

Underwriters Laboratories Inc.

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Project:09CA47215File:TC8329Report:09CA47215-FCCDate:November 17, 2009Model:Ethernet Access Residential Unit 1114

FCC Certification Report

For

WDM-PON ONT

LG-NORTEL CO., LTD. LG R&D Complex 533 Hogye-1dong, Dongan-gu, Anyang-si, Kyungki-do, 431-749, Korea

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Project Number:	09CA47215	File Number	TC8329	Page	2 of 18
Model Number:	Ethernet Access F	Residential Unit 111	4		

TEST REPORT DETAILS

Test Report No.	09CA47215-FCC
Tests Performed By:	UL Korea Ltd. 33 rd FL. Gangnam Finance Center, 737 Yeoksam-dong, Kangnam-ku, Seoul, 135-984, Korea
Test site:	LG-Nortel Co. Ltd.(Test Laboratory) 299, Kongdan-Dong, Gumi, Kyungsangbuk-Do, KOREA
Applicant:	LG-Nortel Co. Ltd. LG R&D Complex 533 Hogye-1dong, Dongan-gu, Anyang-si, Kyungki-do, 431-749, Korea
Applicant Contact: Title: Phone: E-mail:	Mr. Young-Ho Son Chief Research Engineer 82-31-450-4263 yhsonb@lg-nortel.com
Test Report Date:	November 17, 2009
Product Type:	WDM-PON ONT
FCC ID:	TUIEARU1114
Product standards	FCC 47CFR Part 15 Subpart B Class B
FCC Classification :	Class B Digital Device
FCC Procedure :	Certification
Model Number:	Ethernet Access Residential Unit 1114
Additional model Number:	Ethernet Access Residential Unit 1113 This report covers multi-model name which is identical to the basic model according to the manufacturer's specification.
Trade Name:	🔁 LG-NØRTEL
Sample Serial Number:	None (Proto type)
Sample Receive Date:	October 26, 2009
Testing Start Date:	October 26, 2009
Date Testing Complete:	October 30, 2009
Overall Results:	PASS

UL Korea Ltd. reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. UL Korea Ltd. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from UL Korea Ltd. issued reports.

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TEST SUMMARY

Test Result

Requirement – Test	Reference standards	Result	Verdict
Conducted Disturbance at the mains ports	FCC Part 15 Subpart B, Class B	Pass	Complied
Radiated Disturbance		Pass	Complied

The tests listed in the Summary of Testing section of this report have been performed and the results recorded by UL Korea, Ltd. in accordance with the procedures stated in each test requirement and specification. The applicant determined the list of tests performed were applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

The equipment under test has

 \boxtimes met the technical requirements

not met the technical requirements

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Tested by Jeawoon, Choi, Senior Project Engineer Conformity Assessment Services - 3014ASEO UL Korea Ltd. November 17, 2009

Kayang tam

Reviewed by Kyungyong, Kim, EMC Section Manager Conformity Assessment Services - 3014ASEO UL Korea Ltd. November 17, 2009

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UL Korea, Ltd. 33rd FL, Gangnam Finance Center, 737 Yeoksam-dong, Gangnam-gu, Seoul 135-984 Korea Tel: +82.2.2009.9000, Fax:+82.2.2009.9405 EMC Report Generator Trial Version 1.2 June-06.

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1. EQUIPMENT UNDER TEST(EUT)

1.1 Equipment Description

The EA 1100 solution goes beyond traditional Fiber to the Home (FTTH) or Ethernet to the Home (ETTH), providing Ethernet over Wavelength Division Multiplexing-Passive Optical Networks (WDM-PON). The EA 1100 delivers a dedicated symmetrical upstream and downstream bandwidth capacity that is orders of magnitude above that of Time Division Multiplexing (TDM)-based PON solutions, while overcoming the fiber availability and/or termination density challenges associated with making Ethernet and FTTH an accessible reality to any number of end-users.

In an Ethernet over WDM access solution, a single wavelength is re-directed to an end user from the central office through a passive wavelength router located in the outside plant (OSP). Unlike TDM PON, wavelengths are point-to-point and independent of each other, enabling symmetrical bandwidth from the distribution hub to the home.

