

EMC TEST REPORT
for
GLOBTEK, INC

Adapter

Model No.: GT(M)B1057-6010, GT(M)B1057-6012, GT(M)B1057-6013.5,
GT(M)B1057-6015, GT(M)B1057-6018, GT(M)B1057-6019,
GT(M)B1057-6020, GT(M)B1057-6022, GT(M)B1057-6024,
GT(M)B1057-6030

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Report Number : E0804093E
Date of Test : April 22, 2008 to April 29, 2008
Date of Report : April 29, 2008

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APPENDIX I (4 Pages)

APPENDIX II (4 Pages)

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TEST REPORT DESCRIPTION

Applicant : GLOBTEK, INC
Manufacturer : GLOBTEK (SHANGHAI) CO., LTD
EUT: Adapter
Model No. : GT(M)B1057-6010, GT(M)B1057-6012, GT(M)B1057-6013.5,
GT(M)B1057-6015, GT(M)B1057-6018, GT(M)B1057-6019,
GT(M)B1057-6020, GT(M)B1057-6022, GT(M)B1057-6024,
GT(M)B1057-6030
Input Voltage : AC 100-240V 50/60Hz

Measurement Procedure Used:

EN 60601-1-2: 2007

(EN 55011:2007, EN61000-3-2: 2006, EN 61000-3-3: 1995+A1: 2001+A2: 2005,
EN61000-4-2: 2001, EN61000-4-3: 2006, EN61000-4-4: 2004, EN61000-4-5: 2006,
EN61000-4-6: 2007, EN61000-4-8: 2001, EN61000-4-11: 2004)

The device described above is tested by SHENZHEN EMTEK CO., LTD. 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 SHENZHEN EMTEK CO., LTD. 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 60601-1-2 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of SHENZHEN EMTEK CO., LTD.

Date of Test : April 22, 2008 to April 29, 2008

Prepared by : Violet
(Engineer)

Reviewer : Richard
(Project Manager)

Approved & Authorized Signer : Richard Lee
(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Adapter

Model Number : GT(M)B1057-6010, GT(M)B1057-6012,
GT(M)B1057-6013.5, GT(M)B1057-6015,
GT(M)B1057-6018, GT(M)B1057-6019, GT(M)B1057-6020,
GT(M)B1057-6022, GT(M)B1057-6024, GT(M)B1057-6030
(Note: The samples are the same, except appearance are
different, We prepare GT(M)B1057-6012 and
GT(M)B1057-6024 for EMI test, and GT(M)B1057-6012 for
EMS test.)

Power Supply : Input: 100-240V~ 50/60Hz 1.5A
Output: 12VDC---5.0A

Output Cord : Unshielded, Undetachable, Core $1.0\text{m} \leq 3.0\text{m}$

Applicant : GLOBTEK, INC

Address : 186 Veterans Dr Northvale, NJ 07647 / USA

Manufacturer : GLOBTEK (SHANGHAI) CO., LTD

Address : Bldg 2, 2085 Jia An Gong Lu, Jiading, Shanghai, 201821,
China

Date of receiver : April 22, 2008

Date of Test : April 22, 2008 to April 29, 2008

1.2. Description of Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2005.11.02

The certificate is valid until 2010.11

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006(identical to ISO/IEC17025:2005)

The Certificate Registration Number is L2291.

Accredited by TUV Rheinland Shenzhen, 2008.3

The Laboratory has been assessed according to the requirements ISO/IEC 17025

Accredited by FCC, July 07, 2005

The Certificate Registration Number is 709623.

Accredited by Industry Canada, August 30,2005

The Certificate Registration Number is 46405-4480

Name of Firm

: SHENZHEN EMTEK CO., LTD

Site Location

: Bldg 69, Majialong Industry Zone,

Nanshan District, Shenzhen, Guangdong, China

1.3. Measurement Uncertainty

Conducted Emission Uncertainty : ± 1.2656dB

Radiated Emission Uncertainty : ± 1.4118dB

Disturbance Power Uncertainty : ± 1.6656dB

2. MEASURING DEVICE AND TEST EQUIPMENT

2.1. For Power Line Conducted Emission

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 29, 2007	1 Year
2.	L.I.S.N	Rohde & Schwarz	ESH2-Z5	834549/005	May 29, 2007	1 Year
3.	50 Coaxial Switch	Anritsu	MP59B	M20531	N/A	N/A
4.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 29, 2007	1 Year
5.	Voltage Probe	Rohde & Schwarz	TK9416	N/A	May 29, 2007	1 Year

2.2. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	ANRITSU	MS2661C	6200140915	May 29, 2007	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 29, 2007	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	142	May 29, 2007	1 Year
4.	50 Coaxial Switch	Anritsu Corp	MP59B	6100237248	May 29, 2007	1 Year
5.	EMI Power Line Filter	DUOJI EME	FNF 201 B16	N/A	May 29, 2007	1 Year
6.	EMI Power Line Filter	JIANLI	DL-40C	N/A	May 29, 2007	1 Year
7.	Cable	Schwarzbeck	AK9513	ACRX1	May 29, 2007	1 Year
8.	Cable	Rosenberger	N/A	FP2RX2	May 29, 2007	1 Year
9.	Cable	Schwarzbeck	AK9513	CRPX1	May 29, 2007	1 Year
10.	Cable	Schwarzbeck	AK9513	CRRX2	May 29, 2007	1 Year
11.	Signal Generator	HP	8648A	3625U00573	May 29, 2007	1 Year

2.3. For Harmonic Current / Flicker Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Power Frequency Test System	HAEFELY	PHF555	080419-03	May 29, 2007	1 Year
2.	PC	N/A	P2L97	N/A	May 29, 2007	N/A

2.4. For Electrostatic Discharge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Tester	HAEFELY	PESD1600	H708159	May 29, 2007	1 Year

2.5. For RF Strength Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	RF Power Meter. Dual Channel	BOONTON	4232A	10539	May 29, 2007	1 Year
2.	50ohm Diode Power Sensor	BOONTON	51011EMC	34236/34238	May 29, 2007	1 Year
3.	Broad-Band Horn Antenna	SCHWARZB ECK	BBHA 9120 L3F	332	May 29, 2007	1 Year
4.	Power Amplifier	PRANA		N/A	May 29, 2007	1 Year
5.	Power Amplifier	MILMEGA	AS0102-55	N/A	May 29, 2007	1 Year
6.	Signal Generator	AEROFLEX	20238	N/A	May 29, 2007	1 Year
7.	Field Strength Meter	HOLADAY	HI-6005	N/A	May 29, 2007	1 Year
8.	RS232 Fiber Optic Modem	HOLADAY	HI-4413P	N/A	May 29, 2007	1 Year
9.	Log.-Per. Antenna	SCHWARZB ECK	VULP 9118E	N/A	May 29, 2007	1 Year

2.6. For Electrical Fast Transient /Burst Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Burst Tester	HAEFELY	PEFT4010	080981-16	May 29, 2007	1Year
2.	Coupling Clamp	HAEFELY	IP-4A	147147	May 29, 2007	1Year

2.7. For Surge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Surge Tester	HAEFELY	PSURGE4.1	080107-04	May 29, 2007	1Year

2.8. For Injected Current Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Simulator	EMTEST	CWS500C	0900-12	May 29, 2007	1Year
2.	CDN	EMTEST	CDN-M2	5100100100	May 29, 2007	1Year
3.	CDN	EMTEST	CDN-M3	0900-11	May 29, 2007	1Year
4.	Injection Clamp	EMTEST	F-2031-23 MM	368	May 29, 2007	1Year
5.	Attenuator	EMTEST	ATT6	0010222A	May 29, 2007	1Year

2.9. For Magnetic Field Immunity Test

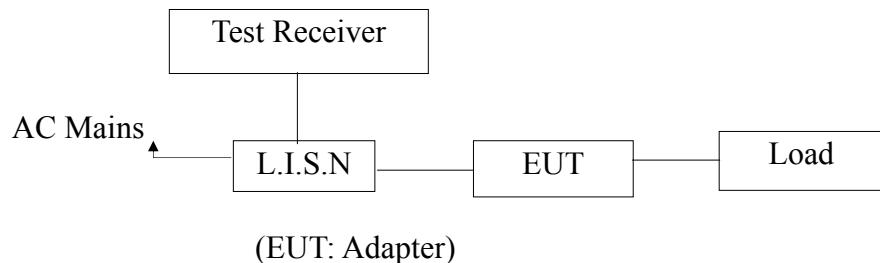
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Magnetic Field Tester	HAEFELY	MAG100	250040.1	May 29, 2007	1Year

2.10. For Voltage Dips and Interruptions Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Dips Tester	HAEFELY	Pline1610	083732-12	May 29, 2007	1 Year

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Block Diagram of Test Setup



3.2. Measuring Standard

EN 60601-1-2: 2007(EN 55011:2007)

Power Line Conducted Emission Limits (Class B)

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.

3.3. 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.

