



HomeTek Technology Inc.

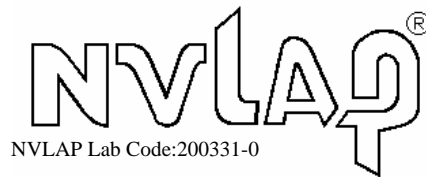
ADDRESS: No. 67-9, Shir Men Road, Tu Cheng City,
Taipei Hsien, Taiwan

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

E - mail : hometek@ms15.hinet.net

FCC 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 : 1 input 9 output video & audio CAT5 distribution
amplifier
MODEL NO. : HE09XXX, CE09XXX, YE09XXX



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 22-1997 AND FCC / ANSI C63.4-2003

PREPARED BY :

HomeTek Technology Inc.

No. 67-9, Shir Men Road, Tu Cheng City,

Taipei Hsien. Taiwan

Report # : FD6K034



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SAMPLE OF FCC DOC LABEL 1 31

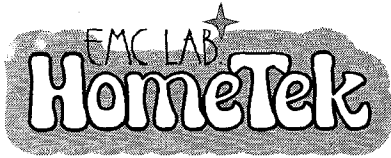
SAMPLE OF FCC DOC LABEL 2 31

APPENDIX A

PHOTOS OF TEST CONFIGURATION

APPENDIX B

PHOTOS OF EUT



HomeTek Technology Inc.

ADDRESS: No. 67-9, Shir Men Road, Tu Cheng City, Taipei Hsien, Taiwan
PHONE : 886-2-22608375 FAX : 886-2-22748013
E - mail : hometek@ms15.hinet.net



CERTIFICATION for FCC Part 15, Subpart B Class B

APPLICANT : Smart Home Engineering Corp.
ADDRESS : 10F., No. 493, Chung-Cheng Rd., Hsin-Tien City, Taipei 231, Taiwan, R. O. C.
Receipt Date : 05/15/2007 Final Test Date: 05/18/2007
EUT : 1 input 9 output video & audio CAT5 distribution amplifier
MODEL NO. : HE09XXX, CE09XXX, YE09XXX

MEASUREMENT PROCEDURE USED : PART 15 SUBPART B FCC RULES AND CISPR 22-1997 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, 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. FD6E016, issued on 2007, 05, 30), applicant and model No. is modified.

APPROVED BY : [Signature] 12/10/2007

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 : 1 input 9 output video & audio CAT5
distribution amplifier
- FCC ID : N/A
- Model Number : HE09XXX, CE09XXX, YE09XXX
- Serial # : N/A

5.1 The difference among series of models HE09XXX, CE09XXX and YE09XXX are different in OEM manufacture and other as shown below:

- (1) The first and second “X” represents different system input.
- (2) The third “X” represent different accessory.

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 INSTRUMENTS & FACILITIES

The following test Instruments was used during the conducted test :

Item	Instruments/ Facilities	Specification	Manufacturer	Model # S/N	Date Of Cal.
1	EMI Receiver	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESHS 30 844827/007	FEB/2007
2	LISN (for EUT)	50Ω/50uH/100A 150KHz ~ 30MHz	SCHWARZ BECK	NNLK 8121 8121370	OCT/2006
3	LISN (for Support Unit)	50Ω/50uH/10A 9KHz ~ 30MHz	ROHDE & SCHWARZ	ESH3-Z5 846128/007	MAR/2007
4	Terminator	50Ω	N/A	N/A	NOV/2006
5	Attenuation	50Ω/10dB	Mini-Circuit	NAT-10 AT-002	JUL/2006
6	Cable	5.4m	SUHNER	RG-223 CON2-002	AUG/2006
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

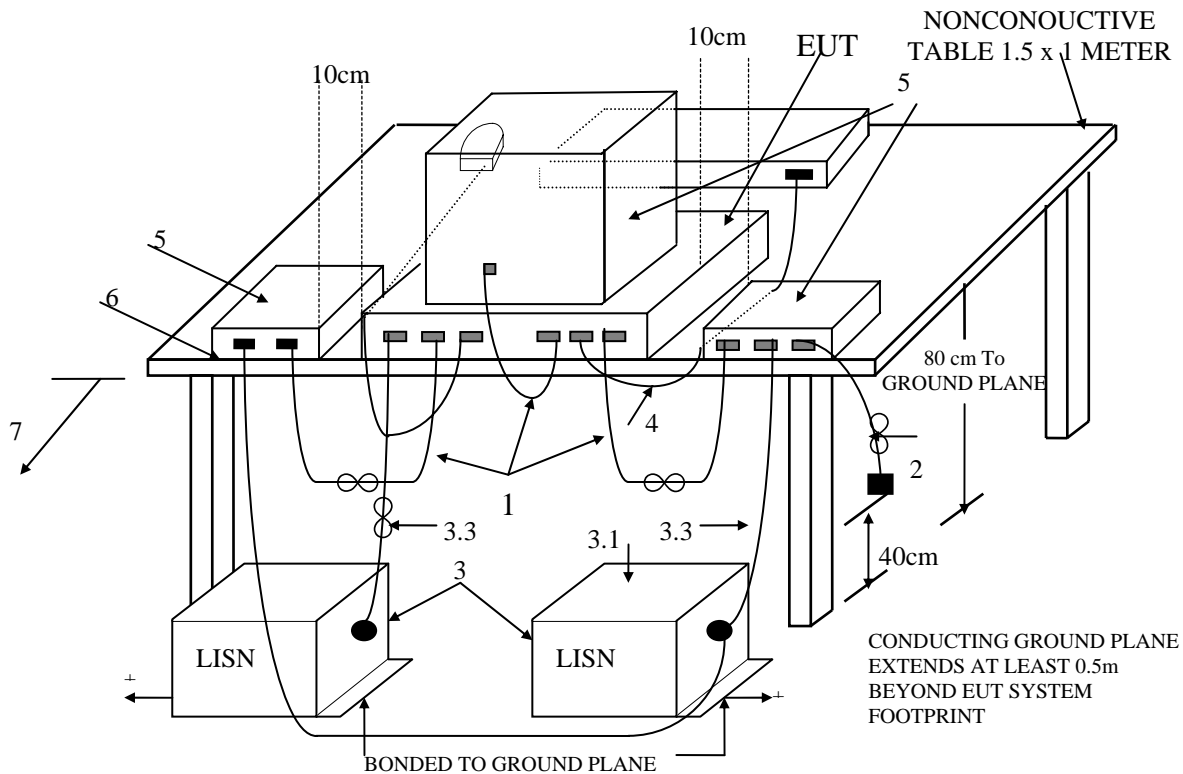
- 2.1 The EUT was tested according to **ANSI C63.4 – 2003 Section 5.2, 7.1, 7.2 & CISPR 22 - 1997 & C18-01-12 (HomeTek test procedure)**.
- 2.2 The EUT was placed 0.4 meter from the conducting wall of shielding room and kept at least 0.8 meter from any other grounded conducting surface.
- 2.3 The frequency range form 0.15 MHz to 30 MHz was investigated.
- 2.4 The LISN used was 50 Ohm / 50 uHenry as specified by Section 4.1.2 of **ANSI C63.4 - 2003**.
- 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 Typical : Setup Of Conducted Test

ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9kHz TO 40 GHz

ANSI
C63.4-2003



+LISNs may have to be moved to the side to meet 3.3 below.

