

EMI TEST REPORT

On Model Name: Microwave Oven

Model Number: D10043(X)-(Y)

Brand Name: Galanz

Prepared for Guangdong Galanz Enterprises Co., Ltd

FCC ID Number: UHW10043002

According to

FCC Part 18(2012)

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-1212-10921-FCC

Tested by: *Sewen Guo* ECMG
Sewen Guo/Engineer Company Name

Reviewed by: *Jawen Yin* ECMG
Jawen Yin/Senior Engineer Company Name

QC Manager: *Swall Zhang* ECMG
Swall Zhang/QC Manager Company Name

Test Report Released by: *Swall Zhang* December 7th, 2012
Swall Zhang Date

Test Location

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

*Test Site Location : Galanz EMC Laboratory
25 South Ronggui Rd., Shunde,
Foshan, Guangdong, China*

Tel : (86)-757-23612785

Fax : (86)-757-23612537

Test Facility

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

- *CNAL - LAB Code: L2244
Galanz EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.*
- *FCC - Registration No.: 580210
Galanz EMC 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

<i>Exhibit Type</i>	<i>File Description</i>	<i>File Name</i>
<i>Test Report</i>	<i>Test Report</i>	<i>UHW10043002 _Test Report.pdf</i>
<i>Operation Description</i>	<i>Technical Description</i>	<i>UHW10043002 _Operation Description.pdf</i>
<i>External Photos</i>	<i>External Photos</i>	<i>UHW10043002 _External Photos</i>
<i>Internal Photos</i>	<i>Internal Photos</i>	<i>UHW10043002 _Internal Photos</i>
<i>Block Diagram</i>	<i>Block Diagram</i>	<i>UHW10043002 _Block Diagram.pdf</i>
<i>Schematics</i>	<i>Circuit Diagram</i>	<i>UHW10043002 _Schematics.pdf</i>
<i>ID Label/Location</i>	<i>Label and Location</i>	<i>UHW10043002 _Label & Location.pdf</i>
<i>User Manual</i>	<i>User Manual</i>	<i>UHW10043002 _User's Manual.pdf</i>
<i>Test set-up photos</i>	<i>Test set-up photos</i>	<i>UHW10043002 _Test Set-up Photos</i>

Government Disclaimer Notice

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Any reproduction of this document must be done in full. No single part of this document may be reproduced without permission from ECMG Electronic Technical Testing Corp (Shenzhen).

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 : *D10043(X)-(Y)*

Model Tested : *D10043APH-YM*

Brand Name : *Galanz*

Receipt Date : *December 3rd, 2012*

Date Tested : *December 3rd, 2012 to December 6th, 2012*

Applicant : *Guangdong Galanz Enterprises Co., Ltd.*

Address : *25 ronggui Nan Rd., Shunde, Foshan, Guangdong, China*

Telephone : *(86)-757-23612785*

Fax : *(86)-757-23612537*

Manufacturer : *Guangdong Galanz Enterprises Co., Ltd.*

Address : *25 ronggui Nan Rd., Shunde, Foshan, Guangdong, China*

Telephone : *(86)-757-23612785*

Fax : *(86)-757-23612537*

Factory : *Guangdong Galanz Enterprises Co., Ltd.*

Address : *25 ronggui Nan Rd., Shunde, Foshan, Guangdong, China*

Telephone : *(86)-757-23612785*

Fax : *(86)-757-23612537*

EUT Description

Guangdong Galanz Enterprises Co., Ltd. model tested D10043APH-YM (referred to as the EUT in this report) is a Microwave Oven.

The technical specifications of EUT are as follows:

<i>Power Supply</i>	<i>120V AC/60Hz</i>
<i>Rated Input Power (Microwave)</i>	<i>1450W</i>
<i>Rated Output Power (Microwave)</i>	<i>1000W</i>
<i>Rated Input Power(Grill):</i>	<i>1050W</i>
<i>Frequency</i>	<i>2450 MHz(Class B/Group 2)</i>
<i>Magnetron Model</i>	<i>M24FC-610A</i>
<i>Magnetron Manufacturer</i>	<i>Galanz</i>

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

EUT Model Derived

D10043(X)-(Y) model design:

D: With Microwave and Grills functions.

100: denote the output power is 1000W.

43: denote different capacity in 43 liters.

Variable (X) may be L,P,SL,SP ,AL,AP,ASL,ASP ,EL,EP, ESL,ESP ,ALH,APH, ASLH,ASPH ,ELH,EPH, ESLH,ESPH . "L" is pull-out type door; "P" is push-button type door. When there is no letter before "L" and "P", denotes mechanical control model; when there are "A" or "E" denote the electrical control model. "S" denotes stainless steel cavity; when there is without "S" before "L" or "P", denotes the epoxy painted cavity. And "H" means there is a humidity sensor.

