

FCC CLASS II PERMISSION CHANGE TEST REPORT

On Model Name: Microwave Oven

Model Numbers: XG131AYY

Brand Name: Midea

FCC ID Number: RSFXG131AYY

Prepared for Guangdong Midea Microwave and Electrical

Appliances Manufacturing Co.,Ltd

According to

FCC Part 18(2010)

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#: GUA-1111-10737-FCC

Prepared by: Sewen Guo
Reviewed by: Jawen Yin
QC Manager: Swall Zhang

Test Report Released by:

November 24, 2011

Swall Zhang Date

List Attached Files

Exhibit Type	File Description	File Name
Test Report	Test Report	RSFXG131AYY_Test report.PDF
Operation Description	Technical Description	RSFXG131AYY_operation description. PDF
External Photos	External Photos	RSFXG131AYY_External Photos.PDF
Internal Photos	Internal Photos	RSFXG131AYY_Internal Photos.PDF
Block Diagram	Block Diagram	RSFXG131AYY_Block diagram. PDF
Schematics	Circuit Diagram	RSFXG131AYY_Schematics. PDF
ID Label/Location	Label and Location	RSFXG131AYY_Label & Location. PDF
User Manual	User Manual	RSFXG131AYY_User Manual. PDF
Test setup photos	Test setup photos	RSFXG131AYY_Test Setup.PDF

Test Location

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

Test Site Location: GD WITOL VACUUM ELECTRONIC EMC TEST

LABORATORY

BeiJiao, Shun De, Foshan, Guang Dong, 528311,

China

Tel : +86- 757-26326917

Fax : +86-757-26656995

Test Facility

• FCC – Registration No.: 910385

GD WITOL VACUUM ELECTRONIC EMC TEST LABORATORY has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC was maintained in our files.

Table of Contents

GOVERNMENT DISCLAIMER NOTICE	1
REPRODUCTION CLAUSE	1
OPINIONS AND INTERPRETATIONS	1
STATEMENT OF MEASUREMENT UNCERTAINTY	1
ADMINISTRATIVE DATA	2
EUT DESCRIPTION	3
EUT MODEL DERIVED	4
TEST SUMMARY	5
LOAD FOR MICROWAVE OVEN	6
EQUIPMENT MODIFICATION	7
EUT SAMPLE PHOTOS FOR MODEL EG131AHM	8
TEST SYSTEM DETAILS	13
CONFIGURATION OF TESTED SYSTEM	14
ATTACHMENT 1 - RADIATION HAZARD TEST	15
ATTACHMENT 2 - INPUT POWER MEASUREMENT	17
ATTACHMENT 3 - RF OUTPUT POWER MEASUREMENT	20
ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT	23
ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS	26
ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS	30

Government Disclaimer Notice

When government drawing, specification, or other data are used for any purpose other than in connection with a definitely related government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawing, specifications, or other data, is not to be regarded by implication or otherwise in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell patented invention that may in any way be related thereto. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Reproduction Clause

Any reproduction of this document must be done in full. No single part of this document may be reproduced without permission from ECMG Electronic Technical Testing Corp(Shenzhen).

Opinions and Interpretations

This test report relates to the above mentioned equipment under test (EUT). Without the permission of ECMG Electronic Technical Testing Corp(Shenzhen)., 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

Model Numbers : XG131AYY

Model Tested : EG131AHM

Brand Name : Midea

Date of Receipt : November 20, 2011

Date Tested : November 23, 2011

Applicant : Guangdong Midea Microwave and Electrical

Appliances Manufacturing Co.,Ltd.

Address : No.6, Yong An Road, Beijiao, Shunde, Foshan.

Guangdong, 528311, China.

Manufacturer : Guangdong Midea Microwave and Electrical

Appliances Manufacturing Co., Ltd.

Address : No.6, Yong An Road, Beijiao, Shunde, Foshan.

Guangdong, 528311, China.

Factory : Guangdong Midea Microwave and Electrical

Appliances Manufacturing Co., Ltd.

