

Verification Of Conformity
On Behalf of
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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Report Number : 201208661F
Date of Test : Aug. 01~15, 2012
Date of Report : Aug. 16, 2012

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TEST REPORT VERIFICATION

Applicant : SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.
 Manufacturer : SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.
 EUT : Adapter
 Model No. : WDY-XXXXXXXX
 (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:

FCC Rules and Regulations Part 15 Subpart B 2011 & FCC / ANSI C63.4-2009

The device described above is tested by 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 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 Anbotek Compliance Laboratory Limited

Date of Test : Aug. 01~15, 2012

Prepared by : Barak Ban
(Engineer/ Barak Ban)

Reviewer : Amy Ding
(Project Manager/ Amy Ding)

Approved & Authorized Signer : Tom. Chen
(Manager/ Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	: Adapter
Model Number	: SMP007XXXXYYY (SMP: SiMytek Power 007stand for 007 series model; XXX=042-240 stand for the output voltage; YYY=022-100 stand for output current.) (Note: All samples are the same except the model number & Shape of appliances, so we prepare “WDY-12010000” for EMC test only.)
Test Power Supply	: AC 120V, 60Hz
Applicant	: SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.
Address	: 5/F, C Building, Jinshan Industrial Park, No. 52 Road 2, Dalangshan, Wanfeng, Shajing Town, Baoan District, Shenzhen, China
Manufacturer	: SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.
Address	: 5/F, C Building, Jinshan Industrial Park, No. 52 Road 2, Dalangshan, Wanfeng, Shajing Town, Baoan District, Shenzhen, China
Date of Sample received	: 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:

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.

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

Test Location

All Emissions tests were performed

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

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 MEASUREMENT

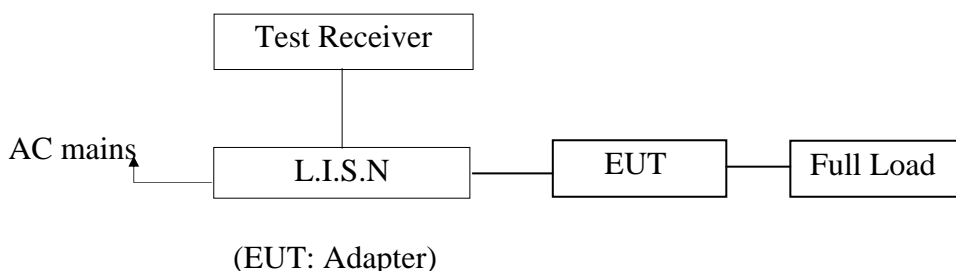
2.1. Test Equipment

The following test equipments are used during the power line conducted 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

2.2. Block Diagram of Test Setup

2.2.1. Block diagram of connection between the EUT and simulators



2.3. Power Line Conducted Emission Measurement Limits (FCC Part 15

Class B)

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

2.4. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a

manner which tends to maximize its emission characteristics in a normal application.

EUT : Adapter
Model Number : WDY-12010000
Applicant : SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.

2.5. Operating Condition of EUT

- 2.5.1. Setup the EUT and simulator as shown as Section 2.2.
- 2.5.2. Turn on the power of all equipment.
- 2.5.3. Let the EUT work in test mode (Full Load) and measure it.

2.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2009 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test result are reported on Section 2.7.

2.7. Power Line Conducted Emission Measurement Results

PASS.

