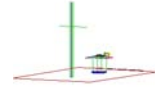




# PCTEST ENGINEERING LABORATORY, INC.

7185 Oakland Mills Road, Columbia, MD 21046 USA  
Tel. 410.290.6652 / Fax 410.290.6654  
http://www.pctestlab.com



## MEASUREMENT REPORT FCC Part 15.225 NFC

**Applicant Name:**  
LG Electronics MobileComm U.S.A  
1000 Sylvan Avenue  
Englewood Cliffs, NJ 07632  
United States

**Date of Testing:**  
5/06 - 5/28/2014  
**Test Site/Location:**  
PCTEST Lab, Columbia, MD, USA  
**Test Report Serial No.:**  
0Y1405070950.ZNF


<b>FCC ID:</b>	<b>ZNFD851</b>
<b>APPLICANT:</b>	<b>LG Electronics MobileComm U.S.A</b>

**Application Type:** Class II Permissive Change  
**Model(s):** LG-D851, LGD851, D851  
**EUT Type:** Portable Handset  
**Frequency:** 13.56MHz  
**FCC Classification:** Low Power Communications Device Transmitter (DXX)  
**FCC Rule Part(s):** FCC Part 15 Subpart C (15.225)  
**Test Procedure(s):** ANSI C63.10-2009, KDB 648474 D03 v01r02  
**Class II Permissive Change:** Please see FCC change document  
**Original Grant Date:** 5/19/2014

The device bearing the FCC Identifier specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and has been tested in accordance with the measurement procedures specified in ANSI C63.10-2009 (See Test Report). These measurements were performed with no deviation from the standards. Test results reported herein relate only to the item(s) tested.



I authorize and 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.

*NVLAP accreditation does not constitute any product endorsement by NVLAP or any agency of the United States Government. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.*





Randy Ortanez  
President

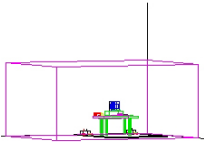


<b>FCC ID:</b> ZNFD851		<b>FCC Pt. 15.225 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1405070950.ZNF	<b>Test Date(s):</b> 5/06 - 5/28/2014	<b>EUT Type:</b> Portable Handset	Page 1 of 17	

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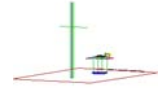
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# MEASUREMENT REPORT

## FCC Part 15.225

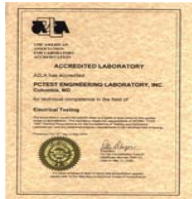


### § 2.1033 General Information

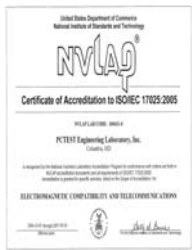
**APPLICANT:** LG Electronics MobileComm U.S.A  
**APPLICANT ADDRESS:** 1000 Sylvan Avenue  
 Englewood Cliffs, NJ 07632  
 United States  
**TEST SITE:** PCTEST ENGINEERING LABORATORY, INC.  
**TEST SITE ADDRESS:** 7185 Oakland Mills Road, Columbia, MD 21046 USA  
**FCC RULE PART(S):** Part 15 Subpart C (15.225)  
**BASE MODEL:** LG-D851  
**FCC ID:** ZNFD851  
**FCC CLASSIFICATION:** Low Power Communications Device Transmitter (DXX)  
**Test Device Serial No.:** NFC  Production  Pre-Production  Engineering  
**DATE(S) OF TEST:** 5/06 - 5/28/2014  
**TEST REPORT S/N:** OY1405070950.ZNF



### Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21046, U.S.A.



- PCTEST facility is an FCC registered (PCTEST Reg. No. 159966) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (2451B-1).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (2451B-1) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EvDO wireless devices and for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.



