

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Mini Boat operating at 2.4G Band. The EUT can be powered by DC 4.5V (3 x 1.5V AA batteries). For more detail information pls. refer to the user manual

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal peak radiated output power (e.i.r.p) is: -11.0dBm (tolerance: +/- 3dB).

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

Modulation Type: GFSK.

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 85.8 dB μ V/m at 3m in the frequency 2408MHz

The EIRP = [(FS*D) ^2 / 30] mW = -9.43dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 82.0dB μ V/m at 3m in the frequency 2434MHz

The EIRP = [(FS*D) ^2 / 30] mW = -13.23dBm

which is within the production variation.

The maximum conducted output power specified is -8dBm= 0.158mW

The source- based time-averaging conducted output power =0.158mW

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.467) 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.