

HomeTek Technology Inc.

ADDRESS: No. 67-9, Shir Men Road, Tu Cheng City,
Taipei Hsien, Taiwan, R. O. C.

PHONE : 886-2-22608375 FAX : 886-2-22748013

E - mail : hometek@ms15.hinet.net

FCC TEST REPORT FOR

APPLICANT : SHINING FAIR ENTERPRISES CO LTD
ADDRESS : No 326, Chung Ho Road, Chung Ho City, Taipei Hsien,
Taiwan 235
EUT : Switching Adapter
MODEL NO. : SF05-030-Y~SF05-049-Y,SF05-050-Y~SF05-080-Y,
SF05-081-Y~SF05-120-Y,SF05-121-Y~SF05-150-Y,
SF05-151-Y~SF05-240-Y,SF05-241-Y~SF05-300-Y.



Accredited by the National Voluntary Laboratory Accreditation Program
for the specific scope of accreditation under Lab Code 200331-0

MEASUREMENT PROCEDURE USED

FCC RULES AND CISPR 22 (DOCKET NO. 92-152, SEP. 1993) AND FCC / ANSI C63.4-2003

PREPARED BY :

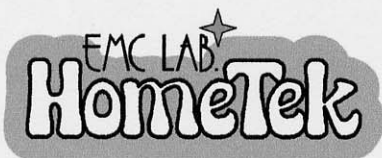
HomeTek Technology Inc.

No. 67-9, Shir Men Road, Tu Cheng City,
Taipei Hsien. Taiwan, R. O. C.

Report # : FDRP5014-1



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CERTIFICATE

for

FCC Part 15, Subpart B Class B

APPLICANT : SHINING FAIR ENTERPRISES CO LTD
ADDRESS : No 326, Chung Ho Road, Chung Ho City, Taipei Hsien,
Taiwan 235
Receipt Date : 11/08/2005 Final Test Date: 11/10/2005
EUT : Switching Adapter
MODEL NO. : SF05-030-Y~SF05-049-Y,SF05-050-Y~SF05-080-Y,
SF05-081-Y~SF05-120-Y,SF05-121-Y~SF05-150-Y,
SF05-151-Y~SF05-240-Y,SF05-241-Y~SF05-300-Y.

MEASUREMENT PROCEDURE USED :


FCC RULES AND CISPR 22 (DOCKET NO. 92-152, SEP. 1993)
AND FCC / ANSI C63.4-2003

TEST PROCEDURE AND DATA ARE TRACEABLE TO NIST/USA,
TL or NML/TAIWAN.

- THE MAXIMUM EMISSION LEVELS WERE COMPARED TO THE CISPR 22 CLASS B LIMITS BOTH RADIATED AND CONDUCTED EMISSION.
- THE ABOVE DEVICE WAS TESTED BY HOMETEK TECHNOLOGY INC. TO SHOWS THE MAXIMUM EMISSION LEVEL FROM THE DEVICE.
- THIS TEST RESULTS OF THIS REPORT APPLIES TO ABOVE TESTED SAMPLE ONLY.
- THIS TEST REPORT SHALL NOT BE REPRODUCE IN PART WITHOUT WRITTEN APPROVAL OF HOMETEK TECHNOLOGY INC.
- THE REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT BY NVLAP OR ANY AGENCY OF THE U. S. GOVERNMENT.
- THE TEST RESULTS ARE TRACEABLE TO THE NATIONAL OR INTERNATIONAL STANDARD.

PREPARED BY : BETTY GUO DATE : 11/10/2005

CHECK BY : GEORGE ZHOU DATE : 11/10/2005
Director

APPROVED BY :  DATE : 11/10/2005
Manager

GENERAL INFORMATION

1	APPLICANT	: <u>SHINING FAIR ENTERPRISES CO LTD</u>
2	ADDRESS	: <u>No 326, Chung Ho Road, Chung Ho City, Taipei Hsien,</u> <u>Taiwan 235</u>
3	MANUFACTURER	: <u>SHINING FAIR ENTERPRISES CO LTD</u>
4	ADDRESS	: <u>No 326, Chung Ho Road, Chung Ho City, Taipei Hsien,</u> <u>Taiwan 235</u>
5	DESCRIPTION OF EUT	
	EUT	: <u>Switching Adapter</u>
	Model Number	: <u>SF05-030-Y~SF05-049-Y,SF05-050-Y~SF05-080-Y,</u> <u>SF05-081-Y~SF05-120-Y,SF05-121-Y~SF05-150-Y,</u> <u>SF05-151-Y~SF05-240-Y,SF05-241-Y~SF05-300-Y.</u>
	FCC ID	: <u>N/A</u>
	Serial #	: <u>N/A</u>

5.1 The EUT were investigated with three operation modes as below:

- (1) AC Full Load Mode
- (2) AC Half Load Mode
- (3) AC No Load Mode

The PCB layout is similar.

Test model: SF05-050-Y~SF05-080-Y,SF05-081-Y~SF05-120-Y,
SF05-151-Y~SF05-240-Y.

The worst case is AC Full Load Mode of SF05-151-Y~SF05-240-Y.
And the final test were show in this test report.

6 Feature

Model No.			Output Voltage	Output Current	Output Watts
SF05-030-Y	~	SF05-049-Y	3.0V~4.90V	1.00A max.	3W max
SF05-050-Y	~	SF05-080-Y	5.0V~8.0V	1.00A max.	5W max
SF05-081-Y	~	SF05-120-Y	8.1V~12.0V	0.62A max	5W max
SF05-121-Y	~	SF05-150-Y	12.1V~15.0V	0.41A max	5W max
SF05-151-Y	~	SF05-240-Y	15.1V~24.0V	0.33A max	5W max
SF05-241-Y	~	SF05-300-Y	24.1V~30.0V	0.21A max	5W max

SF05 - 030 - Y

country case type	S	B	C	G	U	K	
H(Horizontal)	---	---	HC	HG	HU	HK	
X(Interchangeable Plug)	X	X	X	X	X	X	
V(Vertical)	VS	VB	VC	VG	VU	VK	
D(Direct)	DS	DB	DC	DG	DU	DK	
F(Flip plug)	---	---	---	---	FU	---	
D(Desk Top)	---	---	---	---	---	---	D8

S: FOR AUSTRALIA

B: FOR BRITAIN

C: FOR CHINA

G: FOR EUROPE

U: FOR United States of America OR TAIWAN,
JAPAN OR CHINA

K: FOR KOREA

X: FOR INTERCHANGEABLE PLUG

8: FOR 2PIN AC INLET



MODIFICATION LIST

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING :

NO MODIFICATION BY HOMETEK TECHNOLOGY INC.

