

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Remote Control
Model Name	MLB-RC-SR-BOS, MLB-RC-SR-NYY, MLB-RC-SR-LAD, MLB-RC-SR-CCU, MLB-RC-SR-SFG, MLB-RC-SR-CLI, MLB-RC-SR-PHL, MLB-RC-SR-TOR, MLB-RC-SR-HAS, MLB-RC-SR-DTG, MLB-RC-SR-MWB, MLB-RC-SR-CIR, MLB-RC-SR-CWS, MLB-RC-SR-MET, MLB-RC-SR-SLC
FCC ID	2AANZRCSR

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

According to the follow transmitter output power (P_t) formula:

$$P_t = (E \times d)^2 / (30 \times g_t)$$

P_t =transmitter output power in watts

g_t =numeric gain of the transmitting antenna (unitless)

E =electric field strength in V/m

d =measurement distance in meters (m)

$$P_t = -38.55\text{dBm} = 0.00014\text{mW}$$

The result for RF exposure evaluation

$$\text{SAR} = (0.00014\text{mW} / 5\text{mm}) \cdot [\sqrt{0.04968(\text{GHz})}] = 0.0000062 < 3.0 \text{ for 1-g SAR}$$

4. CONCLUSION

The SAR evaluation is not required.