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EMI TEST REPORT

On Model Name: Microwave Oven

Model Numbers: XM159KYY,XM159KYYY

Trade Mark: Midea

FCC ID Number: VG8EM159KYY

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

According to
FCC Part 18(2016)
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-1708-11764-FCC

Prepared by: _____ *ECMG*
ViVi Huang/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: _____ *August 20th, 2017*
Swall Zhang *Date*

Verdict

Test Result :	Pass*

*:In the configuration,the EUT complied with the standard specified above.

Revision History

Rev.	Issue date	Revision	Revised by
01	03/25/2013	Initial review	Jawen Yin
02	08/20/2017	Updated Key-board	Jawen Yin

Test Location

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

Test Site Location :Guangdong CIQ Technology Center

No.3, Desheng East Road, Shunde Daliang, Foshan, Guangdong, China

Tel : (86)-757-22292731

Fax : (86)-757- 22915209

Test Facility

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

FCC 2.948 registration number: 756674

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List Attached Files

Exhibit Type	File Description	File Name
Test Report	Test Report	VG8EM159KYY _Test Report.pdf
Operation Description	Technical Description	VG8EM159KYY _Operation Description.pdf
External Photos	External Photos	VG8EM159KYY _External Photos.pdf
Internal Photos	Internal Photos	VG8EM159KYY _Internal Photos.pdf
Block Diagram	Block Diagram	VG8EM159KYY _Block Diagram.pdf
Schematics	Circuit Diagram	VG8EM159KYY _Schematics.pdf
ID Label/Location	Label and Location	VG8EM159KYY _Label & Location.pdf
User Manual	User Manual	VG8EM159KYY _User's Manual.pdf
Test set-up photos	Test set-up photos	VG8EM159KYY _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,XM159KYYY*
Model Tested	*: TM159K2I*
Brand Name	*:* Midea
Receipt Date	*: June 25th, 2017*
Date Tested	*: July 6th,2017*
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 TM159K2I (referred to as the EUT in this report) is a Microwave Oven.

The technical specifications of EUT are as below:

Power Supply	120V AC/60Hz
Rated Input Power (Microwave)	1650W
Rated Output Power (Microwave)	1100W
Frequency	2450 MHz(Class B/Group 2)
Magnetron Model	2M392J
Magnetron Manufacturer	WITOL

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

EUT Model Derived

XM159KYY,XM159KYYY model designations as follows:
X= E or A or T (Indicate Controller type);
M: Indicate Microwave;
159: "1" indicate the microwave output power is 1100W, "59" indicate cavity capacity is 59 liters;
K: Indicate the design No.;
YY/YYY= 0-9 or A-Z, indicate different appearance;
Mode XM159KYY is identical to XM159KYYY except for model number;
Model TM159K2I was chosen for the final testing.

Test Summary

The electromagnetic compatibility requirements on model TM159K2I 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 18:2016 FCC/OST MP-5:1986 ANSI C63.4-2014	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1
FCC Part 18:2016 FCC/OST MP-5:1986 ANSI C63.4-2014	Input Power Measurement	Passed	AC Input Port	Attachment 2
FCC Part 18:2016 FCC/OST MP-5:1986 ANSI C63.4-2014	RF Output power Measurement	Passed	EUT	Attachment 3
FCC Part 18:2016 FCC/OST MP-5:1986 ANSI C63.4-2014	Operating Frequency Measurement	Passed	EUT	Attachment 4
FCC Part 18:2016 FCC/OST MP-5:1986 ANSI C63.4-2014	Conducted Emission	Passed	AC Input Port	Attachment 5
FCC Part 18:2016 FCC/OST MP-5:1986 ANSI C63.4-2014	Radiated Emission	Passed	Enclosure	Attachment 6

Load for Microwave Oven

For all measurements the energy developed by the oven was absorbed by a dummy load consisting of a quantity of tag water in a beaker. If the oven was provided with a shelf or other utensil support, this support was in its initial normal position. For ovens rated at 1000watts or less power output, the beaker contained quantities of water as listed in the following subparagraphs. For ovens rated at more than 1000watts output, each quantity was increased by 50% for each 500watts or fraction thereof in excess of 1000 watts. Additional beakers were used if necessary.

-Load for power output measurement: 1000 milliliters of water in the beaker located in the center of the oven.

-Load for frequency measurement: 1000 milliliters of water in the beaker located in the center of the oven.

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

-Load for all other measurements: 700 milliliters of water, with the beaker located in the center of the oven.

EUT Exercise Software

No Test sofware support this test.

Equipment Modification

Any modifications installed previous to testing by Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd., will be incorporated in each production model sold or leased in United States.

There were no modifications installed by ECMG Electronic Technical Testing Corp (Shenzhen) test personnel.

