

EMI TEST REPORT

On Model Name: Mic	rowave Oven	
Model Numbers: XM	1159KYY	
Brand Name: Mide	a	
FCC ID Number: VG	8EM159KZ3	
Prepared for Guangdo Manufacturing Co.,Ltd	•	hen Appliances
According to FCC Part 18(2014) Industrial, Scientific and Medical Ed FCC/OST MP-5(1986) FCC methods of measurements of reindustrial, scientific and medical eq	o) adio noise emission from	
Test Report #: GUA-1504	-11304-FCC	
Prepared by: Twis	<u>.</u>	<u>ECMG</u>
ViVi Huang, المركب	/Assistant	Company Name
Reviewed by:	-	<u>ECMG</u>
Jawen Yin/S	enior Engineer	Company Name
QC Manager: Swall Zhang Swall Zhana	↓ /QC Manager	<u>ECMG</u> Company Name
Test Report Released by:	Swell Zhang	May 28 th , 2015
	Swall Zhang	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	VG8EM159KZ3 _Test Report.pdf
Operation Description	Technical Description	VG8EM159KZ3 _Operation Description.pdf
External Photos	External Photos	VG8EM159KZ3 _External Photos.pdf
Internal Photos	Internal Photos	VG8EM159KZ3 _Internal Photos.pdf
Block Diagram	Block Diagram	VG8EM159KZ3 _Block Diagram.pdf
Schematics	Circuit Diagram	VG8EM159KZ3 _Schematics.pdf
ID Label/Location	Label and Location	VG8EM159KZ3 _Label & Location.pdf
User Manual	User Manual	VG8EM159KZ3 _User's Manual.pdf
Test set-up photos	Test set-up photos	VG8EM159KZ3 _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 : XM159KYY

Model Tested : EM159KZ3

Brand Name : Midea

Receipt Date : April 10th, 2015

Date Tested : April 24th, 2015 & May 25th, 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 EM159KZ3 (referred to as the EUT in this report) is a Microwave Oven.

The EUT is a Microwave Oven with bluetooth function(BLE 4.0) and technical specifications of EUT are as belows:

Teerninean specifications of Lo	
Power Supply	120V AC/60Hz
Rated Input Power (Microwave)	1650W
Rated Output Power (Microwave)	1050W
Frequency	2450 MHz(Class B/Group 2)
Magnetron Model	2M392J
Magnetron Manufacturer	WITOL
Bluetooth version	V4.0
Class of Bluetooth Radio	Class 2(range of 10 meters)
Modulation of bluetooth	GFSK
FCC ID number of bluetooth	ZKJ-BLEA001

Note 1:for bluetooth please refer to report #.:150317031SZN-001 released on March 19,2015(FCC ID:ZKJ-BLEA001).

Note 2: For more detailed information or features please refer to user's manual of EUT.

EUT Model Derived

XM159KYY model designations as follows:

X = E or A:

M: indicate microwave:

159: "1" indicates the microwave output power is 1050W, "59" indicate cavity capacity is 59 liters;

K: indicate the design No.;

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

Model EM159KZ3 was selected for the final testing.

Test Summary

The electromagnetic compatibility requirements on model EM159KZ3 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 18:2014 FCC/OST MP-5:1986 ANSI C63.4-2009	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1	
FCC Part 18:2014 FCC/OST MP-5:1986 ANSI C63.4-2009	Input Power Measurement	Passed	AC Input Port	Attachment 2	
FCC Part 18:2014 FCC/OST MP-5:1986 ANSI C63.4-2009	RF Output power Measurement	Passed	EUT	Attachment 3	
FCC Part 18:2014 FCC/OST MP-5:1986 ANSI C63.4-2009	Operating Frequency Measurement	Passed	EUT	Attachment 4	
FCC Part 18:2014 FCC/OST MP-5:1986 ANSI C63.4-2009	Conducted Emission	Passed	AC Input Port	Attachment 5	
FCC Part 18:2014 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: 1050 milliliters of water in the beaker located in the center of the oven.
- -Load for frequency measurement: 1050 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 735 and the other of 315 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: 735 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 EM159KZ3



