

PCTEST Engineering Laboratory, Inc.

6660-B Dobbin Road • Columbia, MD 21045 • U.S.A.

TEL (410) 290-6652 • FAX (410) 290-6654

<http://www.pctestlab.com>



CERTIFICATE OF COMPLIANCE

LG Information & Communications, Ltd.

73, Hyang jeoung-dong, Hungduk-gu

Cheongju, 361-726, KOREA

Attn: Yu-Sung, Sim, Associate Research Engineer

Quality Engineering Dept. / Research Laboratory

Dates of Tests: July 21-23, 1999

Test Report S/N: 15.990721442.FFM

Test Site: PCTEST Lab, Columbia, MD

FCC IDENTIFIER

FFMCKTU9017-15

APPLICANT

LG Information & Communications, Ltd.

FCC Rule Part(s):	15.249 Subpart C; ANSI C-63.4 (1992)
Classification:	Cordless Telephone System (ETS)
EUT Type:	900MHz Analog Cordless Key Telephone Unit (Base/Handset)
Frequency Range(s):	926.9875 – 927.9625 MHz (Base) 902.9875 – 903.9625 MHz (Handset)
No. of Channels:	40 (902.9875 – 927.9625 MHz)
Trade Name(s):	LG, VODAVI, INFINITE, STARPLUS, TRIAD, DVX PLUS, VODAVI AIR LITE, INFINITE AIR LITE, STARPLUS AIR LITE, TRIAD AIR LITE, DVX PLUS AIR LITE
Model(s):	CKTU (LG), 9017-15 (OEM)

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C-63-4.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853(a)


Randy Ortanez
President & Chief Engineer



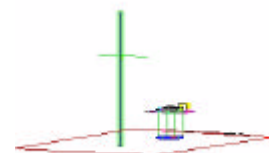
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MEASUREMENT REPORT



Scope - Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

§2.1033 General Information

Applicant:	LG Information & Communications, Ltd.
Address:	73, Hyang jeong-dong, Hungduk-gu, Cheongju, 361-726, KOREA
Attention:	Yu-Sung Sim, Associate Research Engineer Quality Engineering Dept. / Research Laboratory

- **FCC ID:** FFMCKTU9017-15
- **Trade Name(s):** LG, VODAVI, INFINITE, STARPLUS, TRIAD, DVX PLUS, VODAVI AIR LITE, INFINITE AIR LITE, STARPLUS AIR LITE, TRIAD AIR LITE, DVX PLUS AIR LITE
- **Model(s):** CKTU (LG), 9017-15 (OEM)
- **FCC Classification:** Cordless Telephone System (ETS)
- **Equipment Type:** 900MHz Analog Cordless Key Telephone Unit (Base/Handset)
- **Freq. Range(s):** 926.9875 – 927.9625 MHz (Base)
902.9875 – 903.9625 MHz (Handset)
- **Channels:** 40 (902.9875 – 927.9625 MHz)
- **FCC Rule Part(s):** §15.249 Subpart C, ANSI C-63.4 (1992)
- **Dates of Tests:** July 21-23, 1999
- **Place of Tests:** PCTEST Engineering Lab., Columbia, MD U.S.A.
- **Test Report Serial No.:** 15.990721442.FFM



INTRODUCTION

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-1992) and FCC Public Notice dated July 12, 1995 entitled "Guidance on Measurement for Direct Sequence Spread Spectrum Systems" were used in the measurement of **LG Information & Communications, Ltd. 900MHz Analog Cordless Key Telephone Unit FCC ID: FFMCKTU9017-15.**

These measurement tests were conducted at **PCTEST Engineering Laboratory, Inc.** facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 on October 19, 1992.

PCTEST Location

The map at right shows the location of the PCTEST Lab, its proximity to the FCC Lab, the Columbia vicinity area, the Baltimore-Washington International (BWI) airport, and the city of Baltimore, and the Washington, D.C. area. (see Figure1).

