ACLAP5Y01

APPLICATION FOR CERTIFICATION

MODEL NO.	FCC ID
NN-T583SF	ACLAP5Y01
NN-T563SF	ACLAP5Y01
NN-S563BF	ACLAP5Y01
NN-S563MF	ACLAP5Y01
NN-S563WF	ACLAP5Y01
NN-S553BF	ACLAP5Y01
NN-S553MF	ACLAP5Y01
NN-S553WF	ACLAP5Y01
NN-S543BF	ACLAP5Y01
NN-S543MF	ACLAP5Y01
NN-S543WF	ACLAP5Y01
NN-S533BF	ACLAP5Y01
NN-S533MF	ACLAP5Y01
NN-S533WF	ACLAP5Y01
NN-S503BF	ACLAP5Y01
NN-S503MF	ACLAP5Y01
NN-S503WF	ACLAP5Y01

LIST OF EXHIBITS

EXHIBIT 1: TECHNICAL REPORT

EXHIBIT 2: PHOTOGRAPHS OF MAGNETRON AND COMPONENTS

EXHIBIT 3: SAMPLE AND LOCATION OF FCC ID LABEL

EXHIBIT 4: SCHEMATIC DIAGRAM

EXHIBIT 5: REPORT OF MEASUREMENTS

EXHIBIT 6: LIST OF MEASURING EQUIPMENT AND CALIBRATION

EXHIBIT 7: OPERATING INSTRUCTIONS

EXHIBIT 8: INSTALLATION INSTRUCTIONS

ACLAP5Y01 EXHIBIT 1-1A

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 reference 31010/EQU 4-3-0A.

2. INSTALLATION INSTRUCTIONS:

See EXHIBIT 7.

3. OPERATING INSTRUCTIONS:

See EXHIBIT 8.

4. APPLICANT:

MATSUSHITA TECHNOLOGY CORPORATION of AMERICA MICROWAVE TECHNICAL LAB., E-Zip E2J-16 1711 N. Randall Road Elgin, Illinois 60123-7847

5. MANUFACTURER:

SHANGHAI MATSUSHITA MICROWAVE OVEN CO. LTD. 868 Long Dong Road Pu Dong, Shanghai 201203 CHINA

6. MEASUREMENT SITE:

PANASONIC MAGNETRON LAB. PANASONIC INDUSTRIAL COMPANY 1707 N. Randall Road Elgin, II 60123-7847

ACLAP5Y01 EXHIBIT 1-1B

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 98856, Anechoic Chamber # 1.

2. INSTALLATION INSTRUCTIONS:

See EXHIBIT 7.

3. OPERATING INSTRUCTIONS:

See EXHIBIT 8.

4. APPLICANT:

MATSUSHITA TECHNOLOGY CORPORATION of AMERICA MICROWAVE TECHNICAL LAB., E-Zip E2J-16 1711 N. Randall Road Elgin, Illinois 60123-7847

5. MANUFACTURER:

SHANGHAI MATSUSHITA MICROWAVE OVEN CO. LTD. 868 Long Dong Road Pu Dong, Shanghai 201203 CHINA

6. MEASUREMENT SITE:

SAMSUNG ELECTRONICS CO. LTD. 416 Maetan 3 Dong, Paldal-Ku Suwon City, Kyungki Do, Korea, 442-742

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7. EQUIPMENT IDENTIFICATION:

Model No.: NN-T583SF
Brand Name: Panasonic
FCC ID: ACLAP5Y01

Model No.: NN-T563SF Brand Name: Panasonic FCC ID: ACLAP5Y01

Model No.: NN-S563BF, NN-S563MF, NN-S563WF

Brand Name: Panasonic FCC ID: ACLAP5Y01

Model No.: NN-S553BF, NN-S553MF, NN-S553WF

<u>Brand Name : Panasonic</u> <u>FCC ID : ACLAP5Y01</u>

Model No.: NN-S543BF, NN-S543MF, NN-S543WF

Brand Name : Panasonic FCC ID : ACLAP5Y01

Model No.: NN-S533BF, NN-S533MF, NN-S533WF

Brand Name : Panasonic FCC ID : ACLAP5Y01

Model No.: NN-S503BF, NN-S503MF, NN-S503WF

<u>Brand Name : Panasonic</u> <u>FCC ID : ACLAP5Y01</u>

ACLAP5Y01 EXHIBIT 1A

7. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: 120V, 60Hz, 12.7A

Nominal Operating Frequency: 2450 MHz

Maximum RF Energy Generated: 1350 W (IEC 705)

Magnetron Type: <u>2M261-M32</u>

Feed Type and Location: Through the wave guide

on the right sidewall of the oven.

