

MPE ESTIMATION

FCC ID: 2ADUG-FAP655P

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

2, Estimation Result

For WIFI:

Mode	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	14.41	14±1(15)	31.62	1.7	1.48	0.00931
2.4G WIFI ANT.2	15.02	15±1(16)	39.81	2.9	1.95	0.01545
MIMO	/	/	/	/	/	0.02476
5.2G WIFI ANT.1	7.80	7±1(8)	6.31	4.6	2.88	0.00362
5.2G WIFI ANT.2	8.29	8±1(9)	7.94	4.4	2.75	0.00435
MIMO	/	/	/	/	/	0.00797
5.3G WIFI ANT.1	7.27	7±1(8)	6.31	4.6	2.88	0.00362
5.3G WIFI ANT.2	6.66	6±1(7)	5.01	3.7	2.34	0.00234
MIMO	/	/	/	/	/	0.00596
5.6G WIFI ANT.1	8.53	8±1(9)	7.94	4.4	2.75	0.00435
5.6G WIFI ANT.2	9.79	9±1(10)	10.00	4.1	2.57	0.00512
MIMO	/	/	/	/	/	0.00947
5.8G WIFI ANT.1	9.68	9±1(10)	10.00	3.7	2.34	0.00467
5.8G WIFI ANT.2	10.42	10±1(11)	12.59	3.1	2.04	0.00512
MIMO	/	/	/	/	/	0.00979

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK2411148226-1E/-2E/3E,

2.4G antenna gain=ant.1: 1.7 dBi/ ant.2: 2.9 dBi; 5.2G antenna gain= ant.1: 4.6 dBi/ ant.2: 4.4 dBi

5.3G antenna gain= ant.1: 4.6 dBi/ ant.2: 3.7 dBi; 5.6G antenna gain= ant.1: 4.4 dBi/ ant.2: 4.1 dBi

5.8G antenna gain= ant.1: 3.7 dBi/ ant.2: 3.1 dBi

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 0.02476 which is < 1.0 , RF Exposure testing is not required.

Note: the device could not transmit simultaneously in 2.4G and 5G.

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