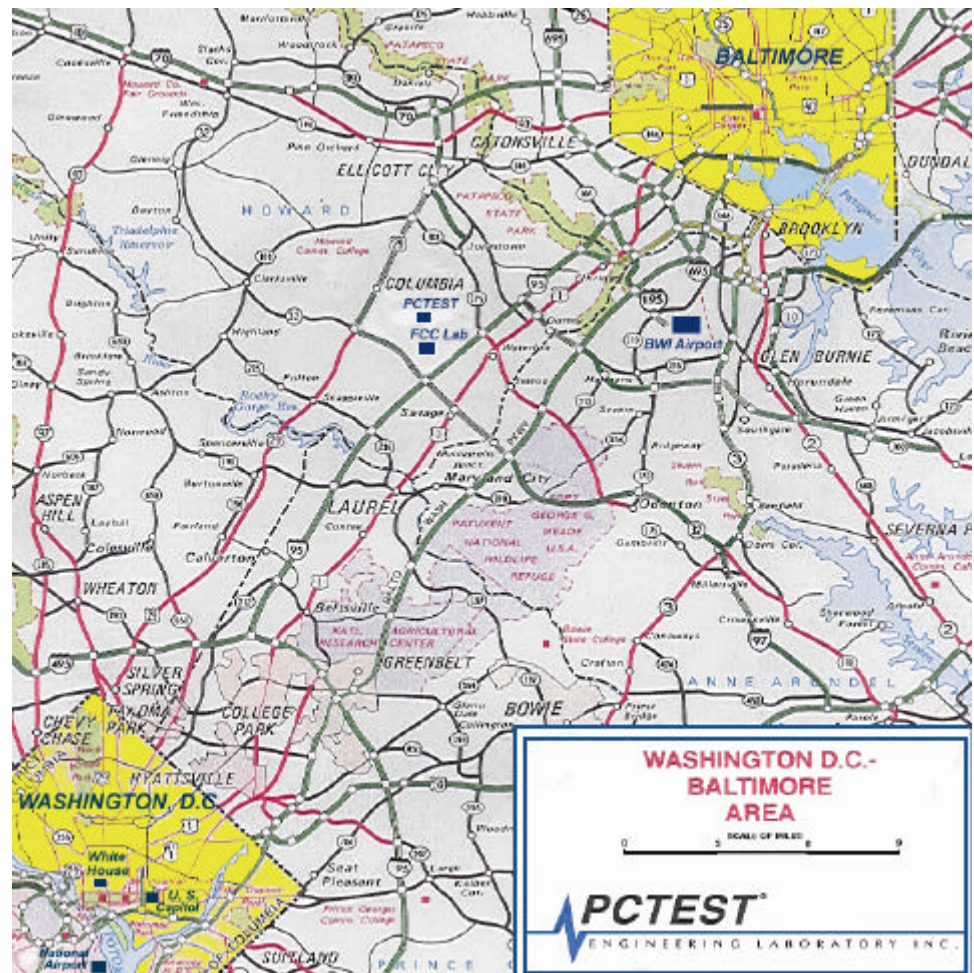


Figure 1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

PRODUCT INFORMATION

Equipment Description:

The Equipment under test (EUT) is **the LG Information & Communications, Ltd. 900MHz Analog Cordless Key Telephone Unit (Base/Handset) FCC ID: FFMCKTU9017-15.**

Tx Frequency Range(s):	926.9875 – 927.9625 MHz (Base) 902.9875 – 903.9625 MHz (Handset)
No. of Channels:	40 (902.9875 – 927.9625 MHz)
Modulation:	FM
Antenna(s):	Omni-Directional Quarter Wavelength Monopole (Base) Omni-Directional Cordless Phone Antenna (Handset)
Port(s)/Connector(s):	(2) RJ-11C, (1) DC IN 9V power jack
Power Supply:	Base Unit: AC/DC Power Adapter (SEUNG JIN Electronics Co. Model: SJ-0903D) Input: 120VAC, 60Hz 16W / Output: 9VDC 300mA Handset: Ni-MH Battery Pack (LG Model: B-1632) 3.6V 600mAh

