



## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	X6BT Bluetooth USB-Powered Card Reader Writer
Model Name	X6BT Bluetooth
Series Model	X6BT01, X6BT02, X6BT03, X6BT04, X6BT05, X6BT06, X6BT07
FCC ID	2A9UI-X6BT

### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  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

### 3. CALCULATION

$P_t = -0.689\text{dBm} = 0.85\text{mW}$

The value of the Maximum output power  $P_t$  is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation  $\text{SAR} = (0.85\text{mW} / 5\text{mm}) \cdot [\sqrt{2.440\text{GHz}}] = 0.27 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

### 4. CONCLUSION

The SAR evaluation is not required.

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