

EMI TEST REPORT

On Model Name: Microwave Oven						
Model Number: AM025FYY-S, AM025FYY-P						
Brand Name: Olidea						
Prepared for Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.						
FCC ID Number: VG8AM025F4R						
According to FCC Part 18(2013) 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-1308-11038-FCC						
Tested by:Seven Guo/EngineerECMGEcwarGuo/EngineerCompany Name						
Reviewed by: Jawen Yin/Senior Engineer Company Name						
QC Manager: Swall Zhang/QC Manager Company Name						
Test Report Released by: Swall Zhang September 18 th , 2013						

Swall Zhang

Date

Test Location

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

Test Site Location	: GD WILOT VACUUM ELECTRONIC EMC TEST LABORATORY
	BeiJiao,ShunDe,FoShan,GuangDong, 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 WILOT 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	VG8AM025F4R _Test Report.pdf
Operation Description	Technical Description	VG8AM025F4R_Operation Description.pdf
External Photos	External Photos	VG8AM025F4R _External Photos
Internal Photos	Internal Photos	VG8AM025F4R _Internal Photos
Block Diagram	Block Diagram	VG8AM025F4R_Block Diagram.pdf
Schematics	Circuit Diagram	VG8AM025F4R_Schematics.pdf
ID Label/Location	Label and Location	VG8AM025F4R _Label & Location.pdf
User Manual	User Manual	VG8AM025F4R_User's Manual.pdf
Test set-up photos	Test set-up photos	VG8AM025F4R _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	: AM025FYY-S, AM025FYY-P
Model Tested	: AM025F4R-P
Brand Name	Midea
Receipt Date	: September 9 th , 2013
Date Tested	: September 10 th , 2013 to September 13 th , 2013
Applicant	: Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.
Address	No.6, Yong An Road, Beijiao, Shunde, Foshan, Guangdong, 528311, China
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, Guangdong, 528311, China
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, Guangdong, 528311, China
Telephone	: (86)-757-23606480
Fax	: (86)-757-22607341

EUT Description

Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd. model tested AM025F4R–P (referred to as the EUT in this report) is a Microwave Oven.

The technical	specifications o	f EUT ar	e as below	:

Power Supply	120V AC/60Hz
Rated Input Power (Microwave)	1500W
Rated Output Power (Microwave)	1000W
Frequency	2450 MHz(Class B/Group 2)
Magnetron Model	2M248J
Magnetron Manufacturer	TOSHIBA

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

EUT Model Derived

AM025FYY-S, AM025FYY-P model designations are as follows:

A: Button type keypad Electronic Controller;

025: "0" indicate the microwave output power is 1000W, "25" indicate cavity capacity is 25 liters;

F: Indicate the design No.;

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

S: Stainless cavity; P: Painted cavity.

Model AM025F4R-P was selected for the final testing.

Test Summary

The electromagnetic compatibility requirements on model AM025F4R-P 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 18:2013 FCC/OST MP-5:1986 ANSI C63.4-2009	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1			
FCC Part 18:2013 FCC/OST MP-5:1986 ANSI C63.4-2009	Input Power Measurement	Passed	AC Input Port	Attachment 2			
FCC Part 18:2013 FCC/OST MP-5:1986 ANSI C63.4-2009	RF Output power Measurement	Passed	EUT	Attachment 3			
FCC Part 18:2013 FCC/OST MP-5:1986 ANSI C63.4-2009	<i>Operating Frequency Measurement</i>	Passed	EUT	Attachment 4			
FCC Part 18:2013 FCC/OST MP-5:1986 ANSI C63.4-2009	Conducted Emission	Passed	AC Input Port	Attachment 5			
FCC Part 18:2013 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.

