



HomeTek Technology Inc.

ADDRESS: No. 67-9, Shir Men Road, Tu Cheng City,  
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NVLAP Lab Code:200331-0

## EMI TEST REPORT FOR

APPLICANT : Smart Home Engineering Corp.  
ADDRESS : 10F., No. 493, Chung-Cheng Rd.,  
Hsin-Tien City, Taipei 231, Taiwan, R. O. C.  
EUT : CAT5 AV Multimedia Transmission  
MODEL NO. : CE01XXX



### MEASUREMENT PROCEDURE USED

AS/NZS CISPR 22: 2004 Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement

PREPARED BY :  
HomeTek Technology Inc.  
No. 67-9, Shir Men Road, Tu Cheng City,  
Taipei Hsien. Taiwan  
Report # : AS6K028



**TABLE OF CONTENTS**..... 2

**CERTIFICATE** ..... 3

**GENERAL INFORMATION**..... 4

**MODIFICATION LIST**..... 5

**CONDUCTED POWER LINE TEST** ..... 6

    1 TEST PROCEDURE..... 6

    2 RESULT OF CONDUCTED EMISSION TEST..... 6

**RADIATED EMISSION TEST**..... 7

    1 TEST INSTRUMENTS & FACILITIES..... 7

    2 TEST PROCEDURE..... 8

    3 TEST SETUP ..... 8

    4 CONFIGURATION OF THE EUT ..... 10

    5 EUT OPERATING CONDITION..... 14

    6 LIMIT OF RADIATED EMISSION CLASS B ..... 14

    7 RESULT OF RADIATED EMISSION TEST..... 15

    8 RADIATED EMISSION TEST DATA (PAGE 1)..... 16

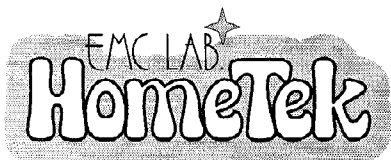
    9 RADIATED EMISSION TEST DATA (PAGE 2)..... 17

**APPENDIX A**

PHOTOS OF TEST CONFIGURATION

**APPENDIX B**

PHOTOS OF EUT



HomeTek Technology Inc.

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NVLAP Lab Code:200331-0

## CERTIFICATE

APPLICANT : Smart Home Engineering Corp.  
ADDRESS : 10F., No. 493, Chung-Cheng Rd.,  
Hsin-Tien City, Taipei 231, Taiwan, R. O. C.  
Receipt Date : 06/15/2006 Final Test Date: 06/26/2006  
EUT : CAT5 AV Multimedia Transmission  
MODEL NO. : CE01XXX

### MEASUREMENT PROCEDURE USED :

AS/NZS CISPR 22: 2004 Information technology equipment – Radio  
disturbance characteristics – Limits and methods of measurement

- 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, NIST OR ANY AGENCY OF THE U. S. GOVERNMENT.
- THE TEST RESULTS ARE TRACEABLE TO THE NATIONAL OR INTERNATIONAL STANDARD.

This test report is a duplicate of original one (report No. AS5F012, issued on 2006, 06, 29),  
applicant and model No. is modified.

APPROVED BY :  11/23/2007

ALAIN LIN / Assistant Manage

## GENERAL INFORMATION

- 1 APPLICANT : Smart Home Engineering Corp.
- 2 ADDRESS : 10F., No. 493, Chung-Cheng Rd.,  
Hsin-Tien City, Taipei 231, Taiwan, R. O. C.
- 3 MANUFACTURER : Smart Home Engineering Corp.
- 4 ADDRESS : 10F., No. 493, Chung-Cheng Rd.,  
Hsin-Tien City, Taipei 231, Taiwan, R. O. C.
- 5 DESCRIPTION OF EUT :
- EUT : CAT5 AV Multimedia Transmission
- Model Number : CE01XXX
- Serial # : N/A

5.1 The difference between series of models CE01XXX are as shown below:

- (1) The first "X" represents different system input.
- (2) The second "X" represent different accessory.
- (3) The third "X" represent different color.

The PCB layout is similar. The worst case of EMI test data were shown in this test report.

6 FEATURES OF EUT :

**Please refer to user manual or product specification.**



**MODIFICATION LIST**

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING :

NO MODIFICATION BY HOMETEK TECHNOLOGY INC.

## **CONDUCTED POWER LINE TEST**

### **1 TEST PROCEDURE**

According to **AS/NZS CISPR 22**.

### **2 RESULT OF CONDUCTED EMISSION TEST**

N/A (Conducted Power Line Test is not applicable to this EUT ( Model : CE01A)).

## 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	<input checked="" type="checkbox"/> OATS 3			JUL/2005
2	EMI TEST RECEIVER	20Hz ~ 26.5GHz	ROHDE & SCHWARZ	ESMI 845442/006	FEB/2006
3	PRE-AMPLIFIER	9KHz ~ 3000MHz	ADVANTEST	BB525C 90081001	OCT/2005
4	ANTENNA (BI-LOG)	25MHz ~ 2GHz	SCHAFFNER	CBL6112B S/N : 2614	JUN/2006
5	Attenuation	50Ω/6dB	JYE BAO	FAT-N (M-F) 001	JUL/2005
6	Ferrite Clamp	30 ~ 1000MHz	ADT	FC18 910030	DEC/2005
7	Ferrite Clamp	30 ~ 1000MHz	HomeTek	HFC 001	DEC/2005
8	Cable	10m	SUHNER	RG214/U OS3-003	DEC/2005
9	Cable	14m	BELDEN	9913 OS3-001	DEC/2005
10	EMI 32 (software)	N/A	AUDIX	19991013-0923	N/A

