



RF Test Report

For

Globe Electric Company Inc.

	Part 15C Subpart C §15.247			
Test Standards:	IC RSS-247 Issue 2			
Product Name:	Wi-Fi Smart Outdoor Power Adapter			
Tested Model:	<u>50333</u>			
Brand Name:	Globe			
FCC ID:	2AQUQGE50333			
IC:	8290A-GE50333			
Classification	(DTS) Digital Transmission System			
Report No.:	EC2109022RF02			
Tested Date:	2021-09-16 to 2021-12-02			
Issued Date:	2021-12-02			
Prepared By:	Jack Lur.			
	Jack Liu / Engineer			
Approved By:	Tim Kang			
	Tiny Yang / RF Manager			
Hunan Ecloud Testing Technology Co., Ltd.				
Building A1, Changsha E Center, No. 18 Xiangtai Avenue, Liuyang Economic and				
Technological Development Zone, Hunan, P.R.C				
Tel.: +86-731-89634887 Fax.: +86-731-89634887				
www.hn-ecloud.com				

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2021.12.02	Valid	Update the PCB
				board based on the
				original report
				EC2011039RF02+A1,
				replace non-RF
				components for
				verification test



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Summary of Test RESULT

FCC Rule	IC Rule	Description	Limit	Result	Remark	
15.247(d)	RSS-247	Conducted Band Edges	< 20dBc	Deee	_	
15.247 (u)	5.5	and Spurious Emission		F 855	-	
			15.209(a) &			
	RSS-247 5.5	Radiated Band Edges and Spurious Emission	15.247(d)		Under limit	
15.247(d)			RSS-247 5.5 &	Pass	7.72 dB at	
			RSS-Gen Table		59.232 MHz	
			5 , Table 6			
	RSS-GEN 8.8		15.207(a)		Under limit	
15.207		AC Conducted Emission	RSS-GEN	Pass	5.63 dB at	
			8.8 Table 4		0.437 MHz	



1. Test Laboratory

1.1 Test facility

CNAS (accreditation number:L11138)

Hunan Ecloud Testing Technology Co., Ltd. has obtained the accreditation of China National Accreditation

Service for Conformity Assessment (CNAS).

FCC (Designation number:CN1244, Test Firm Registration

Number:793308)

Hunan Ecloud Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission

list of test facilities recognized to perform electromagnetic emissions measurements.

ISED(CAB identifier: CN0012, ISED# :24347)

Hunan Ecloud Testing Technology Co., Ltd. has been listed on the Wireless Device Testing Laboratories list of

innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements.

A2LA (Certificate Number: 4895.01)

Hunan Ecloud Testing Technology Co., Ltd. has been listed by American Association for Laboratory

Accreditation to perform electromagnetic emission measurement.



2. General Description

2.1 Applicant

Globe Electric Company Inc.

150 Oneida, Montreal, Quebec, Canada, H9R 1A8

2.2 Manufacturer

Globe Electric Company Inc.

150 Oneida, Montreal, Quebec, Canada, H9R 1A8

2.3 General Description Of EUT

Product	Wi-Fi Smart Outdoor Power Adapter	
Model No.	50333	
Brand Name	Globe	
Additional No.	N/A	
Difference Description	N/A	
FCC ID	2AQUQGE50333	
IC	8290A-GE50333	
Power Supply	125Vac	
Modulation Technology	BLE	
Modulation Type	GFSK	
Operating Frequency	2402MHz~2480MHz	
Number Of Channel	40	
Antenna Type	PCB Antenna type with -1dBi gain	
HW Version	V0.2	
SW Version	smart_plug 1.0-alpha	
I/O Ports	Refer to user's manual	

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 3. *: Pre-test AC120V and AC125V, only the worst AC125V test data is recorded in the report



2.4 Modification of EUT

No modifications are made to the EUT during all test items.

2.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- ANSI C63.10-2013
- KDB 558074 D01 15.247 Meas Guidance v05r02
- IC RSS-247 Issue 2
- IC RSS-Gen Issue 5

Remark:

1. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B&ICES-003, recorded in a separate test report.



3. Test Configuration of Equipment Under Test

3.1 Descriptions of Test Mode

The transmitter has a maximum peak conducted output power as follows:

Channel	Frequency	Mode	Bluetooth RF Output Power
Ch00	2402MHz	GFSK	8.71
Ch19	2440MHz	GFSK	7.94
Ch39	2480MHz	GFSK	8.68

a. Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

3.2 Test Mode

3.2.1 Antenna Port Conducted Measurement

Summary table of Test Cases				
Toot Itom	Data Rate / Modulation			
Test nem	Bluetooth 4.2 – LE GFSK			
Conducted	Mode 1: CH00_2402 MHz			
	Mode 2: CH19_2440 MHz			
	Mode 3: CH39_2480 MHz			

3.2.2 Radiated Emission Test (Below 1GHz)

Radiated	Bluetooth 4.2 – LE GFSK
Test Cases	Mode 1: CH00_2402 MHz

Note : 1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type. Z orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z orientation.