CONDUCTED POWER LINE TEST

1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the conducted test :

Item	Instruments/ Facilities	Specification	Manufacturer	Model #	Date Of Cal.
1	EMI Receiver	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESHS 30 844827/007	MAR/2004
2	LISN (for EUT)	50 Ω /50uH/100A 150KHz ~ 30MHz	SCHWARZ BECK	NNLK 8121 8121370	OCT/2004
3	LISN (for Support Unit)	50 Ω /50uH/10A 9KHz ~ 30MHz	ROHDE & SCHWARZ	ESH3-Z5 846128/007	FEB/2005
4	Terminator	50 Ω	N/A	N/A	NOV/2004
5	Attenuation	50 Ω /10dB	Mini-Circuit	NAT-10 AT-002	JUL/2004
6	Cable	5.4m	SUHNER	RG-223 CON2-001	AUG/2004
7	ESXS-K1 (software)	Version 2.03b 9KHz ~ 30MHz	ROHDE & SCHWARZ	1082.9678.02 840.913/246	N/A

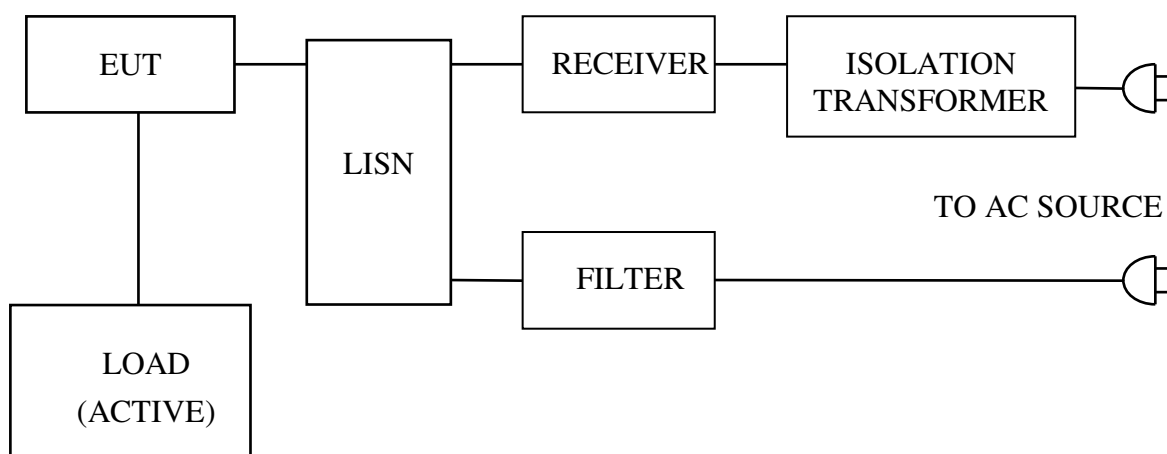
Note : Items 1 ~ 6 were calibrated within period of 1 year.

2 TEST PROCEDURE

- 2.1 The EUT was tested according to **ANSI C63.4 - 2003 & CISPR 22**.
- 2.2 The EUT was placed 0.4 meter from the conducting wall of shielding room and kept at least 0.8 meter from any other grounded conducting surface.
- 2.3 The frequency range form 0.15 MHz to 30 MHz was investigated.
- 2.4 The LISN used was 50 Ohm / 50 uHenry as specified by Section 5.1 of **CISPR22**.
- 2.5 All the support peripherals are connect to the other LISN.
- 2.6 Cables and peripherals were moved to find the maximum emission levels for each frequency.

3 TEST SETUP

3.1 Block Diagram Of Conducted Test



☒ Load

4 CONFIGURATION OF THE EUT

The EUT was configured according to **ANSI C63.4 - 2003 & CISPR 22**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device) :

4.1 EUT

EUT Type : ☐Proto Type ☒Engineer Type ☐Mass Production
 Condition when received : ☒Good ☐Damage :
 Device : Switching Adapter
 Applicant : SHINING FAIR ENTERPRISES CO LTD
 Manufacturer : SHINING FAIR ENTERPRISES CO LTD
 Model Number : SF05-030-Y~SF05-049-Y,SF05-050-Y~SF05-080-Y,
 SF05-081-Y~SF05-120-Y,SF05-121-Y~SF05-150-Y,
 SF05-151-Y~SF05-240-Y,SF05-241-Y~SF05-300-Y.
 Serial Number : N/A
 FCC ID : N/A
 Power Cord(AC) : Direct-plug in,2pin.
 Power Cord(DC) : Un-Shield,1.5m

4.2 PERIPHERALS

☒ LOAD(Full Load)

Manufacturer : HomeTek
 Specification : 114 Ω /5W
 Serial Number : N/A
 FCC ID : N/A
 Data Cable : N/A
 Power Cord : Un-Shielded, 1.5 m



☒ LOAD(Half Load)

Manufacturer : HomeTek
Specification : $228\Omega/2.5W$
Serial Number : N/A
FCC ID : N/A
Data Cable : N/A
Power Cord : Un-Shielded, 1.5 m

☒ LOAD(No Load)

Manufacturer : HomeTek
Specification : $0\Omega/0W$
Serial Number : N/A
FCC ID : N/A
Data Cable : N/A
Power Cord : Un-Shielded, 1.5 m

4.3 REMARK:N/A

5 EUT OPERATING CONDITION

- 5.1 Configure the EUT according to the **ANSI C63.4 - 2003 & CISPR 22**.
- 5.2 The Minimum frequency of the EUT were 50~100 KHz.
- 5.3 Execute the EUT and performance the EMI testing procedures, and measure the maximum emission noise.
- 5.4 The photos of conducted test configuration, please refer to appendix A.**

6 LIMIT OF CONDUCTED POWER LINE EMISSION CLASS B

Frequency Range	Quasi Peak	Average
0.15 ~ 0.5 MHz	66 - 56 dBuV	56 - 46 dBuV
0.5 ~ 5 MHz	56 dBuV	46 dBuV
5 ~ 30 MHz	60 dBuV	50 dBuV

In the above table, the tighter limit applies at the band edges.

