FCC CFR47 PART 18 SUBPART C

ISM EQUIPMENT

TEST REPORT

FOR

MICROWAVE OVEN

Model: P90F23(X)-(Y) (Testing case: P90F23AP-X3)

Magnetron Model: Galanz, M24FB-610A

Brand Name: Galanz

Test Report No.: 11CA05201-02

FCC ID: UHW9023007

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

Prepared By: Bossco He		
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Test Report Released By	_05/13/2011	
Name	Date	

List Attached Files

Exhibit Type	File Description	File Name
	•	UHW9023007
Test report	Test report	-Test report .pdf
		UHW9023007
Operation Description	Operational Description	-Operational description .pdf
		UHW9023007
External Photos	External Photos	-External photos .pdf
		UHW9023007
Internal Photos	Internal Photos	-Internal photos .pdf
		UHW9023007
Block Diagram	Block Diagram	-Block diagram .pdf
		UHW9023007
Schematics Diagram	Schematics Diagram	-Schematics .pdf
		UHW9023007
ID Label/ Location	ID Label/ Location	-label & location .pdf
		UHW9023007
User Manual	User Manual	-User manual .pdf
		UHW9023007
Test setup Photos	Test setup Photos	-Test setup photos .pdf
		UHW9023007
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

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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 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 P90F23(X)-(Y)
Model Tested P90F23AP-X3

Brand Name Galanz

Date Tested May 10, 2011—May 11, 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 P90F23AP-X3 (Refer to the EUT in this report) is a Microwave Oven.

Specifications:

Power consumption	120Vac 60Hz, 1350W(Microwave)
Output	900W
Operation frequency	2450Hz
Magnetron brand	Galanz
Magnetron number	M24FB-610A
Outside dimensions(HxWxD)	$11.5/16 \times 19.5/16 \times 14$ in.
Cavity dimensions(HxWxD)	$73/4 \times 133/8 \times 135/16$ in.
Capacity	0.8cu.ft
Cooking uniformity	Turntable System
Net weight	Approx. 30.0lb.

Type of Deriver

P90F23(X)-(Y)model designations:

P: With Microwave functions only.

90: denote the output power is 900W

F23: denote different capacity in 23 liters.

Variable (X) may be L,P,SL,SP,AL,AP,ASL,ASP,EL,EP, ESL,ESP, ALH,APH "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, "H" means with the humidity sensor

Variable (Y) may compose by one to five 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 P90F23AP-X3 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

	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	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 and top view