Address : No.6, Yong An Road, Beijiao, Shunde, Foshan.

Guangdong, 528311, China.

EUT Description

Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd., model tested EG131AHM (referred to the EUT in this report) is a Microwave Oven.

Power Supply	120V~ 60Hz
Rated Input Power (Microwave)	1550W
Rated Output Power (Microwave)	1100 W
Frequency	2450 MHz (Class B/Group 2)
Magnetron Model	2M319J
Magnetron Manufacturer	WITOL

For more informations please refer to user's manual of EUT.

EUT Model Derived

XG131AYY model designation are as follows:

X=E or A;

G: indicate microwave Oven with grill function

131: "1" indicate the microwave output power is 1100W, "31" indicate cavity capacity is 31 liters;

A: indicate the design No.;

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

Note:

This is an Class II Permission change test report, the original report # is RSZ08121251 which is from Bay Area Compliance Laboratories Corp (Shenzhen). for differences between this two reports, please refer to cover letter provided by client.

Test Summary

The electromagnetic compatibility requirements on model EG131AHM 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 18:2010 FCC/OST MP-5:1986 ANSI C63.4-2009	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1		
FCC Part 18:2010 FCC/OST MP-5:1986 ANSI C63.4-2009	Input Power Measurement	Passed	AC Input Port	Attachment 2		
FCC Part 18:2010 FCC/OST MP-5:1986 ANSI C63.4-2009	RF Output power Measurement	Passed	EUT	Attachment 3		
FCC Part 18:2010 FCC/OST MP-5:1986 ANSI C63.4-2009	Operating Frequency Measurement	Passed	EUT	Attachment 4		
FCC Part 18:2010 FCC/OST MP-5:1986 ANSI C63.4-2009	Conducted Emission	Passed	AC Input Port	Attachment 5		
FCC Part 18:2010 FCC/OST MP-5:1986 ANSI C63.4-2009	Radiated Emission	Passed	Enclosure	Attachment 6		

Load for Microwave Oven

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.
- **Note**: Since rated output power of the EUT is 1100 watts, the following load water quantity shall apply:
- -Load for power output measurement: 1100 milliliters of water in the beaker located in the center of the oven.
- -Load for frequency measurement: 1100 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 770 and the other of 330 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: 770 milliliters of water, with the beaker located in the center of the oven.

Equipment Modification

Any modification installed previous to testing by Guangdong 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 Electronic Technical Testing Corp(Shenzhen) test personnel.

