

FCC RF EXPOSURE REPORT

FCC ID: X7D-IP04268

Project No. : 1410C192
Equipment : AC1200 Long Range Wireless Dual Band Router
Model : A850R, IP04268
Applicant : ZIONCOM ELECTRONICS (SHENZHEN) LTD.
Address : Building A1~A2, Lantian Science and Technology Park, Xinyu Road Xinqiao Henggang Block Shajing Street, Baoan District, Shenzhen City, China
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:

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

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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1		H001-10165-B	Dipole	N/A	5	TX/RX
2		H001-10165-B	Dipole	N/A	5	TX/RX

TEST RESULTS

EUT :	A850R, IP04268	Model Name :	AC1200 Long Range Wireless Dual Band Router
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B Mode_CH01/06/11_Total		

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
5	3.1623	23.87	243.7811	0.15344416	1	Complies
5	3.1623	23.74	236.5920	0.14891909	1	Complies
5	3.1623	23.87	243.7811	0.15344416	1	Complies

EUT :	A850R, IP04268	Model Name :	AC1200 Long Range Wireless Dual Band Router
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G Mode_CH01/06/11_Total		

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
5	3.1623	27.01	502.3426	0.31619163	1	Complies
5	3.1623	28.1	645.6542	0.40639688	1	Complies
5	3.1623	27.4	549.5409	0.34589985	1	Complies

EUT :	A850R, IP04268	Model Name :	AC1200 Long Range Wireless Dual Band Router
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
5	3.1623	25.84	383.7072	0.24151848	1	Complies
5	3.1623	25.07	321.3661	0.20227880	1	Complies
5	3.1623	24.64	291.0717	0.18321050	1	Complies

EUT :	A850R, IP04268	Model Name :	AC1200 Long Range Wireless Dual Band Router
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
5	3.1623	22.37	172.5838	0.10863015	1	Complies
5	3.1623	24.45	278.6121	0.17536801	1	Complies
5	3.1623	23.41	219.2805	0.13802265	1	Complies

Note: the calculated distance is 20 cm.