

EMI TEST REPORT

On Model Name: Microwave Oven (Over The Range)

Model Numbers: XM942KYY

Brand Name: Midea

FCC ID: VG8XM942KYY

Prepared for Midea Microwave and Electrical Appliances

Manufacturing Co.,Ltd

According to

FCC Part 18

Industrial, Scientific and Medical Equipment

FCC/OST MP-5(1986)

FCC methods of measurements of radio noise emission from industrial, scientific and medical equipment

Test Report#: FOS-0902-10144-FCC ID

Prepared by: May Wang Jawen Yin Reviewed by: Paul Chen QC Manager:

Test Report Released by: Feb.18, 2009

Date

List Attached Files

Exhibit Type	File Description	File Name
Test Report	Test Report	VG8XM942KYY _Test report.pdf
Operation Description	Technical Description	VG8XM942KYY_operation description.pdf
External Photos	External Photos	VG8XM942KYY_External Photos
Internal Photos	Internal Photos	VG8XM942KYY_Internal Photos
Block Diagram	Block Diagram	VG8XM942KYY_Block Diagram.pdf
Schematics	Circuit Diagram	VG8XM942KYY _Schematics.pdf
ID Label/Location	Label and Location	VG8XM942KYY _Label & Location.pdf
User Manual	User Manual	VG8XM942KYY _User Manual.pdf
Test setup photos	Test setup photos	VG8XM942KYY _Test Setup Photos

Test Location

Tests performed in a Certified ANSI Semi-Anechoic Chamber and Shielded Room.

Test Site Location: Shenzhen Academy of Metrology and Quality

inspection

Longzhu Road, Nanshan District, Shenzhen,

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FCC Registration Number :274801

CNAS Registration Number :L0579

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Opinions and Interpretations

This test report relates to the abovementioned equipment under test (EUT). Without the permission of ECMG Worldwide Certification Solution Inc., Test Lab this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark on this or similar products. The manufacturer has sole responsibility of continued compliance of the device.

Statement of Measurement Uncertainty

The data and results referenced in the document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities that can account for a nominal measurement error. Furthermore, component and process variability of devices similar to that tested may result in additional deviation.

Administrative Data

Test Sample : Microwave Oven (Over The Range)

Model Numbers : XM942KYY

Model Tested : EM942K##

Brand Name : Midea

Date Tested : 2009, Feb. 12 to 18

Applicant : Midea Microwave and Electrical Appliances

Manufacturing Co.,Ltd

Beijiao., Shunde, Foshan, Guangdong, China.

Telephone : 86-0757-23606480

Fax : 86-0757-23656995

Manufacturer : Midea Microwave and Electrical Appliances

Manufacturing Co.,Ltd

Beijiao., Shunde, Foshan, Guangdong, China.

EUT Description

Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd, model tested EM942K## (referred to the EUT in this report) is a Microwave Oven.

Power Supply	120VAC,60 Hz
Input Power	1, 500W
Cooking Power	900W
Frequency	2, 450 MHz
Outer Dimensions (WxHxD)	29.88" * 15.75" X 15.04"
Cavity Volume	1.5 cubic ft.
Net Weight	65.04 lbs

For more informations please refer to user's manual.

Type of Deriver

XM942KYY model designations:

X=E or A

M: only the microwave functions;

42: indicate cavity capacity is 42 liters;

F: indicate the design No.;

Y=0-9 or A-Z, indicate different appearance.

"E" is electrical control with touch pad; "A" is electrical control with keyboard.

Test Summary

The Electromagnetic Compatibility requirements on model tested EM820CDF for this test is stated below. All results listed in this report relate exclusively to this above-mentioned model as the Equipment Under Test. This report confers no approval or endorsement upon any other component, host or subsystem used in the test set-up.