Door open view



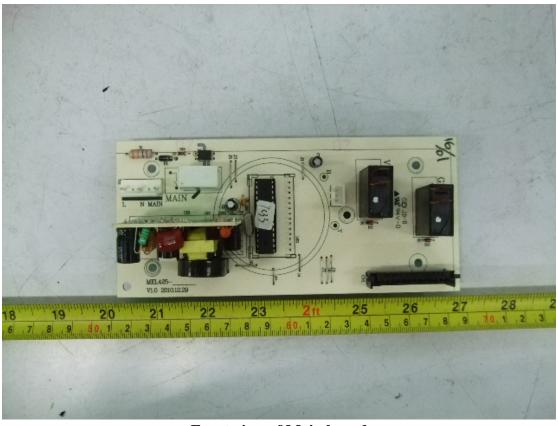
Rear View of EUT



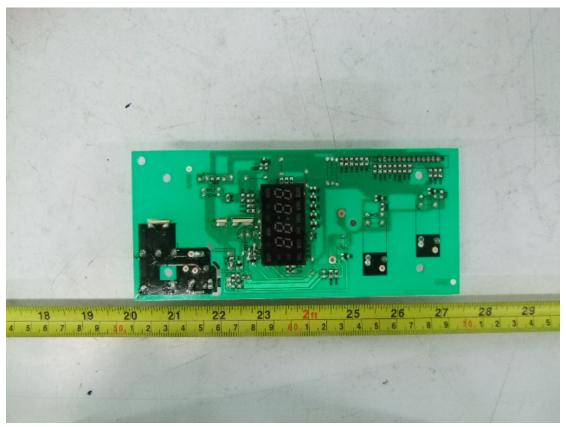
Uncovered View from right side



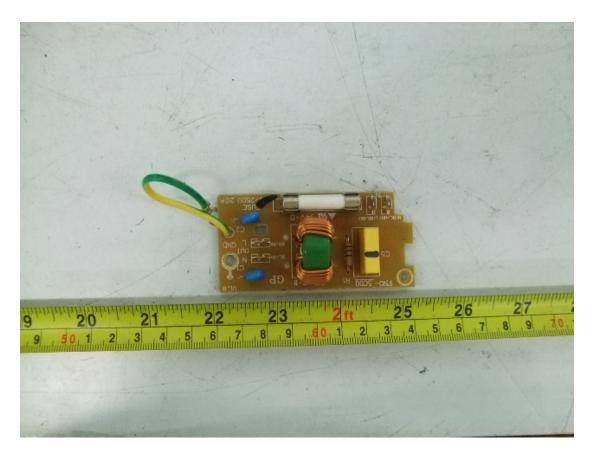
Uncovered View from top side



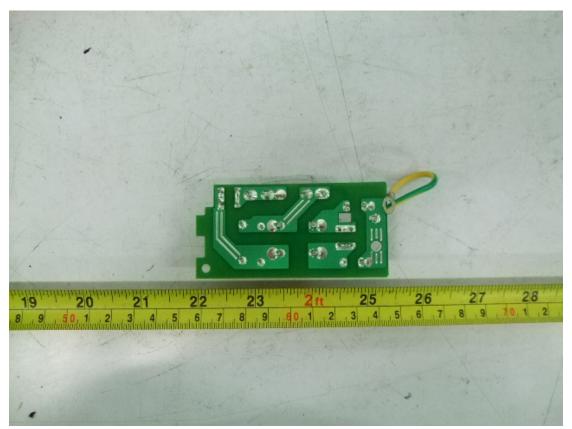
Front view of Main board



Back view of Main board



Front View of AC power filter board



Back of View AC power filter board

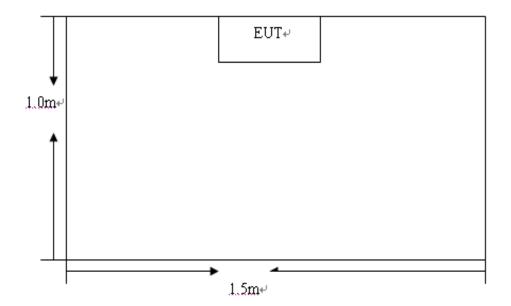


View of Magnetron

Test System Details

EUT					
Model Numbers	P90F23	(X)-(Y)			
Model tested	P90F23	AP-X3			
Description	Microw	ave Oven			
Manufacturer	Guangd	long Galanz F	Enterprises C	o., Ltd	
	Support Equipment				
	N/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	90F23(X)-(Y)	Product: Microwave Oven	
Model Tested: P90F	C23AP-X3	EUT Designation: Home or Office	
Temperature: 23℃		Humidity: 52%RH	
ATM Pressure: 101	kPa	Grounding: Through AC power cord	
Tested By: Bossco H	Ie	Date of Test: May 10,2011	
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		
Tested Range	N/A		
Test Voltage	120VAC/60Hz		
Results	There was no microwave leakage exceeding a power level of 0.02mW/cm^2 observed at any point 5cm or more from the external surface of the oven.		
	A maximum of 1.0 mW/cm ² is allowed in accordance with the applicable FCC standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.		
	The test results relate only to the equipment under test provided by client.		
Changes or Modifications	There were no modifications installed by Galanz test personnel		
M. Uncertainty	0.01 mW/cm ²		

