### FCC CFR47 PART 18 SUBPART C

# ISM EQUIPMENT

### **TEST REPORT**

#### **FOR**

#### MICROWAVE OVEN

Model: P70B20(X)II-(Y) (Testing case: P70B20APII-D8)

Magnetron Model: Galanz, M24FA-410A

**Brand Name: Galanz** 

**Test Report No.: 11CA12022-02** 

FCC ID: UHW7020004

### **Prepared for**

GUANGDONG GALANZ ENTERPRISE (GROUP)CO.,LTD.

25 RONGGUI NAN ROAD, RONGGUI SHUNDE, GUANGDONG

#### P.R.C.528305

#### **ACCORDING TO**

FCC PART 18 INDUSTRIAL, SCIENTIFIC AND MEDICAL EQUIPMENT

&

FCC/0ST MP-5(1986) FCC METHODS OF MEASUREMENTS OF RADIO NOISE EMISSION FROM INDUSTRIAL, SCIENTIFIC AND MEDICAL EQUIPMENT

12/02/2011	
	12/02/2011_ Date

# **List Attached Files**

Exhibit Type	File Description	File Name
	•	UHW7020004
Test report	Test report	-Test report .pdf
		UHW7020004
<b>Operation Description</b>	<b>Operational Description</b>	-Operational description .pdf
		UHW7020004
<b>External Photos</b>	<b>External Photos</b>	-External photos .pdf
		UHW7020004
Internal Photos	<b>Internal Photos</b>	-Internal photos .pdf
		UHW7020004
Block Diagram	Block Diagram	-Block diagram .pdf
		UHW7020004
<b>Schematics Diagram</b>	<b>Schematics Diagram</b>	-Schematics .pdf
		UHW7020004
ID Label/ Location	ID Label/ Location	-label & location .pdf
		UHW7020004
User Manual	<b>User Manual</b>	-User manual .pdf
		UHW7020004
<b>Test setup Photos</b>	<b>Test setup Photos</b>	-Test setup photos .pdf
		UHW7020004
Part List	Part List	- Part list .pdf

### **Test Location**

Tests performed at Galanz in a certified Ansi Semi-Anechoic Chamber and Shielded Room.

Test Site Location EMC Laboratory Guangdong Galanz Enterprises Co., Ltd 25 South Ronggui Rd., Shunde, Foshan, Guangdong, China.

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

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 Number: 580210

# **Table of Contents**

GOVERNMENT DISCLAIMER NOTICE	4
REPRODUCTION CAUSE	4
OPINIONS AND INTERPRETATIONS	4
STATEMENT OF MEASUREMENT UNCERTAINTY	4
ADMINISTRATIVE DATA	5
EUT DESCRIPTION	5
TYPE OF DERIVER	6
TEST SUMMARY	7
LORD FOR MWO	8
EQUIPMENT MODIFICATION	8
EUT SAMPLE PHOTOS FOR MODEL	9
TEST SYSTEM DETAILS	14
CONFIGURATION OF TESTED SYSTEM	15
ATTACHMENT 1- RADIATION HAZARD TEST	16
ATTACHMENT 2-INPUT POWER MEASUREMENT	19
ATTACHMENT 3-RF OUTPUT POWER MEASUREMENT	22
ATTACHMENT 4- OPERATING FREQUENCY MEASUREMENT	25
ATTACHMENT 5-CONDUCTED EMISSION TEST RESULTS	28
ATTACHMENT 6-RADIATED EMISSION TEST RESULTS	33

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### **Opinions and Interpretations**

This test report relates to the above mentioned equipment under test (EUT). Without permission of EMC Laboratory of Guangdong Galanz Enterprises Co., Ltd, this 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 November 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 November result in additional deviation.

### **Administrative Data**

Test Sample Microwave oven
Model Numbers P70B20(X)II-(Y)
Model Tested P70B20APII-D8

**Brand Name** Galanz

Date Tested November 26, 2011—November 28, 2011
Applicant Guangdong Galanz Enterprises Co., Ltd.

