

Date: 2002-08-23

TEST REPORT

Page 1 of 29

No.: HM107891

FCC PART 15 & PART 18 CERTIFICATION REPORT

FOR LOW POWER DEVICE

TEST REPORT No.: HM107891

Equipment Under Test [EUT]:

Microwave oven

Model Number:

62612

Applicant:

Whirlpool Microwave Products

Development Ltd.

FCC ID :

PR46261X

Date: 2002-08-23

TEST REPORT

Page 2 of 29

No.: HM107891

CONTENT:

| | | |
|-------------------|------------------------------------|-----------------|
| Cover | Page 1 of 29 | |
| Content | Page 2-3 of 29 | |
| Conclusion | Page 4 of 29 | |
| <u>1.0</u> | <u>General Details</u> | |
| 1.1 | Test Laboratory | Page 5 of 29 |
| 1.2 | Applicant Details | Page 5 of 29 |
| | Applicant | |
| | HKSTC Code Number for Applicant | |
| | Manufacturer | |
| 1.3 | Equipment Under Test [EUT] | Page 6 of 29 |
| | Description of EUT operation | |
| 1.4 | Date of Order | Page 6 of 29 |
| 1.5 | Submitted Sample | Page 6 of 29 |
| 1.6 | Test Duration | Page 6 of 29 |
| 1.7 | Country of Origin | Page 6 of 29 |
| 1.8 | Additional Information of EUT | Page 7 of 29 |
| <u>2.0</u> | <u>Technical Details</u> | |
| 2.1 | Investigations Requested | Page 8 of 29 |
| 2.2 | Test Standards and Results Summary | Page 8 of 29 |
| <u>3.0</u> | <u>Test Results</u> | |
| 3.1 | Emission | Page 9-24 of 29 |

Date: 2002-08-23

TEST REPORT

Page 3 of 29

No.: HM107891

Appendix A

List of Measurement Equipment

Page 25 of 29

Appendix B

Photographs

Page 26-29 of 29

Date: 2002-08-23

TEST REPORT

Page 4 of 29

No.: HM107891

CONCLUSION

The submitted product was deemed to have **COMPLIED** with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15 & Part 18. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Verify by

Patrick Wong
for Chief Executive

Date: 2002-08-23

TEST REPORT

Page 5 of 29

No.: HM107891

1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate
New Territories, Hong Kong

Telephone: 852 2666 1888
Fax: 852 2664 4353

1.2 Applicant Details **Applicant**

Whirlpool Microwave Products Development Ltd.
16/F., Paliburg Plaza, 68 Yee Wo Street,
Causeway Bay, Hong Kong

Telephone: 86 755 3433891
Fax: 86 755 3433906

HKSTC Code Number for Applicant

WHM001

Manufacturer

Shunde Whirlpool Electrical Appliances Co., Ltd.
No. 2 Gong Ye Road, Beijiao, Shunde, Guangdong, China

Telephone: 86 765 6656922
Fax: 86 765 6656931

No.: HM107891

**1.3 Equipment Under Test [EUT]
Description of Sample**

Product: Microwave Oven
Manufacturer: Shunde Whirlpool Electrical Appliances Co., Ltd.
Brand Name: Kenmore
Model Number: 62612
Input Voltage: 120Va.c. 15A 1800W 60Hz
Additional Model No./Brand Name: 62614/Kenmore, 62617/Kenmore,
62619/Kenmore, 6270x series/Sears

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Whirlpool Microwave Products Development Ltd. Microwave Oven.

1.4 Date of Order

2002-05-17

1.5 Submitted Sample(s):

2 Samples per model

1.6 Test Duration

2002-08-20

1.7 Country of Origin

China

Date: 2002-08-23

TEST REPORT

Page 7 of 29

No.: HM107891

1.8 Additional Information of EUT

| | Submitted | Not Available |
|------------------------------------|-------------------------------------|--------------------------|
| User Manual | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Part List | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Circuit Diagram | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Printed Circuit Board [PCB] Layout | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Block diagram | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| FCC ID Label | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

No.: HM107891

2.0 Technical Details**2.1 Investigations Requested**

Perform ElectroMagnetic Interference measurement in accordance with FCC Part 15 for FCC Certification.

2.2 Test Standards and Results Summary Tables

| EMISSION Results Summary | | | | | | |
|--|--------------------------|----------------|---------------------|-------------------------------------|--------------------------|--------------------------|
| Test Condition | Test Requirement | Test Method | Class / Severity | Test Result | | |
| | | | | Pass | Failed | N/A |
| Radiated Emission, 0.15MHz to 30MHz | FCC Part 15.109 | ANSI C63.4 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emission, 1000MHz to 18GHz | FCC Part 18 Subpart C | FCC / OST MP-5 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Input Power Measurement | FCC Part 18 Subpart C | FCC / OST MP-5 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Output Power Measurement | FCC Part 18 Subpart C | FCC / OST MP-5 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Measurement of Output Frequency | FCC Part 18 Subpart C | FCC / OST MP-5 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Output Frequency Stability | FCC Part 18 Subpart C | FCC / OST MP-5 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Conducted Emission | FCC Part 15.207 | ANSI C63.4 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Note: N/A - Not Applicable