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

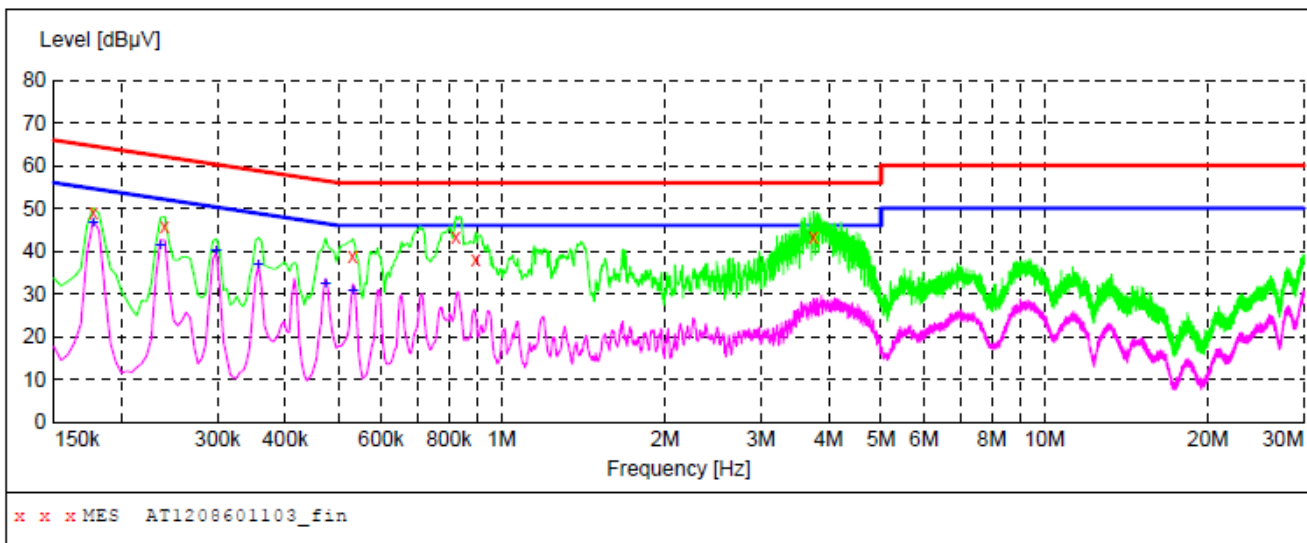
The test curves are shown in the following pages.

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 120V, 60Hz
 Comment: L
 Tem:25°C Hum:50%

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

Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "AT1208601103_fin"

8/2/2012 11:05AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.177000	49.10	10.1	65	15.5	QP	L1	GND
0.240000	45.80	10.1	62	16.3	QP	L1	GND
0.532500	38.80	10.1	56	17.2	QP	L1	GND
0.825000	43.40	10.1	56	12.6	QP	L1	GND
0.897000	38.10	10.1	56	17.9	QP	L1	GND
3.754000	43.30	10.4	56	12.7	QP	L1	GND

MEASUREMENT RESULT: "AT1208601103_fin2"

8/2/2012 11:05AM

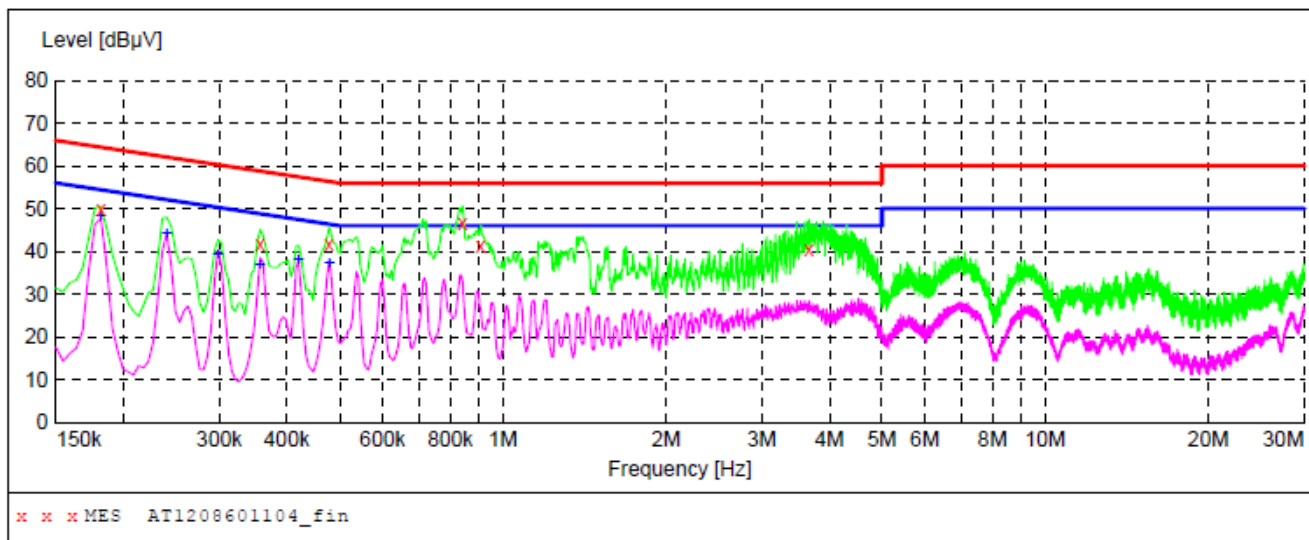
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.177000	46.70	10.1	55	7.9	AV	L1	GND
0.235500	41.40	10.1	52	10.9	AV	L1	GND
0.298500	40.30	10.1	50	10.0	AV	L1	GND
0.357000	36.90	10.1	49	11.9	AV	L1	GND
0.474000	32.50	10.1	46	13.9	AV	L1	GND
0.532500	30.50	10.1	46	15.5	AV	L1	GND