Variable (Y) may compose by one to six characters from A to Z and/or numbers from 0 to 9. It represents the differences of the appearance.

Model D10043APH-YM was selected for the final testing.

Test Summary

The electromagnetic compatibility requirements on model D10043APH-YM 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 18:2012 FCC/OST MP-5:1986 ANSI C63.4-2003	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1
FCC Part 18:2012 FCC/OST MP-5:1986 ANSI C63.4-2003	Input Power Measurement	Passed	AC Input Port	Attachment 2
FCC Part 18:2012 FCC/OST MP-5:1986 ANSI C63.4-2003	RF Output power Measurement	Passed	EUT	Attachment 3
FCC Part 18:2012 FCC/OST MP-5:1986 ANSI C63.4-2003	Operating Frequency Measurement	Passed	EUT	Attachment 4
FCC Part 18:2012 FCC/OST MP-5:1986 ANSI C63.4-2003	Conducted Emission	Passed	AC Input Port	Attachment 5
FCC Part 18:2012 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 tap 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 software support this test.

Equipment Modification

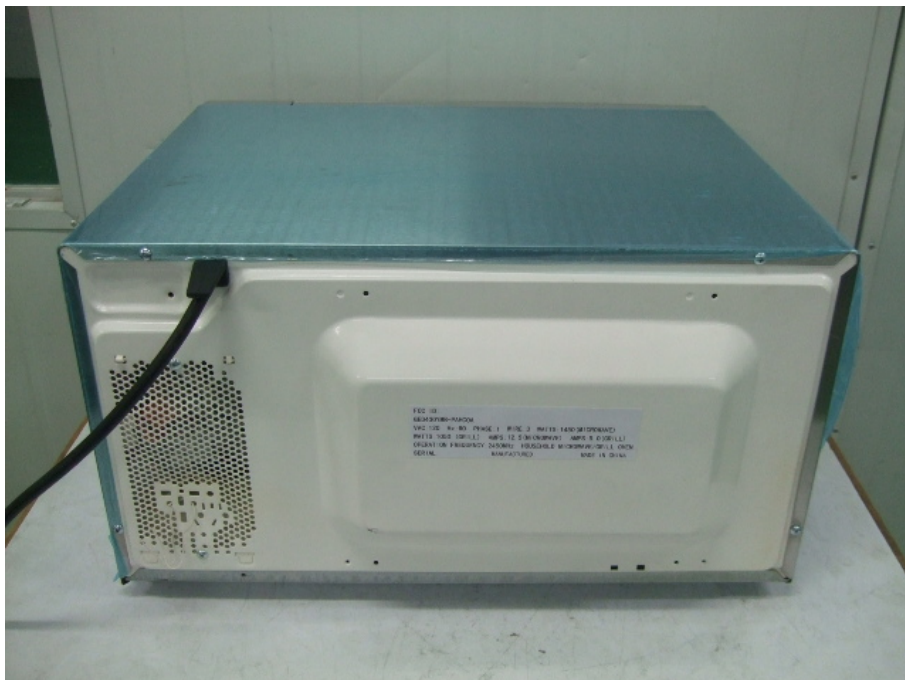
Any modifications installed previous to testing by Guangdong Galanz Enterprises Co., Ltd. will be incorporated in each production model sold or leased in United States.

