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 $\frac{1}{2}$

[(max.power of channel, including tune-up tolerance, mW)/(min.test separation distance, mm)] •[$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

 $\ensuremath{\mbox{f(GHz)}}$ is the RF channel transmit frequency in $\ensuremath{\mbox{GHz}}$

 \leqslant 50 mm are determined by:

Power and distance are rounded to the nearest ${\tt mW}$ and ${\tt mm}$ before calculation

The result is rounded to one decimal place for comparison

Worse case of BT is as below: [2402MHz 2.88dBm(1.941mW)output power]

 $(1.941 \text{ mW} /5\text{mm}) \cdot [\sqrt{2.402}(\text{GHz})] = 0.6 < 3.0 \text{ for } 1-\text{g SAR}$

Worse case of wifi is as below: [2462MHz 8.97dBm (7.889 mW)output power]

 $(7.889 \text{ mW } /5\text{mm}) \cdot [\sqrt{2.462} \text{ (GHz)}] = 2.5 < 3.0 \text{ for } 1\text{-g SAR}$