DESCRIPTION OF TESTS

Conducted Emissions (Base unit)

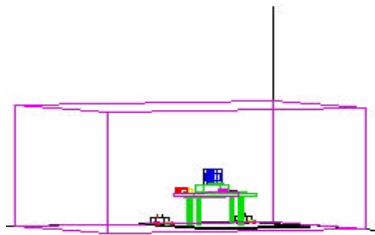


Figure 4. Shielded Enclosure
Line-Conducted Test Facility

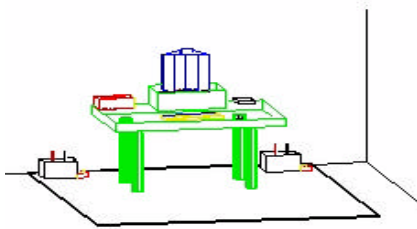


Figure 2. Line Conducted
Emission Test Set-Up

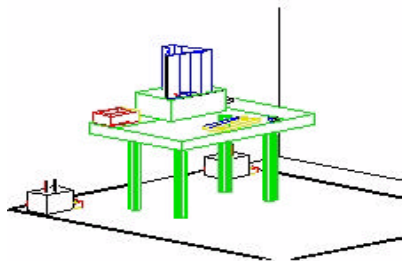


Figure 3. Wooden Table &
Bonded LISNs

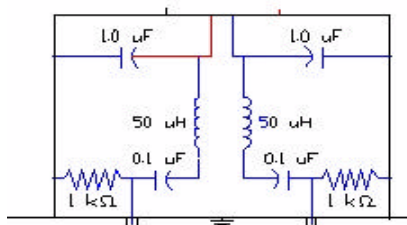


Figure 5. LISN Schematic
Diagram

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure. It is manufactured by Ray Proof Series 81 (see Figure 2). The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m. x 1.5m. wooden table 80cm. high is placed 40cm. away from the vertical wall and 1.5m away from the side wall of the shielded room (see Figure 3). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (see Figure 4). The EUT is powered from the Solar LISN and the support equipment is powered from the EMCO LISN. Power to the LISNs are filtered by a high-current high-insertion loss Ray Proof power line filters (100dB 14kHz-10GHz). The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure. All electrical cables are shielded by braided tinned copper zipper tubing with inner diameter of 1/2". If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the Solar LISN. LISN schematic diagram is shown in Figure 5. All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT. The spectrum was scanned from 450kHz to 30MHz with 20 msec. sweep time. The frequency producing the maximum level was reexamined using EMI/ Field Intensity Meter and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode. The bandwidth of the receiver was set to 10 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in the "Test Setup Photographs" attachment. Each EME reported was calibrated using the HP8640B signal generator.

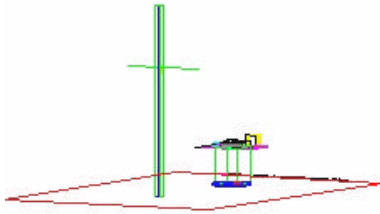


Figure 6. 3-Meter Test Site

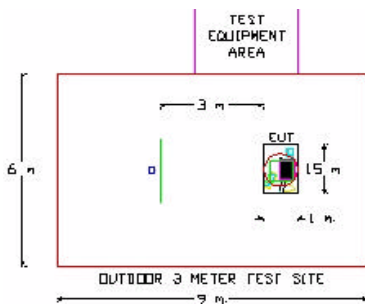


Figure 7. Dimensions of Outdoor Test Site

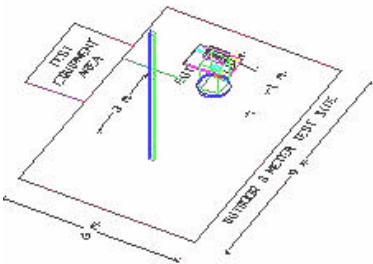


Figure 8. Turntable and System Setup

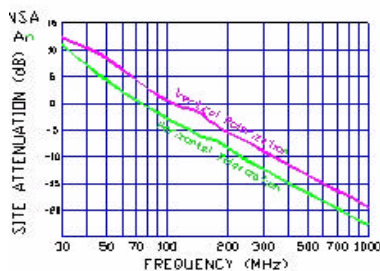


Figure 9. Normalized Site Attenuation Curves (H&V)

