## **RF** Exposure Requirements

Product Description: 2.4GHz WIRELESS ACTIVE RFID TAG

Model No.: HKRAT-RT03, HKRAT-RT03-\*\*\*\* (\*=0, H, I, M, R, T, Z)

FCC ID: XNOHKRAT-RT03

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:**

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

Maximum Conducted Output Power: -0.106dBm

Tune-Up output power: 0dBm

RF channel transmit frequency: 2480MHz

Result: 0.3 Limit: 3.0

The exclusion thresholds is 0.3 < 3, so the transmitter complies with the RF exposure requirements and the SAR is not required.