## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a Game Augmented Reality Blaster with Bluetooth function operating at 2.4G Band. The EUT can be powered by DC3.0V (2 x 1.5V AA batteries). For more detail information pls. refer to the user manual.

Bluetooth Version: 4.0 BLE (single mode)

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -31.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -31.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is  $64.3 dB\mu V/m$  at 3m in the frequency 2402 MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -30.93dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is  $63.0dB\mu V/m$  at 3m in the frequency 2440MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -32.23dBm which is within the production variation.

The maximum conducted output power specified is -28dBm =0.0016mW

The source- based time-averaging conducted output power

=0. 0016\* Duty cycle mW =0.0016 mW(Duty cycle ≤100%)

=0.0016 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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