INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Bluetooth Low Energy Device with Bluetooth function. The EUT was powered by DC 3V button battery. For more detail information pls. refer to the user manual.

Modulation Type: GFSK

Bluetooth Version: 4.0 BLE Mode

Antenna Type: Integral antenna.

Antenna Gain: 5dBi.

The nominal conducted output power specified: -5dBm (+/-4dB). The nominal radiated output power (e.i.r.p) specified: 0dBm (+/- 4dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 94.1 dB μ V/m at 3m in the frequency 2480MHz.

The EIRP = $[(FS*D) ^2 / 30]$ mW = -1.13dBm which is within the production variation.

The minimum peak radiated emission for the EUT is 92.8dBµV/m at 3m in the frequency 2402MHz.

The EIRP = $[(FS*D) ^2 / 30]$ mW =-2.43dBm which is within the production variation.

The maximun conducted output power specified is -1.0dBm = 0.79mW The source- based time-averaging conducted output power

- = 0.79 * Duty factor mW (where Duty Factor≤1)
- = 0.79 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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