

Verification of Conformity
On Behalf of
Shenzhen Smart Team Technology Ltd.

Wall charger
Model No.: PCC2013

Prepared for : Shenzhen Smart Team Technology Ltd.
Address : Xutai Industrial Zone, Longwo Road, Longtian Village, Kengzi
Town, Longgang District, Shenzhen, Guangdong, China
Tel: 0755-84115784
Fax: 0755-89995954

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited
Address : 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road,
Nanshan District, Shenzhen, Guangdong, China
Tel: (86) 755-26066544
Fax: (86) 755-26014772

Report Number : 201312791F
Date of Test : Dec. 17~24, 2013
Date of Report : Dec. 25, 2013

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APPENDIX I (Photos of EUT) (3 Pages)

TEST REPORT VERIFICATION

Applicant : Shenzhen Smart Team Technology Ltd.
Manufacturer : Shenzhen Smart Team Technology Ltd.
EUT : Wall charger
Model No. : PCC2013
Rating : Input: DC 10.8-12.6V
 Output: DC 1A, 5W
Trade Mark : N.A.

Measurement Procedure Used:

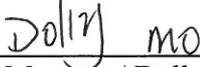
FCC Rules and Regulations Part 15 Subpart B 2012 & FCC / ANSI C63.4-2009

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited

Date of Test : Dec. 17~23, 2013

Prepared by : 
(Engineer/ Barak Ban)

Reviewer : 
(Project Manager/ Dolly Mo)

Approved & Authorized Signer : 
(Manager/ Tom Chen)



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : Wall charger

Model Number : PCC2013

Test Power Supply : DC 12V

Applicant : Shenzhen Smart Team Technology Ltd.
Address : Xutai Industrial Zone, Longwo Road, Longtian Village,
Kengzi Town, Longgang District, Shenzhen, Guangdong,
China

Manufacturer : Shenzhen Smart Team Technology Ltd.
Address : Xutai Industrial Zone, Longwo Road, Longtian Village,
Kengzi Town, Longgang District, Shenzhen, Guangdong,
China

Date of Sample received : Nov. 17, 2013

Date of Test : Dec. 17~23, 2013

1.2. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS - LAB Code: L3503

Shenzhen Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

FCC-Registration No.: 752021

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, July 10, 2013

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A-1, Feb. 22, 2013

Test Location

All Emissions tests were performed
Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

1.3. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.3dB

Conduction Uncertainty : Uc = 3.4dB

1.4. Test Summary

For the EUT described above. The standards used were FCC Part 15 Subpart B for Emissions.

Table 1 : Tests Carried Out Under FCC Part 15 Subpart B

Standard	Test Items	Status
FCC Part 15 Subpart B	Power Line Conducted Emission Test (150KHz To 30MHz)	x
FCC Part 15 Subpart B	Radiated Emission Test (30MHz To 1000MHz)	√

√ Indicates that the test is applicable

x Indicates that the test is not applicable

2. RADIATED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

2.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 23, 2013	1 Year
2.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	May 14, 2013	3 Year
3.	Pre-amplifier	SONOMA	310N	186860	Aug. 09, 2013	1 Year

2.2. Block Diagram of Test Setup

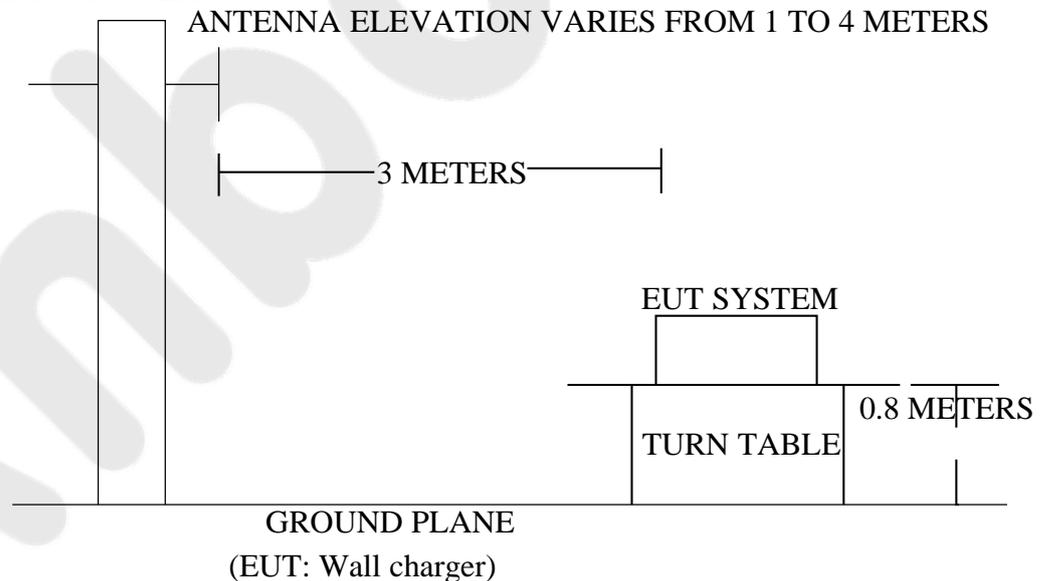
2.2.1. Block diagram of connection between the EUT and simulators



