

EMC TEST REPORT
for
SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.

Adapter
Model No.: WDY-XXXYYYYY
(XXX=030-300 indicates rated output voltage range 3.0-30.0V;
YYYYY=00200-12000 indicates rated output current range 200-12000mA)

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TABLE OF CONTENTS

Description

Page

Test Report Verification

1. GENERAL INFORMATION	6
1.1. Description of Device (EUT).....	6
1.2. Description of Test Facility	7
1.3. Measurement Uncertainty	7
1.4. Test Summary	8
1.5. Model list.....	9
2. POWER LINE CONDUCTED EMISSION TEST.....	10
2.1. Block Diagram of Test Setup	10
2.2. Measuring Standard	10
2.3. Power Line Conducted Emission Limits	10
2.4. EUT Configuration on Measurement	10
2.5. Operating Condition of EUT	11
2.6. Test Procedure	11
2.7. Test Equipment.....	11
2.8. Measuring Results	11
3. RADIATED EMISSION TEST	14
3.1. Block Diagram of Test.....	14
3.2. Measuring Standard	14
3.3. Radiated Emission Limits	14
3.4. EUT Configuration on Test	15
3.5. Operating Condition of EUT	15
3.6. Test Procedure	15
3.7. Test Equipment.....	15
3.8. Measuring Results	15
4. HARMONIC CURRENT EMISSION TEST.....	18
4.1. Block Diagram of Test Setup	18
4.2. Measuring Standard	18
4.3. Operation Condition of EUT	18
4.4. Test Equipment.....	18
4.5. Measuring Results	18
5. VOLTAGE FLUCTUATION AND FLICKER TEST	20
5.1. Block Diagram of Test Setup	20
5.2. Measuring Standard	20
5.3. Operation Condition of EUT	20
5.4. Test Equipment.....	20
5.5. Measuring Results	20
6. ELECTROSTATIC DISCHARGE IMMUNITY TEST.....	22
6.1. Block Diagram of Test Setup	22
6.2. Measuring Standard	22
6.3. Severity Levels and Performance Criterion.....	22
6.4. EUT Configuration	22
6.5. Operating Condition of EUT	22
6.6. Test Procedure	23

6.7. Test Equipment.....	23
6.8. Measuring Results	23
7. RF FIELD STRENGTH SUSCEPTIBILITY TEST	25
7.1. Block Diagram of Test.....	25
7.2. Measuring Standard	25
7.3. Severity Levels and Performance Criterion.....	25
7.4. EUT Configuration on Test	26
7.5. Operating Condition of EUT	26
7.6. Test Procedure	26
7.7. Test Equipment.....	26
7.8. Measuring Results	26
8. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST	28
8.1. Block Diagram of Test Setup	28
8.2. Measuring Standard	28
8.3. Severity Levels and Performance Criterion.....	28
8.4. EUT Configuration	28
8.5. Operating Condition of EUT	29
8.6. Test Procedure	29
8.7. Test Equipment.....	29
8.8. Measuring Results	29
9. SURGE IMMUNITY TEST.....	31
9.1. Block Diagram of Test Setup	31
9.2. Measuring Standard	31
9.3. Severity Levels and Performance Criterion.....	31
9.4. EUT Configuration	31
9.5. Operating Condition of EUT	32
9.6. Test Procedure	32
9.7. Test Equipment.....	32
9.8. Measuring Results	32
10. INJECTED CURRENTS SUSCEPTIBILITY TEST.....	34
10.1. Block Diagram of Test Setup	34
10.2. Measuring Standard	34
10.3. Severity Levels and Performance Criterion.....	34
10.4. EUT Configuration	34
10.5. Operating Condition of EUT	35
10.6. Test Procedure	35
10.7. Test Equipment.....	35
10.8. Measuring Results	35
11. VOLTAGE DIPS AND INTERRUPTIONS TEST	37
11.1. Block Diagram of Test Setup	37
11.2. Measuring Standard	37
11.3. Severity Levels and Performance Criterion.....	37
11.4. EUT Configuration	37
11.5. Operating Condition of EUT	38
11.6. Test Procedure	38
11.7. Test Equipment.....	38
11.8. Measuring Results	38
12. PHOTOGRAPHS	40
12.1. Photo of Power Line Conducted Emission Test	40
12.2. Photo of Radiated Emission Test.....	40
12.3. Photo of Flicker/Harmonic Test	41
12.4. Photo of Electrostatic Discharge Test.....	41
12.5. Photo of RF Field Strength susceptibility Test.....	42
12.6. Photo of Electrical Fast Transient/Burst Immunity Test	42

12.7. Photo of Surge Immunity Test.....	43
12.8. Photo of Injected currents susceptibility test.....	43

APPENDIX I (Photos of the EUT) (3 pages)

APPENDIX II (CE Label) (1 page)

TEST REPORT VERIFICATION

Applicant : SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.
 Manufacturer : SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.
 EUT : Adapter
 Model No. : WDY-XXXYYYYY
 (XXX=030-300 indicates rated output voltage range 3.0-30.0V;
 YYYYY=00200-12000 indicates rated output current range
 200-12000mA)
 Rating : Input: 100-240V~, 50/60Hz, 2A
 Output: (for details see Chapter 1.5)
 Trade Mark : N.A.

Measurement Procedure Used:

EN 55022: 2010;
 EN 61000-3-2: 2006+A1: 2009+A2: 2009;
 EN 61000-3-3: 2008;
 EN 55024: 2010;
 (IEC 61000-4-2: 2008; IEC 61000-4-3: 2010; IEC 61000-4-4: 2011;
 IEC 61000-4-5: 2005; IEC 61000-4-6: 2008; IEC 61000-4-11: 2004)

The device described above is tested by Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the EN 55022, EN 61000-3-2, EN 61000-3-3, and EN 55024 requirements. The Project in IEC 61000-4-3 was tested in Shenshen EMTEK Co., Ltd.

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

Date of Test : Aug. 01~15, 2012

Barak Ban

Prepared by :

(Engineer/ Barak Ban)

Amy Ding

Reviewer :

(Project Manager/ Amy Ding)

Tom. Chen

Approved & Authorized Signer :

(Manager/ Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Adapter
Model Number	:	WDY-XXXXYYYYY (XXX=030-300 indicates rated output voltage range 3.0-30.0V; YYYYY=00200-12000 indicates rated output current range 200-12000mA) (Note: All samples are the same except the model number & Output of appliances, so we prepare “WDY-12010000” for EMC test only.)
Test Power Supply	:	AC 230V, 50Hz
Applicant Address	:	SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD. 5/F, C Building, Jinshan Industrial Park, No. 52 Road 2, Dalangshan, Wanfeng, Shajing Town, Baoan District, Shenzhen, China
Manufacturer Address	:	SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD. 5/F, C Building, Jinshan Industrial Park, No. 52 Road 2, Dalangshan, Wanfeng, Shajing Town, Baoan District, Shenzhen, China
Date of Sample	:	Aug. 01, 2012
Date of Test	:	Aug. 01~15, 2012

1.2. Description of Test Facility

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

FCC-Registration No.: 752021

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, August 20, 2010.

IC-Registration No.: 8058A-1

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, August 30, 2010.

CNAS - LAB Code: L3503

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.

Test Location

All Emissions tests were performed
Anbotek Compliance Laboratory Limited. at 1/F, 1/Building, SEC Industrial Park, No.4 Qianhai Road, Nanshan District, Shenzhen, 518054, China

1.3. Measurement Uncertainty

Radiation Uncertainty : $U_r = 4.3\text{dB}$

Conduction Uncertainty : $U_c = 3.4\text{dB}$

1.4. Test Summary

For the EUT described above. The standards used were EN 55022 for Emissions & EN 55024 for Immunity.

Table 1 : Tests Carried Out Under EN 55022: 2010

Standard	Test Items	Status
EN 55022: 2010	Power Line Conducted Emission Test (150KHz To 30MHz)	√
EN 55022: 2010	Radiated Emission Test (30MHz To 1000MHz)	√

Table 2 : Tests Carried Out Under EN 61000-3-2: 2006+A1: 2009+A2: 2009 / EN 61000-3-3: 2008

Standard	Test Items	Status
EN 61000-3-2: 2006+A1:2009+A2: 2009	Harmonic Current Test	√
EN 61000-3-3: 2008	Voltage Fluctuations and Flicker Test	√

Table 3 : Tests Carried Out Under EN 55024: 2010

Standard	Test Items	Status
EN 55024: 2010	Electrostatic Discharge immunity Test	√
EN 55024: 2010	RF Field Strength susceptibility Test	√
EN 55024: 2010	Electrical Fast Transient/Burst Immunity Test	√
EN 55024: 2010	Surge Immunity Test	√
EN 55024: 2010	Injected Currents Susceptibility Test	√
EN 55024: 2010	Magnetic Field Susceptibility Test	x
EN 55024: 2010	Voltage Dips and Interruptions Test	√

√ Indicates that the test is applicable

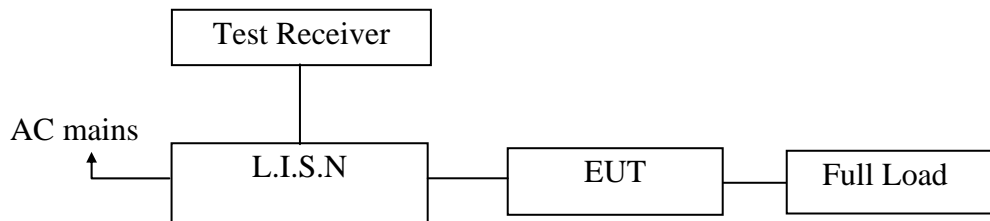
x Indicates that the test is not applicable

