

Data Path : Z:\HPCHEM1\BNA M\DATA\BM100417\  
 Data File : BM011901.D  
 Acq On : 04 Oct 2017 21:42  
 Operator : SJ/JU  
 Sample : I5414-05  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B0BK6

Manual Integrations  
 APPROVED

Sohil  
 10/5/2017 6:17:50 PM

Quant Time: Oct 05 07:29:36 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Oct 05 07:08:17 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.87  | 152  | 343208   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.68 | 136  | 1534278  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.52 | 164  | 968164   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.26 | 188  | 2298812  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.43 | 240  | 2291088  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.76 | 264  | 1955003  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.29  | 96  | 17531   | 2.42  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.03  | 99  | 408699  | 13.84 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.20  | 67  | 243272  | 13.92 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.40  | 132 | 356038  | 15.03 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.57  | 113 | 340213  | 13.33 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.04  | 128 | 167536  | 15.33 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.76  | 143 | 191019  | 15.52 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.30 | 165 | 386258  | 15.53 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.82 | 131 | 291127  | 10.73 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.92 | 166 | 1298691 | 15.48 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.21 | 160 | 1570068 | 15.92 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.71 | 143 | 135902m | 9.27  | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.51 | 176 | 1172184 | 15.83 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.63 | 200 | 148180  | 9.58  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.36 | 188 | 1892758 | 16.71 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.64 | 212 | 2187859 | 21.17 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.61 | 264 | 1570569 | 16.70 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         | Ovalue |        |
|--------------------------------|-------|-----|---------|--------|--------|
| 6) Phenol                      | 7.06  | 94  | 29563m  | 1.012  | ng/ul  |
| 44) Dimethylphthalate          | 13.97 | 163 | 463398  | 5.740  | ng/ul  |
| 69) Phenanthrene               | 17.30 | 178 | 672340  | 5.317  | ng/ul  |
| 74) Fluoranthene               | 19.31 | 202 | 1395883 | 9.048  | ng/ul# |
| 77) Pyrene                     | 19.67 | 202 | 1153745 | 9.082  | ng/ul# |
| 80) Benzo(a)anthracene         | 21.41 | 228 | 419990  | 3.200  | ng/ul  |
| 81) Bis(2-ethylhexyl)phthalate | 21.33 | 149 | 125910  | 1.701  | ng/ul  |
| 82) Chrysene                   | 21.46 | 228 | 616244  | 4.942  | ng/ul  |
| 85) Benzo(b)fluoranthene       | 23.05 | 252 | 590940  | 4.973  | ng/ul# |
| 86) Benzo(k)fluoranthene       | 23.09 | 252 | 223829m | 1.887  | ng/ul  |
| 88) Benzo(a)pyrene             | 23.66 | 252 | 313199  | 2.743  | ng/ul# |
| 89) Indeno(1,2,3-cd)pyrene     | 26.13 | 276 | 238648  | 1.953  | ng/ul# |
| 91) Benzo(g,h,i)perylene       | 26.87 | 276 | 195922  | 1.938  | ng/ul# |

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

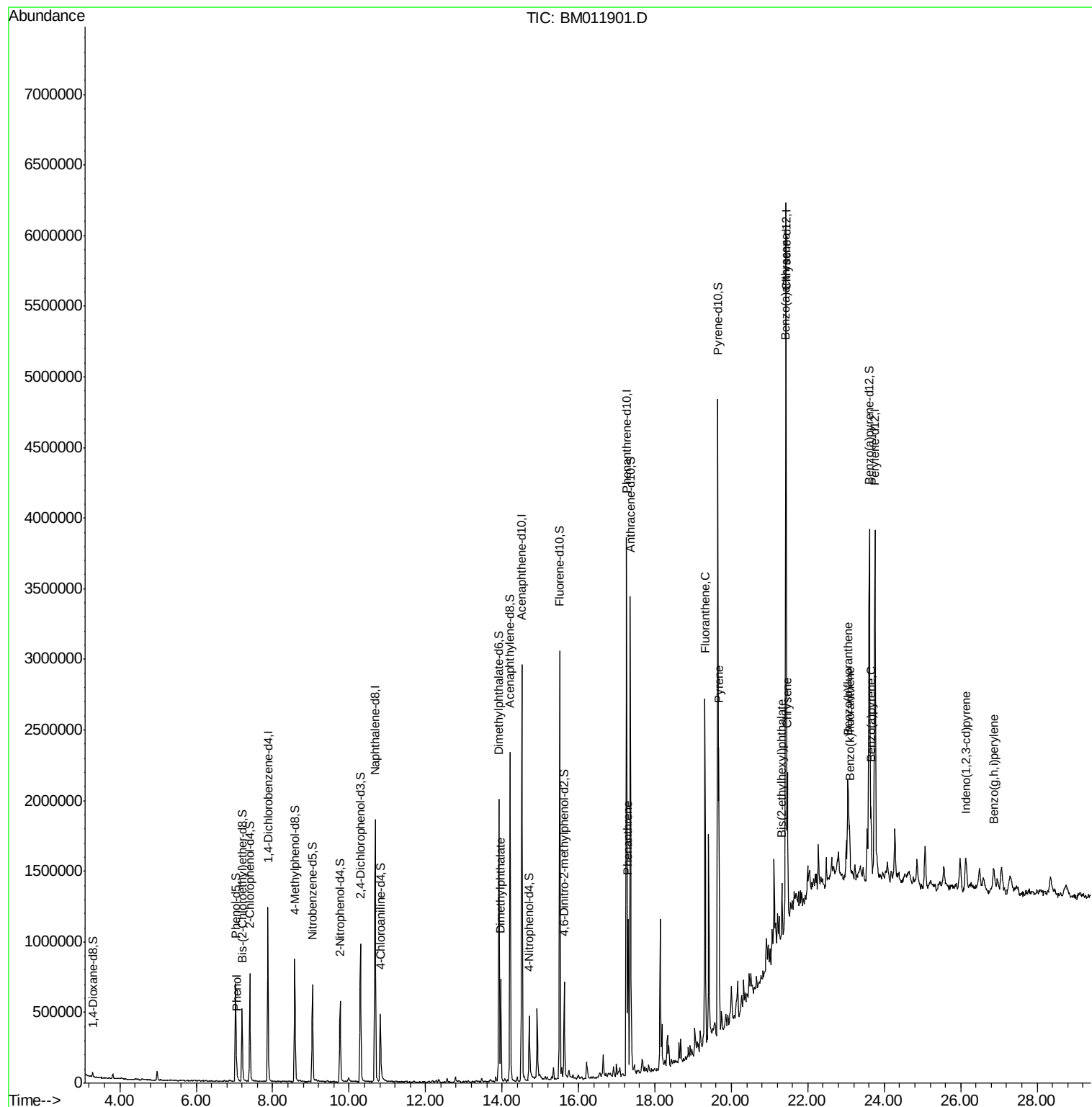
Data Path : Z:\HPCHEM1\BNA M\DATA\BM100417\  
Data File : BM011901.D  
Acq On : 04 Oct 2017 21:42  
Operator : SJ/JU  
Sample : I5414-05  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

