Issue Date: October 14, 2003

Page 1 of 24

EMC EMISSION - TEST REPORT

Name of Product : <u>Microwave Oven</u>

: <u>KL</u>80030447

Model/Type No. : NN-T694SF

FCC ID : ACLAP6K51

Applicant : Shanghai Matsushita Microwave Oven Co., Ltd.

Address : 898 Long Dong Rd.Pu Dong, Shanghai, 201203 China

Manufacturer : Shanghai Matsushita Microwave Oven Co.. Ltd.

Address : 898 Long Dong Rd.Pu Dong, Shanghai. 201203 China

Receive date of EUT : October 1, 2003

Final Judgement : Passed

JQA APPLICATION No.

TEST RESULTS IN THIS REPORT are obtained in use of equipment that is traceable to National Institute of Advanced Industrial Science and Technology (AIST) under METI Japan and Communications Research Lab. (CRL) under MPHPT Japan.

THE TEST RESULTS only responds to the test sample. This test report shall not be reproduced except in full.

Authorized by:

Takashi Yamanaka, Director JQA KITA-KANSAI Testing Center JQA Application No. : KL80030447 Model No. : NN-T694SF

: ACLAP6K51 FCC ID

Regulation : CFR 47 FCC Rules Part 18 Issue Date : October 14, 2003

Page 2 of 24

DIRECTORY

		Page
A) Documentation		
Directory		2
Test Regulation / General Information		3
Test Conditions		4 - 8
Configuration of EUT / Operation mode of the	ne EUT	9 - 10
EUT Modification / Responsible Party / Dev		<u> 11</u>
Test results / Measurement Uncertainty		12 - 13
Summary		14
Test System-Arrangement (Drawings)		<u> 15</u>
Preliminary Test and Test-setup (Drawing	ţs)	<u> 16 - 18</u>
Test-setup (Photographs) at worst case		19
B) Test data		
RF Power Output		20
ISM Frequency		21
Magnetic Field Radiated Emission	9 kHz - 30 MHz	22
Electromagnetic Field Radiated Emission	30 MHz - 1000 MHz	23
Electromagnetic Field Radiated Emission	1 GHz - 26 GHz	24

JQA Application No.: KL80030447 Regulation: CFR 47 FCC Rules Part 18

Model No. : NN-T694SF Issue Date : October 14, 2003

FCC ID : ACLAP6K51

Page 3 of 24

TEST REGULATION

FCC Rules and Regulations Part 18 Subpart A, B and C (October 1, 2002)

- Miscellaneous equipment
 - Medical diathermy
 - ISM Frequency Device
 - Non-ISM Frequency Device

O - Industrial heaters and RF stabilized arc welder

O - Induction cooking ranges

× The applied conducted emission limits(Sec.18.307) are not applied to the EUT at request of the applicant.

Test procedure:

The test was performed according to the procedures in FCC/OET MP-5 (1986).

GENERAL INFORMATION

Test facility:

1) Test Facility located at Kita-Kansai : 1st Open Site (3 m Site)

Test Facility located at Kameoka : 1st Open Site (3, 10 and 30 m, on common plane)

: 2nd Open Site (3 and 10 m, on common plane)

FCC filing No.: 31040/SIT 1300F2

2) KITA-KANSAI TESTING CENTER is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance established in Title 15. Part 285 Code of Federal Regulations.

NVLAP Lab Code: 200191-0

3) Average Measurement Method FCC filing No.: 950523A 1300F2

Description of the Equipment Under Test (EUT):

1) Name : Microwave Oven
2) Model/Type No. : NN-T694SF
3) Product Type : Prototype

4) Category : ISM Frequency Device

5) EUT Authorization : ○ - Verification • - Certification ○ - D.o.C.

6) Highest frequency used/generated : 2450 MHz 7) Rated RF Power Output : 1300 W

9) Power Rating : AC 120V 60Hz 1\phi 3-pin plug

Definitions for symbols used in this test report:

 Black box indicates that the listed condition, standard or equipment is applicable for this Report.