2. Following channel(s) was (were) selected for the final test as listed above



3.2.3 Power Line Conducted Emission Test:

AC	
Conducted	Mode 1 : BT Linking + Switching On + Lighting
Emission	

3.3 Support Equipment

Item	Equipment	Trade Name	Trade Name Model Name FCC ID Data Cable		Data Cable	Power Cord
1.	WLAN AP	NETGARE	R7800	PY315100319	N/A	unshielded AC I/P cable1.2 m
2.	Notebook	Lenovo	E470C	FCC DoC	N/A	shielded cable DC O/P 1.8 m unshielded AC I/P cable1.2 m
3.	WiFi Smart Bulb	Globe	34202*	2AQUQGB34202	N/A	N/A

3.4 Test Setup

The EUT is continuously communicating to the Bluetooth tester during the tests.

EUT was set in the Hidden menu mode to enable BT communications.

The following picture is a screenshot of the test software

EspRFtestTool				_		×
ools Help						
ipType ESP8266 🔻	Сом	🗕 BaudRate	9600	•		
DIS					RAM	•
				0%	load	bin
wifi Test BT Test Test Mode: TX continues 💌 Attenuation(dB)	wifi Adaptivity Ma WiFi Rate: 11b 1M 👻	anual BandWidth: 20M	v	Channel: 1/2412	~	
0 x). 25		ctort	c.	ton	
					- · F	

Setup diagram for Conducted Test



Setup diagram for Radiation(9KHz~30MHz) Test



Setup diagram for Radiation(Below 1G) Test





Setup diagram for Radiation (Above1G) Test



Setup diagram for AC Conducted Emission Test



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



3.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 5 + 10 = 15 (dB)

For all radiated test items:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level Over Limit (dB μ V/m) = Level(dB μ V/m) - Limit Level (dB μ V/m)



4. Test Result

4.1 Conducted Band Edges and Spurious Emission Measurement

4.1.1 Limit of Conducted Band Edges and Spurious Emission

FCC §15.247 (d)

IC RSS-247 5.5

Maximum conducted (average) output power was used to determine compliance, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

4.1.2 Test Procedures

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Turn on the EUT and connect it to measurement instrument.
- 3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 4. Measure and record the results in the test report.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

4.1.3 Test Result of Conducted Band Edges

Refer to Appendix E of this test report.

4.1.4 Test Result of Conducted Spurious Emission

Refer to Appendix F of this test report.



4.2 Radiated Band Edges and Spurious Emission Measurement

4.2.1 Limit of Radiated Band Edges and Spurious Emission

FCC §15.247 (d)

IC RSS-247 5.5

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

4.2.2 Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The measurement distance is 3 meter.
- 3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 4. Set to the maximum power setting and enable the EUT transmit continuously.
- 5. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz ; VBW RBW; Sweep = auto;
 Detector function = peak; Trace = max hold for peak
 - (3) For average measurement:

VBW = 10 Hz, when duty cycle is no less than 98 percent.

VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission



duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

4.2.3 Test Result of Radiated Spurious Emission (30MHz ~ 1GHz)

Test Mode :	BLE CH00 (2402	MHz)	Tempera	ture :	21~23 ℃	
Test Engineer :	Jack Liu		Relative	Humidity :	61~63%	
Frequencey Rang	e 30MHz~1GHz		Polarizat	ion :	Horizonta	Ι
Data: 9 80 ^{Level} (dE	3uV/m)				Date: 202	1-12-02
70						
60					ECC PA	RT15B
50						-6dB
40						
30 20 10	www.hun	2 ++++++++++++++++++++++++++++++++++++	JM	A mark	6 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Land and Marks
0 ₃₀	50	100 20 Frequency (00 MHz)	50	00	1000
Freq Re le MHz dB	ading Antenna vel factor uV dB/m	Cable Preamp loss factor dB dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2. 82 13. 58 4. 68 14. 21 4. 32 10. 70 9. 61 13. 86 3. 23 17. 03 7. 69 20. 22	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	25. 16 18. 46 24. 82 24. 05 21. 53 30. 24	40.00 43.50 43.50 46.00 46.00 46.00	-14.84 -25.04 -18.68 -21.95 -24.47 -15.76	QP QP QP QP QP QP QP