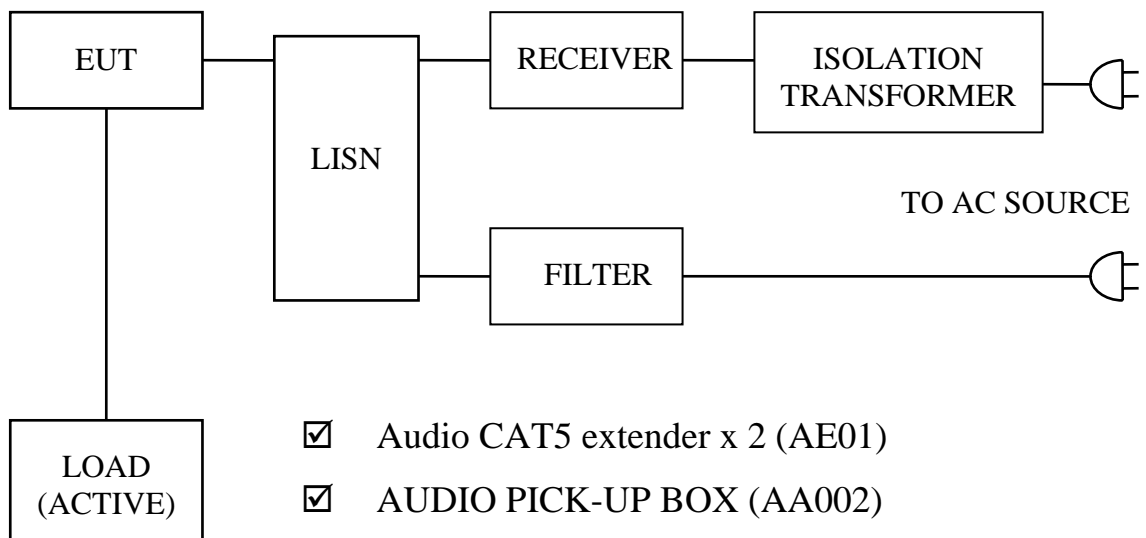
(Details for setup configuration, please refer to appendix A.)

LEGEND:

1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 to 40 cm long, hanging approximately in the middle between ground plane and table.
2. I/O cables that are connected to a peripheral shall be bundled in center. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1m.
3. EUT connected to one LISN. Unused LISN connectors shall be terminated in 50 Ω. LISN can be placed on top of, or immediately beneath, ground plane.
 - 3.1 All other equipment powered from second LISN.
 - 3.2 Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
 - 3.3 LISN at least 80 cm from nearest part of EUT chassis.
4. Cables of hand-operated devices, such as keyboards, mice, etc., have to be placed as close as possible to the host.
5. Non-EUT components being tested.
6. Rear of EUT, including peripherals, shall be all aligned and flush with rear of tabletop.
7. Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the floor ground plane (see 5.2).

**Test Configuration
Tabletop Equipment Conducted Emission**

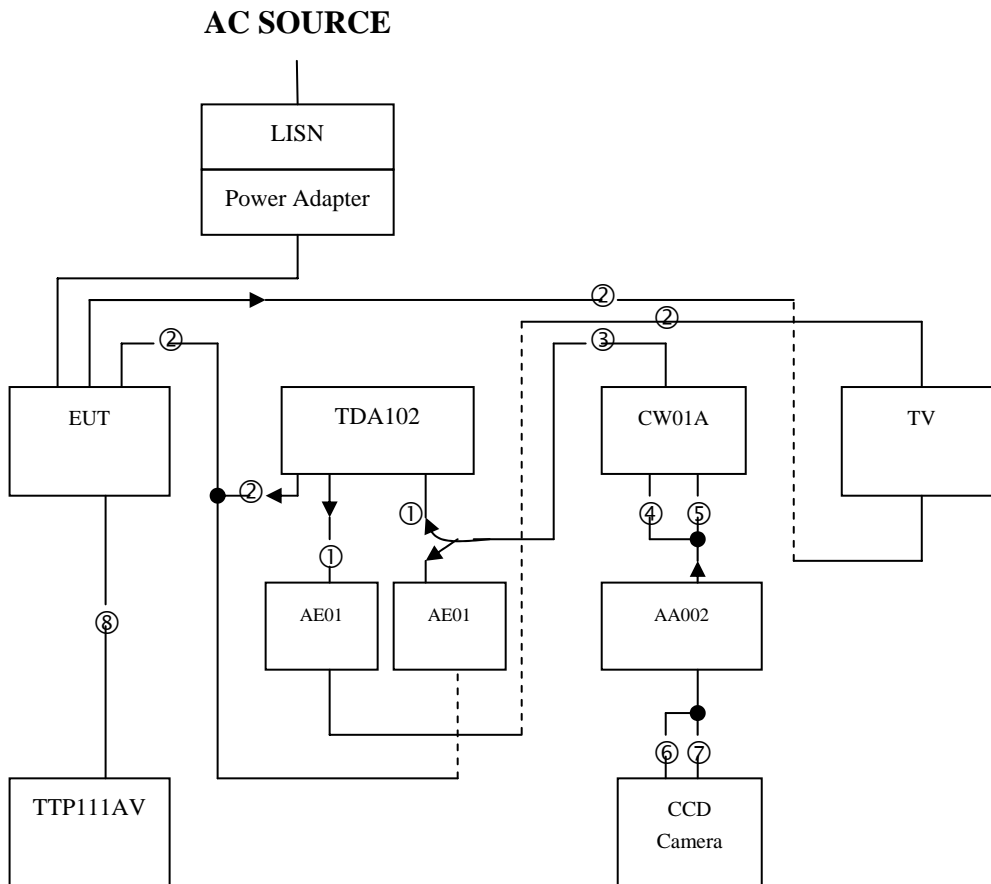
3.2 Block Diagram Of Conducted Test



- Audio CAT5 extender x 2 (AE01)
- AUDIO PICK-UP BOX (AA002)
- Twisted Pair 1 input to 2 Output Video Distributor (TDA102)
- Wall Plate Audio & Video CAT5 Extender (CW01A)
- Video & Audio Transceiver (TTP111AV)
- CCD Camera
- TV
- Power Adapter

4 CONFIGURATION OF THE EUT

The EUT was configured according to **ANSI C63.4 - 2003 & CISPR 22 - 1997**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device) :



- ① Data Cable
- ② AV Cable
- ③ RJ-45 Cable
- ④ Audio Out Cable
- ⑤ Video Out Cable
- ⑥ Video In Cable
- ⑦ Power Cable
- ⑧ RJ-45 Cable x 9

Figure 1



4.1 EUT

EUT Type : Proto Type Engineer Type Mass Production
Condition when received : Good Damage : _____
Device : 1 input 9 output video & audio CAT5 distribution amplifier
Applicant : Smart Home Engineering Corp.
Manufacturer : Smart Home Engineering Corp.
Model Number : HE09XXX, CE09XXX, YE09XXX
Serial Number : N/A
FCC ID : N/A
Audio In Port x 2 : Metal Type Connector
Video In Port : Metal Type Connector
Audio Out Port x 2 : Metal Type Connector
Video Out Port : Metal Type Connector
RJ-45 Port x 9 : Plastic Type Connector
Power Cord (AC) : 2 pin
Power Cord (DC) : Un-Shielded, 1.8 m, 2 pin
Power Supply Type : Linear Adapter

4.2 PERIPHERALS

AUDIO PICK-UP BOX

Manufacturer : Smart Home Engineering Corp.
Model Number : AA002
Serial Number : N/A
FCC ID : N/A
Data Cable 1 : Un-Shielded, 0.5 m, Connected to the AV Out port
Data Cable 2 : Un-Shielded, 0.3 m, Connected to the Video port
Data Cable 3 : Un-Shielded, 0.5 m, Connected to the Power Output port
Power Cord : N/A



HomeTek Technology Inc.