EUT Sample Photos for Model EG131AHM



EUT -Front View



EUT -Rear View



Door Opened View



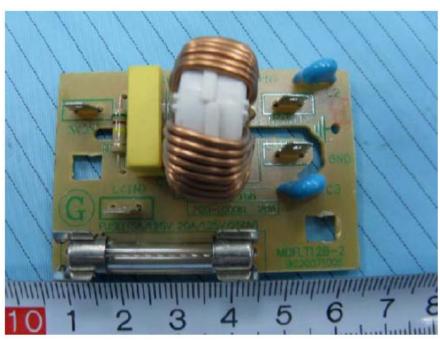
EUT -Inside View



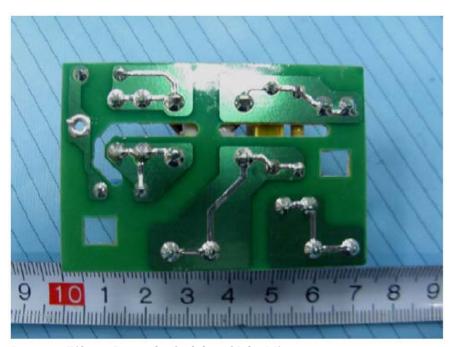
High-voltage Transformer View



Magnetron Front View



Power Filter Board -Component Side View



Power Filter Board -Solder Side View



Control Board -Component Side View

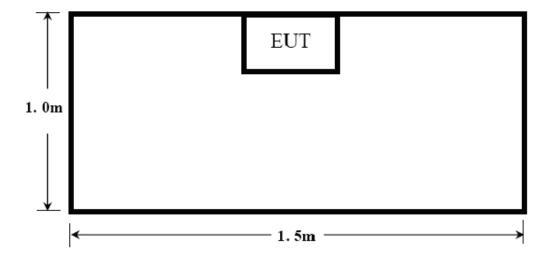


Control Board -Solder Side View

Test System Details

EUT						
Model Numbers:	XG131A)	/ Y				
Model Tested:	EG131AF	I M				
Description:	Microwa	ve Oven				
Manufacturer:	Manufacturer: Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.					
	Support Equipment					
			N/A			
		Cai	ble Description			
Description	From	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:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XG131AYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	EG131AHM	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	November 23, 2011		
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MI	P-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 770ml 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 0.012 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 Electronic Technical Testing Corp(Shenzhen)(China) test personnel.				
M. UNCERTAINTY:	0.0001 mW/cm ²				

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Microwave Measurement	HOLADAY	HI-1710A	00052558	11/10/2011	11/09/2012

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:

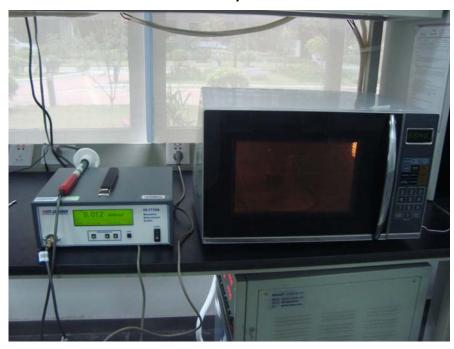
Severano

______REVIEW

REVIEWED BY:

SENIOR ENGINEER

Radiation Hazard Test Set-up:



ATTACHMENT 2 - INPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	XG131AYY	PRODUCT:	Microwave Oven	
MODEL TESTED:	EG131AHM	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22℃	HUMIDITY:	60%RH	
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Sewen Guo	DATE OF TEST:	November 23, 2011	
TEST REFERENCE:	ANSI C63.4-2009, 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 770ml 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 Electronic Technical Testing Corp(Shenzhen) (China) test personnel.			
M. UNCERTAINTY:	± 5W			

Test Data:

Input Voltage	Input Current	Measured Input	Rated Input Power
(Vac/Hz)	(amps)	Power (watts)	(watts)
119.5	14.17	1561	1550

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Power Meter	Ainuo	AN8726C	058704200	08/13/2011	08/12/2012

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:

ENCINEED

REVIEWED BY:

SENIOD ENGINEED

Input Power Test Set-Up :



ATTACHMENT 3 - RF OUTPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XG131AYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	EG131AHM	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	November 23, 2011		
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MI	P-5:1986			
TEST PROCEDURE:	The EUT was set up according to the FCC MP-5 and FCC Part 18 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 1100ml 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 × 1100 × (Final Temp – Initial Temp) / 120				
TESTED RANGE:	N/A				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	RF Output Power =993.3 watts. The test results relate only to the equipment under test provided by client.				
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Electronic Technical Testing Corp(Shenzhen)(China) test personnel.				
M. UNCERTAINTY:	± 0.3℃				

Test Data:

Quality of Water (ml)	Starting Temperature (°C)	Final Temperature (°C)	Elapsed Time (Seconds)	RF Output Power (watts)
1100	20.0	45.8	120	993.3

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Digit Thermometer	Fluke Corporation	Fluke 51 II	87500204	10/26/2011	10/25/2012
Stopwatch	CASIO	HS-3	511Q038	10/22/2011	10/21/2012

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).

