

# FCC PART 18 TEST REPORT

For

# Zhongshan Donlim Weili Electrical Appliances Co., Ltd.

Fusha Industrial Park, Fusha Town, Zhongshan, China

FCC ID: YI4DW30PX89

Report Type: **Product Type:** Microwave Oven Original Report **Report Number:** RSZ170615550-00 **Report Date:** 2017-07-21 Hill He HM HR **Reviewed By:** EMC Engineer Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F., West Wing, Third Phase of Wanli Industrial Building, Prepared By: Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

**Note**: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

Report No.: RSZ170615550-00

# **TABLE OF CONTENTS**

GENERAL INFORMATION	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
Objective	
RELATED SUBMITTAL(S)/GRANT(S)	3
TEST METHODOLOGY	3
Measurement Uncertainty:	3
TEST FACILITY	4
OPERATING CONDITION/TEST CONFIGURATION	5
JUSTIFICATION	5
EUT Exercise Software	
SPECIAL ACCESSORIES.	
EQUIPMENT MODIFICATIONS	5
SUPPORT EQUIPMENT LIST AND DETAILS	
External Cable List and Details	
CONFIGURATION OF TEST SETUP	
BLOCK DIAGRAM OF TEST SETUP	
TEST EQUIPMENT LIST	7
CONDUCTED EMISSIONS	8
APPLICABLE STANDARD	8
EUT SETUP	
EMI TEST RECEIVER SETUP	8
TEST PROCEDURE	
TEST RESULTS SUMMARY	
TEST DATA	9
RADIATION HAZARD MEASUREMENT	12
APPLICABLE STANDARD	
Test Data	
RADIATION HAZARD MEASUREMENT	
Input Power	
LOAD FOR MICROWAVE OVENS	
RF OUTPUT POWER MEASUREMENT	
OPERATING FREQUENCY MEASUREMENT	15
RADIATED EMISSIONS	
APPLICABLE STANDARD	
EUT SETUP	19
EMI TEST RECEIVER SETUP AND SPECTRUM ANALYZER SETUP	
Test Procedure	
CORRECTED AMPLITUDE & MARGIN CALCULATION	
TEST RESULTS SUMMARY	
TECT LIATA AND ULOTO	

## **GENERAL INFORMATION**

## **Product Description for Equipment under Test (EUT)**

The Zhongshan Donlim Weili Electrical Appliances Co., Ltd. 's product, model number: 30PX99 (FCC ID: Y14DW30PX89) or the "EUT" in this report is a Microwave Oven, which was measured approximately: 52.0 cm (L) \* 37.5 cm (W) \* 32.0 cm (H), the rated with input voltage: AC 120V/60Hz. The operating frequency is 2450MHz.

Report No.: RSZ170615550-00

Notes: This series products model: 30PX99 and 30PX98 are identical. The difference between these models is the product model name, the color of door frame and control box. Model 30PX99 was selected for fully testing, the detailed information can be referred to the declaration which was stated and guaranteed by the applicant.

\*All measurement and test data in this report was gathered from production sample serial number: 1706029 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2017-06-15.

## **Objective**

This report is prepared on behalf of *Zhongshan Donlim Weili Electrical Appliances Co., Ltd.* in accordance with Part 2-Subpart J, and Part 18-Subparts A, B and C of the Federal Communication Commissions rules and regulations.

The objective of the manufacturer is to determine compliance with FCC Part 18 limits.

## Related Submittal(s)/Grant(s)

No related submittal(s).

## **Test Methodology**

All measurements contained in this report were conducted with MP-5, FCC Methods of Measurements of Radio Noise Emissions from ISM Equipment, February 1986. All measurements were performed at Bay Area Compliance Laboratory Corporation. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

## **Measurement Uncertainty:**

Item			<b>Expanded Measurement uncertainty</b>
AC Powe	r Line Conducted Emi	ssions	2.20 dB (k=2, 95% level of confidence)
	30MHz~200MHz	Horizontal	4.58 dB (k=2, 95% level of confidence)
	30MHZ~200MHZ	Vertical	4.59 dB (k=2, 95% level of confidence)
Radiated emission		Horizontal	4.83 dB (k=2, 95% level of confidence)
		Vertical	5.85 dB (k=2, 95% level of confidence)
		Horizontal/Vertical	4.08 dB (k=2, 95% level of confidence)
	Above 6 GHz	Horizontal/Vertical	4.59 dB (k=2, 95% level of confidence)