Audio CAT5 extender x 2

Manufacturer : Smart Home Engineering Corp.
Model Number : AE01
Serial Number : N/A
FCC ID : N/A
Data Cable 1 : Un-Shielded, 0.1 m, Connected to the Video In port
Data Cable 2 : Un-Shielded, 0.1 m, Connected to the Video Out port
Data Cable 3 : Shielded, 1.6 m, Connected to the AV In port
Data Cable 4 : Shielded, 1.6 m, Connected to the AV Out port
Power Cord : N/A

Twisted Pair 1 input to 2 Output Video Distributor

Manufacturer : SMART CABLING & TRANSMISSION CORP.
Model Number : TDA102
Serial Number : N/A
FCC ID : N/A
Data Cable 1 : Un-Shielded, 0.1 m, Connected to the Video In port
Data Cable 2 : Un-Shielded, 0.1 m, Connected to the Video Out port
Data Cable 3 : Shielded, 1.6 m, Connected to the Video Out port
Power Cord & Adaptor : Un-Shielded, 1.8 m

Wall Plate Audio & Video CAT5 Extender

Manufacturer : Smart Home Engineering Corp.
Model Number : CW01A
Serial Number : N/A
FCC ID : N/A
Data Cable 1 x 2 : Un-Shielded, 0.5 m, Connected to the AV Out port
Data Cable 2 : Un-Shielded, 0.3 m, Connected to the RJ-45 port
Power Cord (DC) : N/A



Video & Audio Transceiver

Manufacturer : SMART CABLING & TRANSMISSION CORP.
Model Number : TTP111AV
Serial Number : N/A
FCC ID : N/A
Data Cable x 9 : Un-Shielded, 10 m, Connected to the RJ-45 port
Power Cord (DC) : N/A

CCD Camera

Manufacturer : Comedar
Model Number : CM-930
Serial Number : N/A
FCC ID : N/A
Data Cable 1 : Un-Shielded, 0.3 m, Connected to the Video port
Data Cable 2 : Un-Shielded, 0.5 m, Connected to the Power Output port
Power Cord : N/A

TV

Manufacturer : TCL
Model Number : 1419A
Serial Number : 010019502035F0039
FCC ID : N/A
Data Cable 1 : Shielded, 1.2 m, Connected to the AV Out port
Data Cable 2 : Shielded, 1.6 m, Connected to the AV Out port
Power Cord (DC) : Un-Shielded, 1.8 m



Power Adapter

Manufacturer	: YUH AN
Model Number	: ADP2411-1
Serial Number	: N/A
FCC ID	: N/A
Data Cable	: N/A
Power Cord (DC)	: Un-Shielded, 1.8 m

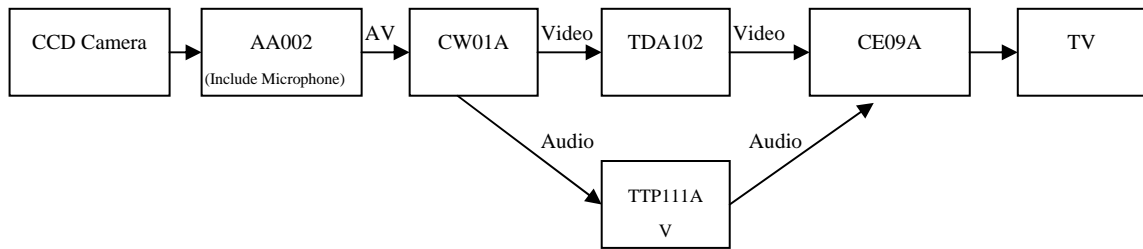
4.3 REMARK : N/A

5 EUT OPERATING CONDITION

5.1 The frequency of the EUT is none.

5.2 Configure the EUT according to the **ANSI C63.4 - 2003 & CISPR 22 - 1997**.

5.3



5.4 CCD camera & AA002 send audio and video signals to CW01A, TTP111AV, TDA102, CE09A, and CW01A, TTP111AV, TDA102, CE09A change audio and video signals.

5.5 Then has changed audio and video signals send to TV display.

5.6 Measure the maximum emission noise.

5.7 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

6.1 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 : 26 °C, Humidity : 60 % 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**

8 CONDUCTED POWER LINE TEST DATA (PAGE 1)

HomeTek EMC LAB. TEL :886-2-22608375

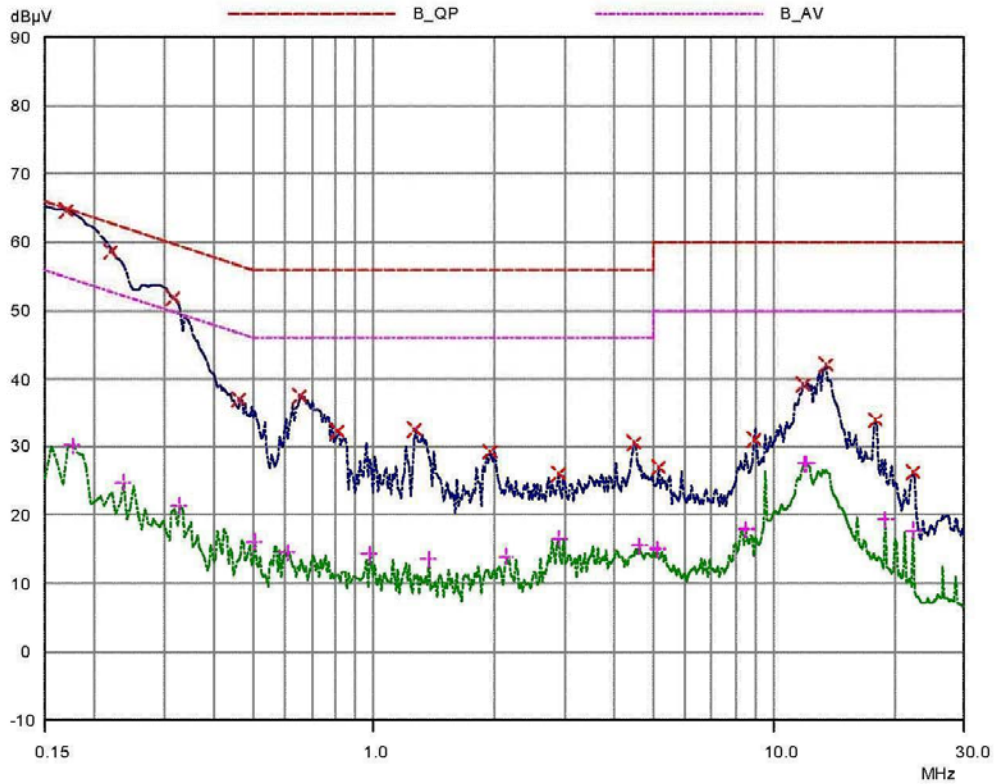
15 May 2007 14:03

CONDUCTED EMISSIONS

EUT: 1 input 9 output video & audio CAT5 distribution amplifier
 Manuf: 6E016
 Op Cond: LINE 1
 Operator: JASON
 Test Spec: FOR CISPR22 CLASS B
 Comment: 110V/60Hz
 CE09A

Result File:

Prescan Measurement: Detectors: X PK / + AV
 Meas Time: see scan settings
 Subranges: 16
 Acc Margin: 55 dB





9 CONDUCTED POWER LINE TEST DATA (PAGE 2)

HomeTek EMC LAB. TEL :886-2-22608375

15 May 2007 14:03

CONDUCTED EMISSIONS

EUT: 1 input 9 output video & audio CAT5 distribution amplifier
 Manuf: 6E016
 Op Cond: LINE 1
 Operator: JASON
 Test Spec: FOR CISPR22 CLASS B
 Comment: 110V/60Hz
 CE09A

Result File:

Prescan Measurement: Detectors: X PK / + AV
 Meas Time: see scan settings
 Subranges: 16
 Acc Margin: 55 dB

Peak Search Results

Frequency MHz	PK Level dBµV	PK Limit dBµV	PK Delta dB
0.17	64.66	64.96	0.30
0.22	58.77	62.82	4.05
0.315	51.85	59.84	7.99
0.46	37.09	56.69	19.60
0.655	37.59	56.00	18.41
0.81	32.30	56.00	23.70
1.27	32.54	56.00	23.46
1.93	29.25	56.00	26.75
2.89	26.04	56.00	29.96
4.44	30.55	56.00	25.45
5.13	27.07	60.00	32.93
8.9	30.99	60.00	29.01
11.77	39.14	60.00	20.86
13.43	42.21	60.00	17.79
17.94	33.99	60.00	26.01
22.31	26.17	60.00	33.83

