INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is an Drone Thunderbolt Jet X2 operating at 2.4G Band. The EUT can be powered by DC 6.0V (4 x 1.5V AA 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: 8.0dBm (tolerance: +/- 3dB).

The normal conducted output power is 8.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is $105.4 dB\mu V/m$ at 3m in the frequency 2429 MHz

The EIRP = $[(FS*D)^2 / 30]$ mW = 10.17dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $102.4 dB\mu V/m$ at 3m in the frequency 2453 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = 7.17dBm which is within the production variation.

The maximum conducted output power specified is 11.0dBm= 12.589mW The source- based time-averaging conducted output power =12.589* Duty cycle mW =12.589 *0.1892<2.382mW(Duty cycle <100%)

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

The duration of one cycle = 7.5072ms Effective period of the cycle = 1420.3µs x1 = 1.4203ms DC = 1.4203ms | 7.5072ms = 0.1892 or 18.92%

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)

= 3.0 * 5 / sqrt (2.453) mW

= 9.58 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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