

MPE ESTIMATION

FCC ID: **2A6YK-VECSIHUB**

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 2.4G /5GWIFI/BT:

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	16.75	16±1(17)	50.12	1	1.26	0.01256
2.4G WIFI Ant 2	18.68	18±1(19)	79.43	1	1.26	0.01990
MIMO	/	/	/	/	/	0.03246
5.2G WIFI Ant 1	11.81	11±1(12)	15.85	1	1.26	0.00397
5.2G WIFI Ant 2	12.29	12±1(13)	19.95	1	1.26	0.00500
MIMO	/	/	/	/	/	0.00897
5.8G WIFI Ant 1	10.15	10±1(11)	12.59	1	1.26	0.00315
5.8G WIFI Ant 2	11.05	11±1(12)	15.85	1	1.26	0.00397
MIMO	/	/	/	/	/	0.00713
EDR	-0.88	-1.5±1(-0.5)	0.891	1	1.26	0.00022

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report **HK2205051851-1E/2E/3E/4E**,

2.4G antenna gain=1dBi.

5G antenna gain=1dBi.

BT antenna gain=1dBi.

WiFi and BT Simultaneous evaluation:

0.03246 mW/cm²+0.00022 mW/cm²=0.03268 mW/cm²<1.

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 0.03268 mW/cm² which is < 1.0 mW/cm², RF Exposure testing is not required.

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

-----The End-----