INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Control unit for R/C BOAT model: BY32342-24GT operating at 2.4GHz band. It is powered by DC 6.0V (4 x 1.5V AAA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 2dBi.

The normal radiated output power (e.i.r.p) is: -4.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -6.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $94.1 dB\mu V/m$ at 3m in the frequency 2406 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -1.13dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is 90.9 dB μ V/m at 3m in the frequency 2414MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -4.33dBm which is within the production variation.

The maximum conducted output power specified is ⊞EdBm = € mW The source- based time-averaging conducted output power

= €± * Duty Cycle mW < €± mW (Duty Cycle < 100%)

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.414) mW
- = 9.Ï 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: BY32342-24GT