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

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest  $\ensuremath{\mathtt{mW}}$  and  $\ensuremath{\mathtt{mW}}$  before calculation

The result is rounded to one decimal place for comparison

```
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<sup>((dBuV/m)/20)</sup>/10<sup>6</sup> d = measurement distance in meters (m)---3m So pt = (EXd)<sup>2</sup>/30 x gt

Field strength = 85.87dBuV/m @3m
Ant gain =2dBi; so Ant numeric gain= 1.585

```
So pt= {[10^{(85.87/20)}/10^6 \text{ x3}]^2/30\text{x1.585}}x1000 mW =0.18 mW
So (0.18 mW/5mm)x \sqrt{2.44}GHz = 0.056 <3
```

Then SAR evaluation is not required