Test Mode :	BLE CH00 (2402	MHz)		Tempera	ture :	21~23 ℃	
Test Engineer :	Jack Liu			Relative	Humidity :	61~63%	
Frequencey Range	30MHz~1GHz			Polarizat	ion :	Vertical	
Data: 10 _{oo} Level (dBu	ıV/m)					Date: 20	21-12-02
70							
60						FCC PA	RT15B
50							-6dB
40							
30 20 10		hum mark	minin		Windowsk	6 du Aradana	provention and the
030	50	100	20	0	5	00	1000
		Fre	equency (N	/Hz)			
Freq Rea lev MHz dBu	ding Antenna el factor V dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$. 02 14. 28 .71 14. 87 . 05 8. 92 .71 14. 13 . 92 11. 56 . 27 18. 07	0.99 1.28 1.51 2.14 2.74 4.29	32. 60 32. 58 32. 53 32. 56 32. 60 32. 73	30. 69 32. 28 24. 95 20. 42 22. 62 20. 90	$\begin{array}{c} 40.\ 00\\ 40.\ 00\\ 40.\ 00\\ 43.\ 50\\ 46.\ 00\\ 46.\ 00 \end{array}$	-9.31 -7.72 -15.05 -23.08 -23.38 -25.10	QP QP QP QP QP QP



4.3 AC Conducted Emission Measurement

4.3.1 Limit of AC Conducted Emission

FCC §15.207

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of omission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

4.3.2 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.





4.3.3 Test Result of AC Conducted Emission

Result Level= Reading Level + LISN Factor + Cable Loss





Result Level= Reading Level + LISN Factor + Cable Loss

5. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	Keysight	N9010A	MY56070788	2021-01-05	2022-01-04	Conducted
Power Sensor	Keysight	U2021XA	MY56510025	2021-01-05	2022-01-04	Conducted
Power Sensor	Keysight	U2021XA	MY57030005	2021-01-05	2022-01-04	Conducted
Power Sensor	Keysight	U2021XA	MY56510018	2021-01-05	2022-01-04	Conducted
Power Sensor	Keysight	U2021XA	MY56480002	2021-01-05	2022-01-04	Conducted
Thermal Chamber	Howkin	UHL-34	19111801	2021-04-21	2022-04-20	Conducted
Base Station	R&S	CMW 270	101231	2021-01-05	2022-01-04	Conducted
Signal Generator (Interferer)	Keysight	N5182B	MY56200384	2021-01-05	2022-01-04	Conducted
Signal Generator (Blocker)	Keysight	N5171B	MY56200661	2021-01-05	2022-01-04	Conducted

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV 40	101433	2021-01-05	2022-01-04	Radiation
Amplifier	Sonoma	310	363917	2021-01-06	2022-01-05	Radiation
Amplifier	Schwarzbeck	BBV 9718	327	2021-01-06	2022-01-05	Radiation
Amplifier	Narda	TTA1840-35-HG	2034380	2021-11-27	2024-11-26	Radiation
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-051	2020-02-14	2023-02-13	Radiation
Broadband Antenna	Schwarzbeck	VULB 9168	9168-757	2020-09-27	2023-09-26	Radiation
Horn Antenna	Schwarzbeck	BBHA 9120 D	1677	2020-02-14	2023-02-13	Radiation
Horn Antenna	COM-POWER	AH-1840	101117	2021-06-05	2024-06-04	Radiation
Test Software	Audix	E3	6.111221a	N/A	N/A	Radiation
Filter	Micro-Tronics	BRM 50702	G266	N/A	N/A	Radiation



Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
LISN	R&S	ENV216	102125	2021-01-05	2022-01-04	Conducted
LISN	R&S	ENV432	101327	2021-01-06	2022-01-05	Conducted
EMI Test	R&S	ESB3	102143	2021-01-06	2022-01-05	Conducted
Receiver	100	LONG	102143	2021-01-00	2022-01-03	Conducted
EMI Test	Andix	FO	N1/A	N1/A	N1/A	Conducted
Software	Audix	E3	IN/A	IN/A	IN/A	Conducted

N/A: No Calibration Required



6. Uncertainty of Evaluation

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.42dB
	30MHz ~ 1GMHz	2.50dB
Radiated emission	1GHz ~ 18GHz	3.51dB
	18GHz ~ 40GHz	3.96dB

MEASUREMENT	UNCERTAINTY
Occupied Channel Bandwidth	±196.4Hz
RF output power, conducted	±2.31dB
Power density, conducted	±2.31dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
	A pt1	Low	2402	1.85	-36.09	≤-18.15	PASS
DLC_1M	AIIT	High	2480	5.37	-46.18	≤-14.63	PASS