(EUT: Wall charger)

2.2.2. Anechoic Chamber Test Setup Diagram

ANTENNA TOWER



2.3. Radiated Emission Limit (Subpart B Class B)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0

- Remark :
- (1) Emission level (dB) μ V = 20 log Emission level μ V/m
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

2.4. EUT Configuration on Measurement

The following equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

EUT : Wall charger
Model Number : PCC2013
Applicant : Shenzhen Smart Team Technology Ltd.

2.5 Operating Condition of EUT

- 2.5.1. Setup the EUT as shown in Section 2.2.
- 2.5.2. Let the EUT work in test mode (Full Load) and measure it.

2.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (Trilog Broadband Antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission measurement.

The bandwidth of the EMI test receiver (ESCI) is set at 120kHz.

The frequency range from 30MHz to 1000MHz is checked.

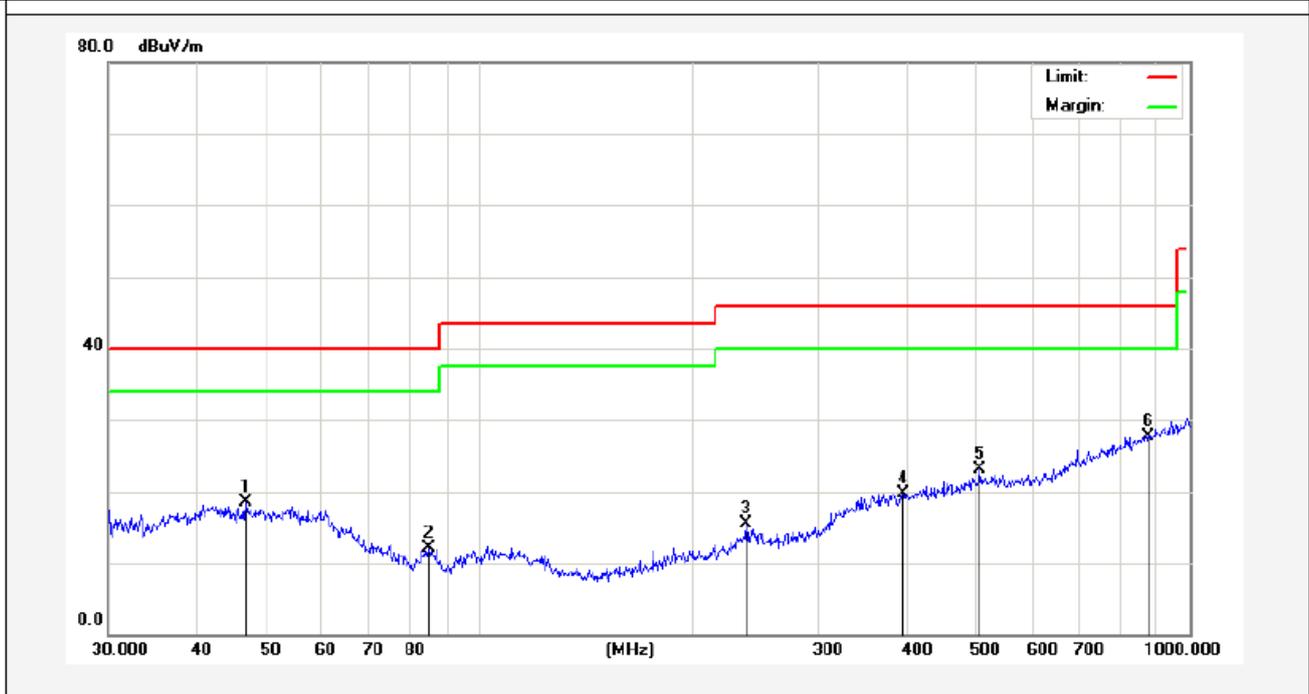
The test mode is tested in chamber and all the test results are listed in Section 2.7.

2.7. Radiated Emission Measurement Results

PASS.