1.5. Model list

Model No.:	Rated output voltage (V d.c.)	Rated output current (mA)
WDY-030YYYYY	3	200-12000
WDY-035YYYYY	3.5	200-12000
WDY-040YYYYY	4	200-12000
WDY-045YYYYY	4.5	200-12000
WDY-050YYYYY	5	200-12000
WDY-055YYYYY	5.5	200-12000
WDY-060YYYYY	6	200-12000
WDY-065YYYYY	6.5	200-10000
WDY-070YYYYY	7	200-10000
WDY-075YYYYY	7.5	200-10000
WDY-080YYYYY	8	200-10000
WDY-085YYYYY	8.5	200-10000
WDY-090YYYYY	9	200-10000
WDY-095YYYYY	9.5	200-10000
WDY-100YYYYY	10	200-10000
WDY-110YYYYY	11	200-10000
WDY-115YYYYY	11.5	200-10000
WDY-120YYYYY	12	200-10000
WDY-125YYYYY	12.5	200-9500
WDY-130YYYYY	13	200-9000
WDY-135YYYYY	13.5	200-8500
WDY-140YYYYY	14	200-8500
WDY-145YYYYY	14.5	200-8000
WDY-150YYYYY	15	200-8000
WDY-155YYYYY	15.5	200-7500
WDY-160YYYYY	16	200-7500
WDY-165YYYYY	16.5	200-7000
WDY-170YYYYY	17	200-7000
WDY-175YYYYY	17.5	200-6500
WDY-180YYYYY	18	200-6500
WDY-185YYYYY	18.5	200-6500
WDY-190YYYYY	19	200-6000
WDY-195YYYYY	19.5	200-6000
WDY-200YYYYY	20	200-6000
WDY-210YYYYY	21	200-5500
WDY-215YYYYY	21.5	200-5500
WDY-220YYYYY	22	200-5500
WDY-225YYYYY	22.5	200-5000
WDY-230YYYYY	23	200-5000
WDY-235YYYYY	23.5	200-5000
WDY-240YYYYY	24	200-5000
WDY-245YYYYY	24.5	200-5000
WDY-250YYYYY	25	200-4500
WDY-255YYYYY	25.5	200-4500
WDY-260YYYYY	26	200-4500
WDY-265YYYYY	26.5	200-4500
WDY-270YYYYY	27	200-4000
WDY-280YYYYY	28	200-4000
WDY-290YYYYY	29	200-4000
WDY-300YYYYY	30	200-4000

2. POWER LINE CONDUCTED EMISSION TEST

2.1. Block Diagram of Test Setup



(EUT: Adapter)

2.2. Measuring Standard

EN 55022: 2010

2.3. Power Line Conducted Emission Limits

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0
NOTE1-The lower limit shall apply at the transition frequencies. NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.		

2.4. EUT Configuration on Measurement

The following equipments are installed on Conducted Emission Measurement to meet EN 55022 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

2.4.1. Adapter

Model Number : WDY-12010000
 Serial Number : N/A
 Applicant : SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.

2.5. Operating Condition of EUT

2.5.1. Setup the EUT as shown on Section 2.1.

2.5.2. Turn on the power of all equipments.

2.5.3. Let the EUT work in measuring mode (Full Load) and measure it.

2.6. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the EN 55022 regulations during conducted emission measurement.

The bandwidth of the test receiver (ESCI) is set at 9KHz in 150KHz~30MHz.

The frequency range from 150KHz to 30MHz is investigated for AC mains.

The test results are listed in Section 2.8.

2.7. Test Equipment

The following test equipments are used during the power line conducted emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Nov. 12, 2011	1 Year
2.	LISN	SchwarzBeck	NSLK 8126	8126377	May 19, 2012	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	May 19, 2012	1 Year
4.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A

2.8. Measuring Results

PASS.

The frequency range 150KHz to 30MHz is investigated

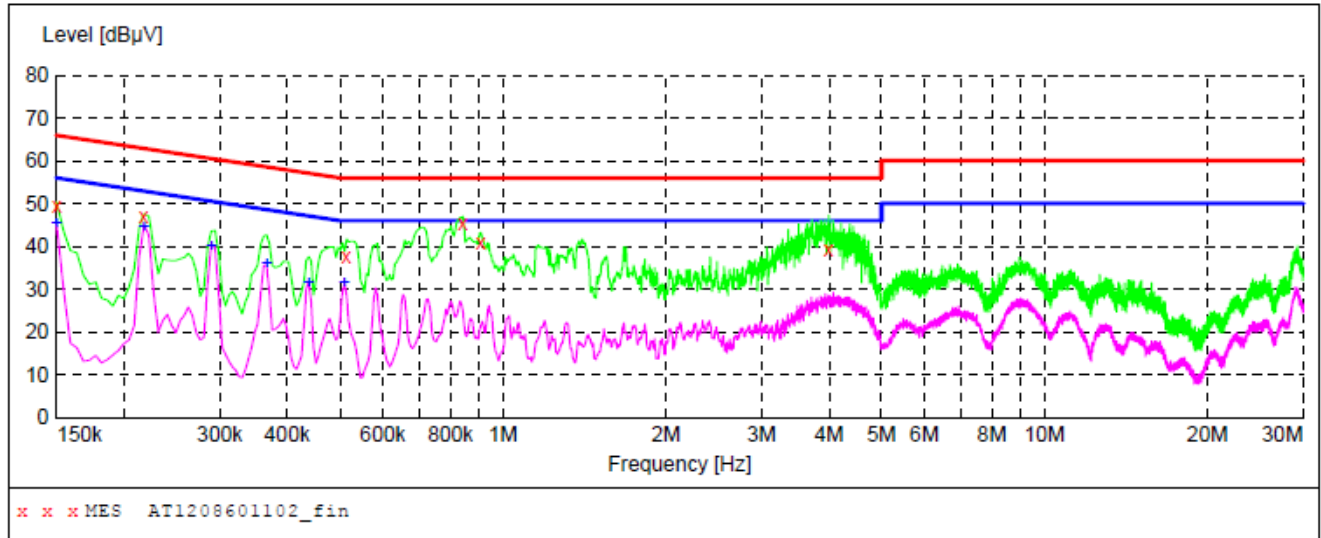
The test curves are shown in the following pages.

CONDUCTED EMISSION TEST DATA

EUT: Adapter M/N: WDY-12010000
 Operating Condition: Full Load
 Test Site: 1# Shielded Room
 Operator: Barak Ban
 Test Specification: AC 230V, 50Hz
 Comment: L
 Tem:22.2°C Hum:60%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages

**MEASUREMENT RESULT: "AT1208601102_fin"**

8/2/2012 11:01AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	49.30	10.1	66	16.7	QP	L1	GND
0.217500	46.90	10.1	63	16.0	QP	L1	GND
0.514500	37.50	10.1	56	18.5	QP	L1	GND
0.843000	45.40	10.1	56	10.6	QP	L1	GND
0.910500	40.80	10.1	56	15.2	QP	L1	GND
3.992500	39.40	10.5	56	16.6	QP	L1	GND

MEASUREMENT RESULT: "AT1208601102_fin2"

8/2/2012 11:01AM

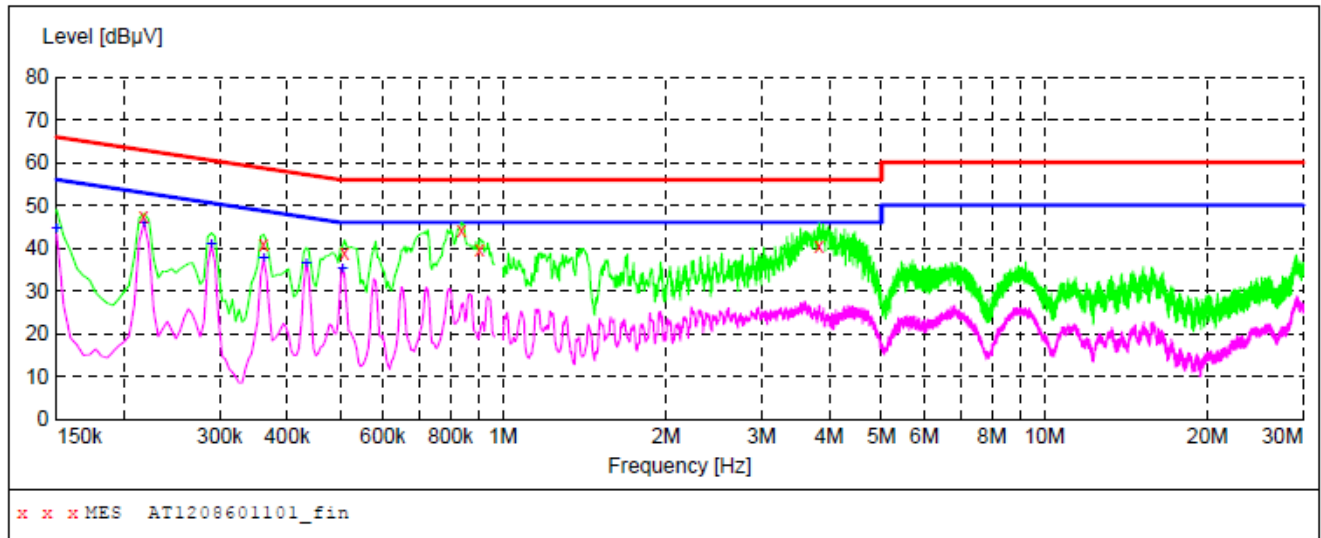
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	45.60	10.1	56	10.4	AV	L1	GND
0.217500	44.80	10.1	53	8.1	AV	L1	GND
0.289500	40.20	10.1	51	10.3	AV	L1	GND
0.366000	35.80	10.1	49	12.8	AV	L1	GND
0.438000	31.60	10.1	47	15.5	AV	L1	GND
0.510000	31.50	10.1	46	14.5	AV	L1	GND

CONDUCTED EMISSION TEST DATA

EUT: Adapter M/N: WDY-12010000
 Operating Condition: Full Load
 Test Site: 1# Shielded Room
 Operator: Barak Ban
 Test Specification: AC 230V, 50Hz
 Comment: N
 Tem:22.2°C Hum:60%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages

**MEASUREMENT RESULT: "AT1208601101_fin"**

8/2/2012 10:58AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.217500	47.30	10.1	63	15.6	QP	N	GND
0.361500	41.00	10.1	59	17.7	QP	N	GND
0.510000	38.80	10.1	56	17.2	QP	N	GND
0.838500	44.30	10.1	56	11.7	QP	N	GND
0.906000	39.50	10.1	56	16.5	QP	N	GND
3.835000	40.40	10.4	56	15.6	QP	N	GND

MEASUREMENT RESULT: "AT1208601101_fin2"

8/2/2012 10:58AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	44.40	10.1	56	11.6	AV	N	GND
0.217500	45.90	10.1	53	7.0	AV	N	GND
0.289500	40.80	10.1	51	9.7	AV	N	GND
0.361500	37.70	10.1	49	11.0	AV	N	GND
0.433500	36.30	10.1	47	10.9	AV	N	GND
0.505500	35.00	10.1	46	11.0	AV	N	GND