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

EUT Sample Photos for Model D10043APH-YM



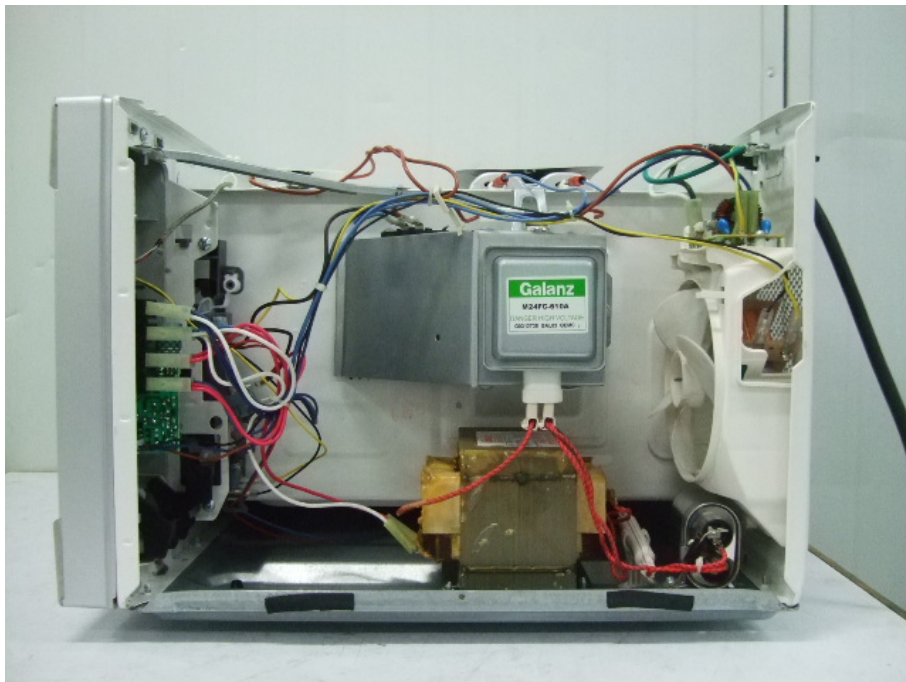
EUT Front View



EUT Back View



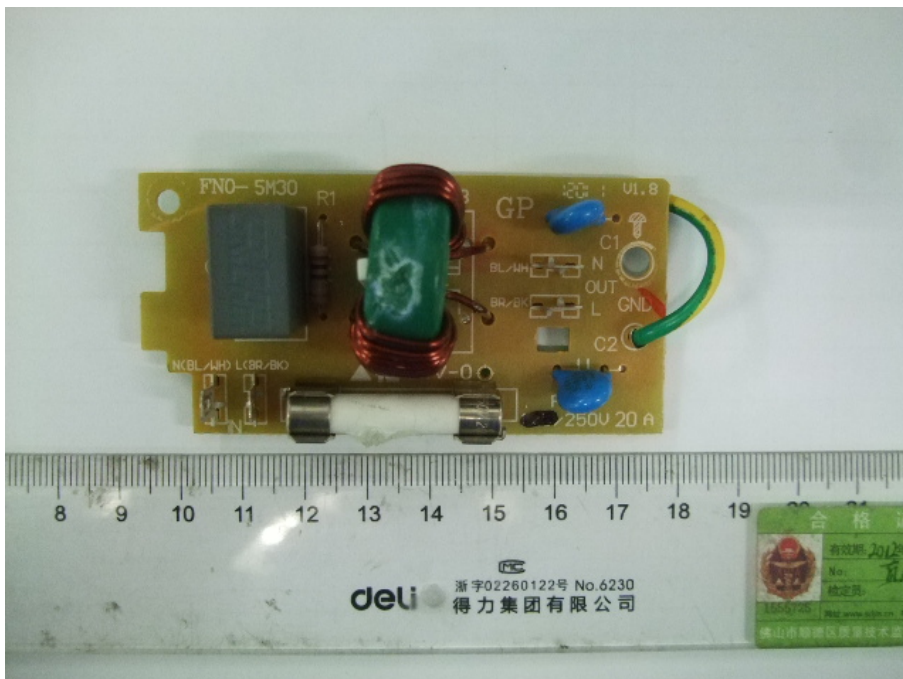
Door Open View



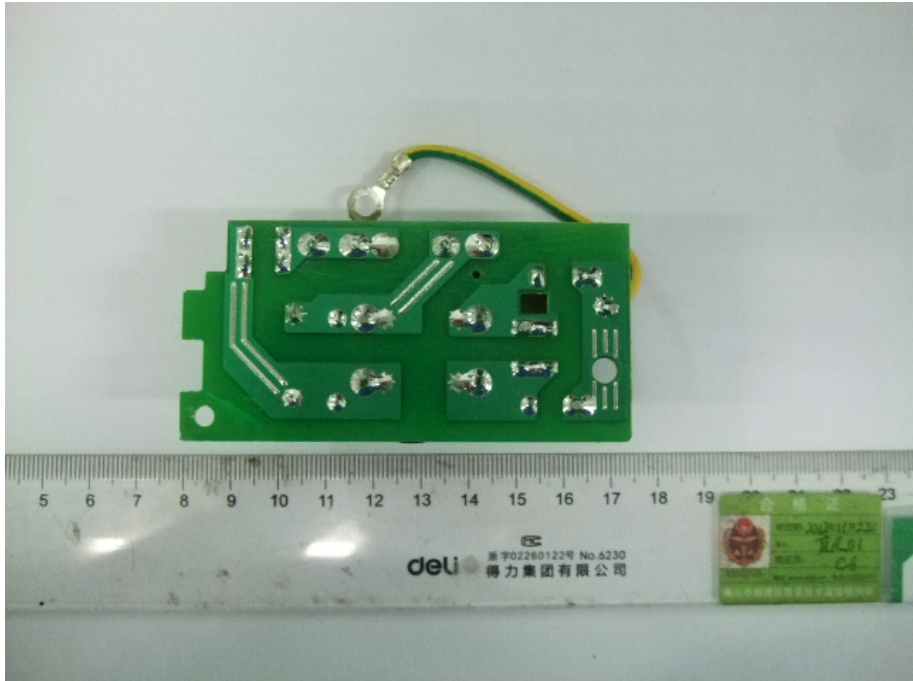
EUT Uncovered View



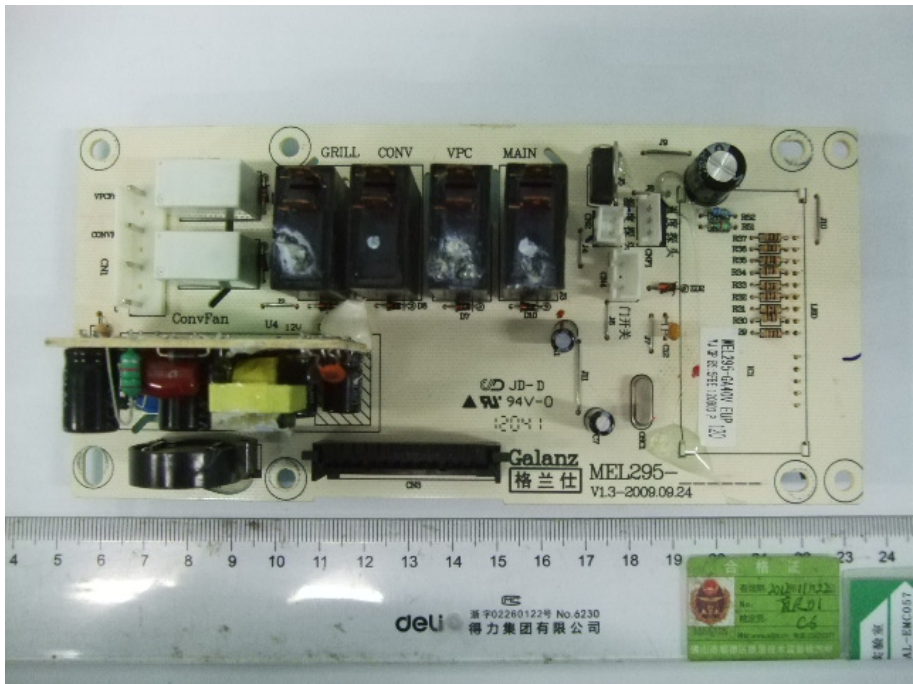
Magnetron Front View



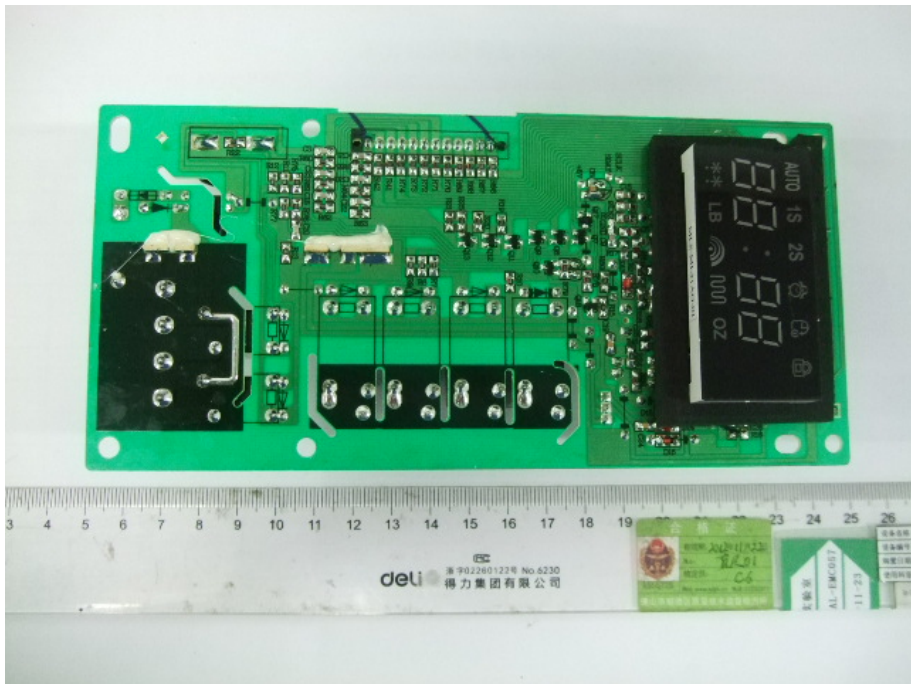
Power Filter Board Top View



Power Filter Board Bottom View



Motherboard Top View



Motherboard -Bottom View

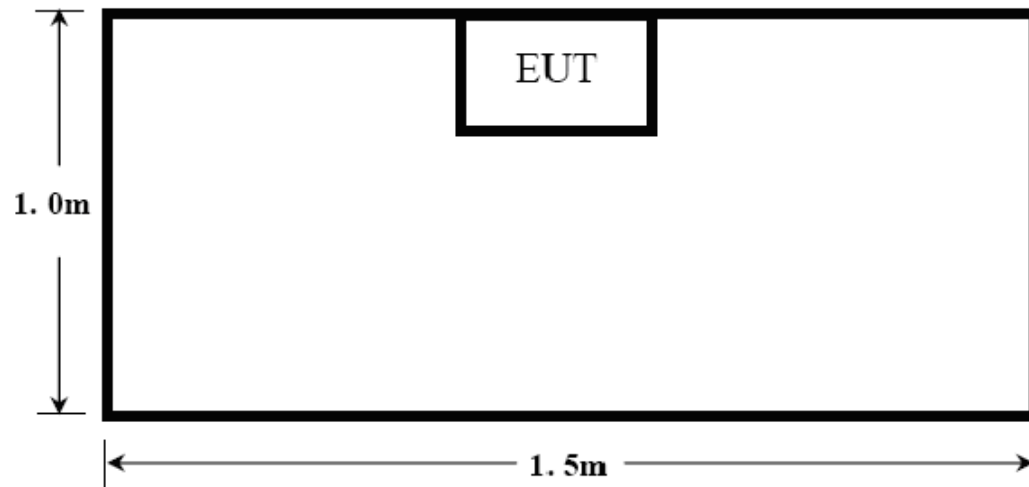
Test System Details

EUT					
Model Number:	D10043(X)-(Y)				
Model Tested:	D10043APH-YM				
Description:	Microwave Oven				
Input:	AC 120V/60Hz				
Manufacturer:	Guangdong Galanz Enterprises 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	1.1	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 Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18
MODEL NUMBERS:	D10043(X)-(Y)	PRODUCT:	Microwave Oven
MODEL TESTED:	D10043APH-YM	EUT DESIGNATION:	Home or Office
TEMPERATURE:	22°C	HUMIDITY:	51%
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord
TESTED BY:	Sewen Guo	DATE OF TEST:	December 3 rd ,2012
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 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 microwave meter 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 0.34mW/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:	0.0001mW/cm ²		

ATTACHMENT 2 – INPUT POWER MEASUREMENT

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18
MODEL NUMBERS:	D10043(X)-(Y)	PRODUCT:	Microwave Oven
MODEL TESTED:	D10043APH-YM	EUT DESIGNATION:	Home or Office
TEMPERATURE:	21°C	HUMIDITY:	69%
ATM PRESSURE:	103.1kPa	GROUNDING:	Through AC Power Cord
TESTED BY:	Sewen Guo	DATE OF TEST:	December 3 rd , 2012
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 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 ammeter 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		

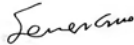
Test Data:

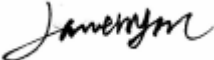
Input Voltage (Vac/Hz)	Input Current (amps)	Measured Input Power(watts)	Rated Input Power(watts)
120.2	13.49	1491	1450

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Power Meter	Ainuo	AN8716P	088707052	08/12/2012	08/12/2013

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:  ECMG
ENGINEER COMPANY NAME

REVIEWED BY:  ECMG
SENIOR ENGINEER COMPANY NAME



Input Power Test Set-Up

ATTACHMENT 3 – RF OUTPUT POWER MEASUREMENT

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18
MODEL NUMBERS:	D10043(X)-(Y)	PRODUCT:	Microwave Oven
MODEL TESTED:	D10043APH-YM	EUT DESIGNATION:	Home or Office
TEMPERATURE:	22°C	HUMIDITY:	60%RH
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord
TESTED BY:	Sewen Guo	DATE OF TEST:	December 3 rd , 2012
TEST REFERENCE:	ANSI C63.4-2003, FCC/OST MP-5:1986		
TEST PROCEDURE:	<p>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 1000ml 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.</p> <p>RF Output Power $= (4.2 \text{ joules/calorie})(\text{volume in milliliters})(\text{temperature rise}) / (\text{time in seconds})$ $= 4.2 \text{ joules/calorie} \times 1000 \times (\text{Final Temp} - \text{Initial Temp}) / 120$</p>		
TESTED RANGE:	N/A		
TEST VOLTAGE:	120VAC / 60Hz		
RESULTS:	RF Output Power =934.5watts. 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		

