



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: KA2IR300D1

Project No. : 1212C303B
Equipment : Wireless router
Model : DIR-300;DIR-600; DIR-607
Applicant : D-LINK CORPORATION
Address : No. 289, Sinhu 3rd Rd., Neihu District, Taiwan

According: : FCC Guidelines for Human Exposure IEEE C95.05.1

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 Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Integral	N/A	2.50	



TEST RESULTS

EUT:	Wireless Router	Model Name :	DIR-300
Temperature:	24 °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
2.5	1.7783	19.17	82.6038	0.02923818	1	Complies
2.5	1.7783	19.20	83.1764	0.02944085	1	Complies
2.5	1.7783	19.02	79.7995	0.02824557	1	Complies

EUT:	Wireless Router	Model Name :	DIR-300
Temperature:	24 °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
2.5	1.7783	23.57	227.5097	0.08052864	1	Complies
2.5	1.7783	23.66	232.2737	0.08221487	1	Complies
2.5	1.7783	23.72	235.5049	0.08335859	1	Complies



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EUT:	Wireless Router	Model Name :	DIR-300
Temperature:	24 °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
2.5	1.7783	23.33	215.2782	0.07619919	1	Complies
2.5	1.7783	23.35	216.2719	0.07655091	1	Complies
2.5	1.7783	23.45	221.3095	0.07833401	1	Complies

EUT:	Wireless Router	Model Name :	DIR-300
Temperature:	24 °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
2.5	1.7783	23.44	220.8005	0.07815385	1	Complies
2.5	1.7783	23.35	216.2719	0.07655091	1	Complies
2.5	1.7783	23.50	223.8721	0.07924108	1	Complies

Note: the calculation distance is 20cm