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
- $\boldsymbol{\cdot}$ The result is rounded to one decimal place for comparison

For WiFi:

Worse case is as below: [2412 MHz 4.50 dBm dBm (2.82mW) output power]

 $(2.82 \text{mW} / 5 \text{mm}) \cdot [\sqrt{2.412} \text{ (GHz)}] = 0.87 < 3.0 \text{ for } 1-\text{g SAR}$

For BT:

Worse case is as below: [2402 MHz 3.99 dBm dBm (2.51mW) output power]

 $(2.51 \text{mW} / 5 \text{mm}) \cdot [\sqrt{2.402} \text{ (GHz)}] = 0.78 < 3.0 \text{ for } 1-\text{g SAR}$

0.87+0.78=1.65<3.0 for 1-g SAR

Then SAR evaluation is not required