25 ronggui nan Rd., Shunde, Foshan, Guangdong, China

**Telephone** 86-757-23612785 **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 P70B20APII-D8 (Refer to the EUT in this report) is a Microwave Oven.

### **Specifications:**

Power consumption	120Vac 60Hz, 1050W(Microwave)
Output	700W
Operation frequency	2450Hz
Magnetron brand	Galanz
Magnetron number	M24FA-410A
Outside dimensions(HxWxD)	$10^{5}/_{16} \times 17^{10}/_{16} \times 13^{3}/_{16}$ in.
Cavity dimensions(HxWxD)	$7^{13}/_{16} \times 12^{3}/_{8} \times 11^{9}/_{16}$ in.
Capacity	0.7cu.ft
Cooking uniformity	Turntable System
Net weight	Approx. 23.1 lb.

# **Type of Deriver**

P70B20(X)II-(Y)model designations:

P: With Microwave functions only.

70: denote the output power is 700W

B20: denote different capacity in 20 liters.

II: mean the capacity type.

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

# **Test Summary**

The Electromagnetic Compatibility Requirements on model tested P70B20APII-D8 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 sub-system used in the test set-up

	<b>Emission Tests</b>			
Specifications	Description	Test results	Test point	Remark
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	Input Power Measurement	Passed	AC Input Port	Attachment 2
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	RF Output Power Measurement	Passed	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	AC Input Port	Attachment 5
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	Radiated Emission	Passed	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 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 1000 watts or less power output, the beaker contained quantities of water as listed in the following subparagraphs, for ovens rated at more than 1000 watts output, each quantity was increased by 50% for each 500 watts 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 ovens

