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EMI REPORT (Certification)

LG Electronics, Inc.

**60-39, Gasan-dong, Gumchon-gu,
Seoul, 153-023, Korea**

Date of Issue: July 22, 2008

Test Report No.: HCT-F08-0720

Test Site: HCT CO., LTD.

HCT FRN: 0005-8664-21

FCC ID:

BEJRD6200

Classification/ Standard(s): FCC PART 15 Subpart B / CISPR 22 CLASS B
Equipment (EUT) Type: Cellular CDMA Phone
Trade Name/Model(s): LG Electronics, Inc. / RD6200
Additional models: ID6200, SD6200, LD6200, ND6200, SN6200, CD6200,
XD6200, MC6200, UD6200, YD6200
Application Type: Certification
Port/ Connector(s): DC Input Port / Ear Phone Port

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003.(See Test Report if any modifications were made for compliance)

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.

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

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ATTACHMENT : TEST SETUP PHOTOGRAPHS

1. GENERAL INFORMATION

1.1 Product Description

The LG Electronics Inc. RD6200 Cellular CDMA Phone. It's basic purpose is used for communications. It transmits from CDMA 850 (824.70 MHz – 848.31 MHz) and receives from CDMA 850 (869.70 MHz – 893.31 MHz).

MODEL	RD6200
FCC ID	BEJRD6200
EUT Type	Cellular CDMA Phone
TX Frequency	824.70 MHz – 848.31 MHz (CDMA 850)
RX Frequency	869.70 MHz – 893.31 MHz (CDMA 850)

1.2 Related Submittal(s) / Grant(s)

ORIGINAL SUBMITTAL ONLY

1.3 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

DEVICE TYPE	MANUFACTURER	MODEL NUMBER /PART NUMBER	FCC ID / DoC	CONNECTED TO
Cellular CDMA Phone	LG Electronics, Inc.	RD6200	BEJRD6200	PC, TA
Adaptor	SUNLIN	STA-U33IR	-	EUT
Notebook PC	Toshiba	PSMA2K-01D002	DoC	EUT, TA
Notebook PC Adaptor	Delta	SADP-65KB B	-	Notebook PC
Mouse	Microsoft	Intellimouse optical USB and PS/2 compatible	DoC	Notebook PC
Ear phone	i-sound	-	-	EUT
USB Cable	KSD	-	-	EUT, PC

1.4 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (M)
Cellular CDMA Phone	DC In	N	N/A	(P)1.5
	Ear Jack	N/A	N	(D)1.1
	USB Data	Y	Y	(P, D)1.5
Notebook PC	USB (Mouse)	N/A	Y	(D)1.8

The marked "(D)" means the Data Cable and "(P)" means the Power Cable.

1.5 Noise Suppression Parts on Cable. (I/O CABLE)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
Cellular CDMA Phone	DC-In	N	N/A	Y	EUT End
	Ear-jack	N	N/A	Y	EUT End
	USB Data	N	N/A	Y	Both End
Notebook PC	USB (Mouse)	Y	Notebook PC End	Y	Notebook PC End

1.6 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4/2003. Radiated testing was performed at an antenna to EUT distance of 3 meters.

1.7 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, Maekok-Ri, Hobup-Myun, Ichon-Si, Kyonggi-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 6, 2006(Registration Number: 90661)

