APPLICATION FOR CERTIFICATION

MODEL NO.	FCC ID
NN-L829BA	ACLAP4A41
NN-L829WA	ACLAP4A41

LIST OF EXHIBITS

EXHIBIT 1: TECHNICAL REPORT

EXHIBIT 2: PHOTOGRAPHS OF MAGNETRON AND COMPONENTS

EXHIBIT 3: SAMPLES 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

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EXHIBIT 1

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 MICROWAVE OVEN COMPANY
   9333 W. Grand Avenue
   Franklin Park, Illinois 60131

5. MANUFACTURER:
   MATSUSHITA HOME APPLIANCE CORPORATION OF AMERICA
   1355 Lebanon
   Danville, Kentucky 40423

6. MEASUREMENT SITE:
   PANASONIC MAGNETRON LAB.
   PANASONIC INDUSTRIAL COMPANY
   1707 N. Randle Road
   Elgin, Il 60123-7847

7. EQUIPMENT IDENTIFICATION:
   Model No. : NN-L829BA, NN-L829WA,
   Brand Name : Panasonic
   FCC ID : ACLAP4A41

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EXHIBIT 1A

7. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: 120V, 60Hz, 14.0A
Nominal Operating Frequency: 2450 MHz
Maximum RF Energy Generated: 1100 W (IEC 705)
Magnetron Type: 2M210-M1
Feed Type and Location: Through the wave guide on the right sidewall of the oven.
Stirrer: Turntable Type
Cabinet Dimensions: (W) 594 x (H) 333 x (D) 427 (mm)
Oven Cavity Dimensions: (W) 435 x (H) 280 x (D) 400 (mm)
Door Viewing Area Dimensions: (W) 356 x (H) 181 (mm)
Door Seal Type: Slit Choke seal and capacitive seal method

8. DESCRIPTION OF DIFFERENCES

Model No.	Basic Models NN-L829BA/WA
Input Power	120 Vac, 14.0A
Output Power	1100W (IEC705)
Magnetron	2M210-M1
Brand	Panasonic

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EXHIBIT 2

PHOTOGRAPHS OF EQUIPMENT

EXHIBIT 2-A: FRONT VIEW OF MODEL NN-L829BA

EXHIBIT 2-B: REAR VIEW OF MODEL NN-L829BA

EXHIBIT 2-C: FRONT VIEW OF MODEL NN-L829BA WITH THE DOOR OPENED

EXHIBIT 2-D: TOP VIEW OF MODEL NN-L829BA WITH ENCLOSURE REMOVED

EXHIBIT 2-E: RIGHT SIDE VIEW OF MODEL NN-L829BA WITH ENCLOSURE REMOVED

EXHIBIT 2-F: BOTTOM VIEW OF MODEL NN-L829BA

EXHIBIT 2-G: LEFT SIDE VIEW OF MODEL NN-L829BA WITH ENCLOSURE REMOVED

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

EXHIBIT 2-I: VIEW OF MAGNETRON TYPE 2M210-M1

ENGINEERING TEST REPORT

FEB 3, 1999

Report No. CALR-FCC-096

This is to certify that the MICROWAVE OVEN from which the following data has been derived properly complies with the requirements of " FCC Rules and Regulations Part 18 Subpart C " as of the date the measurements were made.

1. Manufacturer of Device : Matsushita Home Appliance Corporation of America

   1355 Lebanon Road.
   Danville, Kentucky 40423

2. Description of Device

a.	FCC ID.	:	ACLAP4A41
b.	Model No.	:	NN-L829BA
c.	Serial No.	:	PP00015
d.	Operating Frequency	:	2450 MHz
e.	Output RF Power	:	1100 W (BY IEC 705)
f.	Power Consumption	:	120 V. 60 Hz
g.	Magnetron Type	:	Matsushita 2M210
h.	Employed Mode	:	Turn Table
i.	Door Seal Type	:	Choke

3. Measurement Procedure Used : FCC/OST MP-5

4. Measurement Site

   Name : Panasonic Magnetron Lab.
   Panasonic Industrial Company

   Address : 1707 N. Randall Road
   Elgin, Illinois 60123-7847

   Description of this test facility has been filed with the FCC. (Feb. 26, 1987, File # 31010/EQU 4-3-0A)