3. RADIATED EMISSION TEST

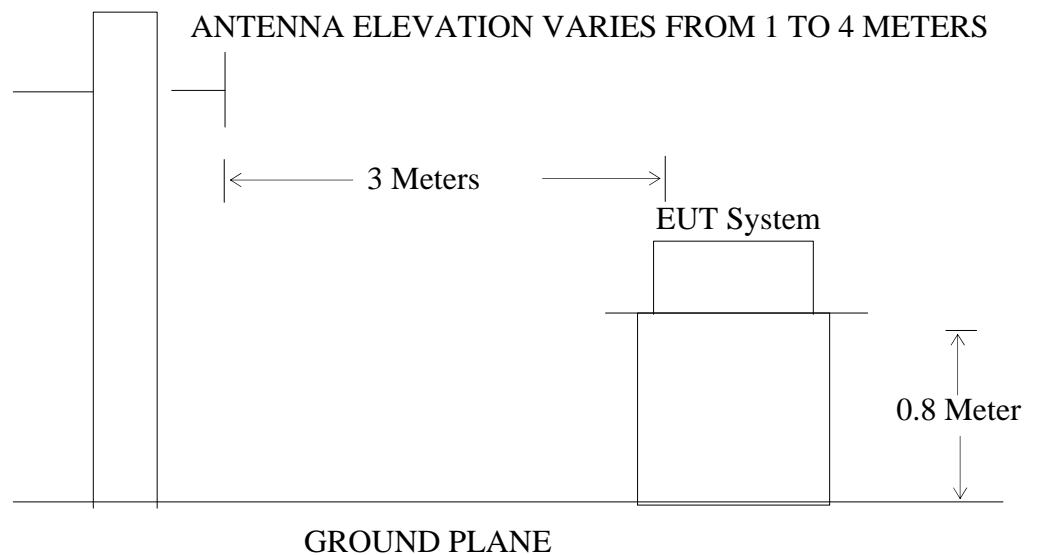
3.1. Block Diagram of Test

3.1.1. Block diagram of connection between the EUT and simulators



(EUT: Adapter)

3.1.2. Block diagram of test setup (In chamber)



(EUT: Adapter)

3.2. Measuring Standard

EN 55022: 2010

3.3. Radiated Emission Limits

3.3.1. EN 55022: 2010

Radiated Emission Limits

All emanations from an EN 55022 device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dB μ V/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Note: (1) The smaller limit shall apply at the combination point between two frequency bands.

- (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

3.4. EUT Configuration on Test

The EN 55022 regulations test method must be used to find the maximum emission during radiated emission measurement.

3.5. Operating Condition of EUT

3.5.1. Turn on the power.

3.5.2. Let the EUT work in test mode (Full Load) and measure it.

3.6. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the Receiver (ESCI) is set at 120kHz.

The EUT is tested in 9*6*6 Chamber.

The test results are listed in Section 3.8.

3.7. Test Equipment

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 12, 2011	1 Year
2.	Trilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	May 17, 2012	1 Year
3.	Pre-amplifier	Compliance Direction	PAP-0203	22008	May 19, 2012	1 Year
4.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A

3.8. Measuring Results

PASS.

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

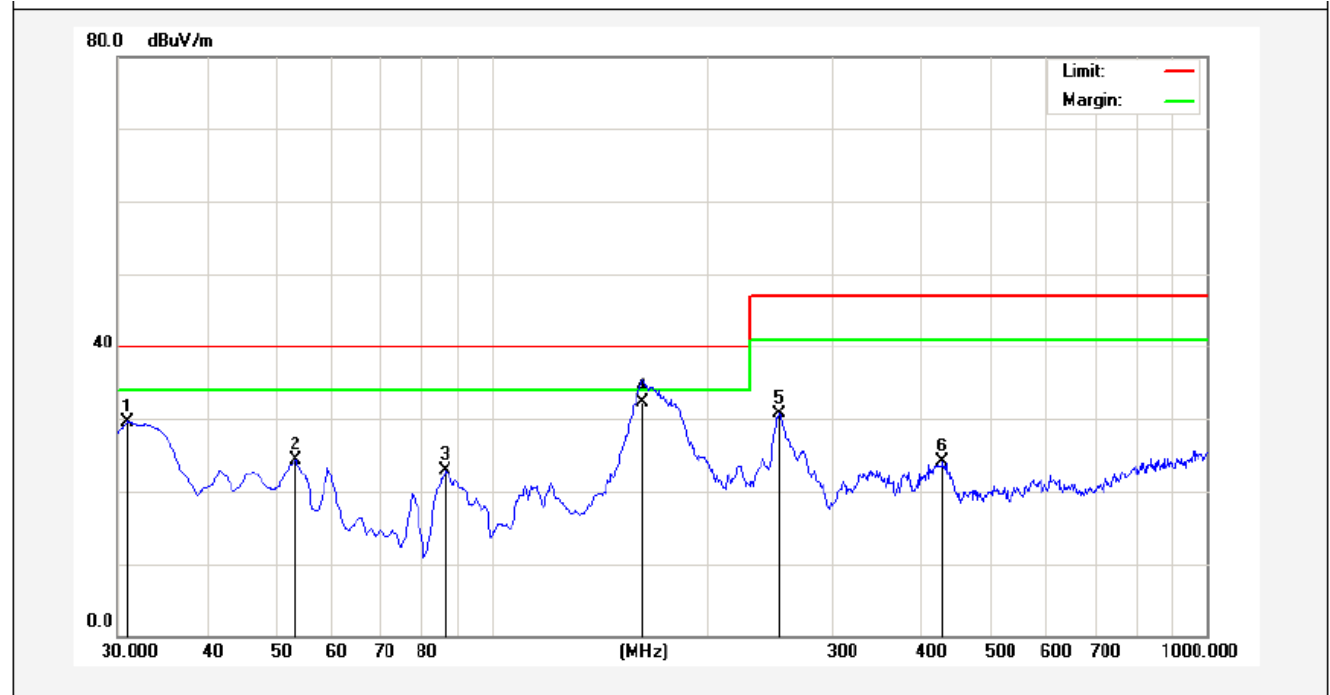
The test curves are shown in the following pages.


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Job No.:	AT1208601E	Polarization:	Vertical
Standard:	(RE)EN 55022_Class B_3m	Power Source:	AC 230V, 50Hz
Test item:	Radiation Test	Date:	2012/08/03
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	15:29:44
EUT:	Adapter	Test By:	Barak Ban
Model:	WDY-12010000	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	30.9700	55.90	-26.30	29.60	40.00	-10.40	peak			
2	53.2800	49.32	-25.05	24.27	40.00	-15.73	peak			
3	86.2600	50.37	-27.42	22.95	40.00	-17.05	peak			
4	162.8900	58.70	-26.38	32.32	40.00	-7.68	QP	100	0	
5	252.1300	53.15	-22.54	30.61	47.00	-16.39	peak			
6	426.7300	43.86	-19.83	24.03	47.00	-22.97	peak			

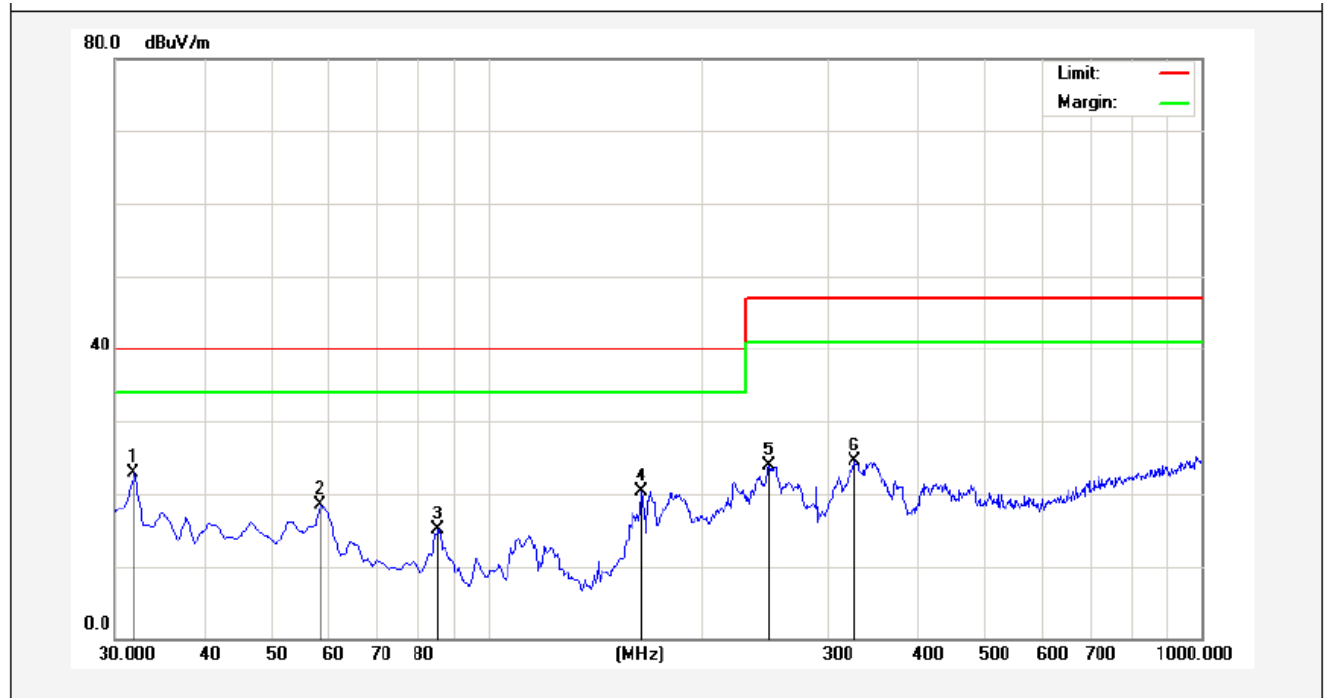

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Job No.:	AT1208601E	Polarization:	Horizontal
Standard:	(RE)EN 55022_Class B_3m	Power Source:	AC 230V, 50Hz
Test item:	Radiation Test	Date:	2012/08/03
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	15:32:18
EUT:	Adapter	Test By:	Barak Ban
Model:	WDY-12010000	Distance:	3m

Note: Full Load

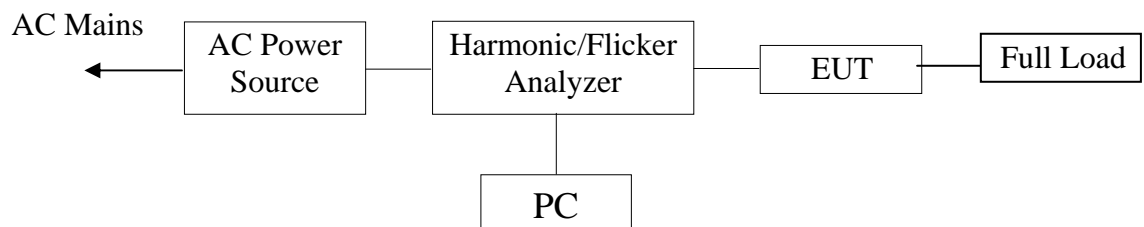


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	31.9400	49.24	-26.28	22.96	40.00	-17.04	peak			
2	58.1300	43.83	-25.32	18.51	40.00	-21.49	peak			
3	85.2900	44.75	-29.71	15.04	40.00	-24.96	peak			
4	163.8600	51.63	-31.34	20.29	40.00	-19.71	peak			
5	248.2500	50.83	-26.97	23.86	47.00	-23.14	peak			
6	327.7900	47.97	-23.39	24.58	47.00	-22.42	peak			

4. HARMONIC CURRENT EMISSION TEST

4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: Adapter)

4.2. Measuring Standard

EN 61000-3-2: 2006+A1: 2009+A2: 2009 Class A

4.3. Operation Condition of EUT

4.3.1. Setup the EUT as shown on Section 4.1.

4.3.2. Turn on the power of all equipments.

4.3.3. After that, let the EUT work in test mode (Full Load) measure it.

4.4. Test Equipment

The following test equipments are used during the harmonic current emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Programmable AC Power source	SOPH POWER	PAG-1050	630250	May 26, 2012	1 Year
2.	Harmonic and Flicker Analyzer	LAPLACE	AC2000A	272629	May 26, 2012	1 Year
3.	Harmonic and Flicker Test Software AC 2000A	LAPLACE	N/A	N/A	N/A	N/A

4.5. Measuring Results

PASS.

