

# FCC TEST REPORT

Reference No. : G-45-2011-00708

Applicant : LG Electronics Inc.

Equipment Under Test (EUT) :

Product Name : Cellular/PCS GSM/GPRS Phone  
with WLAN/Bluetooth

Model Name : LG-C375

Alt. Model Name : LGC375, C375, LG-C365, LGC365, C365

Applied Standards : FCC Part 15 : 2009, Subpart B, Class B

ANSI C63.4 : 2003

CISPR 22 : 2006

Date of Receipt : March 16, 2011

Date of Test : March 25, 2011

Date of Issue : April 04, 2011

Test Results : Complied

Tested by :



Paul Kang

Reviewed by :



Forest Lee

## Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or Testing done by SGS International Electrical Approvals in connection with distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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## 1. General Information

### 1.1 Client Information

Applicant : LG Electronics Inc.  
Address of Applicant : 60-39, Gasan-dong, Gumchon-gu, Seoul, 153-023, Korea  
Manufacturer : LG Electronics Inc.  
Address of Manufacturer : 60-39, Gasan-dong, Gumchon-gu, Seoul, 153-023, Korea

### 1.2 Test Laboratory

Name and Address : SGS Korea Co., Ltd.  
18-34, Sanbon-dong, Gunpo, Gyeonggi-do, Korea  
435-041

### 1.3 General Information of E.U.T.

Product Name : Cellular/PCS GSM/GPRS Phone with WLAN/Bluetooth  
Model Name : LG-C375  
Alt. Model Name : LGC375, C375, LG-C365, LGC365, C365  
Model Difference : Only model name is different.  
FCC ID : BEJC375  
Serial No. : 101KPVH933007  
Highest Internal Frequency : Max. 312 MHz  
Test Voltage : 120 V a.c., 60 Hz (Notebook Computer)  
Battery 3.7 V d.c., 950 mAh, 3.6 Wh Inside

### 1.4 Operating Modes and Conditions

| Operating mode | Operating condition    |
|----------------|------------------------|
| USB Mode       | USB Data Communication |

Note: EUT was exercised through Software(Dell Program) during testing.

### 1.5 Peripheral Equipments

| Description        | Model                                       | Serial No.               | Manufacturer             |
|--------------------|---------------------------------------------|--------------------------|--------------------------|
| USB Keyboard       | RT7D50                                      | CN-0W7658-37172-65I-0K5G | DELL                     |
| USB MOUSE          | Basic Optical Mouse 1.0A USB/PS2 Compatible | -                        | MICROSOFT CORPORATION    |
| Micro SD Card      | Mobile Ultra 2GB                            | -                        | SanDisk                  |
| Local Area Network | -                                           | -                        | -                        |
| LCD Monitor        | W2261VP-PF                                  | 003NDFVKY899             | LG Electronics Co., Ltd. |
| Notebook Computer  | LGE-DMLGX14(B)                              | 008QTEQ024836            | LG Electronics Co., Ltd. |

Note: Peripherals are DoC.

