

## RF Exposure Requirements

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Product Description: Battery Powered Bluetooth Enabled Wireless Switch

Model No.: IDEV0020

FCC ID: 2ABDJ-IDEV0020

According to the KDB 447498 D01 V06, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

### **Bluetooth: V4.0 LE**

Tx frequency range: 2402 ~ 2480 MHz

Type of Modulation: GFSK

Antenna Type: SMD antenna (Gain: 2.1 dBi)

The maximum conducted output power: -0.32 dBm

The maximum conducted output power specified is 0 dBm = 1.0 mW

The source-based time-averaging conducted output power

=  $1.0 \times \text{Duty cycle mW} = 0.8979 \text{ mW}$  (Duty Cycle = 89.79%)

The SAR Exclusion Threshold Level:

=  $3.0 \times (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

=  $3.0 \times 5 / \sqrt{2.480} \text{ mW}$

= 9.5 mW

Source-based time-averaged Conducted output power is  $0.8979 \text{ mW} < 9.5 \text{ mW}$

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.