RF Exposure evaluation

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

 $\ensuremath{\text{f(GHz)}}$ is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and 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 = 73.95dBuV/m @3m

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

So pt={ [10^{(73.95)/20}/10^6 \times 3]^2/30\times 1 \times 1000 \text{ mW} = 0.007 \text{ mW}}

So (0.007 \text{ mW/5mm})\times \sqrt{0.43392GHz} = 0.0009 < 3
```

Then SAR evaluation is not required