

## INTERTEK TESTING SERVICES

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### RF Exposure

The equipment under test (EUT) is an Drone Sky Propeller operating at 2.4G Band. The EUT can be powered by DC 3.7V (1 x 3.7V rechargeable battery). And the RF function will be shut down and it can't transmit RF signals while charging. For more details information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -19.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -19.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 77.1dB $\mu$ V/m at 3m in the frequency 2449MHz

The EIRP =  $[(FS^*D)^2 / 30] \text{ mW} = -18.13\text{dBm}$   
which is within the production variation.

The Minimum peak radiated emission for the EUT is 75.3dB $\mu$ V/m at 3m in the frequency 2476MHz

The EIRP =  $[(FS^*D)^2 / 30] \text{ mW} = -19.93\text{dBm}$   
which is within the production variation.

The maximum conducted output power specified is -16.0dBm= 0.025mW

The source- based time-averaging conducted output power  
=0.025mW

The SAR Exclusion Threshold Level:

=  $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt(freq. in GHz)}$   
=  $3.0 * 5 / \text{sqrt}(2.476) \text{ mW}$   
= 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.

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