DESCRIPTION OF TESTS (CONTINUED)

Radiated Emissions (Base & Handset)

Preliminary measurements were made indoors at 1 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30 to 200 MHz using biconical antenna and from 200 to 1000 MHz using log-spiral antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3-meter test range using Roberts™ Dipole antennas or horn antenna (see Figure 6). The test equipment was placed on a wooden and plastic bench situated on a 1.5 x 2 meter area adjacent to the measurement area (see Figure 7). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter and Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100kHz or 1 MHz depending on the frequency or type of signal.

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table (see Figure 8). The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in "Test Setup Photographs" Attachment. Each EME reported was calibrated using the HP8640B signal generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 9.

§ 15.203 Antenna Requirement

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the applicant can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with this requirement.

n Base Unit

The LGIC base unit complies with the requirement of §15.203.

The antenna is a permanently attached Omni-Directional Quarter Wavelength Monopole Antenna.

n Handset Unit

The LGIC handset unit complies with the requirement of §15.203.

The antenna is a permanently attached Omni-Directional Cordless Phone Antenna.

For both units, there are no provisions for connection to an external antenna.

CONCLUSION:

Both Base and Handset units meet the Antenna Requirements of §15.203.

FREQUENCY MEASUREMENTS (Fundamental & Harmonics)

A. Transmitter Portion (Base)

Operating Frequency: 926.99
 Distance of Measurements: 3 meters
 Channel: 1

FREQ. (MHz)	Level* (dBm)	AFCL** (dB)	POL (H/V)	F/S (μ V/m)	DET QP/AVG	Margin*** (dB)
926.99	- 50.0	32.9	V	31260.8	Peak	- 4.1
1853.98	- 98.8	35.4	V	151.35	Peak	- 10.41
2780.97	- 108.5	39.7	V	81.28	Peak	- 15.81
3707.96	- 118.9	44.4	V	42.16	Peak	- 21.51
4634.95	< - 130.0	47.0	V	~	~	~
5561.94	< - 130.0	51.2	V	~	~	~

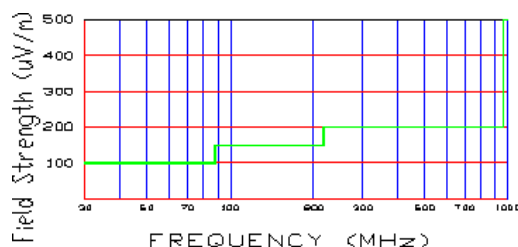


Figure 10. Harmonic Limits at 3 meters

NOTES:

1. The limit at fundamental freq. is 50,000 mV/m @ 3m. using average detector (RBW=1 MHz VBW=3Hz).
2. All emissions exceeding 20 mV/m @ 3m. are reported.
3. All spurious emissions in the restricted bands specified in §15.205 are below the limit shown in Fig. 10.
4. Measurements are made at 20°C or between +15°C to +25°C.
5. The antenna is manipulated through typical positions and length during the tests.
6. The emissions are maximized by changing polarity of the antenna.
7. The EUT is supplied with the nominal AC voltage or/and a new /fully recharged battery.
8. All channels were investigated and the worst-case are reported.

