RF Exposure evaluation

According to 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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 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

For WIFI:

Worse case is as below: [2412MHz 9.79 dBm (9.53mW output power]

 $(9.53 / 5) \cdot [\sqrt{2.412} (\text{GHz})] = 2.96 < 3.0 \text{ for } 1\text{-g SAR}$

For BT4.0:

Worse case is as below: [2402MHz -0.643 dBm (0.86mW output power]

 $(0.86 / 5) \cdot [\sqrt{2.440(\text{GHz})}] = 0.27 < 3.0 \text{ for } 1\text{-g SAR}$

For BT3.0: Worse case is as below: [2441MHz 3.808 dBm (2.40mW output power]

 $(2.4/5) \cdot [\sqrt{2.441} \text{ (GHz)}] = 0.75 < 3.0 \text{ for } 1\text{-g SAR}$

Then SAR evaluation is not required