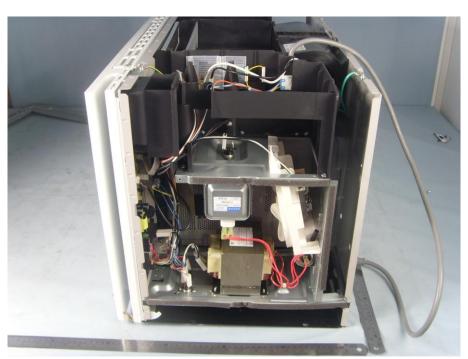
EUT Front View



EUT Back View



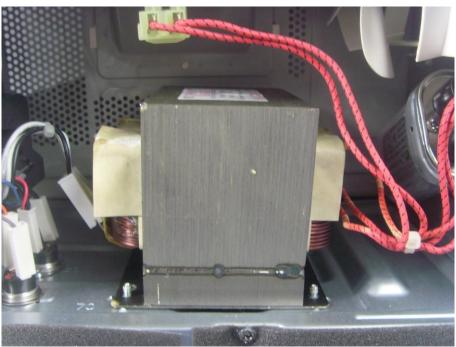
Door Opend View



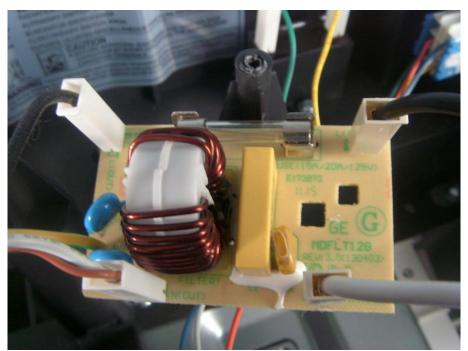
EUT Uncovered View



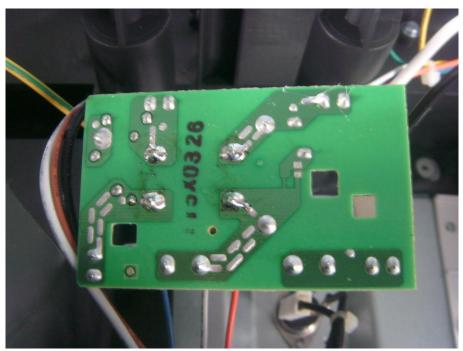
Magnetron Front View



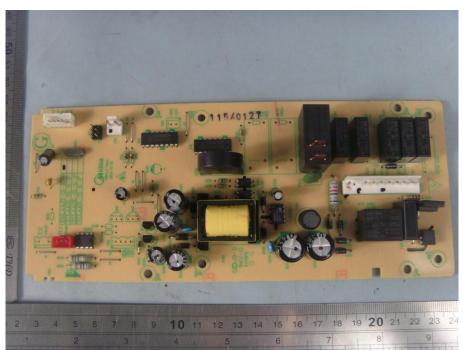
High-voltage Transformer View



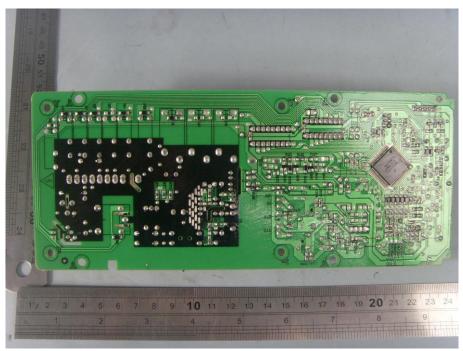
Power Filter Board- Top View



Power Filter Board- Bottom View



Mother board- Top View



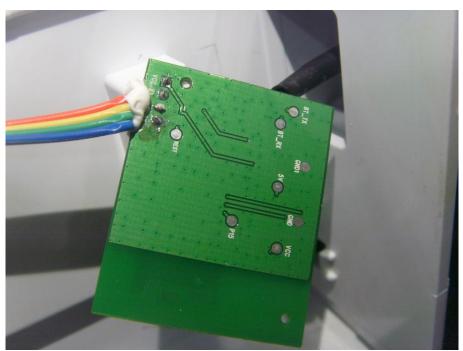
Mother board- Bottom View



Bluetooth Module view



Top view of PCB



Bottom view of PCB

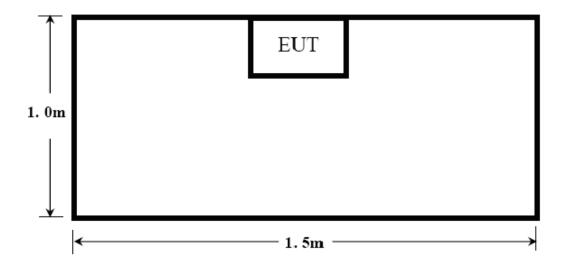
Test System Details

EUT							
Model Number	: X	(M159K)	Υ				
Model Tested:	E	M159KZ	<i>".</i> 3				
Description:	٨	1icrowav	re Oven				
Input:	A	C 120V,	/60Hz				
Manufacturer:	(Guangdo	ng Midea K	itchen Appliance	s Manut	facturing	Co.,Ltd.
	·		Suppoi	rt Equipment			
Descriptio	n	Model Number Serial Number Manufacturer					
				N/A			
			Cable	Description			
Description	Fre	от	То	Length (Meters)		lded /N)	Ferrite (Y/N)
Power Cable	EU	EUT Plug 1.2 N 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.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM159KYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM159KZ3	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	23°C	HUMIDITY:	51%		
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Dong mei Yang	DATE OF TEST:	May 25 th , 2015		
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 735ml 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 0.05mW/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 ²				

Test Equipment List:

Test Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Microwave Measurement	HOLADAY	HI-1710A	00022150	2015.11.09