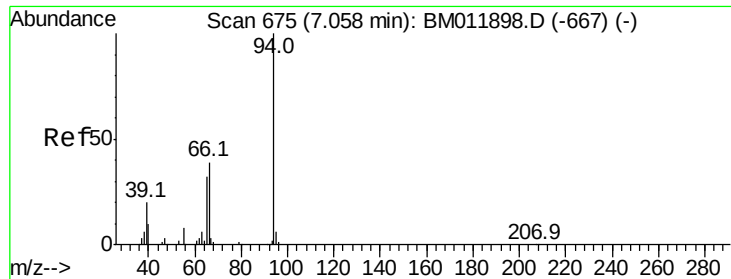
Instrument :  
BNA\_M  
ClientSampled :  
B0BK6

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Quant Time: Oct 05 07:29:36 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Oct 05 07:08:17 2017  
Response via : Initial Calibration





#6

Phenol

Concen: 1.012 ng/ul m

RT: 7.06 min Scan# 675

Delta R.T. -0.00 min

Lab File: BM011901.D

Acq: 04 Oct 2017 21:42

Instrument :

BNA\_M

ClientSampleId :

B0BK6

Tot Ion: 94 Resp: 29563

Ion Ratio Lower Upper

94 100

65 34.2 28.2 42.4

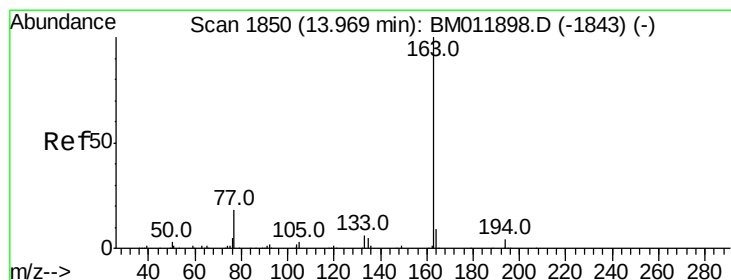
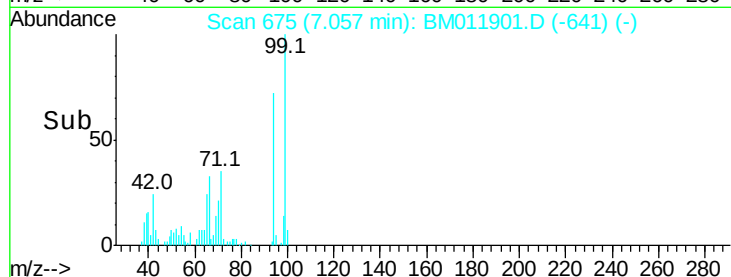
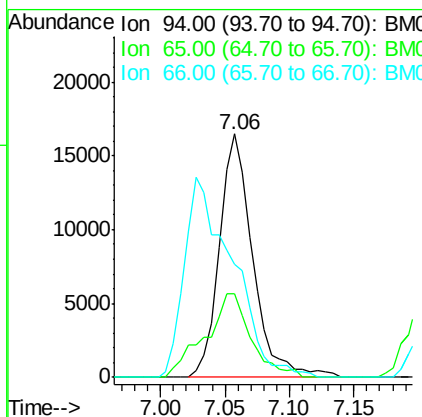
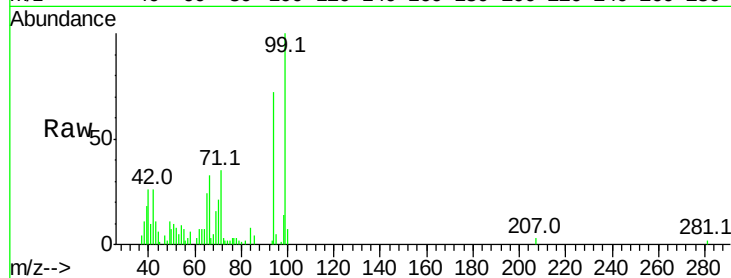
66 46.3 47.2 70.8#

