

**New Mexico Department of Health, Scientific Laboratory Division
Method 8270D (SLD Method 756: OCPs)
Minimum Detection Limit Determination
Eleven Replicates at 1.0 ug/L for all analytes**

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Instrument: Saturn II (Varian Saturn 2100 / Varian CP-3800 w/1177 injector / CP-8400 autosampler)

All QC data are located in the Index Folders OR-200900209, Batch 022

| 8270D Analytes | Control Sample MS Files and Analysis Dates (MDL Data, all on-column quantitations are ug/L) | | | | | | | | | | | Statistical Results | | | |
|-------------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|----------------|-------|--------------------|
| | 0227ocp04 | 0227ocp05 | 0227ocp06 | 0227ocp07 | 0303ocp02 | 0303ocp03 | 0303ocp04 | 0303ocp05 | 0304ocp02 | 0304ocp03 | 0304ocp04 | Ave. (ug/L) | Stand. Dev. | RSD | Detection Limit |
| | 2/27/09 | 2/27/09 | 2/27/09 | 2/27/09 | 3/3/09 | 3/3/09 | 3/3/09 | 3/3/09 | 3/4/09 | 3/4/09 | 3/4/09 | | | | |
| MDL-1 | MDL-2 | MDL-3 | MDL-4 | MDL-5 | MDL-6 | MDL-7 | MDL-8 | MDL-9 | MDL-10 | MDL-11 | | | | | |
| alpha BHC | 1.01 | 1.00 | 0.98 | 0.95 | 0.97 | 0.88 | 0.90 | 0.92 | 0.91 | 0.88 | 0.92 | 0.94 | 0.046 | 4.9% | 0.128 ug/L |
| Simazine | 0.48 | 0.42 | 0.42 | 0.37 | 0.44 | 0.32 | 0.30 | 0.36 | 0.38 | 0.35 | 0.32 | 0.38 | 0.056 | 14.9% | 0.156 ug/L |
| Atrazine | 0.48 | 0.48 | 0.44 | 0.42 | 0.46 | 0.38 | 0.40 | 0.40 | 0.41 | 0.39 | 0.39 | 0.42 | 0.037 | 8.7% | 0.101 ug/L |
| beta-BHC | 1.07 | 0.97 | 0.93 | 0.89 | 1.02 | 0.86 | 0.91 | 0.85 | 0.89 | 0.84 | 0.82 | 0.91 | 0.078 | 8.6% | 0.217 ug/L |
| Lindane | 1.04 | 0.97 | 0.96 | 0.92 | 0.99 | 0.86 | 0.90 | 0.90 | 0.92 | 0.87 | 0.88 | 0.93 | 0.056 | 6.0% | 0.154 ug/L |
| delta-BHC | 1.04 | 0.99 | 0.95 | 0.90 | 1.05 | 0.83 | 0.87 | 0.87 | 0.93 | 0.87 | 0.83 | 0.92 | 0.078 | 8.5% | 0.216 ug/L |
| Metribuzin | 0.73 | 0.68 | 0.70 | 0.67 | 0.72 | 0.61 | 0.59 | 0.61 | 0.66 | 0.61 | 0.61 | 0.65 | 0.050 | 7.7% | 0.138 ug/L |
| Alachlor | 0.46 | 0.42 | 0.46 | 0.44 | 0.43 | 0.41 | 0.39 | 0.40 | 0.35 | 0.35 | 0.37 | 0.41 | 0.040 | 9.7% | 0.109 ug/L |
| Heptachlor | 0.90 | 0.90 | 0.93 | 0.83 | 0.88 | 0.83 | 0.75 | 0.80 | 0.84 | 0.80 | 0.76 | 0.84 | 0.059 | 7.0% | 0.163 ug/L |
| Prometryne | 0.41 | 0.44 | 0.39 | 0.42 | 0.39 | 0.36 | 0.34 | 0.36 | 0.35 | 0.34 | 0.35 | 0.38 | 0.035 | 9.2% | 0.096 ug/L |