• Blank box indicates that the listed condition, standard or equipment is not applicable for this Report.

JQA Application No.: KL80030447

Model No. FCC ID

: NN-T694SF : ACLAP6K51

Regulation : CFR 47 FCC Rules Part 18

Issue Date : October 14, 2003

Page 9 of 24

CONFIGURATION OF EUT

The Equipment Under Test (EUT) consists of:

Description	Applicant (Manufacturer)	Model No. (Serial No.)	FCC ID
Microwave Oven	Shanghai Matsushita Microwave Oven Co., Ltd.	NN-T694SF ()	ACLAP6K51
	(Shanghai Matsushita Microwave Oven Co., Ltd.)		

The measurement was carried out with the following equipment connected:

Description	Grantee/Distributor	Model No. (Serial No.)	FCC ID
None			

Type of Interference Cable(s) and the AC Power Cord used with the EUT:

	Description	Port	Shielded Cable	Shell Material	Ferrite Core	Cable Length
1	AC Power Cord (EUT) 16 3-pin Plug		NO		NO	1.0 m

JQA Application No. : KL80030447

Model No. FCC ID

: NN-T694SF

Regulation : CFR 47 FCC Rules Part 18

Issue Date : October 14, 2003 : ACLAP6K51

Page 10 of 24

Operation - mode of the EUT:

The EUT was operated during the measurement under following load condition according to Sec. 4.1 in FCC/OET MP-5 (1986).

- 1) RF Power Output Measurement 1500 ml of water, with the beaker located in the center of the removable turntable.
- 2) ISM Frequency Measurement 1500 ml of water, with the beaker located in the center of the removable turntable.
- 3) Radiated Emission Measurement (radiation on second and third harmonics) Two loads, one of 1050 ml and the other of 450 ml, of water are used. Each load is tested both with the beaker located in the center of the removable turntable and with it in the right front center.
- 4) Radiated Emission Measurement (all other radiation) 1050 ml of water, with the beaker located in the center of the removable turntable.

Test system:

The EUT is a microwave oven intended for the household use. There is not any interface ports on the EUT.

Special accessories:

None

Type of Magnetron:

Cat. No. OM-75PI(21) (manufactured by Samsung Electronics)

The used (generated) frequencies in the EUT:

: 2450 MHz Magnetron CPU : 8 MHz

JQA Application No. : KL80030447

Model No. FCC ID : NN-T694SF : ACLAP6K51 Regulation : CFR 47 FCC Rules Part 18

Issue Date : October 14, 2003

Page 11 of 24

EUT Modification

- the modification(s) will be impleme	ented in all production models of this equipment.
Applicant : N/A	_ Date : N/A
Typed Name : N/A	Position: N/A
— Responsible Party of Test Item(Pro	Responsible Party
Responsible party :	ducti
Contact Person :	Signatory
Γ	Deviation from Standard
	cribed in page 3.
No deviations from the standard desc	

JQA Application No.: KL80030447

Model No. FCC ID

: NN-T694SF : ACLAP6K51

Regulation : CFR 47 FCC Rules Part 18

Issue Date : October 14, 2003

Page 14 of 24

SUMMARY

GENERAL REMARKS:

The EUT was tested according to the requirements of FCC Rules and Regulations Part 18 Subpart A. B and C (October 1, 2002) under the test configuration, as shown in page 15.

The conclusion for the test items of which are required by the applied regulation is indicated under the final judgement.

FINAL JUDGEMENT:

The "as received" sample;

- - fulfill the test requirements of the regulation mentioned on page 3.
- - fulfill the test requirements of the regulation mentioned on page 3, but with certain qualifications.
- doesn't fulfill the test regulation mentioned on page 3.

Begin of testing October 7, 2003

End of testing October 10, 2003

Approved by:

Akio Hosoda Manager EMC Div.

JQA KITA-KANSAI Testing Center

A. Hosoda

Issued by:

Shigeru Kinoshita Deputy Manager

EMC Div.

JQA KITA-KANSAl Testing Center

S. Lino