

## MPE ESTIMATION

FCC ID: 2ASWIGIFIW1500

### 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	12.63	12±1(13)	19.95	1	1.2589	0.004999
11g	12.22	12±1(13)	19.95	1	1.2589	0.004999
11n/HT20	11.85	11±1(12)	15.85	1	1.2589	0.003971
$Pd = \frac{Pout * G}{4\pi r^2}$						
Note:						
Note: The estimation distance is 20cm.						
Note: PK Output power= conducted power.						
Conducted power see the test report UNIA19041237FR-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	12.67	18.49	1	1.2589	0.004634
	6	12.27	16.87	1	1.2589	0.004226
	11	12.63	18.32	1	1.2589	0.004591
11g	1	11.96	15.70	1	1.2589	0.003935
	6	12.22	16.67	1	1.2589	0.004178
	11	12.08	16.14	1	1.2589	0.004045
11n/HT20	1	11.39	13.77	1	1.2589	0.003451
	6	11.85	15.31	1	1.2589	0.003837
	11	11.67	14.69	1	1.2589	0.003681

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

Note:

Note: The estimation distance is 20cm.

Note: PK Output power= conducted power.

Conducted power see the test report UNIA19041237FR-01, antenna gain=1dBi.

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold

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