

## INTERTEK TESTING SERVICES

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### RF Exposure

The Equipment under Test (EUT) is a Boat unit for R/C BOAT model: BY32182-24GR operating at 2.4GHz band. It is powered by DC 9.6V (1 x 9.6V Rechargeable battery). 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: -9.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -11.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 87.2dB $\mu$ V/m at 3m in the frequency 2414MHz

The EIRP = [(FS\*D) ^2 / 30] mW = -8.0dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 85.8dB $\mu$ V/m at 3m in the frequency 2410MHz

The EIRP = [(FS\*D) ^2 / 30] mW = -9.4dBm

which is within the production variation.

The maximum conducted output power specified is -8.0dBm = 0.16mW

The source- based time-averaging conducted output power

= 0.16 \* Duty Cycle mW < 0.16 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

= 9.7 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.