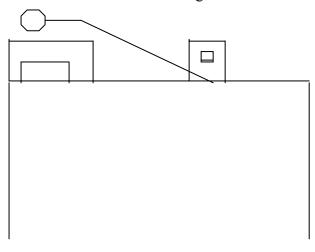
Test Equipment List

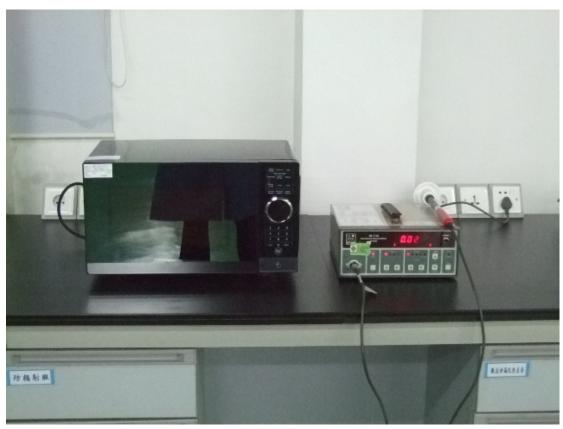
Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Equipment					
Field Monitor	ETS	AR FM5004	A0304252	2011-01-21	2013-01-20
Electric Field	ETS	AR FP6001	A0304302	2011-01-21	2013-01-20
probe					

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	90F23(X)-(Y)	Product: Microwave Oven	
Model Tested: P90F	723AP-X3	EUT Designation: Home or Office	
Temperature: 24℃		Humidity:52%RH	
ATM Pressure: 101	kPa	Grounding: Through AC power cord	
Tested By: Bossco I	Ie	Date of Test: May 10,2011	
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.		
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 Galanz test personnel		
M. Uncertainty	±5W		

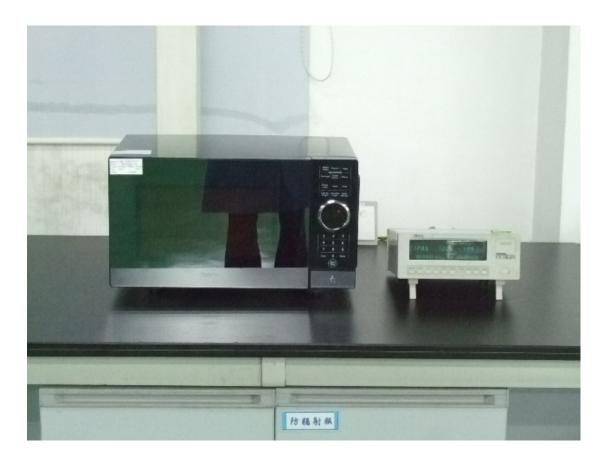
Test Data

Input Voltage	Input Current	Measured Input	Rated input
Vac/Hz	amps	power(watt)	power(watt)
120V/60Hz	111.53	1391	1350

Test Equipment List

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
Power frequency test system	Ainuo	AN8716PX	058704273	2010-07-06	2011-07-06

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: F	P90F23(X)-(Y)	Product: Microwave Oven	
Model Tested: P90	F23AP-X3	EUT Designation: Home or Office	
Temperature: 24°C		Humidity: 52%RH	
ATM Pressure: 10	1kPa	Grounding: Through AC power cord	
Tested By: Bossco	Не	Date of Test: May 10,2011	
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 R 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 RF Output Power (W) = 4.2 x 1000 x (Final Temp – Initial Temp) / 12		
Tested Range	N/A		
Test Voltage	120VAC/60Hz		
Results	RF output power =791W The test results relate only to the equipment under test provided by clien		
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	40.6	120	791

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 Co Ltd	Galanz Enterprises	Test Standard: FCC Part 18		
Model Numbers: P90F23(X)-(Y)		Product: Microwave Oven		
Model Tested: P901	F23AP-X3	EUT Designation: Home or Office		
Temperature: 25° ℃		Humidity: 53%RH		
ATM Pressure: 100	0.2kPa	Grounding: Through AC power cord		
Tested By: Bossco l	He	Date of Test: May 11,2011		
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 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 1000ml water load at room temperature at the beginning of the test. Then the operating frequency was monitored as the input voltage was			
Tested Range	2450±50MHz			
Test Voltage	120VAC/60Hz			
Results	frequency with time & l	nges for details of the variation in operating ine voltage measurement		
Changes or Modifications				
M. Uncertainty	Freq. ± 10kHz			

Test data

Variation in Operating Frequency with Time

Minimum Frequency(MHz)	Maximum Frequency(MHz)	
2406.4	2496.4	

Variation in Operating Frequency with Line Voltage

Minimum Frequency(MHz)	Maximum Frequency(MHz)				
2408.8	2496.4				
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	2010-11-09	2011-11-09
3m Anechoic chamber	ETS	N/A	N/A	2009-05-23	2011-05-23