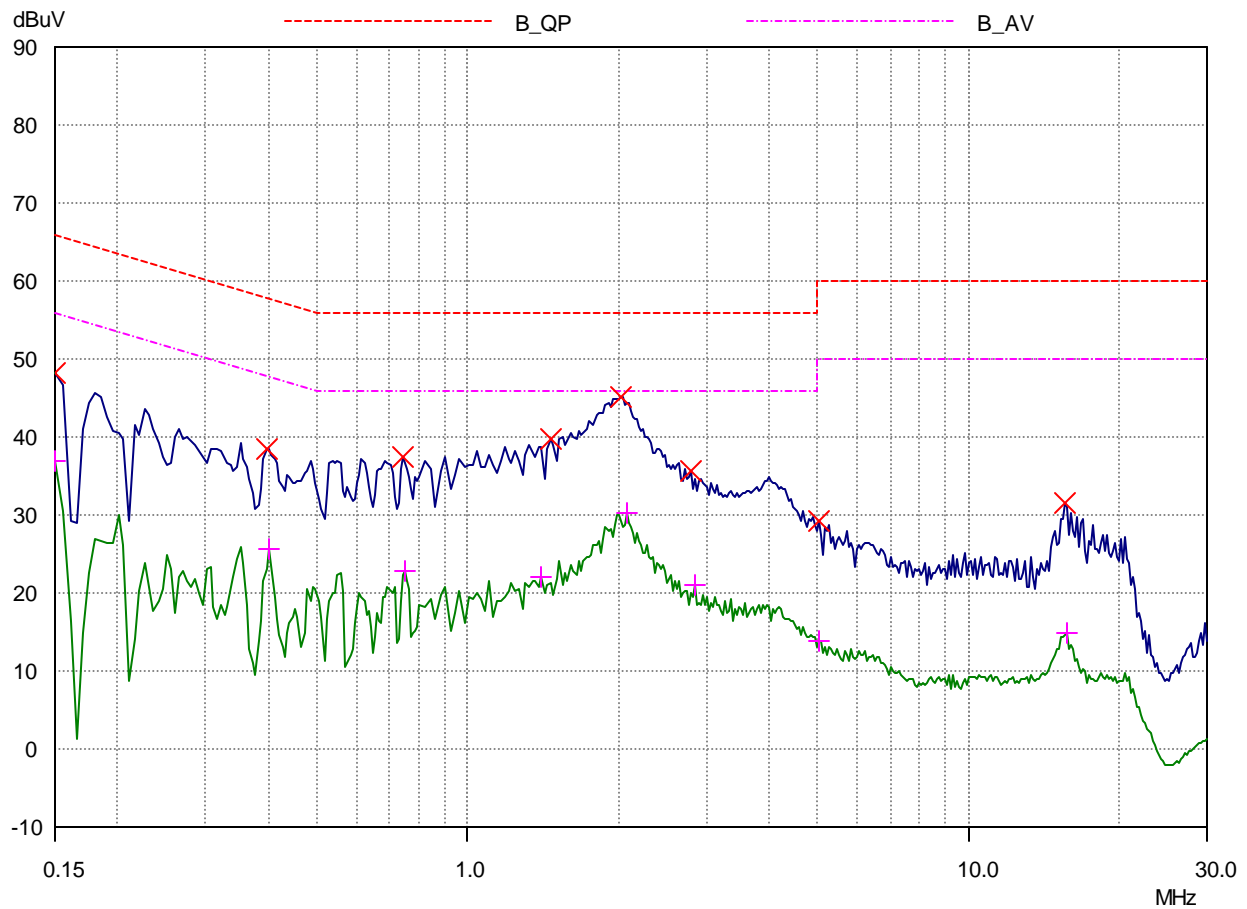
7 RESULT OF CONDUCTED POWER LINE TEST

- 7.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values and average.
- 7.2 IF bandwidth : 9 kHz, Meas Time : 1 sec.
- 7.3 Temperature : 13 °C, Humidity : 45 % RH.
- 7.4 Deviations from the test standards and rules : None
- 7.5 The conducted test result were gained by following procedures :
 Level = Reading Level + Insertion Loss of LISN + Cable Loss
 (All calculation were done by ESHS30 EMI test receiver.)
- 7.6 Result : **PASSED**
 (Result of conducted power line test data were shown as following four pages.)

CONDUCTED EMISSIONS

EUT: SF05-151-Y~SF05-240-Y
Manuf: RP5014-1
Op Cond: LINE
Operator: TERRY
Test Spec: FOR CISPR22 CLASS B
Comment: 110V/60Hz
FULL LOAD
Result File: 50140011D.dat

Prescan Measurement: Detectors: X PK / + AV
Meas Time: see scan settings
Subranges: 8
Acc Margin: 55 dB



CONDUCTED EMISSIONS

EUT: SF05-151-Y~SF05-240-Y
Manuf: RP5014-1
Op Cond: LINE
Operator: TERRY
Test Spec: FOR CISPR22 CLASS B
Comment: 110V/60Hz
FULL LOAD
Result File: 50140011D.dat:

Prescan Measurement: Detectors: X PK / + AV
Meas Time: see scan settings
Subranges: 8
Acc Margin: 55 dB

