



EMI Test Report

On Model Name: Microwave oven Model Numbers: P80D20X-Z Brand Name: Galanz FCC ID: UHW8020001

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

Paul Chen

Test Report #: Prepared by: Reviewed by: QC Manager:

PSZ-0703-0344-FCC+ID Ravin Su Ivan Wen

2007, March 28

Test Report Released by:

Paul Chen

Date

List Attached Files

Exhibit Type	File Description	File Name
Test Report	Test Report	UHW8020001
		_Test report.pdf
Operation	Technical Description	UHW8020001
Description		_operation description.pdf
External Photos	External Photos	UHW8020001
		_External Photos
Internal Photos	Internal Photos	UHW8020001
		_Internal Photos
Block Diagram	Block Diagram	UHW8020001
		_Block Diagram.pdf
Schematics	Circuit Diagram	UHW8020001
		_Schematics.pdf
ID Label/Location	Label Artwork and Location	UHW8020001
		_Label & Location.pdf
User Manual	User Manual	UHW8020001
		_User Manual.pdf
Test setup photos	Test setup photos	UHW8020001
		_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,
Tali	Guangdong, China. 86-757-23612785
Tel:	
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. FCC Registration #: 894293.



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	: P80D20X-Z
Model Tested	: P80D20AL-D5
Brand Name	: Galanz
Date Tested	: 2007, March 15 th
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 P80D20AL-D5 (referred to the EUT in this report) is a Microwave Oven.

Specifications:

Model Number:	P80D20AL-D5
Power Consumption:	120V~60Hz, 1200W
Output	800W
Operation Frequency	2450MHz
Magnetron Manufacturer	Galanz
Magnetron Model Number	FN0-4C00
Outside Dimensions (H×W×D)	10 5/16×17 13/16×14 3/8 inches.
Outside Dimensions (H×W×D):	8 11/16×12 3/8×12 3/8 inches.
Oven Capacity	0.7 cu.ft.
Cooking Uniformity	Turntable System (Φ 9 5/8")
Net Weight	Approx. 23.8lbs.

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P80D20X-Z model designations:

P: denotes only the Microwave functions.

80: denotes the output power is 800W.

D: denotes the style of the oven.

20: denotes different capacity in 20 liters.

X may be J, AJ, L, AL, EL, P, AP, EP. J and L denote pull-out type door, P denotes the push-down type door. When there is no letter before "J, L, P" denotes mechanical control model, when there is "A" or "E" denotes the electrical control model.

Z may be D2, D3, D4, D5, D6, D7, D8, T1, T5, T6, T8, TL1, M1, FY1, DF, DI, DG, DB, KE2, DK, A3, Q2, denotes the different appearance.

Test Summary

The Electromagnetic Compatibility requirements on model tested P80D20AL-D5 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 0.0015mW/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 17.8dB of QP	AC Input Port	Attachment 5	
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4: 2003	Radiated Emission	Passed by 17.08dB 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 P80D20AL-D5



Front & Top View



Rear View

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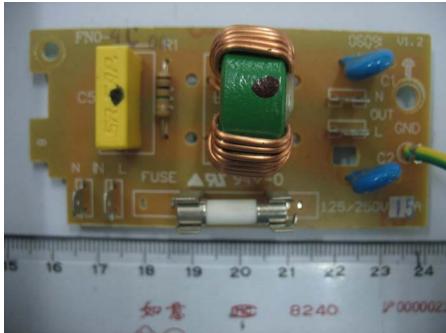