Emission Tests						
Specifications	Description	Test Results	Test Point	Remark		
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1		
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	Input Power Measurement	Passed	AC Input Port	Attachment 2		
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	RF Output power Measurement	Passed	EUT	Attachment 3		
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	Operating Frequency Measurement	Passed	EUT	Attachment 4		
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	Conducted Emission	Passed	AC Input Port	Attachment 5		
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	Radiated Emission	Passed	Enclosure	Attachment 6		

Load for Microwave Ovens

For all measurements the energy developed by the oven was absorbed by a dummy load consisting of a quantity of tag water in a beaker. If the oven was provided with a shelf or other utensil support, this support was in its initial normal position. For ovens rated at 1000watts or less power output, the beaker contained quantities of water as listed in the following subparagraphs. For ovens rated at more than 1000watts output, each quantity was increased by 50% for each 500watts or fraction thereof in excess of 1000 watts. Additional beakers were used if necessary.

- --Load for power output measurement: 1000 milliliters of water in the beaker located in the center of the oven.
- --Load for frequency measurement: 1000 milliliters of water in the beaker located in the center of the oven.
- --Load for measurement of radiation on second and third harmonic: Two loads, one of 700 and the other of 300 milliliters, of water are used. Each load is tested both with the beaker located in the center of the oven and with it in the right front corner.
- --Load for all other measurements: 700 milliliters of water, with the beaker located in the center of the oven.

Equipment Modification

Any modifications installed previous to testing by Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd will be incorporated in each production model sold or leased in United States.

There were no modifications installed by ECMG Worldwide Certification Solution Inc., test personnel.

