



RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Wireless Headphone
Model Name	A3949
FCC ID	2AOKB-A3949

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

BR/EDR(Left):

$P_t = 4.192 \text{ dBm} = 2.625 \text{ mW}$

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 $\text{SAR} = (2.625 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.402 \text{ GHz}}] = 0.81 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE 1M(Left):

$P_t = 3.579 \text{ dBm} = 2.280 \text{ mW}$

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 $\text{SAR} = (2.280 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.402 \text{ GHz}}] = 0.71 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE 2M(Left):

$P_t = 3.515 \text{ dBm} = 2.246 \text{ mW}$

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 $\text{SAR} = (2.246 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.402 \text{ GHz}}] = 0.70 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

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BR/EDR(Right):

$P_t=4.093\text{dBm}=2.566\text{mW}$

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 $\text{SAR}=(2.566\text{mW}/5\text{mm}) \cdot [\sqrt{2.402\text{GHz}}]=0.80<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE 1M(Right):

$P_t=3.508\text{dBm}=2.243\text{mW}$

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 $\text{SAR}=(2.243\text{mW}/5\text{mm}) \cdot [\sqrt{2.402\text{GHz}}]=0.70<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE 2M(Right):

$P_t=3.424\text{dBm}=2.199\text{mW}$

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 $\text{SAR}=(2.199\text{mW}/5\text{mm}) \cdot [\sqrt{2.402\text{GHz}}]=0.68<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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