

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Wireless Headset
Model Name	RDA0032
FCC ID	2AAFMRDA0032

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 ≤ 5 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

$$P_t = 0.642 \text{ dBm} = 1.16 \text{ mW}$$

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 $\text{SAR} = (1.16 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480(\text{GHz})}] = 0.36 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

2.4G ANTENNA 1

$$P_t = -1.071 \text{ dBm} = 0.78 \text{ mW}$$

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 $\text{SAR} = (0.78 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.402(\text{GHz})}] = 0.24 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

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2.4G ANTENNA 2

$$P_t = -0.361 \text{ dBm} = 0.92 \text{ mW}$$

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 $SAR = (0.92 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.44} (\text{GHz})] = 0.29 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Note: 1. The BT and 2.4G Antenna 1 can transmit simultaneously
 $0.36/3 + 0.24/3 = 0.20 < 1$

2. The BT and 2.4G Antenna 2 can transmit simultaneously
 $0.36/3 + 0.29/3 = 0.22 < 1$

3. The 2.4G Antenna 1 and Antenna 2 can not transmit simultaneously

4. CONCLUSION

The SAR evaluation is not required.

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