### **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

# **EUT Sample Photos for model**



Front view



Door open view



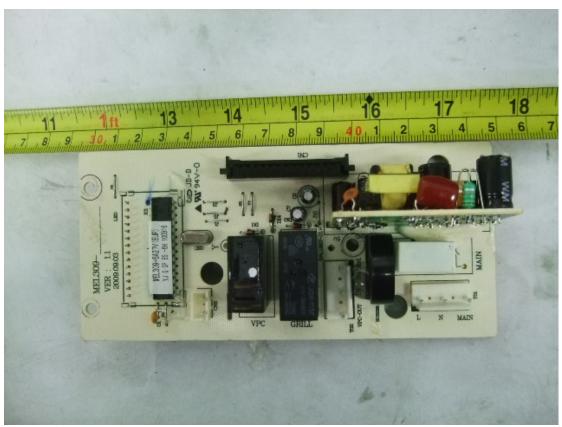
Rear View of EUT



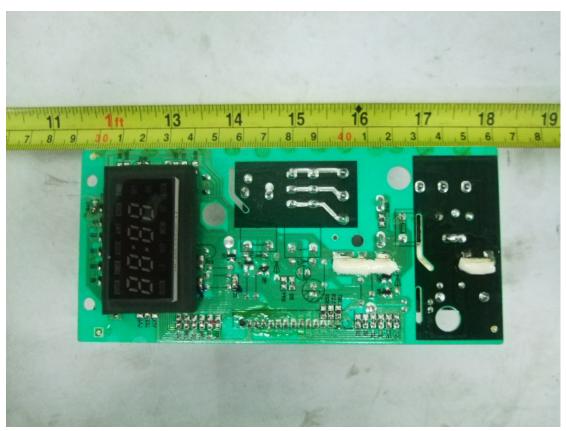
**Uncovered View from right side** 



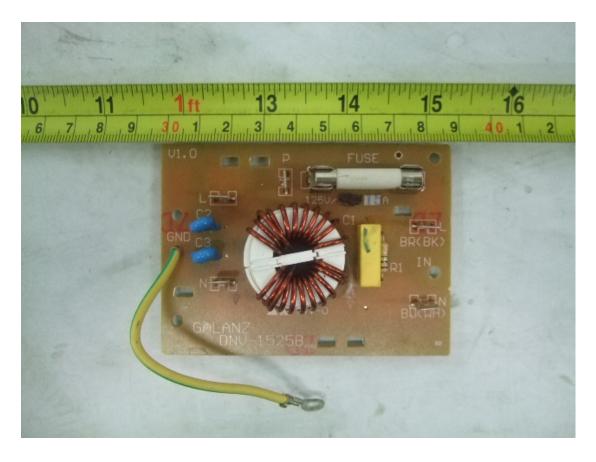
**Uncovered View from top side** 



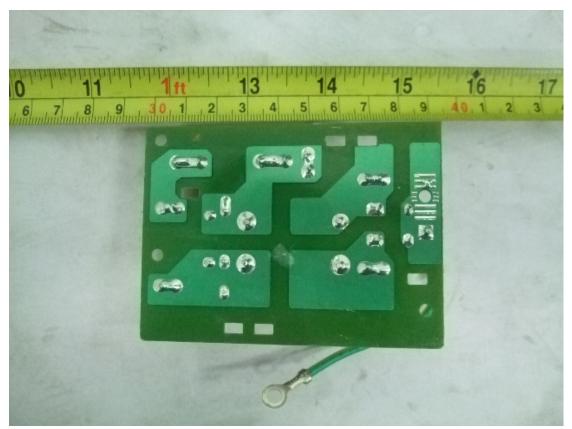
Front view of Main board



Back view of Main board



Front View of AC power filter board



Back of View AC power filter board

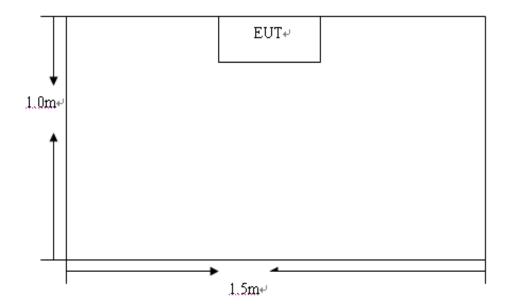


**View of Magnetron** 

# **Test System Details**

EUT					
Model Numbers	P70B20	(X)II-(Y)			
Model tested	P70B20	APII-D8			
Description	Microw	ave Oven			
Manufacturer	Guangd	long Galanz H	Enterprises C	o., Ltd	
	•	Support	Equipment		
		N	I/A		
		Cable D	escription		
Description	From To Length Shielded Ferrite				Ferrite
			Meters	Y/N	Y/N
Power cord	EUT	Plug	1.05	N	N

# **Configuration of Tested System**



# ATTACHMENT 1-RADIATION HAZARD TEST

Client: Guangdong Galanz Enterprises Co Ltd		Test Standard: FCC Part 18	
Model Numbers: P	70B20(X)II-(Y)	<b>Product: Microwave Oven</b>	
Model Tested: P70E	320APII-D8	<b>EUT Designation: Home or Office</b>	
<b>Temperature: 24℃</b>		Humidity: 48%RH	
ATM Pressure: 101	kPa	Grounding: Through AC power cord	
Tested By: Daomen	Guan	Date of Test: November 26,2011	
Test Reference	ANSI C63.4: 2003, I	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 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		
<b>Tested Range</b>	N/A		
Test Voltage	120VAC/60Hz		
Results	There was no microwave leakage exceeding a power level of 0.08mW/cm <sup>2</sup> observed at any point 5cm or more from the external surface of the oven.		
	A maximum of 1.0 mW/cm <sup>2</sup> 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 Galanz test personnel		
M. Uncertainty	0.01mW/cm <sup>2</sup>		

