INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a STEREO SPEAKER with Bluetooth 5.0 (Single Mode BDR/EDR) function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by rechargeable battery and charged by DC 5V through adaptor. Once a 3.5mm audio jack is inserted into the Aux in port, the device will automatically be switched to Aux-in function. For more detail information pls. refer to the user manual.

Modulation Type: GFSK, π/4-DQPSK and 8-DPSK Bluetooth Version: 5.0 (Single Mode BDR/EDR)

Antenna Type: Integral antenna. Antenna Gain: -0.58dBi Max

The nominal conducted output power specified: 0.58dBm (+/-3dB). The nominal radiated output power (e.i.r.p) specified: 0dBm (+/-3dB).

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $95.8dB\mu V/m$ at 3m in the frequency 2441MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = 0.57dBm which is within the production variation.

The minimum peak radiated emission for the EUT is $94.7dB\mu V/m$ at 3m in the frequency 2402MHz

The EIRP = $[(FS*D) ^2 / 30] \text{ mW} = -0.53 \text{dBm}$ which is within the production variation.

The maximun conducted output power specified is 3.58dBm = 2.3mW The source- based time-averaging conducted output power

- = 2.3 * Duty factor mW (where Duty Factor≤1)
- = 2.3 mW

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.480) mW
- = 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

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