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EMI TEST REPORT

On Model Name: Microwave Oven

Model Numbers: XM142AYY-P/S

Brand Name: Midea

FCC ID: VG8EAM142AYY

Prepared for Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd

According to

FCC Part 18(2009)
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-1104-10591-FCC
Prepared by:	Sewen Guo
Reviewed by:	Jawen Yin
QC Manager:	Swall Zhang

Test Report Released by: Swall Zhang _____ April 18, 2011

Swall Zhang Date

List Attached Files

Exhibit Type	File Description	File Name
Test Report	Test Report	VG8EAM142AYY_Test report_rev02.PDF
Operation Description	Technical Description	VG8EAM142AYY_operation description. PDF
External Photos	External Photos	VG8EAM142AYY_External Photos
Internal Photos	Internal Photos	VG8EAM142AYY_Internal Photos
Block Diagram	Block Diagram	VG8EAM142AYY__Block diagram. PDF
Schematics	Circuit Diagram	VG8EAM142AYY _Schematics. PDF
ID Label/Location	Label and Location	VG8EAM142AYY _Label & Location. PDF
User Manual	User Manual	VG8EAM142AYY _User Manual. PDF
Test setup photos	Test setup photos	VG8EAM142AYY_Test Setup Photos

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

Tel : *+86- 757-26326917*

Fax : *+86-757-26656995*

Test Facility

- *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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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	*: XM142AYY-P/S*
Model Tested	*: EM142ANW-S*
Brand Name	*:* Midea
Receipt Date	*: April 15, 2011*
Date Tested	*: April 18, 2011*
Applicant	*: Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.*
Address	*: No.6, Yong An Road, Beijiao, Shunde, Foshan. Guangdong, 528311, China.*
Manufacturer	*: Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.*
Address	*: No.6, Yong An Road, Beijiao, Shunde, Foshan. Guangdong, 528311, China.*
Factory	*: Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.*
Address	*: No.6, Yong An Road, Beijiao, Shunde, Foshan. Guangdong, 528311, China.*

EUT Description

Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.，model tested EM142ANW-S (referred to the EUT in this report) is a Microwave Oven.

Power Supply	*120V AC, 60Hz, AC Only*
Rated Input Power (Microwave)	*1550W*
Rated Output Power (Microwave)	*1100 W*
Frequency	*2450 MHz (Class B/Group 2)*
Magnetron Model	*2M319J*
Magnetron Manufacturer	*WITOL*

For more informations please refer to user's manual of EUT.

Type of Derived

XM142AYY-P/S model designations as follow:

X=E or A ;

M: indicate microwave function;

142: "1" indicate the microwave output power is 1100W, "42" indicate cavity capacity is 42 liters;

A: indicate the design No.;

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

-P/S: "-P" or "-S" indicate different material of oven cavity capacity.

***Note**: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between different appearances and materials of oven cavity capacity. the worst-case model EM142ANW-S was chosen for the final test.*

Test Summary

The electromagnetic compatibility requirements on model EM142ANW-S for this test is 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 18:2009 FCC/OST MP-5:1986 ANSI C63.4-2003	*Radiation Hazard Measurement*	*Passed*	*Enclosure*	*Attachment 1*
FCC Part 18:2009 FCC/OST MP-5:1986 ANSI C63.4-2003	*Input Power Measurement*	*Passed*	*AC Input Port*	*Attachment 2*
FCC Part 18:2009 FCC/OST MP-5:1986 ANSI C63.4-2003	*RF Output power Measurement*	*Passed*	*EUT*	*Attachment 3*
FCC Part 18:2009 FCC/OST MP-5:1986 ANSI C63.4-2003	*Operating Frequency Measurement*	*Passed*	*EUT*	*Attachment 4*
FCC Part 18:2009 FCC/OST MP-5:1986 ANSI C63.4-2003	*Conducted Emission*	*Passed*	*AC Input Port*	*Attachment 5*
FCC Part 18:2009 FCC/OST MP-5:1986 ANSI C63.4-2003	*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 power output of the EUT is 1100watts,the following load water quantity shall apply:*

-Load for power output measurement: 1100 milliliters of water in the beaker located in the center of the oven.

