

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Wireless Sensor Pad with BT 4.0 BLE function operating in 2402-2480MHz. The EUT is powered by DC 3V, CR2450 size battery; For more detail information pls. refer to the user manual.

Modulation Type: GFSK.

Bluetooth Version: BT 4.0 BLE(single mode)

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The nominal conducted output power specified: -5dBm (+/-3dB).

The nominal radiated output power (e.i.r.p) specified: -5dBm (+/- 3dB).

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 93.1dB μ V/m at 3m in the frequency 2440MHz

The EIRP = $[(FS^*D)^2 / 30]$ mW = -2.13dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 89.1dB μ V/m at 3m in the frequency 2402MHz

The EIRP = $[(FS^*D)^2 / 30]$ mW = -6.13dBm
which is within the production variation.

The maximum conducted output power specified is -2dBm = 0.63mW

The source- based time-averaging conducted output power

= 0.63 * Duty factor mW (where Duty Factor ≤ 1)

= 0.63 mW

1-mW Test Exemption:

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