

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a LED alarm clock with Bluetooth 5.4 BLE (single mode) function operating in 2402-2480MHz. The EUT is powered by AC 120V~ 60Hz, 15W or DC 3V from AAA battery. For more detail information pls. refer to the user manual.

BLE

Modulation Type: GFSK

Antenna Type: Integral antenna

Antenna Gain: -0.58dBi (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: -3dBm (Tolerance: +/- 2dB)

The nominal conducted output power specified: -2.42dBm (Tolerance: +/- 2dB)

According to the KDB 447498 D04 V01:

The maximum peak radiated emission for the EUT is 92.9dBμV/m at 3m in the frequency 2402MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -2.33dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 91.4dBμV/m at 3m in the frequency 2480MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -3.83dBm
which is within the production variation.

The maximum conducted output power specified is -0.42dBm = 0.91 mW
The source- based time-averaging conducted output power
= 0.91 mW

1-mW Test Exemption:

Since the source-based time-averaging conducted output power is well below 1-mW Test Exemption, per KDB 447498 D04 V01 and §1.1307 (b) (3) (i) (A), the EUT is considered to comply with SAR requirement without testing and no evaluation is required.