

Technical Description

The Equipment Under Test is a Gaming Headset Dongle of 2.4GHz Wireless Headphone with Dongle. The EUT operates at frequency range of 2402MHz to 2480MHz. There are total 79 channels with 1MHz channel spacing. The EUT is powered by USB port (5VDC). After pairing, the dongle will communicate with headphone for transmitting the sounds and related commands.

Antenna Type: Internal, Integral antenna

Antenna Gain: 1.9dBi

Nominal rated field strength is 105.8dB μ V/m at 3m (Peak), 81.2dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (AB1565) acts as MCU
2. X1 acts as 26MHz Oscillator
3. R15, R16, C28 and C29 act as antenna matching circuit
4. U2 acts as security chip
5. U3 acts as voltage regulator