## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a Speaker Portable Waterproof Bluetooth with BT 5.0 EDR function operating in 2402-2480MHz. The EUT is powered by DC 7.4V by rechargeable battery. For more detail information pls. refer to the user manual.

Modulation Type: GFSK, π/4-DQPSK and 8-DPSK

Bluetooth Version: 5.0 (Single Mode EDR)

Antenna Type: Integral antenna. Antenna Gain: -0.58dBi Max

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

The nominal radiated output power (e.i.r.p) specified: 1.42dBm (+/- 3dB).

According to the KDB 447498:

The maximun peak radiated emission for the EUT is  $99.4 dB\mu V/m$  at 3m in the frequency 2480 MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 4.17dBm which is within the production variation.

The minimum peak radiated emission for the EUT is  $94.1dB\mu V/m$  at 3m in the frequency 2441MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -1.13dBm which is within the production variation.

The maximun conducted output power specified is 5dBm = 3.2 mW The source- based time-averaging conducted output power

- = 3.2 \* Duty factor mW (where Duty Factor≤1)
- = 3.2 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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