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 $\ensuremath{\mathtt{mW}}$ and $\ensuremath{\mathtt{mM}}$ 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= -1.5dBi ; so Ant numeric gain= 0.7

Field strength =55.23dBµV/m @3m

```
So Pt={ [10^{(55.23/20)}/10^6 \text{ x3}]^2/30 \text{ x0.7} }x1000 mW = 0.00014 mW
So (0.00014 \text{ mW}/5\text{mm}) \times \sqrt{0.43392} GHz = 0.000018 < 3
```

Then SAR evaluation is not required