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#44

Dimethylphthalate

Concen: 5.740 ng/ul

RT: 13.97 min Scan# 1850

Delta R.T. -0.00 min

Lab File: BM011901.D

Acq: 04 Oct 2017 21:42

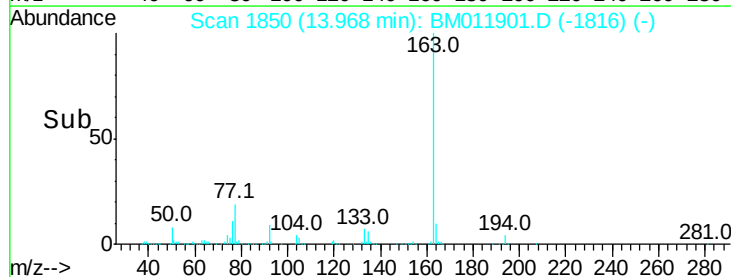
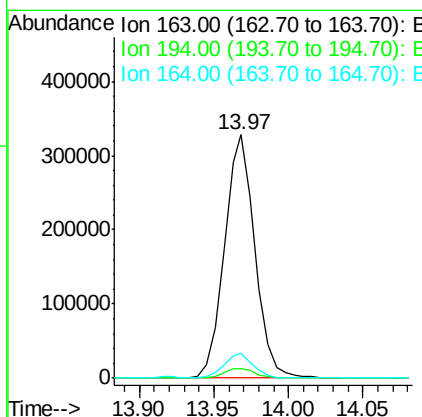
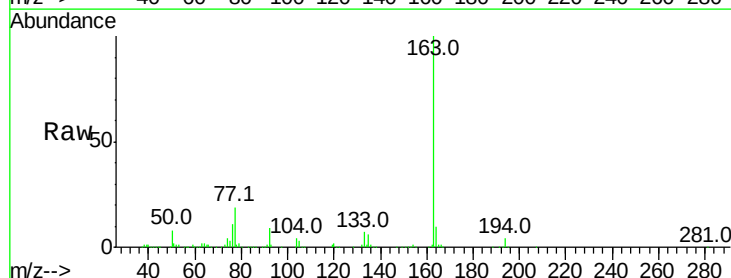
Tgt Ion:163 Resp: 463398

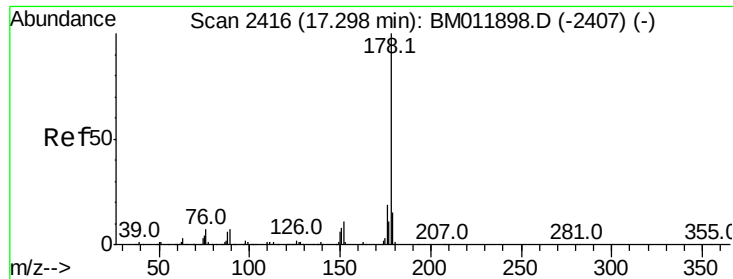
Ion Ratio Lower Upper

163 100

194 4.0 3.5 5.3

164 10.2 8.2 12.4





#69

Phenanthrene

Concen: 5.317 ng/ul

RT: 17.30 min Scan# 2416

Delta R.T. -0.00 min

Lab File: BM011901.D

Acq: 04 Oct 2017 21:42

Instrument :

BNA\_M

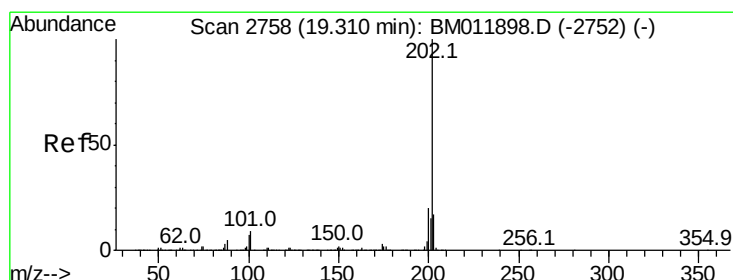
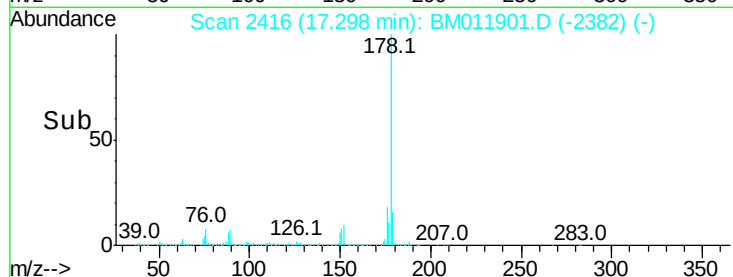
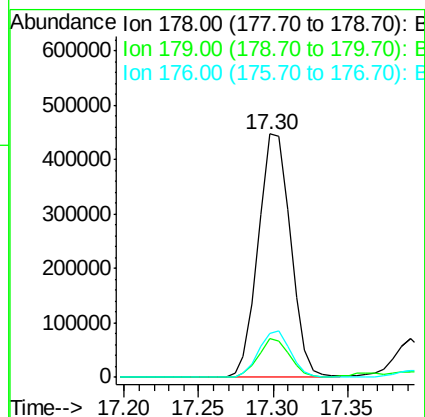
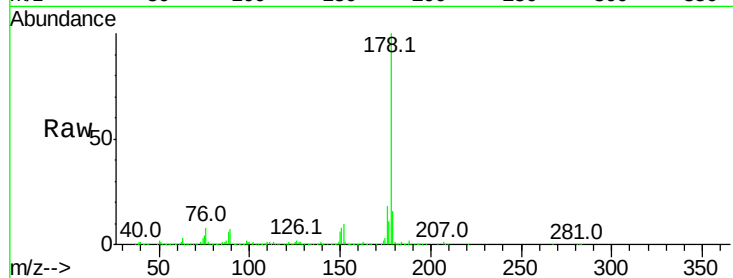
ClientSampleId :

B0BK6

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 672340 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.7  | 12.6  | 19.0   |
| 176       | 18.0  | 14.9  | 22.3   |

