

# **RF Exposure Requirements**

Product Description: Digital Plug-on Transmitter

Model No.: TA-80

FCC ID: M5X-TA8018

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances  $\leq 50$  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  $\leq 7.5$  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: 470.1-607.9MHz

Min. test separation distance: 0.008 mm

Maximum Conducted Output Power: -15.14 dBm

RF channel transmit frequency: 539 MHz

Result: 2.81

Limit: 3.0

The exclusion thresholds is  $2.81 < 3$ , so the transmitter complies with the RF exposure requirements and the SAR is not required.