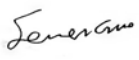
Test Result:


Quality of Water(ml)	Starting Temperature (°C)	Final Temperature (°C)	Elapsed Time (Seconds)	RF Output Power(watts)
1000	19.2	45.9	120S	934.5

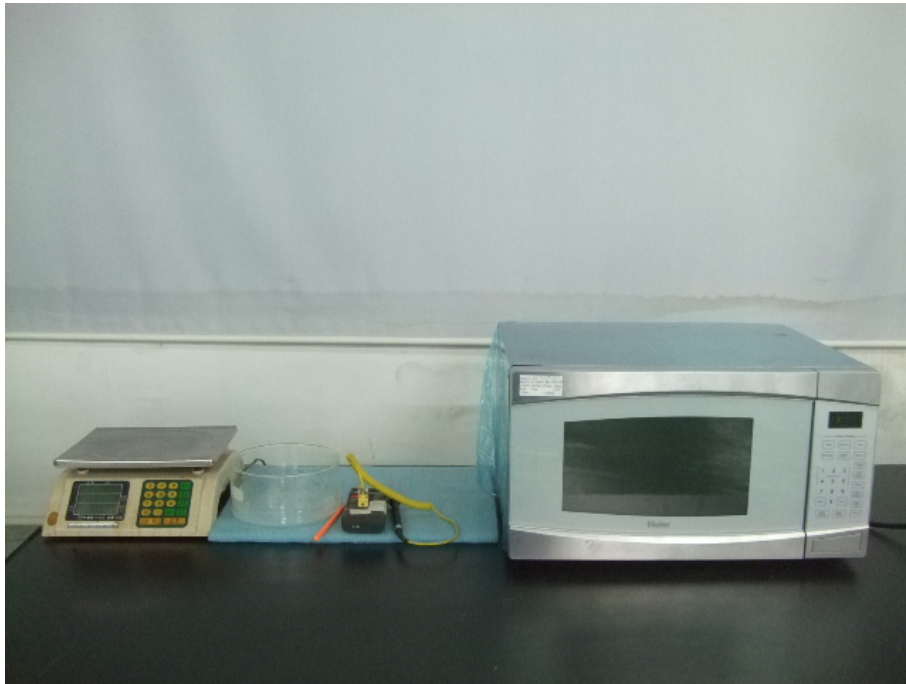
Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Digit Thermometer	TES	TES1310	021108782	05/17/2012	05/16/2013
Electronic scale	DING JIAN	30Kg	862399	01/13/2012	01/12/2013
Power Meter	Ainuo	AN8720P	058704076	07/20/2012	07/19/2013

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:  ECMG
COMPANY NAME
ENGINEER

REVIEWED BY:  ECMG
COMPANY NAME
SENIOR ENGINEER



RF Output Power Test Set-Up

ATTACHMENT 4 – OPERATING FREQUENCY MEASUREMENT

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18
MODEL NUMBERS:	D10043(X)-(Y)	PRODUCT:	Microwave Oven
MODEL TESTED:	D10043APH-YM	EUT DESIGNATION:	Home or Office
TEMPERATURE:	22°C	HUMIDITY:	60%RH
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord
TESTED BY:	Sewen Guo	DATE OF TEST:	December 6 th , 2012
TEST REFERENCE:	ANSI C63.4-2003, FCC/OST MP-5:1986		
TEST PROCEDURE:	<p>The EUT was set up according to the FCC MP-5 and FCC Part 18 for Operating Frequency Measurement.</p> <p>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.</p> <p>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.</p>		
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:

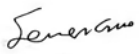
<i>Minimum Frequency (MHz)</i>	<i>Maximum Frequency (MHz)</i>
2420.8	2491.8


Variation in Operating Frequency with Line Voltage:

<i>Minimum Frequency (MHz)</i>	<i>Maximum Frequency (MHz)</i>
2418.8	2495.2
Note: Line voltage varied from 96Vac to 150Vac.	