-Load for frequency measurement: 1100 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 770 and the other of 330 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: 770 milliliters of water, with the beaker located in the center of the oven.

Equipment Modification

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

There were no modifications installed by EMC Compliance Management Group test personnel.

EUT Sample Photos for Model EM142ANW-S

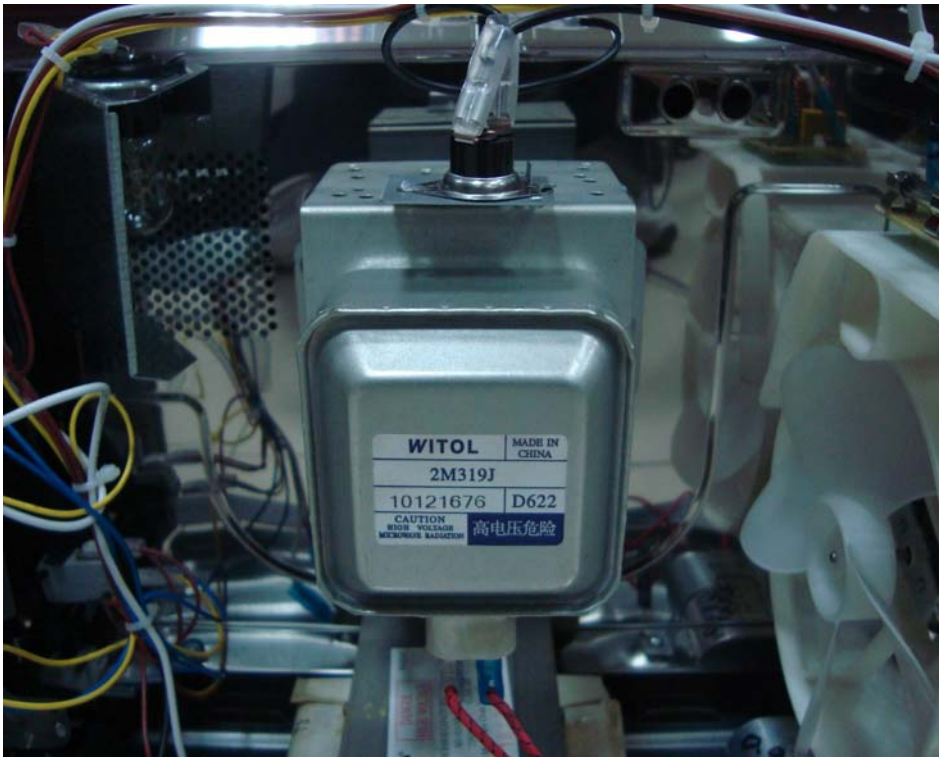
EUT Front View

EUT Rear View

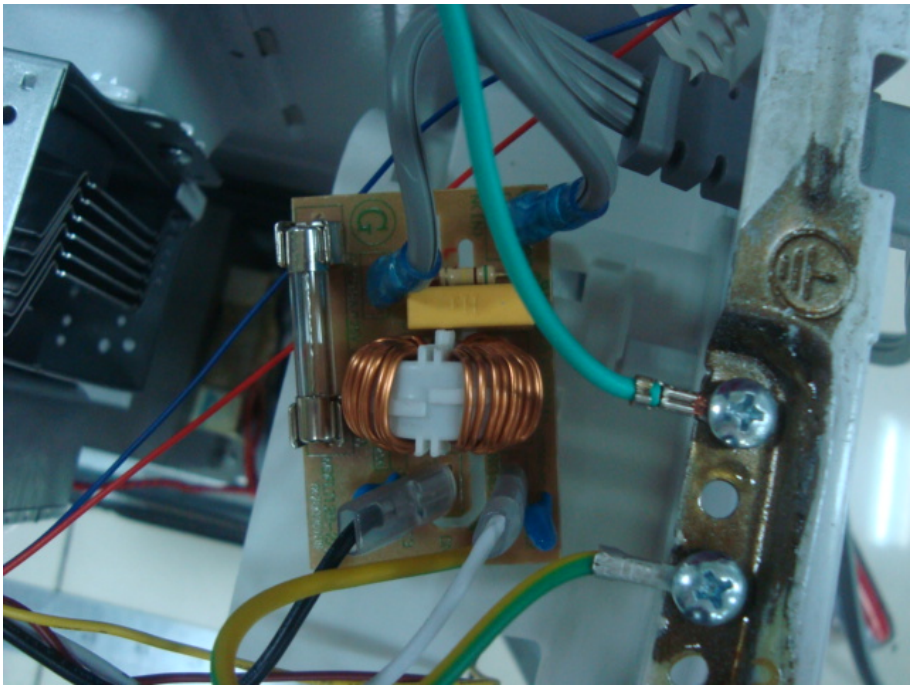
Door Opened View

EUT Inside View

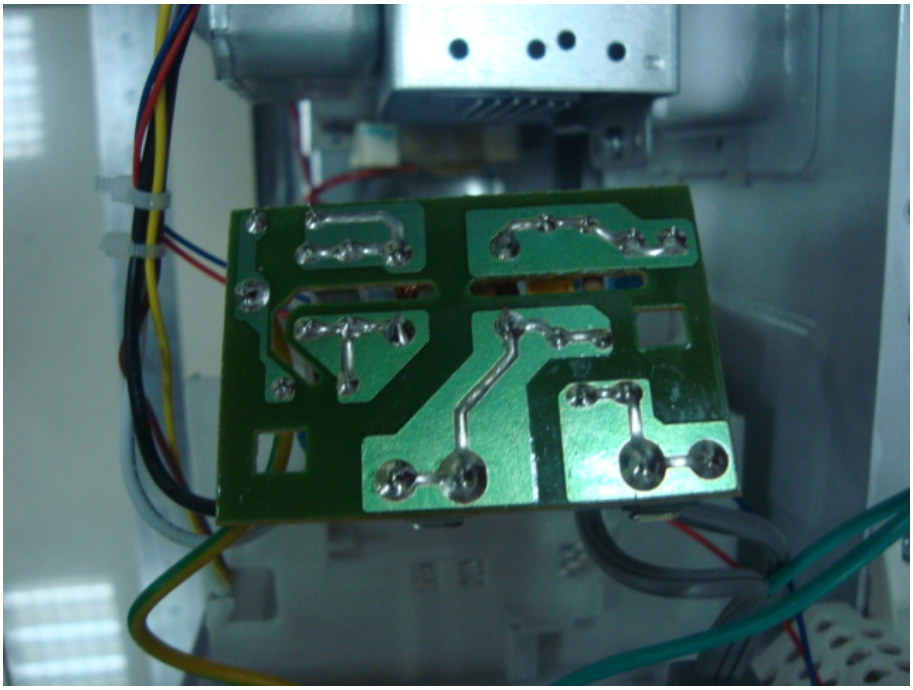
High-voltage Transformer View



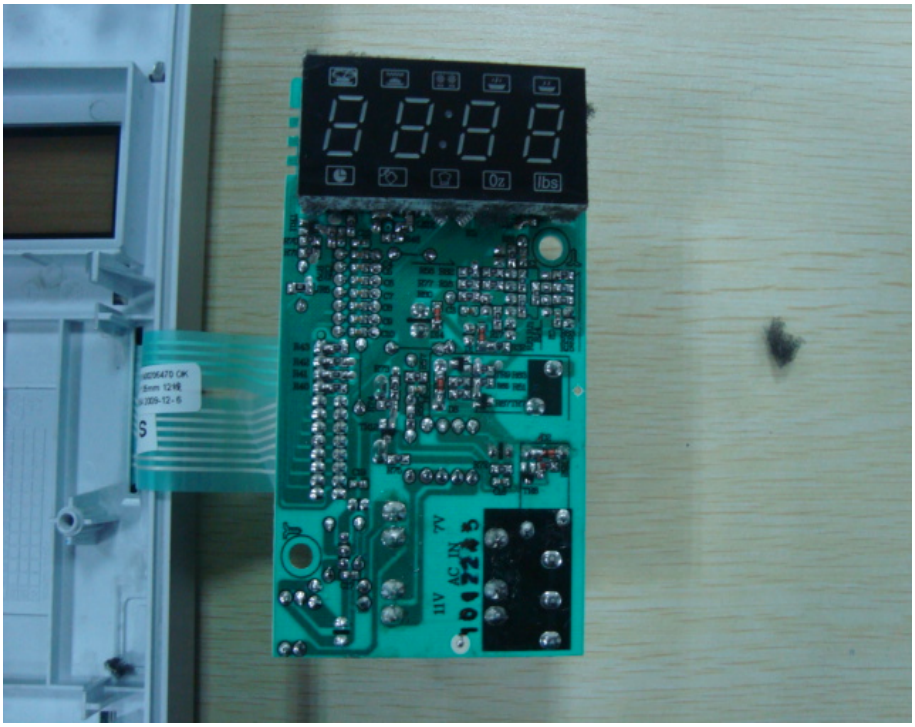
Magnetron Front View



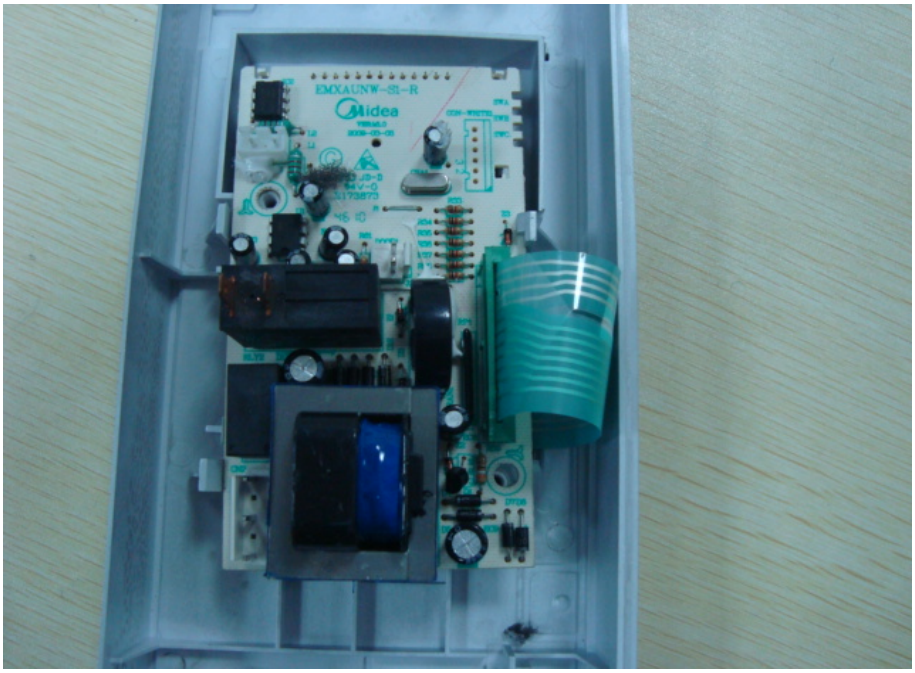
Power Filter Board Front View



Power Filter Board Rear View



Control Board Rear View

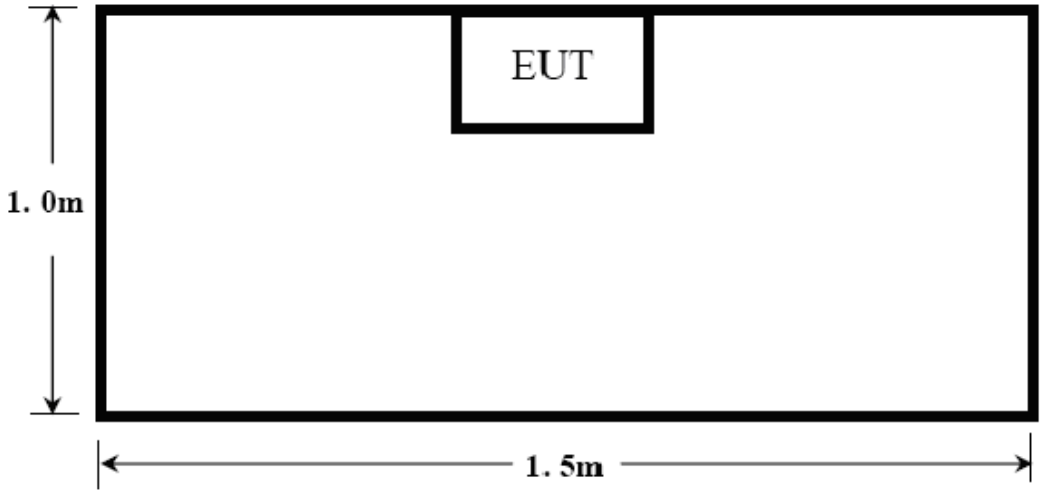


Control Board Front View

Test System Details

EUT					
Model Numbers:	XM142AYY-P/S				
