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

Power and distance are rounded to the nearest  $\mathtt{m}\mathtt{W}$  and  $\mathtt{m}\mathtt{m}$  before calculation

The result is rounded to one decimal place for comparison

```
eirp = pt x gt = (EXd)<sup>2</sup>/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
Sopt = (EXd)<sup>2</sup>/30 x gt
```

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

Field strength = 55.73 dBuV/m @3m So Pt={  $[10^{(55.73/20)}/10^6 \text{ x3}]^2/30\text{x1}$ }x1000 mW = 0.000112 mW

So  $(0.000112 \text{ mW}/5\text{mm}) \times \sqrt{0.0881\text{GHz}} = 0.000007 < 3$ 

Then SAR evaluation is not required