

8 Appendix A - General Product Information

Radiofrequency radiation exposure evaluation

This exposure evaluation is intended for **FCC ID: 2AA2X-16500361**.

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)]
· [$\sqrt{f(\text{GHz})}$] ≤ 3.0 for 1-g SAR

>> The fundamental frequency of the EUT is 2405-2480MHz,
the test separation distance is ≤ 50 mm.
(Manufacturer specified the separation distance is: 20mm)

Step a)

>> Numeric threshold (2405MHz), mW / 20mm * $\sqrt{2.402\text{GHz}} \leq 3.0$
Numeric threshold (2405MHz) $\leq 38.713\text{mW}$

>> Numeric threshold (2445MHz), mW / 20mm * $\sqrt{2.440\text{GHz}} \leq 3.0$
Numeric threshold (2445MHz) $\leq 38.411\text{mW}$

>> Numeric threshold (2480MHz), mW / 20mm * $\sqrt{2.480\text{GHz}} \leq 3.0$
Numeric threshold (2480MHz) $\leq 38.100\text{mW}$

>> The power of EUT measured (2405MHz) is: 4.63dBm = 2.904mW
The power of EUT measured (2445MHz) is: 4.19dBm = 2.624mW
The power of EUT measured (2480MHz) is: 1.67dBm = 1.469mW

Which is smaller than the Numeric threshold.

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