INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is an Interface with Bluetooth 5.0 BLE function operating in 2402-2480MHz. The EUT is powered by DC 4.5V (3 x 1.5V AA batteries). For more detailed information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: -0.58dBi.

The normal radiated output power (e.i.r.p) is: -9.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -8.42dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $87.6 dB\mu V/m$ at 3m in the frequency 2402 MHz

The EIRP = $[(FS*D)^2 / 30] \text{ mW} = -7.63 \text{dBm}$

which is within the production variation.

The Minimum peak radiated emission for the EUT is $85.1 dB\mu V/m$ at 3m in the frequency 2480 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -10.13dBm which is within the production variation.

The maximum conducted output power specified is -5.42dBm= 0.287mW
The source- based time-averaging conducted output power
=0.287mW

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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