Attachment #1

REPORT OF MEASUREMENTS (MICROWAVE OVEN TEST DATA)

FCC ID : AEZM314 MODEL : EM-V5400SWX DATE : March 15,2000

NOMINAL FREQUENCY : 2,450 M Hz. TESTED BY : H.HAYASHI

H. Hayashi

DESCRIPTION : (Unit Dimension : cm)

Cabinet Dimension : 55.0 by 45.6 by 31.7 Door Dimension : 43.9 by 27.9

Oven Cavity Dimension : 37.6 by 42.2 by 24.2 Door Viewing area : 33.1 by 17.9

Feed Type and Location : Waveguide, located right side Stirrer : Rotating tray (incl. Rotating tray)

Door seal Type : Choke Seal Magnetron Type : Sanyo, 2M-219H

Others : N/A

TEST EQUIPMENT USED :

1. Antenna (Horn Antenna)

| | Frequency Range | Correction Factor |
|---|---|---|
| AILTECH 91888-2 | 1.0 - 2.0 G Hz | 21.5 - 22 dB |
| AILTECH 91889-2 | 2.0 - 3.6 G Hz | 20.5 - 21 dB |
| AILTECH 94613-1 | 3.6 - 7.6 G Hz | 37 dB |
| AILTECH 91891-2 | 7.3 - 10.0 G Hz | 39.8 dB |

Other Correction Factor

(a) Cable loss

| Frequency (M Hz) | Cable loss (dB) |
|---|---|
| 2,400 | 1.1 |
| 2,500 | 1.1 |
| 4,900 | 1.6 |
| 7,350 | 2.2 |
| 9,800 | 2.7 |

(b) Loss of Band Rejection Filter

| Frequency Range (G Hz) | Filter loss (dB) |
|---|---|
| 2.0 - 3.6 | 3.0 |

2. Field Strength Meter

AILTECH NM-67 (SER 0241-03088)

Last calibrated date : December 13, 1999

Setting : Bandwidth -------- 1 MHz

Function ---------- Field Intensity (average value detector)

3. When measureing sidebands close to the fundamental, band reject filter Model 6N45-2450/60 (SER FK837-1) was employed.

ATTACHMENT #1A

# REPORT OF MEASUREMENT (MICROWAVE OVEN TEST DATA SHEET B)

FCC ID : AEZM314 MODEL : EM-V5400SWX DATE : March 14,2000

Nominal Frequency : 2,450 MHz TESTED BY : H.HAYASHI

H. Hayashi

DATA SUMMERRY (FCC MEASUREMENT PROCEDURE MP-5)

CALCULATION : E<300m> = K*10^((A+B+C+D+E)/20)

SAFETY CHECK (at 5 cm) Load : 275 ml/center 0.11 mW/sq.cm

FUNDAMENTAL Load : 1,000 ml/center 2,450 MHz.

LIMIT = 25*√(power/500) : 37.1 uV/m

* Note : Location of load for the oven provided with the rotating tray is : Contiguous with the shelf circumference.