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.175	30.18	54.72	24.54
0.235	24.79	52.27	27.48
0.325	21.33	49.58	28.25
0.5	16.06	46.00	29.94
0.605	14.54	46.00	31.46
0.97	14.28	46.00	31.72
1.36	13.59	46.00	32.41
2.14	13.89	46.00	32.11
2.89	16.54	46.00	29.46
4.58	15.47	46.00	30.53
5.08	15.04	50.00	34.96
8.5	17.84	50.00	32.16
11.92	27.55	50.00	22.45
12.07	27.47	50.00	22.53
18.94	19.28	50.00	30.72
22.25	17.77	50.00	32.23

* limit exceeded

10 CONDUCTED POWER LINE TEST DATA (PAGE 3)

HomeTek EMC LAB. TEL :886-2-22608375

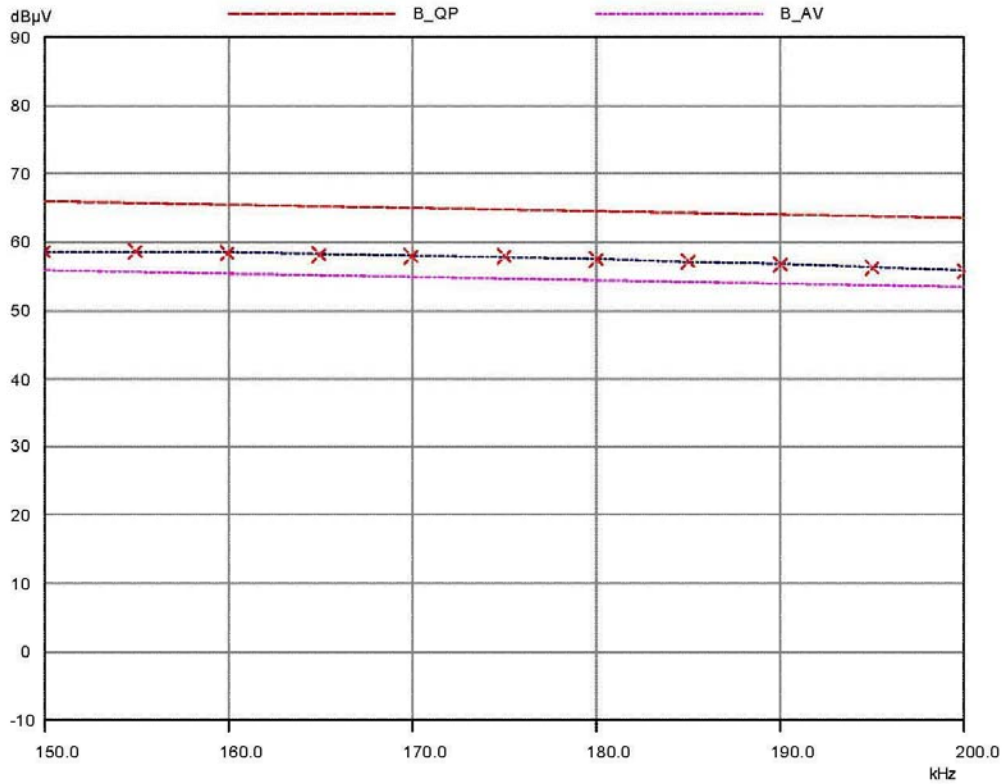
15 May 2007 14:05

CONDUCTED EMISSIONS

EUT: 1 input 9 output video & audio CAT5 distribution amplifier
 Manuf: 6E016
 Op Cond: LINE 1
 Operator: JASON
 Test Spec: FOR CISPR22 CLASS B
 Comment: 110V/60Hz
 CE09A

Result File:

Prescan Measurement: Detector: X QP
 Meas Time: see scan settings
 Subranges: 16
 Acc Margin: 55 dB





11 CONDUCTED POWER LINE TEST DATA (PAGE 4)

HomeTek EMC LAB. TEL :886-2-22608375

15 May 2007 14:05

CONDUCTED EMISSIONS

EUT: 1 input 9 output video & audio CAT5 distribution amplifier
 Manuf: 8E016
 Op Cond: LINE 1
 Operator: JASON
 Test Spec: FOR CISPR22 CLASS B
 Comment: 110V/60Hz
 CE09A

Result File:

Prescan Measurement: Detector: X QP
 Meas Time: see scan settings
 Subranges: 16
 Acc Margin: 55 dB

Peak Search Results

Frequency kHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
150.0	58.63	66.00	7.37
155.0	58.59	65.86	7.27
160.0	58.46	65.71	7.25
165.0	58.24	65.57	7.33
170.0	58.05	65.43	7.38
175.0	57.85	65.29	7.44
180.0	57.53	65.14	7.61
185.0	57.18	65.00	7.82
190.0	56.85	64.86	8.01
195.0	56.39	64.71	8.32
200.0	55.85	64.57	8.72

* limit exceeded

12 CONDUCTED POWER LINE TEST DATA (PAGE 5)

HomeTek EMC LAB. TEL :886-2-22608375

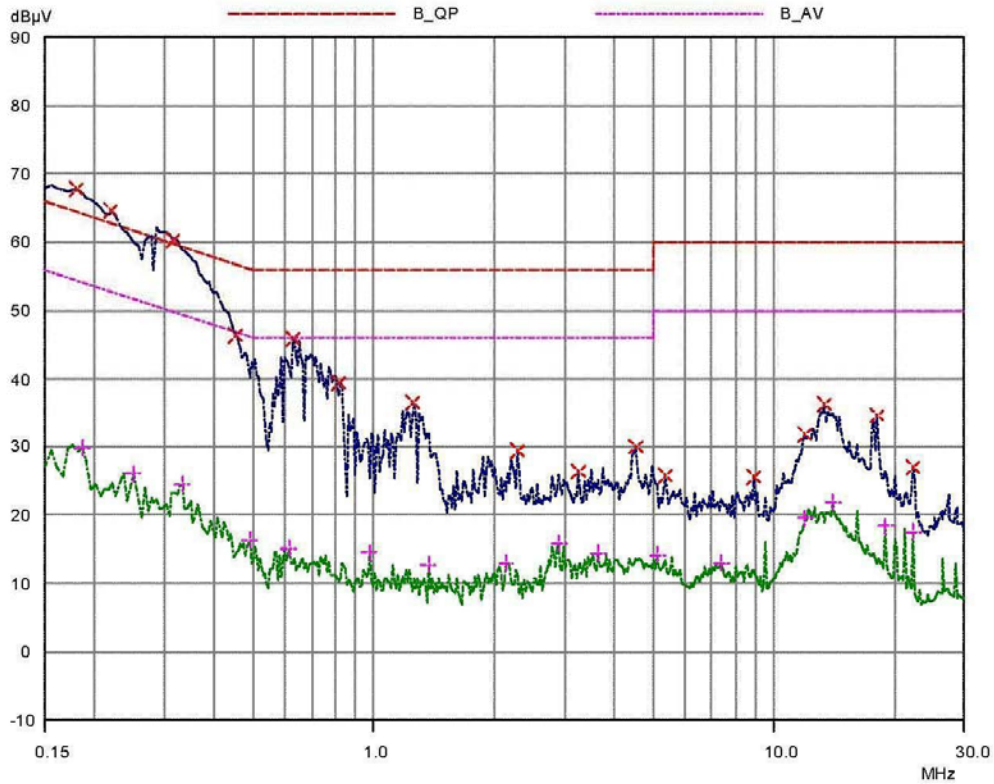
15 May 2007 14:10

CONDUCTED EMISSIONS

EUT: 1 input 9 output video & audio CAT5 distribution amplifier
 Manuf: 6E016
 Op Cond: LINE 2
 Operator: JASON
 Test Spec: FOR CISPR22 CLASS B
 Comment: 110V/60Hz
 CE09A

Result File:

Prescan Measurement: Detectors: X PK / + AV
 Meas Time: see scan settings
 Subranges: 16
 Acc Margin: 55 dB





13 CONDUCTED POWER LINE TEST DATA (PAGE 6)

HomeTek EMC LAB. TEL :886-2-22608375

15 May 2007 14:10

CONDUCTED EMISSIONS

EUT: 1 input 9 output video & audio CAT5 distribution amplifier
 Manuf: 6E016
 Op Cond: LINE 2
 Operator: JASON
 Test Spec: FOR CISPR22 CLASS B
 Comment: 110V/60Hz
 CE09A