Peak Search Results

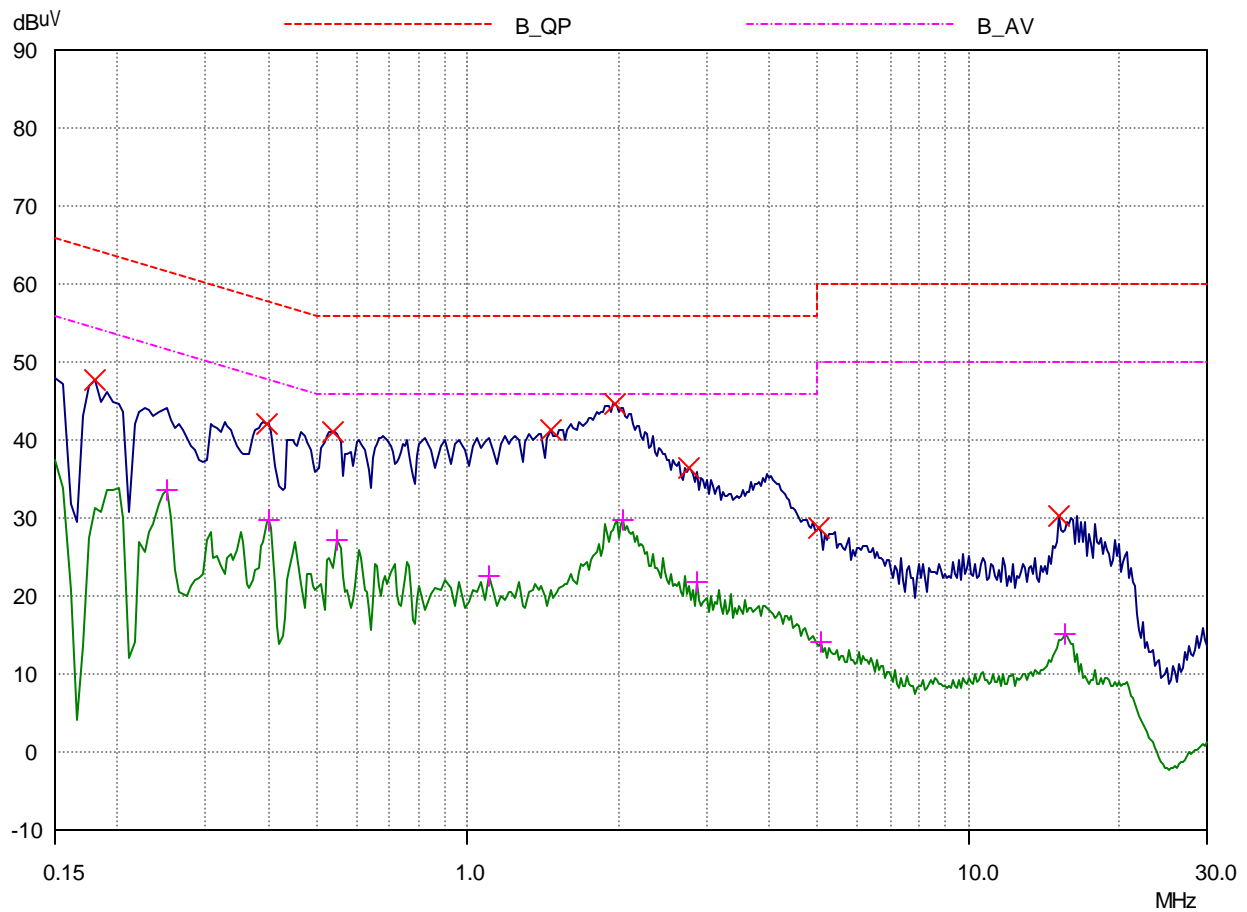
Frequency MHz	PK Level dBuV	PK Limit dBuV	PK Delta dB
0.15	48.18	66.00	17.82
0.395	38.55	57.96	19.41
0.7425	37.43	56.00	18.57
1.46	39.64	56.00	16.36
2.02	45.16	56.00	10.84
2.78	35.74	56.00	20.26
5.0	29.32	60.00	30.68
15.6	31.59	60.00	28.41

Frequency MHz	AV Level dBuV	AV Limit dBuV	AV Delta dB
0.15	36.91	56.00	19.09
0.4	25.70	47.85	22.15
0.749	22.76	46.00	23.24
1.4	22.03	46.00	23.97
2.08	30.29	46.00	15.71
2.84	20.97	46.00	25.03
5.0	13.92	50.00	36.08
15.72	14.78	50.00	35.22

CONDUCTED EMISSIONS

EUT: SF05-151-Y~SF05-240-Y
Manuf: RP5014-1
Op Cond: NEUTRAL
Operator: TERRY
Test Spec: FOR CISPR22 CLASS B
Comment: 110V/60Hz
FULL LOAD
Result File: 50140012D.dat

Prescan Measurement: Detectors: X PK / + AV
Meas Time: see scan settings
Subranges: 8
Acc Margin: 55 dB



CONDUCTED EMISSIONS

EUT: SF05-151-Y~SF05-240-Y
Manuf: RP5014-1
Op Cond: NEUTRAL
Operator: TERRY
Test Spec: FOR CISPR22 CLASS B
Comment: 110V/60Hz
FULL LOAD
Result File: 50140012D.dat

Prescan Measurement: Detectors: X PK / + AV
Meas Time: see scan settings
Subranges: 8
Acc Margin: 55 dB

Peak Search Results

Frequency MHz	PK Level dBuV	PK Limit dBuV	PK Delta dB
0.18	47.76	64.49	16.73
0.395	42.20	57.96	15.76
0.5345	41.12	56.00	14.88
1.46	41.27	56.00	14.73
1.96	44.72	56.00	11.28
2.76	36.33	56.00	19.67
5.0	28.84	60.00	31.16
15.18	30.38	60.00	29.62

Frequency MHz	AV Level dBuV	AV Limit dBuV	AV Delta dB
0.25	33.49	51.76	18.27
0.4	29.85	47.85	18.00
0.5475	27.18	46.00	18.82
1.1	22.49	46.00	23.51
2.04	29.74	46.00	16.26
2.86	21.79	46.00	24.21
5.08	14.06	50.00	35.94
15.48	15.09	50.00	34.91

RADIATED EMISSION TEST

1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the radiated emission test :

Item	Instruments /facilities	Specification	Manufacturer	Model # / S/N#	Date of Cal.
1	OPEN AREA TEST SITE	☑ OATS 3			JAN/2005
2	EMI TEST RECEIVER	20Hz ~ 26.5GHz	ROHDE & SCHWARZ	ESMI 845442/006	SEP/2004
3	PRE-AMPLIFIER	9KHz ~ 3000MHz	ADVANTEST	BB525C 90081001	OCT/2004
4	ANTENNA (BI-LOG)	25MHz ~ 2GHz	SCHAFFNER	CBL6112B S/N : 2611	MAY/2004
5	Attenuation	50Ω/6dB	JYE BAO	FAT-N(M-F) 001	JUL/2004
6	Cable	10m	SUHNER	RG214/U OS3-003	DEC/2004
7	Cable	14m	BELDEN	9913 OS3-001	DEC/2004
8	EMI 32 (software)	N/A	AUDIX	19991013-0923	N/A

Note : Items 1 ~ 9 were calibrated within period of 1 year.

2 TEST PROCEDURE

2.1 The EUT was test according to **ANSI C63.4 - 2003 & CISPR 22**.

2.2 The radiated test was performed at HomeTek Lab's Open Site III.

2.3 The frequency range from 30 MHz to 1 GHz, the measurement were made at 10 meters, with a BI-log antenna.

3 CONFIGURATION OF THE EUT

Same as "Conducted Power Line test", section 4

4 EUT OPERATING CONDITION

4.1 Same as "Conducted Power Line test", section 5

4.2 The radiated emission in the frequency range from 30 MHz - 1000 MHz was test in a horizontal and vertical polarization at HomeTek Lab's open site III.

