

EMI TEST REPORT

On Model Name: Microwave Oven

Model Number: P11043(X) -(Y)						
Brand Name: Galanz						
Prepared for Guangdong Galanz Enterprises Co., Ltd						
FCC ID Number: UHW11043001						
According to FCC Part 18(2013) 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-1401-11103-FCC						
Tested by: ECMG Sewen Guo/Engineer 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 January 17 th , 2014 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.

Table of Contents

LIST ATTACHED FILES	1
GOVERNMENT DISCLAIMER NOTICE	2
REPRODUCTION CLAUSE	2
OPINIONS AND INTERPRETATIONS	2
STATEMENT OF MEASUREMENT UNCERTAINTY	2
ADMINISTRATIVE DATA	3
EUT DESCRIPTION	4
EUT MODEL DERIVED	4
TEST SUMMARY	5
LOAD FOR MICROWAVE OVEN	6
EUT EXERCISE SOFTWARE	7
EQUIPMENT MODIFICATION	7
EUT SAMPLE PHOTOS FOR MODEL P11043AP-YZ	8
TEST SYSTEM DETAILS	13
CONFIGURATION OF TESTED SYSTEM	14
ATTACHMENT 1 -RADIATION HAZARD TEST	15
ATTACHMENT 2 - INPUT POWER MEASUREMENT	17
ATTACHMENT 3 - RF OUTPUT POWER MEASUREMENT	20
ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT	23
ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS	26
ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS	30

List Attached Files

Exhibit Type	File Description	File Name
Test Report	Test Report	UHW11043001 _Test Report.pdf
Operation Description	Technical Description	UHW11043001 _Operation Description.pdf
External Photos	External Photos	UHW11043001 _External Photos
Internal Photos	Internal Photos	UHW11043001 _Internal Photos
Block Diagram	Block Diagram	UHW11043001 _Block Diagram.pdf
Schematics	Circuit Diagram	UHW11043001 _Schematics.pdf
ID Label/Location	Label and Location	UHW11043001 _Label & Location.pdf
User Manual	User Manual	UHW11043001 _User's Manual.pdf
Test set-up photos	Test set-up photos	UHW11043001 _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 : P11043(X) - (Y)

Model Tested : P11043AP-YZ

Brand Name : Galanz

Receipt Date : January 8th, 2014

Date Tested : January 9th, 2014 to January 14th, 2014

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 rongqui 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

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EUT Description

Guangdong Galanz Enterprises Co., Ltd. model tested P11043AP-YZ (referred to as the EUT in this report) is a Microwave Oven.

The technical specifications of EUT are as belows:

Power Supply	120V AC/60Hz
Rated Input Power (Microwave)	1600W
Rated Output Power (Microwave)	1100W
Frequency	2450 MHz(Class B/Group 2)
Magnetron Model	M24FC-610A
Magnetron Manufacturer	Galanz

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

EUT Model Derived

P11043(X)-(Y) model designations:

P: With Microwave functions only.

110: denote the output power is 1100W.

43: denote different capacity in 43 liters.

Variable (X) may be L,P,SL,SP,AL,AP,ASL,ASP,EL,EP, ESL,ESP "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.

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 P11043AP-YZ was selected for the final testing.

Test Summary

The electromagnetic compatibility requirements on model P11043AP-YZ 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 18:2013 FCC/OST MP-5:1986 ANSI C63.4-2003	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1		
FCC Part 18:2013 FCC/OST MP-5:1986 ANSI C63.4-2003	Input Power Measurement	Passed	AC Input Port	Attachment 2		
FCC Part 18:2013 FCC/OST MP-5:1986 ANSI C63.4-2003	RF Output power Measurement	Passed	EUT	Attachment 3		
FCC Part 18:2013 FCC/OST MP-5:1986 ANSI C63.4-2003	Operating Frequency Measurement	Passed	EUT	Attachment 4		
FCC Part 18:2013 FCC/OST MP-5:1986 ANSI C63.4-2003	Conducted Emission	Passed	AC Input Port	Attachment 5		
FCC Part 18:2013 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 output power of the EUT is 1100 watts, 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.

