

# INTERTEK TESTING SERVICES

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## RF Exposure

The equipment under test (EUT) is a Wireless Gaming Headset operating at 2.4G Band. The EUT is powered by DC 3.7V rechargeable battery or adaptor with DC 5V, 400mA input. The Bluetooth function will be disabled while charging. The EUT will stop transmitting once the Aux in cable is connected. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 0.0dBi Max

The nominal conducted output power specified: -15.0dBm (+/-2dB)

The nominal radiated output power (e.i.r.p) specified: -15.0dBm (+/- 2dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 81.5dBμV/m at 3m in the frequency 2439MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -13.73dBm  
which is within the production variation.

The minimum peak radiated emission for the EUT is 78.5dBμV/m at 3m in the frequency 2478MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -16.73dBm  
which is within the production variation.

The maximum conducted output power specified is -13.0dBm = 0.05mW

The source- based time-averaging conducted output power  
= 0.05 \* Duty factor mW (where Duty Factor  $\leq 1$ )  
= 0.05mW

The SAR Exclusion Threshold Level:

=  $3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$   
=  $3.0 * 5 / \sqrt{(2.478)}$  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.