

**Radio Testing Guide - (Figure 1-10)**

**How to interpret wave:**

- **Amplitude** (height) represents **power** (loudness) of the signal. **Higher** amplitude = **higher** power.

- **Frequency** (cycles per second) represents **pitch** of the signal. **Higher** frequency = **higher** pitch.
- **Wavelength** (distance between two peaks) represents **pitch** of the signal. **Shorter** wavelength = **higher** pitch.

**Radio frequency spectrum:**

- **Low frequency** (LF) - **long** wavelength, **low** pitch
- **Medium frequency** (MF) - **medium** wavelength, **medium** pitch
- **High frequency** (HF) - **short** wavelength, **high** pitch



**Radio waves:**

- **Radio waves** are **electromagnetic waves** that travel at the **speed of light** (300,000,000 meters per second).
- **Radio waves** are **classified** into **low frequency** (LF), **medium frequency** (MF), and **high frequency** (HF) waves.
- **Radio waves** are **used** for **communication** (radio, television, etc.) and **navigation** (GPS, etc.).
- **Radio waves** are **classified** into **low frequency** (LF), **medium frequency** (MF), and **high frequency** (HF) waves.
- **Radio waves** are **classified** into **low frequency** (LF), **medium frequency** (MF), and **high frequency** (HF) waves.

# Episode 1301 Electromagnetic Spectrum

**Xiang Xie**



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