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# 1.0 INTRODUCTION

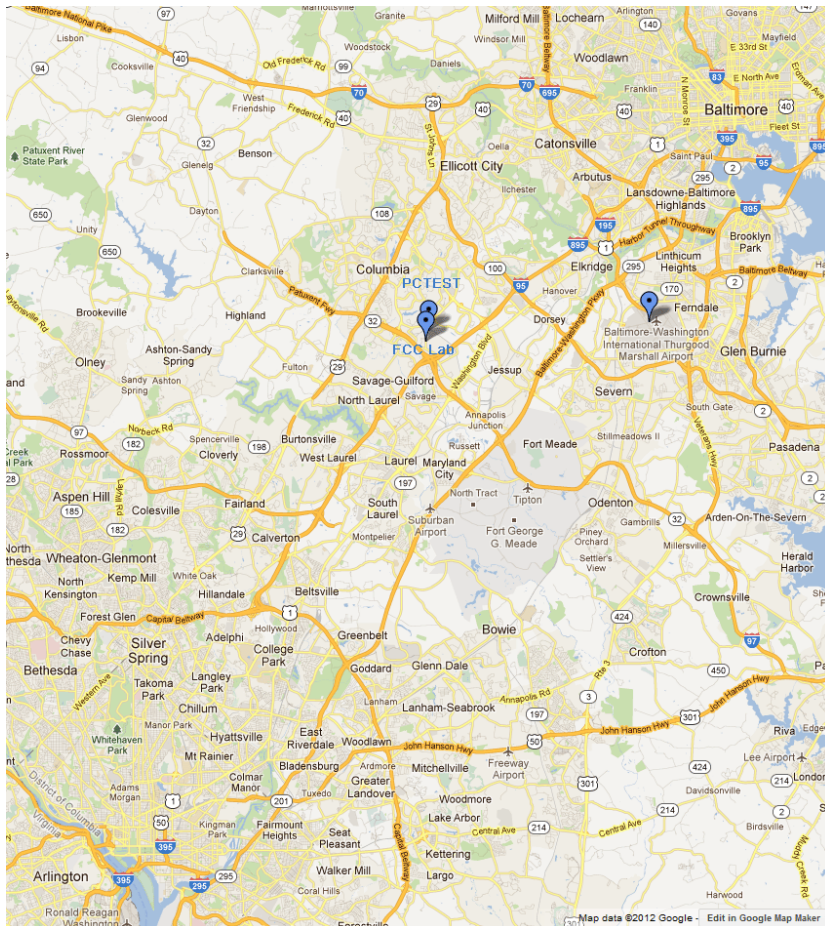
## 1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.



## 1.2 PCTEST Test Location

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity, the Baltimore-Washington Intern't'l (BWI) airport, the city of Baltimore and the Washington, DC area. (See **Figure 1-1**).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The site coordinates are 39° 10'23" N latitude and 76° 49'50" W longitude. The facility is 0.4 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on February 15, 2012.



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

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## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Handset FCC ID: ZNFD851**. The test data contained in this report pertains only to the emissions due to the NFC transmitter of the EUT.

### 2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-Band LTE, 802.11b/g/n WLAN, 802.11a/n/ac UNII, Bluetooth (1x, EDR, LE), NFC

### 2.3 Test Configuration

The LG Portable Handset FCC ID: ZNFD851 was set to continuously transmit at 13.56MHz. This was performed using manufacturer software loaded on the phone and a passive RFID tag to allow for continuous transmission. This device was tested in accordance with the guidance of ANSI C63.10-2009. See Sections 3.2 of this test report for a description of the emissions test setups, respectively. Additional emissions testing were performed per KDB 648474 D03 and the additional worst case emissions are reported herein and identified as WCC.

Per KDB 648474 D03, spurious emissions measurement data was also investigated with the wireless charging battery cover. The handset was placed on the representative charging pad under normal conditions and in a simulated call configuration. Only worst case emissions are shown in this report.



### 2.4 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

### 2.5 Labeling Requirements

Per 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

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## 3.0 DESCRIPTION OF TEST

### 3.1 Evaluation Procedure

The measurement procedure described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2009) was used in the measurement of the **LG Portable Handset FCC ID: ZNFD851**.



Deviation from measurement procedure.....None

### 3.2 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Clause 5, Figure 5.7 of ANSI C63.4-2009. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An ETS Lindgren Model 2188 raised turntable is used for radiated measurement. It is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. A 78cm high PVC support structure is placed on top of the turntable. A 3/4" (~1.9cm) sheet of high density polyethylene is used as the table top and is placed on top of the PVC supports to bring the total height of the table to 80cm.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. 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 test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. For the EUT positioning, "H" is defined with the EUT lying flat on the test surface, "H2" is defined with the EUT standing up on its side, and "V" is defined with the EUT standing upright.

