

## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	Body-worn Wireless Microphone
Model Name	UHF-6000BP
FCC ID	2AE6GUHF-6000BP-R2

### 2. EVALUATION METHOD

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:

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

According to the follow transmitter output power ( $P_t$ ) formula:

$$P_t = 9.89 \text{ dBm} = 9.75 \text{ mW}$$

The result for RF exposure evaluation

$$\text{SAR} = (9.75 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{0.5375(\text{GHz})}] = 1.43 < 3.0 \text{ for 1-g SAR}$$

### 4. CONCLUSION

The SAR evaluation is not required.