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Radiofrequency radiation exposure evaluation

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)] · [$\sqrt{f(GHz)}$] ≤ 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: 20mm)

Step a)
>> Numeric threshold (2402MHz), mW / 20mm * $\sqrt{2.402GHz}$ ≤ 3.0
   Numeric threshold (2402MHz) ≤ 38.713mW

>> Numeric threshold (2440MHz), mW / 20mm * $\sqrt{2.440GHz}$ ≤ 3.0
   Numeric threshold (2440MHz) ≤ 38.411mW

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

>> The power of EUT measured (2402MHz) is: 0.92dBm = 1.236mW
   The power of EUT measured (2440MHz) is: 0.89dBm = 1.227mW
   The power of EUT measured (2480MHz) is: 0.17dBm = 1.040mW

Which is smaller than the Numeric threshold.
Therefore, the device is exempt from stand-alone SAR test requirements.