Adapter (EUT)

Model Number : GT(M)B1057-6012, GT(M)B1057-6024

3.4. Operating Condition of EUT

3.4.1. Setup the EUT as shown on Section 3.1.

3.4.2. Turn on the power of all equipments.

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

3.5 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 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 55011 regulations during conducted emission measurement. The bandwidth of the field strength meter (R&S Test Receiver ESCS30) is set at 9KHz in 150KHz~30MHz and 200Hz in 9KHz~150KHz.

The frequency range from 150kHz to 30MHz is investigated
All the scanning waveform is put in Appendix I.

3.6 Measuring Results

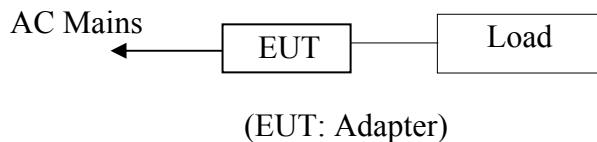
PASS.

Please reference to the following page

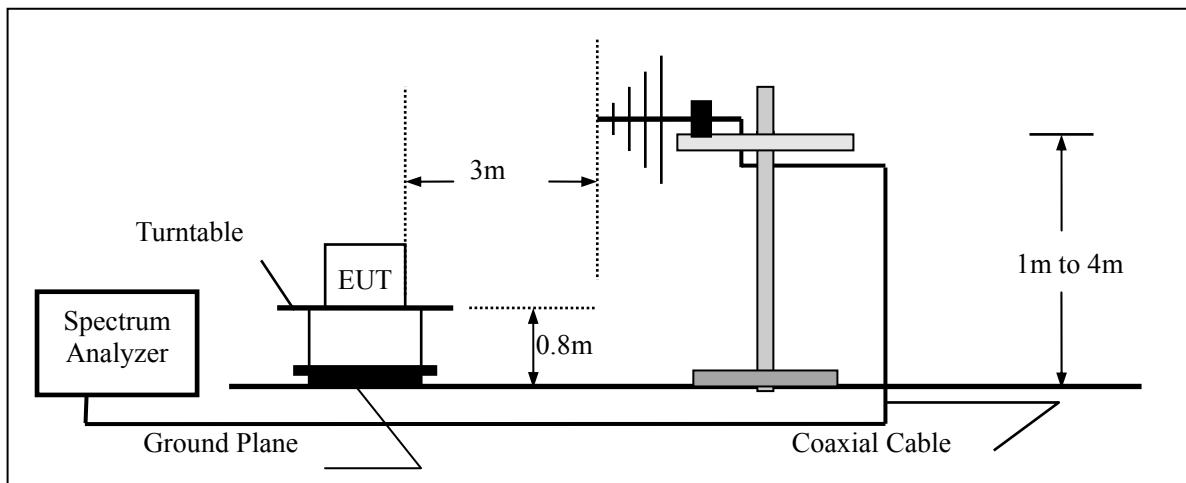
4. RADIATED EMISSION MEASUREMENT

4.1. Block Diagram of Test

4.1.1. Block diagram of connection between the EUT and simulators



4.1.2. Block diagram of test setup (In chamber)



4.2. Measuring Standard

EN 60601-1-2: 2007(EN 55011:2007)

4.3. Radiated Emission Limits

All emanations from a class B 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	10	30
230 ~ 1000	10	37

- 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.

4.4.EUT Configuration on Test

The EN 55011 regulations test method must be used to find the maximum emission during radiated emission measurement.

4.5.Operating Condition of EUT

4.5.1.Turn on the power.

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

4.6.Test Procedure

The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable 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 an antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The bandwidth of the Receiver (ESCS30) is set at 120kHz.

All the scanning curves are attached in Appendix II.

4.7.Measuring Results

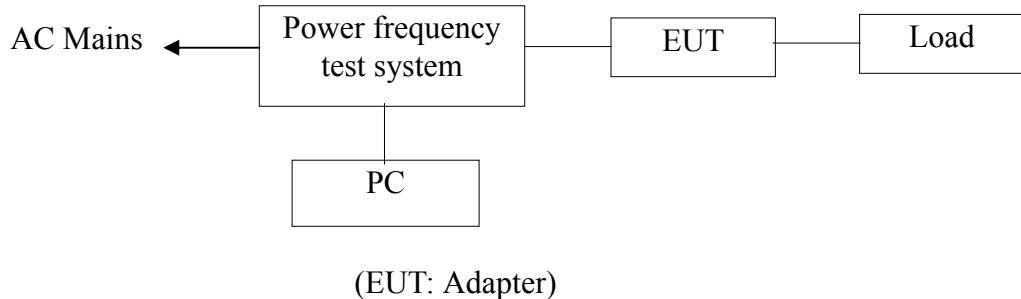
PASS.

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

Please reference to the following page

5. HARMONIC CURRENT EMISSION MEASUREMENT

5.1 Block Diagram of Test Setup



5.2 Measuring Standard

EN 60601-1-2: 2007(EN61000-3-2: 2006) CLASS A

5.3 Operation Condition of EUT

Same as Section 3.5, except the test setup replaced as Section 5.1.

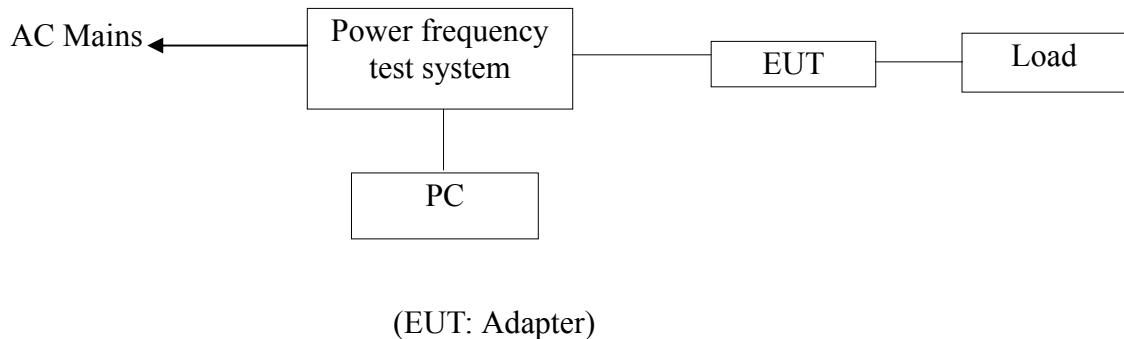
5.4 Measuring Results

PASS.

Because power of EUT less than 75W, According standard EN61000-3-2, Harmonic current unnecessary to test.

6. VOLTAGE FLUCTUATION AND FLICKER MEASUREMENT

6.1 Block Diagram of Test Setup



6.2 Measuring Standard

EN 60601-1-2: 2007(EN 61000-3-3: 1995+ A1: 2001+A2: 2005)

6.3 Operation Condition of EUT

Same as Section 3.5, except the test setup replaced as Section 6.1.

6.4 Measuring Results

PASS.

Please see the attached pages.

EN 61000-3-3 TEST REPORT 2008/04/26 10:24

Unit: Adapter M/N:GT(M)B1057-6012

Op Cond: ON/OFF

Manuf: GlobTek

Operator: ZHW

TEST SETUP

Test Freq.: 50.00 Hz. Test Voltage: 230.0 vac

Waveform : SINE

Test Time: 10.0 min. Tshort: 10.0 min.

Prog. Zo Enabled: YES Prog. Zo: 0.000

Voltage Change less than once per Hour: NO

Impedance selected: IEC-725 STD. REF.

Synthetic R+L Enabled: NO

Resistance: 0.380 Ohms Inductance: 460.000 uH

TEST DATA

Result: PASS

	EUT Data	Limit	Result	Test Enabled
Pst max	0.063	1.00	PASS	true
Plt max	0.063	0.65	PASS	false
dc %	0.04	3.00	PASS	true
dmax %	0.66	4.00	PASS	true
d(t) sec.	0.01	0.20	PASS	true

Power Source Data

Source Pst max	0.022	0.400	PASS	true
% THD	0.03	3.00	PASS	true

END OF REPORT

EN 61000-3-3 TEST REPORT 2008/04/26 09:50

Unit: Adapter M/N:GT(M)B1057-6024

Op Cond: ON/OFF

Manuf: GlobTek

Operator: ZHW

TEST SETUP

Test Freq.: 50.00 Hz. Test Voltage: 230.0 vac

Waveform: SINE

Test Time: 10.0 min. Tshort: 10.0 min.

Prog. Zo Enabled: YES Prog. Zo: 0.000

Voltage Change less than once per Hour: NO

Impedance selected: IEC-725 STD. REF.