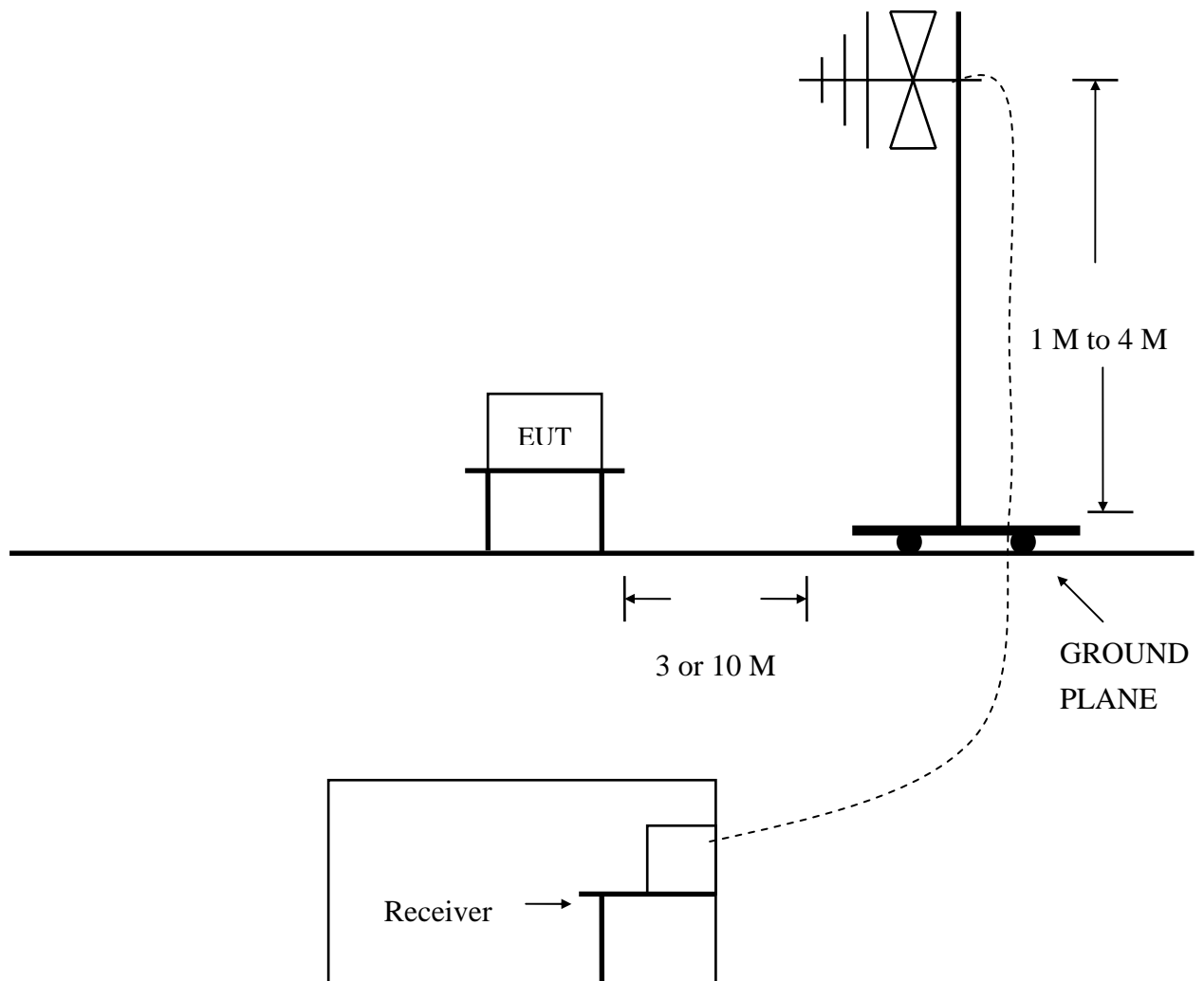
Note : Items 1 ~ 9 were calibrated within period of 1 year.

## 2 TEST PROCEDURE

- 2.1 The EUT was test according to **AS/NZS CISPR 22**.
- 2.2 The radiated test was performed at HomeTek Lab's Open Site 3.
- 2.3 The frequency range from 30 MHz to 1 GHz, the measurement were made at 10 meters, with a BI-log antenna.

