



**HCT CO., LTD.**

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## EMI CERTIFICATION REPORT

**Applicant:**

LG Electronics MobileComm U.S.A., Inc.  
1000 Sylvan Avenue, Englewood Cliffs NJ 07632

**Date of Issue:** April 03, 2013

**Test Report No.:** HCTE1304FE08

**Test Site:** HCT CO., LTD.

**HCT FRN:** 0005-8664-21

**FCC ID:**

**ZNFE440G**

Rule Part(s) / Standard(s) : FCC PART 15 Subpart B Class B  
Equipment Type : GSM/WCDMA Phone with Bluetooth3.0, WIFI802.11 b/g/n  
Model Name : LG-E440g  
Additional Model(s) : LGE440g, E440g  
Port / Connector(s) : USB Port / Headset 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 subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

Report prepared by  
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## DOCUMENT HISTORY

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The revision history for this document is shown in table.

| Version      | Date           | Description     |
|--------------|----------------|-----------------|
| HCTE1304FE08 | April 03, 2013 | Initial Release |

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**ATTACHMENT: TEST SETUP PHOTOGRAPHS**

## 1. GENERAL INFORMATION

### 1.1 Product Description

Equipment Under Test is **EUT type: GSM/WCDMA Phone with Bluetooth3.0, WIFI802.11 b/g/n, Model: LG-E440g** manufactured by **LG Electronics MobileComm U.S.A., Inc.** Its basic purpose is used for communications.

|                            |  |
|----------------------------|--|
| <b>Model</b>               | LG-E440g   |
| <b>FCC ID</b>              | ZNFE440G   |
| <b>Additional Model(s)</b> | LGE440g, E440g   |
| <b>EUT Type</b>            | GSM/WCDMA Phone with Bluetooth3.0, WIFI802.11 b/g/n  |
| <b>TX Frequency</b>        | 824.20 MHz to 848.80 MHz (GSM 850)<br>1 850.20 MHz to 1 909.80 MHz (GSM 1 900)<br>826.40 MHz to 846.60 MHz (WCDMA 850)<br>1 852.4 MHz to 1 907.6 MHz (WCDMA 1 900) |
| <b>RX Frequency</b>        | 869.20 MHz to 893.80 MHz (GSM 850)<br>1 930.20 MHz to 1 989.80 MHz (GSM 1 900)<br>871.40 MHz to 891.60 MHz (WCDMA 850)<br>1 932.4 MHz to 1 987.6 MHz (WCDMA 1 900) |

### 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 Name            | FCC ID / DoC | Connected To                 |
|---------------------|--------------------------|-----------------------|--------------|------------------------------|
| EUT                 | LG                       | LG-E440g              | ZNFE440G     | Notebook PC Headset          |
| USB cable           | Interfacesamil Co.       | EAD62377901           | -            | E.U.T Notebook PC            |
| Headset             | I-SOUND                  | EAB62808711           | -            | E.U.T                        |
| Notebook PC         | H.P                      | ProBook 6560b         | DoC          | EUT Notebook PC adaptor      |
| Notebook PC adaptor | CHICONY POWER TECHNOLOGY | Series PPP012H-S      | -            | Notebook PC                  |
| Mouse               | Radio shack              | Series 2-button mouse | FSUGMZE3     | Notebook PC                  |
| Net hard            | LG                       | N1A1DD1               | DoC          | Notebook PC Net hard adaptor |
| Net hard adaptor    | Yang Ming Industrial     | DA-60M12              | -            | Net hard                     |
| RJ45 cable          | -                        | -                     | -            | Net hard Notebook PC         |
| Micro SD card       | SanDisk                  | 8 GB                  | -            | E.U.T                        |

### 1.4 Cable Description

| Product Name | Port           | Power Cord Shielded (Y/N) | I/O Cable Shielded (Y/N) | Length (m) |
|--------------|----------------|---------------------------|--------------------------|------------|
| EUT          | Micro USB      | Y                         | Y                        | (P,D)1.1   |
|              | Headset jack   | -                         | N                        | (D)1.2     |
| Notebook PC  | RJ 45          | -                         | N                        | (D)1.5     |
|              | Serial (Mouse) | -                         | Y                        | (D)1.8     |
| Net hard     | DC in          | N                         | -                        | (P)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        |
|--------------|----------------|--------------------|----------|------------------|-----------------|
| EUT          | Micro USB      | N                  | N/A      | Y                | Both End        |
|              | Headset jack   | N                  | N/A      | Y                | EUT End         |
| Notebook PC  | RJ 45          | N                  | N/A      | N                | N/A             |
|              | Serial (Mouse) | N                  | N/A      | Y                | Notebook PC End |