The EA 1100 supports 32 wavelengths of 100 Mbps or 16 wavelengths of 1Gbps on a single fiber. With a reach of 20 km, each point-to-point connection covers

the vast majority of residential deployments and enables the capture of business services and wireless backhaul traffic. About service application, it can be set to 100 Mbps for residential service or can be set to 1 Gbps to service a large enterprise or multi-dwelling building.

Equipped with passive wavelength filters and "plug-n-play" colorless Optical Network Terminals (ONTs), the EA 1100 solution is free of the deployment, operations, and engineering complexities associated with other WDM PON systems.

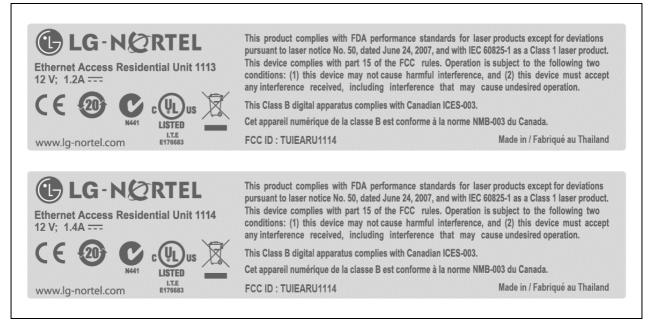
Optical cable	Single mode optical fiber			
Line Rate	125 Mbps			
Ooptical Interface	SC/APC connetor			
Optic Transceiver	C band : Uplink, L band : Downlink			
Power	12V 1.3A			
Ethernet Port				
Operation mode	Fast Ethernet / Auto-Negotiation Mode			
Electrical interface	RJ-45 connector			
POTS port				
Electrical interface	RJ-11 connector			

The following are the technical specification of the ONT product

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1.2 Equipment Marking Plate



1.3 Equipment Used During Test

Use*	Product Type	Manufacturer	Model	Comments
EUT	WDM-PON ONT	LG-NORTEL Co., Ltd.	Ethernet Access Residential Unit 1114	-
SIM	WDM-PON OLT	LG-NORTEL Co., Ltd	Ethernet Access Service Terminal 1100 R4	-
SIM	WDM-PON ONU	LG-NORTEL Co., Ltd	Ethernet Access Business Unit 2113	-
AE	AC Power Adapter	Weihai Sunlin Electronics.	SR693J01	-
AE	Uninterruptible Power Supply	Cyberpower system,Inc	CS24U12V	
SIM	Remote Node	LG-NORTEL Co., Ltd	WPF 1132	-
SIM	Data Quality Analyzer	Anritsu	MD1230A	-
* Note:	EUT - Equipment Under Te	est, AE - Auxiliary/Associated H	Equipment, SIM - Simulator (Not Subj	ected to Test)

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1.4 Input/Output Ports

Port	Name	Type*	Cable	Cable	Comments		
#			Max. >3m	Shielded			
1	Mains Power Input	AC	< 3m	Unshielded	Connected with EUT/Adaptor		
2	Fiber Optic	TP	>10 m	Optic cable	Connected to RN (OPTICAL)		
3	Fast Ethernet	ТР	>10 m	Unshielded	Connected to Data Quality Analyzer		
4	POTS	ТР	>10m	Unshielded	Connected to Telephone/Indoor		
Note:	Note:						
*AC =	AC Power Port	DC =	= DC Power Por	t $N/E = N$	Non-Electrical		

I/O = Signal Input or Output Port (Not Involved in Process Control) TP = Telecommunication Ports

1.5 EUT Internal Operating Frequencies:

Frequency (MHz)	Description	Frequency (MHz)	Description
25	Main PBA	33	Main PBA
125	Main PBA	-	-

1.6 Power Interface:

Mode #	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
Rated	100-240Vac	1	-	50 - 60HZ	Single Phase	Input of AC/DC Adapter
Kaleu	120V ac	0.75	-	60HZ	Single Phase	Input of UPS Power supply
1	120Vac	-	-	60HZ	Single Phase	Input of AC/DC Adapter
2	120V ac	-	-	60HZ	Single Phase	Input of UPS Power supply