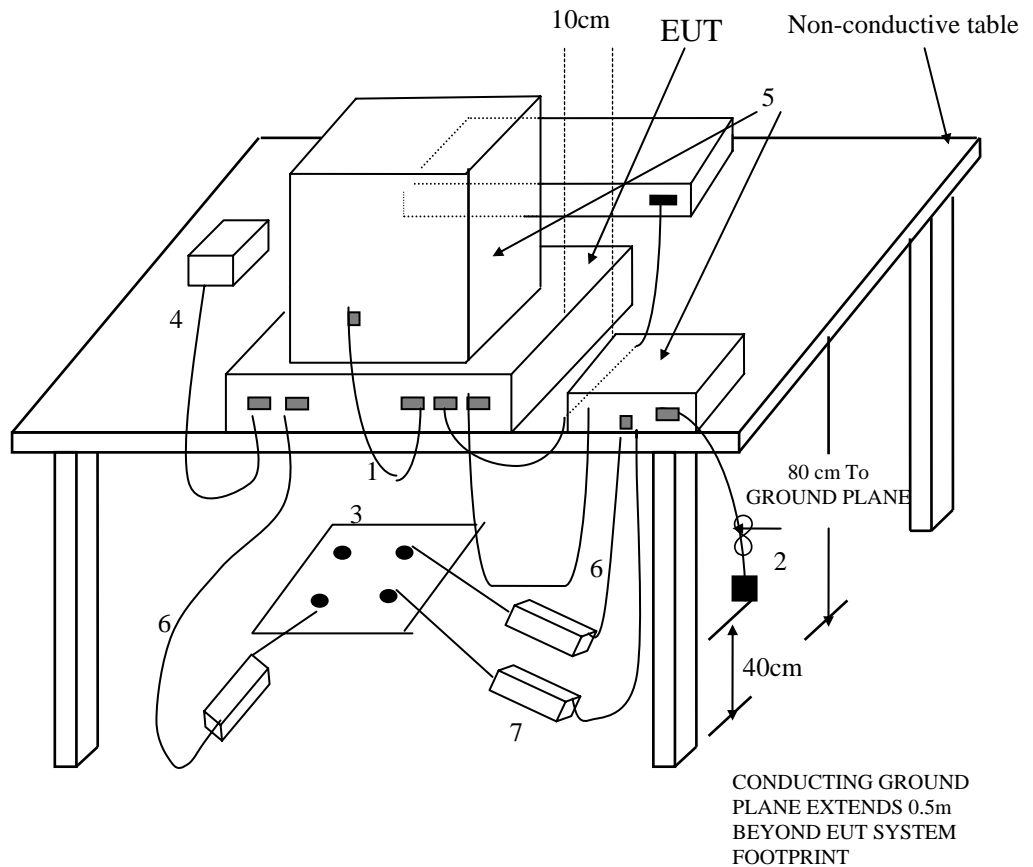
## 3 TEST SETUP

### 3.1 TEST SETUP OF OPEN SITE.



### 3.2 TEST SETUP OF EUT

ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9kHz TO 40 GHz AS  
NZS CISPR 22



(Details for setup configuration, please refer to appendix A.)

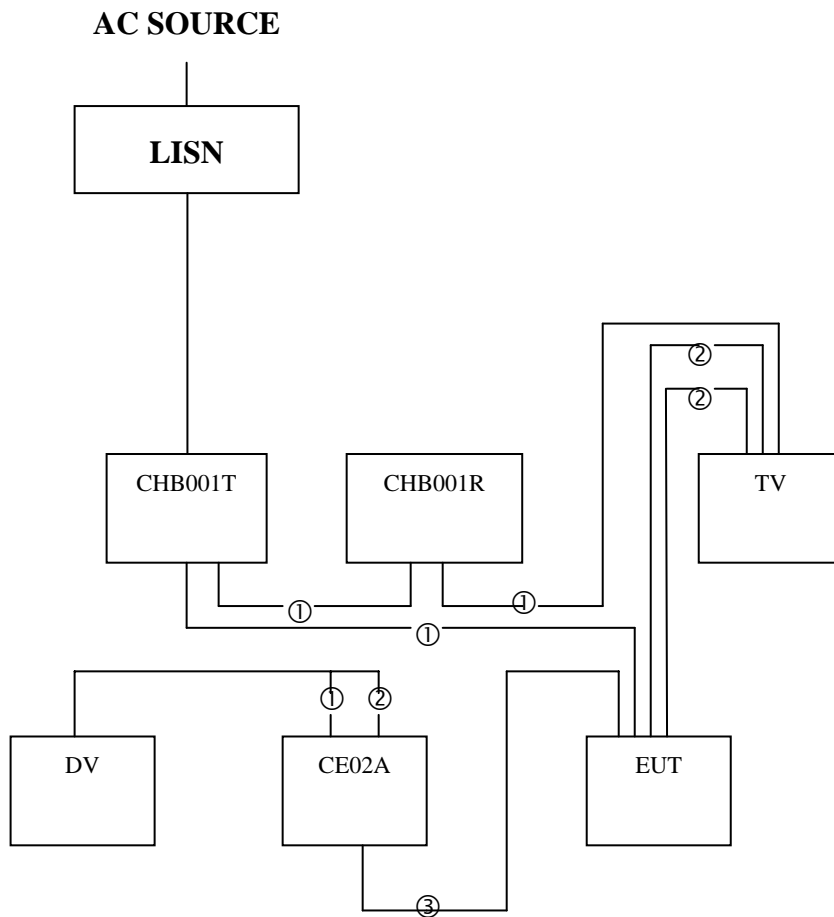
**LEGEND:**

1. If cables, which hang closer than 40 cm to the horizontal metal ground plane cannot be shortened to the appropriate length, the excess shall be folded back and forth forming a bundle 30 cm to 40 cm long.
2. The end of I/O signal cables which are not connected to a peripheral may be terminated, if required for proper operation using correct terminating impedance.
3. Mains junction box(es) shall be flush with, and bonded directly to, the metal ground plane.  
NOTE if used, the AMN shall be installed under the horizontal metal ground plane.
4. Cables of hand-operated devices such as keyboards, mouses, etc. shall be placed as for normal usage.
5. Peripherals shall be placed at a distance of 10 cm from each other and from the controller, except for the monitor which, if for an acceptable installation practice, shall be placed directly on top of the controller.
6. Mains cables, telephone lines or other connections to auxiliary equipment located outside the test area shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.
7. Ferrite clamps or ferrite tubes with similar characteristics (as defined in 10.4). No more than one cable per clamp.

