

EMI Test Report

On Model Name: Microwave oven (Counter-top)

Model Numbers: XM923HYY

Brand Name: Midea

FCC ID: VG8XM923HYY

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 #: PSZ-0708-0472-FCCID

Prepared by: Eddy Chen
Reviewed by: Ivan Wen
QC Manager: Paul Chen

Test Report Released by:

Paul J. de

2007, Aug 29

Paul Chen

Date

List Attached Files

Exhibit Type	File Description	File Name
Test Report	Test Report	XM923HYY _Test report.pdf
Operation Description	Technical Description	XM923HYY_operation description.pdf
External Photos	External Photos	XM923HYY_External Photos
Internal Photos	Internal Photos	XM923HYY_Internal Photos
Block Diagram	Block Diagram	XM923HYY_Block Diagram.pdf
Schematics	Circuit Diagram	XM923HYY _Schematics.pdf
ID Label/Location	Label and Location	XM923HYY _Label & Location.pdf
User Manual	User Manual	XM923HYY _User Manual.pdf
Test setup photos	Test setup photos	XM923HYY _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,

Guangdong, China

Tel : 86-755-26941617

Fax : 86-755-26941615

FCC Registration Number: 274801

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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 (Counter-top)

Model Numbers : XM923HYY

Model Tested : EM923HBM

Brand Name : Midea

Date Tested : 2007, August 20 to 21

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 EM923HYY (referred to the EUT in this report) is a Microwave Oven.

Power Supply	120V AC , 60 Hz
Rated Input Power	1400W
Rated Output Power	900W
Operation Frequency	2450MHz
Magnetron Manufacturer	WITOL
Magnetron Model Number	2M219J
Outside Dimensions (W×H×D)	18.1×14.1×11.0 in.
Oven Capacity:	0.8cu.ft
Turntable Diameter	⊄10.6 inch
Net Weight	Approx. 25.11bs.

Type of Deriver

XM923HYY model designations:

X=M, E or A

M: only the microwave functions;

9: indicate the output power is 900W;

23: indicate cavity capacity is 23 liters;

H: indicate the design No.;

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

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

Test Summary

The Electromagnetic Compatibility requirements on model tested EM923HBW 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 by 26.10 dB of QP	AC Input Port	Attachment 5	
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	Radiated Emission	Passed by 30.67dB of QP Passed by 6.10 dB of AV	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 for model



