

EMI TEST REPORT

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,GuangDong, 528311, China	
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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	VG8XM044KYY-GE _Test Report.pdf
Operation Description	Technical Description	VG8XM044KYY-GE _Operation Description.pdf
External Photos	External Photos	VG8XM044KYY-GE _External Photos.pdf
Internal Photos	Internal Photos	VG8XM044KYY-GE _Internal Photos.pdf
Block Diagram	Block Diagram	VG8XM044KYY-GE _Block Diagram.pdf
Schematics	Circuit Diagram	VG8XM044KYY-GE _Schematics.pdf
ID Label/Location	Label and Location	VG8XM044KYY-GE _Label & Location.pdf
User Manual	User Manual	VG8XM044KYY-GE _User's Manual.pdf
Test set-up photos	Test set-up photos	VG8XM044KYY-GE _Test Set-up Photos

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Reproduction Clause

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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

: Microwave Oven
: XM044KYY-GE
: EM044KZ1-GE
Midea
: December 4 th , 2015
: December 7 th , 2015
: Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.
No.6, Yong An Road, Beijiao, Shunde, Foshan.
: (86)-757-23606480
: (86)-757-22607341
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EUT Description

Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd. model tested EM044KZ1-GE (referred to as the EUT in this report) is a Microwave Oven.

Power Supply	120V AC/60Hz
Rated Input Power (Microwave)	1550W
Rated Output Power (Microwave)	1000W
Frequency	2450 MHz(Class B/Group 2)
Magnetron Model	2М319Ј
Magnetron Manufacturer	WITOL

The technical specifications of EUT are as below:

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

EUT Model Derived

XM044KYY-GE model designations as follows:
X= E or A ;
M: Indicate Microwave;
044: "0" indicate the microwave output power is 1000W, "44" indicate cavity capacity is 44 liters;
K: Indicate the design No.;
YY= 0-9 or A-Z, indicate different appearance;

Model EM044KZ1-GE was chosen for the final testing.

Test Summary

The electromagnetic compatibility requirements on model EM044KZ1-GE 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.



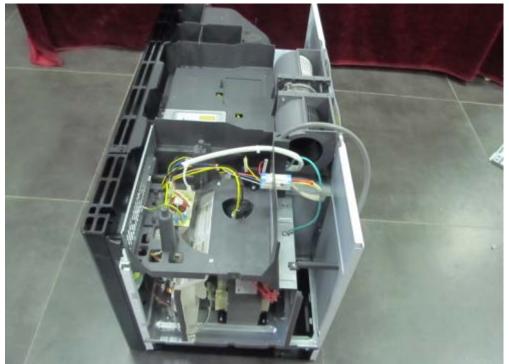
EUT Front View



EUT Back View



Door Opend View



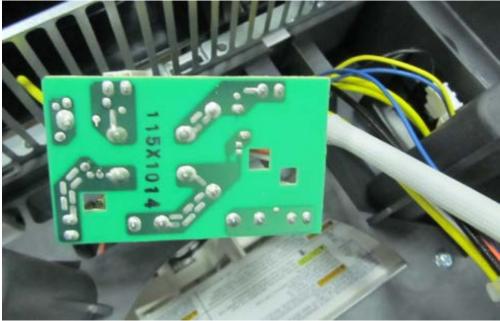
EUT Uncovered View



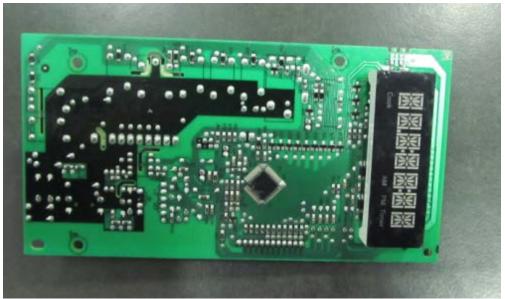
Magnetron Front View



Power Filter Board Top View



Power Filter Board Bottom View



Mother board - Top View



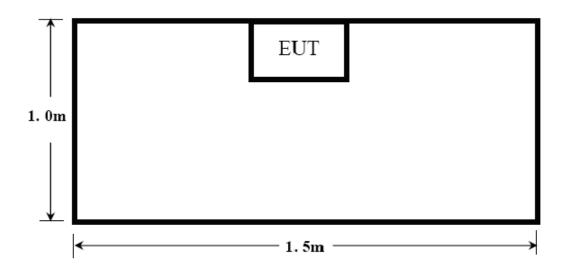
Mother board - Bottom View

Test System Details

EUT						
Model Number:	XM044	KYY-GE				
Model Tested:	EM044	KZ1-GE				
Description:	Microw	ave Oven				
Input:	AC 120	V/60Hz				
Manufacturer:	Guanga	long Midea K	itchen Applian	ces Man	ufacturi	ng Co.,Ltd.
Support Equipment						
Description	Description Model Number Serial Number Manufacturer					
N/A						
Cable Description						
Description	From	То	Length (Meters)	Shie (Y/		Ferrite (Y/N)
Power	EUT	Plug	1.2	٨	V	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.



