

## RF Exposure Requirements

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Product Description:Bluetooth Machine core

Model No.:ZD-9688

FCC ID:2AQRO-ZD-9688

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:

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

-  $f(\text{GHz})$  is the RF channel transmit frequency in GHz

- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

- The result is rounded to one decimal place for comparison

### Calculation Result:

Tx frequency range:2402MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:-0.62dBm(0.867mW)

Tune-Up output power: 2dBm(1.58mW)

RF channel transmit frequency:2402MHz

Result: 0.2

Limit: 3.0

Tx frequency range:2442MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:0.95dBm(1.245 mW)

Tune-Up output power: 2dBm(1.58mW)

RF channel transmit frequency:2442MHz

Result: 0.2

Limit: 3.0

Tx frequency range:2480MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:-0.53dBm(0.885 mW)

Tune-Up output power: 2dBm(1.58mW)

RF channel transmit frequency:2480MHz

Result: 0.2

Limit: 3.0

The exclusion thresholds is  $0.31 < 3$ , so the transmitter complies with the RF exposure requirements and the SAR is not required.