RF exposure evaluation

According to 447498 D01 General RF Exposure Guidance v05r02 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

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

Worse case for BLE as below:

[2402MHz: -1.26dBm (0.75 mW) output power] (0.75 mW /5mm) \bullet [\checkmark 2.402(GHz)]=0.232 <3.0 for 1-g SAR So, SAR evaluation for BLE is not required

Worse case for BT as below:

[2402MHz: 5.32dBm (3.40 mW) output power] (3.40 mW /5mm) •[$\sqrt{2.402}$ (GHz)]=1.054 <3.0 for 1-g SAR So, SAR evaluation for BT is not required

Worse case for WIFI as below:

[2412MHz: 3.05dBm (2.02 mW) output power] (2.02 mW /5mm) $\cdot [\sqrt{2.412(GHz)}] = 0.627 < 3.0$ for 1-g SAR So, SAR evaluation for WIFI is not required