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)^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
```

Antenna gain=0dBi ; so numerical antenna gain=1

Field strength =71.9dBuV/m @3m So pt ={  $[10^{(71.9/20)}/10^6 \times 3]^2/30X1$ }x1000 =0.0046 mW

So ( 0.0046 mW/5mm) x  $\sqrt{0.315\text{GHz}} = 0.00052 < 3$