## INTERTEK TESTING SERVICES

## **Analysis Report**

The equipment under test (EUT) is a Earbuds Bluetooth with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3.7V internal rechargeable battery and can be charged through USB interface. For more detail information pls. refer to the user manual.

Modulation Type: GFSK, π/4DQPSK, 8DPSK Bluetooth Version: 3.0 with EDR function Antenna Type: Integral antenna (Gain: 0 dBi)

The nominal radiated output power (e.i.r.p) specified: 2dBm (Tolerance: +/-3dB) The nominal conducted output power specified: 2dBm (Tolerance: +/-3dB)

## According to the KDB 447498:

The maximum radiated emission for the EUT is  $98.5dB\mu V/m$  at 3m in the frequency  $2.441GHz = [(FS*D) ^2 / 30] mW$ 

= 3.3dBm which is within the production variation

The minimum radiated emission for the EUT is  $96.9 dB\mu V/m$  for at 3m in the frequency  $2.480 GHz = [(FS*D) ^2 / 30] mW$ 

= 1.7dBm which is within the production variation.

The maximun conducted output power specified is 5dBm = 3.2mW The source- based time-averaging conducted output power = 3.2 \* Duty cycle mW <= 3.2 mW (Duty Cycle<=100%)

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.480) mW
- = 9.5 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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