EUT Sample Photos for Model TM159K2I

EUT Front View

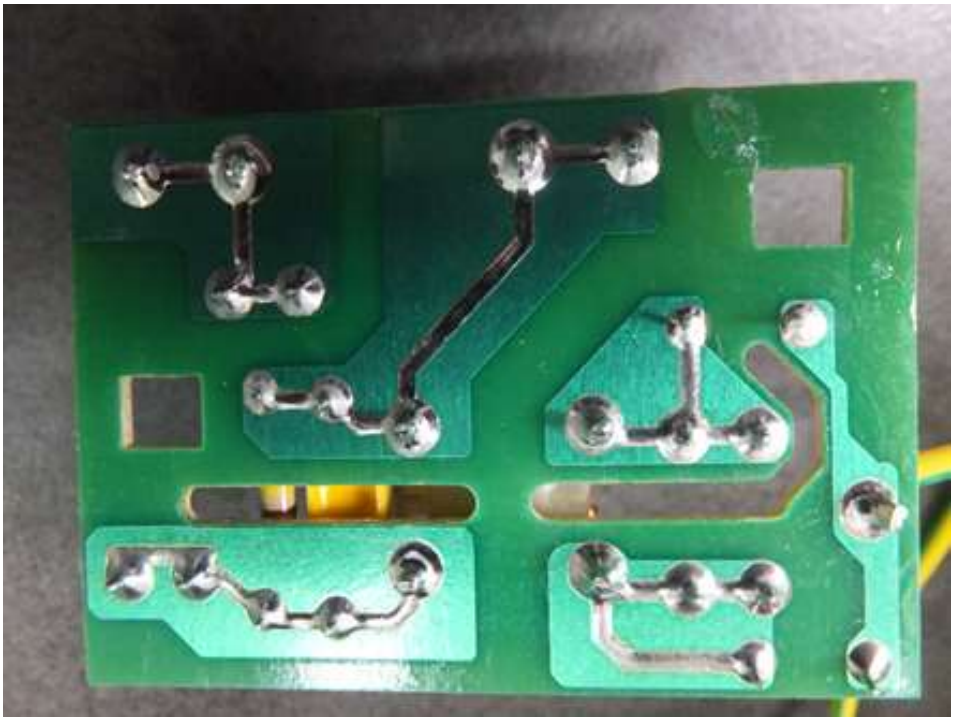
EUT Back View

Door Opend View

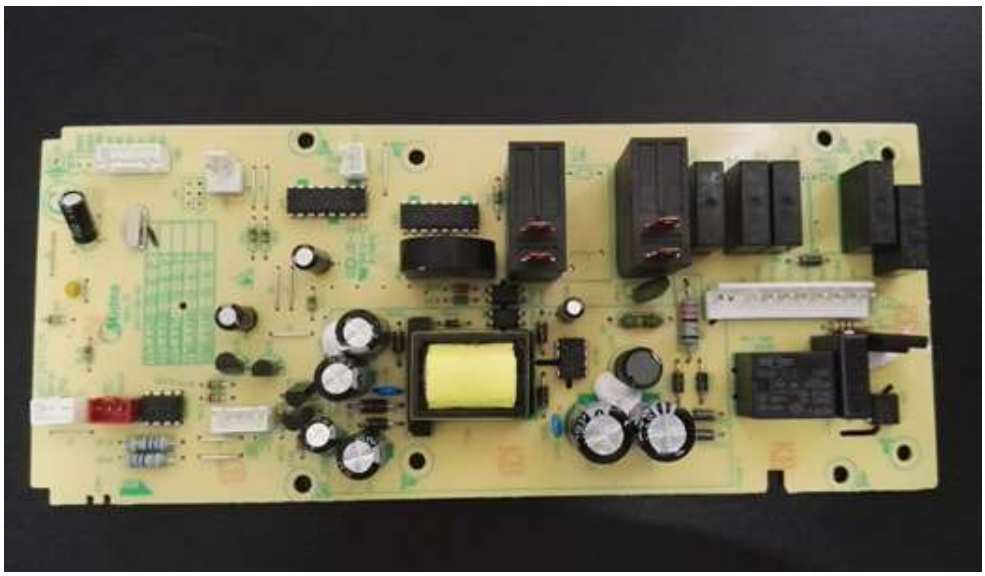
EUT Uncovered View

Magnetron Front View

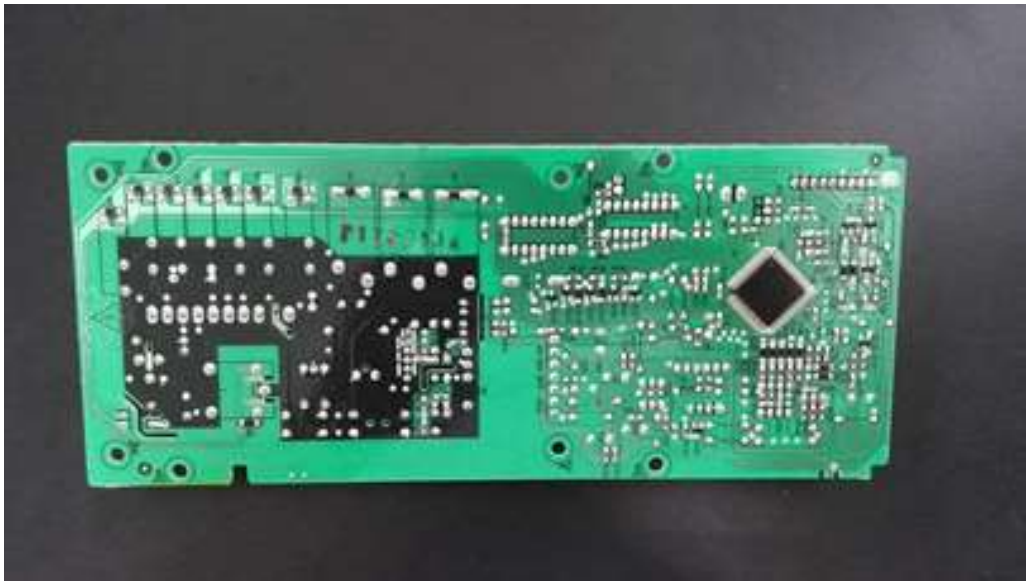
Power Filter Board Top View



Power Filter Board Bottom View

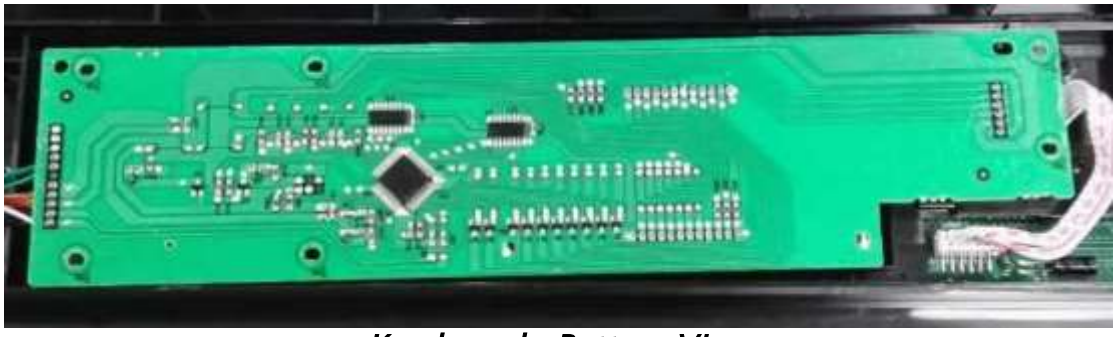


Mother board - Top View



Mother board - Bottom View

Key board - Top View



Key board - Bottom View

Test System Details

EUT	
Model Number:	XM159KYY,XM159KYYY
Model Tested:	TM159K2I
Description:	Microwave Oven
Input:	AC 120V/60Hz
Manufacturer:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.

Support Equipment			
Description	**Model Number**	**Serial Number**	**Manufacturer**
N/A			

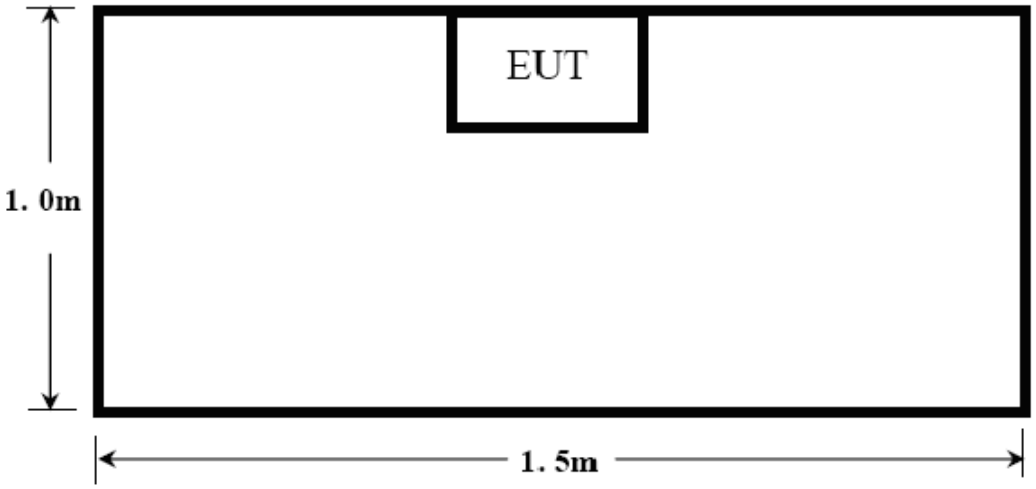
Cable Description					
Description	**From**	**To**	**Length (Meters)**	**Shielded (Y/N)**	**Ferrite (Y/N)**
Power Cable	EUT	Plug	1.2	N	N

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,XM159KYYY	**PRODUCT:**	Microwave Oven
MODEL TESTED:	TM159K2I	**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:**	July 6th,2017
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 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 770ml 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 0.06mW/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:

Test Equipment	*Manufacturer*	*Model*	*Serial No.*	*Cal. Due Date*
Microwave Measurement	*HOLADAY*	*HI-1710A*	*00022150*	*2018.1.03*

TESTED BY: _____ ***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:	XM159KYY,XM159KYYY	**PRODUCT:**	Microwave Oven
MODEL TESTED:	TM159K2I	**EUT DESIGNATION:**	Home or Office
TEMPERATURE:	22℃	**HUMIDITY:**	59%
ATM PRESSURE:	103.1kPa	**GROUNDING:**	Through AC Power Cord
TESTED BY:	Yang Dongmei	**DATE OF TEST:**	July 6th,2017
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 770ml 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)*
120.4	*13.88*	*1638*	*1650*

