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  $\mathtt{m} \mathtt{W}$  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
    So pt = (EXd)<sup>2</sup>/30 x gt
```

Antenna gain=-8dBi ; so numerical antenna gain=0.158

Field strength = 78.39dBuV/m @3m So pt ={  $[10^{(78.39/20)}/10^6 \times 3]^2/30$ X0.158 }x1000 = 0.131 mW

So ( 0.131 mW/5mm) x  $\sqrt{0.418}$  GHz =0.017 < 3