

FCC RF EXPOSURE REPORT

FCC ID: W59XAP1240

Project No. : 1507C072
Equipment : High Power Wireless 300N Outdoor AP
Model : XAP-1240
Applicant : Luxul Wireless
Address : 14203 Minuteman Drive, Suite 201, Draper, UT
USA

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

B T L I N C .

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	N/A	N/A	Internal	N/A	7	TX/RX
2	N/A	N/A	Internal	N/A	7	TX/RX

TEST RESULTS

EUT :	High Power Wireless 300N Outdoor AP	Model Name :	XAP-1240
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE /CH01, CH06, CH11		

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
7	5.0119	27.69	587.4894	0.58607119	1	Complies
7	5.0119	28.31	677.6415	0.67600572	1	Complies
7	5.0119	27.52	564.9370	0.56357325	1	Complies

EUT :	High Power Wireless 300N Outdoor AP	Model Name :	XAP-1240
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G MODE /CH01, CH06, CH11		

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
7	5.0119	28.60	724.4360	0.72268721	1	Complies
7	5.0119	28.89	774.4618	0.77259229	1	Complies
7	5.0119	28.59	722.7698	0.72102508	1	Complies

EUT :	High Power Wireless 300N Outdoor AP	Model Name :	XAP-1240
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE_ Total /CH01, CH06, CH11		

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
7	5.0119	28.55	716.1434	0.71441468	1	Complies
7	5.0119	28.38	688.6523	0.68698993	1	Complies
7	5.0119	27.76	597.0353	0.59559408	1	Complies

EUT :	High Power Wireless 300N Outdoor AP	Model Name :	XAP-1240
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE_ Total /CH03, CH06, CH09		

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
7	5.0119	27.80	602.5596	0.60110504	1	Complies
7	5.0119	25.67	368.9776	0.36808691	1	Complies
7	5.0119	26.35	431.5191	0.43047741	1	Complies

Note: the calculated distance is 20 cm.