3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

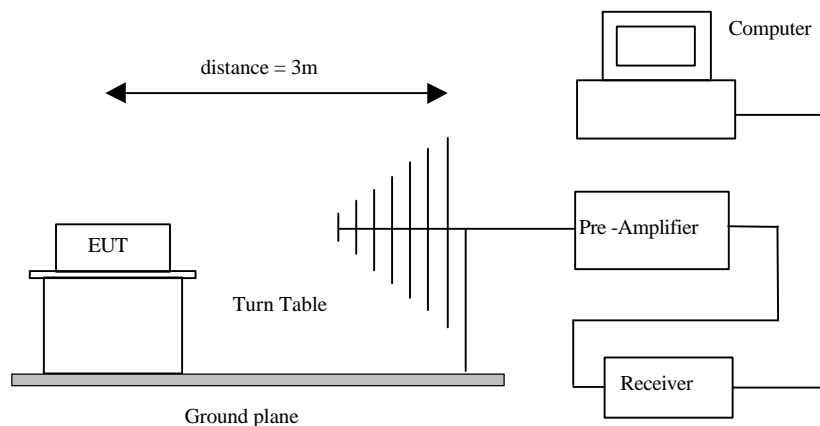
| | |
|--------------------|-----------------------|
| Test Requirement: | FCC Part 18 Subpart C |
| Test Method: | FCC / OST MP-5 |
| Test Date: | 2002-08-20 |
| Mode of Operation: | On mode (max. power) |

Test Method:

The sample was placed 0.8m above the ground plane on the OATS *. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigate all operating modes, rotated about all 3 axis (X, Y & Z) to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

*: OATS [Open Area Test Site] located at HKSTC with a metal ground plane on filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 90657.

Test Setup:



Date: 2002-08-23

TEST REPORT

Page 10 of 29

No.: HM107891

Radiated Emissions

Test Requirement: FCC Part 18 Subpart C
Test Method: FCC / OST MP-5
Test Date: 2002-08-20
Mode of Operation: On mode (max. power)

Results:

| Field Strength of Spurious Emissions Peak Value | | | | | |
|--|---------------------------------------|--------------------------------------|-----------------------------------|---------------------------|---------------------|
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Antenna Polarity |
| 4918.60 | < 1.0 | 60.92 | < 27.62 | 3,715.4 | Vertical |
| 7377.90 | < 1.0 | 67.12 | < 33.60 | 3,715.4 | Vertical |
| 9837.20 | < 1.0 | 67.84 | < 33.90 | 3,715.4 | Vertical |
| 12296.50 | < 1.0 | 67.42 | < 34.60 | 3,715.4 | Vertical |
| 14755.80 | < 1.0 | 71.44 | < 39.90 | 3,715.4 | Vertical |
| 17215.10 | < 1.0 | 67.44 | < 35.20 | 3,715.4 | Vertical |

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty = 30MHz to 300MHz ± 3.7 dB
300MHz to 1GHz +3.0dB / -2.7dB

Date: 2002-08-23

TEST REPORT

Page 11 of 29

No.: HM107891

Radiated Emissions (100MHz to 18GHz)

Test Requirement: FCC Part 15 (Share with FCC Part 18)
Test Method: FCC / OST MP-5
Test Date: 2002-08-20
Mode of Operation: On mode (Microwave)

Results: On Mode (Microwave)

| Radiated Emissions Quasi-Peak | | | | | |
|----------------------------------|---------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------|
| Emission Frequency MHz | Antenna Polarity | Level . @3m dB μ V/m | Limit . @3m dB μ V/m | Level @3m . @3m μ V/m | Limit . @3m μ V/m |
| 55.980 | Vertical | 18.02 | 40.0 | 8.0 | 100 |
| 512.400 | Vertical | 30.42 | 46.0 | 33.2 | 200 |
| 528.060 | Vertical | 21.93 | 46.0 | 12.5 | 200 |
| 798.660 | Vertical | 17.08 | 46.0 | 7.1 | 200 |
| 820.920 | Vertical | 16.85 | 46.0 | 7.0 | 200 |
| 1036.480 | Vertical | 28.87 | 54.0 | 27.8 | 500 |
| 90.720 | Horizontal | 16.98 | 43.5 | 7.1 | 150 |
| 171.960 | Horizontal | 17.08 | 43.5 | 7.1 | 150 |
| 440.520 | Horizontal | 23.40 | 46.0 | 14.8 | 200 |
| 538.380 | Horizontal | 33.18 | 46.0 | 45.6 | 200 |
| 836.280 | Horizontal | 26.33 | 46.0 | 20.7 | 200 |
| 1037.620 | Horizontal | 27.89 | 54.0 | 24.8 | 500 |

Remarks:

Calculated measurement uncertainty = ± 2.3 dB
-* - Emission greater than 30dB below limit line

Date: 2002-08-23

TEST REPORT

Page 12 of 29

No.: HM107891

Input Power Measurement

Test Requirement: FCC Part 18 Subpart C
Test Method: FCC / OST MP-5
Test Date: 2002-08-20
Mode of Operation: On mode (max. power)

Test Method:

Input power was measured using a Wattmeter. A 1000ml water load was located at the center of the oven. The oven was operated at full output power.