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## 4.0 ANTENNA REQUIREMENTS



**Excerpt from §15.203 of the FCC Rules/Regulations:**

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party 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 the provisions of this section.”

- The antenna of the LG Portable Handset are **permanently attached**.
- There are no provisions for connection to an external antenna.
- This unit was tested with its standard battery.

**Conclusion:**

The **LG Portable Handset FCC ID: ZNFD851** unit complies with the requirement of §15.203.

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## 5.0 SAMPLE CALCULATIONS

### 5.1 Conducted Emission Measurement Sample Calculation

@ 20.3 MHz

**Class B limit** = 60.0 dB $\mu$ V (Quasi-peak limit)  
 Reading = - 57.8 dBm (calibrated quasi-peak level)  
 Convert to dB $\mu$ V = - 57.8 + 107 = 49.2 dB $\mu$ V  
  
 Margin = 49.2 - 60.0 = - 10.8 dB  
 = **10.8 dB below limit**



### 5.2 Radiated Emission Measurement Sample Calculation

@ 66.7 MHz

**Class B limit** = 100  $\mu$ V/m = 40.0 dB $\mu$ V/m  
 Reading = - 76.0 dBm (calibrated level)  
 Convert to dB $\mu$ V = - 76.0 + 107 = 31.0 dB $\mu$ V  
 Antenna Factor + Cable Loss = 5.8 dB/m  
 Total = 36.8 dB $\mu$ V/m  
  
 Margin = 36.8 - 40.0 = - 3.2 dB  
 = **3.2 dB below limit**

**Note:**

Level [dB $\mu$ V] = 20 log<sub>10</sub> (Level [ $\mu$ V/m])  
 Level [dB $\mu$ V] = Level [dBm] + 107

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## 6.0 TEST EQUIPMENT CALIBRATION DATA



Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	RE1	Radiated Emissions Cable Set (UHF/EHF)	3/25/2014	Annual	3/25/2015	N/A
Agilent	8447D	Broadband Amplifier	5/31/2013	Annual	5/31/2014	2443A01900
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	6/26/2013	Annual	6/26/2014	121034
Emco	6502	Active Loop Antenna (10k - 30 MHz)	5/31/2012	Biennial	5/31/2014	267
Espec	ESX-2CA	Environmental Chamber	4/16/2014	Annual	4/16/2015	17620
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	1/27/2014	Annual	1/27/2015	100342
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	1/28/2014	Biennial	1/28/2016	A051107

**Table 6-1. Annual Test Equipment Calibration Schedule**

**Note:**

For equipment listed above that has a calibration due date that falls within the test date range, care was taken to ensure that this equipment was utilized prior to the calibration due date.



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## 7.0 ENVIRONMENTAL CONDITIONS

The temperature is controlled within range of 15°C to 35°C.

The relative humidity is controlled within range of 10% to 75%.

The atmospheric pressure is controlled within the range 86-106kPa (860-1060mbar).

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## 8.0 TEST DATA

### 8.1 Summary



Company Name: LG Electronics MobileComm U.S.A  
 FCC ID: ZNFD851  
 FCC Classification: Low Power Communications Device Transmitter (DXX)  
 Frequencies Examined: 13.56MHz

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
<b>TRANSMITTER MODE (Tx)</b>					
15.225 (a)(b)(c)	In-Band Emissions	15,848 $\mu$ V/m @ 30m 13.553 – 13.567 MHz  334 $\mu$ V/m @ 30m 13.410 – 13.553 MHz 13.567 – 13.710 MHz  106 $\mu$ V/m @ 30m 13.110 – 13.410 MHz 13.710 – 14.010 MHz	RADIATED	PASS	Section 8.2
15.225 (d) 15.209	Out-of-Band Emissions	Emissions outside of the specified band (13.110 – 14.010 MHz) must meet the radiated limits detailed in 15.209		PASS	Section 8.3

**Table 8-1. Summary of Test Results**

**Note:**

This unit was tested with its standard battery.

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## 8.2 In-Band Radiated Spurious Emission Measurements §15.225(a)(b)(c)

Radiated emission testing was performed in the band 13.110 – 14.010 MHz.

