

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Remote Control with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3.0V(2*1.5V AAA batteries), For more detail information pls. refer to the user manual.

Bluetooth Version: 5.0 BLE (Single Mode)

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 0.0dBi Max

The nominal conducted output power specified: 1.0dBm (+/-2dB)

The nominal radiated output power(e.i.r.p) specified: 1.0dBm (+/-2dB)

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 97.6 dB μ V/m at 3m in the frequency 2440MHz

The EIRP = [(FS*D) ^2 / 30] mW = 2.37dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 94.6 dB μ V/m at 3m in the frequency 2480MHz

The EIRP = [(FS*D) ^2 / 30] mW = -0.63dBm
which is within the production variation.

The maximum conducted output power specified is 3dBm = 2.0mW

The source- based time-averaging conducted output power

= 2.0 * Duty factor mW (where Duty Factor \leq 1)

= 2.0 mW

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.480) 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.