

INTERTEK TESTING SERVICES

Radiofrequency radiation exposure evaluation

The equipment under test (EUT) is a Smart Bracelet with Bluetooth 5.1 function operating in 2402-2480MHz. The EUT is powered by DC 3.7V By battery. For more detail information pls. refer to the user manual.

BLE:

Modulation Type: GFSK

Antenna Type: Integral antenna

Antenna Gain: 0.17dBi (This information is provided by applicant, and the applicant is responsible for the authenticity of the provided information.)

The nominal radiated output power (e.i.r.p) specified: 3.17 dBm (Tolerance: +/- 2dB)

The nominal conducted output power specified: 3 dBm (Tolerance: +/- 2dB)

According to the KDB 447498 V06:

The Maximum peak conducted output power for the EUT is 4.96 dBm in the frequency 2402MHz

which is within the production variation.

The Minimum peak conducted output power for the EUT is 3.55 dBm in the frequency 2480MHz

which is within the production variation.

The maximum conducted output power specified is 5 dBm = 3.16mW

The source- based time-averaging conducted output power
=3.16mW

The SAR Exclusion Threshold Level:

= $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR

= $(3.16/5) \cdot \sqrt{2.48}$

= $1.0 \leq 3.0$

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.