

## RF Exposure evaluation

Product Description: Wireless Headset  
Model Number: BH162A  
FCC ID: 2AMH2BH162A

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: [(max. power of channel, including tune-up tolerance, mW)/(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

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)

According to the above test data,

$$P_t = 8.78 \text{ dBm} = 7.55 \text{ mW}$$

The result is rounded to one decimal place for comparison

Worse case is as below: [2441MHz -3.0mW output power]

$$(7.55 \text{ mW} / 5 \text{ mm}) \cdot \sqrt{2.441 (\text{GHz})} = 2.36 < 3.0 \text{ for 1-g SAR}$$

Then SAR evaluation is not required

**NOTE:** For the maximum power, you can refer FCC test report.