FCC RF EXPOSURE REPORT

FCC ID: KA2IR611A1

Project No.	**: 1605C153**
Equipment	**: Wireless N300 Router**
Model	**: DIR-611**
Applicant	**: D-Link Corporation**
Address	**: 17595 Mt. Herrmann , FountainValley, California, United States**
According:	**: FCC Guidelines for Human Exposure IEEE C95.1**

BTL 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.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	D-Link	N/A	Dipole	N/A	5
2	D-Link	N/A	Dipole	N/A	5

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R), all transmit signals are completely uncorrelated, then, Direction gain = GANT, that is Directional gain=5.

TEST RESULTS

EUT：	Wireless N300 Router	Model Name :	DIR-611
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	TX B 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
5	3.1623	26.65	462.3810	0.29104	1	Complies
5	3.1623	26.77	475.3352	0.29919	1	Complies
5	3.1623	26.68	465.5861	0.29306	1	Complies

EUT：	Wireless N300 Router	Model Name :	DIR-611
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	TX G 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
5	3.1623	28.63	729.4575	0.45915	1	Complies
5	3.1623	29.59	909.9133	0.57273	1	Complies
5	3.1623	27.72	591.5616	0.37235	1	Complies

EUT：	Wireless N300 Router	Model Name :	DIR-611
Temperature:	25 ℃	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
5	3.1623	27.58	572.7960	0.36054	1	Complies
5	3.1623	29.35	860.9938	0.54194	1	Complies
5	3.1623	27.73	592.9253	0.37321	1	Complies

EUT：	Wireless N300 Router	Model Name :	DIR-611
Temperature:	25 ℃	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
5	3.1623	25.61	363.9150	0.22906	1	Complies
5	3.1623	28.83	763.8358	0.48078	1	Complies
5	3.1623	25.91	389.9420	0.24544	1	Complies

Note: the calculated distance is 20 cm.