

ACLAP5Y01

APPLICATION FOR CERTIFICATION

<u>MODEL NO.</u>	<u>FCC ID</u>
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

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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, Il 60123-7847

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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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EXHIBIT 1-2

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
Brand Name : Panasonic
FCC ID : ACLAP5Y01

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
Brand Name : Panasonic
FCC ID : ACLAP5Y01

7. EQUIPMENT SPECIFICATIONS:

Nominal Operating Frequency: 2450 MHz

Magnetron Type: 2M261-M32

Stirrer: Turntable Type

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

Door Seal Type: Slit Choke seal and capacitive seal method

[illegible]

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EXHIBIT 2

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-S563BF

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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EXHIBIT 5A

REPORT OF MEASUREMENTS

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

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 :	<u><0.5 MW/cm2</u>		
Radiated Field Strength:	(<u>uV/m @ 300m</u>)		Limit
Fundamental:	<u>2459 MHz</u>	<u>310.74uv/m</u>	N/A
2nd. Harmonic:	<u>4910 MHz</u>	<u>8.22uv/m</u>	35.77
3rd. Harmonic:	<u>7359 MHz</u>	<u>2.43uv/m</u>	"
4th. Harmonic:	<u>9868 MHz</u>	<u>3.02uv/m</u>	"
Spurious:	<u>2338 Mhz</u>	<u>0.78uv/m</u>	"
Emission Sideband:	<u>2400 MHz</u>	<u>0.47uv/m</u>	"
Emission Sideband:	<u>2500 MHz</u>	<u>1.15uv/m</u>	"

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: 2040 watts

Power Developed in Dummy Load: 1024 watts

Supply Voltage: 120 Volts, 60Hz, 17.0A

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EXHIBIT 5B

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-S563BF

SERIAL NO. _____

MAGNETRON TYPE NO.: OM75P1(21)

2. MEASUREMENT DATE: 2/14/03

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 :	<u><0.5 MW/cm2</u>		
Radiated Field Strength:	(uV/m @ 300m)		Limit
Fundamental	<u>2455 MHz</u>	<u>262.63uv/m</u>	N/A
	<u>1020 MHz</u>	<u>1.40uv/m</u>	36.29
2nd Harmonic:	<u>4600 MHz</u>	<u>6.03uv/m</u>	"
2nd Harmonic:	<u>4904 MHz</u>	<u>12.30uv/m</u>	"
2nd Harmonic:	<u>4926 MHz</u>	<u>10.23uv/m</u>	"
3 rd Harmonic:	<u>6346 Mhz</u>	<u>18.62uv/m</u>	"
5 th Harmonic:	<u>11645 Mhz</u>	<u>16.22uv/m</u>	"
Spurious:	<u>2250 MHz</u>	<u>7.71uv/m</u>	"
Spurious:	<u>2720 MHz</u>	<u>11.54uv/m</u>	"

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

Maximum Frequency Variation: 2452.7 to 2466.5 MHz
(96V ~ 150V/ 1000 ml water load)

Maximum Frequency Variation: 2450.3 to 2459.3 MHz
(1000 ml - 200ml water load)

Total Power Input to Oven: 1946 watts

Power Developed in Dummy Load: 1053.7 watts

Supply Voltage: 120 Volts, 60Hz, 16.29A