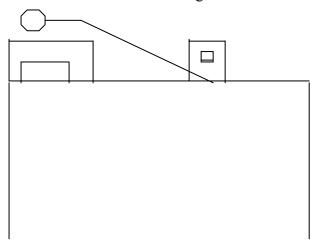
# **Test Equipment List**

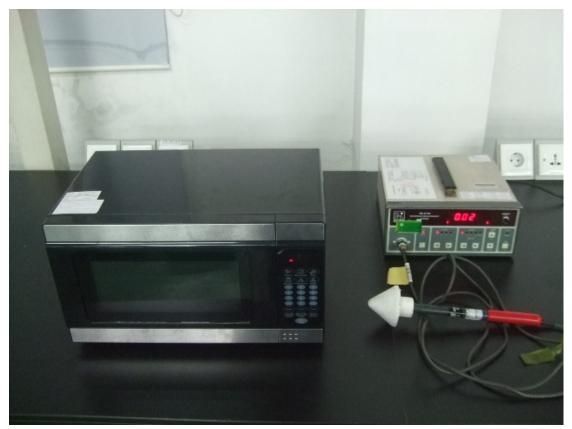
Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Equipment					
Field Monitor	ETS	AR FM5004	A0304252	2011-01-21	2013-01-20
Electric Field	ETS	AR FP6001	A0304302	2011-01-21	2013-01-20
probe					

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

### **Radiation Hazard Test Set-up**

Microwave Leakage Tester





**Radiation Hazard Test Setup** 

# ATTACHMENT 2-INPUT POWER MEASUREMENT

Client: Guangdong Galanz Enterprises Co Ltd		Test Standard: FCC Part 18	
Model Numbers: P	70B20(X)II-(Y)	Product: Microwave Oven	
Model Tested: P70F	320APII-D8	<b>EUT Designation: Home or Office</b>	
Temperature: 24℃		Humidity:48%RH	
ATM Pressure: 101	kPa	Grounding: Through AC power cord	
Tested By: Daomen	Guan	Date of Test: November 26,2011	
Test Reference	ANSI C63.4: 2003 , FC	C/OST MP-5:1986	
Test Procedure	The EUT was set up according to the FCC MP-5 and 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 ampere-meter to test the AC input voltage and current.		
<b>Tested Range</b>	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 Galanz test personnel		
M. Uncertainty	±5W		

### **Test Data**

Input Voltage	Input Current	Measured Input	Rated input
Vac/Hz	amps	power(watt)	power( watt )
120V/60Hz	9.30	1080	1050

# **Test Equipment List**

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
Power frequency test system	Ainuo	AN8716PX	058704273	2011-07-06	2012-07-06

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



**Input Power Test Setup** 

# ATTACHMENT 3-RF OUTPUT POWER MEASUREMENT

Client: Guangdong Galanz Enterprises Co Ltd		Test Standard: FCC Part 18	
Model Numbers: P70B20(X)II-(Y)		<b>Product: Microwave Oven</b>	
Model Tested: P70F	B20APII-D8	<b>EUT Designation: Home or Office</b>	
Temperature: 24℃		Humidity: 48%RH	
ATM Pressure: 101	kPa	Grounding: Through AC power cord	
Tested By: Daomen	Guan	Date of Test: November 26,2011	
Test Reference	ANSI C63.4: 2003 , FC	C/OST MP-5:1986	
Test Procedure	The EUT was set up according to the FCC MP-5 and 18 for RF power measurement, The Caloric method was used to determine maximum RF output power.  1) A 1000ml water load in a beaker is located in the center of the oven.  2) Measure and record the initial temperature of the 1000ml water load.  3) Start and keep the oven operating at maximum output power for 120 seconds.  4) At the end of the 120 seconds, measure and record the final temperature of the 1000ml water load.  5) Calculate the RF output power		
Tested Range	N/A		
Test Voltage	120VAC/60Hz		
Results	RF output power =640.5W  The test results relate only to the equipment under test provided by client		
Changes or Modifications	There were no modifications installed by Galanz test personnel.		
M. Uncertainty	±0.3℃		

### **Test Data**

Quality	of	Starting	Final	Elapsed time	RF output
water(ml)		temperature(°C)	temperature(°C)	(seconds)	power(watt)
1000		18.0	36.3	120	640.5

### **Test Equipment List**

Test equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Data Acquisition	TES	TES-1310	021108782	2011-04-04	2012-04-04