Front & Top View



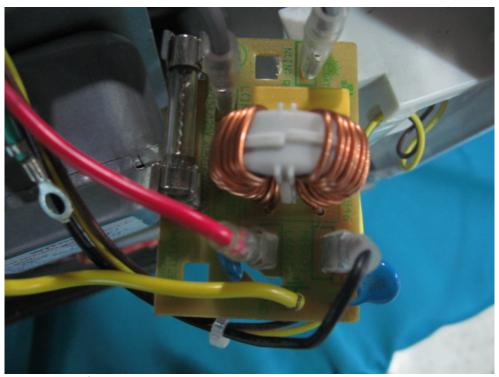
Rear View



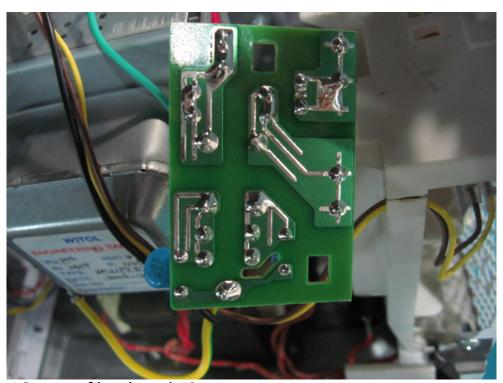
Door opened View



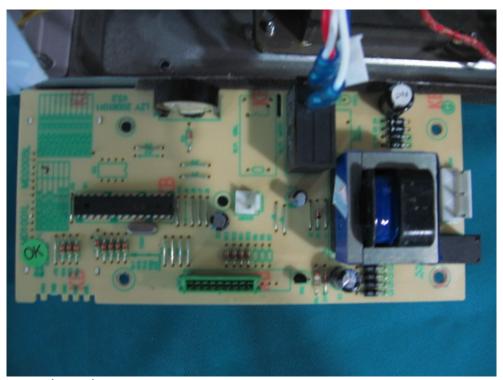
Uncovered View



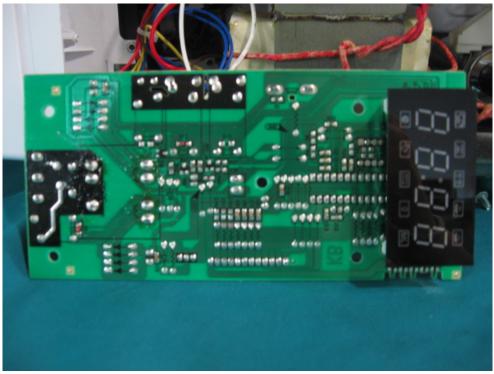
AC power filter board #1



AC power filter board #2



Main board #1

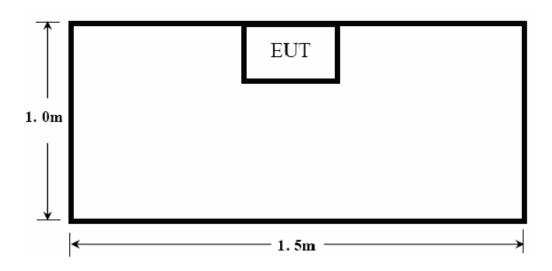


Main board #2

Test System Details

EUT					
Model Numbers:	XM923H	ΥY			
Model Tested:	ЕМ923НЕ	ЗМ			
Description:	Microwav	e Oven (C	ounter-top)		
Manufacturer:	Midea Mi	crowave a	nd Electrical Appli	iances Manufactui	ring Co.,Ltd
	Support Equipment				
			N/A		
		Cabl	le 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:	XM923HYY	PRODUCT:	Microwave Oven (Counter-top)		
MODEL TESTED:	ЕМ923НВМ	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22 ℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Eddy Chen	DATE OF TEST:	2007, August 20		
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 0.12 mW/cm2 observed at any point 5cm or more from the external surface of the oven.				
	A maximum of 1.0mW/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:

i dat daļumpimamas mati					
Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Microwave test instrument	Holaday	HI-1710A	00049254	12/26/2006	12/25/2007
Probe	Holaday	HI-2623	00056803	12/26/2006	12/25/2007

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).

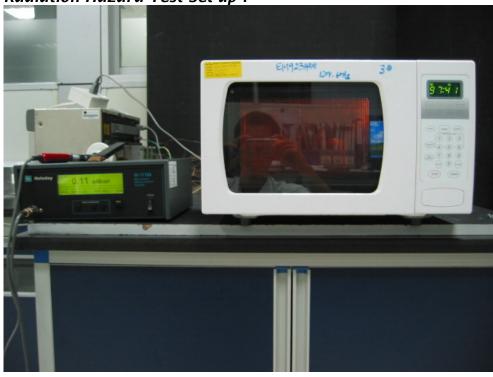
SIGNED BY:

ENGINEER

REVIEWED BY:

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:	XM923HYY	PRODUCT:	Microwave Oven (Counter-top)			
MODEL TESTED:	ЕМ923НВМ	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	22 ℃	HUMIDITY:	60%RH			
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord			
TESTED BY:	Eddy Chen	DATE OF TEST:	2007,August 20			
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 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	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:	± 5W					

Test Data:

Input Voltage	Input Current	Measured Input	Rated Input Power
(Vac/Hz)	(amps)	Power (watts)	(watts)
120	11.87	1427	1400

Test equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Power frequency test system	Ainuo	AN8716PX	058704273	06/12/2007	06/12/2008

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:

ENGINEER

REVIEWED BY: Low Wen

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:	XM923HYY	PRODUCT:	Microwave Oven (Counter-top)		
MODEL TESTED:	ЕМ923НВМ	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22°C	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Eddy Chen	DATE OF TEST:	2007, August 20		
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 = 661.5 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:

Quality of Water	Starting	Final	Elapsed Time	RF Output
(ml)	Temperature (${\mathcal C}$)	Temperature (°C)	(Seconds)	Power (watts)
1000	26.20	45.1	120	661.5

Test equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Data Acquisition	TES	TES-1310	020907011	12/03/2007	11/03/2008

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:

ENGINEER

REVIEWED BY:

SENIOR ENGINEER

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:	XM923HYY	PRODUCT:	Microwave Oven (Counter-top)	
MODEL TESTED:	ЕМ923НВМ	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22°C	HUMIDITY:	60%RH	
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Eddy Chen	DATE OF TEST:	2007, August 20	
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)
2458.8	2459.0

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2456.2	2466.1
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	01/25/2007	01/24/2008
Horn Antenna	R&S	HF906	SB3434	01/25/2007	01/24/2008
EMI Receiver	R&S	ES126	SB3436	01/25/2007	01/24/2008
3M Anechoic chamber	Albatross	9x6x6	SB3450	03/27/2007	03/27/2008

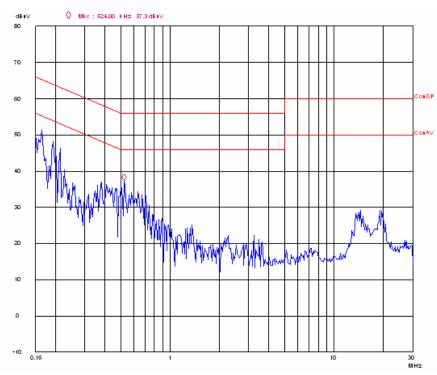
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

