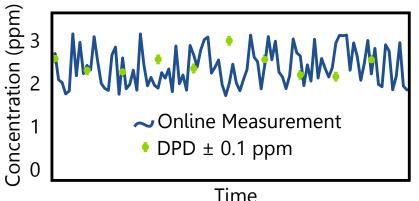
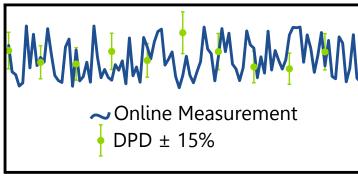
Understanding Compliance Tolerances

Compliance Tolerances Are Application-Dependent

- •Online amperometric biocide measurements are most often validated using handheld colorimetric measurements.
- •Most applications have a defined sampling frequency and tolerances for the system to remain in compliance, which are specific to the application.
- •Drinking water applications usually follow USEPA 334.0, which states that,
- "Analyzer reading [must be] within ± 0.1 mg/L or $\pm 15\%$ (whichever is larger) of grab sample measurement."
- •Regulatory bodies build in tolerances like the ones above to account for inherent fluctuations and measurement errors that are present in both colorimetric and amperometric technologies.





Time

Which Tolerances Should You Use?

- •The above graphs show data for an online analyzer in a drinking water application, which follows USEPA 334.0 compliance regulations (outlined above).
- •The blue line shows the online measurement, while the green circles show handheld reference measurements.
- •The error bars are either ± 0.1 ppm (left) or $\pm 15\%$ (right).
- •Because the error bars on the right plot are larger, the online analyzer should use the $\pm 15\%$ tolerance.

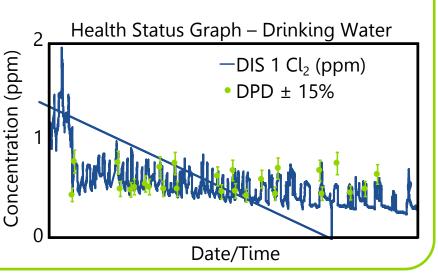


KUNTZE BEST PRACTICES: Cloud Connect® Insights Package

- •Kuntze Cloud Connect® is the remote monitoring and data acquisition tool you need to stay in compliance.
- With a Cloud Connect® Insights Package, you'll receive 12 monthly reports outlining daily process metrics, sensor health assessment, a Health Status Graph, and optimization suggestions.
- •The compliance-driven Health Status Graph overlays your online analyzer signal with your reference measurements. including customizable tolerances for your application needs.



Sensor Age: 12 months



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