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



RF Output Power Test Set-up

# ATTACHMENT 4-OPERATING FREQUENCY MEASUREMENT

Client: Guangdong Galanz Enterprises Co Ltd Model Numbers: P70B20(X)II-(Y)		Test Standard: FCC Part 18  Product: Microwave Oven	
Temperature: 24℃		Humidity: 48%RH	
ATM Pressure: 100	.9kPa	Grounding: Through AC power cord	
Tested By: Daomen	Guan	Date of Test: November 26,2011	
Test Reference	ANSI C63.4: 2003 , FC	C/OST MP-5:1986	
Test Procedure	The EUT was set up according to the FCC MP-5 and 18 for Operating Frequency measurement  1) The Variation of frequency with time The operating frequency was measured using a spectrum analyzer starting with EUT at room temperature, a 1000ml water load in a breaker was located in the center of the oven, set a spectrum analyzer with antenna at 3 meters distance from the oven and oven was operated a 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 1000ml water load at room temperature at the beginning of the test. Then the operating frequency was monitored as the input voltage was		
<b>Tested Range</b>	varied between 80 and 125 percent of the nominal rating 2450±50MHz		
<b>Test Voltage</b>	120VAC/60Hz		
Results	Refer to following pages for details of the variation in operating frequency with time & line voltage measurement		
Changes or There were no modifications		tions installed by Galanz test personnel.	
M. Uncertainty	Freq. ± 10kHz		

### Test data

# **Variation in Operating Frequency with Time**

Minimum Frequency(MHz)	Maximum Frequency(MHz)	
2417.0	2473.6	

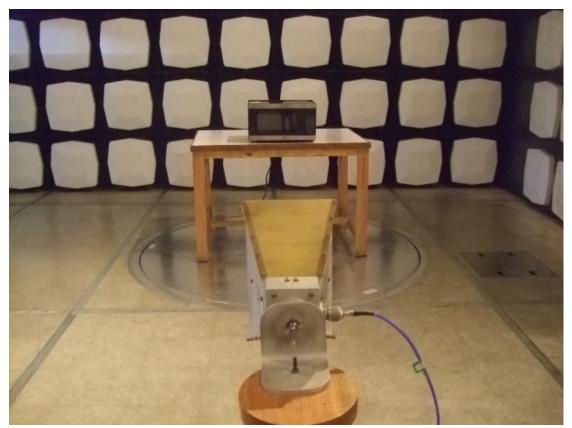
### **Variation in Operating Frequency with Line Voltage**

Minimum Frequency(MHz)	Maximum Frequency(MHz)		
2417.8	2482.2		
Note: Line voltage varied from 96Vac to 150Vac			

# **Test Equipment List**

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
Horn Antenna	ETS	3115	6587	2010-08-02	2012-08-02
Spectrum Analyzer	R&S	FSP30	100755	2011-11-09	2012-11-09
3m Anechoic chamber	ETS	N/A	N/A	2011-05-23	2013-05-23