Synthetic R+L Enabled: NO

Resistance: 0.380 Ohms Inductance: 460.000 uH

TEST DATA

Result: PASS

	EUT Data	Limit	Result	Test Enabled
Pst max	0.055	1.00	PASS	true
Plt max	0.055	0.65	PASS	false
dc %	0.02	3.00	PASS	true
dmax %	0.61	4.00	PASS	true
d(t) sec.	0.00	0.20	PASS	true

Power Source Data

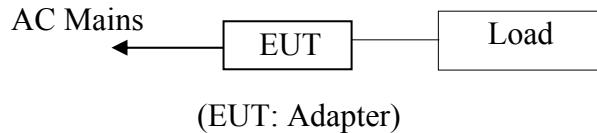
Source Pst max	0.022	0.400	PASS	true
% THD	0.03	3.00	PASS	true

END OF REPORT

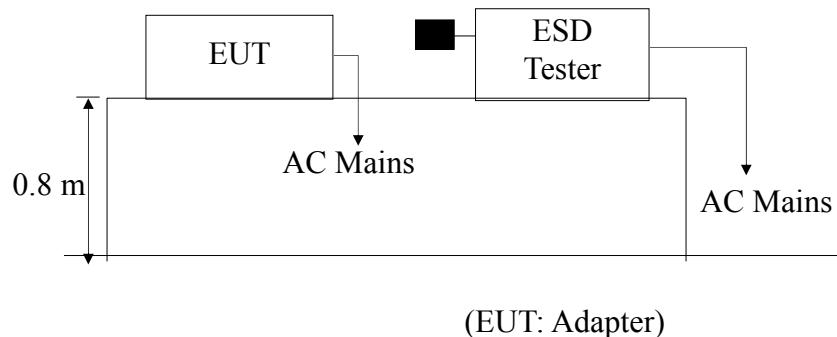
7. ELECTROSTATIC DISCHARGE IMMUNITY TEST

7.1 Block Diagram of Test Setup

7.1.1 Block diagram of connection between the EUT and simulators



7.1.2 Block diagram of ESD test setup



7.2 Test Standard

EN 60601-1-2: 2007(EN61000-4-2: 2001

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

7.3 Severity Levels and Performance Criterion

7.3.1 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

7.3.2 Performance criterion: B

7.4 EUT Configuration

The configuration of EUT is listed in Section 3.4.

7.5 Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 3.5. Except the test set up replaced by Section 7.1.

7.6 Test Procedure

7.6.1 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 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

7.6.2 Contact Discharge:

All the procedure shall be same as Section 7.6.1. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

7.6.3 Indirect discharge for horizontal coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

7.6.4 Indirect discharge for vertical coupling plane

At least 10 single discharges (in the most sensitive polarity) 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.

7.7 Test Results

PASS

Please refer to the following pages

Electrostatic Discharge Test Result

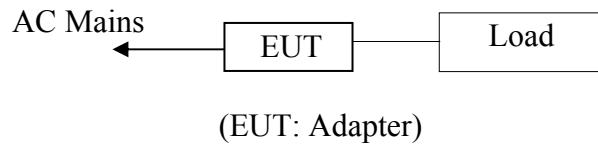
SHENZHEN EMTEK CO., LTD

Applicant	GLOBTEK, INC		
EUT	Adapter	Test Date	April 26, 2008
M/N	GT(M)B1057-6012	Temperature	22°C
Power Supply	AC 230V/50Hz	Humidity	50%
Air discharge	±8.0KV	Criterion	B
Contact discharge	±4.0KV	Test Engineer	Andy
Test Mode	Full Load		
Location		Kind A-Air Discharge C-Contact Discharge	Result
Slot of the EUT	10 points	A	PASS
LED	6 points	A	PASS
LCD	7 points	A	PASS
HCP		C	PASS
VCP of front		C	PASS
VCP of rear		C	PASS
VCP of left		C	PASS
VCP of right		C	PASS
Test Equipment: ESD Simulator (HAEFELY, PESD1600)			

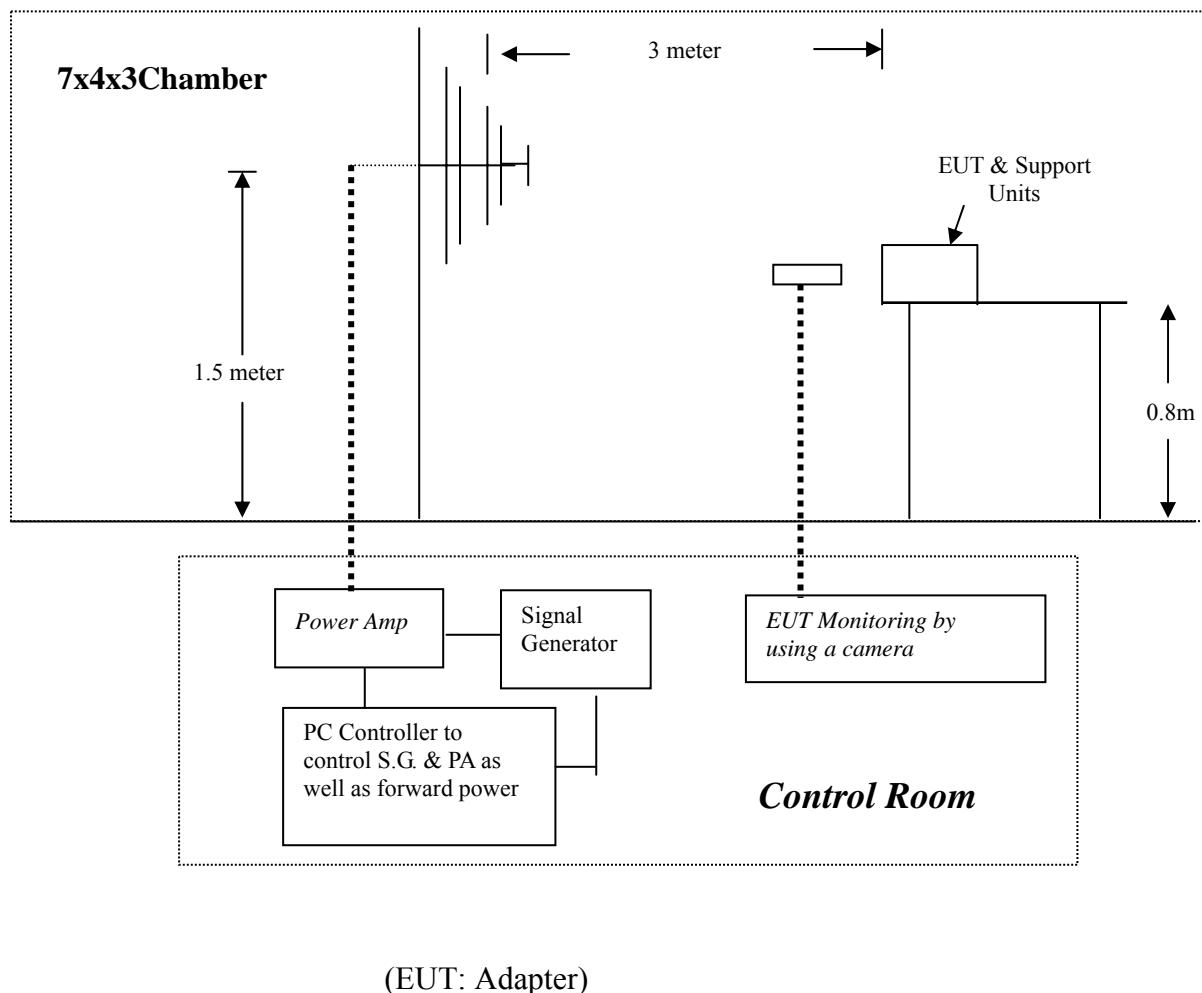
8. RF FIELD STRENGTH SUSCEPTIBILITY TEST

8.1 Block Diagram of Test

8.1.1 Block diagram of connection between the EUT and Load



8.1.2 Block diagram of RS test setup



8.2 Test Standard

EN 60601-1-2: 2007(EN61000-4-3: 2006 (Severity Level: 2, 3V / m))

8.3 Severity Levels and Performance Criterion

8.3.1 Severity Levels

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

8.3.2 Performance Criterion: A

8.4 EUT Configuration on Test

The configuration of the EUT is same as Section 3.4.

8.5 Operating Condition of EUT

Same as radiated emission measurement, which is listed in Section 3.5, except the test setup replaced as Section 8.1.

8.6 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 is 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	Modulated
3. Scanning Frequency	80-1000MHz
4. Sweep time of radiated	0.0015 Decade/s
5. Dwell Time	1 Sec.

8.7 Test Results

PASS.

Please refer to the following page.

RF Field Strength Susceptibility Test Results

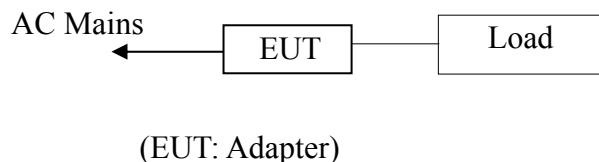
SHENZHEN EMTEK CO., LTD.

