

## INTERTEK TESTING SERVICES

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### RF Exposure

The Equipment under Test (EUT) is a Control unit for RC DRONE model: X601H 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: 6.0dBm (tolerance: +/- 3dB).

The normal conducted output power is: 6.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 103.3dB $\mu$ V/m at 3m in the frequency 2453MHz

The EIRP = [(FS\*D) ^2 / 30] mW = 8.07dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 102.4dB $\mu$ V/m at 3m in the frequency 2478MHz

The EIRP = [(FS\*D) ^2 / 30] mW = 7.17dBm

which is within the production variation.

The maximum conducted output power specified is 9.0dBm = 7.9mW

The source- based time-averaging conducted output power

= 7.9\* Duty Cycle mW < 7.9mW (Duty Cycle<100%)

The SAR Exclusion Threshold Level:

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

= 3.0 \* 5 / sqrt (2.478) mW

= 9.53mW

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 duration of one cycle = 4.0870ms

Effective period of the cycle = 0.3768ms x 1=0.3768ms

DC = 0.3768ms / 4.0870ms = 0.0922 or 9.22%