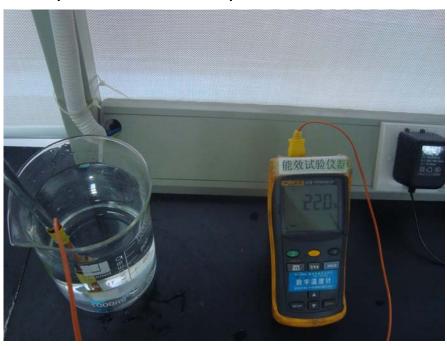
SIGNED BY:

ENGINEER

REVIEWED BY:

SENIOR ENGINEER

RF Output Power Test Set-Up :



ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

	ſ	Ī	I		
CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XG131AYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	EG131AHM	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	November 23, 2011		
TEST REFERENCE:	ANSI C63.4-2009, 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 1100ml 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 1100ml 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 in Corp(Shenzhen) (China) test pers		ctronic Technical Testing		
M. UNCERTAINTY:	Freq. ±10kHz				

Variation in Operating Frequency with Time:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2465.43	2469.04

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2464.23	2468.64
Note: Line voltage varied from 96Vac to 150Vac.	

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI test receiver	R&S	ESIB-26	100174	11/18/2011	11/17/2012
Horn Antenna	R&S	HF906	100311	11/20/2011	11/17/2012

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:

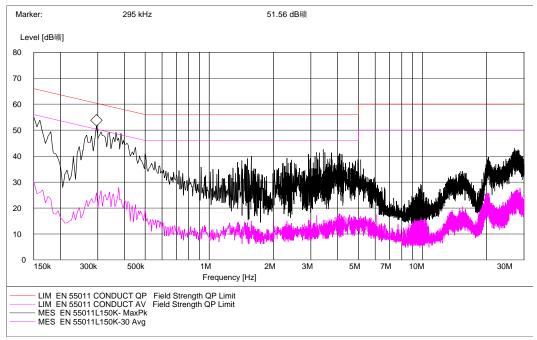
SENIOR ENGINEER

Operating Frequency Test Set-up:

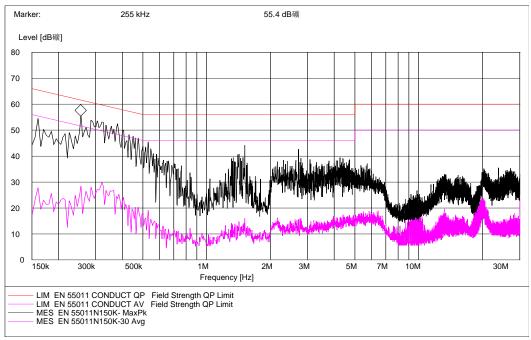


ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18				
MODEL NUMBERS:	XG131AYY	PRODUCT:	Microwave Oven				
MODEL TESTED:	EG131AHM	EUT DESIGNATION:	Home or Office				
TEMPERATURE:	22℃	HUMIDITY:	60%RH				
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord				
TESTED BY:	Sewen Guo	DATE OF TEST:	November 23, 2011				
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-5:1986						
TEST PROCEDURE:	conducted emissions. The meas receiver peak scan was made at	surement was using t the frequency mea ked, and these sigr	NSI C63.4-2009 & FCC MP-5 for a AMN on each line and an EMI surement range. The six highest hals were then quasi-peaked and a 150kHz to 30MHz.				
TESTED RANGE:	150kHz to 30MHz						
TEST VOLTAGE:	120VAC / 60Hz						
RESULTS:	The EUT meets the requirements of test reference for conducted emissions. The test results relate only to the equipment under test provided by client.						
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Electronic Technical Testing Corp(Shenzhen) (China) test personnel.						
M. UNCERTAINTY:	±2.5 dB	±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	0.940	453	56	-10.7	22.9	46	-23.1
L	1.935	36.8	56	-19.2	16.3	46	-29.7
L	9.810	42.8	60	-17.2	30.6	50	-19.4
N	0.210	46.9	60.5	-13.6	29.4	50.5	-21.1
Ν	2.325	32.9	56	-23.1	27.9	46	-18.1
N	9.880	36.1	60	-23.9	30.0	50	-20.0

Note: All readings are using a bandwidth of 9 kHz, with a 500 ms sweep time. All other emission levels are too low against the official limits that are not reported.

