

FCC RF EXPOSURE REPORT

FCC ID: R7RDWS113

Project No. : 1407011
Equipment : WIFI STATION
Model : DWS-1113
Applicant : VAST TECHNOLOGIES INC.
Address : 7F, NO.80,SEC.1,KUANG FU RD., SANCHUNG DIST.,
NEW TAIPEI CITY, Taiwan

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	Cortec	NB0159-A100BX	Printed	N/A	3.0

TEST RESULTS

EUT :	WIFI STATION	Model Name :	DWS-1113
Temperature :	25 °C	Relative Humidity:	55 %
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
3	1.9953	15.43	34.9140	0.01386597	1	Complies
3	1.9953	15.92	39.0841	0.01552210	1	Complies
3	1.9953	16.22	41.8794	0.01663223	1	Complies

EUT :	WIFI STATION	Model Name :	DWS-1113
Temperature :	25 °C	Relative Humidity:	55 %
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
3	1.9953	23.53	225.4239	0.08952625	1	Complies
3	1.9953	23.35	216.2719	0.08589154	1	Complies
3	1.9953	23.33	215.2782	0.08549690	1	Complies

EUT :	WIFI STATION	Model Name :	DWS-1113
Temperature:	25 °C	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
3	1.9953	20.4	109.6478	0.04354621	1	Complies
3	1.9953	20.8	120.2264	0.04774747	1	Complies
3	1.9953	20.9	123.0269	0.04885965	1	Complies

EUT :	WIFI STATION	Model Name :	DWS-1113
Temperature:	25 °C	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
3	1.9953	20.56	113.7627	0.04518043	1	Complies
3	1.9953	20.34	108.1434	0.04294873	1	Complies
3	1.9953	20.81	120.5036	0.04785754	1	Complies

Note: the calculated distance is 20 cm.