**Test Configuration  
Tabletop Equipment Radiated Emission**

## 4 CONFIGURATION OF THE EUT

The EUT was configured according to **AS/NZS CISPR 22**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device) :



- ① Video Cable
- ② Audio Cable
- ③ RJ-45 Cable

Figure 1



4.1 EUT

EUT Type : Proto Type Engineer Type Mass Production  
Condition when received : Good Damage : \_\_\_\_\_  
Device : CAT5 AV Multimedia Transmission  
Applicant : Smart Home Engineering Corp.  
Manufacturer : Smart Home Engineering Corp.  
Model Number : CE01XXX  
Serial Number : N/A  
FCC ID : N/A  
RJ-45 Port : Plastic Type  
Video Output Port : Metal Type  
Audio Port x 2 : Metal Type  
Power Cord : N/A  
Power Supply Type : N/A

4.2 PERIPHERALS

DV

Manufacturer : SONY  
Model Number : DCR-PC110  
Serial Number : 1158142  
FCC ID : FCC DoC  
Data Cable 1 : Shielded, 1.8 m, Connect to the Video port  
Data Cable 2 : Shielded, 1.8 m, Connect to the Audio port  
Power Cord : Un-Shielded, 1.8 m



TV

Manufacturer : TCL  
Model Number : 1419A  
Serial Number : N/A  
FCC ID : N/A  
Data Cable 1 : Shielded, 1.0 m, Connect to the Video port  
Data Cable 2 x 2 : Shielded, 1.5 m, Connect to the Audio port  
Power Cord : Un-Shielded, 1.8 m

CAT5 AV Multimedia Transmission

Manufacturer : Smart Home Engineering Corp.  
Model Number : CE02A  
Serial Number : N/A  
FCC ID : N/A  
Data Cable 1 : Shielded, 1.8 m, Connect to the Video port  
Data Cable 2 : Shielded, 1.8 m, Connect to the Audio port  
Data Cable 3 : Un-Shielded, 1.0 m, Connect to the RJ-45 port  
Power Cord : N/A

Video Interference Blocker 1

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : CHB001T  
Serial Number : N/A  
FCC ID : N/A  
Data Cable x 2 : Shielded, 1.0 m, Connect to the Video port  
Power Cord : N/A



Video Interference Blocker 2

Manufacturer : SMART CABLING & TRANSMISSION CORP.

Model Number : CHB001R

Serial Number : N/A

FCC ID : N/A

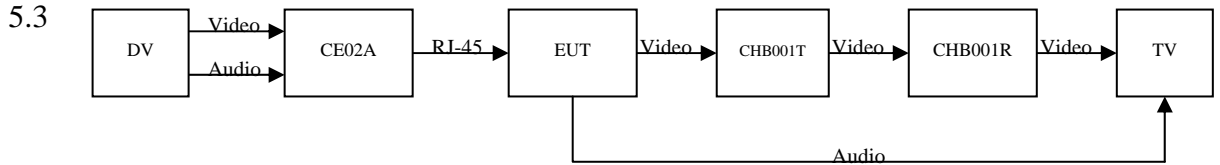
Data Cable x 2 : Un-Shielded, 1.0 m, Connect to the Video port

Power Cord : N/A

4.3 REMARK : N/A

## 5 EUT OPERATING CONDITION

- 5.1 The frequency of the EUT is none.
- 5.2 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 3.



- 5.4 TV receives DV's video signal (color bar) through CHB001T, CHB001R, EUT, CE02A via video cable or RJ-45 cable.
- 5.5 TV receives DV's audio signal (1KHz audio) through EUT and CE02A via audio cable or RJ-45 cable.
- 5.6 TV display color bar and measure the emission noise.
- 5.7 The photos of radiated test configuration, please refer to appendix A.**

## 6 LIMIT OF RADIATED EMISSION CLASS B

### AS/NZS CISPR 22

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

- 6.1 The tighter limit shall apply at the edge between two frequency bands.
- 6.2 Measurement distance in meters between the measuring instrument antenna and the closed point of any part of the EUT or peripherals.

## 7 RESULT OF RADIATED EMISSION TEST

- 7.1 The frequency range from 30 MHz to 1 GHz was investigated.
- 7.2 All readings below or equal 1 GHz are quasi-peak or peak values with resolution bandwidth of 120 KHz.
- 7.3 The measurements were made at 10 meters of HomeTek Lab's open site 3.
- 7.4 Temperature : 31 °C, Humidity : 51 % RH.
- 7.5 Uncertainty in radiated emission measurement :  $\pm 4.18\text{dB}$ .
- 7.6 The radiated emission result were gained by the following method :
- Level = Reading Level + Probe Factor (Antenna Factor) + Cable Loss – Preamp Factor
- Over Limit = Level – Limit Line
- 7.7 Result : **PASSED**



