SAR Exclusion

Per FCC KDB 447498 D01v06 for 100MHz~6GHz:

1) The SAR exclusion threshold for distances< 50mm is defined by the following equation:

$$\frac{Max\ Power\ of\ Channel(mW)}{Test\ Separation\ Distance(mm)} \times \sqrt{Frequency(GHz)} \le 7.5 \quad for\ 10\text{-}g\ SAR$$

Based on the maximum conducted power and the antenna to use separation distance:

1. The maximum average output power of WLAN is 10.03dBm, and the minimum distance is 5mm from user:

[(10.72 mW/5)* √2.437] = 3.347 <7.5, so WLAN SAR is not required

2. The maximum average output power of Bluetooth is -25dBm, and the minimum distance is 5mm from user:

[(0.003 mW/5)* √2.440] = 9.37*10^{-4} <7.5, so BT SAR is not required