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 \leqslant 7.5 for 10-g extremity SAR, where

 $\ensuremath{\mbox{\sc f(GHz)}}$ is the RF channel transmit frequency in $\ensuremath{\mbox{\sc GHz}}$

Power and distance are rounded to the nearest ${\tt mW}$ and ${\tt mm}$ before calculation

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
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Field strength =84.18 dBuV/m @3m Ant gain -1 dBi; so Ant numeric gain=0.794

So pt={ $[10^{(84.18/20)}/10^6 \text{ x3}]^2/30\text{x0.794}$ } x1000 mW = 0.3 mW So (0.3 mW/5mm) x $\sqrt{2.476}$ GHz = 0.1 <3

Then SAR evaluation is not required