



EMI Test Report

On Model Name: Microwave oven

Model Numbers: P10034X-Z

Brand Name: Galanz

FCC ID: UHW10034001

Prepared for Guangdong Galanz Enterprises Co., Ltd

According to

FCC Part 18

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 #: PSZ-0703-0345-FCC+ID

Prepared by: Ravin Su

Reviewed by: Ivan Wen

QC Manager: Paul Chen

Test Report Released by:

Paul J. de

2007, Oct 19

Paul Chen

Date

List Attached Files

Exhibit Type	File Description	File Name
Test Report	Test Report	UHW10034001
		_Test report.pdf
Operation	Technical Description	UHW10034001
Description		_operation description.pdf
External Photos	External Photos	UHW10034001
		_External Photos
Internal Photos	Internal Photos	UHW10034001
		_Internal Photos
Block Diagram	Block Diagram	UHW10034001
		_Block Diagram.pdf
Schematics	Circuit Diagram	UHW10034001
		_Schematics.pdf
ID Label/Location	Label Artwork and Location	UHW10034001
		_Label & Location.pdf
User Manual	User Manual	UHW10034001
		_User Manual.pdf
Test setup photos	Test setup photos	UHW10034001
		_Test Setup Photos

Test Location

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

Test Site Location: Guangdong Galanz Enterprises Co., Ltd

25 South Ronggui Rd., Shunde, Foshan,

Guangdong, China.

Tel: 86-757-23612785 Fax: 86-757-23612537

FCC Registration Number: 580210

Accreditation Bodies

EMC Compliance Management Group is a fully accredited Test Laboratory for ITE, ISM, MIL-STD and Telecommunications Products.



In compliance with the site registration requirements of Section 2.948 of the FCC Rules to perform EMI measurements for the general public.



Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code # 200068-0.

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Opinions and Interpretations

This test report relates to the abovementioned equipment under test (EUT). Without the permission of EMC Compliance Management Group 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 : P10034X-Z

Model Tested : P10034AP

Brand Name : Galanz

Date Tested : 2007, March 15th

Applicant : Guangdong Galanz Enterprises Co., Ltd.

25 Ronggui Nan Rd., Shunde, Foshan, Guangdong,

China.

Telephone : 86-0757-23612785

Fax : 86-757-23612537

Manufacturer : Guangdong Galanz Enterprises Co., Ltd.

25 Ronggui Nan Rd., Shunde, Foshan, Guangdong,

China.

EUT Description

Guangdong Galanz Enterprises Co., Ltd. model tested P10034AP (referred to the EUT in this report) is a Microwave Oven.

Specifications:

Model Number:	P10034AP
Power Consumption:	120V~60Hz, 1500W (MICROWAVE)
Output:	1000W
Operation Frequency:	2450MHz
Magnetron Manufacturer	Galanz
Magnetron Model Number	M24FC-610A
Outside Dimensions(H×W×D):	13×21×17.5 in.
Oven Cavity Dimensions(H×W×D):	9.0×14.4×14.3 in.
Oven Capacity:	1.2 cu.ft
Cooking Uniformity:	Turntable System (₱12.4'')
Net Weight:	Approx. 37.4lb.

Type of Deriver

P10034X-Z model designations:

P: denotes only the Microwave functions.

100: denotes the output power is 1000W.

34: denote different capacity in 34 liters.

X may be AL, EL, AP, EP, ASP, ESP, ML, MSL, MP, MSP.

"A, E, M" denote the electrical control model;

"L, P" just denote the different open mode for door; "L" denotes the door handle is on the side of the door; "P" denotes the push-down type door; "S" denotes the stainless steel cavity.

Z may be blanK,T1,T3,T4,C5,D1,D2,F4,MT1,B5,B6,B8,D9,C9 denotes the different appearance.