Model Tested:	EM142ANW-S				
Description:	Microwave Oven				
Manufacturer:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.				
Support Equipment					
N/A					
Cable Description					
Description	**From**	**To**	**Length (Meters)**	**Shielded (Y/N)**	**Ferrite (Y/N)**
Power Cable	EUT	Plug	1.20	N	N

Configuration of Tested System



ATTACHMENT 1 – RADIATION HAZARD TEST

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	**TEST STANDERD:**	FCC Part 18
MODEL NUMBERS:	XM142AYY-P/S	**PRODUCT:**	Microwave Oven
MODEL TESTED:	EM142ANW-S	**EUT DESIGNATION:**	Home or Office
TEMPERATURE:	22℃	**HUMIDITY:**	60%RH
ATM PRESSURE:	101.1kPa	**GROUNDING:**	Through AC Power Cord
TESTED BY:	Sewen Guo	**DATE OF TEST:**	April 18, 2011
TEST REFERENCE:	ANSI C63.4-2003, 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 microwave meter will check the leakage and then record the maximum leakage.		
TESTED RANGE:	N/A		
TEST VOLTAGE:	120VAC / 60Hz		
RESULTS:	There was no microwave leakage exceeding a power level of 0.05 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 EMC Compliance Management Group(China) test personnel.		
M. UNCERTAINTY:	0.0001 mW/cm^2		

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Microwave Measurement	HOLADAY	HI-1710A	00052558	11/10/2010	11/09/2011
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: _____

ENGINEER SENIOR ENGINEER

Radiation Hazard Test Set-up:

ATTACHMENT 2 – INPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	**TEST STANDERD:**	FCC Part 18
MODEL NUMBERS:	XM142AYY-P/S	**PRODUCT:**	Microwave Oven
MODEL TESTED:	EM142ANW-S	**EUT DESIGNATION:**	Home or Office
TEMPERATURE:	22℃	**HUMIDITY:**	60%RH
ATM PRESSURE:	101.1kPa	**GROUNDING:**	Through AC Power Cord
TESTED BY:	Sewen Guo	**DATE OF TEST:**	April 18, 2011
TEST REFERENCE:	ANSI C63.4-2003, 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 EMC Compliance Management Group (China) test personnel.		
M. UNCERTAINTY :	± 5W		

Test Data:

Input Voltage (Vac/Hz)	Input Current (amps)	Measured Input Power (watts)	Rated Input Power (watts)
120.0	12.77	1460	1550

Test Equipments list :

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Power Meter	Ainuo	AN8726C	058704200	08/13/2010	08/12/2011
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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Input Power Test Set-Up :

ATTACHMENT 3 – RF OUTPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	**TEST STANDERD:**	FCC Part 18
MODEL NUMBERS:	XM142AYY-P/S	**PRODUCT:**	Microwave Oven
MODEL TESTED:	EM142ANW-S	**EUT DESIGNATION:**	Home or Office
TEMPERATURE:	22℃	**HUMIDITY:**	60%RH
ATM PRESSURE:	101.1kPa	**GROUNDING:**	Through AC Power Cord
TESTED BY:	Sewen Guo	**DATE OF TEST:**	April 18, 2011
TEST REFERENCE:	ANSI C63.4-2003, 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 =870watts. The test results relate only to the equipment under test provided by client.		
CHANGES OR MODIFICATIONS:	There were no modifications installed by EMC Compliance Management Group(China) test personnel.		
M. UNCERTAINTY:	± 0.3℃		