Test Equipments List:

<i>Test Equipment</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Serial No.</i>	<i>Last Cal.</i>	<i>Cal. Due</i>
Horn Antenna	ETS	3115	6587	2012-08-02	2013-08-02
Spectrum Analyzer	R&S	FSP30	100755	2012-11-21	2013-11-21
3m Anechoic chamber	ETS	RFD-F-100	3187	2012-05-27	2013-05-27
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:  ECMG
COMPANY NAME
ENGINEER

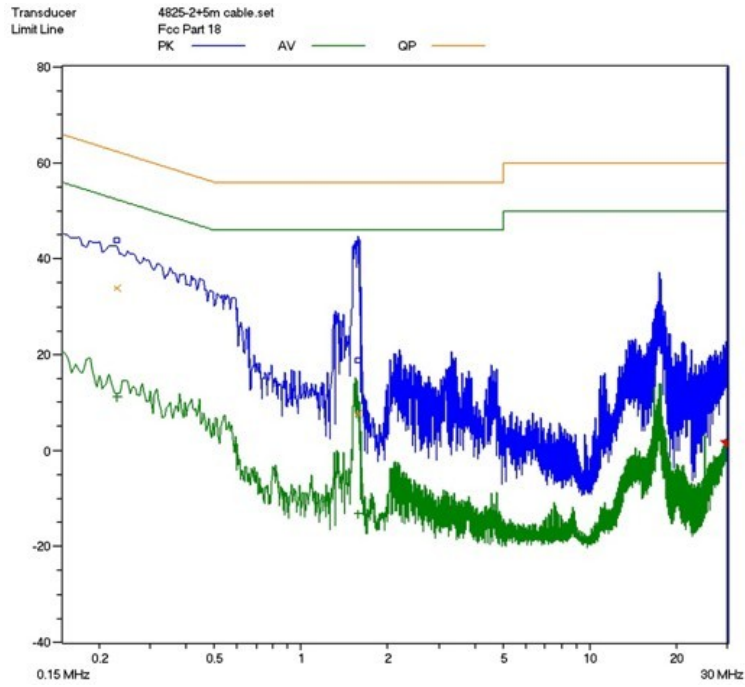
REVIEWED BY:  ECMG
COMPANY NAME
SENIOR ENGINEER



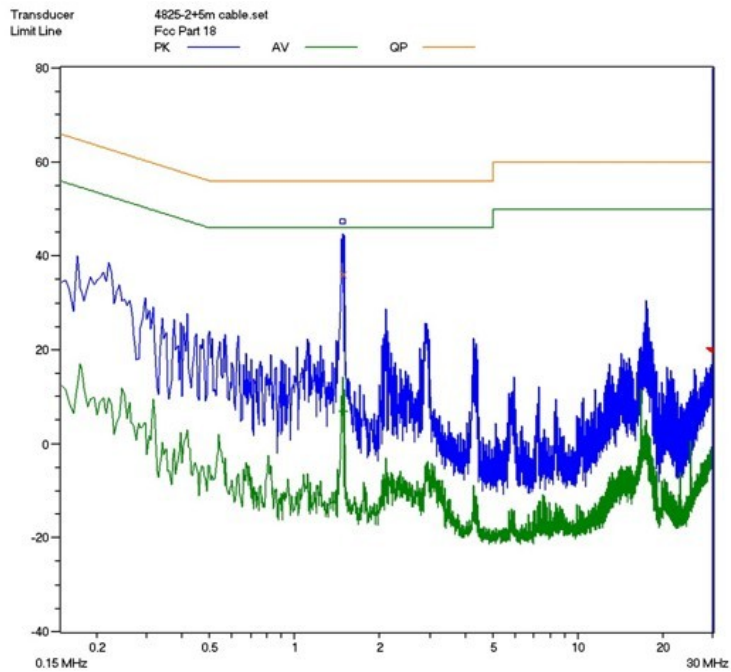
Operating Frequency Test Set-up

ATTACHMENT 5 – CONDUCTED EMISSION TEST RESULTS

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18
MODEL NUMBERS:	D10043(X)-(Y)	PRODUCT:	Microwave Oven
MODEL TESTED:	D10043APH-YM	EUT DESIGNATION:	Home or Office
TEMPERATURE:	22°C	HUMIDITY:	64%RH
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord
TESTED BY:	Sewen Guo	DATE OF TEST:	December 6 th , 2012
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 / 60H		
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		



Line L Conducted Emission Graph



Line N Conducted Emission Graph



Conducted Emission Test Set-up

ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18
MODEL NUMBERS:	D10043(X)-(Y)	PRODUCT:	Microwave Oven
MODEL TESTED:	D10043APH-YM	EUT DESIGNATION:	Home or Office
TEMPERATURE:	22°C	HUMIDITY:	63%RH
ATM PRESSURE:	103.0kPa	GROUNDING:	Through AC Power Cord
TESTED BY:	Sewen Guo	DATE OF TEST:	December 6 th , 2012
TEST REFERENCE:	ANSI C63.4-2003, FCC/OST MP-5:1986		
TEST PROCEDURE:	<p>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.</p> <p>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:</p> <p>FS= RA + AF + CF - AG</p> <p>Where: FS = Field Strength</p> <p>RA = Receiver Amplitude</p> <p>AF = Antenna Factor</p> <p>CF = Cable Attenuation Factor</p> <p>AG = Amplifier Gain</p>		
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		