1.8 Frequency range of radiated measurements

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

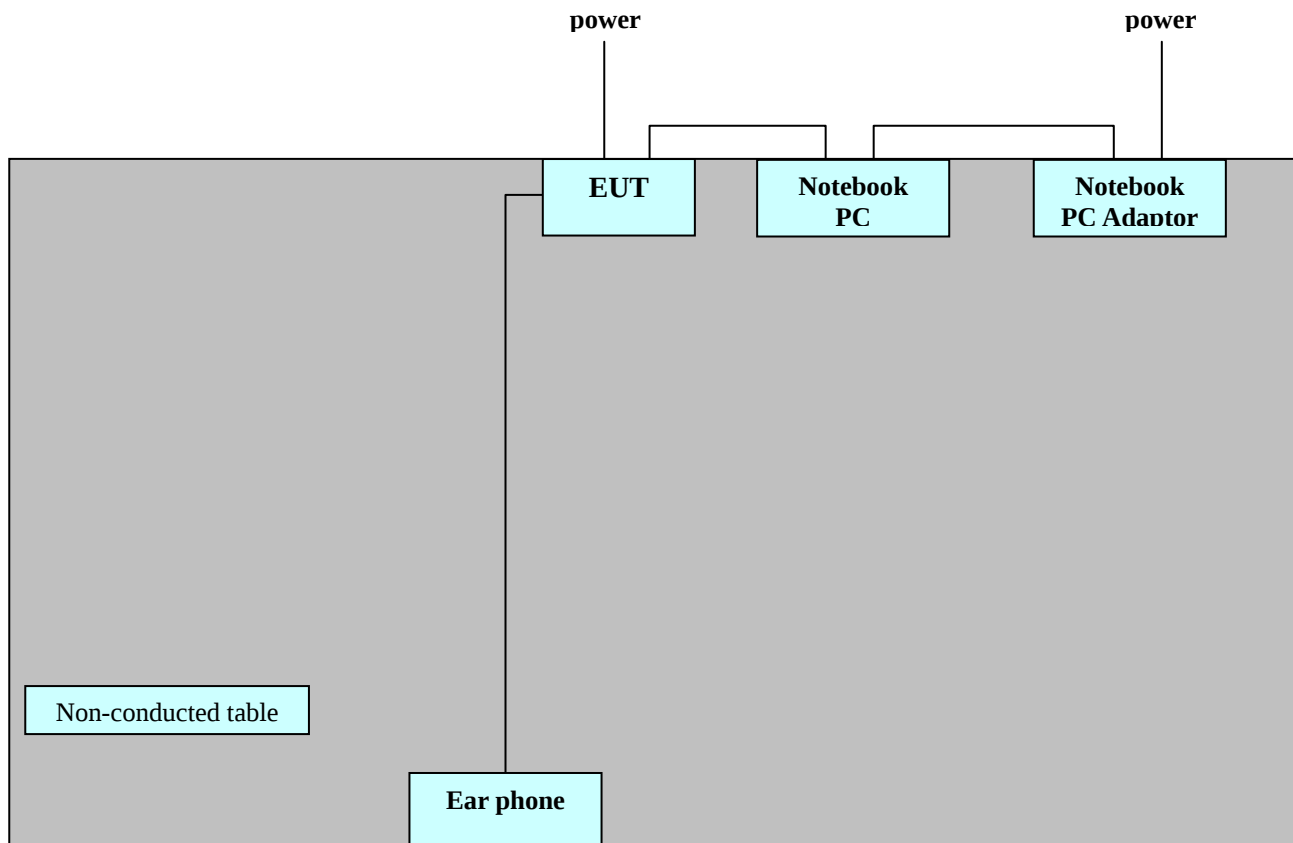
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

2.SYSTEM TEST CONFIGURATION

2.1 Configuration of Test system

Line Conducted Test : EUT was connected to LISN, all other supporting equipment were Connected to another LISN. Preliminary Power line Conducted Emission tests were performed by using the procedure in ANSI C63.4/2003 7.2.3 to determine the worst operating conditions.

Radiated Emission Test : Preliminary Radiated Emission tests were performed by using the procedure in ANSI C63.4/2003 8.3.1.1 to determine the worst operating condition. Final Radiated Emission tests were performed at 3 meter open area test site.



[Configuration of Tested System]

3. PRELIMINARY TEST

3.1 Conducted Emission Test

During Preliminary Tests, the following operating mode was investigated

Operation Mode	The worst operating condition
Idle Mode	
Camera Mode	
MP3 Mode	
Data Communication Mode	○

3. 2 Radiated Emission Test

During Preliminary Test, the Following operation mode was investigated

Operation Mode	The worst operating condition
Idle Mode	
Camera Mode	
MP3 Mode	
Data Communication Mode	○

4. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission Test

The following table shows the highest levels of conducted emissions on both polarization of hot and neutral line.

Limit apply to	: CISPR 22 CLASS B
Result	: PASSED BY 6.1 dB
Operating Condition	: Data Communication Mode
Detector	: Quasi-Peak, Average (6 dB Bandwidth: 9 kHz)
Temperature	: 29.5 °C
Humidity Level	: 53.2 %
Test Date	: July 18, 2008

Power Line Conducted Emissions				CISPR 22 Class B	
Frequency (MHz)	Amplitude (dBuV)	Conductor	Result	Limit (dBuV)	Margin (dB)
0.2001	56.8	HOT	Quasi-Peak	64.0	6.8
0.2001	47.6	HOT	Average	54.0	6.1
0.2001	39.1	NEUTRAL	Quasi-Peak	64.0	24.5
0.2001	31.2	NEUTRAL	Average	54.0	22.4