FCC Part 18 Page 3 of 22

## **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

Report No.: RSZ170615550-00

Bay Area Compliance Laboratories Corp. (Shenzhen) has been accredited to ISO/IEC 17025 by CNAS(Lab code: L2408). And accredited to ISO/IEC 17025 by NVLAP(Lab code: 200707-0), the FCC Designation No. CN5001 under the KDB 974614 D01.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Bay Area Compliance Laboratories Corp. (Shenzhen) was registered with ISED Canada under ISED Canada Registration Number 3062B.

FCC Part 18 Page 4 of 22

# OPERATING CONDITION/TEST CONFIGURATION

## **Justification**

The EUT was operated at maximum (continuous) RF output power. The loads consisted of water in a glass beaker in the amounts specified in the test procedure.

Report No.: RSZ170615550-00

## **EUT Exercise Software**

No exercise software was used.

# **Special Accessories**

No special accessory was used.

# **Equipment Modifications**

No modifications were made to the EUT tested.

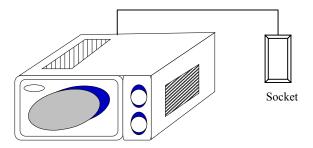
# **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
N/A	Socket	N/A	140217

# **External Cable List and Details**

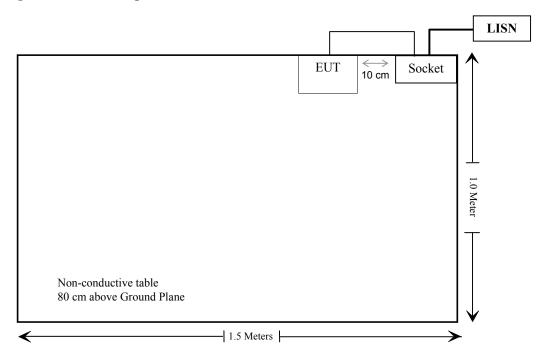
Cable Description	Length (m)	From/Port	To
Un-shielding Un-detachable AC Cable	1.5	LISN	Socket
Un-shielding Un-detachable AC Cable	0.8	EUT	Socket

## **Configuration of Test Setup**



FCC Part 18 Page 5 of 22

# **Block Diagram of Test Setup**



FCC Part 18 Page 6 of 22

# **TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial	Calibration	Calibration
	•		Number	Date	<b>Due Date</b>
		DUCTED EMISSI		T	
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2016-10-19	2017-10-19
Rohde & Schwarz	LISN	ENV216	3560.6650.12- 101613-Yb	2016-12-07	2017-12-07
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2017-02-14	2017-08-15
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
	RADIATIO	N HAZARD MEAS	SUREMENT		
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2017-04-24	2018-04-24
GW Instek	Power Meter	GPM 8212	CL110034	2017-04-09	2018-04-09
GW Instek	AC Power Meter	GPM-8212	CH150074	2017-04-09	2018-04-09
MC	MC Thermometer		N/A	2016-11-01	2017-11-01
A.H.System	Horn Antenna	3115	9903-5766	NCR	NCR
ETS	Microwave Survery Meter	1501	N/A	NCR	NCR
CAMRY	Electronic Weigher	EK3820	N/A	2016-11-03	2017-11-02
	RA	DIATED EMISSIC	ONS		
HP	Amplifier	HP8447E	1937A01046	2017-05-12	2017-11-13
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2016-12-07	2017-12-07
Sunol Sciences	Bi-log Antenna	JB1	A040904-2	2014-12-17	2017-12-17
A.H. System	Horn Antenna	SAS-200/571	135	2015-08-18	2018-08-17
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2017-04-24	2018-04-24
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2017-02-14	2018-02-14
TDK	Chamber	Chamber A	2#	2016-12-05	2019-12-05
TDK	Chamber	Chamber B	1#	2016-12-06	2019-12-06
R&S	Auto test Software	EMC32	V9.10	NCR	NCR

