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 GHz
- ${}^{\raisebox{-.2ex}{$\scriptscriptstyle\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 2.4G is as below: [2440 MHz 7.27dBm (5.33mW) output power]

 $(5.33 \,\mathrm{mW} / 5 \,\mathrm{mm})$ • [$\sqrt{2.440}$ (GHz)]= 1.67 <3.0 for 1-g SAR

Then SAR evaluation is not required