## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a LIGHTING CONTROL SWITCH with wireless control function. The EUT was powered by AC 120V-277V, 50/60Hz. For more detail information pls. refer to the user manual.

Modulation Type: N/A

Antenna Type: Integral antenna.

Antenna Gain: 0dBi max.

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

## According to the KDB 447498:

The maximun peak radiated emission for the EUT is  $92.1 dB\mu V/m$  at 3m in the frequency 5800 MHz

The EIRP =  $[(FS*D)^2 / 30]$  mW = -3.1dBm which is within the production variation.

The maximun conducted output power specified is -1dBm = 0.79mW
The source- based time-averaging conducted output power
= 0.79\* Duty Cycle mW (where Duty Cycle < 100%) < 0.79mW

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (5.8) mW
- = 6.23 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.

FCC ID: QGH-OSM3D-V1W