
RF EXPOSURE

1. Information

- 1) Company Name : BioSound Lab Co., Ltd.
- 2) Product Name : Hearing Enhancer
- 3) Model Name : HA200
- 4) FCC ID : Q32HA200

2. RF Exposure

According to §KDB 447 498 D01 V04 4(c)(iii), (1) Hand SAR is required for hand-held and hand-operated devices with output power $> 1000[f(\text{GHz})]^{-0.5}$ mW that are designed with the hand operating closer than 5cm from the antenna during normal use. (2) Extremity SAR is required for wrist, feet or ankle worn devices. (3) Body SAR is required for hand-held and hand-operated or wrist, feet and ankle worn devices that operate closer than 5cm to the body and the output power is $> 300[f(\text{GHz})]^{-0.5}$ mW.

2.1 Technical Information:

Antenna Type: Chip antenna

Antenna Gain: 1.99dBi

Maximum Transmitter Conducted Power: -4.02dBm, 0.39mW

Maximum System EIRP: 0.09dBm, 1.02mW

2.2 RF Exposure Compliance Justification:

1) Hand SAR

Model S1 is exempt from SAR based on the output power (higher of conducted or EIRP) being $< 1000*[f(\text{GHz})]^{-0.5}$ mW. SAR threshold and maximum equipment EIRP calculations are provided below.

MPE calculations are also provided for satisfying mobile RF exposure conditions.

$$\text{SAR Threshold} = 1000*[2.441]^{-0.5}\text{mW} = 640.053\text{mW}$$

$$\text{Maximum Equipment EIRP} = 1.02\text{mW}$$

2) Body SAR

Model S1 is exempt from SAR based on the output power (higher of conducted or EIRP) being $< 300*[f(\text{GHz})]^{-0.5}$ mW. SAR threshold and maximum equipment EIRP calculations are provided below.

MPE calculations are also provided for satisfying mobile RF exposure conditions.

$$\text{SAR Threshold} = 300*[2.441]^{-0.5}\text{mW} = 192.016\text{mW}$$

$$\text{Maximum Equipment EIRP} = 1.02\text{mW}$$

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