

## INTERTEK TESTING SERVICES

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### RF Exposure

The Equipment Under Test (EUT) is a HUAWEI Wireless Earphone with Bluetooth function operating at 2402-2480MHz. The EUT can be powered by DC 3.7V(1 x 3.7V rechargeable battery) and the Bluetooth function can't operation during charging. For more detailed features description, please refer to the user's manual.

BT 5.0 function:

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal conducted output power is 8.77dBm (tolerance: +/- 1dB).

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

According to the KDB 447498:

The Maximum Conducted Output Power for the EUT is 9.77 dBm = 9.48mW the frequency 2441MHz which is within the production variation.

The Minimum Conducted Output Power for the EUT is 9.52dBm = 8.95mW the frequency 2480MHz which is within the production variation.

The maximum conducted output power specified is 9.77dBm=9.48 mW

The source- based time-averaging conducted output power  
 $= 9.48 * \text{Duty cycle mW} \leq 9.48\text{mW} (\text{Duty cycle} \leq 100\%)$

The SAR Exclusion Threshold Level:

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

$= 3.0 * 5 / \text{sqrt} (2.480) \text{ mW}$

$= 9.53 \text{ mW}$

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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BLE function:

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal conducted output power is 7.0dBm (tolerance: +/- 1dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum Conducted Output Power for the EUT is 7.36 dBm = 5.45mW  
the frequency 2440MHz which is within the production variation.

The Minimum Conducted Output Power for the EUT is 6.84dBm = 4.83mW  
the frequency 2402MHz which is within the production variation.

The maximum conducted output power specified is 8.0dBm = 6.31mW

The source- based time-averaging conducted output power  
=  $6.31 \times \text{Duty cycle mW}$  = 6.31mW (Duty cycle =100%)

The SAR Exclusion Threshold Level:

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

=  $3.0 \times 5 / \sqrt{2.480}$  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.