Results:

| Input Measurement | | | Manufacturer's Rating | |
|-------------------|-------------|-----------------|-----------------------|-----------------|
| Voltage (Vac) | Current (A) | Input Power (W) | Current (A) | Input Power (W) |
| 120 | 15.36 | 1740 | 15 | 1800 |

No.: HM107891

Output Power Measurement

| | |
|--------------------|-----------------------|
| Test Requirement: | FCC Part 18 Subpart C |
| Test Method: | FCC / OST MP-5 |
| Test Date: | 2002-08-20 |
| Mode of Operation: | On mode (max. power) |

Test Method:

The Output power was measured by the calorimetric method; using 1000ml load and evaluate the power output from the observed temperature rise of the load over a period of time.

The test method was based on clause 8 of IEC 705, Edition 3, Household Microwave Ovens – Methods for measuring performance.

Results:

°

| Initial Temp (°C) | Final Temp (°C) | Observed Period (s) | Output Power (W) |
|-------------------|-----------------|---------------------|------------------|
| 10 | 23.1 | 50 | 1096.99 |

Remark:

$$\text{Power (W)} = \frac{4.187 \text{ (joules / cal)} \times \text{Volume (ml)} \times \Delta T}{50}$$

$$\text{Power (W)} = \frac{4.187 \times 1000 \times 13.1}{50} = 1096.99 \text{ (W)}$$

No.: HM107891

Measurement of Output Frequency

| | |
|--------------------|-----------------------|
| Test Requirement: | FCC Part 18 Subpart C |
| Test Method: | FCC / OST MP-5 |
| Test Date: | 2002-08-20 |
| Mode of Operation: | On mode (max. power) |

Test Method:

The fundamental frequency was measured using a spectrum analyzer with precision frequency reference, with 1000ml load at the center of the oven.

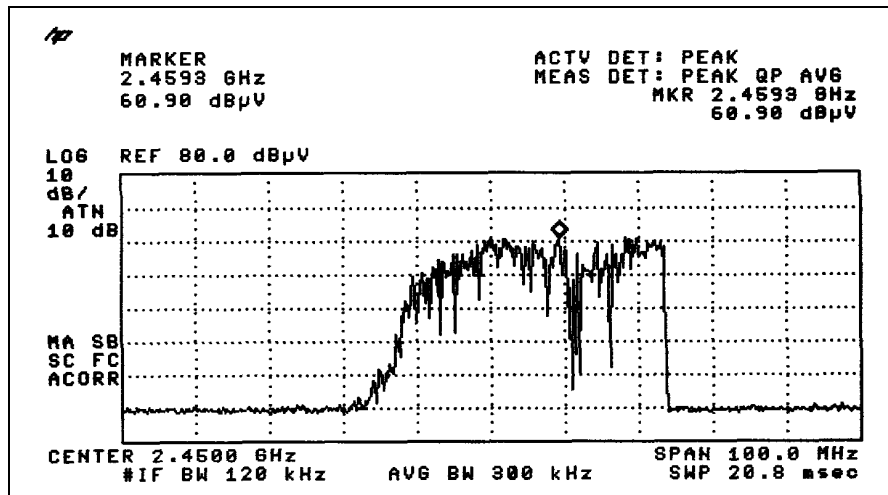
Results:

| Measured Frequency (MHz) | Manufacturer's Rated Frequency (MHz) |
|--------------------------|--------------------------------------|
| 2459.3 | 2450 |

Remark:

See graphical (A)

Graphical (A)



No.: HM107891

Output Frequency Stability

| | |
|--------------------|-----------------------|
| Test Requirement: | FCC Part 18 Subpart C |
| Test Method: | FCC / OST MP-5 |
| Test Date: | 2002-08-20 |
| Mode of Operation: | On mode (max. power) |

Test Method:

A spectrum analyzer was used to measure the frequency variation with time, with a 1000ml load located at the center of the oven with maximum power. The test was performed until the volume was reduced by evaporation to approximately 20% of the original quantity. During the test, the spectrum analyzer trace was put on maximum hold in order to obtain a bandwidth plot showing the sideband edges. Measurements were performed with the antenna in both horizontal and vertical polarities.

Results:

°

| Load | | Maximum sideband edges (GHz) | | Minimum sideband edges (GHz) | |
|------------------------|----------------------|---------------------------------|-------|---------------------------------|-------|
| Initial Volume (ml) | Final Volume (ml) | Measured | Limit | Measured | Limit |
| 1000 | 200 | 2.474 | 2.500 | 2.432 | 2.400 |

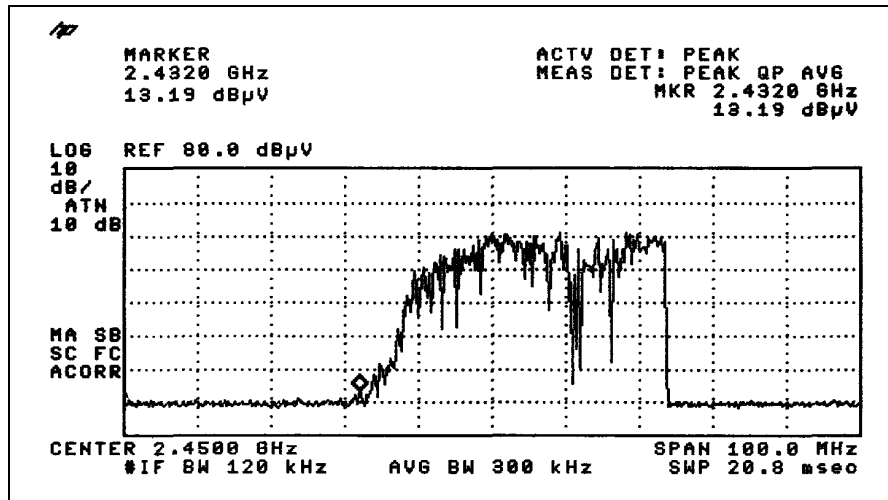
Remark:

See graphical (B)

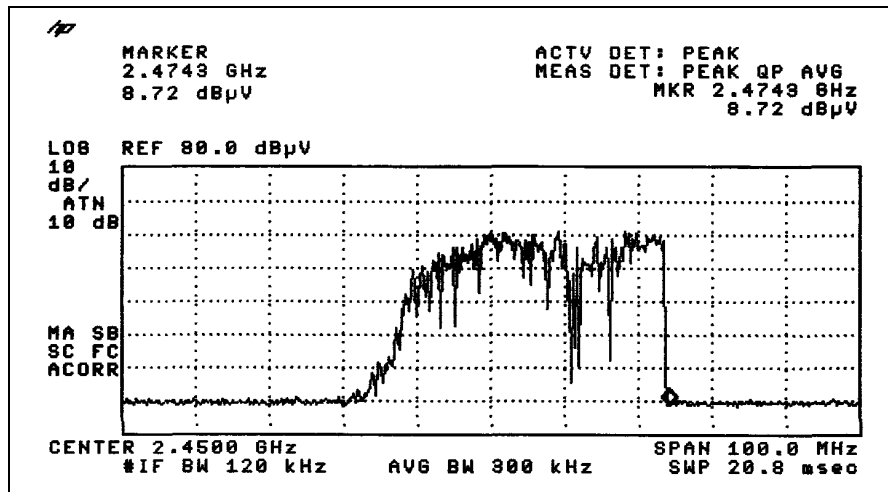
No.: HM107891

Graphical (B)

Min.



Max.



No.: HM107891

Frequency Variation With Line Voltage

| | |
|--------------------|-----------------------|
| Test Requirement: | FCC Part 18 Subpart C |
| Test Method: | FCC / OST MP-5 |
| Test Date: | 2002-08-20 |
| Mode of Operation: | On mode (max. power) |

Test Method:

A spectrum analyzer was used to measure the frequency variation for line voltage variation from 80% to 125% of normal voltage, with a 1000ml load located at the center of the oven with maximum power. During the test, the spectrum analyzer trace was put on, maximum hold in order to obtain a bandwidth plot showing the sideband edges. Measurements were performed with the antenna in both horizontal and vertical polarities.

Results:

°

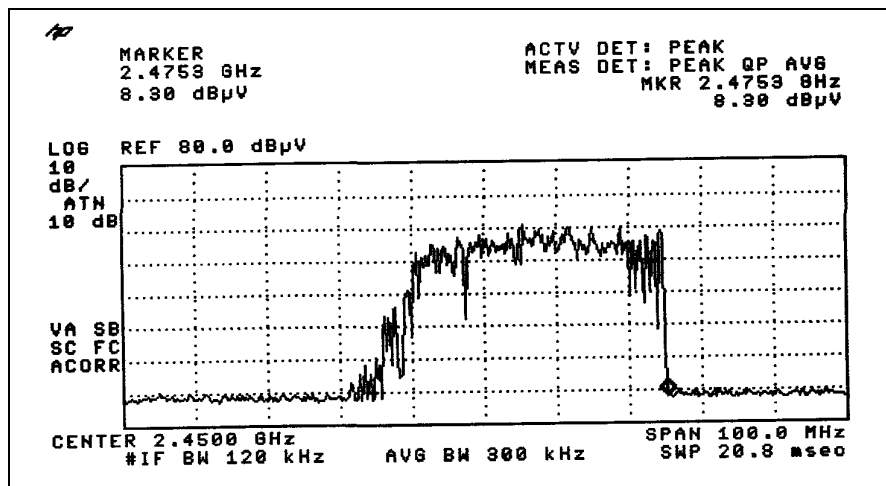
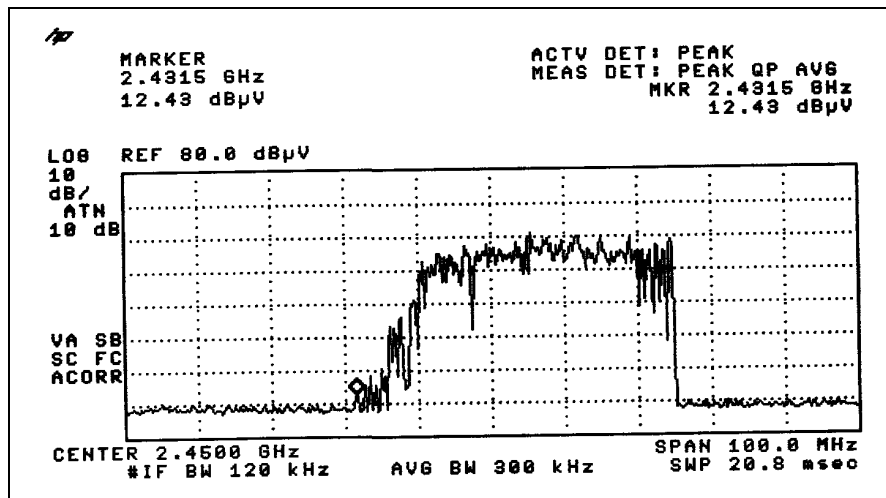
| Voltage (Vac) | Maximum sideband edges | | Voltage (Vac) | Minimum sideband edges | |
|------------------|------------------------|----------------|------------------|------------------------|----------------|
| | Measured (GHz) | Limit (GHz) | | Measured (GHz) | Limit (GHz) |
| 150 | 2.475 | 2.500 | 150 | 2.432 | 2.400 |

