

## 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  $\le 7.5$  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 : 1.02 dBi

Max. Average power : -4 dBm

Max. power with turn-up tolerance : -3 dBm

0.6 mW

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For this device:

0.60 mW[maximum average output power]/5 mm[minimum separation distance] x  $\sqrt{2.48}$  GHz = 0.2

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.

i-SENS, Inc.

Page 1 of 1