## RADIATION FIELD STRENGTH (uV/m at 300 m)

| | Load (ml) | Location of Load | Emission Frequency (MHz) | Meter Reading (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Filter Loss (dB) | Calcu. Factor (dB) | The Value of K (E<300m>=K*E<3m>) | Max. Field Strength (uV/m at 300m) | Limit (uV/m at 300m) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2nd Harmonic | 300 | Center | 4,907 | 18.0 | 37.0 | 1.6 | — | 5 | 0.0100 | 12.0 | 37.1 |
| 2nd Harmonic | 300 | * Right/Front Corner | 4,905 | 12.0 | 37.0 | 1.6 | — | 5 | 0.0100 | 6.0 | 37.1 |
| 2nd Harmonic | 700 | Center | 4,931 | 13.0 | 37.0 | 1.6 | — | 5 | 0.0100 | 6.8 | 37.1 |
| 2nd Harmonic | 700 | * Right/Front Corner | 4,931 | 12.0 | 37.0 | 1.6 | — | 5 | 0.0100 | 6.0 | 37.1 |
| 3rd Harmonic | 300 | Center | 7,361 | 21.0 | 39.8 | 2.2 | — | 5 | 0.0100 | 25.1 | 37.1 |
| 3rd Harmonic | 300 | * Right/Front Corner | 8,457 | 11.0 | 39.8 | 2.2 | — | 5 | 0.0100 | 7.9 | 37.1 |
| 3rd Harmonic | 700 | Center | 7,412 | 18.0 | 39.8 | 2.2 | — | 5 | 0.0100 | 17.8 | 37.1 |
| 3rd Harmonic | 700 | * Right/Front Corner | 8,434 | 12.0 | 39.8 | 2.2 | — | 5 | 0.0100 | 8.9 | 37.1 |
| 4th Harmonic | 700 | Center | 9,887 | 13.0 | 39.8 | 2.7 | — | 5 | 0.0100 | 10.6 | 37.1 |
| Spurious | 700 | Center | 2,309 | 32.0 | 20.8 | 1.1 | 3 | 5 | 0.0059 | 7.3 | 37.1 |
| Emission Sideband 2,400 MHz | 700 | Center | 2,400 | 20.0 | 20.8 | 1.1 | 3 | 5 | 0.0061 | 1.9 | 37.1 |
| Emission Sideband 2,500 MHz | 700 | Center | 2,500 | 20.0 | 20.8 | 1.1 | 3 | 5 | 0.0064 | 2.0 | 37.1 |

Maximum Frequency Variation 1,000 ml load 2,463 to 2,464 M Hz.

Total Power Input to Oven 1,480 Watts

Power Development in dummy load (Thermal Method) 1,100 Watts (IEC705Test Procedure)

Supply Voltage AC 120 V 60 Hz

1830 MHz - 2745 MHz 2.6230 * 10^(-3) * frequency : GHz) -0.0002

2745 MHz - 3660 MHz 2.1858 * 10^(-3) * frequency : GHz) +0.0010

3660 MHz - 4575 MHz 1.0929 * 10^(-3) * frequency : GHz) +0.0050

4575 MHz and above 0.0100

FCC ID : AEZM314 MODEL : EM-V5400SWX DATE : March 15,2000

TESTED BY : H.HAYASHI

Note : In order to convert the measured field strength at 3meters to the field at 300 meters. comply with FCC/OST MP-5 Appendix C "4.6.1 Computations to determine compliance". A culculation factor of 5 dB. this figure is fixed by SANYO. is introduced bfor adjusting a tolerance in measurement.
A calculation factor of 5 dB should be added to "METER READING" as shown in SAMPLE CALCULATION below.

SAMPLE CALUCULATION

(1) 2nd Harmonic with 300 ml/Center load

Field Strength at 300 m = 0.0100 × $10^{(18.0 + 37 + 1.6 + 5) - 20}$
= 12.0 uV/m

(2) Emission sideband 2,400 M Hz.. 700 ml/Center load

Field Strength at 300 m = 0.0061 × $10^{(20.0 + 20.8 + 1.1 + 3 + 5) - 20}$
= 1.9 uV/m

Attachment #1C

REPORT OF MEASUREMENT (MICROWAVE OVEN TEST DATA)

- Measurement of Frequency VS Line Voltage Stability -

FCC ID : AEZM314 Model : EM-V5400SWX Date : March 15, 2000

Nominal Frequency : 2.450 MHz Tested by : H.HAYASHI

H. Hayashi

| Line Voltage Variation [Volt] | Frequency [GHz] | Deviation for ISM Frequency [MHz] | Limit [MHz] |
|---|---|---|---|
| 96 (- 20%) | 2.464 | +14 | ± 50 |
| 120 (± 0%) | 2.464 | +14 | ± 50 |
| 150 (+ 25%) | 2.463 | +13 | ± 50 |

[ Environment ]

Temperature : 20.0 °C

Humidity : 56.0 %

[ Sample Calculation ]

Frequency : 2.464 GHz

Deviation for ISM Frequencies Calculated as follows,

2.4640 - 2.4500 = +0.0140 [GHz] = +14.0 [MHz]

[ Summary of Test Results ]

Above data shows that the test device (do) / do not complies with the requirements.