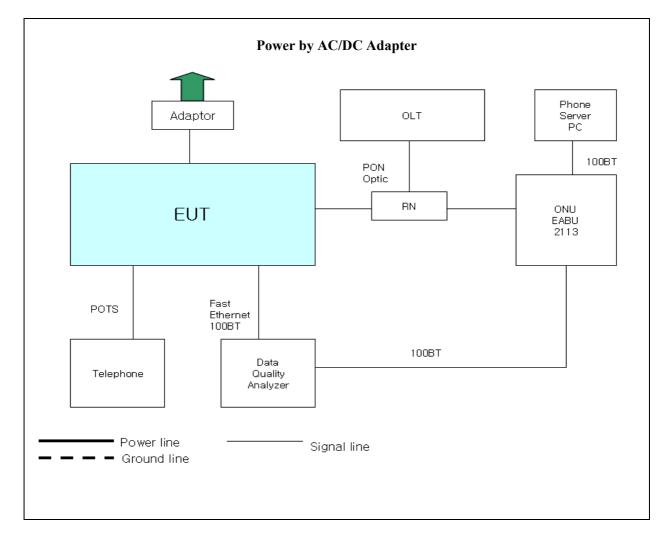
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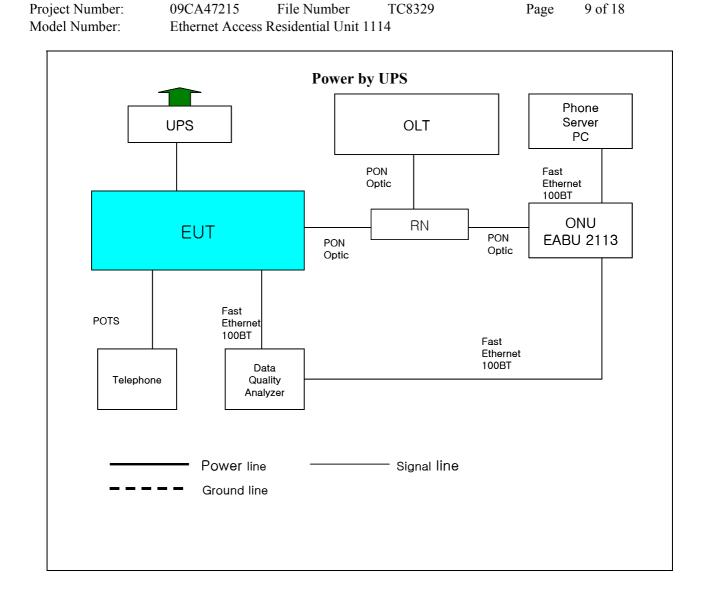
2. EUT Operation Modes:

Mode #	Description
1	Communication link and Data transmission function Emission & Immunity tests have been performed by establishing optic communication links between ONT and OLT PI through RN interface. To simulator and check the optic communication link quality, the Data Quality Analyzer(MD1230A) was used for Ethernet packet data sending / receiving of 100 Mbps LAN port. Telephone was connected to POTS port and Phone service was established Through Phone server.

3. EUT Configurations:



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4. CONDUCTED EMISSION

	TEST: Limits of mains terminal disturbance voltage							
Method	system	Measurements were made on a ground plane that extends 1-meter minimum beyond all sides of the system under test. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.						
			Test Environment					
Parameters 1	recorded	during the test	Laboratory Ambient Tem	perature		24 °C		
			Relative Humidity			43 %		
			Frequency range on each	side of line	Me	asurement Point		
Fully configured sample scanned over the following frequency range			150kHz to 30M	Hz	Ma	lains Power Input		
			Limits - Class A	·				
_			Limit (dBµV)				
Frequency (MHz)	Quasi-Peak	Results	Average		Results		
0.15 to	0.50	79	N/A	66		N/A		
0.50 to	o 30	73	N/A	60		N/A		
			Limits - Class B					
			Limit (dBµV)				
Frequency (MHz)	Quasi-Peak	Results	Averag	;e	Results		
0.15 to	0.50	66 to 56	Pass	56 to 4	6	Pass		
0.50 to	o 5	56	Pass	46		Pass		
5 to 3	30	60	Pass 50			Pass		

