

## 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)]  $\cdot$  [ $\sqrt{f(\text{GHz})}$ ]  $\leq 3.0$  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 mW and mm before calculation
- The result is rounded to one decimal place for comparison

Worse case is as below: [2412 MHz 9.60dBm (9.12mW) output power]

$$(9.12 \text{ mW} / 5\text{mm}) \cdot [\sqrt{2.412(\text{GHz})}] = 2.82 < 3.0 \text{ for 1-g SAR}$$

Then SAR evaluation is not required