

RF Exposure Requirements

Product Description: Wireless Digital Stereo Transmitter

Model No.: MI-909T

FCC ID: M5X-MI909T18

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Calculation Result:

Tx frequency range: 470.1-607.925MHz

Min. test separation distance: 10 mm

Maximum Conducted Output Power: 13.92 dBm

RF channel transmit frequency: 470.1MHz

Result: 1.69

Limit: 3.0

The exclusion thresholds is $1.69 < 3$, so the transmitter complies with the RF exposure requirements and the SAR is not required.