



Test Report

Product Name : Wireless ADSL Router
Model No. : WA1003A-RU
FCC ID. : QISWA1003A-RUV100

Applicant : HUAWEI Technologies Co.,LTD.
Address : Huawei industrial Base, Bantian Longgang,
Shenzhen P.R.C

Date of Receipt : 2004/04289
Date of Test : 2004/05/04
Report No. : 044H044F

The test results relate only to the samples tested.

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This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Test Date : 2004/05/04

Report No. : 044H044F



Product Name : Wireless ADSL Router
 Applicant : HUAWEI Technologies Co.,LTD.
 Address : Huawei industrial Base, Bantian Longgang, Shenzhen P.R.C
 Manufacturer : Alpha Networks Inc.
 Model No. : WA1003A-RU
 FCC ID. : QISWA1003A-RUV100
 Rated Voltage : AC 120 V / 60 Hz
 Trade Name : HUAWEI
 Measurement Standard : FCC CFR Title 47 Part 15 Subpart B: 2003, CISPR 22: 1997
 Measurement Procedure : ANSI.C63.4: 2001
 Classification : B
 Test Result : Complied



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(Kevin Wang)

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1. General Information

1.1. EUT Description

Product Name	Wireless ADSL Router
Trade Name	HUAWEI
Model No.	WA1003A-RU
FCC ID	QISWA1003A-RUV100
EUT Voltage	AC 120 V / 60 Hz

Component	
Telecom Cable	Non-Shielded, 1.9m
LAN Cable	Non-Shielded, 1.6m
USB Cable	Shielded, 1.5m
Power Adapter	KTEC, KA12A120120046U Cable Out: Non-Shielded, 1.7m
Power Adapter	POTRANS, UWP01521120U Cable Out: Non-Shielded, 1.8m

Note:

1. This EUT is a Wireless ADSL Router.
2. The radio module of device was certified under FCC ID: RRK20031200281 .

1.2. Operational Description

The WA1003A-RU is designed to provide a simple, cost-effective and secure ADSL Internet connection for wired (Ethernet) and wireless (802.11b) stations on your network. The WA1003A-RU combines high-speed ADSL connection technology, TCP/IP routing and 802.11b wireless connectivity in one compact unit.

The WA1003A-RU connects to an Ethernet LAN via a standard Ethernet 10BASE-T interface using RJ-45 connectors. The ADSL connection is made using ordinary twisted-pair telephone line with standard RJ-11 connectors. This arrangement allows wired and wireless workstations to share network resources and connect to the Internet using a single WAN interface and IP address.

The WA1003A-RU supports transparent bridging or it can be used for IP packet routing over the Internet. Cost saving features of the WA1003A-RU such as NAT (Network Address Translator) and DHCP (Dynamic Host Configuration Protocol) improve efficiency and security. The advanced security enhancements, packet filtering and port redirection, can help protect your network from potentially devastating intrusions by malicious agents outside your network.

All the 802.11b wireless settings for the WA1003A-RU are entered on a single page in the web manager. Security for the wireless interface comes in two forms, WEP Encryption and MAC Address Control.

1.3. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode	
EMI	Mode 1: Data Transmit (Power: KTEC) Mode 2: Data Transmit (Power: POTRANS)
Final Test Mode	
EMI	Mode 1: Data Transmit (Power: KTEC) Mode 2: Data Transmit (Power: POTRANS)

The uncertainty is calculated in accordance with NAMAS NIS 81, the total uncertainty for this test is as follows:

➤ Emission Test

- Uncertainty in the conducted emission:

Measurement	Uncertainty
150kHz—30MHz	< ± 2.36

- Uncertainty in the radiated emission:

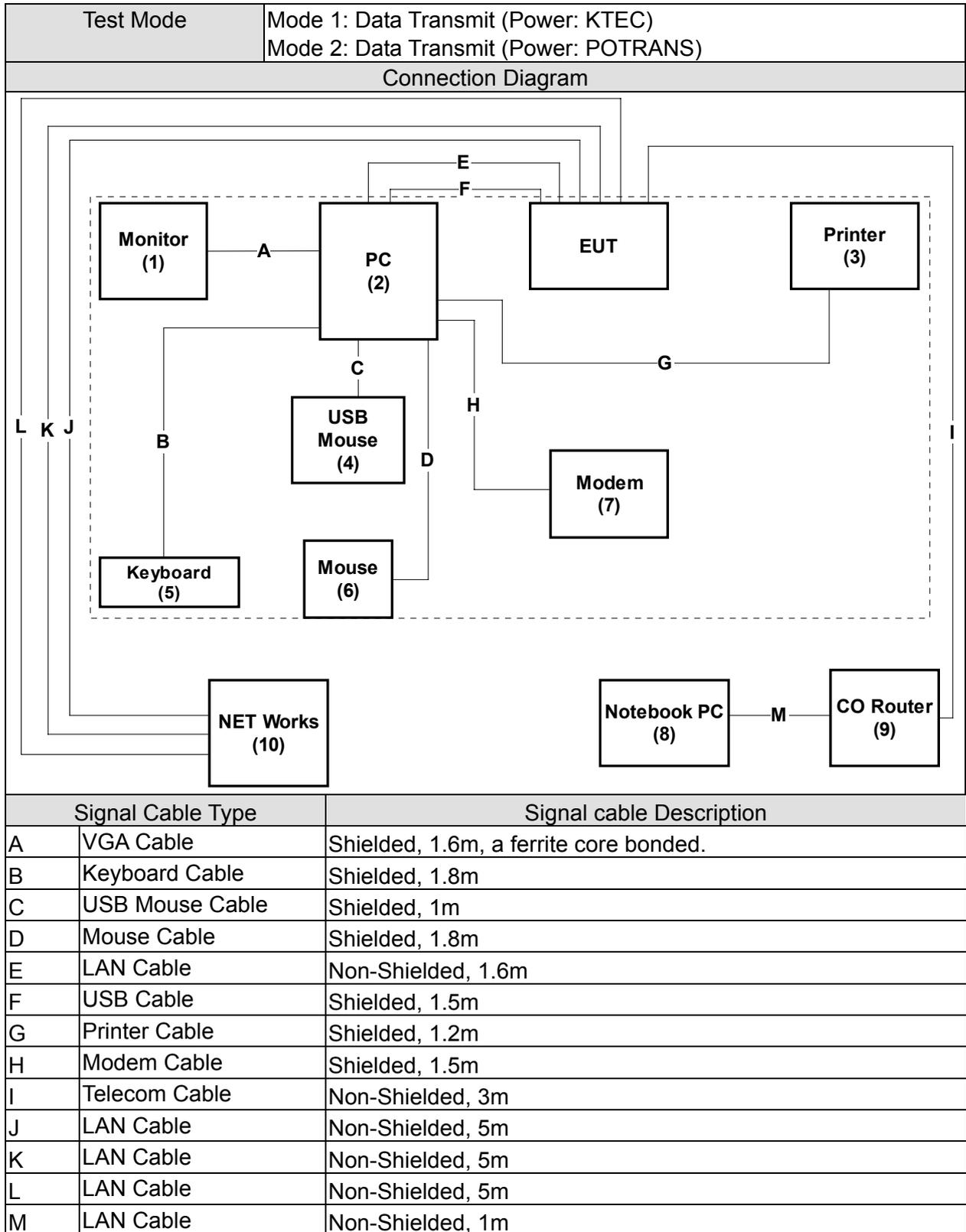
Measurement	Uncertainty
30MHz—1000MHz	< ± 4.2 dB

