

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 ≤ 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

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, $--10^{((dBuV/m)/20)}/10^6$

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

So pt = $(Exd)^2 / 30 x gt$

Field strength = 70.88 dBuV/m @3m Ant gain =1.50dBi, so Ant numeric gain=1.41

So pt={ $[10^{(70.88/20)}/10^6 \times 3]^2/30 \times 1.41$ } x 1000 mW = 0.003mW

So $(0.003\text{mW}/5\text{mm}) \times \sqrt{0.905} = 0.001<3$

Then SAR evaluation is not required