FCC RF EXPOSURE REPORT

FCC ID: ACJ-SC-C70

Project No.	**: 1706C058**
Equipment	**: Compact Stereo System**
Model	**: SC-C70**
Applicant	**: Panasonic Corporation of North America**
Address	**: Two Riverfront Plaza, 9th Floor, Newark, New Jersey 07102-5490, United States**
According:	**: FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091**

BTL INC.

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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

BT:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	Technics	N/A	Chip	N/A	-1.22

WIFI:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	PCB	N/A	-1.43
2	N/A	N/A	PCB	N/A	1.59

TEST RESULTS

BT:

EUT:	Compact Stereo System	Model Name :	SC-C70
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX Mode _1Mbps		

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
-1.22	0.7551	9.81	9.5719	0.00143863	1	Complies
-1.22	0.7551	9.71	9.3541	0.00140589	1	Complies
-1.22	0.7551	9.87	9.7051	0.00145865	1	Complies

EUT:	Compact Stereo System	Model Name :	SC-C70
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX Mode _3Mbps		

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
-1.22	0.7551	9.16	8.2414	0.00123866	1	Complies
-1.22	0.7551	9.00	7.9433	0.00119385	1	Complies
-1.22	0.7551	9.21	8.3368	0.00125300	1	Complies

WIFI:

EUT:	Compact Stereo System	Model Name :	SC-C70
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX B Mode_CH01/06/11		

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
1.59	1.4421	17.95	62.3735	0.01790401	1	Complies
1.59	1.4421	19.01	79.6159	0.02285338	1	Complies
1.59	1.4421	19.28	84.7227	0.02431926	1	Complies

EUT:	Compact Stereo System	Model Name :	SC-C70
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX G Mode_CH01/06/11		

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
1.59	1.4421	24.03	252.9298	0.07260230	1	Complies
1.59	1.4421	23.63	230.6747	0.06621408	1	Complies
1.59	1.4421	23.60	229.0868	0.06575827	1	Complies

EUT:	Compact Stereo System	Model Name :	SC-C70
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX N20 Mode_CH01/06/11		

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
1.59	1.4421	23.95	248.3133	0.07127716	1	Complies
1.59	1.4421	23.69	233.8837	0.06713521	1	Complies
1.59	1.4421	23.56	226.9865	0.06515539	1	Complies

EUT:	Compact Stereo System	Model Name :	SC-C70
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX N40 Mode_CH03/06/09		

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
1.59	1.4421	21.79	151.0080	0.04334613	1	Complies
1.59	1.4421	22.55	179.8871	0.05163574	1	Complies
1.59	1.4421	22.48	177.0109	0.05081014	1	Complies

Note: the calculated distance is 20 cm.