## 1.6 Test Methodology

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

## 1.7 Test Facility

Chamber used to collect the test data is located at the 74, SEOICHEON-RO, 578BEON-GIL, MAJANG-MYEON, ICHEON-SI, GYEONGGI-DO, KOREA. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4.

| Measurement Facilities                             | Reg. No.              |
|--|-----------------------|
| Radiated Field strength measurement facility (3m)  | 90661(Mar. 02, 2011)  |
| Radiated Field strength measurement facility (10m) | 90661 (Sep. 03, 2010) |

## 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 to 108   | 1 000   |
| 108 to 500   | 2 000   |
| 500 to 1 000   | 5 000   |
| Above 1 000  | 5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower |

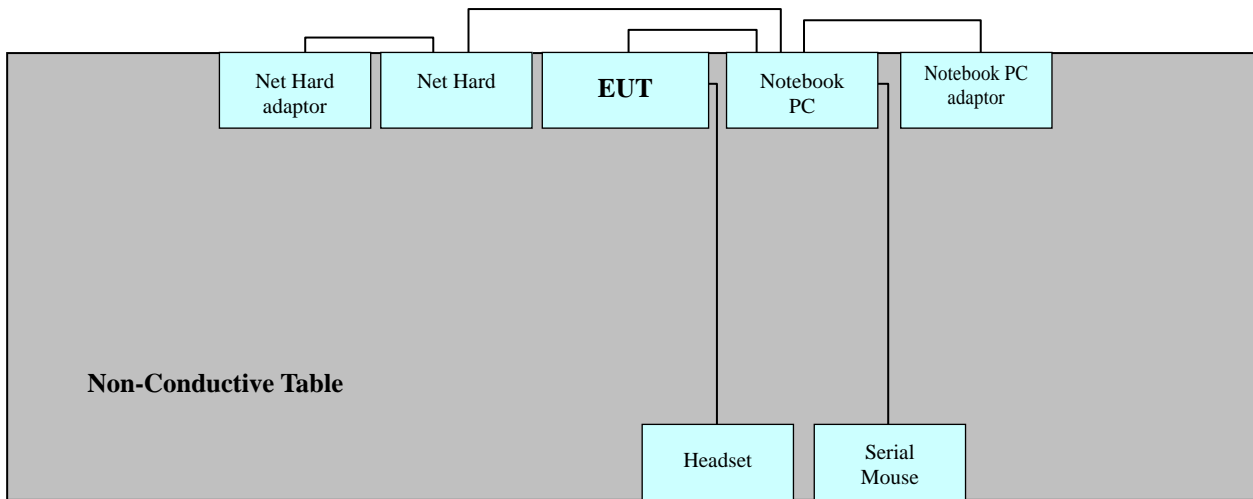
## 2. SYSTEM TEST CONFIGURATION

### 2.1 Configuration of Test System

Power Line Conducted test : EUT was connected to LISN via Notebook PC adaptor and Base Station. 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 m semi-anechoic chamber.

[Configuration of Tested System]



Power Line: 120 VAC



### **3. PRELIMINARY TEST**

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#### **3.1 Conducted Emission Test**

- It was tested Data Communication mode, after connecting all peripheral devices.

**Operation Mode:**       Data mode

#### **3. 2 Radiated Emission Test**

- It was tested Data Communication mode, after connecting all peripheral devices.

