

Technical Description

The Equipment Under Test is a Gaming Headset of 2.4GHz Wireless Headphone with Dongle and Docking (Cradle). The EUT operates at frequency range of 2403.35MHz to 2479.35MHz. There are total 39 channels with 2MHz channel spacing. The USB port on the Headphone is for charging purpose only. The EUT is powered by 3.7V rechargeable battery. The EUT has two antenna.

Antenna 0

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 86.74dB μ V/m at 3m (Peak), 83.72dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

Antenna 1

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 93.90dB μ V/m at 3m (Peak), 93.74dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U3 (AV6302) acts as MCU
2. X1 acts as 16MHz Oscillator
3. U4 (HWS408) acts as antenna matching circuit
4. EN1 acts as volume encoder
5. USB1 acts as USB circuit
6. U1 acts as LDO circuit