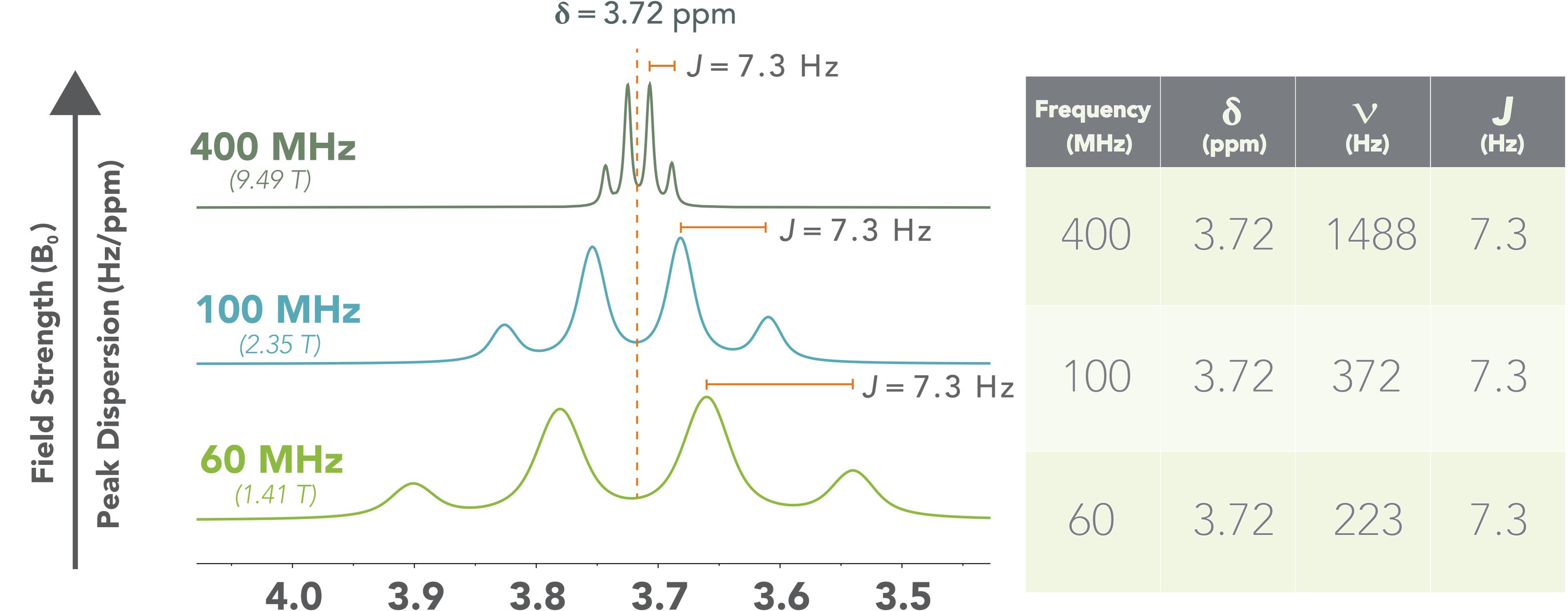
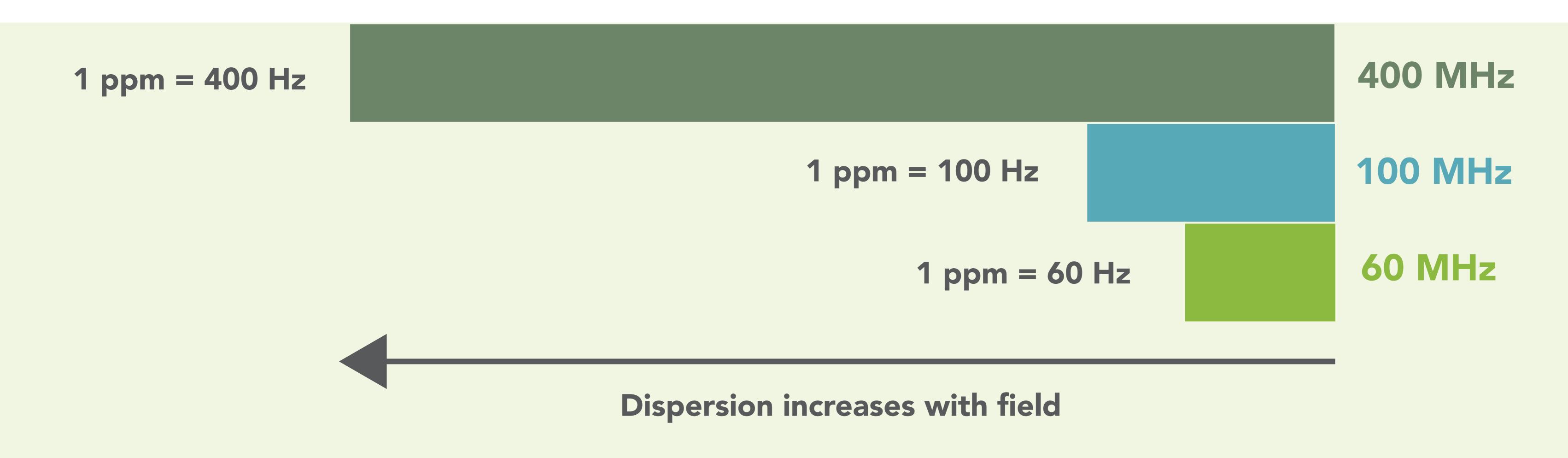


## NMR FIELD VS. PEAK STRENGTH VS. DISPERSION





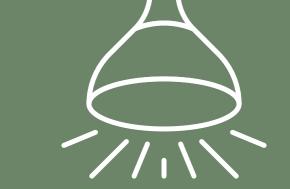




Higher fields lead to increased dispersion and consequently less signal overlap.

The chemical shift in Hz (v) is field dependent. It is normalized to chemical shift in ppm ( $\delta$ ) to compare spectra taken at different B<sub>0</sub>

$$(\text{ppm}) = rac{V_{\text{signal}} (\text{Hz}) - V_{\text{TMS}} (\text{Hz})}{\text{spectrometer frequency} (\text{Hz})} \times 10$$



The coupling constant (J) in Hz is independent of B<sub>0</sub>