

FCC RF EXPOSURE REPORT

FCC ID: BEJ-SPJ2BW

Project No. : 1701C176
Equipment : WIRELESS ACTIVE SUBWOOFER
Model : SPJ2B-W
Applicant : LG Electronics USA
**Address : 1000 Sylvan Avenue Englewood Cliffs New
Jersey United States 07632**

**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

5.8G Wireless:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	Internal	N/A	2.85
2	N/A	N/A	Internal	N/A	2.85

TEST RESULTS

5.8G Wireless:

For ANT 1

EUT :	WIRELESS ACTIVE SUBWOOFER	Model Name :	SPJ2B-W
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX Mode / CH01, CH18 CH35		

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
2.85	1.9275	10.53	11.2980	0.00433	1	Complies
2.85	1.9275	10.48	11.1686	0.00428	1	Complies
2.85	1.9275	10.09	10.2094	0.00392	1	Complies

For ANT 2

EUT :	WIRELESS ACTIVE SUBWOOFER	Model Name :	SPJ2B-W
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX Mode / CH01, CH18 CH35		

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
2.85	1.9275	8.54	7.1450	0.00274	1	Complies
2.85	1.9275	8.97	7.8886	0.00303	1	Complies
2.85	1.9275	7.64	5.8076	0.00223	1	Complies

Note: the calculated distance is 20 cm.