

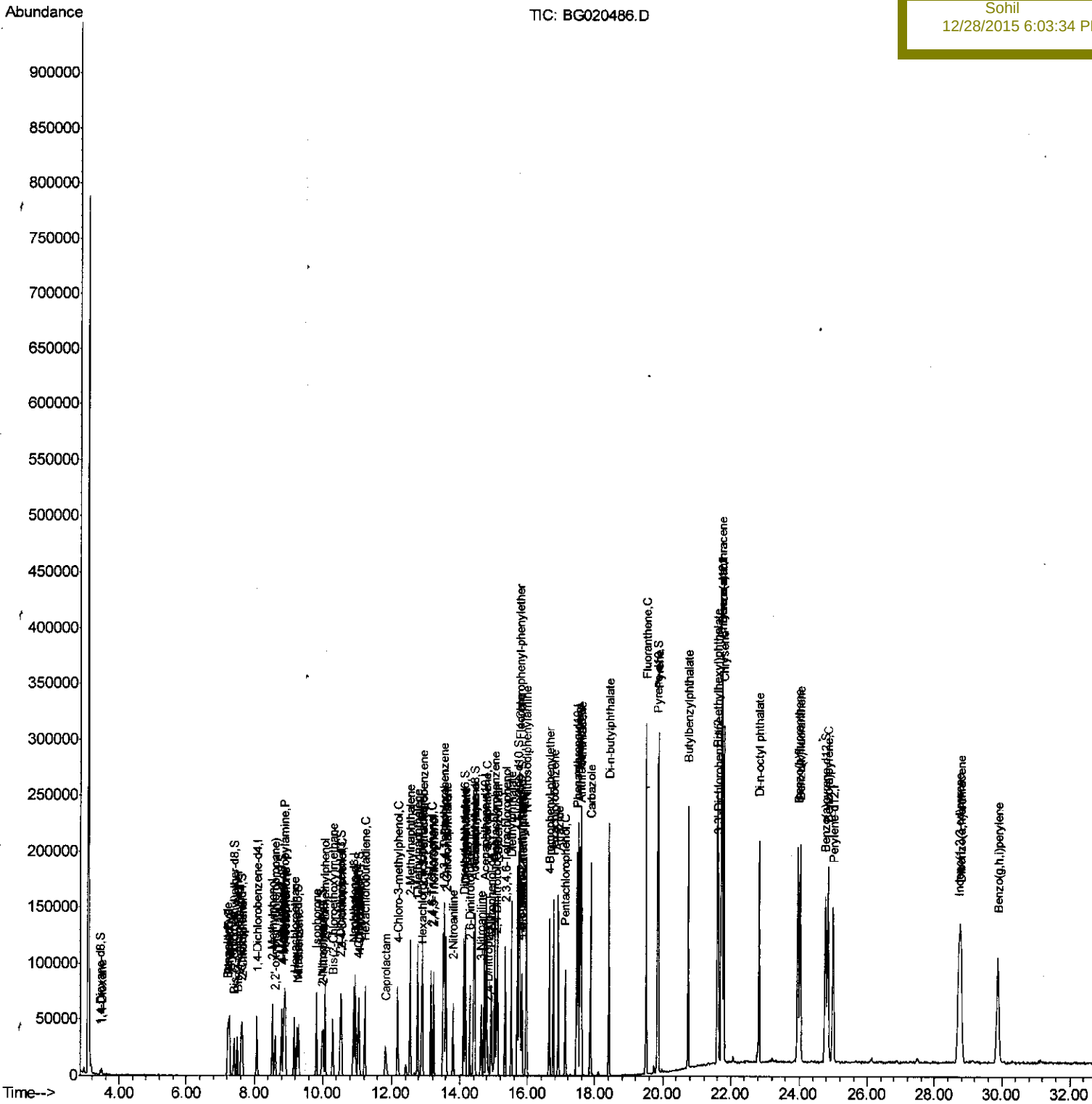
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Data Path : Z:\HPCHEM1\BNA_G\Data\BG122415\  
Data File : BG020486.D  
Acq On    : 24 Dec 2015   23:46  
Operator  : UM/SJ  
Sample    : SSTDCCC020  
Misc      :  
ALS Vial  : 2      Sample Multiplier: 1
```

Quant Time: Dec 25 03:06:50 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG122415.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Dec 25 02:19:33 2015  
Response via : Initial Calibration

**Instrument :**  
BNA\_G  
**LabSampleId :**  
SSTD02024

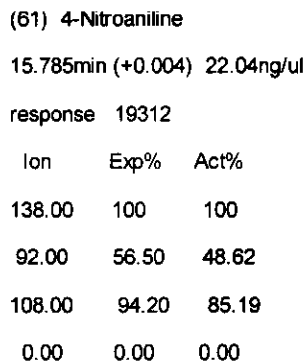
## Manual Integrations

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Quant Time: Dec 25 02:24:19 2015  
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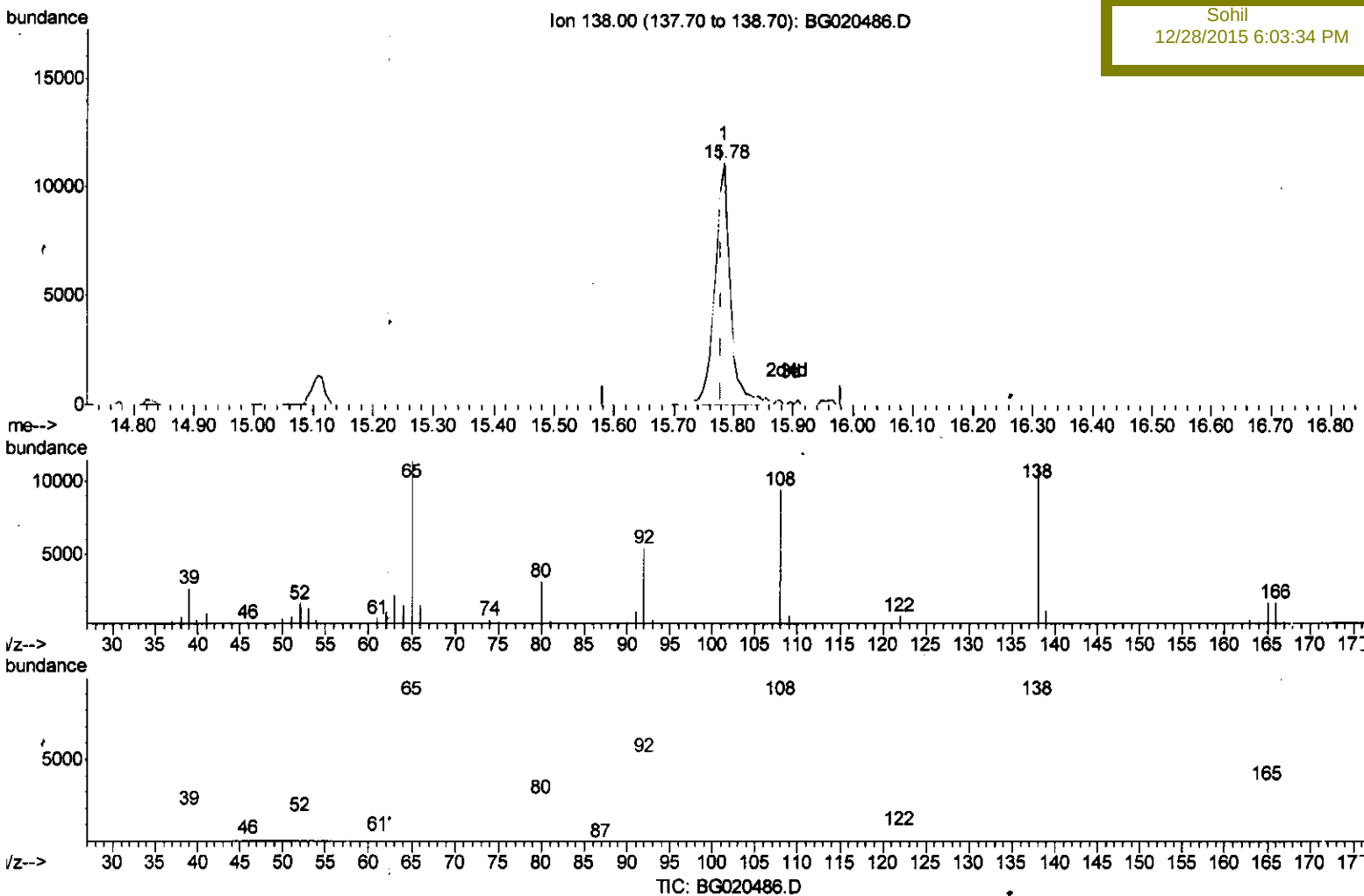
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Manual Integrations  
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(61) 4-Nitroaniline

15.785min (+0.004) 22.59ng/ul m

response 19795

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 138.00 | 100   | 100   |
| 92.00  | 56.50 | 48.62 |
| 108.00 | 94.20 | 85.19 |
| 0.00   | 0.00  | 0.00  |

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Manual Integrations  
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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 35) 1-Methylnaphthalene        | 12.76 | 142  | 56234    | 22.27 | ng/ul  | 95       |
| 37) 1,2,4,5-Tetrachlorobenzene | 12.91 | 216  | 43481    | 21.67 | ng/ul  | 98       |
| 38) Hexachlorocyclopentadiene  | 12.88 | 237  | 20509    | 18.74 | ng/ul  | 98       |
| 39) 2,4,6-Trichlorophenol      | 13.15 | 196  | 26547    | 22.28 | ng/ul  | 99       |
| 40) 2,4,5-Trichlorophenol      | 13.23 | 196  | 30049    | 23.05 | ng/ul  | 93       |
| 41) 1,1'-Biphenyl              | 13.55 | 154  | 82174    | 21.48 | ng/ul# | 96       |
| 42) 2-Chloronaphthalene        | 13.59 | 162  | 65756    | 21.30 | ng/ul  | 98       |
| 43) 2-Nitroaniline             | 13.80 | 65   | 18990    | 21.94 | ng/ul# | 85       |
