

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 $> 50 \text{ mm}$ and $< 200 \text{ mm}$, 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 $\leq 50 \text{ mm}$, the power threshold determined by the equation in C) 1) for 50 mm and 100 MHz is multiplied by $1/2$

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

1. SAR test exclusion threshold: 3.0

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

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

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

Step c2): $742.588/2 = 371.294 \text{ mW}$

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