Remark:

See graphical (C)

No.: HM107891

Graphical (C)



No.: HM107891

Frequency Variation With Line Voltage

| | |
|--------------------|-----------------------|
| Test Requirement: | FCC Part 18 Subpart C |
| Test Method: | FCC / OST MP-5 |
| Test Date: | 2002-08-20 |
| Mode of Operation: | On mode (max. power) |

Test Method:

A spectrum analyzer was used to measure the frequency variation for line voltage variation from 80% to 125% of normal voltage, with a 1000ml load located at the center of the oven with maximum power. During the test, the spectrum analyzer trace was put on, maximum hold in order to obtain a bandwidth plot showing the sideband edges. Measurements were performed with the antenna in both horizontal and vertical polarities.

Results:

°

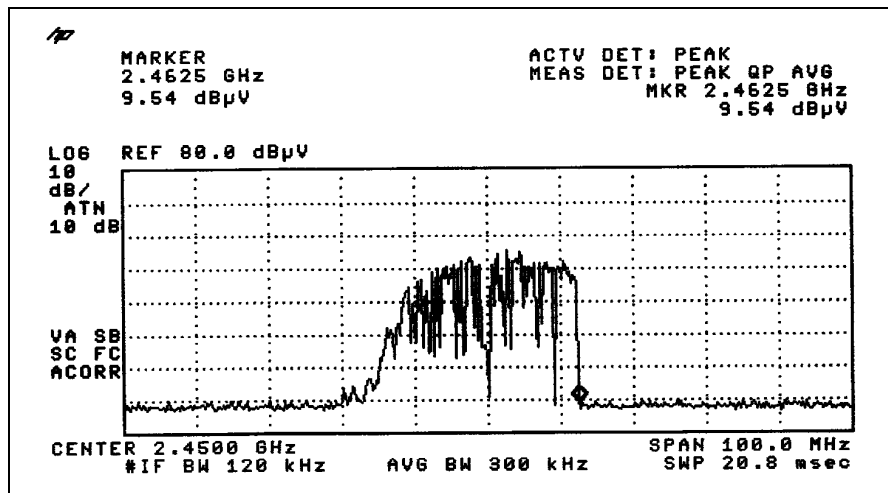
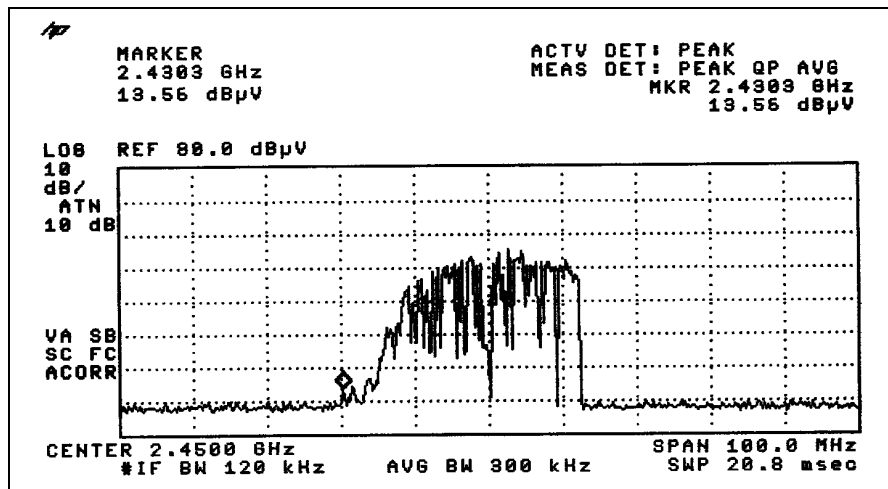
| Voltage (Vac) | Maximum sideband edges | | Voltage (Vac) | Minimum sideband edges | |
|------------------|------------------------|----------------|------------------|------------------------|----------------|
| | Measured (GHz) | Limit (GHz) | | Measured (GHz) | Limit (GHz) |
| 96 | 2.463 | 2.500 | 96 | 2.430 | 2.400 |

Remark:

See graphical (D)

No.: HM107891

Graphical (D)



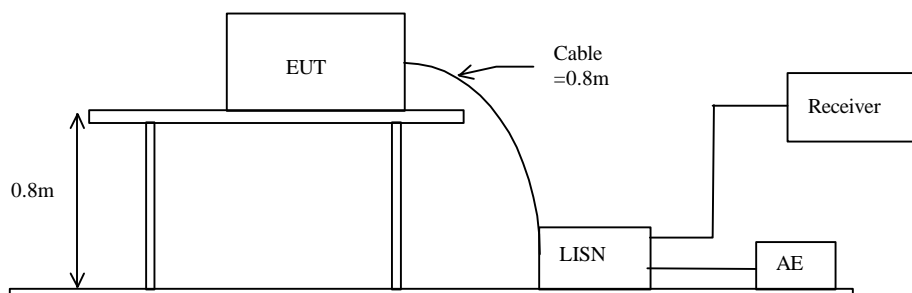
3.1.1 Conducted Emissions (0.15MHz to 30MHz)

| | |
|--------------------|----------------------|
| Test Requirement: | FCC 47CFR 15.207 |
| Test Method: | ANSI C63.4:2000 |
| Test Date: | 2002-08-20 |
| Mode of Operation: | On Mode (Max. Power) |

