

## RF Exposure evaluation

FCC ID: 2ASRB-M200

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

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

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

Worse case is as below:

For BLE: [2440MHz 3.24dBm (2.1mW) output power]

$$(2.1\text{mW} / 5\text{mm}) \cdot [\sqrt{2.440(\text{GHz})}] = 0.658 < 3.0 \text{ for 1-g SAR}$$

For BT: [2441MHz 5.50dBm(3.55mW) output power]

$$(3.55\text{mW} / 5\text{mm}) \cdot [\sqrt{2.441(\text{GHz})}] = 1.109 < 3.0 \text{ for 1-g SAR}$$

Then SAR evaluation is not required