RF Exposure evaluation

According to KDB 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 [$\sqrt{f(GHz)}$] \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
- ${}^{\raisebox{-.4ex}{$\scriptscriptstyle \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)}/10^6

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

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

Ant gain 0dBi ;so Ant numeric gain=1

Field strength = 93.4 dBuV/m @3m

So Pt={ [10^{(93.4 /20)}/10^6 x3]^2/30x1 }x1000 mW = 0.66 mW
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Then SAR evaluation is not required