1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Test Mode	Mode 1: Data Transmit (Power: KTEC) Mode 2: Data Transmit (Power: POTRANS)					
Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord	
1	Monitor	SAMPO	KM-522	S5110119ET00953	DoC	Non-Shielded, 1.8m
2	PC	IBM	16W	BNL676N	DoC	Non-Shielded, 1.8m
3	Printer	HP	C2642A	MY75N1D2Y1	DoC	Non-Shielded, 0.7m
4	USB Mouse	Logitech	M-UE55	N/A	DoC	--
5	Keyboard	COMPAQ	KB-0133	N/A	DoC	--
6	Mouse	Microsoft	X03-51335	63618	DoC	--
7	Modem	ACEEX	DM-1414	0102027544	DoC	Non-Shielded, 1.6m
8	Notebook PC	DELL	Latitude 610	N/A	DoC	Non-Shielded, 1.7m, a ferrite core bonded
9	CO Router	Alpha	N/A	N/A	DoC	Non-Shielded, 1.8m
10	NET Works	Extreme	Summit 24a	N/A	DoC	Non-Shielded, 1.8m

1.5. Configuration of tested System



1.6. EUT Exercise Software

Test Mode	Mode 1: Data Transmit (Power: KTEC) Mode 2: Data Transmit (Power: POTRANS)
1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	Boot the PC from Hard Disk.
4	Data will communicate between personal computer and panner personal computer through EUT that is connected to LAN port of personal computer.
5	The personal computer's and parner personal computer's monitor will show the transmitting and receiving characteristics when the communication is success.
6	Wireless LAN function was used to perform the wireless data transmission.
7	Repeat the above procedure (4) to (6).

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	ANSI.C63.4 CE	15 - 35	22
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	ANSI.C63.4 RE	15 -35	20
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description: June 22, 2001 File on
 Federal Communications Commission
 FCC Engineering Laboratory
 7435 Oakland Mills Road
 Columbia, MD 21046
 Reference 31040/SIT1300F2



July 03, 2001 Accreditation on NVLAP
 NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation



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2. Conducted Emission

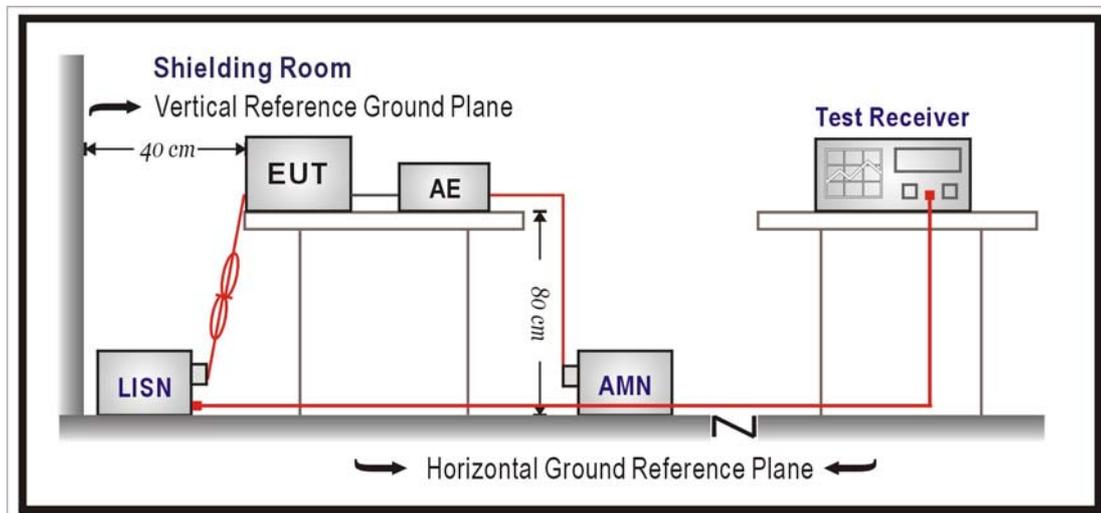
2.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/018	Sep., 2003	
2	Artificial Mains Network	R & S	ENV4200/848411/10	Feb., 2004	Peripheral
3	LISN	R & S	ESH3-Z5/825562/002	Feb., 2004	EUT
4	Pulse Limiter	R & S	ESH3-Z2/357.8810.52	Feb., 2004	
5	No.2 Shielded Room			N/A	

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart B Paragraph 15.107 Limits (dBuV)				
Frequency MHz	Class A		Class B	
	QP	AV	QP	AV
0.15 - 0.50	79	66	66-56	56-46
0.50-5.0	73	60	56	46
5.0 - 30	73	60	60	50

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

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2001 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Test Specification

According to FCC CFR Title 47 Part 15 Subpart B: 2003, CISPR 22: 1997

2.6. Test Result

Product	Wireless ADSL Router		
Test Mode	Mode 1: Data Transmit (Power: KTEC)		
Date of Test	2004/05/04	Test Site	SR2
Test Condition	Line1	Test Range	0.15~30MHz

Frequency MHz	Cable Loss dB	Probe Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
0.176	0.19	0.11	48.70	49.00	64.67
0.283	0.22	0.16	46.60	46.98	60.73
* 0.431	0.24	0.20	45.70	46.14	57.23
6.009	0.40	0.45	36.60	37.45	60.00
13.358	0.45	0.52	33.20	34.17	60.00
23.127	0.48	0.58	44.10	45.16	60.00
Average					
0.176	0.19	0.11	18.50	18.80	54.67
0.283	0.22	0.16	16.00	16.38	50.73
0.431	0.24	0.20	15.80	16.24	47.23
6.009	0.40	0.45	34.80	35.65	50.00
13.358	0.45	0.52	30.20	31.17	50.00
* 23.127	0.48	0.58	42.30	43.36	50.00

Note:

1. All Reading Levels are Quasi-Peak and Average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product	Wireless ADSL Router		
Test Mode	Mode 1: Data Transmit (Power: KTEC)		
Date of Test	2004/05/04	Test Site	SR2
Test Condition	Line2	Test Range	0.15~30MHz

Frequency MHz	Cable Loss dB	Probe Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
0.177	0.19	0.12	48.00	48.31	64.63
0.298	0.22	0.17	44.60	44.99	60.30
0.536	0.26	0.22	35.30	35.78	56.00
6.008	0.40	0.45	37.80	38.65	60.00
13.357	0.45	0.52	36.00	36.97	60.00
* 23.127	0.48	0.58	45.70	46.76	60.00
Average					
0.177	0.19	0.12	18.30	18.61	54.63
0.298	0.22	0.17	14.20	14.59	50.30
0.536	0.26	0.22	9.00	9.48	46.00
6.008	0.40	0.45	36.20	37.05	50.00
13.357	0.45	0.52	33.60	34.57	50.00
* 23.127	0.48	0.58	43.90	44.96	50.00