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 120V, 60Hz
 Comment: N
 Tem:25°C Hum:50%

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

Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "AT1208601104_fin"

8/2/2012 11:08AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.181500	49.90	10.1	64	14.5	QP	N	GND
0.357000	41.90	10.1	59	16.9	QP	N	GND
0.478500	41.60	10.1	56	14.8	QP	N	GND
0.843000	46.60	10.1	56	9.4	QP	N	GND
0.910500	41.40	10.1	56	14.6	QP	N	GND
3.668500	40.40	10.4	56	15.6	QP	N	GND

MEASUREMENT RESULT: "AT1208601104_fin2"

8/2/2012 11:08AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.181500	48.10	10.1	54	6.3	AV	N	GND
0.240000	44.30	10.1	52	7.8	AV	N	GND
0.298500	39.40	10.1	50	10.9	AV	N	GND
0.357000	36.70	10.1	49	12.1	AV	N	GND
0.420000	38.20	10.1	47	9.2	AV	N	GND
0.478500	37.10	10.1	46	9.3	AV	N	GND

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

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

3.1.1. For Anechoic Chamber

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

3.2. Block Diagram of Test Setup

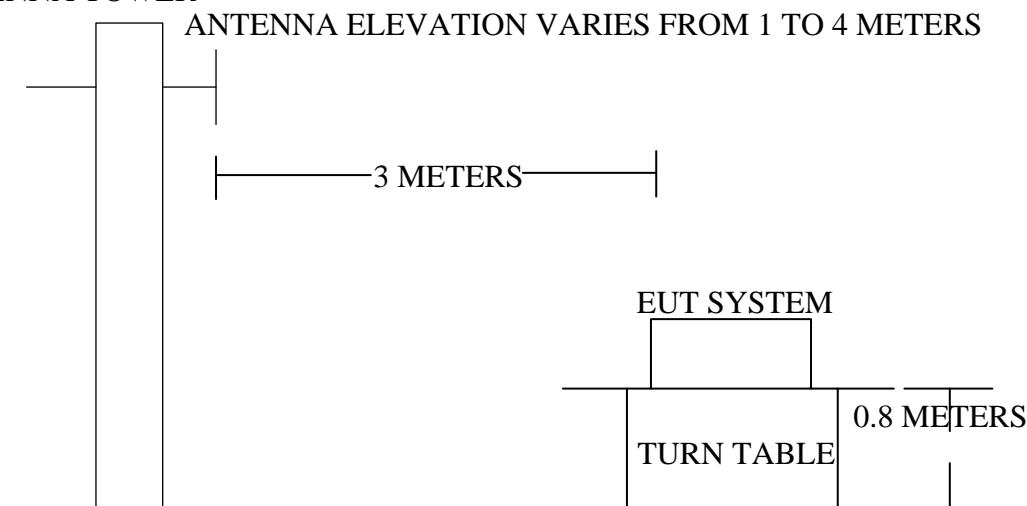
3.2.1. Block diagram of connection between the EUT and simulators



(EUT: Adapter)

3.2.2. Anechoic Chamber Test Setup Diagram

ANTENNA TOWER



(EUT: Adapter)

3.3. 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.

3.4. 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 : Adapter
 Model Number : WDY-12010000
 Applicant : SHENZHEN WEIDAYUAN TECHNOLOGY CO., LTD.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT as shown in Section 3.2.

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

3.6. 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 (Full Load) is tested in chamber and all the test results are listed in Section 3.7.

3.7. Radiated Emission Measurement Results

PASS.

