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Model No.: HG04641A-US-TX, HG04641B-US-TX

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)

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR

>> The fundamental frequency of the EUT is 433.92MHz, the test separation distance is $\leq 5\text{mm}$ & $\leq 20\text{mm}$.

(Manufacturer specified the separation distance is: 20mm)

Step a.1)

>> Numeric threshold, $\text{mW} / 5 \text{ mm} \cdot \sqrt{0.43392\text{GHz}} \leq 3.0$

Numeric threshold $\leq 22.771\text{mW}$

Step a.2)

>> Numeric threshold, $\text{mW} / 20 \text{ mm} \cdot \sqrt{0.43392\text{GHz}} \leq 3.0$

Numeric threshold $\leq 91.084\text{mW}$

>> The power of EUT measured is: $-1.69\text{dBm} = 0.68\text{mW}$

Which is smaller than the Numeric threshold.

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