INTERTEK TESTING SERVICES

RF Exposure

The Equipment Under Test (EUT) is a DISCO LAMP SPEAKER WITH COLOR/WHITE LED LIGHTING with Bluetooth functions. The EUT is powered by DC 3.7V rechargeable battery which can be powered by adapter. For more detailed features description, please refer to the user's manual.

Bluetooth Version: 5.1 (Single mode EDR)

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

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

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 96.1dBµV/m at 3m in the frequency 2402MHz (EDR mode)

The EIRP = $[(FS*D)^2 / 30] \text{ mW} = 0.87 \text{dBm}$

which is within the production variation.

The minimum peak radiated emission for the EUT is $94.7 dB\mu V/m$ at 3m in the frequency 2480 MHz (EDR mode)

The EIRP = [(FS*D) ^2 / 30] mW = -0.53dBm

which is within the production variation.

The maximum conducted output power specified is 3dBm = 2.0mW

The source- based time-averaging conducted output power

- = 2.0 * Duty factor mW (where Duty Factor≤1)
- = 2.0 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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