

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Smart Tracker with Bluetooth 5.1 BLE function operating in 2402-2480MHz. The EUT is powered by DC 3.0V (1 x 3.0V CR2032 battery). For more detailed information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 0dBi

Bluetooth Version: 5.1 BLE (Single Mode)

The normal peak radiated output power (e.i.r.p) is: -2.0dBm (tolerance: +/- 3dB).

The normal peak conducted output power is: -2.0dBm (tolerance: +/- 3dB).

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 93.4 dB μ V/m at 3m in the frequency 2480MHz

The EIRP = $[(FS^*D)^2 / 30]$ mW = -1.83dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 92.3dB μ V/m at 3m in the frequency 2402MHz

The EIRP = $[(FS^*D)^2 / 30]$ mW = -2.93dBm
which is within the production variation.

The maximum conducted output power specified is 1dBm= 1.259mW

The source- based time-averaging conducted output power
=1.259mW

The SAR Exclusion Threshold Level:

= $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt(freq. in GHz)}$
= $3.0 * 5 / \text{sqrt}(2.480)$ 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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