



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: KA2IR600LB1

Project No. : 1301C059
Equipment : Wireless N150 Cloud Router
Model : WF2415
Applicant : D-LINK CORPORATION
Address : No. 289, Sinhu 3rd Rd., Neihu District, Taiwan

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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
Group 1		C037-511238-A (SSR-30090)	Dipole	N/A	4.0	
Group 2		260-31069	Dipole	N/A	3.29	

ANT 1 and ANT 2 are the same type antenna, ANT 1 is recorded as the worst case since which gain is higher than ANT 2.



TEST RESULTS

EUT:	Wireless N150 Cloud Router	Model Name :	DIR-600L
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	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
4	2.5119	22.74	187.9317	0.09396159	1	Complies
4	2.5119	22.83	191.8669	0.09592910	1	Complies
4	2.5119	22.82	191.4256	0.09570847	1	Complies

EUT:	Wireless N150 Cloud Router	Model Name :	DIR-600L
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	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
4	2.5119	22.15	164.0590	0.08202578	1	Complies
4	2.5119	22.32	170.6082	0.08530026	1	Complies
4	2.5119	22.11	162.5549	0.08127376	1	Complies



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EUT:	Wireless N150 Cloud Router	Model Name :	DIR-600L
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20MHz 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
4	2.5119	21.82	152.0548	0.07602394	1	Complies
4	2.5119	21.76	149.9685	0.07498085	1	Complies
4	2.5119	21.74	149.2794	0.07463635	1	Complies

EUT:	Wireless N150 Cloud Router	Model Name :	DIR-600L
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40MHz MODE 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
4	2.5119	19.19	82.9851	0.04149066	1	Complies
4	2.5119	19.41	87.2971	0.04364660	1	Complies
4	2.5119	19.29	84.9180	0.04245710	1	Complies

Note: the calculation distance is 20cm