## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a 7W RGB Bulb operating at 2410MHz. The EUT is powered by AC 120V/60Hz. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK Antenna Gain: 0dBi Max

The nominal radiated output power (e.i.r.p) specified: 2dBm (Tolerance: +/- 3dB)

The nominal conducted output power specified: 2dBm (Tolerance: +/- 3dB)

## According to the KDB 447498:

The maximum peak radiated emission for the EUT is  $95.1dB\mu V/m$  at 3m in the frequency 2410MHz.

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -0.13dBm which is within the production variation.

The maximun conducted output power specified is 5dBm = 3.16mW The source- based time-averaging conducted output power

- = 3.16 \* Duty factor mW (where Duty Factor≤1)
- = 3.16 mW

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.410) mW
- = 9.66 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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