## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a Drone Thunderbolt Jet X operating at 2.4G Band. The EUT can be powered by DC 4.5V (3 x 1.5V AA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Modulation Type: GFSK. Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: 0.0dBm (tolerance: +/- 3dB).

The normal conducted output power is 0.0dBm (tolerance: +/- 3dB).

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 95.3 dBµV/m at 3m in the frequency 2477MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 0.07dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is  $95.0 dB\mu V/m$  at 3m in the frequency 2447MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -0.23dBm which is within the production variation.

The maximum conducted output power specified is 3dBm=1.995mW The source- based time-averaging conducted output power =1.995\* Duty cycle mW <1.995 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

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

= 3.0 \* 5 / sqrt (2.477) 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 = 12.1739ms Effective period of the cycle =  $1666.7\mu$ s = 1.6667ms DC = 1.6667ms / 12.1739ms = 0.1369 or 13.69%

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