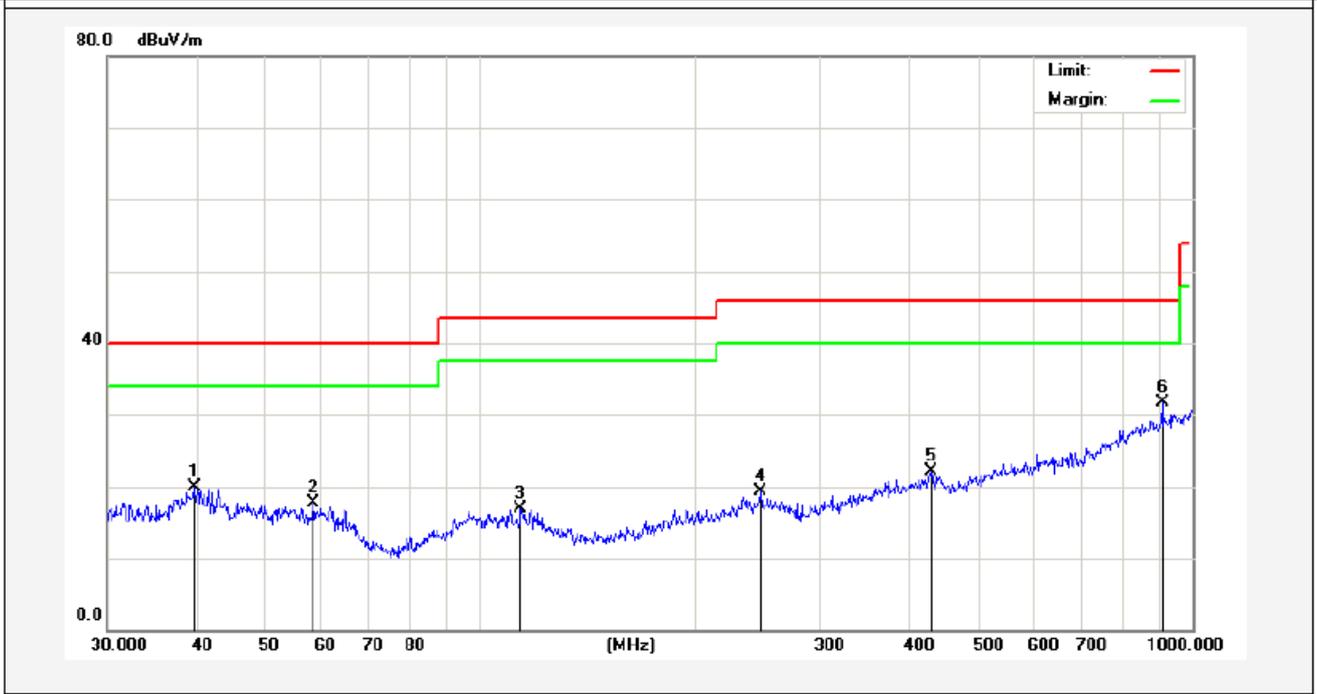
The test curves are shown in the following pages.

Job No.:	AT1312731F	Polarization:	Horizontal
Standard:	(RE)FCC PART15 B _3m	Power Source:	DC 12V
Test item:	Radiation Test	Date:	2013/12/17
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	11:10:38
EUT:	Wall charger	Test By:	Kebo Zhang
Model:	PCC2013	Distance:	3m
Note:	Full Load		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	46.8303	33.01	-14.42	18.59	40.00	-21.41	peak			
2	84.7019	32.55	-20.45	12.10	40.00	-27.90	peak			
3	237.4760	33.75	-18.34	15.41	46.00	-30.59	peak			
4	394.8544	32.63	-12.97	19.66	46.00	-26.34	peak			
5	506.4791	34.17	-10.97	23.20	46.00	-22.80	peak			
6	875.2470	32.89	-5.17	27.72	46.00	-18.28	peak			

