RF Exposure

The equipment under test (EUT) is a Drone Stunt Glow LED 5inch operating at 2.4G Band. The EUT can be powered by DC 4.5V (3 x 1.5V AAA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna Modulation Type: GFSK Antenna Gain: 0dBi The nominal conducted output power specified: -8.0 dBm (±3dB) The nominal radiated output power (e.i.r.p) specified: -8.0 dBm (±3dB)

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 87.1 dB μ V/m at 3m in the frequency 2465MHz The EIRP = [(FS*D) ^2 / 30] mW = -8.13dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is 85.7 dB μ V/m at 3m in the frequency 2420MHz The EIRP = [(FS*D) ^2 / 30] mW = -9.53dBm which is within the production variation.

The maximum conducted output power specified is -5.0dBm= 0.316mW The source- based time-averaging conducted output power =0.316* Duty cycle mW <0.316 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

 $P_{\text{th}}(\text{mW}) = \text{ERP}_{20\text{cm}} * (d/20\text{cm})^{x} \quad (X = -\log_{10}\left(\frac{60}{\text{ERP}_{20} \text{ cm}\sqrt{f}}\right))$ $= 3060 * (0.5/20)^{1.9} \text{ mW}$ = 2.72 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.

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 20.2174msEffective period of the cycle = $217.4\mu s x1 = 0.2174ms$ DC = 0.2174ms / 20.2174ms = 0.0108 or 1.08%

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