5. Date of Measurement : FEB 3, 1999

6. Measurement Data : See Attached " Data Summary "

7. Test Equipment Used : See Exhibit 1

Tested By

M. Okazaki
Applications Manager of Magnetron
Panasonic Industrial Company

DATA SUMMARY

1. Safety Check : < 0.5 mW/cm2 @ 5cm

2. Radiated Field Strength uV/m @ 300m

	Frequency (MHz)	Field Strength (uV/m)	Permissible (uV/m)
Fundamental	2474	1128	-----
2nd Harmonic	4919	11.61	32.75
3rd Harmonic	7391	2.75	32.75
4th Harmonic	9890	2.16	32.75
Spurious	2521	1.29	32.75
Emission Side Band	2400	1.05	32.75
Emission Side Band	2500	0.36	32.75

3. Maximum frequency variation : 2469 MHz - 2471 MHz
(96V ~ 150V / 1500cc Load)

2452 MHz - 2473 MHz
(1500cc ~ 300cc / Load)

4. Total power input to oven : 1670 W

5. Power developed in dummy load : 858 W

6. Supply voltage : 120V , 15.4 A

ACLAP4A41
EXHIBIT 5A

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-L829BA
   SERIAL NO. PP-000015
   MAGNETRON TYPE NO.: 2M210-M1

2. MEASUREMENT DATE: 2/3/99

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:	2474 MHz	1128uv/m	N/A
2nd. Harmonic:	4919 MHz	11.61uv/m	32.75
3rd. Harmonic:	7391 MHz	2.75uv/m	"
4th. Harmonic:	9890 MHz	2.16uv/m	"
Spurious:	2521 Mhz	1.29uv/m	"
Emmission Sideband:	2400 MHz	1.05uv/m	"
Emmission Sideband:	2500 MHz	0.36uv/m	"
Greater than 4th. Harmonic	not measurable		

Maximum Frequency Variation: (1000 ml water load)	2469 to 2471 MHz
Maximum Frequency Variation: (1000 ml - 200ml water load)	2452 to 2473 MHz
Total Power Input to Oven:	1670 watts
Power Developed in Dummy Load:	858 watts
Supply Voltage:	120 Volts, 60Hz, 15.4A

Description of Instrumentation and calculation

(1) Measurement equipment

a. Field Strength Meter : Electro-Metrics Model EMC-50

Bandwidth Setting : 1 MHz

Detector Function : Linear Average Detection

b. Receiving Antenna : Electro-Metrics Model RGA-180

Frequency Range : 1 - 18 GHz

c. Microwave Survey Meter : Narda Model 8110B

(2) Test Condition

a. Antenna Height Variation : 1.0 - 1.5 m

b. Distance of Antenna to Test unit : 3.0 m

c. Test Unit Height : 1.0 m

(3) Calculation Formula

Field Strength at 3 m (dBuV/m)

= Receiver Reading + Antenna Factor + Cable Loss
(dBuV) (dB/m) (dB)

Field Strength at 300m (uV/m)

$$= K * 10^{\frac{\text{Field Strength at 3 m (dBuV/m)}}{20}}$$

K : Conversion Factor for 3 m to 300 m

Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Conv. Factor K
2400	29	0.7	0.0061
Fundamental	29.3	0.7	0.0062
2500	29.5	0.7	0.0063
4900	33.4	0.9	0.01
7350	36.5	1.2	0.01
9800	38.2	1.4	0.01

Example : 2nd Harmonics

Receiver Reading = 20 dB @ 3 m

$$\text{FIS @300 m} = 0.01 * 10^{\frac{20 + 33.4 + 0.9}{20}} = 5.19 \text{ (uV/m)}$$

Exhibit 1 Test Equipment List

Name / Model No.	S / No.	Manufacturer	Last Calibrated
Field Strength Meter Model EMC - 50	175	Electro Metrics	12 / 10 / 98
Microwave Survey Meter 8110B	20915	Narda	03 / 19 / 98
Ridged Guide Antenna RGA - 180	2455	Electro Metrics	08 / 20 / 88
Network Analyzer 8410B	1647A00704	Hewlett Packard	06 / 17 / 88
Reflection Unit 8743A	1330A01358	Hewlett Packard	06 / 17 / 88
Sweep Oscillator 8620C	1645A00827	Hewlett Packard	06 / 17 / 88
Frequency Meter 536A	1441A00695	Hewlett Packard	09 / 17 / 88
Power Meter 436A	1629A1172	Hewlett Packard	08 / 05 / 89
Spectrum Analyzer 8555A	1642A06830	Hewlett Packard	08 / 21 / 88