Test Summary

The Electromagnetic Compatibility requirements on model tested P10034AP 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 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	Radiation Hazard Measurement	Passed by 0.0034mW/cm ²	EUT	Attachment 1	
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	Input Power Measurement	Refer to Attachment2	EUT	Attachment 2	
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	RF Output power Measurement	Refer to Attachment3	EUT	Attachment 3	
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	Operating Frequency Measurement	Passed	EUT	Attachment 4	
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	Conducted Emission	Passed by 5.4 dB of QP Passed by 23.8 dB of AVE	AC Input Port	Attachment 5	
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	Radiated Emission	Passed by 16.03 dB of AVE	Enclosure	Attachment 6	

Load for Microwave Ovens

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 1000watts. 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.

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 EMC Compliance Management Group (China) test personnel.

EUT Sample Photos for model P10034AP



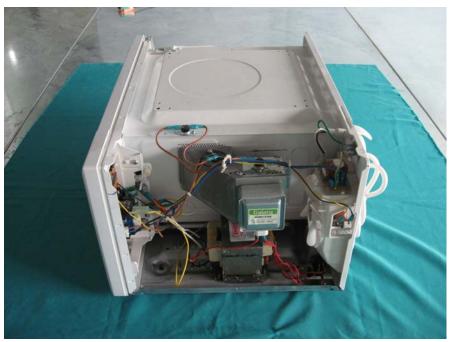
Front & Top View



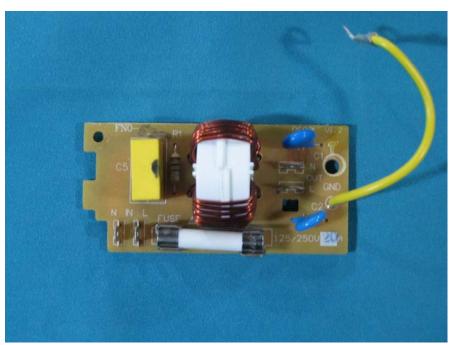
Rear View



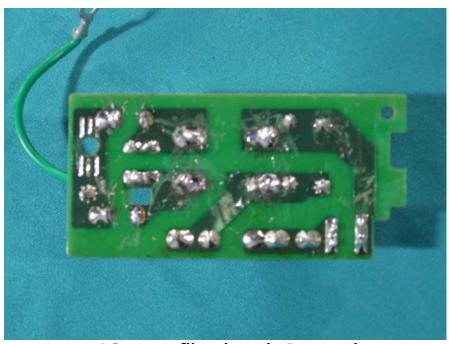
Door opened View



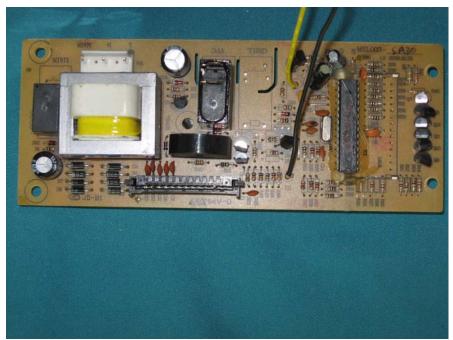
Uncovered View



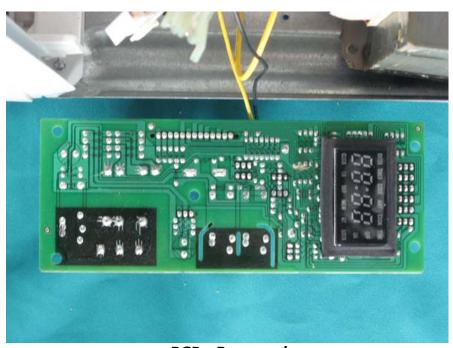
AC power filter board



AC power filter board - Reversed



PCB

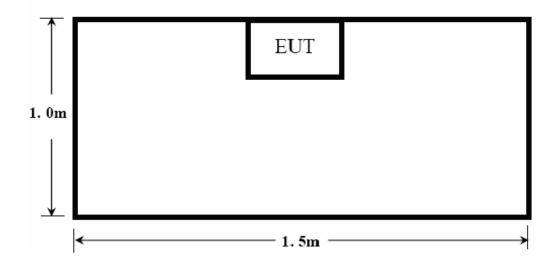


PCB - Reversed

Test System Details

EUT						
Model Numbers:	P10034X-2	7				
Model Tested:	P10034AP					
Description:	Microwave	o Oven				
Manufacturer:	Guangdon	g Galanz Ent	terprises C	o., Ltd.		
	Support Equipment					
		N/A				
	Cable Description					
Description	From To Length Shielded Ferrite (Meters) (Y/N) (Y/N)					
Power Cable	EUT	Plug	1.20	N	N	