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



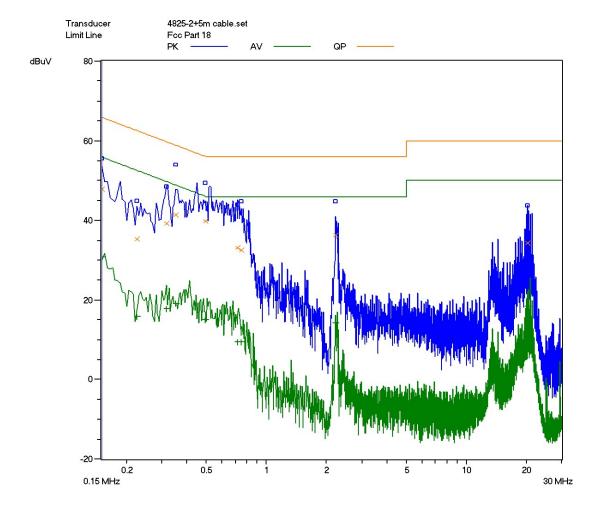
Operating Frequency Test Set-up

ATTACHMENT 5-CONDUCTED EMISSION TEST RESULTS

Client: Guangdong Galanz Enterprises Co Ltd Model Numbers: P90F23(X)-(Y)		Test Standard: FCC Part 18		
		Product: Microwave Oven		
Model Tested: P90F	F23AP-X3	EUT Designation: Home or Office		
Temperature: 25℃		Humidity: 52%RH		
ATM Pressure: 100	.9kPa	Grounding: Through AC power cord		
Tested By: Bossco I	Не	Date of Test: May 11, 2011		
Test Reference	ANSI C63.4: 2003 , FC	C/OST MP-5:1986		
Test Procedure	FCC MP-5 for conducte on each line and an EM measurement range, th	ecording to the guideline of ANSI C63.4:2003 & ed emission, The measurement was using a AMN MI receiver peak scan was made at the frequency e six highest significant peak were then marked, then quasi peaked and averaged. The frequency from 150kHz to 30MHz		
Tested Range	150kHz to 30MHz			
Test Voltage	120VAC/60Hz			
Results	The EUT meets the requirements of test reference for conducted Emission on line L by 12.4dBμV of Quasi-peak detector and by 22.4 dBμV of Average detector.			
Changes or Modifications	There were no modifications installed by Galanz test personnel.			
M. Uncertainty	±2.5dB			

CE-L	.res
CE	L

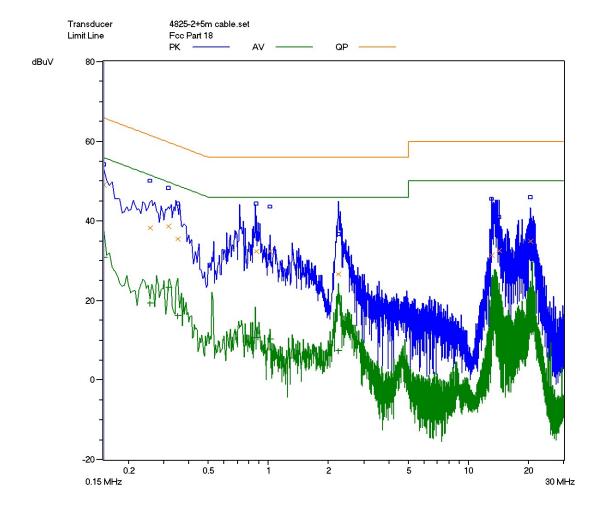
Title		CE L		
Туре		Microwave Oven		
EUT / Ser.No.		P90F23AP-X3		
Manufacturer		Galanz		
Condition		Full Power Of Microwave Mode		
Frequency Rang	e(s)	Range 1		
Start Frequency		150 kHz		
Stop Frequency		30 MHz		
Step Frequency		5 kHz		
Attenuator		Auto		
Detector	(Pre)	AV CISPR		
IF Bandwidth	(Pre)	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 5/11/11 3:06:57 PM CE N

Title		CE	N	
Туре		Micro	wave	Oven
EUT / Ser.No.		P90F	23AP-	× 3
Manufacturer		Galar	nz	
Condition		Full F	ower	Of Microwave Mode
Frequency Range	(s)			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 N Conducted Emission Graph