Test Equipment Used										
Description Manufacturer Model Identifier Cal. Date Cal										
Test Receiver Rohde&Schwarz		ESI	834000/002	2008. 11. 18	2009. 11. 18					
LISN EMCO		3825/2	9502-2334	2009. 06. 18	2010. 06. 18					
ISN	T800	Teseq GmbH	26085	2009. 06. 18	2010. 06. 18					

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Table 1. Test data for conducted emission :

AC/DC Adapter mode

Test Frequency	Correction Factor (dB)		Quasi-Peak (dBuV)			Average (dBuV)		
(MHz)	LISN	Cable	Limit	Test Result	Line	Limit	Test Result	Line
0.1843	0.00	0.03	79	42.0	L2	66	33.2	L2
0.2452	0.00	0.03	79	38.6	L1	66	34.5	L2
0.3057	0.00	0.03	79	36.8	L1	66	32.5	L1
2.8798	0.01	0.12	73	38.2	L1	60	33.1	L1
3.8249	0.01	0.13	73	37.5	L2	60	32.2	L2
15.1601	-0.10	0.25	73	43.1	L2	60	42.3	L2
17.9915	-0.12	0.28	73	40.3	L2	60	39.9	L2
29.8820	-0.17	0.39	73	45.7	L1	60	44.5	L1
Note:			1	1	1		1	

1. Margin (dB)= Limit (dBuV) - Level (dBuV)

2. If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

UPS Power supply mode

Test Frequency	Correction Factor (dB)		Qı	Quasi-Peak (dBuV)			Average (dBuV)		
(MHz)	LISN	Cable	Limit	Test Result	Line	Limit	Test Result	Line	
0.2090	0.00	0.03	79	47.2	L1	66	39.1	L1	
0.2014	0.00	0.03	79	47.7	L2	66	37.2	L2	
0.2974	0.00	0.03	79	41.4	L2	66	33.1	L2	
0.3504	0.00	0.04	79	39.2	L2	66	29.6	L1	
0.4106	0.00	0.04	79	39.0	L2	66	29.3	L2	
0.5490	0.00	0.05	73	37.0	L2	60	25.4	L2	
15.5692	-0.10	0.25	73	47.5	L2	60	47.3	L2	
29.8262	-0.17	0.39	73	41.9	L2	60	40.6	L2	
Note:	lote:								