TESTED BY:

REVIEWED BY:

SENIOR ENGINEER

REVIEWED BY:

ATTACHMENT 2 - INPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM159KYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM159KZ3	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	59%		
ATM PRESSURE:	103.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Dong mei Yang	DATE OF TEST:	May 25 th , 2015		
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 735ml 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 (V)	Input Current (A)	Measured Input Power (W)	Rated input Power (W)
120.7	14.31	1675	1650

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Power Meter	Ainuo	AN8726C	058704200	2016.02.06

TESTED BY:

杨冬朽

ENGINEER

REVIEWED BY:

SENIOR ENGINEER

ATTACHMENT 3 - RF OUTPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM159KYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM159KZ3	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Dong mei Yang	DATE OF TEST:	May 25 th , 2015		
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MF	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 1050ml 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 × 1050 × (Final Temp - Initial Temp) / 120				
TESTED RANGE:	N/A				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	RF Output Power =874.0 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℃				

Test Result:

Initial Temp (で)	Final Temp (で)	Measured Times (s)	Measured output Power (W)
20	42.7	120s	834.2

RF Output Power (W) = $4.2 \times 1050 \times (Final\ Temp - Initial\ Temp) / 120$

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Digit Thermometer	Fluke Corporation	Fluke 51 II	87500204	2016.03.26
Stopwatch	CASIO	HS-3	05Q07R	2015.08.06

TESTED BY:

杨冬朽

ENGINEER

REVIEWED BY:

SENIOR ENGINEER

ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd. TEST STANDERD:		FCC Part 18		
MODEL NUMBERS:	XM159KYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM159KZ3	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Dong mei Yang	DATE OF TEST:	May 25 th , 2015		
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-	5:1986			
TEST PROCEDURE:	The EUT was set up according to Frequency Measurement. 1) The variation of frequency with using a spectrum analyzer. Startin water load in a beaker was located analyzer with antenna at 3 meters operated at maximum output power monitored until the water load was 2) The variation of frequency with measured using a spectrum analysminutes of use with a 1050ml water the test. Then the operating frequency varied between 80 and 125 percertages.	time. The operating frequency with the EUT at room tend in the center of the oven distance form the oven alter. The fundamental operation reduced to 20 percent of Line Voltage. The operation of the EUT was operated to a troom temperature of the EUT was monitored as the	ency was measured mperature, a 1050ml. Set a spectrum and the oven was ating frequency was the original load. In the sed/warmed by at least 10 are at the beginning of		
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)	
2460.1	2467.7	

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)			
2444.9	2469.9			
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	11/18/2014	11/17/2015
Horn Antenna	R&S	HF906	100311	11/20/2014	11/21/2015

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
TESTED BY:	杨个43	REVIEWED BY:	Samentino



ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Co.,Ltd. MODEL NUMBERS: XM159KYY		FCC Part 18		
MODEL NUMBERS:			Microwave Oven		
MODEL TESTED:			Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Dong mei Yang	DATE OF TEST:	April 24 th , 2015		
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 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. 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				

Conducted Emission Test Set up: Non-conductive table Rear of EUT to be flushed with rear of table top EUT 40 cm tc Receiver ground plane 50Ω RF Cable 3b) AMN (LISN) 3c) 40 cm to vertical Bonded to horizontal

AMN = Artificial mains network (LISN)

reference plane

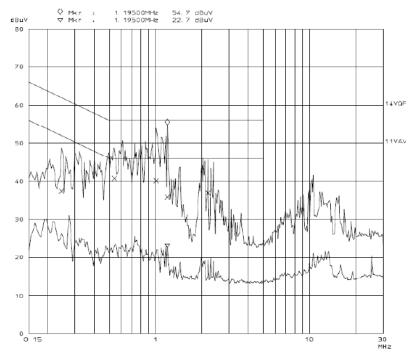
AE = Associated equipment

ground plane

EUT = Equipment under test

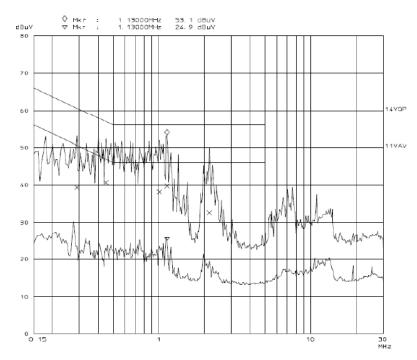
ISN = Impedance stabilization network

L PK+ AV Scan Curve:



Line L Conducted Emission Graph

N PK+ AV Scan Curve



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	37.3	61.8	-24.5	/	/	/	/
L	1.540	40.6	56	-15.4	/	/	/	/
L	2.190	36.9	56	-19.1	/	/	/	/
N	0.450	40.5	56.9	-16.4	/	/	/	/
N	1.010	38.1	56	-17.9	/	/	/	/
N	1.130	39.6	56	-16.4	/	/	/	/

Note:

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

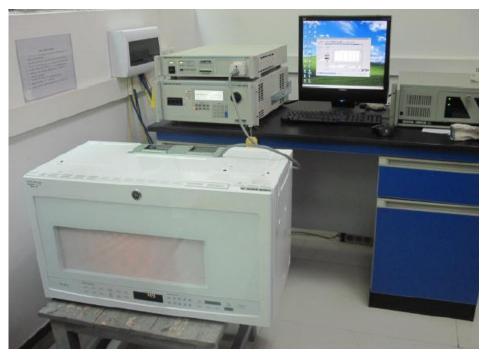
Test Equipments List:

Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due
EMI Test Receiver	R&S	ESC30	100267	2015-2-10	2016-2-9
LISN	SCHNANER	NNB42	00003	2015-2-10	2016-2-9
Transient Limiter	Agilent	11947A	3107A03648	11/19/2014	11/18/2015
Shielding Room	TDK	8m×4m×3m	N/A	04/17/2014	04/16/2015

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).

