



RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Microphone
Model Name	PWMAZ-Q1
FCC ID	2A7ZRPWMAZ-Q1

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

Wireless microphones:

Group A

$$P_t = 8.431 \text{ dBm} = 6.968 \text{ mW}$$

The result for RF exposure evaluation $\text{SAR} = (6.968 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{0.657}(\text{GHz})] = 1.129 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Group B

$$P_t = 7.144 \text{ dBm} = 5.181 \text{ mW}$$

The result for RF exposure evaluation $\text{SAR} = (5.181 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{0.6575}(\text{GHz})] = 0.839 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>