**Operation Mode:**       Data 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 | : FCC PART 15 Subpart B Class B               |
| Detector       | : Quasi-Peak, Average (6 dB Bandwidth: 9 kHz) |
| Operation Mode | : Data mode                                   |
| Temperature    | : 21.4 °C                                     |
| Humidity Level | : 33.7 %                                      |
| Test Date      | : April 03, 2013                              |

| Frequency<br>(MHz) | Transd<br>(dB) | Conductor | Quasi-Peak |                   |              | Average |                   |              |
|--------------------|----------------|-----------|------------|-------------------|--------------|---------|-------------------|--------------|
|                    |                |           | Limit      | Measurement Level | Result Level | Limit   | Measurement Level | Result Level |
|                    |                |           | (dBuV)     | (dBuV)            | (dBuV)       | (dBuV)  | (dBuV)            | (dBuV)       |
| 0.494              | 10.0           | N         | 56         | 23.7              | 33.7         | 46      | -                 | -            |
| 0.616              | 10.0           | N         | 56         | 23.8              | 33.8         | 46      | -                 | -            |
| 1.684              | 10.1           | N         | 56         | -                 | -            | 46      | 15.20             | 25.30        |
| 2.028              | 9.9            | H         | 56         | -                 | -            | 46      | 12.90             | 22.80        |
| 16.424             | 11.2           | H         | 60         | -                 | -            | 50      | 14.80             | 26.00        |
| 23.128             | 11.9           | H         | 60         | -                 | -            | 50      | 15.40             | 27.30        |

※ **NOTE:** Refer to page 11 to page 14 for details.

1. Line H = Hot, Line N = Neutral
2. Transd = LISN factor + Cable Loss factor
3. The worst-case emissions are reported.

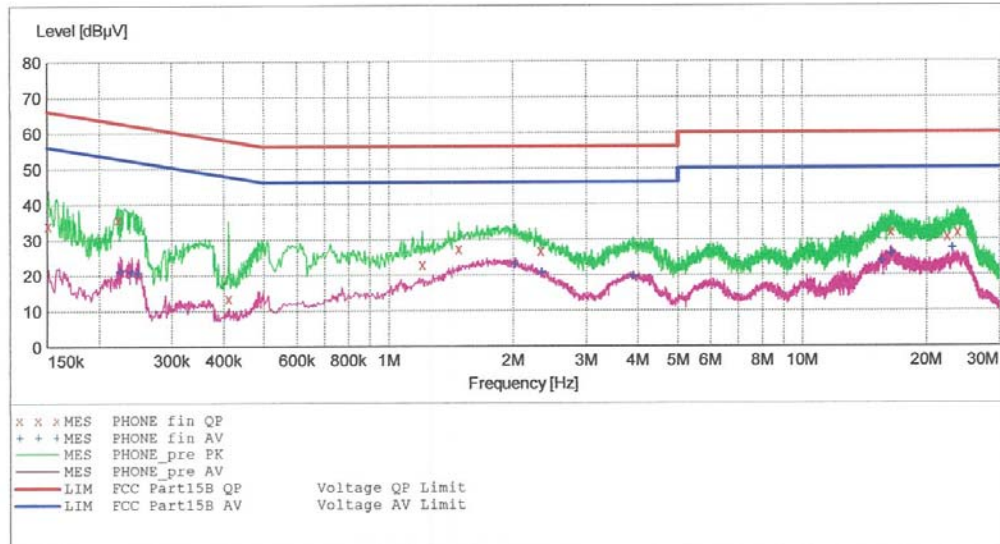
**HCT**

**EMC**

EUT: LG-E440g  
 Manufacturer: LG  
 Operating Condition: DATA MODE  
 Test Site: SHIELD ROOM  
 Operator: GC YOON  
 Test Specification: FCC PART 15 B  
 Comment: H

**SCAN TABLE: "FCC PART 15 B(H)"**

| Short Description: |                |            | FCC PART 15 CLASS B |            |           |            |
|--------------------|----------------|------------|---------------------|------------|-----------|------------|
| Start Frequency    | Stop Frequency | Step Width | Detector            | Meas. Time | IF Bandw. | Transducer |
| 150.0 kHz          | 500.0 kHz      | 1.0 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       |
|                    |                |            | Average             |            |           |            |



**MEASUREMENT RESULT: "PHONE\_fin QP"**

4/3/2013 9:05AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Line | PE  |
|---------------|------------|-----------|------------|-----------|------|-----|
| 0.151010      | 34.00      | 9.8       | 66         | 32.0      | ---  | --- |
| 0.223010      | 35.80      | 9.7       | 63         | 26.9      | ---  | --- |
| 0.411010      | 13.60      | 9.8       | 58         | 44.0      | ---  | --- |
| 1.208000      | 23.00      | 9.8       | 56         | 33.0      | ---  | --- |
| 1.480000      | 27.40      | 9.9       | 56         | 28.6      | ---  | --- |
| 2.332000      | 26.80      | 10.0      | 56         | 29.2      | ---  | --- |
| 16.376000     | 32.00      | 11.2      | 60         | 28.0      | ---  | --- |
| 22.392000     | 30.70      | 11.9      | 60         | 29.3      | ---  | --- |
| 23.752000     | 31.90      | 11.9      | 60         | 28.1      | ---  | --- |