Stirrer: <u>Turntable Type</u>

Cabinet Dimensions: (W) 518 x (H) 301 x (D) 404 (mm)

Oven Cavity Dimensions: (W) 375 x (H) 225 x (D) 386 (mm)

Door Viewing Area Dimensions: (W) 296 x (H) 153 (mm)

Door Seal Type: Slit Choke seal and capacitive seal method

8. DESCRIPTION OF DIFFERENCES

Model No.	NN-T583SF	NN-T563SF	NN-S563 BF/MF/WF	NN-S553 BF/MF/WF	NN-S543 BF/MF/WF	NN-S533 BF/MF/WF	NN-S503 BF/MF/WF
Input Power	120Vac, 12.7A						
Output Power	1350W	1300W	1350W	1350W	1300W	1300W	1300W
Magnetron	2M261-M32						
Alternate Magnetron	Samsung OM75PI(21)						
Brand	Panasonic						

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PHOTOGRAPHS OF EQUIPMENT

EXHIBIT 2-A: FRONT VIEW OF MODEL NN-S563BF

EXHIBIT 2-B: FRONT VIEW DOOR OPEN, MODEL NN-S563BF

EXHIBIT 2-C1: LEFT SIDE VIEW OF MODEL NN-S563BF

EXHIBIT 2-C2: LEFT SIDE VIEW OF MODEL NN-S563BF WITH ENCLOSURE REMOVED

EXHIBIT 2-D1: RIGHT SIDE VIEW OF MODEL NN-S563BF

EXHIBIT 2-D2: RIGHT SIDE VIEW OF MODEL NN-S563BF WITH ENCLOSURE REMOVED

EXHIBIT 2-E:REAR VIEW OF MODEL NN-\$563BF

EXHIBIT 2-F: TOP VIEW OF MODEL NN-S563BF

EXHIBIT 2-G: BOTTOM VIEW OF MODEL NN-S563BF

EXHIBIT 2-H: VIEW OF MAGNETRON TYPE 2M261-M32

EXHIBIT 2-I: VIEW OF DOOR CHOKE CONSTRUCTION ILLUSTRATING INTEGRAL CHOKE TYPE.

EXHIBIT 2-J: VIEW OF CONTROL CIRCUITRY

EXHIBIT 2-K: VIEW OF INVERTER POWER SUPPLY

EXHIBIT 2-L: VIEW OF MAGNETRON TYPE OM75P1(21)

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REPORT OF MEASUREMENTS

1. MODEL NO.: <u>NN-S563BF</u>
SERIAL NO. <u>PP-00001</u>
MAGNETRON TYPE NO.: <u>2M261-M32</u>

2. MEASUREMENT DATE: 9/12/02

3. LIST OF MEASURING EQUIPMENT AND CALIBRATION DATA: REFER TO ATTACHED EXHIBIT 6

4. INVESTIGATED FREQUENCY RANGE: 100Mhz to 4th Harmonic

5. DATA SUMMARY:

Safety Check: <0.5 MW/cm2

Radiated Field Strength: (uV/m@300m) Limit

Fundamental: 2459 MHz 310.74uv/m N/A 2nd. Harmonic: 4910 MHz 8.22uv/m 35.77 7359 MHz 3rd. Harmonic: 2.43uv/m 4th. Harmonic: 9868 MHz 3.02uv/m Spurious: 2338 Mhz 0.78uv/m Emission Sideband: 2400 MHz 0.47uv/m Emission Sideband: 2500 MHz 1.15uv/m

Greater than 4th. Harmonic not measurable

Maximum Frequency Variation: 2456 to 2461 MHz

(98V ~ 150V/ 1500 ml water load)

Maximum Frequency Variation: 2455 to 2459 MHz

(1500 ml - 300ml water load)

Total Power Input to Oven: <u>2040 watts</u>

Power Developed in Dummy Load: 1024 watts

Supply Voltage: <u>120 Volts, 60Hz, 17.0A</u>

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REPORT OF MEASUREMENTS

1. MODEL NO.: <u>NN-\$563BF</u>

SERIAL NO.

MAGNETRON TYPE NO.: OM75P1(21)

2. MEASUREMENT DATE: <u>2/14/03</u>

3. LIST OF MEASURING EQUIPMENT AND CALIBRATION DATA:
REFER TO ATTACHED EXHIBIT 6

- 4. INVESTIGATED FREQUENCY RANGE: 100Mhz to 4th Harmonic
- 5. DATA SUMMARY:

Safety Check: <0.5 MW/cm2

Radiated Field Strength: (uV/m @ 300m) Limit **Fundamental** 2455 MHz 262.63uv/m N/A 1020 MHz <u>1.40uv/m</u> 36.29 460<u>0 MHz</u> 2nd Harmonic: 6.03uv/m 2nd Harmonic: 4904 MHz 12.30uv/m 2nd Harmonic: 4926 MHz 10.23uv/m 3rd Harmonic: 6346 Mhz 18.62uv/m 5th Harmonic: 11645 Mhz 16.22uv/m Spurious: 2250 MHz 7.71uv/m Spurious: 2720 MHz 11.54uv/m

4th. Harmonic and greater than 5th Harmonic not measurable

Maximum Frequency Variation: 2452.7 to 2466.5 MHz

 $(96V \sim 150V / 1000 \text{ ml water load})$

Maximum Frequency Variation: 2450.3 to 2459.3 MHz

(1000 ml - 200ml water load)

Total Power Input to Oven: <u>1946 watts</u>

Power Developed in Dummy Load: 1053.7 watts

Supply Voltage: <u>120 Volts, 60Hz, 16.29A</u>