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 AM025F4R-P



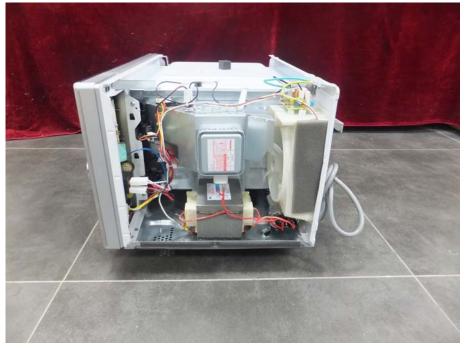
EUT Front View



EUT Back View



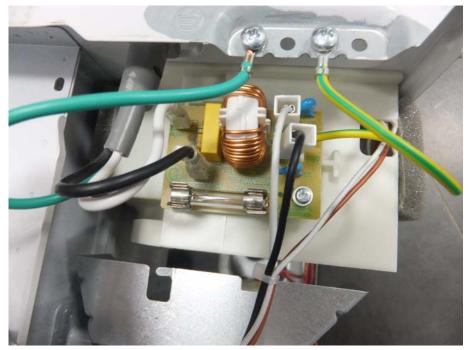
Door Opend View



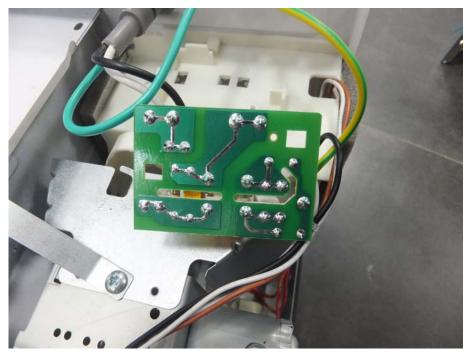
EUT Uncovered View



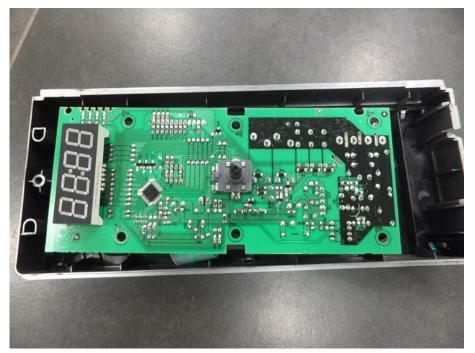
Magnetron Front View



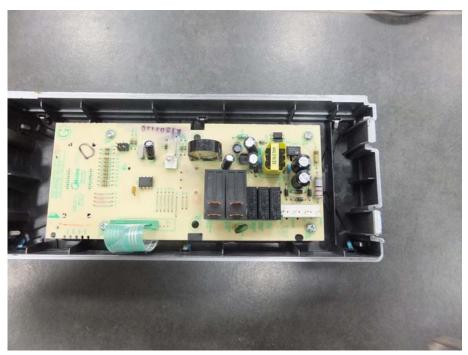
Power Filter Board Top View



Power Filter Board Bottom View



Mother board Top View



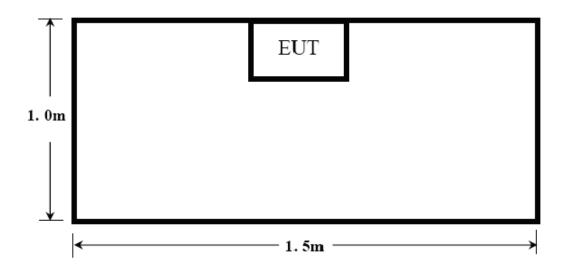
Mother board -Bottom View

Test System Details

EUT							
Model Number	: /	4 <i>M025F</i>	YY-S, AMO.	25FYY-P			
Model Tested:		AMO25F	4R-P				
Description:	/	Microwa	ve Oven				
Input:	A	AC 120V	//60Hz				
Manufacturer:	0	Guangdo	ong Midea	Kitchen Appliar	ices Mari	nufacturi	ing Co.,Ltd.
Support Equipment							
Descriptio	Description Model Number Serial Number Manufacturer						
N/A							
			Cable	Description			
Description	Description From To Length Shielded Ferrite (Meters) (Y/N) (Y/N)						
Power Cable	Ed	UT	Plug	1.2		V	N
Note:The "EUT" means "Microwave Oven".							

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.		FCC Part 18		
MODEL NUMBERS:	AM025FYY-S, AM025FYY-P	PRODUCT:	Microwave Oven		
MODEL TESTED:	AM025F4R-P	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22°C	HUMIDITY:	51%		
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	September 10 th ,2013		
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 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 0.37 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:	0.0001mW/cm ²				

Test Equipment List:

Test Equipment	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Interval	
Microwave Measurement	HOLADAY	HI-1710A	00122261	2012.10.23	2013.10.23	
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:

Sevenano ENGINEER

ECMG COMPANY NAME

COMPANY NAME

ECMG

menym REVIEWED BY: 🥝 **SENIOR ENGINEER**



Radiation Hazard Test Set-up

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18			
MODEL NUMBERS:	AM025FYY-S, AM025FYY-P	PRODUCT:	Microwave Oven			
MODEL TESTED:	AM025F4R-P	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	21°C	HUMIDITY:	69%			
ATM PRESSURE:	103.1kPa	GROUNDING:	Through AC Power Cord			
TESTED BY:	Sewen Guo	DATE OF TEST:	September 10 th ,2013			
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-5	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 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	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					