Report No.: RSZ170615550-00

FCC Part 18 Page 7 of 22

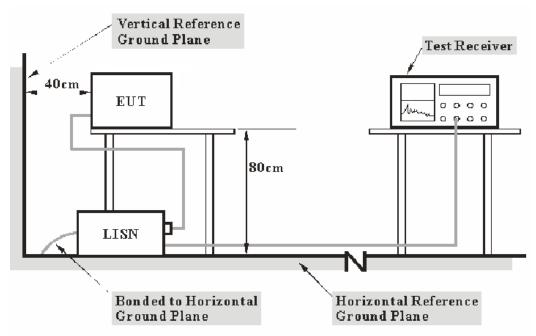
<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

# **CONDUCTED EMISSIONS**

# **Applicable Standard**

FCC §18.307

## **EUT Setup**



Report No.: RSZ170615550-00

Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with MP-5: 1986 measurement procedure. Specification used was with the FCC Part 18.

The socket was connected to a 120 VAC/ 60Hz power source.

# **EMI Test Receiver Setup**

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

FCC Part 18 Page 8 of 22

## **Test Procedure**

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

# **Test Results Summary**

According to the recorded data in following table, the EUT complied with the FCC PART 18,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

Report No.: RSZ170615550-00

In BACL.,  $U_{(Lm)}$  is less than  $U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

#### **Test Data**

## **Environmental Conditions**

Temperature:	23.4 ℃
Relative Humidity:	46 %
ATM Pressure:	101.0 kPa

The testing was performed by Hardy Wang on 2017-07-20.

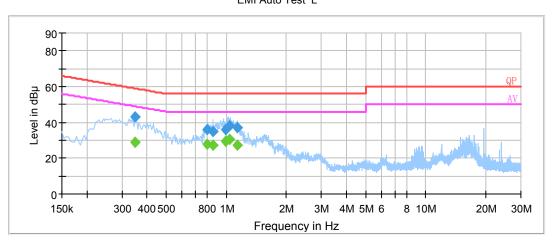
FCC Part 18 Page 9 of 22

EUT operation mode: Boiling Water with MAX Power

# **AC 120V/60Hz, Line**

EMI Auto Test L

Report No.: RSZ170615550-00



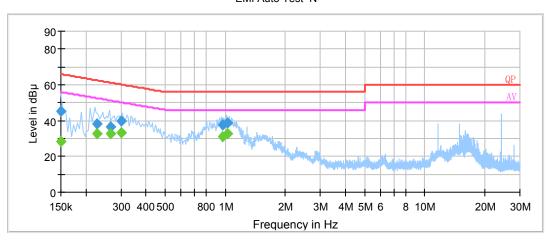
Frequency (MHz)	Corrected Amplitude (dBµV)	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/QP/Ave.)
0.348690	42.8	20.2	59.0	16.2	QP
0.805790	35.9	20.0	56.0	20.1	QP
0.857130	35.1	20.1	56.0	20.9	QP
0.994850	36.2	20.1	56.0	19.8	QP
1.034610	38.2	20.1	56.0	17.8	QP
1.133050	37.2	20.1	56.0	18.8	QP
0.348690	29.2	20.2	49.0	19.8	Ave.
0.805790	28.1	20.0	46.0	17.9	Ave.
0.857130	27.5	20.1	46.0	18.5	Ave.
0.994850	29.5	20.1	46.0	16.5	Ave.
1.034610	30.8	20.1	46.0	15.2	Ave.
1.133050	27.4	20.1	46.0	18.6	Ave.

FCC Part 18 Page 10 of 22

# AC 120V/60Hz, Neutral

#### EMI Auto Test N

Report No.: RSZ170615550-00



Frequency (MHz)	Corrected Amplitude (dBµV)	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/QP/Ave.)
0.150000	45.0	20.2	66.0	21.0	QP
0.226500	38.3	20.2	62.6	24.3	QP
0.265500	36.7	20.2	61.3	24.5	QP
0.301410	39.8	20.2	60.2	20.4	QP
0.971570	37.7	20.1	56.0	18.3	QP
1.022730	38.7	20.1	56.0	17.3	QP
0.150000	28.3	20.2	56.0	27.7	Ave.
0.226500	32.5	20.2	52.6	20.0	Ave.
0.265500	32.7	20.2	51.3	18.6	Ave.
0.301410	33.0	20.2	50.2	17.2	Ave.
0.971570	31.0	20.1	46.0	15.0	Ave.
1.022730	32.7	20.1	46.0	13.3	Ave.