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



**Operating Frequency Test Set-up** 

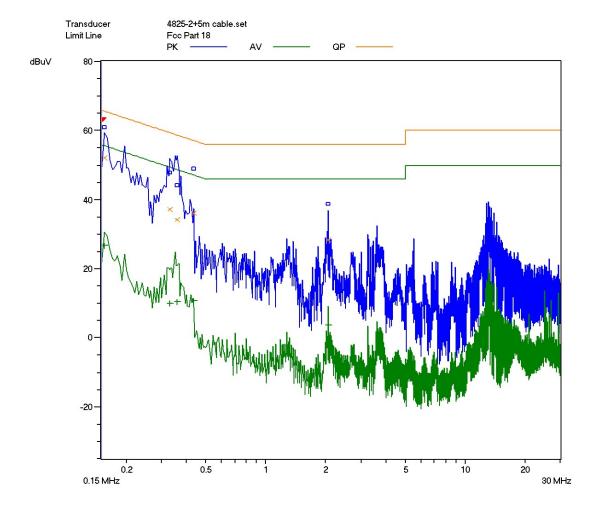
# ATTACHMENT 5-CONDUCTED EMISSION TEST RESULTS

Client: Guangdong Galanz Enterprises Co Ltd		Test Standard: FCC Part 18	
Model Numbers: P'	70B20(X)II-(Y)	Product: Microwave Oven  EUT Designation: Home or Office  Humidity: 48%RH  Grounding: Through AC power cord	
Model Tested: P70F	320APII-D8		
Temperature: 24℃			
ATM Pressure: 100	.9kPa		
Tested By: Daomen	Guan	Date of Test: November 26, 2011	
Test Reference	ANSI C63.4: 2003 , FC	C/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 emission, 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 peak were then marked, and these signals were then quasi peaked and averaged. The frequency range investigated was from 150kHz to 30MHz		
<b>Tested Range</b>	150kHz to 30MHz		
Test Voltage	120VAC/60Hz		
Results	The EUT meets the requirements of test reference for conducted Emission on line N by $12.8dB\mu V$ of Quasi-peak detector and by $28.3$ dB $\mu V$ of Average detector.		
Changes or Modifications	There were no modifications installed by Galanz test personnel.		
M. Uncertainty	±2.5dB		

CE-L	.res
CE	L

Title	CE L
Туре	Microwave Oven
EUT / Ser.No.	P79B20APII-D8
Manufacturer	Galanz
Condition	Full Power Of Microwave Mode
Operator	Daomen

Frequency Rang	Range 1	
Start Frequency	150 kHz	
Stop Frequency		30 MHz
Step Frequency		5 kHz
Attenuator		Auto
Detector	(Pre)	AV CISPR
IF Bandwidth	(Pre)	9 kHz
Measure Time	(Pre)	10 ms
Detector	(Final)	QP
IF Bandwidth	(Final)	9 kHz
Measure Time	(Final)	1 s
Sub Ranges	(Final)	20

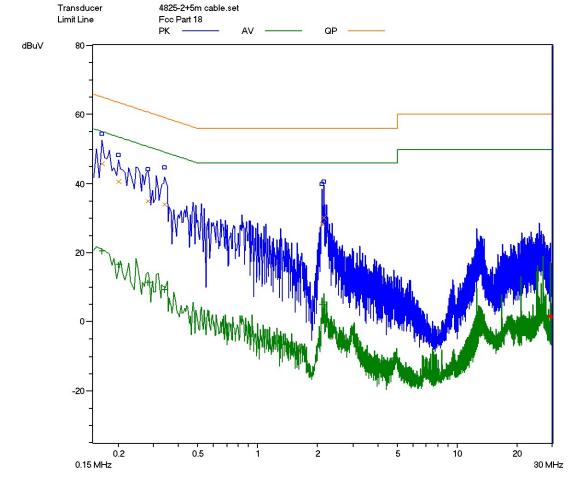


**Line L Conducted Emission Graph** 

CE-N.res 11/26/11 4:25:37 PM CE N

Title		CE N Microwave Oven		
Type				
EUT / Ser.No.		P79B20APII-D8		
Manufacturer		Galanz		
Condition		Full Power Of Microwave Mode		
Operator		Daomen		
Frequency Range(s	3)	Range 1		
Start Frequency		150 kHz		
Stop Frequency		30 MHz		
Step Frequency		5 kHz		
Attenuator		Auto		
Detector	(Pre)	AV CISPR		
IF Bandwidth (Pre)		9 kHz		
Measure Time (Pre)		10 ms		

Attenuator		Auto
Detector	(Pre)	AV CISPR
IF Bandwidth	(Pre)	9 kHz
Measure Time	(Pre)	10 ms
Detector	(Final)	QP
IF Bandwidth	(Final)	9 kHz
Measure Time	(Final)	1 s
Sub Ranges	(Final)	20



Line N Conducted Emission Graph

### **Test Data**

Line	Frequency	Corrected	Corrected	QP limit	AV limit
	(MHz)	Reading(QP)	Reading(AV)	dB uV	dB uV
L	0.1892	47.8	23.1	64.1	54.1
L	0.2808	36.2	9.4	60.8	50.8
L	1.9904	36.6	10.9	56.0	46.0
N	0.1596	52.1	27.2	65.5	55.5
N	0.1858	51.4	24.3	64.2	54.2
N	0.6212	33.6	7.9	56.0	46.0