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#74

Fluoranthene

Concen: 9.048 ng/ul

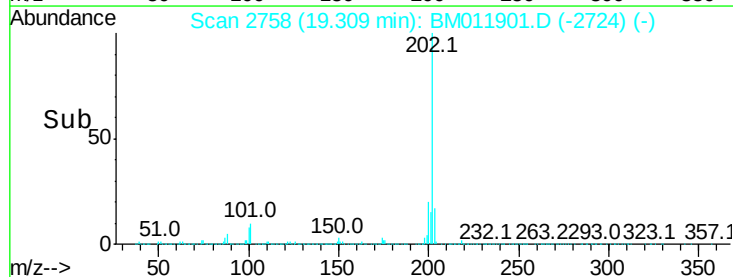
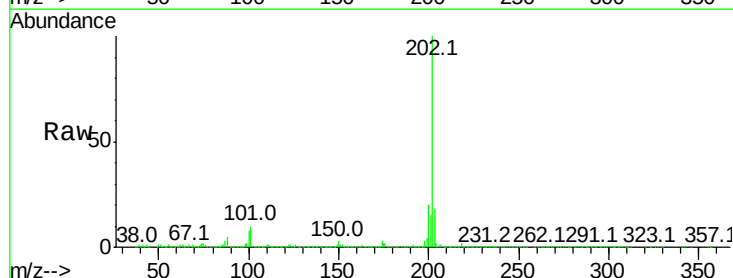
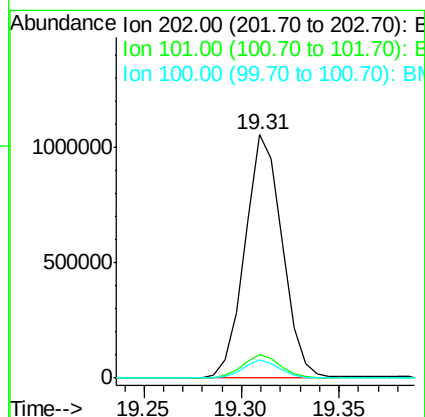
RT: 19.31 min Scan# 2758

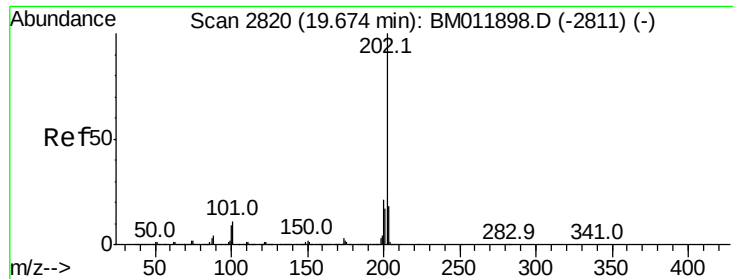
Delta R.T. -0.00 min

Lab File: BM011901.D

Acq: 04 Oct 2017 21:42

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1395883 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 9.8   | 4.6   | 7.0#    |
| 100       | 7.6   | 3.4   | 5.2#    |





#77

Pvrene

Concen: 9.082 ng/ul

RT: 19.67 min Scan# 2820

Delta R.T. -0.00 min

Lab File: BM011901.D

Acq: 04 Oct 2017 21:42

Instrument :

BNA\_M

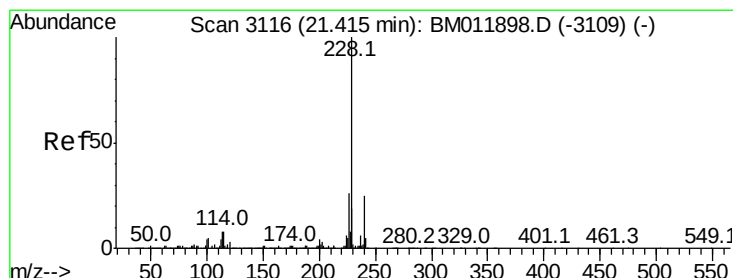
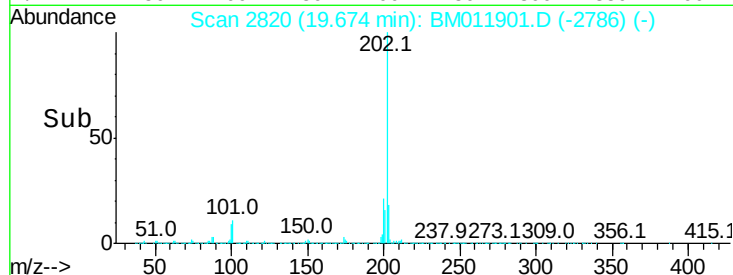
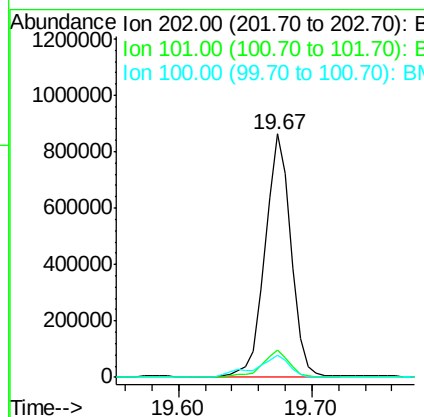
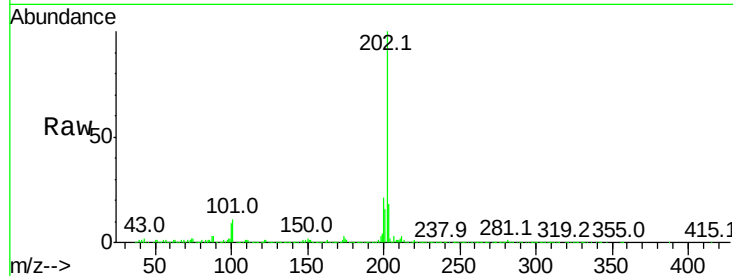
ClientSampled :