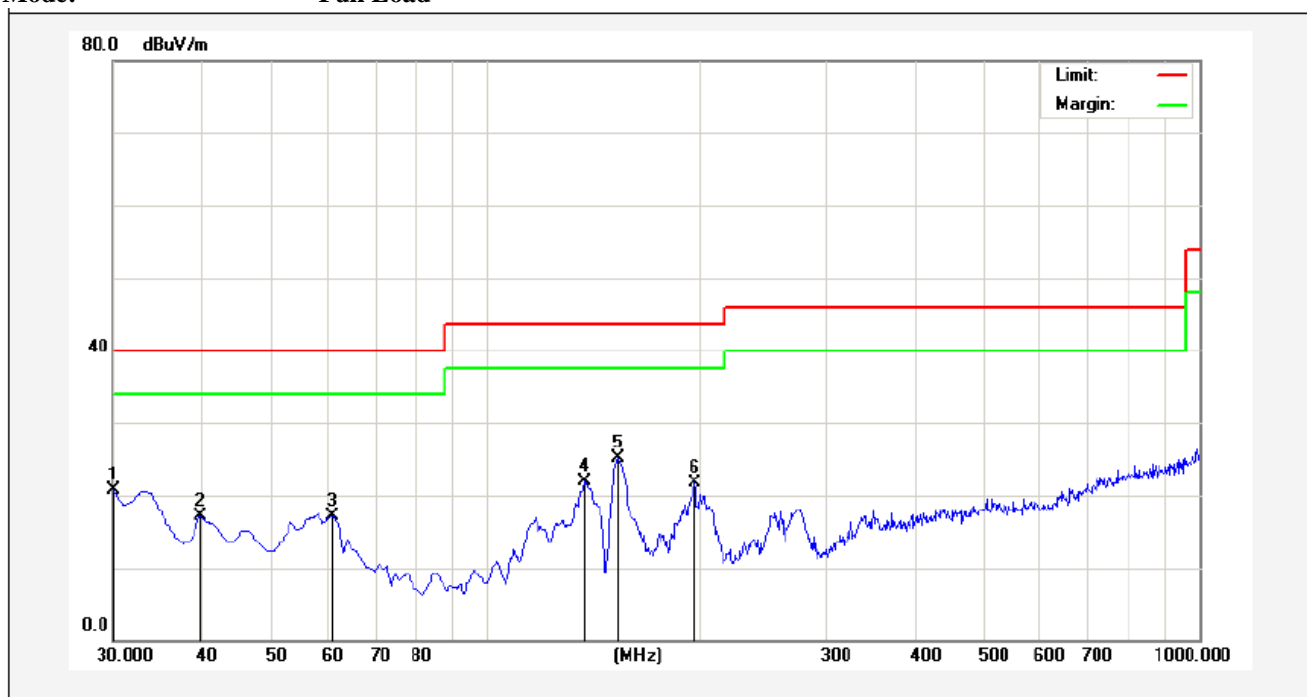
The test curves are shown in the following pages.


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 Http://www.anbotek.com

Job No.:	AT1208601F	Polarziation:	Horizontal
Standard:	(RE)FCC PART15 B _3m	Power Source:	AC 120V, 60Hz
Test item:	Radiation Test	Date:	2012/08/03
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	15:39:24
EUT:	Adapter	Test By:	Barak Ban
Model:	WDY-12010000	Distance:	3m
Mode:	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	30.0000	46.98	-26.32	20.66	40.00	-19.34	peak			
2	39.8541	41.91	-24.87	17.04	40.00	-22.96	peak			
3	61.0399	42.92	-25.83	17.09	40.00	-22.91	peak			
4	137.6700	53.85	-31.99	21.86	43.50	-21.64	peak			
5	153.1900	56.96	-31.82	25.14	43.50	-18.36	peak			
6	195.8700	51.20	-29.41	21.79	43.50	-21.71	peak			


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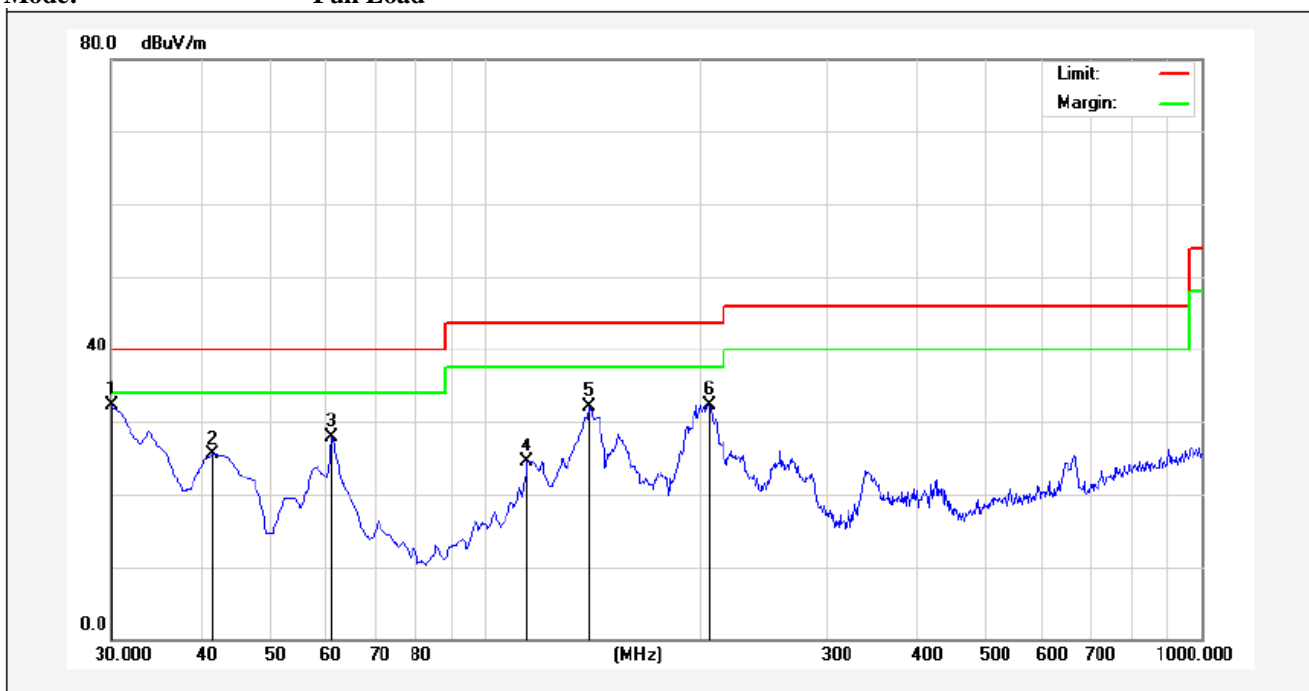
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Http://www.anbotek.com