| 45) Dimethylphthalate          | 14.16 | 163  | 90705    | 21.84 | ng/ul  | 99       |
| 46) 2,6-Dinitrotoluene         | 14.29 | 165  | 18800    | 22.25 | ng/ul  | 99       |
| 48) Acenaphthylene             | 14.44 | 152  | 108863   | 21.88 | ng/ul  | 100      |
| 49) 3-Nitroaniline             | 14.62 | 138  | 17664    | 22.65 | ng/ul  | 92       |
| 50) Acenaphthene               | 14.77 | 153  | 72350    | 21.51 | ng/ul  | 99       |
| 51) 2,4-Dinitrophenol          | 14.83 | 184  | 7812     | 14.45 | ng/ul# | 87       |
| 53) 4-Nitrophenol              | 14.93 | 109  | 12714    | 20.63 | ng/ul  | 94       |
| 54) Dibenzofuran               | 15.11 | 168  | 109790   | 21.94 | ng/ul  | 98       |
| 55) 2,4-Dinitrotoluene         | 15.07 | 165  | 27861    | 22.06 | ng/ul  | 91       |
| 56) 2,3,4,6-Tetrachlorophenol  | 15.34 | 232  | 28882    | 22.50 | ng/ul# | 93       |
| 57) Diethylphthalate           | 15.52 | 149  | 92276    | 21.64 | ng/ul  | 98       |
| 59) Fluorene                   | 15.76 | 166  | 87816    | 21.65 | ng/ul  | 96       |
| 60) 4-Chlorophenyl-phenylether | 15.74 | 204  | 50978    | 21.72 | ng/ul  | 98       |
| 61) 4-Nitroaniline             | 15.78 | 138  | 19795m   | 22.59 | ng/ul  |          |
| 64) 4,6-Dinitro-2-methylphenol | 15.84 | 198  | 16317    | 17.74 | ng/ul  | 93       |
| 65) N-Nitrosodiphenylamine     | 15.96 | 169  | 80204    | 21.97 | ng/ul  | 98       |
| 66) 4-Bromophenyl-phenylether  | 16.64 | 248  | 35111    | 21.63 | ng/ul  | 100      |
| 67) Hexachlorobenzene          | 16.76 | 284  | 38586    | 21.25 | ng/ul# | 87       |
| 68) Atrazine                   | 16.91 | 200  | 35095    | 21.70 | ng/ul  | 98       |
| 69) Pentachlorophenol          | 17.11 | 266  | 19858    | 20.21 | ng/ul  | 95       |
| 70) Phenanthrene               | 17.50 | 178  | 155944   | 21.46 | ng/ul  | 99       |
| 72) Anthracene                 | 17.59 | 178  | 162678   | 21.90 | ng/ul  | 99       |
| 73) 1,2,3,4-Tetrachlorobenzene | 13.52 | 216  | 46298    | 21.24 | ng/uL  | 98       |