Door opened View

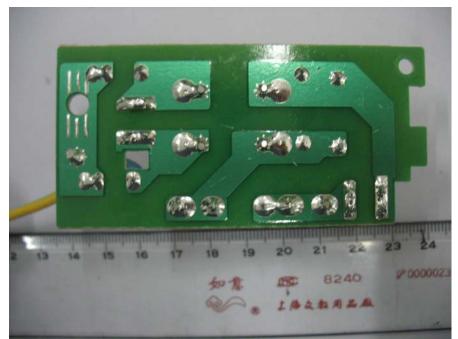


Uncovered View

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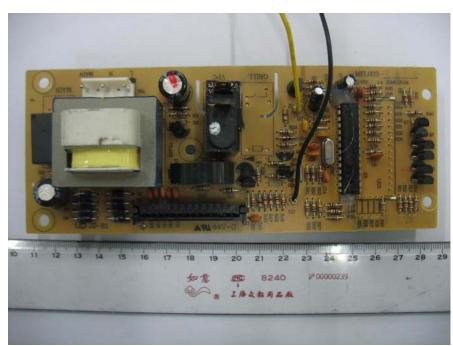


AC power filter board

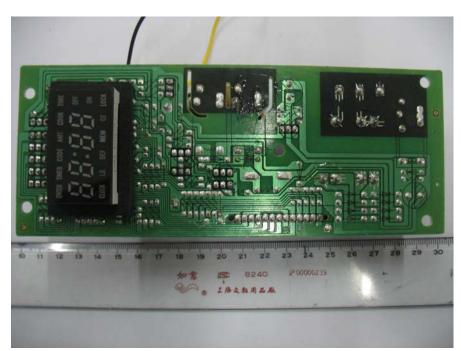


AC power filter board - Reversed

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РСВ



PCB - Reversed

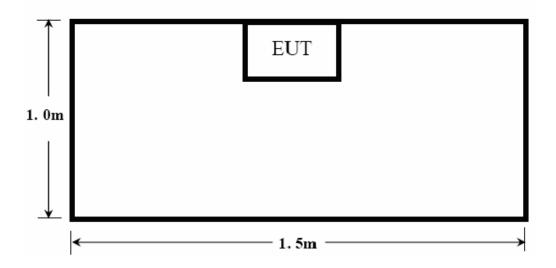
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Test System Details

EUT						
Model Numbers:	P80D20X-2	P80D20X-Z				
Model Tested:	P80D20AL	-D5				
Description:	Microwave	e Oven				
Manufacturer:	Guangdong Galanz Enterprises Co., 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	Ν	

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ATTACHMENT 1 - RADIATION HAZARD TEST

CLIENT:	Guangdong Galanz	TEST STANDERD:	FCC Part 18		
CLIENT.	Enterprises Co., Ltd.	TEOT OTANDERD.			
MODEL NUMBERS:	P80D20X-Z	PRODUCT:	Microwave Oven		
MODEL TESTED:	P80D20AL-D5	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	Г 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 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 0.0015 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 tes	st provided by client.		
Changes or Modifications:	There were no modifications (China) test personnel.	installed by EMC Compli	ance Management Group		
M. UNCERTAINTY:	0.0001 mW/cm2				

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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).

king m SIGNED BY:

ENGINEER

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Radiation Hazard Test Set-up

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ATTACHMENT 2 - INPUT POWER MEASUREMENT

CLIENT :	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	P80D20X-Z	PRODUCT:	Microwave Oven		
MODEL TESTED:	P80D20AL-D5	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 (China) test personnel.	There were no modifications installed by EMC Compliance Management Group (China) test personnel.			
M. UNCERTAINTY :	± 5W				

Test Data:

Input Voltage	Input Current	Measured Input Power	Rated Input Power
(Vac/Hz)	(amps)	(watts)	(watts)
120V	11.07	1248	1300

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

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ATTACHMENT 3 - RF OUTPUT POWER MEASUREMENT

