

## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	Bluetooth Headset
Model Name	MG-1 BT, TT-HFB-RB, Ranger, MG-2, MG-3, MG-4, MG-5, MG-6, MG-7, MG-8, MG-9
FCC ID	2AMOO-MG-2

### 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR.}$

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

### 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 (unitless)

$E$ =electric field strength in V/m

$d$ =measurement distance in meters (m)

$$P_t = 4.688 \text{ dBm} = 2.94 \text{ mW}$$

The result for RF exposure evaluation

$$\text{SAR} = (2.94 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.48(\text{GHz})}] = 0.93 < 3.0 \text{ for 1-g SAR}$$

### 4. CONCLUSION

The SAR evaluation is not required.