INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Control unit for REMOTE CONTROL FLIGHT VEHICLE SERIES model: LS-121operating 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: -15.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -15.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 80.3dBµV/m at 3m in the frequency 2445MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -14.93dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $77.3 dB\mu V/m$ at 3m in the frequency 2475 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -17.93dBm which is within the production variation.

The maximum conducted output power specified is -12.0dBm = 0.063mW

The source- based time-averaging conducted output power

= 0.063* Duty Cycle mW < 0.1 mW (Duty Cycle<100%)

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.475) mW
- = 9.5 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 duration of one cycle = 3.3478ms Effective period of the cycle = 463.8us DC = 0.4638ms / 3.3478ms = 0.1385 or 13.85%

FCC ID: 2ACZLLS-121