PANASONIC HOME APPLIANCE COMPANY of AMERICA. MICROWAVE TECHNICAL LABORATORY 5201 Tollview Drive, E- Zip E2J-16 Rolling Meadows, IL 60008 Direct Dial Line: (847) 637-4673

Fax: (847) 637-4677

PHAA

March 16, 2010

Federal Communications Commission **Equipment Authorization Branch** 7435 Oakland Mills Road Columbia, MD 21046

SUBJECT: FILING FOR CERTIFICATION GRANTEE CODE ACL.

We are sending application for models with FCC Identifier ACLAP9Q31. These Microwave Ovens are to be approved under the regulations for part 18.

In the submission you will find exhibits for measurements taken in both Radiated and Line Conducted modes. As permitted by FCC rules, these measurements were taken by a registered lab. The lab has submitted documents which are on file with the FCC. For a quick reference to all of the exhibits submitted, please reference the Application Index and Summary after this cover letter page.

If there are any questions pertaining to this application, please contact me.

Gerge a. Vazzuez George Vazquez

Engineer, Codes & Safety

Cc: S. Yamashita

FCC ID: ACLAP9Q31 APPLICATION INDEX AND SUMMARY

APPLICATION FOR CERTIFICATION

Model No.	Brand Name	FCC ID.
NN-SF550W	Panasonic	ACLAP9Q31
NN-SF550B	Panasonic	ACLAP9Q31
NN-SF550M	Panasonic	ACLAP9Q31

LIST OF EXHIBITS

EXHIBIT A: TECHNICAL REPORT

EXHIBIT B: PHOTOGRAPHS OF EQUIPTMENT

EXHIBIT C: TEST SETUP PHOTOS

EXHIBIT D: SCHEMATIC DIAGRAM

EXHIBIT E: USERS MANUAL

EXHIBIT F: SAMPLE/LOCATION of FCC ID. LABEL

EXHIBIT G: TEST REPORT SUMMARY

Radiated Emissions Line Conductance

EXHIBIT H: TEST REPORT

FCC ID: ACLAP9Q31

EXHIBIT A

TECHNICAL REPORT

1. DESCRIPTION OF MEASUREMENT FACILITY:

The description of the measurement facility is already on file with FCC. Please refer to the commission's registration number 382179.

2. USERS MANUAL

Reference: EXHIBIT E

3. APPLICANT:

PANASONIC HOME APPLIANCE COMPANY of AMERICA, MICROWAVE TECHNICAL LAB., E-Zip E2J-16 5201 Tollview Drive

Rolling Meadows, Illinois 60008

4. MANUFACTURER:

Panasonic Home Appliances Microwave Oven Shanghai Co. LTD., (PHAMOS) 898 Long Dong Road Pu Dong, Snanghai 201203 China

5. MEASUREMENT SITE:

FCC Registration Number 382179

Bay Area Compliance Laboratory Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China 518038

6. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: 120Vac, 60Hz, 9.8A

Nominal Operating Frequency: 2450 MHz

Maximum RF Energy Generated: 1000 W (IEC 705)

Magnetron Type: 2M236-M42

Feed Type and Location: Through the wave guide on the bottom of the oven.

Stirrer: Bottom Feed Stirrer

Cabinet Dimensions: (W) 529 x (H) 326 x (D) 430(mm)

Oven Cavity Dimensions: (W) 354 x (H) 230 x (D) 3338 (mm)

Door Viewing Area Dimensions: (W) 298 x (H) 147 (mm)

Door Seal Type: Slit Choke seal and capacitive seal method

EXHIBIT B

PHOTOGRAPHS OF EQUIPMENT

External Photos: Reference EXHIBIT B Internal Photos: Reference EXHIBIT B

FCC ID: ACLAP8S71 EXHIBIT G

TEST REPORT SUMMARY: Radiated Emissions

1. MODEL NUMBER: NN-SF550W

SERIAL NUMBER: PP5005

MAGNETRON TYPE NO.: 2M236-M42

2. MEASUREMENT DATE:

From: 01/29/2010 to end of testing: 02/08/2010

3. TEST REPORT: Reference EXHIBIT H

4. TEST SETUP PHOTOS: Reference EXHIBIT C

4. INVESTIGATED FREQUENCY RANGE: 30 MHz to 25 GHz

5. TEST DATA SUMMARY: Selected Peak Readings

Safety Check (Radiation Hazard Measurement) :< 0.71 mW/cm² @ 5cm.

