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 $$\operatorname{GHz}$$
- 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: [2402 MHz 4.605dBm (2.887mW) output power]

 $(2.887 \text{mW} / 5 \text{mm}) \cdot [\sqrt{2.402} (\text{GHz})] = 0.9 < 3.0 \text{ for}$ 1-g SAR

Then SAR evaluation is not required