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:
[2441MHz: 5.05dBm (3.20 mW) output power]
(3.20 mW /2mm) •[√ 2.441(GHz)]=2.50 <3.0 for 1-g SAR
So, SAR evaluation for Bluetooth is not required

Worse case for 2.4G Wi-Fi as below:
[2437MHz: 5.09dBm (3.23 mW) output power]
(3.23mW /2mm) •[√2.412(GHz)]=2.51 <3.0 for 1-g SAR
So, SAR evaluation for WiFi is not required

Worse case for 5.2G Wi-Fi as below:
[5180MHz: 3.96dBm (3.96 mW) output power]
(3.96mW /2mm) •[√ 5.180(GHz)]=2.83 <3 for 1-g SAR
So, SAR evaluation for WiFi is not required

Remark:

The new Product Name, Model No., FCC ID: 2AHJQ-APT8IIB and the certified FCC ID: 2AHJQ-APT8IIA are electrically identical, so the test data of the new FCC ID: 2AHJQ-APT8IIB is all derived from the FCC test report of the certified FCC ID: 2AHJQ-APT8IIA.