

**RF EXPOSURE EVALUATION****1. PRODUCT INFORMATION**

Product Description	USB condenser microphone for live recording
Model Name	M2
Series Model	M1, M3, M4, M5, M6, M7, M8, M9
FCC ID	2A4JZ-M2

**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  $\leq$  50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR.}$

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:

$$P_t = -0.470 \text{ dBm} = 0.90 \text{ mW}$$

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  $\text{SAR} = (0.90 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.402 \text{ GHz}}] = 0.279 < 3.0$  for

BLE:

$$P_t = -0.926 \text{ dBm} = 0.81 \text{ mW}$$

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  $\text{SAR} = (0.81 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.402 \text{ GHz}}] = 0.251 < 3.0$  for

**4. CONCLUSION**

The SAR evaluation is not required.

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