EUT Sample Photos



EUT-Front View



EUT-Rear View



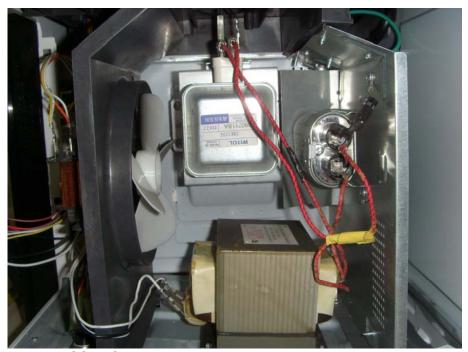
EUT-Side View



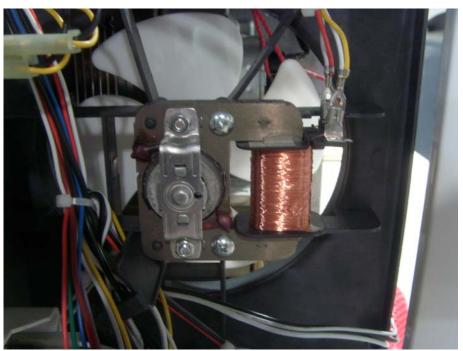
EUT-Uncovered View#1



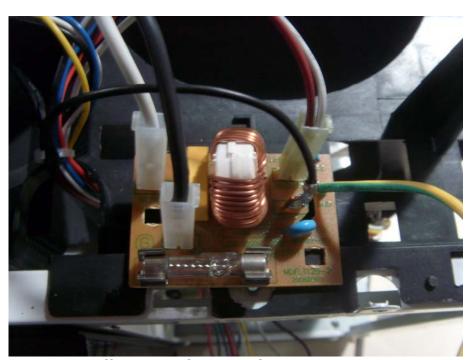
EUT-Uncovered View#2



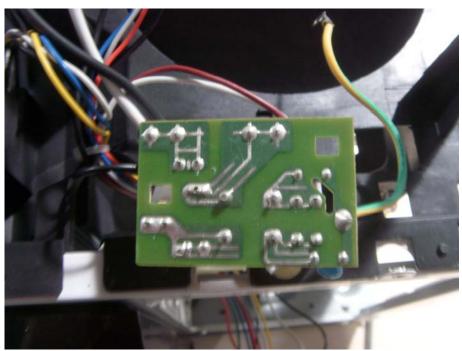
EUT-Inside View#1



EUT-Inside View#2



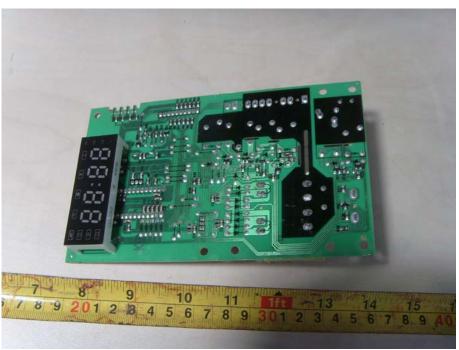
AC Power Filter Board Front View



AC Power Filter Board Rear View



Main Board Front View

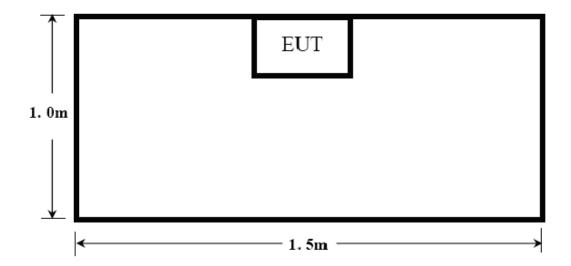


Main Board Rear View

Test System Details

EUT						
Model Numbers:	XM942KY	Ύ				
Model Tested:	EM942K#	##				
Description:	Microwav	re Oven (C	Over The Range)			
Manufacturer:	Manufacturer: Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd				ring Co.,Ltd	
	Support Equipment					
			N/A			
		Cabl	e Description			
Description	Description From To Length (Meters) Shielded (Y/N) Ferrite (Y/N)					
Power Cable	EUT	Plug	1.20	N	N	

Configuration of Tested System



ATTACHMENT 1 - RADIATION HAZARD TEST

CLIENT:	Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM942KYY	PRODUCT:	Microwave Oven (Over The Range)		
MODEL TESTED:	EM942K##	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22°C	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	May Wang	DATE OF TEST:	February 17, 2009		
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OST	MP-5:1986			
TEST PROCEDURE:	The EUT was set up according to the FCC MP-5 and FCC Part 18 for Radiation Hazard Measurement. The measurement was using a microwave leakage meter to measure the Radiation leakage in the as-received condition with the oven door closed. A 1000ml water load in a beaker was located in the center of the oven and the Microwave oven was set to maximum power. While the oven operating, the microwave meter will check the leakage and then record the maximum leakage.				
TESTED RANGE:	N/A				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	There was no microwave leakage exceeding a power level of 0.06 mW/cm2 observed at any point 5cm or more from the external surface of the oven. A maximum of 1.0 mW/cm2 is allowed in accordance with the applicable FCC				
	standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.				
	The test results relate only to the equipment under test provided by client.				
Changes or Modifications:	There were no modifications installed by ECMG Worldwide Certification Solution Inc., (China) test personnel.				
M. UNCERTAINTY:	0.0001 mW/cm2				

Test equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Field Monitor	HOLADAY	H1-1710	98370	04/02/2008	04/01/2009

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

SIGNED BY:

REVIEWED BY:

SENIOR ENGINEER

SENIOR ENGINEER



Radiation Hazard Test Set-up

ATTACHMENT 2 - INPUT POWER MEASUREMENT

CLIENT:	Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM942KYY	PRODUCT:	Microwave Oven (Over The Range)		
MODEL TESTED:	EM942K##	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22°C	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	May Wang	DATE OF TEST:	February 17, 2009		
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OST MP-5:1986				
TEST PROCEDURE:	The EUT was set up according to the FCC MP-5 & FCC Part 18 for Input power Measurement. The input power and current was measured using a power analyzer. A 1000ml water load in a beaker was located in the center of the oven and the Microwave oven was set to maximum power. While the oven is operating, use a voltmeter and an ampmeter to test the AC input voltage and current				
TESTED RANGE:	N/A				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	Based on the measured input power, the EUT was found to be operating within the intended specifications. The test results relate only to the equipment under test provided by client.				
Changes or Modifications:	There were no modifications installed by ECMG Worldwide Certification Solution Inc., (China) test personnel.				
M. UNCERTAINTY:	± 5.0W				