B0BK6

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 1153745 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 11.0  | 5.1   | 7.7#    |
| 100       | 8.9   | 4.9   | 7.3#    |

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#80

Benzo(a)anthracene

Concen: 3.200 ng/ul

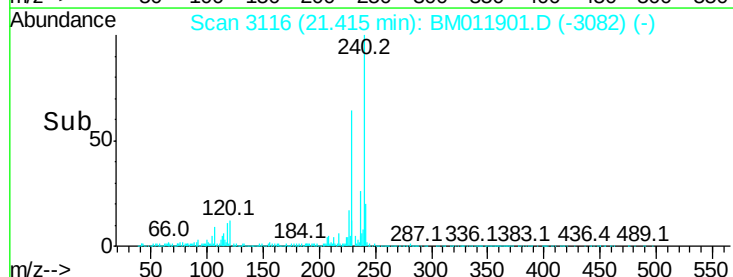
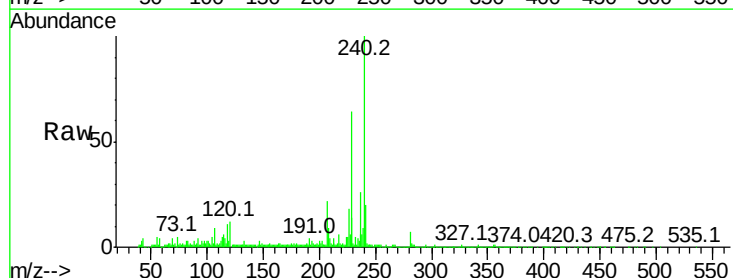
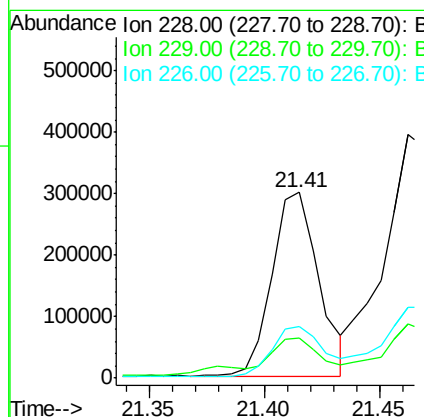
RT: 21.41 min Scan# 3116

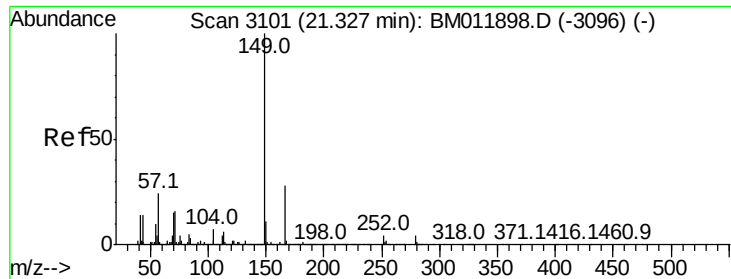
Delta R.T. -0.00 min

Lab File: BM011901.D

Acq: 04 Oct 2017 21:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 419990 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 21.6  | 15.4  | 23.0   |
| 226       | 28.1  | 21.4  | 32.0   |





#81

Bis(2-ethylhexyl)phthalate

Concen: 1.701 ng/ul

RT: 21.33 min Scan# 3101

Delta R.T. -0.00 min

Lab File: BM011901.D

Acq: 04 Oct 2017 21:42

Instrument :

BNA\_M

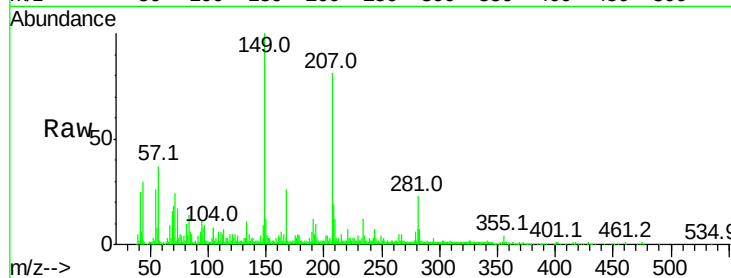
ClientSampleId :

B0BK6

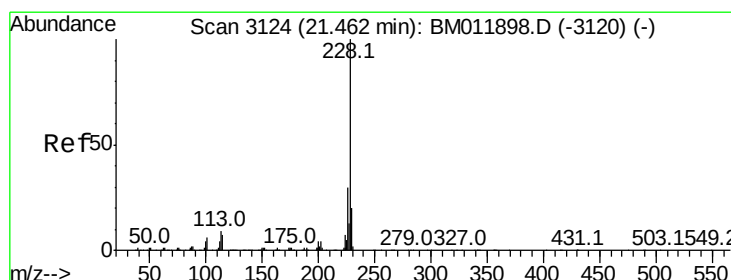
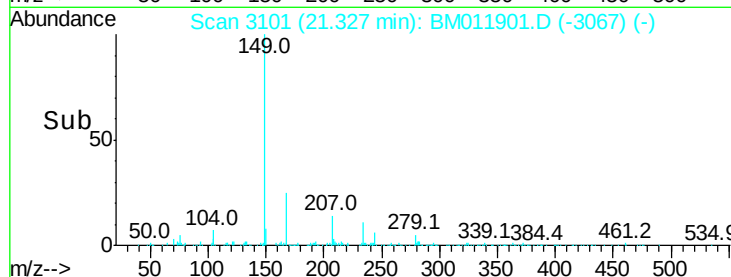
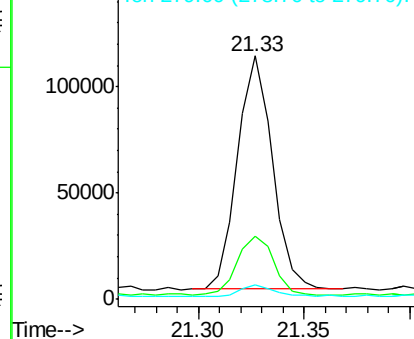
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 149   | Resp: | 125910 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 26.1  | 22.8  | 34.2   |
| 279       | 5.8   | 4.9   | 7.3    |