Result File:

Prescan Measurement: Detectors: X PK / + AV
 Meas Time: see scan settings
 Subranges: 16
 Acc Margin: 55 dB

Peak Search Results

Frequency MHz	PK Level dBµV	PK Limit dBµV	PK Delta dB
0.18	67.71*	64.49	-3.22
0.22	64.58*	62.82	-1.76
0.315	60.45*	59.84	-0.61
0.45	46.41	56.88	10.47
0.63	46.02	56.00	9.98
0.82	39.55	56.00	16.45
1.25	36.51	56.00	19.49
2.28	29.43	56.00	26.57
3.22	26.37	56.00	29.63
4.48	29.96	56.00	26.04
5.33	25.74	60.00	34.26
8.9	25.45	60.00	34.55
11.97	31.69	60.00	28.31
13.38	36.42	60.00	23.58
18.0	34.57	60.00	25.43
22.25	27.04	60.00	32.96

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.185	29.83	54.26	24.43
0.25	26.03	51.76	25.73
0.33	24.54	49.45	24.91
0.485	16.38	46.25	29.87
0.61	15.09	46.00	30.91
0.97	14.56	46.00	31.44
1.36	12.73	46.00	33.27
2.14	12.91	46.00	33.09
2.89	15.89	46.00	30.11
3.61	14.45	46.00	31.55
5.08	14.12	50.00	35.88
7.39	12.92	50.00	37.08
11.97	19.52	50.00	30.48
13.98	21.92	50.00	28.08
18.94	18.39	50.00	31.61
22.25	17.58	50.00	32.42

* limit exceeded

14 CONDUCTED POWER LINE TEST DATA (PAGE 7)

HomeTek EMC LAB. TEL :886-2-22608375

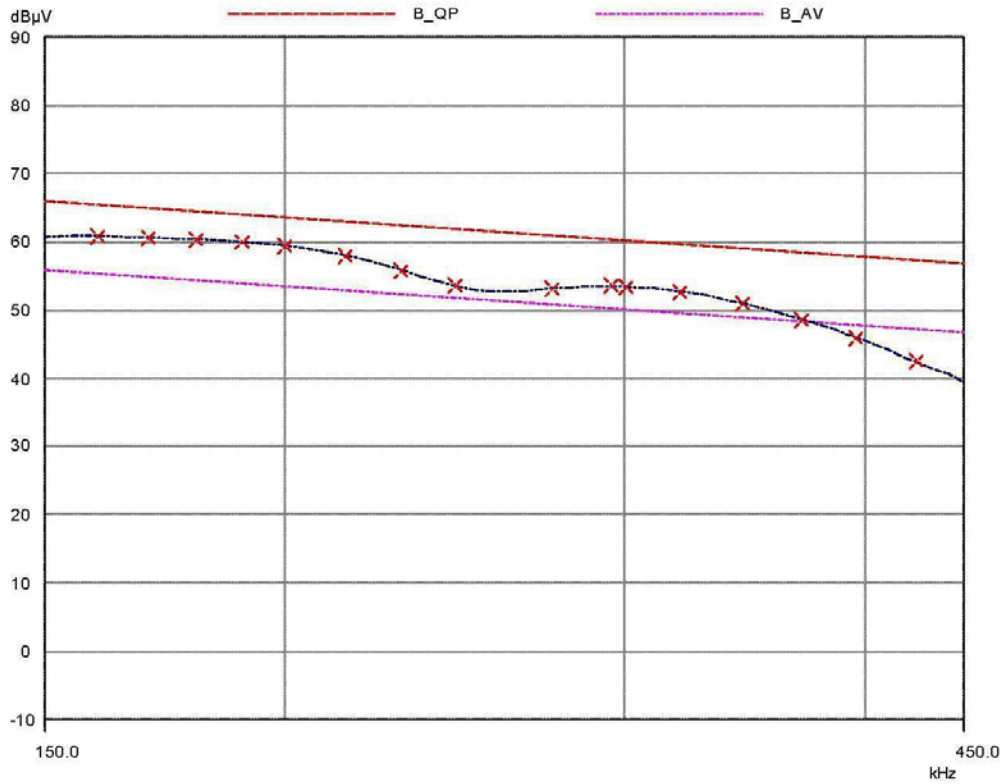
15 May 2007 14:12

CONDUCTED EMISSIONS

EUT: 1 input 9 output video & audio CAT5 distribution amplifier
 Manuf: 6E016
 Op Cond: LINE 2
 Operator: JASON
 Test Spec: FOR CISPR22 CLASS B
 Comment: 110V/60Hz
 CE09A

Result File:

Prescan Measurement: Detector: X QP
 Meas Time: see scan settings
 Subranges: 16
 Acc Margin: 55 dB





15 CONDUCTED POWER LINE TEST DATA (PAGE 8)

HomeTek EMC LAB. TEL :886-2-22608375

15 May 2007 14:12

CONDUCTED EMISSIONS

EUT: 1 input 9 output video & audio CAT5 distribution amplifier
 Manuf: 6E016
 Op Cond: LINE 2
 Operator: JASON
 Test Spec: FOR CISPR22 CLASS B
 Comment: 110V/60Hz
 CE09A

Result File:

Prescan Measurement: Detector: X QP
 Meas Time: see scan settings
 Subranges: 16
 Acc Margin: 55 dB

Peak Search Results

Frequency kHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
160.0	60.85	65.46	4.61
170.0	60.64	64.96	4.32
180.0	60.43	64.49	4.06
190.0	60.01	64.04	4.03
200.0	59.47	63.61	4.14
215.0	58.01	63.01	5.00
230.0	55.82	62.45	6.63
245.0	53.56	61.92	8.36
275.0	53.18	60.97	7.79
295.0	53.54	60.38	6.84
300.0	53.48	60.24	6.76
320.0	52.75	59.71	6.96
345.0	51.06	59.08	8.02
370.0	48.68	58.50	9.82
395.0	45.97	57.96	11.99
425.0	42.53	57.35	14.82

* limit exceeded

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/2006
2	EMI TEST RECEIVER	20Hz ~ 26.5GHz	ROHDE & SCHWARZ	ESMI 845442/006	FEB/2007
3	PRE-AMPLIFIER	9KHz ~ 3000MHz	ADVANTEST	BB525C 90081001	OCT/2006
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/2006
6	Cable	10m	SUHNER	RG214/U OS3-003	DEC/2006
7	Cable	14m	BELDEN	9913 OS3-001	DEC/2006
8	EMI 32 (software)	N/A	AUDIX	19991013-0923	N/A

