

The Spectral Window

- NMR Signals in the FID are Originally Received as Radio Frequency (RF) Signals in a Narrow Range of Frequencies:

Example: 299.998 to 300.002 MHz

- The RF Signals are Converted to Audio Signals by Subtraction of the Center RF Frequency:

Example: -2000 to + 2000 Hz

- In Software, the Chemical Shift of the Reference Peak (e.g. TMS) is Set by the User, Leading to a ppm (Parts per Million) Scale.