Configuration of Tested System



ATTACHMENT 1 - RADIATION HAZARD TEST

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	P10034X-Z	PRODUCT:	Microwave Oven		
MODEL TESTED:	P10034AP	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22 ℃	HUMIDITY:	55%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	King Su	DATE OF TEST:	2007, March 15 th		
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OST	TMP-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 1000ml 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 0.0034 mW/cm2 observed at any point 5cm or more from the external surface of the oven. A maximum of 1.0mW/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 EMC Compliance Management Group (China) test personnel.				
M. UNCERTAINTY:	0.0001 mW/cm2				

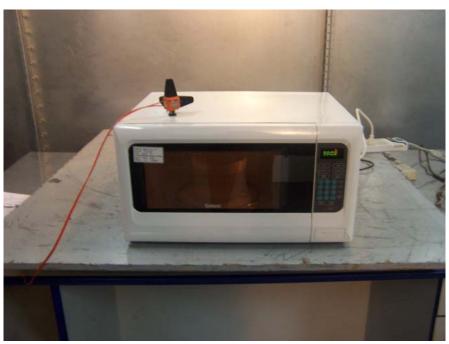
Test equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Field Monitor	R&S	AR FM5004	A0304252	25/05/06	24/05/07
Electric FieldProber	R&S	AR FP6001	A0304302	15/03/06	14/03/07

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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Radiation Hazard Test Set-up

ATTACHMENT 2 - INPUT POWER MEASUREMENT

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	P10034X-Z	PRODUCT:	Microwave Oven		
MODEL TESTED:	P10034AP	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22 ℃	HUMIDITY:	55%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	King Su	DATE OF TEST:	2007, March 15 th		
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 1000ml 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	12.58	1456	1450

Test equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Power frequency test system	Ainuo	AN8716PX	058704273	07/12/06	06/12/07

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 Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	P10034X-Z	PRODUCT:	Microwave Oven		
MODEL TESTED:	P10034AP	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22 ℃	HUMIDITY:	55%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	King Su	DATE OF TEST:	2007, March 15 th		
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 18C 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. RF Output Power = (4.2joules/calorie)(volume in milliliters)(temperature rise) / (time in seconds) = 4.2 joules/calorie × 1000 × (Final Temp – Initial Temp) / 120				
TESTED RANGE:	N/A				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	RF Output Power = 784watts				
	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)
120V/60Hz	19.10	41.50	120	784

Test equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Data Acquisition	TES	TES-1310	020907011	12/03/06	11/03/07

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 Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	P10034X-Z	PRODUCT:	Microwave Oven		
MODEL TESTED:	P10034AP	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22 ℃	HUMIDITY:	55%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	King Su	DATE OF TEST:	2007, March 15 th		
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OST	MP-5:1986			
TEST PROCEDURE:	The EUT was set up according Frequency Measurement. 1) The variation of frequency was the EUT at room temperature center of the oven. Set a speriorm the oven and the oven of fundamental operating frequency 20 percent of the original left. 2) The variation of frequency was operated/warmed by at least	cy with time. measured using a spect e, a 1000ml water load in ctrum analyzer with anter was operated at maximum ency was monitored until bad. cy with Line Voltage. measured using a spect	rum analyzer. Starting with a beaker was located in the nna at 3 meters distance n output power. The the water load was reduced rum 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.				
TESTED RANGE:	2450 ± 50MHz				
TEST VOLTAGE:	120VAC / 60Hz	3	_		
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 (China) test personnel.	installed by EMC Compli	ance Management Group		
M. UNCERTAINTY:	Freq. ±10kHz				

Variation in Operating Frequency with Time:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2460.4	2462.0

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2460.4	2462.4
Note: Line voltage varied from 96Vac to 150Vac.	