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]
62.862	V	5.5	42.3	47.8	-22.9	70.7
105.464	V	7.7	45.3	53.0	-17.7	70.7
278.861	V	13.3	25.8	39.1	-31.6	70.7
65.158	H	5	27.5	32.5	-38.2	70.7
111.892	H	7.4	20.8	28.2	-42.5	70.7
297.454	H	13.3	28	41.3	-29.4	70.7
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]
2.227	V	28.3	3.8	32.1	-38.6	70.7
4.933	V	32.7	-10.5	22.2	-48.5	70.7
7.368	V	36	-17.4	18.6	-52.1	70.7
2.194	H	28.3	5.1	33.4	-37.3	70.7
4.937	H	32.7	-12.3	20.4	-50.3	70.7
7.380	H	36	-19.7	16.3	-54.4	70.7
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.						

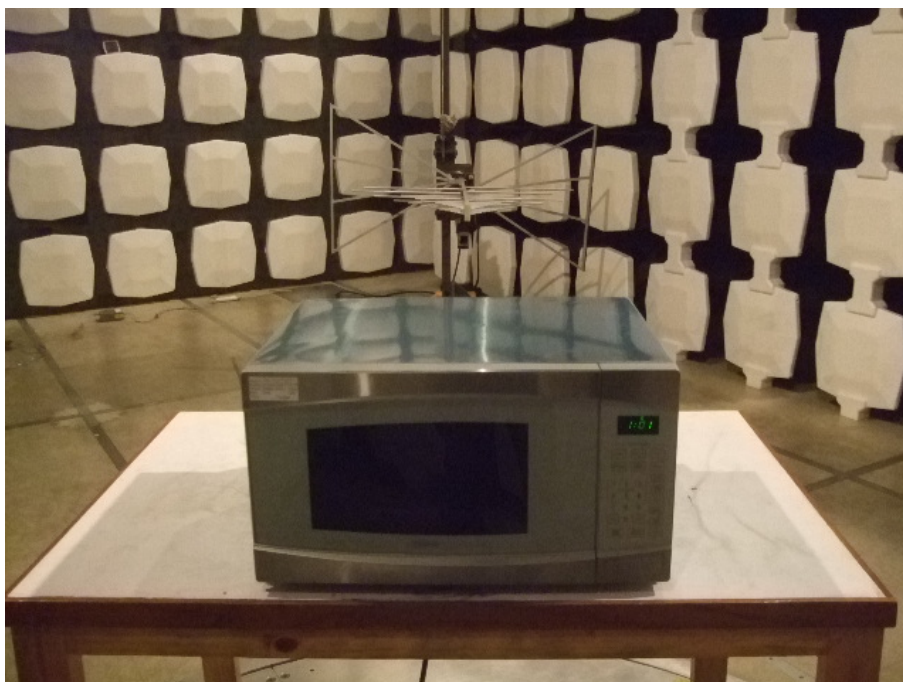
Test Equipments List:

<i>Test equipment</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Serial No.</i>	<i>Last Cal.</i>	<i>Cal. Due</i>
<i>Broadband Antenna</i>	<i>ETS</i>	<i>3142C</i>	<i>00042672</i>	<i>2012-10-12</i>	<i>2013-10-12</i>
<i>Horn Antenna</i>	<i>ETS</i>	<i>3115</i>	<i>6587</i>	<i>2012-08-02</i>	<i>2013-08-02</i>
<i>Band-pass Filter</i>	<i>Micro-Tronic</i>	<i>BRM50702</i>	<i>030</i>	<i>2012-11-021</i>	<i>2013-11-21</i>
<i>EMI Receiver</i>	<i>SCHAFFNER</i>	<i>SMR4503</i>	<i>44</i>	<i>2012-07-08</i>	<i>2013-07-08</i>
<i>Spectrum Analyzer</i>	<i>R&S</i>	<i>FSP30</i>	<i>100755</i>	<i>2012-11-21</i>	<i>2013-11-21</i>
<i>3m Anechoic chamber</i>	<i>ETS</i>	<i>RFD-F-100</i>	<i>3187</i>	<i>2012-05-27</i>	<i>2013-05-27</i>

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: *Jeneran* ECMG
COMPANY NAME
ENGINEER

REVIEWED BY: *Janeryan* ECMG
COMPANY NAME
SENIOR ENGINEER



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



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

****** End of Report ******