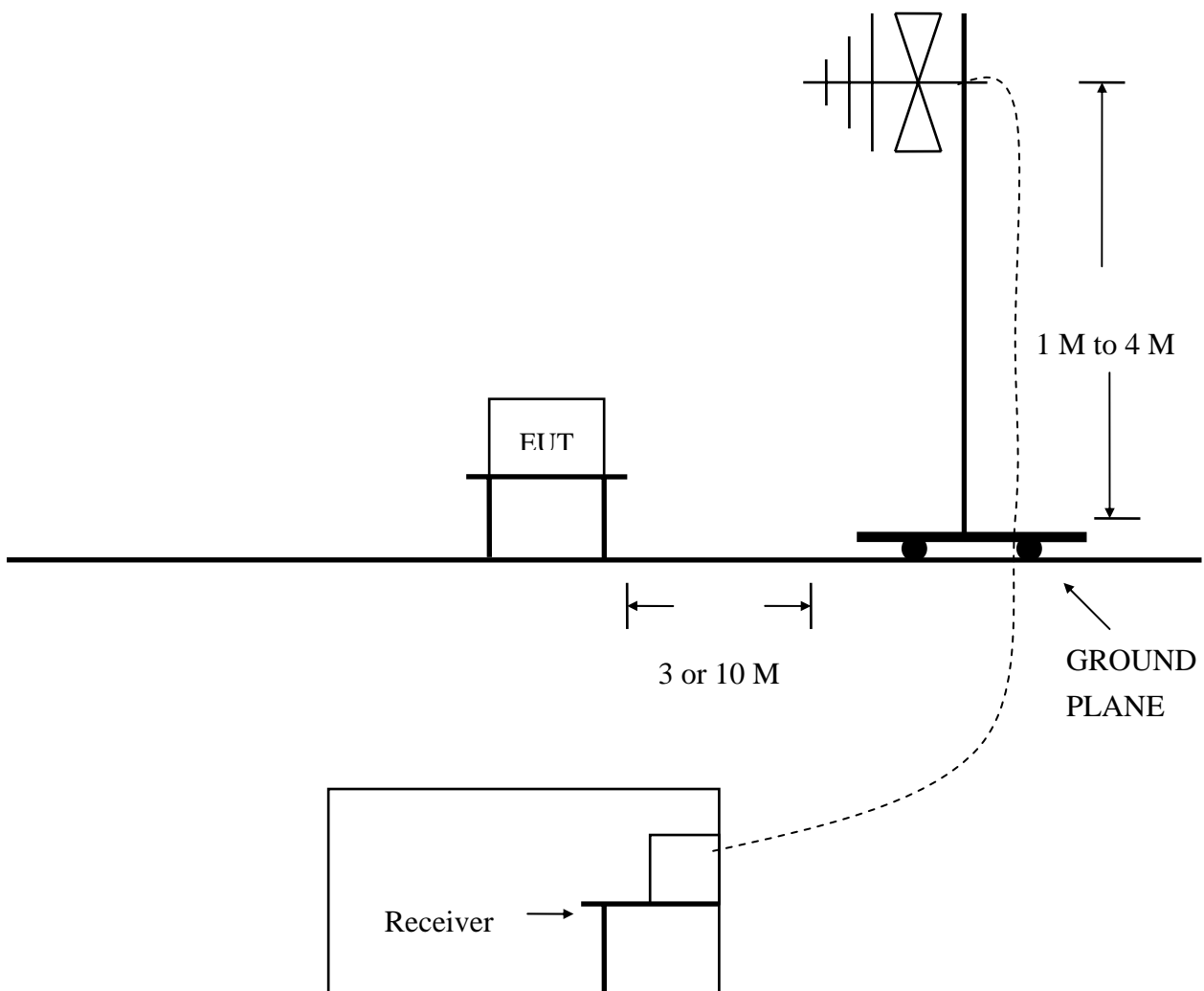
Note : Items 1 ~ 7 were calibrated within period of 1 year.

2 TEST PROCEDURE

- 2.1 The EUT was test according to **ANSI C63.4 – 2003 Section 5.4, 5.5, 8.1, 8.2, 8.3 & CISPR 22 - 1997 & C18-01-11 (HomeTek test procedure)**.
- 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.

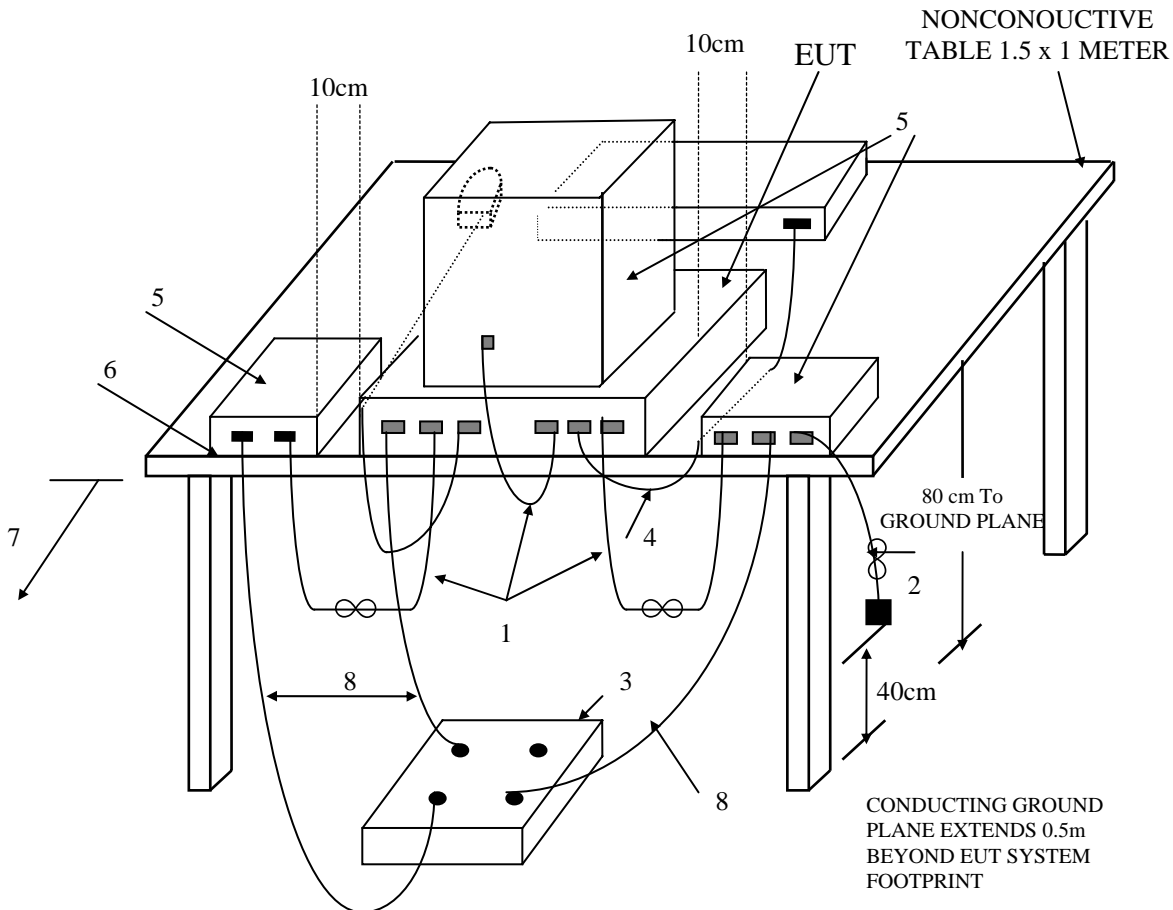
3 TEST SETUP

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

ANSI
C63.4-2003

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

LEGEND:

1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 to 40 cm long, hanging approximately in the middle between ground plane and table.
2. I/O cables that are connected to a peripheral shall be bundled in center. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1m.
3. If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground plane with the receptacle flush with the ground plane.
4. Cables of hand-operated devices, such as keyboards, mice, etc., have to be placed as close as possible to the controller.
5. Non-EUT components of EUT system being tested.
6. The rear of all components of the system under test shall be located flush with the rear of the table.
7. No vertical conducting wall used.
8. Power cords drape to the floor and are routed over to receptacle.

Test Configuration Tabletop Equipment Radiated Emission

4 CONFIGURATION OF THE EUT

Same as “Conducted Power Line test”, section 4

5 EUT OPERATING CONDITION

5.1 Same as “Conducted Power Line test”, section 5

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.