EUT Exercise Software

No test sofware 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 P11043AP-YZ



EUT Front View



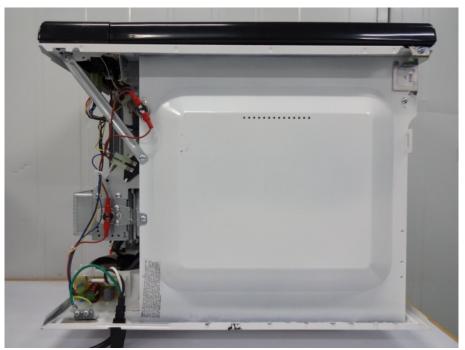
EUT Back View



Door opend view



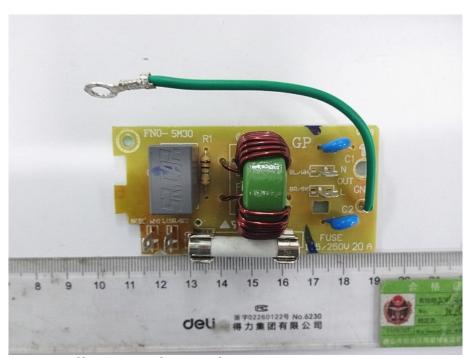
EUT Uncovered View from right side



EUT Uncovered View from top side



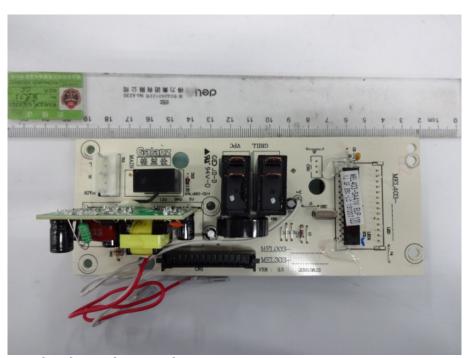
Magnetron Front View



Power Filter Board Top View



Power Filter Board Bottom View



Motherboard Top View



Motherboard -Bottom View

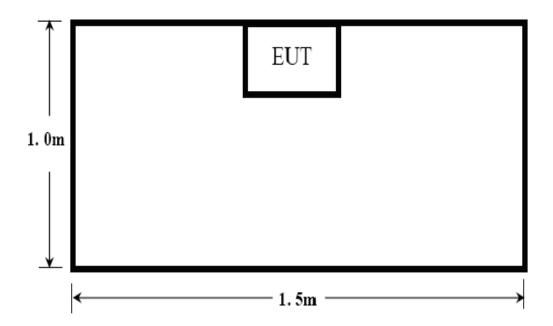
Test System Details

			EUT			
Model Number:	P11043	(X) -(Y)				
Model Tested:	P11043	AP-YZ				
Description:	Microw	ave Oven				
Input:	AC 120	V/60Hz				
Manufacturer:	Guanga	long Galanz	Enterprises Co	., Ltd.		
	1	Suppor	t Equipment			
Description Model Number Serial Number Manufacturer						
	•		N/A			
		Cable	Description			
Description	From	То	Length (Meters)		lded (N)	Ferrite (Y/N)
Power Cable	EUT	Plug	1.1 N 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 Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	P11043(X) -(Y)	PRODUCT:	Microwave Oven		
MODEL TESTED:	P11043AP-YZ	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22°C	HUMIDITY:	55%		
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	January 9 th ,2014		
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:	AC 120V/60Hz				
RESULTS:	There was no microwave leakage exceeding a power level of 0.03mW/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:	0.0001mW/cm ²				

Test Equipment List:

Test Equipment	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Interval
Microwave Measurement System	HOLADAY	HI-1710	98370	2013.07.10	2014.07.09

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	TESTED BY:	Severano	ECMG
		ENGINEER	COMPANY NAMI

REVIEWED BY: ECMG
SENIOR ENGINEER COMPANY NAME



Radiation Hazard Test Set-up

ATTACHMENT 2 - INPUT POWER MEASUREMENT

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	P11043(X) -(Y)	PRODUCT:	Microwave Oven	
MODEL TESTED:	P11043AP-YZ	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	21℃	HUMIDITY:	55%	
ATM PRESSURE:	103.1kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Sewen Guo	DATE OF TEST:	January 9 th , 2014	
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 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)			Rated Input Power(watts)
120.5	14.26	1669	1600

Test Equipments List:

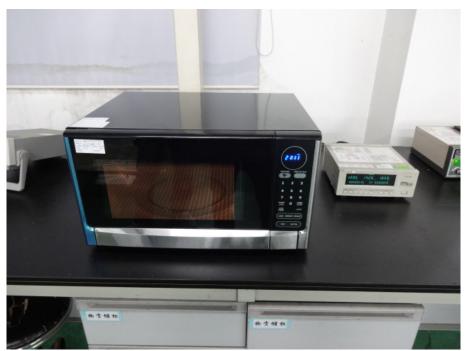
Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Power Meter	Ainuo	AN8716P	058704074	2013-07-19	2014-07-18

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:	Jenerans	ECMG	
		ENGINEER	COMPANY NAME	