Note:

1. All Reading Levels are Quasi-Peak and Average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product	Wireless ADSL Router		
Test Mode	Mode 2: Data Transmit (Power: POTRANS)		
Date of Test	2004/05/04	Test Site	SR2
Test Condition	Line1	Test Range	0.15~30MHz

Frequency MHz	Cable Loss dB	Probe Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
0.210	0.10	0.13	44.12	44.35	63.22
0.279	0.10	0.16	41.11	41.37	60.83
0.421	0.10	0.20	37.02	37.32	57.43
0.770	0.11	0.26	28.64	29.00	56.00
* 14.017	0.29	0.53	45.19	46.00	60.00
23.129	0.41	0.58	35.42	36.40	60.00
Average					
0.210	0.10	0.13	37.10	37.33	53.21
0.279	0.10	0.16	37.30	37.56	50.85
0.421	0.10	0.20	37.00	37.30	47.43
0.770	0.11	0.26	28.50	28.86	46.00
* 14.017	0.29	0.53	43.60	44.41	50.00
23.129	0.41	0.58	34.30	35.28	50.00

Note:

1. All Reading Levels are Quasi-Peak and Average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product	Wireless ADSL Router		
Test Mode	Mode 2: Data Transmit (Power: POTRANS)		
Date of Test	2004/05/04	Test Site	SR2
Test Condition	Line2	Test Range	0.15~30MHz

Frequency MHz	Cable Loss dB	Probe Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
0.209	0.10	0.13	42.51	42.74	63.23
0.280	0.10	0.16	39.25	39.51	60.83
0.417	0.10	0.20	33.48	33.78	57.50
0.770	0.11	0.26	26.97	27.33	56.00
* 13.035	0.27	0.52	41.18	41.97	60.00
23.129	0.41	0.58	36.94	37.92	60.00
Average					
0.209	0.10	0.13	35.80	36.03	53.24
0.280	0.10	0.16	35.40	35.66	50.82
0.417	0.10	0.20	33.00	33.30	47.51
0.770	0.11	0.26	27.00	27.36	46.00
* 13.035	0.27	0.52	38.60	39.39	50.00
23.129	0.41	0.58	34.90	35.88	50.00

Note:

1. All Reading Levels are Quasi-Peak and Average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

2.7. Test Photo

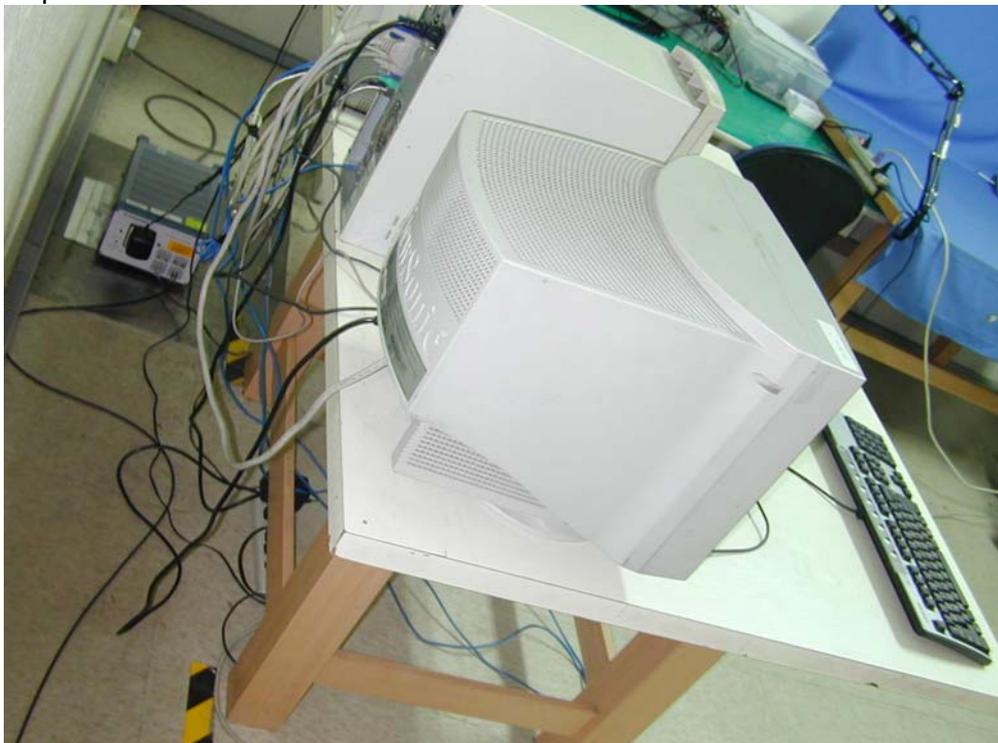
Test Mode : Mode 1: Data Transmit (Power: KTEC)

Description : Front View of Conducted Test



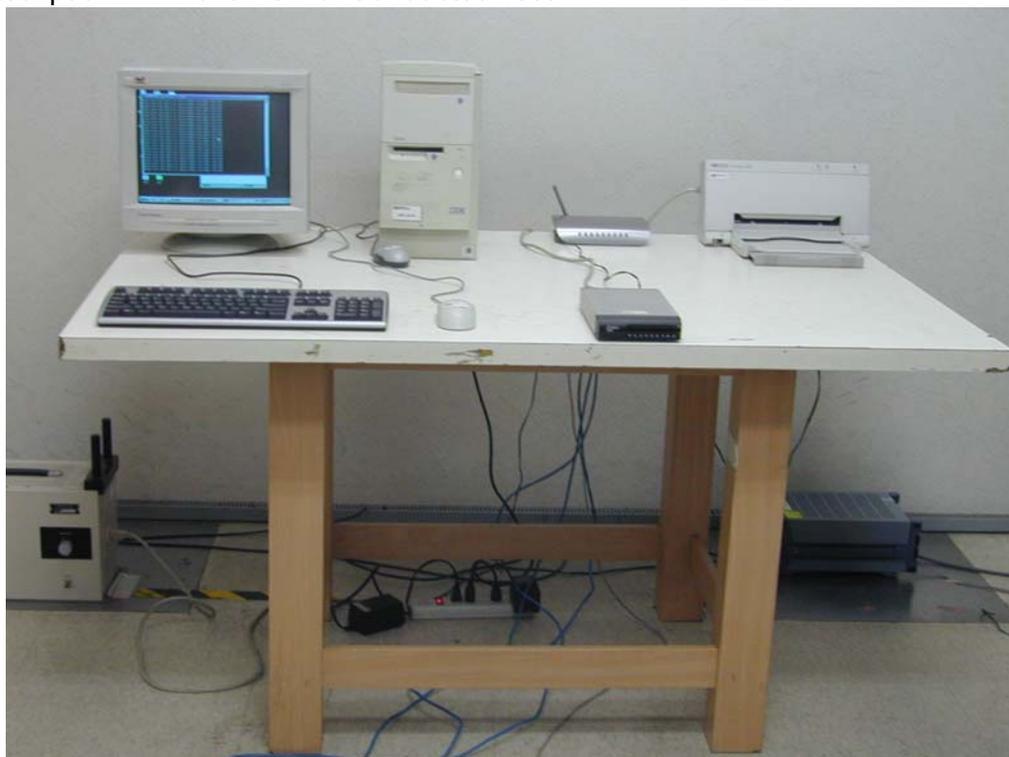
Test Mode : Mode 1: Data Transmit (Power: KTEC)