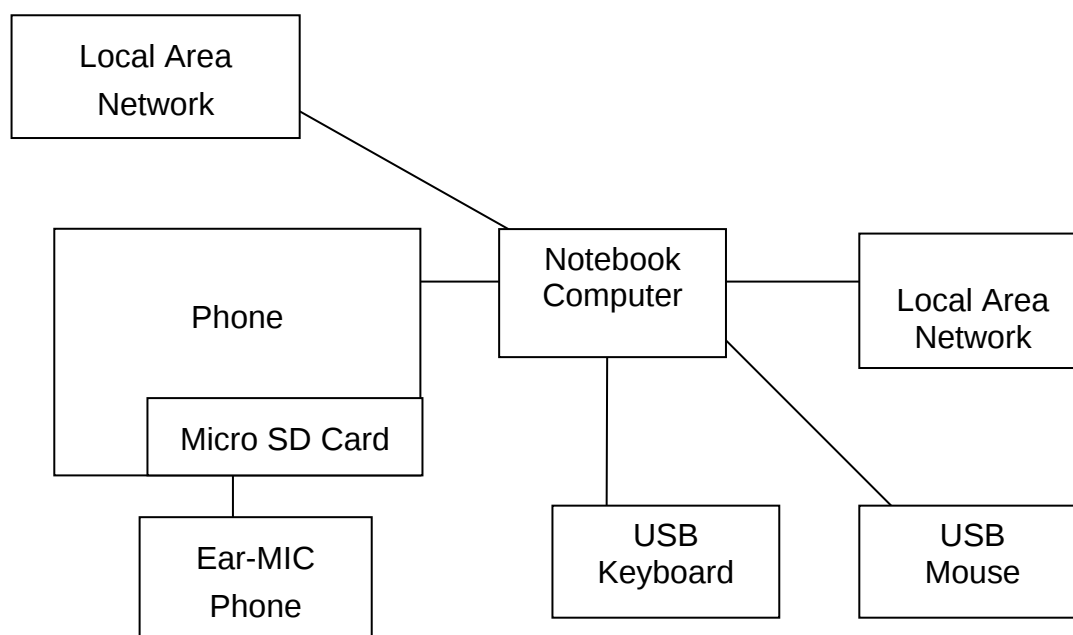
### 1.6 Cable List

| Start             |          | END                |          | Cable Spec. |          |
|-------------------|----------|--------------------|----------|-------------|----------|
| Name              | I/O Port | Name               | I/O Port | Length      | Shield   |
| Phone             | USB      | Notebook Computer  | USB      | 1.2         | Shield   |
|                   | IO       | Ear-MIC Phone      | -        | 1.1         | Unshield |
|                   | MicroSD  | Micro SD Card      | -        | -           | -        |
| Notebook Computer | AC IN    | Power Source       | -        | 1.8         | Unshield |
|                   | RGB      | LCD Monitor        | RGB      | 1.8         | Shield   |
|                   | USB      | USB Keyboard       | USB      | 2.0         | Shield   |
|                   | USB      | USB Mouse          | USB      | 1.8         | Shield   |
|                   | LAN      | Local Area Network | -        | 6.0         | Unshield |

### 1.7 System Configurations

| Description   | Model     | Serial No.             | Manufacturer |
|---------------|-----------|------------------------|--------------|
| Battery       | LGIP-531A | DC110223               | LG           |
| Ear-MIC Phone | A184      | CRESYN/SGEY000<br>3219 | LG           |

### 1.8 Test System Layout



### 1.9 Modifications

There was no modified item during the test.

### 1.10 Applicable Standards for Testing

| Standards                                                             | Status     | Deviation    |
|-----------------------------------------------------------------------|------------|--------------|
| FCC Part 15 : 2009, Subpart B<br>ANSI C63.4 : 2003<br>CISPR 22 : 2006 | Applicable | No Deviation |

### 1.11 Summary of Test Results

| Test Item          | Standards                                                             | Results  |
|--------------------|-----------------------------------------------------------------------|----------|
| Conducted Emission | FCC Part 15 : 2009, Subpart B<br>ANSI C63.4 : 2003<br>CISPR 22 : 2006 | Complied |
| Radiated Emission  | FCC Part 15 : 2009, Subpart B<br>ANSI C63.4 : 2003<br>CISPR 22 : 2006 | Complied |

# EMISSION

## 2.1 Test Results

| Test Items         | Standards                                                             | Test Results    |
|--------------------|-----------------------------------------------------------------------|-----------------|
| Conducted Emission | FCC Part 15 : 2009, Subpart B<br>ANSI C63.4 : 2003<br>CISPR 22 : 2006 | <b>Complied</b> |
| Radiated Emission  | FCC Part 15 : 2009, Subpart B<br>ANSI C63.4 : 2003<br>CISPR 22 : 2006 | <b>Complied</b> |

## 2.2 Test Equipments

| Equipment                 | Model    | Manufacturer                | Last Cal. Date |
|---------------------------|----------|-----------------------------|----------------|
| Two-Line V-Network        | ENV216   | R & S                       | 2011.01.06     |
| Artificial Mains Networks | ESH2-Z5  | R & S                       | 2010.06.25     |
| Test Receiver             | ESHS10   | R & S                       | 2010.07.12     |
| Horn Antenna              | HF906    | R & S                       | 2009.10.08     |
| Bilog Antenna             | VULB9163 | SCHWARZBECK MESS-ELEKTRONIK | 2009.05.07     |
| Test Receiver             | ESU26    | R & S                       | 2010.04.08     |
| Amplifier                 | 8447F    | HP                          | 2010.07.05     |
| Preamplifier              | 8449B    | Agilent                     | 2010.03.31     |

Note : Only the calibration period of Antennas is 2 years but the period of every equipment is 1 year.

