RF Exposure evaluation

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)] • [$\sqrt{f(\text{GHz})}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

 $\ensuremath{\text{f}}\xspace(\ensuremath{\text{GHz}}\xspace)$ 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)<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 Sopt = (EXd)<sup>2</sup>/30 x gt Ant gain= 0 dBi ; so Ant numeric gain= 1 Field strength = 93.31 dB\muV/m @3m So Pt={ [10^{(93.31/20)}/10^6 x3]<sup>2</sup>/ (30 ) }x1000 mW = 0.643 mW So ( 0.643 mW/5mm)x \sqrt{2}.480 GHz = 0.2 < 3
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Then SAR evaluation is not required