4.3 The photos of radiated test configuration, please refer to appendix A.

5 LIMIT OF RADIATED EMISSION CLASS B

CISPR 22

Frequency (MHz)	Measurement Distance	Limit (dBuV/m)
30 - 230	10 (M)	30
230 - 1000	10 (M)	37

5.1 The tighter limit shall apply at the edge between two frequency bands.

5.2 Measurement distance in meters between the measuring instrument antenna and the closed point of any part of the EUT or peripherals.

6 RESULT OF RADIATED EMISSION TEST

6.1 The frequency range from 30 MHz to 1 GHz was investigated.

6.2 All readings below or equal 1 GHz are quasi-peak or peak values with resolution bandwidth of 120 KHz.

6.3 All readings above 1 GHz are average or peak values with resolution bandwidth of 1 MHz

6.4 The measurements were made at 10 meters of HomeTek Lab's open site III.

6.5 Temperature : 13 °C, Humidity : 45 % RH.

6.6 Deviation form the test standards and rules : None

6.7 The radiation emission result were gained by the following method :

Level = Reading Level + Probe Factor (Antenna Factor) + Cable Loss – Preamp Factor

Over Limit = Level – Limit Line

6.8 The radiated mission test was passed at minimum margin :

Vertical 59.100 MHz/ 26.63 dBuV/m, Antenna Height 2.9 Meter,

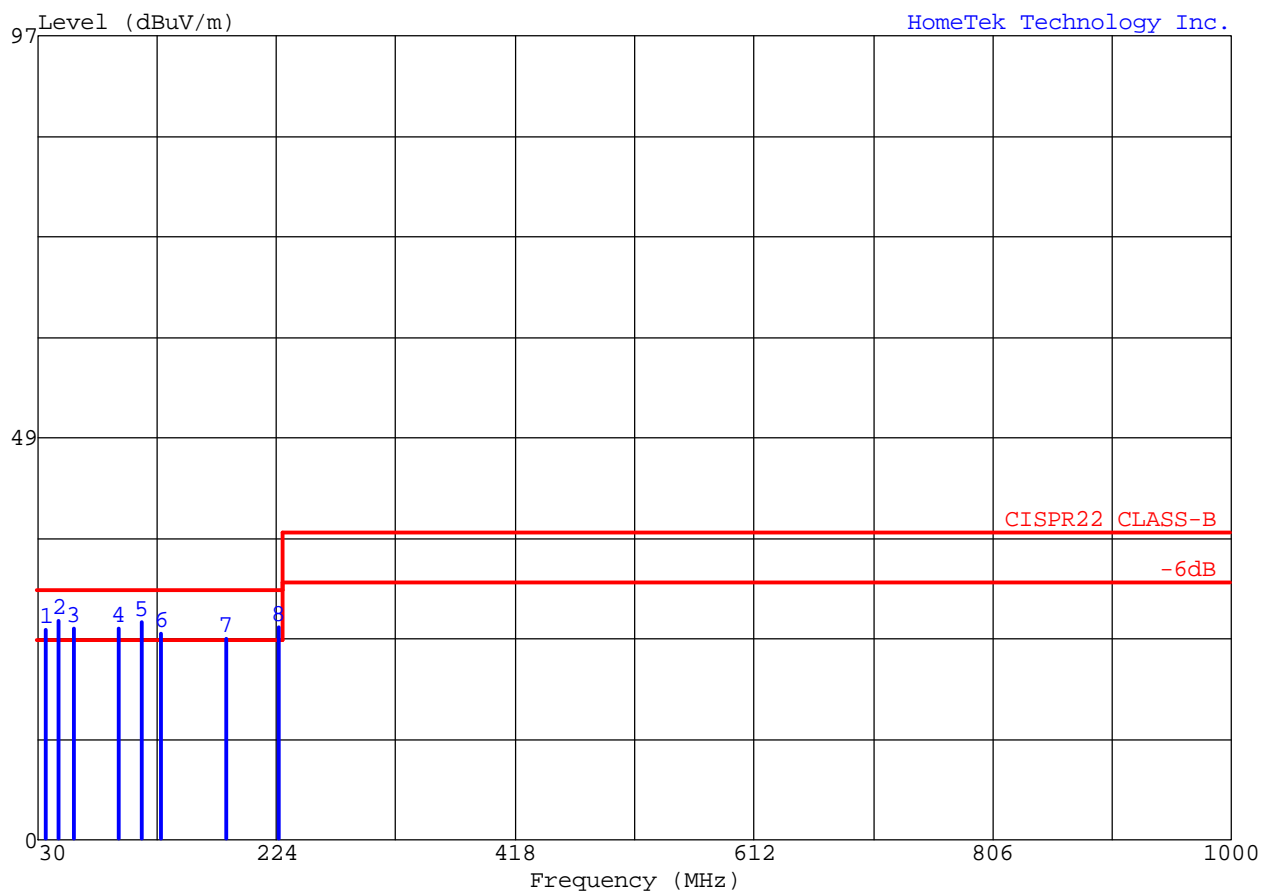
Turn Table 165 degree, The Model: **SF05-151-Y~SF05-240-Y**

6.9 Result : **PASSED**

(Result of radiated emission test data were shown as following two pages.)