FREQUENCY MEASUREMENTS (Fundamental & Harmonics)

B. Transmitter Portion (Base)

Operating Frequency: 927.965

Distance of Measurements: 3 meters

Channel: 40

FREQ. (MHz)	Level* (dBm)	AFCL** (dB)	POL (H/V)	F/S (μ V/m)	DET QP/AV G	Margin*** (dB)
927.965	- 49.5	33.0	V	33496.6	Peak	- 3.5
1855.93	- 98.5	35.5	V	158.48	Peak	- 10.0
2783.895	- 108.4	39.8	V	83.17	Peak	- 15.61
3711.86	- 120.4	44.5	V	35.89	Peak	- 22.9
4639.825	< - 130.0	47.2	V	~	~	~
5567.79	< - 130.0	51.3	V	~	~	~

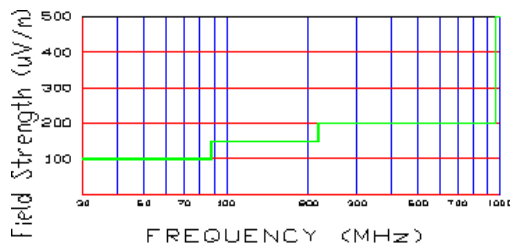


Figure 11. Harmonic Limits at 3 meters

NOTES:

1. The limit at fundamental freq. Is 50,000 mV/m @ 3m. using average detector (RBW=1 MHz VBW=3Hz).
2. All emissions exceeding 20 mV/m @ 3m. are reported.
3. All spurious emissions in the restricted bands specified in §15.205 are below the limit shown in Fig. 11.
4. Measurements are made at 20°C or between +15°C to +25°C.
5. The antenna is manipulated through typical positions and length during the tests.
6. The emissions are maximized by changing polarity of the antenna.
7. The EUT is supplied with the nominal AC voltage or/and a new /fully recharged battery.
8. All channels were investigated and the worst-case are reported.

FREQUENCY MEASUREMENTS (Fundamental & Harmonics)

C. Transmitter Portion (Handset)

Operating Frequency: 902.99 MHz
 Distance of Measurements: 3 meters
 Channel: 1

FREQ. (MHz)	Level* (dBm)	AFCL** (dB)	POL (H/V)	F/S (μ V/m)	DET QP/AVG	Margin*** (dB)
902.99	- 51.0	32.7	V	27,227.0	Peak	- 5.27
1805.98	- 92.5	34.9	V	295.12	Peak	- 4.61
2708.97	- 99.8	39.9	V	226.46	Peak	- 6.6
3611.96	- 118.0	44.3	V	46.23	Peak	- 20.7
4514.95	- 124.0	46.4	V	29.51	Peak	- 24.61
5417.94	< - 130.0	49.2	V	~	~	~

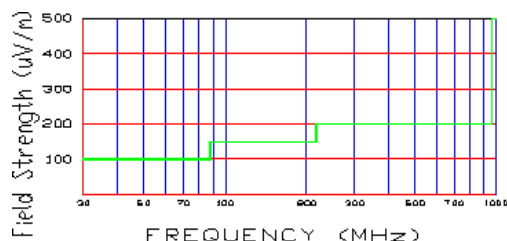


Figure 12. Harmonic Limits at 3 meters

NOTES:

1. The limit at fundamental freq. is 50,000 mV/m @ 3m. using average detector (RBW=1 MHz VBW=3Hz).
2. All emissions exceeding 20 mV/m @ 3m. are reported.
3. All spurious emissions in the restricted bands specified in §15.205 are below the limit shown in Fig. 12.
4. Measurements are made at 20°C or between +15°C to +25°C.
5. The antenna is manipulated through typical positions and length during the tests.
6. The emissions are maximized by changing polarity of the antenna.
7. The EUT is supplied with the nominal AC voltage or/and a new /fully recharged battery.
8. All channels were investigated and the worst-case are reported.

