



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

## **FCC ID: BOU-CSS2133B**

**Project No. : 1301C056**  
**Equipment : Soundbar Speaker (Soundbar Home Cinema Speaker)**  
**Model : CSS2133B/F7**  
**Applicant : Philips Consumer Lifestyle**  
**Address : 1600 Summer Street Stamford Connecticut United States 06905**

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

***Neutron Engineering Inc.***

***No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.***

***TEL : (0769) 8318-3000 FAX : (0769) 8319-6000***



## Neutron Engineering Inc.

### 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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	-0.51

### TEST RESULTS

EUT:	Soundbar Speaker (Soundbar Home Cinema Speaker)	Model Name :	CSS2133B/F7
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00/ CH39 /CH78 -1Mbps		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
-0.51	0.8892	0.85	1.2162	0.000215	1	Complies
-0.51	0.8892	0.11	1.0257	0.000182	1	Complies
-0.51	0.8892	-0.51	0.8892	0.000157	1	Complies

EUT:	Soundbar Speaker (Soundbar Home Cinema Speaker)	Model Name :	CSS2133B/F7
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00/ CH39 /CH78 -3Mbps		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
-0.51	0.8892	-0.4	0.9120	0.000161	1	Complies
-0.51	0.8892	-0.85	0.8222	0.000146	1	Complies
-0.51	0.8892	-1.71	0.6745	0.000119	1	Complies