

# INTERTEK TESTING SERVICES

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## RF Exposure

The equipment under test (EUT) is a Remote Control with BT5.0 (Single Mode) 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

Modulation Type: GFSK

Antenna Type: Integral antenna.

Antenna Gain: 2dBi.

The nominal conducted output power specified: -1dBm (+/-2dB).

The nominal radiated output power (e.i.r.p) specified: 1dBm (+/- 2dB).

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 96.9dB $\mu$ V/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS * D)^2 / 30]$  mW = 1.67dBm  
which is within the production variation.

The minimum peak radiated emission for the EUT is 95.4dB $\mu$ V/m at 3m in the frequency 2440MHz

The EIRP =  $[(FS * D)^2 / 30]$  mW = 0.17dBm  
which is within the production variation.

The maximum conducted output power specified is 1dBm = 1.26 mW

The source- based time-averaging conducted output power  
= 1.26 \* Duty factor mW (where Duty Factor  $\leq$  1)  
= 1.26 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.