

Receiving the FID: Analog and Digital

- The FID is Received as a Radio Frequency (e.g. 299.998 to 300.002 MHz)
- The Center Frequency is Subtracted Out (e.g. 300.000 MHz) to give an Audio Frequency Signal (e.g. -2000 to +2000 Hz)
- This Audio Signal is Sampled at Regular Intervals (e.g. every 125 microseconds)
- Each Sample Results in a Digital (Binary) Value for the Intensity of the Audio Signal at the Moment
- The Table of Digital Sample Values is the FID in the Computer. There are Many Data Points (e.g. 16,384) in an FID.