

FCC ID: SWN-TD11UT

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

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \times [\sqrt{f_{\text{(MHz)}}}] \leq 7.5$$

1. SAR test exclusion threshold: 7.5

Step a): at 100 MHz and 50 mm, power threshold = $(7.5 * 50) / \sqrt{0.1} = 1185.854$ mW

Step b1): $1185 + (50 - 50) \times (27.195/150) = 1185.854$ mW

Step c1): $1185 \times [1 + \log(100/27.195)] = 1856.467$ mW

Step c2): $1856.467/2 = 928.234$ mW

Frequency	Max. Conducted output power	Max. tune-up contained tolerance	Limit
27.195 MHz	279.254 mW (24.46 dBm)	398.107 mW (26.00 dBm)	928.234 mW

2. Conclusion: No SAR is required.

Note: Measured maximum output power : 24.46 dBm / Tune-up tolerance : 24 dBm $\pm$ 2 dB