

## INTERTEK TESTING SERVICES

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### RF Exposure

The Equipment under Test (EUT) is a receiver unit for the 2.4G 4.5CH R/C MINI DRONE W/GYROCOPE operating at 2.4GHz band. It is powered by DC 3.7V (1 x 3.7V Rechargeable battery). 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: -50.0dBm (tolerance: +/- 3dB).

The normal conducted output power is: -50.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 45.0dBμV/m at 3m in the frequency 2441MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -50.23dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 43.2dBμV/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -52.03dBm

which is within the production variation.

The maximum conducted output power specified is -47dBm = 0.00002mW

The source- based time-averaging conducted output power

=  $0.00002 \cdot \text{Duty cycle}$  mW < 0.1 mW (Duty cycle < 100%)

The SAR Exclusion Threshold Level:

=  $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

=  $3.0 \cdot 5 / \sqrt{2.480}$  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 = 43.609ms

Effective period of the cycle = 42.319ms

DC =  $42.319\text{ms} / 43.609\text{ms} = 0.9704$  or 97.04%

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