| Aldrin | 1.01 | 0.97 | 0.91 | 0.97 | 0.85 | 0.84 | 0.89 | 0.90 | 0.88 | 0.88 | 0.88 | 0.91 | 0.054 | 5.9% | 0.148 ug/L |
| Metolachlor | 0.36 | 0.37 | 0.35 | 0.36 | 0.30 | 0.27 | 0.28 | 0.29 | 0.31 | 0.30 | 0.28 | 0.32 | 0.037 | 11.8% | 0.103 ug/L |
| Cyanazine | 0.60 | 0.50 | 0.40 | 0.41 | 0.52 | 0.37 | 0.31 | 0.36 | 0.55 | 0.34 | 0.32 | 0.43 | 0.100 | 23.6% | 0.277 ug/L |
| Heptachlor-epoxide | 0.95 | 0.95 | 0.91 | 0.94 | 0.89 | 0.80 | 0.85 | 0.89 | 0.86 | 0.87 | 0.85 | 0.89 | 0.048 | 5.4% | 0.131 ug/L |
| trans-Chlordane (gamma) | 1.03 | 1.02 | 0.97 | 0.98 | 1.00 | 0.88 | 0.90 | 0.94 | 0.95 | 0.93 | 0.91 | 0.96 | 0.049 | 5.2% | 0.136 ug/L |
| Endosulfan-I | 1.01 | 1.04 | 0.94 | 1.11 | 1.08 | 1.00 | 1.05 | 1.04 | 1.04 | 1.00 | 1.07 | 1.03 | 0.046 | 4.5% | 0.127 ug/L |
| cis-Chlordane (alpha) | 1.05 | 1.02 | 0.98 | 0.97 | 0.97 | 0.87 | 0.94 | 0.94 | 0.95 | 0.93 | 0.92 | 0.96 | 0.049 | 5.1% | 0.135 ug/L |
| 4,4'-DDE | 0.96 | 0.91 | 0.87 | 0.94 | 0.98 | 0.90 | 0.93 | 0.92 | 0.95 | 0.96 | 0.93 | 0.93 | 0.031 | 3.4% | 0.086 ug/L |
| Dieldrin | 1.03 | 0.96 | 0.99 | 1.06 | 1.05 | 0.96 | 0.95 | 0.95 | 1.00 | 0.95 | 1.02 | 0.99 | 0.042 | 4.2% | 0.116 ug/L |
| Endrin | 0.40 | 0.36 | 0.28 | 0.35 | 0.38 | 0.21 | 0.24 | 0.27 | 0.35 | 0.25 | 0.27 | 0.31 | 0.064 | 21.0% | 0.177 ug/L |
| Endosulfan-II | 0.15 | 0.06 | 0.01 | 0.11 | 0.11 | 0.06 | 0.02 | 0.05 | 0.18 | 0.03 | 0.04 | 0.07 | 0.055 | 74.3% | 0.153 ug/L |
| 4,4'-DDD | 1.11 | 0.96 | 0.95 | 0.96 | 1.11 | 0.90 | 0.90 | 0.95 | 1.12 | 0.97 | 0.89 | 0.98 | 0.088 | 8.9% | 0.242 ug/L |
| Endrin-aldehyde | 0.84 | 0.79 | 0.78 | 0.88 | 0.89 | 0.83 | 0.85 | 0.76 | 0.97 | 0.84 | 0.81 | 0.84 | 0.059 | 7.0% | 0.163 ug/L |
| Endosulfan-sulfate | 0.24 | 0.15 | 0.14 | 0.13 | 0.21 | 0.13 | 0.12 | 0.14 | 0.26 | 0.13 | 0.10 | 0.16 | 0.053 | 33.1% | 0.145 ug/L |
| 4,4'-DDT | 0.83 | 0.70 | 0.73 | 0.76 | 0.75 | 0.66 | 0.66 | 0.67 | 0.77 | 0.70 | 0.65 | 0.72 | 0.057 | 8.0% | 0.157 ug/L |
| Endrin-ketone | 1.09 | 0.93 | 0.90 | 0.92 | 1.06 | 0.85 | 0.83 | 0.90 | 1.17 | 0.92 | 0.88 | 0.95 | 0.108 | 11.4% | 0.298 ug/L |
| Methoxychlor | 1.21 | 1.09 | 1.04 | 1.10 | 1.02 | 0.94 | 0.93 | 0.92 | 1.10 | 0.93 | 0.88 | 1.01 | 0.103 | 10.2% | 0.285 ug/L |

Remarks: For eleven replicates, student t value = 2.76377, MDL = 2.76377 x Standard Deviation.