

Date: 2016-08-22 Report Number: 60.790.16.037.01 Model No.: STS-S-3

Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1, For frequencies below 100 MHz and test separation distances \leq 50 mm, the Numeric threshold is determined as:

Step a)

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

Step b)

{[Power allowed at numeric threshold for 50mm in step a)] + [(test separation distance - 50mm) · (f(MHz)/150)]} mW

Step c) 1)

For test separation distances > 50mm and < 200mm, the power threshold at the corresponding test separation distance at 100MHz in step b) is multiplied by $[1 + \log(100/f(MHz))]$

Step c) 2)

For test separation distances \leq 50mm, the power threshold determined by the equation in c) 1) for 50mm and 100MHz is multiplied by $\frac{1}{2}$.

>> The fundamental frequency of the EUT is 112kHz, the test separation distance is < 50mm. (Manufacturer specified the separation distance is: 20mm)

Step a) >> Numeric threshold, mW / 50mm * √0.1GHz ≤ 3.0 Numeric threshold ≤ 474.3mW

Step b)

>> Numeric threshold ≤ 474.3mW + (50mm-50mm * 100MHz/150) = 474.3mW Numeric threshold ≤ 474.3mW

Step c) 1) & c) 2)

>> Numeric threshold \leq 474.3mW * [1 + log 100/100MHz] * $\frac{1}{2}$ Numeric threshold \leq 273.15mW

>> The power of EUT measured is: -39.78dBm = 0.0001051mW Which is smaller than the Numeric threshold. Therefore, the device is exempt from stand-alone SAR test requirements.

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