

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 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

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eirp = pt x gt = (EXd)^2/30 where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unit less),

E = electric field strength in V/m, ---10<sup>((dBuV/m)/20)</sup>/10<sup>6</sup>

d = measurement distance in meters (m) ---3m

So pt = (EXd)^2/30 x gt

Field strength = 97.48 dBuV/m @3m

Ant gain =0dBi, so Ant numeric gain= 1

So pt={ [10^{(97.48/20)}/10^6 x 3]^2/30x1 }x1000 mW = 1.68 mW

So (1.68 mW /5mm)x \sqrt{2.480} = 0.529<3
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Then SAR evaluation is not required