## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a AUVIO RUGGED STEREO BLUETOOTH SPEAKER with Bluetooth function. The EUT was powered by the fully-charged DC 7.4V, 2200mAh new rechargeable battery which was charged by USB port (DC 5V). For more detail information pls. refer to the user manual.

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

Bluetooth Version: 4.2 and 3.0, 2.1 with EDR and without BLE mode.

Antenna Type: Integral antenna.

Antenna Gain: 2.0dBi max.

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

The nominal radiated output power (e.i.r.p) specified: 6.0dBm (+/- 3dB)

## According to the KDB 447498:

The maximun peak radiated emission for the EUT is 103.3dBµV/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 8.07dBm which is within the production variation.

The minimum peak radiated emission for the EUT is  $101.1 dB\mu V/m$  at 3m in the frequency 2402 MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 5.87dBm which is within the production variation.

The maximun conducted output power specified is 7.0dBm = 5.01mW The source- based time-averaging conducted output power

- = 5.01 \* Duty factor mW (where Duty Factor≤1)
- = 5.01 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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