

Project No.: NK-23-R-451

FCC Certification

Maximum Permissible Exposure

RF Exposure Limit

According to KDB 447498D01 v06:

The 1g and 10g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(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 and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is <5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Device category : Portable device

Transmitting mode : Single transmitting

Max. transmitting frequency : 2 480 MHz

Min. test separation distance : 5 mm

Max. Antenna Gain : 1.6 dBi

Max. Average power : 3.33 dBm

Max. power with turn-up tolerance : 4 dBm

2.52 mW

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For this device:

1.0 mW[maximum average output power]/5 mm[minimum separation distance] x $\sqrt{2.48}$ GHz = 0.9

Note. The calculation result was rounded to one decimal place for comparison.

Test Result:

This is less than 3.0 for 1-g SAR.

SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.

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