



EMC - Test Report (FCC)

Model: YC-201

FCC ID	PP5YC201		
Product type	VDSL Modem	Serial No.	-
Applicant	Youngwoo Telecom Co., Ltd.		
Address	3F, SeHwa B/D, 355-1, Yatap-Dong, Bundang-Ku, Sungnam-Si, Kyungki-Do, Korea		
Manufacturer	Youngwoo Telecom Co., Ltd.		
Address	3F, SeHwa B/D, 355-1, Yatap-Dong, Bundang-Ku, Sungnam-Si, Kyungki-Do, Korea		
Test specification : FCC Part15 Subpart B Class B (Standard)			
Test Result : In compliance			
Tested by (Test engineer)		Reviewed by (EMC Technical Manager)	
2001-07-23	Young Joon, Park	2001-07-23	James, Hong
Date	Name	Date	Name
	Signature		Signature
Definition ☒ : Applicable, ☐ : Not Applicable, N/A : Not Applicable, - : Not Applicable			

The test result only responds to the tested sample.

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CERTITEK STANDARDS LABORATORY CO., LTD.



Table of contents

1. EUT description	3
Introduction	3
Identification	3
Electrical rating	3
2. Test Set-up.....	4
Test Mode	4
Cable configuration	4
Cable description	5
Auxiliary equipment	5
Test software	5
Measurement Procedures	6
3. Test Result	7
Test summary	7
Radiated emission	8
Conducted emission	9



1. EUT description

Introduction

YC-201 is a VDSL Modem.

Identification

Receipt date : 2001-04-17

Model : YC-201

Manufacturer : Youngwoo Telecom Co., Ltd.

Address : 3F, SeHwa B/D, 355-1, Yatap-Dong, Bundang-Ku, Sungnam-Si, Kyungki-Do, Korea

Contact person : Mr. Hong-Bong Kim / Senior Engineer

Telephone : +82-31-703-7118

Serial No : -

EUT Size : 108.00 (W) x 140.00 (D) x 32.35 (H) mm

Peripheral Device Ports

Port name	Description
PHONE	Telephone Port
LINE	VDSL Line Port
DC 5V	Adaptor Port
LAN	Ethernet Port