Data#: 5 File#: RP5014-1.EMI

Date: 3-10,2005 Time: 14:51:07



Hometek

Trace :

Limit : CISPR22 CLASS-B 10m

Probe : LPB-250/A-031028 HORIZONTAL

Margin: -6.0dB

EUT : SF05-151-Y~SF05-240-Y

Power : 110V/60Hz

Memo : FULL LOAD

:
:

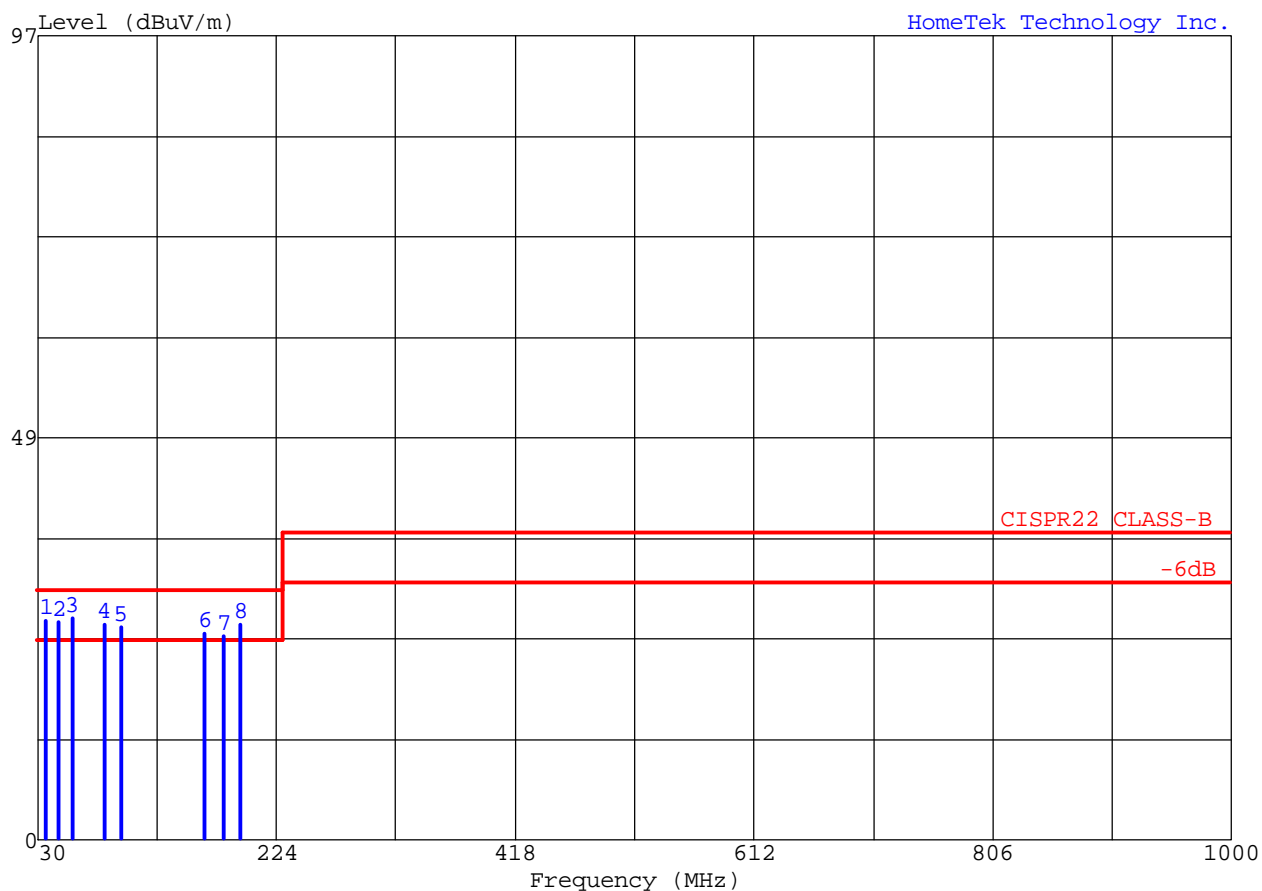
Ref Trace:

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1 !	37.760	25.22	-4.78	30.00	39.67	17.51	2.24	34.20	Peak
2 !	48.430	26.31	-3.69	30.00	42.68	15.20	2.59	34.16	QP
3 !	60.070	25.36	-4.64	30.00	46.23	11.51	1.78	34.16	Peak
4 !	96.930	25.31	-4.69	30.00	44.99	11.64	2.75	34.06	Peak
5 !	115.360	26.20	-3.80	30.00	44.75	12.05	3.44	34.03	QP
6 !	131.850	24.82	-5.18	30.00	43.19	11.92	3.74	34.03	Peak
7 !	184.230	24.19	-5.81	30.00	43.87	11.23	3.07	33.99	Peak
8 !	226.910	25.47	-4.53	30.00	41.11	13.60	4.72	33.95	Peak

Data#: 6 File#: RP5014-1.EMI

Date: 11-09,2005 Time: 15:28:46



Hometek

Trace :

Limit : CISPR22 CLASS-B 10m

Probe : LPB-250/A-031028 VERTICAL

Margin: -6.0dB

EUT : SF05-151-Y~SF05-240-Y

Power : 110V/60Hz

Memo : FULL LOAD

:

:

Ref Trace:

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1 !	37.760	26.35	-3.65	30.00	40.80	17.51	2.24	34.20	QP
2 !	48.430	26.14	-3.86	30.00	42.51	15.20	2.59	34.16	QP
3 !	59.100	26.63	-3.37	30.00	47.58	11.51	1.70	34.16	QP
4 !	85.290	25.87	-4.13	30.00	46.98	10.70	2.31	34.12	Peak
5 !	98.870	25.57	-4.43	30.00	45.38	11.68	2.56	34.05	Peak
6 !	166.770	24.78	-5.22	30.00	44.76	10.41	3.61	34.00	Peak
7 !	182.290	24.45	-5.55	30.00	44.38	11.17	2.89	33.99	Peak
8 !	195.870	25.86	-4.14	30.00	44.29	12.00	3.55	33.97	Peak

SAMPLE OF FCC DOC LABEL 1

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions: (1)
This device may not cause harmful interference. And (2)
this device must accept any interference received, including
interference that may cause undesired operation.