Test Data:

Quality of Water (ml)	Starting Temperature (℃)	Final Temperature (℃)	Elapsed Time (Seconds)	RF Output Power (watts)
1100	22.2	44.8	120	870

Test Equipments List :

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Digit Thermometer	Fluke Corporation	Fluke 51 II	87500204	10/26/2010	10/25/2011
Stopwatch	CASIO	HS-3	511Q038	10/22/2010	10/21/2011
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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RF Output Power Test Set-Up :

ATTACHMENT 4 – OPERATING FREQUENCY MEASUREMENT

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	**TEST STANDERD:**	FCC Part 18
MODEL NUMBERS:	XM142AYY-P/S	**PRODUCT:**	Microwave Oven
MODEL TESTED:	EM142ANW-S	**EUT DESIGNATION:**	Home or Office
TEMPERATURE:	22℃	**HUMIDITY:**	60%RH
ATM PRESSURE:	101.1kPa	**GROUNDING:**	Through AC Power Cord
TESTED BY:	Sewen Guo	**DATE OF TEST:**	April 18, 2011
TEST REFERENCE:	ANSI C63.4-2003, 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 EMC Compliance Management Group (China) test personnel.		
M. UNCERTAINTY:	Freq. ±10kHz		

Variation in Operating Frequency with Time:

Minimum Frequency (MHz)	*Maximum Frequency (MHz)*
2442.98	*2445.39*

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	*Maximum Frequency (MHz)*
2447.79	*2448.59*
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*	*11/18/2010*	*11/17/2011*
Horn Antenna	*R&S*	*HF906*	*100311*	*11/20/2010*	*11/17/2011*
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).					

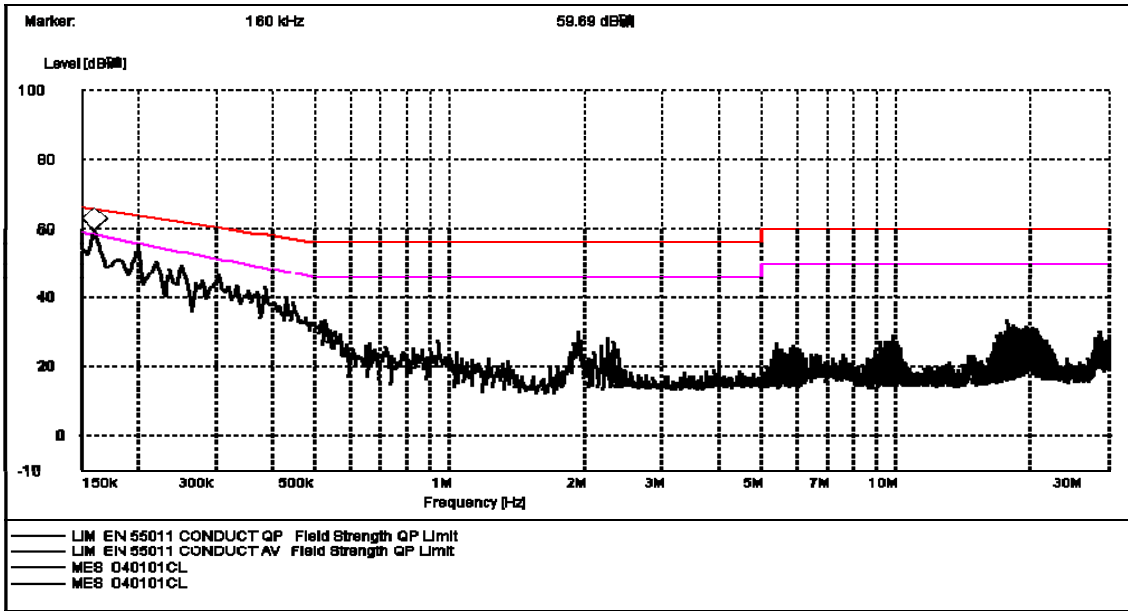
SIGNED BY: _____ ***REVIEWED BY:*** _____