# 8 RADIATED EMISSION TEST DATA (PAGE 1)

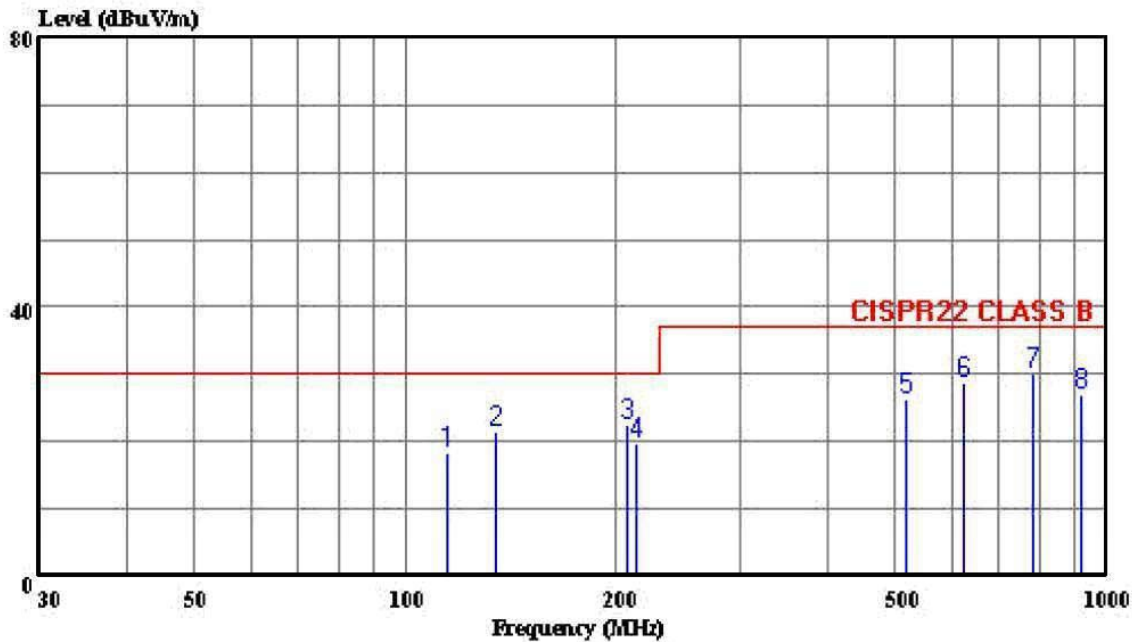


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Fax: 02-22748013

Data#: 4 File#: 6K028.EMI

Date: 2006-06-26 Time: 19:54:44



Trace:

Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2614 060506 HORIZONTAL  
cut : CAT5 AV Multimedia Transmission  
power: N/A  
memo : CE01A

Page: 1

	Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Remark
	MHz	dBuV/m	dBuV/m	dB	Level	Loss	Factor	
					dBuV	dB	dB	
1	114.993	18.18	30.00	-11.82	30.23	12.25	1.46	25.76 Peak
2	134.000	21.52	30.00	-8.48	34.21	11.46	1.58	25.72 Peak
3	206.480	22.44	30.00	-7.56	36.95	9.10	2.01	25.62 Peak
4	214.000	19.86	30.00	-10.14	34.33	9.10	2.04	25.61 Peak
5	518.553	26.45	37.00	-10.55	30.07	17.87	3.41	24.89 Peak
6	627.627	28.82	37.00	-8.18	30.65	18.77	3.81	24.40 Peak
7	782.573	30.01	37.00	-6.99	29.89	19.70	4.26	23.84 Peak
8	917.280	26.93	37.00	-10.07	24.65	20.50	5.15	23.36 Peak



9 RADIATED EMISSION TEST DATA (PAGE 2)

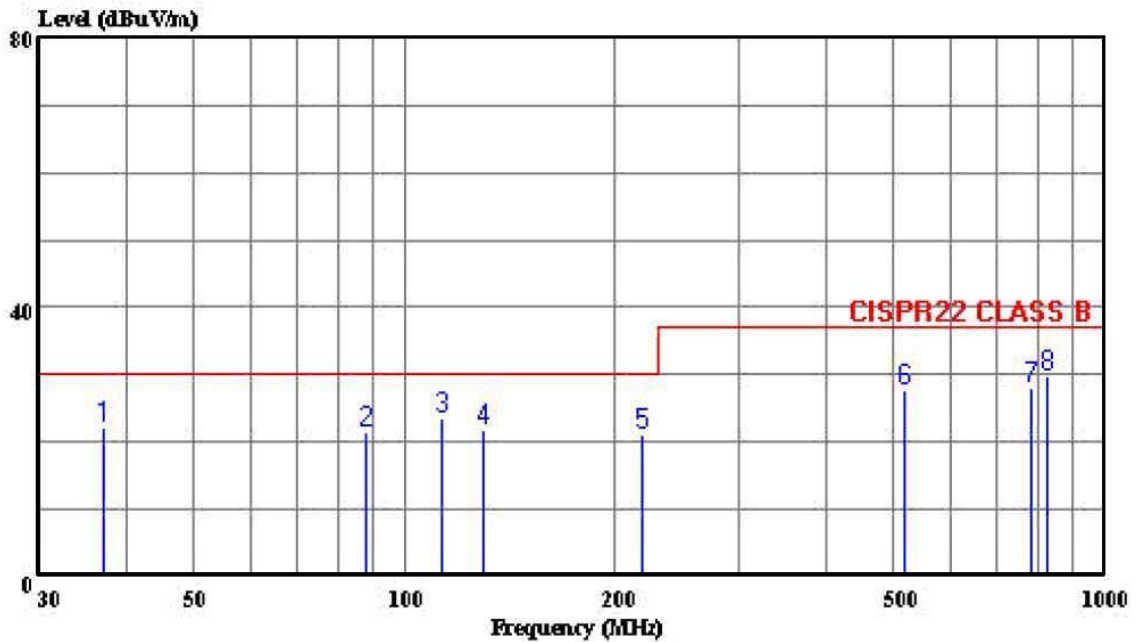


HomeTek Technology Inc.

