Headphone Measurements:  Sennheiser HD 424

Headphone Measurements:

- **Volts RMS required to reach 90dB SPL:** 0.405 Vrms
- **Impedance @ 1kHz:** 2096 Ohms
- **Power Needed for 90dB SPL:** 0.08 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -2 dBr

![Frequency Response](image)

**Frequency Response**
- Top - Compensated and Averaged
- Bottom - Raw Data for Five Headphone Positions

![Electrical Impedance and Phase](image)

**Electrical Impedance and Phase**
- Measured with 600 Ohm output impedance.

![Isolation](image)

**Isolation**
- Attenuation of External Sound vs. Frequency

![%THD+noise @ 90dB and 100dB](image)

**%THD+noise @ 90dB and 100dB**

![30 Hz Square Wave](image)

**30 Hz Square Wave**

![300 Hz Square Wave](image)

**300 Hz Square Wave**

- Left 90dB
- Right 90dB
- Left 100dB
- Right 100dB

![Impulse Response](image)

**Impulse Response**

- Volts RMS required to reach 90dB SPL: 0.405 Vrms
- Impedance @ 1kHz: 2096 Ohms
- Power Needed for 90dB SPL: 0.08 mW
- Broadband Isolation in dB (100Hz to 10kHz): -2 dB