FCC CFR47 PART 18 SUBPART C

ISM EQUIPMENT

TEST REPORT

FOR

MICROWAVE OVEN

Model: D90D23(X)-(Y) (Testing case: D90D23ASL-B7)

Magnetron Model: Galanz, M24FB-610A

Brand Name: Galanz

Test Report No.: 10CA12032-03

FCC ID: UHW9023006

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

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Reviewed By: Yanhan Lu		
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Test Report Released By	_12/03/2010_	
Name	Date	

List Attached Files

Exhibit Type	File Description	File Name
	•	UHW9023006
Test report	Test report	-Test report .pdf
		UHW9023006
Operation Description	Operational Description	-Operational description .pdf
		UHW9023006
External Photos	External Photos	-External photos .pdf
		UHW9023006
Internal Photos	Internal Photos	-Internal photos .pdf
		UHW9023006
Block Diagram	Block Diagram	-Block diagram .pdf
		UHW9023006
Schematics Diagram	Schematics Diagram	-Schematics .pdf
		UHW9023006
ID Label/ Location	ID Label/ Location	-label & location .pdf
		UHW9023006
User Manual	User Manual	-User manual .pdf
		UHW9023006
Test setup Photos	Test setup Photos	-Test setup photos .pdf
		UHW9023006
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 D90D23(X)-(Y)
Model Tested D90D23ASL-B7

Brand Name Galanz

Date Tested Nov 25, 2010—Nov 30, 2010

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 D90D23ASL-B7 (Refer to the EUT in this report) is a Microwave Oven.

Specifications:

Power consumption	120V~60Hz, 1350W (Microwave)
	1050W (Grill)
Output	900W
Operation frequency	2450MHz
Magnetron brand	Galanz
Magnetron number	M24FB-610A
Outside dimensions(HxWxD)	$11^{1}/_{16} \times 19 \times 15^{11}/_{16}$ in.
Cavity dimensions(HxWxD)	$8^{11}/_{16} \times 13^{3}/_{8} \times 12^{5}/_{8}$ in.
Capacity	0.8cu.ft
Cooking uniformity	Turntable System
Net weight	Approx. 31lb.

Type of Deriver

D90D23(X)-(Y)model designations:

D: With Microwave and Grills functions.

90: denote the output power is 900W

D23: denote different capacity in 23 liters.

Variable (X) may be

L,P,J,SL,SP,SJ,TL,TJ,AL,AP,AJ,ASL,ASP,ATL,ATP,EL,EP,EJ,ESL,ESP,ESJ,ET L,ETP,ETJ,ML,MP,MJ,MSL,MSP,MSJ,MTL,MTP,MTJ,ALH,APH

"L" and "J" is pull-out type door, P is push-button type door. When there is no letter before "L","P" and "J", denotes mechanical control model; When there is "A", "E" or "M" denote the electrical control model. "S" denotes stainless steel cavity; "T" denotes the gray cavity; When there is neither "S" nor "T" before "L", "P" or "J", 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 D90D23ASL-B7 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