REVIEWED BY:
SENIOR ENGINEER

ECMG
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:	P11043(X) -(Y)	PRODUCT:	Microwave Oven		
MODEL TESTED:	P11043AP-YZ	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:	January 9 th , 2014		
TEST REFERENCE:	ANSI C63.4-2003, 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 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 = (4.2 joules/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 =1035.7watts. The test results relate only to the equipment untest provided by client.				
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Electronic Technical Testing Cor (Shenzhen) test personnel.				
M. UNCERTAINTY:	± 0.3℃				

Test Result:

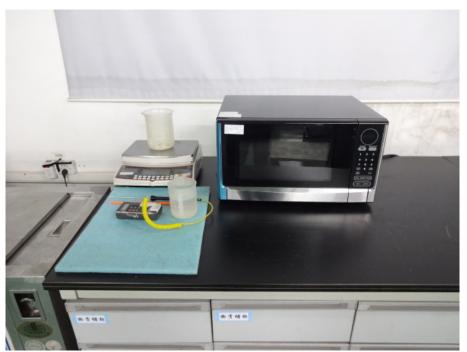
Quality of	Starting	Final	Elapsed Time	RF Output	
Water(ml)	Temperature (${\mathcal C}$)	Temperature (で)	(Seconds)	Power(watts)	
1100	19.2	46.1	1205	1035.7	

Test Equipments list:

Test equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Digital thermometer	DEREE	DE-3003	G0023727	2013-07-04	2014-07-03
Electronic scale	PTL	Max=5kg	11038	2013-01-04	2014-01-04
Power Meter	Ainuo	AN8720P	058704074	2013-07-19	2014-07-18

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

TESTED BY: Soverans	ECMG
ENGINEER	COMPANY NAME
Samentino	
REVIEWED BY: _	ECMG
SENIOR ENGINE	ER COMPANY NAME



RF Output Power Test Set-Up

ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	P11043(X) -(Y)	PRODUCT:	Microwave Oven		
MODEL TESTED:	P11043AP-YZ	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:	January 14 th ,2014		
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 ECMG Electronic Technical Testing Corp (Shenzhen) test personnel.				
M. UNCERTAINTY:	Freq. ±10kHz	_			

Variation in Operating Frequency with Time:

Minimum Frequency (MHz)	Maximum Frequency (MHz)	
2406.8	2467.4	

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)			
2406.4	2468.0			
Note: Line voltage varied from 96VAC to 150VAC.				

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Horn Antenna	ETS	3115	658 <i>7</i>	2013-08-02	2014-08-02
Spectrum Analyzer	R&S	FSP30	100755	2013-11-21	2014-11-21
3m Anechoic chamber	ETS	RFD-F-100	3187	2013-05-27	2014-05-27

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).

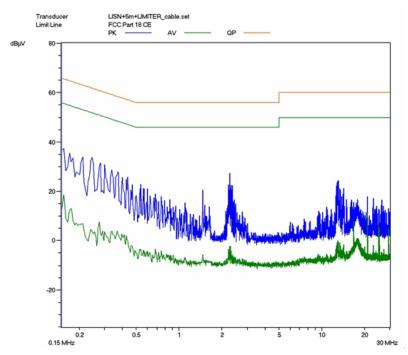
TESTED BY:	Seventino	ECMG		
	ENGINEER	COMPANY NAME		
	Zamentin			
REVIEWED BY:		ECMG		
	SENIOR ENGINEER	COMPANY NAME		



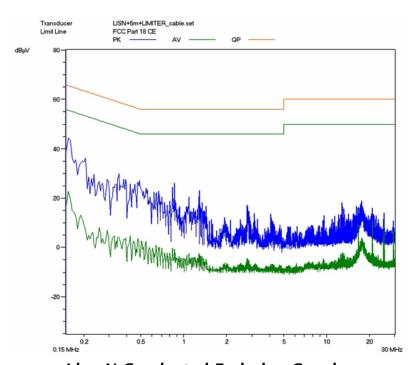
Operating Frequency Test Set-up

ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

	T					
CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18			
MODEL NUMBERS:	P11043(X) -(Y)	PRODUCT:	Microwave Oven			
MODEL TESTED:	P11043AP-YZ	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	22℃	HUMIDITY:	64%RH			
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord			
TESTED BY:	Sewen Guo	January 14 th , 2014				
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

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	0.154	34.5	65.8	-31.3	0.154	19.8	55.8	-36.0
L	0.244	28.7	62	-33.3	0.244	7.5	52	-44.5
L	20.971	19.7	60	-40.3	20.971	14.9	50	-35.1
N	0.157	38.7	65.6	-26.9	0.157	24.0	55.6	-31.6
N	0.483	28.3	56.3	-28.0	0.483	0.7	46.3	-45.6
N	20.972	20.4	60	-39.6	20.972	13.5	50	-36.5

Note:

The other reading are too low against official limits that are not be recorded.