ENGINEER ***SENIOR ENGINEER***

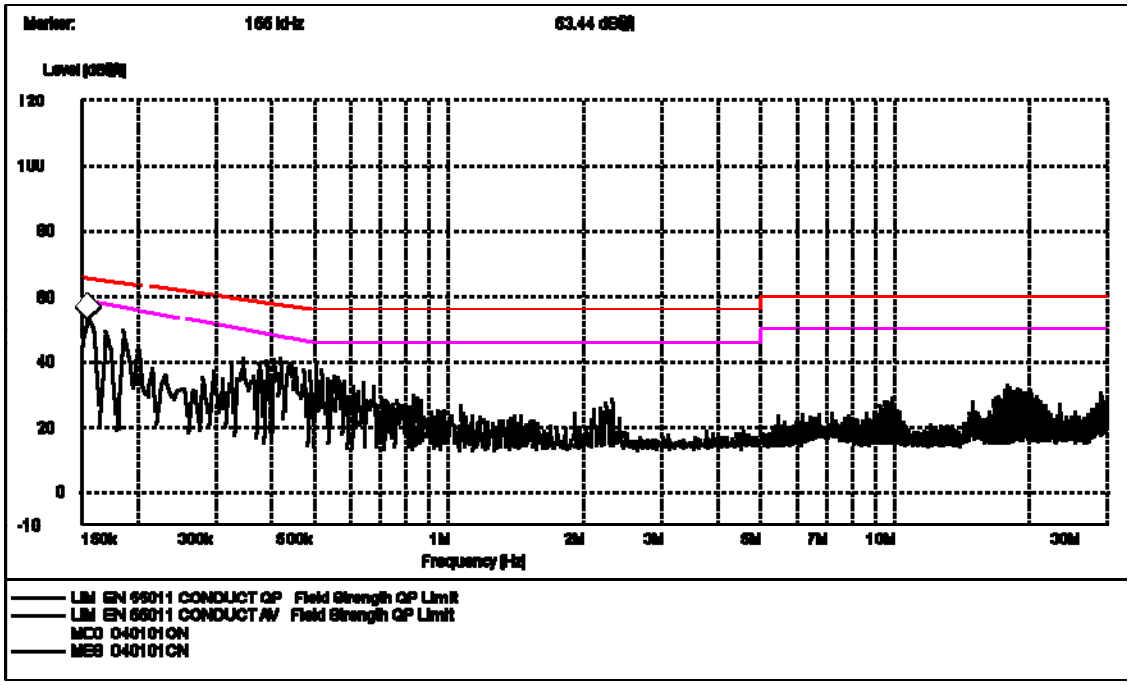
Operating Frequency Test Set-up:

ATTACHMENT 5 – CONDUCTED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	**TEST STANDERD:**	FCC Part 18
MODEL NUMBERS:	XM142AYY-P/S	**PRODUCT:**	Microwave Oven
MODEL TESTED:	EM142ANW-S	**EUT DESIGNATION:**	Home or Office
TEMPERATURE:	22℃	**HUMIDITY:**	60%RH
ATM PRESSURE:	101.1kPa	**GROUNDING:**	Through AC Power Cord
TESTED BY:	Sewen Guo	**DATE OF TEST:**	April 18, 2011
TEST REFERENCE:	ANSI C63.4-2003, FCC/OST MP-5:1986		
TEST PROCEDURE:	The EUT was set up according to the guideline of ANSI C63.4-2003 & 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 EMC Compliance Management Group (China) test personnel.		
M. UNCERTAINTY:	±2.5 dB		



Line L Conducted Emission Graph



Line N Conducted Emission Graph

Test Data:

Line L/N	Frequency (MHz)	Corrected QP Level (dBuV)	Limits QP (dBuV)	Margin QP (dB)	Corrected AVE Level (dBuV)	Limits AVE (dBuV)	Margin AV (dB)
L	0.940	24.0	56	-32.0	2.9	46	-43.1
L	1.935	26.8	56	-29.2	3.3	46	-42.7
L	9.810	25.8	60	-34.2	20.6	50	-29.4
N	0.210	40.9	60.5	-19.6	15.4	50.5	-35.1
N	2.325	22.9	56	-33.1	15.9	46	-30.1
N	9.880	26.1	60	-33.9	22.0	50	-28.0
Note: All readings are using a bandwidth of 9 kHz, with a 500 ms sweep time.All other emission levels are too low against the official limits that are not reported.							