Test Method:

The test was performed in accordance with ANSI C63.4:2000, with the following: an initial measurement was performed in peak and average detection mode on the live line. Any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



No.: HM107891

Results: On Mode (Max. Power)

| Conductor Live or Neutral | Frequency MHz | Quasi-peak | | | |
|------------------------------|------------------|--------------------------|--------------------------|-------------|-------------|
| | | Level dB _μ | Limit dB _μ | Level μV | Limit μV |
| Live | 0.462 | 36.52 | 48.0 | 67.0 | 250 |
| Live | 0.537 | 43.47 | 48.0 | 149.1 | 250 |
| Live | 0.624 | 39.52 | 48.0 | 94.6 | 250 |
| Live | 0.735 | 33.81 | 48.0 | 49.0 | 250 |
| Live | 0.888 | 29.51 | 48.0 | 29.9 | 250 |
| Live | 1.155 | 31.18 | 48.0 | 36.2 | 250 |
| Live | 1.395 | 32.13 | 48.0 | 40.4 | 250 |
| Live | 1.420 | 37.59 | 48.0 | 75.8 | 250 |
| Live | 1.745 | 33.90 | 48.0 | 49.5 | 250 |
| Live | 2.255 | 33.27 | 48.0 | 46.1 | 250 |
| Live | 2.405 | 42.23 | 48.0 | 129.3 | 250 |
| Live | 2.785 | 43.04 | 48.0 | 141.9 | 250 |
| Live | 3.455 | 29.15 | 48.0 | 28.7 | 250 |
| Live | 4.135 | 25.74 | 48.0 | 19.4 | 250 |
| Live | 4.665 | 25.88 | 48.0 | 19.7 | 250 |
| Live | 5.520 | 28.75 | 48.0 | 27.4 | 250 |
| Live | 6.760 | 18.84 | 48.0 | 8.7 | 250 |
| Live | 7.895 | 16.69 | 48.0 | 6.8 | 250 |
| Live | 10.750 | 27.93 | 48.0 | 24.9 | 250 |
| Live | 10.825 | 27.87 | 48.0 | 24.7 | 250 |
| Live | 14.880 | 31.76 | 48.0 | 38.7 | 250 |
| Live | 15.355 | 28.48 | 48.0 | 26.5 | 250 |
| Live | 20.010 | 25.69 | 48.0 | 19.3 | 250 |
| Live | 24.710 | 43.29 | 48.0 | 146.0 | 250 |
| Live | 26.230 | 17.34 | 48.0 | 7.4 | 250 |

To be continues...

No.: HM107891

Results: On Mode (Max. Power)

| Conductor Live or Neutral | Frequency MHz | Quasi-peak | | | |
|------------------------------|------------------|--------------------------|--------------------------|-------------|-------------|
| | | Level dB _μ | Limit dB _μ | Level μV | Limit μV |
| Neutral | 0.480 | 38.50 | 48.0 | 84.1 | 250 |
| Neutral | 0.582 | 33.24 | 48.0 | 45.9 | 250 |
| Neutral | 0.711 | 42.91 | 48.0 | 139.8 | 250 |
| Neutral | 0.750 | 41.83 | 48.0 | 123.5 | 250 |
| Neutral | 0.858 | 39.63 | 48.0 | 95.8 | 250 |
| Neutral | 1.160 | 39.60 | 48.0 | 95.5 | 250 |
| Neutral | 1.195 | 33.51 | 48.0 | 47.4 | 250 |
| Neutral | 1.420 | 32.03 | 48.0 | 39.9 | 250 |
| Neutral | 1.940 | 32.08 | 48.0 | 40.2 | 250 |
| Neutral | 2.190 | 35.03 | 48.0 | 56.4 | 250 |
| Neutral | 2.385 | 35.76 | 48.0 | 61.4 | 250 |
| Neutral | 3.190 | 28.56 | 48.0 | 26.8 | 250 |
| Neutral | 3.485 | 32.20 | 48.0 | 40.7 | 250 |
| Neutral | 3.975 | 27.58 | 48.0 | 23.9 | 250 |
| Neutral | 4.835 | 34.04 | 48.0 | 50.4 | 250 |
| Neutral | 6.015 | 25.63 | 48.0 | 19.1 | 250 |
| Neutral | 7.190 | 28.07 | 48.0 | 25.3 | 250 |
| Neutral | 7.940 | 25.98 | 48.0 | 19.9 | 250 |
| Neutral | 10.785 | 28.98 | 48.0 | 28.1 | 250 |
| Neutral | 11.725 | 26.91 | 48.0 | 22.2 | 250 |
| Neutral | 14.935 | 37.53 | 48.0 | 75.2 | 250 |
| Neutral | 15.240 | 34.65 | 48.0 | 54.0 | 250 |
| Neutral | 20.435 | 24.71 | 48.0 | 17.2 | 250 |
| Neutral | 24.710 | 45.30 | 48.0 | 184.1 | 250 |
| Neutral | 27.520 | 18.35 | 48.0 | 8.3 | 250 |

Remarks:

Calculated measurement uncertainty = ± 2.3 dB

-* - Emission greater than 30dB below limit line

No.: HM107891

Conducted Emissions (0.45MHz to 30MHz)

Test Requirement: FCC 47CFR 15.207
 Test Method: ANSI C63.4:2000
 Test Date: 2002-08-20
 Mode of Operation: On Mode (Stand by mode)

Results: On Mode (Stand by mode)

| Conductor Live or Neutral | Frequency MHz | Quasi-peak | | | |
|------------------------------|------------------|--------------------------|--------------------------|-------------|-------------|
| | | Level dB _μ | Limit dB _μ | Level μV | Limit μV |
| Live | 0.450 | 35.85 | 48.0 | 62.0 | 250 |
| Live | 0.579 | 26.89 | 48.0 | 22.1 | 250 |
| Live | 0.726 | 13.78 | 48.0 | 4.9 | 250 |
| Live | 0.753 | 15.22 | 48.0 | 5.8 | 250 |
| Live | 0.897 | 12.54 | 48.0 | 4.2 | 250 |
| Live | 1.030 | 11.30 | 48.0 | 3.7 | 250 |
| Live | 4.000 | 11.07 | 48.0 | 3.6 | 250 |
| Live | 5.025 | 9.57 | 48.0 | 3.0 | 250 |
| Live | 5.900 | 9.99 | 48.0 | 3.2 | 250 |
| Live | 7.440 | 14.63 | 48.0 | 5.4 | 250 |
| Live | 8.005 | 16.85 | 48.0 | 7.0 | 250 |
| Live | 10.465 | 11.84 | 48.0 | 3.9 | 250 |
| Live | 11.415 | 10.41 | 48.0 | 3.3 | 250 |
| Live | 13.365 | 11.47 | 48.0 | 3.7 | 250 |
| Live | 16.000 | 25.98 | 48.0 | 19.9 | 250 |
| Live | 19.730 | 37.57 | 48.0 | 75.6 | 250 |
| Live | 24.710 | 37.57 | 48.0 | 75.6 | 250 |
| Live | 28.000 | 26.49 | 48.0 | 21.1 | 250 |

Remarks:

Calculated measurement uncertainty = ± 2.3 dB
 -* - Emission greater than 30dB below limit line

No.: HM107891

Appendix A**Test Equipment Audit****Radiated Emission**

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL. |
|---------|--|---|--------------------------------|--|-----------|
| EM007 | SPECTRUM ANALYZER | HEWLETT PACKARD | HP85660B | 3144A21192 | 07/09/01 |
| EM008 | SPECTRUM ANALYZER DISPLAY | HEWLETT PACKARD | HP85662A | 3144A20514 | 07/09/01 |
| EM009 | QUASI PEAK ADAPTOR | HEWLETT PACKARD | HP85650A | 3303A01702 | 07/09/01 |
| EM010 | RF PRESELECTOR | HEWLETT PACKARD | HP85685A | 3221A01410 | 07/09/01 |
| EM011 | ATTENUATOR/SWITCH | HEWLETT PACKARD | HP11713A | 2508A10595 | 07/09/01 |
| EM012 | PRE-AMPLIFIER | HEWLETT PACKARD | HP8449B | 3008A00262 | 07/09/01 |
| EM013 | CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE | HEWLETT PACKARD HEWLETT PACKARD HEWLETT PACKARD | HP9000 HP A1097C HP9133L | 6226A60314 3151J39517 2623A02468 | CM |
| EM020 | HORN ANTENNA | EMCO | 3115 | 4032 | 19/07/00 |
| EM022 | LOOP ANTENNA | EMCO | 6502 | 1189-2424 | 04/08/00 |
| EM072 | SIGNAL GENERATOR | HEWLETT PACKARD | 8640B | 1948A11892 | N/A |
| EM083 | HKSTC OPEN AREA TEST SITE | HKSTC | N/A | N/A | 14/02/02 |
| EM131 | PORTABLE SPECTRUM ANALYSER | HEWLETT PACKARD | 8595EM | 3710A00155 | 18/12/01 |
| EM145 | EMI TEST RECEIVER | R & S | ESCS 30 | 830245/021 | 22/07/02 |
| EM194 | BICONILOG ANTENNA | EMCO | 3142B | 1795 | 14/05/02 |
| EM196 | MULTI-DEVICE CONTROLLER | EMCO | 2090 | 1662 | N/A |
| EM195 | ANTENNA POSITIONING MAST | EMCO | 2075 | 2368 | N/A |

Conducted Emission

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL |
|---------|-------------------------------------|----------------------------------|------------|---------------------|----------|
| EM078 | VARIAC | SHANGHAI VOLTAGE | TDGC-3/0.5 | N/A | CM |
| EM081 | SMALL SCREENED ROOM | MIKO INST HK | N/A | N/A | 04/10/01 |
| EM002 | LISN | EMCO | 3825-2 | 9005-1657 | 22/08/01 |
| EM119 | LISN | R & S | ESH3-Z5 | 0831.5518.52 | 31/08/00 |
| EM127 | ISOLATION TRANSFORMER 220 TO 300 | WING SUN | N/A | N/A | CM |
| EM142 | PULSES LIMITER | R & S | ESH3Z2 | 357.8810.52 | 04/07/01 |
| EM181 | EMI TEST RECEIVER | R & S | ESIB7 | 100072 | 28/11/01 |
| EM154 | SHIELDING ROOM | SIEMENA MATSUSHITA COMPONENTS | N/A | 803-740-057- 99A | 02/01/02 |