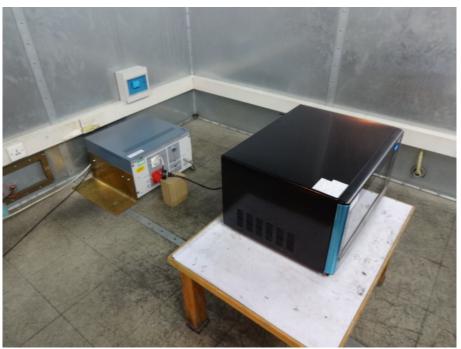
Test Equipments List:

Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due
EMI Receiver	SCHAFFNER	SMR4503	44	2013-07-08	2014-07-08
LISN	R&S	ESH2-Z5	N/A	2013-07-08	2014-07-08
Shielding Room	ETS	RFD-100	3181	2013-05-18	2014-05-18

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	
Zamen find		
REVIEWED BY:	ECMG	
SENIOR ENGINEER	COMPANY NAME	

All readings are using a bandwidth of 9 kHz, with a 500 ms sweep time. A video filter was not use.
 "QP" means "Quasi-Peak" values, "AV" means "Average" values.



Conducted Emission Test Set-up

ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	P11043(X) -(Y)	PRODUCT:	Microwave Oven		
MODEL TESTED:	P11043AP-YZ	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:	January 14 th , 2014		
TEST REFERENCE:	ANSI C63.4-2003, FCC/OST N	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 nonconductiv e 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 discriminati on 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:	± 3.2 dB				

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]	Field Strength [dBµV/m]	Delta, QP [dB]	3 Meters Limits [dBµV/m]
100.614	V	36.1	-35.0	71.1
127.764	V	37.3	-33.8	71.1
267.978	V	35.6	-35.5	71.1
124.834	Н	33.9	-37.2	71.1
266.386	Н	34.4	-36.7	71.1
978.516	Н	36.4	-34.7	71.1

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]	Field Strength [dBµV/m]	Delta, AV [dB]	3 Meters Limits [dBµV/m]
2.21166	V	38.16	-32.94	71.1
4.92026	V	55.76	-15.34	71.1
7.39264	V	57.7	-13.4	71.1
9.88724	Н	59.61	-11.49	71.1
1.8446	Н	30.09	-41.01	71.1
4.91108	Н	51.11	-19.99	71.1

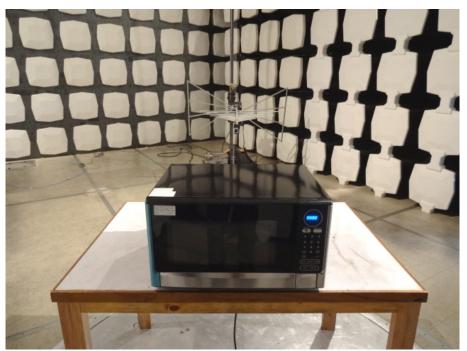
Note: 1) All readings are average unless stated otherwise, using a bandwidth of 1MHz, with a 60s sweep time. A video filter was not used. 2) Field Strength = Read Level + Factor, Factor = Antenna Factor + Cable Loss - Preamp Factor.

Test Equipments List:

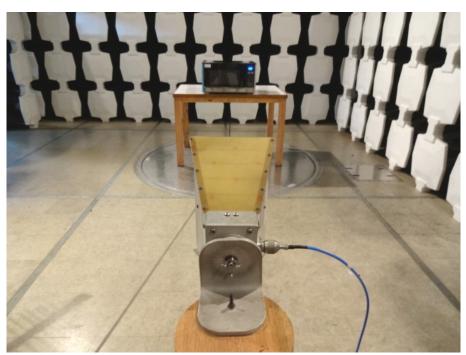
Test equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Broadband Antenna	ETS	3142C	00042672	2013-10-12	2014-10-12
Horn Antenna	ETS	3115	6587	2013-08-02	2014-08-02
Band-pass Filter	Micro-Tronic	BRM50702	030	2013-11-21	2014-11-21
EMI Receiver	SCHAFFNER	SMR4503	44	2013-07-08	2014-07-08
Spectrum Analyzer	R&S	FSP30	100755	2013-11-21	2014-11-21
3m Anechoic chamber	ETS	RFD-F-100	3187	2013-05-27	2014-05-27

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:	Somerano	ECMG	
	ENGINEER	COMPANY NAME	
	Samenfin		
REVIEWED BY	: <u> </u>	ECMG	
	SENIOR ENGINEER	COMPANY NAME	



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



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

*** End of Report ***

FCC Test Report #: GUA-1401-11103-FCC Prepared for Guangdong Galanz Enterprises Co., Ltd. Prepared by ECMG Electronic Technical Testing Corp (Shenzhen).