

Quick Calibration Example 1

$\text{conc}_{\text{std}} := 225$ concentration of standard, in ppm

$\text{signal}_{\text{std}} := 0.833$ $\text{signal}_{\text{sample}} := 0.681$ signal measurements

If we assume a linear response, the concentration of analyte in the sample can be calculated simply

$$\text{conc}_{\text{sample}} := \frac{\text{conc}_{\text{std}}}{\text{signal}_{\text{std}}} \cdot \text{signal}_{\text{sample}} \quad \text{conc}_{\text{sample}} = 183.9 \quad \text{concentration in ppm}$$

Thus, the concentration of iron in the sample is 183.9 ppm.