Description : Back View of Conducted Test



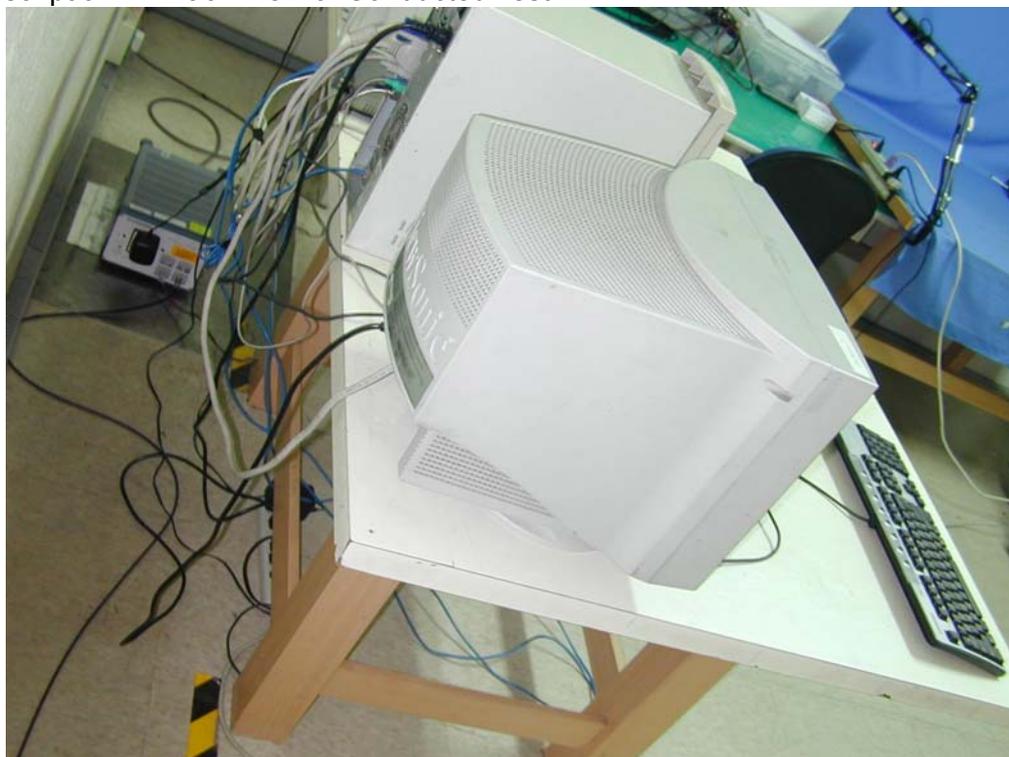
Test Mode : Mode 2: Data Transmit (Power: POTRANS)

Description : Front View of Conducted Test



Test Mode : Mode 2: Data Transmit (Power: POTRANS)

Description : Back View of Conducted Test



3. Radiated Emission

3.1. Test Equipment

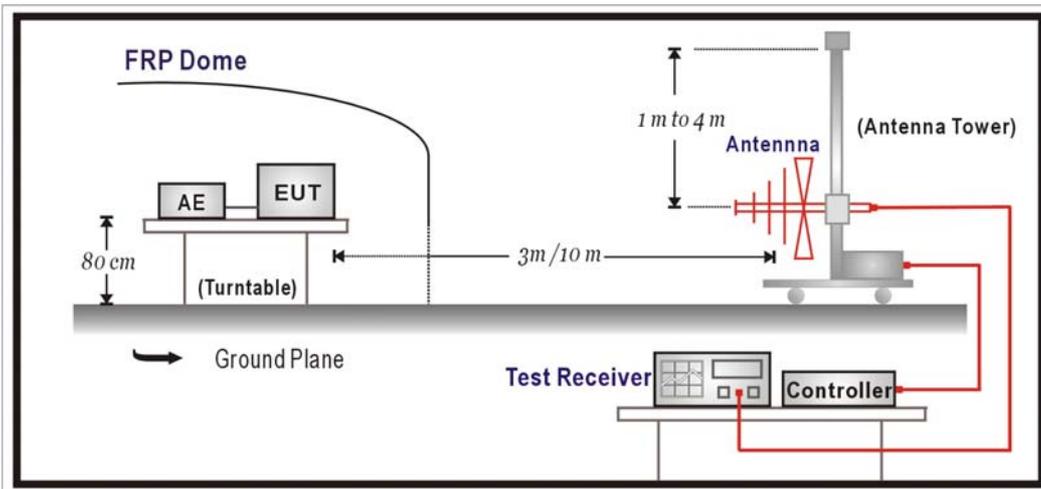
The following test equipment are used during the test:

Item		Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Test Receiver	R & S	ESCS 30 / 825442/014	Jun., 2003
2	X	Spectrum Analyzer	Advantest	R3162 / 91700283	N/A
3	X	Pre-Amplifier	Advantest	BB525C / N/A	N/A
4	X	Bilog Antenna	Schaffner	CBL6112B / 2673	Sep., 2003
5	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2003
6	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2004
7	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Jul., 2003
8		No.3 OATS			Sep., 2003

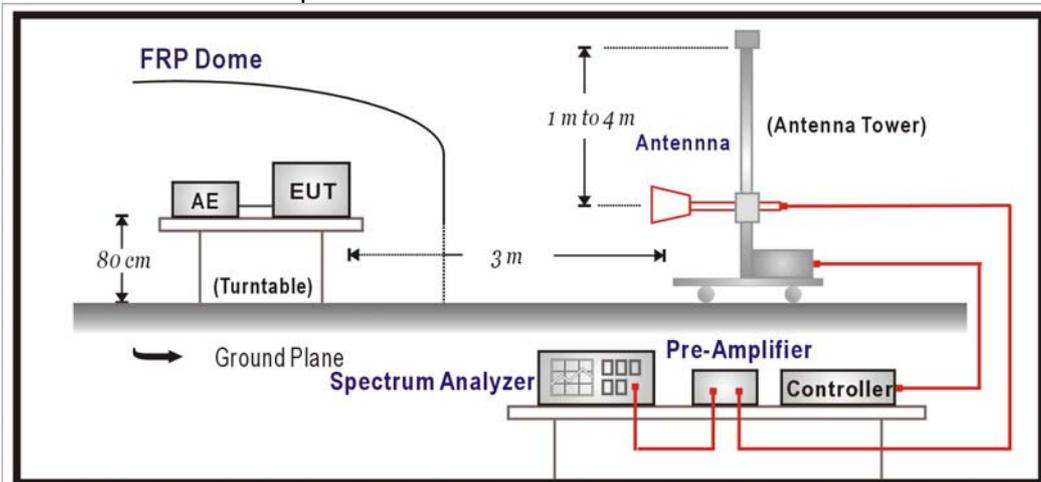
- Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