## 2.3 Test Site

Conducted Emission: Shield Room in Gunpo Laboratory

Radiated Emission: 3m Semi-Anechoic Chamber in Gunpo Laboratory

## 2.4 Conducted Emission Test Data

The initial preliminary exploratory scans were performed using a max hold mode incorporating a Peak detector. The final test data was measured using a Quasi-Peak detector and Average detector.

Temperature : 21.5

Humidity : 20.0 % RH

Atmospheric Pressure : 101.4 kPa

| FREQ.<br>(MHz) | LINE | LEVEL(dB $\mu$ W) |         | LIMIT(dB $\mu$ W) |         | MARGIN(dB) |         |
|----------------|------|-------------------|---------|-------------------|---------|------------|---------|
|                |      | Q-Peak            | Average | Q-Peak            | Average | Q-Peak     | Average |
| 0.16           | H    | 49.60             | 28.40   | 65.73             | 55.73   | 16.13      | 27.33   |
| 0.17           | N    | 49.70             | 34.40   | 65.21             | 55.21   | 15.51      | 20.81   |
| 0.19           | H    | 47.50             | 34.30   | 64.04             | 54.04   | 16.54      | 19.74   |
| 0.22           | N    | 43.10             | 29.00   | 63.01             | 53.01   | 19.91      | 24.01   |
| 0.27           | H    | 38.40             | 22.30   | 61.12             | 51.12   | 22.72      | 28.82   |
| 0.28           | N    | 38.50             | 26.80   | 60.97             | 50.97   | 22.47      | 24.17   |

Measurement Uncertainty :  $\pm 3.37$ dB (The confidential level is about 95%, K=2)

Note : • Line ( H ) : Hot

• Line ( N ) : Neutral

• Margin = Limit - Level

**See Appendix A (Conducted Emission)**

## 2.5 Radiated Emission Test Data

The initial preliminary exploratory scans were performed using a max hold mode incorporating a Peak detector. The final test data was measured using a Quasi-Peak detector below 1GHz and a Peak and Average detector above 1GHz. This test was performed up to 2GHz.

### Below 1GHz (3m method)

Temperature : 21.1

Humidity : 22.0 % RH

Atmospheric Pressure : 101.4 kPa

| FREQ.<br>(MHz) | LEVEL<br>(dBμV) | POL<br>(H/V) | A<br>(°) | H<br>(m) | AF<br>(dB) | CL<br>(dB) | Amp<br>(dB) | F/S<br>(dBμV/m) | LIMIT<br>(dBμV/m) | MARGIN<br>(dB) |
|----------------|-----------------|--------------|----------|----------|------------|------------|-------------|-----------------|-------------------|----------------|
| 93.94          | 41.70           | V            | 310.0    | 1.00     | 11.38      | 0.97       | 28.11       | 25.94           | 43.50             | 17.56          |
| 139.97         | 45.10           | V            | 200.0    | 1.00     | 7.28       | 1.17       | 27.91       | 25.64           | 43.50             | 17.86          |
| 200.88         | 53.30           | H            | 75.0     | 1.10     | 10.33      | 1.39       | 27.63       | 37.39           | 43.50             | 6.11           |
| 311.62         | 47.90           | H            | 80.0     | 1.50     | 13.54      | 1.75       | 27.44       | 35.75           | 46.00             | 10.25          |
| 336.00         | 44.10           | H            | 180.0    | 1.20     | 14.37      | 1.80       | 27.59       | 32.68           | 46.00             | 13.32          |
| 367.08         | 43.20           | H            | 30.0     | 1.40     | 14.98      | 1.87       | 27.81       | 32.24           | 46.00             | 13.76          |

Measurement Uncertainty (Horizontal) :  $\pm 5.00\text{dB}$  (The confidential level is about 95%, K=2)

Measurement Uncertainty (Vertical) :  $\pm 5.36\text{dB}$  (The confidential level is about 95%, K=2)

Note : • AF = Antenna Factor • CL = Cable Loss • F/S = Field Strength  
• POL H = Horizontal • POL V = Vertical • Amp = Amplifier Gain  
• Margin = Limit – F/S • F/S = Level + AF + CL – Amp  
• A : Angle • H : Height