FREQUENCY MEASUREMENTS (Fundamental & Harmonics)

D. Transmitter Portion (Handset)

Operating Frequency: 903.965

Distance of Measurements: 3 meters

Channel: 40

FREQ. (MHz)	Level* (dBm)	AFCL** (dB)	POL (H/V)	F/S (μ V/m)	DET QP/AVG	Margin*** (dB)
903.965	- 51.5	32.6	V	25409.7	Peak	- 5.91
1807.93	- 99.2	34.8	V	134.89	Peak	- 11.4
2711.895	- 110.8	39.7	V	62.37	Peak	- 18.11
3615.86	- 120.1	44.2	V	35.89	Peak	- 22.9
4519.825	- 128.0	46.2	V	18.19	Peak	- 28.81
5423.79	< - 130.0	49.1	V	~	~	~
6327.755	< -130.0	51.0	V	~	~	~

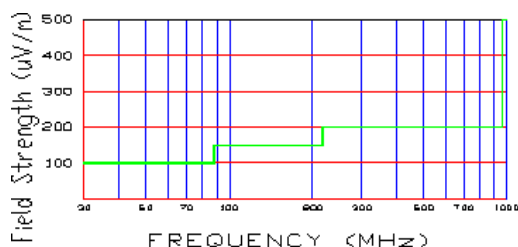


Figure 13. Harmonic Limits at 3 meters

NOTES:

1. The limit at fundamental freq. is 50,000 mV/m @ 3m. using average detector (RBW=1 MHz VBW=3Hz).
2. All emissions exceeding 20 mV/m @ 3m. are reported.
3. All spurious emissions in the restricted bands specified in §15.203 are below the limit shown in Fig. 13.
4. Measurements are made at 20°C or between +15°C to +25°C.
5. The antenna is manipulated through typical positions and length during the tests.
6. The emissions are maximized by changing polarity of the antenna.
7. The EUT is supplied with the nominal AC voltage or/and a new /fully recharged battery.
8. All channels were investigated and the worst-case are reported.

FREQUENCY MEASUREMENTS (Spurious)

E. Receiver Portion (Base & Handset)

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	Height (m)	Angle (°)	F/S (μ V/m)	Margin (dB)
41.0	- 77.0	1.4	H	3.1	30	37.2	- 8.6
98.4	- 78.8	9.4	V	2.7	80	75.9	- 5.9
106.4	- 82.3	10.2	V	2.2	90	55.6	- 8.6
139.3	- 84.4	12.9	H	2.1	210	59.6	- 8.0
315.3	- 87.9	21.1	H	1.5	80	102.3	- 5.8
441.0	- 92.7	24.7	H	1.3	200	89.1	- 7.0

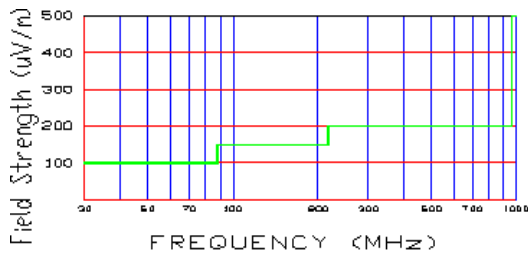


Figure 14. Spurious Limits at 3 meters

NOTES:

1. All channels were investigated and the worst-case emissions are reported.
2. All radiated spurious limits are shown in Fig. 14.
3. All spurious emissions in the restricted bands specified in §15.205 are below the limit.
4. The antenna is fully extended during the tests and the emissions are maximized by changing polarity of the antenna.
5. For hand-held devices, the EUT is rotated through three orthogonal axes to determine which configuration produces the maximum emissions.
6. The EUT is supplied with the nominal AC voltage or/and a new fully recharged battery.