3.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



3.3. Limits

Under 1GHz test shall not exceed the following value:

CISPR 22 Limits (dBuV/m)				
Frequency MHz	Class A		Class B	
	Distance (m)	dBuV/m	Distance (m)	dBuV/m
30 – 230	10	40	10	30
230 – 1000	10	47	10	37

- Remark: 1. The tighter limit shall apply at the edge 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 device or system.
 3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

Above 1GHz test shall not exceed the following value:

FCC Part 15 Subpart B Paragraph 15.109 Limits (dBuV/m)				
Frequency MHz	Class A		Class B	
	Distance (m)	dBuV/m	Distance (m)	dBuV/m
30-88	10	39	3	40
88-216	10	43.5	3	43.5
216-960	10	46.4	3	46
Above 960	10	49.5	3	54

- Remarks : 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2001 on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a CISPR quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. For class A, the EUT was positioned such that the distance from antenna to the EUT was 10 meters for under 1GHz and above 1GHz.

For class B, the EUT was positioned such that the distance from antenna to the EUT was 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30) is 120 kHz and above 1GHz is 1MHz.

3.5. Test Specification

According to FCC CFR Title 47 Part 15 Subpart B: 2003, CISPR 22: 1997

3.6. Test Result

Product	Wireless ADSL Router		
Test Mode	Mode 1: Data Transmit (Power: KTEC)		
Date of Test	2004/05/04	Test Site	Site3
Test Condition	Horizontal	Test Range	30~1000MHz

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP Reading dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
=====							
Horizontal:							
69.000	1.52	3.41	0.00	8.32	13.25	16.75	30.00
108.525	1.91	10.47	0.00	10.14	22.51	7.49	30.00
147.900	2.29	10.51	0.00	9.26	22.06	7.94	30.00
187.500	2.67	8.60	0.00	12.76	24.03	5.97	30.00
200.000	2.78	9.29	0.00	11.91	23.99	6.01	30.00
211.950	2.91	9.97	0.00	9.02	21.90	8.10	30.00
250.000	3.27	13.61	0.00	11.46	28.34	8.66	37.00
* 312.500	3.82	13.12	0.00	16.21	33.14	3.86	37.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product	Wireless ADSL Router		
Test Mode	Mode 1: Data Transmit (Power: KTEC)		
Date of Test	2004/05/04	Test Site	Site3
Test Condition	Vertical	Test Range	30~1000MHz

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP Reading dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
=====							
Vertical:							
34.000	1.19	14.16	0.00	5.43	20.78	9.22	30.00
71.325	1.55	6.32	0.00	19.07	26.94	3.06	30.00
81.000	1.65	10.36	0.00	13.50	25.50	4.50	30.00
* 108.600	1.91	9.48	0.00	15.58	26.97	3.03	30.00
125.000	2.07	7.46	0.00	9.84	19.37	10.63	30.00
187.500	2.67	9.66	0.00	9.32	21.66	8.34	30.00
200.000	2.78	10.33	0.00	9.19	22.30	7.70	30.00
250.000	3.27	12.06	0.00	13.52	28.85	8.15	37.00
312.500	3.82	14.36	0.00	15.27	33.44	3.56	37.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product	Wireless ADSL Router		
Test Mode	Mode 2: Data Transmit (Power: POTRANS)		
Date of Test	2004/05/04	Test Site	Site3
Test Condition	Horizontal	Test Range	30~1000MHz

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP Reading dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
=====							
Horizontal:							
62.500	1.46	5.45	0.00	6.39	13.29	16.71	30.00
125.000	2.07	11.84	0.00	10.29	24.20	5.80	30.00
200.000	2.78	9.30	0.00	10.58	22.66	7.34	30.00
* 250.015	3.27	12.61	0.00	16.52	32.40	4.60	37.00
375.015	4.14	15.00	0.00	5.94	25.08	11.92	37.00
500.020	4.79	17.34	0.00	2.76	24.89	12.11	37.00
625.020	5.44	19.30	0.00	3.90	28.65	8.35	37.00
687.525	5.77	19.10	0.00	2.81	27.68	9.32	37.00
750.020	6.10	19.99	0.00	2.28	28.37	8.63	37.00
875.035	6.75	20.76	0.00	2.41	29.92	7.08	37.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product	Wireless ADSL Router		
Test Mode	Mode 2: Data Transmit (Power: POTRANS)		
Date of Test	2004/05/04	Test Site	Site3
Test Condition	Vertical	Test Range	30~1000MHz

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP Reading dB	Emission Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
=====							
Vertical:							
42.500	1.27	11.47	0.00	9.17	21.91	8.09	30.00
72.500	1.56	6.30	0.00	10.73	18.59	11.41	30.00
79.000	1.62	6.53	0.00	10.90	19.05	10.95	30.00
* 125.000	2.07	11.49	0.00	11.77	25.33	4.67	30.00
150.000	2.31	10.43	0.00	8.65	21.39	8.61	30.00
200.000	2.78	9.07	0.00	10.11	21.97	8.03	30.00
250.000	3.27	12.26	0.00	14.64	30.17	6.83	37.00
312.500	3.82	13.93	0.00	10.97	28.71	8.29	37.00
375.000	4.14	15.40	0.00	3.63	23.17	13.83	37.00
625.030	5.44	18.50	0.00	1.29	25.24	11.76	37.00
687.525	5.77	18.60	0.00	2.51	26.88	10.12	37.00
875.000	6.75	19.66	0.00	0.31	26.72	10.28	37.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

3.7. Test Photo

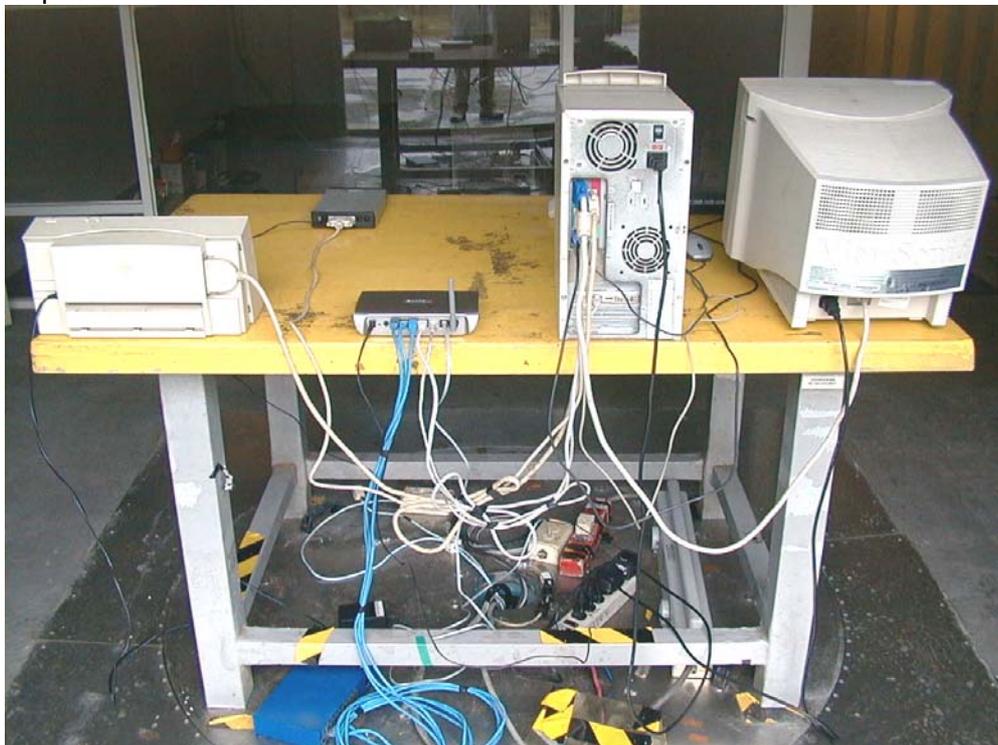
Test Mode : Mode 1: Data Transmit (Power: KTEC)

