

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a Suitcase Lock with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3.0V battery, For more detail information pls. refer to the user manual.

Bluetooth Version: 4.0 Single Mode (BLE)

Modulation Type: GFSK

Antenna Type: Integral antenna (Gain: 0 dBi)

The nominal conducted output power specified: -3.0dBm (Tolerance: +/-5dB)

According to the KDB 447498:

The maximum conducted emission for the EUT is -2.17dBm for at the frequency 2.440GHz which is within the production variation

The minimum conducted emission for the EUT is -2.67dBm at the frequency 2.480GHz which is within the production variation

The maximum conducted output power specified is 2.0dBm = 1.58mW

The source- based time-averaging conducted output power
= 1.58 * Duty cycle mW <= 1.58 mW (Duty Cycle<=100%)

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.480) 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.