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

6 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

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 All readings above 1 GHz are average or peak values with resolution bandwidth of 1 MHz
- 7.4 The measurements were made at 10 meters of HomeTek Lab's open site 3.
- 7.5 Temperature : 29 °C, Humidity : 58 % RH.
- 7.6 Deviation form the test standards and rules : None
- 7.7 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
- 7.8 The radiated mission test was passed at minimum margin :
Vertical 216.04 MHz/ 26.83 dBuV/m, Antenna Height 1.2 Meter,
Turn Table 125 degree, Model : CE09A.
- 7.9 Result : **PASSED**



8 RADIATED EMISSION TEST DATA (PAGE 1)

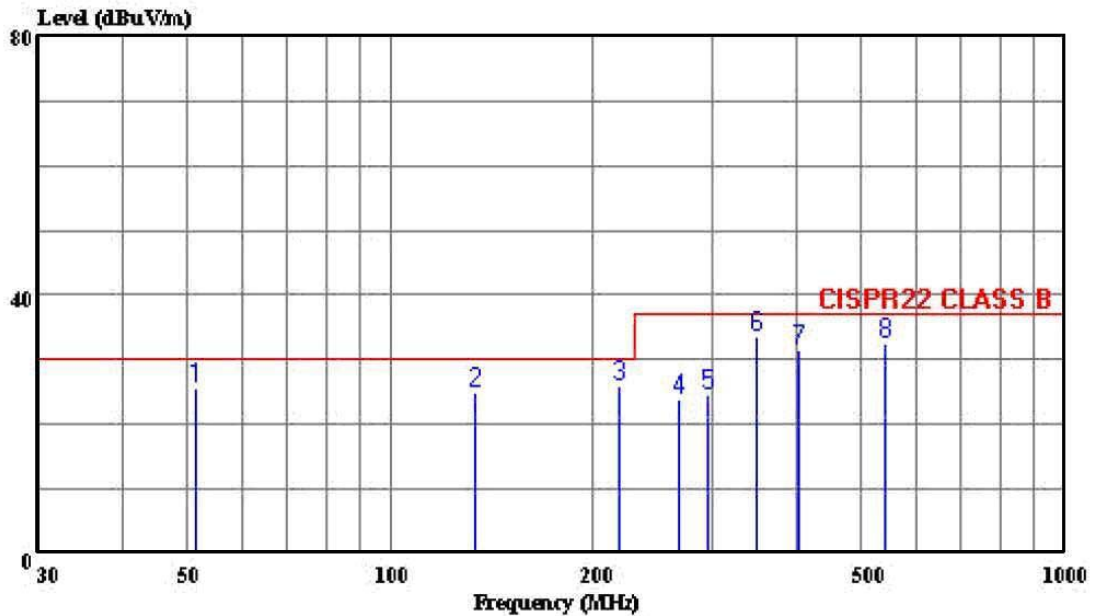


HomeTek Technology Inc.

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

Data#: 2 File#: 6e016.EMI

Date: 2007-05-16 Time: 17:39:15



Trace:

Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2614 060506 HORIZONTAL
cut : 1 input 9 output video & audio CAT5
power: 110V/60Hz
memo : CE09A

Page: 1

	Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Remark
	MHz	dBuV/m	dBuV/m	dB	Level	Loss	Factor	
					Factor			
					dB/m	dB	dB	
1	51.348	25.66	30.00	-4.34	42.35	8.52	0.76	25.97 Peak
2	133.396	24.80	30.00	-5.20	37.44	11.45	1.74	25.83 Peak
3	218.642	25.93	30.00	-4.07	40.27	9.10	2.23	25.68 Peak
4	266.940	23.72	37.00	-13.28	34.07	12.62	2.60	25.56 Peak
5	295.237	24.75	37.00	-12.25	34.47	13.04	2.75	25.51 Peak
6	348.006	33.68	37.00	-3.32	41.50	14.45	3.08	25.36 Peak
7	402.531	31.53	37.00	-5.47	37.62	15.72	3.38	25.19 Peak
8	541.140	32.67	37.00	-4.33	34.17	18.44	4.74	24.68 Peak

9 RADIATED EMISSION TEST DATA (PAGE 2)

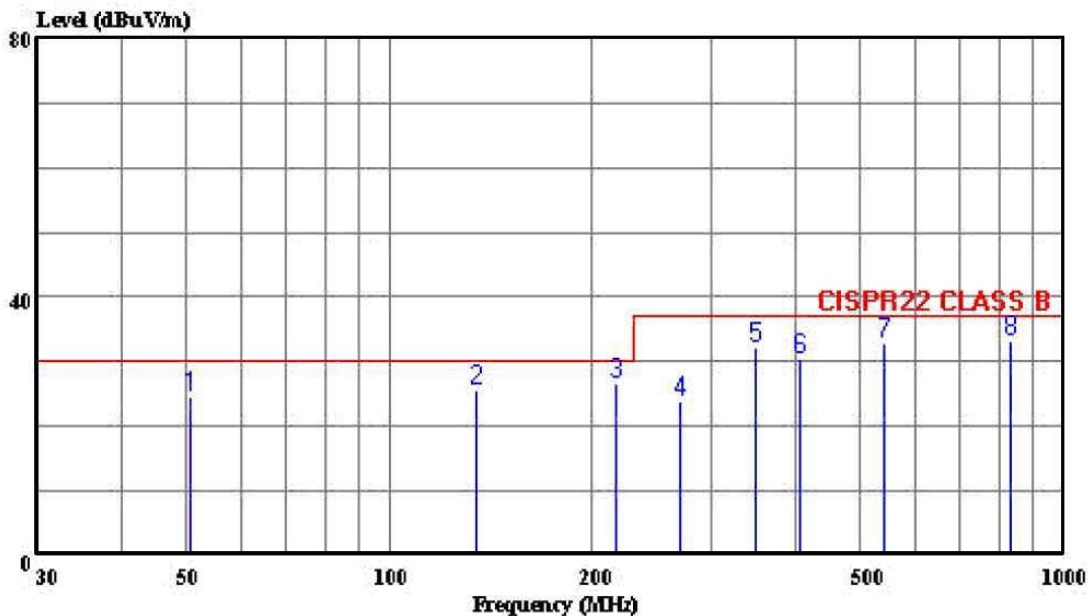


HomeTek Technology Inc.

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

Data#: 1 File#: 6e016.EMI

Date: 2007-05-16 Time: 17:06:58



Trace:

Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2614 060506 VERTICAL
 eut : 1 input 9 output video & audio CAT5
 power: 110V/60Hz
 memo : CE09A

Page: 1

	Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	Remark
1	50.469	24.69	30.00	-5.31	41.37	8.52	0.76	25.97	Peak
2	134.366	25.78	30.00	-4.22	38.42	11.45	1.74	25.83	Peak
3	216.042	26.83	30.00	-3.17	41.17	9.10	2.23	25.68	Peak
4	269.940	24.02	37.00	-12.98	34.37	12.62	2.60	25.56	Peak
5	350.006	32.28	37.00	-4.72	40.10	14.45	3.08	25.36	Peak
6	405.531	30.53	37.00	-6.47	36.62	15.72	3.38	25.19	Peak
7	540.180	32.80	37.00	-4.20	34.30	18.44	4.74	24.68	Peak
8	833.212	33.09	37.00	-3.91	31.50	20.11	5.14	23.66	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

Model : CE09A



Front View



Rear View

PHOTO OF RADIATED EMISSION TEST

Model : CE09A



Front View



Rear View



HomeTek Technology Inc.