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18
MODEL NUMBERS:	P80D20X-Z	PRODUCT:	Microwave Oven
MODEL TESTED:	P80D20AL-D5	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 accordir power Measurement. The Ca output power. The initial temp water load in a beaker was lo operated at maximum output was re-measured. RF Output Power = (4.2joules/calorie)(volume = 4.2 joules/calorie × 1000 ×	Ioric Method was used to berature of the water load cated in the center of the power for 120 seconds, in milliliters)(temperature	o determine maximum RF d was measured. A 1000ml e oven. The oven was the temperature of the water e rise) / (time in seconds)
TESTED RANGE:	N/A		
TEST VOLTAGE:	120VAC / 60Hz		
RESULTS:	RF Output Power = 665watts		
	The test results relate only to	the equipment under tes	st provided by client.
Changes or Modifications:	There were no modifications (China) test personnel.	installed by EMC Compli	ance Management Group
M. UNCERTAINTY:	± 0.3°C		

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Test Data:

Quality of Water	Starting	Final	Elapsed Time	RF Output Power
(ml)	Temperature (℃)	Temperature (℃)	(Seconds)	(watts)
120V/60Hz	21.9	40.9	120	665

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

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ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

			1
CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18
MODEL NUMBERS:	P80D20X-Z	PRODUCT:	Microwave Oven
MODEL TESTED:	P80D20AL-D5	EUT DESIGNATION:	Home or Office
TEMPERATURE:	22 °C	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 accordir Frequency Measurement.	ng to the FCC MP-5 and	FCC Part 18 for Operating
	1) The variation of frequence	cy with time.	
	The operating frequency was the EUT at room temperature center of the oven. Set a spe form the oven and the oven v fundamental operating freque to 20 percent of the original le 2) The variation of frequency The operating frequency was operated/warmed by at least temperature at the beginning monitored as the input voltag nominal rating.	e, a 1000ml water load in ctrum analyzer with ante was operated at maximur ency was monitored until bad. cy with Line Voltage. measured using a spect 10 minutes of use with a of the test. Then the ope	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 1000ml water load at room erating frequency was
TESTED RANGE:	$2450\pm50 \text{MHz}$		
TEST VOLTAGE:	120VAC / 60Hz		
RESULTS:	Please refer to following page with time & line voltage meas The test results relate only to	urement.	
Changes or Modifications:	There were no modifications (China) test personnel.	installed by EMC Compli	ance Management Group
M. UNCERTAINTY:	Freq. ±10kHz		

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Variation in Operating Frequency with Time:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2468.8	2469.0

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2462.2	2468.8
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).

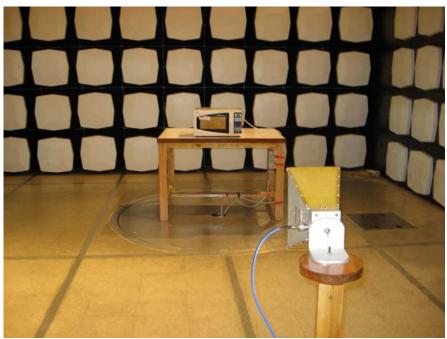
SIGNED BY:

king m

ENGINEER

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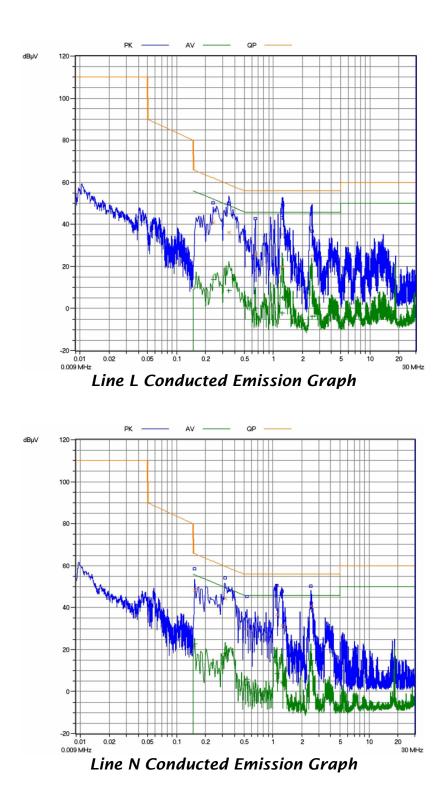