Remarks:

CM Corrective Maintenance
N/A Not Applicable or Not Available
TBD To Be Determined

Appendix B

Photographs of EUT

Front View of the product



Rear View of the product



Inner Circuit of the product



Inner Circuit of the product



Photographs of EUT

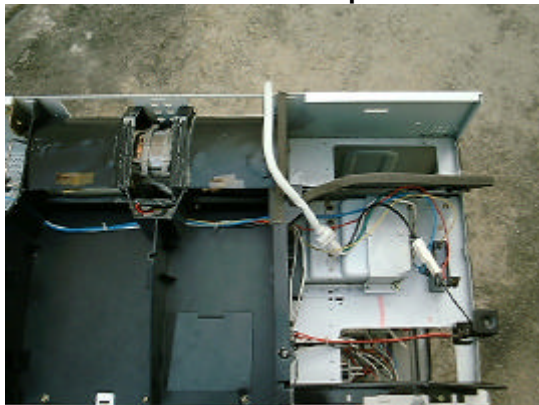
Inner Circuit of the product



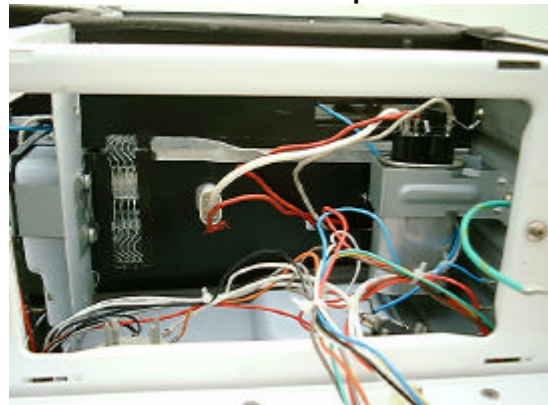
Inner Circuit of the product



Inner Circuit of the product

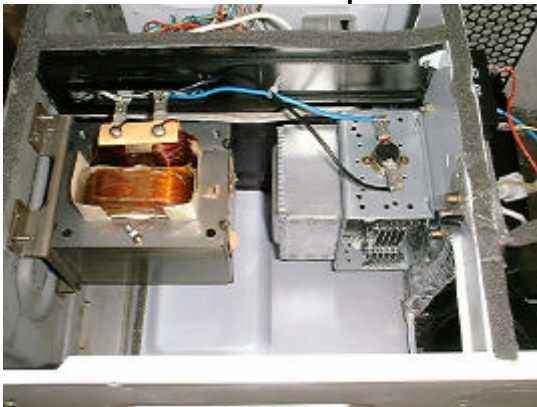


Inner Circuit of the product

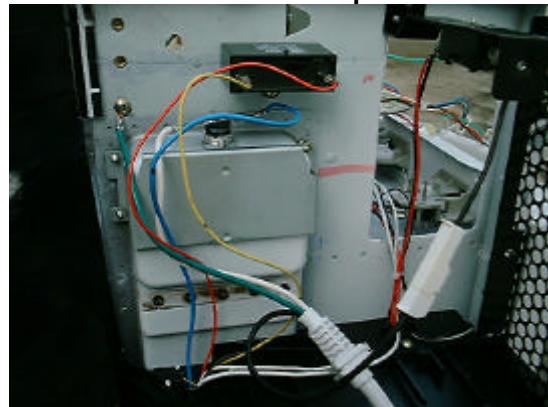


Photographs of EUT

Inner Circuit of the product



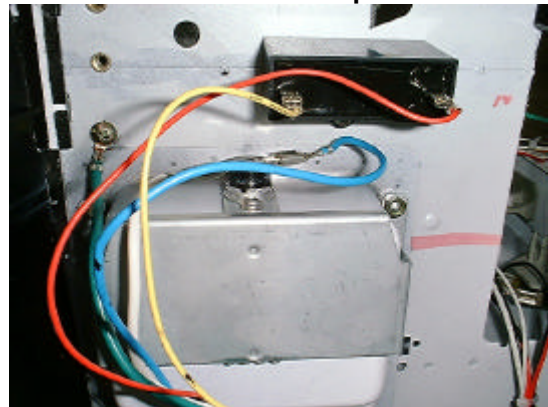
Inner Circuit of the product



Inner Circuit of the product

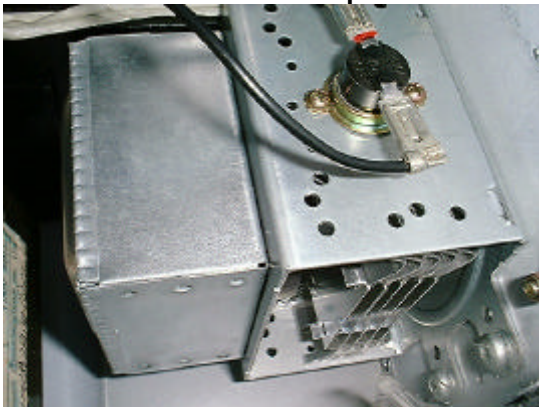


Inner Circuit of the product



Photographs of EUT

Inner Circuit of the product



Inner Circuit of the product



Measurement of Radiated Emission Test Set Up



End of Document