

# EMI TEST REPORT

On Model Name: Microwave Oven

Model Numbers: XC042AYY,XC042BYY,XC042AYY-SHB

Brand Name: Midea

FCC ID Number: VG8XC042AYY

Prepared for Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.

According to

FCC Part 18(2015)

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-1601-11404-FCC

Prepared by: ECMG
ViVi Huang/Assistant Company Name

Sametifica

Jawen Yin/Senior Engineer Company Name

QC Manager: Swell Thang ECMG

Swall Zhang/QC Manager Company Name

Test Report Released by: Swell Zhang January 28th, 2015

all Zhana Date

#### **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, ShunDe, FoShan, Guang Dong,

528311, China

Tel : (86)-757-26326917

Fax : (86)-757- 22607341

#### **Test Facility**

The test facility was recognized, certified, or accredited by the following organizations:

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

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## **List Attached Files**

Exhibit Type	File Description	File Name
Test Report	Test Report	VG8XC042AYY_Test Report.pdf
Operation Description	Technical Description	VG8XC042AYY_Operation Description.pdf
External Photos	External Photos	VG8XC042AYY_External Photos.pdf
Internal Photos	Internal Photos	VG8XC042AYY _Internal Photos.pdf
Block Diagram	Block Diagram	VG8XC042AYY _Block Diagram.pdf
Schematics	Circuit Diagram	VG8XC042AYY_Schematics.pdf
ID Label/Location	Label and Location	VG8XC042AYY_Label & Location.pdf
User Manual	User Manual	VG8XC042AYY_User's Manual.pdf
Test set-up photos	Test set-up photos	VG8XC042AYY _Test Set-up Photos

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#### **Opinions and Interpretations**

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

Model Numbers : XC042AYY,XC042BYY,XC042AYY-SHB

Model Tested : EC042AI4

Brand Name : Midea

Receipt Date : January 15th, 2015

Date Tested : January 18th, 2015

Applicant : Guangdong Midea Kitchen Appliances

Manufacturing Co.,Ltd.

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

Telephone : (86)-757-23606480

Fax : (86)-757-22607341

Manufacturer : Guangdong Midea Kitchen Appliances

Manufacturing Co.,Ltd.

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

Telephone : (86)-757-23606480

Fax : (86)-757-22607341

Factory : Guangdong Midea Kitchen Appliances

Manufacturing Co.,Ltd.

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

Telephone : (86)-757-23606480

Fax : (86)-757-22607341

#### **EUT Description**

Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd. model tested EC042AI4 (referred to as the EUT in this report) is a Microwave Oven.

The technical specifications of EUT are as below:

The technical specifications of	Let alle as below.
Power Supply	120V AC/60Hz
Rated Input Power (Microwave)	1500W OR 1600W (only for marketing purpose)
Rated Output Power (Microwave)	1000W
Rated Input Power (Grill)	1300W
Rated Input Power (Convection)	1400W
Frequency	2450 MHz(Class B/Group 2)
Magnetron Model	2M319J
Magnetron Manufacturer	WITOL

Note: For more detailed information or features please refer to user's manual of EUT.

#### **EUT Model Derived**

XC042AYY,XC042BYY,XC042AYY-SHB model designations as follows: X=E or A;

C: Indicate Microwave, Grill and Convection;

042: "0" indicate the microwave output power is 1000W, "42" indicate cavity capacity is 42 liters;

A/B: Indicate the design No.;

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

-S: Steel Cavity;

H: Humidity induction;

B: Embedded.

Model EC042AI4 was chosen for the final testing.

#### **Test Summary**

The electromagnetic compatibility requirements on model EC042AI4 for this test are 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 18:2015 FCC/OST MP-5:1986 ANSI C63.4-2014	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1	
FCC Part 18:2015 FCC/OST MP-5:1986 ANSI C63.4-2014	Input Power Measurement	Passed	AC Input Port	Attachment 2	
FCC Part 18:2015 FCC/OST MP-5:1986 ANSI C63.4-2014	RF Output power Measurement	Passed	EUT	Attachment 3	
FCC Part 18:2015 FCC/OST MP-5:1986 ANSI C63.4-2014	Operating Frequency Measurement	Passed	EUT	Attachment 4	
FCC Part 18:2015 FCC/OST MP-5:1986 ANSI C63.4-2014	Conducted Emission	Passed	AC Input Port	Attachment 5	
FCC Part 18:2015 FCC/OST MP-5:1986 ANSI C63.4-2014	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.

#### **EUT Exercise Software**

No Test sofware support this test.

