

RF EXPOSURE REPORT

FCC ID: ACJ-SU-GX70
IC:216A-SUGX70

The report concerns: Original Grant

Report Reference No.....: 22EFSS10067

Date Sample(s) Received.....: 2022-11-25

Date of Tested.....: From 2022-11-25 to 2022-12-28

Date of issue.....: 2022-12-28

Testing Laboratory: DongGuan ShuoXin Electronic Technology Co., Ltd.
Zone A, 1F, No. 6, XinGang Road YuanGang Street,
Address: XinAn District, ChangAn Town, DongGuan City,
GuangDong, China

Applicant's name: Panasonic Corporation of North America

Address: Two Riverfront Plaza, 9th Floor, Newark, New
Jersey,07102-5490,United States

Manufacturer.....: Panasonic Corporation

Equipment.....: Network Audio Amplifier

Trade Mark: Technics

Model: SU-GX70

Ratings: I/P: 120V/60Hz 63W

Test Engineer: 
Blue Qiu

Responsible Engineer : 
Smile Wang

Authorized Signatory: 
King Wang

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1TEST REPORT DECLARE

Applicant	Panasonic Corporation of North America
Address	Two Riverfront Plaza, 9th Floor, Newark, New Jersey,07102-5490,United States
Manufacturer	Panasonic Corporation
Equipment	Network Audio Amplifier
Model No.	SU-GX70
Trade Mark	Technics
Standard	FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091 & KDB 447498 D01 v07

We Declare:

The equipment described above is tested by DongGuan ShuoXin Electronic Technology Co., Ltd(ATT). and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and DongGuan ShuoXin Electronic Technology Co., Ltd.(ATT) is assumed of full responsibility for the accuracy and completeness of these tests.

ATT is not responsible for the sampling stage, so the results only apply to the sample as received.

ATT's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. ATT shall have no liability for any declarations, inferences or generalizations drawn by the client or others from ATT issued reports.

1.1 TEST FACILITY

Test Facility:

The Test site used by DongGuan ShuoXin Electronic Technology Co., Ltd. to collect test data is located on the Zone A, 1F, No. 6, XinGang Road YuanGang Street, XinAn District, ChangAn Town, DongGuan City, GuangDong, China

The test facility is recognized, certified, or accredited by the following organizations:

Item	Registration No.	Expiration Date
CNAS	L3098	2024-08-27
A2LA	4893.01	2024-06-30
Innovation, Science and Economic Development Canada (ISED)	11033A CAB identifier:CN0083	2024-06-30
Federal Communications Commission (FCC)	171688 Designation No.:CN1235	2024-06-30

2 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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	N/A	N/A	PCB	N/A	2.8	
2	N/A	N/A	PCB	N/A	2.8	

3 TEST RESULT

EUT:	Network Audio Amplifier	Model Name :	SU-GX70
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz 63W		

For FCC

2.4G WIFI

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
1.69	1.4757	24.31	269.7739	0.07924	1	Complies

5G Band UNII-1

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
2.8	1.9055	15.66	36.8129	0.01396	1	Complies

5G Band UNII-2A UNII-2C

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
2.8	1.9055	16.63	46.0257	0.01746	1	Complies

5G Band UNII-3

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
2.8	1.9055	16.06	40.3645	0.01531	1	Complies

BT

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
1.69	1.4757	9.047	8.0798	0.00237	1	Complies

LE

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
1.69	1.4757	8.586	7.2210	0.00212	1	Complies

For 2.4G+5G simultaneous transmission MPE:

$$0.00212+0.00237+0.01746+0.07924=0.10119$$

Note: the calculated distance is 20 cm.

END OF TEST REPORT