Description : Front View of Radiated Test



Test Mode : Mode 1: Data Transmit (Power: KTEC)

Description : Back View of Radiated Test



Test Mode : Mode 2: Data Transmit (Power: POTRANS)
Description : Front View of Radiated Test



Test Mode : Mode 2: Data Transmit (Power: POTRANS)
Description : Back View of Radiated Test



Attachement

➤ EUT Photograph

(1) EUT Photo

Power Adapter: KTEC



(2) EUT Photo



(3) EUT Photo

Power Adapter: POTRANS



(4) EUT Photo



(5) EUT Photo



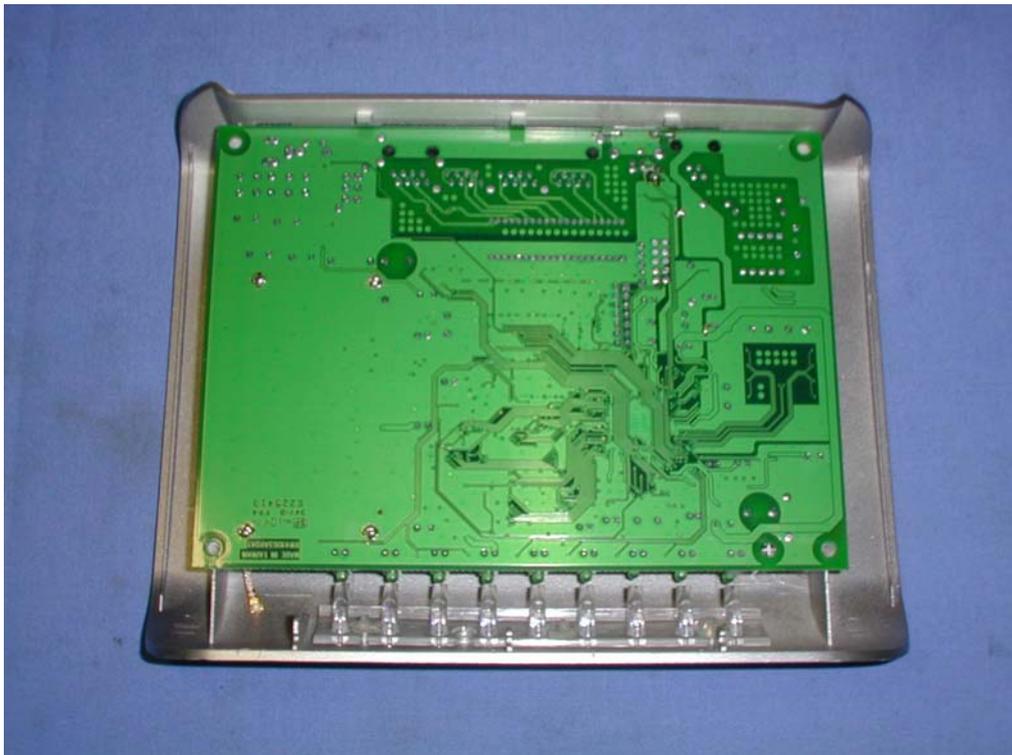
(6) EUT Photo



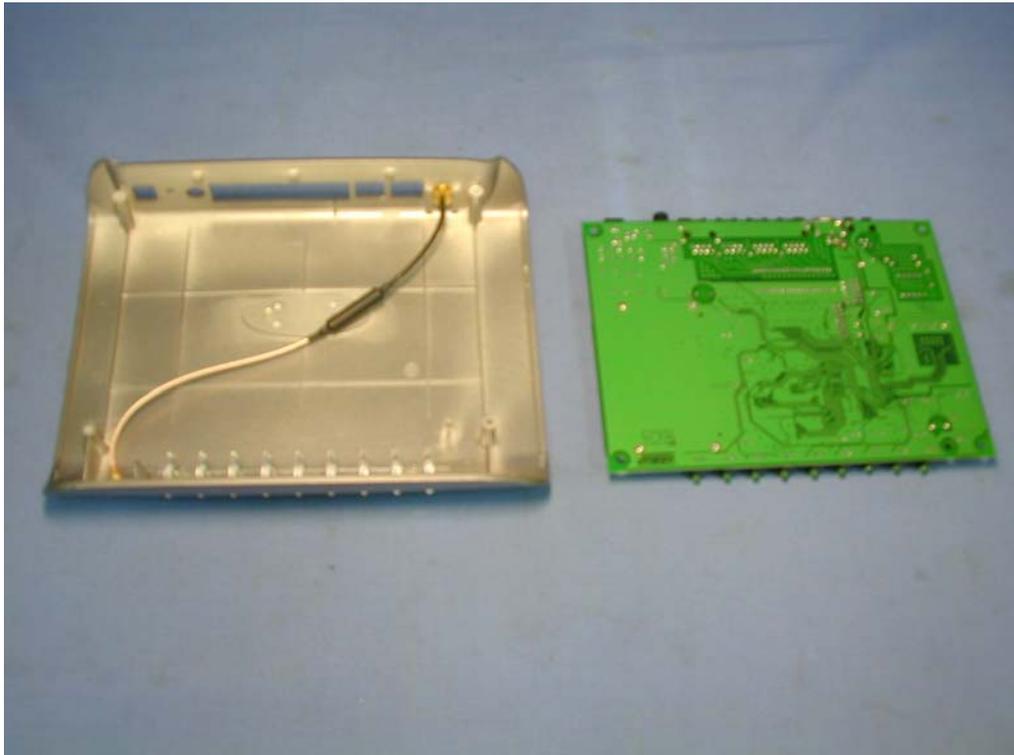
(7) EUT Photo



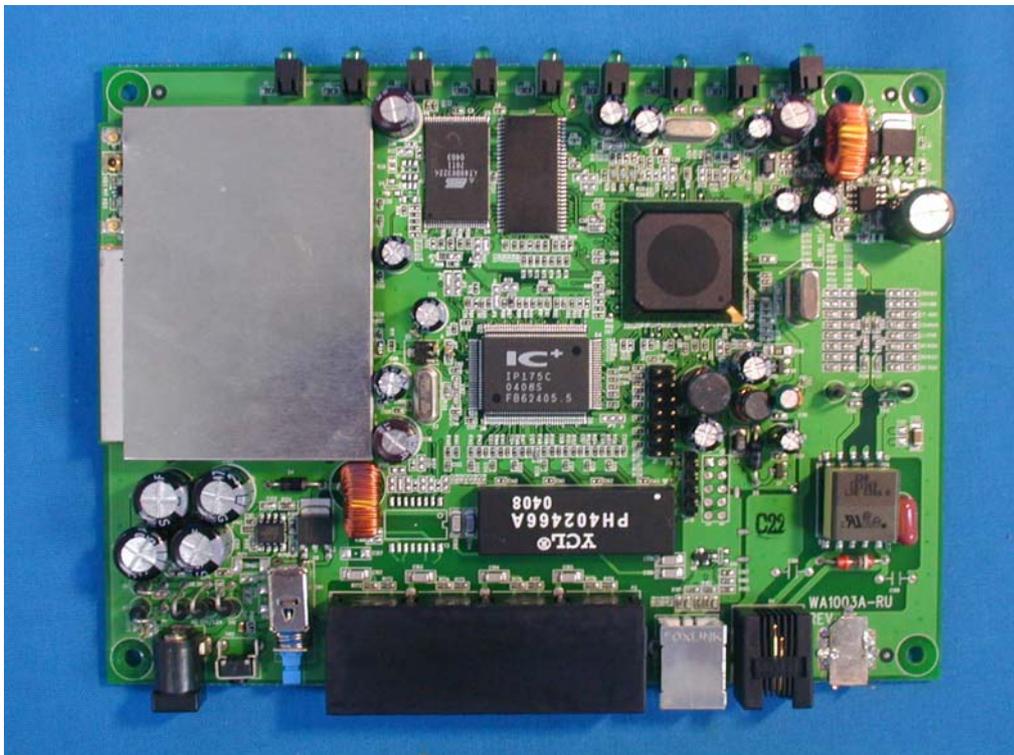
(8) EUT Photo



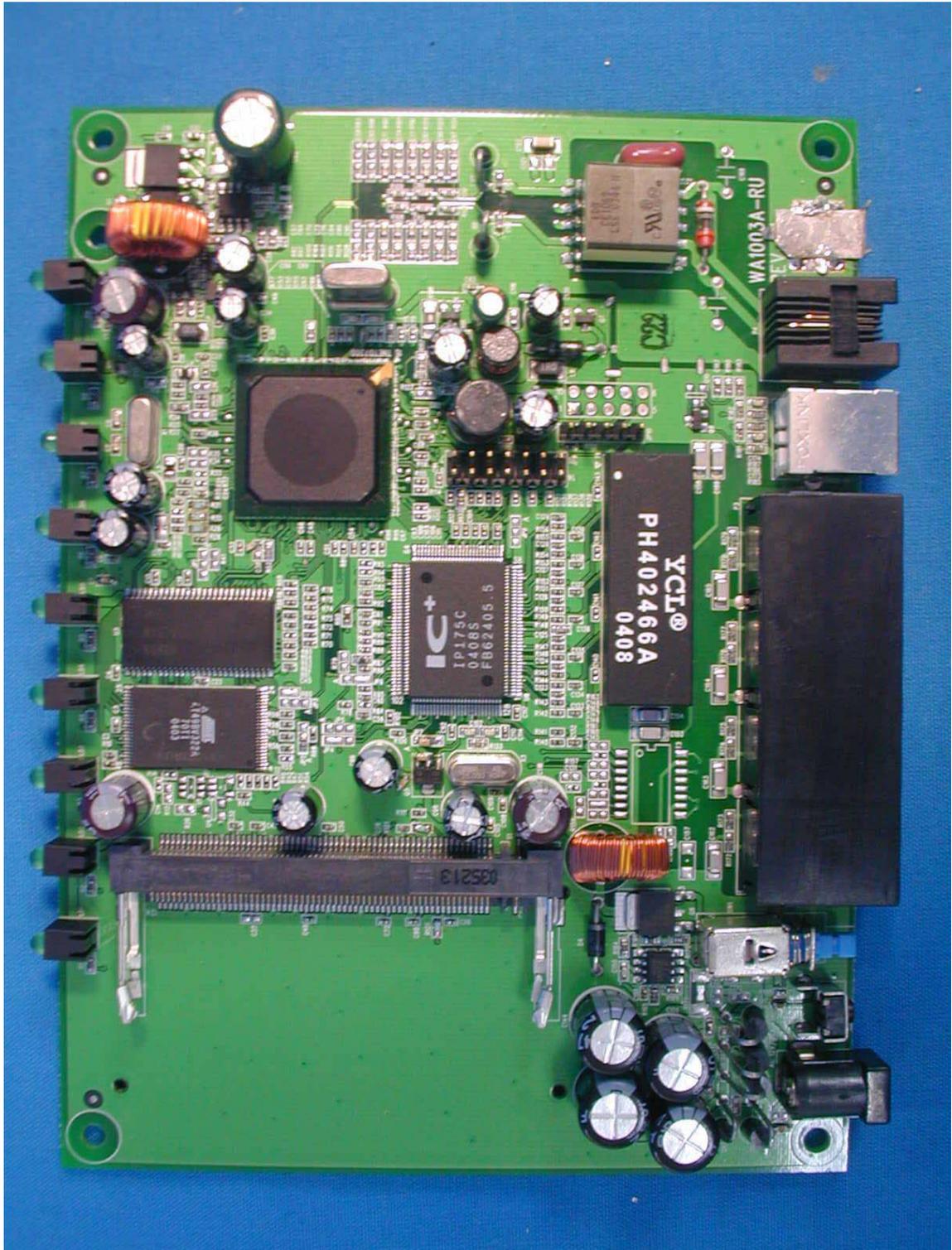
(9) EUT Photo



(10) EUT Photo



(11) EUT Photo



(13) EUT Photo

Power Adapter: KTEC