### Above 1GHz (3m method)

Temperature : 21.1

Humidity : 20.0 % RH

Atmospheric Pressure : 101.4 kPa

| FREQ.<br>(MHz)   | LEVEL<br>(dBμV) | POL<br>(H/V) | A<br>(°) | H<br>(m) | AF<br>(dB) | CL<br>(dB) | Amp<br>(dB) | F/S<br>(dBμV/m) | LIMIT<br>(dBμV/m) | MARGIN<br>(dB) |
|------------------|-----------------|--------------|----------|----------|------------|------------|-------------|-----------------|-------------------|----------------|
| Peak Detector    |                 |              |          |          |            |            |             |                 |                   |                |
| 1050.00          | 52.00           | V            | 235.0    | 1.00     | 24.68      | 3.10       | 33.07       | 46.71           | 74.00             | 27.29          |
| 1329.58          | 55.40           | V            | 50.0     | 1.00     | 25.01      | 3.62       | 35.39       | 48.64           | 74.00             | 25.36          |
| Average Detector |                 |              |          |          |            |            |             |                 |                   |                |
| 1050.00          | 35.00           | V            | 235.0    | 1.00     | 24.68      | 3.10       | 33.07       | 29.71           | 54.00             | 24.29          |
| 1329.58          | 37.10           | V            | 50.0     | 1.00     | 25.01      | 3.62       | 35.39       | 30.34           | 54.00             | 23.66          |

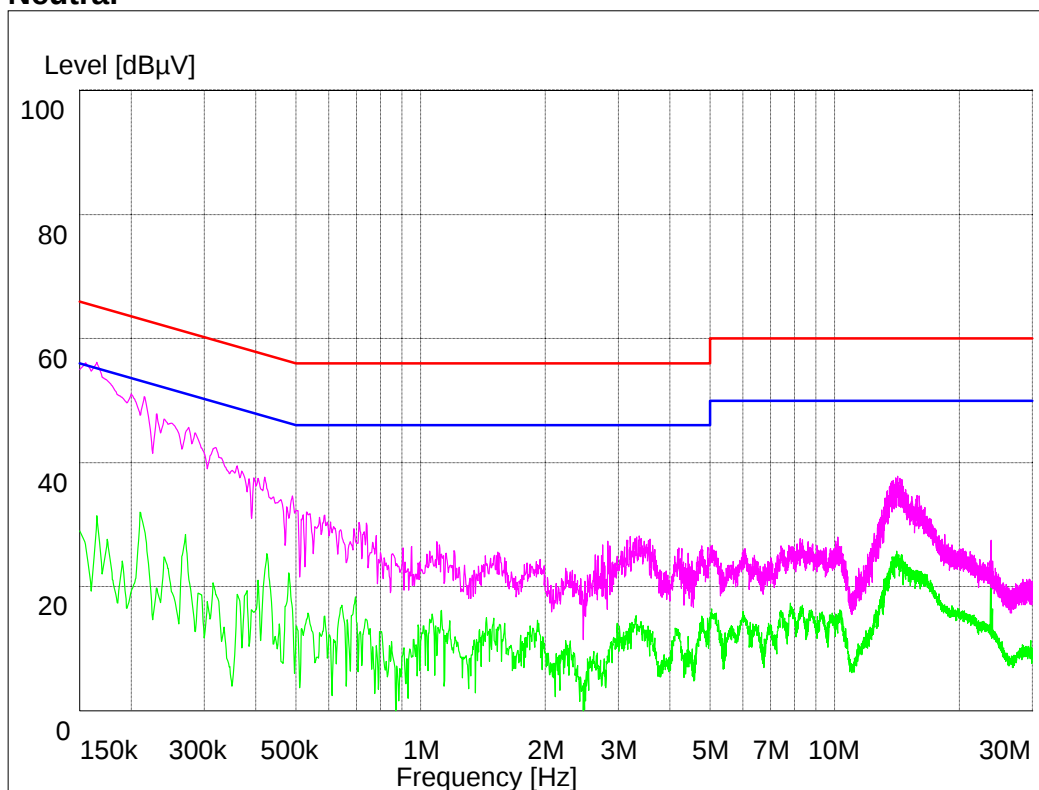
Measurement Uncertainty (Horizontal) :  $\pm 4.89\text{dB}$  (The confidential level is about 95%, K=2)

Measurement Uncertainty (Vertical) :  $\pm 4.93\text{dB}$  (The confidential level is about 95%, K=2)

Note : • AF = Antenna Factor • CL = Cable Loss • F/S = Field Strength  
• POL H = Horizontal • POL V = Vertical • Amp = Amplifier Gain  
• Margin = Limit – F/S • F/S = Level + AF + CL – Amp  
• A : Angle • H : Height

## Appendix A : Conducted Emission

### Neutral



### Hot