TEST PLOTS

(See Attachment D)

1. Line-Conducted
2. Base Unit Channel 1
3. Handset Unit Channel 40

SAMPLE CALCULATIONS

$$\text{dB}\mu\text{V} = 20 \log_{10} (\mu\text{V}/\text{m})$$

$$\text{dB}\mu\text{V} = \text{dBm} + 107$$

EX.1

@ 20.3 MHz Class B limit = $250\mu\text{V} = 47.96 \text{ dB}\mu\text{V}$

Reading = -64.0 dBm (calibrated level)

convert to $\text{dB}\mu\text{V} = -64.0 + 43.0 \text{ dB}\mu\text{V}$

$$10^{(43/20)} = 141.3 \mu\text{V}$$

$$\text{Margin} = 43.0 - 47.96 = -4.96$$

5.0 dB below limit

EX.2

@ 121.8 MHz Class B limit = $150\mu\text{V}/\text{m} = 43.5 \text{ dB}\mu\text{V}/\text{m}$

Reading = -78.5 dBm (calibrated level)

Convert to $\text{dB}\mu\text{V}/\text{m} = -78.5 + 107 = 28.5 \text{ dB}\mu\text{V}/\text{m}$

Antenna factor + Cable Loss = 11.6 dB

Total = $40.1 \text{ dB}\mu\text{V}/\text{m}$

$$\text{Margin} = 40.1 - 43.5 = -3.4$$

3.4 dB below the limit

ACCURACY OF MEASUREMENT

The measurement uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 and NIS 81 (1994).

Contribution (Line Conducted)	Probability Distribution	Uncertainty (± dB)	
		9kHz-150MHz	150-30MHz
Receiver specification	Rectangular	1.5	1.5
LISN coupling specification	Rectangular	1.5	1.5
Cable and input attenuator calibration	Normal (k=2)	0.3	0.5
Mismatch: Receiver VRC $\Gamma_1 = 0.03$ LISN VRC $\Gamma_R = 0.8$ (9kHz) 0.2 (30MHz) Uncertainty limits $20\log(1 \pm \Gamma_1 \Gamma_R)$	U-Shaped	0.2	0.35
System repeatability	Std. deviation	0.2	0.05
Repeatability of EUT		-	-
Combined standard uncertainty	Normal	1.26	1.30
Expanded uncertainty	Normal (k=2)	2.5	2.6

Calculations for 150kHz to 30MHz:

$$u_c(y) = \sqrt{\sum_{i=1}^m u_i^2(y)} = \pm \sqrt{\frac{1.5^2 + 1.5^2}{3} + \left(\frac{0.5}{2}\right)^2 + 0.35} = \pm 1.298\text{dB}$$

$$U = 2U_c(y) = \pm 2.6\text{dB}$$

Contribution (Radiated Emissions)	Probability Distribution	Uncertainties (± dB)	
		3 m	10 m
Ambient Signals		-	-
Antenna factor calibration	Normal (k=2)	± 1.0	± 1.0
Cable loss calibration	Normal (k=2)	± 0.5	± 0.5
Receiver specification	Rectangular	± 1.5	± 1.5
Antenna directivity	Rectangular	+ 0.5 / - 0	+ 0.5
Antenna factor variation with height	Rectangular	± 2.0	± 0.5
Antenna phase centre variation	Rectangular	0.0	± 0.2
Antenna factor frequency interpolation	Rectangular	± 0.25	± 0.25
Measurement distance variation	Rectangular	± 0.6	± 0.4
Site imperfections	Rectangular	± 2.0	± 2.0
Mismatch: Receiver VRC $\Gamma_1 = 0.2$ Antenna VRC $\Gamma_R = 0.67$ (Bi) 0.3 (Lp) Uncertainty limits $20\log(1 \pm \Gamma_1 \Gamma_R)$	U-Shaped	+ 1.1 - 1.25	± 0.5
System repeatability	Std. Deviation	± 0.5	± 0.5
Repeatability of EUT		-	-
Combined standard uncertainty	Normal	+ 2.19 / - 2.21	+ 1.74 / - 1.72
Expanded uncertainty U	Normal (k=2)	+ 4.38 / - 4.42	+ 3.48 / - 3.44