SAMPLE OF FCC DOC LABEL 2



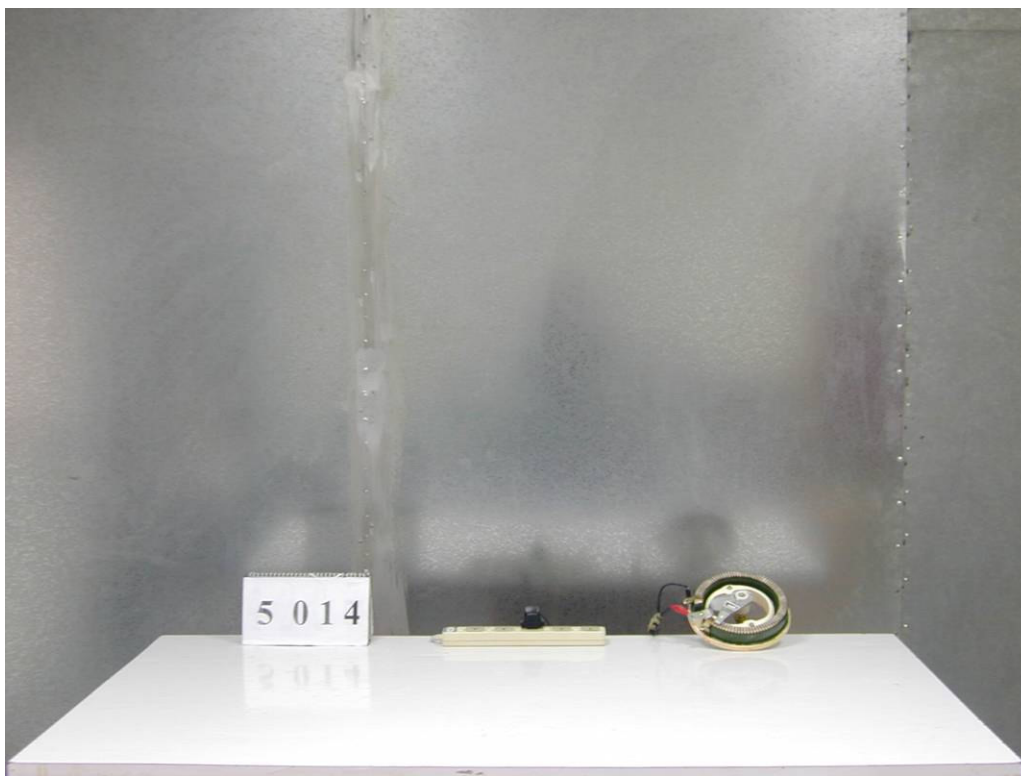


HomeTek Technology Inc.

Appendix A

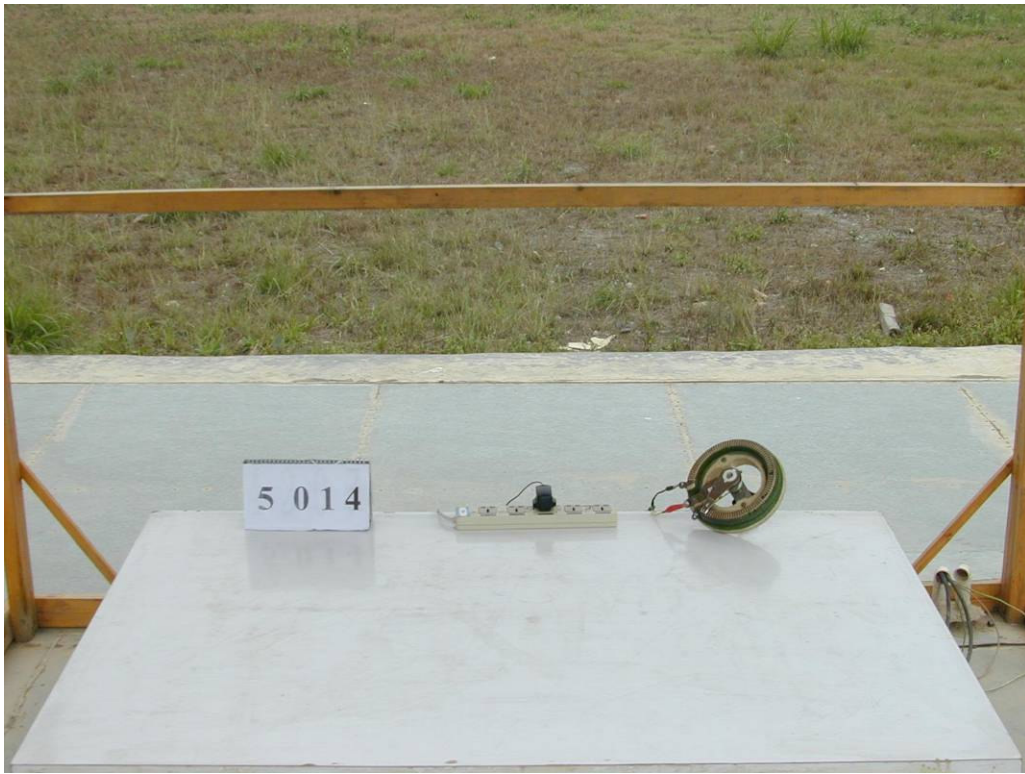
PHOTOS OF TEST CONFIGURATION

PHOTO OF CONDUCTED POWER LINE TEST



Front View

PHOTO OF RADIATED EMISSION TEST



Front View

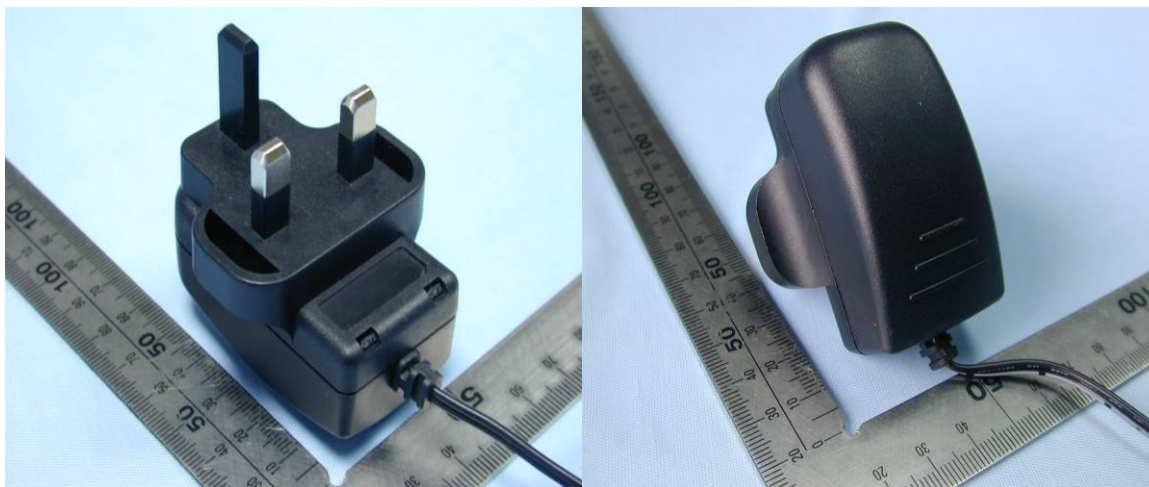


HomeTek Technology Inc.