Electrical rating

Input : 5Vdc, 1A

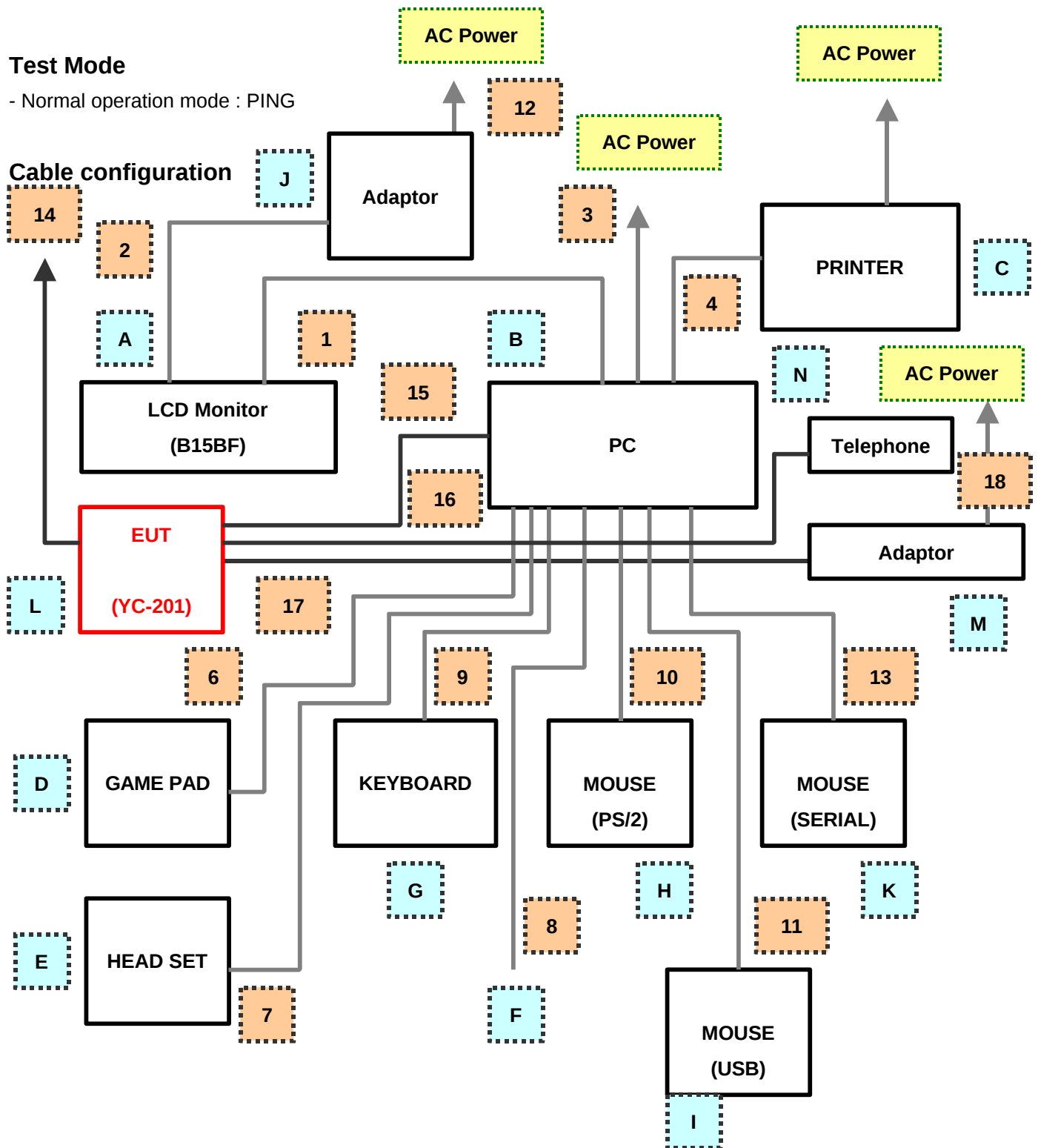
Output : -



2. Test Set-up

Test Mode

- Normal operation mode : PING



**Cable description**

	Cable name	Type	Length (m)	Remark
1	Video Cable	Shielded	1.6	Ferrite core
2	EUT Power Cable	Unshielded	2.0	-
3	PC Power Cable	Unshielded	2.0	-
4	Parallel Cable	Shielded	2.0	-
5	Printer Power Cable	Unshielded	2.0	-
6	Game Pad Cable	Unshielded	2.0	-
7	Head Set Cable	Unshielded	2.0	-
8	Line in Cable	Unshielded	2.0	-
9	Keyboard Cable	Unshielded	2.0	-
10	Mouse (PS/2) Cable	Unshielded	2.0	-
11	Mouse (USB) Cable	Unshielded	2.0	-
12	Adaptor Power Cable	Unshielded	2.0	-
13	Mouse (Serial) Cable	Unshielded	2.0	-
14	VDSL Cable	Unshielded	20.0	-
15	Ethernet Cable	Unshielded	2.0	-
16	Telephone Cable	Unshielded	2.0	-
17	Adaptor	Unshielded	2.0	-
18	Adaptor Power Cable	Unshielded	2.0	-

Auxiliary equipment

	Description	Model name	Serial No.	Manufacturer	FCC ID or DoC Info
A	LCD Monitor	B15BF	-	HANSOL	MSAB15BF
B	PC	DTPC-17	G1703009	HEWLETT PACKARD	DoC
C	Printer	C4530A	US7A91703J	HEWLETT PACKARD	DoC
D	Game pad	Side Winder	03421317	MICROSOFT	C3KMGP1
E	Headset	Hi-sonic	-	-	N/A
F	Line In	-	-	-	N/A
G	Keyboard	SK-2502C	M000351491	HEWLETT PACKARD	DoC
H	Mouse (PS/2)	M-S48	LZA84601000	LOGITECH	JNZ201213
I	Mouse (USB)	M-BB48	LZE93853157	LOGITECH	DoC
J	Adaptor	API-208-98010	0005670039	ACBEL	N/A
K	Mouse (Serial)	M-S48	LZA91153127	SOTEC	DZL211153
L	EUT	XV1000	-	DXO Telecom	PPYXV1000
M	Adaptor	AP05i-US	1G16A02	ANAM	N/A
N	Telephone	SP-F02	-	SAMSUNG	N/A

Test software

Software name	Manufacturer	Version	Description
PING	MicroSoft	-	Network Check



Measurement Procedures

Preliminary AC power line conducted emissions tests were performed shielded room. To find worst mode, several typical mode and typical cable position were tested.

Final AC power line conducted emissions test was performed shielded room. (location is same as Preliminary test)

Based on the preliminary tests of the EUT, final test was proceeded worst case test mode and cable configuration.

Preliminary radiated emissions test were performed anechoic chamber (Distance of antenna and EUT was 3m). To find worst mode, several typical mode and typical cable position were tested and peak level and frequency were recorded.