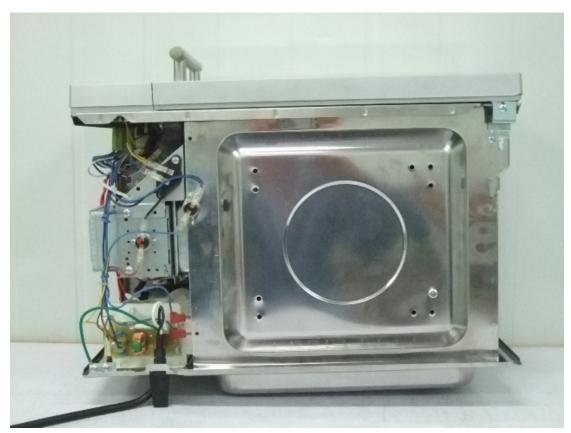
Door open view



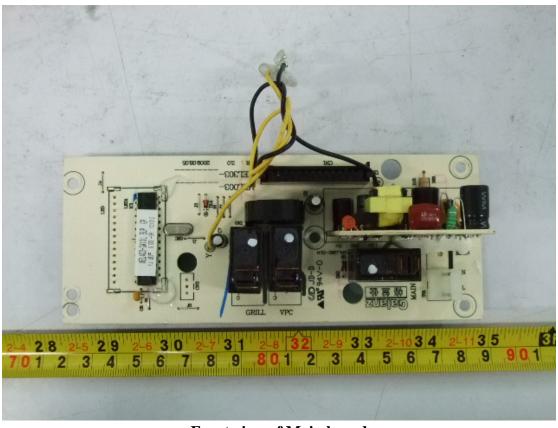
Rear View of EUT



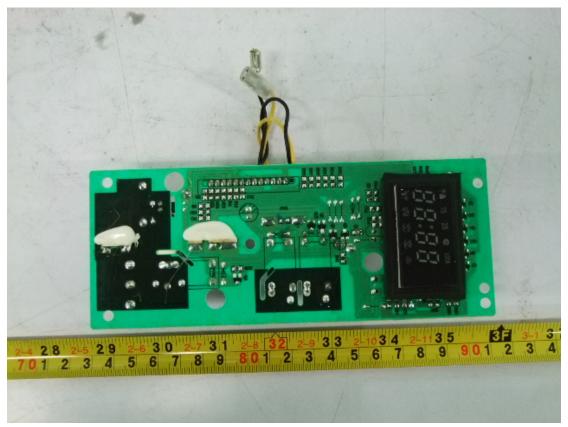
Uncovered View from right side



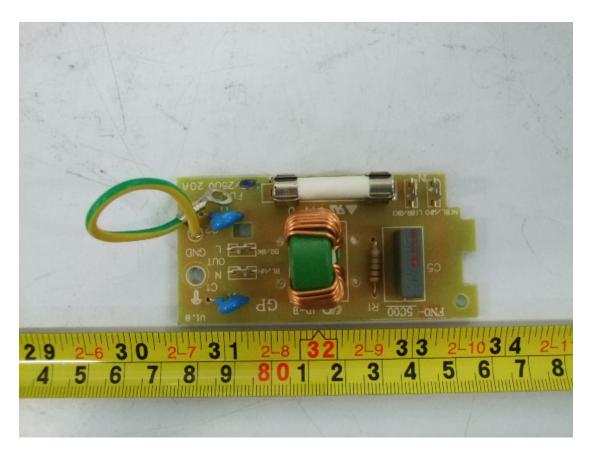
Uncovered View from top side



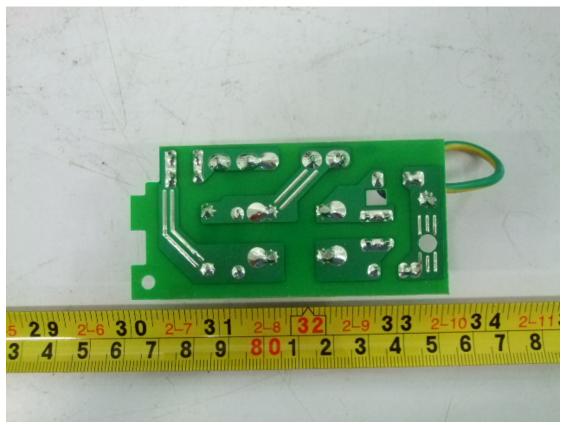
Front view of Main board



Back view of Main board



Front View of AC power filter board



Back of View AC power filter board

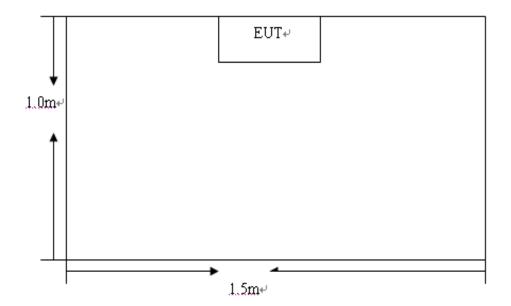


View of Magnetron

Test System Details

EUT					
Model Numbers	D90D23	D90D23(X)-(Y)			
Model tested	D90D23	BASL-B7			
Description	Microw	ave Oven			
Manufacturer	Guangd	long Galanz I	Enterprises C	o., Ltd	
Support Equipment					
	N/A				
		Cable D	escription		
Description	From	То	Length	Shielded	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: D	90D23(X)-(Y)	Product: Microwave Oven	
Model Tested: D90I	D23ASL-B7	EUT Designation: Home or Office	
Temperature: 23℃		Humidity: 39%RH	