Test Data:

Input Voltage	Input Current	Measured Input Power	Rated Input Power
(Vac/Hz)	(amps)	(watts)	(watts)
120.2	13.17	1424	1500

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Power frequency test system	AINO	8707A	02040213	11/14/2008	11/13/2009

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

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SENIOR ENGINEER

SENIOR ENGINEER



Input Power Test Set-up

ATTACHMENT 3 - RF OUTPUT POWER MEASUREMENT

CLIENT:	Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM942KYY	PRODUCT:	Microwave Oven (Over The Range)		
MODEL TESTED:	EM942K##	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22°C	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	May Wang	DATE OF TEST:	February 17, 2009		
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OST	MP-5:1986			
TEST PROCEDURE:	The EUT was set up according to the FCC MP-5 and FCC Part 18C for RF output power Measurement. The Caloric Method was used to determine maximum RF output power. The initial temperature of the water load was measured. A 1000ml water load in a beaker was located in the center of the oven. The oven was operated at maximum output power for 120 seconds, the temperature of the water was re-measured. RF Output Power = (4.2joules/calorie)(volume in milliliters)(temperature rise) / (time in seconds) = 4.2 joules/calorie × 1000 × (Final Temp – Initial Temp) / 120				
TESTED RANGE:	N/A				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	RF Output Power = 773.5 watts				
	The test results relate only to the equipment under test provided by client.				
Changes or Modifications:	There were no modifications installed by ECMG Worldwide Certification Solution Inc., (China) test personnel.				
M. UNCERTAINTY:	± 0.3℃				

Test Data:

Initial Temp	Final Temp	Measured Times	Rated input Power
(°C)	(°C)	(s)	(W)
18.3	40.4	120	773.5

Note: RF Output Power (W) = $4.2 \times 1000 \times (Final\ Temp - Initial\ Temp) / 120$

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Stopwatch	Guangdong	SW323	SW01	02/14/2009	02/13/2010
Thermometer	Taiwan	TES-1310	020907011	03/05/2008	03/04/2009

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

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RF Output Power Test Set-up

ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

CLIENT:	Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM942KYY	PRODUCT:	Microwave Oven (Over The Range)		
MODEL TESTED:	EM942K##	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	May Wang	DATE OF TEST:	February 17, 2009		
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OST	MP-5:1986			
TEST PROCEDURE:	The EUT was set up according to the FCC MP-5 and FCC Part 18 for Operating Frequency Measurement. 1) The variation of frequency with time. The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000ml water load in a beaker was located in the center of the oven. Set a spectrum analyzer with antenna at 3 meters distance form the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to 20 percent of the original load. 2) The variation of frequency with Line Voltage. The operating frequency was measured using a spectrum analyzer. The EUT was operated/warmed by at least 10 minutes of use with a 1000ml water load at room temperature at the beginning of the test. Then the operating frequency was monitored as the input voltage was varied between 80 and 125 percent of the nominal rating.				
TESTED RANGE:	2450 ± 50MHz				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	Please refer to following pages for details of the variation in operating frequency with time & line voltage measurement. The test results relate only to the equipment under test provided by client.				
Changes or Modifications:	There were no modifications installed by ECMG Worldwide Certification Solution Inc., (China) test personnel.				
M. UNCERTAINTY:	Freq. ±10kHz				

Variation in Operating Frequency with Time:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2448.210	2457.014

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2445.320	2459.231
Note: Line voltage varied from 96Vac to 150Vac.	