Applicant	GLOBTEK, INC		
EUT	Adapter	Test Date	April 26, 2008
M/N	GT(M)B1057-6012	Temperature	22°C
Field Strength	3 V/m	Humidity	50 %
Power Supply	AC 230V/50Hz	Criterion	A
Test Engineer	Andy	Frequency Range	80 MHz to1000MHz
Test Mode	Full Load		
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	Horizontal
Front	PASS	PASS	
Right	PASS	PASS	
Rear	PASS	PASS	
Left	PASS	PASS	
Test Equipment :			
1. Signal Generator: 2023B (AEROFLEX)			
2. Power Amplifier: AS0102-55 (MILMEGA) & AP32MT215 (PRANA)			
3. Log.-Per. Antenna: VULP 9118E (SCHWARZBECK)			
4. Broad-Band Horn Antenna: BBHA 9120L3F (SCHWARZBECK)			
5. RF Power Meter. Dual Channel: 4232A (BOONTON)			
6. Field Strength Meter: HI-6005 (HOLADAY)			
Note:			

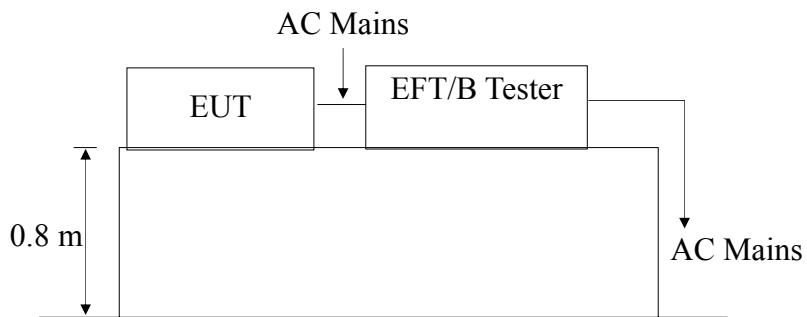
9. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

9.1 Block Diagram of Test Setup

9.1.1. Block Diagram of the EUT



9.1.2. EFT Test Setup



9.2 Test Standard

EN 60601-1-2: 2007(EN61000-4-4: 2004, Severity Level, Level 2: 1KV)

9.3 Severity Levels and Performance Criterion

9.3.1 Severity level

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On Power Supply 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

9.3.2 Performance criterion: B

9.4 EUT Configuration

The configuration of EUT is listed in Section 3.4.

9.5 Operating Condition of EUT

- 9.5.1 Setup the EUT as shown in Section 9.1.
- 9.5.2 Turn on the power of all equipments.
- 9.5.3 Let the EUT work in test mode (Full Load) and measure it.

9.6 Test Procedure

The EUT is put on the table, which is 0.8 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.

9.6.1 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.

9.6.2 For signal lines and control lines ports:

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

9.6.3 For DC output line ports:

It's unnecessary to test.

9.7 Test Result

PASS.

Please refer to the following page.

Electrical Fast Transient/Burst Test Results

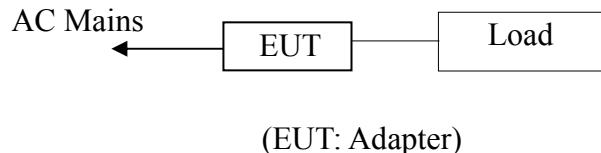
SHENZHEN EMTEK CO., LTD.

Standard	<input type="checkbox"/> IEC 61000-4-4 <input checked="" type="checkbox"/> EN 61000-4-4	Result: <input checked="" type="checkbox"/> PASS / <input type="checkbox"/> FAIL			
Applicant : <u>GLOBTEK, INC</u>					
EUT : <u>Adapter</u>					
M/N : <u>GT(M)B1057-6012</u>					
Input Voltage: <u>AC 230 V</u> <u>50 HZ</u>					
Criterion : B*					
Ambient Condition : <u>22 °C</u> <u>50% RH</u>					
Operation Mode: Full Load					
Line : <input checked="" type="checkbox"/> AC Mains	Line : <input type="checkbox"/> Signal <input type="checkbox"/> I/O Cable				
Coupling : <input checked="" type="checkbox"/> Direct	Coupling : <input type="checkbox"/> Capacitive				
Test Time : 120s					
Line	Test Voltage	Result (+)	Result (-)		
L	1KV	PASS	PASS		
N	1KV	PASS	PASS		
PE					
L、N	1KV	PASS	PASS		
L、PE					
N、PE					
L、N、PE					
Signal Line					
DC Line					
Test Equipment		Burst Tester Model : PEFT 4010			

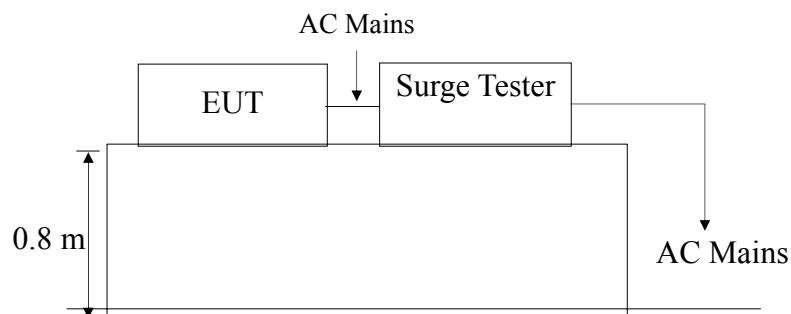
10. SURGE IMMUNITY TEST

10.1 Block Diagram of Test Setup

10.1.1 Block Diagram of the EUT



10.1.2. Surge Test Setup



10.2 Test Standard

EN 60601-1-2: 2007(EN61000-4-5: 2006)
Severity Level 2: Line to Line: 1.0KV.

10.3 Severity Levels and Performance Criterion

10.3.1. Severity level

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

10.3.2 Performance criterion: **B**

10.4 EUT Configuration

The configuration of EUT is listed in Section 3.4.

10.5 Operating Condition of EUT

- 10.5.1 Setup the EUT as shown in Section 10.1.
- 10.5.2. Turn on the power of all equipments.
- 10.5.3. Let the EUT work in test mode (Full Load) and measure it.

10.6 Test Procedure

- 1) Set up the EUT and test generator as shown on Section 10.1.2.
- 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) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 4) Different phase angles are done individually.
- 5) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

10.7 Test Result

PASS.

Please refer to the following page.

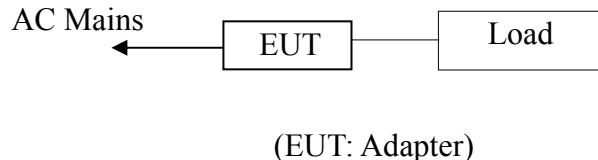
Surge Immunity Test Result

SHENZHEN EMTEK CO., LTD.

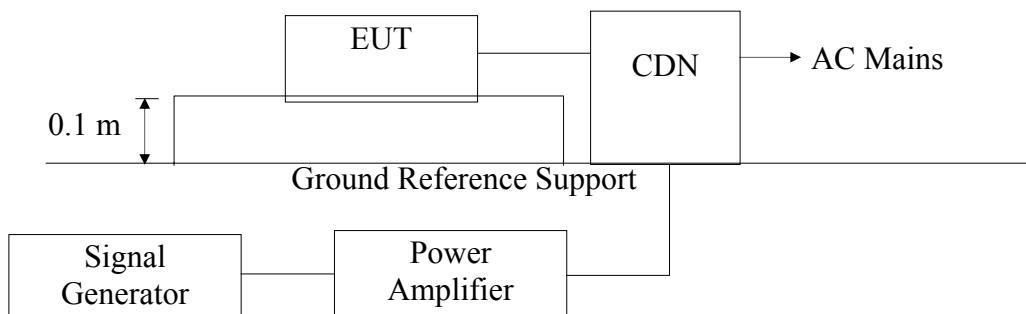
11. INJECTED CURRENTS SUSCEPTIBILITY TEST

11.1 Block Diagram of Test Setup

11.1.1 Block Diagram of the EUT



11.1.2 Block Diagram of Test Setup



11.2 Test Standard

EN 60601-1-2: 2007(EN61000-4-6: 2007, Severity Level: Level 2, 3V (rms),
(0.15MHz ~ 80MHz)

11.3 Severity Levels and Performance Criterion

11.3.1 Severity level

Level	Field Strength V
1	1
2	3
3	10
X	Special

11.3.2 Performance criterion: A

11.4 EUT Configuration

The configuration of EUT is listed in Section 3.4.

11.5 Operating Condition of EUT

- 11.5.1 Setup the EUT as shown in Section 11.1.
- 11.5.2 Turn on the power of all equipments.
- 11.5.3 Let the EUT work in test mode (Full Load) and measure it.

11.6 Test Procedure

- 1) Set up the EUT, CDN and test generators as shown on Section 11.1.2.
- 2) Let the EUT work in test mode and measure it.
- 3) The EUT are placed on an insulating support 0.1m 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.

11.7 Test Results

PASS.

Please refer to the following page.

Injected Currents Susceptibility Test Results

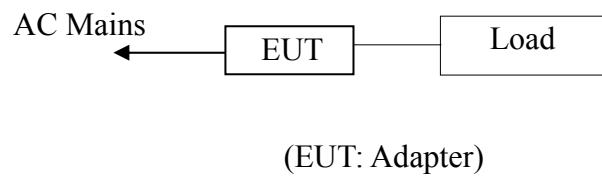
SHENZHEN EMTEK CO., LTD.