#### **Equipment Modification**

Any modifications installed previous to testing by Guangdong Midea Kitchen 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 EC042AI4**



**EUT Front View** 



**EUT Back View** 

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Prepared by ECMG Electronic Technical Testing Corp (Shenzhen). Page 7 of 32



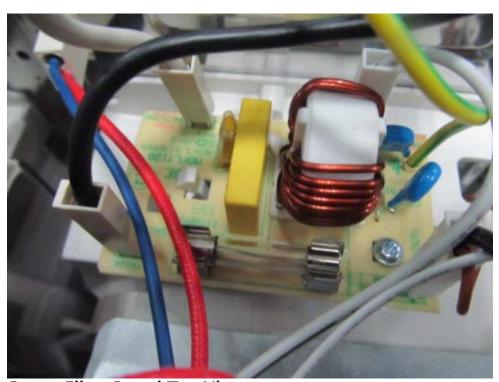
**Door Opend View** 



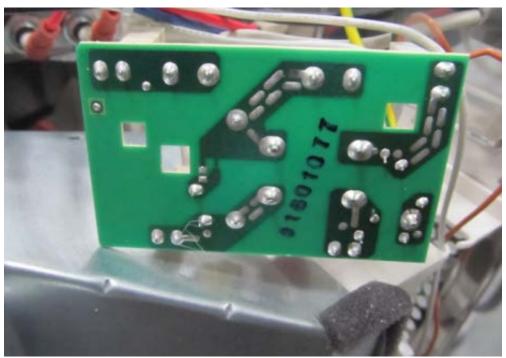
**EUT Uncovered View** 



**Magnetron Front View** 



Power Filter Board Top View



**Power Filter Board Bottom View** 



Mother board - Top View



Mother board - Bottom View

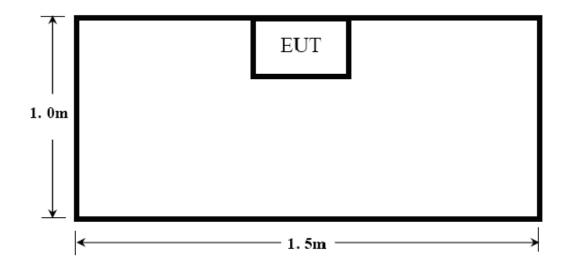
## **Test System Details**

			EUT			
Model Number:	XC042A	AYY,XC042B\	Y,XC042AYY-S	НВ		
Model Tested:	EC042A	\ <i>1</i> 4				
Description:	Microw	ave Oven				
Input:	AC 120	V/60Hz				
Manufacturer:	Guanga	long Midea K	itchen Applian	ces Manu	facturii	ng Co.,Ltd.
		Suppor	t Equipment			
Description	Mode	Model Number Serial Number Manufacture			nufacturer	
	<u>,                                      </u>		N/A			
		Cable I	Description			
Description	From	То	Length (Meters)	Shiel (Y/I		Ferrite (Y/N)
Power Cable	EUT	Plug	1.2	N		N

#### Note:

The EUT has been tested as an independent unit together with other necessary accessories or support units. The above support units or accessories were used to form a representative test configuration during the test tests.

# **Configuration of Tested System**



#### ATTACHMENT 1 -RADIATION HAZARD TEST

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	XC042AYY,XC042BYY,XC0 42AYY-SHB	PRODUCT:	Microwave Oven	
MODEL TESTED:	EC042AI4	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	23°C	HUMIDITY:	51%	
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Yang Dongmei	DATE OF TEST:	January18 <sup>th</sup> ,2015	
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST N	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 700ml 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 microwavemeter will check the leakage and then record the maximum leakage.			
TESTED RANGE:	N/A			
TEST VOLTAGE:	AC 120V/60Hz			
RESULTS:	There was no microwave leakage exceeding a power level of 0.19 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) test personnel.			
M. UNCERTAINTY:	0.0001 mW/cm <sup>2</sup>			

Test Equipment List:

Test Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Microwave Measurement	HOLADAY	HI-1710A	00052558	2017.1.13

TESTED BY:

REVIEWED BY:

SENIOR ENGINEER

REVIEWED BY:

## Radiation Hazard Test Set up:



## ATTACHMENT 2 - INPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	XC042AYY,XC042BYY,XC 042AYY-SHB	PRODUCT:	Microwave Oven	
MODEL TESTED:	EC042AI4	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22℃	HUMIDITY:	59%	
ATM PRESSURE:	103.1kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Yang Dongmei	DATE OF TEST:	January 18 <sup>th</sup> ,2015	
TEST REFERENCE:	ANSI C63.4-2014, 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 700ml 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) test personnel.			
M. UNCERTAINTY:	± 5W			

