## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a Smart Tag with BLE 5.0 function operating in 2402-2480MHz. The EUT is powered by DC 3V by button battery. For more detailed features description, please refer to the user's manual.

Bluetooth Version: 5.0 BLE (Single Mode)

Antenna Type: Integral antenna

Modulation Type: GFSK Antenna Gain: 0dBi Max

The nominal conducted output power specified: 3dBm (+/-2dB)
The nominal radiated output power (e.i.r.p) specified: 3dBm (+/-2dB)

According to the KDB 447498 V06:

The maximun peak radiated emission for the EUT is  $100.0 dB\mu V/m$  at 3m in the frequency 2402 MHz

The EIRP =  $[(FS*D)^2 / 30]$  mW = 4.77dBm which is within the production variation.

The minimum peak radiated emission for the EUT is  $99.1dB\mu V/m$  at 3m in the frequency 2440MHz

The EIRP =  $[(FS*D)^2 / 30]$  mW = 3.87dBm which is within the production variation.

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

The source- based time-averaging conducted output power

- = 3.16 \* Duty factor mW (where Duty Factor≤1)
- = 3.16 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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