

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a SWGAS MOUSE DROID RC operating at 2.4G Band. The EUT can be powered by DC 6.4V rechargeable battery. Once use the USB cable charging to the EUT, the wireless function will be disabled. 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: -1.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -1.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 96.0dBμV/m at 3m in the frequency 2472MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 0.77dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 92.0dBμV/m at 3m in the frequency 2447MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -3.23dBm

which is within the production variation.

The maximum conducted output power specified is 2dBm= 1.585mW

The source- based time-averaging conducted output power
=1.585mW

The SAR Exclusion Threshold Level:

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

= $3.0 \cdot 5 / \sqrt{2.472}$ mW

= 9.54 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.