Final radiated emissions test was performed Open Area Test Site. Based on the preliminary tests of the EUT, final test was proceeded worst case test mode and cable configuration.

* Measurement procedures was In accordance with ANSI C63.4-1992 7.2.3, 7.2.4 and 8.3.1.1, 8.3.1.2



Test Report No. CTK01-F067

Certitek Standards Laboratory Co., Ltd.

VCCI Registration No. R-948, C-986

FCC Registration No. 93250

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Page 7 of 7

3. Test Result

Test summary

Test	Result	Remark
Emission test (EMI)		
Radiated emission	Met	
Conducted emission	Met	

Measurement uncertainty (k=2)

150kHz~30MHz: ± 2.68 , 30MHz~300MHz: +4.58, -4.66, 300MHz ~ 1GHz: +3.78, -3.74

Uncertainty parameter was calculated according to 'NAMES Publication NIS 80'

The tested YC-201 fully meets the Requirements of ANSI C63.4-1992 , when operated as described in this report.

**Radiated emission**Test result: **Met**

Date of testing : 2001-07-19

Ambient temperature: 28°C, Relative humidity: 43%, Atmospheric pressure: 1003hPa(mbar)

Test site type: Open area test site

Reference Standard: FCC Part15 Subpart B , Class B

Test and measurement equipment (Main equipment)

Model name	Manufacturer	Description	Serial No.
3146	EMCO	Biconical antenna	9607-4567
3110B	EMCO	Log-periodic antenna	9607-2564
ESVS30	Rohde Schwarz	Field strength meter	826638/008

Frequency Band 30MHz - 1000MHz

Instrument settings IF Band Width : 120KHz

Antenna distance 3m (From the EUT)

Test data sheet (Quasi-Peak reading)

Frequency [MHz]	Reading [dBuV/m]	Pol.	Height [m]	Correction Factor		Limits [dBuV/m]	Result [dBuV/m]	Margin [dB]
				Antenna	Cable			
75.20	21.6	V	1.0	8.90	1.00	40.0	31.50	8.50
100.20	24.6	V	1.0	10.20	1.00	43.5	35.80	7.70
100.20	20.0	H	4.0	10.20	1.00	43.5	31.20	12.30
125.20	21.6	V	1.2	11.55	1.10	43.5	34.25	9.25
175.10	15.6	V	1.0	13.10	1.60	43.5	30.30	13.20
200.10	15.2	H	3.6	15.00	1.60	43.5	31.80	11.70
326.30	17.9	V	1.2	15.18	2.60	46.0	35.68	10.32
375.30	16.0	V	1.0	15.40	2.70	46.0	34.10	11.90
501.30	16.2	V	1.1	17.90	3.50	46.0	37.60	8.40
525.80	15.5	H	2.0	18.14	3.50	46.0	37.14	8.86
576.50	15.3	H	2.5	18.72	3.70	46.0	37.72	8.28
951.00	10.2	H	2.5	23.00	4.90	46.0	38.10	7.90

Comment: -

**Conducted emission**Test result: **Met**

Date of testing : 2001-07-20

Ambient temperature: 24°C, Relative humidity: 38%, Atmospheric pressure: 1003hPa(mbar)

Test site type: Shielded room

Reference Standard: FCC Part15 Subpart B , Class B

Test and measurement equipment (Main equipment)

Model name	Manufacturer	Description	Serial No.
3825/2	EMCO	LISN	9206-1971
ESHS30	Rohde Schwarz	Field strength meter	828144/002
-	-	-	-

Frequency Band 450KHz - 30MHz

Instrument settings IF Band Width : 9KHz

Test data sheet (Quasi-Peak reading)

Frequency [MHz]	Correction Factor		Line	Quasi-peak				Average			
	LISN	Cable		Limit	Reading	Result	Margin	Limit	Reading	Result	Margin
				[dBuV]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dB]
0.60	0.20	0.10	N	48.00	40.29	40.59	7.41				
1.00	0.20	0.10	N	48.00	39.14	39.44	8.56				
2.10	0.30	0.10	N	48.00	41.98	42.38	5.62				
2.20	0.30	0.10	N	48.00	41.55	41.95	6.05				
3.70	0.30	0.10	N	48.00	36.19	36.59	11.41				
9.21	0.30	0.10	N	48.00	34.17	34.57	13.43				
16.23	0.20	0.20	N	48.00	36.20	36.60	11.40				
23.13	0.60	0.40	N	48.00	44.65	45.65	2.35				

Comment: -



Test data graphic