No 67-9, Shi-Men Rd;, Tu-Chen City,  
 Taipei County, Taiwan R.O.C.  
 Tel: 02-22608375  
 Fax: 02-22748013

Data#: 3 File#: 6K028.EMI

Date: 2006-06-26 Time: 19:01:52



Trace:

Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2614 060506 VERTICAL  
 out : CAT5 AV Multimedia Transmission  
 power: N/A  
 memo : CE01A

Page: 1

	Limit	Over	ReadAntenna	Cable	Preamp		
Freq	Level	Line	Level	Loss	Factor	Remark	
MHz	dBuV/m	dBuV/m	dB	dB	dB		
1	37.000	22.18	30.00	-7.82	31.70	15.62	0.82 25.96 Peak
2	88.000	21.31	30.00	-8.69	37.21	8.65	1.27 25.82 Peak
3	113.000	23.60	30.00	-6.40	35.73	12.18	1.45 25.76 Peak
4	129.313	21.90	30.00	-8.10	34.54	11.54	1.55 25.73 Peak
5	219.000	21.25	30.00	-8.75	35.63	9.17	2.06 25.60 Peak
6	515.680	27.67	37.00	-9.33	31.42	17.76	3.39 24.91 Peak
7	782.033	27.99	37.00	-9.01	27.87	19.70	4.26 23.84 Peak
8	827.687	29.61	37.00	-7.39	28.79	20.04	4.51 23.72 Peak



HomeTek Technology Inc.