Fig. 1 Physical Description of Test Site

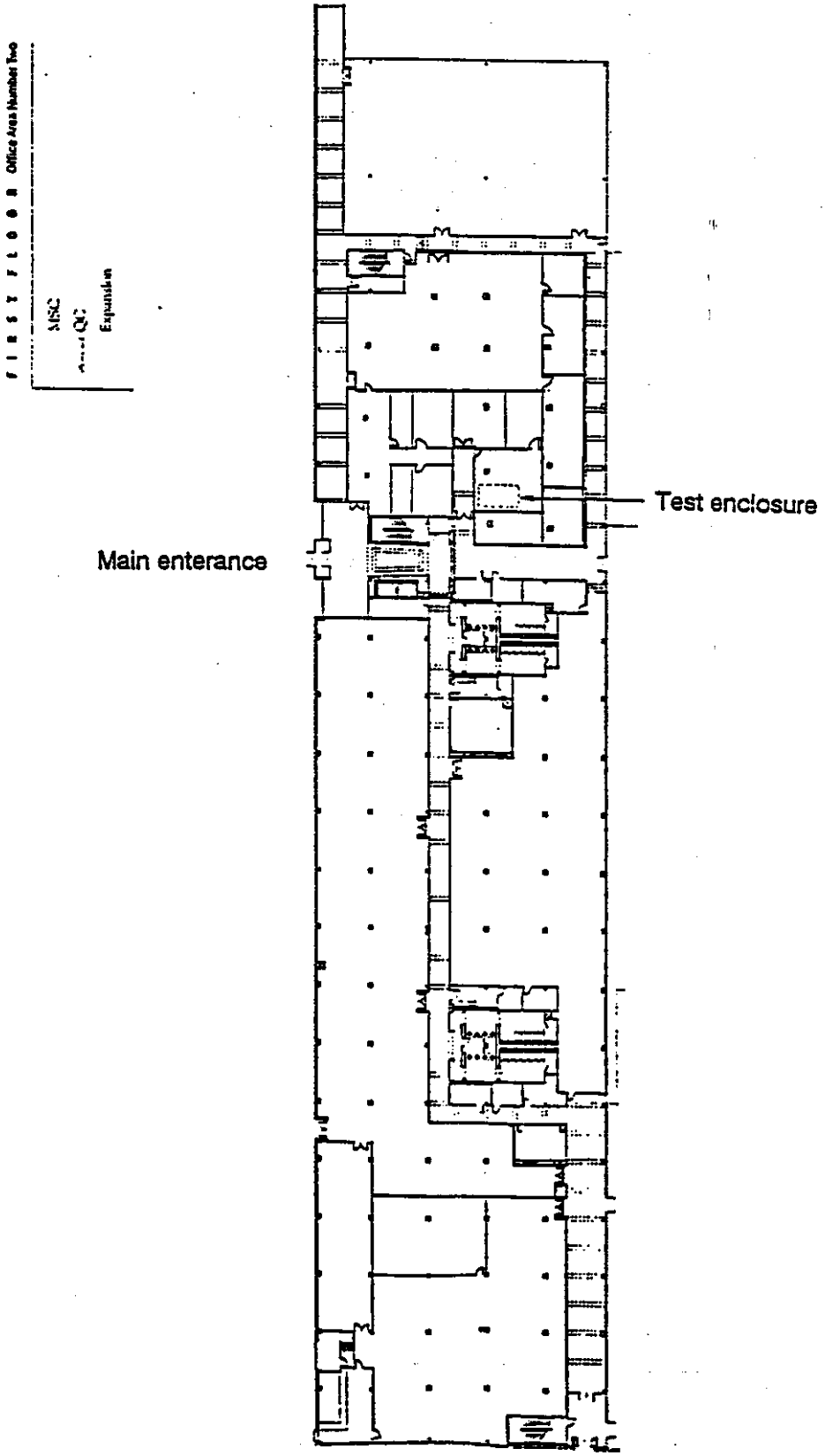

Fig. 2 Physical Dimensions of Test Site (Unit mm)