

7. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: 120V, 60Hz, 13.0A
 Nominal Operating Frequency: 2450 MHz
 Maximum RF Energy Generated: 1000 W (IEC 705)
 Magnetron Type: 2M189-M1
 Feed Type and Location: Through the wave guide on the right sidewall of the oven.
 Stirrer: Turntable Type
 Cabinet Dimensions: (W) 510 x (H) 306 x (D) 360 (mm)
 Oven Cavity Dimensions: (W) 354 x (H) 242 x (D) 335 (mm)
 Door Viewing Area Dimensions: (W) 273 x (H) 155 (mm)
 Door Seal Type: Slit Choke seal and capacitive seal method

8. DESCRIPTION OF DIFFERENCES

Model No.	NN-S538BA, NN-S538WA Basic Models	NN-S548BA, NN-S548WA Step-up Models	MQS1085E, MQS1085H, MQS1087E, MQS1087H Basic Models	MQS1095E, MQS1095H Step-up Models
Input Power	120 Vac ,12.5A	120 Vac ,12.5A	120 Vac ,12.5A	120 Vac ,12.5A
Output Power	1000W (IEC705)	1000W (IEC705)	1000W (IEC705)	1000W (IEC705)
Magnetron	2M189-M1	2M189-M1	2M189-M1	2M189-M1
Brand	Panasonic	Panasonic	Quasar	Quasar

PHOTOGRAPHS OF EQUIPMENT

EXHIBIT 2-A: FRONT VIEW OF MODEL MQS1095H

EXHIBIT 2-B: REAR VIEW OF MODEL MQS1095H

EXHIBIT 2-C: FRONT VIEW OF MODEL MQS1095H WITH THE DOOR OPENED

EXHIBIT 2-D: TOP VIEW OF MODEL MQS1095H WITH ENCLOSURE REMOVED

EXHIBIT 2-E: RIGHT SIDE VIEW OF MODEL MQS1095H WITH ENCLOSURE
REMOVED

EXHIBIT 2-F: BOTTOM VIEW OF MODEL MQS1095H

EXHIBIT 2-G: LEFT SIDE VIEW OF MODEL MQS1095H WITH ENCLOSURE
REMOVED

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

EXHIBIT 2-I: VIEW OF MAGNETRON TYPE 2M189-M1

REPORT OF MEASUREMENTS

1. MODEL NO.: MOS1095E
SERIAL NO. PP00001
MAGNETRON TYPE NO.: 2M189-M1
2. MEASUREMENT DATE: 10/1/98
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>2454 MHz</u>	<u>781uv/m</u>	N/A
2nd. Harmonic:	<u>4905 MHz</u>	<u>6.53uv/m</u>	31.4
3rd. Harmonic:	<u>7367 MHz</u>	<u>2.16uv/m</u>	"
4th. Harmonic:	<u>9830 MHz</u>	<u>2.40uv/m</u>	"
Spurious:	<u>2310 MHz</u>	<u>0.24uv/m</u>	"
Emmission Sideband:	<u>2400 MHz</u>	<u>0.23uv/m</u>	"
Emmission Sideband:	<u>2500 MHz</u>	<u>0.29uv/m</u>	"
Greater than 4th. Harmonic		not measurable	

Maximum Frequency Variation: 2456 to 2458 MHz
(96V-150Vac, 1000 ml water load)
Maximum Frequency Variation: 2455 to 2460 MHz
(1000 ml - 200ml water load)
Total Power Input to Oven: 1580 watts
Power Developed in Dummy Load: 787 watts
Supply Voltage: 120 Volts, 60Hz, 14.2A

ENGINEERING TEST REPORT

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OCT 1, 1998

Report No. CALR-FCC-091

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. : ACLAP8251
b. Model No. : MQS1095E
c. Serial No. : PP00001
d. Operating Frequency : 2450 MHz
e. Output RF Power : 1000 W (BY IEC 705)
f. Power Consumption : 120 V. 60 Hz
g. Magnetron Type : Matsushita 2M189
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

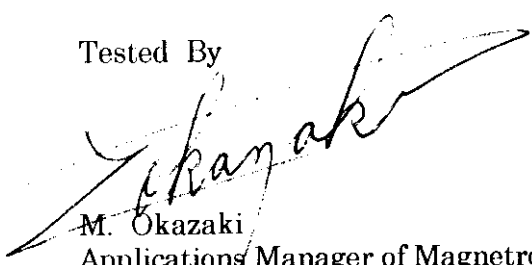
Description of this test facility has been filed with the FCC. (Feb. 26, 1987,
File # 31010/EQU 4-3-0A)

5. Date of Measurement : SEP 30, 1998

6. Measurement Data : See Attached " Data Summary "

7. Test Equipment Used : See Exhibit 1

Tested By

A handwritten signature in black ink, appearing to read 'M. Okazaki', is written over a faint, light-colored signature line.