Frequency: 13.56MHz



Measurement Distance: 3 Meters

Frequency [MHz]	Antenna Position	EUT Pol. [H/H2/V]	Level [dBm]	AFCL [dB/m]	3m Field Strength [dBµV/m]	30m Field Strength [dBµV/m]	Limit [µV/m]	Limit [dBµV/m]	Margin [dB]
13.140	Y	V	-91.12	14.41	30.29	-9.71	106.00	40.51	-50.21
13.340	Y	V	-86.82	14.40	34.58	-5.42	106.00	40.51	-45.92
13.460	Y	V	-83.99	14.40	37.41	-2.59	334.00	50.47	-53.06
13.560	Y	V	-73.60	14.40	47.80	7.80	15848.00	84.00	-76.20
13.670	Y	V	-84.36	14.39	37.03	-2.97	334.00	50.47	-53.44
13.770	Y	V	-87.56	14.39	33.83	-6.17	106.00	40.51	-46.68
13.980	Y	V	-90.65	14.38	30.73	-9.27	106.00	40.51	-49.77

**Table 8-2. In-Band Radiated Measurements**

### NOTES:

- All measurements were performed using a loop antenna. The antenna was positioned in three orthogonal positions (X front, Y side, Z top) and the position with the highest emission level was recorded.
- The EUT was positioned in three orthogonal planes to determine the orientation resulting in the worst case emissions.
- Measurements were performed at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2). Extrapolation Factor =  $20 \log_{10}(30/3)^2 = 40\text{dB}$ .
- The spectrum was investigated from 9kHz up to 30MHz using the loop antenna. Only the emissions shown in the table above were found to be significant.
- All measurements were recorded using a spectrum analyzer employing a quasi-peak detector.
- Field Strength Level  $_{[\text{dB}\mu\text{V}/\text{m}]}$  = Analyzer Level  $_{[\text{dBm}]} + 107 + \text{AFCL}$   $_{[\text{dB}/\text{m}]}$
- AFCL  $_{[\text{dB}/\text{m}]}$  = Antenna Factor  $_{[\text{dB}/\text{m}]} + \text{Cable Loss}$   $_{[\text{dB}]}$
- Margin  $_{[\text{dB}]}$  = Field Strength Level  $_{[\text{dB}\mu\text{V}/\text{m}]} - \text{Limit}$   $_{[\text{dB}\mu\text{V}/\text{m}]}$

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## In-Band Radiated Spurious Emission Measurements with WCC §15.225(a)(b)(c)

Radiated emission testing was performed in the band 13.110 – 14.010 MHz.

Frequency: 13.56MHz



Measurement Distance: 3 Meters

Frequency [MHz]	Antenna Position	EUT Pol. [H/H2/V]	Level [dBm]	AFCL [dB/m]	3m Field Strength [dBµV/m]	30m Field Strength [dBµV/m]	Limit [µV/m]	Limit [dBµV/m]	Margin [dB]
13.140	Y	V	-91.45	14.41	29.96	-10.04	106.00	40.51	-50.54
13.340	Y	V	-87.31	14.40	34.09	-5.91	106.00	40.51	-46.41
13.460	Y	V	-84.09	14.40	37.31	-2.69	334.00	50.47	-53.16
13.560	Y	V	-75.62	14.40	45.78	5.78	15848.00	84.00	-78.22
13.670	Y	V	-83.19	14.39	38.20	-1.80	334.00	50.47	-52.27
13.770	Y	V	-88.04	14.39	33.35	-6.65	106.00	40.51	-47.16
13.980	Y	V	-90.71	14.38	30.67	-9.33	106.00	40.51	-49.83