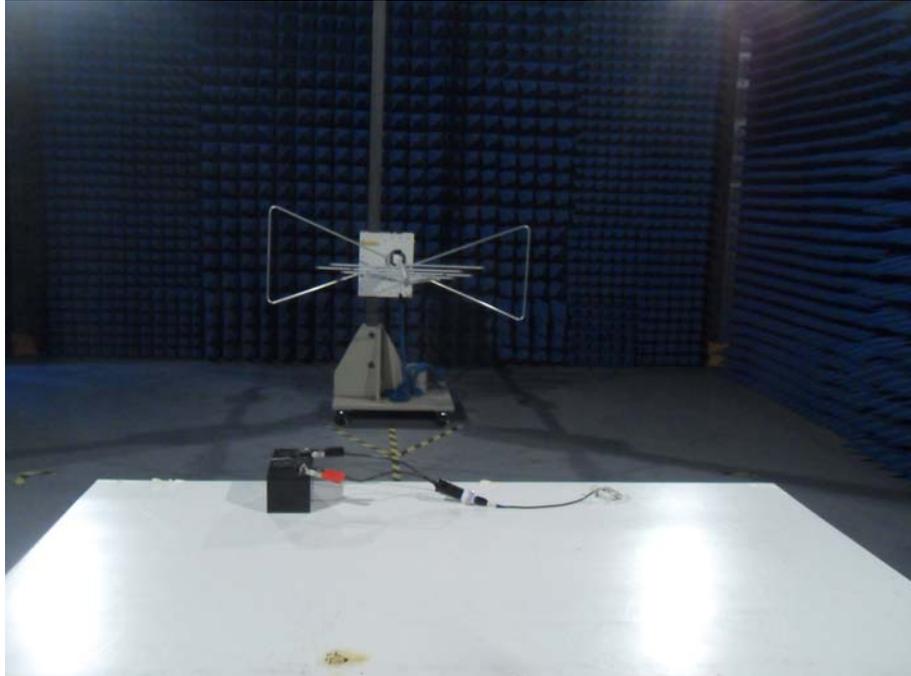
Job No.:	AT1312731F	Polarization:	Vertical
Standard:	(RE)FCC PART15 B _3m	Power Source:	DC 12V
Test item:	Radiation Test	Date:	2013/12/17
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	11:14:42
EUT:	Wall charger	Test By:	Kebo Zhang
Model:	PCC2013	Distance:	3m
Note:	Full Load		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.7146	34.46	-14.47	19.99	40.00	-20.01	peak			
2	58.4074	33.00	-15.26	17.74	40.00	-22.26	peak			
3	114.1138	32.75	-15.92	16.83	43.50	-26.67	peak			
4	247.6819	33.34	-14.06	19.28	46.00	-26.72	peak			
5	429.5228	33.42	-11.24	22.18	46.00	-23.82	peak			
6	906.4823	35.28	-3.66	31.62	46.00	-14.38	peak			

3. PHOTOGRAPH

3.1. Photo of Radiation Emission Test



APPENDIX I
(Photos of EUT)

Figure 1
The EUT-Front View



Figure 2
The EUT-Back View



Figure 3
The EUT-Inside View



Figure 4
PCB of The EUT-Front View

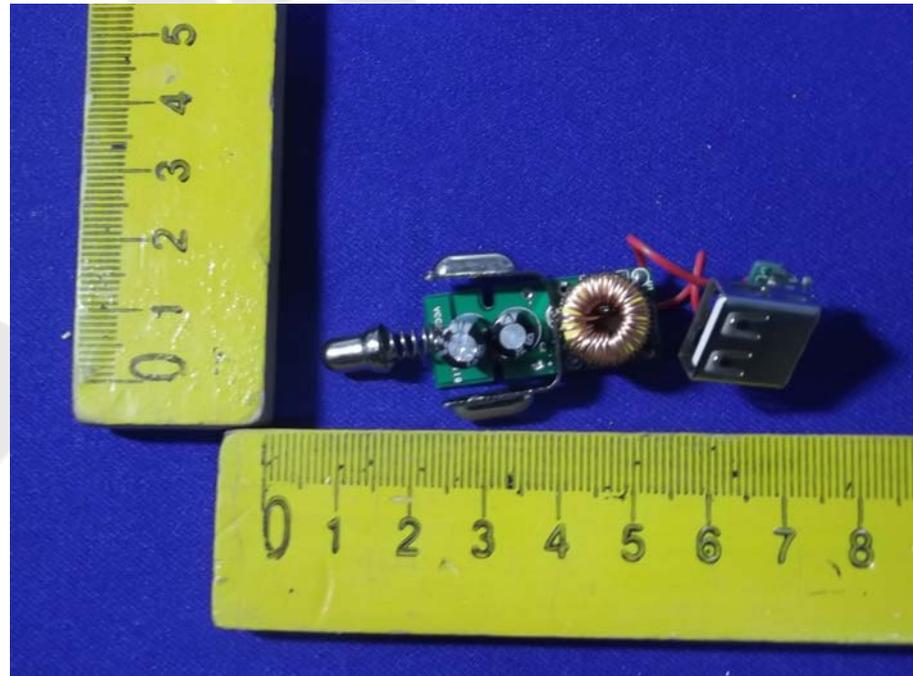


Figure 5
PCB of The EUT-Back View