Appendix B

PHOTOS OF EUT

PHOTO OF EUT



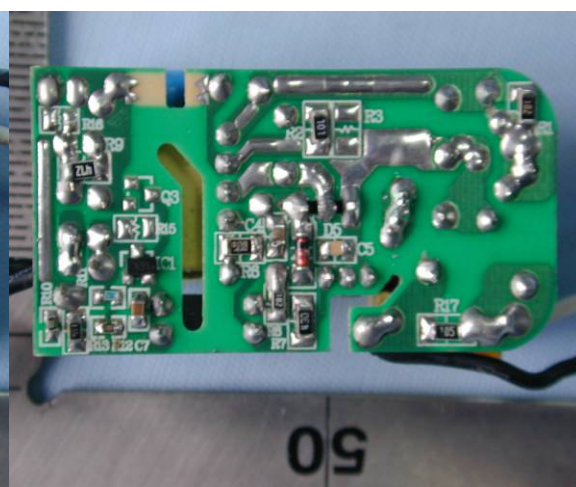
Full View of EUT



Inside View of EUT



Full View of Component Side



Full View of Solder Side



HomeTek Technology Inc.

Appendix C

PHOTOS OF DIFFERENT CASE



Full View of Different Case

Declaration of Conformity

Responsible Party Name :

Address :

Phone No :

Fax No :

Declares under our sole responsibility that the product

Product Name : Switching Adapter

Model No. : SF05-030-Y~SF05-049-Y,SF05-050-Y~SF05-080-Y,

SF05-081-Y~SF05-120-Y,SF05-121-Y~SF05-150-Y,

SF05-151-Y~SF05-240-Y,SF05-241-Y~SF05-300-Y.

to which this declaration relates is in conformity with the following standards or other normative documents

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Representative Person's Name :

Signature :

Date :

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:1999

NVLAP LAB CODE: 200331-0

HomeTek Technology Inc.

Taipei Shien 236

TAIWAN

is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in
NIST Handbook 150:2001 and all requirements of ISO/IEC Guide 17025:1999.

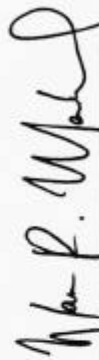
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

2005-10-01 through 2006-09-30

Effective dates




For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:1999

HomeTek Technology Inc.
P.O Box: 13-131, Pan-Chiao City
No. 67-9 Shir Men Rd., Tu Chen City
Taipei Shien 236
TAIWAN
Mr. Grant Huang
Phone: 886-2-22608375 Fax: 886-2-22748013
E-Mail: hometek@ms15.hinet.net

**ELECTROMAGNETIC COMPATIBILITY
AND TELECOMMUNICATIONS**

NVLAP LAB CODE 200331-0

NVLAP Code Designation / Description

Emissions Test Methods:

12/CIS14a	EN 55014-1 (1993), A1 (1997), A2 (1999):
12/CIS14a2	BS EN 55014-1 (2001) with A1 and A2: Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
12/CIS14b1	AS/NZS CISPR 14-1 (2003): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
12/CIS14c	CNS 13783-1: Electromagnetic Compatibility Requirements for household appliances, electric tools and similar apparatus - Part 1: Emissions
12/CIS14d	IEC/CISPR 14-1 (2001) and A1 (2001): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emissions
12/CIS14x	IEC/CISPR 14-1, Ed. 4 (2003): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
12/CIS22	IEC/CISPR 22 (1997) & EN 55022 (1998) + A1(2000): Limits and methods of measurement of radio disturbance characteristics of information technology equipment
12/CIS22a	IEC/CISPR 22 (1993) and EN 55022 (1994): Limits and methods of measurement of radio disturbance characteristics of information technology equipment, Amendment 1 (1995) and Amendment 2 (1996)

2005-10-01 through 2006-09-30

Effective dates

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200331-0

<i>NVLAP Code</i>	<i>Designation / Description</i>
12/CIS22b	CNS 13438 (1997): Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment
12/CIS22c	IEC/CISPR 22, Fourth Edition (2003-04) & EN 55022 (1998): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/FCC15b	ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart B: Unintentional Radiators
12/T51a	AS/NZS CISPR 22 (2004): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/VCCIa	VCCI: Agreement of Voluntary Control Council for Interference by Information Technology Equipment - Technical Requirements: V-3/2004.04

2005-10-01 through 2006-09-30

Effective dates

For the National Institute of Standards and Technology



TÜV Rheinland Group

Certificate

of

Qualification

Witness Test Laboratory

for

HomeTek Technology (ChangAn) Inc.
South of Shatou Industry District
Changan Town,
Dongguan, Guangdong CN

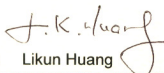
has been authorized to carry out EMC tests by order and under supervision of TÜV Rheinland. It has successfully demonstrated capability to conduct measurement and to process test data according to:

**European and international EMC standards
as listed in the
Scope of Authorization on the attachment to this certificate**

An assessment of the facility was conducted according to the Document "Approval of Test Site" with reference to ISO/IEC 17025 by a TÜV Rheinland auditor

The certificate is valid until the next scheduled inspection
at the discretion of TÜV Rheinland.

TÜV Rheinland (Guangdong) Co., Ltd.
Guangdong, 24 Nov. 2004


Likun Huang


Yuxin Huang

Attachment to
Certificate of Qualification of Witness Test Level

SCOPE OF AUTHORIZATION

for

HomeTek Technology (ChangAn) Inc.
South of Shatou Industry District
Changan Town,
Dongguan, Guangdong CN

European Product-Family/Generic Standards

EN 61000-3-2:1995+A1+A2

EN 55014-1: 2000+A1+A2(with limitations)

EN 55014-2: 1997+A1

EN 55015: 2000+A1+A2 (with limitation)

EN 55022: 1998+A1 (with limitation)

EN 55024: 1998+A1 (with limitation)

EN 61000-3-3:1995+A1

EN 61000-6-1: 2001 (with limitation)

EN 61000-6-3: 2001 (with limitation)

EN 61547: 1996+A1

Basic Standards

CISPR 16-1 (with limitation)

EN/IEC 61000-4-2:1995+A1

EN/IEC 61000-4-4:1995+A1+A2

EN/IEC 61000-4-5:1995+A1

EN/IEC 61000-4-6:1996+A1

EN/IEC 61000-4-11:1994+A1

EN/IEC 61000-4-3:1995+A1+A2

Guangzhou, 24 Nov. 2004



Auditor: Yuxin Huang