## **RF** Exposure Requirements

Product Description:BLUETOOTH SPEAKER

Model No.:S91,S90,J11,J12,J15,J16,J21,J23,J25

FCC ID:2AQRZ-S91

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:2402MHz Min. test separation distance: 5mm

Maximum Conducted Output Power: 0.38dBm(1.091mW)

Tune-Up output power: 4dBm(2.5mW)
RF channel transmit frequency:2402MHz

Result: 0.77 Limit: 3.0

Tx frequency range:2442MHz Min. test separation distance: 5mm

Maximum Conducted Output Power:1.92dBm(1.556 mW)

Tune-Up output power: 4dBm(2.5mW) RF channel transmit frequency:2442MHz

Result: 0.78 Limit: 3.0

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

Maximum Conducted Output Power:0.49dBm(1.119 mW)

Tune-Up output power: 4dBm(2.5mW) RF channel transmit frequency:2480MHz

Result: 0.79 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.