



MPE ESTIMATION

**Test report
On Behalf of
Sinocan International Technologies Co., Ltd
For
Interactive Touch Panel
Model No.: S5EC86, S5C86, S5M86, S5EC75, S5C75, S5M75
FCC ID: 2AT6L-S5EC86**

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Report Number: HK1907191729-5E

**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**For antenna 1:****2.4G 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)
11b	14.48	14±1(15)	31.62	1	1.2589	0.00792
11g	13.42	13±1(14)	25.12	1	1.2589	0.00629
11n/HT20	10.52	10±1(11)	12.59	1	1.2589	0.00315
11n/HT40	9.86	10±1(11)	12.59	1	1.2589	0.00315

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1907191729-1E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

**5.8G 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)
11a	9.87	9±1(10)	10.00	1	1.2589	0.00251
11n(HT20)	9.79	9±1(10)	10.00	1	1.2589	0.00251
11n(HT40)	9.30	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT20)	8.89	8±1(9)	7.94	1	1.2589	0.00199
11ac(HT40)	8.89	8±1(9)	7.94	1	1.2589	0.00199
11ac(HT80)	8.50	8±1(9)	7.94	1	1.2589	0.00199

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1907191729-3E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

**For antenna 2:****2.4G 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)
11b	14.47	14±1(15)	31.62	1	1.2589	0.00792
11g	12.59	12±1(13)	19.95	1	1.2589	0.00500
11n/HT20	10.82	10±1(11)	12.59	1	1.2589	0.00315
11n/HT40	10.39	10±1(11)	12.59	1	1.2589	0.00315

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1907191729-1E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

5.8G 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)
11a	9.76	9±1(10)	10.00	1	1.2589	0.00251
11n(HT20)	9.74	9±1(10)	10.00	1	1.2589	0.00251
11n(HT40)	9.40	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT20)	8.75	8±1(9)	7.94	1	1.2589	0.00199
11ac(HT40)	8.70	8±1(9)	7.94	1	1.2589	0.00199
11ac(HT80)	8.61	8±1(9)	7.94	1	1.2589	0.00199

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1907191729-3E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi



For MIMO: 2.4G 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)
11b	--	--	--	--	--	--
11g	--	--	--	--	--	--
11n/HT20	13.60	13±1(14)	25.12	4.01	2.518	0.01256
11n/HT40	13.11	13±1(14)	25.12	4.01	2.518	0.01256

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1907191729-1E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

5.8G 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)
11b	--	--	--	--	--	--
11n(HT20)	12.78	12±1(13)	19.95	4.01	2.518	0.00998
11n(HT40)	12.36	12±1(13)	19.95	4.01	2.518	0.00998
11ac(HT20)	11.82	11±1(12)	15.85	4.01	2.518	0.00792
11ac(HT40)	11.75	11±1(12)	15.85	4.01	2.518	0.00792
11ac(HT80)	11.57	11±1(12)	15.85	4.01	2.518	0.00792

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1907191729-3E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

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



when the minimum test separation distance is >20 cm, a distance of 20 cm is applied to determine SAR test exclusion. The test exclusion threshold is 0.01256mW/cm^2 which is $< 1.0\text{mW/cm}^2$, SAR testing is not required.

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