

PPWR ANALYTICAL PACKAGE

ONE LABORATORY. ONE COORDINATED ANALYTICAL PATHWAY.



**FOOD CONTACT
CENTER**

ONE LABORATORY FOR THE ENTIRE PPWR PACKAGE

**ALL THE EXPERTISE. ALL THE TECHNIQUES.
IN-HOUSE.**

Benefit from our in-house capabilities for the analytical techniques referenced in the PPWR and related guidelines, with one coordinated laboratory pathway and one clear report.

IN-HOUSE ANALYTICAL CAPABILITIES

- Total Fluorine: CIC, BOMB-CIC and ISE
- Total Organic Fluorine: Py-GC/MS
- Direct TOP Assay, LC-HRMS and GC-MS/MS
- Targeted and suspect PFAS analysis
- Heavy metals assessment



• ONE LABORATORY FOR THE ENTIRE PPWR PFAS PACKAGE

Since 12 August 2026, food contact packaging placed on the EU market must comply with the PFAS restrictions of Regulation (EU) 2025/40 (PPWR, Art. 5). Food Contact Center now manages the entire analytical package fully in-house, with all the techniques foreseen by the PPWR guidelines: Total Fluorine (CIC, BOMB-CIC and ISE), Total Organic Fluorine, Direct TOP Assay, targeted and suspect LC-HRMS quantification, GC-MS/MS for volatile PFAS, and the heavy metals check required by the same Regulation. **If a result is doubtful, we confirm it with an alternative technique, in the same laboratory. No subcontracting: one sample, one laboratory, one decision-ready report.**

• THE PPWR LIMITS, AND HOW WE VERIFY EACH ONE

25 $\mu\text{g/kg}$

Any single PFAS

Targeted LC-HRMS (accredited methods) and GC-MS/MS quantification

250 $\mu\text{g/kg}$

Sum of PFAS

Targeted and suspect analysis after Direct TOP Assay, to capture precursors

50 mg/kg

Total PFAS, incl. polymeric

Total Fluorine by CIC, BOMB-CIC or ISE, with TOF for organic fluorine

100 mg/kg

Sum of Pb, Cd, Hg, Cr(VI)

Heavy metals determination, as set by Art. 5(4)

WHAT YOU GET

✓ All the guideline techniques, 100% in-house

Total Fluorine (CIC, BOMB-CIC, ISE), TOF, Direct TOP Assay, targeted and suspect LC-HRMS, GC-MS/MS and heavy metals, all run by FCC.

✓ Cross-validated results

A doubtful result can always be confirmed with an alternative technique, without sending samples elsewhere.

✓ Accredited methods

LOQs fit for the PPWR thresholds, with results directly comparable with them.

✓ Decision-ready reports

Support for your technical documentation, due diligence and customer or authority requests.

✓ Regulatory support

Supplier DoC assessment, DoC issuing and risk-based grouping into product families.



HOW WE PROVE PPWR COMPLIANCE

• WHY SCREENING ALONE IS NOT ENOUGH

Total Fluorine and Total Organic Fluorine are useful screening tools, but they do not identify individual PFAS. Short-chain and telomeric PFAS contribute little to total fluorine, so a material can pass screening and still contain a single PFAS above 25 µg/kg. Only substance-specific data holds up when customers or authorities ask which PFAS are actually present.



• A STEP-BY-STEP PATH TO DEFENSIBLE COMPLIANCE

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Information gathering **Food Contact Services** • documentation support

FCS reviews supplier DoCs, composition and process inputs, and groups products into families to test efficiently. "PFAS-free" claims need care: even paper process water can introduce PFAS.

1

Total Fluorine screening **CIC, BOMB-CIC or ISE** • 50 mg/kg

CIC, BOMB-CIC or ISE depending on the matrix; a second technique can confirm doubtful results. Flags fluorinated materials, but does not separate inorganic from organic fluorine or identify single PFAS.

2

Total Organic Fluorine **Py-GC/MS** • new in-house, 2026

Qualitative assessment of organic fluorinated compounds, run in parallel with screening. Organic fluorine is not necessarily PFAS, so Step 3 follows.

3

Targeted & suspect PFAS analysis **Direct TOP Assay, LC-HRMS, GC-MS/MS** • 250 and 25 µg/kg

Direct TOP Assay converts hidden precursors into measurable PFAS to verify the 250 µg/kg sum. Any single PFAS above 25 µg/kg is confirmed by validated targeted LC-HRMS without TOP pretreatment. Where FTOHs or other volatile PFAS may be present, targeted and screening analysis by HS-GC-MS and GC-MS is added.

MIXED SAMPLE STRATEGY **Fewer samples, leaner analytical plan**

Samples with very similar matrices can be combined into a single analytical test. You optimise the number of samples to submit and the overall volume of analyses across your product families.

LOOKING AHEAD: SUBSTANCES OF CONCERN **Ready for the next PPWR step**

By 31 December 2026, the European Commission and ECHA are scheduled to release their joint report on substances of concern (SoCs) in packaging under the PPWR. **We already run targeted methods for a wide range of substances, and HRMS-based screening to evaluate potential contaminants beyond PFAS.**

Materials covered: paper and board, plastics, coatings, multilayer.

To plan your PPWR PFAS testing, contact Food Contact Center at sales@foodcontactcenter.com