

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	doorbell/alarm
Model Name	B11, X(X=A-Z)X(X=01-20), 118, 218, 228, 338, 358, 368, 518, 528, 538, 618, 668, 728, 758, 768, 818, 828, 838, 868, 988, 998,X(X=C,D)X(X=01-99)X(X=1-9)X(X=1-9)X(X=3,4,8,9)X(X=1-9)X(X=U,K,E,A)
FCC ID	2ADZI-B11

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

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

$$P_t = -8.43\text{dBm} = 0.143\text{mW}$$

The value of the Maximum output power P_t is referred to the test report of the **CFR47**

§15.231

The result for RF exposure evaluation $\text{SAR} = (0.143\text{mW} / 5\text{mm}) \cdot [\sqrt{433.92(\text{MHz})}] = 0.60 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.