

Radiofrequency Radiation Exposure Evaluation

This exposure evaluation is intended for **FCC ID: 2AA2X-15000345**

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)

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ 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: 20 mm)
(5mm is the worst case according to the KDB)

Step b)

>> Numeric threshold (2405MHz), $\text{mW} / 5\text{mm} * \sqrt{2.402\text{GHz}} \leq 3.0$
Numeric threshold (2405MHz) $\leq 9.678\text{mW}$

>> Numeric threshold (2440MHz), $\text{mW} / 5\text{mm} * \sqrt{2.440\text{GHz}} \leq 3.0$
Numeric threshold (2440MHz) $\leq 9.602\text{mW}$

>> Numeric threshold (2480MHz), $\text{mW} / 5\text{mm} * \sqrt{2.480\text{GHz}} \leq 3.0$
Numeric threshold (2480MHz) $\leq 9.525\text{mW}$

The Power according to the RF Report No: 60.790.23.030.01R01

>> The power (measured + tune up tolerance) of EUT at 2405MHz is: $-3.44\text{dBm} = 0.45\text{mW}$
The power (measured + tune up tolerance) of EUT at 2440MHz is: $-3.09\text{dBm} = 0.49\text{mW}$
The power (measured + tune up tolerance) of EUT at 2480MHz is: $-3.77\text{dBm} = 0.42\text{mW}$

Which is smaller than the Numeric threshold.

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

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