

FCC RF EXPOSURE REPORT

FCC ID: NDD9562881417

Project No. : 1410C136
Equipment : AC600 Multi-Function Dual-Band Wi-Fi Router
Model : BR-6208ACL; BR-6288ACL
Applicant : Edimax Technology Co Ltd
**Address : No.3 , Wu-Chuan 3rd Road , Wu-Ku Industrial
Park ., Taipei Hsien, Taiwan**

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

B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, China.
TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

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

2.4G

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	LYNwave	ALO140-221030-000000	Printed	N/A	3.50

5G

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	LYNwave	ALO140-221030-000000	Printed	N/A	3.80

TEST RESULTS

2.4G

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
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
3.5	2.2387	17.35	54.3250	0.02420752	1	Complies
3.5	2.2387	17.38	54.7016	0.02437532	1	Complies
3.5	2.2387	17.43	55.3350	0.02465758	1	Complies

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
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
3.5	2.2387	23.74	236.5920	0.10542664	1	Complies
3.5	2.2387	23.80	239.8833	0.10689327	1	Complies
3.5	2.2387	23.75	237.1374	0.10566967	1	Complies

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
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
3.5	2.2387	23.06	202.3019	0.09014681	1	Complies
3.5	2.2387	23.15	206.5380	0.09203444	1	Complies
3.5	2.2387	23.08	203.2357	0.09056291	1	Complies

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
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
3.5	2.2387	23.32	214.7830	0.09570847	1	Complies
3.5	2.2387	23.12	205.1162	0.09140088	1	Complies
3.5	2.2387	23.15	206.5380	0.09203444	1	Complies

BAND 1

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX A MODE /CH36, CH40, CH48		

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
3.8	2.3988	15.07	32.1366	0.01534442	1	Complies
3.8	2.3988	15.23	33.3426	0.01592027	1	Complies
3.8	2.3988	15.13	32.5837	0.01555788	1	Complies

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 MODE /CH36, CH40, CH48		

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
3.8	2.3988	14.89	30.8319	0.01472144	1	Complies
3.8	2.3988	14.61	28.9068	0.01380227	1	Complies
3.8	2.3988	14.46	27.9254	0.01333369	1	Complies

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 MODE /CH38, CH46		

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
3.8	2.3988	14.58	28.7078	0.01370725	1	Complies
3.8	2.3988	14.79	30.1301	0.01438634	1	Complies

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC20 MODE /CH36, CH40, CH48		

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
3.8	2.3988	16.91	49.0908	0.02343961	1	Complies
3.8	2.3988	14.24	26.5461	0.01267507	1	Complies
3.8	2.3988	14.04	25.3513	0.01210460	1	Complies

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC40 MODE /CH38, CH46		

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
3.8	2.3988	13.39	21.8273	0.01042198	1	Complies
3.8	2.3988	14.53	28.3792	0.01355035	1	Complies

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC80 MODE /CH42		

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
3.8	2.3988	13.91	24.6037	0.01174763	1	Complies

BAND 4

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX A MODE /CH149, CH157, CH165		

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
3.8	2.3988	15.30	33.8844	0.01617895	1	Complies
3.8	2.3988	15.13	32.5837	0.01555788	1	Complies
3.8	2.3988	15.21	33.1894	0.01584712	1	Complies

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 MODE / CH149, CH157, CH165		

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
3.8	2.3988	14.32	27.0396	0.01291072	1	Complies
3.8	2.3988	13.85	24.2661	0.01158645	1	Complies
3.8	2.3988	14.18	26.1818	0.01250116	1	Complies

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 MODE /CH151, CH159		

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
3.8	2.3988	14.59	28.7740	0.01373885	1	Complies
3.8	2.3988	14.81	30.2691	0.01445275	1	Complies

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC20 MODE /CH149, CH157, CH165		

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
3.8	2.3988	14.03	25.2930	0.01207676	1	Complies
3.8	2.3988	14.20	26.3027	0.01255886	1	Complies
3.8	2.3988	14.04	25.3513	0.01210460	1	Complies

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC40 MODE /CH151, CH159		

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
3.8	2.3988	13.89	24.4906	0.01169366	1	Complies
3.8	2.3988	14.20	26.3027	0.01255886	1	Complies

EUT :	AC600 Multi-Function Dual-Band Wi-Fi Router	Model Name :	BR-6208ACL
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC80 MODE /CH155		

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
3.8	2.3988	14.4	27.5423	0.01315075	1	Complies

Note: the calculated distance is 20 cm.