## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a BLUETOOTH WIRELESS SPEAKER with Bluetooth function. The EUT was powered by DC 11.1V lithium battery or charged by adapter. For more detail information pls. refer to the user manual.

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

Bluetooth Version: 2.1 with EDR.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The nominal conducted output power specified: -4.0dBm (+/-3dB).

The nominal radiated output power (e.i.r.p) specified: -4.0dBm (+/- 3dB)

## According to the KDB 447498:

The maximun peak radiated emission for the EUT is  $93.4dB\mu V/m$  at 3m in the frequency 2402MHz.

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

The minimum peak radiated emission for the EUT is  $91.5 dB\mu V/m$  at 3m in the frequency 2480 MHz.

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -3.73dBm which is within the production variation.

The maximun conducted output power specified is -1.0dBm = 0.79mW The source- based time-averaging conducted output power

- = 0.79 \* Duty factor mW (where Duty Factor≤1)
- = 0.79 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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