## 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)] • [ $\sqrt{f(GHz)}$ ]  $\leq$  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  $\ensuremath{\mbox{GHz}}$
- ${}^{\bullet}$  Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Worse case of BLE is as below: [2440 MHz -6.57dBm (0.22mW) output power]

 $(0.22 \text{mW} / 5 \text{mm}) \cdot [\sqrt{2.440} (\text{GHz})] = 0.07 < 3.0 \text{ for } 1-\text{g SAR}$ 

Worse case of BT is as below: [2480 MHz 1.79dBm (1.51 mW) output power] Default

 $(1.51 \text{ mW} / 5\text{mm}) \cdot [\sqrt{2.480} \text{ (GHz)}] = 0.48 < 3.0 \text{ for } 1-\text{g SAR}$ 

Then SAR evaluation is not required