_	ENGINEER	_	SENIOR ENGINEER
SIGNED BY:	5 dely	REVIEWED BY:	from Wen

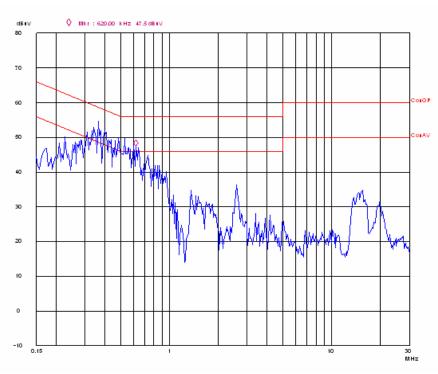
Operating Frequency Test Set-up:

ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	XM923HYY	PRODUCT:	Microwave Oven (Counter-top)	
MODEL TESTED:	ЕМ923НВМ	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22°C	HUMIDITY:	60%RH	
ATM PRESSURE:	101.1kPa	.1kPa GROUNDING :		
TESTED BY:	Eddy Chen	2007,August 21		
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OST	Г 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 quasipeaked and averaged. The frequency range investigated was from 150kHz to 30MHz.			
TESTED RANGE:	150kHz to 30MHz			
TEST VOLTAGE:	120VAC / 60Hz			
RESULTS:	The EUT meets the requirements of test reference for Conducted Emissions on line N by 26.10 dB of Quasi-Peak detector. 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	0.1660	42.70	65.10	-22.4	17.80	55.10	-37.30
L	0.1940	40.10	63.80	-23.70	16.10	53.80	-37.70
L	0.5240	41.40	56.00	-14.60	15.50	46.00	-30.50
N	0.3620	47.10	58.60	-11.50	22.50	48.60	-26.10
N	0.4860	42.60	56.20	-13.60	18.50	46.20	-27.70
N	0.6200	42.60	56.00	-13.40	18.20	46.00	-27.80

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	01/25/2007	01/24/2008
AMN	R&S	ESH2-Z5	SB3321	01/25/2007	01/24/2008

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: Juan Wen
FNGINEER SENIOR ENGINE

Conducted Emission Test Set-up:

ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

CLIENT:	Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	XM923HYY	PRODUCT:	Microwave Oven (Counter-top)	
MODEL TESTED:	ЕМ923НВМ	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22℃	HUMIDITY:	60%RH	
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Eddy Chen	DATE OF TEST:	2007,August 20	
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OST	MP-5:1986		
TEST PROCEDURE:	The EUT was set up according 5 for radiated emissions. nonconductive table. The top placed on a flush mounted m	Microwave oven was of the table is 1.0 m about	placed on a 1m *1.5m	
	An EMI receiver peak scan v scan) in an Anechoic chamb significant peaks marked. A from 30 MHz to 1GHz and av	er. Signal discrimination of the state of th	was then performed and the Quasi-peak detection mode	
	The following data lists the correction factors (including corrected readings against given as follows:	cable and antenna c	orrection factors), and the	
	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 on Horizontal polarization by 6.10 dB of Average detector at 9.2865 GHz. 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/mFor RF output power>5 00W, 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]			
440.874	н	37.4	-31.77	69.17			
692.865	Н	33.1	-36.07	69.17			
910.581	Н	33.7	-35.47	69.17			
430.351	V	36.7	-32.47	69.17			
657.431	V	32.3	-36.87	69.17			
690.048	V	38.5	-30.67	69.17			

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 GHz - 25GHz							
Frequency [GHz]	Antenna Polarization [V/H]	Corrected Reading [dBµV/m]	Delta, AV [dB]	3 Meters Limits [dBµV/m]			
4.7256	Н	60.57	-8.60	69.17			
9.8412	Н	61.54	-7.63	69.17			
17.2485	Н	58.72	-10.45	69.17			
4.8807	V	59.87	-9.30	69.17			
9.2865	V	63.07	-6.10	69.17			
15.0160	V	62.27	-6.90	69.17			

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:

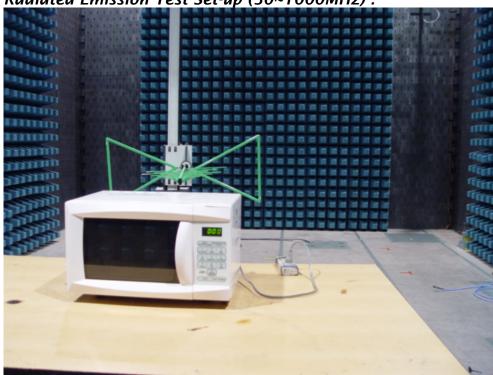
Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Bilog Antenna	Chase	CBL6112B	SB3440	01/25/2007	01/24/2008
Horn Antenna	R&S	HF906	SB3434	01/25/2007	01/24/2008
EMI Receiver	R&S	ES126	SB3436	01/25/2007	01/24/2008
3M Anechoic chamber	Albatross	9x6x6	SB3450	03/27/2007	03/26/2008

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

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



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

