

# INTERTEK TESTING SERVICES

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## Analysis Report

The equipment under test (EUT) is a VIDEO GAMING CHAIR with Bluetooth 3.0+EDR operating 2402-2480MHz. The EUT is powered by AC/DC adaptor (Input AC 100-240V, 50/60Hz, 0.5A; Output DC12V, 1000mA). For more detailed features description, please refer to the user's manual.

Modulation Type: GFSK, Π/4DQPSK, 8DPSK

Antenna Type: Integral antenna (Gain: 0 dBi)

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

The nominal conducted output power specified: 0dBm (Tolerance: +/-3dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 97.0dB $\mu$ V/m at 3m in the frequency 2.441GHz =  $[(FS^*D)^2 / 30]$  mW  
= 1.8dBm which is within the production variation

The minimum radiated emission for the EUT is 96.1dB $\mu$ V/m for at 3m in the frequency 2.480GHz =  $[(FS^*D)^2 / 30]$  mW  
= 0.9dBm which is within the production variation.

The maximum conducted output power specified is 3dBm = 2.0mW

The source- based time-averaging conducted output power  
= 2.0 \* Duty cycle mW <= 2.0 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.