INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is an Auto Swing Chair with Bluetooth 5.1 (Single Mode EDR) function operating in 2402-2480MHz. The EUT is powered by DC 5.0V by adaptor. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

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

Antenna Gain: -0.58dBi Max

Bluetooth Version: 5.1 (Single Mode EDR)

The normal radiated output power (e.i.r.p) is: -1.0dBm (tolerance: +/- 3dB). The normal conducted output power is -1.58dBm (tolerance: +/- 3dB).

According to the KDB 447498 D01 V06 section 4.3:

The Maximum peak radiated emission for the EUT is 94.5dBµV/m at 3m in

the frequency 2480MHz

The EIRP = $[(FS*D)^2 / 30] \text{ mW} = -0.73 \text{dBm}$

which is within the production variation.

The Minimum peak radiated emission for the EUT is 91.6dBµV/m at 3m in the frequency 2441MHz

The EIRP = $[(FS*D)^2 / 30] \text{ mW} = -3.63 \text{dBm}$

which is within the production variation.

The maximum conducted output average power specified is 1.42dBm= 1.387mW The source- based time-averaging conducted output power

=1.387 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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