delta R.T. 0.02 min

Lab File: BM012769.D

Acq: 06 Nov 2017 09:21

Instrument :

BNA\_M

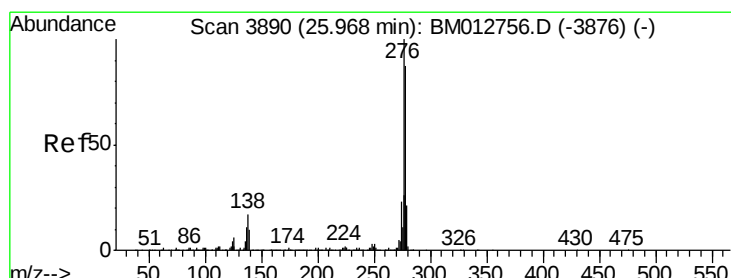
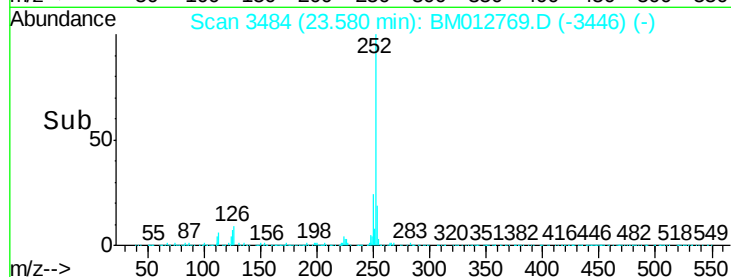
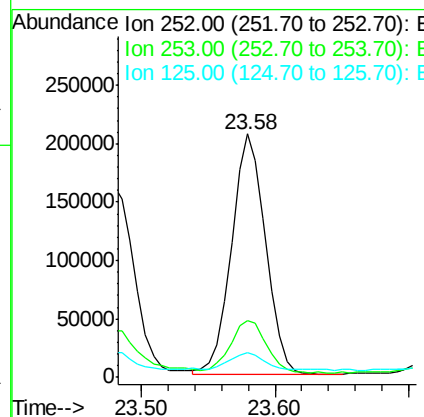
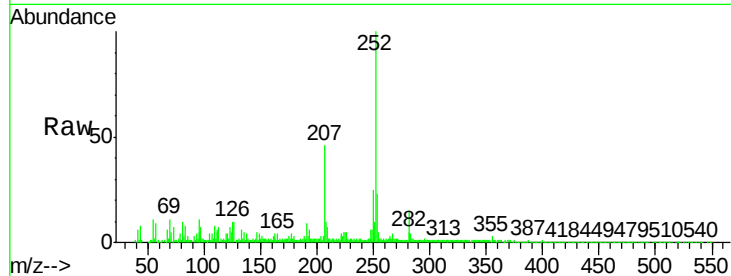
ClientSampleId :

B-12(0-1)-101317

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 363284 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.3  | 17.2  | 25.8   |
| 125       | 10.4  | 9.0   | 13.6   |

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#91

Indeno(1,2,3-cd)pyrene

Concen: 6.272 ng/ul

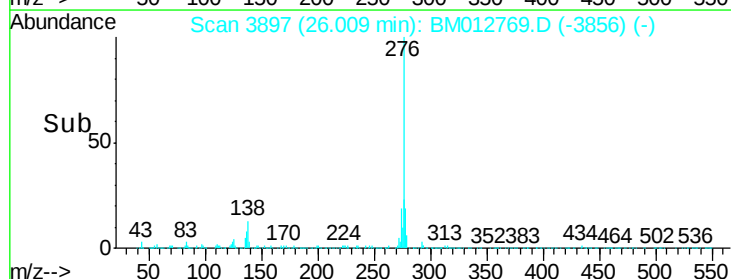
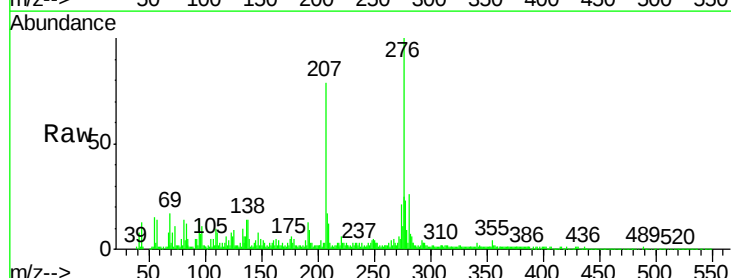
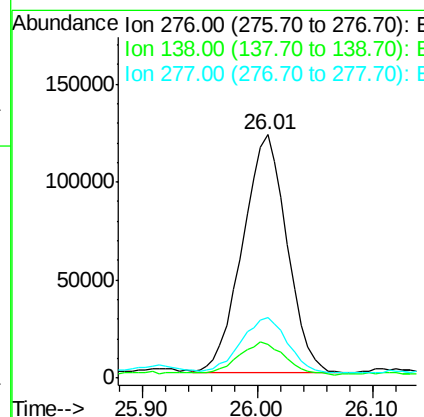
RT: 26.01 min Scan# 3897