## **Appendix A**

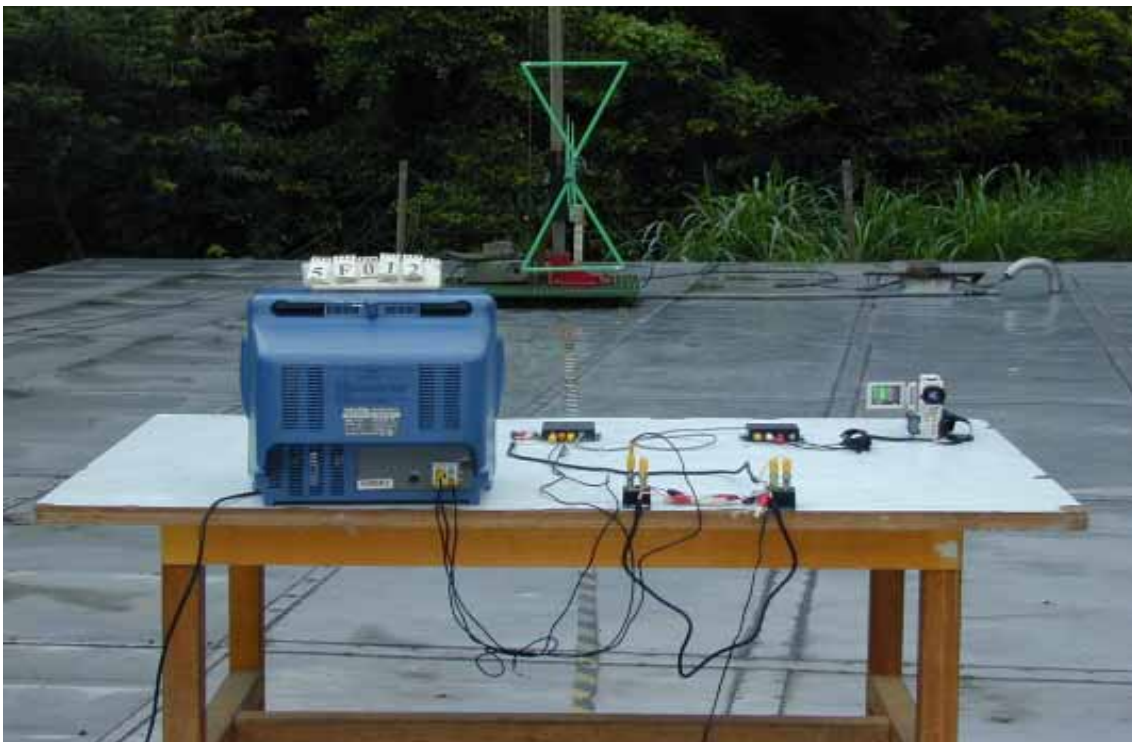
# **PHOTOS OF TEST CONFIGURATION**

## PHOTO OF RADIATED EMISSION TEST

Model : CE01A



Front View



Rear View



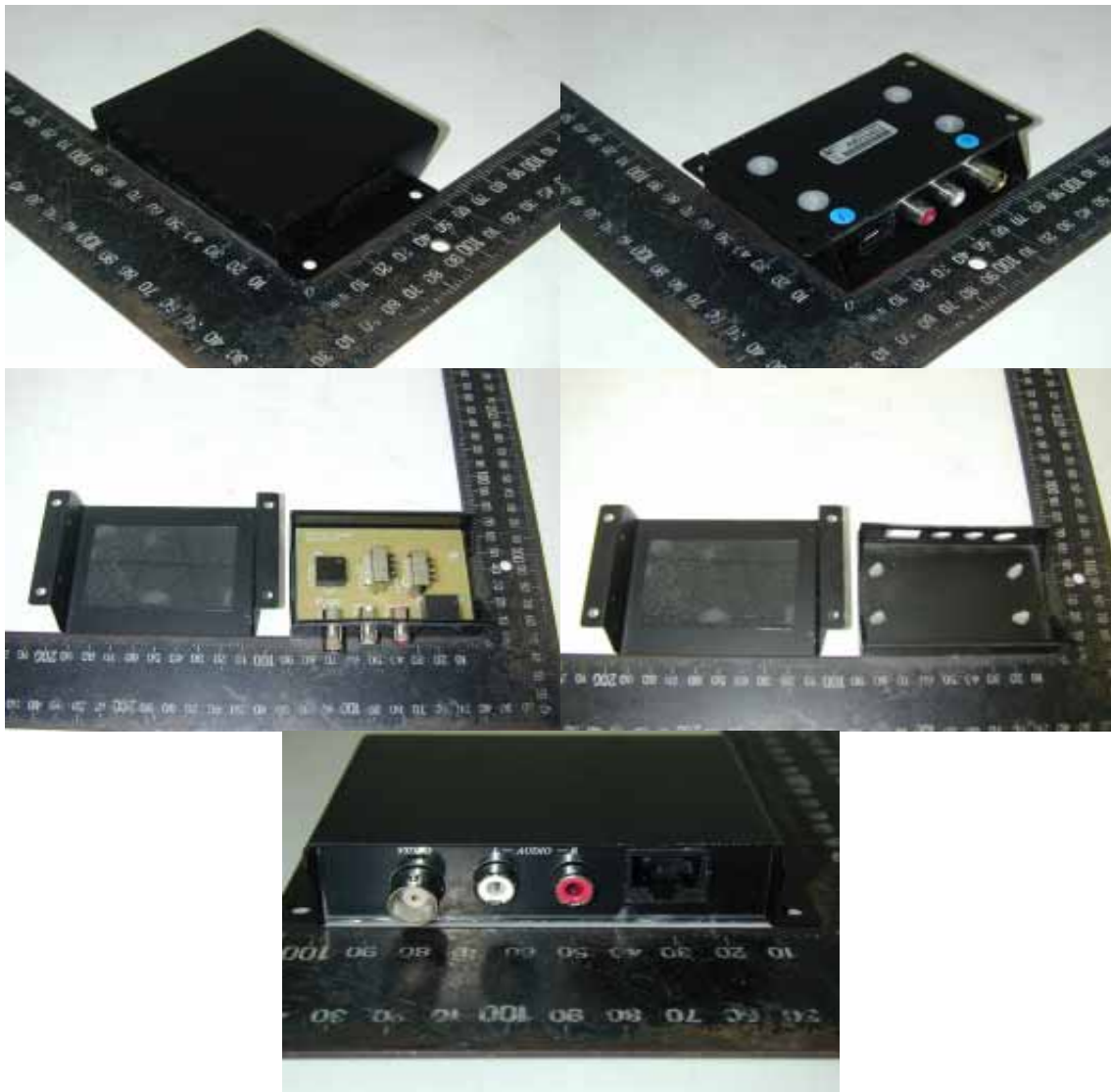
HomeTek Technology Inc.