ATTACHMENT 1 -RADIATION HAZARD TEST

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	XM044KYY-GE	PRODUCT:	Microwave Oven	
MODEL TESTED:	EM044KZ1-GE	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:	December 7 th ,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 0.04 mW/cm ² observed at any point 5cm or more from the external surface of the oven. A maximum of 1.0 mW/cm ² 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:

TESTED BY:

Test Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Microwave Measurement	HOLADAY	HI-1710A	00022150	2016.3.10

REVIEWED BY:

ENGINEER

SENIOR ENGINEER

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:	XM044KYY-GE	PRODUCT:	Microwave Oven	
MODEL TESTED:	EM044KZ1-GE	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22°C	HUMIDITY:	59%	
ATM PRESSURE:	103.1kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Yang Dongmei	DATE OF TEST:	December 7 th ,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)
120.3	13.56	1559	1550

Test Equipments List:

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

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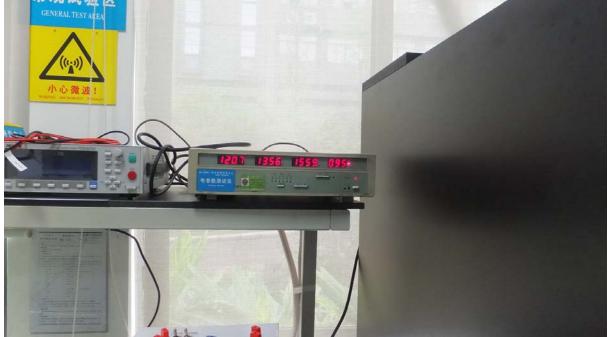
REVIEWED BY:

SENIOR ENGINEER

in

TESTED BY:

Input power Test Set up:



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ATTACHMENT 3 - RF OUTPUT POWER MEASUREMENT

	Guangdong Midea Kitchen				
CLIENT:	Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM044KYY-GE	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM044KZ1-GE	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:	December 7 th ,2015		
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST MP-5:1986				
TEST PROCEDURE:	The EUT was set up accordir power Measurement. The Ca output power. The initial temp water load in a beaker was lo operated at maximum output water was re-measured.	loric Method was used to berature of the water load cated in the center of the	determine maximum RF was measured. A 1000ml oven. The oven was		
	RF Output Power				
	= (4.2joules/calorie)(volume i	, , , , , , , , , , , , , , , , , , ,	, , , ,		
	= 4.2 joules/calorie × 1000 ×	(Final Temp - Initial Tem	o) / 120		
TESTED RANGE:	N/A				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	RF Output Power =854 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
(で)	(で)	(s)	Power(W)
20.2	44.6	1205	854.0

RF Output Power (W) = $4.2 \times 1000 \times (Final Temp - Initial Temp) / 120 = 854 \text{watts}$

Test Equipments list:

Test Equipment	ipment Manufacturer Model		Serial No.	Cal. Due Date	
Digit Thermometer	Fluke Corporation	Fluke 51 II	15940198	2016.07.17	
Stopwatch	CASIO	JS-510	CF-003	2015.10.10	

TESTED BY:

man my

ENGINEER

REVIEWED BY:

SENIOR ENGINEER

RF Output power Test Set up:



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ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM044KYY-GE	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM044KZ1-GE	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:	December 7 th ,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)	
2443.8	2445.4	

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)				
2445.4	2447.1				
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).

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TESTED BY:

REVIEWED BY:

SENIOR ENGINEER

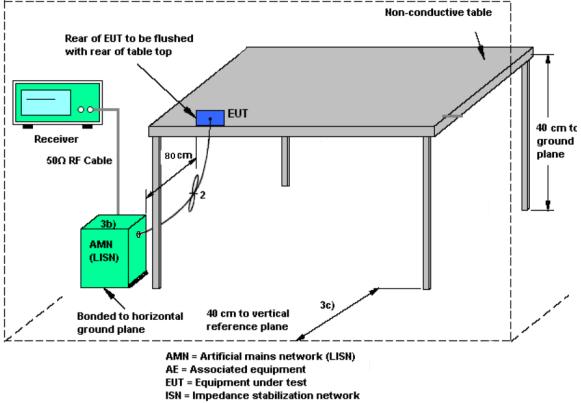
Operating Frequency Test Set-up:

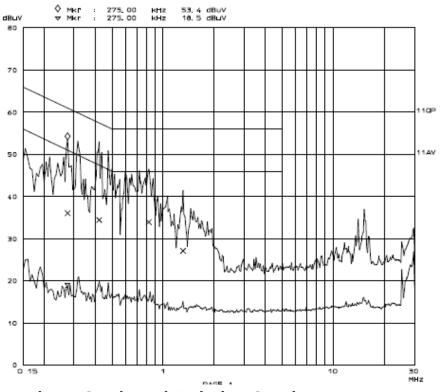


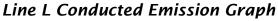
ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