Test Equipments List:

Test Equipment	*Manufacturer*	*Model*	*Serial No.*	*Cal. Due Date*
Power Meter	*Ainuo*	*AN8726C*	*058704200*	*2018.01.12*

TESTED BY: _____ ***ENGINEER***

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:	XM159KYY,XM159KYYY	**PRODUCT:**	Microwave Oven
MODEL TESTED:	TM159K2I	**EUT DESIGNATION:**	Home or Office
TEMPERATURE:	22℃	**HUMIDITY:**	60%RH
ATM PRESSURE:	103kPa	**GROUNDING:**	Through AC Power Cord
TESTED BY:	Yang Dongmei	**DATE OF TEST:**	July 6th,2017
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST MP-5:1986		
TEST PROCEDURE:	The EUT was set up according to the FCC MP-5 and FCC Part 18 for RF output power Measurement. The Caloric Method was used to determine maximum RF output power. The initial temperature of the water load was measured. A 1100ml 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 × 1100 × (Final Temp - Initial Temp) / 120		
TESTED RANGE:	N/A		
TEST VOLTAGE:	120VAC / 60Hz		
RESULTS:	RF Output Power =912.5 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℃		

Test Result:

Initial Temp (℃)	*Final Temp (℃)*	*Measured Times (s)*	*Measured out put Power(W)*
20.0	*43.7*	*120S*	*912.5*

RF Output Power (W) = 4.2 x 1100 x (Final Temp – Initial Temp) / 120 =812.0watts

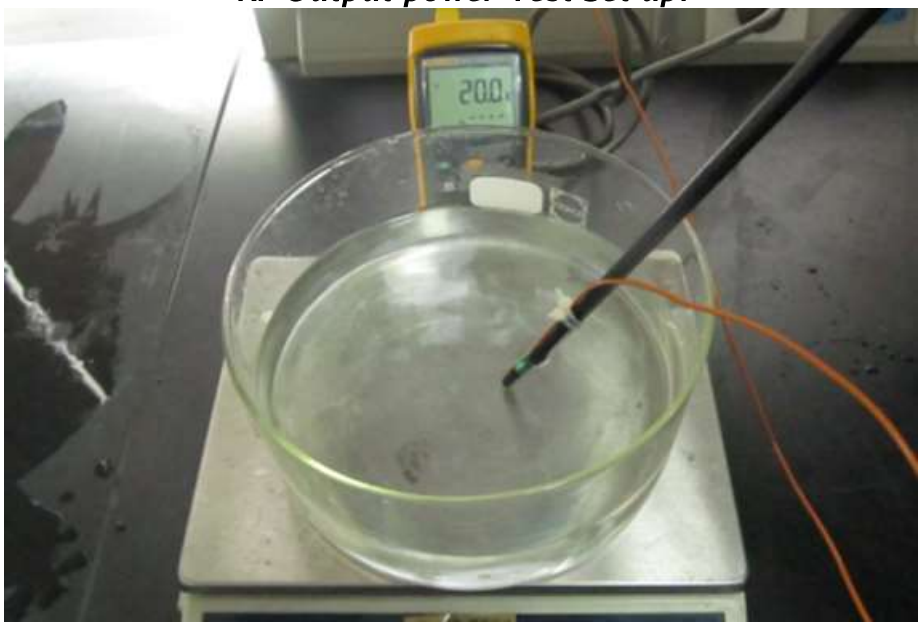
Test Equipments list:

Test Equipment	*Manufacturer*	*Model*	*Serial No.*	*Cal. Due Date*
Digit Thermometer	*Fluke Corporation*	*Fluke 51 II*	*15940197*	*2018.08.12*
Stopwatch	*JUNSD*	*JS-510*	*CF-003*	*2018.07.13*

TESTED BY: _____ ***REVIEWED BY:*** _____

ENGINEER ***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:	XM159KYY,XM159KYYY	**PRODUCT:**	Microwave Oven
MODEL TESTED:	TM159K2I	**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:**	July 6th,2017
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 1100ml 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 1100ml 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)*
2437.8	*2441.8*

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	*Maximum Frequency (MHz)*
2442.2	*2443.1*
Note: Line voltage varied from 96Vac to 150Vac.	

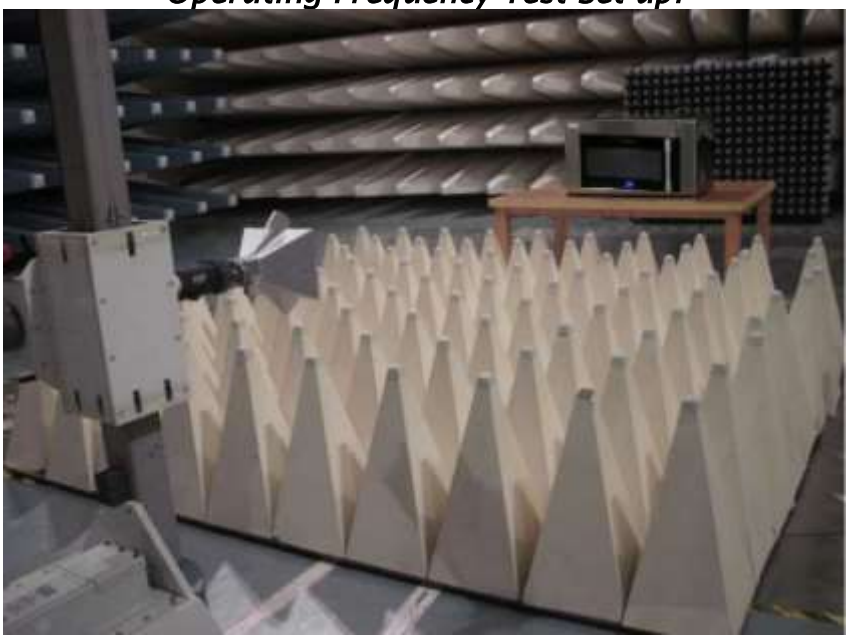
Test Equipments List:

Test Equipment	*Manufacturer*	*Model*	*Serial No.*	*Last Cal.*	*Cal. Due*
EMI Test Receiver(20Hz-	*R&S*	*ESU40*	*100298*	*08/1/2017*	*07/30/2018*
Double Ridged Horn Antenna	*R&S*	*HF907*	*100260*	*08/1/2017*	*07/30/2018*
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).					

TESTED BY: _____ ***REVIEWED BY:*** _____

ENGINEER ***SENIOR ENGINEER***

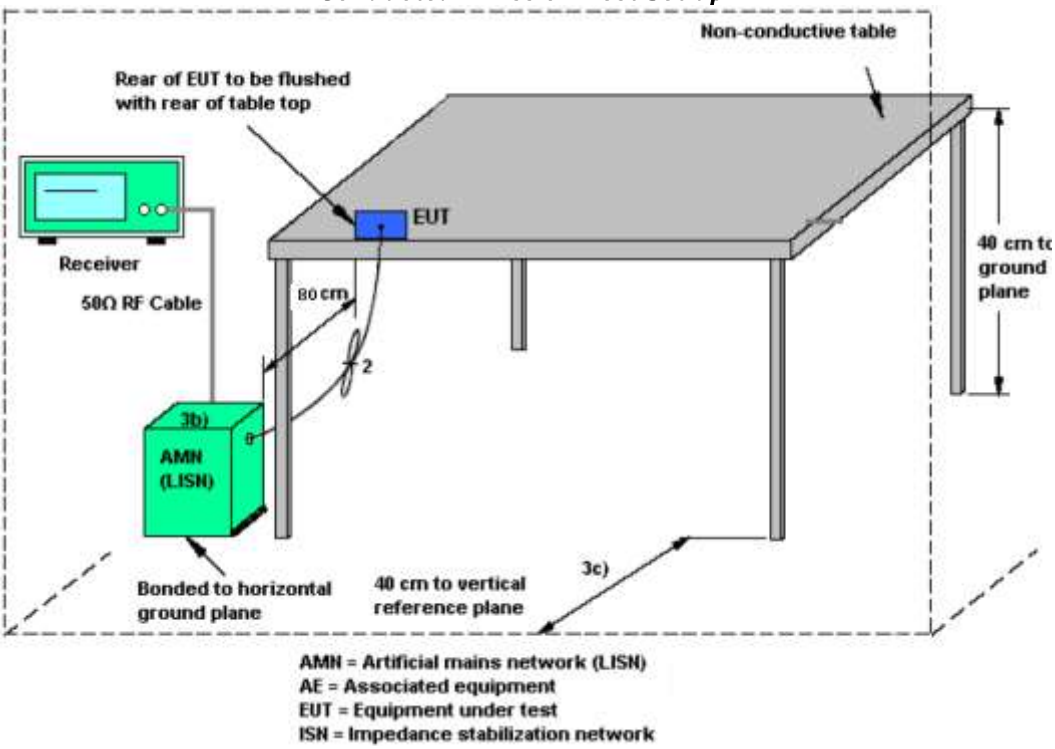
Operating Frequency Test Set-up:

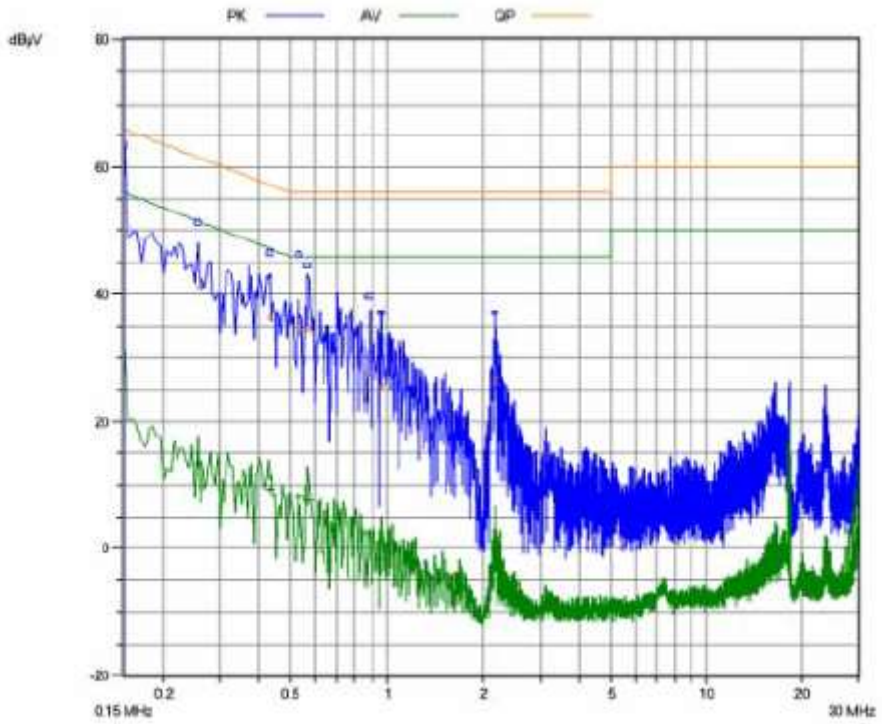


ATTACHMENT 5 – CONDUCTED EMISSION TEST RESULTS

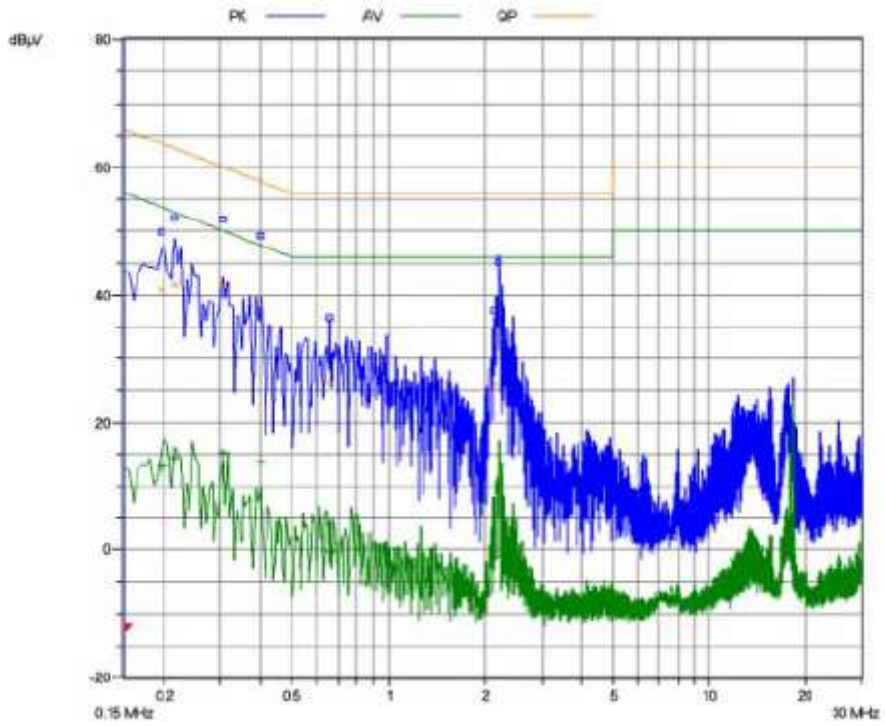
CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	**TEST STANDERD:**	FCC Part 18
MODEL NUMBERS:	XM159KYY,XM159KYYY	**PRODUCT:**	Microwave Oven
MODEL TESTED:	TM159K2I	**EUT DESIGNATION:**	Home or Office
TEMPERATURE:	22℃	**HUMIDITY:**	60%RH
ATM PRESSURE:	101.1kPa	**GROUNDING:**	Through AC Power Cord
TESTED BY:	Yang Dongmei	**DATE OF TEST:**	July 6th,2017
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST MP-5:1986		
TEST PROCEDURE:	The EUT was set up according to the guideline of ANSI C63.4-2014 & 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 / 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:	The maximum measurement uncertainty is evaluated as : 150KHz~ 30MHz: 3.0dB		

Conducted Emission Test Set up:





Line L Conducted Emission Graph



Line N Conducted Emission Graph

Test Data:

Lines (L/N)	Frequency (MHz)	Corrected QP Level (dBuV)	Limits QP (dBuV)	Over Limit QP (dB)	Frequency (MHz)	Corrected AV Level (dBuV)	Limits AV (dBuV)	Over Limit QP (dB)
L	0.150	53.5	66	-12.5	0.150	24.70	56	-31.30
L	0.830	33.3	56	-22.7	0.830	/	46	/
L	12.975	21.8	60	-38.2	12.975	/	50	/
N	0.2155	41.80	63	-21.20	0.2155	18.30	53	-34.70
N	0.985	25.5	56	-30.5	0.985	/	46	/
N	8.145	23.9	60	-36.1	8.145	/	50	/

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	SCHAFNER	SMR4503	47	08/31/2016	08/30/2017
LISN	R&S	ESH2-Z5	3385219.53-100298-HS	11/19/2016	11/18/2017
Transient Limiter	Compliance Direction Systems Inc.	PLA-10N	110525-010-0030	11/19/2016	11/18/2017
Shielding Room	Changzhou Nanping	NP-HJ2	/	01/12/2016	01/11/2018

