

EMI TEST REPORT

On Model Name: Microwave Oven
Model Number: XC151KYY
Brand Name: Midea
Prepared for Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.
FCC ID Number: VG8XC151KYY
According to FCC Part 18(2014) 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-1410-11252-FCC
Prepared by: ECMG Nancy Han/Assistant Company Name
Reviewed by: ECMG Jawen Yin/Senior Engineer Company Name
QC Manager: ECMG Swall Zhang/QC Manager Company Name
Test Report Released by: Swall Zhang December 28th, 2014 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	VG8XC151KYY _Test Report.pdf
Operation Description	Technical Description	VG8XC151KYY_Operation Description.pdf
External Photos	External Photos	VG8XC151KYY_External Photos.pdf
Internal Photos	Internal Photos	VG8XC151KYY_Internal Photos.pdf
Block Diagram	Block Diagram	VG8XC151KYY_Block Diagram.pdf
Schematics	Schematics Circuit Diagram VG8XC151KYY_Schematics	
ID Label/Location	Label and Location	VG8XC151KYY _Label & Location.pdf
User Manual	User Manual	VG8XC151KYY _User's Manual.pdf
Test set-up photos	Test set-up photos	VG8XC151KYY _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 : XC151KYY

Model Tested : TC151K2I

Midea

Brand Name

Receipt Date : December 26th, 2014

Date Tested : Nov. 28th, 2014

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

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Telephone : (86)-757-23606480

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Prepared for Guanadona Midea Kitchen Ann

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Prepared by ECMG Electronic Technical Testing Corp (Shenzhen).

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EUT Description

Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd. model tested TC151K2I (referred to as the EUT in this report) is a Microwave Oven.

The technical specifications of EUT are as below:

The teemhoun open pertions of	
Power Supply	120V AC/60Hz
Rated Input Power (Microwave)	1650W
Rated Output Power (Microwave)	1050W
Frequency	2450 MHz(Class B/Group 2)
Magnetron Model	2М303Н
Magnetron Manufacturer	TOSHIBA

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

EUT Model Derived

XC151KYY model designations as follow:

X=E or A or T;

C: Indicate Microwave and Grill and Convection;

151: "1" indicate the microwave output power is 1050W, "51" indicate cavity capacity is 51 liters;

K: indicate the design No.;

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

Note: model of TC151K2I was chosen for the final testing.

Test Summary

The electromagnetic compatibility requirements on model TC151K2I 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 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: 1000 milliliters of water in the beaker located in the center of the oven.
- -Load for frequency measurement: 1000 milliliters of water in the beaker located in the center of the oven.
- -Load for measurement of radiation on second and third harmonic: Two loads, one of 700 and the other of 300 milliliters, of water are used. Each load is tested both with the beaker located in the center of the oven and with it in the right front corner.
- -Load for all other measurements: 700 milliliters of water, with the beaker located in the center of the oven.

Note: Since rated output power of the EUT is 1050 watts, the following load water quantity shall apply:

- -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 TC151K2I



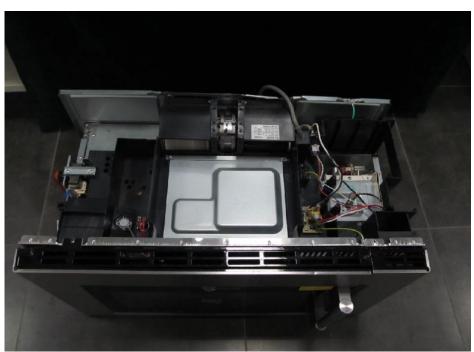
EUT Front View



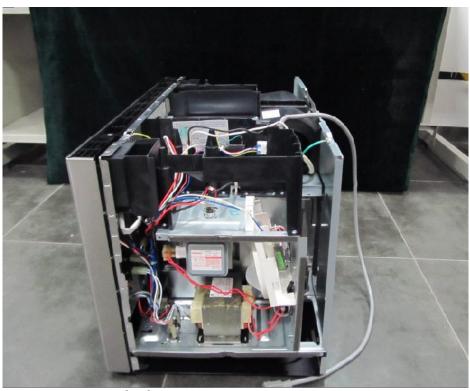
EUT Back View



Door Opend View



EUT Uncovered View #1



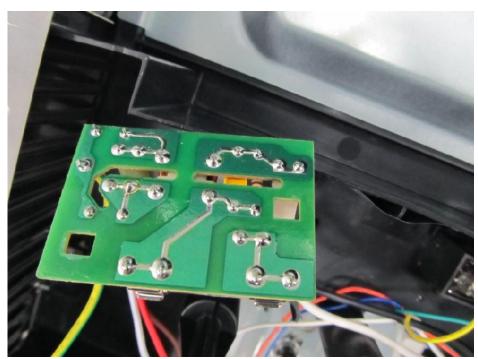
EUT Uncovered View #2



Magnetron Front View



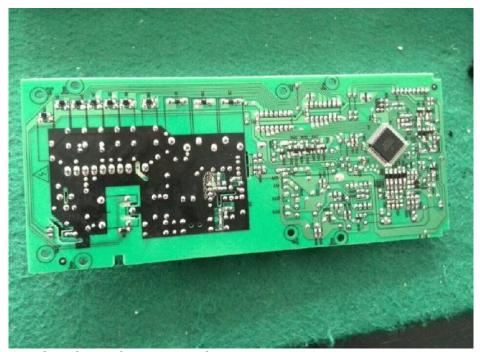
Power Filter Board Top View



Power Filter Board Bottom View



Mother board Top View



Mother board Bottom View

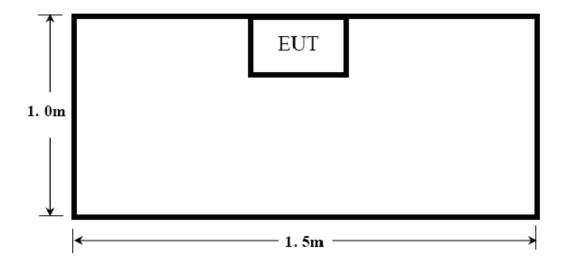
Test System Details

				EUT			
Model Number:	χ	(C151K)	ſΥ				
Model Tested:	7	C151K2	21				
Description:	٨	<i>Aicrowa</i>	ve Oven				
Input:	1	AC 120V	//60Hz				
Manufacturer:		Guangdo Co.,Ltd.	ong Guangdo	ong Midea Kitch	en Applia	inces Ma	nufacturing
			Suppor	t Equipment			
Description Model Number Serial Number Manufacture						nufacturer	
				N/A			
			Cable I	Description			
Description	Fre	от	То	Length (Meters)	Shiei (Y/		Ferrite (Y/N)
Power Cable	EU	JT	Plug	1.2	٨	ı	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:	XC151KYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	TC151K2l	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	23°C	HUMIDITY:	51%		
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	November 28 th ,2014		
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 0.02mW/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/cm2				

Test Equipment List:

Test Equipment	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Interval
Microwave Measurement	HOLADAY	HI-1710A	00052558	2014.11.09	2015.11.08

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

SIGNED BY:

ENGINEER

REVIEWED BY:

SENIOR ENGINEER



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:	XC151KYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	TC151K2I	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22°C	HUMIDITY:	59%		
ATM PRESSURE:	103.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	November 28 th ,2014		
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	Input Current	Measured Input	Rated Input
(Vac/Hz)	(amps)	Power(watts)	Power(watts)
120.0	14.02	1671	

Test Equipments List:

ENGINEER

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Power Meter	Ainuo	AN8726C	058704200	05/14/2014	05/15/2015

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).

SIGNED BY:

REVIEWED BY:

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:	XC151KYY	PRODUCT:	Microwave Oven	
MODEL TESTED:	TC151K2I	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:	November 28 th ,2014	
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 × (Fi		,	
TESTED RANGE:	N/A			
TEST VOLTAGE:	120VAC / 60Hz			
RESULTS:	RF Output Power =882 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:

Quality of Water(ml)	Starting Temperature (${\mathcal C}$)	Final Temperature (${\mathcal C}$)	Elapsed Time (Seconds)	RF Output Power(watts)
1050	22.6	46.6	1205	882

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Digit Thermometer	Fluke Corporation	Fluke 51 II	87500204	10/26/2014	10/25/2015
Stopwatch	CASIO	HS-3	511Q038	10/22/2014	10/21/2015

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).

SIGNED BY:

Jeneron

ENGINEER

REVIEWED BY:

SENIOR ENGINEER



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:	XC151KYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	TC151K2I	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	PERATURE: 22°C HUMIDITY:		60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	November 28 th ,2014		
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 1050ml 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 1050ml 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)
2452.2	2453.8

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)			
2450.6	2453.4			
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).

SIGNED BY:

ENGINEER

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:	XC151KYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	TC151K2I	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	November 28 th ,2014			
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-5:1986				
TEST PROCEDURE:	The EUT was set up according to for conducted emissions. The mea EMI receiver peak scan was made highest significant peaks were the peaked and averaged. The freque 30MHz.	asurement was using a e at the frequency meas on marked, and these si	AMN on each line and an surement range. The six gnals were then quasi-		
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)