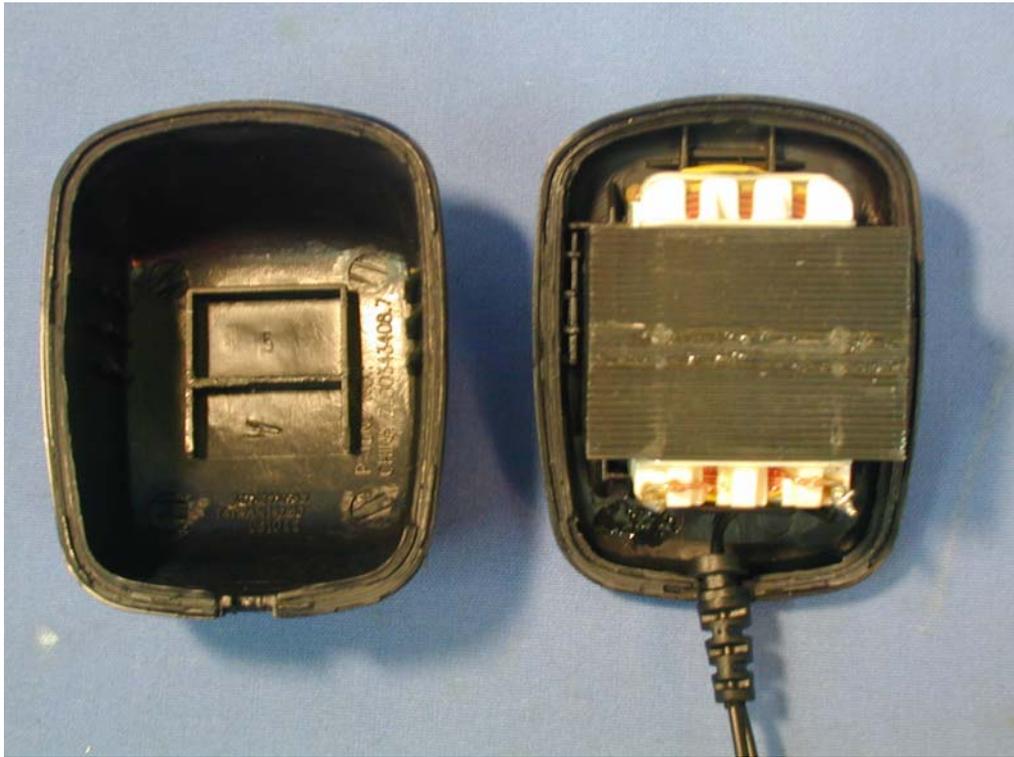


(14) EUT Photo

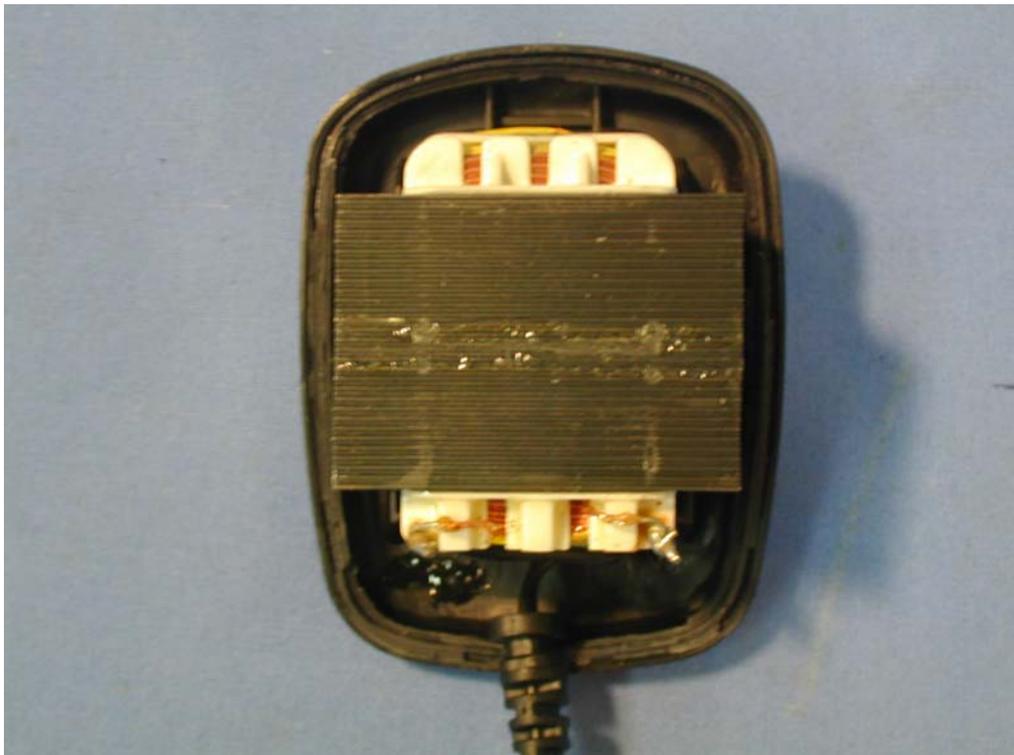


(15) EUT Photo

Power Adapter: KTEC



(16) EUT Photo



(17) EUT Photo

Power Adapter: KTEC



(18) EUT Photo



(19) EUT Photo

Power Adapter: POTRANS



(20) EUT Photo

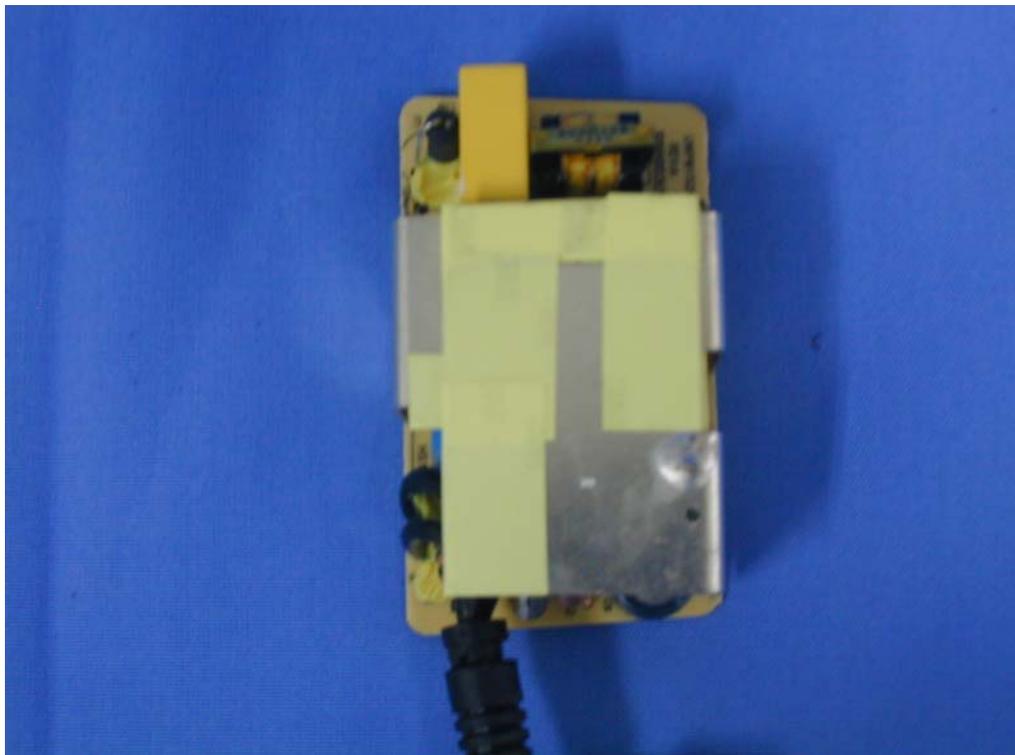


(21) EUT Photo

Power Adapter: POTRANS



(22) EUT Photo



(23) EUT Photo

Power Adapter: POTRANS