The test curves are shown in the following page.

Harmonic Current Test Result Summary (Run time)

Report Number : 201208661E

Tested Full Load : Aug. 06, 2012 14:20 for 150 Seconds.

Equipment Under Test : Adapter

Serial Number : AT1208601E Tested by : Barak Ban

Supply Voltage : 228.7 Vrms 320.2 Vpk Frequency : 50.00 Hz

Supply Pass : Harmonic Requirements Crest Limits.

Load Power : 138.80 to 139.10 W 250.1 VA Power Factor 0.556

Load Current : 1.1 Arms 3.7 Apk Crest Factor: 3.390

Measurement Standard : EN61000-4-7:2002

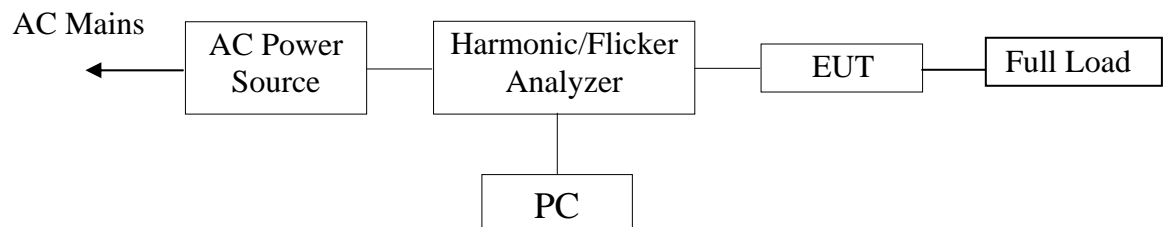
Limits Applied : EN61000-3-2 Class A Limits Apply.

Harmonic Number	Limit Current mA	Average (filtered) mA	% Limit	max. Value (Filtered)	% Limit	Assessment
Fundamental :		622.3				
2 :	1080.0	37.5	3.5	41.1	3.8	Pass
3 :	2300.0	573.2	24.9	573.8	24.9	Pass
4 :	430.0	32.6	7.6	35.7	8.3	Pass
5 :	1140.0	485.4	42.6	486.0	42.6	Pass
6 :	300.0	25.6	8.5	28.2	9.4	Pass
7 :	770.0	375.0	48.7	376.3	48.9	Pass
8 :	230.0	17.5	7.6	19.2	8.3	Pass
9 :	400.0	255.9	64.0	257.6	64.4	Pass
10 :	184.0	10.0	5.4	11.1	6.0	Pass
11 :	330.0	148.9	45.1	150.8	45.7	Pass
12 :	153.3	4.7	3.1	5.2	3.4	Pass
13 :	210.0	66.6	31.7	68.3	32.5	Pass
14 :	131.4	3.6	2.7	3.9	3.0	Pass
15 :	150.0	30.5	20.3	31.1	20.7	Pass
16 :	115.0	3.7	3.2	4.1	3.6	Pass
17 :	132.3	38.3	28.9	38.6	29.2	Pass
18 :	102.2	3.4	3.3	3.5	3.4	Pass
19 :	118.4	38.6	32.6	38.8	32.8	Pass
20 :	92.0	1.4	1.5	1.6	1.7	Pass
21 :	107.1	26.7	24.9	27.1	25.3	Pass
22 :	83.6	1.4	1.7	1.6	1.9	Pass
23 :	97.8	10.0	10.2	10.6	10.8	Pass
24 :	76.7	3.4	4.4	3.5	4.6	Pass
25 :	90.0	4.6	5.1	5.0	5.6	Pass
26 :	70.8	4.1	5.8	4.3	6.1	Pass
27 :	83.3	12.9	15.5	13.1	15.7	Pass
28 :	65.7	3.8	5.8	4.1	6.2	Pass
29 :	77.6	13.9	17.9	14.2	18.3	Pass
30 :	61.3	2.6	4.2	2.8	4.6	Pass
31 :	72.6	10.5	14.5	10.7	14.7	Pass
32 :	57.5	1.7	3.0	1.9	3.3	Pass
33 :	68.2	5.5	8.1	5.5	8.1	Pass
34 :	54.1	2.0	3.7	2.1	3.9	Pass
35 :	64.3	4.7	7.3	4.8	7.5	Pass
36 :	51.1	2.8	5.5	3.0	5.9	Pass
37 :	60.8	5.9	9.7	5.9	9.7	Pass
38 :	48.4	3.0	6.2	3.2	6.6	Pass
39 :	57.7	4.9	8.5	5.2	9.0	Pass
40 :	46.0	2.4	5.2	2.6	5.7	Pass
21 - 39 :	251.4	37.7	15.0	38.1	15.2	-

5. VOLTAGE FLUCTUATION AND FLICKER TEST

5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



(EUT: Adapter)

5.2. Measuring Standard

EN 61000-3-3: 2008

5.3. Operation Condition of EUT

5.3.1. Setup the EUT as shown on Section 5.1.

5.3.2. Turn on the power of all equipments.

5.3.3. After that, let the EUT work in test mode (Full Load) measure it.

5.4. Test Equipment

The following test equipments are used during the voltage fluctuations & flicker measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Programmable AC Power source	SOPH POWER	PAG-1050	630250	May 26, 2012	1 Year
2.	Harmonic and Flicker Analyzer	LAPLACE	AC2000A	272629	May 26, 2012	1 Year
3.	Harmonic and Flicker Test Software AC 2000A	LAPLACE	N/A	N/A	N/A	N/A

5.5. Measuring Results

PASS

The test dates are shown in the following page.

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

HA-PC Link Plus. Software v2.02. Firmware v2.81

Report Number : 201208661E

Tested On : Aug. 06, 2012 14:20 for 600 Seconds.

Equipment Under Test : Adapter

Job Number : AT1208601E

Tested by : Barak Ban

Supply Voltage : 228.6 to 228.7 Vrms 320.6 Vpk Frequency : 50.00 Hz

Load Current : 1.1 Arms 3.7 Apk Crest Factor: 3.371

Test Method: EN61000-3-3:2008

Voltage Variations :

Highest Level: -0.39%

Lowest Level: -0.76%

d(max): 0.37% PASS

Highest d(t) of 500ms: 0.00% PASS

Present d(t) over 3.33%: 0.00 Seconds

Longest d(t) over 3.33%: 0.00 Seconds

Highest Steady State: -0.58%

Lowest Steady State: -0.58%

Max d(c) Between Adjacent: 0.00% PASS

Max d(c) Between Any: 0.00%

Short Term Flicker Pst: 0.47 PASS

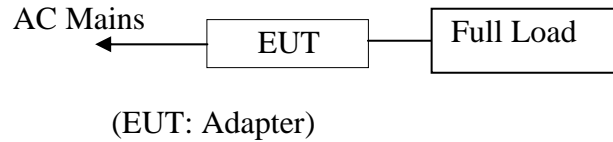
Flicker Results :

Pst Classifier	Plt Calculation		
Duration	Flicker	Interval	Pst
0.1%	4.66		
0.7%	1.70		
1.0%	1.06		
1.5%	0.48		
2.2%	0.16		
3%	0.08		
4%	0.06		
6%	0.05		
8%	0.05		
10%	0.05		
13%	0.05		
17%	0.05		
30%	0.02		
50%	0.00		
80%	0.00		

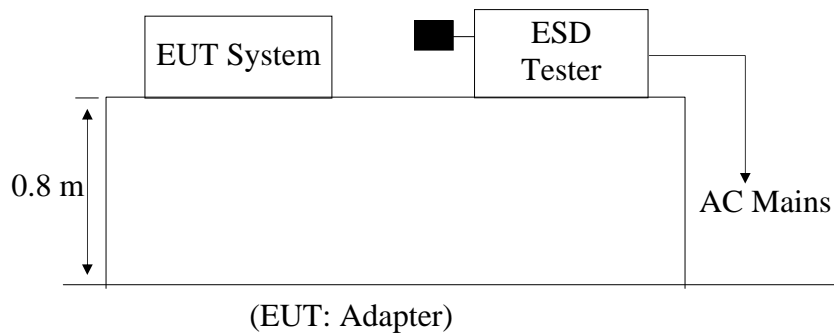
6. ELECTROSTATIC DISCHARGE IMMUNITY TEST

6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators



6.1.2. Block diagram of test setup



6.2. Measuring Standard

EN 55024: 2010

IEC 61000-4-2: 2008

Severity Level: 3 / Air Discharge: $\pm 8\text{kV}$ Level: 2 / Contact Discharge: $\pm 4\text{kV}$

6.3. Severity Levels and Performance Criterion

6.3.1. Severity level

Level	Test Voltage Contact Discharge (kV)	Test Voltage Air Discharge (kV)
1.	± 2	± 2
2.	± 4	± 4
3.	± 6	± 8
4.	± 8	± 15
X	Special	Special

6.3.2. Performance criterion: **B**

6.4. EUT Configuration

The configuration of EUT are listed in Section 2.4.

6.5. Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 2.5 except the

test set up replaced by Section 6.1.

6.6. Test Procedure

6.6.1. Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 100 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed

6.6.2. Contact Discharge:

All the procedure shall be same as Section 6.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

6.6.3. Indirect discharge for horizontal coupling plane

At least 50 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

6.6.4. Indirect discharge for vertical coupling plane

At least 50 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

6.7. Test Equipment

The following test equipments are used during the electrostatic discharge immunity measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Simulators	KIKUSUI	KES4021	LJ003477	May 25, 2012	1 Year

6.8. Measuring Results

PASS

Please refer to the following page.