Applicant	: GLOBTEK, INC			
EUT	: Adapter		Test Date	: April 26, 2008
M/N	: GT(M)B1057-6012		Temperature	: 22°C
Power Supply	: AC 230V / 50Hz		Humidity	: 58%
Test Mode	: Full Load		Test Engineer	: Andy
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 : 1. Modulation Signal:1KHz 80% AM Measurement Equipment : Simulator: CWS 500 (SWITZERLAND EMTEST) CDN : <input checked="" type="checkbox"/> CDN-M2 (SWITZERLAND EMTEST) <input type="checkbox"/> CDN-M3 (SWITZERLAND EMTEST)			Note:	

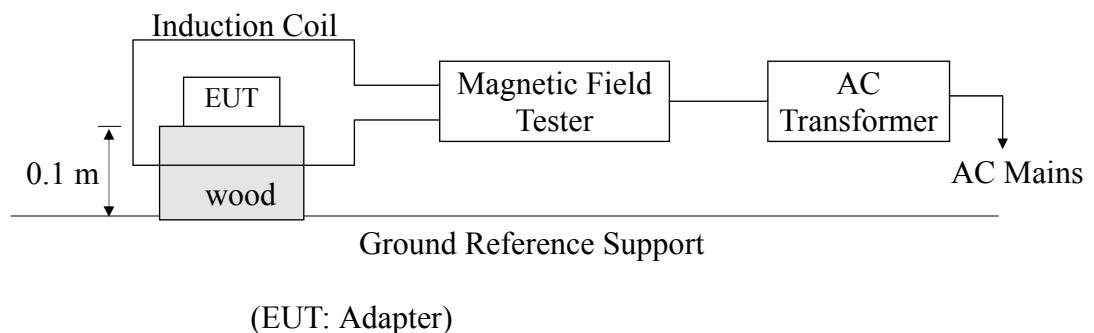
12. MAGNETIC FIELD SUSCEPTIBILITY TEST

12.1 Block Diagram of Test

12.1.1 Block diagram of test setup



12.1.2 Magnetic field test setup



12.2 Test Standard

EN 60601-1-2: 2007(EN61000-4-8: 2001, Severity Level: Level 2, 3A / m)

12.3 Severity Levels and Performance Criterion

12.3.1 Severity Levels

Level	Field Strength A/m
1	1
2	3
3	10
4	30
5	100
X	Special

12.3.2 Performance Criterion: A

12.4 EUT Configuration on Test

The configuration of the EUT is same as Section 3.4.

12.5 Test Procedure

The EUT is placed in the middle of an induction coil (1*1m), under which is a 1*1*0.1m (high) table, this small table is also placed on a larger table, 0.8 m above the ground. X, Y and Z of the induction coil is set on test, so that each side of the EUT is affected by the magnetic field. Also can reach the same aim by change the position of the EUT.

12.6 Test Results

PASS.

Please refer to the following page.

Magnetic Field Immunity Test Result

SHENZHEN EMTEK CO., LTD.

Standard	<input type="checkbox"/> IEC 61000-4-8 <input checked="" type="checkbox"/> EN 61000-4-8	Result: <input checked="" type="checkbox"/> Pass / <input type="checkbox"/> Fail
----------	--	--

Applicant : GLOBTEK, INC

EUT : Adapter M/N: GT(M)B1057-6012

Input Voltage : 230V / 50Hz

Date of Test : April 26, 2008 Test Engineer: Andy

Ambient Condition : Temp : 22°C Humid: 58%

Criterion : A

Operation Mode : Full Load

Test Level (A/M)	Testing Duration	Coil Orientation	Criterion	Result
3	5 mins	X	A	PASS
3	5 mins	Y	A	PASS
3	5 mins	Z	A	PASS

Operation Mode :

Test Level (A/M)	Testing Duration	Coil Orientation	Criterion	Result

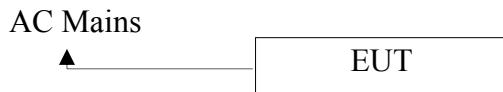
Test Equipment	Magnetic Field Test : HEAFELY MAG 100.1
----------------	---

Note:

13. VOLTAGE DIPS AND INTERRUPTIONS TEST

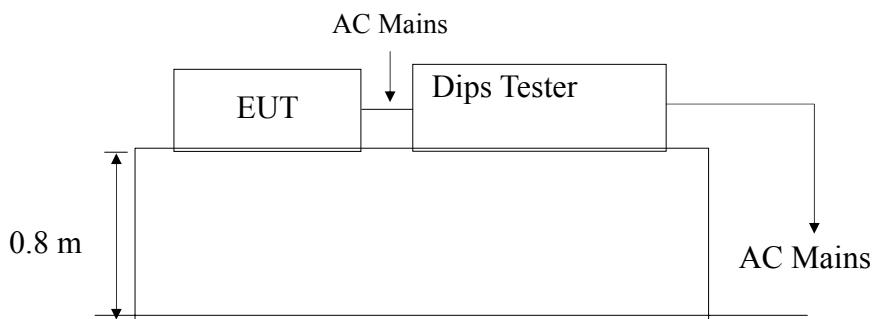
13.1 Block Diagram of Test Setup

13.1.1 Block Diagram of the EUT



(EUT: Adapter)

13.1.2 Dips Test Setup



13.2 Test Standard

EN 60601-1-2: 2007(EN61000-4-11: 2004)

13.3 Severity Levels and Performance Criterion

13.3.1 Severity level

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

13.3.2 Performance criterion: **B&C**

13.4 EUT Configuration

The configuration of EUT is listed in Section 3.4.

13.5 Operating Condition of EUT

13.5.1 Setup the EUT as shown in Section 13.1.

13.5.2 Turn on the power of all equipments.

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

13.6 Test Procedure

- 1) Set up the EUT and test generator as shown on Section 13.1.2.
- 2) The interruption is introduced at selected phase angles with specified duration.
- 3) Record any degradation of performance.

13.7 Test Result

PASS.

Please refer to the following page.

Voltage Dips And Interruptions Test Results

SHENZHEN EMTEK CO., LTD.

Applicant	: GLOBTEK, INC																							
EUT	: Adapter	Test Date	: April 26, 2008																					
M/N	: GT(M)B1057-6012	Temperature	: 22 °C																					
Power Supply	: 230V / 50Hz	Humidity	: 50%																					
Test Mode	: On	Test Engineer	: ANDY																					
<table border="1"> <thead> <tr> <th>Test Level % U_T</th> <th>Voltage Dips & Short Interruptions % U_T</th> <th>Duration (in periods)</th> <th>Criterion <input type="checkbox"/> A <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> C <input type="checkbox"/> D</th> <th>Result P=PASS F=Fail</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>100</td> <td>250P</td> <td>C</td> <td>P</td> </tr> <tr> <td>40</td> <td>60</td> <td>5P</td> <td>C</td> <td>P</td> </tr> <tr> <td>70</td> <td>30</td> <td>0.5P</td> <td>B</td> <td>P</td> </tr> </tbody> </table>					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	250P	C	P	40	60	5P	C	P	70	30	0.5P	B	P
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	250P	C	P																				
40	60	5P	C	P																				
70	30	0.5P	B	P																				
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																				
Note:																								

14. PHOTOGRAPH

14.1 Photo of Conducted Emission Measurement



14.2 Photo of Radiation Emission Measurement



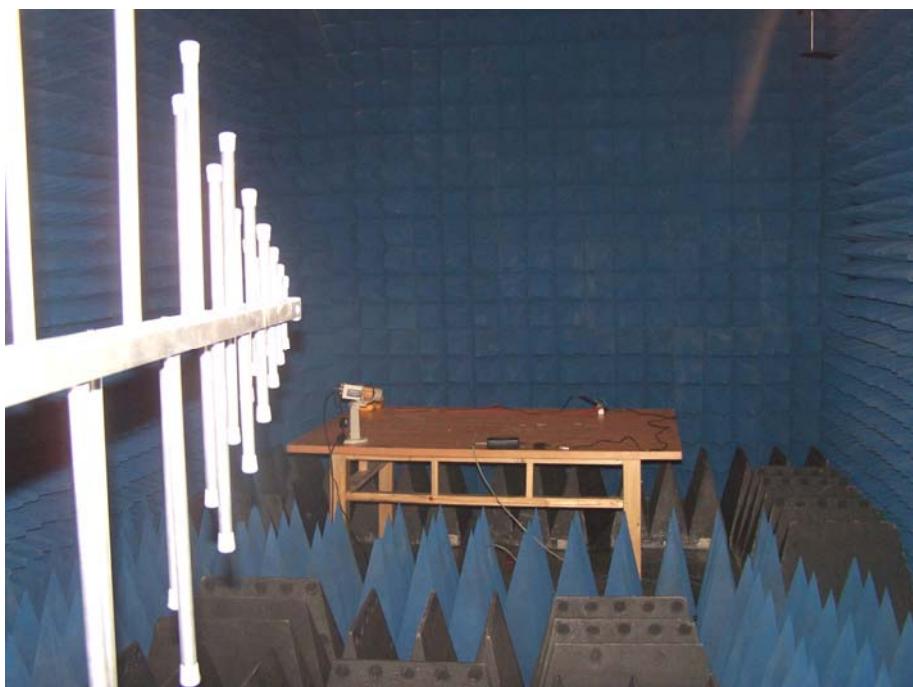
14.3 Photo of Harmonic / Flicker Measurement