ATTACHMENT 2 - INPUT POWER MEASUREMENT

Test Data:

Input Voltage (Vac/Hz)	Input Current (Amps)	Measured Input Power(Watts)	Rated Input Power(Watts)
120.7	12.66	1455	1500

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due		
Power Meter	Ainuo	AN8726C	058704195	2013.03.14	2014.03.14		
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: Jenerano ENGINEER

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nengn REVIEWED BY:

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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:	AM025FYY-S, AM025FYY-P	PRODUCT:	Microwave Oven		
MODEL TESTED:	AM025F4R-P	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22 ℃	HUMIDITY:	60%RH		
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	September 10 th ,2013		
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 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 =920.5 watts. The test results relate only to the equipment under test provided by client.				
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Electronic Technical Testing Corp (Shenzhen) test personnel.				
M. UNCERTAINTY:	± 0.3°C				

Test Result:

Initial Temp	Final Temp	Measured Times	Rated input Power
(°C)	(°C)	(s)	(W)
20.0	46.3	120	920.5

Note : RF Output Power (W) = $4.2 \times 1000 \times (Final Temp - Initial Temp) / 120 = 920.5 \text{ watts}$

calibrated and traceable to the National Institute of Standards and Technology (NIST).

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due	
<i>Digit Thermometer</i>	Fluke Corporation	Fluke 51 II	87500204	2013.04.07	2014.04.07	
Stopwatch	CASIO	HS-3	312Q01	2012.10.10	2013.10.10	
Note: All testing were performed using internationally recognized standards. All test instruments were						

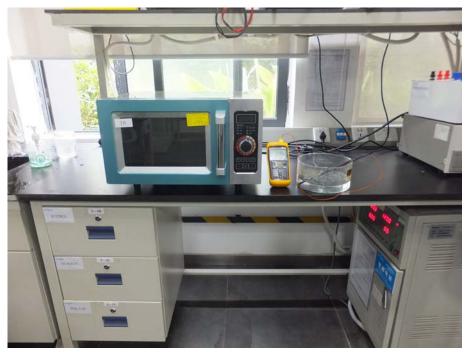
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REVIEWED BY:

SENIOR ENGINEER

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RF Output Power Test Set-Up

ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

ir					
CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	AM025FYY-S, AM025FYY-P	PRODUCT:	Microwave Oven		
MODEL TESTED:	AM025F4R-P	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:	September 13 th ,2013		
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 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)		
2448.9	2449.8		

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2447.8	2448.6
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	11/18/2012	11/17/2013
Horn Antenna	R&S	HF906	100311	11/20/2012	11/21/2013

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: Sever Gues ENGINEER

ECMG **COMPANY NAME**

REVIEWED BY:

SENIOR ENGINEER

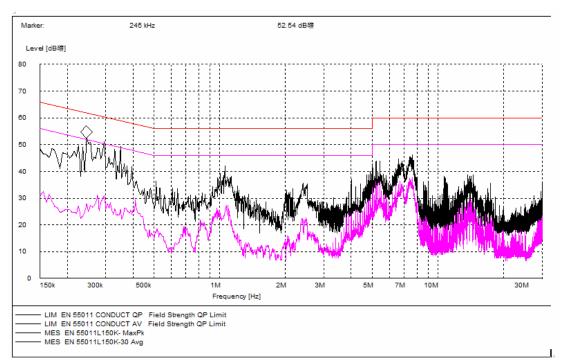
ECMG COMPANY NAME



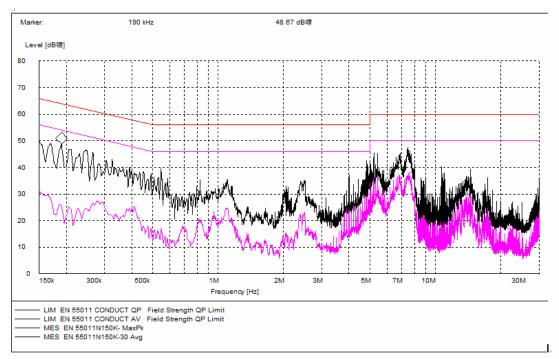
Operating Frequency Test Set-up

ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	AM025FYY-S, AM025FYY-P	PRODUCT:	Microwave Oven		
MODEL TESTED:	AM025F4R-P	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22°C	HUMIDITY:	67%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	September 13 th ,2013		
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-5:1986				
TEST PROCEDURE:	The EUT was set up according to the guideline of ANSI C63.4-2009 & 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 / 60H				
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) test personnel.				
M. UNCERTAINTY:	±2.5 dB				