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Bilog Antenna	Chase	CBL6112B	SB3440	01/25/2009	01/24/2010
Horn Antenna	R&S	HF906	SB3434	01/25/2009	01/24/2010
EMI Receiver	R&S	ES126	SB3436	01/25/2009	01/24/2010
3M Anechoic chamber	Albatross	9x6x6	SB3450	01/25/2009	01/24/2010

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

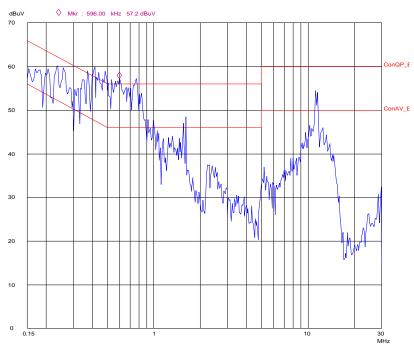
SIGNED BY:	May nang	REVIEWED BY:	Jamenym
	ENGINEER		SENIOR ENGINEER



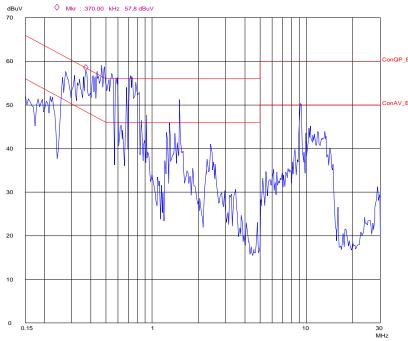
Operating Frequency Test Set-up

ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd	TEST STANDERD:	FCC Part 18				
MODEL NUMBERS:	XM942KYY	PRODUCT:	Microwave Oven (Over The Range)				
MODEL TESTED:	EM942K##	EUT DESIGNATION:	Home or Office				
TEMPERATURE:	22°C	HUMIDITY:	60%RH				
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord				
TESTED BY:	May Wang	DATE OF TEST:	February 12, 2009				
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OST	MP-5:1986					
TEST PROCEDURE:	The EUT was set up according to the guideline of ANSI C63.4: 2003 & FCC MP-5 for conducted emissions. The measurement was using a AMN on each line and an EMI receiver peak scan was made at the frequency measurement range. The six highest significant peaks were then marked, and these signals were then quasi-peaked and averaged. The frequency range investigated was from 150kHz to 30MHz.						
TESTED RANGE:	150kHz to 30MHz						
TEST VOLTAGE:	120VAC / 60Hz						
RESULTS:	According to the recorded data in following data table, the EUT complied with the FCC Part 18 conducted emission test, with the worst margin reading of: -4.1 dB at 0.470 MHz in the Neutral conductor model. The test results relate only to the equipment under test provided by client.						
Changes or Modifications:	There were no modifications installed by ECMG Worldwide Certification Solution Inc., (China) test personnel.						
M. UNCERTAINTY:	±2.5 dB		· · ·				



Line L Conducted Emission Graph



Line N Conducted Emission Graph

Test data:

Line L/N	Frequency (MHz)	Corrected QP Level (dBuV)	Limits QP (dBuV)	Margin QP (dB)	Corrected AVE Level (dBuV)	Limits AVE (dBuV)	Margin AV (dB)
L	0.414	50.2	57.6	-7.4	25.5	47.6	-22.1
L	0.768	46.6	56.0	-9.4	20.5	46.0	-25.5
L	11.213	45.9	60.0	-14.1	20.5	50.0	-29.5
L	0.596	49.5	56.0	-6.5	23.5	46.0	-22.5
N	0.470	52.4	56.5	-4.1	25.2	46.5	-21.3
N	0.724	47.2	56.0	-8.8	23.2	46.0	-22.8
N	1.505	<i>35.7</i>	56.0	-20.3	14.2	46.0	-31.8
N	0.370	49.7	58.5	-8.8	25.5	48.5	-23.0

Note: All readings are using a bandwidth of 9 kHz, with a 30 ms sweep time.

