

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Hearing Amplifiers,Hearing Aid
Model Name	HB15, HB16, HB17, HB19, HB20, HB21, HB22
FCC ID	PWK-HB15

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:

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

BT (BLE):

$P_t=1.460\text{dBm}=1.40\text{mW}$

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 $\text{SAR}=(1.40\text{mW} /5\text{mm}) \cdot [\sqrt{2.44(\text{GHz})}]= 0.44<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BT (BR/EDR):

$P_t=2.027\text{dBm}=1.59\text{mW}$

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 $\text{SAR}=(1.59\text{mW} /5\text{mm}) \cdot [\sqrt{2.48(\text{GHz})}]= 0.50<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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