INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Bluetooth Speaker with Bluetooth 2.1 + EDR function operating in 2402-2480MHz. This EUT is powered by a DC14.8V Rechargeable Lithium Ion Battery that can be recharged by 100-240V~50/60Hz. For more detail information pls. refer to the user manual.

Modulation Type: GFSK, π/4DQPSK, 8DPSK

Bluetooth Version: 2.1 + EDR

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The nominal conducted output power specified: 0dBm +/-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 $95.5 dB\mu V/m$ at 3m in the frequency 2402 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = 0.27dBm which is within the production variation.

The minimum peak radiated emission for the EUT is $93.1 dB\mu V/m$ at 3m in the frequency 2480 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -2.13dBm which is within the production variation.

The maximun conducted output power specified is 3.0dBm = 2mW The source- based time-averaging conducted output power

- = 2 * Duty factor mW (where Duty Factor≤1)
- = 2 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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