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI Receiver	R&S	ESCS30	SB2603	01/25/2009	01/24/2010
AMN	R&S	ESH2-Z5	SB3321	01/25/2009	01/24/2010

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

SIGNED BY:

REVIEWED BY:

SENIOR ENGINEER



Conducted Emission Test Set-up

ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

1	T.		Í		
CLIENT:	Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM942KYY	PRODUCT:	Microwave Oven (Over The Range)		
MODEL TESTED:	EM942K##	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	May Wang	DATE OF TEST:	February 12, 2009		
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OST	MP-5:1986			
TEST PROCEDURE:	The EUT was set up according to the guidelines of ANSI C63.4: 2003 & FCC MP-5 for radiated emissions. Microwave oven was placed on a 1m *1.5m nonconductive table. The top of the table is 1.0 m above the ground. The table is placed on a flush mounted metal turntable.				
	An EMI receiver peak scan was made at the frequency measurement range (pre-scan) in an Anechoic chamber. Signal discrimination was then performed and the significant peaks marked. All data was recorded in Quasi-peak detection mode from 30 MHz to 1GHz and average detector mode above 1GHz.				
	The following data lists the significant emission frequencies, measured levels, correction factors (including cable and antenna correction factors), and the corrected readings against the limits. Explanation of the Correction Factor are given as follows:				
	FS= RA + AF + CF - AG				
	Where: FS = Field Strength				
	RA = Receiver Amplitude				
	AF = Antenna Factor				
	CF = Cable Attenuation Factor	or			
	AG = Amplifier Gain				
TESTED RANGE:	30MHz to 24.5GHz				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	The EUT meets the requirements of test reference for Radiated Emissions. The test results relate only to the equipment under test provided by client.				
Changes or Modifications:	There were no modifications installed by ECMG Worldwide Certification Solution Inc., (China) test personnel.				
M. UNCERTAINTY:	± 3.2 dB				

Field strength limits for out-of-band emissions:

For RF output power <500W, Limit at 300m = 27.96dBuV/m
For RF output power>500W, Limit at 300m=20log[25*SQRT(Power/500)]dBuV/m

Test Data:

	30MHz - 1GHz						
Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dBµV/m]	Delta, QP [dB]	3 Meters Limits [dBµV/m]			
687.124	Н	27.4	42.5	69.9			
88.316	Н	37.9	32.0	69.9			
33.274	Н	41.6	28.3	69.9			
35.831	V	42.8	27.1	69.9			
450.887	V	33.1	36.8	69. 9			
687.124	V	31.6	38.3	69.9			

Note: All readings are quasi-peak unless stated otherwise, using a bandwidth of 120kHz, with a 30~ms sweep time. A video filter was not used.

1 <i>GHz</i> - 25 <i>GHz</i>					
Frequency [GHz]	Antenna Polarization [V/H]	Corrected Reading [dBµV/m]	Delta, AV [dB]	3 Meters Limits [dBµV/m]	
4914.028	н	20.1	49.8	69. 9	
7372.244	Н	24.4	45.5	69.9	
9834.823	Н	25.1	44.8	69.9	
4914.028	V	16.8	53.1	69. 9	
7372.244	V	26.4	43.5	69. 9	
9834.823	V	24.4	45.5	69. 9	

Note: All readings are average unless stated otherwise, using a bandwidth of 1MHz, with a 30 ms sweep time. A video filter was not used.

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Bilog Antenna	Chase	CBL6112B	SB3440	01/25/2009	01/24/2010
Horn Antenna	R&S	HF906	SB3434	01/25/2009	01/24/2010
EMI Receiver	R&S	ES126	SB3436	01/25/2009	01/24/2010
Band-pass Filter	Micro-Tronics	BRM50702	SIN-030	01/25/2009	01/24/2010
3M Anechoic chamber	Albatross	9x6x6	SB3450	01/25/2009	01/24/2010

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

SIGNED BY:	May wong	REVIEWED BY:	Janemym	
	ENGINEER		SENIOR ENGINEER	



Radiated Emission Test Set-up (30~1000MHz)



Radiated Emission Test Set-up(1~25GHz)