Appendix B

PHOTOS OF EUT

PHOTO OF EUT

Model :HE09XXX , CE09XXX , YE09XXX



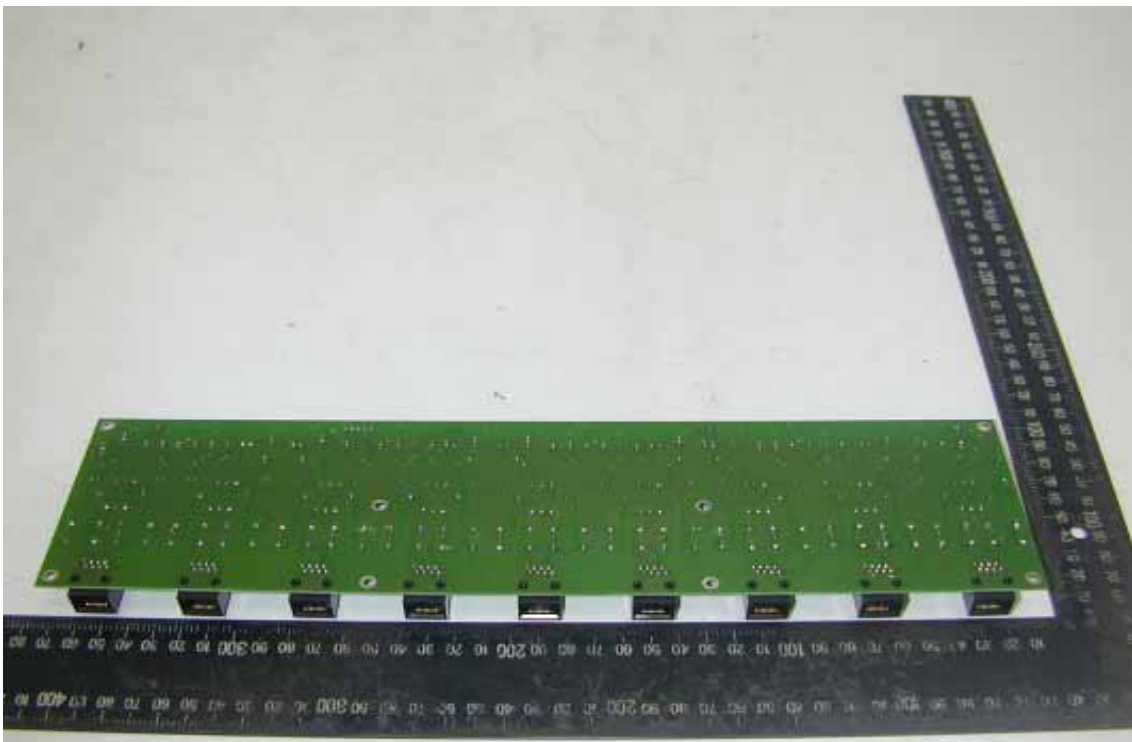
Full View of EUT

PHOTO OF EUT

Model :HE09XXX , CE09XXX , YE09XXX



Component Side of Main Board 1



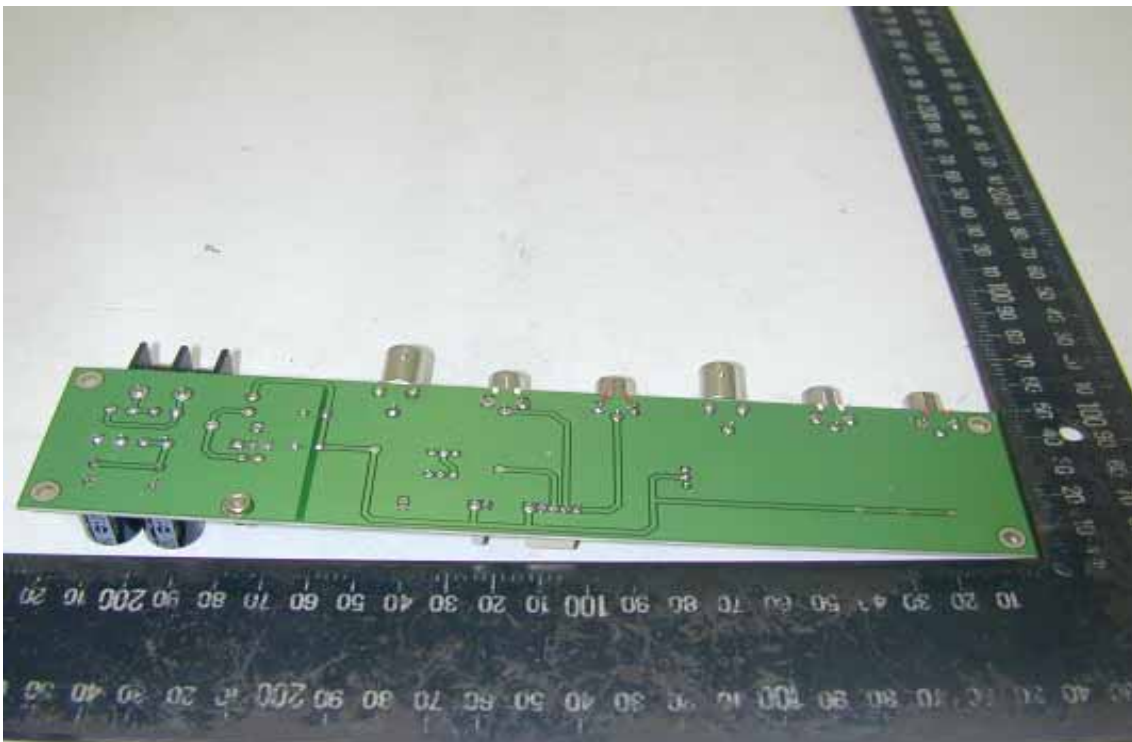
Solder Side of Main Board 1

PHOTO OF EUT

Model :HE09XXX , CE09XXX , YE09XXX



Component Side of Main Board 2



Solder Side of Main Board 2

PHOTO OF EUT



Front View of Adapter (Model: ADP2411-1)



Rear View of Adapter (Model: ADP2411-1)

Declaration of Conformity

Responsible Party Name :

Address :

Phone No :

Fax No :

Declares under our sole responsibility that the product

Product Name : 1 input 9 output video & audio CAT5
distribution amplifier

Model No. : HE09XXX, CE09XXX, YE09XXX

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

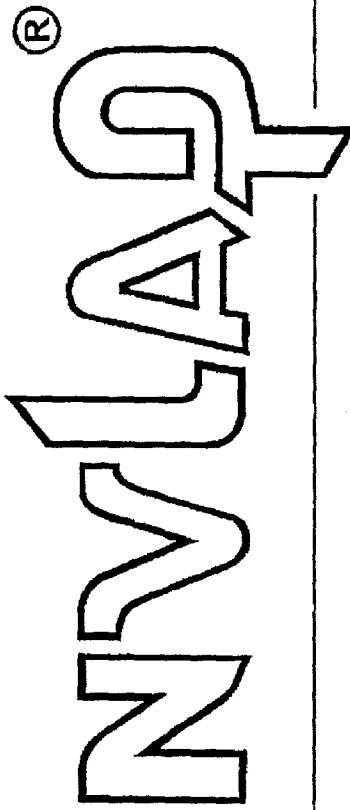
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Representative Person's Name : _____

Signature : _____

Date : _____

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200331-0

HomeTek Technology Inc.

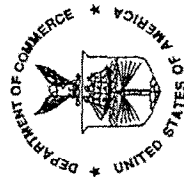
Taipei Shien 236
TAIWAN

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

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No. 67-9 Shir Men Rd., Tu Chen City
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TAIWAN
Mr. Grant Huang
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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

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



**National Voluntary
Laboratory Accreditation Program**



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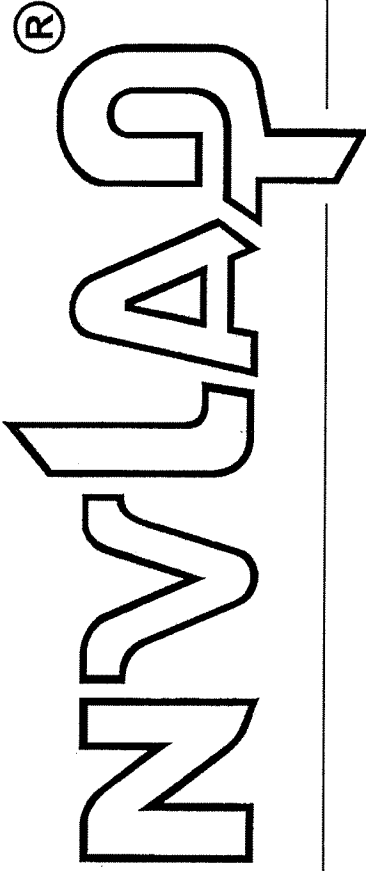
<i>NVLAP Code</i>	<i>Designation / Description</i>
12/CIS22a	IEC/CISPR 22 (1993) and EN 55022 (1994): Limits and methods of measurement of radio disturbance characteristics of information technology equipment, Amendment 1 (1995) and Amendment 2 (1996)
12/CIS22b	CNS 13438 (1997): Limits and Methods of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

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United States Department of Commerce
National Institute of Standards and Technology



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Taipei Shien 236

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*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 Communiqué 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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2007-10-01 through 2008-09-30

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