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 BLE as below:

[2480MHz: 0.77dBm (1.19 mW) output power] (1.19 mW /5mm) $(\sqrt{2.480(GHz)} = 0.375 < 3.0$ for 1-g SAR So, SAR evaluation for BIE is not required

Worse case for BT as below:

[2480MHz: 2.30dBm (1.70mW) output power] (1.70 mW /5mm) $\cdot [\sqrt{2.480 \text{GHz}}] = 0.535 < 3.0$ for 1-g SAR So, SAR evaluation for Bluetooth is not required