FCC RF EXPOSURE REPORT FCC ID: T58DL4311R2

Project No. : 1310C137

Equipment : 150Mbps Wireless N ADSL2+ Modem Router

Model : DL4311D; DL4311

Applicant : NETIS SYSTEMS CO., LTD

Address : 4F&5F R&D Building, Oriental Cyberport,

High-tech Industrial Park, Nanshan, Shenzhen,

China

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

MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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 <math>R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)	Note
1	RF link	RF21S00006A	Dipole	SMA	5.08	Detachable antenna for model DL4311D

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)	Note
1	RF link	RF21C00152A	Dipole	N/A	5.05	Non-detachable antenna for model DL4311

TEST RESULTS

EUT:	150Mbps Wireless N ADSL2+ Modem Router	Model Name :	DL4311D		
Temperature:	24 °C	Relative Humidity:	60 %		
Pressure:	1016 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/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5.08	3.2211	17.57	57.1479	0.03663957	1	Complies
5.08	3.2211	17.51	56.3638	0.03613686	1	Complies
5.08	3.2211	17.49	56.1048	0.03597082	1	Complies

EUT:	150Mbps Wireless N ADSL2+ Modem Router	Model Name :	DL4311D		
Temperature:	24 °C	Relative Humidity:	60 %		
Pressure:	1016 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/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5.08	3.2211	23.43	220.2926	0.14123761	1	Complies
5.08	3.2211	23.41	219.2805	0.14058869	1	Complies
5.08	3.2211	23.28	212.8139	0.13644272	1	Complies

EUT:	150Mbps Wireless N ADSL2+ Modem Router	Model Name :	DL4311D			
Temperature:	24 ℃	Relative Humidity:	60 %			
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz			
Test Mode :	TX N-20M MODE /CH01, CH06, CH11					

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5.08	3.2211	22.30	169.8244	0.10888057	1	Complies
5.08	3.2211	22.50	177.8279	0.11401195	1	Complies
5.08	3.2211	22.40	173.7801	0.11141672	1	Complies

EUT:	150Mbps Wireless N ADSL2+ Modem Router	Model Name :	DL4311D		
Temperature:	24 °C	Relative Humidity:	60 %		
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE /CH03, CH06, CH09				

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5.08	3.2211	23.32	214.7830	0.13770521	1	Complies
5.08	3.2211	23.51	224.3882	0.14386342	1	Complies
5.08	3.2211	23.43	220.2926	0.14123761	1	Complies

Note: the calculation distance is 20cm.