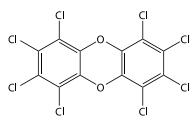


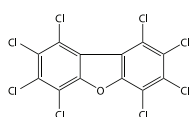


# SERVICES SUMMARY T09A

TESTING FOR POLYCHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURANS BY HIGH RESOLUTION GC/MS: EPA T09A



Polychlorinated  
Dibenzo-p-dioxin



Polychlorinated Dibenzofuran

## METHOD OVERVIEW

Method T09A provides procedures for the sampling, detection and quantitative measurement of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (tetra through octa) in ambient air samples collected by high volume sampler equipped with a quartz-fiber filter and polyurethane foam (PUF) cartridge. The analysis calls for the use of Gas Chromatography/High-resolution Mass Spectrometry (GC/HRMS) on purified sample extracts. Method T09A is normally utilized in a perimeter or fence line monitoring mode around incinerators, chemical production facilities or Superfund sites, in support of the Clean Air Act (CAA).

## APPLICATION

Calibrated PUF high volume samplers are used to collect containments within ambient air. Upon installation of the PUF cartridge (and filter) the operator is able to program a PUF high volume sampler to collect enough volume required for T09A. Typical collection volumes range from 325m<sup>3</sup> to 400m<sup>3</sup> of ambient air over a 24hr period. Pace® Analytical will provide a PUF cartridge (pre-spiked with labeled PCDD/PCDFs) and different filter sizes can be available upon request. Due to pre-spike, please handle all PUF cartridges with care, and call the laboratory if cartridge is broken. Pace® Analytical does not supply PUF high volume samplers. For a complete list of reportable analytes and current limits, please contact Pace® Analytical.

METHOD	CONGENERS	DESCRIPTION	MATRIX	RL/PQL <sup>1</sup>	TAT <sup>2</sup>	CONTAINER	PRESERVATION*	HOLD TIMES <sup>3</sup>	MIN VOLUME
T09A4	PCDDs/PCDFs	Ambient Air   17 Dioxin/Furan congeners and Totals	AIR	10-100 PG/S	10 Days	High Vol PUF/Filter	Refrigerate <6° C	7 Days	Per Method
NOTES									
1. RLs/PQLs subject to change, please contact lab for current limits. 2. Standard TAT is measured by business days – rush/customized TAT may be available by prearrangement.					3. Some State or Federal agencies may have alternative hold times and those must be met. 4. Sample Train preparation fee will be charged separately. Air samples can be calculated by "per sample," or by recorded volume sampled. *All methods require samples to remain in darkness or out of direct contact with sunlight.				

## SAMPLING MEDIA

- One PUF cartridge (includes pre-spike of labeled PCDD/PCDFs surrogate compounds)
- Pre-cleaned, quartz filter (must specify size)

Pace® Analytical will provide appropriate media upon request. PUF cartridge may differ than shown.

## METHOD QAQC:

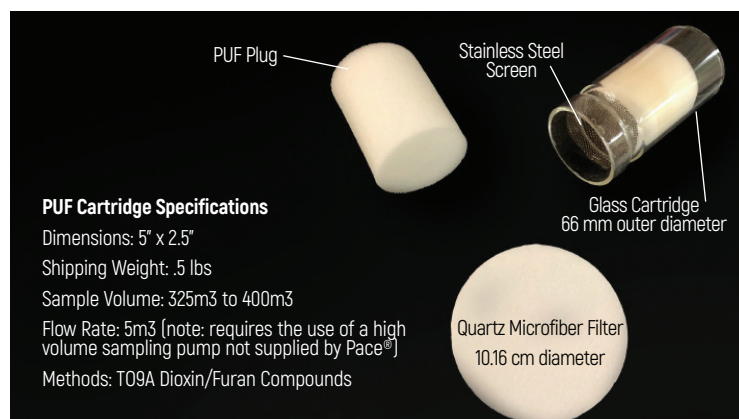
- Labeled internal standard recoveries are continuously monitored to ensure data quality and method compliance.
- Lab Blanks – 1 per 20 samples.

## CERTIFICATIONS:

A2LA • Multiple States • ISO/IEC 17025: 2017

## INSTRUMENTATION:

- 3 – GC/HRMS – Autospec Ultima High Resolution Mass Spectrometers
- 3 – HRGC/HRMS – Autospec Premier High Resolution Mass Spectrometers



Pace® Analytical Field Services Division is accredited for stack emission sampling and on-site process monitoring. Please contact your local sales executive for more information on our Stack Testing services. Pace® Analytical recommends using proper PPE and following site specific safety requirements. Trained personnel should perform sampling operations.