MPE ESTIMATION

FCC ID: **2AIT9-PG-109**

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+433M:

433MHz:

EIRP(dBm)=78.14(dBuV/m)-95.2=-17.06(dBm)

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
2462	13.01	13±1(14)	25.12	1.37	1.37	0.006854
433.9253	-17.06	-17±1(-16)	0.03	-3	0.50	0.000003

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

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.
Conducted power see the test report HK2406273462-1E/2E,
WIFI antenna gain=1.37dBi;
433M antenna gain=-3dBi
2.4G WIFI MPE (max)= 0.006854 (mW/cm²)
433M MPE (max)= 0.000003 (mW/cm²)
simultaneously MPE=0.006854+0.000003=0.006857(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 0.006857 which is< 1.0, RF Exposure testing is not required.

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