INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is an Toy RC Gravity Rover Replaceable Batteries 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 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: -13.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -13.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 83.7dBµV/m at 3m in the frequency 2442MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -11.53dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $80.8 dB\mu V/m$ at 3m in the frequency 2405MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -14.43dBm which is within the production variation.

The maximum conducted output power specified is -10.0dBm= 0.100mW

The source- based time-averaging conducted output power
=0.100mW

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.478) 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.

FCC ID: 2AWLB-TY002R