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Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E



#82

Chrysene

Concen: 4.942 ng/ul

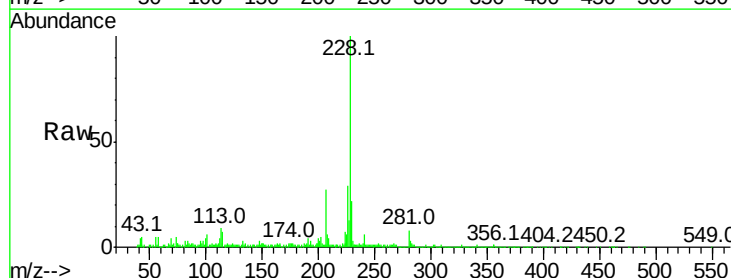
RT: 21.46 min Scan# 3124

Delta R.T. -0.00 min

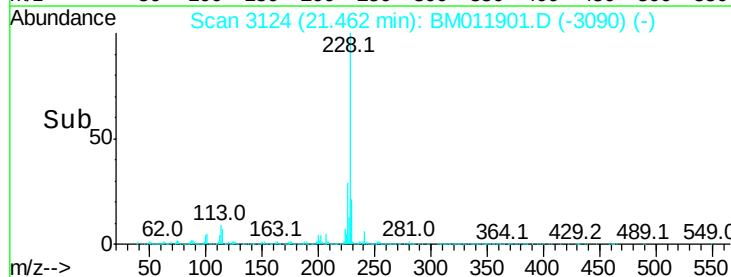
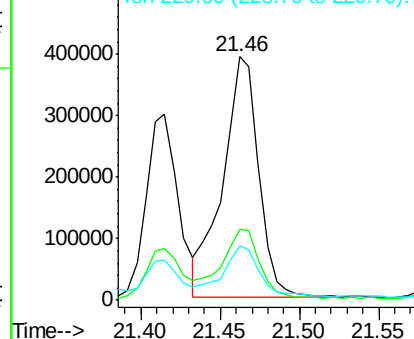
Lab File: BM011901.D

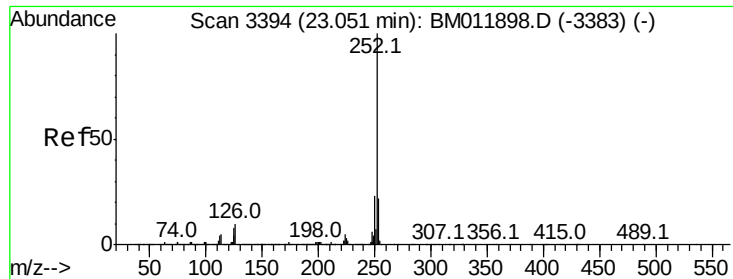
Acq: 04 Oct 2017 21:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 616244 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.3  | 23.4  | 35.2   |
| 229       | 22.0  | 15.5  | 23.3   |



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





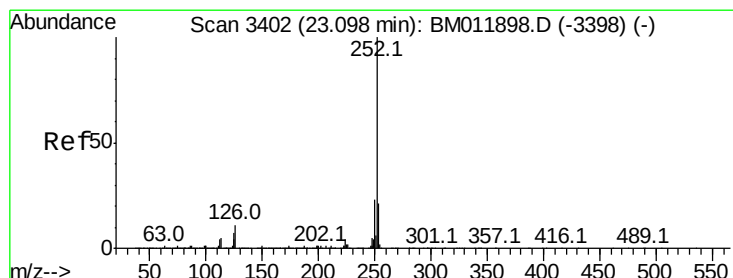
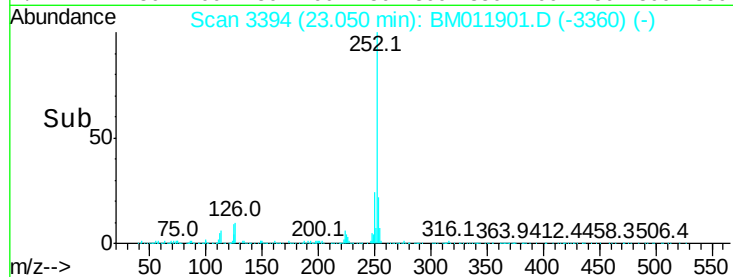
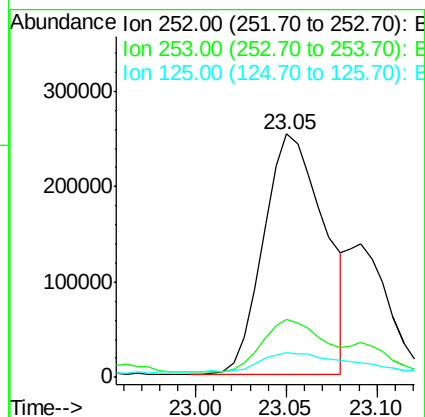
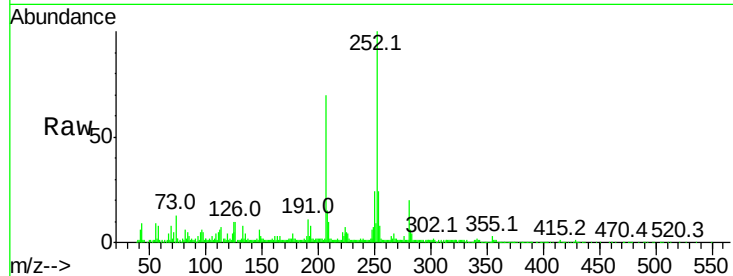
#85  
Benzo(b)fluoranthene  
Concen: 4.973 ng/ul  
RT: 23.05 min Scan# 3394  
Delta R.T. -0.00 min  
Lab File: BM011901.D  
Acq: 04 Oct 2017 21:42