# **Test Equipment List**

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
EMI Receiver	SCHAFFNER	SMR4503	44	2011-07-08	2012-07-08
LISN	ETS	4825/2	1161	2011-07-08	2012-07-08
Shielding Room	ETS	N/A	N/A	2011-05-18	2012-05-18

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



**Conducted Emission Test Set-up** 

# ATTACHMENT 6-RADIATED EMISSION TEST RESULTS

Client: Guangdong Co Ltd	Galanz Enterprises	Test Standard: FCC Part 18		
Model Numbers: P70B20(X)II-(Y)		Product: Microwave Oven		
Model Tested: P70B20APII-D8		<b>EUT Designation: Home or Office</b>		
Temperature: 25℃		Humidity: 50%RH		
ATM Pressure: 100.	.8kPa	Grounding: Through AC power cord		
Tested By: Daomen	Guan	Date of Test: November 28,2011		
Test Reference	ANSI C63.4: 2003, FC	C/OST MP-5:1986		
Test Procedure	FCC MP- 5 for radiate 1m*1.5m nonconductive ground. The table is plated An EMI receiver peak range (pre-scan) in an then performed and the in Quasi-peak detection detector mode above 10 The following data list levels, correction factors.	s the significant emission frequencies, measured tors (including cable and antenna correction cted readings against the limits. Explanation of the given as follows:  Generated the significant emission frequencies, measured tors (including cable and antenna correction cted readings against the limits. Explanation of the given as follows:		
Tested Range Test Voltage	30MHz to 24.5GHz 120VAC/60Hz			
Results	The EUT meets the requirements of test reference for Radiated emission on Horizontal polarization by 10.33dBuV/m of QP detector at 245.0120MHz			
Changes or Modifications	There were no modifications installed by Galanz test personnel.			
M. Uncertainty	±3.2dB			

**Test Data** 

30MHz-1GHz						
Frequency (MHz)	Antenna Polarization (V/H)	3 Meters Corrected QP reading (dBµV/m)	Delta QP (dB)	3 Meters Limits (dBµV/m)		
77.3560	V	30.90	38.13	69.03		
194.2580	V	37.20	31.83	69.03		
246.5240	V	36.70	32.33	69.03		
204.2100	Н	40.30	28.73	69.03		
245.0120	Н	58.70	10.33	69.03		
272.3560	Н	50.30	18.73	69.03		

Note: All readings are quasi-peak unless stated otherwise, using a bandwidth of  $120 \mathrm{kHz}$ .

1GHz-25GHz						
Frequency	Antenna	3 Meters	Delta AV	3 Meters		
(GHz)	Polarization	Corrected AV	(dB)	Limits		
	(V/H)	reading		(dBµV/m)		
		(dBµV/m)				
2.20336	V	37.22	31.81	69.03		
4.92628	V	50.07	18.96	69.03		
7.38340	V	53.98	15.05	69.03		
2.19524	Н	36.07	32.96	69.03		
4.92042	Н	49.60	19.43	69.03		
7.38976	Н	51.63	17.40	69.03		

**Comment: None** 

Note: All reading are average unless stated otherwise, using PK detector  $\,$ 

RBW=1MHz,VBW=10Hz

# **Test Equipment List**

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
Broadband Antenna	ETS	3142C	00042672	2011-09-26	2012-09-26
Horn Antenna	ETS	3115	6587	2011-08-02	2012-08-02
Band-pass Filter	Micro-Tronic	BRM50702	S/N-030	2011-11-09	2012-11-09
EMI Receiver	SCHAFFNER	SMR4503	44	2011-07-08	2012-07-08
Spectrum Analyzer	R&S	FSP30	100755	2011-11-09	2012-11-09
3m Anechoic chamber	ETS	N/A	N/A	2010-05-23	2012-05-23

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



Radiated Emission Test Setup (30-1000MHz)



Radiated Emission Test Setup (1-25GHz)

The End