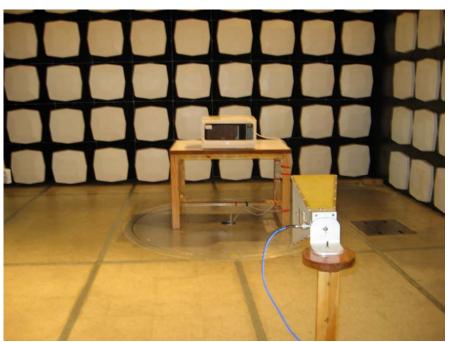
Test equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Vltra Broadband Antenna	ETS	3142C	00042672	04/12/06	03/12/07
Horn Antenna	ETS	3115	6587	04/07/06	03/07/07
EMI Receiver	R&S	FSP30	100755	04/12/06	03/12/07
5M Anechoic chamber	ETS	3m	N/A	19/03/05	18/03/07

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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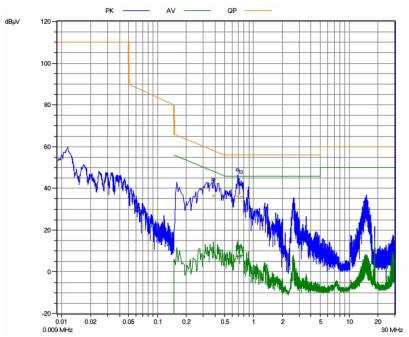
ENGINEER



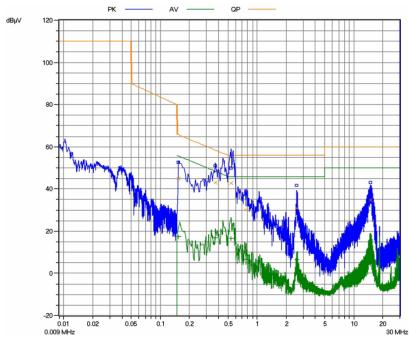
Operating Frequency Test Set-up

ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18			
MODEL NUMBERS:	P10034X-Z	PRODUCT:	Microwave Oven			
MODEL TESTED:	P10034AP	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	22 ℃	HUMIDITY:	55%RH			
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord			
TESTED BY:	King Su	DATE OF TEST:	2007, March 15 th			
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	120VAC / 60Hz				
RESULTS:	The EUT meets the requirements of test reference for Conducted Emissions on line N by 5.4 dB of Quasi-Peak detector and by 23.8 dB of Average detector. 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	Frequency [KHz]	Corrected QP Reading [dB _µ V]	Delta QP [dB]	Limit [dBµV/m]	Corrected AVE Reading [dB _µ V]	Delta AVE [dB]	Limit [dBµV/m]
L	0.3900	37.50	-20.6	58.10	/	/	48.10
L	0.6906	40.70	-15.3	56.00	/	/	46.00
L	0.7470	35.09	-20.91	56.00	/	/	46.00
N	0.4444	47.40	-9.6	57.00	21.10	-25.9	47.00
N	0.5300	50.60	-5.4	56.00	22.20	-23.8	46.00
N	0.5660	47.60	-8.4	56.00	20.50	-25.5	46.00

Note: All readings are using a bandwidth of 9 kHz, with a 30 ms sweep time.