ATM Pressure: 101	kPa	Grounding: Through AC power cord	
Tested By: Bossco H	Ie	Date of Test: Nov 25,2010	
Test Reference	ANSI C63.4: 2003, F	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 0.04mW/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		

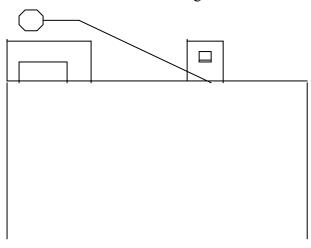
Test Equipment List

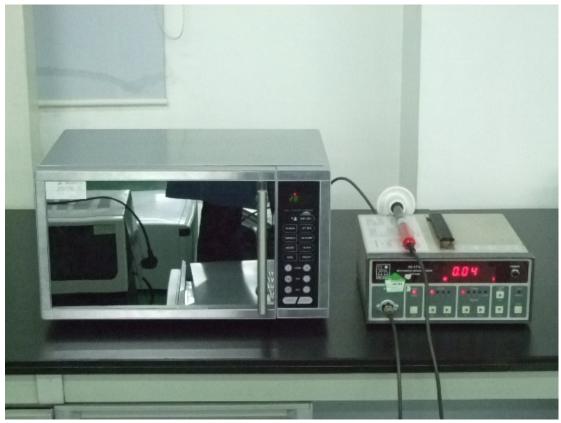
Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Equipment					
Field Monitor	ETS	AR FM5004	A0304252	2009-01-21	2011-01-20
Electric Field	ETS	AR FP6001	A0304302	2009-01-21	2011-01-20
probe					

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: D	90D23(X)-(Y)	Product: Microwave Oven	
Model Tested: D901	D23ASL-B7	EUT Designation: Home or Office	
Temperature: 22℃		Humidity: 38%RH	
ATM Pressure: 101	kPa	Grounding: Through AC power cord	
Tested By: Bossco I	I e	Date of Test: Nov 25,2010	
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 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		