Test Graphs





Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange	RefLevel	Result[dBm]	Limit[dBm]	Verdict
restinoue	Antenna	Onanner	[MHz]	[dBm]	Resultabili	Linit(Opinj	Verdict
			Reference	1.49	1.49		PASS
		2402	30~1000	1.49	-57.18	≤-18.51	PASS
			1000~26500	1.49	-37.76	≤-18.51	PASS
			Reference	1.38	1.38		PASS
BLE_1M	Ant1	2440	30~1000	1.38	-57.96	≤-18.62	PASS
			1000~26500	1.38	-38.6	≤-18.62	PASS
			Reference	4.75	4.75		PASS
		2480	30~1000	4.75	-55.03	≤-15.26	PASS
			1000~26500	4.75	-37.57	≤-15.26	PASS



Test Graphs





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Constan From FAC 000000 MUL	ALIGN AUTO 03:03:06 PM Dec 01, 2021	requency
PNO: Fast IFGain:Low #Atten: 20 dB	Avg Hold: 10/10 TVPE	A
Ref Offset 8.03 dB 10 dB/div Ref 18.03 dBm	Mkr1 931.81 MHz -57.964 dBm	Auto Tune
Log		Center Freq
803	51	5.000000 MHz
-1.37	3	Start Freq
12.0	DL1 -18.62 dBm	
-22.0	1.00	Stop Freq 00000000 GHz
-32.0		CE Step
-42.0	9 <u>Auto</u>	7.000000 MHz Man
-52.0		Freq Offset
- 62.0 explore you have been appreciate the second se	e de la composition de la contra de la contra Contra contra de la dela contra de la develo d	0 Hz
		Scale Type
Start 0.0300 GHz #Res BW 100 kHz #VBW 300 kHz*	Stop 1.0000 GHz	Lin
MSG	STATUS	
BLE_1M_Ant1_24	40_1000~26500	
Keysight Spectrum Analyzer - Swept SA Image: RL RF 50 Ω AC SENSE:INT	ALIGN AUTO 03:03:41 PMDec 01, 2021	
Center Freq 13.75000000 GHz PNO: Fast + Trig: Free Run IFGain:Low #Atten: 20 dB	#Avg Type: RMS TRACE 123456 Avg Hold: 10/10 TYPE M	requency
Ref Offset 8.03 dB	Mkr2 26.027 40 GHz -38.600 dBm	Auto Tune
		Center Freq
-1.97	13.76	50000000 GHz
-22.0	2	Start Freq
420		5000000 GH2
		Stop Freq
	26.50	0000000 GHz
720 Start 1 00 GHz	Stop 26.50 CH2	CE Step
720 Start 1.00 GHz #Res BW 100 kHz #VBW 300 kHz	Stop 26.50 GHz Sweep 2.438 s (30001 pts)	0000000 GHz CF Step 5000000 GHz Man
Y20 Y20 Start 1.00 GHz #VBW 300 kHz #Res BW 100 kHz #VBW 300 kHz Imm MODE TRC: SCL X 1 1 2 N 1 1 2 N 1 1	Stop 26.50 GHz Sweep 2.438 s (30001 pts) ICTON FUNCTION MOTH FUNCTION VALUE	0000000 GHz CF Step 50000000 GHz Man
Y2:0 YUN YUN <td>Stop 26.50 GHz Sweep 2.438 s (30001 pts) Intron WOTH FUNCTION VALUE</td> <td>CF Step S000000 GHz Man Freq Offset 0 Hz</td>	Stop 26.50 GHz Sweep 2.438 s (30001 pts) Intron WOTH FUNCTION VALUE	CF Step S000000 GHz Man Freq Offset 0 Hz
Top Yes Yes <thyes< th=""> <thyes< th=""> <thyes< th=""></thyes<></thyes<></thyes<>	Stop 26.50 GHz Sweep 2.438 s (30001 pts) ICTON FUNCTION MIGTH FUNCTION VALUE	0000000 GHz CF Step 50000000 GHz Man Freq Offset 0 Hz Scale Type
Y20 Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Stop 26.50 GHz Sweep 2.438 s (30001 pts) ICTION FUNCTION WIDTH FUNCTION VALUE	CF Step 50000000 GHz Man Freq Offset 0 Hz Scale Type Lin



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Appendix G: Setup Photographs



Fig. 1 Radiated emission setup photo(30MHz-1GHz)



Fig. 2 Power line conducted emission setup photo

-----End of the report-----End of the report-----

Building A1, Changsha E Center, No. 18 Xiangtai Avenue, Liuyang Economic and Technological Development Zone, Hunan, P.R.C FCC ID : 2AQUQGE50333 IC : 8290A-GE50333 www.hn-ecloud.com Tel.:+86-731-89634887 Fax.: +86-731-89634887