Instrument :  
BNA\_M  
ClientSampleId :  
B0BK6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 17.9  | 26.9  |
| 125     | 10.3  | 3.6   | 5.4   |

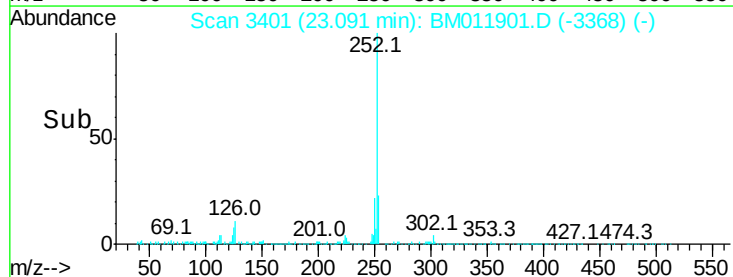
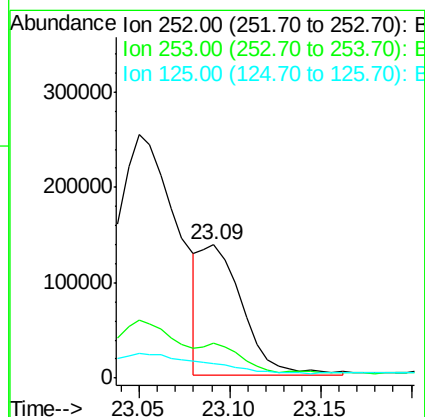
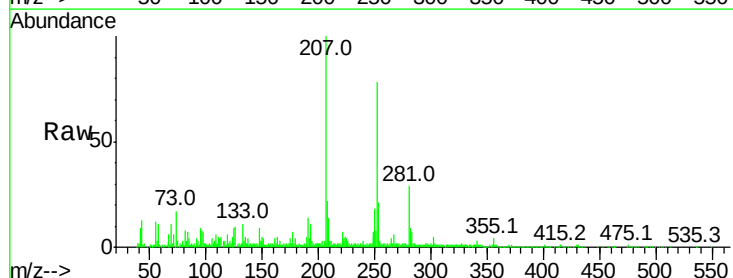
Manual Integrations  
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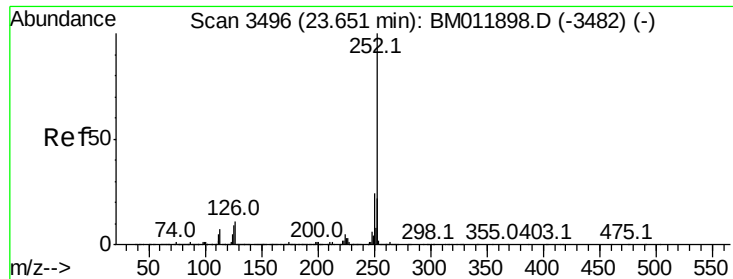
Sohil  
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#86  
Benzo(k)fluoranthene  
Concen: 1.887 ng/ul m  
RT: 23.09 min Scan# 3401  
Delta R.T. -0.01 min  
Lab File: BM011901.D  
Acq: 04 Oct 2017 21:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.2  | 17.1  | 25.7  |
| 125     | 11.3  | 3.4   | 5.2   |





#88

Benzo(a)pyrene

Concen: 2.743 ng/ul

RT: 23.66 min Scan# 3497

Delta R.T. 0.01 min

Lab File: BM011901.D

Acq: 04 Oct 2017 21:42

Instrument :

BNA\_M

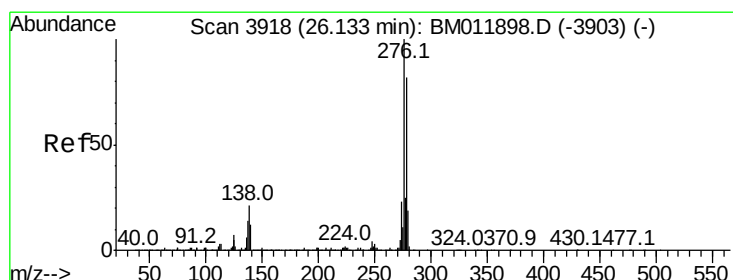
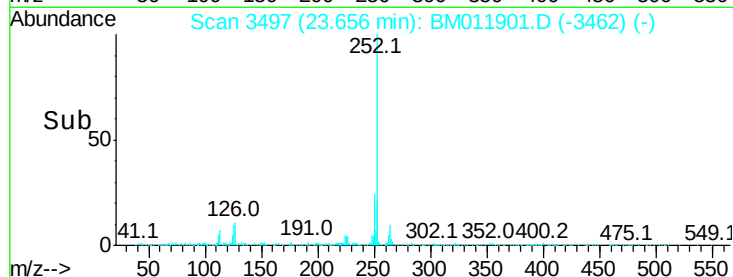
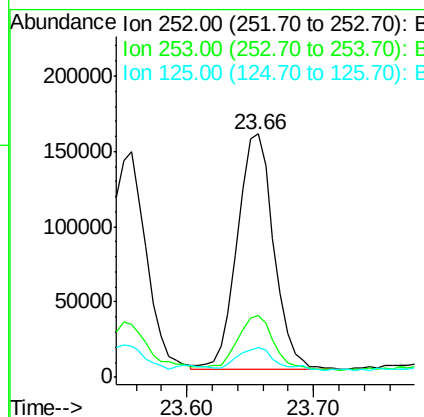
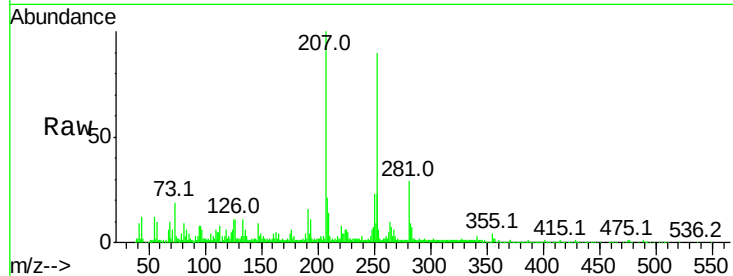
ClientSampleId :