Line Conducted Emissions Tabulated Data

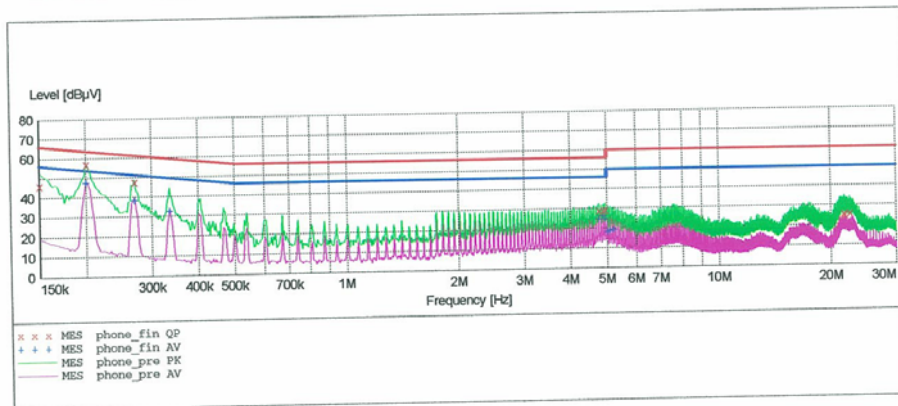
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EMC TEST LAB.

EUT: RD6200
Manufacturer: LG
Operating Condition: Data communication Mode
Test Site: SHIELD ROOM
Operator: YH, LEE
Test Specification: CISPR 22 CLASS B
Comment: H

SCAN TABLE: "CISPR 22 Voltage"

Short Description:			CISPR 22 Voltage			
Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None



MEASUREMENT RESULT: "phone_fin QP"

7/18/2008 12:10PM						
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.150100	46.20	10.0	66	19.8	---	---
0.200100	56.80	10.0	64	6.8	---	---
0.270100	47.50	10.0	61	13.6	---	---
4.760000	28.80	10.6	56	27.2	---	---
4.896000	29.00	10.6	56	27.0	---	---
4.960000	29.10	10.6	56	26.9	---	---
21.740000	25.60	12.4	60	34.4	---	---
21.872000	24.90	12.4	60	35.1	---	---
22.544000	25.90	12.5	60	34.1	---	---

MEASUREMENT RESULT: "phone_fin AV"

7/18/2008 12:10PM						
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.200100	47.60	10.0	54	6.1	---	---
0.270100	38.30	10.0	51	12.8	---	---

MEASUREMENT RESULT: "phone_fin AV"

(continued) Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.335100	32.70	10.0	49	16.6	---	---
4.760000	24.70	10.6	46	21.3	---	---
4.896000	26.20	10.6	46	19.8	---	---
4.960000	24.80	10.6	46	21.2	---	---
5.028000	18.10	10.6	50	31.9	---	---
5.096000	18.80	10.6	50	31.2	---	---
5.232000	19.50	10.7	50	30.5	---	---

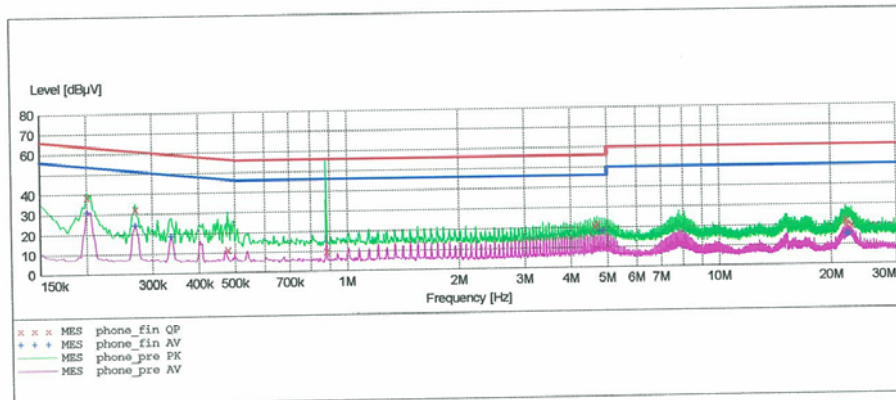
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EMC TEST LAB.

