

November 6, 2024 (13:30-14:15)



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VENDOR SEMINAR:

Optimization strategies to deliver performant PFAS and pesticide quantitation in complex food matrices

End-to-end LC/MS workflows for analysis of PFAS in meat, dairy products, and fish, through to infant foods and formulations

Day Powell, Application Scientist, Agilent Technologies, UK

This presentation describes workflows for multi-target PFAS determination in infant and adult foods covering sample preparation steps to LC-triple quad MS detection. Sample preparation exploiting traditional QuEChERS extraction followed by novel EMR mixed-mode passthrough cleanup using Captiva EMR PFAS Food cartridges is described. An Agilent 6495D LC/MS system with modifications on the LC system using PFC-free kit with large volume sandwiched injection onto a reversed phase column is deployed to enable efficient analyte separation with sensitive detection.

Exploiting intelligent sample reinjection within a LC-HRMS workflow to improve throughput and confidence in pesticide quantitation results

Nicola Cimino, LC/MS Product Specialist, Agilent Technologies, Italy

Here we present the exploitation of full spectra data acquisition with Revident LC/Q-TOF in combination with fast LC gradients with data dependent, intelligent sample reinjection under different chromatographic and MS acquisition modes to maximize both throughput and confidence in the final result.