Electrostatic Discharge Test Results

Anbotek Compliance Laboratory Limited

Applicant	: SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.	Test Date	: Aug. 07, 2012
EUT	: Adapter	Temperature	: 25°C
M/N	: WDY-12010000	Humidity	: 54%
Air discharge	: $\pm 8.0\text{kV}$	Criterion	: B
Contact discharge:	$\pm 4.0\text{kV}$	Test Engineer:	Barak Ban
Test Mode	: Full Load		
Location		Kind A-Air Discharge C-Contact Discharge	Result
Slot of the EUT	8 points	A	PASS
Others	8 points	A	PASS
HCP	6 points	C	PASS
VCP of front	4 points	C	PASS
VCP of rear	4 points	C	PASS
VCP of left	4 points	C	PASS
VCP of right	4 points	C	PASS
Note:			

7. RF FIELD STRENGTH SUSCEPTIBILITY TEST

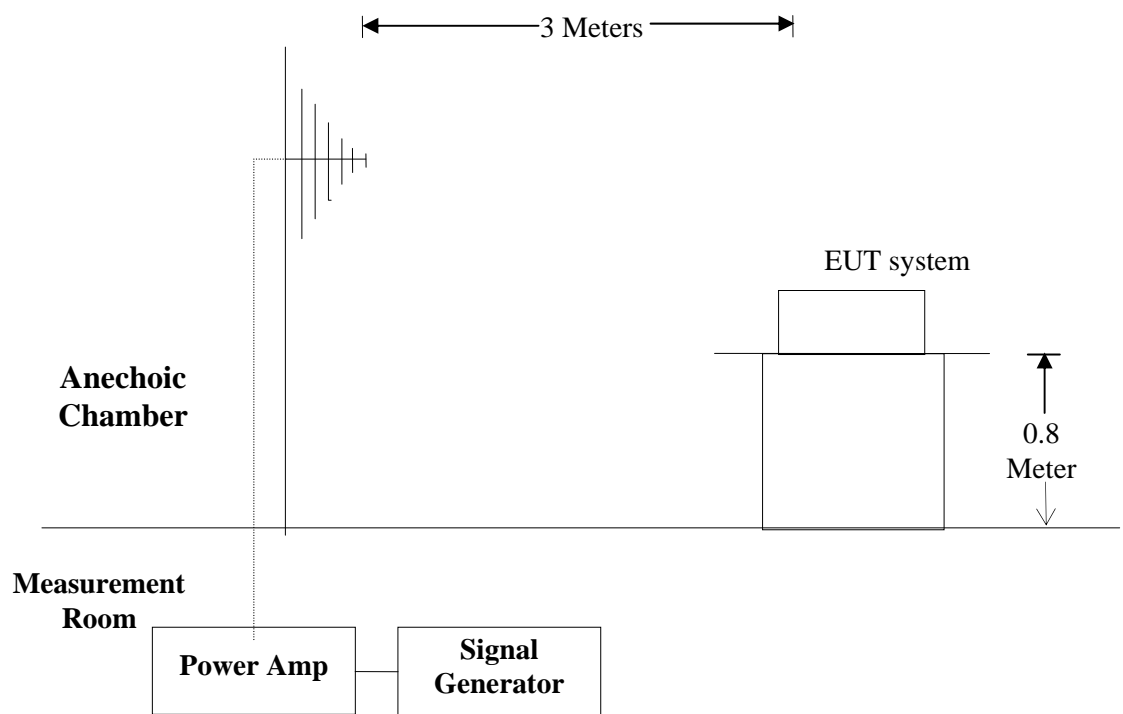
7.1. Block Diagram of Test

7.1.1. Block diagram of connection between the EUT and simulators



(EUT: Adapter)

7.1.2. Block diagram of RS test setup



(EUT: Adapter)

7.2. Measuring Standard

EN 55024: 2010

IEC 61000-4-3: 2010

Severity Level: 2, 3V / m

7.3. Severity Levels and Performance Criterion

7.3.1. Severity Levels

Level	Field Strength V/m
1.	1
2.	3
3.	10

X	Special
---	---------

7.3.2. Performance Criterion: A

7.4. EUT Configuration on Test

The configuration of the EUT is same as Section 2.4.

7.5. Operating Condition of EUT

Same as conducted emission measurement which is listed in Section 2.5. except the test setup replaced as Section 7.1.

7.6. Test Procedure

The EUT are placed on a table which is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a CCD camera is used to monitor its screen. All the scanning conditions are as following:

Condition of Test	Remark
-----	-----
1. Fielded Strength	3V/m (Severity Level 2)
2. Radiated Signal	Unmodulated
3. Scanning Frequency	80-1000MHz
4. Sweep time of radiated	0.0015 Decade/s
5. Dwell Time	1 Sec.

7.7. Test Equipment

The following test equipments are used during the RF Field Strength susceptibility measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	RF Power Meter. Dual Channel	BOONTON	4232A	10539	May 29, 2012	1 year
2.	50ohm Diode Power Sensor	BOONTON	51011EMC	34236/34238	May 29, 2012	1 year
3.	Broad-Band Horn Antenna	SCHWARZBECK	BBHA9120 L3F	332	May 29, 2012	1 year
4.	Power Amplifier	PRANA	AP32MT215	N/A	May 29, 2012	1 year
5.	Power Amplifier	MILMEGA	AS0102-55	N/A	May 29, 2012	1 year
6.	Signal Generator	AEROFLEX	2023B	N/A	May 29, 2012	1 year
7.	Field Strength Meter	HOLADAY	HI-6005	N/A	May 29, 2012	1 year
8.	RS232 Fiber Optic Modem	HOLADAY	HI-4413P	N/A	May 29, 2012	1 year
9.	Log.-Per. Antenna	SCHWARZBECK	VULP 9118E	N/A	May 29, 2012	1 year

7.8. Measuring Results

PASS.

Please refer to the following page.

RF Field Strength Susceptibility Test Results

Anbotek Compliance Laboratory Limited

Applicant : SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.		Test Date : Aug. 07, 2012	
EUT : Adapter		Temperature : 25°C	
M/N : WDY-12010000		Humidity : 54%	
Field Strength : 3 V/m		Criterion : A	
Test Mode : Full Load		Test Engineer : Barak Ban	
		Frequency Range: 80 MHz to 1000 MHz	
Modulation: <input type="checkbox"/> None <input type="checkbox"/> Pulse <input checked="" type="checkbox"/> AM 1KHz 80%			
	Frequency Rang 1: 80~ 1000MHz		Frequency Rang 2:
Steps	#	/	%
	Horizontal	Vertical	
Front	PASS	PASS	
Right	PASS	PASS	
Rear	PASS	PASS	
Left	PASS	PASS	
Test Equipment :			
Note: Tested by EMTEK.			

8. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

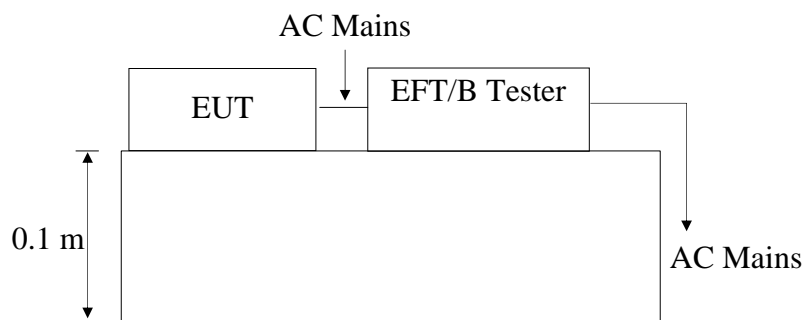
8.1. Block Diagram of Test Setup

8.1.1. Block diagram of connection between the EUT and simulators



(EUT: Adapter)

8.1.2. EFT Test Setup



(EUT: Adapter)

8.2. Measuring Standard

EN 55024: 2010

IEC 61000-4-4: 2011

Severity Level, Level 2: 1kV

8.3. Severity Levels and Performance Criterion

8.3.1. Severity level

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On Adapter Lines	On I/O (Input/Output) Signal data and control lines
1.	0.5 kV	0.25 kV
2.	1 kV	0.5 kV
3.	2 kV	1 kV
4.	4 kV	2 kV
X	Special	Special

8.3.2. Performance criterion: **B**

8.4. EUT Configuration

The configuration of EUT are listed in Section 2.4.

8.5. Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 2.5, except the test set up replaced by Section 8.1.

8.6. Test Procedure

The EUT is put on the table which is 0.1 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

8.6.1. For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

8.6.2. For signal lines and control lines ports:

No I/O ports. It's unnecessary to test.

8.6.3. For DC output line ports:

It's unnecessary to test.

8.7. Test Equipment

The following test equipments are used during the electrical fast transient/burst immunity measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EFT Generator	EMPEK	EFT-4040B	0430928 N	May 19, 2012	1 Year

8.8. Measuring Results

PASS.

Please refer to the following page.

Electrical Fast Transient/Burst Test Results

Anbotek Compliance Laboratory Limited

Applicant : SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.

EUT : Adapter

M/N : WDY-12010000

Power Supply: AC 230V, 50Hz

criterion: **B**

Ambient Condition : 24°C

55% RH

Operation Mode: Full Load

Test Data: Aug. 07, 2012

Inject Line : AC Mains

Inject Method: Direct

Inject Time(s): 120

Line	Test Voltage	Result(+)	Result(-)
L	1kV	PASS	PASS
N	1kV	PASS	PASS
PE	1kV	PASS	PASS
L 、 N	1kV	PASS	PASS
L 、 PE	1kV	PASS	PASS
N 、 PE	1kV	PASS	PASS
L 、 N 、 PE	1kV	PASS	PASS
Signal Line			
DC Line			

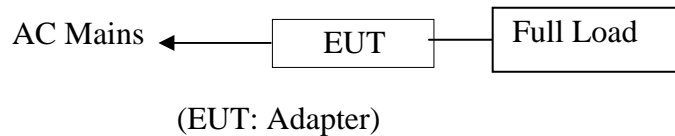
Note :

Remark:

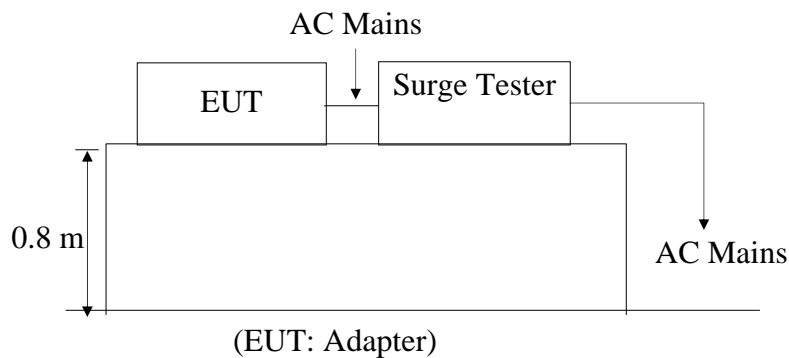
9. SURGE IMMUNITY TEST

9.1. Block Diagram of Test Setup

9.1.1. Block diagram of connection between the EUT and simulators



9.1.2. Surge Test Setup



9.2. Measuring Standard

EN 55024: 2010

IEC 61000-4-5: 2005

Severity Level: Level 2, Line to Line: 1.0kV; Level 3, Line to Earth: 2.0kV

9.3. Severity Levels and Performance Criterion

9.3.1. Severity level

Severity Level	Open-Circuit Test Voltage kV
1	0.5
2	1.0
3	2.0
4	4.0
*	Special

9.3.2. Performance criterion: **B**

9.4. EUT Configuration

The configuration of EUT are listed in Section 2.4.

