

## Track Product Performance & Spec Compliance

### The Challenge:

Timely detection of design issues before ramp is imperative for electronics manufacturers. These include issues such as detecting parametric drifts introduced by unintended consequences of ECOs; lot-to-lot deviations, incompatibilities and component variations.

### The Solution:

Optimal+ enables real-time characterization of electronics modules. The big data engine leverages massive amounts of production data to ensure consistent quality and adherence to design specs and automatically detects possible contributing factors leading to the creation of outliers.

In the example below, an algorithm is applied to detect wave form outliers. A virtual test waveform is created by overlaying S21 Path 1 over Path 2.

