

## FCC ID: SWN-TD50UT

According to KDB 447498 D01 General RF Exposure Guidance v06.

For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C).

- 1) For test separation distance > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by  $[1 + \log(100/f_{\text{MHz}})]$
- 2) For test separation distance  $\leq 50$  mm, the power threshold determined by the equation in C) 1) for 50mm and 100 MHz is multiplied by  $1/2$

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \times [\sqrt{f_{\text{MHz}}}] \leq 3.0$$

### 1. SAR test exclusion threshold: 3.0

Step a): at 100 MHz and 50 mm, power threshold =  $(3.0 * 50) / \sqrt{0.1} = 474.342$  mW

Step b1):  $474.342 + (50 - 50) \times (27.195/150) = 474.342$  mW

Step c1):  $474.342 \times [1 + \log(100/27.195)] = 742.588$  mW

Step c2):  $742.588/2 = 371.294$  mW

Frequency	Maximum Average Target Power	Maximum Tune up	Maximum Average Output Power		Limit
	(dBm)	(dB)	(dBm)	(mW)	
27.195 MHz	17	1	18	63.096	371.294 mW

### 2. Conclusion: No SAR is required.

Note: Measured maximum output power: 17.36 dBm / Tune-up tolerance : 17 dBm  $\pm$  1 dB