RF EXPOSURE EVALUATION

FCC ID: P2F-FD9966

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b):

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, ¹⁶ where

- f_(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

Max Measurement Result

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Operating Mode	Channel	Measure d Power	Distance	Calculation results	Limit
	(MHz)	(dBm)	(mm)		
BLE	2402	-1.703	5	0.209	3
	2440	-2.838	5	0.163	3
	2480	-4.388	5	0.115	3
WIFI 2.4G 802.11b	2412	8.04	5	1.978	3
	2437	8.48	5	2.200	3
	2462	8.27	5	2.107	3
WIFI 2.4G 802.11g	2412	8.90	5	2.411	3
	2437	9.59	5	2.841	3
	2462	9.76	5	2.969	3
WIFI 2.4G 802.11n(20)	2412	8.44	5	2.169	3
	2437	9.33	5	2.676	3
	2462	9.57	5	2.842	3
WIFI 5.1G 802.11a	5180	7.59	5	2.613	3
	5200	7.97	5	2.858	3
	5240	7.22	5	2.414	3
WIFI 5.8G 802.11a	5745	7.57	5	2.740	3
	5785	7.49	5	2.699	3
	5825	7.08	5	2.464	3

Note: BLE & WLAN cannot support simultaneous transmission.

Test Results: **PASS**.