RF Exposure

The equipment under test (EUT) is a 6.56FT 5V RGB Strip + RF Strip Controller operating at 2410MHz. The EUT is powered by DC 5V. The USB port is only use for charging purpose. 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: -6dBm (Tolerance: +/- 3dB) The nominal conducted output power specified: -6dBm (Tolerance: +/- 3dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is $87.3dB\mu V/m$ at 3m in the frequency 2410MHz. The EIRP = [(FS*D) ^2 / 30] mW = -7.93dBm which is within the production variation.

The maximun conducted output power specified is -3dBm = 0.5mWThe source- based time-averaging conducted output power = 0.5 * Duty factor mW (where Duty Factor ≤ 1) = 0.5 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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