## **Appendix B**

# **PHOTOS OF EUT**

## PHOTO OF EUT

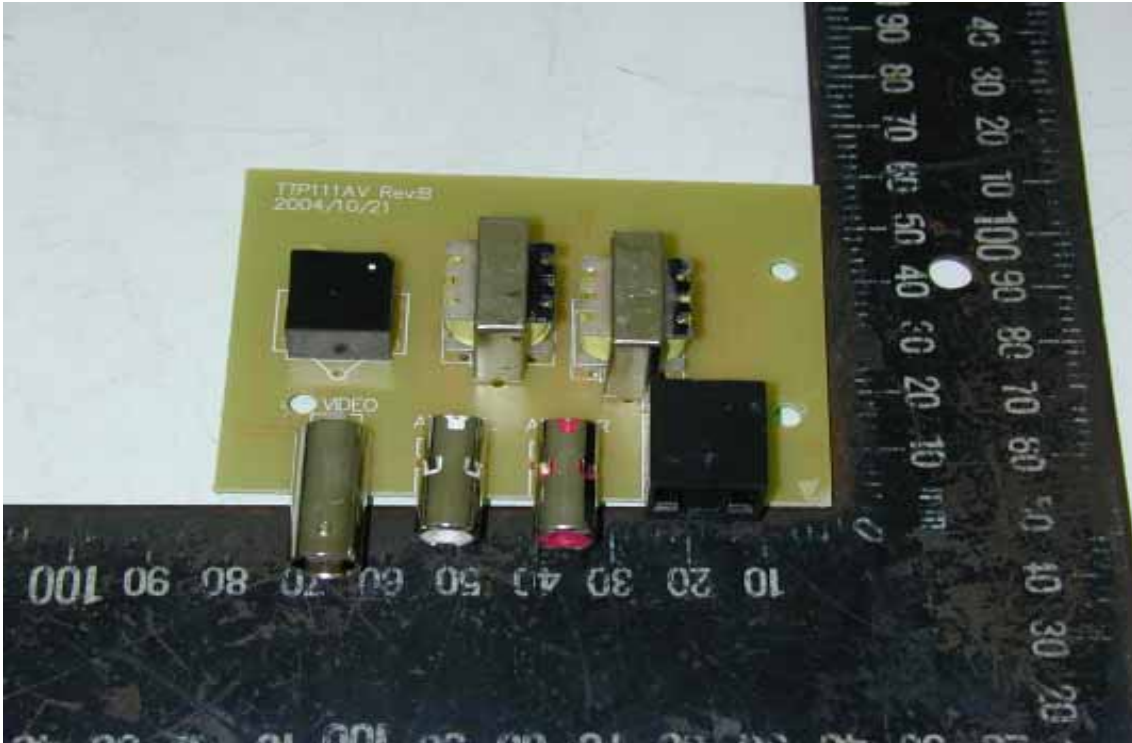
Model : CE01A



Full View of EUT

## PHOTO OF EUT

Model : CE01A



Component Side of Main Board



Solder Side of Main Board

# Declaration of Conformity

Responsible Party Name :

Address :

Phone No :

Fax No :

Declares under our sole responsibility that the product

Product Name : CAT5 AV Multimedia Transmission

Model No. : CE01XXX

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

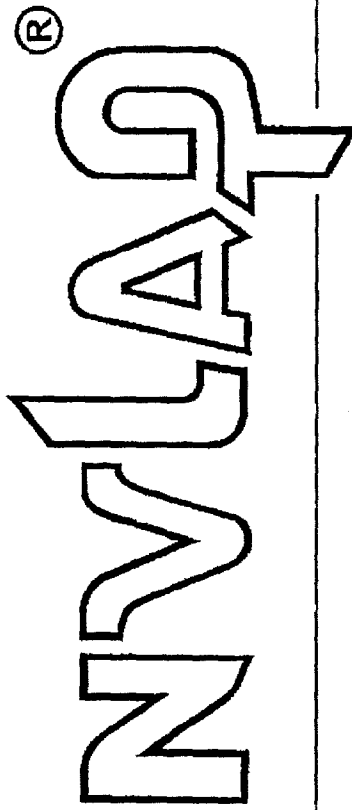
AS/NZS CISPR 22 (2004) : Electromagnetic Interference  
– Limits and Methods of Measurement of Information Technology Equipment

Representative Person's Name : \_\_\_\_\_

Signature : \_\_\_\_\_

Date : \_\_\_\_\_

United States Department of Commerce  
National Institute of Standards and Technology



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## Certificate of Accreditation to ISO/IEC 17025:2005

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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  
NVLAP accreditation documents and all requirements of ISO/IEC 17025:2005.  
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:

**ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS**

2006-10-01 through 2007-09-30

Effective dates



*Dally A. Bruce*  
For the National Institute of Standards and Technology



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**HomeTek Technology Inc.**  
P.O Box: 13-131, Pan-Chiao City  
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**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

2006-10-01 through 2007-09-30

*Effective dates*

*Sally A. Bruce*  
For the National Institute of Standards and Technology



**National Voluntary  
Laboratory Accreditation Program**



**ELECTROMAGNETIC COMPATIBILITY  
AND TELECOMMUNICATIONS**

**NVLAP LAB CODE 200331-0**

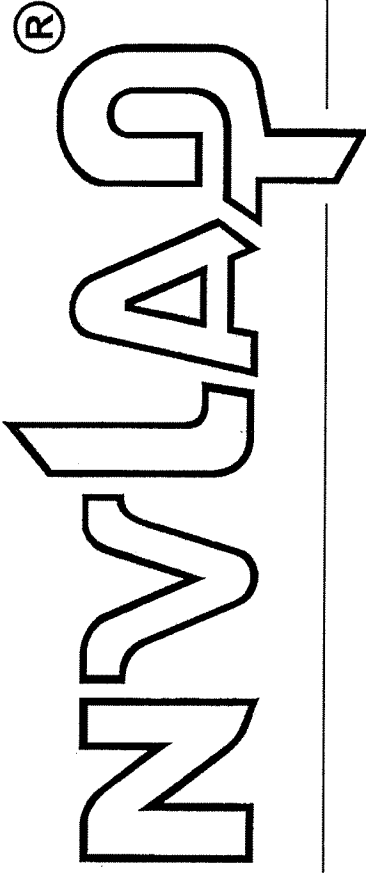
<i>NVLAP Code</i>	<i>Designation / Description</i>
12/CIS22a	IEC/CISPR 22 (1993) and EN 55022 (1994): Limits and methods of measurement of radio disturbance characteristics of information technology equipment, Amendment 1 (1995) and Amendment 2 (1996)
12/CIS22b	CNS 13438 (1997): Limits and Methods of 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-3/2005.04

2006-10-01 through 2007-09-30

*Effective dates*

*For the National Institute of Standards and Technology*

United States Department of Commerce  
National Institute of Standards and Technology



---

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NVLAP LAB CODE: 200331-0

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Taipei Shien 236

TAIWAN

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listed on the Scope of Accreditation, for:

**ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).*

2007-10-01 through 2008-09-30

Effective dates



*Jolly S. Buce*

For the National Institute of Standards and Technology



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

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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
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2007-10-01 through 2008-09-30

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# National Voluntary Laboratory Accreditation Program



## ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200331-0

<i>NVLAP Code</i>	<i>Designation / Description</i>
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)
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-3/2005.04

2007-10-01 through 2008-09-30

*Effective dates*

*For the National Institute of Standards and Technology*