Date: 2017-08-08
Report Number: 60.792.17.020.02
Model No.: HG01335C

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)] · [√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: 5mm)

Step a)
>> Numeric threshold (2402MHz), mW / 5mm * $\sqrt{2.402}$GHz ≤ 3.0
   Numeric threshold (2402MHz) ≤ 9.678mW

>> Numeric threshold (2440MHz), mW / 5mm * $\sqrt{2.441}$GHz ≤ 3.0
   Numeric threshold (2440MHz) ≤ 9.601mW

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

>> The power of EUT measured (2402MHz) is: 1.48dBm = 1.406mW
   The power of EUT measured (2440MHz) is: 1.11dBm = 1.291mW
   The power of EUT measured (2480MHz) is: 0.69dBm = 1.172mW
   Which is smaller than the Numeric threshold.
   Therefore, the device is exempt from stand-alone SAR test requirements.