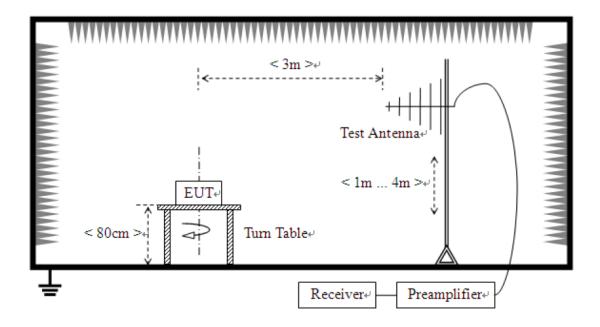
TESTED BY: _	FNGINFFR	REVIEWED BY: _	SENIOR ENGINEER
TECTED DV	杨冬村	REVIEWED BY:	Samentino

Conducted Emission Test Set-up:

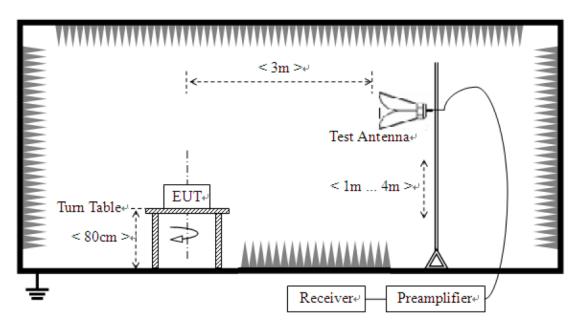


ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18
MODEL NUMBERS:	XM159KYY	PRODUCT:	Microwave Oven
MODEL TESTED:	EM159KZ3	EUT DESIGNATION:	Home or Office
TEMPERATURE:	22℃	HUMIDITY:	63%RH
ATM PRESSURE:	103.0kPa	GROUNDING:	Through AC Power Cord
TESTED BY:	Dong mei Yang	DATE OF TEST:	April 24 th , 2015
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 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 flumounted metal turntable. An EMI receiver peak scan was made at the frequency measurement range (pre-scan) in an Anechoic chamber. Signal discrimination with the performed and the significant peaks marked. All data was recorded in Quasipeak 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 enterpression factors), and the care		
TESTED RANGE:	30MHz to 24.5GHz		
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		



For radiated emissions above 1GHz



FCC Test Report #: GUA-1504-11304-FCC Prepared for Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd. Prepared by ECMG Electronic Technical Testing Corp (Shenzhen).

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]	
428.496	V	10.0	16.7	26.7	-43.3	70.2	
515.876	V	4.8	18.1	22.9	-47.3	70.2	
642.325	V	9.4	21.8	31.2	-39.0	70.2	
412.946	Н	12.3	16.3	28.6	-41.6	70.2	
426.553	Н	10.4	16.7	27.1	-43.1	70.2	
461.543	Н	10.9	16.5	27.4	-42.8	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.

1GHz - 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]
7.3587	Н	28.6	21.51	50.1	-20.4	70.2
14.7535	Н	19.36	35.34	54.7	-15.8	70.2
17.1883	Н	16.41	44.19	60.6	-10.0	70.2
8.3621	V	26.28	22.42	48.7	-19.2	70.2
14.7535	V	15.41	35.34	53.7	-16.9	70.2
17.2184	V	8.6	44.20	52.8	-17.8	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	11/19/2014	11/18/2015
Horn Antenna	R&S	HF906	100311	11/21/2014	11/20/2015
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130144	11/21/2014	11/20/2015
Loop Antenna	ETS	ETS-6152	24934	11/21/2014	11/20/2015
Anechoic Chamber	TDK	9m×6 m×5.7m	N/A	04/17/2014	04/16/2015

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:

ENGINEER

REVIEWED BY:

SENIOR ENGINEER

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





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

*** End Of Report ***