#### Test Data:

Input voltage	Input Current	Measured Input Power	Rated input Power
(V)	(A)	(W)	(W)
120.7	13.55	1579	1500&1600

## Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Power Meter	Ainuo	AN8726C	058704200	2016.2.6

TESTED BY:

REVIEWED BY:

SENIOR ENGINEER

SENIOR ENGINEER

Input power Test Set up:



#### ATTACHMENT 3 - RF OUTPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	XC042AYY,XC042BYY,XC0 42AYY-SHB	PRODUCT:	Microwave Oven	
MODEL TESTED:	EC042AI4	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22 °C	HUMIDITY:	60%RH	
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Yang Dongmei	DATE OF TEST:	January 18 <sup>th</sup> ,2015	
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST MP-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 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 =840 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) test personnel.			
M. UNCERTAINTY:	± 0.3°C			

#### Test Result:

Initial Temp	Final Temp	Measured Times	Measured out put
(°C)	(で)	(s)	Power(W)
20.3	44.3	1205	840.0

RF Output Power (W) =  $4.2 \times 1000 \times (Final\ Temp - Initial\ Temp) / 120 = 840.0 \text{watts}$ 

Test Equipments list:

Test Equipment Manufacturer		Model	Serial No.	Cal. Due Date	
Digit Thermometer Fluke Corporation		Fluke 51 II	15940197	2016.08.12	
Stopwatch CASIO		HS-3	CF-004	2016.07.13	

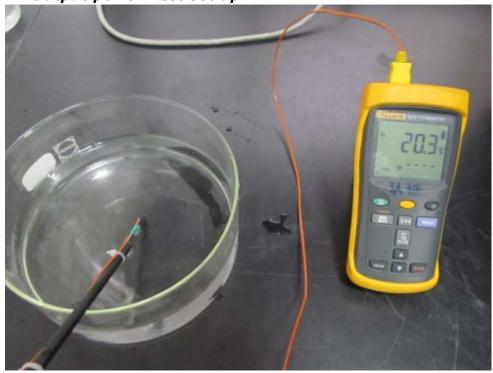
TESTED BY:

REVIEWED BY:

SENIOR ENGINEER

TESTED BY:

RF Output power Test Set up:



## ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XC042AYY,XC042BYY,XC0 42AYY-SHB	PRODUCT:	Microwave Oven		
MODEL TESTED:	EC042AI4	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Yang Dongmei	DATE OF TEST:	January 18 <sup>th</sup> ,2015		
TEST REFERENCE:	ANSI C63.4-2014, 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 Electronic Technical Testing Corp (Shenzhen) test personnel.				
M. UNCERTAINTY:	Freq. ±10kHz				

# Variation in Operating Frequency with Time:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2453.1	2458.6

## Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)				
2457.1	2460.6				
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	11/18/2015	11/17/2016
Horn Antenna	R&S	HF906	100311	11/20/2015	11/21/2016

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).

TESTED BY:

REVIEWED BY:

SENIOR ENGINEER

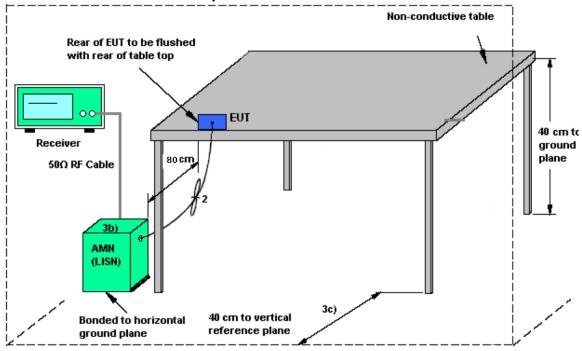
**Operating Frequency Test Set-up:** 



#### ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

			I		
CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XC042AYY,XC042BYY,XC0 42AYY-SHB	PRODUCT:	Microwave Oven		
MODEL TESTED:	EC042AI4	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Yang Dongmei	DATE OF TEST:	January 18 <sup>th</sup> ,2015		
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST MP-5:1986				
TEST PROCEDURE:	The EUT was set up according for conducted emissions. The an EMI receiver peak scan was ix highest significant peaks was quasi-peaked and averaged. 150kHz to 30MHz.	e measurement was using as made at the frequency were then marked, and th	g a AMN on each line and measurement range. The lese signals were then		
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 (Shenzhen) test personnel.	installed by ECMG Electr	ronic Technical Testing Corp		
	The maximum measurement	uncertainty is evaluated	as :		
M. UNCERTAINTY:	150KHz~ 30MHz: 3.0dB				

