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≤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 Bluetooth as below:
[2441MHz: 2.98dBm (1.99mW) output power]
(1.99mW /5mm) •[√2.441(GHz)]=0.62<3.0 for 1-g SAR
So, SAR evaluation for Bluetooth is not required

Worse case for WiFi as below: [2437MHz: 6.20dBm (4.17mW) output power] (4.17mW /5mm) •[√2.437(GHz)]=1.30<3.0 for 1-g SAR So, SAR evaluation for WiFi is not required

Worse case for BLE as below: [2442MHz: 0.11dBm (1.03mW) output power] (1.03mW /5mm) •[√2.442(GHz)]=0.32<3.0 for 1-g SAR So, SAR evaluation for WiFiis not required