



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: ACJ-SH-ALL1C

Project No. : 1312C280
Equipment : NETWORK AUDIO CONNECTOR
Model : SC-ALL1C
Applicant : Panasonic Corporation of North America
Address : Two Riverfront Plaza, 9th Floor, Newark, New Jersey, United States

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

Neutron Engineering Inc.

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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

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	3.1
2	N/A	N/A	Internal	N/A	3.0

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R),

Operating Mode TX Mode	1TX	2TX
	802.11a	V (ANT 1 or ANT 2)
802.11n(20MHz)	-	V (ANT 1 + ANT 2)
802.11n(40MHz)	-	V (ANT 1 + ANT 2)



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TEST RESULTS

EUT:	NETWORK AUDIO CONNECTOR	Model Name	SH-ALL1C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX A Mode		

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
3.1	2.0417	21.71	148.2518	0.06024907	1	Complies
3.1	2.0417	21.62	145.2112	0.05901336	1	Complies
3.1	2.0417	21.51	141.5794	0.05753742	1	Complies

EUT:	NETWORK AUDIO CONNECTOR	Model Name	SH-ALL1C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage :	AC120V/60Hz		
Test Mode :	TX N20 Mode-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
3.1	2.0417	23.77	238.2319	0.09681672	1	Complies
3.1	2.0417	23.58	228.0342	0.09267239	1	Complies
3.1	2.0417	23.53	225.4239	0.09161158	1	Complies

EUT:	NETWORK AUDIO CONNECTOR	Model Name	SH-ALL1C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage :	AC120V/60Hz		
Test Mode :	TX N40 Mode-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
3.1	2.0417	23.42	219.7860	0.08932034	1	Complies
3.1	2.0417	23.36	216.7704	0.08809482	1	Complies

Note:the calculation distance is 20cm.