Test Data

Lina	Frequency	Corrected	Corrected	QP limit	AV limit
Line	(MHz)	Reading(QP)	Reading(AV)	dB uV	dB uV
L	0.1508	49.8	33.5	65.9	55.9
L	0.3508	42.9	20.2	58.9	48.9
L	0.4484	44.5	19.4	56.9	46.9
N	0.1516	48.4	29.1	65.8	55.8
N	0.8654	34.5	10.4	56.0	46.0
N	13.6688	35.9	15.8	60.0	50.0

Test Equipment List

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
EMI Receiver	SCHAFFNER	SMR4503	44	2010-07-08	2011-07-08
LISN	ETS	4825/2	1161	2010-07-08	2011-07-08
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	Galanz Enterprises	Test Standard: FCC Part 18		
Co Ltd				
Model Numbers: P90F23(X)-(Y)		Product: Microwave Oven		
Model Tested: P90F23AP-X3		EUT Designation: Home or Office		
Temperature: 25℃		Humidity: 52%RH		
ATM Pressure: 100.1kPa		Grounding: Through AC power cord		
Tested By: Bossco He		Date of Test: May 11,2011		
Test Reference	ANSI C63.4: 2003, FC	C/OST MP-5:1986		
Test Procedure	ANSI C63.4: 2003, FCC/OST MP-5:1986 The EUT was set up according to the guidelines of ANSI C63.4: 2003 & FCC MP- 5 for radiated emissions. Microwave oven was placed on a 1m*1.5m nonconductive table. The top of the table is 0.8 m above the ground. The table is placed on a flush mounted metal turntable. An EMI receiver peak scan was made at the frequency measurement range (pre- scan) in an Anechoic chamber. Signal discrimination was then performed and the significant peaks marked. All data was recorded in Quasi-peak detection mode from 30 MHz to 1GHz and average detector mode above 1GHz. 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 Results	120VAC/60Hz	uirements of test reference for Radiated emission		
Results	•			
	on Horizontal polarization by 11.03dBuV/m of average detector at 4.95284GHz			
Changes or Modifications		tions 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)		
103.2060	V	39.2	30.97	69.95		
125.0640	V	35.6	34.35	69.95		
236.0580	V	45.3	24.65	69.95		
154.690	Н	23.6	46.35	69.95		
176.9020	Н	35.8	34.15	69.95		
239.2840	Н	51.4	18.55	69.95		

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)		
		$(dB\mu V/m)$				
2.14418	V	34.34	35.65	69.95		
4.94686	V	57.07	12.88	69.95		
8.66092	V	56.34	13.65	69.95		
2.19474	Н	32.17	37.78	69.95		
4.95284	Н	58.92	11.03	69.95		
8.66494	Н	56.15	13.80	69.95		

Comment: None

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

RBW=1MHz,VBW=10Hz

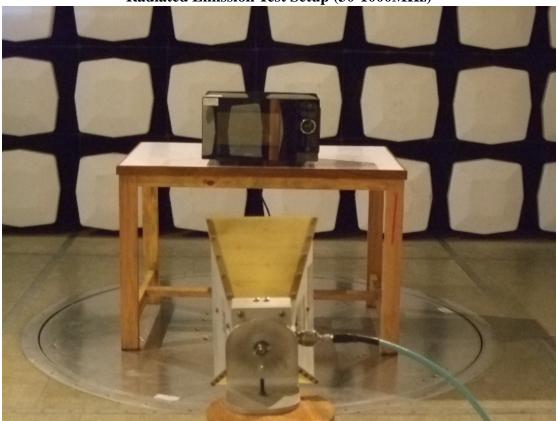
Test Equipment List

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
Broadband Antenna	ETS	3142C	00042672	2010-09-26	2012-09-26
Horn Antenna	ETS	3115	6587	2010-08-02	2012-08-02
Band-pass Filter	Micro-Tronic	BRM50702	S/N-030	2010-11-09	2011-11-09
EMI Receiver	SCHAFFNER	SMR4503	44	2010-07-08	2011-07-08
Spectrum Analyzer	R&S	FSP30	100755	2010-11-09	2011-11-09
3m Anechoic chamber	ETS	N/A	N/A	2009-05-23	2011-05-23

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