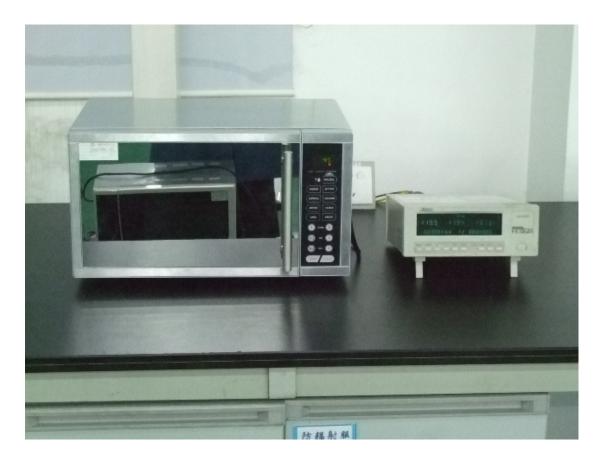
Test Data

Input Voltage	Input Current	Measured Input	Rated input
Vac/Hz	amps	power(watt)	power(watt)
120V/60Hz	11.41	1369	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: D90D23(X)-(Y)		Product: Microwave Oven	
Model Tested: D901	D23ASL-B7	EUT Designation: Home or Office	
Temperature: 23℃		Humidity: 38%RH	
ATM Pressure: 101	kPa	Grounding: Through AC power cord	
Tested By: Bossco I	Ie	Date of Test: Nov 25,2010	
Test Reference	ANSI C63.4: 2003 , FC	C/OST MP-5:1986	
Tested Range	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 RF Output Power (W) = 4.2 x 1000 x (Final Temp – Initial Temp) / 120 N/A		
Test Voltage			
Test voltage	120VAC/60Hz		
Results Changes or Modifications	RF output power =819W The test results relate only to the equipment under test provided by client 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	41.4	120	819

Test Equipment List

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
Data Acquisition	TES	TES-1310	021108782	2010-04-04	2011-04-04

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: D90D23(X)-(Y)		Product: Microwave Oven	
Model Tested: D90	D23ASL-B7	EUT Designation: Home or Office	
Temperature: 23℃		Humidity: 41%RH	
ATM Pressure: 100	.9kPa	Grounding: Through AC power cord	
Tested By: Bossco l	He	Date of Test: Nov 29,2010	
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	There were no modifica	tions installed by Galanz test personnel.	
M. Uncertainty	Freq. ± 10kHz		

Test data

Variation in Operating Frequency with Time

Minimum Frequency(MHz)	Maximum Frequency(MHz)	
2404.8	2481.4	

Variation in Operating Frequency with Line Voltage

Minimum Frequency(MHz)	Maximum Frequency(MHz)					
2415.6	2484.8					
Note: Line voltage varied from 96Vac to	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.



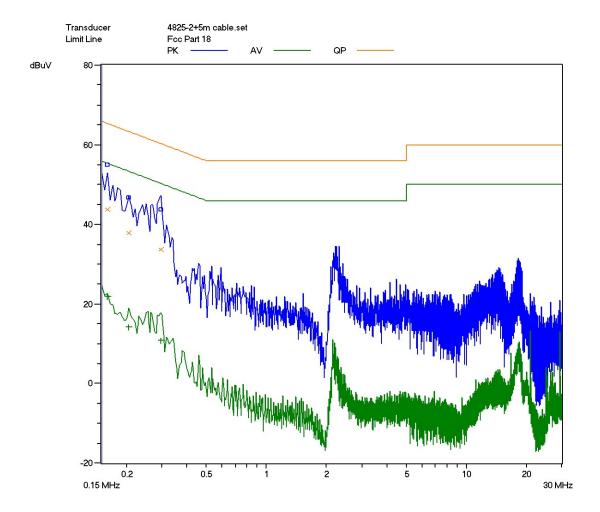
Operating Frequency Test Set-up

ATTACHMENT 5-CONDUCTED EMISSION TEST RESULTS

Client: Guangdong Galanz Enterprises Co Ltd		Test Standard: FCC Part 18		
Model Numbers: D	90D23(X)-(Y)	Product: Microwave Oven		
Model Tested: D901	D23ASL-B7	EUT Designation: Home or Office		
Temperature: 23℃		Humidity: 41%RH		
ATM Pressure: 100	.9kPa	Grounding: Through AC power cord		
Tested By: Bossco I	Ie	Date of Test: Nov 30,2010		
Test Reference	ANSI C63.4: 2003 , FCC/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 N by $11.3 dB\mu V$ of Quasi-peak detector and by 28.1 dB μV of Average detector.			
Changes or Modifications	There were no modifications installed by Galanz test personnel.			
M. Uncertainty	±2.5dB			

\sim		
	4.57	

Type EUT / Ser.No. Manufacturer Condition Operator			Microwave Oven D90D23ASL-B7 Galanz Full Power Of Microwave Mode Bossco
	Frequency Range	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