Test equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI Receiver	SCHAFFNE	SMR4503	44	04/07/06	03/07/07
LISN	AGILENT	482512	1161	04/07/06	03/07/07

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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Conducted Emission Test Set-up

ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	P10034X-Z	PRODUCT:	Microwave Oven		
MODEL TESTED:	P10034AP	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	55%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	King Su	DATE OF TEST:	2007, March 15 th		
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OST	MP-5:1986			
TEST PROCEDURE:	The EUT was set up according 5 for radiated emissions. Mich nonconductive table. The top placed on a flush mounted m	rowave oven was placed of the table is 1.0 m abo	on a 1m *1.5m		
	An EMI receiver peak scan was made at the frequency measurement range (prescan) 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 sign correction factors (including corrected readings against the given as follows:	able and antenna correc	tion factors), and the		
	FS= RA + AF + CF - AG				
	Where: FS = Field Strength				
	RA = Receiver Amplitude				
	AF = Antenna Factor				
	CF = Cable Attenuation Factor	or			
	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 on Vertical polarization by 16.03 dB of Average detector at 4.9151 GHz. The test results relate only to the equipment under test provided by client.				
Changes or Modifications:	There were no modifications (China) test personnel.	There were no modifications installed by EMC Compliance Management Group (China) test personnel.			
M. UNCERTAINTY:	± 3.2 dB				

30MHz – 1GHz					
Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dBµV/m]	Delta, QP [dB]	3 Meters Limits [dBμV/m]	
70.6000	Н	17.80	-52.12	69.92	
121.6000	Н	19.30	-50.62	69.92	
266.2000	Н	37.90	-32.02	69.92	
121.6000	V	18.30	-51.62	69.92	
214.6000	V	26.70	-43.22	69.92	
257.2000	V	30.40	-39.52	69.92	

Note: All readings are quasi-peak unless stated otherwise, using a bandwidth of 120 kHz, with a 30 ms sweep time. A video filter was not used.

1GHz - 25GHz

	13.12 233.12						
Frequency [GHz]	Antenna Polarization [V/H]	Corrected Reading [dBµV/m]	Delta, AVE [dB]	3 Meters Limits [dBμV/m]			
4.9190	н	51.44	-18.48	69.92			
7.3856	Н	47.21	-22.71	69.92			
9.8365	Н	49.74	-20.18	69.92			
4.9151	V	53.89	-16.03	69.92			
7.3809	V	48.02	-21.90	69.92			
14.8074	V	51.71	-18.21	69.92			

Comments: None

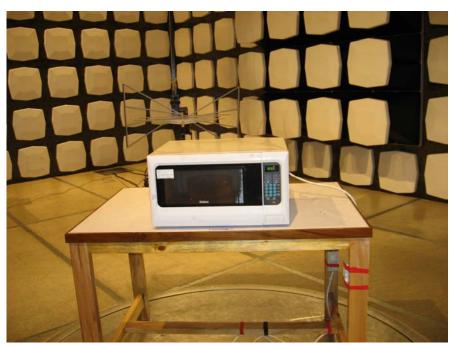
Note: All readings are average unless stated otherwise, using a bandwidth of 1MHz, with a 30 ms sweep time. A video filter was not used.

Test equipments list:

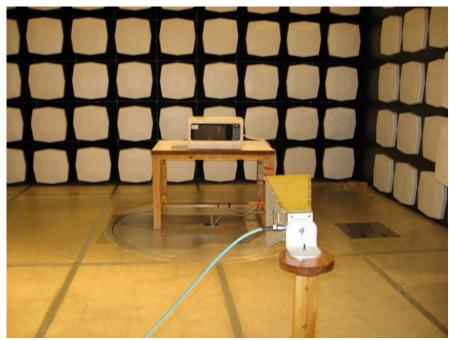
Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Vltra Broadband Antenna	ETS	3142C	00042672	20/07/06	19/07/07
Horn Antenna	ETS	3115	6587	04/07/06	03/07/07
Band-pass Filter	Micro-Tronics	BRM50702	SIN-030	04/07/06	03/07/07
EMI Receiver 1	SCHAFFNE	SMR4503	44	04/07/06	03/07/07
Semi-anechoic chamber	ETS	3m	N/A	19/03/05	18/03/07
EMI Receiver 2	R&S	FSP30	100755	04/12/06	03/12/07

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:



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



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