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  $\ensuremath{\mathtt{mM}}$  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^{((dBuV/m)/20)}/10^6
d = measurement distance in meters (m)---3m
So pt = (EXd)^2/30 x gt
```

Field strength = 90.12dBuV/m @3m
Ant gain = -1.85dBi ;so Ant numeric gain= 0.653

```
So pt={ [10^{(90.12/20)}/10^6 \text{ x3}]^2/(30 \times 0.653) }x1000 mW = 0.472mW
```

So  $(0.472 \text{ mW}/5\text{mm})x \sqrt{2.480} \text{ GHz} = 0.15 < 3$ 

Then SAR evaluation is not required