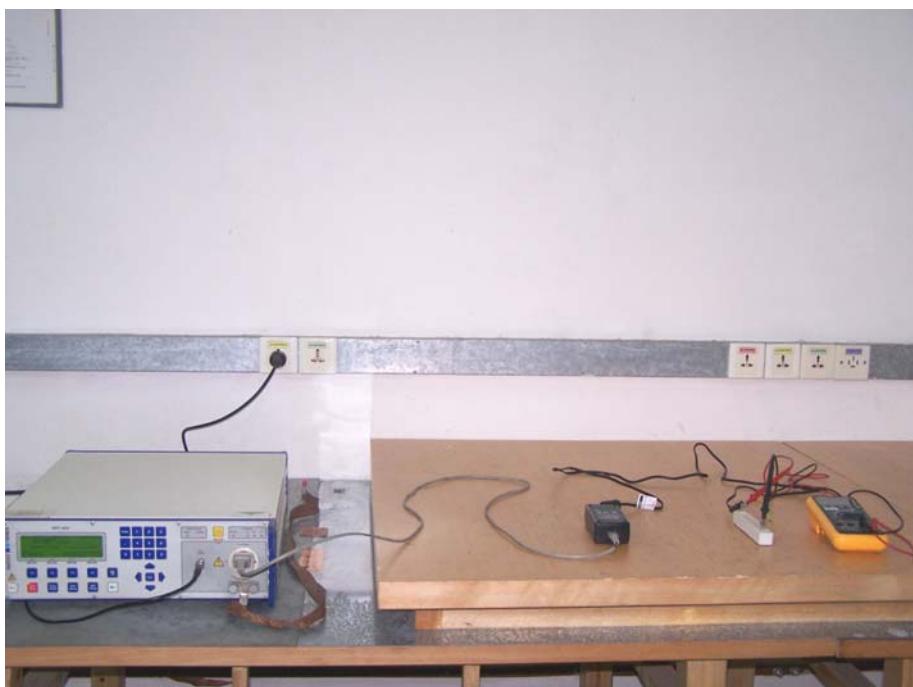
14.4 Photo of Electrostatic Discharge Test



14.5 Photos of RF Field Strength susceptibility Test



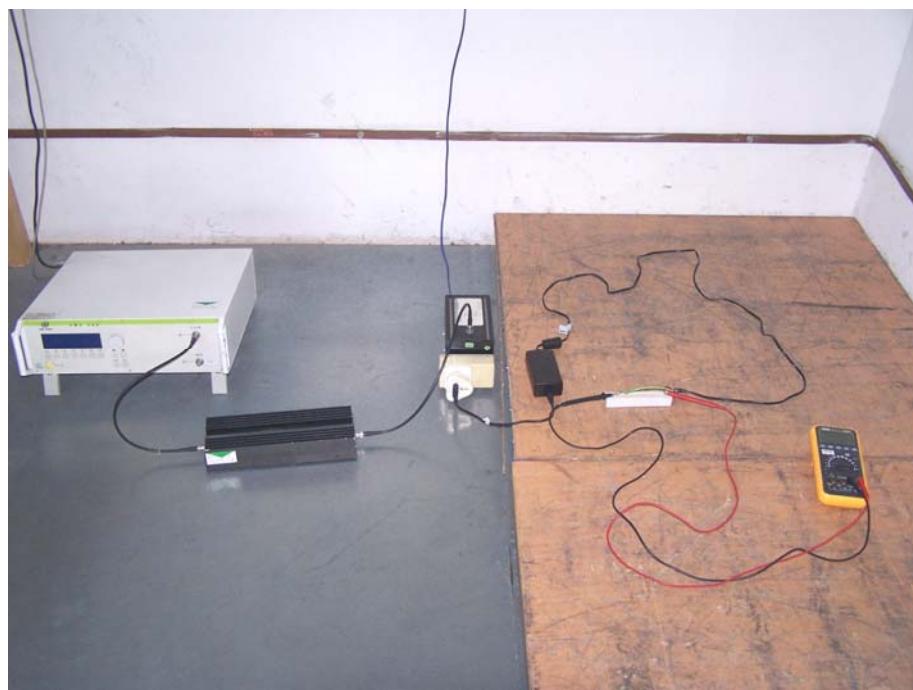
14.6 Photo of Electrical Fast Transient /Burst Test



14.7 Photo of Surge Test



14.8 Photo of Injected Currents Susceptibility Test



14.9 Photo of Voltage Dips and Interruption Immunity Test



APPENDIX I

Bldg 69, Majiaolong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
 www.emtek.com.cn Tel +86-755-2695 4280 Fax +86-755-2695 4282



Conducted Emission Measurement

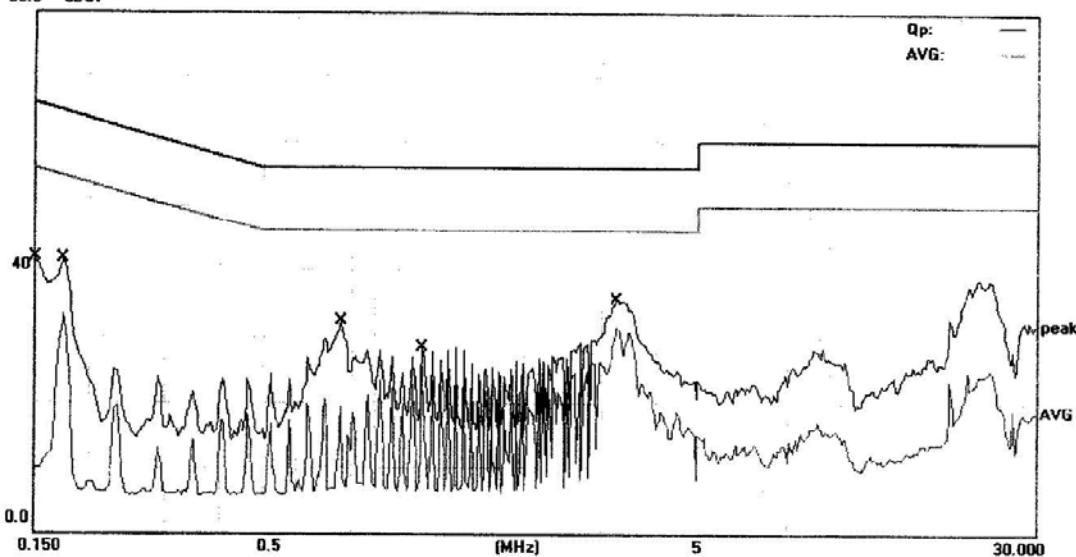
File :GlobTek

Data :#1

Date: 08/04/23/

Time: 9:56:17

80.0 dBuV



Site site #1

Phase: L1

Temperature: 22

Limit: (CE)EN55011 class B_QP

Power: AC 230V/50Hz

Humidity: 50 %

EUT: Adapter

M/N: GT(M)B1057-6012

Mode: FULL LOAD

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Over	
								Detector	Comment
1		0.1500	41.73	0.00	41.73	66.00	-24.27	QP	
2		0.1750	33.25	0.00	33.25	54.72	-21.47	AVG	
3		0.7600	32.27	0.00	32.27	56.00	-23.73	QP	
4		1.1650	25.48	0.00	25.48	46.00	-20.52	AVG	
5		3.2600	35.58	0.00	35.58	56.00	-20.42	QP	
6 *		3.2600	31.49	0.00	31.49	46.00	-14.51	AVG	

*:Maximum data x:Over limit !:over margin

Comment: Factor build in receiver.

Operator: gmr

File :GlobTek\Data .#1

Page: 1

Shenzhen EMTEK Co., Ltd.
Bldg 59 Majiaolong Industry Zone, Nanshan District, Shenzhen, Guangdong 518052 P.R. China
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Conducted Emission Measurement

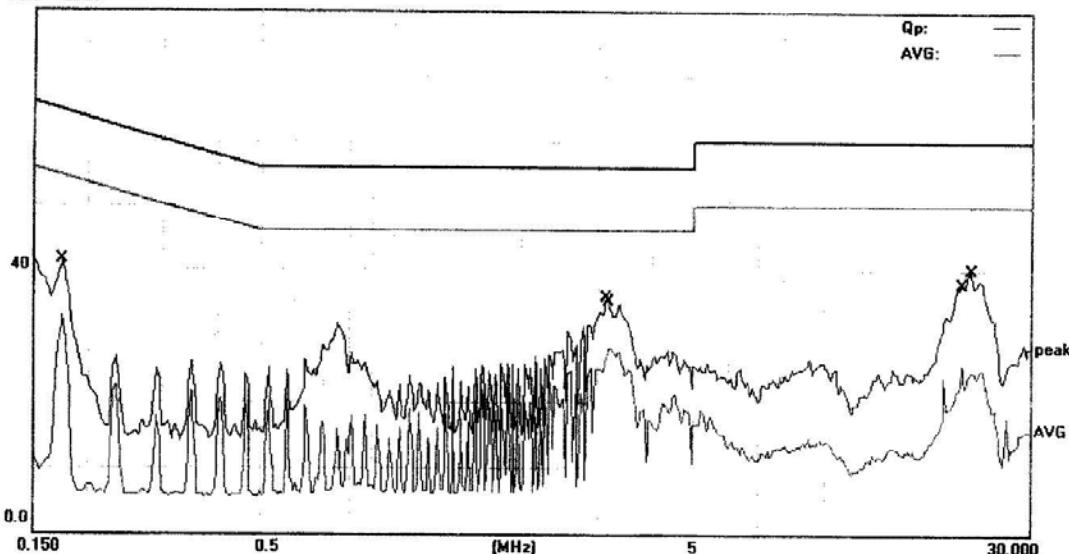
File :GlobTek

Data :#2

Date: 08/04/23/

Time: 9:59:19

80.0 dBuV



Site site #1

Phase: N

Temperature: 22

Limit: (CE)EN55011 class B_QP

Power: AC 230V/50Hz

Humidity: 50 %

EUT: Adapter

M/N: GT (M)B1057-6012

Mode: FULL LOAD

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1750	41.27	0.00	41.27	64.72	-23.45	QP	
2		0.1750	32.74	0.00	32.74	54.72	-21.98	AVG	
3		3.1400	35.74	0.00	35.74	56.00	-20.26	QP	
4 *		3.2000	28.19	0.00	28.19	46.00	-17.81	AVG	
5		20.8500	25.73	0.00	25.73	50.00	-24.27	AVG	
6		21.8750	39.86	0.00	39.86	60.00	-20.14	QP	

