



EPA Method 1613 _____ **EPA Method 8290** _____ **EPA DLM01.4** _____ **EPA Method 23** _____

EPA method 8290 as applied to PCDD/PCDF in soil and stack emissions and EPA Method 1613 as applied to sludge, waste water and drinking water is offered as a DAT product. EPA Methods DLM01.4 and EPA Method 23 are derived from the two basic EPA methods.

The DAT laboratory is a NELAP laboratory and is certified by EPA Region 5 for the analysis of PCDD/PCDF in water and drinking water using EPA Method 8290 and EPA Method 1613B.

Although the analytes are the same EPA Method 8290 and EPA Method 1613 differ in the quality assurance associated with the methods. EPA Method 1613 provides an on going quality control program which requires data to meet the quality guidelines in the method, that is, Method 1613 has set recovery and accuracy requirements. EPA Method 1613 formed the basis for the Superfund DLM01.4 contract laboratory program method for PCDD/PCDF. EPA Method 8290 uses the RCRA Method 8000 guidelines for the application of quality control. The control limits are set by the performance of each individual laboratory.

The Laboratory consists of a 10,000 sq ft facility. The instrumentation used for high-resolution mass spectrometry consists of a VG-AutoSpec-Ultima M, VG- AutoSpec-ProSpec and a VG-70-70 SEQ. The equipment is under a maintenance agreement.

The founder of DAT, Dr. Mitchum, led the development of all the PCDD/PCDF regulatory methods while leading the Quality Assurance Division at the EMSL, US EPA. The validation of these methods has enabled the methodology to be broadly applied throughout EPA and State regulatory programs.

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