## RF EXPOSURE EVALUATION

#### 1. PRODUCT INFORMATION

Product Description	Wireless microphone
Test Model	YC-WM500X1,YC-WM500X2,YC-WM500C1,YC-WM500C2,YC-WM500A1, YC-WM500A2,YC-WM500XCA,YC-WM100,YC-WM200,YC-WM300, YC-WM400,YC-WM700, YC-WM900
FCC ID	2AWQ3-WM500X1

# 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 ≤ 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  $\le 7.5$  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

According to the follow transmitter output power ( $P_t$ ) formula :  $P_t$ = ( $E \times d$ )  $^2$ / ( $30 \times g_t$ )  $P_t$ =transmitter output power in watts  $g_t$ =numeric gain of the transmitting antenna (unitess) E=electric field strength in V/m d=measurement distance in meters (m)

TX Max Power P<sub>t</sub>=9.87dBm=8.705mW

The result for RF exposure evaluation SAR= $(8.705 \text{mW} / 5 \text{mm}) . [\sqrt{0.4991} (\text{GHz})] = 1.23 < 3.0 \text{ for } 1-\text{g SAR}$ 

## 4. CONCLUSION

The SAR evaluation is not required.