RF Exposure

Applicable Standard

According to §1.1307(b)(5), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline. This is a Portable device. The Section 4.3.1 and ppendix A of KDB447498 D01 V05 was used as the guidance. Calculation Result (Worse Case):

WIFI Mode
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·
[√f(GHz)] =8.55/5 * √2.412= 2.66, this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BT Mode
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·
[√f(GHz)] =0.971/5 * √2.480=0.301, this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE Mode
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·
[√f(GHz)] =0.289/5 * √2.480=0.091, this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Since BT, BLE and WIFI transmitter can't be in simultaneous transmission mode, thus, simultaneous transmission RF Exposure is not required.

As a result, the SAR measurement is not necessary.