B0BK6

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 313199 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 25.3  | 18.2  | 27.2   |
| 125       | 12.4  | 4.0   | 6.0#   |

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#89

Indeno(1,2,3-cd)pyrene

Concen: 1.953 ng/ul

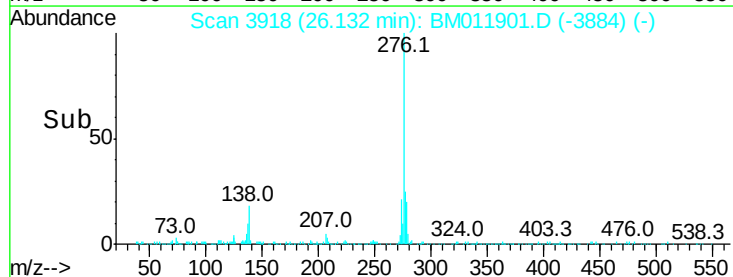
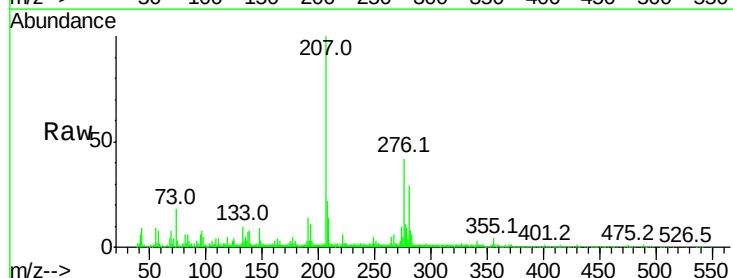
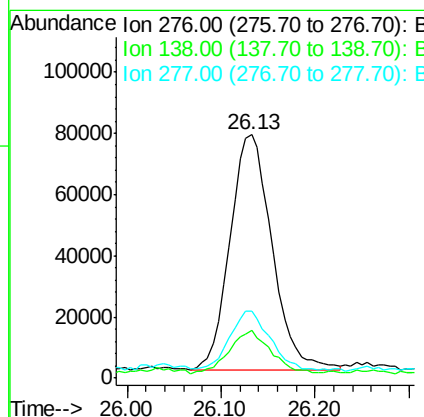
RT: 26.13 min Scan# 3918

Delta R.T. -0.00 min

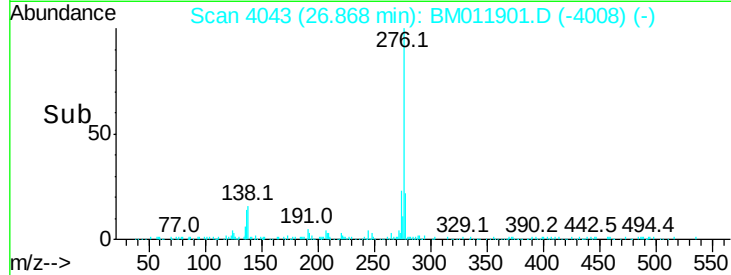
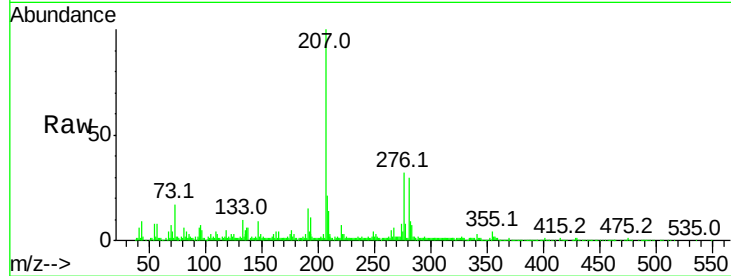
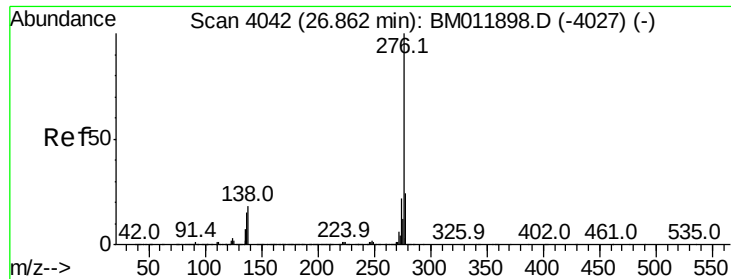
Lab File: BM011901.D

Acq: 04 Oct 2017 21:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 238648 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 19.8  | 9.3   | 13.9#  |
| 277       | 27.3  | 19.9  | 29.9   |







#91  
 Benzo(a,h,i)perylene  
 Concen: 1.938 ng/ul  
 RT: 26.87 min Scan# 4043  
 Delta R.T. 0.01 min  
 Lab File: BM011901.D  
 Acq: 04 Oct 2017 21:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 195922 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 17.8  | 8.5   | 12.7#  |
| 277       | 25.6  | 18.6  | 28.0   |

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B0BK6

Manual Integrations  
 APPROVED

Sohil  
 10/5/2017 6:17:50 PM