*:Maximum data x:Over limit !:over margin

Comment: Factor build in receiver.

Operator: gmr

File :GlobTek\Data .#2

Page: 1

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Conducted Emission Measurement

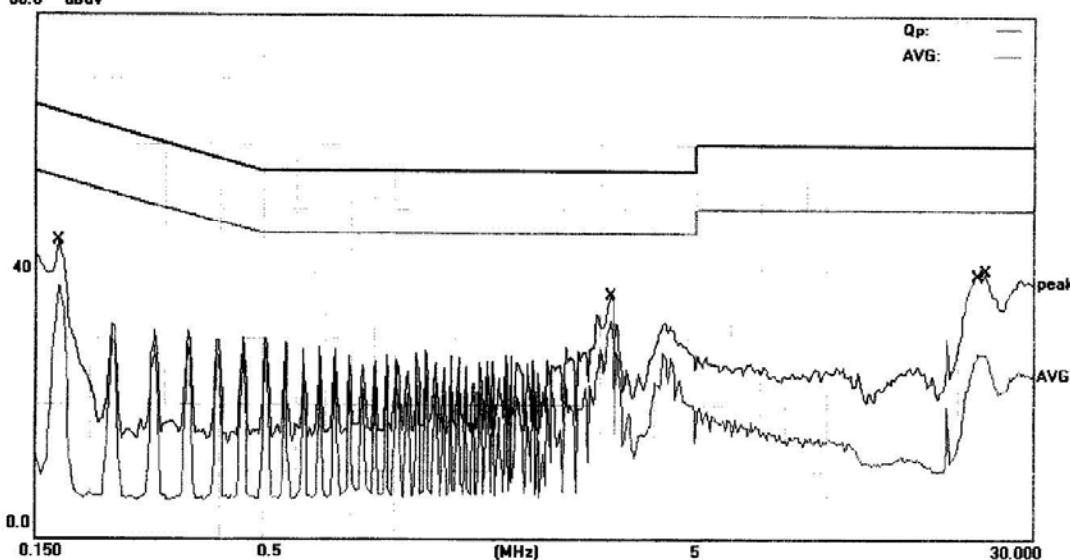
File :GlobTek

Data #:4

Date: 08/04/23/

Time: 18/09/41

80.0 dBuV



Site site #1

Phase: N

Temperature: 22

Limit: (CE)EN55011 class B_QP

Power: AC 230V/50Hz

Humidity: 50 %

EUT: Adapter

M/N: GT(M)B1057-6024

Mode: FULL LOAD

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1		0.1700	44.62	0.00	44.62	64.96	-20.34	QP	
2		0.1700	37.91	0.00	37.91	54.96	-17.05	AVG	
3		3.1800	36.52	0.00	36.52	56.00	-19.48	QP	
4 *		3.1800	32.68	0.00	32.68	46.00	-13.32	AVG	
5		22.4500	27.83	0.00	27.83	50.00	-22.17	AVG	
6		23.3250	40.25	0.00	40.25	60.00	-19.75	QP	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: gmr
File :GlobTek\Data .#4 Page: 1

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Bldg.69,Majialong Industry Zone,Nanshan District,Shenzhen,Guangdong,518052 P.R.China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Conducted Emission Measurement

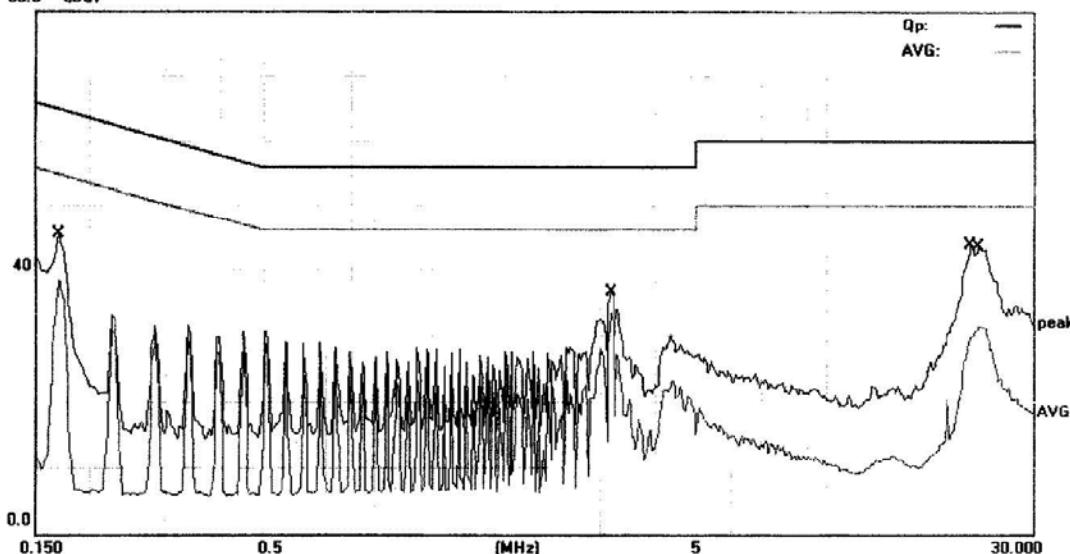
File : GlobTek

Data : #3

Date: 08/04/23/

Time: 18/06/51

80.0 dBuV



Site site #1

Phase: L1

Temperature: 22

Limit: (CE)EN55011 class B_QP

Power: AC 230V/50Hz

Humidity: 50 %

EUT: Adapter

M/N: GT(M)B1057-6024

Mode: FULL LOAD

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		0.1700	45.32	0.00	45.32	64.96	-19.64	QP	
2		0.1700	38.38	0.00	38.38	54.96	-16.58	AVG	
3		3.1800	36.52	0.00	36.52	56.00	-19.48	QP	
4 *		3.1800	33.38	0.00	33.38	46.00	-12.62	AVG	
5		21.6000	43.70	0.00	43.70	60.00	-16.30	QP	
6		22.5000	31.37	0.00	31.37	50.00	-18.63	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: gmr
File : GlobTek\ Data : #3 Page: 1

APPENDIX II

Shenzhen EMTEK Co.,Ltd
Bidg. 68, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282



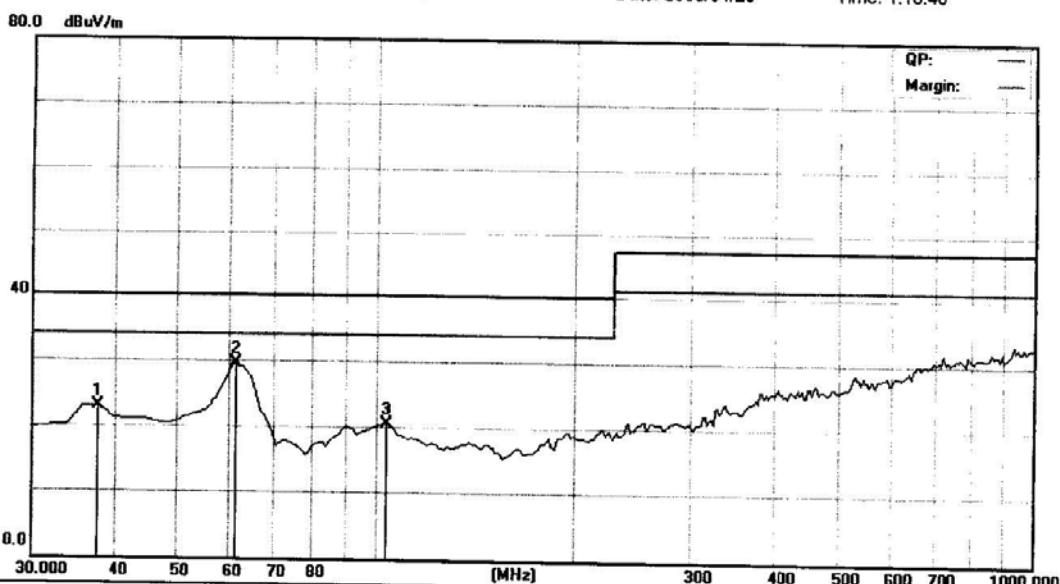
Radiated Emission Measurement

File :GlobTek

Data #:2

Date: 2008/04/23

Time: 1:16:48



Site site #1

Polarization: Horizontal

Temperature: 26

Limit: (RE)EN55011 Class B_QP

Power: AC 230V/50Hz

Humidity: 60 %

EUT: Adapter

M/N: GT(M)B1057-6012

Mode: FULL LOAD

Note:

No.	Mk.	Freq. MHz	Reading dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Detector	Table Height cm	Degree	Comment
1		37.7600	8.72	14.24	22.96	40.00	-17.04	QP			
2 *		61.0400	16.63	12.93	29.56	40.00	-10.44	QP			
3		103.7200	7.28	13.24	20.52	40.00	-19.48	QP			

*:Maximum data x:Over limit !:over margin

Operator:

File :GlobTek\ Data #:2

Page: 1

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Radiated Emission Measurement

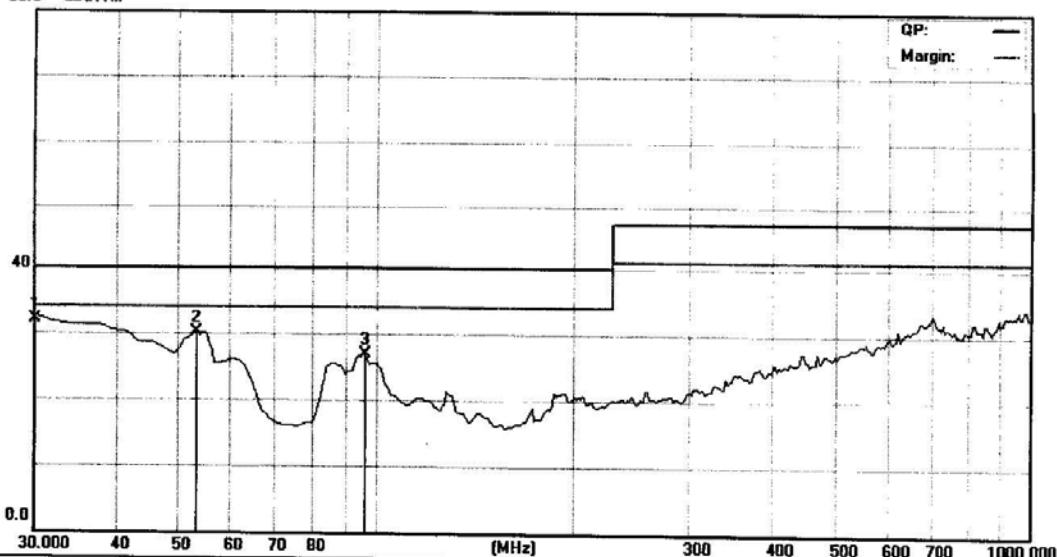
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Data :#1

Date: 2008/04/23

Time: 1:15:25

80.0 dBuV/m



Site site #1

Polarization: Vertical

Temperature: 26

Limit: (RE)EN55011 Class B_QP

Power: AC 230V/50Hz

Humidity: 60 %

EUT: Adapter

M/N: GT(M)B1057-6012

Mode: FULL LOAD

Note:

No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit dBuV/m	Over dB	Antenna Detector	Height cm	Table degree	Comment
			Level dBuV	Factor dB	ment dBuV/m						
1	*	30.0000	17.90	13.93	31.83	40.00	-8.17	QP			
		53.2800	16.66	13.54	30.20	40.00	-9.80	QP			
		95.9600	13.59	13.24	26.83	40.00	-13.17	QP			

*:Maximum data x:Over limit !:over margin

Operator:

File :GlobTek\Data .#1

Page: 1

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Bldg.68,Majiaolong Industry Zone,Nanshan District,Shenzhen,Guangdong,518052 P.R. China
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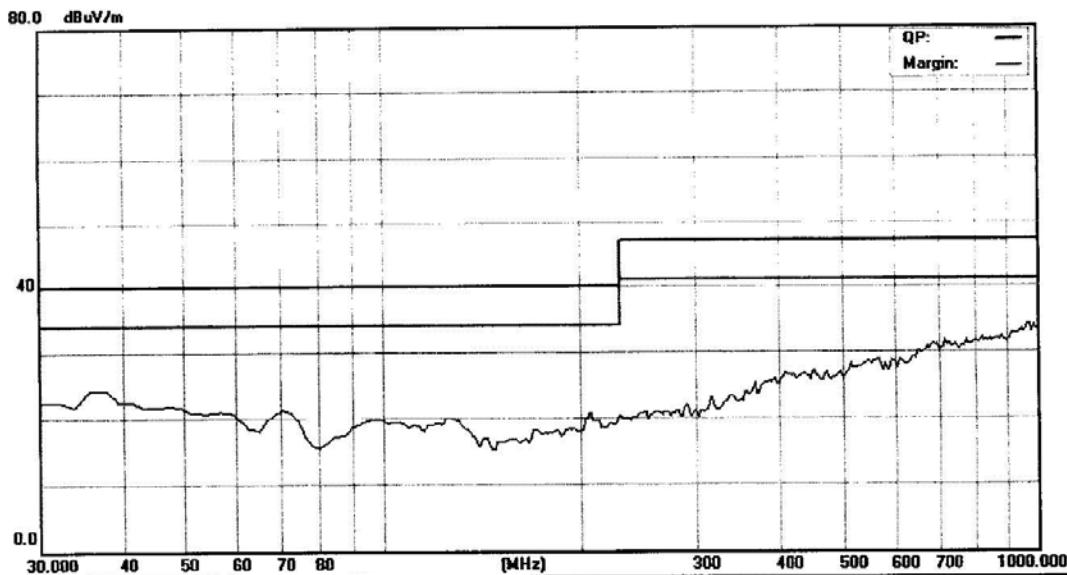
Radiated Emission Measurement

File :GlobTek

Data :#3

Date: 2008/04/25

Time: 2:40:04



Site site #1

Polarization: **Horizontal**

Temperature: 26

Limit: (RE)EN55011 Class B_QP

Power: AC 230V/50Hz

Humidity: 60 %

EUT: Adapter

M/N: GT(M)B1057-6024

Mode: FULL LOAD

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree

*:Maximum data x:Over limit !:over margin

Operator:

File :GlobTek\Data .#3

Page: 1

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Radiated Emission Measurement

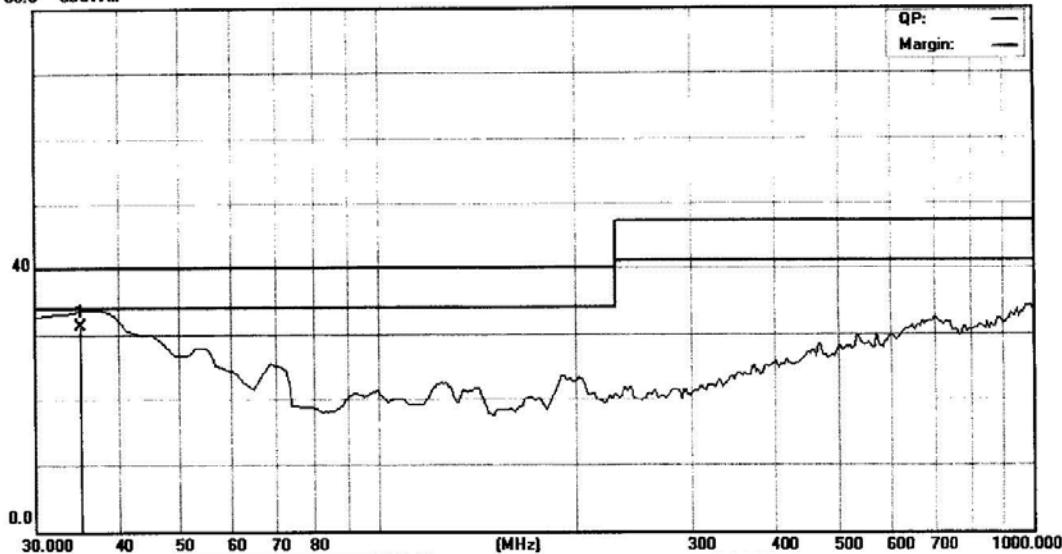
File :GlobTek

Data :#4

Date: 2008/04/25

Time: 2:45:07

80.0 dBuV/m



Site site #1

Polarization: Vertical

Temperature: 26

Limit: (RE)EN55011 Class B_QP

Power: AC 230V/50Hz

Humidity: 60 %

EUT: Adapter

M/N: GT(M)B1057-6024

Mode: FULL LOAD

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	35.1000	17.10	14.24	31.34	40.00	-8.66	QP		

*:Maximum data x:Over limit !:over margin

Operator:

File :GlobTek\Data :#4

Page: 1

APPENDIX III (PHOTOS OF EUT)

FIGURE 1
GENERAL APPEARANCE OF EUT