9.5. Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 2.5, except the test set up replaced by Section 9.1.1.

9.6. Test Procedure

- 1) Set up the EUT and test generator as shown on Section 9.1.2.
- 2) For line to line coupling mode, provide a 1.0 kV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
- 3) For line to earth coupling mode, provide a 2.0 kV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
- 4) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 5) Different phase angles are done individually.
- 6) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

9.7. Test Equipment

The following test equipments are used during the surge immunity measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	6kV Surge Generator	EMPEK	LSG-5060G	06010017 N	Jul. 01, 2012	1 Year

9.8. Measuring Results

PASS.

Please refer to the following page.

Surge Immunity Test Results

Anbotek Compliance Laboratory Limited

Applicant : SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD. EUT : Adapter M/N : WDY-12010000 Power Supply: AC 230V, 50Hz Test Engineer: Barak Ban				Test Date: Aug. 07, 2012 Temperature: 24°C Humidity: 55% Test Mode: Full Load Criterion: B	
Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (kV)	Result
L-N	+	0°	5	1.0	PASS
	+	90°	5	1.0	PASS
	+	180°	5	1.0	PASS
	+	270°	5	1.0	PASS
	-	0°	5	1.0	PASS
	-	90°	5	1.0	PASS
	-	180°	5	1.0	PASS
	-	270°	5	1.0	PASS
L-PE	+	0°	5	2.0	PASS
	+	90°	5	2.0	PASS
	+	180°	5	2.0	PASS
	+	270°	5	2.0	PASS
	-	0°	5	2.0	PASS
	-	90°	5	2.0	PASS
	-	180°	5	2.0	PASS
	-	270°	5	2.0	PASS
N-PE	+	0°	5	2.0	PASS
	+	90°	5	2.0	PASS
	+	180°	5	2.0	PASS
	+	270°	5	2.0	PASS
	-	0°	5	2.0	PASS
	-	90°	5	2.0	PASS
	-	180°	5	2.0	PASS
	-	270°	5	2.0	PASS
Remark:					

10. INJECTED CURRENTS SUSCEPTIBILITY TEST

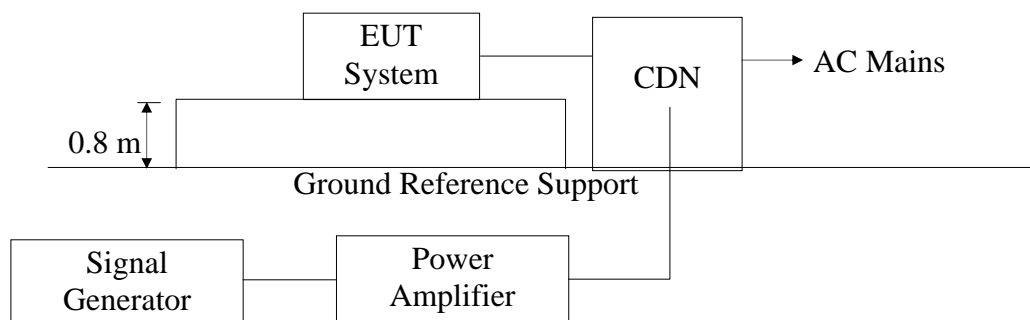
10.1. Block Diagram of Test Setup

10.1.1. Block diagram of connection between the EUT and simulators



(EUT: Adapter)

10.1.2. Block Diagram of Test Setup



(EUT: Adapter)

10.2. Measuring Standard

EN 55024: 2010

IEC 61000-4-6: 2008, Severity Level: 3V (rms), (0.15MHz ~ 80MHz)

10.3. Severity Levels and Performance Criterion

10.3.1. Severity level

Level	Field Strength V(rms)
1.	1
2.	3
3.	10
X	Special

10.3.2. Performance criterion: A

10.4. EUT Configuration

The configuration of EUT are listed in Section 2.4.

10.5. Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 2.5, except the test set up replaced by Section 10.1.1.

10.6. Test Procedure

10.6.1. For AC Mains

- 1) Set up the EUT, CDN and test generators as shown on Section 10.1.2.
- 2) Let the EUT work in test mode and measure it.
- 3) The EUT are placed on an insulating support 0.8m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- 4) The disturbance signal described below is injected to EUT through CDN.
- 5) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 6) The frequency range is swept from 150KHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.
- 7) The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 8) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

10.6.2. For signal lines and control lines ports:

No I/O ports. It's unnecessary to test.

10.6.3. For DC output line ports:

It's unnecessary to test.

10.7. Test Equipment

The following test equipments are used during the Injected currents susceptibility measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Conducted Immunity System	FRANKONIA	CIT-10	PI126530	May 19, 2012	1 Year
2.	CDN	FRANKONIA	CDN L-801 M2 / M3	TI126545	May 19, 2012	1 Year
3.	Electromagnetic Injection Clamp:	FRANKONIA	EM101	ST126115	May 19, 2012	1 Year
4.	Fixed Coaxial Attenuators	FRANKONIA	59-6-33	AB1261DD	May 19, 2012	1 Year

10.8. Measuring Results

PASS.

Please refer to the following page.

Injected Currents Susceptibility Test Results

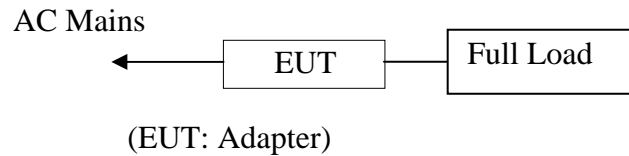
Anbotek Compliance Laboratory Limited

Applicant: SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD. EUT : Adapter M/N : WDY-12010000 Power Supply : AC 230V, 50Hz			Test Date : Aug. 07, 2012 Temperature : 24°C Humidity : 53% Test Engineer : Barak Ban	
Test Mode : Full Load				
Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Criterion	Result
0.15 ~ 80	AC Mains	3V	A	PASS
Test Mode :				
Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Criterion	Result
Remark :		Note:		

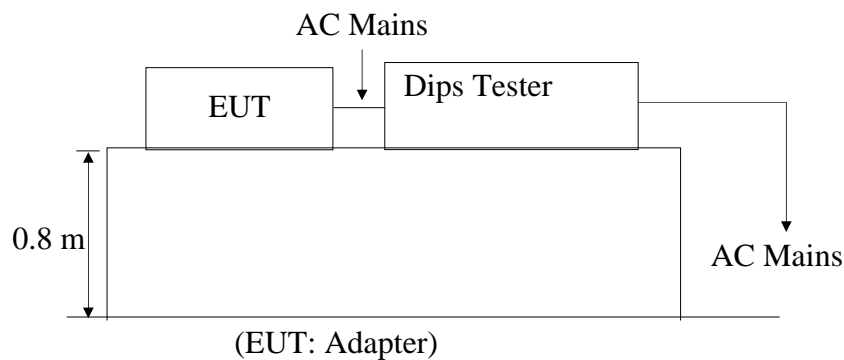
11. VOLTAGE DIPS AND INTERRUPTIONS TEST

11.1. Block Diagram of Test Setup

11.1.1. Block diagram of connection between the EUT and simulators



11.1.2. Dips Test Setup



11.2. Measuring Standard

EN 55024: 2010

IEC 61000-4-11: 2004

11.3. Severity Levels and Performance Criterion

11.3.1. Severity level

Test Level $\% U_T$	Voltage dip and short interruptions $\% U_T$	Duration (in period)
0	100	0.5
		1
40	60	5
		10
70	30	25
		50
0	100	*

11.3.2. Performance criterion: **B&C**

11.4. EUT Configuration

The configuration of EUT are listed in Section 2.4.

11.5. Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 2.5, except the test set up replaced by Section 11.1.1.

11.6. Test Procedure

- 1) Set up the EUT and test generator as shown on Section 11.1.2.
- 2) The interruptions is introduced at selected phase angles with specified duration.
- 3) Record any degradation of performance.

11.7. Test Equipment

The following test equipments are used during the voltage dips and interruptions measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	CYCLE SAG Simulator	PRIMA	DRP61011A	PR10106 201	May 19, 2012	1 Year

11.8. Measuring Results

PASS.

Please refer to the following page.