**MEASUREMENT RESULT: "PHONE\_fin AV"**

4/3/2013 9:05AM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|------|-----|
| 0.225010         | 21.20         | 9.7          | 53            | 31.4         | ---  | --- |
| 0.240010         | 20.90         | 9.8          | 52            | 31.2         | ---  | --- |
| 0.249010         | 20.70         | 9.8          | 52            | 31.1         | ---  | --- |
| 2.028000         | 22.80         | 9.9          | 46            | 23.2         | ---  | --- |
| 2.344000         | 20.90         | 10.0         | 46            | 25.1         | ---  | --- |
| 3.908000         | 19.50         | 10.1         | 46            | 26.5         | ---  | --- |
| 15.616000        | 23.80         | 11.1         | 50            | 26.2         | ---  | --- |
| 16.424000        | 26.00         | 11.2         | 50            | 24.0         | ---  | --- |
| 23.128000        | 27.30         | 11.9         | 50            | 22.7         | ---  | --- |

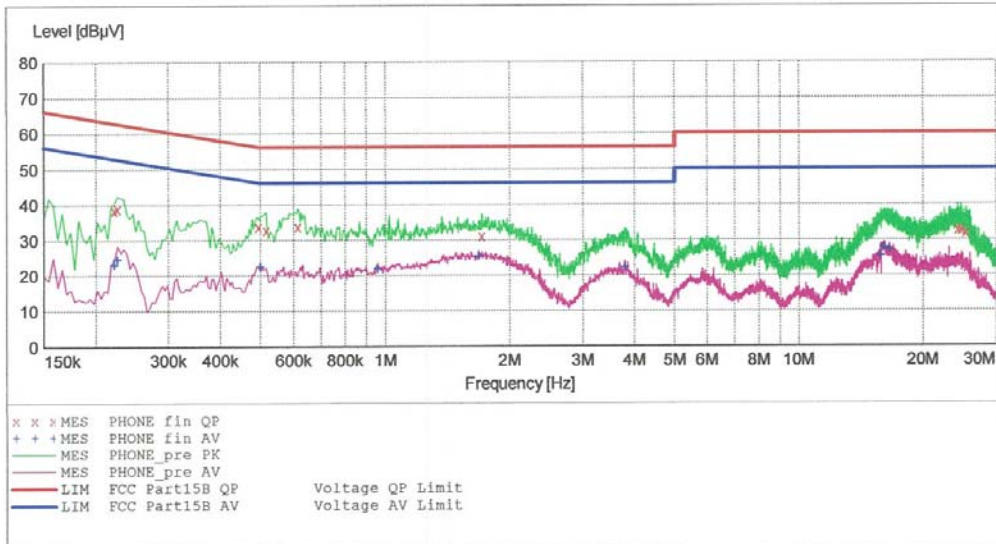
**HCT**

**EMC**

EUT: LG-E440g  
 Manufacturer: LG  
 Operating Condition: DATA MODE  
 Test Site: SHIELD ROOM  
 Operator: GC YOON  
 Test Specification: FCC PART 15 CLASS B  
 Comment: N

**SCAN TABLE: "FCC PART 15 B(N)"**

| Short Description: |                |            | FCC PART 15 CLASS B |            |           |            |
|--------------------|----------------|------------|---------------------|------------|-----------|------------|
| Start Frequency    | Stop Frequency | Step Width | Detector            | Meas. Time | IF Bandw. | Transducer |
| 150.0 kHz          | 500.0 kHz      | 4.0 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       |
|                    |                |            | Average             |            |           |            |