1. Margin (dB)= Limit (dBuV) - Level (dBuV)

2. If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

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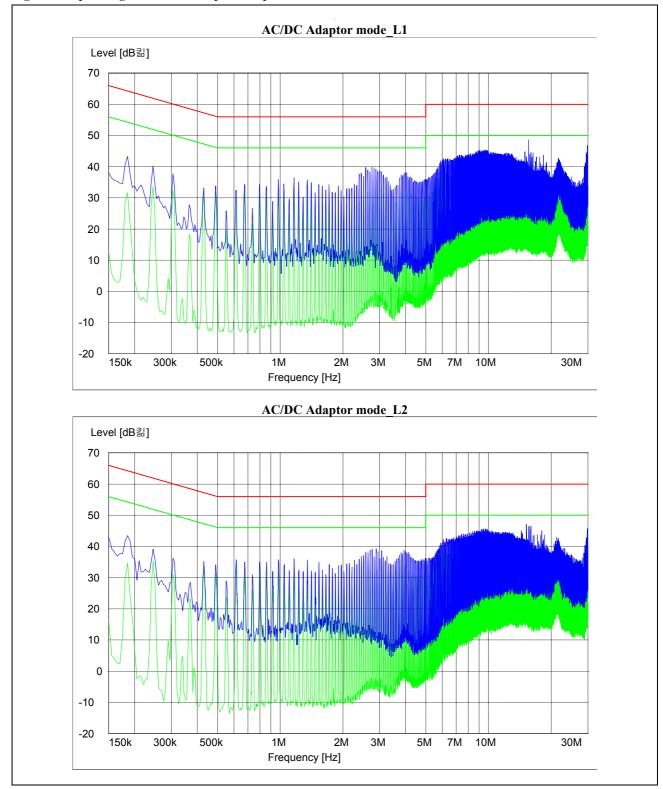
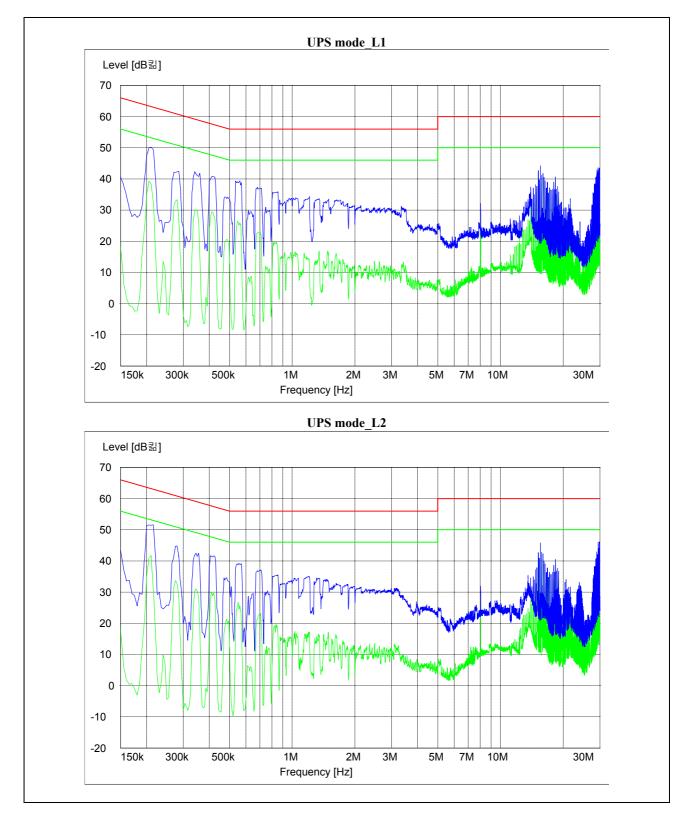


Figure 1. Operating condition : Graphical representation of conducted emissions

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5. RADIATED EMISSION

		TEST: Limits for radiated dis	turbance	
Method	Preliminary (peak) meas and 3-meter. The EUT v and 4 meter heights in be average as noted) were t	le at 10m Anechoic chamber that compurements were performed at an antenn vas rotated 360° about its azimuth with the horizontal and vertical polarities. If hen performed by rotating the EUT 36 s. All frequencies were investigated in le.	a to EUT a the recein final meas 0° and adj	separation distance of 10-meter ve antenna located at 1, 2, 3 urements (quasi-peak or usting the receive antenna
		TEST ENVIRONMENT		
Parameters	s recorded during the test	Laboratory Ambient Temperature		24 °C
		Relative Humidity		43 %
	igured sample scanned over	Frequency range		Measurement Point
the followi	ing frequency range	30MHz – 2GHz		Product Enclosure
		Limits - Class A		
		Limit (dBµV/m)	
F	Frequency (MHz)	Quasi-Peak		Results
	30 to 230	40		N/A
	230 to 1000	47		N/A
	1000 to 2000	60/80(AV/Peak, 3m distance)		N/A
		Limits - Class B		
		Limit (dBµV/m)	
F	Frequency (MHz)	Quasi-Peak(10m distance)		Results
	30 to 230	30		Pass
	230 to 1000	37		Pass
	1000 to 2000	54/74(AV/Peak, 3m distance)		Pass
Supplemen	ntary information:		•	

	Test Equipment Used							
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due			
EMI Test Receiver	Rohde&Schwarz	ESI	834000/002	2008. 11. 18	2009. 11. 18			
BiconiLog Antenna	EMCO	3142B	9910-1432	2009. 06. 18	2010. 06. 18			
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-539	2008.03.24	2010. 03. 24			
Antenna Mast	EMCO	1084	862557/010	N/A	N/A			
A/M&T/T Controller	EMCO	1090	N/A	N/A	N/A			