| 74) Pentachlorobenzene         | 15.03 | 250  | 43990    | 21.76 | ng/uL  | 92       |
| 75) Carbazole                  | 17.86 | 167  | 139805   | 22.33 | ng/ul  | 98       |
| 76) Di-n-butylphthalate        | 18.41 | 149  | 160523   | 21.51 | ng/ul  | 99       |
| 77) Fluoranthene               | 19.50 | 202  | 204313   | 22.36 | ng/ul  | 98       |
| 80) Pyrene                     | 19.87 | 202  | 205416   | 22.08 | ng/ul  | 98       |
| 81) Butylbenzylphthalate       | 20.74 | 149  | 74227    | 22.44 | ng/ul  | 91       |
| 82) 3,3'-Dichlorobenzidine     | 21.62 | 252  | 63959    | 19.86 | ng/ul  | 96       |
| 83) Benzo(a)anthracene         | 21.71 | 228  | 209997   | 21.74 | ng/ul  | 99       |
| 84) Bis(2-ethylhexyl)phthalate | 21.60 | 149  | 106830   | 22.08 | ng/ul  | 100      |
| 85) Chrysene                   | 21.78 | 228  | 202203   | 21.98 | ng/ul  | 100      |
| 87) Di-n-octyl phthalate       | 22.82 | 149  | 185123   | 22.09 | ng/ul  | 100      |
| 88) Benzo(b)fluoranthene       | 23.95 | 252  | 209396   | 21.55 | ng/ul  | 98       |
| 89) Benzo(k)fluoranthene       | 24.02 | 252  | 203871   | 21.70 | ng/ul  | 98       |
| 91) Benzo(a)pyrene             | 24.84 | 252  | 201859   | 21.61 | ng/ul  | 99       |
| 92) Indeno(1,2,3-cd)pyrene     | 28.72 | 276  | 241905   | 21.62 | ng/ul  | 94       |
| 93) Dibenzo(a,h)anthracene     | 28.78 | 278  | 202321   | 21.79 | ng/ul  | 99       |
| 94) Benzo(g,h,i)perylene       | 29.88 | 276  | 197966   | 21.55 | ng/ul  | 99       |

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Manual Integrations  
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| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.08  | 152  | 15719    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.90 | 136  | 67568    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.71 | 164  | 49572    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.46 | 188  | 130580   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.73 | 240  | 164487   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.99 | 264  | 161897   | 20.00 | ng/ul | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.45  | 96  | 2708   | 9.50  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.24  | 99  | 27767  | 22.02 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.40  | 67  | 16330  | 21.85 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.61  | 132 | 22063  | 22.80 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.79  | 113 | 24182  | 22.79 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.25  | 128 | 11758  | 22.20 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.97  | 143 | 13869  | 23.03 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.51 | 165 | 26156  | 22.44 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.03 | 131 | 30903  | 23.21 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.11 | 166 | 88441  | 21.65 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.41 | 160 | 102208 | 21.59 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.92 | 143 | 13860  | 20.35 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.70 | 176 | 80391  | 21.76 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.82 | 200 | 15515  | 17.93 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.55 | 188 | 133020 | 21.75 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.84 | 212 | 157963 | 22.18 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.77 | 264 | 177825 | 21.73 | ng/ul | 0.00 |

#### Target Compounds

|                                |       |     |       |       |        | Qvalue |
|--------------------------------|-------|-----|-------|-------|--------|--------|
| 2) 1,4-Dioxane                 | 3.48  | 88  | 2944  | 9.01  | ng/uL# | 95     |
| 4) Benzaldehyde                | 7.21  | 77  | 17701 | 23.15 | ng/ul  | 97     |
| 6) Phenol                      | 7.27  | 94  | 29750 | 22.65 | ng/ul  | 96     |
| 8) Bis(2-Chloroethyl)ether     | 7.49  | 93  | 21240 | 22.18 | ng/ul  | 92     |
