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Report Number: 60.790.16.113.01

Model No.: MRL171

Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6GHz and test separation distances \leq 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 2402-2480MHz,
the test separation distance is \leq 50mm.
(Manufacturer specified the separation distance is: 5mm)

Step a)

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

>> Numeric threshold (2440MHz), mW / 5mm * $\sqrt{2.440\text{GHz}}$ \leq 3.0
Numeric threshold (2440MHz) \leq 9.601mW

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

>> The power of EUT measured (2402MHz) is: -1.22dBm = 0.755mW

The power of EUT measured (2440MHz) is: -1.77dBm = 0.665mW

The power of EUT measured (2480MHz) is: -1.82dBm = 0.658mW

Which is smaller than the Numeric threshold.

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