

RF exposure letter

FCC-ID: 2AJNH-WALLI RF Exposure evaluation

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 ≤ 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

BT 4.0 Rated RF Max power output

1、 2402MHz : Max power= 3.6dBm =2.291mW

$(2.291\text{mW} / 5\text{mm}) \cdot [\sqrt{2.402(\text{GHz})}] = 0.710 < 3.0$ for 1-g SAR

2、 2440MHz : Max power= 3.0dBm =1.995mW

$(1.995\text{mW} / 5\text{mm}) \cdot [\sqrt{2.440(\text{GHz})}] = 0.623 < 3.0$ for 1-g SAR

3、 2480MHz : Max power= 3.1dBm =2.042mW

$(2.042\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480(\text{GHz})}] = 0.643 < 3.0$ for 1-g SAR

Then SAR evaluation is not required.