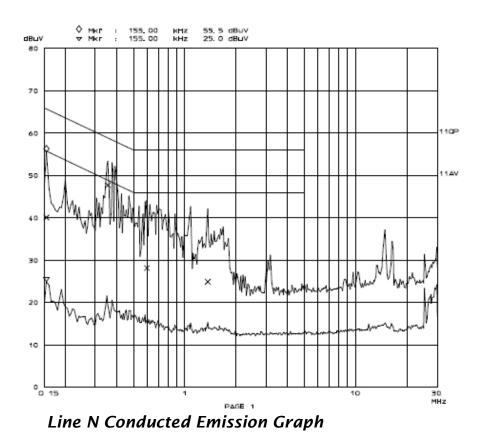
CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM044KYY-GE	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM044KZ1-GE	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22 °C	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Yang Dongmei	DATE OF TEST:	December 7 th ,2015		
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST	MP-5:1986			
TEST PROCEDURE:	The EUT was set up accordir for conducted emissions. The an EMI receiver peak scan w six highest significant peaks v 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 mese 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 installed by ECMG Electronic Technical Testing Corp (Shenzhen) test personnel.				
M. UNCERTAINTY:	±2.5 dB				











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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	0.420	34.4	57.4	-23	0.420	/	47.4	/
L	0.825	33.9	56	-22.1	0.825	/	46	/
L	1.305	27.1	56	-28.9	1.305	/	46	/
Ν	0.355	47.7	58.8	-4.9	11.1	/	48.8	/
Ν	0.600	28.1	56	-8.7	27.9	/	46	/
N	1.365	24.9	56	-14.5	31.1	/	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						

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

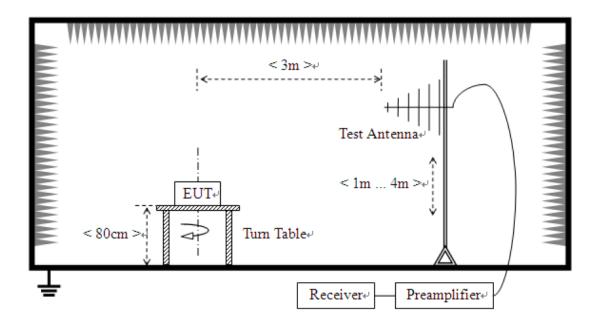
Conducted Emission Test Set-up:



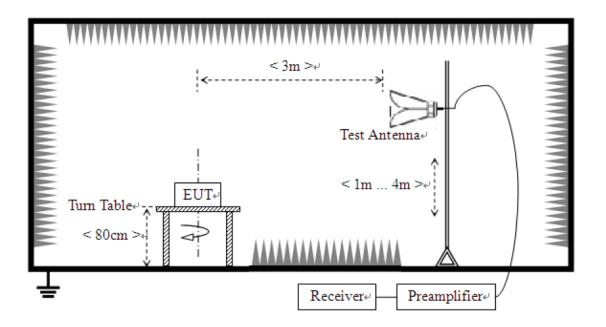
ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

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CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.		FCC Part 18		
MODEL NUMBERS:	XM044KYY-GE	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM044KZ1-GE	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:	December 7 th ,2015		
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST	MP-5:1986			
TEST PROCEDURE:	The EUT was set up accordin 5 for radiated emissions. Mic nonconductive table. The top placed on a flush mounted m made at the frequency meas Signal discrimination was the data was recorded in Quasi-p average detector mode abov The following data lists the si correction factors (including of 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 abo etal turntable. An EMI re- urement range (pre-scan in performed and the sign beak detection mode from e 1GHz. gnificant emission freque cable and antenna correct is limits. Explanation of th	I on a 1m *1.5m ve the ground. The table is ceiver peak scan was) in an Anechoic chamber. hificant peaks marked. All n 30 MHz to 1GHz and ncies, measured levels, tion factors), and the		
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 from 30MHz to1GHz



For radiated emissions above 1GHz



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]	
492.645	V	15.73	17.3	33.03	-37.27	70.3	
710.360	V	9.15	23.2	32.35	-37.95	70.3	
490.701	V	21.6	17.3	38.90	-31.4	70.3	
508.196	Н	9.87	17.8	27.67	-42.63	70.3	
267.154	Н	24.35	12.9	37.25	-33.05	70.3	
735.631	Н	8.94	23.6	32.54	-37.76	70.3	

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]
8.170	V	24.14	22.42	46.56	-23.74	70.3
14.723	V	15.66	35.86	51.52	-18.78	70.3
17.188	V	12.33	39.71	52.04	-18.26	70.3
8.351	Н	23.38	22.42	45.80	-24.50	70.3
10.395	н	18.42	28.00	46.42	-23.88	70.3
14.723	Н	16.18	35.34	51.52	-18.78	70.3

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	ТДК	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).

REVIEWED BY:

SENIOR ENGINEER

TESTED BY: ______

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



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



%%% End Of Report %%%

FCC Test Report #: GUA-1511-11384-FCCPrepared for Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.Prepared by ECMG Electronic Technical Testing Corp (Shenzhen).Page 32 of 32