

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  $\leq$  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

eirp = pt x gt = (EXd)<sup>2</sup>/30 where: pt = transmitter output power in watts, gt = numeric gain of the transmitting antenna (unitless),

 $E = electric field strength in V/m, --- 10^{((dBuV/m)/20)}/10^6$ 

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

So pt =  $(EXd)^{2}/30 \times gt$ 

Field strength = 95.31dBuV/m @3m Ant gain= 2dBi; so Ant numeric gain=1.58

So pt={ $[10^{(95.31/20)}/10^6 x3]^2/(30x1.58$ }x1000 mW = 0.645 mW

So (0.645 mW /5mm)x √2.441 = 0.2 <3

Then SAR evaluation is not required