INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a control unit for the DRONE FORCE-VULTURE STRIKE model: YW858170 operating at 2.4GHz band. It is 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.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -10.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -10.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $87.5 dB\mu V/m$ at 3m in the frequency 2405 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -7.73dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $84.2 dB\mu V/m$ at 3m in the frequency 2475 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -11.03dBm which is within the production variation.

The maximum conducted output power specified is -7dBm = 0.2mW The source- based time-averaging conducted output power = 0.2* Duty cycle mW <0.2 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.475) mW
- = 9.53 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 = 3.16ms

Effective period of the cycle = 480us = 0.48ms

DC = 0.48 ms / 3.16 ms = 0.1519 or 15.19%

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