

FCC RF EXPOSURE REPORT

FCC ID:NDD9562281408

Project No. : 1412C250
Equipment : 5-in-1 N150 Wi-Fi Router,
Access Point & Range Extender
Model : BR-6238nS, BR-6228nS V3
Applicant : EDIMAX TECHNOLOGY CO., LTD
Address : No.3, Wu-Chuan 3rd Road, Wu-Ku, New Taipei
city 24891, Taiwan

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

B T L I N C .

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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)	Note
1	TONGWEI	AAT150000001	Dipole	N/A	4.67	TX/RX

TEST RESULTS

EUT :	5-in-1 N150 Wi-Fi Router, Access Point & Range Extender	Model Name :	BR-6238nS, BR-6228nS V3
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
4.67	2.9309	20.94	124.1652	0.07243532	1	Complies
4.67	2.9309	20.97	125.0259	0.07293742	1	Complies
4.67	2.9309	20.60	114.8154	0.06698081	1	Complies

EUT :	5-in-1 N150 Wi-Fi Router, Access Point & Range Extender	Model Name :	BR-6238nS, BR-6228nS V3
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
4.67	2.9309	23.90	245.4709	0.14320242	1	Complies
4.67	2.9309	23.65	231.7395	0.13519181	1	Complies
4.67	2.9309	23.84	242.1029	0.14123761	1	Complies

EUT :	5-in-1 N150 Wi-Fi Router, Access Point & Range Extender	Model Name :	BR-6238nS, BR-6228nS V3
Temperature:	25 °C	Relative Humidity:	55 %
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/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.67	2.9309	23.99	250.6109	0.14620101	1	Complies
4.67	2.9309	23.95	248.3133	0.14486063	1	Complies
4.67	2.9309	23.97	249.4595	0.14552928	1	Complies

EUT :	5-in-1 N150 Wi-Fi Router, Access Point & Range Extender	Model Name :	BR-6238nS, BR-6228nS V3
Temperature:	25 °C	Relative Humidity:	55 %
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/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.67	2.9309	23.81	240.4363	0.14026534	1	Complies
4.67	2.9309	23.90	245.4709	0.14320242	1	Complies
4.67	2.9309	23.85	242.6610	0.14156320	1	Complies

Note: the calculated distance is 20 cm.