#### Conducted Emission Test Set up:

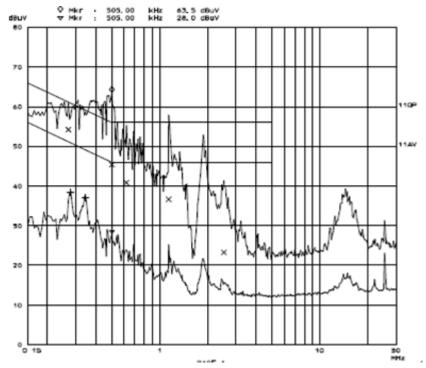


AMN = Artificial mains network (LISN)

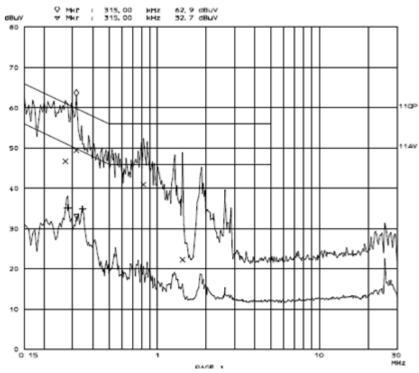
AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network



Line L Conducted Emission Graph



Line N Conducted Emission Graph

#### Test Data:

Lines (L/N)	Frequency (MHz)	Corrected QP Level (dBuV)	Limits QP (dBuV)	Margin QP (dB)	Frequency (MHz)	Corrected AV Level (dBuV)	Limits AV (dBuV)	Margin QP (dB)
L	0.620	40.8	56	-15.2	0.620	/	46	/
L	1.140	36.7	56	-19.3	1.140	/	46	/
L	2.510	23.2	56	-32.8	2.510	/	46	/
N	0.315	49.4	59.8	-10.4	0.315	/	49.8	/
N	0.820	40.9	56	-15.1	0.820	/	46	/
N	1.430	22.2	56	-33.8	1.430	/	46	/

#### Note:

- 1) All readings are using a bandwidth of 9 kHz, with a 500 ms sweep time. A video filter was not used.
- 2) "QP" means "Quasi-Peak" values, "AV" means "Average" values.
- 3) The other reading are too low against official limits that are not be recorded.

## Test Equipments List:

Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due
EMI test receiver	R&S	ESIB-26	100174	11/19/2015	11/18/2016
LISN	R&S	ESH2-Z5	100091	11/19/2015	11/18/2016
Transient Limiter	Agilent	11947A	3107A03648	11/19/2015	11/18/2016
Shielding Room	TDK	8m×4m×3m	N/A	04/17/2015	04/16/2017

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).

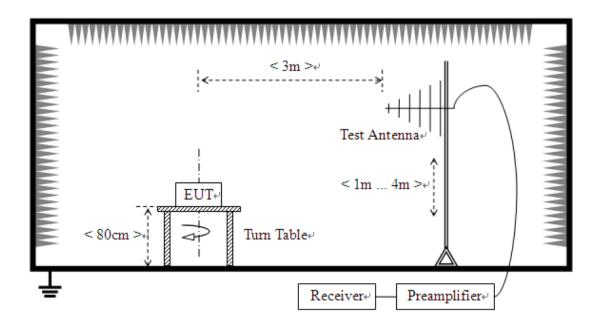
TESTED BY:	杨个子3	<b>初かり</b> REVIEWED BY:	Samentino
	ENGINEER		SENIOR ENGINEER

