INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Health Monitor with Bluetooth function. The EUT was powered by the fully-charged DC 3.7V, 2.07Wh new rechargeable battery which was charged by USB port (DC 5V). For more detail information pls. refer to the user manual.

Modulation Type: GFSK for BT 4.0 and GFSK, π /4DQPSK, 8DPSK for BT 2.1+EDR. Bluetooth Version: 4.0 and 2.1 with EDR.

Antenna Type: Integral antenna.

Antenna Gain: 2.5dBi max.

The nominal conducted output power specified: 3.5dBm +/-3dB. The nominal radiated output power (e.i.r.p) specified: 6dBm (+/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $103.4 dB\mu V/m$ at 3m in the frequency 2402 MHz of BT 4.0 The EIRP = [(FS*D) ^2 / 30] mW = 8.17dBm which is within the production variation.

The minimum peak radiated emission for the EUT is $100.8 dB\mu V/m$ at 3m in the frequency 2480MHz of BT 2.1+EDR The EIRP = [(FS*D) ^2 / 30] mW = 5.57dBm which is within the production variation.

The maximun conducted output power specified is 6.5dBm = 4.5mW
The source- based time-averaging conducted output power
= 4.5 * Duty Cycle mW (where Duty Cycle≤100%)
≤ 4.5 mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)

= 3.0 * 5 / sqrt (2.480) mW

= 9.5 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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