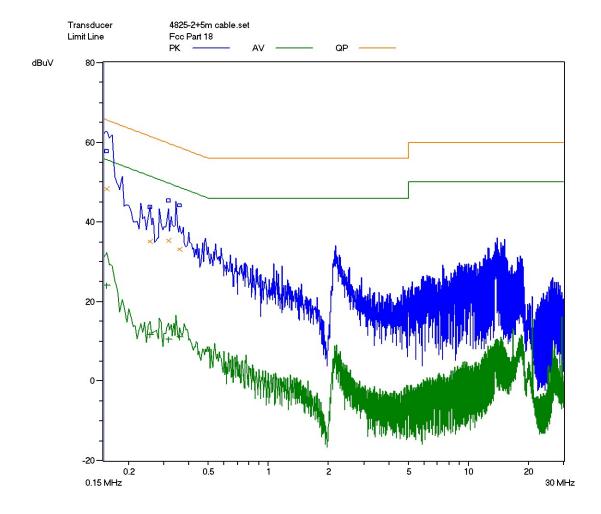


Line L Conducted Emission Graph

	Type		Microwave Oven		
EUT / Ser.No.			D90D23ASL-B7		
	Manufacturer		Galanz		
	Condition		Full Power Of Microwave Mode		
	Operator		Bossco		
	Frequency Range	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		

CE

N



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	0.1592	45.7	23.4	65.5	55.5
L	0.2962	36.4	12.0	60.3	50.3
L	2.1752	26.8	5.1	56.0	46.0
N	0.1550	54.4	27.6	65.7	55.7
N	0.3458	35.1	11.4	59.1	49.1
N	2.1578	25.7	3.1	56.0	46.0

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	2010-05-18	2011-05-18

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: D90D23(X)-(Y)		Product: Microwave Oven		
Model Tested: D90D23ASL-B7		EUT Designation: Home or Office		
Temperature: 22℃		Humidity: 40%RH		
ATM Pressure: 100.8kPa		Grounding: Through AC power cord		
Tested By: Bossco He		Date of Test: Nov 30,2010		
Test Reference	ANSI C63.4: 2003 , FCC/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	-	tion by 14.3dBuV/m of quasi-peak detector at		
Changes or Modifications	There were no modifica	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)		
242.9100	V	53.5	16.6	70.1		
261.8700	V	47.0	23.1	70.1		
494.0880	V	43.4	26.7	70.1		
242.2000	Н	55.8	14.3	70.1		
256.6000	Н	53.4	16.7	70.1		
485.8000	Н	37.2	32.9	70.1		

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		$(dB\mu V/m)$		
		(dBµV/m)				
2.21482	V	32.90	37.20	70.1		
4.94478	V	36.03	34.07	70.1		
7.14762	V	38.01	32.09	70.1		
2.21764	Н	30.55	39.55	70.1		
4.93282	Н	36.61	33.49	70.1		
7.89410	Н	40.00	30.10	70.1		

Comment: None

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

RBW=1MHz,VBW=10Hz

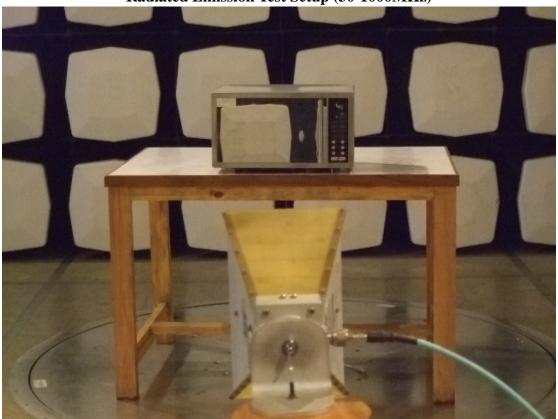
Test Equipment List

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	2011-11-30
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