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

- f(GHz) is the RF channel transmit frequency in GHz
- ${}^{\bullet}$ Power and distance are rounded to the nearest mW and mm before calculation
- $\boldsymbol{\cdot}$ 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 (unitless),
E = electric field strength in V/m, --- 10((dBuV/m)/20)/106
d = measurement distance in meters (m)---3m
So pt = (EXd)²/30 x gt

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

Field strength =97.49dBuV/m @3m
So Pt={ [10(97.49/20)/106 x3]²/30x1 }x1000 mW = 1.7 mW
So ( 1.7mW/5mm) x √2.409 GHz = 0.53 < 3</pre>
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Then SAR evaluation is not required