**Table 8-3. In-Band Radiated Measurements with WCC**

### NOTES:

9. All measurements were performed using a loop antenna. The antenna was positioned in three orthogonal positions (X front, Y side, Z top) and the position with the highest emission level was recorded.
10. The EUT was positioned in three orthogonal planes to determine the orientation resulting in the worst case emissions.
11. Measurements were performed at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2). Extrapolation Factor =  $20 \log_{10}(30/3)^2 = 40\text{dB}$ .
12. The spectrum was investigated from 9kHz up to 30MHz using the loop antenna. Only the emissions shown in the table above were found to be significant.
13. All measurements were recorded using a spectrum analyzer employing a quasi-peak detector.
14. Field Strength Level  $_{[\text{dB}\mu\text{V}/\text{m}]}$  = Analyzer Level  $_{[\text{dBm}]} + 107 + \text{AFCL}$   $_{[\text{dB}/\text{m}]}$
15. AFCL  $_{[\text{dB}/\text{m}]}$  = Antenna Factor  $_{[\text{dB}/\text{m}]} + \text{Cable Loss}$   $_{[\text{dB}]}$
16. Margin  $_{[\text{dB}]}$  = Field Strength Level  $_{[\text{dB}\mu\text{V}/\text{m}]} - \text{Limit}$   $_{[\text{dB}\mu\text{V}/\text{m}]}$

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### 8.3 Radiated Spurious Emission Measurements, Out-of-Band §15.209 §15.225(d)



The EUT was tested from 9kHz up to the 1GHz excluding the band 13.110 – 14.010 MHz. All measurements up to 960MHz were recorded with a spectrum analyzer employing a quasi-peak detector. All out-of-band emissions must not exceed the limits shown in Table 8-4 per Section 15.209. A loop antenna was used to investigate emissions below 30MHz.

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

**Table 8-4. Radiated Limits – Out of band**

#### Sample Calculation

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] – Limit [dBμV/m]

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## Radiated Spurious Emission Measurements, Out-of-Band §15.209 §15.225(d)

Tx Frequency 13.56MHz



Measurement Distance: 3 Meters

Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	Level [dBm]	AFCL [dB/m]	3m Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
27.12	X	H2	-90.11	12.99	29.88	69.54	-39.66
40.68	H	H2	-77.07	14.47	18.61	32.04	-13.44
54.24	H	H2	-77.51	8.59	12.33	32.04	-19.71
67.80	H	H2	-76.99	8.79	13.15	32.04	-18.89
81.36	H	H2	-78.01	8.55	11.88	32.04	-20.16
94.92	H	H2	-77.37	9.98	13.92	32.77	-18.85
108.48	H	H2	-77.29	13.25	17.25	32.77	-15.53

**Table 8-5. Radiated Measurements**

### NOTES:

1. All measurements were recorded using a spectrum analyzer employing a quasi-peak detector for emissions below 960MHz.
2. Both Vertical and Horizontal polarities of the receive antenna were evaluated with the worst case emissions being reported. Below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. The EUT was positioned in three orthogonal planes to determine the orientation resulting in the worst case emissions.
4. The spectrum is measured from 9kHz to the 10<sup>th</sup> harmonic and the worst-case emissions are reported.
5. No spurious emissions levels were found to be greater than the level of the fundamental.

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## Radiated Spurious Emission Measurements, Out-of-Band with WCC §15.209 §15.225(d)

Tx Frequency 13.56MHz



Measurement Distance: 3 Meters

Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	Level [dBm]	AFCL [dB/m]	3m Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
27.12	X	H2	-90.67	12.99	29.32	69.54	-40.22
40.68	H	H2	-77.64	14.47	18.04	32.04	-14.01
54.24	H	H2	-77.98	8.59	11.86	32.04	-20.18
67.80	H	H2	-76.47	8.79	13.67	32.04	-18.37
81.36	H	H2	-77.68	8.55	12.21	32.04	-19.83
94.92	H	H2	-77.83	9.98	13.46	32.77	-19.31
108.48	H	H2	-77.42	13.25	17.12	32.77	-15.66

**Table 8-6. Radiated Measurements with WCC**

### NOTES:



1. All measurements were recorded using a spectrum analyzer employing a quasi-peak detector for emissions below 960MHz.
2. Both Vertical and Horizontal polarities of the receive antenna were evaluated with the worst case emissions being reported. Below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. The EUT was positioned in three orthogonal planes to determine the orientation resulting in the worst case emissions.
4. The spectrum is measured from 9kHz to the 10<sup>th</sup> harmonic and the worst-case emissions are reported.
5. No spurious emissions levels were found to be greater than the level of the fundamental.

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## 9.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LG Portable Handset FCC ID: ZNFD851** has been tested to show compliance with the requirements specified in §15.225 of the FCC Rules.

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