INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Wireless Gaming Headset operating at 2.4G Band. The EUT is powered by DC 5V from USB port. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK Antenna Gain: 1.5dBi Max

The nominal conducted output power specified: -17.5dBm (+/-1dB)
The nominal radiated output power (e.i.r.p) specified: -16.0dBm (+/- 1dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is $80.1 dB\mu V/m$ at 3m in the frequency 2478MHz

The EIRP = $[(FS*D)^2 / 30]$ mW = -15.13dBm which is within the production variation.

The minimum peak radiated emission for the EUT is $78.6 dB\mu V/m$ at 3m in the frequency 2403 MHz

The EIRP = $[(FS*D)^2 / 30] \text{ mW} = -16.63 \text{dBm}$ which is within the production variation.

The maximum conducted output power specified is -16.5dBm = 0.02mW The source- based time-averaging conducted output power

- = 0.02 * Duty factor mW (where Duty Factor≤1)
- = 0.02 mW

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(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.

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