



Trace Element Detection Limits: What Every Spectroscopist Should Know

Thursday, September 23, 2021

10am EDT | 7am PDT | 3pm BST | 4pm CEST

Event Overview:

Many practitioners of trace element analysis think of detection limits as figures on a spec sheet or as measurements performed periodically to meet a regulatory requirement. Others see them in the context of “chasing zero.” While those views are all valid, there is still much more to detection limits.

In this symposium, we present highly practical information that can be used to help improve your analytical proficiency and performance not only at low trace element concentrations, but at higher levels as well. We start with a deep dive into detection limits and limits of quantification for atomic spectrometry techniques: what they are, how they are defined, and what influences them. We also look at what is driving the requirements for certain detection limits and why we are on a seemingly never-ending quest to reduce them. Presentations on real-world applications involving low trace element concentrations show how several different factors can stack up to affect detection limits and why a holistic approach is required to achieve truly meaningful analytical results. Finally, we have several presentations on the latest commercially available tools and techniques for improving trace element detection limits and overall analytical performance.

Moderator: Laura Bush, Editorial Director, Spectroscopy

Key Learning Objectives

How trace element detection limits for atomic spectrometry techniques are defined, factors that influence them, and why they are important

How knowledge of trace element detection limits is applied in addressing various analytical challenges

Tools and techniques for improving trace element detection limits and analysis performance

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Event Schedule: Thursday, September 23, 2021

Morning Session: 10:00am – 12:00pm EDT

10:00am EDT	Symposium Introduction <i>Laura Bush, Editorial Director, Spectroscopy</i>
10:05am EDT	The Limit of Quantification: A Tool for Creating Confidence and Competitive Advantage <i>Tom Gluodenis, Ph.D., PMFS, MBA, Lincoln University</i>
10:35am EDT	Trace Element Analysis in the Real World: Practical Considerations Driving ICP-MS Detection Performance <i>Robert Thomas, Scientific Solutions</i>
11:05am EDT	Adoption of Single Reaction Chamber Microwave Digestion and Triple-quad ICP-MS to Improve Efficiency and Low Detection Trace and Ultratrace Element Analysis of Geologic Materials <i>Jack Casey, Ph.D., University of Houston</i>
11:35am EDT	Question-and-Answer Period

Afternoon Session: 1:00 – 3:15pm EDT

1:00pm EDT	THINK BLANK! Clean Chemistry Tools for Trace Element Analysis <i>Gianpaolo Rota, Milestone SRL</i>
1:30pm EDT	The Role of Microwave Digestion in Achieving Superior Trace Metals Detection Limits <i>Eric Farrell, Milestone Inc.</i>
2:00pm EDT	Use of Direct Mercury Analysis to Determine Trace Levels of Mercury <i>Brian Looney, Ph.D., Savannah River Nuclear Solutions</i>
2:30pm EDT	The Value of Reliable Data: Advances and Strategies in ICP-OES and ICP-MS to Achieve the Lowest Detection Limits <i>Bert Woods, Agilent Technologies</i>
3:00pm EDT	Question-and-Answer Period

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