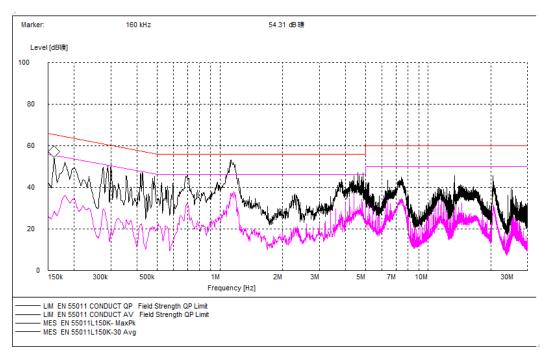
reference plane

AE = Associated equipment

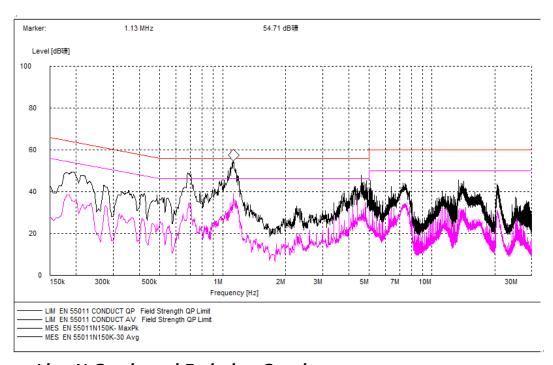
ground plane

EUT = Equipment under test

ISN = Impedance stabilization network



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	0.625	40.7	56	-15.3	0.625	25.4	46	-20.6
L	0.730	43.2	56	-12.8	0.730	27.3	46	-18.7
L	0.545	41.3	56	-14.7	0.545	28.1	46	-17.9
N	1.130	49.2	56	-6.8	1.130	32.6	46	-13.4
N	0.650	47.2	56	-8.8	0.650	32.7	46	-13.4
N	0.625	42.7	56	-13.3	0.625	28.1	46	-17.9

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	11/19/2014	11/18/2015
LISN	R&S	ESH2-Z5	100091	11/19/2014	11/18/2015
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).

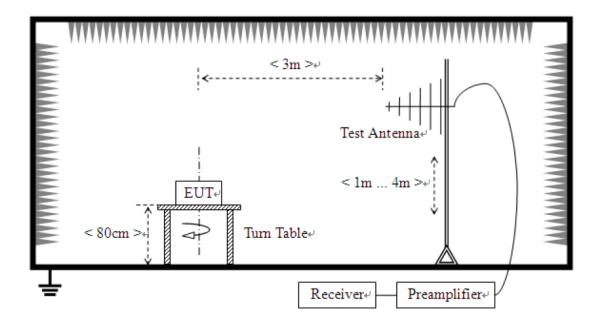
_	ENGINEER		SENIOR ENGINEER
SIGNED BY:	Jeneron	REVIEWED BY:	Samethine

Conducted Emission Test Set-up:

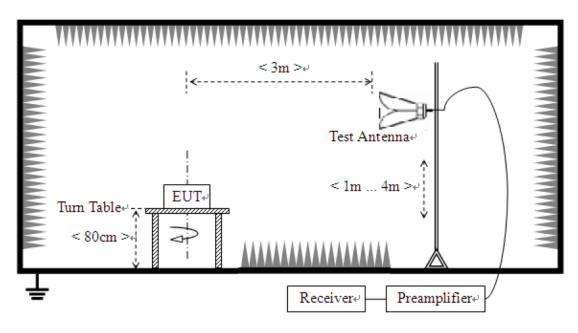


ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	XC151KYY	PRODUCT:	Microwave Oven	
MODEL TESTED:	TC151K2I	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22 ℃	HUMIDITY:	63%RH	
ATM PRESSURE:	103.0kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Sewen Guo	DATE OF TEST:	November 28 th ,2014	
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST	MP-5:1986		
TEST PROCEDURE:	ANSI C63.4-2009, FCC/OST MP-5:1986 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 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 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			
TESTED RANGE:	30MHz to 24.5GHz			
TEST VOLTAGE:	120VAC / 60Hz			
RESULTS:	The EUT meet the requireme results relate only to the equi			
CHANGES OR MODIFICATIONS:	There were no modifications (Shenzhen) test personnel.	installed by ECMG Electr	ronic Technical Testing Corp	
M. UNCERTAINTY:	± 3.2 dB			



For radiated emissions above 1GHz



FCC Test Report #: GUA-1410-11252-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]		
256.603	V	21.3	13.0	34.1	-36.3	70.4		
451.824	V	7.6	16.2	23.8	-46.6	70.4		
241.884	V	6.5	14.4	20.9	-49.5	70.4		
231.164	Н	23.8	15.3	39.1	-31.3	70.4		
222.445	Н	13.3	6.4	19.7	-50.7	70.4		
98.036	Н	8.9	9.3	18.2	-52.2	70.4		

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]		
14.8436	V	15.34	35.86	51.2	-31.8	70.4		
17.3386	V	8.51	44.19	52.7	-31.2	70.4		
9.9138	V	23.13	28.07	51.2	-19.2	70.4		
4.9535	Н	36.35	18.85	<i>55.2</i>	-15.2	70.4		
14.8036	Н	15.86	35.34	51.2	-19.2	70.4		
17.3386	Н	8.51	44.19	52.7	-17.7	70.4		

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).

SIGNED BY:

REVIEWED BY:

SENIOR ENGINEER

SENIOR ENGINEER

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



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



*** End Of Report ***