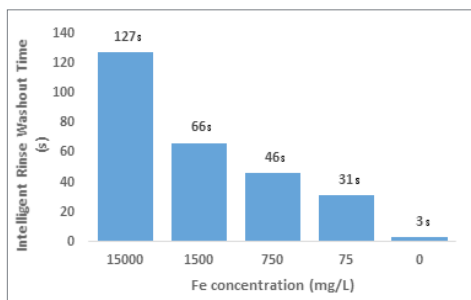# Intelligent Rinse for ICP-OES

Increase productivity and reduce errors

Benefits of Agilent Intelligent Rinse

– Shorter rinse durations between samples

– Increased sample throughput

– Simplified method setup–no need to accurately predict required rinse durations

The Agilent Intelligent Rinse function adjusts rinse time, based on the time taken to wash out each element in your sample. In this example, Intelligent Rinse saved over two minutes of unnecessary rinse time when measuring samples at the low end of the calibration compared with those at higher concentrations.

Intelligent Rinse* maximizes throughput by optimizing the rinse time between samples

When setting up an ICP-OES method, you are normally forced to specify a rinse time that will suit your highest concentration samples. This rinse time is then used for all samples, even those with much lower concentrations of the analytes.

Rinse times depend on several factors, such as:

– The type and length of the sample introduction tubing

– The specific sample introduction components used

– The types of samples and elements being analyzed

As shown in the figure, samples with low concentrations of an element take a shorter time to wash out than higher concentrations. The figure shows over two minutes difference between the highest and lowest sample concentrations. If your samples have a large variation in concentrations, using the same rinse time for each can add considerable time to the analytical run.

The Intelligent Rinse software function monitors the intensities of nominated element wavelengths during the rinse period, automatically ending the rinse when these intensities reach a user-specified threshold. This cabability allows the rinse period to vary, depending on the time taken to wash out each individual sample. This increases sample throughput while preserving the accuracy of results.

For more information, visit:

www.agilent.com/chem/5800icpoes

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