INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Wireless Keyboard with 2.4G operating in 2402-2480MHz. The EUT is powered by DC 1.5V (1 x 1.5V AA battery). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna Antenna Gain: -1.52 dBi max Modulation Type: GFSK

The nominal conducted output power specified: -4.48dBm (+/-2dB). The nominal radiated output power (e.i.r.p) specified: -6dBm (+/- 2dB).

According to the KDB 447498 V07:

The Maximum peak radiated emission for the EUT is \$89.6\$ dBµV/m at 3m in

the frequency 2402MHz

The EIRP = $[(FS*D)^2 / 30]$ mW = -5.63dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $87.8 \text{ }dB\mu\text{V/m}$ at 3m in

the frequency 2440MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -7.43dBm which is within the production variation.

The maximum conducted output power specified is -2.48dBm= 0.565mW

The maximum radiated output power specified is -4dBm= 0.398mW

The SAR Exclusion Threshold Level:

$$P_{\text{th}}(\text{mW}) = \text{ERP}_{20\text{cm}} * (d/20\text{cm})^{x} \qquad (X = \frac{-\log_{10} \left(\frac{60}{ERP_{20} \text{ cm}\sqrt{f}}\right)}{2})$$

$$= 3060 * (0.5/20)^{1.9} \text{ mW}$$

$$= 2.72 \text{ mW}$$

Since max. conducted output power and effective radiated power (ERP) is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

Note: EIRP is higher than ERP, thus EIRP is compared with the Exclusion Threshold.

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