MetroCycleEU

Metrology for the Recycling of Technology Critical Elements to Support Europe's Circular Economy Agenda

ANNOUNCEMENT!

Technology Critical Elements in Electronic Waste:

Interlaboratory Comparison for Lithium ion Batteries (LiB) and Printed Circuit Boards (PCB)

The MetroCycleEU project is focused on supporting the electronic waste recycling industry to provide much needed matrix-matched reference materials and measurement advice for Technology Critical Elements (TCEs). Part of this involves understanding the current status of analytical challenges faced by industry. Therefore, the MetroCycleEU project is organising an interlaboratory comparison for experienced laboratories within the field to test their methods and capabilities for the determination of TCEs in two challenging electronic waste materials (LiB & PCB). This is a unique opportunity to support and influence the development of certified matrix-matched reference materials and best practice measurement guides.

Objective: to establish the current status of TCE analysis by experienced laboratories utilising multiple analytical techniques to test the LiB and PCB candidate reference materials.

For who: Industry laboratories, research institutes and expert academic laboratories involved in TCE recycling and analysis with atomic spectrometry methods e.g. ICP-MS, ICP-OES, XRF, GD-OES etc.

Elements of interest: Lithium, Cobalt, Gallium, Germanium, Nickel, Copper, Gold, Silver, Palladium, Tantalum, Neodymium, Praseodymium, Dysprosium, Gadolinium, Lanthanum, Titanium, Samarium.

Output: independent assessment of capabilities and chance to provide feedback about the materials and participate in dissemination/learning opportunities.

Provisional timeline:
- Sample dispatch December 2023 – January 2024
- Results submission February – March 2024
- Interlaboratory comparison report April 2024

Participation limited to 10-15 experienced laboratories. Detailed information on the comparison exercise will be circulated soon.

Registration:
Please use this link to register your interest in the interlaboratory comparison.

Registration Form for the MetroCycleEU Interlaboratory Comparison