EUT: RD6200
Manufacturer: LG
Operating Condition: Data communication Mode
Test Site: SHIELD ROOM
Operator: YH, LEE
Test Specification: CISPR 22 CLASS B
Comment: N

SCAN TABLE: "CISPR 22 Voltage"

Short Description:		CISPR 22 Voltage				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None



MEASUREMENT RESULT: "phone_fin QP"

7/18/2008 12:14PM						
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.200100	39.10	10.0	64	24.5	---	---
0.270100	32.70	10.0	61	28.4	---	---
0.477600	11.60	10.1	56	44.8	---	---
0.880000	10.20	10.1	56	45.8	---	---
4.640000	20.90	10.6	56	35.1	---	---
4.708000	22.00	10.6	56	34.0	---	---
21.948000	22.70	12.4	60	37.3	---	---
22.076000	20.80	12.4	60	39.2	---	---
22.748000	19.90	12.5	60	40.1	---	---

MEASUREMENT RESULT: "phone_fin AV"

7/18/2008 12:14PM						
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.200100	31.20	10.0	54	22.4	---	---
0.270100	24.70	10.0	51	26.4	---	---

MEASUREMENT RESULT: "phone_fin AV"

(continued)

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.337600	19.00	10.0	49	30.3	---	---
4.780000	18.60	10.6	46	27.4	---	---
4.844000	18.60	10.6	46	27.4	---	---
4.912000	18.70	10.6	46	27.3	---	---
22.076000	15.40	12.4	50	34.6	---	---
22.208000	15.20	12.4	50	34.8	---	---
22.412000	15.50	12.4	50	34.5	---	---

4.2 Radiated Emission Test

The following table shows the highest levels of Radiated Emissions on both polarization of horizontal and vertical.

Limit apply to	: FCC PART 15 Subpart B
Result	: PASSED BY 9.2 dB
Operating Condition	: Data Communication Mode
Detector	: Quasi-Peak (6 dB Bandwidth: 120 kHz)
Temperature	: 29.5 °C
Humidity Level	: 53.2 %
Test Date	: July 18, 2008

Frequency	Reading	Ant. Factor	Cable Loss	ANT POL	Total	Limit	Margin
MHz	dBuV/m	dB/m	dB	(H/V)	dBuV/m	dBuV/m	dB
468.1	11.7	16.7	5.1	V	33.5	46.0	12.5
480.0	12.8	16.9	5.2	V	34.9	46.0	11.1
480.0	10.5	16.9	5.2	H	32.6	46.0	13.4
492.1	14.5	17.0	5.3	V	36.8	46.0	9.2

*** For measurement over 1 GHz, noise level was more than 10 dB below the limit.

5. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor.

The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF$$

where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

Assume a receiver reading of 21.5 dBuV/m is obtained. The Antenna Factor of 7.4 dB and a Cable Factor of 1.1 dB is added. The 30 dBuV/m value is mathematically converted to its corresponding level in uV/m.

$$FS = 21.5 + 7.4 + 1.1 = 30 \text{ dBuV/m}$$

Radiated emission limits

Frequency of emission	Field strength	
	V / m	dB V / m
30 ~ 88	100	40.0
88 ~ 216	150	43.5
216 ~ 960	200	46.0
Above 960	500	54.0

6. Test Equipment

<u>Type</u>	<u>Manufacture</u>	<u>Model Number</u>	<u>Next CAL Date</u>
EMI Test Receiver	Rohde & Schwarz	ESI40	2008.11.06
EMI Test Receiver	Rohde & Schwarz	ESCI	2009.06.01
LISN	EMCO	703125	2009.05.04
LISN	Rohde & Schwarz	ESH2-Z5	2009.04.18
LISN	Rohde & Schwarz	ESH3-Z5	2009.06.13
LISN	EMCO	3816/2SH	2009.02.01
Attenuator	Rohde & Schwarz	ESH3-Z2	2009.10.30
TRILOG Antenna	Schwarzbeck	VULB9168	2009.01.18
Communication Antenna	TDK	LPDA-0802	N/A
Antenna Position Tower	HD	240/520/00	N/A
Base Station	Rohde & Schwarz	CMU 200	2009.02.28
Horn Antenna	Schwarzbeck	BBHA 9120D	2009.03.18
RF-Amplifier	MITEQ	AMF-6D-00101800-35.20P.PS	2009.04.25
Bluetooth Base Station	TESCOM	TC-3000A	2009.01.11

7. Conclusion

The data collected shows that the **LG Electronics Inc. Cellular CDMA Phone**
FCC ID: BEJRD6200 Complies with §15.107 and §15.109 of the FCC Rules.