

PANASONIC HOME APPLIANCE COMPANY of AMERICA,
MICROWAVE TECHNICAL LABORATORY
1707 N. RANDALL ROAD, E- Zip E2J-16
ELGIN, IL 60123-7847
Direct Dial Line: (847) 468-4145
Fax: (847) 468-5963

PHAA

July 12, 2007

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 ACLAP8S71. 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.

Sincerely,

George Vazquez
Engineer, Codes & Safety

Cc: S. Yamashita

FCC ID: ACLAP8S71
APPLICATION INDEX AND SUMMARY

APPLICATION FOR CERTIFICATION

| Model No. | Brand Name | FCC ID. |
|------------------|-------------------|----------------|
| NN-CS597S | Panasonic | ACLAP8S71 |

LIST OF EXHIBITS

- EXHIBIT A: PHOTOGRAPHS OF EQUIPMENT
 - External Photos: Reference EXHIBIT A
 - Internal Photos: Reference EXHIBIT A
- EXHIBIT B: TEST SETUP PHOTOS
- EXHIBIT C: TECHNICAL REPORT
- 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: ACLAP8S71
EXHIBIT A

PHOTOGRAPHS OF EQUIPMENT

External Photos: Reference EXHIBIT A
Internal Photos: Reference EXHIBIT A

EXHIBIT C

TECHNICAL REPORT

1. DESCRIPTION OF MEASUREMENT FACILITY:

The description of the measurement facility is already on file with the FCC laboratory. 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
1707 N. Randall Road
Elgin, Illinois 60123-7847

4. MANUFACTURER:

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

5. MEASUREMENT SITE:

FCC Registration Number 382179
Bay Area Compliance Laboratory Corp.
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, 12.0A

Nominal Operating Frequency: 2450 MHz

Maximum RF Energy Generated: 1000 W (IEC 705)

Magnetron Type: 2M261-M32

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

Stirrer: Bottom Feed Stirrer

Cabinet Dimensions: (W) 523 x (H) 320 x (D) 497 (mm)

Oven Cavity Dimensions: (W) 354 x (H) 205 x (D) 343 (mm)

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

Door Seal Type: Slit Choke seal and capacitive seal method

FCC ID: ACLAP8S71
EXHIBIT G

TEST REPORT SUMMARY: Radiated Emissions

1. MODEL NUMBER: NN-CS597S

SERIAL NUMBER: 0704119

MAGNETRON TYPE NO.: 2M261-M32

2. MEASUREMENT DATE:

From: 5/09/2007 to end of testing: 5/16/2007

3. TEST REPORT: Reference EXHIBIT H

4. TEST SETUP PHOTOS: Reference EXHIBIT B

4. INVESTIGATED FREQUENCY RANGE: 30 MHz to 24.5 GHz

5. TEST DATA SUMMARY: Selected Peak Readings

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

| Radiated Field Strength | | Corrected Amplitude dBµV/m | Limit (dBµV/m) | Margin (dB) |
|--------------------------|-----------|-------------------------------|-------------------|----------------|
| Fundamental | 2450 MHz | 126.01 | N/A | N/A |
| Emission Sideband | 2400 MHz | 68.59 | 70.7 | 2.11 |
| Emission Sideband | 2500 MHz | 67.86 | “ “ | 2.84 |
| 2 nd Harmonic | 4900 MHz | 47.48 | “ “ | 23.22 |
| 3 rd Harmonic | 7350 MHz | 49.50 | “ “ | 21.20 |
| 4 th Harmonic | 9800 MHz | 49.72 | “ “ | 20.98 |
| 5 th Harmonic | 12250 MHz | 52.77 | “ “ | 17.93 |
| Spurious | 1215 MHz | 29.75 | “ “ | 40.95 |
| Spurious | 4188 MHz | 37.46 | “ “ | 33.24 |
| Spurious | 4353 MHz | 37.05 | “ “ | 33.65 |

Note: The emission level of 6th harmonic to 10th harmonic 20db lower than limit.

Maximum Frequency Variation: 2433.4 to 2441.6 MHz
 (96V ~ 150V/ 1000 ml water load)

Maximum Frequency Variation: 2440.4 to 2485.6 MHz
 (1000 ml – 200 ml water load)

Total Power Input to Oven: 1624.8 watts

Power Developed in Dummy Load: 934.5 watts

Supply Voltage: 120 Volts, 60Hz, 13.54A

FCC ID: ACLAP8S71
EXHIBIT G

TEST REPORT Summary: Line Conductance

1. MODEL NUMBER: NN-CS597S

SERIAL NUMBER: 0704119

MAGNETRON TYPE NO.: 2M261-M32

2. MEASUREMENT DATE:

From: 5/09/2007 to end of testing: 5/16/2007

3. TEST REPORT: Reference EXHIBIT H

4. TEST SETUP PHOTOS: Reference EXHIBIT B

4. INVESTIGATED FREQUENCY RANGE: 150 kHz to 30 MHz

5. TEST DATA SUMMARY: Selected Peak Readings

Power Line Live Side

| Frequency MHz | QP Amplitude dB μ V | QP Limit dB μ V | QP Margin dB |
|------------------|----------------------------|------------------------|-----------------|
| 0.170 | 57.00 | 64.96 | 7.96 |
| 0.230 | 55.80 | 62.45 | 6.65 |
| 0.820 | 49.30 | 56.00 | 6.70 |
| 0.960 | 49.20 | 56.00 | 6.80 |
| 11.840 | 40.00 | 60.00 | 20.00 |
| 17.390 | 39.30 | 60.00 | 20.70 |

| Frequency MHz | AV Amplitude dB μ V | AV Limit dB μ V | AV Margin dB |
|------------------|----------------------------|------------------------|-----------------|
| 0.170 | 43.60 | 54.96 | 11.36 |
| 0.230 | 44.30 | 52.45 | 8.15 |
| 0.820 | 36.70 | 46.00 | 9.30 |
| 0.960 | 39.40 | 46.00 | 6.60 |
| 11.840 | 30.10 | 50.00 | 19.90 |
| 17.390 | 32.40 | 50.00 | 17.60 |

FCC ID: ACLAP8S71
 EXHIBIT G

Power Line Neutral Side

| Frequency MHz | QP Amplitude dB μ V | QP Limit dB μ V | QP Margin dB |
|------------------|----------------------------|------------------------|-----------------|
| 0.220 | 57.50 | 62.80 | 5.32 |
| 0.300 | 53.60 | 60.24 | 6.64 |
| 0.620 | 49.80 | 56.00 | 6.20 |
| 0.930 | 50.10 | 56.00 | 5.90 |
| 1.000 | 48.40 | 56.00 | 7.60 |
| 17.660 | 43.70 | 60.00 | 16.30 |
| Frequency MHz | AV Amplitude dB μ V | AV Limit dB μ V | AV Margin dB |
| 0.220 | 45.50 | 52.82 | 7.32 |
| 0.300 | 41.20 | 50.24 | 9.04 |
| 0.620 | 38.20 | 46.00 | 7.80 |
| 0.930 | 38.50 | 46.00 | 7.50 |
| 1.000 | 37.30 | 46.00 | 8.70 |
| 17.660 | 33.40 | 50.00 | 16.60 |