M. Okazaki
Applications Manager of Magnetron
Panasonic Industrial Company

 DATA SUMMARY

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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	2454	781	-----
2nd Harmonic	4905	6.53	31.40
3rd Harmonic	7367	2.16	31.40
4th Harmonic	9830	2.40	31.40
Spurious	22310	0.24	31.40
Emission Side Band	2400	0.23	31.40
Emission Side Band	2500	0.29	31.40

3. Maximum frequency variation : 2456 MHz - 2458 MHz
(96V ~ 150V / 1000cc Load)

2454 MHz - 2461 MHz
(1000cc ~ 200cc / Load)

4. Total power input to oven : 1580 W

5. Power developed in dummy load : 787 W

6. Supply voltage : 120V , 14.2 A

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)

$$= \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Loss}$$

(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

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

@300 m

Exhibit 1 Test Equipment List

Name / Model No.	S / No.	Manufacturer	Last Calibrated
Field Strength Meter Model EMC - 50	175	Electro Metrics	11 / 14 / 97
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

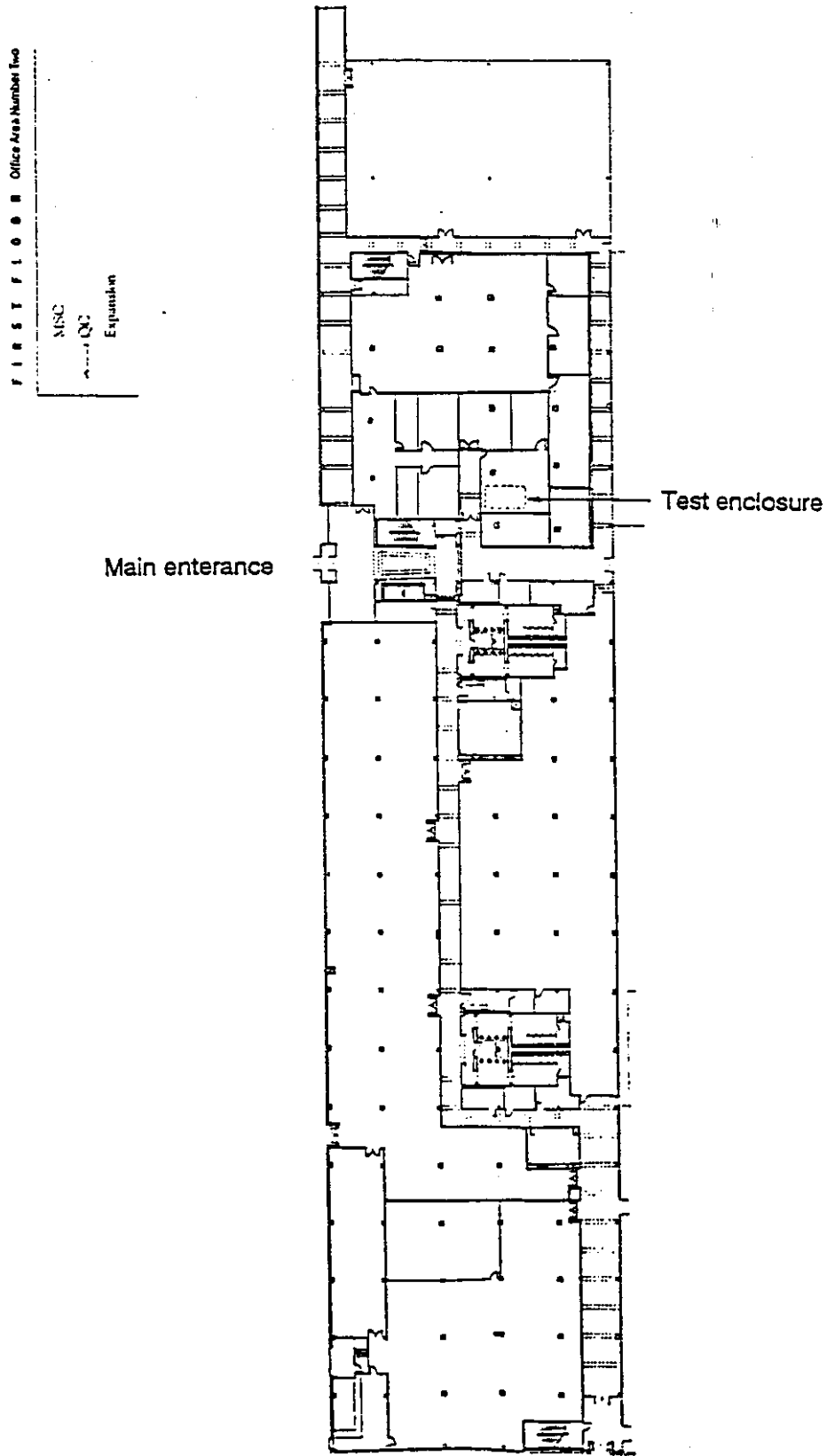


Fig. 2 Physical Dimensions of Test Site (Unit mm)

Exhibit 6D

ACLAP8251

