

RF Exposure Requirements

Product Description:Bluetooth Body Fat Scale

Model No.:BT952,BT951,BT908,BT928,BT828,BT903,BT904,BT901,BT936,BT950

FCC ID:2ARE8-BT952

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 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 ≤ 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 calculation¹⁷

- 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:-1.71dBm(0.67mW)

Tune-Up output power: 0dBm(1mW)

RF channel transmit frequency:2402MHz

Result: 0.31

Limit: 3.0

Tx frequency range:2442MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:-0.37dBm(0.92mW)

Tune-Up output power: 0dBm(1mW)

RF channel transmit frequency:2442MHz

Result: 0.31

Limit: 3.0

Tx frequency range:2480MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:-1.82dBm(0.66mW)

Tune-Up output power: 0dBm(1mW)

RF channel transmit frequency:2480MHz

Result: 0.31

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.