



MPE ESTIMATION

FCC ID: 2AVWB-WAG-8F2W6-XS

1, Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Note: F= Frequency in MHz

2, Estimation Result

Mode	Frequency (MHz)	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
2.4G WiFi Ant. 1	2437	18.24	18±1(19)	79.43	5	3.1623	0.04997
2.4G WiFi Ant. 2	2452	17.93	17±1(18)	63.10	5	3.1623	0.03970
MIMO	/	/	/	/	/	/	0.08967
5.2G WiFi Ant. 1	5190	13.89	13±1(14)	25.12	5	3.1623	0.01580
5.2G WiFi Ant. 2	5180	13.40	13±1(14)	25.12	5	3.1623	0.01580
5.2G WiFi Ant. 3	5180	12.94	12±1(13)	19.95	5	3.1623	0.01255
5.2G WiFi Ant. 4	5180	13.35	13±1(14)	25.12	5	3.1623	0.01580
MIMO	/	/	/	/	/	/	0.05995
5.8G WiFi Ant. 1	5745	6.98	6±1(7)	5.01	5	3.1623	0.00315
5.8G WiFi Ant. 2	5775	9.22	9±1(10)	10.00	5	3.1623	0.00629
5.8G WiFi Ant. 3	5755	10.32	10±1(11)	12.59	5	3.1623	0.00792
5.8G WiFi Ant. 4	5825	8.37	8±1(9)	7.94	5	3.1623	0.00500
MIMO	/	/	/	/	/	/	0.02236

$$Pd = \frac{P_{out} * G}{4\pi r^2} ;$$

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report **HK2108303184-1E/2E/3E**, antenna gain=5dBi

2.4G WIFI MPE (max)= 0.08967 (mW/cm²)

5G WIFI MPE (max)= 0.05995 (mW/cm²)

simultaneously MPE=0.08967+0.05995=0.14962(mW/cm²)



when the minimum test separation distance is >20 cm, a distance of 20 cm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.14962 mW/cm^2 which is $< 1.0 \text{ mW/cm}^2$, RF Exposure testing is not required.

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