



Persistent Organic Pollutants (POPs) Testing Services

Reliable & independent
accredited analysis
across a wide variety
of different matrices

Marchwood Scientific Services is a UK leading specialist laboratory for the analysis of Persistent Organic Pollutants (POPs), and the ideal testing partner to support your POPs testing needs. Our comprehensive accredited POPs testing services deliver low limits of detection across a wide variety of matrix types and fast, reliable turnaround times.

What are POPs?

Persistent Organic Pollutants (POPs) are a group of toxic, carbon-based chemical substances that resist degradation, persisting in the environment for decades. They travel long distances via air and water, and accumulate in living organisms, bio-magnifying as they move up the food chain. They are highly poisonous and can cause severe health and environmental damage even at low concentrations, with exposure in humans and wildlife linked to increased cancer risk, reproductive disorders, developmental defects, and disruptions to the immune and hormone systems.

As a result, POPs are highly regulated and organisations must ensure that they understand the presence of POPs within raw materials, products, and waste streams to manage POPs contamination and ensure compliance.

Our POPs analytical services include:

- **Dioxins/Furans: Chlorinated & brominated**
- **PCBs: WHO 12 & ICES 7**
- **PBDEs - Brominated flame retardants: 26 congeners**
- **PAHs: USEPA 16, WID23**
- **WM3 POPs: 27 target compounds**
- **PFAS: 52 target compounds & TOP assay**
- **Custom method development.**



POPs Analysis

Marchwood's POPs testing services are available for a wide range of matrices including:

- **Stack emissions/Ambient air**
- **Soils/Ash**
- **Waste solids/liquids**
- **Surface, ground, potable water**
- **Food/Feed**
- **Fire-fighting foams.**

Marchwood is the UK's leading high-resolution GC-MS laboratory for the analysis of chlorinated and brominated dioxins and furans (PCDD/Fs & PBDD/Fs), PCBs, and brominated flame retardants. We adopt matrix specific extract clean up methodologies to achieve ultra-low limits of detection down to part per quadrillion (ppq). Our hi-res capability is supported by state-of-the-art LC-MSMS & GC-MSMS systems, for PFAS and PAHs.

- ISO 17025 & MCERTS accredited for most methods/matrices
- GMP+ certified laboratory for food & feed
- High-resolution GC-MS, LC-MSMS & GC-MSMS
- Low limits of detection to ensure compliance with regulatory standards.

Stack Emissions Testing

We provide ultra-low levels of detection down to parts per quadrillion (ppq) using hi-res GC-MS.

Accreditations: ISO 17025 & MCERTS.

Analytes: PCDD/Fs & PBDD/Fs, PCBs, PAHs (following ISO 11338 via GC-MSMS), & PBDEs (unaccredited).

Efficiency: Analysis of PCDD/Fs & PBDD/Fs, PCBs, & PBDEs from a single trap (BS EN 1948 & EPA Method 23).

Media: Pre-spiked XAD traps, filters, condensate bottles, & ambient air PUF filters provided.

Food & Feed Testing

Testing ensures legal compliance with EC 32/2002 for animal feed and EU 1881/2006 for foodstuffs.

Accreditations: ISO 17025 & GMP+ certified laboratory.

Analytes: PCDD/Fs, PCBs, & PAHs.

Environmental, Ash & Waste Testing

We undertake ISO 17025 accredited POPs testing across diverse matrices, achieving ultra-low detection limits using hi-res GC-MS.

Matrices: Waters, soils, sludge, dust, & sediments.

Analytes: PCDD/Fs & PBDD/Fs, PCBs, & PBDEs.

PFAS Testing

We offer very low limits of detection of Per- and polyfluoroalkyl substances (the “forever chemicals” with highly resilient carbon-fluorine bonds) to ensure alignment with EQS and drinking water regulations.

Accreditations: ISO 17025 for selected matrices.

Capability: Standard PFAS target list of 52 analytes.

Matrices: Waters, soils, waste, food/feed, & firefighting foams.



How Marchwood can help

Marchwood is a leading UK specialist POPs analysis laboratory, with POPs analytical services including dioxins, furans, brominated flame retardants, and PFAS. It is also the UK's leading specialist laboratory for independent occupational hygiene analysis, offering a range of services for the environmental, occupational and food/feed sectors. Our team of skilled experts provides high quality, accurate analytical testing services for energy generation, waste management, and occupational hygiene. Our investment in state-of-the-art analytical instrumentation, alongside our decades of experience, also allows us to work closely with customers to develop cost-effective and timely solutions for specific requirements.

For more information on Marchwood's services, or to request a quotation, please visit our website or contact us on the details provided below:

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