## **RF** Exposure Requirements

Product Description: Wifi Wall Model No.: Wifi Wall 2.4GHZ FCC ID: 2ASILWIFIWALL

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances  $\leq$  50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation 17
- The result is rounded to one decimal place for comparison

## **Calculation Result:**

## Wi-Fi

Tx frequency range: 2412-2462MHz Min. test separation distance: 5mm

Maximum Conducted Output Power: 9.67dBm

Tune-Up output power: 9.8dBm

RF channel transmit frequency: 2462MHz

Result: 3.0 Limit: 3.0

## **Bluetooth**

Tx frequency range: 2402-2480MHz Min. test separation distance: 5mm

Maximum Conducted Output Power: -1.002dBm

Tune-Up output power: 0dBm

RF channel transmit frequency: 2480MHz

Result: 0.3 Limit: 3.0

Wi-Fi and Bluetooth can't transmit at the same time.

The exclusion thresholds is  $3.0 \le 3$ , so the transmitter complies with the RF exposure requirements and the SAR is not required.