

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a RF 2.4GHz Remote operating at 2410MHz. The EUT is powered by DC 3.0V (2 x 1.5V AAA battery). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 0dBi Max

The nominal radiated output power (e.i.r.p) specified: 2dBm (Tolerance: +/- 3dB)

The nominal conducted output power specified: 2dBm (Tolerance: +/- 3dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 100.2dB μ V/m at 3m in the frequency 2410MHz.

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 4.97dBm

which is within the production variation.

The maximum conducted output power specified is 5dBm = 3.16mW

The source-based time-averaging conducted output power

= 3.16 * Duty factor mW (where Duty Factor \leq 1)

= 3.16 mW

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.410) mW

= 9.66 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.