| 10) 2-Chlorophenol             | 7.64  | 128 | 23367 | 23.13 | ng/ul  | 93     |
| 11) 2-Methylphenol             | 8.53  | 108 | 22717 | 22.28 | ng/ul  | 93     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.61  | 45  | 27779 | 22.39 | ng/ul  | 95     |
| 14) Acetophenone               | 8.90  | 105 | 38113 | 22.41 | ng/ul  | 96     |
| 15) N-Nitroso-di-n-propylamine | 8.88  | 70  | 20021 | 23.29 | ng/ul  | 99     |
| 16) 4-Methylphenol             | 8.85  | 108 | 25695 | 23.23 | ng/ul  | 99     |
| 17) Hexachloroethane           | 9.16  | 117 | 9937  | 23.30 | ng/ul  | 90     |
| 20) Nitrobenzene               | 9.29  | 77  | 28421 | 21.52 | ng/ul  | 95     |
| 21) Isophorone                 | 9.81  | 82  | 55969 | 22.44 | ng/ul  | 98     |
| 23) 2-Nitrophenol              | 10.00 | 139 | 14192 | 22.31 | ng/ul  | 97     |
| 24) 2,4-Dimethylphenol         | 10.06 | 107 | 30649 | 22.68 | ng/ul  | 98     |
| 25) Bis(2-Chloroethoxy)methane | 10.29 | 93  | 30067 | 21.69 | ng/ul  | 99     |
| 27) 2,4-Dichlorophenol         | 10.54 | 162 | 27563 | 23.06 | ng/ul  | 97     |
| 28) Naphthalene                | 10.94 | 128 | 79396 | 22.10 | ng/ul  | 99     |
| 30) 4-Chloroaniline            | 11.05 | 127 | 30834 | 22.97 | ng/ul  | 98     |
| 31) Hexachlorobutadiene        | 11.23 | 225 | 21846 | 21.88 | ng/ul  | 94     |
| 32) Caprolactam                | 11.82 | 113 | 8667  | 22.54 | ng/ul  | 93     |
| 33) 4-Chloro-3-methylphenol    | 12.18 | 107 | 29411 | 23.48 | ng/ul  | 90     |
| 34) 2-Methylnaphthalene        | 12.55 | 142 | 58772 | 22.11 | ng/ul  | 100    |

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| Internal Standards                                                         | R.T. | Q | Ion | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|---|-----|----------|------|-------|----------|
| -----                                                                      |      |   |     |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |   |     |          |      |       |          |