Test Equipments List:

Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due
EMI test receiver	R&S	ESIB-26	100174	11/19/2011	11/18/2012
LISN	R&S	ESH2-Z5	100091	11/19/2011	11/18/2012
Transient Limiter	Agilent	11947A	3107A0364 8	11/19/2011	11/18/2012
Shielding Room	TDK	8m×4m×3m	N/A	04/17/2011	04/16/2012

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

Conducted Emission Test Set-up:



ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18
MODEL NUMBERS:	XG131AYY	PRODUCT:	Microwave Oven
MODEL TESTED:	EG131AHM	EUT DESIGNATION:	Home or Office
TEMPERATURE:	22℃	HUMIDITY:	60%RH
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord
TESTED BY:	Sewen Guo	DATE OF TEST:	November 23, 2011
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP	P-5:1986	
TEST PROCEDURE:	radiated emissions. Microwave The top of the table is 1.0 m about metal turntable. An EMI receive range (pre-scan) in an Anechoi and the significant peaks marked from 30 MHz to 1GHz and avera The following data lists the significant peaks.	Oven was placed on ove the ground. The tar peak scan was make c chamber. Signal data was record ge detector mode aboricant emission frequentenna correction factors.	encies, measured levels, correction tors), and the corrected readings
TESTED RANGE:	30MHz to 24.5GHz		
TEST VOLTAGE:	120VAC / 60Hz		
RESULTS:	The EUT meets the requirement results relate only to the equipment		for radiated emissions. The test d by client.
CHANGES OR MODIFICATIONS:	There were no modifications Corp(Shenzhen) (China) test per		G Electronic Technical Testing
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]	Reading Level [dBµV/m]	Factor (dB)	Field Strength [dBµV/m]	Delta, QP [dB]	3 Meters Limits [dBµV/m]	
169.960	Н	13.3	11.2	24.5	-46.4	70.9	
282.705	Н	24.5	13.2	37.7	-33.2	70.9	
653.988	Н	16.2	22.5	38.7	-32.2	70.9	
35.832	V	18.1	11.0	29.1	-41.8	70.9	
640.381	V	14.0	21.8	35.8	-35.1	70.9	
741.463	V	15.7	23.6	39.3	-31.6	70.9	

Note: 1) All readings are quasi-peak unless stated otherwise, using a bandwidth of 120kHz, with a 60s sweep time. A video filter was not used. 2) Field Strength = Reading Level + Factor, Factor = Antenna Factor + Cable Loss

1GHz - 25GHz								
Frequency [GHz]	Antenna Polarization [V/H]	Reading Level [dBµV/m]	Factor (dB)	Field Strength [dBµV/m]	Delta, AV [dB]	3 Meters Limits [dBµV/m]		
9.116	Н	29.9	24.7	54.6	-16.3	70.9		
14.583	Н	18.2	35.9	54.1	-16.8	70.9		
14.832	Н	17.6	35.3	52.9	-18.0	70.9		
8.495	V	25.8	22.4	48.2	-22.7	70.9		
10.141	V	29.1	28.1	<i>57.2</i>	-13.7	70.9		
14.832	V	17.6	35.3	52.9	-18.0	70.9		

Note: 1) All readings are average unless stated otherwise, using a bandwidth of 1MHz, with a 60s sweep time. A video filter was not used. 2) Field Strength = Reading Level + Factor, Factor = Antenna Factor + Cable Loss - Preamp Factor.

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI test receiver	R&S	ESIB-26	100174	11/19/2011	11/18/2012
Horn Antenna	R&S	HF906	100311	11/21/2011	11/20/2012
Amplifiler	Agilent	83017A	N/A	11/21/2011	11/20/2012
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130144	11/21/2011	11/20/2012
Anechoic Chamber	TDK	9m×6 m×5.7m	N/A	04/17/2011	04/16/2012

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

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



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



Report #: GUA-1111-10737-FCC
Prepared for Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd
Prepared by ECMG Electronic Technical Testing Corp(Shenzhen). Page 33 of 33