

INTERTEK TESTING SERVICES

Analysis Report

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: 4.2 Single Mode (BLE)

Modulation Type: GFSK

Antenna Type: Integral antenna (Gain: -3.0 dBi)

The nominal conducted output power specified: -4.0dBm (Tolerance: +/-2dB)

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 91.0 dB μ V/m at 3m in the frequency 2480MHz

The EIRP = $[(FS * D)^2 / 30]$ mW = -4.23dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 90.6 dB μ V/m at 3m in the frequency 2440MHz

The EIRP = $[(FS * D)^2 / 30]$ mW = -4.63dBm
which is within the production variation.

The maximum conducted output power specified is -2.0dBm = 0.63mW
The source- based time-averaging conducted output power
= 0.63 * Duty cycle mW \leq 0.63 mW (Duty Cycle \leq 100%)

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.