## **Note:**

- Corrected Amplitude = Reading + Correction Factor
  Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation
- 3) Margin = Limit Corrected Amplitude

FCC Part 18 Page 11 of 22

# RADIATION HAZARD MEASUREMENT

### **Applicable Standard**

FCC §18.301

#### **Test Data**

#### **Environmental Conditions**

Temperature:	24.8 ℃
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

The testing was performed by Hardy Wang on 2017-07-20.

### **Radiation Hazard Measurement**

Radiation leakage was measured in the as-received condition with the oven door closed using a microwave leakage meter.

Report No.: RSZ170615550-00

A 275 mL water load was placed in the center of the oven and the oven was operated at maximum output power.

There was no microwave leakage exceeding a power level of  $0.1 \text{mW/cm}^2$  observed at any point 5 cm 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 Federal Standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.

# **Input Power**

Input power and current was measured using a power analyzer. A 1000 mL water load was placed in the center of the oven and the oven was operated at maximum output power. A 1000mL water load was chosen for its compatibility with the procedure commonly used by manufacturers to determine their input ratings.

Input Voltage (V <sub>AC</sub> /Hz)	Input Current (Amps)	Measured Input Power (Watts)	Rated Input Power (Watts)
120	11.08	1330	1500

Based on the measured input power, the EUT was found to be operating within the intended specifications.

FCC Part 18 Page 12 of 22

#### 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 500watts or fraction thereof in excess of 1000 watts. Additional beakers were used if necessary.

Report No.: RSZ170615550-00

- 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.

#### The RF output power is rated at 1000 watts

Load used for power output measurement = 1000 milliliters of water Load used for frequency measurement = 1000 milliliters of water Load used for harmonic measurement = 700 & 300 milliliters of water Load used for other measurement = 700 milliliters of water

## **RF Output Power Measurement**

A cylindrical container of borosilicate glass is used for the test. It has a maximum thickness of 3 mm, an external diameter of approximately 190 mm and a height of approximately 90 mm. The mass of the container is determined.

At the start of the test, the oven and the empty container are at ambient temperature. Water having an initial temperature of 25 °C  $\pm$  1 °C is used for the test. The water temperature is measured immediately before it is poured into the container.

A quantity of 1 000 g  $\pm$  5 g of water is added to the container and its actual mass obtained. The container is then immediately placed in the centre of the oven shelf, which is in its lowest normal position. The oven is operated and the time for the water temperature to attain 25 °C  $\pm$  2 °C is measured. The oven is then switched off and the final water temperature is measured within 60 s.

FCC Part 18 Page 13 of 22

m <sub>w</sub> (g)	m <sub>c</sub> (g)	T <sub>0</sub> (°C)	T₁ (°C)	T <sub>2</sub> (°C)	t (s)
1000	377.0	27	10	20.5	45

Report No.: RSZ170615550-00

RF Output Power =  $(4.187 \times 1000 \times (20.5 - 10) + 0.55 \times 377 \times (20.5 - 27)) / 45 = 947.02$  Watts

is the microwave power output, in watts;

is the mass of the water, in grams;  $m_{\rm w}$ 

is the mass of the container, in grams;  $m_c$ 

To

is the ambient temperature, in degrees Celsius; is the initial temperature of the water, in degrees Celsius;  $T_1$ 

is the final temperature of the water, in degrees Celsius;  $T_2$ 

is the heating time, in seconds, excluding the magnetron filament heating-up time.

The measurement output power was found to be less than 500 watts. Therefore, in accordance with Section 18.305 of Subpart-C, the measured out-of-band emissions were compared to the limit of 25µV/meter at a 300-meter measurement distance.

The measured output power was found to exceed 500 watts. Therefore, in accordance with Section 18.305 of Subpart-C, the measured out-of-band emissions were compared with the limit calculated as following:

LFS = 25\*SQRT (Power Output/500)

LFS = 25\* SQRT (947.02/500)

LFS = 34.41

Where: LFS is the maximum allowable field strength for out-of-band emissions in μV/meter at a 300meter measurement distance. Power Output is the measured output power in watts.

LFS μV/m@300m	dBμV/m@300m	dBμV/m@3m		
34.41	30.73	70.73		

Note: Limit  $(dB\mu V/m@3m) = Limit (dB\mu V/m@300m) + 40(dB)$ 

FCC Part 18 Page 14 of 22

# **Operating Frequency Measurement**

## Variation in Operating Frequency with Time

The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000mL water load was placed in the center of the oven and the 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.