Calculations for 3m biconical antenna. Coverage factor of k=2 will ensure that the level of confidence will be approximately 95%, therefore:

$$U=2u_c(y) = 2 \times \pm 2.19 = \pm 4.38\text{dB}$$

TEST EQUIPMENT

Type	Model	Cal. Due Date	S/N
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	08/15/99	3638A08713
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	04/17/00	2542A11898
Spectrum Analyzer/Tracking Gen.	HP 8591A (100Hz-1.8GHz)	06/03/00	3144A02458
Signal Generator*	HP 8640B (500Hz-1GHz)	06/03/00	2232A19558
Signal Generator*	HP 8640B (500Hz-1GHz)	08/09/99	1851A09816
Signal Generator*	Rohde & Schwarz (0.1-1000MHz)	09/11/99	8 94215/012
Ailtech/Eaton Receiver	NM 37/57A-SL (30-1000MHz)	04/12/00	0792-03271
Ailtech/Eaton Receiver	NM 37/57A (30-1000MHz)	03/11/00	0805-03334
Ailtech/Eaton Receiver	NM 17/27A (0.1-32MHz)	09/17/99	0608-03241
Quasi-Peak Adapter	HP 85650A	08/15/99	2043A00301
Ailtech/Eaton Adapter	CCA-7 CISPR/ANSI QP Adapter	03/11/00	0194-04082
RG58 Coax Test Cable	No. 167		n/a
Harmonic/Flicker Test System	HP 6841A (IEC 555-2/3)		3531A00115
Broadband Amplifier (2)	HP 8447D		1145A00470, 1937A03348
Broadband Amplifier	HP 8447F		2443A03784
Transient Limiter	HP 11947A (9kHz-200MHz)		2820A00300
Horn Antenna	EMCO Model 3115 (1-18GHz)		9704-5182
Horn Antenna	EMCO Model 3115 (1-18GHz)		9205-3874
Horn Antenna	EMCO Model 3116 (18-40GHz)		9203-2178
Biconical Antenna (4)	Eaton 94455/Eaton 94455-1/Singer 94455-1/Compliance Design 1295, 1332, 0355		
Log-Spiral Antenna (3)	Ailtech/Eaton 93490-1		0608, 1103, 1104
Roberts Dipoles	Compliance Design (1 set)		
Ailtech Dipoles	DM-105A (1 set)		33448-111
EMCO LISN	3816/2		1079
EMCO LISN	3816/2		1077
EMCO LISN	3725/2		2009
Microwave Preamplifier 40dB Gain	HP 83017A (0.5-26.5GHz)		3123A00181
Microwave Cables	MicroCoax (1.0-26.5GHz)		
Ailtech/Eaton Receiver	NM37/57A-SL		0792-03271
Spectrum Analyzer	HP 8594A		3051A00187
Spectrum Analyzer (2)	HP 8591A		3034A01395, 3108A02053
Modulation Analyzer	HP 8901A		2432A03467
NTSC Pattern Generator	Leader 408		0377433
Noise Figure Meter	HP 8970B		3106A02189
Noise Figure Meter	Ailtech 7510		TE31700
Noise Generator	Ailtech 7010		1473
Microwave Survey Meter	Holaday Model 1501 (2.450GHz)		80931
Digital Thermometer	Extech Instruments 421305		426966
Attenuator	HP 8495A (0-70dB) DC-4GHz		
Bi-Directional Coax Coupler	Narda 3020A (50-1000MHz)		
Shielded Screen Room	RF Lindgren Model 26-2/2-0		6710 (PCT270)
Shielded Semi-Anechoic Chamber	Ray Proof Model S81		R2437 (PCT278)
Environmental Chamber	Associated Systems Model 1025 (Temperature/Humidity)		PCT285

* Calibration traceable to the National Institute of Standards and Technology (NIST).

RECOMMENDATION / CONCLUSION

The data collected shows that the **LG Information & Communications, Ltd. 900MHz Analog Cordless Key Telephone Unit (Base/Handset) FCC ID: FFMCKTU9017-15** complies with Part 15.249 Subpart C of the FCC Rules.

No modifications were made to the device.