Job No.:	AT1208601F	Polarization:	Vertical
Standard:	(RE)FCC PART15 B _3m	Power Source:	AC 120V, 60Hz
Test item:	Radiation Test	Date:	2012/08/03
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	15:41:19
EUT:	Adapter	Test By:	Barak Ban
Model:	WDY-12010000	Distance:	3m
Mode:	Full Load		



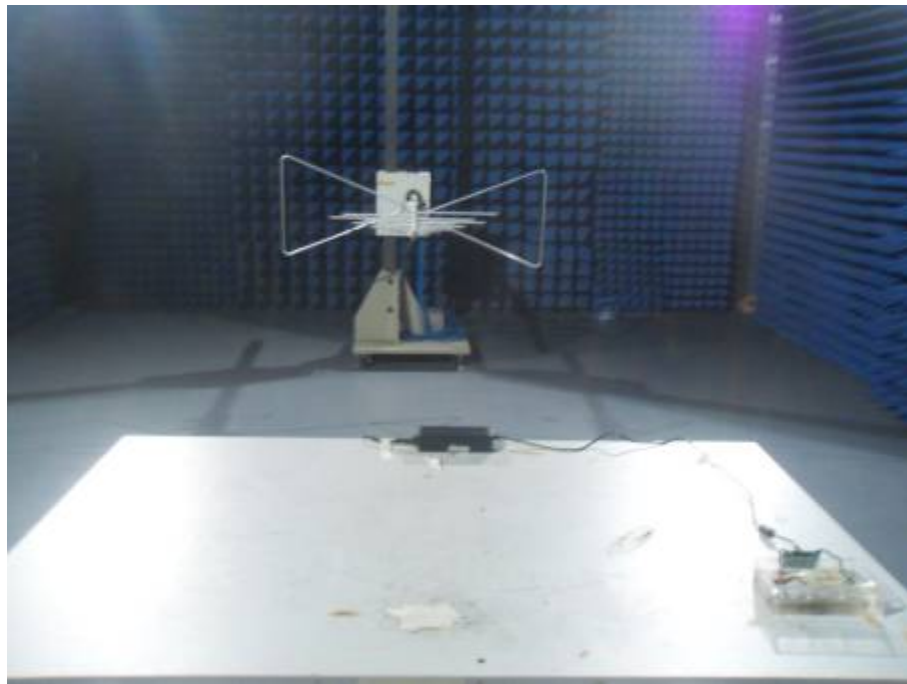
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.0000	58.53	-26.32	32.21	40.00	-7.79	peak			
2	41.6400	50.28	-24.80	25.48	40.00	-14.52	peak			
3	61.0400	53.83	-25.83	28.00	40.00	-12.00	peak			
4	114.3900	49.21	-24.65	24.56	43.50	-18.94	peak			
5	139.6100	59.16	-27.11	32.05	43.50	-11.45	peak			
6	205.5700	56.55	-24.17	32.38	43.50	-11.12	peak			

4. PHOTOGRAPH

4.1. Photo of Power Line Conducted Emission Test



4.2. Photo of Radiated 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
The EUT- Inside View



Figure 5
PCB of the EUT- Front View



Figure 6
PCB of the EUT- Back View