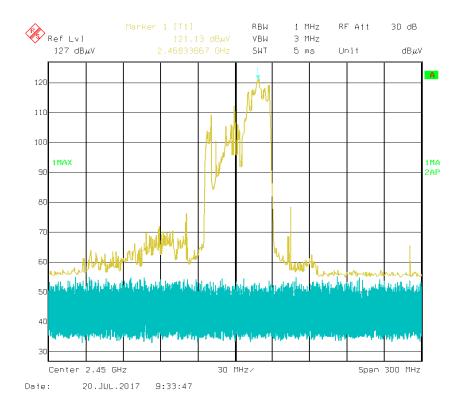
Report No.: RSZ170615550-00

The results of this test are as follows:

Frequency at Start time	Frequency at End time			
(MHz)	(MHz)			
2468.34	2468.34			

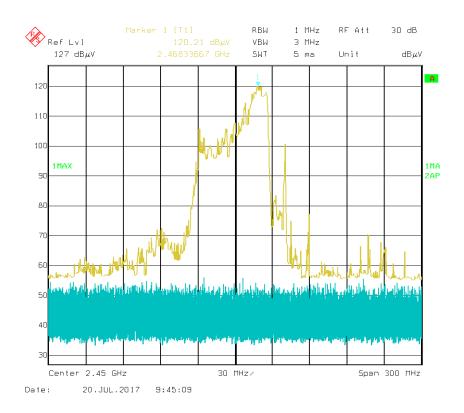
Refer to data pages for details of the variation in operating frequency with time measurement.

### **Start time:**



FCC Part 18 Page 15 of 22

# **End time:**



Report No.: RSZ170615550-00

FCC Part 18 Page 16 of 22

## Variation in Operating Frequency with Line Voltage

The EUT was operated / warmed by at least 10 minutes of use with a 1000 mL water load at room temperature at the beginning of the test. Then the operating frequency was monitored as the input voltage was varied between 80 and 125 percent of the nominal rating.

Report No.: RSZ170615550-00

The results of this test are as follows:

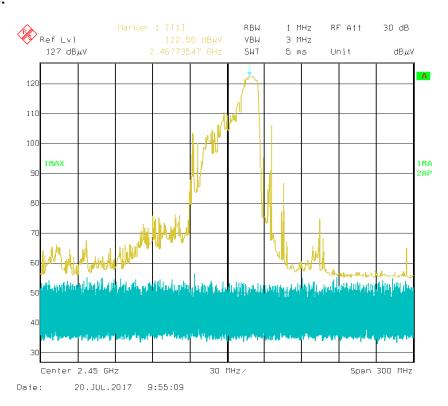
Line voltage varied from 96  $V_{AC}$  to 150  $V_{AC}$ .

(Low voltage) Frequency	(High voltage) Frequency			
(MHz)	(MHz)			
2470.14	2467.74			

Please refer to following pages for details of the variation in operating frequency with line voltage measurement.

