

RF EXPOSURE EVALUATION

FCC ID: **2AIPK-MCP**

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ where

- $f_{\text{(GHz)}}$ 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 ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 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.

Mode:

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Distance	calculation results	Power density Limits (mW/cm2)
	(MHz)	(dBm)	(dBm)	(dBm)	(mm)		
802.11b	2412	16.89	16.89 ± 1	17.89	50	1.911	3
	2437	16.56	16.56 ± 1	17.56	50	1.780	3
	2462	17.76	17.76 ± 1	18.76	50	2.359	3
802.11g	2412	12.84	12.84 ± 1	13.84	50	0.752	3
	2437	14.76	14.76 ± 1	15.76	50	1.176	3
	2462	13.80	13.80 ± 1	14.80	50	0.948	3
802.11n (HT20)	2412	12.75	12.75 ± 1	13.75	50	0.737	3
	2437	14.71	14.71 ± 1	15.71	50	1.163	3
	2462	13.91	13.91 ± 1	14.91	50	0.972	3
802.11n (HT40)	2422	10.49	10.49 ± 1	11.49	50	0.439	3
	2437	12.77	12.77 ± 1	13.77	50	0.744	3
	2452	11.16	11.16 ± 1	12.16	50	0.515	3

Test Results: **PASS.**

Note: The min. test separation distance is 50mm



The key position

The WIFI antenna position