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Table 3. Radiated emission Test data :

[AC/DC Adaptor mode]: 30MHz ~ 1GHz_10m distance

Test Frequency (MHz)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Deg.)	Antenna Height (m)	Cable Loss (dB)	Antenna Factor (dB/m)	Level dBuV/m	Limit dBuV/m
47.60	QP	V	320	1.0	0.94	8.83	23.31	30
58.10	QP	V	261	3.1	1.04	6.78	22.44	30
107.54	QP	V	279	1.0	1.43	7.36	21.80	30
165.12	QP	V	93	1.0	1.77	9.02	27.29	30
375.04	QP	V	0	4.0	2.66	15.48	30.66	37
500.04	QP	Н	355	2.1	3.04	18.45	36.16	37
625.04	QP	Н	333	1.4	3.41	21.00	33.92	37
750.10	QP	Н	284	1.0	3.73	22.44	35.20	37

[AC/DC Adaptor mode]:	1GHz ~ 2GHz_3m distance

Test Frequency (GHz)	Polarity (V/H)	Antenna Height (m)	Cable Loss (dB)	Antenna Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Limit (dBuV/m)
1.0003	V	1.0	4.43	24.40	45.94	38.80	54
1.0507	V	1.0	4.45	24.57	43.38	35.86	54
1.0663	V	1.0	4.45	24.57	46.45	36.02	54
1.0882	V	1.0	4.60	24.74	43.49	35.43	54
1.1257	V	1.0	4.65	24.90	48.40	42.56	54
1.7509	V	1.0	6.29	26.91	48.23	41.18	54

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Test Frequency (MHz)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Deg.)	Antenna Height (m)	Cable Loss (dB)	Antenna Factor (dB/m)	Level dBuV/m	Limit dBuV/m
124.98	QP	V	151	4.0	1.54	6.81	26.87	30
148.84	QP	V	118	1.0	1.67	7.92	23.75	30
169.50	QP	V	87	1.0	1.79	9.15	26.96	30
250.04	QP	V	115	1.0	2.18	11.77	33.38	37
375.04	QP	V	149	1.0	2.66	15.48	30.49	37
500.04	QP	V	173	3.7	3.04	18.45	31.87	37
625.04	QP	V	345	3.9	3.41	21.00	30.21	37
750.01	QP	Н	317	2.2	3.73	22.44	28.42	37

[UPS Power supply mode]: $30MHz \sim 1GHz_{10m}$ distance

[UPS Power supply mode]: $1GHz \sim 2GHz_3m$ distance

Test Frequency (GHz)	Polarity (V/H)	Antenna Height (m)	Cable Loss (dB)	Antenna Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Limit (dBuV/m)
1.0006	V	1.0	4.43	24.40	48.68	41.27	54
1.0258	V	1.0	4.45	24.57	46.78	34.32	54
1.0372	V	1.0	4.45	24.57	44.92	37.19	54
1.0507	V	1.0	4.45	24.57	46.01	38.32	54
1.0633	V	1.0	4.45	24.57	47.66	37.82	54
1.1257	V	1.0	4.65	24.90	49.89	43.81	54
1.1878	V	1.0	4.78	25.07	47.87	38.66	54
1.7509	V	1.0	6.29	26.91	47.47	39.23	54
1.7740	V	1.0	6.29	26.91	47.59	40.00	54

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Appendix A_Accreditations and Authorizations



KCC: Designated as a testing laboratory by Radio Research Agency in accordance with the Regulation on Designation of Testing Laboratory for Information and Communication Equipment. Registration No. : KR020



FCC: Details of the measurement facilities used for these tests have been filed with the Federal Communications Commission's Laboratory in Columbia, Maryland and accepted in a letter dated May 30, 2007 (Reg. No. 90762). As a Conformity Assessment Body (CAB), our organization is designated to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Part 15 and 18 of the Commission's Rules in a letter dated September 6, 2006 (Reg. No. 614154).

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Appendix B_Measurement Uncertainties

Test	Uncertainty
Radiated Emissions	±4.08 dB
Conducted Emissions	±2.0 dB

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