

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	PUREMIC Wireless Microphone
Model Name	Q1 Pro
FCC ID	2A7ZR-Q1PRO

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 ≤ 50 mm are determined by:

[(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 ≤ 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

3. CALCULATION

BR/EDR

Pt= -0.434dBm=0.90mW

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 SAR= $(0.90 \text{mW} / 5 \text{mm}) \cdot [\sqrt{2.441 \text{GHz}}] = 0.28 < 3.0 \text{ for } 1-\text{g SAR}$ and ≤ 7.5 for 10-g extremity SAR.

BLE

 $P_{t} = -0.669 dBm = 0.86 mW$

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 SAR=(0.86mW/5mm). $[\sqrt{2.440\text{GHz}}]=0.27<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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