Voltage Dips and Interruptions Test Results

Anbotek Compliance Laboratory Limited

Applicant : SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.	Test Date : Aug. 07, 2012
EUT : Adapter	Temperature : 24°C
M/N : WDY-12010000	Humidity : 55%
Power Supply : AC 230V, 50Hz	Test Engineer : Barak Ban

Test Mode: Full Load

Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Criterion <input type="checkbox"/> A <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> C <input type="checkbox"/> D	Result P=PASS F=Fail
0	100	0.5P	B	PASS
40	60	5P	B	PASS
70	30	25P	C	PASS
0	100	250P	C	PASS

Test Mode :

Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Criterion <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	Result P=PASS F=Fail

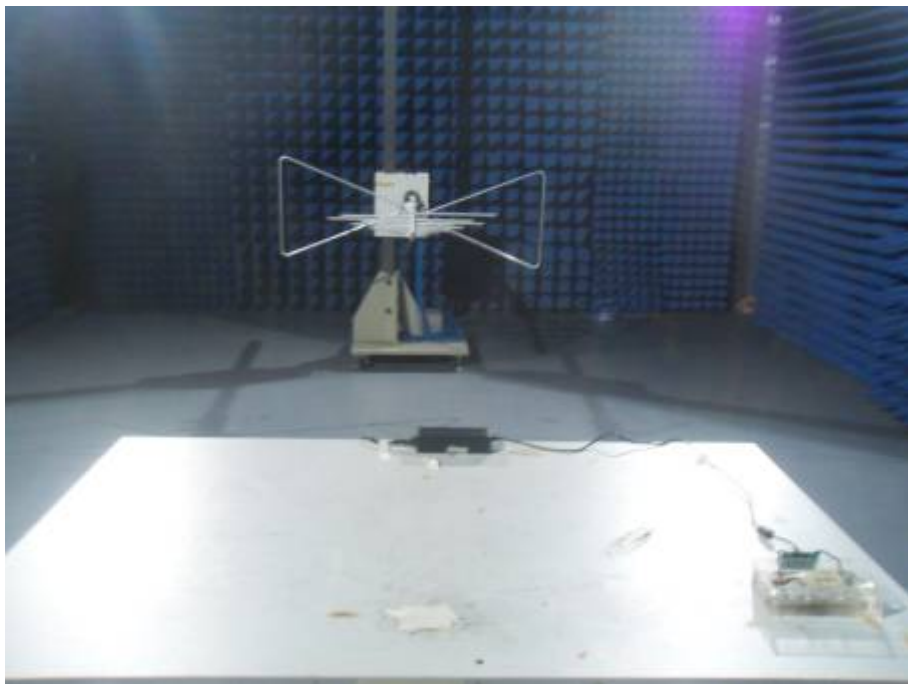
Remark:

12. PHOTOGRAPHS

12.1. Photo of Power Line Conducted Emission Test



12.2. Photo of Radiated Emission Test



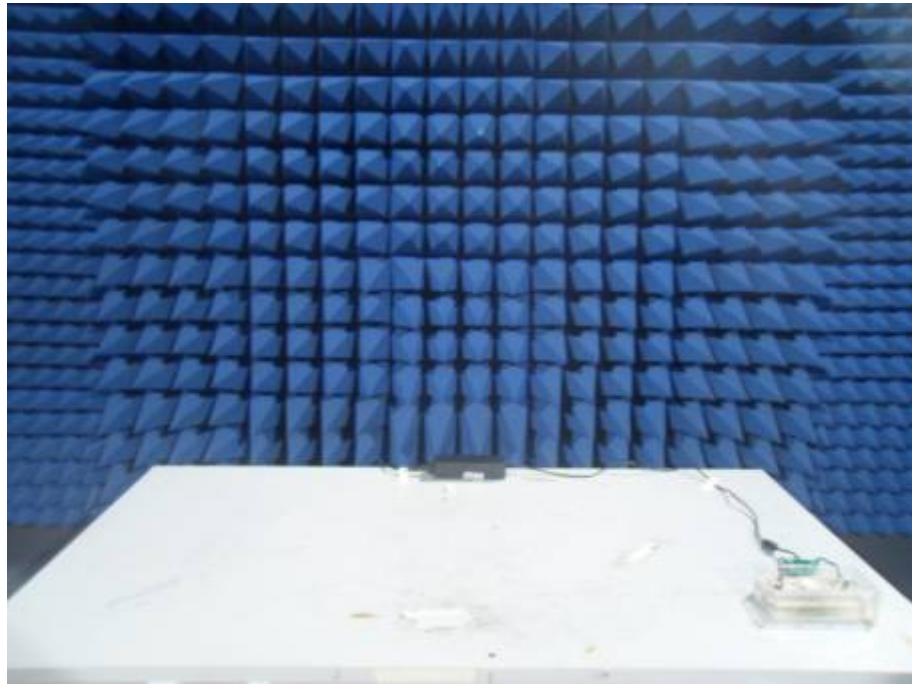
12.3. Photo of Flicker/Harmonic Test



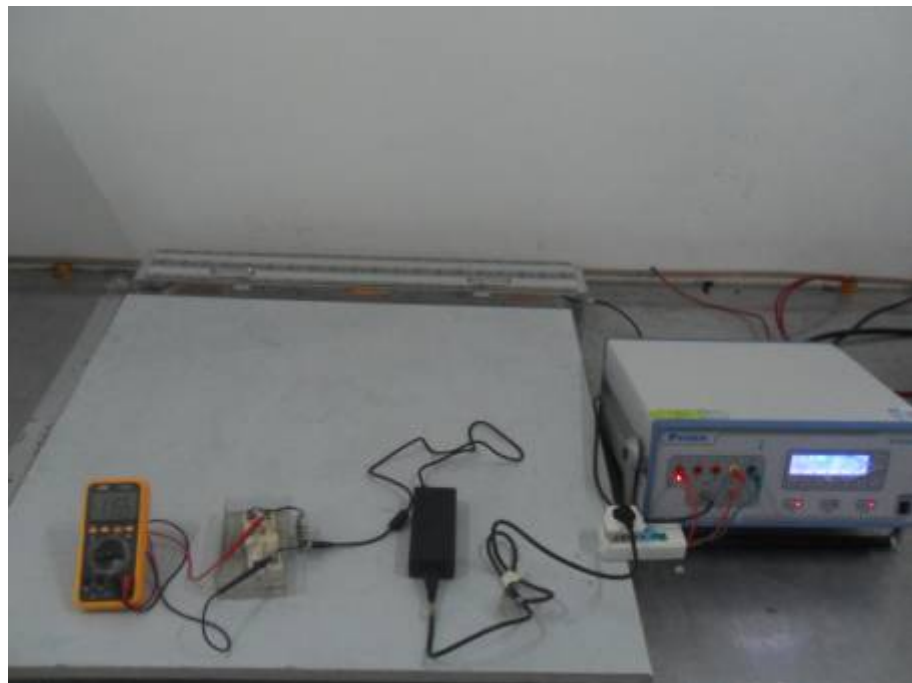
12.4. Photo of Electrostatic Discharge Test



12.5. Photo of RF Field Strength susceptibility Test



12.6. Photo of Electrical Fast Transient/Burst Immunity Test



12.7. Photo of Surge Immunity Test



12.8. Photo of Injected currents susceptibility test



APPENDIX I

(Photos of EUT)

Figure 1
The EUT- Front View



Figure 2
The EUT- Back View



Figure 3
The EUT- Inside View



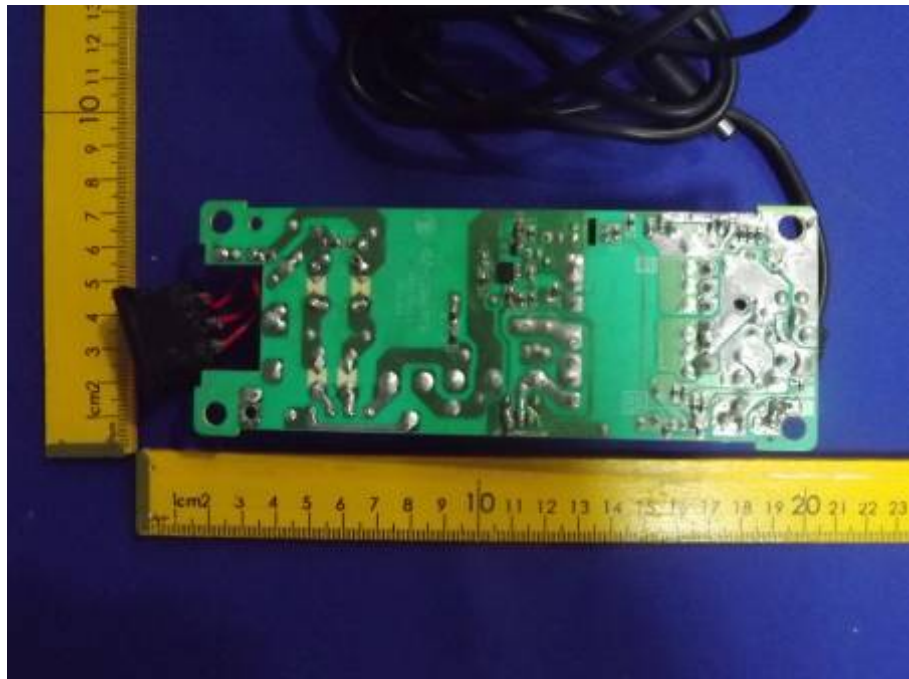
Figure 4
The EUT- Inside View



Figure 5
PCB of the EUT- Front View



Figure 6
PCB of the EUT- Back View



APPENDIX II (CE Label)

CE Label

1. The CE conformity marking must consist of the initials 'CE' taking the following form:
If the CE marking is reduced or enlarged, the proportions given in the above graduated drawing must be respected.
2. The CE marking must have a height of at least 5 mm except where this is not possible on account of the nature of the apparatus.
3. The CE marking must be affixed to the product or to its data plate. Additionally it must be affixed to the packaging, if any, and to the accompanying documents.
4. The CE marking must be affixed visibly, legibly and indelibly.
It must have the same height as the initials 'CE'

Proposed Label Location on EUT

The EUT- Back View /proposed CE Mark Location





中国合格评定国家认可委员会 实验室认可证书

(注册号: CNAS L3503)

兹证明:

深圳市安博技术服务有限公司

广东省深圳市南山区港湾大道东内环路南能源工业小区一栋一楼, 518054

符合 ISO/IEC 17025: 2005《检测和校准实验室能力的通用要求》
(CNAS-CL01《检测和校准实验室能力认可准则》)的要求, 具备承担
本证书附件所列检测服务的能力, 予以认可。

获认可的能力范围见标有相同认可注册号的证书附件, 证书附件是
本证书组成部分。

签发日期: 2011-06-24

有效期至: 2014-06-23

初次认可: 2008-05-19

更新日期: 2011-06-24



中国合格评定国家认可委员会授权人

中国合格评定国家认可委员会 (CNAS) 经国家认证认可监督管理委员会 (CNCA) 授权, 负责实施合格评定国家认可制度。CNAS 是国际实验室认可合作组织 (ILAC) 和亚太实验室认可合作组织 (APLAC) 的多边互认协议成员。



China National Accreditation Service for Conformity Assessment

LABORATORY ACCREDITATION CERTIFICATE

(Registration No. CNAS L3503)

Shenzhen Anbotek Compliance Laboratory Limited

1/F., Building 1, SEC Industrial Park, South of Neihuan Road &
East of Gangwan Road, Nanshan District, Shenzhen, Guangdong, China

is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence of testing.

The scope of accreditation is detailed in the attached appendices bearing the same registration number as above. The appendices form an integral part of this certificate.

Date of Issue: 2011-06-24

Date of Expiry: 2014-06-23

Date of Initial Accreditation: 2008-05-19

Date of Update: 2011-06-24

Signed on behalf of China National Accreditation Service
for Conformity Assessment

China National Accreditation Service for Conformity Assessment (CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is the signatory to International Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (ILAC MRA) and Asia Pacific Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (APLAC MRA).

