

9 Appendix A - General Product Information

Radiofrequency radiation exposure evaluation

This exposure evaluation is intended for FCC ID: ZZN-ST100

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6GHz and test separation distances ≤ 50 mm, the Numeric threshold is determined as:

Step a)

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR

>> The fundamental frequency of the EUT is 2402-2480MHz, the test separation distance is ≤ 50mm. (Manufacturer specified the separation distance is: 5mm)

Step a)

- >> Numeric threshold (2402MHz), mW / 5mm * $\sqrt{2.402}$ GHz ≤ 3.0 Numeric threshold (2402MHz) ≤ 9.678 mW
- >> Numeric threshold (2440MHz), mW / 5mm * $\sqrt{2.440}$ GHz ≤ 3.0 Numeric threshold (2440MHz) ≤ 9.602 mW
- >> Numeric threshold (2480MHz), mW / 5mm * $\sqrt{2.480}$ GHz ≤ 3.0 Numeric threshold (2480MHz) ≤ 9.525 mW
- >> The power of EUT measured (2402MHz) is: -1.14dBm = 0.769mW The power of EUT measured (2440MHz) is: -1.18dBm = 0.762mW The power of EUT measured (2480MHz) is: -0.85dBm = 0.822mW

Which is smaller than the Numeric threshold.

Therefore, the device is exempt from stand-alone SAR test requirements.