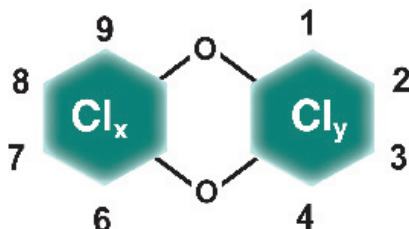


## DIOXIN AND FURAN TESTING SERVICES

Dioxin and furan are the common names associated with polychlorinated dibenzop-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs). Extensive research has concluded that exposure to dioxins and furans can



result in biochemical and biological effects in animals and humans. Because these ubiquitous compounds accumulate in biological tissues, dioxins and furans have been in the environmental spotlight for over two decades.

Since 1982, Pace Analytical's laboratories have been providing dioxin / furan analysis in support of industrial compliance, federal regulatory/monitoring efforts, and the remedial activities of military and civilian engineering firms. In recent years Pace has responded to an increasing demand to monitor animal feed and the human food supply for dioxin and dioxin-like compounds. Extensive experience with demanding projects and difficult matrices has forged a "culture of quality" that ensures precision, accuracy and data integrity. Pace Analytical is a large, financially stable, nationwide analytical services company with modern facilities and instrumentation, significant dioxin capacity and a commitment to on-time data delivery.

### Sample Matrices

- Drinking Water
- Waste Water
- Soil/Sediment
- Hazardous Waste
- Food Stuffs
- Air
- Wipes
- Tissues
- Biota
- Ash

### Instrumentation

- 2 – HRGC/HRMS – Autospec Ultima High Resolution Mass Spectrometers
- 3 – HRGC/HRMS – VG Autospec High Resolution Mass Spectrometers
- 2 – HP 5972 GCMS Low Resolution Mass Spectrometers

### Testing Capabilities

#### High Resolution GC/MS:

- EPA Method 1613B – water and tissue
- EPA Method 8290 – solid and hazard waste
- EPA Method 23 – stack or flue gas
- EPA Method TO 9 – ambient air monitoring
- EPA Method 1614 – PBDE flame retardants
- EPA Method 1668 – PCB Congeners WHO List
- EPA Method 1668A – PCB Congeners (209)

#### Low Resolution GC/MS:

- EPA Method 8280A – Low resolution all matrices

Note: *Methods may be modified to analyze 2,3,7,8 tetrachlorodibenzo-p-dioxin (TCDD); 2,3,7,8-TCDD/TCDF or all 17 congeners and totals.*

### Certifications

- USACE
- USEPA CLP
- NELAC
- Multiple State – Various Matrices
- ISO17025



The AutoSpec Ultima HRGCMS can quantitate dioxin/furan and dioxin-like compounds to parts-per-trillion (ppt) and parts-per-quadrillion (ppq) levels.



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