FEDERAL COMMUNICATIONS COMMISSION

**Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046**

August 20, 2010

Registration Number: 752021

Anbotek Compliance Laboratory Limited
1/F, 1 /Build, SEC Industrial Park,,
No. 4 Qianhai Road, Nanshan District,,
Shenzhen, 518054
China

Attention: Daniel zhu

Re: Measurement facility located at Nanshan District, Shenzhen, China
Anechoic chamber (3 meter)
Date of Listing: August 20, 2010

Dear Sir or Madam:

Your request for registration of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC rules. The information has, therefore, been placed on file and the name of your organization added to the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years. Please also note that this registration does not recognize the measurement facility to perform testing for products authorized under the Declaration of Conformity (DoC) process. In order to test products subject to DoC authorization process, a measurement facility must be accredited and recognized by the FCC.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website www.fcc.gov under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,

Katie Hawkins
Electronics Engineer

August 30, 2010

OUR FILE: 46405-8058

Submission No: 141927

Anbotek Compliance Laboratory Limited

1/F, 1 /Building, SEC Industrial Park

No. 4 Qianhai Road, Nanshan District, 518054

Shenzhen, China

Attention: Daniel Zhu

Dear Sir/Madame:

The Bureau has received your application for the renewal of a 3m alternative test site. Be advised that the information received was satisfactory to Industry Canada. The following number(s) is now associated to the site(s) for which registration / renewal was sought (**8058A-1**). Please reference the appropriate site number in the body of test reports containing measurements performed on the site. In addition, please keep for your records the following information;

- The company address code associated to the site(s) located at the above address is: **8058A**

Furthermore, to obtain or renew a unique site number, the applicant shall demonstrate that the site has been accredited to ANSI C63.4-2003 or later. A scope of accreditation indicating the accreditation by a recognized accreditation body to ANSI C63.4-2003 or later shall be accepted. Please indicate in a letter the previous assigned site number if applicable and the type of site (example: 3 metre OATS or 3 metre chamber). If the test facility is not accredited to ANSI C63.4-2003 or later, the test facility shall submit test data demonstrating full compliance with the ANSI standard. The Bureau will evaluate the filing to determine if recognition shall be granted.

The frequency for re-validation of the test site and the information that is required to be filed or retained by the testing party shall comply with the requirements established by the accrediting organization. However, in all cases, test site re-validation shall occur on an interval not to exceed two years. There is no fee or form associated with an OATS filing. OATS submissions are encouraged to be submitted electronically to the Bureau using the following URL;

http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/en/h_tt00052e.html.

If you have any questions, you may contact the Bureau by e-mail at certification.bureau@ic.gc.ca Please reference our file and submission number above for all correspondence.

Yours sincerely,



Dalwinder Gill
For: Wireless Laboratory Manager
Certification and Engineering Bureau
3701 Carling Ave., Building 94
P.O. Box 11490, Station "H"
Ottawa, Ontario K2H 8S2
Email: dalwinder.gill@ic.gc.ca
Tel. No. (613) 998-8363
Fax. No. (613) 990-4752

ATTESTATION



Product Service

This is to confirm that

Anbotek Compliance Laboratory Limited

1/F, 1/Building, SEC Industrial Park, Qianhai Road, Nanshan District, Shenzhen 518054, Guangdong, P.R.China
has been accepted by

**TÜV SÜD China Shenzhen Branch – 6th Floor, H Hall,
Century Craftwork Culture Square, No. 4001, Fuqiang
Road, Futian District, 518048, Shenzhen, P. R. China**

for cooperating in on-site witness projects according to the standards
in attachment

This document states that the above named company is included in
the TÜV SÜD PRODUCT SERVICE GROUP (TÜV SÜD) Listing of
Recognized Laboratories and is qualified in compliance with the
TÜV SÜD External Test Laboratory (ETL) program for the mutually
agreed product categories and/ or standards.

As far as the testing facilities meet the relevant requirements of this
program and the tests of the projects are conducted under the
supervision and witness of the engineer(s) of TÜV SÜD China
Shenzhen Branch, the test results can be used as a basis for a
TÜV SÜD certification.

Attestation No.: SCN1027
Expiration Date: 2012-06-07

TÜV SÜD China – South Region

Robert Ostendorf
General Manager

Date of Issuance: 2011-06-07



*TUV SUD makes no representations or warranties, express or implied, regarding any aspect of this Laboratory's business or services or that this Laboratory's services will achieve any specific results in any TUV SUD investigation. TUV SUD does not assume or undertake to discharge any liability of this Laboratory or any other party. TUV SUD assumes no liability which may result directly or indirectly from assessment or Certification of this Laboratory, the conduct or a failure to conduct inspections, incorrect Certification, nonconformity or failure to discover nonconformity with Program Requirements, cancellation of this Attestation or withdrawal of this Laboratory's inclusion from any TUV SUD PRODUCT SERVICE GROUP Listing or Directory prior to the expiration date of this Attestation. This Laboratory bears sole responsibility for its provision of services.

**California Appliance Efficiency Program
2012 Consumer Electronics Test Laboratory Application**

This is a PDF fillable form. You may complete it on line or print it out and complete it off line. After it has been signed, you may scan and return it as an e-mail attachment to appliances@energy.state.ca.us, or return it via mail to:

Appliance Efficiency Program
2012 Consumer Electronics Lab App: <Company Name>
California Energy Commission
1516 Ninth Street, MS-25
Sacramento, CA 95814-5512

PLEASE ALSO NOTE THAT:

- Applications that have been re-typed in your own format WILL NOT be accepted.
- It is not necessary to submit both an email and a mailed application
- This application must specify the physical address of the location that will be conducting testing.
- Please allow at least four weeks before contacting us regarding your application.

Contact Person Name Daniel Zhu	Phone 1 86-755-26014771
Company / Laboratory Name Anbotek Compliance Laboratory Ltd.	Phone 2 86-755-26066365
Address 1/F,1/build, SEC Industrial Park, Qianhai Road,	Fax 86-755-26014772
(Address) NanShan District,Shenzhen, China 518054	E-mail daniel.zhu@anbotek.com
(Address)	Company Website (URL) www.anbotek.com

Appliance Type(s):	<input checked="" type="checkbox"/> Compact Audio Device <input checked="" type="checkbox"/> DVD Player/Recorder <input checked="" type="checkbox"/> Television <input checked="" type="checkbox"/> External Power Supply <input checked="" type="checkbox"/> Small Battery Charger
---------------------------	--

Test method(s):	<input checked="" type="checkbox"/> International Electrotechnical Commission (IEC) 62087:2002(E) <input checked="" type="checkbox"/> Electrotechnical Commission (IEC) 62301:2005 and 62087:2008(E), as directed in Section 1604(v) of the Title 20 Appliance Efficiency Regulations <input checked="" type="checkbox"/> US EPA "Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies", August 11, 2004 <input checked="" type="checkbox"/> 10 CFR 430.23(aa) - Appendix Y to Subpart B of Part 430, Uniform Test Method for Measuring the Energy Consumption of Battery Chargers
------------------------	--

Anbotek Compliance Laboratory Ltd. _____ states:
Name of Laboratory _____

[Initial all appropriate paragraphs]

- Y It has conducted tests using the applicable test method specified above within the previous 12 months;
- Y It agrees to and does interpret and apply the applicable test method set forth in Section 1604 precisely as written;
- Y It has, and keeps properly calibrated and maintained, all equipment, material, and facilities necessary to apply the applicable test method precisely as written;
- Y It agrees to and does maintain copies of all test reports, and provides any such report to the Executive Director on request, for all basic models that are still in commercial production;
- Y It agrees to and does allow the Executive Director to witness any test of such an appliance on request, up to once per calendar year for each basic model; and
- Y It agrees to, and will follow, all applicable provisions of the California Energy Commission's Appliance Regulations (Section 1601 – 1608 of Title 20 of the California Code of Regulations), in carrying out all testing pursuant to this application.

I declare under penalty of perjury of the laws of the State of California, that:

All the information in this statement is true, complete, accurate, and in compliance with all applicable provisions of Sections 1601 – 1608 of Title 20 of the California Code of Regulations; and

I am authorized to make this declaration, and to file this application, on behalf of

Anbotek Compliance Laboratory Ltd. _____
Name of Laboratory _____


Signature:  Date: NOV 21 2011

Typed Name and Title: Daniel Zhu, General Manager

SPACE BELOW THIS LINE FOR CALIFORNIA ENERGY COMMISSION USE ONLY

The laboratory identified above is hereby approved for testing in compliance with the requirements of the *Appliance Efficiency Regulations* from the date shown until December 31, 2012.

12/6/11
Date


PETER STRAIT, Program Lead
Appliance Efficiency Compliance Program
for the Executive Director



CERTIFICATE OF PARTICIPATION

Issued by

UL CCIC on behalf of
UL

ANBOTEK COMPLIANCE LABORATORY LTD
1F 1 BLDG, SEC INDUSTRIAL PARK, QIANHAI RD NANSHAN DIST,
SHENZHEN GUANGDONG 518054, CHINA

has been assessed and found eligible to participate in

UL

WITNESS TEST DATA PROGRAM

Kenny Poon

Operations Manager
UL CCIC

Subscriber Number: 100224-608

Issued: March 13, 2012

Expire: March 12, 2013

Certificate of Qualification

for testing according to

FCC / IC / R&TTE (CE) Regulations

Issued to:

Company Name: Anbotek Compliance Laboratory Limited
Address: 1/F, 1 /Build, SEC Industrial Park
No. 4 Qianhai Road, Nanshan District
City: Shenzhen, 518054
Country: China

Teleconformity of The Netherlands, who performs assessments for Notified Body for Europe (0700), CAB for Canada IC, TCB for FCC approvals, has assessed many applications from Anbotek Compliance Laboratory Limited for Compliance with the USA FCC, CANADA IC, EUROPE R&TTE CE Rules and Regulations.

We are impressed with the quality and knowledge shown, therefore we judge that Anbotek Compliance Laboratory Limited is competent to perform and Document the relevant Tests. Particularly, for each filing Teleconformity was confident that the Equipment meets the relevant Requirements before the Authorization or Opinion was issued.

Anbotek Compliance Laboratory Limited is Qualified by the FCC as 2.948 Listed Test Firm (Site Registration Number: 752021) and by Industry Canada (O.A.T.S. Registration Number: 8058A-1) for a scope of testing covered and relevant to the application for certification sought.



Expiry date: 2012-08-30

2011-01-10

Agency attestation: **TELECONFORMITY**
Mr. M. Koop
Position: General Manger

A stylized blue ink signature of Mr. M. Koop.