



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: KA2IR615S1

IC: 4216A-IR615S1

Project No. : 1304C019
Equipment : Wireless router
Model : DIR-617; GO-RT-N300; DIR-615S1
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:

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

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 Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	GONGJIN	800000000106	Integral Antenna	N/A	2.5	TX/RX
2	GONGJIN	800000000106	Integral Antenna	N/A	2.5	TX/RX

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R).



TEST RESULTS

EUT:	Wireless Router	Model Name :	DIR-617
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	17.01	50.2343	0.01778076	1	Complies
2.5	1.7783	16.85	48.4172	0.01713761	1	Complies
2.5	1.7783	17.03	50.4661	0.01786283	1	Complies

EUT:	Wireless Router	Model Name :	DIR-617
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	14.73	29.7167	0.01051842	1	Complies
2.5	1.7783	14.67	29.3089	0.01037410	1	Complies
2.5	1.7783	14.68	29.3765	0.01039801	1	Complies



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EUT:	Wireless Router	Model Name :	DIR-617
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20MHz MODE CH01/CH06/CH11 ANT1 + ANT2		

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	13.98	25.0035	0.00885014	1	Complies
2.5	1.7783	14.11	25.7632	0.00911907	1	Complies
2.5	1.7783	13.94	24.7742	0.00876901	1	Complies

EUT:	Wireless Router	Model Name :	DIR-617
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40MHz MODE CH03/CH06/CH09 ANT1 + ANT2		

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	14.07	25.5270	0.00903546	1	Complies
2.5	1.7783	13.99	25.0611	0.00887055	1	Complies
2.5	1.7783	14.23	26.4850	0.00937455	1	Complies

Note: the calculation distance is 20cm