§1.1310 &§2.1093 –RF EXPOSURE

Applicable Standard

According to §2.1093 and §1.1310, 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.

Report No.: RSHA190130005-00D

According to KDB447498 D01 General RF Exposure Guidance v06:

For 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(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

- ·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
- ·When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

Measurement Result

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For worst case

Mode	Frequency Range (MHz)	Frequency (MHz)	Tune-up Conducted Power		Calculated Distance	Calculated Value	Threshold (1-g)	SAR Test
			(dBm)	(mW)	(mm)			Exclusion
Bluetooth	2402-2480	2480	2.00	1.58	5.00	0.50	3.00	Yes
BLE	2402-2480	2480	4.00	2.51	5.00	0.79	3.00	Yes
802.11b	2412~2462	2462	9.50	8.91	5.00	2.80	3.00	Yes
802.11g	2412~2462	2462	5.50	3.55	5.00	1.11	3.00	Yes
802.11n20	2412~2462	2462	8.00	6.31	5.00	1.98	3.00	Yes
802.11a	5150~5250	5250	6.00	3.98	5.00	1.82	3.00	Yes
	5725~5850	5850	6.50	4.47	5.00	2.16	3.00	Yes
802.11ac20	5150~5250	5250	6.50	4.47	5.00	2.05	3.00	Yes
	5725~5850	5850	7.00	5.01	5.00	2.42	3.00	Yes
802.11n20	5150~5250	5250	7.50	5.62	5.00	2.58	3.00	Yes
	5725~5850	5850	7.90	6.17	5.00	2.98	3.00	Yes
802.11ac40	5150~5250	5250	6.50	4.47	5.00	2.05	3.00	Yes
	5725~5850	5850	7.00	5.01	5.00	2.42	3.00	Yes
802.11n40	5150~5250	5250	7.50	5.62	5.00	2.58	3.00	Yes
	5725~5850	5850	7.90	6.17	5.00	2.98	3.00	Yes
802.11ac80	5210	5210	7.00	5.01	5.00	2.29	3.00	Yes
	5775	5775	7.00	5.01	5.00	2.41	3.00	Yes

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Note: 1. The tune-up output power was declared by the manufacturer.

- 2. Bluetooth, BLE, 2.4 GHz & 5 GHz Wi-Fi can't transmit simultaneously.
- 3. For 802.11b,802.11g,802.11a ,the Tune-up power is base on SISO mode For 802.11n20/ac20/n40/ac40/ac80, the Tune-up power is base on MIMO mode

So the stand-alone SAR evaluation is not necessary

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