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	0.245	48.2	61.9	-13.7	0.245	25.2	51.9	-26.7
L	0.295	41.3	60.4	-19.1	0.295	26.7	50.4	-23.7
L	0.330	39.8	<i>59.5</i>	-19.7	0.330	22.5	49.5	-27.0
N	0.250	37.4	61.8	-24.4	0.250	26.3	51.8	-25.5
N	0.325	42.0	59.6	-17.6	0.325	19.6	49.6	-30.0
N	0.545	31.7	56.0	-24.3	0.545	18.7	46.0	-27.3

Note :

1) All readings are using a bandwidth of 9 kHz, with a 500 ms sweep time. A video filter was not use.

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	11/19/2012	11/18/2013
LISN	R&S	ESH2-Z5	100091	11/19/2012	11/18/2013
Transient Limiter	Agilent	11947A	3107A03648	11/19/2012	11/18/2013
Shielding Room	TDK	8m×4m×3m	N/A	04/17/2013	04/16/2014

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:

Jeneran ENGINEER

ECMG COMPANY NAME

REVIEWED BY:

SENIOR ENGINEER

ECMG COMPANY NAME

FCC Test Report #: GUA-1308-11038-FCC Prepared for Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd. Prepared by ECMG Electronic Technical Testing Corp (Shenzhen).

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Conducted Emission Test Set-up

		1			
CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	AM025FYY-S, AM025FYY-P	PRODUCT:	Microwave Oven		
MODEL TESTED:	AM025F4R-P	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22 °C	HUMIDITY:	67%RH		
ATM PRESSURE:	103.0kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	September 13 th ,2013		
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-5:1986				
TEST PROCEDURE:	The EUT was set up according to the guidelines of ANSI C63.4-2009& 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 AG = Amplifier Gain				
TESTED RANGE:	30MHz to 18GHz				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	The EUT meet 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 Electronic Technical Testing Corp (Shenzhen) test personnel.				
M. UNCERTAINTY:	± 3.2 dB				

ATTACHMENT 6 – RADIATED EMISSION TEST RESULTS

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]	Factor (dB)	Field Strength [dBµV/m]	Delta, QP [dB]	3 Meters Limits [dBµV/m]
47.495	V	25.8	10.5	36.3	-34.3	70.6
405.170	V	15	15.4	30.4	-40.2	70.6
449.880	V	17.5	16.2	33.7	-36.9	70.6
278.818	Н	18.9	13.2	32.1	-38.5	70.6
325.471	Н	19.3	13.1	32.4	-38.2	70.6
722.024	Н	10.5	23.0	33.5	-37.1	70.6

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.

1*GHz – 18GHz*

Frequency [GHz]	Antenna Polarization [V/H]	Corrected Reading [dBµV/m]	Factor (dB)	Field Strength [dBµV/m]	Delta, AV [dB]	3 Meters Limits [dBµV/m]
8.321	V	31.36	22.24	53.6	-17.0	70.6
8.591	V	28.75	22.45	51.2	-19.4	70.6
14.784	V	15.84	35.86	51.7	-18.9	70.6
7.359	Н	23.1	21.7	44.8	-25.8	70.6
9.824	Н	18.98	27.32	46.3	-24.3	70.6
14.723	Н	17.54	35.86	53.4	-17.2	70.6

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:

Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
R&S	ESIB-26	100174	11/19/2012	11/18/2013
R&S	HF906	100311	11/21/2012	11/20/2013
TDK	HLP-3003C	130144	11/21/2012	11/20/2013
ETS	ETS-6152	24934	11/21/2012	11/20/2013
TDK	9m×6 m×5.7m	N/A	04/17/2013	04/16/2014
	R&S R&S TDK ETS	R&S ESIB-26 R&S HF906 TDK HLP-3003C ETS ETS-6152 TDK 9m×6	R&S ESIB-26 100174 R&S HF906 100311 TDK HLP-3003C 130144 ETS ETS-6152 24934 TDK 9m×6 N/A	R&S ESIB-26 100174 11/19/2012 R&S HF906 100311 11/21/2012 TDK HLP-3003C 130144 11/21/2012 ETS ETS-6152 24934 11/21/2012 TDK 9m×6 N/A 04/17/2013

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

TESTED BY:

Jener Gue ENGINEER

ECMG COMPANY NAME

REVIEWED BY:

SENIOR ENGINEER

ECMG COMPANY NAME



Radiated Emission Test Set-up (30 -1,000MHz)



Radiated Emission Test Set-up (1-18GHz)