## INTERTEK TESTING SERVICES

## **RF Exposure**

The Equipment under Test (EUT) is a Control unit for 2.4G Helicopter model: X4 operating at 2.4GHz band. It is 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: 0.0dBm (tolerance: +/- 4dB).

The normal conducted output power is 0.0dBm (tolerance: +/- 4dB).

Modulation Type: GFSK.

## According to the KDB 447498:

The Maximum peak radiated emission for the EUT is  $95.2dB\mu V/m$  at 3m in the frequency 2442MHz

The EIRP =  $[(FS*D)^2 / 30]$  mW = -0.03dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is  $91.5 dB\mu V/m$  at 3m in the frequency 2474 MHz

The EIRP =  $[(FS*D)^2 / 30]$  mW = -3.73dBm which is within the production variation.

The maximum conducted output power specified is 4.0dBm = 2.5mW
The source- based time-averaging conducted output power
= 2.5\* Duty cycle mW < 2.5 mW (Duty cycle<100%)

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.474) mW
- $= 9.5 \, \text{mW}$

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

The duration of one cycle = 4.0290ms

Effective period of the cycle = 0.6377ms x 1 = 0.6377ms

DC = 0.6377ms / 4.0290ms = 0.158277 or 15.8277%

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