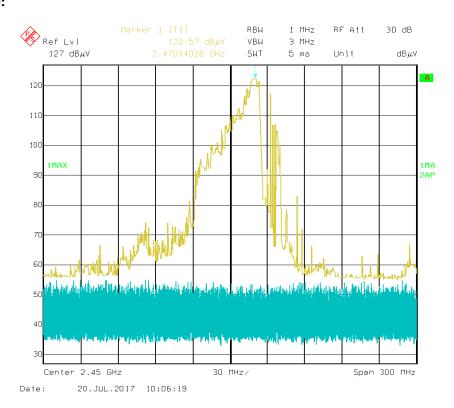
FCC Part 18 Page 17 of 22

# **High Voltage:**



Report No.: RSZ170615550-00

# Low Voltage:



FCC Part 18 Page 18 of 22

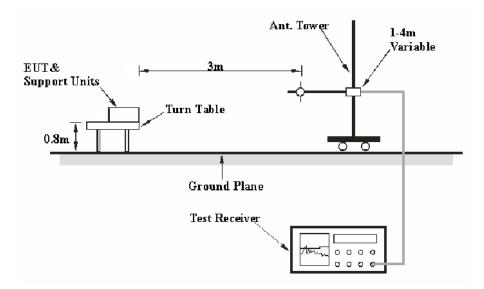
# **RADIATED EMISSIONS**

# **Applicable Standard**

FCC §18.305 and FCC §18.309

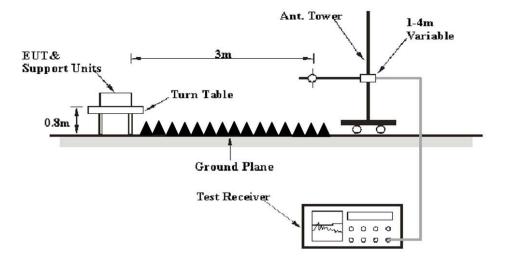
# **EUT Setup**

#### **Below 1GHz:**



Report No.: RSZ170615550-00

## Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the FCC MP - 5. The specification used was the FCC part 18 limits.

The socket was connected to 120 VAC/60 Hz power source.

FCC Part 18 Page 19 of 22

# **EMI Test Receiver Setup and Spectrum Analyzer Setup**

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver and Spectrum Analyzer were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector	
30MHz – 1000 MHz	100 kHz	300 kHz	120kHz	QP	
Above 1 CHz	1MHz	3 MHz	/	PK	
Above 1 GHz	1MHz	10 Hz	/	Ave.	

Report No.: RSZ170615550-00

#### **Test Procedure**

Maximizing procedure was performed on the six (6) highest emissions to ensure that the EUT complied with all installation combinations.

The EUT was in the normal (naïve) operating mode during the final qualification test to represent the worst results.

The data was recorded in the Quasi-peak detection mode from 30 MHz to 1 GHz, the average detection mode for above 1 GHz.

# **Corrected Amplitude & Margin Calculation**

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit - Corrected Amplitude

FCC Part 18 Page 20 of 22

# **Test Results Summary**

According to the data in the following table, the EUT complied with the FCC Part 18,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

Report No.: RSZ170615550-00

In BACL.,  $U_{(Lm)}$  is less than  $U_{\text{cispr}}$ , if  $L_{\text{m}}$  is less than  $L_{\text{lim}}$ , it implies that the EUT complies with the limit.

# **Test Data and Plots**

## **Environmental Conditions**

Temperature:	23.4 ℃		
Relative Humidity:	46 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Hardy Wang on 2017-07-20.

FCC Part 18 Page 21 of 22

Test Mode: Boiling Water with MAX Power

#### **30 MHz – 1 GHz:**

Frequency (MHz)	Corrected Amplitude (dBµV/m)	Detector (PK/QP)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
96.754950	23.80	120.000	344.0	V	112.0	-9.7	70.73	46.93
300.945875	37.40	120.000	345.0	Н	129.0	-2.9	70.73	33.33
821.066450	31.20	120.000	167.0	Н	240.0	9.0	70.73	39.53
261.533397	26.50	120.000	149.0	Н	112.0	-4.4	70.73	44.23
319.876325	33.60	120.000	138.0	Н	312.0	-2.8	70.73	37.13
869.506825	35.40	120.000	157.0	Н	149.0	9.3	70.73	35.33

Report No.: RSZ170615550-00

## Above 1 GHz:

T.	Receiver		T 4 11	Rx Antenna		Corrected	Corrected	FCC Part 18	
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height	Polar (H / V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4928.08	36.67	Ave.	312	2.1	Н	6.21	42.88	70.73	27.85
4916.27	33.37	Ave.	65	2.2	V	6.21	39.58	70.73	31.15
7412.45	37.12	Ave.	282	1.3	Н	13.02	50.14	70.73	20.59
7418.10	33.09	Ave.	272	1.2	V	13.02	46.11	70.73	24.62
9904.42	32.41	Ave.	286	1.6	Н	14.75	47.16	70.73	23.57
9903.46	37.09	Ave.	7	2.1	V	14.75	51.84	70.73	18.89

## Note:

- Corrected Amplitude = Meter Reading + Correction Factor
  Correction Factor = Antenna Factor + Cable Loss Amplifier Gain
- 3) Margin = Limit Corrected Amplitude
- The data below 20dB to the limit was not recorded.

\*\*\*\*\* END OF REPORT \*\*\*\*\*

FCC Part 18 Page 22 of 22