Test Equipments List:

Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due
EMI test receiver	R&S	ESIB-26	100174	11/19/2010	11/18/2011
LISN	R&S	ESH2-Z5	100091	11/19/2010	11/18/2011
Transient Limiter	Agilent	11947A	3107A03648	11/19/2010	11/18/2011
Shielding Room	TDK	8m×4m×3m	N/A	04/17/2011	04/16/2012
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: _____

ENGINEER SENIOR ENGINEER

Conducted Emission Test Set-up:

ATTACHMENT 6 – RADIATED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	**TEST STANDERD:**	FCC Part 18
MODEL NUMBERS:	XM142AYY-P/S	**PRODUCT:**	Microwave Oven
MODEL TESTED:	EM142ANW-S	**EUT DESIGNATION:**	Home or Office
TEMPERATURE:	22℃	**HUMIDITY:**	60%RH
ATM PRESSURE:	101.1kPa	**GROUNDING:**	Through AC Power Cord
TESTED BY:	Sewen Guo	**DATE OF TEST:**	April 18, 2011
TEST REFERENCE:	ANSI C63.4-2003, FCC/OST MP-5:1986		
TEST PROCEDURE:	The EUT was set up according to the guidelines of ANSI C63.4-2003&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 meets 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 EMC Compliance Management Group (China) test personnel.		
M. UNCERTAINTY:	± 3.2 dB		

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]*	*Reading Level [dBμV/m]*	*Factor (dB)*	*Field Strength [dBμV/m]*	*Delta, QP [dB]*	*3 Meters Limits [dBμV/m]*
733.687	*V*	*20.7*	*23.5*	*44.2*	*-26.2*	*70.4*
368.236	*V*	*16.4*	*14.8*	*31.2*	*-39.2*	*70.4*
121.363	*V*	*17.5*	*10.5*	*27.5*	*-42.9*	*70.4*
251.603	*H*	*23.1*	*13.4*	*36.5*	*-33.9*	*70.4*
715.631	*H*	*14.1*	*23.2*	*37.3*	*-33.1*	*70.4*
490.701	*H*	*14.6*	*17.5*	*32.1*	*-38.3*	*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 = Reading Level + Factor, Factor = Antenna Factor + Cable Loss						
1GHz - 25GHz						
Frequency [GHz]	*Antenna Polarization [V/H]*	*Reading Level [dBμV/m]*	*Factor (dB)*	*Field Strength [dBμV/m]*	*Delta, AV [dB]*	*3 Meters Limits [dBμV/m]*
14.723	*V*	*13.5*	*35.9*	*49.4*	*-21.0*	*70.4*
17.158	*V*	*10.2*	*39.7*	*49.8*	*-20.6*	*70.4*
4.890	*V*	*12.2*	*18.8*	*31.0*	*-39.4*	*70.4*
17.309	*H*	*6.1*	*44.2*	*50.3*	*-20.1*	*70.4*
14.814	*H*	*10.0*	*35.8*	*45.8*	*-24.6*	*70.4*
11.597	*H*	*10.9*	*31.8*	*42.7*	*-27.7*	*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 = Reading 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*	*11/19/2010*	*11/18/2011*
Horn Antenna	*R&S*	*HF906*	*100311*	*11/21/2010*	*11/20/2011*
Amplifiler	*Agilent*	*83017A*	*N/A*	*11/21/2010*	*11/20/2011*
Hybrid Log Periodic Antenna	*TDK*	*HLP-3003C*	*130144*	*11/21/2010*	*11/20/2011*
Anechoic Chamber	*TDK*	*9m×6 m×5.7m*	*N/A*	*04/17/2011*	*04/16/2012*
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:*** _____

ENGINEER ***SENIOR ENGINEER***

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

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