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**

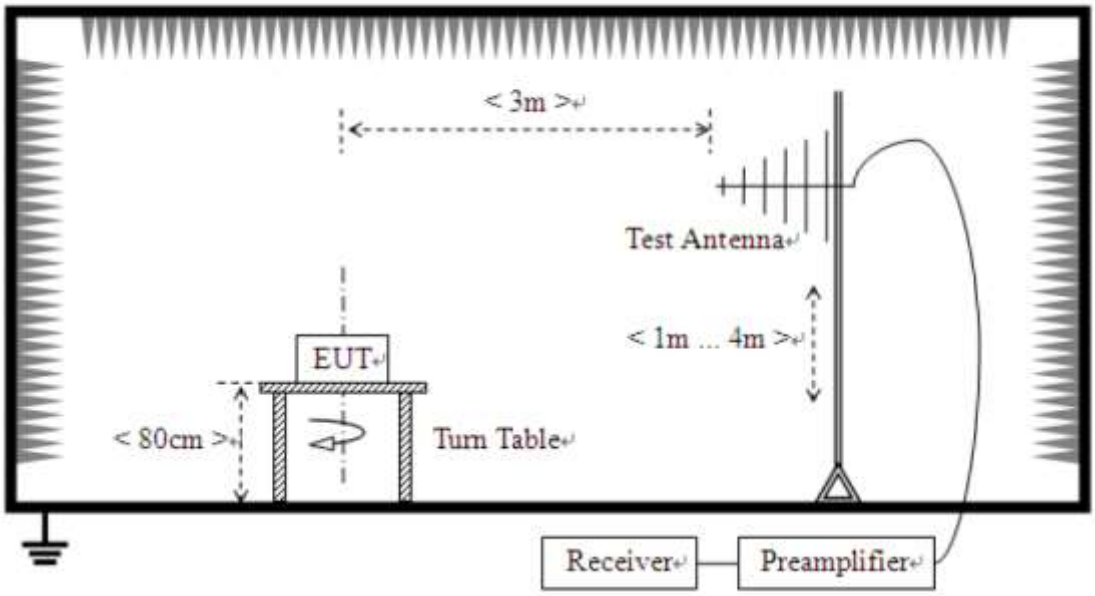
REVIEWED BY: _____ **SENIOR ENGINEER**

Conducted Emission Test Set-up:

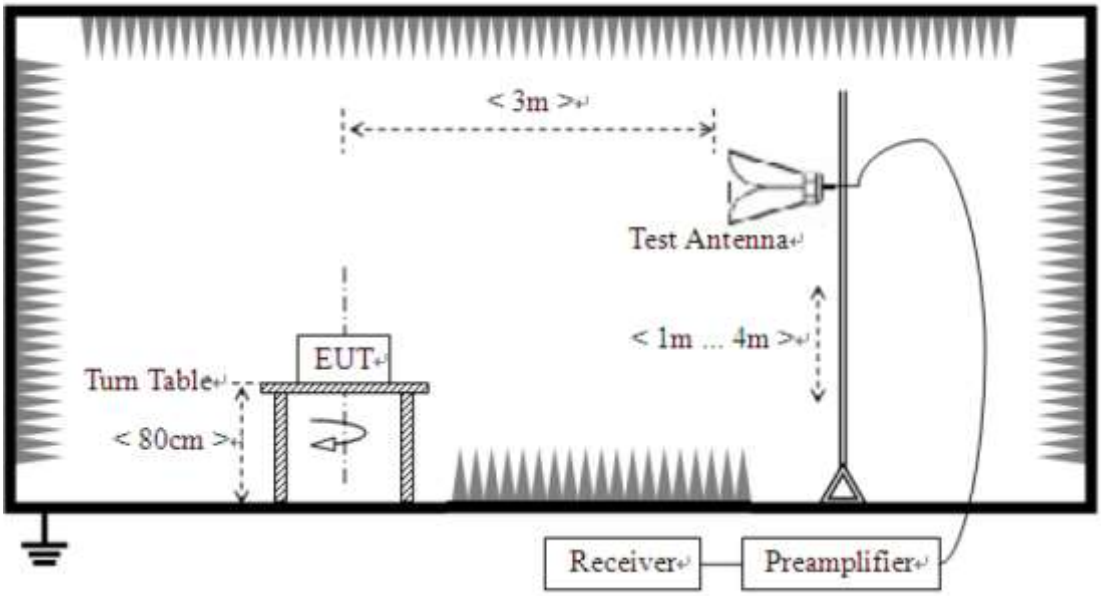
ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	**TEST STANDERD:**	FCC Part 18
MODEL NUMBERS:	XM159KYY,XM159KYYY	**PRODUCT:**	Microwave Oven
MODEL TESTED:	TM159K2I	**EUT DESIGNATION:**	Home or Office
TEMPERATURE:	22℃	**HUMIDITY:**	63%RH
ATM PRESSURE:	103.0kPa	**GROUNDING:**	Through AC Power Cord
TESTED BY:	Yang Dongmei	**DATE OF TEST:**	July 6th,2017
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST MP-5:1986		
TEST PROCEDURE:	The EUT was set up according to the guidelines of ANSI C63.4-2014& 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 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:	The maximum measurement uncertainty is evaluated as : 30~1000MHz: 4.76dB; 1~25GHz: 4.5dB		

