

## MPE ESTIMATION

FCC ID: 2ARPEACA-002-S

### 1. Limit for General Population/Uncontrolled Exposures

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

Note: F= Frequency in MHz

### 2. Estimation Result

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm <sup>2</sup> )
11b	12.72	12±1(13)	19.95	1	1.2589	0.004999
11g	10.56	10±1(11)	12.59	1	1.2589	0.003155
11n/HT20	9.72	9±1(10)	10	1	1.2589	0.002506
$Pd = \frac{P_{out} * G}{4\pi r^2}$						
Note:						
Note: The estimation distance is 20cm.						
Note: PK Output power= conducted power.						
Conducted power see the test report UNIA2018102516FR-01, antenna gain=1dBi.						

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm <sup>2</sup> )
11b	1	12.63	18.32	1	1.2589	0.004590
	6	12.45	17.58	1	1.2589	0.004405
	11	12.72	18.71	1	1.2589	0.004688
11g	1	10.34	10.81	1	1.2589	0.002709
	6	10.36	10.86	1	1.2589	0.002721
	11	10.56	11.37	1	1.2589	0.002849
11n/HT20	1	9.68	9.29	1	1.2589	0.002328
	6	9.59	9.10	1	1.2589	0.002280
	11	9.72	9.38	1	1.2589	0.002350
$Pd = \frac{P_{out} * G}{4\pi r^2}$						
Note:						
Note: The estimation distance is 20cm.						
Note: PK Output power= conducted power.						
Conducted power see the test report UNIA2018102516FR-01, antenna gain=1dBi.						

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