**MEASUREMENT RESULT: "PHONE\_fin QP"**

4/3/2013 9:01AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Line | PE  |
|---------------|------------|-----------|------------|-----------|------|-----|
| 0.222010      | 38.50      | 9.9       | 63         | 24.2      | ---  | --- |
| 0.226010      | 38.80      | 10.0      | 63         | 23.8      | ---  | --- |
| 0.494010      | 33.70      | 10.0      | 56         | 22.4      | ---  | --- |
| 0.516000      | 32.70      | 10.0      | 56         | 23.3      | ---  | --- |
| 0.616000      | 33.80      | 10.0      | 56         | 22.2      | ---  | --- |
| 1.716000      | 31.00      | 10.1      | 56         | 25.0      | ---  | --- |
| 24.300000     | 32.70      | 12.3      | 60         | 27.3      | ---  | --- |
| 24.700000     | 32.80      | 12.4      | 60         | 27.2      | ---  | --- |
| 25.376000     | 31.80      | 12.4      | 60         | 28.2      | ---  | --- |

**MEASUREMENT RESULT: "PHONE\_fin AV"**

4/3/2013 9:01AM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|------|-----|
| 0.222010         | 23.10         | 9.9          | 53            | 29.6         | ---  | --- |
| 0.226010         | 24.50         | 10.0         | 53            | 28.1         | ---  | --- |
| 0.500000         | 22.40         | 10.0         | 46            | 23.6         | ---  | --- |
| 0.960000         | 21.90         | 10.0         | 46            | 24.1         | ---  | --- |
| 1.684000         | 25.30         | 10.1         | 46            | 20.7         | ---  | --- |
| 3.800000         | 22.20         | 10.3         | 46            | 23.8         | ---  | --- |
| 15.784000        | 25.30         | 11.4         | 50            | 24.7         | ---  | --- |
| 16.052000        | 27.60         | 11.4         | 50            | 22.4         | ---  | --- |
| 16.572000        | 27.10         | 11.5         | 50            | 22.9         | ---  | --- |

## 4.2 Radiated Emission Test

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

### -For measurement below 1 GHz

Limit Apply to : FCC PART 15 Subpart B Class B

Detector : Quasi-Peak (6 dB Bandwidth: 120 kHz)

Operation Mode : Data mode

Temperature : 19.7 °C

Humidity Level : 33.1 %

Test Date : April 02, 2013

| Frequency (MHz) | Reading (dBUV) | Polarity (H/V) | Antenna Height (m) | Correction Factor |            | Limit (dBUV/m) | Level (dBUV/m) | Margin (dB) |
|-----------------|----------------|----------------|--------------------|-------------------|------------|----------------|----------------|-------------|
|                 |                |                |                    | Antenna (dB/m)    | Cable (dB) |                |                |             |
| 46.000          | 10.44          | V              | 1.0                | 12.42             | 3.54       | 40.0           | 26.4           | 13.6        |
| 47.300          | 11.14          | V              | 1.1                | 12.41             | 3.55       | 40.0           | 27.1           | 12.9        |
| 58.100          | 12.46          | V              | 1.0                | 11.91             | 3.62       | 40.0           | 28.0           | 12.0        |
| 77.200          | 14.60          | V              | 1.0                | 8.75              | 3.75       | 40.0           | 27.1           | 12.9        |
| 104.700         | 15.29          | V              | 1.0                | 9.82              | 3.89       | 43.5           | 29.0           | 14.5        |
| 145.500         | 7.48           | V              | 1.0                | 12.84             | 4.08       | 43.5           | 24.4           | 19.1        |

※ **NOTE:**

1. The worst-case emissions are reported.

**-For measurement above 1 GHz**

Limit Apply to : FCC PART 15 Subpart B Class B

Detector : Peak mode: Peak (RBW: 1 MHz, VBW: 1 MHz)  
 : Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)

Operation Mode : Data mode

Temperature : 20.4 °C

Humidity Level : 34.2 %

Test Date : April 03, 2013

| Frequency<br>(GHz) | Peak                    |                         |                | POL | Average                 |                         |                |
|--------------------|-------------------------|-------------------------|----------------|-----|-------------------------|-------------------------|----------------|
|                    | Total<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Margin<br>(dB) |     | Total<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Margin<br>(dB) |
| 1.8921             | 49.90                   | 74                      | 24.1           | V   | 39.40                   | 54                      | 14.6           |
| 4.9977             | 51.90                   | 74                      | 22.1           | V   | 41.20                   | 54                      | 12.8           |

**※ NOTE:**

1. The worst-case emissions are reported.
2. Measurement above 1 GHz was performed from 1 GHz to the 5<sup>th</sup> harmonic of highest fundamental frequency. Test was measured by 12 GHz.