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 to 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]
106.325	V	/	/	43.5	-27.1	70.6
162.184	V	/	/	27.4	-43.2	70.6
663.707	V	/	/	41.3	-29.3	70.6
111.643	H	/	/	45.3	-25.3	70.6
315.752	H	/	/	28.7	-41.9	70.6
667.595	H	/	/	33.7	-36.9	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 to 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]
9.9138	V	/	/	56.8	-13.8	70.6
14.8137	V	/	/	58.4	-12.2	70.6
17.3687	V	/	/	51.2	-19.4	70.6
14.7535	H	/	/	55.1	-15.5	70.6
9.9138	H	/	/	54.2	-16.4	70.6
17.3386	H	/	/	51.3	-19.3	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.						

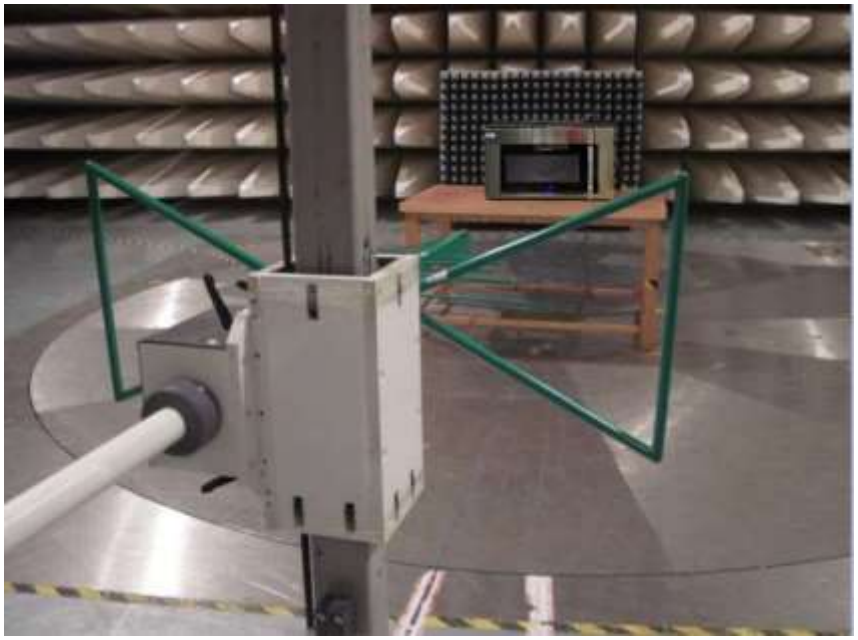
Test Equipments List:

Test Equipment	*Manufacturer*	*Model*	*Serial No.*	*Last Cal.*	*Cal. Due*
EMI Test Receiver(20Hz-40GHz)	*R&S*	*ESU40*	*100298*	*08/1/2017*	*07/30/2018*
Double Ridged Horn Antenna	*R&S*	*HF907*	*100260*	*08/1/2017*	*07/30/2018*
Bilog Antenna	*TESEQ*	*CBL6112D*	*130144*	*08/1/2017*	*07/30/2018*
10m Anechoic Chamber	*Frankonia GabH*	*SAC10*	*F069042*	*08/24/2015*	*08/23/2017*
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).					

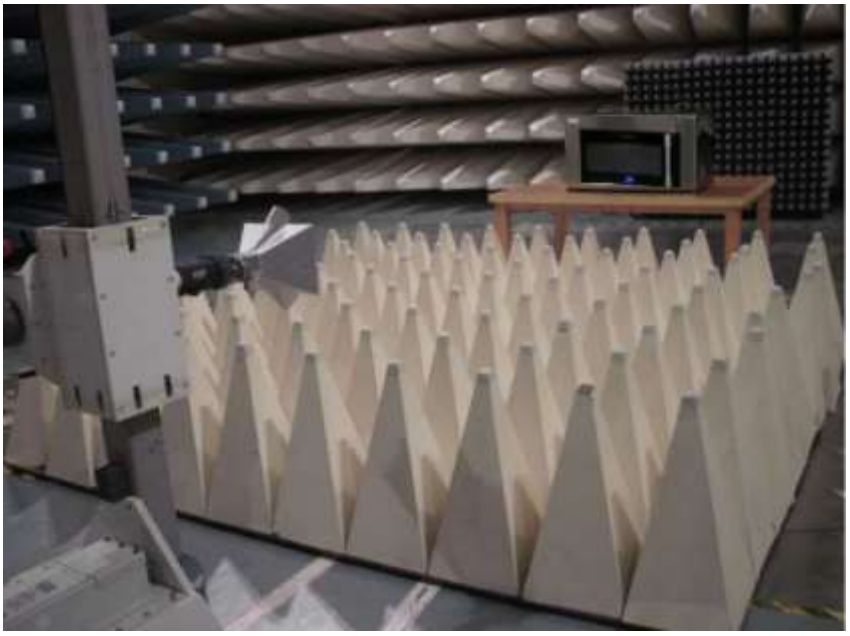
TESTED BY: _____ ***REVIEWED BY:*** _____

ENGINEER ***SENIOR ENGINEER***

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



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



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