



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: 2ABZMW75AP

Project No. : 1405C054
Equipment : Wireless N900 High Power Dual Band Access Point
Model : W75AP
Applicant : SHENZHEN IP-COM NETWORKS CO.,LTD.
**Address : Unit A, First Floor, Tower E3, No. 1001,
Zhongshanyuan Road, Nanshan District,
Shenzhen,China. 518052**

According: : FCC Guidelines for Human Exposure IEEE C95.1

Neutron Engineering Inc.

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
0	Tenda	Q5078	Internal	N/A	5
1	Tenda	Q5078	Internal	N/A	5
2	Tenda	Q5078	Internal	N/A	5



TEST RESULTS

EUT:	Wireless N900 High Power Dual Band Access Point	Model Name :	W75AP
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX A Mode/ CH36, CH40, CH48		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5	3.1623	15.53	35.7273	0.02248798	1	Complies
5	3.1623	15.55	35.8922	0.02259178	1	Complies
5	3.1623	15.71	37.2392	0.02343961	1	Complies

EUT:	Wireless N900 High Power Dual Band Access Point	Model Name :	W75AP
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/ TX N20 Mode-Total / CH36, CH40, CH48		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5	3.1623	14.82	30.3389	0.01909635	1	Complies
5	3.1623	14.82	30.3389	0.01909635	1	Complies
5	3.1623	14.81	30.2691	0.01905243	1	Complies



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EUT:	Wireless N900 High Power Dual Band Access Point	Model Name :	W75AP
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX N40 Mode-Total/ CH38, CH46		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5	3.1623	14.81	30.2691	0.01905243	1	Complies
5	3.1623	14.80	30.1995	0.01900861	1	Complies

The calculated distance is 20 cm