Radiated Field Stren	gth	Polar (H/V)	Corrected Amplitude dBµV/m	Limit (dBµV/m)	Margin (dB)
Emission Sideband	2395.0 MHz	Н	51.55	70.60	19.05
Emission Sideband	2366.5 MHz	V	48.60	" "	22.00
Emission Sideband	2565.5 MHz	V	42.90	u u	27.70
Emission Sideband	2579.5 MHz	Н	40.47	u u	30.13
2 nd Harmonic	4900 MHz	Н	52.70	"	17.90
2 nd Harmonic	4900 MHz	V	50.50	"	20.10
3 rd Harmonic	7350 MHz	Н	51.30	"	19.30
3 rd Harmonic	7350 MHz	V	47.10	"	23.50
4 th Harmonic	9800 MHz	Н	48.50	"	22.10
4 th Harmonic	9800 MHz	V	47.00	"	23.60

Note: The emission level of 5th harmonic to 10th harmonic 20db lower than limit.

Minimum/Maximum Frequency Variation: 2464.4 to 2459.8 MHz

(96V ~ 150V/ 1000 ml water load)

Minimum/Maximum Frequency Variation: 2464.2 to 2460.6 MHz

(1000 ml - 200 ml water load)

Total Power Input to Oven: 1140 watts

Power Developed in Dummy Load: 911.4 watts

Supply Voltage: 120 Volts, 60Hz, 9.5A

FCC ID: ACLAP9Q31

EXHIBIT G

TEST REPORT Summary: Line Conductance

1. MODEL NUMBER: NN-SF550W

SERIAL NUMBER: PP5005

MAGNETRON TYPE NO.: 2M236-M42

2. MEASUREMENT DATE:

From: 01/29/2010 to end of testing: 02/08/2010

3. TEST REPORT: Reference EXHIBIT H

4. TEST SETUP PHOTOS: Reference EXHIBIT C

4. INVESTIGATED FREQUENCY RANGE: 150 kHz to 30 MHz

5. TEST DATA SUMMARY: Selected Peak Readings

Power Line Live Side

Frequency	QP Amplitude	QP Limit	QP Margin
MHz	dΒμV	dΒμV	dB
0.150	56.75	66.00	9.25
0.240	47.79	62.15	14.36
0.610	42.34	56.00	13.66
1.060	41.16	56.00	14.84
13.080	49.79	60.00	10.21
21.810	39.00	60.00	21.00
Frequency	AV Amplitude	AV Limit	AV Margin
Frequency MHz	AV Amplitude dBµV	AV Limit dΒμV	AV Margin dB
	•		_
MHz	dΒμV	dΒμV	dB
MHz 0.150	dBμV 45.28	dBμV 56.00	dB 10.72
0.150 0.240	dBμV 45.28 41.80	dBμV 56.00 52.15	dB 10.72 10.35
0.150 0.240 0.610	dBμV 45.28 41.80 32.64	dBμV 56.00 52.15 46.00	dB 10.72 10.35 13.36

FCC ID: ACLAP9Q31 EXHIBIT G

Power Line Neutral Side

Frequency MHz	QP Amplitude dΒμV	QP Limit dBμV	QP Margin dB
IVIITZ	υБμν	υБμν	иь
0.160	57.64	65.56	7.92
0.190	57.15	64.13	6.98
0.280	51.14	60.83	9.69
0.540	48.28	56.00	7.72
12.750	53.42	60.00	6.58
21.650	39.15	60.00	20.85
Frequency	AV Amplitude	AV Limit	AV Margin
Frequency MHz	AV Amplitude dBµV	AV Limit dΒμV	AV Margin dB
	•		
MHz	dΒμV	dΒμV	dB
MHz 0.160	dBμV 40.63	dBμV 55.56	dB 14.93
0.160 0.190	dBμV 40.63 42.10	dBμV 55.56 54.13	dB 14.93 12.03
0.160 0.190 0.280	dBμV 40.63 42.10 36.68	dBμV 55.56 54.13 50.83	dB 14.93 12.03 14.15