## RF Exposure evaluation

According to KDB 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  $\ensuremath{\mathtt{mW}}$  and  $\ensuremath{\mathtt{mm}}$  before calculation

• The result is rounded to one decimal place for comparison

Worse case of 2.4G WIFI is as below: [2462 MHz 8.64dBm (7.31 mW) output power]

 $(7.31 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.462} \text{ (GHz)}] = 2.31 < 3.0 \text{ for } 1-\text{g SAR}$ 

Worse case of 5G WIFI is as below: [5745 MHz 7.89dBm (6.152 mW) output power]

 $(6.152 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{5.745} (\text{GHz})] = 2.95 < 3.0 \text{ for } 1-\text{g SAR}$