## 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 dB $\mu$ V is obtained. The antenna factor of 7.4 dB/m and a cable factor of 1.1 dB are added. The 30 dB $\mu$ V/m value is mathematically converted to its corresponding level in  $\mu$ V/m.

$$FS = 21.5 + 7.4 + 1.1 = 30 \text{ dB}\mu\text{V/m}$$

### [Radiated Emission Limits]

| Frequency of Emission<br>(MHz) | Field Strength |              |
|--------------------------------|----------------|--------------|
|                                | $\mu$ V/m      | dB $\mu$ V/m |
| 30 to 88                       | 100            | 40.0         |
| 88 to 216                      | 150            | 43.5         |
| 216 to 960                     | 200            | 46.0         |
| Above 960                      | 500            | 54.0         |

## 6. TEST EQUIPMENT

| <u>Type</u>   | <u>Manufacturer</u> | <u>Model Name</u> | <u>Serial Number</u> | <u>Calibration Cycle</u> | <u>Next CAL Date</u> |
|---|---------------------|-------------------|----------------------|--------------------------|----------------------|
| <b><u>Conducted Emission</u></b>                      |                     |                   |                      |                          |                      |
| <input checked="" type="checkbox"/> EMI Test Receiver | Rohde & Schwarz     | ESCI              | 100584               | 1 year                   | 2013.05.02           |
| <input type="checkbox"/> EMI Test Receiver            | Rohde & Schwarz     | ESCI              | 100033               | 1 year                   | 2013.06.18           |
| <input type="checkbox"/> LISN                         | Rohde & Schwarz     | ESH3-Z5           | 100282               | 1 year                   | 2013.07.04           |
| <input checked="" type="checkbox"/> LISN              | EMCO                | 3816/2SH          | 9706-1070            | 1 year                   | 2013.05.02           |
| <input checked="" type="checkbox"/> LISN              | Rohde & Schwarz     | ENV216            | 100073               | 1 year                   | 2014.02.06           |
| <input type="checkbox"/> Attenuator                   | Rohde & Schwarz     | ESH3-Z2           | 357.8810.352         | 1 year                   | 2013.07.31           |
| <b><u>Radiated Emission</u></b>                       |                     |                   |                      |                          |                      |
| <input type="checkbox"/> EMI Test Receiver            | Rohde & Schwarz     | ESU26             | 100241               | 1 year                   | 2013.07.30           |
| <input type="checkbox"/> Antenna master               | INNCO Systems       | MA4000-EP         | MA4000/283           | N/A                      | -                    |
| <input type="checkbox"/> Turn Table                   | INNCO Systems       | DT3000-3T         | DT3000/69            | N/A                      | -                    |
| <input checked="" type="checkbox"/> EMI Test Receiver | Rohde & Schwarz     | ESI40             | 831564103            | 1 year                   | 2013.05.03           |
| <input checked="" type="checkbox"/> Antenna master    | HD GmbH             | MA240             | 240/520              | N/A                      | -                    |
| <input checked="" type="checkbox"/> Turn Table        | HD GmbH             | 2090              | 9702/1224            | N/A                      | -                    |
| <input type="checkbox"/> Trilog Antenna               | Schwarzbeck         | VULB9160          | 3125                 | 2 year                   | 2013.05.03           |
| <input checked="" type="checkbox"/> Trilog Antenna    | Schwarzbeck         | VULB9160          | 3301                 | 2 year                   | 2014.12.17           |
| <input type="checkbox"/> Horn Antenna                 | Schwarzbeck         | BBHA 9120D        | 147                  | 2 year                   | 2013.05.15           |
| <input type="checkbox"/> Horn Antenna                 | Schwarzbeck         | BBHA 9120D        | 937                  | 2 year                   | 2013.10.17           |
| <input checked="" type="checkbox"/> Horn Antenna      | Schwarzbeck         | BBHA 9120D        | 296                  | 2 year                   | 2014.12.13           |
| <input checked="" type="checkbox"/> Power Amplifier   | Rohde & Schwarz     | SCU-18            | 10094                | 1 year                   | 2013.09.11           |

## **7. CONCLUSION**

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The data collected shows that the **EUT type: GSM/WCDMA Phone with Bluetooth3.0, WIFI802.11 b/g/n, Model: LG-E440g, FCC ID: ZNFE440G** complies with §15.107 and §15.109 of the FCC rules.