Operating Frequency Test Set-up

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ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18
MODEL NUMBERS:	P80D20X-Z	PRODUCT:	Microwave Oven
MODEL TESTED:	P80D20AL-D5	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 accordin for conducted emissions. Th an EMI receiver peak scan w six highest significant peaks peaked and averaged. The f 30MHz.	e measurement was usir as made at the frequenc were then marked, and th	ng a AMN on each line and y measurement range. The nese signals were then quasi-
TESTED RANGE:	150kHz to 30MHz		
TEST VOLTAGE:	120VAC / 60Hz		
RESULTS:	The EUT meets the requirem line N by 17.8 dB of Quasi-Po		Conducted Emissions on
	The test results relate only to	the equipment under tes	st provided by client.
Changes or Modifications:	There were no modifications (China) test personnel.	installed by EMC Compli	ance Management Group
M. UNCERTAINTY:	±2.5 dB		



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Test data:

Line	Frequency [KHz]	Corrected QP Reading [dBµV]	Delta QP [dB]	Limit [dBµV/m]	Corrected AVE Reading [dBµV]	Delta AVE [dB]	Limit [dBµV/m]
L	0.3478	34.40	-24.6	59.00	/	/	49.00
L	1.2398	36.90	-19.1	56.00	/	/	46.00
L	2.5094	26.40	-29.6	56.00	/	/	46.00
Ν	0.3174	42.00	-17.8	59.80	/	/	49.80
Ν	1.0774	37.20	-18.8	56.00	/	/	46.00
Ν	2.4774	31.40	-24.6	56.00	/	/	46.00
Note: A	Il readings are	using a bandwid	dth of 9 kHz,	with a 30 ms s	sweep time.		

Test equipments list:

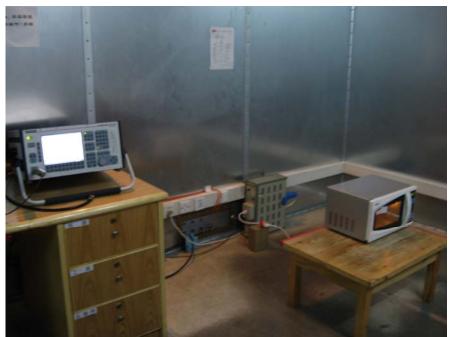
Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI Receiver	SCHAFFNE	SMR4503	44	04/07/06	03/07/07
LISN	AGILENT	482512	1161	04/07/06	03/07/07

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

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[
CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18
MODEL NUMBERS:	P80D20X-Z	PRODUCT:	Microwave Oven
MODEL TESTED:	P80D20AL-D5	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 accordir 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 w scan) in an Anechoic chambe significant peaks marked. All from 30 MHz to 1GHz and av	er. Signal discrimination v data was recorded in Qu	was then performed and the asi-peak detection mode
	The following data lists the signal 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 require Horizontal polarization by 17 results relate only to the equi	.08 dB of Average detect	ctor at 9.8384 GHz. The test
Changes or Modifications:	There were no modifications (China) test personnel.	installed by EMC Com	pliance Management Group
M. UNCERTAINTY:	± 3.2 dB		

ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

Test Report #: PSZ-0703-0344-FCC+ID Prepared for Guangdong Galanz Enterprises Co., Ltd. Prepared by EMC Compliance Management Group

