

FCC RF EXPOSURE REPORT

FCC ID: ACJ-SU-C500

Project No. : 1508C256A
Equipment : CD STEREO SYSTEM
Model : SU-C500
Applicant : Panasonic Corporation of North America
Address : Two Riverfront Plaza,9th Floor Newark New Jersey
United States 07102-5490

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

2.4G

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Dipole	U.FL	-1.77
2	N/A	N/A	Dipole	U.FL	-0.55

5G

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Dipole	U.FL	-1.01
2	N/A	N/A	Dipole	U.FL	-0.82

TEST RESULTS

2.4G

EUT :	CD STEREO SYSTEM	Model Name :	SU-C500
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
-0.55	0.8810	18.43	69.6627	0.01221660	1	Complies
-0.55	0.8810	19.21	83.3681	0.01462010	1	Complies
-0.55	0.8810	19.37	86.4968	0.01516877	1	Complies

EUT :	CD STEREO SYSTEM	Model Name :	SU-C500
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
-0.55	0.8810	14.92	31.0456	0.00544440	1	Complies
-0.55	0.8810	21.82	152.0548	0.02666554	1	Complies
-0.55	0.8810	16.63	46.0257	0.00807143	1	Complies

EUT :	CD STEREO SYSTEM	Model Name :	SU-C500
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
-0.55	0.8810	13.36	21.6770	0.00380146	1	Complies
-0.55	0.8810	22.1	162.1810	0.02844136	1	Complies
-0.55	0.8810	15.78	37.8443	0.00663667	1	Complies

EUT :	CD STEREO SYSTEM	Model Name :	SU-C500
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
-0.55	0.8810	20.42	110.1539	0.01931748	1	Complies
-0.55	0.8810	20.23	105.4387	0.01849057	1	Complies
-0.55	0.8810	15.11	32.4340	0.00568788	1	Complies

UNII-1

EUT :	CD STEREO SYSTEM	Model Name :	SU-C500
Temperature:	24 °C	Relative Humidity:	52 %
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
-0.82	0.8279	12.42	17.4582	0.00287707	1	Complies
-0.82	0.8279	12.7	18.6209	0.00306867	1	Complies
-0.82	0.8279	12.83	19.1867	0.00316192	1	Complies

EUT :	CD STEREO SYSTEM	Model Name :	SU-C500
Temperature:	24 °C	Relative Humidity:	52 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 MODE_ Total /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
-0.82	0.8279	11.78	15.0661	0.00248285	1	Complies
-0.82	0.8279	12.08	16.1436	0.00266042	1	Complies
-0.82	0.8279	12.3	16.9824	0.00279866	1	Complies

EUT :	CD STEREO SYSTEM	Model Name :	SU-C500
Temperature:	24 °C	Relative Humidity:	52 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 MODE_ Total /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
-0.82	0.8279	10.8	12.0226	0.00198130	1	Complies
-0.82	0.8279	11.3	13.4896	0.00222306	1	Complies

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EUT :	CD STEREO SYSTEM	Model Name :	SU-C500
Temperature:	24 °C	Relative Humidity:	52 %
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
-0.82	0.8279	8.78	7.5509	0.00124437	1	Complies
-0.82	0.8279	7.83	6.0674	0.00099989	1	Complies
-0.82	0.8279	8.06	6.3973	0.00105427	1	Complies

EUT :	CD STEREO SYSTEM	Model Name :	SU-C500
Temperature:	24 °C	Relative Humidity:	52 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 MODE_ Total /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
-0.82	0.8279	8.59	7.2277	0.00119111	1	Complies
-0.82	0.8279	7.66	5.8345	0.00096150	1	Complies
-0.82	0.8279	8	6.3096	0.00103980	1	Complies

EUT :	CD STEREO SYSTEM	Model Name :	SU-C500
Temperature:	24 °C	Relative Humidity:	52 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 MODE_ Total /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
-0.82	0.8279	9.44	8.7902	0.00144861	1	Complies
-0.82	0.8279	8.93	7.8163	0.00128810	1	Complies

Note: the calculated distance is 20 cm.