INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Wireless Keyboard with Bluetooth 5.1 (Single Mode BR) function operating in 2402-2480MHz. The EUT is powered by DC 5.0V by adapter. For more detail information pls. refer to the user manual.

Bluetooth Version: 5.1 (Single Mode BR)

Antenna Type: Integral antenna

Modulation Type: GFSK Antenna Gain: 1.87dBi Max

The nominal conducted output power specified: -6.87dBm (±3dB)
The nominal radiated output power (e.i.r.p) specified: -5.0dBm (±3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $90.1dB\mu V/m$ at 3m in the frequency 2402MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -5.13dBm which is within the production variation.

The minimum peak radiated emission for the EUT is $89.3dB\mu V/m$ at 3m in the frequency 2441MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -5.93dBm which is within the production variation.

The maximun conducted output power specified is -3.87dBm = 0.410mW The source- based time-averaging conducted output power

- = 0.410 * Duty factor mW (where Duty Factor≤1)
- = 0.410 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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