

# INTERTEK TESTING SERVICES

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## RF Exposure

The Equipment Under Test (EUT) is an Wireless Ear Buds Case Heart with Bluetooth 5.0 (BR/EDR Mode) function operating in 2402-2480MHz. The EUT is powered by DC3.7V rechargeable battery or DC 5V through charging Box. The two earbuds have the same hardware. The Bluetooth function does not work when the Earbuds is charging. The Key For more detailed features description, please refer to the user's manual.

Bluetooth Version: 5.0 BR/EDR

Modulation Type: GFSK,  $\pi/4$ -DQPSK and 8-DPSK

Antenna Type: Integral antenna.

Antenna Gain: 1.5dBi.

The nominal conducted output power specified: -9.5dBm (+/-3dB).

The nominal radiated output power (e.i.r.p) specified: -8dBm (+/- 3dB).

According to the KDB 447498 V06:

The maximum peak radiated emission for the EUT is 89.4dB $\mu$ V/m at 3m in the frequency 2441MHz

The EIRP =  $[(FS^*D)^2 / 30]$  mW = -5.83dBm  
which is within the production variation.

The minimum peak radiated emission for the EUT is 85.5dB $\mu$ V/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS^*D)^2 / 30]$  mW = -9.73dBm  
which is within the production variation.

The maximum conducted output power specified is -6.5dBm = 0.2239 mW

The source-based time-averaging conducted output power  
=  $0.2239 * \text{Duty factor mW}$  (where Duty Factor  $\leq 1$ )  
= 0.2239 mW

The SAR Exclusion Threshold Level:

=  $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt(freq. in GHz)}$   
=  $3.0 * 5 / \text{sqrt}(2.480)$  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.