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 Bluetooth as below:

[2480MHz: 3.94dBm (2.48 mW) output power] (2.48 mW /5mm) \cdot [$\sqrt{2.480(GHz)}$]=0.781 <3.0 for 1-g SAR

Worse case for BLE as below:

[2480MHz: 4.73dBm (2.97 mW) output power] (2.97 mW /5mm) $^{\circ} [\sqrt{2.480(GHz)}] = 0.935 < 3.0$ for 1-g SAR So, SAR evaluation for Bluetooth is not required