## **INTERTEK TESTING SERVICES**

## **RF Exposure**

The equipment under test (EUT) is a Bluetooth Headphones; The EUT is operated by a 3.7Vdc lithium battery which can be charged by USB Port. The EUT will be switched in Aux-in mode once the Aux-in cable is inserted. For more information please refer to the user manual.

Bluetooth function:

Bluetooth Version: 4.0 EDR Antenna Type: Integral Antenna.

Antenna Gain: 0dBi.

Modulation Type: GFSK,  $\Pi/4DQPSK$ , 8DPSK

The nominal conducted output power specified: 0dBm (+/-3dB)
The nominal radiated output power (e.i.r.p) specified: 0dBm (+/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is 98.1dBµV/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 2.9dBm which is within the production variation.

The minimum peak radiated emission for the EUT is  $96.7 dB\mu V/m$  at 3m in the frequency 2441 MHz

The EIRP =  $[(FS*D) ^2 / 30] \text{ mW} = 1.5 \text{dBm}$  which is within the production variation.

The maximun conducted output power specified is 3dBm = 2mW The source- based time-averaging conducted output power

- = 2 \* Duty factor mW (where Duty Factor≤1)
- = 2mW

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.

FCC ID: YJWAX1

Bluetooth function:

Bluetooth Version: 4.0 BLE

Antenna Type: Integral Antenna.

Antenna Gain: 0dBi. Modulation Type: GFSK

The nominal conducted output power specified: 0dBm (+/-3dB)
The nominal radiated output power (e.i.r.p) specified: 0dBm (+/-3dB)

## According to the KDB 447498:

The maximun peak radiated emission for the EUT is  $95.4dB\mu V/m$  at 3m in the frequency 2402MHz

The EIRP =  $[(FS*D) ^2 / 30] \text{ mW} = 0.2dBm$  which is within the production variation.

The minimum peak radiated emission for the EUT is  $94.7dB\mu V/m$  at 3m in the frequency 2440MHz

The EIRP =  $[(FS*D) ^2 / 30] \text{ mW} = -0.5 \text{dBm}$  which is within the production variation.

The maximun conducted output power specified is 3dBm = 2mW
The source- based time-averaging conducted output power

- = 2 \* Duty factor mW (where Duty Factor≤1)
- = 2mW

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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