	30)MHz – 1GH	Z	
Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dBµV/m]	Delta, QP [dB]	3 Meters Limits [dBµV/m]
107.8000	н	29.10	-40.10	69.20
212.8000	н	36.70	-32.50	69.20
233.2000	н	42.70	-26.50	69.20
55.0000	V	36.20	-33.00	69.20
173.2000	V	39.00	-30.20	69.20
170.2000				
178.0000 te: All readings	V are quasi-peak unles A video filter was no		-	69.20 n of 120kHz, wit
178.0000 te: All readings ms sweep time. Frequency	are quasi-peak unles A video filter was no 10 Antenna	ss stated otherwise it used. GHz – 25GH Corrected	, using a bandwidth Z Delta, AVE	of 120kHz, wit
178.0000 te: All readings ms sweep time.	are quasi-peak unles A video filter was no 10	ss stated otherwise it used. GHz – 25GH	, using a bandwidth	of 120kHz, wit
178.0000 te: All readings ms sweep time. Frequency	are quasi-peak unles A video filter was no 10 Antenna Polarization	ss stated otherwise at used. GHz – 25GH Corrected Reading	, using a bandwidth Z Delta, AVE	of 120kHz, wit
178.0000 te: All readings ms sweep time. Frequency [GHz]	are quasi-peak unles A video filter was no 10 Antenna Polarization [V/H]	ss stated otherwise at used. GHz – 25GH Corrected Reading [dBμV/m]	, using a bandwidth Z Delta, AVE [dB]	a of 120kHz, wit 3 Meters Limits [dBµV/m]
178.0000 te: All readings ms sweep time. Frequency [GHz] 4.9087	are quasi-peak unles A video filter was no 10 Antenna Polarization [V/H] H	Stated otherwise trused. GHz – 25GH Corrected Reading [dBμV/m] 42.81	, using a bandwidth Z Delta, AVE [dB] -26.39	3 Meters Limits [dBµV/m] 69.20
178.0000 te: All readings ms sweep time. Frequency [GHz] 4.9087 7.3921	are quasi-peak unles A video filter was no 1 Antenna Polarization [V/H] H H	ss stated otherwise ti used. GHz – 25GH Corrected Reading [dBµV/m] 42.81 45.20	, using a bandwidth Z Delta, AVE [dB] -26.39 -24.00	а of 120kHz, wit 3 Meters Limits [dBµV/m] 69.20 69.20
178.0000 te: All readings ms sweep time. Frequency [GHz] 4.9087 7.3921 9.8384	are quasi-peak unles A video filter was no 1 Antenna Polarization [V/H] H H H	Stated otherwise ss stated otherwise ti used. GHz – 25GH Corrected Reading [dBμV/m] 42.81 45.20 51.32	, using a bandwidth	3 Meters Limits [dBµV/m] 69.20 69.20

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:

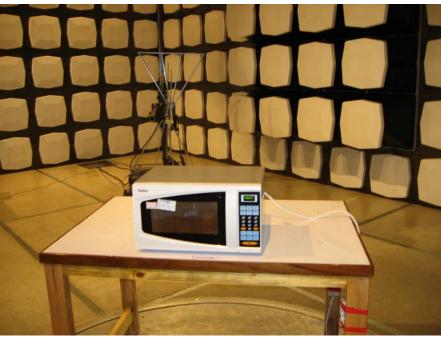
Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Vltra Broadband Antenna	ETS	3142C	00042672	20/07/06	19/07/07
Horn Antenna	ETS	3115	6587	04/07/06	03/07/07
Band-pass Filter	Micro-Tronics	BRM50702	SIN-030	04/07/06	03/07/07
EMI Receiver 1	SCHAFFNE	SMR4503	44	04/07/06	03/07/07
Semi-anechoic 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).

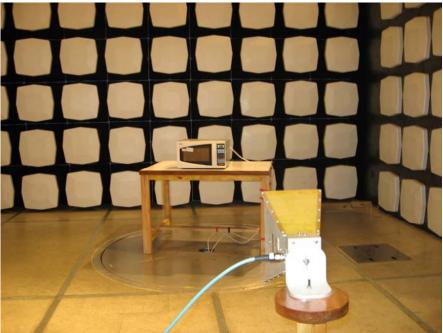
SIGNED BY: ENGINEER

Test Report #: PSZ-0703-0344-FCC+ID Prepared for Guangdong Galanz Enterprises Co., Ltd. Prepared by EMC Compliance Management Group

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



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

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