## **Conducted Emission Test Set-up:**

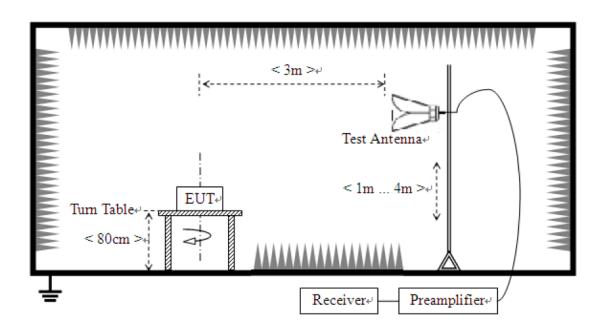


## ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18
MODEL NUMBERS:	XC042AYY,XC042BYY,XC 042AYY-SHB	PRODUCT:	Microwave Oven
MODEL TESTED:	EC042AI4	EUT DESIGNATION:	Home or Office
TEMPERATURE:	22 °C	HUMIDITY:	63%RH
ATM PRESSURE:	103.0kPa	GROUNDING:	Through AC Power Cord
TESTED BY:	Yang Dongmei	DATE OF TEST:	January 18 <sup>th</sup> ,2015
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST	MP-5:1986	
TEST PROCEDURE:	The EUT was set up according 5 for radiated emissions. Michael nonconductive table. The top placed on a flush mounted made at the frequency meast Signal discrimination was the data was recorded in Quasi-paverage detector mode above. The following data lists the signared corrected readings against the given as follows:  FS= RA + AF + CF - AG  Where: FS = Field Strength  RA = Receiver Amplitude  AF = Antenna Factor  CF = Cable Attenuation Factor  AG = Amplifier Gain	rowave Oven was placed of the table is 1.0 m about a turntable. An EMI requirement range (pre-scan performed and the sign peak detection mode from a 1GHz.  gnificant emission frequence and antenna corrected limits. Explanation of the second content of the second content and antenna corrected limits.	d on a 1m *1.5m eve the ground. The table is ceiver peak scan was in an Anechoic chamber. enificant peaks marked. All en 30 MHz to 1GHz and encies, measured levels, etion factors), and the
TESTED RANGE:	30MHz to 24.5GHz		
TEST VOLTAGE:	120VAC / 60Hz		-
RESULTS:	The EUT meet the requirement test results relate only to the		
CHANGES OR MODIFICATIONS:	There were no modifications Corp (Shenzhen) test person		ronic Technical Testing
M. UNCERTAINTY:	The maximum measurement 30~1000MHz: 4.76dB; 1~25GHz: 4.5dB	uncertainty is evaluated	as:



For radiated emissions above 1GHz



### Field strength limits for out-of-band emissions:

For RF output power <500W, Limit at 300m = 27.96dBuV/mFor 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]	Factor (dB)	Field Strength [dBµV/m]	Delta, QP [dB]	3 Meters Limits [dBµV/m]	
634.549	V	13.5	22.0	35.50	-34.70	70.2	
626.774	V	19.39	22.0	41.39	-28.81	70.2	
620.942	V	21.45	21.5	42.95	-27.25	70.2	
704.529	Н	7.8	23.8	31.60	-38.60	70.2	
591.784	Н	12.28	20.1	32.38	-37.82	70.2	
615.110	Н	10.23	21.5	31.73	-38.47	70.2	

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 = Read Level + Factor, Factor = Antenna Factor + Cable Loss - Preamp Factor.

	IGHz - 25GHz							
Frequency [GHz]	Antenna Polarization [V/H]	Corrected Reading [dBµV/m]	Factor (dB)	Field Strength [dBµV/m]	Delta, AV [dB]	3 Meters Limits [dBµV/m]		
14.724	V	24.79	35.34	60.13	-10.07	70.2		
10.154	V	14.76	28.07	42.83	-27.37	70.2		
9.824	V	16.33	28.07	44.40	-25.80	70.2		
9.042	Н	25.23	24.67	49.90	-20.30	70.2		
10.124	Н	16.45	28.07	44.52	-25.68	70.2		
14.754	Н	19.83	35.34	55.1 <i>7</i>	-15.03	70.2		

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 = Read 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	11/19/2015	11/18/2016
Horn Antenna	R&S	HF906	100311	11/21/2015	11/20/2016
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130144	11/21/2015	11/20/2016
Loop Antenna	ETS	ETS-6152	24934	11/21/2015	11/20/2016
Anechoic Chamber	TDK	9m×6 m×5.7m	N/A	04/17/2015	04/16/2017

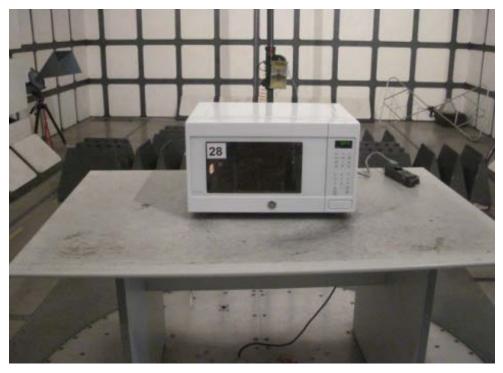
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

TESTED BY: _	FNGINEER	REVIEWED BY:	SENIOR ENGINEER
	杨个村3		Jamestin

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



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



\*\*\* End Of Report \*\*\*