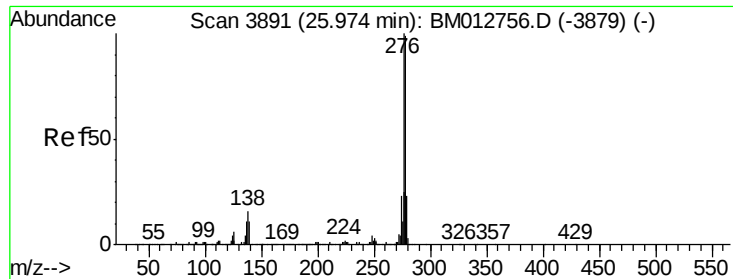
Delta R.T. 0.04 min

Lab File: BM012769.D

Acq: 06 Nov 2017 09:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 325533 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 14.0  | 22.3  | 33.5#  |
| 277       | 25.0  | 20.2  | 30.2   |





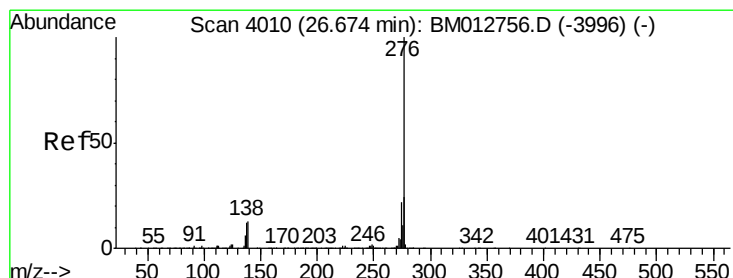
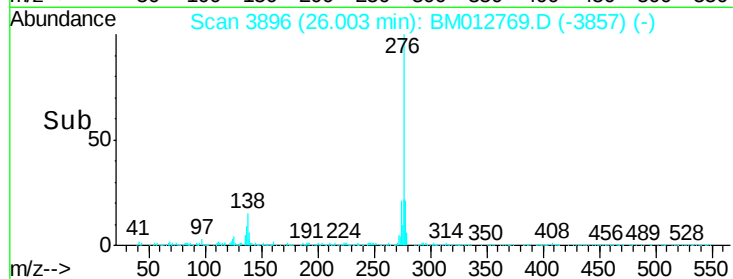
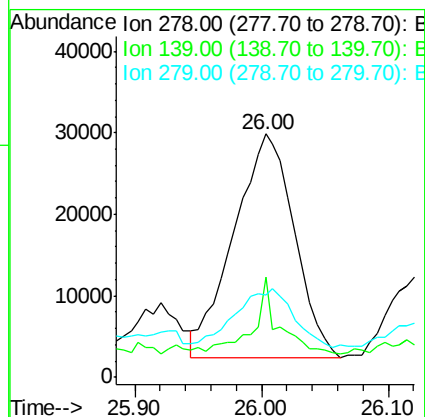
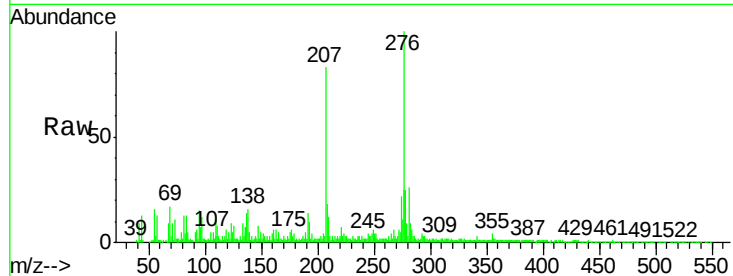
#92  
Dibenzo(a,h)anthracene  
Concen: 2.064 ng/ul  
RT: 26.00 min Scan# 3896  
Delta R.T. 0.03 min  
Lab File: BM012769.D  
Acq: 06 Nov 2017 09:21

Instrument :  
BNA\_M  
ClientSampleId :  
B-12(0-1)-101317

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 41.3  | 13.9  | 20.9# |
| 279     | 33.9  | 19.0  | 28.4# |

Manual Integrations  
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#93  
Benzo(g,h,i)perylene  
Concen: 6.829 ng/ul  
RT: 26.72 min Scan# 4018  
Delta R.T. 0.05 min  
Lab File: BM012769.D  
Acq: 06 Nov 2017 09:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.2  | 18.9  | 28.3# |
| 277     | 25.8  | 19.2  | 28.8  |

